

FCC PART 22/24 TEST REPORT

for

**EDGE Modem
FCC ID: NIT-SEGM520
Model No.: SEGM-520**

of

**Applicant: SOLOMON Technology Corporation.
Address: No.42, Sing Zhong Rd., Nei Hu Dist., Taipei, Taiwan, R.O.C.**

Tested and Prepared

by



ETS DR. GENZ TAIWAN PS CO., LTD

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Report Number: W6M20612-7664-P-2224
FCC ID: NIT-SEGM520

Certification of Test Report

Applicant : SOLOMON Technology Corporation

Manufacturer : SOLOMON Technology Corporation

Tested Equipment :

Type Description	: EDGE Modem
Model Number	: SEGM-520
Series Number	: N/A
Brand Name	: N/A
Operation Frequency	: 824.2-848.8MHz / 1850.2 - 1909.8 MHz
RF Output Power	1)824.2-848.8 MHz: 31.61 dBm 2)1850.2-1909.8 MHz: 28.16 dBm
Power Supply	: 5 VDC (power on PC)

Regulation Applied : 47CFR Part 22 (2005-10) and Part 24 (2005-10)

Test Method : 47CFR Part 2 (2005), TIA/EIA-603B (2002) and ANSI C63.4(2003)

I HEREBY CERTIFY THAT: The test results written in this report were derived conscientiously in accordance with the requirements and procedures of 47CFR Part 2(2005) and TIA-603-B(2002), and it was found that the device described above is in compliance with the applicable limits specified in 47CFR Part 22 and Part 24.

Note:

1. The result of this test report is valid only in connection to the sample has been tested at the laboratory of ETS Product Service (Taiwan).
2. This test report shall always be duplicated in full pages unless the written approval of the testing laboratory is obtained.

Test Engineer:

January 8, 2007

Jay Chaing



Date

ETS-Lab.

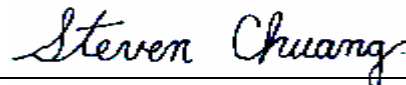
Name

Signature

Technical responsibility for area of testing:

January 8, 2007

Steven Chuang



Date

ETS

Name

Signature

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1. Summary

1.1 Description of tested equipment

The equipment tested is a double-band operation GSM850 and PCS 1900 USB EDGE Modem. The operation frequency bands and rated RF output power are listed as follows:

824.2-848.8MHz (Cellular, Part 22), 0.8831 W (ERP)
1850.2-1909.8MHz (Cellular, Part 24), 0.6547 W (EIRP)

This test report only contains test requirements specified in 47CFR Part 22 and Part 24 for Cellular function, for other functions, please refer to separate test report with respect to the relevant test standard and specification.

1.2 Date of testing processing

Test sample received: December 14, 2006

Test finished: January 05, 2007

Other Information: None

1.3 Modification Information

No modification was made during the all test items been performed.

1.4 Test standards

Technical standard : FCC Part 2(2005), TIA-603-B(2002), ANSI C63.4(2003)

Deviation from test standard: None

Additional information : None

1.5 Summary of test result

Band: 850MHz

Section in this Report	Test Item	Relevant Section	Verdict
3.2	RF power output	2.1046(a), 22.913(a)	Pass
4.2	Modulation characteristics	2.1047	N/A
5.2	Occupied bandwidth	2.1049(h)	Pass
6.2	Spurious emissions at antenna terminals	22.917(a), 2.1051	Pass
7.2	Field strength of spurious radiation	22.917(a), 2.1053	Pass
8.2	Frequency stability	2.1055(a) 2.1055(d)	Pass

Band: 1900MHz

Section in this Report	Test Item	Relevant Section	Verdict
3.2	RF power output	2.1046(a), 24.232(b)	Pass
4.2	Modulation characteristics	2.1047	N/A
5.2	Occupied bandwidth	2.1049(h)	Pass
6.2	Spurious emissions at antenna terminals	24.238(a), 2.1051	Pass
7.2	Field strength of spurious radiation	24.238(a), 2.1053	Pass
8.2	Frequency stability	2.1055(a) 2.1055(d)	Pass

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2. General Information

2.1 Testing laboratory

2.1.1 Location

OATS
No.5-1, Shuang Sing Village,
LiShuei Rd., Wanli Township,
Taipei County 207, Taiwan (R.O.C.)

Company
ETS DR. GENZ TAIWAN PS CO., LTD.
6F, NO. 58, LANE 188, RUEY-KUANG RD.
NEIHU, TAIPEI 114, TAIWAN R.O.C.
Tel : 886-2-66068877
Fax : 886-2-66068879

2.1.2 Details of accreditation status

Accredited testing laboratory
A2LA-registration number: 2300.01
FCC filed test laboratory Reg. No. 930600
Industry Canada filed test laboratory Reg. No. IC 5679
PTCRB Accredited Type Certification Test House

2.2 Details of approval holder

Name : SOLOMON Technology Corporation
Street : No.42, Sing Zhong Rd., Nei Hu Dist.,
Town : Taipei
Country : Taiwan, R.O.C.
Telephone : +886-2-8791-8989
Fax : +886-2-8791-9677

Manufacturer: (if applicable)

Name : ./.
Street : ./.
Town : ./.
Country : ./.

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2.3 Description of Tested System

Equipment	Model No.	Series No.	Software	Cable information	Note
Notebook	S6130	FPC04078DK	Windows XP	There's no cable between this equipment and EUT.	--

Frequency Range:

Band: 850MHz**Band: 1900MHz**

Frequencies Selected to be investigated:

Band: 850MHz

Low Frequency (ch 128) : 824.2 MHz

Mid Frequency (ch 188) : 836.2 MHz

High Frequency (ch 251) : 848.8 MHz

Band: 1900MHz

Low Frequency (ch 512) : 1850.2 MHz

Mid Frequency (ch 661) : 1880 MHz

High Frequency (ch 810) : 1909.8 MHz

Antenna Type : Helix Antenna

Antenna Gain : 3.5 dBi

Power supply : 5 VDC (power on PC)

2.4 Test environment

Temperature	: 27 °C
Relative humidity content	: 54 %
Air pressure	: 86-103 Kpa

2.5 General Test Requirement

Radiated Emission: For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

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2.6 Test Equipment List

No.	Test equipment	Model/SN	Manufacturer	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10 842121/013	R&S	2007/10/15
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5 840731/011	R&S	2007/10/15
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D 137	Schwarzbeck	2007/10/15
ETSTW-CE 006	IMPULS-BEGRENZER PULSE LIMITER	ESH3-Z2 100226	R&S	In House Certificate
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U MAA0305-009	GIANT FORCE	2007/8/16
ETSTW-CE 012	Dual-Phase-V-Network	NNB-2/16Z 03/10201	Telemeter	2007/6/12
ETSTW-RE 002	Function Generator	33220A MY43004982	Agilent	2007/10/13
ETSTW-RE 003	EMI TEST RECEIVER	ESI 831438/001	R&S	2007/10/19
ETSTW-RE 004	EMI TEST RECEIVER	ESI 831459/012	R&S	2007/10/29
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10 843207/020	R&S	2007/10/11
ETSTW-RE 017	ANTENNA	HL025 352886/001	R&S	2008/5/3
ETSTW-RE 021	SWEEP GENERATOR	SWM05 835130/010	R&S	2007/10/10
ETSTW-RE 027	Passive Loop Antenna	6512 34563	EMCO	2007/6/29
ETSTW-RE 028	Log-Periodic DipoleArray Antenna	3148 34429	EMCO	2008/5/25
ETSTW-RE 029	Biconical Antenna	3109 33524	EMCO	2008/5/25
ETSTW-RE 030	Double-Ridged Waveguide Horn Antenna	3117 35224	EMCO	2008/5/2
ETSTW-RE 032	Millivoltmeter	URV 55 849086/013	R&S	2007/10/10
ETSTW-RE 034	Power Sensor	URV5-Z4 839313/006	R&S	2007/10/10
ETSTW-RE 042	ANTENNA	HK116 100172	R&S	2007/1/13
ETSTW-RE 043	ANTENNA	HL223 100166	R&S	2008/5/7
ETSTW-RE 044	ANTENNA	HL050 100094	R&S	2008/5/28
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160 9160-3185	Schwarzbeck	2007/5/18
ETSTW-RE 055	SPECTRUM ANALYZER	FSU-26 200074	R&S	2007/7/27
ETSTW-GSM 02	Universal Radio Communication Tester	CMU 200 103489	R&S	2007/10/17
ETSTW-GSM 11	GSM 850,900,1800,1900 Test system	TS8950G	R&S	2007/4/30
ETSTW-GSM 16	TEMP.&HUMIDITY CHAMBER	GTH-120-40-1P-U MAA0501002	GIANT FORCE	2007/12/27
ETSTW-GSM 18	AUDIO ANALYZER	UPL16 100173	R&S	2007/10/27
ETSTW-GSM 23	SPLITTER	4901.19.A None	SUHNER	Function Test

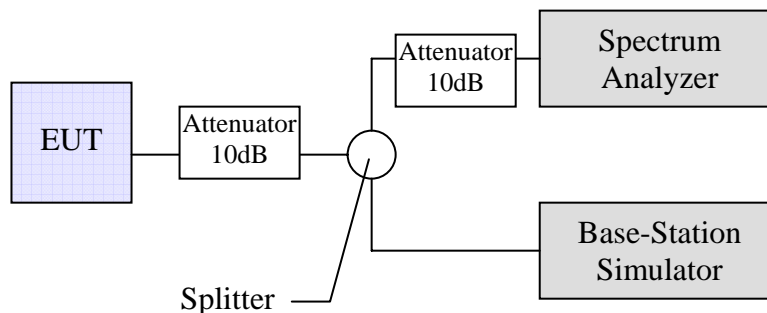
3. RF Power Output

3.1 Test procedure

3.1.1 Conducted Method

Per 47CFR Part 2.1046, the RF power output shall be measured at the RF output terminals and following procedure is employed:

The transmitter output was connected as the following figure:



The whole connection system is calibrated with a standard signal generator. Power on and make a link from simulator to EUT and then set the EUT to maximum output power.

Measure the RF power with the spectrum analyzer in accordance the following settings:

RBW: 300kHz for Frequency below 1GHz and 1MHz for Frequency equal to and above 1GHz.

VBW: 300kHz for Frequency below 1GHz and 1MHz for Frequency equal to and above 1GHz.

Span: 2MHz

Sweep: 3s

The power output at the transmitter antenna terminal is then determined by assign the value of the corrected factor to the spectrum analyzer reading.

Tests were performed at three frequencies (low , middle and high channels) and operation mode selected.

3.1.2 Radiated Method

If the conducted measurement is not practical due to the integral antenna, the radiated measurement will be performed in accordance the following procedure:

The EUT was positioned on a non-conductive turntable, 0.8m above the ground on an open test site.

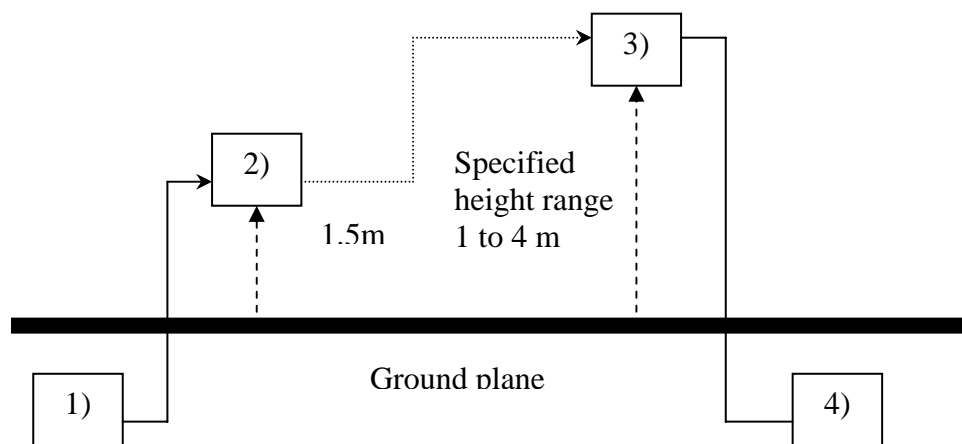
The radiated emission at the fundamental frequency was measured at 3m distance with a test antenna and spectrum analyzer.

Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

Substitution RF power Measurement at ETS Taiwan
General :

The applied substitution method follows ANSI/TIA/EIA-603, ANSI/TIA/EIA-102.CAAA or the appropriate ETSI rules respectively.

The actual signal generated by the EUT can be determined by means of a substitution measurement in which a known signal source replaces the device to be measured.



- 1) Signal generator ;
- 2) Substitution antenna ;
- 3) Test antenna ;
- 4) Spectrum analyzer or selective voltmeter.

The substitution antenna replaces the transmitter antenna at the same position and in vertical polarization. The frequency of the signal generator shall be adjusted to the measurement frequency.

The test antenna shall be raised or lowered, if necessary, to ensure that the maximum signal is still received. The input signal to the substitution antenna shall be adjusted in level until an equal or a known related level to that detected from the transmitter is obtained in the measurement receiver.

If a fully anechoic chamber is used as test site in order to provide free space conditions there is no need to change the height of the antenna.

The measurement will be repeated in horizontal position.

Calibration :

In order to make this kind of measurement more effective and to avoid subjective measurement faults ETS has installed automatic computer controlled measurement procedures.

With the above described substitution method a test site is calibrated over the full frequency range which is used in suitable frequency steps. For a certain power level on the substitution antenna the received power over the whole frequency range is documented. All necessary antenna gains, cable losses, filter losses and amplifications of preamplifiers are taken in consideration. The summary of this calibration measurement performs a transducer factor that

is related to the considered test site and a certain measurement distance. Differences of the radiated power levels of different test samples are determined by internal attenuation of measurement receiver . The proper function of such test site will be maintained by short term plausibility checks and periodical re-calibration.

Testing :

The test sample will be putted on the table at the defined position and the radiated power will be receiver and documented by the measurement receiver.

On test sites with ground plane the measurement antenna will be lowered and raised to maximum values at significant frequencies.

For peak power measurements the sample is turned by the turntable over 360 degree in order to find the direction with the maximum radiation or to document the max reading with the MAXHOLD function during the rotation.

3.2 Test Results

- Conducted Measurement
- Radiated Measurement

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
824.098	29.32	31.47	38.45	Pass
836.020	28.93	31.08	38.45	Pass
848.727	29.46	31.61	38.45	Pass
1850	21.97	24.12	33	Pass
1880	22.95	25.10	33	Pass
1910	26.01	28.16	33	Pass

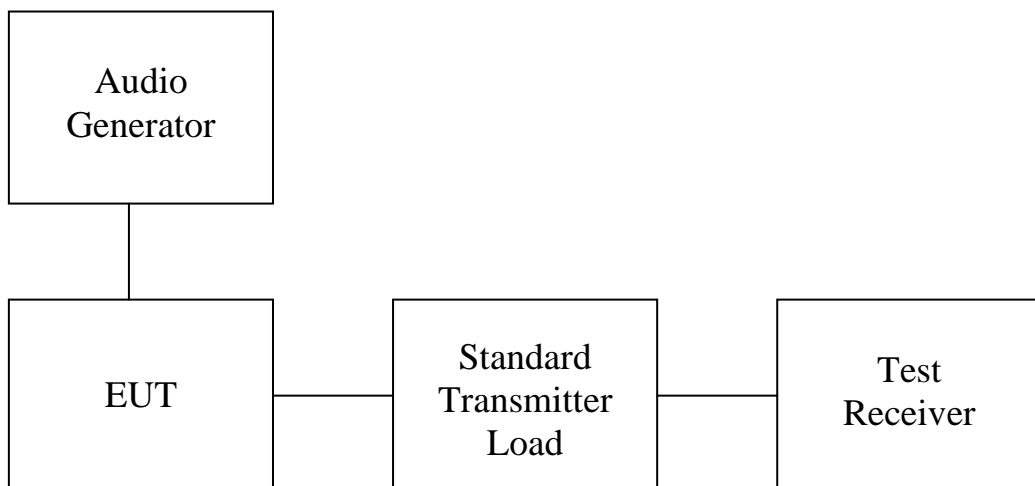
Note: Please refer to appendix A for plot data.

Test equipment: ETSTW-RE 003, ETSTW-RE 043, ETSTW-GSM 02

4. Modulation Characteristics

4.1 Test procedure

- A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted.
The audio signal generator is connected to the audio input of the EUT with its full rating. The modulation response is measured at certain modulation frequencies, related to 1000Hz reference signal. Tests are performed for positive and negative modulation.
- Equipment which employs modulation Limiting: A curve or family of curves showing the percentage of modulation versus the modulation input voltage shall be supplied. The audio signal generator is connected to the audio input of the EUT with its full rating. The modulation limiting is measured at certain modulation frequencies from 100Hz to 15kHz.



4.2 Test Results

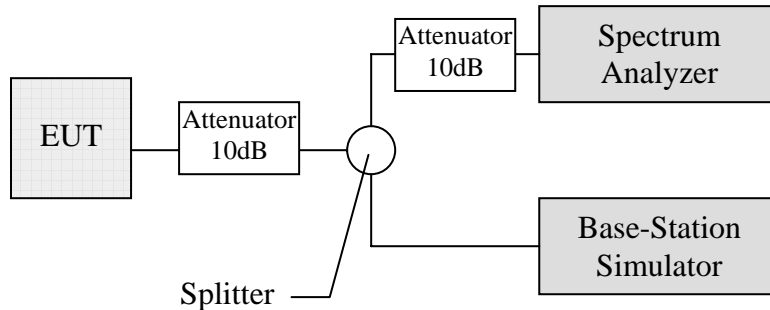
For digital modulation employed, this test item is not applicable.

5. Occupied Bandwidth

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power. Near the carrier an Emission Mask is defined by the standard.

5.1 Test procedure

The RF output of the transceiver was connected as the following figure. Occupied Bandwidth was measured with a occupied bandwidth function of the analyzer at 99% power was occupied. Then set the spectrum analyzer to cover the upper and lower band edges to measure emission mask.



5.2 Test Results

Occupied Channel Bandwidth (kHz)	
Channel 128	246.49299
Channel 188	246.49299
Channel 251	246.49299
Channel 512	246.49299
Channel 661	244.48898
Channel 810	246.49299
-26dB Channel Bandwidth (kHz)	
Channel 128	330.12821
Channel 188	328.52564
Channel 251	330.12821
Channel 512	326.92308
Channel 661	331.73077
Channel 810	328.52564

Note: Please refer to appendix B for plot data.

Test equipment: ETSTW-RE 003, ETSTW-RE 043, ETSTW-GSM 02

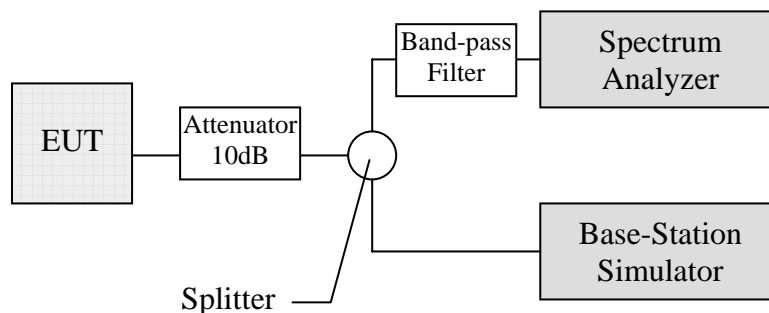
6. Spurious Emissions at Antenna Terminals

6.1 Test procedure

This transmitter output was connected to a calibrated coaxial attenuator, the other end of which was connected to a spectrum analyzer via a three-port splitter. Please refer to the following figure. Transmitter output was derived with the spectrum analyzer in dBm.

The Spurious Emissions at Antenna Terminals was measured by the spectrum analyzer with a suitable notch filter and/or Band-pass filter.

Tests were performed with an unmodulated carrier at three frequencies (low , middle and high channels) and on all power levels , which can be set-up on the transmitters.



6.2 Test Results

CH 128

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
70.865	-39.33	-13	26.33
958.974	-39.17	-13	26.17
1649.038	-25.10	-13	12.10
5006.41	-39.00	-13	26.00
9332.131	-38.83	-13	25.83
13860.577	-38.76	-13	25.76
24565.705	-38.03	-13	25.03

CH 188

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
101.106	-39.31	-13	26.31
946.154	-38.74	-13	25.74
1673.077	-23.65	-13	10.65
6948.718	-39.11	-13	26.11
9294.071	-38.37	-13	25.37
13667.067	-39.04	-13	26.04
25737.179	-37.51	-13	24.51

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CH 251

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
111.458	-39.38	-13	26.38
917.949	-39.22	-13	26.22
1697.115	-26.81	-13	13.81
7237.179	-38.89	-13	25.89
11227.564	-38.32	-13	25.32
16334.135	-38.86	-13	25.86
25818.910	-37.95	-13	24.95

CH 512

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
176.843	-40.73	-13	27.73
546.154	-40.63	-13	27.63
3355.769	-37.60	-13	24.60
6384.615	-39.81	-13	26.81
10626.202	-39.12	-13	26.12
14617.788	-38.98	-13	25.98
25982.372	-36.86	-13	23.86

CH 661

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
194.551	-41.39	-13	28.39
410.256	-40.46	-13	27.46
3591.346	-38.59	-13	25.59
4743.590	-40.41	-13	27.41
11478.766	-39.18	-13	26.18
17949.519	-38.71	-13	25.71
25587.340	-36.12	-13	23.12

CH 810

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
187.196	-41.24	-13	28.24
503.846	-40.03	-13	27.03
2168.269	-38.85	-13	25.85
7012.821	-40.66	-13	27.66
11082.933	-39.53	-13	26.53
17512.019	-38.51	-13	25.51
24974.359	-36.73	-13	23.73

Note: Please refer to appendix C for plot data.

Test equipment: ETSTW-RE 003, ETSTW-GSM 02, ETSTW-GSM 23

6.3 Explanation of test result

All factors like cable loss and external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

6.4 Calculation of Limit for Spurious at Antenna Terminals

Compliance with § 22.917(a) requires that any emission be attenuated below the transmitter power at least $43 + 10 \log_{10} P$ (P = transmitter power in Watts).

The compliance limit was calculated as an example per the following:

Maximum transmitter output power: $P=1.4488$ Watts

Required attenuation: $A=43 + 10 \log_{10} P$

Limit for Spurious Emissions at Antenna Terminals: $L=P-A=-13\text{dBm}$

7. Field Strength of Spurious Radiation

7.1 Test procedure

The test procedure for filed strength measurement is same as radiated power except for a notch filter or band pass filter is used to avoid the influence of fundamental to the pre-amplifier.

The measurements below 1GHz were performed with a measurement bandwidth of 100kHz, above 1GHz with a bandwidth of 1 MHz.

7.2 Test Results

The measurements of the spurious emission at the upper, center and lower channel.

CH 128

Frequency (MHz)	Polarization (H/V)	Reading Level (dBm)	Corrected Factor (dB)	Result Level (dBm)	Limit (dBm)	Margin
1649.2985	H	-38.89	-6.80	-45.69	-13.00	32.69
2472.9458	H	-55.33	-0.78	-56.11	-13.00	43.11
3296.5931	H	-56.12	0.22	-55.90	-13.00	42.90
1649.2985	V	-40.86	-6.80	-47.66	-13.00	34.66
2472.9458	V	-49.10	-0.78	-49.88	-13.00	36.88
3296.5931	V	-53.34	0.22	-53.12	-13.00	40.12

CH 188

Frequency (MHz)	Polarization (H/V)	Reading Level (dBm)	Corrected Factor (dB)	Result Level (dBm)	Limit (dBm)	Margin
1673.3466	H	-40.38	-6.70	-47.08	-13.00	34.08
2509.0180	H	-55.59	-1.74	-57.33	-13.00	44.33
3344.6893	H	-53.99	0.24	-53.75	-13.00	40.75
1673.3466	V	-40.22	-6.70	-46.92	-13.00	33.92
2509.0180	V	-53.29	-1.74	-55.03	-13.00	42.03
3344.6893	V	-54.11	0.24	-53.87	-13.00	40.87

CH 251

Frequency (MHz)	Polarization (H/V)	Reading Level (dBm)	Corrected Factor (dB)	Result Level (dBm)	Limit (dBm)	Margin
1697.3947	H	-42.98	-6.56	-49.54	-13.00	36.54
2545.0901	H	-53.55	-1.34	-54.89	-13.00	41.89
3398.7975	H	-53.57	0.32	-53.25	-13.00	40.25
1697.3947	V	-40.47	-6.56	-47.03	-13.00	34.03
2545.0901	V	-54.47	-1.34	-55.81	-13.00	42.81
3398.7975	V	-52.61	0.32	-52.29	-13.00	39.29

CH 512

Frequency (MHz)	Polarization (H/V)	Reading Level (dBm)	Corrected Factor (dB)	Result Level (dBm)	Limit (dBm)	Margin
3703.142	H	-80.04	49.90	-30.14	-13.00	17.14
5554.978	H	-53.56	9.21	-44.35	-13.00	31.35
7406.819	H	-53.28	11.14	-42.14	-13.00	29.14
9250.498	H	-73.16	31.22	-41.94	-13.00	28.94
3703.142	V	-71.13	50.01	-21.12	-13.00	8.12
5554.978	V	-54.86	8.76	-46.10	-13.00	33.10
7406.819	V	-52.96	11.04	-41.92	-13.00	28.92
9250.498	V	-72.23	33.31	-38.92	-13.00	25.92

CH 661

Frequency (MHz)	Polarization (H/V)	Reading Level (dBm)	Corrected Factor (dB)	Result Level (dBm)	Limit (dBm)	Margin
3761.425	H	-79.02	50.01	-29.01	-13.00	16.01
5641.425	H	-58.14	9.62	-48.52	-13.00	35.52
7524.989	H	-53.08	11.66	-41.42	-13.00	28.42
11278.141	H	-71.36	34.20	-37.16	-13.00	24.16
3761.425	V	-72.95	49.81	-23.14	-13.00	10.14
7524.989	V	-49.11	11.20	-37.91	-13.00	24.91
5641.425	V	-57.16	9.24	-47.92	-13.00	34.92
11278.141	V	-70.43	34.51	-35.92	-13.00	22.92

CH 810

Frequency (MHz)	Polarization (H/V)	Reading Level (dBm)	Corrected Factor (dB)	Result Level (dBm)	Limit (dBm)	Margin
3820.519	H	-79.61	50.20	-29.41	-13.00	16.41
5730.912	H	-60.05	9.93	-50.12	-13.00	37.12
7639.987	H	-49.03	11.11	-37.92	-13.00	24.92
11462.911	H	-68.97	34.05	-34.92	-13.00	21.92
3820.519	V	-72.84	49.70	-23.14	-13.00	10.14
5730.912	V	-59.67	9.66	-50.01	-13.00	37.01
7639.987	V	-45.81	10.66	-35.15	-13.00	22.15
11462.911	V	-65.42	34.27	-31.15	-13.00	18.15

Note: Please refer to appendix D for plot data.

7.3 Explanation of test result

Result Level = Reading Level + Corrected Factor

Corrected Factor = SG level – Received level-Cable loss + substitution antenna gain

7.4 Calculation of Limit for Field Strength of Spurious

Compliance with § 22.917(a) requires that any emission be attenuated below the transmitter power at least $43 + 10 \log_{10} P$ (P = transmitter power in Watts).

The compliance limit was calculated as an example per the following:

Maximum transmitter radiated power: $P=1.4488$ watt

Required attenuation: $A=43 + 10 \log_{10} P$

Limit for Spurious Emissions at Antenna Terminals: $L=P-A=-13\text{dBm}$

Test equipment: ETSTW-RE 003, ETSTW-RE 017, ETSTW-RE 042, ETSTW-RE 043, ETSTW-RE 044, ETSTW-GSM 02

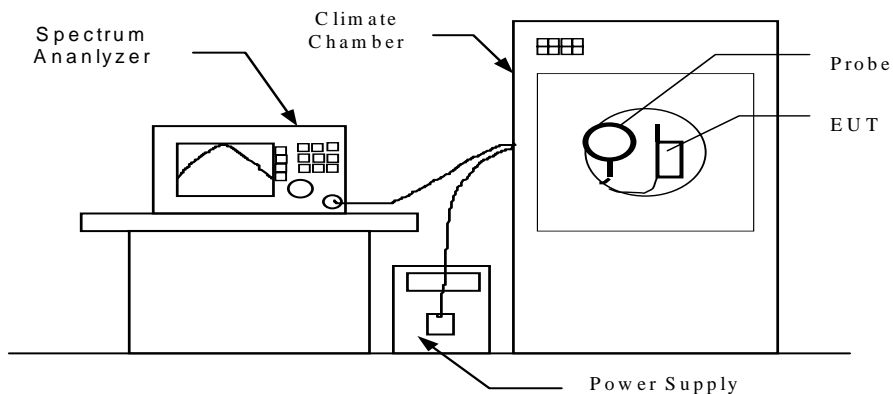
Report Number: W6M20612-7664-P-2224

FCC ID: NIT-SEGM520

8. Frequency Stability

8.1 Test procedure

- The equipment under test was supplied with rated power supply and the RF output was connected to a frequency counter via feed through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable, exited the chamber through an opening made for that purpose. After the temperature stabilized the frequency output was recorded from the counter.
- An external variable power supply was used to supply nominal voltage and 85% to 115% of nominal voltage to the EUT under room temperature. Record the frequencies measured from the counter.
- End point voltage: For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer. Then record the frequencies measured from the counter.



8.2 Test Results

8.2.1 Frequency Stability vs. Temperature

CH 128 824.195192 MHz (It is the based frequency point that measured at nominal temperature and nominal voltage.)

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
5 VDC	50	19	0.023	±2.5
	40	23	0.027	
	30	31	0.037	
	20	20	0.024	
	10	17	0.020	
	0	28	0.033	
	-10	10	0.012	
	-20	18	0.021	
	-30	14	0.016	

CH 188 836.183173 MHz (It is the based frequency point that measured at nominal temperature and nominal voltage.)

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
5 VDC	50	15	0.017	±2.5
	40	36	0.043	
	30	10	0.011	
	20	25	0.029	
	10	20	0.023	
	0	34	0.040	
	-10	29	0.034	
	-20	21	0.025	
	-30	15	0.017	

CH 251 848.782371 MHz (It is the based frequency point that measured at nominal temperature and nominal voltage.)

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
5 VDC	50	21	0.024	±2.5
	40	48	0.056	
	30	25	0.029	
	20	36	0.042	
	10	13	0.015	
	0	38	0.044	
	-10	30	0.035	
	-20	27	0.031	
	-30	12	0.014	

CH 512 1850.267308 MHz (It is the based frequency point that measured at nominal temperature and nominal voltage.)

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
5 VDC	50	37	0.019	±2.5
	40	29	0.015	
	30	17	0.009	
	20	28	0.015	
	10	32	0.017	
	0	19	0.010	
	-10	21	0.011	
	-20	35	0.018	
	-30	26	0.014	

CH 661 1879.931891 MHz (It is the based frequency point that measured at nominal temperature and nominal voltage.)

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
5 VDC	50	39	0.020	±2.5
	40	21	0.011	
	30	17	0.009	
	20	30	0.015	
	10	26	0.013	
	0	35	0.018	
	-10	20	0.010	
	-20	27	0.014	
	-30	32	0.017	

CH 810 1909.735897 MHz (It is the based frequency point that measured at nominal temperature and nominal voltage.)

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
5 VDC	50	27	0.014	±2.5
	40	34	0.017	
	30	45	0.023	
	20	30	0.015	
	10	35	0.018	
	0	48	0.025	
	-10	21	0.010	
	-20	14	0.007	
	-30	31	0.016	

8.2.2 Frequency Stability vs. Voltage

CH 128

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
End Point Voltage 5 VDC	25	17	0.020	±2.5

CH 188

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
End Point Voltage 5 VDC	25	16	0.019	±2.5

CH 251

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
End Point Voltage 5 VDC	25	16	0.019	±2.5

CH 512

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
End Point Voltage 5 VDC	25	31	0.016	±2.5

CH 661

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
End Point Voltage 5 VDC	25	35	0.018	±2.5

CH 810

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
End Point Voltage 5 VDC	25	29	0.015	±2.5

Test equipment: ETSTW-CE009, ETSTW-RE 003, ETSTW-RE055, ETSTW-GSM 02

Appendix

- A RF Power Output
- B Occupied Bandwidth / Emission Mask
- C Spurious Emissions at Antenna Terminals
- D Filed Strength of Spurious Emission

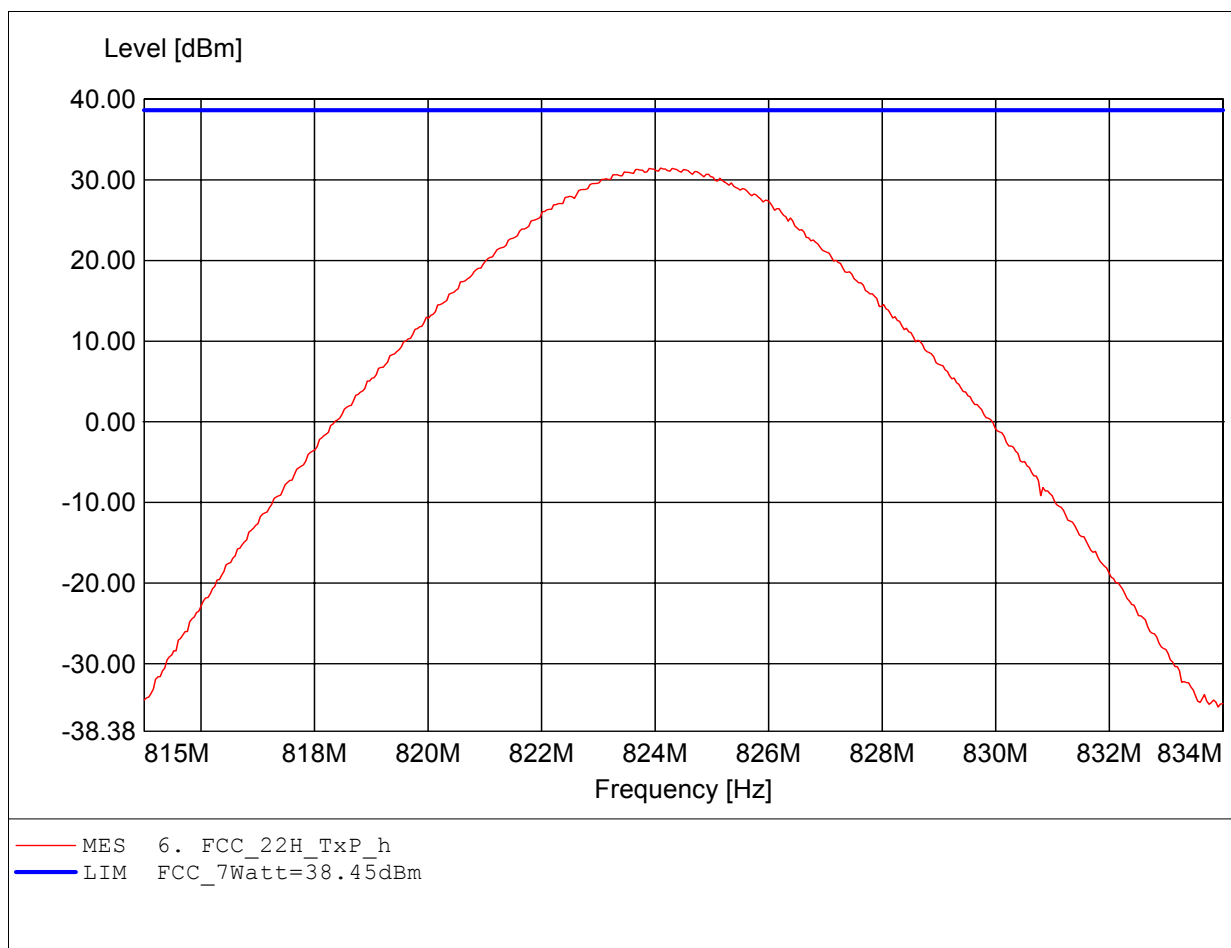
Appendix A

RF Power Output

Effective Radiated Power

FCC RULES PART 22 SUBPART H

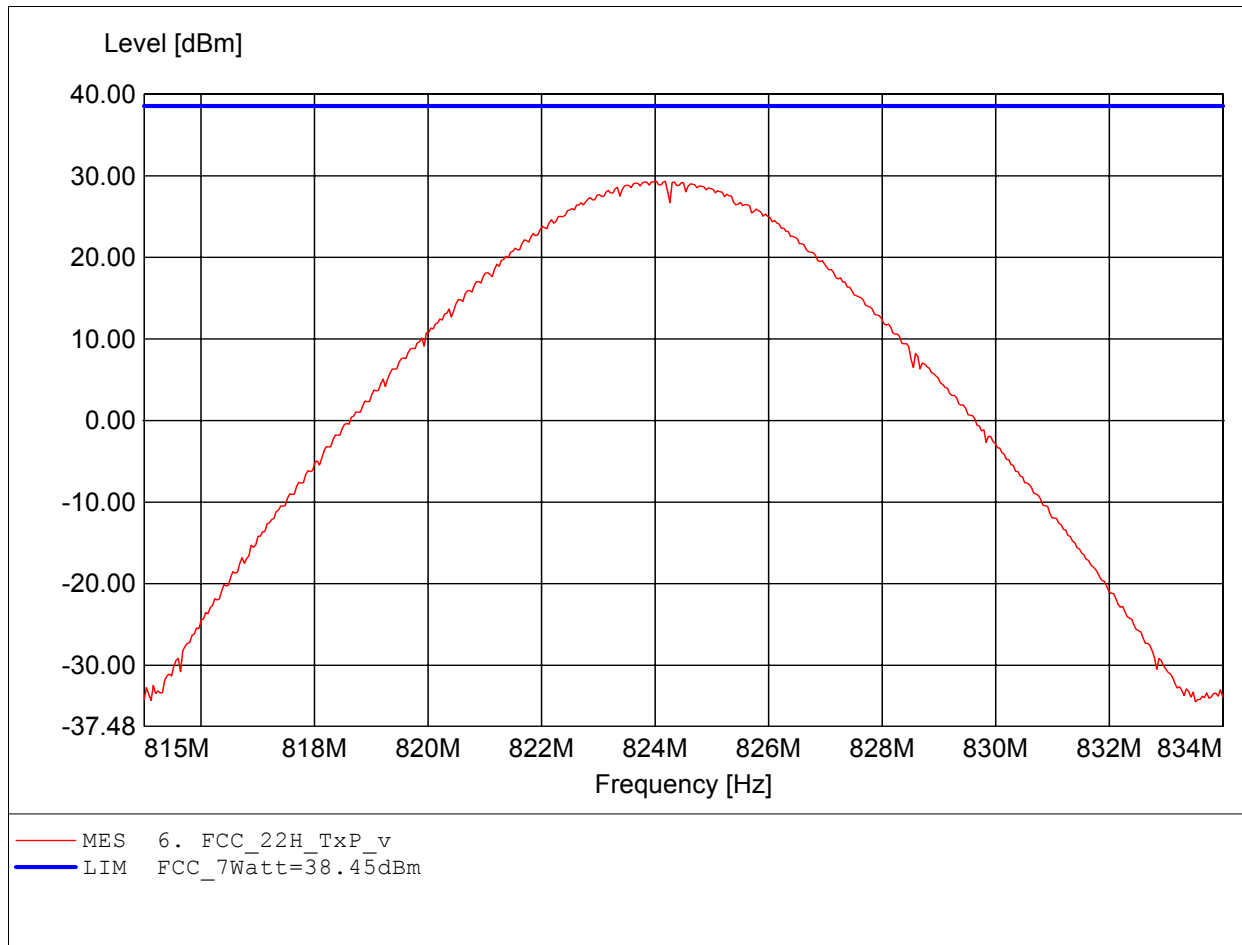
Order Number : W6M20612-7664 850Band CH128
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.913
Comment 1: Dist.: 3m, Ant.: HL223
Freq: 824.098MHz, Pmax: 31.47dBm, RBW: 3MHz



Effective Radiated Power

FCC RULES PART 22 SUBPART H

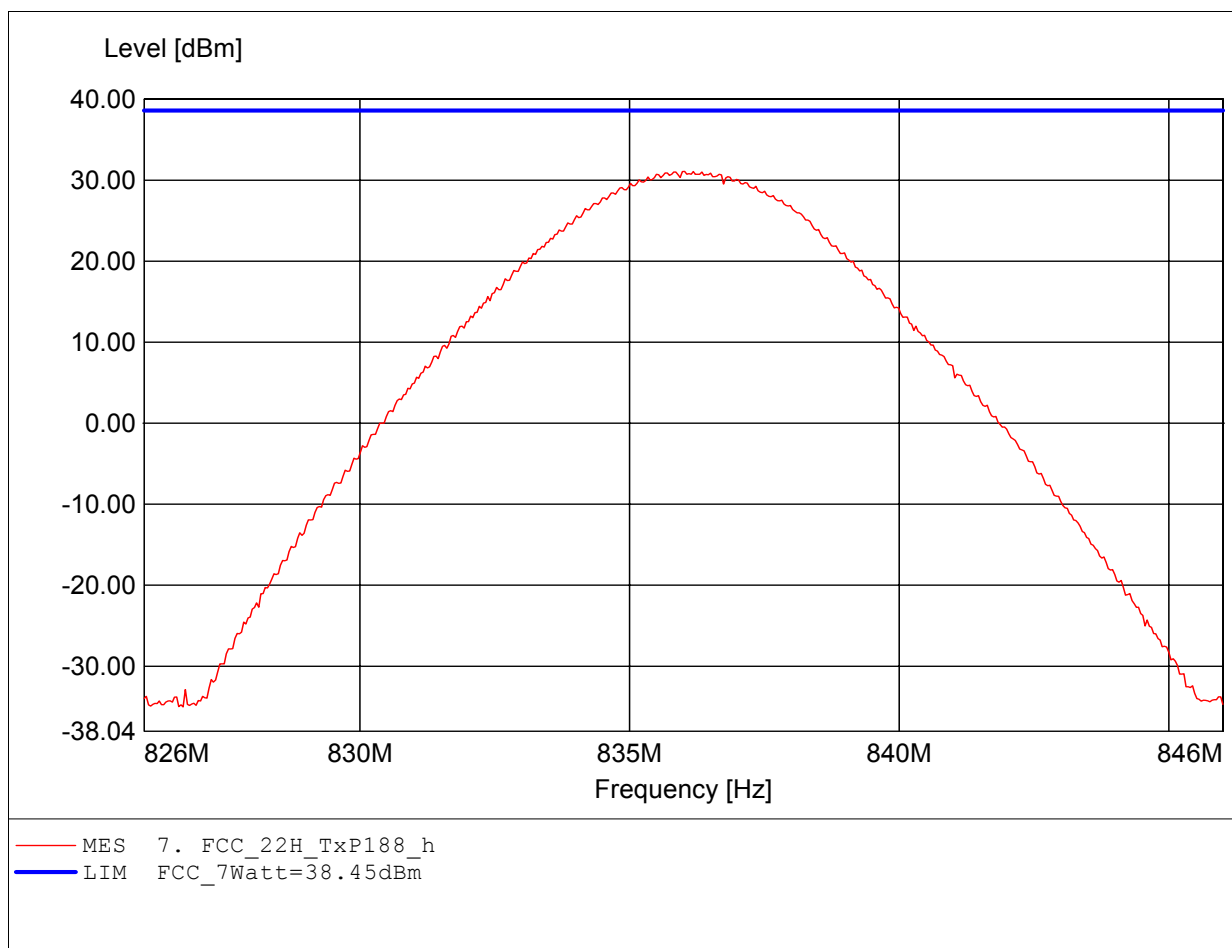
Order Number : W6M20612-7664 850Band CH128
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.913
Comment 1: Dist.: 3m, Ant.: HL223
Freq: 824.018MHz, Pmax: 29.36dBm, RBW: 3MHz



Effective Radiated Power

FCC RULES PART 22 SUBPART H

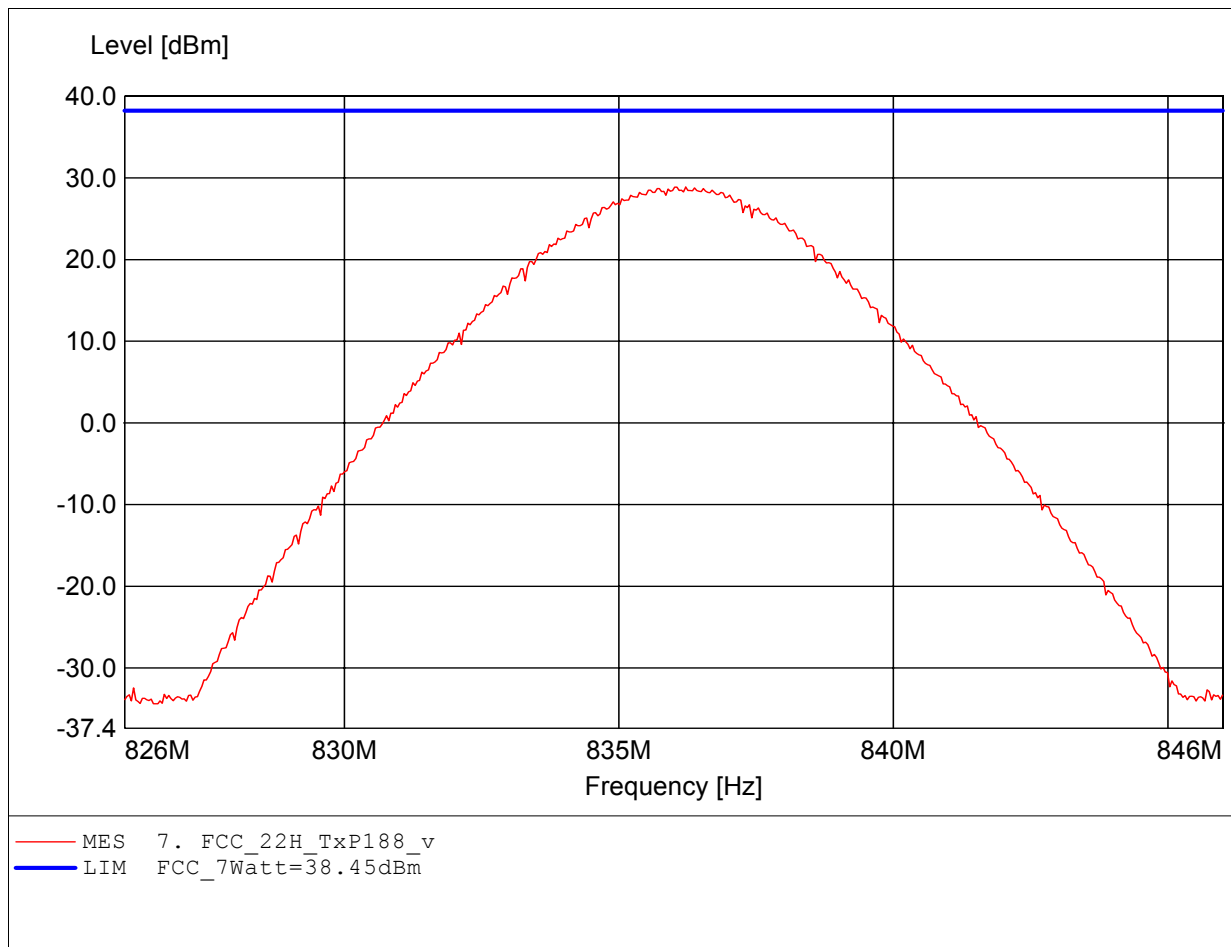
Order Number : W6M20612-7664 850Band CH188
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.913
Comment 1: Dist.: 3m, Ant.: HL223
Freq: 836.020MHz, Pmax: 31.08dBm, RBW: 3MHz



Effective Radiated Power

FCC RULES PART 22 SUBPART H

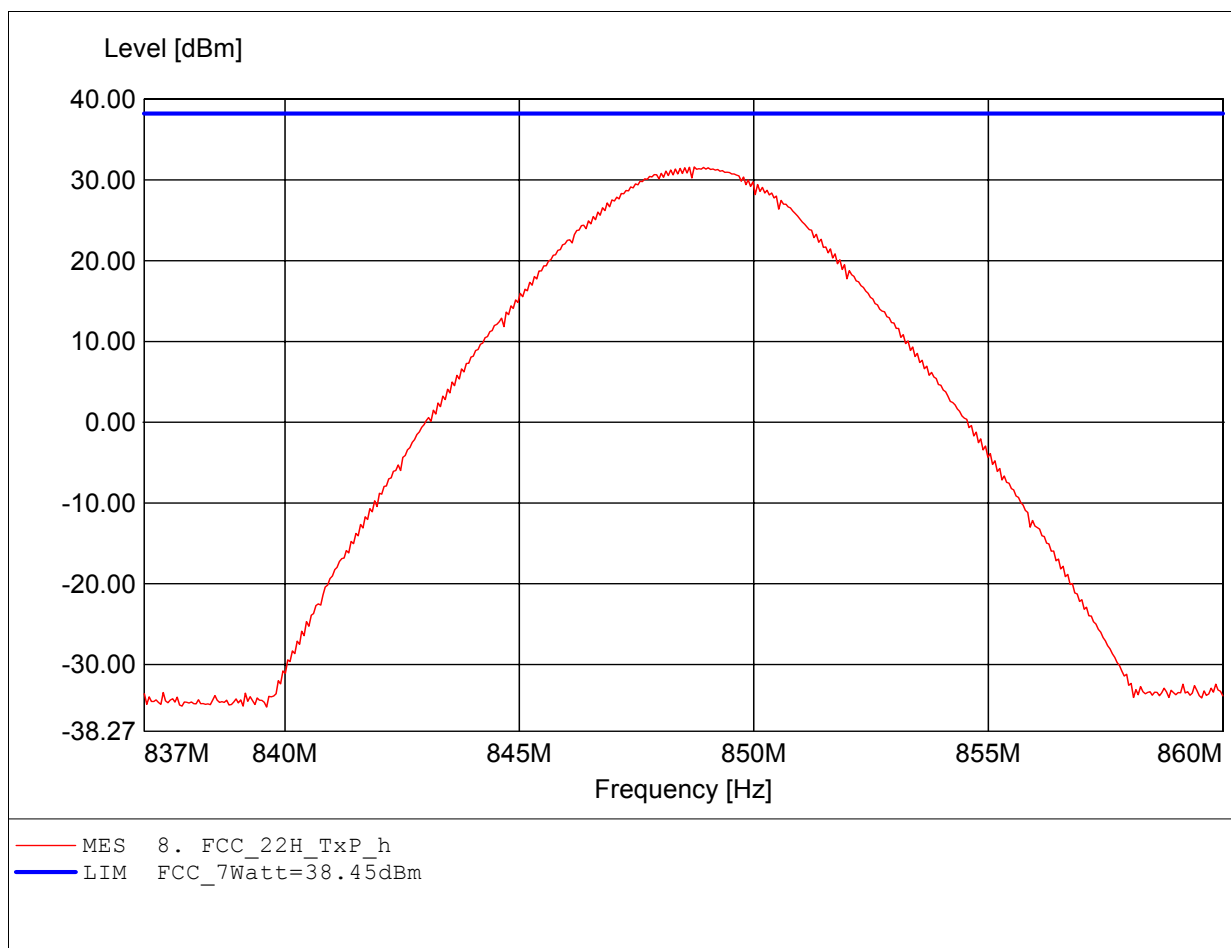
Order Number : W6M20612-7664 850Band CH188
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.913
Comment 1: Dist.: 3m, Ant.: HL223
Freq: 836.020MHz, Pmax: 28.88dBm, RBW: 3MHz



Effective Radiated Power

FCC RULES PART 22 SUBPART H

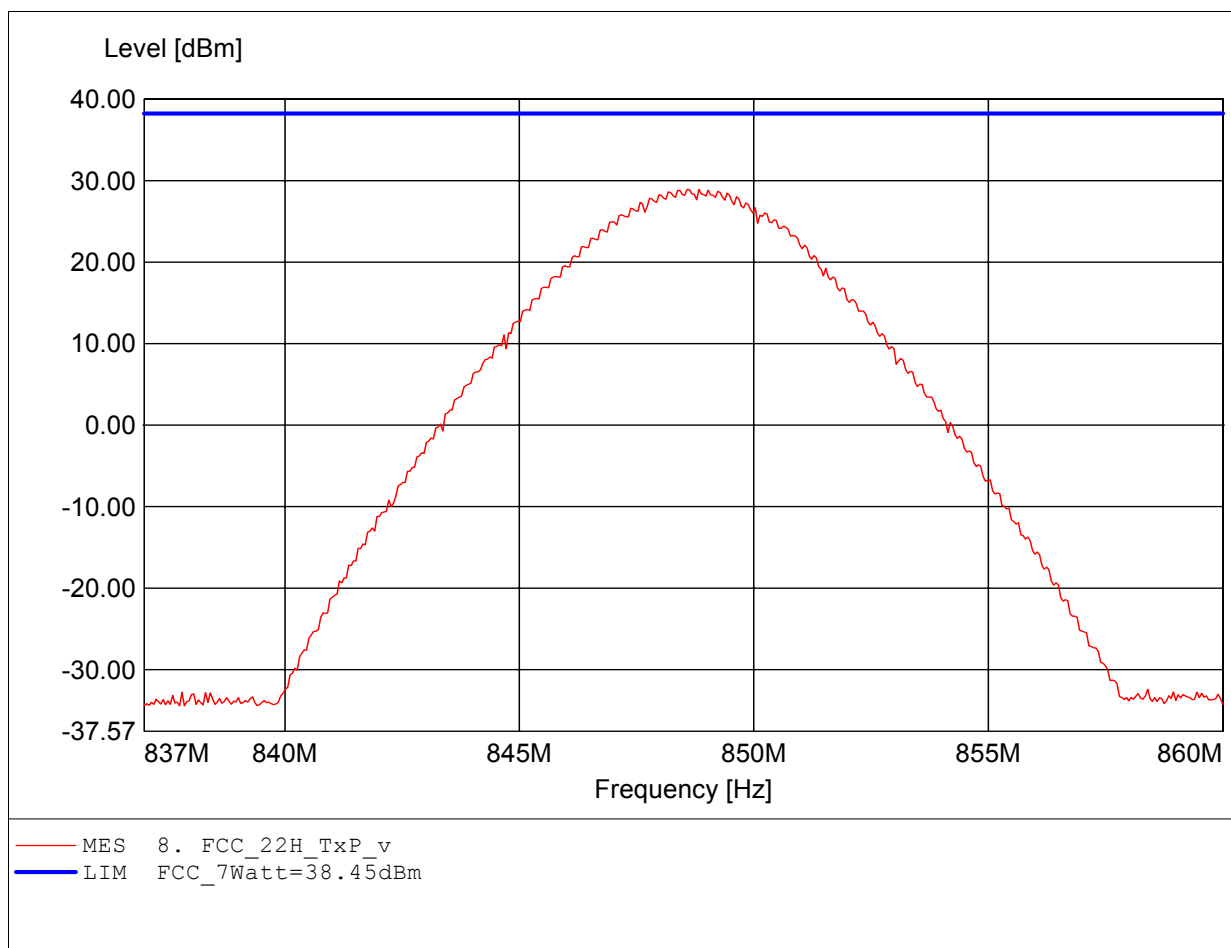
Order Number : W6M20612-7664 850Band CH251
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.913
Comment 1: Dist.: 3m, Ant.: HL223
Freq: 848.727MHz, Pmax: 31.61dBm, RBW: 3MHz



Effective Radiated Power

FCC RULES PART 22 SUBPART H

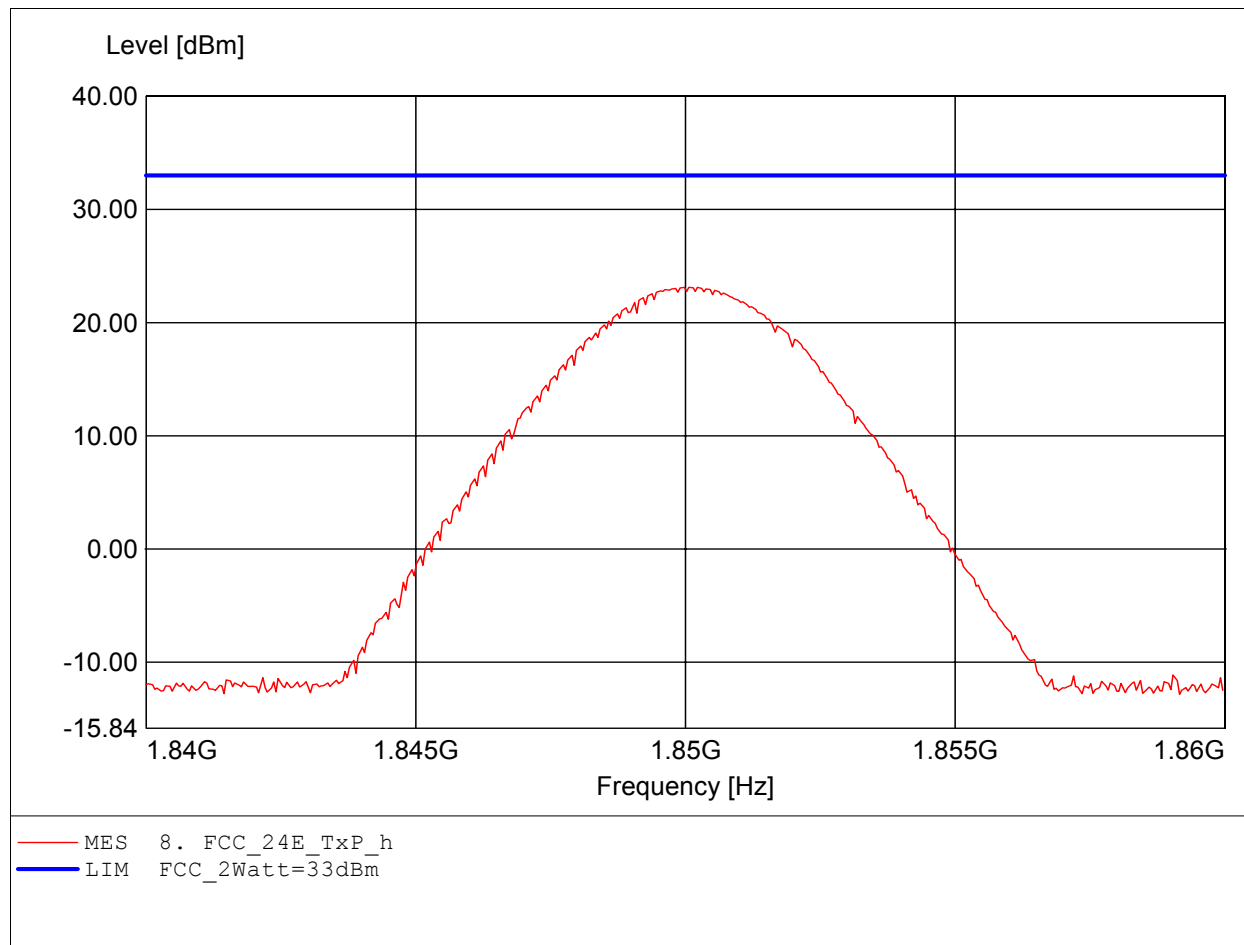
Order Number : W6M20612-7664 850Band CH251
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.913
Comment 1: Dist.: 3m, Ant.: HL223
Freq: 848.828MHz, Pmax: 28.92dBm, RBW: 3MHz



Equivalent Isotropically Radiated Power

FCC RULES PART 24 SUBPART E

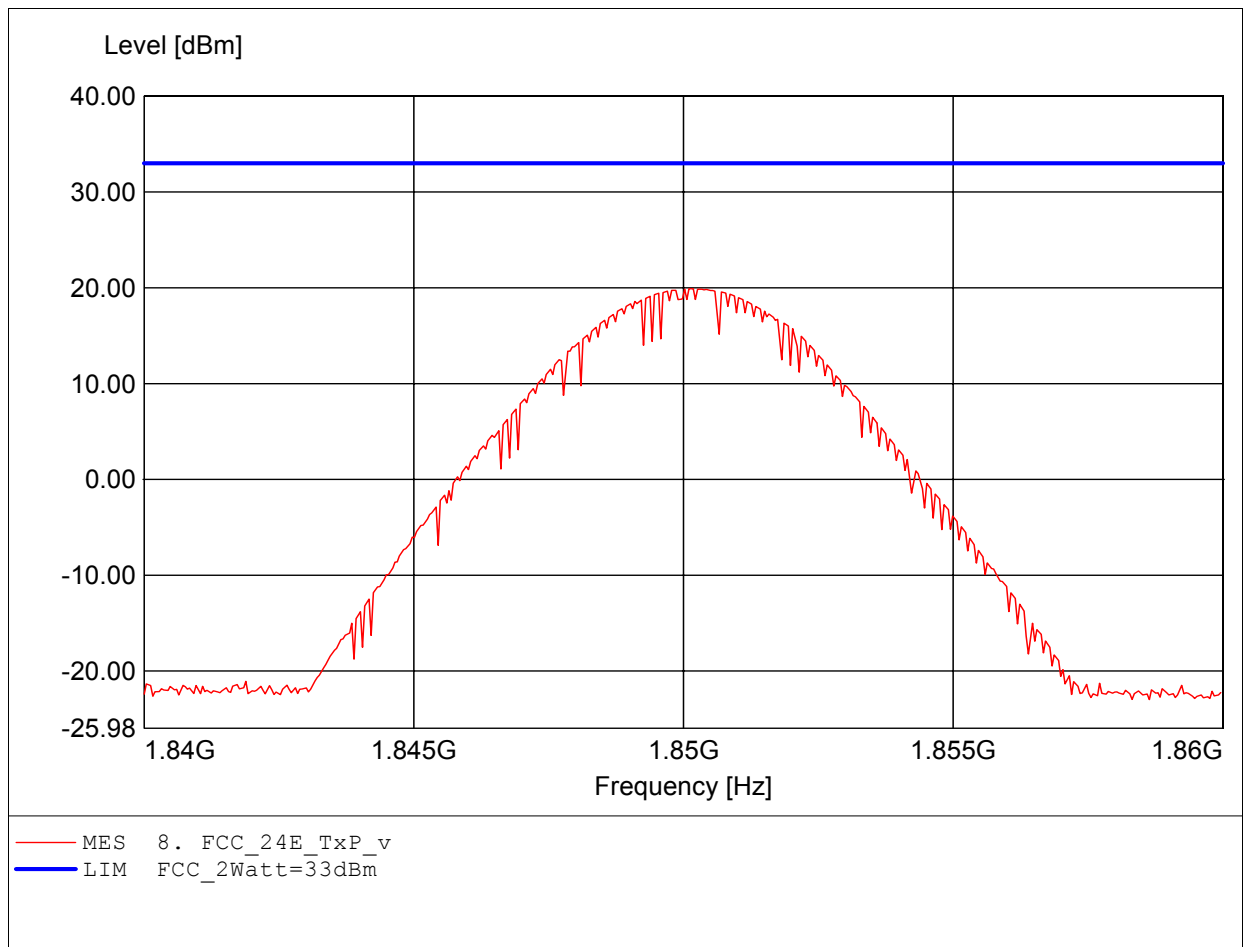
Order Number : W6M20612-7664 1900 band ch512
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.232
Comment 1: Dist.: 3m, Ant.: HL025,PCL 0
Freq: 1.850GHz, Pmax: 24.12dBm, RBW: 3MHz



Equivalent Isotropically Radiated Power

FCC RULES PART 24 SUBPART E

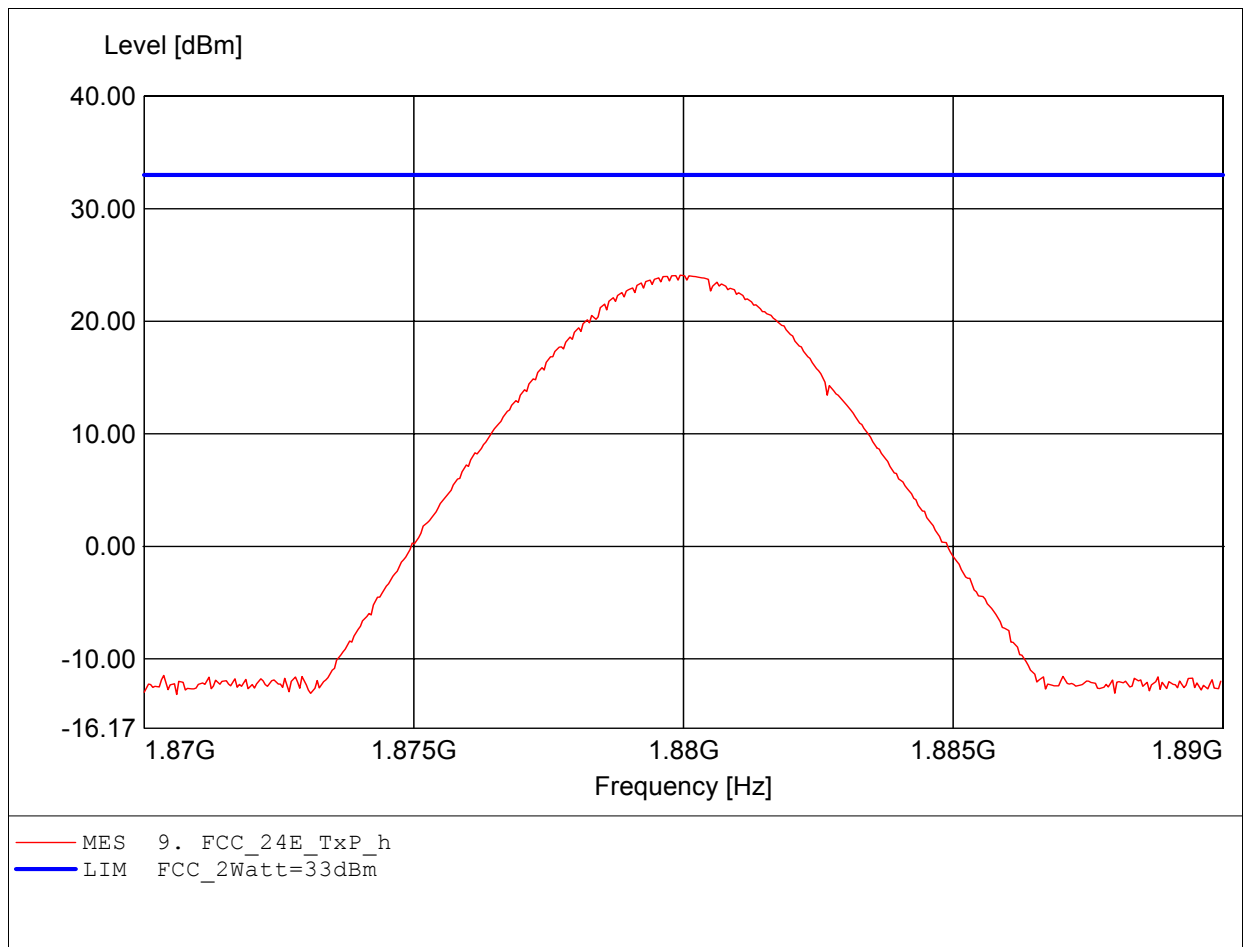
Order Number : W6M20612-7664 1900 band ch512
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.232
Comment 1: Dist.: 3m, Ant.: HL025,PCL 0
Freq: 1.850GHz, Pmax: 19.90dBm, RBW: 3MHz



Equivalent Isotropically Radiated Power

FCC RULES PART 24 SUBPART E

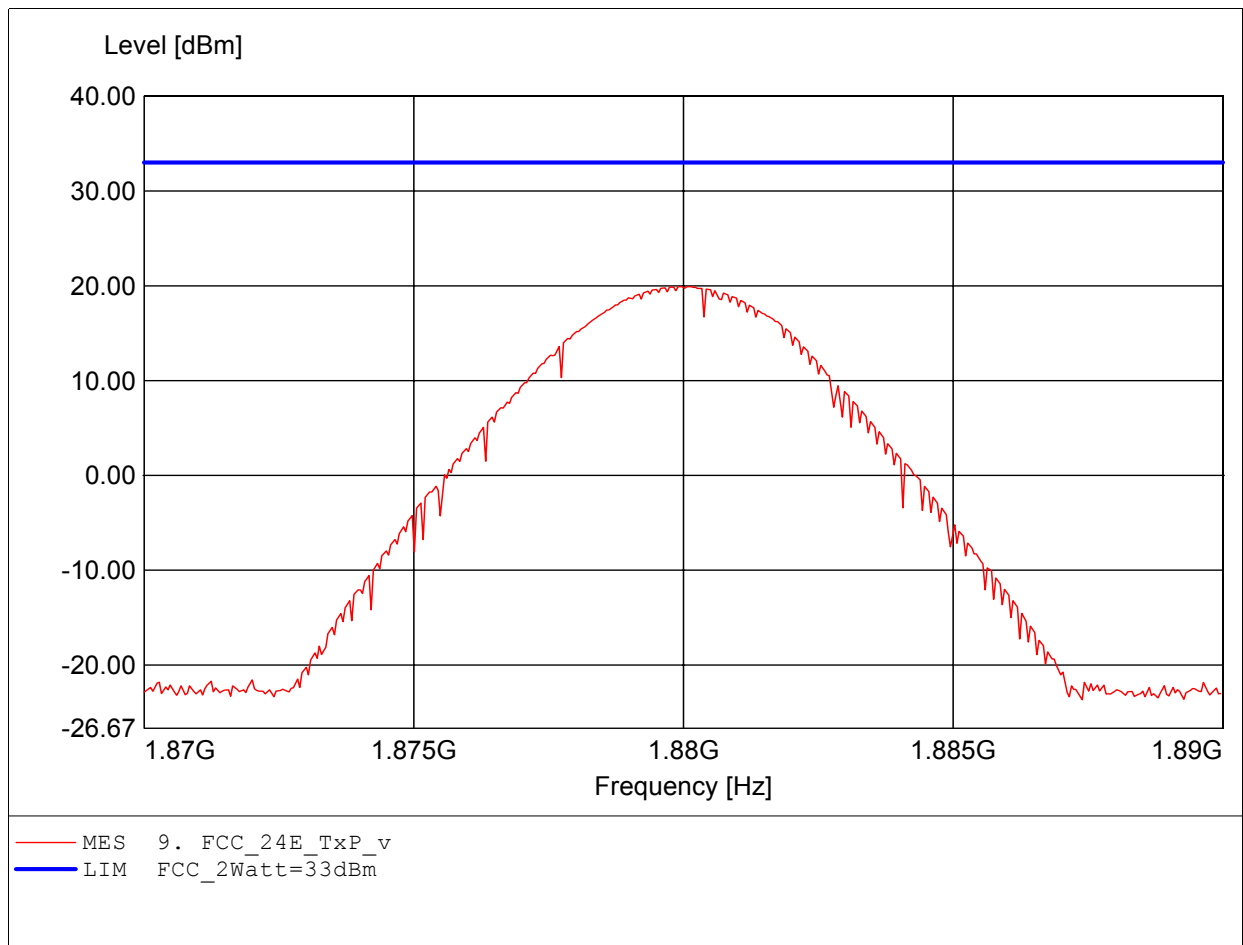
Order Number : W6M20612-7664 1900 band ch661
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.232
Comment 1: Dist.: 3m, Ant.: HL025,PCL 0
Freq: 1.880GHz, Pmax: 25.10dBm, RBW: 3MHz



Equivalent Isotropically Radiated Power

FCC RULES PART 24 SUBPART E

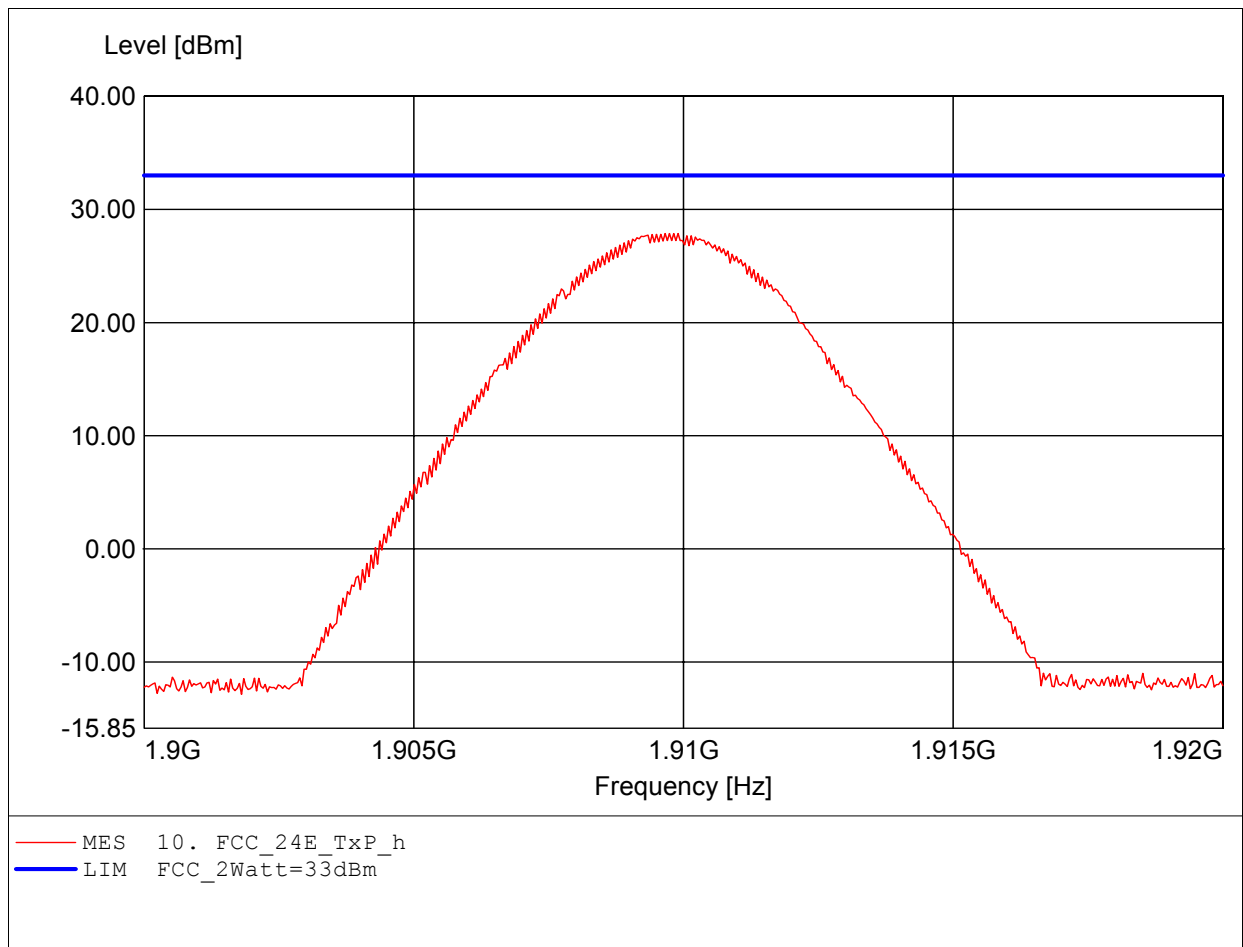
Order Number : W6M20612-7664 1900 band ch661
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.232
Comment 1: Dist.: 3m, Ant.: HL025,PCL 0
Freq: 1.880GHz, Pmax: 19.92dBm, RBW: 3MHz



Equivalent Isotropically Radiated Power

FCC RULES PART 24 SUBPART E

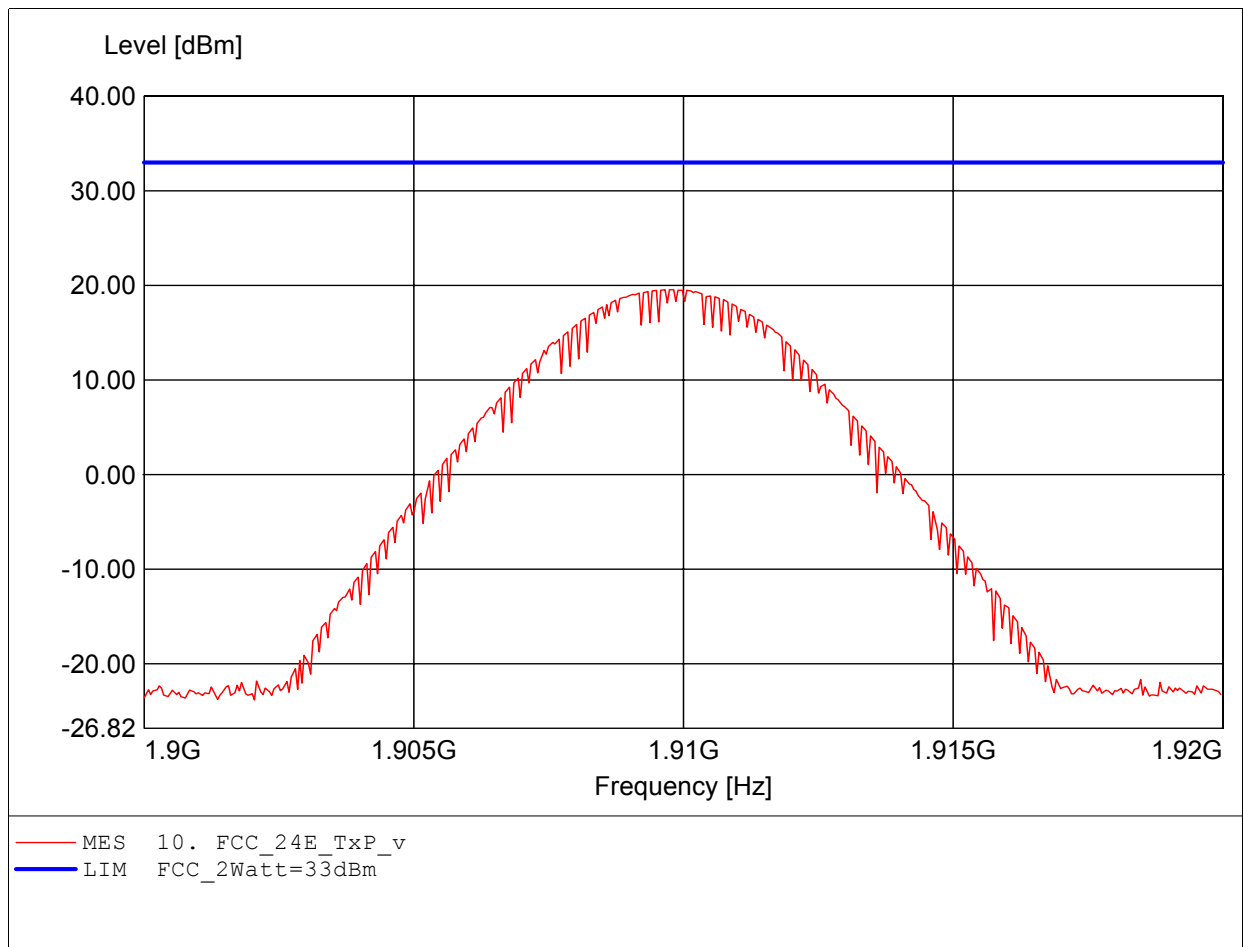
Order Number : W6M20612-7664 1900 band ch810
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.232
Comment 1: Dist.: 3m, Ant.: HL025,PCL 0
Freq: 1.910GHz, Pmax: 28.16dBm, RBW: 3MHz



Equivalent Isotropically Radiated Power

FCC RULES PART 24 SUBPART E

Order Number : W6M20612-7664 1900 band ch810
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.232
Comment 1: Dist.: 3m, Ant.: HL025,PCL 0
Freq: 1.910GHz, Pmax: 19.55dBm, RBW: 3MHz

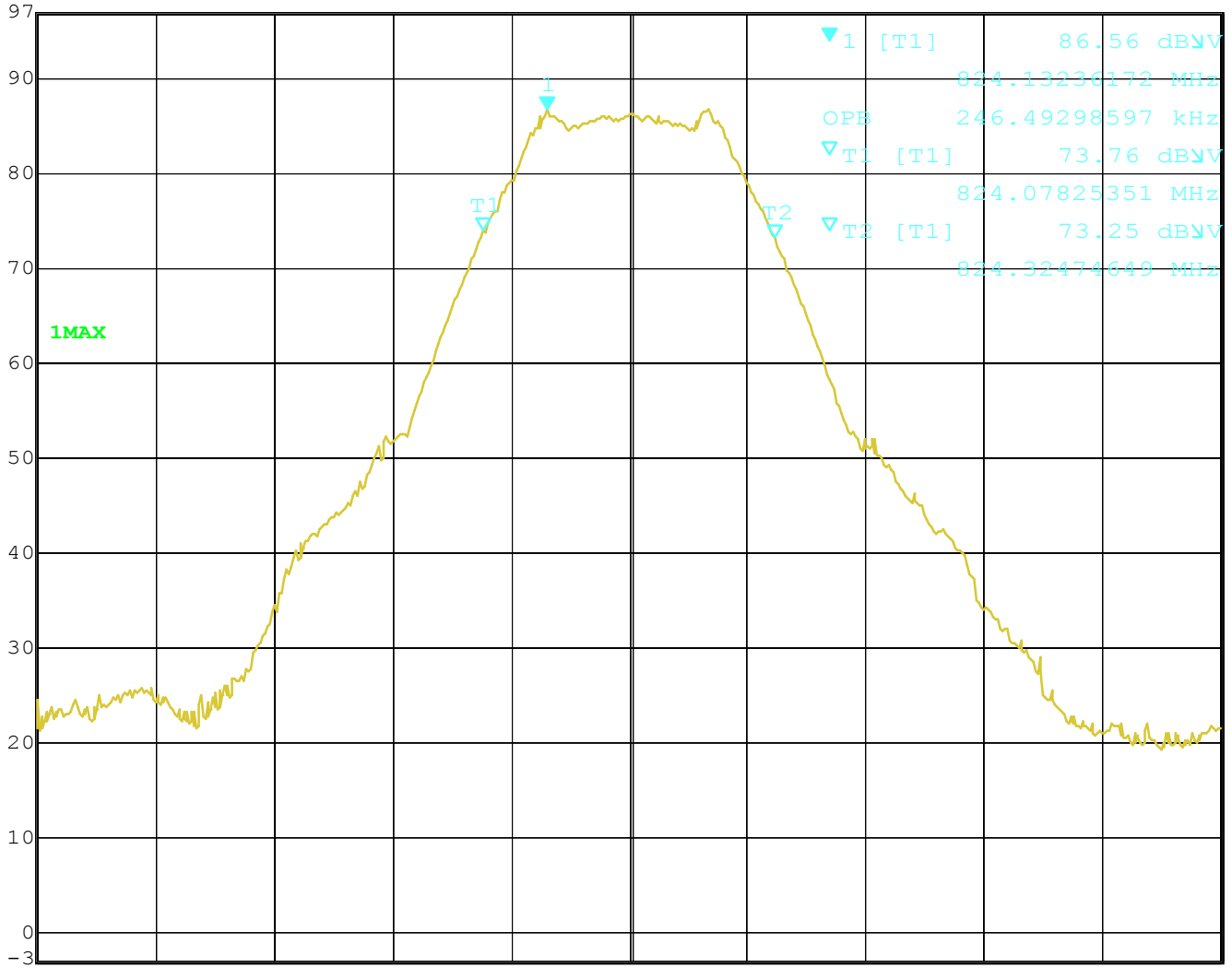


Appendix B

Occupied Bandwidth / Emission Mask



Marker 1 [T1] RBW 30 kHz RF Att 0 dB
Ref Lvl 86.56 dBμV VBW 30 kHz
97 dBμV 824.13236172 MHz SWT 200 ms Unit dBμV

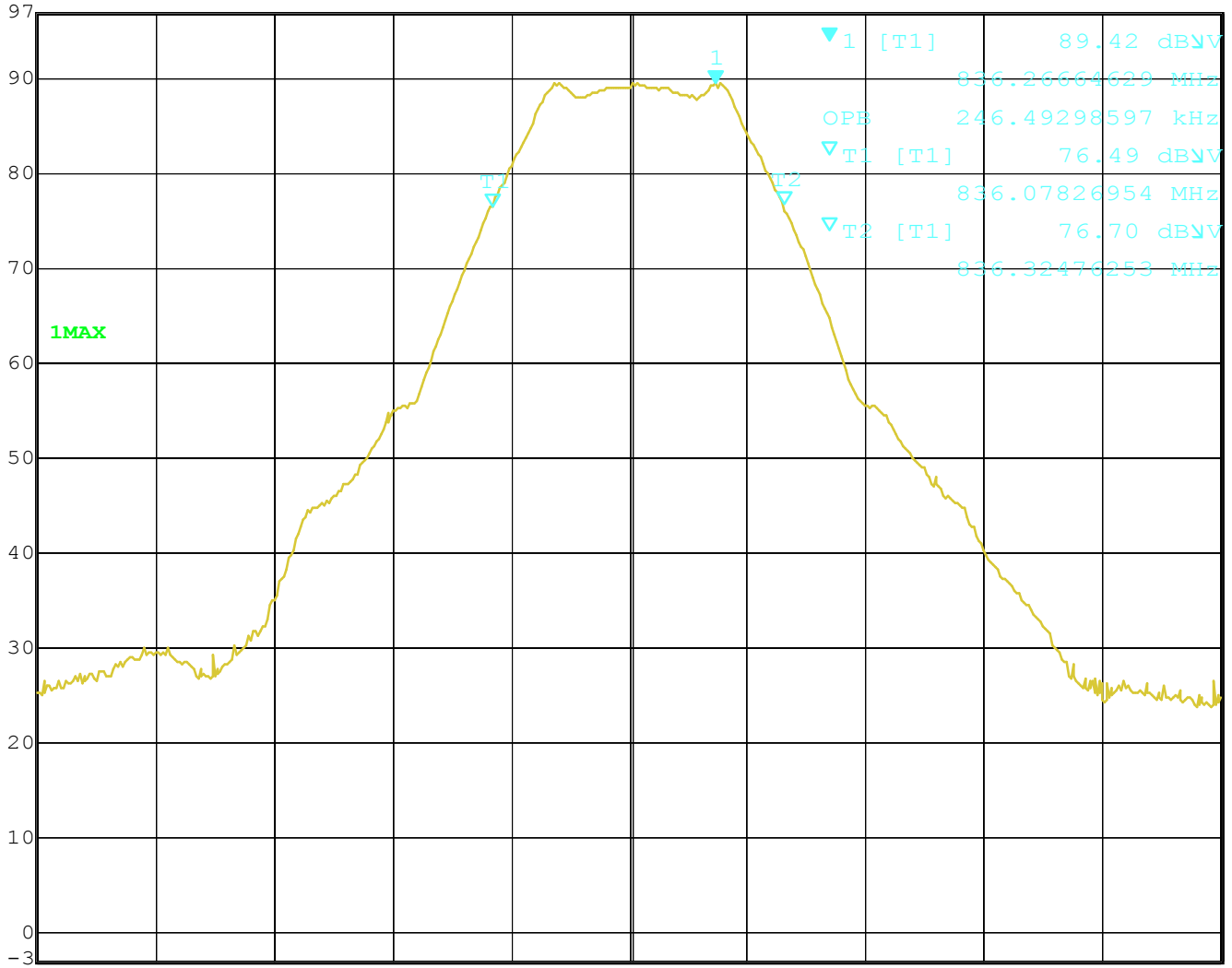


Center 824.2015 MHz 100 kHz/ Span 1 MHz

Date: 29.DEC.2006 15:04:32



Marker 1 [T1] RBW 30 kHz RF Att 0 dB
Ref Lvl 89.42 dBμV VBW 30 kHz
97 dBμV 836.26664629 MHz SWT 200 ms Unit dBμV

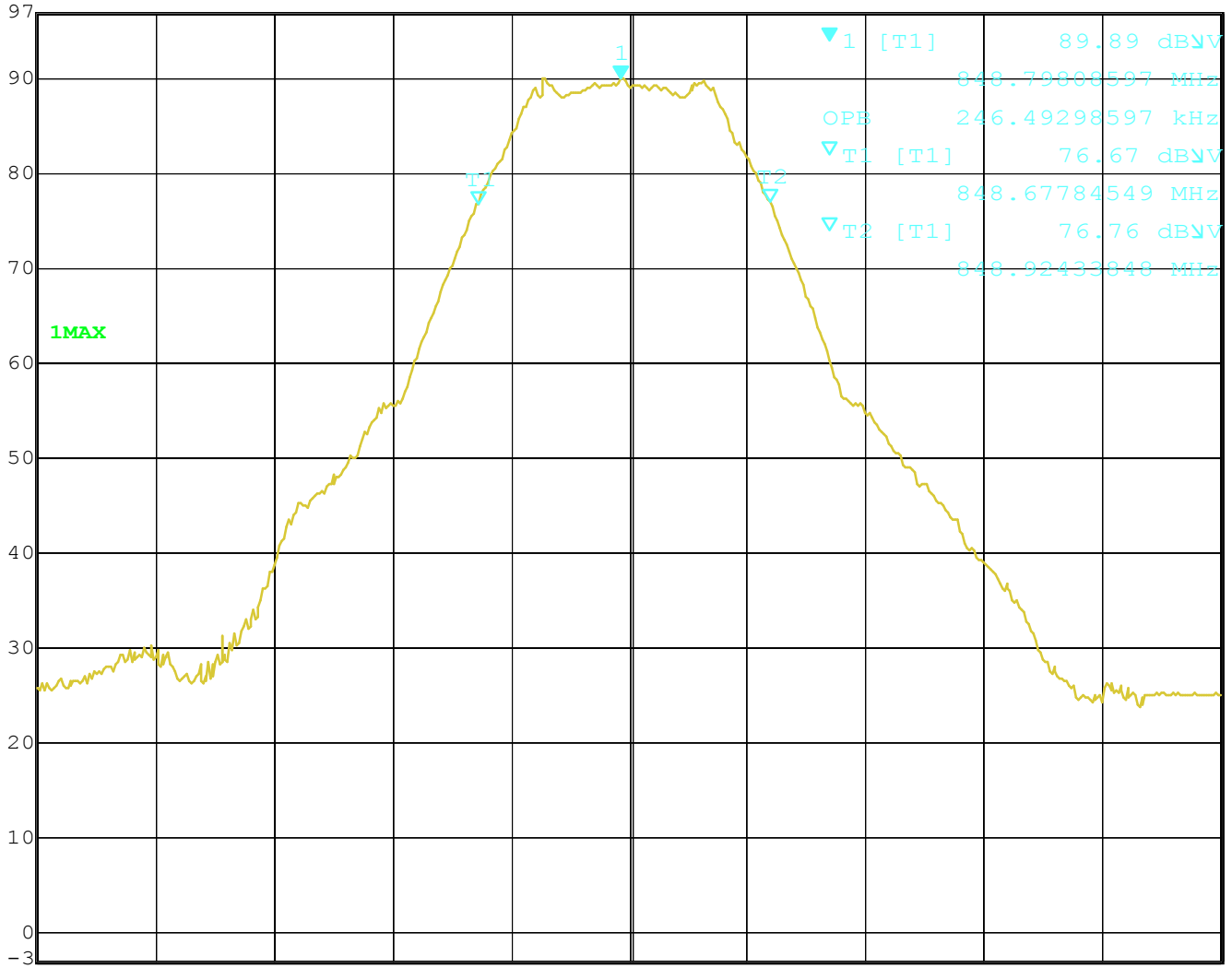


Center 836.1935 MHz 100 kHz/ Span 1 MHz

Date: 29.DEC.2006 15:02:34



Marker 1 [T1] RBW 30 kHz RF Att 0 dB
 Ref Lvl 89.89 dBμV VBW 30 kHz
 97 dBμV 848.79808597 MHz SWT 200 ms Unit dBμV

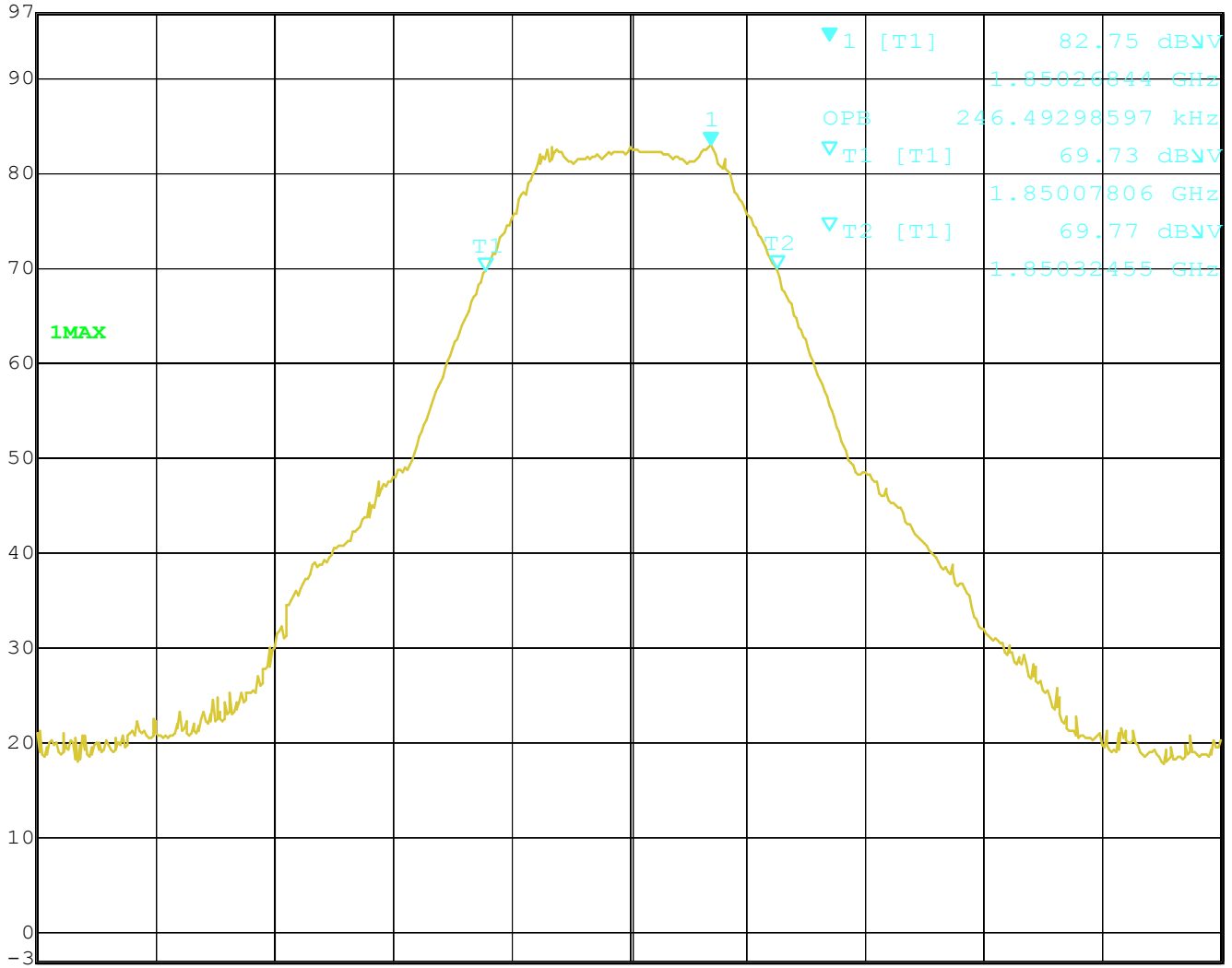


Center 848.8051 MHz 100 kHz/ Span 1 MHz

Date: 29.DEC.2006 15:06:07



Marker 1 [T1] RBW 30 kHz RF Att 0 dB
Ref Lvl 82.75 dBμV VBW 30 kHz
97 dBμV 1.85026844 GHz SWT 200 ms Unit dBμV

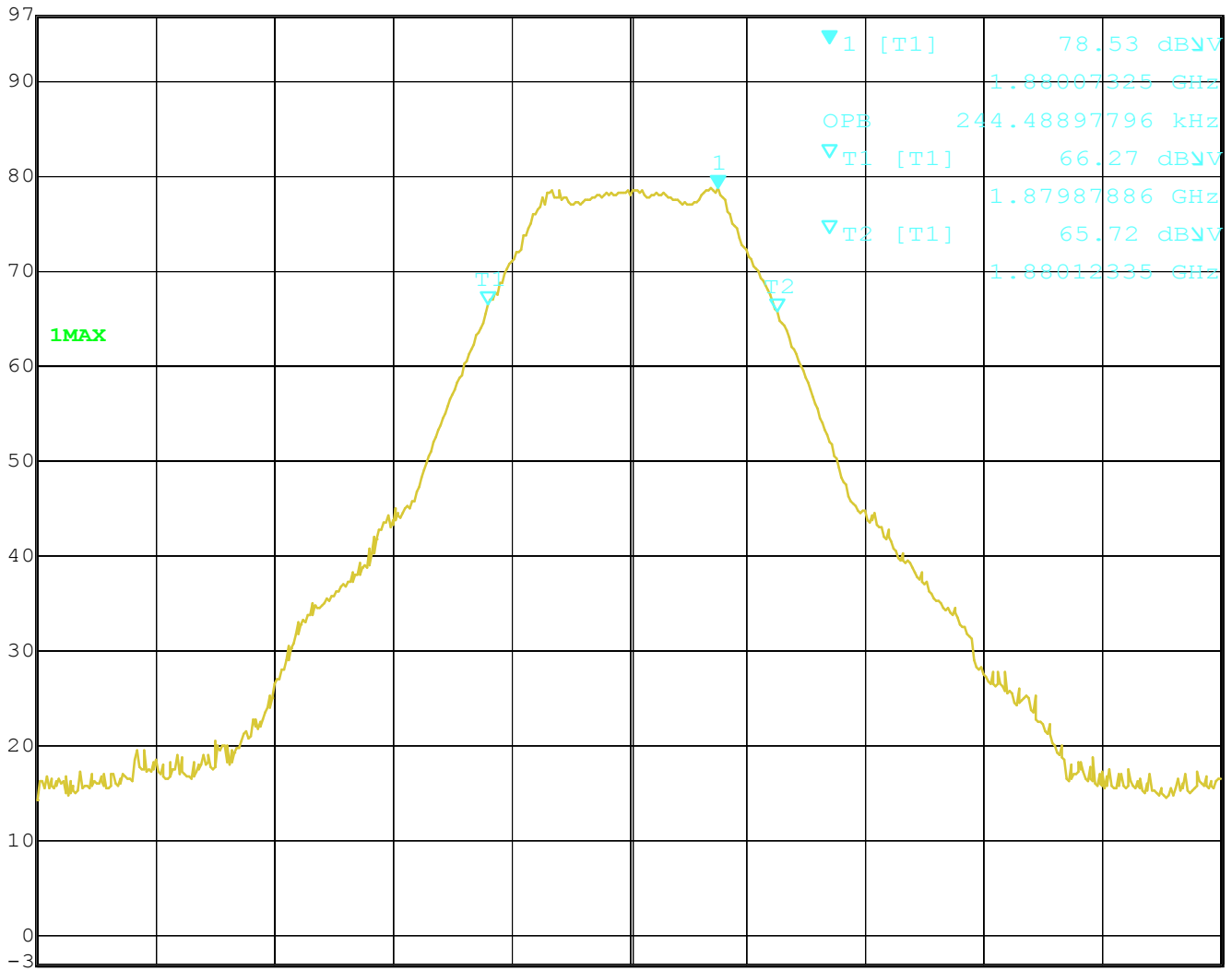


Center 1.8501993 GHz 100 kHz/ Span 1 MHz

Date: 29.DEC.2006 15:17:40



Marker 1 [T1] RBW 30 kHz RF Att 0 dB
Ref Lvl 78.53 dBμV VBW 30 kHz
97 dBμV 1.88007325 GHz SWT 200 ms Unit dBμV

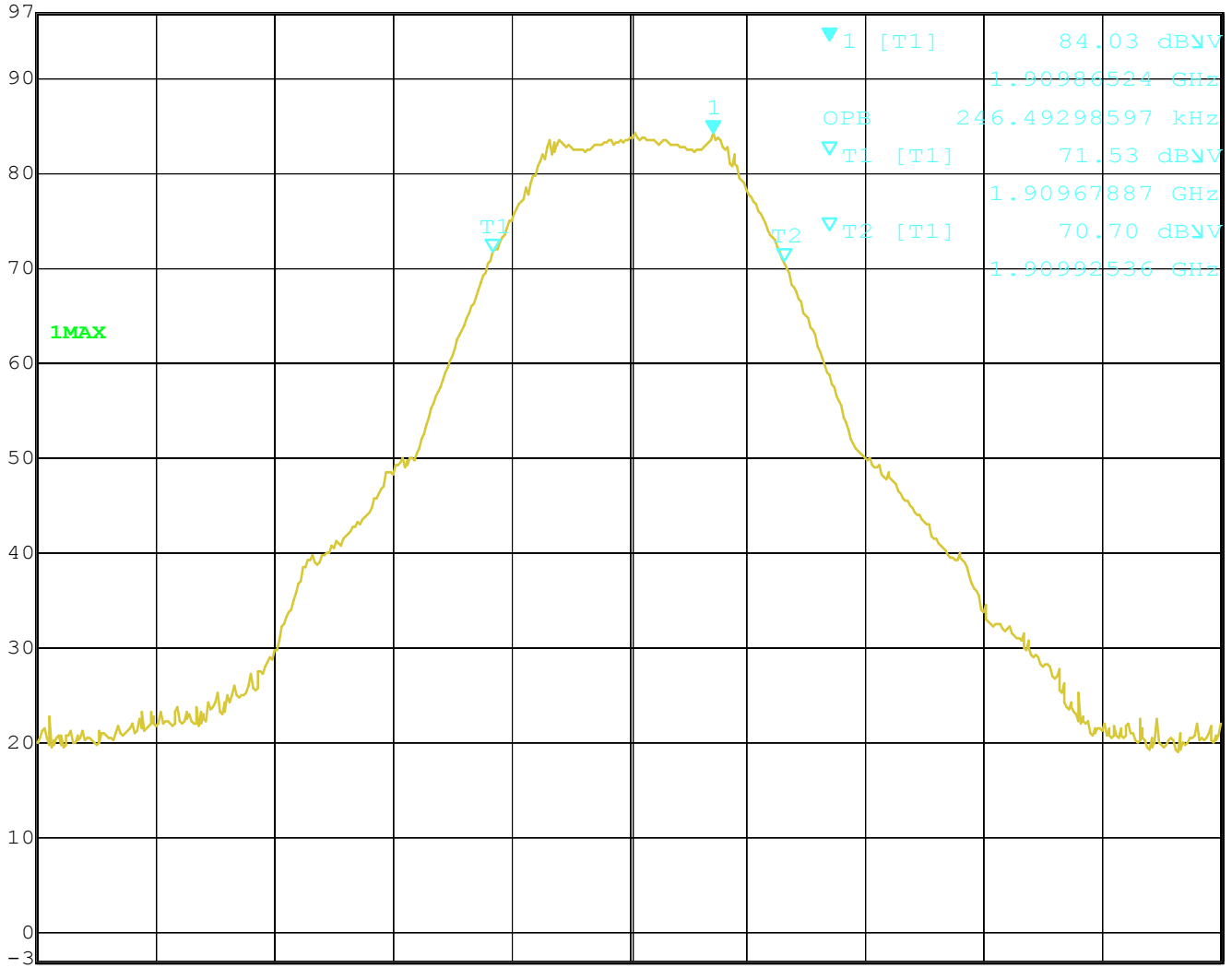


Center 1.8799981 GHz 100 kHz/ Span 1 MHz

Date: 29.DEC.2006 15:16:17



Marker 1 [T1] RBW 30 kHz RF Att 0 dB
Ref Lvl 84.03 dBμV VBW 30 kHz
97 dBμV 1.90986524 GHz SWT 200 ms Unit dBμV



Center 1.9097941 GHz 100 kHz/ Span 1 MHz

Date: 29.DEC.2006 15:19:02



*RBW 30 kHz
*VBW 30 kHz
SWT 5 ms

Marker 1 [T1]

-6.98 dBm

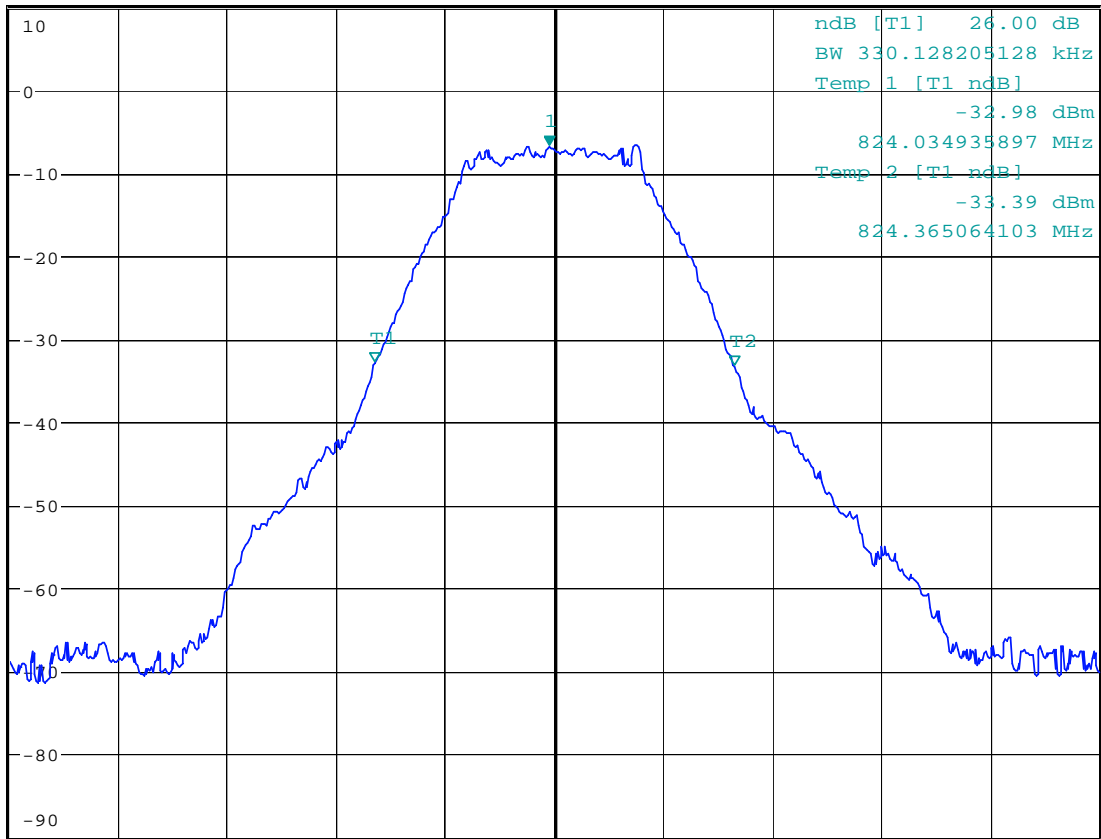
824.195192308 MHz

Ref 10 dBm

*Att 20 dB

SWT 5 ms

1 PK
MAXH



Center 824.2 MHz

100 kHz/

Span 1 MHz

26dB BANDWIDTH GSM 850 CH128

Date: 2.JAN.2007 14:54:09



*RBW 30 kHz
*VBW 30 kHz
SWT 5 ms

Ref 10 dBm

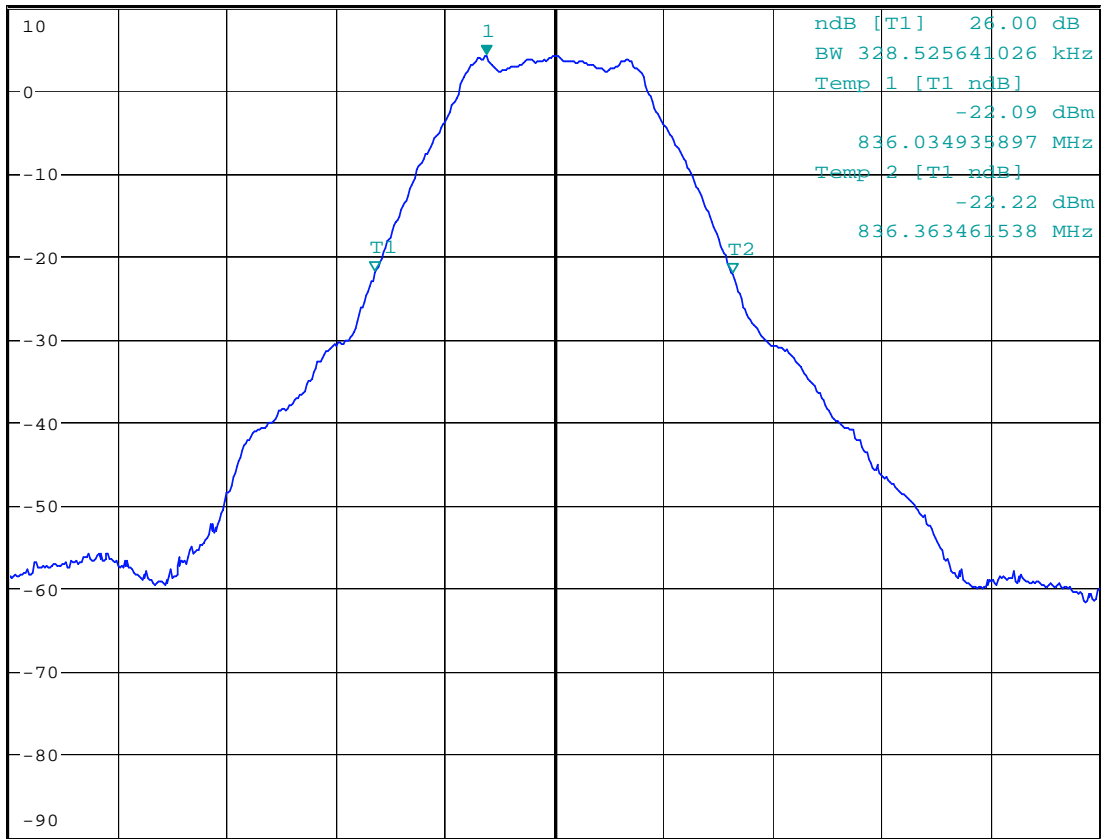
*Att 20 dB

Marker 1 [T1]

3.94 dBm

836.137500000 MHz

1 PK
MAXH



Center 836.2 MHz

100 kHz/

Span 1 MHz

26dB BANDWIDTH GSM 850 CH188

Date: 2.JAN.2007 14:53:21



*RBW 30 kHz
*VBW 30 kHz
SWT 5 ms

Marker 1 [T1]

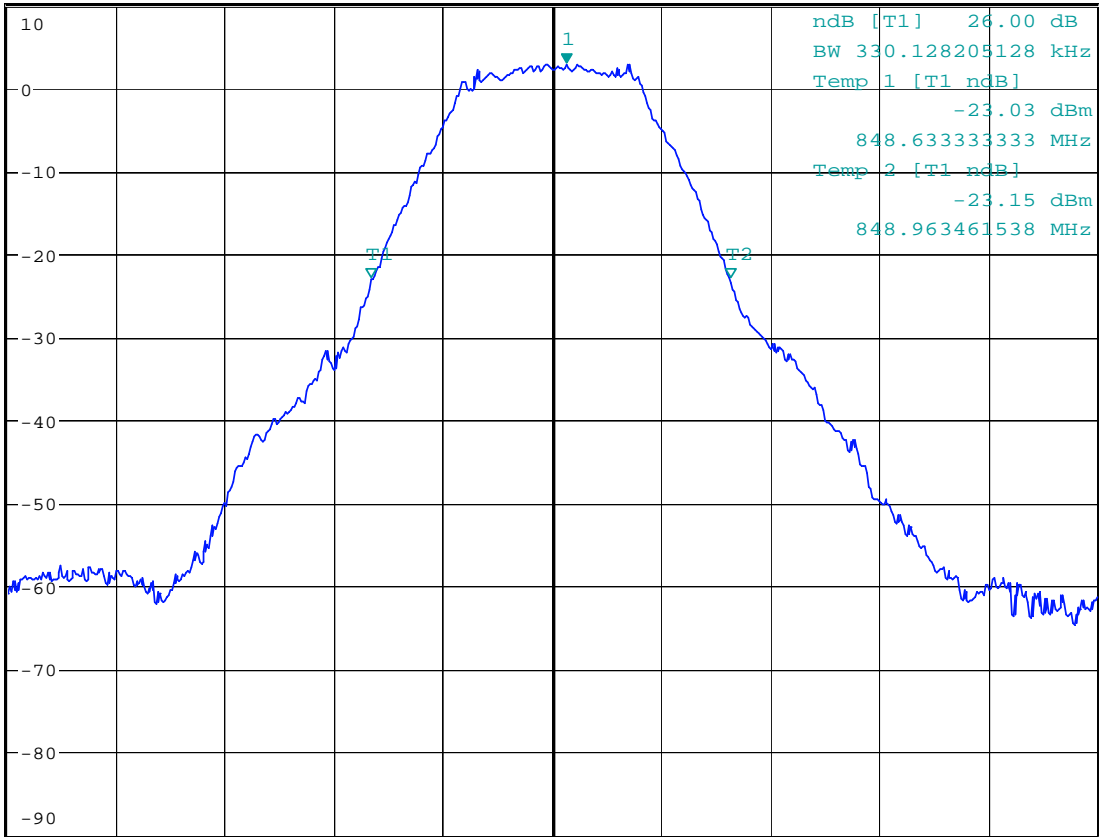
2.66 dBm

Ref 10 dBm

*Att 20 dB

848.812820513 MHz

1 PK
MAXH



Center 848.8 MHz

100 kHz/

Span 1 MHz

26dB BANDWIDTH GSM 850 CH251

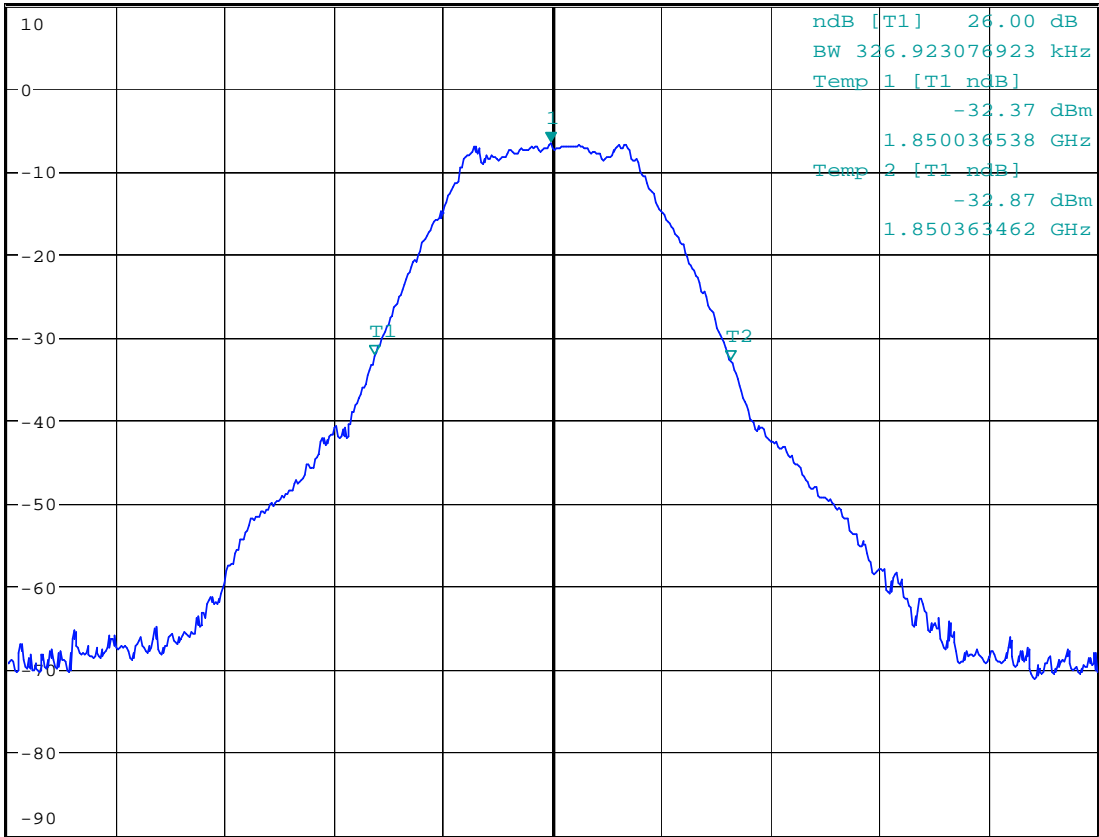
Date: 2.JAN.2007 14:54:47



*RBW 30 kHz Marker 1 [T1]
*VBW 30 kHz -6.77 dBm
SWT 5 ms 1.850198397 GHz

Ref 10 dBm *Att 20 dB

1 PK
MAXH



Center 1.8502 GHz

100 kHz/

Span 1 MHz

26dB BANDWIDTH GSM 1900 CH512

Date: 2.JAN.2007 14:57:52



*RBW 30 kHz
*VBW 30 kHz
SWT 5 ms

Marker 1 [T1]

0.58 dBm

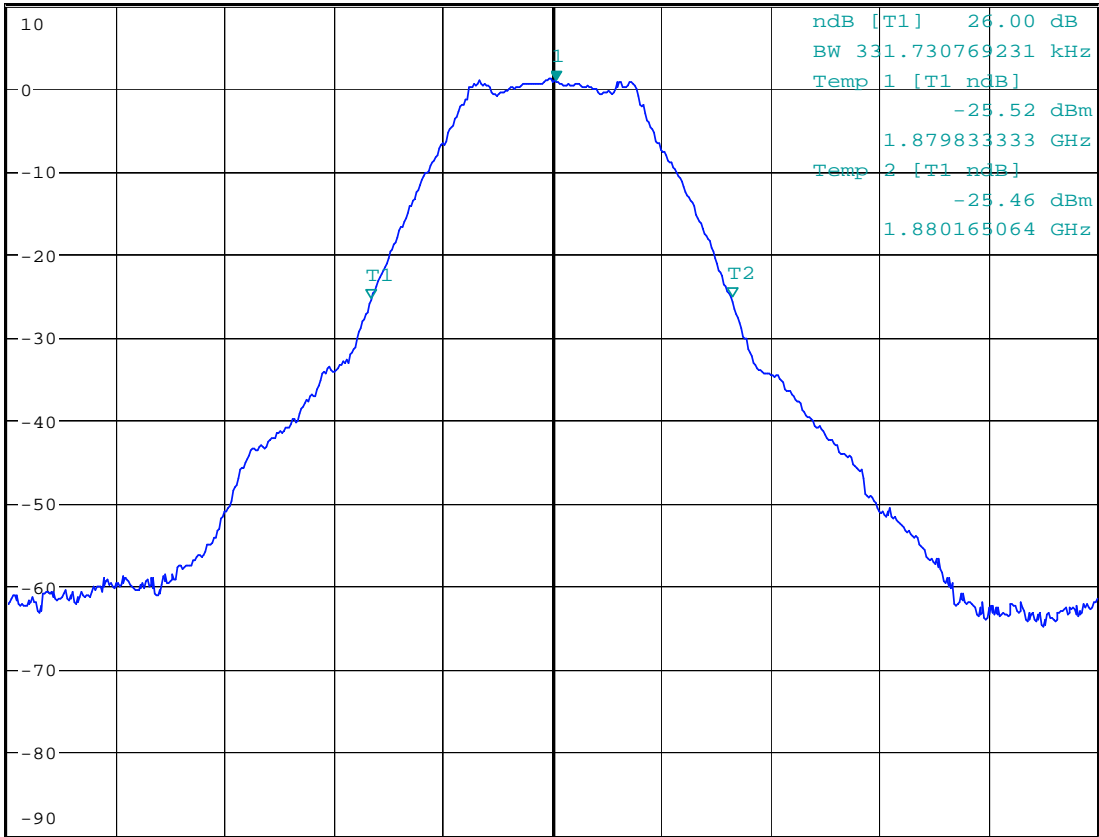
Ref 10 dBm

*Att 20 dB

SWT 5 ms

1.880003205 GHz

1 PK
MAXH



Center 1.88 GHz

100 kHz/

Span 1 MHz

26dB BANDWIDTH GSM 1900 CH661

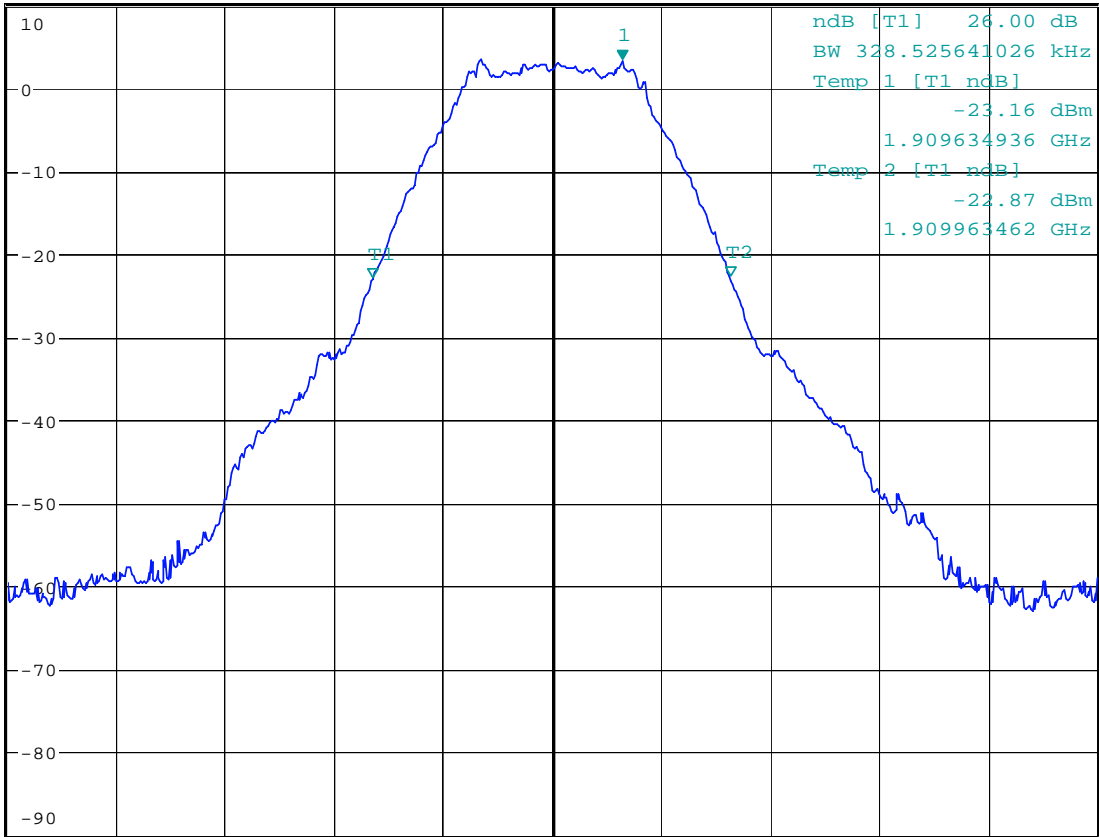
Date: 2.JAN.2007 14:57:10



*RBW 30 kHz Marker 1 [T1]
*VBW 30 kHz 3.19 dBm
SWT 5 ms 1.909864103 GHz

Ref 10 dBm *Att 20 dB

1 PK
MAXH



Center 1.9098 GHz 100 kHz/ Span 1 MHz

26dB BANDWIDTH GSM 1900 CH810

Date: 2.JAN.2007 14:58:50

Appendix C

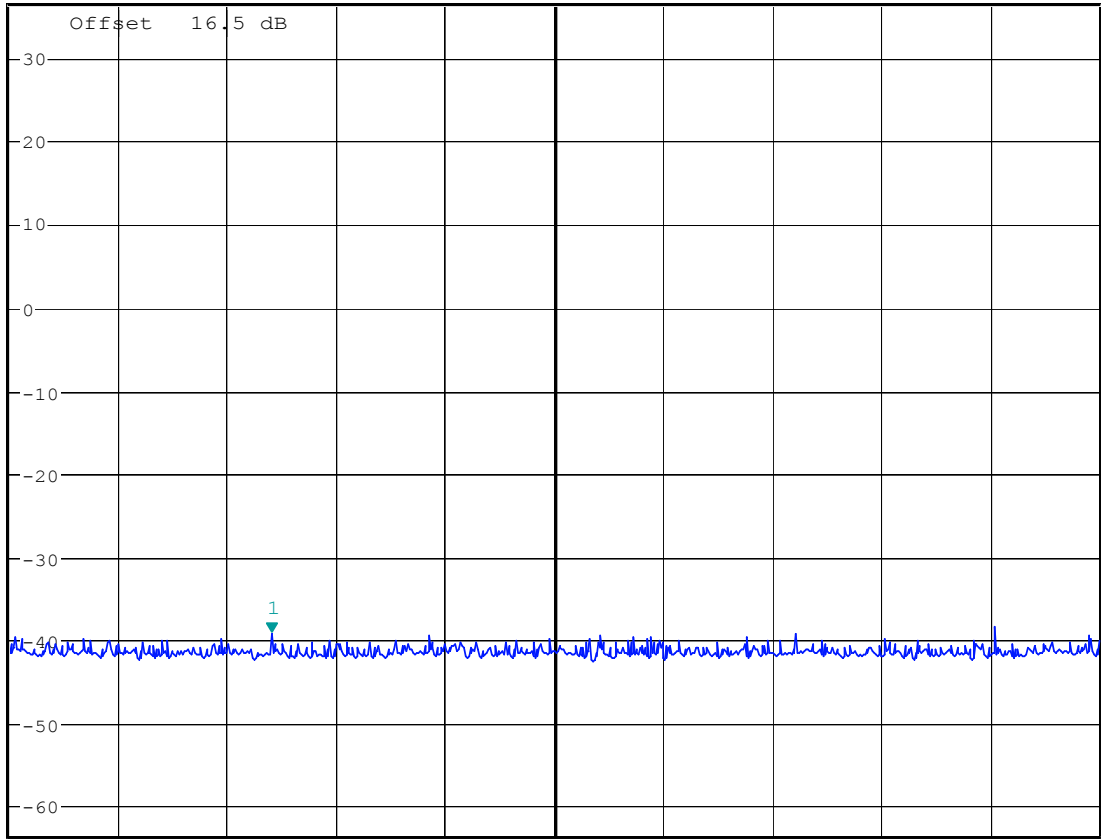
Spurious Emissions at Antenna Terminals



*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -39.33 dBm
*SWT 200 ms 70.865384615 MHz

Ref 36.5 dBm *Att 25 dB

1 PK
MAXH



Start 30 MHz 17 MHz/ Stop 200 MHz

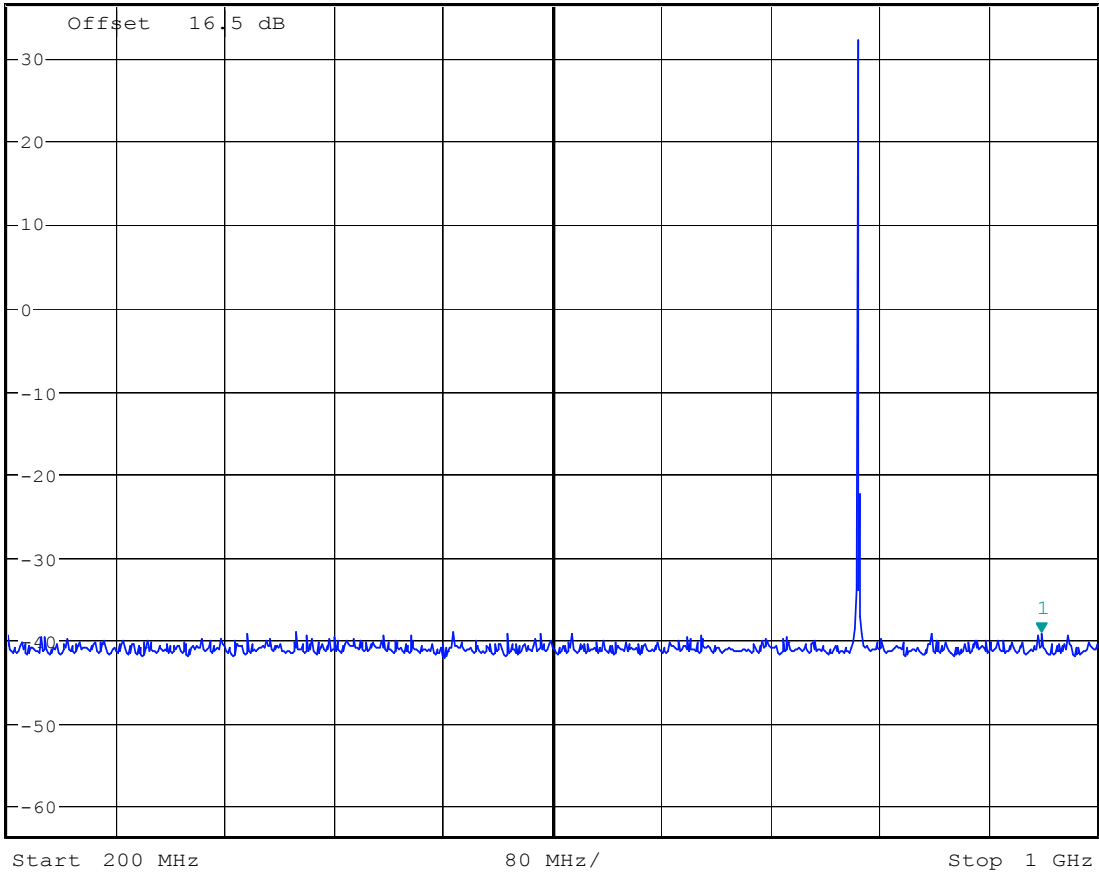
CONDUCTED SPURIOUS EMISSION GSM 850 CH128

Date: 5.JAN.2007 09:43:07



Ref 36.5 dBm *Att 25 dB *RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -39.17 dBm
*SWT 200 ms 958.974358974 MHz

1 PK
MAXH



CONDUCTED SPURIOUS EMISSION GSM 850 CH128

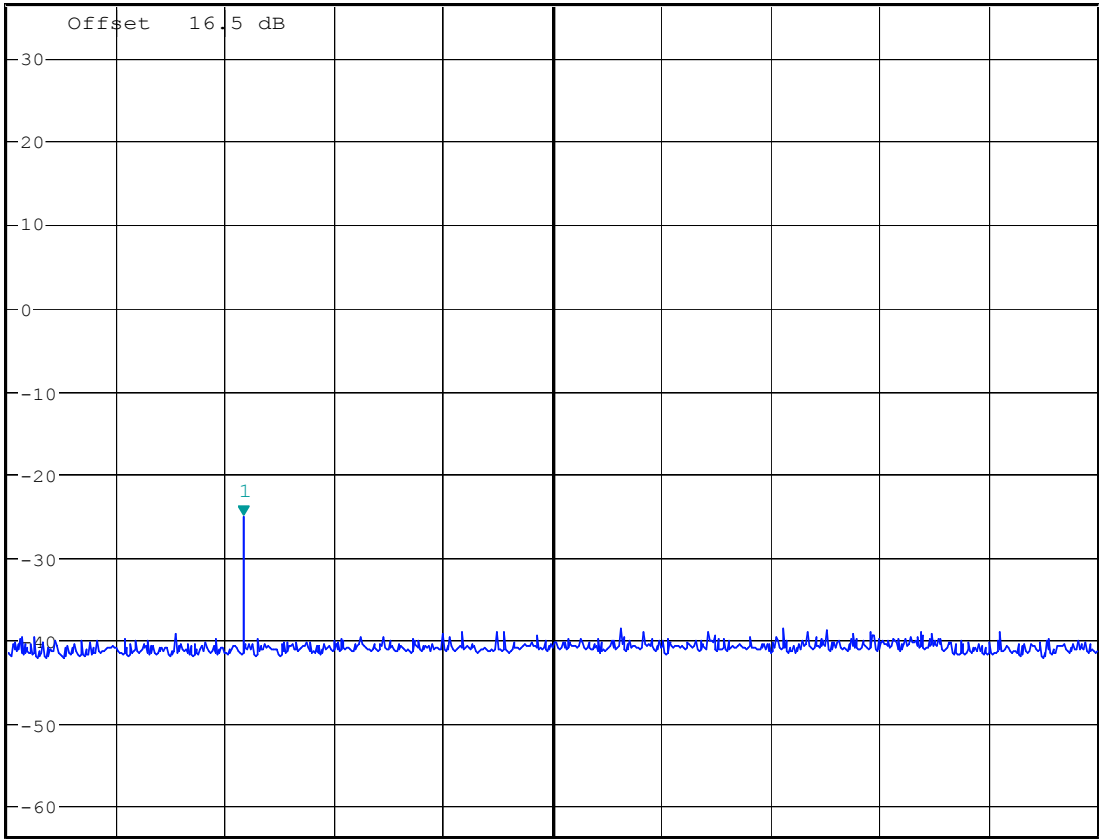
Date: 5.JAN.2007 09:46:14



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -25.10 dBm
*SWT 200 ms 1.649038462 GHz

Ref 36.5 dBm *Att 25 dB

1 PK
MAXH



Start 1 GHz 300 MHz/ Stop 4 GHz

CONDUCTED SPURIOUS EMISSION GSM 850 CH128

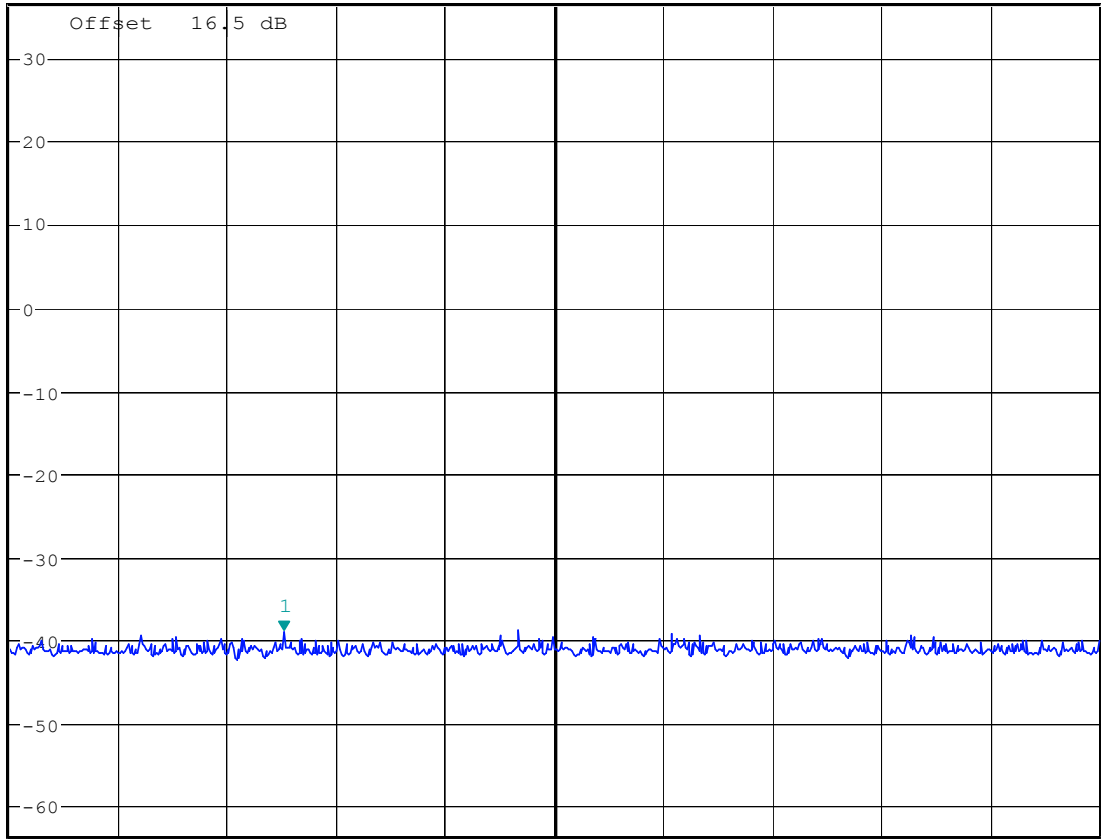
Date: 5.JAN.2007 09:46:40



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -39.00 dBm
*SWT 200 ms 5.006410256 GHz

Ref 36.5 dBm *Att 25 dB

1 PK
MAXH



Start 4 GHz 400 MHz/ Stop 8 GHz

CONDUCTED SPURIOUS EMISSION GSM 850 CH128

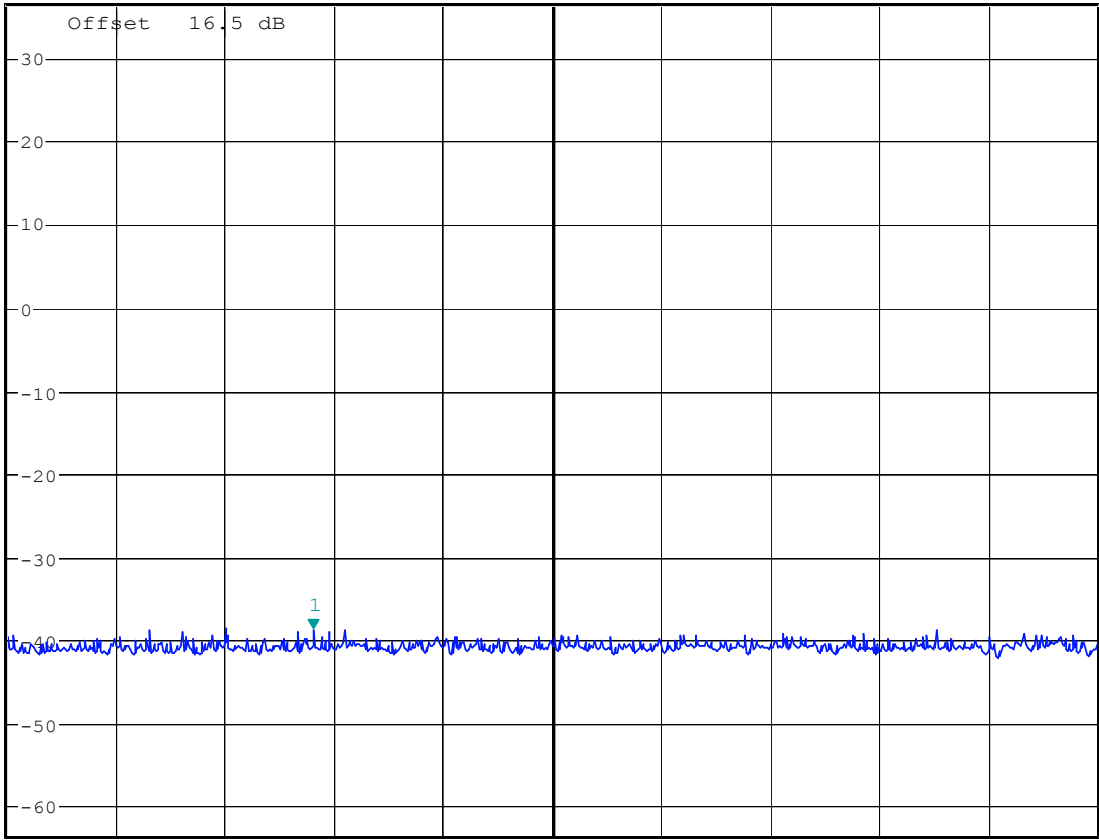
Date: 5.JAN.2007 09:48:54



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -38.83 dBm
*SWT 200 ms 9.332131410 GHz

Ref 36.5 dBm *Att 25 dB

1 PK
MAXH



Start 8 GHz 475 MHz/ Stop 12.75 GHz

CONDUCTED SPURIOUS EMISSION GSM 850 CH128

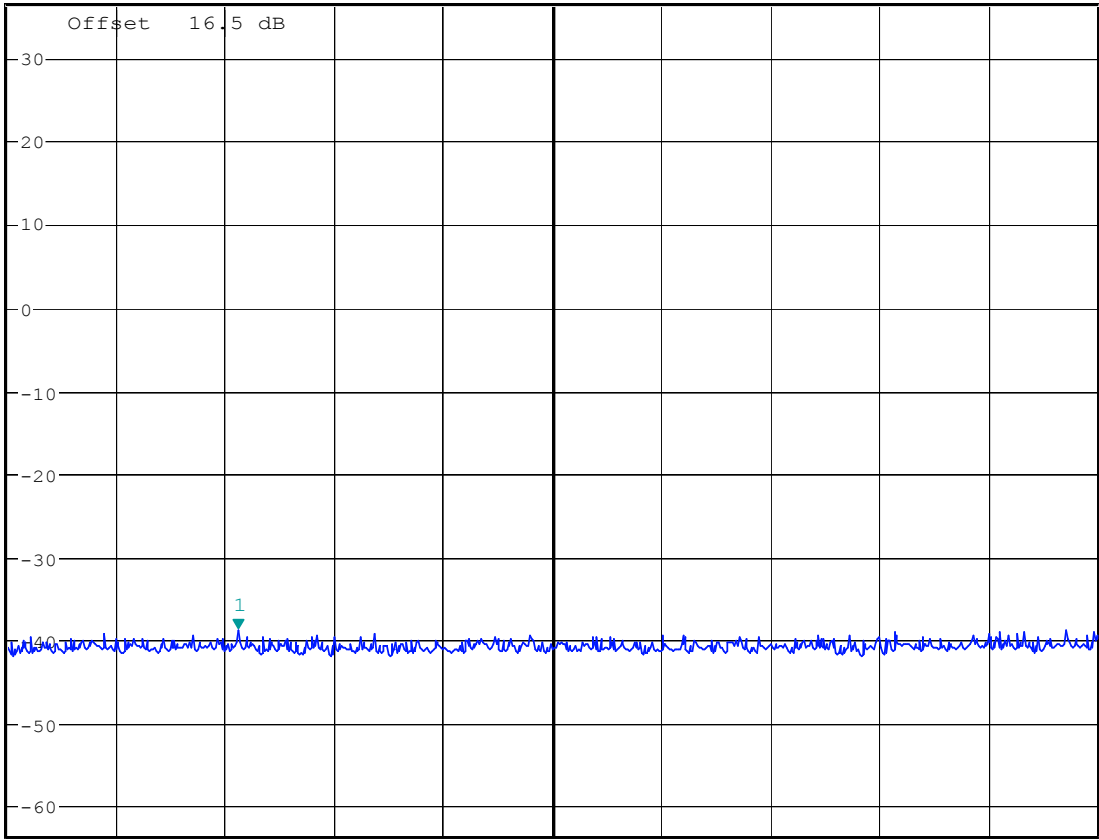
Date: 5.JAN.2007 09:49:25



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -38.76 dBm
*SWT 200 ms 13.860576923 GHz

Ref 36.5 dBm *Att 25 dB

1 PK
MAXH



Start 12.75 GHz 525 MHz/ Stop 18 GHz

CONDUCTED SPURIOUS EMISSION GSM 850 CH128

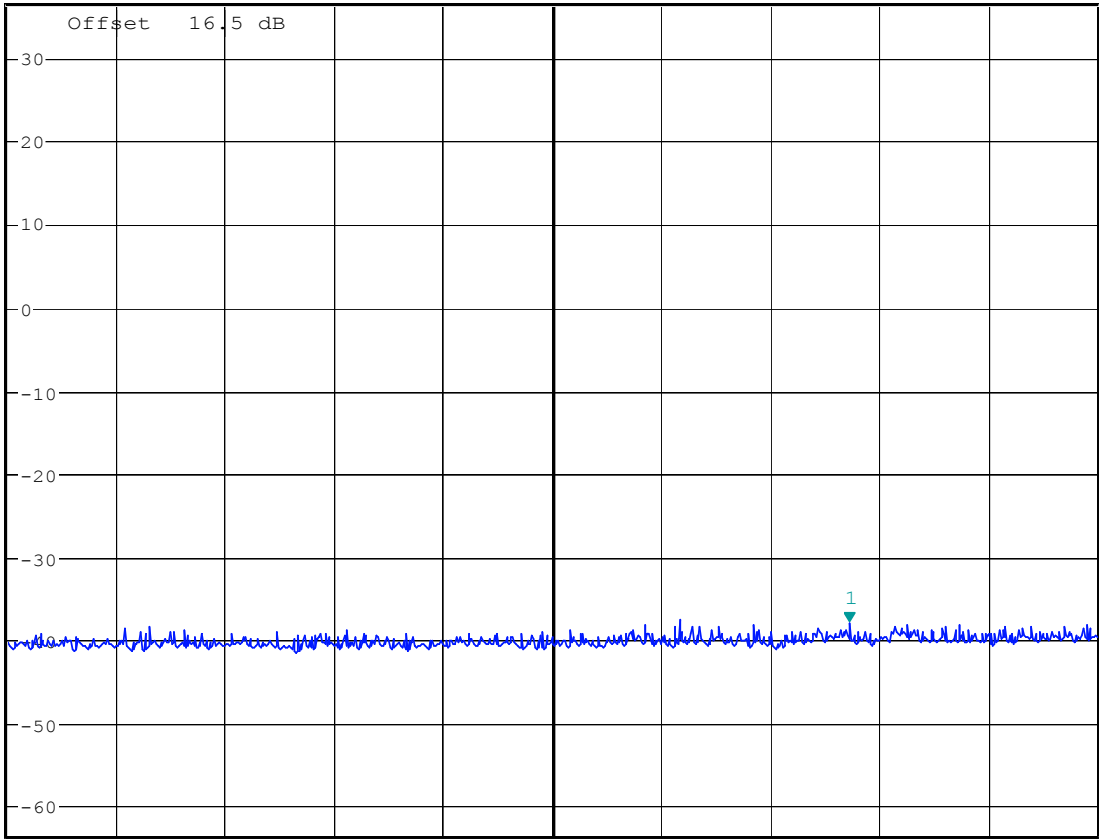
Date: 5.JAN.2007 09:51:49



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -38.03 dBm
*SWT 200 ms 24.565705128 GHz

Ref 36.5 dBm *Att 25 dB

1 PK
MAXH



Start 18 GHz 850 MHz/ Stop 26.5 GHz

CONDUCTED SPURIOUS EMISSION GSM 850 CH128

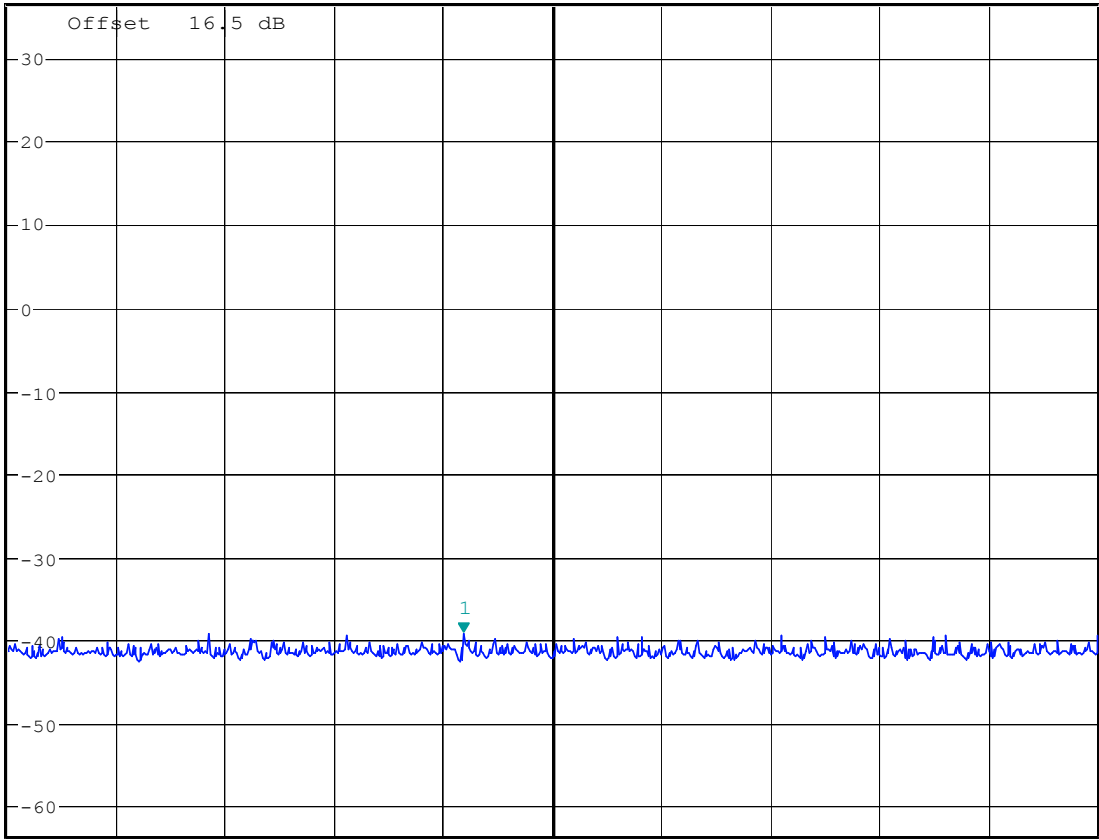
Date: 5.JAN.2007 09:53:20



*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -39.31 dBm
*SWT 200 ms 101.105769231 MHz

Ref 36.5 dBm *Att 25 dB

1 PK
MAXH



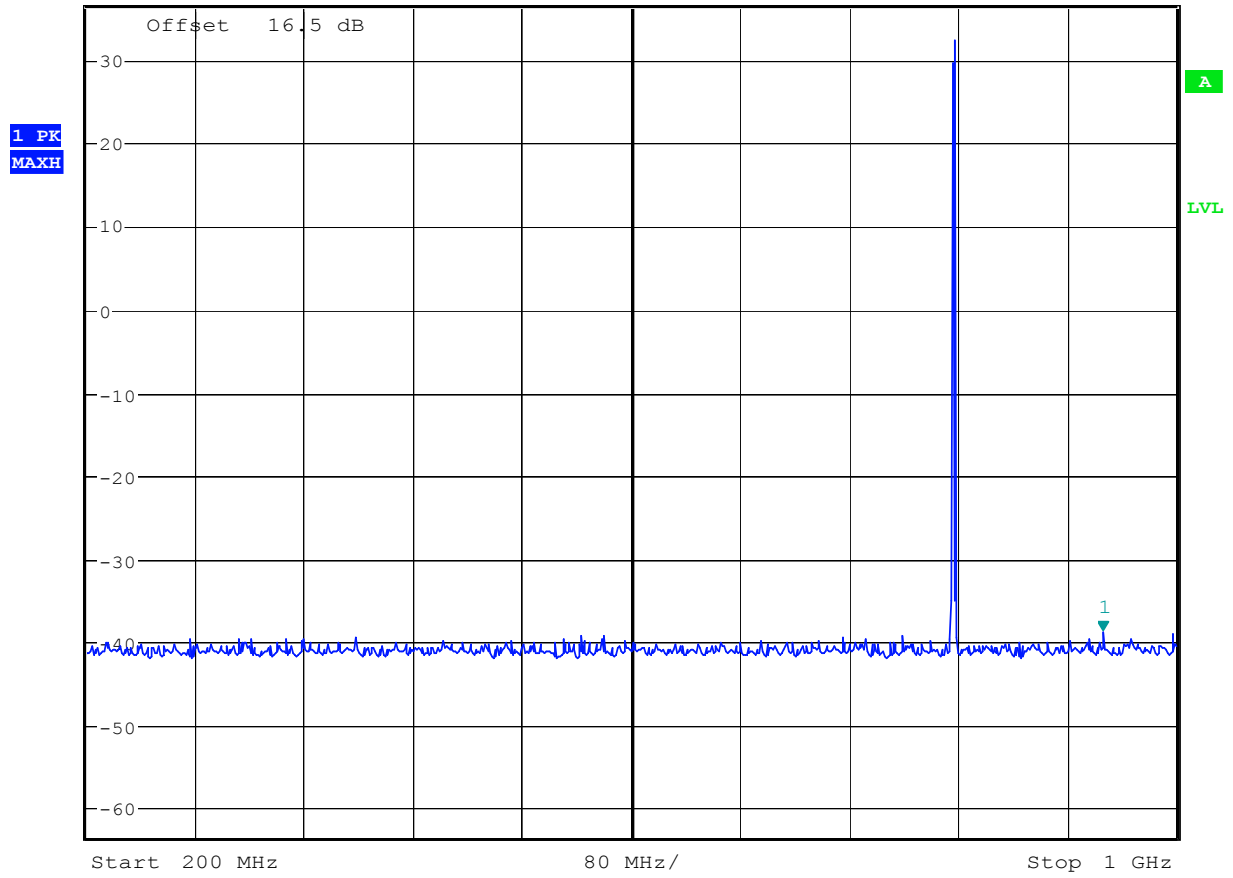
Start 30 MHz 17 MHz/ Stop 200 MHz

CONDUCTED SPURIOUS EMISSION GSM 850 CH188

Date: 5.JAN.2007 09:43:47



Ref 36.5 dBm *Att 25 dB *RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -38.74 dBm
*SWT 200 ms 946.153846154 MHz



CONDUCTED SPURIOUS EMISSION GSM 850 CH188

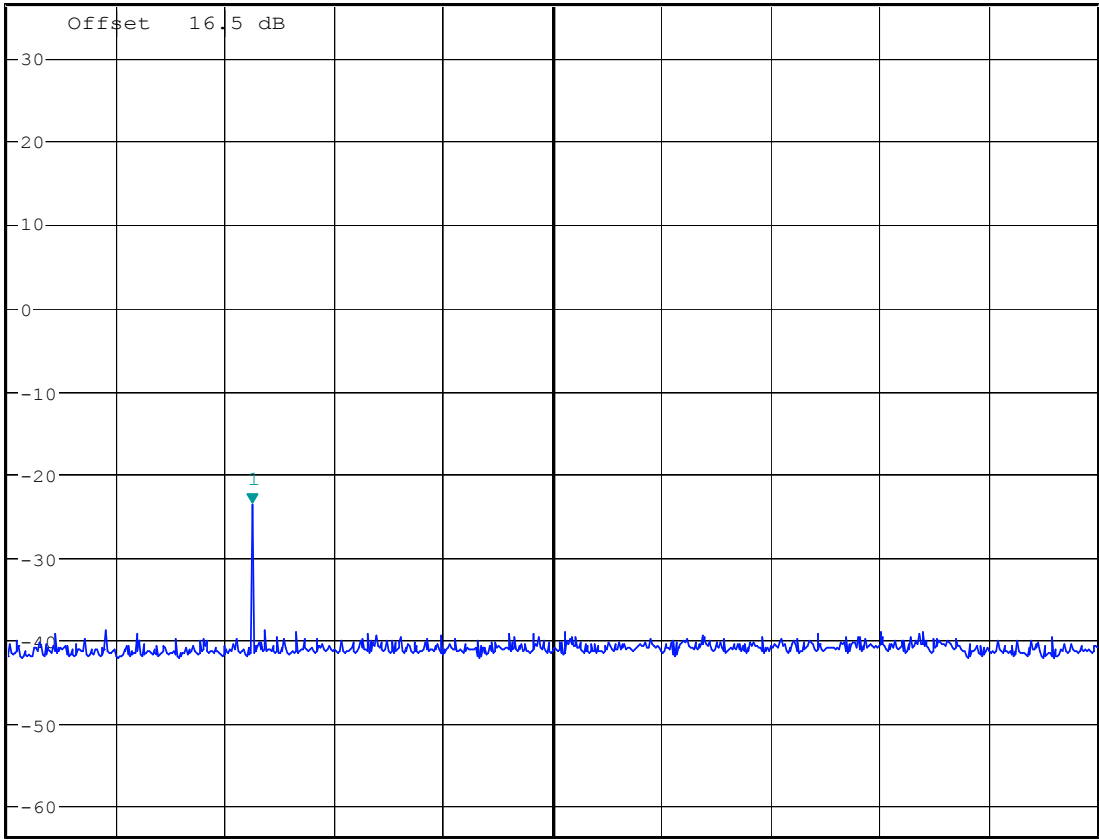
Date: 5.JAN.2007 09:45:32



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -23.65 dBm
*SWT 200 ms 1.673076923 GHz

Ref 36.5 dBm *Att 25 dB

1 PK
MAXH



A

LVL

Start 1 GHz

300 MHz/

Stop 4 GHz

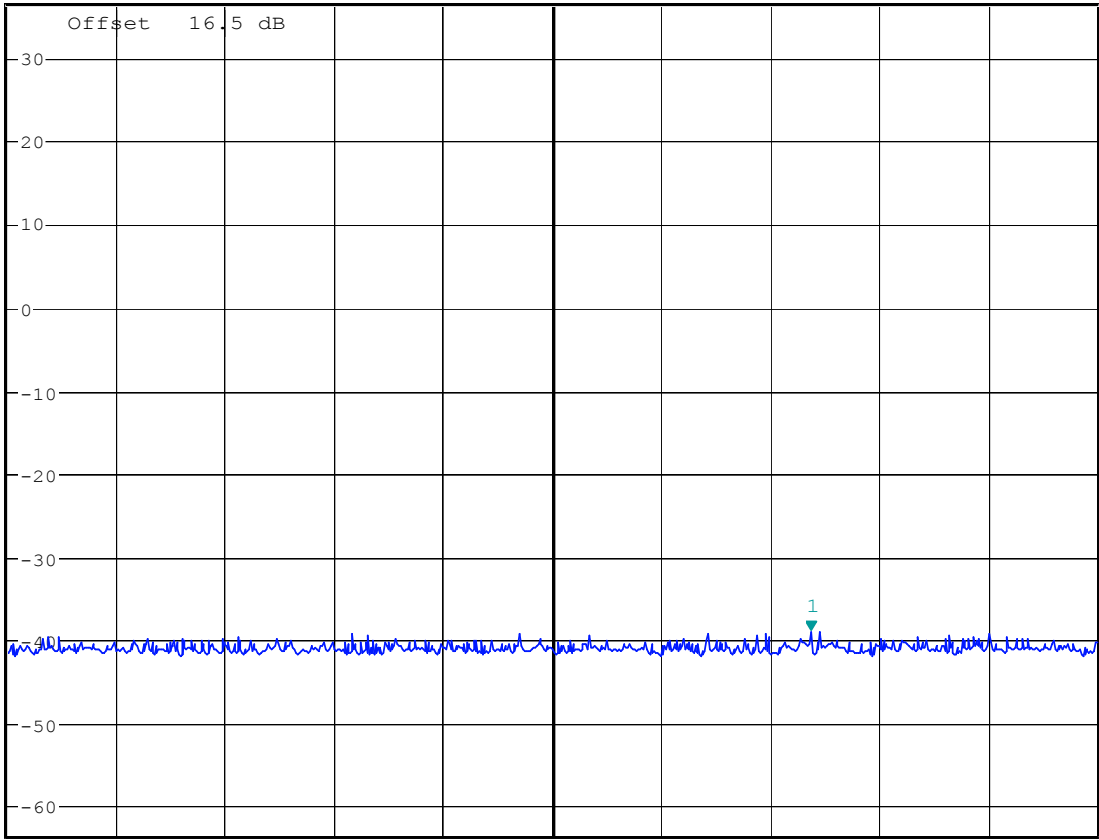
CONDUCTED SPURIOUS EMISSION GSM 850 CH188

Date: 5.JAN.2007 09:47:01



Ref 36.5 dBm *Att 25 dB *RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -39.11 dBm
*SWT 200 ms 6.948717949 GHz

1 PK
MAXH



Start 4 GHz 400 MHz/ Stop 8 GHz

CONDUCTED SPURIOUS EMISSION GSM 850 CH188

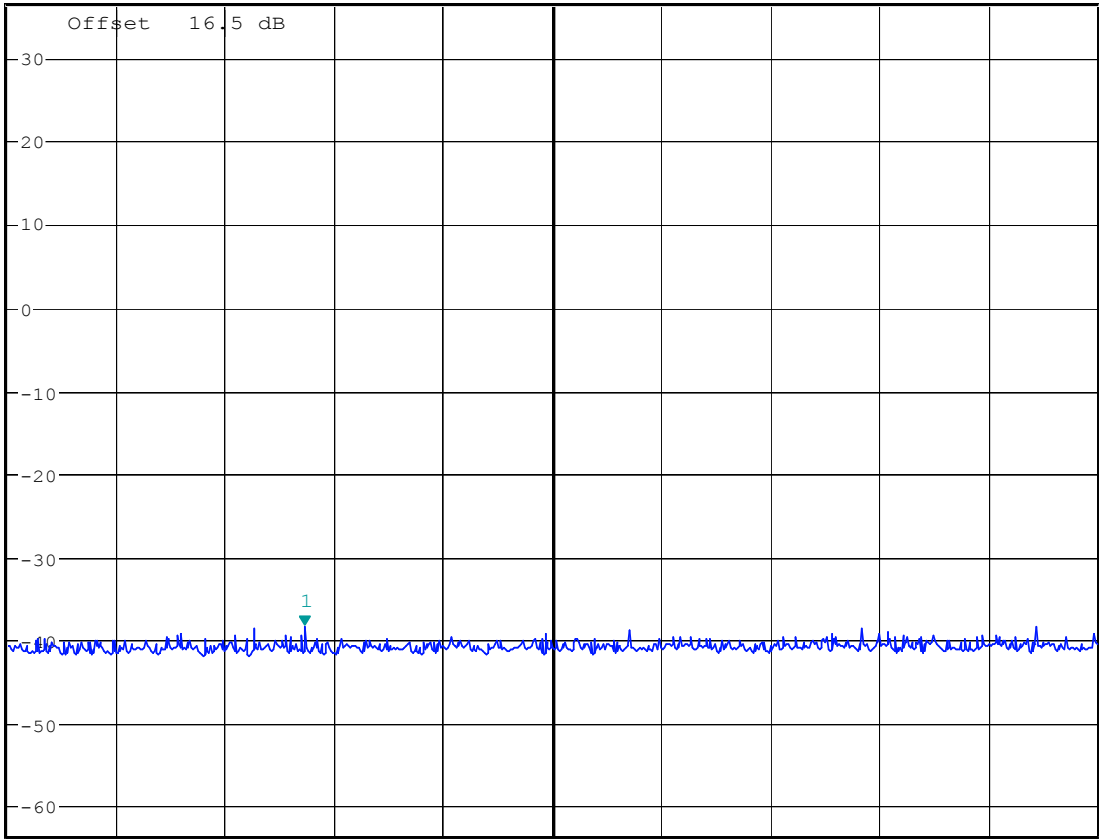
Date: 5.JAN.2007 09:48:29



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -38.37 dBm
*SWT 200 ms 9.294070513 GHz

Ref 36.5 dBm *Att 25 dB

1 PK
MAXH



Start 8 GHz 475 MHz/ Stop 12.75 GHz

CONDUCTED SPURIOUS EMISSION GSM 850 CH188

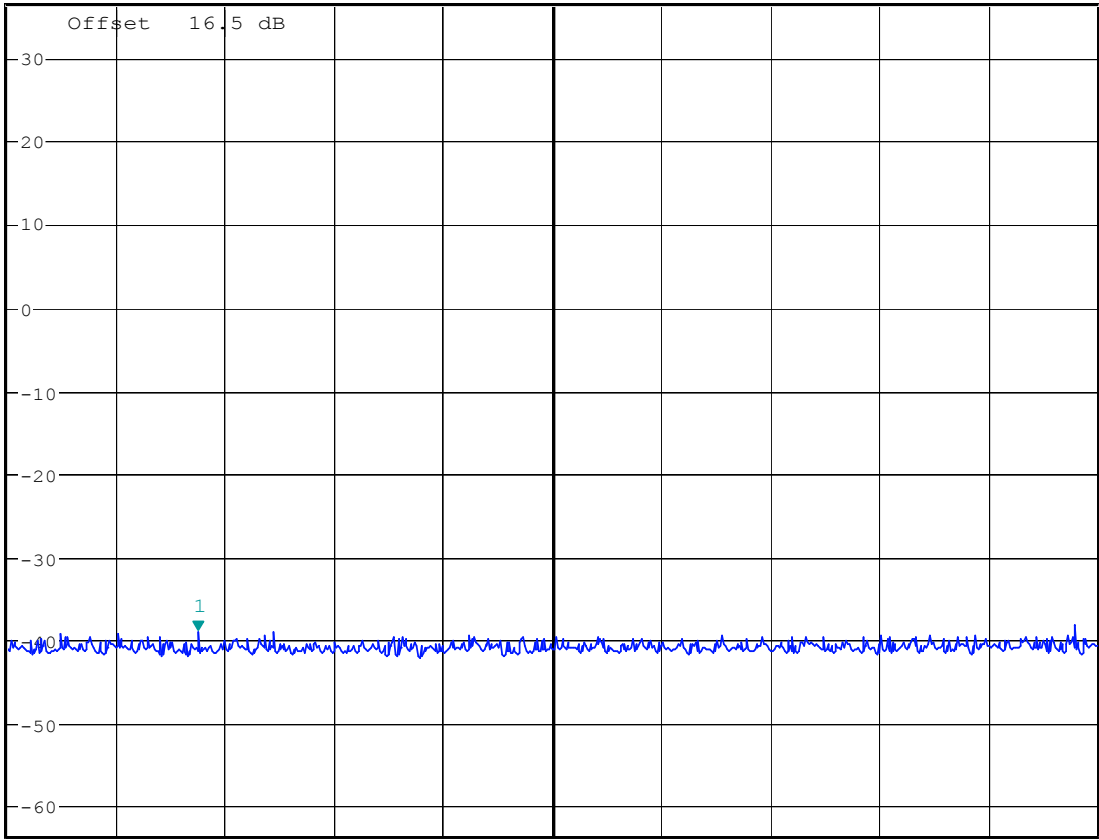
Date: 5.JAN.2007 09:49:57



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -39.04 dBm
*SWT 200 ms 13.667067308 GHz

Ref 36.5 dBm *Att 25 dB

1 PK
MAXH



Start 12.75 GHz 525 MHz/ Stop 18 GHz

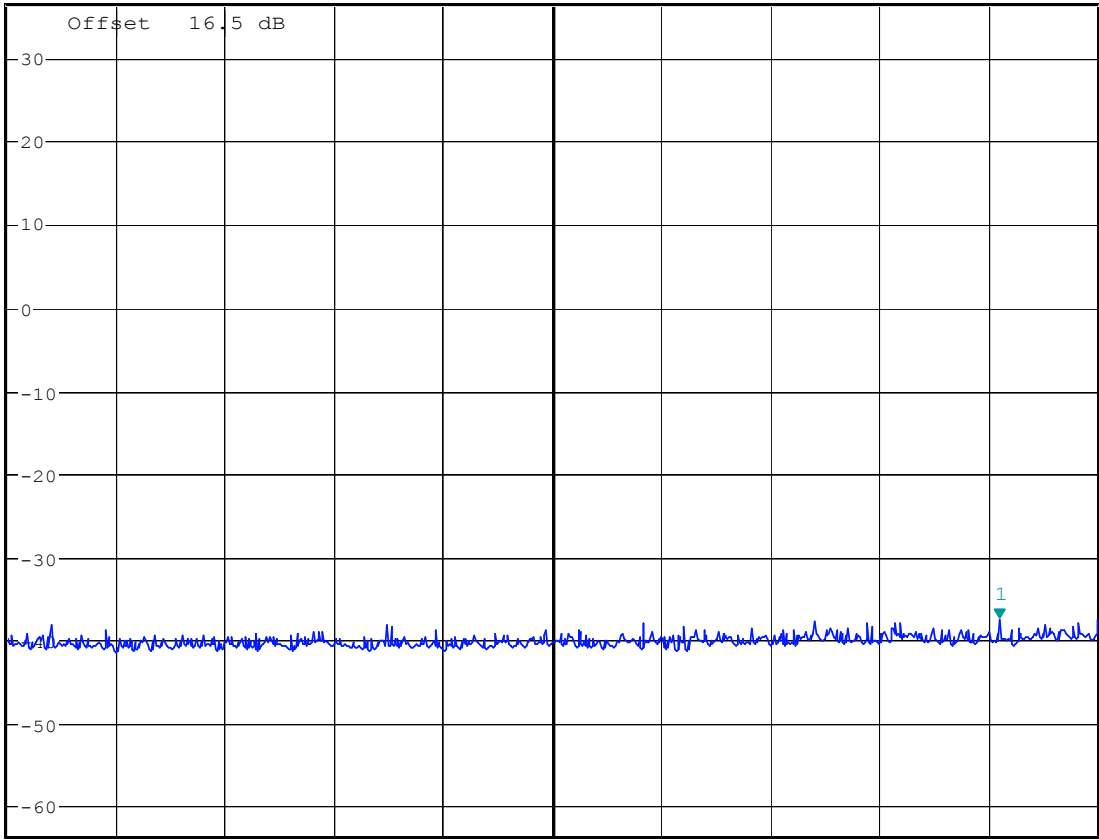
CONDUCTED SPURIOUS EMISSION GSM 850 CH188

Date: 5.JAN.2007 09:51:16



Ref 36.5 dBm *Att 25 dB *RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -37.51 dBm
*SWT 200 ms 25.737179487 GHz

1 PK
MAXH



Start 18 GHz 850 MHz/ Stop 26.5 GHz

CONDUCTED SPURIOUS EMISSION GSM 850 CH188

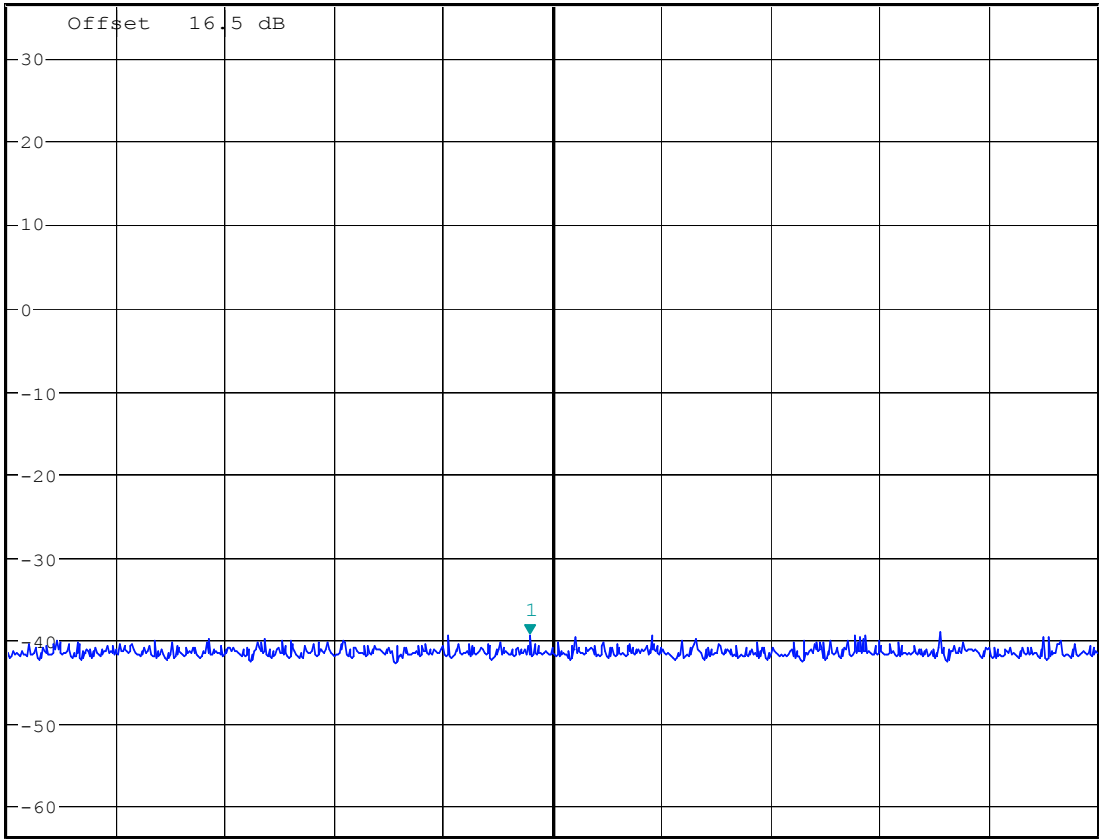
Date: 5.JAN.2007 09:53:44



*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -39.38 dBm
*SWT 200 ms 111.458333333 MHz

Ref 36.5 dBm *Att 25 dB

1 PK
MAXH



Start 30 MHz 17 MHz/ Stop 200 MHz

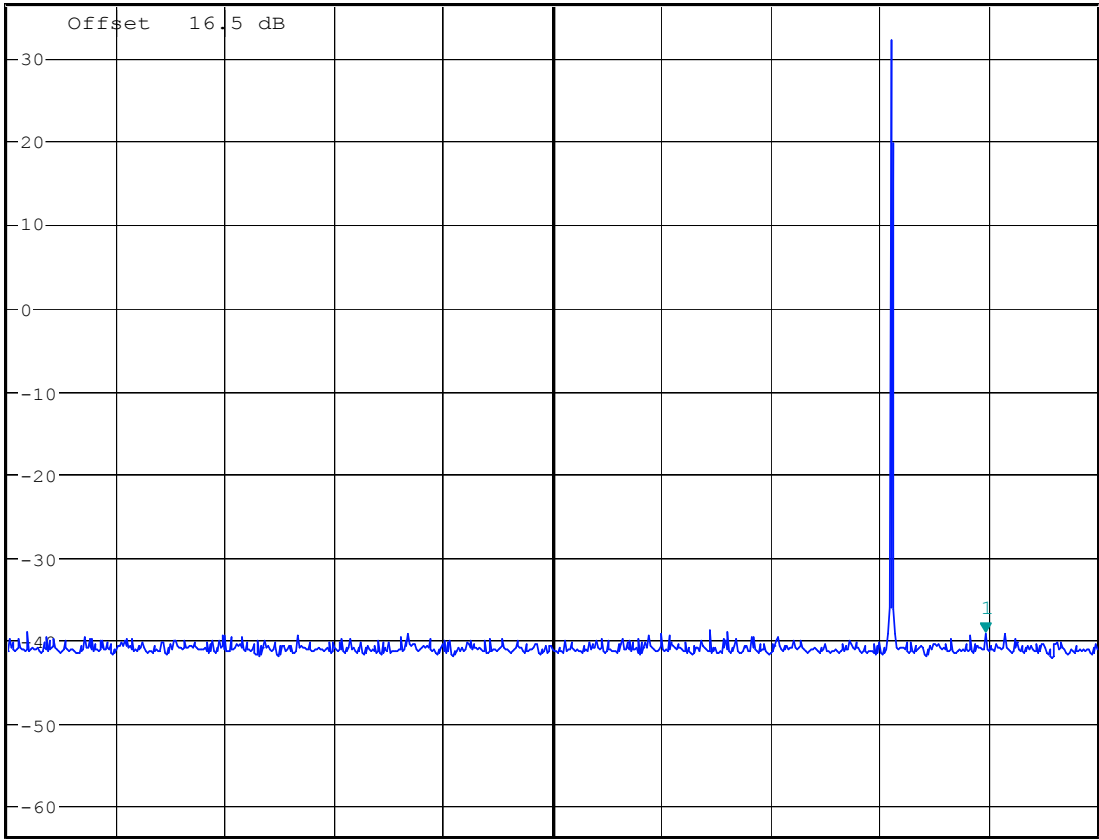
CONDUCTED SPURIOUS EMISSION GSM 850 CH251

Date: 5.JAN.2007 09:44:15



Ref 36.5 dBm *Att 25 dB *RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -39.22 dBm
*SWT 200 ms 917.948717949 MHz

1 PK
MAXH



CONDUCTED SPURIOUS EMISSION GSM 850 CH251

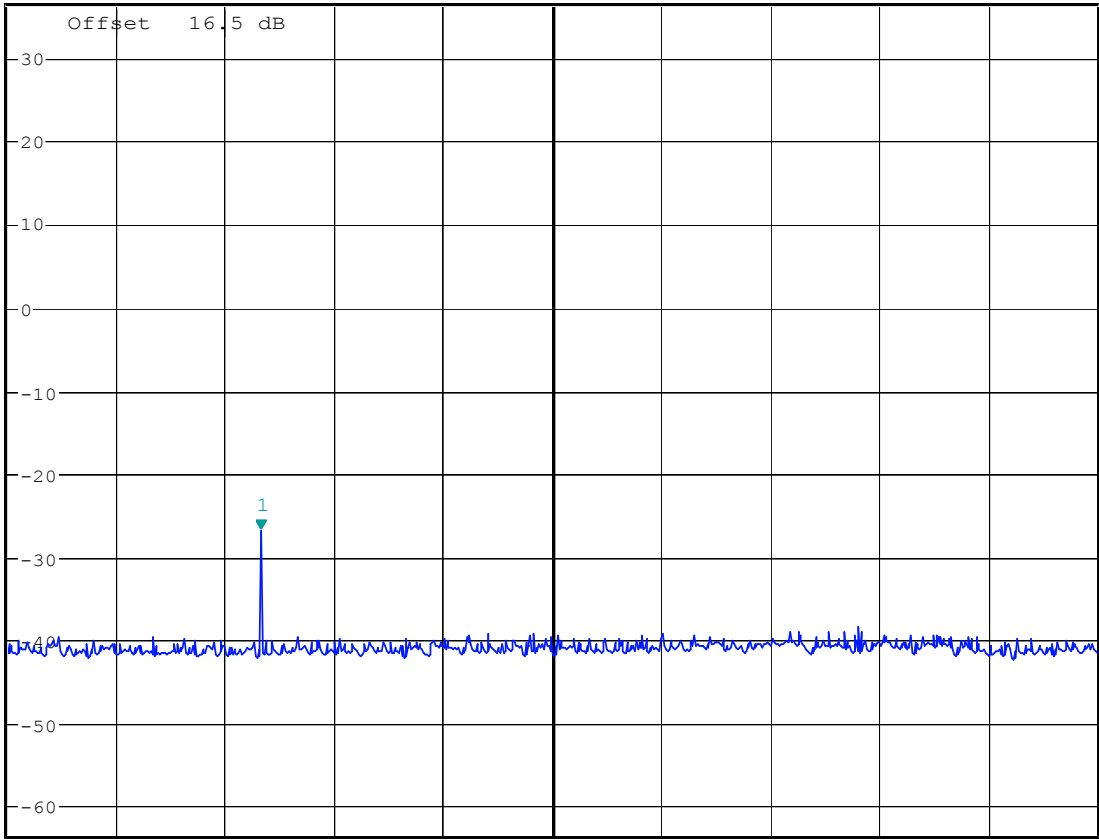
Date: 5.JAN.2007 09:44:50



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -26.81 dBm
*SWT 200 ms 1.697115385 GHz

Ref 36.5 dBm *Att 25 dB

1 PK
MAXH



Start 1 GHz

300 MHz/

Stop 4 GHz

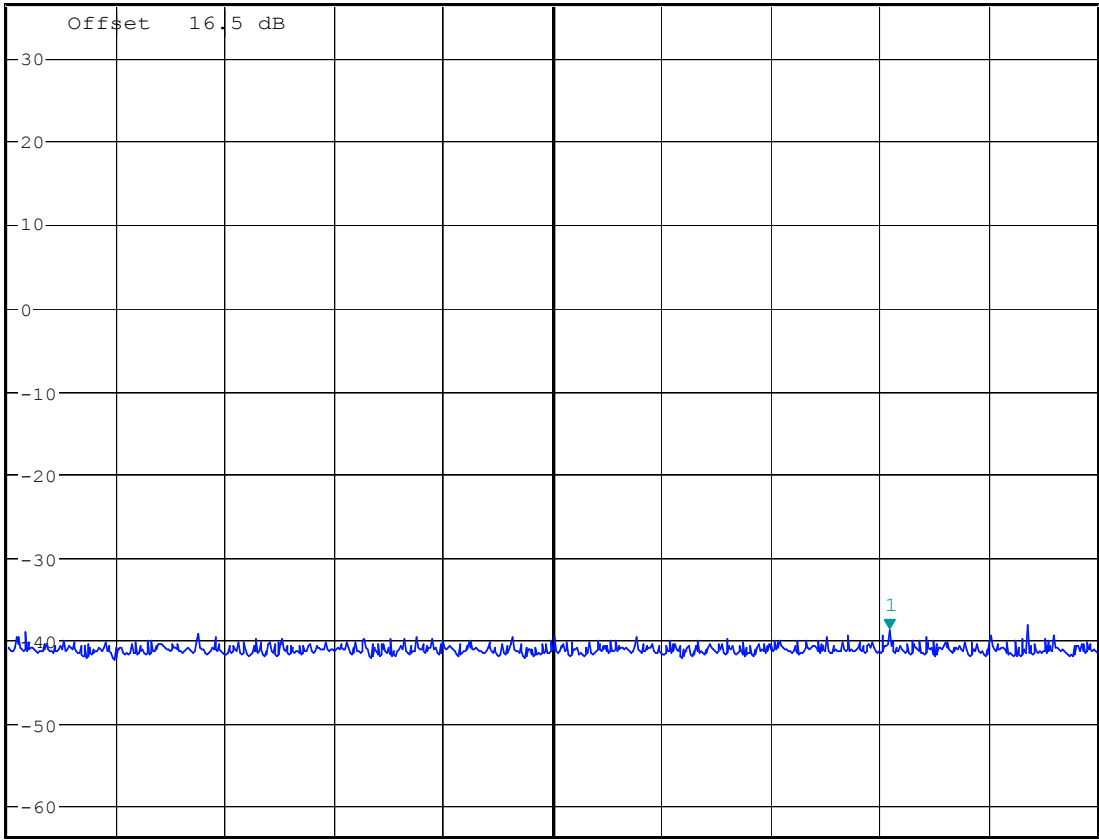
CONDUCTED SPURIOUS EMISSION GSM 850 CH251

Date: 5.JAN.2007 09:47:27



Ref 36.5 dBm *Att 25 dB *RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -38.89 dBm
*SWT 200 ms 7.237179487 GHz

1 PK
MAXH



Start 4 GHz 400 MHz/ Stop 8 GHz

CONDUCTED SPURIOUS EMISSION GSM 850 CH251

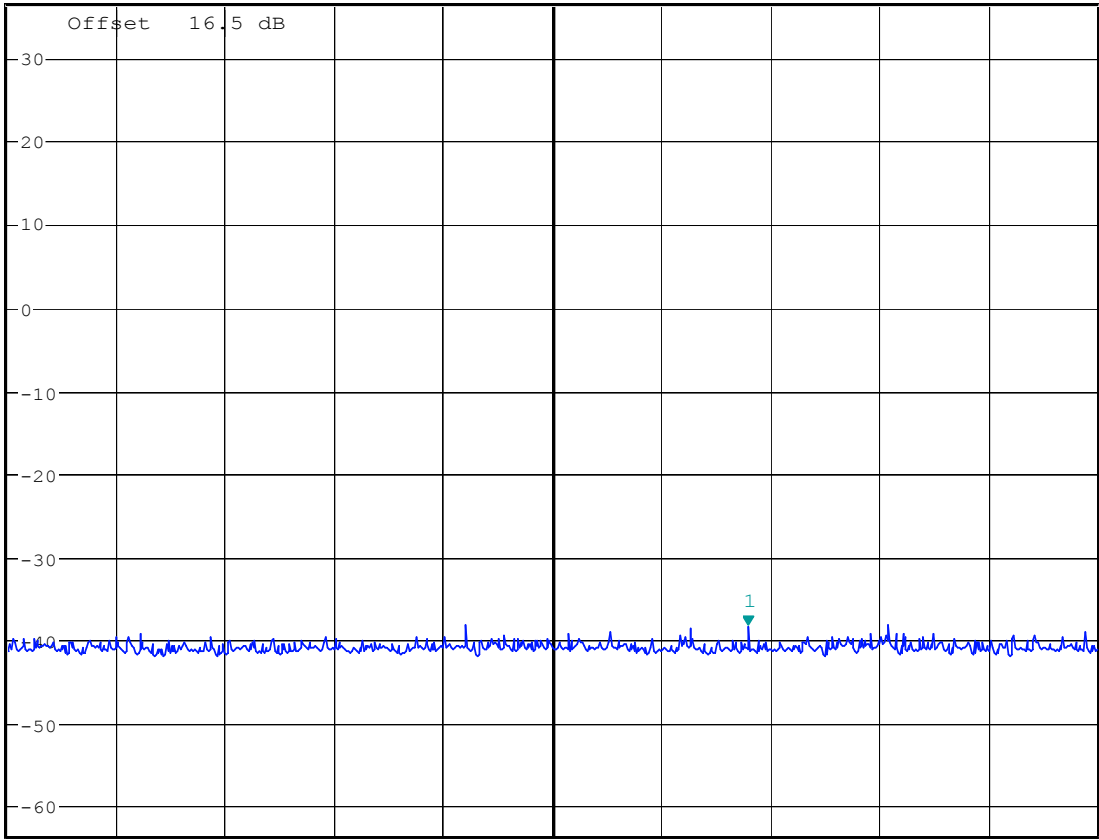
Date: 5.JAN.2007 09:47:54



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -38.32 dBm
*SWT 200 ms 11.227564103 GHz

Ref 36.5 dBm *Att 25 dB

1 PK
MAXH



Start 8 GHz 475 MHz/ Stop 12.75 GHz

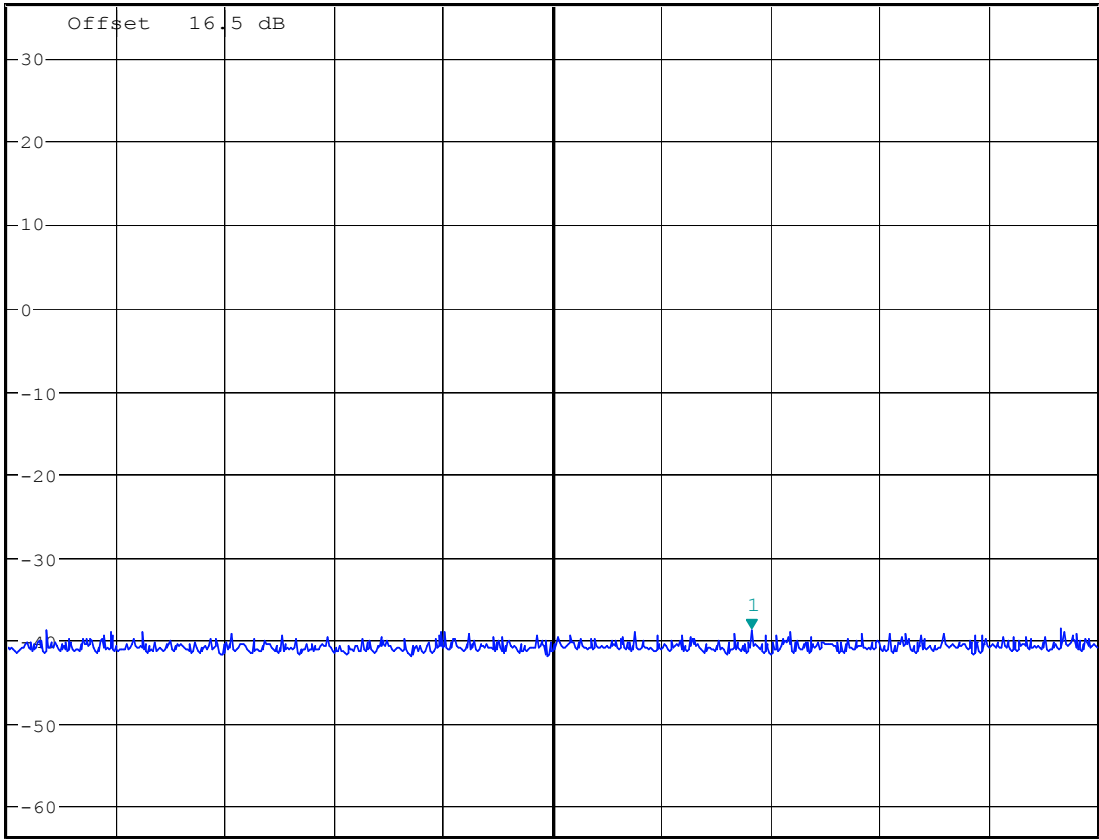
CONDUCTED SPURIOUS EMISSION GSM 850 CH251

Date: 5.JAN.2007 09:50:27



Ref 36.5 dBm *Att 25 dB *RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -38.86 dBm
*SWT 200 ms 16.334134615 GHz

1 PK
MAXH



Start 12.75 GHz 525 MHz/ Stop 18 GHz

CONDUCTED SPURIOUS EMISSION GSM 850 CH251

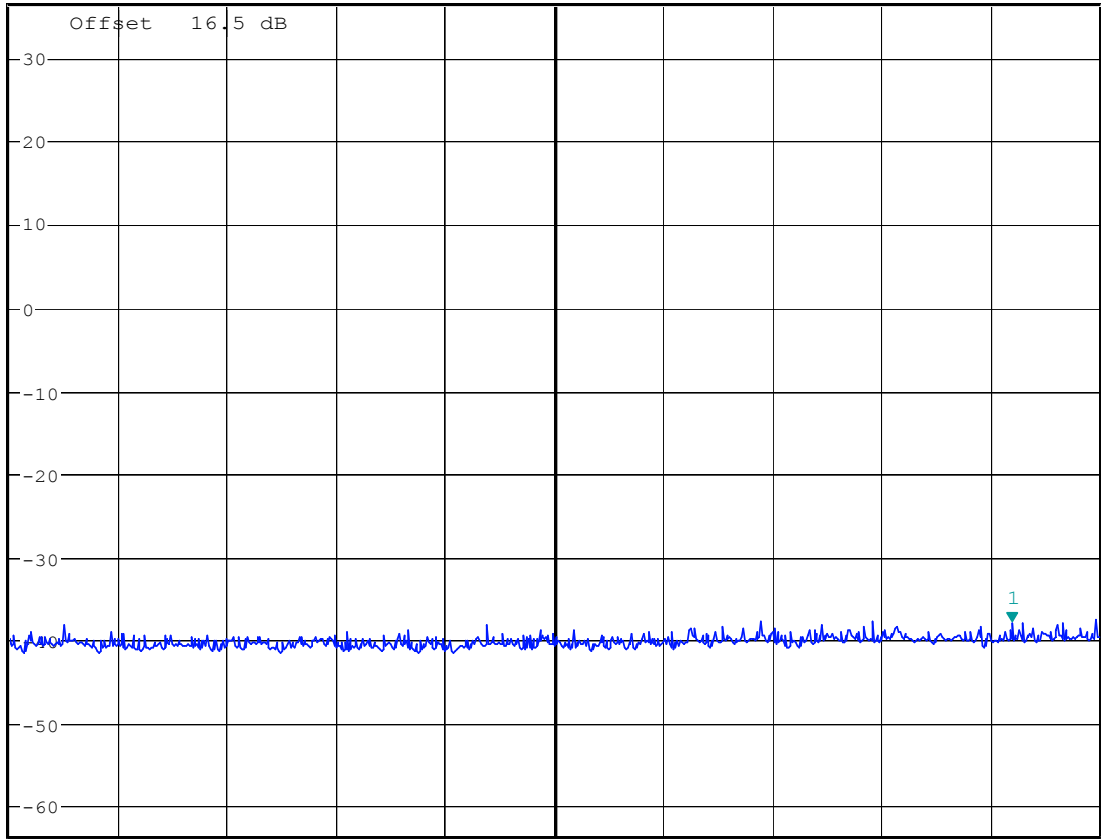
Date: 5.JAN.2007 09:50:54



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -37.95 dBm
*SWT 200 ms 25.818910256 GHz

Ref 36.5 dBm *Att 25 dB

1 PK
MAXH



Start 18 GHz 850 MHz/ Stop 26.5 GHz

CONDUCTED SPURIOUS EMISSION GSM 850 CH251

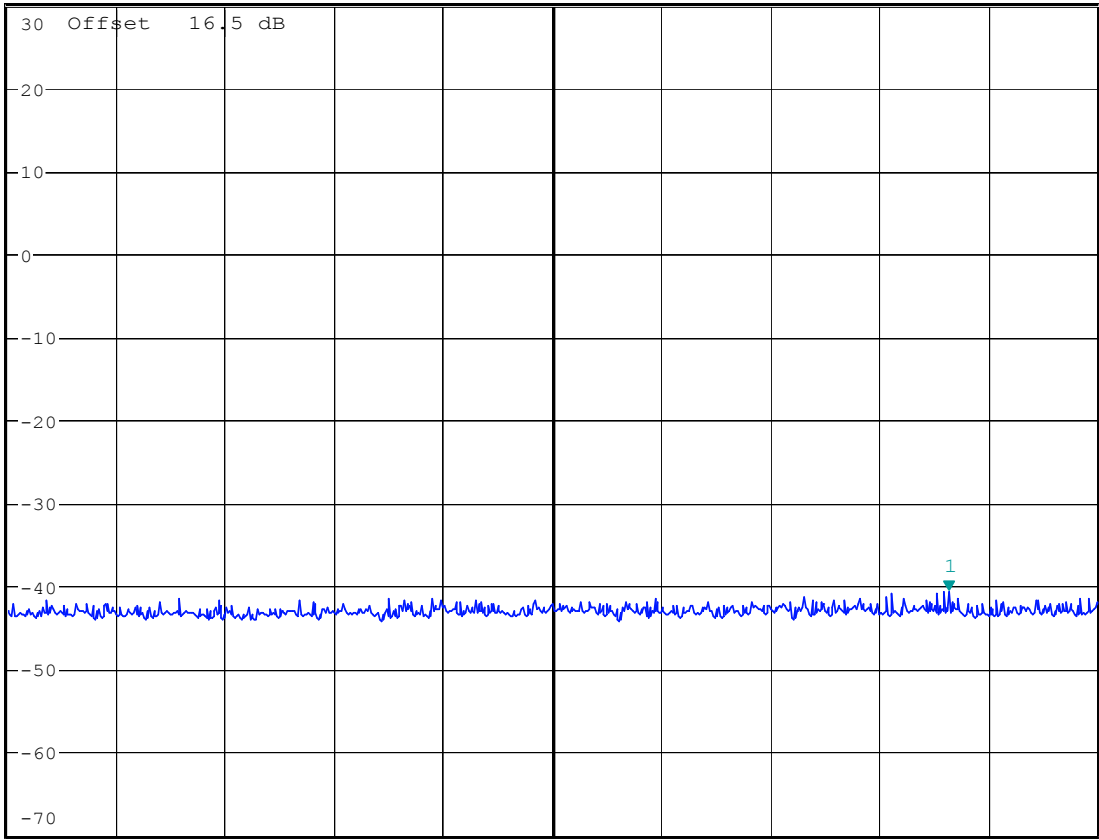
Date: 5.JAN.2007 09:54:07



*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -40.73 dBm
*SWT 200 ms 176.842948718 MHz

Ref 30 dBm *Att 30 dB

1 PK
MAXH



Start 30 MHz 17 MHz/ Stop 200 MHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH512

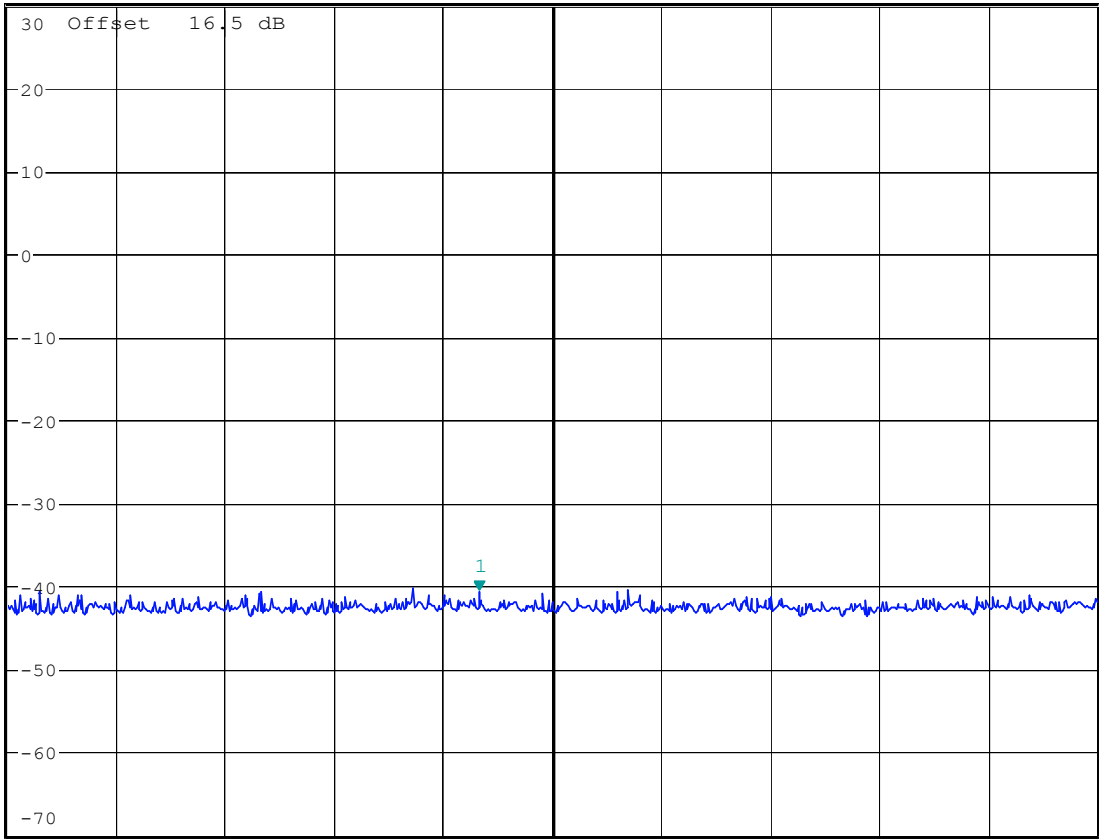
Date: 5.JAN.2007 11:18:21



*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -40.63 dBm
*SWT 200 ms 546.153846154 MHz

Ref 30 dBm *Att 30 dB

1 PK
MAXH



Start 200 MHz 80 MHz/ Stop 1 GHz

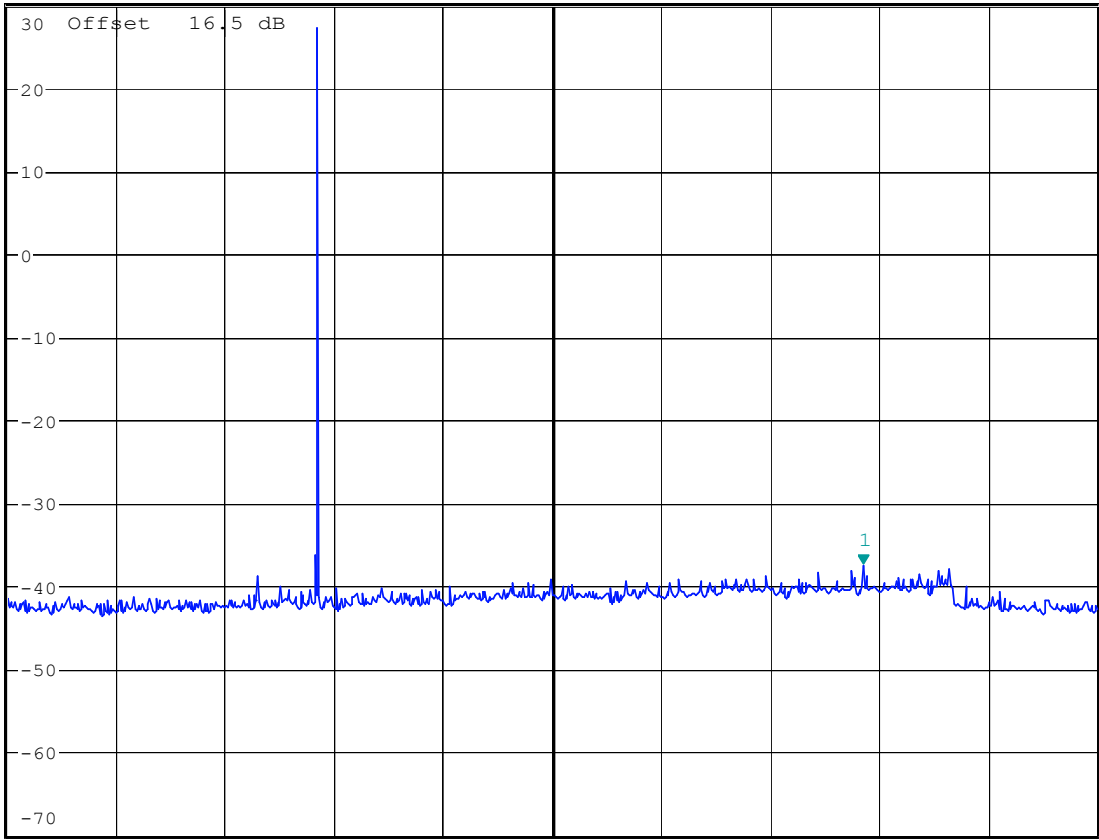
CONDUCTED SPURIOUS EMISSION GSM 1900 CH512

Date: 5.JAN.2007 11:20:32



Ref 30 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -37.60 dBm
*SWT 200 ms 3.355769231 GHz

1 PK
MAXH



A

LVL

Start 1 GHz 300 MHz/ Stop 4 GHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH512

Date: 5.JAN.2007 11:20:55

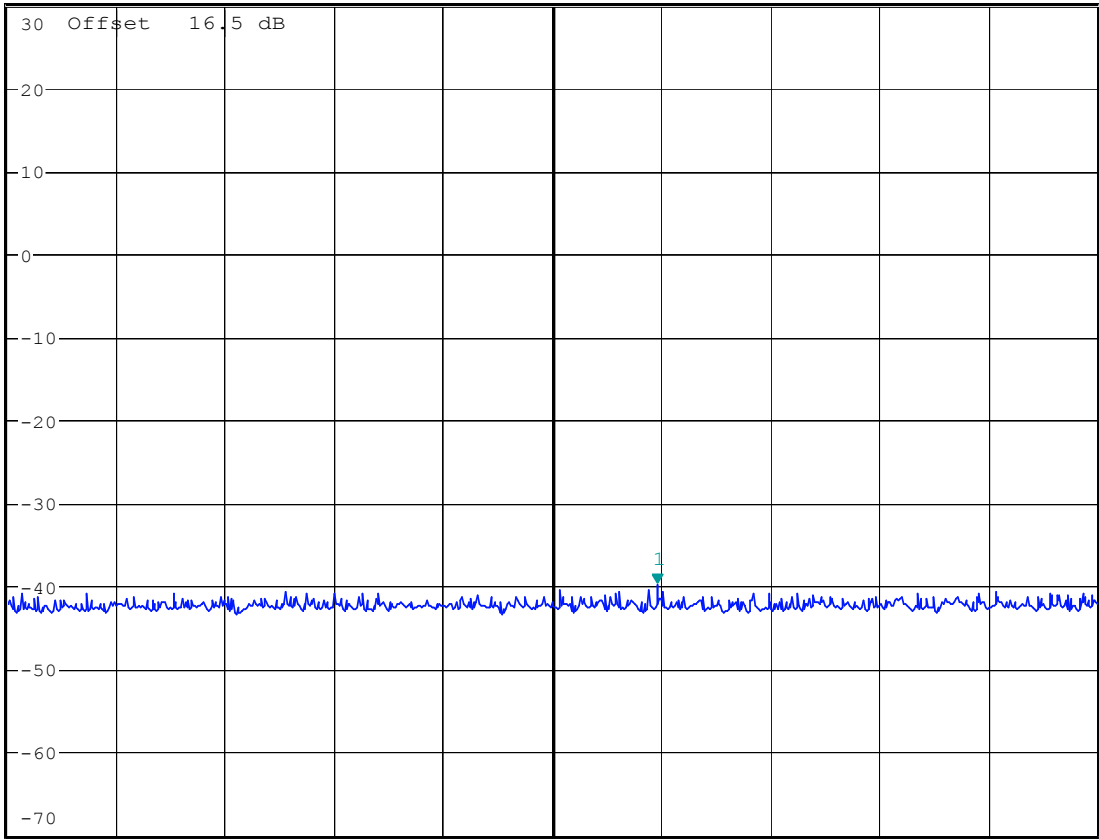


*RBW 1 MHz
*VBW 1 MHz
*SWT 200 ms

Marker 1 [T1]
-39.81 dBm
6.384615385 GHz

Ref 30 dBm
*Att 30 dB

1 PK
MAXH



Start 4 GHz 400 MHz/ Stop 8 GHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH512

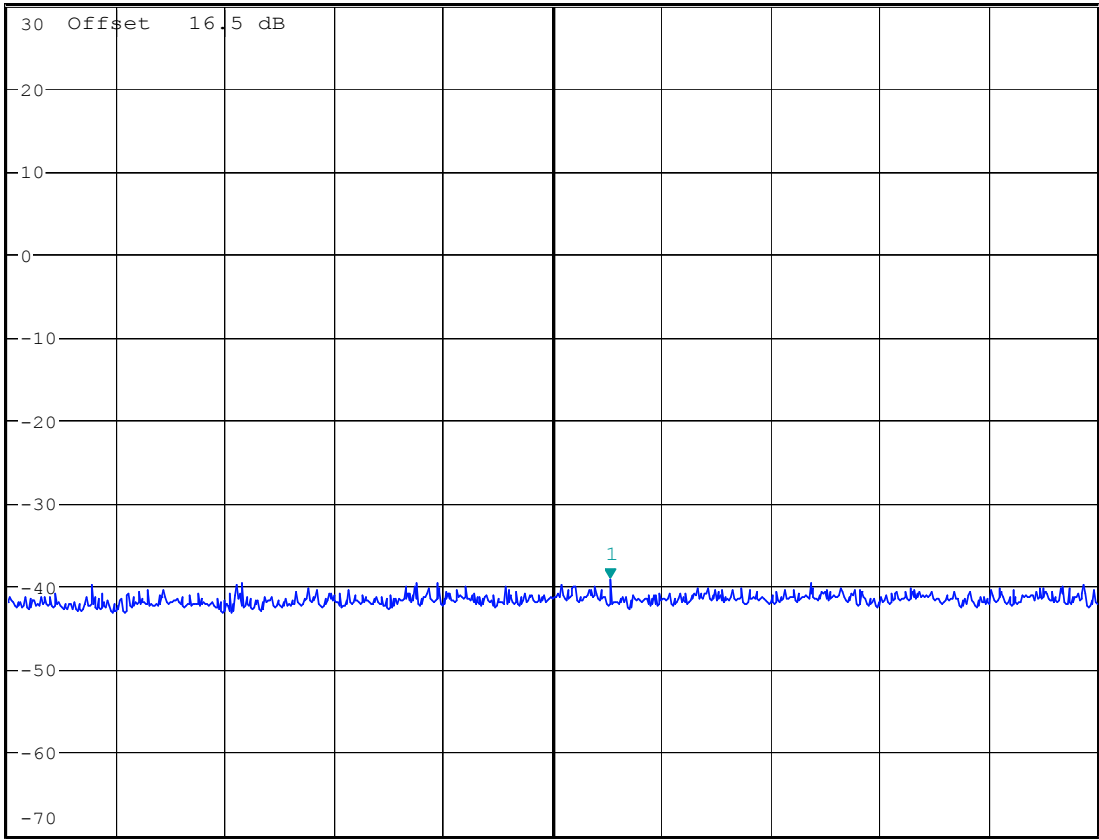
Date: 5.JAN.2007 11:41:55



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -39.12 dBm
*SWT 200 ms 10.626201923 GHz

Ref 30 dBm *Att 30 dB

1 PK
MAXH



Start 8 GHz 475 MHz/ Stop 12.75 GHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH512

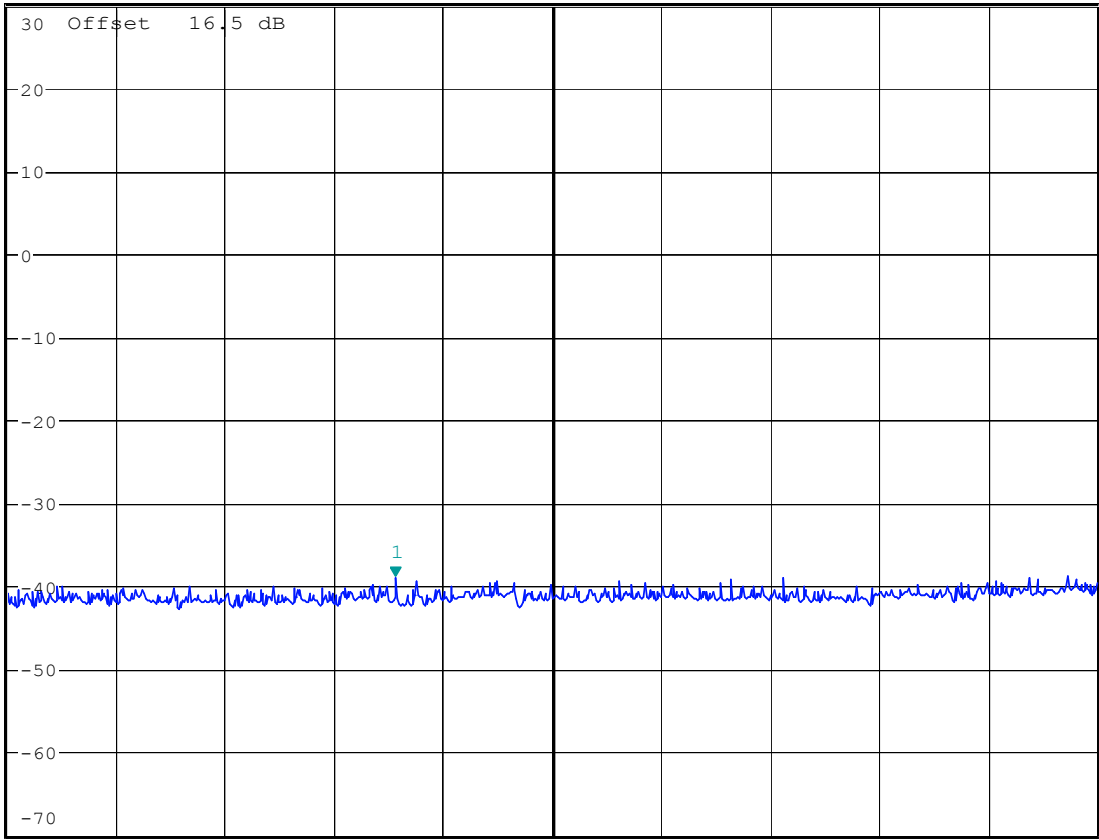
Date: 5.JAN.2007 11:35:28



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -38.98 dBm
*SWT 200 ms 14.617788462 GHz

Ref 30 dBm *Att 30 dB

1 PK
MAXH



Start 12.75 GHz 525 MHz/ Stop 18 GHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH512

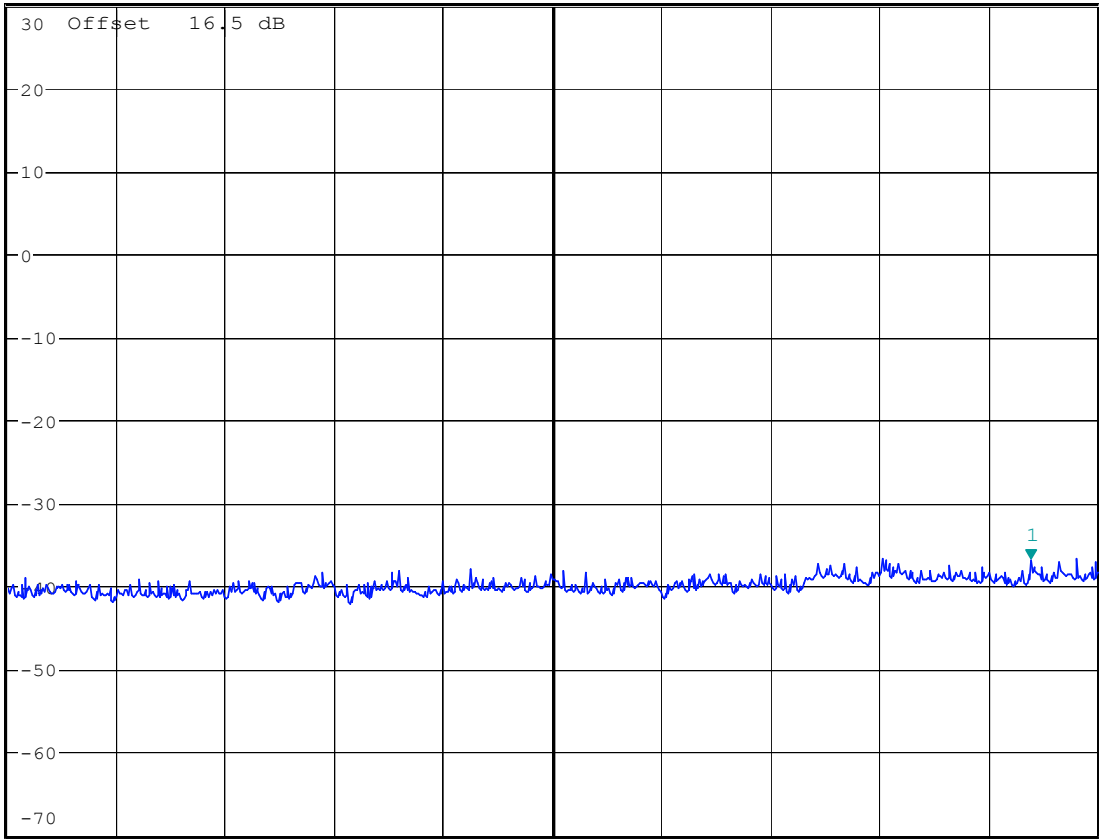
Date: 5.JAN.2007 11:38:35



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -36.86 dBm
*SWT 200 ms 25.982371795 GHz

Ref 30 dBm *Att 30 dB

1 PK
MAXH



Start 18 GHz 850 MHz/ Stop 26.5 GHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH512

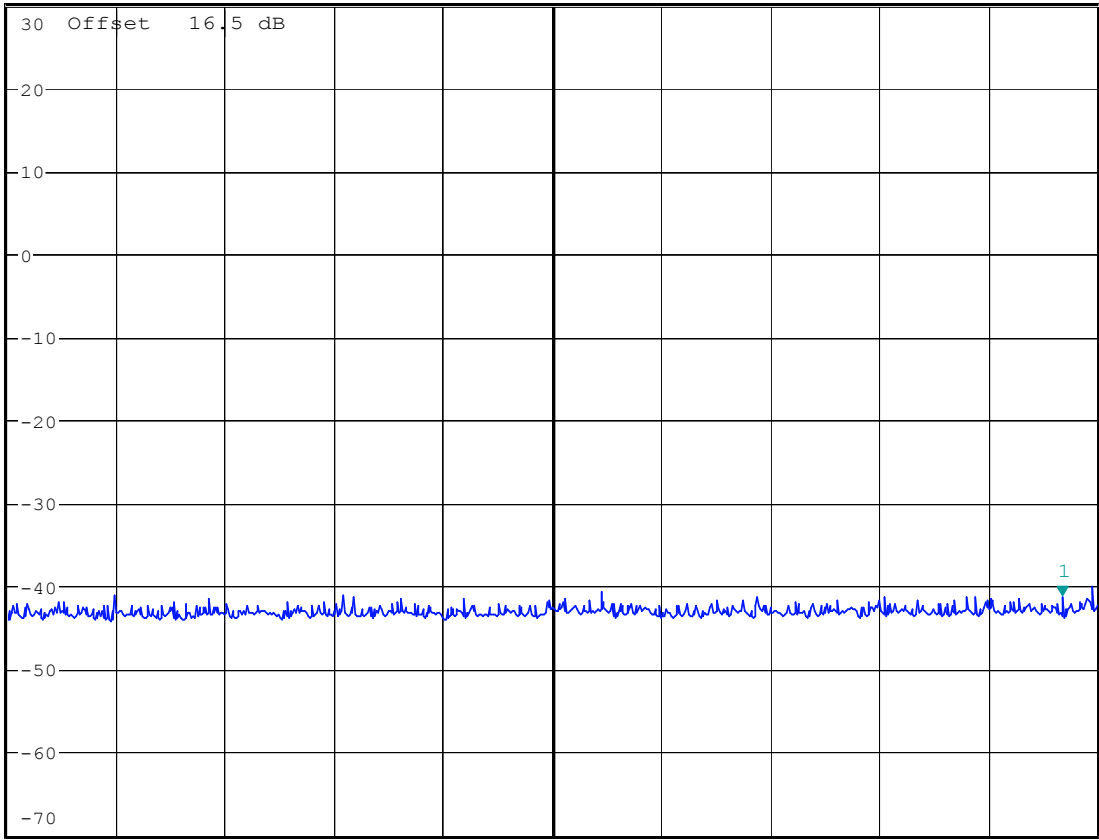
Date: 5.JAN.2007 11:38:57



*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -41.39 dBm
*SWT 200 ms 194.551282051 MHz

Ref 30 dBm *Att 30 dB

1 PK
MAXH



Start 30 MHz 17 MHz/ Stop 200 MHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH661

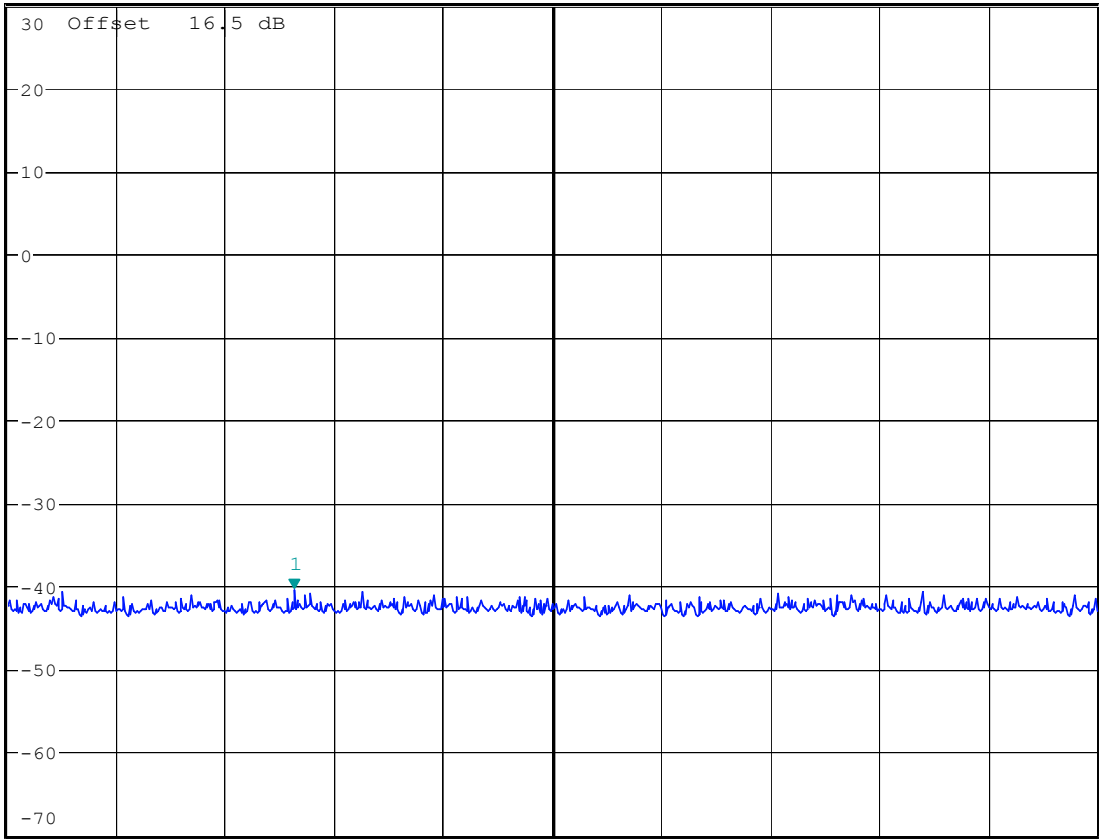
Date: 5.JAN.2007 11:18:48



*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -40.46 dBm
*SWT 200 ms 410.256410256 MHz

Ref 30 dBm *Att 30 dB

1 PK
MAXH



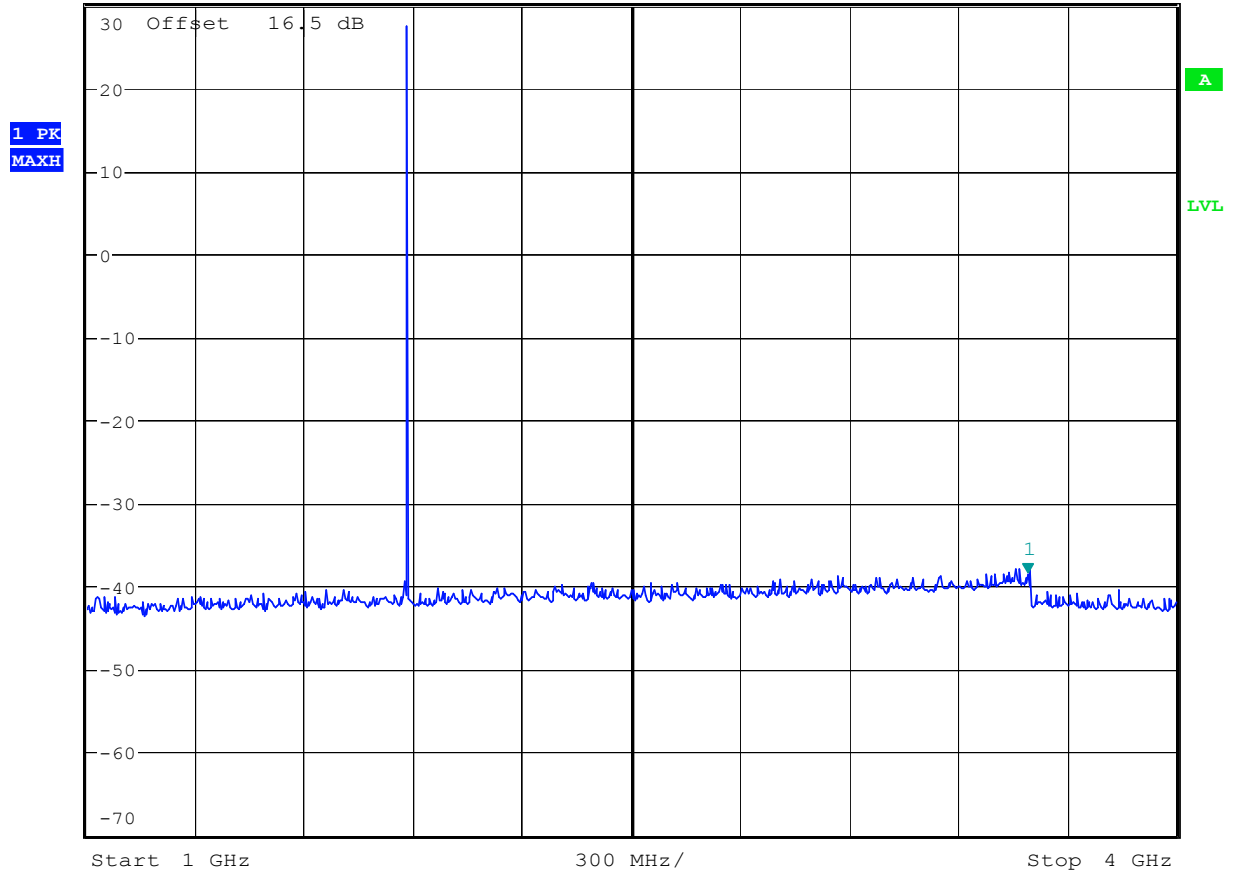
Start 200 MHz 80 MHz/ Stop 1 GHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH661

Date: 5.JAN.2007 11:20:03



Ref 30 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -38.59 dBm
*SWT 200 ms 3.591346154 GHz



CONDUCTED SPURIOUS EMISSION GSM 1900 CH661

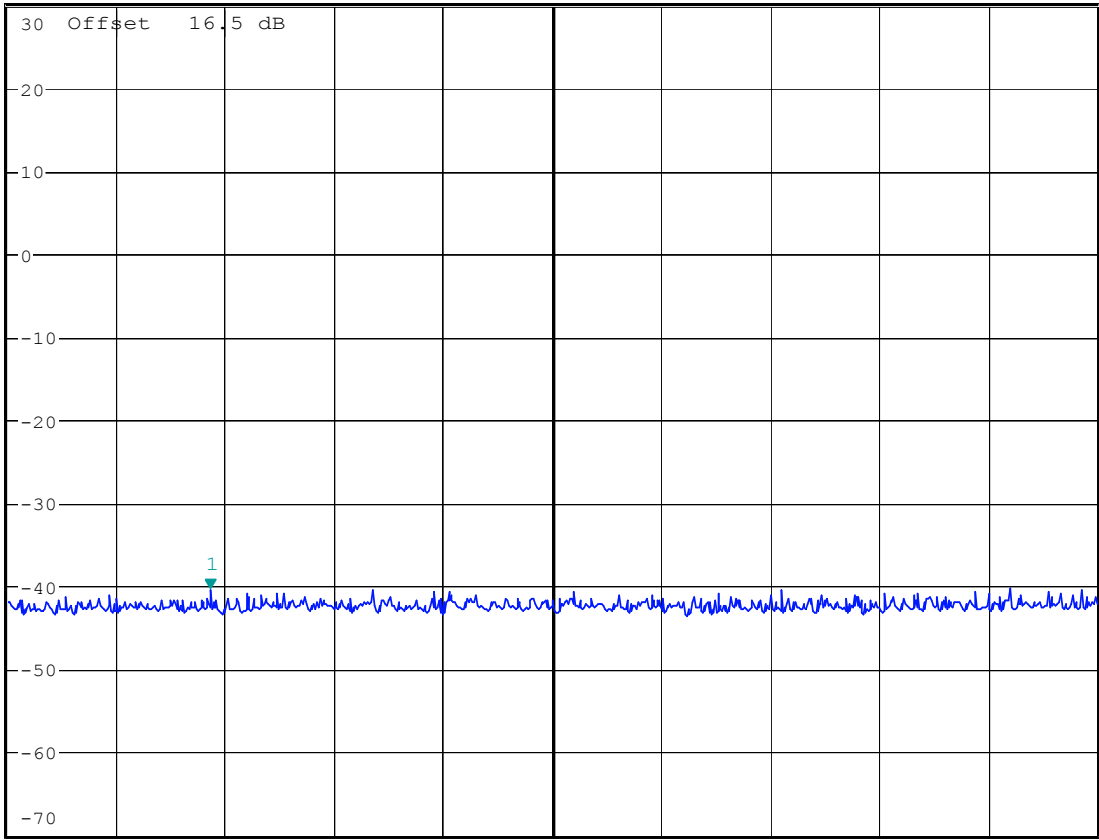
Date: 5.JAN.2007 11:21:28



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -40.41 dBm
*SWT 200 ms 4.743589744 GHz

Ref 30 dBm *Att 30 dB

1 PK
MAXH



Start 4 GHz 400 MHz/ Stop 8 GHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH661

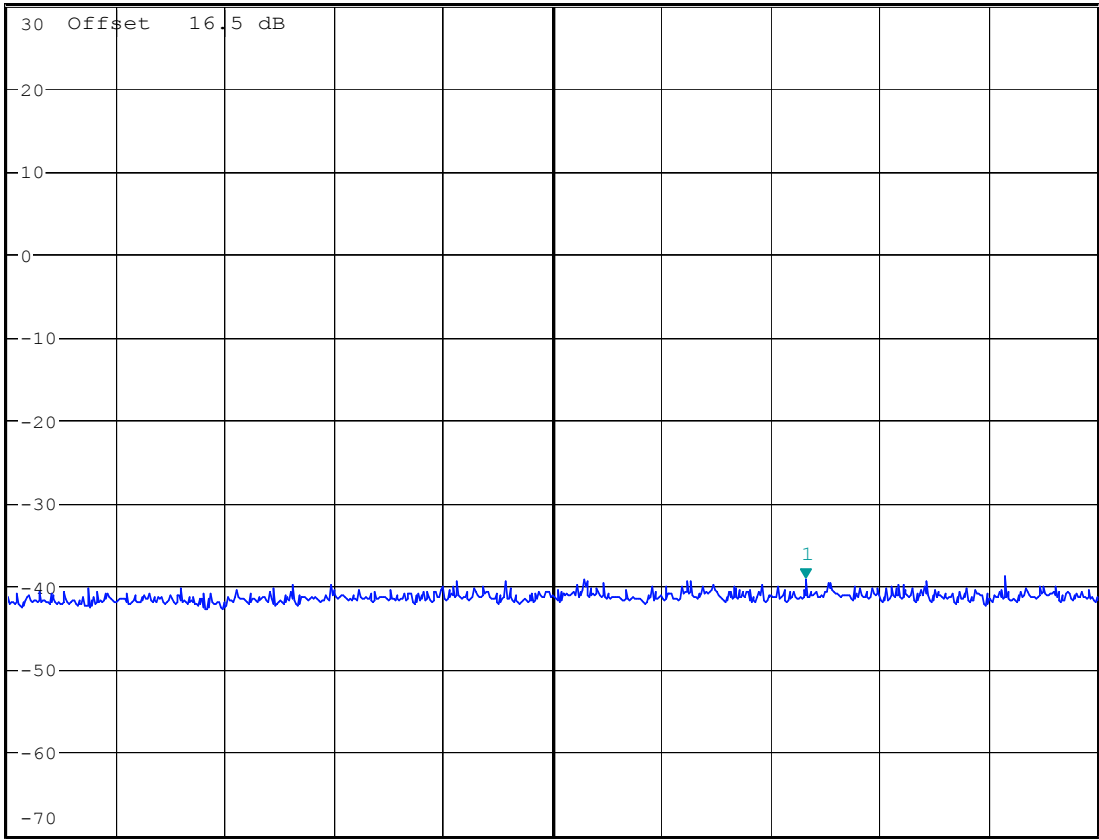
Date: 5.JAN.2007 11:23:21



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -39.18 dBm
*SWT 200 ms 11.478766026 GHz

Ref 30 dBm *Att 30 dB

1 PK
MAXH



Start 8 GHz 475 MHz/ Stop 12.75 GHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH661

Date: 5.JAN.2007 11:36:10

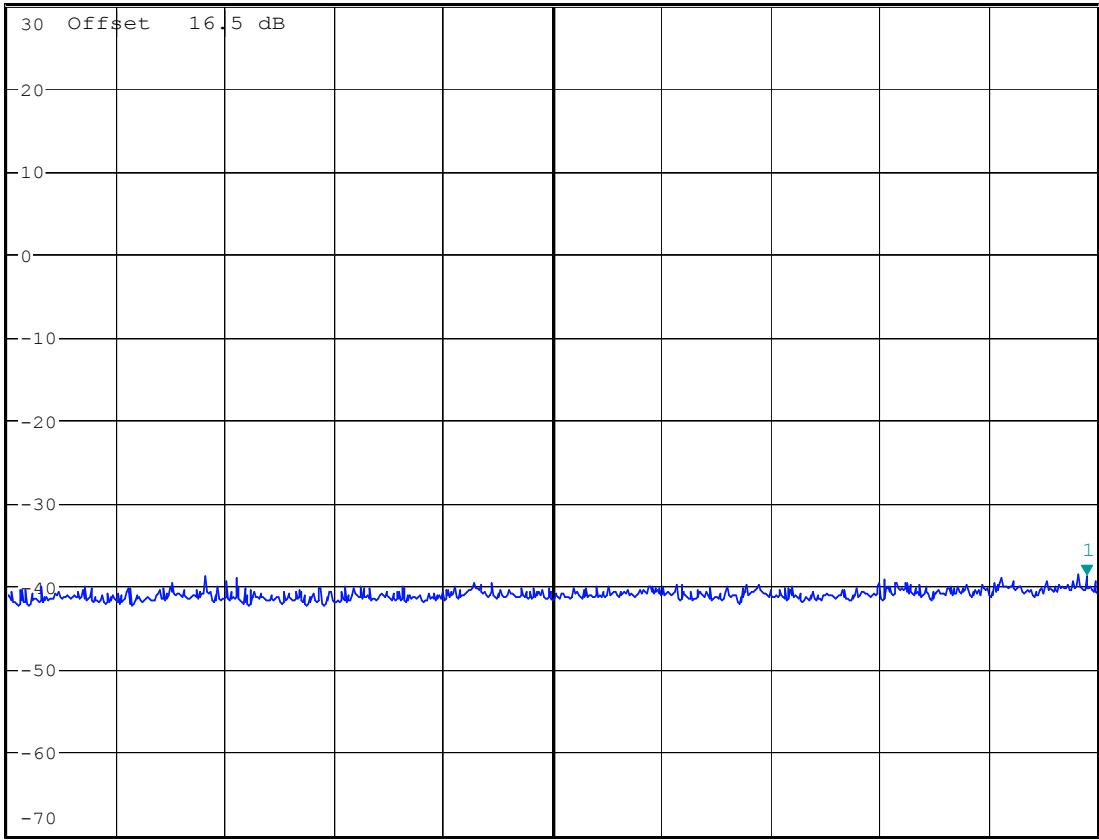


*RBW 1 MHz
*VBW 1 MHz
*SWT 200 ms

Marker 1 [T1]
-38.71 dBm
17.949519231 GHz

Ref 30 dBm *Att 30 dB

1 PK
MAXH



Start 12.75 GHz 525 MHz/ Stop 18 GHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH661

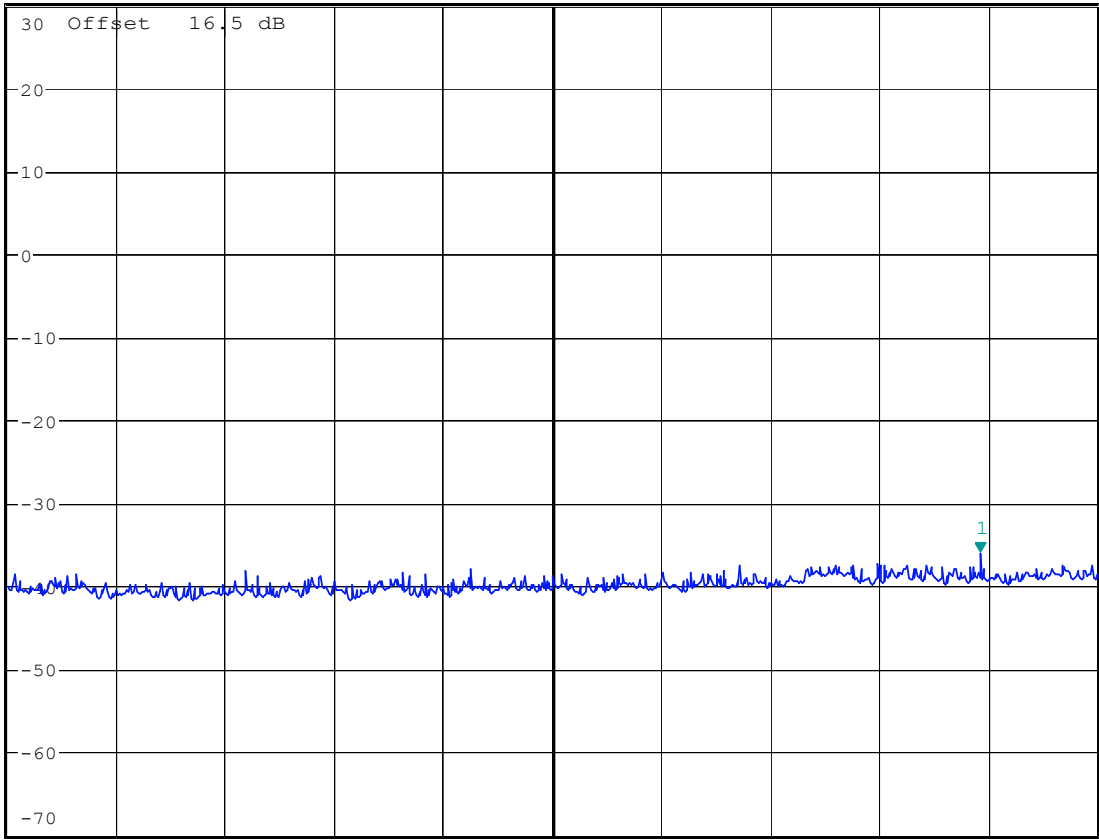
Date: 5.JAN.2007 11:38:10



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -36.12 dBm
*SWT 200 ms 25.587339744 GHz

Ref 30 dBm *Att 30 dB

1 PK
MAXH



Start 18 GHz 850 MHz/ Stop 26.5 GHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH661

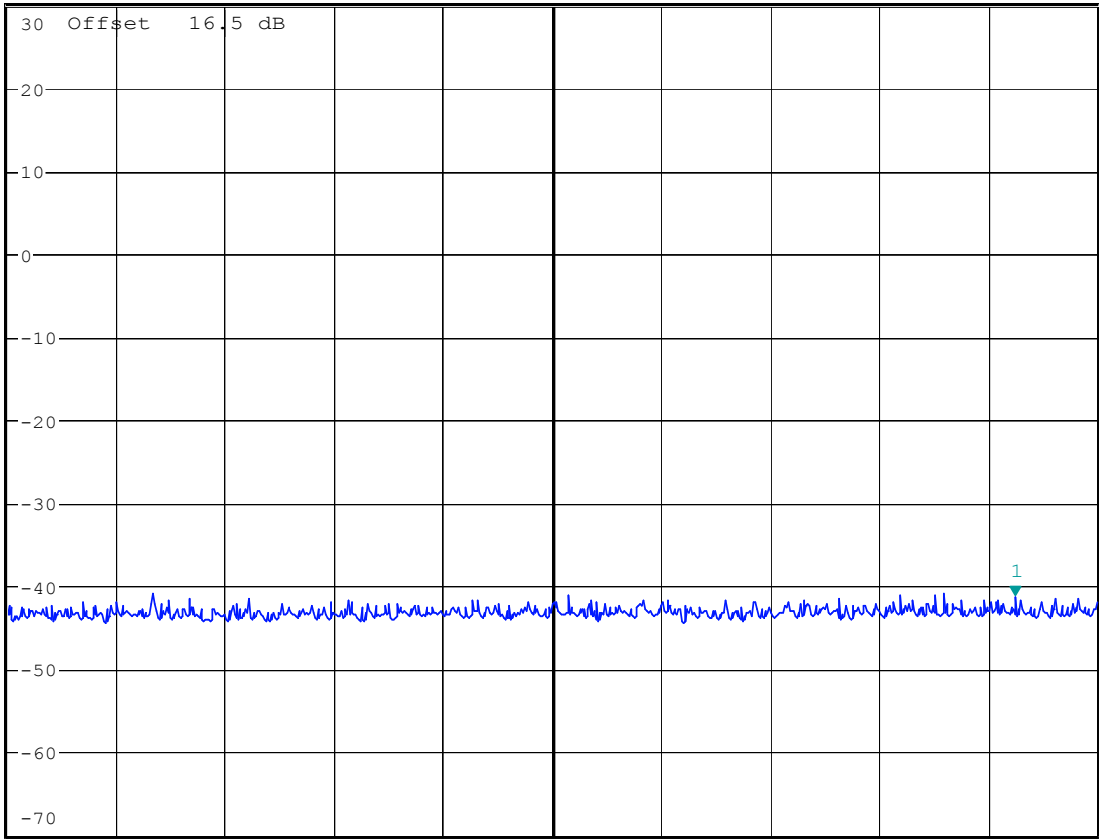
Date: 5.JAN.2007 11:39:22



*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -41.24 dBm
*SWT 200 ms 187.195512821 MHz

Ref 30 dBm *Att 30 dB

1 PK
MAXH



Start 30 MHz 17 MHz/ Stop 200 MHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH810

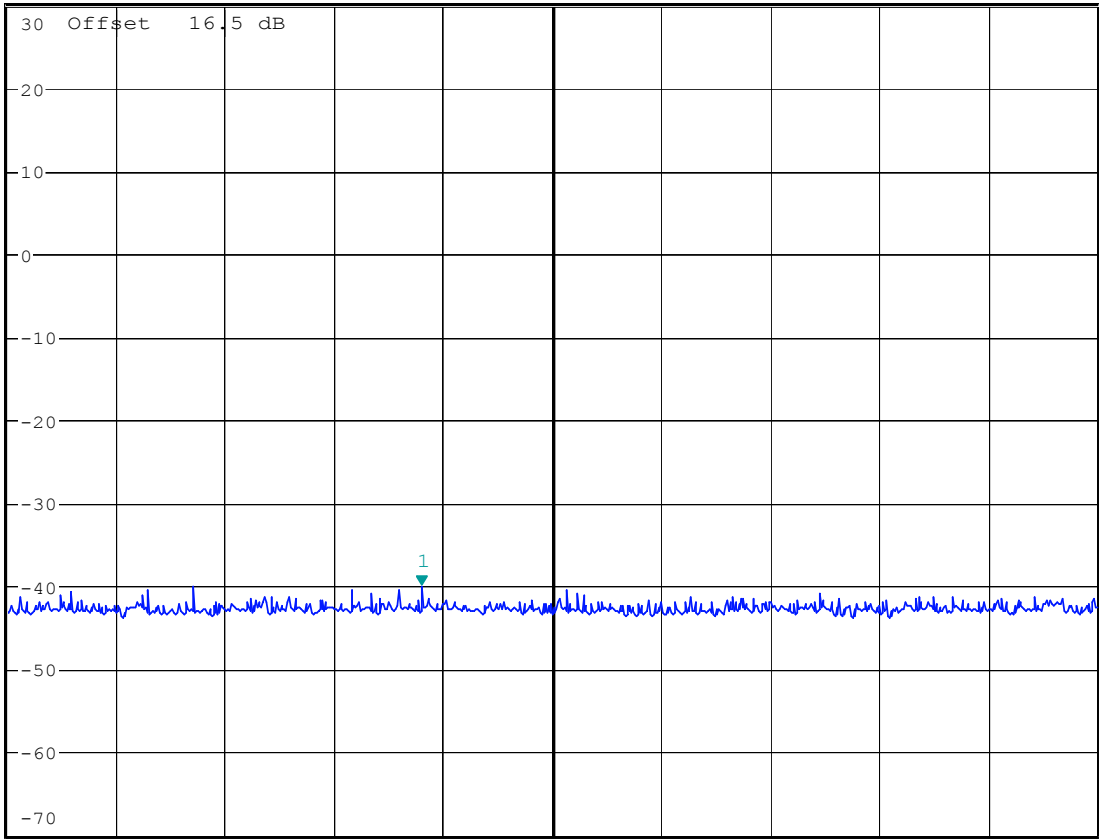
Date: 5.JAN.2007 11:19:12



*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -40.03 dBm
*SWT 200 ms 503.846153846 MHz

Ref 30 dBm *Att 30 dB

1 PK
MAXH



Start 200 MHz 80 MHz/ Stop 1 GHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH810

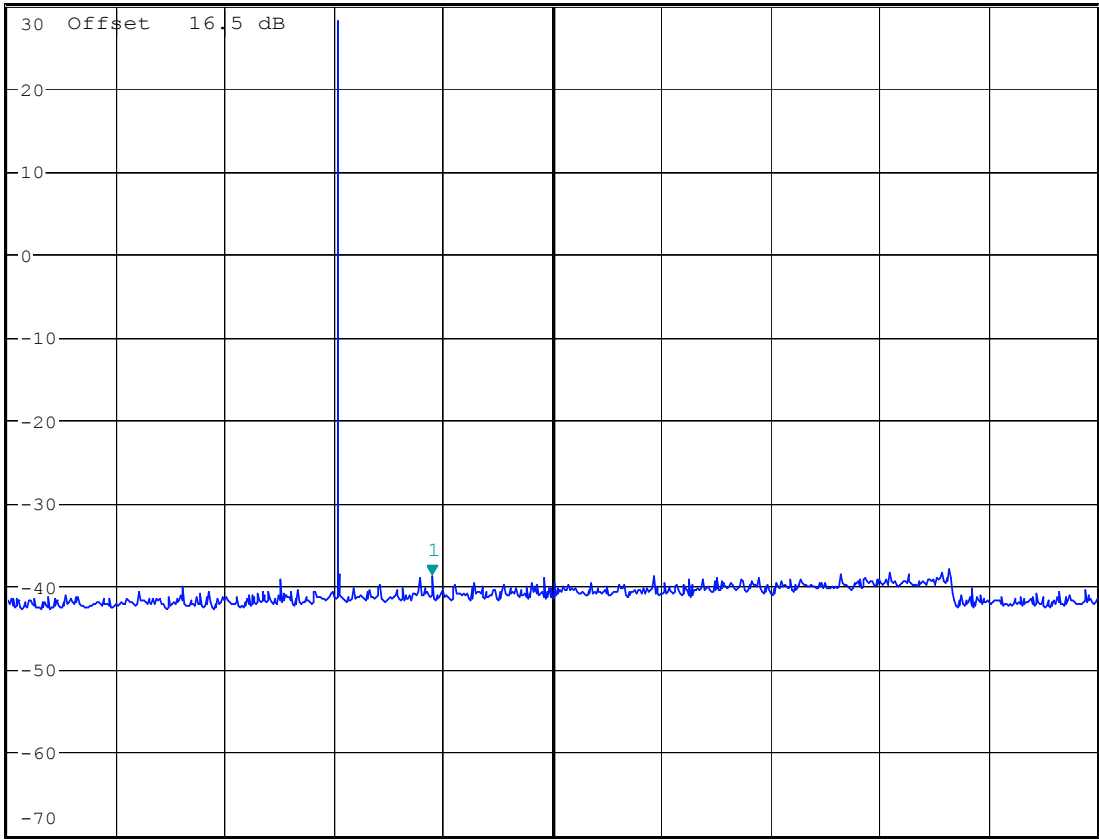
Date: 5.JAN.2007 11:19:36



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -38.85 dBm
*SWT 200 ms 2.168269231 GHz

Ref 30 dBm *Att 30 dB

1 PK
MAXH



Start 1 GHz 300 MHz/ Stop 4 GHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH810

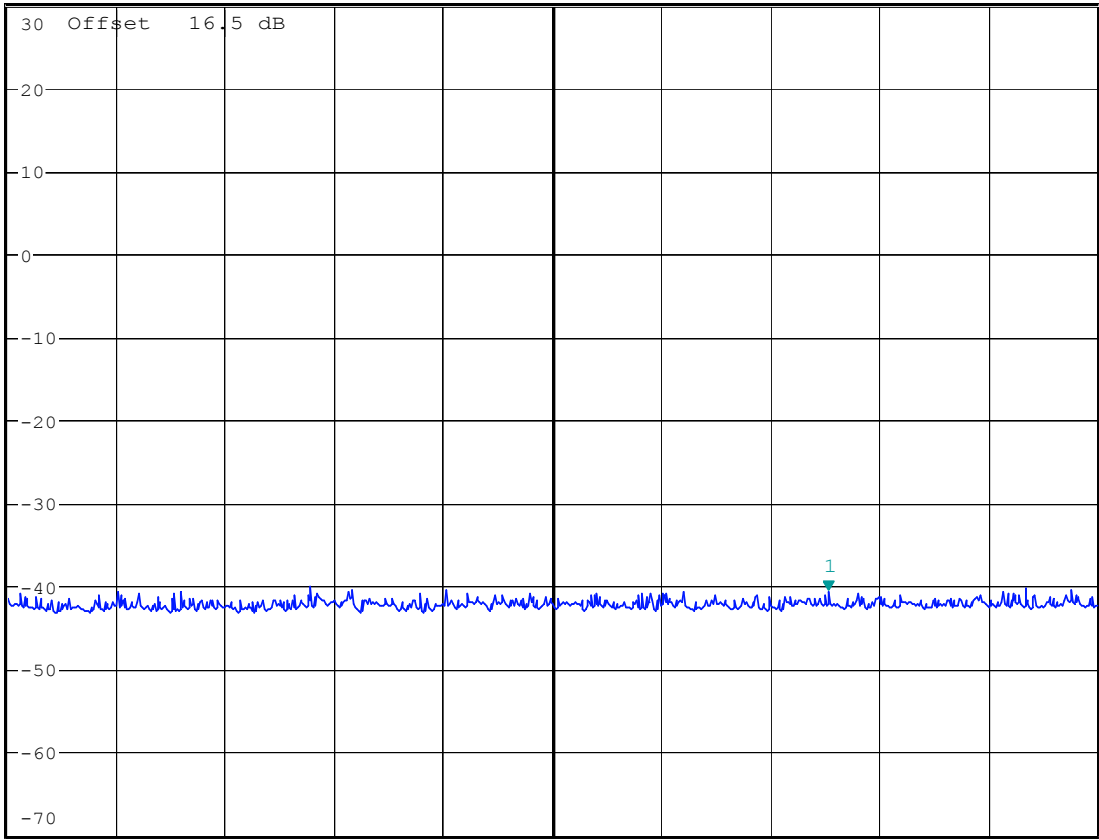
Date: 5.JAN.2007 11:22:23



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -40.66 dBm
*SWT 200 ms 7.012820513 GHz

Ref 30 dBm *Att 30 dB

1 PK
MAXH



Start 4 GHz 400 MHz/ Stop 8 GHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH810

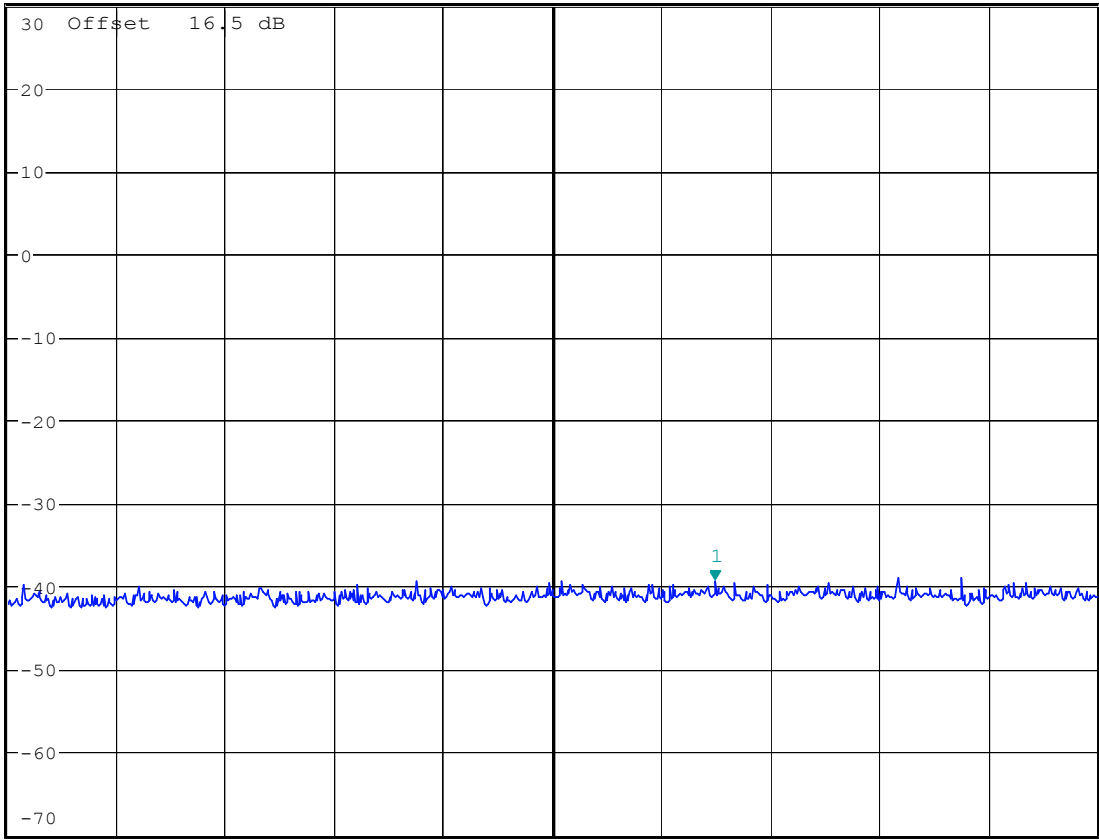
Date: 5.JAN.2007 11:22:56



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -39.53 dBm
*SWT 200 ms 11.082932692 GHz

Ref 30 dBm *Att 30 dB

1 PK
MAXH



Start 8 GHz 475 MHz/ Stop 12.75 GHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH810

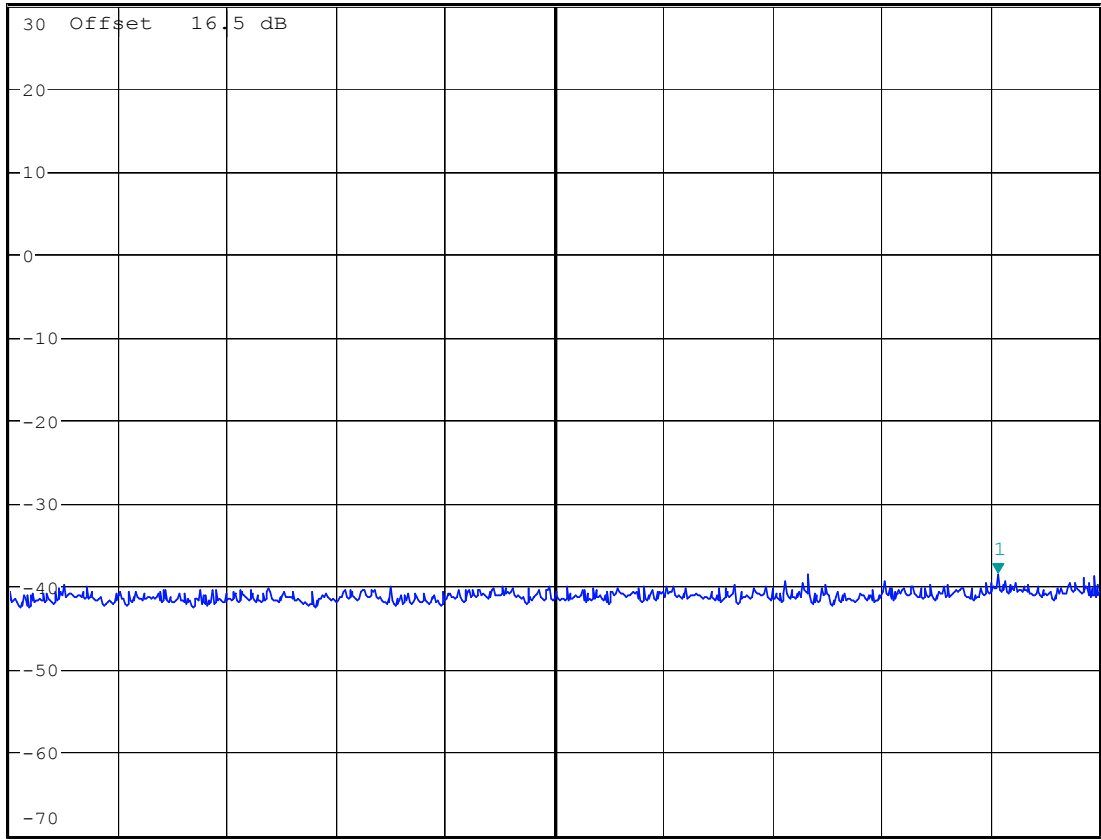
Date: 5.JAN.2007 11:37:02



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -38.51 dBm
*SWT 200 ms 17.512019231 GHz

Ref 30 dBm *Att 30 dB

1 PK
MAXH



Start 12.75 GHz 525 MHz/ Stop 18 GHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH810

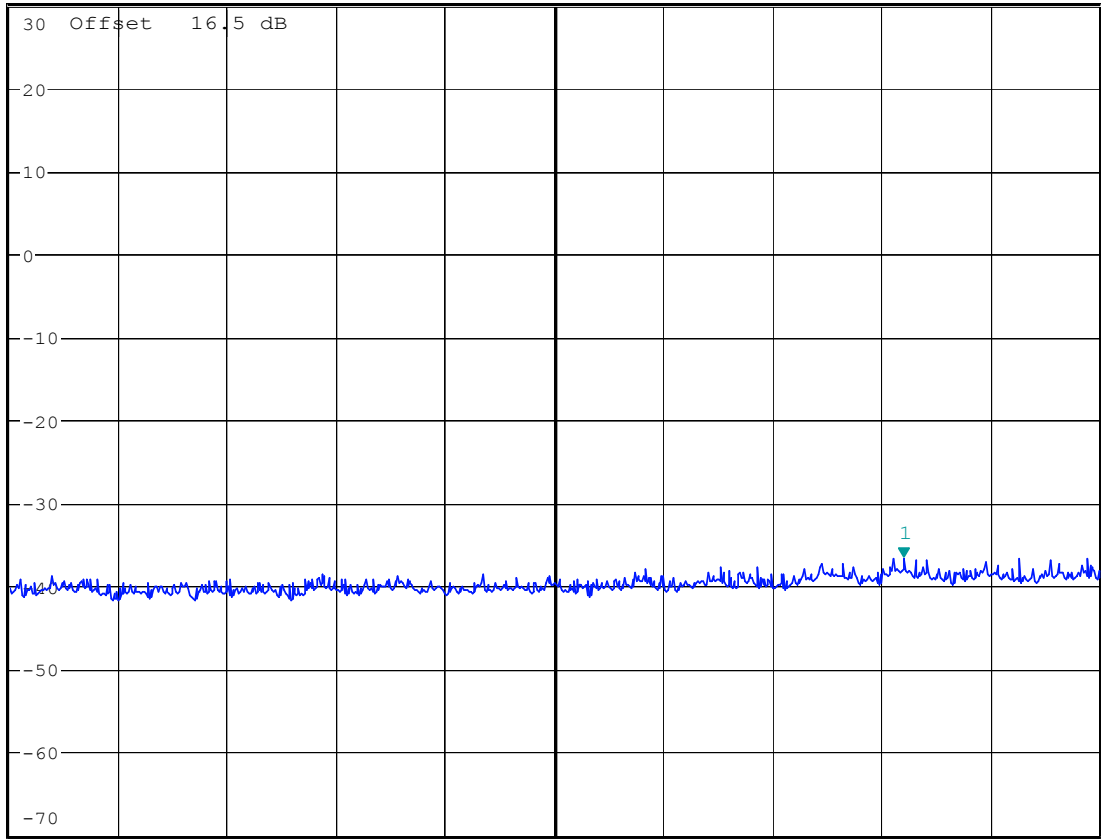
Date: 5.JAN.2007 11:37:33



*RBW 1 MHz Marker 1 [T1]
*VBW 1 MHz -36.73 dBm
*SWT 200 ms 24.974358974 GHz

Ref 30 dBm *Att 30 dB

1 PK
MAXH



Start 18 GHz 850 MHz/ Stop 26.5 GHz

CONDUCTED SPURIOUS EMISSION GSM 1900 CH810

Date: 5.JAN.2007 11:39:50

Appendix D

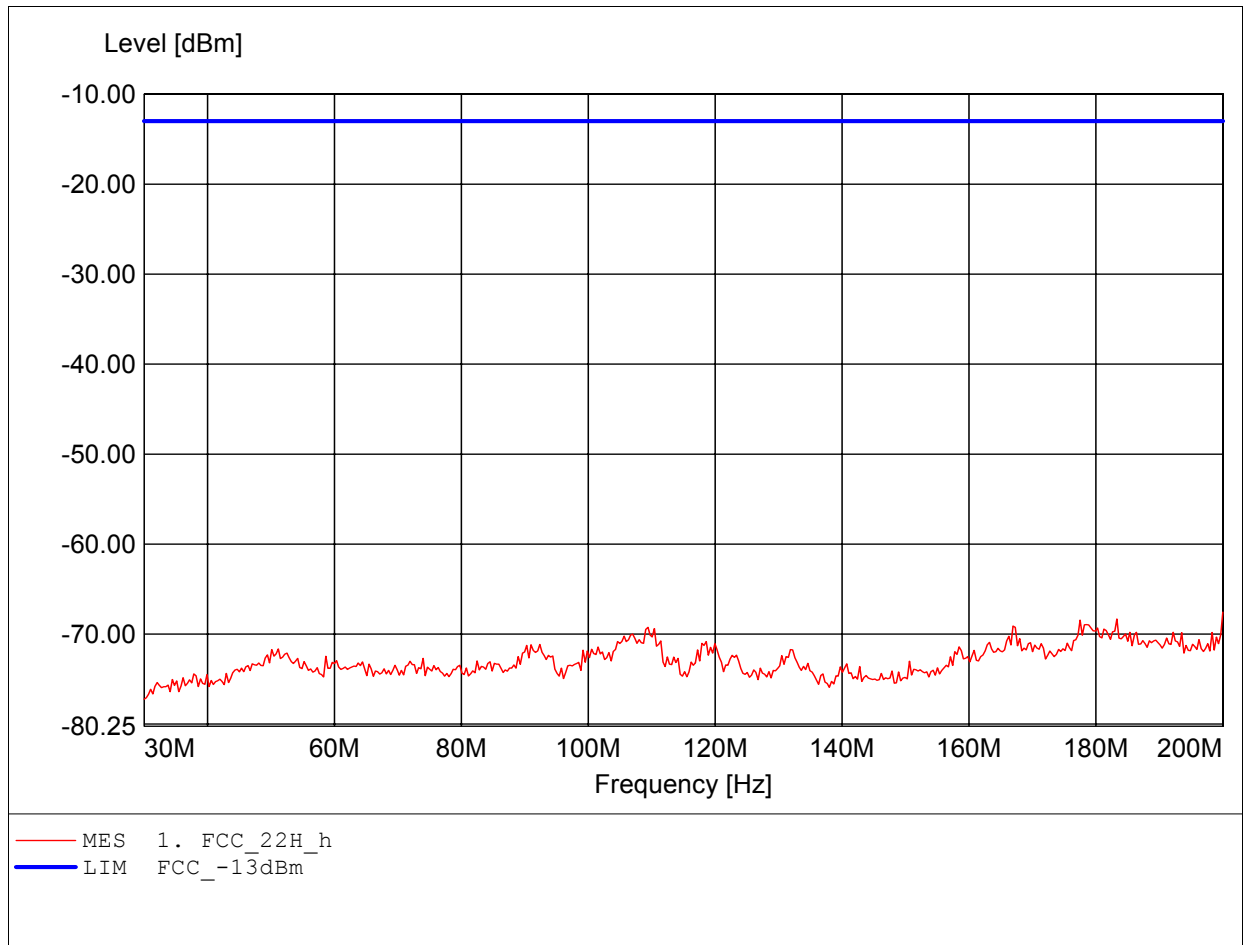
Filed Strength of Spurious Emission

The measurement diagrams plots attached below are preliminary wideband scan with a peak detector and for reference only. The final test results are listed on page section 7.2.

Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

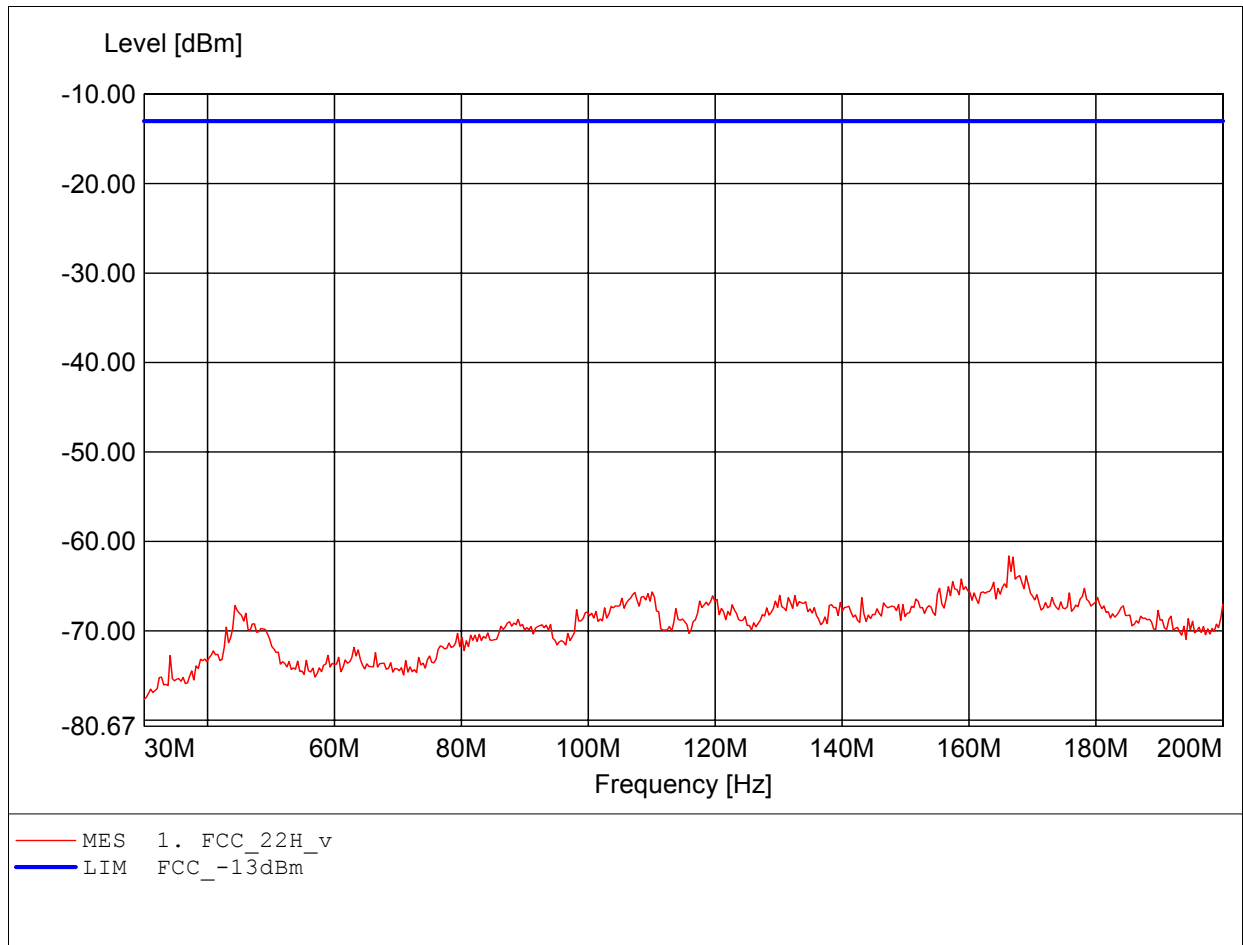
Order Number : W6M20612-7664 850Band CH128
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 200.000MHz, Pmax: -67.57dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

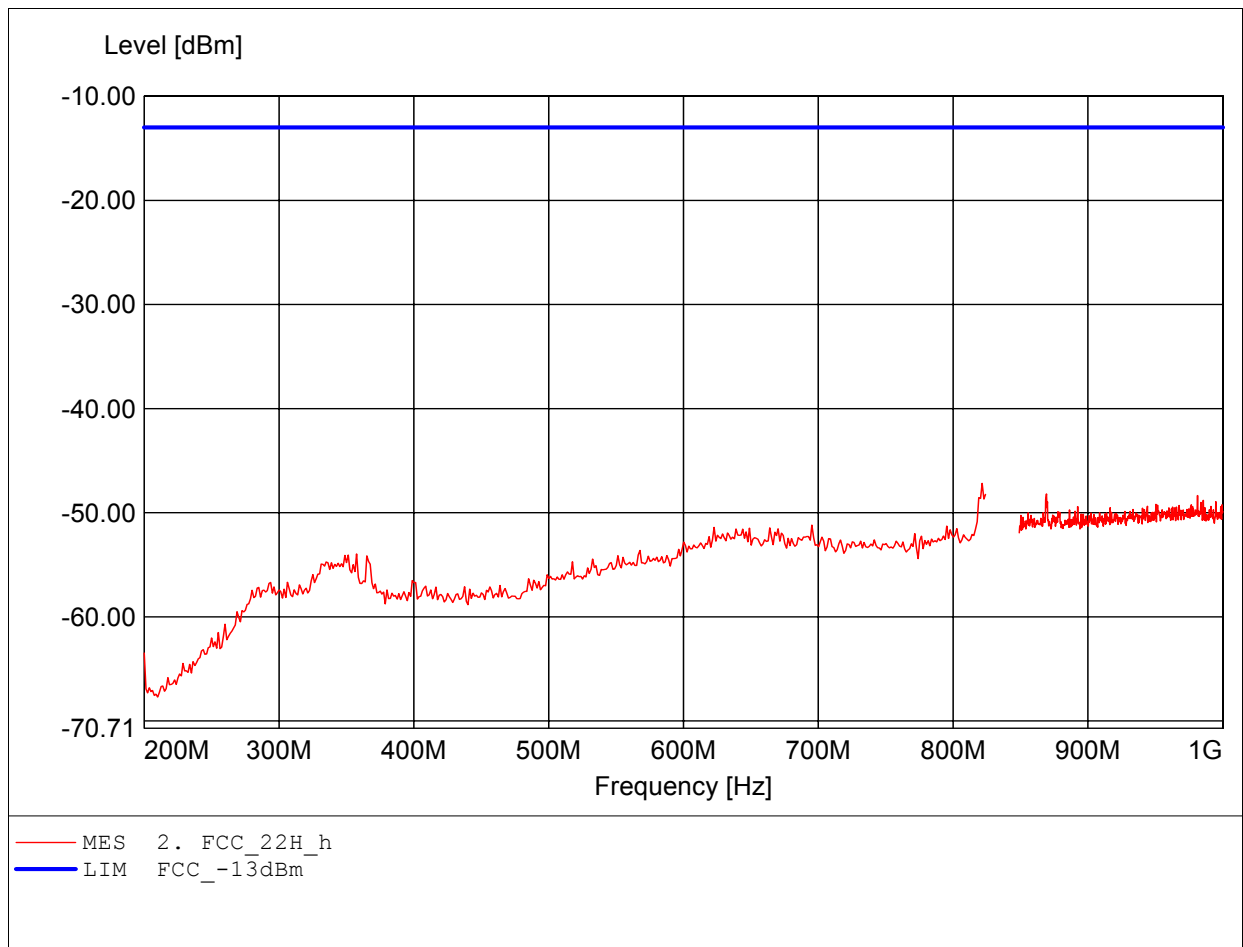
Order Number : W6M20612-7664 850Band CH128
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 166.273MHz, Pmax: -61.63dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

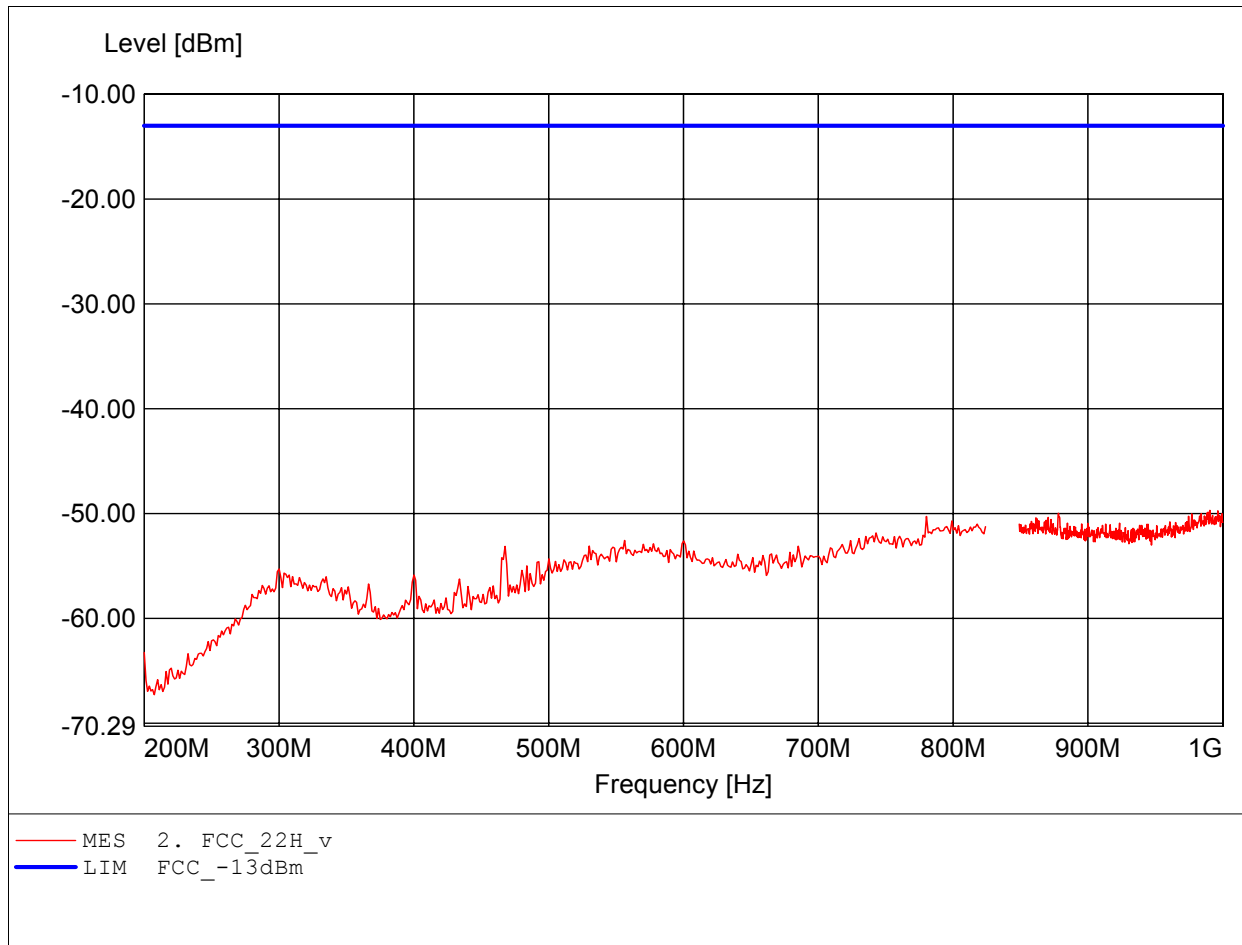
Order Number : W6M20612-7664 850Band CH128
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL 223+notch
Freq: 821.499MHz, Pmax: -47.19dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

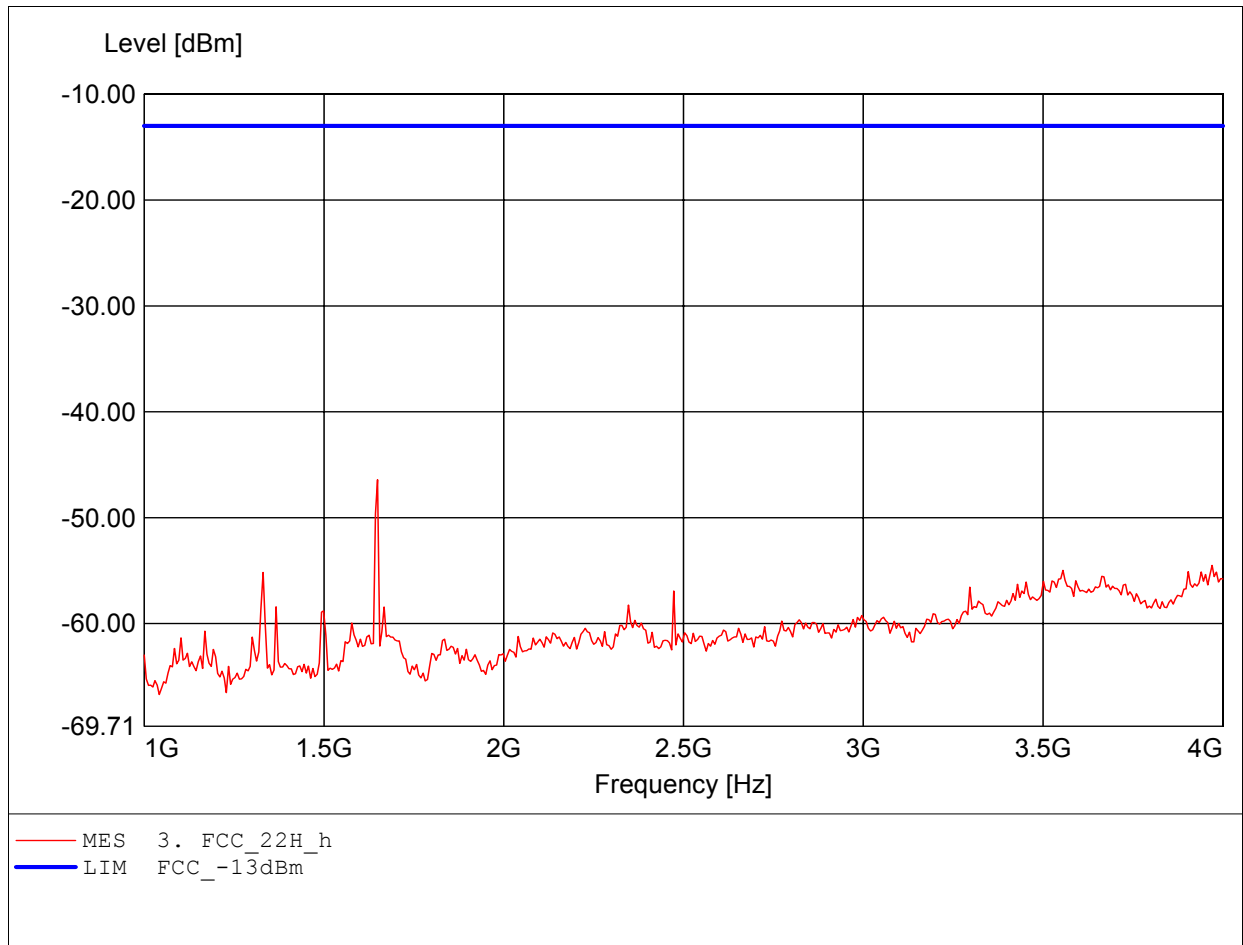
Order Number : W6M20612-7664 850Band CH128
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL 223+notch
Freq: 990.317MHz, Pmax: -49.68dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

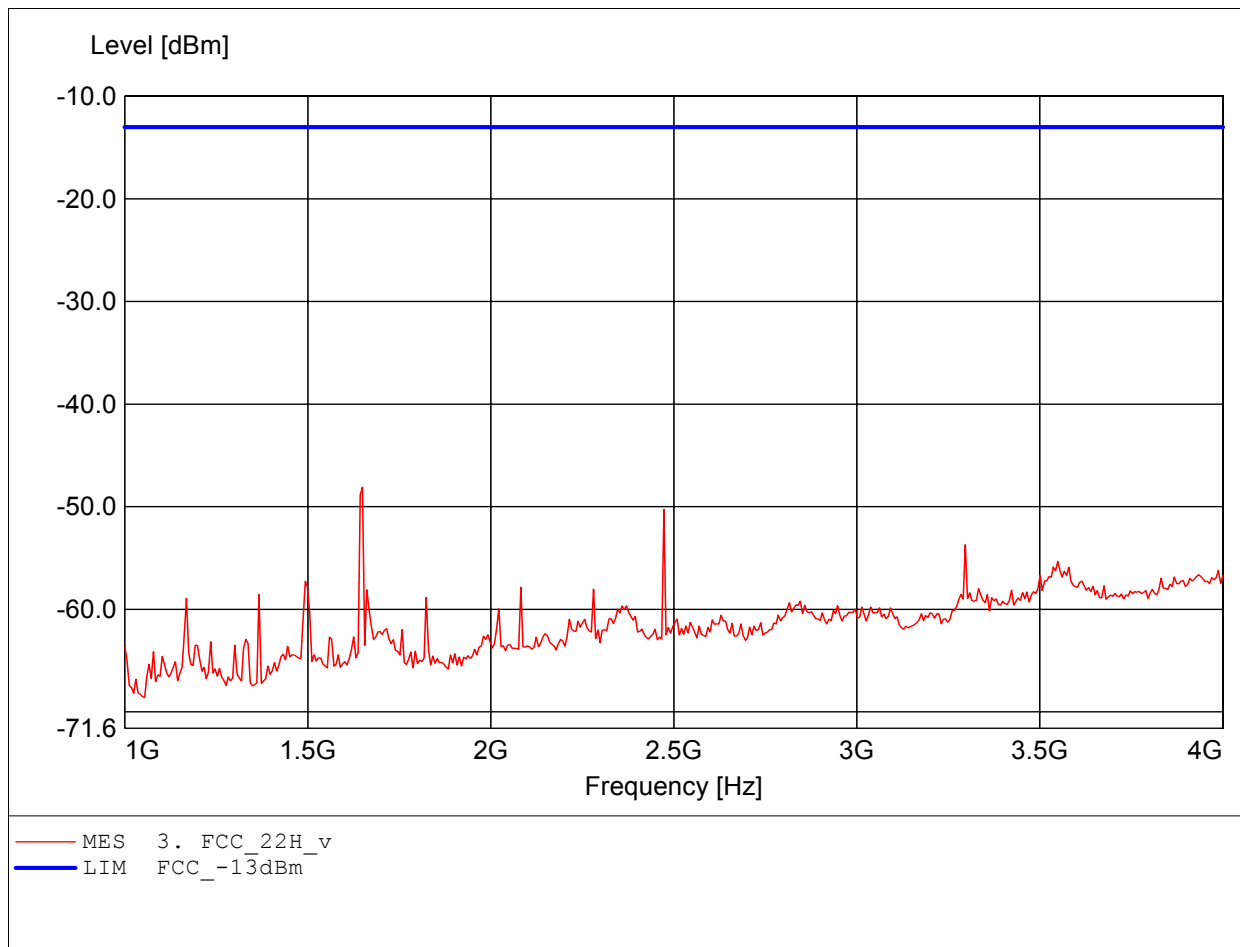
Order Number : W6M20612-7664 850Band CH128
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 1.649GHz, Pmax: -46.43dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

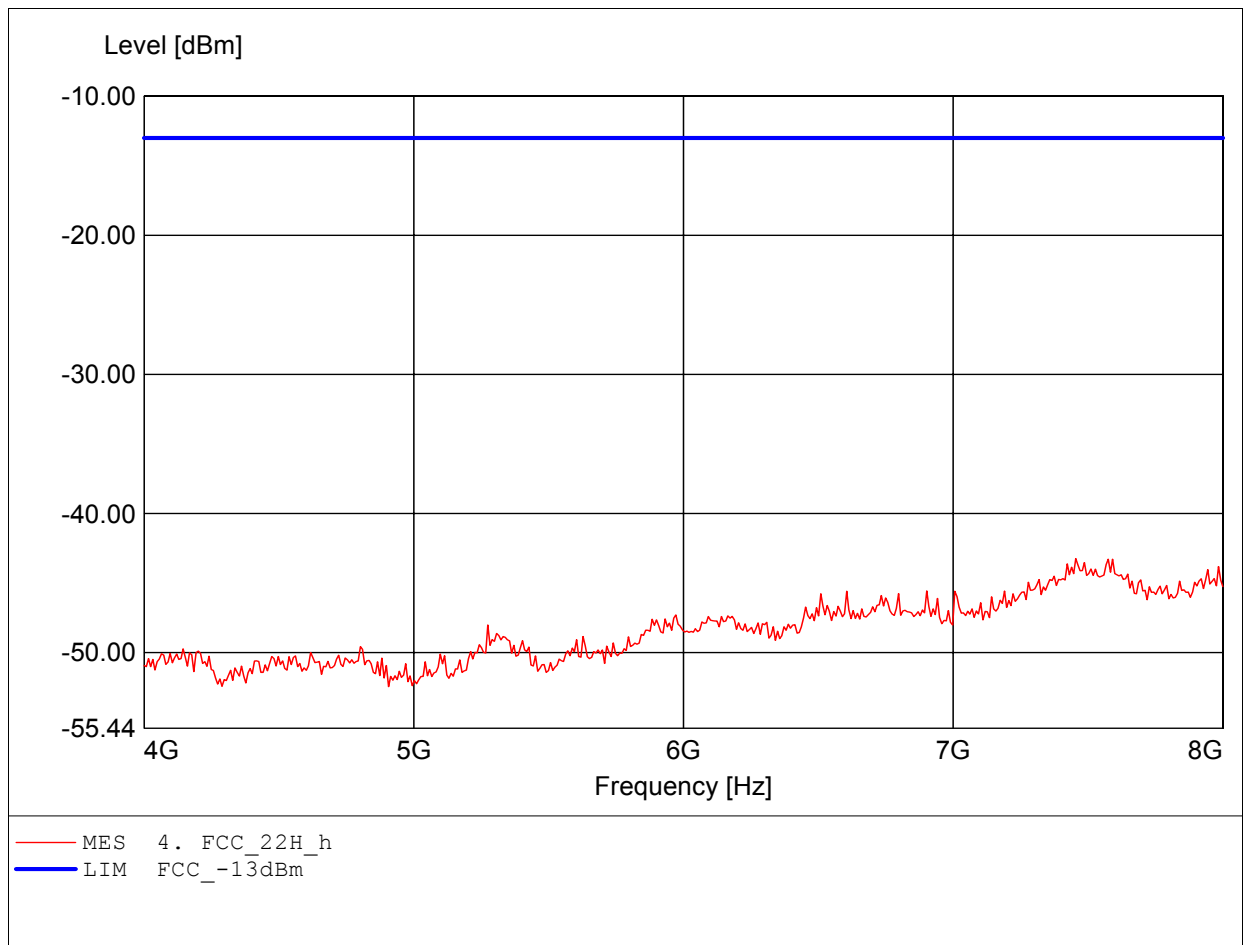
Order Number : W6M20612-7664 850Band CH128
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 1.649GHz, Pmax: -48.10dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

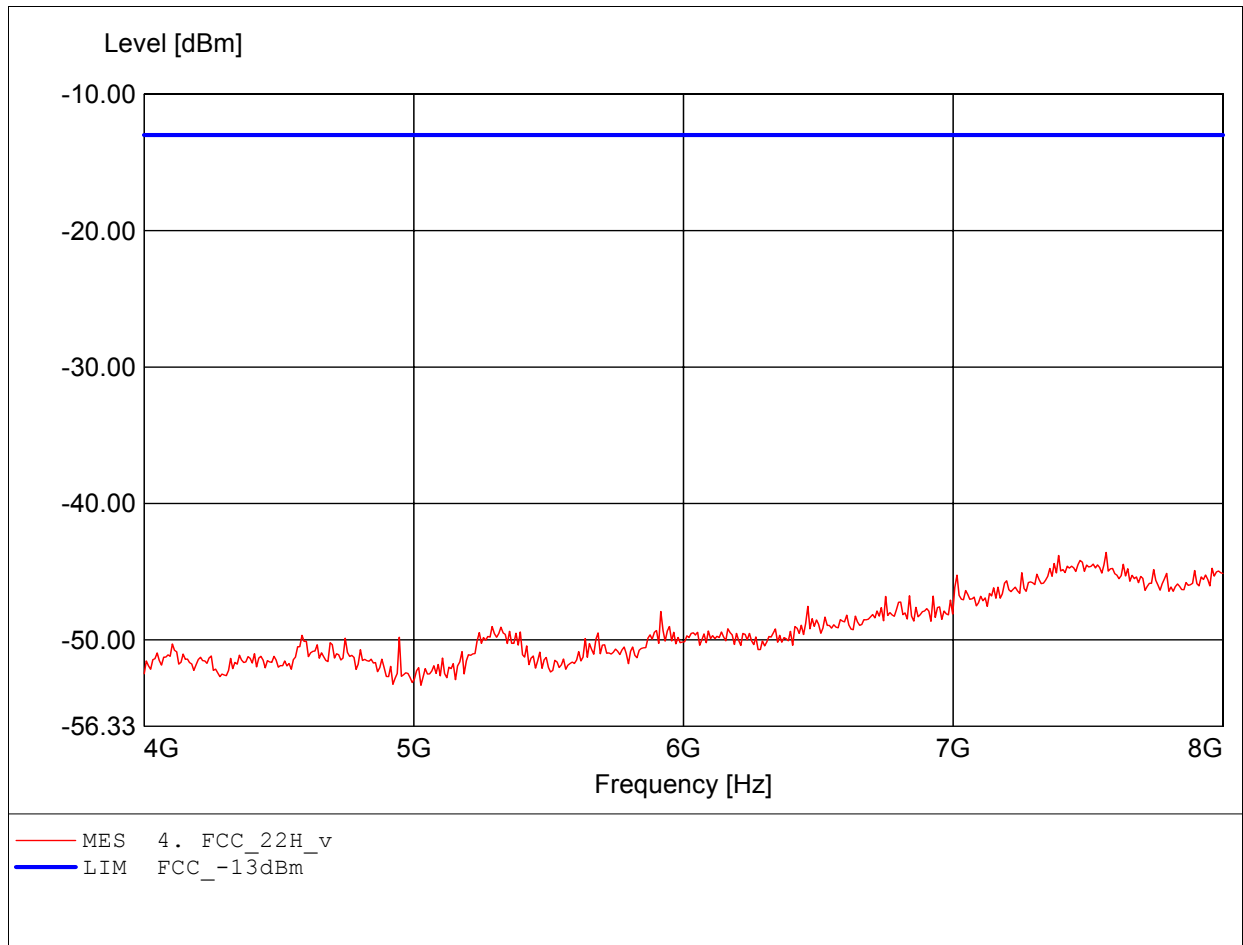
Order Number : W6M20612-7664 850Band CH128
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.455GHz, Pmax: -43.24dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

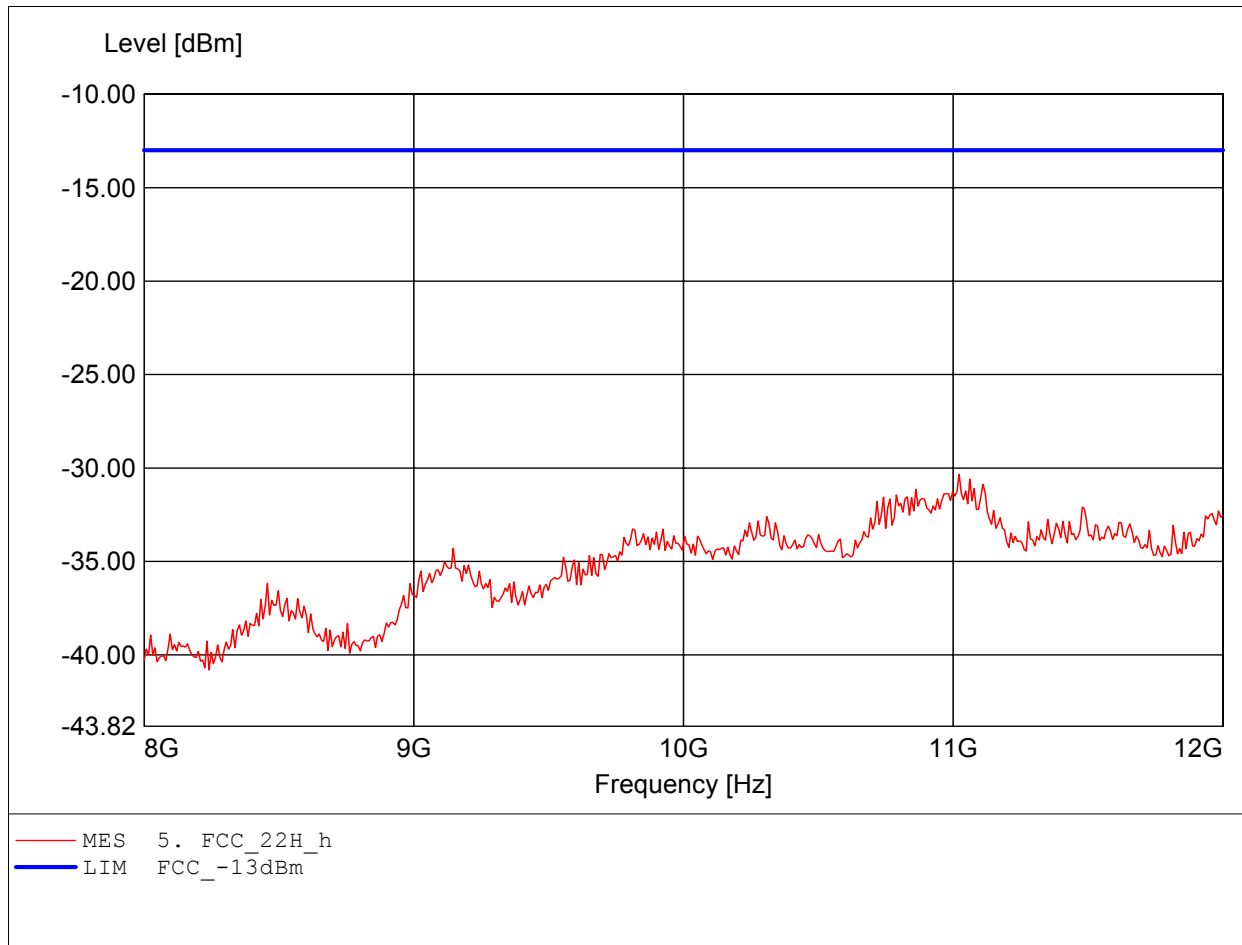
Order Number : W6M20612-7664 850Band CH128
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.567GHz, Pmax: -43.60dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

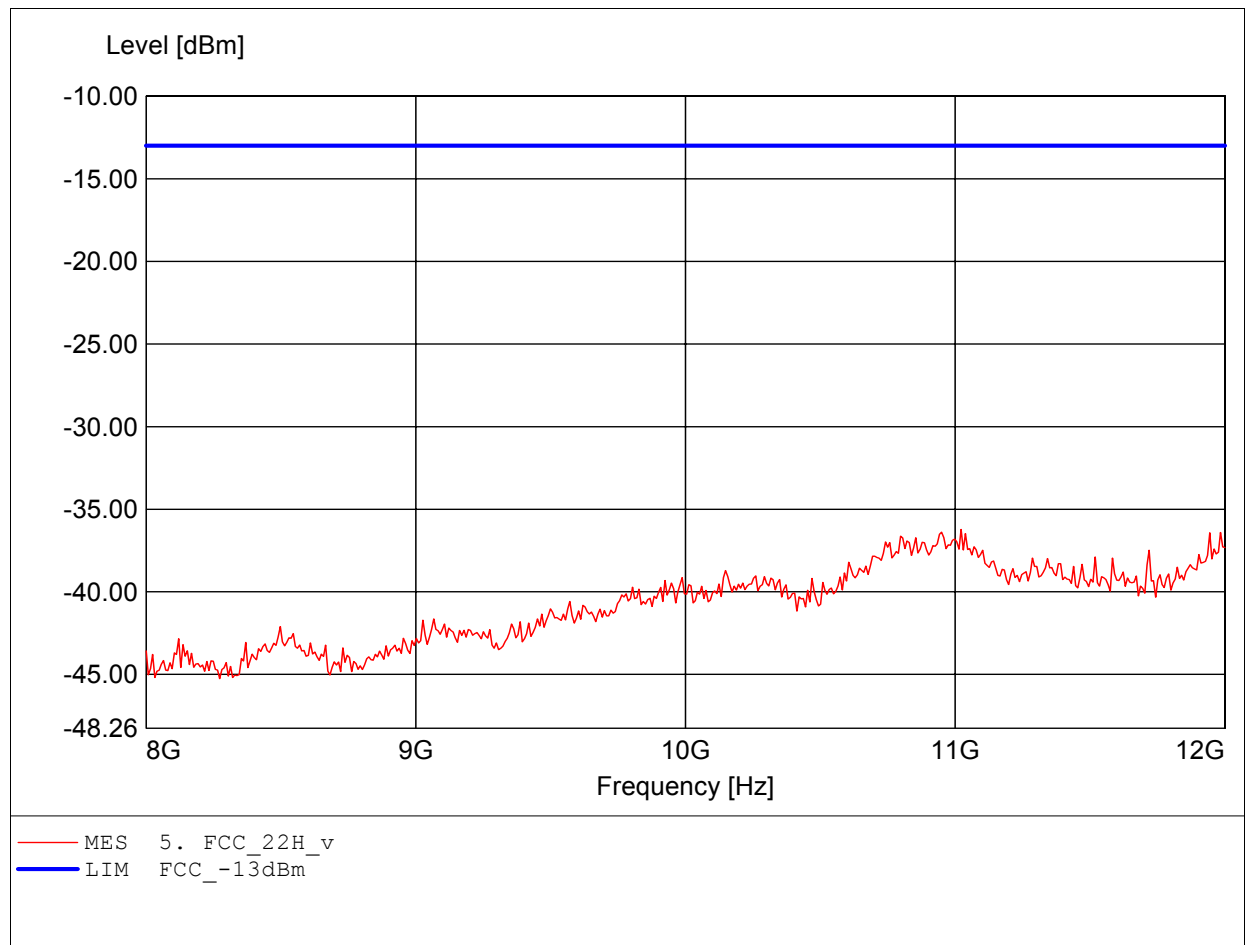
Order Number : W6M20612-7664 850Band CH128
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.022GHz, Pmax: -30.34dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

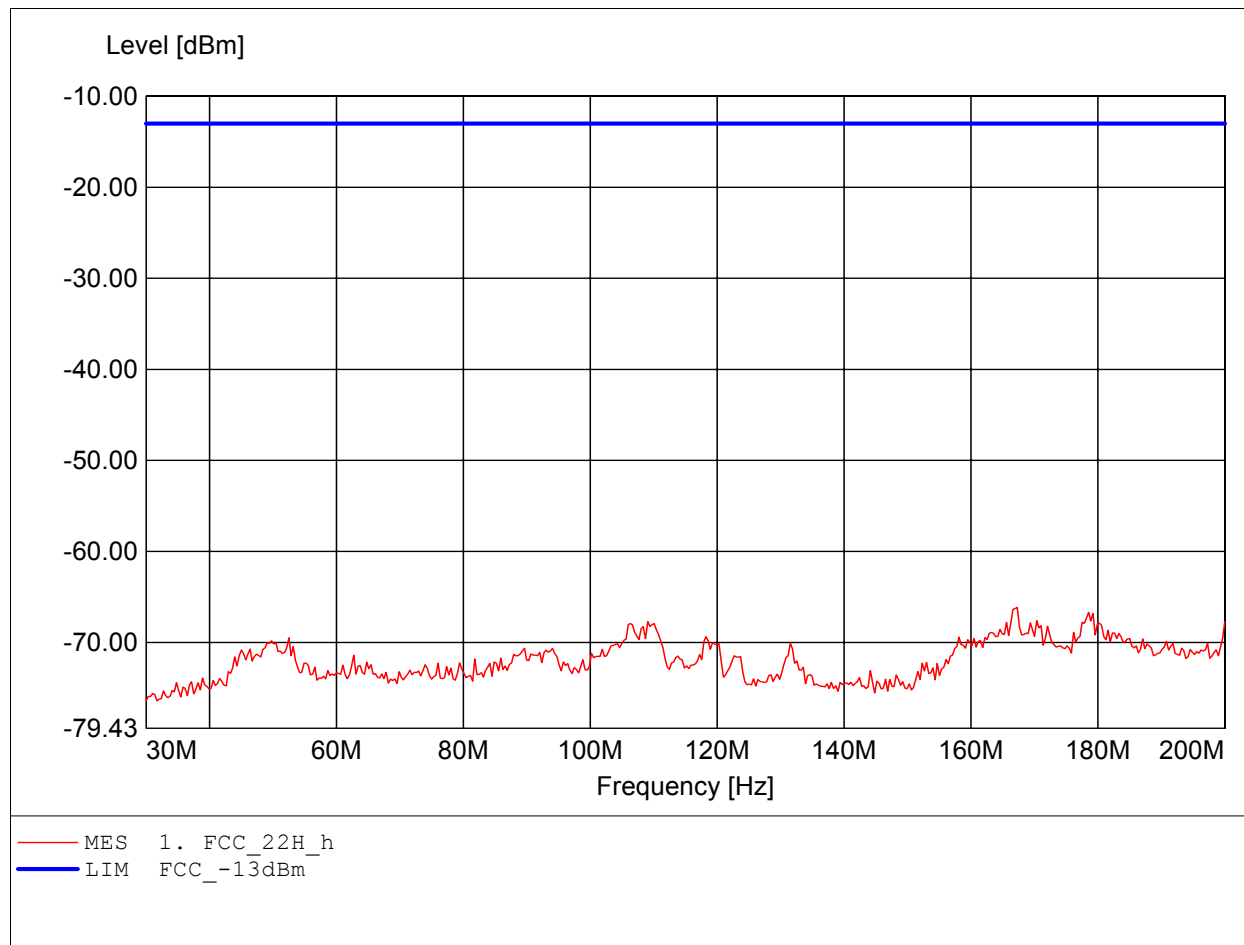
Order Number : W6M20612-7664 850Band CH128
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.022GHz, Pmax: -36.22dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

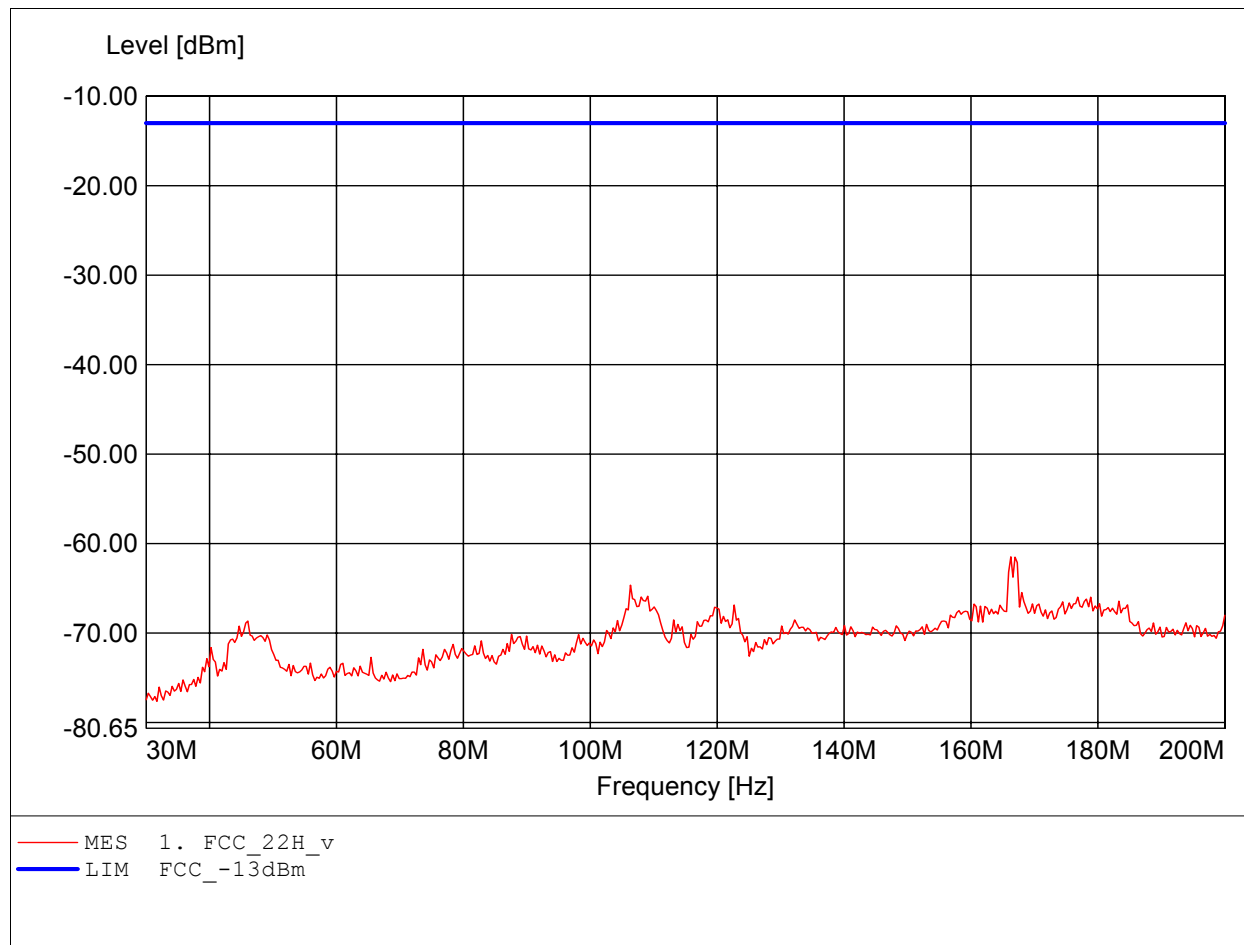
Order Number : W6M20612-7664 850Band CH188
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 167.295MHz, Pmax: -66.15dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

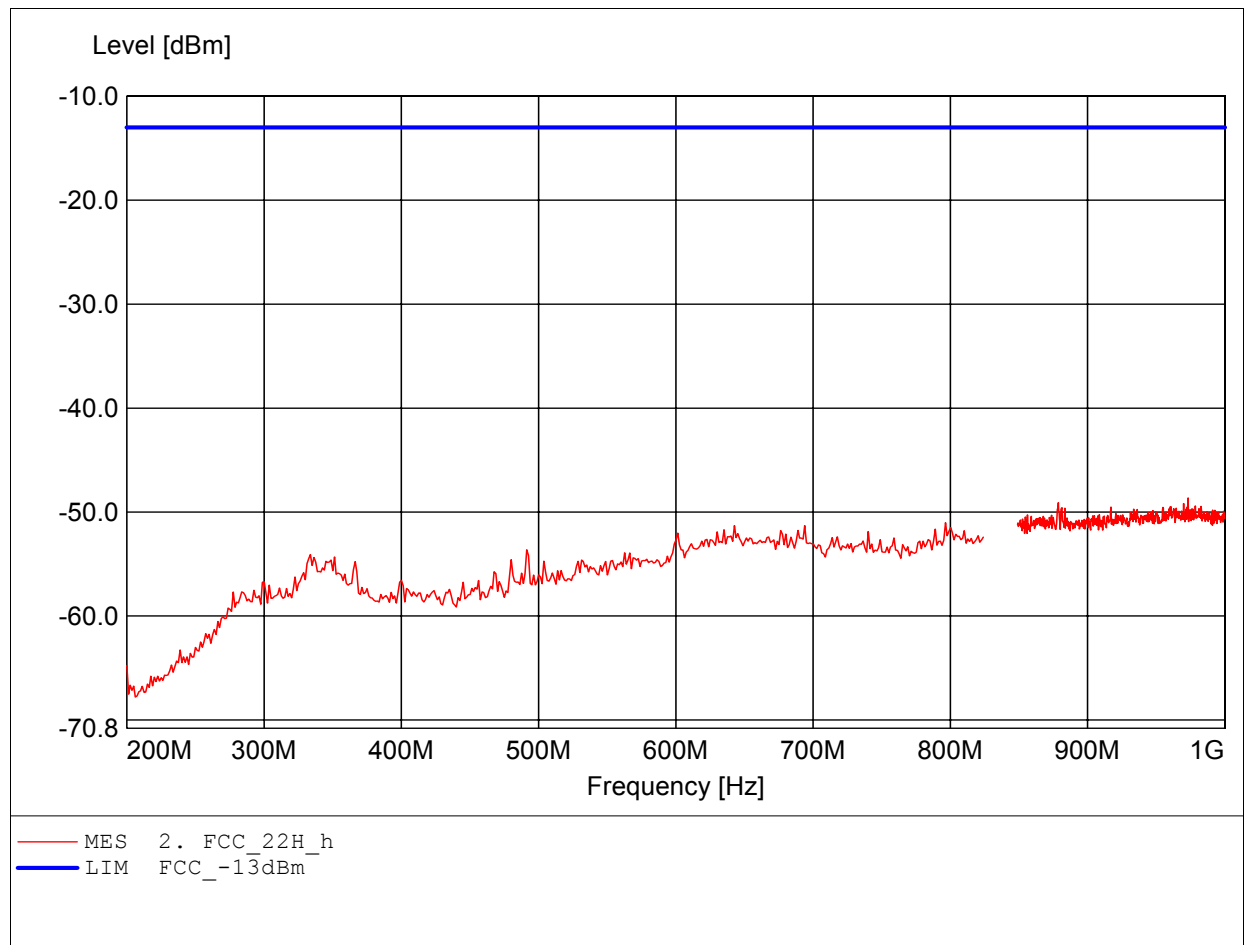
Order Number : W6M20612-7664 850Band CH188
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 166.273MHz, Pmax: -61.48dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

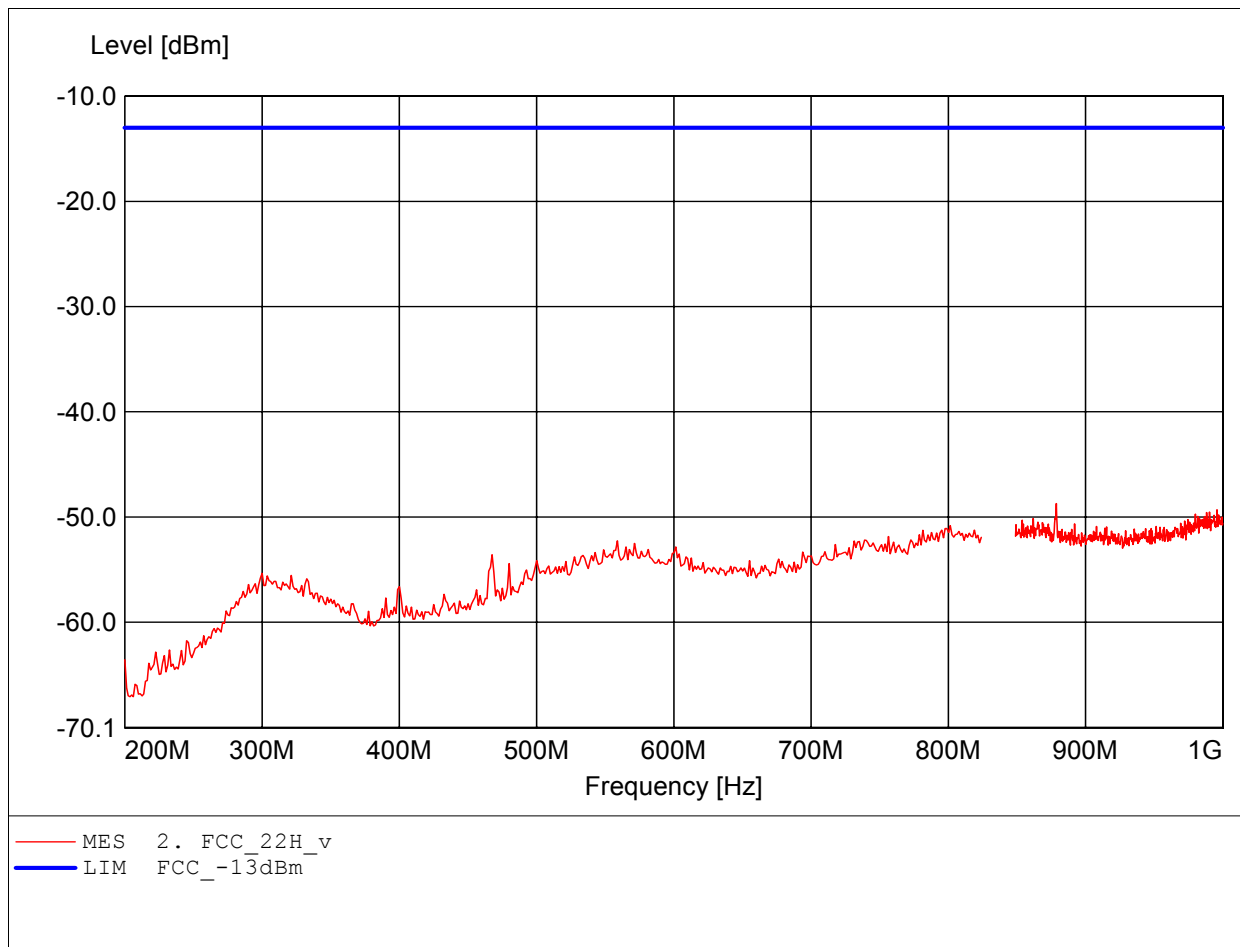
Order Number : W6M20612-7664 850Band CH188
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL 223+notch
Freq: 973.371MHz, Pmax: -48.64dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

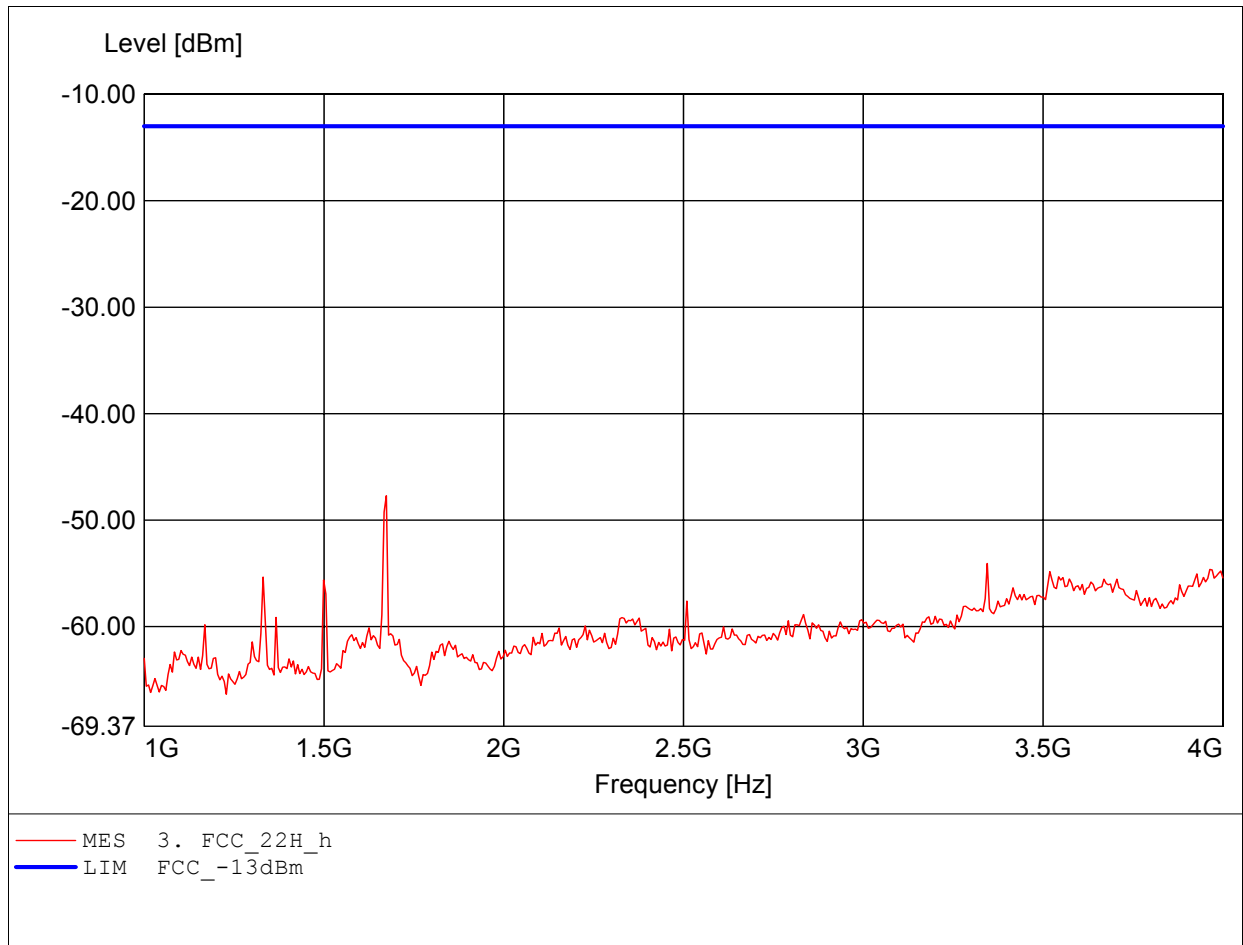
Order Number : W6M20612-7664 850Band CH188
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL 223+notch
Freq: 878.655MHz, Pmax: -48.73dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

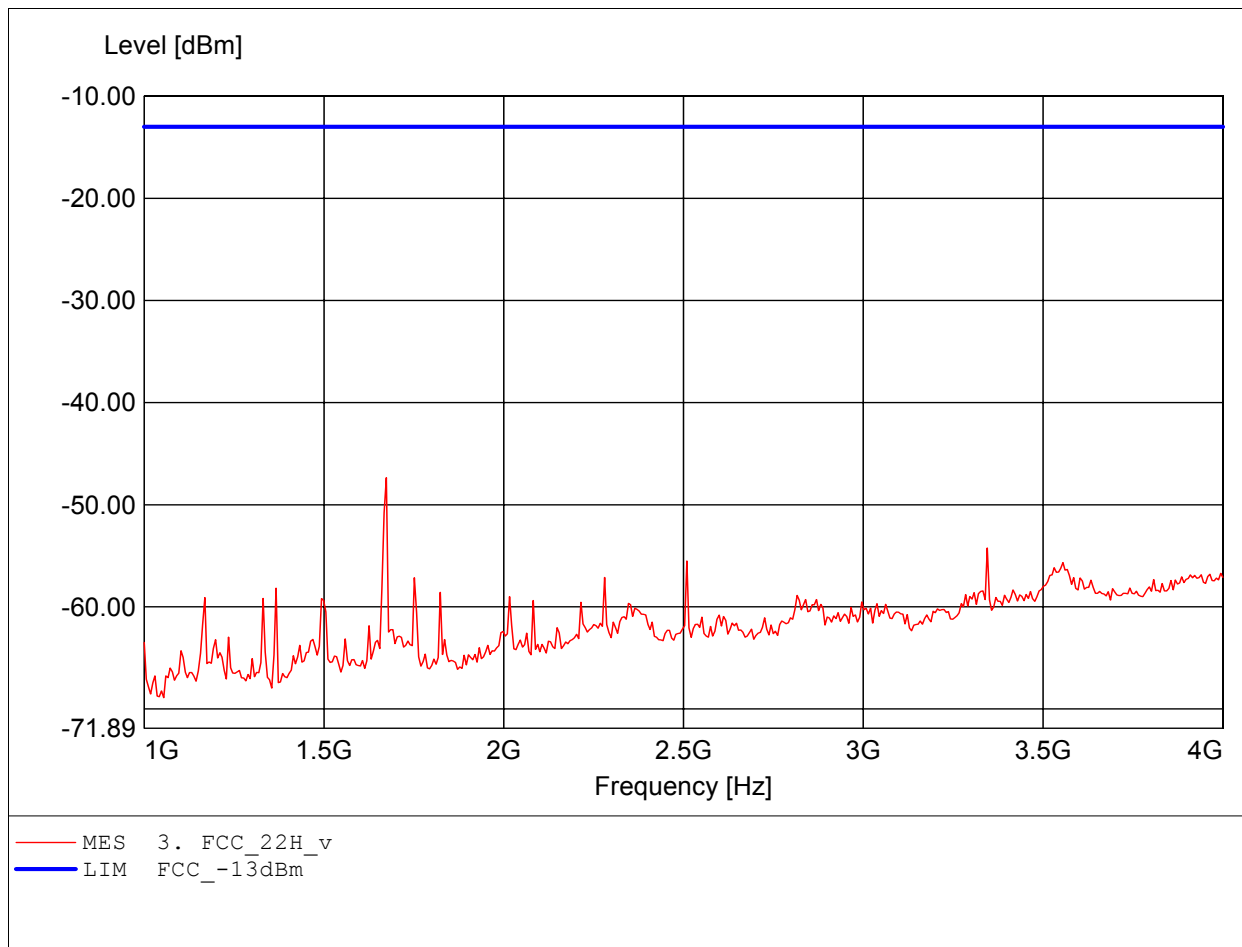
Order Number : W6M20612-7664 850Band CH188
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 1.673GHz, Pmax: -47.71dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

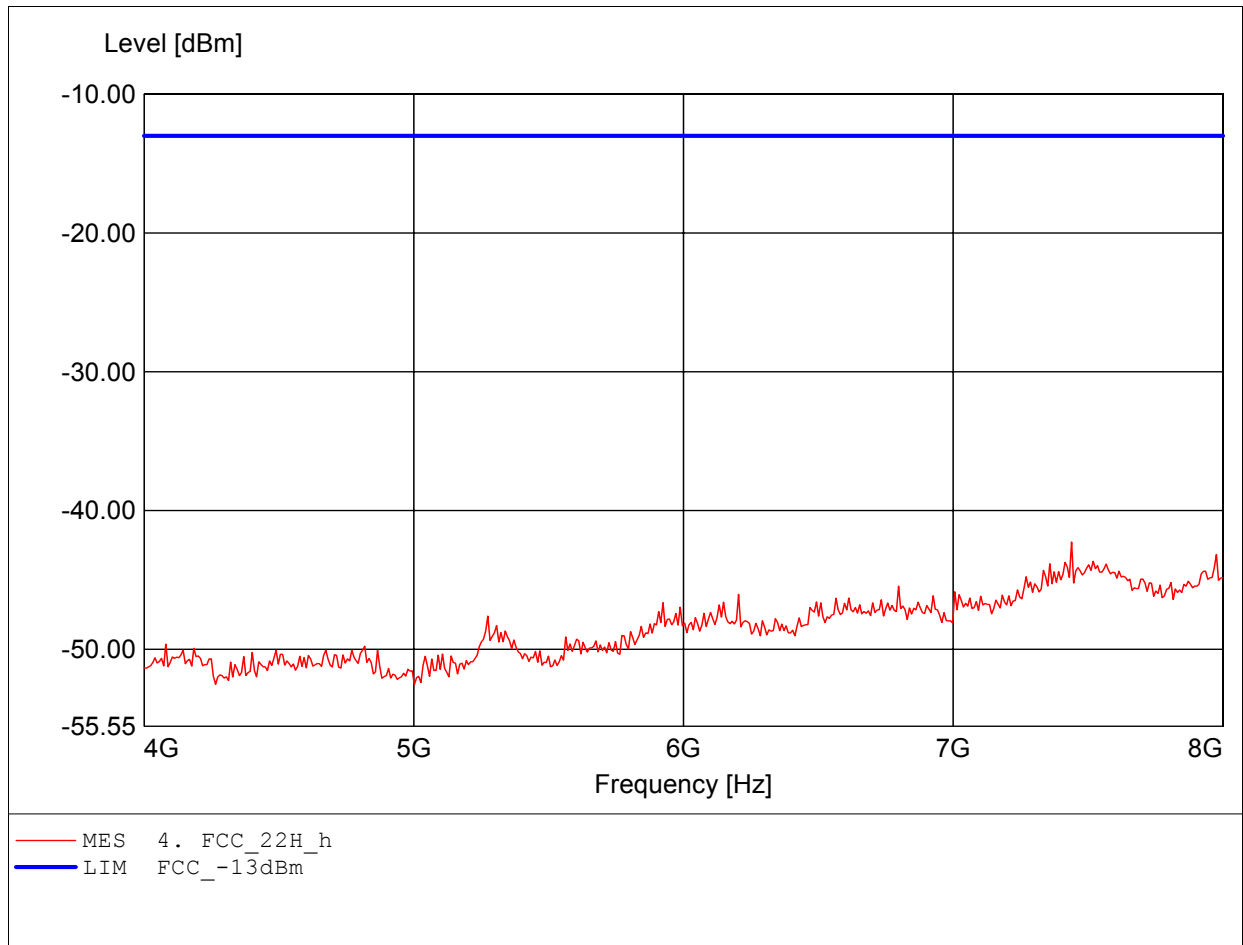
Order Number : W6M20612-7664 850Band CH188
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 1.673GHz, Pmax: -47.36dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

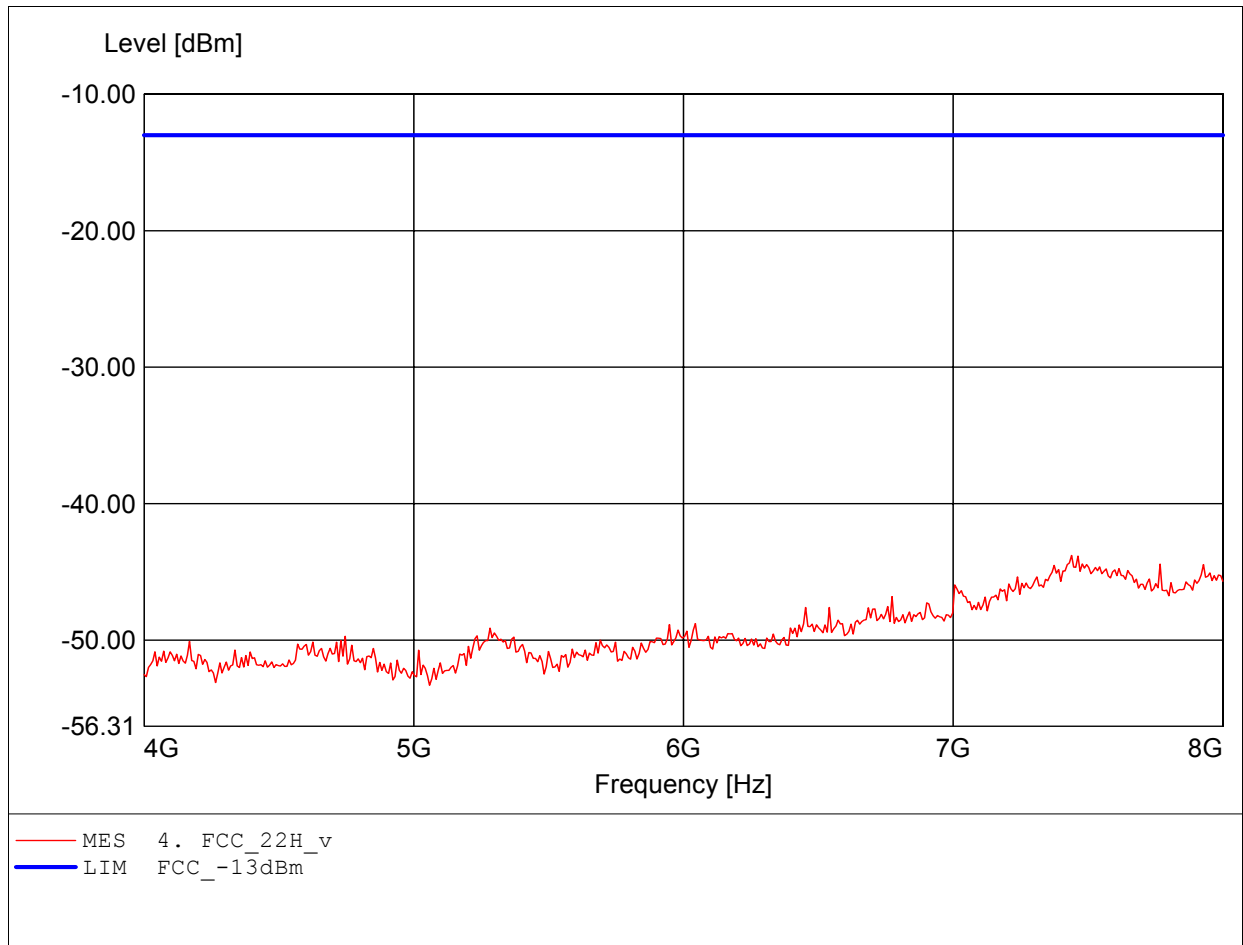
Order Number : W6M20612-7664 850Band CH188
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.439GHz, Pmax: -42.27dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

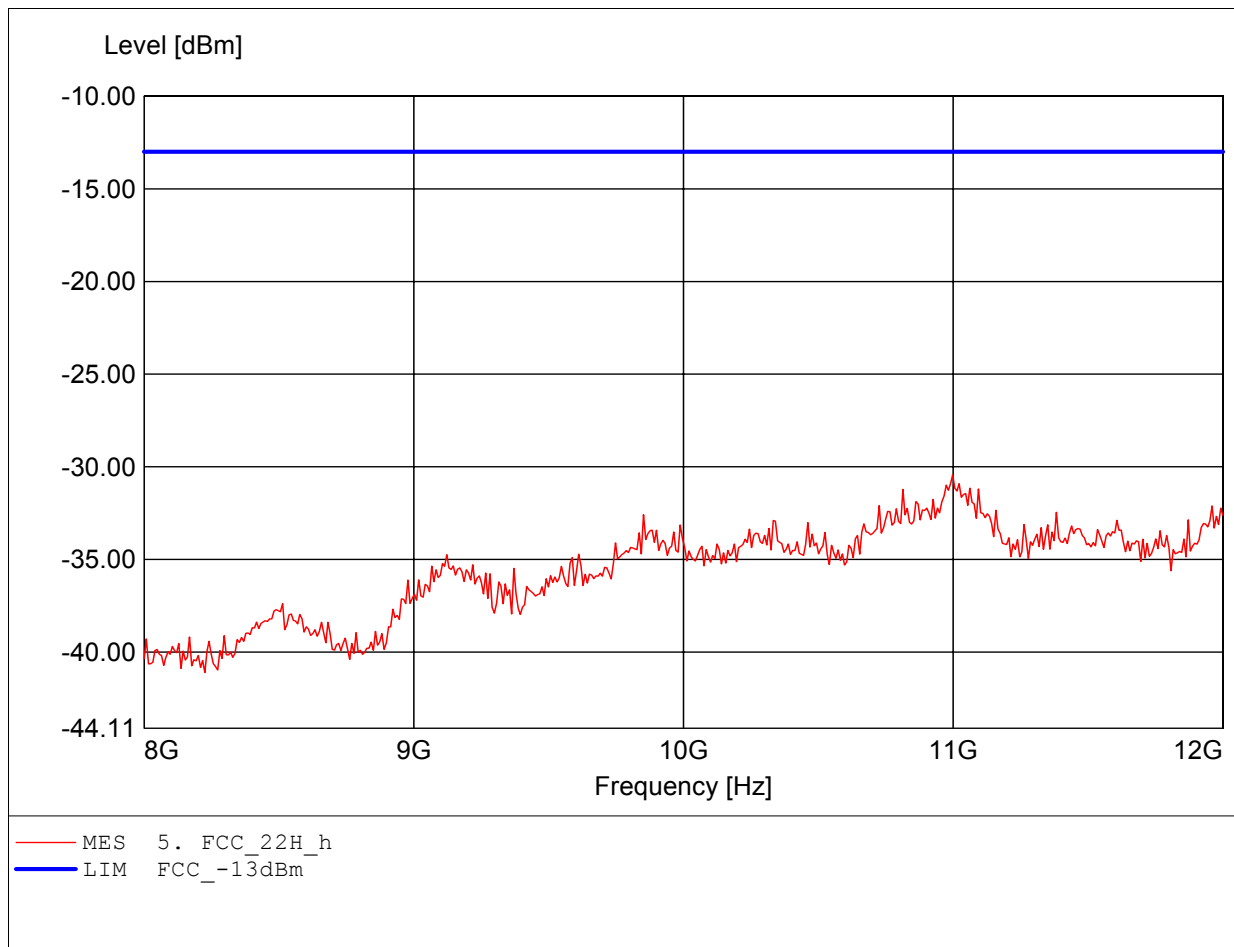
Order Number : W6M20612-7664 850Band CH188
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.439GHz, Pmax: -43.79dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

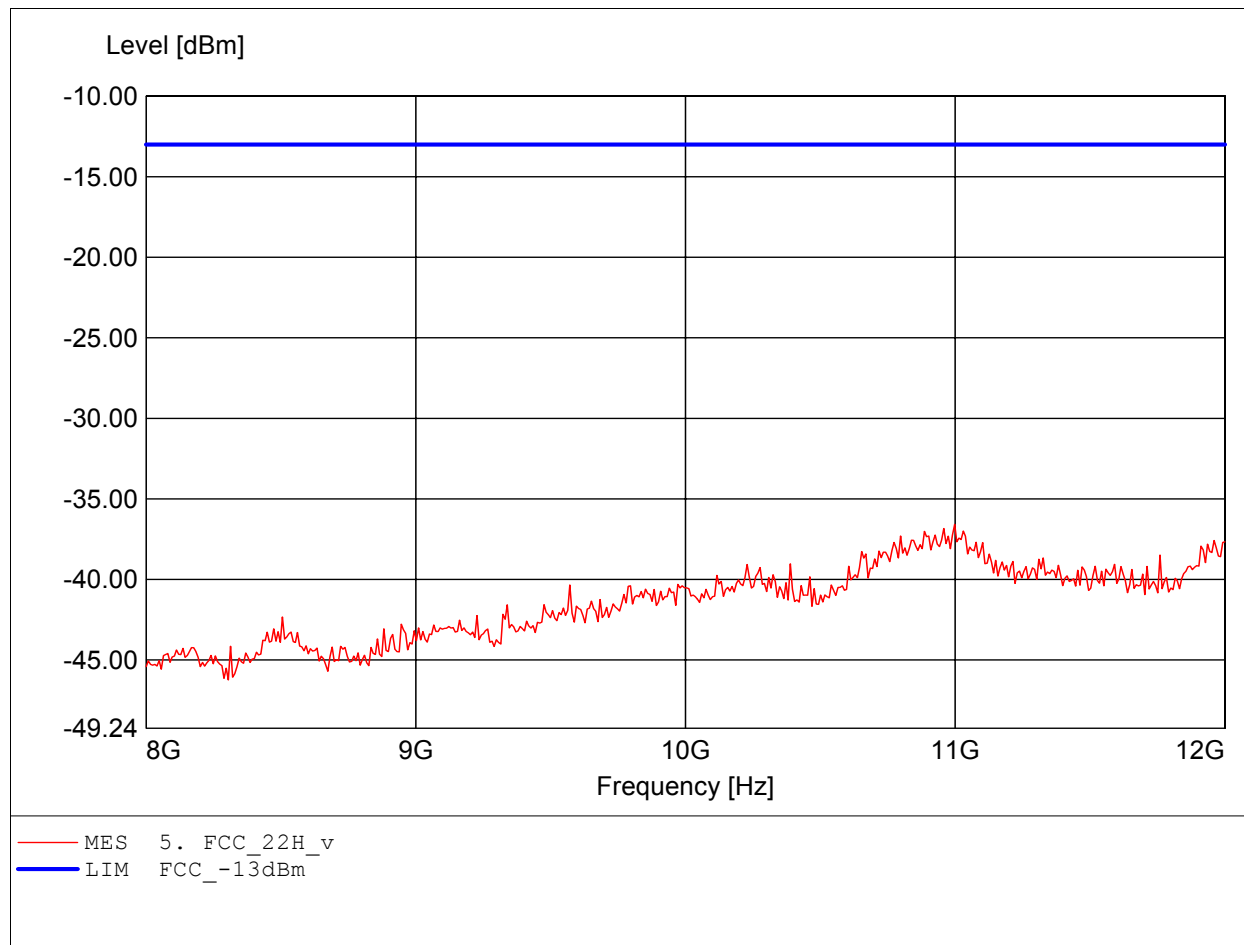
Order Number : W6M20612-7664 850Band CH188
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 10.998GHz, Pmax: -30.43dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

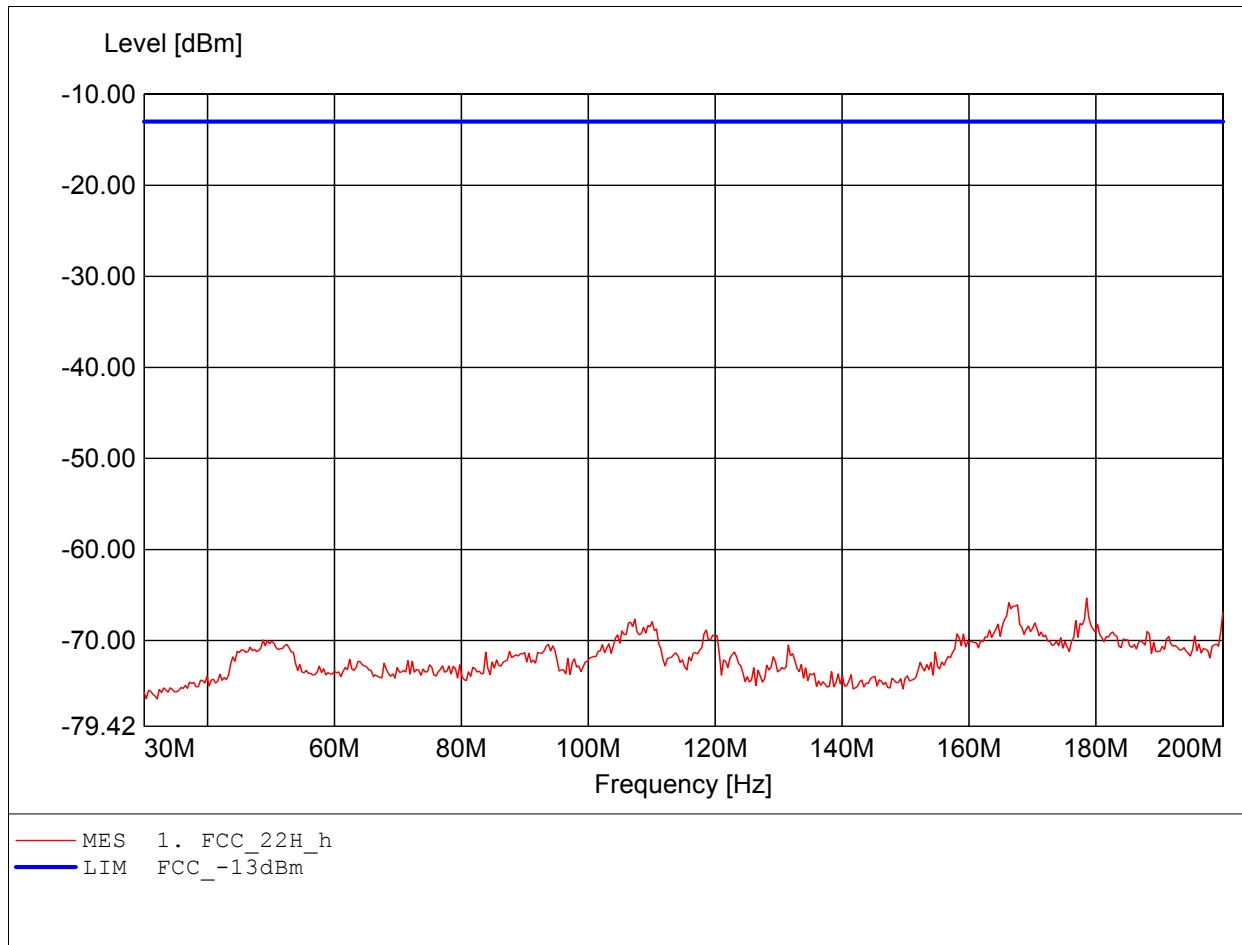
Order Number : W6M20612-7664 850Band CH188
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 10.998GHz, Pmax: -36.58dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

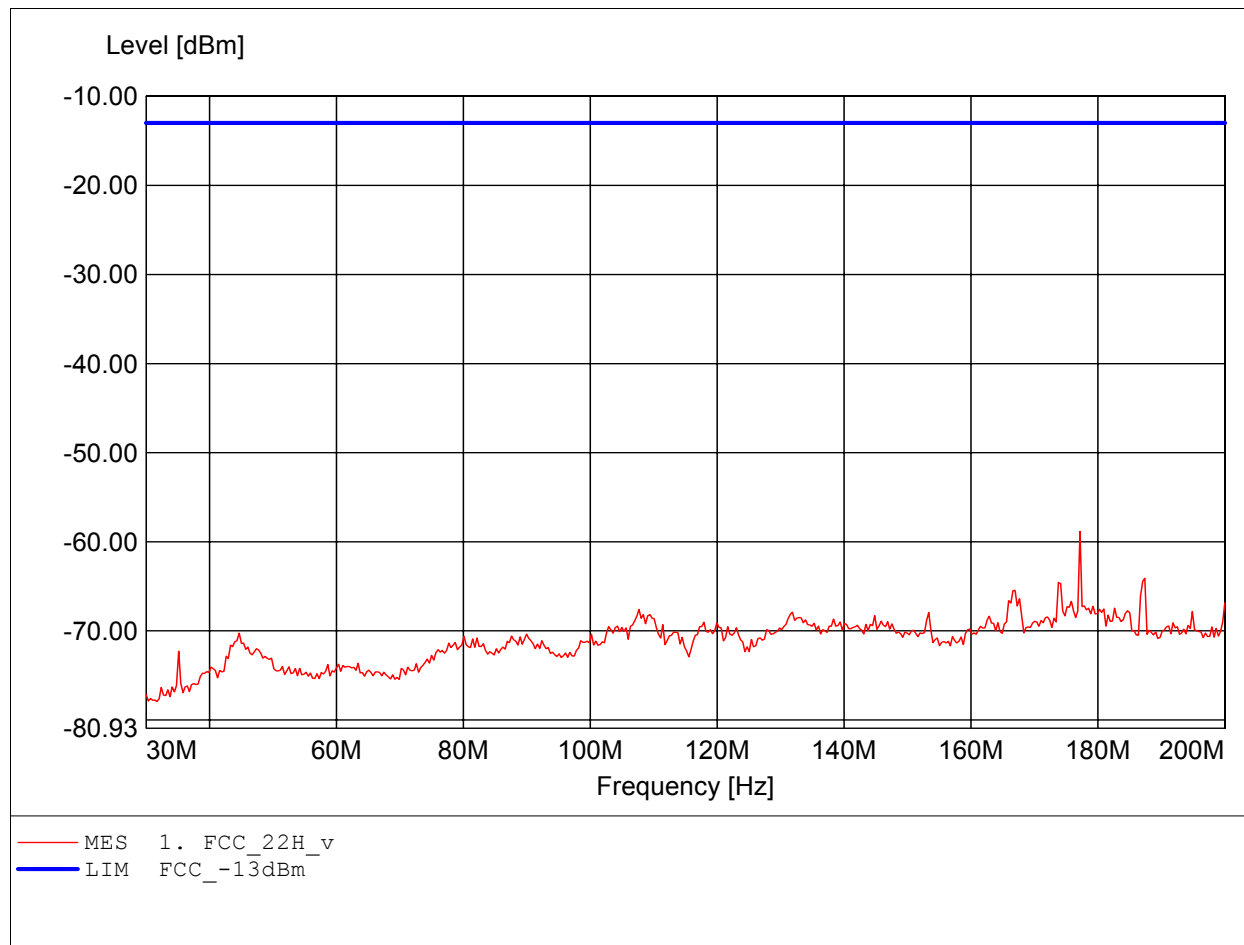
Order Number : W6M20612-7664 850Band CH251
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 178.537MHz, Pmax: -65.34dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

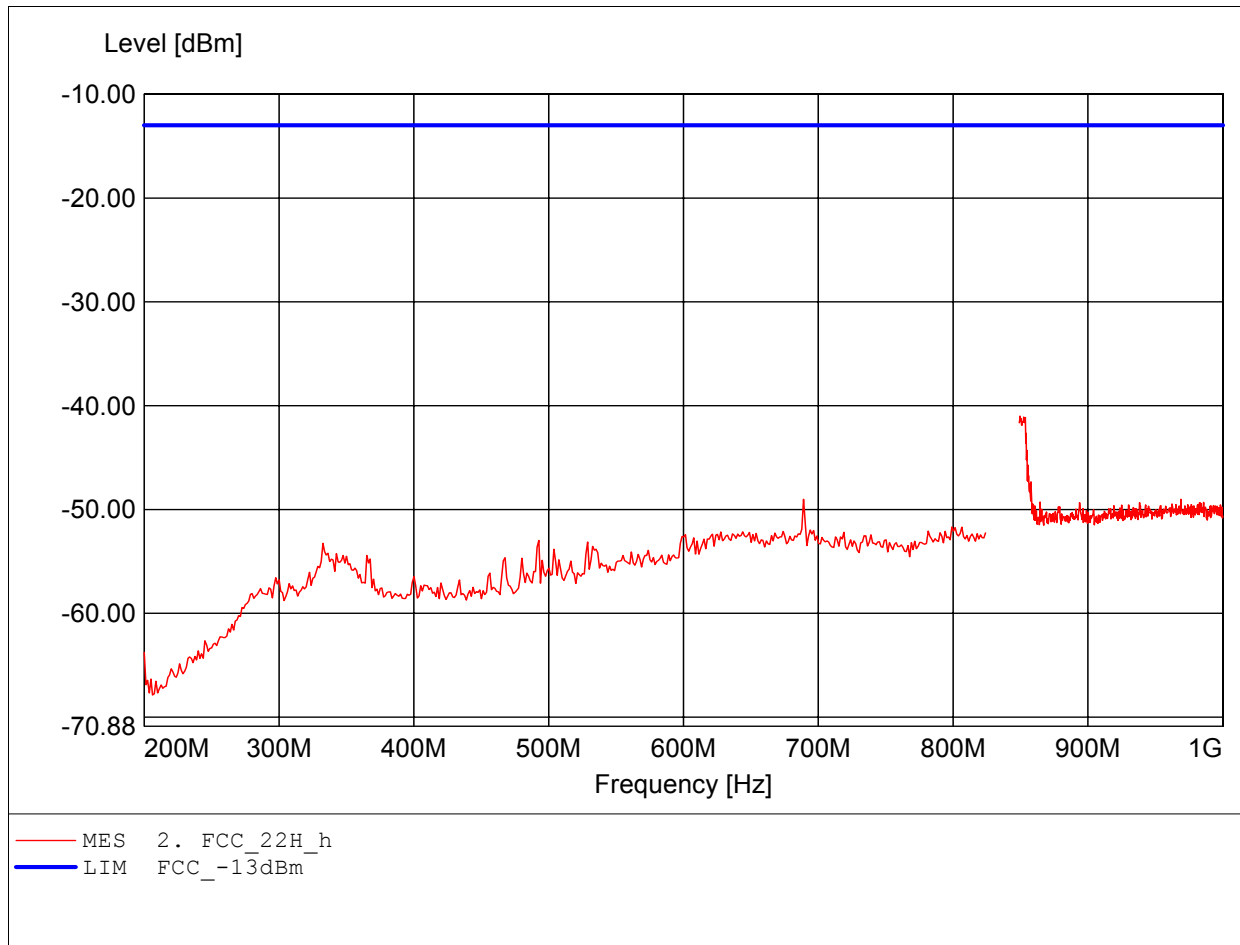
Order Number : W6M20612-7664 850Band CH251
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 177.174MHz, Pmax: -58.85dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

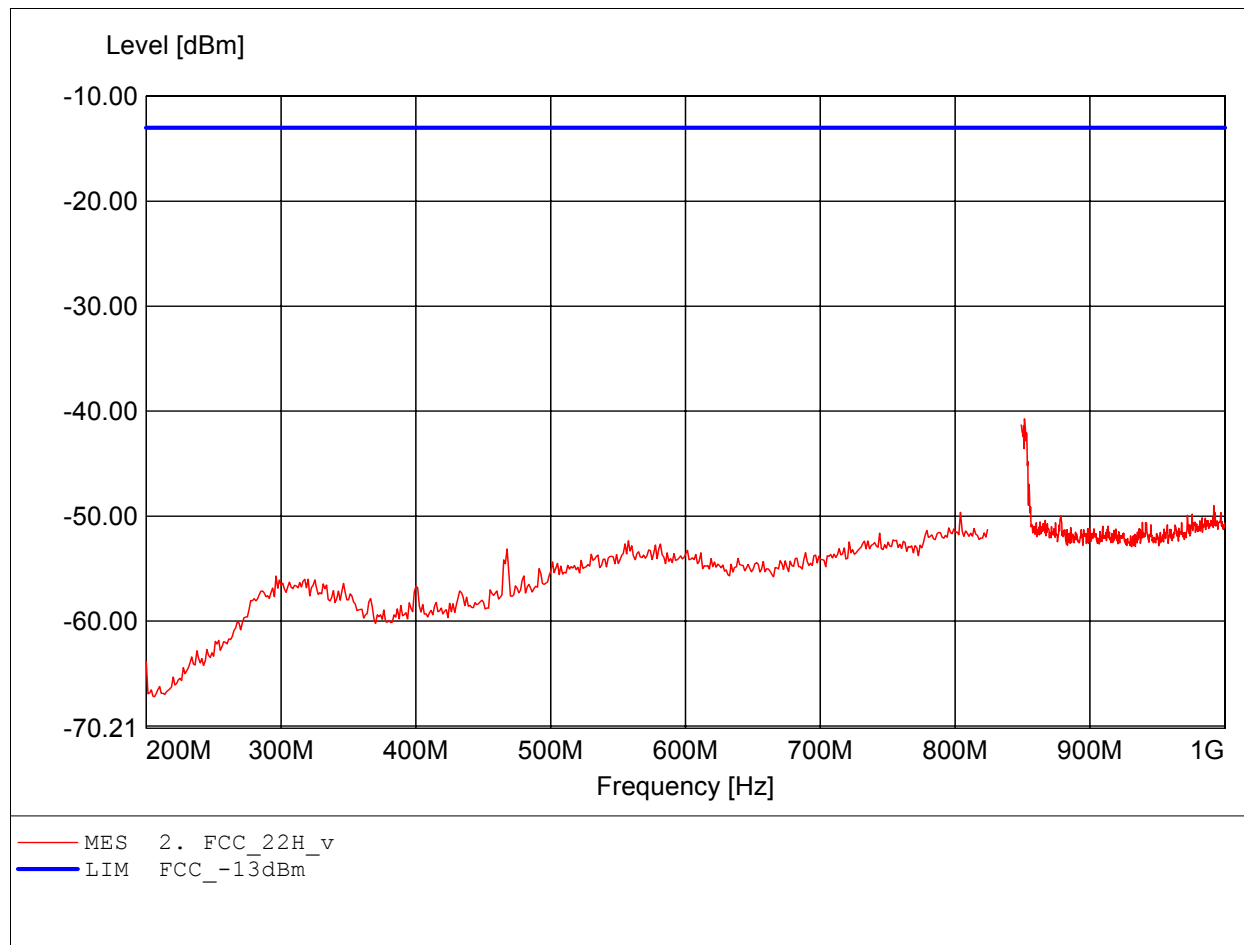
Order Number : W6M20612-7664 850Band CH251
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL 223+notch
Freq: 849.605MHz, Pmax: -41.65dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

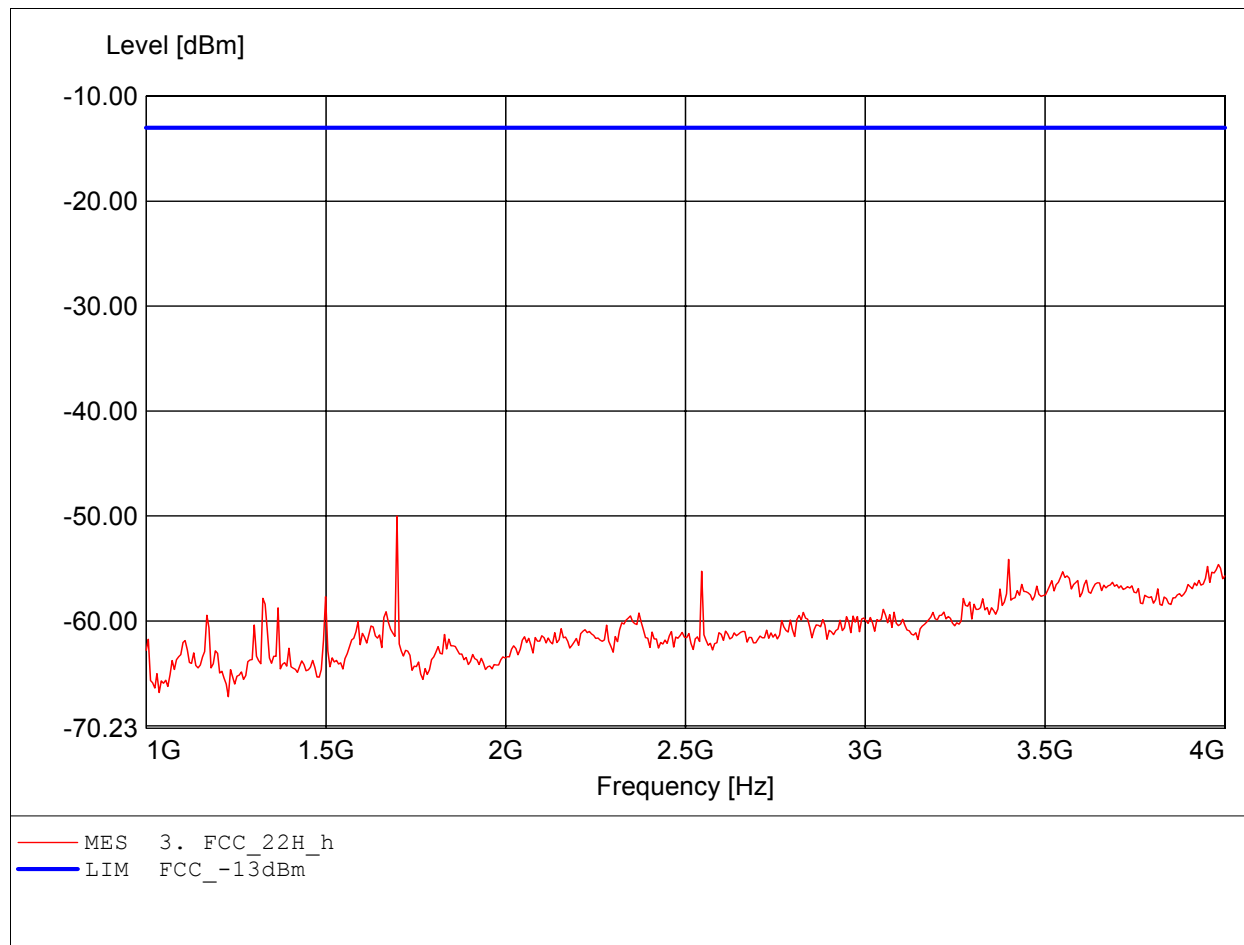
Order Number : W6M20612-7664 850Band CH251
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL 223+notch
Freq: 851.420MHz, Pmax: -40.74dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

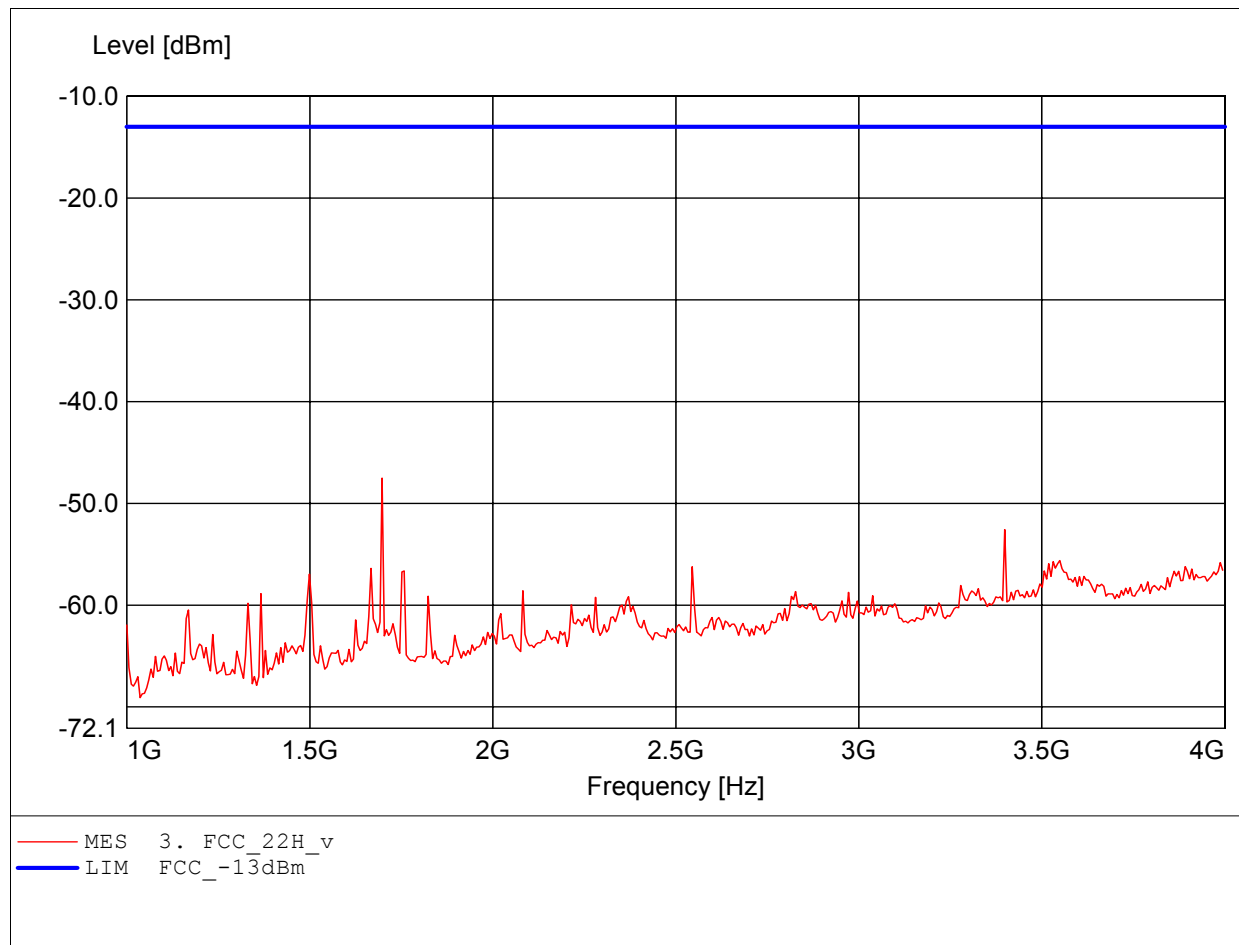
Order Number : W6M20612-7664 850Band CH251
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 1.697GHz, Pmax: -50.00dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

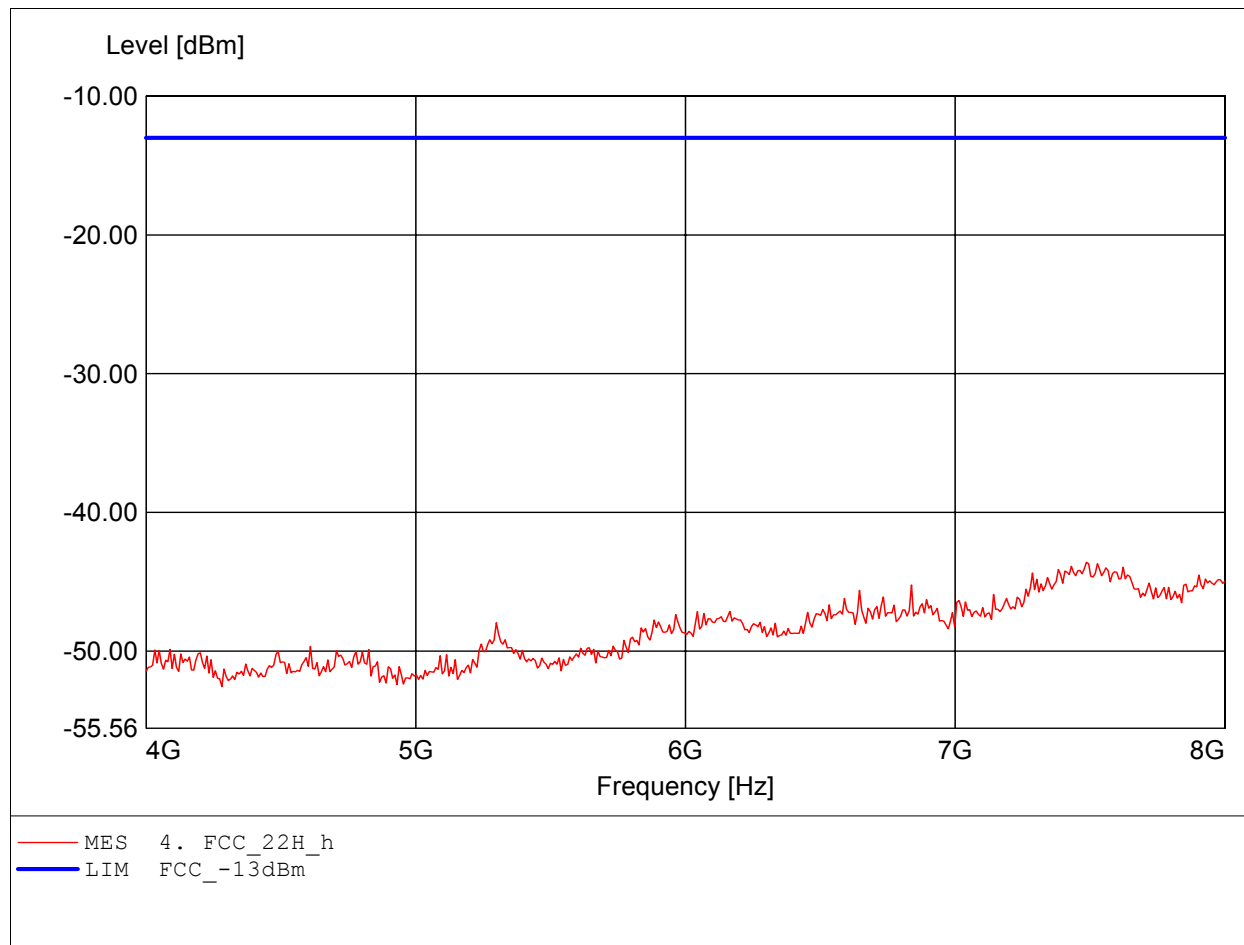
Order Number : W6M20612-7664 850Band CH251
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 1.697GHz, Pmax: -47.51dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

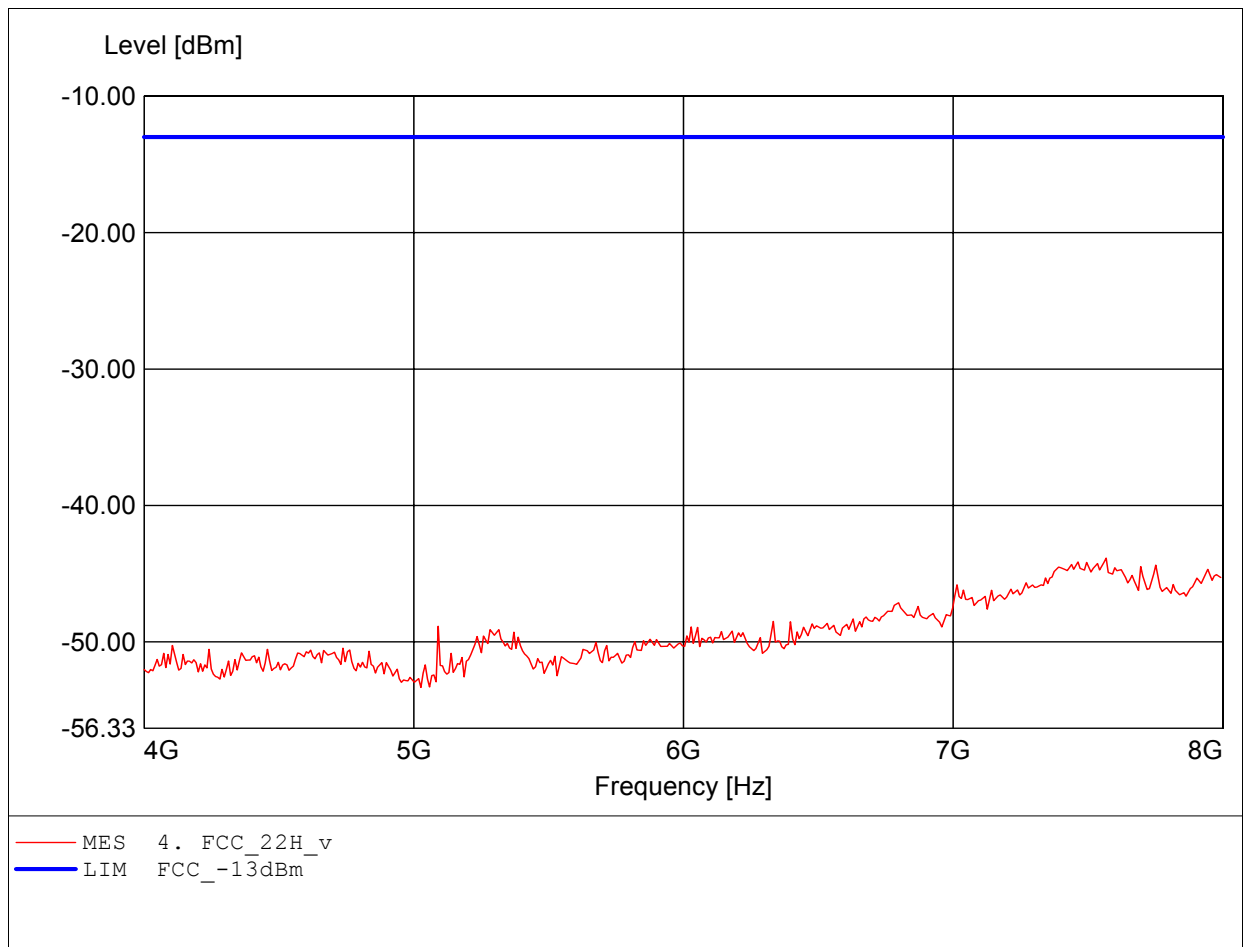
Order Number : W6M20612-7664 850Band CH251
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.487GHz, Pmax: -43.60dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

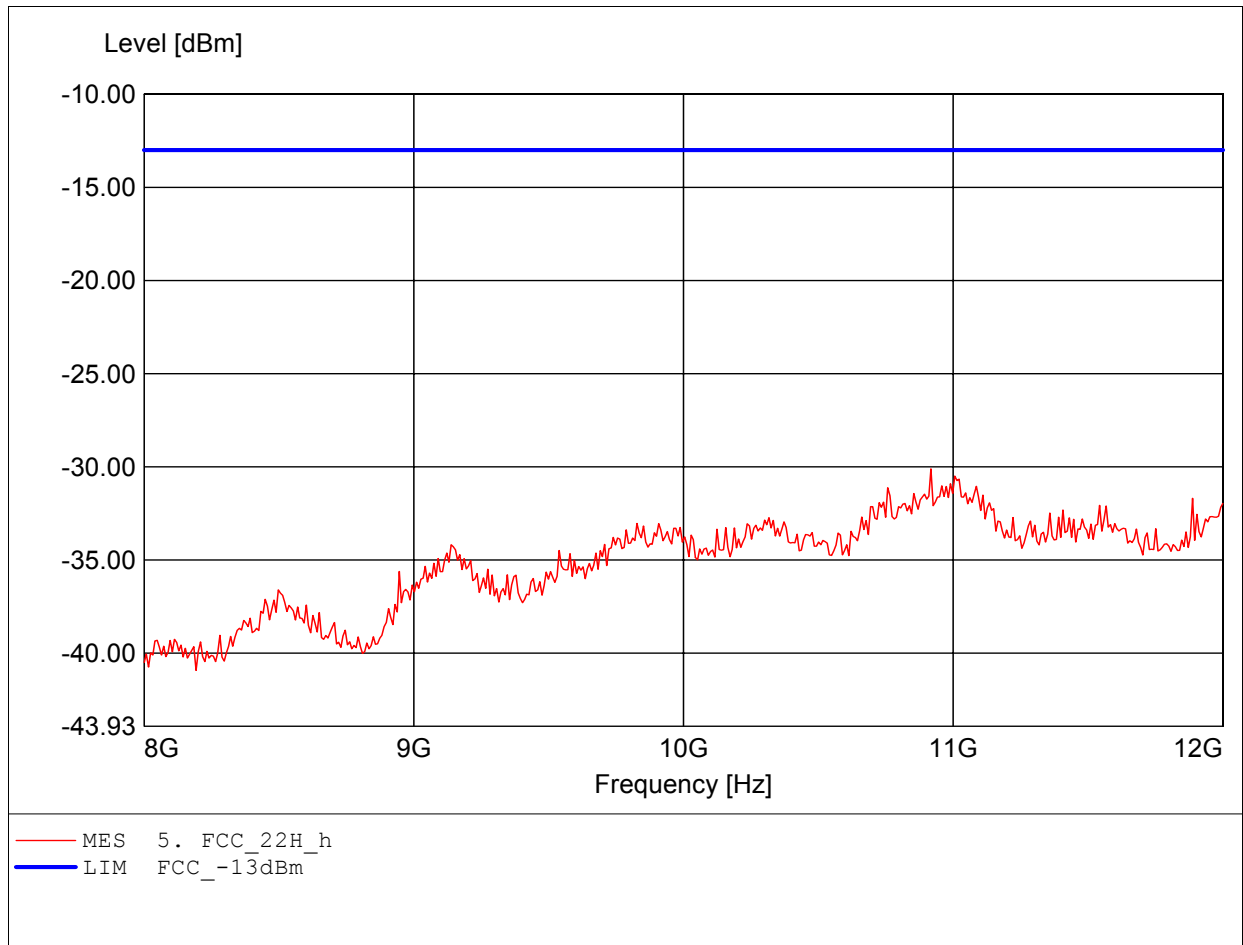
Order Number : W6M20612-7664 850Band CH251
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.567GHz, Pmax: -43.86dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

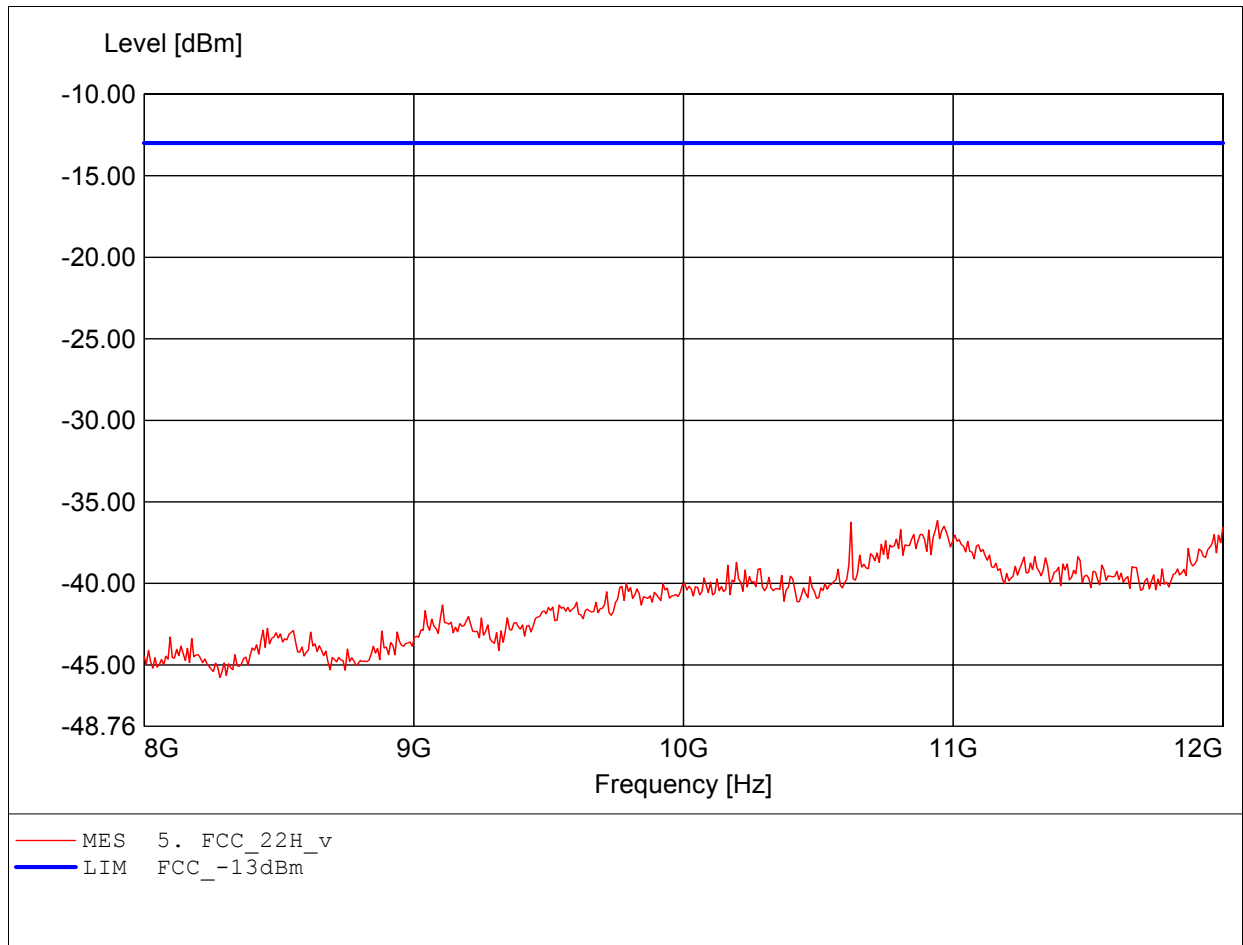
Order Number : W6M20612-7664 850Band CH251
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 10.918GHz, Pmax: -30.11dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 22 SUBPART H

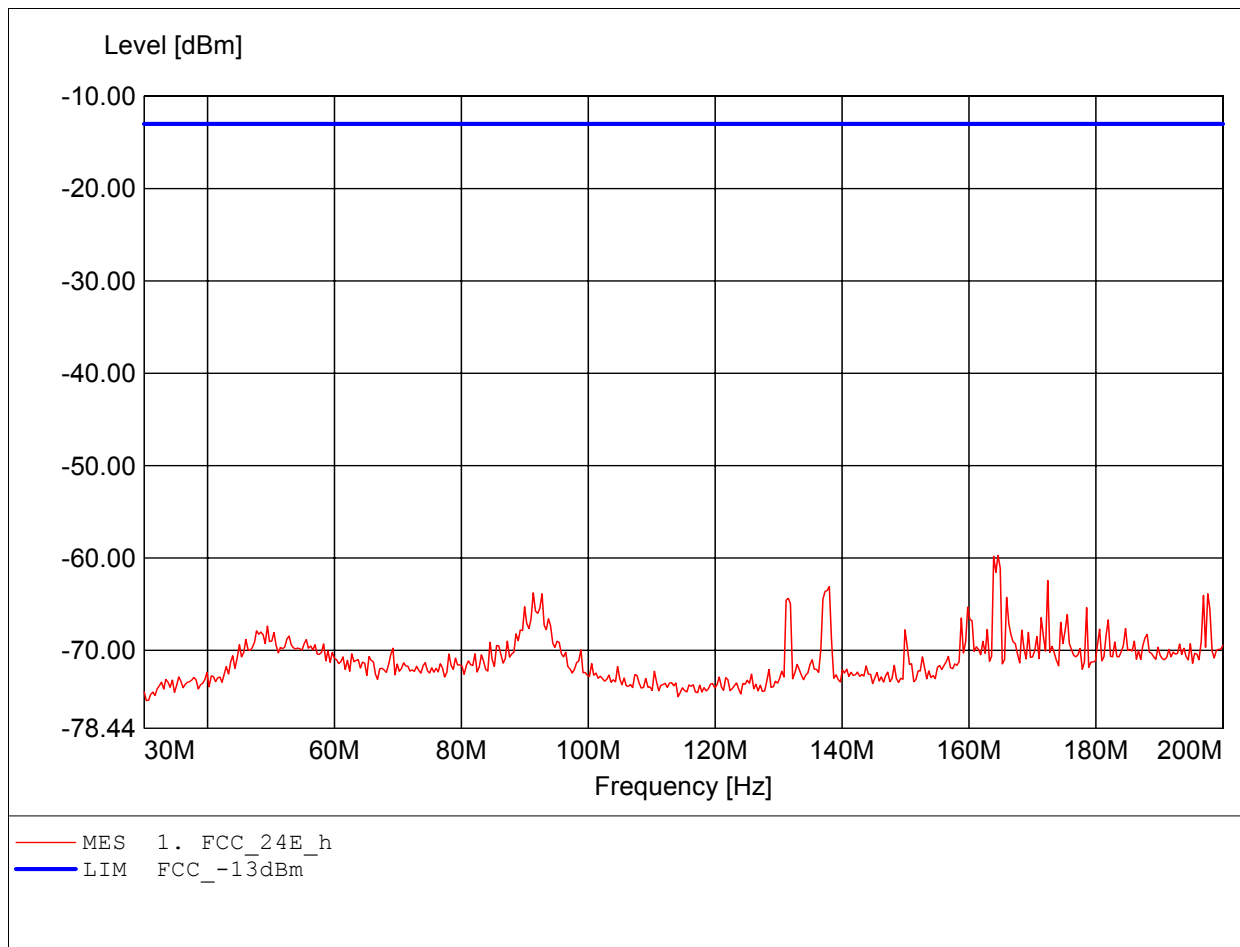
Order Number : W6M20612-7664 850Band CH251
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 10.942GHz, Pmax: -36.15dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

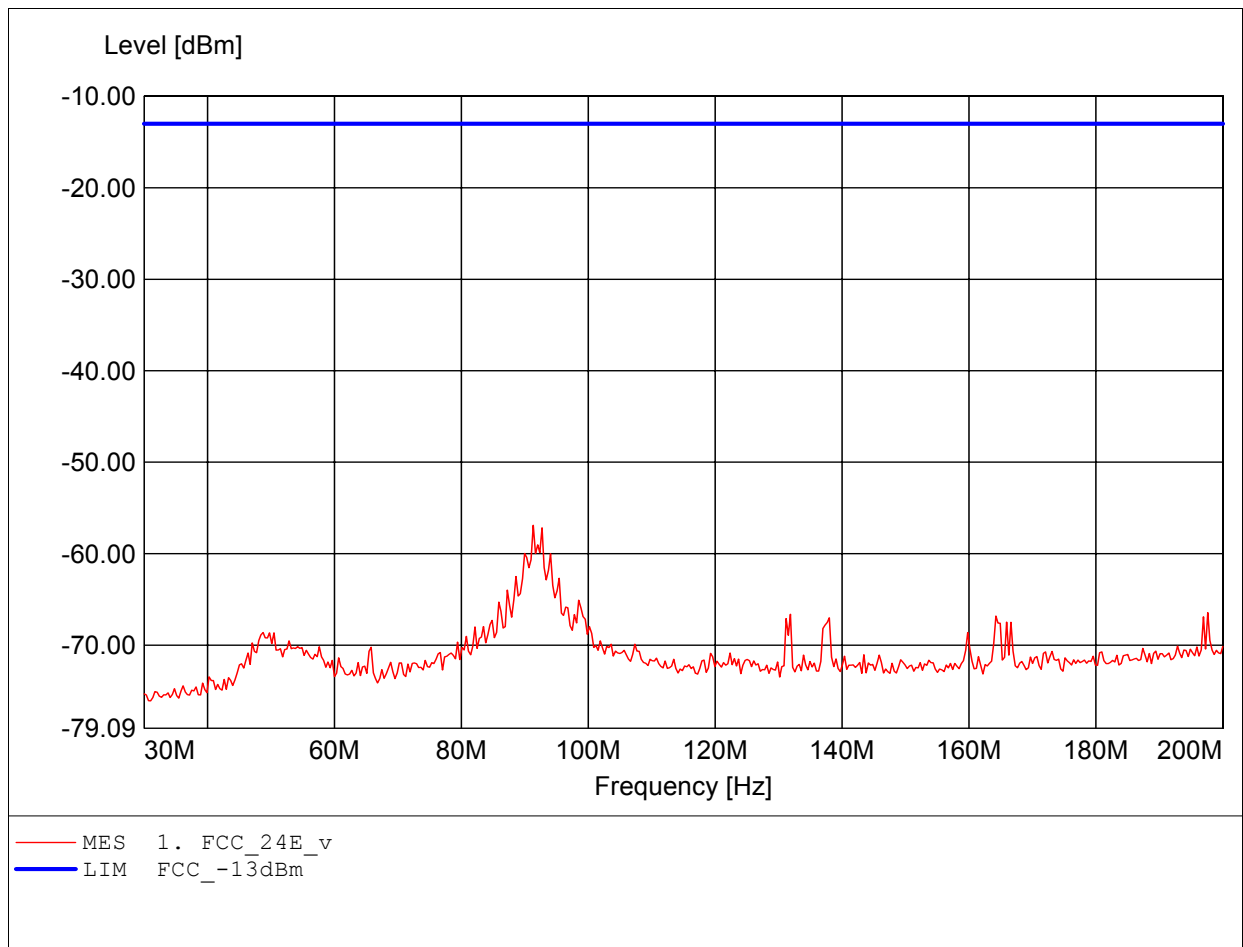
Order Number : W6M20612-7664 1900 band ch512
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 164.569MHz, Pmax: -59.73dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

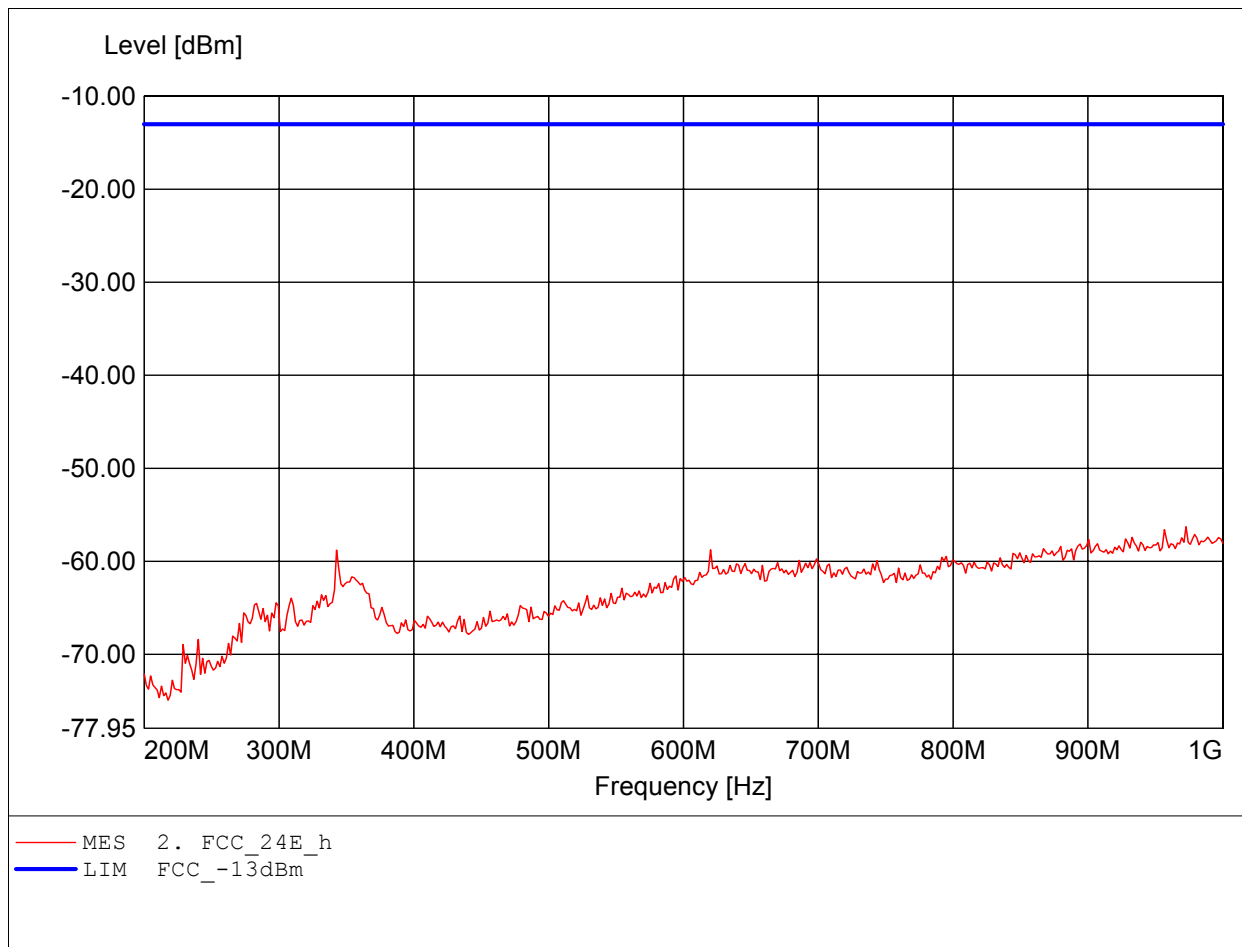
Order Number : W6M20612-7664 1900 band ch512
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 91.323MHz, Pmax: -56.90dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

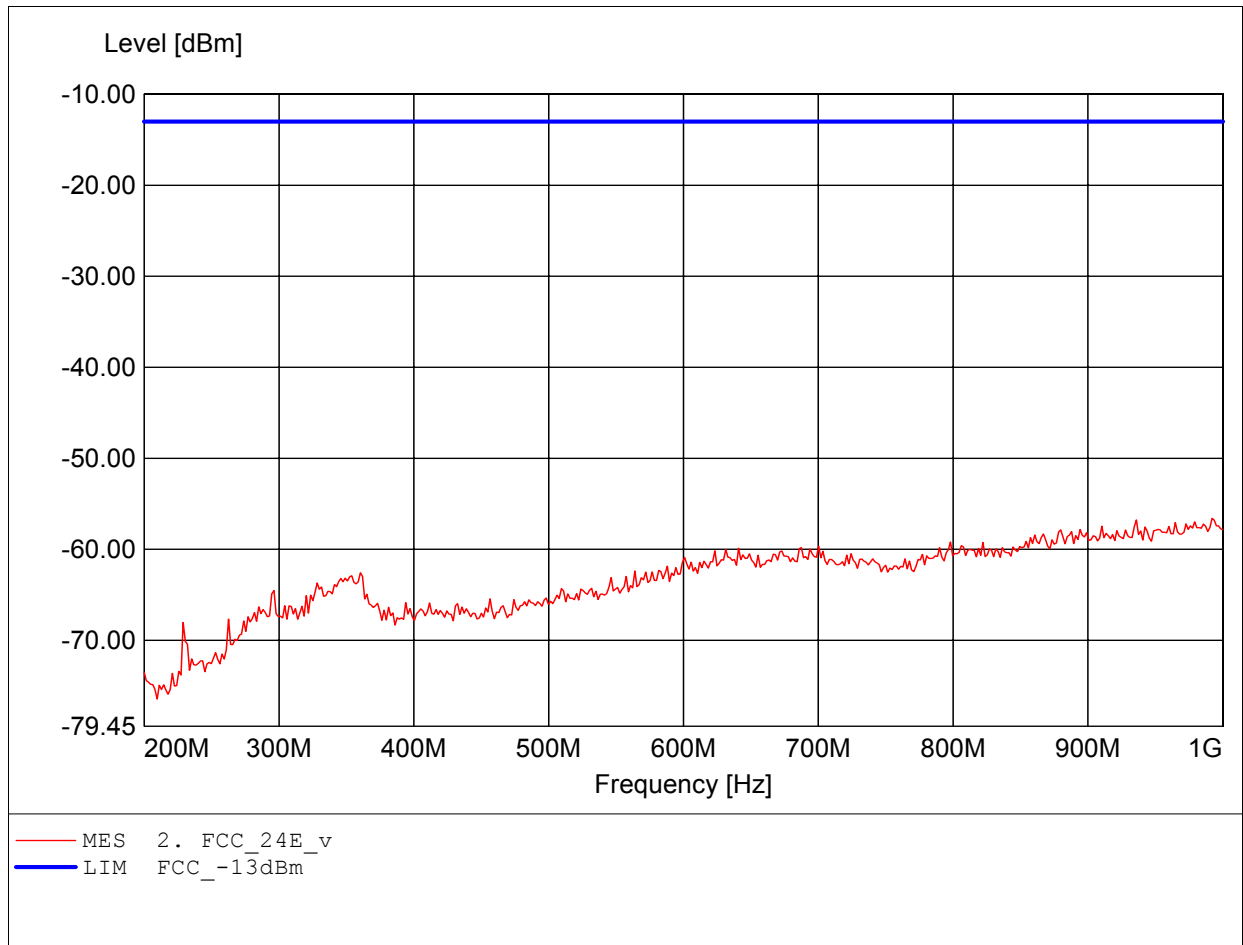
Order Number : W6M20612-7664 1900 band ch512
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL 223
Freq: 972.745MHz, Pmax: -56.28dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

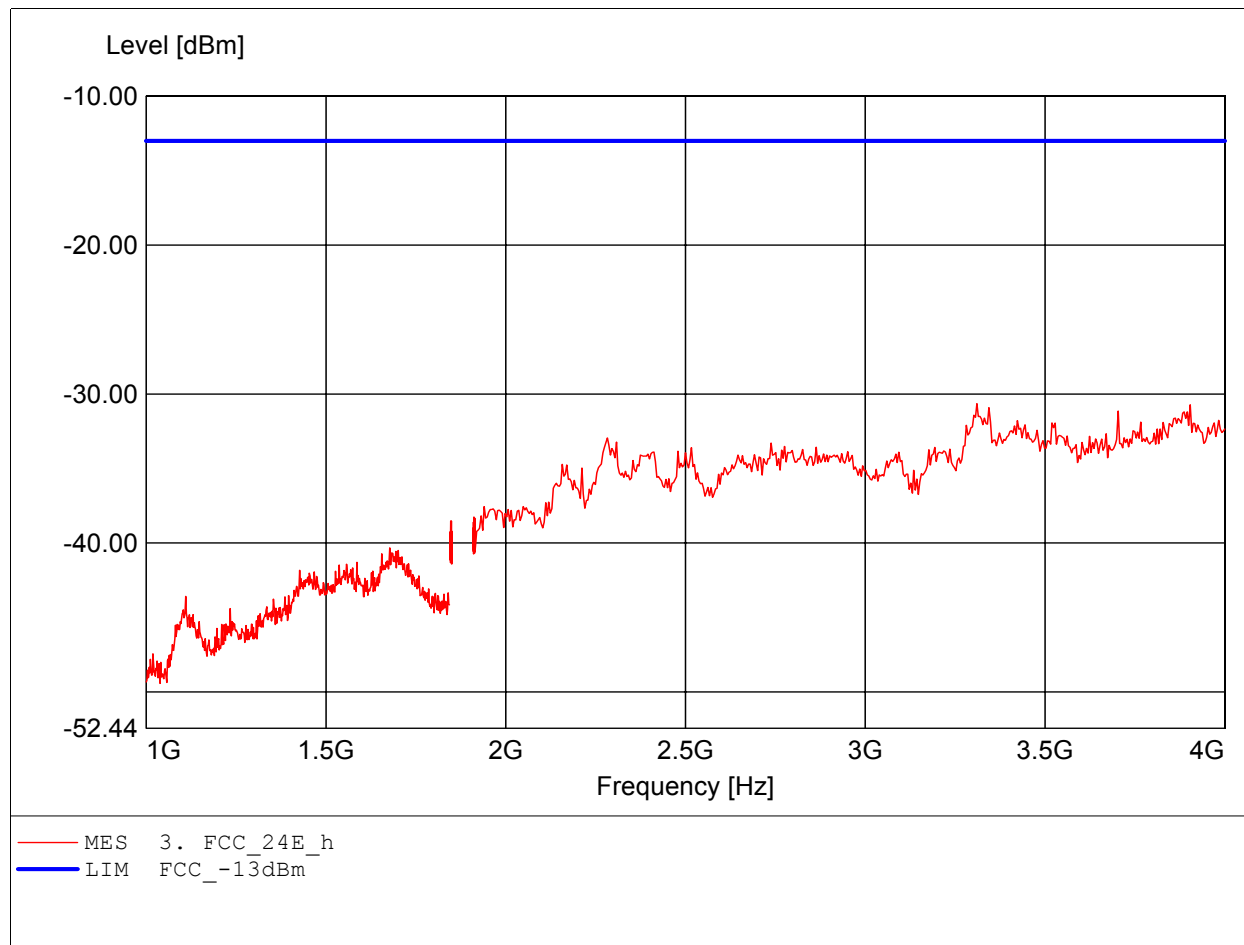
Order Number : W6M20612-7664 1900 band ch512
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL 223
Freq: 991.984MHz, Pmax: -56.59dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

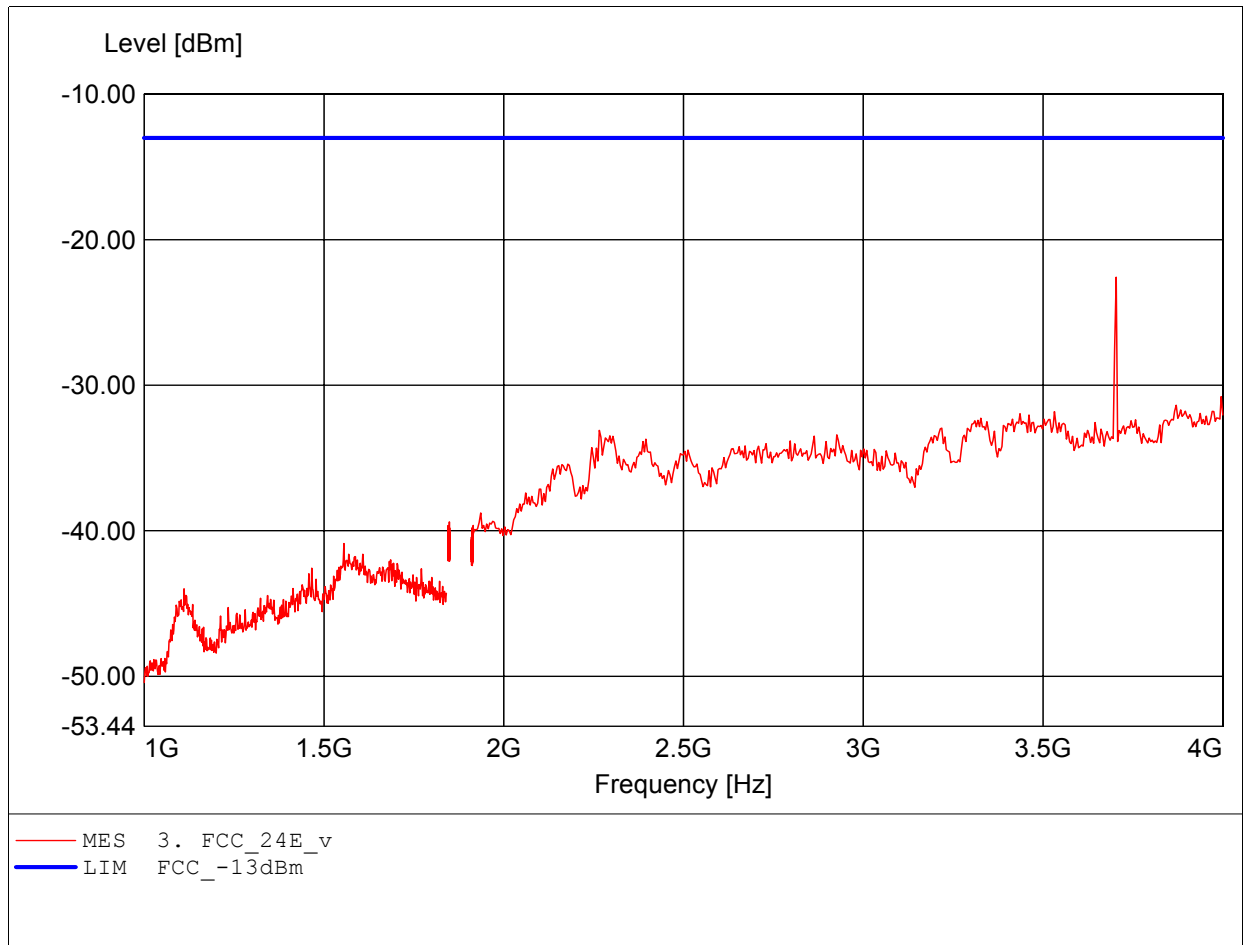
Order Number : W6M20612-7664 1900 band ch512
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 3.311GHz, Pmax: -30.65dBm, RBW: 1MHz/3kHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

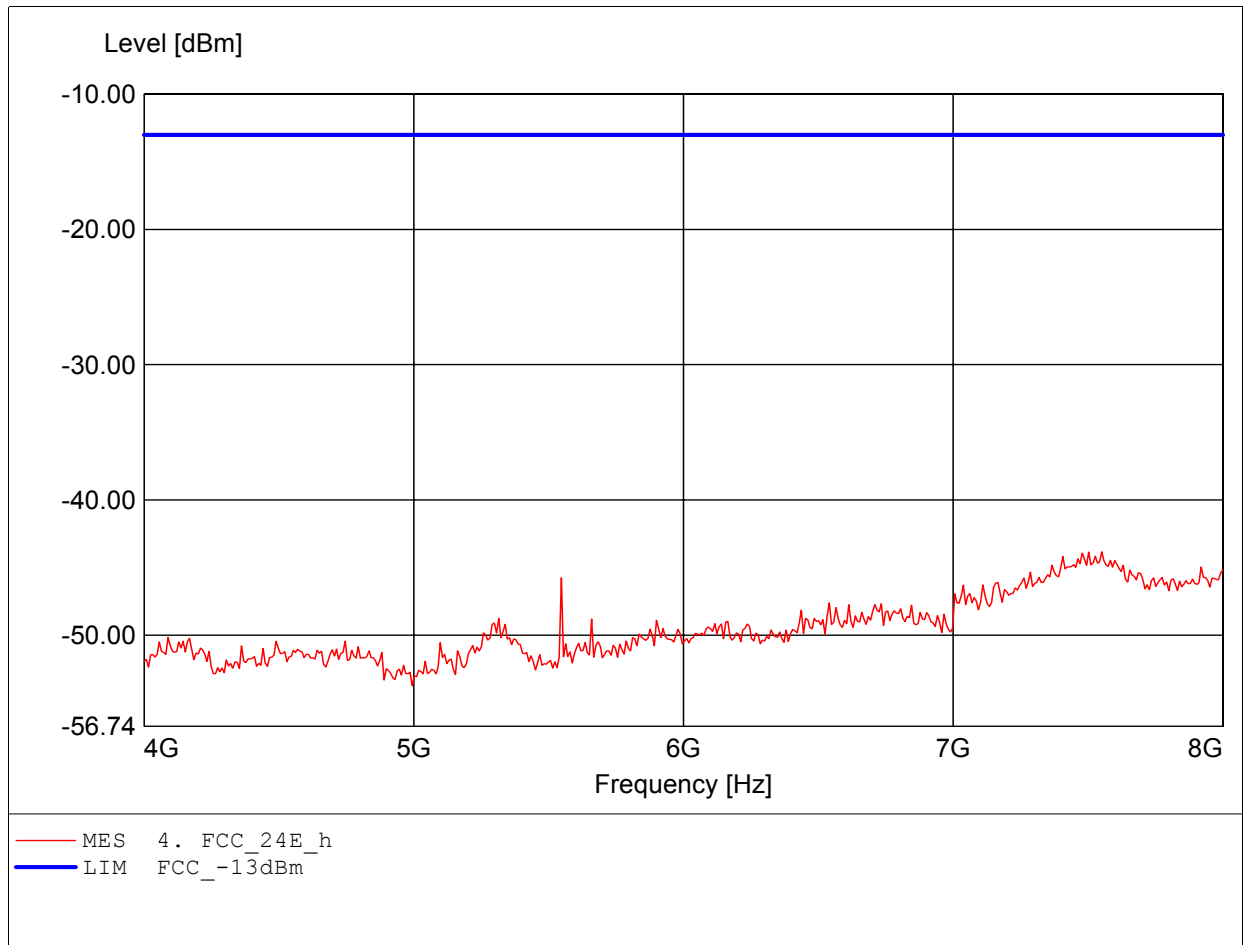
Order Number : W6M20612-7664 1900 band ch512
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 3.703GHz, Pmax: -22.57dBm, RBW: 1MHz/3kHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

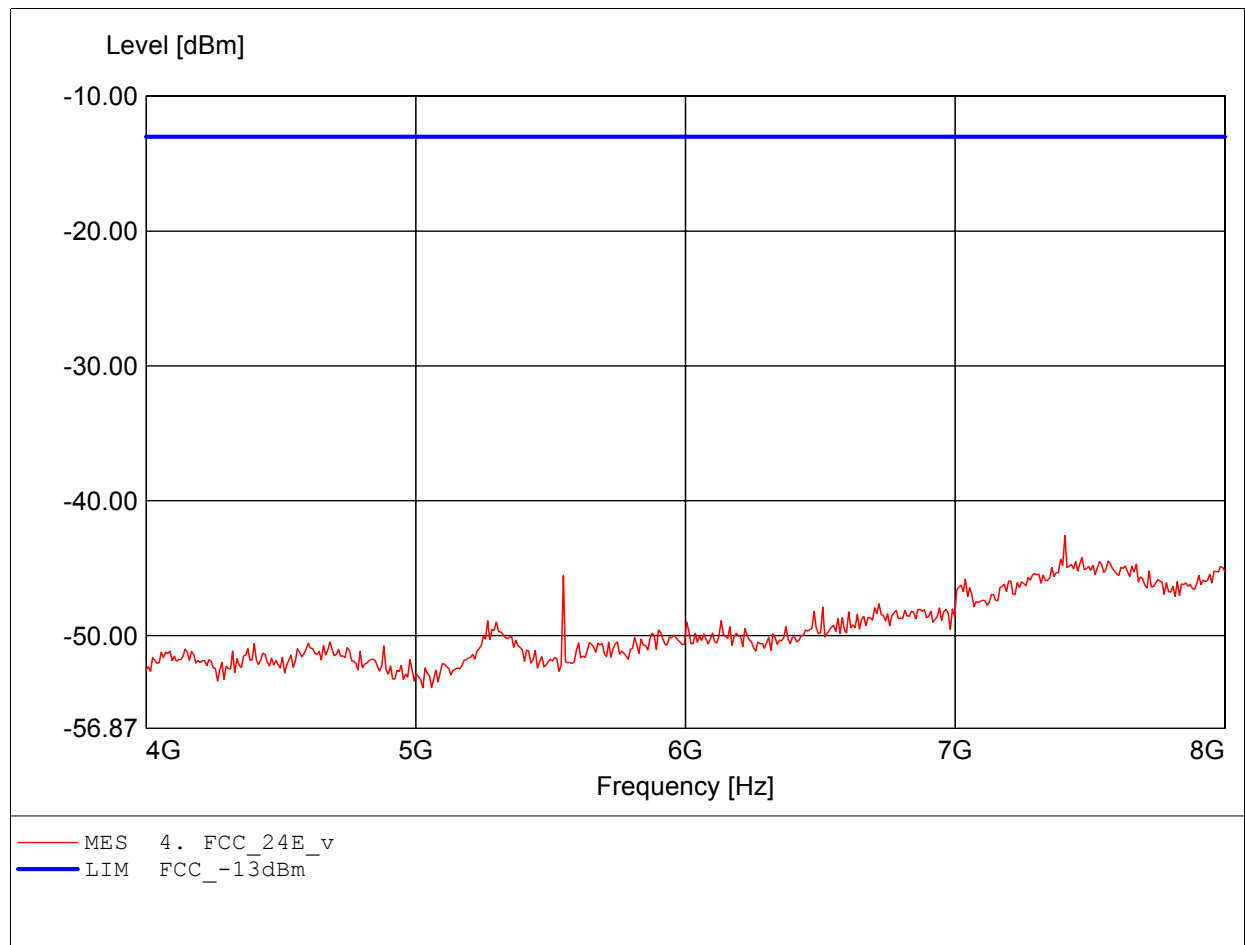
Order Number : W6M20612-7664 1900 band ch512
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.551GHz, Pmax: -43.84dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

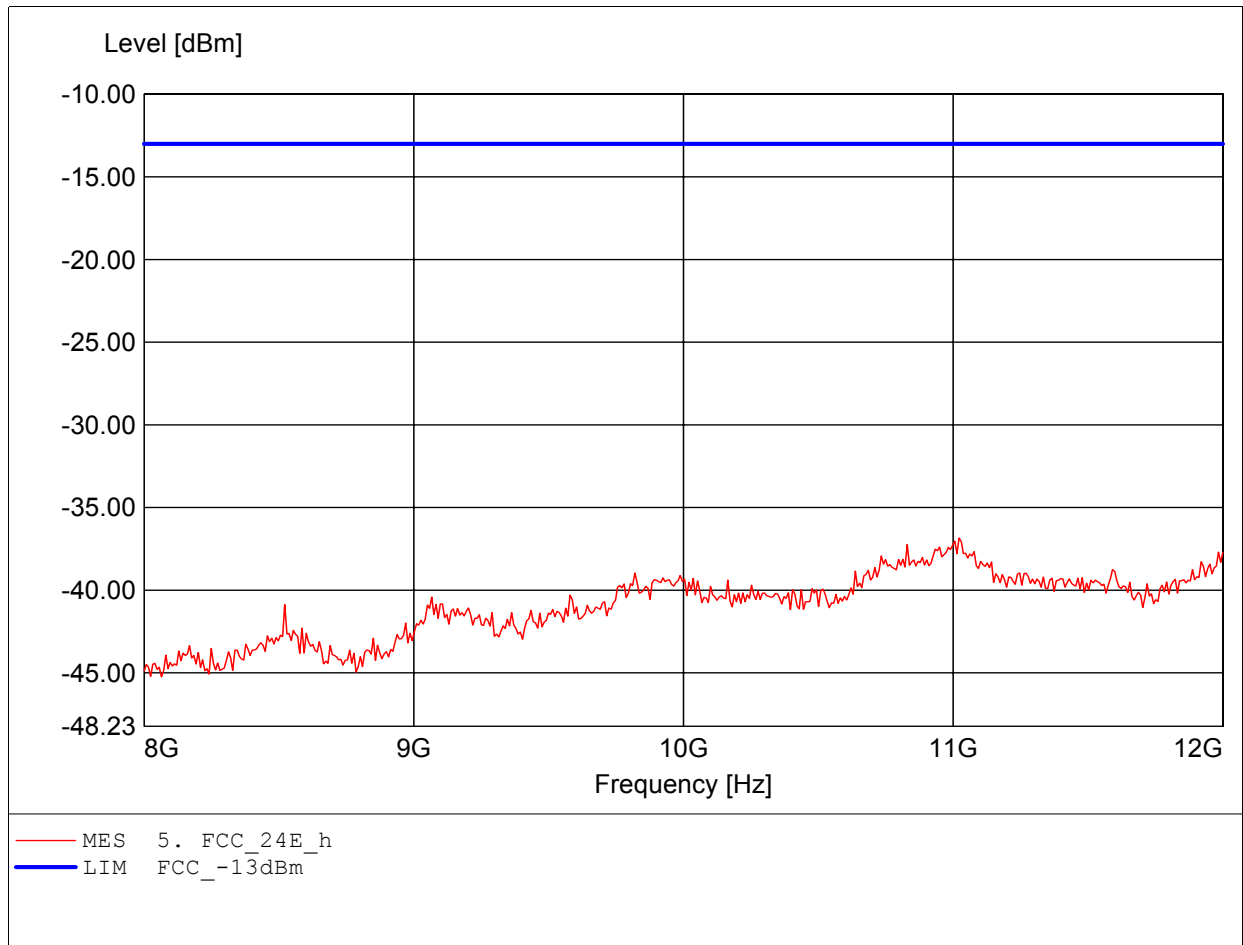
Order Number : W6M20612-7664 1900 band ch512
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.407GHz, Pmax: -42.58dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

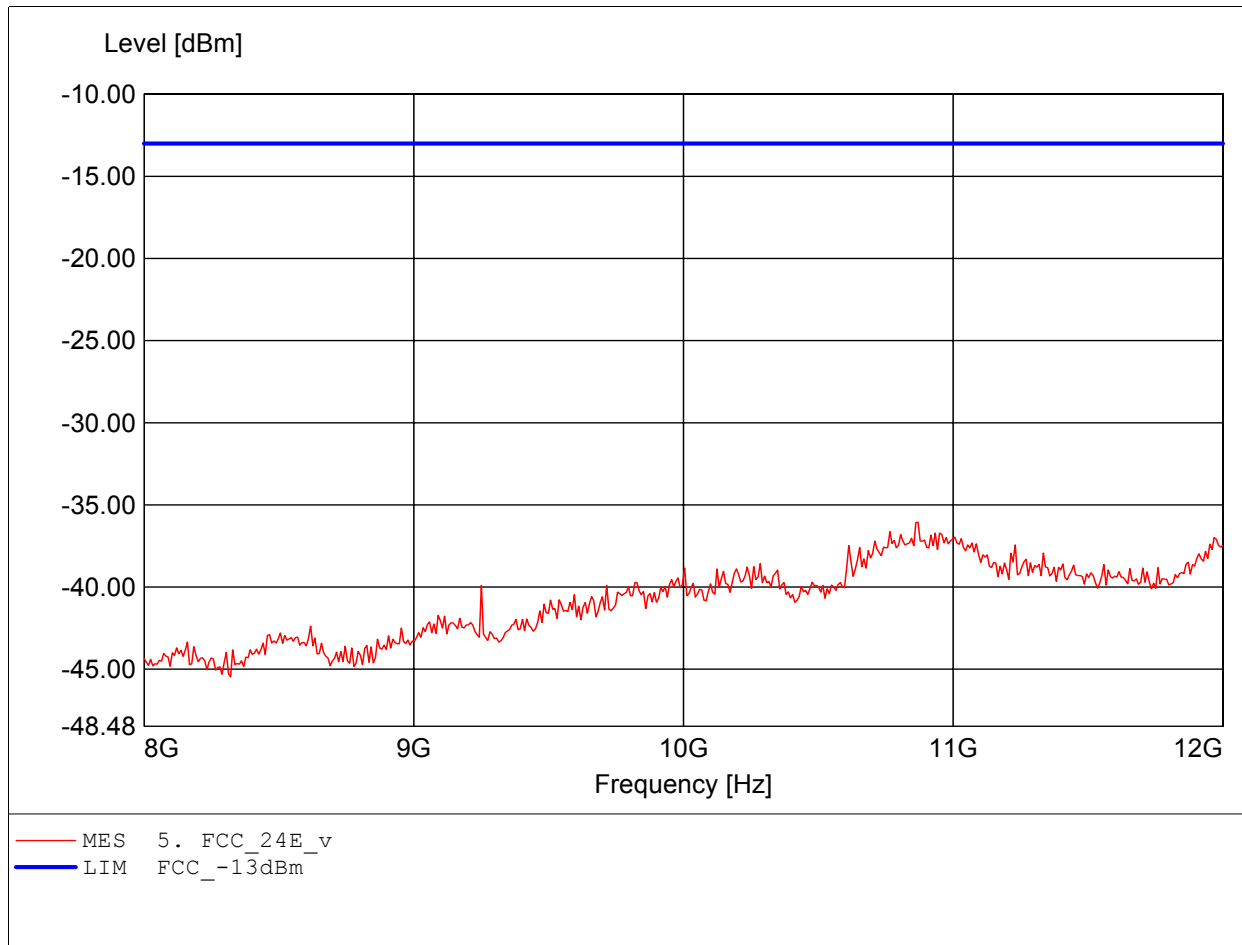
Order Number : W6M20612-7664 1900 band ch512
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.022GHz, Pmax: -36.85dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

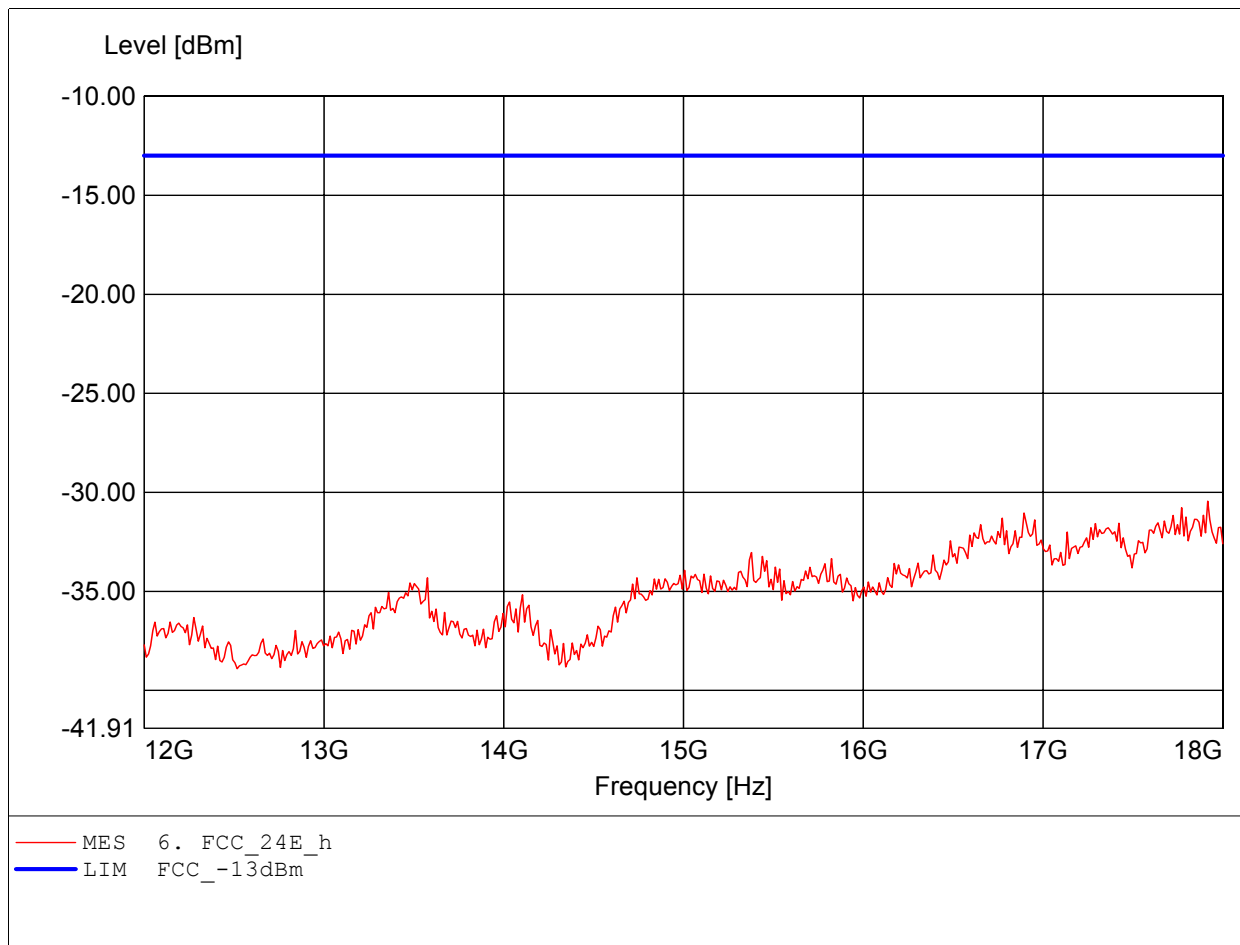
Order Number : W6M20612-7664 1900 band ch512
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 10.870GHz, Pmax: -36.05dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

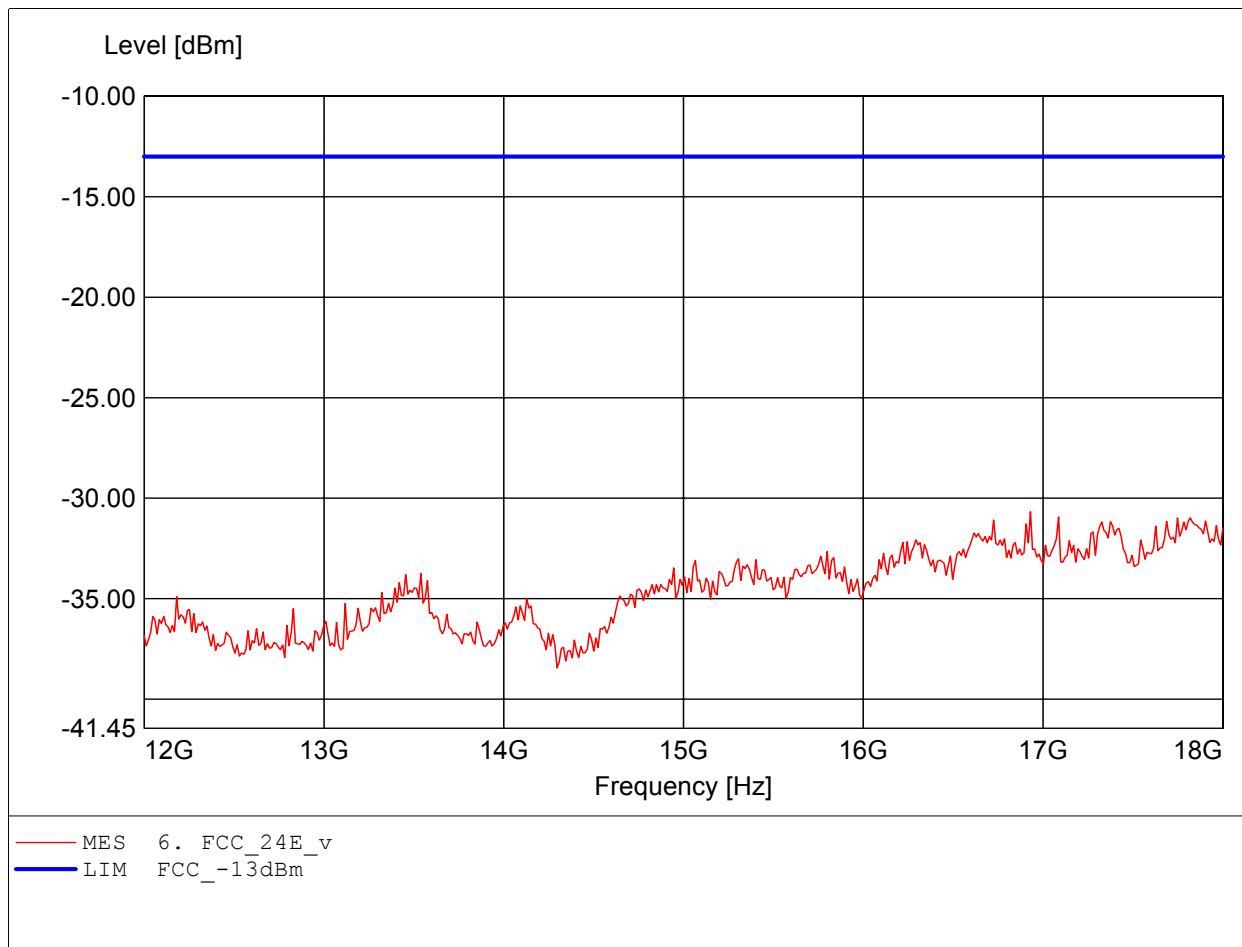
Order Number : W6M20612-7664 1900 band ch512
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 17.916GHz, Pmax: -30.44dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

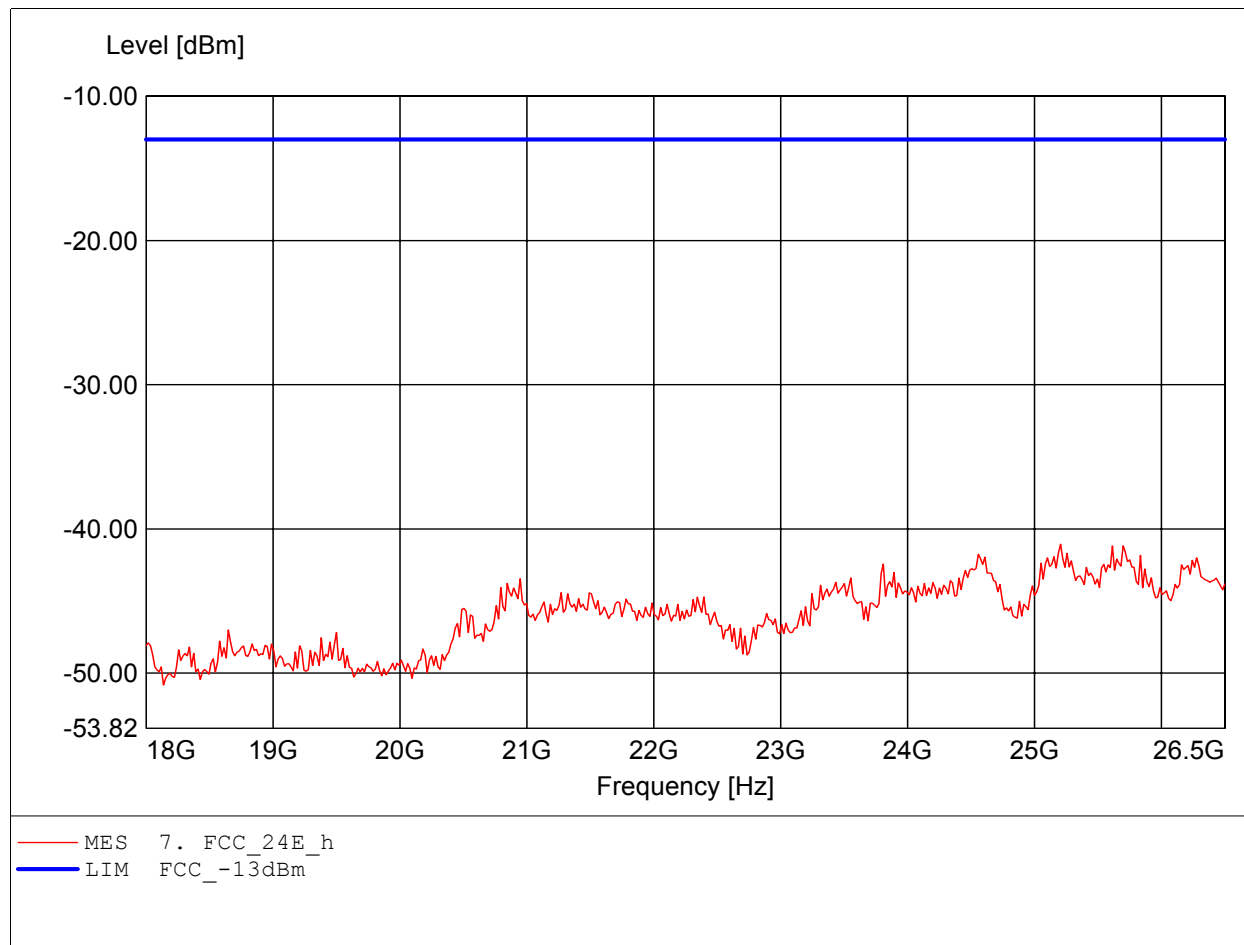
Order Number : W6M20612-7664 1900 band ch512
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 16.930GHz, Pmax: -30.67dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

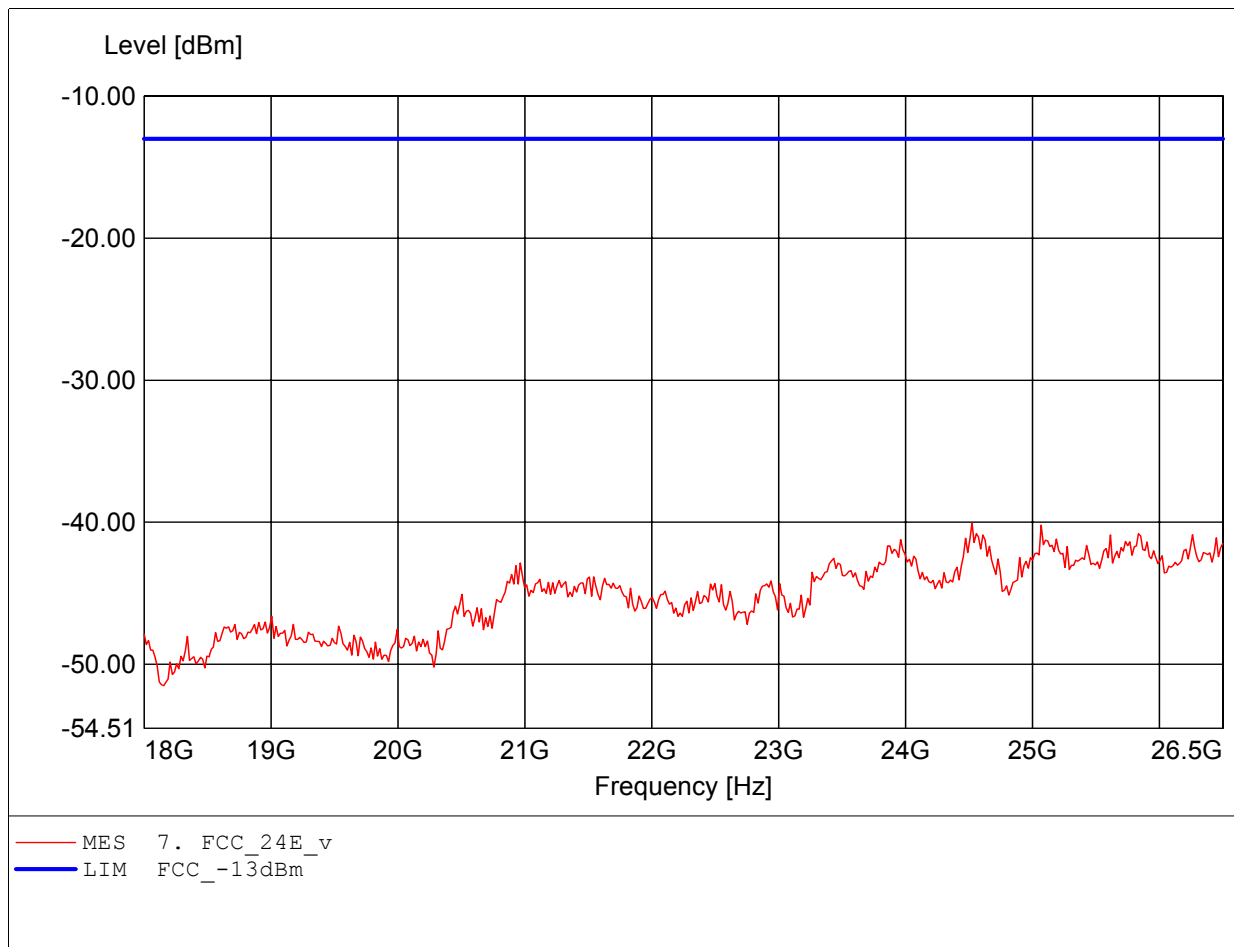
Order Number : W6M20612-7664 1900 band ch512
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 25.205GHz, Pmax: -41.06dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

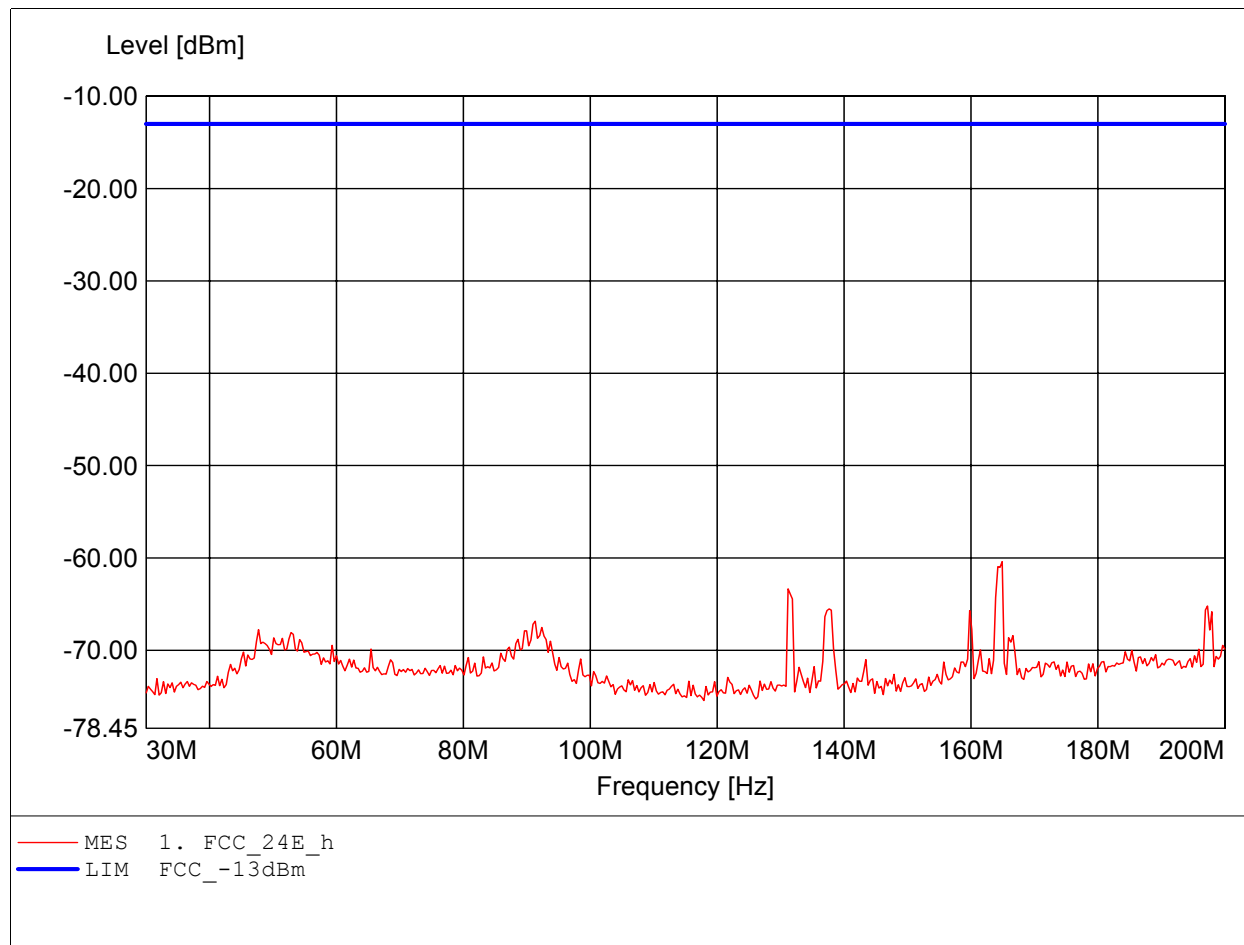
Order Number : W6M20612-7664 1900 band ch512
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 24.524GHz, Pmax: -40.05dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

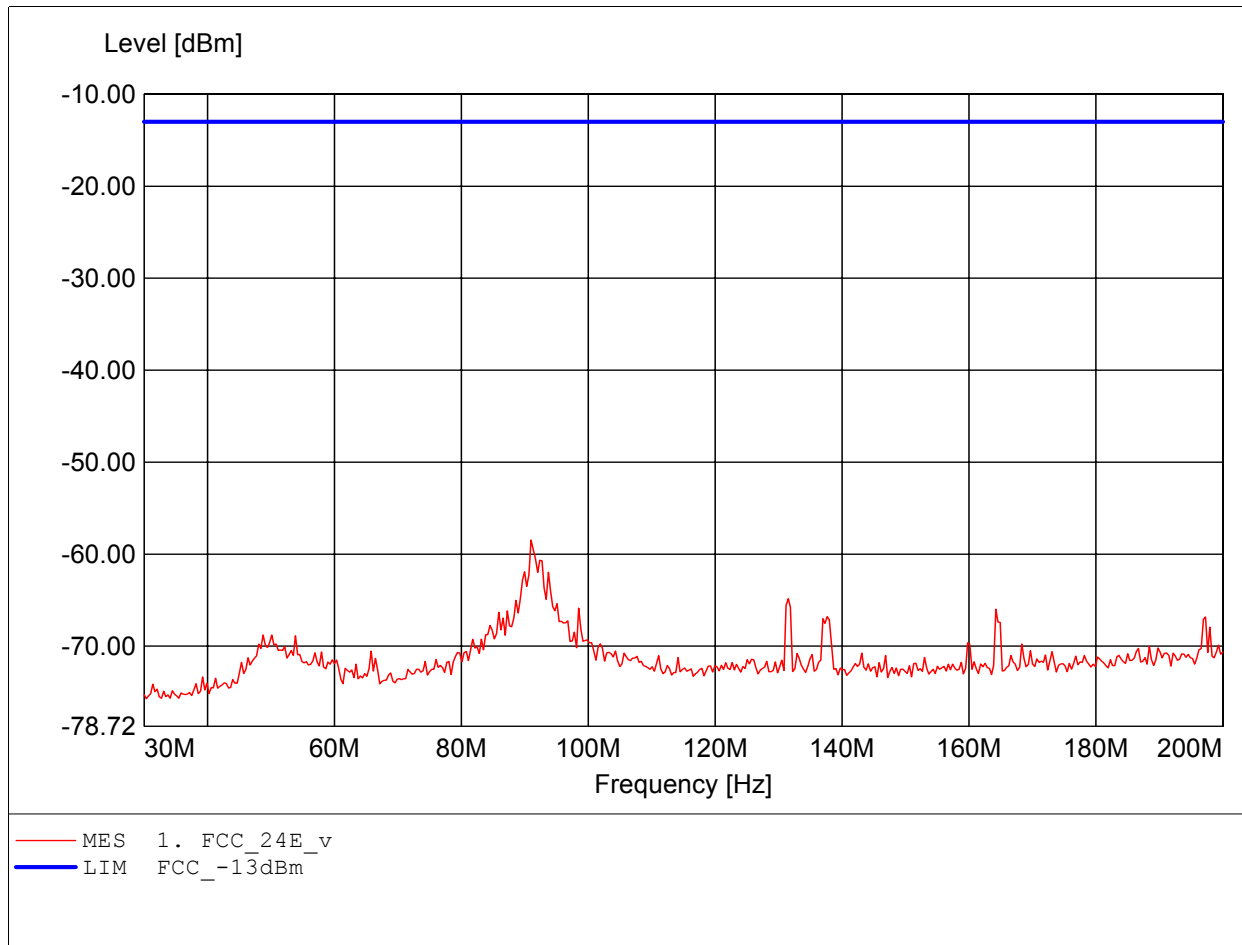
Order Number : W6M20612-7664 1900 band ch661
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 164.910MHz, Pmax: -60.41dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

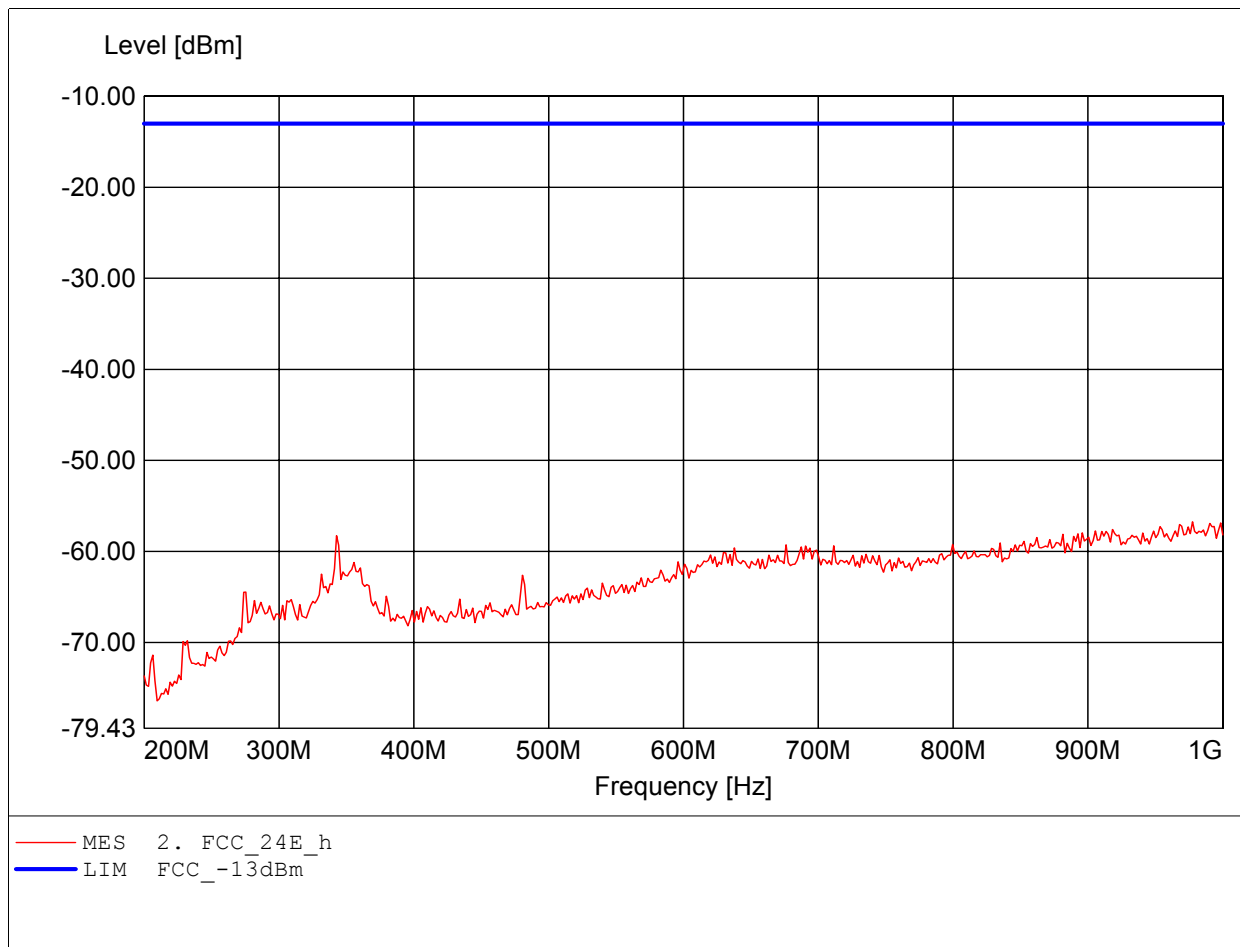
Order Number : W6M20612-7664 1900 band ch661
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 90.982MHz, Pmax: -58.47dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

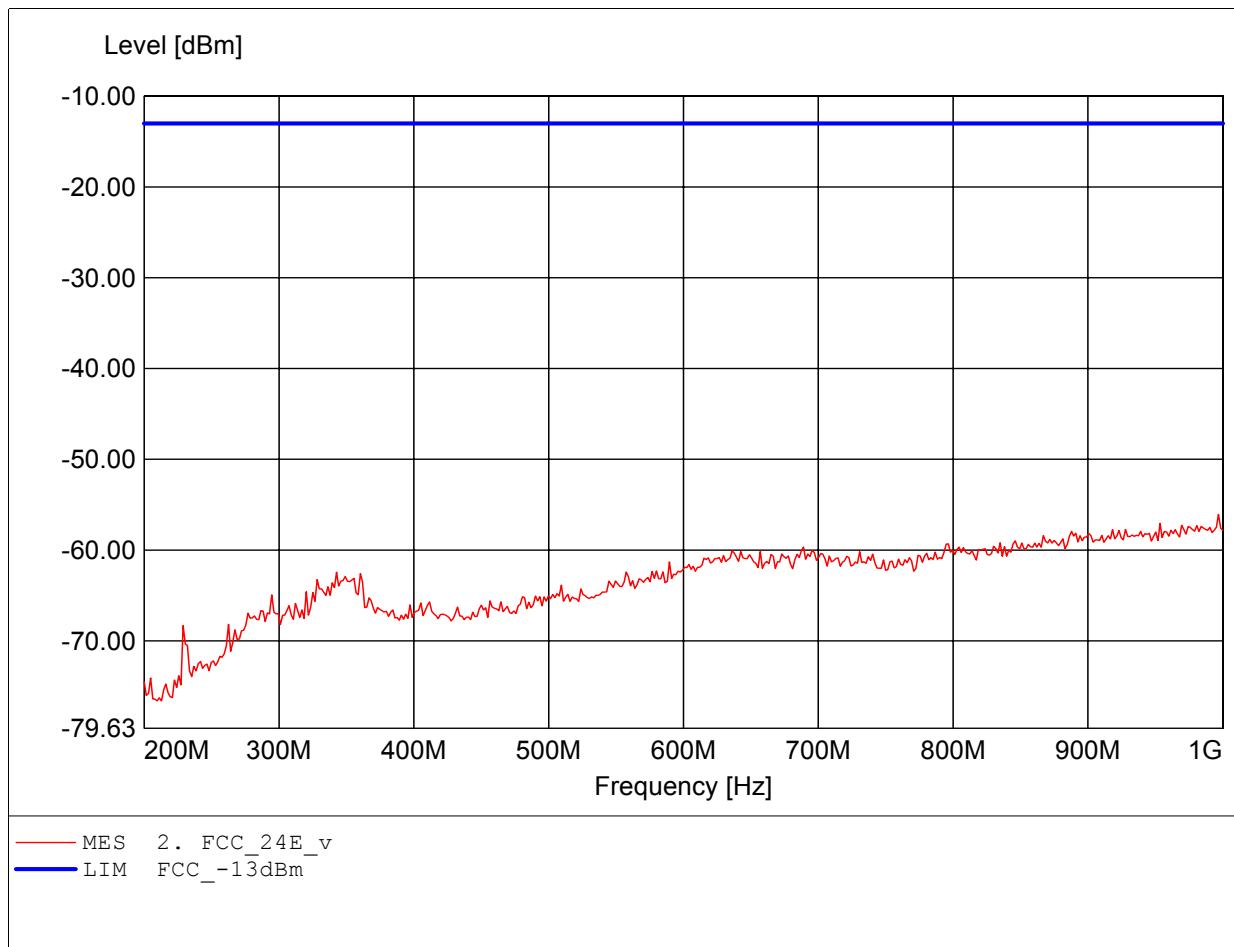
Order Number : W6M20612-7664 1900 band ch661
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL 223
Freq: 977.555MHz, Pmax: -56.75dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

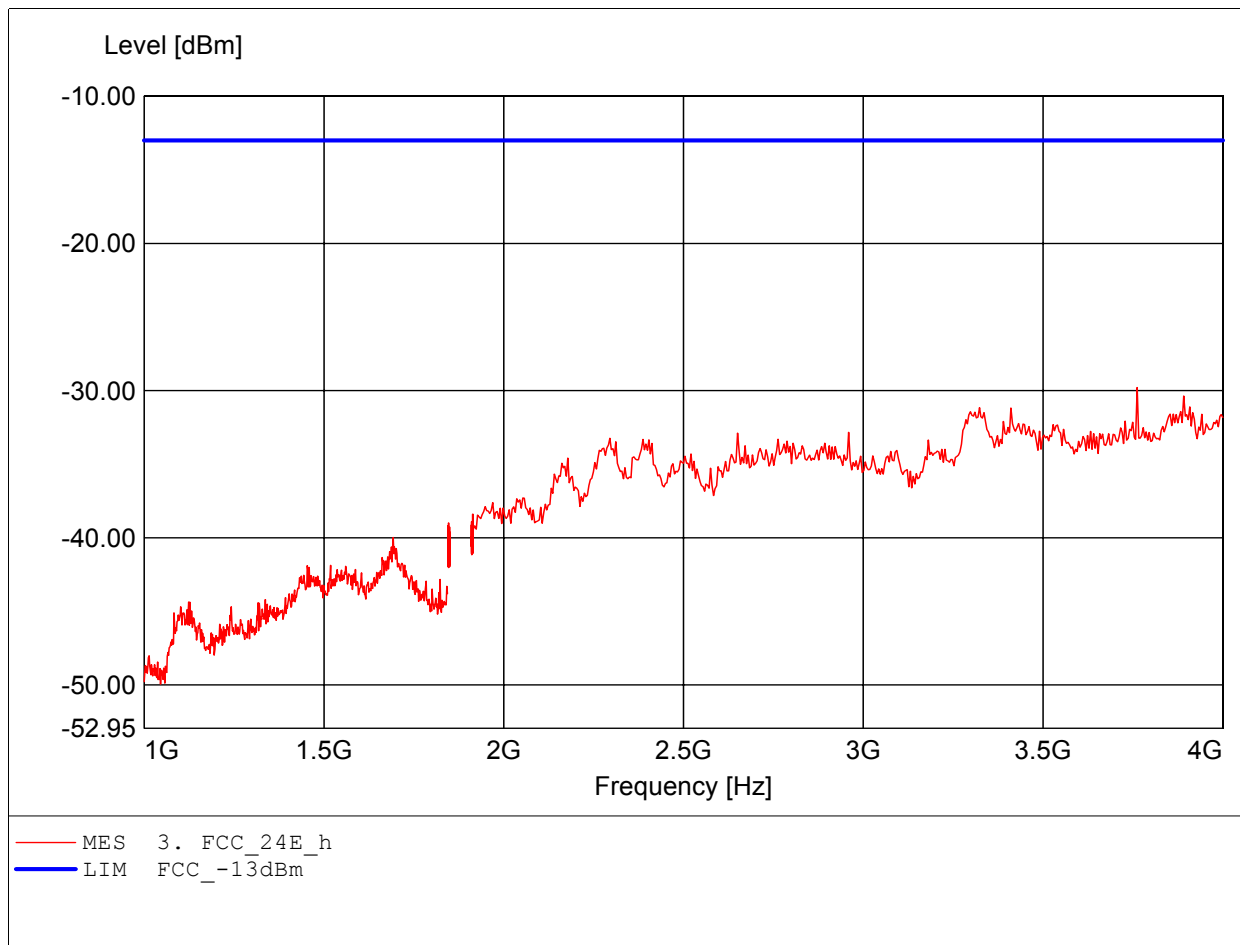
Order Number : W6M20612-7664 1900 band ch661
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL 223
Freq: 996.794MHz, Pmax: -56.08dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

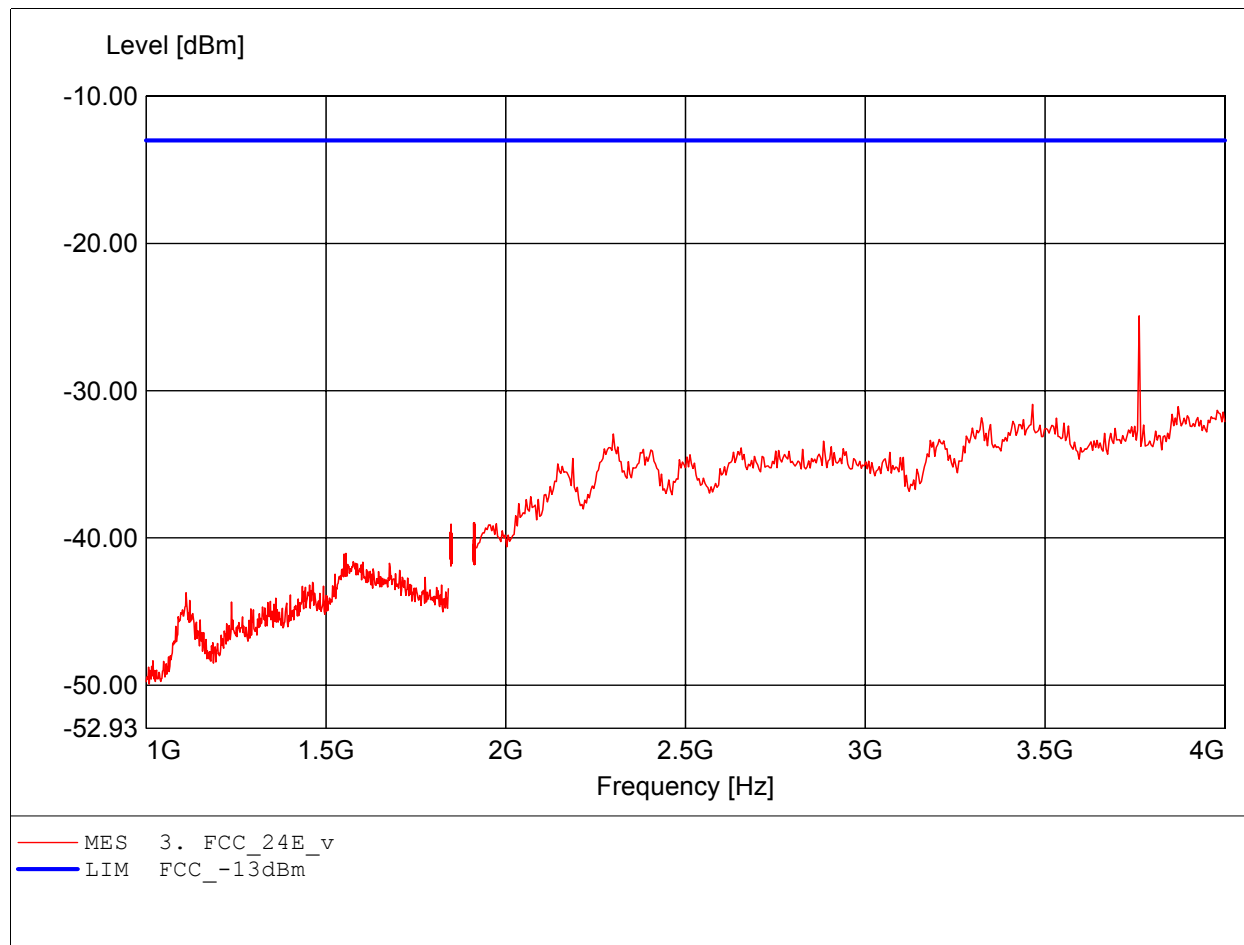
Order Number : W6M20612-7664 1900 band ch661
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 3.762GHz, Pmax: -29.80dBm, RBW: 1MHz/3kHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

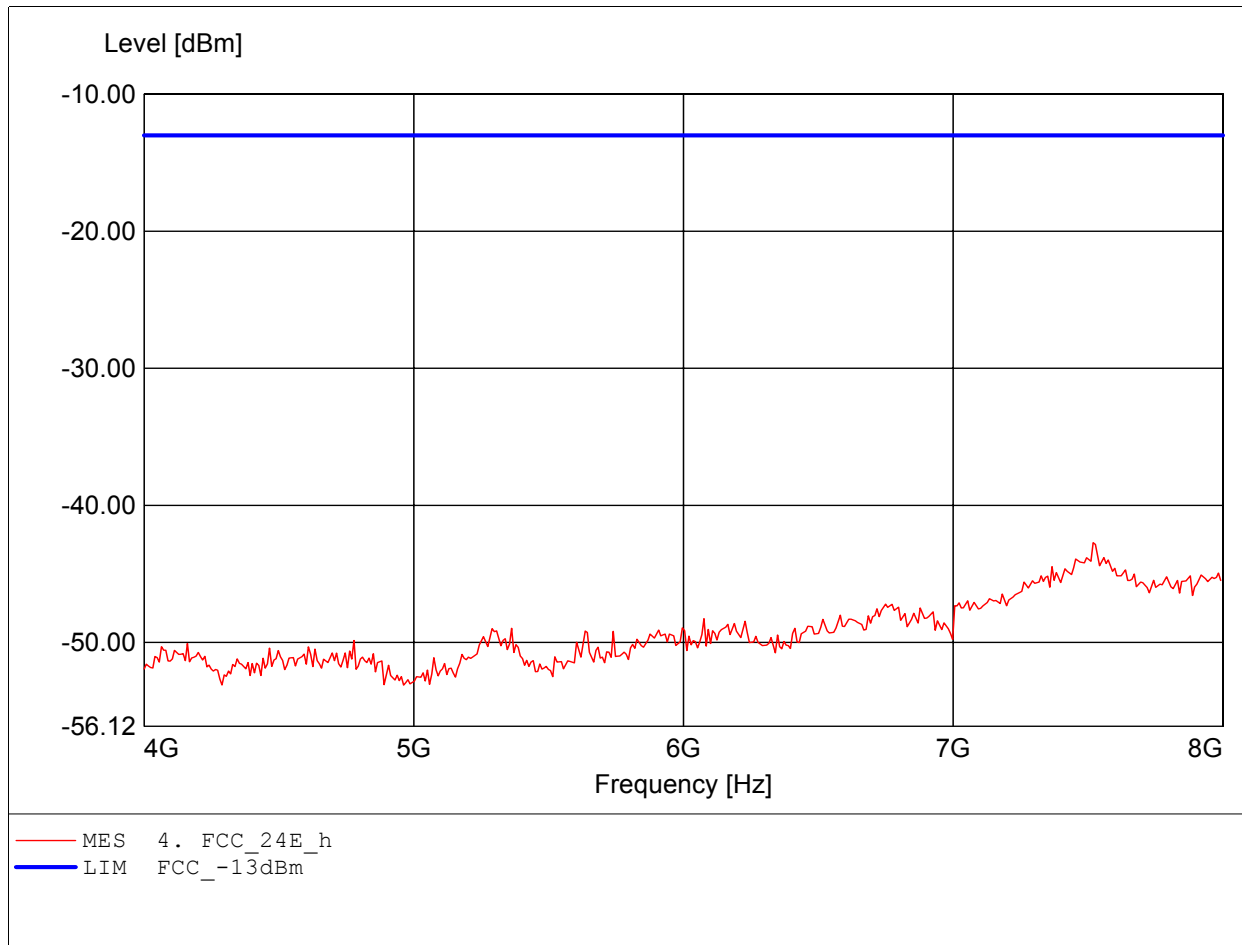
Order Number : W6M20612-7664 1900 band ch661
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 3.762GHz, Pmax: -24.92dBm, RBW: 1MHz/3kHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

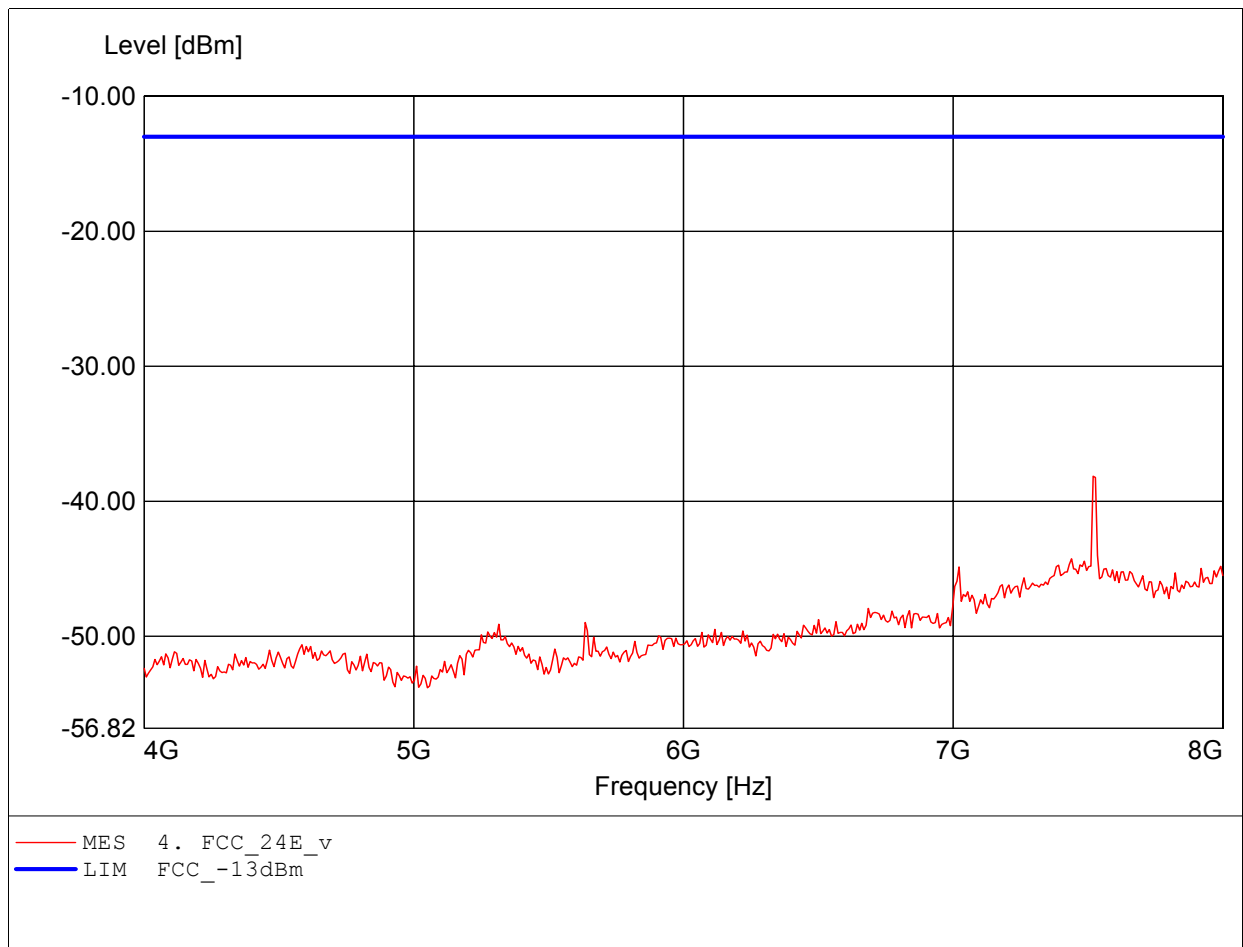
Order Number : W6M20612-7664 1900 band ch661
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.519GHz, Pmax: -42.73dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

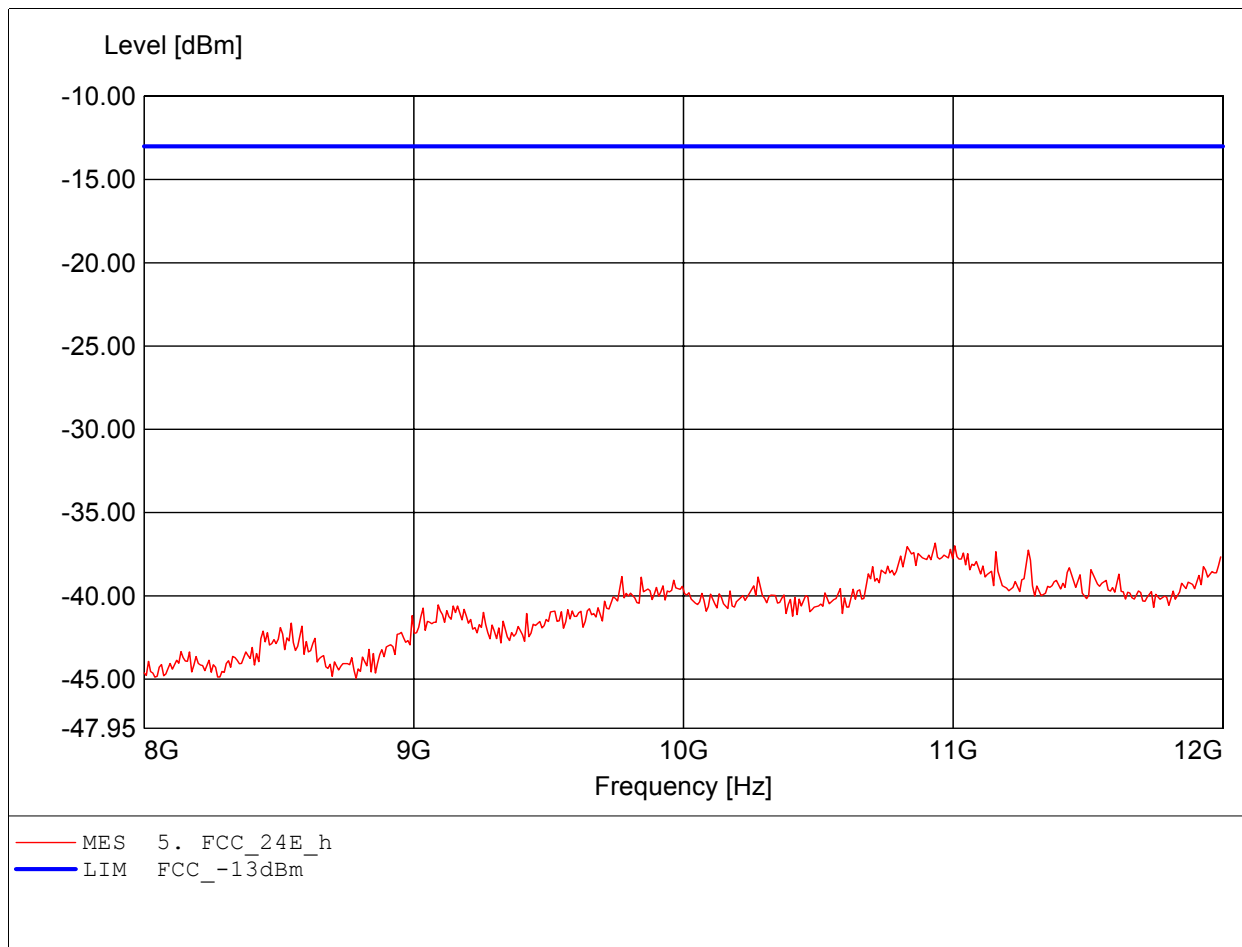
Order Number : W6M20612-7664 1900 band ch661
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.519GHz, Pmax: -38.14dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

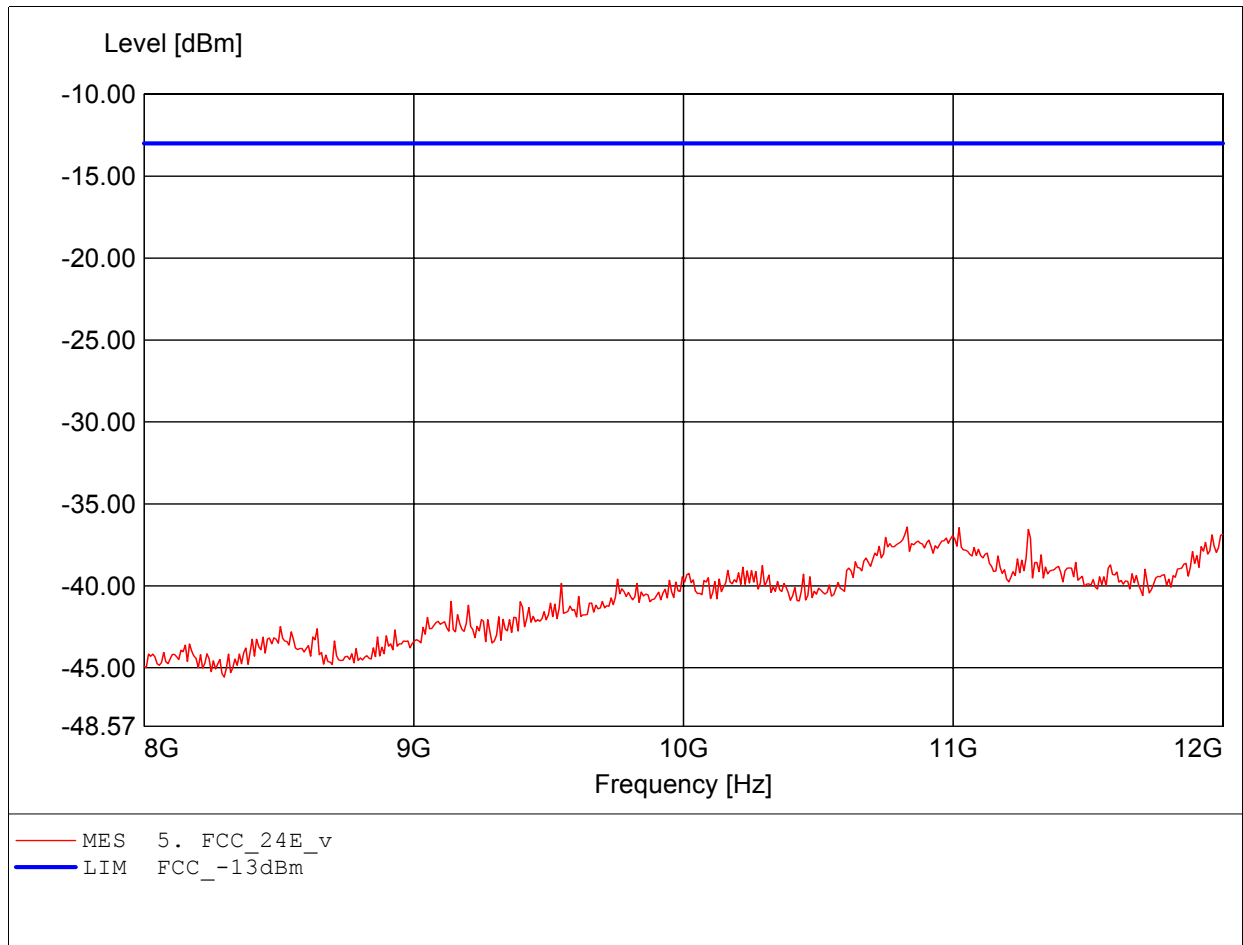
Order Number : W6M20612-7664 1900 band ch661
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 10.934GHz, Pmax: -36.83dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

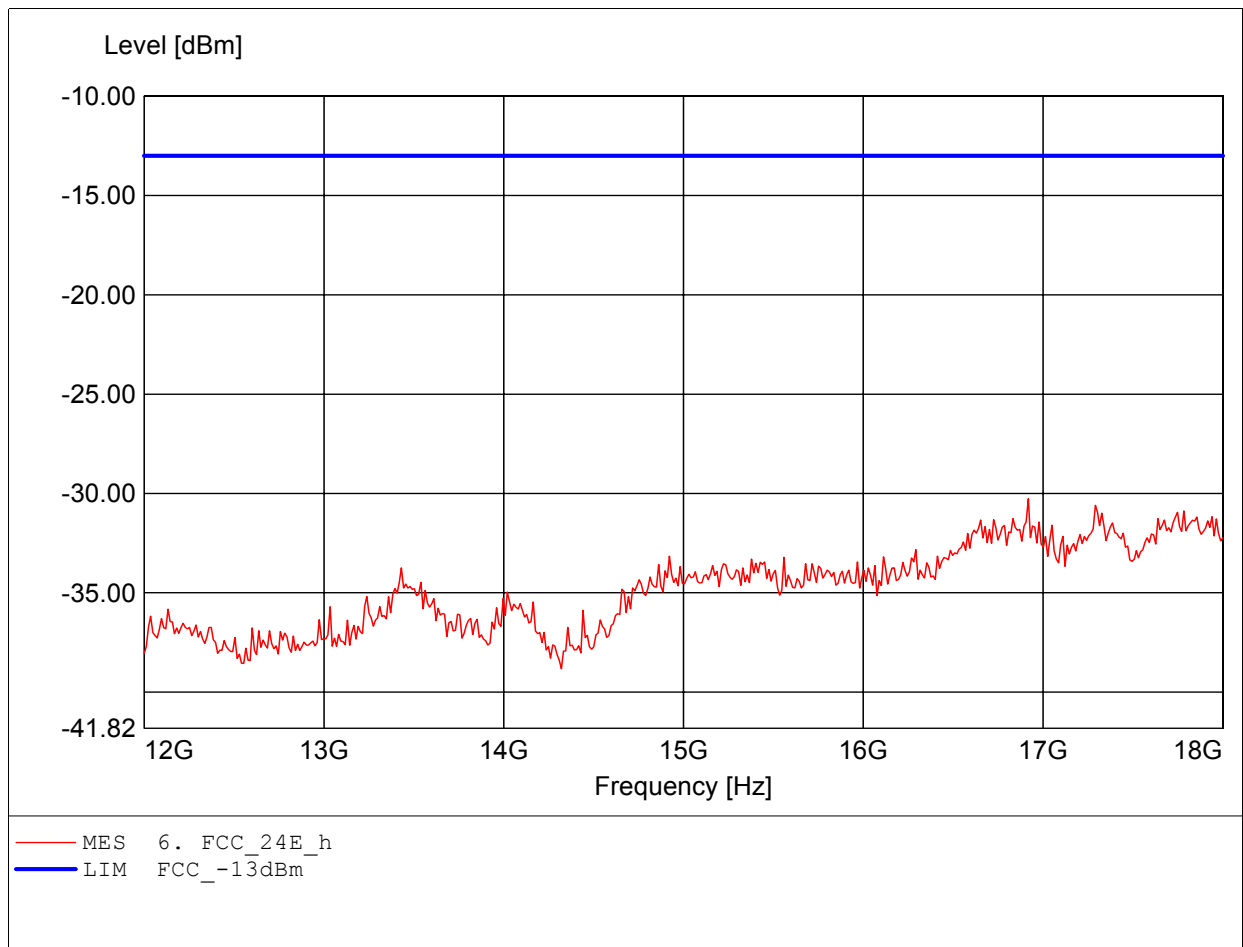
Order Number : W6M20612-7664 1900 band ch661
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 10.830GHz, Pmax: -36.42dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

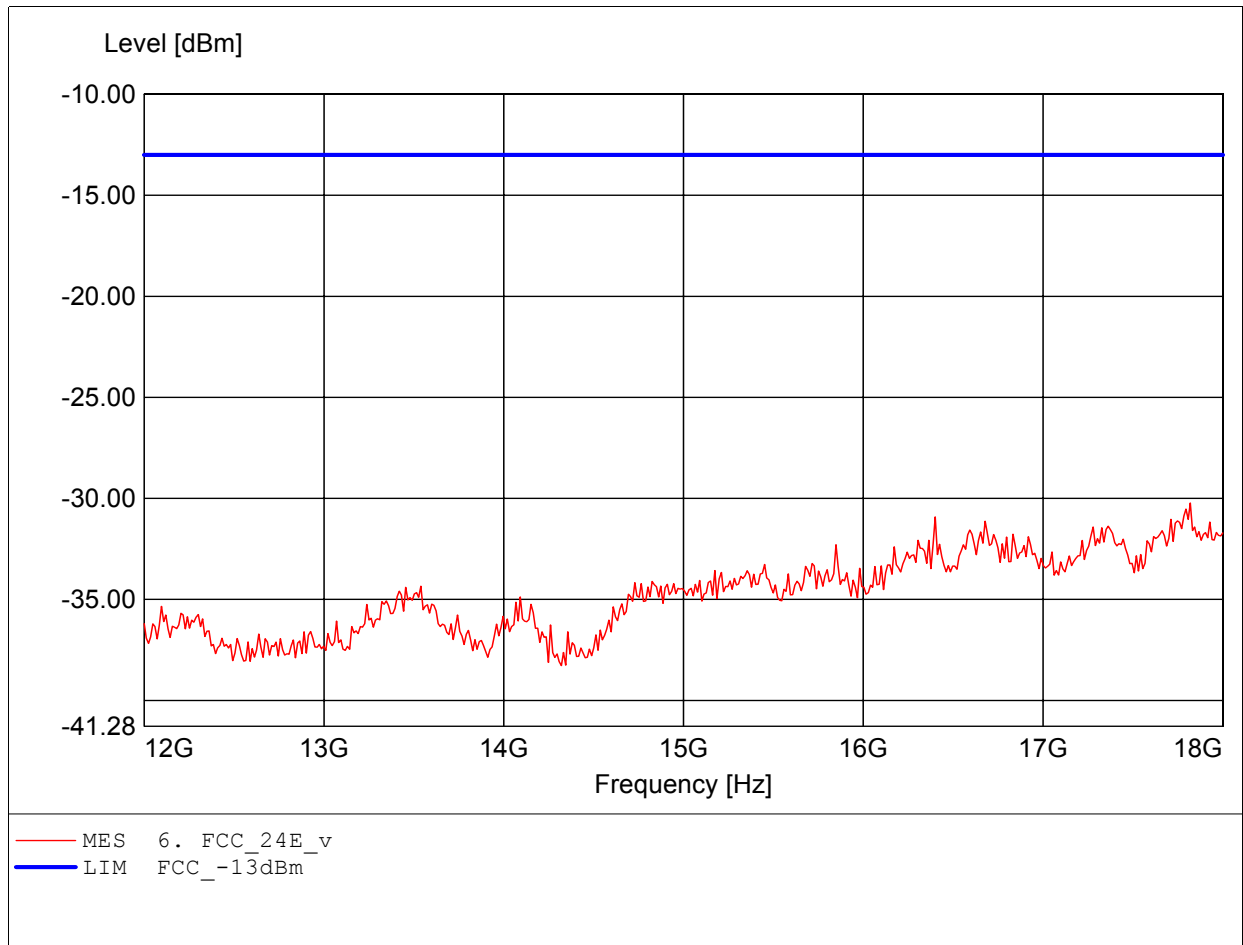
Order Number : W6M20612-7664 1900 band ch661
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 16.918GHz, Pmax: -30.26dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

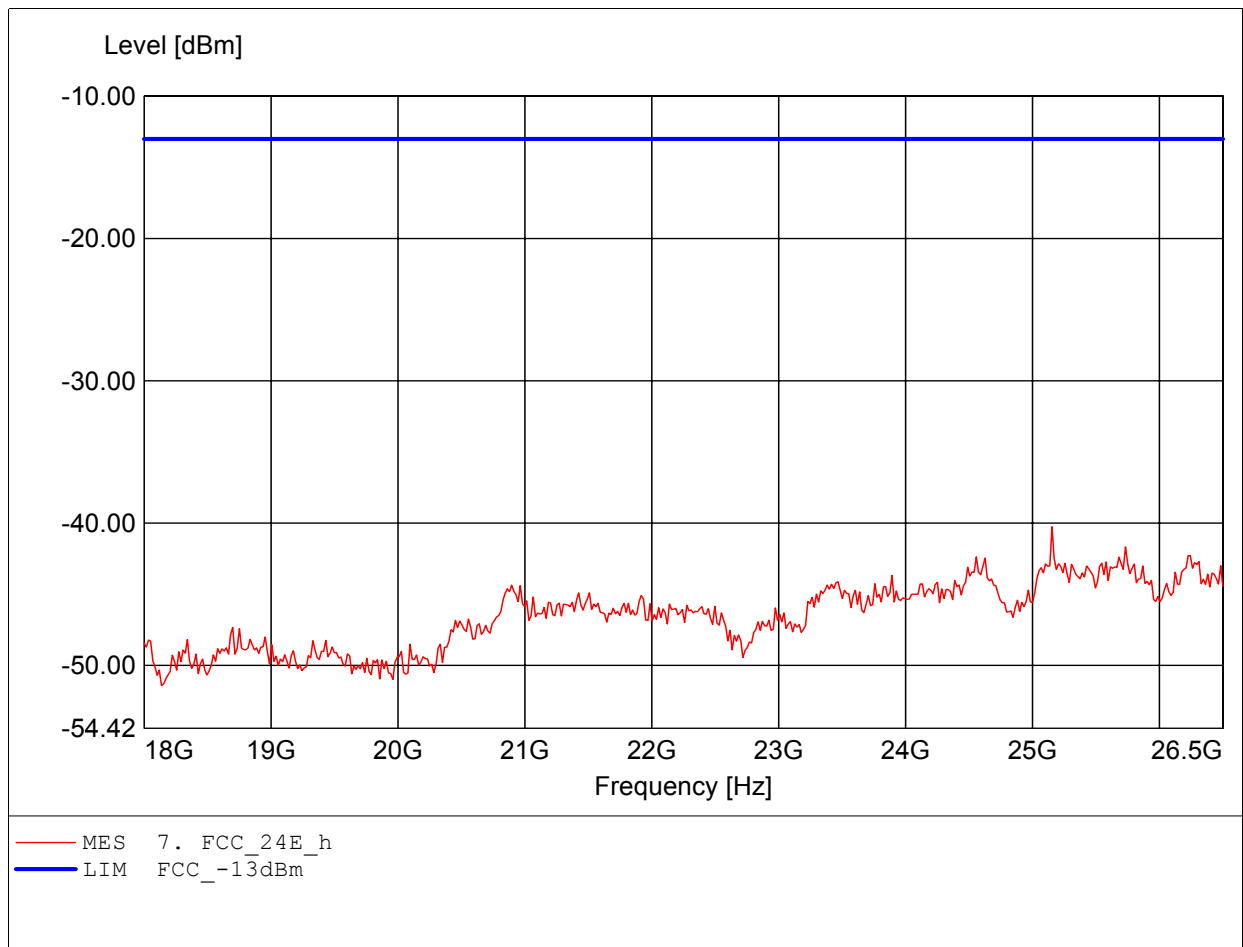
Order Number : W6M20612-7664 1900 band ch661
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 17.820GHz, Pmax: -30.23dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

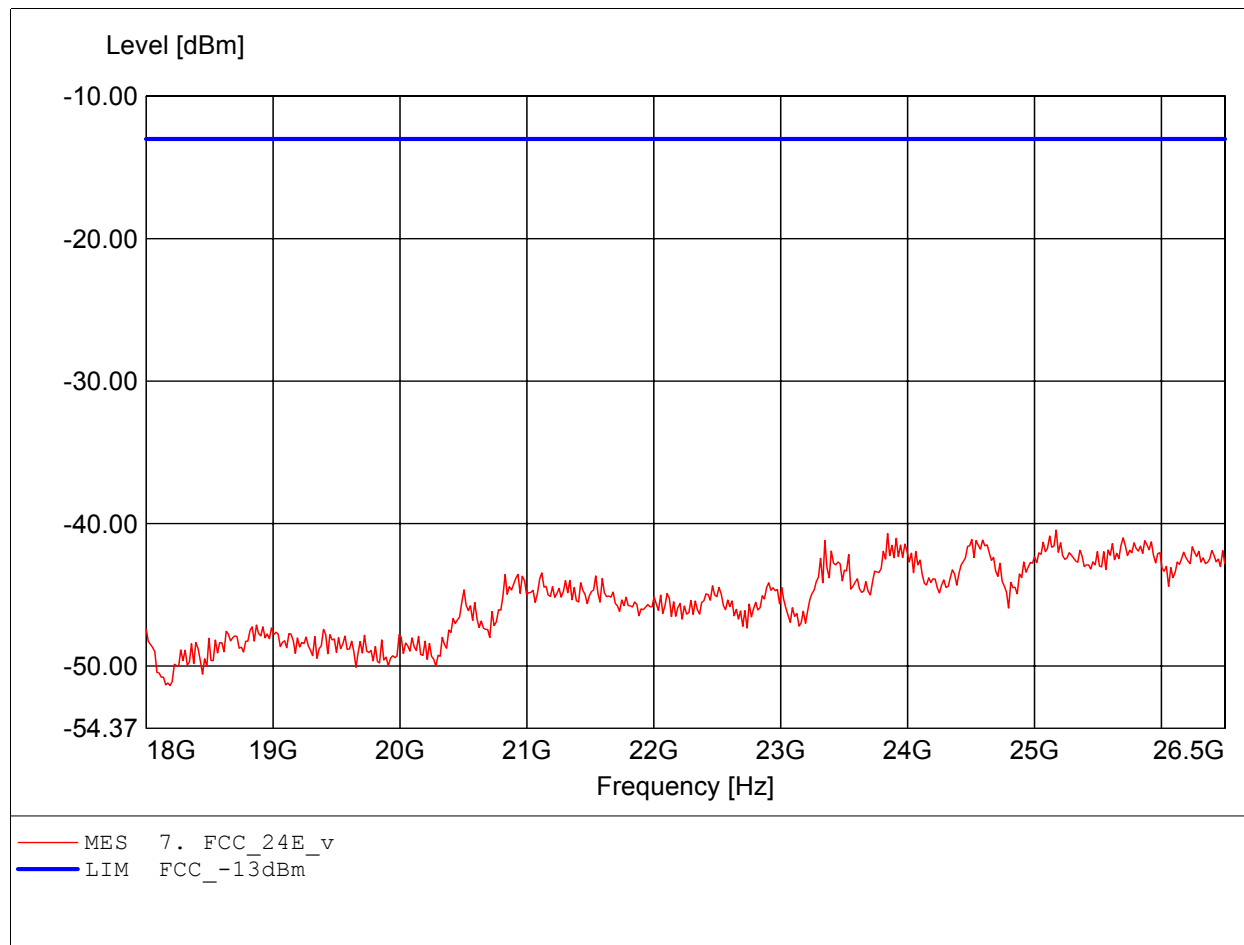
Order Number : W6M20612-7664 1900 band ch661
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 25.154GHz, Pmax: -40.26dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

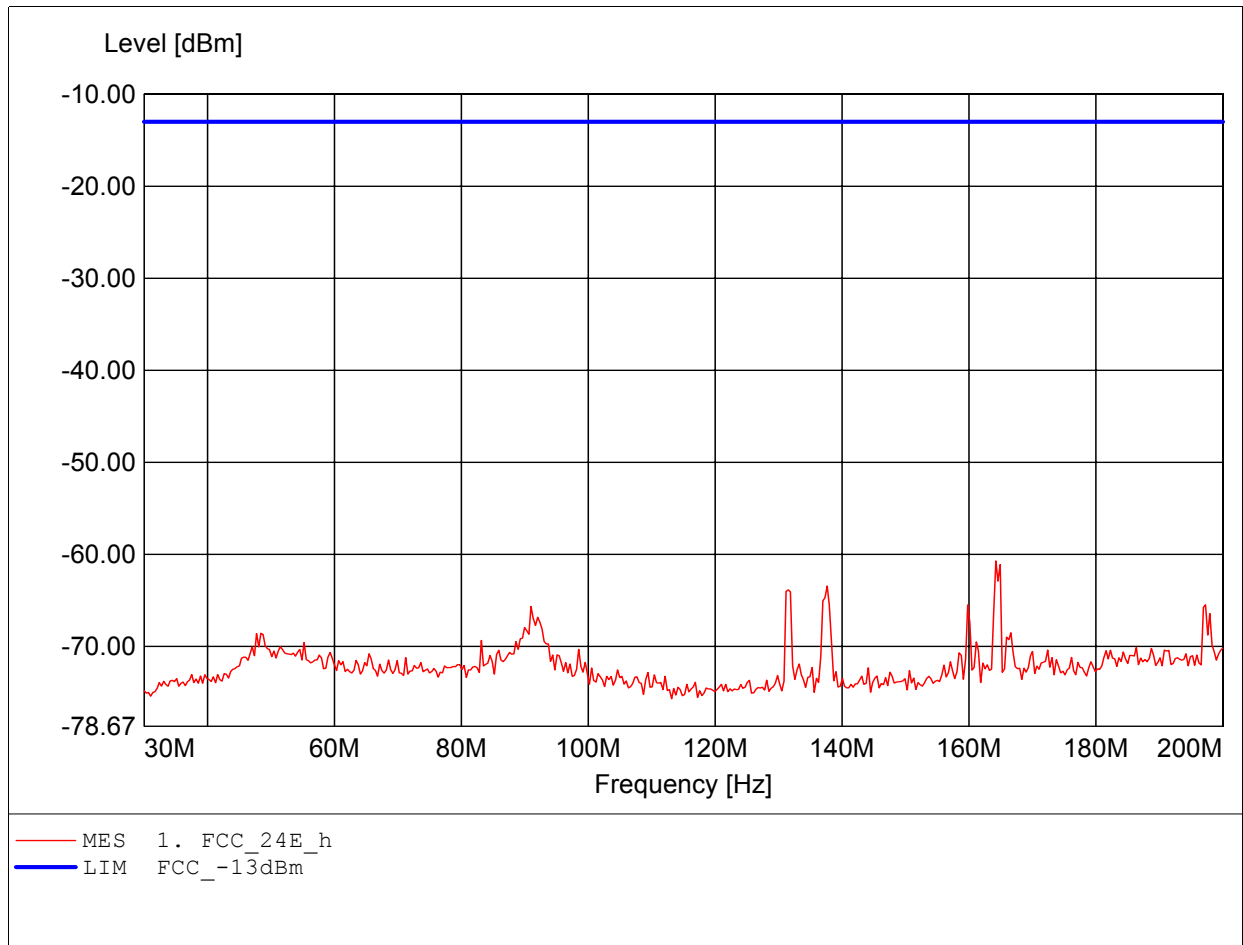
Order Number : W6M20612-7664 1900 band ch661
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 25.171GHz, Pmax: -40.45dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

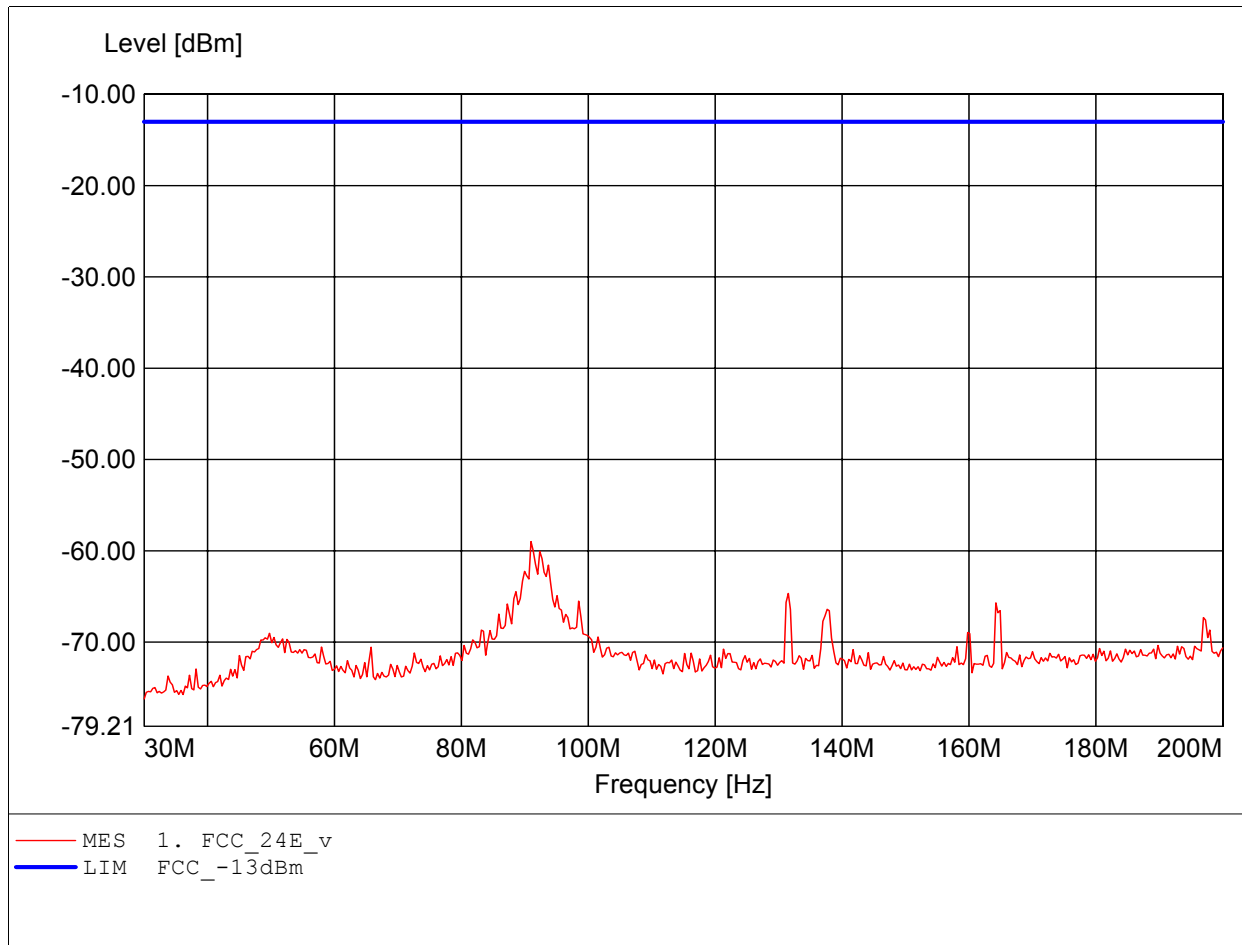
Order Number : W6M20612-7664 1900 band ch810
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 164.228MHz, Pmax: -60.71dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

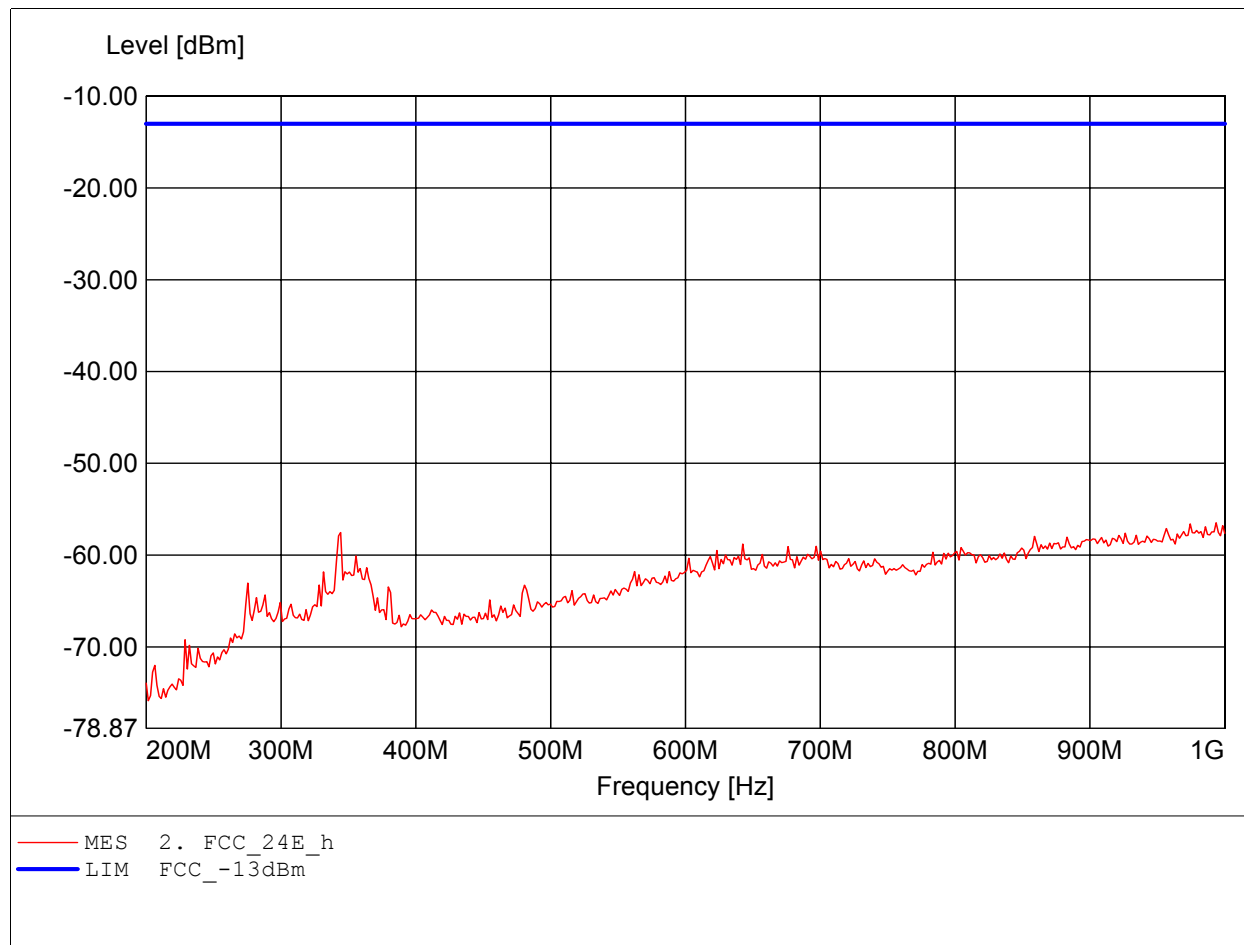
Order Number : W6M20612-7664 1900 band ch810
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 90.982MHz, Pmax: -58.99dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

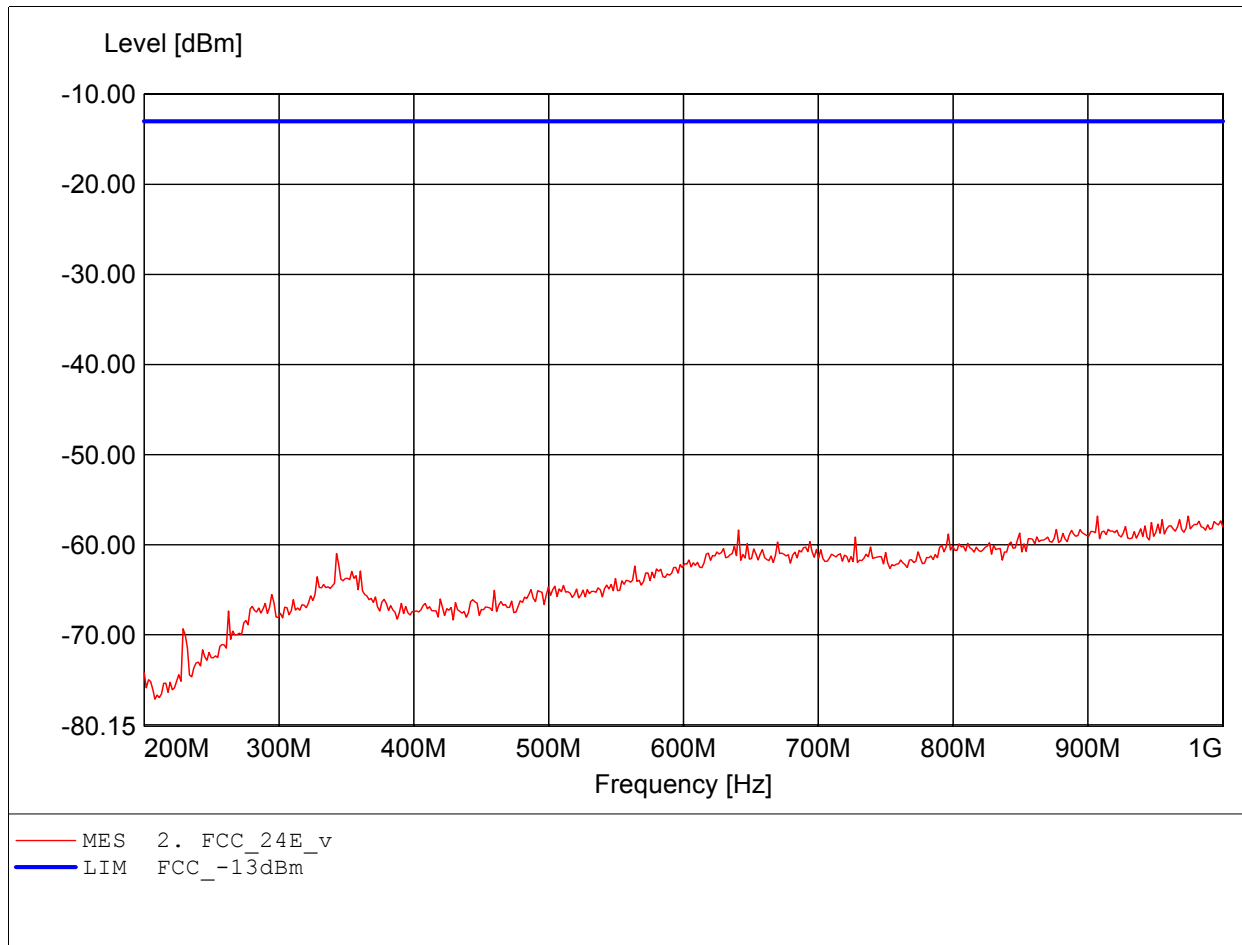
Order Number : W6M20612-7664 1900 band ch810
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL 223
Freq: 993.587MHz, Pmax: -56.48dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

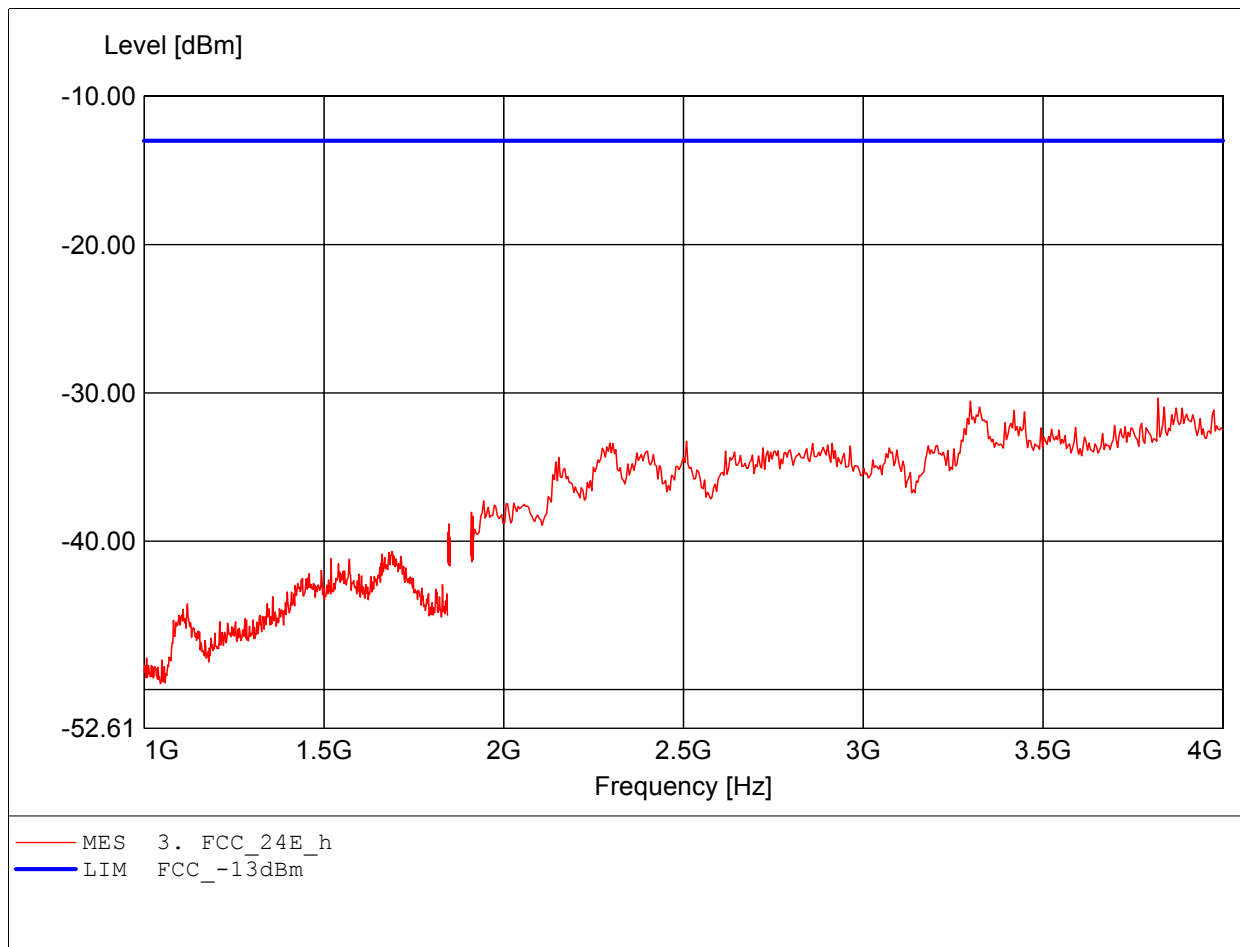
Order Number : W6M20612-7664 1900 band ch810
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL 223
Freq: 907.014MHz, Pmax: -56.81dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

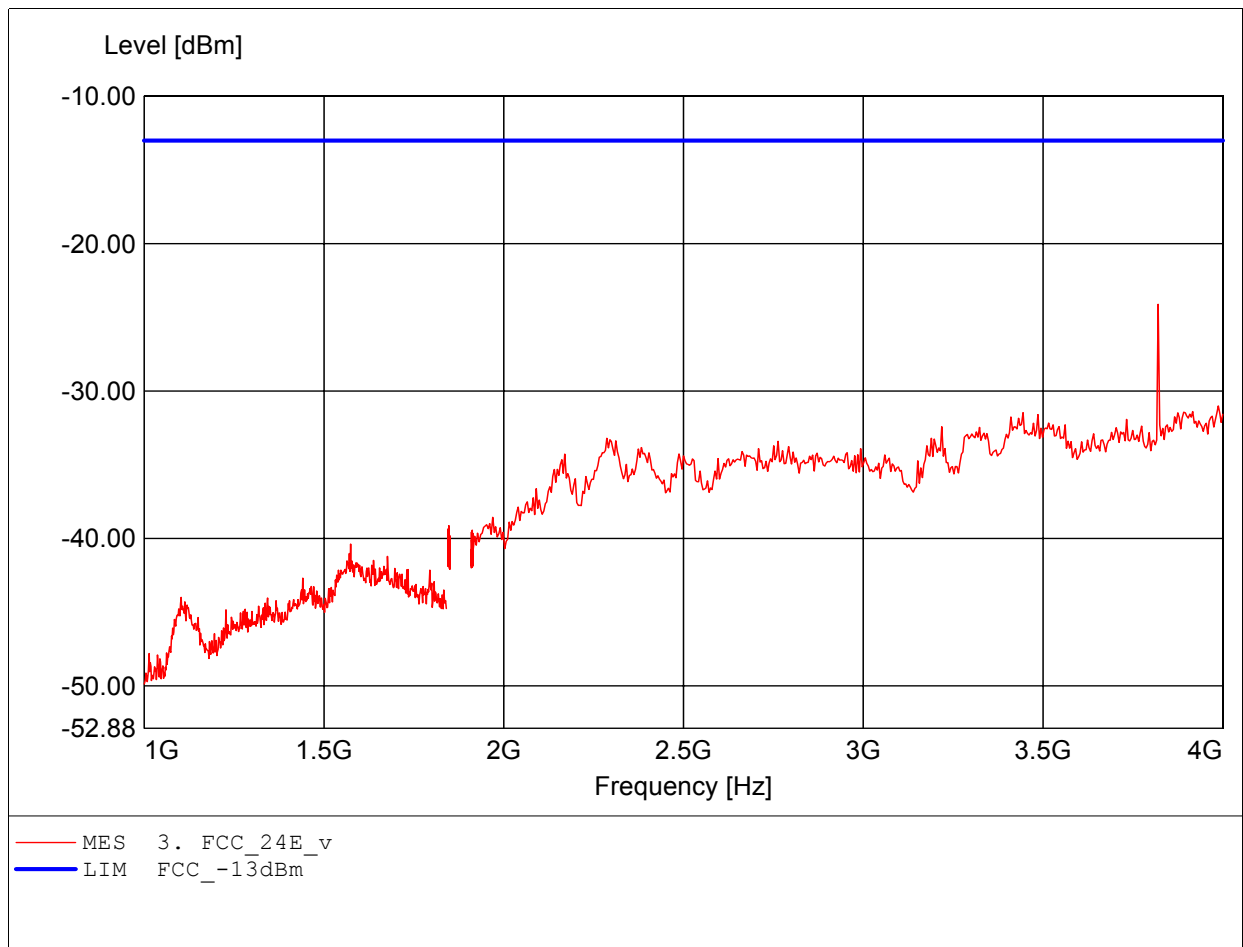
Order Number : W6M20612-7664 1900 band ch810
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 3.820GHz, Pmax: -30.35dBm, RBW: 1MHz/3kHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

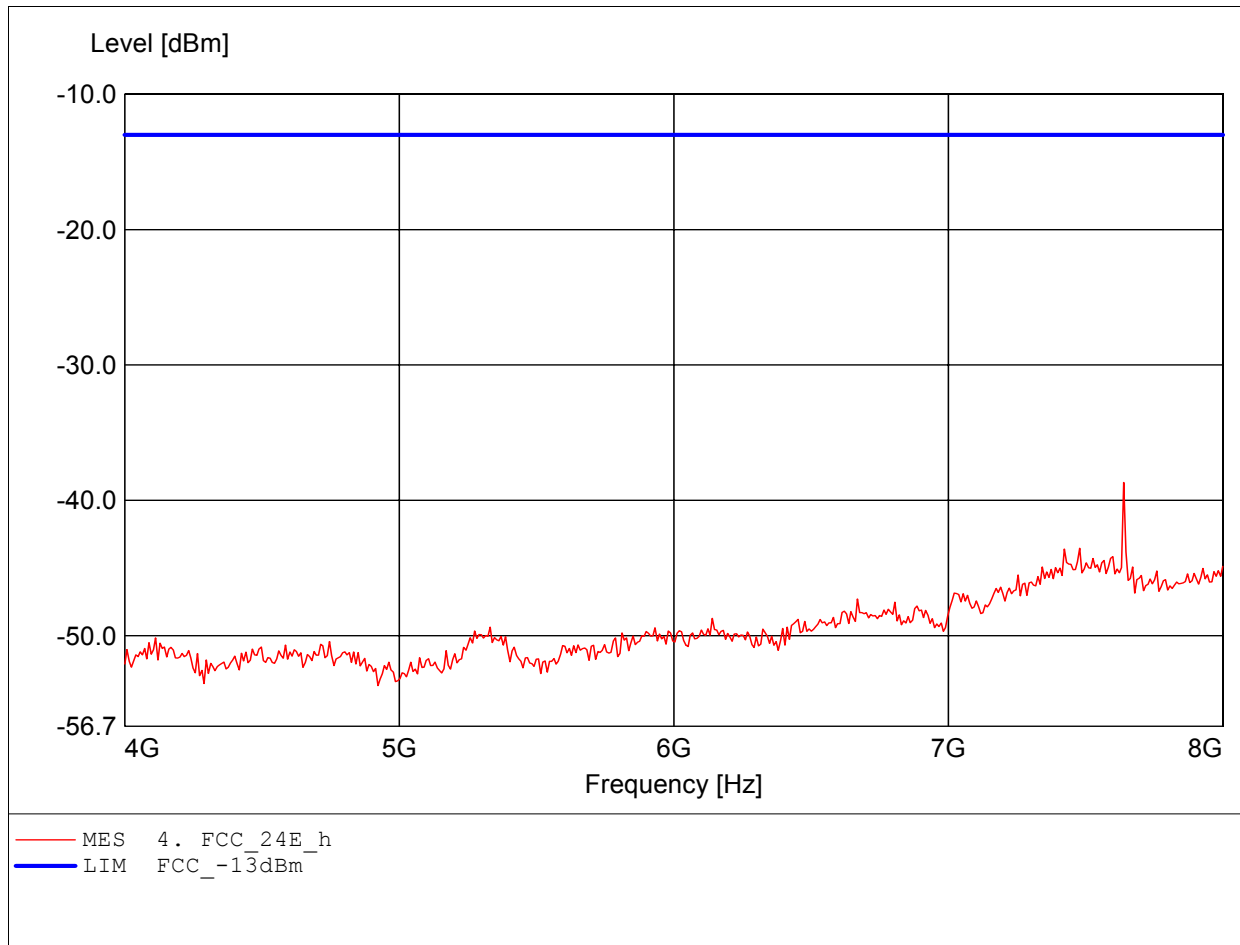
Order Number : W6M20612-7664 1900 band ch810
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 3.820GHz, Pmax: -24.12dBm, RBW: 1MHz/3kHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

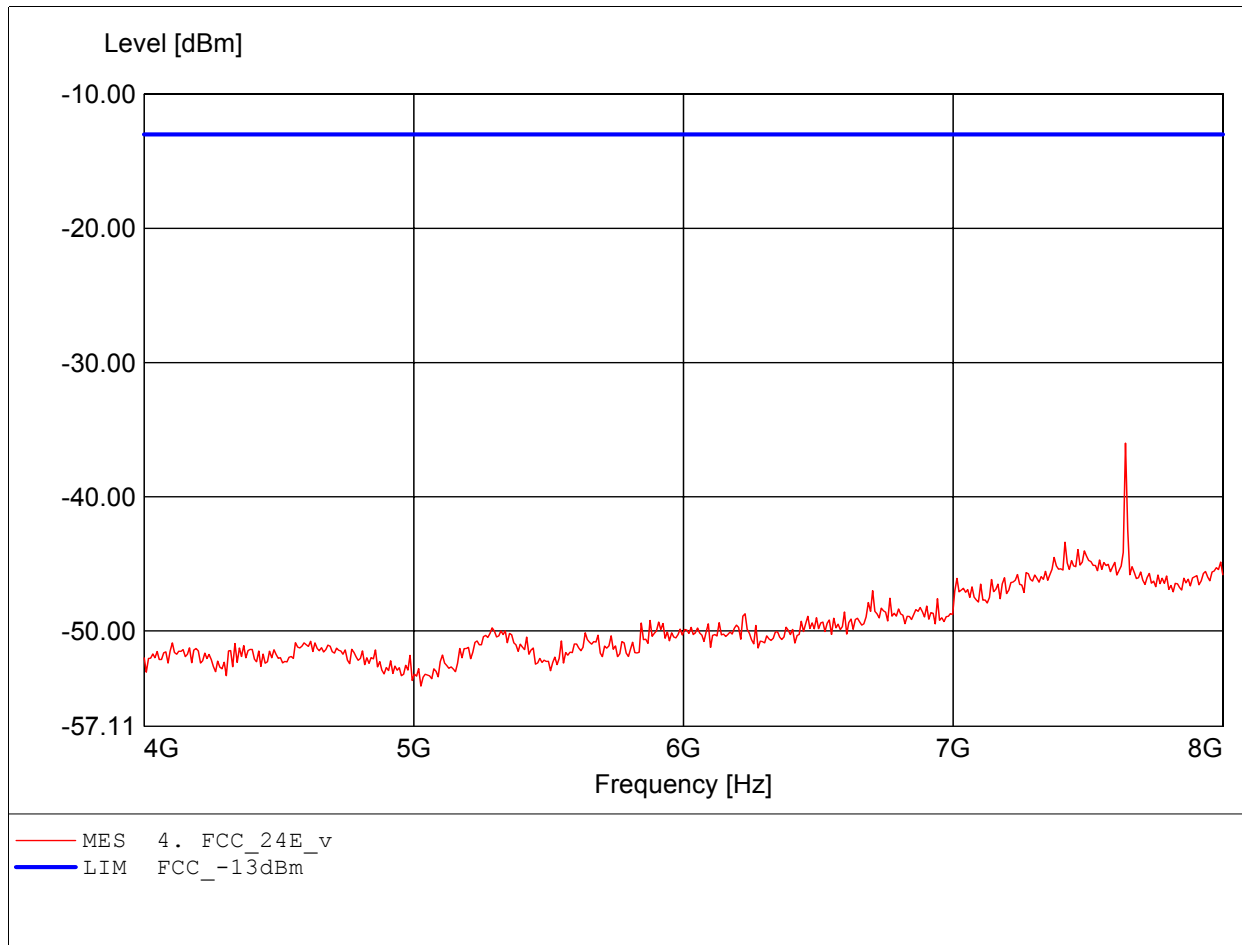
Order Number : W6M20612-7664 1900 band ch810
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.639GHz, Pmax: -38.69dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

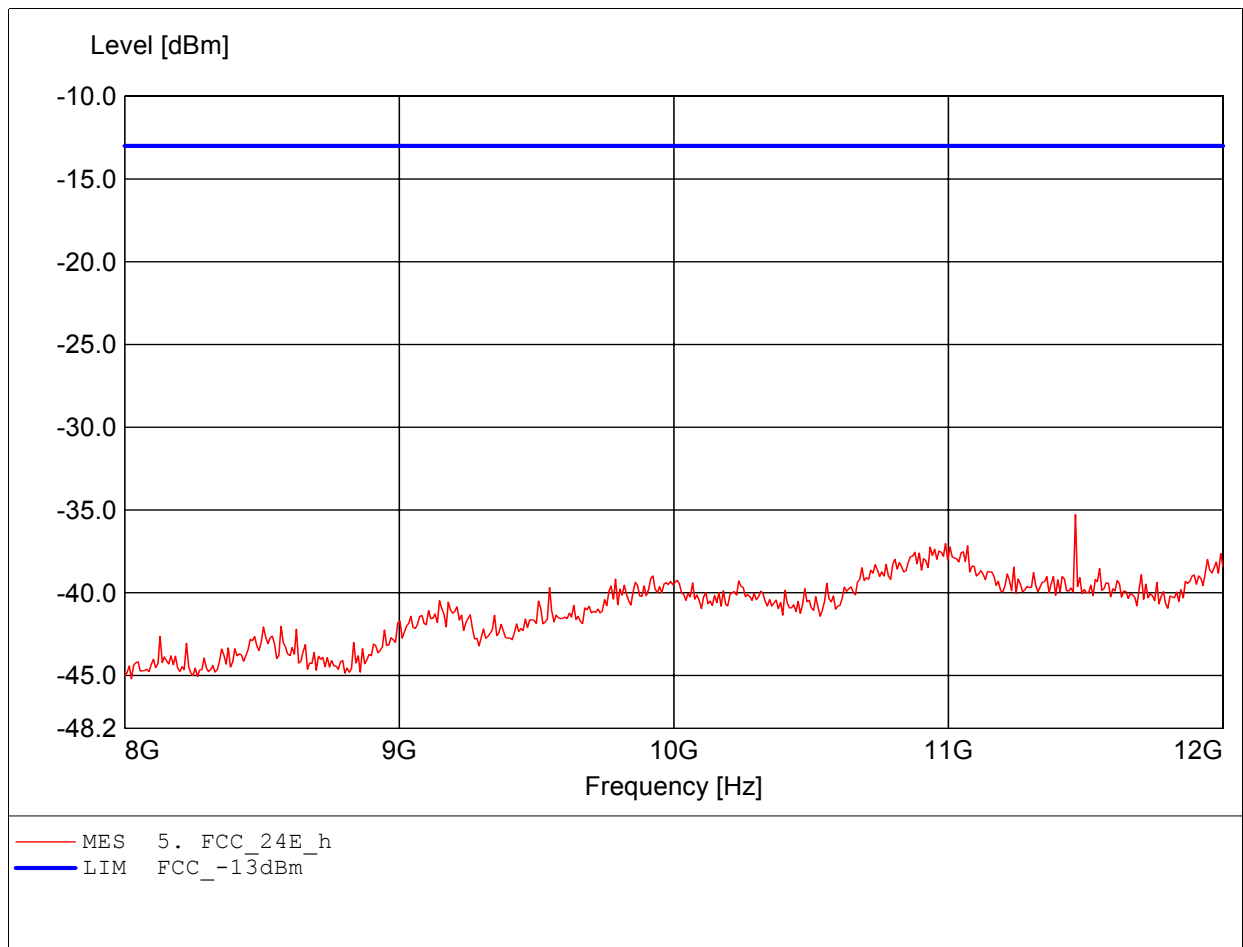
Order Number : W6M20612-7664 1900 band ch810
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.639GHz, Pmax: -36.01dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

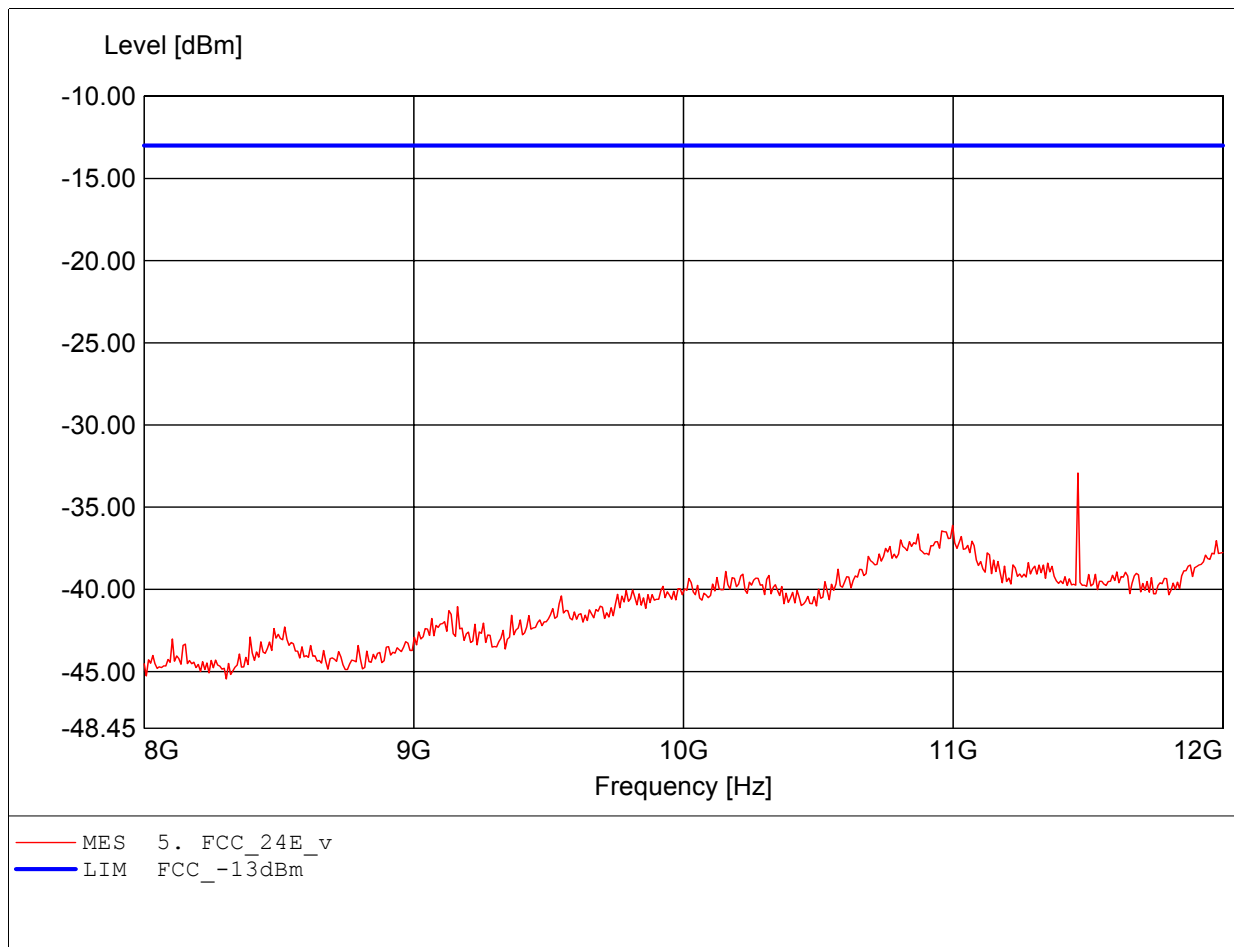
Order Number : W6M20612-7664 1900 band ch810
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.463GHz, Pmax: -35.29dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

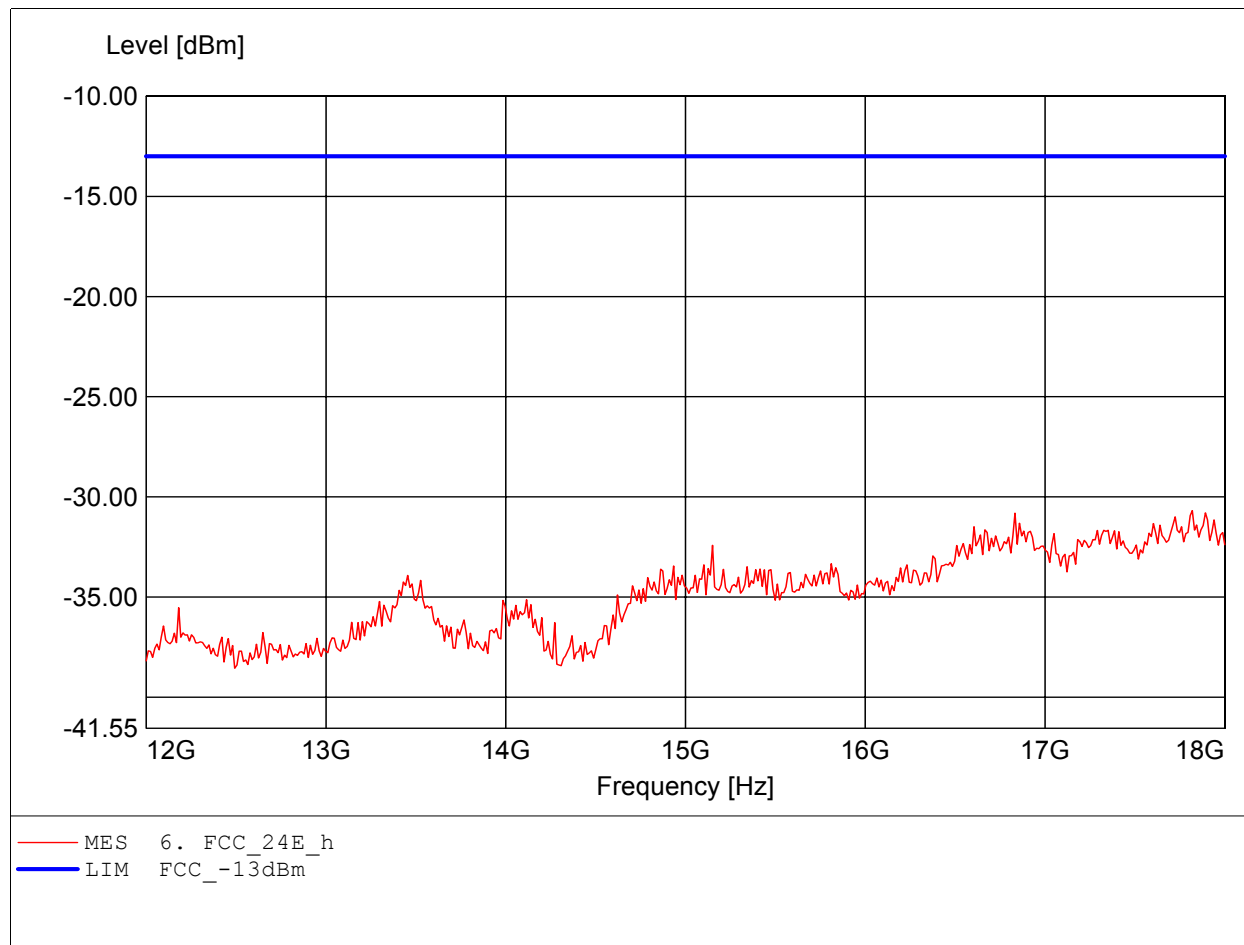
Order Number : W6M20612-7664 1900 band ch810
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.463GHz, Pmax: -32.92dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

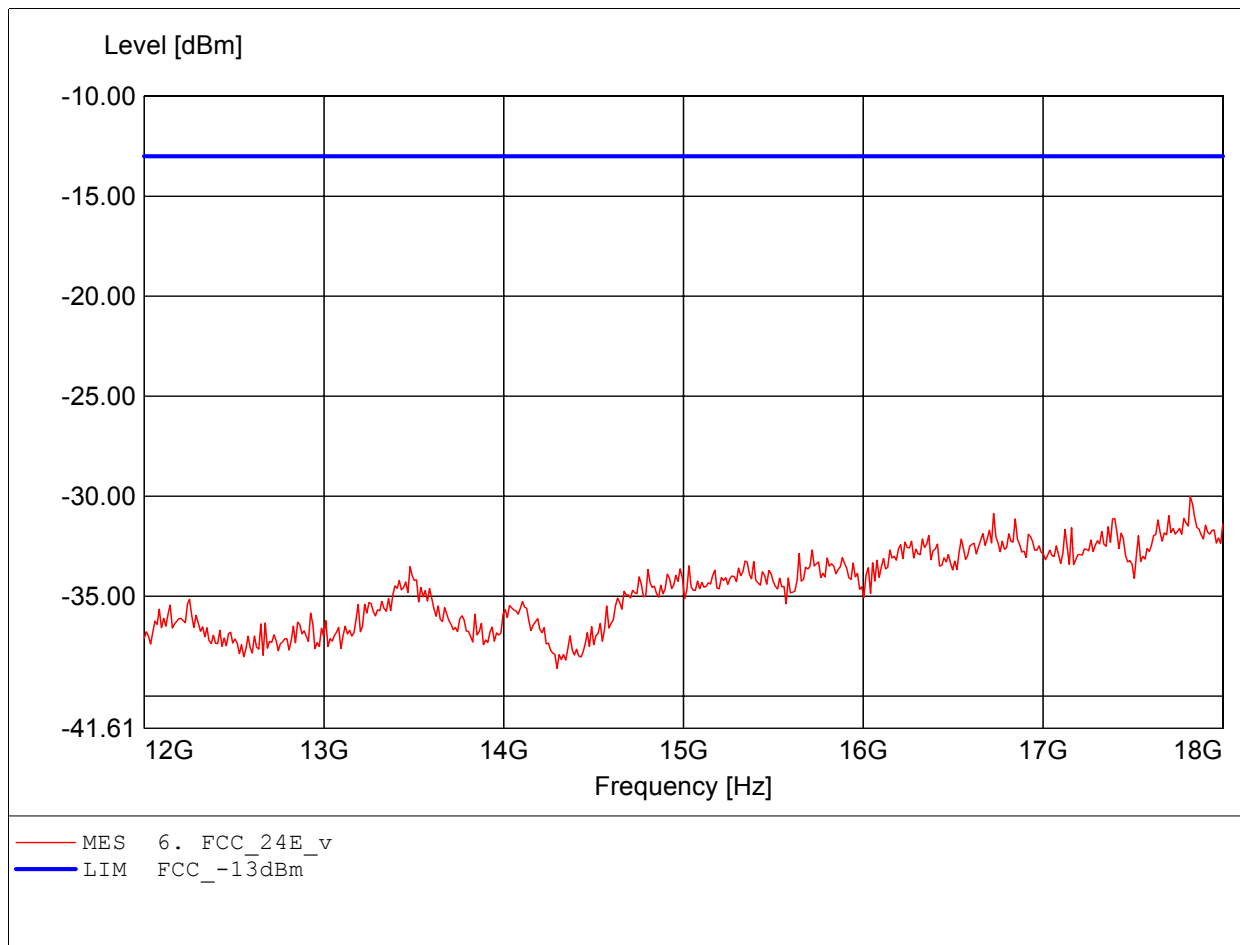
Order Number : W6M20612-7664 1900 band ch810
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 17.820GHz, Pmax: -30.69dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

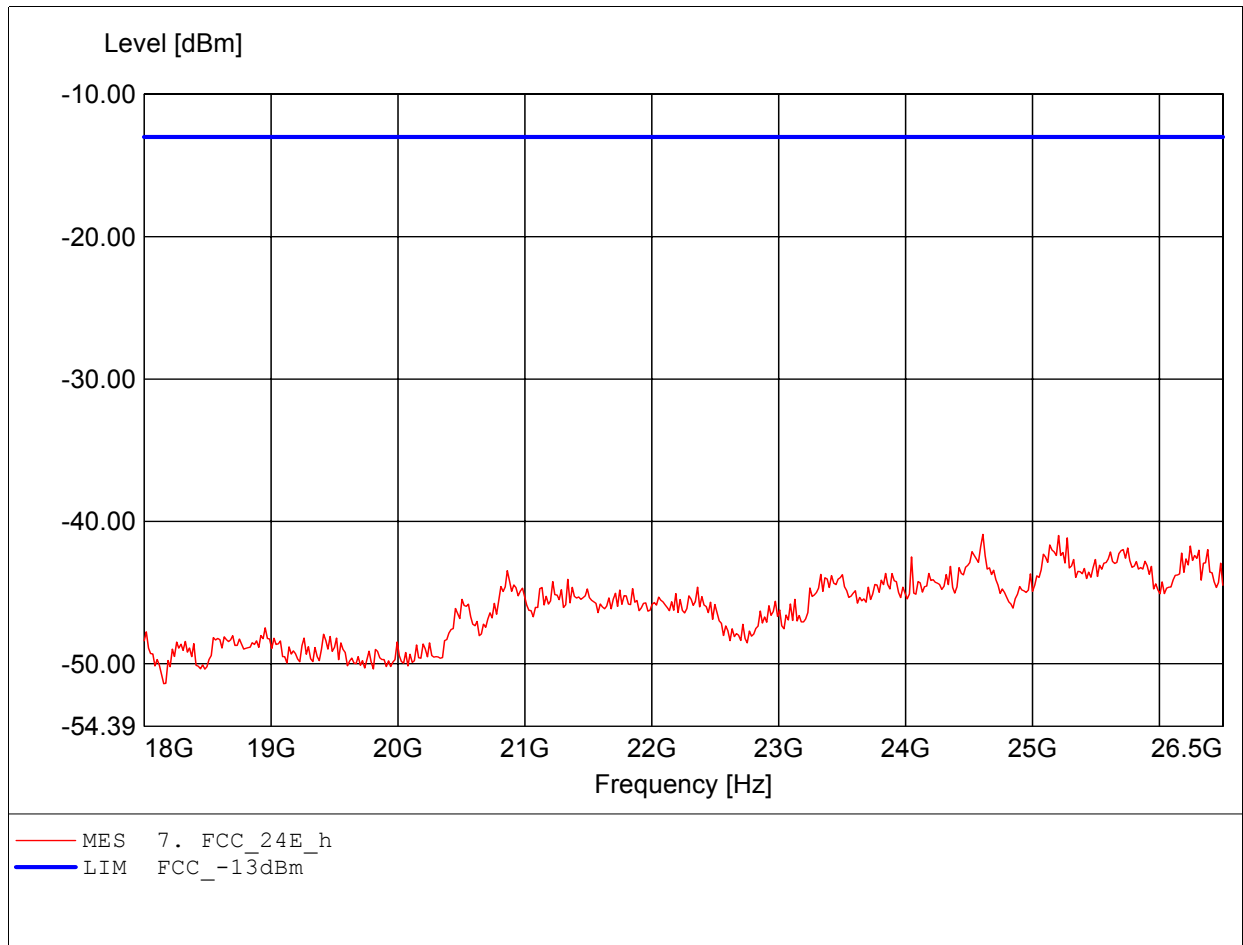
Order Number : W6M20612-7664 1900 band ch810
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 17.820GHz, Pmax: -30.01dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

Order Number : W6M20612-7664 1900 band ch810
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 24.609GHz, Pmax: -40.91dBm, RBW: 1MHz



Radiated Emissions Tx

FCC RULES PART 24 SUBPART E

Order Number : W6M20612-7664 1900 band ch810
Test Site / Operator: ETS / Derek
Temperature:: Temp.: 23.9°C
according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 25.154GHz, Pmax: -40.97dBm, RBW: 1MHz

