

FCC PART 15 SUBPART C TEST REPORT

for

Wireless keyboard

Model No.: RF-6560

FCC ID: UJ96560

of

Applicant: I-ROCKS TECHNOLOGY CO., LTD.

**Address: 12F, No. 190, Chung-hsin Rd., Sec. 2, Hsin-tien City,
Taipei, 23146 Taiwan, R.O.C.**

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: 930600

Industry Canada filed test laboratory Reg. No. IC 5679A-1

A2LA Accredited No.: 2732.01

PTCRB Accredited Type Certification Test House

Report No.: W6M20803-8972-P-15

**6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: wts@wts-lab.com**

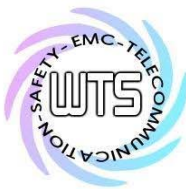
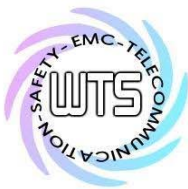


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1 General Information

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 Worldwide Testing Services (Taiwan) Co., Ltd.

Tester:

April 02, 2008

Jay Chaing

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

April 02, 2008

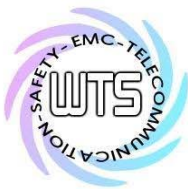
Steven Chuang

Date

WTS

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
Worldwide Testing Services (Taiwan) 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 accredited number: 2732.01

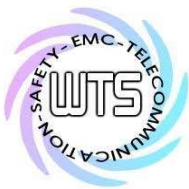
FCC filed test laboratory Reg. No. 930600

Industry Canada filed test laboratory Reg. No. IC 5679A-1

PTCRB Accredited Type Certification Test House

1.3 Details of approval holder

Name:	I-ROCKS TECHNOLOGY CO., LTD.
Street:	12F, No. 190, Chung-hsin Rd., Sec. 2, Hsin-tien City,
Town:	Taipei, 23146
Country:	Taiwan, R.O.C.
Telephone:	+886-2-2911-3080
Fax:	+886-2-2914-1712
Teletex:	./.



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1.4 Application details

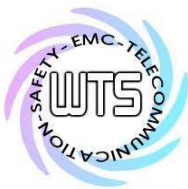
Date of receipt of test item: March 18, 2008
Date of test: From March 19, 2008 to March 31, 2008

1.5 General information of Test item

Type of test item: Wireless keyboard
Model Number: RF-6560
Brand name: i-rocks
Photos: see Appendix

Technical data

Frequency band: 2.400-2.4835 GHz
Operation Frequency: 2.410-2.473 GHz
Frequency 1: 2.410 GHz
Frequency 2: 2.437 GHz
Frequency 3: 2.473 GHz
Operation modes: simplex
Modulation Type: FSK
Antenna type: PCB antenna
Antenna gain: -2.75 dBi
Power supply: Battery (AA*2)



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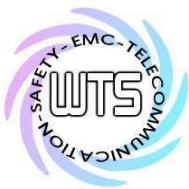
Manufacturer: (if different from applicant)

Name: JING MOLD ELECTRONICS TECHNOLOGY CO., LTD
Street: XinQiao,3rd Industrial Estate, Shajing Paoan,
Town: Shenzhen,
Country: China

Additional information: ./.

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART B / SUBPART C § 15.249 (2007-10)



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2 Technical test

2.1 Summary of test results

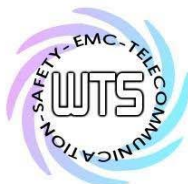
No deviations from the technical specification(s) were ascertained in the course of the tests performed.

or

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

2.2 Test environment

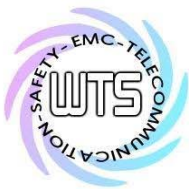
Temperature:	23 °C
Relative humidity content:	20 ... 75 %
Air pressure:	86 ... 103 kPa
Details Power supply:	Battery (AA*2)
Extreme conditions parameters:	Not required



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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	2007/10/15	2008/10/14
ETSTW-CE 002	PREREULATOR 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	2007/10/15	2008/10/14
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2007/10/15	2008/10/14
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2007/5/11	2008/5/10
ETSTW-CE 008	ABSORBING CLAMP	MDS 21	3469	Schwarzbeck	2007/10/23	2009/10/22
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2007/8/2	2008/8/1
ETSTW-CE 013	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T4-02	20242	FCC	2007/11/2	2009/11/1
ETSTW-CE 014	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T2-02	20241	FCC	2005/12/7	2008/12/6
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	2007/10/29	2008/10/28
ETSTW-RE 002	Function Generator	33220A	MY43004982	Agilent	2007/10/12	2009/10/11
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2007/12/3	2008/12/2
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2007/10/29	2008/10/28
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2007/10/11	2008/10/12
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	Log-Periodic Antenna	HL025	352886/001	R&S	2006/5/4	2008/5/3
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2007/11/7	2010/11/6
ETSTW-RE 020	MICROWAVE HORN ANTENNA	AT4002A	306915	AR	Function Test	
ETSTW-RE 021	SWEEP GENERATOR	SWM05	835130/010	R&S	2007/10/9	2008/10/8
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	EMCO	2007/6/29	2008/6/28
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 Guide Horn Antenna	3117	00035224	EMCO	2006/5/3	2008/5/2
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2007/10/9	2008/10/8
ETSTW-RE 033	WaveRunner 6000A Serie Oscilloscope	WAVERUNNER 6100A	LCRY0604P14508	LeCroy	2007/7/9	2008/7/8
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2007/10/16	2009/10/15
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2007/1/11	2009/1/10
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2006/5/8	2008/5/7
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2006/5/29	2008/5/28
ETSTW-RE 047	ESA-E SERIES SPECTRUM ANALYZER	E4445A	MY46181369	Agilent	2007/7/19	2008/7/18

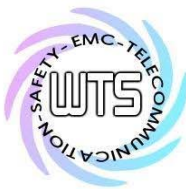


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ETSTW-RE 048	Triple Loop Antenna	HXYZ 9170	HXYZ 9170-134	Schwarzbeck	2005/3/22	2009/3/21
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2007/5/2	2009/5/1
ETSTW-RE 055	SPECTRUM ANALYZER	FSU-26	200074	R&S	2007/7/16	2008/7/15
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2007/7/2	2009/7/1



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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.

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:

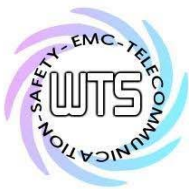
Freq (MHz) METER READING + ACF + CABLE LOSS (to the receiver) = FS
33 20 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm height and with dimensions of 1m by 1.5m (non metallic table). The EUT was placed in the centre of the table. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings.

Measurements were made by Worldwide Testing Services (Taiwan) 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.

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

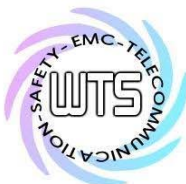


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3 Test results (enclosure)

Test case	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.249 (a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions radiated – Transmitter operating	15.249 (e)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions conducted – Transmitter operating	15.249 (e)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emission from Digital Part	15.109	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Out of Band Spurious Emission, Band edge-Transmitter operating	15.249 (e)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Line Conducted Emission	15.207	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The follows is intended to leave blank.



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3.1 Peak Output Power (transmitter)

FCC Rule: 15.249 (b)

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).

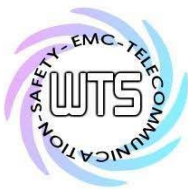
Test conditions Frequency 1		Transmitter field strength of fundamental	Transmitter field strength of harmonics
		[dB μ V/m]	
T _{nom} = 23 °C	V _{nom} = 3 V	90.61	--
Measurement uncertainty		< 3 dB	

Test conditions Frequency 2		Transmitter field strength of fundamental	Transmitter field strength of harmonics
		[dB μ V/m]	
T _{nom} = 23 °C	V _{nom} = 3 V	90.29	--
Measurement uncertainty		< 3 dB	

Test conditions Frequency 3		Transmitter field strength of fundamental	Transmitter field strength of harmonics
		[dB μ V/m]	
T _{nom} = 23 °C	V _{nom} = 3 V	89.21	--
Measurement uncertainty		< 3 dB	

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

Explanation: The diagrams for the field strength measurements are included in appendix.



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3.2 Equivalent isotropic radiated power

Because using an permanent antenna there are no deviations from the radiated test results according 3.1.

3.3 RF Exposure Compliance Requirements

Not applicable for this Wireless keyboard for the low power level.

3.4 Out of Band Radiated Emissions

FCC Rule: 15.249 (d)(e), 15.35(b)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequency above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Limits:

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	46.5
Above 960	500	54.0

For frequencies above 1 GHz (Peak measurements).

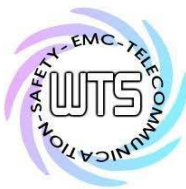
Limit + 20 dB 54.0 dBμV/m + 20 dB= 74dBμV/m

Or

Must be attenuated at least 50dB below the level of fundament

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

Explanation: Please see attached diagram as appendix.



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3.5 Spurious emission (tx)

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

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequencies above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

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

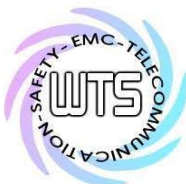
The peak and average spurious emission plots was measured with the average limits.
 The critical peak value listed in the table agree with the above calculated limits.

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)	Antenna Height (cm)
H	1348.500	44.77	-8.35	PK	36.42	54.0	17.58	177	145
	1842.541	43.21	-4.67	PK	38.54	54.0	15.46	124	150
	4839.585	57.53	4.61	PK	62.14	74.0	11.86	99	140
	4839.585	42.95	4.61	AV	47.56	54.0	6.44	99	140

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	1492.981	56.81	-7.28	PK	49.53	54.0	4.47	189	150
	1842.541	47.81	-4.67	PK	43.14	54.0	10.86	127	130
	4839.779	43.91	4.61	PK	48.52	54.0	5.48	230	160



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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)	Antenna Height (cm)
H	1348.500	42.93	-8.35	PK	34.58	54.0	19.42	92	150
	1492.981	43.80	-7.28	PK	36.52	54.0	17.48	145	150
	4873.584	53.74	4.78	PK	58.52	74.0	15.48	270	160
	4873.584	42.73	4.78	AV	47.51	54.0	6.49	270	160

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	1348.500	52.49	-8.35	PK	44.14	54.0	9.86	94	115
	1498.945	67.06	-7.22	PK	59.84	74.0	14.16	149	150
	1498.945	53.14	-7.22	AV	45.92	54.0	8.08	149	150
	4873.584	43.14	4.78	PK	47.92	54.0	6.08	275	160

High Channel

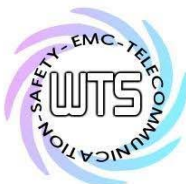
Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuv)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)	Antenna Height (cm)
H	1201.484	42.33	-7.79	PK	34.54	54.0	19.46	94	150
	1498.945	43.36	-7.22	PK	36.14	54.0	17.86	92	150
	4945.845	54.08	4.50	PK	58.58	74.0	15.42	200	145
	4945.845	45.52	4.50	AV	50.02	54.0	3.98	200	145

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	1348.500	50.50	-8.35	PK	42.15	54.0	11.85	91	155
	1505.041	53.61	-7.19	PK	46.42	54.0	7.58	90	160
	4945.845	44.64	4.50	PK	49.14	54.0	4.86	210	150

- Note**
1. Correction Factor = Antenna factor + Cable loss - Preamplifier
 2. The formula of measured value as: Test Result = Reading + Correction Factor
 3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
 4. All not in the table noted test results are more than 20 dB below the relevant limits.
 5. Please see attached diagram as appendix.

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

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



Registration number: W6M20803-8972-P-15
FCC ID: UJ96560

3.6 Radiated Emissions from Digital Part

Note: According to FCC part 15.109 (g), digital devices may be shown to comply with the standards contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, "Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement".

Model: RF-6560 Date: 2008/3/19
Mode: Temperature: 26 °C Engineer: Danny
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
166.894	10.39	peak	15.12	25.51	30	-4.49	105	325
208.016	11.64	peak	12.30	23.94	30	-6.06	110	300
260.501	9.43	peak	14.10	23.53	37	-13.47	115	275
311.222	7.14	peak	15.59	22.73	37	-14.27	120	245
496.393	6.48	peak	19.77	26.25	37	-10.75	120	210
716.633	5.56	peak	23.89	29.45	37	-7.55	125	170

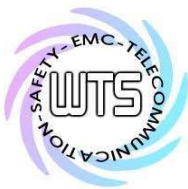
Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
166.353	13.08	peak	15.15	28.23	30	-1.77	110	175
200.441	13.09	peak	12.15	25.24	30	-4.76	110	185
248.056	7.09	peak	13.78	20.87	37	-16.13	100	230
364.529	7.64	peak	16.82	24.46	37	-12.54	110	265
716.633	3.32	peak	23.89	27.21	37	-9.79	115	335
913.026	3.05	peak	26.54	29.59	37	-7.41	120	380

- Note**
- 1. Correction Factor = Antenna factor + Cable loss - Preamplifier**
 - 2. The formula of measured value as: Test Result = Reading + Correction Factor**
 - 3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
 - 4. All not in the table noted test results are more than 20 dB below the relevant limits.**

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

Explanation: Please see attached diagram as appendix.



Registration number: W6M20803-8972-P-15
 FCC ID: UJ96560

3.7 Radiated Emission on the band edge

From the following plots, they show that the fundamental emissions are confined in the specified band and they are at least 50 dB below the carrier level at band edge (2400 and 2483.5 MHz). It meets the requirement of section 15.249(d).

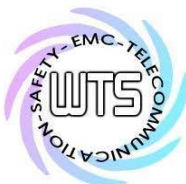
Test conditions Tnom = 23°C, Vnom = 1.5V Frequency [MHz]	Transmitter field strength of Radiated Emission (Peak Detector)	Transmitter field strength of Radiated Emission (Average Detector)
	[dBμV/m]	
2400.0	--	--
2483.5	--	--

Limit:

Frequency Range (MHz)	Limit (dBμV/m)	
	Peak	Average
902 – 928		
2400 – 2483.5		
5725 – 5875	74	54
24000 - 24250		

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

Explanation: This test is not required because the bandwidth is only 1.2 MHz.
 Please see attached diagram as appendix.



Registration number: W6M20803-8972-P-15
 FCC ID: UJ96560

3.8 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.

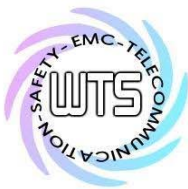
Frequency	Level (dB μ V)	
	quasi-peak	average
150 kHz	lower limit line	Lower limit line

Model: RF-6560 Date: 2008/3/20 Engineer: Danny
 Mode: Temperature: 26 °C
 Polarization: N Humidity: 60 %

Frequency (MHz)	Reading (dB μ V)		Factor (dB) Corr.	Result (dB μ V)		Limit (dB μ V)		Margin (dB)
	QP	Ave.		QP	Ave.	QP	Ave.	
0.1512	30.23	--	10.10	40.33	--	65.93	--	-25.60
0.2192	24.59	--	10.10	34.69	--	62.85	--	-28.16
1.8850	24.41	--	10.10	34.51	--	56.00	--	-21.49
4.7150	21.06	--	10.10	31.16	--	56.00	--	-24.84
15.3889	15.58	--	10.10	25.68	--	60.00	--	-34.32
18.7500	15.75	--	10.10	25.85	--	60.00	--	-34.15

Polarization: L1

Frequency (MHz)	Reading (dB μ V)		Factor (dB) Corr.	Result (dB μ V)		Limit (dB μ V)		Margin (dB)
	QP	Ave.		QP	Ave.	QP	Ave.	
0.1504	31.40	--	10.10	41.50	--	65.98	--	-24.48
0.3032	25.45	--	10.10	35.55	--	60.15	--	-24.60
1.9700	20.38	--	10.10	30.48	--	56.00	--	-25.52
4.4300	20.30	--	10.10	30.40	--	56.00	--	-25.60
11.1111	19.46	--	10.10	29.56	--	60.00	--	-30.44
13.5278	19.00	--	10.10	29.10	--	60.00	--	-30.90



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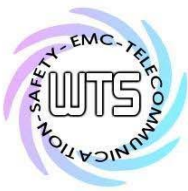
Registration number: W6M20803-8972-P-15
FCC ID: UJ96560

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

Test equipment used: ETSTW-CE 001 ETSTW-CE 003 ETSTW-CE 004 ETSTW-CE 006 ETSTW-CE 011

Explanation: Please see attached diagram as appendix.



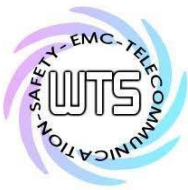
Appendix

A Measurement diagrams

1. Fundamental Field Strength
2. Spurious Emissions radiated
3. Radiated Emissions from Digital Part
4. Bandwidth
5. Power Line Conducted Emission

B Photos

1. External Photos
2. Internal Photos
3. Set Up Photo of Radiated Emission
4. Set Up Photo of Conducted Emission



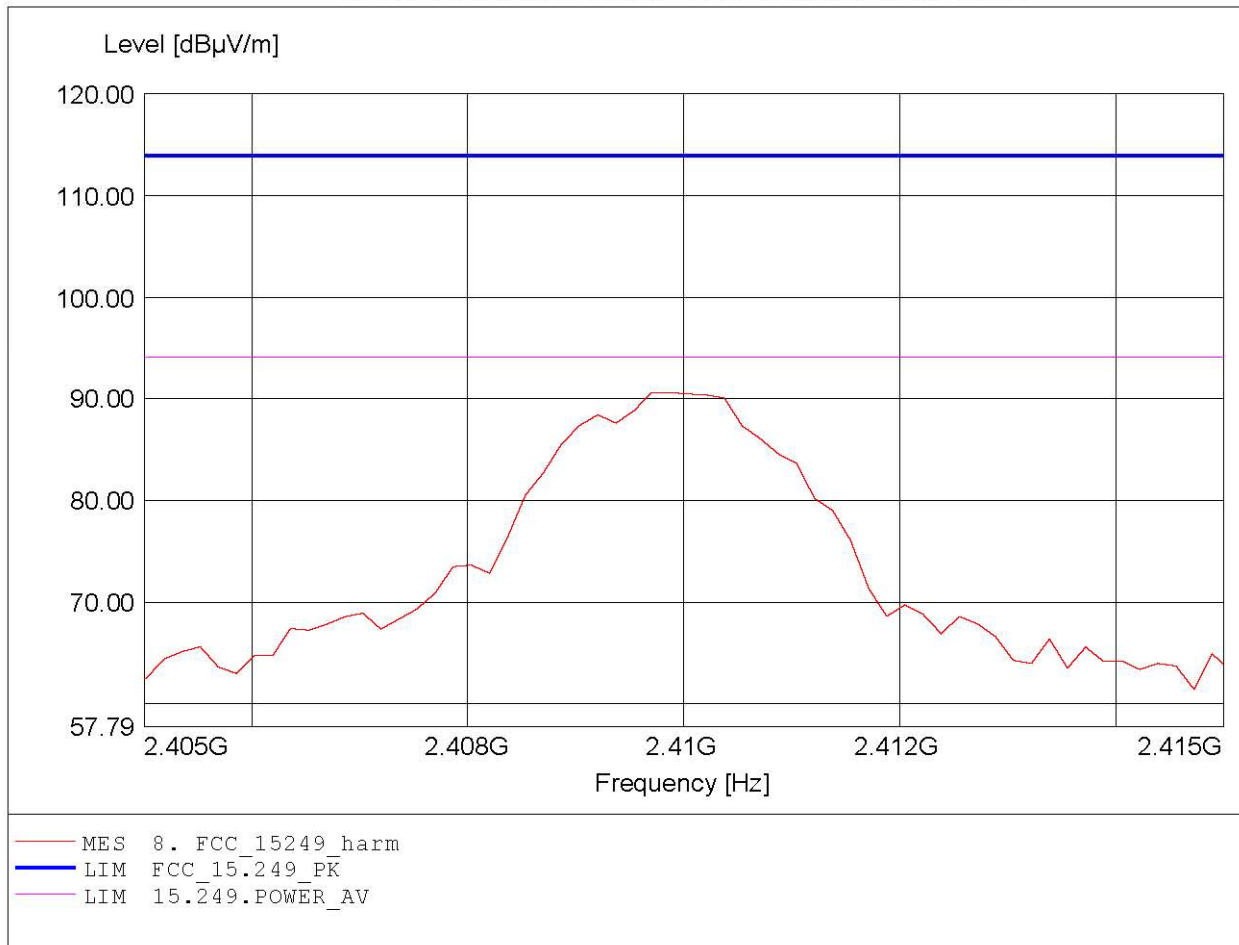
Worldwide Testing Services(Taiwan) Co., Ltd.

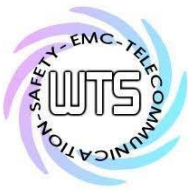
Registration number: W6M20803-8972-P-15
FCC ID: UJ96560

Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C / LP0002

Order Number : W6M20803-8972 (low channel)
Test Site / Operator: WTS / Danny
Temperature: Temp.: 23.9°C
Test Specification: according to §15.249, peak detector
Comment 1: Ant.: HL025
Freq: 2.410GHz, Emax: 90.61dBμV/m, RBW: 1MHz





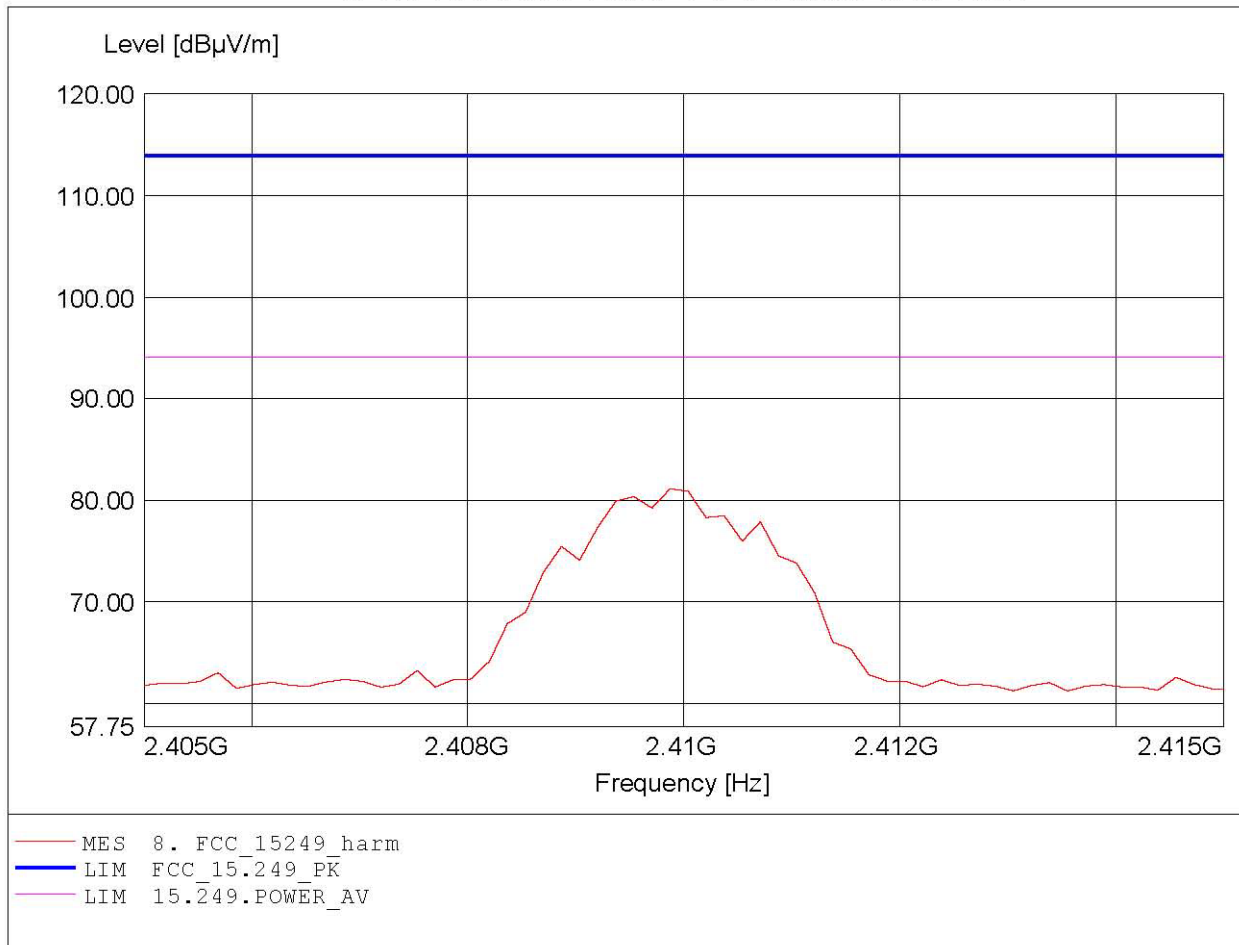
Worldwide Testing Services(Taiwan) Co., Ltd.

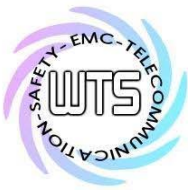
Registration number: W6M20803-8972-P-15
FCC ID: UJ96560

Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C / LP0002

Order Number : W6M20803-8972 (low channel)
Test Site / Operator: WTS / Danny
Temperature: Temp.: 23.9°C
Test Specification: according to §15.249, peak detector
Comment 1: Ant.: HL025
Freq: 2.410GHz, Emax: 81.10dBμV/m, RBW: 1MHz





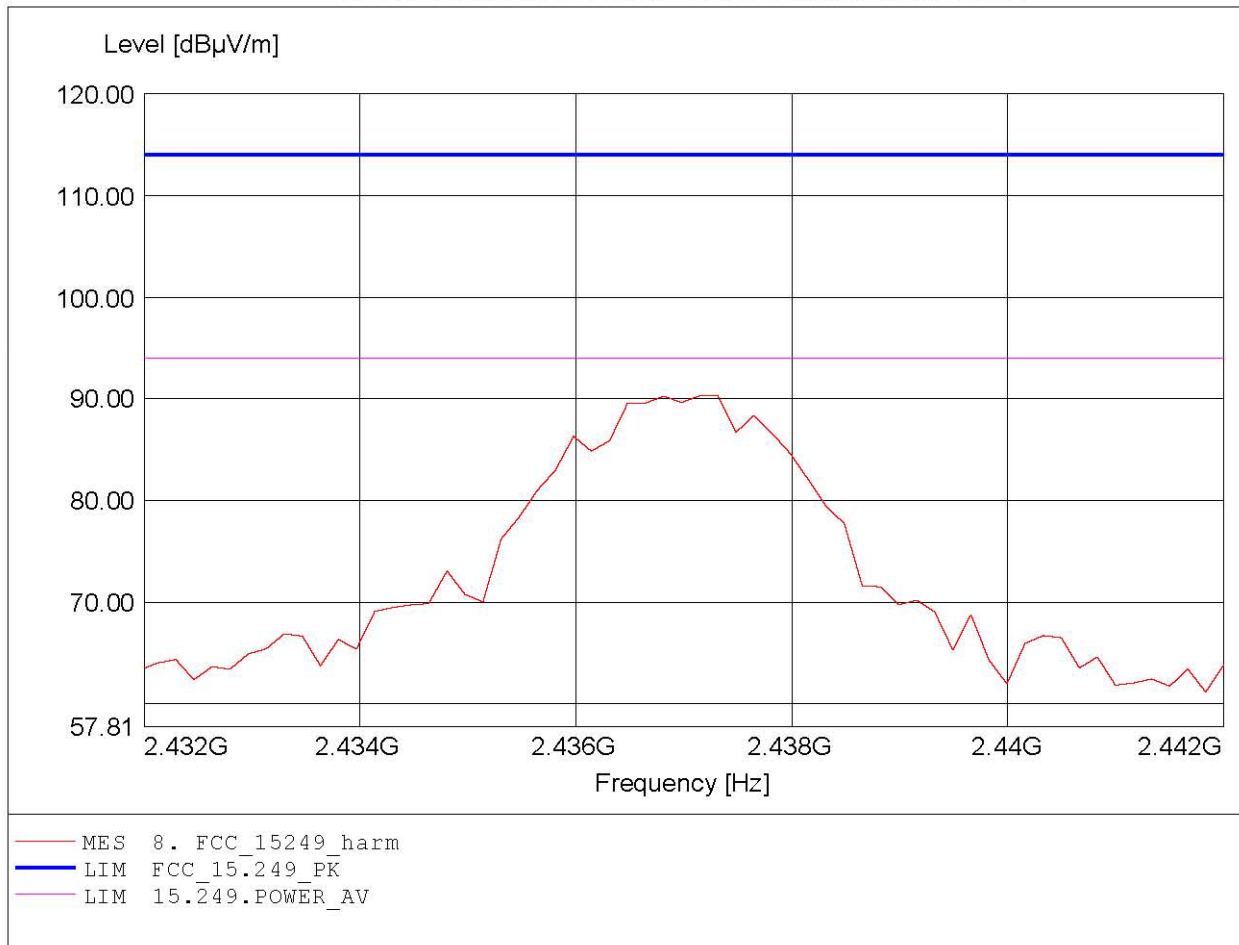
Worldwide Testing Services(Taiwan) Co., Ltd.

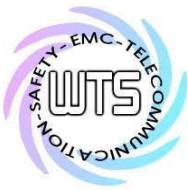
Registration number: W6M20803-8972-P-15
FCC ID: UJ96560

Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C / LP0002

Order Number : W6M20803-8972 (middle channel)
Test Site / Operator: WTS / Danny
Temperature: Temp.: 23.9°C
Test Specification: according to §15.249, peak detector
Comment 1: Ant.: HL025
Freq: 2.437GHz, Emax: 90.29dBμV/m, RBW: 1MHz





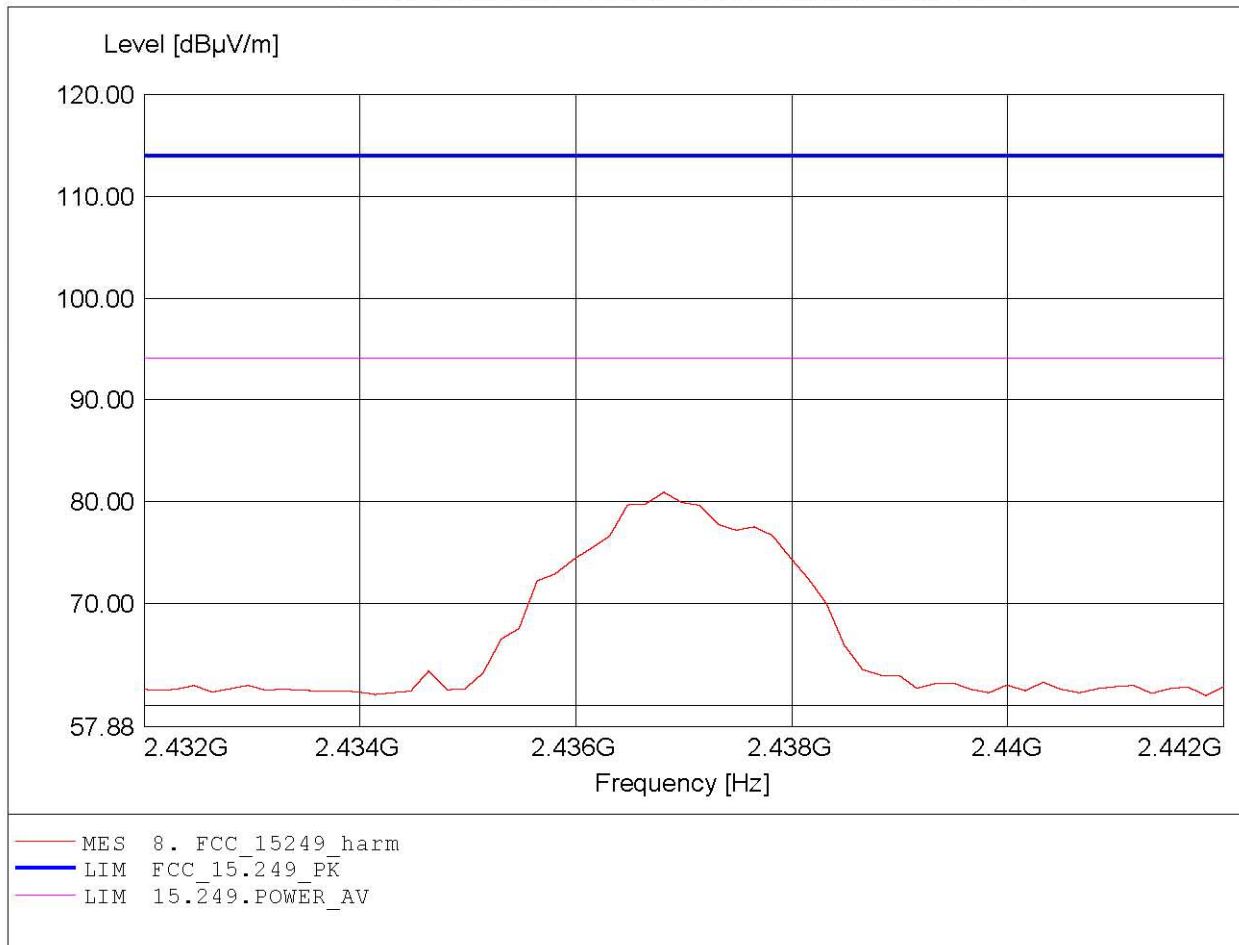
Worldwide Testing Services(Taiwan) Co., Ltd.

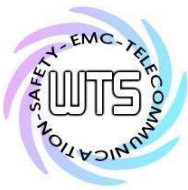
Registration number: W6M20803-8972-P-15
FCC ID: UJ96560

Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C / LP0002

Order Number : W6M20803-8972 (middle channel)
Test Site / Operator: WTS / Danny
Temperature: Temp.: 23.9°C
Test Specification: according to §15.249, peak detector
Comment 1: Ant.: HL025
Freq: 2.437GHz, Emax: 80.88dBμV/m, RBW: 1MHz





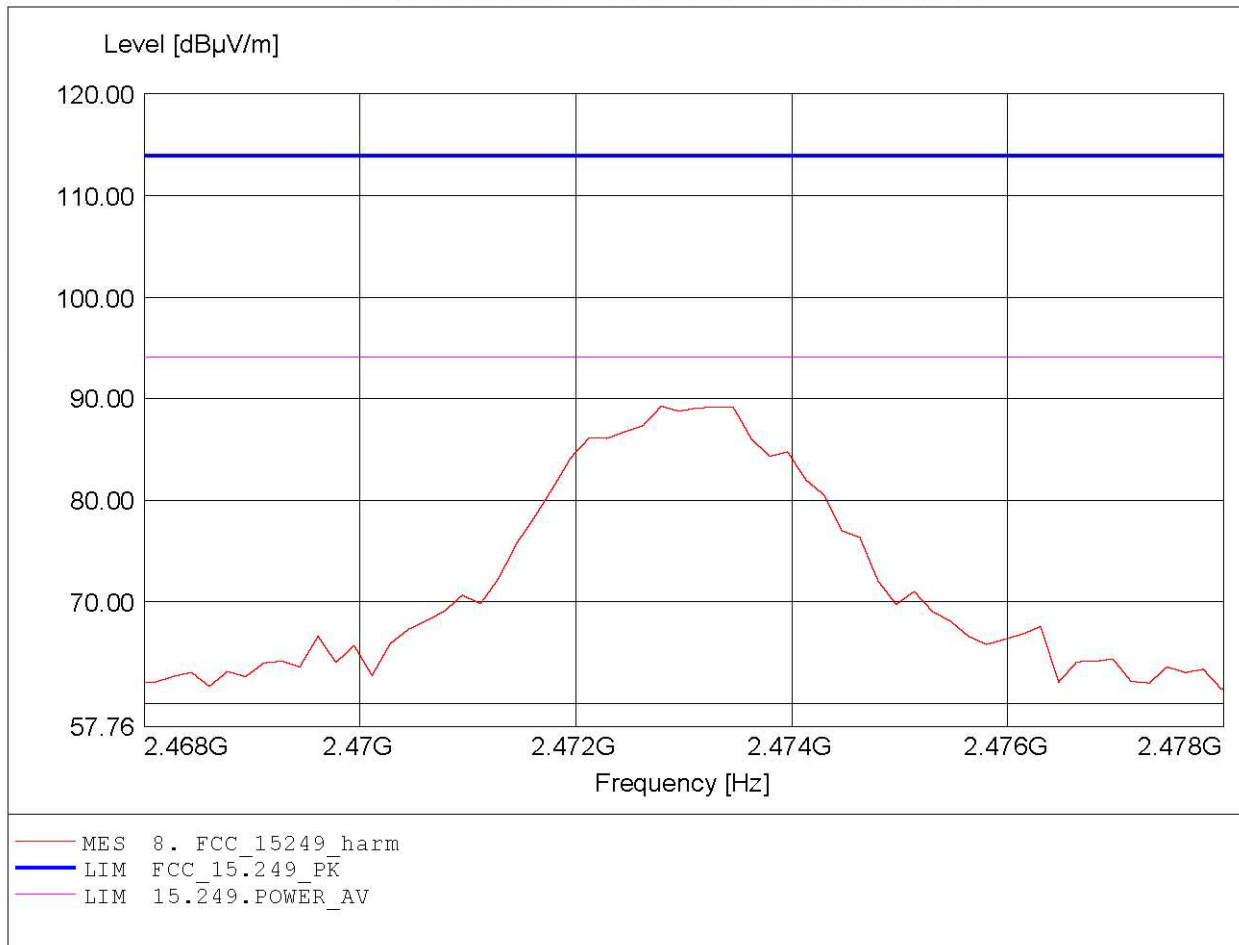
Worldwide Testing Services(Taiwan) Co., Ltd.

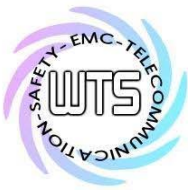
Registration number: W6M20803-8972-P-15
FCC ID: UJ96560

Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C / LP0002

Order Number : W6M20803-8972 (high channel)
Test Site / Operator: WTS / Danny
Temperature: Temp.: 23.9°C
Test Specification: according to §15.249, peak detector
Comment 1: Ant.: HL025
Freq: 2.473GHz, Emax: 89.21dBμV/m, RBW: 1MHz





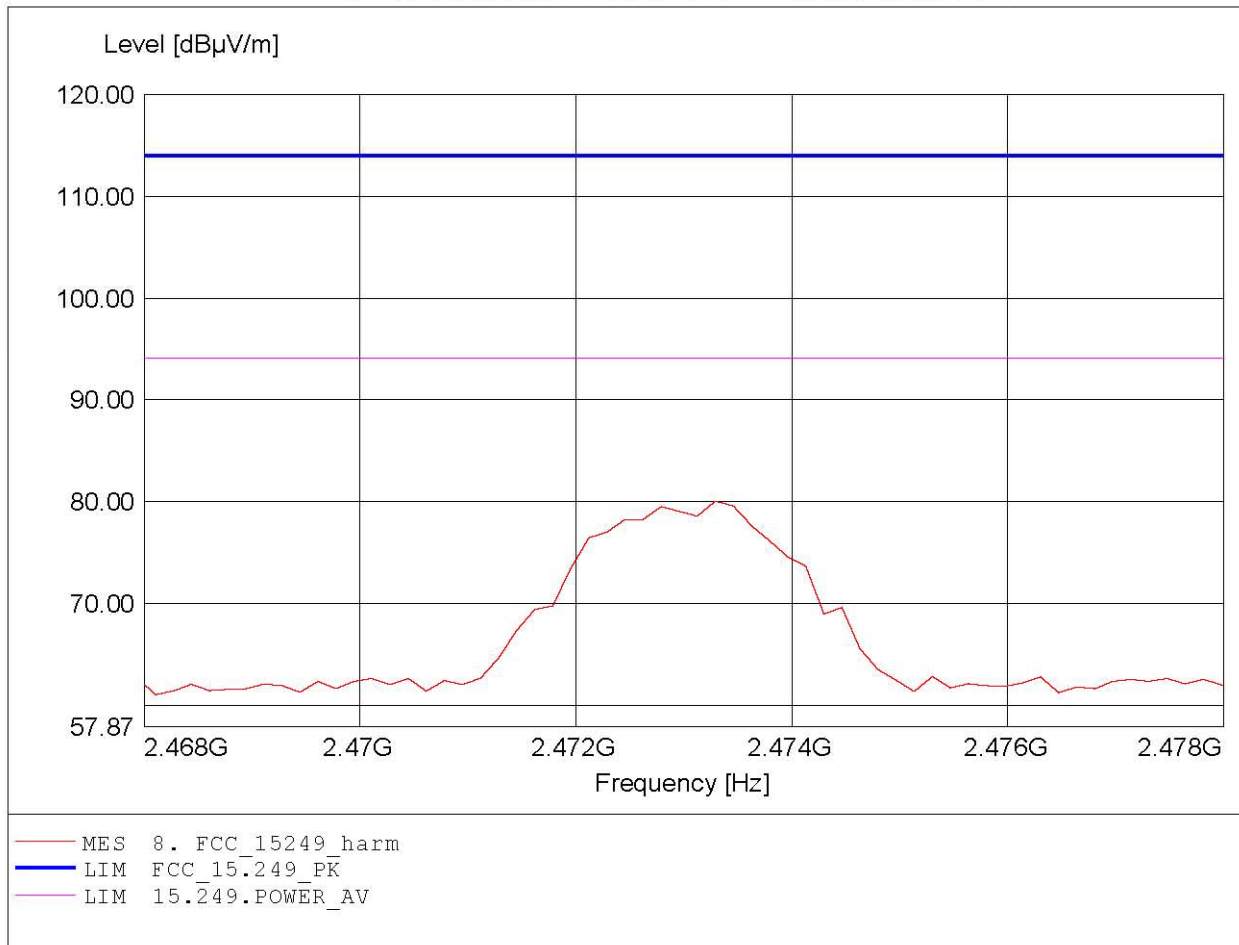
Worldwide Testing Services(Taiwan) Co., Ltd.

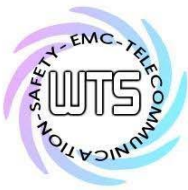
Registration number: W6M20803-8972-P-15
FCC ID: UJ96560

Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C / LP0002

Order Number : W6M20803-8972 (high channel)
Test Site / Operator: WTS / Danny
Temperature: Temp.: 23.9°C
Test Specification: according to §15.249, peak detector
Comment 1: Ant.: HL025
Freq: 2.473GHz, Emax: 79.98dBμV/m, RBW: 1MHz



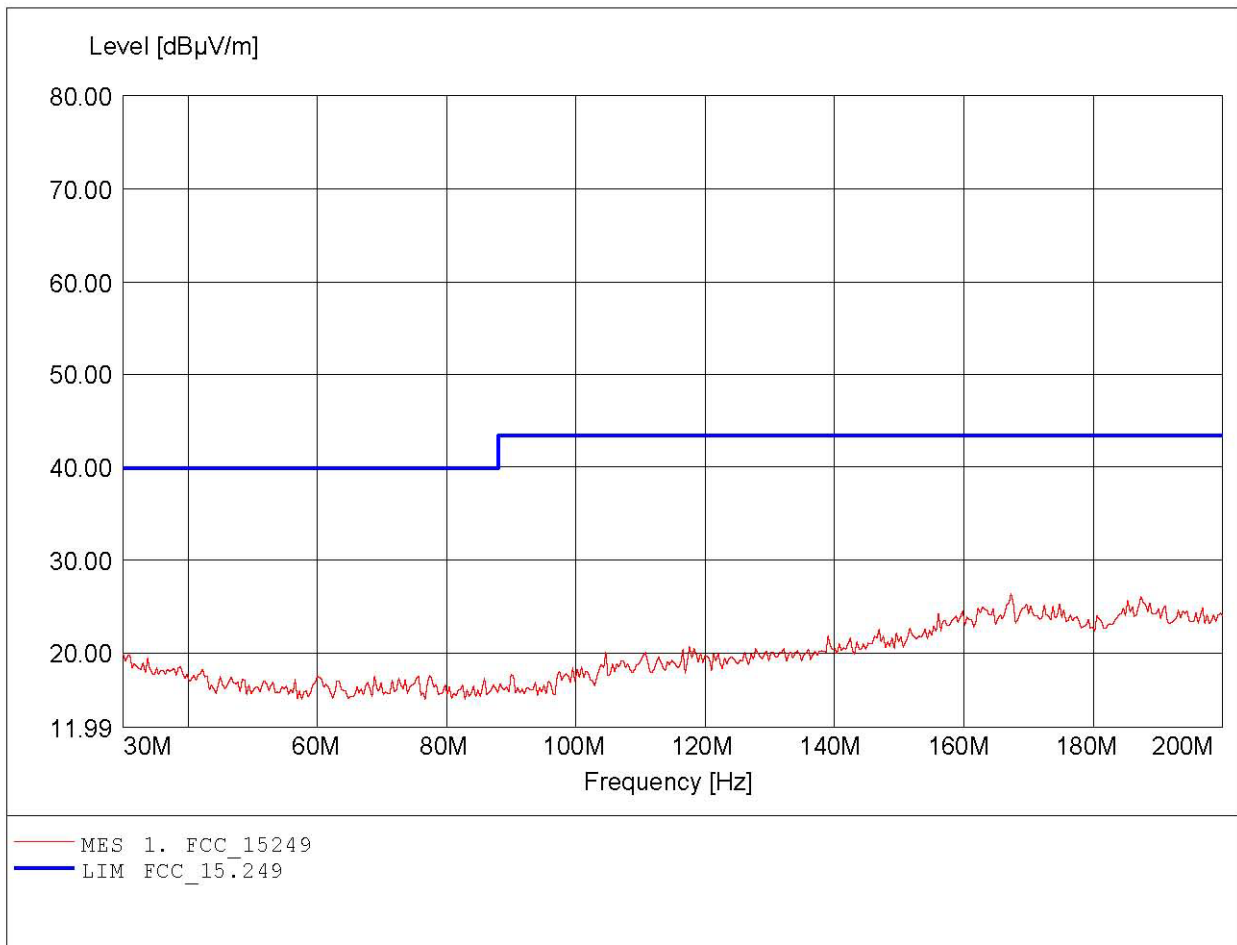


Registration number: W6M20803-8972-P-15
FCC ID: UJ96560

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

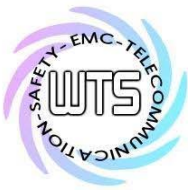
Order Number : W6M20803-8972 (low channel)
Test Site / Operator: WTS / Danny
Temperature: Temp.: 23.9°C
Test Specification: according to §15.249, peak detector
Comment 1: Ant.: HK 116
Freq: 167.295MHz, Emax: 26.40dBµV/m, RBW: 100kHz



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Note:

- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.**

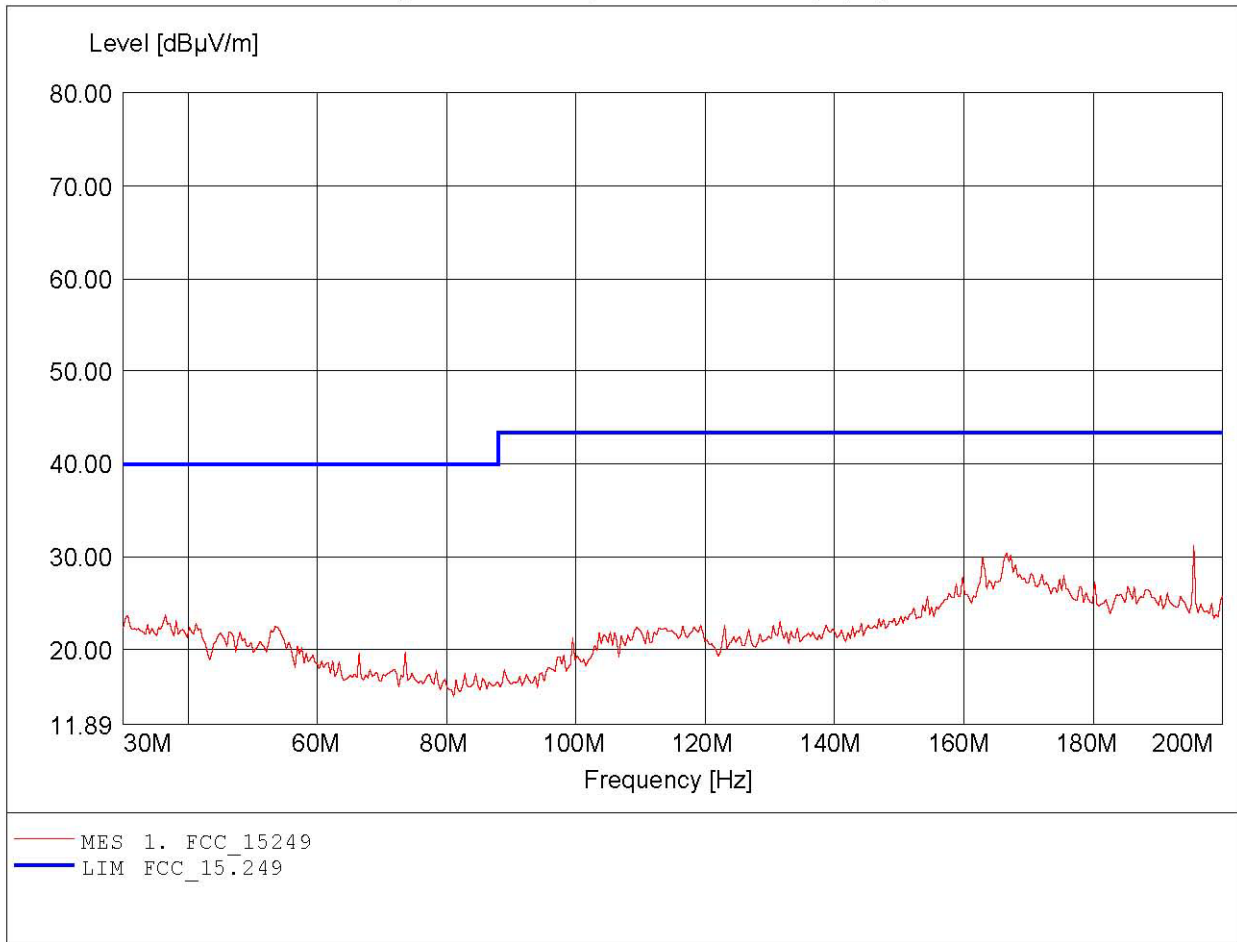


Registration number: W6M20803-8972-P-15
FCC ID: UJ96560

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

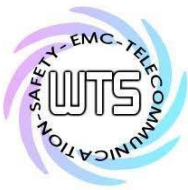
Order Number : W6M20803-8972 (low channel)
Test Site / Operator: WTS / Danny
Temperature: Temp.: 23.9°C
Test Specification: according to §15.249, peak detector
Comment 1: Ant.: HK 116
Freq: 195.571MHz, Emax: 31.19dBμV/m, RBW: 100kHz



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Note:

- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.**

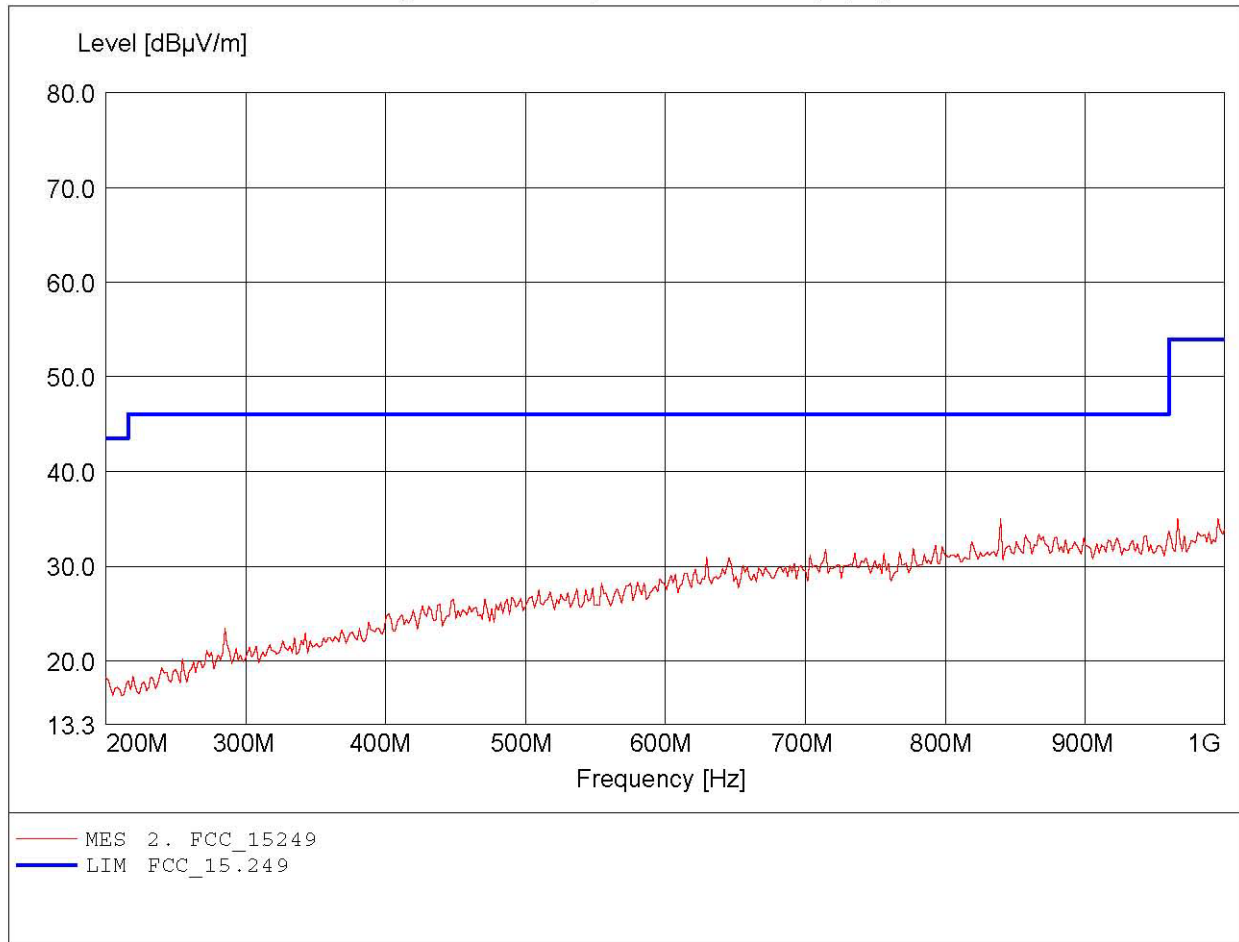


Registration number: W6M20803-8972-P-15
FCC ID: UJ96560

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

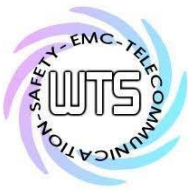
Order Number : W6M20803-8972 (low channel)
Test Site / Operator: WTS / Danny
Temperature: Temp.: 23.9°C
Test Specification: according to §15.249, peak detector
Comment 1: Ant.: HL 223, amplif.
Freq: 966.333MHz, Emax: 35.01dBμV/m, RBW: 100kHz



Page 1/1 3/26/2008 10:28AM Overview / Antenna horizontal

Note:

- The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
- The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
- For corrected test results are listed in the relevant table of radiated test data of this test report.**

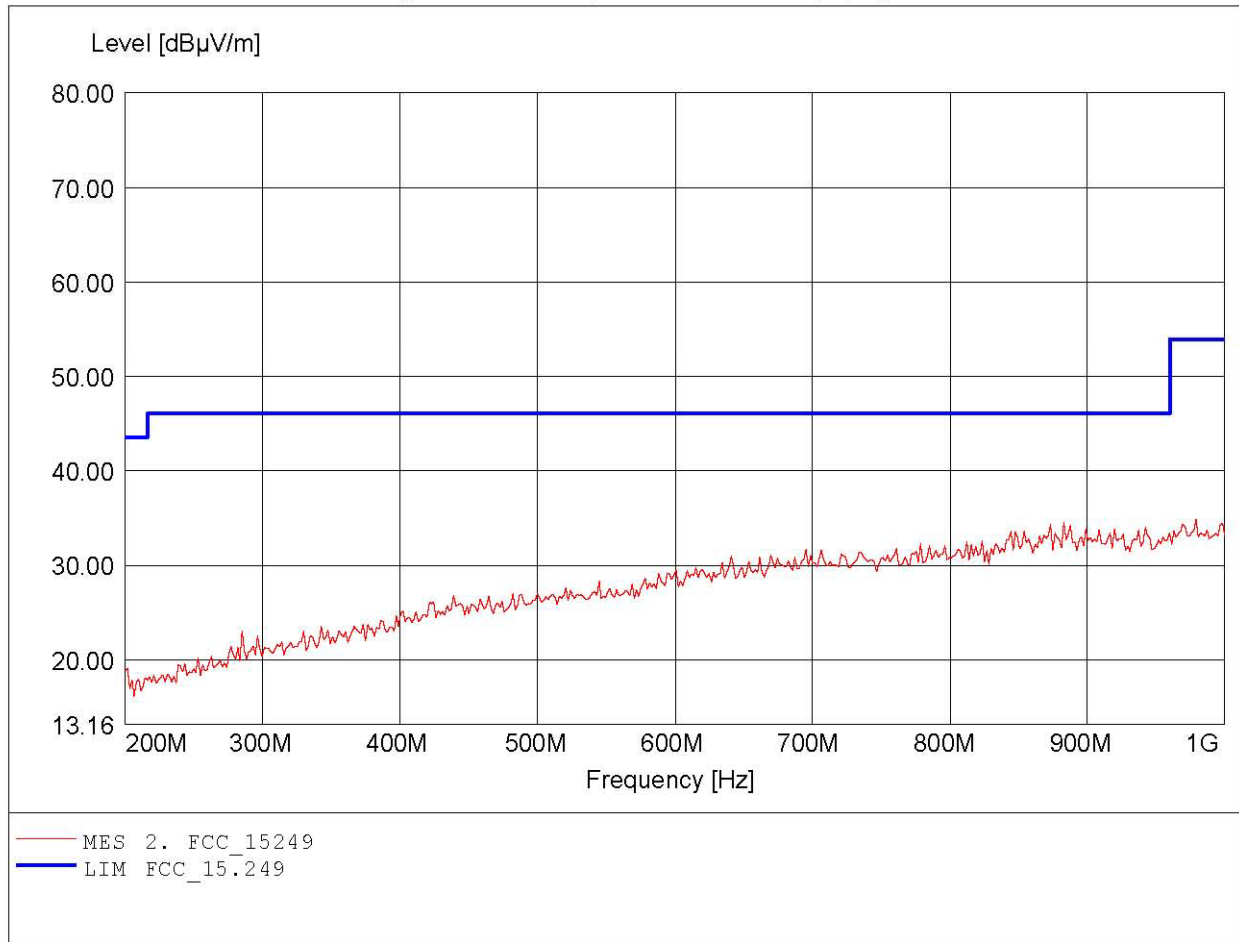


Registration number: W6M20803-8972-P-15
FCC ID: UJ96560

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

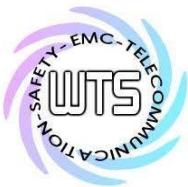
Order Number : W6M20803-8972 (low channel)
Test Site / Operator: WTS / Danny
Temperature: Temp.: 23.9°C
Test Specification: according to §15.249, peak detector
Comment 1: Ant.: HL 223, amplif.
Freq: 979.158MHz, Emax: 34.84dBuV/m, RBW: 100kHz



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Note:

- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.**

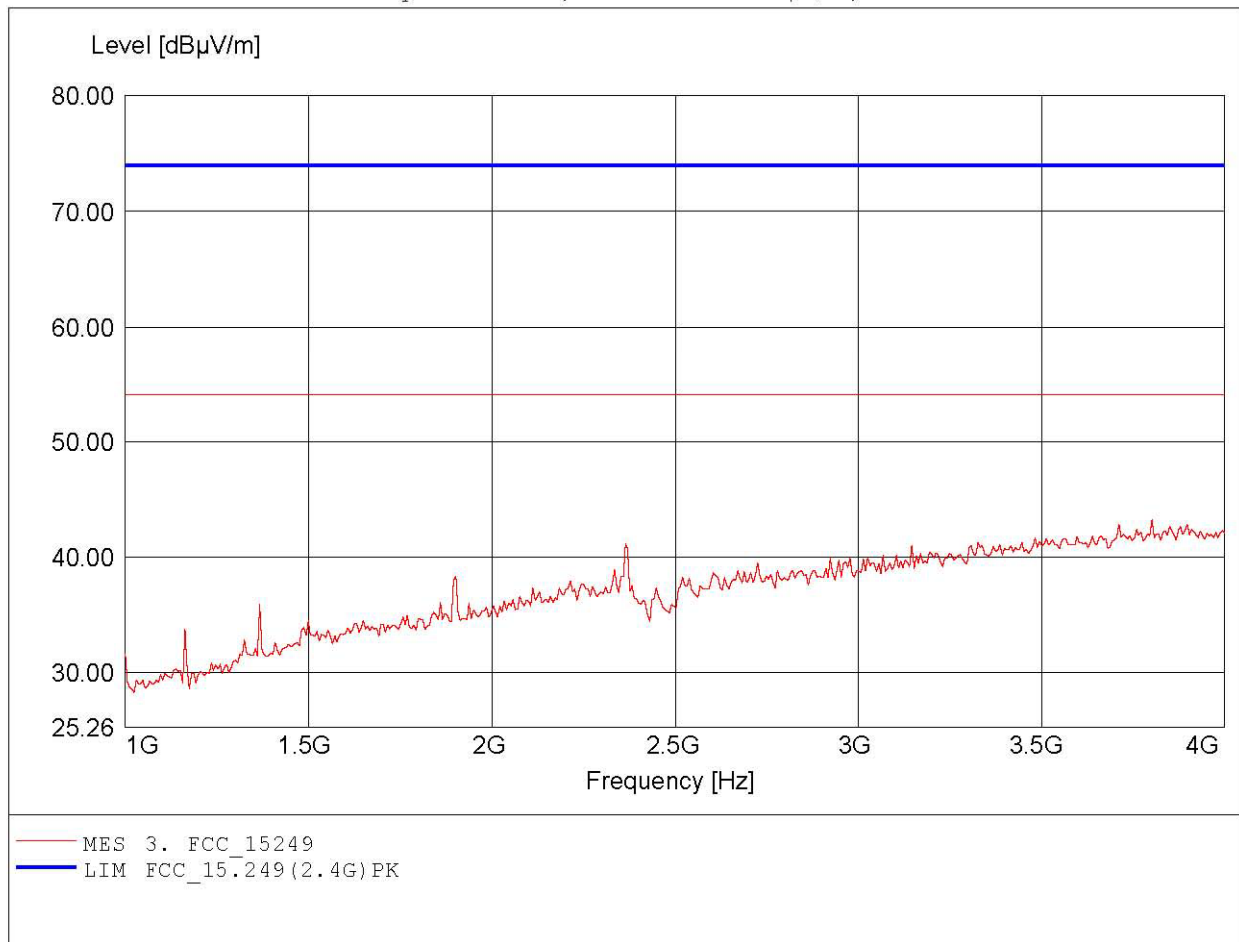


Registration number: W6M20803-8972-P-15
FCC ID: UJ96560

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

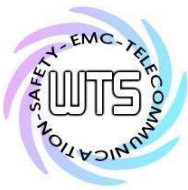
Order Number : W6M20803-8972 (low channel)
Test Site / Operator: WTS / Danny
Temperature: Temp.: 23.9°C
Test Specification: according to §15.249, peak detector
Comment 1: Ant.: HL025, amplif.
Freq: 3.802GHz, Emax: 43.21dB μ V/m, RBW: 1MHz



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Note:

- The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
- The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
- For corrected test results are listed in the relevant table of radiated test data of this test report.**

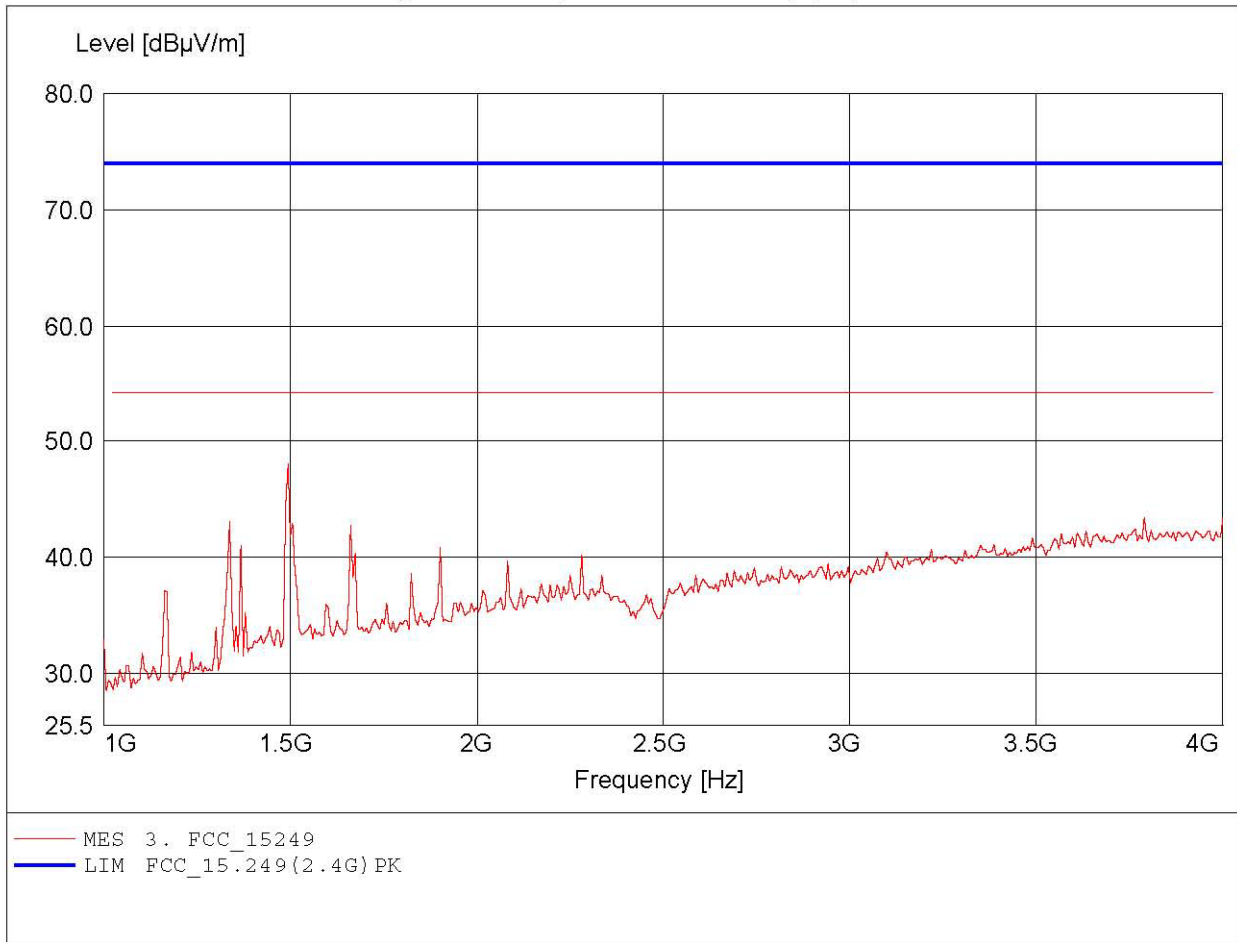


Registration number: W6M20803-8972-P-15
FCC ID: UJ96560

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C / LP0002

Order Number : W6M20803-8972 (low channel)
Test Site / Operator: WTS / Danny
Temperature: Temp.: 23.9°C
Test Specification: according to §15.249, peak detector
Comment 1: Ant.: HL025, amplif.
Freq: 1.493GHz, Emax: 48.00dBμV/m, RBW: 1MHz



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Note:

- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.**