



**UNITED KINGDOM**

**FREQUENCY ALLOCATION TABLE**

**2013**

Issue No. 17

Including  
The International Telecommunication Union Table of Frequency  
Allocations contained in the current Radio Regulations

Issued by the National Frequency Planning Group on behalf  
of the Committee on UK Spectrum Strategy



# **PREFACE**

## **GENERAL NOTES**

### **1. Introduction.**

- 1.1 The UK FAT details the uses to which various frequency bands are put in the UK (referred to as 'allocations') and which bodies are responsible for planning and managing them, including making frequency assignments to individual users or installations at particular locations. It also shows the internationally agreed spectrum allocations of the International Telecommunication Union.
- 1.2. Radio use in the UK is required to be authorised by Ofcom under the Wireless Telegraphy Act 2006 and needs to be carefully planned to avoid harmful interference. Crown bodies such as government departments do not legally require authorisation from Ofcom but the working arrangements set out in the Table have been put in place to coordinate their use with that authorised by Ofcom.

### **2. Contents**

2.1 The attached Table comprises:-

- a. On the even numbered pages (left hand side), the United Kingdom Frequency Allocation Table<sup>1</sup> approved by the National Frequency Planning Group (NFPG).
- b. On the odd numbered pages (right hand side), the International Telecommunication Union (ITU) Table of Frequency Allocations<sup>1</sup> and its footnotes related to United Kingdom use contained in the current ITU Radio Regulations.
- c. The following Annexes –
  - Annex A Frequency bands designated for Industrial, Scientific and Medical use
  - Annex B Short Range Devices
  - Annex C Frequency sharing arrangements between civil land mobile and military services in the band 410-450 MHz
  - Annex D The protection of frequencies for Radio Astronomy
  - Annex E Frequencies for the operation of Sonobuoys
  - Annex F Frequencies for the Amateur and Amateur Satellite services
  - Annex G Frequencies for distress and safety, search and rescue and emergencies
  - Annex H Spectrum available for use in Programme Making and Special Events
  - Annex I Spectrum available for Emergency Services use

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<sup>1</sup> Throughout the following notes the International Telecommunication Union Table of Frequency Allocations is described as the "International Table" and the United Kingdom Frequency Allocation Table is described as the UK Table.

Annex J	Spectrum available for Power Line Carrier systems
Annex K	Memorandums of Understanding and Agreements

### **3. Amendments**

- 3.1 The International Table is amended whenever necessary to accord with any changes to the Radio Regulations made by World Radiocommunication Conferences of the ITU.
- 3.2 The UK Table is amended as a result of NFPG approval of Departmental proposals, recommendations made by the Group's Drafting Panel, the application of European frequency decisions, or of changes in Ofcom licensing policy.

### **4. Basic Provisions**

- 4.1 Direct references have been made within the UK Table to those footnotes to the International Table which apply without qualification to the United Kingdom radio services or frequency bands concerned. Additional references have been made in footnotes to the UK Table to those International footnotes which have limited application in the United Kingdom. All remaining International footnotes not specifically mentioned in the Table or in footnotes thereto do not therefore apply in the United Kingdom.
- 4.2 The UK Table thus qualifies the provisions of the International Table; it makes additional provisions for domestic frequency requirements which have no place in the International Table; and it provides the framework within which frequency assignments are to be made for all services. The provisions of the UK Table shall therefore be applied to all radio services, civil and military, transmitting or receiving within the territory or territorial waters<sup>2</sup> of the United Kingdom of Great Britain and Northern Ireland including the Channel Islands and the Isle of Man.
- 4.3 Where the provisions of the International Table and the UK Table differ, those of the latter will apply.
- 4.4 The frequency requirements of radio services or equipment, except for those mentioned in footnote UK9 or covered in section 5 below, to be developed or operated other than in accordance with the UK Table are first to be submitted for the approval of the National Frequency Planning Group.

### **5. Uses of spectrum**

- 5.1. This document does not represent all uses of spectrum that are authorised in the UK or that may be authorised in future. The conditions that are attached to the use of different frequency bands are set out in licences issued by Ofcom, and/or in regulations made by Ofcom, where such use falls to be authorised under the Wireless Telegraphy Act. Ofcom may, having consulted as it considers appropriate, vary existing conditions of use, and may issue new authorisations, under powers granted to it by Parliament, and in accordance with the requirements of European and UK law. This document is therefore not binding on Ofcom but Ofcom will take due note of its contents and consult where necessary during the discharge of its statutory duties.

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<sup>2</sup> This is to include the areas designated as part of the United Kingdom Extended Economic Zone.

5.2 Readers should be aware of the following in particular:

- a) Authorisations issued by Ofcom may be varied to make their conditions less restrictive as to the use that may be made of spectrum. In reaching decisions on such variations, Ofcom will consider its relevant statutory duties and consult as necessary where these impinge on or materially impact the Frequency Allocation Tables.
- b) In certain frequency bands, the UK is committed to the terms of an EU Directive or Decision which may specify usage in a way that does not correlate precisely with ITU-defined service definitions (eg an EU Decision may require spectrum to be made available for “Electronic Communications Services” – an allocation to fixed and mobile services is likely to cover many applications but not necessarily all). Where specific European Decisions apply, a specific EU footnote referencing the relevant Decision generally appears.
- c) Many authorisations issued by Ofcom specify minimum technical (and if relevant operational) constraints but are otherwise on a technology- and service-neutral basis. The frequency bands to which such authorisations relate are identified, where possible, by a specific footnote.
- d) Where statutory regulations are in place to exempt radio systems from the need for a licence (licence exempt), these regulations take precedence over the detail shown in this Table.

## 6. Recognised Spectrum Access (RSA)

- 6.1. **What is RSA?** RSA is a spectrum instrument that was introduced by the Communications Act 2003 to complement wireless telegraphy licences. The relevant provisions are now consolidated in the Wireless Telegraphy Act 2006. Grant of RSA has two consequences. First, it formalises recognition of the use and places Ofcom under an express duty to take account of it in a similar way as a licensed application. Second, a grant of RSA may be traded by the holder and converted into a WT licence in accordance with regulations made by Ofcom.
- 6.2. **Who may be granted RSA?** RSA may be granted in relation to any service that does not require a licence from Ofcom in frequency bands that have been specified in regulations made by Ofcom. For example, Government departments, being Crown bodies, are not bound by the Wireless Telegraphy Act and so are not licensed by Ofcom; and passive services such as radio astronomy (see Annex D), are automatically exempted from licensing as they cannot cause interference to others.
- 6.3. **Where may further details be found?** The frequency bands in which RSA may be granted are set out in the UK Plan for Frequency Authorisation; grants of tradable RSA are listed in the Wireless Telegraphy Register; and trades involving RSA are recorded in the Transfer Notification Register. All of these are maintained and published by Ofcom.

## **EDITORIAL NOTES**

### **7. CONVENTIONS**

7.1 The following conventions are employed in the Tables -

- a Where in both the International Table and the UK Table a frequency band is allocated to more than one radio service, the names of such services are listed in the following order:-
  - (i) PRIMARY services - printed in capitals;
  - (ii) SECONDARY services - printed in lower case.
- b In addition to the above, where a frequency band is allocated to two or more services of equal status, the names of such services are listed in alphabetical order according to the French language. This order of listing does not confer any precedence upon radio services which are of equal status.

### **8. FOOTNOTES**

8.1 Where footnotes are employed the following rules apply -

- a Where a footnote is printed on the same line as the name of a radio service the footnote applies only to that service.
- b Where a footnote is printed within the lower part of a frequency band and not on the same line as a radio service, the footnote applies to that band or some part thereof.
- c Footnotes in the International Table are identified in and below that Table by a number, eg '5.12'. Where references are made in or below the UK Table to these International footnotes, they are similarly identified.
- d Footnotes to the UK Table are identified by the prefix 'UK' - eg 'UK34'. To avoid unnecessary repetition, numbers UK1 to UK13 have been reserved for footnotes that are employed repeatedly; those footnotes are listed on page 5.
- e European Commission Decisions that the implementation of which is mandatory to all Member States are identified by the prefix 'EU'.

### **9. ABBREVIATIONS**

9.1 A list of abbreviations used in the UK Table is on page 8.

## FOOTNOTES TO THE UK TABLE

The generic footnotes appearing in the UK FAT are listed below. Footnotes UK3, UK4 and UK5 have been given individual decimal indicators within the FAT because the comments tend to vary with the band within which they appear.

- UK1 Except by special agreement having the approval of the NFPG this frequency band, or the allocation to this radio service, is reserved exclusively for **CIVIL** use in accordance with 'Allocation to Services' (See amplifying Note A below).
- UK2 Except by special agreement having the approval of the NFPG this frequency band, or the allocation to this radio service, is reserved exclusively for **MILITARY** use in accordance with the 'Allocation to Services' (See amplifying Note A).
- UK3 Responsibility for assigning frequencies in this band in accordance with the Allocation to Services rests with Ofcom and the Scottish Government for emergency services (See Amplifying Note C and Annex I).
- UK4 Responsibility for assigning frequencies **in this band** in accordance with the Allocation to Services is as follows: (See amplifying Note B below).
- UK5 Responsibility for assigning frequencies **to this service** in accordance with the Allocation to Services is as follows: (See amplifying Notes A and B below).
- UK6 Industrial, scientific and medical (ISM) applications are designated for use in this band. The conditions of use are contained at Annex A.
- UK7 The conditions of use by the Amateur and/or Amateur-Satellite services in this band are contained in Annex F.
- UK8 Details the Memoranda of Understanding (MoUs) and Agreements entered into by Ofcom relating to cross-border radio frequency coordination and the management of interference are contained at Annex K.
- UK9 The Ministry of Defence requires at times to activate stations of the land mobile service, employing low power for voice communications, in the range 1.5-30.0 MHz. Temporary assignments will be negotiated directly with Ofcom and the Departments concerned or likely to be affected. **In certain bands however this general but qualified agreement to MILITARY out-of-band usage cannot be permitted. These bands are annotated UK9.**
- UK10 Specific details of frequency bands, observatories and protective measures applicable to the radio astronomy service are contained in Annex D.
- UK11 Specific details of frequency bands available for low power devices exempt from licensing are contained in Annex B. Please note that in addition to this footnote Ultra wide-band (UWB) equipment is also authorised to transmit in most frequency bands, as mandated by European Commission Decisions 2007/131/EC and 2009/343/EC. Due to the wide-band nature of the devices they permitted to operate across most frequency bands and for this reason we have not included them in the footnotes.
- UK12 Specific details of frequencies for Distress and Safety, Search and Rescue and Emergencies are contained in Annex G.

UK13 Specific details of frequency bands available for Power Line Carrier systems are contained in Annex J.

## **AMPLIFYING NOTES**

A In all frequency bands not allocated exclusively for CIVIL or MILITARY use, and thus not annotated UK1 or UK2, civil and military services to be operated in accordance with the Allocation to Services have equal rights of access to the bands, and where appropriate assignments for such services shall be made by joint planning among the Departments/Agencies concerned. Since this is a general convention applicable to all of these shared bands, this has been done by means of appropriate notes in the UK Table.

B In all cases where Footnotes UK4 or UK5 are applied in the body of the UK Table, the Departments/Agencies responsible for planning frequency assignments (either for a particular band or for a particular radio service) are named in column 2 of the UK Table, for example:

UK4 71.7 - 72.8 MHz – Ofcom.

UK5 153.5 - 154.0 MHz - MoD (for the mobile service).

Footnotes UK4 and UK5 are not applied against the frequency bands exclusively allocated to the broadcasting service nor against allocations to this service in shared bands. In these cases responsibility for the planning of frequency assignments for the broadcasting service rests with Ofcom.

C In all cases where Footnote UK3 is applied in the body of the UK Table, responsibility for planning frequency assignments for the emergency services (for a particular band) rests with:

- (i) Ofcom (for England, Wales, Northern Ireland, Isle of Man and the Channel Isles)
- (ii) The Scottish Government, Safer Communities, Scottish Resilience (for Scotland).

Specific details of frequency bands available for use by the Emergency Services are contained in Annex I.

## **Contact Point.**

The UK FAT is produced by Ofcom on behalf of the Committee on UK Spectrum Strategy. Further information arising from this publication should be addressed to:

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## ABBREVIATIONS USED IN THE TABLE

CAA	Civil Aviation Authority
CEPT	European Conference of Postal and Telecommunications Administrations
CLFST	Cambridge Low Frequency Synthesis Telescope
CW	Continuous Wave
dBW	Decibels relative to one Watt
DAP	Directorate of Airspace Policy (of the Civil Aviation Authority)
DDR	Digital Dividend Review
DH	Department of Health
DSC	Digital Selective Calling
EMC	Electro-Magnetic Compatibility
EIRP	Equivalent Isotropically Radiated Power
EPIRB	Emergency Position-Indicating Radiobeacon
ERP	Effective Radiated Power
FM	Frequency Modulation
GCA	Ground Controlled Approach
GHz	Gigahertz
GMDSS	Global Maritime Distress and Safety System
GPS	Global Positioning System
HF	High Frequency
HMCG	Her Majesty's Coastguard
ITS	Intelligent Transport Systems.
ILS	Instrument Landing System
ISM	Industrial, Scientific and Medical
kHz	Kilohertz
MCA	Maritime and Coastguard Agency
MDM	Micro-wave Distance Measurement
MHz	Megahertz
MERLIN	Multi Element Radio Linked Interferometer Network
MoD	Ministry of Defence
MRN	Maritime Radionavigation
MSI	Maritime Safety Information
NATO	North Atlantic Treaty Organisation
NBDP	Narrow-Band Direct-Printing
NFPG	National Frequency Planning Group
NPIA	National Policing Improvement Agency
OB	Outside Broadcast
Ofcom	Office of Communications
(OR)	Aeronautical Mobile (Off Route) (Military)
(R)	Aeronautical Mobile (Route) (Civil)
PMSE	Programme Making and Special Events

PSSPG	Public Safety Spectrum Policy Group	
RARC	Regional Administrative Radio Conference	
RNLI	Royal National Lifeboat Institution	
RSA	Recognised Spectrum Access (see note 6 above)	
SAR	Search and Rescue	
SG	Scottish Government	
SRD	Short Range Device	
UWB	Ultra Wide-band	
VLBI	Very Long Baseline Interferometry	
VOR	VHF Omni directional Range	
WARC	World Administrative Radio Conference	(up to WARC 1992)
WRC	World Radiocommunication Conference	(from WRC 1995 onwards)



Allocation to United Kingdom Services	Comments
Below 8.3 kHz (not allocated) 5.53, 5.54	Bands below 8.3 kHz are not allocated within the United Kingdom.
8.3 - 9 kHz METEOROLOGICAL AIDS 5.A116 5.B116 5.C116 UK1, 43	UK43 "SPHERICS" (thunderstorm detection and location) stations are operated in the United Kingdom and overseas on a centre frequency of 9.77 kHz.
9 - 11.3 kHz METEOROLOGICAL AIDS 5.A116 RADIONAVIGATION UK1, 11, 43, EU1	UK43 "SPHERICS" (thunderstorm detection and location) stations are operated in the United Kingdom and overseas on a centre frequency of 9.77 kHz.  EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
11.3 - 14 kHz RADIONAVIGATION UK1, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
14 - 19.95 kHz FIXED MARITIME MOBILE 5.57 5.55, 5.56 UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
19.95 - 20.05 kHz STANDARD FREQUENCY AND TIME SIGNAL (20 kHz) UK1, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.

Region 1	Region 2	Region 3
Below 8.3 kHz (not allocated) 5.53 5.54		
8.3 - 9 kHz METEOROLOGICAL AIDS 5.A116 5.B116 5.C116		
9 - 11.3 kHz METEOROLOGICAL AIDS 5.A116 RADIONAVIGATION		
11.3 - 14 kHz RADIONAVIGATION		
14 - 19.95 kHz FIXED MARITIME MOBILE 5.57 5.55 5.56		
19.95 – 20.05kHz STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)		

Allocation to United Kingdom Services	Comments
<p>20·05 - 59·75 kHz</p> <p>FIXED MARITIME MOBILE 5.57</p> <p>5.56 UK2, 11, 13, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>59·75 – 60·25 kHz</p> <p>STANDARD FREQUENCY AND TIME SIGNAL (60kHz)</p> <p>5.56 UK1</p>	
<p>60·25 - 70 kHz</p> <p>FIXED MARITIME MOBILE 5.57</p> <p>5.56 UK2, 11, 13, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>70 - 72 kHz</p> <p>RADIONAVIGATION 5.60</p> <p>UK1, 11, 13, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>72 - 84 kHz</p> <p>FIXED MARITIME MOBILE 5.57 RADIO NAVIGATION 5.60</p> <p>5.56 UK2, 11, 13, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>

Region 1	Region 2	Region 3
20·05 – 70 kHz  FIXED MARITIME MOBILE    5.57  5.56    5.58		
70 - 72 kHz  RADIO-NAVIGATION    5.60	70 - 90 kHz  FIXED MARITIME MOBILE    5.57 MARITIME RADIO-NAVIGATION    5.60 Radiolocation  5.61	70 - 72 kHz  RADIO-NAVIGATION    5.57 Fixed Maritime Mobile    5.57  5.59
72 - 84 kHz  FIXED MARITIME MOBILE    5.57 RADIO-NAVIGATION    5.60  5.56		72 - 84 kHz  FIXED MARITIME MOBILE    5.57 RADIO-NAVIGATION    5.60

Allocation to United Kingdom Services	Comments
84 - 86 kHz  RADIONAVIGATION 5.60  UK1, 11, 13, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
86 - 90 kHz  FIXED MARITIME MOBILE 5.57 RADIONAVIGATION  5.56 UK2, 11, 13, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
90 - 110 kHz  RADIONAVIGATION 5.62  5.64 UK1, 11, 13, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
110 – 112 kHz  FIXED MARITIME MOBILE RADIONAVIGATION  5.64 UK2, 11, 13, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
112 - 115 kHz  RADIONAVIGATION 5.60  UK1, 11, 13, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
115 - 117.6 kHz  RADIONAVIGATION 5.60 Fixed Maritime Mobile UK5.1  5.64 UK1, 11, 13, EU1	UK5.1 115.0-117.6 kHz – MoD for the Maritime Mobile service.  EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.



Region 1	Region 2	Region 3
84 - 86 kHz RADIONAVIGATION 5.60	Cont... 70 - 90 kHz FIXED MARITIME MOBILE 5.57 MARITIME RADIO- NAVIGATION 5.60 Radiolocation	84 - 86 kHz RADIONAVIGATION 5.60 Fixed Maritime Mobile 5.57 5.59
86 - 90 kHz FIXED MARITIME MOBILE 5.57 RADIONAVIGATION 5.56	5.61	86 - 90 kHz FIXED MARITIME MOBILE 5.57 RADIONAVIGATION 5.60
90 - 110 kHz RADIONAVIGATION 5.62 Fixed 5.64		
110 – 112 kHz FIXED MARITIME MOBILE RADIONAVIGATION 5.64	110 – 130 kHz FIXED MARITIME MOBILE MARITIME RADIO- NAVIGATION 5.60 Radiolocation 5.61 5.64	110 – 112 kHz FIXED MARITIME MOBILE RADIONAVIGATION 5.60 5.64
112 – 115 kHz RADIONAVIGATION 5.60		112 – 117.6 kHz RADIONAVIGATION 5.60 Fixed Maritime Mobile 5.64 5.65
115 – 117.6 kHz RADIONAVIGATION 5.60 Fixed Maritime Mobile 5.64 5.66		

Allocation to United Kingdom Services	Comments
117·6 – 126kHz  FIXED MARITIME MOBILE RADIONAVIGATION 5.60  5.64 UK2, 11, 13, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
126 – 129 kHz  RADIONAVIGATION 5.60  UK1,11, 13, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
129 – 130 kHz  FIXED MARITIME MOBILE RADIONAVIGATION 5.60  5.64 UK1, 11, 13, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
130 – 135·7 kHz  FIXED MARITIME MOBILE  5.64 UK2, 11, 13, 14, EU1	UK14 This band may be used for land Mobile vehicle location systems on non-interference basis to maritime services.  EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
135·7 – 137·8kHz  FIXED MARITIME MOBILE Amateur 5.67A  5.64 UK2, 7, 11, 13, 14, EU1	UK14 This band may be used for land Mobile vehicle location systems on non-interference basis to maritime services.  EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.

Region 1	Region 2	Region 3
117·6 – 126 kHz  FIXED MARITIME MOBILE RADIONAVIGATION 5.60  5.64	Cont...  110 – 130 kHz  FIXED MARITIME MOBILE MARITIME RADIO- NAVIGATION 5.60 Radiolocation  5.61 5.64	117·6 – 126 kHz  FIXED MARITIME MOBILE RADIONAVIGATION 5.60  5.64
126 – 129 kHz  RADIONAVIGATION 5.60		126 – 129 kHz  RADIONAVIGATION 5.60 Fixed Maritime Mobile  5.64 5.65
129 – 130 kHz  FIXED MARITIME MOBILE RADIONAVIGATION 5.60  5.64		129 – 130 kHz  FIXED MARITIME MOBILE RADIONAVIGATION 5.60  5.64
130 – 135·7 kHz  FIXED MARITIME MOBILE  5.64 5.67	130 – 135·7 kHz  FIXED MARITIME MOBILE  5.64	130 – 160 kHz  FIXED MARITIME MOBILE RADIONAVIGATION  5.64
135·7 – 137·8 kHz  FIXED MARITIME MOBILE Amateur 5.67A  5.64 5.67 5.67B	135·7 – 137·8 kHz  FIXED MARITIME MOBILE Amateur 5.67A  5.64	135·7 – 137·8 kHz  FIXED MARITIME MOBILE RADIONAVIGATION Amateur 5.67A  5.64 5.67B

Allocation to United Kingdom Services	Comments
135·7 – 148·5 kHz  FIXED MARITIME MOBILE  5.64                                      UK2, 11, 13, 14, EU1	UK14    This band may be used for land Mobile vehicle location systems on non-interference basis to maritime services.  EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
148·5 – 255 kHz  BROADCASTING   UK1, 11, 13, 15, EU1	UK15    Radio teleswitching is permitted on a non-interference basis and non-protected basis on BBC broadcasts.  EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
255 – 283·5 kHz  BROADCASTING                                      UK1 AERONAUTICAL RADIONAVIGATION                                      UK5.2, 212  UK1, 11, 13, EU1	UK5.2    255 - 283·5 kHz – CAA/MoD for the Aeronautical Radionavigation service.  UK212    All aeronautical assignments in this band are undertaken by the CAA.  EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.

Region 1	Region 2	Region 3
137·8 – 148·5 kHz  FIXED MARITIME MOBILE  5.64 5.67	137·8 – 160 kHz  FIXED MARITIME MOBILE  5.64	137·8 – 160 kHz  FIXED MARITIME MOBILE RADIONAVIGATION  5.64
148·5 – 255 kHz  BROADCASTING  5.68 5.69 5.70	160 – 190 kHz  FIXED	160 – 190 kHz  FIXED Aeronautical Radionavigation
	190 – 200 kHz  AERONAUTICAL RADIONAVIGATION	
255 – 283·5 kHz  BROADCASTING AERONAUTICAL RADIONAVIGATION  5.70 5.71	200 – 275 kHz  AERONAUTICAL RADIONAVIGATION Aeronautical Mobile	200 – 285 kHz  AERONAUTICAL RADIONAVIGATION Aeronautical Mobile
	275 – 285 kHz  AERONAUTICAL RADIONAVIGATION Aeronautical Mobile Maritime Radionavigation (radiobeacons)	

Allocation to United Kingdom Services	Comments
<p>283.5 – 315 kHz</p> <p>MARITIME RADIONAVIGATION (radio beacons) 5.73 UK16</p> <p>AERONAUTICAL RADIONAVIGATION (radio beacons) UK5.3, 212</p> <p>5.74 UK1, 11, 13, EU1</p>	<p>UK5.3 285 – 315 kHz – CAA/MoD for the Aeronautical Radionavigation service.</p> <p>UK16 Maritime DGPS signals may be used by the radiobeacon service on a non-interference basis.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>315 – 325 kHz</p> <p>AERONAUTICAL RADIONAVIGATION (radio beacons) UK5.4, 212</p> <p>Maritime Radionavigation (radio beacons) 5.73</p> <p>UK1, 11, 13, EU1</p>	<p>UK5.4 315–325 kHz – CAA/MoD for the Aeronautical Radionavigation service.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>325 – 405 kHz</p> <p>AERONAUTICAL RADIONAVIGATION UK212</p> <p>UK4.1, 11, EU1</p>	<p>UK4.1 325–405 kHz – CAA/MoD for the Aeronautical Radionavigation service.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>

Region 1	Region 2	Region 3
283.5 – 315 kHz  AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) 5.73  5.72 5.74	285 – 315 kHz  AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) 5.73	
315 – 325 kHz  AERONAUTICAL RADIONAVIGATION Maritime Radionavigation (radiobeacons) 5.73  5.72 5.75	315 – 325 kHz  MARITIME RADIONAVIGATION (radiobeacons) 5.73 Aeronautical Radionavigation	315 – 325 kHz  AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) 5.73
325 – 405 kHz  AERONAUTICAL RADIONAVIGATION  5.72	325 – 335 kHz  AERONAUTICAL RADIONAVIGATION Aeronautical Mobile Maritime Radionavigation (radiobeacons)	325 – 405 kHz  AERONAUTICAL RADIONAVIGATION Aeronautical Mobile
	335 – 405 kHz  AERONAUTICAL RADIONAVIGATION Aeronautical Mobile	

Allocation to United Kingdom Services	Comments
<p>405 – 415 kHz</p> <p>RADIONAVIGATION 5.76 UK184, 212 UK4.2, 11, 13, EU1</p>	<p>UK4.2 405-415 kHz – CAA/MoD for the Aeronautical Radionavigation service.</p> <p>UK184 Ofcom may licence stations in the Maritime Radionavigation service in this band.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>415 – 435 kHz</p> <p>AERONAUTICAL RADIONAVIGATION UK212 MARITIME MOBILE 5.79 UK185 UK4.3, 11, EU1</p>	<p>UK4.3 415–495 kHz – CAA/MoD for the Aeronautical Radionavigation service.</p> <p>UK185 Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>435 – 472 kHz</p> <p>MARITIME MOBILE 5.79 UK185 Aeronautical Radionavigation (radio beacons) 5.77 UK5.5, 212 5.72 5.82 UK2, 11, 12, 13, EU1</p>	<p>UK5.5 415–495kHz – CAA/MoD for the Aeronautical Radionavigation service.</p> <p>UK185 Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>472 – 479 kHz</p> <p>MARITIME MOBILE 5.79 UK185 Aeronautical Radionavigation (radio beacons) 5.77 UK5.5, 212 Amateur 5.A123 UK7 5.72 5.82 5.B123 UK2, 11, 12, 13, EU1</p>	<p>UK5.5 415–495kHz – CAA/MoD for the Aeronautical Radionavigation service.</p> <p>UK185 Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>



Region 1	Region 2	Region 3
405 – 415 kHz  RADIONAVIGATION 5.76  5.72	405 – 415 kHz  RADIONAVIGATION 5.76 Aeronautical Mobile	
415 – 435 kHz  MARITIME MOBILE 5.79 AERONAUTICAL RADIONAVIGATION  5.72	415 – 472 kHz  MARITIME MOBILE 5.79 Aeronautical Radionavigation 5.80  5.77 5.78 5.82	
435 – 472 kHz  MARITIME MOBILE 5.79 Aeronautical Radionavigation 5.77  5.72 5.82		
472 – 479 kHz  MARITIME MOBILE 5.79 Amateur 5.A123 Aeronautical radionavigation 5.77 5.80  5.72 5.82 5.B123		

Allocation to United Kingdom Services	Comments
<p>479 – 495 kHz</p> <p>MARITIME MOBILE 5.79 5.79A Aeronautical Radionavigation (radio beacons) 5.77 UK5.5, 212</p> <p>5.72 5.82 UK2, 11, 12, 13, EU1</p>	<p>UK5.5 415–495kHz – CAA/MoD for the Aeronautical Radionavigation service.</p> <p>UK185 Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>495 – 505 kHz</p> <p>MARITIME MOBILE UK185</p> <p>5.82B UK1, 11, 12, 13, EU1</p>	<p>UK185 Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>505 – 526.5 kHz</p> <p>MARITIME MOBILE 5.79 5.79A 5.84 UK185 AERONAUTICAL RADIONAVIGATION (radio beacons) UK5.6, 212</p> <p>UK2, 11, 12, 13, EU1</p>	<p>UK5.6 505.0-526.5 kHz – CAA/MoD for the Aeronautical Radionavigation service.</p> <p>UK185 Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>526.5 – 1606.5 kHz</p> <p>BROADCASTING</p> <p>UK1, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>

Region 1	Region 2	Region 3	
479 – 495 kHz  MARITIME MOBILE 5.79 5.79A Aeronautical radionavigation 5.77  5.72 5.82	479 – 495 kHz  MARITIME MOBILE 5.79 5.79A Aeronautical radionavigation 5.80  5.77 5.82		
495 – 505 kHz  MARITIME MOBILE			
505 – 526.5 kHz  MARITIME MOBILE 5.79 5.79A 5.84 AERONAUTICAL RADIONAVIGATION  5.72	505 – 510 kHz  MARITIME MOBILE 5.79	505 – 526.5 kHz  MARITIME MOBILE 5.79 5.79A 5.84 AERONAUTICAL RADIONAVIGATION Aeronautical Mobile Land Mobile	
	510 – 525 kHz  MOBILE 5.79A 5.84 AERONAUTICAL RADIONAVIGATION		
	525 – 535 kHz  BROADCASTING 5.86 AERONAUTICAL RADIONAVIGATION		
526.5 – 1 606.5 kHz  BROADCASTING  5.87 5.87A	526.5 – 535 kHz  BROADCASTING Mobile  5.88	526.5 – 535 kHz  BROADCASTING Mobile  5.88	
	535 – 1605 kHz  BROADCASTING		535 – 1606.5 kHz  BROADCASTING
	1605 – 1625 kHz  BROADCASTING 5.89  5.90		

Allocation to United Kingdom Services	Comments
<p>1606.5 – 1625 kHz</p> <p>FIXED LAND MOBILE MARITIME MOBILE 5.90 RADIOLOCATION</p> <p>5.92</p> <p>UK185 UK19</p> <p>UK2, 11, EU1</p>	<p>UK19 Limited to military systems and existing civil systems.</p> <p>UK185 Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>1625 – 1635 kHz</p> <p>FIXED RADIOLOCATION</p> <p>UK1, 11, 22, EU1</p>	<p>UK22 Cordless telephones may use the band 1632–1792 kHz.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>1635 – 1800 kHz</p> <p>FIXED LAND MOBILE MARITIME MOBILE 5.90 RADIOLOCATION</p> <p>5.92, 5.96</p> <p>UK21 UK185 UK19</p> <p>UK2, 11, 22, EU1</p>	<p>UK19 Limited to military systems and existing civil systems.</p> <p>UK21 Fixed links are used by the maritime surveying service on 1785kHz for communications when calibrating Radionavigation systems.</p> <p>UK22 Cordless telephones may use the band 1632–1782 kHz.</p> <p>UK185 Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>1800 – 1810 kHz</p> <p>RADIOLOCATION</p> <p>UK2, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>1810 – 1850 kHz</p> <p>AMATEUR</p> <p>5.100</p> <p>UK7</p> <p>UK1, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>

Region 1	Region 2	Region 3
1606.5 – 1625 kHz FIXED MARITIME MOBILE 5.90 LAND MOBILE 5.92	Cont... 1605 – 1625kHz BROADCASTING 5.89 5.90	1606.5 – 1800 kHz FIXED MOBILE RADIOLOCATION RADIONAVIGATION 5.91
1625 – 1635 kHz RADIOLOCATION 5.93	1625 – 1705 kHz FIXED MOBILE BROADCASTING 5.89 Radiolocation 5.90	
1635 – 1800 kHz FIXED MARITIME MOBILE 5.90 LAND MOBILE 5.92 5.96	1705 – 1800 kHz FIXED MOBILE RADIOLOCATION AERONAUTICAL RADIONAVIGATION	
1800 – 1810 kHz RADIOLOCATION 5.93	1800 – 1850 kHz AMATEUR	1800 – 2000 kHz AMATEUR FIXED MOBILE except aeronautical mobile RADIONAVIGATION Radiolocation 5.97
1810 – 1850 kHz AMATEUR 5.98 5.99 5.100 5.101		

Allocation to United Kingdom Services	Comments
<p>1850 – 2000 kHz</p> <p>FIXED MOBILE except aeronautical mobile      UK185 RADIOLOCATION      UK19 Amateur      UK5.7, 7</p> <p>5.92, 5.96, 5.103      UK2, 11, EU1</p>	<p>UK5.7    1850–2000 kHz - Ofcom for the Amateur service.</p> <p>UK19    Limited to military systems and existing civil systems.</p> <p>UK185    Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>EU1    Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>2000 – 2025 kHz</p> <p>FIXED MOBILE except aeronautical mobile (R)      UK185 RADIOLOCATION      UK19</p> <p>5.92, 5.103      UK2, 11, 156, EU1</p>	<p>UK19    Limited to military systems and existing civil systems.</p> <p>UK185    Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>UK156    GEOLOC operates at 2000 kHz.</p> <p>EU1    Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>2025 – 2045 kHz</p> <p>FIXED MOBILE except aeronautical mobile (R)      UK185 Meteorological Aids 5.104</p> <p>5.92, 5.103      UK2, 11, EU1</p>	<p>UK185    Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>EU1    Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>2045 – 2160 kHz</p> <p>FIXED LAND MOBILE MARITIME MOBILE      UK185 RADIOLOCATION      UK19</p> <p>UK2, 11, EU1</p>	<p>UK19    Limited to military systems and existing civil systems.</p> <p>UK185    Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>EU1    Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>2160 – 2170 kHz</p> <p>FIXED MARITIME MOBILE RADIOLOCATION</p> <p>UK2, 11, EU1</p>	<p>EU1    Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>

Region 1	Region 2	Region 3
1850 – 2000 kHz  FIXED MOBILE except aeronautical mobile  5.92 5.96 5.103	1850 – 2000 kHz  AMATEUR FIXED MOBILE except aeronautical mobile RADIOLOCATION RADIONAVIGATION  5.102	Cont...  1800 – 2000 kHz  AMATEUR FIXED MOBILE except aeronautical mobile RADIONAVIGATION Radiolocation  5.97
2000 – 2025 kHz  FIXED MOBILE except aeronautical mobile (R)  5.92 5.103	2000 – 2065 kHz  FIXED MOBILE	
2025 – 2045 kHz  FIXED MOBILE except aeronautical mobile (R) Meteorological Aids 5.104  5.92 5.103		
2045 – 2160 kHz  FIXED MARITIME MOBILE LAND MOBILE  5.92	2065 – 2107 kHz  MARITIME MOBILE 5.105  5.106	
2160 – 2170 kHz  RADIOLOCATION  5.93 5.107	2107 – 2170 kHz  FIXED MOBILE	

<b>Allocation to United Kingdom Services</b>	<b>Comments</b>
2170 – 2173.5 kHz MARITIME MOBILE UK1, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
2173.5 – 2190.5 kHz MOBILE (distress and calling) 5.108, 5.109, 5.110, 5.111 UK1, 9, 11, 12, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
2190.5 – 2194 kHz MARITIME MOBILE UK185 UK2, 11, EU1	UK185 Ofcom may licence stations in the Maritime Mobile service in this band. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
2194 – 2300 kHz FIXED MOBILE except aeronautical mobile (R) UK185 RADIOLOCATION UK19 5.92, 5.103 UK2, 11, EU1	UK19 Limited to military systems and existing civil systems. UK185 Ofcom may licence stations in the Maritime Mobile service in this band. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
2300 – 2498 kHz FIXED MOBILE except aeronautical mobile (R) UK185 5.103 UK2, 11, EU1	UK185 Ofcom may licence stations in the Maritime Mobile service in this band. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
2498 – 2501 kHz STANDARD FREQUENCY AND TIME SIGNAL (2 500 kHz) UK1, 9, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.



Region 1	Region 2	Region 3
2170 – 2173·5 kHz MARITIME MOBILE		
2173·5 – 2190·5 kHz MOBILE (distress and calling) 5.108 5.109 5.110 5.111		
2190·5 – 2194 kHz MARITIME MOBILE		
2194 – 2300 kHz FIXED MOBILE except aeronautical mobile (R) 5.92 5.103 5.112	2194 – 2300 kHz FIXED MOBILE 5.112	
2300 – 2498 kHz FIXED MOBILE except aeronautical mobile (R) BROADCASTING 5.113 5.103	2300 – 2495 kHz FIXED MOBILE BROADCASTING 5.113	
2498 – 2501 kHz STANDARD FREQUENCY AND TIME SIGNAL (2 500 kHz)	2495 – 2501 kHz STANDARD FREQUENCY AND TIME SIGNAL (2 500 kHz)	

Allocation to United Kingdom Services	Comments
<p>2501 – 2502 kHz</p> <p>STANDARD FREQUENCY AND TIME SIGNAL Space Research</p> <p>UK1, 9, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>2502 – 2625 kHz</p> <p>FIXED MOBILE except aeronautical mobile (R) UK185 RADIOLOCATION</p> <p>5.92, 5.103 UK2, 11, 12, EU1</p>	<p>UK185 Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>2625 – 2650 kHz</p> <p>MARITIME MOBILE UK185 RADIOLOCATION</p> <p>5.92 UK2, 11, EU1</p>	<p>UK185 Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>2650 – 2850 kHz</p> <p>FIXED MOBILE except aeronautical mobile (R) UK185 RADIOLOCATION</p> <p>5.92, 5.103 UK2, 11, EU1</p>	<p>UK185 Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>2850 – 3025 kHz</p> <p>AERONAUTICAL MOBILE (R) UK5.8</p> <p>5.111, 5.115 UK1, 9, 11, 12, EU1</p>	<p>UK5.8 2850–3025kHz – CAA</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>3025 – 3155 kHz</p> <p>AERONAUTICAL MOBILE (OR)</p> <p>UK2, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>

Region 1	Region 2	Region 3	
2501 – 2502 kHz  STANDARD FREQUENCY AND TIME SIGNAL Space Research			
2502 – 2625 kHz  FIXED MOBILE except aeronautical mobile (R)  5.92 5.103 5.114	2502 – 2505 kHz  STANDARD FREQUENCY AND TIME SIGNAL	2505 – 2850 kHz  FIXED MOBILE	
2625 – 2650 kHz  MARITIME MOBILE MARITIME RADIONAVIGATION  5.92			
2650 – 2850 kHz  FIXED MOBILE except aeronautical mobile (R)  5.92 5.103			
2850 – 3025 kHz  AERONAUTICAL MOBILE (R)  5.111 5.115			
3025 – 3155 kHz  AERONAUTICAL MOBILE (OR)			

Allocation to United Kingdom Services	Comments
<p>3155 – 3200 kHz</p> <p>FIXED MOBILE except aeronautical Mobile(R)      UK185</p> <p>5.116      UK2, 11, EU1</p>	<p>UK185    Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>3200 – 3230 kHz</p> <p>FIXED MOBILE except aeronautical mobile (R)      UK185</p> <p>5.116      UK2, 11, EU1</p>	<p>UK185    Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>3230 – 3400 kHz</p> <p>FIXED MOBILE except aeronautical mobile      UK185</p> <p>5.116      UK2, 11, EU1</p>	<p>UK185    Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>3400 – 3500 kHz</p> <p>AERONAUTICAL MOBILE (R)</p> <p>UK1,5.9, 9, 11, EU1</p>	<p>UK5.9    3400–3500 kHz - CAA</p> <p>EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>3500 – 3800 kHz</p> <p>AMATEUR      UK5.10, 7 FIXED MOBILE except aeronautical mobile      UK185 RADIOLOCATION</p> <p>5.92      UK2, 11, 12, EU1</p>	<p>UK5.10    3500–3800 kHz – Ofcom for the Amateur service.</p> <p>UK185    Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>3800 – 3900 kHz</p> <p>AERONAUTICAL MOBILE (OR) FIXED LAND MOBILE</p> <p>UK2, 11, EU1</p>	<p>EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>

Region 1	Region 2	Region 3
3155 – 3200 kHz FIXED MOBILE except aeronautical mobile (R) 5.116 5.117		
3200 – 3230 kHz FIXED MOBILE except aeronautical mobile (R) BROADCASTING 5.113 5.116		
3230 – 3400 kHz FIXED MOBILE except aeronautical mobile BROADCASTING 5.113 5.116 5.118		
3400 – 3500 kHz AERONAUTICAL MOBILE (R)		
3500 – 3800 kHz AMATEUR FIXED MOBILE except aeronautical mobile 5.92	3500 – 3750 kHz AMATEUR 5.119 3750 – 4000 kHz AMATEUR FIXED MOBILE except aeronautical mobile (R) 5.122 5.125	3500 – 3900 kHz AMATEUR FIXED MOBILE
3800 – 3900 kHz FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE		

<b>Allocation to United Kingdom Services</b>	<b>Comments</b>
3900 – 3950 kHz AERONAUTICAL MOBILE (OR) UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
3950 – 4000 kHz BROADCASTING FIXED UK 25 UK1, 11, EU1	UK25 HF frequencies may operate on specific frequencies in this band. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
4000 – 4063 kHz FIXED MARITIME MOBILE 5.127 UK185 UK2, 11, EU1	UK185 Ofcom may licence stations in the Maritime Mobile service in this band. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
4063 – 4438 kHz MARITIME MOBILE 5.79A 5.109, 5.110, 5.130, 5.131, 5.132 UK185 5.129 UK2, 11, 12, EU1	UK185 Ofcom may licence stations in the Maritime Mobile service in this band. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
4438 – 4488 kHz FIXED MOBILE except aeronautical mobile (R) Radiolocation 5.A115 5.B115 UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
4488 – 4650 kHz FIXED MOBILE except aeronautical mobile (R) UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.

Region 1	Region 2	Region 3
3900 – 3950 kHz  AERONAUTICAL MOBILE (OR)  5.123	Cont...  3750 – 4000 kHz  AMATEUR FIXED MOBILE except aeronautical mobile (R)  5.122 5.125	3900 – 3950 kHz  AERONAUTICAL MOBILE BROADCASTING
3950 – 4000kHz  FIXED BROADCASTING		3950 – 4000 kHz  FIXED BROADCASTING  5.126
4000 – 4063 kHz  FIXED MARITIME MOBILE 5.127  5.126		
4063 – 4438 kHz  MARITIME MOBILE 5.79A 5.109 5.110 5.130 5.131 5.132  5.128 5.129		
4438 – 4488 kHz  FIXED MOBILE except aeronautical mobile (R) Radiolocation 5.A115 5.B115	4438 – 4488 kHz  FIXED MOBILE except aeronautical mobile (R) RADIOLOCATION 5.A115	4438 – 4488 kHz  FIXED MOBILE except aeronautical mobile (R) Radiolocation 5.A115
4488 – 4650 kHz  FIXED MOBILE except aeronautical mobile (R)		4438 – 4650 kHz  FIXED MOBILE except aeronautical mobile

Allocation to United Kingdom Services	Comments
4650 – 4700 kHz AERONAUTICAL MOBILE (R) UK1, 4.4, 9, 11, EU1	UK4.4 4650–4700 kHz – CAA EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
4700 – 4750 kHz AERONAUTICAL MOBILE (OR) UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
4750 – 4850 kHz AERONAUTICAL MOBILE (OR) FIXED LAND MOBILE UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
4850 – 4995 kHz FIXED LAND MOBILE UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
4995 – 5003 kHz STANDARD FREQUENCY AND TIME SIGNAL (5 000 kHz) UK1, 9, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
5003 – 5005 kHz STANDARD FREQUENCY AND TIME SIGNAL Space research UK1, 9, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.



Region 1	Region 2	Region 3
4650 – 4700 kHz AERONAUTICAL MOBILE (R)		
4700 – 4750 kHz AERONAUTICAL MOBILE (OR)		
4750 – 4850 kHz  FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE BROADCASTING 5.113	4750 – 4850 kHz  FIXED MOBILE except aeronautical mobile (R) BROADCASTING 5.113	4750 – 4850 kHz  FIXED BROADCASTING 5.113 Land Mobile
4850 – 4995 kHz  FIXED LAND MOBILE BROADCASTING 5.113		
4995 – 5003 kHz  STANDARD FREQUENCY AND TIME SIGNAL (5 000 kHz)		
5003 – 5005 kHz  STANDARD FREQUENCY AND TIME SIGNAL Space Research		

Allocation to United Kingdom Services	Comments
5005 – 5060 kHz  FIXED   UK2, 11, EU1	EU1    Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
5060 – 5250 kHz  FIXED Mobile except aeronautical mobile  UK2, 11, EU1	EU1    Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
5250 – 5275 kHz  FIXED Mobile except aeronautical mobile  UK2, 11, EU1	EU1    Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
5250 – 5450 kHz  FIXED Mobile except aeronautical mobile  UK2, 11, 24, EU1	UK24    Maritime patrol aircraft may use 5442.5 kHz subject to 4.4.  EU1    Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
5450 – 5480 kHz  AERONAUTICAL MOBILE (OR) FIXED LAND MOBILE  UK2, 11, EU1	EU1    Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
5480 – 5680 kHz  AERONAUTICAL MOBILE (R)  5.111, 5.115                      UK1, 4.5, 9, 11, 12, EU1	UK 4.5    5480–5680 kHz – CAA  EU1    Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.

Region 1	Region 2	Region 3
5005 – 5060 kHz  FIXED BROADCASTING 5.113		
5060 – 5250 kHz  FIXED Mobile except aeronautical mobile  5.133		
5250 – 5275 kHz  FIXED MOBILE except aeronautical mobile Radiolocation 5.A115 5.C115	5250 – 5275 kHz  FIXED MOBILE except aeronautical mobile RADIOLOCATION 5.A115 5.C115	5250 – 5275 kHz  FIXED MOBILE except aeronautical mobile Radiolocation 5.A115
5275 – 5450 kHz  FIXED MOBILE except aeronautical mobile		
5450 – 5480 kHz  FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	5450 – 5480 kHz  AERONAUTICAL MOBILE (R)	5450 – 5480 kHz  FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE
5480 – 5680 kHz  AERONAUTICAL MOBILE (R)  5.111 5.115		

Allocation to United Kingdom Services	Comments
<p>5680 – 5730 kHz</p> <p>AERONAUTICAL MOBILE (OR)</p> <p>5.111, 5.115 UK2, 11, 12, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>5730 – 5900 kHz</p> <p>FIXED LAND MOBILE</p> <p>UK2, 11, 25, EU1</p>	<p>UK25 HF broadcasts may operate on specific frequencies in this band.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>5900 – 5950 kHz</p> <p>BROADCASTING 5.134</p> <p>5.136 UK1, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>5950 – 6200 kHz</p> <p>BROADCASTING</p> <p>UK1, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>6200 – 6525 kHz</p> <p>MARITIME MOBILE 5.109, 5.110, 5.130, 5.132 UK185</p> <p>5.137 UK2, 11, 12, EU1</p>	<p>UK185 Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>6525 – 6685 kHz</p> <p>AERONAUTICAL MOBILE (R)</p> <p>UK1, 4.6, 9, 11, EU1</p>	<p>UK4.6 6525–6685 kHz – CAA</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>6685 – 6765 kHz</p> <p>AERONAUTICAL MOBILE (OR)</p> <p>UK2, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>

Region 1	Region 2	Region 3
5680 – 5730 kHz AERONAUTICAL MOBILE (OR) 5.111 5.115		
5730 – 5900 kHz FIXED LAND MOBILE	5730 – 5900 kHz FIXED MOBILE except aeronautical mobile (R)	5730 – 5900 kHz FIXED Mobile except aeronautical mobile (R)
5900 – 5950 kHz BROADCASTING 5.134 5.136		
5950 – 6200 kHz BROADCASTING		
6200 – 6525 kHz MARITIME MOBILE 5.109 5.110 5.130 5.132 5.137		
6525 – 6685 kHz AERONAUTICAL MOBILE (R)		
6685 – 6765 kHz AERONAUTICAL MOBILE (OR)		

Allocation to United Kingdom Services	Comments
<p>6765 – 7000 kHz</p> <p>FIXED MOBILE except aeronautical mobile (R)</p> <p>5.138 5.138A UK2, 6, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>7000 – 7100 kHz</p> <p>AMATEUR 5.120 AMATEUR-SATELLITE</p> <p>UK1, 7, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>7100 – 7200 kHz</p> <p>AMATEUR</p> <p>5.141C UK1, 7, 11, 12, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>7200 – 7300 kHz</p> <p>BROADCASTING</p> <p>UK1, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>7300 – 7350 kHz</p> <p>BROADCASTING 5.134</p> <p>5.143, 5.143B UK1, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>7350 – 7450 kHz</p> <p>BROADCASTING FIXED Land Mobile UK 5.11</p> <p>5.143B UK1, 11, EU1</p>	<p>UK5.11 MoD for the Land Mobile service.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>

Region 1	Region 2	Region 3
6765 – 7000 kHz FIXED MOBILE except aeronautical mobile (R) 5.138 5.138A 5.139		
7000 – 7100 kHz AMATEUR AMATEUR-SATELLITE 5.140 5.141 5.141A		
7100 – 7200 kHz AMATEUR 5.141A 5.141B 5.141C 5.142		
7200 – 7300 kHz BROADCASTING	7200 – 7300 kHz AMATEUR 5.142	7200 – 7300 kHz BROADCASTING
7300 – 7400 kHz BROADCASTING 5.134 5.143 5.143A 5.143B 5.143C 5.143D		
7400 – 7450 kHz BROADCASTING 5.143B 5.143C	7400 – 7450 kHz FIXED MOBILE except aeronautical mobile (R)	7400 – 7450 kHz BROADCASTING 5.143A 5.143C

Allocation to United Kingdom Services	Comments
<p>7450 – 8100 kHz</p> <p>FIXED Land Mobile</p> <p>UK2, 11, 25, EU1</p>	<p>UK25 HF broadcasts may operate on specific frequencies in this band.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>8100 – 8195 kHz</p> <p>FIXED MARITIME MOBILE</p> <p>UK185</p> <p>UK2, 11, EU1</p>	<p>UK185 Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>8195 – 8815 kHz</p> <p>MARITIME MOBILE 5.109, 5.110, 5.132, 5.145</p> <p>5.111</p> <p>UK185</p> <p>UK2, 11, 12, EU1</p>	<p>UK185 Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>8815 – 8965 kHz</p> <p>AERONAUTICAL MOBILE (R)</p> <p>UK1, 4.7, 9, 11, EU1</p>	<p>UK4.7 8815-8965 kHz – CAA</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>8965 – 9040 kHz</p> <p>AERONAUTICAL MOBILE (OR)</p> <p>UK2, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>9040 – 9305 kHz</p> <p>FIXED</p> <p>UK2, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>9305 – 9335 kHz</p> <p>FIXED Radiolocation 5.F115 5.D115</p> <p>UK2, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>



Region 1	Region 2	Region 3
7450 – 8100 kHz FIXED MOBILE except aeronautical mobile (R). 5.143E 5.144		
8100 – 8195 kHz FIXED MARITIME MOBILE		
8195 – 8815 kHz MARITIME MOBILE 5.109 5.110 5.132 5.145 5.111		
8815 – 8965 kHz AERONAUTICAL MOBILE (R)		
8965 – 9040 kHz AERONAUTICAL MOBILE (OR)		
9040 – 9305 kHz FIXED	9040 – 9400 kHz FIXED	9040 – 9305 kHz FIXED
9305 – 9335 kHz FIXED Radiolocation 5.F115 5.D115		9305 – 9335 kHz FIXED Radiolocation 5.F115

<b>Allocation to United Kingdom Services</b>	<b>Comments</b>
9335 – 9400 kHz  FIXED   UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
9400 – 9500 kHz  BROADCASTING 5.134  5.146  UK1, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
9500 – 9900 kHz  BROADCASTING  5.147  UK1, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
9900 – 9995 kHz  FIXED   UK2, 11, 25, EU1	UK25 HF frequencies may operate on specific frequencies in this band.  EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
9995 – 10003 kHz  STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz)  5.111  UK1, 9, 11, 12, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
10003 – 10005 kHz  STANDARD FREQUENCY AND TIME SIGNAL Space Research  5.111  UK1, 11, 12, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
10005 – 10100 kHz  AERONAUTICAL MOBILE (R)  5.111  UK 1, 4.8, 9, 11, EU1	UK4.8 10 005-10 100 kHz – CAA  EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.

Region 1	Region 2	Region 3
9335– 9400 kHz FIXED	Cont... 9040 – 9400 kHz FIXED	9335– 9400 kHz FIXED
9400 – 9500 kHz BROADCASTING 5.134 5.146		
9500 – 9900 kHz BROADCASTING 5.147		
9900 – 9995 kHz FIXED		
9995 – 10003 kHz STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz) 5.111		
10003 – 10005 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research 5.111		
10005 – 10100 kHz AERONAUTICAL MOBILE (R) 5.111		

Allocation to United Kingdom Services	Comments
10100 – 10150 kHz  FIXED Amateur 5.120  UK5.12, 7  UK2, 11, 12, EU1	UK5.12 10 100-10 150 kHz – Ofcom for the Amateur service.  EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
10150 – 11175 kHz  FIXED Mobile except Aeronautical Mobile (R)  UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
11175 – 11275 kHz  AERONAUTICAL MOBILE (OR)  UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
11275 – 11400 kHz  AERONAUTICAL MOBILE (R)  UK1, 4.9, 9, 11, EU1	UK4.9 11 275-11 400 kHz – CAA  EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
11400 – 11600 kHz  FIXED  UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
11600 – 11650 kHz  BROADCASTING 5.134  5.146  UK1, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
11650 – 12050 kHz  BROADCASTING  5.147  UK1, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.

Region 1	Region 2	Region 3
10100 – 10150 kHz  FIXED Amateur		
10150 – 11175 kHz  FIXED Mobile except aeronautical mobile (R)		
11175 – 11275 kHz  AERONAUTICAL MOBILE (OR)		
11275 – 11400 kHz  AERONAUTICAL MOBILE (R)		
11400 – 11600 kHz  FIXED		
11600 – 11650 kHz  BROADCASTING 5.134  5.146		
11650 – 12050 kHz  BROADCASTING  5.147		

Allocation to United Kingdom Services	Comments
12050 – 12230 kHz BROADCASTING 5.134 5.146 UK1, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
12230 – 13200 kHz MARITIME MOBILE 5.109, 5.110, 5.132, 5.145 UK185 UK2, 11, 12, EU1	UK185 Ofcom may licence stations in the Maritime Mobile service in this band. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
13200 – 13260 kHz AERONAUTICAL MOBILE (OR) UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
13260 – 13360 kHz AERONAUTICAL MOBILE (R) UK1, 4.10, 9, 11, EU1	UK4.10 13 260-13 360 kHz– CAA. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
13360 – 13410 kHz FIXED RADIO ASTRONOMY 5.149 UK2, 10, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
13410 – 13450 kHz FIXED Mobile except Aeronautical Mobile (R) UK2, 6, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.

Region 1	Region 2	Region 3
12050 – 12100 kHz BROADCASTING 5.134 5.146		
12100 – 12230 kHz FIXED		
12230 – 13200 kHz MARITIME MOBILE 5.109 5.110 5.132 5.145		
13200 – 13260 kHz AERONAUTICAL MOBILE (OR)		
13260 – 13360 kHz AERONAUTICAL MOBILE (R)		
13360 – 13410 kHz FIXED RADIO ASTRONOMY 5.149		
13410 – 13450 kHz FIXED Mobile except aeronautical mobile (R)		

Allocation to United Kingdom Services	Comments
<p>13450 – 13550 kHz</p> <p>FIXED Mobile except aeronautical mobile (R) Radiolocation 5.A115 5.E115</p> <p>UK2, 6, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>13550 – 13570 kHz</p> <p>FIXED Mobile except aeronautical mobile (R)</p> <p>5.150 UK2, 6, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>13570 – 13600 kHz</p> <p>BROADCASTING 5.134</p> <p>5.151 UK1, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>13600 – 13800 kHz</p> <p>BROADCASTING</p> <p>UK1, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>13800 – 13870 kHz</p> <p>BROADCASTING 5.134</p> <p>5.151 UK1, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>13870 – 14000 kHz</p> <p>FIXED Mobile except aeronautical mobile (R)</p> <p>UK2, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>14000 – 14250 kHz</p> <p>AMATEUR AMATEUR-SATELLITE</p> <p>UK1, 7, 11, 12, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>



Region 1	Region 2	Region 3
13450 – 13550 kHz  FIXED Mobile except aeronautical mobile (R) Radiolocation 5.A115 5.E115	13450 – 13550 kHz  FIXED Mobile except aeronautical mobile (R) Radiolocation 5.A115	
13550 – 13570 kHz  FIXED Mobile except aeronautical mobile (R)  5.150		
13570 – 13600 kHz  BROADCASTING 5.134  5.151		
13600 – 13800 kHz  BROADCASTING		
13800 – 13870 kHz  BROADCASTING 5.134  5.151		
13870 – 14000 kHz  FIXED Mobile except aeronautical mobile (R)		
14000 – 14250 kHz  AMATEUR AMATEUR-SATELLITE		

Allocation to United Kingdom Services	Comments
14250 – 14350 kHz AMATEUR 5.152 UK1, 7, 11, 12, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
14350 – 14990 kHz FIXED Mobile except aeronautical mobile (R) UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
14990 – 15005 kHz STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz) 5.111 UK1, 9, 11, 12, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
15005 – 15010 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research UK1, 9, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
15010 – 15100 kHz AERONAUTICAL MOBILE (OR) UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
15100 – 15600 kHz BROADCASTING UK1, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
15600 – 15800 kHz BROADCASTING 5.134 5.146 UK1, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.

Region 1	Region 2	Region 3
14250 – 14350 kHz AMATEUR 5.152		
14350 – 14990 kHz FIXED Mobile except aeronautical mobile (R)		
14990 – 15005 kHz STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz) 5.111		
15005 – 15010 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research		
15010 – 15100 kHz AERONAUTICAL MOBILE (OR)		
15100 – 15600 kHz BROADCASTING		
15600 – 15800 kHz BROADCASTING 5.134 5.146		

<b>Allocation to United Kingdom Services</b>	<b>Comments</b>
15800 – 16100 kHz FIXED UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
16100 – 16200 kHz FIXED Radiolocation UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
16200 – 16300 kHz FIXED UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
16360 – 17410 kHz MARITIME MOBILE, 5.109, 5.110, 5.132, 5.145 UK185 UK2, 11, 12, EU1	UK185 Ofcom may licence stations in the Maritime Mobile service in this band. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
17410 – 17480 kHz FIXED UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
17480 – 17550 kHz BROADCASTING 5.134 5.146 UK1, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
17550 – 17900 kHz BROADCASTING UK1, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.

Region 1	Region 2	Region 3
15800 – 16100 kHz FIXED 5.153		
16100 – 16200 kHz FIXED Radiolocation 5.F115 5.D115	16100 – 16200 kHz FIXED RADIOLOCATION 5.F115	16100 – 16200 kHz FIXED Radiolocation 5.F115
16200 – 16300 kHz FIXED		
16360 – 17410 kHz MARITIME MOBILE 5.109 5.110 5.132 5.145		
17410 – 17480 kHz FIXED		
17480 – 17550 kHz BROADCASTING 5.134 5.146		
17550 – 17900 kHz BROADCASTING		

<b>Allocation to United Kingdom Services</b>	<b>Comments</b>
17900 – 17970 kHz AERONAUTICAL MOBILE (R) UK1, 4.11, 9, 11, EU1	UK4.11 17 900-17 970 kHz – CAA. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
17970 – 18030 kHz AERONAUTICAL MOBILE (OR) UK 2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
18030 – 18052 kHz FIXED UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
18052 – 18068 kHz FIXED Space Research UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
18068 – 18168 kHz AMATEUR 5.120 AMATEUR-SATELLITE UK1, 7, 11, 12, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
18168 – 18780 kHz FIXED Mobile except aeronautical mobile UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
18780 – 18900 kHz MARITIME MOBILE UK185 UK2, 11, EU1	UK185 Ofcom may licence stations in the Maritime Mobile service in this band. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
18900 – 19020 kHz BROADCASTING 5.134 5.146 UK1, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.

Region 1	Region 2	Region 3
17900 – 17970 kHz AERONAUTICAL MOBILE (R)		
17970 – 18030 kHz AERONAUTICAL MOBILE (OR)		
18030 – 18052 kHz FIXED		
18052 – 18068 kHz FIXED Space Research		
18068 – 18168 kHz AMATEUR AMATEUR-SATELLITE 5.154		
18168 – 18780 kHz FIXED Mobile except aeronautical mobile		
18780 – 18900 kHz MARITIME MOBILE		
18900 – 19020 kHz BROADCASTING 5.134 5.146		

Allocation to United Kingdom Services	Comments
19020 – 19680 kHz  FIXED   UK2, 11, EU1	EU1    Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
19680 – 19800 kHz  MARITIME MOBILE 5.132  UK185 UK2, 11, 12, EU1	UK185    Ofcom may licence stations in the Maritime Mobile service in this band.  EU1    Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
19800 – 19990 kHz  FIXED   UK2, 11, EU1	EU1    Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
19990 – 19995 kHz  STANDARD FREQUENCY AND TIME SIGNAL Space Research  5.111 UK1, 9, 11, 12, EU1	EU1    Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
19995 – 20010 kHz  STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz)  5.111 UK1, 9, 11, EU1	EU1    Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
20010 – 21000 kHz  FIXED Mobile   UK2, 11, EU1	EU1    Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
21000 – 21450 kHz  AMATEUR AMATEUR-SATELLITE   UK1, 7, 11, 12, EU1	EU1    Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.



Region 1	Region 2	Region 3
19020 – 19680 kHz FIXED		
19680 – 19800 kHz MARITIME MOBILE 5.132		
19800 – 19990 kHz FIXED		
19990 – 19995 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research 5.111		
19995 – 20010 kHz STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz) 5.111		
20010 – 21000 kHz FIXED Mobile		
21000 – 21450 kHz AMATEUR AMATEUR-SATELLITE		

<b>Allocation to United Kingdom Services</b>	<b>Comments</b>
21450 – 21850 kHz BROADCASTING UK1, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
21850 – 21870 kHz FIXED UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
21870 – 21924 kHz FIXED 5.155B UK1, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
21924 – 22000 kHz AERONAUTICAL MOBILE (R) UK1, 4.13, 9, 11, EU1	UK4.13 21·924-22·000 kHz – CAA. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
22000 – 22855 kHz MARITIME MOBILE 5.132 UK185 UK2, 11, 12, EU1	UK185 Ofcom may licence stations in the Maritime Mobile service in this band. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
22855 – 23000 kHz FIXED UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
23000 – 23200 kHz FIXED Mobile except Aeronautical mobile (R) UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
23200 – 23350 kHz AERONAUTICAL MOBILE (OR) FIXED 5.156A UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.

Region 1	Region 2	Region 3
21450 – 21850 kHz BROADCASTING		
21850 – 21870 kHz FIXED 5.155A 5.155		
21870 – 21924 kHz FIXED 5.155B		
21924 – 22000 kHz AERONAUTICAL MOBILE (R)		
22 000 – 22 855 kHz MARITIME MOBILE 5.132 5.156		
22855 – 23000 kHz FIXED 5.156		
23000 – 23200 kHz FIXED Mobile except aeronautical mobile (R) 5.156		
23200 – 23350 kHz FIXED 5.156A AERONAUTICAL MOBILE (OR)		

Allocation to United Kingdom Services	Comments
<p>23350 – 24000 kHz</p> <p>FIXED MOBILE except aeronautical mobile 5.157</p> <p>UK2, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>24000 – 24450 kHz</p> <p>FIXED LAND MOBILE</p> <p>UK2, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>24450 – 24600 kHz</p> <p>FIXED LAND MOBILE Radiolocation 5.A115 5.G115</p> <p>UK2, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>24600 – 24890 kHz</p> <p>FIXED LAND MOBILE</p> <p>UK2, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>24890 – 24990 kHz</p> <p>AMATEUR AMATEUR-SATELLITE</p> <p>UK1, 7, 11, 12, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>24990 – 25005 kHz</p> <p>STANDARD FREQUENCY AND TIME SIGNAL (25 000 kHz)</p> <p>UK1, 9, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>

Region 1	Region 2	Region 3
23350 – 24000 kHz  FIXED MOBILE except aeronautical mobile 5.157		
24000 – 24450 kHz  FIXED LAND MOBILE		
24450 – 24600 kHz  FIXED LAND MOBILE Radiolocation 5.A115 5.G115	24450 – 24650 kHz  FIXED LAND MOBILE RADIOLOCATION 5.A115	24450 – 24600 kHz  FIXED LAND MOBILE Radiolocation 5.A115
24600 – 24890 kHz  FIXED LAND MOBILE	24650 – 24890 KHz  FIXED LAND MOBILE	24600 – 24890 kHz  FIXED LAND MOBILE
24890 – 24990 kHz  AMATEUR AMATEUR-SATELLITE		
24990 – 25005 kHz  STANDARD FREQUENCY AND TIME SIGNAL (25 000 kHz)		

<b>Allocation to United Kingdom Services</b>	<b>Comments</b>
25005 – 25010 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research UK1, 9, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
25010 – 25070 kHz MOBILE except aeronautical mobile UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
25070 – 25210 kHz MARITIME MOBILE UK185 UK2, 11, EU1	UK185 Ofcom may licence stations in the Maritime Mobile service in this band. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
25210 – 25550 kHz FIXED MOBILE except aeronautical mobile UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
25550 – 25670 kHz RADIO ASTRONOMY 5.149 UK10 UK1, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
25670 – 26100 kHz BROADCASTING UK1, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
26100 – 26175 kHz MARITIME MOBILE 5.132 UK185 UK2, 11, 12, EU1	UK185 Ofcom may licence stations in the Maritime Mobile service in this band. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
26175 – 26200 kHz FIXED MOBILE except aeronautical mobile UK2, 6, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.

Region 1	Region 2	Region 3
25005 – 25010 kHz  STANDARD FREQUENCY AND TIME SIGNAL Space Research		
25010 – 25070 kHz  FIXED MOBILE except aeronautical mobile		
25070 – 25210 kHz  MARITIME MOBILE		
25210 – 25550 kHz  FIXED MOBILE except aeronautical mobile		
25550 – 25670 kHz  RADIO ASTRONOMY  5.149		
25670 – 26100 kHz  BROADCASTING		
26100 – 26175 kHz  MARITIME MOBILE 5.132		
26175 – 26200 kHz  FIXED MOBILE except aeronautical mobile		

Allocation to United Kingdom Services	Comments
<p>26200 – 26350 kHz</p> <p>FIXED MOBILE except aeronautical mobile Radiolocation</p> <p>UK28</p> <p>UK2, 6, 11, 29</p>	<p>UK28 Citizens' Band radio is authorised between 26 960-27 410 kHz and 27 600–28 000 kHz but excluding 26 995 kHz, 27 045 kHz, 27 095 kHz, 27 145 kHz and 27 195 kHz. (CEPT PR 27).</p> <p>UK29 The band 26 225-26 9325 kHz and the frequencies 31·725 MHz, 31·750 MHz and 31·775 MHz (all within ± 12·5 kHz) may be used by Business Radio.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>26350 – 27500 kHz</p> <p>FIXED MOBILE except aeronautical mobile</p> <p>UK 28</p> <p>5.150 UK2, 6, 11, 29, EU1</p>	<p>UK28 Citizens' Band radio is authorised between 26 960-27 410 kHz and 27 600–28 000 kHz but excluding 26 995 kHz, 27 045 kHz, 27 095 kHz, 27 145 kHz and 27 195 kHz. (CEPT PR 27).</p> <p>UK29 The band 26 225-26 9325 kHz and the frequencies 31·725 MHz, 31·750 MHz and 31·775 MHz (all within ± 12·5 kHz) may be used by Business Radio.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>27·5 – 28·0 MHz</p> <p>FIXED METEOROLOGICAL AIDS (sondes) MOBILE</p> <p>UK 28</p> <p>UK2, 11, EU1</p>	<p>UK28 Citizens' Band radio is authorised between 26 960-27 410 kHz and 27 600–28 000 kHz but excluding 26 995 kHz, 27 045 kHz, 27 095 kHz, 27 145 kHz and 27 195 kHz. (CEPT PR 27).</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>28·0 – 29·7 MHz</p> <p>AMATEUR AMATEUR-SATELLITE</p> <p>UK1, 7, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>



Region 1	Region 2	Region 3
26200 – 26350 kHz  FIXED MOBILE except aeronautical mobile Radiolocation  5.A115 5.C115	26200 – 26420 kHz  FIXED MOBILE except aeronautical mobile RADIOLOCATION  5.A115	26200 – 26350 kHz  FIXED MOBILE except aeronautical mobile Radiolocation  5.A115
26350 – 27500 kHz  FIXED MOBILE except aeronautical mobile  5.150	26420 – 27500 kHz  FIXED MOBILE except aeronautical mobile  5.150	26350 – 27500 kHz  FIXED MOBILE except aeronautical mobile  5.150
27·5 – 28 MHz  METEOROLOGICAL AIDS FIXED MOBILE		
28 – 29·7 MHz  AMATEUR AMATEUR-SATELLITE		

Allocation to United Kingdom Services	Comments
29.7 – 30.005 MHz  FIXED MOBILE  UK 2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
30.005 – 30.01 MHz  FIXED MOBILE SPACE OPERATION (satellite identification) SPACE RESEARCH  UK2, 11, EU1	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
30.01 – 37.5 MHz  FIXED MOBILE  UK2, 11, 29, 31, 167, EU1	UK29 The band 26 225-26 9325 kHz and the frequencies 31.725 MHz, 31.750 MHz and 31.775 MHz (all within $\pm 12.5$ kHz) may be used by Business Radio.  UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.  UK167 31.0375-40.1125 MHz Ofcom for analogue cordless phones.  EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
37.5 – 38.25 MHz  MOBILE FIXED Radio Astronomy  5.149  UK10  UK2, 167	UK167 31.0375-40.1125 MHz Ofcom for analogue cordless phones.
38.25 – 39 MHz  FIXED MOBILE  UK2, 11, 29, 31, 167	UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.  UK167 31.0375-40.1125 MHz Ofcom for analogue cordless phones.
39 – 39.5 MHz  FIXED MOBILE Radiolocation 5.A115 5.H115  UK2, 31, 167	UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.  UK167 31.0375-40.1125 MHz Ofcom for analogue cordless phones.

Region 1	Region 2	Region 3
29.7 – 30.005 MHz  FIXED MOBILE		
30.005 – 30.01 MHz  SPACE OPERATION (satellite identification) FIXED MOBILE SPACE RESEARCH		
30.01 – 37.5 MHz  FIXED MOBILE		
37.5 – 38.25 MHz  FIXED MOBILE Radio Astronomy  5.149		
38.25 – 39 MHz  FIXED MOBILE	38.25 – 39.986 MHz  FIXED MOBILE	38.25 – 39.5 MHz FIXED MOBILE
39 – 39.5 MHz  FIXED MOBILE Radiolocation 5.A115 5.H115		

Allocation to United Kingdom Services	Comments
<p>39.5 – 39.986 MHz</p> <p>FIXED MOBILE</p> <p>UK2, 31, 167</p>	<p>UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.</p> <p>UK167 31.0375-40.1125 MHz Ofcom for analogue cordless phones.</p>
<p>39.986 – 40.020 MHz</p> <p>MOBILE Space Research</p> <p>UK2, 31, 167</p>	<p>UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.</p> <p>UK167 31.0375-40.1125 MHz Ofcom for analogue cordless phones.</p>
<p>40.02 – 40.98 MHz</p> <p>MOBILE</p> <p>UK2, 6, 11, 31, EU1</p>	<p>UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>40.98 – 41.015 MHz</p> <p>MOBILE Space Research</p> <p>UK2, 31</p>	<p>UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.</p>
<p>40.015 – 42 MHz</p> <p>FIXED MOBILE</p> <p>UK2, 6, 31</p>	<p>UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.</p> <p>UK6 ISM applications are designated for use within this band. Their conditions of use are contained at Annex A.</p>

Region 1	Region 2	Region 3
39.5 – 39.986 MHz  FIXED MOBILE		39.5 – 39.986 MHz  FIXED MOBILE RADIOLOCATION 5.A115
39.986 – 40.02 MHz  FIXED MOBILE Space Research		39.986 – 40 MHz  FIXED MOBILE RADIOLOCATION 5.A115 Space research
		40 – 40.02 MHz  FIXED MOBILE Space Research
40.02 – 40.98MHz  FIXED MOBILE  5.150		
40.98 – 41.015 MHz  FIXED MOBILE Space Research  5.160 5.161		
41.015 – 42 MHz  FIXED MOBILE  5.160 5.161 5.1115		

Allocation to United Kingdom Services	Comments
42 – 42.5 MHz  FIXED MOBILE  UK2, 6, 31	UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.  UK6 ISM applications are designated for use within this band. Their conditions of use are contained at Annex A.
42.5 – 44 MHz  FIXED MOBILE  5.160 5.161 5.1115 UK2, 6, 31	UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.  UK6 ISM applications are designated for use within this band. Their conditions of use are contained at Annex A.
44 – 46.4 MHz  MOBILE  5.162A UK2, 31, 176	UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.  UK176 The MoD (for the Met Office) may operate Wind Profiler radars within the band 46-68 MHz provided each assignment has been co-ordinated with other users of this band.
46.4 – 47 MHz  MOBILE UK8  5.162A UK2, 31, 169, 176	UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.  UK169 46.5–47.0 MHz – Ofcom for meteor burst communications.  UK176 The MoD (for the Met Office) may operate Wind Profiler radars within the band 46-68 MHz provided each assignment has been co-ordinated with other users of this band.

Region 1	Region 2	Region 3
42 – 42.5 MHz  FIXED MOBILE Radiolocation 5.A115 5.160 5.J115	42 – 42.5 MHz  FIXED MOBILE	
42.5 – 44 MHz  FIXED MOBILE  5.160 5.161 5.1115		
44 – 47 MHz  FIXED MOBILE  5.162 5.162A		

Allocation to United Kingdom Services	Comments
<p>47 – 50 MHz</p> <p>LAND MOBILE</p> <p>5.162A, 5.164</p> <p>UK8</p> <p>UK1, 11, 27, 176, 223</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK176 The MoD (for the Met Office) may operate Wind Profiler radars within the band 46-68 MHz provided each assignment has been co-ordinated with other users of this band.</p> <p>UK223 The Wiesbaden 1995 (WI95), and Maastricht (MA02) Regional Agreements as revised in Constanta in 2007 (Co07), are applicable to the bands 47 – 68 MHz, 87.5 – 108 MHz, 174 – 230 MHz, 230 – 240 MHz and 1452 – 1492 MHz.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>50 – 51 MHz</p> <p>AMATEUR</p> <p>5.162A, 5.164</p> <p>UK1, 7, 32, 171, 176, 223</p>	<p>UK32 Video transmissions using leaky cable techniques are permitted on 50.5 MHz for railway track to train.</p> <p>UK171 50.5–51.0 MHz - Ocean Surface Current Radars. Short-term use on a no protection, non-interference basis.</p> <p>UK176 The MoD (for the Met Office) may operate Wind Profiler radars within the band 46-68 MHz provided each assignment has been co-ordinated with other users of this band.</p> <p>UK223 The Wiesbaden 1995 (WI95), and Maastricht (MA02) Regional Agreements as revised in Constanta in 2007 (Co07), are applicable to the bands 47 – 68 MHz, 87.5 – 108 MHz, 174 – 230 MHz, 230 – 240 MHz and 1452 – 1492 MHz.</p>



Region 1	Region 2	Region 3
47 – 68MHz  BROADCASTING  5.162A 5.163 5.164 5.165 5.169 5.171	47 – 50 MHz  FIXED MOBILE	47 – 50 MHz  FIXED MOBILE BROADCASTING  5.162A
	50 – 54 MHz  AMATEUR  5.162A 5.166 5.167 5.168 5.170	

Allocation to United Kingdom Services	Comments
<p>51 – 52 MHz</p> <p>LAND MOBILE Amateur</p> <p>5.162A, 5.164</p> <p>UK8 UK7</p> <p>UK2, 5.13, 176, 223</p>	<p>UK5.13 51.0-52.0 MHz – MoD for the Land Mobile service. Ofcom for the Amateur service.</p> <p>UK176 The MoD (for the Met Office) may operate Wind Profiler radars within the band 46-68 MHz provided each assignment has been co-ordinated with other users of this band.</p> <p>UK223 The Wiesbaden 1995 (WI95), and Maastricht (MA02) Regional Agreements as revised in Constanta in 2007 (Co07), are applicable to the bands 47 – 68 MHz, 87.5 – 108 MHz, 174 – 230 MHz, 230 – 240 MHz and 1452 – 1492 MHz.</p>
<p>52 – 68 MHz</p> <p>LAND MOBILE</p> <p>5.162A, 5.164</p> <p>UK8</p> <p>UK1, 27, 176, 223</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK176 The MoD (for the Met Office) may operate Wind Profiler radars within the band 46-68 MHz provided each assignment has been co-ordinated with other users of this band.</p> <p>UK223 The Wiesbaden 1995 (WI95), and Maastricht (MA02) Regional Agreements as revised in Constanta in 2007 (Co07), are applicable to the bands 47 – 68 MHz, 87.5 – 108 MHz, 174 – 230 MHz, 230 – 240 MHz and 1452 – 1492 MHz.</p>
<p>68 – 70.5 MHz</p> <p>MOBILE except aeronautical mobile Amateur</p> <p>UK7</p> <p>UK4.14, 27</p>	<p>UK4.14 68.0-70.0 MHz – Ofcom for the Mobile except aeronautical mobile service; 70.0-70.5 MHz – MoD. Ofcom for the Amateur service.</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>
<p>70.5 – 71.5 MHz</p> <p>LAND MOBILE</p> <p>UK1, 3.1</p>	<p>UK3.1 70.5 - 71.5 MHz Emergency Services use (see Annex I).</p>

Region 1	Region 2	Region 3
Cont... 47 – 68 MHz BROADCASTING 5.162A 5.163 5.164 5.165 5.169 5.171	Cont... 50 – 54 MHz AMATEUR 5.162A 5.166 5.167 5.168 5.170	
	54 – 68 MHz BROADCASTING Fixed Mobile 5.172	54 – 68 MHz FIXED MOBILE BROADCASTING 5.162A
68 – 74.8 MHz FIXED MOBILE except aeronautical mobile 5.149, 5.174, 5.175, 5.177, 5.179	68 – 72 MHz BROADCASTING Fixed Mobile 5.173	68 – 74.8 MHz FIXED MOBILE

Allocation to United Kingdom Services	Comments
71.5 – 72.8 MHz LAND MOBILE UK8 UK1	
72.8 – 74.8 MHz LAND MOBILE 5.149 UK8, 31, 33 UK4.15, 27	UK4.15 72.8-74.68125 MHz – MoD; 74.68125-74.71875 MHz – Ofcom; 74.71875-74.8 MHz – MoD. UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H. UK31 The allocation is mainly for military, any civil requirements being co-ordinated by the MoD. UK33 The use of the MoD parts of this band by military helicopters is permitted.
74.8 – 75.2 MHz AERONAUTICAL RADIONAVIGATION 5.180 UK212 UK4.16	UK4.16 74.8-75.2 MHz – MoD/CAA. UK212 All aeronautical assignments in this band are undertaken by the CAA.
75.2 – 76.7 MHz LAND MOBILE UK8 UK2, 27, 31	UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H. UK31 The allocation is mainly for military, any civil requirements being co-ordinated by the MoD.

Region 1	Region 2	Region 3
Cont...  68 – 74·8 MHz  FIXED MOBILE except aeronautical mobile  5.149, 5.174, 5.175, 5.177, 5.179		Cont...  68 – 74·8 MHz  FIXED MOBILE
	72 – 73 MHz  FIXED MOBILE	
	73 – 74·6 MHz  RADIO ASTRONOMY  5.178	
	74·6 – 74·8MHz  FIXED MOBILE	
74·8 – 75·2 MHz  AERONAUTICAL RADIONAVIGATION  5.180 5.181		
75·2 – 87·5 MHz  FIXED MOBILE except aeronautical mobile  5.175 5.179 5.184 5.187	75·2 – 75·4 MHz  FIXED MOBILE  5.179	
	75·4 – 76 MHz  FIXED MOBILE	75·4 – 87 MHz  FIXED MOBILE  5.182 5.183 5.188
	76 – 88 MHz  BROADCASTING Fixed Mobile  5.185	

Allocation to United Kingdom Services	Comments
<p>76.7 – 78 MHz</p> <p>FIXED MOBILE</p> <p>UK8</p> <p>UK1, 27</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>
<p>78 – 80 MHz</p> <p>LAND MOBILE</p> <p>UK31</p> <p>UK2, 27, 33</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK31 The allocation is mainly for military, any civil requirements being co-ordinated by the MoD.</p> <p>UK33 The use of this band by military helicopters is permitted.</p>
<p>80 – 87.5 MHz</p> <p>FIXED LAND MOBILE Radio Astronomy</p> <p>UK 8 UK10</p> <p>UK3.2, 4.17, 6, 12, 27</p>	<p>UK3.2 80 - 81.5 MHz and 86.30625 - 86.31875 Emergency Services use (see Annex I).</p> <p>UK4.17 83.5-85.0 MHz – MoD 81.5-83.5 MHz and 85.0-87.5 MHz – Ofcom.</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>
<p>87.5 – 108 MHz</p> <p>BROADCASTING</p> <p>UK36</p> <p>UK1, 11,223, EU1</p>	<p>UK36 FM sound broadcasting.</p> <p>UK223 The Wiesbaden 1995 (WI95), and Maastricht (MA02) Regional Agreements as revised in Constanta in 2007 (Co07), are applicable to the bands 47 – 68 MHz, 87.5 – 108 MHz, 174 – 230 MHz, 230 – 240 MHz and 1452 – 1492 MHz.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>

Region 1	Region 2	Region 3
Cont... 75·2 – 87·5 MHz  FIXED MOBILE except aeronautical mobile  5.175 5.179 5.184 5.187	Cont... 76 – 88 MHz  BROADCASTING Fixed Mobile  5.185	Cont... 75·4 – 87 MHz  FIXED MOBILE  5.182 5.183 5.188
		87 – 100 MHz  FIXED MOBILE BROADCASTING
87·5 – 100 MHz  BROADCASTING  5.190	88 – 100 MHz  BROADCASTING	
100 – 108 MHz  BROADCASTING  5.192 5.194		

Allocation to United Kingdom Services	Comments
<p>108 – 117.975 MHz</p> <p>AERONAUTICAL RADIONAVIGATION      UK212</p> <p>5.197A      UK4.18</p>	<p>UK4.18 108.0-117.975 MHz – CAA/MoD.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p>
<p>117.975 – 137 MHz</p> <p>AERONAUTICAL MOBILE (R)      UK212</p> <p>5.111, 5.200</p> <p>UK1, 4.19, 12, 39, 40, 172, 177</p>	<p>UK4.19 117.975–137.0 MHz – CAA</p> <p>UK39 A number of assignments in this band will continue to be operated by the MoD in accordance with arrangements agreed between DAP and MoD.</p> <p>UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (see Annex E).</p> <p>UK172 132.65 MHz <math>\pm</math>12.5kHz is used by HMCG for communication with SAR helicopters.</p> <p>UK177 Emergency services mobile ground stations and certain airport operations vehicles may operate in this band within the confines of authorised aerodromes subject to approval by CAA.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p>
<p>137 – 137.025 MHz</p> <p>METEOROLOGICAL SATELLITE (space to Earth) MOBILE MOBILE SATELLITE 5.208A, 5.208B, 5.209 Space operation (space to Earth) Space Research (space to Earth)</p> <p>5.208      UK2, 40</p>	<p>UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (see Annex E).</p>
<p>137.025 – 137.175 MHz</p> <p>METEOROLOGICAL SATELLITE (space to Earth) MOBILE Mobile Satellite (space to Earth) 5.208A, 5.208B, 5.209 Space operation (space to Earth) Space Research (space to Earth)</p> <p>5.208      UK2, 40</p>	<p>UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (see Annex E).</p>



Region 1	Region 2	Region 3
108 – 117·975 MHz AERONAUTICAL RADIONAVIGATION 5.197 5.197A		
117·975 – 137 MHz AERONAUTICAL MOBILE (R) 5.111 5.200 5.201, 5.202,		
137 – 137·025 MHz SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.208A 5.208B 5.209 SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R) 5.204 5.205 5.206 5.207 5.208		
137·025 – 137·175 MHz SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed Mobile-Satellite (space-to-Earth) 5.208A 5.208B 5.209 Mobile except aeronautical mobile (R) 5.204 5.205 5.206 5.207 5.208		

Allocation to United Kingdom Services	Comments
<p>137.175 – 137.825 MHz</p> <p>METEOROLOGICAL SATELLITE (space to Earth) MOBILE MOBILE SATELLITE 5.208A, 5.208B, 5.209 Space Operation (space to Earth) Space Research (space to Earth)</p> <p>5.208 UK2, 40</p>	<p>UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (see Annex E).</p>
<p>137.825 – 138 MHz</p> <p>METEOROLOGICAL SATELLITE (space to Earth) Mobile Satellite 5.208A, 5.208B, 5.209 Mobile except aeronautical mobile (R) Space Operation (space to Earth) Space Research (space to Earth)</p> <p>5.208 UK2, 4.20, 40</p>	<p>UK4.20 137.9625-138.0375 MHz – Ofcom.</p> <p>UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (see Annex E).</p>
<p>138 – 141.9 MHz</p> <p>LAND MOBILE UK8, 183 Space Research (space to Earth)</p> <p>5.210, 5.211 UK1, 3.3, 4.21, 27, 40</p>	<p>UK3.3 138.0875 - 138.1125 MHz and 138.2875 - 138.3125 MHz Emergency Services use (see Annex I).</p> <p>UK4.21 137.9625–138.0375 MHz, 138.0625-138.0875 MHz, 138.1125-138.2125 MHz and 139.5125-140.4875 MHz - Ofcom.</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E).</p> <p>UK183 Residual MoD services in Northern Ireland.</p>
<p>141.9 – 143 MHz</p> <p>LAND MOBILE UK 8 Space Research (space to Earth)</p> <p>5.210, 5.211 UK2, 4.22, 40</p>	<p>UK4.22 141.9-143.0 MHz – MoD. Use of the sub-band 142.5-143.0 MHz is for Mobile services and not restricted to Land Mobile.</p> <p>UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E).</p>

Region 1	Region 2	Region 3
137·175 – 137·825 MHz  SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.208A 5.208B 5.209 SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R)  5.204 5.205 5.206 5.207 5.208		
137·825 – 138 MHz  SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed Mobile-Satellite (space-to-Earth) 5.208A 5.208B 5.209 Mobile except aeronautical mobile (R)  5.204 5.205 5.206 5.207 5.208		
138 – 143·6 MHz  AERONAUTICAL MOBILE (OR)  5.210 5.211 5.212 5.214	138 – 143·6 MHz  FIXED MOBILE RADIOLOCATION Space Research (space-to-Earth)	138 – 143·6 MHz  FIXED MOBILE Space Research (space-to-Earth)  5.207 5.213

Allocation to United Kingdom Services	Comments
<p>143 – 144 MHz</p> <p>LAND MOBILE UK8, 183</p> <p>5.210, 5.211 UK1, 3.4, 40</p>	<p>UK3.4 143 - 144 MHz Emergency Services use (see Annex I).</p> <p>UK40 Sonobuoys operate on agreed frequencies in the band 137·0-162·0 MHz (See Annex E).</p> <p>UK183 Residual MoD services in Northern Ireland.</p>
<p>144 – 146 MHz</p> <p>AMATEUR</p> <p>AMATEUR-SATELLITE</p> <p>UK1, 12, 7, 40</p>	<p>UK40 Sonobuoys operate on agreed frequencies in the band 137·0-162·0 MHz (See Annex E).</p>
<p>146 – 149 MHz</p> <p>FIXED</p> <p>MOBILE except aeronautical mobile (R) UK183</p> <p>UK1, 3.5, 27, 40</p>	<p>UK3.5 146 - 148 MHz Emergency Services use (see Annex I).</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK40 Sonobuoys operate on agreed frequencies in the band 137·0-162·0 MHz (See Annex E).</p> <p>UK183 Residual MoD services in Northern Ireland.</p>
<p>149 – 149.9 MHz</p> <p>MOBILE except aeronautical mobile (R)</p> <p>MOBILE-SATELLITE (Earth-to-space) UK178</p> <p>5.209</p> <p>5.218, 5.219, 5.221 UK2, 40, 44</p>	<p>UK40 Sonobuoys operate on agreed frequencies in the band 137·0-162·0 MHz (See Annex E).</p> <p>UK44 The Space Operation service (Earth to space) may operate in this band on assignments agreed by the MoD).</p> <p>UK178 The Mobile Satellite service may only operate in the UK under terms agreed with the MoD.</p>
<p>149.9 – 150.05 MHz</p> <p>MOBILE-SATELLITE (Earth-to-space)</p> <p>5.209, 5.224A</p> <p>RADIONAVIGATION-SATELLITE 5.224B</p> <p>5.220, 5.222, 5.223 UK1, 40, 183</p>	<p>UK40 Sonobuoys operate on agreed frequencies in the band 137·0-162·0 MHz (See Annex E).</p> <p>UK183 Residual MoD services in Northern Ireland.</p>

Region 1	Region 2	Region 3
143·6 – 143·65 MHz  AERONAUTICAL MOBILE (OR) SPACE RESEARCH (space-to-Earth)  5.211 5.212 5.214	143·6 – 143·65 MHz  FIXED MOBILE RADIOLOCATION SPACE RESEARCH (space-to-Earth)	143·6 – 143·65 MHz  FIXED MOBILE SPACE RESEARCH (space-to-Earth)  5.207 5.213
143·65 – 144 MHz  AERONAUTICAL MOBILE (OR)  5.210 5.211 5.212 5.214	143·65 – 144 MHz  FIXED MOBILE RADIOLOCATION Space Research (space-to-Earth)	143·65 – 144 MHz  FIXED MOBILE Space Research (space-to-Earth)  5.207 5.213
144 – 146MHz  AMATEUR AMATEUR-SATELLITE  5.216		
146 – 148 MHz  FIXED MOBILE except aeronautical mobile (R)	146 – 148 MHz  AMATEUR  5.217	146 – 148 MHz  AMATEUR FIXED MOBILE  5.217
148 – 149·9 MHz  FIXED MOBILE except aeronautical mobile (R) MOBILE-SATELLITE (Earth-to-space) 5.209  5.218 5.219 5.221	148 – 149·9 MHz  FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.209  5.218 5.219 5.221	
149·9 – 150·05 MHz  MOBILE-SATELLITE (Earth-to-space) 5.209 5.224A RADIONAVIGATION-SATELLITE 5.224B  5.220 5.222 5.223		

Allocation to United Kingdom Services	Comments
150.05 – 152 MHz  FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY  5.149  UK10  UK1, 40, 45, 183	UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E).  UK45 Oil slick markers operate on specific frequencies in the sub-band 150.5-150.55 MHz.  UK183 Residual MoD services in Northern Ireland.
152 – 153 MHz  MOBILE except aeronautical mobile  UK1, 3.6, 40	UK3.6 152 - 153.0125 MHz and 153.0375 - 153.0625 MHz Emergency Services use (see Annex I).  UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E).
153 – 153.5 MHz  MOBILE except aeronautical mobile Meteorological Aids  UK5.14  UK1, 3.6, 12, 40	UK3.6 152 - 153.0125 MHz and 153.0375 - 153.0625 MHz Emergency Services use (see Annex I).  UK5.14 153.0-153.5 MHz – MoD for the Meteorological service.  UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E).
153.5 – 154 MHz  MOBILE except aeronautical mobile Meteorological Aids  UK2, 40	UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E).
154 – 156.4875 MHz  FIXED MOBILE except aeronautical mobile  5.226, 5.A114  UK183  UK1, 3.7, 12, 40	UK3.7 154 - 156 MHz Emergency Services use (see Annex I).  UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E).  UK183 Residual MoD services in Northern Ireland.
156.4875 – 156.5625 MHz  MARITIME MOBILE (distress and calling via DSC)  5.111, 5.226, 5.227  UK1, 12	
156.5625 – 156.7625 MHz  FIXED MOBILE except aeronautical mobile (R)  5.226  UK183  UK1	UK183 Residual MoD services in Northern Ireland.

Region 1	Region 2	Region 3
150.05 – 153 MHz  FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY  5.149	150.05 – 156.4875 MHz  FIXED MOBILE  5.225	
153 – 154 MHz  FIXED MOBILE except aeronautical mobile (R) Meteorological Aids		
154 – 156.4875 MHz  FIXED MOBILE except aeronautical mobile (R)  5.226 5.A114	154 – 156.4875 MHz  FIXED MOBILE except aeronautical mobile (R)  5.226	154 – 156.4875 MHz  FIXED MOBILE except aeronautical mobile (R)  5.226 5.A114
156.4875 – 156.5625 MHz  MARITIME MOBILE (distress and calling via DSC)  5.111 5.226 5.227		
156.5625 – 156.7625 MHz  FIXED MOBILE except aeronautical mobile (R)  5.226	156.5625 – 156.7625 MHz  FIXED MOBILE  5.225 5.226	

Allocation to United Kingdom Services	Comments
<p>156.7625 – 156.7875 MHz</p> <p>MARITIME MOBILE Mobile-satellite (Earth-to-space)</p> <p>5.111, 5.226, 5.G110 UK1, 12, 40</p>	<p>UK40 Sonobuoys operate on agreed frequencies in the band 137·0 –162·0 MHz (see Annex E).</p>
<p>156.7875 – 156.8125 MHz</p> <p>MARITIME MOBILE (distress and calling)</p> <p>5.111, 5.226, 5.G110 UK1, 12, 40</p>	<p>UK40 Sonobuoys operate on agreed frequencies in the band 137·0 –162·0 MHz (see Annex E).</p>
<p>156.8125 – 156.8375 MHz</p> <p>MARITIME MOBILE Mobile-satellite (Earth-to-space)</p> <p>5.111, 5.226, 5.G110 UK1, 12, 40</p>	<p>UK40 Sonobuoys operate on agreed frequencies in the band 137·0 –162·0 MHz (see Annex E).</p>
<p>156.8375 – 161.9625 MHz</p> <p>FIXED MOBILE except aeronautical mobile UK 8</p> <p>5.226 UK1, 5.16, 6, 11, 12, 40, EU1</p>	<p>UK5.16 156·8375–157·4375 MHz – Ofcom for the maritime and international maritime service. 157·4375-160·6125 MHz – Ofcom for the Mobile &amp; maritime services. 160·6125-163·03125 MHz – Ofcom for the Mobile, Maritime and international maritime services. 163·03125-168·3125 MHz – Ofcom for the Mobile service. 168·8375-173·9875 MHz – Ofcom for the Mobile service including the use of 169·400-169·825 in accordance with Decision 2005/928/EC.</p> <p>UK40 Sonobuoys operate on agreed frequencies in the band 137·0 –162·0 MHz (see Annex E).</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>



Region 1	Region 2	Region 3
156.7625 – 156.7875 MHz MARITIME MOBILE Mobile-satellite (Earth-to-space) 5.111 5.226 5.G110	156.7625 – 156.7875 MHz MARITIME MOBILE MOBILE-SATELLITE (Earth-to-space) 5.1115.226 5.G110	156.7625 – 156.7875 MHz MARITIME MOBILE Mobile-satellite (Earth-to-space) 5.111 5.226 5.G110
156.7875 - 156.8125 MHz MARITIME MOBILE (distress and calling) 5.111 5.226		
156.8125 – 156.8375 MHz MARITIME MOBILE Mobile-satellite (Earth-to-space) 5.111 5.226 5.G110	156.8125 – 156.8375 MHz MARITIME MOBILE MOBILE-SATELLITE (Earth-to-space) 5.111 5.226 5.G110	156.8125 – 156.8375 MHz MARITIME MOBILE Mobile-satellite (Earth-to-space) 5.111 5.226 5.G110
156.8375 – 161.9625 MHz FIXED MOBILE except aeronautical mobile 5.226	156.8375 – 161.9625 MHz FIXED MOBILE 5.226	

Allocation to United Kingdom Services	Comments
<p>161.9625 – 161.9875 MHz</p> <p>FIXED MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.F110</p> <p>5.226, 5.A110, 5.B110 UK1, 5.16, 6, 11, 12, 40, EU1</p>	<p>UK5.16 156·8375–157·4375 MHz – Ofcom for the maritime and international maritime service. 157·4375-160·6125 MHz – Ofcom for the Mobile &amp; maritime services. 160·6125-163·03125 MHz – Ofcom for the Mobile, Maritime and international maritime services. 163·03125-168·3125 MHz – Ofcom for the Mobile service. 168·8375-173·9875 MHz – Ofcom for the Mobile service including the use of 169·400-169·825 in accordance with Decision 2005/928/EC.</p> <p>UK40 Sonobuoys operate on agreed frequencies in the band 137·0 –162·0 MHz (see Annex E).</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>161.9875 – 162.0125 MHz</p> <p>FIXED MOBILE except aeronautical mobile</p> <p>5.226 5.229 UK1, 5.16, 6, 11, 12, 40, 48, EU1</p>	<p>UK5.16 156·8375–157·4375 MHz – Ofcom for the maritime and international maritime service. 157·4375-160·6125 MHz – Ofcom for the Mobile &amp; maritime services. 160·6125-163·03125 MHz – Ofcom for the Mobile, Maritime and international maritime services. 163·03125-168·3125 MHz – Ofcom for the Mobile service. 168·8375-173·9875 MHz – Ofcom for the Mobile service including the use of 169·400-169·825 in accordance with Decision 2005/928/EC.</p> <p>UK40 Sonobuoys operate on agreed frequencies in the band 137·0 –162·0 MHz (see Annex E).</p> <p>UK48 Sonobuoys (162-174 MHz) may be used near UK coasts for training and in emergencies. If harmful interference to radio services operating in accordance with the UK Frequency Allocation Table occurs sonobuoy operations should cease immediately.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>

Region 1	Region 2	Region 3
<p>161.9625 – 161.9875 MHz</p> <p>FIXED MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.F110</p> <p>5.226 5.A110 5.B110</p>	<p>161.9625 – 161.9875 MHz</p> <p>AERONAUTICAL MOBILE (OR) MARITIME MOBILE MOBILE-SATELITE (Earth-to-space)</p> <p>5.C110 5.D110</p>	<p>161.9625 – 161.9875 MHz</p> <p>MARITIME MOBILE Aeronautical mobile (OR) 5.E110 Mobile-satellite (Earth-to-space) 5.F110</p> <p>5.226</p>
<p>161.9875 – 162.0125 MHz</p> <p>FIXED MOBILE except aeronautical mobile</p> <p>5.226 5.229</p>	<p>161.9875 – 162.0125 MHz</p> <p>FIXED MOBILE</p> <p>5.226</p>	

Allocation to United Kingdom Services	Comments
<p>162.0125 – 162.0375 MHz</p> <p>FIXED MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.F110</p> <p>5.226 5.229 5.A110 5.B110 UK1, 5.16, 6, 11, 12, 48, EU1</p>	<p>UK5.16 156.8375–157.4375 MHz – Ofcom (for the maritime and international maritime service) 157.4375-160.6125 MHz – Ofcom (for the Mobile &amp; maritime services) 160.6125-163.03125 MHz – Ofcom (for the Mobile, Maritime and international maritime services) 163.03125-168.3125 MHz – Ofcom (for the Mobile service) 168.8375-173.9875 MHz – Ofcom (for the Mobile service including the use of 169.400-169.825 in accordance with Decision 2005/928/EC).</p> <p>UK48 Sonobuoys (162-174 MHz) may be used near UK coasts for training and in emergencies. If harmful interference to radio services operating in accordance with the UK Frequency Allocation Table occurs sonobuoy operations should cease immediately.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>162.0375 – 174 MHz</p> <p>FIXED MOBILE except aeronautical mobile</p> <p>5.226 5.229 UK1, 3.8, 5.16, 6, 11, 12, 48, EU1, EU2</p>	<p>UK3.8 168.3125 - 168.8375 MHz and 173.9875 - 174.0000 MHz Emergency Services use (see Annex I).</p> <p>UK5.16 156.8375–157.4375 MHz – Ofcom (for the maritime and international maritime service) 157.4375-160.6125 MHz – Ofcom (for the Mobile &amp; maritime services) 160.6125-163.03125 MHz – Ofcom (for the Mobile, Maritime and international maritime services) 163.03125-168.3125 MHz – Ofcom (for the Mobile service) 168.8375-173.9875 MHz – Ofcom (for the Mobile service including the use of 169.400-169.825 in accordance with Decision 2005/928/EC).</p> <p>UK48 Sonobuoys (162-174 MHz) may be used near UK coasts for training and in emergencies. If harmful interference to radio services operating in accordance with the UK Frequency Allocation Table occurs sonobuoy operations should cease immediately.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU2 Commission Decisions 2005/928/EC and 2008/673/EC (harmonised use of 169.4-169.8125 MHz) applies.</p>

Region 1	Region 2	Region 3
<p>162.0125 – 162.0375 MHz</p> <p>FIXED MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.F110</p> <p>5.226 5.229 5.A110 5.B110</p>	<p>162.0125 – 62.0375 MHz</p> <p>AERONAUTICAL MOBILE (OR) MARITIME MOBILE MOBILE-SATELITE (Earth-to-space)</p>	<p>162.0125 – 162.0375 MHz</p> <p>MARITIME MOBILE Aeronautical mobile (OR) 5.E110 Mobile-satellite (Earth-to-space) 5.F110</p>
<p>162.0375-174 MHz</p> <p>FIXED MOBILE except aeronautical mobile</p> <p>5.226 5.229</p>	<p>162.0375-174 MHz</p> <p>FIXED MOBILE</p> <p>5.226 5.230 5.231 5.232</p>	

Allocation to United Kingdom Services	Comments
<p>174 – 217.5MHz</p> <p>BROADCASTING MOBILE except aeronautical mobile</p> <p>5.235                      UK1, 8, 11, 27, 49, 222, 223, EU1</p>	<p>UK27    Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK49    216-225 MHz – MoD for the Radiolocation service.</p> <p>UK222   The Geneva 2006 agreement (GE06) applies to the bands 174 – 230 MHz and 470 – 862 MHz.</p> <p>UK223   The Wiesbaden 1995 (WI95), and Maastricht (MA02) Regional Agreements as revised in Constanta in 2007 (Co07), are applicable to the bands 47 – 68 MHz, 87.5 – 108 MHz, 174 – 230 MHz, 230 – 240 MHz and 1452 – 1492 MHz.</p> <p>EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>217.5 – 230 MHz</p> <p>BROADCASTING Mobile</p> <p>UK1, 8,10, 49, 222, 223</p>	<p>UK49    216-225 MHz – MoD for the Radiolocation service.</p> <p>UK222   The Geneva 2006 agreement (GE06) applies to the bands 174 – 230 MHz and 470 – 862 MHz.</p> <p>UK223   The Wiesbaden 1995 (WI95), and Maastricht (MA02) Regional Agreements as revised in Constanta in 2007 (Co07), are applicable to the bands 47 – 68 MHz, 87.5 – 108 MHz, 174 – 230 MHz, 230 – 240 MHz and 1452 – 1492 MHz.</p>
<p>230 – 235 MHz</p> <p>FIXED MOBILE Radiolocation</p> <p>UK2, 10, 223</p>	<p>UK223   The Wiesbaden 1995 (WI95), and Maastricht (MA02) Regional Agreements as revised in Constanta in 2007 (Co07), are applicable to the bands 47 – 68 MHz, 87.5 – 108 MHz, 174 – 230 MHz, 230 – 240 MHz and 1452 – 1492 MHz.</p>

Region 1	Region 2	Region 3
174 – 223 MHz  BROADCASTING  5.235 5.237 5.243	174 – 216 MHz  BROADCASTING Fixed Mobile  5.234	174 – 223 MHz  FIXED MOBILE BROADCASTING  5.233 5.238 5.240 5.245
	216 – 220 MHz  FIXED MARITIME MOBILE Radiolocation 5.241  5.242	
	220 – 225 MHz  AMATEUR FIXED MOBILE Radiolocation 5.241	
223 – 230 MHz  BROADCASTING Fixed Mobile  5.243 5.246 5.247	225 – 235 MHz  FIXED MOBILE	223 – 230 MHz  FIXED MOBILE BROADCASTING AERONAUTICAL RADIONAVIGATION Radiolocation  5.250
230 – 235 MHz  FIXED MOBILE  5.247 5.251 5.252		230 – 235 MHz  FIXED MOBILE AERONAUTICAL RADIONAVIGATION  5.250

Allocation to United Kingdom Services	Comments
<p>235 – 328.6 MHz</p> <p>FIXED MOBILE Radiolocation Radio Astronomy Mobile Satellite</p> <p>5.111, 5.199, 5.256, 5.257 UK2, 10, 12, 54, 55, 223</p>	<p>UK54 The Mobile-Satellite service operates in the band 235 - 322 MHz. The conditions stated in 5.254 and 5.255 concerning harmful interference do not apply in the UK.</p> <p>UK55 The frequency 243 MHz is a military distress frequency and may also be used in accordance with 5.111, 5.199, and 5.256.</p> <p>UK223 The Wiesbaden 1995 (WI95), and Maastricht (MA02) Regional Agreements as revised in Constanta in 2007 (Co07), are applicable to the bands 47 – 68 MHz, 87.5 – 108 MHz, 174 – 230 MHz, 230 – 240 MHz and 1452 – 1492 MHz.</p>



Region 1	Region 2	Region 3
235 – 267 MHz  FIXED MOBILE  5.111 5.199 5.252 5.254 5.256 5.256A		
267 – 272 MHz  FIXED MOBILE Space Operation (space-to-Earth)  5.254 5.257		
272 – 273 MHz  SPACE OPERATION (space-to-Earth) FIXED MOBILE  5.254		
273 – 312 MHz  FIXED MOBILE  5.254		
312 – 315 MHz  FIXED MOBILE Mobile-Satellite (Earth-to-space) 5.254 5.255		
315 – 322 MHz  FIXED MOBILE  5.254		
322 – 328.6 MHz  FIXED MOBILE RADIO ASTRONOMY  5.149		

Allocation to United Kingdom Services	Comments
328.6 – 335.4 MHz  AERONAUTICAL RADIONAVIGATION  5.258 UK4.23, 212	UK4.23 328.6-335.4 MHz – CAA/MoD. UK212 All aeronautical assignments in this band are undertaken by the CAA.
335.4 – 399.9 MHz  FIXED MOBILE Mobile-Satellite 5.208A, 5.208B, 5.254, 5.255  UK8  UK 2, 3.10, 56	UK3.10 380-385 MHz and 390-395 MHz – Emergency Services use, subject to agreement between Ofcom and the SG – details contained in SSO(N)(00)11(see Annex I). UK56 The Mobile-Satellite service operates in the band 335.4-399.9 MHz. The conditions stated in 5.254 and 5.255 concerning harmful interference do not apply in the UK.
399.9 – 400.05 MHz  MOBILE-SATELLITE (Earth-to-space) 5.209 RADIONAVIGATION-SATELLITE 5.222, 5.224B, 5.260  5.220 UK1	
400.05 – 400.15 MHz  STANDARD FREQUENCY AND TIME SIGNAL SATELLITE (400.1 MHz)  5.261 UK1	
400.15 – 401 MHz  METEOROLOGICAL AIDS UK224 METEOROLOGICAL-SATELLITE MOBILE-SATELLITE 5.208A, 5.208B, 5.209 SPACE RESEARCH 5.263 Space Operations 5.263  5.264 UK2, 57	UK224 The Meteorological Aids service is primary user of the band.

Region 1	Region 2	Region 3
328·6 – 335·4 MHz AERONAUTICAL RADIONAVIGATION 5.258 5.259		
335·4 – 387 MHz FIXED MOBILE 5.254		
387 – 390 MHz FIXED MOBILE Mobile-Satellite (space-to-Earth) 5.208A 5.208B 5.254 5.255		
390 – 399·9 MHz FIXED MOBILE 5.254		
399·9 – 400·05 MHz MOBILE-SATELLITE (Earth-to-space) 5.209 5.224A RADIONAVIGATION-SATELLITE 5.222 5.224B 5.260 5.220		
400·05 – 400·15 MHz STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400·1 MHz) 5.261 5.262		
400·15 – 401 MHz METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.208A 5.208B 5.209 SPACE RESEARCH (space-to-Earth) 5.263 Space Operation (space-to-Earth) 5.262 5.264		

Allocation to United Kingdom Services	Comments
<p>401 – 406 MHz</p> <p>FIXED METEOROLOGICAL-AIDS MOBILE Except Aeronautical SPACE OPERATION Meteorological-Satellite (Earth to space)</p> <p>UK224 UK60 UK59 UK61</p> <p>UK2, 11, EU1</p>	<p>UK59 The Space Operation service is limited to 401-402 MHz.</p> <p>UK60 The Aeronautical Mobile service is limited to airborne transmissions in connection with the telemetering operations in the bands 401-406 MHz and 406.1-417.5 MHz.</p> <p>UK61 The Meteorological-Satellite service is limited to 401-403 MHz.</p> <p>UK224 The Meteorological Aids service is primary user of the band.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>406 – 406.1 MHz</p> <p>MOBILE-SATELLITE (Earth to space)</p> <p>5.266, 5.267</p> <p>UK1, 12, 210</p>	<p>UK210 In future decisions on use or release of spectrum at 406.1-410.0 MHz, the MoD, acting with the DfT on behalf of CAA and MCA, will take into consideration the operational implications for the Cospas-Sarat system at 406.0-406.1 MHz.</p>
<p>406.1 – 410 MHz</p> <p>FIXED MOBILE RADIO ASTRONOMY Radiolocation</p> <p>UK60 UK5.17, 10</p> <p>5.149</p> <p>UK2, 60, 210, 211</p>	<p>UK5.17 Ofcom for the Radio Astronomy service.</p> <p>UK60 The Aeronautical Mobile service is limited to airborne transmissions in connection with the telemetering operations in the bands 401-406 MHz and 406.1-417.5 MHz.</p> <p>UK210 In future decisions on use or release of spectrum at 406.1-410.0 MHz, the MoD, acting with the DfT on behalf of CAA and MCA, will take into consideration the operational implications for the Cospas-Sarat system at 406.0-406.1 MHz.</p> <p>UK211 RSA has now been granted in the 406.1-430.0 MHz band – see General Note 6.</p>

Region 1	Region 2	Region 3
401 – 402 MHz  METEOROLOGICAL AIDS SPACE OPERATION (space-to-Earth) EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile		
402 – 403 MHz  METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile		
403 – 406 MHz  METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile		
406 – 406.1 MHz  MOBILE-SATELLITE (Earth-to-space)  5.266 5.267		
406.1 – 410 MHz  FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY  5.149		

Allocation to United Kingdom Services	Comments
<p>410 – 420 MHz</p> <p>FIXED MOBILE Space Research 5.268</p> <p>UK8, 60</p> <p>UK2, 3.11, 4.24, 11, 188, 211, EU1</p>	<p>UK3.11 410 - 412 MHz Emergency Services use (see Annex I).</p> <p>UK4.24 410-412 MHz – DH for the emergency services with MoD rights defined (see Annex I). 412-414 MHz – Ofcom awarded with MoD rights defined. 414-420 MHz – MoD.</p> <p>UK60 The Aeronautical Mobile service is limited to airborne transmissions in connection with the telemetering operations in the bands 401–406 MHz and 406·1-417·5 MHz.</p> <p>UK188 The bands 412-414 MHz and 422-424 MHz have been awarded by Ofcom by auction (see General Note 5.2, c).</p> <p>UK211 RSA has now been granted in the 406·1-430·0 MHz band (see General Note 6).</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>420 – 430 MHz</p> <p>FIXED MOBILE RADIOLOCATION</p> <p>5.269</p> <p>UK4.25, 8, 158</p> <p>UK2, 3.12, 27, 188, 211</p>	<p>UK3.12 420 - 422 MHz Emergency Services use (see Annex I).</p> <p>UK4.25 420-422 MHz – DH for the emergency services with MoD rights defined (see Annex I). 422-424 MHz – Ofcom – awarded with MoD rights defined. 424-430 MHz – MoD.</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK158 425-429 MHz – Ofcom for Land Mobile services, by arrangement with the MoD (see Annex C).</p> <p>UK188 The bands 412-414 MHz and 422-424 MHz have been awarded by Ofcom by auction (see General Note 5.2, c).</p> <p>UK211 RSA has now been granted in the 406·1-430·0 MHz band (see General Note 6).</p>

Region 1	Region 2	Region 3
<p>410 – 420 MHz</p> <p>FIXED  MOBILE except aeronautical mobile  SPACE RESEARCH (space-to-space) 5.268</p>		
<p>420 – 430 MHz</p> <p>FIXED  MOBILE except aeronautical mobile  Radiolocation</p> <p>5.269 5.270 5.271</p>		

Allocation to United Kingdom Services	Comments
<p>430 – 440 MHz</p> <p>FIXED MOBILE RADIOLOCATION Amateur-Satellite Amateur</p> <p>5.138, 5.282</p> <p>UK8, 64, 65 UK 63 UK7 UK7</p> <p>UK2, 6, 11, EU1</p>	<p>UK63 The civil Radiolocation service operates on 432.5 MHz, 438.0 MHz, and 445.25 MHz in accordance with the Oslo Agreement, 1983.</p> <p>UK64. The Aeronautical Mobile service is limited to airborne transmissions in connection with the telemetry operations in the band 432.5-450.0 MHz.</p> <p>UK65 By special arrangement civil Land Mobile services may operate within sub-bands 425.0-429.0 MHz, 431.0-432.0 MHz, 440.0-443.5 MHz, and 445.5-449.5 MHz in agreed areas and on a non-interference basis to military services (see Annex C.)</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>440 – 450 MHz</p> <p>FIXED MOBILE RADIOLOCATION</p> <p>5.269, 5.286</p> <p>UK8, 64, 65, 174 UK63</p> <p>UK2, 11, 27, EU1</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK63 The civil Radiolocation service operates on 432.5 MHz, 438.0 MHz, and 445.25 MHz in accordance with the Oslo Agreement, 1983.</p> <p>UK64. The Aeronautical Mobile service is limited to airborne transmissions in connection with the telemetry operations in the band 432.5-450.0 MHz.</p> <p>UK65 By special arrangement civil Land Mobile services may operate within sub-bands 425.0-429.0 MHz, 431.0-432.0 MHz, 440.0-443.5 MHz, and 445.5-449.5 MHz in agreed areas and on a non-interference basis to military services (see Annex C.)</p> <p>UK174 446.0-446.2 MHz – Ofcom for PMR 446. By agreement with the MoD. ERC Decision (98)25.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>



Region 1	Region 2	Region 3
430 – 432 MHz  AMATEUR RADIOLOCATION  5.271 5.272 5.273 5.274 5.275 5.276 5.277	430 – 432 MHz  RADIOLOCATION Amateur  5.271 5.276 5.277 5.278 5.279	
432 – 438 MHz  AMATEUR RADIOLOCATION Earth exploration-satellite (active) 5.279A  5.138 5.271 5.272 5.276 5.277 5.280 5.281 5.282	432 – 438 MHz  RADIOLOCATION Amateur Earth exploration-satellite (active) 5.279A  5.271 5.276 5.277 5.278 5.279 5.281 5.282	
438 – 440 MHz  AMATEUR RADIOLOCATION  5.271 5.273 5.274 5.275 5.276 5.277 5.283	438 – 440 MHz  RADIOLOCATION Amateur  5.271 5.276 5.277 5.278 5.279	
440 – 450 MHz  FIXED MOBILE except aeronautical mobile Radiolocation  5.269 5.270 5.271 5.284 5.285 5.286		

Allocation to United Kingdom Services	Comments
<p>450 – 470 MHz</p> <p>FIXED MOBILE</p> <p>UK68</p> <p>5.209, 5.286, 5.286A, 5.287, 5.289 UK1, 3.13, 4.26, 11, 27, EU1</p>	<p>UK3.13 450-470 MHz – various frequencies for Emergency Services use (see Annex I).</p> <p>UK4.26 453.0–454.9875 MHz Ofcom for the Land Mobile service 455.475–455.850 MHz – CAA 456.0–457.0 MHz Ofcom for the Land Mobile service 457.5–458.5 MHz Ofcom for scanning telemetry 458.5–460.5 MHz Ofcom for the Land Mobile service 460.75–461.225 MHz – CAA 461.225–462.5 MHz Ofcom for the Land Mobile service 463.0–464.0 MHz Ofcom for scanning telemetry</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK68 The following frequencies are used on board ships on a primary basis: 457.525 MHz, 457.550 MHz and 457.575 MHz paired with 467.525 MHz, 467.550 MHz and 467.575 MHz. 457.5375 MHz, 457.5625 MHz, 467.5375 MHz and 467.5625 MHz may also be used where needed.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>

Region 1	Region 2	Region 3
450 – 455 MHz  FIXED MOBILE 5.286AA  5.209 5.271 5.286 5.286A 5.286B 5.286C 5.286D 5.286E		
455 – 456 MHz  FIXED MOBILE 5.286AA  5.209 5.271 5.286A 5.286B 5.286C 5.286E	455 – 456 MHz  FIXED MOBILE 5.286AA MOBILE-SATELLITE (Earth-to-space) 5.286A 5.286B 5.286C  5.209	455 – 456 MHz  FIXED MOBILE 5.286AA  5.209 5.271 5.286A 5.286B 5.286C 5.286E
456 – 459 MHz  FIXED MOBILE 5.286AA  5.271 5.287 5.288		
459 – 460 MHz  FIXED MOBILE 5.286AA  5.209 5.271 5.286A 5.286B 5.286C 5.286E	459 – 460 MHz  FIXED MOBILE 5.286AA MOBILE-SATELLITE (Earth-to-space) 5.286A 5.286B 5.286C  5.209	459 – 460 MHz  FIXED MOBILE 5.286AA  5.209 5.271 5.286A 5.286B 5.286C 5.286E
460 – 470 MHz  FIXED MOBILE 5.286AA Meteorological-Satellite (space-to-Earth)  5.287 5.288 5.289 5.290		

Allocation to United Kingdom Services	Comments
<p>470 – 790 MHz</p> <p>BROADCASTING Mobile</p> <p>5.149 5.296 5.306 5.312A UK1, 8, 10, 11, 27, 72, 189, 214, 222, EU1</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK72 Subject to prior agreement between Ofcom and the MoD, limited access is permitted to the band 606-790 MHz for testing and development of military equipment for emergency operation. Such access shall not in any way interfere with or restrict the planning or operation of television broadcasting, OB services, or any transmissions for testing and development associated with television services.</p> <p>UK189 The band 470-790 MHz is the subject of Ofcom's UHF Strategy Review which covers the future use of this spectrum and the next WRC-15 decision on mobile use of the 700MHz Band. In the meantime, the UK Table reflects the international allocations as modified by WRC-12.</p> <p>UK214 The bands 542-550 MHz in the Cardiff area and 758-766 MHz in the Manchester area have been awarded by Ofcom by auction. See general note 5.2, c).</p> <p>UK222 The Geneva 2006 agreement (GE06) applies to the bands 174 – 230 MHz and 470 – 862 MHz.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>790 – 862MHz</p> <p>BROADCASTING FIXED MOBILE except aeronautical mobile 5.316B 5.317A</p> <p>5.314 5.316</p> <p>UK8 UK8 UK1, 10, 215, 222, EU4</p>	<p>UK215 The band 790-862 MHz has been identified for award by Ofcom by auction – see General Note 5.2, c).</p> <p>UK222 The Geneva 2006 agreement (GE06) applies to the bands 174 – 230 MHz and 470 – 862 MHz.</p> <p>EU4 Commission Decision 2010/267/EU (harmonised use of 790-862 MHz for terrestrial systems capable of providing electronic communications services) applies.</p>
<p>862 – 870 MHz</p> <p>MOBILE</p> <p>5.317A</p> <p>UK1, 3.14, 6, 11, EU1, EU5</p>	<p>UK3.14 862-863 MHz - Emergency Services use (see Annex I).</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU5 Commission Decision 2006/804/EC (harmonised use of 865-868 MHz for RFID) applies.</p>

Region 1	Region 2	Region 3
470 – 790 MHz  BROADCASTING  5.149 5.291A 5.294 5.296 5.300 5.302(sup) 5.304 5.306 5.311A 5.312 5.312A	470 – 512 MHz  BROADCASTING Fixed Mobile  5.292 5.293	470 – 585 MHz  FIXED MOBILE BROADCASTING  5.291 5.298
	512 – 608 MHz  BROADCASTING  5.297	585 – 610 MHz  FIXED MOBILE BROADCASTING RADIONAVIGATION  5.149 5.305 5.306 5.307
	608 – 614 MHz  RADIO ASTRONOMY Mobile-Satellite except aeronautical mobile- satellite (Earth-to-space)	610 – 890 MHz  FIXED MOBILE 5.313A 5.317A BROADCASTING  5.149 5.305 5.306 5.307 5.311A 5.320
	614 – 698 MHz  BROADCASTING Fixed Mobile  5.293 5.309 5.311A	
790 – 862 MHz  FIXED BROADCASTING MOBILE except aeronautical mobile 5.316B 5.317A  5.312 5.314 5.315 5.316 5.316A 5.319	698 – 806 MHz  BROADCASTING Fixed MOBILE 5.313B 5.317A  5.293 5.309 5.311A	
862 – 890 MHz  FIXED MOBILE except aeronautical mobile 5.317A BROADCASTING 5.322  5.319 5.323	806 – 890 MHz  FIXED MOBILE 5.317A BROADCASTING  5.317 5.318	

Allocation to United Kingdom Services	Comments
870 – 876 MHz  MOBILE  5.317A  UK8, 74  UK4.28	UK4.28 870-872 MHz – MoD 872-876 MHz – Ofcom  UK74 Civil systems may also operate in 871-872 MHz and 916-917 MHz on a non-protected basis in accordance with the agreement between MoD and Ofcom.
876 – 880 MHz  MOBILE  5.317A  UK1, 181	UK181 The GSM-R system operates in this band.
880 – 915 MHz  FIXED MOBILE Radiolocation  5.317A, 5.317A  UK8  UK1, 5.18, 6, EU3, EU13, EU14	UK5.18 880-915 MHz – Ofcom (for the Fixed and Mobile services) 890-915 MHz – MoD (for the Radiolocation service)  EU3 Commission Decisions 87/372/ECC, 2009/766/EC and 2011/251/EU (harmonised use of 880-915 MHz, 925-960 MHz, 1710-1785 MHz and 1805-1880 MHz) applies.  EU13 Commission Decision 2010/166/EU (harmonised use of spectrum for mobile communication services on board vessels (MCV services)) applies.  EU14 Commission Decision 2008/294/EC (harmonised use of spectrum for mobile communication services on aircraft (MCA services)) applies.
915 – 921 MHz  MOBILE Radiolocation  5.317A  UK8, 74  UK4.29	UK4.29 915-917 – MoD for the Radiolocation service.. 917-921 MHz – Ofcom for the Mobile service. MoD for the Radiolocation service.  UK74 Civil systems may also operate in 871-872 MHz and 916-917 MHz on a non-protected basis in accordance with the agreement between MoD and Ofcom.
921 – 925 MHz  MOBILE Radiolocation  5.317A  UK1, 181	UK181 The GSM-R system operates in this band.

Region 1	Region 2	Region 3
Cont... 862 – 890 MHz FIXED MOBILE except aeronautical mobile 5.317A BROADCASTING 5.322 5.319 5.323	Cont... 806 – 890 MHz FIXED MOBILE 5.317A BROADCASTING 5.317 5.318	Cont... 610 – 890 MHz FIXED MOBILE 5.313A 5.317A BROADCASTING 5.149 5.305 5.306 5.307 5.311A 5.320
890 – 942 MHz FIXED MOBILE except aeronautical mobile 5.317A BROADCASTING 5.322 Radiolocation 5.323	890 – 902 MHz FIXED MOBILE except aeronautical mobile 5.317A Radiolocation 5.318 5.325	890 – 942 MHz FIXED MOBILE 5.317A BROADCASTING Radiolocation 5.327
	902 – 928 MHz FIXED Amateur Mobile except aeronautical mobile 5.325A Radiolocation 5.150 5.325 5.326	
	928 – 942 MHz FIXED MOBILE except aeronautical mobile 5.317A Radiolocation 5.325	

Allocation to United Kingdom Services	Comments
<p>925 – 960 MHz</p> <p>FIXED MOBILE Radiolocation</p> <p>5.317A</p> <p>UK8</p> <p>UK1, 5.19, 10, EU3, EU13, EU14</p>	<p>UK5.19 925-960 MHz – Ofcom for the Fixed and Mobile services. 925-942 MHz – MoD for the Radiolocation service.</p> <p>EU3 Commission Decisions 87/372/ECC, 2009/766/EC and 2011/251/EU (harmonised use of 880-915 MHz, 925-960 MHz, 1710-1785 MHz and 1805-1880 MHz) applies.</p> <p>EU13 Commission Decision 2010/166/EU (harmonised use of spectrum for mobile communication services on board vessels (MCV services)) applies.</p> <p>EU14 Commission Decision 2008/294/EC (harmonised use of spectrum for mobile communication services on aircraft (MCA services)) applies.</p>
<p>960 – 1164 MHz</p> <p>AERONAUTICAL MOBILE (R) 5.327A AERONAUTICAL RADIONAVIGATION 5.328</p> <p>UK4.30, 10, 82, 212</p>	<p>UK4.30 960-1164 MHz – CAA/MoD</p> <p>UK82 960-1215 MHz – MoD communications systems operate with the agreement of CAA.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p>
<p>1164 – 1215 MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.328 RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B</p> <p>5.328A</p> <p>UK212</p> <p>UK212</p> <p>UK4.31, 10, 82</p>	<p>UK4.31 1164-1215 MHz – CAA/MoD</p> <p>UK82 960-1215 MHz – MoD communications systems operate with the agreement of CAA.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p>
<p>1215 – 1240 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space to Earth) (space to space) 5.329 5.329A SPACE RESEARCH (active)</p> <p>5.331, 5.332</p> <p>UK5.20 UK81</p> <p>UK4.32</p>	<p>UK4.32 1215-1240 MHz – CAA/MoD for the Radionavigation service.</p> <p>UK5.20 1215-1260 MHz - MoD for the Radiolocation service.</p> <p>UK81 Services operating in the band 1215-1350 MHz are subject to coordination with CAA and MoD. Services in the band 1350-1365 MHz are subject to co-ordination with Ofcom.</p>



Region 1	Region 2	Region 3
<p>942 – 960 MHz</p> <p>FIXED MOBILE except aeronautical mobile 5.317A BROADCASTING 5.322</p> <p>5.323</p>	<p>942 – 960 MHz</p> <p>FIXED MOBILE 5.317A</p>	<p>942 – 960 MHz</p> <p>FIXED MOBILE 5.317A BROADCASTING</p> <p>5.320</p>
<p>960 – 1164 MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.328 AERONAUTICAL MOBILE (R) 5.327A</p>		
<p>1164 – 1215 MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.328 RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B</p> <p>5.328A</p>		
<p>1215 – 1240 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space). 5.328B 5.329 5.329A SPACE RESEARCH (active)</p> <p>5.330 5.331 5.332</p>		

Allocation to United Kingdom Services	Comments
<p>1240 – 1260 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active)  RADIOLOCATION UK2, 5.21  RADIONAVIGATION UK81  RADIONAVIGATION-SATELLITE (space to Earth) (space to space)  5.329, 5.329A  SPACE RESEARCH (active)  Amateur UK7</p> <p>5.282, 5.331, 5.332, 5.335A UK2, 4.33</p>	<p>UK4.33 1240-1260 MHz – CAA/MoD for the Radionavigation service.</p> <p>UK5.21 1215-1260 MHz - MoD for the Radiolocation service;  1240-1260 MHz - Ofcom for the Amateur service.</p> <p>UK81 Services operating in the band 1215-1350 MHz are subject to coordination with CAA and MoD. Services in the band 1350-1365 MHz are subject to co-ordination with Ofcom.</p>
<p>1260 – 1300 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active)  RADIOLOCATION UK5.22  RADIONAVIGATION UK81  RADIONAVIGATION-SATELLITE (space to Earth) (space to space)  5.329, 5.329A  SPACE RESEARCH (active)  Amateur UK5.22, 7  Amateur-satellite (Earth to space) UK5.22, 7</p> <p>5.149, 5.282, 5.331, 5.335A UK4.34, 83</p>	<p>UK4.34 1260-1300 MHz – CAA/MoD for the Radionavigation service.</p> <p>UK5.22 1260-1270 MHz - Ofcom for the Amateur-Satellite service;  1260-1325 MHz - Ofcom for the Amateur service;  1260-1350 MHz - MoD for the Radiolocation service.</p> <p>UK81 Services operating in the band 1215-1350 MHz are subject to coordination with CAA and MoD. Services in the band 1350-1365 MHz are subject to co-ordination with Ofcom.</p> <p>UK83 Maritime mobile seismic streamer tailbuoys may operate on 1312·5 MHz, 1337·5 MHz, 1362·5 MHz and 1389·5 MHz on a non-interference basis to other users.</p>
<p>1300 – 1350 MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.337  RADIOLOCATION UK5.23  RADIONAVIGATION UK81  RADIONAVIGATION-SATELLITE (Earth to space)  Amateur UK5.23, 7</p> <p>5.149, 5.337A UK4.35, 81, 83</p>	<p>UK4.35 1300-1350 MHz - MoD for the Radiolocation service.</p> <p>UK5.23 1300-1325 MHz – Ofcom for the Amateur service.</p> <p>UK81 Services operating in the band 1215-1350 MHz are subject to coordination with CAA and MoD. Services in the band 1350-1365 MHz are subject to co-ordination with Ofcom.</p> <p>UK83 Maritime mobile seismic streamer tailbuoys may operate on 1312·5 MHz, 1337·5 MHz, 1362·5 MHz and 1389·5 MHz on a non-interference basis to other users.</p>
<p>1350 – 1375 MHz</p> <p>FIXED  MOBILE (except aeronautical mobile) Radiolocation UK5.24, 81</p> <p>5.149, 5.338A, 5.339, UK1, 10, 83</p>	<p>UK5.24 MoD for the Radiolocation service.</p> <p>UK81 Services operating in the band 1215-1350 MHz are subject to coordination with CAA and MoD. Services in the band 1350-1365 MHz are subject to co-ordination with Ofcom.</p> <p>UK83 Maritime mobile seismic streamer tailbuoys may operate on 1312·5 MHz, 1337·5 MHz, 1362·5 MHz and 1389·5 MHz on a non-interference basis to other users.</p>

Region 1	Region 2	Region 3
<p>1240 – 1300 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active)  RADIOLOCATION  RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A  SPACE RESEARCH (active)  Amateur</p> <p>5.282 5.330 5.331 5.332 5.335, 5.335A</p>		
<p>1300 – 1350 MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.337  RADIOLOCATION  RADIONAVIGATION-SATELLITE (Earth to space)</p> <p>5.149 5.337A</p>		
<p>1350 – 1400 MHz</p> <p>FIXED  MOBILE  RADIOLOCATION</p> <p>5.149 5.338, 5.338A 5.339</p>	<p>1350 – 1400 MHz</p> <p>RADIOLOCATION</p> <p>5.149 5.334 5.339</p>	

Allocation to United Kingdom Services	Comments
<p>1375 – 1400 MHz</p> <p>FIXED MOBILE (except aeronautical mobile)</p> <p>5.149, 5.339 UK2, 10, 11, 83</p>	<p>UK83 Maritime mobile seismic streamer tailbuoys may operate on 1312.5 MHz, 1337.5 MHz, 1362.5 MHz and 1389.5 MHz on a non-interference basis to other users.</p>
<p>1400 – 1427 MHz</p> <p>EARTH EXPLORATION –SATELLITE (passive) RADIO ASTRONOMY UK10 SPACE RESEARCH (passive)</p> <p>5.340, 5.341 UK1</p>	
<p>1427 – 1429 MHz</p> <p>FIXED MOBILE SPACE OPERATION (Earth to space)</p> <p>5.338A, 5.341 UK2</p>	
<p>1429 – 1452 MHz</p> <p>FIXED MOBILE</p> <p>5.338A , 5.341 UK2</p>	
<p>1452 – 1492 MHz</p> <p>BROADCASTING 5.345, BROADCASTING-SATELLITE, 5.208B, 5.345 FIXED MOBILE (except aeronautical mobile)</p> <p>5.341 UK1, 193, 223</p>	<p>UK193 The band 1452-1492 MHz has been awarded by Ofcom by auction. See general note 5.2, c). The band is subject to the Maastricht 2002 Special Arrangement (as revised in Constanta in 2007).</p> <p>UK223 The Wiesbaden 1995 (W195), and Maastricht (MA02) Regional Agreements as revised in Constanta in 2007 (Co07), are applicable to the bands 47 – 68 MHz, 87.5 – 108 MHz, 174 – 230 MHz, 230 – 240 MHz and 1452 – 1492 MHz.</p>
<p>1492 – 1518 MHz</p> <p>FIXED MOBILE (except aeronautical mobile)</p> <p>5.341 UK1, 27</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>

Region 1	Region 2	Region 3
Cont...  1350 – 1400 MHz  FIXED MOBILE RADIOLOCATION  5.149 5.338, 5.338A 5.339	Cont...  1350 – 1400 MHz  RADIOLOCATION  5.149 5.334 5.339	
1400 – 1427 MHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 5.341		
1427 – 1429 MHz  SPACE OPERATION (Earth-to-space) FIXED MOBILE except aeronautical mobile  5.338A 5.341		
1429 – 1452 MHz  FIXED MOBILE except aeronautical mobile  5.338A 5.341 5.342	1429 – 1452 MHz  FIXED MOBILE 5.343  5.338A 5.341	
1452 – 1492 MHz  FIXED MOBILE except aeronautical mobile BROADCASTING 5.345 BROADCASTING SATELLITE 5.208B 5.345  5.341 5.342	1452 – 1492 MHz  FIXED MOBILE 5.343 BROADCASTING 5.345 BROADCASTING-SATELLITE 5.208B 5.345  5.341 5.344	
1492 – 1518 MHz  FIXED MOBILE except aeronautical mobile  5.341 5.342	1492 – 1518 MHz  FIXED MOBILE 5.343  5.341 5.344	1492 – 1518 MHz  FIXED MOBILE  5.341

Allocation to United Kingdom Services	Comments
<p>1518 – 1525 MHz</p> <p>FIXED MOBILE (except aeronautical mobile) MOBILE-SATELLITE (space-to-Earth) 5.348, 5.351A</p> <p>5.341 UK1, 27</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>
<p>1525 – 1530 MHz</p> <p>FIXED MOBILE-SATELLITE (space to Earth) 5.347A, 351A SPACE OPERATION (space to Earth) Earth Exploration –Satellite Mobile (except aeronautical mobile)</p> <p>5.341, 5.351, 5.354 UK1</p>	
<p>1530 – 1533 MHz</p> <p>MOBILE-SATELLITE (space to Earth) 5,347A, 5.351A 5.353A SPACE OPERATION (space to Earth) Earth Exploration–Satellite Fixed Mobile (except aeronautical mobile)</p> <p>5.341, 5.351, 5.354 UK1, 12</p>	
<p>1533 – 1535 MHz</p> <p>MOBILE-SATELLITE (space to Earth) 5.351A 5.353A SPACE OPERATION (space to Earth) Earth Exploration–Satellite Mobile (except aeronautical mobile)</p> <p>5.341, 5.351, 5.354 UK1, 12</p>	
<p>1535 – 1559 MHz</p> <p>MOBILE-SATELLITE (space to Earth) 5.347A, 5.351A</p> <p>5.341, 5.351, 5.353A, 5.354, 5.356, 5.357, 5.357A UK1, 12</p>	

Region 1	Region 2	Region 3
1518 – 1525 MHz  FIXED MOBILE except aeronautical mobile MOBILE-SATELLITE (space-to-Earth) 5.348 5.348A 5.348B 5.351A  5.341 5.342	1518 – 1525 MHz  FIXED MOBILE 5.343 MOBILE-SATELLITE (space-to-Earth) 5.348 5.348A 5.348B 5.351A  5.341 5.344	1518 – 1525 MHz  FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.348 5.348A 5.348B 5.351A  5.341
1525 – 1530 MHz  SPACE OPERATION (space-to-Earth) FIXED MOBILE-SATELLITE (space-to-Earth) 5.347A 5.351A Earth Exploration-Satellite Mobile except aeronautical mobile 5.349  5.341 5.342 5.350 5.351 5.352A 5.354	1525 – 1530 MHz  SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.347A 5.351A Earth Exploration-Satellite Fixed Mobile 5.343  5.341 5.351 5.354	1525 – 1530 MHz  SPACE OPERATION (space-to-Earth) FIXED MOBILE-SATELLITE (space-to-Earth) 5.347A 5.351A Earth Exploration-Satellite Mobile 5.349  5.341 5.351 5.352A 5.354
1530 – 1535 MHz  SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.347A 5.351A 5.353A Earth Exploration-Satellite Fixed Mobile except aeronautical mobile  5.341 5.342 5.351 5.354	1530 – 1535 MHz  SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.347A 5.351A 5.353A Earth Exploration-Satellite Fixed Mobile 5.343  5.341 5.351 5.354	
1535 – 1559 MHz  MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A  5.341 5.351 5.353A 5.354 5.355 5.356 5.357 5.357A 5.359 5.362A		

Allocation to United Kingdom Services	Comments
<p>1559 – 1610 MHz</p> <p>AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space to Earth) (space to space) 5.208B, 5.328B, 5.329A</p> <p>5.341 UK4.36</p>	<p>UK4.36 1559·0-1610 MHz – CAA/MoD for the Aeronautical Radionavigation service.</p>
<p>1610 – 1610·6 MHz</p> <p>AERONAUTICAL RADIONAVIGATION MOBILE-SATELLITE (Earth to space) 5.351A</p> <p>5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.371 5.372</p> <p>UK4.37, 10</p>	<p>UK4.37 1610·0-1610·6 MHz – CAA/MoD for the Aeronautical Radionavigation service. Ofcom for the Mobile Satellite service.</p>
<p>1610·6 – 1613·8 MHz</p> <p>AERONAUTICAL RADIONAVIGATION MOBILE-SATELLITE (Earth to space) 5.351A RADIO ASTRONOMY</p> <p>5.149 5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.371 5.372</p> <p>UK4.38, 10</p>	<p>UK4.38 1610·6-1613·8 MHz – CAA/MoD for the Aeronautical Radionavigation service. Ofcom for the Mobile Satellite service.</p>
<p>1613·8 – 1626·5 MHz</p> <p>AERONAUTICAL RADIONAVIGATION MOBILE-SATELLITE (Earth to space) 5.351A Mobile-Satellite (space to Earth)</p> <p>5.341 5.355 5.359 5.364 5.365 5.366 5.367 5.368 5.369 5.371 5.372</p> <p>UK4.39, 10</p>	<p>UK4.39 1613·8-1626·5 MHz – CAA/MoD for the Aeronautical Radionavigation service. Ofcom for the Mobile Satellite service.</p>



Region 1	Region 2	Region 3
1559 – 1610 MHz  AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.208B 5.328B 5.329A  5.341 5.362B 5.362C		
1610 – 1610.6 MHz  MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION  5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.371 5.372	1610 – 1610.6 MHz  MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION RADIODETERMINATION-SATELLITE (Earth-to-space)  5.341 5.364 5.366 5.367 5.368 5.370 5.372	1610 – 1610.6 MHz  MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION Radiodetermination-Satellite (Earth-to-space)  5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.372
1610.6 – 1613.8 MHz  MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION  5.149 5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.371 5.372	1610.6 – 1613.8 MHz  MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION RADIODETERMINATION-SATELLITE (Earth-to-space)  5.149 5.341 5.364 5.366 5.367 5.368 5.370 5.372	1610.6 – 1613.8 MHz  MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION Radiodetermination-Satellite (Earth-to-space)  5.149 5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.372
1613.8 – 1626.5 MHz  MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION Mobile-Satellite (space-to-Earth) 5.208B  5.341 5.355 5.359 5.364 5.365 5.366 5.367 5.368 5.369 5.371 5.372	1613.8 – 1626.5 MHz  MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION RADIODETERMINATION-SATELLITE (Earth-to-space) Mobile-Satellite (space-to-Earth) 5.208B  5.341 5.364 5.365 5.366 5.367 5.368 5.370 5.372	1613.8 – 1626.5 MHz  MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION Mobile-Satellite (space-to-Earth) 5.208B Radiodetermination-Satellite (Earth-to-space)  5.341 5.355 5.359 5.364 5.365 5.366 5.367 5.368 5.369 5.372

Allocation to United Kingdom Services	Comments
1626.5 – 1660 MHz MOBILE-SATELLITE (Earth to space) 5.351A 5.341 5.351 5.353A 5.354 5.355 5.357A 5.359 5.362A 5.374 5.375 5.376 UK1, 12	
1660 – 1660.5 MHz MOBILE-SATELLITE (Earth to space) 5.351A RADIO ASTRONOMY UK10 5.149, 5.341, 5.351, 5.354, 5.376A UK1	
1660.5 – 1668 MHz RADIO ASTRONOMY UK10 SPACE RESEARCH (passive) Fixed Mobile 5.149 5.341 5.379A UK1	
1668 – 1668.4 MHz FIXED MOBILE-SATELLITE (Earth-to-space) 5.348C 5.379B 5.379C RADIO ASTRONOMY UK10 SPACE RESEARCH (passive) Mobile except aeronautical mobile 5.149 5.341 5.379A 5.379D UK1, 3.15	UK3.15 1668-1670 MHz - Emergency Services use (see Annex I).
1668.4 – 1670 MHz FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY UK10 5.149 5.341 5.379D UK1, 3.15	UK3.15 1668-1670 MHz - Emergency Services use (see Annex I).

Region 1	Region 2	Region 3
1626·5 – 1660 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A 5.341 5.351 5.353A 5.354 5.355 5.357A 5.359 5.362A 5.374 5.375 5.376		
1660 – 1660·5 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY 5.149 5.341 5.351 5.354 5.362A 5.376A		
1660·5 – 1668 MHz RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.341 5.379 5.379A		
1668 – 1668·4 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.379C RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.341 5.379 5.379A		
1668·4 – 1670 MHz FIXED METEOROLOGICAL AIDS MOBILE except aeronautical mobile MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.379C RADIO ASTRONOMY 5.149 5.341 5.379D 5.379E		

Allocation to United Kingdom Services	Comments
1670 – 1675 MHz  FIXED METEOROLOGICAL-SATELLITE (space to Earth) MOBILE 5.380 MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B  5.341 5.379D 5.379E 5.380A UK1	
1675 – 1690 MHz  FIXED UK5.25 METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space to Earth) MOBILE except aeronautical mobile UK5.25  5.341 UK1, 3.17	UK3.17 1677-1685 MHz – Emergency Services use (see Annex I).  UK5.25 1675-1677 MHz and 1685-1690 MHz – Ofcom for the Fixed and Mobile service.
1690 – 1698 MHz  METEOROLOGICAL-SATELLITE (space to Earth) UK225 Fixed Mobile except aeronautical mobile  5.289, 5.341 UK1,4.40	UK4.40 1694-1698 MHz– Ofcom for the Fixed and Mobile services.  UK225 RSA has now been granted in the 1690 - 1710 MHz band – see General Note 6.
1698 – 1700 MHz  FIXED UK87 METEOROLOGICAL-SATELLITE UK225 (space to Earth)  5.289, 5.341 UK1, 3.18	UK3.18 1698-1700 MHz – Emergency Services use (see Annex I).  UK87 Services operating within 50 km of Lasham are subject to prior co-ordination with the Ministry of Defence.  UK225 RSA has now been granted in the 1690 - 1710 MHz band – see General Note 6.
1700 – 1710 MHz  FIXED METEOROLOGICAL-SATELLITE (space to Earth) UK225  5.289, 5.341 UK1	UK225 RSA has now been granted in the 1690 - 1710 MHz band – see General Note 6.

Region 1	Region 2	Region 3
1670 – 1675 MHz  METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE 5.380 MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B  5.341 5.379D 5.379E 5.380A		
1675 – 1690 MHz  METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile  5.341		
1690 – 1700 MHz  METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) Fixed Mobile except aeronautical mobile  5.289 5.341 5.382	1690 – 1700 MHz  METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth)  5.289 5.341 5.381	
1700 – 1710 MHz  FIXED METEOROLOGICAL-SATELLITE(space-to-Earth) MOBILE except aeronautical mobile  5.289 5.341		1700 – 1710 MHz  FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile  5.289 5.341 5.384

Allocation to United Kingdom Services	Comments
<p>1710 – 1785 MHz</p> <p>FIXED MOBILE 5.384A Space Operation (Earth to space)</p> <p>5.149, 5.341, 5.385</p> <p>UK8, 162 UK90A</p> <p>UK1, 10, 194, EU3,EU13,EU14</p>	<p>UK90A The Space Operations service is limited to MoD use of 1750·0 -1850·0 MHz at Oakhanger (SU 776 357), Colerne (ST 808 717) and Menwith Hill (SE 210 560). This assignment is recorded for information. The parties concerned will take all practical steps to minimise the impact of the use of the assignment on services operating in accordance with the UK Frequency Allocation Table.</p> <p>UK194 The bands 1781·7-1785·0 MHz and 1876·7-1880·0 MHz have been awarded by Ofcom by auction (see General Note 5.2, c).</p> <p>EU3 Commission Decisions 87/372/ECC, 2009/766/EC and 2011/251/EU (harmonised use of 880-915 MHz, 925-960 MHz, 1710-1785 MHz and 1805-1880 MHz) applies.</p> <p>EU13 Commission Decision 2010/166/EU (harmonised use of spectrum for mobile communication services on board vessels (MCV services)) applies.</p> <p>EU14 Commission Decision 2008/294/EC (harmonised use of spectrum for mobile communication services on aircraft (MCA services)) applies.</p>
<p>1785 – 1800 MHz</p> <p>FIXED MOBILE Space Operation (Earth to space)</p> <p>UK1, 3.19, 11, 27, 195</p> <p>UK90A</p>	<p>UK3.19 1790-1798 MHz - Emergency Services use (see Annex I).</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK90A The Space Operations service is limited to MoD use of 1750·0 -1850·0 MHz at Oakhanger (SU 776 357), Colerne (ST 808 717) and Menwith Hill (SE 210 560). This assignment is recorded for information. The parties concerned will take all practical steps to minimise the impact of the use of the assignment on services operating in accordance with the UK Frequency Allocation Table.</p> <p>UK195 The band 1785-1805 MHz has been awarded by Ofcom by auction in Northern Ireland – see General Note 5.2, c).</p>

Region 1	Region 2	Region 3
<p>1710 – 1930 MHz</p> <p>FIXED</p> <p>MOBILE 5.384A 5.388A 5.388B</p> <p>5.149 5.341 5.385 5.386 5.387 5.388</p>		

Allocation to United Kingdom Services	Comments
<p>1800 – 1805 MHz</p> <p>MOBILE UK8 Fixed Space Operation UK90A (Earth to space)</p> <p>UK1, 10, 195</p>	<p>UK90A The Space Operations service is limited to MoD use of 1750.0-1850.0 MHz at Oakhanger (SU 776 357), Colerne (ST 808 717) and Menwith Hill (SE 210 560). This assignment is recorded for information. The parties concerned will take all practical steps to minimise the impact of the use of the assignment on services operating in accordance with the UK Frequency Allocation Table.</p> <p>UK195 The band 1785-1805 MHz has been awarded by Ofcom by auction in Northern Ireland (see General Note 5.2, c).</p>
<p>1805 – 1880 MHz</p> <p>FIXED MOBILE 5.384A UK162 Space Operation UK90A (Earth to space)</p> <p>UK1, 194, EU3, EU13, EU14</p>	<p>UK90A The Space Operations service is limited to MoD use of 1750.0 -1850.0 MHz at Oakhanger (SU 776 357), Colerne (ST 808 717) and Menwith Hill (SE 210 560). This assignment is recorded for information. The parties concerned will take all practical steps to minimise the impact of the use of the assignment on services operating in accordance with the UK Frequency Allocation Table.</p> <p>UK194 The bands 1781.7-1785.0 MHz and 1876.7-1880.0 MHz have been awarded by Ofcom by auction ( see General Note 5.2, c).</p> <p>EU3 Commission Decisions 87/372/ECC, 2009/766/EC and 2011/251/EU (harmonised use of 880-915 MHz, 925-960 MHz, 1710-1785 MHz and 1805-1880 MHz) applies.</p> <p>EU13 Commission Decision 2010/166/EU (harmonised use of spectrum for mobile communication services on board vessels (MCV services)) applies.</p> <p>EU14 Commission Decision 2008/294/EC (harmonised use of spectrum for mobile communication services on aircraft (MCA services)) applies.</p>
<p>1880 – 1885 MHz</p> <p>MOBILE 5.388A UK164 Fixed</p> <p>UK1</p>	<p>UK164 Ofcom for the Digital Enhanced Cordless Telecommunications (DECT) Service operating in 1880-1900 MHz.</p>
<p>1885 – 1900 MHz</p> <p>MOBILE 5.388A UK164, 165 Fixed</p> <p>5.388 UK1</p>	<p>UK164 Ofcom for the Digital Enhanced Cordless Telecommunications (DECT) Service operating in 1880-1900 MHz.</p> <p>UK165 Ofcom for electronic communications services operating in the bands:-1899.9-1980 MHz and 2110-2170 MHz.</p>



Region 1	Region 2	Region 3
<p>Cont...</p> <p>1710 – 1930 MHz</p> <p>FIXED</p> <p>MOBILE 5.384A 5.388A 5.388B</p> <p>5.149 5.341 5.385 5.386 5.387 5.388</p>		

Allocation to United Kingdom Services	Comments
<p>1900 – 1980 MHz</p> <p>FIXED MOBILE 5.388A UK8, 165</p> <p>5.388 UK1, EU3, EU13, EU14</p>	<p>UK165 Ofcom for electronic communications services operating in the bands 1899-9-1980 MHz and-2110-2170 MHz.</p> <p>EU3 Commission Decisions 87/372/ECC, 2009/766/EC and 2011/251/EU (harmonised use of 880-915 MHz, 925-960 MHz, 1710-1785 MHz and 1805-1880 MHz) applies.</p> <p>EU13 Commission Decision 2010/166/EU (harmonised use of spectrum for mobile communication services on board vessels (MCV services)) applies.</p> <p>EU14 Commission Decision 2008/294/EC (harmonised use of spectrum for mobile communication services on aircraft (MCA services)) applies.</p>
<p>1980 – 2010 MHz</p> <p>FIXED MOBILE MOBILE-SATELLITE (Earth to space) 5.351A</p> <p>5.388, 5.389A, 5.389B UK1, EU6</p>	<p>EU6 Commission Decision 2007/98/EC (harmonised use of 1980-2010 MHz and 2170 - 2200 MHz for MSS) applies.</p>
<p>2010 – 2025 MHz</p> <p>FIXED MOBILE UK8</p> <p>5.388 UK1, 197</p>	<p>UK197 The band 2010 - 2025 MHz has been identified for award by Ofcom by auction (see General Note 5.2, c).</p>
<p>2025 – 2110 MHz</p> <p>EARTH EXPLORATION SATELLITE (Earth to space) (space to space) MOBILE SPACE OPERATION (Earth to space) (space to space) SPACE RESEARCH (Earth to space) (space to space)</p> <p>5.391, 5.392 UK4.43, 27, 90B</p>	<p>UK4.43 2025-2070 MHz – MoD for the Mobile service. 2025-2110 MHz – MoD for the Space Operations service. 2070-2110 MHz – Ofcom for the Mobile service. Ofcom may also use 2025-2070 MHz for PMSE on the basis of no protection from and non-interference to MoD services. Airborne use is also permitted.</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK90B Co-ordination of mobile assignments close to MoD earth stations at Oakhanger (SU 776 357), Colerne (ST 808 717) and Menwith Hill (SE 209 561) will be required to avoid interference to those stations.</p>

Region 1	Region 2	Region 3
1930 – 1970 MHz  FIXED MOBILE 5.388A  5.388	1930 – 1970 MHz  FIXED MOBILE 5.388A Mobile-Satellite (Earth-to-space)  5.388	1930 – 1970 MHz  FIXED MOBILE 5.388A  5.388
1970 – 1980 MHz  FIXED MOBILE 5.388A  5.388		
1980 – 2010 MHz  FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.351A  5.388 5.389A 5.389B 5.389F		
2010 – 2025 MHz  FIXED MOBILE 5.388A 5.388B  5.388	2010 – 2025 MHz  FIXED MOBILE MOBILE-SATELLITE (Earth-to-space)  5.388 5.389C 5.389E	2010 – 2025 MHz  FIXED MOBILE 5.388A 5.388B  5.388
2025 – 2110 MHz  SPACE OPERATION (Earth-to-space) (space-to-space) EARTH EXPLORATION-SATELLITE (Earth-to-space) (space-to-space) FIXED MOBILE 5.391 SPACE RESEARCH (Earth-to-space) (space-to-space)  5.392		

Allocation to United Kingdom Services	Comments
<p>2110 – 2120 MHz</p> <p>FIXED MOBILE 5.388A SPACE RESEARCH (Earth to space) (deep space)</p> <p>5.388</p> <p>UK8, 165</p> <p>UK1</p>	<p>UK165 Ofcom for electronic communications services operating in the bands 1899-9-1980 MHz and 2110-2170 MHz.</p>
<p>2120 – 2170 MHz</p> <p>FIXED MOBILE 5.388A</p> <p>5.388</p> <p>UK8, 165</p> <p>UK1</p>	<p>UK165 Ofcom for electronic communications services operating in the bands 1899-9-1980 MHz and 2110-2170 MHz.</p>
<p>2170 – 2200 MHz</p> <p>FIXED MOBILE MOBILE-SATELLITE (space to Earth) 5.351A</p> <p>5.388, 5.389A</p> <p>UK1, EU6</p>	<p>EU6 Commission Decision 2007/98/EC (harmonised use of 1980-2010 MHz and 2170-2200 MHz for MSS) applies.</p>

Region 1	Region 2	Region 3
2110 – 2120 MHz  FIXED MOBILE 5.388A SPACE RESEARCH (deep space) (Earth-to-space)  5.388		
2120 – 2160 MHz  FIXED MOBILE 5.388A  5.388	2120 – 2160 MHz  FIXED MOBILE 5.388A Mobile-Satellite (space-to-Earth)  5.388	2120 – 2160 MHz  FIXED MOBILE 5.388A  5.388
2160 – 2170 MHz  FIXED MOBILE 5.388A 5.388B  5.388	2160 – 2170 MHz  FIXED MOBILE MOBILE-SATELLITE (space-to-Earth)  5.388 5.389C 5.389E	2160 – 2170 MHz  FIXED MOBILE 5.388A 5.388B  5.388
2170 – 2200 MHz  FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A  5.388 5.389A 5.389F		

Allocation to United Kingdom Services	Comments
<p>2200 – 2290 MHz</p> <p>EARTH EXPLORATION SATELLITE (space to Earth) (space to space) MOBILE SPACE OPERATION (space to Earth) (space to space) SPACE RESEARCH (space to Earth) (space to space)</p> <p>5.391, 5.392                                      UK4.44, 27, 88, 90B</p>	<p>UK4.44 2200-2245 MHz – MoD for the Mobile service. 2200-2290 MHz – MoD for the Space Operations service. 2245-2290 MHz – Ofcom for the Mobile service subject to arrangements to protect MoD services. Ofcom may also use 2200-2245 MHz for PMSE on the basis of no protection from and non-interference to MoD services.</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK88 MoD may operate Aeronautical Mobile (OR) services in the band 2200 – 2290 MHz. This is to be on a self coordinated basis.</p> <p>UK90B Co-ordination of mobile assignments close to MoD earth stations at Oakhanger (SU 776 357), Colerne (ST 808 717) and Menwith Hill (SE 209 561) will be required to avoid interference to those stations.</p>
<p>2290 – 2300 MHz</p> <p>FIXED MOBILE Space Research (space to Earth) (deep space)</p> <p>UK1, 10, 27, 198</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK198 The band 2290-2302 MHz has been identified for award by Ofcom by auction – see General Note 5.2, c).</p>
<p>2300 – 2302 MHz</p> <p>FIXED MOBILE 5.384A                                      UK8</p> <p>UK1, 198</p>	<p>UK198 The band 2290-2302 MHz has been identified for potential award by Ofcom by auction – see General Note 5.2, c).</p>
<p>2302 – 2310 MHz</p> <p>FIXED MOBILE 5.384A                                      UK8</p> <p>UK1, 3.20</p>	<p>UK3.20 2302-2310 MHz - Emergency Services use (see Annex I).</p>

Region 1	Region 2	Region 3
2200 – 2290 MHz  SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space) FIXED MOBILE 5.391 SPACE RESEARCH (space-to-Earth) (space-to-space)  5.392		
2290 – 2300 MHz  FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-to-Earth)		
2300 – 2450 MHz  FIXED MOBILE 5.384A Amateur Radiolocation  5.150 5.282 5.395	2300 – 2450 MHz  FIXED MOBILE 5.384A RADIOLOCATION Amateur  5.150 5.282 5.393 5.394 5.396	

Allocation to United Kingdom Services	Comments
<p>2310 – 2450 MHz</p> <p>FIXED MOBILE 5.384A Amateur Amateur-Satellite Radiolocation</p> <p>5.150, 5.282</p> <p>UK3.21, 8 UK7 UK7</p> <p>UK2, 5.26, 6, 11, 27, EU1</p>	<p>UK3.21 2310-2320 MHz, 2320-2360 MHz and 2360-2380 MHz - Emergency Services use (see Annex I).</p> <p>UK5.26 2310-2450 MHz – MoD for the Fixed, Mobile and Radiolocation services. Ofcom for the Amateur and Amateur-Satellite services.</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>2450 – 2483.5 MHz</p> <p>FIXED MOBILE Radiolocation</p> <p>5.150</p> <p>UK 5.27, 95</p> <p>UK1, 6, 11, 27, EU1</p>	<p>UK5.27 2450.0-2483.5 MHz MoD for the Radiolocation service.</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK95 Limited to land and naval radars below 2550 MHz and naval radars below 2600 MHz.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>2483.5 – 2500 MHz</p> <p>FIXED MOBILE (except aeronautical mobile) MOBILE-SATELLITE (space to Earth) 5.351A RADIODETERMINATION- SATELLITE (space-to-Earth) 5.398 Radiolocation 5.A118</p> <p>5.150, 5.398, 5.399, 5.402, 5.B118</p> <p>UK 95</p> <p>UK1, 6, 27</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK95 Limited to land and naval radars below 2550 MHz and naval radars below 2600 MHz.</p>
<p>2500 – 2520 MHz</p> <p>FIXED 5.410, MOBILE (except aeronautical mobile) 5.384A</p> <p>UK8</p> <p>UK1, 96, 199, EU7</p>	<p>UK96 In accordance with 5.410 new tropospheric scatter systems will not be developed in the band 2500-2690 MHz.</p> <p>UK199 The band 2500-2690 MHz has been identified for award by Ofcom by auction – see General Note 5.2, c).</p> <p>EU7 Commission Decisions 2008/477/EC and 2009/1/EC (harmonised use of 2500-2690 MHz for electronic communications services) applies.</p>



Region 1	Region 2	Region 3
Cont... 2300 – 2450 MHz FIXED MOBILE 5.384A Amateur Radiolocation 5.150 5.282 5.395	Cont... 2300 – 2450 MHz FIXED MOBILE 5.384A RADIOLOCATION Amateur 5.150 5.282 5.393 5.394 5.396	
2450 – 2483·5 MHz FIXED MOBILE Radiolocation 5.150 5.397	2450 – 2483·5 MHz FIXED MOBILE RADIOLOCATION 5.150	
2483·5 – 2500 MHz FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A RADIODETERMINATION- SATELLITE (space-to-Earth) 5.398 Radiolocation 5.A118 5.150 5.399 5.402 5.B118	2483·5 – 2500 MHz FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A RADIOLOCATION RADIODETERMINATION- SATELLITE (space-to-Earth) 5.398 5.150 5.402	2483·5 – 2500 MHz FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A RADIOLOCATION Radiodetermination-Satellite (space-to-Earth) 5.398 5.150 5.402 5.B118
2500 – 2520 MHz FIXED 5.410 MOBILE except aeronautical mobile 5.384A 5.405 5.412	2500 – 2520 MHz FIXED 5.410 FIXED-SATELLITE (space-to- Earth) 5.415 MOBILE except aeronautical mobile 5.384A 5.404	2500 – 2520 MHz FIXED 5.410 FIXED-SATELLITE (space-to- Earth) 5.415 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (space-to- Earth) 5.351A 5.407 5.414 5.414A 5.404 5.415A

Allocation to United Kingdom Services	Comments
<p>2520 – 2655 MHz</p> <p>FIXED 5.410, MOBILE 5.384A</p> <p>5.339, 5.417D, 5.418C</p> <p>UK8 UK1, 96, 199, EU7</p>	<p>UK96 In accordance with 5.410 new tropospheric scatter systems will not be developed in the band 2500-2690 MHz.</p> <p>UK199 The band 2500-2690 MHz has been identified for award by Ofcom by auction – see General Note 5.2, c).</p> <p>EU7 Commission Decisions 2008/477/EC and 2009/1/EC (harmonised use of 2500-2690 MHz for electronic communications services) applies.</p>
<p>2655 – 2670 MHz</p> <p>FIXED 5.410, MOBILE 5.384A Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)</p> <p>5.149</p> <p>UK96 UK8 UK10 UK1, 199, EU7</p>	<p>UK96 In accordance with 5.410 new tropospheric scatter systems will not be developed in the band 2500-2690 MHz.</p> <p>UK199 The band 2500-2690 MHz has been identified for award by Ofcom by auction – see General Note 5.2, c).</p> <p>EU7 Commission Decisions 2008/477/EC and 2009/1/EC (harmonised use of 2500-2690 MHz for electronic communications services) applies.</p>

Region 1	Region 2	Region 3
2520 – 2655 MHz  FIXED 5.410 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416  5.339 5.405 5.412 5.417C 5.417D 5.418B 5.418C	2520 – 2655 MHz  FIXED 5.410 FIXED-SATELLITE (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416  5.339 5.417C 5.417D 5.418B 5.418C	2520 – 2535 MHz  FIXED 5.410 FIXED-SATELLITE (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416  5.403 5.414A 5.415A
		2535 – 2655 MHz  FIXED 5.410 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416  5.339 5.417A 5.417B 5.417C 5.417D 5.418 5.418A 5.418B 5.418C
2655 – 2670 MHz  FIXED 5.410 MOBILE except aeronautical mobile 5.384A BROADCASTING-SATELLITE 5.208B 5.413 5.416 Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)  5.149 5.412	2655 – 2670 MHz  FIXED 5.410 FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416 Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)  5.149 5.208B	2655 – 2670 MHz  FIXED 5.410 FIXED-SATELLITE (Earth-to-space) 5.415 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416 Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)  5.149 5.208B 5.420

Allocation to United Kingdom Services	Comments
<p>2670 – 2690 MHz</p> <p>FIXED 5.410 UK96  MOBILE 5.384A UK8  MOBILE-SATELLITE  (Earth to space) 5.351A  Earth Exploration-Satellite (passive)  Radio Astronomy UK10  Space Research (passive)</p> <p>5.149 UK1, 199, EU7</p>	<p>UK96 In accordance with 5.410 new tropospheric scatter systems will not be developed in the band 2500-2690 MHz.</p> <p>UK199 The band 2500-2690 MHz has been identified for award by Ofcom by auction – see General Note 5.2, c).</p> <p>EU7 Commission Decisions 2008/477/EC and 2009/1/EC (harmonised use of 2500-2690 MHz for electronic communications services) applies.</p>
<p>2690 – 2700 MHz</p> <p>EARTH EXPLORATION-SATELLITE  (passive)  RADIO ASTRONOMY UK10  SPACE RESEARCH (passive)</p> <p>5.340 UK1</p>	
<p>2700 – 2900 MHz</p> <p>AERONAUTICAL  RADIONAVIGATION 5.337 UK97  Radiolocation</p> <p>5.423 UK4, 213</p>	<p>UK4.45 2700-2900 MHz – CAA/MoD for the Aeronautical Radionavigation service.</p> <p>UK97 Limited to meteorological and military radars only.</p> <p>UK213 Services operating in the band 2700-3100 MHz are subject to coordination with CAA and MoD, and also MCA in the band 2900-3100 MHz.</p>
<p>2900 – 3100 MHz</p> <p>RADIOLOCATION 5.424A UK5.28  RADIONAVIGATION 5.426 UK5.28, 184</p> <p>5.425, 5.427 UK2, 99a, 213</p>	<p>UK5.28 2900-3100 MHz – MoD for the Radiolocation service. CAA/MoD/MCA for the Radionavigation service.</p> <p>UK99a The use of 3100 MHz for the calibration of EMC equipment by MoD is permitted non-interference basis to other users.</p> <p>UK184 Ofcom may licence stations in the Maritime Radionavigation service in this band.</p> <p>UK213 Services operating in the band 2700-3100 MHz are subject to coordination with CAA and MoD, and also MCA in the band 2900-3100 MHz.</p>
<p>3100 – 3300 MHz</p> <p>RADIOLOCATION UK5.29  Earth Exploration-Satellite (active)  Space Research (active)</p> <p>5.149 UK2, 99, 100</p>	<p>UK5.29 3100-3300 MHz –MoD for the Radiolocation service.</p> <p>UK99 The use of 3100 MHz for the calibration of EMC equipment by MoD is permitted non-interference basis to other users.</p> <p>UK100 Within the band 3200-3300 MHz MDM equipment employed in the dynamic (mobile) role may be used on non-interference basis and subject to prior co-ordination between Ofcom and MoD.</p>

Region 1	Region 2	Region 3
2670 – 2690 MHz  FIXED 5.410 MOBILE except aeronautical mobile 5.384A Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)  5.149 5.412	2670 – 2690 MHz  FIXED 5.410 FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.208B 5.415 MOBILE except aeronautical mobile 5.384A Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)  5.149	2670 – 2690 MHz  FIXED 5.410 FIXED-SATELLITE (Earth-to-space) 5.415 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (Earth-to-space) 5.351A 5.419 Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)  5.149
2690 – 2700 MHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 5.422		
2700 – 2900 MHz  AERONAUTICAL RADIONAVIGATION 5.337 Radiolocation  5.423 5.424		
2900 – 3100 MHz  RADIOLOCATION 5.424A RADIONAVIGATION 5.426  5.425 5.427		
3100 – 3300 MHz  RADIOLOCATION Earth Exploration-Satellite (active) Space Research (active)  5.149 5.428		

Allocation to United Kingdom Services	Comments
3300 – 3400 MHz RADIOLOCATION 5.149 UK2	
3400 – 3600 MHz MOBILE 5.430A UK8 RADIOLOCATION UK 5.30 Amateur UK5, 7 5.431 UK2, 3.22, 27, 150, 221, EU8	UK3.22 3442-3475 MHz - Emergency Services use (see Annex I). UK5.30 3400-3410 MHz – MoD for the Radiolocation service; 3400-3475 MHz – Ofcom for the Amateur service. UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H. UK150 3480-3500 MHz and 3580-3600 MHz – awarded by Ofcom for Fixed Wireless Access until 2018. UK221 RSA has now been granted in the 3400-3480 and 3500-3580 MHz bands – see General Note 6. EU8 Commission Decision 2008/411/EC (harmonised use of 3400-3800 MHz for electronic communication services) applies.
3600 - 4200 MHz FIXED FIXED-SATELLITE (space to Earth) UK102, 226 Mobile UK8 UK1, EU8	UK102 This Fixed-Satellite allocation is intended mainly for civil systems. UK226 RSA has now been granted in the 3600 - 4200 MHz band – see General Note 6. EU8 Commission Decision 2008/411/EC (harmonised use of 3400-3800 MHz for electronic communication services) applies
4200 - 4400 MHz AERONAUTICAL RADIONAVIGATION 5.438 5.440 UK4.46	UK4.46 4200-4400 MHz – CAA/MoD

Region 1	Region 2	Region 3
3300 – 3400 MHz RADIOLOCATION 5.149 5.429 5.430	3300 – 3400 MHz RADIOLOCATION Amateur Fixed Mobile 5.149 5.430	3300 – 3400 MHz RADIOLOCATION Amateur 5.149 5.429
3400 – 3600 MHz FIXED FIXED-SATELLITE (space-to-Earth) Mobile 5.430A Radiolocation 5.431	3400 – 3500 MHz FIXED FIXED-SATELLITE (space-to-Earth) Amateur Mobile 5.431A Radiolocation 5.433 5.282	3400 – 3500 MHz FIXED FIXED-SATELLITE (space-to-Earth) Amateur Mobile 5.432B Radiolocation 5.433 5.282 5.432 5.432A
	3500 – 3700 MHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile Radiolocation 5.433	3500 – 3600 MHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.433A Radiolocation 5.433
	3600 – 4200MHz FIXED FIXED-SATELLITE (space-to-Earth) Mobile	3600 – 3700 MHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile Radiolocation 5.433 5.435
4200 – 4400 MHz AERONAUTICAL RADIONAVIGATION 5.438 5.439 5.440	3700 – 4200 MHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	

Allocation to United Kingdom Services	Comments
4400 - 4500 MHz  FIXED UK104 MOBILE UK104  UK2	UK104 Includes tropospheric scatter.
4500 - 4800 MHz  FIXED UK104 FIXED-SATELLITE (space-to-Earth) 5.441 MOBILE UK104  UK2, 10, 11, EU1	UK104 Includes tropospheric scatter. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
4800 - 4990 MHz  FIXED UK 104 MOBILE 5.442 Radio Astronomy UK10  5.149, 5.339 UK2, 11, EU1	UK104 Includes tropospheric scatter EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
4990 - 5000 MHz  FIXED MOBILE 5.442 RADIO ASTRONOMY UK5.31, 10  5.149 UK2, 11, EU1	UK5.31 Ofcom for the Radio Astronomy service. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
5000 - 5010 MHz  AERONAUTICAL MOBILE-SATELLITE (R) 5.B103 AERONAUTICAL RADIONAVIGATION UK212 RADIONAVIGATION-SATELLITE (Earth-to-space)  5.367 UK4.47, 11, EU1	UK4.47 5000-5010 MHz – CAA/MoD for the Aeronautical Radionavigation service. Ofcom for the Radionavigation-Satellite service. UK212 All aeronautical assignments in this band are undertaken by the CAA. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
5010 – 5030 MHz  AERONAUTICAL MOBILE-SATELLITE (R) 5.B103 AERONAUTICAL RADIONAVIGATION UK212 RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B, 5.443B  5.367 UK4.48, 11, EU1	UK4.48 5010-5030 MHz – CAA/MoD MoD for the Aeronautical Radionavigation service. Ofcom for the Radionavigation-Satellite service. UK212 All aeronautical assignments in this band are undertaken by the CAA. EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.



Region 1	Region 2	Region 3
4400 – 4500 MHz  FIXED MOBILE 5.440A		
4500 – 4800 MHz  FIXED FIXED-SATELLITE (space-to-Earth) 5.441 MOBILE 5.440A		
4800 – 4990 MHz  FIXED MOBILE 5.440A 5.442 Radio Astronomy  5.149 5.339 5.443		
4990 – 5000 MHz  FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY Space Research (passive)  5.149		
5000 – 5010 MHz  AERONAUTICAL MOBILE-SATELLITE (R) 5.B103 AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (Earth-to-space)  5.367		
5010 – 5030 MHz  AERONAUTICAL MOBILE-SATELLITE (R) 5.B103 AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.443B  5.367		

Allocation to United Kingdom Services	Comments
<p>5030 - 5091 MHz</p> <p>AERONAUTICAL MOBILE (R) 5.C103      UK212  AERONAUTICAL MOBILE  -SATELLITE (R) 5.D103  AERONAUTICAL RADIONAVIGATION      UK212</p> <p>5.367, 5.444, 5.444A      UK4.49, 11, EU1</p>	<p>UK4.49 5030-5091 MHz – CAA/MoD.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>5091 - 5150 MHz</p> <p>AERONAUTICAL RADIONAVIGATION      UK212  AERONAUTICAL MOBILE 5.444B  AERONAUTICAL  MOBILE-SATELLITE (R) 5.B103</p> <p>5.444, 5.444A      UK4.50, 11, EU1</p>	<p>UK4.50 5091-5150 MHz – CAA/MoD.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>5150 - 5250 MHz</p> <p>AERONAUTICAL RADIONAVIGATION  FIXED-SATELLITE SERVICE  (Earth-to-space) 5.447A  MOBILE except aeronautical  mobile 5.446A, 5.446B</p> <p>5.447, 5.447B, 5.447C      UK4.51, 11, EU1 ,EU9</p>	<p>UK4.51 5150-5250 - CAA/MoD for the Aeronautical Radionavigation service. Ofcom for the Fixed-Satellite and Mobile except aeronautical mobile services.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU9 Commission Decisions 2007/90/EC and 2005/513/EC (harmonised use of 5150-5350 MHz and 5470-5725 MHz for WAS/RLANs) applies.</p>
<p>5250 – 5255 MHz</p> <p>EARTH EXPLORATION  -SATELLITE (active)  MOBILE except aeronautical  mobile 5.446A      UK5.32  RADIOLOCATION      UK5.32  SPACE RESEARCH 5.447D</p> <p>5.448A      UK2, 11, EU1, EU9</p>	<p>UK5.32 5250-5255 MHz - MoD for the Radiolocation service. Ofcom for the Mobile except aeronautical mobile service.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU9 Commission Decisions 2007/90/EC and 2005/513/EC (harmonised use of 5150-5350 MHz and 5470-5725 MHz for WAS/RLANs) applies.</p>
<p>5255 – 5350 MHz</p> <p>EARTH EXPLORATION  -SATELLITE (active)  MOBILE except aeronautical  mobile 5.446A      UK5.33  RADIOLOCATION      UK5.33  SPACE RESEARCH (active)</p> <p>5.448A      UK2, 11, EU1, EU9</p>	<p>UK5.33 5255-5350 MHz - MoD for the Radiolocation service. Ofcom for the Mobile service.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU9 Commission Decisions 2007/90/EC and 2005/513/EC (harmonised use of 5150-5350 MHz and 5470-5725 MHz for WAS/RLANs) applies.</p>

Region 1	Region 2	Region 3
5030 – 5091 MHz  AERONAUTICAL MOBILE (R) 5.C103 AERONAUTICAL MOBILE-SATELLITE (R) 5.D103 AERONAUTICAL RADIONAVIGATION  5.444		
5091 – 5150 MHz  AERONAUTICAL MOBILE 5.444B AERONAUTICAL MOBILE-SATELLITE (R) 5.B103 AERONAUTICAL RADIONAVIGATION  5.444 5.444A		
5150 – 5250 MHz  AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (Earth-to-space) 5.447A MOBILE except aeronautical mobile 5.446A 5.446B  5.446 5.446C 5.447 5.447B 5.447C		
5 250 – 5 255 MHz  EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.447D MOBILE except aeronautical mobile 5.446A 5.447F  5.447E 5.448 5.448A		
5 255 – 5 350 MHz  EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) MOBILE except aeronautical mobile 5.446A 5.447F  5.447E 5.448 5.448A		

Allocation to United Kingdom Services	Comments
<p>5350 – 5460 MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.449 EARTH EXPLORATION-SATELLITE (active) 5.448B RADIOLOCATION 5.448D SPACE RESEARCH (active) 5.448C</p> <p>UK2, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>5460 – 5470 MHz</p> <p>EARTH EXPLORATION -SATELLITE (active) RADIOLOCATION 5.448D RADIONAVIGATION 5.449 SPACE RESEARCH (active)</p> <p>5.448B</p> <p>UK105</p> <p>UK2, 11, EU1</p>	<p>UK105 The maritime Radionavigation service is limited to shipborne and associated land based radars.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>5470 – 5570 MHz</p> <p>EARTH EXPLORATION -SATELLITE (active) MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION 5.450B SPACE RESEARCH (active)</p> <p>5.448B, 5.451</p> <p>UK105</p> <p>UK2, 11, 27, 107, EU1, EU9</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK105 The maritime Radionavigation service is limited to shipborne and associated land based radars.</p> <p>UK107 MDM equipment may use 5480 MHz and 5570 MHz on a non-interference basis, subject to the prior agreement of the MoD.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU9 Commission Decisions 2007/90/EC and 2005/513/EC (harmonised use of 5150-5350 MHz and 5470-5725 MHz for WAS/RLANs) applies.</p>

Region 1	Region 2	Region 3
<p>5 350 – 5 460 MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.449  EARTH EXPLORATION-SATELLITE (active) 5.448B  RADIOLOCATION 5.448D  SPACE RESEARCH (active) 5.448C</p>		
<p>5 460 – 5 470 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active)  RADIOLOCATION 5.448D  RADIONAVIGATION 5.449  SPACE RESEARCH (active)</p> <p>5.448B</p>		
<p>5 470 – 5 570 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active)  MARITIME RADIONAVIGATION  MOBILE except aeronautical mobile 5.446A 5.450A  RADIOLOCATION 5.450B  SPACE RESEARCH (active)</p> <p>5.448B 5.450 5.451</p>		

Allocation to United Kingdom Services	Comments
<p>5570 – 5600 MHz</p> <p>MARITIME RADIONAVIGATION                      UK105  MOBILE except aeronautical  mobile 5.446A 5.450A                      UK5.34  RADIOLOCATION                      UK219</p> <p>5.451, 5.452                      UK2, 11, 27, 107, 218, EU1, EU9</p>	<p>UK5.34 5570-5650 MHz – Ofcom for the Mobile except aeronautical mobile service.</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK105 The Maritime Radionavigation service is limited to shipborne and associated land based radars.</p> <p>UK107 MDM equipment may use 5480 MHz and 5570 MHz on a non-interference basis, subject to the prior agreement of the MoD.</p> <p>UK219 Radiolocation: military radars on a secondary basis</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU9 Commission Decisions 2007/90/EC and 2005/513/EC (harmonised use of 5150-5350 MHz and 5470-5725 MHz for WAS/RLANs) applies.</p>
<p>5600 – 5650 MHz</p> <p>MARITIME RADIONAVIGATION                      UK105  MOBILE except aeronautical  mobile 5.446A 5.450A                      UK218, 219  RADIOLOCATION                      UK218, 219</p> <p>5.451, 5.452                      UK2, 5.34, 11, 219, EU1, EU9</p>	<p>UK5.34 5570-5650 MHz – Ofcom for the Mobile except aeronautical mobile service.</p> <p>UK105 The Maritime Radionavigation service is limited to shipborne and associated land based radars.</p> <p>UK218 Radiolocation: meteorological radar in 5.600-5.650 MHz.</p> <p>UK219 Radiolocation: military radars on a secondary basis .</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU9 Commission Decisions 2007/90/EC and 2005/513/EC (harmonised use of 5150-5350 MHz and 5470-5725 MHz for WAS/RLANs) applies.</p>

Region 1	Region 2	Region 3
<p>5570 – 5 650 MHz</p> <p>MARITIME RADIONAVIGATION  MOBILE except aeronautical mobile 5.446A 5.450A  RADIOLOCATION 5.450B</p> <p>5.450 5.451 5.452</p>		

Allocation to United Kingdom Services	Comments
<p>5650 – 5725 MHz</p> <p>MOBILE except aeronautical mobile 5.446A 5.450A</p> <p>RADIOLOCATION</p> <p>Amateur UK7 Amateur-Satellite (Earth to space) UK7 Space Research (deep space)</p> <p>5.282, 5.451 UK2, 5.35, 11, 27, EU1, EU9</p>	<p>UK5.35 5650-5725 MHz - MoD for the Radiolocation service; 5650-5670 MHz - Ofcom for the Amateur-Satellite service; 5650-5850 MHz - Ofcom for the Amateur and Mobile services.</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU9 Commission Decisions 2007/90/EC and 2005/513/EC (harmonised use of 5150-5350 MHz and 5470-5725 MHz for WAS/RLANs) applies.</p>
<p>5725 – 5850 MHz</p> <p>FIXED SATELLITE (Earth-to-space) RADIOLOCATION</p> <p>Amateur UK7 Amateur-Satellite (space to Earth) UK7 Land Mobile UK108</p> <p>5.150, 5.451 UK2, 5.36, 6, 11, 27, EU1</p>	<p>UK5.36 5725-5850 MHz - MoD for the Radiolocation service; 5725-5850 MHz – Ofcom for the Amateur, Land Mobile services and Fixed Satellite service; 5830-5850 MHz – Ofcom for the Amateur Satellite service.</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK108 Between 5725 and 5850 MHz the Land Mobile service is subject to power limitations (see 5.451).</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>



Region 1	Region 2	Region 3
5 650 – 5 725 MHz  MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION Amateur Space Research (deep space)  5.282 5.451 5.453 5.454 5.455		
5 725 – 5 830 MHz  FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur  5.150 5.451 5.453 5.455 5.456	5 725 – 5 830 MHz  RADIOLOCATION Amateur  5.150 5.453 5.455	
5 830 – 5 850 MHz  FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur Amateur-Satellite (space-to-Earth)  5.150 5.451 5.453 5.455 5.456	5 830 – 5 850 MHz  RADIOLOCATION Amateur Amateur-Satellite (space-to-Earth)  5.150 5.453 5.455	

Allocation to United Kingdom Services	Comments
<p>5850 – 5925 MHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) MOBILE</p> <p>5.150                      UK1, 6, 11, 27, 111, EU1, EU10</p>	<p>UK27    Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK111   Existing MoD Radiolocation systems may continue to operate non-interference basis to essential civil services in accordance with T(F)(N)(80)5.</p> <p>EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU10    Commission Decisions 2008/671/EC and 2009/159/EC (harmonised use of 5875-5905 MHz for safety related ITS) applies.</p>
<p>5925 – 6700 MHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.457A MOBILE</p> <p>5.149, 5.440, 5.458                      UK1, 10, 11, 111, EU1</p>	<p>UK111   Existing MoD Radiolocation systems may continue to operate non-interference basis to essential civil services in accordance with T(F)(N)(80)5.</p> <p>EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>6700 – 7075 MHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.441 MOBILE</p> <p>5.458, 5.458A, 5.458B, 5.458C                      UK1, 11, 111, 143, EU1</p>	<p>UK111   Existing MoD Radiolocation systems may continue to operate non-interference basis to essential civil services in accordance with T(F)(N)(80)5.</p> <p>UK143   Electronic warfare calibration facilities operate on 7000 MHz.</p> <p>EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>7075 – 7145 MHz</p> <p>FIXED MOBILE</p> <p>5.458    UK 1, 27, 99b</p>	<p>UK27    Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK99b   The use of the band 7075–7110 MHz for the calibration of EMC equipment by MoD is permitted non-interference basis to other users.</p>
<p>7145 – 7235 MHz</p> <p>FIXED MOBILE SPACE RESEARCH (Earth-to-space) 5.460</p> <p>5.458    UK 1, 27</p>	<p>UK27    Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>

Region 1	Region 2	Region 3
5 850 – 5 925 MHz  FIXED FIXED-SATELLITE (Earth-to-space) MOBILE  5.150	5 850 – 5 925 MHz  FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Amateur Radiolocation  5.150	5 850 – 5 925 MHz  FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Radiolocation  5.150
5 925 – 6 700 MHz  FIXED 5.A120 FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B MOBILE 5.457C  5.149 5.440 5.458		
6 700 – 7 075 MHz  FIXED FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441 MOBILE  5.458 5.458A 5.458B 5.458C		
7 075 – 7 145 MHz  FIXED MOBILE  5.458 5.459		
7 145 – 7 235 MHz  FIXED MOBILE SPACE RESEARCH (Earth-to-space) 5.460  5.458 5.459		

Allocation to United Kingdom Services	Comments
<p>7235 – 7250 MHz</p> <p>FIXED MOBILE</p> <p>5.458 UK 1, 27</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>
<p>7250 – 7300 MHz</p> <p>FIXED-SATELLITE (space to Earth) MOBILE-SATELLITE (space to Earth)</p> <p>5.461 UK 2, 112</p>	<p>UK112 The Fixed-Satellite and Mobile-Satellite allocations are intended for military systems. Mobile-Satellite systems, which will normally be confined to 7250-7300 MHz, are to be used in accordance with 5.461</p>
<p>7300 – 7450 MHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) MOBILE except aeronautical mobile</p> <p>5.461 UK5.37 UK1, 27</p>	<p>UK5.37 7300-7450 MHz – MoD for the Fixed-Satellite service.</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>
<p>7450 – 7550 MHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) MOBILE except aeronautical mobile METEOROLOGICAL-SATELLITE</p> <p>5.461A UK5.38 UK114 UK1</p>	<p>UK5.38 7450-7550 MHz – MoD for the Fixed-Satellite service.</p> <p>UK114 The Meteorological-satellite service is limited to 7450-7550 MHz.</p>
<p>7550 – 7750 MHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) MOBILE except aeronautical mobile</p> <p>UK5.39 UK1</p>	<p>UK5.39 7550-7750 MHz – MoD for the Fixed-Satellite service.</p>
<p>7750 - 7900 MHz</p> <p>FIXED METEOROLOGICAL-SATELLITE (space to Earth) 5.461B MOBILE except aeronautical mobile</p> <p>UK227 UK1</p>	<p>UK227 RSA has now been granted in the 7750 - 7850 MHz band – see General Note 6.</p>

Region 1	Region 2	Region 3
7 235 – 7 250 MHz  FIXED MOBILE  5.458		
7 250 – 7 300 MHz  FIXED FIXED-SATELLITE (space-to-Earth) MOBILE  5.461		
7300 – 7450 MHz  FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile  5.461		
7450 – 7550 MHz  FIXED FIXED-SATELLITE (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile  5.461A		
7550 – 7750 MHz  FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile		
7750 – 7900 MHz  FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) 5.461B MOBILE except aeronautical mobile		

Allocation to United Kingdom Services	Comments
<p>7900 – 7975 MHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) LAND MOBILE MOBILE-SATELLITE (Earth to space)</p> <p>5.461 UK2</p>	
<p>7975 – 8025 MHz</p> <p>FIXED-SATELLITE (Earth to space) MOBILE-SATELLITE (Earth to space)</p> <p>5.461 UK115 UK2</p>	<p>UK115 Mobile-Satellite systems are to be used in accordance with 5.461.</p>
<p>8025 – 8175 MHz</p> <p>EARTH EXPLORATION-SATELLITE (space to Earth) FIXED FIXED-SATELLITE (Earth to space) MOBILE 5.463 MOBILE-SATELLITE (Earth to space)</p> <p>5.462A UK2, 155b</p>	<p>UK155b Ofcom - Low power level and flow detection systems operate in the bands 8100-8340 MHz.</p>
<p>8175 – 8215 MHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) METEOROLOGICAL-SATELLITE (Earth to space) MOBILE SATELLITE (Earth to space) MOBILE 5.463</p> <p>5.462A UK116 UK2, 155b</p>	<p>UK116 The Meteorological-Satellite service is limited to 8175-8215 MHz.</p> <p>UK155b Ofcom - Low power level and flow detection systems operate in the bands 8100-8340 MHz.</p>

Region 1	Region 2	Region 3
<p>7900 – 8025MHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) MOBILE</p> <p>5.461</p>		
<p>8025 – 8175 MHz</p> <p>EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.463</p> <p>5.462A</p>		
<p>8175 – 8215 MHz</p> <p>EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) MOBILE 5.463</p> <p>5.462A</p>		

Allocation to United Kingdom Services	Comments
<p>8215 – 8400 MHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) MOBILE SATELLITE (Earth to space)</p> <p>5.462A UK2, 3.23, 155b</p>	<p>UK3.23 8340-8360 MHz - Emergency Services use (see Annex I).</p> <p>UK155b Ofcom - Low power level and flow detection systems operate in the band 8100-8340 MHz.</p>
<p>8400 – 8500 MHz</p> <p>FIXED UK188 SPACE RESEARCH (space to Earth) 5.465</p> <p>UK1, 3.24, 10, 27, 155c</p>	<p>UK3.24 8400-8460 MHz - Emergency Services use (see Annex I).</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK155c Ofcom - Low power level and flow detection systems operate in the band 8460-9400 MHz.</p> <p>UK188 Residual MoD services.</p>
<p>8500 – 8550 MHz</p> <p>RADIOLOCATION</p> <p>UK2, 11, 155c, EU1</p>	<p>UK155c Ofcom - Low power level and flow detection systems operate in the band 8460-9400 MHz.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>8550 – 8650 MHz</p> <p>EARTH EXPLORATION -SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active)</p> <p>5.469A UK2, 11, 155c, EU1</p>	<p>UK155c Ofcom - Low power level and flow detection systems operate in the band 8460-9400 MHz.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>8650 – 8750 MHz</p> <p>RADIOLOCATION</p> <p>UK2, 11, 155c, EU1</p>	<p>UK155c Ofcom - Low power level and flow detection systems operate in the band 8460-9400 MHz.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>8750 – 8850 MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.470 RADIOLOCATION</p> <p>UK2, 11, 155c, EU1</p>	<p>UK155c Ofcom - Low power level and flow detection systems operate in the band 8460-9400 MHz.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>



Region 1	Region 2	Region 3
8215 – 8400 MHz  EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.463  5.462A		
8400 – 8500 MHz  FIXED 5.486 MOBILE except aeronautical mobile SPACE RESEARCH (space-to-Earth) 5.465 5.466		
8500 – 8550 MHz  RADIOLOCATION  5.468 5.469		
8550 – 8650 MHz  EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active)  5.468 5.469 5.469A		
8650 – 8750 MHz  RADIOLOCATION  5.468 5.469		
8750 – 8850 MHz  RADIOLOCATION AERONAUTICAL RADIONAVIGATION 5.470  5.471		

Allocation to United Kingdom Services	Comments
<p>8850 – 9000 MHz</p> <p>MARITIME RADIONAVIGATION 5.472 RADIOLOCATION 5.472</p> <p>UK2, 11, 155c, EU1</p>	<p>UK155c Ofcom - Low power level and flow detection systems operate in the band 8460-9400 MHz.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>9000 – 9200 MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION</p> <p>5.473A UK4.52, 11, 119, 155c, 214, EU1</p>	<p>UK4.52 9000-9200 MHz – MoD for the Radiolocation service. CAA/MoD for the Aeronautica Radionavigation service.</p> <p>UK119 Maritime Radionavigation harbour radars may operate on non-interference basis to Aeronautical Radionavigation by special agreement.</p> <p>UK155c Ofcom - Low power level and flow detection systems operate in the band 8460-9400 MHz.</p> <p>UK214 Services operating in the bands 9000-9200 and 9300-9500 MHz are subject to coordination with CAA and MoD.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>9200 – 9300 MHz</p> <p>RADIOLOCATION MARITIME RADIONAVIGATION 5.472 UK120, 184</p> <p>5.474 UK2, 11, 12, 155c, 214, EU1</p>	<p>UK120 Maritime Radionavigation is for shipborne radar and RACONS with harbour radars by special arrangement.</p> <p>UK155c Ofcom - Low power level and flow detection systems operate in the band 8460-9400 MHz.</p> <p>UK184 Ofcom may licence stations in the Maritime Radionavigation service in this band.</p> <p>UK214 Services operating in the bands 9000-9200 and 9300-9500 MHz are subject to coordination with CAA and MoD.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>

Region 1	Region 2	Region 3
8850 – 9000 MHz RADIOLOCATION MARITIME RADIONAVIGATION 5.472 5.473		
9000 – 9200 MHz AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION 5.471 5.473A		
9200 – 9300 MHz RADIOLOCATION MARITIME RADIONAVIGATION 5.472 5.473 5.474		

Allocation to United Kingdom Services	Comments
<p>9300 – 9500 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION UK229 RADIONAVIGATION UK120, 184</p> <p>5.427, 5.474, 5.475 5.475A 5.475B 5.476A UK 4.53, 11, 12, 122, 155c, EU1</p>	<p>UK4.53 9300-9500 MHz – CAA/MoD for the Radionavigation service.</p> <p>UK120 Maritime Radionavigation is for shipborne radar and RACONS with harbour radars by special arrangement.</p> <p>UK122 MDM equipment may use 9325 MHz and 9480 MHz on a non-interference basis.</p> <p>UK155c Ofcom - Low power level and flow detection systems operate in the band 8460-9400 MHz.</p> <p>UK184 Ofcom may licence stations in the Maritime Radionavigation service in this band.</p> <p>UK229 Meteorological radar has priority over other radiolocation uses.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>9500 – 9800 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active)</p> <p>5.476A, UK2, 11, 155d, EU1</p>	<p>UK155d Ofcom - Low power level and flow detection systems operate in the bands 9500-10250 MHz.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>9800 – 9900 MHz</p> <p>RADIOLOCATION Earth Exploration-Satellite (active) Space Research (active)</p> <p>5.478A 5.478B UK2, 11, 155d, EU1</p>	<p>UK155d Ofcom - Low power level and flow detection systems operate in the bands 9500-10250 MHz.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>9900 – 10000 MHz</p> <p>RADIOLOCATION</p> <p>5.479 UK2, 11, 155d, EU1</p>	<p>UK155d Ofcom - Low power level and flow detection systems operate in the bands 9500-10250 MHz.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>

Region 1	Region 2	Region 3
9300 – 9500 MHz  RADIONAVIGATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION  5.427 5.474 5.475 5.475A 5.475B 5.476A		
9500 – 9800 MHz  EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION SPACE RESEARCH (active)  5.476A		
9800 – 9900 MHz  RADIOLOCATION Earth Exploration-Satellite (active). Space Research (active). Fixed  5.477 5.478 5.478A 5.478B		
9900 – 10000 MHz  RADIOLOCATION Fixed  5.477 5.478 5.479		

Allocation to United Kingdom Services	Comments
<p>10000 – 10125 MHz</p> <p>FIXED MOBILE RADIOLOCATION Amateur</p> <p>UK8 UK7</p> <p>5.479 UK2, 5.40, 11, 155d, EU1</p>	<p>UK5.40 10.00-10.125 GHz – MoD for the Fixed, Mobile and Radiolocation services. Ofcom for the Amateur Service.</p> <p>UK155d Ofcom – Low power level and flow detection systems operate in the bands 9500-10 250 MHz.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>10125 – 10225 MHz</p> <p>FIXED MOBILE RADIOLOCATION</p> <p>UK8</p> <p>UK2, 5.41, 11, 155d, 204, EU1</p>	<p>UK5.41 10.125-10.225 GHz – MoD for the Mobile and Radiolocation services.</p> <p>UK155d Ofcom – Low power level and flow detection systems operate in the bands 9.50–10.25 GHz and 10.4–10.5 GHz.</p> <p>UK204 The band 10.125-10.225 GHz has been awarded by Ofcom by auction (see General Note 5.2, c).</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>10225 – 10450 MHz</p> <p>MOBILE RADIOLOCATION Amateur</p> <p>UK8 UK 7</p> <p>5.479 UK2, 3.25, 5.42, 11, 27, 155e, EU1</p>	<p>UK3.25 10.25-10.27 GHz, 10.36-10.4 GHz and 10.4-10.46 GHz - Emergency Services use (see Annex I).</p> <p>UK5.42 10.225-10.450 GHz – MoD for the Mobile and Radiolocation services; 10.225–10.475 GHz – Ofcom for the Amateur Service; 10.300-10.360 GHz – Ofcom for PMSE.</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK155e Ofcom – Low power level and flow detection systems operate in the bands 9.50–10.25 GHz and 10.4–10.5 GHz.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>

Region 1	Region 2	Region 3
<p>10000 – 10450 MHz</p> <p>FIXED MOBILE RADIOLOCATION Amateur</p> <p>5.479</p>	<p>10000 – 10450 MHz</p> <p>RADIOLOCATION Amateur</p> <p>5.479 5.480</p>	<p>10000 – 10450 MHz</p> <p>FIXED MOBILE RADIOLOCATION Amateur</p> <p>5.479</p>

Allocation to United Kingdom Services	Comments
<p>10450 – 10475 MHz</p> <p>MOBILE RADIOLOCATION Amateur Amateur-Satellite</p> <p>UK2, 3.25, 5.43, 11, 155e, EU1</p> <p>UK8 UK 7 UK7</p>	<p>UK3.25 10.25-10.27 GHz, 10.36-10.4 GHz and 10.4-10.46 GHz - Emergency Services use (see Annex I).</p> <p>UK5.43 10.450-10.500 GHz – MoD for the Mobile and Radiolocation services; 10.225–10.475 GHz – Ofcom for the Amateur service; 10.450–10.500 GHz – Ofcom for the Amateur-Satellite service.</p> <p>UK155e Ofcom – Low power level and flow detection systems operate in the bands 9.50–10.25 GHz and 10.4–10.5 GHz.</p> <p>UK205 The band 10.475-10.575 GHz has been awarded by Ofcom by auction (see General Note 5.2, c).</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>10475 – 10500 MHz</p> <p>FIXED MOBILE RADIOLOCATION Amateur-satellite</p> <p>UK2, 5.43, 11, 155e, 205, EU1</p> <p>UK8 UK7</p>	<p>UK5.43 10.450-10.500 GHz – MoD for the Mobile and Radiolocation services; 10.225–10.475 GHz – Ofcom for the Amateur service; 10.450–10.500 GHz – Ofcom for the Amateur-Satellite service.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>10.5 – 10.55 GHz</p> <p>FIXED MOBILE Radiolocation</p> <p>UK1, 11, 205, EU1</p> <p>UK8 UK123</p>	<p>UK123 The Radiolocation service is limited to: (1) Civil low power devices in the sub-band 10.577-10.597 GHz; and (2) Military low power devices (subject to prior co-ordination with Ofcom) in the sub-band 10.5-10.6 GHz. (3) Subject to prior co-ordination with Ofcom, MoD Doppler radar may operate in the band 10.50-10.60 GHz.</p> <p>UK205 The band 10.475-10.575 GHz has been awarded by Ofcom by auction (see General Note 5.2, c).</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>



Region 1	Region 2	Region 3
10.45 – 10.5 GHz  RADIOLOCATION Amateur Amateur-Satellite  5.481		
10.5 – 10.55 GHz  FIXED MOBILE Radiolocation	10.5 – 10.55 GHz  FIXED MOBILE RADIOLOCATION	

Allocation to United Kingdom Services	Comments
<p>10.55 – 10.6 GHz</p> <p>FIXED MOBILE except aeronautical mobile Radiolocation</p> <p>UK8 UK123 UK1, 11, 205, EU1</p>	<p>UK123 The Radiolocation service is limited to: (1) Civil low power devices in the sub-band 10.577-10.597 GHz; and (2) Military low power devices (subject to prior co-ordination with Ofcom) in the sub-band 10.5-10.6 GHz. (3) Subject to prior co-ordination with Ofcom, MoD Doppler radar may operate in the band 10.50-10.60 GHz.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>10.6 – 10.68 GHz</p> <p>EARTH EXPLORATION -SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation</p> <p>UK8 UK126 5.149, 5.482 5.482A UK1, 10, 11</p>	<p>UK126 The Radiolocation service is limited to devices for indoor use only in the sub-band 10.675-10.699 GHz. No new deployments will be permitted after 2014.</p>
<p>10.68 – 10.7 GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation</p> <p>UK126 5.340 UK1, 10, 11</p>	<p>UK126 The Radiolocation service is limited to devices for indoor use only in the sub-band 10.675-10.699 GHz. No new deployments will be permitted after 2014.</p>
<p>10.7 – 11.7 GHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) 5.441 (Earth to space) 5.484 MOBILE except aeronautical mobile</p> <p>UK 101 5.441 UK1, 143</p>	<p>UK143 Electronic warfare calibration facilities operate on 11.0 and 11.5 GHz.</p>

Region 1	Region 2	Region 3
10.55 – 10.6 GHz  FIXED MOBILE except aeronautical mobile Radiolocation		
10.6 – 10.68 GHz  EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation  5.149 5.482 5.482A		
10.68 – 10.7 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 5.483		
10.7 – 11.7 GHz  FIXED FIXED-SATELLITE (space-to-Earth) 5.441, 5.484A (Earth-to-space) 5.484 MOBILE except aeronautical mobile	10.7 – 11.7 GHz  FIXED FIXED-SATELLITE (space-to-Earth) 5.441 5.484A MOBILE except aeronautical mobile	

Allocation to United Kingdom Services	Comments
<p>11.7 – 12.5 GHz</p> <p>BROADCASTING-SATELLITE FIXED Mobile except aeronautical mobile</p> <p>5.487, 5.487A, 5.492                      UK1, 27, 129, 143</p>	<p>UK27    Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK129    MoD radiolocation may operate in the band 11.7-13.25 GHz subject to prior approval of NFPG.</p> <p>UK143    Electronic warfare calibration facilities operate on 12.0 GHz.</p>
<p>12.5 – 12.75 GHz</p> <p>FIXED-SATELLITE (space to Earth) 5.484A (Earth to space)</p> <p>UK1, 129,</p>	<p>UK129    MoD radiolocation may operate in the band 11.7-13.25 GHz subject to prior approval of NFPG.</p>
<p>12.75 – 13.25 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.441                      UK128</p> <p>MOBILE Space Research (deep space) (space-to-earth)</p> <p>UK1, 129</p>	<p>UK128    The sub-bands 12.863-12.919 GHz and 13.129-13.185 GHz are used for civil communications including national defence circuits operated by public telecommunications operators.</p> <p>UK129    MoD radiolocation may operate in the band 11.7-13.25 GHz subject to prior approval of NFPG.</p>

Region 1	Region 2	Region 3
11·7 – 12·5 GHz  FIXED BROADCASTING BROADCASTING-SATELLITE MOBILE except aeronautical mobile  5.487 5.487A	11·7 – 12·1 GHz  FIXED 5.486 FIXED-SATELLITE (space-to-Earth) 5.484A 5.488 Mobile except aeronautical mobile  5.485	11·7 – 12·2 GHz  FIXED BROADCASTING BROADCASTING-SATELLITE MOBILE except aeronautical mobile 5.492  5.487 5.487A
	12·1 – 12·2 GHz  FIXED-SATELLITE 5.484A 5.488 (space-to-Earth)  5.485 5.489	
	12·2 – 12·7 GHz  FIXED MOBILE except aeronautical mobile BROADCASTING BROADCASTING-SATELLITE 5.492  5.487A, 5.488 5.490	12·2 – 12·5 GHz  FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile BROADCASTING  5.484A, 5.487
12·5 – 12·75 GHz  FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space)  5.494 5.495 5.496	12·7 – 12·75 GHz  FIXED FIXED-SATELLITE (Earth-to-space) MOBILE except aeronautical mobile	12·5 – 12·75 GHz  FIXED FIXED-SATELLITE (space-to-Earth) 5.484A MOBILE except aeronautical mobile BROADCASTING SATELLITE 5.493
12·75 – 13·25 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.441 MOBILE Space Research (deep space) (space-to-Earth)		

Allocation to United Kingdom Services	Comments
<p>13.25 – 13.4 GHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.497 Space Research</p> <p>UK4.54</p>	<p>UK4.54 13.25-13.40 GHz – CAA/MoD for the Aeronautical Radionavigation service. Ofcom for the Space Research service.</p>
<p>13.4 – 13.75 GHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.501A Standard Frequency and Time Signal – Satellite (Earth to space)</p> <p>5.501B</p> <p>UK2, 11</p>	
<p>13.75 – 14 GHz</p> <p>FIXED-SATELLITE (Earth to space) 5.484A</p> <p>RADIOLOCATION Earth Exploration-Satellite Space Research Standard Frequency and Time Signal – Satellite (Earth to space)</p> <p>5.502, 5.503</p> <p>UK187</p> <p>UK4.55, 11</p>	<p>UK4.55 13.4-14.0 GHz – MoD for the Radiolocation service. 13.75-14.00 GHz - Ofcom for the Fixed-Satellite Service</p> <p>UK187 Earth stations in a geostationary-satellite network in the fixed-satellite service with an antenna diameter greater than or equal to 1.2 metres and less than 4.5 metres shall operate on a non-interference basis with respect to maritime Radiolocation stations.</p>
<p>14 – 14.25 GHz</p> <p>FIXED-SATELLITE (Earth to space) 5.457A, 5.484A, RADIONAVIGATION 5.504 Mobile-Satellite (Earth-to-space) 5.506A Space Research</p> <p>5.504A</p> <p>UK1</p>	
<p>14.25 – 14.3 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) MOBILE except aeronautical mobile RADIONAVIGATION 5.504 Mobile-Satellite (Earth-to-space) 5.506A 5.508A Space Research</p> <p>5.504A, 5.508, 5.509</p> <p>UK1</p>	

Region 1	Region 2	Region 3
13·25 – 13·4 GHz  EARTH EXPLORATION-SATELLITE (active) AERONAUTICAL RADIONAVIGATION 5.497 SPACE RESEARCH (active)  5.498A 5.499		
13·4 – 13·75 GHz  EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.501A Standard Frequency and Time Signal-Satellite (Earth-to-space)  5.499 5.500 5.501 5.501A 5.501B		
13·75 – 14 GHz  FIXED-SATELLITE (Earth-to-space) 5.484A RADIOLOCATION Earth Exploration-Satellite Standard Frequency and Time Signal-Satellite (Earth-to-space) Space Research  5.499 5.500 5.501 5.502 5.503		
14 – 14·25 GHz  FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B RADIONAVIGATION 5.504 Mobile-Satellite (Earth-to-space) 5.504B 5.504C 5.506A Space Research  5.504A 5.505		
14·25 – 14·3 GHz  FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B RADIONAVIGATION 5.504 Mobile-Satellite (Earth-to-space) 5.504B 5.506A 5.508A Space Research  5.504A 5.505 5.508 5.509		

Allocation to United Kingdom Services	Comments
14.3 – 14.4 GHz  FIXED FIXED-SATELLITE (Earth to space) 5.457A, 5.484A MOBILE except aeronautical mobile Mobile-Satellite (Earth-to-space) 5.506A 5.509A Radionavigation-Satellite  5.504A UK1	
14.4 – 14.47 GHz  FIXED FIXED-SATELLITE (Earth to space) 5.457A, 5.484A MOBILE except aeronautical mobile Mobile-Satellite (Earth-to-space) 5.506A 5.509A Space Research (space-to-Earth)  5.504A UK1	
14.47 – 14.5 GHz  FIXED FIXED-SATELLITE(Earth to space) 5.457A, 5.484A MOBILE except aeronautical mobile. Mobile-Satellite (Earth-to-space) 5.504B 5.506A 5.509A Radio Astronomy. UK 10  5.149, 5.504A UK1	
14.5 – 14.62 GHz  FIXED UK101 MOBILE Space Research  UK 1	
14.62 – 15.23 GHz  FIXED MOBILE  5.339 UK 2	



Region 1	Region 2	Region 3
14·3 – 14·4 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B MOBILE except aeronautical mobile Mobile-Satellite (Earth-to- space) 5.504B 5.506A 5.509A Radionavigation-Satellite  5.504A	14·3 – 14·4 GHz  FIXED-SATELLITE (Earth-to-space) 5.457A 5.484A 5.506 5.506B Mobile-Satellite (Earth-to- space) 5.506A Radionavigation-Satellite  5.504A	14·3 – 14·4 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.484A 5.506 5.506B MOBILE except aeronautical mobile Mobile-Satellite (Earth-to- space) 5.504B 5.506A 5.509A Radionavigation-Satellite  5.504A
14·4 – 14·47 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B MOBILE except aeronautical mobile Mobile-Satellite (Earth-to-space) 5.504B 5.506A 5.509A Space Research (space-to-Earth)  5.504A		
14·47 – 14·5 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B MOBILE except aeronautical mobile Mobile-Satellite (Earth-to-space) 5.504B 5.506A 5.509A Radio Astronomy  5.149 5.504A		
14·5 – 14·8 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.510 MOBILE Space Research		
14·8 – 15·35 GHz  FIXED MOBILE Space Research  5.339		

Allocation to United Kingdom Services	Comments
<p>15.23 – 15.35 GHz</p> <p>FIXED MOBILE</p> <p>5.339</p> <p>UK101</p> <p>UK 1</p>	<p>UK101 The allocation is for civil communications including national defence circuits operated by public telecommunications operators.</p>
<p>15.35 – 15.4 GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340</p> <p>UK10</p> <p>UK1</p>	
<p>15.4 – 15.43 GHz</p> <p>AERONAUTICAL RADIONAVIGATION RADIOLOCATION 5.A121 5.B121</p> <p>5.511D</p> <p>UK4.56</p>	<p>UK4.56 15.4-15.43 GHz – CAA/MoD</p>
<p>15.43 – 15.63 GHz</p> <p>AERONAUTICAL RADIONAVIGATION RADIOLOCATION 5.A121 5.B121 FIXED-SATELLITE (space-to-Earth) 5.511A,</p> <p>5.511C</p> <p>UK4.57</p>	<p>UK4.57 15.43-15.63 GHz – CAA/MoD for the Aeronautical Radionavigation service. Ofcom for the Fixed-Satellite service.</p>
<p>15.63 – 15.7 GHz</p> <p>AERONAUTICAL RADIONAVIGATION RADIOLOCATION 5.A121 5.B121</p> <p>5.511C</p> <p>UK4.58</p>	<p>UK4.58 15.63-15.7 GHz – CAA/MoD</p>
<p>15.7 – 16.6 GHz</p> <p>RADIOLOCATION</p> <p>UK2</p>	

Region 1	Region 2	Region 3
Cont...  14·8 – 15·35 GHz  FIXED MOBILE Space Research  5.339		
15·35 – 15·4 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 5.511		
15·4 – 15·43 GHz  RADIOLOCATION 5.A121 5.B121 AERONAUTICAL RADIONAVIGATION  5.511D		
15·43 – 15·63 GHz  FIXED-SATELLITE (space-to-Earth) 5.511A RADIOLOCATION 5.A121 5.B121 AERONAUTICAL RADIONAVIGATION  5.511C		
15·63 – 15·7 GHz  RADIOLOCATION 5.A121 5.B121 AERONAUTICAL RADIONAVIGATION 5.511D		
15·7 – 16·6 GHz  RADIOLOCATION  5.512 5.513		

Allocation to United Kingdom Services	Comments
16.6 – 17.1 GHz  RADIOLOCATION Space Research (deep space) (Earth-to-space)  UK2	
17.1 – 17.2 GHz  RADIOLOCATION   UK2, 11	
17.2 – 17.3 GHz  EARTH EXPLORATION-SATELLITE (active) MOBILE RADIOLOCATION SPACE RESEARCH (active)  5.513A UK2, 11	
17.3 – 17.7 GHz  FIXED UK131 FIXED-SATELLITE (Earth to space) 5.516 (space to Earth) 5.516A 5.516B Radiolocation UK 5.44 UK1	UK5.44 17.3-17.7 GHz –MoD for the Radiolocation service.  UK131 Legacy Point-to-Point systems operate in this band.
17.7 – 18.1 GHz  FIXED FIXED-SATELLITE (Earth to space) 5.516 (space to Earth 5.484A   UK1	

Region 1	Region 2	Region 3
16·6 – 17·1 GHz  RADIOLOCATION Space Research (deep space) (Earth-to-space)  5.512 5.513		
17·1 – 17·2 GHz  RADIOLOCATION  5.512 5.513		
17·2 – 17·3 GHz  EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active)  5.512 5.513 5.513A		
17·3 – 17·7 GHz  FIXED-SATELLITE (Earth-to-space) 5.516 (space to Earth) 5.516A 5.516B Radiolocation  5.514	17·3 – 17·7 GHz  FIXED-SATELLITE (Earth-to-space) 5.516 BROADCASTING-SATELLITE Radiolocation  5.514 5.515	17·3 – 17·7 GHz  FIXED-SATELLITE (Earth-to-space) 5.516 Radiolocation  5.514
17·7 – 18·1 GHz  FIXED FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.516 MOBILE	17·7 – 17·8 GHz  FIXED FIXED-SATELLITE (space-to-Earth) 5.517 (Earth-to-space) 5.516 BROADCASTING-SATELLITE Mobile  5.515	17·7 – 18·1 GHz  FIXED FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.516 MOBILE
	17·8 – 18·1 GHz  FIXED FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.516 MOBILE  5.519	

Allocation to United Kingdom Services	Comments
<p>18.1 – 18.4 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.520 (space to Earth) 5.484A 5.516B</p> <p>5.519 UK1</p>	
<p>18.4 – 18.6 GHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) 5.484A, 5.516B</p> <p>UK1</p>	
<p>18.6 – 18.8 GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) FIXED FIXED-SATELLITE (space to Earth) 5.522B Space Research (passive)</p> <p>5.522A UK1</p>	
<p>18.8 – 19.3 GHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) 5.516B, 5.523A</p> <p>UK1, 99c</p>	<p>UK99c The use of 19.0 GHz for the calibration of EMC equipment by MoD is permitted non-interference basis to other users.</p>
<p>19.3 – 19.7 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) (space to Earth) 5.523B, 5.523C, 5.523D, 5.523E.</p> <p>UK1, 99</p>	<p>UK99c The use of 19.0 GHz for the calibration of EMC equipment by MoD is permitted non-interference basis to other users.</p>

Region 1	Region 2	Region 3
18·1 – 18·4 GHz  FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B (Earth-to-space) 5.520 MOBILE  5.519 5.521		
18·4 – 18·6 GHz  FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B MOBILE		
18·6 – 18·8 GHz  EARTH EXPLORATION-SATELLITE (passive). FIXED FIXED-SATELLITE (space-to-Earth) 5.522B MOBILE except aeronautical mobile Space Research (passive)  5.522A 5.522C	18·6 – 18·8 GHz  EARTH EXPLORATION-SATELLITE (passive) FIXED FIXED-SATELLITE (space-to-Earth) 5.516B 5.522B MOBILE except aeronautical mobile SPACE RESEARCH (passive)  5.522A	18·6 – 18·8 GHz  EARTH EXPLORATION-SATELLITE (passive). FIXED FIXED-SATELLITE (space-to-Earth) 5.522B MOBILE except aeronautical mobile Space Research (passive)  5.522A
18·8 – 19·3 GHz  FIXED FIXED-SATELLITE (space-to-Earth) 5.516B 5.523A MOBILE		
19·3 – 19·7 GHz  FIXED FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 5.523B 5.523C 5.523D 5.523E MOBILE		

Allocation to United Kingdom Services	Comments
19.7 – 20.1 GHz  FIXED-SATELLITE (space to Earth) 5.484A, 5.516B Mobile-Satellite (space to Earth)  UK 1	
20.1 – 20.2 GHz  FIXED-SATELLITE (space to Earth) 5.484A, 5.516B MOBILE-SATELLITE (space-to-Earth)  5.525 5.526 5.527 5.528 UK 1	
20.2 – 21.2 GHz  FIXED-SATELLITE (space to Earth) MOBILE-SATELLITE (space to Earth)  UK 2	
21.2 – 21.4 GHz  EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)  UK 1	
21.4 – 22 GHz  BROADCASTING-SATELLITE 5.208B FIXED MOBILE  5.D113 5.B113 5.C113 5.F113 UK 1, 11, EU11	EU11 Commission Decisions 2005/50/EC and 2011/485/EU (harmonised use of 21.65-26.65 GHz for Automotive SRR) applies.



Region 1	Region 2	Region 3
19.7 – 20.1 GHz  FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B Mobile-Satellite (space-to-Earth)  5.524	19.7 – 20.1 GHz  FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B MOBILE-SATELLITE (space-to-Earth)  5.524 5.525 5.526 5.527 5.528 5.529	19.7 – 20.1 GHz  FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B Mobile-Satellite (space-to-Earth)  5.524
20.1 – 20.2 GHz  FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B MOBILE-SATELLITE (space-to-Earth)  5.524 5.525 5.526 5.527 5.528		
20.2 – 21.2 GHz  FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Standard Frequency and Time Signal (space-to-Earth)  5.524		
21.2 – 21.4 GHz  EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)		
21.4 – 22 GHz  FIXED MOBILE BROADCASTING-SATELLITE 5.208B  5.D113 5.B113 5.C113 5.F113	21.4 – 22 GHz  FIXED MOBILE  5.D113 5.C113	21.4 – 22 GHz  FIXED MOBILE BROADCASTING-SATELLITE 5.208B  5.D113 5.531 5.B113 5.C113 5.F113

Allocation to United Kingdom Services	Comments
<p>22 – 22.21 GHz</p> <p>FIXED MOBILE except aeronautical mobile RADIOASTRONOMY SPACE RESEARCH</p> <p>5.149 UK 1, 10, 11, EU11</p>	<p>EU11 Commission Decisions 2005/50/EC and 2011/485/EU (harmonised use of 21.65-26.65 GHz for Automotive SRR) applies.</p>
<p>22.21 – 22.5 GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.149, 5.532 UK 1, 10, 11, EU11</p>	<p>EU11 Commission Decisions 2005/50/EC and 2011/485/EU (harmonised use of 21.65-26.65 GHz for Automotive SRR) applies.</p>
<p>22.5 – 22.55 GHz</p> <p>FIXED MOBILE</p> <p>UK 1, 10, 11, EU11</p>	<p>EU11 Commission Decisions 2005/50/EC and 2011/485/EU (harmonised use of 21.65-26.65 GHz for Automotive SRR) applies.</p>
<p>22.55 – 23.15 GHz</p> <p>FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.149 UK1, 10, 11, EU11</p>	<p>EU11 Commission Decisions 2005/50/EC and 2011/485/EU (harmonised use of 21.65-26.65 GHz for Automotive SRR) applies.</p>
<p>23.15 – 23.55 GHz</p> <p>FIXED INTER-SATELLITE 5.338A MOBILE except aeronautical mobile Radio Astronomy</p> <p>5.149 UK1, 10, 11, EU11</p>	<p>EU11 Commission Decisions 2005/50/EC and 2011/485/EU (harmonised use of 21.65-26.65 GHz for Automotive SRR) applies.</p>
<p>23.55 – 23.6 GHz</p> <p>FIXED MOBILE</p> <p>UK1, 11, EU11</p>	<p>EU11 Commission Decisions 2005/50/EC and 2011/485/EU (harmonised use of 21.65-26.65 GHz for Automotive SRR) applies.</p>

Region 1	Region 2	Region 3
22 – 22.21 GHz  FIXED MOBILE except aeronautical mobile  5.149		
22.21 – 22.5 GHz  EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive)  5.149 5.532		
22.5 – 22.55 GHz  FIXED MOBILE		
22.55 – 23.15 GHz  FIXED INTER-SATELLITE 5.338A MOBILE SPACE RESEARCH (Earth-to-space) 5.A111  5.149		
23.15 – 23.55 GHz  FIXED INTER-SATELLITE 5.338A MOBILE		
23.55 – 23.6GHz  FIXED MOBILE		

Allocation to United Kingdom Services	Comments
23.6 – 24 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY UK10 SPACE RESEARCH (passive)  5.340 UK1, 11, EU11	EU11 Commission Decisions 2005/50/EC and 2011/485/EU (harmonised use of 21.65-26.65 GHz for Automotive SRR) applies.
24 – 24.05 GHz  AMATEUR AMATEUR-SATELLITE  5.150 UK1, 6, 7, 11, EU11	EU11 Commission Decisions 2005/50/EC and 2011/485/EU (harmonised use of 21.65-26.65 GHz for Automotive SRR) applies.
24.05 – 24.25 GHz  RADIOLOCATION UK3.26 Amateur  5.150 UK1, 6, 7, 11, 216, EU1, EU11	UK3.26 24.05-24.15 GHz - Emergency Services use (see Annex I).  UK216 Railway level-crossing radar operate in the band 24.100 to 24.350 GHz. No deployments within 20 km of a Radio Astronomy site.  EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.  EU11 Commission Decisions 2005/50/EC and 2011/485/EU (harmonised use of 21.65-26.65 GHz for Automotive SRR) applies.
24.25 – 24.65 GHz  FIXED UK99d  UK1, 11, 27, 216, EU1, EU11	UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.  UK99d MoD - 24.27 GHz for EMC testing.  UK216 Railway level-crossing radar operate in the band 24.100 to 24.350 GHz. No deployments within 20 km of a Radio Astronomy site.  EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.  EU11 Commission Decisions 2005/50/EC and 2011/485/EU (harmonised use of 21.65-26.65 GHz for Automotive SRR) applies.
24.65 – 24.75 GHz  FIXED UK5.45 FIXED-SATELLITE (Earth-to-space) 5.A113 INTER-SATELLITE  UK1, 11, EU1, EU11	UK5.45 Ofcom – For the Fixed Service.  EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.  EU11 Commission Decisions 2005/50/EC and 2011/485/EU (harmonised use of 21.65-26.65 GHz for Automotive SRR) applies.

Region 1	Region 2	Region 3
23·6 – 24 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340		
24 – 24·05 GHz  AMATEUR AMATEUR-SATELLITE  5.150		
24·05 – 24·25 GHz  RADIOLOCATION Amateur Earth Exploration-Satellite (active)  5.150		
24·25 – 24·45 GHz  FIXED	24·25 – 24·45 GHz  RADIONAVIGATION	24·25 – 24·45 GHz  RADIONAVIGATION FIXED MOBILE
24·45 – 24·65 GHz  FIXED INTER-SATELLITE	24·45 – 24·65 GHz  INTER-SATELLITE RADIONAVIGATION  5.533	24·45 – 24·65 GHz  FIXED INTER-SATELLITE MOBILE RADIONAVIGATION  5.533
24·65 – 24·75 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.A113 INTER-SATELLITE	24·65 – 24·75 GHz  INTER-SATELLITE RADIOLOCATION-SATELLITE (Earth-to-space)	24·65 – 24·75 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.A113 INTER-SATELLITE MOBILE  5.533

Allocation to United Kingdom Services	Comments
<p>24.75 – 25.25 GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.A113</p> <p>UK 161</p> <p>UK1, 11, EU1, EU11</p>	<p>UK161 CEPT T/R 13-02 channel plan</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU11 Commission Decisions 2005/50/EC and 2011/485/EU (harmonised use of 21.65-26.65 GHz for Automotive SRR) applies.</p>
<p>25.25 – 25.5 GHz</p> <p>FIXED MOBILE INTER-SATELLITE 5.536</p> <p>UK 161</p> <p>UK1, 11, EU1, EU11</p>	<p>UK161 CEPT T/R 13-02 channel plan</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU11 Commission Decisions 2005/50/EC and 2011/485/EU (harmonised use of 21.65-26.65 GHz for Automotive SRR) applies.</p>
<p>25.5 – 26.5 GHz</p> <p>EARTH EXPLORATION-SATELLITE (space-to-Earth) 5.536A, 5.536B FIXED MOBILE INTER-SATELLITE 5.536 SPACE RESEARCH (space-to-Earth) 5.536A 5.536C Standard Frequency and Time Signal-Satellite (Earth-to-space)</p> <p>UK 161</p> <p>UK1, 11, EU1, EU11</p>	<p>UK161 CEPT T/R 13-02 channel plan</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU11 Commission Decisions 2005/50/EC and 2011/485/EU (harmonised use of 21.65-26.65 GHz for Automotive SRR) applies.</p>
<p>26.5 – 27 GHz</p> <p>EARTH EXPLORATION-SATELLITE (space-to-Earth) 5.536A, 5.536B FIXED MOBILE INTER-SATELLITE 5.536 SPACE RESEARCH (space-to-Earth) 5.536A 5.536C Standard Frequency and Time Signal-Satellite (Earth-to-space)</p> <p>UK2, 11, EU1, EU11</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU11 Commission Decisions 2005/50/EC and 2011/485/EU (harmonised use of 21.65-26.65 GHz for Automotive SRR) applies.</p>
<p>27 – 27.5 GHz</p> <p>FIXED MOBILE INTER-SATELLITE 5.536</p> <p>UK2, 99e</p>	<p>UK99e The use of 27.25 GHz by MoD for the calibration of EMC equipment is permitted non-interference basis to other users.</p>

Region 1	Region 2	Region 3
24.75 – 25.25 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.A113	24.75 – 25.25 GHz  FIXED-SATELLITE (Earth-to-space) 5.535	24.75 – 25.25 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.535 MOBILE
25.25 – 25.5 GHz  FIXED INTER-SATELLITE 5.536 MOBILE Standard Frequency and Time Signal-Satellite (Earth-to-space)		
25.5 – 27 GHz  EARTH EXPLORATION-SATELLITE (space-to-Earth) 5.536B FIXED INTER-SATELLITE 5.536 MOBILE SPACE RESEARCH (space-to-Earth) 5.536C Standard Frequency and Time Signal-Satellite (Earth-to-space)  5.536A		
27 – 27.5 GHz  FIXED INTER-SATELLITE 5.536 MOBILE	27 – 27.5 GHz  FIXED FIXED-SATELLITE (Earth-to-space) INTER-SATELLITE 5.536 5.537 MOBILE	

Allocation to United Kingdom Services	Comments
<p>27.5 – 28.5 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.484A, 5.516B, 5.539, MOBILE 5.538, 5.540</p> <p>UK1, 207</p>	<p>UK207 The bands 27.8285-28.445 GHz and 28.2365-29.4525 GHz have been awarded by Ofcom by auction (see General Note 5.2, c).</p>
<p>28.5 – 29.1 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.484A, 5.516B, 5.523A, 5.539 MOBILE Earth Exploration-Satellite (Earth-to-space) 5.541 5.540</p> <p>UK1, 207</p>	<p>UK207 The bands 27.8285-28.445 GHz and 28.2365-29.4525 GHz have been awarded by Ofcom by auction (see General Note 5.2, c).</p>
<p>29.1 – 29.5 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.516B, 5.523C, 5.523E, 5.535A, 5.539, 5.541A MOBILE Earth Exploration-Satellite (Earth-to-space) 5.541 5.540</p> <p>UK1, 207</p>	<p>UK207 The bands 27.8285-28.445 GHz and 28.2365-29.4525 GHz have been awarded by Ofcom by auction (see General Note 5.2, c).</p>
<p>29.5 – 29.9 GHz</p> <p>FIXED-SATELLITE (Earth to space) 5.484A, 5.516B, 5.539 Earth Exploration-Satellite (Earth-to-space) 5.541 Mobile-Satellite (Earth to space) 5.540</p> <p>UK1</p>	
<p>29.9 – 30 GHz</p> <p>FIXED-SATELLITE (Earth to space) 5.539 MOBILE-SATELLITE (Earth-to-space) Earth Exploration-Satellite (Earth-to-space) 5.541 5.525, 5.526, 5.527, 5.538, 5.540</p> <p>UK1</p>	



Region 1	Region 2	Region 3
27·5 – 28·5 GHz  FIXED 5.537A FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 MOBILE  5.538 5.540		
28·5 – 29·1 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.523A 5.539 MOBILE Earth Exploration-Satellite (Earth-to-space) 5.541  5.540		
29·1 – 29·5 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.516B 5.523C, 5.523E, 5.535A 5.539 5.541A MOBILE Earth Exploration-Satellite (Earth-to-space) 5.541  5.540		
29·5 – 29·9 GHz  FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 Earth Exploration-Satellite (Earth-to-space) 5.541 Mobile-Satellite (Earth-to-space)  5.540 5.542	29·5 – 29·9 GHz  FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 MOBILE-SATELLITE (Earth-to-space) Earth Exploration-Satellite (Earth-to-space) 5.541  5.525 5.526 5.527 5.529 5.540 5.542	29·5 – 29·9 GHz  FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 Earth Exploration-Satellite (Earth-to-space) 5.541 Mobile-Satellite (Earth-to-space)  5.540 5.542
29·9 – 30 GHz  FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 MOBILE-SATELLITE (Earth-to-space) Earth Exploration-Satellite (Earth-to-space) 5.541 5.543  5.525 5.526 5.527 5.538 5.540 5.542		

Allocation to United Kingdom Services	Comments
<p>30 – 31 GHz</p> <p>FIXED-SATELLITE (Earth to space) 5.338A MOBILE-SATELLITE (Earth to space)</p> <p>5.542 UK2</p>	
<p>31 – 31.3 GHz</p> <p>FIXED 5.338A MOBILE Standard Frequency and Time Signal-Satellite (space-to-Earth) Space Research 5.544</p> <p>5.149 UK1</p>	
<p>31.3 – 31.5 GHz</p> <p>EARTH EXPLORATION SATELLITE (passive) RADIO ASTRONOMY UK10 SPACE RESEARCH (passive)</p> <p>5.340 UK1</p>	
<p>31.5 – 31.8 GHz</p> <p>FIXED MOBILE EARTH EXPLORATION SATELLITE (passive) RADIO ASTRONOMY UK10 SPACE RESEARCH (passive)</p> <p>5.149, 5.546 UK1</p>	
<p>31.8 – 32 GHz</p> <p>FIXED 5.547A RADIONAVIGATION SPACE RESEARCH (deep space) (space to Earth)</p> <p>5.547, 5.548 UK1, 220</p>	<p>UK220 The band 31.85-33.383 GHz has been awarded by Ofcom by auction – see General Note 5.2, c).</p>

Region 1	Region 2	Region 3
30 – 31 GHz  FIXED-SATELLITE (Earth-to-space) 5.338A MOBILE-SATELLITE (Earth-to-space) Standard Frequency and Time Signal-Satellite (space-to-Earth)  5.542		
31 – 31.3 GHz  FIXED 5.338A 5.543A MOBILE Standard Frequency and Time Signal-Satellite (space-to-Earth) Space Research 5.544 5.545  5.149		
31.3 – 31.5 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340		
31.5 – 31.8 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile  5.149 5.546	31.5 – 31.8 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340	31.5 – 31.8 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile  5.149
31.8 – 32 GHz  FIXED 5.47A RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth)  5.547 5.547B 5.548		

Allocation to United Kingdom Services	Comments
<p>32 – 32.3 GHz</p> <p>FIXED 5.547A INTER-SATELLITE RADIONAVIGATION SPACE RESEARCH (deep space) (space to Earth)</p> <p>5.547, 5.548</p> <p>UK1, 220</p>	<p>UK220 The band 31.85-33.383 GHz has been awarded by Ofcom by auction (see General Note 5.2, c).</p>
<p>32.3 – 33 GHz</p> <p>FIXED 5.547A INTER-SATELLITE RADIONAVIGATION</p> <p>5.547, 5.548</p> <p>UK99f</p> <p>UK1, 220</p>	<p>UK99f The use of 32.6 GHz by the MoD to calibrate EMC equipment is permitted non-interference basis to other users.</p> <p>UK220 The band 31.85-33.383 GHz has been awarded by Ofcom by auction (see General Note 5.2, c).</p>
<p>33 – 33.4 GHz</p> <p>FIXED 5.547A RADIONAVIGATION</p> <p>5.547, 5.548</p> <p>UK1, 220</p>	<p>UK220 The band 31.85-33.383 GHz has been awarded by Ofcom by auction (see General Note 5.2, c).</p>
<p>33.4 – 34.2 GHz</p> <p>RADIOLOCATION</p> <p>UK2</p>	
<p>34.2 – 34.7 GHz</p> <p>RADIOLOCATION SPACE RESEARCH (deep space) (Earth to space)</p> <p>UK2, 136</p>	<p>UK136 8mm MDM survey equipment may operate within 34.3-35.1 GHz on a secondary basis.</p>
<p>34.7 – 35.2 GHz</p> <p>RADIOLOCATION Space Research</p> <p>UK2, 136</p>	<p>UK136 8mm MDM survey equipment may operate within 34.3-35.1 GHz on a secondary basis.</p>
<p>35.2 – 35.5 GHz</p> <p>METEOROLOGICAL AIDS RADIOLOCATION</p> <p>5.551</p> <p>UK2</p>	

Region 1	Region 2	Region 3
32 – 32.3 GHz  FIXED 547A RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth)  5.547 5.547C 5.548		
32.3 – 33 GHz  FIXED 547A INTER-SATELLITE RADIONAVIGATION  5.547 5.547D 5.548		
33 – 33.4 GHz  FIXED 547A RADIONAVIGATION  5.547 5.547E		
33.4 – 34.2 GHz  RADIOLOCATION  5.549		
34.2 – 34.7 GHz  RADIOLOCATION SPACE RESEARCH (deep space) (Earth-to-space)  5.549		
34.7 – 35.2 GHz  RADIOLOCATION Space Research 5.550  5.549		
35.2 – 35.5 GHz  METEOROLOGICAL AIDS RADIOLOCATION  5.549		

Allocation to United Kingdom Services	Comments
<p>35.5 – 36 GHz</p> <p>EARTH EXPLORATION -SATELLITE (active) METEOROLOGICAL AIDS RADIOLOCATION SPACE RESEARCH (active) (Earth to space)</p> <p>5.549A UK2</p>	
<p>36 – 37 GHz</p> <p>EARTH EXPLORATION SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)</p> <p>5.149, 5.550A UK2</p>	
<p>37 – 37.5 GHz</p> <p>FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space to Earth)</p> <p>UK1</p>	
<p>37.5 – 38 GHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) MOBILE except aeronautical mobile SPACE RESEARCH (space to Earth) Earth Exploration-Satellite (space to Earth)</p> <p>5.547 UK1</p>	
<p>38 – 39.5 GHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) MOBILE Earth Exploration-Satellite (space to Earth)</p> <p>5.547 UK1</p>	

Region 1	Region 2	Region 3
35.5 – 36 GHz  METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active)  5.549 5.549A		
36 – 37 GHz  EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)  5.149 5.550A		
37 – 37.5 GHz  FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-Earth)  5.547		
37.5 – 38 GHz  FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile SPACE RESEARCH (space-to-Earth) Earth Exploration-Satellite (space-to-Earth)  5.547		
38 – 39.5 GHz  FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Earth Exploration-Satellite (space-to-Earth)  5.547		

Allocation to United Kingdom Services	Comments
<p>39·5 – 40 GHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) 5.516B MOBILE MOBILE-SATELLITE (space to Earth) Earth Exploration-Satellite (space to Earth)</p> <p>5.547 UK2</p>	
<p>40 – 40·5 GHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) 5.516B MOBILE MOBILE-SATELLITE (space to Earth) SPACE RESEARCH (Earth to space) Earth Exploration-Satellite (space to Earth)</p> <p>UK2</p>	
<p>40·5 – 41 GHz</p> <p>BROADCASTING-SATELLITE FIXED</p> <p>5.547 UK1, 208</p>	<p>UK208 The band 40·50-43·50 GHz has been awarded by Ofcom by auction (see General Note 5.2, c).</p>
<p>41 – 42·5 GHz</p> <p>BROADCASTING-SATELLITE FIXED</p> <p>5.547, 5.551H, 5.551I UK1, 208</p>	<p>UK208 The band 40·50-43·50 GHz has been awarded by Ofcom by auction (see General Note 5.2, c).</p>
<p>42·5 – 43·5 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.552 MOBILE except aeronautical mobile RADIO ASTRONOMY UK10</p> <p>5.149 5.547 UK1, 208</p>	<p>UK208 The band 40·50-43·50 GHz has been awarded by Ofcom by auction (see General Note 5.2, c).</p>



Region 1	Region 2	Region 3
39.5 – 40 GHz  FIXED FIXED-SATELLITE (space-to-Earth) 5.516B MOBILE MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite (space-to-Earth)  5.547		
40 – 40.5 GHz  EARTH EXPLORATION-SATELLITE (Earth-to-space) FIXED FIXED-SATELLITE (space-to-Earth) 5.516B MOBILE MOBILE-SATELLITE (space-to-Earth) SPACE RESEARCH (Earth-to-space) Earth Exploration-Satellite (space-to-Earth)		
40.5 – 41 GHz  FIXED FIXED-SATELLITE (space-to Earth) BROADCASTING BROADCASTING-SATELLITE Mobile  5.547	40.5 – 41 GHz  FIXED FIXED-SATELLITE (space to Earth) 5.516B BROADCASTING BROADCASTING-SATELLITE Mobile Mobile-satellite (space-to-Earth)  5.547	40.5 – 41 GHz  FIXED FIXED-SATELLITE (space to Earth) BROADCASTING BROADCASTING-SATELLITE Mobile  5.547
41 – 42.5 GHz  FIXED FIXED-SATELLITE (space-to-Earth) 5.516B BROADCASTING BROADCASTING-SATELLITE Mobile  5.547 5.551F 5.551H 5.551I		
42.5 – 43.5 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE except aeronautical mobile RADIO ASTRONOMY  5.149 5.547		

Allocation to United Kingdom Services	Comments
43·5 – 45·5 GHz MOBILE 5.553 MOBILE SATELLITE 5.554 UK2	
45·5 – 47 GHz MOBILE 5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION- SATELLITE 5.554 UK1	
47 – 47·2 GHz AMATEUR AMATEUR-SATELLITE UK1, 7	
47·2 – 47·5 GHz FIXED FIXED-SATELLITE (Earth to space) 5.552 MOBILE 5.552A UK1	
47·5 – 47·9 GHz FIXED FIXED-SATELLITE (Earth to space) 5.552 (space-to-Earth) 5.516B 5.554A MOBILE UK1	
47·9 – 48·2 GHz FIXED FIXED-SATELLITE (Earth to space) 5.552 MOBILE 5.552A, UK1, 27	UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.

Region 1	Region 2	Region 3
43·5 – 47 GHz  MOBILE 5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE  5.554		
47 – 47·2 GHz  AMATEUR AMATEUR-SATELLITE		
47·2 – 47·5 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE  5.552A		
47·5 – 47·9 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.552 (space-to-Earth) 5.516B 5.554A MOBILE	47·5 – 47·9 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE	
47·9 – 48·2 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE  5.552A		

Allocation to United Kingdom Services	Comments
<p>48·2 – 48·54 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.552 (space-to-Earth) 5.516B 5.554A 5.555A MOBILE</p> <p>5.149, 5.340, 5.552A, 5.555 UK1, 27</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>
<p>48·54 – 49·44 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.552 MOBILE</p> <p>5.149, 5.340, 5.555 UK1, 10</p>	
<p>49·44 – 50·2 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.552, 5.338A (space-to-Earth) 5.516B 5.554A 5.555B MOBILE</p> <p>UK1</p>	
<p>50·2 – 50·4 GHz</p> <p>EARTH EXPLORATION- SATELLITE (passive) FIXED MOBILE SPACE RESEARCH</p> <p>5.340 UK1, 3.27</p>	<p>UK3.27 50.20-50.40 GHz paired with 51.20-51.40 GHz - Emergency Services use (see Annex I).</p>
<p>50·4 – 51·4 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.338A Mobile Satellite (Earth to space)</p> <p>UK2, 3.28</p>	
<p>51·4 – 52·6 GHz</p> <p>FIXED 5.338A MOBILE</p> <p>5.547, 5.556 UK1, 10</p>	

Region 1	Region 2	Region 3
48·2 – 48·54 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.552 (space-to-Earth) 5.516B 5.554A 5.555B MOBILE	48·2 – 50·2 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.516B 5.338A 5.552 MOBILE  5.149 5.340 5.555	
48·54 – 49·44 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE  5.149 5.340 5.555		
49·44 – 50·2 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.338A 5.552 (space-to-Earth) 5.516B 5.554A 5.555B MOBILE		
50·2 – 50·4 GHz  EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)  5.340		
50·4 – 51·4 GHz  FIXED FIXED-SATELLITE (Earth-to-space) 5.338A MOBILE Mobile-Satellite (Earth-to-space)		
51·4 – 52·6 GHz  FIXED 5.338A MOBILE  5.547 5.556		

Allocation to United Kingdom Services	Comments
<p>52·6 – 54·25 GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)</p> <p>5.340, 5.556 UK1, 10</p>	
<p>54·25 – 55·78 GHz</p> <p>EARTH EXPLORATION- SATELLITE (passive) SPACE RESEARCH (passive)</p> <p>UK1</p>	
<p>55·78 – 56·9 GHz</p> <p>EARTH EXPLORATION- SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE except aeronautical 5.558 SPACE RESEARCH (passive)</p> <p>5.547 UK1</p>	
<p>56·9 – 57 GHz</p> <p>EARTH EXPLORATION- SATELLITE (passive) FIXED INTER-SATELLITE 5.558A MOBILE except aeronautical mobile 5.558 SPACE RESEARCH (passive)</p> <p>5.547 UK1</p>	
<p>57 – 58·2 GHz</p> <p>EARTH EXPLORATION- SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE except aeronautical 5.558 SPACE RESEARCH (passive)</p> <p>5.547 UK1, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>

Region 1	Region 2	Region 3
52·6 – 54·25 GHz  EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)  5.340 5.556		
54·25 – 55·78 GHz  EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.556A SPACE RESEARCH (passive)  5.556B		
55·78 – 56·9 GHz  EARTH EXPLORATION-SATELLITE (passive) FIXED 5.557A INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive)  5.547 5.557		
56·9 – 57·0 GHz  EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.558A MOBILE 5.558 SPACE RESEARCH (passive)  5.547 5.557		
57·0 – 58·2 GHz  EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive)  5.547 5.557		

Allocation to United Kingdom Services	Comments
<p>58.2 – 59 GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)</p> <p>5.547, 5.556 UK1, 10, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>59 – 59.3 GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 RADIOLOCATION 5.559 SPACE RESEARCH (passive)</p> <p>UK4.59, 11, EU1</p>	<p>UK4.59 59.0-59.3 GHz – Ofcom for the Fixed and Mobile services. MoD for the Radiolocation service.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>59.3 – 64 GHz</p> <p>FIXED INTER-SATELLITE MOBILE 5.558 RADIOLOCATION 5.559</p> <p>5.138 UK4.60, 6, 11, EU1</p>	<p>UK4.60 59.3-64.0 GHz – Ofcom for the Fixed and Mobile services. MoD for the Radiolocation service.</p> <p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>64 – 65 GHz</p> <p>FIXED INTER-SATELLITE MOBILE except aeronautical mobile</p> <p>5.547, 5.556 UK1, 10, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>65 – 66 GHz</p> <p>EARTH EXPLORATION-SATELLITE FIXED INTER-SATELLITE MOBILE except aeronautical mobile SPACE RESEARCH</p> <p>5.547 UK1, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>



Region 1	Region 2	Region 3
58.2 – 59 GHz  EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)  5.547 5.556		
59 – 59.3 GHz  EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 RADIOLOCATION 5.559 SPACE RESEARCH (passive)		
59.3 – 64 GHz  FIXED INTER-SATELLITE MOBILE 5.558 RADIOLOCATION 5.559  5.138		
64 – 65 GHz  FIXED INTER-SATELLITE MOBILE except aeronautical mobile  5.547 5.556		
65 – 66 GHz  EARTH EXPLORATION-SATELLITE FIXED INTER-SATELLITE MOBILE except aeronautical mobile SPACE RESEARCH  5.547		

Allocation to United Kingdom Services	Comments
<p>66 – 71 GHz</p> <p>INTER-SATELLITE MOBILE 5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE</p> <p>5.554 UK1</p>	
<p>71 – 74 GHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) MOBILE MOBILE-SATELLITE (space to Earth)</p> <p>UK4.61</p>	<p>UK4.61 Ofcom for the Fixed and Mobile services. MoD for the Fixed-Satellite and Mobile-Satellite services.</p>
<p>74 – 75.5 GHz</p> <p>BROADCASTING BROADCASTING-SATELLITE FIXED FIXED-SATELLITE (space to Earth) MOBILE Space Research (space to Earth)</p> <p>5.561 UK1, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>75.5 – 76 GHz</p> <p>BROADCASTING BROADCASTING-SATELLITE FIXED FIXED-SATELLITE (space to Earth) MOBILE Amateur Amateur Satellite Space Research (space to Earth)</p> <p>5.561 UK1, 7, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>76 – 77.5 GHz</p> <p>RADIOASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space Research (space to Earth)</p> <p>5.149 UK1, 7, 10, 11, EU1, EU12</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU12 Commission Decision 2005/545/EC (harmonised use of 77-81 GHz for Automotive SRR) applies.</p>

Region 1	Region 2	Region 3
66 – 71 GHz  INTER-SATELLITE MOBILE 5.553 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE  5.554		
71 – 74 GHz  FIXED FIXED-SATELLITE (space to Earth) MOBILE MOBILE-SATELLITE (space to Earth)		
74 – 76 GHz  FIXED FIXED-SATELLITE (space-to-Earth) MOBILE BROADCASTING BROADCASTING-SATELLITE Space Research (space-to-Earth)  5.561		
76 – 77.5 GHz  RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space research (space-to-Earth)  5.149		

Allocation to United Kingdom Services	Comments
<p>77.5 – 78 GHz</p> <p>AMATEUR AMATEUR-SATELLITE RADIOLOCATION Radio Astronomy Space Research (space to Earth)</p> <p>5.149                      UK1, 7, 10, 11, EU1, EU12</p>	<p>EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU12      Commission Decision 2005/545/EC (harmonised use of 77-81 GHz for Automotive SRR) applies.</p>
<p>78 – 79 GHz</p> <p>RADIOLOCATION Amateur Amateur-satellite Radio Astronomy Space Research (space to Earth)</p> <p>5.149, 5.560              UK4.60, 7, 10, 11, EU1 , EU12</p>	<p>UK4.60      78-79 GHz Ofcom &amp; MoD for civil/military Radio location.</p> <p>EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU12      Commission Decision 2005/545/EC (harmonised use of 77-81 GHz for Automotive SRR) applies.</p>
<p>79 – 81 GHz</p> <p>RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space Research (space to Earth)</p> <p>5.149                      UK2, 7, 10, 11, EU1, EU12</p>	<p>EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p> <p>EU12      Commission Decision 2005/545/EC (harmonised use of 77-81 GHz for Automotive SRR) applies.</p>
<p>81 – 84 GHz</p> <p>FIXED 5.338A FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE-SATELLITE (Earth-to-space) RADIOASTRONOMY Space Research (space to Earth)</p> <p>5.149 5.561A              UK4.61, 10, 11</p>	<p>UK4.61      Ofcom for the Fixed and Mobile services. MoD for the Fixed-Satellite and Mobile-Satellite services.</p> <p>EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>84 – 86 GHz</p> <p>FIXED 5.338A FIXED-SATELLITE (Earth-to-space) MOBILE RADIOASTRONOMY</p> <p>5.149                      UK1, 10, 11</p>	<p>EU1      Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>

Region 1	Region 2	Region 3
77.5 – 78 GHz  AMATEUR AMATEUR-SATELLITE Radio Astronomy Space research (space-to-Earth)  5.149		
78 – 79 GHz  RADIOLOCATION Amateur Amateur-satellite Radio Astronomy Space research (space-to-Earth)  5.149 5.560		
79 – 81 GHz  RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space research (space-to-Earth)  5.149		
81 – 84 GHz  FIXED 5.338A FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY Space Research (space-to-Earth)  5.149 5.561A		
84 – 86 GHz  FIXED 5.338A FIXED-SATELLITE (Earth-to-space) 5.561B MOBILE RADIO ASTRONOMY  5.149		

Allocation to United Kingdom Services	Comments
<p>86 – 92 GHz</p> <p>EARTH EXPLORATION- SATELLITE (passive) RADIOASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340 UK1, 10, 146</p>	<p>UK146 Continuum measurements are conducted between 86·0-92·0 GHz.</p>
<p>92 – 94 GHz</p> <p>FIXED 5.338A MOBILE RADIOASTRONOMY RADIOLOCATION UK5.48</p> <p>5.149 UK1, 10, 147</p>	<p>UK147 Diazenylium line observations are conducted between 92·0-95·0 GHz.</p> <p>UK5.48 MoD for the Radiolocation service.</p>
<p>94 – 94·1 GHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION UK5.49 SPACE-RESEARCH (active) Radioastronomy</p> <p>5.562, 5.562A UK1, 10, 147</p>	<p>UK147 Diazenylium line observations are conducted between 92·0-95·0 GHz.</p> <p>UK5.49 MoD for the Radiolocation service.</p>
<p>94·1 – 95 GHz</p> <p>FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION UK5.50</p> <p>5.149 UK1, 10, 147</p>	<p>UK147 Diazenylium line observations are conducted between 92·0-95·0 GHz.</p> <p>UK5.50 MoD for the Radiolocation service.</p>
<p>95 – 100 GHz</p> <p>MOBILE 5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION- SATELLITE RADIOASTRONOMY Radiolocation</p> <p>5.149, 5.554 UK1, 10, 148</p>	<p>UK148 Used for multiple line and continuum observations between 97·88-98·08 GHz.</p>
<p>100 – 102 GHz</p> <p>EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE-RESEARCH (passive)</p> <p>5.340, 5.341 UK1, 10</p>	

Region 1	Region 2	Region 3
86 – 92 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340		
92 – 94 GHz  FIXED 5.338A MOBILE RADIO ASTRONOMY RADIOLOCATION  5.149		
94 – 94.1 GHz  EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE-RESEARCH (active) Radio Astronomy  5.562 5.562A		
94.1 – 95 GHz  FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION  5.149		
95 – 100 GHz  FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE  5.149 5.554		
100 – 102 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 5.341		

Allocation to United Kingdom Services	Comments
102 – 105 GHz  FIXED FIXED-SATELLITE (space to Earth) RADIO ASTRONOMY  5.340, 5.341 UK1, 10	
105 – 109.5 GHz  FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B  5.149, 5.341 UK1, 10	
109.5 – 111.8 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 5.341 UK1, 10	
111.8 – 114.25 GHz  FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B  5.149 5.341 UK1, 10	
114.25 – 116 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 5.341 UK1, 10	
116 – 119.98 GHz  EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C  5.341 UK1	



Region 1	Region 2	Region 3
102 – 105 GHz  FIXED MOBILE RADIO ASTRONOMY  5.149 5.341		
105 – 109.5 GHz  FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B  5.149 5.341		
109.5 – 111.8 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 5.341		
111.8 – 114.25 GHz  FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B  5.149 5.341		
114.25 – 116 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 5.341		
116 – 119.98 GHz  EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive)  5.341		

Allocation to United Kingdom Services	Comments
<p>119-98 – 122.25 GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive)</p> <p>5.138 5.341 UK1, 6, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>122.25 – 123 GHz</p> <p>FIXED INTER-SATELLITE MOBILE 5.558 Amateur</p> <p>5.138 UK1, 6, 7, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>123 – 130 GHz</p> <p>FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) RADIONAVIGATION RADIONAVIGATION-SATELLITE Radio Astronomy</p> <p>5.149 5.554 UK1, 10, 11, EU1</p>	<p>EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.</p>
<p>130 – 134 GHz</p> <p>EARTH EXPLORATION-SATELLITE (active) 5.562E FIXED INTER-SATELLITE MOBILE 5.558 RADIO ASTRONOMY</p> <p>5.149 5.562A UK1, 10</p>	
<p>134 – 136 GHz</p> <p>AMATEUR UK7 AMATEUR-SATELLITE UK7 Radio Astronomy</p> <p>UK1, 10</p>	

Region 1	Region 2	Region 3
119-98 – 122-25 GHz  EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive)  5.138 5.341		
122-25 – 123 GHz  FIXED INTER-SATELLITE MOBILE 5.558 Amateur  5.138		
123 – 130 GHz  FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) RADIONAVIGATION RADIONAVIGATION-SATELLITE Radio Astronomy 5.562D  5.149 5.554		
130 – 134 GHz  EARTH EXPLORATION-SATELLITE (active) 5.562E FIXED INTER-SATELLITE MOBILE 5.558 RADIO ASTRONOMY  5.149 5.562A		
134 – 136 GHz  AMATEUR AMATEUR-SATELLITE Radio Astronomy		

Allocation to United Kingdom Services	Comments
136 – 141 GHz  RADIO ASTRONOMY RADIOLOCATION Amateur UK7 Amateur-satellite UK7  5.149 UK1, 10	
141.0 – 148.5GHz  FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION  5.149 UK1, 10	
148.5 – 151.5 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 UK1, 10	
151.5 – 155.5 GHz  FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION  5.149 UK1, 10	
155.5 – 158.5 GHz  EARTH EXPLORATION-SATELLITE (passive) 5.562F FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B  5.149 5.562G UK1, 10	

Region 1	Region 2	Region 3
136 – 141 GHz  RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite  5.149		
141 – 148.5 GHz  FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION  5.149		
148.5 – 151.5 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340		
151.5 – 155.5 GHz  FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION  5.149		
155.5 – 158.5 GHz  EARTH EXPLORATION-SATELLITE (passive) 5.562F FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B  5.149 5.562F 5.562G		

Allocation to United Kingdom Services	Comments
158.5 – 164 GHz  FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth)  UK1	
164 – 167 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 UK1, 10	
167 – 174.5 GHz  FIXED FIXED-SATELLITE (space-to-Earth) INTER-SATELLITE MOBILE 5.558  5.149 UK1	
174.5 – 174.8 GHz  FIXED INTER-SATELLITE MOBILE 5.558  UK1	
174.8 – 182 GHz  EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)  UK1	
182 – 185 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 UK1, 10	

Region 1	Region 2	Region 3
158.5 – 164 GHz  FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth)		
164 – 167 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340		
167 – 174.5 GHz  FIXED FIXED-SATELLITE (space-to-Earth) INTER-SATELLITE MOBILE 5.558  5.149 5.562D		
174.5 – 174.8 GHz  FIXED INTER-SATELLITE MOBILE 5.558		
174.8 – 182 GHz  EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)		
182 – 185 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340		

Allocation to United Kingdom Services	Comments
185 – 190 GHz  EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)  UK1	
190 – 191.8 GHz  EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)  5.340 UK1	
191.8 – 200 GHz  FIXED INTER-SATELLITE MOBILE 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE  5.149 5.341 5.554 UK1	
200 – 202 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 5.341 5.563A UK1, 10	
202 – 209 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 5.341 5.563A UK1, 10	



Region 1	Region 2	Region 3
185 – 190 GHz  EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)		
190 – 191.8 GHz  EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)  5.340		
191.8 – 200 GHz  FIXED INTER-SATELLITE MOBILE 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE  5.149 5.341 5.554		
200 – 202 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 5.341 5.563A		
202 – 209 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 5.341 5.563A		

Allocation to United Kingdom Services	Comments
209 – 217 GHz  FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY  5.149 5.341 UK1, 10	
217 – 226 GHz  FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B  5.149 5.341 UK1, 10	
226 – 231.5 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 UK1, 10	
231.5 – 232 GHz  FIXED MOBILE Radiolocation  UK1	
232 – 235 GHz  FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Radiolocation  UK1	
235 – 238 GHz  EARTH EXPLORATION-SATELLITE (passive) FIXED-SATELLITE (space-to-Earth) SPACE RESEARCH (passive)  5.563A 5.563B UK1	

Region 1	Region 2	Region 3
209 – 217 GHz  FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY  5.149 5.341		
217 – 226 GHz  FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B  5.149 5.341		
226 – 231.5 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340		
231.5 – 232 GHz  FIXED MOBILE Radiolocation		
232 – 235 GHz  FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Radiolocation		
235 – 238 GHz  EARTH EXPLORATION-SATELLITE (passive) FIXED-SATELLITE (space-to-Earth) SPACE RESEARCH (passive)  5.563A 5.563B		

Allocation to United Kingdom Services	Comments
238 – 240 GHz  FIXED FIXED-SATELLITE (space-to-Earth) MOBILE RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE  UK1	
240 – 241 GHz  FIXED MOBILE RADIOLOCATION  UK1	
241 – 248 GHz  RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite  5.138 5.149 UK1, 6, 10, 11, EU1  UK7 UK7	EU1 Commission Decisions 2006/771/EC, 2008/432/EC, 2009/381/EC, 2010/368/EU and 2011/829/EU (harmonised use of spectrum for short range devices (SRDs)) applies.
248 – 250 GHz  AMATEUR AMATEUR-SATELLITE Radio Astronomy  5.149 UK1, 10  UK7 UK7	
250 – 252 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 5.563A UK1, 10	

Region 1	Region 2	Region 3
238 – 240 GHz  FIXED FIXED-SATELLITE (space-to-Earth) MOBILE RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE		
240 – 241 GHz  FIXED MOBILE RADIOLOCATION		
241 – 248 GHz  RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite  5.138 5.149		
248 – 250 GHz  AMATEUR AMATEUR-SATELLITE Radio Astronomy  5.149		
250 – 252 GHz  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  5.340 5.563A		

Allocation to United Kingdom Services	Comments
<p>252 – 265 GHz</p> <p>FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY RADIONAVIGATION RADIONAVIGATION-SATELLITE</p> <p>5.149 5.554 UK1, 10</p>	
<p>265 – 275 GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY</p> <p>5.149 5.563A UK1, 10</p>	
<p>275 – 3000 GHz</p>	<p>Bands above 275·0 GHz Not allocated within the United Kingdom. Until there is a specific need to consider UK allocations above 275·0 GHz, the International Table will apply.</p>

Region 1	Region 2	Region 3
252 – 265 GHz  FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY RADIONAVIGATION RADIONAVIGATION-SATELLITE  5.149 5.554		
265 – 275 GHz  FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY  5.149 5.563A		
275 – 3000 GHz  (Not allocated) 5.565		

## FREQUENCY BANDS DESIGNATED FOR INDUSTRIAL, SCIENTIFIC AND MEDICAL USE

### Footnote UK6

1. In the United Kingdom the use of industrial, scientific and medical (ISM)<sup>1</sup> apparatus is allowed provided it does not contravene the provisions of the Wireless Telegraphy Act 2006.
2. In pursuance of these provisions, regulations governing the control of interference from ISM apparatus, which include the limits of field strength and terminal voltage applicable to particular frequency bands are contained in –

The Wireless Telegraphy (Control of interference from Electro-Medical Apparatus Regulations 1963

Statutory instrument 1963  
No. 1895

and

The Wireless Telegraphy (Control of Interference from Radio Frequency Heating Apparatus) Regulations 1971

Statutory Instrument 1971  
No. 1675

3. Frequency bands designated for ISM applications and therefore subject to control legislation in the United Kingdom are listed below.

Frequency Band	Conditions of Use	Remarks
6 765-6 795 kHz *	5.138 applies. Radiocommunication services must accept harmful interference from ISM.	WT (Control of Interference from Electro-Medical Apparatus) Regulations 1963 and WT (Control of Interference from RF Heating Apparatus) Regulations 1971 also apply.
13 553-13 567 kHz *	5.150 applies. Radiocommunication services must accept harmful interference from ISM.	As for 6 765-6 795 kHz above.
26 957-27 283 kHz *	5.150 applies. Radiocommunication services must accept harmful interference from ISM.	As for 6 765-6 795 kHz above.
40-66 – 40-70 MHz	5.150 applies. Radiocommunication services must accept harmful interference from ISM	
83-996-84-004 MHz 167-992-168-008 MHz 886-906 MHz	Radiocommunication services must accept harmful interference from ISM apparatus operating in accordance with the WT (Control of Interference from RF Heating Apparatus) Regulations 1971.	The WT (Control of Interference from RF Heating Apparatus) Regulations 1971 specify the limits of levels of radiation permitted outside the ISM bands.

<sup>1</sup> See Section I of Article 1 in the Radio Regulations for the definition of “ISM applications”



Frequency Band	Conditions of Use	Remarks
433·05-434·79 MHz *	5.138 applies. Radiocommunication services must accept harmful interference from ISM.	
2 400-2 500 MHz *	5.150 applies. Radiocommunication services must accept harmful interference from ISM.	
5 725-5 875 MHz *	5.150 applies. Radiocommunication services must accept harmful interference from ISM.	
24·0-24·25 GHz *	5.150 applies. Radiocommunication services must accept harmful interference from ISM.	
61·0-61·5 GHz *	5.138 applies. Radiocommunication services must accept harmful interference from ISM.	
122-123 GHz *	5.138 applies. Radiocommunication services must accept harmful interference from ISM.	
244-246 GHz *	5.138 applies. Radiocommunication services must accept harmful interference from ISM.	

4. ISM equipment operating in the bands annotated with an asterisk above are subject to the provisions of Article 15.13 of the Radio Regulations according to which, administrations shall take all practicable and necessary steps to ensure that radiation from ISM is minimal and that, outside the band designated for use by this equipment, it is at a level that does not cause harmful interference to radiocommunications services and, in particular, to a radionavigation or any other safety service operating in accordance with the Radio Regulations.

## SHORT RANGE DEVICES.

### Footnote UK11

This Annex details the bands used for Short Range Devices (SRDs). These bands are identified in the main table by footnote UK11. For detailed information on the regulations and technical usage please refer to the relevant UK Interface Requirement (IR). This can be found at –

[http://www.ofcom.org.uk/radiocomms/ifi/tech/interface\\_req/IR2030final.pdf](http://www.ofcom.org.uk/radiocomms/ifi/tech/interface_req/IR2030final.pdf)

This Annex has three sub-sections:

- Table 1 **Licence exempt use.** This Table lists frequencies or frequency bands for which agreement has been reached for SRDs to operate on a licence-exempt basis. These are either in accordance with a European Commission Harmonisation Decision, CEPT/ERC Recommendation 70-03 or where this has been agreed nationally and may not be available elsewhere within the CEPT. **Note the UK Interface Requirements takes precedence if there are any differences between the IR or the ECC Recommendation or Decision.** Many of these bands are also contained in the Technical Annex to the EC SRD Decision –2011/829/EU– with which the UK complies.
- Table 2 **Ultra Wide-band licence-exempt use.** These tables lists the permitted maximum mean and peak e.i.r.p. densities for frequency bands for which the use of UWB equipment is permitted as set out in European Commission Decisions 2007/131/EC and 2009/343/EC. These have been implemented into UK law via SI 2009/2517 and SI 2010/2761.
- Table 3 **National Licensed.** This Table lists frequencies or frequency bands for which agreement has been reached for SRDs to operate on a licensed basis.

In most cases, SRDs share spectrum with other users that generally operate at much higher powers. It should be noted that SRDs are not able to claim protection from any other service operating in the same frequency band.

When selecting parameters for new SRDs, which may have inherent safety of human life implications, manufacturers and users should pay particular attention to the potential for interference from other systems operating in the same or adjacent bands.

**ANNEX B - Table 1****Licence exempt Short Range Devices.**

Frequency band	Transmit power / Power density	Harmonisation Status
<b>1. Non-specific short-range devices</b>		
6765 - 6795 kHz	42 dB $\mu$ A/m at 10 m	EC Decision 2011/829/EU
13.553 - 13.567 MHz	42 dB $\mu$ A/m at 10 m	EC Decision 2011/829/EU
26.957 - 27.283 MHz	10 mW e.r.p. 42 dB $\mu$ A/m at 10 m	EC Decision 2011/829/EU
40.66 - 40.70 MHz	10 mW e.r.p.	EC Decision 2011/829/EU
49.82 - 49.98 MHz	10 mW e.r.p.	UK only
138.20 – 138.45 MHz	10 mW e.r.p.	ERC Rec 70-03
173.20 - 173.35 MHz	1 mW e.r.p.	UK only
173.5875, 173.6 MHz	10 mW e.r.p.	UK only
433.05 - 434.79 MHz	10 mW e.r.p.	EC Decision 2011/829/EU
433.05 - 434.79 MHz	1 mW e.r.p.	EC Decision 2011/829/EU
434.04 - 434.79 MHz	10 mW e.r.p.	EC Decision 2011/829/EU
863.0 – 865 MHz	25 mW e.r.p.	EC Decision 2011/829/EU
865 – 868 MHz	25 mW e.r.p.	EC Decision 2011/829/EU
868 – 869.7 MHz	25 mW e.r.p.	ERC Rec 70-03
868.0 - 868.6 MHz	25 mW e.r.p.	EC Decision 2011/829/EU
868.7 - 869.2 MHz	25 mW e.r.p.	EC Decision 2011/829/EU
869.30 - 869.40 MHz	10 mW e.r.p.	UK only
869.40 - 869.65 MHz	500 mW e.r.p.	EC Decision 2011/829/EU
869.7 – 870 MHz	25 mW e.r.p.	EC Decision 2011/829/EU
869.70 - 870.00 MHz	5 mW e.r.p.	EC Decision 2011/829/EU
2400 - 2483.5 MHz	10 mW e.i.r.p.	EC Decision 2011/829/EU
5725 - 5875 MHz	25 mW e.i.r.p.	EC Decision 2011/829/EU
24.150 - 24.250 GHz	100 mW e.i.r.p.	EC Decision 2011/829/EU
61.0 - 61.5 GHz	100 mW e.i.r.p.	EC Decision 2011/829/EU
122 – 123 GHz	100 mW e.i.r.p.	EC Decision 2011/829/EU
244 - 246 GHz	100 mW e.i.r.p.	EC Decision 2011/829/EU
<b>2. Industrial/Commercial Telemetry and Tele-command</b>		
169.4 – 169.475 MHz	500mW e.r.p.	EC Decision 2005/928/EC
173.2 - 173.35 MHz	10 mW e.r.p.	UK only
458.5 - 458.95 MHz	500 mW e.r.p.	UK only
2445 - 2455 MHz	100 mW e.i.r.p.	UK only
<b>3. Databuoy Telemetry</b>		
34.5 - 34.995 MHz	250 mW e.r.p.	UK only
35.225 - 35.5 MHz	250 mW e.r.p.	UK only
<b>4. Active Medical Implants</b>		
9 – 315 kHz	30 dB $\mu$ A/m at 10m	EC Decision 2011/829/EU
300 kHz - 30 MHz	9 dB $\mu$ A/m at 10 m	UK only
30 - 37.5 MHz	1 mW e.r.p.	EC Decision 2011/829/EU
401 – 402 MHz	25 $\mu$ W e.r.p.	EC Decision 2011/829/EU

Frequency band	Transmit power / Power density	Harmonisation Status
402 – 405 MHz	25 $\mu$ W e.i.r.p.	EC Decision 2011/829/EU
405 – 406 MHz	25 $\mu$ W e.i.r.p.	EC Decision 2011/829/EU
<b>5. Animal Implantable Devices</b>		
315 - 600 kHz	-5 dB $\mu$ A/m at 10m	EC Decision 2011/829/EU
12.5 – 20.0 MHz	-7 dB $\mu$ A/m at 10m in a bandwidth of 10 kHz	EC Decision 2011/829/EU
<b>6. Medical and Biological Applications</b>		
173.7 – 174 MHz	10 mW e.i.r.p.	UK only
458.9625 – 459.1000 MHz	10 mW e.i.r.p.	UK only
458.9625 – 459.1000 MHz	500 mW e.i.r.p.	UK only
<b>7. Wideband Data Transmission Systems</b>		
2400 MHz - 2483.5 MHz	100 mW e.i.r.p. In addition, equipment must only emit emissions of 100 mW/100 kHz e.i.r.p. density when frequency hopping modulation is used, or 10 mW/MHz e.i.r.p. density when other types of modulation are used	EC Decision 2011/829/EU
57 – 66 GHz	40 dBm e.i.r.p. and 13 dBm/MHz e.i.r.p. density	EC Decision 2011/829/EU
<b>8. Wireless Access Systems(WAS)</b>		
5150 - 5350 MHz	Maximum mean e.i.r.p. of 200 mW and Maximum mean e.i.r.p. density of 10mW/MHz in any 1 MHz band	EC Decision 2007/90/EC
5470 - 5725 MHz	Maximum mean e.i.r.p. of 1W and Maximum mean e.i.r.p. density of 50mW/MHz in any 1 MHz band	EC Decision 2007/90/EC
<b>9. Short Range Indoor Data Links</b>		
2445 – 2455 MHz	100 mW e.i.r.p.	UK only
5725 – 5875 MHz	25 mW e.i.r.p.	UK only
10.675 – 10.699 GHz	1 W e.i.r.p.	UK only (no new deployments after 2014)
<b>10. Railway Applications</b>		
984 – 7484 kHz	9 dB $\mu$ A/m	ERC Rec 70-03
516 – 8516 kHz	7 dB $\mu$ A/m at 10 m	UK only
7.3 – 23 MHz	-7 dBuA/m at 10 m	ERC Rec 70-03
27.090 – 27.100 MHz	42 dB $\mu$ A/m at 10 m	ERC Rec 70-03
	5 dB $\mu$ A/m at 10 m	ERC Rec 70-03
	- 1 dB $\mu$ A/m at 10 m	ERC Rec 70-03
2446 – 2454 MHz	500 mW e.i.r.p.	ERC Rec 70-03
<b>11. Devices for locating victims in distress or at risk</b>		
457 kHz	7 dB $\mu$ A/m at 10 m	ERC Rec 70-03
<b>12. Radio determination applications</b>		
2400 – 2483.5 MHz	25 mW e.i.r.p.	EC Decision 2011/829/EU
2445 - 2455 MHz	100 mW e.i.r.p.	UK only
5725 – 5875 MHz	25 mW e.i.r.p.	UK only
10.577 - 10.597 GHz	1 W e.i.r.p.	ERC Rec 70-03
10.675 - 10.699 GHz	1 W e.i.r.p.	UK only (no new deployments after 2014)
13.4 - 14.0 GHz	500 mW e.i.r.p.	ERC Rec 70-03

Frequency band	Transmit power / Power density	Harmonisation Status
17.1 – 17.3 GHz	26 dBm e.i.r.p.	EC Decision 2011/829/EU
24.050 – 24.150 GHz	100 mW e.i.r.p.	ERC Rec 70-03
24.150 - 24.250 GHz	2 W e.i.r.p.	UK only
24.250 - 24.350 GHz	2 W e.i.r.p.	UK only
<b>13. Radio Frequency Identification</b>		
13.553 - 13.567 MHz	60 dB $\mu$ A/m at 10 m	EC Decision 2011/829/EU
865 – 865.6 MHz	100 mW e.r.p.	EC Decision 2006/804/EC
865.6 – 867.6 MHz	2W e.r.p.	EC Decision 2006/804/EC
867.6 – 868 MHz	500 mW e.r.p.	EC Decision 2006/804/EC
2446 – 2454 MHz	500 mW e.i.r.p.	EC Decision 2011/829/EU
2446 – 2454 MHz	4 W e.i.r.p.	ERC Rec 70-03
<b>14. Road Transport and Traffic Telematics</b>		
5795 - 5805 MHz	$\leq 2$ W e.i.r.p.	ERC Rec 70-03
5805 - 5815 MHz	$\leq 2$ W e.i.r.p.	ERC Rec 70-03
24.050 - 24.075 GHz	100 mW e.i.r.p.	EC Decision 2011/829/EU
24.075 - 24.150 GHz	0.1mW e.i.r.p.	EC Decision 2011/829/EU
24.075 - 24.150 GHz	100 mW e.i.r.p.	EC Decision 2011/829/EU
24.150 - 24.250 GHz	100mW e.i.r.p	EC Decision 2011/829/EU
21.65 - 26.65 GHz	-61.3 dBm/MHz 21.65-22 GHz e.i.r.p. -41.3 dBm/MHz 22-26.65 GHz e.i.r.p. Exculsion zones apply	EC Decision 2005/50/EC
63 - 64 GHz	40 dBm e.i.r.p.	EC Decision 2011/829/EU
76 - 77 GHz	55 dBm e.i.r.p.	EC Decision 2011/829/EU
77 - 81 GHz	-3 dBm/MHz, 55dBm e.i.r.p.	EC Decision 2004/545/EC
<b>15. Inductive Applications</b>		
9 – 59.75 kHz	72 dB $\mu$ A/m at 10 m	EC Decision 2011/829/EU
59.75 – 60.25 kHz	48 dB $\mu$ A/m at 10 m	EC Decision 2011/829/EU
60.25 – 90 kHz	72 dB $\mu$ A/m at 10 m	EC Decision 2011/829/EU
90 - 119 kHz	48 dB $\mu$ A/m at 10 m	EC Decision 2011/829/EU
119 - 127 kHz	66 dB $\mu$ A/m at 10 m	EC Decision 2011/829/EU
127 - 135 kHz	66 dB $\mu$ A/m at 10 m	EC Decision 2011/829/EU
135 - 148.5 kHz	48 dB $\mu$ A/m at 10 m	EC Decision 2011/829/EU
148.5 - 185 kHz	48 dB $\mu$ A/m at 10 m	UK only
148.5 - 5000 kHz	-15 dB $\mu$ A/m at 10 m in any bandwidth of 10 kHz. Total field strength -5 dB $\mu$ A/m at 10 m for systems operating at bandwidths larger than 10 kHz	EC Decision 2011/829/EU
148.5 – 1600 kHz	-5 dB $\mu$ A/m at 10 m	UK only
240 - 315 kHz	24 dB $\mu$ A/m at 10 m	UK only
400 - 600 kHz	-5 dB $\mu$ A/m at 10 m	EC Decision 2011/829/EU
1600 kHz - 2 MHz	-15 dB $\mu$ A/m at 10 m in any bandwidth of 10 kHz. Total field strength -5 dB $\mu$ A/m at 10 m for systems operating at bandwidths larger than 10 kHz.	EC Decision 2011/829/EU
2 - 3.155 MHz	9 dB $\mu$ A/m at 10 m	UK only
3.155 - 3.400 MHz	13.5dB $\mu$ A/m at 10 m	EC Decision 2011/829/EU
3.400 – 5.000 MHz	9 dB $\mu$ A/m at 10 m	UK only

Frequency band	Transmit power / Power density	Harmonisation Status
5000 – 30000 kHz	-20 dBμA/m at 10 m in any bandwidth of 10 kHz. Total field strength -5 dBμA/m at 10 m for systems operating at bandwidths larger than 10 kHz	EC Decision 2011/829/EU
5.000 - 6.765 MHz	9 dBμA/m at 10 m	UK only
6.765 - 6.795 MHz	42 dBμA/m at 10 m	EC Decision 2011/829/EU
6.795 – 7.400 MHz	9 dBμA/m at 10 m	UK only
7.400 – 8.800 MHz	9 dBμA/m at 10 m	EC Decision 2011/829/EU
8.800 – 10.200 MHz	9 dBμA/m at 10 m	UK only
10.200 – 11.000 MHz	9 dBμA/m at 10 m	EC Decision 2011/829/EU
11.000 – 13.533 MHz	9 dBμA/m at 10 m	UK only
13.533 - 13.553 MHz	21.5 dBμA/m at 10 m	UK only
13.553 - 13.567 MHz	42 dBμA/m at 10 m	EC Decision 2011/829/EU
13.567 - 26.957 MHz	9 dBμA/m at 10 m	UK only
26.957 - 27.283 MHz	42 dBμA/m at 10 m	EC Decision 2011/829/EU
27.283 - 30 MHz	9 dBμA/m at 10 m	UK only
<b>16. Metal Detectors</b>		
9 - 148.5 kHz	70 dBμA/m at 6 m	UK only
<b>17. Alarms</b>		
868.60 – 868.70 MHz	10 mW e.r.p.	EC Decision 2011/829/EU
869.25 – 869.30 MHz	10 mW e.r.p.	EC Decision 2011/829/EU
869.3 – 869.4 MHz	10 mW e.r.p.	EC Decision 2011/829/EU
869.65 – 869.70 MHz	25 mW e.r.p.	EC Decision 2011/829/EU
<i>Social Alarms</i>		
27.450MHz	500μW e.r.p.	UK only
34.925 MHz	500μW e.r.p.	UK only
34.950 MHz	500μW e.r.p.	UK only
34.975 MHz	500μW e.r.p.	UK only
169.4750 – 169.4875 MHz	500 mW e.r.p.	EC Decision 2005/928/EC
169.5875 – 169.600 MHz	500 mW e.r.p.	EC Decision 2005/928/EC
869.2 - 869.25 MHz	10 mW e.r.p.	EC Decision 2011/829/EU
<b>18. Vehicle Paging Alarms</b>		
47.4 MHz	100 mW e.r.p.	UK only
458.90 MHz	100 mW e.r.p.	UK only
<b>19. General Alarms Associated with Marine Applications Including Fixed Shore Installations</b>		
161.275 MHz	10 mW e.r.p.	UK only
<b>20. Mobile, Transportable and Lone Worker Safety Alarms</b>		
173.1875 MHz	10 mW e.r.p.	UK only
458.8375 MHz	100 mW e.r.p.	UK only
<b>21. Fixed Alarms</b>		
173.225 MHz	10 mW e.r.p.	UK only
173.225 MHz	10 mW e.r.p.	UK only
458.825 MHz	100 mW e.r.p.	UK only
<b>22. Model Control</b>		

Frequency band	Transmit power / Power density	Harmonisation Status
26.96 - 27.28 MHz	100 mW	UK only
34.945 - 35.305 MHz	100 mW	ERC Rec 70-03
40.66 - 41.00 MHz	100 mW	ERC Rec 70-03
433.05 - 434.79 MHz	1 mW	UK only
434.04 – 434.79 MHz	10 mW	UK only
458.5 - 459.5 MHz	100 mW	UK only
<b>23. Radio Microphones</b>		
173.775 - 175.075 MHz	10 mW e.r.p.	UK only
173.7 - 175.1 MHz	10 mW e.r.p.	UK only
863 - 865 MHz	10 mW e.r.p.	ERC Rec 70-03
<b>24. Assistive Listening Devices</b>		
169.4000 - 169.4750 MHz	500 mW e.r.p.	EC Decision 2005/928/EC
169.4875 - 169.5875 MHz	500 mW e.r.p.	EC Decision 2005/928/EC
173.325 - 175.075 MHz	2 mW e.r.p.	UK only
<b>25. Wireless Audio Applications and Low power FM transmitters</b>		
36.61 - 36.79 MHz 37.01 - 37.19 MHz	10 $\mu$ W e.r.p.	UK only
87.5 – 108 MHz	50 nW e.r.p.	EC Decision 2011/829/EU
863 - 865 MHz	10 mW e.r.p.	EC Decision 2011/829/EU
864.8 - 865.0 MHz	10 mW e.r.p.	ERC Rec 70-03
2400 – 2483.5 MHz	10 mW e.i.r.p.	UK only
<b>26. Wireless Video Cameras - Non Broadcasting</b>		
1394 MHz	500 mW e.i.r.p.	UK only
2400 – 2483.5 MHz	10 mW e.i.r.p.	UK only
5725 – 5875 MHz	25 mW e.i.r.p.	UK only
<b>27. Video Distribution for Private Use</b>		
1394 MHz	10 mW e.i.r.p.	UK only
<b>28. Radar Level Gauges</b>		
5150 MHz - 7100 MHz	$\leq 25$ mW Peak $\leq 0.1$ mW Average	UK only
8500 MHz - 10.600 GHz	$\leq 25$ mW Peak $\leq 0.1$ mW Average	UK only
10.700 GHz - 10.850 GHz	$\leq 25$ mW Peak $\leq 0.1$ mW Average	UK only
24.3 - 27.7 GHz	$\leq 100$ mW Peak $\leq 0.36$ mW Average	UK only
<b>29. Tank Level Probing Radar (TLPR)</b>		
4.5 – 7.0 GHz	24 dBm e.i.r.p. Equipment must be within a closed tank, whose purpose is to contain a substance, and which is made of metal or reinforced concrete or any other material with attenuation characteristics that are at least as strong as those of either metal or reinforced concrete	EC Decision 2011/829/EU

Frequency band	Transmit power / Power density	Harmonisation Status
8.5 – 10.6 GHz	30 dBm e.i.r.p. Equipment must be within a closed tank, whose purpose is to contain a substance, and which is made of metal or reinforced concrete or any other material with attenuation characteristics that are at least as strong as those of either metal or reinforced concrete	EC Decision 2011/829/EU
24.05 – 27.0 GHz	43 dBm e.i.r.p. Equipment must be within a closed tank, whose purpose is to contain a substance, and which is made of metal or reinforced concrete or any other material with attenuation characteristics that are at least as strong as those of either metal or reinforced concrete.	EC Decision 2011/829/EU
57.0 – 64.0 GHz	43 dBm e.i.r.p. Equipment must be within a closed tank, whose purpose is to contain a substance, and which is made of metal or reinforced concrete or any other material with attenuation characteristics that are at least as strong as those of either metal or reinforced concrete.	EC Decision 2011/829/EU
75.0 – 85.0 GHz	43 dBm e.i.r.p. Equipment must be within a closed tank, whose purpose is to contain a substance, and which is made of metal or reinforced concrete or any other material with attenuation characteristics that are at least as strong as those of either metal or reinforced concrete	EC Decision 2011/829/EU
<b>30. Automotive Short Range Radar</b>		
21.65 – 26.65 GHz	22.00 - 26.65 GHz have a mean power density no greater than -41.3 dBm/MHz eirp and a peak power density no greater than 0 dBm in any 50 MHz. 21.65 - 22.00 gigahertz have a mean power density no greater than -61.3 dBm/MHz eirp and a peak power density no greater than 0 dBm in any 50 MHz.	EC Decisions 2005/50/EC and 2011/485/EU
77.0 – 81.0 GHz	-3 dBm/MHz eirp associated with a peak limit of 55 dBm eirp; and -9 dBm/MHz eirp outside the vehicle in which it is established or installed	EC Decision 2004/545/EC



## **ANNEX B - Table 2**

### **Licence exempt Ultra Wide-band (UWB) devices.**

The information below is taken from European Commission Decisions 2007/131/EC and 2009/343/EC. These have been implemented into UK law via SI 2009/2517 and SI 2010/2761.

#### **Generic UWB usage**

**Table 2.1 Maximum e.i.r.p. densities in the absence of appropriate mitigation techniques**

<b>Frequency range (GHz)</b>	<b>Maximum mean e.i.r.p. density (dBm/MHz)</b>	<b>Maximum peak e.i.r.p. density (dBm/50 MHz)</b>
Below 1.6	– 90.0	– 50.0
1.6 to 3.4	– 85.0	– 45.0
3.4 to 3.8	– 85.0	– 45.0
3.8 to 4.2	– 70.0	– 30.0
4.2 to 4.8	– 70.0	– 30.0
4.8 to 6.0	– 70.0	– 30.0
6.0 to 8.5	– 41.3	– 0.0
8.5 to 10.6	– 65.0	– 25.0
Above 10.6	– 85.0	– 45.0

#### **Operation of equipment using UWB technology in automotive and railway vehicles**

**Table 1.2 Maximum e.i.r.p. densities for operation of ultra-wideband technology in automotive and railway vehicles**

<b>Frequency range (GHz)</b>	<b>Maximum mean e.i.r.p. density (dBm/MHz)</b>
4.2 to 4.8	-70.0
6.0 to 8.5	-41.3
	provided that techniques to mitigate aggregate interference are applied that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. These require a transmitter power control (TPC) range of at least 12 dB.
	-53.3 (otherwise)

#### **Specific UWB usage**

Signals that are radiated into the air that do not exceed the limits in the table below shall be allowed.

**Table 2.3 Building material analysis (BMA)**

<b>Frequency range (MHz)</b>	<b>Maximum mean e.i.r.p. density (dBm/MHz)</b>	<b>Maximum peak e.i.r.p. density (dBm/50 MHz)</b>
Below 1730	– 85	– 45
1730 to 2200	– 65	– 25
2200 to 2500	– 50	– 10
2500 to 2690	– 65	– 25
2690 to 2700	– 55	– 15
2700 to 3400	– 82	– 42
3400 to 4800	– 50	– 10
4800 to 5000	– 55	– 15
5000 to 8000	– 50	– 10
8000 to 8500	– 70	– 30
Above 8500	– 85	– 45

**ANNEX B - Table 3****Short Range Devices Not Exempt From Licensing.**

<b>1 Radar Level Gauges.</b>	
Radar Level Gauges in the band below are not exempt from licensing.	
<b>Frequency Band</b>	<b>Power</b>
10·6-10·68 GHz.	25 mW peak. 0·1 mW average.

<b>2 Ground Probing Radars.</b>	
<p>The use of 150–4000 MHz by Ground Probing Radars employing wide band pulse techniques is permitted on a non-interference basis. This is subject to the following conditions which were set out in <a href="http://licensing.ofcom.org.uk/radiocommunication-licences/licensed-short-range/ground-probing-radars/-">http://licensing.ofcom.org.uk/radiocommunication-licences/licensed-short-range/ground-probing-radars/-</a></p> <ol style="list-style-type: none"> <li>1. That the total radiated power does not exceed 0·25 mW and that the radiated power per spectral line does not exceed 100 nW.</li> <li>2. That the radiation measured outside the antenna shield does not exceed 10 nW.</li> <li>3. That a specification be written to cover these devices.</li> <li>4. That a code of practice be written to cover the use of these types of equipment.</li> <li>5. That a label should be prominently attached to the equipment warning that use could be stopped on request by a duly authorised person and that operators must be instructed not to operate the equipment in close proximity to other receiving equipment.</li> </ol> <p>In addition, the device must be fitted with an anti-tilt mechanism.</p> <p>These devices have been proposed for licence exemption as follows –</p>	
<b>Frequency Range:</b>	<b>Radiated power eirp</b>
150 MHz to 4 GHz	<p>Total radiated power: ≤250 microwatts</p> <p>Radiated spectral line power: ≤100 nanowatts</p> <p>Maximum leakage power from antenna shield: ≤10 nanowatts.</p>

<b>3. Radio Microphones:</b> A licence is required to operate in these bands. These are administered by the Joint Frequency Management Group on behalf of Ofcom. Use is in accordance with Annex 10 of CEPT/ECC Recommendation 70-03.		
Code	Frequencies or Frequency Band	Radiated level.
RM1	174-216 MHz (use on a tuning range basis)	10 mW 50 mW (body worn units)
RM2	470-790 MHz (use on a tuning range basis)	10 mW 50 mW (body worn units)
RM3	1785-1800 MHz – note.	10 mW 50 mW (body worn units)
<b>Note:</b> 1785-1800 MHz band auctioned in Northern Ireland.		

## FREQUENCY SHARING ARRANGEMENTS BETWEEN CIVIL LAND MOBILE AND MILITARY SERVICES IN THE BAND 410-450 MHz

Footnote UK65

- 1 The sub-bands in which civil land mobile may share with military services are:
  - a. 425-429 MHz;
  - b. 431-432 MHz;
  - c. 440·0-443·5 MHz;
  - d. 445·5-449·5 MHz.

Sharing between civil digital services and military services in these bands is on the basis of individual channels agreed between Ofcom and the MoD.

2. Civil land mobile use of the sub-bands in Section 1 will be limited geographically to the following areas within a radius of:
  - a. 56 km of London (Charing Cross).
  - b. 50 km of the centre of Warrington, Cheshire.
  - c. 40 km of the centre of Birmingham and Glasgow.
  - d. 32 km of the centres of Aberdeen, Bradford, Derby, Edinburgh, Halifax, Leeds, Leicester, Middlesbrough, Nottingham, Preston, Sheffield and Tyneside.
  - e. 10 km of Coventry (SP 330 790), Bristol (ST 600 740), Swansea (SS 650 950), Newport (ST 310 880) and Cardiff (ST 190 760).

Civil land mobile use will be permitted outside of these areas where agreed between Ofcom and the MoD on a case-by-case basis.

3. Civil land mobile use of the sub-band at paragraph 1b will be limited to an area within a radius of 56 km of Charing Cross, London, except for the following frequencies which may not be used:
  - a. 431·85 MHz and 431·9 MHz  $\pm$  6·25 kHz;
  - b. 431·5 MHz and 431·65 MHz  $\pm$  12·5 kHz.
4. The following frequencies may not be used in the areas described at paragraph 2d:
  - a. 447·7 MHz  $\pm$  6·25 kHz;
  - b. 447·75 MHz, 448·25 MHz, and 448·75 MHz all  $\pm$  12·5 kHz.
5. The following frequencies must not be used by the civil land mobile service at any of the areas described below:
  - a. 425·025 MHz within 32 km of Leicester and Worcester;
  - b. 443·5 MHz may not be used within 32 km of any of the designated areas in 2d above.

6. The Ministry of Defence undertakes not to introduce new services which will affect civil land mobile services operating within 410-429 MHz or those areas described at paragraphs 2a, 2b, 2c and 3 and will effect co-ordination of proposals for new military assignments which may affect civil land mobile services operating in those areas described in paragraph 2d.
7. Military services operating outside the areas described at paragraphs 2, 3 and 4 and on excluded frequencies inside the areas described at paragraph 2d and 3 will be protected from interference by civil land mobile services.
8. Nothing in the foregoing arrangements precludes consideration by the Ministry of Defence of civil assignments, on a case-by-case basis, on any other frequencies in the band 424-450 MHz.

## FREQUENCIES FOR RADIO ASTRONOMY AND LIST OF UK SITES

Footnote UK10

### 1. UK Radio Astronomy Sites.

Observatory	Location	Ordinance Survey National Grid Reference
Cambridge	Cambridge	TL 39400 54000
Chilbolton*	Stockbridge, Hants	SU 37900 38500
Darnhall	Cheshire	SJ 64275 62265
Defford	Worcestershire	SO 90200 44700
Jodrell Bank	Cheshire	SJ 79650 70950
Knockin	Shropshire	SJ 32855 21880
Pickmere	Tabley, Cheshire	SJ 70404 76945

\* Currently there is no protection afforded to the Chilbolton site.

### 2. Radio Astronomy Bands.

This annex splits the radio astronomy band allocations into two classifications according to whether the spectrum is available under the provisions of Recognised Spectrum Access (RSA).

#### 2.1 The following frequency bands are where RSA is available for sites at Jodrell Bank (JB), Cambridge (CA), Defford (DE), Darnhall (DA), Pickmere (PI) and Knockin (KN) and the list of Radio Astronomy sites covered under grant of RSA;

Frequency Band	Typical Applications	Radio Astronomy Sites Covered Under Grant of RSA
37.75 - 38.25 MHz	All sky survey at CLFST.	
80.5 - 82.5 MHz	Scintillation studies and mapping radio sources.	
150.05 - 152.00 MHz	MERLIN mapping of radio sources and by CLFST for all sky survey.	CA JB
606 – 614 MHz	Pulsar observations and VLBI measurements.	
1400 - 1427 MHz	Hydrogen line studies, pulsars observations and mapping radio sources.	CA DA DE JB KN PI
1610.6 - 1613.8 MHz	MERLIN and hydroxyl line studies.	CA DA DE JB KN PI
1660.0 - 1660.5 MHz	MERLIN and hydroxyl line studies.	CA DA DE JB KN PI
1660.5 - 1668.0 MHz	MERLIN and hydroxyl line studies.	CA DA DE JB KN PI
1668 - 1670 MHz	MERLIN and hydroxyl line studies.	JB CA DA DE KN PI
2690 - 2700 MHz	Mapping radio sources, pulsars, and possibly MERLIN observations.	CA DA DE JB KN PI
10.60 - 10.68 GHz	Cosmic background studies.	
10.68 - 10.70 GHz	Cosmic background studies.	CA DA JB KN PI DE
15.35 - 15.40 GHz	Mapping radio sources.	CA DA JB KN PI DE
22.00 - 22.21 GHz	MERLIN observations and water (H <sub>2</sub> O) line studies.	CA DA JB KN PI

Frequency Band	Typical Applications	Radio Astronomy Sites Covered Under Grant of RSA
22.21 - 22.50 GHz	MERLIN observations and water (H <sub>2</sub> O) line studies.	CA DA JB KN PI
22.81 - 22.86 GHz	Ammonia (NH <sub>3</sub> ) line studies.	JB CA
23.07 - 23.12 GHz	Ammonia (NH <sub>3</sub> ) line studies.	CA JB
23.6 - 24.0 GHz	MERLIN observations and ammonia (NH <sub>3</sub> ) line studies.	CA DA JB KN PI DE
31.3 - 31.5 GHz	Cosmic microwave studies.	CA JB DA KN PI DE
31.5 - 31.8 GHz		
42.5 - 43.5 GHz	Silicon monoxide (SiO) line studies and MERLIN observations.	CA
48.94 - 49.04 GHz	Carbon mono-sulphide (CS) line studies.	

**2.2 The following frequency bands are not covered under RSA regulations and previous arrangements continue to apply.**

### Category of Protection

- A. The full protection afforded a primary or exclusive radiocommunication allocation.
- B. Full protection within a stated limit will be provided for a named observatory. Bands previously within this category are now available under RSA.
- C. All practicable measures will be taken to protect the radio astronomy service from harmful interference when planning assignments within the band.
- D. No protection can be afforded to the radio astronomy service in this band.

### ALLOCATIONS TO RADIO ASTRONOMY OBSERVATORIES

Frequency Band	Status	Prot.	Observatory	Typical Applications
13360 - 13410 kHz	PRIMARY	D	-	Only likely to be used at sunspot minimum.
25550 - 25670 kHz	PRIMARY	D	-	Only likely to be used at sunspot minimum.
232 – 236 MHz	Footnote	D	Jodrell Bank	Pulsars
326.5 - 328.5 MHz	Footnote	D	Cambridge, Jodrell Bank	VLBI measurements, pulsars and Deuterium line studies.
406.1 – 410.0 MHz	PRIMARY Shared	C	Cambridge, Darnhall, Defford, Jodrell Bank, Knockin, Pickmere	MERLIN observations, pulsars and mapping radio sources.
962 - 970 MHz	Footnote	D	Jodrell Bank	Pulsars
1350 - 1380 MHz	Footnote	D	Cambridge, Darnhall, Defford, Jodrell Bank, Knockin, Pickmere	Red shifted hydrogen line studies and MERLIN.
1380 - 1400 MHz	Footnote	C	Cambridge, Darnhall, Defford, Jodrell Bank, Knockin, Pickmere	Noting 5.339 permits 1370-1400 MHz to be used on a secondary basis. Red shifted hydrogen line studies and MERLIN.
1718.8 - 1722.2 MHz	Footnote	D	Cambridge, Darnhall, Defford, Jodrell Bank, Knockin, Pickmere	Noting 5.385 permits this band to be used on a secondary basis. MERLIN observations and hydroxyl line studies.
2290 - 2300 MHz	Footnote	D	Jodrell Bank	VLBI measurements and pulsars.
2655 - 2670 MHz	Secondary	D	Jodrell Bank	VLBI measurements and pulsars.

Frequency Band	Status	Prot.	Observatory	Typical Applications
2670 - 2690 MHz	Secondary	D	Jodrell Bank	Mapping radio sources, pulsars.
4600 - 4825 MHz	Footnote	D	Cambridge, Darnhall, Defford Jodrell Bank, Knockin, Pickmere	Cosmic microwave studies and MERLIN measurements.
4825 - 4835 MHz	Footnote	D	Cambridge, Darnhall, Defford Knockin, Pickmere	Cosmic microwave studies and MERLIN measurements.
	Secondary Shared	C	Jodrell Bank	Formaldehyde (H <sub>2</sub> CO) line studies and MERLIN measurements.
4835 - 4950 MHz	Footnote	D	Cambridge, Darnhall, Defford Jodrell Bank, Knockin, Pickmere	Cosmic microwave studies and MERLIN measurements.
4950 - 4990 MHz	Secondary Shared	C	Cambridge, Darnhall, Defford Jodrell Bank. Knockin, Pickmere	Cosmic microwave studies.
4990 - 5000 MHz	PRIMARY Shared	C	Cambridge, Darnhall, Defford Jodrell Bank, Knockin, Pickmere	Mapping radio sources and pulsars.
6650·0 - 6675·2 MHz	Footnote	D	Cambridge, Darnhall, Defford Jodrell Bank, Knockin, Pickmere	Methanol (CH <sub>3</sub> OH) line studies and MERLIN.
8400 - 8500 MHz	Footnote	D	Cambridge, Jodrell Bank	VLBI measurements
14·47 - 14·50 GHz	Secondary	D	Cambridge, Jodrell Bank	Used for Formaldehyde (H <sub>2</sub> CO) line studies.
51·40 - 54·25 GHz	Footnote.	D	-	
58·2 - 59·0 GHz	Footnote	D	-	
64 - 65 GHz	Footnote	D	-	
76·0 - 77·5 GHz	PRIMARY		-	
77·5 – 79·0 GHz	Secondary		-	
79 - 86 GHz	PRIMARY		-	
86 - 92 GHz	PRIMARY	A	Cambridge	Spectral line studies.
92 - 94 GHz	PRIMARY		-	
94·0 - 94·1 GHz	Secondary		-	
94·10 – 116·25 GHz	PRIMARY		-	
123 - 130 GHz	Secondary		-	
130 - 134 GHz	PRIMARY		-	
134 - 136 GHz	Secondary		-	
136·0 - 148·5 GHz	PRIMARY		-	
148·5 - 151·5 GHz	PRIMARY		-	
151·0 - 158·5 GHz	PRIMARY		-	
164 - 167 GHz	PRIMARY		-	
182 - 185 GHz	PRIMARY		-	
200 - 217 GHz	PRIMARY		-	



Frequency Band	Status	Prot.	Observatory	Typical Applications
226·0 - 231·5 GHz	PRIMARY		-	
241 - 248 GHz	PRIMARY		-	
248 - 250 GHz	Secondary		-	
250 - 275 GHz	PRIMARY		-	

The following frequency bands in the range 275 - 1000 GHz are identified for use by administrations for passive service applications under RR footnote 5.565:

**Radio astronomy service:** 275 - 323 GHz, 327 - 371 GHz, 388 - 424 GHz, 426 - 442 GHz, 453 - 510 GHz, 623 - 711 GHz, 795 - 909 GHz and 926 - 945 GHz;

(1) **Earth exploration-satellite service (passive) and space research service (passive):** 275 - 286 GHz, 296 - 306 GHz, 313 - 356 GHz, 361 - 365 GHz, 369 - 392 GHz, 397 - 399 GHz, 409 - 411 GHz, 416 - 434 GHz, 439 - 467 GHz, 477 - 502 GHz, 523 - 527 GHz, 538 - 581 GHz, 611 - 630 GHz, 634 - 654 GHz, 657 - 692 GHz, 713 - 718 GHz, 729 - 733 GHz, 750 - 754 GHz, 771 - 776 GHz, 823 - 846 GHz, 850 - 854 GHz, 857 - 862 GHz, 866 - 882 GHz, 905 - 928 GHz, 951 - 956 GHz, 968 - 973 GHz and 985 - 990 GHz.

Note: The use of the range 275 - 1000 GHz by the passive services does not preclude use of this range by active services. Administrations wishing to make frequencies in the 275 - 1000 GHz range available for active service applications are urged to take all practicable steps to protect these passive services from harmful interference until the date when the Table of Frequency Allocations is established in the above-mentioned 275 - 1000 GHz frequency range.

All frequencies in the range 1000 -3000 GHz may be used by both active and passive services (WRC-12).

### 3. NOTES.

#### 3.1 CHILBOLTON OBSERVATORY.

Currently the following allocations are not subject to any protection other than any provided by the Radio Regulations, e.g. footnote no. 5.340.

MHz	GHz
150·05 – 152·00	10·68 - 10·70
406·1 – 410·0	22·21 - 22·50
1 400 - 1 427	22·81 - 22·86
1 610·6 - 1 613·8	23·07 - 23·12
1 660·5 - 1 670·0	23·6 - 24·0
1 718·8 - 1 722·2	31·3 - 31·5
2 690 - 2 700	
4 990 - 5 000	

#### 3.2 ABBREVIATIONS

CLFST      Cambridge Low Frequency Synthesis Telescope.  
MERLIN    Multi Element Radio Linked Interferometer Network.  
VLBI        Very Long Baseline Interferometry.

## FREQUENCIES FOR THE OPERATION OF SONOBUOYS

Footnote UK40 and UK48

1. Sonobuoys may be operated in the band 136-174 MHz, subject to the following conditions:
  - a) During normal peacetime exercises, sonobuoys operating below 162 MHz would not be deployed within 50 miles of the United Kingdom coast.
  - b) Sonobuoys would not normally be used within a radius of 5 nautical miles of any oil rig or platform.
  - c) Should the operation of Sonobuoys cause harmful interference to radio services operating in accordance with the UK Frequency Allocation Table, geographical or frequency assignment restrictions would be imposed on the Sonobuoy operations.
2. Sonobuoys are covered by Footnotes UK40 (for the band 136·0-162·0 MHz) and UK48 (for the band 162·0-174·0 MHz and permitting use near UK coasts on a non-interference basis).

The assignments agreed for Sonobuoys operations in the band 136-174 MHz are listed below.

Channel numbers	Frequency	Channel numbers	Frequency
1	162·25 MHz	47	141·625 MHz
2	163·0 MHz	48	142·0 MHz
3	163·75 MHz	49	142·375 MHz
4	164·5 MHz	50	142·75 MHz
5	165·25 MHz	51	143·125 MHz
6	166·0 MHz	52	143·5 MHz
7	166·75 MHz	53	143·875 MHz
8	167·5 MHz	54	144·250 MHz
9	168·25 MHz	55	144·625 MHz
10	169·0 MHz	56	145·0 MHz
11	169·75 MHz	57	145·375 MHz
12	170·5 MHz	58	145·75 MHz
13	171·25 MHz	59	146·125 MHz
14	172·0 MHz	60	146·5 MHz
15	172·75 MHz	61	146·875 MHz
16	173·5 MHz	62	147·25 MHz
17	Not used	63	147·625 MHz
18	163·375 MHz	64	148·0 MHz
19	164·125 MHz	65	148·375 MHz
20	164·875 MHz	66	148·75 MHz
21	165·625 MHz	67	149·125 MHz
22	166·375 MHz	68	149·5 MHz
23	167·125 MHz	69 - 77	Not used
24	167·875 MHz	78	153·25 MHz

Channel numbers	Frequency	Channel numbers	Frequency
25	168·625 MHz	79	153·625 MHz
26	169·375 MHz	80	154·0 MHz
27	170·125 MHz	81	154·375 MHz
28	170·875 MHz	82	154·75 MHz
29	171·625 MHz	83	155·125 MHz
30	172·375 MHz	84	155·5 MHz
31	173·125 MHz	85	155·875 MHz
32 - 37	Not used	86-89	Not used
38	138·25 MHz	90	157·75 MHz
39	138·625 MHz	91	158·125 MHz
40	139·0 MHz	92	158·5 MHz
41	139·375 MHz	93	158·875 MHz
42	139·75 MHz	94	159·25 MHz
43	140·125 MHz	95	159·625 MHz
44	140·5 MHz	96	160·0 MHz
45	140·875 MHz	97	160·375 MHz
46	141·25 MHz	98-104	Not used

## FREQUENCIES FOR THE AMATEUR AND AMATEUR SATELLITE SERVICES

Footnote UK7

1. The frequency bands or sub-bands listed below have been agreed by Ofcom for use by the Amateur service within the United Kingdom.
2. Bands allocated on a PRIMARY basis:

kHz	MHz	GHz
1810 – 1830 <sup>2</sup>	50.0 – 51.0 <sup>2</sup>	24.0 – 24.05 <sup>*4</sup>
1830 – 1850	144.0 – 146.0 <sup>*</sup>	47.0 – 47.20 <sup>*</sup>
3500 – 3800 <sup>1</sup>		75.875 – 76.00 <sup>1*</sup>
7000 – 7100 <sup>*</sup>		77.5 – 78.00 <sup>1*</sup>
7100 – 7200		134 – 136 <sup>1*</sup>
14000 – 14250 <sup>*</sup>		248 – 250 <sup>1*</sup>
14250 – 14350		
18068 – 18168 <sup>*</sup>		
21000 – 21450 <sup>*</sup>		
24890 – 24990 <sup>*</sup>		
28000 – 29700 <sup>*</sup>		

3. Bands or sub-bands allocated on a SECONDARY basis:

kHz	MHz	GHz
135.7 – 137.8 <sup>3 8</sup>	51 – 52 <sup>3</sup>	10.000 – 10.125
472 – 479	70 – 70.5 <sup>3</sup>	10.225 – 10.450
1850 – 2000 <sup>3</sup>	430 – 435 <sup>9.</sup>	10.450 – 10.475 <sup>*</sup>
10100 – 10150	435 – 438 <sup>*</sup>	10.475 – 10.500 <sup>6</sup>
	438 – 440	24.050 – 24.150 <sup>4 5</sup>
	1240 – 1260	24.150 – 24.250
	1260 – 1270 <sup>*7</sup>	75.500 – 75.875 <sup>*</sup>
	1270 – 1325	76.00 – 77.50 <sup>*</sup>
	2310 – 2400	78.00 – 79.00 <sup>*</sup>
	2400 – 2450 <sup>*4</sup>	79.00 – 81.00 <sup>*</sup>
	3400 – 3475	122.25 – 123.00
	5650 – 5670 <sup>*7</sup>	136.00 – 141.00 <sup>*</sup>
	5670 – 5680	241.00 – 248.00 <sup>*</sup>
	5755 – 5765 <sup>4</sup>	
	5820 – 5830 <sup>4</sup>	
	5830 – 5850 <sup>*4 10</sup>	

4. Notes on above tables:

\* May also be used by the Amateur-Satellite service.

<sup>1</sup> Shared with other services

<sup>2</sup> Available on the basis of non-interference to other services outside the UK

<sup>3</sup> Available on the basis of non-interference to other services inside or outside the UK

<sup>4</sup> Users must accept interference from ISM users

<sup>5</sup> May only be used with the written consent of Ofcom.

- <sup>6</sup> Amateur Satellite service only.  
<sup>7</sup> Earth to space only.  
<sup>8</sup> Maximum power (e.r.p.) 0 dBW.  
<sup>9</sup> The band 431-432 MHz must not be used within a 100 km radius of Charing Cross, London (51° 30' 30" N, 00° 07' 24" W).  
<sup>10</sup> Space to Earth only.
5. The bands allocated to the Amateur service at 3500 kHz, 7000 kHz, 10100 kHz, 14000 kHz, 18068 kHz, 21000 kHz, 24890 kHz and 144 MHz may, in the event of natural disasters, be used by non-Amateur stations to meet the need of international communications in the disaster area. Article 25.3 of the Radio Regulations refers.
6. The band allocated to the Amateur service at 50 - 51 MHz may, in the event of natural disasters, be used by non-Amateur stations to meet the need of communications in the disaster area.

## FREQUENCIES FOR DISTRESS AND SAFETY, SEARCH AND RESCUE AND EMERGENCIES

Footnote UK12

Frequency	Use
490 kHz	Transmission by coast stations or meteorological and navigational warnings and urgent information to ships by means of narrow-band direct-printing (NBDP) telegraphy (national NAVTEX).
518 kHz	Transmission by coast stations of meteorological and navigational warnings and urgent information to ships by means of automatic narrow-band direct-printing telegraphy (International NAVTEX System).
2174.5 kHz	International Global Maritime Distress and Safety System (GMDSS) distress frequency for narrow-band direct-printing telegraphy.
2182 kHz	International distress carrier frequency for radiotelephony. Distress calls and traffic, signals of emergency position-indicating radio-beacons (EPIRBs), urgency signal and urgency messages and the safety signal. GMDSS distress and safety traffic by radiotelephony. Search and Rescue (SAR) operations concerning manned space vehicles.
2187.5 kHz	GMDSS distress and safety calls using digital selective calling (DSC).
2596 kHz	Carrier frequency for radiotelephony. Used in the UK for SAR purposes by HM Coastguard (HMCG) and the Royal National Lifeboat Institution (RNLI).
3023 kHz	Aeronautical carrier frequency for radio-telephony. Can also be used in co-ordinated SAR operations. SAR operations concerning manned space vehicles.
3500 - 3800 kHz	Amateur band; in the event of natural disasters, may be used by non-Amateur stations to meet the needs of international communications in the disaster area.
4125 kHz	Carrier frequency used to supplement 2182 kHz for distress and safety. GMDSS distress and safety traffic by radiotelephony. May be used by aircraft to communicate with stations of the Maritime Mobile service for distress and safety purposes, including SAR.
4177.5 kHz	GMDSS distress and safety traffic by NBDP.
4207.5 kHz	GMDSS distress and safety calls using DSC.
4209.5 kHz	NAVTEX-type transmissions by coast stations by means of NBDP.
4210 kHz	Transmission by coast stations of Maritime Safety Information (MSI) by means of NBDP.
5680 kHz	Aeronautical carrier frequency for radiotelephony. Used in co-ordinated SAR operations. SAR operations concerning manned space vehicles.

Frequency	Use
6215 kHz	Carrier frequency used to supplement 2 182 kHz for distress and safety. GMDSS distress and safety traffic by radiotelephony.
6268 kHz	GMDSS distress and safety traffic by NBDP.
6312 kHz	GMDSS distress and safety calls using DSC.
6314 kHz	Transmission by coast stations of MSI by means of NBDP.
7000 - 7200 kHz	Amateur band; in the event of natural disasters, may be used by non-Amateur stations to meet the needs of international communications in the disaster area
8291 kHz	Carrier frequency for GMDSS distress and safety traffic by radiotelephony.
8364 kHz	Used by survival craft in SAR operations with stations of the Maritime and Aeronautical Mobile services.
8376.5 kHz	GMDSS distress and safety traffic by NBDP.
8414.5 kHz	GMDSS distress and safety calls using DSC.
8416.5 kHz	Transmission by coast stations of MSI by means of NBDP.
10003 kHz	SAR operations concerning manned space vehicles.
10100 - 10150 kHz	Amateur band; in the event of natural disasters, may be used by non-Amateur stations to meet the needs of international communications in the disaster area.
12290 kHz	Carrier frequency for GMDSS distress and safety traffic by radiotelephony.
12520 kHz	GMDSS distress and safety traffic by NBDP.
12577 kHz	GMDSS distress and safety calls using DSC.
12579 kHz	Transmission by coast stations of MSI by means of NBDP.
14000 - 14350 kHz	Amateur band; in the event of natural disasters, may be used by non-Amateur stations to meet the needs of international communications in the disaster area.
14993 kHz	SAR operations concerning manned space vehicles.
16420 kHz	Carrier frequency for GMDSS distress and safety traffic by radiotelephony.
16695 kHz	GMDSS distress and safety traffic by NBDP.
16804.5 kHz	GMDSS distress and safety calls using DSC.
16806.5 kHz	Transmission by coast stations of MSI by means of NBDP.

Frequency	Use
18068 - 18168 kHz	Amateur band; in the event of natural disasters, may be used by non-Amateur stations to meet the needs of international communications in the disaster area.
19680.5 kHz	Transmission by coast stations of MSI by means of NBDP.
19993 kHz	SAR operations concerning manned space vehicles.
21000 - 21450 kHz	Amateur band; in the event of natural disasters, may be used by non-Amateur stations to meet the needs of international communications in the disaster area.
22376 kHz	Transmission by coast stations of MSI by means of NBDP.
24890 - 24990 kHz	Amateur band; in the event of natural disasters, may be used by non-Amateur stations to meet the needs of international communications in the disaster area.
26100.5 kHz	Transmission by coast stations of MSI by means of NBDP.
86.3125 MHz	Land SAR - England, Wales, Scotland and Ireland.
121.45 - 121.55 MHz	Aeronautical emergency frequency for the purposes of distress and urgency for radiotelephony by stations of the Aeronautical Mobile service. May also be used for these purposes by survival craft stations. EPIRBs may also use this frequency. SAR operations concerning manned space vehicles.
123.1 MHz	Auxiliary to 121.5 MHz, for use by stations of the Aeronautical Mobile service and by other mobile and land stations engaged in co-ordinated SAR operations.
132.65 MHz	SAR helicopter co-ordination.
144 - 146 MHz	Amateur band; in the event of natural disasters, may be used by non-Amateur stations to meet the needs of international communications in the disaster area.
156.0 MHz	HMCG SAR on the UK coast.
156.3 MHz	Communications between ship stations and aircraft stations engaged in co-ordinated SAR operations. May be used by aircraft stations to communicate with ship stations for other safety purposes.
156.375 MHz	Communication between ship stations, aircraft stations and participating land stations engaged in co-ordinated SAR and anti-pollution operations. HMCG Yacht safety channel (1st reserve).
156.5 MHz	Communication between ship stations, aircraft stations and participating land stations engaged in co-ordinated SAR and anti-pollution operations.
156.525 MHz	In the Maritime Mobile VHF service the frequency 156.525 MHz is to be used exclusively for digital selective calling for distress, safety and calling (see Resolution 323 (Mob-87)).



Frequency	Use
156·65 MHz	GMDSS ship-to-ship communications relating to the safety of navigation.
156·675 MHz	Communications between ship stations, aircraft stations and participating land stations engaged in co-ordinated SAR and anti-pollution operations. HMCG 2nd reserve channel for SAR.
156·8 MHz	International distress and safety frequency for radiotelephony. Used for the distress signal the distress call, distress traffic, the urgency signal urgency traffic and the safety signal. GMDSS distress and safety traffic by radiotelephony. May be used by aircraft stations for safety purposes only. SAR operations concerning manned space vehicles.
158·65 MHz	Land SAR - Scotland.
160·6 MHz	HMCG SAR on the UK coast.
161·975 MHz	AIS 1 – used for AIS search and rescue transmitters (AIS-SART) for use in search and rescue operations.
162·025 MHz	AIS 2 – used for AIS search and rescue transmitters (AIS-SART) for use in search and rescue operations.
242·95 - 243·05 MHz	Survival craft stations and equipment used for survival purposes. SAR operations concerning manned space vehicles.
282·8 MHz	Survival craft stations and equipment used for survival purposes. SAR operations concerning manned space vehicles.
406 – 406·1 MHz	Satellite EPIRBs in the Earth-to-space direction.
1530 - 1544 MHz	In addition to routine non-safety use, is used for distress and safety purposes in the space-to Earth direction in the Maritime Mobile-Satellite service.
1544 - 1545 MHz	Distress and safety operations including feeder links of satellites need to relay the emissions of satellite EPIRBs to Earth stations and narrow-band (space-to-Earth) links from space stations to mobile stations.
1626·5 - 1645·5 MHz	In addition to routine non-safety use, is used for distress and safety purposes in the Earth-to-space direction in the Maritime Mobile-Satellite service.
1645 - 1646·5 MHz	Distress and safety operations including transmissions from satellite EPIRBs and relay distress alerts received by satellites in low polar earth orbits to geostationary satellites.
9200 – 9500 MHz	Search and rescue Radar transponders to facilitate SAR.

## SPECTRUM AVAILABLE FOR USE IN PROGRAMME MAKING AND SPECIAL EVENTS

Footnote UK 27

Frequency	Comments & typical use
47·55 - 48·8 MHz	Audio.
52·0 - 52·95 MHz	Audio.
53·75 - 55·75 MHz	Audio.
60·75 - 62·75 MHz	Audio.
67·75 - 67·8375 MHz	Audio.
69·15625 - 69·18125 MHz	Audio.
74·68125 - 74·71875 MHz	Audio.
75·2625 - 75·3 MHz	Audio, airborne use permitted, restrictions apply.
76·80625 - 76·84375 MHz	Audio.
78·18375 - 78·25875 MHz	Audio.
82·65625 - 82·68125 MHz	Audio.
86·66875 - 86·68125 MHz	Audio, geographical restrictions apply.
86·80625 - 86·84375 MHz	Audio, airborne use permitted, restrictions apply.
139·54375 - 139·55625 MHz	Audio, geographic restrictions apply.
139·56875 - 139·58125 MHz	Audio, geographic restrictions apply.
139·64375 - 139·66875 MHz	Audio, geographic restrictions apply.
140·9875 - 141·4875 MHz	Audio, geographic restrictions apply. Airborne use permitted, restrictions apply.
148·5625 - 148·5875 MHz	Audio, geographic restrictions apply.
148·7125 - 148·7375 MHz	Audio, geographic restrictions apply.
175·15 - 175·35 MHz	Wireless microphone use. Geographic restrictions apply.
175·425 - 175·625 MHz	Radio microphone use. Geographic restrictions apply.
176·3 - 177·1 MHz	Radio microphone use. Geographic restrictions apply.
181·69375 - 181·80625 MHz	Audio Links and Data Links.
184·5 - 185·1 MHz	Wireless microphone use.
189·69375 - 189·80625 MHz	Audio Links and Data Links.
191·6 - 191·8 MHz	Includes use by Links and wireless microphones.
191·8 - 192·0 MHz	Wireless microphone use.
192·0 - 193·1 MHz	Wireless microphone use.
199·6 - 200·2 MHz	Includes use by fixed audio links and wireless microphones. Restrictions apply for links.

Frequency	Comments & typical use
200·2 - 201·1 MHz	Wireless microphone use.
207·6 - 210·1 MHz	Wireless microphone use.
425·3125 - 425·5625 MHz	Audio, geographic restrictions apply.
427·7625 - 428·0125 MHz	Audio, geographic restrictions apply.
442·2625 - 442·5125 MHz	Audio, geographic restrictions apply.
446·425 - 447·5125 MHz	Audio, power restrictions apply in certain geographic areas.
454·9875 - 455·4625 MHz	Audio, geographic restrictions apply. Some airborne use permitted, restrictions apply.
457·25 - 457·475 MHz	Audio, some airborne use permitted, restrictions apply.
461·23125 - 461·25625 MHz	Audio, some airborne use permitted, restrictions apply.
462·750 - 463·000 MHz	Audio, Some airborne use permitted, restrictions apply. Some power restrictions apply.
467·2625 - 469·8750 MHz	Audio. Geographic restrictions apply. Some airborne use permitted, restrictions apply.
470 - 606 MHz	Includes use by audio links and wireless microphones. Restrictions apply.
606 - 614 MHz	Low power wireless microphone use only.
614 - 790 MHz	Includes use by audio and wireless microphones. Restrictions apply.
1517 - 1525 MHz	Audio and wireless microphones.
1785 - 1800 MHz	Wireless microphones. 1790-1798 MHz – use to be co-ordinated with Ofcom/Scottish Government. Not available in Northern Ireland.
2010 - 2025 MHz	Video. Available subject to an award
2025 - 2110 MHz	Video used on the basis of no interference to, and no-protection from, MoD Services operating in 2025-2070 MHz. Some airborne use permitted, restrictions apply. Available pending MOD award.
2200 - 2300MHz	Video used on the basis of no interference to, and no-protection from, MoD Services operating in 2200-2245 MHz. Some airborne use permitted, restrictions apply
2390 - 2500 MHz	Video. Geographic restrictions apply. Some airborne use permitted, restrictions apply
3400 - 3440 MHz	Video. Geographic restrictions apply. Some airborne use permitted, restrictions apply.
3500 - 3580 MHz	Video. Geographic restrictions apply. Some airborne use permitted, restrictions apply
5472 - 5588 MHz	Fixed video links. Geographic restrictions apply.
5682·5 - 5702·5 MHz	Fixed video links. Geographic restrictions apply.
5705 - 5725 MHz	Fixed video links. Geographic restrictions apply.
5732·5 - 5752·5 MHz	Fixed video links. Geographic restrictions apply.
5770 - 5790 MHz	Fixed video links. Geographic restrictions apply. Some airborne use permitted, restrictions apply
5795 - 5815 MHz	Fixed video links. Geographic restrictions apply. Some airborne use permitted, restrictions apply.

Frequency	Comments & typical use
5850 - 5925 MHz	Fixed video links. Geographic restrictions apply. Some airborne use permitted, restrictions apply.
7110 - 7250 MHz	Fixed video links. Some geographic restrictions apply. Some airborne use permitted, restrictions apply.
7300 - 7425 MHz	Fixed video links.
8460 - 8500 MHz	Fixed video links. Some geographic restrictions apply.
10·30 - 10·36 GHz	Fixed video links. Geographic restrictions apply. Some airborne use permitted, restrictions apply.
12·2 - 12·5 GHz	Fixed video links.
24·25 - 24·5 GHz	Fixed video links.
48·0 - 48·4 GHz	Video links.

**SPECTRUM ALLOCATED FOR EMERGENCY SERVICES USE**

Footnote UK3

<b>Frequency</b>	<b>Comments</b>
70.50 - 71.50 MHz	Scotland only
80.0 - 81.5 MHz	Scotland only
86.30625 - 86.31875 MHz	UK - Land Search & Rescue.
138.0875 - 138.1125 MHz	England and Wales only
138.2875 - 138.3125 MHz	England and Wales only
143 - 144 MHz	Scotland only
146 - 148 MHz	Scotland only – minimal number of channels retained for use in England, Wales and Northern Ireland
152.0 - 153.01250 MHz	Scotland only – minimal number of channels retained for use in England, Wales and Northern Ireland
153.0375 - 153.0625 MHz	
154 - 156 MHz	Scotland only – minimal number of channels retained for use in England, Wales and Northern Ireland
155.34375 - 155.35625 MHz	Scotland & Northern Ireland - Land Search & Rescue.
168.3125 - 168.8375 MHz	
173.9875 - 174.0 MHz	
380 - 385 MHz	
390 - 395 MHz	
410 - 412 MHz	
420 - 422 MHz	
450 - 453 MHz	
453.26875 - 453.28125 MHz	England and Wales only.
453.31875 - 453.33125 MHz	England and Wales only.
453.36875 - 453.38125 MHz	England and Wales only.
455.875 - 456.0 MHz	
457.0 - 457.25 MHz	

Frequency	Comments
457·475 - 457·5 MHz	
459·49375 - 459·50625 MHz	
459·50625 - 459·51875 MHz	
459·53125 - 459·54375 MHz	
459·76875 - 459·78125 MHz	England and Wales only.
459·81875 - 459·83125 MHz	England and Wales only.
459·86875 - 459·88125 MHz	England and Wales only.
460·5 - 460·75 MHz	
462·5 - 462·75 MHz	
464·0 - 466·0625 MHz	
466·0875 - 467·25 MHz	
469·875 - 470·0 MHz	
862 - 863 MHz	
1668 - 1670 MHz	Scotland only
1677 - 1685 MHz	
1698 - 1700 MHz	Scotland only
1790 - 1798 MHz	
2302 - 2310 MHz	
2310 - 2320 MHz	For wideband mobile emergency services (subject to MoD agreement). Not used by Scottish Government services.
2320 - 2360 MHz	For wideband mobile emergency services (subject to MoD agreement).
2360 - 2380 MHz	For wideband aeronautical mobile emergency services (on a temporary basis and subject to MoD agreement).
3442 - 3475 MHz	
8340 - 8360 MHz	For mobile emergency services (within the M25 orbital road only).
8400 - 8460 MHz	
10·25 - 10·27 GHz	For mobile emergency services (subject to MoD agreement).
10·36 - 10·4 GHz	For mobile emergency services (subject to MoD agreement).

Frequency	Comments
10·4 - 10·46 GHz	For mobile emergency services (within the M25 orbital road only).
24·05 - 24·15 GHz	
50·2 - 50·4 GHz	Paired with 51·2-51·4 GHz – for mobile Emergency Services. Not used by Scottish Government services. Migration of emergency services out of the band to be completed by December 2013. Current usage is very low and has nomadic profile with the use geographically limited to London.
51·2 - 51·4 GHz	Paired with 50·2-50·4 GHz – for mobile Emergency Services. Not used by Scottish Government services.

**Note.**

The Public Safety Spectrum Policy Group (PSSPG) is a standing interdepartmental committee advising government and Ofcom on spectrum issues relating to the police fire and ambulance service. It reports through an independent chair to the United Kingdom Spectrum Strategy Committee and draws its membership from departments in central government and the devolved administrations that sponsor the police fire and ambulance service and other departments with an interest in the Emergency Services or associated emergency responders.

Further details can be found at:

<http://licensing.ofcom.org.uk/radiocommunication-licences/business-radio/guidance-for-licensees/airwave-emergency-services/psspg/>

## SPECTRUM AVAILABLE FOR POWER LINE CARRIER SYSTEMS

Footnote UK13

The Energy Networks Association may make assignments for power line carrier systems in the bands below. These systems fall into two categories –

- Normally Quiescent Carrier Systems. These systems may use any frequency within the range 30·0 to 526·5 kHz.
- Continuous Carrier Systems. These systems may also use frequencies within the range 30·0 to 526·5 kHz. This use is in accordance with the availability of the bands and restrictions listed below in the table below.

<b>Band (kHz)</b>	<b>Availability and Restriction</b>
30 to 59	Available without restriction.
59 to 61	Not available - to guard reception of TIME SIGNALS and STANDARD FREQUENCY transmissions.
61 to 90	Available without restriction.
90 to 110	Not available.
110 to 129	Available without restriction.
129 to 132	Available without restriction.
132 to 135	Not available.
135 to 138	Available but note presence of the Amateur service.
138 to 146	Available without restriction.
146 to 148	Not available.
148 to 193	Available without restriction.
193 to 203	Not available.
203 to 222	Available without restriction.
222 to 232	Not available.
232 to 247	Available without restriction.
247 to 489	Not available - to guard AERONAUTICAL RADIONAVIGATION and maritime radio beacons.
489 to 491	Available subject to protection of Maritime Safety Information (GMDSS).



<b>Band (kHz)</b>	<b>Availability and Restriction</b>
491 to 495	Available.
495 to 505	Not available - to guard DISTRESS traffic on 500 kHz.
505 to 526.5	Available - subject to protection of NAVTEX service.

## MEMORANDUMS OF UNDERSTANDING AND AGREEMENTS

### Footnote UK8

This annex provides details the Memoranda of Understanding (MoUs) and Agreements entered into by Ofcom relating to cross-border radio frequency coordination and the management of interference. The information provided in this document includes:

- Mobile Service
- Broadband Wireless
- Business Radio
- Broadcasting Services:
  - BAND III (174-225/230 MHz)
  - BANDS IV/V (470-862 MHz)

MoUs define the signal power, in a specified frequency band, that may be received in a neighbour country from a station in the home country. Stations that exceed the defined power levels are coordinated directly between the administrations on behalf of the operators. MoUs do not give an absolute assurance of no interference into stations close to a border or set an absolute limit on the signal strength that may be received in one administration from a transmitter in another. They specify a trigger level, which is used to initiate a formal coordination procedure so that an administration may have knowledge of, and an opportunity to express concern about, transmitters in a neighbouring country.

Where they are available, recommendations published by the European Conference of Postal and Telecommunications (CEPT) typically provide a basis for the negotiation of MoUs with neighbouring administrations. It is unusual to make a separate assessment of interference between the UK and a neighbour administration. Ofcom contributes to the development of the CEPT recommendations.

The licensee is responsible for ensuring compliance with the terms of the MOU, Ofcom will coordinate with the neighbouring administration if the licensee is unable to comply. If requested, by a neighbour administration, Ofcom will assess the operator networks for compliance to the MoU.

## Mobile & Broadband Services

Title	Date
Memorandum of Understanding concluded between the administrations of France and the United Kingdom on co-ordination in the 47 – 68 MHz frequency bands	19 March 2004
Memorandum of Understanding concluded between the administrations of France and the United Kingdom for Frequency Co-ordination of specific blocks in the bands 380 – 385 MHz and 390 – 395 MHz	1 January 2005
Memorandum of Understanding on frequency co-ordination between France and the United Kingdom in the frequency bands 410-430 MHz	1 March 2008
Memorandum of Understanding on frequency coordination between France and the United Kingdom in the frequency bands 880 – 915 MHz paired with 925 – 960 MHz and 1710-1785 paired with 1805-1880MHz	1 December 2010
<p>Memorandum of Understanding concluded between France and the United Kingdom for frequency co-ordination in the 890 – 915 MHz and 935 – 960 MHz frequency bands</p> <p>Note: Preferential frequencies may be used in the Channel Tunnel</p>	1 May 2000
Memorandum of Understanding concluded between the administrations of the United Kingdom and France in the 1710 – 1785 and 1805 - 1880 MHz frequency bands	1 November 1998
Memorandum of Understanding concluded between France and the United Kingdom on co-ordination in the 1900 – 1980 MHz, 2010 – 2025 MHz and 2110 – 2170 MHz frequency bands	1 December 2010
Memorandum of Understanding on frequency co-ordination between France and the United Kingdom in the frequency bands 2500 - 2690 MHz	1 March 2008
Memorandum of Understanding on frequency coordination between France and the United Kingdom in the frequency bands 880 – 915 MHz paired with 925 – 960 MHz and 1710 – 1785 paired with 1805 – 1880 MHz, 1900 – 1980 MHz and 2110 – 2170 MHz	20 December 2012
Agreement between France and the United Kingdom concerning the approval of planning arrangements between mobile Radiocommunications network operators	1 November 1999
Memorandum of understanding between the administrations of Belgium, Germany France, Ireland, Luxembourg, The Netherlands, Switzerland and the United Kingdom concerning the co-ordination of frequencies in the frequency bands 380 – 385 MHz and 390 – 395 MHz	26 September 1997

Memorandum of understanding between the administrations of Belgium, France, Luxembourg, The Netherlands and the United Kingdom concerning the co-ordination of EGSM frequencies in the frequency bands 880-890 MHz and 925-935 MHz	26 June 1998
Memorandum of Understanding on frequency coordination between France and the United Kingdom in the frequency bands 880 – 915 MHz paired with 925 – 960 MHz and 1710-1785 paired with 1805-1880 MHz to be applied in the area of the Channel Islands and France	1 December 2010
Memorandum of Understanding concluded between France/UK for frequency co-ordination in the 880 – 915 MHz and 925 – 960 MHz frequency bands to be applied in the area including France and the Channel Islands (E-GSM and GSM bands)	2 January 2005
Memorandum of Understanding concluded between France and the United Kingdom for frequency co-ordination in the 1710 – 1785 MHz and 1805 – 1880 MHz frequency bands to be applied in the area including the Channel Islands and France	16 November 2000
Memorandum of Understanding concluded between France/UK on co-ordination in the 1900 – 1980 MHz, 2010 – 2025 MHz and 2110 – 2170 MHz frequency bands to be applied in the area including the Channel Islands and France	1 February 2003
Memorandum of Understanding on frequency co-ordination between France and the United Kingdom in the frequency bands 2500 - 2690 MHz to be applied in the area including France and the Channel Islands	1 December 2010
Memorandum of understanding on Frequency coordination between France and The United Kingdom for wireless access services in the frequency band 3480 to 3500 MHz and 3580 to 3600 MHz. To be applied in the area including France, the United Kingdom and the Channel Islands	24 September 2008
Memorandum of Understanding on Frequency Co-Ordination between the Republic of Ireland and the United Kingdom in the frequency bands 410 to 414 MHz and 420 to 424 MHz	1 October 2006
Memorandum of Understanding on Frequency Co-Ordination between the Republic of Ireland and the United Kingdom in the frequency bands 790 – 862 MHz	1 March 2012
Memorandum of Understanding on frequency co-ordination between the Republic of Ireland and the United Kingdom in the frequency bands 872 to 876 MHz and 917 to 921 MHz	1 July 2007
Memorandum of Understanding on frequency co-ordination between Ireland and the United Kingdom in the frequency bands 880 – 890 MHz and 925-935 MHz designated for E-GSM	1 December 2005
Memorandum of Understanding on frequency co-ordination between Ireland and the United Kingdom in the frequency bands 890 – 915 MHz and 935 – 960 MHz designated for GSM	1 January 2001

Memorandum of Understanding on frequency co-ordination between the Republic of Ireland and the United Kingdom in the frequency bands 890 – 915 MHz paired with 935 – 960 MHz and 1710 -1785 MHz paired with 1805 – 1880 MHz	1 May 2011
Memorandum of Understanding concluded between the United Kingdom and Ireland on co-ordination in the 1710 – 1785 and 1805 – 1880 MHz frequency bands	1 September 1999
Memorandum of understanding on frequency coordination between Ireland and the United Kingdom in the frequency bands 1785 – 1805 MHz to be applied in the area including the Republic of Ireland, the United Kingdom and the Isle of Man	23 October 2009
Memorandum of understanding on frequency coordination between Ireland and the United Kingdom in the frequency bands 1900 – 1980 MHz, 2010-2025 MHz and 2110-2170 MHz designated for UMTS	1 January 2003
Memorandum of understanding on frequency coordination between Ireland and the United Kingdom in the frequency bands 2300 – 2400 MHz to be applied in the area including the Republic of Ireland, the United Kingdom and the Isle of Man	23 October 2009
Memorandum of Understanding on Frequency Co-Ordination between the Republic of Ireland and the United Kingdom in the frequency bands 2500 - 2690 MHz	1 March 2008
Memorandum of Understanding on Frequency coordination between the Republic Of Ireland and the United Kingdom for Wireless Access Services in the frequency band 3400 To 3800 MHz	1 April 2008
Memorandum of Understanding on Frequency coordination between the Republic Of Ireland and the United Kingdom for Wireless Access Services in the frequency band 10000 To 10680 MHz	14 May 2010
Agreement between the administrations of UK/Ireland concerning the approval of planning arrangements between operators of mobile radio communication networks	1 May 2005
Memorandum of understanding between the Isle of Man and the United Kingdom on frequency coordination in the frequency bands 1914.9-1919.9. 1920.3-1930.3 and 2110.3-2120.3 MHz	1 May 2001
Memorandum of Understanding on frequency co-ordination between: Cable & Wireless Isle of Man Limited, Cloud9 Mobile Communications Limited, Manx Telecom Limited, Telefónica O2 (UK) Limited, T-Mobile (UK) Limited, Vodafone Limited, in the frequency bands 880 to 915 and 925 to 960 MHz and 1710 to 1785 and 1805 to 1880 MHz	1 February 2009
Memorandum of understanding between the MoD and Ofcom relating to spectrum management and coordination with RAF Fylingdales in the frequency range 420-450MHz	14 December 2007

## Business Radio

Title	Date
MoU between the administrations of the UK/France on the co-ordination in the 47-68 MHz Frequency band	19 March 2004
Co-ordination agreement in the 138-144MHz band between the United Kingdom and France (Paris Agreement)	29 November 1990
<p>MoU: Low, Mid, High and UHF2 between the UK and Ireland</p> <p>Low Band      85.0125 MHz to 86.7 MHz paired with 71.5125 MHz to 72.7875 MHz</p> <p>86.7125 MHz to 86.70 MHz paired with 76.7125 MHz to 77.9875 MHz</p> <p>81.7 MHz to 83.5 MHz paired with 68.2 MHz to 70.0 MHz</p> <p>Mid Band      162.05 MHz to 169.0375 MHz paired with 157.45 MHz to 160.5375 MHz</p> <p>High Band      165.05 MHz to 169.8375 MHz paired with 169.85 MHz to 173.05 MHz</p> <p>UHF 2          453.0125 MHz to 456.9875 MHz paired with 459.5625 MHz to 462.4 MHz</p>	11 August 1999
Band III (174-225MHz) Changes of Use in the United Kingdom	18 January 1985  Abrogated by BEL but we continue to use in spirit as we migrate to GE06.
MoU between the administrations of the UK/France concerning the use of the band 174-225 MHz	10 April 1984
MoU between the administrations of the United Kingdom and Netherlands concerning the use of the band 174-225 MHz	27 November 1984  Continue to use in spirit as we migrate to GE06
GE06 Agreement between the UK and Belgium – Band III	8 June 2006
GE06 Agreement between the UK and France – Band III	8 June 2006
GE06 Agreement between the UK and Netherlands – Band III	8 June 2006
MoU concluded between the administrations of France and The United Kingdom for the frequency co-ordination in the bands 380-385MHz and 390-395 MHz applicable in the area including the Channel Islands and France	1 January 2002
MoU between the administrations of Belgium, Germany, France, Ireland, Luxembourg, The Netherlands, Switzerland, and the United Kingdom the United Kingdom concerning coordination of frequencies in the frequency bands 380-385MHz and 390-395 MHz	26 September 1997

MoU between the administrations of UK and France and is additional to the Memorandum of understanding between the administrations Belgium, Germany, France, Ireland, Luxembourg, The Netherlands, Switzerland, and the United Kingdom the United Kingdom concerning coordination of frequencies in the frequency bands 380-385MHz and 390-395 MHz	20 December 2001
MoU concluded between UK/France concerning the co-ordination of frequencies in the frequency band 410 - 430 MHz	22 January 2008
MoU between UK and Ireland on frequency coordination in the frequency bands 410-414 MHz / 420-424 MHz	September 2006

### **Broadcasting services**

#### **BAND III (174-225/230 MHz)**

<b>Title</b>	<b>Date</b>
RRC06 'Conditional' Administrative Declarations between the Administrations of United Kingdom and Belgium	9 June 2006
Bilateral Agreement between the United Kingdom and France concerning VHF Band III Broadcasting Services in the GE06 Plan	9 June 2006
Bilateral Agreement between the United Kingdom and The Netherlands concerning VHF Band III Broadcasting Services in the GE06 Plan	June 2006
Bilateral Agreement between UK and Ireland relating to T-DAB implementation in 209-230 MHz	9 June 2006

#### **BANDS IV/V (470-862 MHz)**

<b>Title</b>	<b>Date</b>
GE06 Band IV/V Bilateral Co-ordination Agreement Between The Administrations of Belgium and The United Kingdom of Great Britain and Northern Ireland	14 June 2006
GE06 Band IV/V Bilateral Co-ordination Agreement Between The Administrations of France and The United Kingdom of Great Britain and Northern Ireland - <i>Revoked and replaced by the 800MHz DTT Clearance Bilateral Agreement signed on the 21<sup>st</sup> March 2012</i>	16 June 2006
GE06 Band IV/V Bilateral Co-ordination Agreement Between The Administrations of Ireland and The United Kingdom of Great Britain and Northern Ireland - <i>Revoked and replaced by the IRL/UK 800MHz DTT Clearance Bilateral Agreement signed on the 1<sup>st</sup> June 2012</i>	15 June 2006
GE06 Band IV/V Bilateral Co-ordination Agreement Between The Administrations Of The Kingdom of The Netherlands and The United Kingdom of Great Britain and Northern Ireland	14 June 2006

Agreements between the United Kingdom and Belgium, France and the Netherlands regarding transitional arrangements not covered by the Geneva 06 Regional Agreement	11 and 14 June 2006
Agreement between the United Kingdom and France regarding Points of Principle for ongoing Bilateral co-operation concerning the Switch over of Analogue and Interim DTT/TNT services to the GE06 frequency plan	16 April 2008
Bilateral Agreement for Equitable Access to UHF Channel 36 (590-598MHz) Between The Administrations of France and The United Kingdom Of Great Britain And Northern Ireland	21 August 2008
Bilateral Agreement for Equitable Access to UHF Channel 36 (590-598MHz) Between The Administrations of The Netherlands And The United Kingdom Of Great Britain And Northern Ireland	6 November 2008
Band IV/V Bilateral Co-ordination Agreement between the administrations of France and the United Kingdom of Great Britain and Northern Ireland.  Revision of the Geneva 2006 Plan to facilitate Clearance of Broadcasting Services from the 790MHz – 862MHz Band	21 March 2012
Band IV/V Bilateral Co-ordination Agreement between the administrations of Ireland and the United Kingdom of Great Britain and Northern Ireland.  Revision of the Geneva 2006 Plan to facilitate Clearance of Broadcasting Services from the 790MHz – 862MHz Band	1st June 2012