



ETS Dr.Genz Taiwan PS Co., LTD.

FCC Registration No.: 930600

Industry Canada filed test laboratory Reg. No. IC 5679

A2LA Cert.No.: 2300.01

PTCRB Accredited Type Certification Test House

FCC

TEST - REPORT

FCC RULES PARTS 74 Subpart H, Section 74.861

Test report no.:W6M20611-7598-C-1

FCC ID: M5X-ACT8T

Registration number: W6M20611-7598-C-1
 FCC ID: M5X-ACT8T

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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 is 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:

December 25, 2006

Jay Chaing



Date

ETS-Lab.

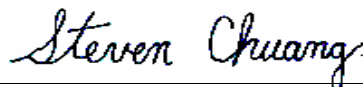
Name

Signature

Technical responsibility for area of testing:

December 25, 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 : MIPRO Electronics Co., Ltd.

Street : 814 Pei-kang Road

Town : Chia-yi, 600

Country : Taiwan, R.O.C.

Telephone : +886-5-238-0809

Fax : +886-5-238-0803

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1.4 Application details

Date of receipt of application : November 27, 2006
 Date of receipt of test sample : November 30, 2006
 Date of test : From December 01, 2006 to December 22, 2006

1.5 General information of Test item

Type of test item : TRANSMITTER
 Model Number : ACT-8T
 Brand Name : MIPRO
 Serial number : without
 Photos : see Annex

Technical data

Frequency band :

Frequency(MHz)	TV Band	Used Band
26.100-26.480	<input type="checkbox"/>	<input type="checkbox"/>
54.000-72.000	<input checked="" type="checkbox"/>	<input type="checkbox"/>
76.000-88.000	<input checked="" type="checkbox"/>	<input type="checkbox"/>
161.625-161.775	<input type="checkbox"/>	<input type="checkbox"/>
174.000-216.000	<input checked="" type="checkbox"/>	<input type="checkbox"/>
450.000-451.000	<input type="checkbox"/>	<input type="checkbox"/>
455.000-456.000	<input type="checkbox"/>	<input type="checkbox"/>
470.000-488.000	<input type="checkbox"/>	<input type="checkbox"/>
488.000-494.000	<input checked="" type="checkbox"/>	<input type="checkbox"/>
494.000-608.000	<input checked="" type="checkbox"/>	<input type="checkbox"/>
614.000-806.000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
944.000-952.000	<input type="checkbox"/>	<input type="checkbox"/>

Frequency (ch A) : 615MHz
 Frequency (ch B) : 711MHz
 Frequency (ch C) : 805MHz

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Antenna Type : monopole antenna
Antenna Gain : 2.4 dBi
Power supply : 6~8.4 VDC
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 3 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	2006/10/16	2007/10/15
ETSTW-CE 002	PREREGULATOR MODE DC POWER SUPPLY	None	None		Function Test	
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	2006/10/16	2007/10/15
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2006/10/16	2007/10/15
ETSTW-CE 006	IMPULS-BEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	In House Certificate	
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	2006/8/17	2007/8/16
ETSTW-CE 012	Dual-Phase-V-Network	NNB-2/16Z	03/10201	Telemeter	2006/6/13	2007/6/12
ETSTW-CE 013	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T4-02	20242	FCC	2005/12/8	2007/12/7
ETSTW-CE 014	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T2-02	20241	FCC	2005/12/7	2007/12/6
ETSTW-CE 015	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T8-02	20307	FCC	2006/11/7	2008/11/6
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2006/11/21	2007/11/20
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	2006/10/20	2007/10/19
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2006/10/30	2007/10/29
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2006/10/12	2007/10/11
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	MICROWAVE HORN ANTENNA	AT4002A	306915	AR	Function Test	
ETSTW-RE 021	SWEEP GENERATOR	SWM05	835130/010	R&S	2006/10/11	2007/10/10
ETSTW-RE 027	Passive Loop Antenna	6512	34563	EMCO	2004/6/30	2007/6/29
ETSTW-RE 028	Log-Periodic Dipole Array 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

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ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2006/10/11	2007/10/10
ETSTW-RE 033	4CH 1GHz 5GS/s DSO	WAVERUNNER 6100A	LCRY0604P14508	LeCroy	2006/7/27	2007/7/26
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2005/10/17	2007/10/16
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	2006/7/28	2007/7/27
ETSTW-GSM 18	AUDIO ANALYZER	UPL16	100173	R&S	2006/10/28	2007/10/27

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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 monopole 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)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Modulation Deviation	2.1047 (b); 74.861 (e)(2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Audio Frequency Response	2.1047 (a)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Occupied Bandwidth / Emission Mask	2.1049 (c)(1); 74.861 (e)(5)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions at Antenna Terminals	2.1051 74.861(e)(6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Spurious Emission	2.1053 74.861(e)(6)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Line Conducted Emissions	15.207	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frequency Stability vs. Temperature	2.1055 (b); 74.861(e)(4)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Frequency Stability vs. Voltage	2.1055 (a)(1); 74.861 (e)(4)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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	--
711 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.

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 055

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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.

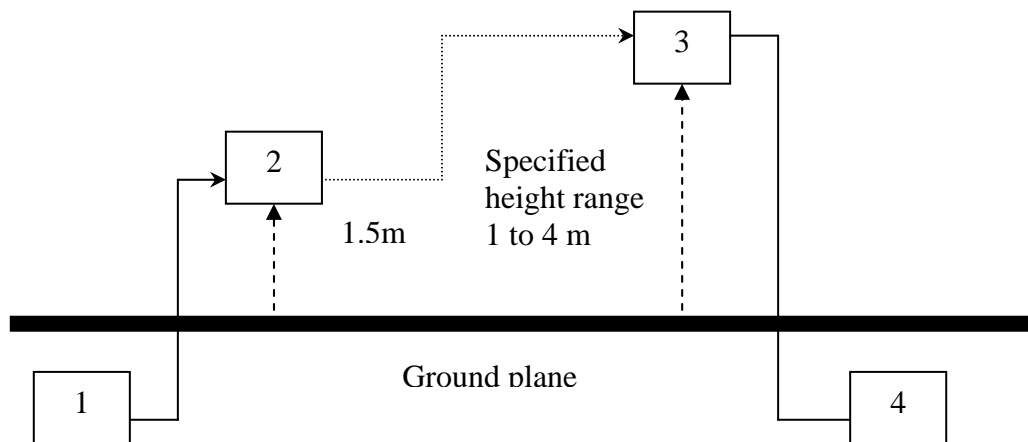
Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

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.

The measurement will be repeated in horizontal position.

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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	15.16
711 MHz	12.29
805 MHz	13.81

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 017 ETSTW-RE 021
 ETSTW-RE 028 ETSTW-RE 029 ETSTW-RE 030 ETSTW-RE 042
 ETSTW-RE 043 ETSTW-RE 044

Comment: Please see attached diagram as appendix .

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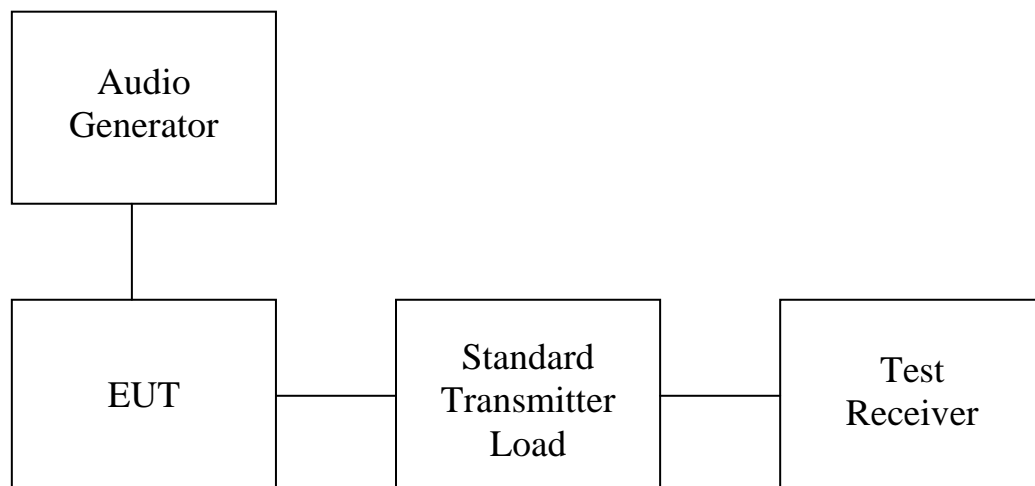
6 Modulation Deviation , FCC 2.1047 (b) ; 74.861(e)

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 : This test is not applicable because this device is digital modulation.

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 055 ETSTW-GSM 18

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7 Audio frequency response , FCC 2.1047 (a)

7.1 Test procedure

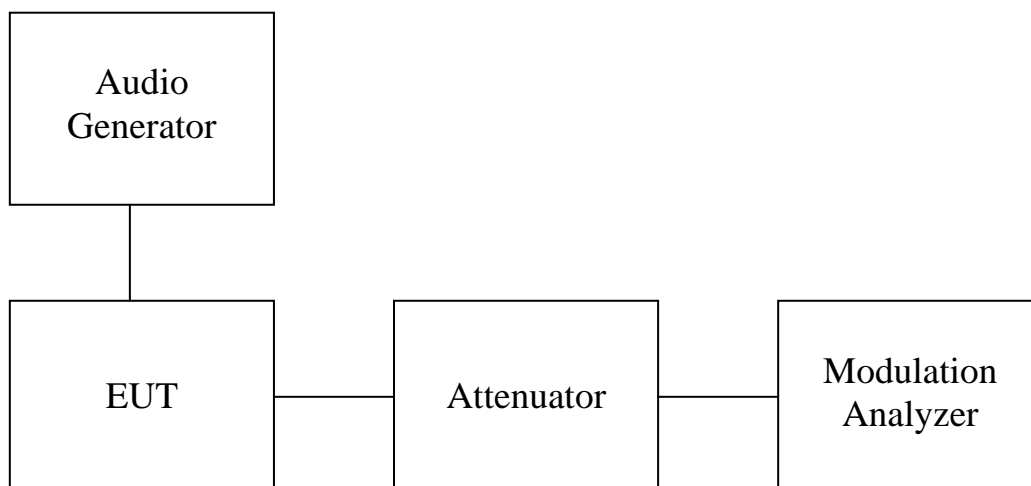
The audio frequency response is the degree of closeness to which the frequency deviation of the transmitter follows a prescribed characteristic.

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 : This test is not applicable because this device is digital modulation.

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 055 ETSTW-GSM 18

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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	--
Channel B	--
Channel C	--

2500 Hz Modulation

Occupied Channel Bandwidth (kHz)	
Channel A	--
Channel B	--
Channel C	--

Comment : This test is not applicable because this device is digital modulation.

99% Occupied Channel Bandwidth

99% Occupied Channel Bandwidth (kHz)	
Channel A	179.487
Channel B	160.256
Channel C	160.256

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 055

Comment : Please see attached diagram as appendix .

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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

Frequency Marker Indication [MHz]	Indication Power Level [dBm]	Compliance Limit [dBm]	Margin
--	--	--	--
--	--	--	--
--	--	--	--
--	--	--	--
--	--	--	--

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

Comment : This test is not applicable.

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 055

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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)
H	693.4810	-90.22	31.91	PK	-58.31	-13.0	45.31	231
	1231.9872	-61.16	1.27	PK	-59.89	-13.0	46.89	198
	1846.4316	-62.15	5.43	PK	-56.72	-13.0	43.72	276

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBm)	Correction Factor (dB)	Detector	Test Result (dBm)	Compliance Limit (dBm)	Margin (dB)	Table Azimuth (degree)
V	693.4810	-90.28	30.20	PK	-60.08	-13.0	47.08	250
	1231.9872	-58.35	1.09	PK	-57.26	-13.0	44.26	211
	1846.4316	-61.38	2.47	PK	-58.91	-13.0	45.91	284

Registration number: W6M20611-7598-C-1

FCC ID: M5X-ACT8T

711 MHz

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBm)	Correction Factor (dB)	Detector	Test Result (dBm)	Compliance Limit (dBm)	Margin (dB)	Table Azimuth (degree)
H	238.2640	-87.14	20.81	PK	-66.33	-13.0	53.33	243
	699.7590	-87.05	31.58	PK	-55.47	-13.0	42.47	187
	1423.7618	-59.38	2.63	PK	-56.75	-13.0	43.75	311

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBm)	Correction Factor (dB)	Detector	Test Result (dBm)	Compliance Limit (dBm)	Margin (dB)	Table Azimuth (degree)
V	369.8420	-87.96	25.45	PK	-62.51	-13.0	49.51	174
	699.7590	-90.30	30.37	PK	-59.93	-13.0	46.93	256
	1423.7618	-57.99	1.16	PK	-56.83	-13.0	43.83	320

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)
H	648.5290	-87.51	31.62	PK	-55.89	-13.0	42.89	179
	949.1030	-93.21	33.39	PK	-59.82	-13.0	46.82	257
	1608.8271	-51.22	5.53	PK	-45.69	-13.0	32.69	243

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBm)	Correction Factor (dB)	Detector	Test Result (dBm)	Compliance Limit (dBm)	Margin (dB)	Table Azimuth (degree)
V	648.5290	-85.30	29.57	PK	-55.73	-13.0	42.73	181
	949.1030	-90.22	32.01	PK	-58.21	-13.0	45.21	264
	1608.8271	-42.67	1.55	PK	-41.12	-13.0	28.12	251

- Note:**
1. Correction Factor = Antenna Gain + Cable Loss + Amplifier Gain
 2. The formula of measured value as: Test Result = Corrected Reading + Correction Factor
 3. Detector function in the form : P = Peak, AV = Average

Registration number: W6M20611-7598-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	15.16 dBm
Required attenuation	$43 + 10 \log_{10} 0.0328W = 28.15 \text{ dB}$
Maximum transmitter output power	15.16 dBm
<u>Required attenuation</u>	<u>28.15 dB</u>
Compliance limit	-13 dBm

Comment : see attached diagrams in appendix.

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 017 ETSTW-RE 021
 ETSTW-RE 028 ETSTW-RE 029 ETSTW-RE 030 ETSTW-RE 042
 ETSTW-RE 043 ETSTW-RE 044

Registration number: W6M20611-7598-C-1
 FCC ID: M5X-ACT8T

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 transact 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 (dBμV)	
	quasi-peak	average
-- kHz	--	--

Limits:

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

- Note: 1. The formula of measured value as: Test Result = Corrected Reading + Correction Factor**
- 2. The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss**
- 3. Detector function in the form : P = Peak, QP = Quasi Peak, AV = Average**

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

Test equipment used: ETSTW-CE 001 ETSTW-CE 003 ETSTW-CE 004 ETSTW-CE 006

Registration number: W6M20611-7598-C-1
 FCC ID: M5X-ACT8T

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

615 MHz

°C	Frequency Error (kHz)	Frequency Error (ppm)
-30	-5.2	8.45
-20	-4.1	6.67
-10	-2.9	4.72
0	-1.2	1.95
10	-0.3	0.49
20	0.8	1.30
30	1.7	2.76
40	2.9	4.72
50	4.0	6.50

25°C: 615.0007

Limit: 30.75KHz(±0.005%)

711 MHz

°C	Frequency Error (kHz)	Frequency Error (ppm)
-30	-4.4	6.19
-20	-4.1	5.77
-10	-3.5	4.92
0	-2.3	3.23
10	-0.4	0.56
20	1.7	2.39
30	2.8	3.94
40	3.3	4.64
50	4.2	5.91

25°C: 710.9982

Limit: 35.75KHz(±0.005%)

Registration number: W6M20611-7598-C-1
 FCC ID: M5X-ACT8T

805 MHz

°C	Frequency Error (kHz)	Frequency Error (ppm)
-30	-4.9	6.09
-20	-3.6	4.49
-10	-2.8	3.48
0	-1.2	1.49
10	-0.1	0.12
20	1.1	1.37
30	1.9	2.36
40	3.2	3.98
50	4.9	6.09

25°C: 805.0008

Limit: 40.25KHz(±0.005%)

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 055 ETSTW-CE 009

Registration number: W6M20611-7598-C-1

FCC ID: M5X-ACT8T

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)
615.0057	5	8.13
711.0025	4.3	6.04
805.0068	5.2	6.45

Limit : $\pm 0.005\%$

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 055 ETSTW-CE 009

Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T

Appendix

- A RF Power Output
- B Audio frequency response
- 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

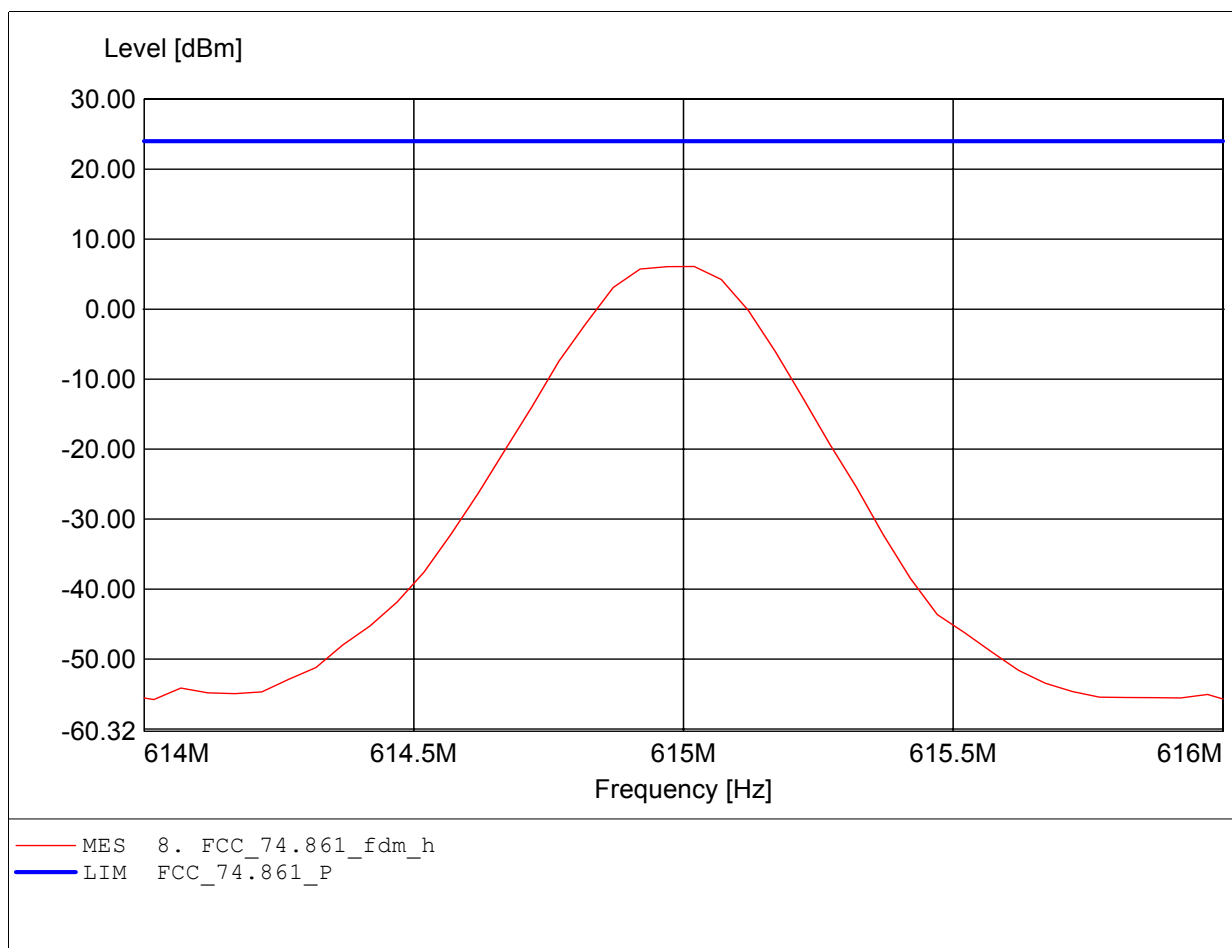
Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T

Appendix A

RF Power Output

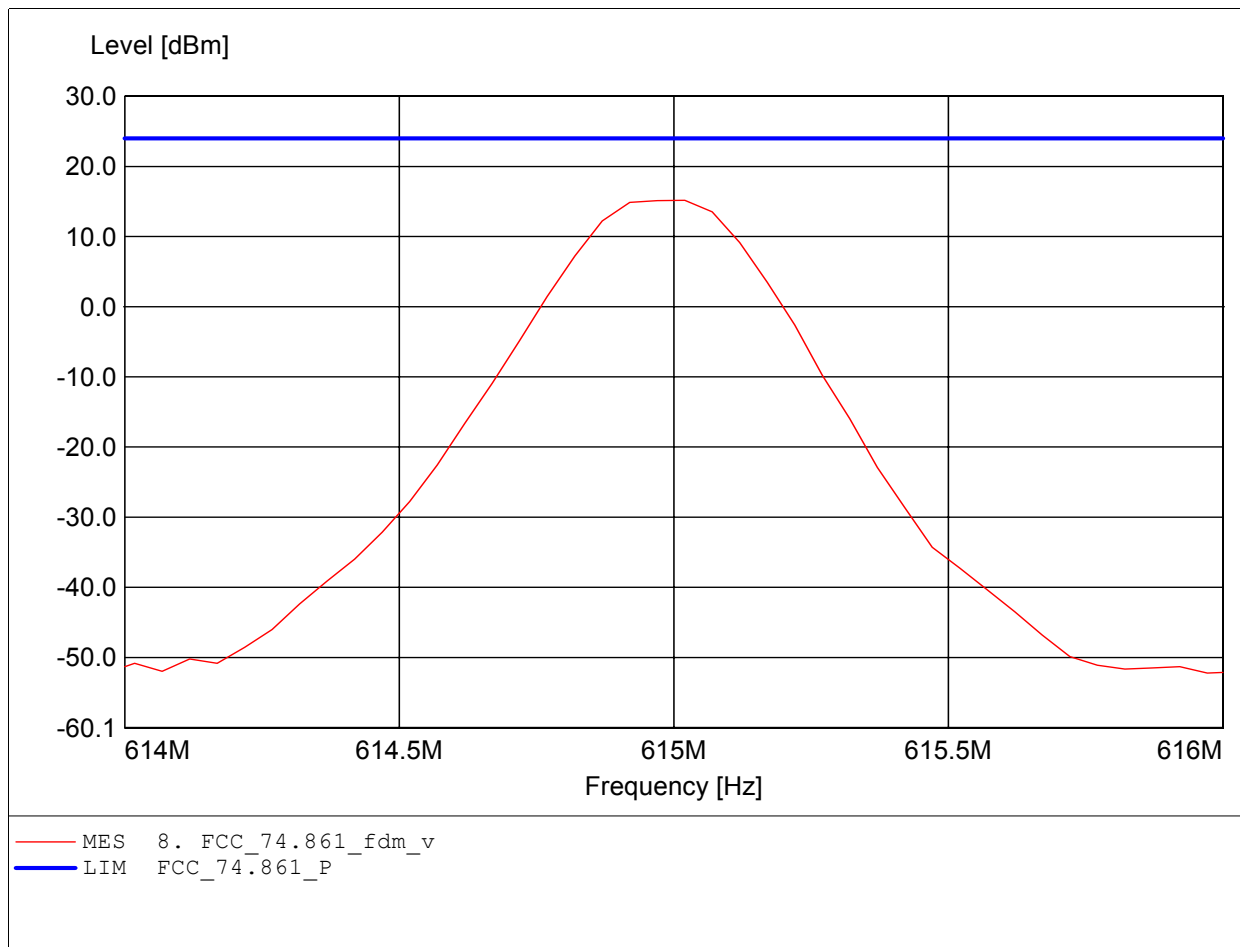
**Transmitter carrier power under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 615MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HL 223
Freq:615.020MHz Pmax:6.10dBm RBW: 100 kHz



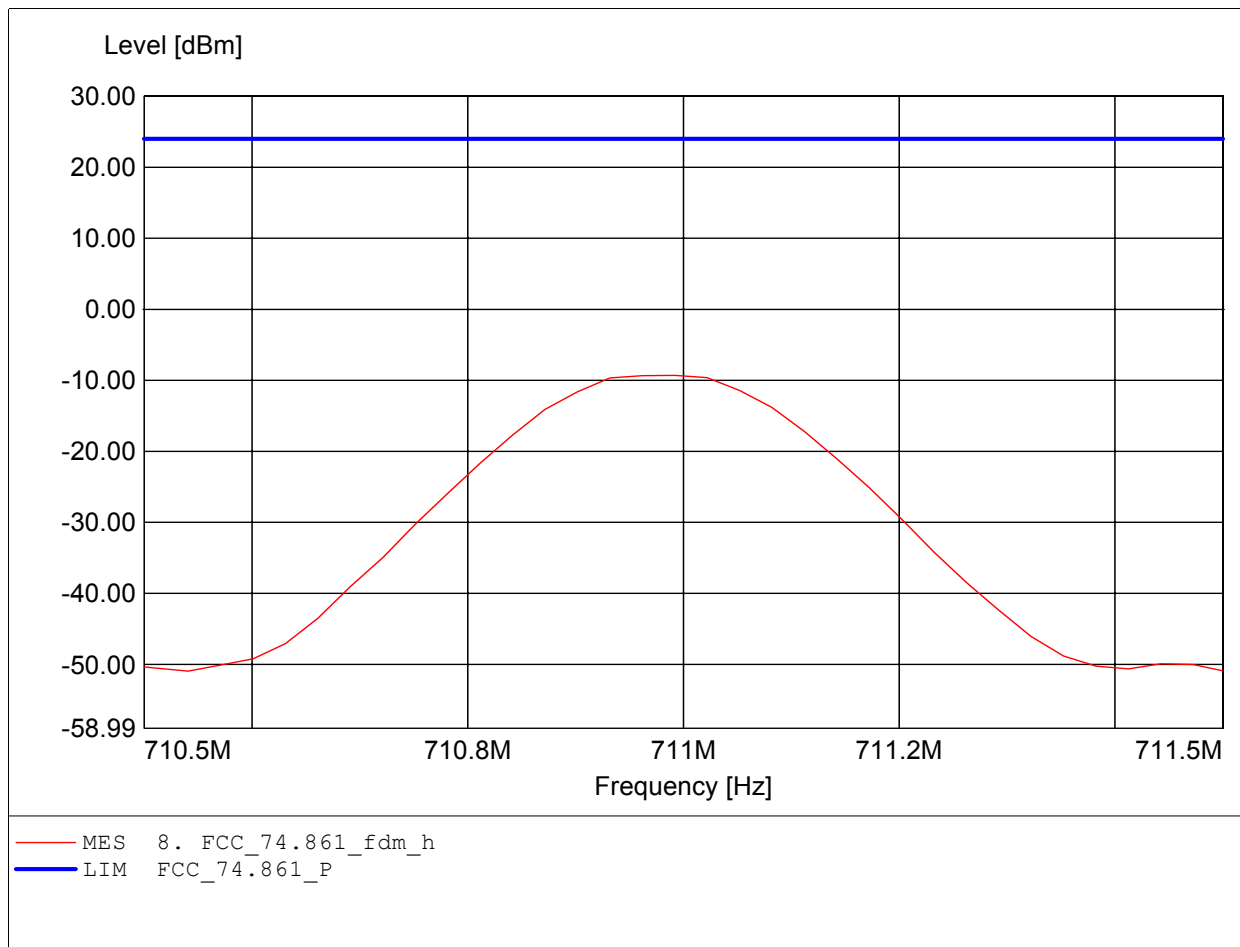
**Transmitter carrier power under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 615MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HL 223
Freq:615.020MHz Pmax:15.16dBm RBW: 100 kHz



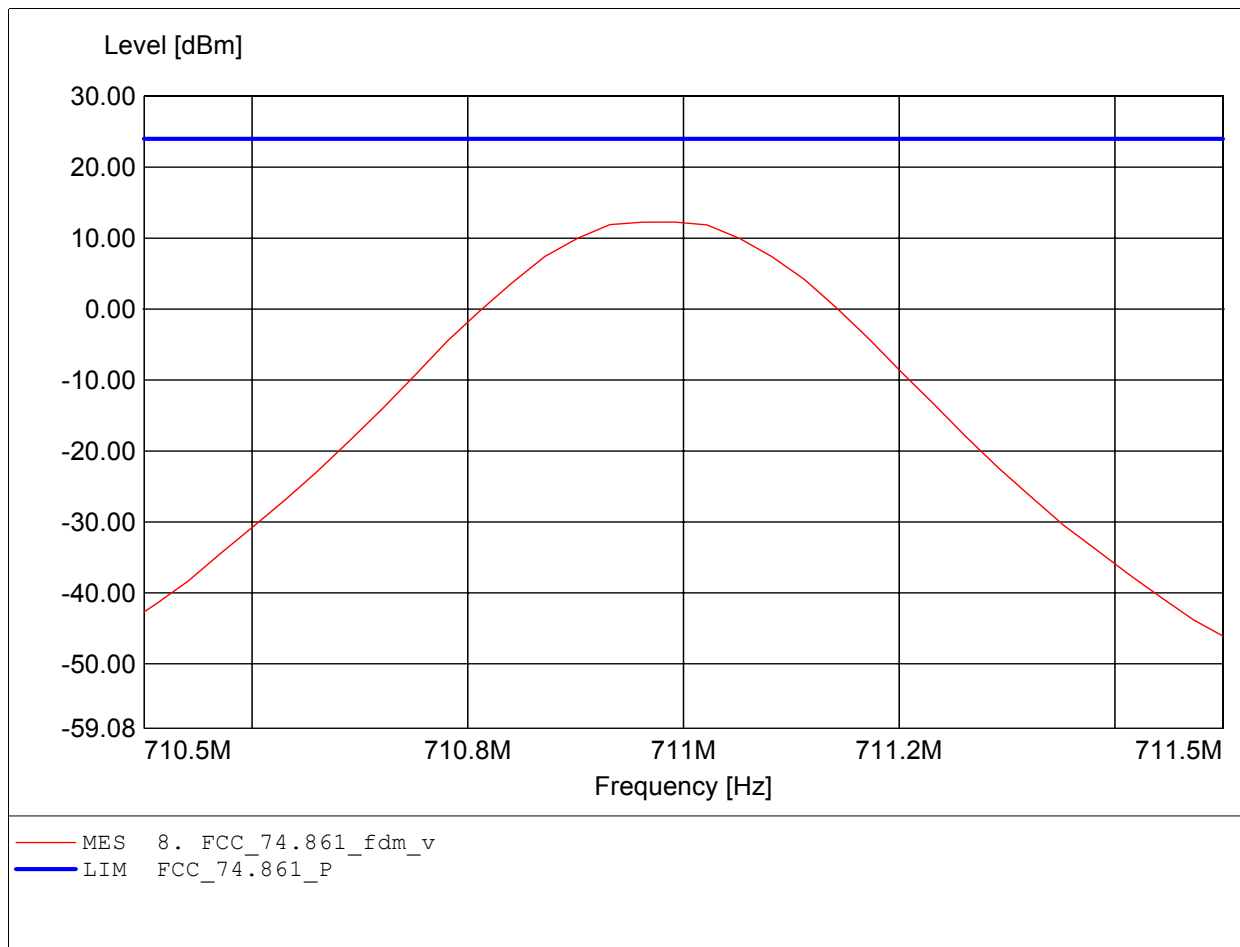
**Transmitter carrier power under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 711MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HL 223
Freq:710.992MHz Pmax:-9.30dBm RBW: 100 kHz



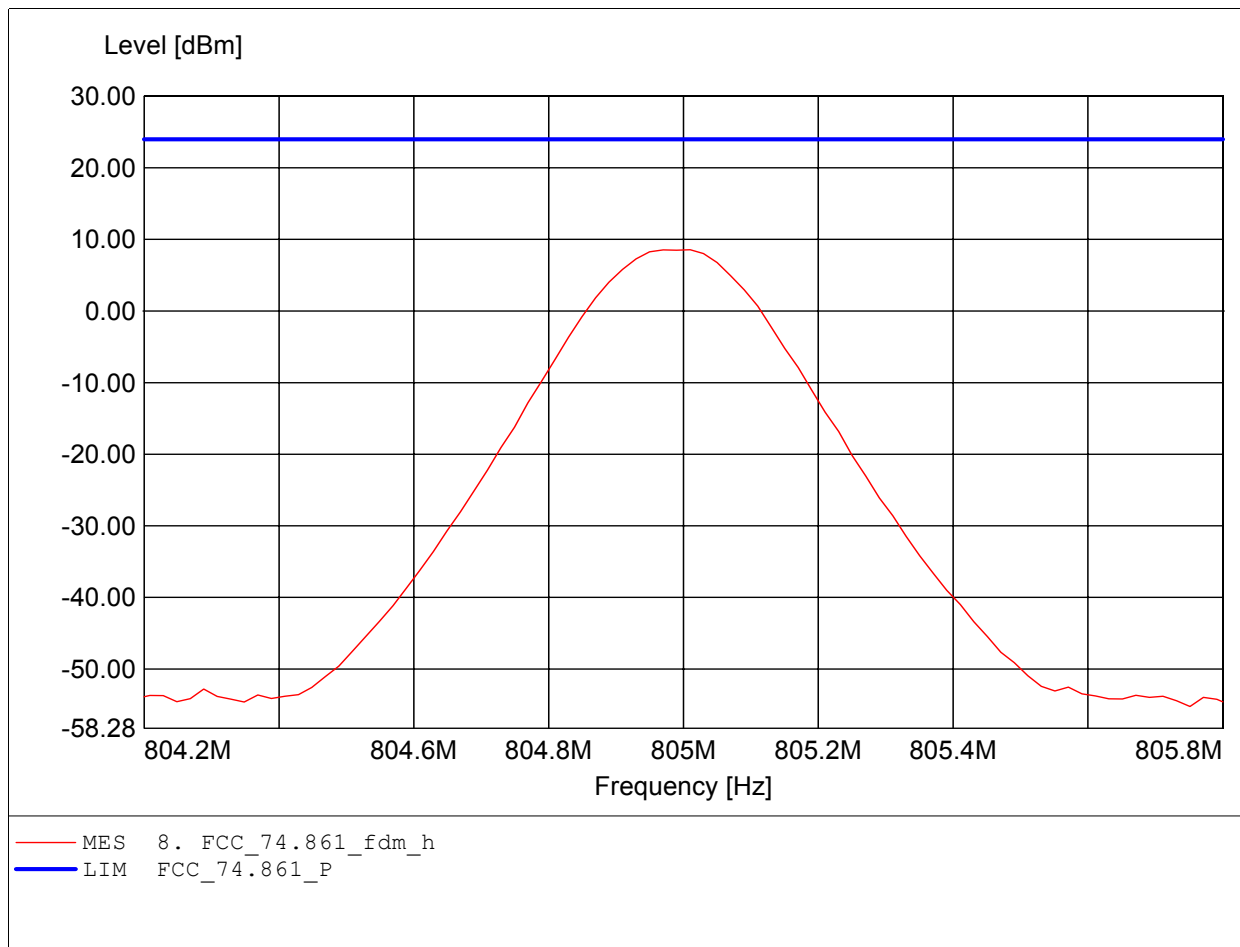
**Transmitter carrier power under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 711MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HL 223
Freq:710.992MHz Pmax:12.29dBm RBW: 100 kHz



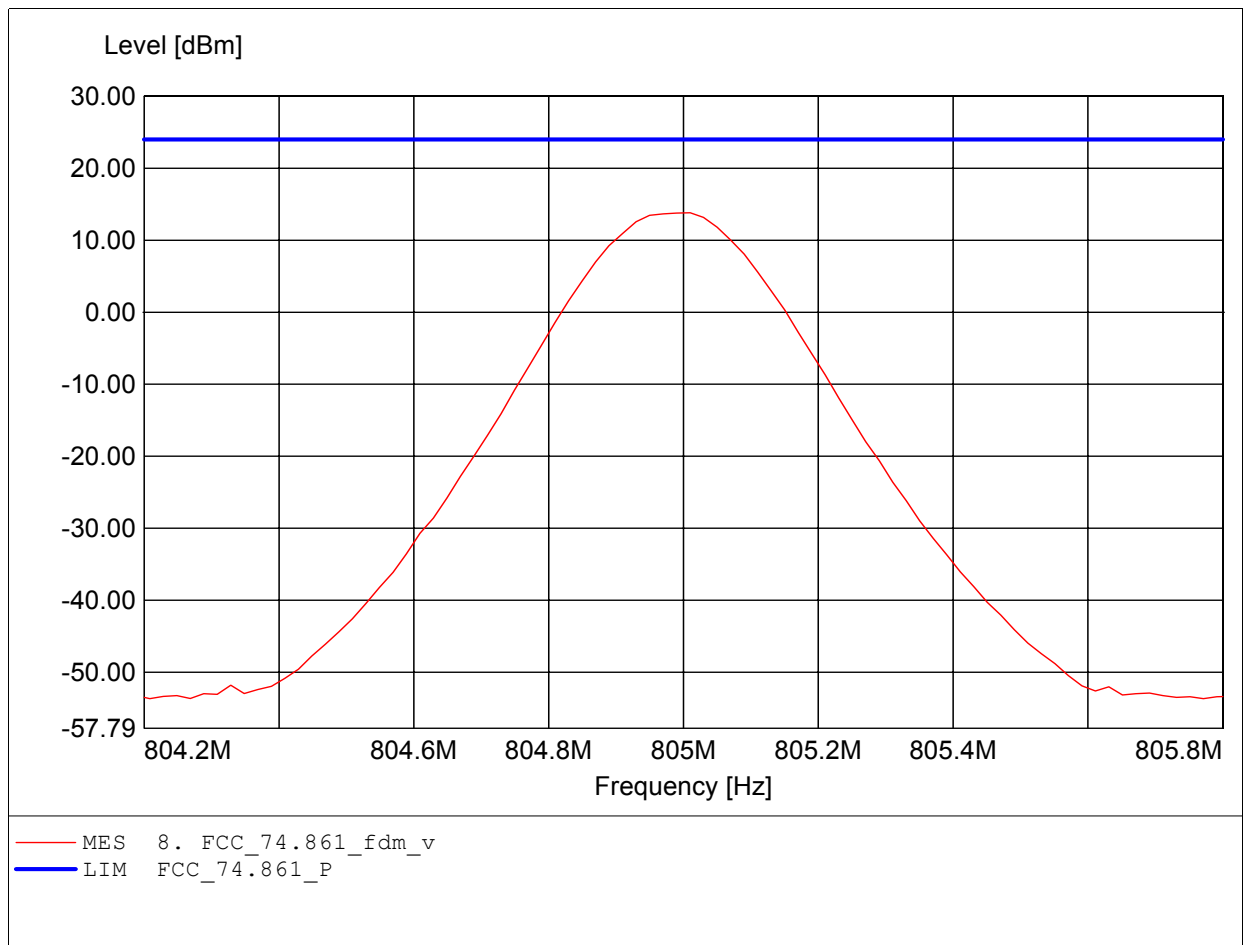
**Transmitter carrier power under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 805MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HL 223
Freq:805.010MHz Pmax:8.54dBm RBW: 100 kHz



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

Order Number : W6M20611-7598 805MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HL 223
Freq:805.010MHz Pmax:13.81dBm RBW: 100 kHz



Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T

Appendix B

Audio frequency response

This test is not applicable, the EUT is digital modulation.

Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T

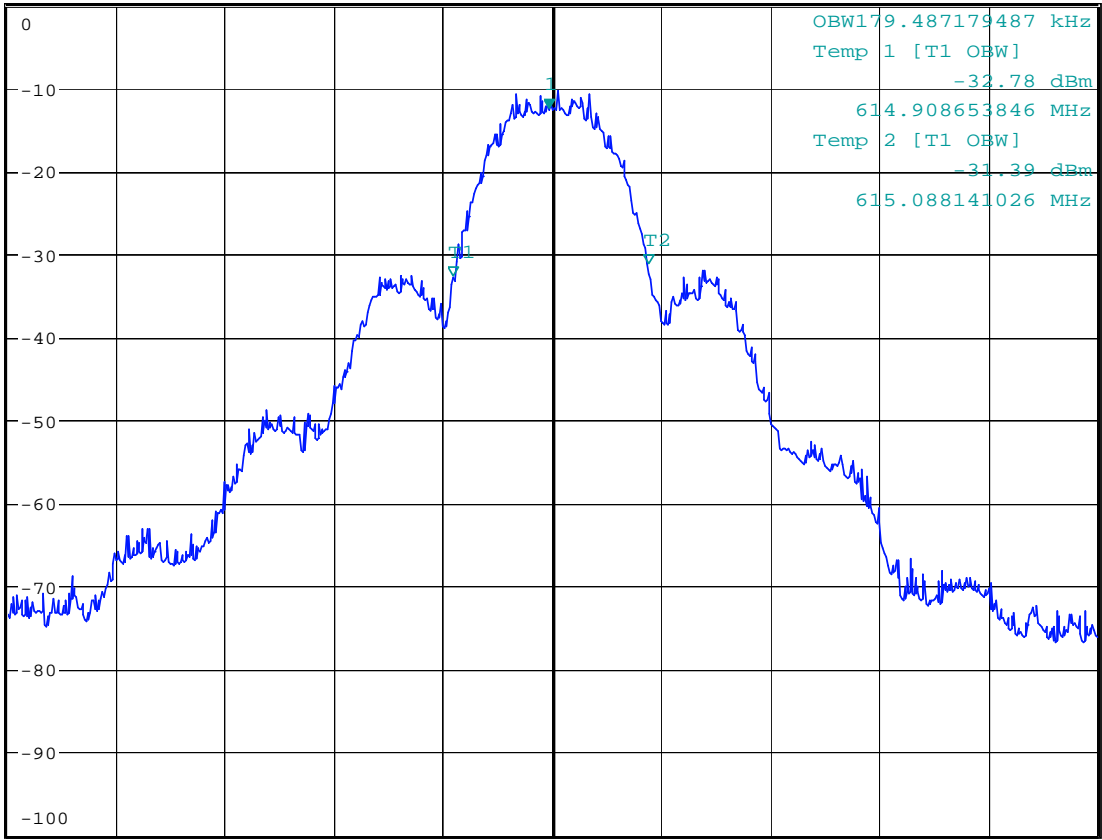
Appendix C

Occupied Bandwidth / Emission Mask



Ref 0 dBm Att 5 dB *RBW 10 kHz *VBW 10 kHz *SWT 100 ms Marker 1 [T1] -12.73 dBm 614.996794872 MHz

1 PK
MAXH



Center 615 MHz 100 kHz/ Span 1 MHz

Occupied bandwidth

Date: 5.DEC.2006 14:52:50

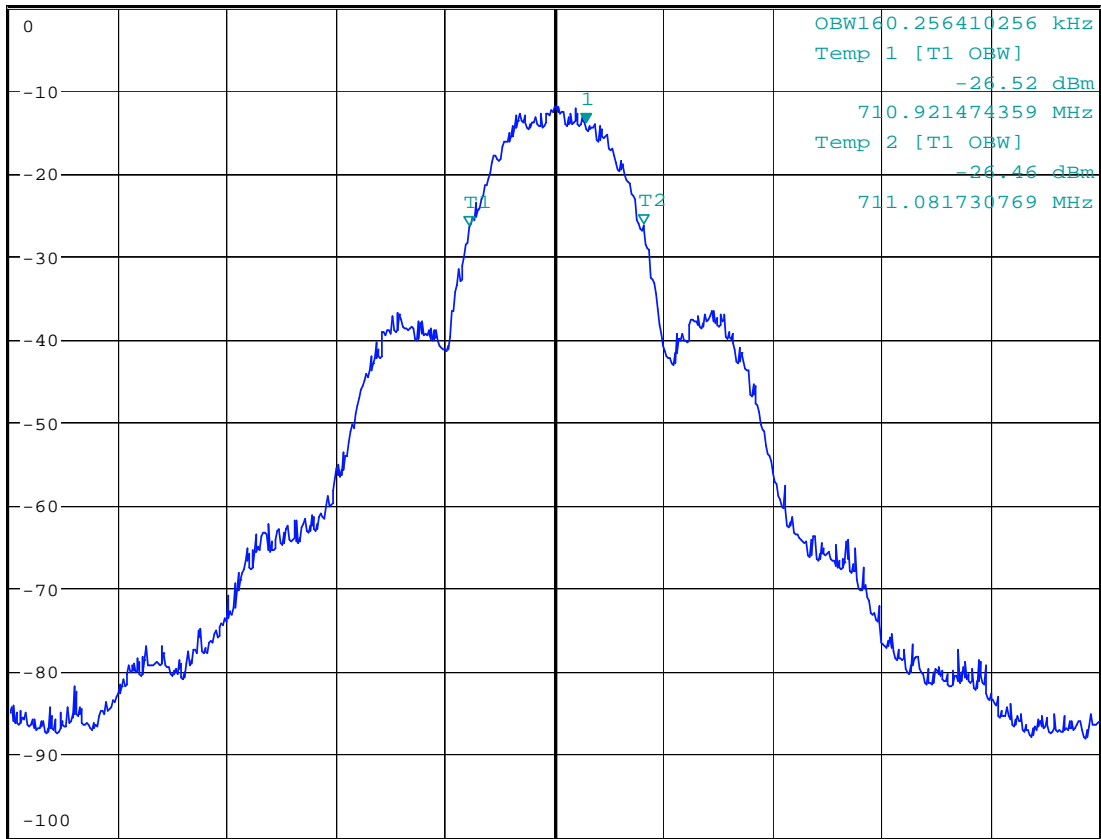


*RBW 10 kHz Marker 1 [T1]
*VBW 10 kHz -14.25 dBm
*SWT 100 ms 711.028846154 MHz

Ref 0 dBm

Att 5 dB

1 PK
MAXH



Center 711 MHz

100 kHz/

Span 1 MHz

Occupied bandwidth

Date: 5.DEC.2006 14:45:49

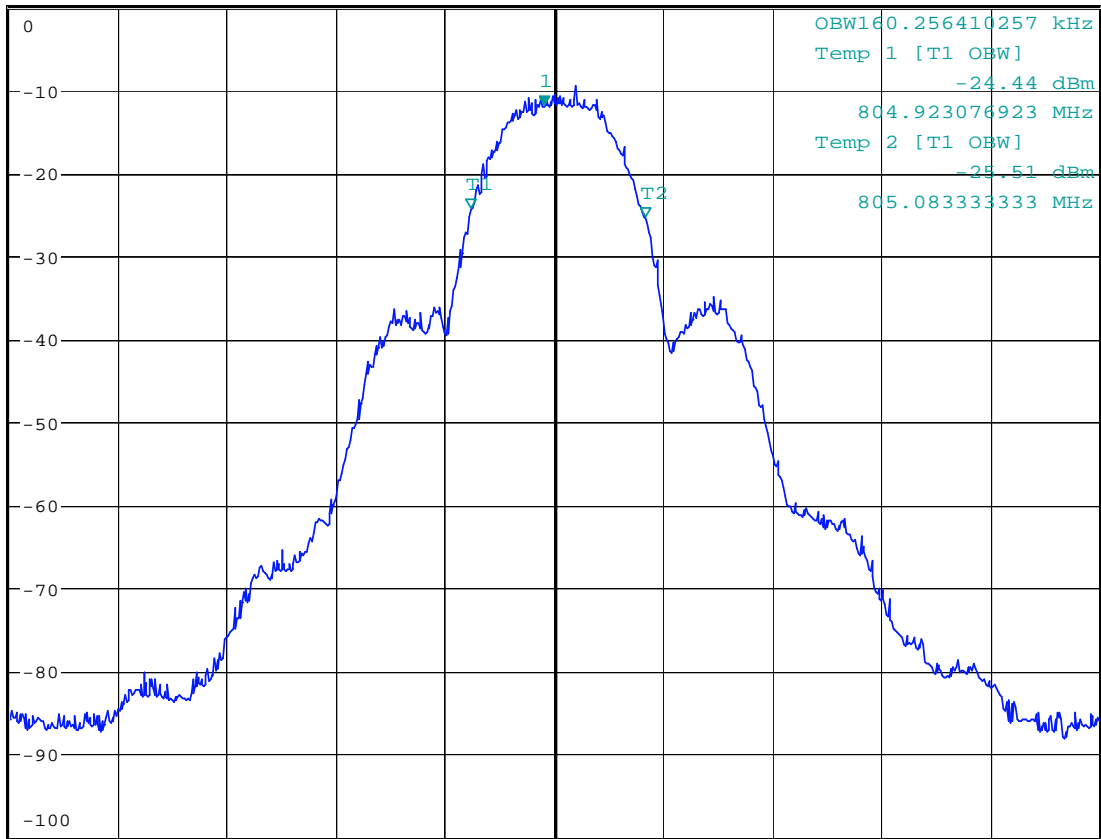


*RBW 10 kHz Marker 1 [T1]
*VBW 10 kHz -12.17 dBm
*SWT 100 ms 804.990384615 MHz

Ref 0 dBm

Att 5 dB

1 PK
MAXH



Center 805 MHz

100 kHz/

Span 1 MHz

Occupied bandwidth

Date: 5.DEC.2006 14:41:48

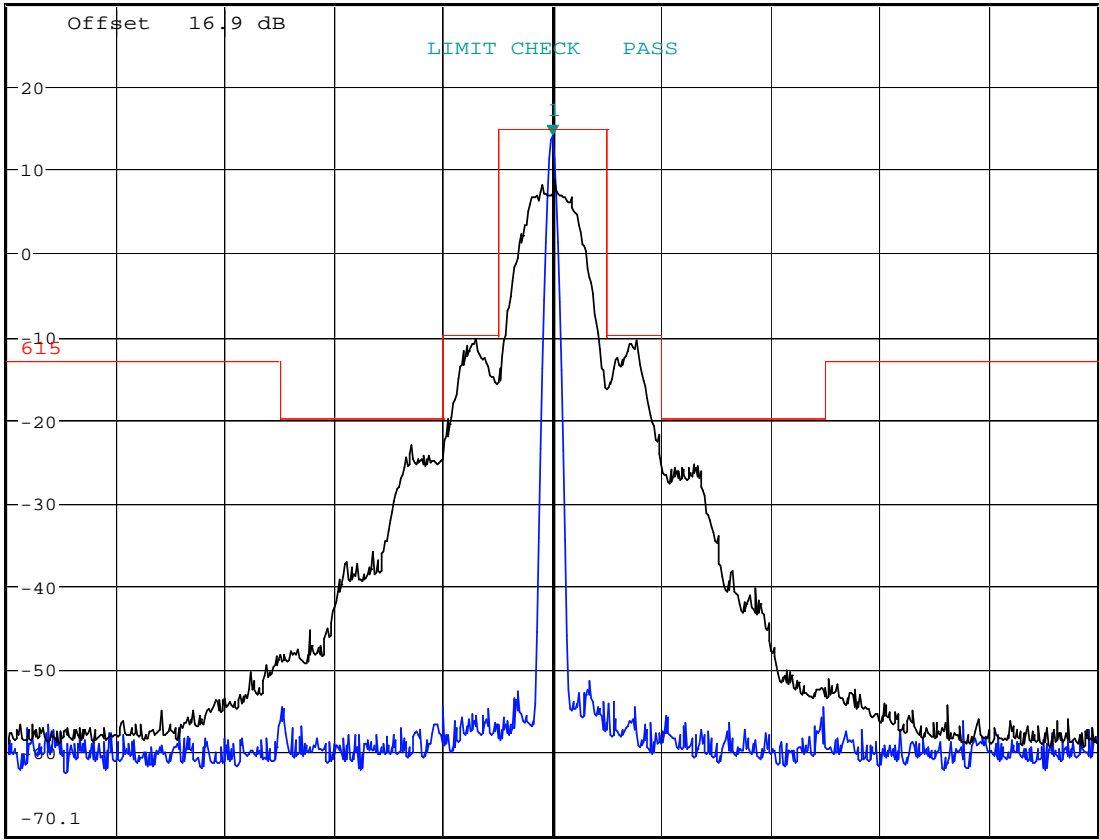


*RBW 10 kHz Marker 1 [T1]
*VBW 10 kHz 14.01 dBm
*SWT 2 s 615.00000000 MHz

Ref 29.9 dBm *Att 20 dB

1 PK
VIEW

2 PK
MAXH



A

LVL

Center 615 MHz 200 kHz/ Span 2 MHz

Mask

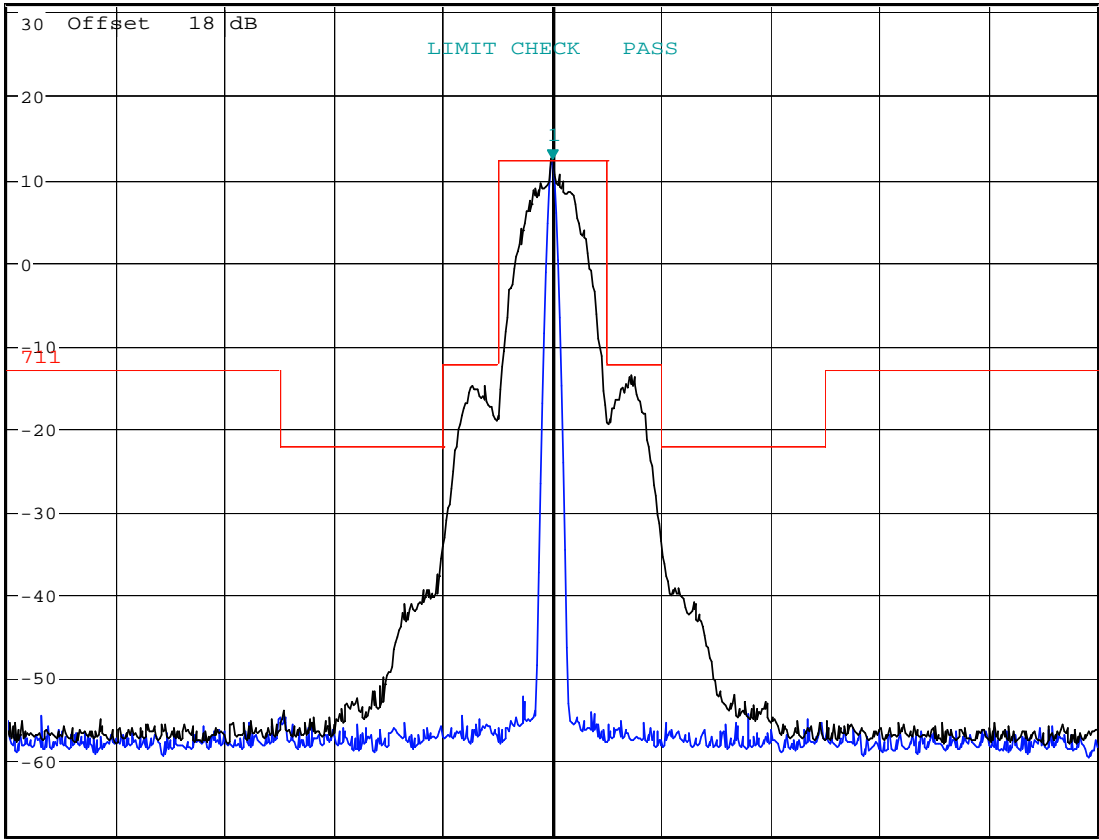
Date: 14.DEC.2006 08:50:51



*RBW 10 kHz Marker 1 [T1]
*VBW 10 kHz 12.17 dBm
*SWT 2 s 711.00000000 MHz

Ref 31 dBm *Att 20 dB

1 PK
VIEW
2 PK
MAXH



Center 711 MHz 200 kHz/ Span 2 MHz

Mask

Date: 14.DEC.2006 08:42:19

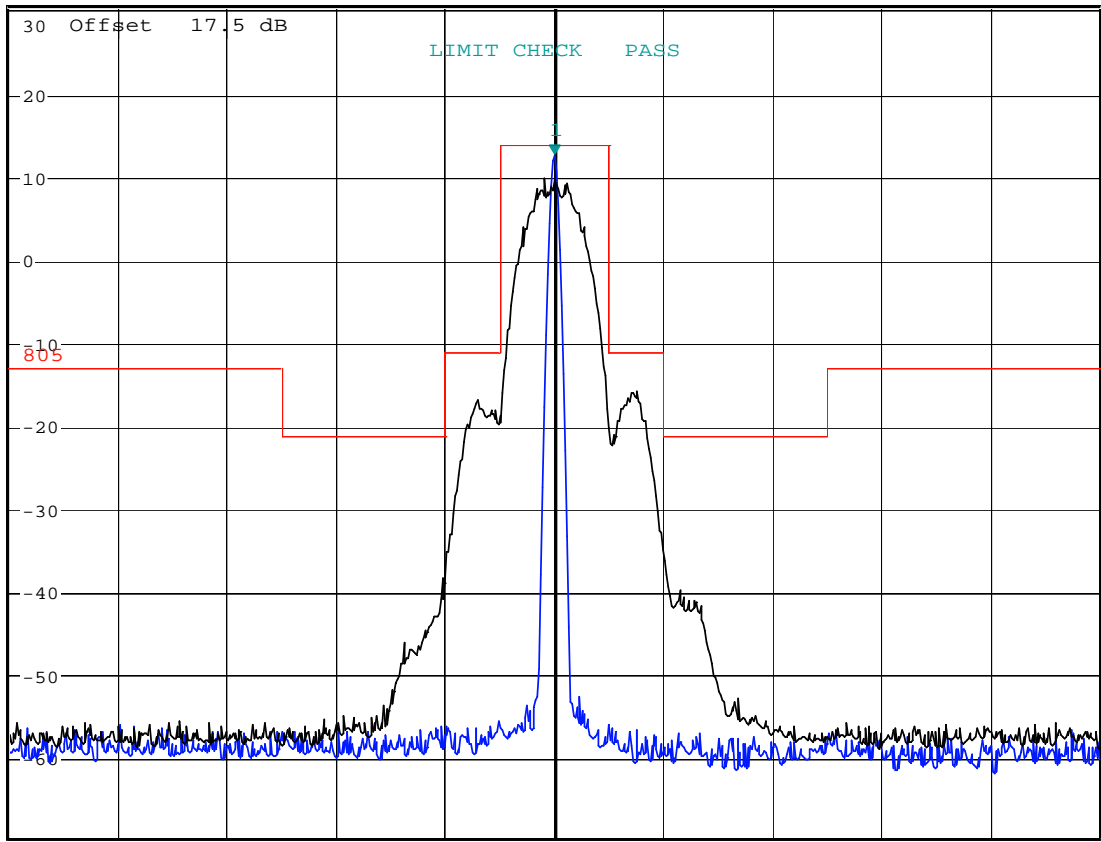


*RBW 10 kHz Marker 1 [T1]
*VBW 10 kHz 12.51 dBm
*SWT 2 s 805.00000000 MHz

Ref 30.5 dBm *Att 20 dB

1 PK
VIEW

2 PK
MAXH



Mask

Date: 14.DEC.2006 08:38:41

Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T

Appendix D

Spurious Emissions at Antenna Terminals

This test is not applicable

Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T

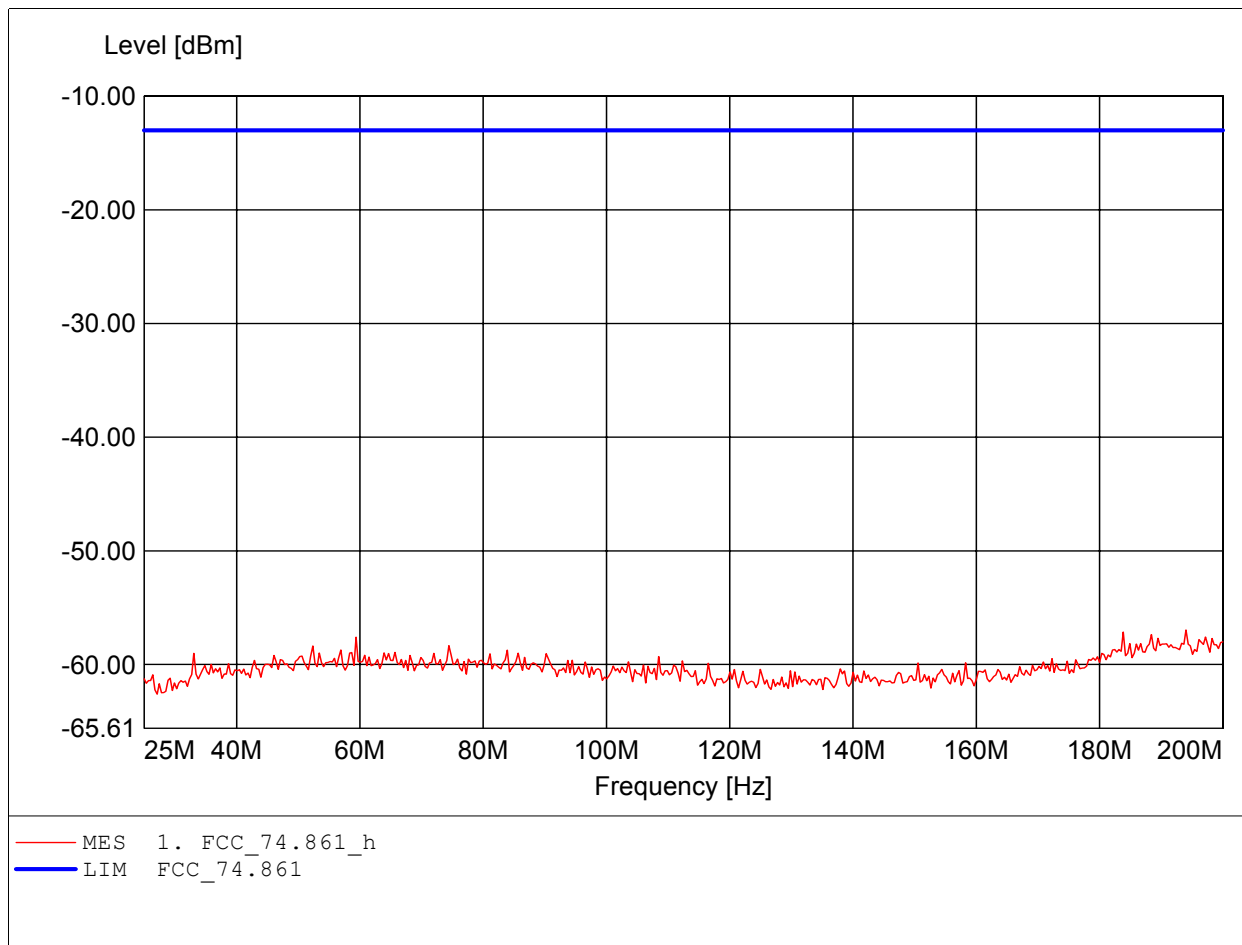
Appendix E

Radiation Spurious Emission

The measurement diagrams plots attached below are preliminary wideband scan with a peak detector for reference only. The final test results are listed on section 10

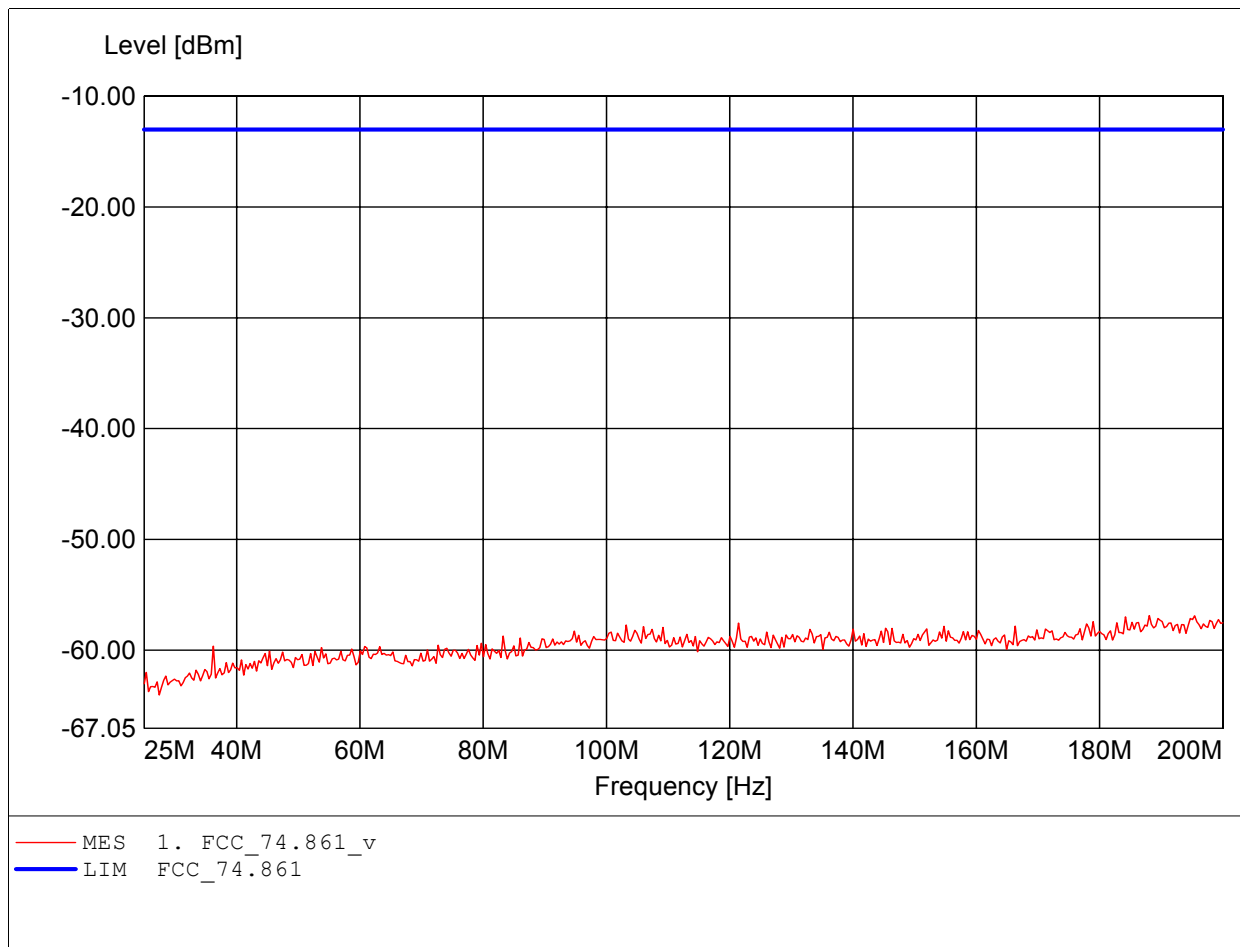
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 615MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:194.038MHz Pmax:-56.96dBm RBW: 100 kHz



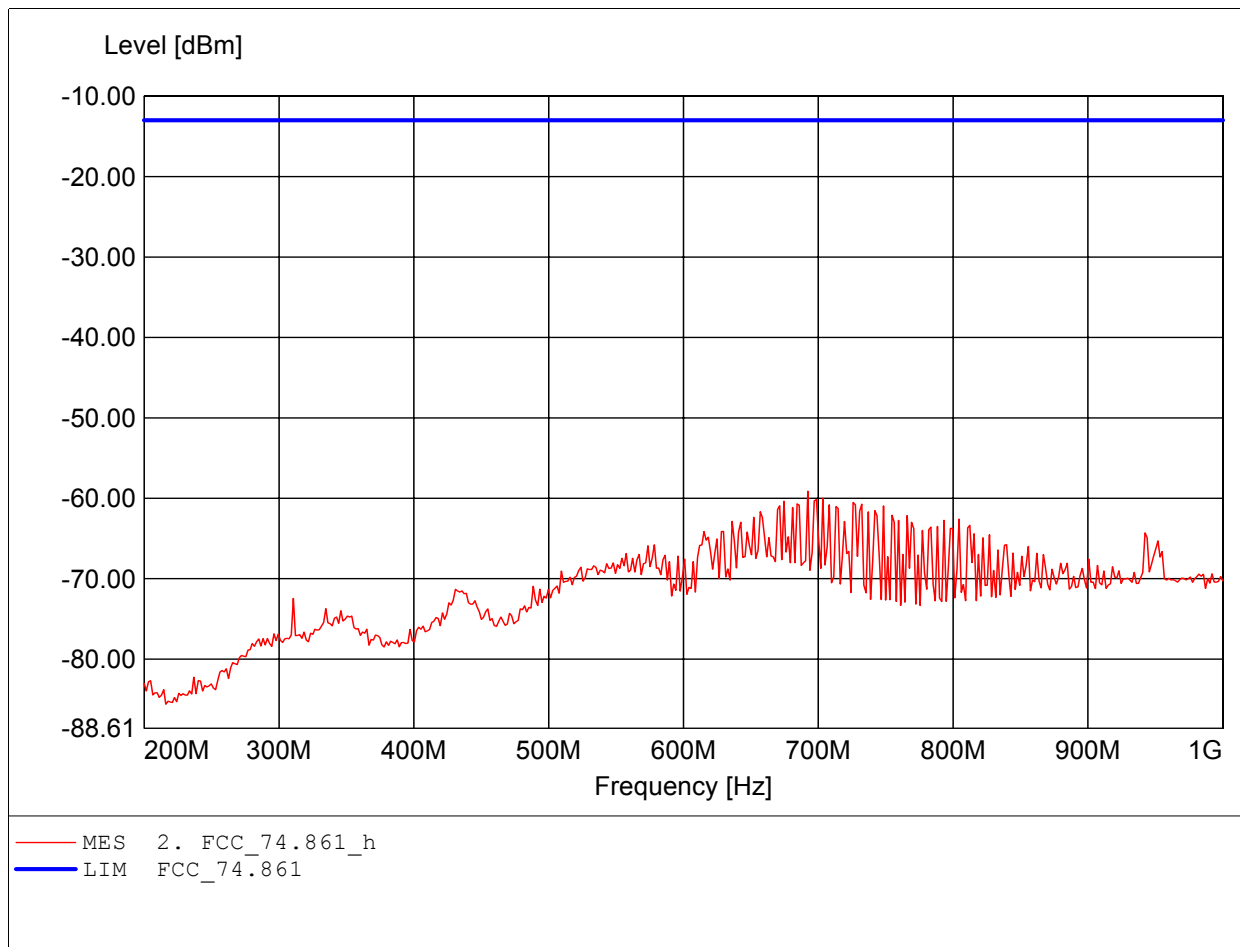
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 615MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:188.076MHz Pmax:-56.87dBm RBW: 100 kHz



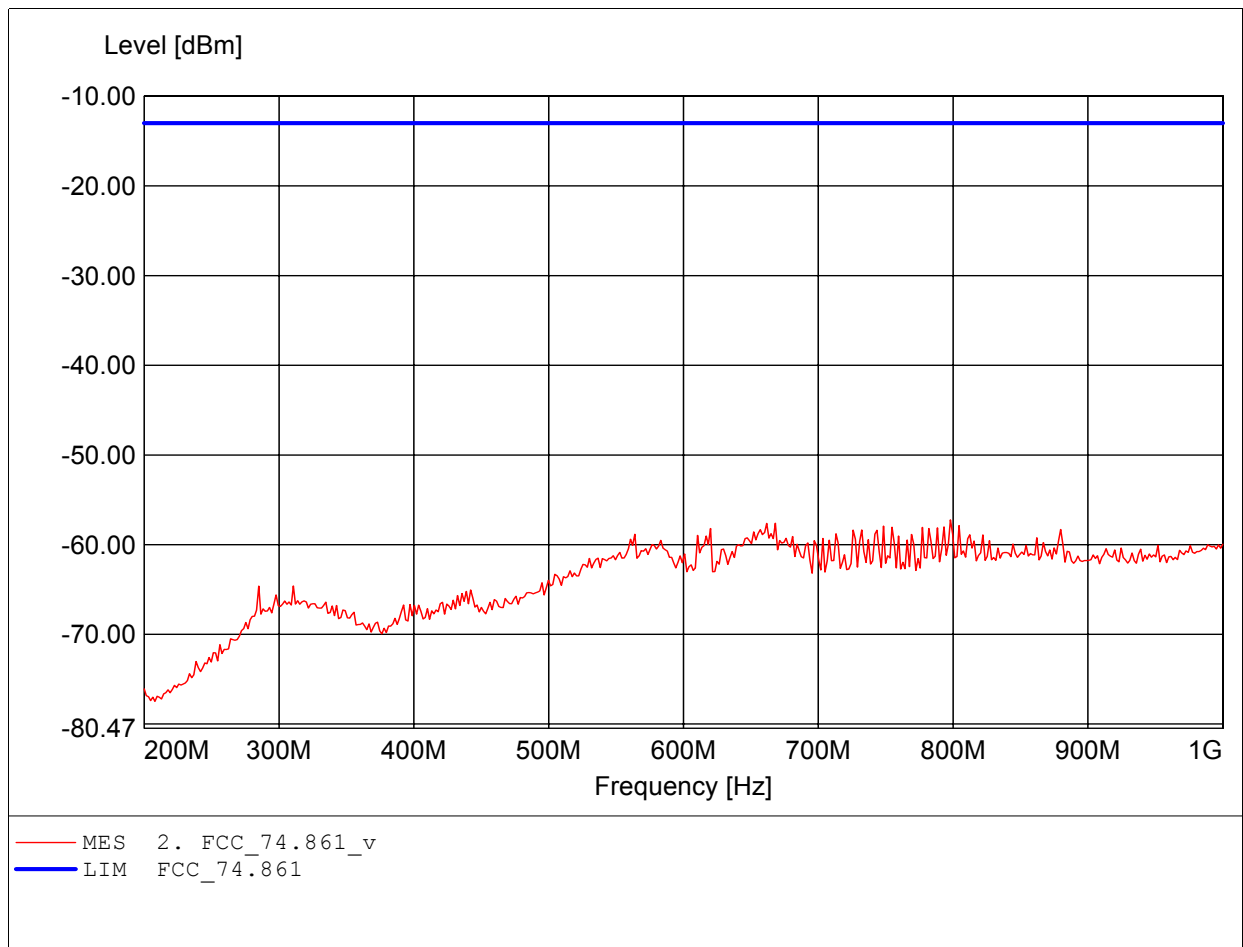
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 615MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.: 0.1-1GHz
Freq:692.184MHz Pmax:-59.13dBm RBW: 100 kHz



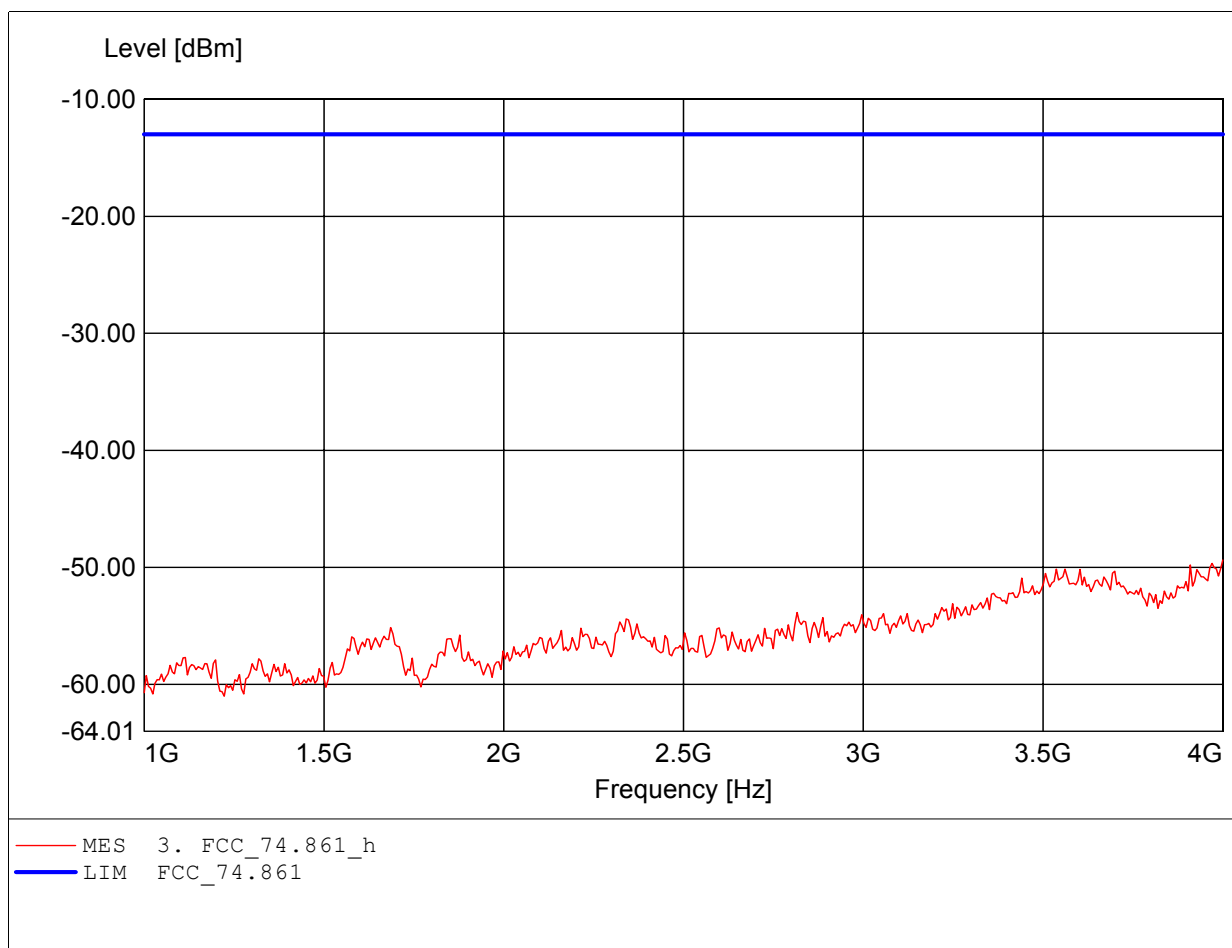
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 615MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.: 0.1-1GHz
Freq:797.996MHz Pmax:-57.23dBm RBW: 100 kHz



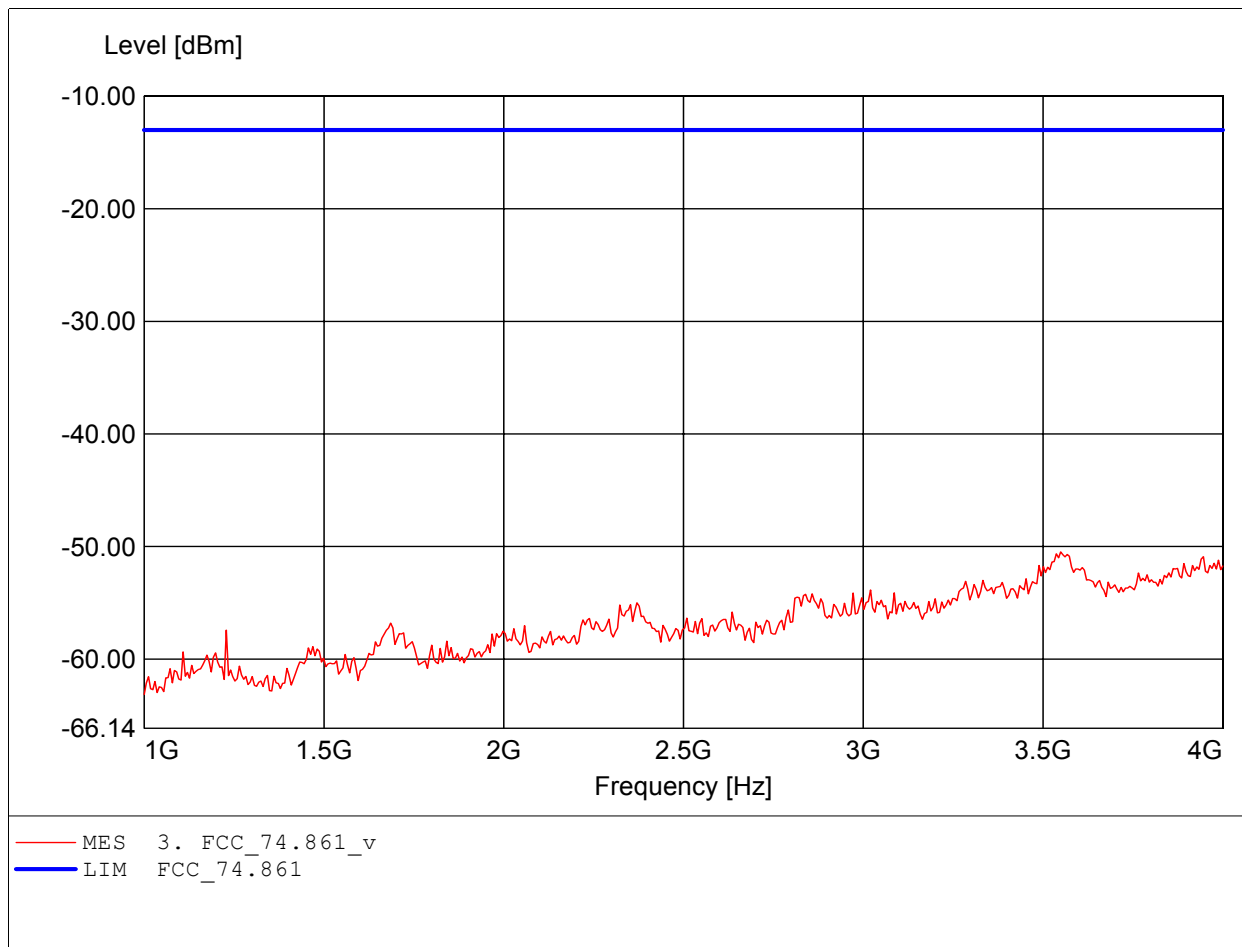
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 615MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.: 1-4GHz
Freq:4.000GHz Pmax:-49.38dBm RBW: 1 MHz



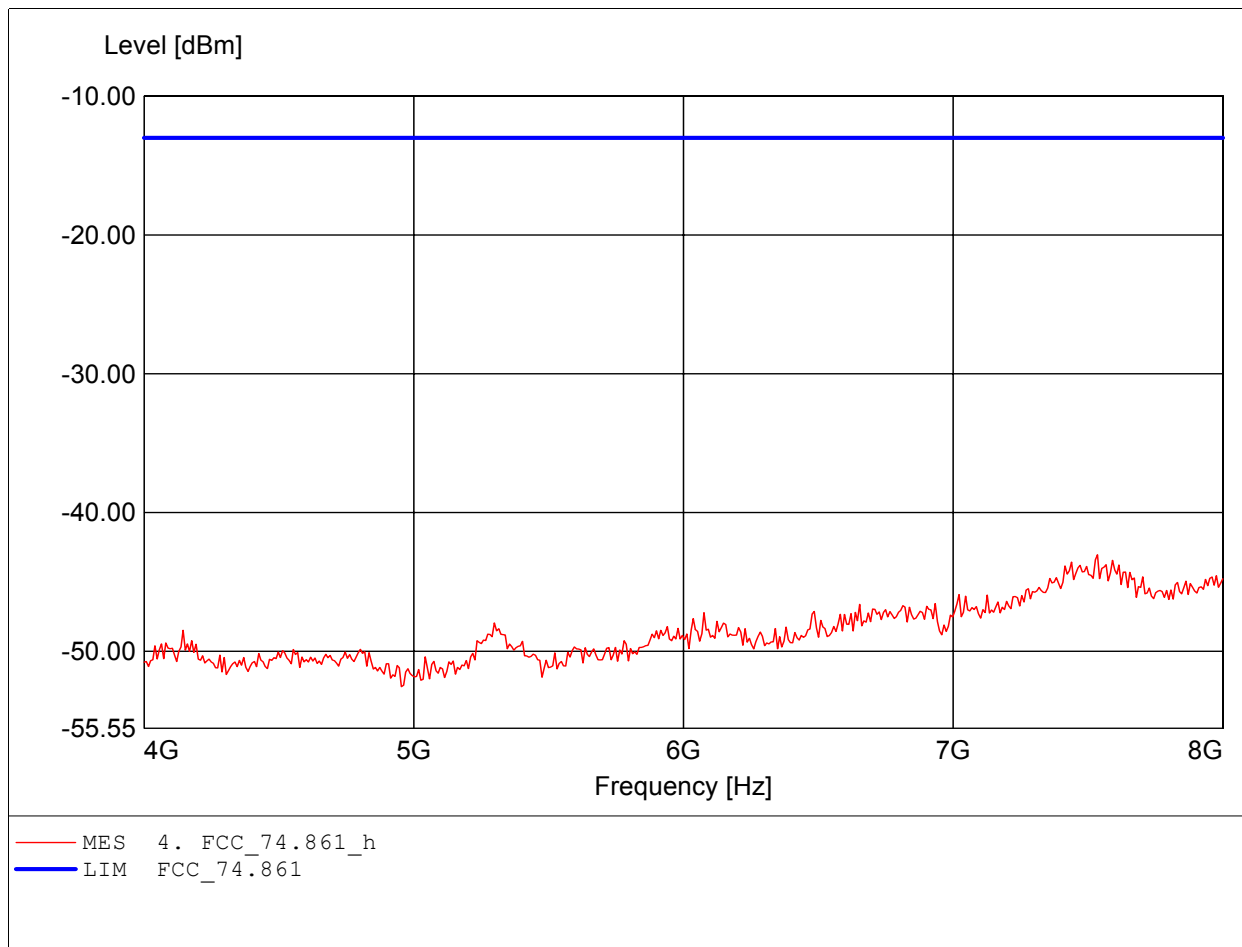
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 615MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.: 1-4GHz
Freq:3.549GHz Pmax:-50.47dBm RBW: 1 MHz



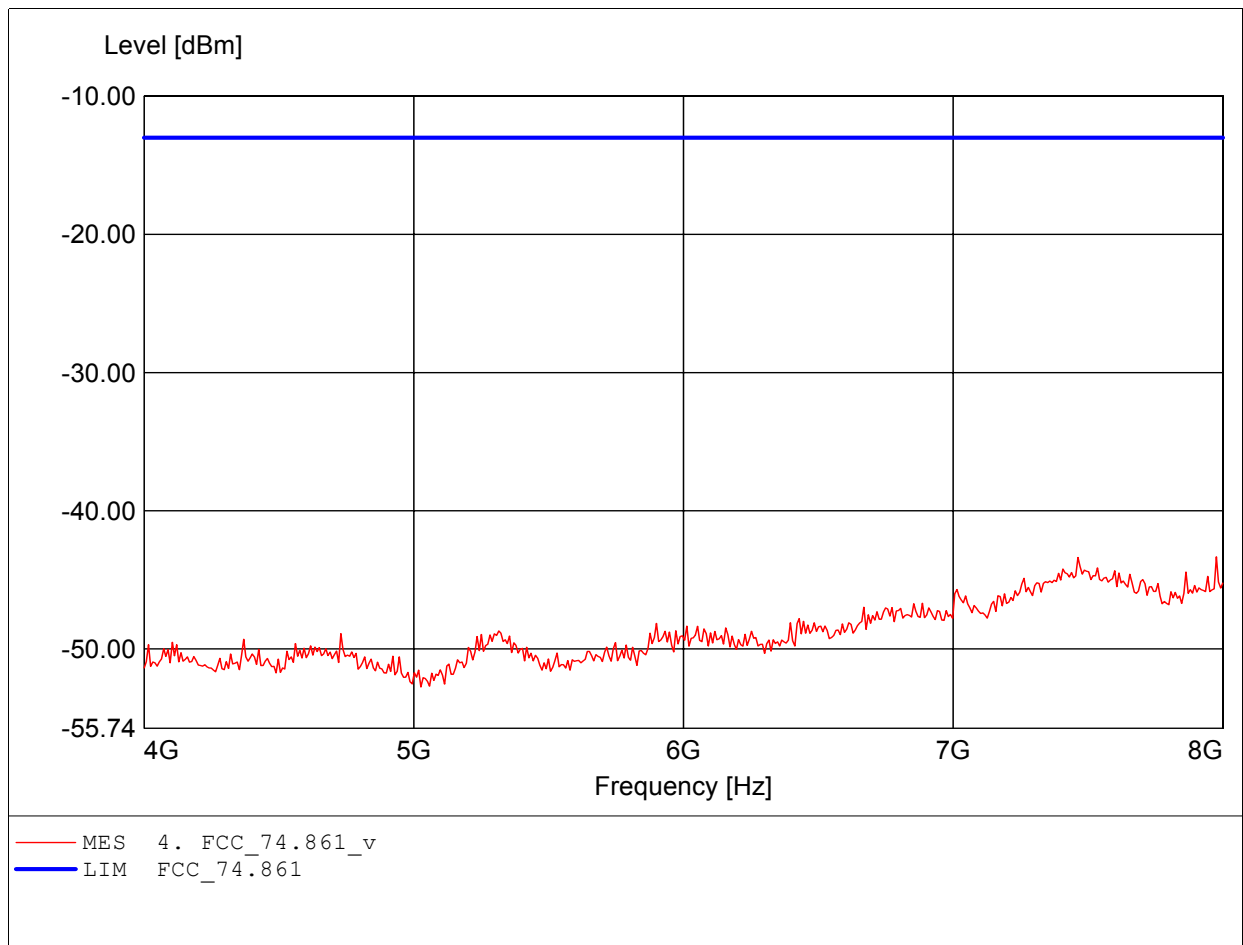
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 615MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 4-8GHz
Freq:7.535GHz Pmax:-43.05dBm RBW: 1 MHz



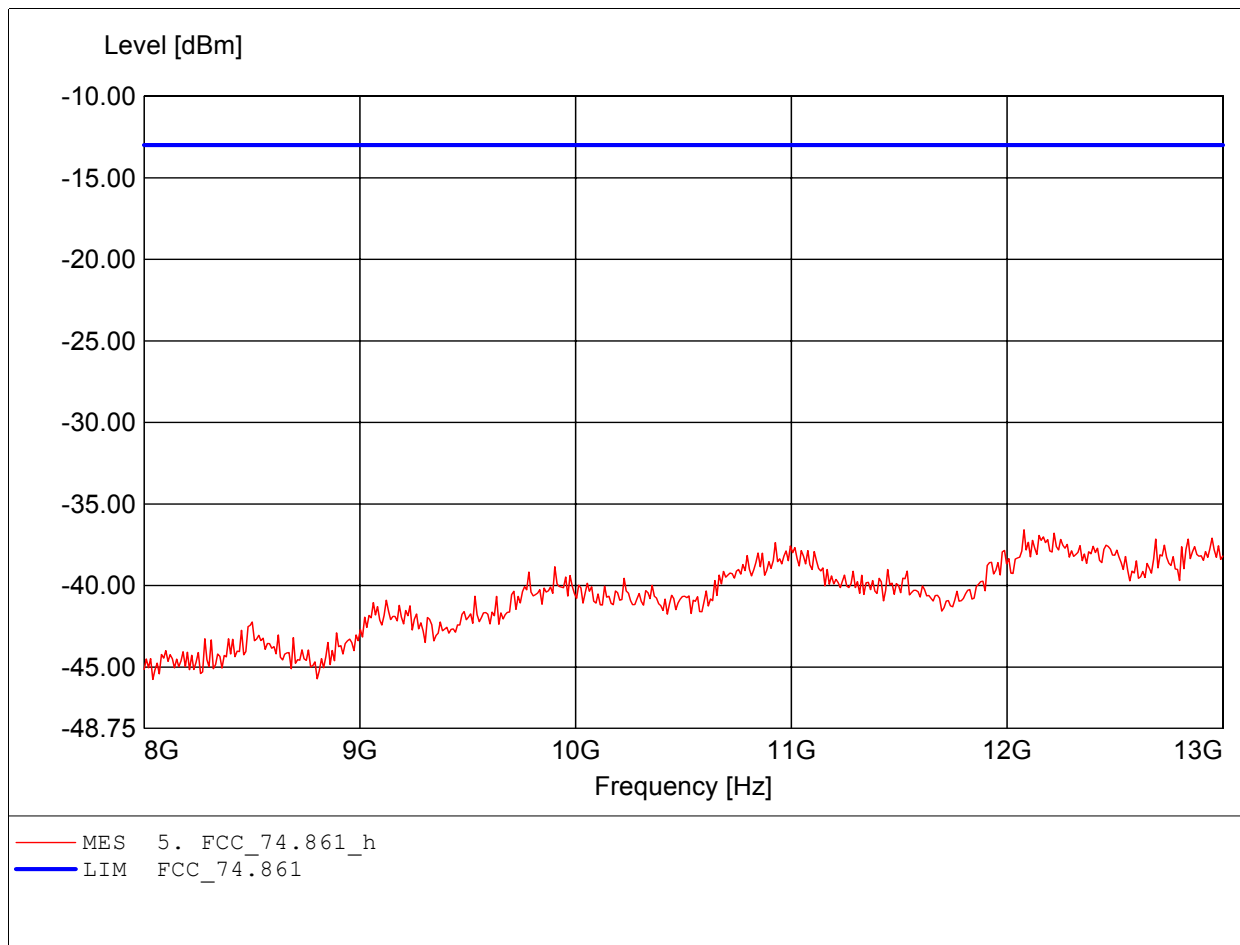
Spurious emissions under normal conditions
in according to FCC Part 74.861

Order Number : W6M20611-7598 615MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 4-8GHz
Freq:7.976GHz Pmax:-43.33dBm RBW: 1 MHz



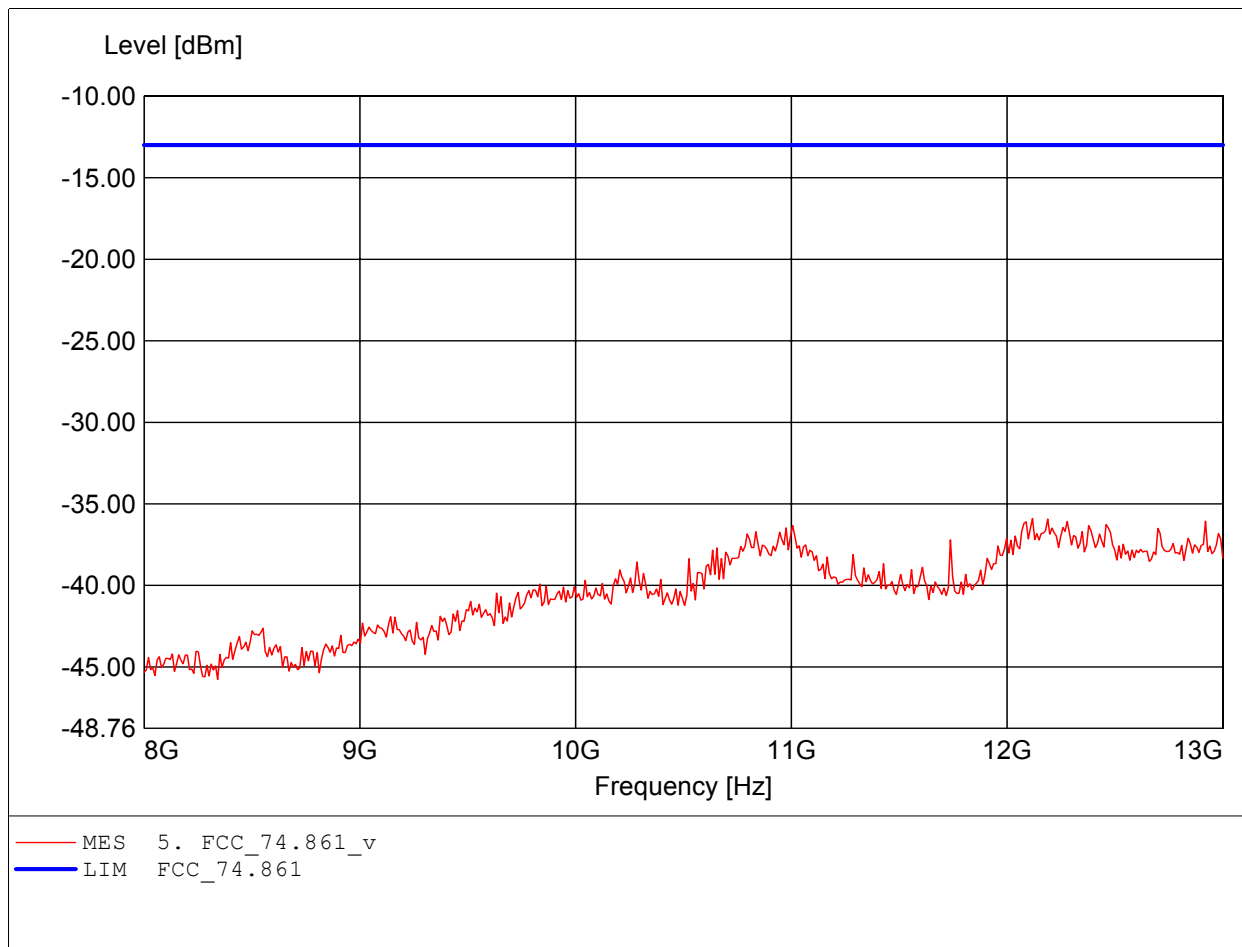
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 615MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 8-18GHz
Freq:12.078GHz Pmax:-36.59dBm RBW: 1 MHz



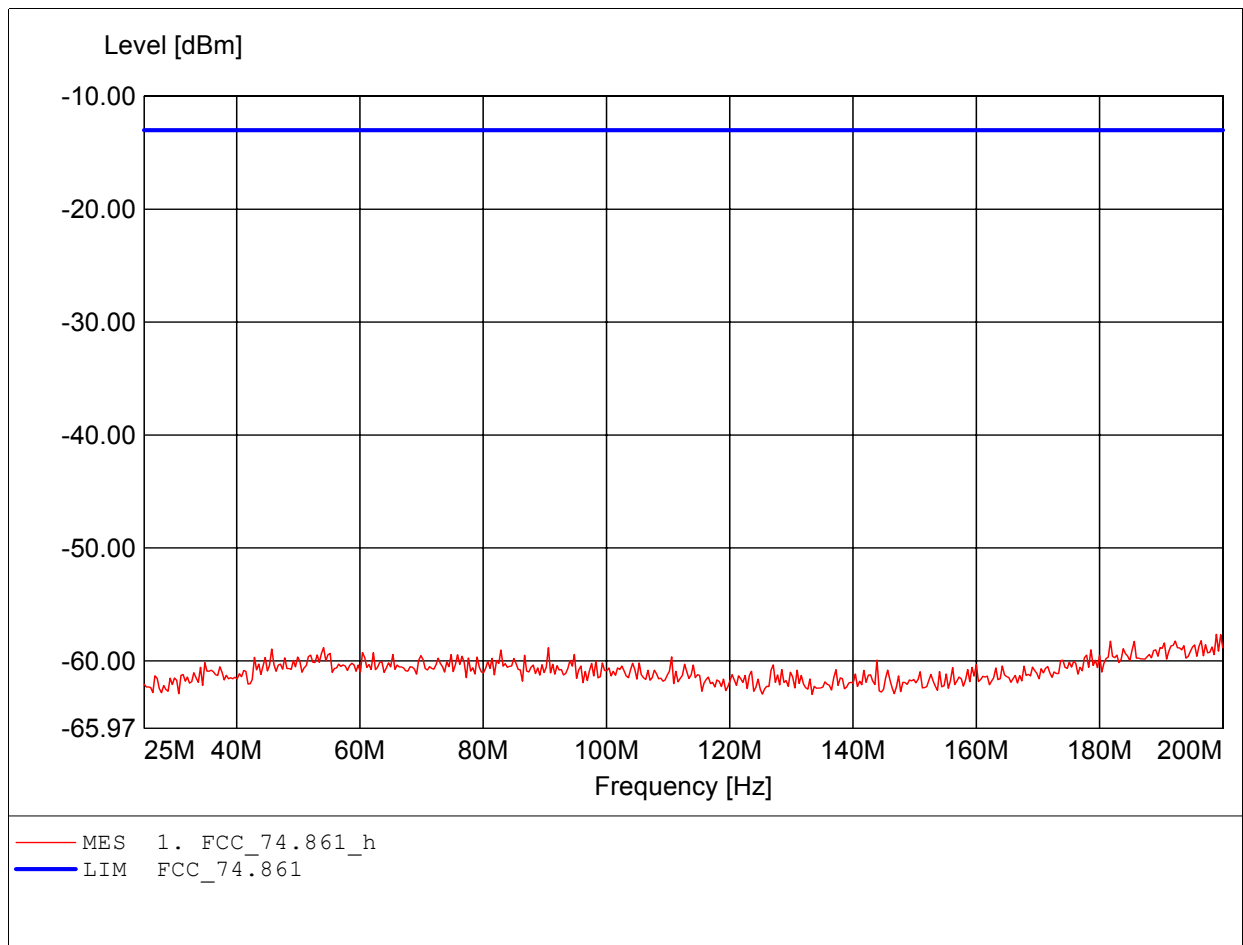
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 615MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 8-18GHz
Freq:12.118GHz Pmax:-35.89dBm RBW: 1 MHz



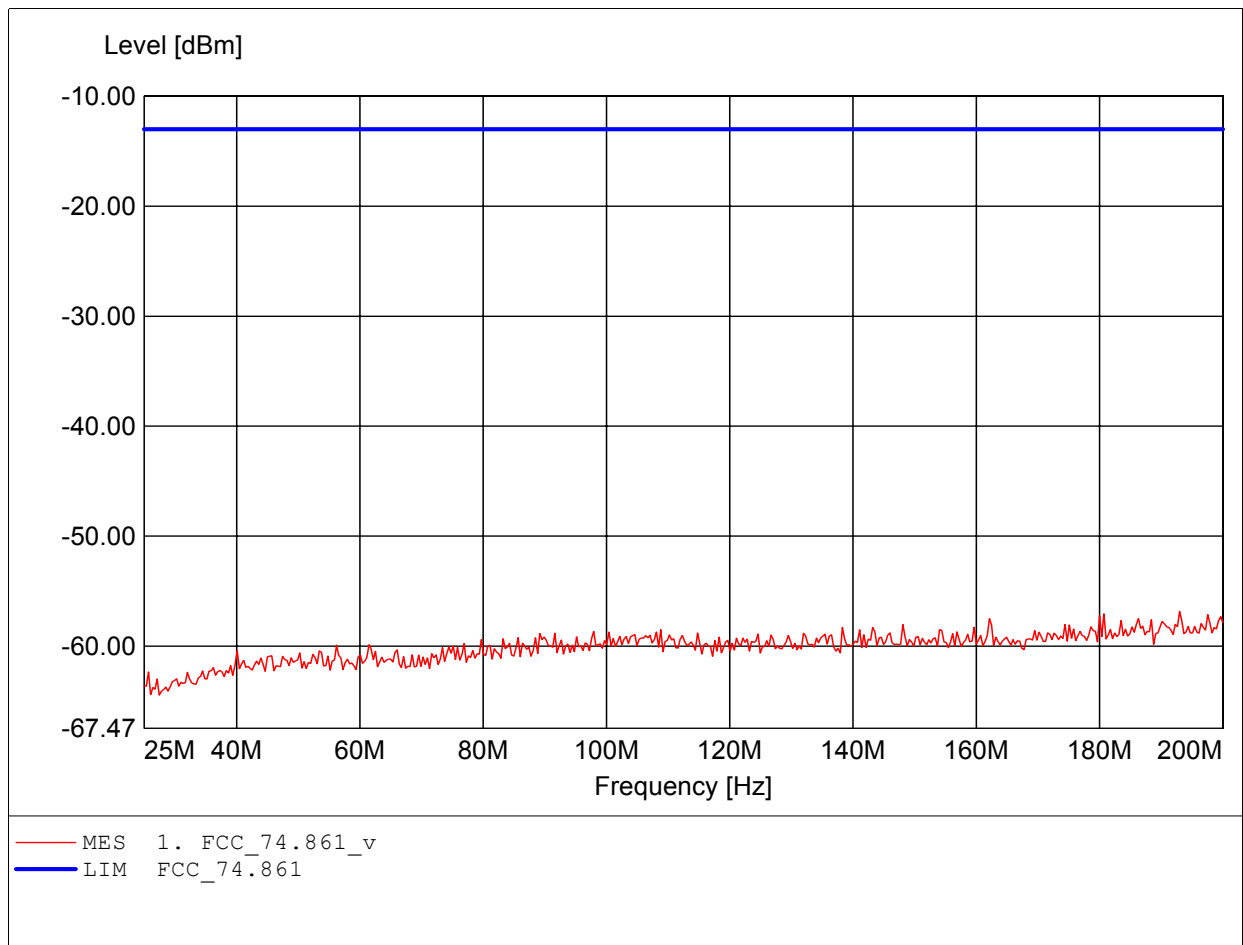
Spurious emissions under normal conditions
in according to FCC Part 74.861

Order Number : W6M20611-7598 711MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:198.948MHz Pmax:-57.64dBm RBW: 100 kHz



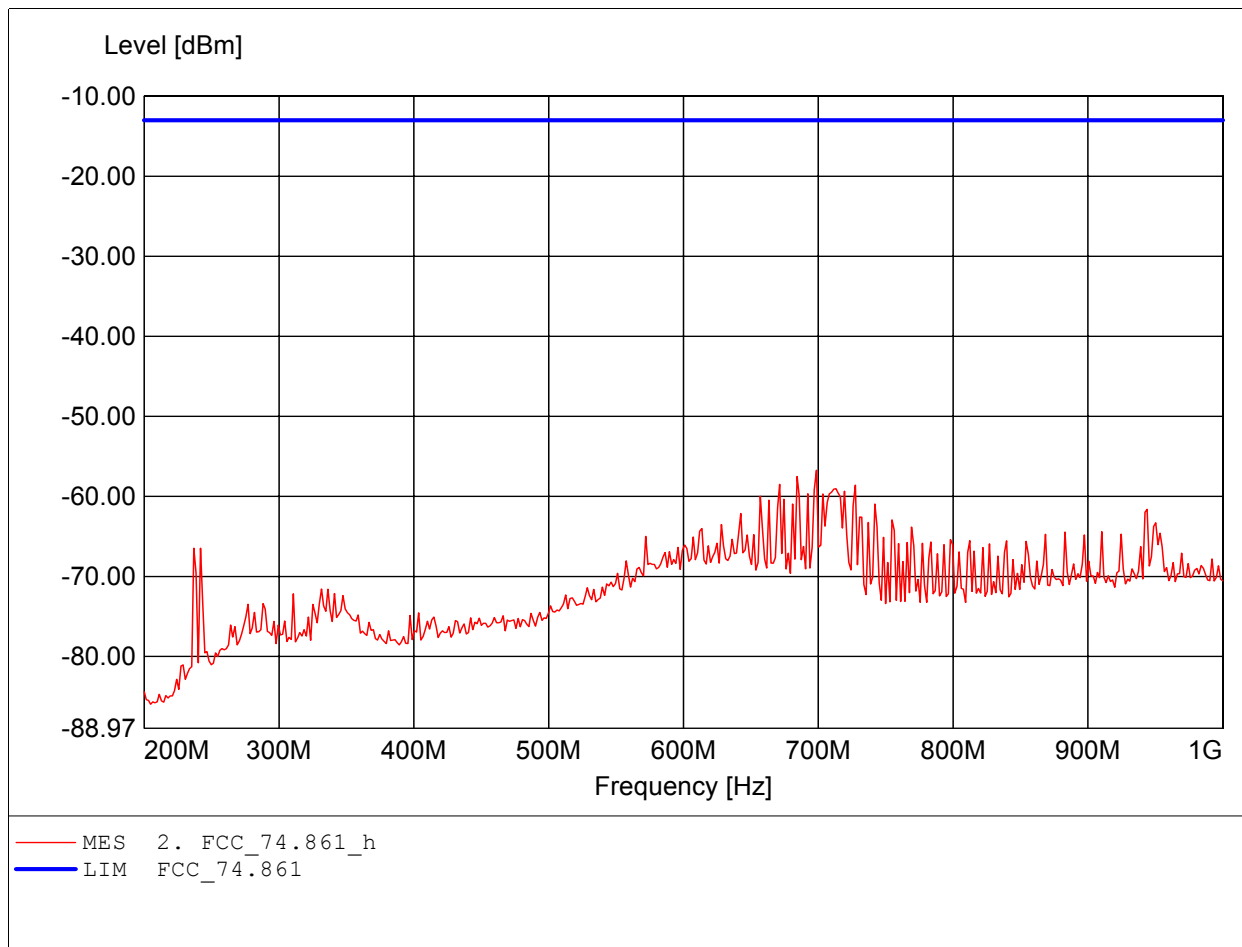
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 711MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:192.986MHz Pmax:-56.84dBm RBW: 100 kHz



**Spurious emissions under normal conditions
in according to FCC Part 74.861**

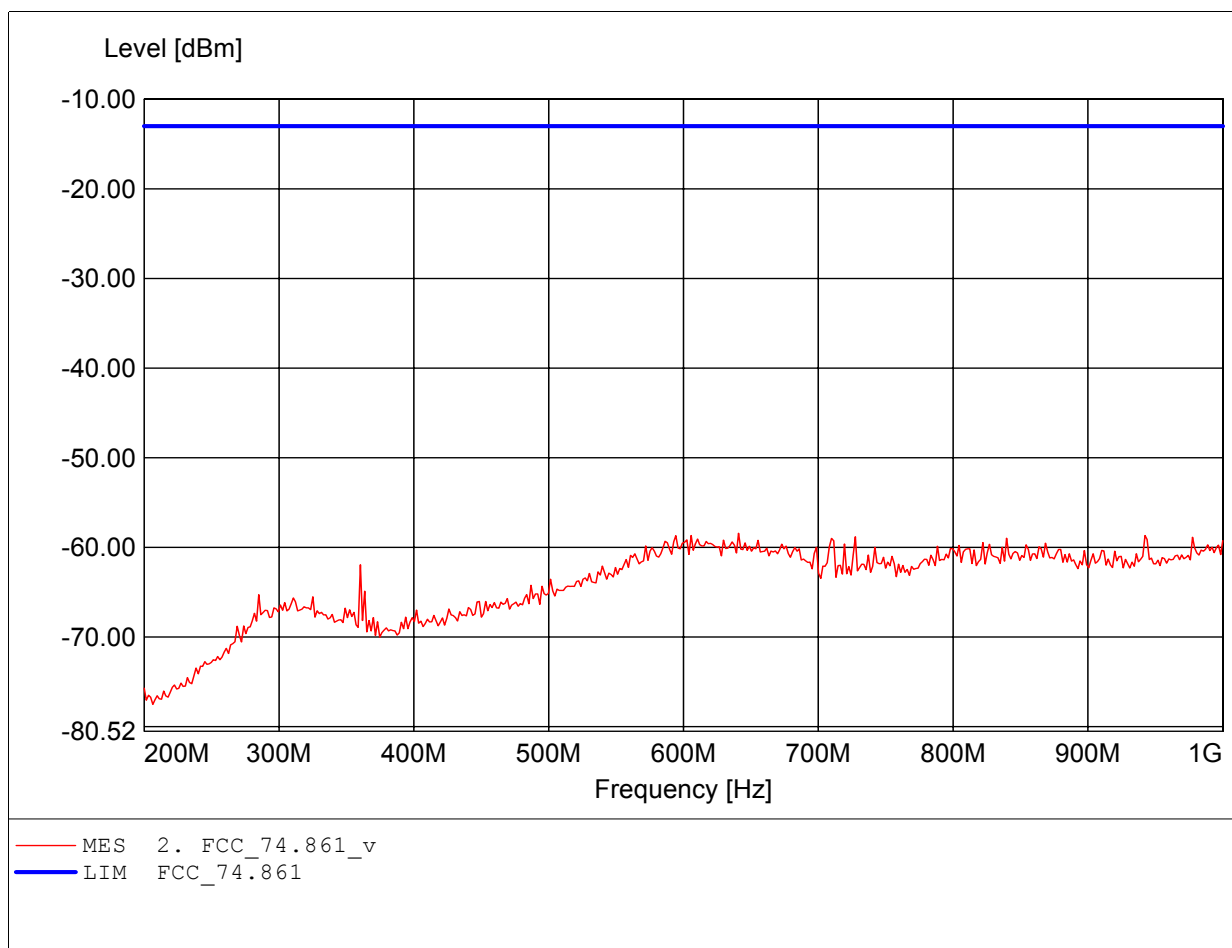
Order Number : W6M20611-7598 711MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.: 0.1-1GHz
Freq:698.597MHz Pmax:-56.74dBm RBW: 100 kHz



Spurious emissions under normal conditions

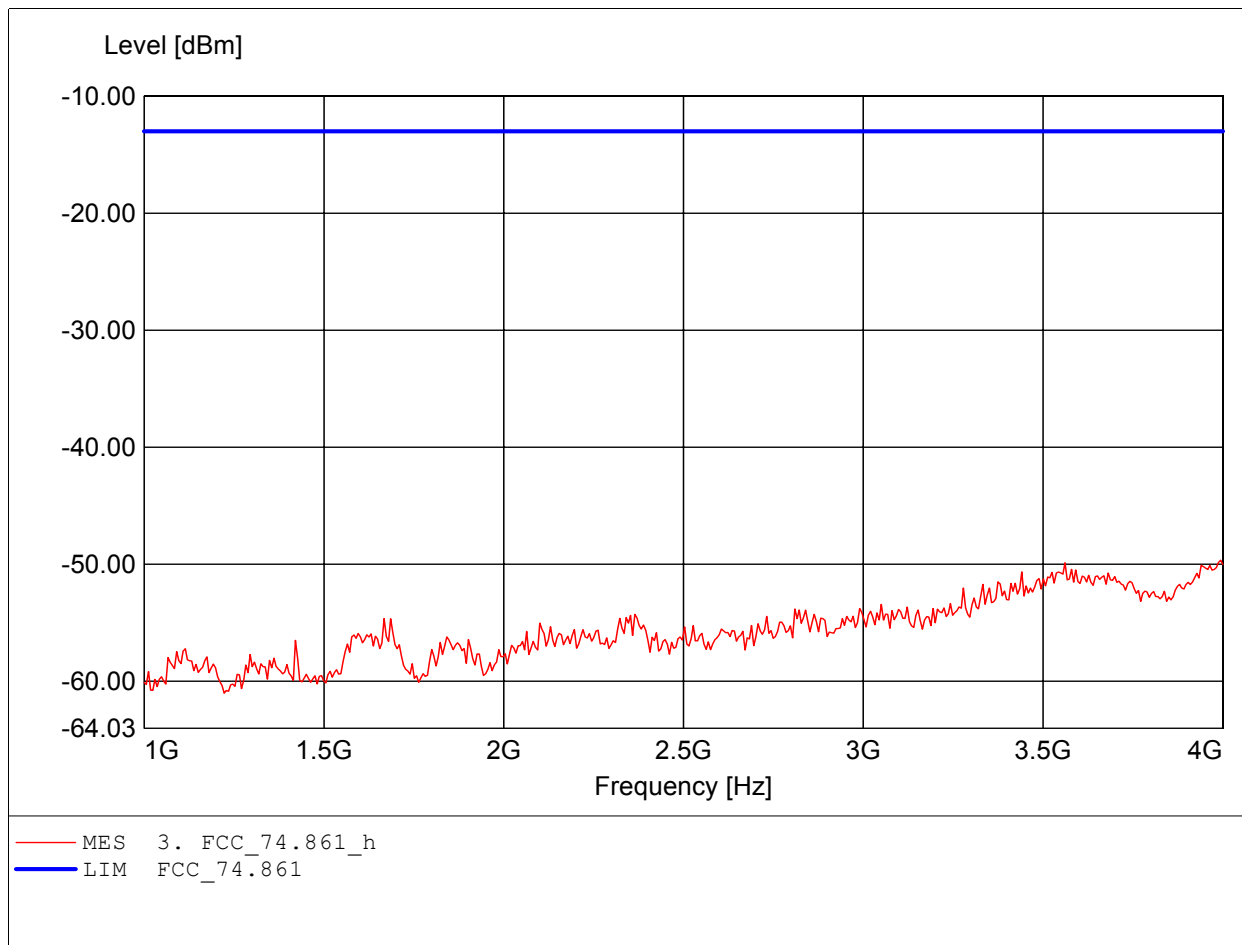
in according to FCC Part 74.861

Order Number : W6M20611-7598 711MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.: 0.1-1GHz
Freq:640.882MHz Pmax:-58.44dBm RBW: 100 kHz



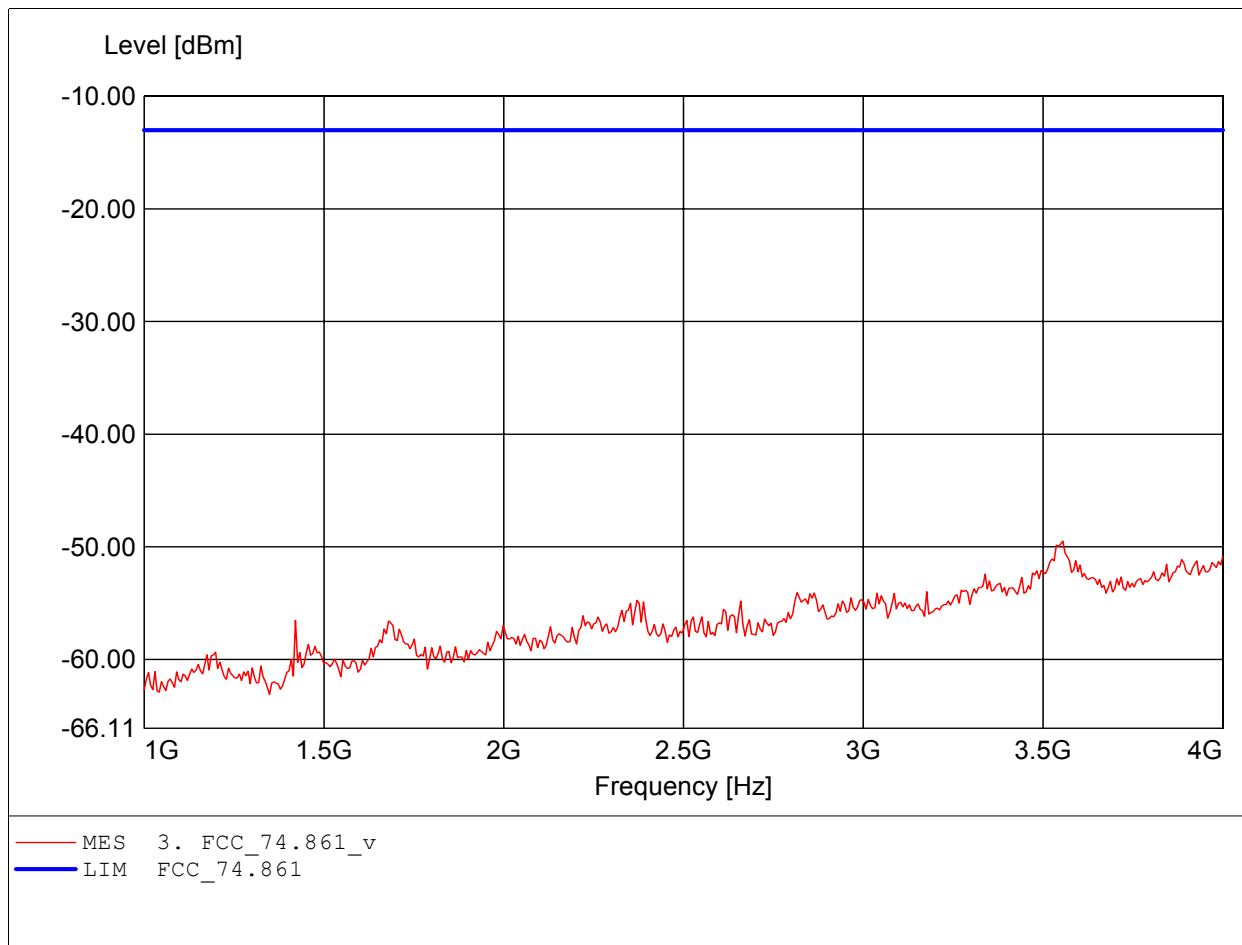
Spurious emissions under normal conditions
in according to FCC Part 74.861

Order Number : W6M20611-7598 711MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.: 1-4GHz
Freq:3.994GHz Pmax:-49.65dBm RBW: 1 MHz



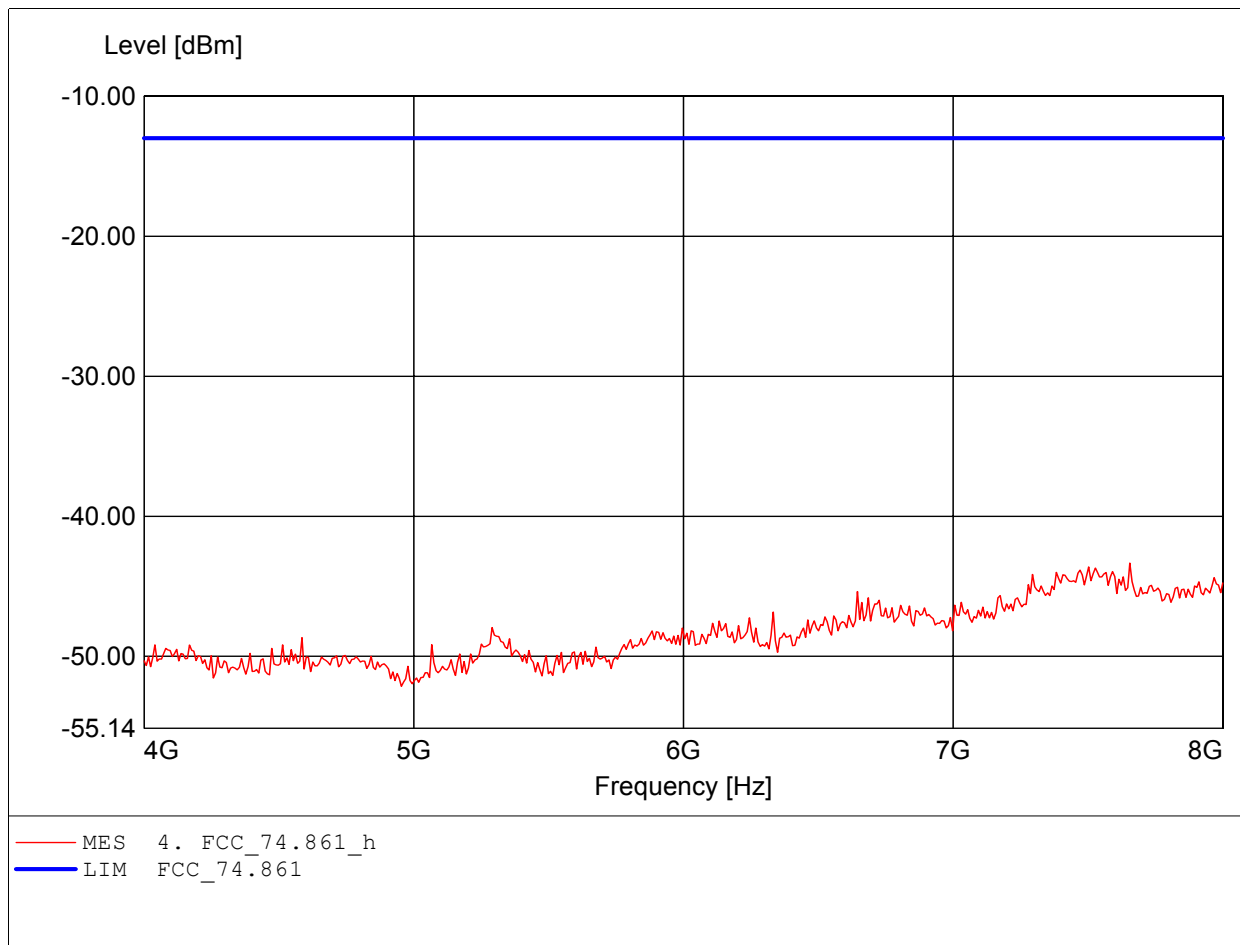
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 711MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.: 1-4GHz
Freq:3.555GHz Pmax:-49.51dBm RBW: 1 MHz



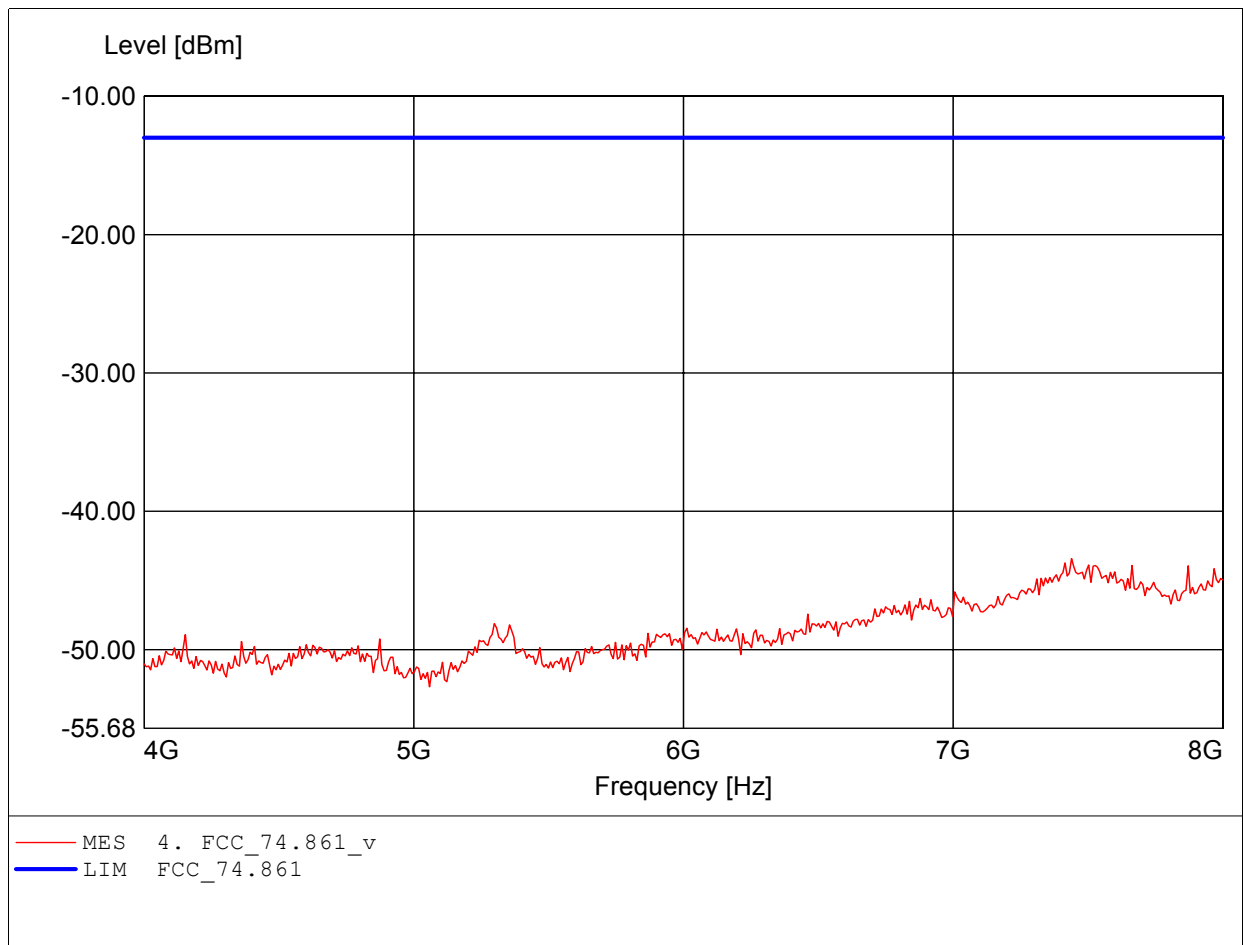
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 711MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 4-8GHz
Freq:7.655GHz Pmax:-43.34dBm RBW: 1 MHz



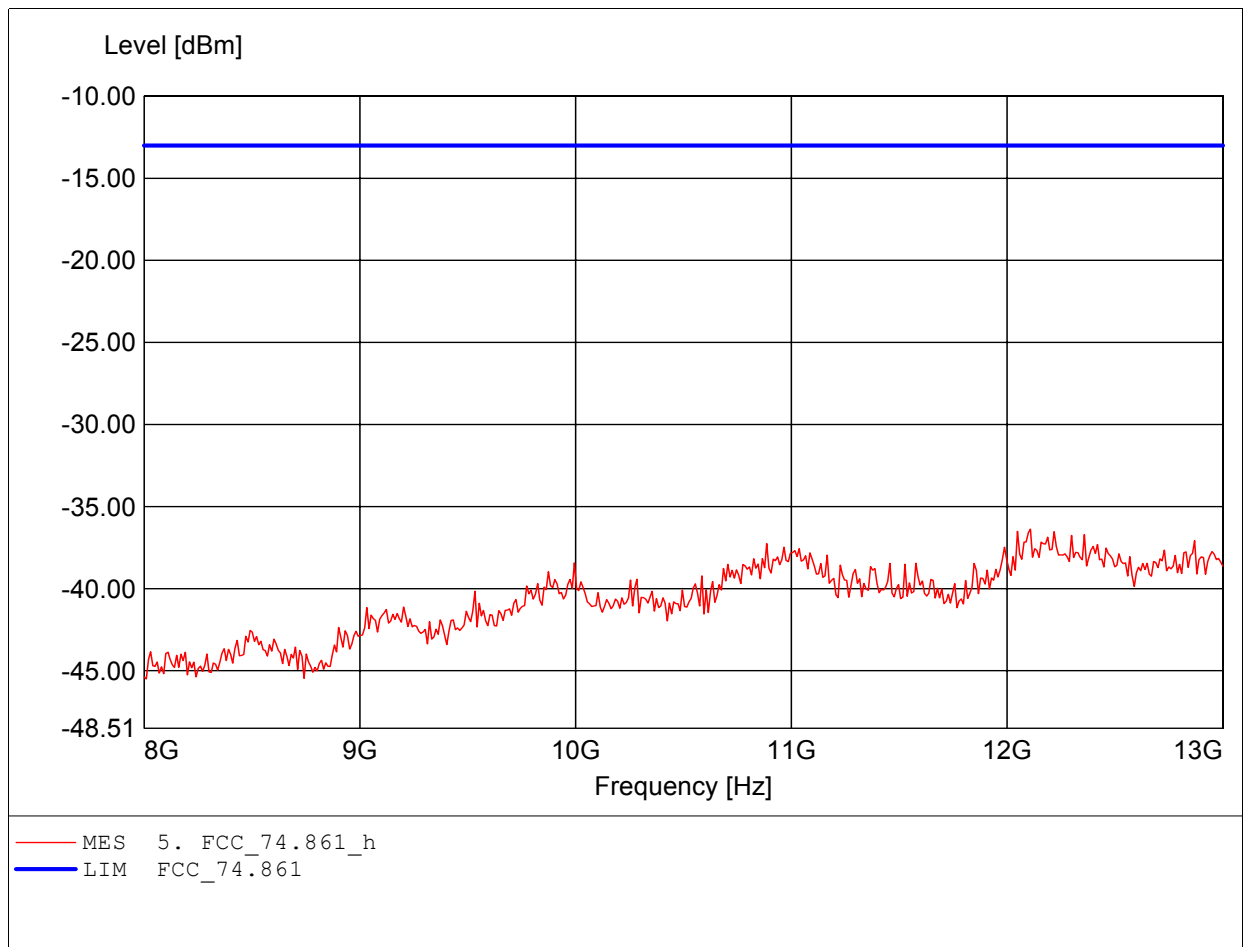
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 711MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 4-8GHz
Freq:7.439GHz Pmax:-43.41dBm RBW: 1 MHz



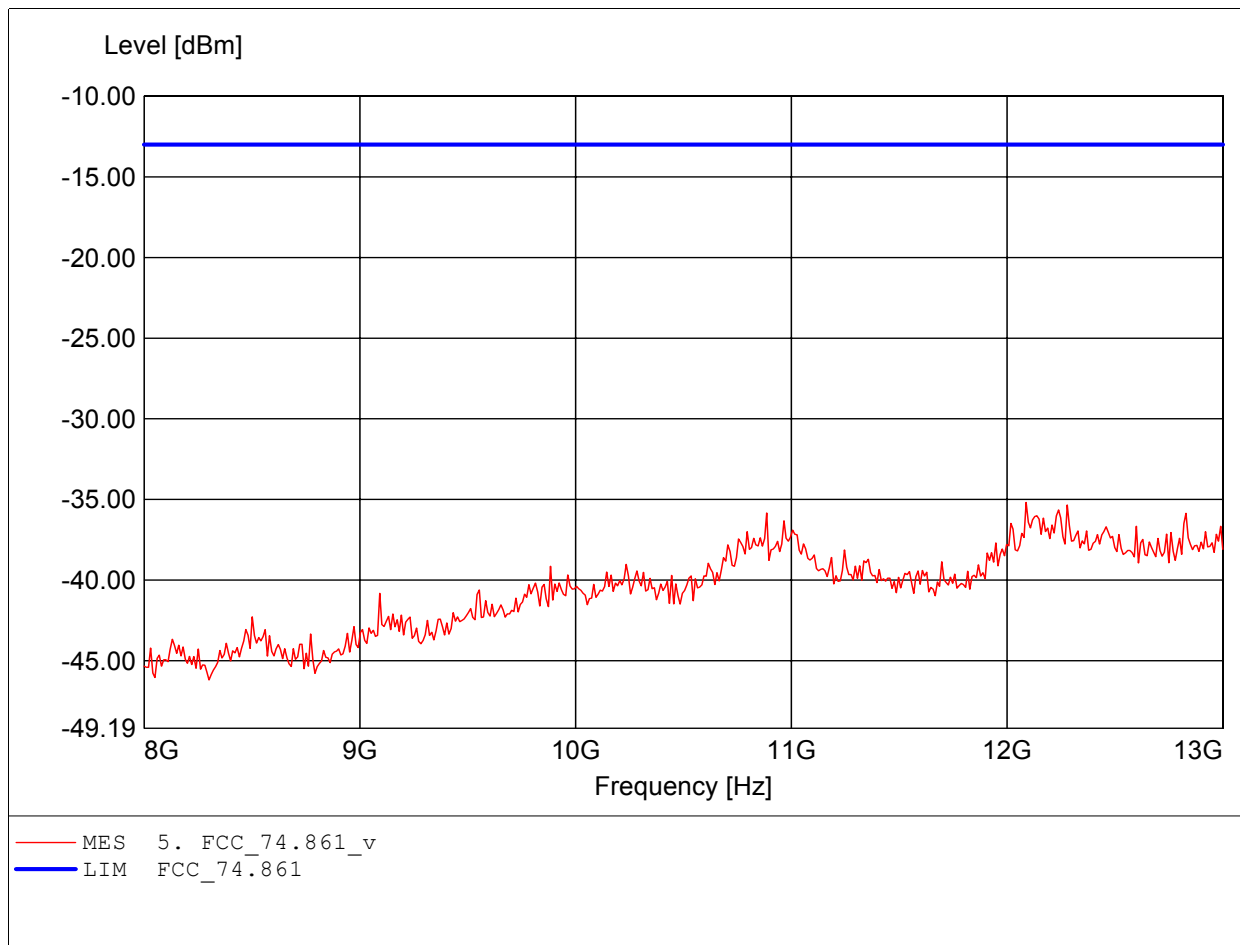
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 711MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 8-18GHz
Freq:12.108GHz Pmax:-36.38dBm RBW: 1 MHz



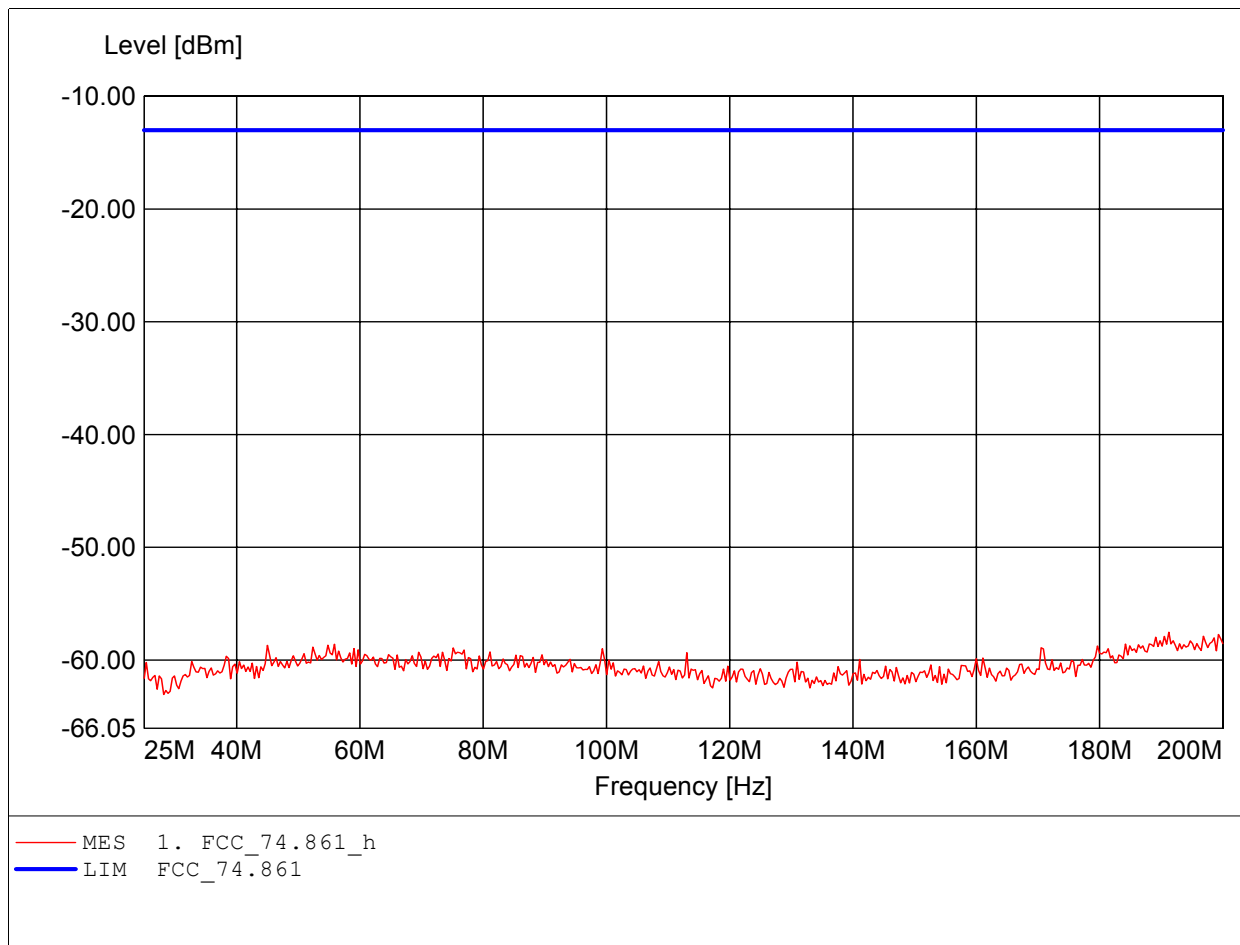
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 711MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 8-18GHz
Freq:12.088GHz Pmax:-35.19dBm RBW: 1 MHz



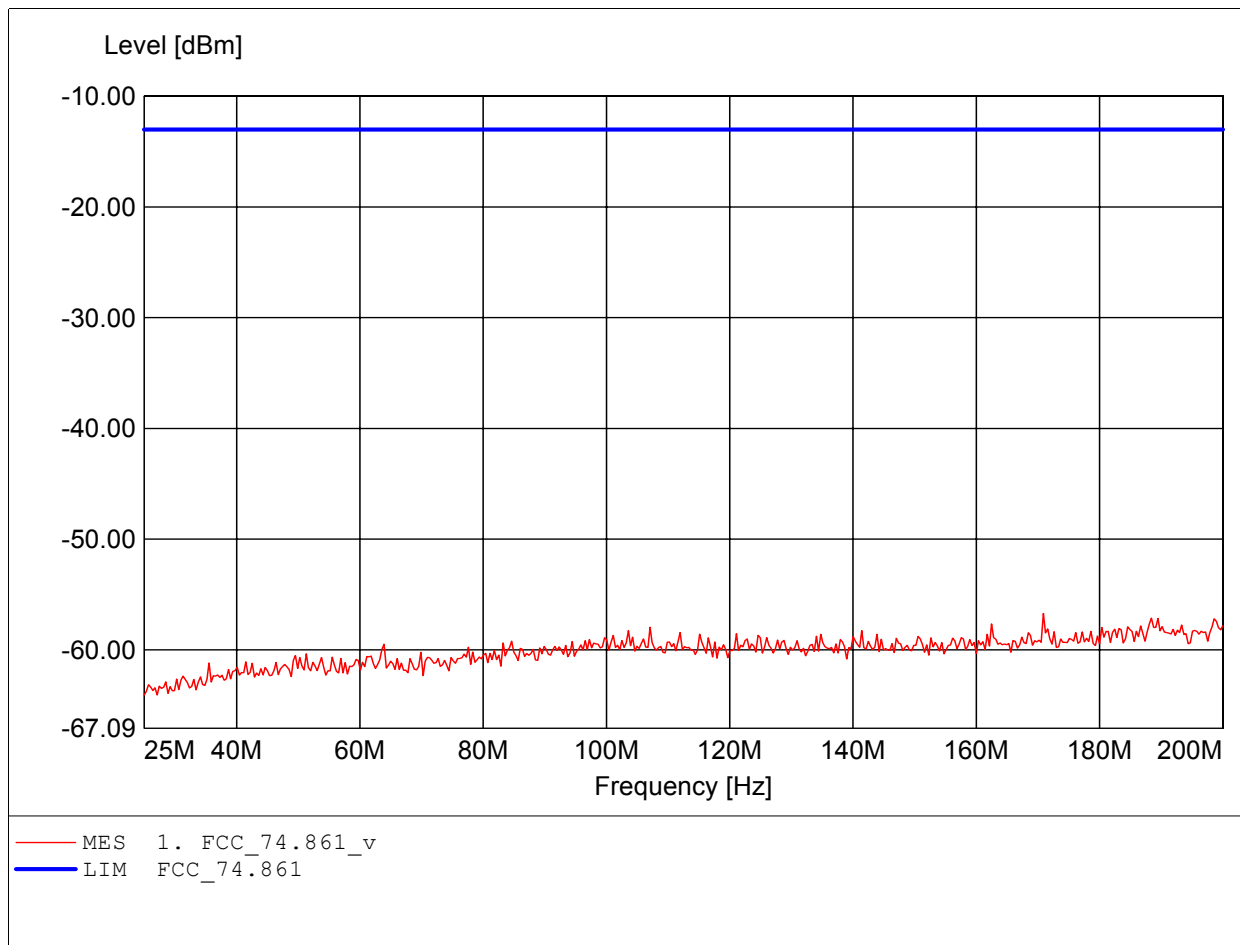
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 805MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:191.232MHz Pmax:-57.53dBm RBW: 100 kHz



**Spurious emissions under normal conditions
in according to FCC Part 74.861**

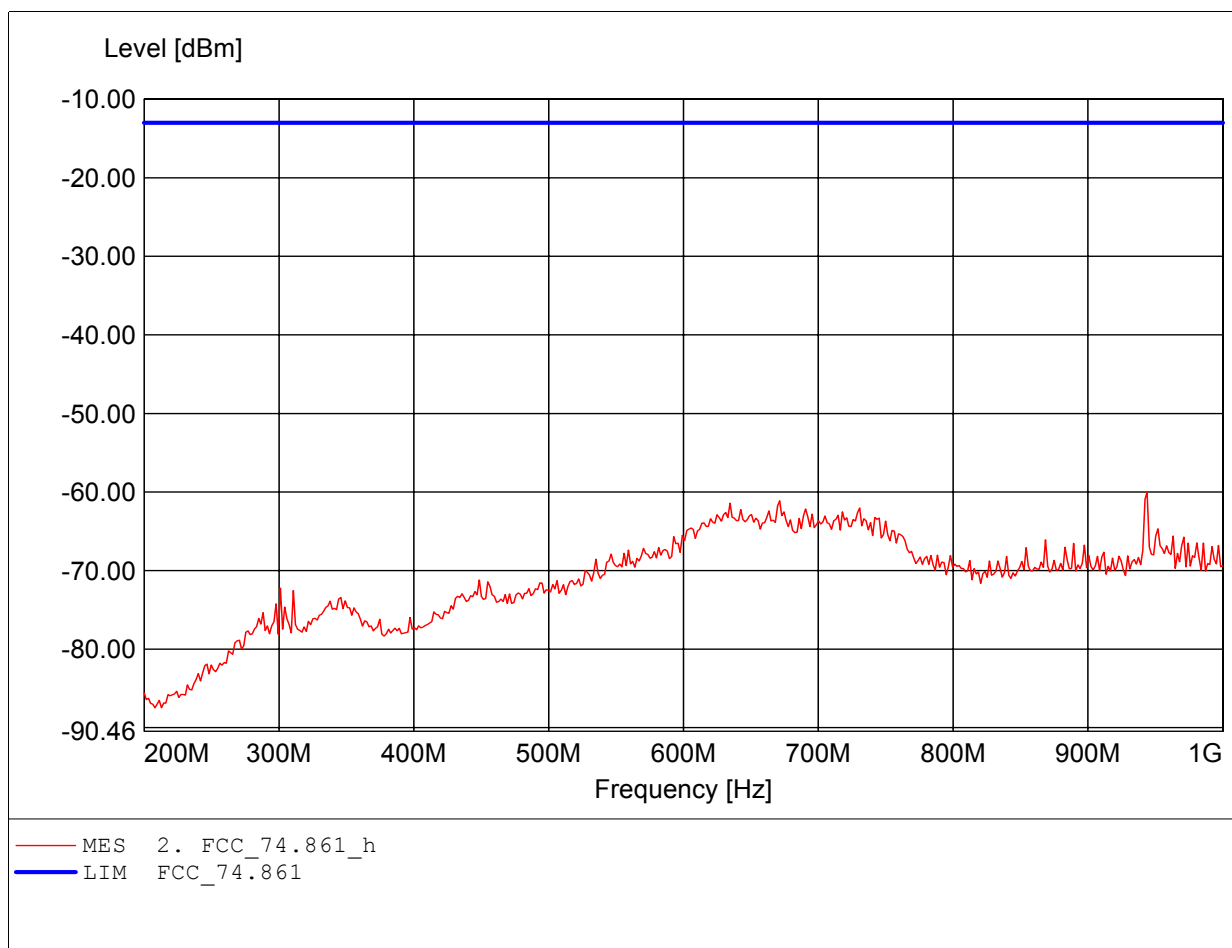
Order Number : W6M20611-7598 805MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:170.892MHz Pmax:-56.72dBm RBW: 100 kHz



Spurious emissions under normal conditions

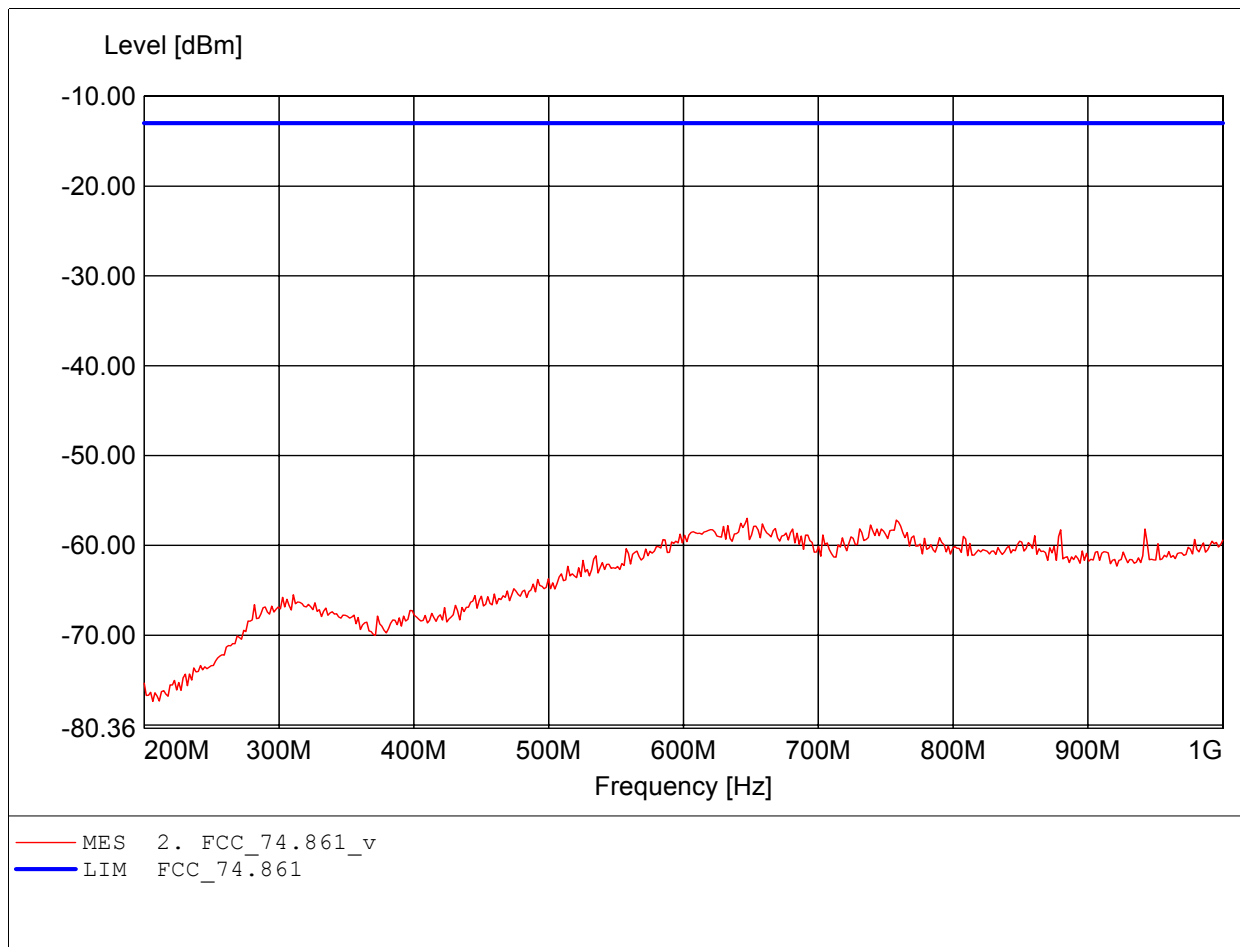
in according to FCC Part 74.861

Order Number : W6M20611-7598 805MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.: 0.1-1GHz
Freq:943.888MHz Pmax:-60.03dBm RBW: 100 kHz



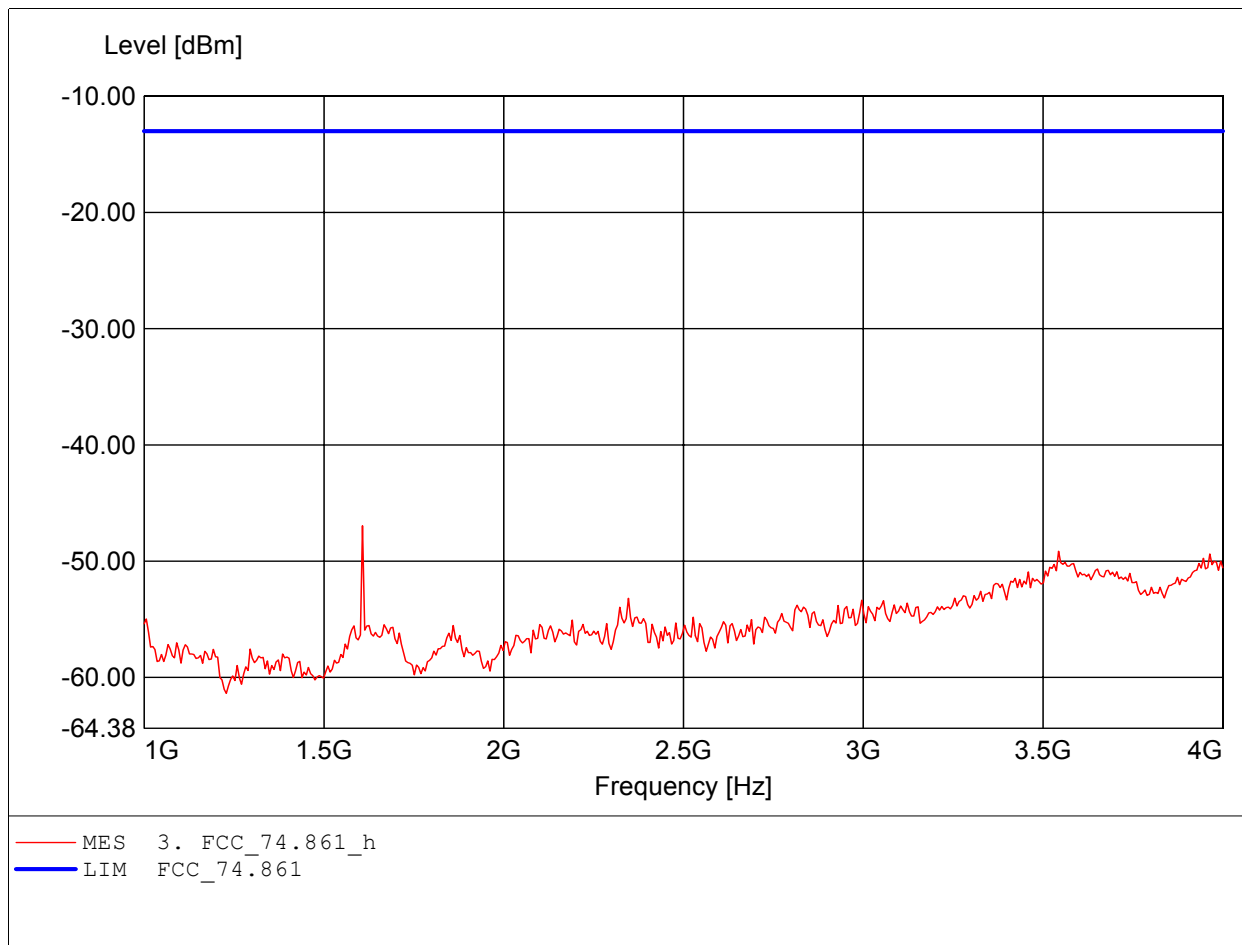
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 805MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.: 0.1-1GHz
Freq:647.295MHz Pmax:-56.98dBm RBW: 100 kHz



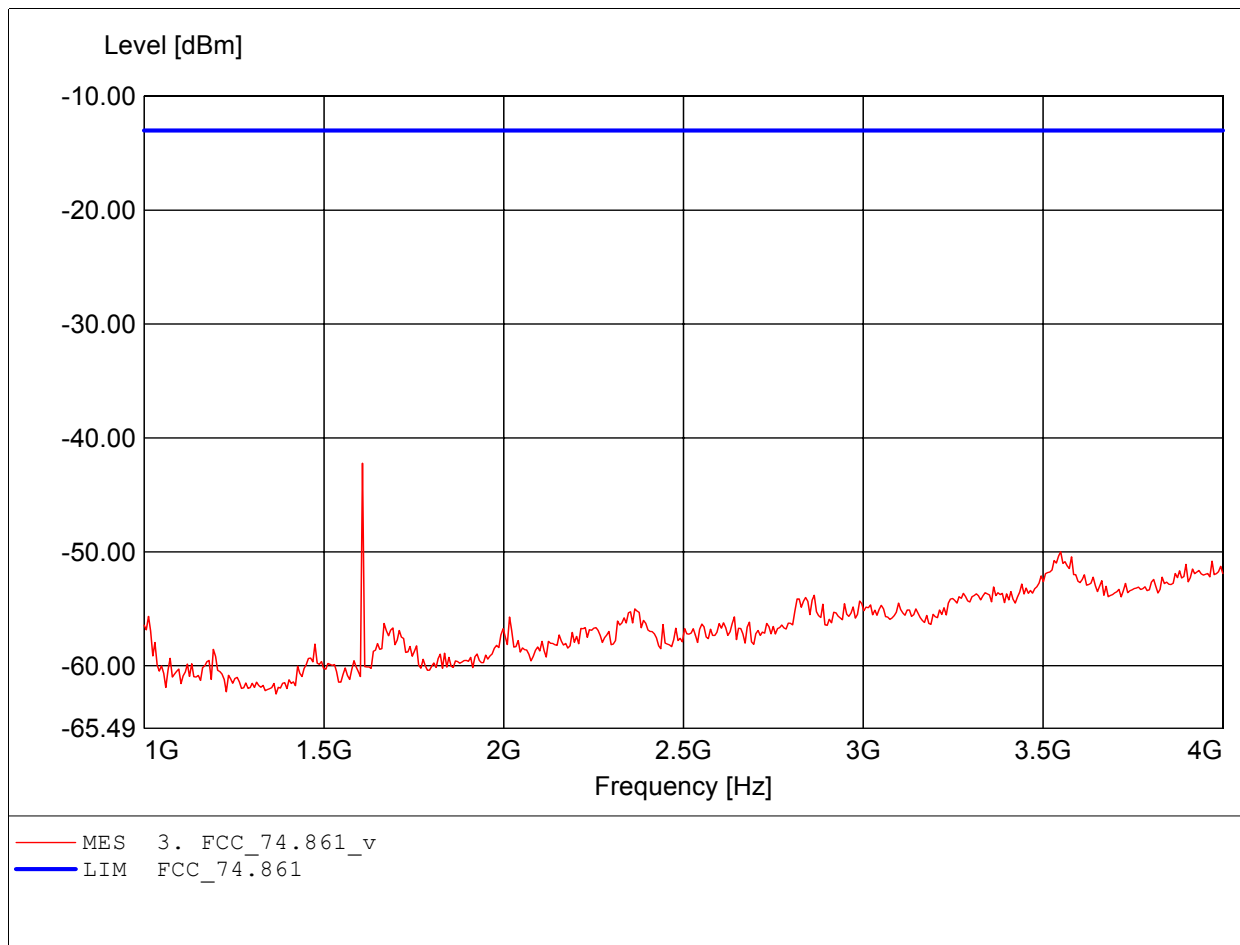
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 805MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.: 1-4GHz
Freq:1.607GHz Pmax:-46.96dBm RBW: 1 MHz



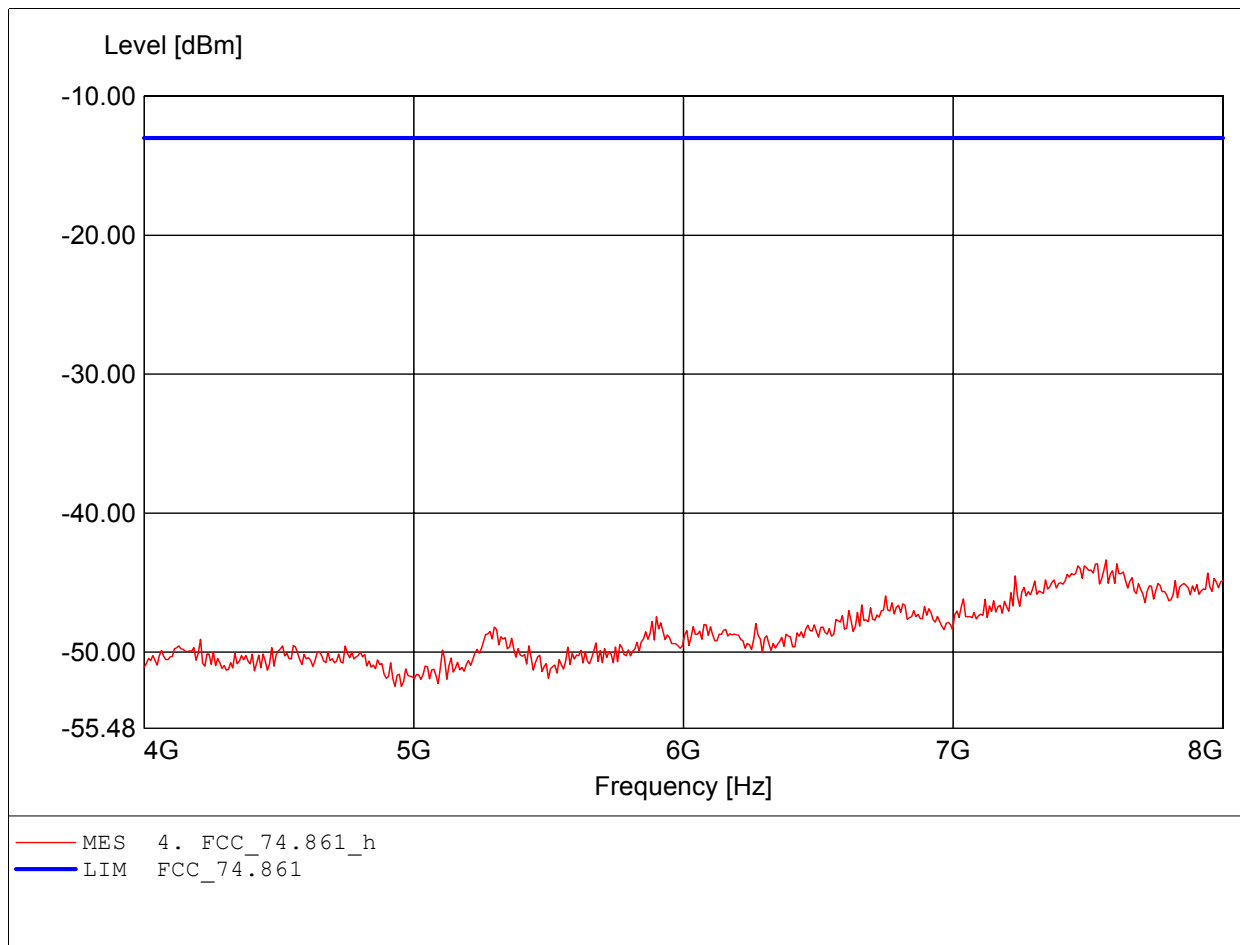
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 805MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.: 1-4GHz
Freq:1.607GHz Pmax:-42.21dBm RBW: 1 MHz



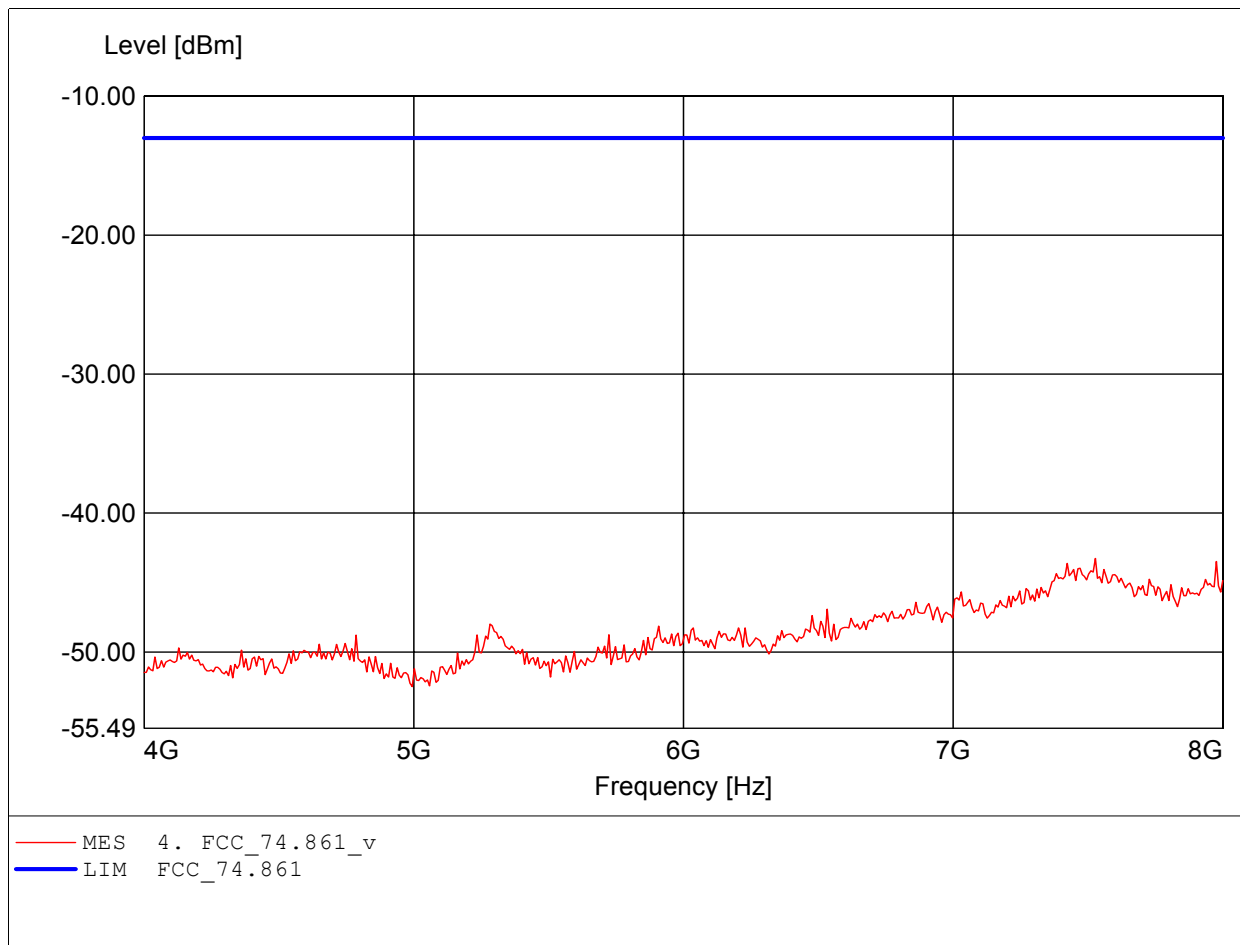
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 805MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 4-8GHz
Freq:7.567GHz Pmax:-43.37dBm RBW: 1 MHz



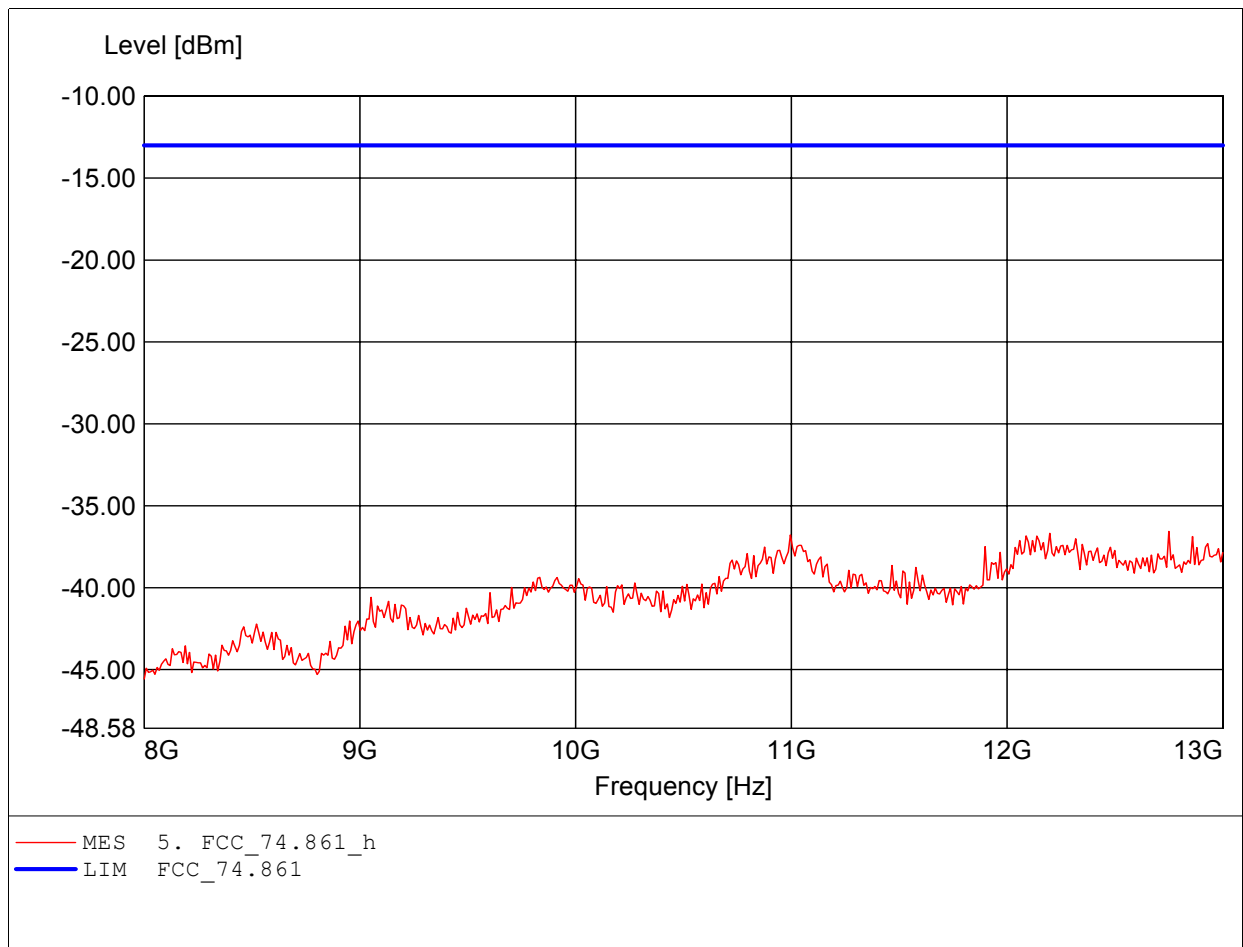
**Spurious emissions under normal conditions
in according to FCC Part 74.861**

Order Number : W6M20611-7598 805MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 4-8GHz
Freq:7.527GHz Pmax:-43.26dBm RBW: 1 MHz



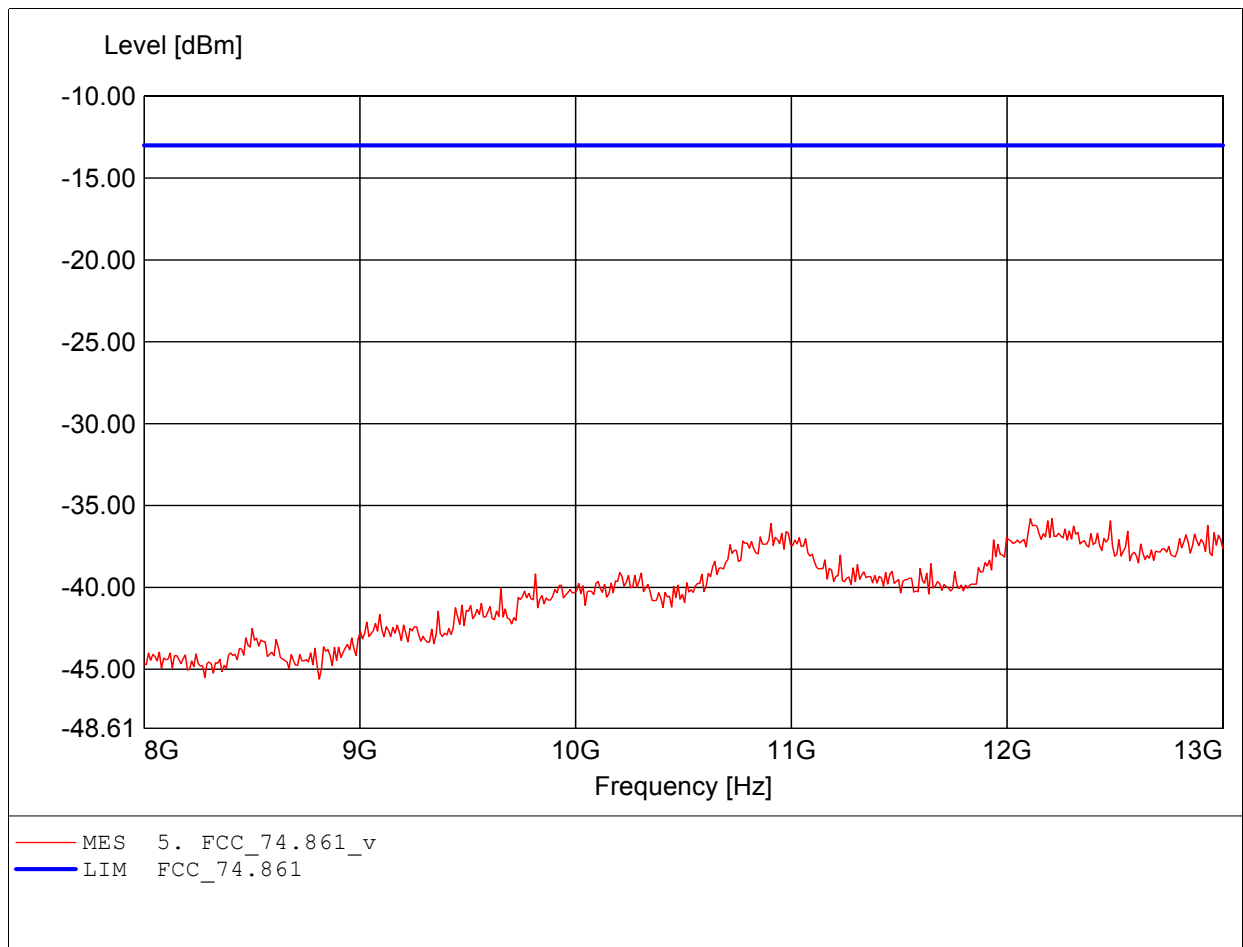
Spurious emissions under normal conditions
in according to FCC Part 74.861

Order Number : W6M20611-7598 805MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 8-18GHz
Freq:12.749GHz Pmax:-36.57dBm RBW: 1 MHz



Spurious emissions under normal conditions
in according to FCC Part 74.861

Order Number : W6M20611-7598 805MHz
Test Site / Operator: ETS / Michael
Temperature:: Temp.: 23.9°C
74.861
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 8-18GHz
Freq:12.108GHz Pmax:-35.80dBm RBW: 1 MHz



Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T

Appendix F

Line Conducted Emissions

This is not required the sample is battery used.

Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T

Appendix G

Frequency Stability vs. Temperature

No diagrams
Refer to point 12.2

Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T

Appendix H

Frequency Stability vs. Voltage

No diagrams
Refer to point 13.2

Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T

Appendix I

Pictures

Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T

External Photos

Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T



Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T



Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T



Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T



Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T

Internal Photos

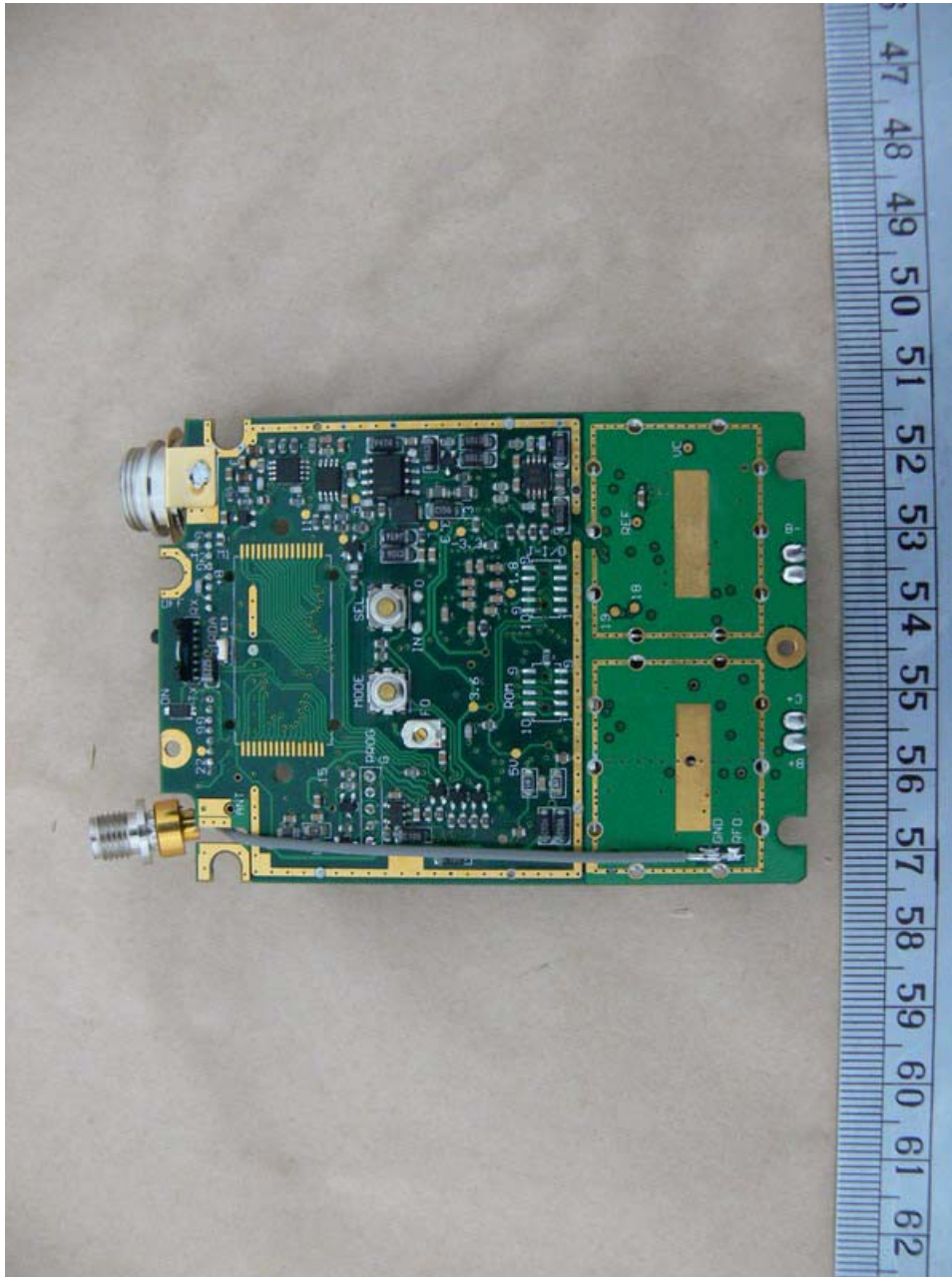
Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T



Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T



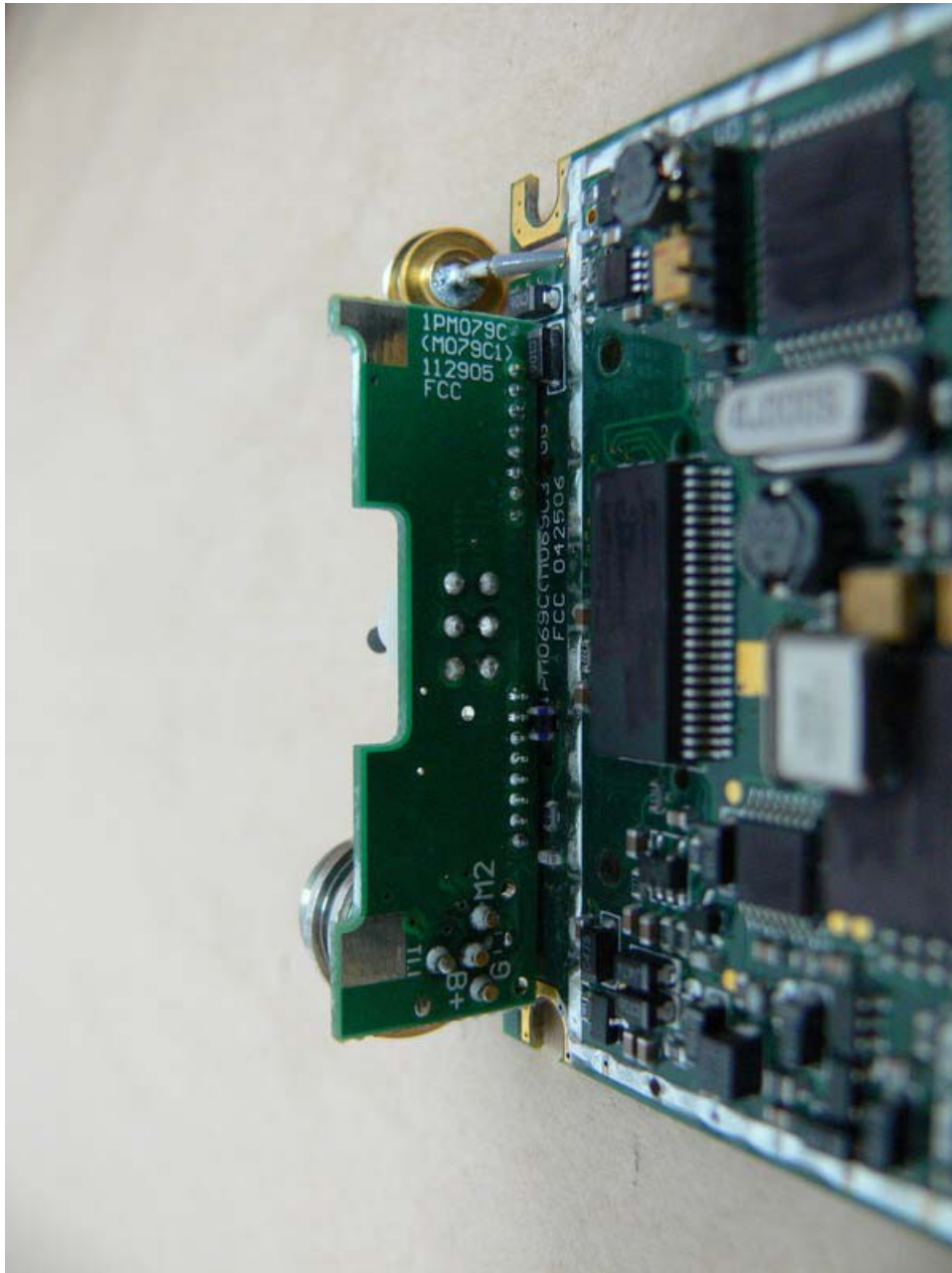
Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T



Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T



Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T



Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T

Setup Photos

Registration number: W6M20611-7598-C-1
FCC ID: M5X-ACT8T

