

RR051-19-103006-2-A Ed. 0

Certification Radio test report

According to the standard:
CFR 47 FCC PART 15

Equipment under test:
NEXT MOTION REVOLUTION

FCC ID: 2AUI7-NMREV1

Company:
NEXT MOTION SAS

Distribution: Mr ELARD

(Company: NEXT MOTION SAS)

Number of pages: 26 with 4 appendixes

Ed.	Date	Modified Page(s)	Technical Verification and Quality Approval	
			Name and Function	Visa
0	4-Mar-21	Creation	M. DUMESNIL, Radio Technical Manager	

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Siège Social : Emitech - 3, rue des Coudriers - Z.A. de l'Observatoire - 78180 MONTIGNY LE BX - France
Siret : 344 545 645 00022 - Tél. : 33 (0)1 30 57 55 55 - Fax : 33 (0)1 30 43 74 48 - E-mail : contact@emitech.fr - URL : www.emitech.fr
S.A. au capital de 1 560 000 € - R.C.S. VERSAILLES 344 545 645 - APE 7112B

DESIGNATION OF PRODUCT: NEXT MOTION REVOLUTION

Serial number (S/N): BD Address: E1:5C:C9:11:64:00

Reference / model (P/N): NEXT MOTION REVOLUTION

Software version: V4.0 R190122.01

Hardware version: V3.0 R170712

MANUFACTURER: NEXT MOTION SAS

COMPANY SUBMITTING THE PRODUCT:

Company: NEXT MOTION SAS

Address: 56 AVENUE SAINTE-MARIE
94160 ST MANDE
FRANCE

Responsible: Mr ELARD

DATES OF TEST: From 18-Jul-19 to 22-Jul-19

TESTING LOCATION: EMITECH ANGERS laboratory at JUIGNE SUR LOIRE (49) FRANCE
FCC Accredited under US-EU MRA Designation Number: FR0009
Test Firm Registration Number: 873677

TESTED BY: T. LEDRESSEUR

VISA:



WRITTEN BY: T. LEDRESSEUR

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1. INTRODUCTION

This report presents the results of radio test carried out on the following radio equipment: **NEXT MOTION REVOLUTION**, in accordance with normative reference.

The product integrates a BLE function and this test report concern only the measure for certification of this function.

2. PRODUCT DESCRIPTION

Class: B

Utilization: Residential use

Antenna type and gain: 0 dBi / PCB antenna

Operating frequency range: From 2402 MHz to 2480 MHz

Number of channels: 37 + 3 advertising

Channel spacing: 2 MHz

Modulation: GFSK

Power source: 3.7 Vdc internal battery rechargeable by a power bank only

Power level, frequency range and channels characteristics are not user adjustable.
The details pictures of the product and the circuit boards are joined with this file.

3. NORMATIVE REFERENCE

The standards and testing methods related throughout this report are those listed below. They are applied on the whole test report even though the extensions (version, date and amendment) are not repeated.

CFR 47 FCC Part 15 (2019)	Radio Frequency Devices
ANSI C63.10	2013 Procedures for Compliance Testing of Unlicensed Wireless Devices.
558074 D01 DTS v05 r02	Guidance for compliance measurements on digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules.
447498 D01 General RF Exposure Guidance v06	RF Exposure procedures and equipment authorization policies for mobile and portable equipment

4. TEST METHODOLOGY

Radio performance tests procedures given in CFR 47 part 15:

Subpart C – Intentional Radiators

- Paragraph 203: Antenna requirement
- Paragraph 205: Restricted bands of operation
- Paragraph 207: Conducted limits
- Paragraph 209: Radiated emission limits; general requirements
- Paragraph 212: Modular transmitter
- Paragraph 215: Additional provisions to the general radiated emission limitations
- Paragraph 247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz

5. TEST EQUIPMENT CALIBRATION DATES

Emitech Number	Model	Type	Last calibration	Calibration interval (years)	Next calibration due (1)
0	BAT-EMC V3.17.0.25	Software	/	/	/
1406	EMCO 6502	Loop antenna	17/04/2019	1	16/04/2020
7190	R&S HL223	Antenna	08/03/2019	3	07/03/2022
7240	Emco 3110	Biconical antenna	08/03/2019	3	07/03/2022
7299	Microtronics BRM50702	Reject band filter	13/11/2017	2	13/11/2019
8704	LUCIX Corp S180265L3201 LNA	Low-noise amplifier	09/08/2018	1	09/08/2019
8750	La Crosse Technology WS-9232	Meteo station	24/09/2018	2	23/09/2020
8786	ETS Lindgren 3160-09	Antenna	24/05/2019	3	24/05/2022
8896	ACQUISYS GPS8	Satellite synchronized frequency standard	/	/	/
8974	STORM MICROWAE k-20cm	cable	19/11/2017	2	19/11/2019
8975	STORM MICROWAE k-20cm	cable	19/11/2017	2	19/11/2019
10730	Mini-circuit ZFL-1000LN	Low-noise amplifier	14/03/2019	1	13/03/2020
10759	SIDT Cage 3	Anechoic chamber	/	/	/
10771	EMCO 3117	Antenna	23/11/2016	3	23/11/2019
10789	MATURO	Turntable and mat controller NCD	/	/	/
11592	R&S NRV-Z86	Power Sensor	10/08/2018	1	10/08/2019
12590	LUCIX Corp S005180M3201	Low-noise amplifier	27/09/2018	1	27/09/2019
12912	Huber + Suhner N-5m	cable	29/03/2018	2	28/03/2020
14302	SUCOFLEX N-1m	cable	14/12/2018	2	13/12/2020
14303	SUCOFLEX N-2m	cable	14/12/2018	2	13/12/2020
14304	SUCOFLEX N-2.5m	cable	14/12/2018	2	13/12/2020
14831	Fluke 177	Multimeter	12/01/2018	2	12/01/2020
15666	R&S FSV40	Spectrum Analyzer	19/07/2018	2	18/07/2020
-	R&S Power Viewer Plus V5.9	Software	/	/	/

(1) With a tolerance of 2 months for all equipments.

6. TESTS RESULTS SUMMARY

Test procedure	Description of test	Respected criteria?				Comment
		Yes	No	NAp	NAs	
FCC Part 15.203	ANTENNA REQUIREMENT	X				Note 1
FCC Part 15.205	RESTRICTED BANDS OF OPERATION	X				
FCC Part 15.207	CONDUCTED LIMITS			X		
FCC Part 15.209	RADIATED EMISSION LIMITS; general requirements	X				Note 2
FCC Part 15.212	MODULAR TRANSMITTERS			X		
FCC part 15.215	ADDITIONAL PROVISIONS TO THE GENERAL RADIATED EMISSION LIMITATIONS					
	(a) Alternative to general radiated emission limits	X				
	(b) Unwanted emissions outside of §15.247 frequency bands	X				Note 3
	(c) 20 dB bandwidth and band-edge compliance	X				
FCC Part 15.247	OPERATION WITHIN THE BANDS 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz					
	(a) (1) Hopping systems			X		
	(a) (2) Digital modulation techniques	X				Note 5
	(b) Maximum peak output power	X				Note 4
	(c) Operation with directional antenna gains > 6 dBi			X		
	(d) Intentional radiator	X				
	(e) Peak power spectral density	X				Note 6
	(f) Hybrid system			X		
	(g) Frequency hopping requirements			X		
	(h) Frequency hopping intelligence			X		
	(i) RF exposure compliance	X				

NAp: Not Applicable

NAs: Not Asked

Note 1: Integral without connector.

Note 2: See FCC part 15.247 (d).

Note 3: See FCC part 15.209. Unwanted emissions levels are all below the fundamental emission field strength level.

Note 4: Conducted measurement is not possible (integral antenna), so we used the radiated method in open field.

Note 5: The minimum 6 dB bandwidth of the equipment is 680 kHz (see appendix 2).

Note 6: Due to the low level of the peak output power, only the results are reported on paragraph 12 and the plot are not integrated on this report.

According paragraph 11.10.1 of standard ANSI C63.10:

Where the measured power (peak conducted output power or maximum conducted output power) complies with the regulatory requirement for the PSD, then measurement of PSD is not required, provided that the PSD level is reported as being equal to the measured output power.

7. RF EXPOSURE:

In accordance with KDB 447498 D01 General RF Exposure Guidance v06, Paragraph 4.3.1.

Maximum measured EIRP = -7.6 dBm = 0.000174W at 2402 MHz

With antenna gain at 0 dBi

The test separation distance declared is 5 mm (with a minimum value of 5 mm)

The product must respect the exclusion limit for 10-g extremity SAR.

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 7.5$

According this formula:

Power threshold, mW = $[(7.5 * \text{min. test separation distance, mm}) / \sqrt{f(\text{GHz})}]$

Power threshold, mW = $[(7.5 * 5) / \sqrt{2.402}]$

Power threshold, mW = 24.2 mW

The maximum measured power is lower than 24.2 mW.

The equipment fulfils the requirements on maximum conducted or equivalent isotropically radiated power (e.i.r.p) for general population/uncontrolled exposure and therefore fulfils the requirements of 47 CFR §1.1310 at the distance greater than 5 mm between the user and the antenna.

8. MEASUREMENT UNCERTAINTY

To declare, or not, the compliance with the specifications, it was not explicitly taken into account of uncertainty associated with the result(s)

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for normal distribution corresponds to a coverage probability of approximately 95%.

Parameter	Emitech Uncertainty
RF power, conducted	± 0.75 dB
Radiated emission valid to 26 GHz $F < 62.5$ MHz:	± 5.14 dB
62.5 MHz $< F < 1$ GHz:	± 5.13 dB
1 GHz $< F < 26$ GHz:	± 5.16 dB
AC Power Lines conducted emissions	± 3.38 dB
Temperature	± 1 °C
Humidity	± 5 %

9. ADDITIONAL PROVISIONS TO THE GENERAL RADIATED EMISSION LIMITATIONS**Temperature (°C) : 28****Humidity (%HR): 45****Date : July 19, 2019****Technician : T. LEDRESSEUR****Standard: FCC Part 15****Test procedure:** Paragraph 15.215**Test set up:**

Test realized in near field. All field strength measurements are correlated with the radiated maximum peak output power

Test operating condition of the equipment:

The equipment under test is blocked in continuous modulated transmission mode, at the highest output power level at which the transmitter is intended to operate.

We used for power source the internal fully charged battery:

Voltage at the beginning of test (Vdc): +5 Vdc

Results:

Lower Band Edge: From 2398 MHz to 2400 MHz

Upper Band Edge: From 2483.5 MHz to 2485.5 MHz

Sample N° 1

Channel 37 (2402 MHz)

Fundamental frequency (MHz)	Field Strength Level of fundamental (dB μ V/m)	Detector (Peak or Average)	Frequency of maximum Band-edges Emission (MHz)	Delta Marker (dB) (1)	Limit (dBc)	Margin (dB)
2402	87.63	Peak	2399.99	-47.47	-20	27.47

Channel 39 (2480 MHz)

Fundamental frequency (MHz)	Field Strength Level of fundamental (dB μ V/m)	Detector (Peak or Average)	Frequency of maximum Band-edges Emission (MHz)	Delta Marker (dB) (1)	Calculated Max Out-of-Band Emission Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
2480	85.43	Peak	2483.70	-32.8	52.63 (2)	74	21.37

(1) Marker-Delta method

 (2) The peak level is lower than the average limit (54 dB μ V/m)

band-edge curves are given in appendix 4.

Test conclusion:

RESPECTED STANDARD

10. MAXIMUM PEAK CONDUCTED OUTPUT POWER**Temperature (°C) : 28****Humidity (%HR): 45****Date : July 19, 2019****Technician : T. LEDRESSEUR****Standard: FCC Part 15****Test procedure:** paragraph 15.247 (b)

PKPM1 Peak power meter method of paragraph 11.9.1.3 of ANSI C63.10

Test set up:

First an exploratory radiated measurement was performed. During this phase the product is oriented in this normal position.

The system is tested in anechoic chamber, the EUT is placed on a rotating table, 1.5 m from a ground plane.

Zero degree azimuths correspond to the front of the device under test.

See photos in appendix 2.

Distance of antenna: 3 meters**Antenna height:** 1.5 meter**Antenna polarization:** vertical and horizontal (only the highest level is recorded)

The measurement of the radiated electro-magnetic field is realized in radiated mode with a calibrated peak power meter.

Finally the radiated electro-magnetic field is converted in dBm with the following formula:

$$EIRP(dBm) = E (dB\mu V/m) + 20\log(D) - 104.8;$$

where *D* is the measurement distance in meters

The conducted power is then calculated

$$P = EIRP(dBm) - G$$

Where *G* is the antenna Gain = 0 dBi.

Equipment under test operating condition:

The equipment under test is blocked in continuous modulated transmission mode, at the highest output power level at which the transmitter is intended to operate

We used for power source the internal fully charged battery:

Voltage at the beginning of test (Vdc): +5 Vdc

Results:
Sample N° 1

Channel 37 (F = 2402 MHz)

	Electro-magnetic field (dB μ V/m):	Maximum Peak conducted output power		Limit (W)
		(dBm)	(W)	
Nominal supply voltage:	87.63	-7.6	0.000174	1

Polarization of test antenna: Vertical (height: 165cm)

Position of equipment: see photos in appendix 2 (azimuth: 0°)

Channel 19 (F = 2440 MHz)

	Electro-magnetic field (dB μ V/m):	Maximum Peak conducted output power		Limit (W)
		(dBm)	(W)	
Nominal supply voltage:	87.13	-8.1	0.000155	1

Polarization of test antenna: Vertical (height: 165cm)

Position of equipment: see photos in appendix 2 (azimuth: 0°)

Channel 39 (F = 2480 MHz)

	Electro-magnetic field (dB μ V/m):	Maximum Peak conducted output power		Limit (W)
		(dBm)	(W)	
Nominal supply voltage:	85.43	-9.8	0.000105	1

Polarization of test antenna: Vertical (height: 165cm)

Position of equipment: see photos in appendix 2 (azimuth: 0°)

Test conclusion:

RESPECTED STANDARD

11. INTENTIONAL RADIATOR

Temperature (°C) : 28

Humidity (%HR): 45

Date : July 19, 2019

Technician : T. LEDRESSEUR

Standard: FCC Part 15

Test procedure: paragraph 15.205, paragraph 15.209, paragraph 15.247 (d)

Emissions in non-restricted frequency bands method of paragraph 11.11 of ANSI C63.10

Emissions in restricted frequency bands method of paragraph 11.12 of ANSI C63.10

Test set up:

First an exploratory radiated measurement was performed. During this phase the product is oriented in this normal position.

The measure is realized on open area test site under 1 GHz and in anechoic chamber above 1 GHz.

When the system is tested in an open area test site (OATS), the EUT is placed on a rotating table, 0.8m from a ground plane.

When the system is tested in anechoic chamber, the EUT is placed on a rotating table, 1.5 m from a ground plane.

Zero degree azimuths correspond to the front of the device under test.

See photos in appendix 2.

Frequency range: From 9 kHz to 10th harmonic of the highest fundamental frequency (25 GHz)

Detection mode: Quasi-peak ($F < 1$ GHz)

Peak / Average (F > 1 GHz)

Bandwidth: 200Hz (9 kHz < F < 150kHz)
9 kHz (150 kHz < F < 30MHz)
120 kHz (30 MHz < F < 1 GHz)
100 kHz / 1 MHz (F > 1 GHz)

Distance of antenna: 3 meters

Antenna height: 1.5 meter

Antenna polarization: vertical and horizontal (only the highest level is recorded)

Equipment under test operating condition:

The equipment under test is blocked in continuous modulated transmission mode, at the highest output power level at which the transmitter is intended to operate

We used for power source the internal fully charged battery:

Voltage at the beginning of test (Vdc): +5 Vdc

Results:
Sample N° 1

Channel 37 (F = 2402 MHz)

Frequencies (MHz)	Detector P QP Av	Antenna height (cm)	RBW (kHz)	Polarization H: Horizontal V: Vertical	Field strength Measured at 3 m (dB μ V/m)	Limits (dB μ V/m) or (dBm)	Margin (dB)
4802.1 (1)	P	150	1000	V	48.53 (2)	74	25.47
7206	P	150	100	V	52.85	66	13.15
12010.1 (1)	P	150	1000	V	51.55 (2)	74	22.45

P= Peak, QP=Quasi-peak, Av=Average

(1) Restricted bands of operation in 15.205

 (2) The peak level is lower than the average limit (54 dB μ V/m)

Channel 19 (F = 2440 MHz)

Frequencies (MHz)	Detector P QP Av	Antenna height (cm)	RBW (kHz)	Polarization H: Horizontal V: Vertical	Field strength Measured at 3/10 m (dB μ V/m)	Limits (dB μ V/m) or (dBm)	Margin (dB)
4879.1 (1)	P	150	1000	V	49.10 (2)	74	24.9
7321.2 (1)	P	150	1000	V	53.51 (2)	74	20.49
12200 (1)	P	150	1000	V	53.00 (2)	74	21

P= Peak, QP=Quasi-peak, Av=Average

(1) Restricted bands of operation in 15.205

 (2) The peak level is lower than the average limit (54 dB μ V/m)

Channel 39 (F = 2480 MHz)

Frequencies (MHz)	Detector P QP Av	Antenna height (cm)	RBW (kHz)	Polarization H: Horizontal V: Vertical	Field strength Measured at 3/10 m (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
4959.84 (1)	P	150	1000	V	51.40 (2)	74	22.6
7440 (1)	P	150	1000	V	53.21 (2)	74	20.79
12400.1 (1)	P	150	1000	V	55.77	74	18.23
12400.1 (1)	Av	150	1000	V	52.37	54	21.63

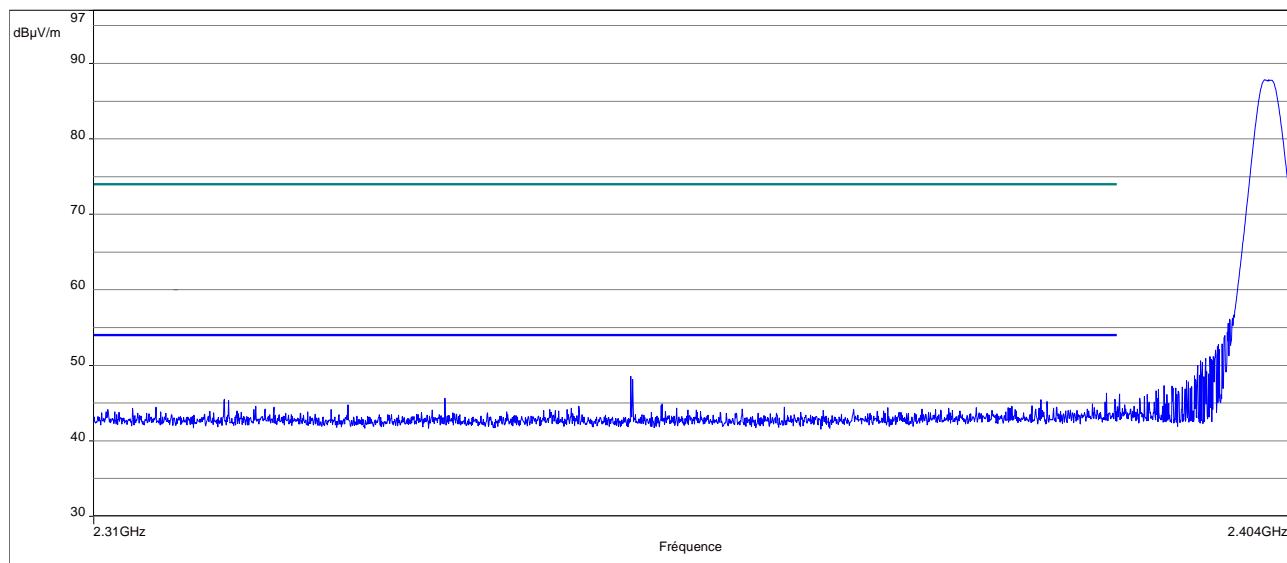
P= Peak, QP=Quasi-peak, Av=Average

(1) Restricted bands of operation in 15.205

 (2) The peak level is lower than the average limit (54 dB μ V/m)

Band edge worst case measurement (band 2.31GHz to 2.39GHz)

15.209 avec bande restrictive - Classe: - Moyenne/3.0m/
 15.209 avec bande restrictive - Classe: - Crête/3.0m/
 Mes.Peach (Horizontale)



Applicable limits: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
 The highest level recorded in a 100 kHz bandwidth is 86 dB μ V/m on channel 37.
 So the applicable limit is 66 dB μ V/m.
 In addition, radiated emissions which fall in the restricted band, 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)).

Note: any spurious which has more than 20 dB of margin compared to the applicable limit is not necessarily reported.

Test conclusion:

RESPECTED STANDARD

12. MAXIMUM PEAK CONDUCTED POWER DENSITY**Temperature (°C) : 28****Humidity (%HR): 45****Date : July 19, 2019****Technician : T. LEDRESSEUR****Standard: FCC Part 15**

Test procedure: paragraph 15.247 (e), paragraph 15.247 (f)
PKPSD (Peak PSD) method of paragraph 11.10.2 of ANSI C63.10

Test set up:

First an exploratory radiated measurement was performed. During this phase the product is oriented in this normal position.

The system is tested in anechoic chamber, the EUT is placed on a rotating table, 1.5 m from a ground plane.

Zero degree azimuths correspond to the front of the device under test.

See photos in appendix 2.

Distance of antenna: 3 meters

Antenna height: 1.5 meter

Antenna polarization: vertical and horizontal (only the highest level is recorded)

The measurement of the radiated electro-magnetic field is realized with an analyser.

Span: 2MHz

Resolution bandwidth: 3kHz

Video bandwidth: 10 kHz

Detector: Peak

Number of points: 10001

Sweep time: auto

Trace mode: max hold

Then the peak marker function is used.

Finally the radiated electro-magnetic field is converted in dBm with the following formula:

$EIRP(dBm) = E (dB\mu V/m) + 20\log(D) - 104.8;$

where D is the measurement distance in meters

The conducted power is then calculated

$P = EIRP(dBm) - G$

Where G is the antenna Gain = 0 dBi.

Equipment under test operating condition:

The equipment under test is blocked in continuous modulated transmission mode, at the highest output power level at which the transmitter is intended to operate

We used for power source the internal fully charged battery:

Voltage at the beginning of test (Vdc): +5 Vdc

Results:
Sample N° 1

Channel 37 (F = 2402 MHz)

Electro-magnetic field (dB μ V/m):	Maximum Peak conducted power density (dBm / 3 kHz)	Limit (dBm / 3 kHz)
72.43	-22.8	8

Polarization of test antenna: Vertical (height: 165cm)

Position of equipment: see photos in appendix 2 (azimuth: 0°)

Channel 19 (F = 2440 MHz)

Electro-magnetic field (dB μ V/m):	Maximum Peak conducted power density (dBm / 3 kHz)	Limit (dBm / 3 kHz)
71.93	-23.3	8

Polarization of test antenna: Vertical (height: 165cm)

Position of equipment: see photos in appendix 2 (azimuth: 0°)

Channel 39 (F = 2480 MHz)

Electro-magnetic field (dB μ V/m):	Maximum Peak conducted power density (dBm / 3 kHz)	Limit (dBm / 3 kHz)
70.23	-25	8

Polarization of test antenna: Vertical (height: 165cm)

Position of equipment: see photos in appendix 2 (azimuth: 0°)

Test conclusion:

RESPECTED STANDARD

 □□□ *End of report, (3) appendixes to be forwarded* □□□

APPENDIX 1: Test equipment list
Additional provisions to the general radiated emission limitations

TYPE	MANUFACTURER	EMITECH NUMBER
Full anechoic chamber	EMITECH	10759
Turntable and mat controller NCD	MATURO	10789
Satellite synchronized frequency standard GPS8	ACQUISYS	8896
Spectrum Analyzer FSV40	Rohde & Schwarz	15666
Antenna 3117	ETS-Lindgren	10771
Low-noise amplifier PAM-118A	COM-POWER	15812
N-1M Cable	SUCOFLEX	14302
N-2M Cable	SUCOFLEX	14303
N-2.5M Cable	SUCOFLEX	14304
N-5M Cable	Huber + Suhner	12912
Multimeter 177	Fluke	14831
Meteo station WS-9232	La Crosse Technology	8750
Software	BAT-EMC V3.17.0.25	0000

Maximum peak conducted output power

TYPE	MANUFACTURER	EMITECH NUMBER
Full anechoic chamber	EMITECH	10759
Turntable and mat controller NCD	MATURO	10789
Satellite synchronized frequency standard GPS8	ACQUISYS	8896
Spectrum Analyzer FSV40	Rohde & Schwarz	15666
Wideband sensor Z86	Rohde & Schwarz	11592
Antenna 3117	ETS-Lindgren	10771
Low-noise amplifier PAM-118A	COM-POWER	15812
N-1M Cable	SUCOFLEX	14302
N-2M Cable	SUCOFLEX	14303
N-2.5M Cable	SUCOFLEX	14304
N-5M Cable	Huber + Suhner	12912
Multimeter 177	Fluke	14831
Meteo station WS-9232	La Crosse Technology	8750
Software	R&S Power Viewer Plus V5.9	-

Intentional radiator

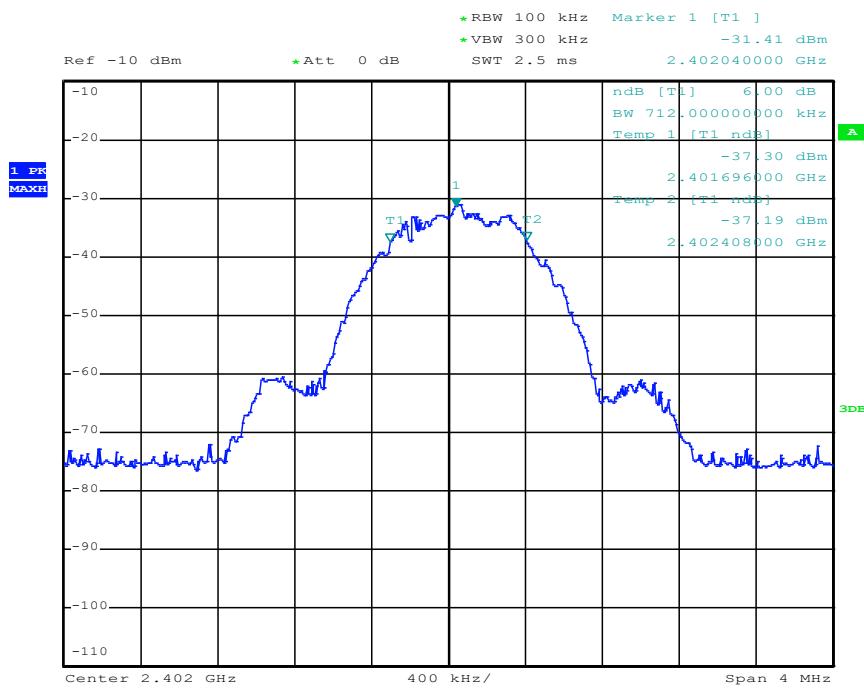
TYPE	MANUFACTURER	EMITECH NUMBER
Full anechoic chamber	EMITECH	10759
Turntable and mat controller NCD	MATURO	10789
Satellite synchronized frequency standard GPS8	ACQUISYS	8896
Spectrum Analyzer FSV40	Rohde & Schwarz	15666
Loop antenna 6502	EMCO	1406
Biconical antenna 3110	Emco	7240
Log periodic antenna HL223	Rohde & Schwarz	7190
Antenna 3117	ETS-Lindgren	10771
Antenna 3160-09	ETS Lindgren	8786
Low-noise amplifier ZFL-1000LN	Mini-circuit	10730
Low-noise amplifier S005180M3201	LUCIX Corp.	12590
Low-noise amplifier S180265L3201	LUCIX Corp.	8704
N-1M Cable	SUCOFLEX	14302
N-2M Cable	SUCOFLEX	14303
N-2.5M Cable	SUCOFLEX	14304
N-5M Cable	Huber + Suhner	12912
Cable k-20cm	STORM MICROWAE	8974
Cable k-20cm	STORM MICROWAE	8975
Reject band filter BRM50702	Microtronics	7299
Multimeter 177	Fluke	14831
Meteo station WS-9232	La Crosse Technology	8750
Software	BAT-EMC V3.6.0.32	0000

Maximum Peak conducted power density

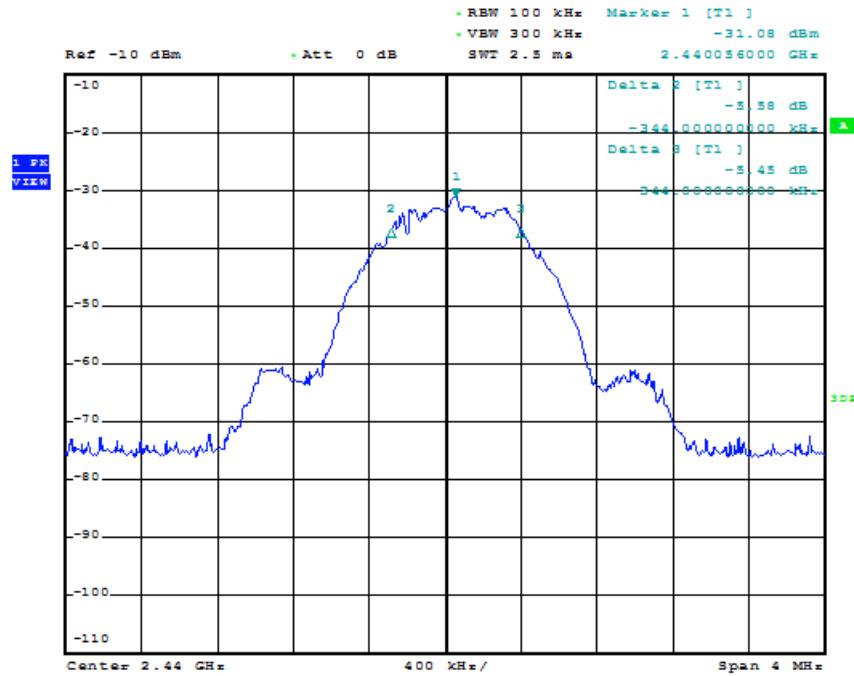
TYPE	MANUFACTURER	EMITECH NUMBER
Full anechoic chamber	EMITECH	10759
Turntable and mat controller NCD	MATURO	10789
Satellite synchronized frequency standard GPS8	ACQUISYS	8896
Spectrum Analyzer FSV40	Rohde & Schwarz	15666
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Low-noise amplifier PAM-118A	COM-POWER	15812
N-1M Cable	SUCOFLEX	14302
N-2M Cable	SUCOFLEX	14303
N-2.5M Cable	SUCOFLEX	14304
N-5M Cable	Huber + Suhner	12912
Multimeter 177	Fluke	14831
Meteo station WS-9232	La Crosse Technology	8750
Software	BAT-EMC V3.17.0.25	0000

APPENDIX 2: 6 dB bandwidth

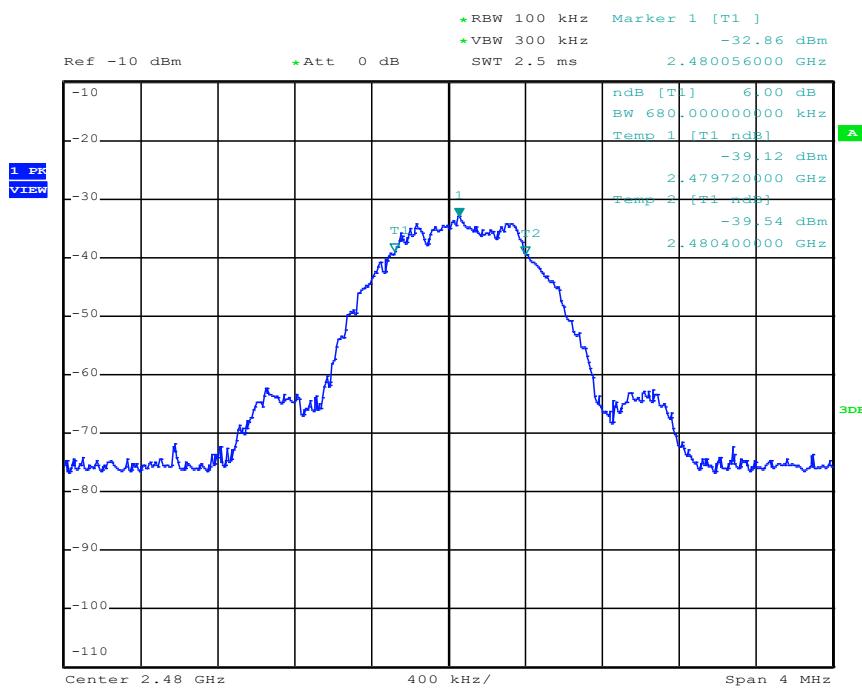
Low channel



Central channel

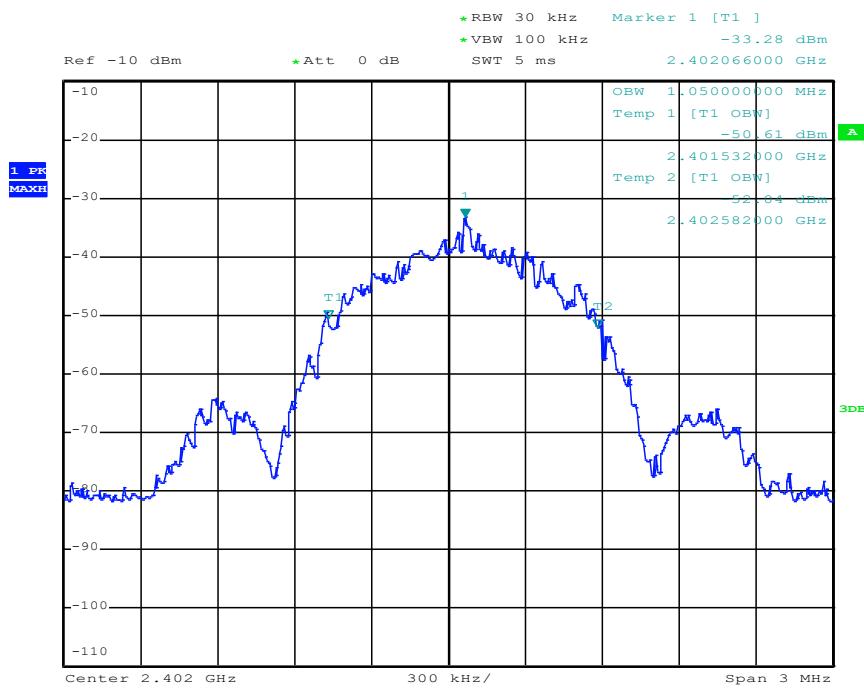


High channel

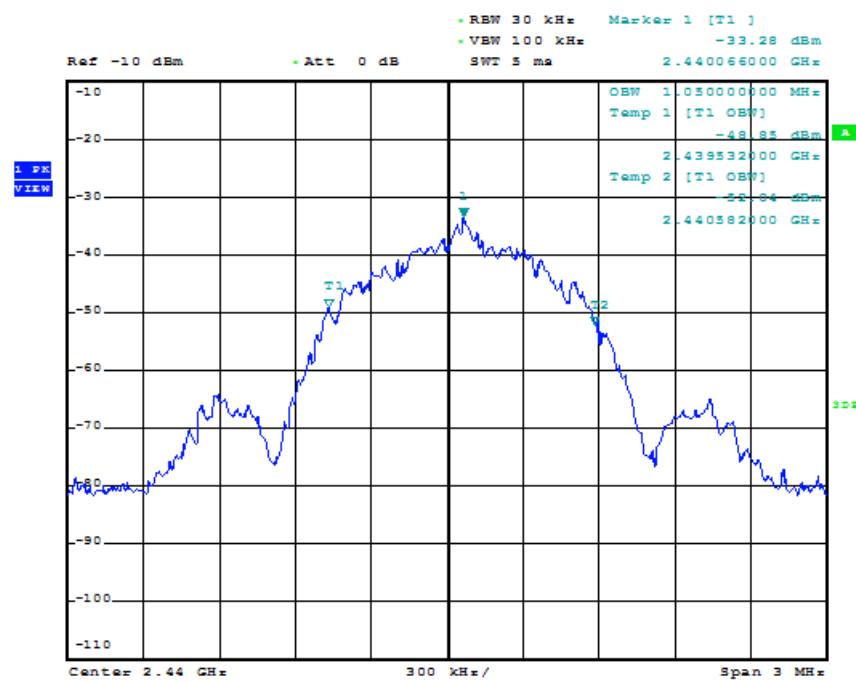


APPENDIX 3: 99% bandwidth

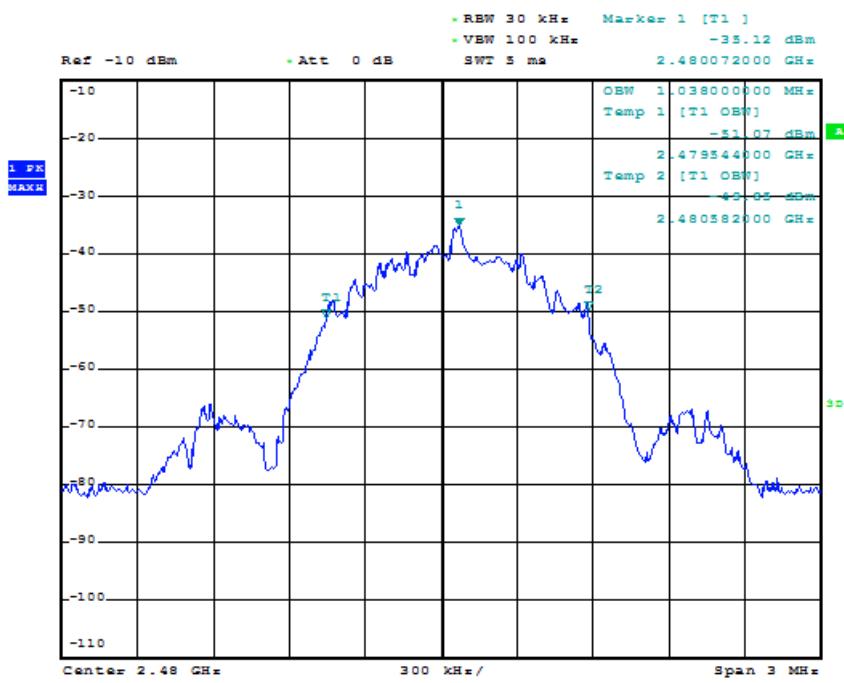
Low channel



Central channel

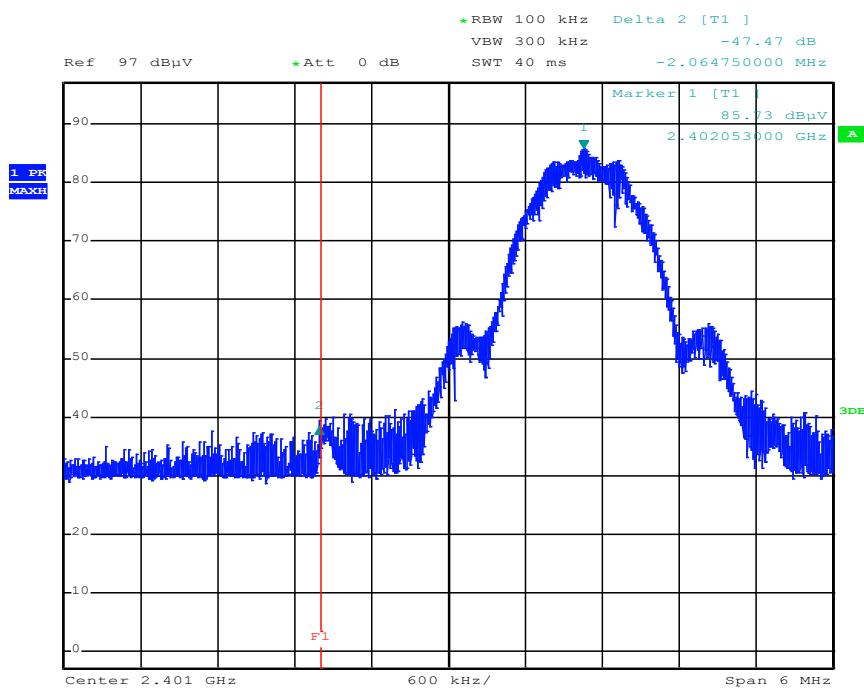


High channel



APPENDIX 4: Band edge

Low channel



High channel

