





TEST REPORT FROM RFI GLOBAL SERVICES LTD

Test of: DM10-US

FCC ID: UOJ-DG02T

IC Certification Number: 6769A-DG02T

To: FCC Part 15.247: 2010 Subpart C, RSS-210 Issue 8 December 2010 & RSS-Gen Issue 3 December 2010

Test Report Serial No: RFI-RPT-RP79706JD01A

This Test Report Is Issued Under The Authority Of Chris Guy, Head of Global Approvals:	1. M. Wester
Checked By:	lan Watch
Signature:	1.M. Wester
Date of Issue:	24 March 2011

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RFI Global Services Ltd

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Page 2 of 29 RFI Global Services Ltd

Table of Contents

1. Customer Information	4
2. Summary of Testing	5 5 5 6 6
3. Equipment Under Test (EUT) 3.1. Identification of Equipment Under Test (EUT) 3.2. Description of EUT 3.3. Modifications Incorporated in the EUT 3.4. Additional Information Related to Testing 3.5. Support Equipment	7 7 7 7 8 8
4. Operation and Monitoring of the EUT during Testing	9 9 9
5. Measurements, Examinations and Derived Results 5.1. General Comments 5.2. Test Results 5.2.1. Transmitter AC Conducted Spurious Emissions 5.2.2. Transmitter 6 dB Bandwidth 5.2.3. Transmitter 20 dB Bandwidth 5.2.4. Transmitter Power Spectral Density 5.2.5. Transmitter Maximum Peak Output Power 5.2.6. Transmitter Radiated Emissions 5.2.7. Transmitter Radiated Emissions 5.2.8. Transmitter Band Edge Radiated Emissions	10 10 11 11 13 15 17 19 21 23 27
6. Measurement Uncertainty	28
Annendix 1 Test Fauinment Used	29

RFI Global Services Ltd Page 3 of 29

1. Customer Information

Company Name:	Comfort Audio AB
Address:	Slottsmallan
	Halmstad
	302 31
	Sweden

Page 4 of 29 RFI Global Services Ltd

2. Summary of Testing

2.1. General Information

Specification Reference:	47CFR15.247	
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications) 2010: Part 15 Subpart C (Intentional Radiators) - Section 15.247	
Specification Reference:	47CFR15.207 and 47CFR15.209	
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications) 2010: Part 15 Subpart C (Intentional Radiators) - Sections 15.207 and 15.209	
Specification Reference:	RSS-Gen Issue 3 December 2010	
Specification Title:	General Requirements and Information for the Certification of Radio Apparatus	
Specification Reference:	RSS-210 Issue 8 December 2010	
Specification Title:	Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment.	
Site Registration:	FCC: 209735; Industry Canada: 3245B-2	
Location of Testing:	RFI Global Services Ltd, Wade Road, Basingstoke, Hampshire, RG24 8AH.	
Test Dates:	06 March 2011 to 12 March 2011	

2.2. Summary of Test Results

IC Reference	Measurement	Result
RSS-Gen 7.2.4	Transmitter AC Conducted Emissions	②
RSS-Gen 4.6.2 RSS-210 A8.2(a)	Transmitter 6 dB Bandwidth	Ø
RSS-Gen 4.6.1/4.6.3	Transmitter 20 dB Bandwidth	②
RSS-210 A8.2(b)	Transmitter Power Spectral Density	②
RSS-Gen 4.8 RSS-210 A8.4(4)	Transmitter Maximum Peak Output Power	
RSS-Gen 4.9 RSS-210 A8.5	Transmitter Radiated Emissions	②
RSS-Gen 4.9 RSS-210 A8.5	Transmitter Band Edge Radiated Emissions	②
	RSS-Gen 7.2.4 RSS-Gen 4.6.2 RSS-210 A8.2(a) RSS-Gen 4.6.1/4.6.3 RSS-210 A8.2(b) RSS-Gen 4.8 RSS-210 A8.4(4) RSS-Gen 4.9 RSS-Gen 4.9 RSS-Gen 4.9	RSS-Gen 7.2.4 Transmitter AC Conducted Emissions RSS-Gen 4.6.2 RSS-210 A8.2(a) Transmitter 6 dB Bandwidth RSS-Gen 4.6.1/4.6.3 Transmitter 20 dB Bandwidth RSS-210 A8.2(b) Transmitter Power Spectral Density RSS-Gen 4.8 RSS-210 A8.4(4) Transmitter Maximum Peak Output Power RSS-Gen 4.9

Key to Results



= Did not comply

RFI Global Services Ltd Page 5 of 29

VERSION 2.0 ISSUE DATE: 24 MARCH 2011

2.3. Methods and Procedures

Reference:	ANSI C63.4 (2009)
Title:	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.
Reference:	ANSI C63.10 (2009)
Title:	American National Standard for Testing Unlicensed Wireless Devices

2.4. Deviations from the Test Specification

For the measurements contained within this test report, there were no deviations from, additions to, or exclusions from the test specification identified above.

Page 6 of 29 RFI Global Services Ltd

3. Equipment Under Test (EUT)

3.1. Identification of Equipment Under Test (EUT)

Brand Name:	Comfort Audio
Model Name or Number:	Microphone DM10-US
Serial Number:	SN0008903
Hardware Version Number:	ТММ9В
Software Version Number:	1.09
FCC ID:	UOJ-DG02T
IC Certification Number:	6769A-DG02T

Description:	Mains Charger
Brand Name:	Comfort Audio
Model Name or Number:	FW7600/05
Serial Number:	1108B

Description:	External clip on microphone	
Brand Name:	Comfort Audio	
Model Name or Number:	Clip on microphone	
Serial Number:	None stated	

3.2. Description of EUT

The equipment under test was a small lecture microphone which can be attached to clothes with a clip or be used with an external microphone.

3.3. Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

RFI Global Services Ltd Page 7 of 29

3.4. Additional Information Related to Testing

Tested Technology:	Digital Transmission System		
Type of Unit:	Transmitter		
Modulation:	FSK		
Power Supply Requirement:	Nominal 3.7V		
Maximum Conducted Peak Output Power:	2.6 dBm		
Transmit Frequency Range:	902 MHz to 928 MHz		
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	1	904.65
	Middle	19	915.45
	Тор	38	926.85

3.5. Support Equipment

No support equipment was used to exercise the EUT during testing:

Page 8 of 29 RFI Global Services Ltd

VERSION 2.0 ISSUE DATE: 24 MARCH 2011

4. Operation and Monitoring of the EUT during Testing

4.1. Operating Modes

The EUT was tested in the following operating mode(s):

- Continuous transmit mode (default and only supported operating mode) on bottom, middle and top channels as required.
- The EUT was only capable of operating in a continuous transmission mode and therefore had no idle or receive only mode

4.2. Configuration and Peripherals

The EUT was tested in the following configuration(s):

- Charging via supplied mains charger.
- External microphone attached.

RFI Global Services Ltd Page 9 of 29

ISSUE DATE: 24 MARCH 2011

5. Measurements, Examinations and Derived Results

5.1. General Comments

Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to Section 6. Measurement Uncertainty for details.

Page 10 of 29 RFI Global Services Ltd

VERSION 2.0 ISSUE DATE: 24 MARCH 2011

5.2. Test Results

5.2.1. Transmitter AC Conducted Spurious Emissions

Test Summary:

Test Engineer:	Crawford Lindsay	Test Date:	11 March 2011
Test Sample Serial No:	SN0008903		

FCC Part:	15.207
Test Method Used:	As detailed in ANSI C63.10 Section 6.2 referencing ANSI C63.4

Environmental Conditions:

Temperature (°C):	21
Relative Humidity (%):	23

Results: Quasi Peak

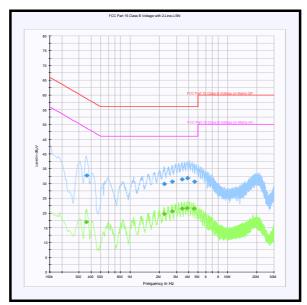
Frequency (MHz)	Line	Level (dBμV)	Limit (dB _µ V)	Margin (dB)	Result
0.362	Live	32.7	58.7	26.0	Complied
2.256	Neutral	29.9	56.0	26.1	Complied
2.724	Neutral	30.7	56.0	25.3	Complied
3.422	Neutral	31.4	56.0	24.6	Complied
3.872	Neutral	31.8	56.0	24.2	Complied
4.574	Neutral	30.7	56.0	25.3	Complied

Results: Average

Frequency (MHz)	Line	Level (dBμV)	Limit (dBμV)	Margin (dB)	Result
0.357	Live	16.9	48.8	31.9	Complied
2.247	Neutral	19.6	46.0	26.4	Complied
2.715	Neutral	20.6	46.0	25.4	Complied
3.404	Neutral	21.4	46.0	24.6	Complied
3.863	Neutral	21.6	46.0	24.4	Complied
4.542	Neutral	21.6	46.0	24.4	Complied

RFI Global Services Ltd Page 11 of 29

Transmitter AC Conducted Spurious Emissions (continued)



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

Page 12 of 29 RFI Global Services Ltd

5.2.2. Transmitter 6 dB Bandwidth

Test Summary:

Test Engineer:	Crawford Lindsay	Test Date:	07 March 2011
Test Sample Serial No:	SN0008903		

FCC Part:	15.247(a)(2)
Test Method Used:	As detailed in ANSI C63.10 Section 6.9.1 referencing KDB 558074 "Measurement of Digital Transmission Systems Operating under Section 15.247 March 23, 2005".

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	24

Results:

Channel	6 dB Bandwidth (MHz)	Limit (MHz)	Margin (MHz)	Result
Bottom	0.535	≥0.5	0.035	Complied
Middle	0.529	≥0.5	0.029	Complied
Тор	0.529	≥0.5	0.029	Complied

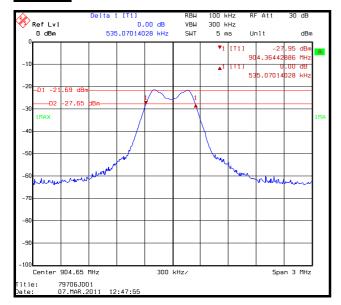
Note(s):

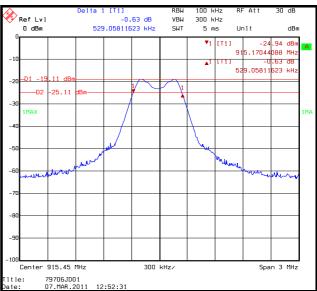
- 1. These measurements were performed radiated as the EUT has an integral antenna and does not have an external antenna port.
- 2. The measurements were taken with a RBW of 100 kHz as allowable under KDB 558074 "Measurement of Digital Transmission Systems Operating under Section 15.247 March 23, 2005".

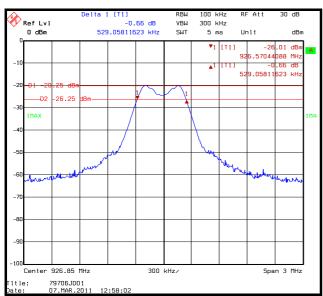
RFI Global Services Ltd Page 13 of 29

Transmitter 6 dB Bandwidth (continued)

Results:







Page 14 of 29 RFI Global Services Ltd

5.2.3. Transmitter 20 dB Bandwidth

Test Summary:

Test Engineer:	Crawford Lindsay	Test Date:	07 March 2011
Test Sample Serial No:	SN0008903		

FCC Part:	2.1049
Test Method Used:	As detailed in ANSI C63.10 Section 6.9.1 referencing KDB 558074 "Measurement of Digital Transmission Systems Operating under Section 15.247 March 23, 2005"

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	24

Results:

Channel	20 dB Bandwidth (kHz)
Bottom	757.515
Middle	751.503
Тор	757.515

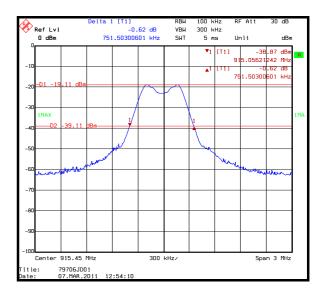
Note(s):

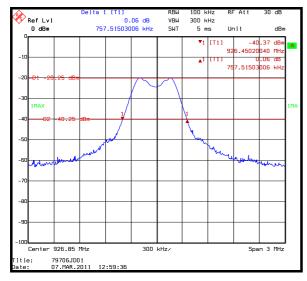
- 1. These measurements were performed radiated as the EUT has an integral antenna and does not have an external antenna port.
- 2. The measurements were taken with a RBW of 100 kHz as allowable under KDB 558074 "Measurement of Digital Transmission Systems Operating under Section 15.247 March 23, 2005".

RFI Global Services Ltd Page 15 of 29

Transmitter 20 dB Bandwidth (continued)







Page 16 of 29 RFI Global Services Ltd

VERSION 2.0

ISSUE DATE: 24 MARCH 2011

5.2.4. Transmitter Power Spectral Density

Test Summary:

Test Engineer:	Andrew Edwards	Test Date:	14 March 2011
Test Sample Serial No:	SN0008903		

FCC Part:	15.247(e)
Test Method Used:	As detailed in ANSI C63.10 Section 6.11.2

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	26

Results:

Channel	Output Power (dBm/3 kHz)	Limit (dBm/3 kHz)	Margin (dB)	Result
Bottom	-7.5	8.0	15.5	Complied
Middle	-4.0	8.0	12.0	Complied
Тор	-4.8	8.0	12.8	Complied

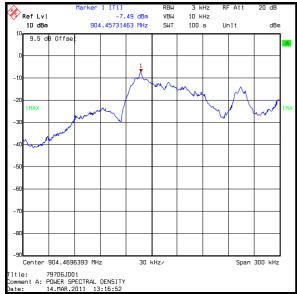
Note(s):

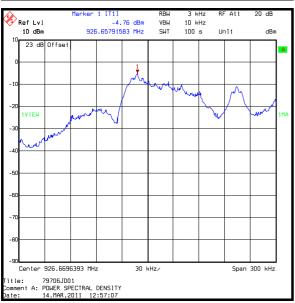
1. These tests were performed radiated as the EUT has an integral antenna and does not have an external antenna port.

RFI Global Services Ltd Page 17 of 29

Transmitter Power Spectral Density (continued)

Results:







Title: 79706JD01 Comment A: POWER SPECTRAL DENSITY Date: 14.MAR.2011 13:06:37

Page 18 of 29 RFI Global Services Ltd

VERSION 2.0 ISSUE DATE: 24 MARCH 2011

5.2.5. Transmitter Maximum Peak Output Power

Test Summary:

Test Engineer:	Crawford Lindsay	Test Date:	06 March 2011
Test Sample Serial No:	SN0008903		

FCC Part:	15.247(b)(3)
Test Method Used:	As detailed in ANSI C63.10 Section 6.10.2 and Sections 6.3 and 6.6 referencing ANSI C63.4 (see note below)

Environmental Conditions:

Temperature (°C):	26
Relative Humidity (%):	24

Results:

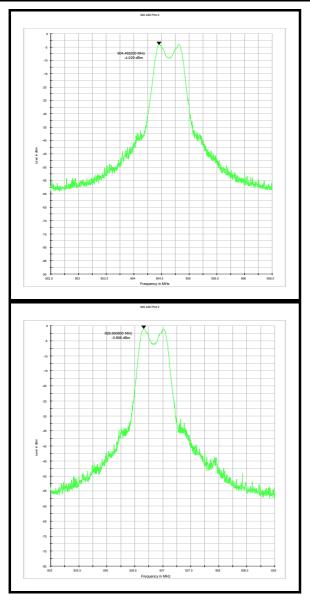
Channel	Conducted Peak Power (dBm)	Declared Antenna Gain (dBd)	ERP (dBm)	ERP to EIRP Conversion Factor	EIRP (dBm)	De Facto EIRP Limit (dBm)	Margin (dB)	Result
Bottom	-0.5	-3.5	-4.0	2.15	-1.85	36.0	37.8	Complied
Middle	2.4	-3.5	-1.1	2.15	1.05	36.0	34.9	Complied
Тор	2.6	-3.5	-0.9	2.15	1.25	36.0	34.7	Complied

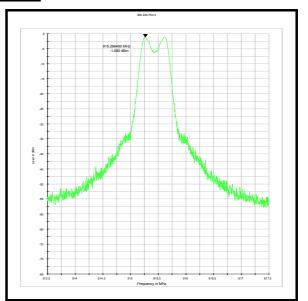
Note(s):

- 1. These tests were performed radiated; therefore the EUT antenna gain is encompassed in the final result and not measurable.
- 2. As the EUT has an integral antenna, in order to obtain the conducted peak power (into the antenna) the declared antenna gain was subtracted from the measured ERP.
- 3. Tests were performed using a combination of the conducted test method described in ANSI C63.10 Section 6.10.1 and the test methods for radiated emissions measurements described in Sections 6.3 and 6.6. The reason for this being that the measurements were performed radiated as the EUT has an integral antenna and does have not an external antenna port.

RFI Global Services Ltd Page 19 of 29

Transmitter Maximum Peak Output Power (continued)





Page 20 of 29 RFI Global Services Ltd

5.2.6. Transmitter Radiated Emissions

Test Summary:

Test Engineer:	Crawford Lindsay	Test Date:	06 March 2011
Test Sample Serial No:	SN0008903		

FCC Part:	15.247(d) & 15.209(a)
Test Method Used:	As detailed in ANSI C63.10 Sections 6.3 and 6.5 referencing ANSI C63.4
Frequency Range	30 MHz to 1000 MHz

Environmental Conditions:

Temperature (°C):	26
Relative Humidity (%):	24

Results: Quasi-Peak

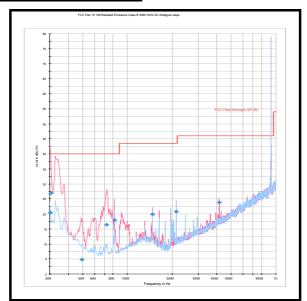
Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Result
30.154	Vertical	20.4	40.0	19.6	Complied
30.370	Vertical	26.9	40.0	13.1	Complied
49.189	Vertical	4.9	40.0	35.1	Complied
72.615	Vertical	16.4	40.0	23.6	Complied
81.907	Vertical	18.0	40.0	22.0	Complied
147.460	Vertical	19.9	43.5	23.6	Complied
212.990	Vertical	20.8	43.5	22.7	Complied
416.006	Vertical	23.9	46.0	22.1	Complied

Note(s):

- 1. The final measured value, for the given emission, in the table above incorporates the calibrated antenna factor and cable loss
- 2. The emission at 928.076 MHz shown on the 30 MHz to 1 GHz plot is the EUT fundamental.
- 3. The preliminary scans showed similar emission levels below 1 GHz, for each channel of operation. Therefore final radiated emissions measurements were performed with the EUT set to the top channel only.
- 4. All other emissions shown on the pre-scan plot were investigated and found to be ambient or >20 dB below the applicable limit or below the measurement system noise floor.
- 5. Measurements below 1 GHz were performed in a semi-anechoic chamber (RFI Asset Number K0001) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.

RFI Global Services Ltd Page 21 of 29

Transmitter Radiated Emissions (continued)



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying table.

Page 22 of 29 RFI Global Services Ltd

5.2.7. Transmitter Radiated Emissions

Test Summary:

Test Engineer:	Patrick Jones	Test Date:	14 March 2011
Test Sample Serial No:	DM0930493		

FCC Part:	15.247(d) & 15.209(a)
Test Method Used:	As detailed in ANSI C63.10 Sections 6.3 and 6.6 referencing ANSI C63.4
Frequency Range	1 GHz to 9.3 GHz

Environmental Conditions:

Temperature (°C):	22
Relative Humidity (%):	28

Results: Peak Bottom Channel

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
1808.907	Vertical	53.3	73.4*	20.1	Complied
5426.743	Vertical	46.0	74.0	28.0	Complied
7237.200	Vertical	44.8	73.4*	28.6	Complied
8141.784	Vertical	40.3	74.0	33.7	Complied
9044.541	Vertical	51.7	74.0	22.3	Complied

Results: Average Bottom Channel

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5426.743	Vertical	42.8	54.0	11.2	Complied
8141.784	Vertical	37.1	54.0	16.9	Complied
9044.561	Vertical	50.9	54.0	3.1	Complied

Results: Peak Middle Channel

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
1830.494	Vertical	58.6	76.3*	17.7	Complied
5493.677	Vertical	46.4	76.3*	29.9	Complied
7324.870	Vertical	45.0	74.0	29.0	Complied
8238.958	Vertical	39.3	74.0	34.7	Complied
9155.847	Vertical	52.0	74.0	22.0	Complied

RFI Global Services Ltd Page 23 of 29

Transmitter Radiated Emissions (continued)

Results: Average Middle Channel

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
7324.870	Vertical	40.0	54.0	14.0	Complied
8238.958	Vertical	35.7	54.0	18.3	Complied
9156.216	Vertical	51.2	54.0	2.8	Complied

Results: Peak Top Channel

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
1853.296	Vertical	58.4	76.5*	18.1	Complied
5559.950	Vertical	47.3	76.5*	29.2	Complied
7413.227	Vertical	45.2	74.0	28.8	Complied
8343.136	Vertical	42.2	74.0	31.8	Complied
9266.573	Vertical	53.2	76.5*	23.3	Complied

Results: Average Top Channel

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
7413.227	Vertical	39.9	54.0	14.1	Complied
8343.136	Vertical	35.2	54.0	18.8	Complied

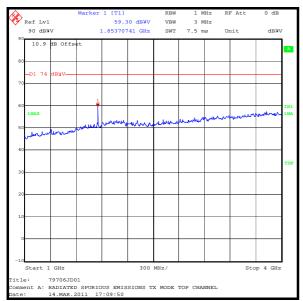
Note(s):

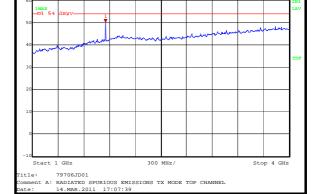
- 1. *-20 dBc limit.
- 2. The final measured value, for the given emission, in the table above incorporates the calibrated antenna factor and cable loss
- 3. All other emissions shown on the pre-scan plot were investigated and found to be ambient or >20 dB below the applicable limit or below the measurement system noise floor.
- 4. Pre-scans above 1 GHz were performed in a fully anechoic chamber (RFI Asset Number K0002) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres above the test chamber floor in the centre of the chamber turntable. All measurement antennas were placed at a fixed height of 1.5 metres above the test chamber floor, in line with the EUT. Final measurements above 1 GHz were performed in a semi-anechoic chamber (RFI Asset Number K0001) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.
- 5. All pre-scans were performed with a peak detector against average limits apart from measurements made in the range of 1 to 4GHz where pre-scans were performed with peak and average detectors and the applicable limit applied. This was due to the noise floor being close to the average limit when using a peak detector.

Page 24 of 29 RFI Global Services Ltd

dByv

Transmitter Radiated Emissions (continued)





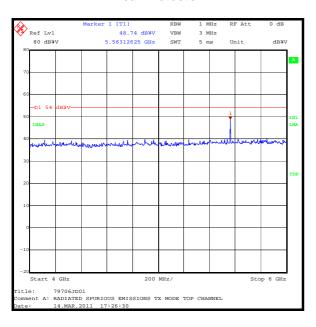
r 1 [T1] 50.19 dBWV 1.85370741 GHz

VBW

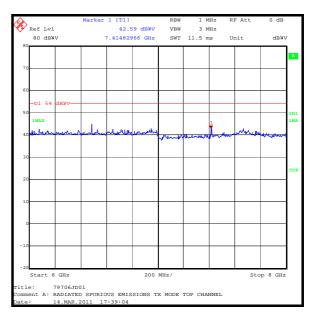
3 MHz 7.5 ms

Ref Lvl 90 dB¥V

Peak Detector

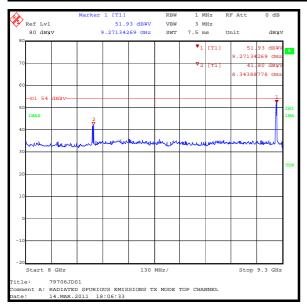






RFI Global Services Ltd Page 25 of 29

Transmitter Radiated Emissions (continued)



Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

Page 26 of 29 RFI Global Services Ltd

5.2.8. Transmitter Band Edge Radiated Emissions

Test Summary:

Test Engineer:	Andrew Edwards	Test Date:	14 March 2011
Test Sample Serial No:	SN0008903		

FCC Part:	15.247(d)
Test Method Used:	As detailed in ANSI C63.10 Section 6.9.2

Environmental Conditions:

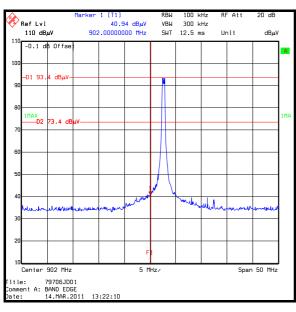
Temperature (°C):	24
Relative Humidity (%):	26

Results:

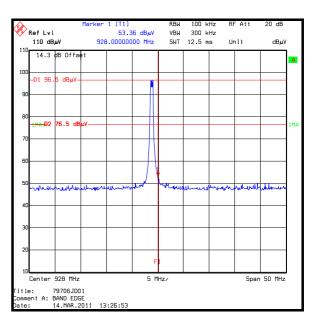
Frequency (MHz)	Peak Level (dBµV/m)	-20 dBc Limit (dBµV/m)	Margin (dB)	Result
902	40.9	73.4	32.5	Complied
928	53.4	76.5	23.1	Complied

Note(s):

1. The final measured value, for the given emission, in the table above incorporates the calibrated antenna factor and cable loss.



Lower Band Edge / Bottom Channel



Upper Band Edge / Top Channel

RFI Global Services Ltd Page 27 of 29

6. Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
AC Conducted Spurious Emissions	0.15 MHz to 30 MHz	95%	±3.25 dB
Radiated Maximum Peak Output Power	902 MHz to 928 MHz	95%	±2.94 dB
Spectral Power Density	902 MHz to 928 MHz	95%	±2.94 dB
6 dB Bandwidth	902 MHz to 928 MHz	95%	±0.92 ppm
20 dB Bandwidth	902 MHz to 928 MHz	95%	±0.92 ppm
Radiated Spurious Emissions	30 MHz to 10 GHz	95%	±2.94 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

Page 28 of 29 RFI Global Services Ltd

Appendix 1. Test Equipment Used

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval Months
A1069	LISN	Rohde & Schwarz	ESH3-Z5	837469/012	13 Apr 2011	12
A1396	Attenuator	Huber + Suhner	757987	6810.17.B	06 Jul 2011	12
A1534	Pre Amplifier	Hewlett Packard	8449B	3008A00405	06 Jun 2011	12
A1818	Antenna	EMCO	3115	00075692	05 Sep 2011	12
A253	Antenna	Flann Microwave	12240-20	128	05 Sep 2011	12
A254	Antenna	Flann Microwave	14240-20	139	05 Sep 2011	12
A255	Antenna	Flann Microwave	16240-20	519	05 Sep 2011	12
A288	Antenna	Chase	CBL6111A	1589	05 Sep 2011	12
A553	Antenna	Chase	CBL6111A	1593	16 Mar 2011	12
G0543	Amplifier	Sonoma Instrument	310N	230801	30 Jun 2011	12
K0001	5m Semi-Anechoic Chamber	Rainford EMC	N/A	N/A	25 Apr 2011	12
K0002	3m RSE Chamber	Rainford EMC	N/A	N/A	05 Sep 2011	12
L1001	Test Receiver	Rohde & Schwarz	ESU26	100239	16 Mar 2011	12
M1124	Test Receiver	Rohde & Schwarz	ESI26	100046K	22 Apr 2011	12
M1263	Test Receiver	Rohde & Schwarz	ESIB7	100265	28 Jun 2011	12
M127	Spectrum Analyser	Rohde & Schwarz	FSEB 30	842 659/016	15 Sep 2011	12

NB In accordance with UKAS requirements all the measurement equipment is on a calibration schedule.

RFI Global Services Ltd Page 29 of 29