



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 PART 15 / SUBPART C

FCC ID: H5P-LS-B10W

Test report no.: W6M20606-7110-C-1

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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.

Specific Conditions:

Usage of the hereunder tested device in combination with other integrated or external antennas requires at least additional output power measurements, spurious emission measurements, conducted emission measurements (AC supply lines) and radio frequency exposure evaluations for each individual configuration performed, for certification by FCC.

This report is related to FCC Part 15 C (DSSS device).

Tester:

July 11, 2006

Orville Chang

Date

ETS-Lab.

Name

Signature

Technical responsibility for area of testing:

July 11, 2006

Steven Chung

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

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1.3 Details of approval holder

Name	: TOPCON CORPORATION
Street	: 75-1, Hasunuma-cho
Town	: Itabashi-ku, Tokyo
Country	: 174-8580 Japan
Telephone	: +81-3-3558-2577
Fax	: +81-3-3966-0038

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1.4 Application details

Date of receipt of application : June 26, 2006
Date of receipt of test item : June 30, 2006
Date of test : from July 01, 2006 to July 10, 2006

1.5 General information of Test item

Type of test item : Laser Sensor
Model Number : LS-B10W
Brand Name : ./.

Hardware : Ver.1.0
Software : Ver.1.0
Serial number : ./.
Photos : see Annex

Technical data

Frequency band : 2.4 GHz – 2.4835 GHz
Frequency (ch A) : 2.405 GHz
Frequency (ch B) : 2.440 GHz
Frequency (ch C) : 2.480 GHz
Number of Channels : 16
Operation modes : duplex
Modulation Type : DSSS

Fixed point-to-point operation: ☐ Yes / ☒ No
Type of Antenna : Ceramic antenna
Antenna gain of Antenna : 1.64 dBi
Power supply : 4.5 VDC (battery)
Emission designator : 2M7G1D



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Host device: none

Classification :

Fixed Device	☐
Mobile Device (Human Body distance > 20cm)	☒
Portable Device (Human Body distance < 20cm)	☐

Transmitter

Unom

Power (ch A) : Conducted: 0.03 dBm

Power (ch B) : Conducted: 0.30 dBm

Power (ch C) : Conducted: 0.30 dBm

Manufacturer: (if different from applicant)

Name : ./.

Street : ./.

Town : ./.

Country : ./.

Additional information: ./.

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART B / SUBPART C § 15.247 : September 2005

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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
Power supply	: 4.5 VDC(battery)
Extreme conditions parameters	: --

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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 002	PREREULATOR MODE DC POWER SUPPLY	None	None	T-POWER	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	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-CS 001	SIGNAL GENERATOR	SMX	849254/003	R&S	2005/10/14	2006/10/13
ETSTW-CS 002	COUPLING AND DECOUPLING NETWORK	CDN S751	19263	SCHAFFNER	2005/10/14	2006/10/13
ETSTW-CS 003	COUPLING AND DECOUPLING NETWORK	CDN T400	19820	SCHAFFNER	2005/10/14	2006/10/13
ETSTW-CS 004	COUPLING AND DECOUPLING NETWORK	CDN M016	20053	SCHAFFNER	2005/10/27	2006/10/26
ETSTW-CS 005	RF Power Amplifier	100A250A	306547	AR	2005/10/14	2006/10/13
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 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 026	Open Area Test Site	10m	None	ETS	NSA Measurement	
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
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 001	Clamp BASELSTRASSE 160 CH-4242 LAUFEN	CN-EFT1000	354	EMC-PARTNER	2004/11/2	2006/11/1

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ETSTW-EMS 002	Frequency Converter	YF-6020	0308014	T-POWER	Function Test	
ETSTW-EMS 003	EMC Immunity Test System	TRA2000IN6	579	EMC-PARTNER	2005/10/27	2006/10/26
ETSTW-EMS 004	ESD generator minizap	ESD2000	016	EMC-PARTNER	2005/10/27	2006/10/26
ETSTW-EMS 005	Attenauter (50Ω)	VERI50	051	EMC-PARTNER	2004/8/31	2006/8/30
ETSTW-EMS 006	Attenauter (1 KΩ)	VERI1K	019	EMC-PARTNER	2004/10/21	2006/10/20
ETSTW-EMS 008	Safety Test Solutions	ELT-400	E-0039	Narda	2005/5/4	2007/5/3
ETSTW-EMS 009	Magnetic Field Antenna	MF1000-1	104	EMC-PARTNER	2004/12/3	2007/12/2
ETSTW-EMS 010	Coupling De-coupling Network	CDN-UTP8	014	EMC-PARTNER	2005/9/1	2008/8/31
ETSTW-EMS 011	Calibration Fixture	F-2031-CF-23MM	451	FCC	2005/8/11	2007/8/11
ETSTW-EMS 012	EM Injection Clamp	F-2031-23MM	476	FCC	2005/8/11	2007/8/10
ETSTW-RS 003	RF Power Amplifier	30S1G3	306933	AR	Function Test	
ETSTW-RS 004	RF Power Amplifier	150W1000	307009	AR	2005/10/21	2006/10/20
ETSTW-RS 005	Electric Field Probe Type 8.3	EMR-20	BN 2244/20	Narda	2005/9/7	2007/9/6
ETSTW-RS 006	SIGNAL GENERATOR	SML03	101551	R&S	2005/10/21	2006/10/20
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	2004/7/14	2006/7/13
ETSTW-GSM 04	Agilent 8960 Test Set 2	E5515C	GB44052665	Agilent	2004/7/14	2006/7/13
ETSTW-GSM 05	Agilent 8960 Test Set 3	E5515C	GB44052652	Agilent	2004/7/17	2006/7/16
ETSTW-GSM 06	Agilent 8960 Test Set 4	E5515C	GB44052684	Agilent	2004/7/16	2006/7/15
ETSTW-GSM 07	Agilent 8960 Test Set 5	E5515C	GB44052658	Agilent	2004/7/14	2006/7/13
ETSTW-GSM 08	Agilent 8960 Test Set 6	E5515C	GB44052666	Agilent	2004/7/16	2006/7/15
ETSTW-GSM 09	Controller PC	Dell GX 270	700F61J	Dell	Function Test	
ETSTW-GSM 10	Combiner Wessex / Anite	B4605/100	053	Wessex / Anite	2004/7/14	2006/7/13
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 13	Conditioning Amplifier	2690--0S2	2437856	Brüel&Kjær		
ETSTW-GSM 14	Telephone Test Head	4602B	2465324	Brüel&Kjær		
ETSTW-GSM 15	Mouth Simulator	4227	2462516	Brüel&Kjær		
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 %.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dB μ V) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

Freq (MHz)	METER READING + ACF + CABLE LOSS (to the receiver) = FS
33	20 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @3m

The UUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.4-2003 Section 13.1.2. 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 ETS Dr.Genx Taiwan PS Co., Ltd. at the registered open field test site located at No.5-1, Shuang Sing Village, LiShuei Rd., Wanli Township, Taipei County 207, Taiwan (R.O.C.) The Registration Number: 930600.

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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.

When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

The formula is as follows:

Average = Peak + Duty Factor

Duty Factor = $20 \log (\text{dwell time}/T)$

T = 100ms when the pulse train period is over 100 ms or the period of the pulse train.

Modified Limits for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

ANTENNA & GROUND:

This unit uses Ceramic Antenna. (see photos)

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3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)(3)	☒	☒	☐
Equivalent radiated Power	15.247(b)(3)	☒	☒	☐
Spurious Emissions radiated – Transmitter operating	15.247(c)	☒	☒	☐
Band Edge Measurement	15.247(c)	☒	☒	☐
Minimum 6 dB Bandwidth	15.247(a)(2)	☒	☒	☐
Peak Power Spectral Density	15.247(d)	☒	☒	☐
Radiated Emission from Digital Part And Receiver L.O.	15.109	☒	☒	☐
Power Line Conducted Emission	15.207	☐	☐	☐

The follows is intended to leave blank.

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3.1 Peak Output Power (transmitter)

FCC Rule: 15.247(b)(3)

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

The power was measured with modulation (declared by the applicant).

Test condition		Conducted Power		
		Channel A	Channel B	Channel C
		[dBm]	[dBm]	[dBm]
$T_{nom} = 23^{\circ}\text{C}$	$V_{nom} = 4.5 \text{ V}$	0.03	0.30	0.30
Measurement uncertainty		< 3 dB		

Test condition $T_{nom} = 23^{\circ}\text{C}$, $V_{nom} = 4.5 \text{ V}$	Signal Field strength TX highest power mode dB $\mu\text{V/m}$
Frequency [MHz]	2404
	91.13
Measurement uncertainty	< 3 dB

Remarks: The diagrams for the field strength measurements are included in Appendix.

Limits:

Frequency MHz	Power dBm
902 - 928	30
2400 – 2483.5	30
5725 – 5850	30

In case of employing transmitter antennas having antenna gain $> 6 \text{ dBi}$ and using fixed point-to-point operation consider §15.247 (b)(4)

Test equipment used: ETSTW-RE 003 , ETSTW-RE 012 , ETSTW-RE 017 , ETSTW-RE 024

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3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain

EIRP = 0.30 dBm + 1.64 dBi

= 1.94 dBm

Limit: EIRP = +36 dBm for Antenna gain <6dBi

3.2.1 Transmitter

Integral Antenna:

At the transmitter the measurement was transacted with the modulation declared by the manufacturer and the maximum available output power of the EUT.

In this arrangement the EUT fulfils the requirements of the FCC rules § 15.247, subpart C, section b.

3.3 RF Exposure Compliance Requirements

The test sample is a WLAN access point intended for fixed installation.

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

$$S = \frac{PG}{4\pi R^2}$$

S – Power Density

P – Output power ERP

R – Distance

D – Cable Loss

AG – Antenna Gain G = AG-D

Item	Unit	Value	Remarks
P	mW	1.07152	Peak value
D	dB		
AG	dBi	1.5	
G		1.64	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.0003	Calculated value

Limits:

Limit for General Population / Uncontrolled Exposure	
Frequency (MHz)	Power Density (mW/cm ²)
1500 – 100.000	1,0

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3.4 Transmitter Radiated Emissions in Restricted Bands

FCC Rules: 15.247 (c), 15.205, 15.209, 15.35

Radiated emission measurements were performed from 30 MHz to 1000 MHz.

For radiated emission tests, the analyzer setting was as followings:

Frequency $\leq$ 1 GHz, RBW:100 kHz, VBW: 100 kHz (Peak measurements)

Frequency $>$ 1 GHz, RBW: 1 MHz, VBW: 1 MHz (Peak measurements)

Frequency $>$ 1 GHz , RBW:1 MHz , VBW: 100Hz (Average measurements)

Limits.

For frequencies below 1GHz:

Frequency of Emission (MHz)	Field strength (microvolts/meter)	Field Strength (dB microvolts/meter)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above	500	54.0

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of DSSS Systems:

“If the emission is pulsed, modify the unit for continuous operation, use the setting shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty cycle correction = $20 \log (\text{dwell time} / 100\text{ms})$

No duty cycle correction was added to the reading.

$54.0\text{dB } \mu\text{V/m} + 20 \text{ dB} = 74 \text{ dB } \mu\text{V/m}$

Remarks: see attached diagrams

Test equipment used: ETS 0125, ETS 0271

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3.5 Spurious Emissions (tx)

Spurious emission was measured with modulation (declared by manufacturer).

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))

FCC Rule: 15.247(c), 15.35

For out of band emissions that are close to or that exceed the 20 dB attenuation requirement described in the specification, radiated measurements were performed at a 3 m separation distance to determine whether these emissions complied with the general radiated emission requirement.

Limits:

For frequencies below 1GHz:

Max. reading – 20 dB

91.13 dB μ V/m- 20 dB= 71.13 dB μ V/m

Guidance on Measurement of DSSS Systems:

“If the emission is pulsed, modify the unit for continuous operation, use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty Cycle correction = $20 \log (\text{dwell time}/100\text{ms})$

For frequencies above 1GHz (Peak measurements).

Limit = max. aver. Reading-20dB+20dB(because Peak detector is used)

71.13 dB μ V/m

For frequencies above 1GHz (Average measurements).

Max. reading – 20dB

No duty cycle correction was added to the reading

91.13 dB μ V/m- 20 dB= 71.13 dB μ V/m

Remarks: see attached diagrams

Test equipment used: ETSTW-RE 003 , ETSTW-RE 012 , ETSTW-RE 015 , ETSTW-RE 016 , ETSTW-RE 017 , ETSTW-RE 024

Registration number: W6M20606-7110-C-1
FCC ID: H5P-LS-B10W

SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance with point 2.3.

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.

The peak and average spurious emission plots was measured with the average limits.

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

If in the column's correction factor states a value then the max. Field strength in the same row is corrected by a value gained from the "Duty-Cycle Correction Factor".

Summary table with radiated data of the test plots

Low Channel

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuv)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
H	112.104	15.41	12.36	PK	27.77	43.5	15.73	188
	240.801	17.73	13.57	PK	31.30	46.0	14.70	277
	2390.000	48.84	2.09	PK	50.93	54.0	3.07	103
	4809.515	50.60	4.42	PK	55.02	74.0	18.98	101
	4809.515	43.21	4.42	AV	47.63	54.0	6.37	101
	7214.462	51.28	7.64	PK	58.92	71.1	12.21	106

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuv)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
V	74.289	24.16	11.01	PK	35.17	40.0	4.83	245
	240.865	16.05	13.57	PK	29.62	46.0	16.38	265
	2390.000	49.96	2.09	PK	52.05	74.0	21.95	105
	2390.000	43.74	2.09	AV	45.83	54.0	8.17	105
	4809.433	50.50	4.42	PK	54.92	74.0	19.08	88
	4809.433	42.68	4.42	AV	47.10	54.0	6.90	88
	7215.998	51.55	7.64	PK	59.19	71.1	11.94	95

Registration number: W6M20606-7110-C-1
FCC ID: H5P-LS-B10W

Middle Channel

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuV)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
H	112.104	15.72	12.36	PK	28.08	43.5	15.42	172
	243.736	16.65	13.57	PK	30.22	46.0	15.78	279
	2390.000	40.02	2.09	PK	42.11	54.0	11.89	100
	2483.500	38.95	2.00	PK	40.95	54.0	13.05	101
	4879.833	51.47	4.70	PK	56.17	74.0	17.83	98
	4879.833	42.92	4.70	AV	47.62	54.0	6.38	98
	7319.993	52.64	6.38	PK	59.02	74.0	14.98	105
	7319.993	46.61	6.38	AV	52.99	54.0	1.01	105

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuV)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
V	73.948	23.98	11.00	PK	34.98	40.0	5.02	235
	240.168	14.85	13.57	PK	28.42	46.0	17.58	253
	2390.000	41.03	2.09	PK	43.12	54.0	10.88	103
	2483.500	41.56	2.00	PK	43.56	54.0	10.44	118
	4879.527	51.74	4.70	PK	56.44	74.0	17.56	84
	4879.527	43.42	4.70	AV	48.12	54.0	5.88	84
	7321.149	53.55	6.38	PK	59.93	74.0	14.07	92
	7321.149	46.71	6.38	AV	53.09	54.0	0.91	92

Registration number: W6M20606-7110-C-1
FCC ID: H5P-LS-B10W

High Channel

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuv)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
H	112.104	15.61	12.36	PK	27.97	43.5	15.53	174
	254.951	17.36	13.90	PK	31.26	46.0	14.74	269
	2483.500	55.30	2.00	PK	57.30	74.0	16.70	111
	2483.500	47.65	2.00	AV	49.65	54.0	4.35	111
	4959.504	51.09	4.96	PK	56.05	74.0	17.95	95
	4959.504	44.80	4.96	AV	49.76	54.0	4.24	95
	7438.712	52.74	6.25	PK	58.99	74.0	15.01	99
	7438.712	46.62	6.25	AV	52.87	54.0	1.13	99

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuv)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
V	73.267	24.22	11.00	PK	35.22	40.0	4.78	244
	246.493	15.42	13.57	PK	28.99	46.0	17.01	258
	2483.500	57.92	2.00	PK	59.92	74.0	14.08	103
	2483.500	50.66	2.00	AV	52.66	54.0	1.34	103
	4959.438	52.04	4.96	PK	57.00	74.0	17.00	92
	4959.438	45.15	4.96	AV	50.11	54.0	3.89	92
	7438.855	53.42	6.25	PK	59.67	74.0	14.33	89
	7438.855	46.76	6.25	AV	53.01	54.0	0.99	89

Freq. – Frequency Range:

- 1: 30 - 200 MHz
- 2: 200 - 1000 MHz
- 3: 1 - 4 GHz
- 4: 4 - 8 GHz
- 5: 8 - 12 GHz
- 6: 12 - 17 GHz
- 7: 17 - 26.5 GHz

All not in the table noted test results are more than 20 dB below the relevant limits.
All other not noted test polts do not contain significant test results in relation to the limits.

TEST RESULT (Transmitter): The unit DOES meet the FCC requirements.

Comment: see attached diagrams

Test equipment used: ETSTW-RE 003, ETSTW-RE 015, ETSTW-RE 016, ETSTW-RE 017, ETSTW-RE 024

Registration number: W6M20606-7110-C-1

FCC ID: H5P-LS-B10W

3.6 Minimum 6 dB Bandwidth

The analyzer ResBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK reading was taken, two markers were set 6 dB below the maximum level on the right and the left side of the emission.

The 6 dB bandwidth is the frequency difference between the two markers.

Test conditions		6 dB Bandwidth		
		Channel A	Channel B	Channel C
$T_{nom} = 23^{\circ}\text{C}$	$V_{nom} = 4.5 \text{ V}$	1.650641026 MHz	1.682692308 MHz	1.682692308MHz
Measurement uncertainty			< 10 Hz	

Limits:

Frequency Range MHz	Limits
902-928	min 500 kHz
2400-2483.5	min 500 kHz
5725-5850	min 500 kHz

Test equipment used: ETSTW-CE 003 , ETSTW-RE 003

Comment: see attached diagram

Registration number: W6M20606-7110-C-1

FCC ID: H5P-LS-B10W

3.7 Peak Power Spectral Density

Peak Power Spectral density is measured at low, middle and high channel.

The peak output power is measured with a measurement bandwidth of 10 MHz and displayed on diagram together with Peak Power Spectral Density result which was measured with a bandwidth of 3 kHz, appropriate frequency span and sweep time.

Test conditions		Peak Power Spectral Density (3 kHz)		
		Channel A [dBm]	Channel B [dBm]	Channel C [dBm]
$T_{nom} = 23^{\circ}\text{C}$	$V_{nom} = 4.5 \text{ V}$	-12.81	-12.65	-12.67
Measurement uncertainty		< 3 Hz		

Limits:

Frequency Range MHz	dBm
902-928	8
2400-2483,5	8
5725-5850	8

Test equipment used: ETSTW-CE 003 , ETSTW-RE 003

Comment: see attached diagram

Registration number: W6M20606-7110-C-1

FCC ID: H5P-LS-B10W

3.8 Radiated Emissions from Receiver Section of Transceiver

FCC Rule: 15.109

Summary table with radiated data of the test plots**RX****Low Channel**

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuv)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
H	112.104	16.36	12.36	PK	28.72	43.5	14.78	180
	232.185	22.29	12.98	PK	35.27	46.0	10.73	281
	575.452	15.55	21.60	PK	37.15	46.0	8.85	305
	1006.830	40.06	-9.20	PK	30.86	54.0	23.14	180

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuv)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
V	74.289	23.84	11.01	PK	34.85	40.0	5.15	260
	260.922	16.43	14.08	PK	30.51	46.0	15.49	254
	1006.365	39.41	-9.20	PK	30.21	54.0	23.79	177

Middle Channel

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuv)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
H	112.104	15.56	12.36	PK	27.92	43.5	15.58	175
	233.358	19.98	12.98	PK	32.96	46.0	13.04	275
	658.517	14.28	22.80	PK	37.08	46.0	8.92	310
	1006.726	40.46	-9.20	PK	31.26	54.0	22.74	185

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuv)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
V	73.607	24.13	11.00	PK	35.13	40.0	4.87	280
	660.122	13.33	22.80	PK	36.13	46.0	9.87	299
	1005.929	38.92	-9.20	PK	29.72	54.0	24.28	185
	1372.792	39.32	-8.60	PK	30.72	54.0	23.28	192

Registration number: W6M20606-7110-C-1
FCC ID: H5P-LS-B10W

High Channel

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuv)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
H	112.104	16.34	12.36	PK	28.70	43.5	14.80	176
	235.751	19.70	12.98	PK	32.68	46.0	13.32	269
	663.365	14.30	22.80	PK	37.10	46.0	8.90	302
	1006.421	42.89	-9.20	PK	33.69	54.0	20.31	189
	4256.130	38.14	3.00	PK	41.14	54.0	12.86	241

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuv)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
V	73.607	23.80	11.00	PK	34.80	40.0	5.20	240
	700.204	13.06	23.43	PK	36.49	46.0	9.51	296
	1005.835	39.89	-9.20	PK	30.69	54.0	23.31	176
	1180.643	38.80	-7.78	PK	31.02	54.0	22.98	188

Digital

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuv)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)	Antenna Height (cm)
H	112.104	15.56	12.36	PK	27.92	43.5	15.58	175	112.104
	233.358	19.98	12.98	PK	32.96	46.0	13.04	275	233.358
	658.517	14.28	22.80	PK	37.08	46.0	8.92	310	658.517

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuv)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)	Antenna Height (cm)
V	73.607	24.13	11.00	PK	35.13	40.0	4.87	280	73.607
	660.122	13.33	22.80	PK	36.13	46.0	9.87	299	660.122

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Field Strength (dBmicrovolts/meter)
30 – 88	100	40.0
88 – 216	150	43.5
216 – 960	200	46.0
Above 960	500	54.0

Test equipment used: ETSTW-RE 015, ETSTW-RE 016, ETSTW-RE 017, ETSTW-CS 001, ETSTW-RE 026, ETSTW-RE 003, ETSTW-RE 025

Comment: see attached diagram

Registration number: W6M20606-7110-C-1
FCC ID: H5P-LS-B10W

3.9 Power Line Conducted Emission

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.

Frequency	Level (dB μ V)	
	quasi-peak	average
150 kHz	lower limit line	Lower limit line

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: not required

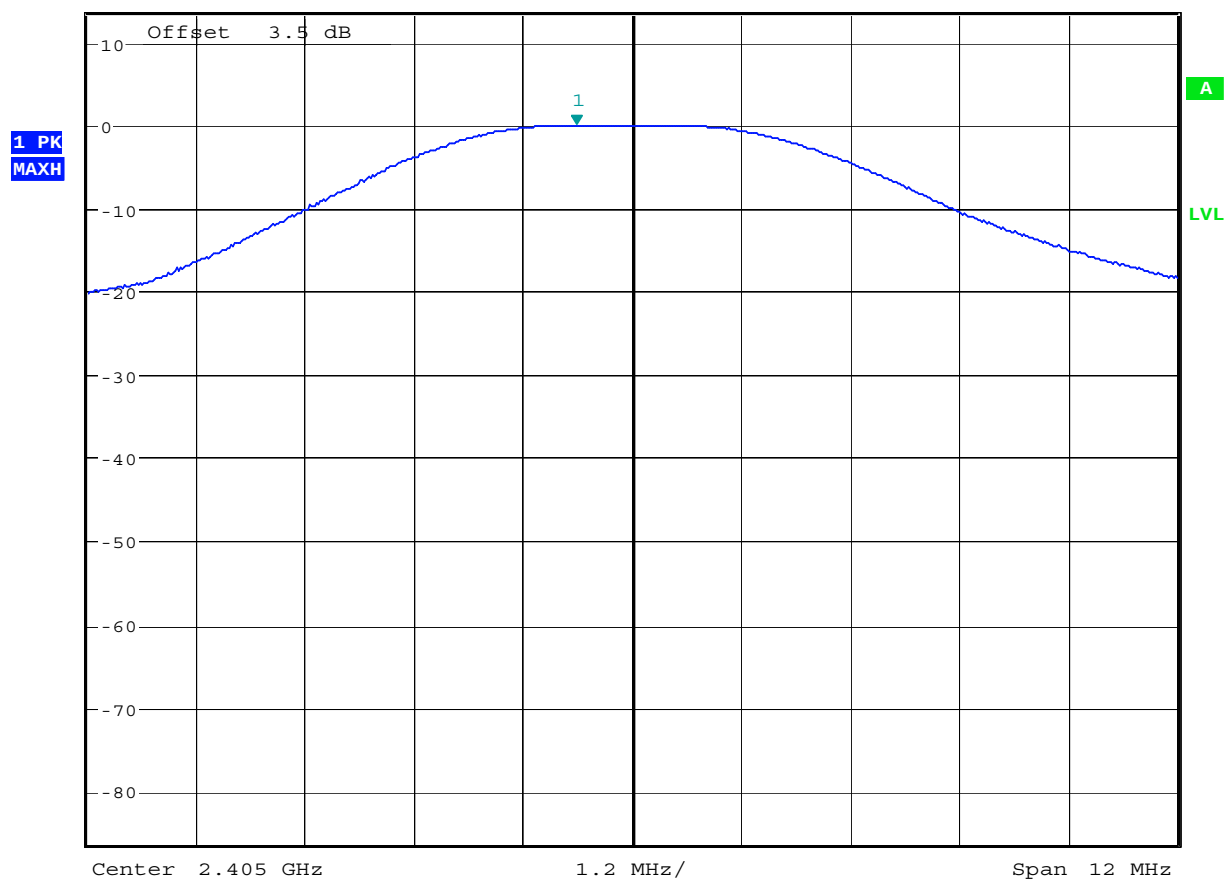
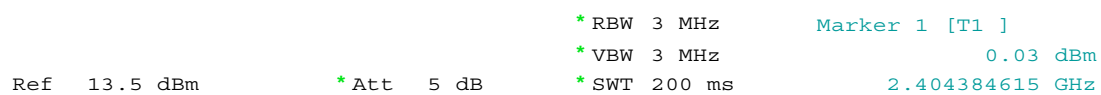
Appendix

- A Peak Output Power
- B Spurious Emissions radiated
- C Band Edge Measurement
- D Minimum 6dB Bandwidth
- E Peak Power Spectral Density
- F Radiated Emissions from Receiver Section of Transceiver
- G Pictures

Appendix A

Peak Output Power

The measurement diagrams plots attached below are preliminary wideband scan with a peak detector for reference only.



Date: 28.JUN.2006 16:28:33

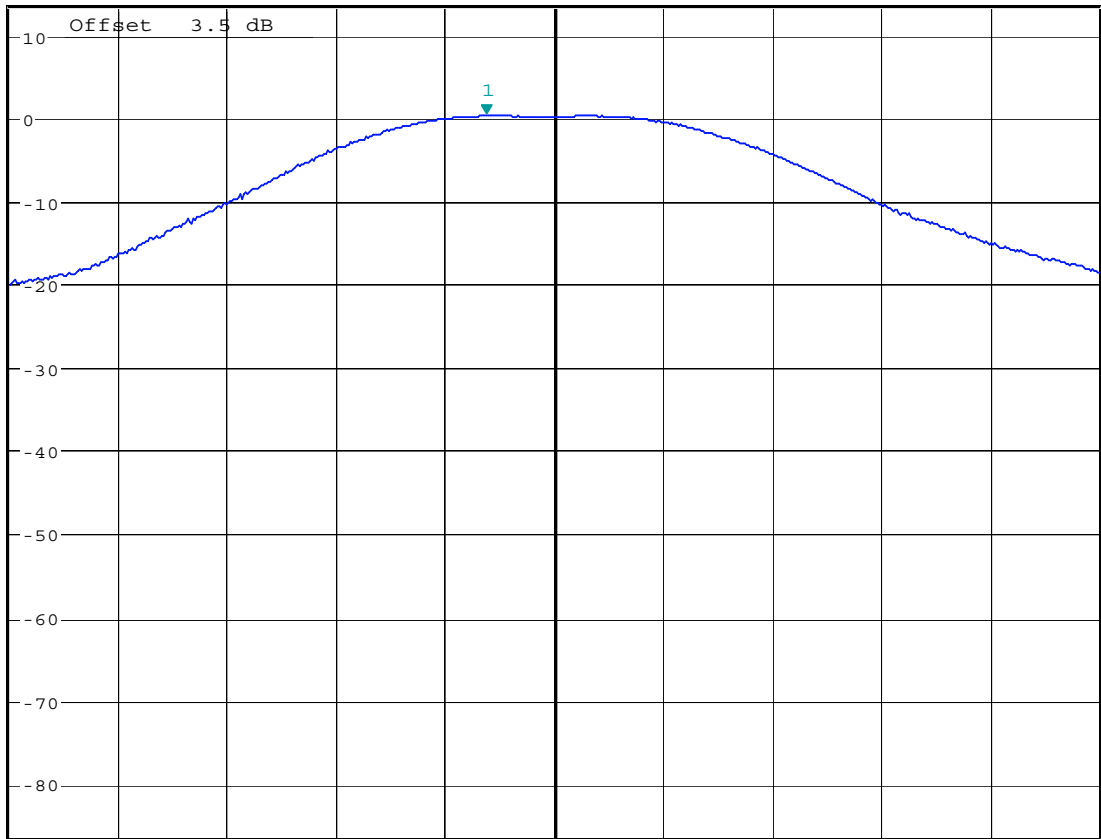


* RBW 3 MHz
* VBW 3 MHz
* SWT 200 ms
Marker 1 [T1]
0.30 dBm
2.439250000 GHz

Ref 13.5 dBm

* Att 5 dB

1 PK
MAXH



Center 2.44 GHz

1.2 MHz/

Span 12 MHz

Output power 2440 MHz

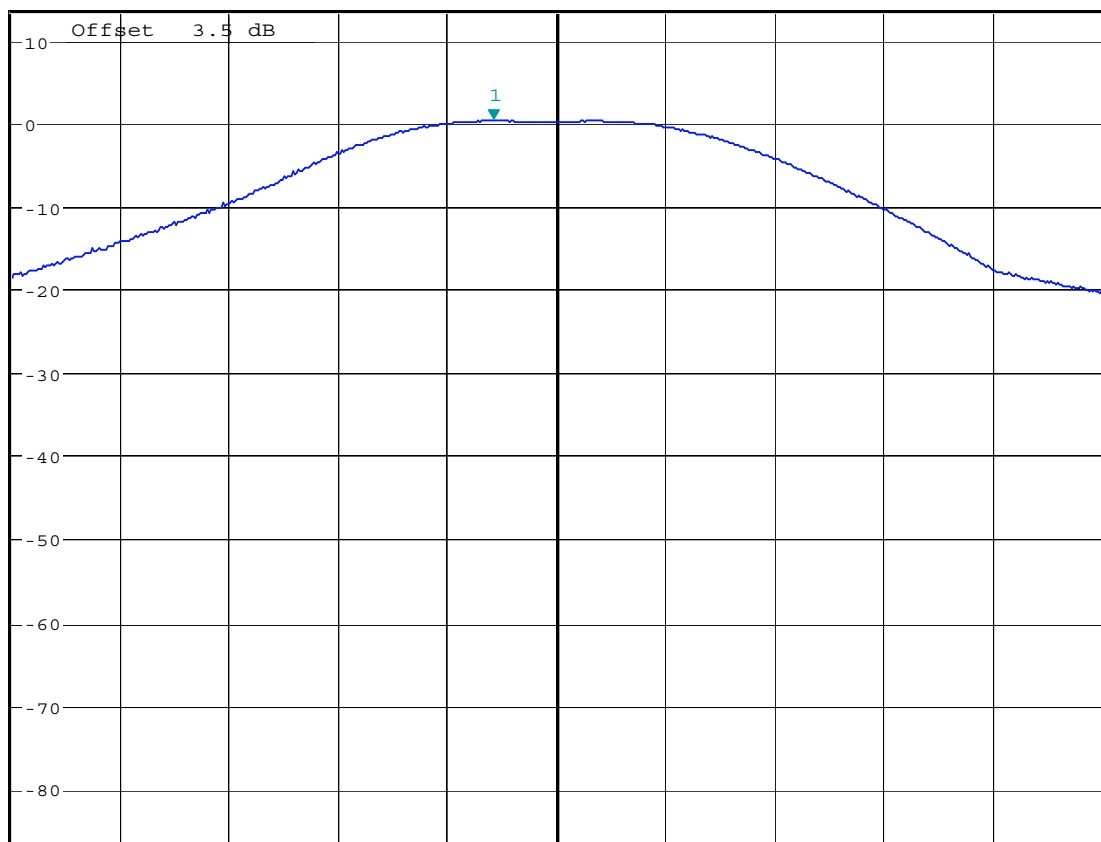
Date: 28.JUN.2006 16:33:20



Ref 13.5 dBm * Att 5 dB * RBW 3 MHz * VBW 3 MHz * SWT 200 ms

Marker 1 [T1] 0.30 dBm 2.479307692 GHz

1 PK
MAXH



Center 2.48 GHz 1.2 MHz/ Span 12 MHz

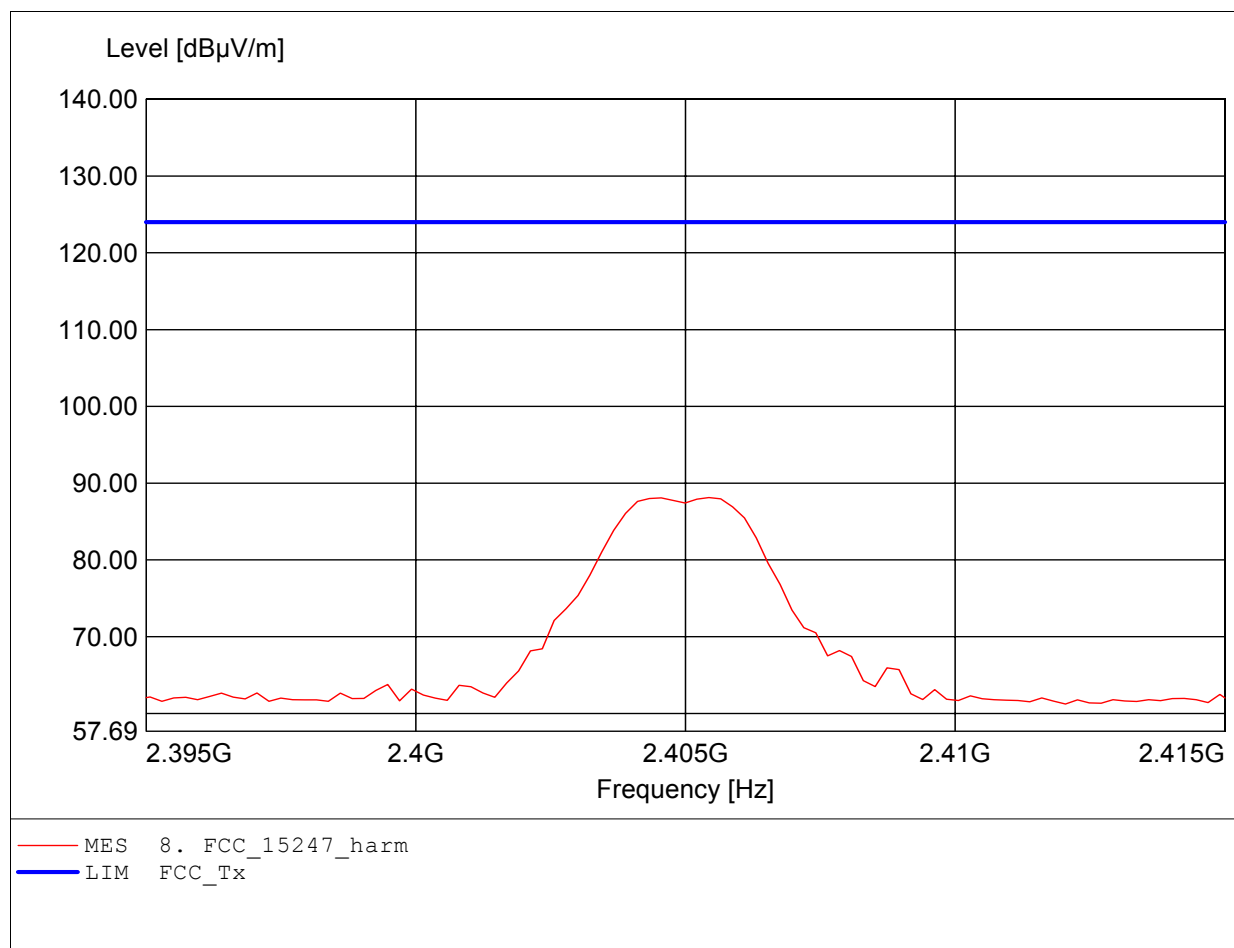
Output power 2480 MHz

Date: 28.JUN.2006 16:35:25

Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C / LP0002

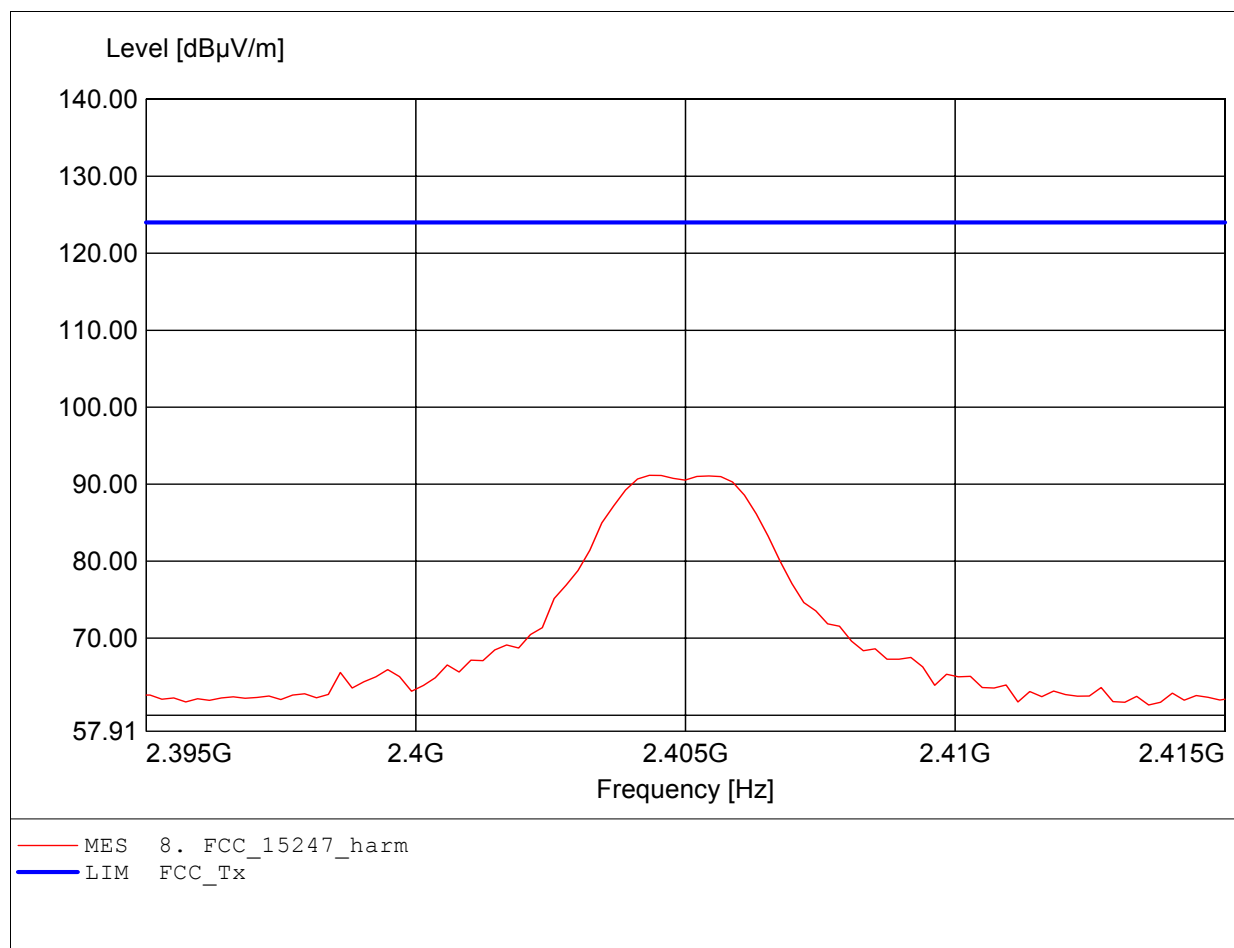
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 2.405GHz, Emax: 88.12dBµV/m, RBW: 1MHz



Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C / LP0002

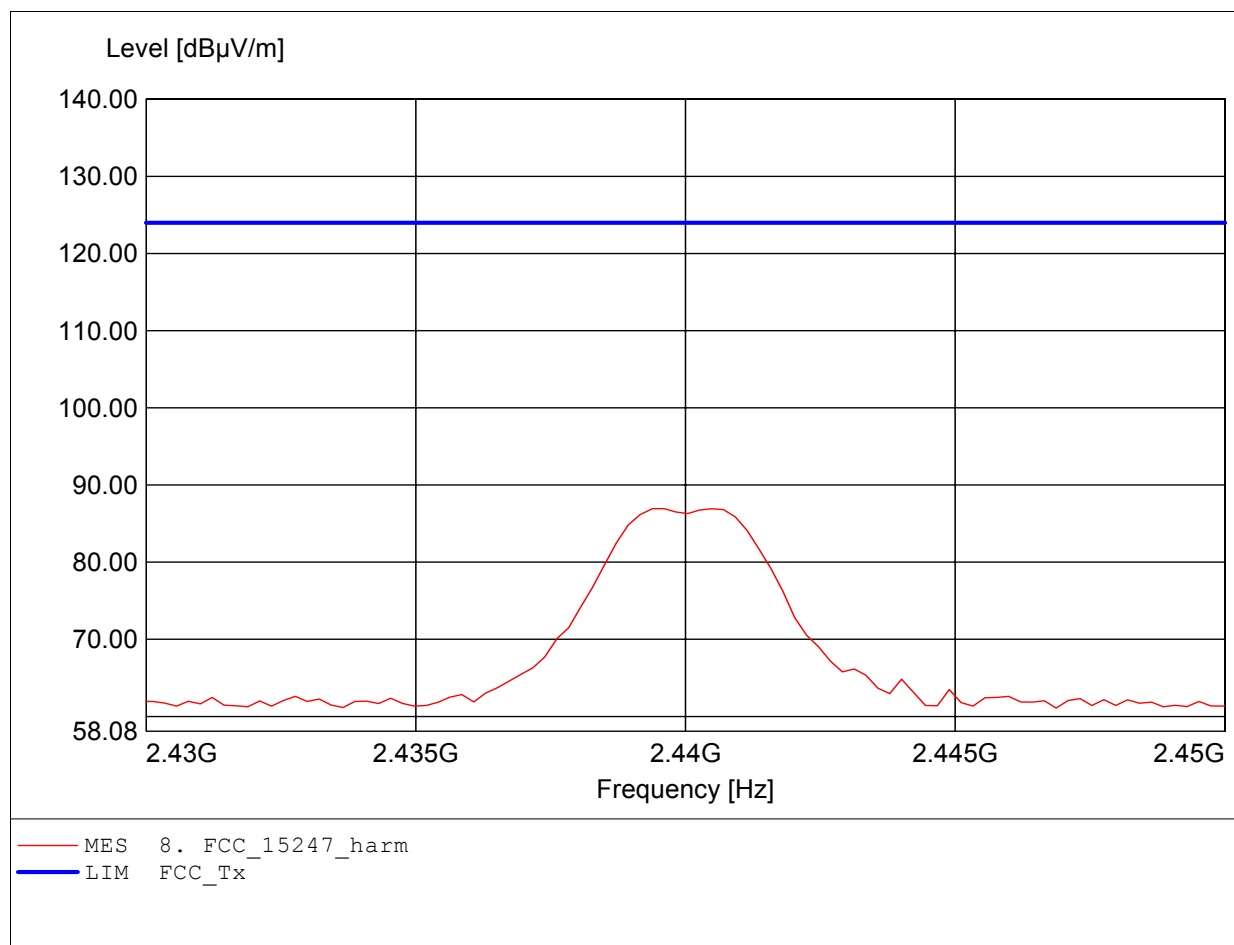
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 2.404GHz, Emax: 91.13dBµV/m, RBW: 1MHz



Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C / LP0002

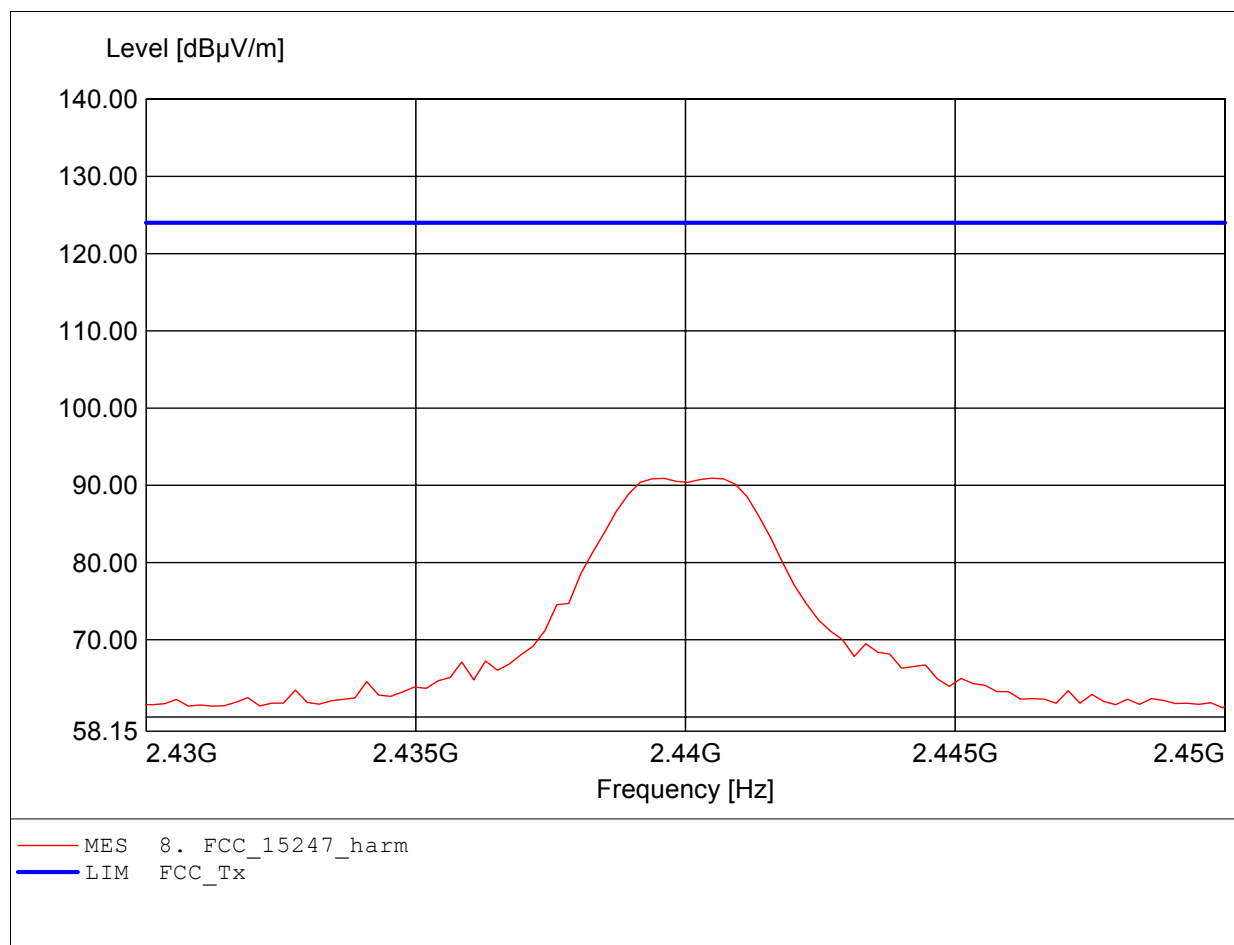
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 2.440GHz, Emax: 86.94dBµV/m, RBW: 1MHz



Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C / LP0002

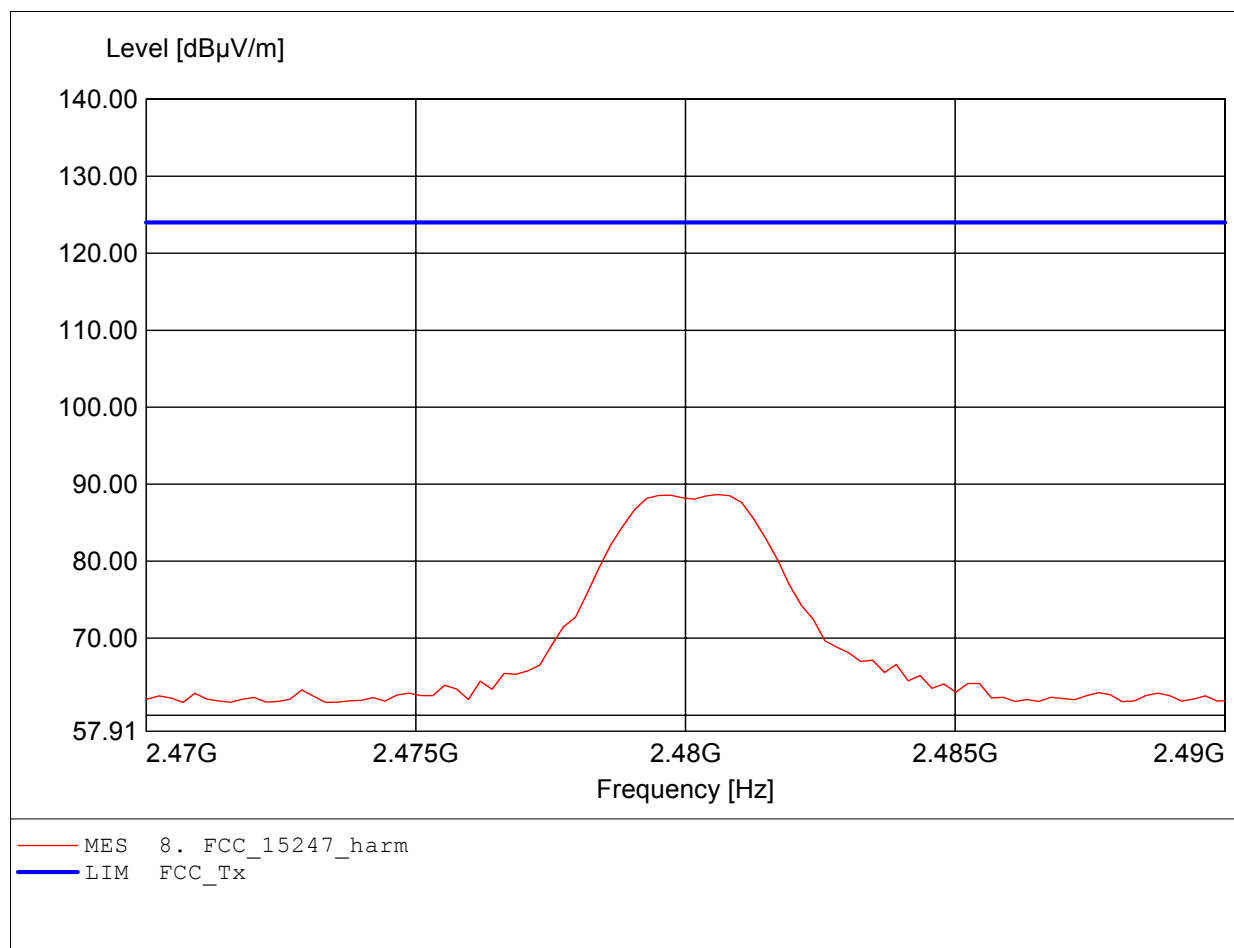
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 2.440GHz, Emax: 90.92dBµV/m, RBW: 1MHz



Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C / LP0002

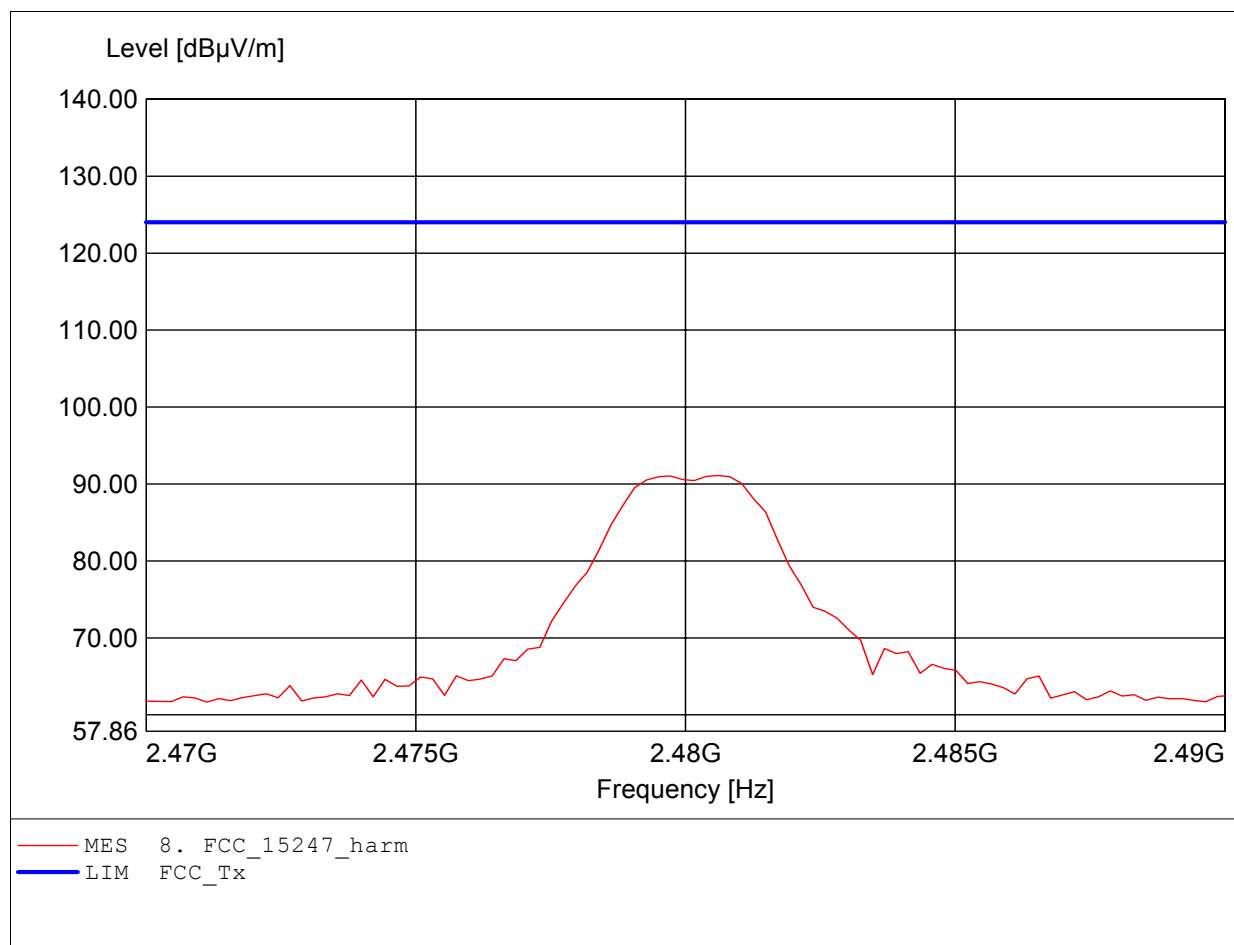
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 2.481GHz, Emax: 88.65dBµV/m, RBW: 1MHz



Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C / LP0002

Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 2.481GHz, Emax: 91.09dBµV/m, RBW: 1MHz



Appendix B

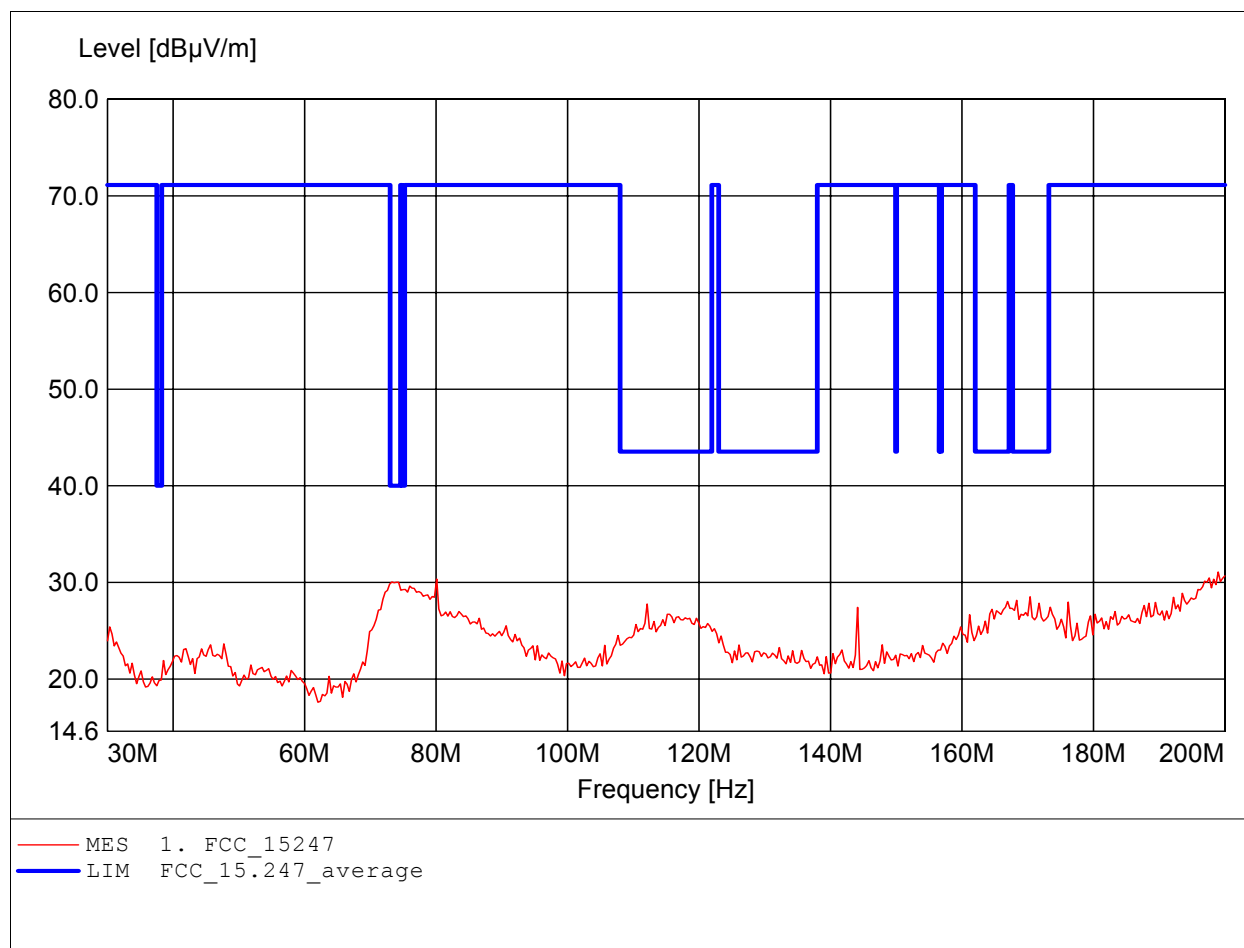
Spurious Emissions radiated

The measurement diagrams plots attached below are preliminary wideband scan with a peak detector for reference only.

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

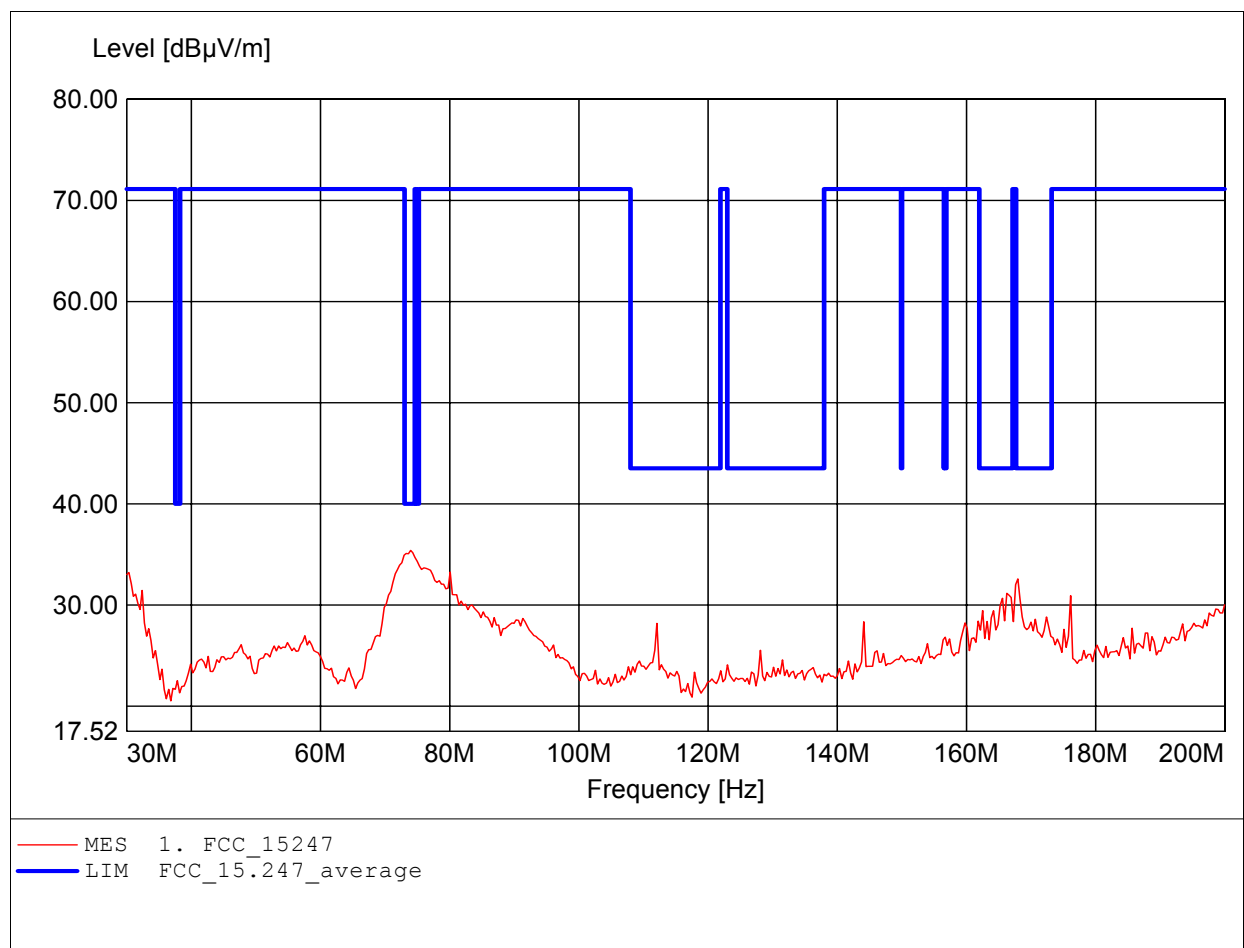
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 198.978MHz, Emax: 31.08dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

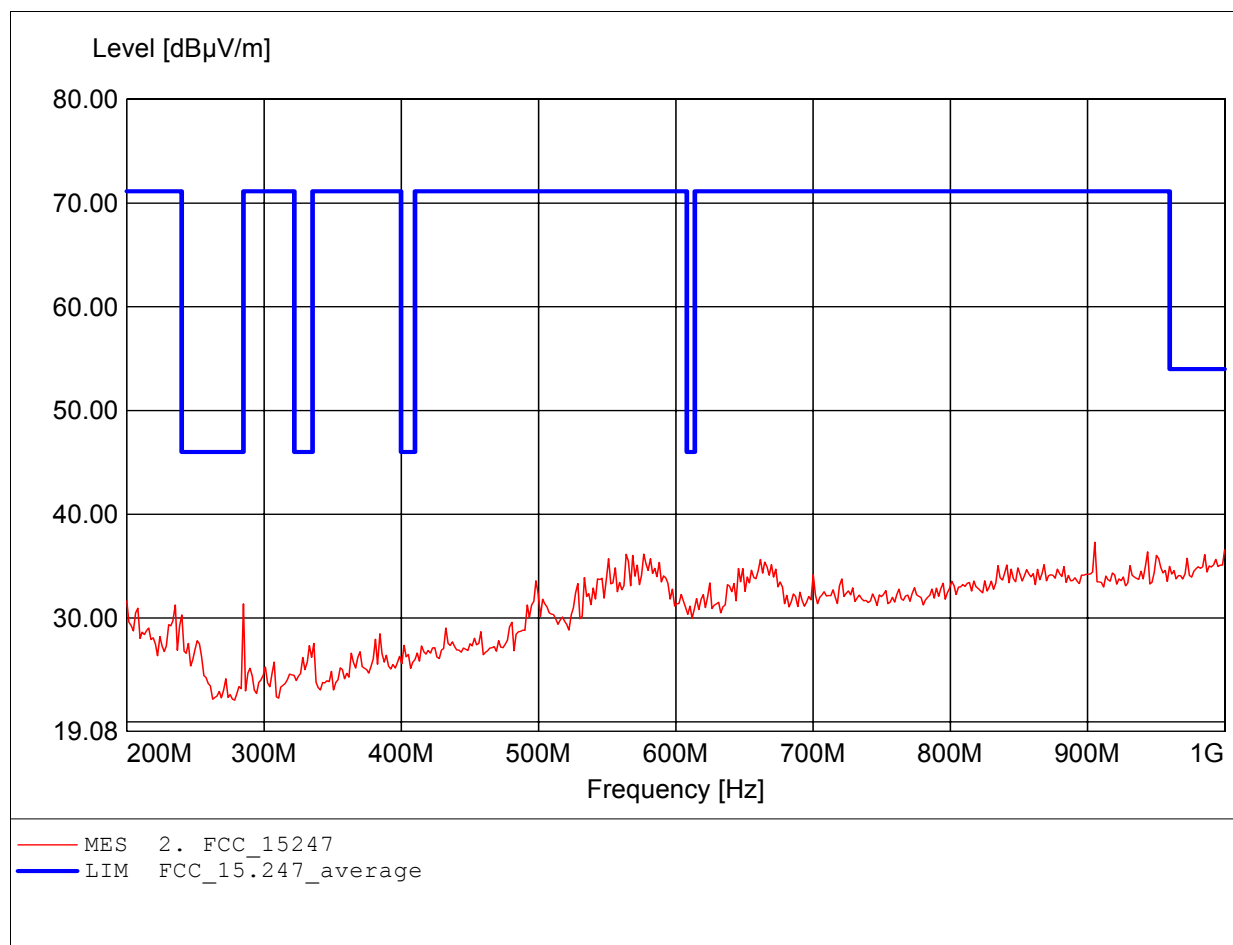
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 73.948MHz, Emax: 35.40dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

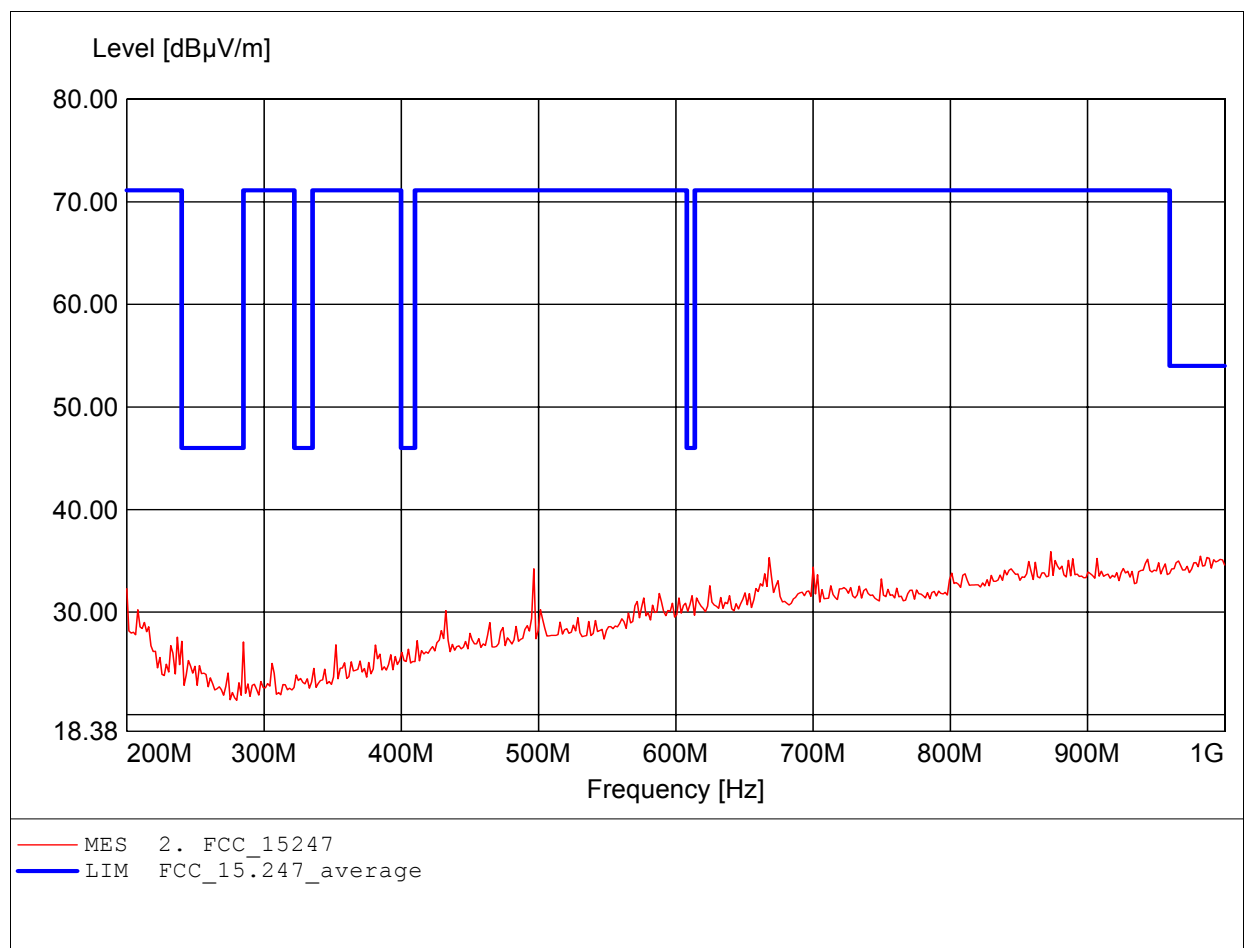
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223,
Freq: 905.411MHz, Emax: 37.30dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

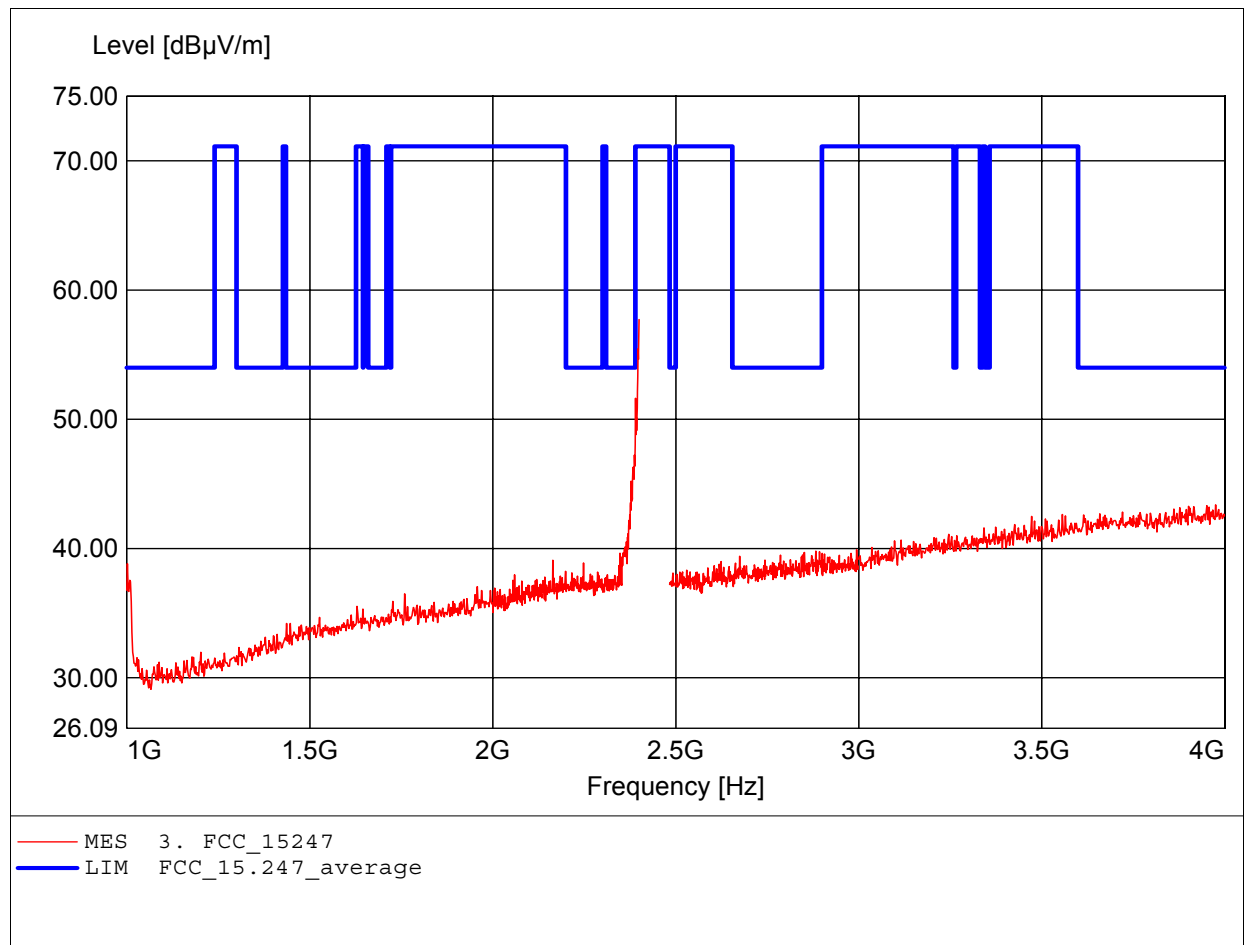
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223,
Freq: 873.347MHz, Emax: 35.88dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

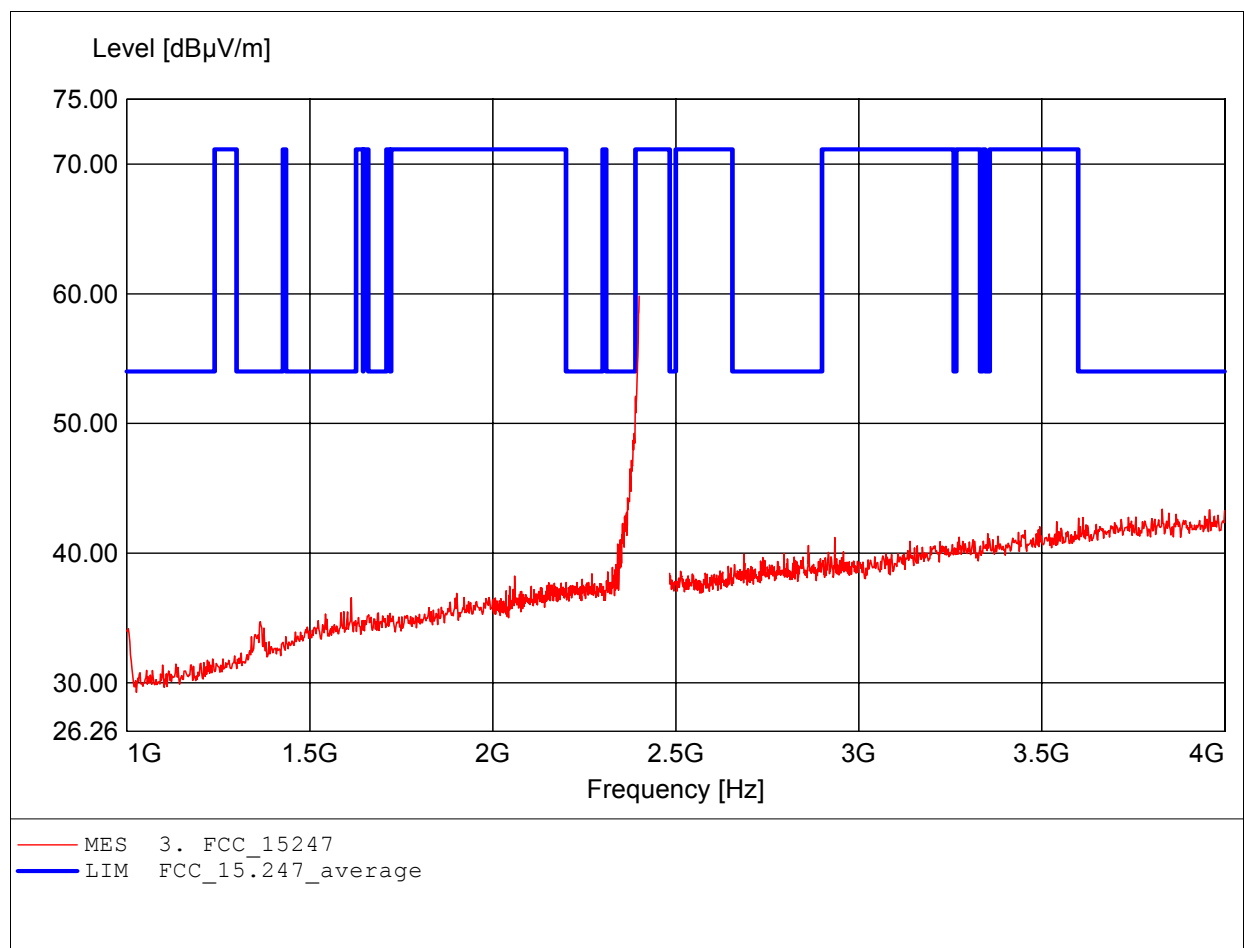
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 2.400GHz, Emax: 57.73dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

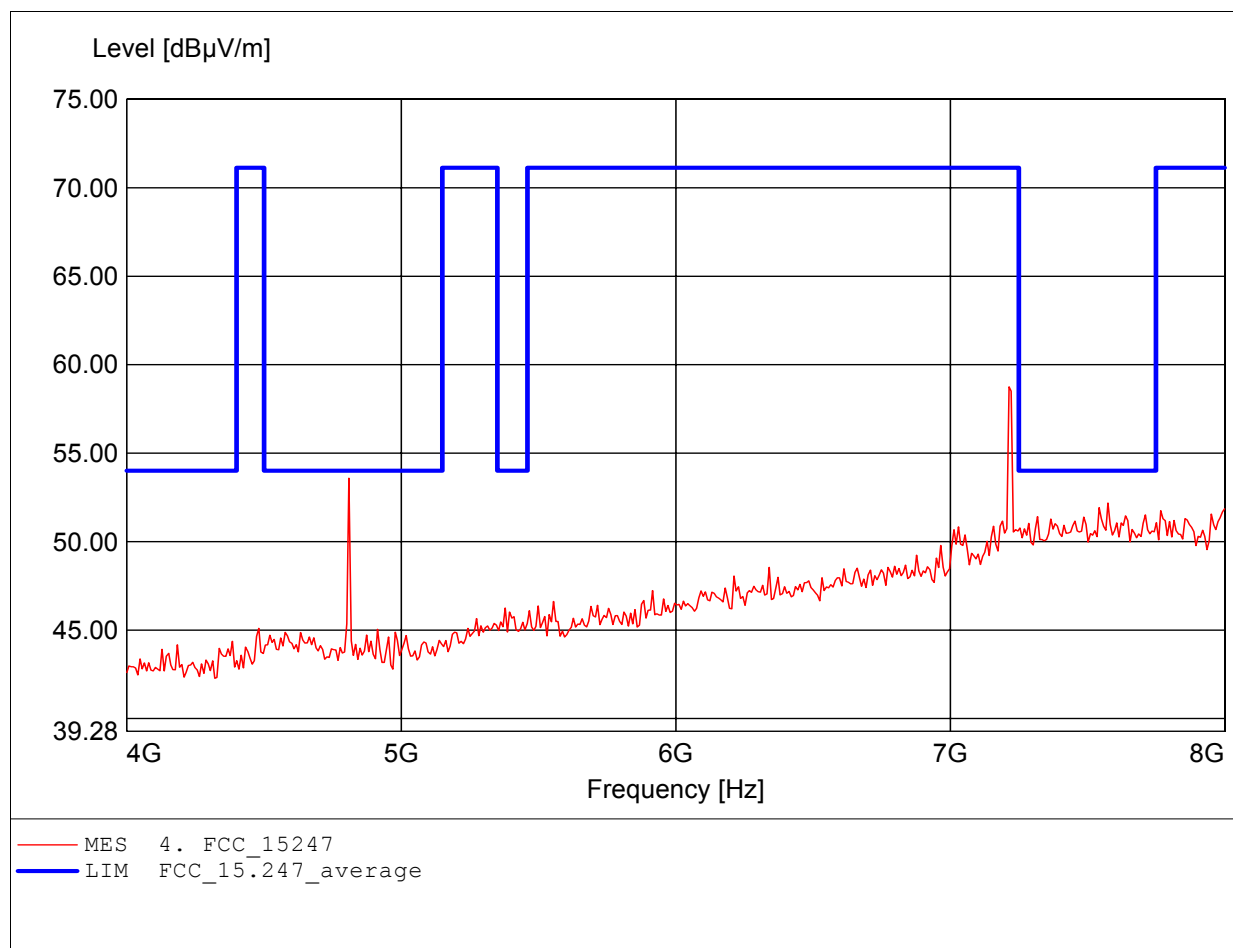
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 2.400GHz, Emax: 59.82dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

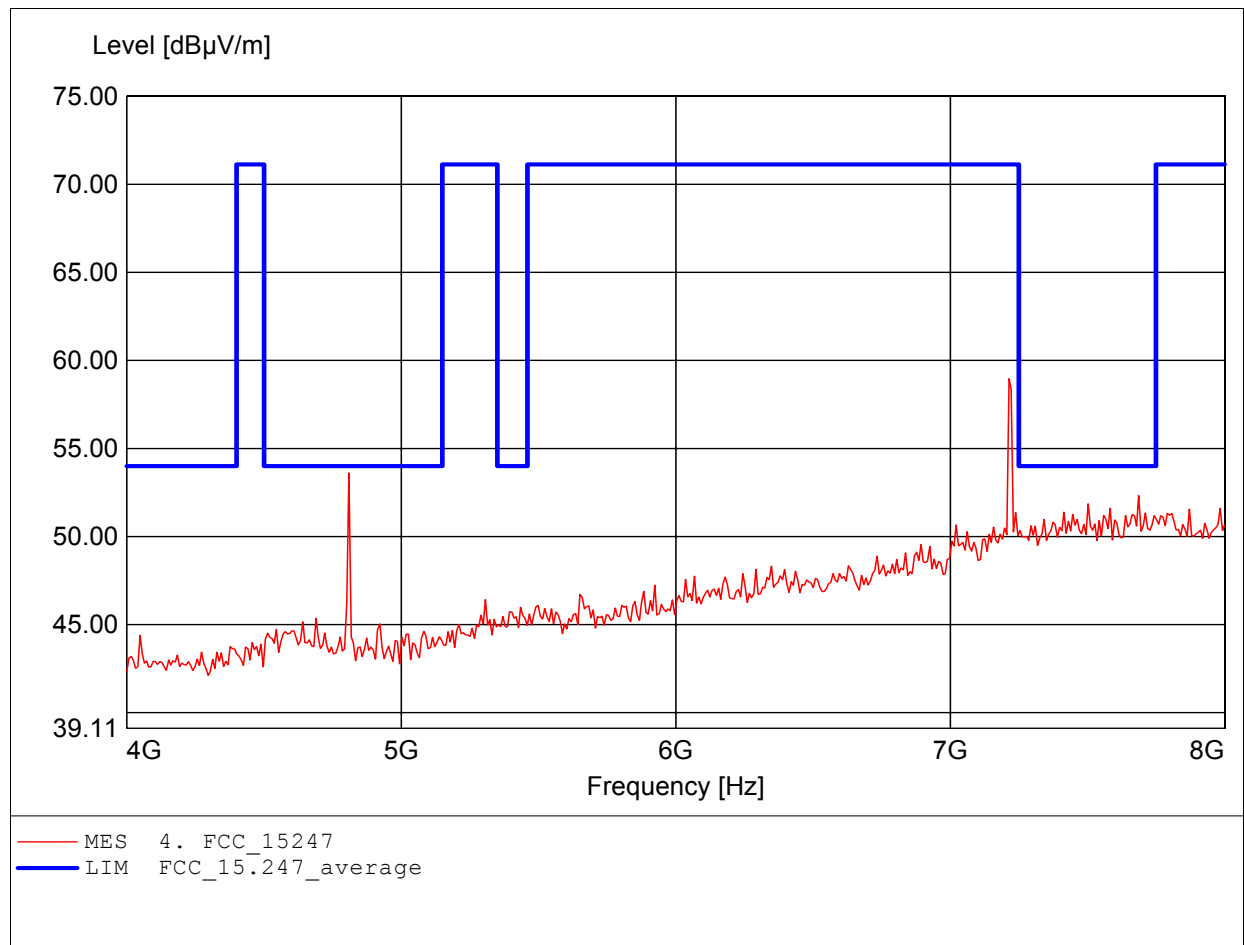
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.214GHz, Emax: 58.75dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

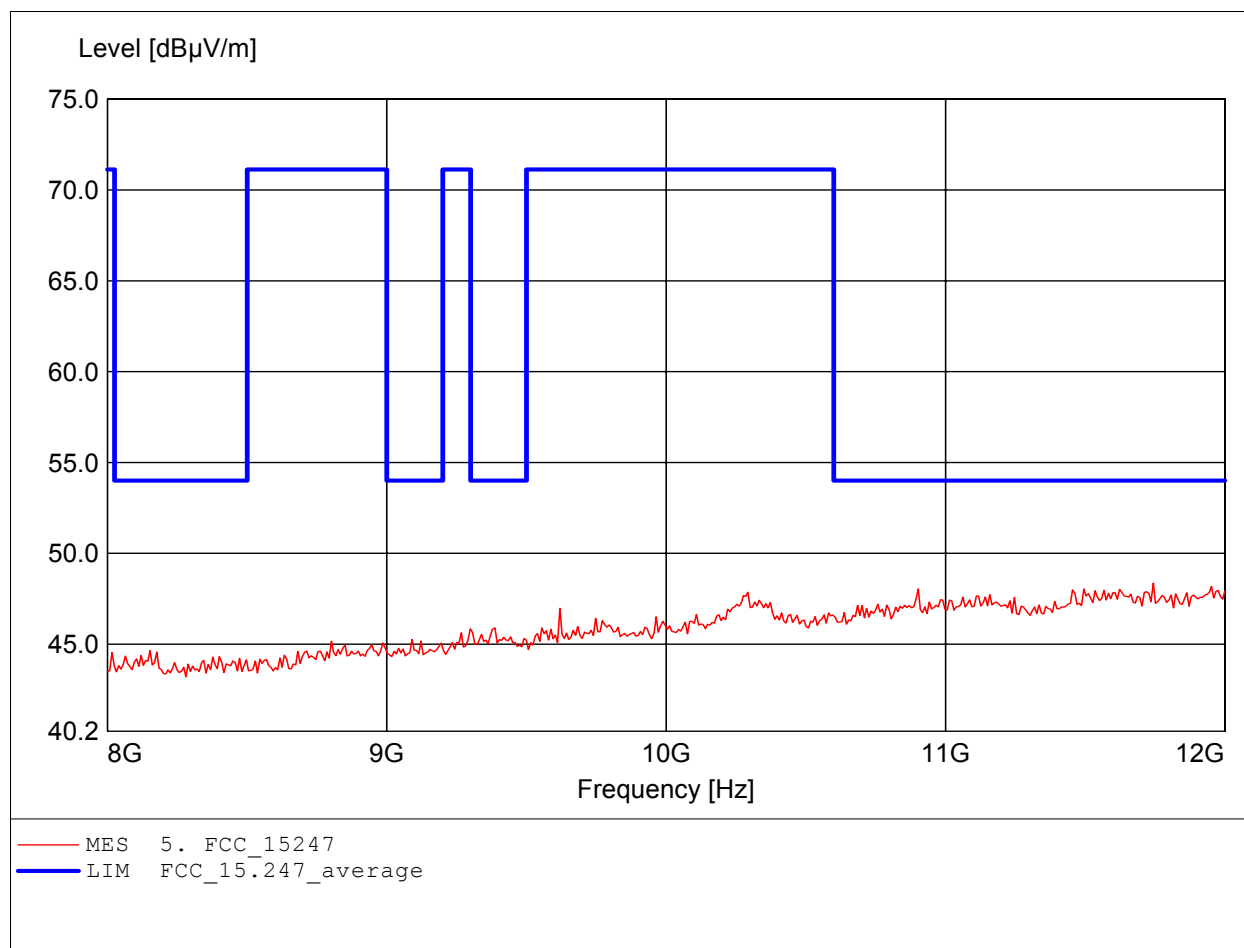
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.214GHz, Emax: 58.96dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

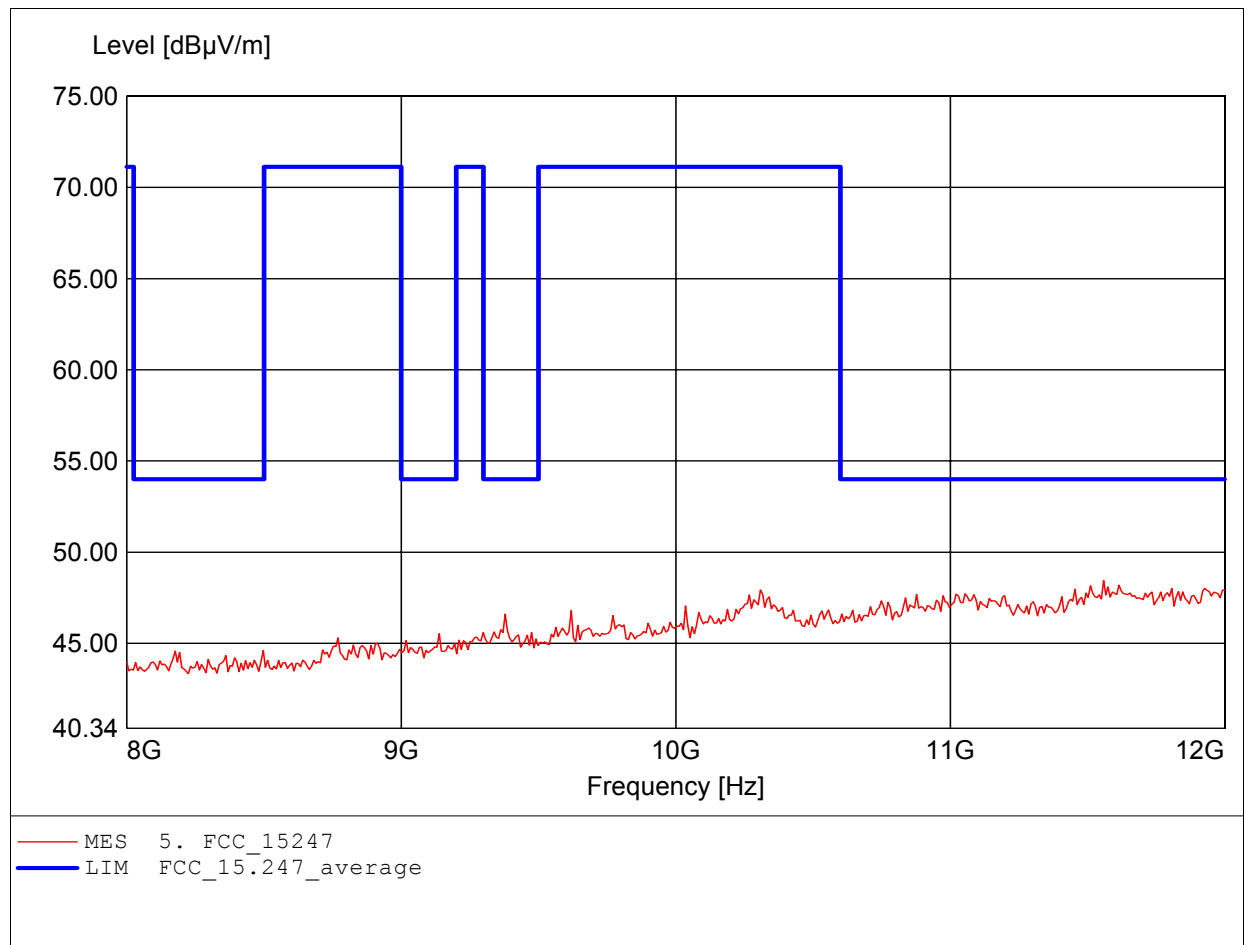
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.743GHz, Emax: 48.36dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

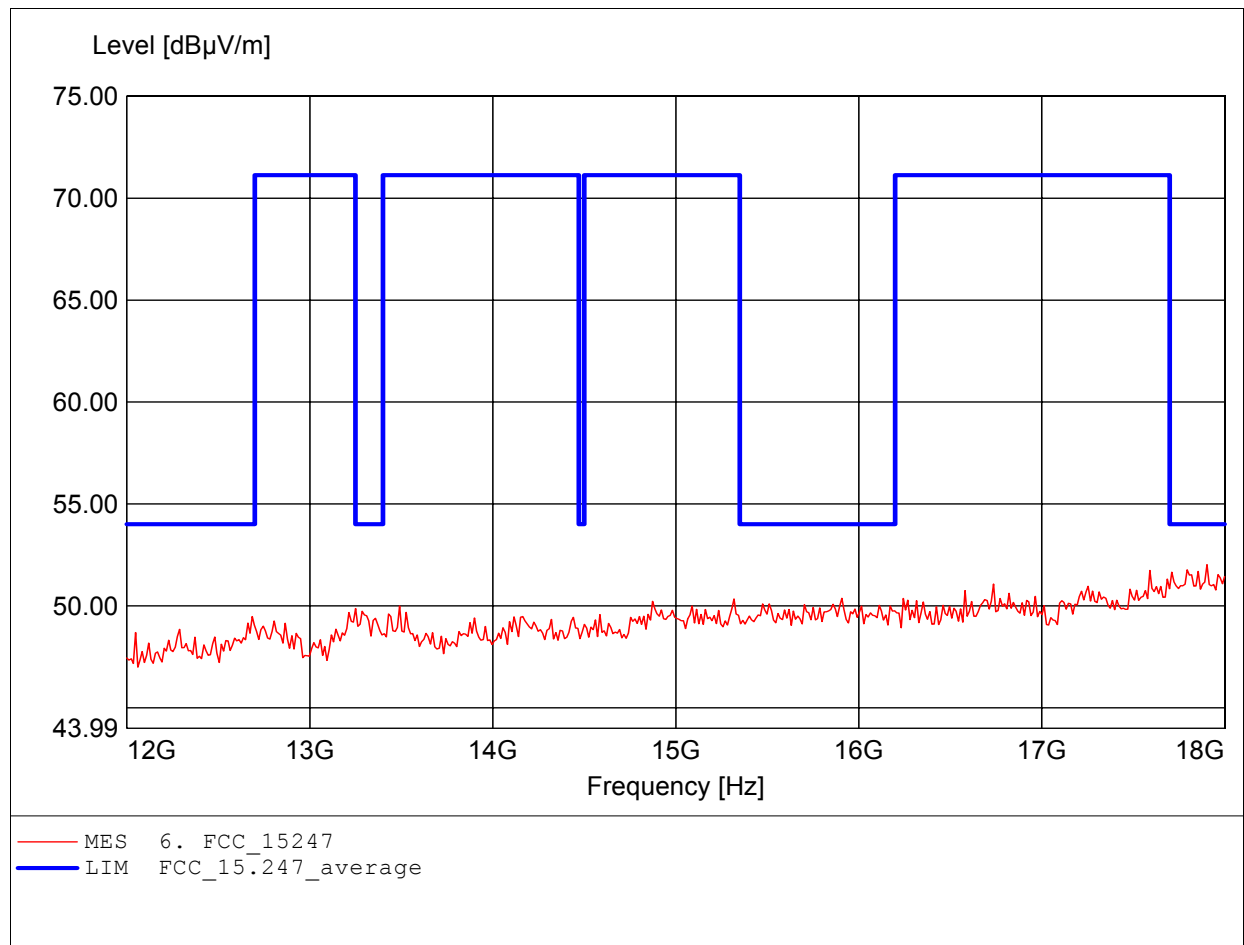
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.559GHz, Emax: 48.45dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

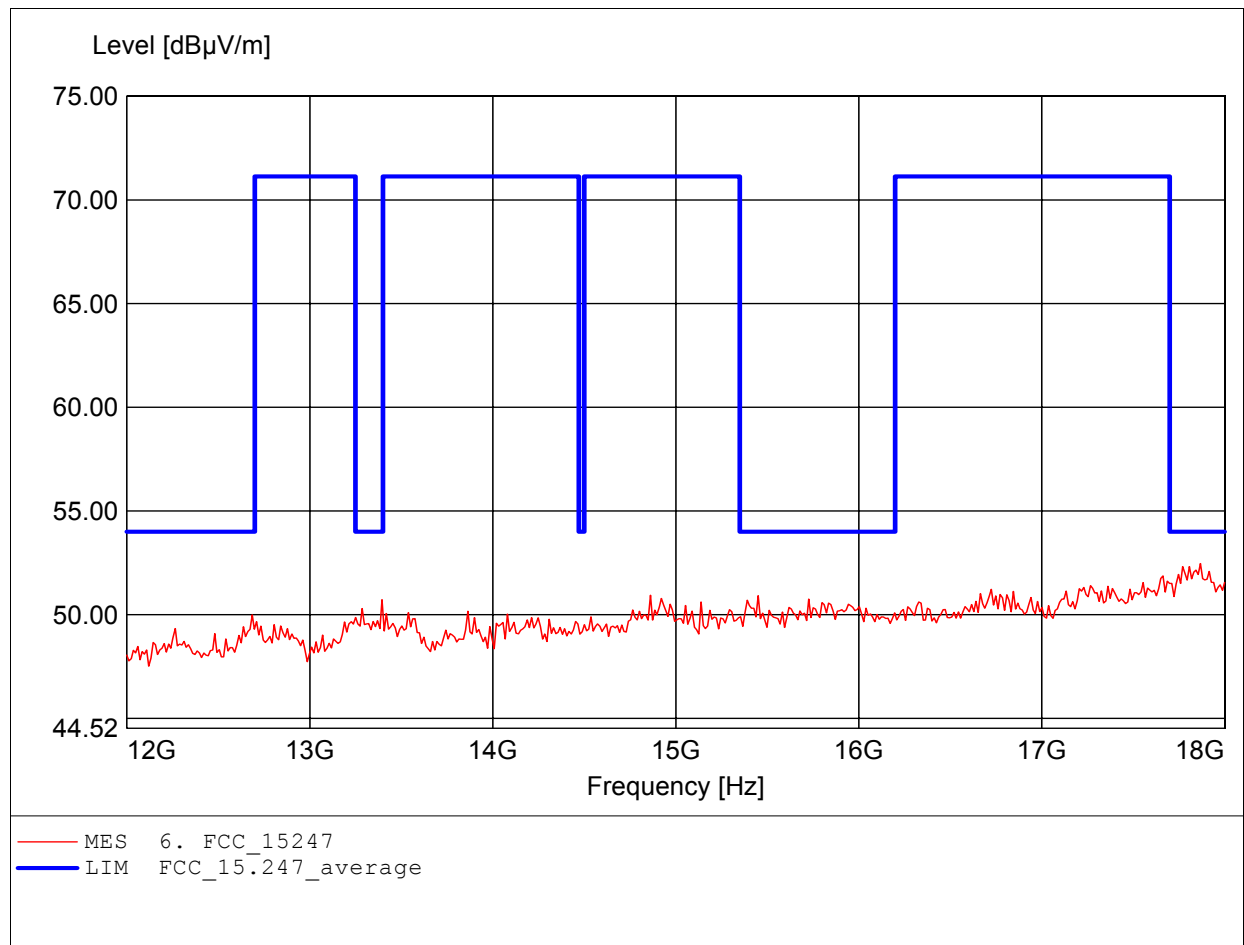
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 17.904GHz, Emax: 52.02dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

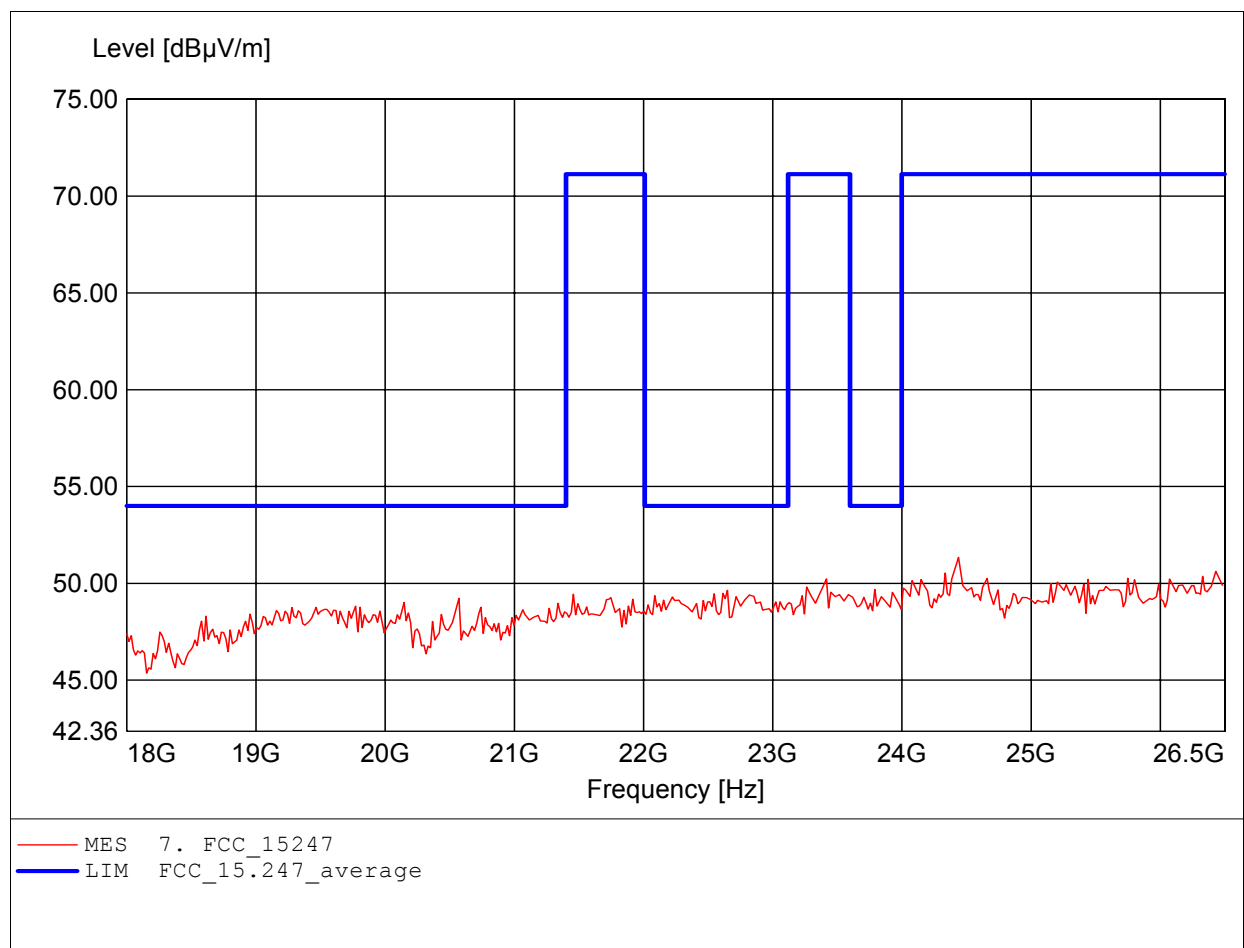
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 17.868GHz, Emax: 52.46dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

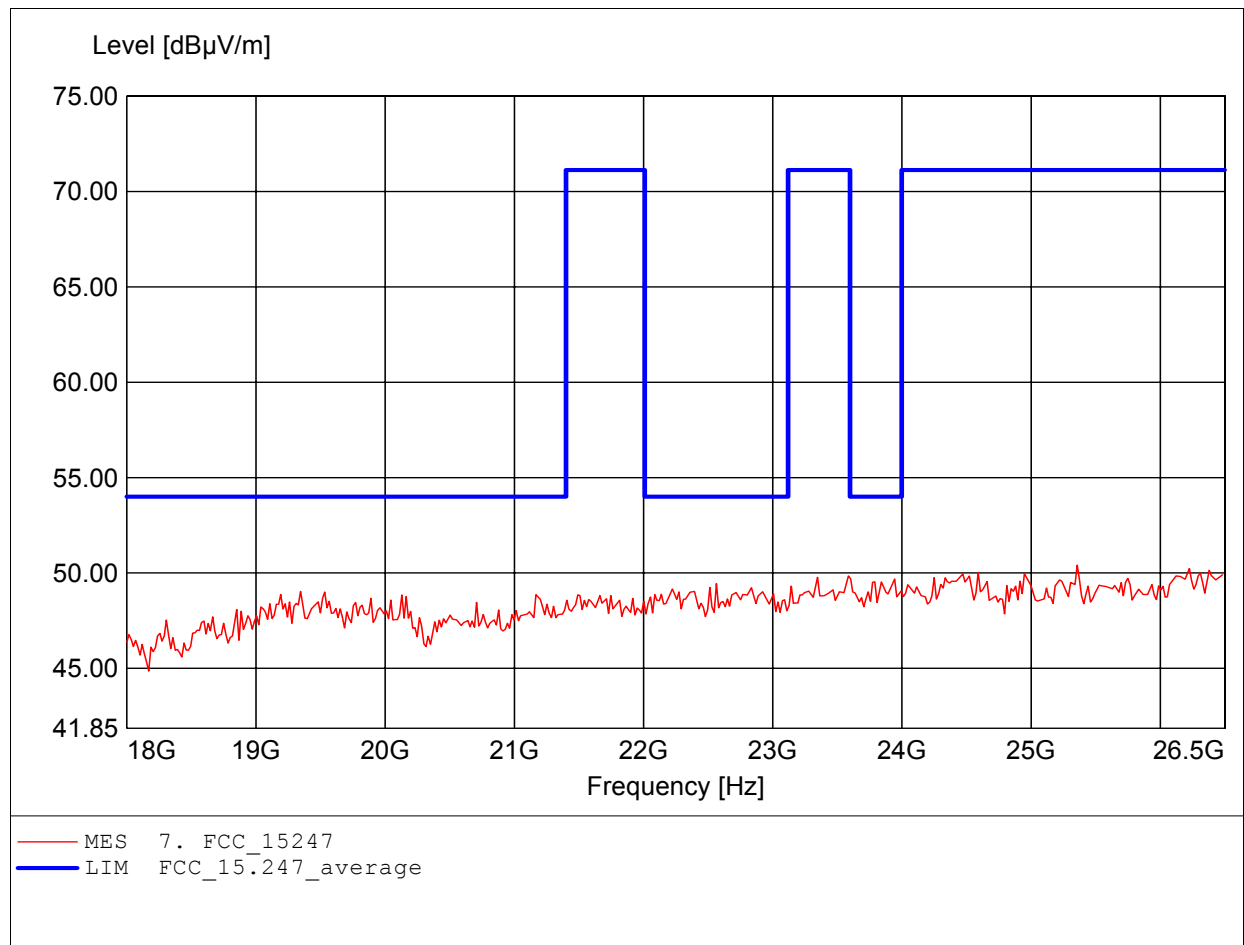
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 24.439GHz, Emax: 51.34dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

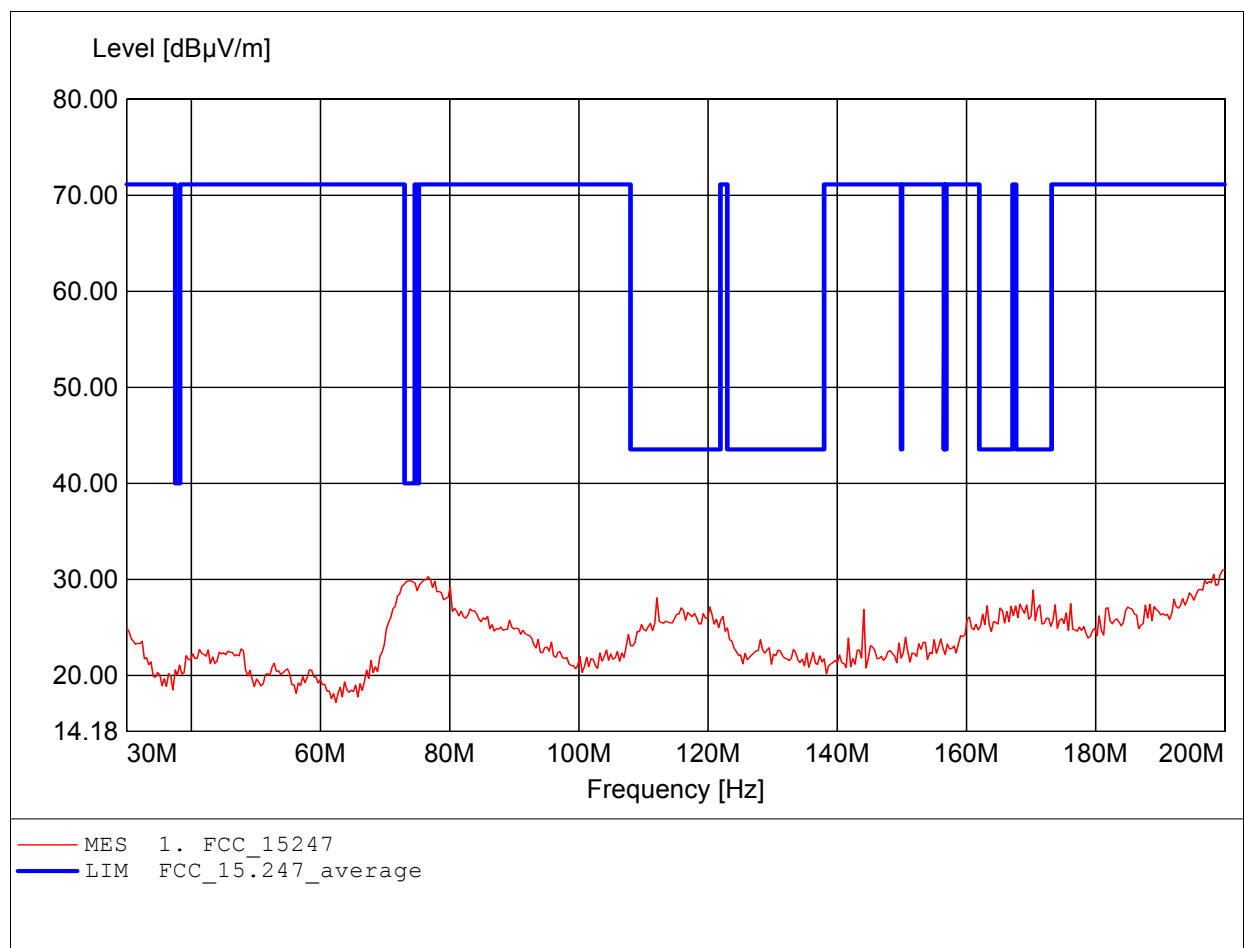
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 25.359GHz, Emax: 50.40dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

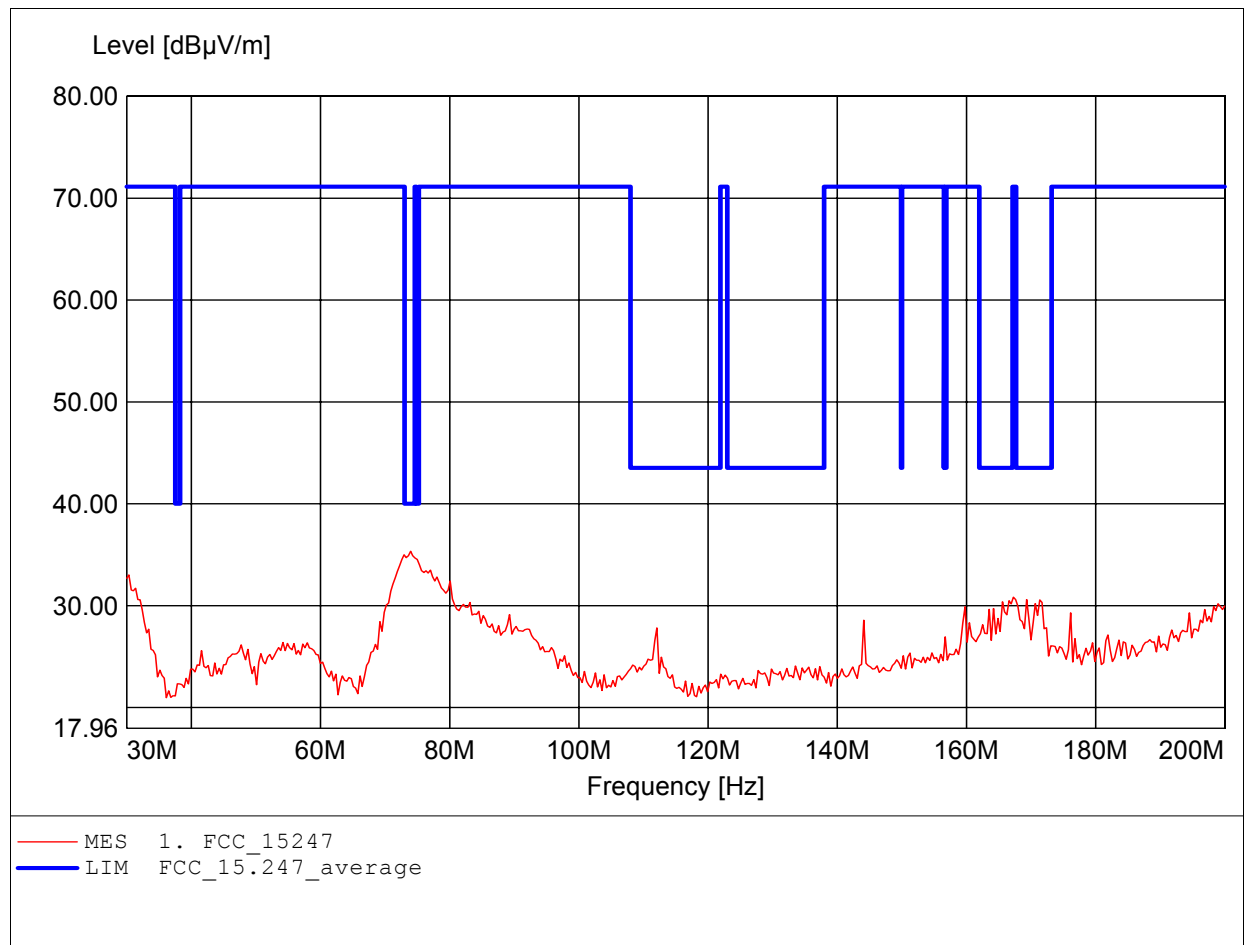
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 200.000MHz, Emax: 30.98dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

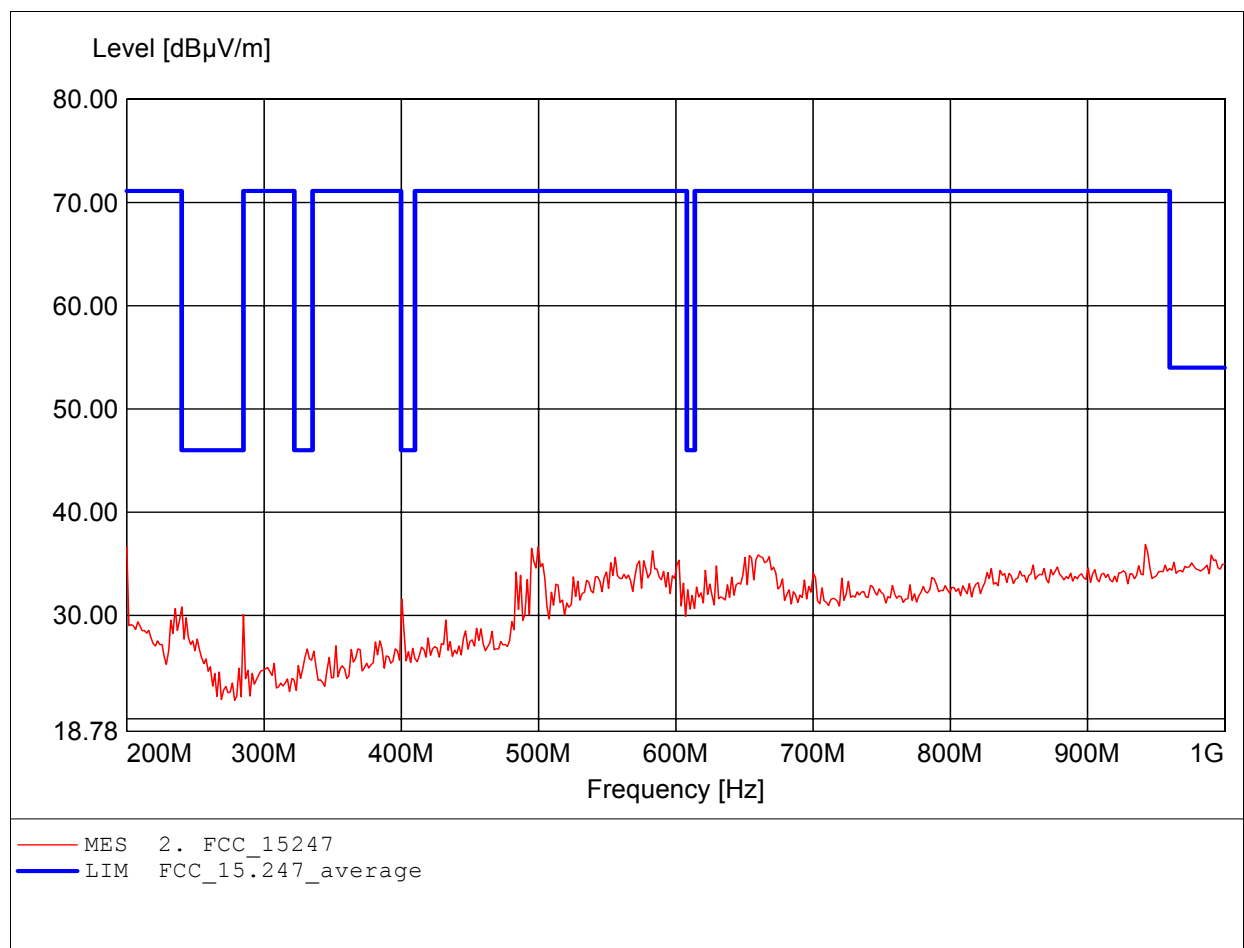
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 73.948MHz, Emax: 35.33dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

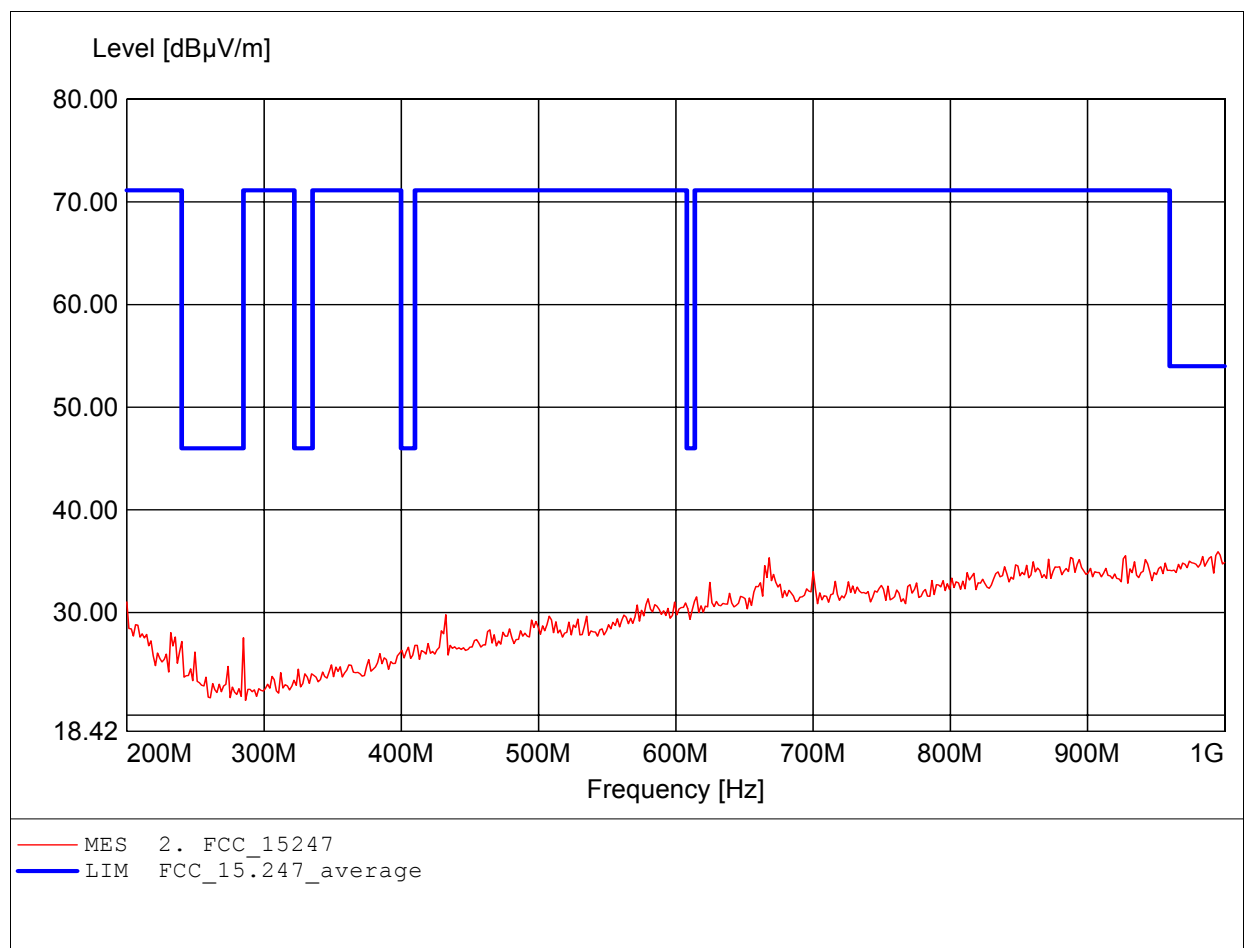
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223,
Freq: 942.285MHz, Emax: 36.87dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

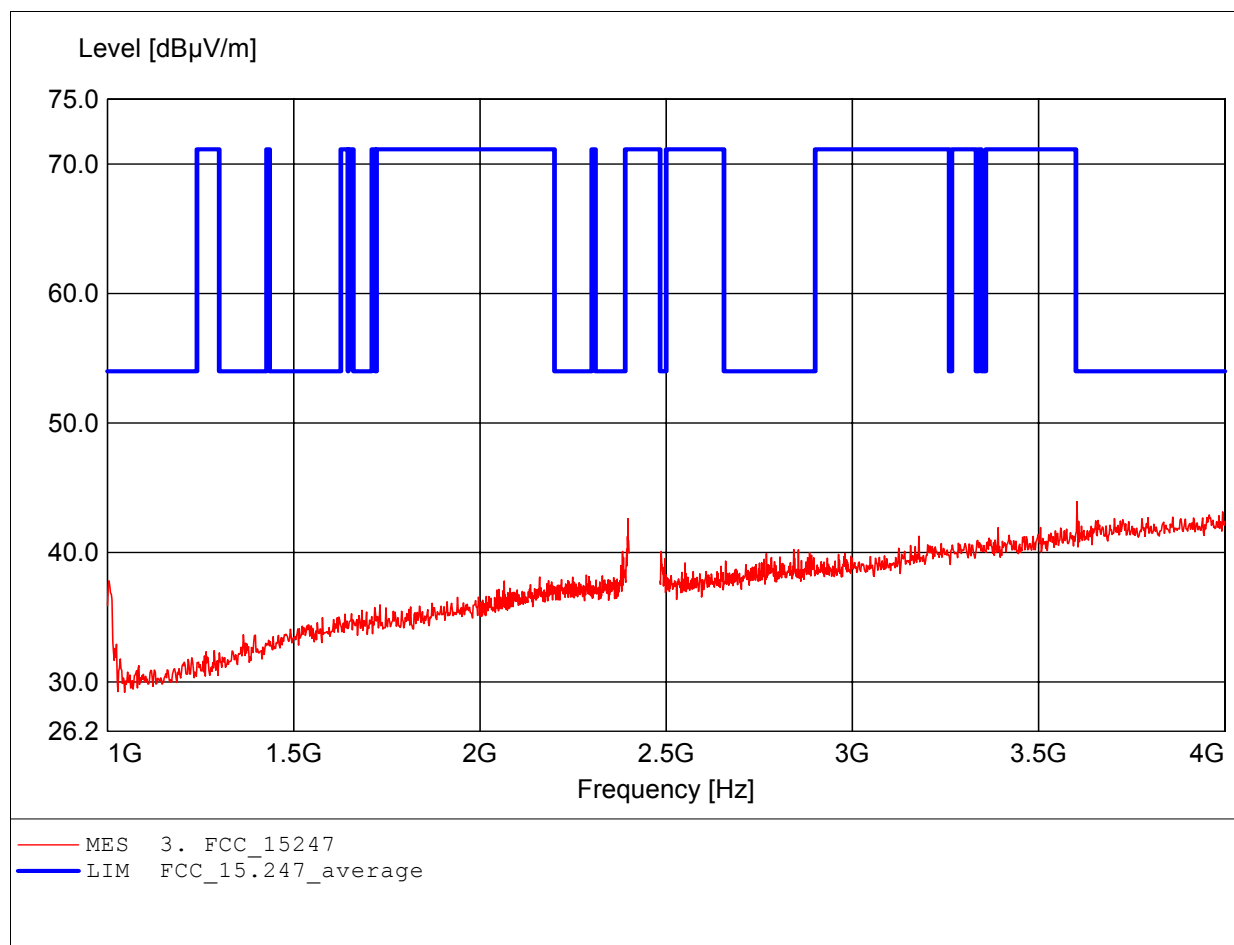
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223,
Freq: 995.190MHz, Emax: 35.92dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

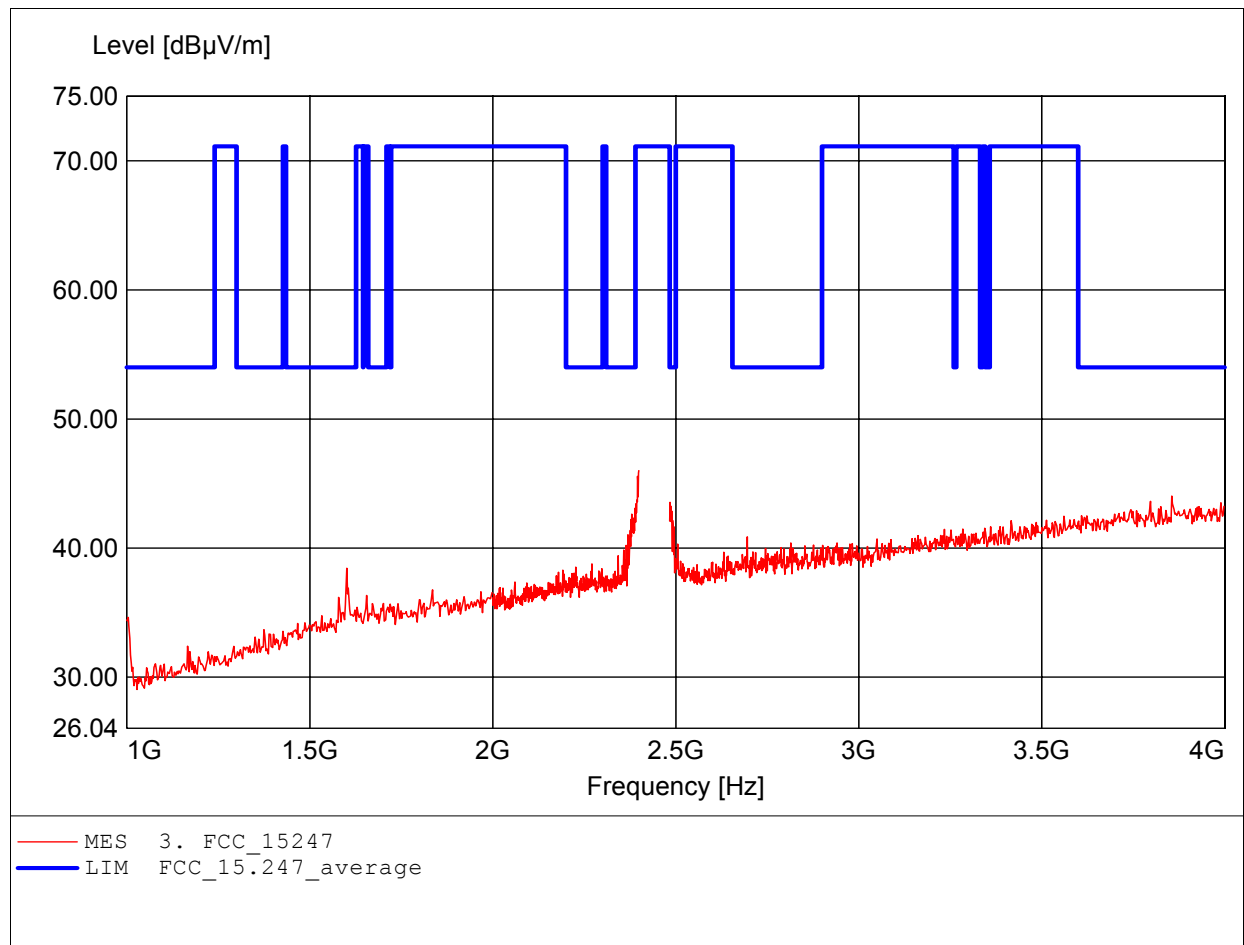
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 3.603GHz, Emax: 43.93dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

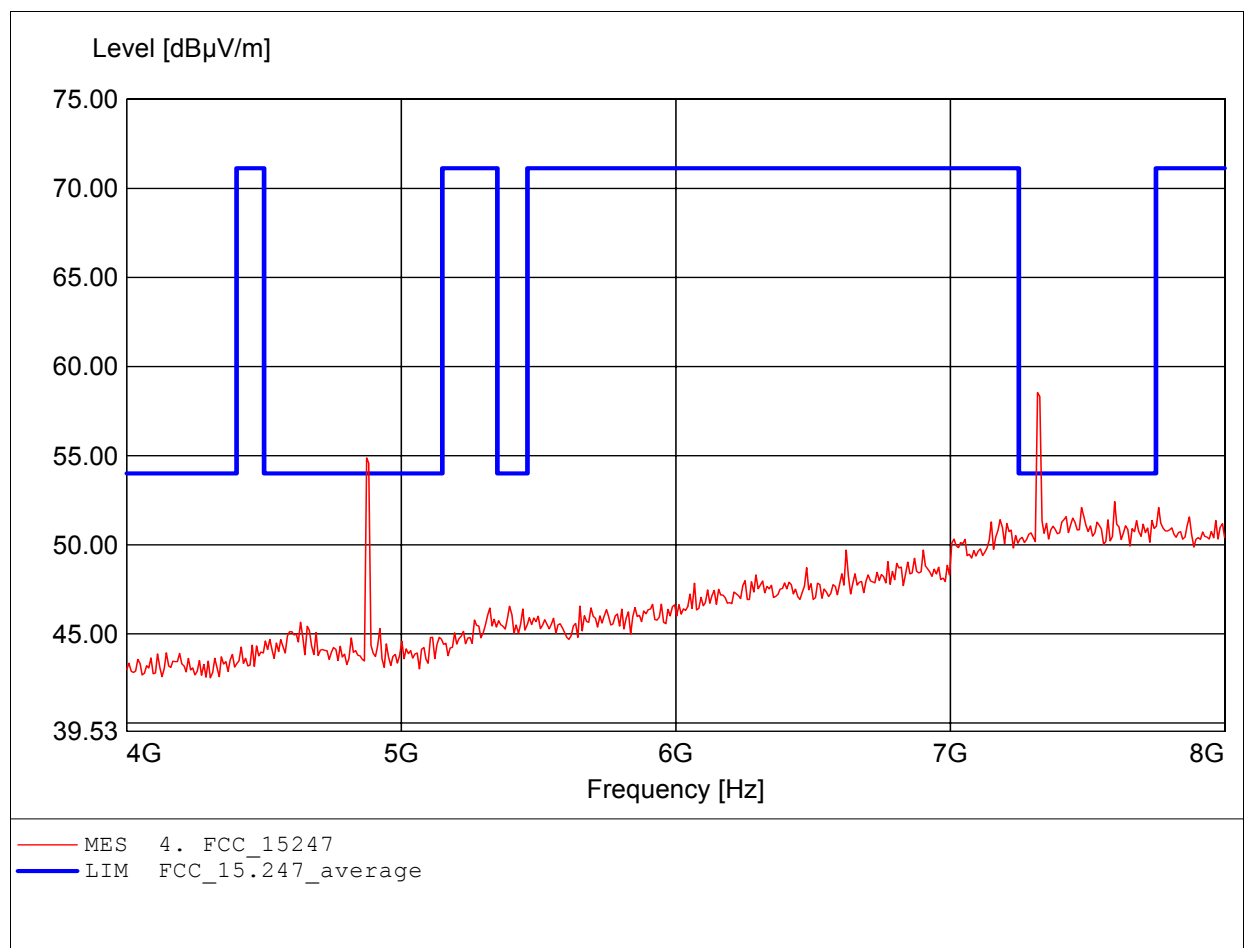
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 2.399GHz, Emax: 46.01dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

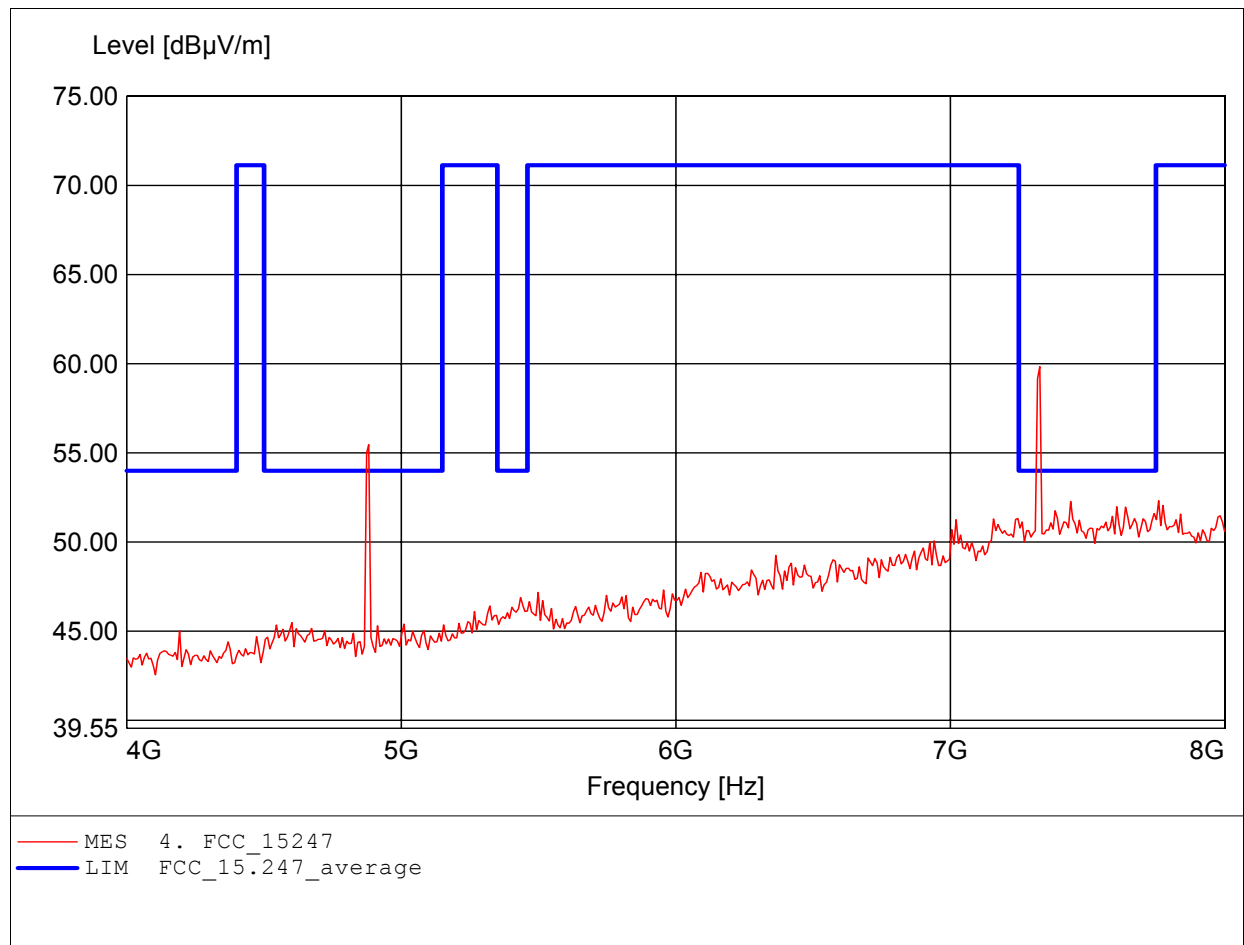
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.319GHz, Emax: 58.54dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

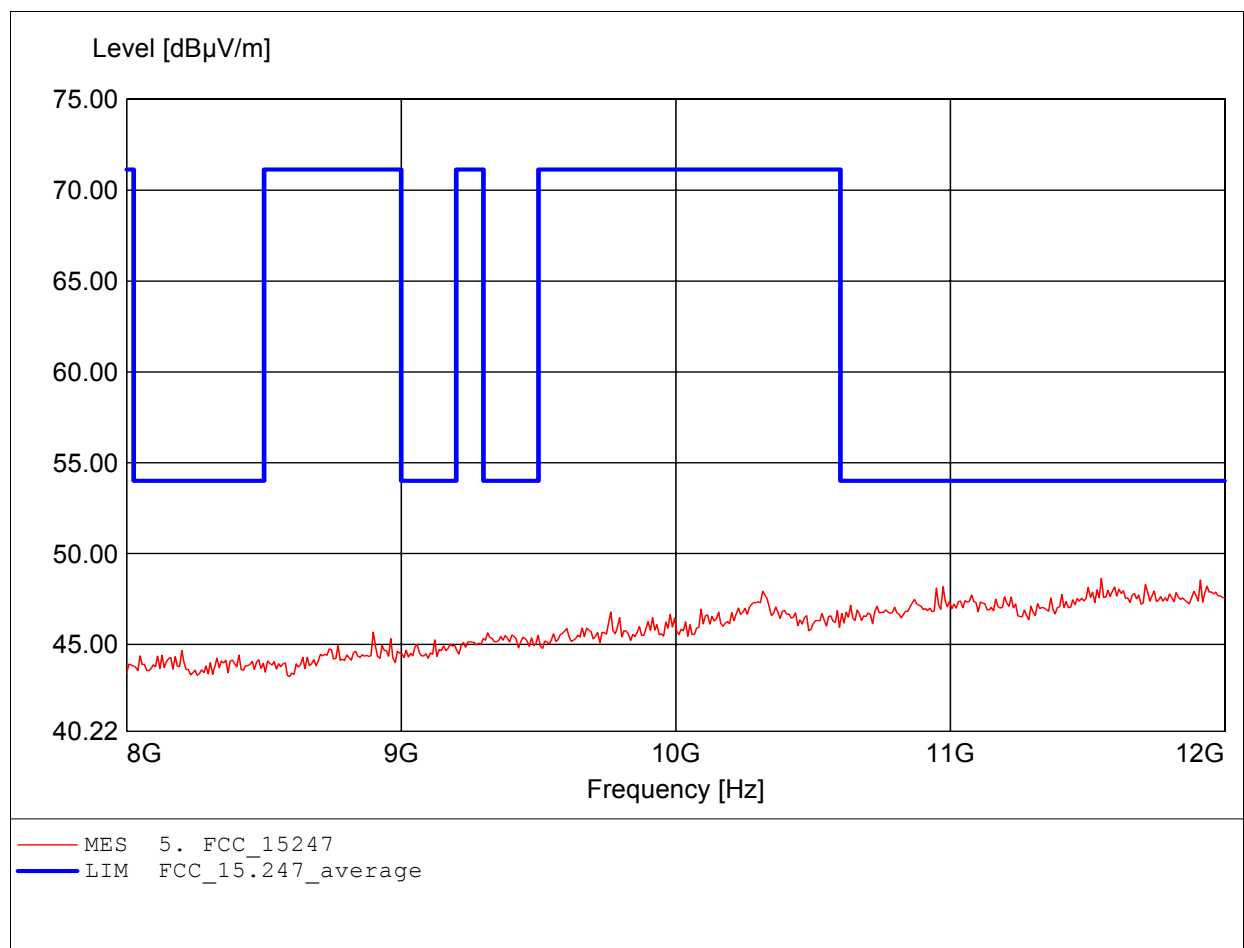
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.327GHz, Emax: 59.84dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

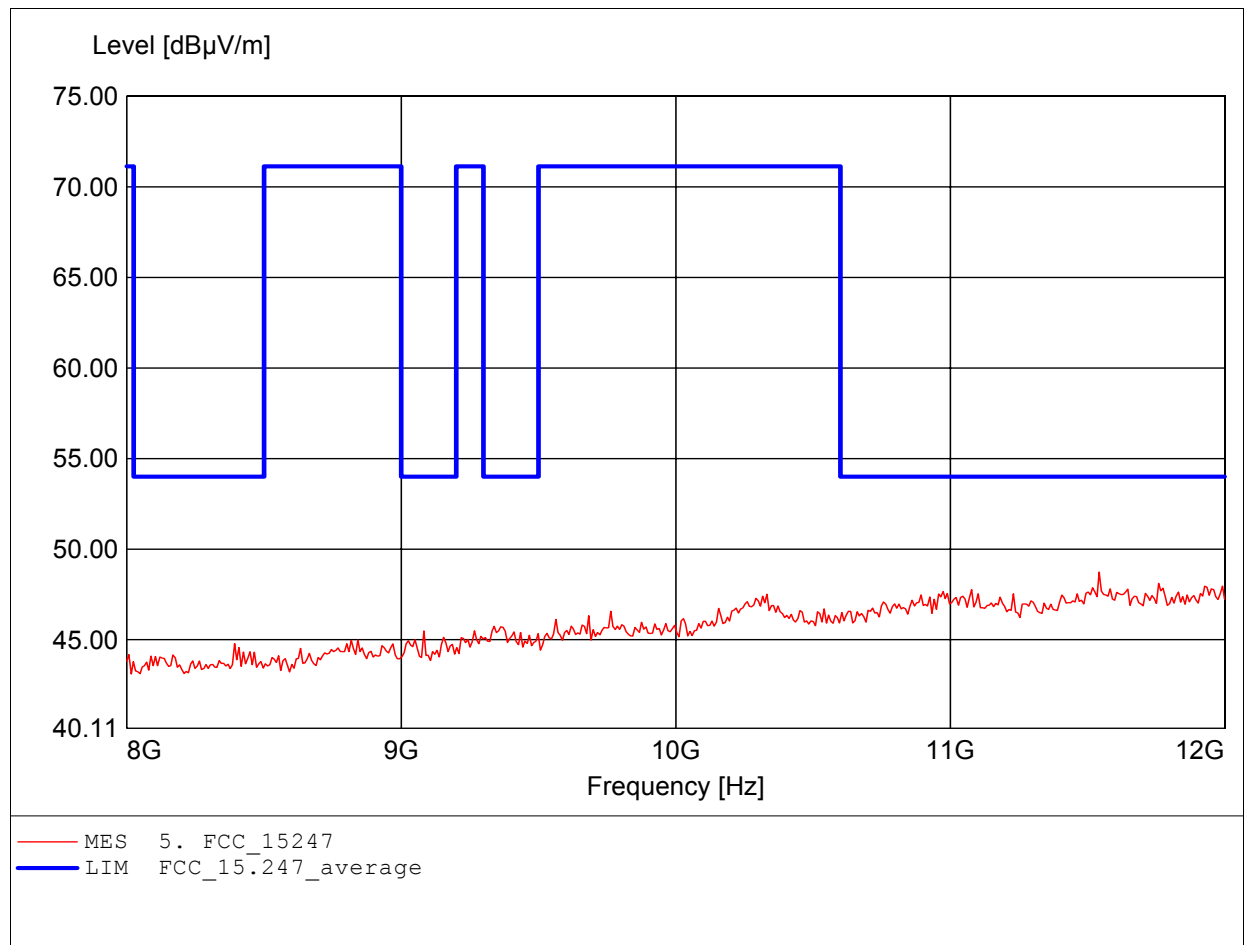
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.551GHz, Emax: 48.64dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

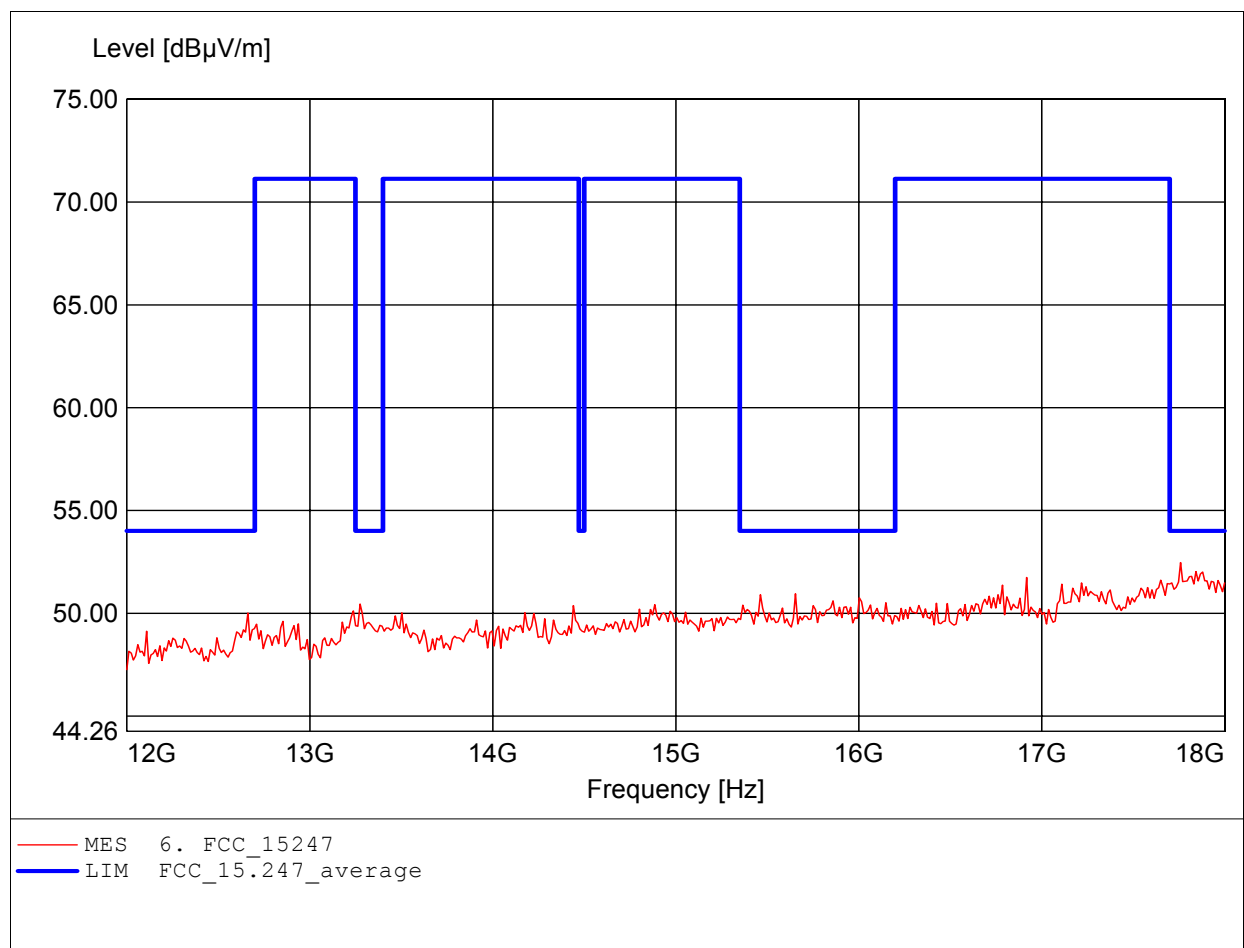
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.543GHz, Emax: 48.73dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

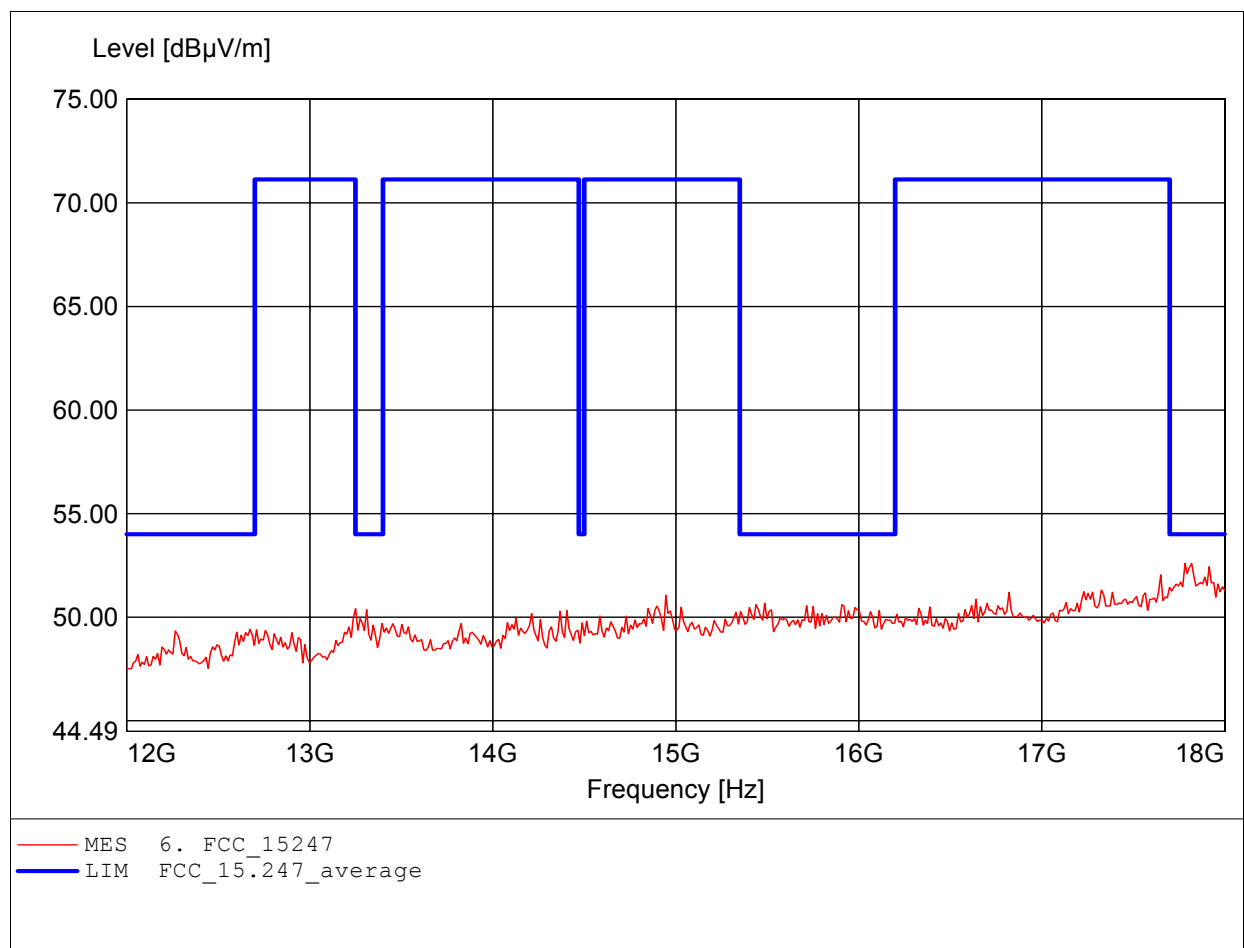
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 17.760GHz, Emax: 52.46dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

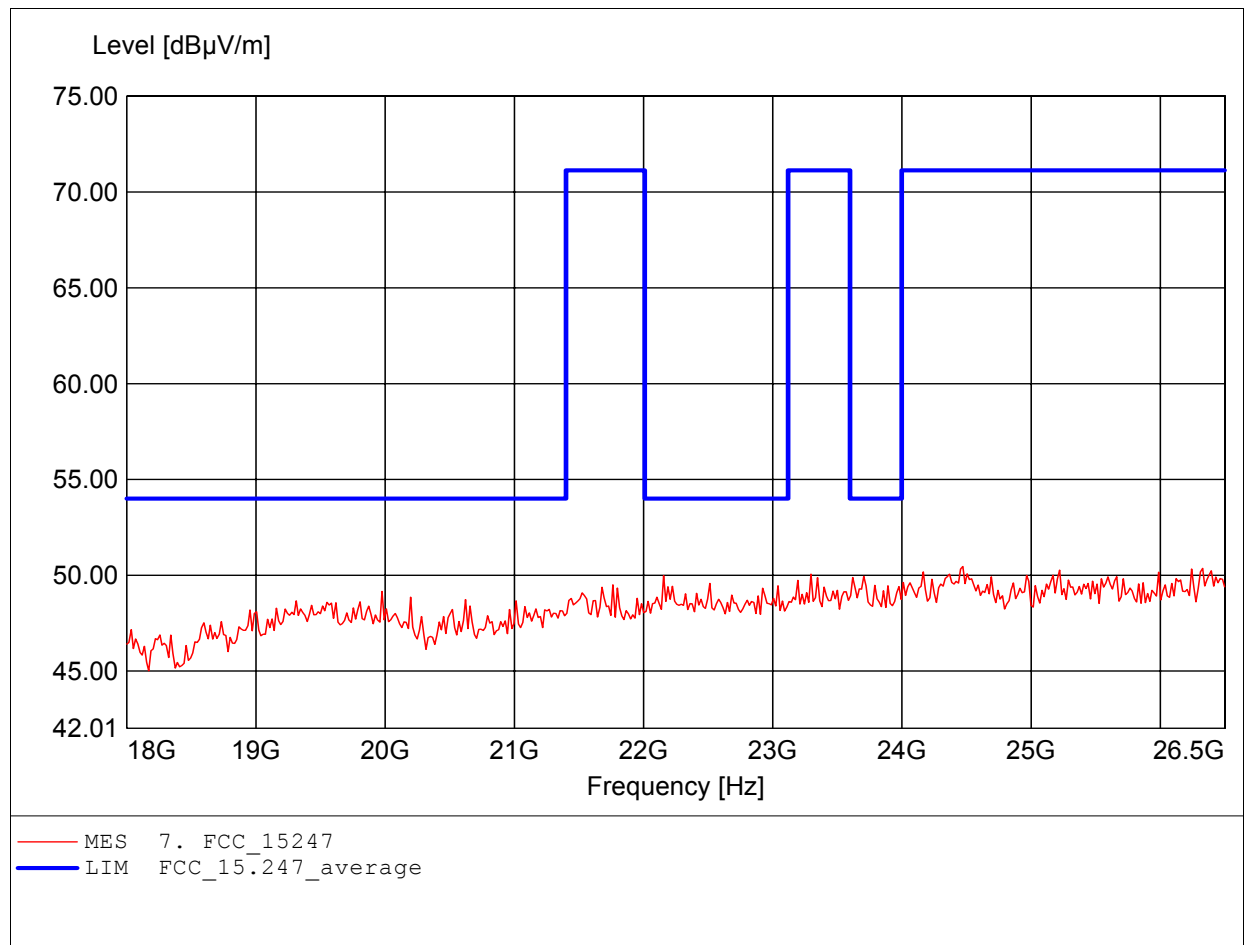
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 17.784GHz, Emax: 52.60dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

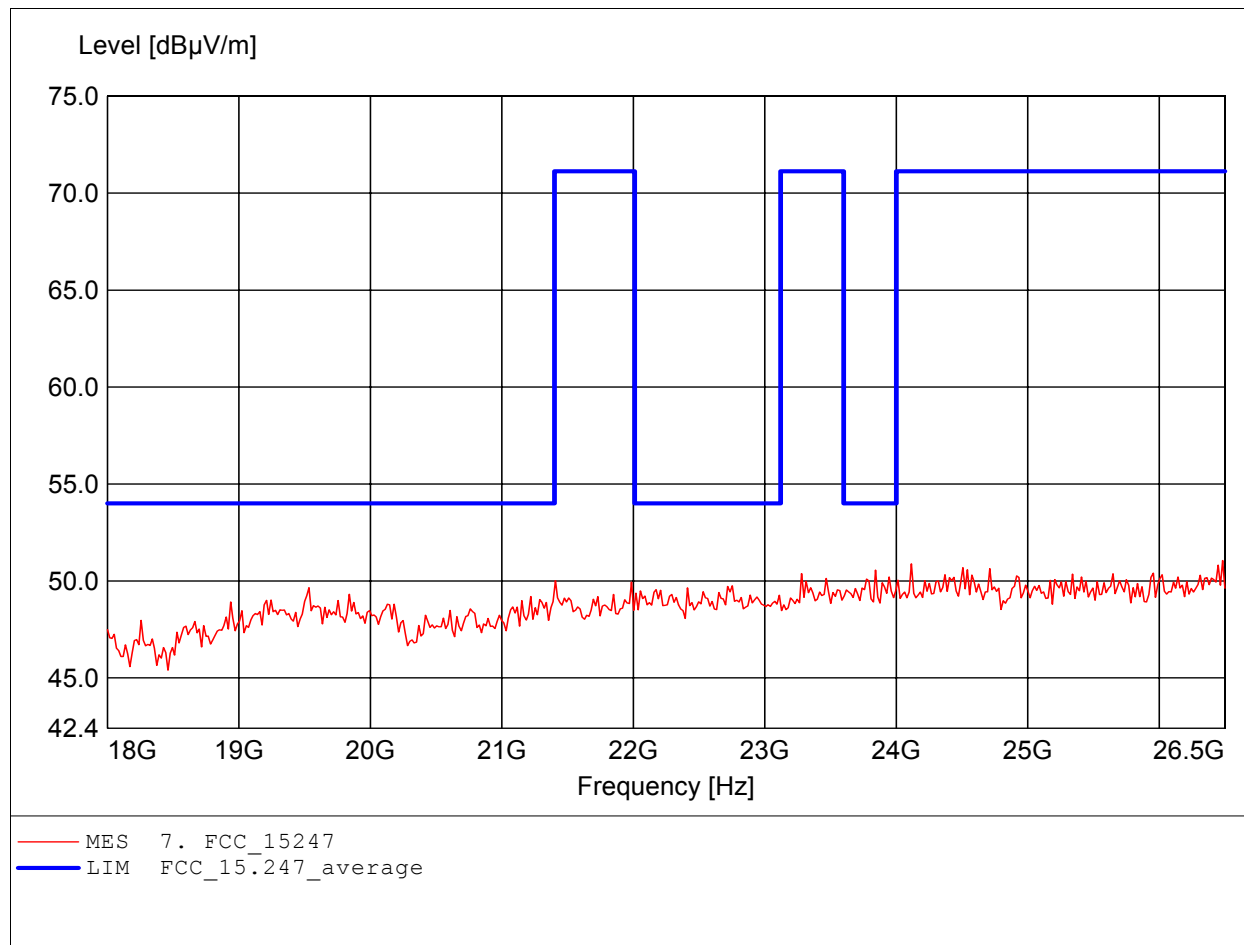
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 24.473GHz, Emax: 50.45dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

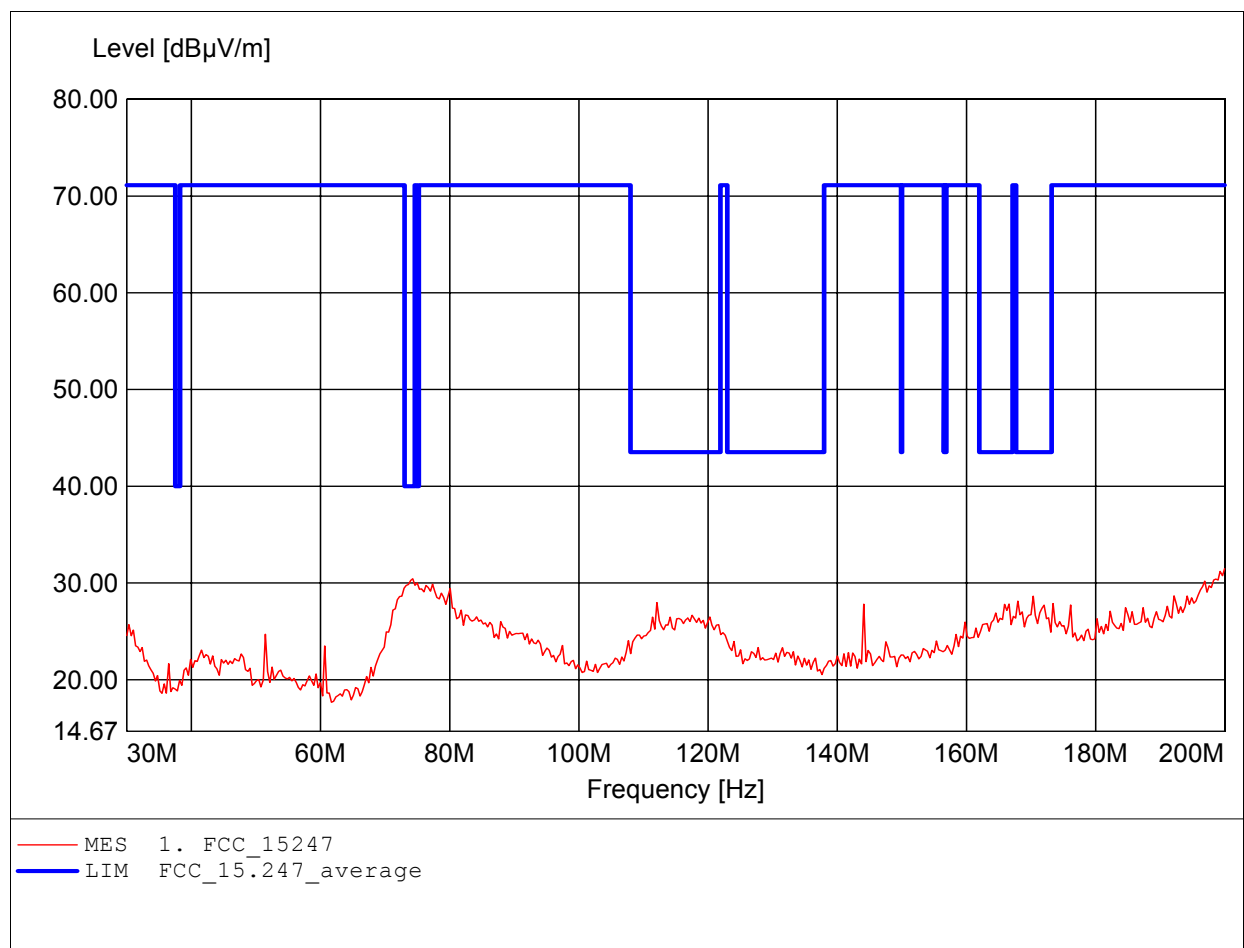
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 26.483GHz, Emax: 51.05dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

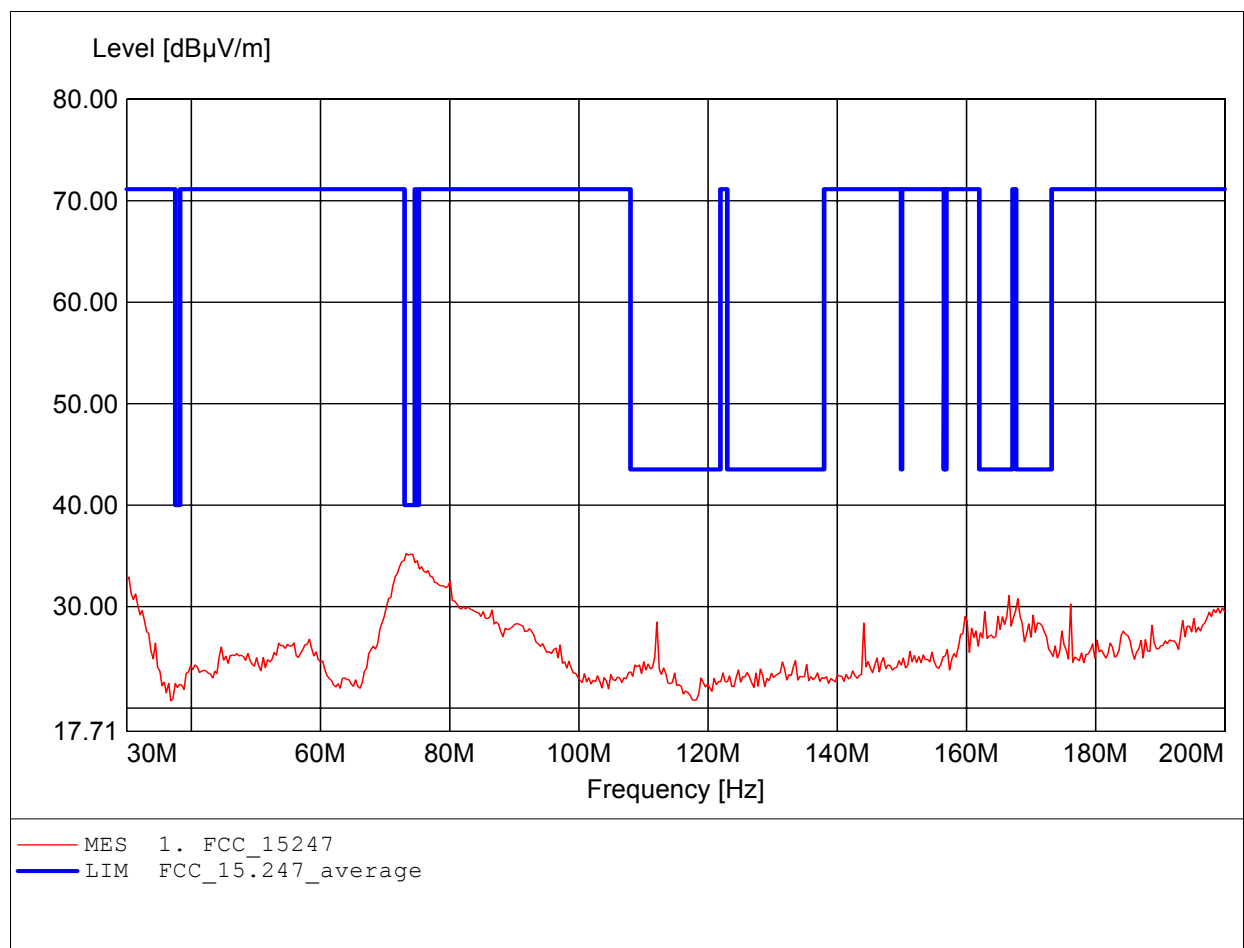
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 200.000MHz, Emax: 31.47dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

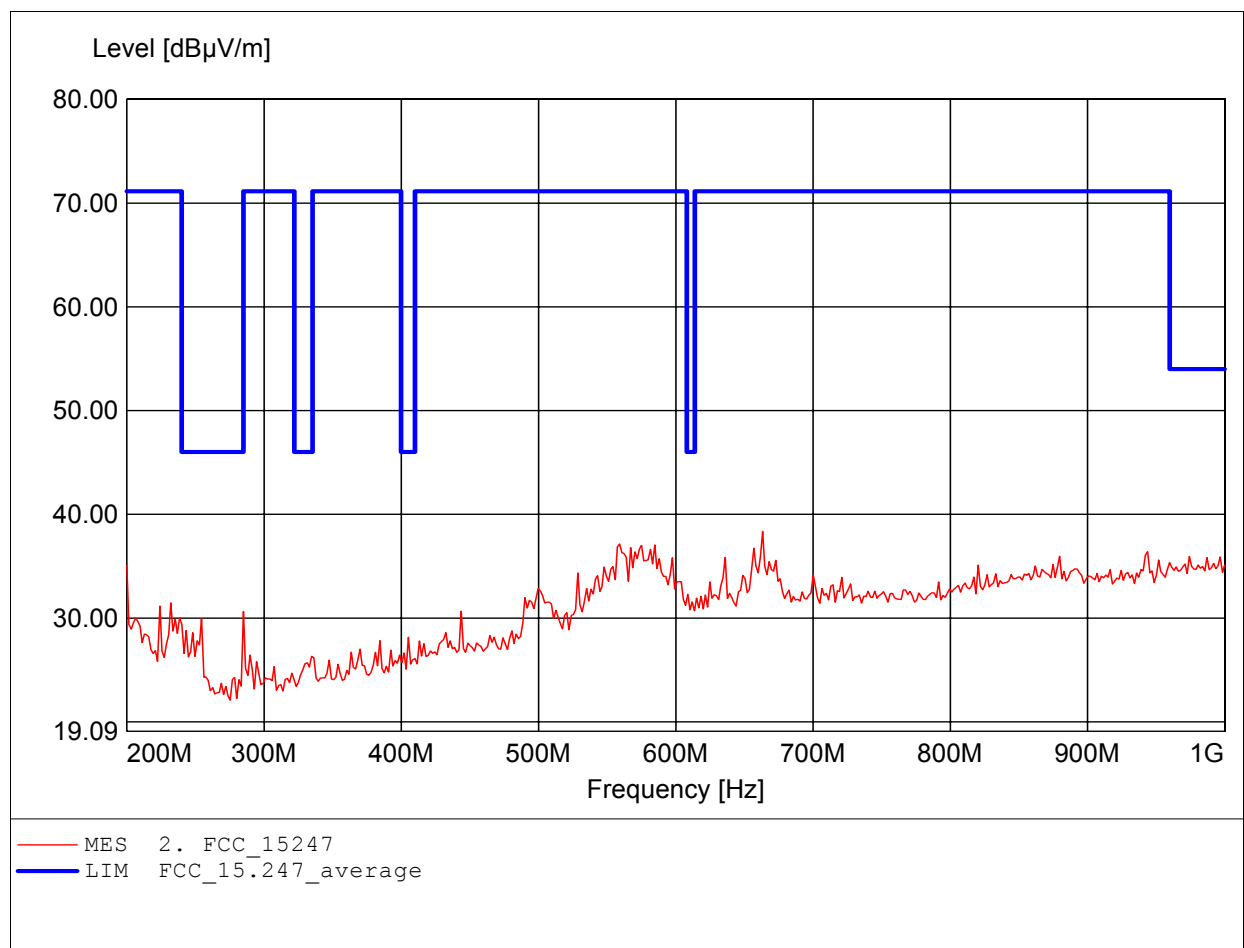
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 73.267MHz, Emax: 35.22dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

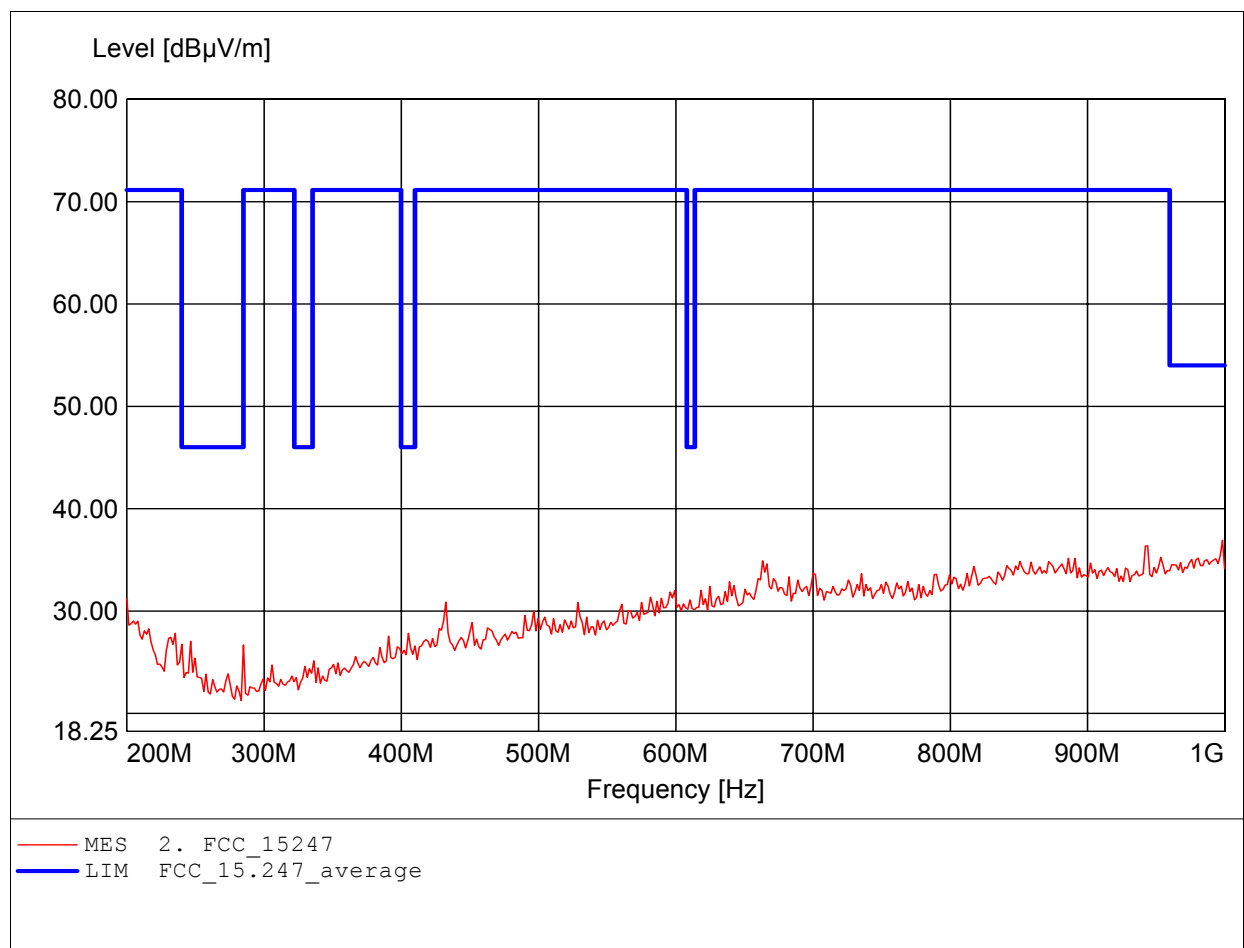
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223,
Freq: 663.327MHz, Emax: 38.36dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

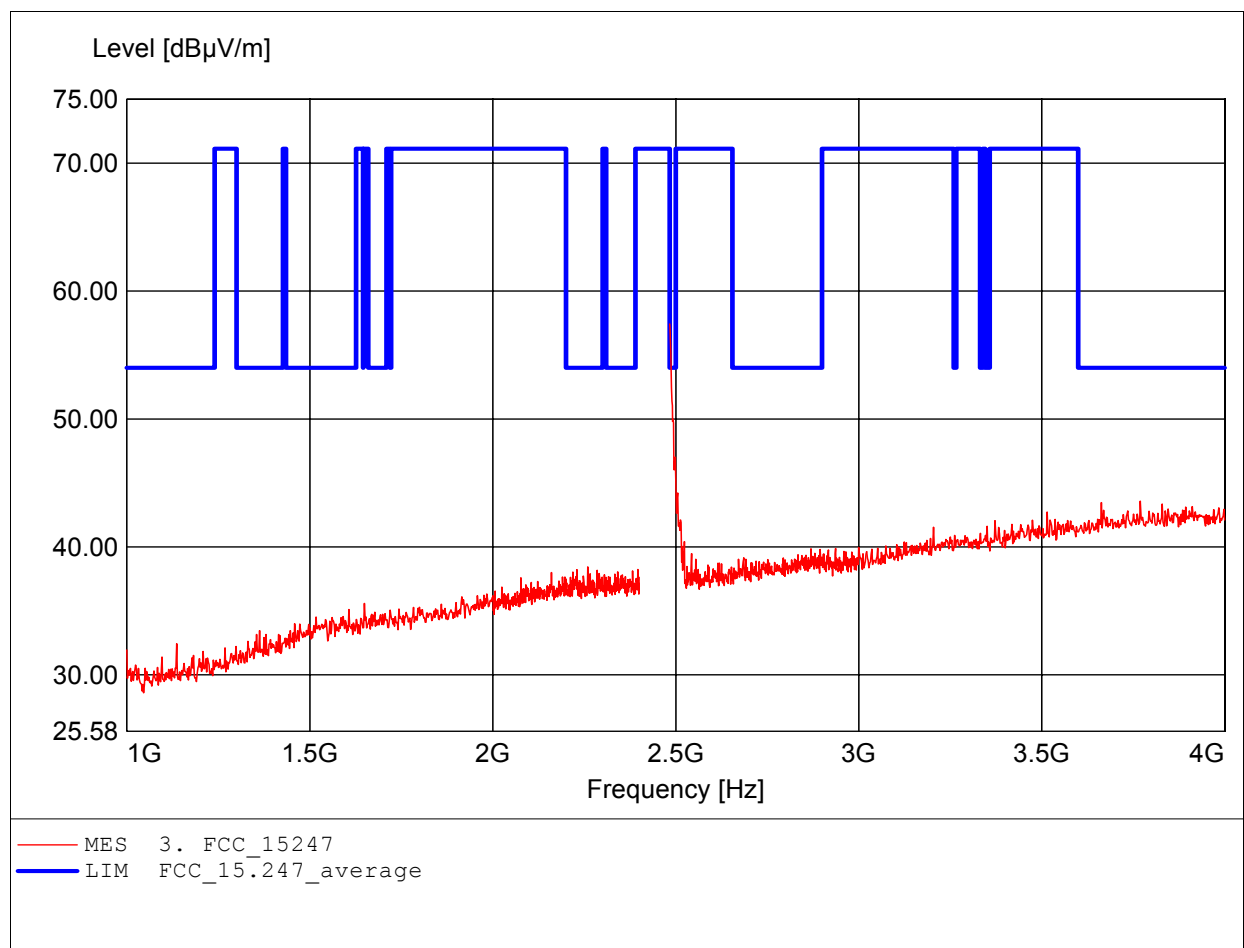
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223,
Freq: 998.397MHz, Emax: 36.90dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

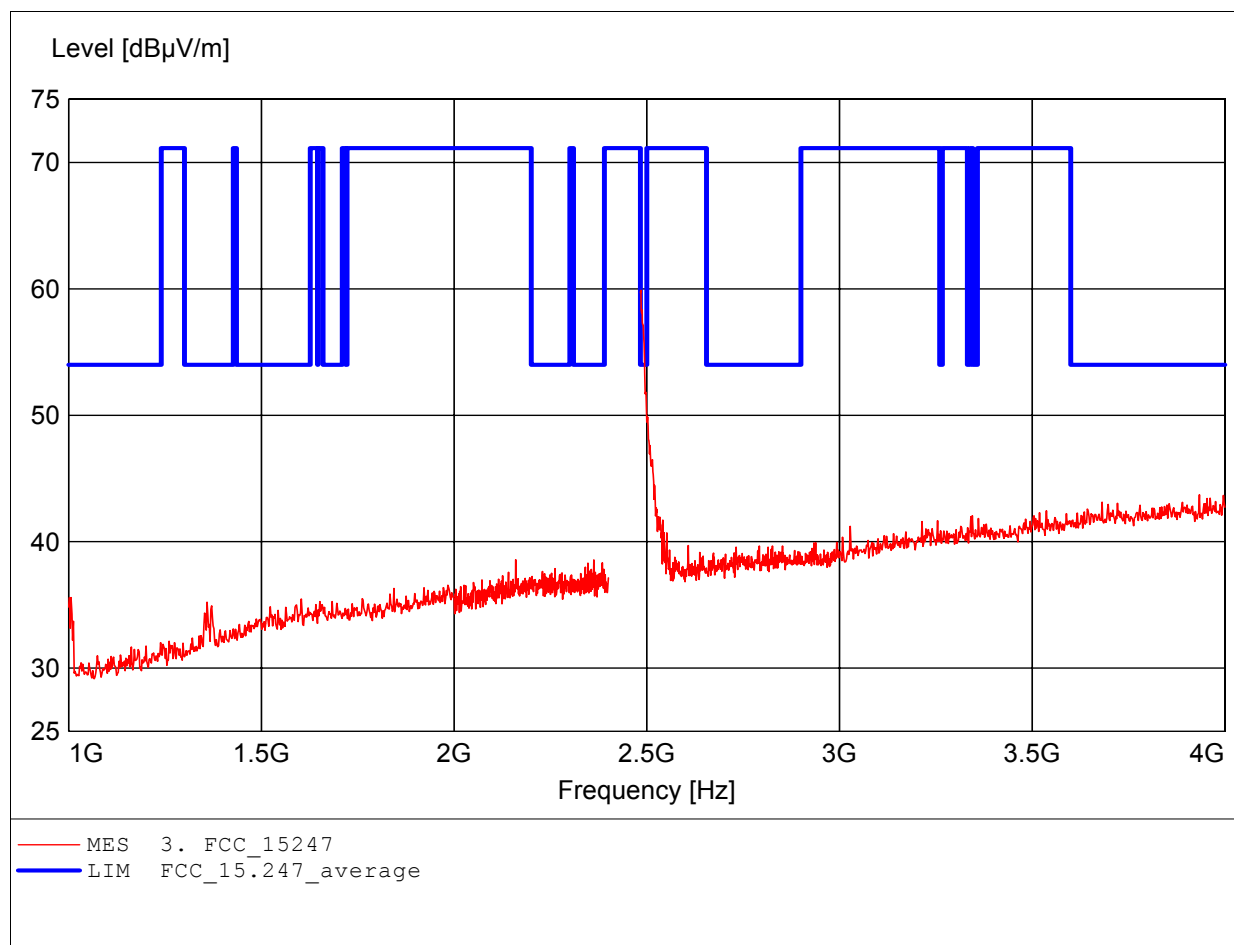
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 2.484GHz, Emax: 57.43dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

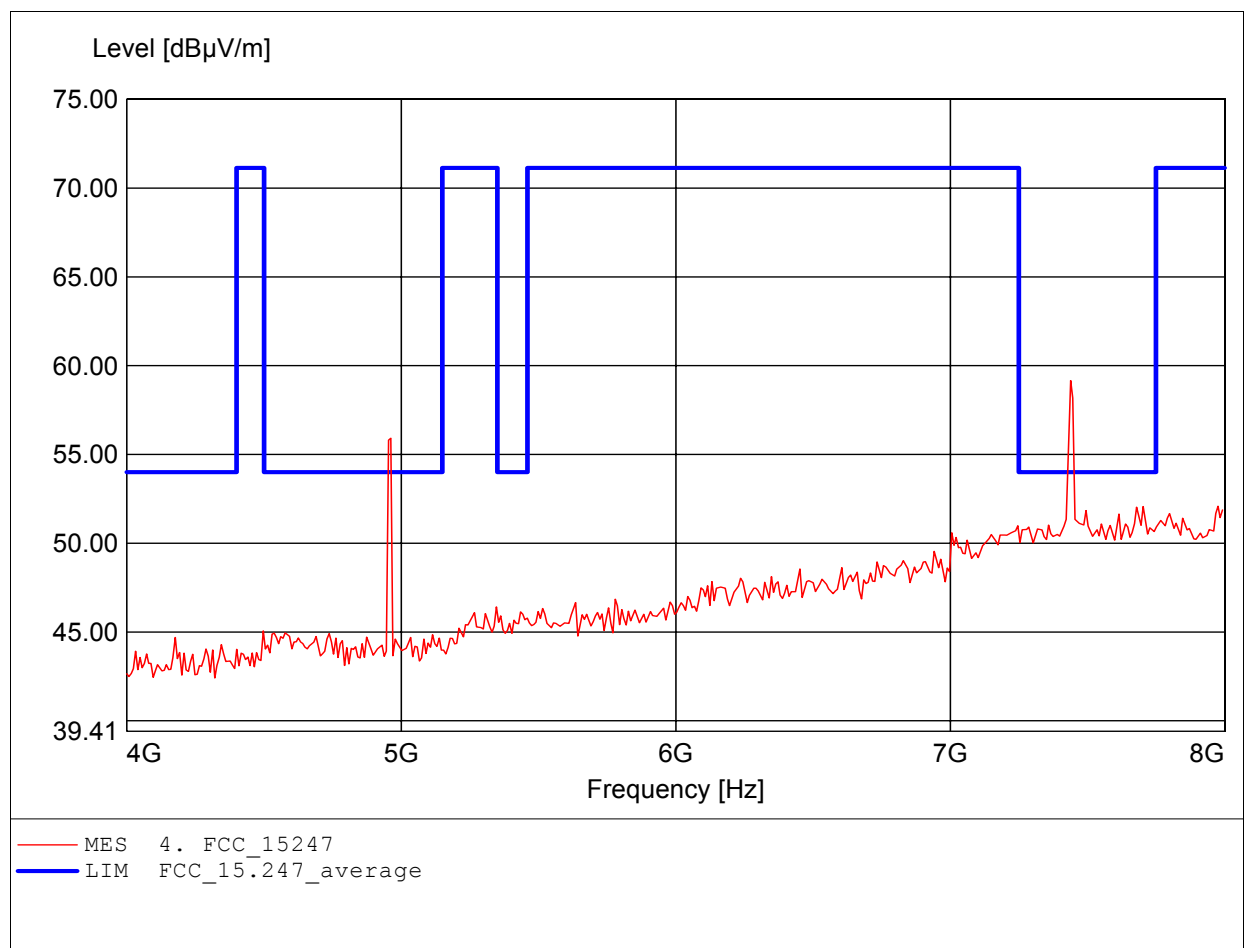
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 2.485GHz, Emax: 59.90dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

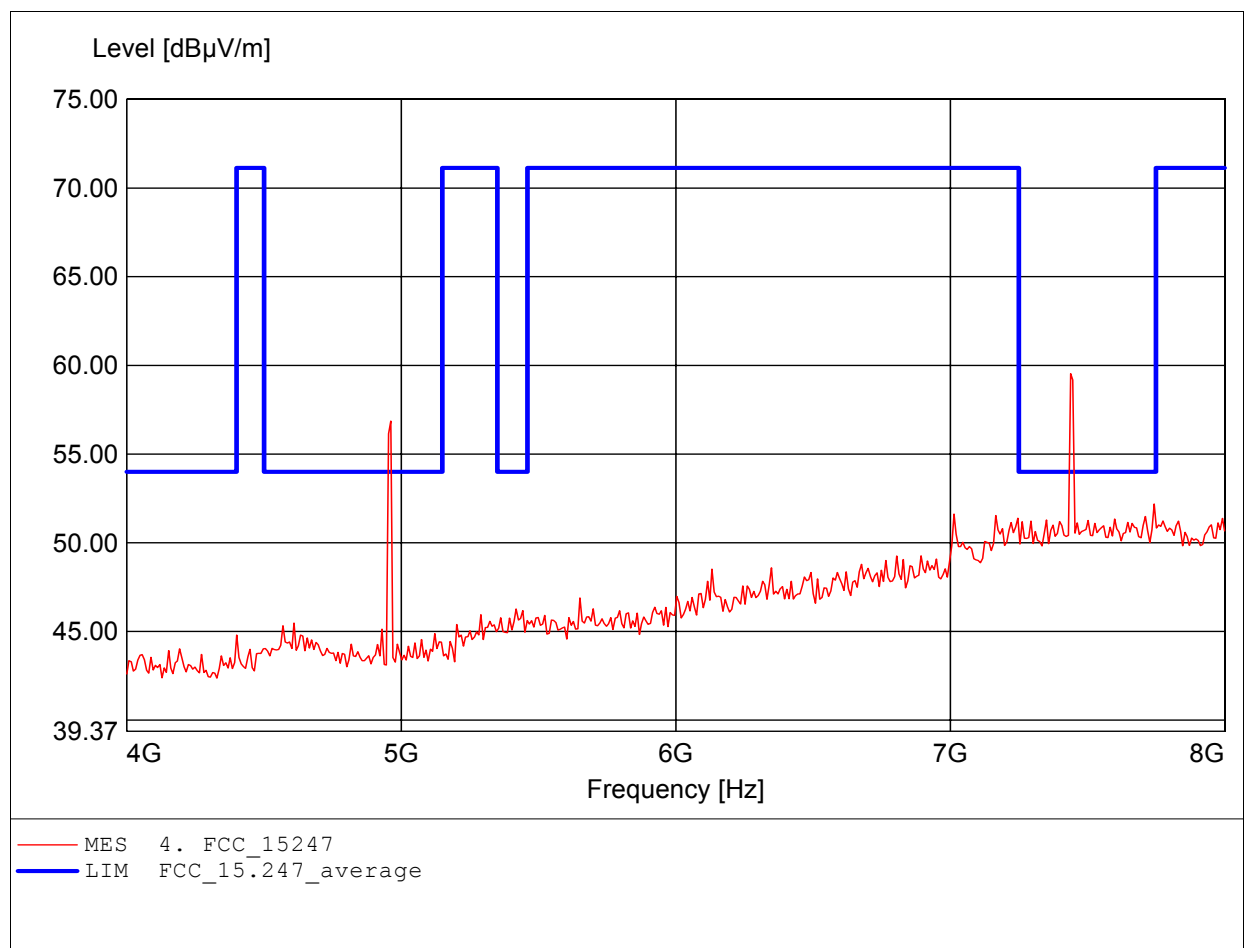
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.439GHz, Emax: 59.16dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

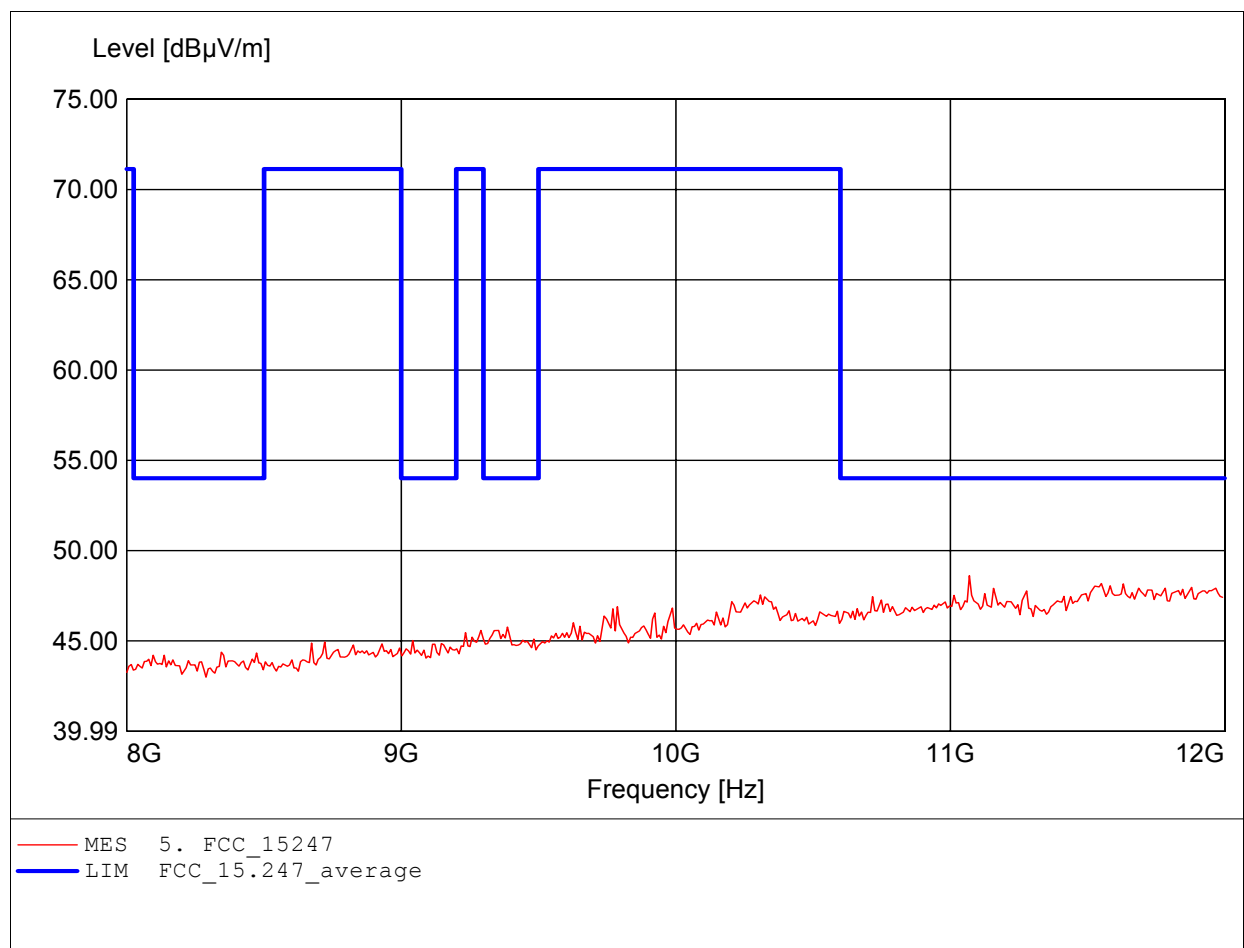
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.439GHz, Emax: 59.53dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

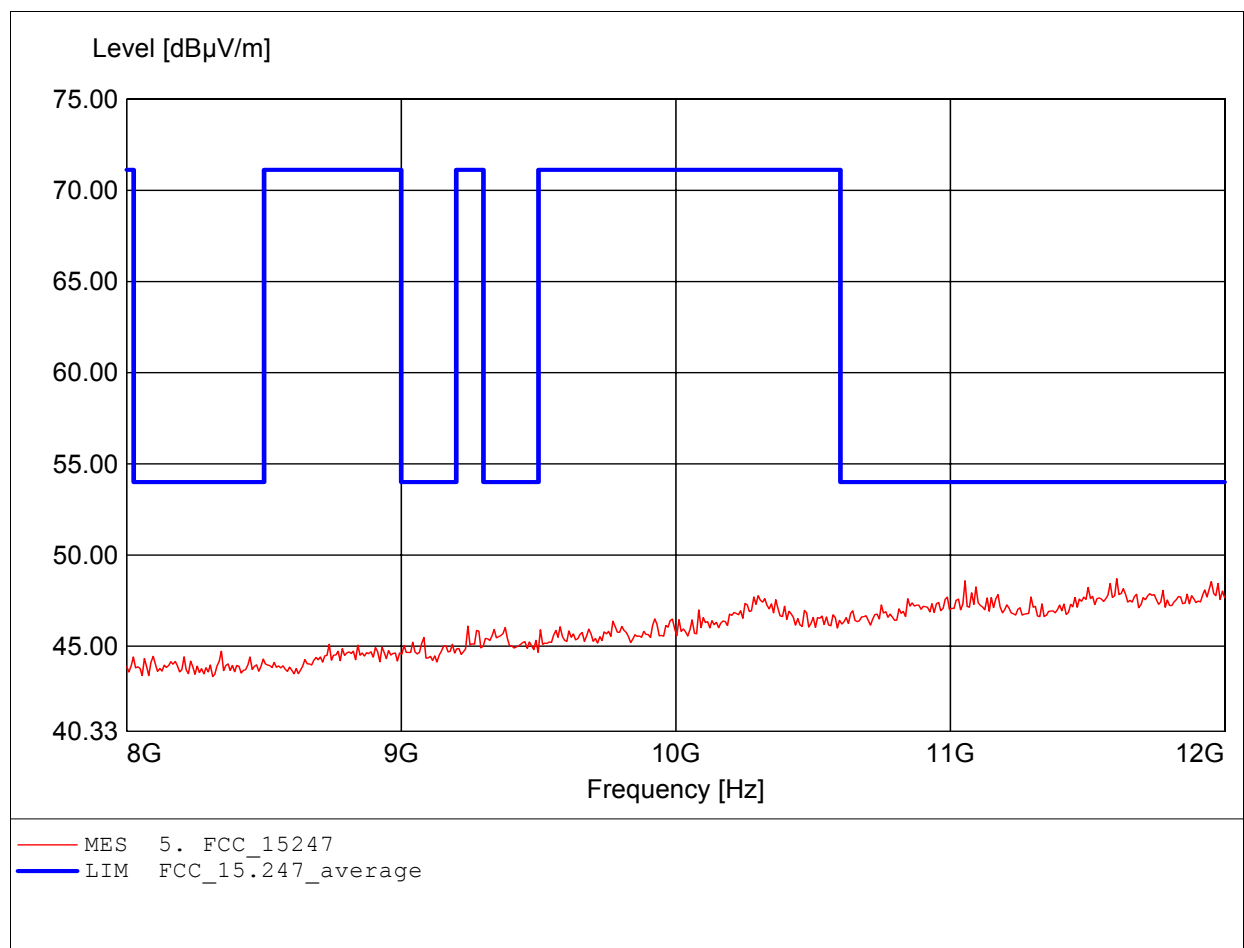
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.070GHz, Emax: 48.61dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

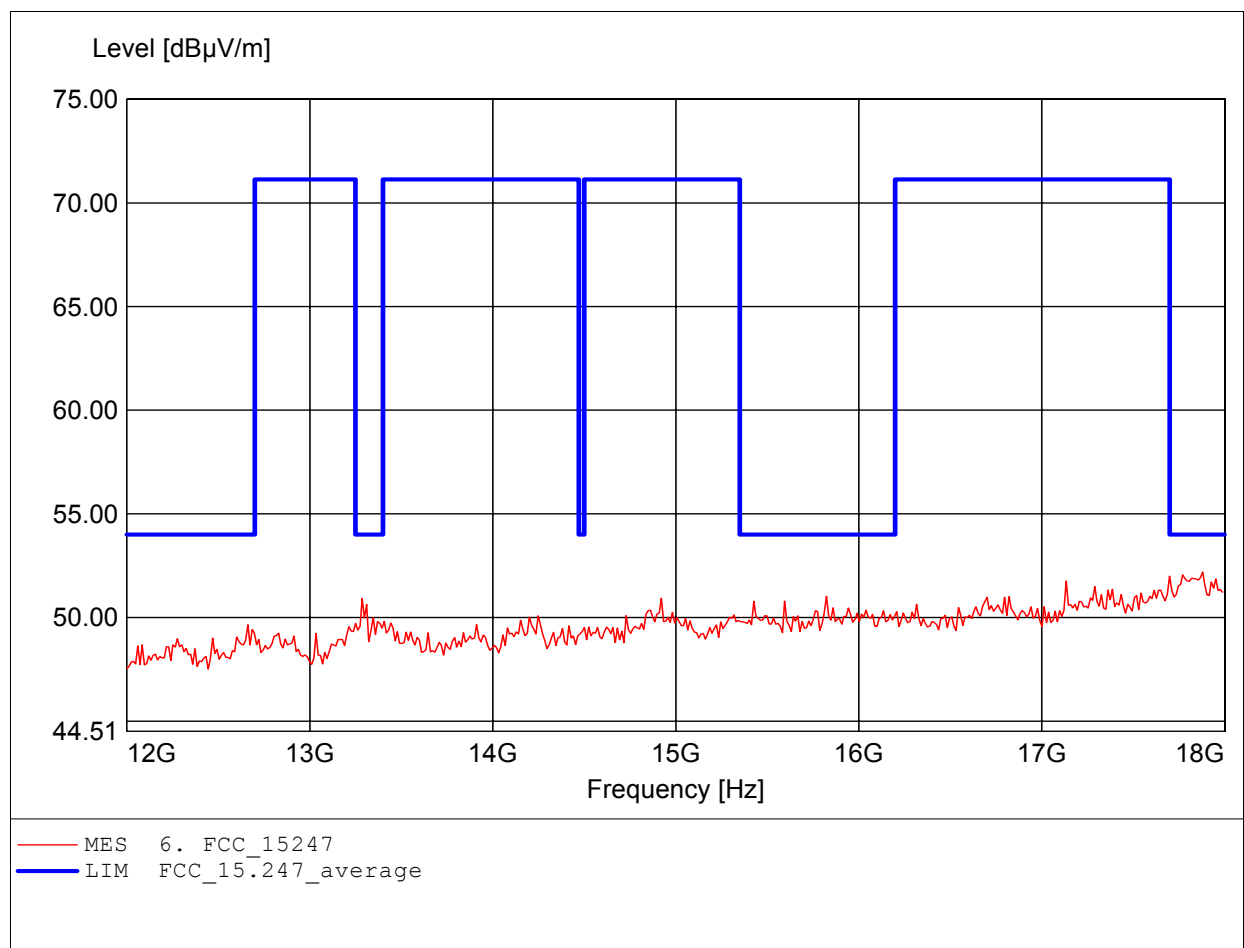
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.607GHz, Emax: 48.70dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

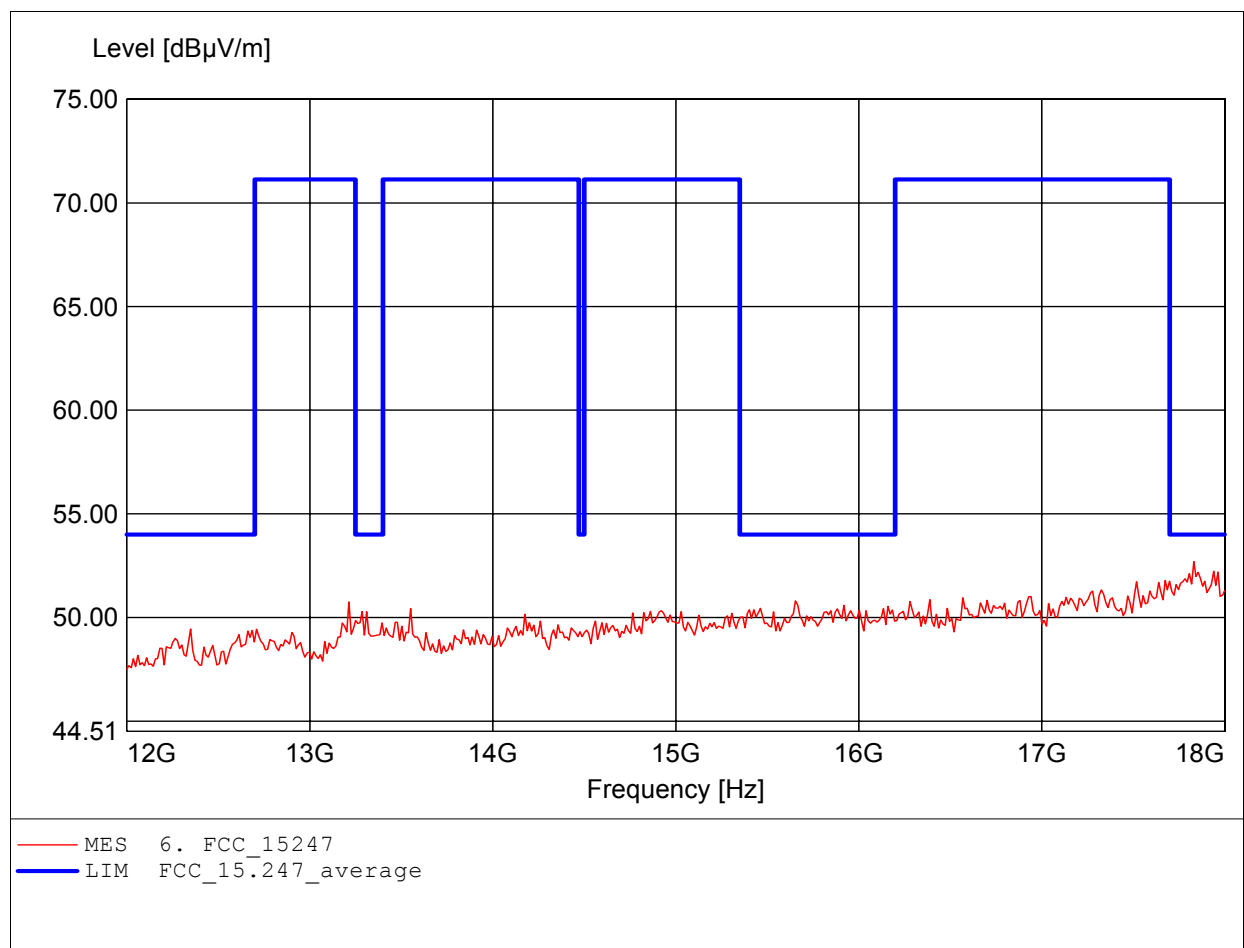
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 17.880GHz, Emax: 52.20dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

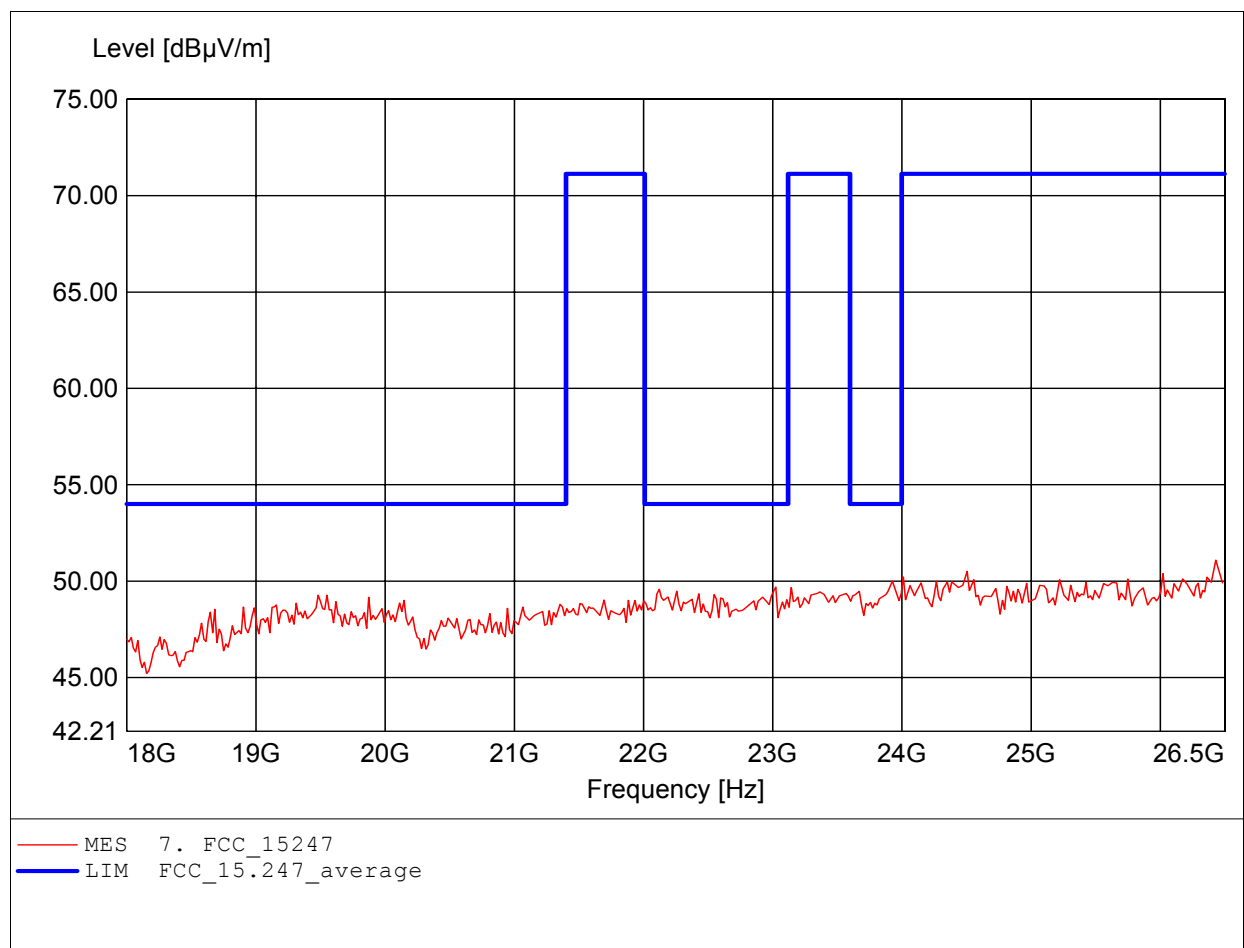
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 17.832GHz, Emax: 52.69dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

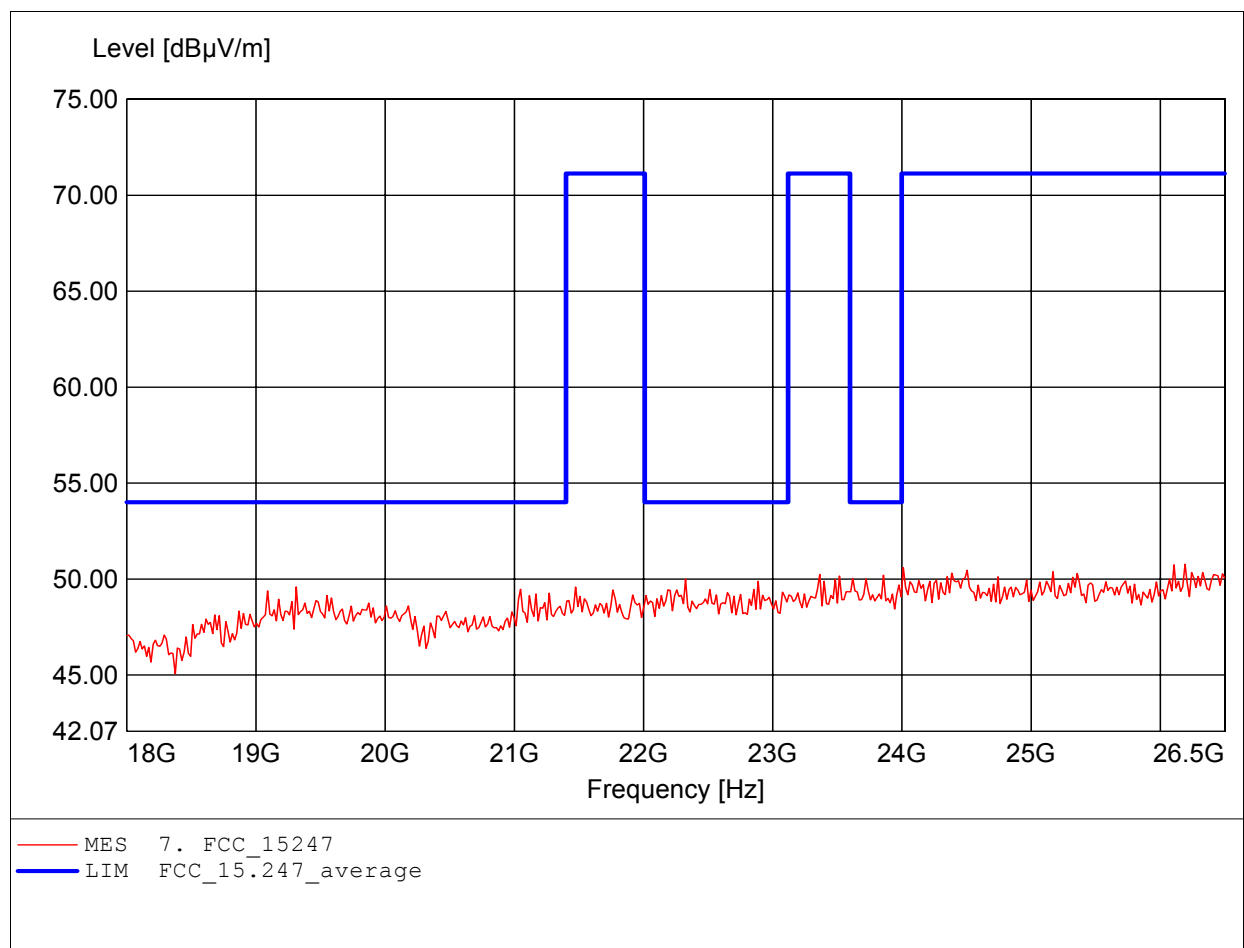
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 26.432GHz, Emax: 51.09dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 26.193GHz, Emax: 50.78dBμV/m, RBW: 1MHz



Appendix C

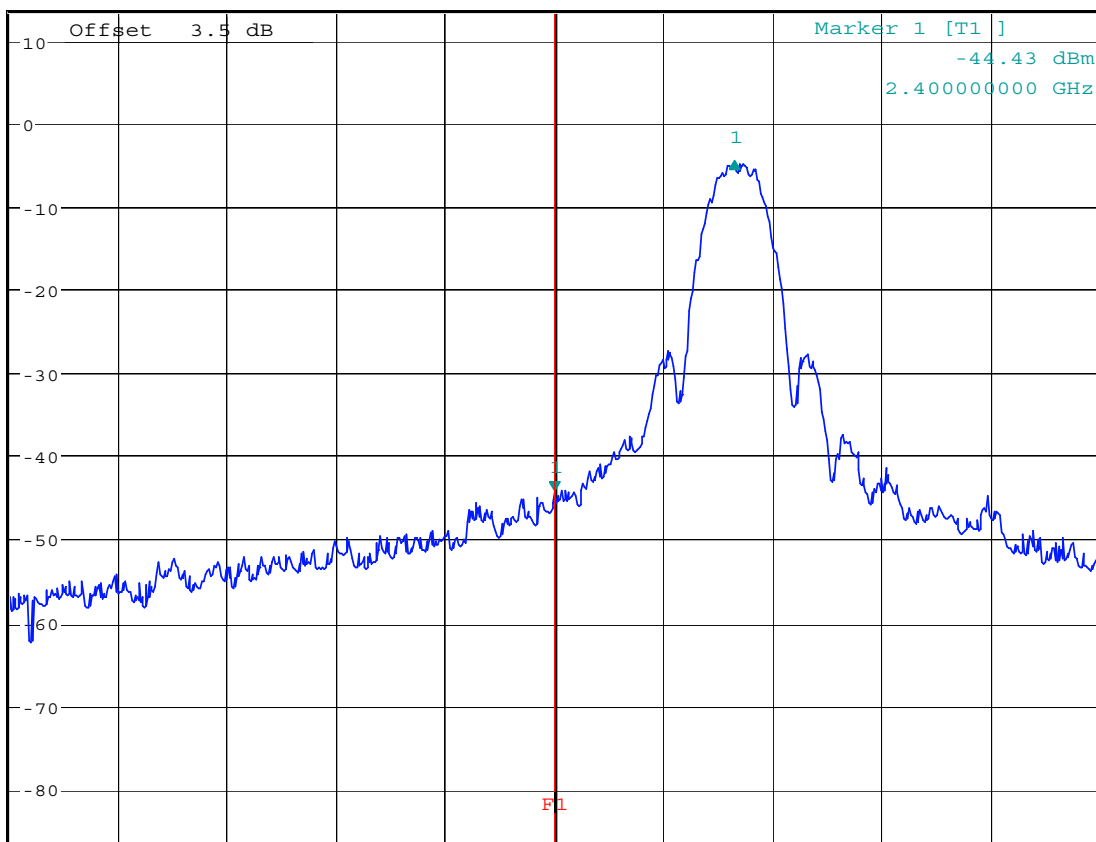
Band Edge Measurement



* RBW 100 kHz Delta 1 [T1]
* VBW 100 kHz 39.70 dB
* SWT 200 ms 4.951923077 MHz

Ref 13.5 dBm * Att 5 dB

1 PK
MAXH



A

LVL

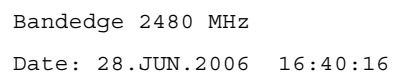
Center 2.4 GHz

3 MHz/

Span 30 MHz

Bandedge 2405 MHz

Date: 28.JUN.2006 16:38:44



Appendix D

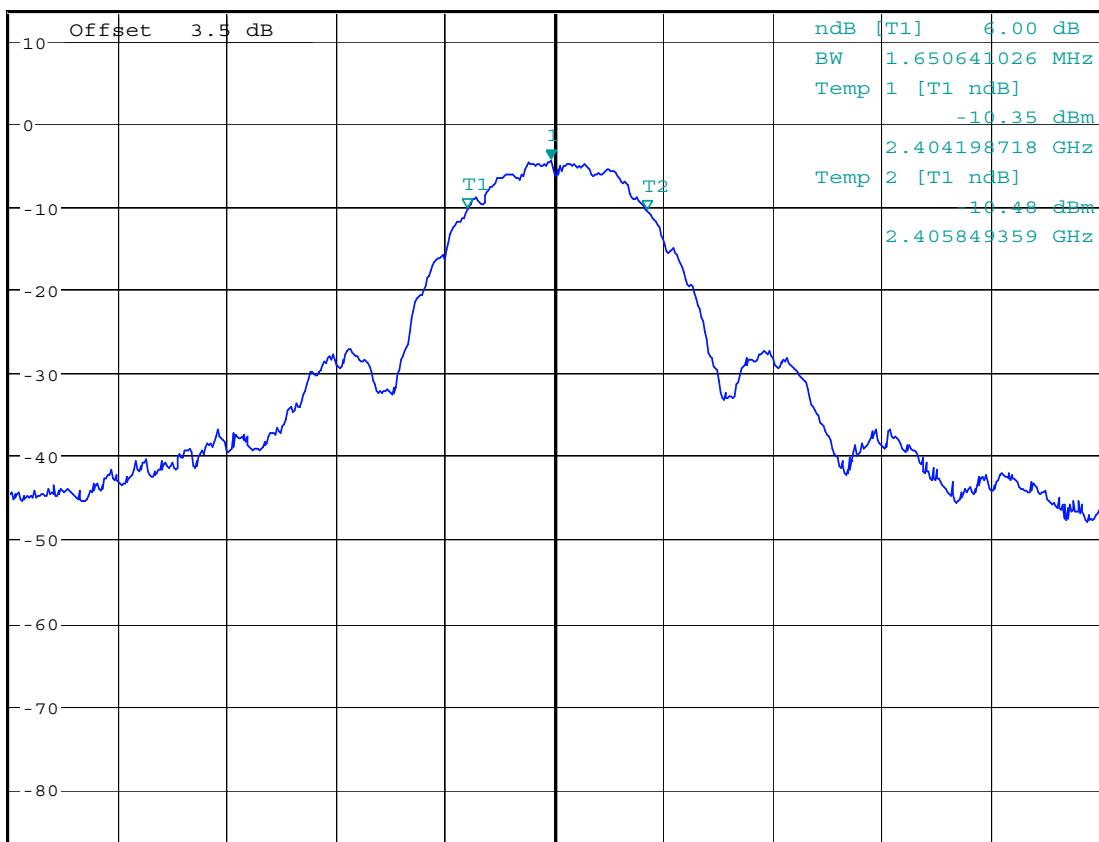
Minimum 6dB Bandwidth



* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -4.54 dBm
* SWT 200 ms 2.404967949 GHz

Ref 13.5 dBm * Att 5 dB

1 PK
MAXH



A

LVL

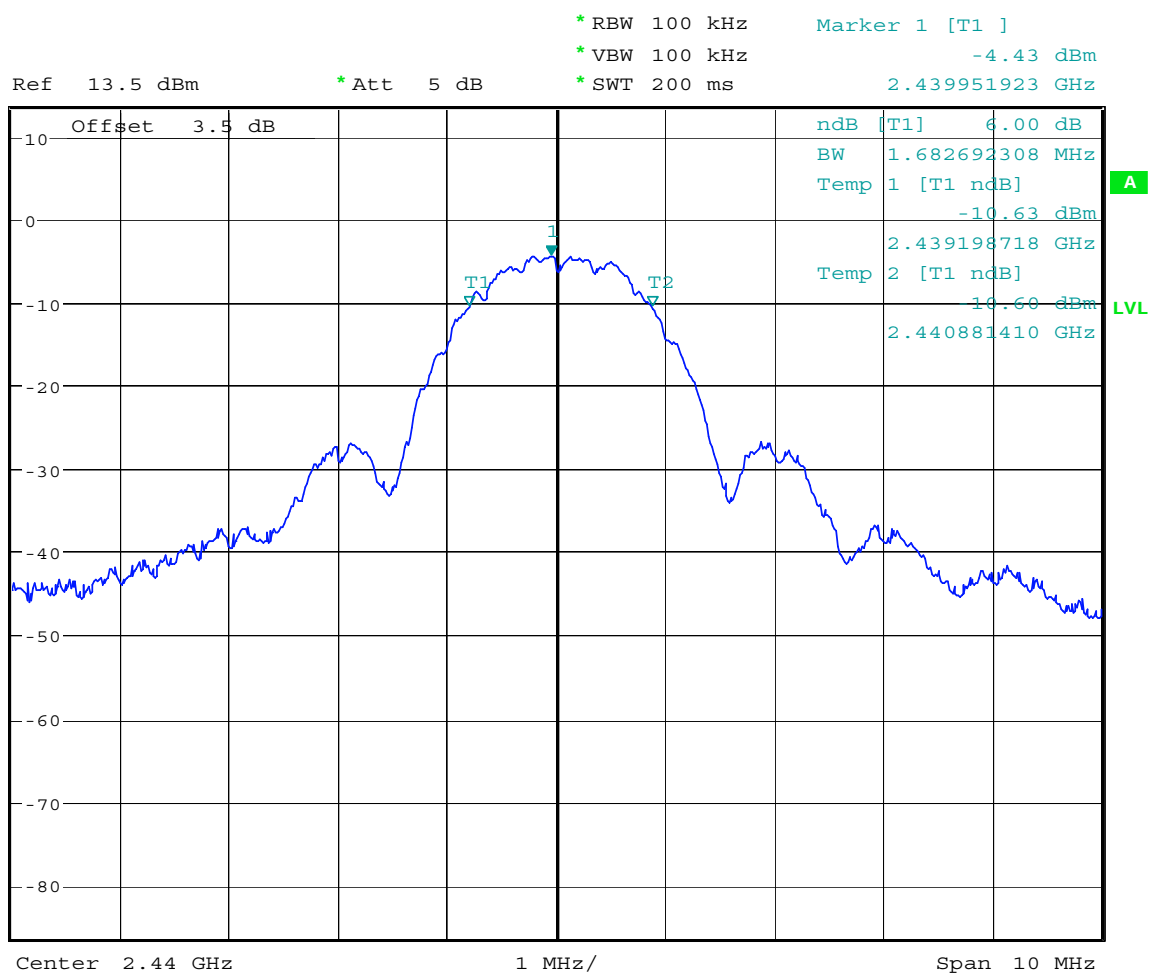
Center 2.405 GHz

1 MHz/

Span 10 MHz

6dB bandwidth 2405 MHz

Date: 28.JUN.2006 16:48:05



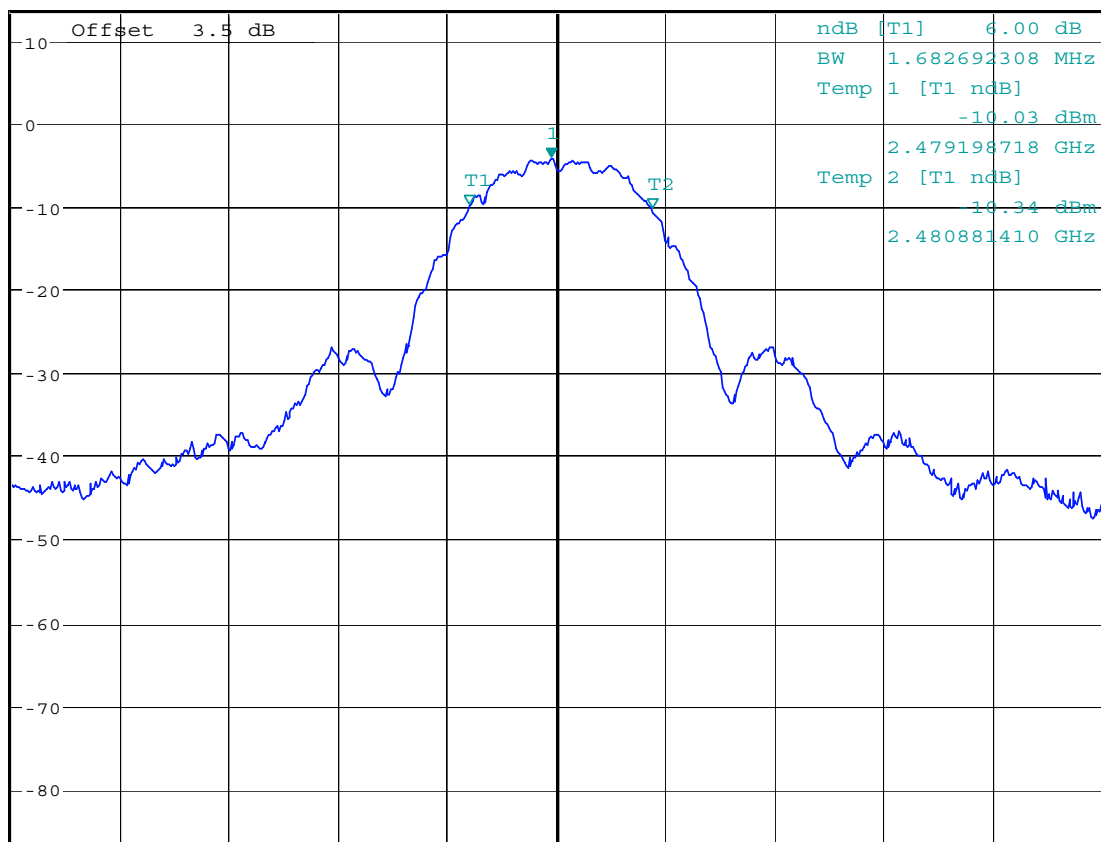
Date: 28.JUN.2006 16:45:33



* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -4.27 dBm
* SWT 200 ms 2.479951923 GHz

Ref 13.5 dBm * Att 5 dB

1 PK
MAXH



Center 2.48 GHz

1 MHz/

Span 10 MHz

6dB bandwidth 2480 MHz

Date: 28.JUN.2006 16:44:43

Appendix E

Peak Power Spectral Density

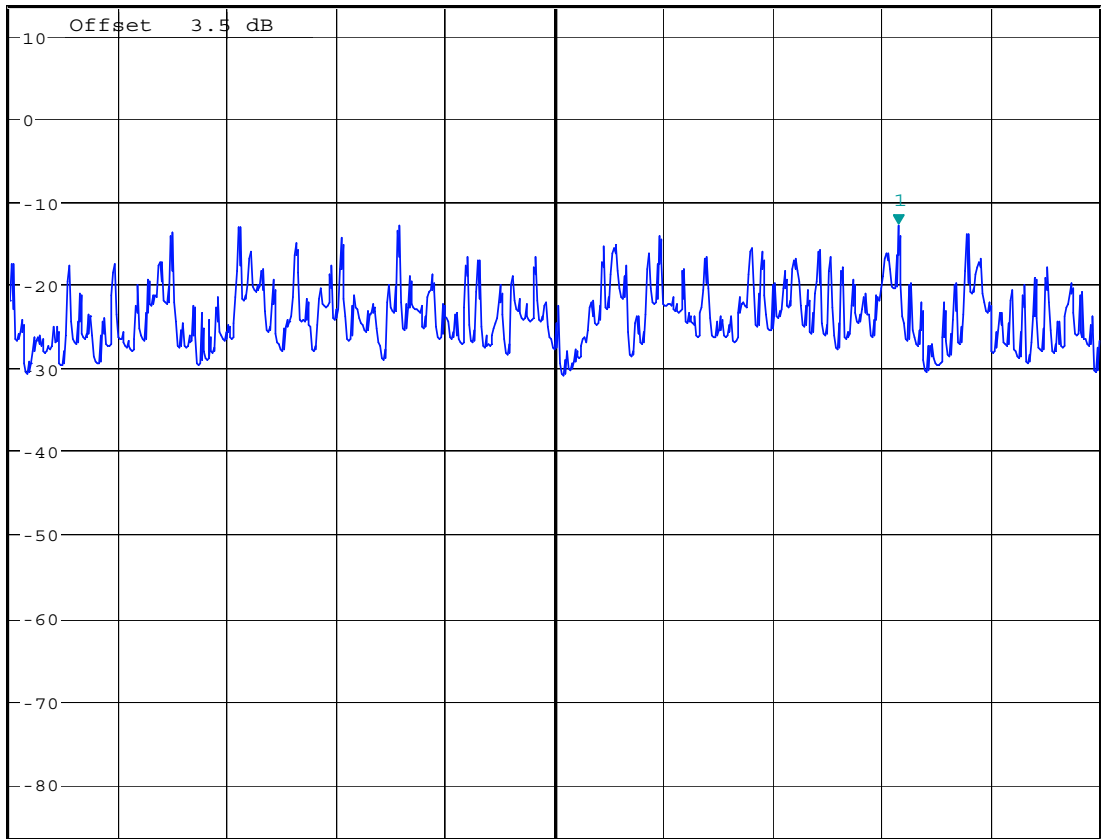


* RBW 3 kHz Marker 1 [T1]
* VBW 100 kHz -12.81 dBm
* SWT 500 s 2.405473558 GHz

Ref 13.5 dBm

* Att 5 dB

1 PK
MAXH



*
A

LVL

Center 2.405 GHz

150 kHz/

Span 1.5 MHz

Power density 2405 MHz

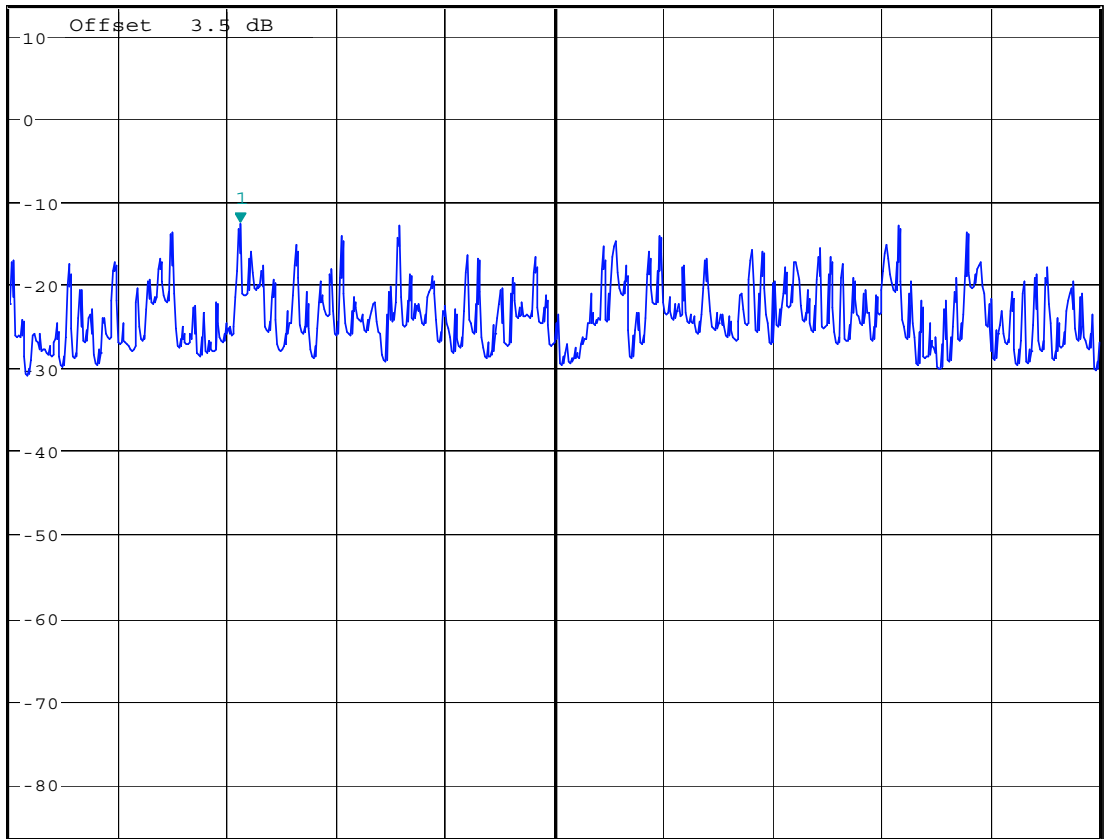
Date: 28.JUN.2006 16:57:42



* RBW 3 kHz Marker 1 [T1]
* VBW 100 kHz -12.65 dBm
* SWT 500 s 2.439567308 GHz

Ref 13.5 dBm * Att 5 dB

1 PK
MAXH



✱
A

LVL

Center 2.44 GHz 150 kHz/ Span 1.5 MHz

Power density 2440 MHz

Date: 28.JUN.2006 16:58:49

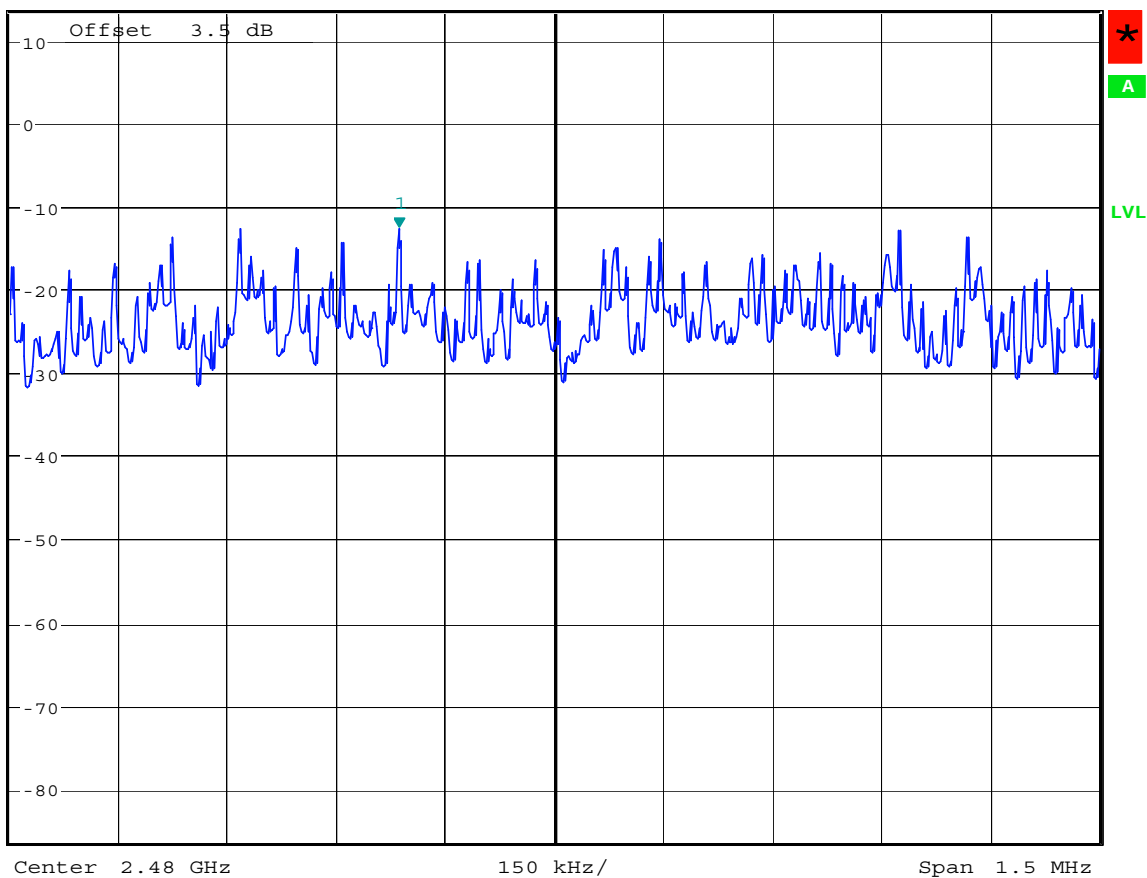


* RBW 3 kHz
* VBW 100 kHz
* SWT 500 s

Marker 1 [T1]
-12.67 dBm
2.479786058 GHz

Ref 13.5 dBm
* Att 5 dB

1 PK
MAXH



Power density 2480 MHz

Date: 28.JUN.2006 16:59:48

Appendix F

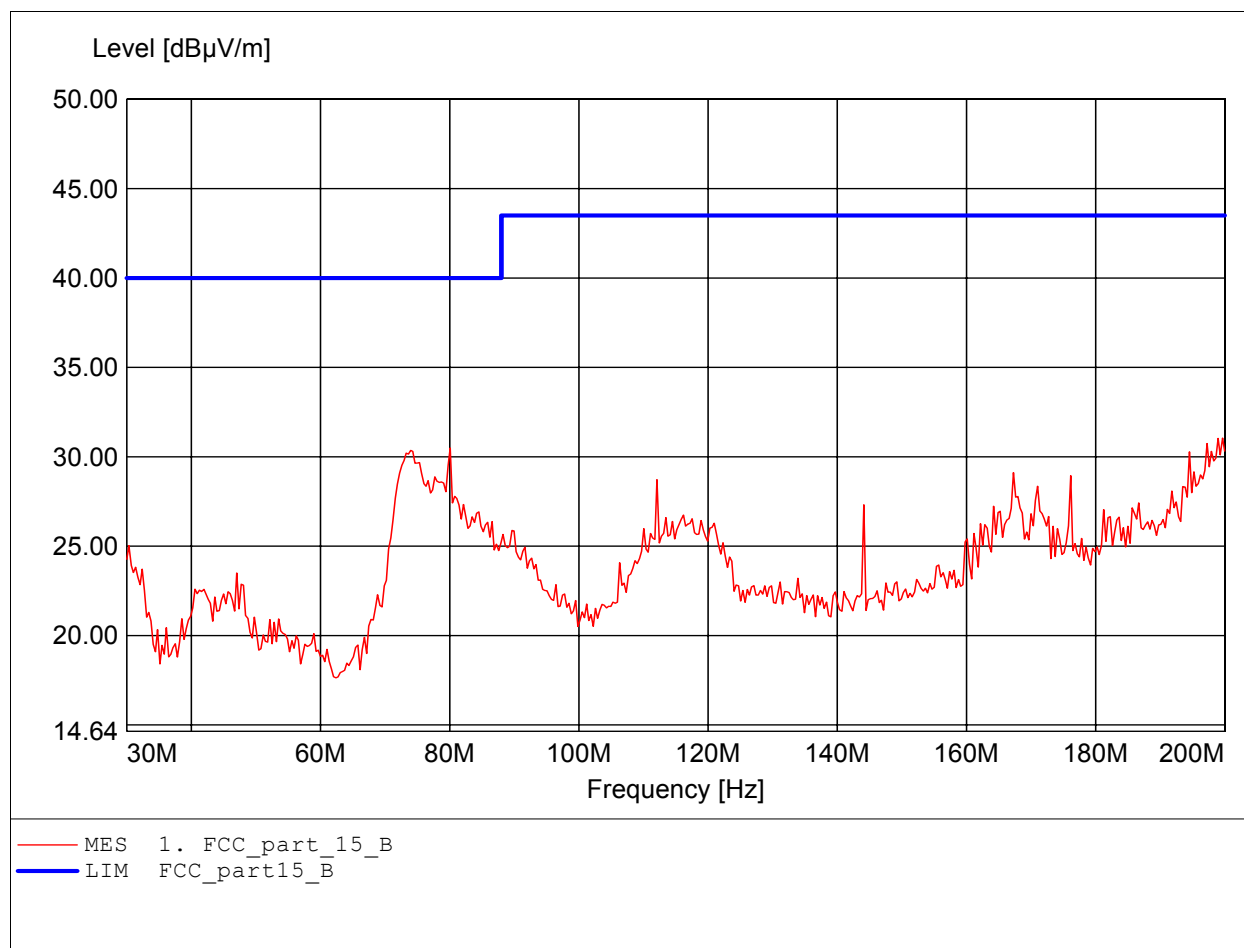
Radiated Emissions from Receiver Section of Transceiver

The measurement diagrams plots attached below are preliminary wideband scan with a peak detector for reference only.

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

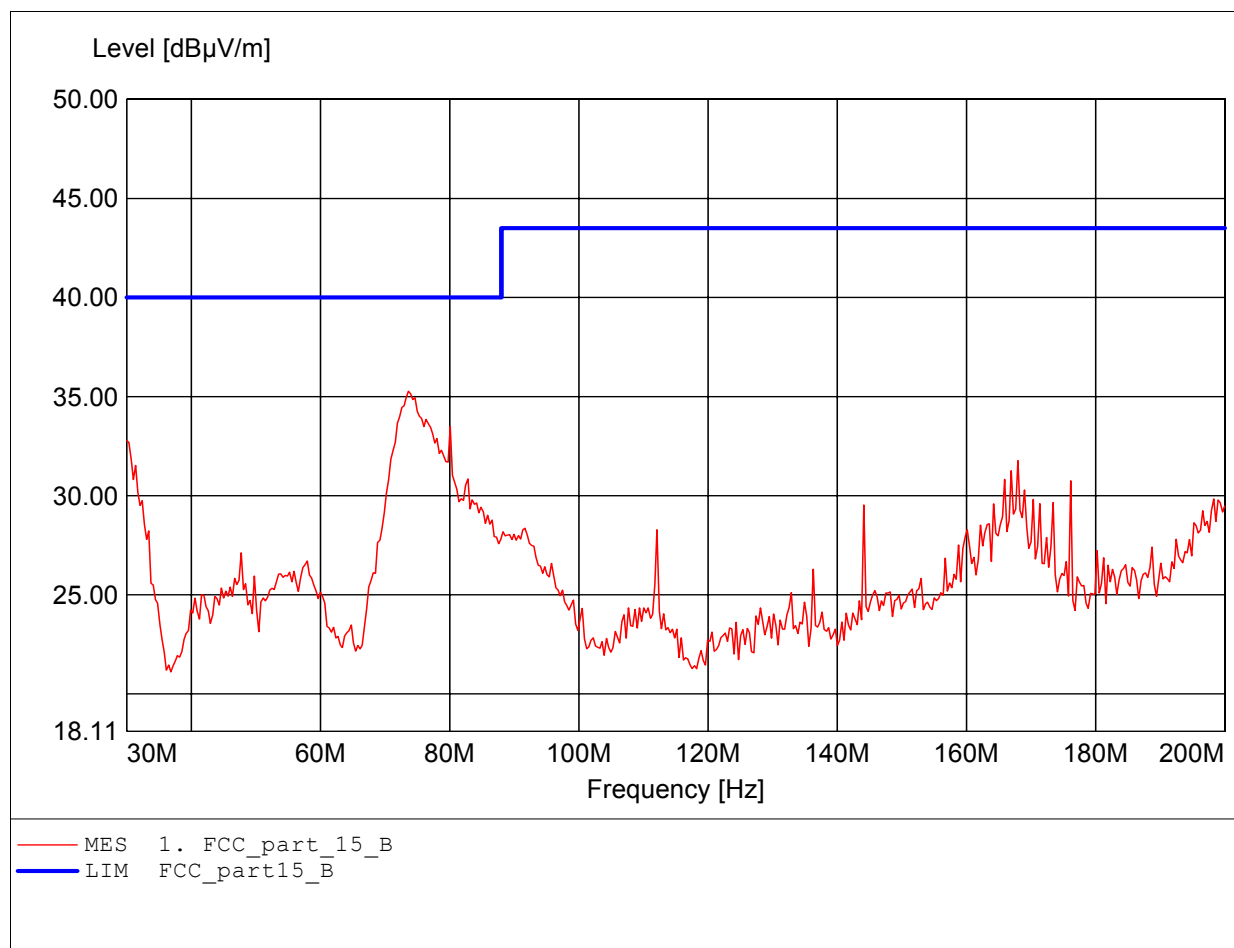
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:199.659MHz Emax:31.04dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

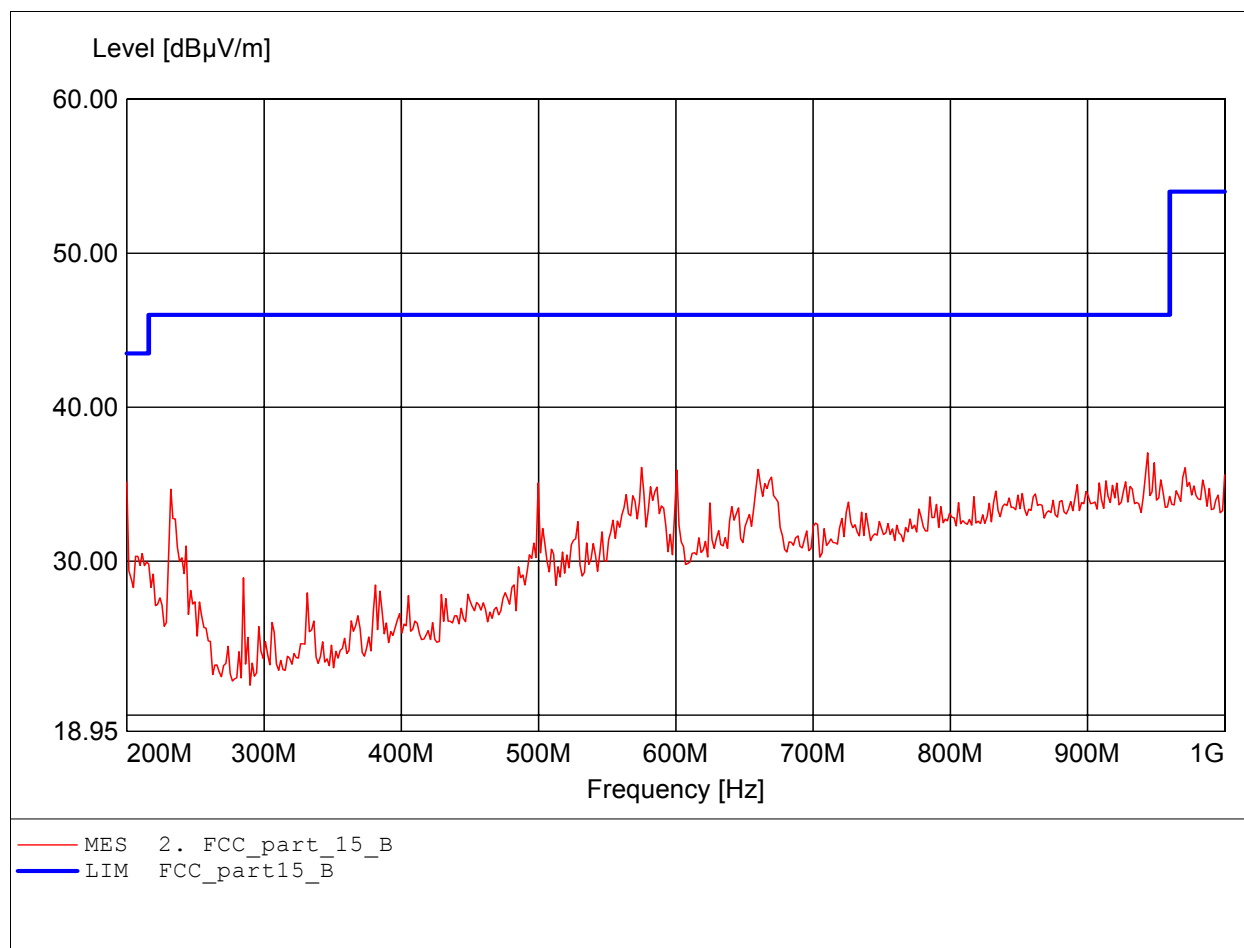
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:73.607MHz Emax:35.27dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

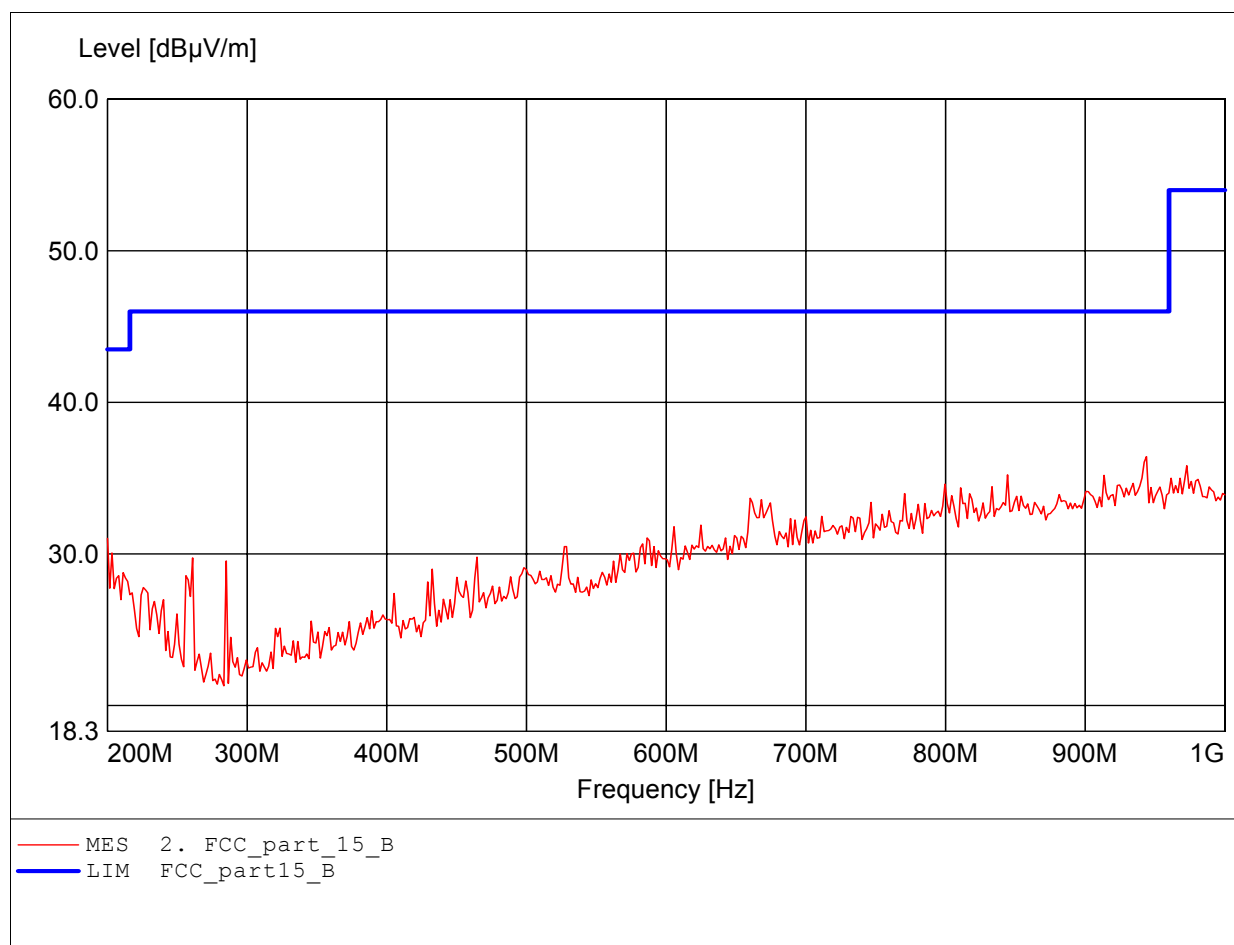
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Freq:943.888MHz Emax:37.03dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

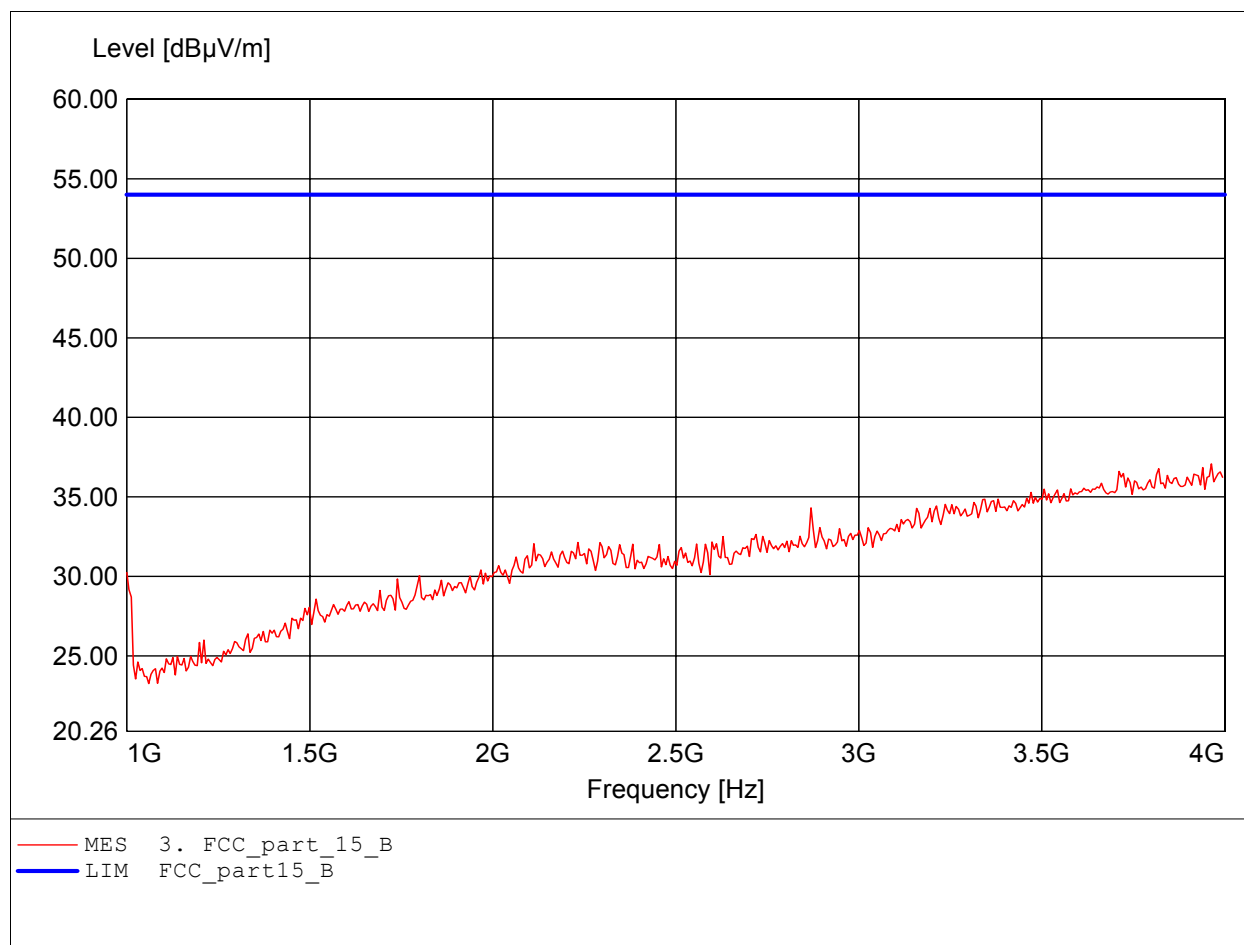
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Freq:943.888MHz Emax:36.42dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

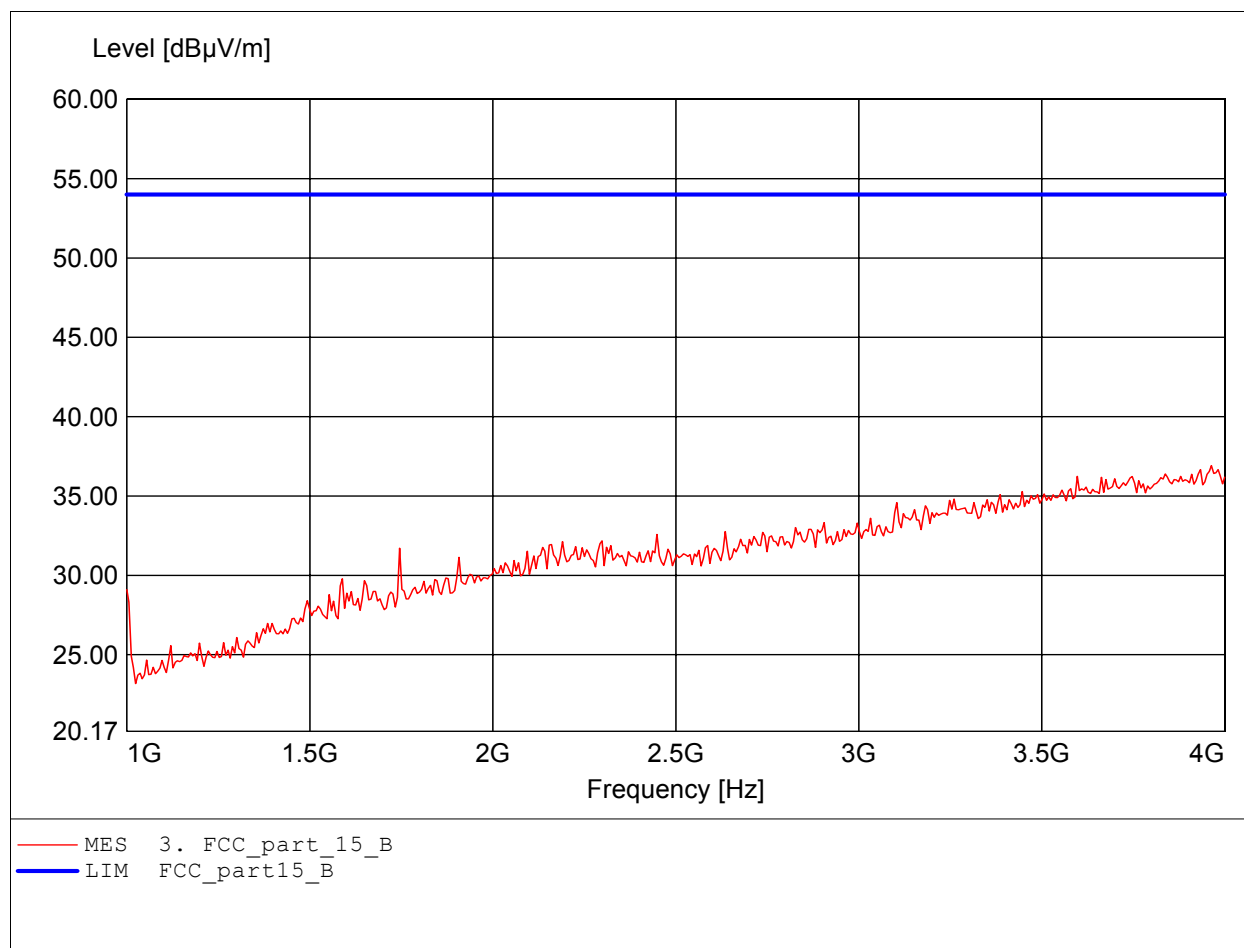
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:3.964GHz Emax:37.07dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

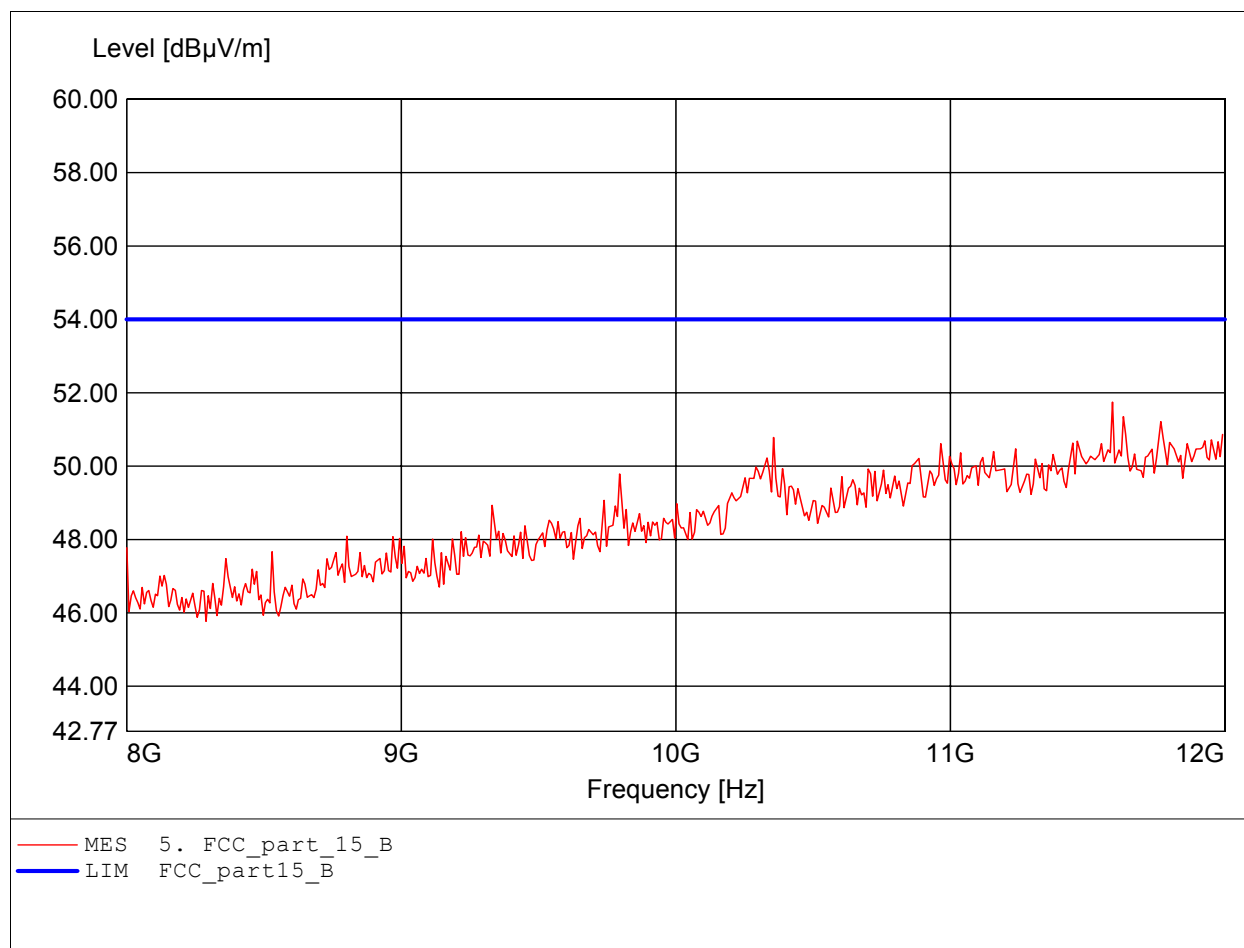
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:3.964GHz Emax:36.92dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

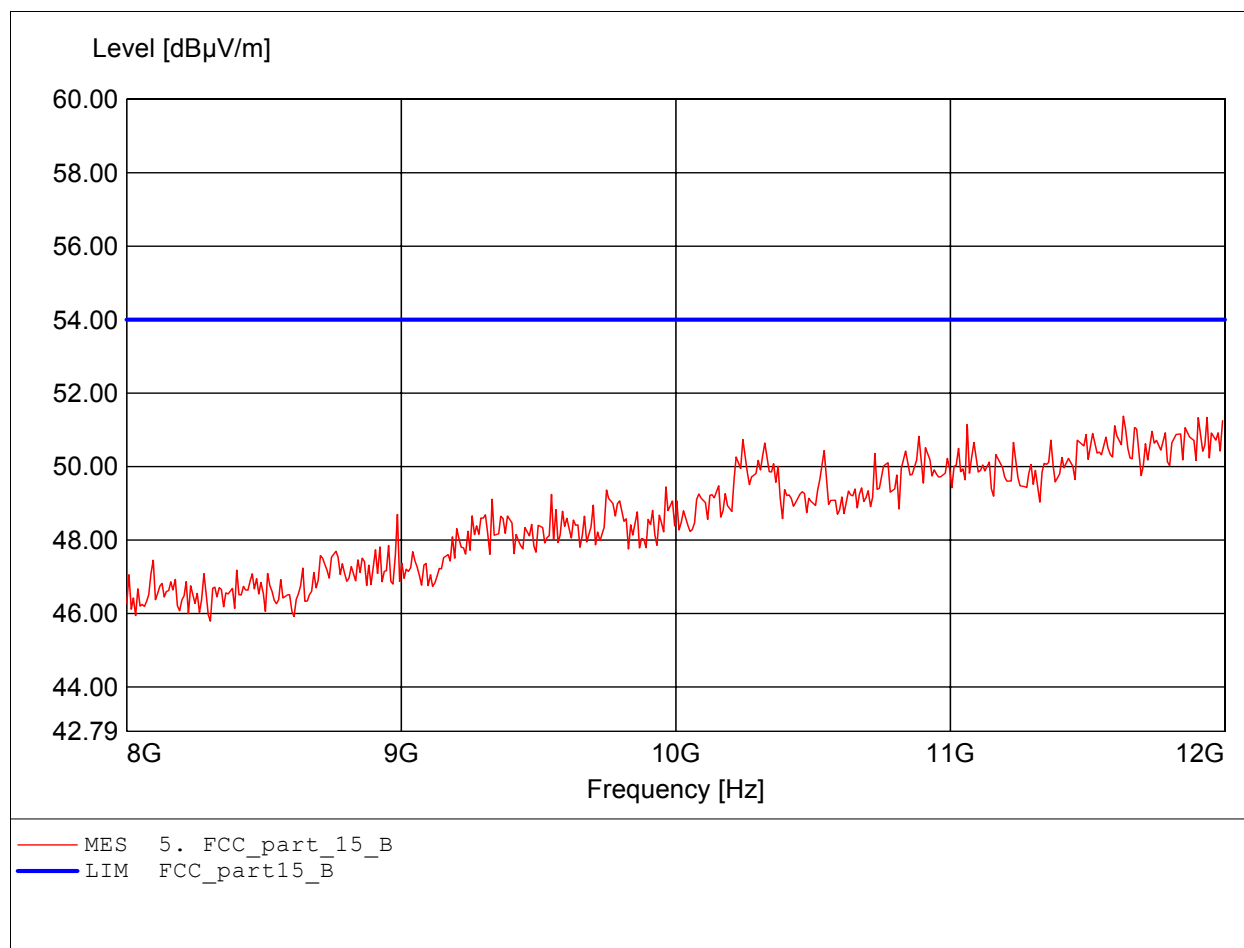
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:11.591GHz Emax:51.75dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

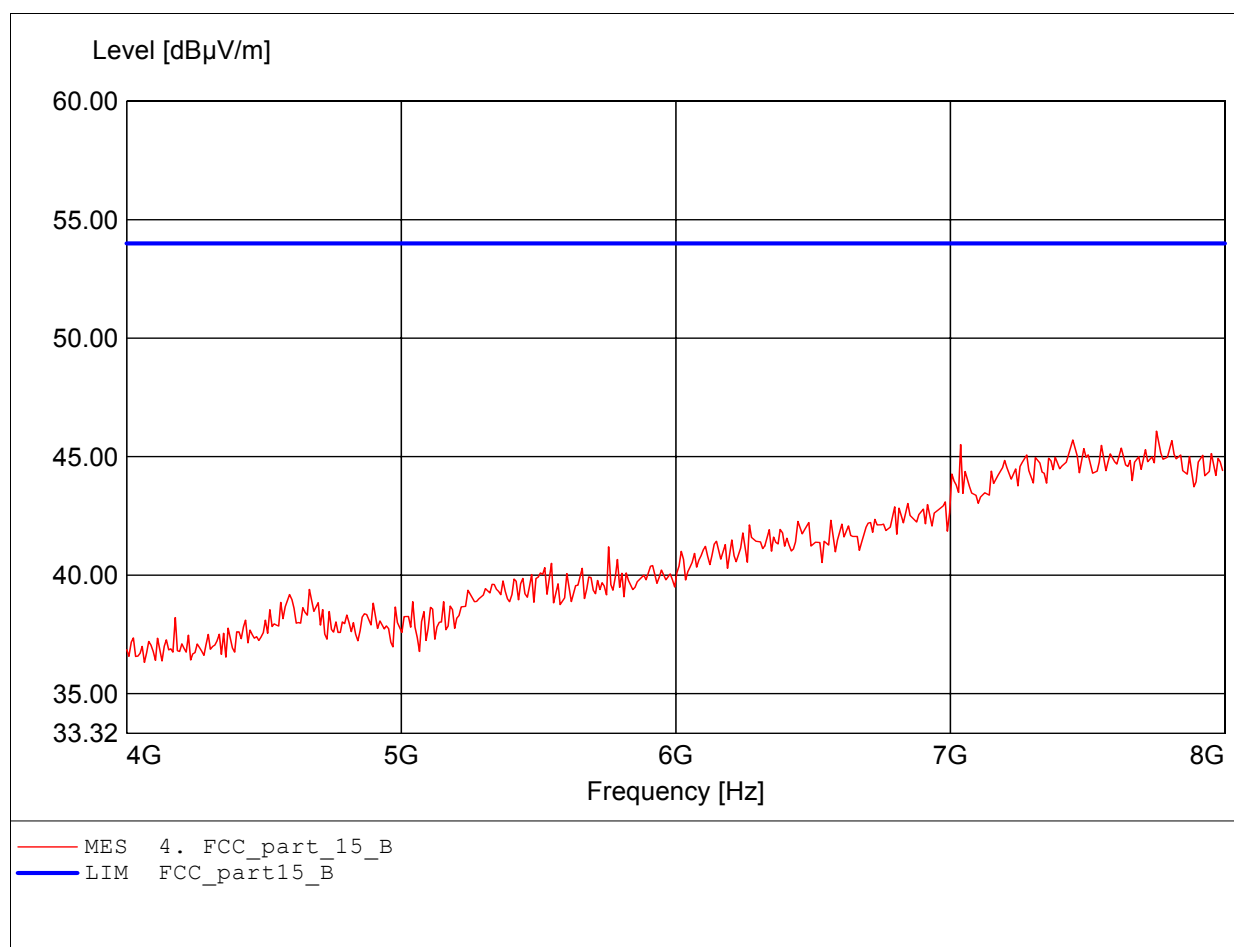
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:11.631GHz Emax:51.37dBµV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

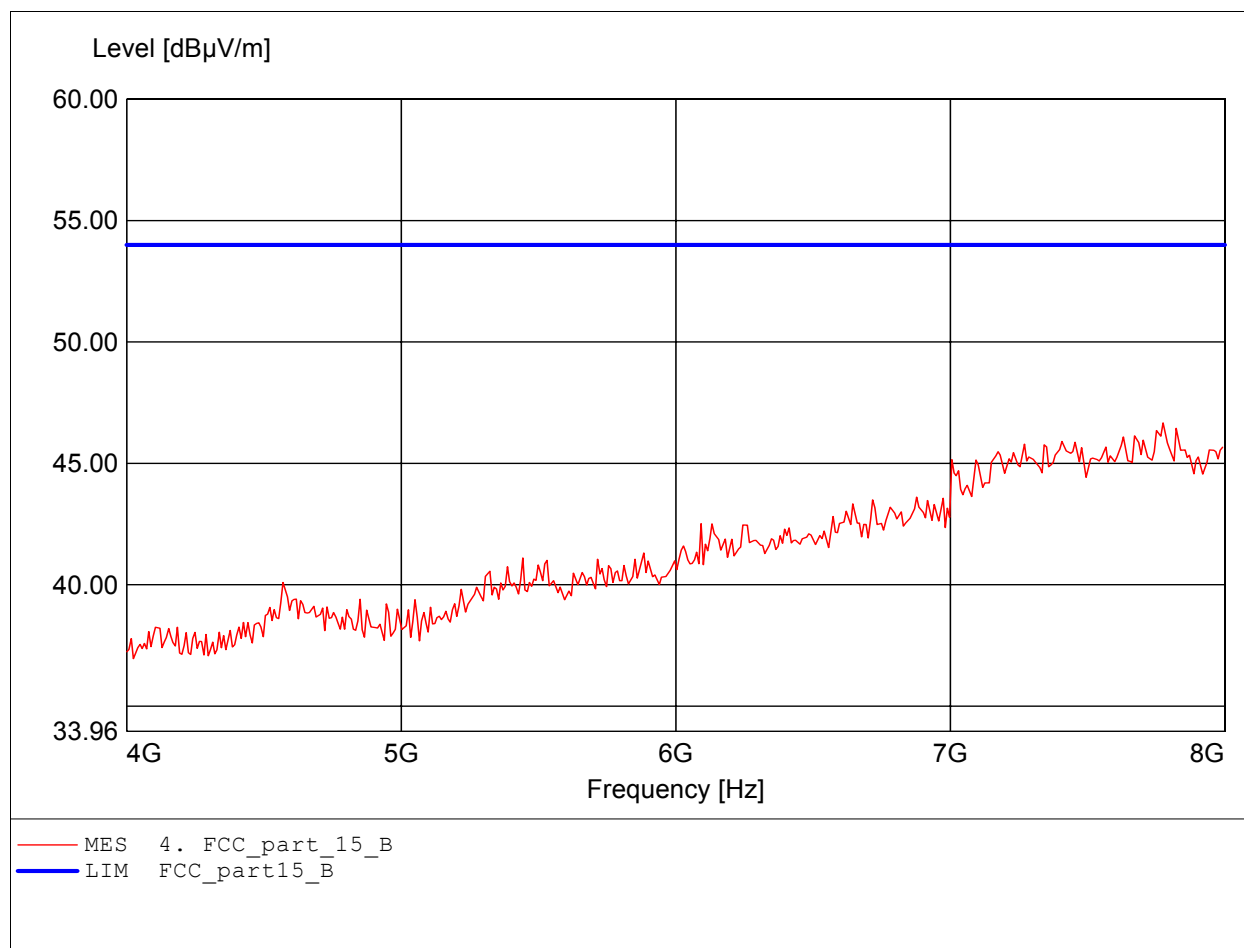
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:7.752GHz Emax:46.07dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

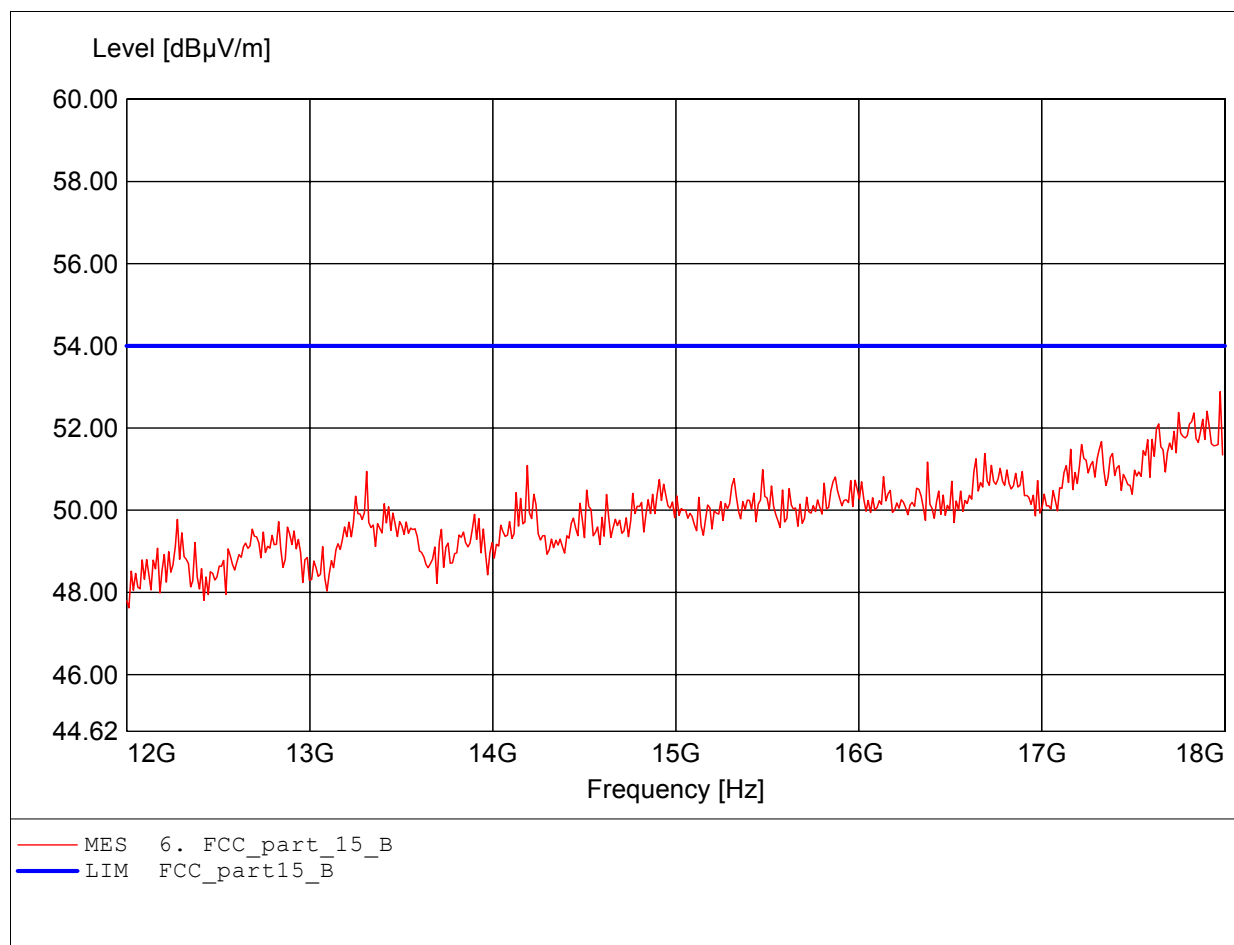
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:7.776GHz Emax:46.66dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

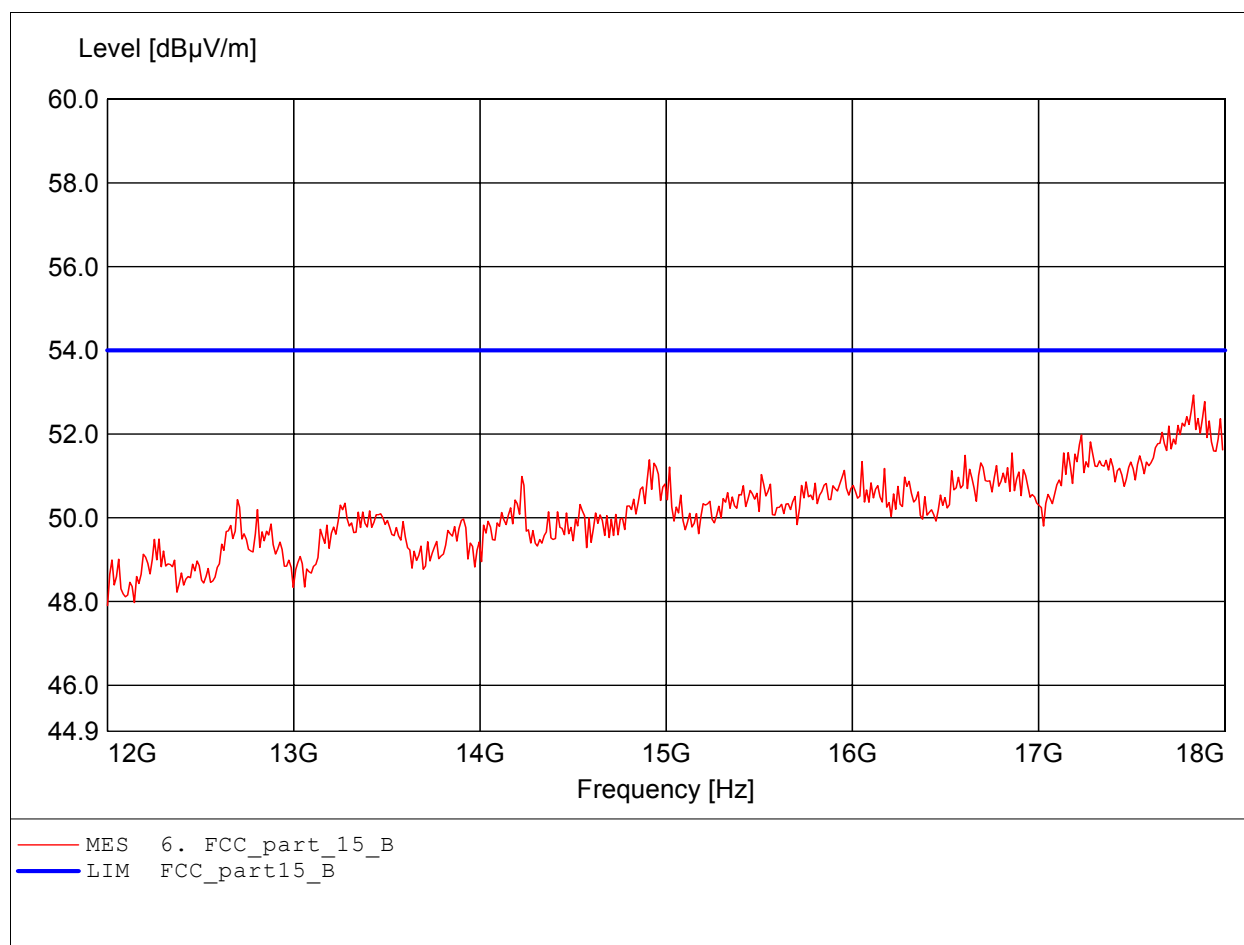
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:17.976GHz Emax:52.88dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

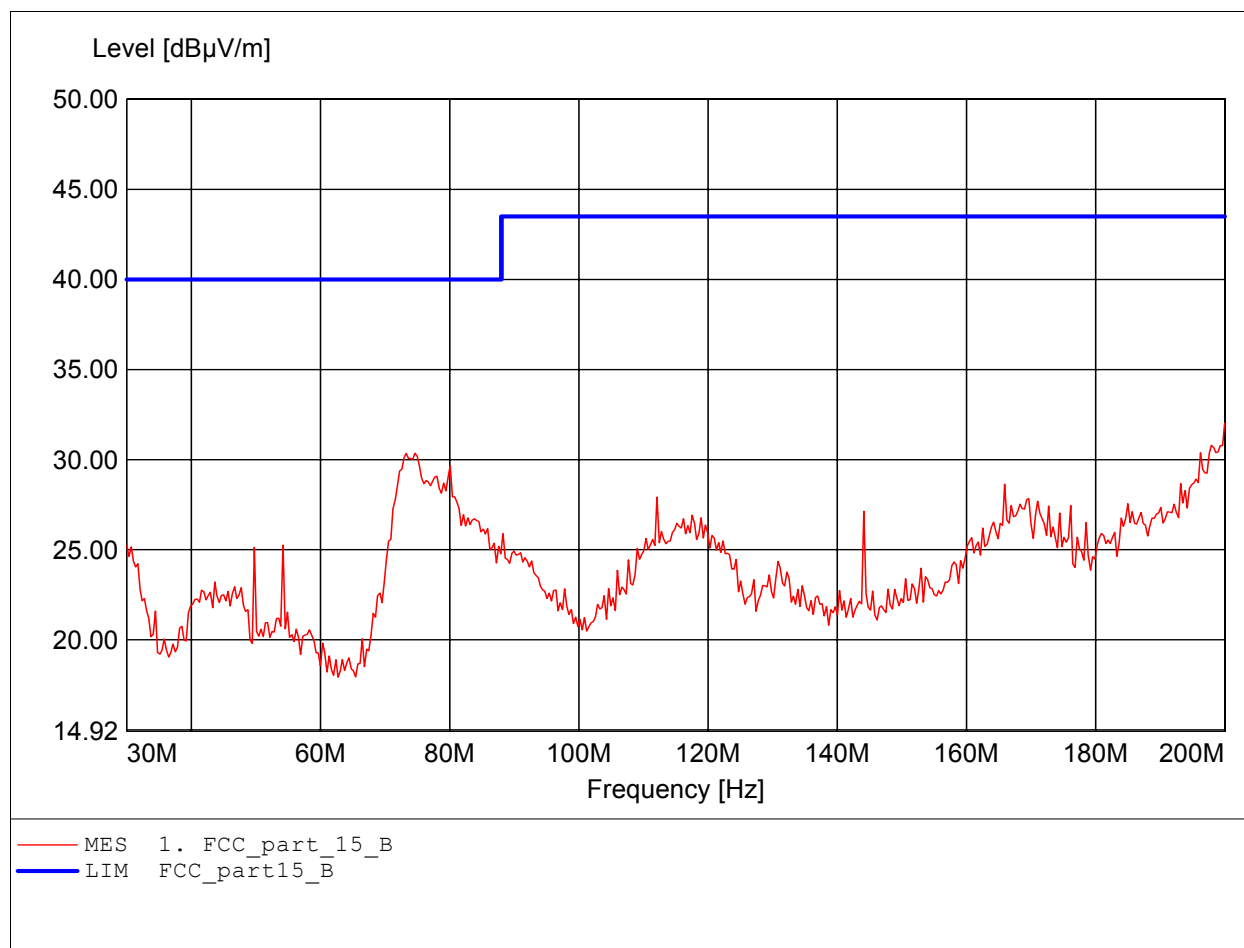
Order Number : W6M20606-7110 low channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:17.832GHz Emax:52.93dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

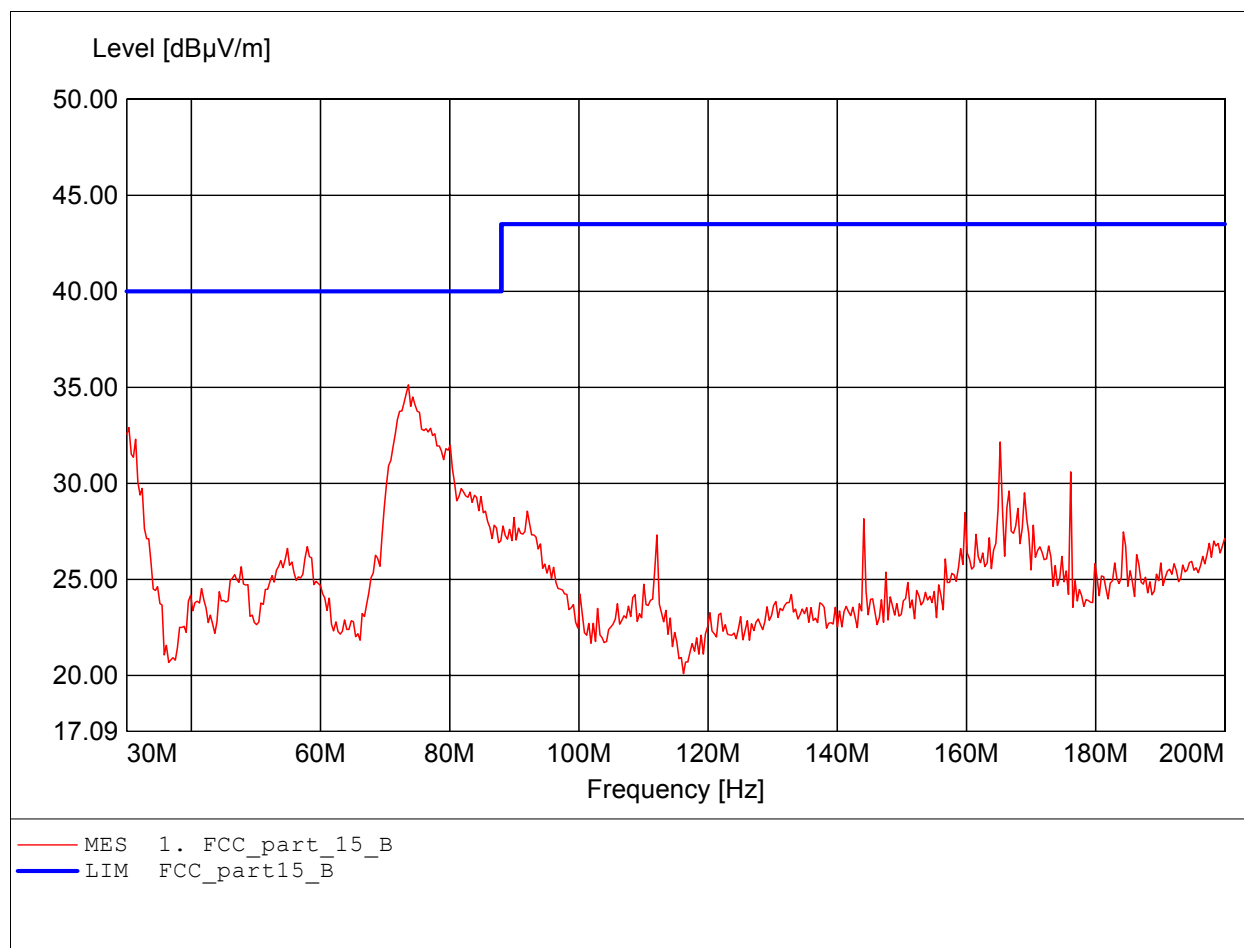
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:200.000MHz Emax:32.03dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

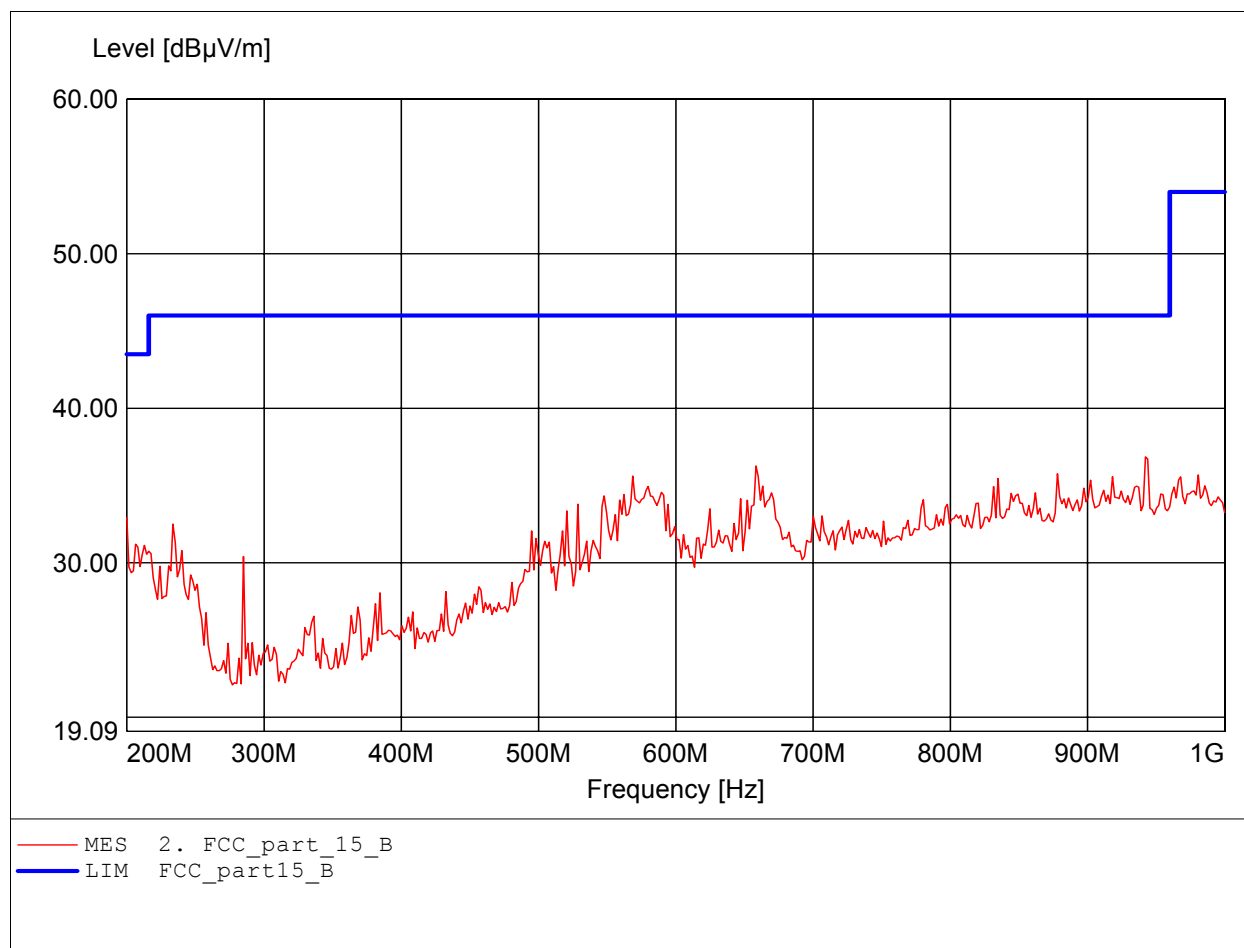
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:73.607MHz Emax:35.13dBµV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

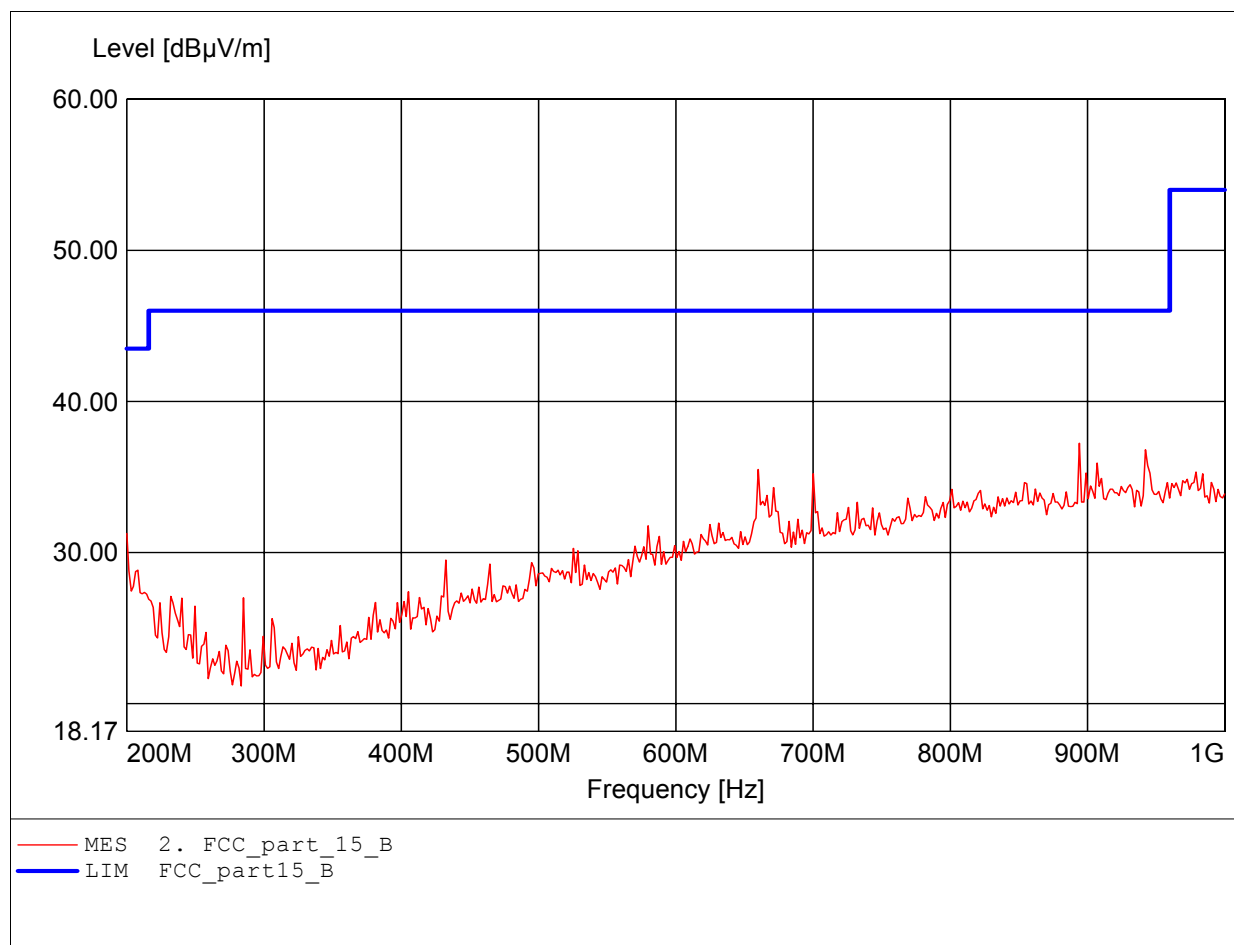
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Freq:942.285MHz Emax:36.86dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

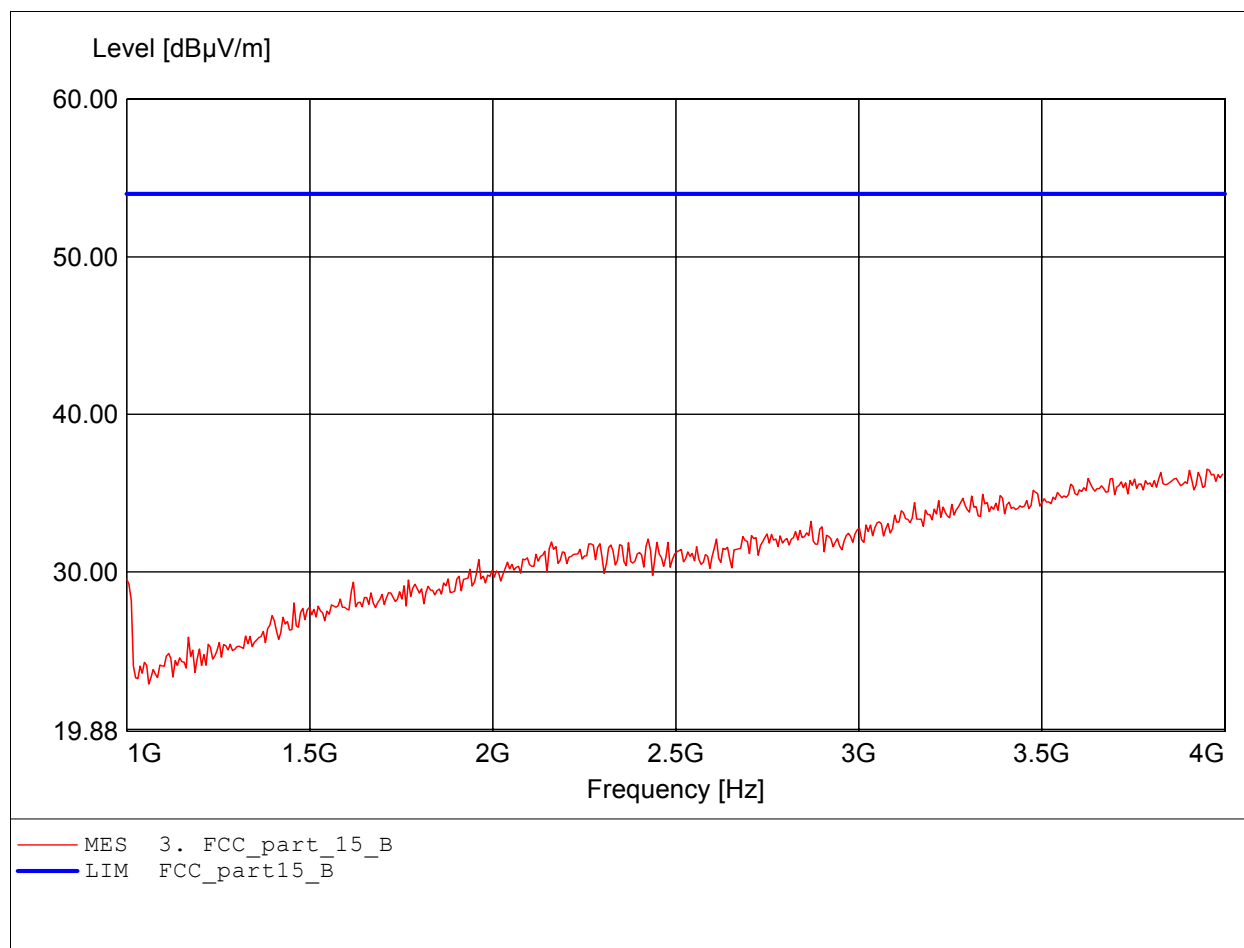
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Freq:894.188MHz Emax:37.23dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

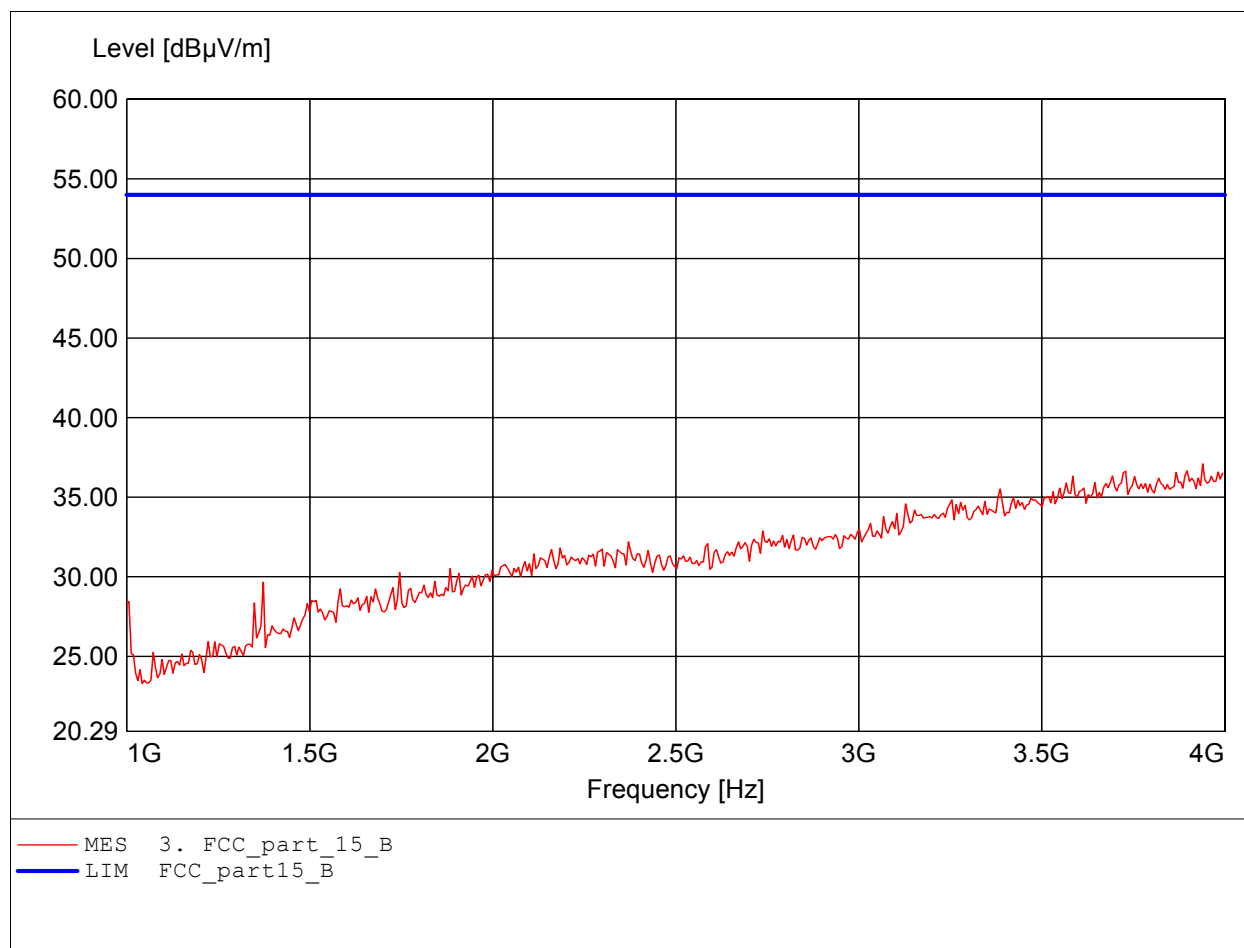
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:3.952GHz Emax:36.53dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

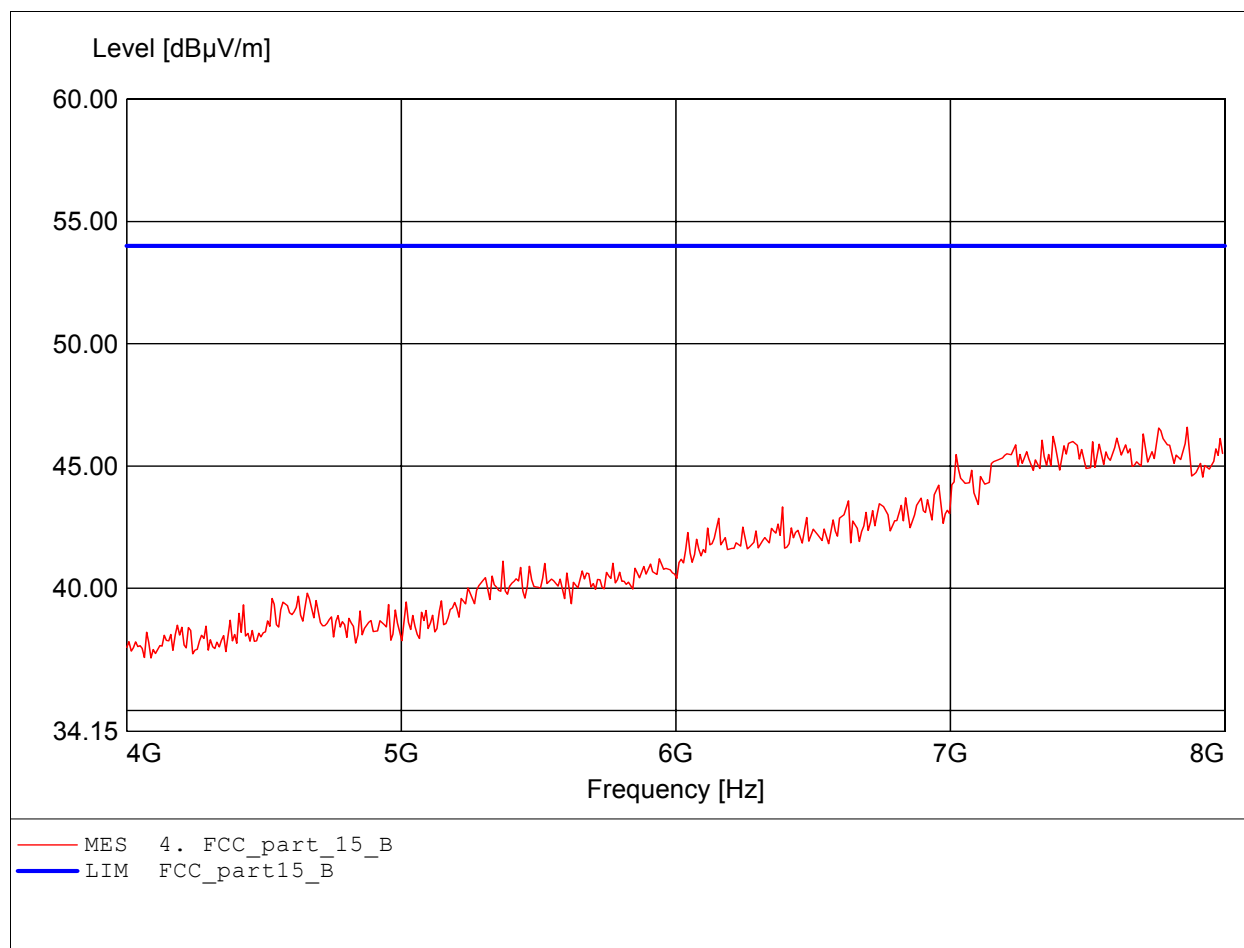
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:3.940GHz Emax:37.09dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

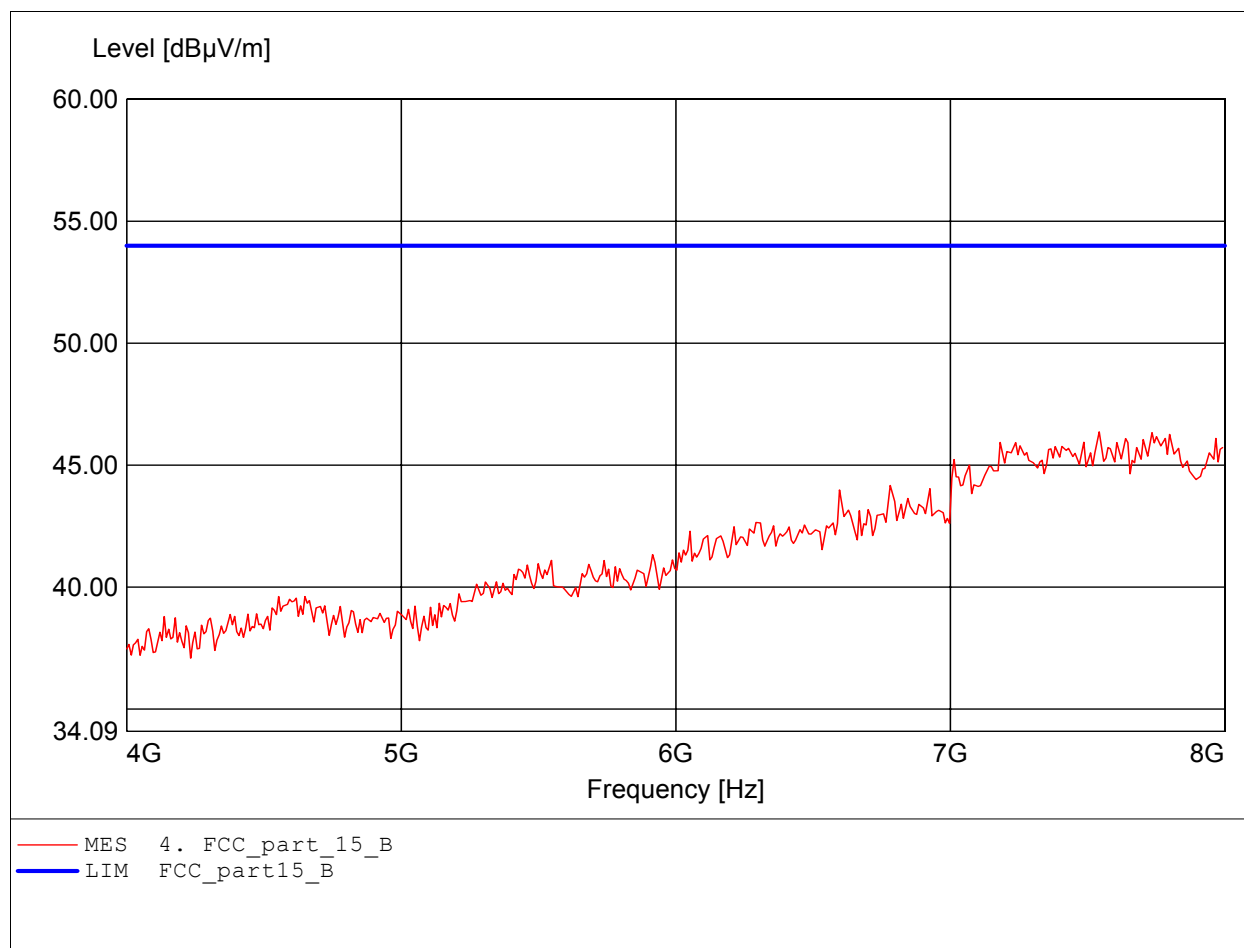
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:7.864GHz Emax:46.59dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

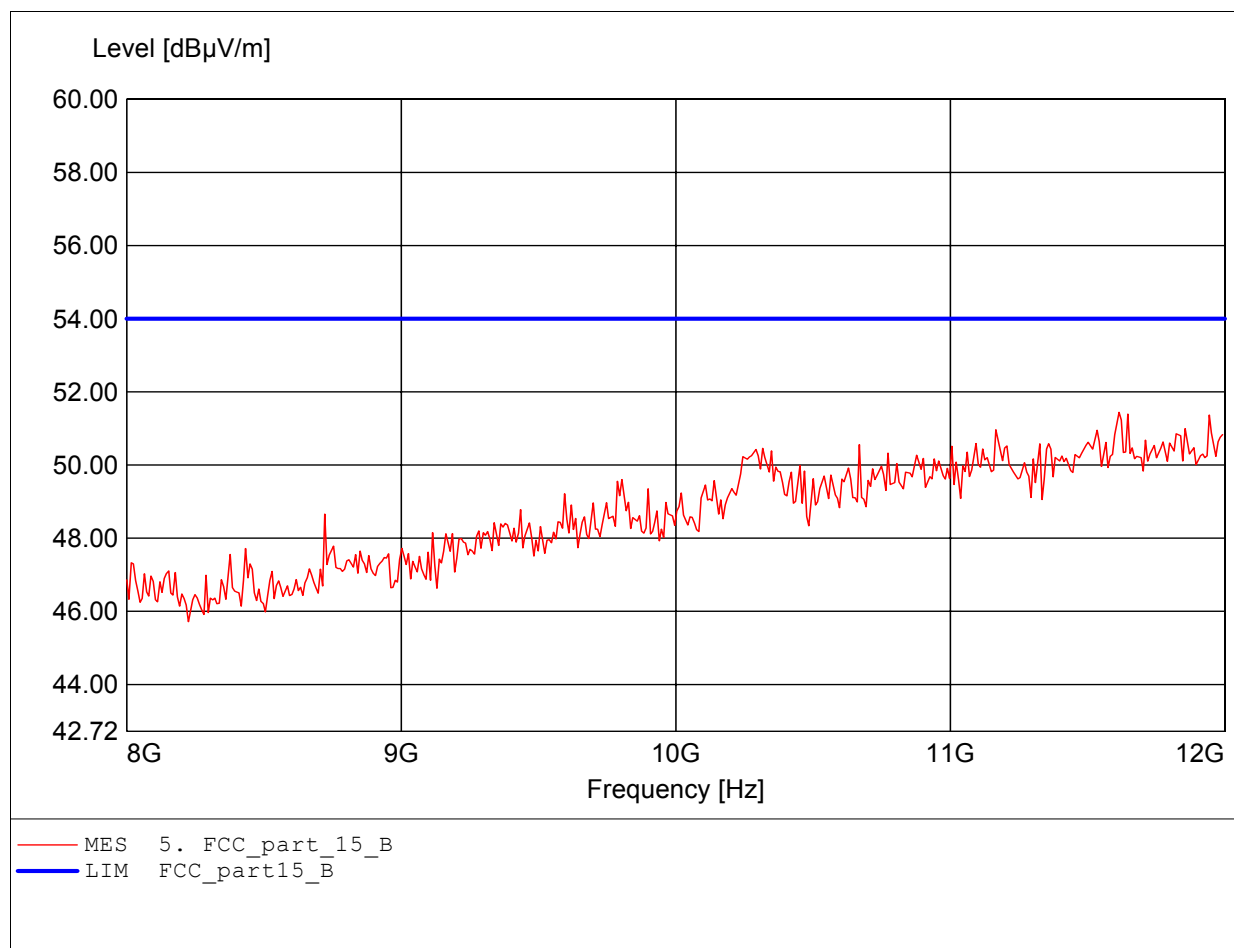
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:7.543GHz Emax:46.37dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

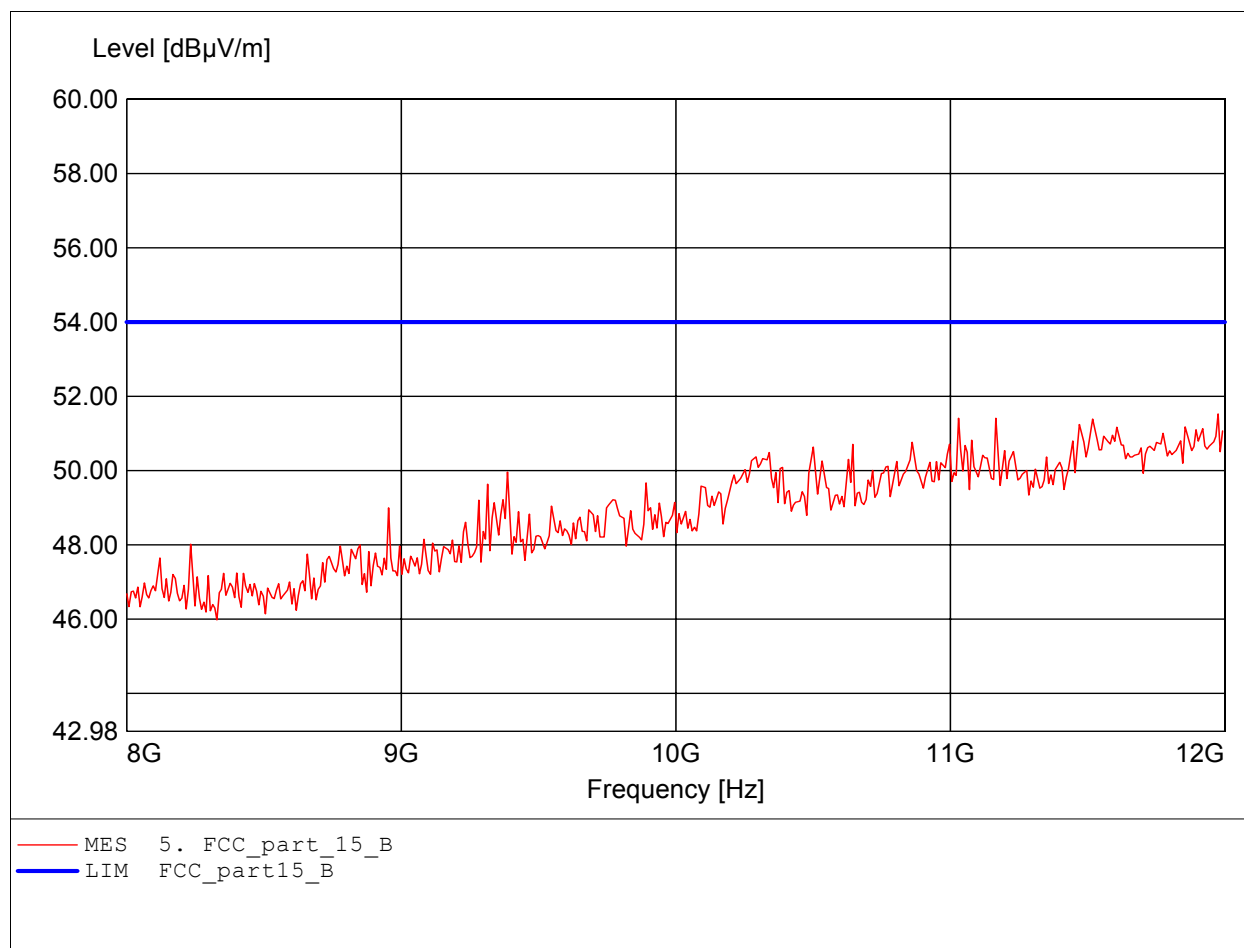
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:11.615GHz Emax:51.44dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

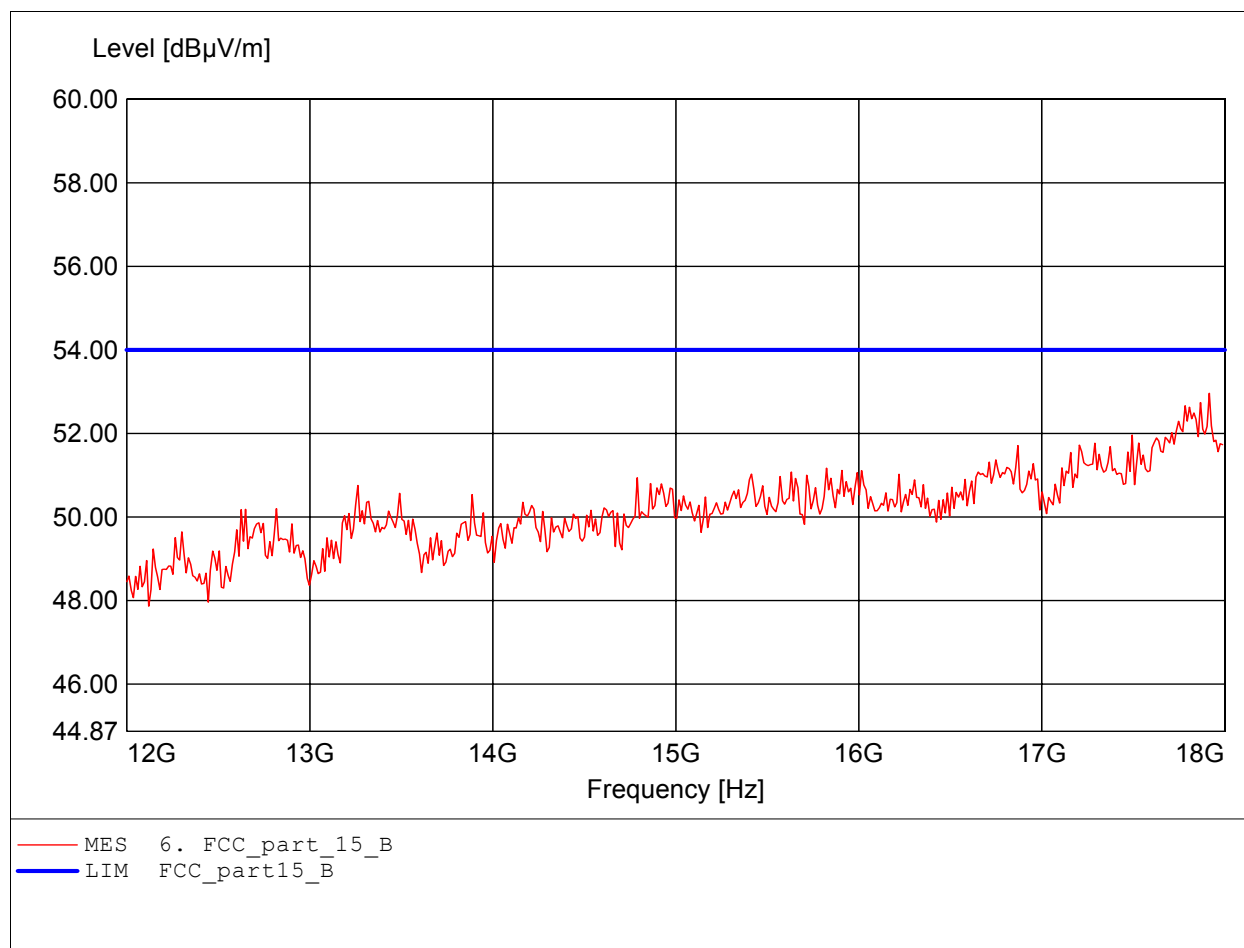
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:11.976GHz Emax:51.53dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

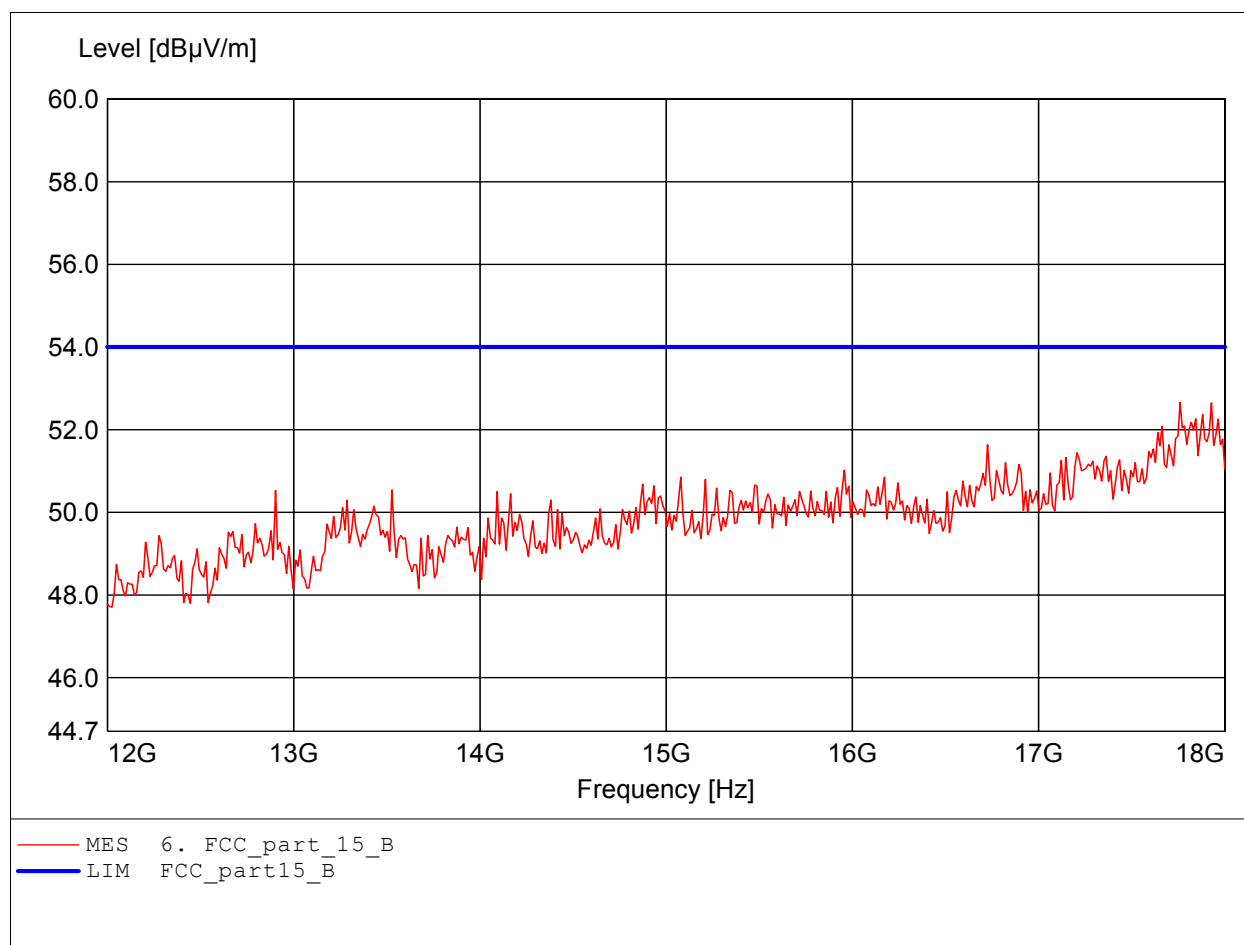
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:17.916GHz Emax:52.96dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

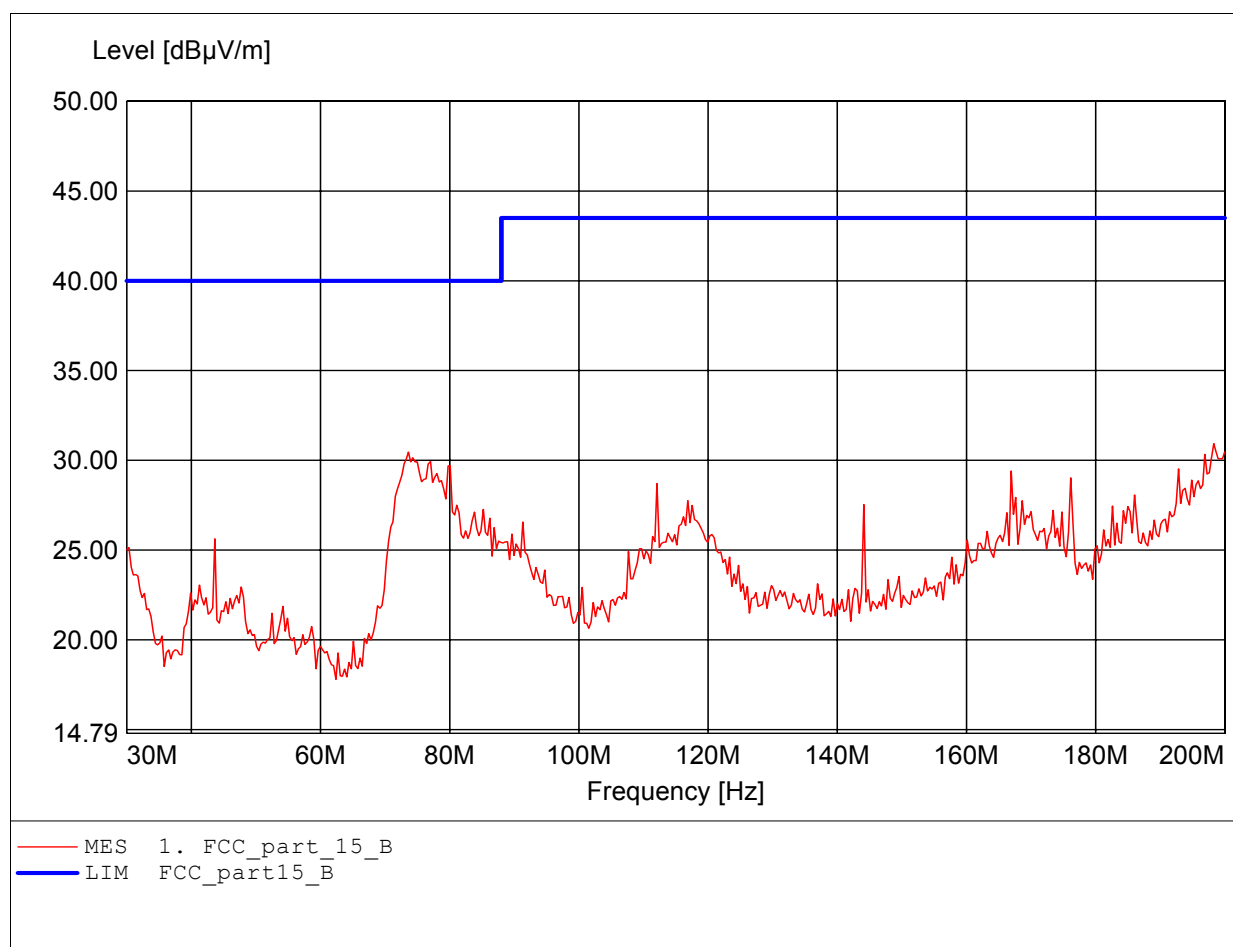
Order Number : W6M20606-7110 middle channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:17.760GHz Emax:52.66dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

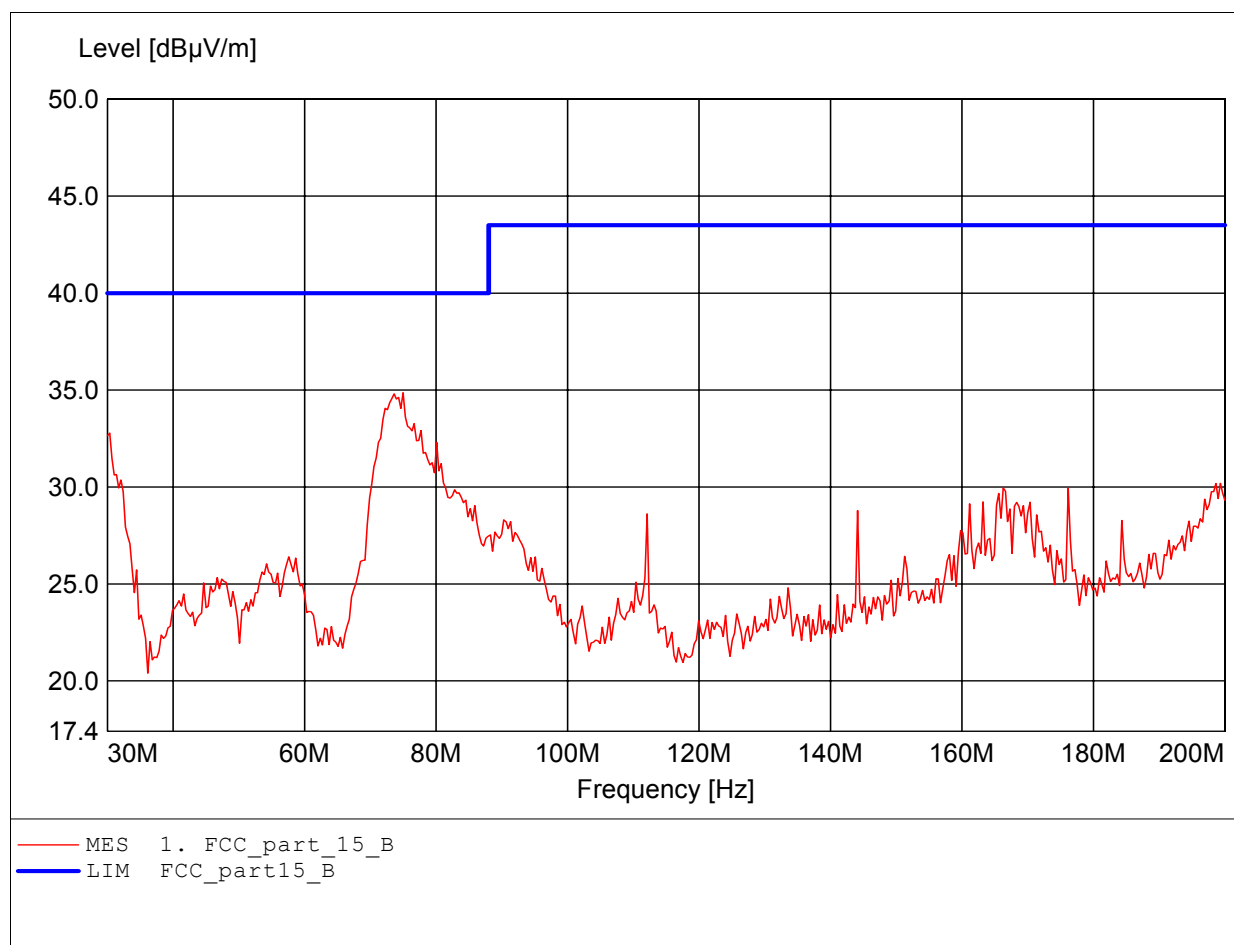
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:198.297MHz Emax:30.93dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

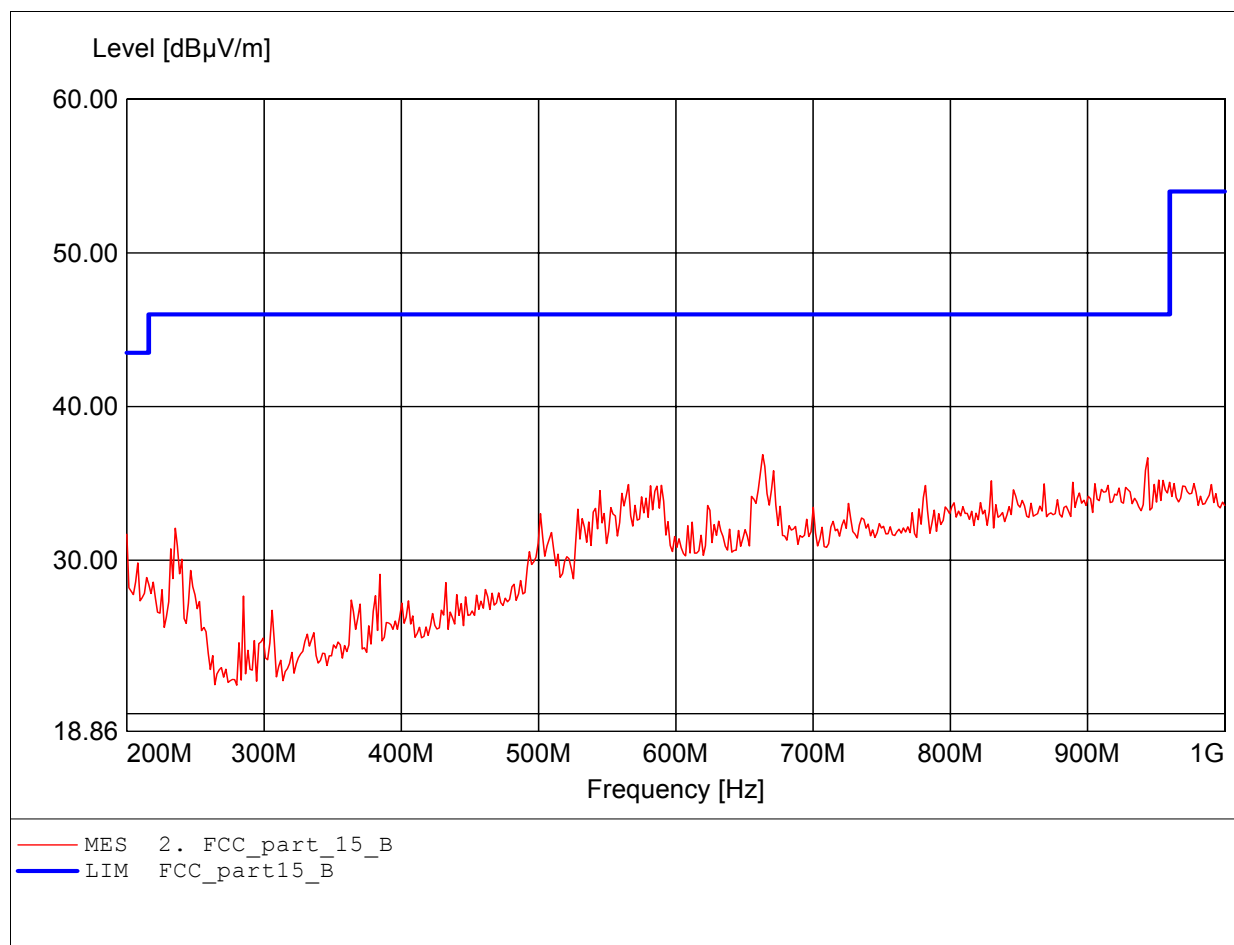
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:74.970MHz Emax:34.85dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

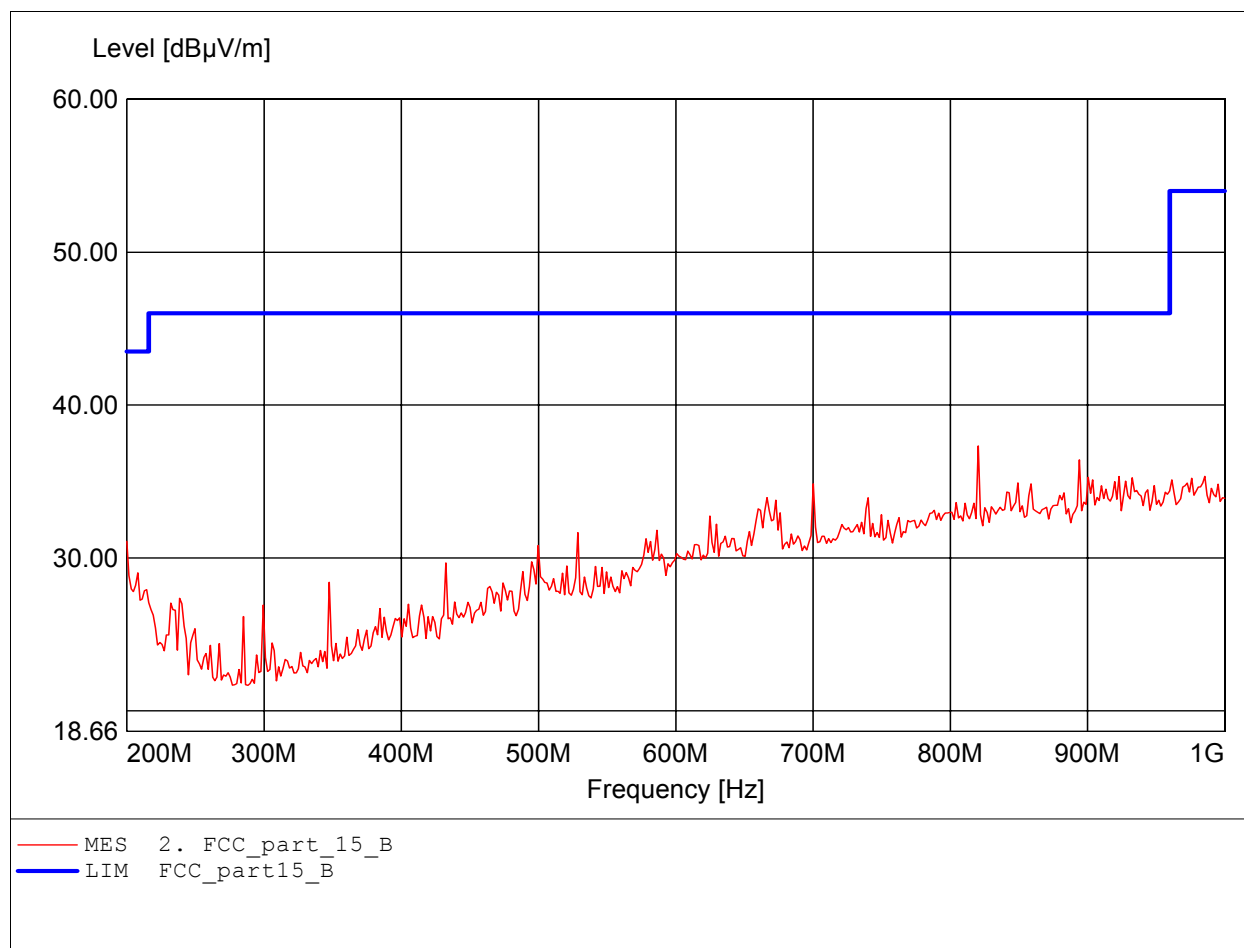
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Freq:663.327MHz Emax:36.88dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

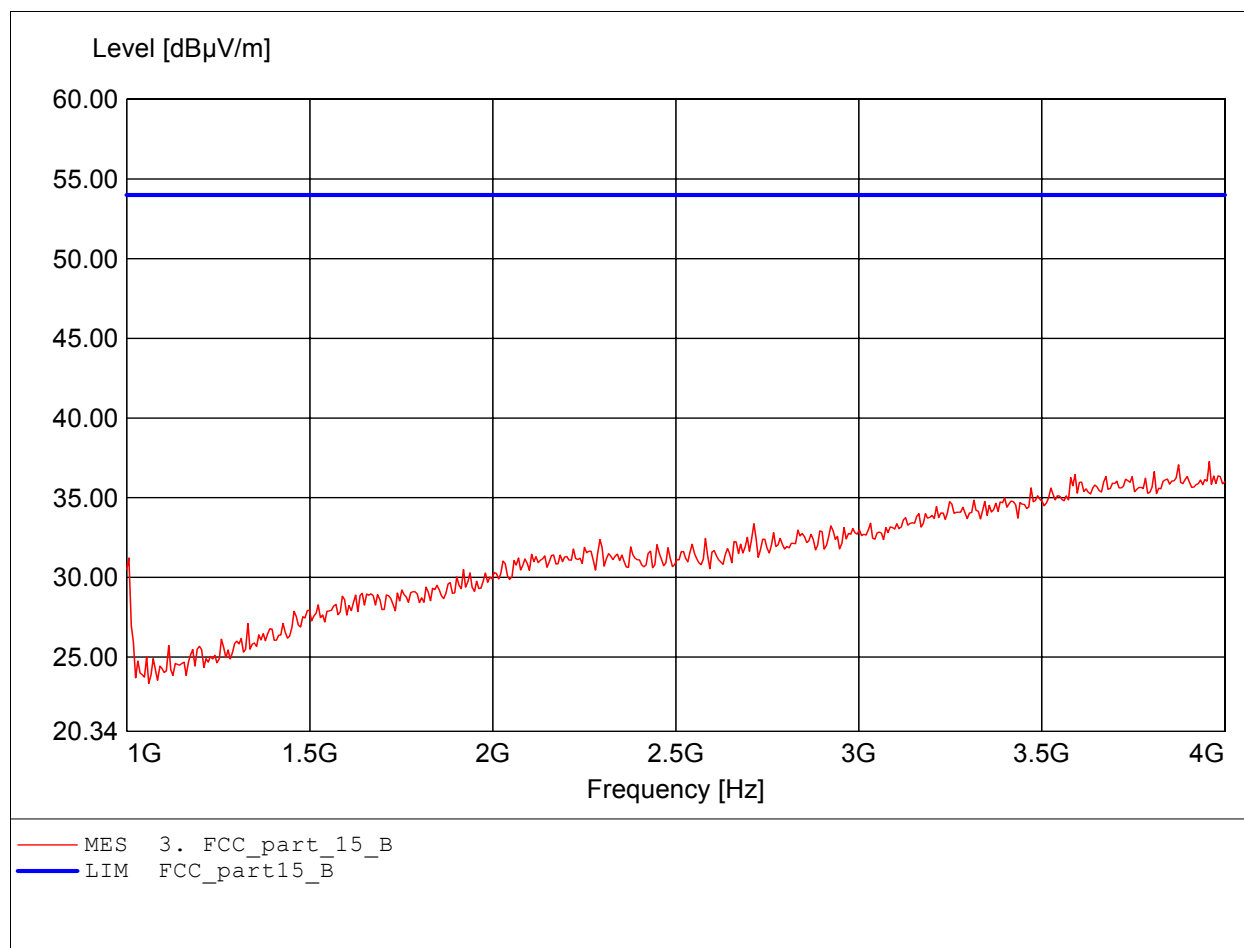
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Freq:820.441MHz Emax:37.33dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

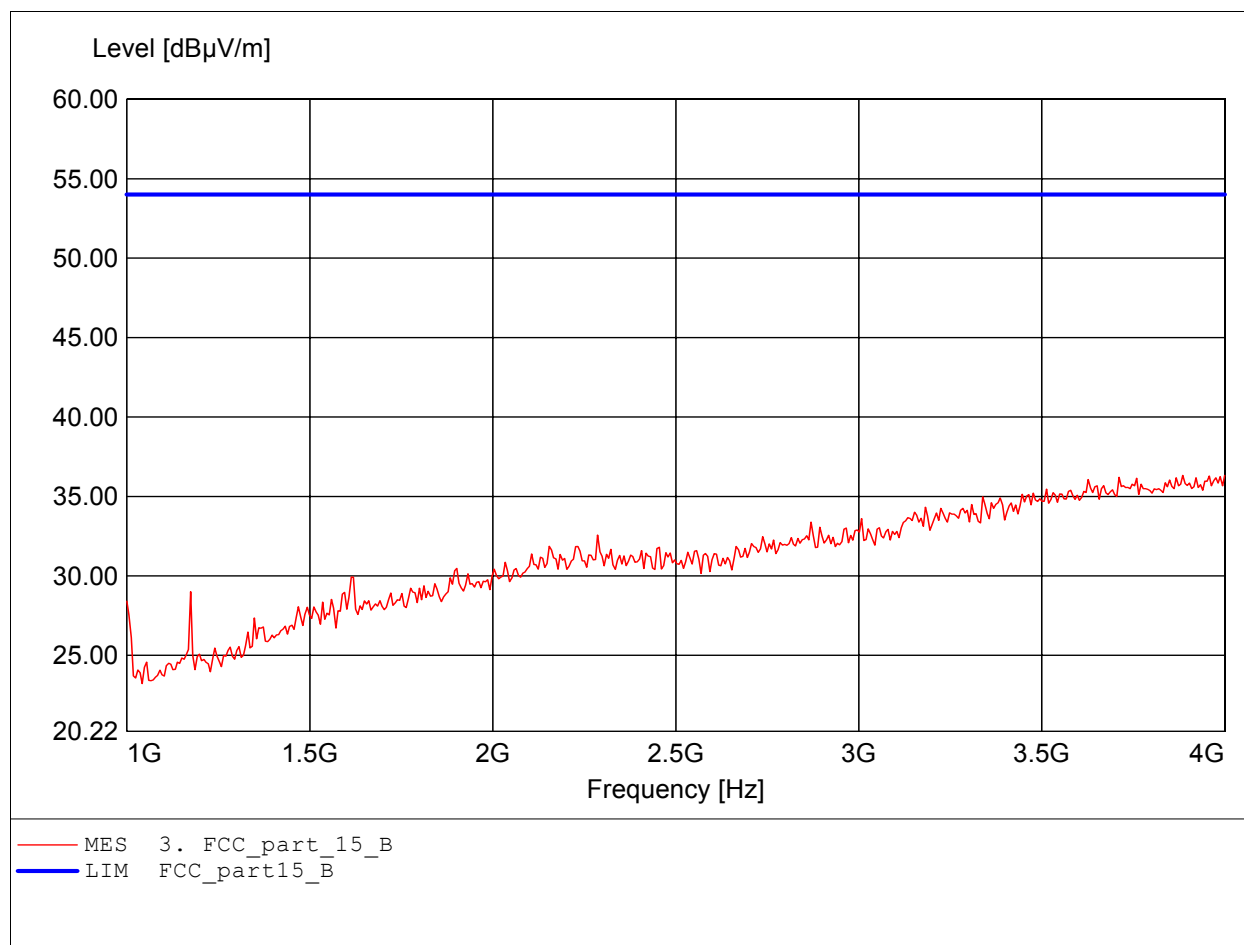
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:3.958GHz Emax:37.26dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

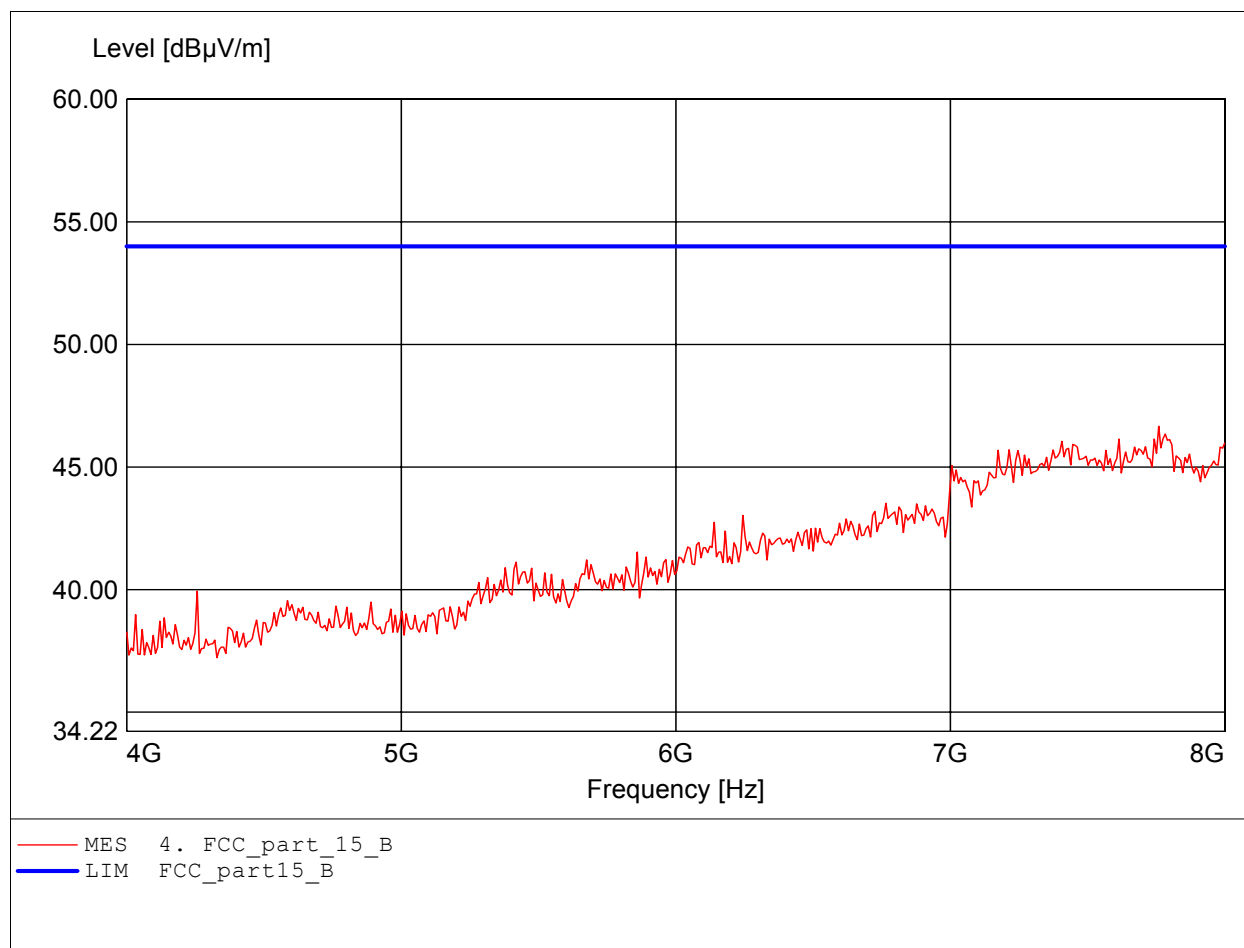
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:4.000GHz Emax:36.33dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

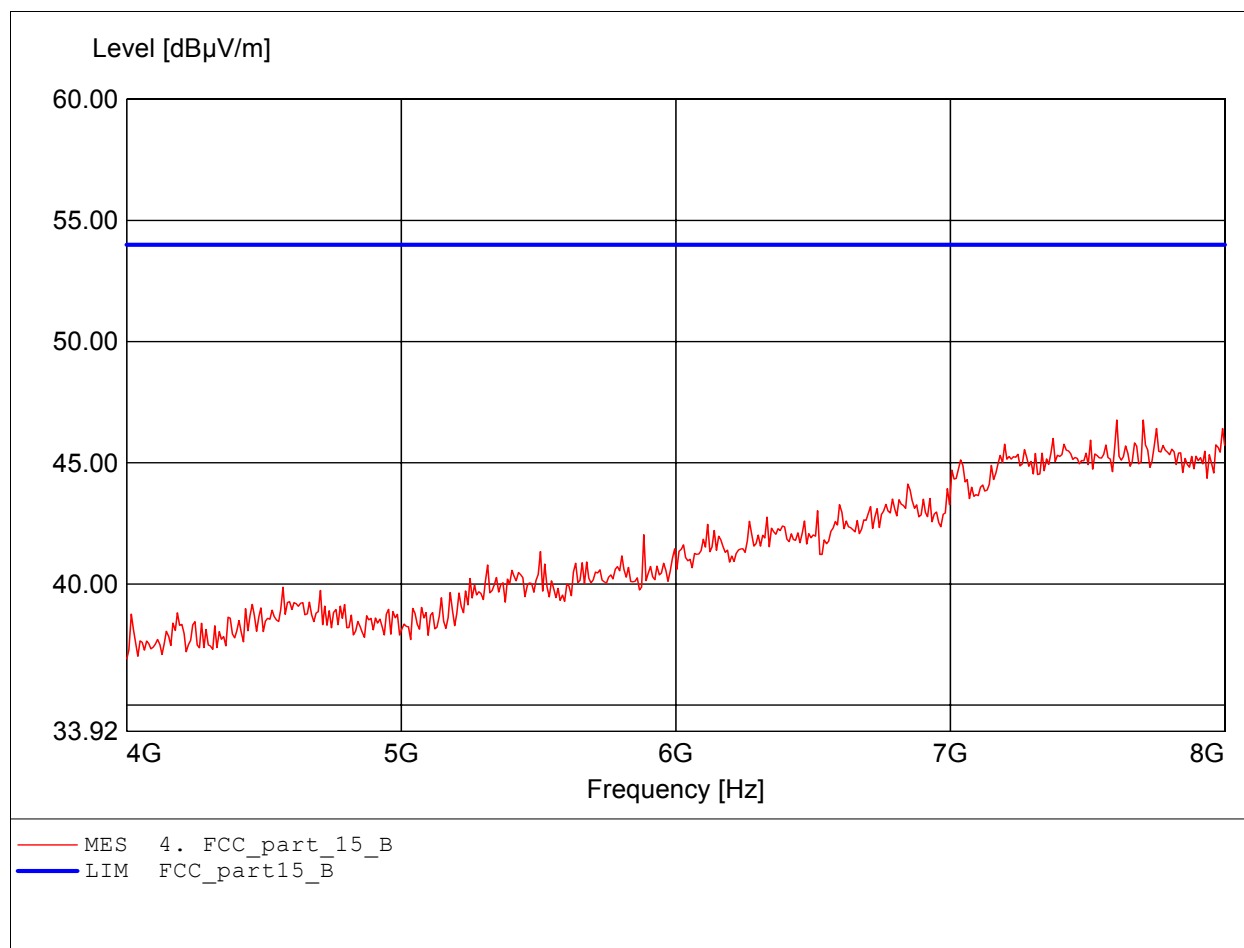
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:7.760GHz Emax:46.66dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

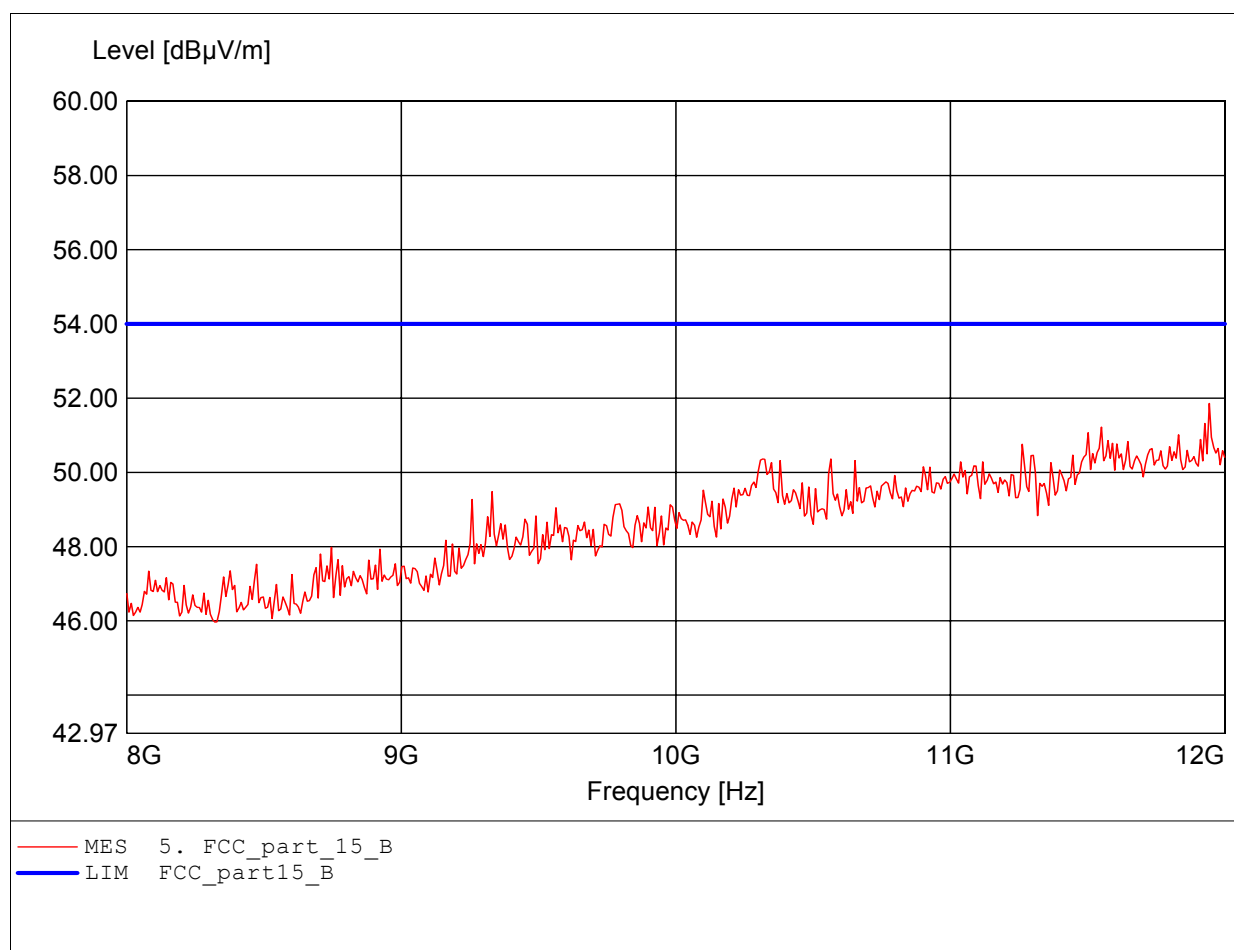
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:7.703GHz Emax:46.77dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

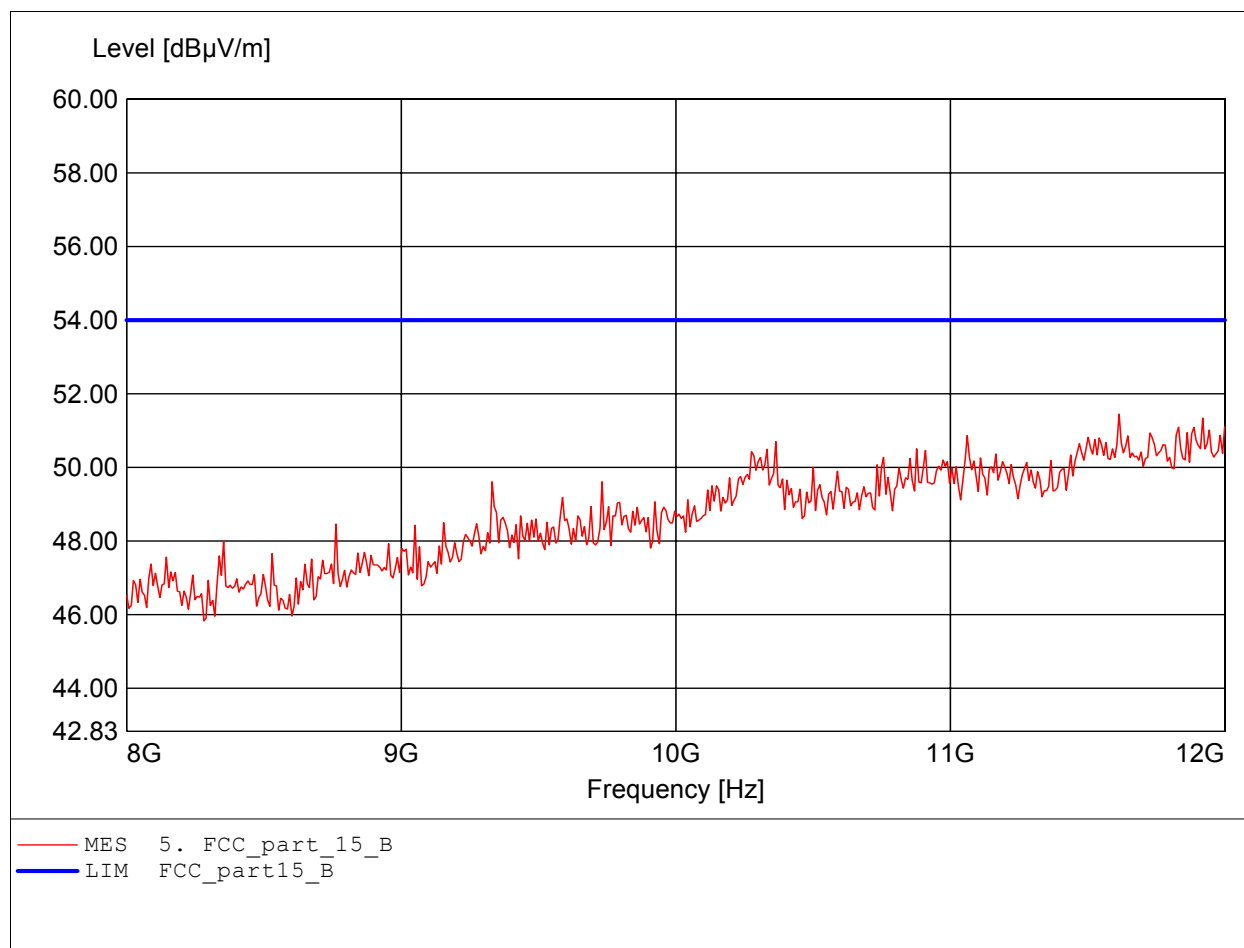
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:11.944GHz Emax:51.86dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

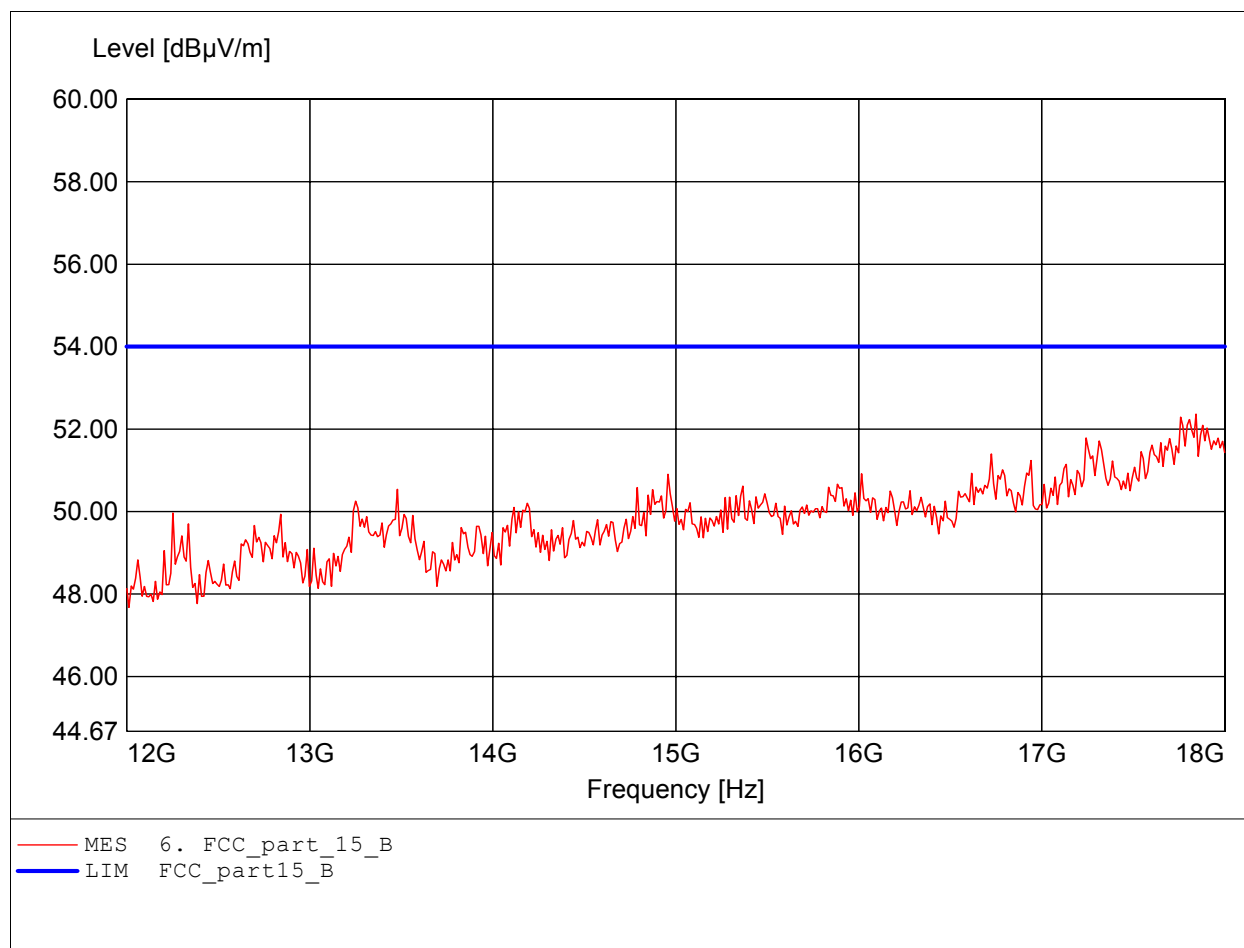
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:11.615GHz Emax:51.45dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

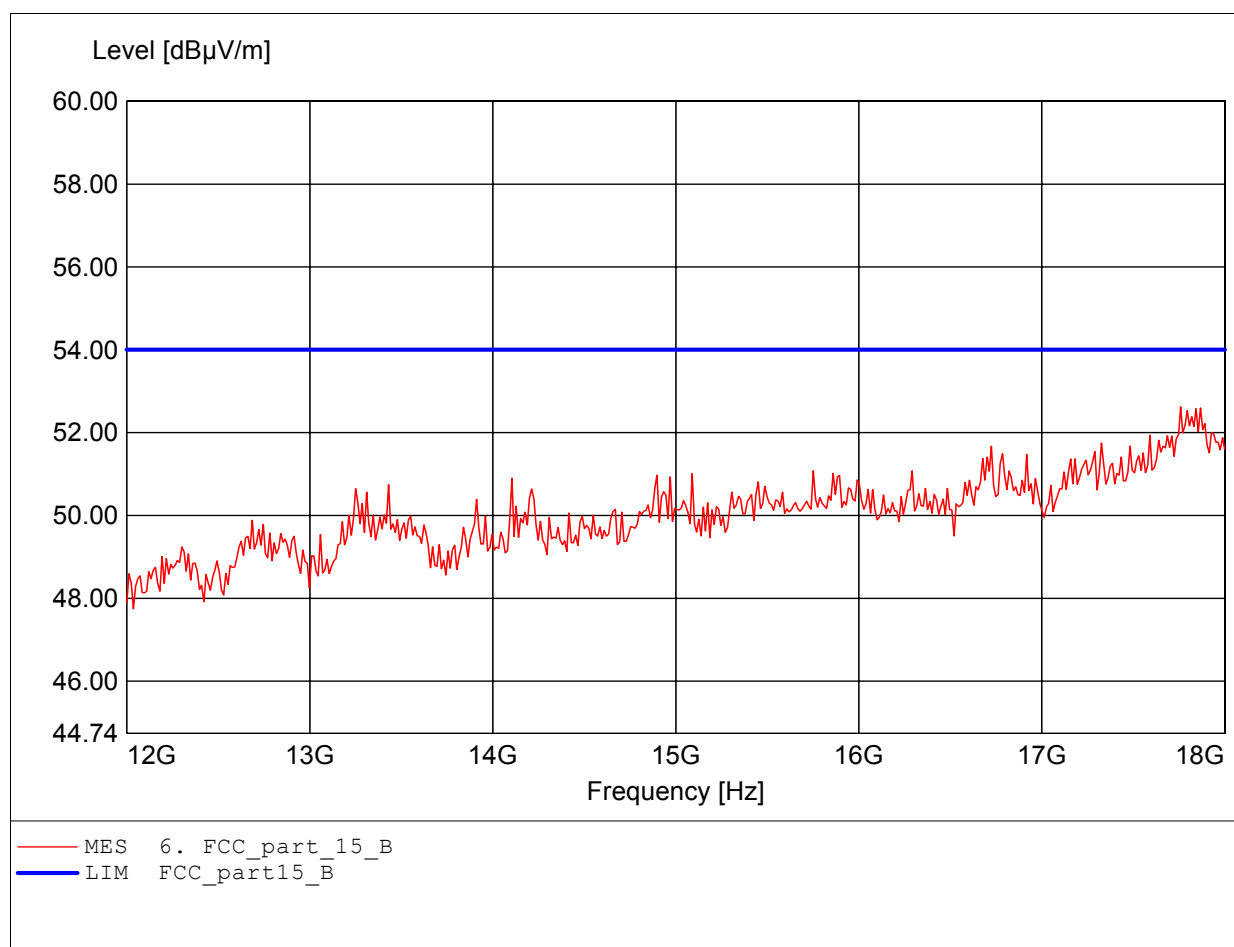
Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:17.844GHz Emax:52.37dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

Order Number : W6M20606-7110 high channel
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 23.9°C/ Unom.: 4.5 VDC (battery)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:17.760GHz Emax:52.62dBμV/m RBW: 1 MHz



Appendix G

Pictures