

ETS Dr.GenZ Taiwan PS Co., LTD.

FCC Registration No.: 930600

Industry Canada filed test laboratory Reg. No. IC 5679

Accredited Testing Laboratory



A2LA Cert.No.: 2300.01

PTCRB Accredited Type Certification Test House

FCC

TEST - REPORT

FCC RULES PARTS 74 Subpart H, Section 74.861

FCC ID: QDVUR-M256LC

Test report no.: W6M20607-7162-C-1

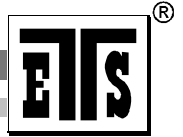
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FCC ID: QDVUR-M256LC

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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has Passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

The test report may only be reproduced or published in full.

Reproduction or publication of extracts from the report requires the prior written approval of the ETS DR. GENZ TAIWAN PS CO., LTD.

Tester:

August 7, 2006

Jay Chaing

Date

ETS-Lab.

Name

Signature

Technical responsibility for area of testing:

August 7, 2006

Steven Chuang

Date

ETS

Name

Signature

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1.2 Testing laboratory

1.2.1 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

1.2.2 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

1.3 Details of approval holder

Name	: NINGBO PROMIC TECHNOLOGY CO., LTD.
Street	: NO.5, NINGBO FREE TRADE ZONE, WEST AREA, NINGBO
Town	: ./.
Country	: ZHEJIANG, P.R.C.
Telephone	: +86-574-8686-0690
Fax	: +86-574-8686-0689

Registration number: W6M20607-7162-C-1
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1.4 Application details

Date of receipt of application : July 12, 2006
Date of receipt of test sample : July 13, 2006
Date of test : from July 14, 2006 to August 7, 2006

1.5 General information of Test item

Type of test item : Wireless Microphone
Model Number : UR-M256LC
Brand Name : Promic
Serial number : without
Photos : see Annex

Technical data

Frequency band :

Frequency(MHz)	TV Band	Used Band
26.100-26.480	☐	☐
54.000-72.000	☒	☐
76.000-88.000	☒	☐
161.625-161.775	☐	☐
174.000-216.000	☐	☐
450.000-451.000	☐	☐
455.000-456.000	☐	☐
470.000-488.000	☐	☐
488.000-494.000	☒	☐
494.000-608.000	☒	☐
614.000-806.000	☒	☒
944.000-952.000	☐	☐

Frequency (ch A) : 615MHz
Frequency (ch B) : 710MHz
Frequency (ch C) : 805MHz

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Antenna Type : integral
Antenna Gain : 0 dBi
Power supply : 9VDC (Battery)
Operation modes : Simplex

Manufacturer:
(if applicable)

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

1.6 Test standards

Technical standard : FCC Part 74 Subpart H , section 74.861
Additional information : none

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



or

The deviations as specified in 2.5 were ascertained in the course of the tests performed.



2.2 Test environment

Temperature : 23 °C
Relative humidity content : 20 ... 75 %
Air pressure : 86-103 KPa

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2.3 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2005/10/27	2006/10/26
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2005/10/25	2006/10/24
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2005/10/21	2006/10/20
ETSTW-CE 006	IMPULS-BEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2004/11/11	2006/11/10
ETSTW-CE 008	ABSORBING CLAMP	MDS 21	3469	ABSORPTIONS- MESSWANDLER- ZANGE	2005/10/24	2007/10/23
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2005/8/18	2006/8/17
ETSTW-CE 011	Power Line Conducted Emission Only	None	None	ETS	2005/10/25	2006/10/24
ETSTW-CE 012	Dual-Phase-V-Network	NNB-2/16Z	03/10201	Telemeter	2006/6/13	2007/6/12
ETSTW-RE 002	Function Generator	33220A	MY43004982	Agilent	2005/10/14	2007/10/13
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2005/10/24	2006/10/23
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2005/10/29	2006/10/30
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2005/10/16	2006/10/15
ETSTW-RE 010	PROGRAMMABLE LINEAR POWER SUPPLY	LPS-305	30503070181	MOTECH	Function Test	
ETSTW-RE 011	PROGRAMMABLE LINEAR POWER SUPPLY	LPS-305	30503070165	MOTECH	Function Test	
ETSTW-RE 017	ANTENNA	HL025	352886/001	R&S	2006/5/4	2008/5/3
ETSTW-RE 018	ANTENNA	AT4560	27212	AR	2004/11/8	2007/11/7
ETSTW-RE 021	SWEEP GENERATOR	SWM05	835130/010	R&S	2005/10/14	2006/10/13
ETSTW-RE 022	AMPLIFIER	8447D	2944A09837	Agilent	2005/10/14	2006/10/13
ETSTW-RE 027	Passive Loop Antenna	6512	34563	EMCO	2004/6/30	2007/6/29
ETSTW-RE 028	Log-Periodic DipoleArray Antenna	3148	34429	EMCO	2006/5/26	2008/5/25
ETSTW-RE 029	Biconical Antenna	3109	33524	EMCO	2006/5/26	2008/5/25
ETSTW-RE 030	Double-Ridged Waveguide Horn Antenna	3117	35224	EMCO	2006/5/3	2008/5/2
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2005/10/17	2006/10/16
ETSTW-RE 033	4CH 1GHz 5GS/s DSO	WAVERUNNER 6100A	LCRY0604P14508	LeCory	2005/8/11	2006/8/10
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2005/10/17	2006/10/16
ETSTW-RE 037	Log-Periodic DipoleArray Antenna	3148	00034546	EMCO	2004/11/18	2006/11/17
ETSTW-RE 038	Log-Periodic DipoleArray Antenna	3148	00034547	EMCO	2004/11/18	2006/11/17
ETSTW-RE 039	Biconical Antenna	3110B	41760	EMCO	2004/11/18	2006/11/17
ETSTW-RE 040	Biconical Antenna	3110B	41761	EMCO	2004/11/18	2006/11/17

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ETSTW-RE 042	ANTENNA	HK116	100172	R&S	2005/1/14	2007/1/13
ETSTW-RE 043	ANTENNA	HL223	100166	R&S	2006/5/8	2008/5/7
ETSTW-RE 044	ANTENNA	HL050	100094	R&S	2006/5/29	2008/5/28
ETSTW-RE 048	Triple Loop Antenna	HXYZ 9170	HXYZ 9170-134	Schwarzbeck	2005/3/22	2008/3/21
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2005/5/19	2007/5/18
ETSTW-RE 055	SPECTRUM ANALYZER	FSU-26	200074	R&S	2005/9/6	2006/9/5
ETSTW-EMI 001	HARMONICS 1000	HAR1000-1P	93	EMC-PARTNER	2005/9/12	2006/9/11
ETSTW-EMS 002	Frequency Converter	YF-6020	0308014	T-Power	Function Test	
ETSTW-GSM 01	SIM Simulator	IT3	B2004-50106	ORGA	2005/9/15	2006/9/14
ETSTW-GSM 02	Universal Radio Communication Tester	CMU 200	103489	R&S	2005/11/15	2006/11/14
ETSTW-GSM 03	Agilent 8960 Test Set 1	E5515C	GB44052675	Agilent	2006/7/13	2008/7/12
ETSTW-GSM 04	Agilent 8960 Test Set 2	E5515C	GB44052665	Agilent	2006/7/13	2008/7/12
ETSTW-GSM 05	Agilent 8960 Test Set 3	E5515C	GB44052652	Agilent	2006/7/16	2008/7/15
ETSTW-GSM 06	Agilent 8960 Test Set 4	E5515C	GB44052684	Agilent	2006/7/16	2008/7/15
ETSTW-GSM 07	Agilent 8960 Test Set 5	E5515C	GB44052658	Agilent	2006/7/13	2008/7/12
ETSTW-GSM 08	Agilent 8960 Test Set 6	E5515C	GB44052666	Agilent	2006/7/16	2008/7/15
ETSTW-GSM 10	Combiner Wessex / Anite	B4605/100	053	Wessex / Anite	2006/7/13	2008/7/12
ETSTW-GSM 11	GSM 850,900,1800,1900 Test system	TS8950G		R&S	2005/11/1	2006/10/31
ETSTW-GSM 12	Acoustical Calibrator	4231	2463874	Brüel&Kjær	2005/10/31	2006/10/30
ETSTW-GSM 16	TEMP.&HUMIDITY CHAMBER	GTH-120-40-1P-U	MAA0501002	GIANT FORCE	2005/12/29	2006/12/28
ETSTW-GSM 18	AUDIO ANALYZER	UPL16	100173	R&S	2005/10/29	2006/10/28
ETSTW-GSM 24	Vibration Testing System	VS-100V	5494	Vibration	2005/12/20	2006/12/19

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2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2003 using a 50 μ H LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.4-2003 employing a spectrum analyzer. 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 ambient temperature of the UUT was 23°C with a humidity of 40 %.

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.
- (4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1)-(a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this Section, whichever is the higher frequency range of investigation.

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

Measurements were made by at the registered open field test site located at The Registration Number:

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.

ANTENNA & GROUND:

This unit uses integral antenna. (see photo).

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3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
RF Power Output	2.1046 (a); 74.861 (e)(1)	☒	☒	☐
Modulation Deviation	2.1047 (b); 74.861 (e)(2)	☒	☒	☐
Audio Frequency Response	2.1047 (a)	☒	☒	☐
Occupied Bandwidth / Emission Mask	2.1049 (c)(1); 74.861 (e)(5)	☒	☒	☐
Spurious Emissions at Antenna Terminals	2.1051 74.861(e)(6)	☒	☒	☐
Radiated Spurious Emission	2.1053 74.861(e)(6)	☒	☒	☐
Line Conducted Emissions	15.207	☐	☐	☐
Frequency Stability vs. Temperature	2.1055 (b); 74.861(e)(4)	☒	☒	☐
Frequency Stability vs. Voltage	2.1055 (a)(1); 74.861 (e)(4)	☒	☒	☐

The follows is intended to leave blank.

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4 RF Power Output (conducted) , FCC 2.1046 (a) ; 74.861 (e)

4.1 Test procedure

This transmitter output was connected to a calibrated coaxial attenuator, the other end of which was connected to a spectrum analyzer. Transmitter output was derived with the spectrum analyzer in dBm.

The power output at the transmitter antenna port was determined by assign the value of the attenuator to the spectrum analyzer reading.

An HP power meter was also used to measure the RF power.

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.

4.2 Test Results

Frequency Channel	Peak Output Power (dBm)
615 MHz	--
710 MHz	--
805 MHz	--

Limits:

LPAS operating in TV bands	
Frequency [MHz]	Conducted output power [mW]
54 – 72 76 – 88 174 - 216	50 (17 dBm)
470 – 608 614 - 806	250 (24 dBm)

LPAS operating in other than TV bands	
Conducted power [W]	1

Comment : This test is not required.

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5 Radiated Power

5.1 Test 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.

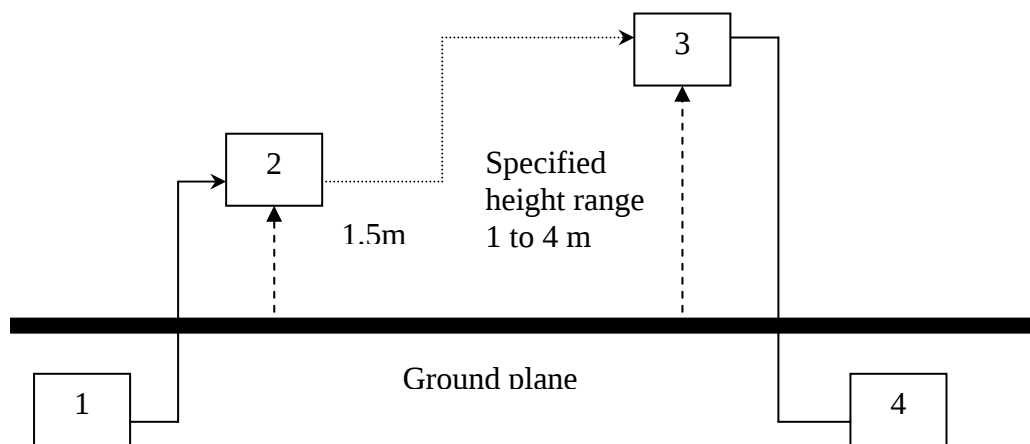
Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

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.

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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 :

Now 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.

5.2 Test results

Radiated Power (dBm)	
615 MHz	5.08
710 MHz	-0.35
805 MHz	1.84

Comment: see attached diagrams.

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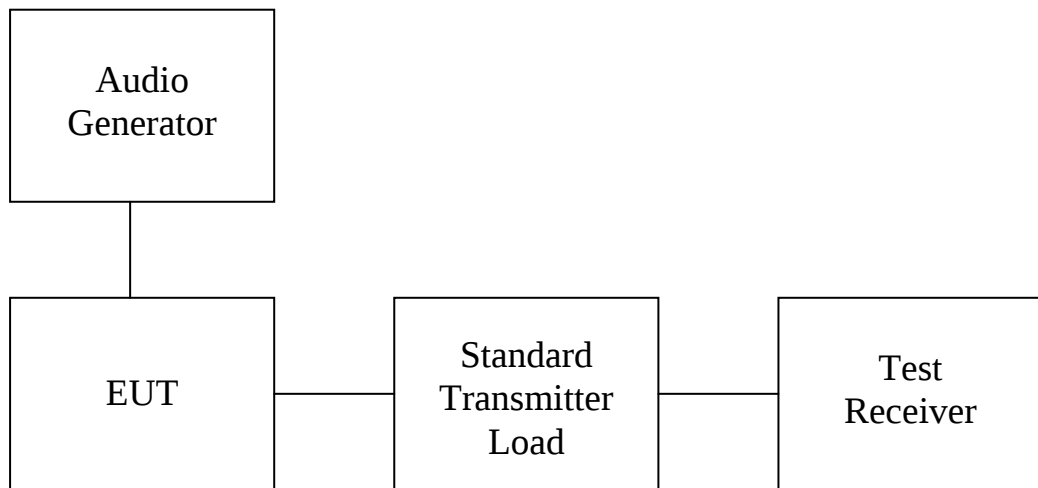
6 Modulation Deviation , FCC 2.1047 (b) ; 74.861(e)

6.1 Test procedure

Modulation limiting is the transmitter circuit's ability to limit the transmitter from producing deviations in excess of rated system deviation.

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.



6.2 Test results

Limits : ± 75 kHz

Comment : see attached diagrams.

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7. Audio frequency response , FCC 2.1047 (a)

7.1 Test procedure

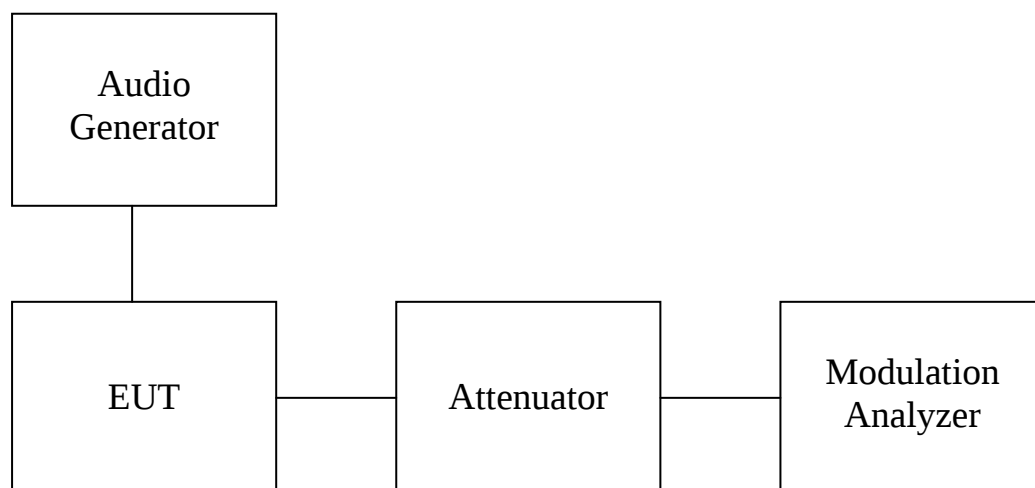
The audio frequency response is the degree of closeness to which the frequency deviation of the transmitter follows a prescribed characteristic.

The frequency response of the audio modulation part is measured over a frequency range of 100 Hz to 5000Hz.

For 1000Hz tone reference signal the audio generator level is adjusted to get 20% of the rated system deviation.

The deviations obtained over the frequency range from 100Hz to 5000Hz are recorded and compared with the reference deviation as follows :

$$\text{Audio Frequency Response} = 20 \log [\text{DEV}_{\text{Freq}} / \text{DEV}_{\text{ref}}].$$



7.2 Test results

Comment : see attached diagrams.

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8 Occupied Bandwidth/Emission Mask, FCC 2.1049 (c); 74.861 (e)(5)

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.

8.1 Test procedure

The RF output of the transceiver was connected to the input of the spectrum analyzer through sufficient attenuation.

Occupied Bandwidth was measured with a occupied bandwidth function of the analyzer.

The near the carrier emissions are measured by normal power measurement function of the analyzer.

8.2 Test Results

1000 Hz Modulation

Occupied Channel Bandwidth (kHz)	
Channel A	53.205
Channel B	50.320
Channel C	59.935

2500 Hz Modulation

Occupied Channel Bandwidth (kHz)	
Channel A	66.666
Channel B	62.820
Channel C	75.000

Comment : see attached diagram in appendix.

For near the carrier emissions see attached diagrams.

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9. Spurious Emissions at Antenna Terminals FCC2.1051 ; 74.861 (e)

9.1 Test procedure

This transmitter output was connected to a calibrated coaxial attenuator, the other end of which was connected to a spectrum analyzer. 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 high-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.

9.2 Test Results

Summary table with conducted data of the test plots for Carrier Test Frequency 615 MHz

Frequency Marker Indication [MHz]	Indication Power Level [dBm]	Compliance Limit [dBm]	Margin
193.549	-43.70	-13	30.70
378.205	-45.68	-13	32.68
1225.961	-43.21	-13	30.21
4480.769	-46.00	-13	33.00

Summary table with conducted data of the test plots for Carrier Test Frequency 710 MHz

Frequency Marker Indication [MHz]	Indication Power Level [dBm]	Compliance Limit [dBm]	Margin
93.990	-46.10	-13	33.1
408.974	-46.41	-13	33.41
2129.807	-44.50	-13	31.5
6532.051	-46.59	-13	33.59

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Summary table with conducted data of the test plots for Carrier Test Frequency 805 MHz

Frequency Marker Indication [MHz]	Indication Power Level [dBm]	Compliance Limit [dBm]	Margin
193.549	-44.86	-13	31.86
343.589	-46.34	-13	33.34
2413.461	-40.42	-13	27.42
6628.205	-45.18	-13	32.18

9.3 Limit

Compliance with § 74.861 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 table :

Maximum transmitter output power	5.08 dBm
Required attenuation	$43 + 10 \log_{10} 0.00322W = 18.07 \text{ dB}$
Maximum transmitter output power	5.08 dBm
<u>Required attenuation</u>	<u>18.07 dB</u>
Compliance limit	-13 dBm

Comment : see attached diagrams in appendix.

Registration number: W6M20607-7162-C-1
FCC ID: QDVUR-M256LC

10 Radiated Spurious Emission , FCC 2.1053 ; 74.861 (e)

10.1 Test procedure

The EUT was positioned on a non-conductive turntable , 0.8m above the ground plane.

The radiated emission at the fundamental frequency was measured at 3 m 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.

ERP was measured using a substitution method. The EUT was replaced by reference antenna connected to a signal generator.

The test of spurious radiated emission have been carried out with the ESK-Software from Rode & Schwarz. The measurements below 1GHz were performed with a measurement bandwidth of 100kHz, above 1GHz with a bandwidth of 1 MHz.

Spurious emission limits near the carrier are defined by a emission mask. This measurements are done in conducted mode.

10.2 Test Results

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

The measurement diagrams show that all significant spurs are well below the limit line.

Summary table with radiated data of the test plots for Carrier Test Frequency

615 MHz

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBm)	Correction Factor (dB)	Detector	Test Result (dBm)	Compliance Limit (dBm)	Margin (dB)	Table Azimuth (degree)	Antenna Height (cm)
H	1228.456	-34.97	-7.81	PK	-42.78	-13.0	29.78	132	302
	1841.683	-35.65	4.68	PK	-40.33	-13.0	27.33	256	164
	2460.921	-43.74	0.56	PK	-43.18	-13.0	30.18	192	244
	3074.148	-40.81	-0.21	PK	-41.02	-13.0	28.02	238	198

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBm)	Correction Factor (dB)	Detector	Test Result (dBm)	Compliance Limit (dBm)	Margin (dB)	Table Azimuth (degree)	Antenna Height (cm)
V	1228.456	-36.84	-7.81	PK	-44.65	-13.0	31.65	134	305
	1841.683	-39.11	-4.68	PK	-43.79	-13.0	30.79	249	166
	2460.921	-45.11	0.56	PK	-44.55	-13.0	31.55	195	247
	3074.148	-42.08	-0.21	PK	-42.29	-13.0	29.29	241	201

Registration number: W6M20607-7162-C-1
FCC ID: QDVUR-M256LC

Summary table with radiated data of the test plots for Carrier Test Frequency

710 MHz

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBm)	Correction Factor (dB)	Detector	Test Result (dBm)	Compliance Limit (dBm)	Margin (dB)	Table Azimuth (degree)	Antenna Height (cm)
H	2130.260	-32.99	-3.18	PK	-36.17	-13.0	23.17	138	304
	2839.679	-38.46	-0.13	PK	-38.59	-13.0	25.59	251	238
	3555.110	-43.87	0.76	PK	-43.11	-13.0	30.11	205	169
	1414.829	-45.56	-8.68	PK	-54.24	-13.0	41.24	166	307

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBm)	Correction Factor (dB)	Detector	Test Result (dBm)	Compliance Limit (dBm)	Margin (dB)	Table Azimuth (degree)	Antenna Height (cm)
V	1420.841	-47.36	-8.67	PK	-56.03	-13.0	43.03	164	319
	2130.260	-40.52	-3.18	PK	-43.76	-13.0	30.76	135	308
	2839.679	-41.71	0.13	PK	-41.58	-13.0	28.58	253	240
	3555.110	-47.05	0.76	PK	-46.29	-13.0	33.29	207	172

Summary table with radiated data of the test plots for Carrier Test Frequency

805 MHz

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBm)	Correction Factor (dB)	Detector	Test Result (dBm)	Compliance Limit (dBm)	Margin (dB)	Table Azimuth (degree)	Antenna Height (cm)
H	4024.048	-45.74	3.44	PK	-42.30	-13.0	29.30	268	311
	1607.214	-37.62	-7.04	PK	-44.66	-13.0	31.66	179	178
	2412.825	-38.31	2.01	PK	-36.30	-13.0	23.30	151	243
	3224.448	-35.04	0.31	PK	-34.73	-13.0	21.73	213	285

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBm)	Correction Factor (dB)	Detector	Test Result (dBm)	Compliance Limit (dBm)	Margin (dB)	Table Azimuth (degree)	Antenna Height (cm)
V	1607.214	-45.50	-7.04	PK	-52.54	-13.0	39.54	177	175
	2412.825	-44.51	2.01	PK	-42.50	-13.0	29.50	148	239
	3224.448	-46.68	0.31	PK	-46.37	-13.0	33.37	211	187

Registration number: W6M20607-7162-C-1
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10.3 Explanation of test result

The measurements of the spurious emissions at the equipment output terminals were performed pursuant to the test procedure above in order to verify that any emissions are below the limits given by § 74.861 (6).

Calculation of test results :

Such factors like antenna correction , cable loss , 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.

In the Table being listed the critical peak and average value an exhibit the compliance with the above calculated Limits.

10.4 Limits

Compliance with § 74.861 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 table :

Maximum transmitter output power	5.08 dBm
Required attenuation	$43 + 10 \log_{10} 0.00322W = 18.07 \text{ dB}$
Maximum transmitter output power	5.08 dBm
<u>Required attenuation</u>	<u>18.07 dB</u>
Compliance limit	-13 dBm

Comment: see attached diagrams in appendix.

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11 Line Conducted Emission, FCC 15.207

11.1 Test procedure

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transacted first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

11.2 Test Results

Frequency	Max. Level (dB μ V)	
	quasi-peak	average
-- kHz	--	--

Limits:

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

Comment : This is not required the sample is battery used.

Registration number: W6M20607-7162-C-1
FCC ID: QDVUR-M256LC

12 Frequency Stability vs. Temperature , FCC 2.1055 , 74.861 (e)

12.1 Test procedure

The equipment under test was connected to an external DC 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.

12.2 Test Results

615MHz

°C	Frequency Error (kHz)	Frequency Error (ppm)
-30	-2.1	-0.000341
-20	-3.48	-0.000566
-10	-3.82	-0.000621
0	-3.46	-0.000563
10	-4.18	-0.000680
20	-4.27	-0.000694
30	-4.58	-0.000745
40	-4.78	-0.000777
50	-4.6	-0.000748

710 MHz

°C	Frequency Error (kHz)	Frequency Error (ppm)
-30	5.91	0.000832
-20	1.28	0.000180
-10	-3.71	-0.000523
0	-5.71	-0.000804
10	-6.32	-0.000890
20	-8.72	-0.001228
30	-8.28	-0.001166
40	-8.81	-0.001241
50	-8.91	-0.001255

Registration number: W6M20607-7162-C-1
FCC ID: QDVUR-M256LC

805 MHz

°C	Frequency Error (kHz)	Frequency Error (ppm)
-30	-3.79	-0.000471
-20	-1.78	-0.000221
-10	-4.01	-0.000498
0	-7.68	-0.000954
10	-8.02	-0.000996
20	-8.07	-0.001002
30	-8.19	-0.001017
40	-8.31	-0.001032
50	-8.56	-0.001063

Limit : $\pm 0.005\%$

Registration number: W6M20607-7162-C-1
FCC ID: QDVUR-M256LC

13 Frequency Stability vs. Voltage , FCC 2.1055 (d) ; 74.861 (e)

13.1 Test procedure

An external variable DC power supply was connected to the battery terminals of the equipment under test.

For hand carried , battery powered equipment primary supply voltage was reduced to the battery operating end point as specified by the manufacturer. The output frequency was recorded for each battery voltage.

13.2 Test Results

Frequency in MHz	Frequency Error (kHz)	Frequency Error (ppm)
614.996	4	-0.00065
709.992	-8	-0.001127
804.992	-8	-0.000994

Limit : $\pm 0.005\%$

Registration number: W6M20607-7162-C-1
FCC ID: QDVUR-M256LC

Appendix

- A RF Power Output
- B Audio frequency response and Modulation deviation
- C Occupied Bandwidth / Emission Mask
- D Spurious Emissions at Antenna Terminals
- E Radiation Spurious Emission
- F Line Conducted Emissions
- G Frequency Stability vs. Temperature
- H Frequency Stability vs. Voltage
- I Pictures

Registration number: W6M20607-7162-C-1
FCC ID: QDVUR-M256LC

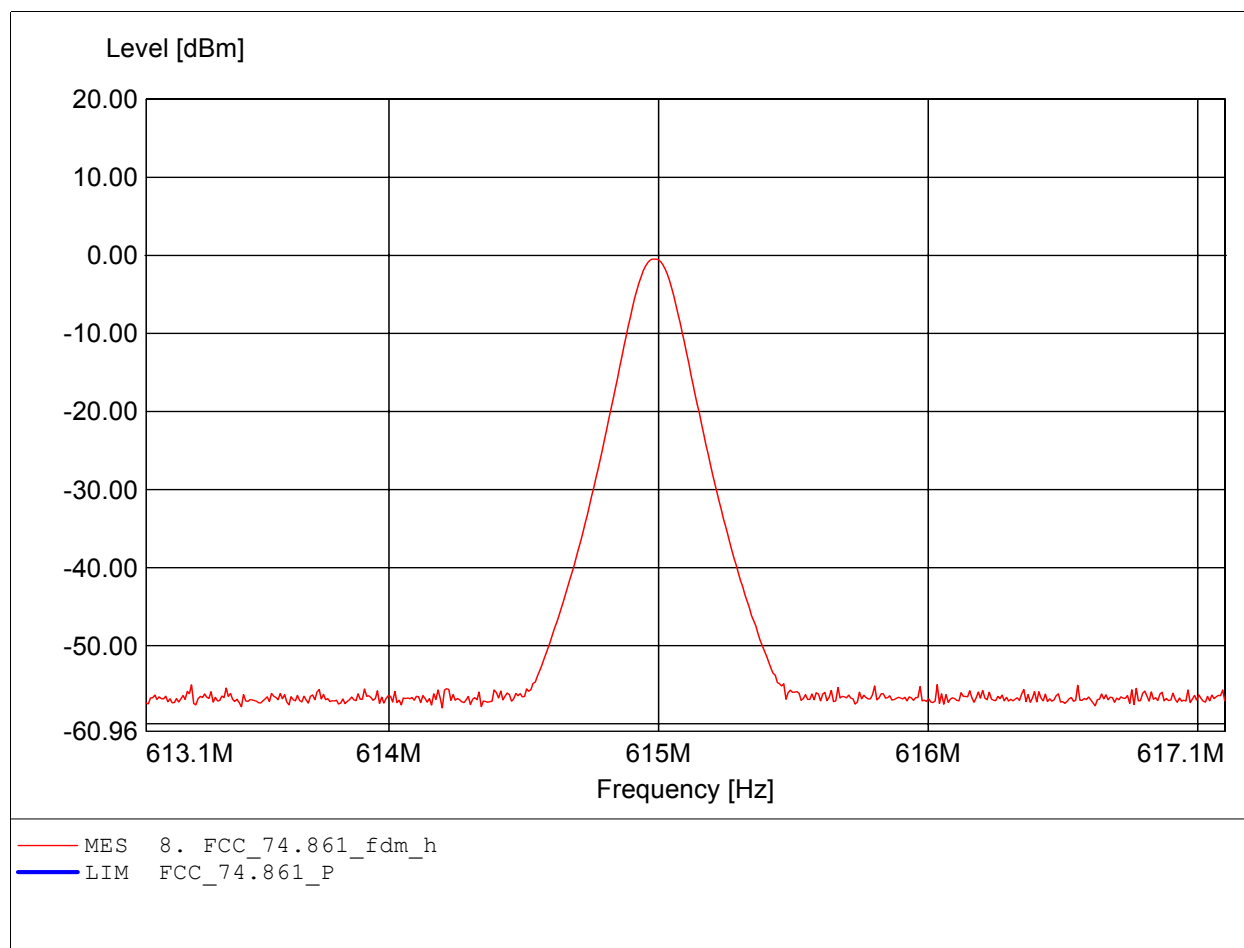
Appendix A

RF Power Output

The measurement diagram are wideband pre-scan results; only for reference.

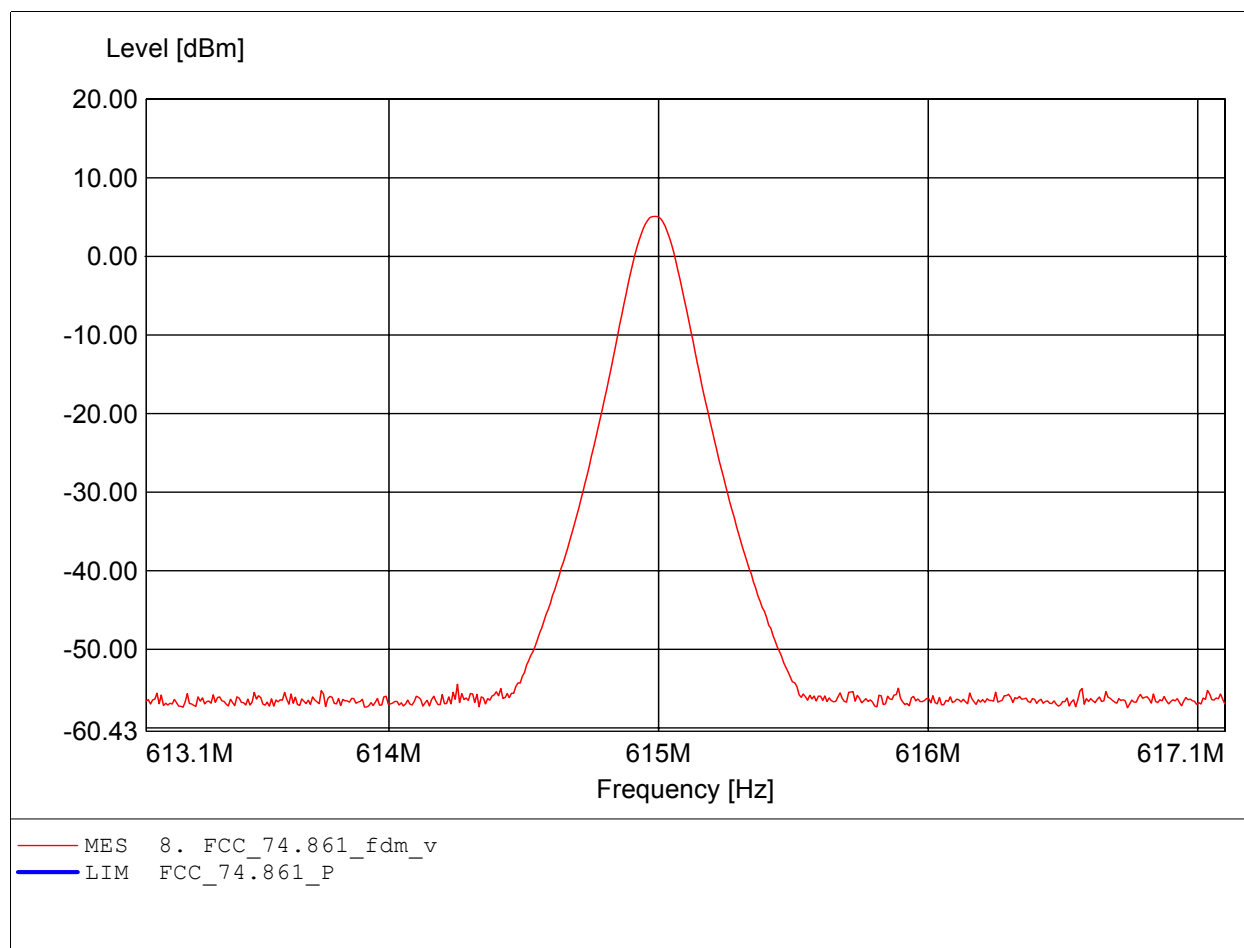
Transmitter carrier power under normal conditions
in according to FCC Part 74.861

Order Number : W6M20607-7162 615.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HL 223
Freq:614.984MHz Pmax:-0.47dBm RBW: 100 kHz



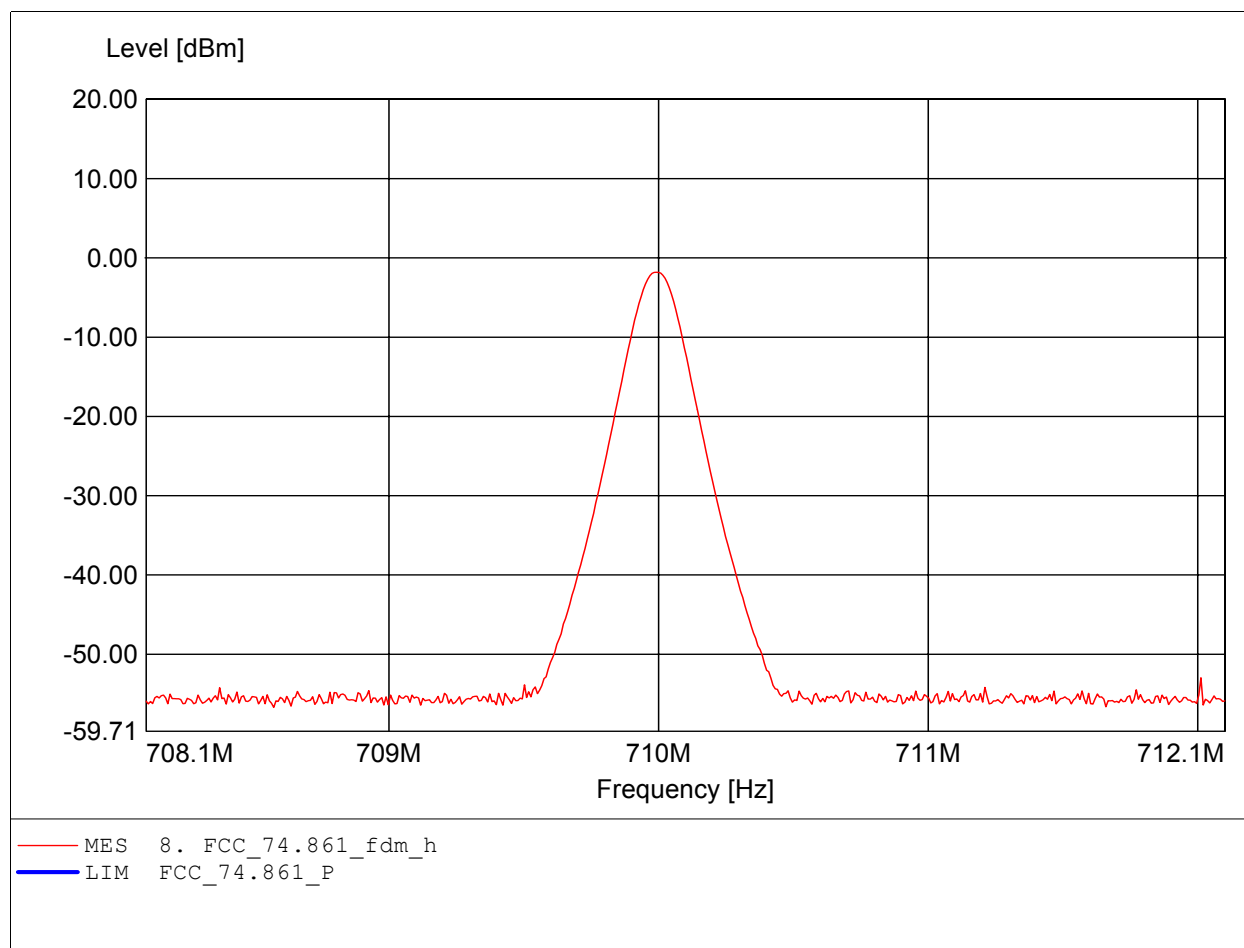
Transmitter carrier power under normal conditions
in according to FCC Part 74.861

Order Number : W6M20607-7162 615.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HL 223
Freq:614.992MHz Pmax:5.08dBm RBW: 100 kHz



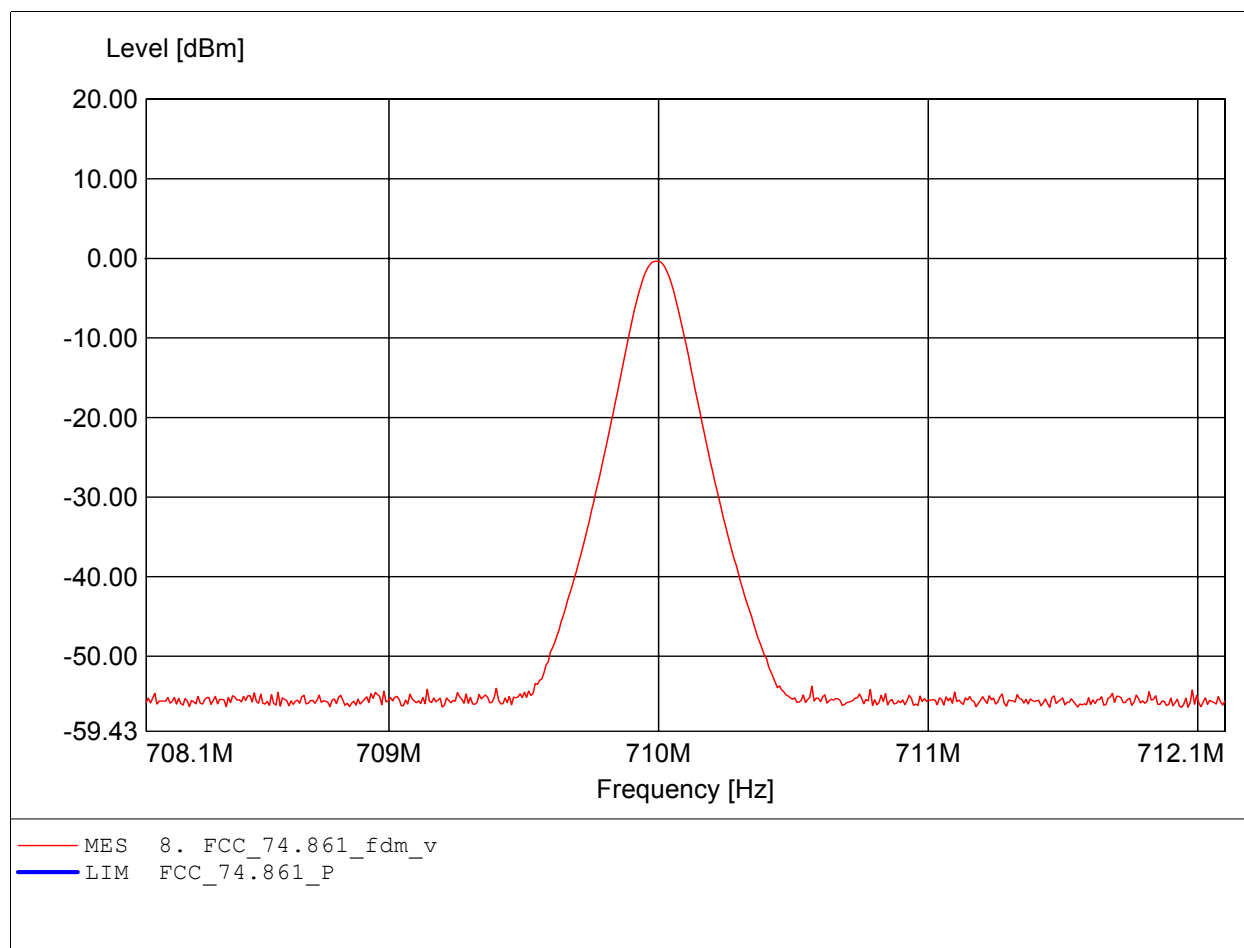
Transmitter carrier power under normal conditions
in according to FCC Part 74.861

Order Number : W6M20607-7162 710.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HL 223
Freq:709.992MHz Pmax:-1.82dBm RBW: 100 kHz



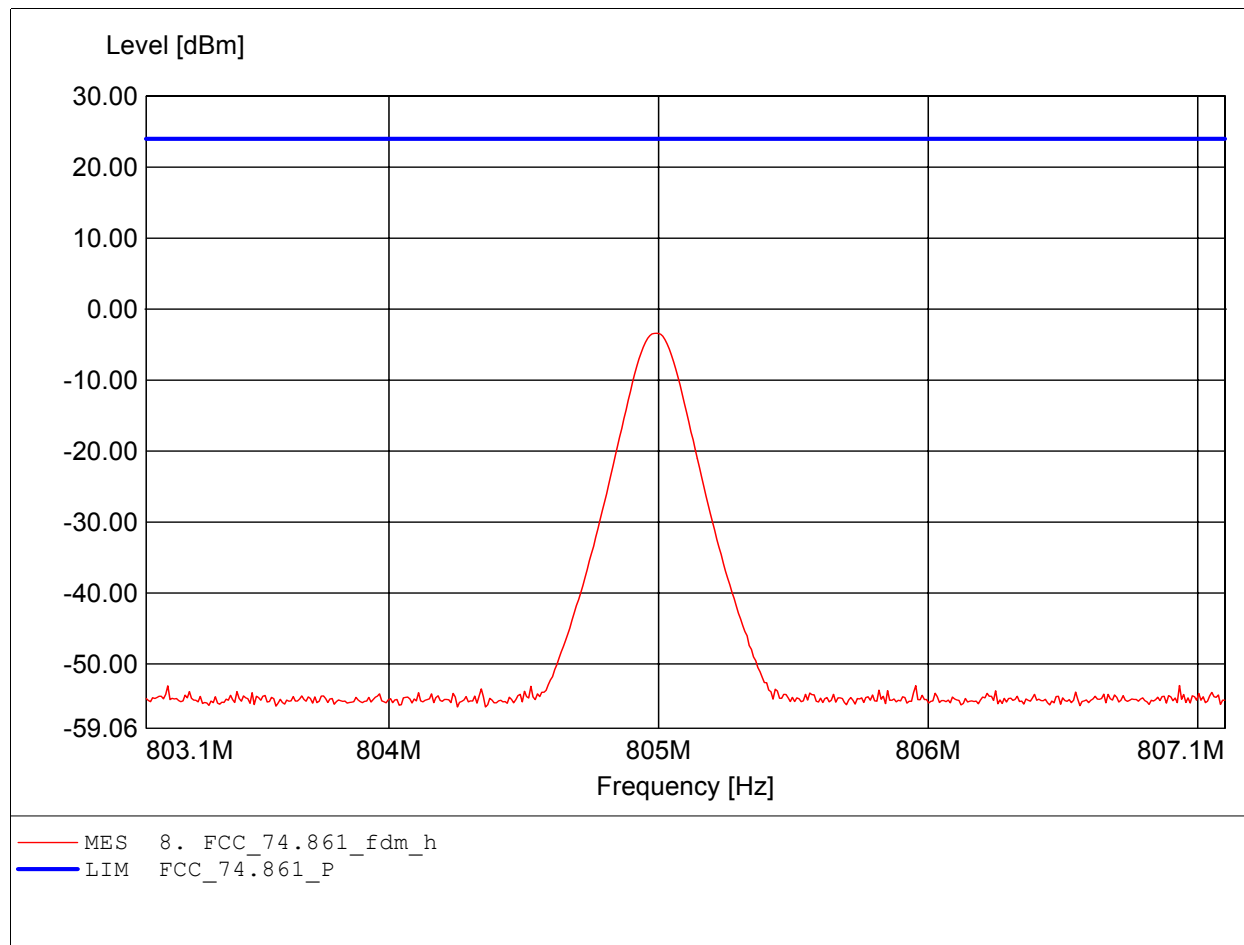
Transmitter carrier power under normal conditions
in according to FCC Part 74.861

Order Number : W6M20607-7162 710.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HL 223
Freq:710.000MHz Pmax:-0.35dBm RBW: 100 kHz



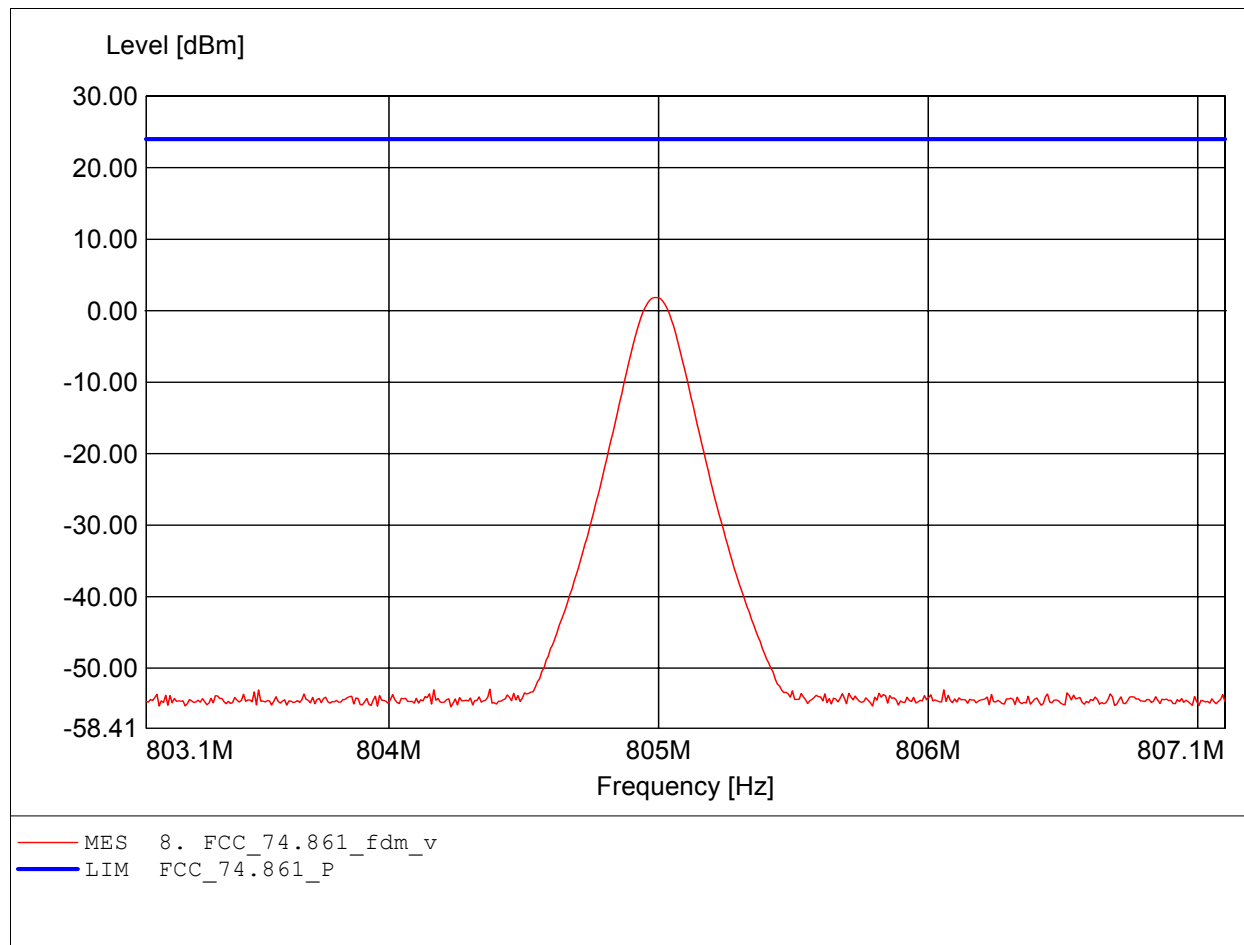
Transmitter carrier power under normal conditions
in according to FCC Part 74.861

Order Number : W6M20607-7162 805.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HL 223
Freq:804.992MHz Pmax:-3.41dBm RBW: 100 kHz



Transmitter carrier power under normal conditions
in according to FCC Part 74.861

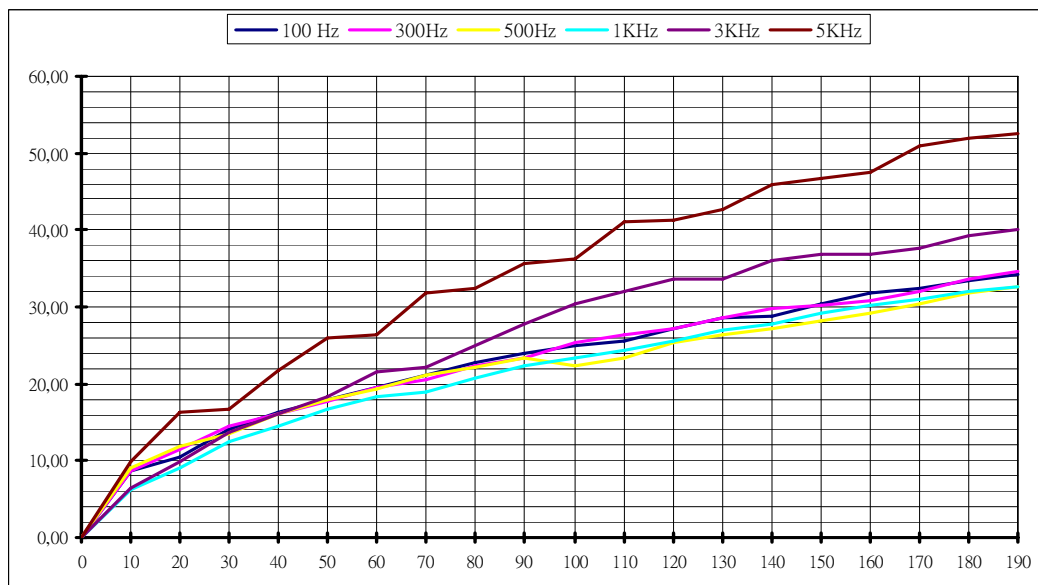
Order Number : W6M20607-7162 805.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HL 223
Freq:804.992MHz Pmax:1.84dBm RBW: 100 kHz



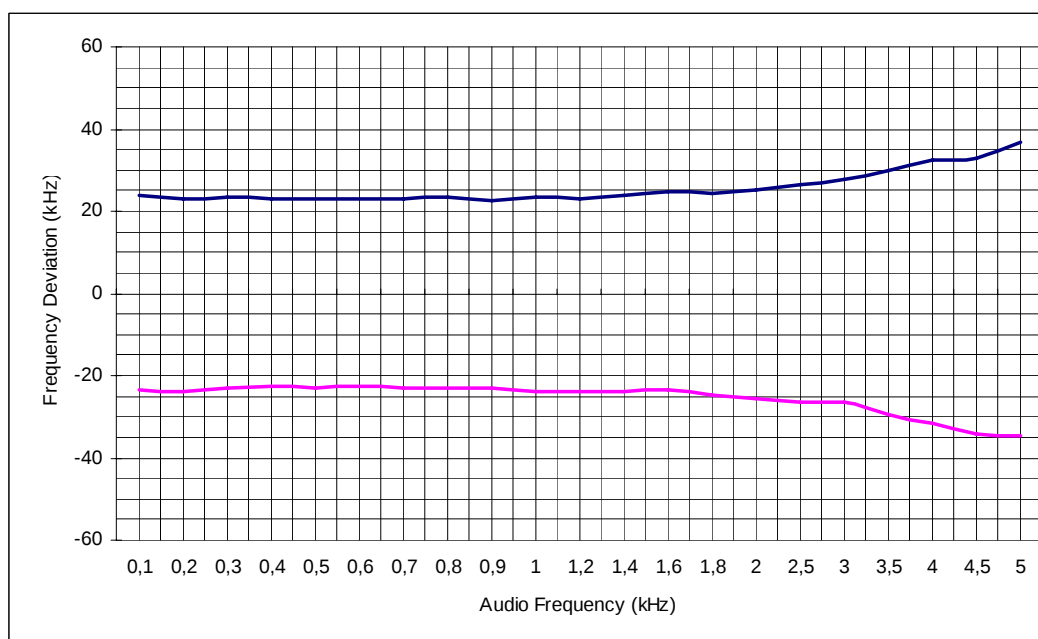
Registration number: W6M20607-7162-C-1
FCC ID: QDVUR-M256LC

Appendix B

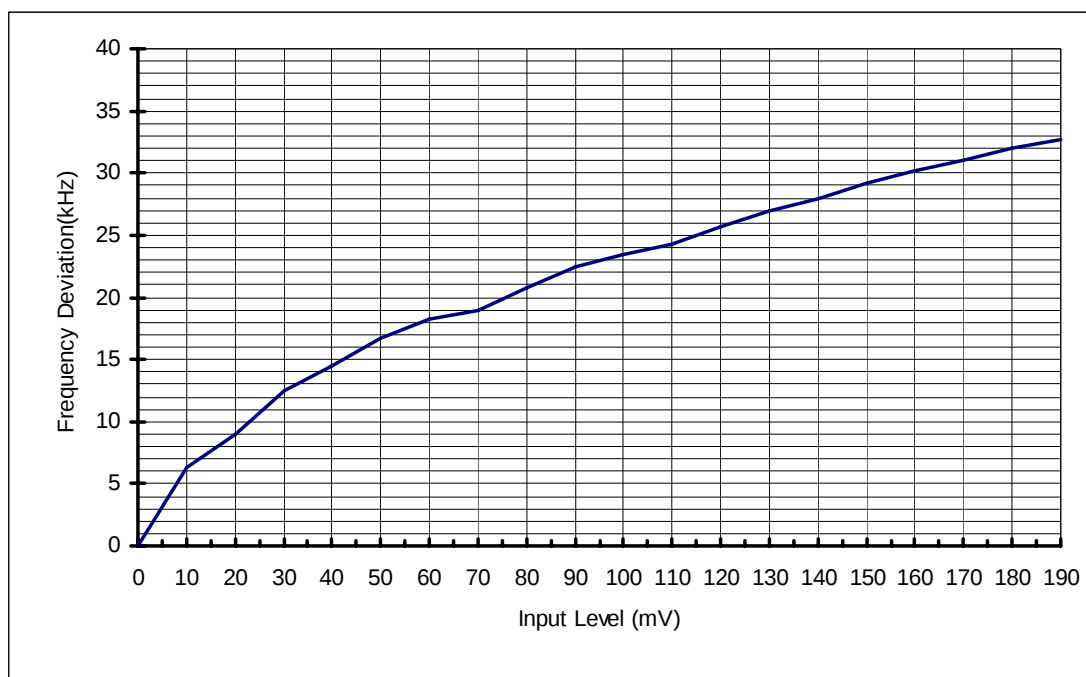
Audio frequency response and Modulation deviation.



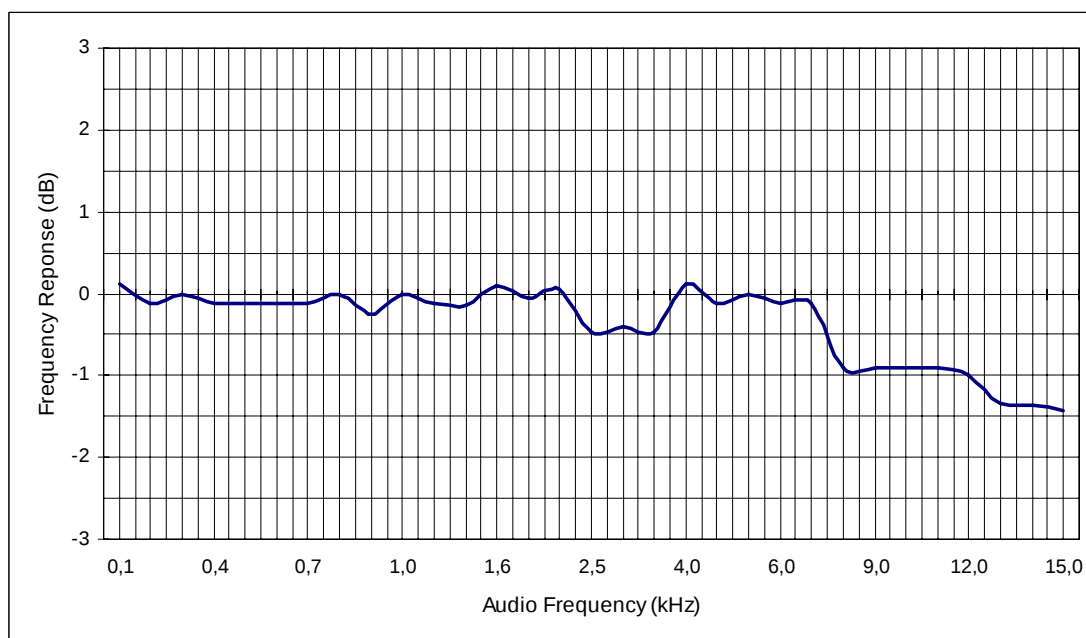
Modulation Chara



Frequency Deviation



FD at 1kHz



Audio Response

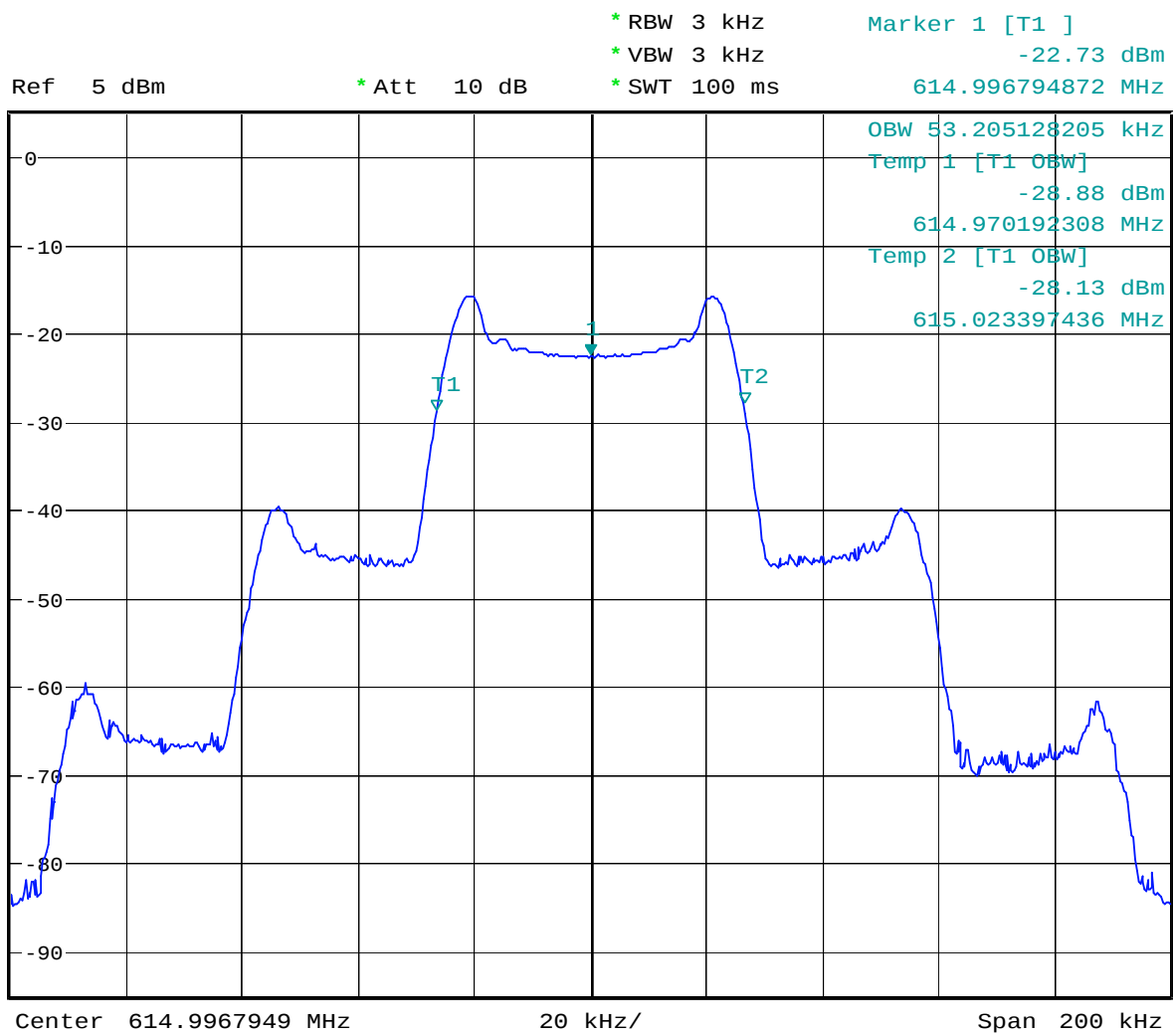
Registration number: W6M20607-7162-C-1
FCC ID: QDVUR-M256LC

Appendix C

Occupied Bandwidth / Emission Mask



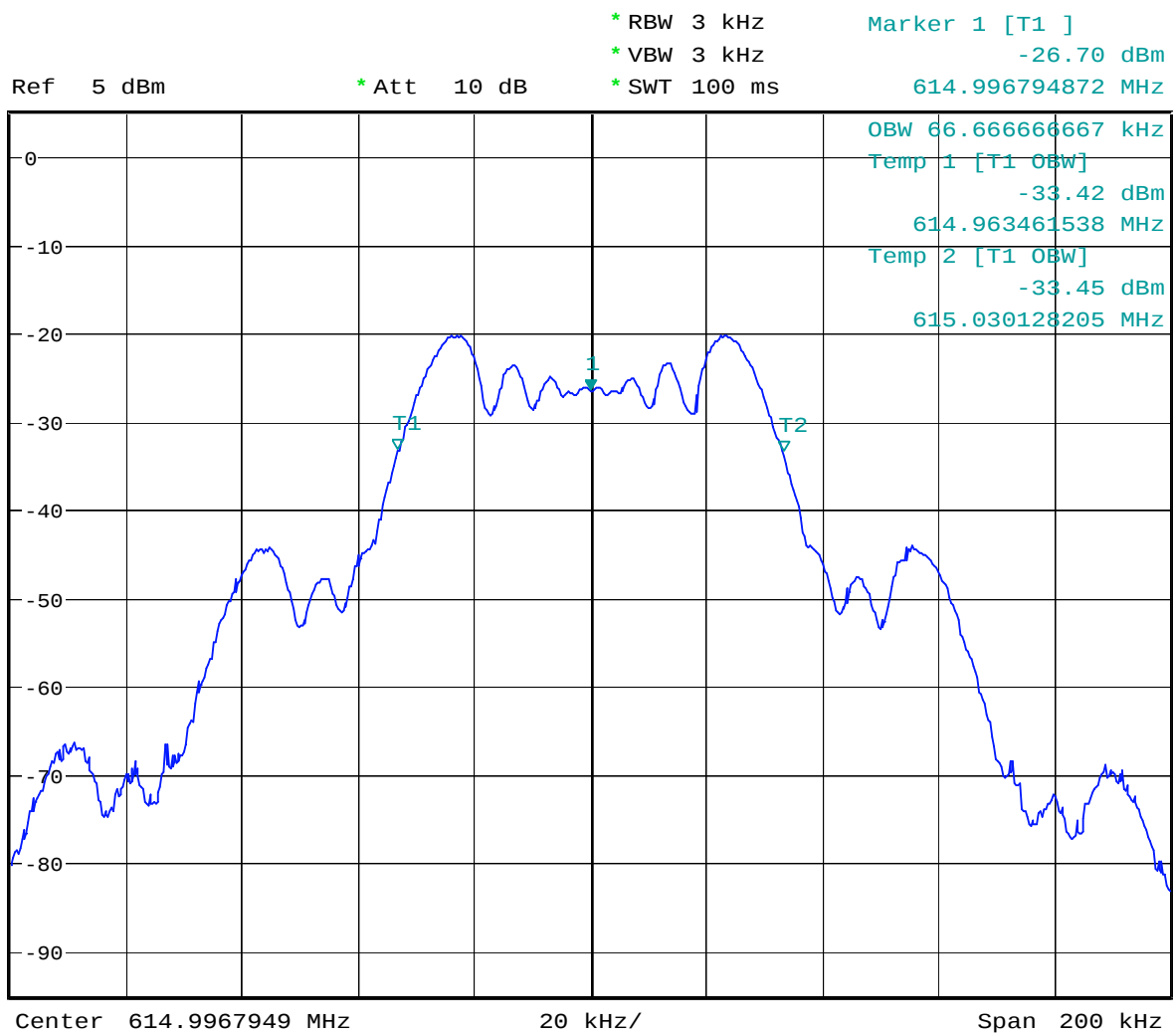
1 PK
MAXH



615MHz WITH 1000Hz MODULATION
Date: 17.JUL.2006 14:23:23



1 PK
MAXH

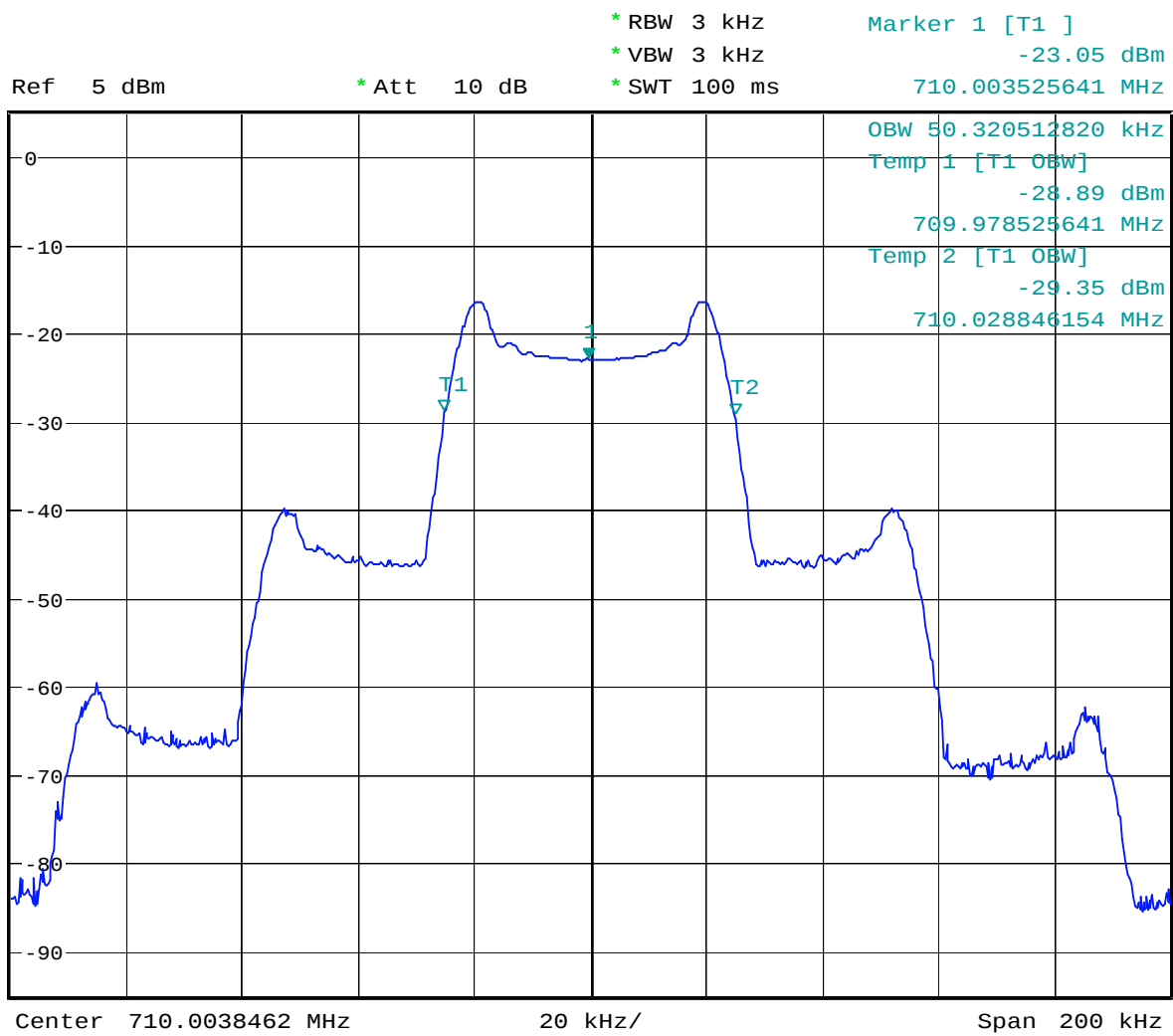


615MHz WITH 2500Hz MODULATION

Date: 17.JUL.2006 14:22:44



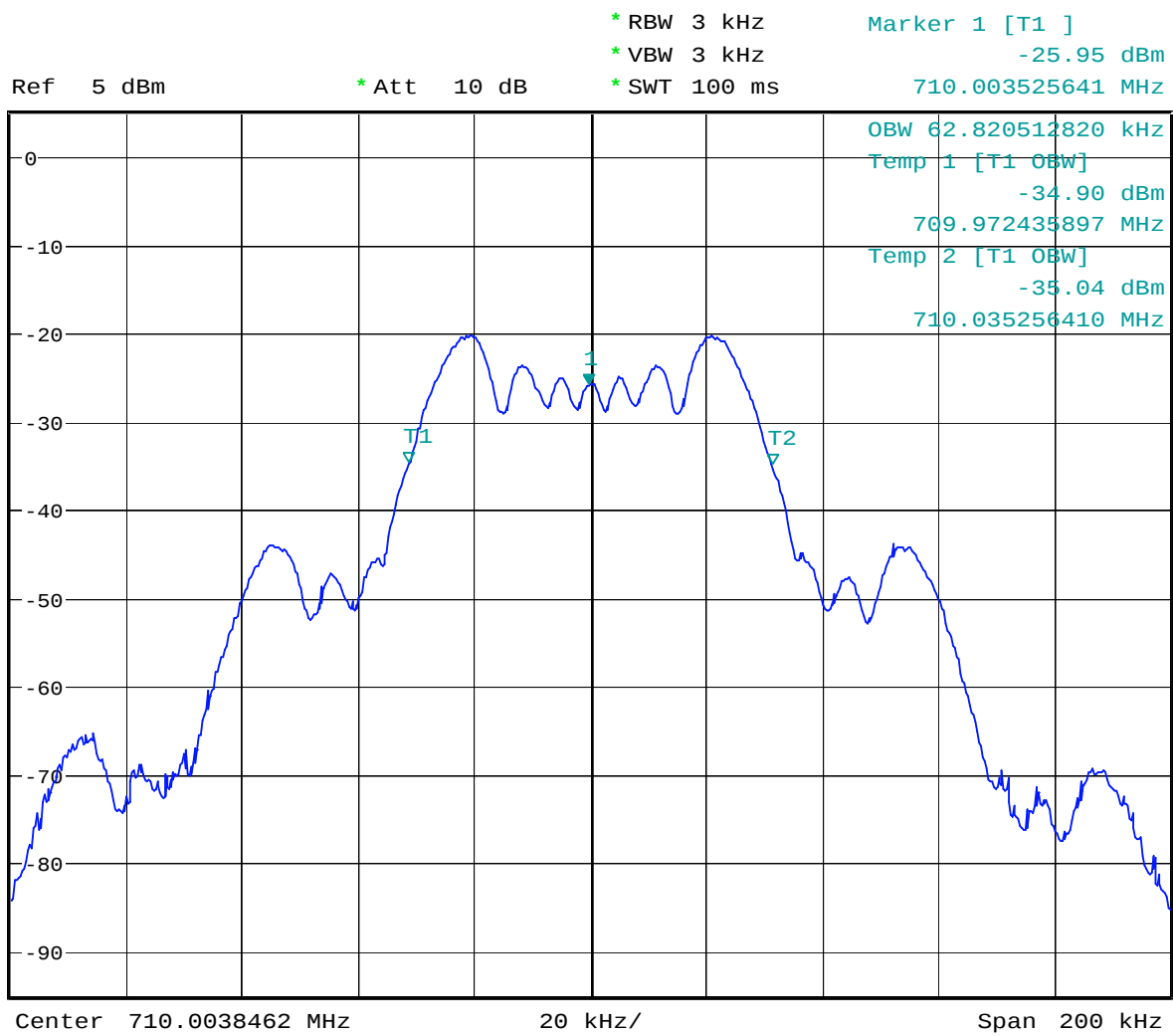
1 PK
MAXH



710MHz WITH 1000Hz MODULATION
Date: 17.JUL.2006 14:20:50



1 PK
MAXH

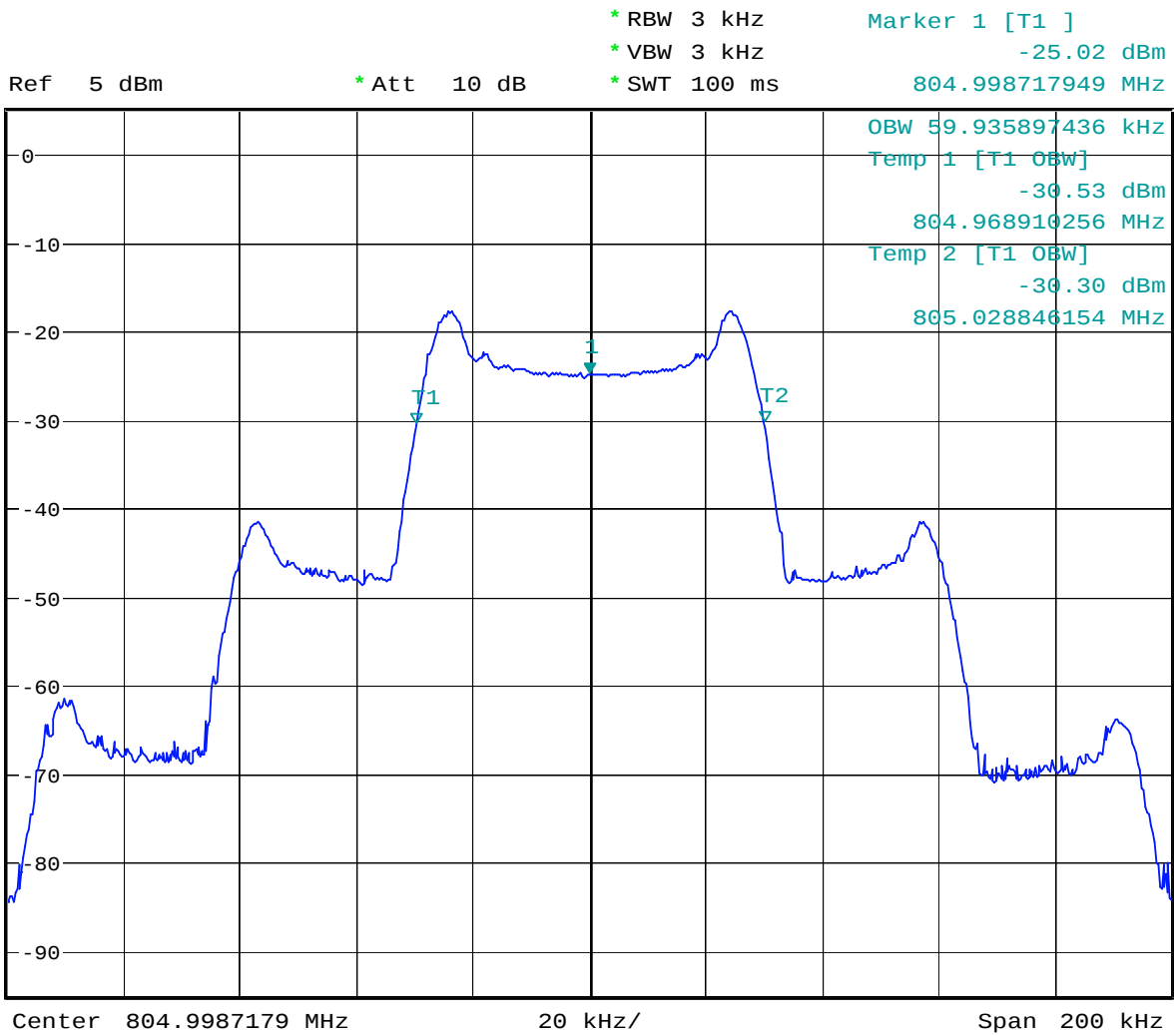


710MHz WITH 2500Hz MODULATION

Date: 17.JUL.2006 14:21:14



1 PK
MAXH

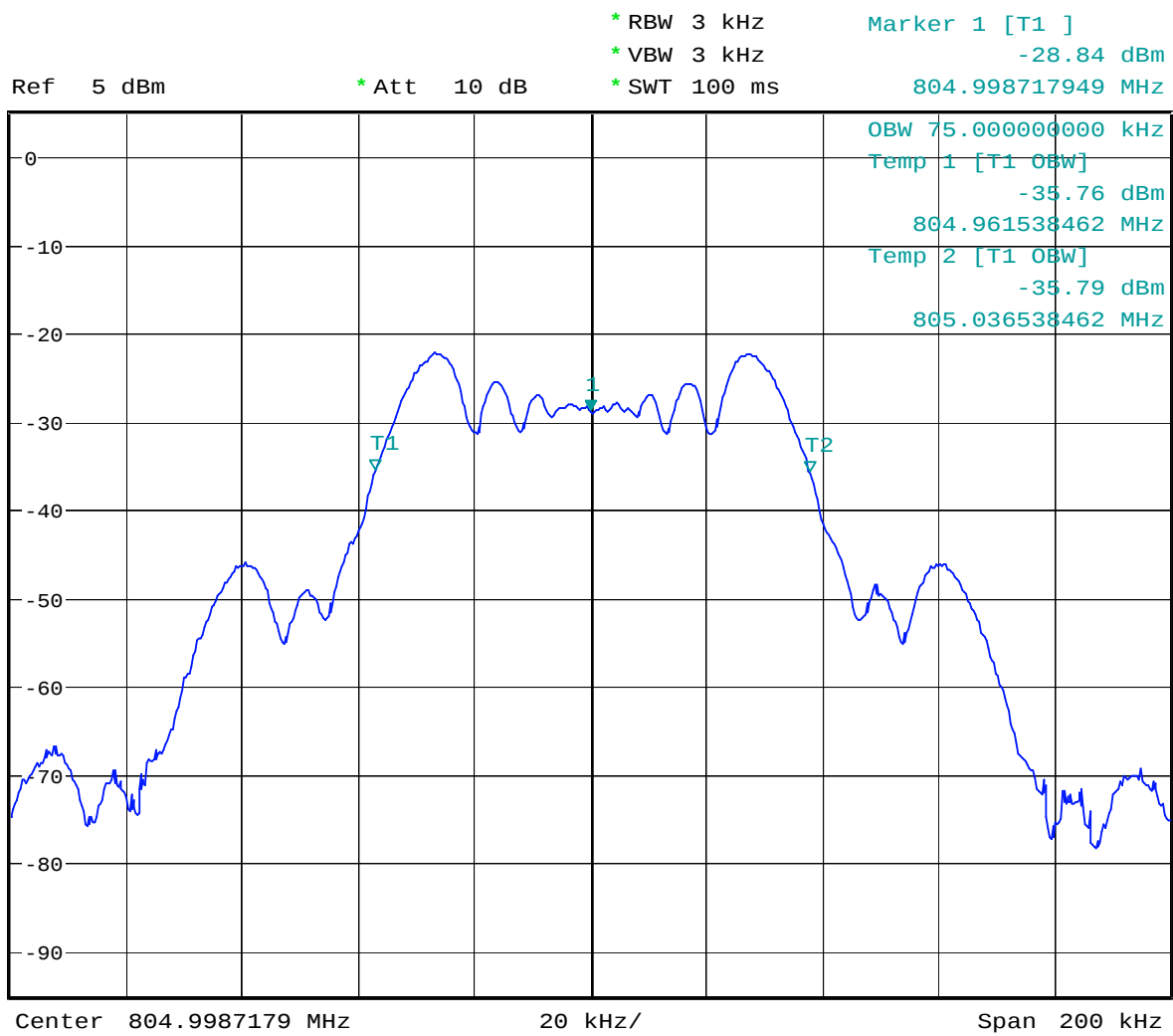


805MHz WITH 1000Hz MODULATION

Date: 17.JUL.2006 14:25:01



1 PK
MAXH

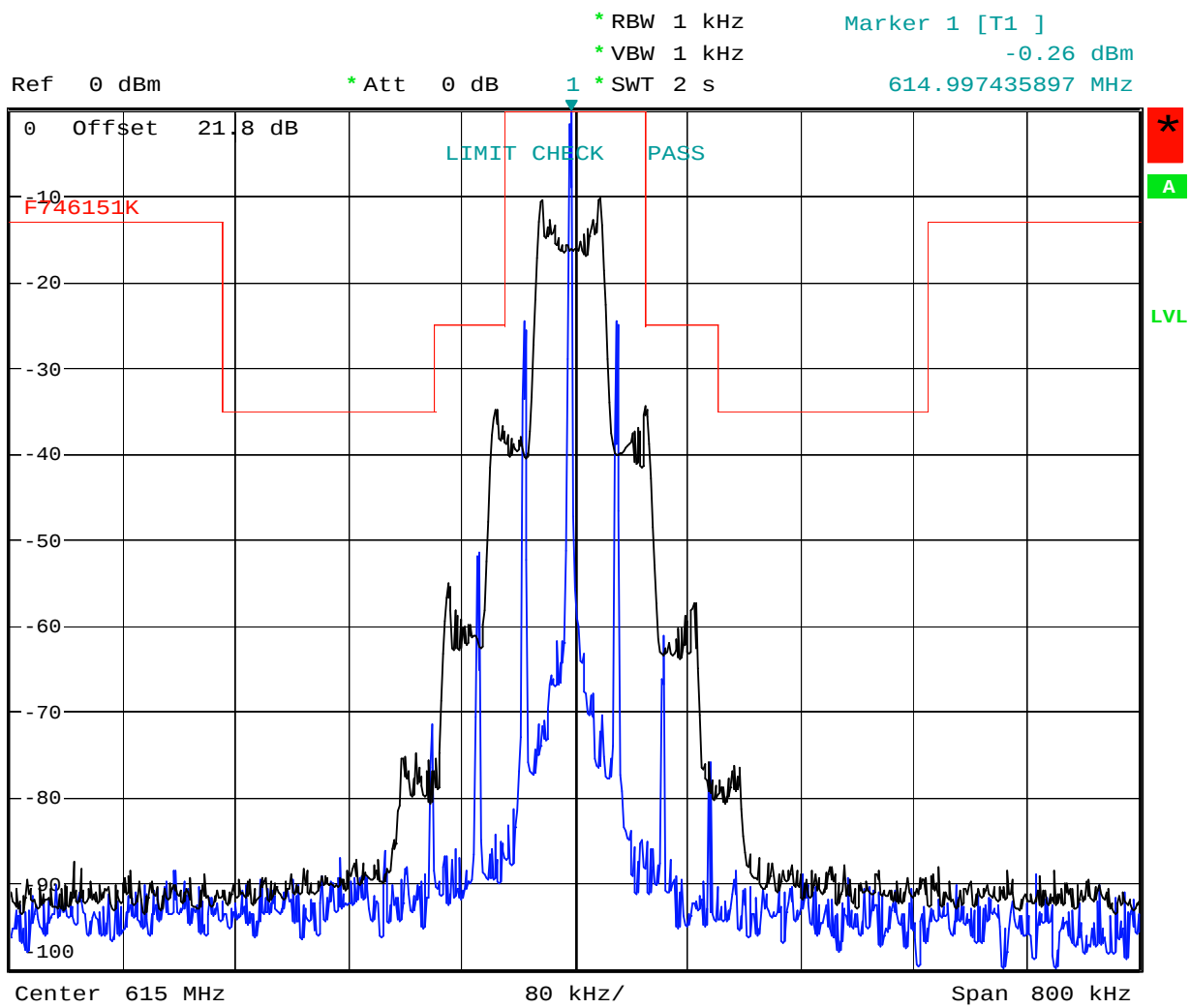


805MHz WITH 2500Hz MODULATION
Date: 17.JUL.2006 14:25:41



1 PK
VIEW

2 PK
MAXH



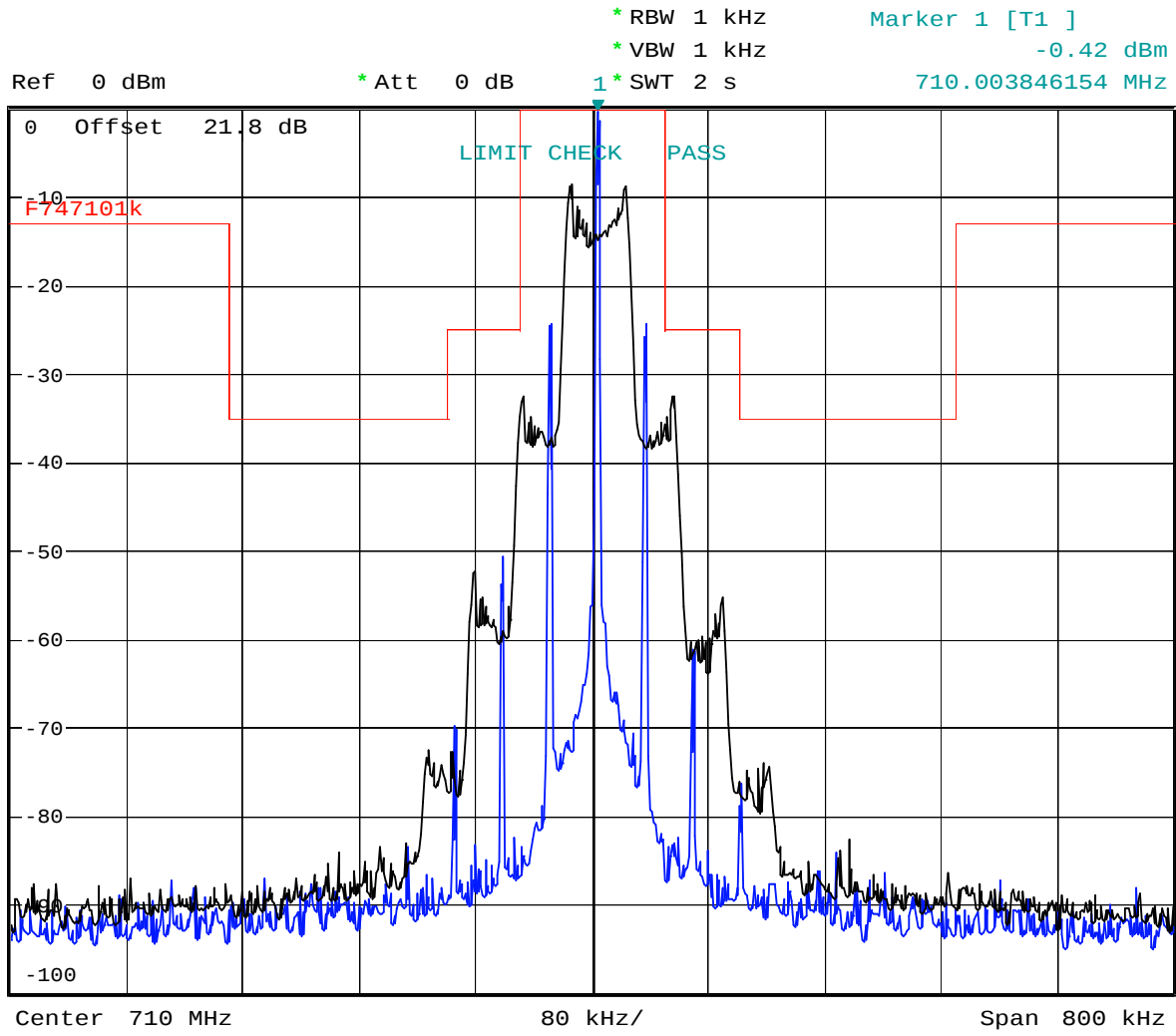
615MHz

Date: 17.JUL.2006 13:41:50



1 PK
VIEW

2 PK
MAXH



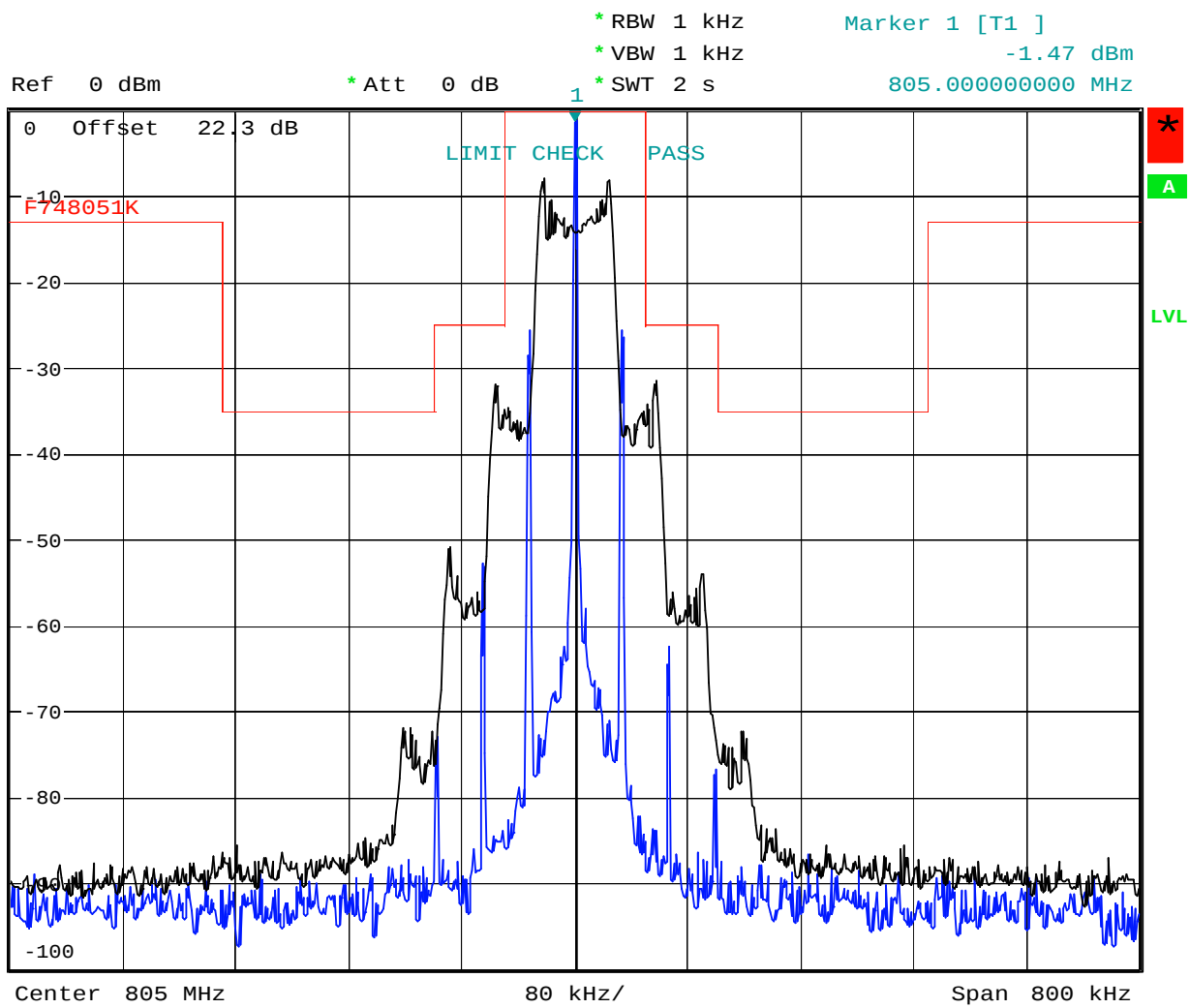
710MHz

Date: 17.JUL.2006 13:49:50



1 PK
VIEW

2 PK
MAXH



805MHz

Date: 17.JUL.2006 13:35:33

Registration number: W6M20607-7162-C-1
FCC ID: QDVUR-M256LC

Appendix D

Spurious Emissions at Antenna Terminals

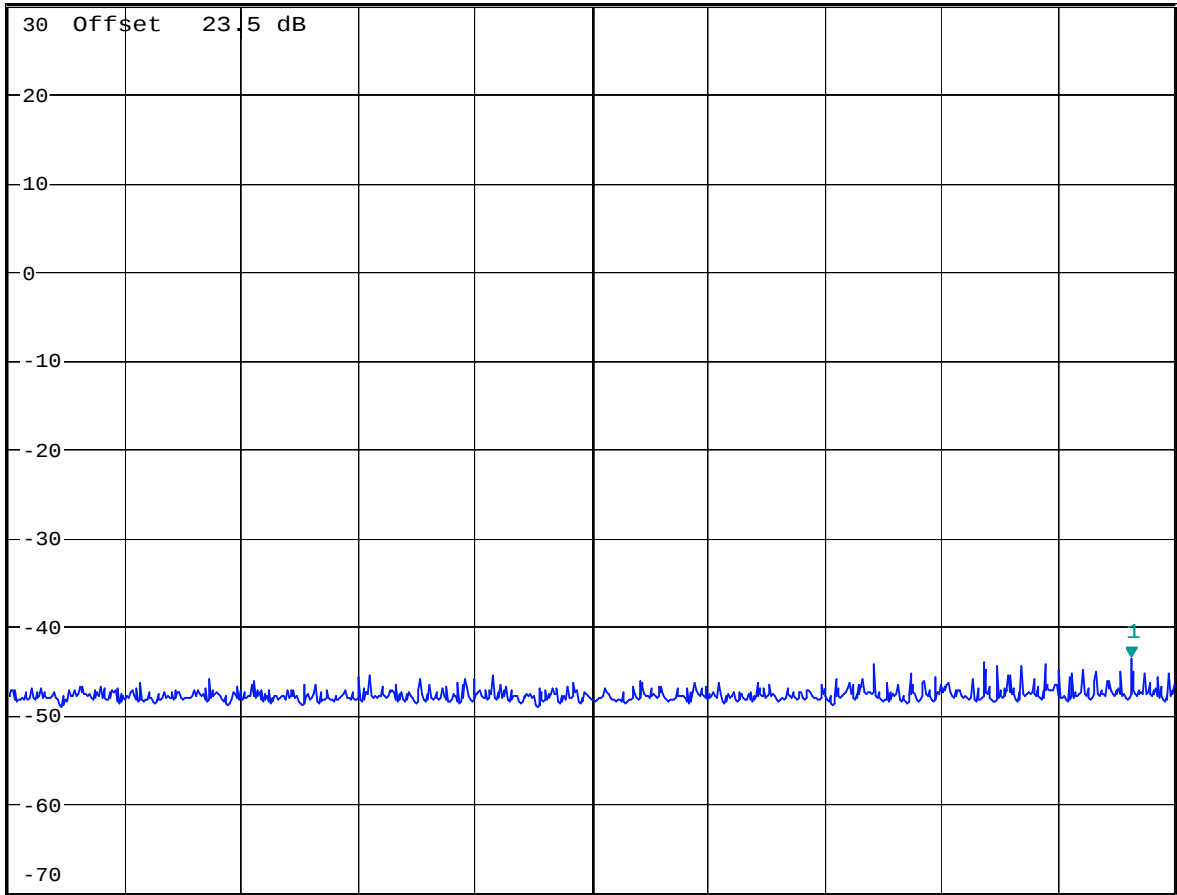


* RBW 100 kHz
* VBW 100 kHz
* SWT 2 s

Marker 1 [T1]
-43.70 dBm
193.549679487 MHz

Ref 30 dBm
* Att 10 dB

1 PK
MAXH



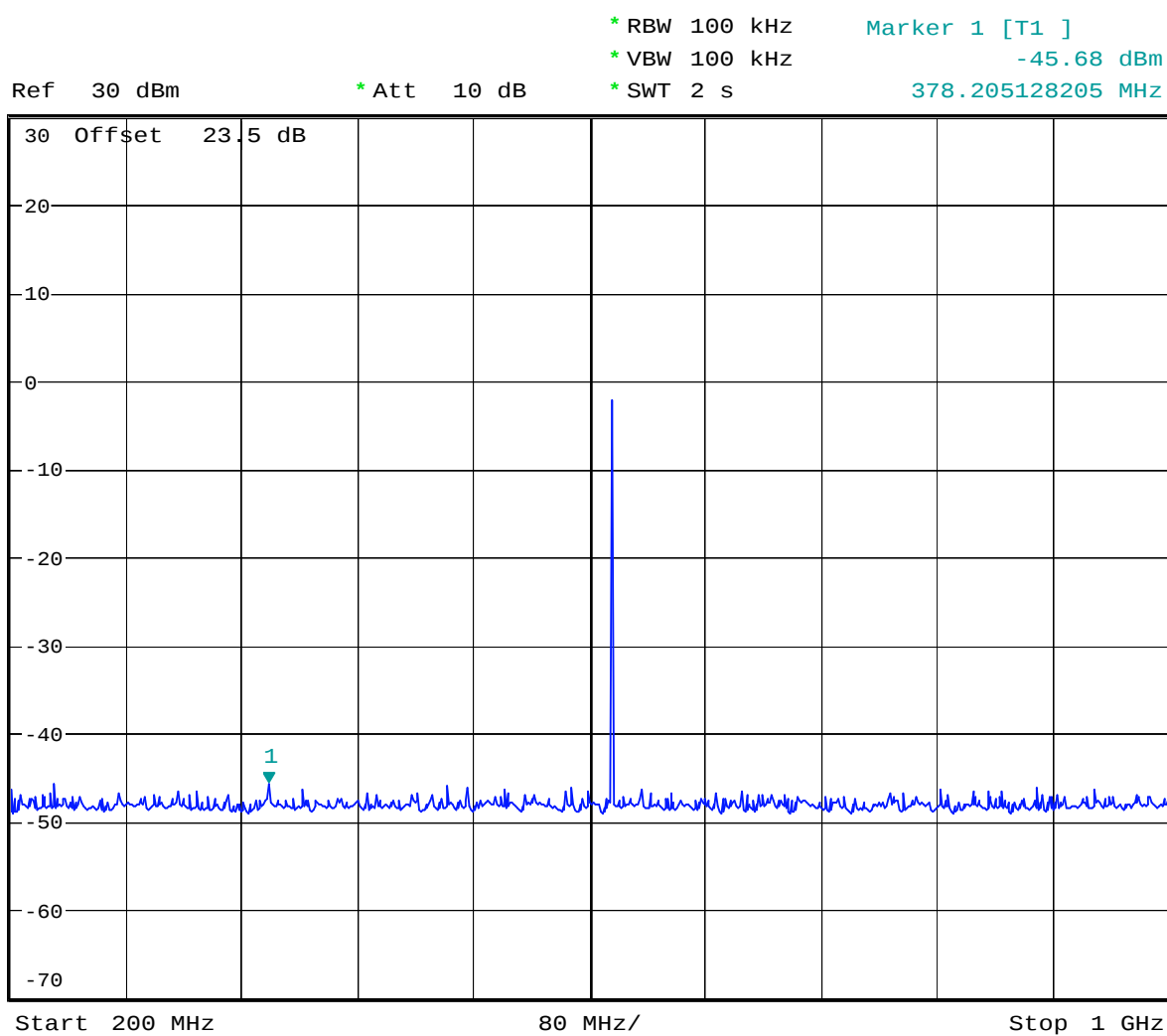
A

LVL

Start 25 MHz 17.5 MHz/ Stop 200 MHz

CONDUCTED SPURIOUS EMISSION 615MHZ

Date: 17.JUL.2006 16:27:11



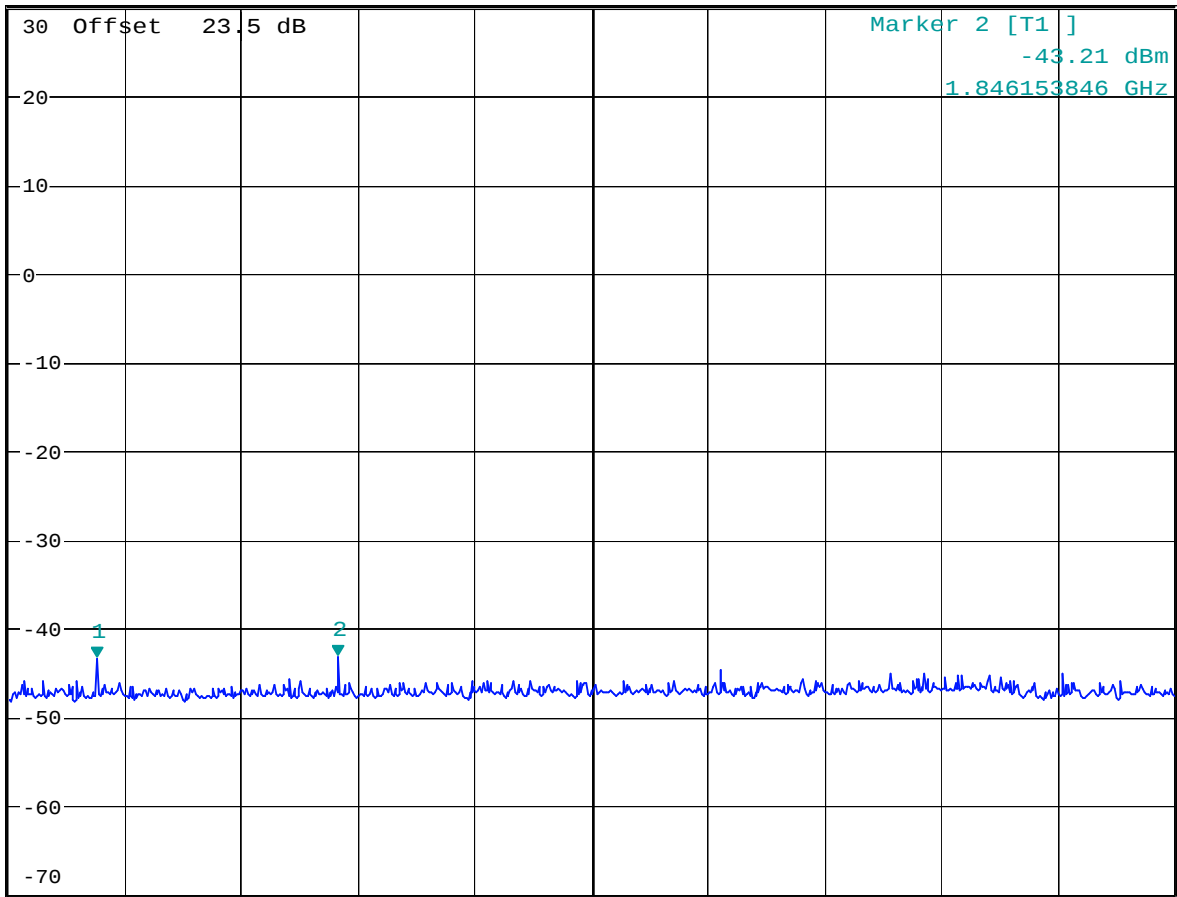
Date: 20.JUL.2006 13:32:57



* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -43.35 dBm
* SWT 2 s 1.225961538 GHz

Ref 30 dBm * Att 10 dB

1 PK
MAXH



A

LVL

Start 1 GHz 300 MHz/ Stop 4 GHz

CONDUCTED SPURIOUS EMISSION 615MHZ

Date: 17.JUL.2006 16:29:00

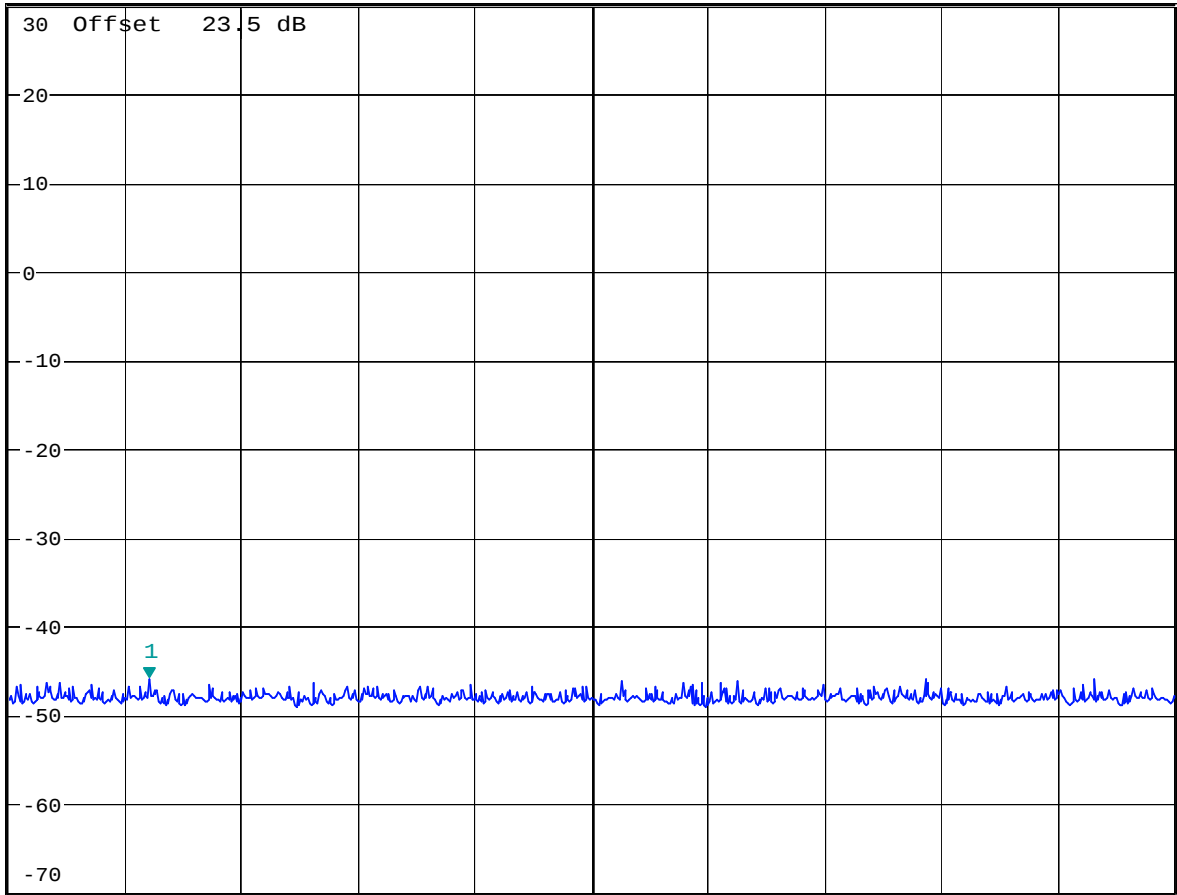


* RBW 100 kHz
* VBW 100 kHz
* SWT 2 s

Marker 1 [T1]
-46.00 dBm
4.480769231 GHz

Ref 30 dBm
* Att 10 dB

1 PK
MAXH



Start 4 GHz 400 MHz/ Stop 8 GHz

CONDUCTED SPURIOUS EMISSION 615MHZ

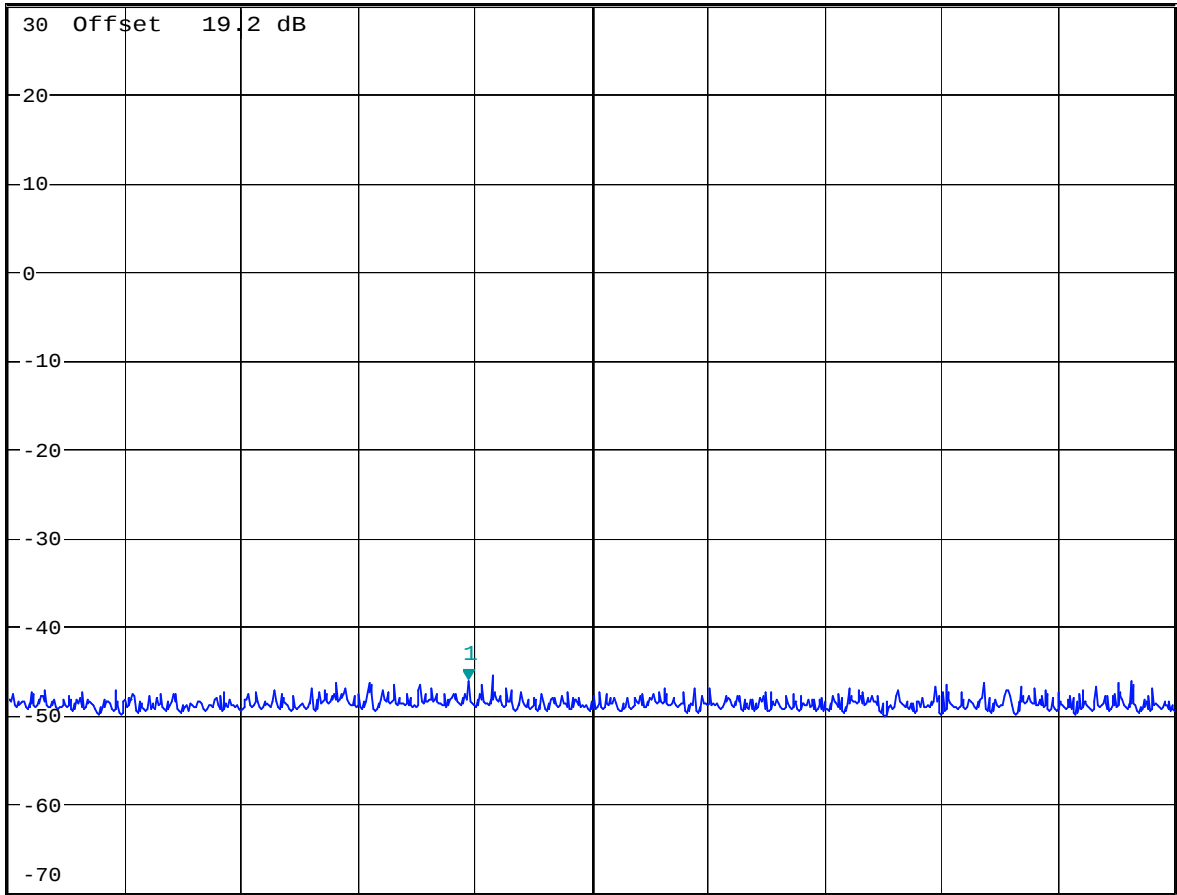
Date: 17.JUL.2006 16:29:24



* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -46.10 dBm
* SWT 2 s 93.990384615 MHz

Ref 30 dBm * Att 10 dB

1 PK
MAXH



Start 25 MHz 17.5 MHz/ Stop 200 MHz

CONDUCTED SPURIOUS EMISSION 710MHZ
Date: 17.JUL.2006 16:01:25

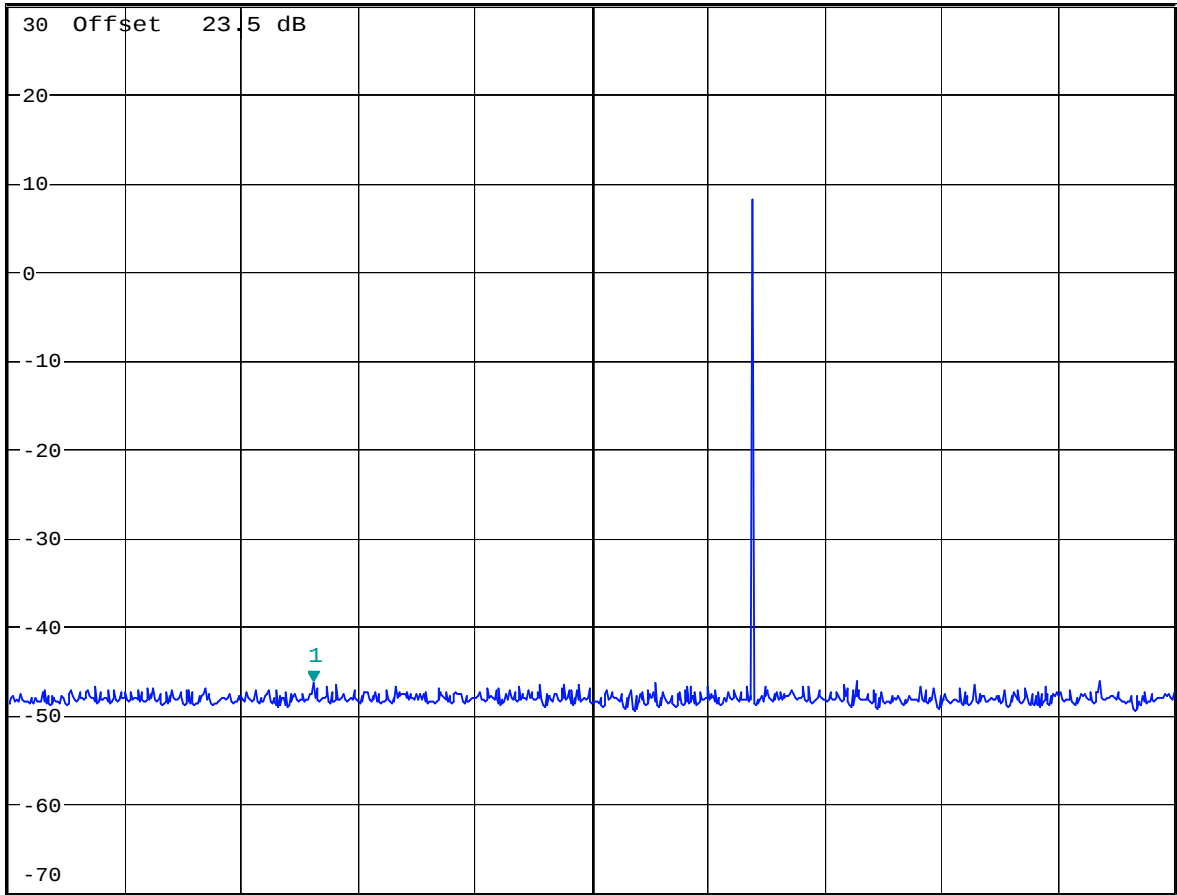


* RBW 100 kHz
* VBW 100 kHz
* SWT 2 s

Marker 1 [T1]
-46.41 dBm
408.974358974 MHz

Ref 30 dBm
* Att 10 dB

1 PK
MAXH



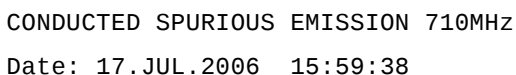
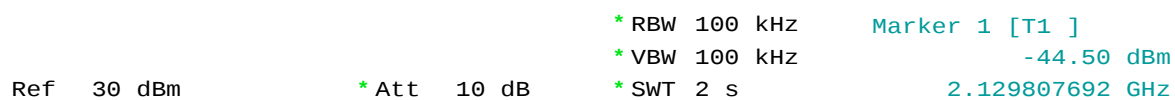
A

LVL

Start 200 MHz 80 MHz/ Stop 1 GHz

CONDUCTED SPURIOUS EMISSION 710MHZ

Date: 20.JUL.2006 13:34:34

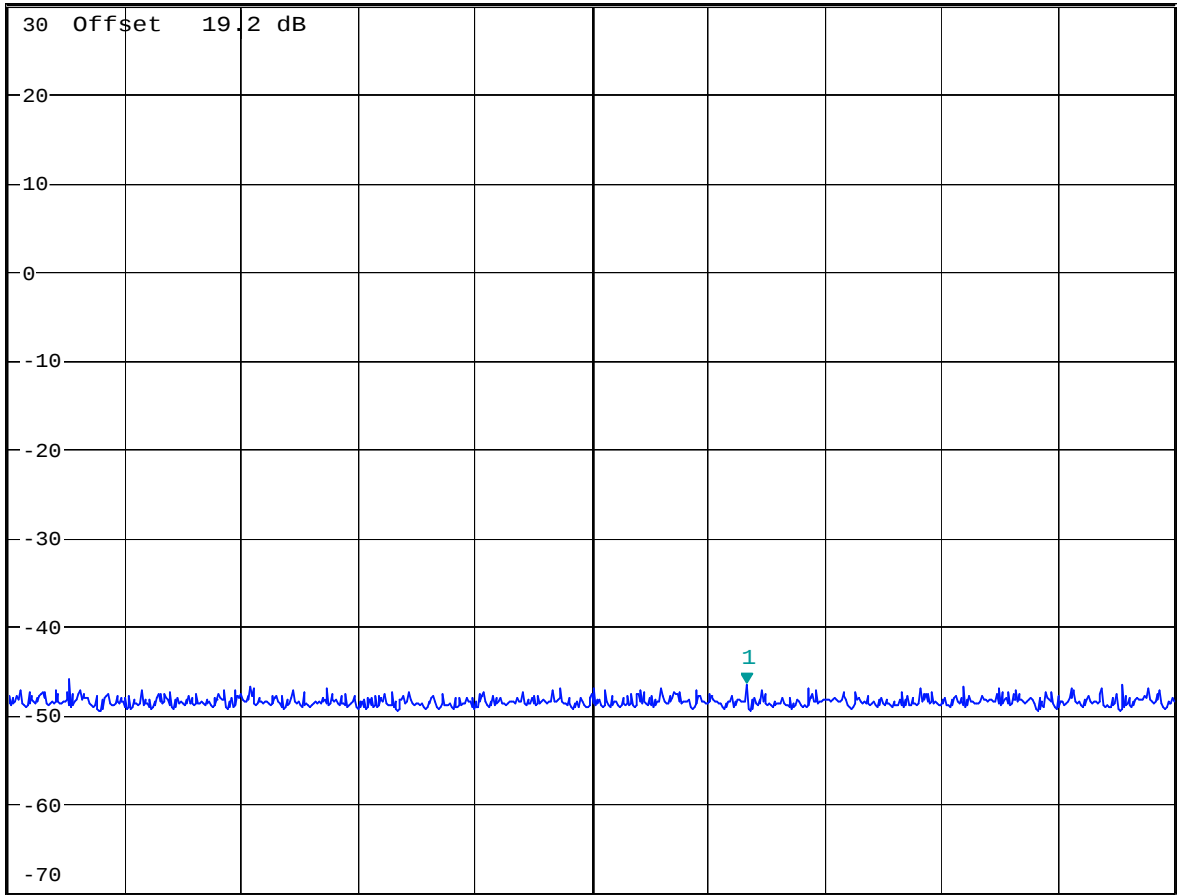




* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -46.59 dBm
* SWT 2 s 6.532051282 GHz

Ref 30 dBm * Att 10 dB

1 PK
MAXH



Start 4 GHz 400 MHz/ Stop 8 GHz

CONDUCTED SPURIOUS EMISSION 710MHZ

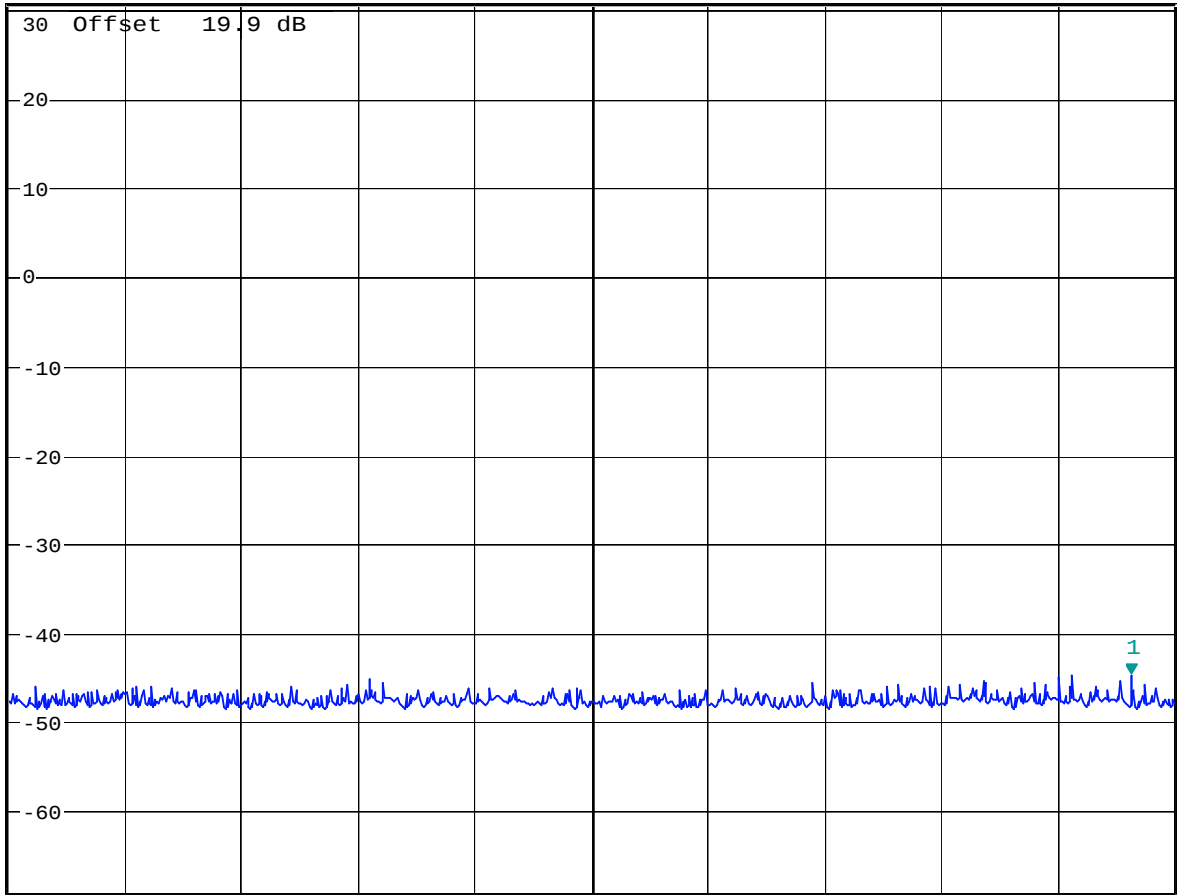
Date: 17.JUL.2006 16:00:04



* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -44.86 dBm
* SWT 2 s 193.549679487 MHz

Ref 30.7 dBm * Att 10 dB

1 PK
MAXH



Start 25 MHz 17.5 MHz/ Stop 200 MHz

CONDUCTED SPURIOUS EMISSION 805MHZ

Date: 17.JUL.2006 16:11:25

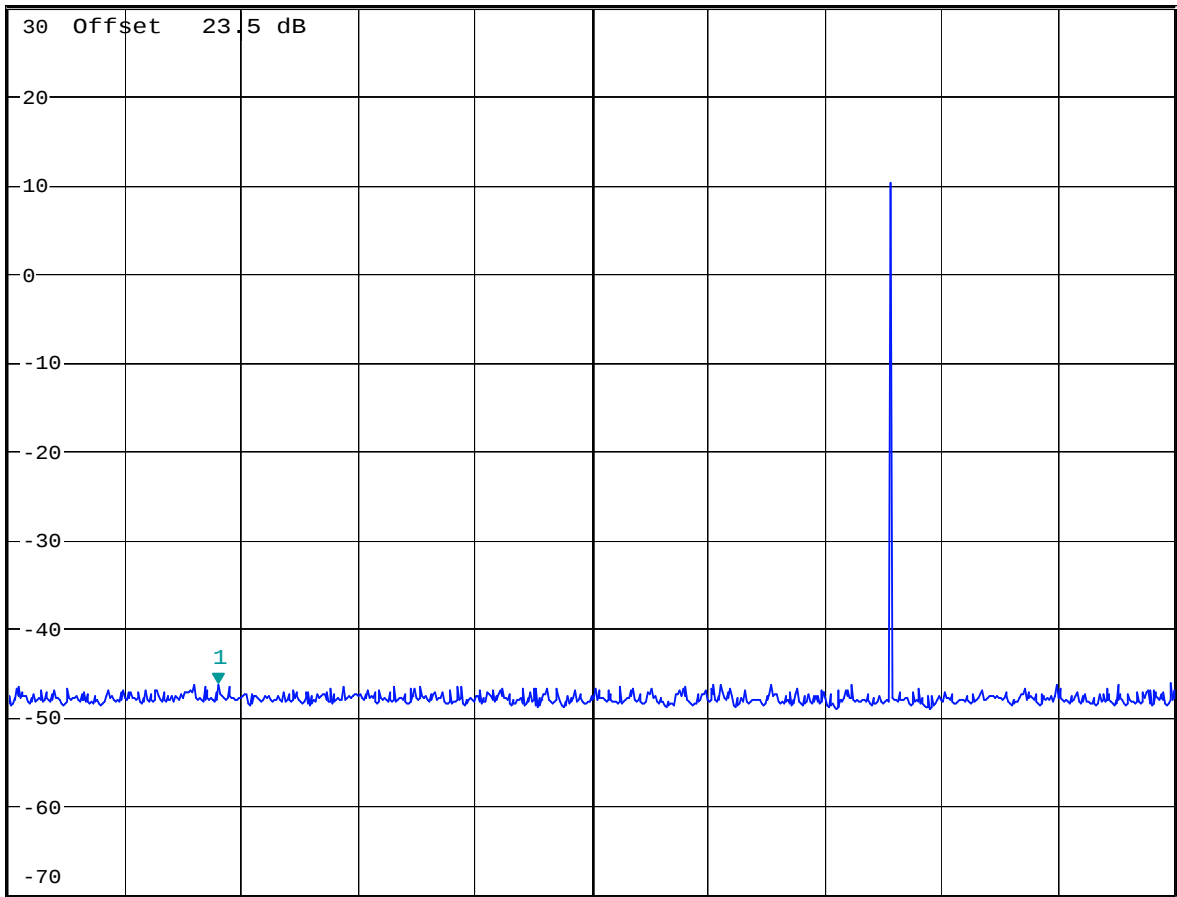


* RBW 100 kHz
* VBW 100 kHz
* SWT 2 s

Marker 1 [T1]
-46.34 dBm
343.589743590 MHz

Ref 30 dBm
* Att 10 dB

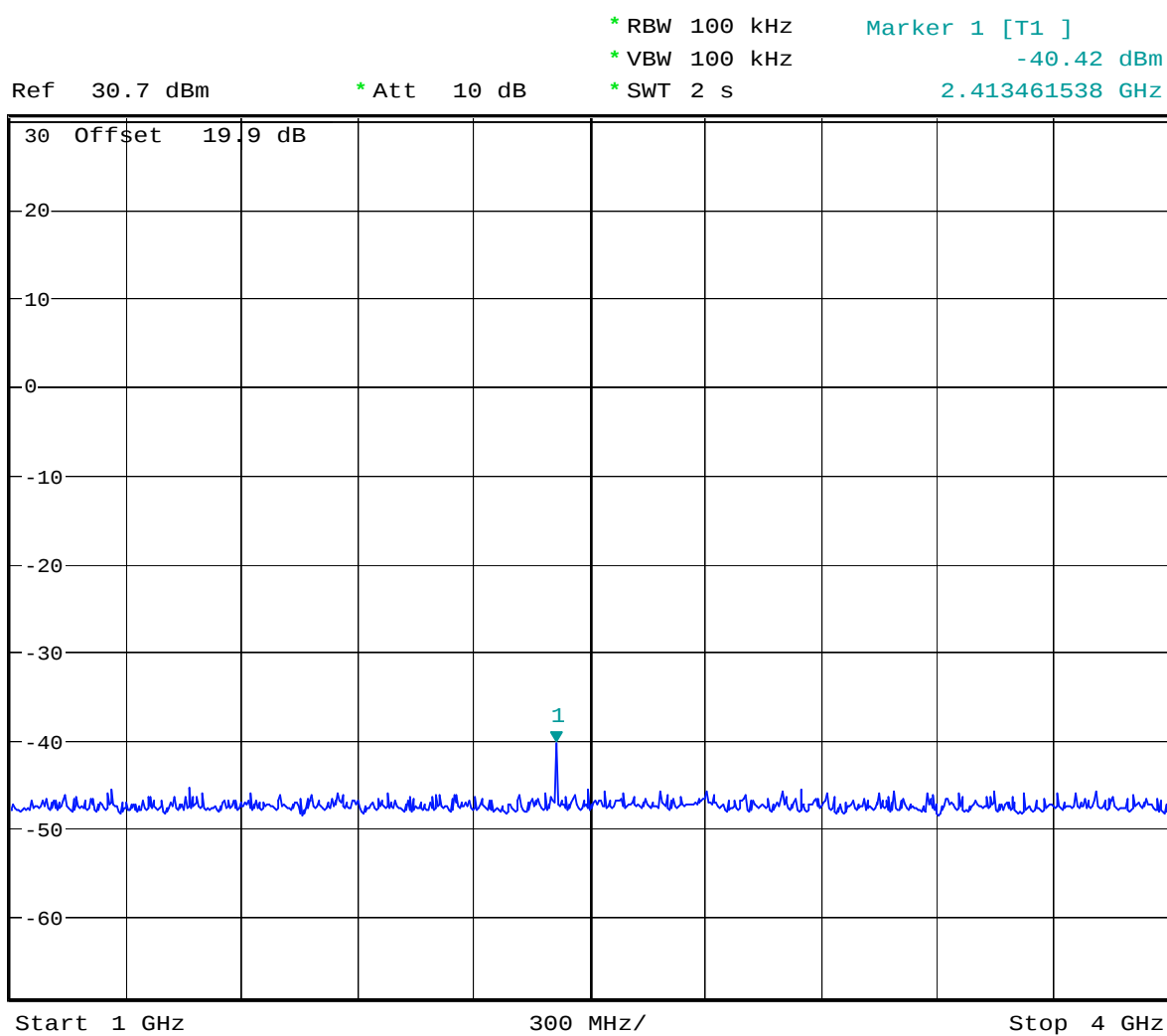
1 PK
MAXH



Start 200 MHz
80 MHz/
Stop 1 GHz

CONDUCTED SPURIOUS EMISSION 805MHZ

Date: 20.JUL.2006 13:36:16



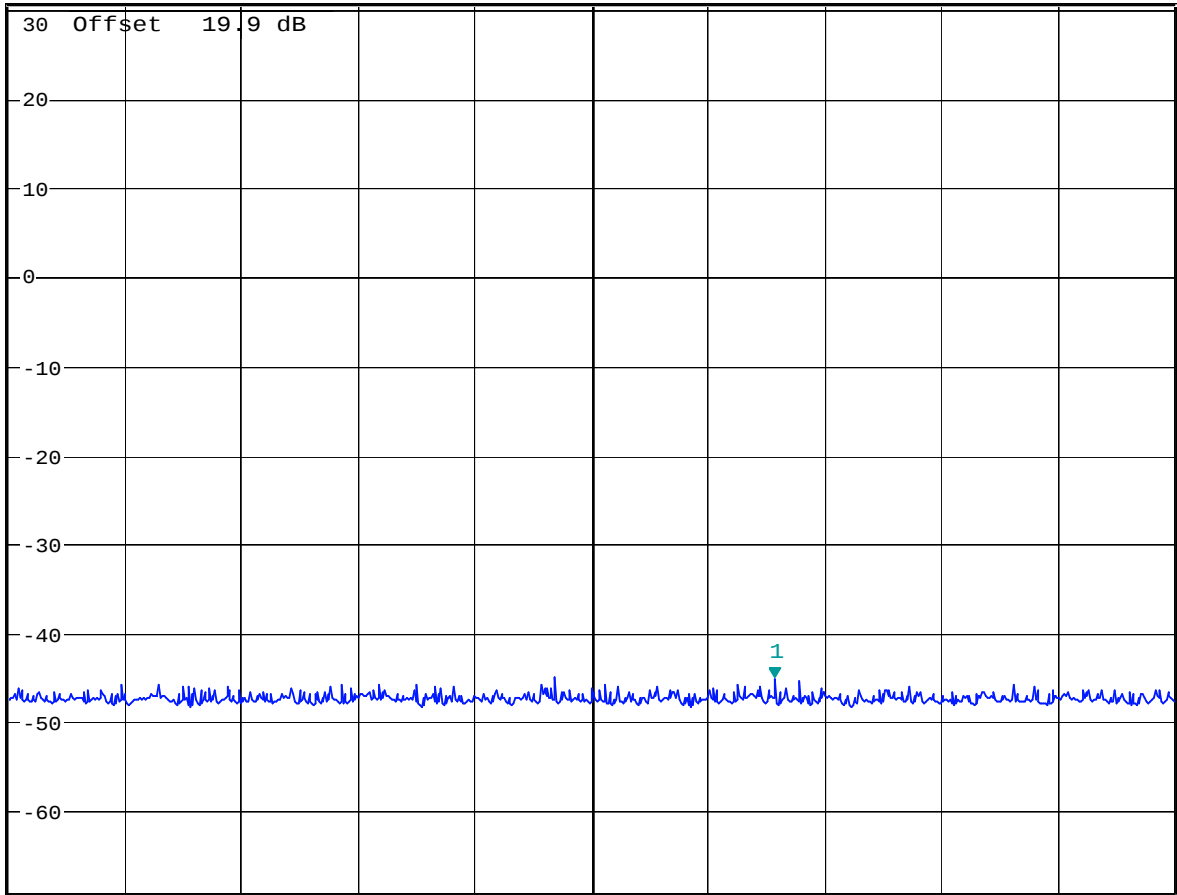
Date: 17.JUL.2006 16:11:52



* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -45.18 dBm
* SWT 2 s 6.628205128 GHz

Ref 30.7 dBm * Att 10 dB

1 PK
MAXH



Start 4 GHz 400 MHz/ Stop 8 GHz

CONDUCTED SPURIOUS EMISSION 805MHZ

Date: 17.JUL.2006 16:12:36

Registration number: W6M20607-7162-C-1
FCC ID: QDVUR-M256LC

Appendix E

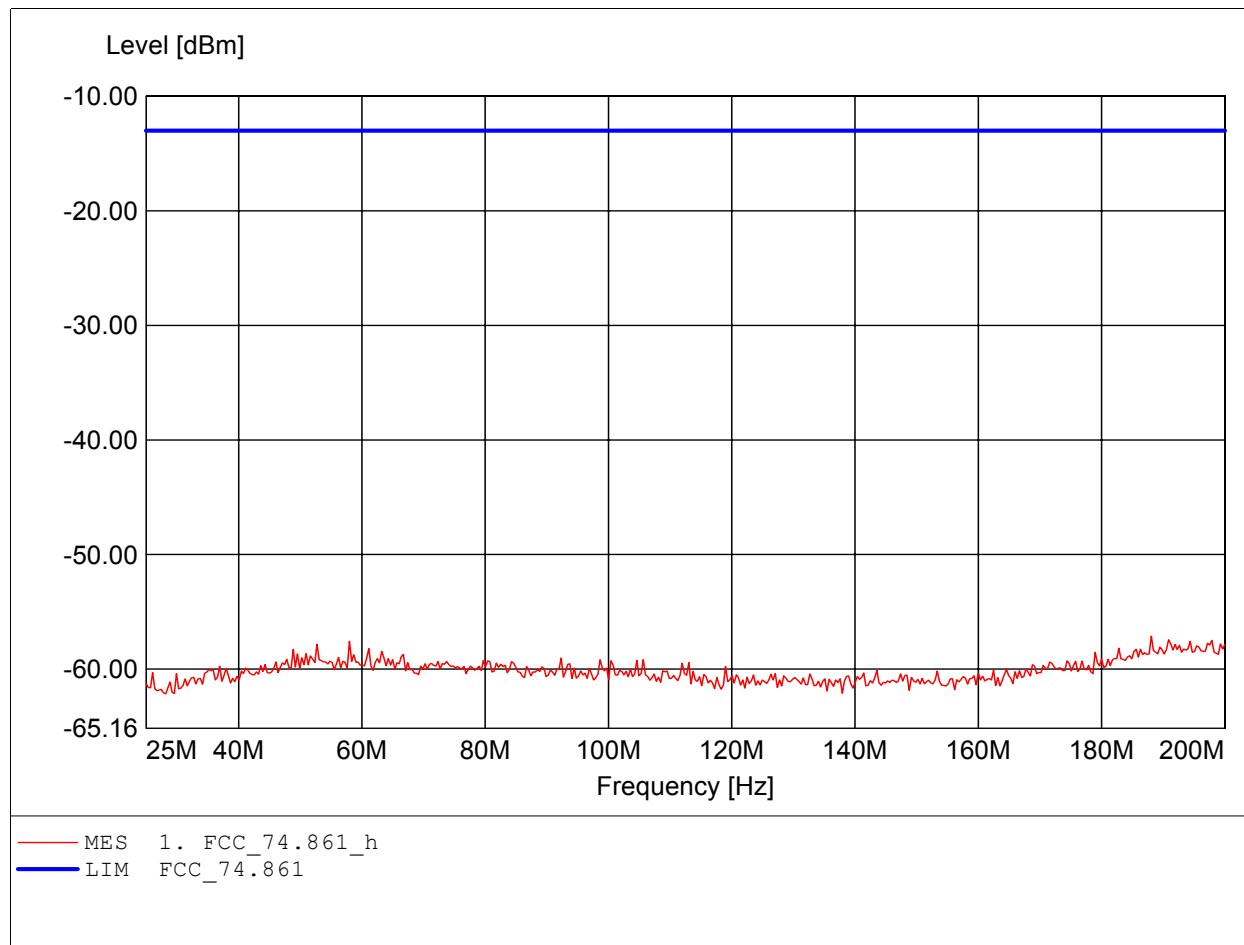
Radiation Spurious Emission

The measurement diagram are wideband pre-scan results; only for reference.

Spurious emissions under normal conditions

in according to FCC Part 74.861

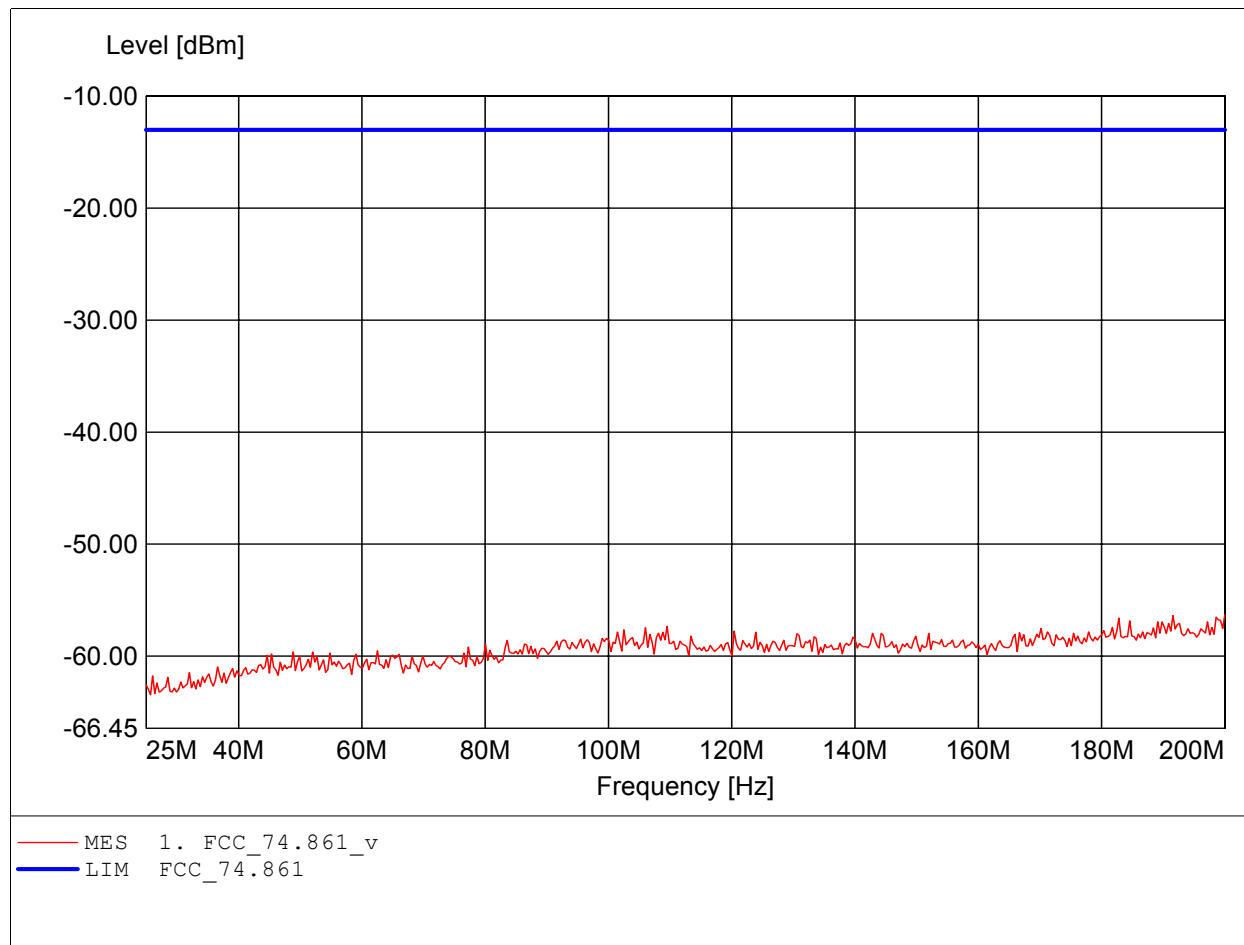
Order Number : W6M20607-7162 615.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:188.076MHz Pmax:-57.13dBm RBW: 100 kHz



Spurious emissions under normal conditions

in according to FCC Part 74.861

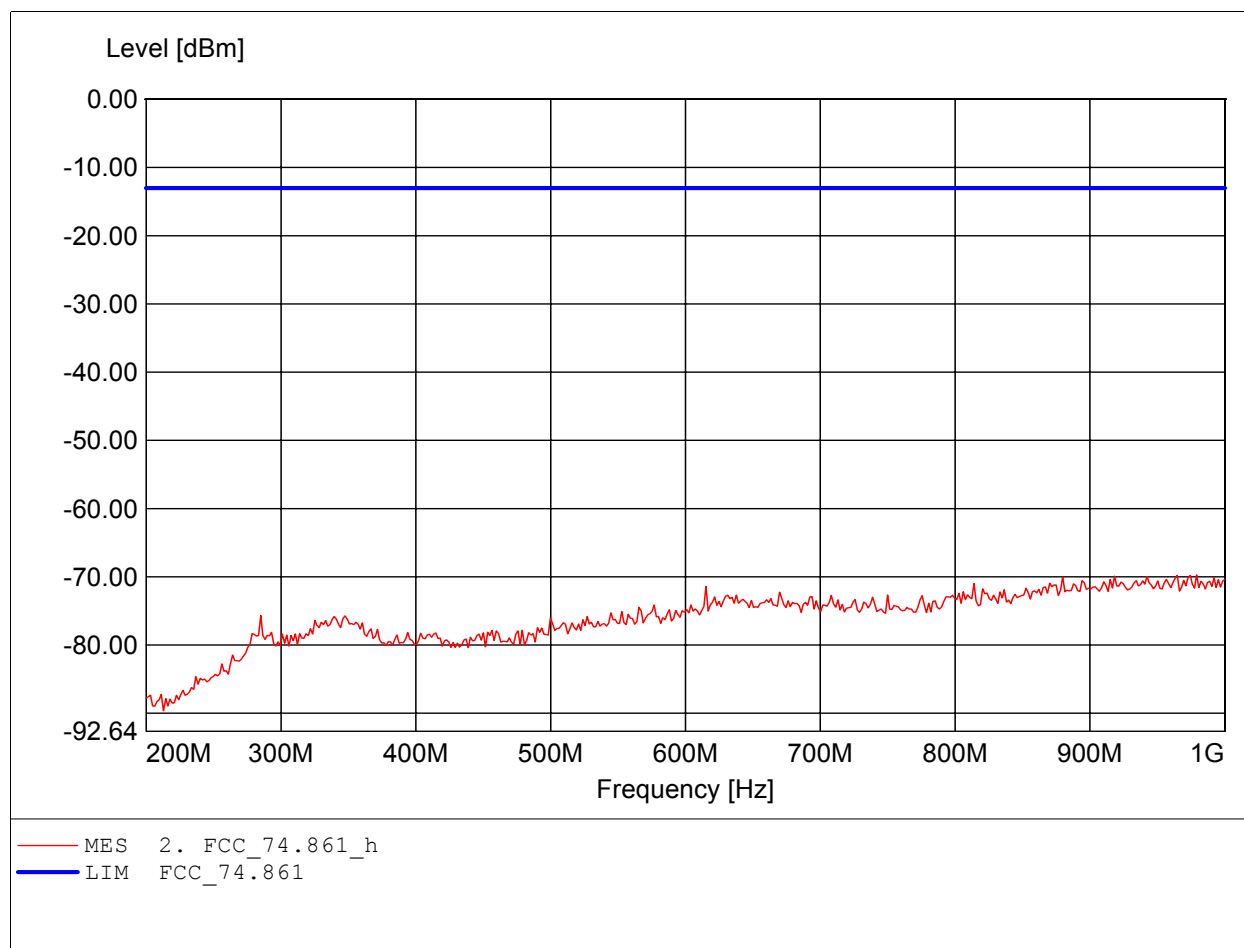
Order Number : W6M20607-7162 615.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:200.000MHz Pmax:-56.33dBm RBW: 100 kHz



Spurious emissions under normal conditions

in according to FCC Part 74.861

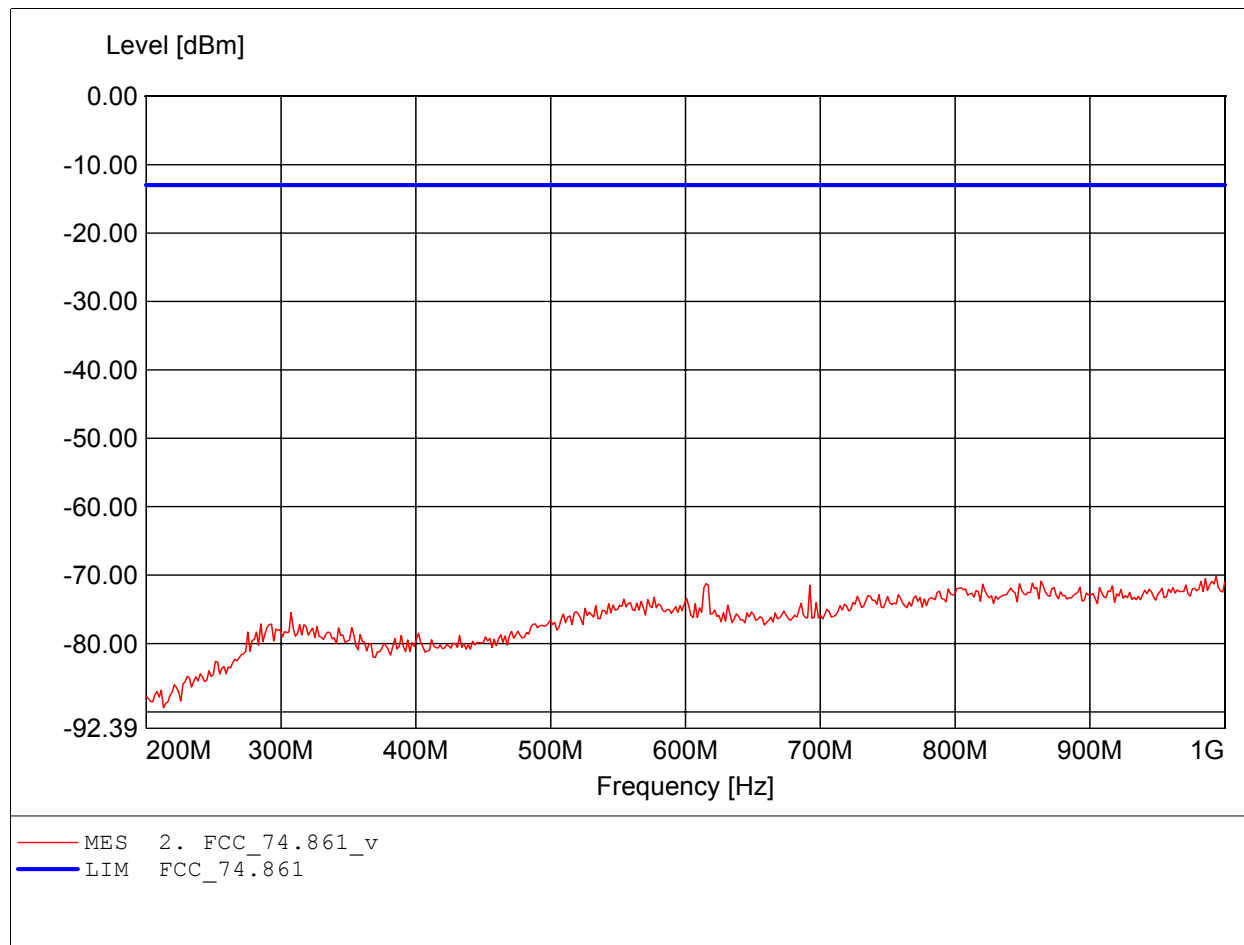
Order Number : W6M20607-7162 615.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.: 0.1-1GHz
Freq:979.158MHz Pmax:-69.70dBm RBW: 100 kHz



Spurious emissions under normal conditions

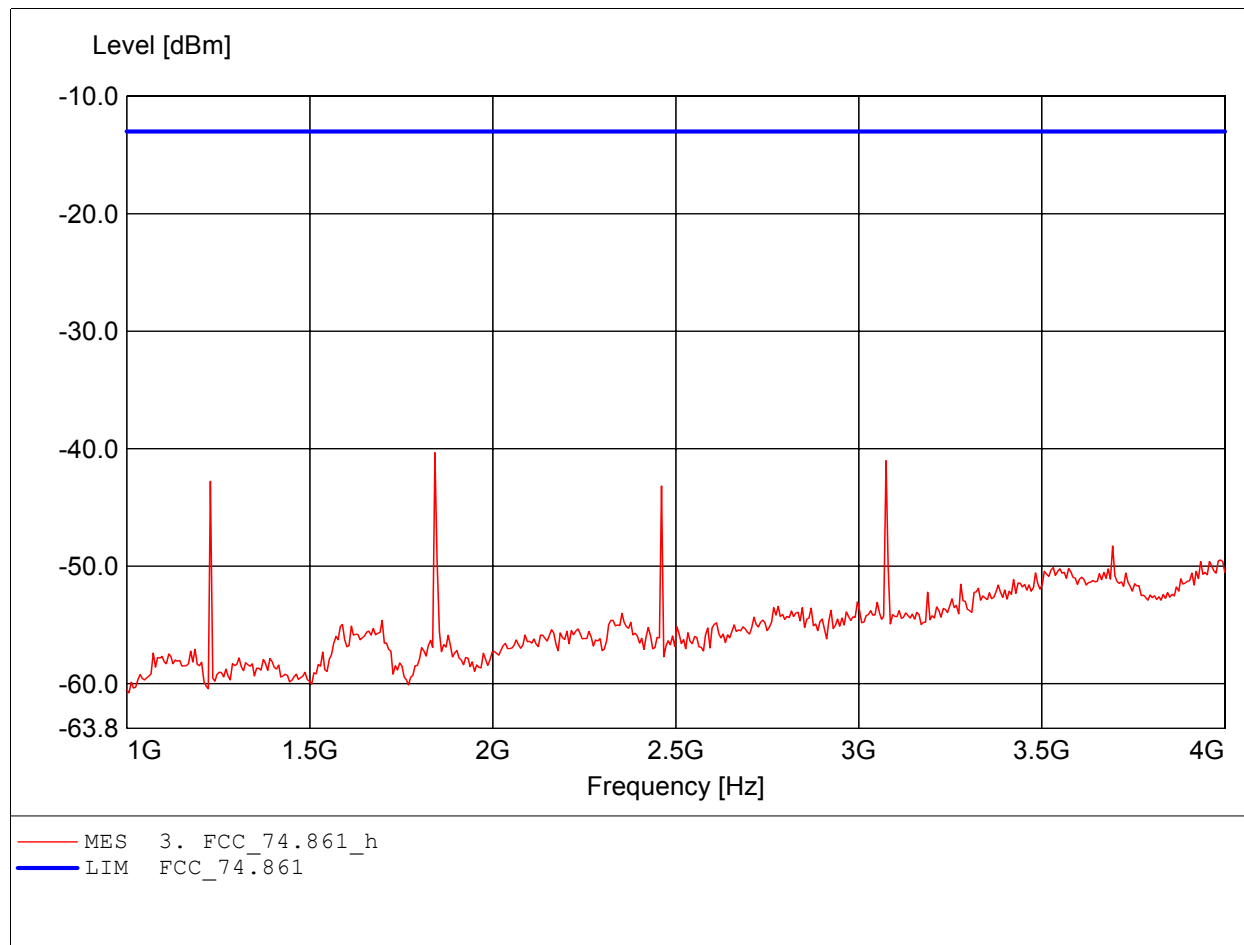
in according to FCC Part 74.861

Order Number : W6M20607-7162 615.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.: 0.1-1GHz
Freq:993.587MHz Pmax:-70.22dBm RBW: 100 kHz



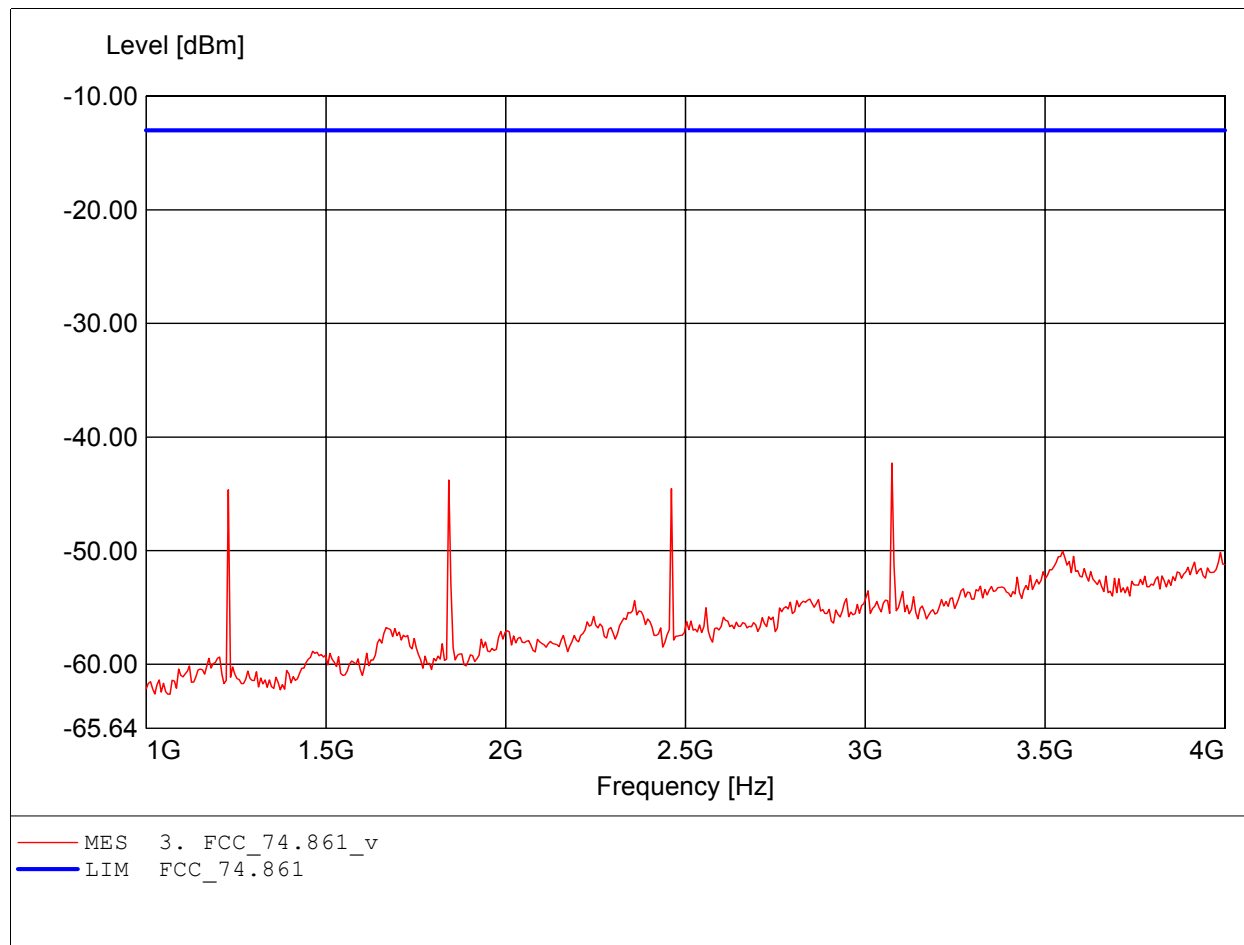
Spurious emissions under normal conditions
in according to FCC Part 74.861

Order Number : W6M20607-7162 615.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.: 1-4GHz
Freq:1.842GHz Pmax:-40.33dBm RBW: 1 MHz



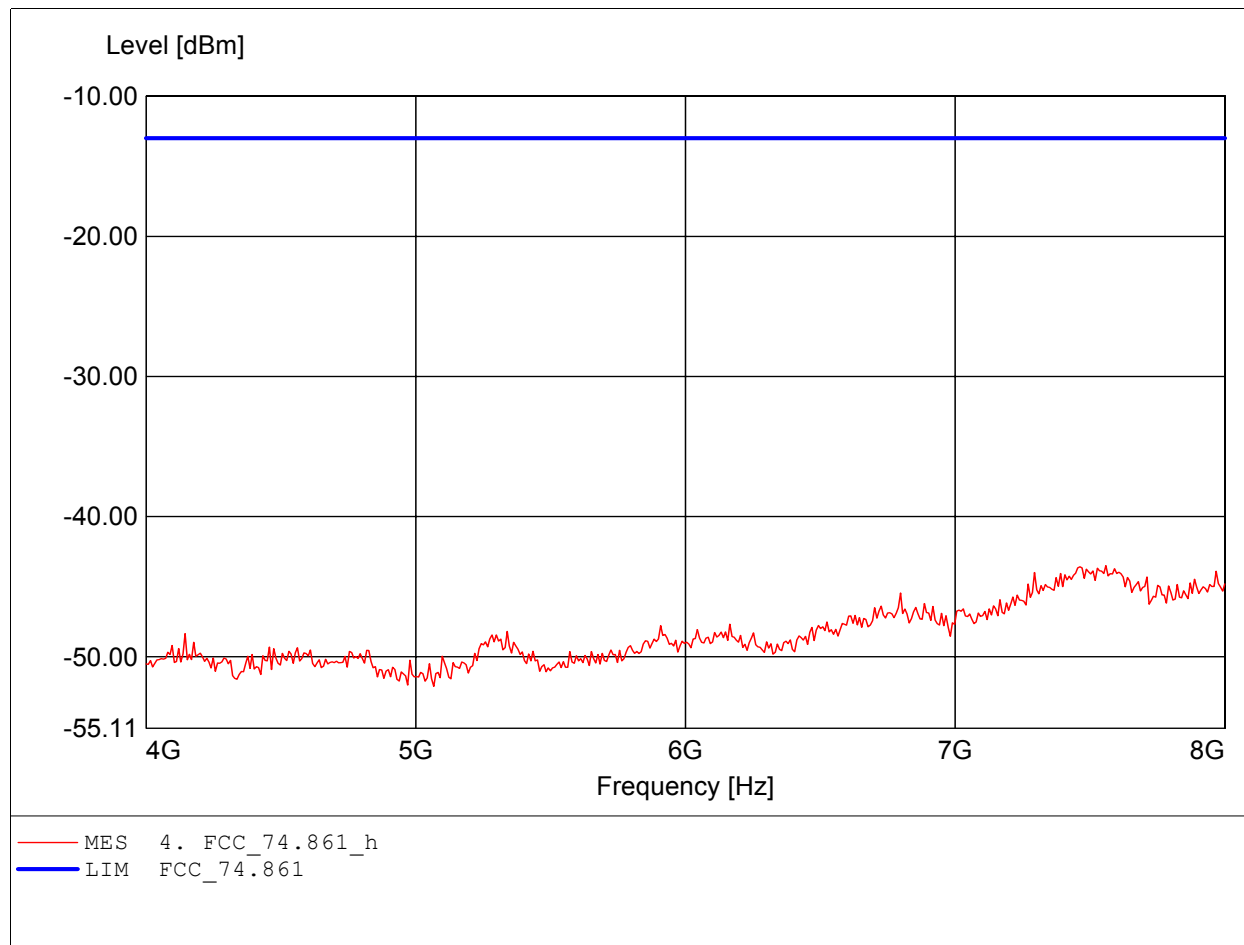
Spurious emissions under normal conditions
in according to FCC Part 74.861

Order Number : W6M20607-7162 615.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.: 1-4GHz
Freq:3.074GHz Pmax:-42.29dBm RBW: 1 MHz



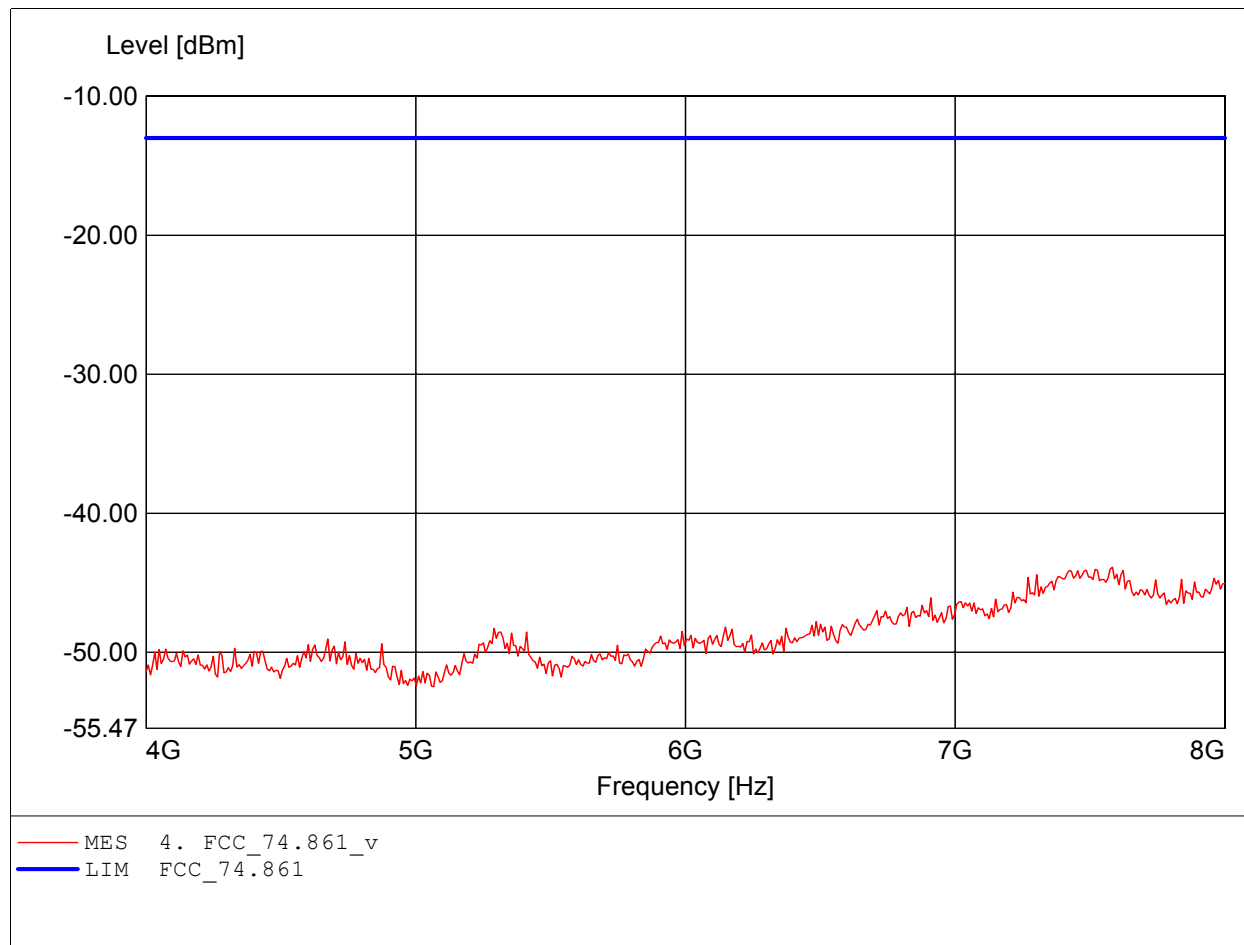
Spurious emissions under normal conditions
in according to FCC Part 74.861

Order Number : W6M20607-7162 615.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 4-8GHz
Freq:7.559GHz Pmax:-43.50dBm RBW: 1 MHz



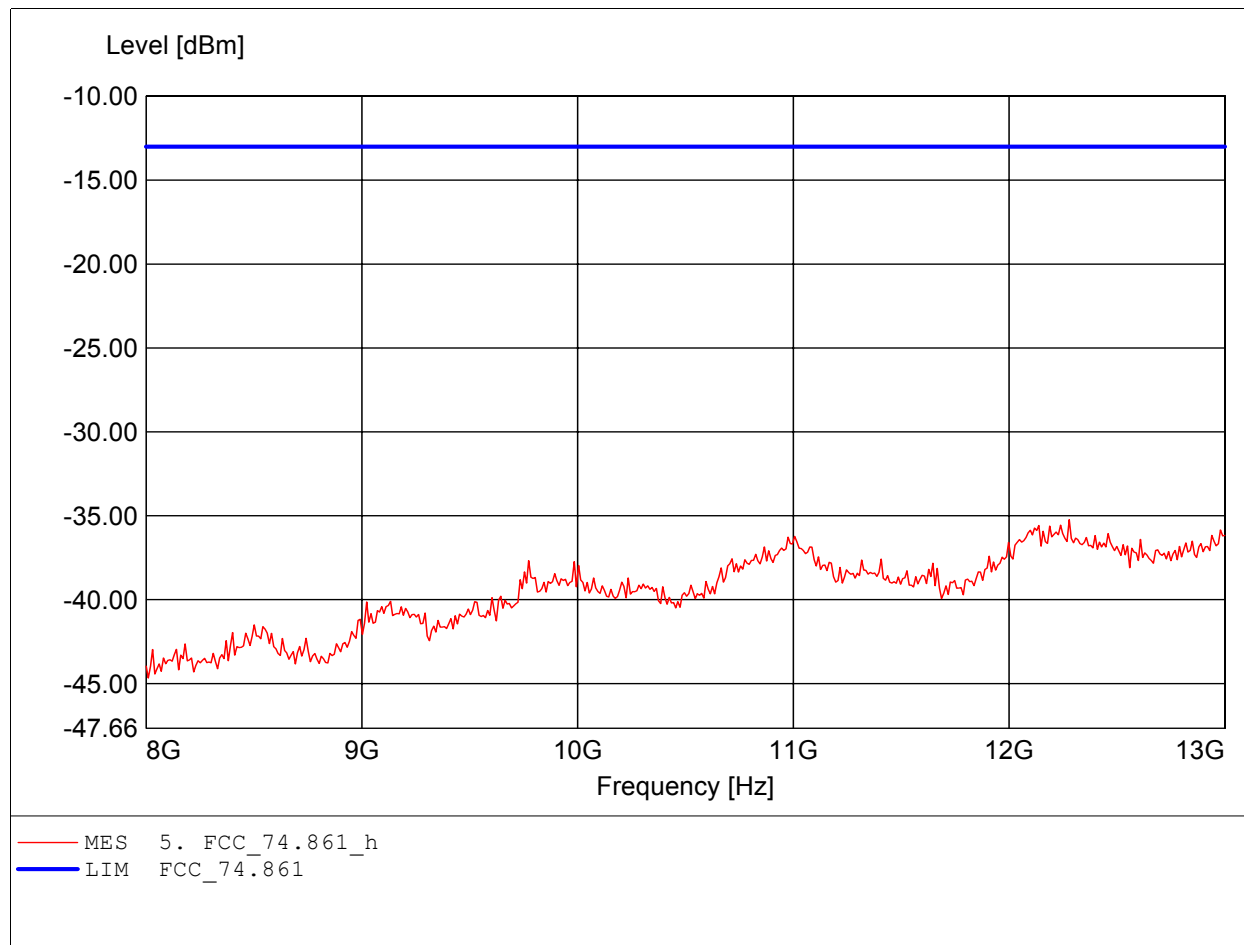
Spurious emissions under normal conditions
in according to FCC Part 74.861

Order Number : W6M20607-7162 615.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 4-8GHz
Freq:7.583GHz Pmax:-43.89dBm RBW: 1 MHz



Spurious emissions under normal conditions
in according to FCC Part 74.861

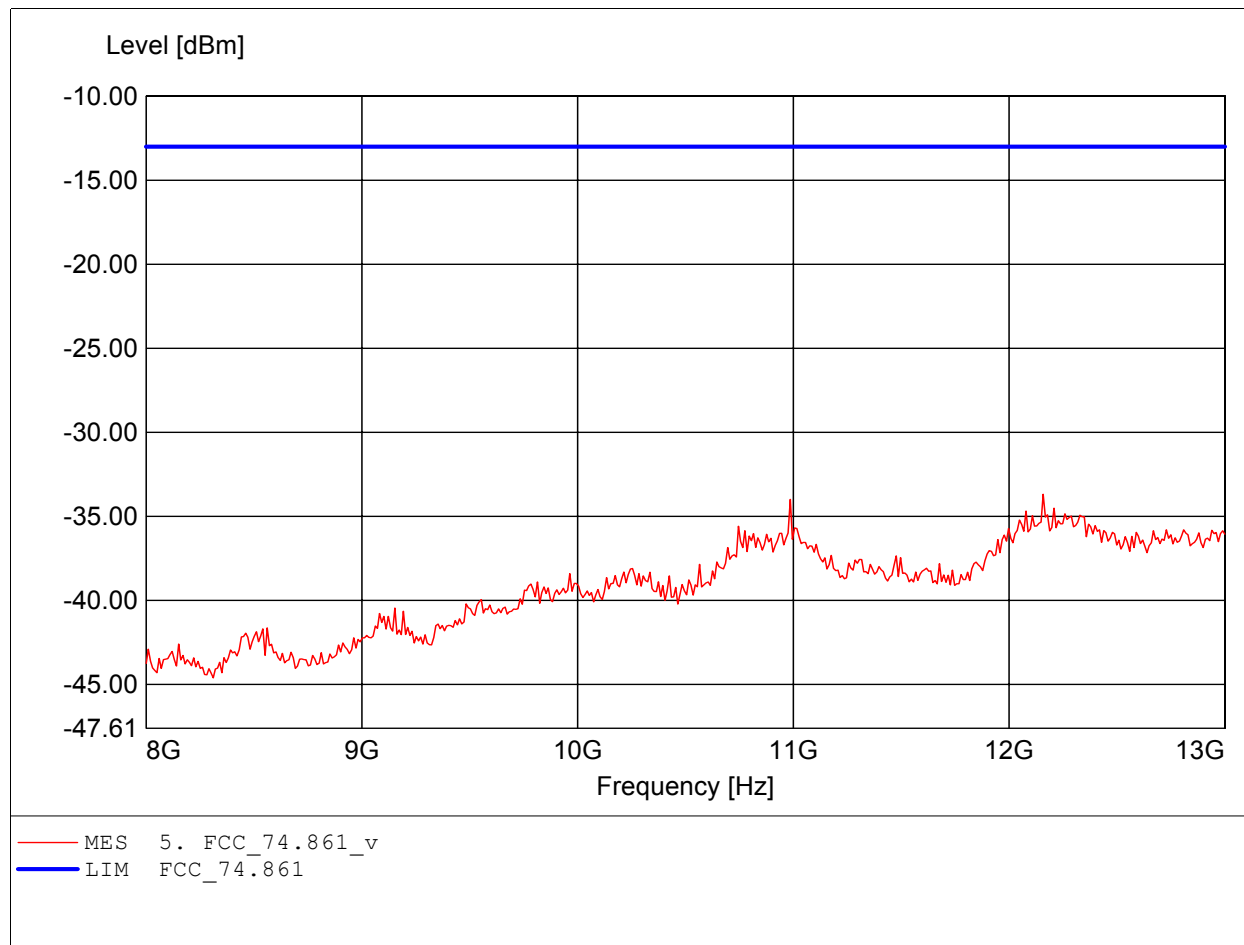
Order Number : W6M20607-7162 615.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 8-18GHz
Freq:12.279GHz Pmax:-35.23dBm RBW: 1 MHz



Spurious emissions under normal conditions

in according to FCC Part 74.861

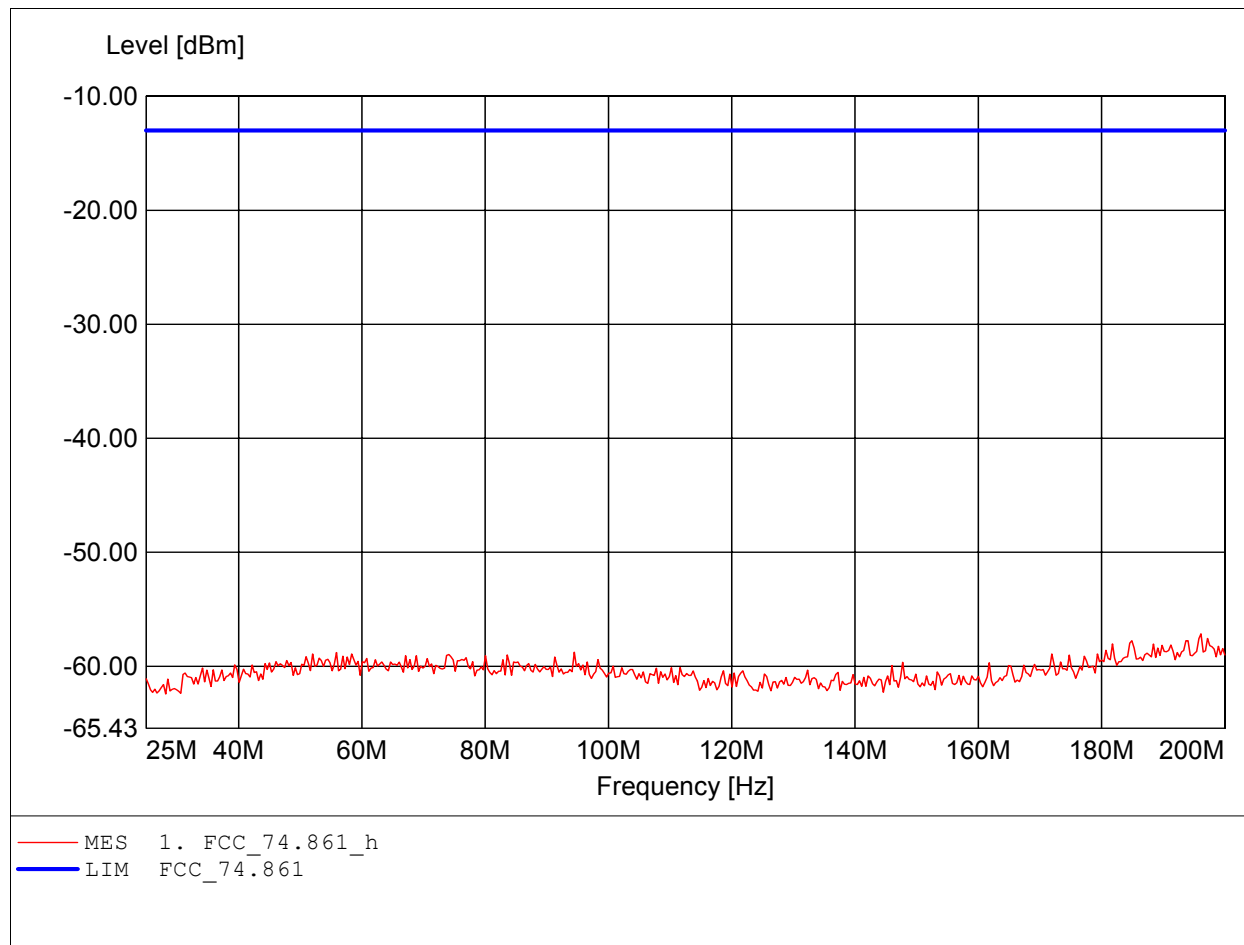
Order Number : W6M20607-7162 615.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 8-18GHz
Freq:12.158GHz Pmax:-33.68dBm RBW: 1 MHz



Spurious emissions under normal conditions

in according to FCC Part 74.861

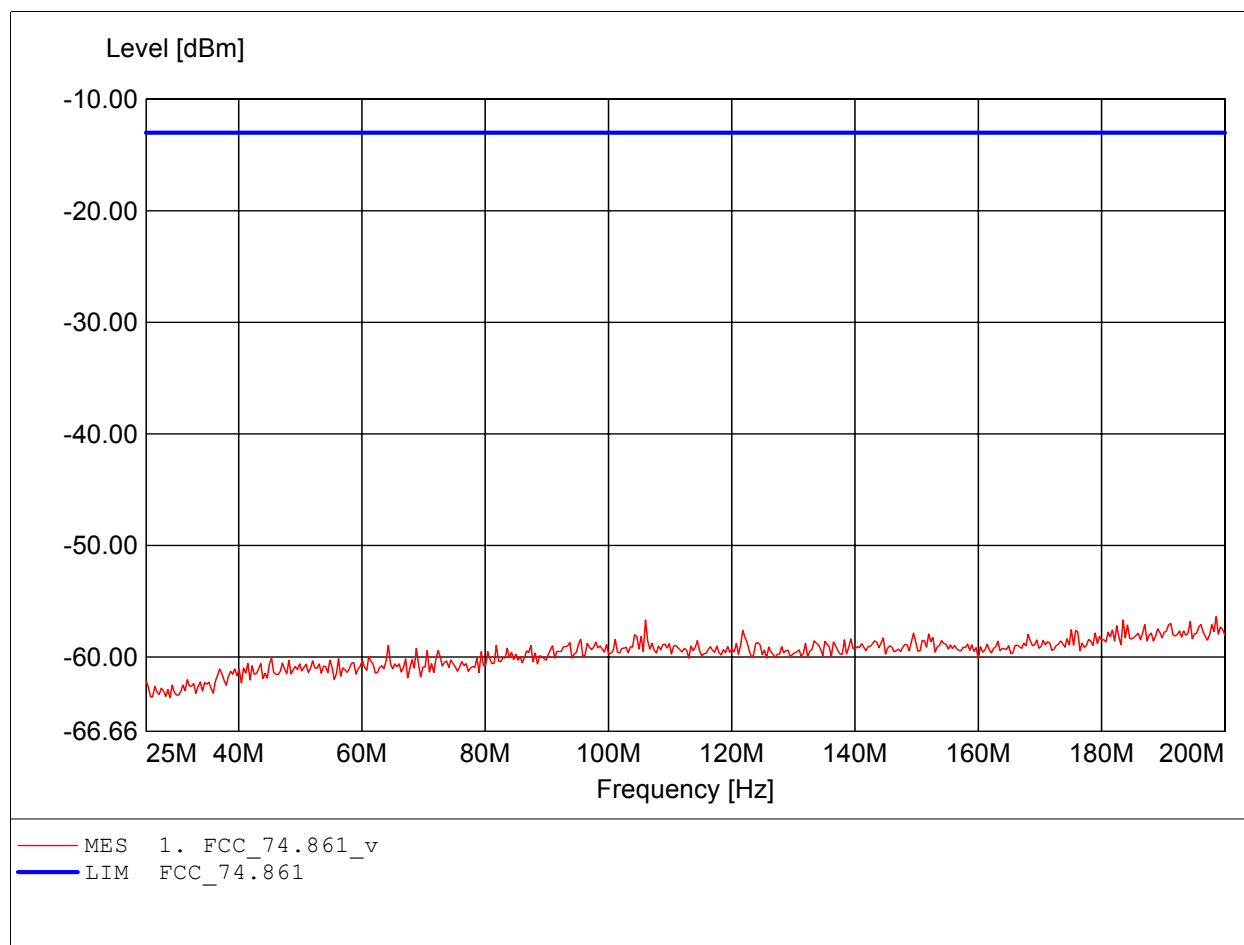
Order Number : W6M20607-7162 710.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:196.142MHz Pmax:-57.16dBm RBW: 100 kHz



Spurious emissions under normal conditions

in according to FCC Part 74.861

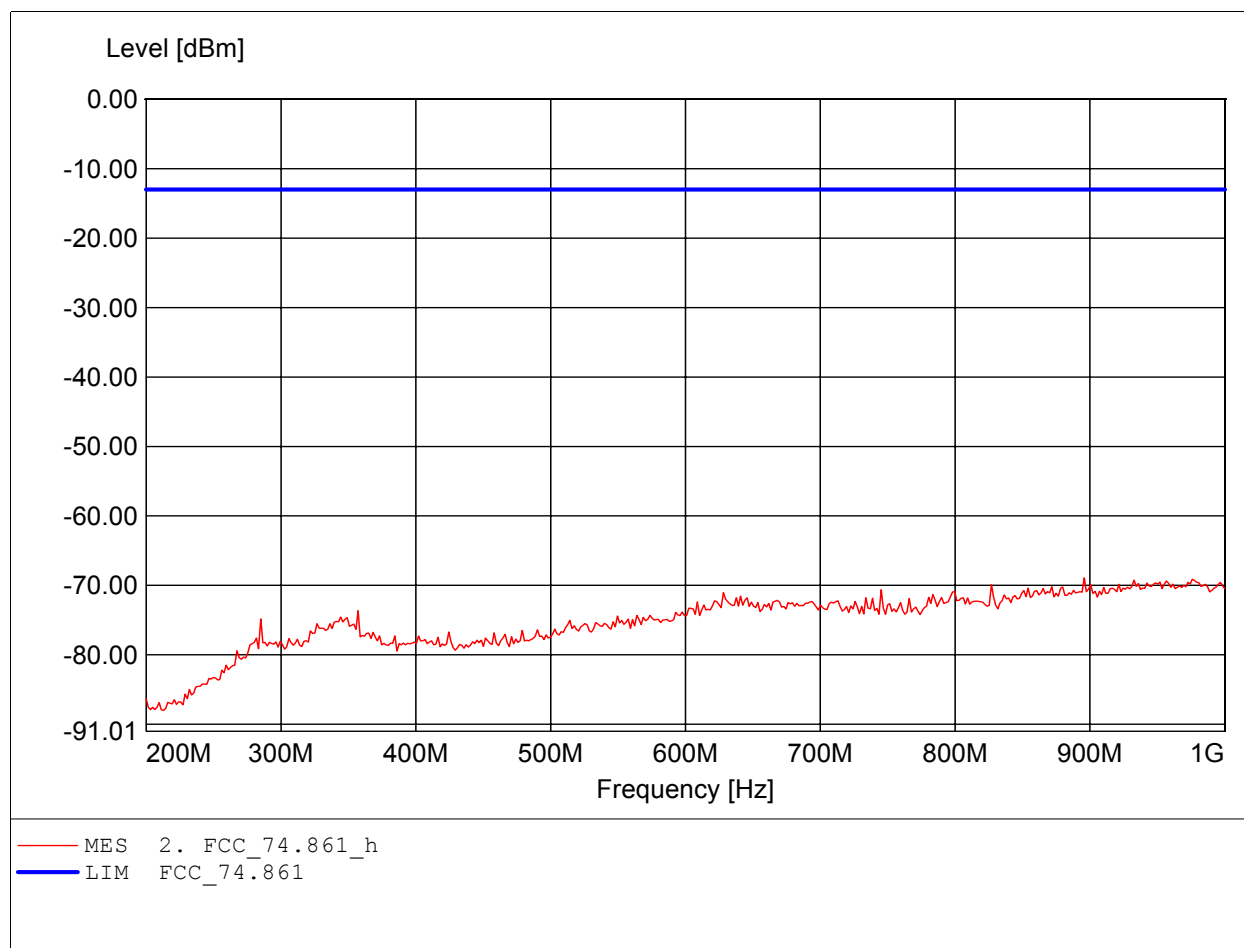
Order Number : W6M20607-7162 710.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:198.597MHz Pmax:-56.39dBm RBW: 100 kHz



Spurious emissions under normal conditions

in according to FCC Part 74.861

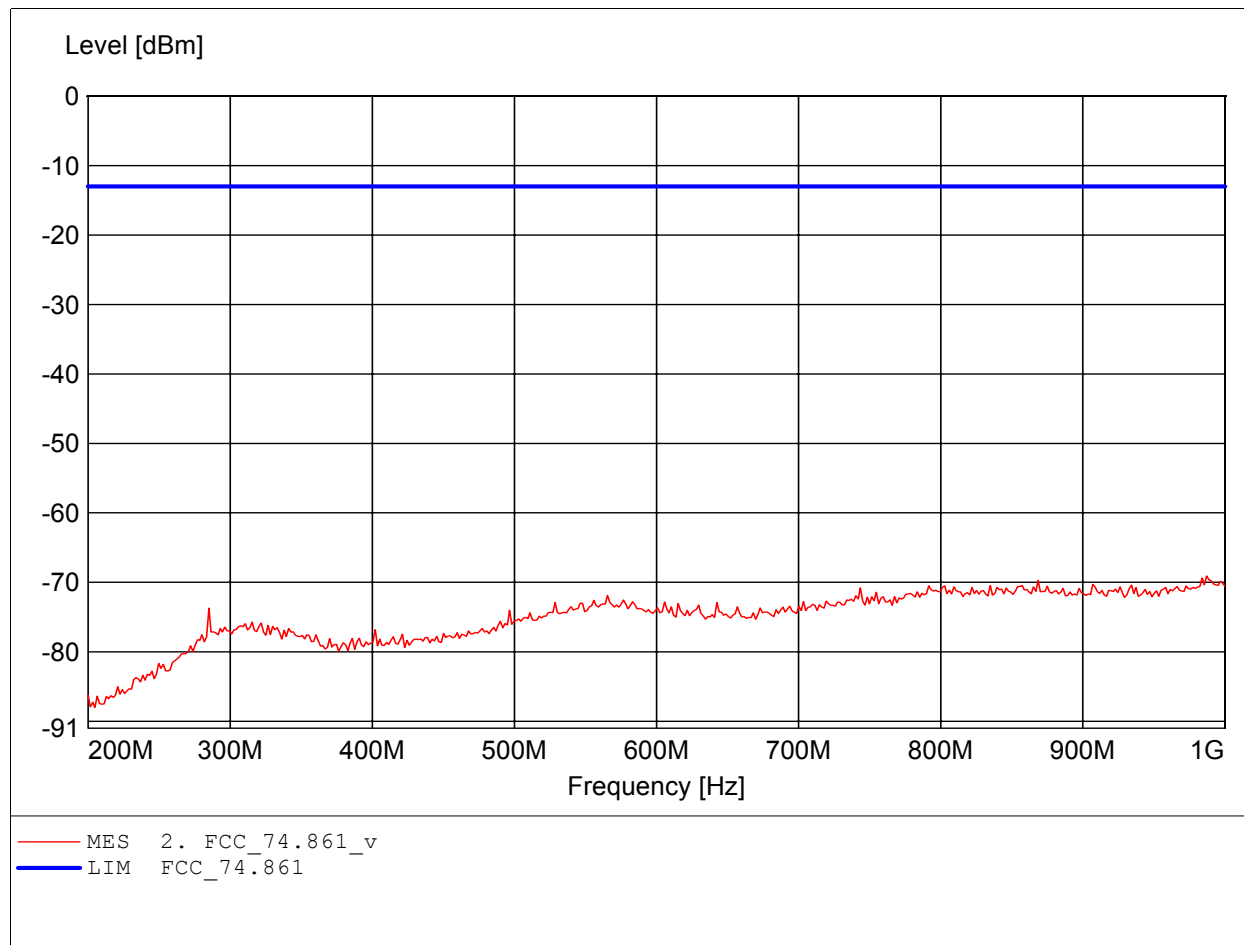
Order Number : W6M20607-7162 710.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.: 0.1-1GHz
Freq:895.792MHz Pmax:-68.93dBm RBW: 100 kHz



Spurious emissions under normal conditions

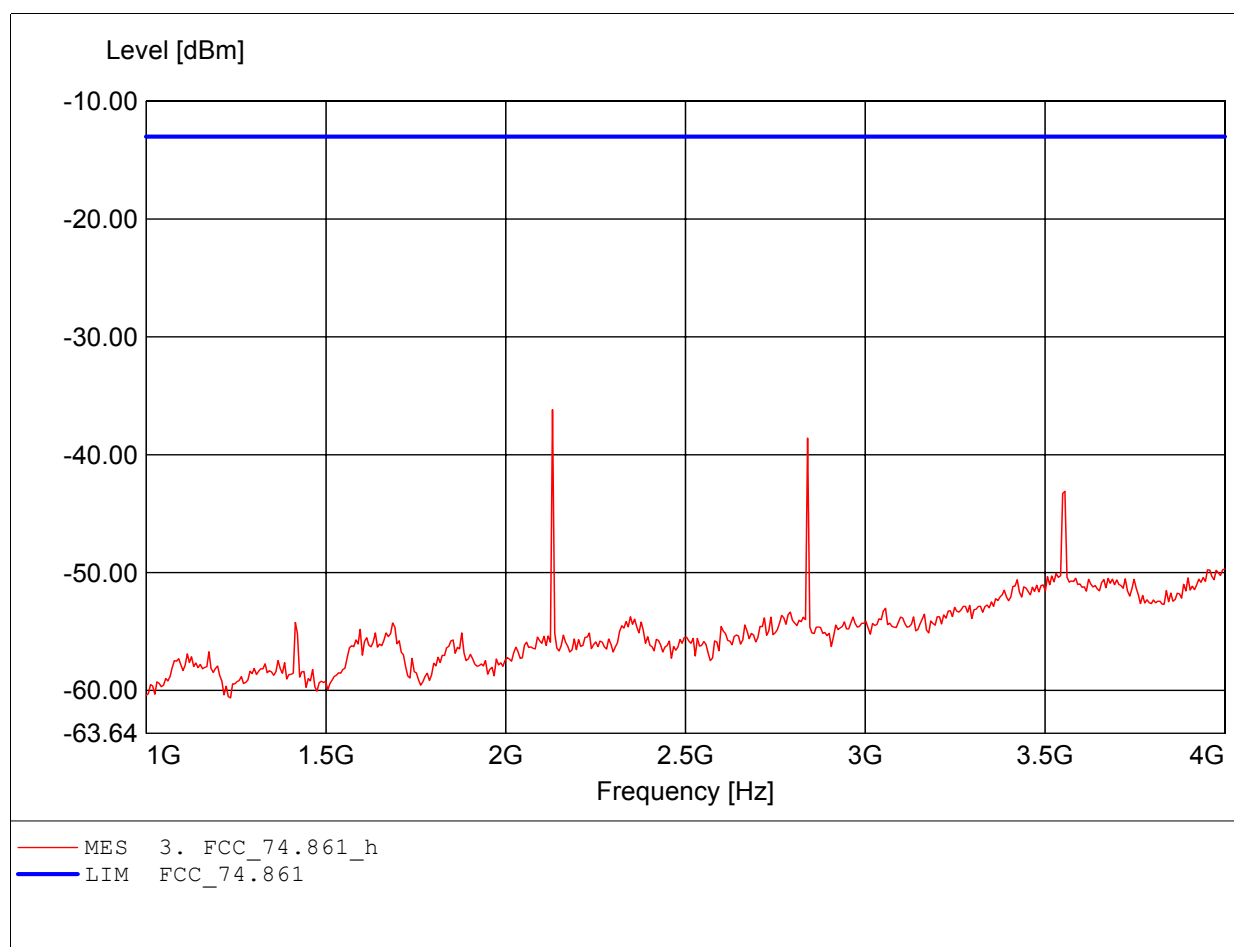
in according to FCC Part 74.861

Order Number : W6M20607-7162 710.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.: 0.1-1GHz
Freq:987.174MHz Pmax:-69.09dBm RBW: 100 kHz



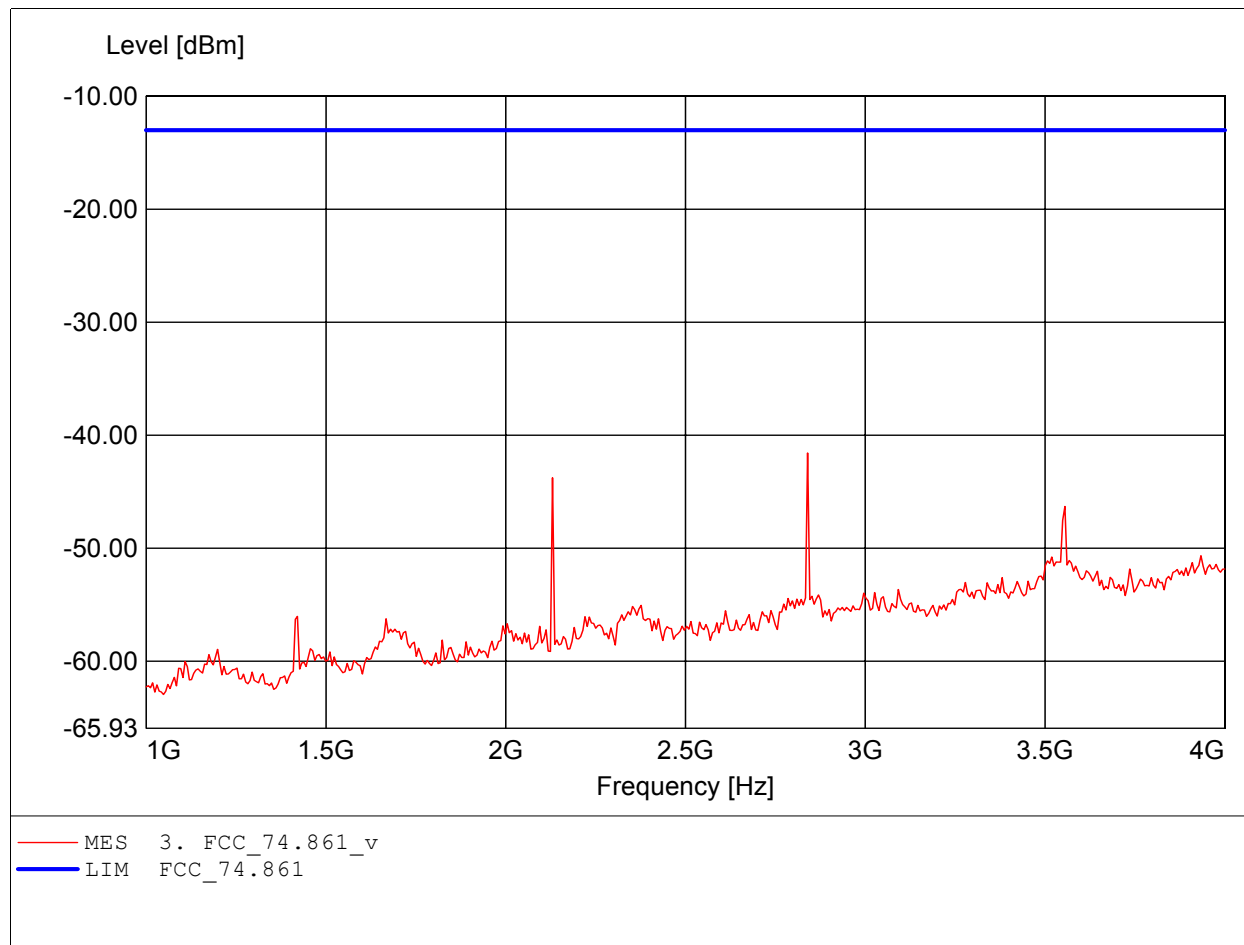
Spurious emissions under normal conditions
in according to FCC Part 74.861

Order Number : W6M20607-7162 710.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.: 1-4GHz
Freq:2.130GHz Pmax:-36.17dBm RBW: 1 MHz



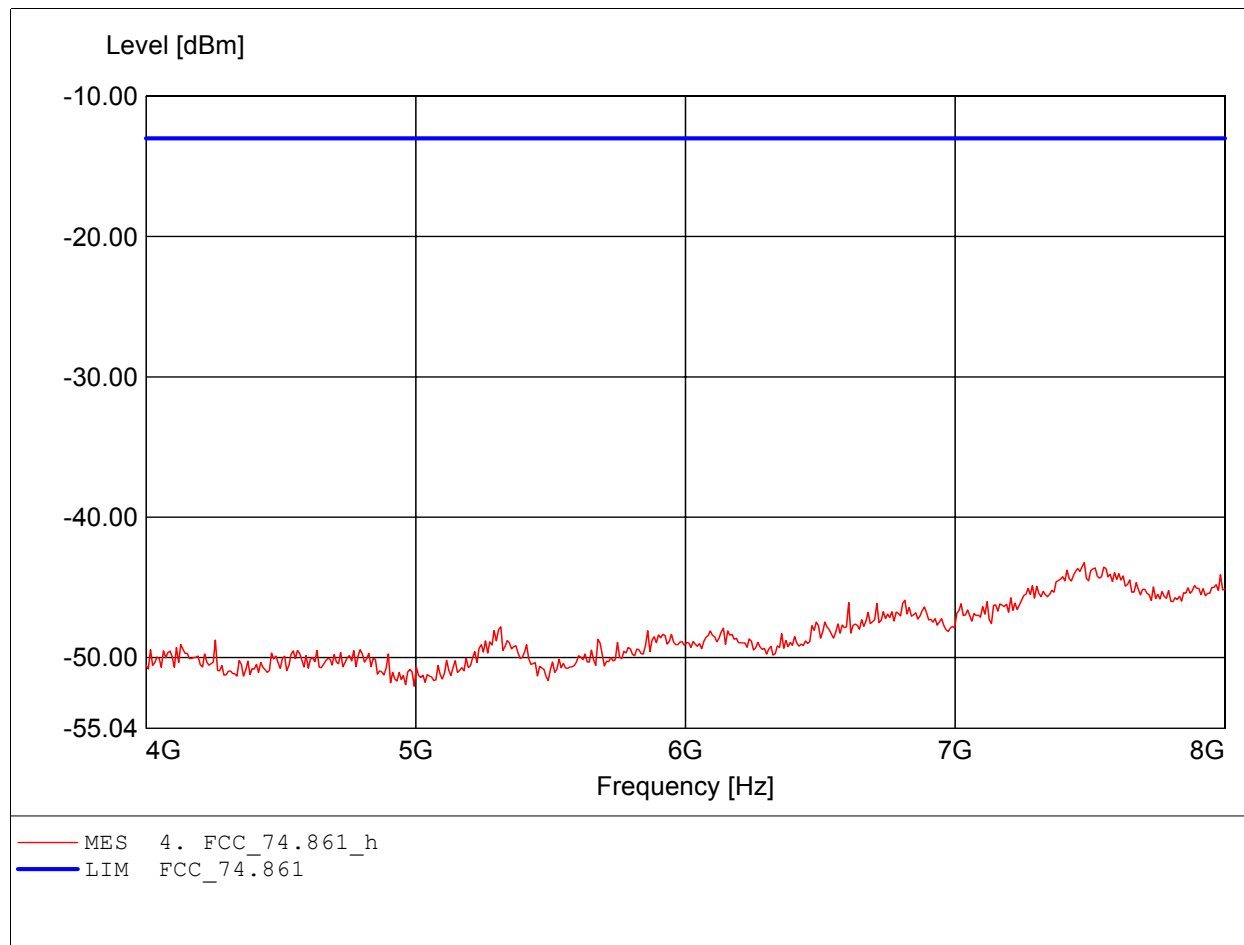
Spurious emissions under normal conditions
in according to FCC Part 74.861

Order Number : W6M20607-7162 710.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.: 1-4GHz
Freq:2.840GHz Pmax:-41.58dBm RBW: 1 MHz



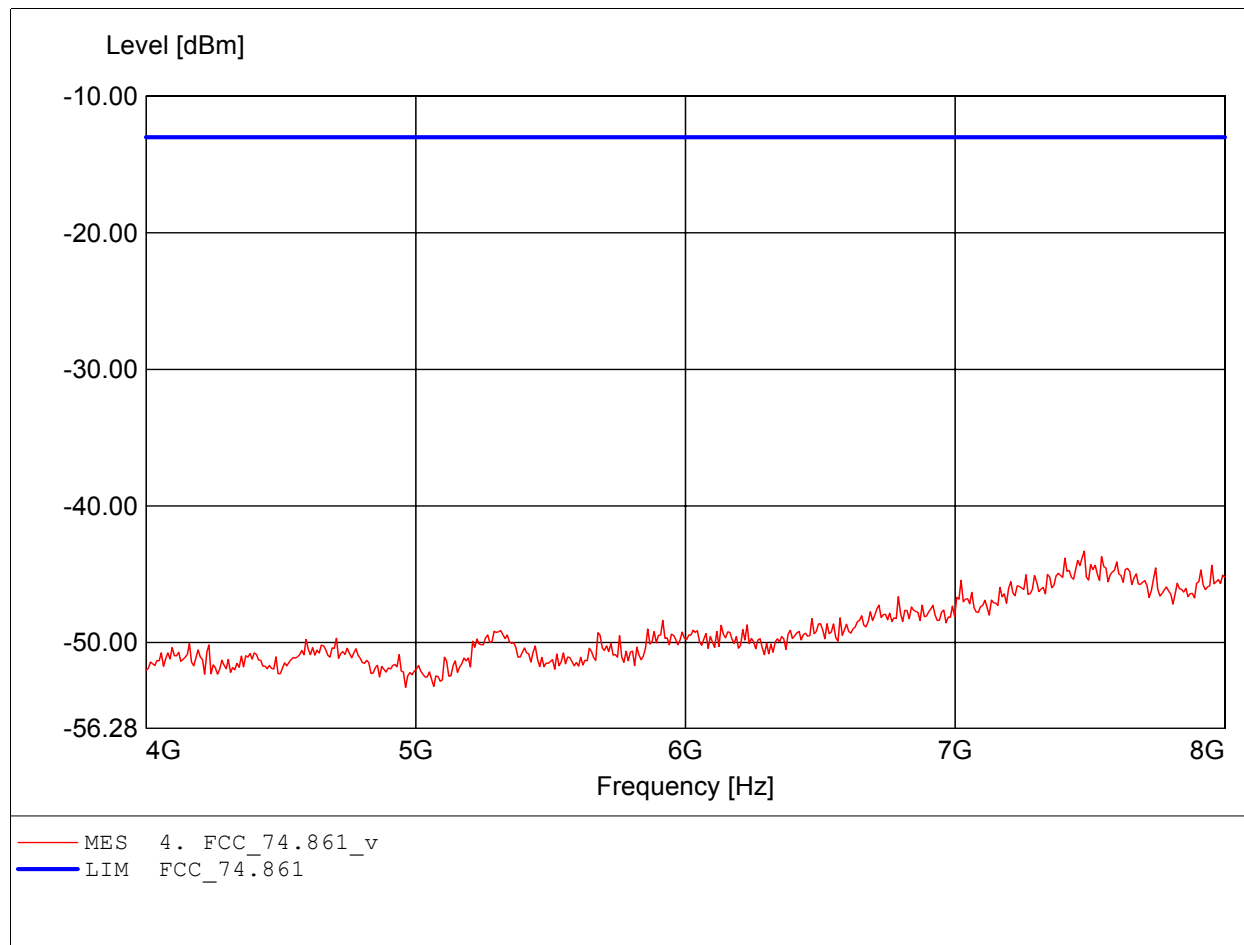
Spurious emissions under normal conditions
in according to FCC Part 74.861

Order Number : W6M20607-7162 710.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 4-8GHz
Freq:7.479GHz Pmax:-43.24dBm RBW: 1 MHz



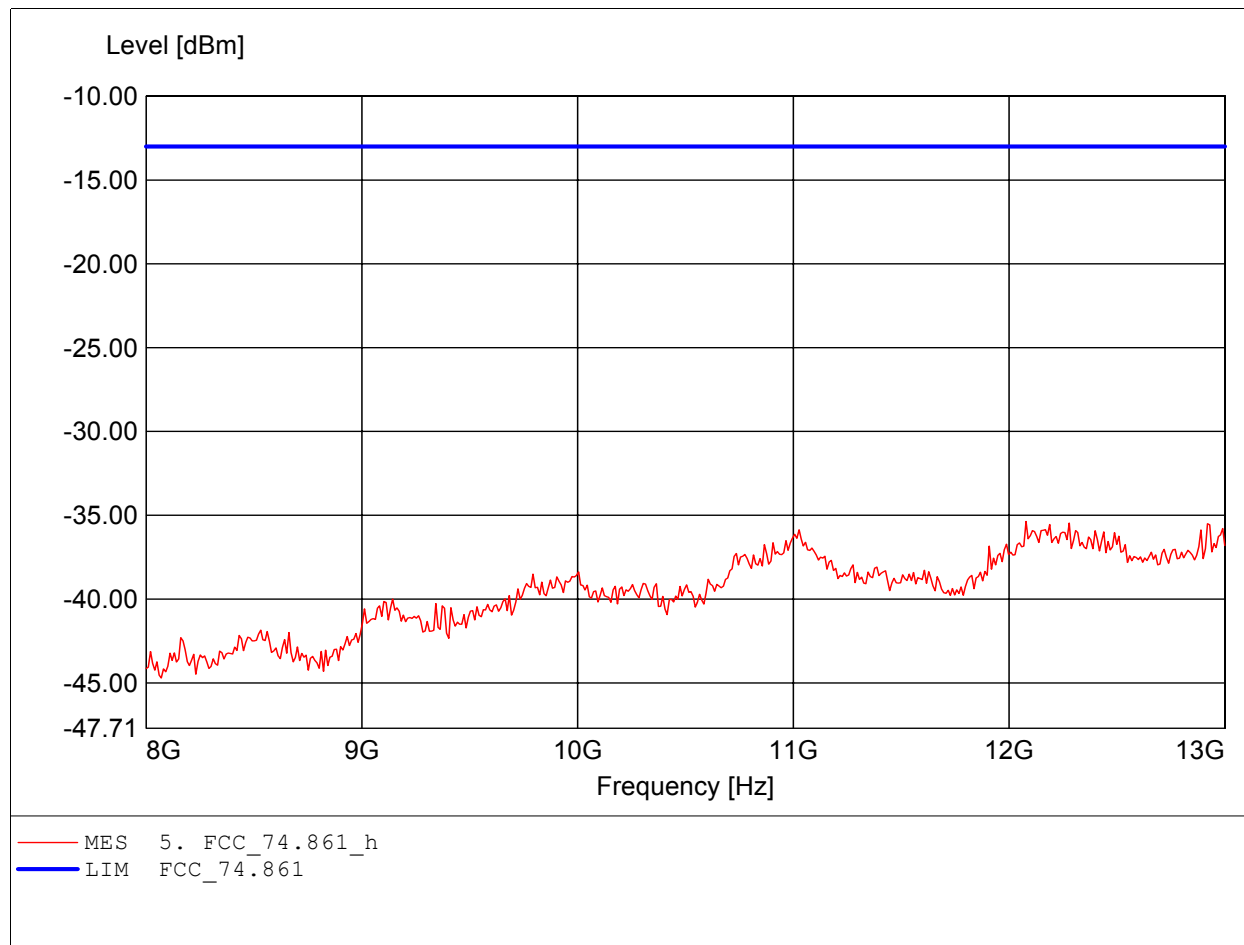
Spurious emissions under normal conditions
in according to FCC Part 74.861

Order Number : W6M20607-7162 710.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 4-8GHz
Freq:7.479GHz Pmax:-43.31dBm RBW: 1 MHz



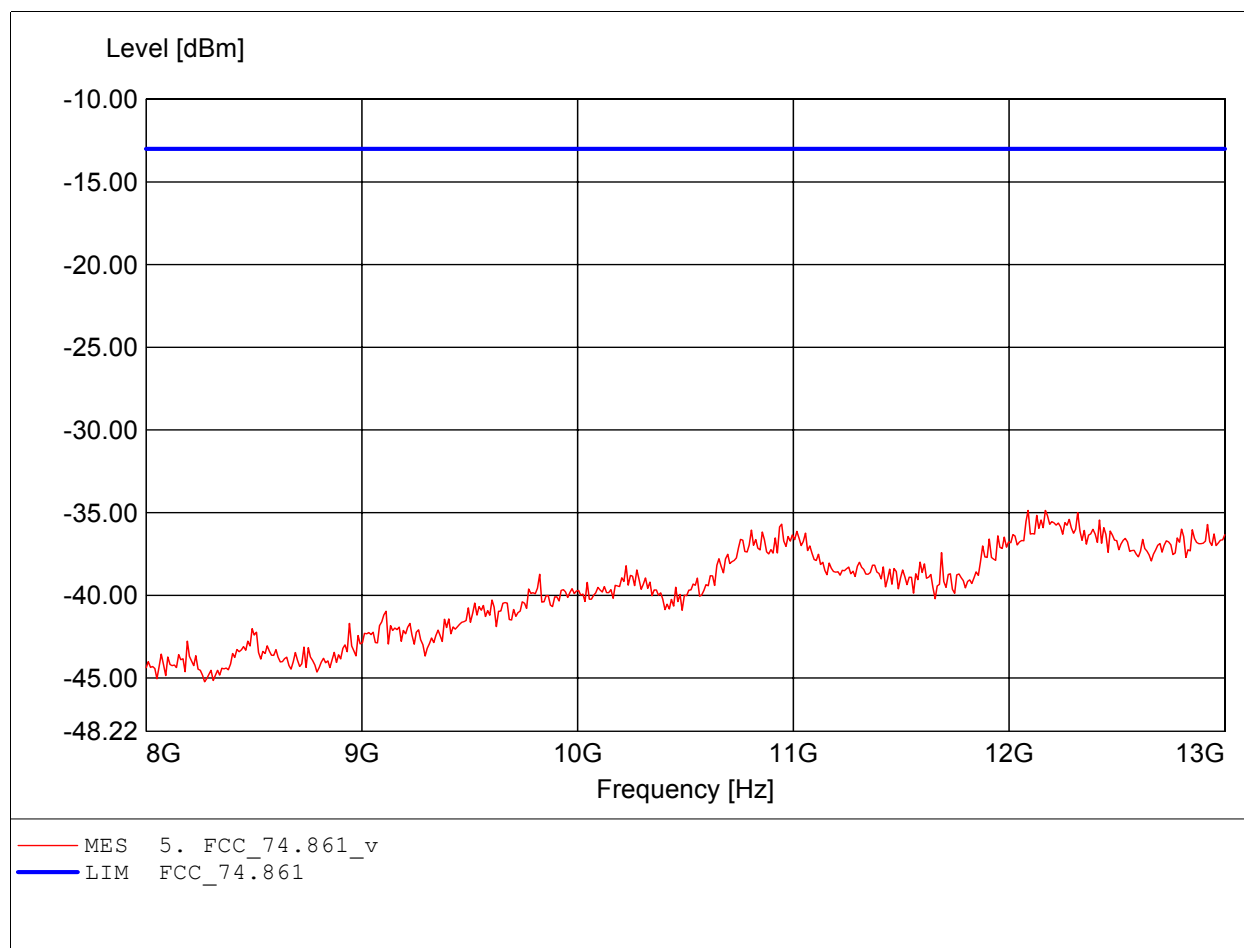
Spurious emissions under normal conditions
in according to FCC Part 74.861

Order Number : W6M20607-7162 710.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 8-18GHz
Freq:12.078GHz Pmax:-35.37dBm RBW: 1 MHz



Spurious emissions under normal conditions
in according to FCC Part 74.861

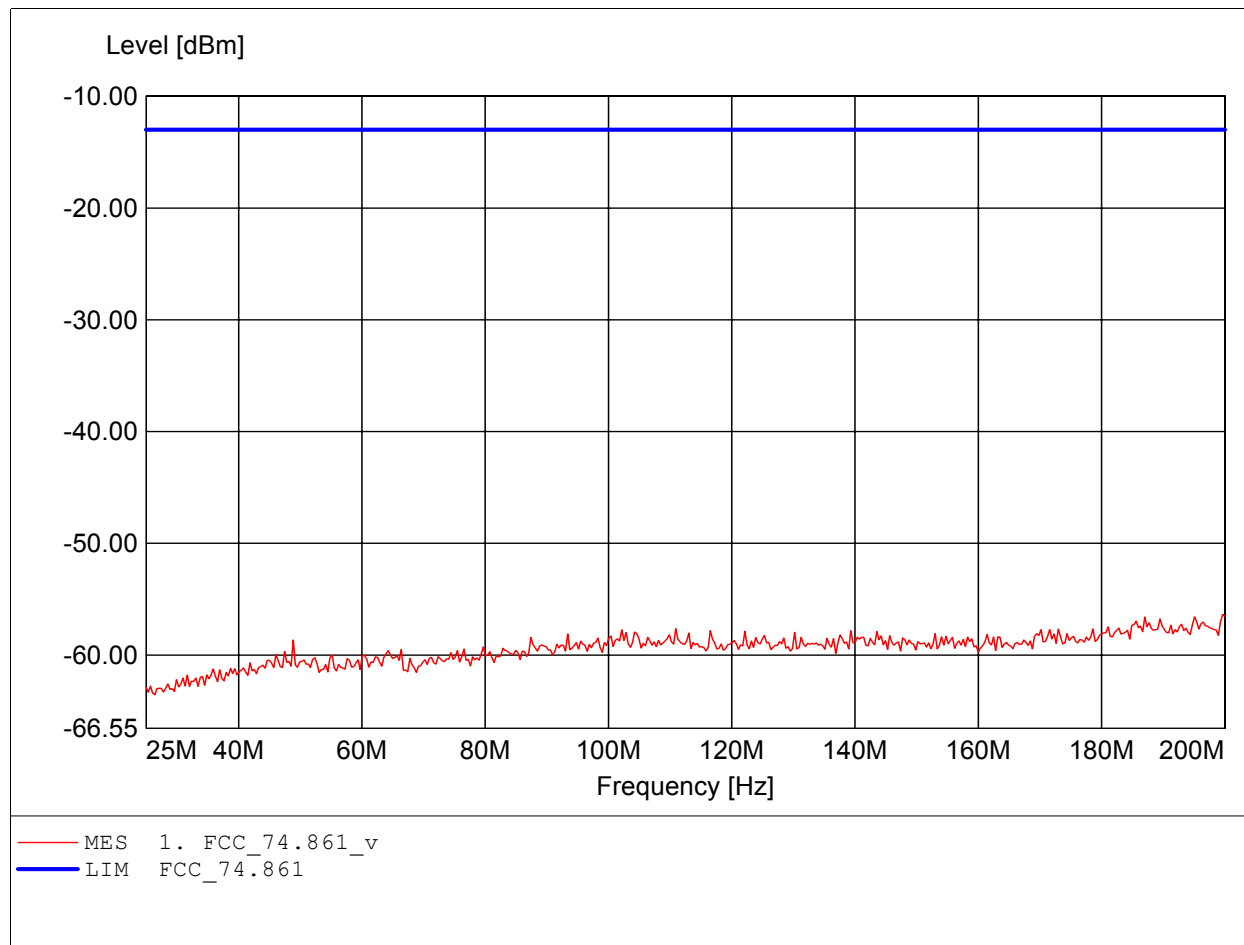
Order Number : W6M20607-7162 710.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 8-18GHz
Freq:12.168GHz Pmax:-34.86dBm RBW: 1 MHz



Spurious emissions under normal conditions

in according to FCC Part 74.861

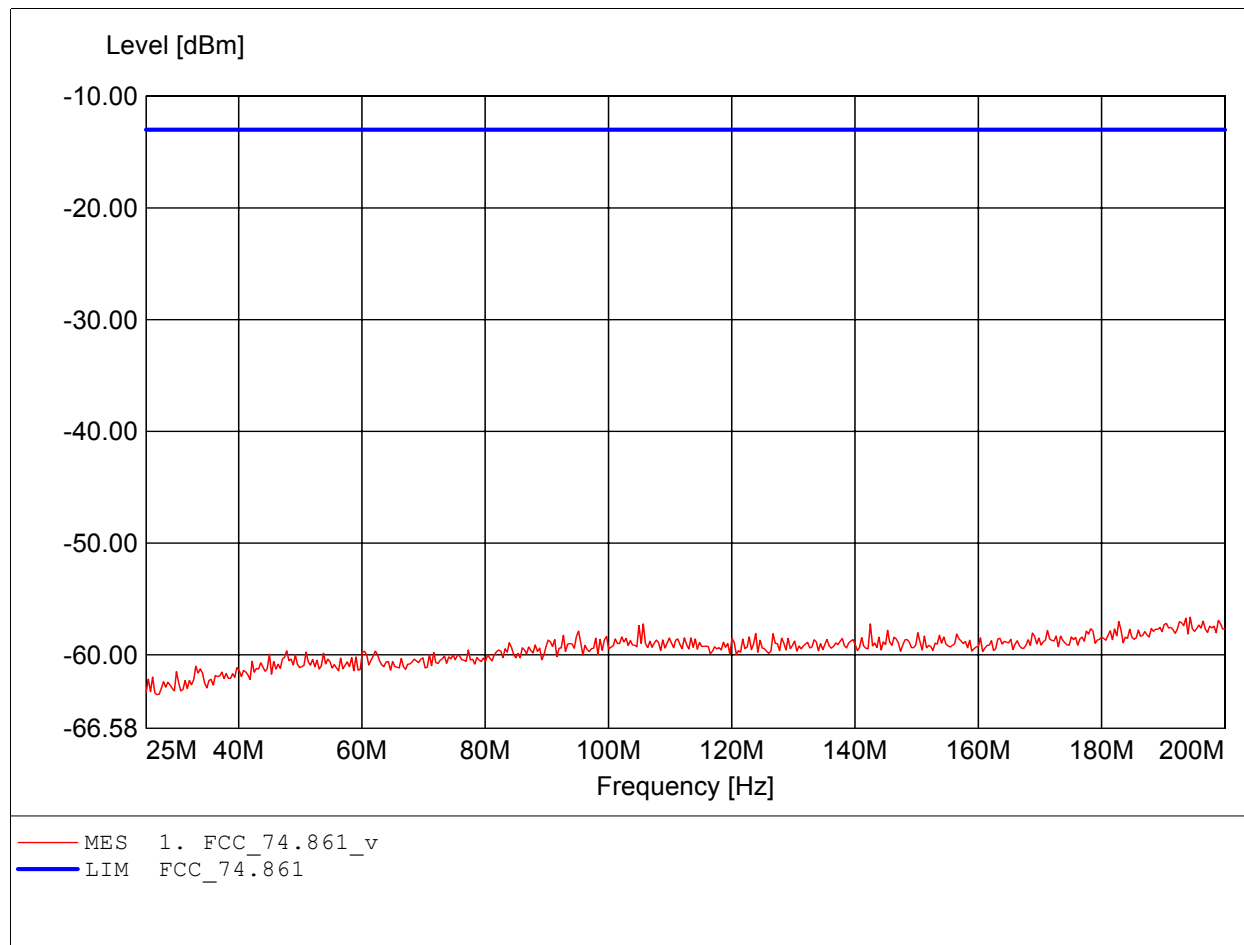
Order Number : W6M20607-7162 805.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:199.649MHz Pmax:-56.35dBm RBW: 100 kHz



Spurious emissions under normal conditions

in according to FCC Part 74.861

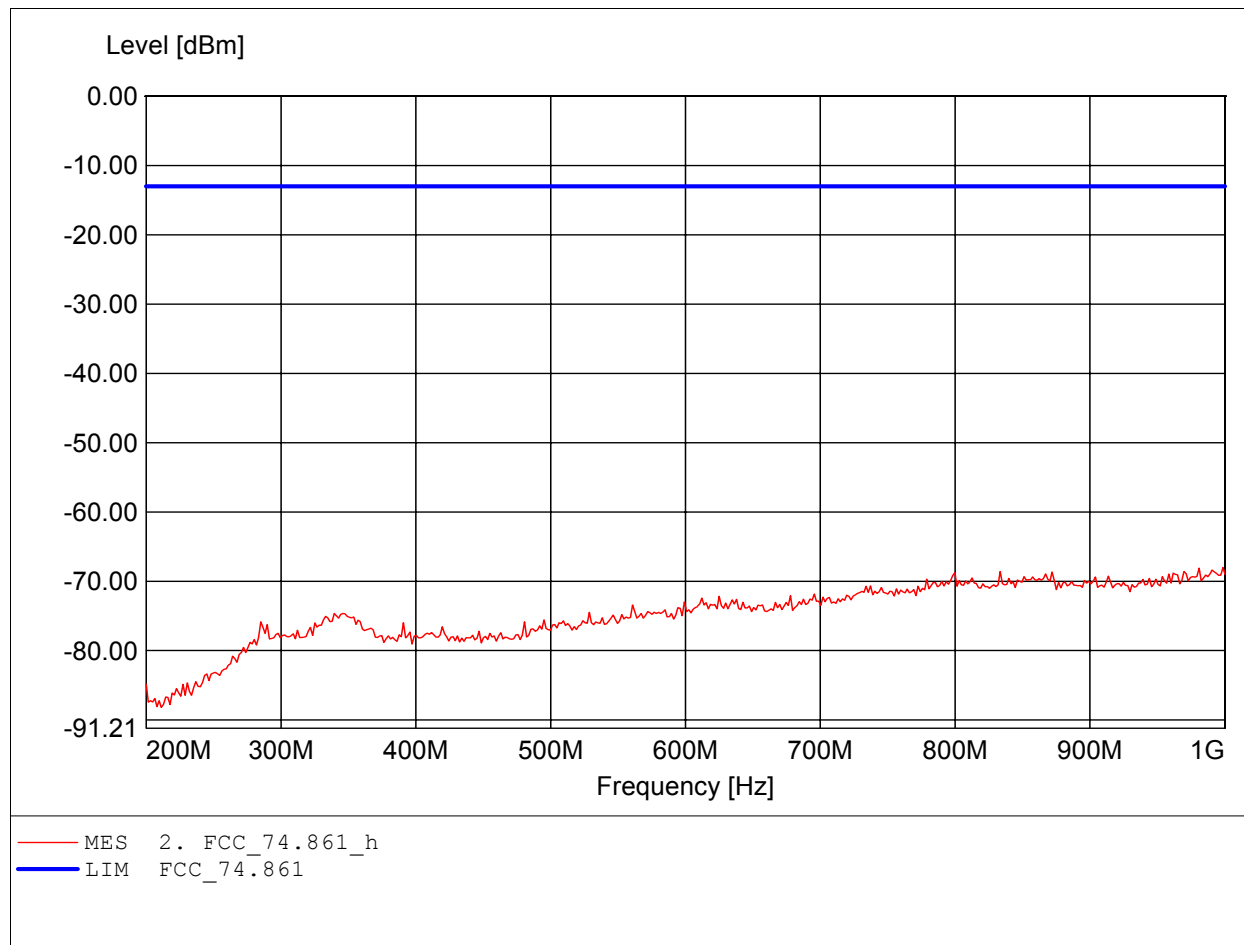
Order Number : W6M20607-7162 805.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:194.389MHz Pmax:-56.64dBm RBW: 100 kHz



Spurious emissions under normal conditions

in according to FCC Part 74.861

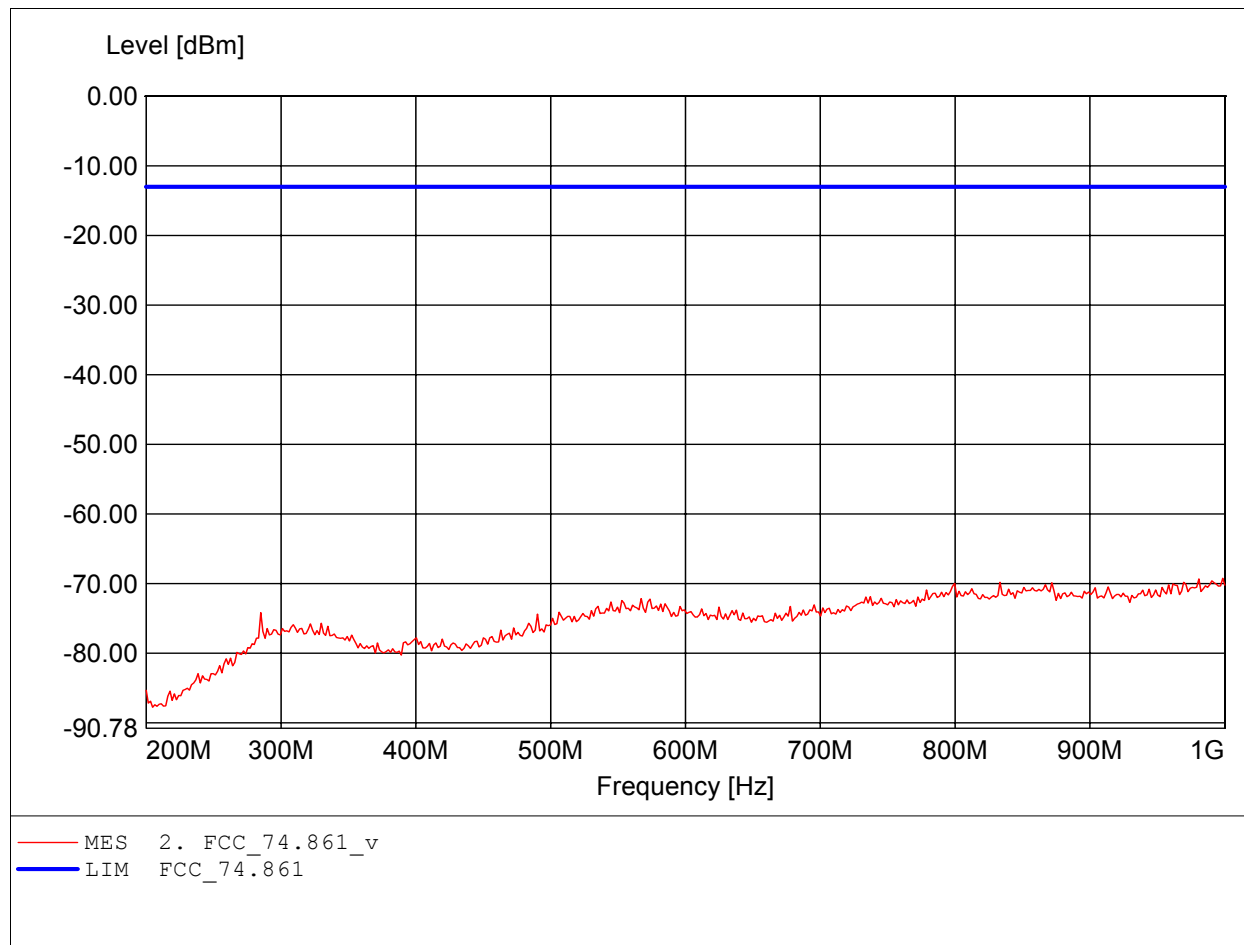
Order Number : W6M20607-7162 805.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.: 0.1-1GHz
Freq:831.012MHz Pmax:-69.89dBm RBW: 100 kHz



Spurious emissions under normal conditions

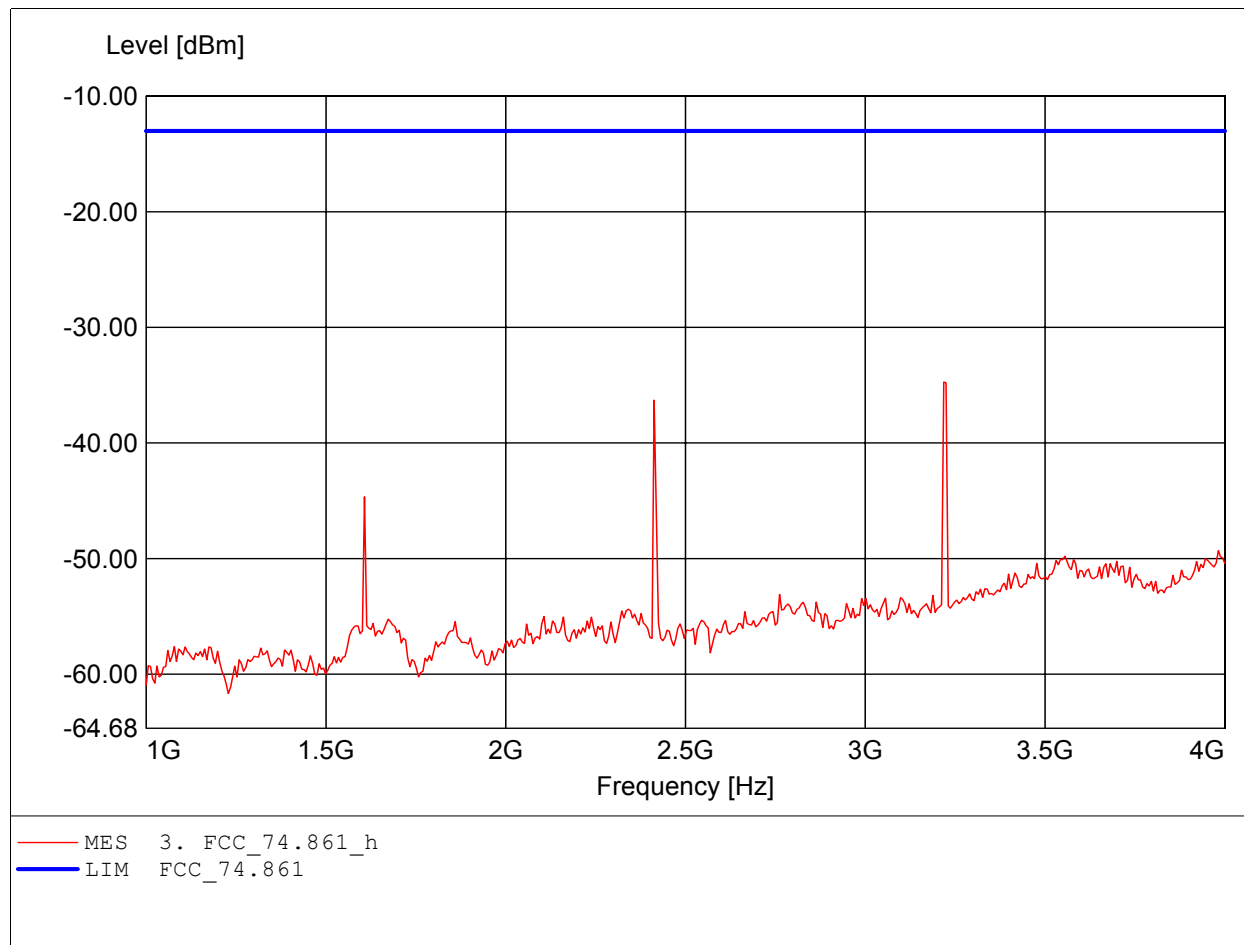
in according to FCC Part 74.861

Order Number : W6M20607-7162 805.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.: 0.1-1GHz
Freq:806.012MHz Pmax:-71.78dBm RBW: 100 kHz



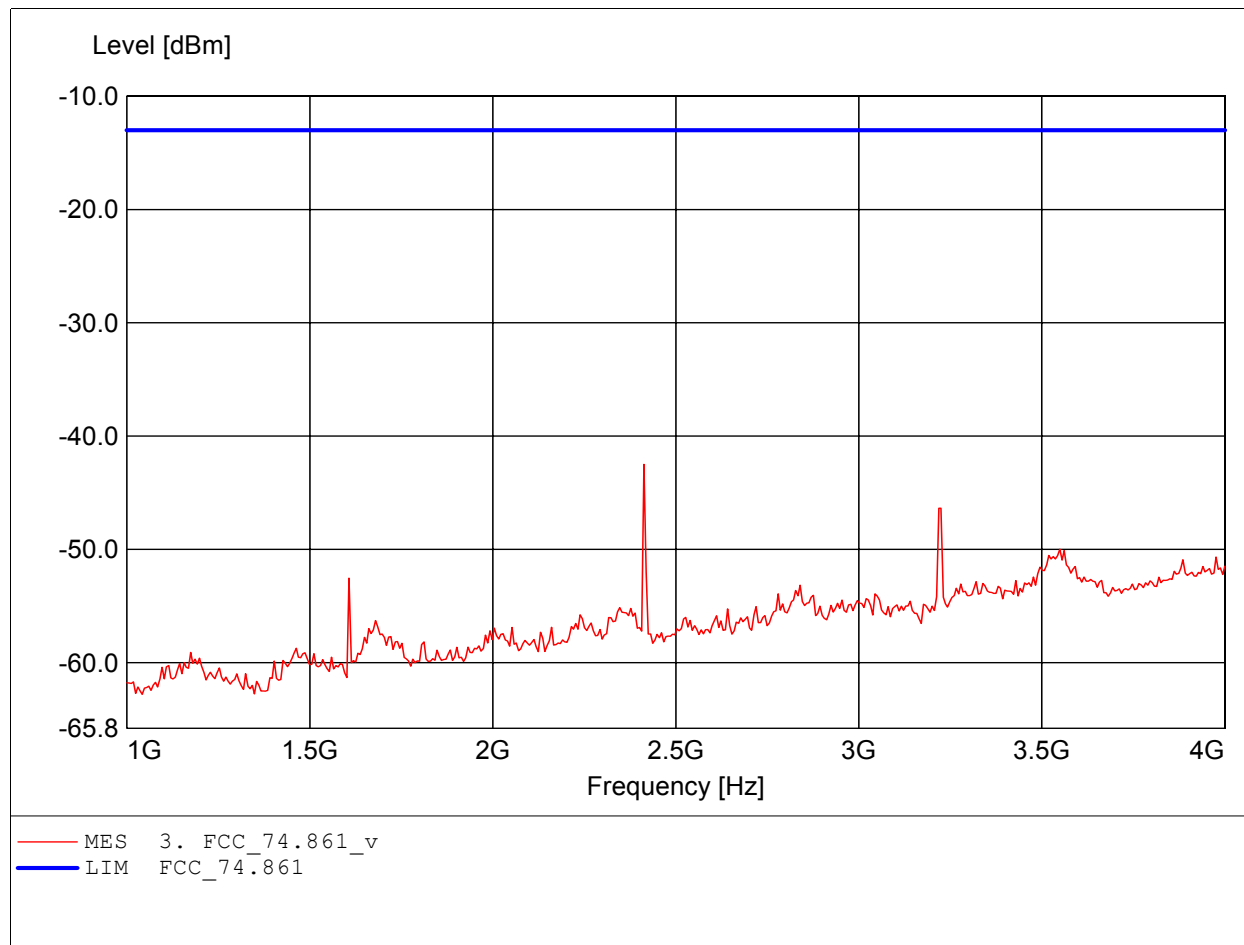
Spurious emissions under normal conditions
in according to FCC Part 74.861

Order Number : W6M20607-7162 805.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.: 1-4GHz
Freq:3.218GHz Pmax:-34.73dBm RBW: 1 MHz



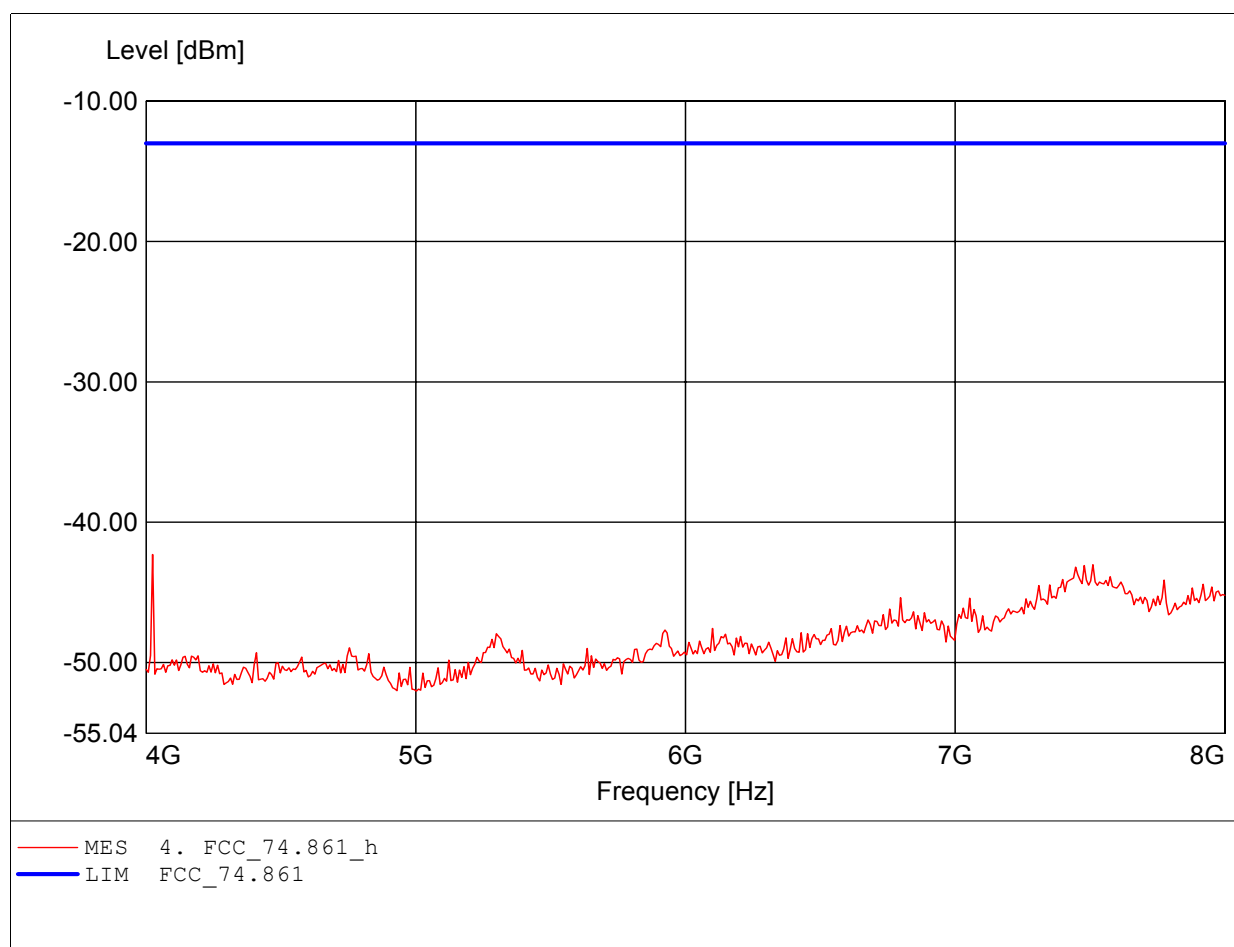
Spurious emissions under normal conditions
in according to FCC Part 74.861

Order Number : W6M20607-7162 805.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.: 1-4GHz
Freq:2.413GHz Pmax:-42.50dBm RBW: 1 MHz



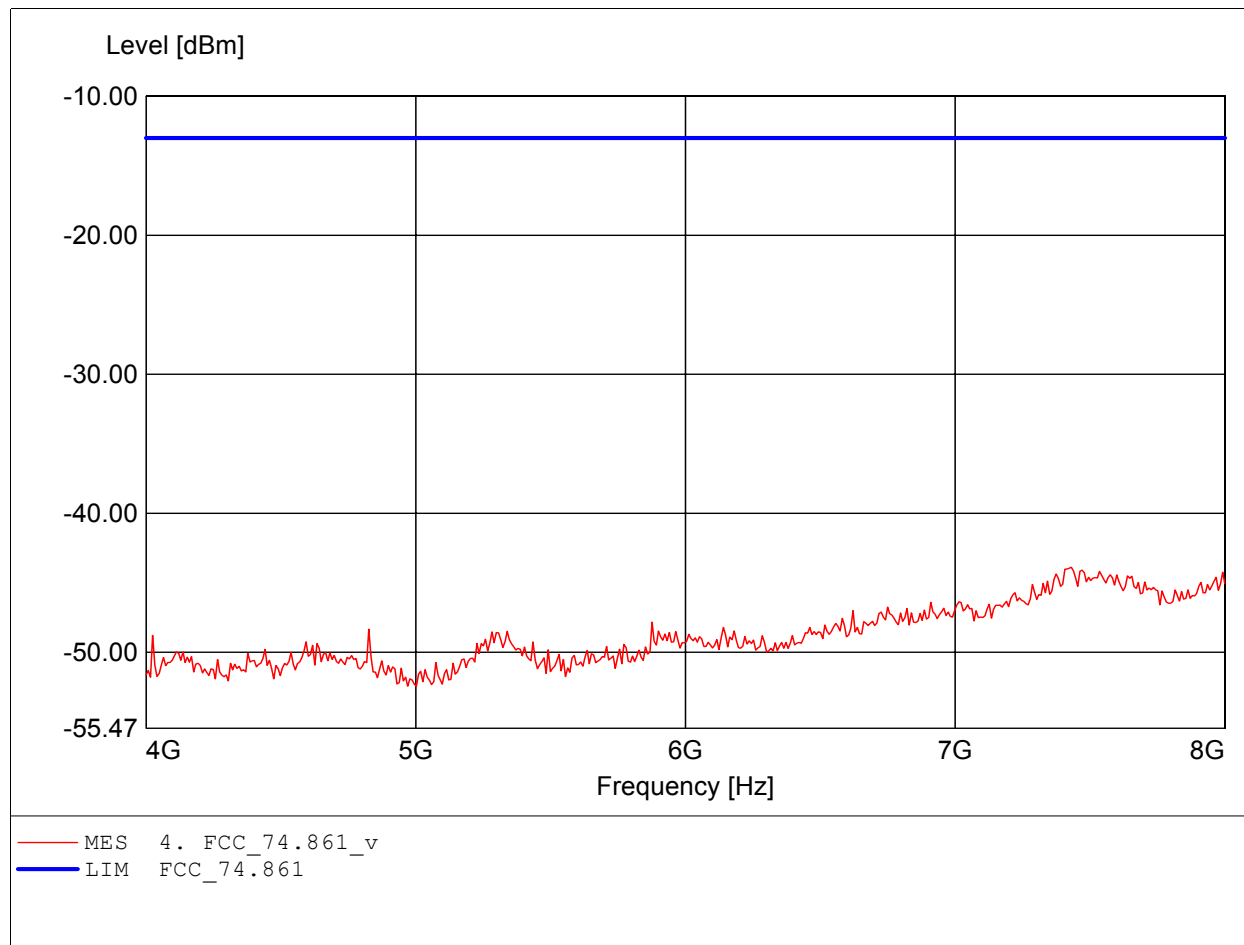
Spurious emissions under normal conditions
in according to FCC Part 74.861

Order Number : W6M20607-7162 805.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 4-8GHz
Freq:4.024GHz Pmax:-42.30dBm RBW: 1 MHz



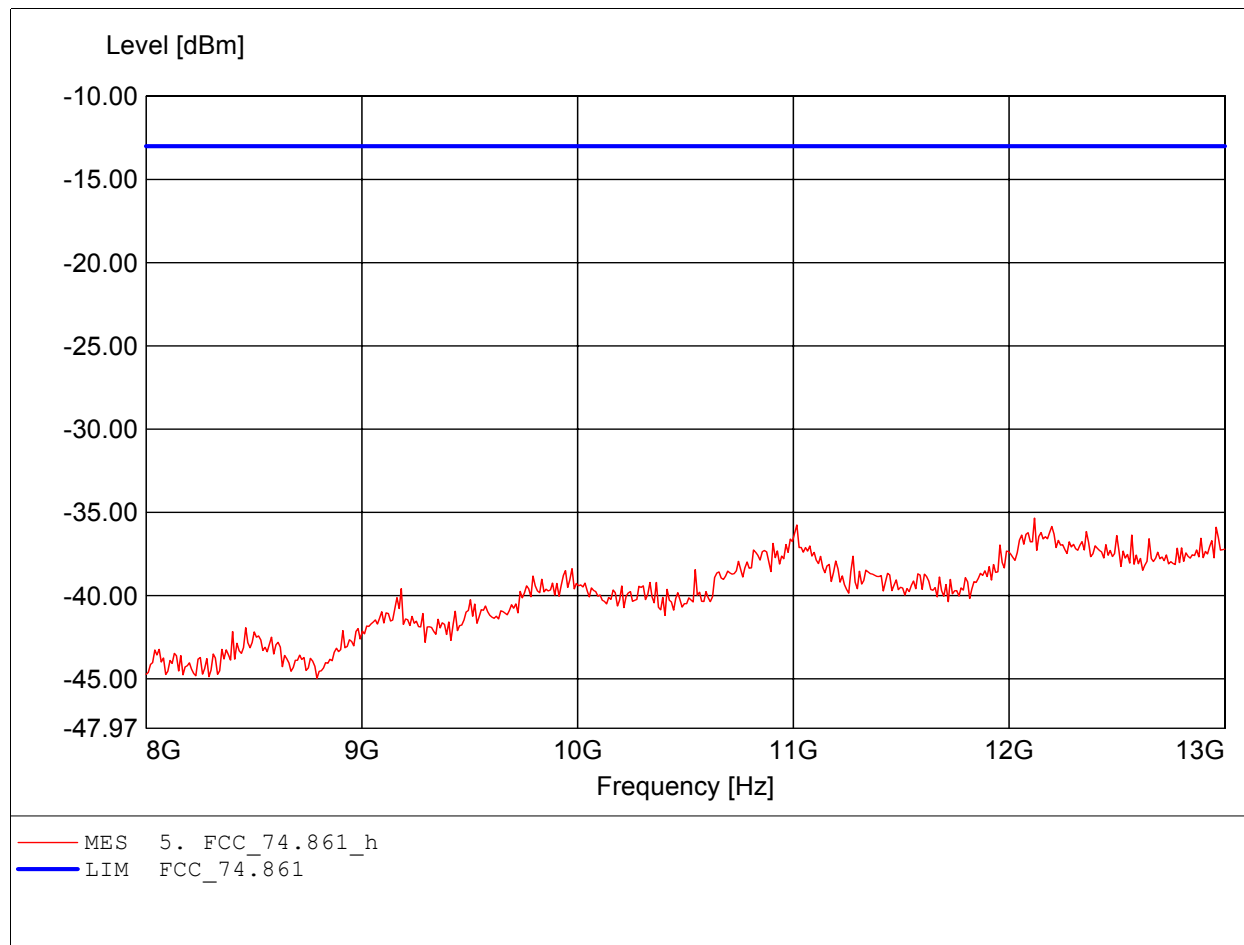
Spurious emissions under normal conditions
in according to FCC Part 74.861

Order Number : W6M20607-7162 805.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 4-8GHz
Freq:7.431GHz Pmax:-43.88dBm RBW: 1 MHz



Spurious emissions under normal conditions
in according to FCC Part 74.861

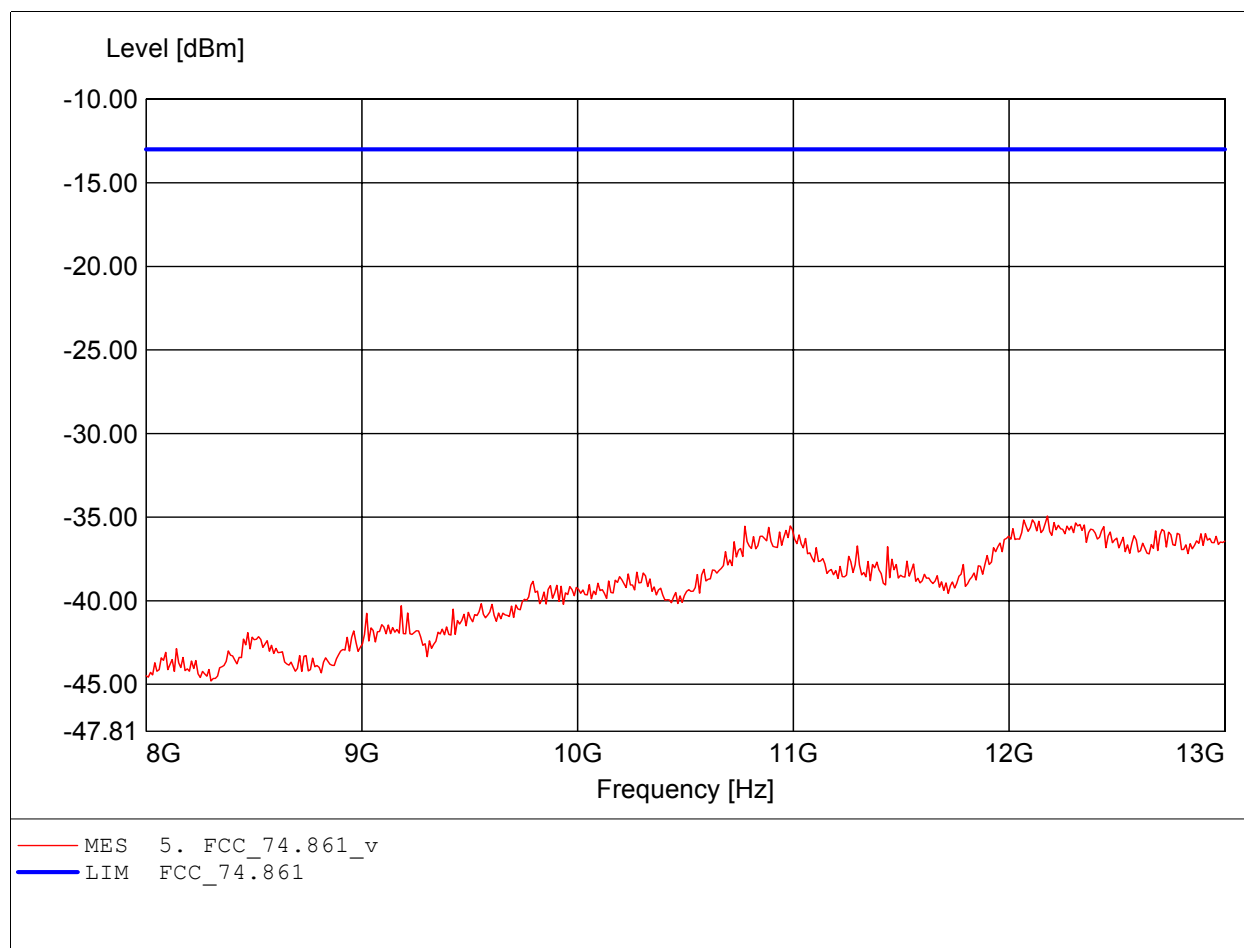
Order Number : W6M20607-7162 805.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 8-18GHz
Freq:12.118GHz Pmax:-35.35dBm RBW: 1 MHz



Spurious emissions under normal conditions

in according to FCC Part 74.861

Order Number : W6M20607-7162 805.0 MHz Tx mode
Test Site / Operator: ETS / Eric
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 9 VDC (battery)
Test Specification: 74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 8-18GHz
Freq:12.178GHz Pmax:-34.94dBm RBW: 1 MHz



Registration number: W6M20607-7162-C-1
FCC ID: QDVUR-M256LC

Appendix F

Line Conducted Emissions

This is not required the sample is battery used.

Registration number: W6M20607-7162-C-1
FCC ID: QDVUR-M256LC

Appendix G

Frequency Stability vs. Temperature

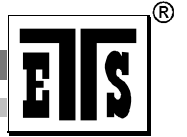
No diagrams
Refer to point 12.2

Registration number: W6M20607-7162-C-1
FCC ID: QDVUR-M256LC

Appendix H

Frequency Stability vs. Voltage

No diagrams
Refer to point 13.2



Registration number: W6M20607-7162-C-1
FCC ID: QDVUR-M256LC

Appendix I

Pictures