



Test report No:

NIE: 51929RRF.019A1

Partial Test Report

USA FCC Part 15.247, 15.209 CANADA RSS-247, RSS-Gen

Radio Frequency Devices. Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz.

Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices.

General Requirements and Information for the Certification of Radio Apparatus.

(*) Identification of item tested	Headunit with radio and Bluetooth
(*) Trademark	Panasonic
(*) Model and /or type reference	MIB3E_MQB37w_BT
Other identification of the product	FCC ID: WUQ-MIB3VBT IC: 216R-MIB3VBT PN: 5H0.035.869 HW version: X85 SW version: X665
(*) Features	Bluetooth, FM, AM, DAB, USB.
Applicant	PANASONIC AUTOMOTIVE SYSTEMS EUROPE GMBH Robert Bosch Str. 27-29 – 63225 Langen - Germany
Test method requested, standard	USA FCC Part 15.247 10-1-18 Edition: Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz. -Emission limitations radiated (Transmitter). USA FCC Part 15.209 10-1-18 Edition: Radiated emission limits; general requirements. CANADA RSS-247 Issue 2 (February 2017). -Emission limitations radiated (Transmitter). CANADA RSS-Gen Issue 5 (April 2018). Guidance for Performing Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid Systems Devices Operating Under Section 15.247 of the FCC Rules. 558074 D01 Meas Guidance v05r02 dated April 2, 2019. ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

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Approved by (name / position & signature)

Jose Carlos Luque
RF Lab. Supervise

Date of issue

2019-09-18

Report template No

FDT08_22

(*) "Data provided by the client"

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Competences and guarantees

DEKRA Testing and Certification S.A.U. is a testing laboratory accredited by the National Accreditation Body (ENAC -Entidad Nacional de Acreditación), to perform the tests indicated in the Certificate No. 51/LE 147.

DEKRA Testing and Certification is a FCC-recognized accredited testing laboratory with appropriate scope of accreditation that include testing performed in this test report.

DEKRA Testing and Certification is an ISED-recognized accredited testing laboratory with appropriate scope of accreditation that include testing performed in this test report

In order to assure the traceability to other national and international laboratories, DEKRA Testing and Certification S.A.U. has a calibration and maintenance program for its measurement equipment.

DEKRA Testing and Certification S.A.U. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Testing and Certification S.A.U. at the time of performance of the test.

DEKRA Testing and Certification S.A.U. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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General conditions

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- 4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Testing and Certification S.A.U. and the Accreditation Bodies.

Uncertainty

Uncertainty (factor k=2) was calculated according to the DEKRA Testing and Certification S.A.U. internal document PODT000.

Data provided by the client

The following data has been provided by the client:

- Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").
- 2. The sample consists of an Automotive head unit to be installed in cars with the following features: Bluetooth, FM, AM, DAB, USB.

DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

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Usage of samples

Samples undergoing test have been selected by: The client.

Sample S/01 is composed of the following elements:

Control Nº	Description	Model	Serial N⁰	Date of reception
51929B/377	Head unit with radio and Bluetooth	MIB3E_MQB37w_BT	PM6- 00108.01.19413F0054	2019/02/21
51292B/538	Harness			2019/06/05

Sample S/01 has undergone the following test(s): All RADIATED tests indicated in Appendix A.

Test sample description

Ports:	Cable							
		name and ription	Specifie d max length [m]		ached ng test	Shiel	ded	Coupled to patient ⁽³⁾
]	
Rated power supply:	Volta	ge and Frequency	,		Refe	erence	poles	3
				L1	L2	L3	N	l PE
		DC: 12 Vdc						
Rated Power:								
Clock frequencies:								
Other parameters:								
Software version:	X665							
Hardware version:	X85							
Dimensions in cm (W x H x D):								
Mounting position:		Other: Installed i	n cars					
Modules/parts:	Modu	ile/parts of test iter	m		Тур	ре	Ma	nufacturer
Accessories (not part of the test item)	Desc	ription			Туре		Mar	ufacturer
100111/								

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Documents as provided by the applicant:	Description	File name	Issue date
фрисант			

⁽³⁾ Only for Medical Equipment

Identification of the client

PANASONIC AUTOMOTIVE SYSTEMS EUROPE GMBH

Robert Bosch Str. 27-29 - 63225 Langen - Germany

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2019-07-15
Date (finish)	2019-07-16

Document history

Report number	Date	Description
51929RRF.019	2019-08-14	First release
51929RRF.019A1	2019-09-18	On the cover sheet and test sample description table, the Software Version is modified to the correct. The correct identifier is: - X665

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Lomporaturo	Min. = 15 °C Max. = 35 °C
Relative hilmidity	Min. = 20 % Max. = 75 %

In the semianechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %



Remarks and comments

The tests have been performed by the technical personnel: Ignacio Cabra and José Gabriel Pendón.

Used instrumentation:

Radiated Measurements:

		Last Calibration	Due Calibration
1.	Semianechoic Absorber Lined Chamber ETS LINDGREN FACT 3 200 STP	N.A.	N.A.
2.	EMI Test Receiver ROHDE AND SCHWARZ ESR7	2018/10	2020/10
3.	RF Pre-amplifier 40 dB, 10 MHz-6 GHz BONN ELEKTRONIK BLNA 0160-01N	2019/02	2020/08
4.	Biconical/Log Antenna ETS LINDGREN 3142E	2017/09	2020/09
5.	Signal and Spectrum Analyzer ROHDE AND SCHWARZ FSV40	2018/02	2020/02
6.	RF Pre-amplifier 30 dB, 1-18GHz BONN ELEKTRONIK BLMA 0118-3A	2019/04	2020/04
7.	RF Pre-amplifier, 30 dB, 18-40GHz BONN ELEKTRONIK BLMA 1840-1M	2019/02	2021/02
8.	Broadband Horn antenna 1-18 GHz SCHWARZBECK MESS-ELEKTRONIK BBHA 9120 D	2018/01	2021/01
9.	Broadband Horn antenna 18-40 GHz SCHWARZBECK MESS-ELEKTRONIK BBHA 9170	2018/07	2021/07
10.	DC Power Supply Keysight Technologies U8002A		
11.	Digital multimeter FLUKE 179	2019/06	2020/06

Testing verdicts

Not applicable:	N/A
Pass:	Р
Fail:	F
Not measured:	N/M

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Summary

1. Bluetooth EDR

FCC PART 15 PAR	RAGRAPH / RSS-247		
Requirement – Test c	ase	Verdict	Remark
Section 15.247 Subclause (a) (1) / RSS-247 5.1. (b)	20 dB Bandwidth and Carrier frequency separation	N/M	(1)
Section 15.247 Subclause (a)(1)(iii) / RSS-247 Clause	5.1 (d) Number of hopping channels	N/M	(1)
Section 15.247 Subclause (a)(1)(iii) / RSS-247 Clause	5.1 (d) Time of occupancy (Dwell Time)	N/M	(1)
Section 15.247 Subclause (b) / RSS-247 5.4. (b)	Maximum peak output power and antenna gain	N/M	(1)
Section 15.247 Subclause (d) / RSS-247 5.5.	Conducted Band-edge emissions compliance (Transmitter)	N/M	(1)
Section 15.247 Subclause (d) / RSS-247 5.5	Emission limitations conducted (Transmitter)	N/A	
Section 15.247 Subclause (d) / RSS-247 5.5.	Emission limitations radiated (Transmitter)	Р	
Supplementary information and remarks:			
(1) Test not requested.			

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Appendix A: Test results. Bluetooth EDR (GFSK, Pi/4 DQPSK, 8DPSK)

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TEST CONDITIONS

POWER SUPPLY (V):

V nonimal: 12 Vdc.

Type of Power Supply: External power supply (Battery).

Type of Antenna: Internal antenna.

Declared Gain for antenna RF (maximum): 1.3 dBi

TEST FREQUENCIES:

Low Channel: 2402 MHz Middle Channel: 2441 MHz High Channel: 2480 MHz

RADIATED MEASUREMENTS

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Bilog antenna for the range between 30 MHz to 1000 MHz) is situated at a distance of 3 m and at a distance of 1m for the frequency range 1 GHz-26 GHz (1 GHz-18 GHz Double ridge horn antenna and 18 GHz-40 GHz horn antenna).

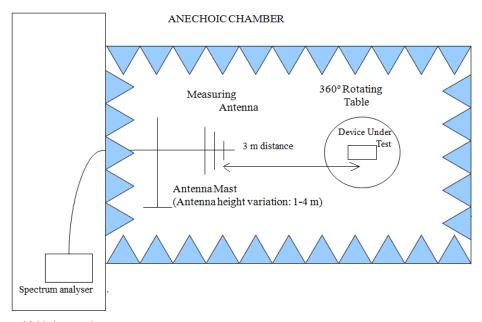
For radiated emissions in the range 1 GHz-26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height (Bilog antenna and Double ridge horn antenna) was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

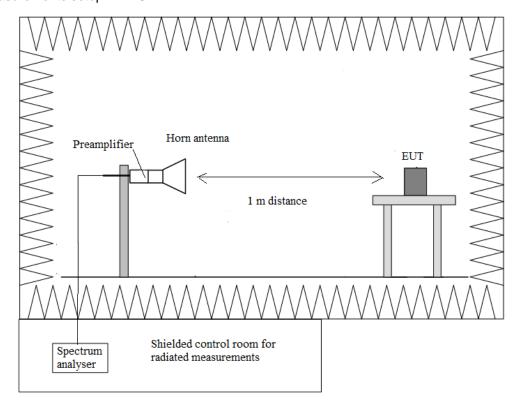


Radiated measurements setup from 30 MHz to 1 GHz:



Shielded Control Room For Radiated Measurements

Radiated measurements setup f > 1 GHz:





FCC Section 15.247 Subclause (d) / RSS-247 Clause 5.5. Emission limitations radiated (Transmitter)

SPECIFICATION:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)/RSS-Gen):

Frequency Range (MHz)	Field strength (μV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 10000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RSS-247: Attenuation below the general field strength limits specified in RSS-Gen is not required.

RESULTS:

The situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

All tests were performed in a semi-anechoic chamber at a distance of 3 m for the frequency range 30 MHz-1000 MHz and at distance of 1m for the frequency range 1 GHz-26 GHz.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

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Frequency range 30 MHz - 1 GHz:

Note: The spurious emissions below 1 GHz do not depend on either the operating channel or the modulation mode selected in the EUT.

Spurious levels operating (radiated) closest to limit.

Spurious frequency (MHz)	Detector	Emission Level (dBµV/m)	Polarization	Measurement Uncertainty (dB)
450.026	Quasi peak	28.6	Н	<± 2.07
525.007	Quasi peak	35.4	V	<± 2.07
550.033	Quasi peak	33.8	V	<± 2.07
574.995	Quasi peak	31.4	V	<± 2.07
792.307	Quasi peak	39.6	Н	<± 2.07
799.291	Quasi peak	36.5	V	<± 2.07
800.196	Quasi peak	40.7	Н	<± 2.07

Frequency range 1 - 26 GHz:

The results in the next tables show the maximum measured levels in the 1-26 GHz range including the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

Spurious signals with peak levels above the average limit (54 dB μ V/m at 3 m) are measured with average detector for checking compliance with the average limit.

Modulation: GFSK (DH5)

1. CHANNEL: LOWEST (2402 MHz).

Spurious frequency (GHz)	Detector	Emission Level (dBµV/m)	Polarization	Measurement Uncertainty (dB)
1.06000	Peak	54.39	V	<± 4.88
1.96990	Average	38.27	V	<± 4.88
2.23737	Peak	55.41	V	<± 4.88
2.23/3/	Average	51.57	V	<± 4.88
2.38881	Peak	59.83	Н	<± 4.88
2.30001	Average	42.22		<± 4.88
3.97817	Peak	52.64	V	<± 4.88
4.19817	Peak	40.65	Н	<± 4.88
4.40957	Peak	45.84	Н	<± 4.88
4.47480	Peak	43.22	V	<± 4.88
4.78710	Peak	41.48	Н	<± 4.88
5.57997	Peak	45.63	Н	<± 4.88
6.71257	Peak	45.27	V	<± 4.88
7.16897	Peak	48.16	V	<± 4.88



2. CHANNEL: MIDDLE (2441 MHz).

Spurious frequency (GHz)	Detector	Emission Level (dBµV/m)	Polarization	Measurement Uncertainty (dB)
1.96330	Peak	53.54	V	<± 4.88
2.00963	Peak	52.62	Н	<± 4.88
2.38190	Peak	59.76	Н	<± 4.88
2.36190	Average	42.05	П	<± 4.88
3.97790	Peak	52.28	V	<± 4.88
4.40957	Peak	46.14	Н	<± 4.88
5.55103	Peak	43.85	V	<± 4.88
5.58043	Peak	45.30	Н	<± 4.88
7.15217	Peak	46.60	Н	<± 4.88
7.19417	Peak	47.50	V	<± 4.88

3. CHANNEL: HIGHEST (2480 MHz).

Spurious frequency (GHz)	Detector	Emission Level (dBµV/m)	Polarization	Measurement Uncertainty (dB)
1.06007	Peak	54.61	V	<± 4.88
1.96897	Average	39.62	V	<± 4.88
2.15143	Peak	53.42	V	<± 4.88
2.38915	Peak	59.43	Н	<± 4.88
2.30913	Average	42.15	П	<± 4.88
3.96390	Peak	52.86	V	<± 4.88
3.98163	Peak	52.16	Н	<± 4.88
4.22290	Peak	45.66	Н	<± 4.88
4.30270	Peak	45.16	V	<± 4.88
4.40957	Peak	45.66	Н	<± 4.88
5.57069	Peak	47.44	Н	<± 4.88
6.45450	Peak	44.51	V	<± 4.88
7.18390	Peak	46.64	V	<± 4.88

Verdict: PASS



Modulation Π/4-DQPSK (2DH5)

1. CHANNEL: LOWEST (2402 MHz).

Spurious frequency (GHz)	Detector	Emission Level (dBµV/m)	Polarization	Measurement Uncertainty (dB)
_ ` ′	Dook	E2 0E	V	` '
1.96637	Peak	53.05	V	<± 4.88
2.06343	Peak	52.68	Н	<± 4.88
2.37952	Peak	59.67	Н	<± 4.88
2.37932	Average	42.03	17	<± 4.88
4.00077	Peak	50.10	V	<± 4.88
4.40957	Peak	46.06	Н	<± 4.88
4.78290	Peak	41.87	Н	<± 4.88
5.55290	Peak	43.74	Н	<± 4.88
5.57763	Peak	44.70	V	<± 4.88
7.15917	Peak	47.48	V	<± 4.88

2. CHANNEL: MIDDLE (2441 MHz).

Spurious frequency (GHz)	Detector	Emission Level (dBµV/m)	Polarization	Measurement Uncertainty (dB)
2.14337	Peak	53.11	Н	<± 4.88
2.38124	Peak	58.95	Н	<± 4.88
2.30124	Average	43.47	П	<± 4.88
3.97510	Peak	52.47	Н	<± 4.88
4.22290	Peak	42.17	V	<± 4.88
4.40957	Peak	45.80	Н	<± 4.88
4.77077	Peak	42.99	Н	<± 4.88
5.57997	Peak	43.92	V	<± 4.88

3. CHANNEL: HIGHEST (2480 MHz).

Spurious frequency (GHz)	Detector	Emission Level (dBµV/m)	Polarization	Measurement Uncertainty (dB)
1.96823	Peak	53.05	V	<± 4.88
2.37601	Peak	59.26	н	<± 4.88
2.37601	Average	41.97	П	<± 4.88
3.54250	Peak	36.23	Η	<± 4.88
3.61390	Peak	35.24	Η	<± 4.88
3.96250	Peak	50.67	Η	<± 4.88
3.98443	Peak	51.10	V	<± 4.88
4.40957	Peak	45.72	Н	<± 4.88
4.75957	Peak	44.20	Н	<± 4.88

Verdict: PASS

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Modulation: 8-DPSK (3DH5)

1. CHANNEL: LOWEST (2402 MHz).

Spurious frequency (GHz)	Detector	Emission Level (dBµV/m)	Polarization	Measurement Uncertainty (dB)
1.96877	Peak	52.92	V	<± 4.88
2.37639	Peak	59.87	Н	<± 4.88
2.37039	Average	42.24	П	<± 4.88
3.52757	Peak	35.98	V	<± 4.88
3.97510	Peak	53.76	V	<± 4.88
4.40957	Peak	45.26	Н	<± 4.88

2. CHANNEL: MIDDLE (2441 MHz).

Spurious frequency (GHz)	Detector	Emission Level (dBµV/m)	Polarization	Measurement Uncertainty (dB)
2.38154	Peak	59.33	ы	<± 4.88
2.30134	Average	41.99	П	<± 4.88
3.96810	Peak	50.95	Н	<± 4.88
3.98630	Peak	52.29	V	<± 4.88
4.40957	Peak	45.83	Н	<± 4.88
4.76723	Peak	44.43	Н	<± 4.88

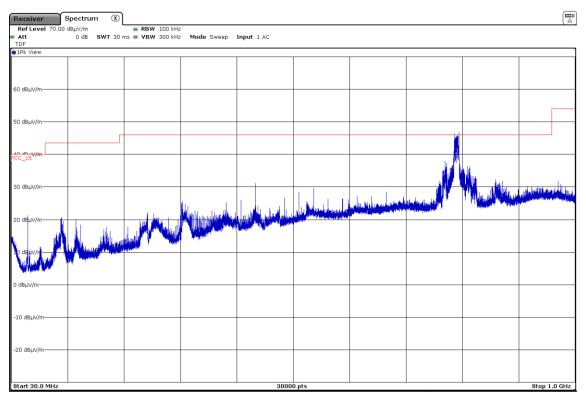
3. CHANNEL: HIGHEST (2480 MHz).

Spurious frequency (GHz)	Detector	Emission Level (dBµV/m)	Polarization	Measurement Uncertainty (dB)
2.37545	Peak	59.09	Н	<± 4.88
2.37545	Average	42.32	П	<± 4.88
3.97463	Peak	52.61	Н	<± 4.88
4.40957	Peak	45.18	Н	<± 4.88
5.60283	Peak	45.19	V	<± 4.88

Verdict: PASS



FREQUENCY RANGE 30 MHz - 1 GHz:



(This plot is valid for all three channels and all modulation modes).

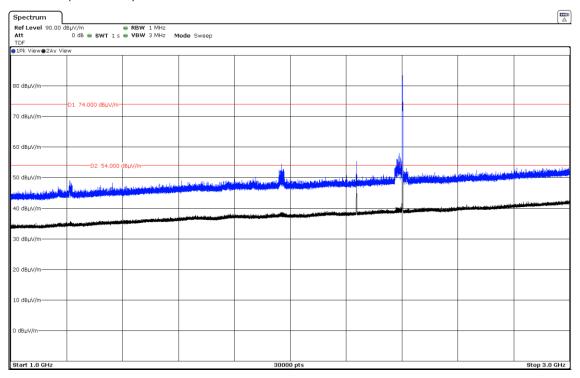
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FREQUENCY RANGE 1 - 3 GHz:

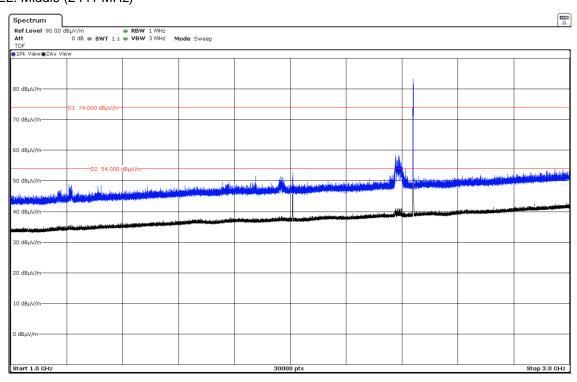
Modulation: GFSK (DH5)

CHANNEL: Lowest (2402 MHz)



The peak above the limit is the carrier frequency.

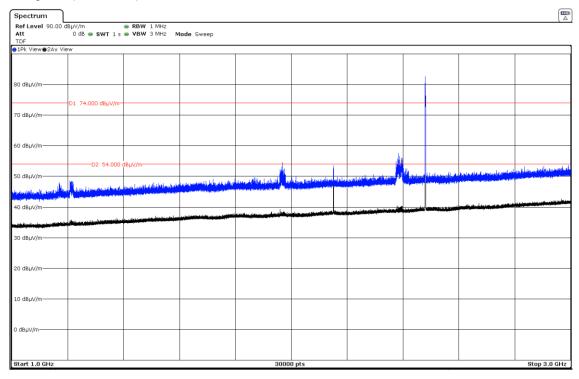
CHANNEL: Middle (2441 MHz)



The peak above the limit is the carrier frequency.

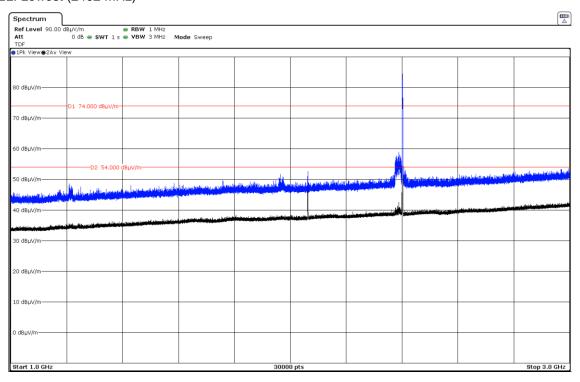


CHANNEL: Highest (2480 MHz)



The peak above the limit is the carrier frequency.

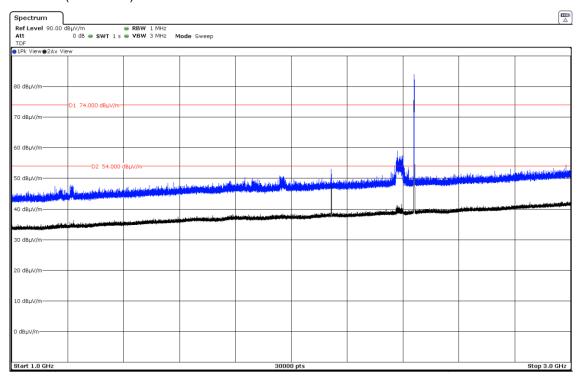
Modulation: Π/4-DQPSK (2DH5) CHANNEL: Lowest (2402 MHz)



The peak above the limit is the carrier frequency.

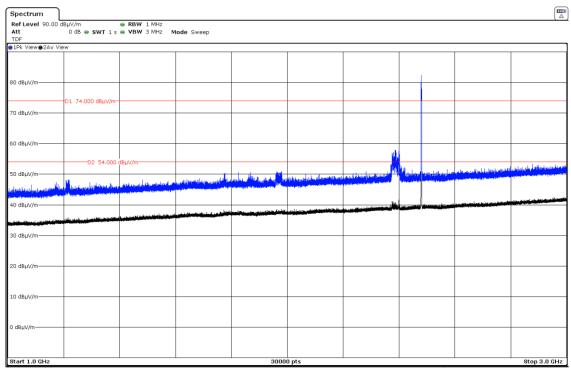


CHANNEL: Middle (2441 MHz)



The peak above the limit is the carrier frequency.

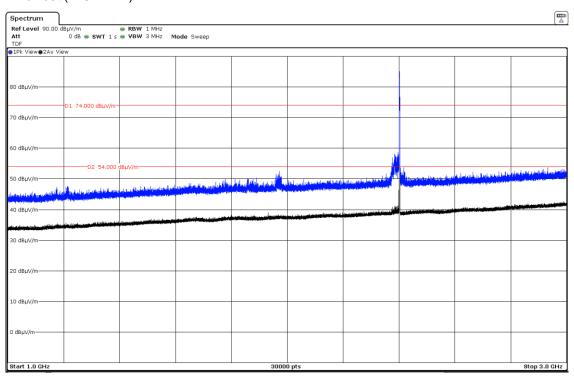
CHANNEL: Highest (2480 MHz)



The peak above the limit is the carrier frequency.

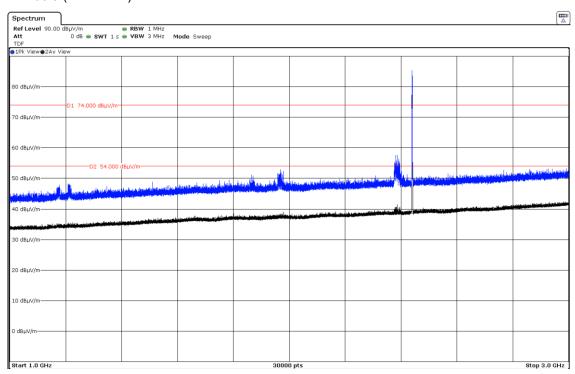


Modulation: 8-DPSK (3DH5) CHANNEL: Lowest (2402 MHz)



The peak above the limit is the carrier frequency.

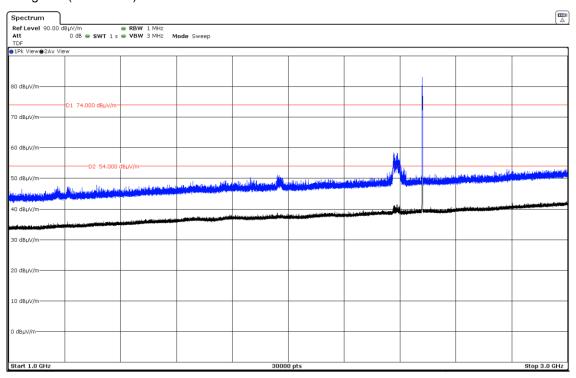
CHANNEL: Middle (2441 MHz)



The peak above the limit is the carrier frequency.



CHANNEL: Highest (2480 MHz)



The peak above the limit is the carrier frequency.

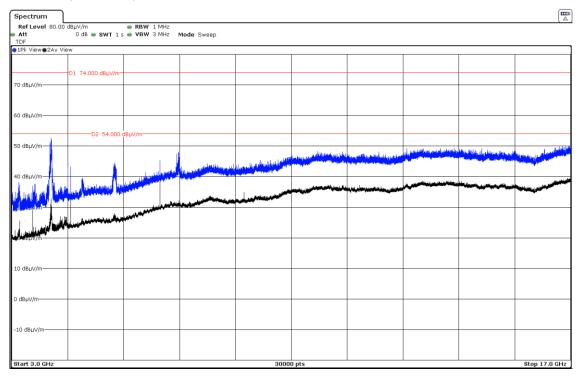
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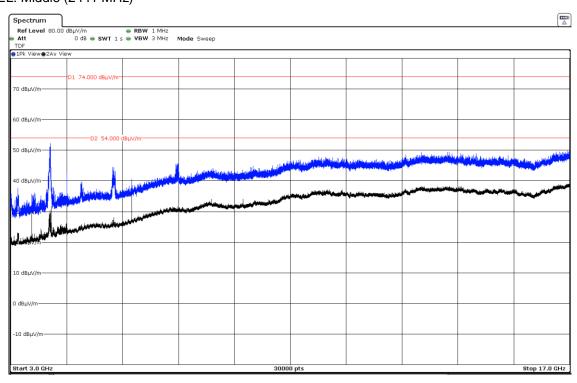
FREQUENCY RANGE 3 - 17 GHz:

Modulation: GFSK (DH5)

CHANNEL: Lowest (2402 MHz)

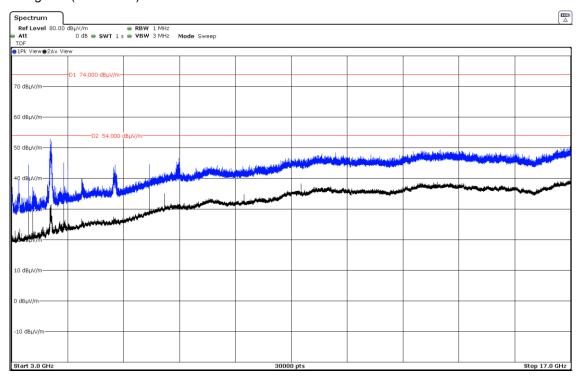


CHANNEL: Middle (2441 MHz)

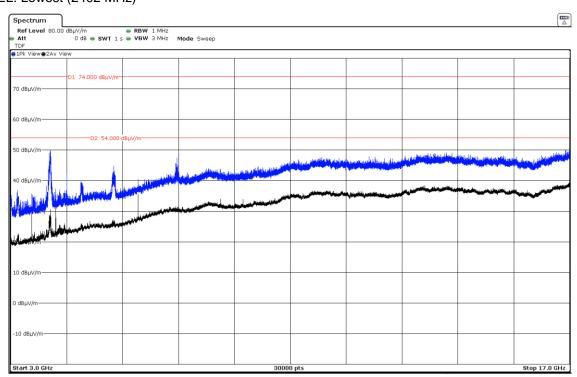




CHANNEL: Highest (2480 MHz)

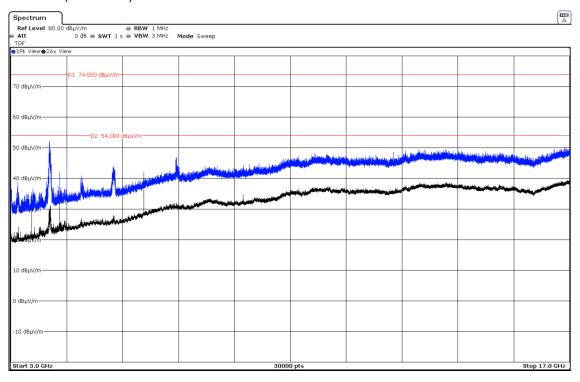


Modulation: Π/4-DQPSK (2DH5) CHANNEL: Lowest (2402 MHz)

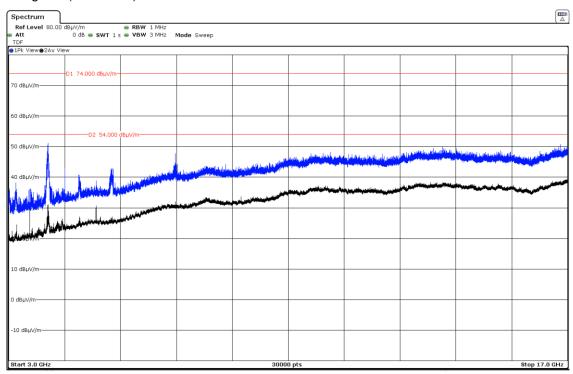




CHANNEL: Middle (2441 MHz)

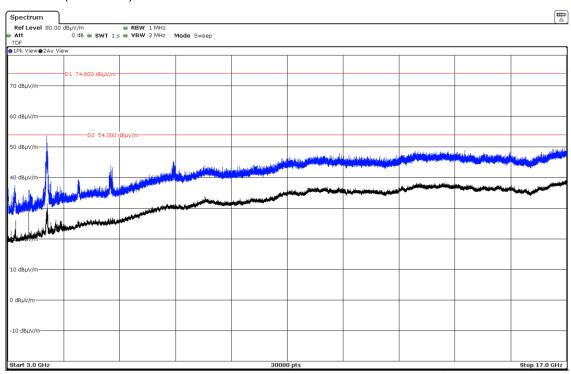


CHANNEL: Highest (2480 MHz)

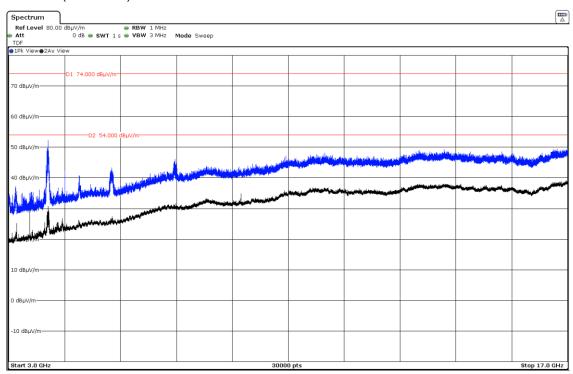




Modulation: 8-DPSK (3DH5) CHANNEL: Lowest (2402 MHz)



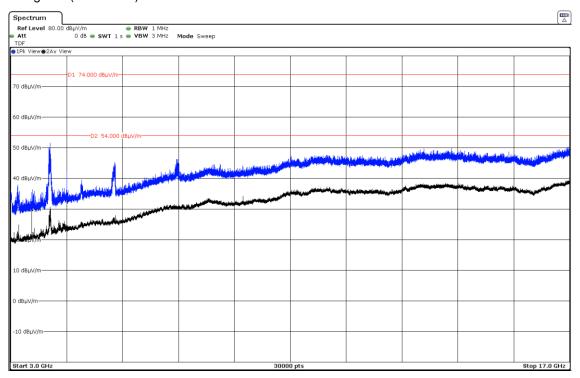
CHANNEL: Middle (2441 MHz)



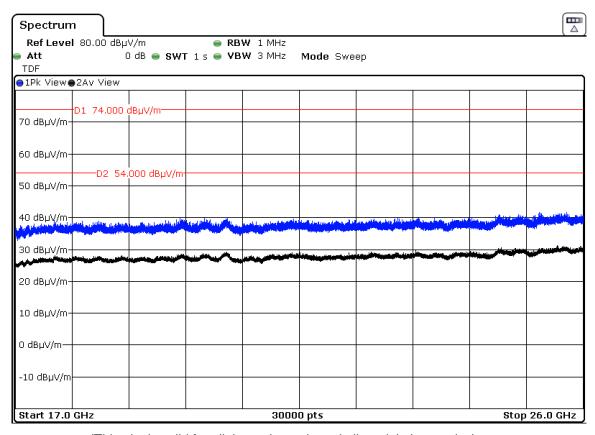
c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456



CHANNEL: Highest (2480 MHz)



FREQUENCY RANGE 17 - 26 GHz:



(This plot is valid for all three channels and all modulation modes).

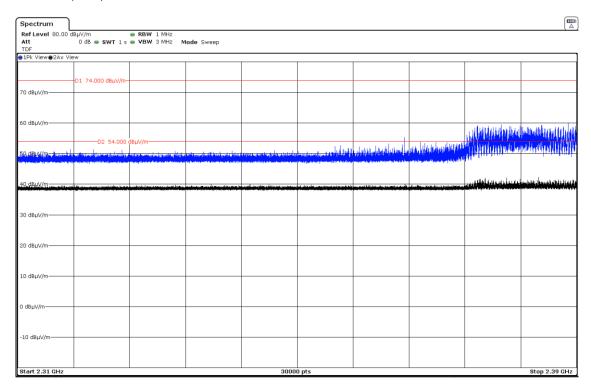
C.I.F. A29 507 456



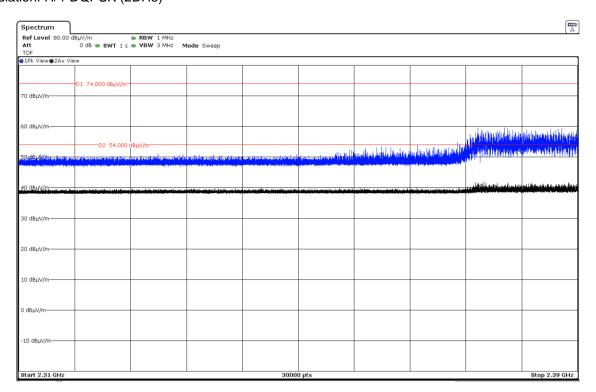
FREQUENCY RANGE 2.31-2.39 GHz (Restricted Band 1):

CHANNEL: Lowest (2402 MHz)

Modulation: GFSK (DH5)

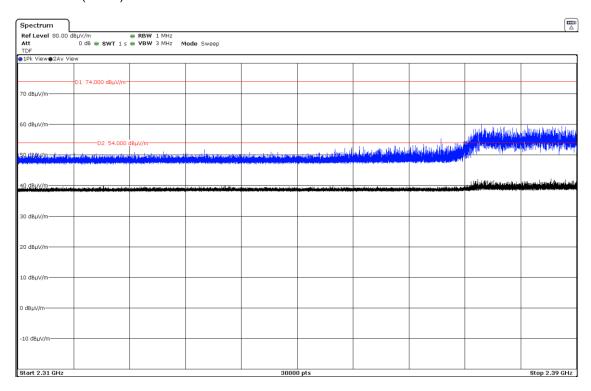


Modulation: Π/4-DQPSK (2DH5)





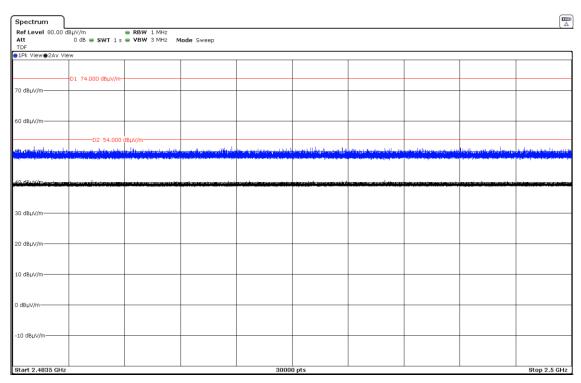
Modulation: 8-DPSK (3DH5)



FREQUENCY RANGE 2.4835-2.5 GHz (Restricted Band 2):

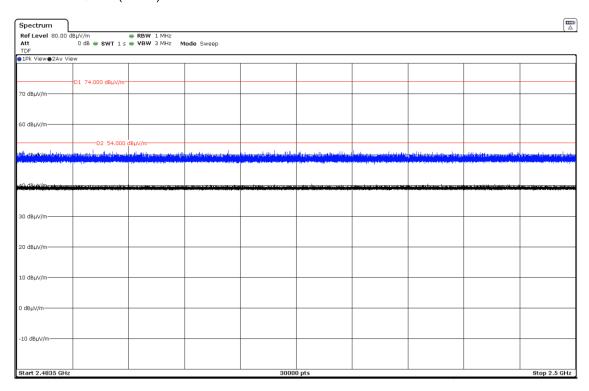
CHANNEL: Highest (2480 MHz)

Modulation: GFSK (DH5)





Modulation: Π/4-DQPSK (2DH5)



Modulation: 8-DPSK (3DH5)

