TECHNICAL REPORT

卓時檢測 TIMEWAY TESTING LABORATORY

TESTING CNAS L2292

ISO/IEC17025 Accredited Lab.

Report No: FCC0709023
File reference No: 2007-11-09

Applicant: SHENZHEN WEIJIAN PLASTICS CO., LTD

Product: Wireless Mouse

Model No: W3012RF

Brand Name: N/A

Test Standards: FCC Part 15 Subpart C, Paragraph 15.249

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: Nov 09, 2007

Results appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

East 5/Block 4, Anhua Industrial Zone, No.8,Tairan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996

Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meets with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.:899988.

IC- Registration No.: IC5205

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration No.: IC 5205.

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Test Report Conclusion

Content

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1.0 **General Details**

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.

Telephone: (755) 83448688

Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205

For 3m & 10 m OATS

1.2 Applicant Details

Applicant: SHENZHEN WEIJIAN PLASTICS CO., LTD

Address: SHANGPAI INDUSTRIAL PARK, SHIYAN TOWSHIP, BAOAN DISTRICT, SHENZHEN

Telephone: 0755-27658366

Fax: 0755-29816253

1.3 Description of EUT

Product:	Wireless Mouse
Manufacturer:	SHENZHEN WEIJIAN PLASTICS CO., LTD
Brand Name:	N/A
Model Number:	W3012RF
Additional Model Name	W3014RF, W3015RF, W3018RF
Additional Trade Name	N/A
Rating:	DC3.0V, 25mA
Modulation Type:	GFSK
Operation Frequency	2410-2475MHz
Antenna Designation	A permanent fixed antenna, which is built-in, designed as an indispensable part of the EUT.

1.4 Submitted Sample: 1 Sample

1.5 Test Duration: 2007-09-11 to 2007-11-09

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =±3.0dB

Radiated Emissions Uncertainty =±6.0dB

1.7 Test Engineer

The sample tested by Terry Tang

Print Name: Terry Tang

2.0	**Test Equipments**				
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2006-12-06	2007-12-05
Absorbing Clamp	ROHDE&SCHWARZ	MDS-21	100126	2006-12-06	2007-12-05
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2006-12-06	2007-12-05
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2006-12-06	2007-12-05
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2006-12-06	2007-12-05
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2007-03-30	2008-03-29
4-WIRE ISN	ROHDE&SCHWARZ	ENY 41	830663/044	2007-02-19	2008-02-18
GG ENY22 Double 2-Wire ISN	ROHDE&SCHWARZ	ENY22	83066/016	2007-02-19	2008-02-18
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2007-02-19	2008-02-18
System Controller	CT	SC100	-	2007-02-19	2008-02-18
Printer	EPSON	PHOTO EX3	CFNH234850	2007-02-19	2008-02-18
FM-AM Signal Generator	JUNGJIN	SG-150M	389911177	2007-02-19	2008-02-18
Color TV Pattern Generator	PHILIPS	PM5418	LO621747	2007-02-19	2008-02-18
Computer	IBM	8434	1S8434KCE99BLX LO*	-	-

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Oscillator	KENWOOD	AG-203D	3070002	2007-02-23	2008-02-22
Spectrum Analyzer	HAMEG	HM5012	-	-	-
Power Supply	LW	APS1502	-	-	-
5K VA AC Power Source	California Instruments	5001iX	56060	2007-02-19	2008-02-18
CDN	EM TEST	CDN M2/M3	-	2007-02-19	2008-02-18
Attenuation	EM TEST	ATT6/75	-	2007-02-19	2008-02-18
Resistance	EM TEST	R100	-	2007-02-19	2008-02-18
Electromagnetic Injection Clamp	LITTHI	EM101	35708	2007-02-19	2008-02-18
Inductive Components	EM TEST	MC2630	-	2007-02-19	2008-02-18
Antenna	EM TEST	MS100	-	2007-02-19	2008-02-18
Signal Generator	ROHDE&SCHWARZ	SMT03	100029	2007-02-05	2008-02-04
Power Amplifier	AR	150W1000	300999	2007-02-05	2008-02-04
Field probe	Holaday	HI-6005	105152	2007-02-05	2008-02-04
Bilog Antenna	Chase	CBL6111C	2576	2007-02-05	2008-02-04
Loop Antenna	EMCO	6502	00042960	2007-02-05	2008-02-04
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2007-08-16	2008-08-15
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2007-02-05	2008-02-04
3m OATS	--	--	N/A	2007-02-05	2008-02-04
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-631	2007-07-03	2008-07-02
Spectrum Analyzer	ROHDE&SCHWARZ	FSEM	8485971001	2007-06-05	2008-06-04

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	N/A	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249

4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co.,Ltd

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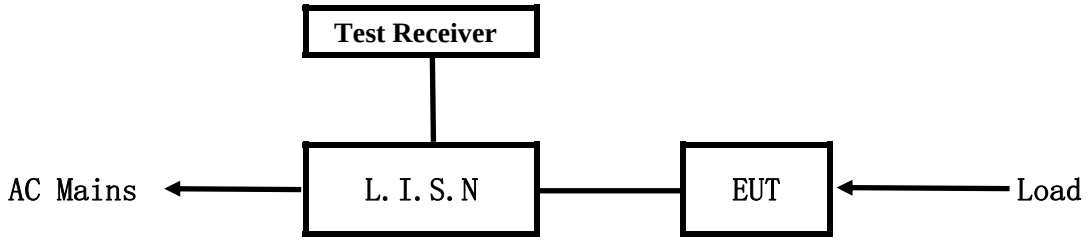
5. Power Line Conducted Emission Test

5.1 Schematics of the test

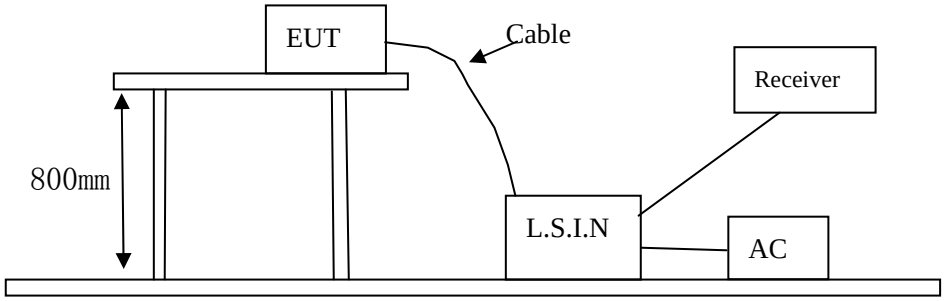


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2001.The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2001.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2001. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
Wireless Mouse	Shenzhen Weijian Plastics Co., Ltd	W3012RF	SJ6MWJ20070905

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

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Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2001.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency(MHz)	Class A Limits (dB μ V)		Class B Limits (dB μ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ～ 0.50	79.0	66.0	66.0～56.0*	56.0～46.0*
0.50 ～ 5.00	73.0	60.0	56.0	46.0
5.00 ～ 30.00	73.0	60.0	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: Due to powered by 2psc AAA battery, this test item not applicable

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6 Radiated Emission Test

6.1 Test Method and test Procedure:

(1) The EUT was tested according to ANSI C63.4 –2001. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988

(2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2001.

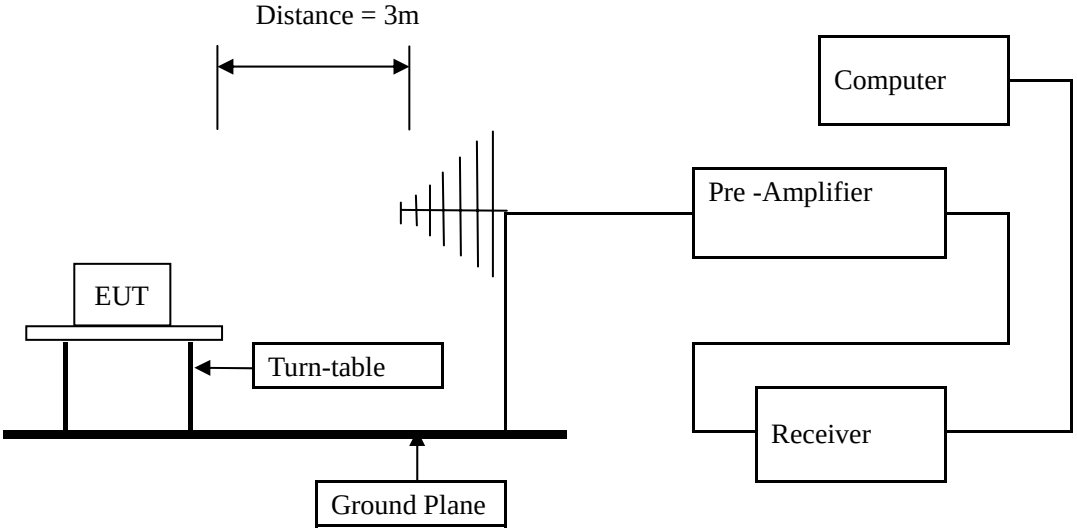
(3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.

(4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.

(5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.

(6) The antenna polarization : Vertical polarization and Horizontal polarization.

Block diagram of Test setup



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
	mV/m	**dBuV/m**		**uV/m**	**dBuV/m**	
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note: 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)

2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

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6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Product:	Wireless Mouse	Test Mode:	Low Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	3VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2410.130	77.3/55.5	H	114/94	-36.7/-38.5
2410.130	78.4/57.5	V	114/94	-35.6/-36.5
4819.509	52.7/42.4	H	74/54	-21.3/-11.6
4819.509	52.8/40.7	V	74/54	-21.2/-13.3
7230	--	H/V	74/54	--
9640	--	H/V	74/54	--
12050	--	H/V	74/54	--
14460	--	H/V	74/54	--
16870	--	H/V	74/54	--
19280	--	H/V	74/54	--
21690	--	H/V	74/54	--
24100	--	H/V	74/54	--

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TEST REPORT

Product:	Wireless Mouse	Test Mode:	Middle Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	3VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2442.607	87.6/66.7	H	114/94	26.4/-27.3
2442.607	89.5/68.7	V	114/94	-24.5/-25.3
4884.449	52.6/45.3	H	74/54	-21.4/-8.7
4884.449	53.4/43.4	V	74/54	-20.6/-10.6
7326	--	H/V	74/54	--
9768	--	H/V	74/54	--
12210	--	H/V	74/54	--
14652	--	H/V	74/54	--
17094	--	H/V	74/54	--
19536	--	H/V	74/54	--
21978	--	H/V	74/54	--
24420	--	H/V	74/54	--

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TEST REPORT

Product:	Wireless Mouse	Test Mode:	High Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	3VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2475.731	84.0/63.9	H	114/94	-30.0/-30.1
2475.731	87.5/67.6	V	114/94	-26.5/-26.4
4951.453	50.9/36.0	H	74/54	-23.1/-18.0
4951.453	53.2/37.5	V	74/54	-20./-16.5
7425	--	H/V	74/54	--
9900	--	H/V	74/54	--
12375	--	H/V	74/54	--
14850	--	H/V	74/54	--
17325	--	H/V	74/54	--
19800	--	H/V	74/54	--
22275	--	H/V	74/54	--
24750	--	H/V	74/54	--

Note: (1) PK= Peak, AV= Average

(2) Emission Level = Reading Level + Probe Factor + Cable Loss.

(3)Margin=Emission-Limits

(4)According to section 15.35(b), the peak limit is 20dB higher than the average limit

(5) Due to measured PK value less than the AV limit, the measured AV value must be less than AV limit

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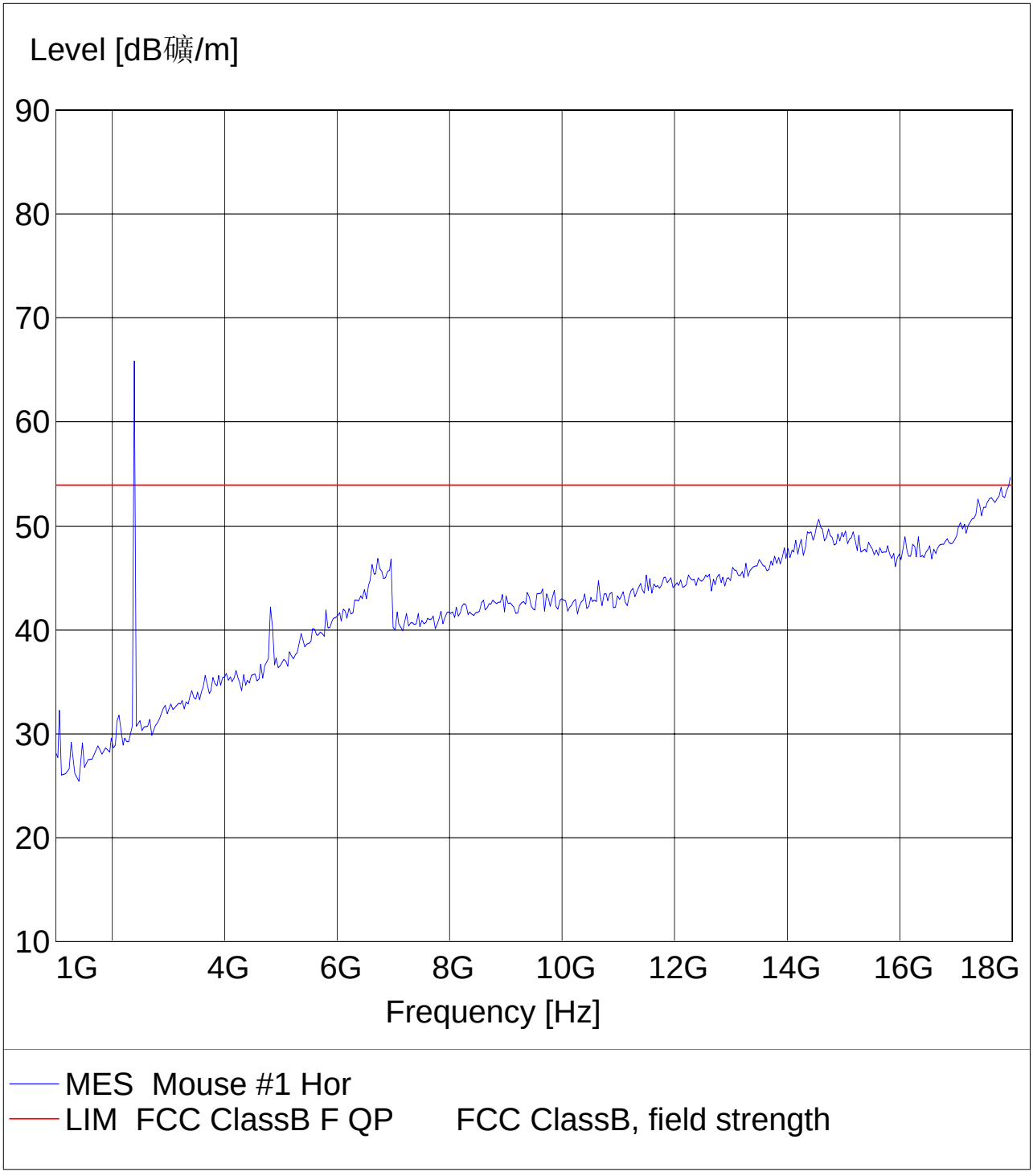
Test Figure above 1G

Low Channel

Horizontal



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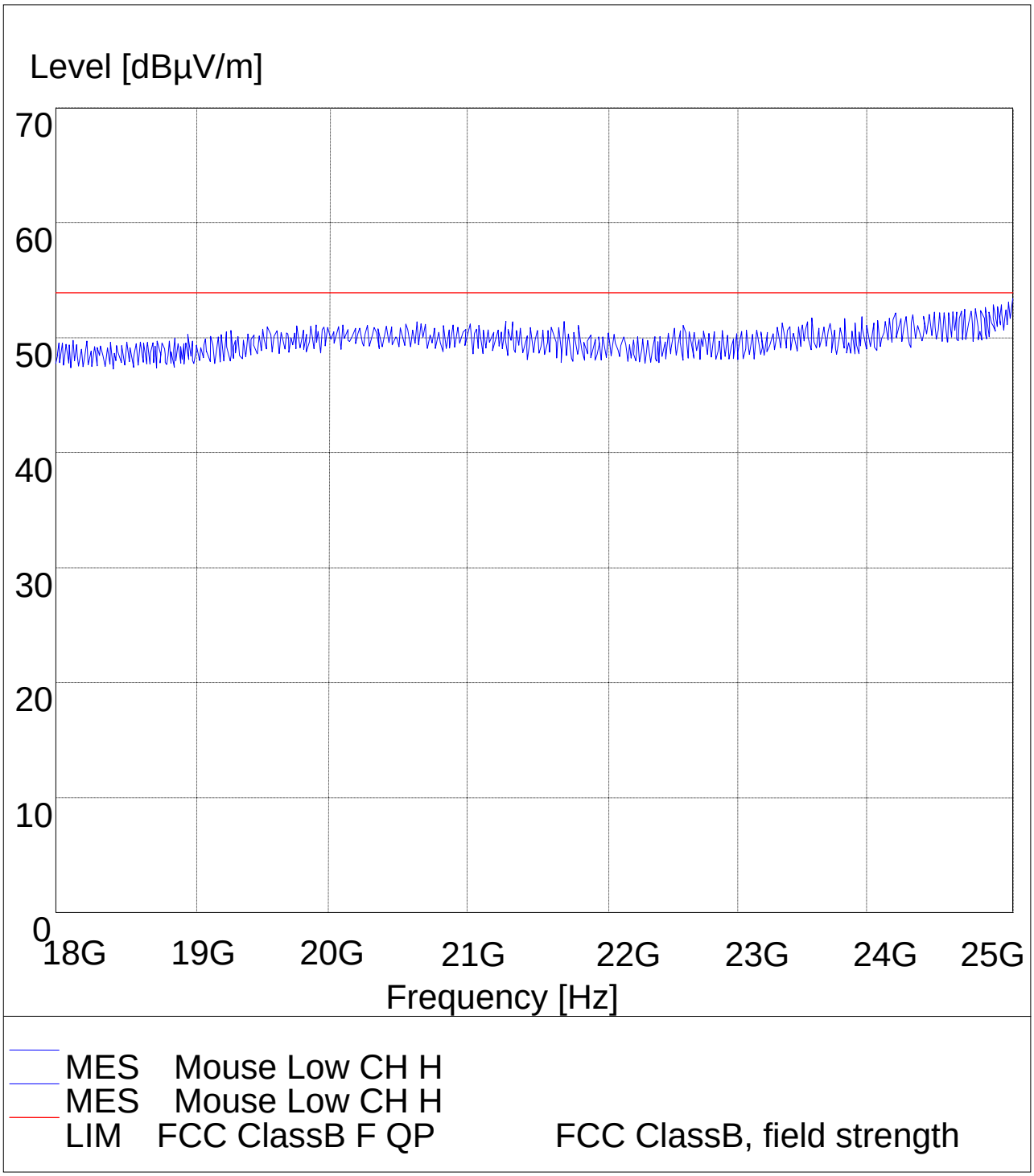
18-25G



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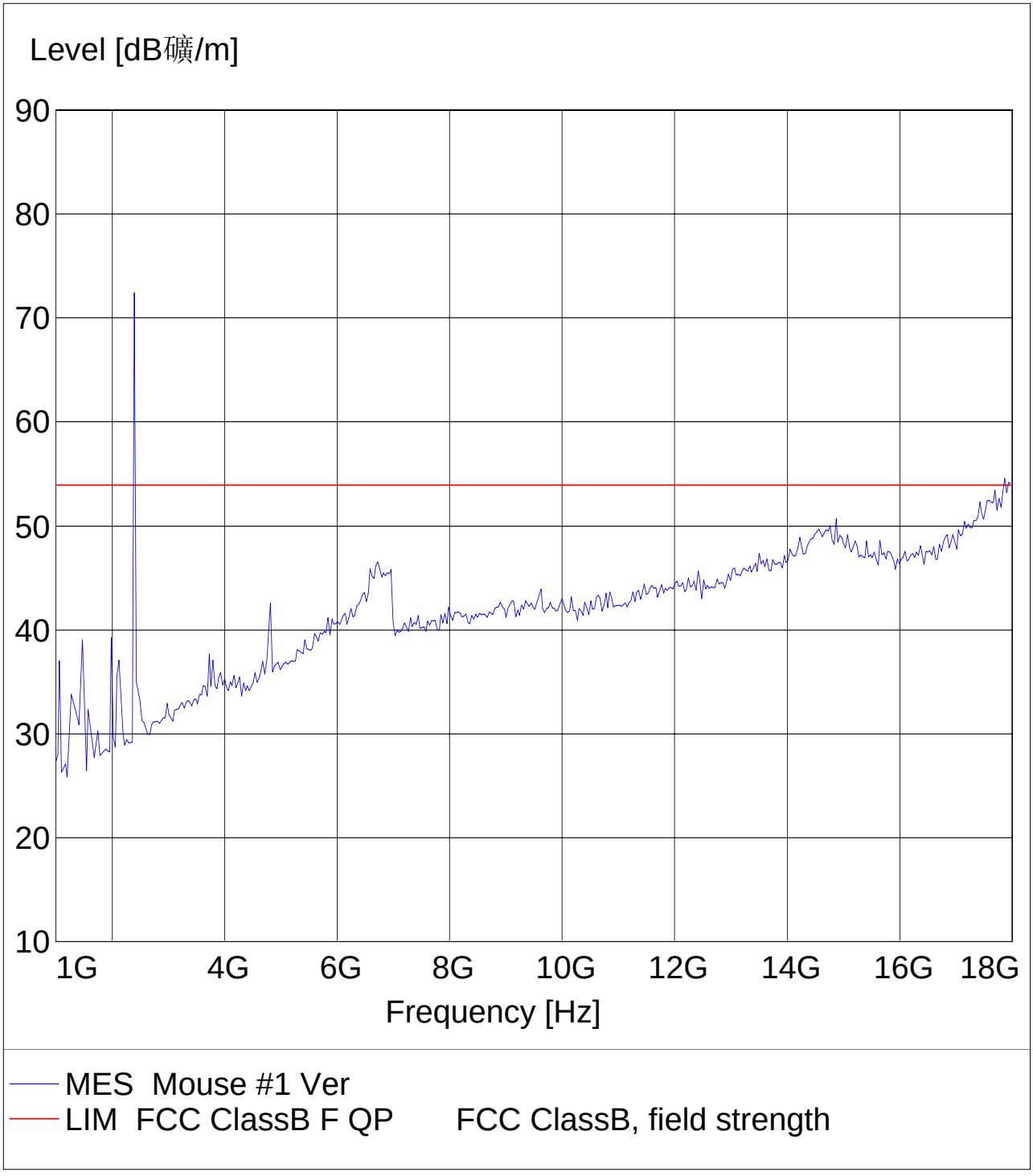
Low Channel

Vertical



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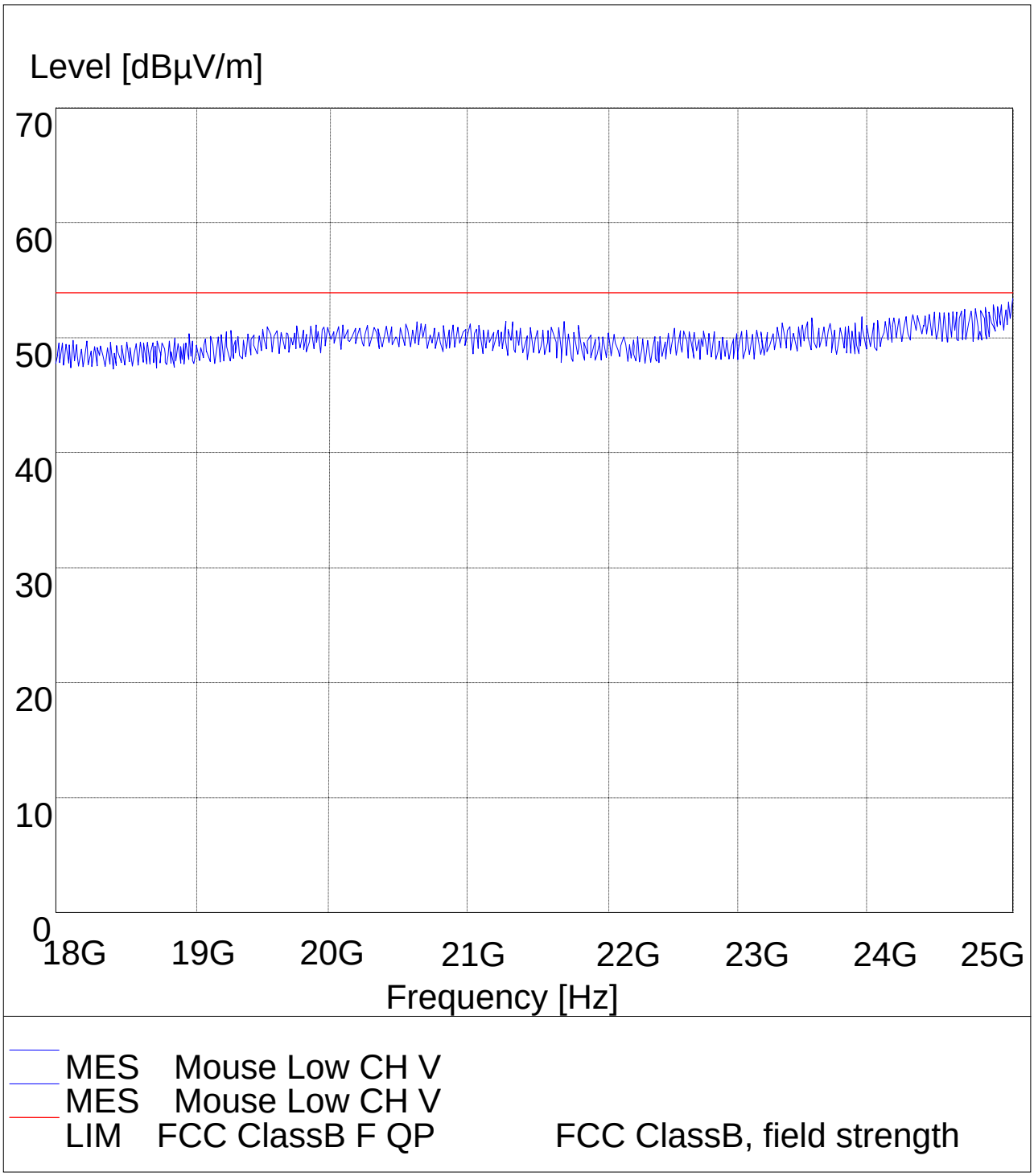

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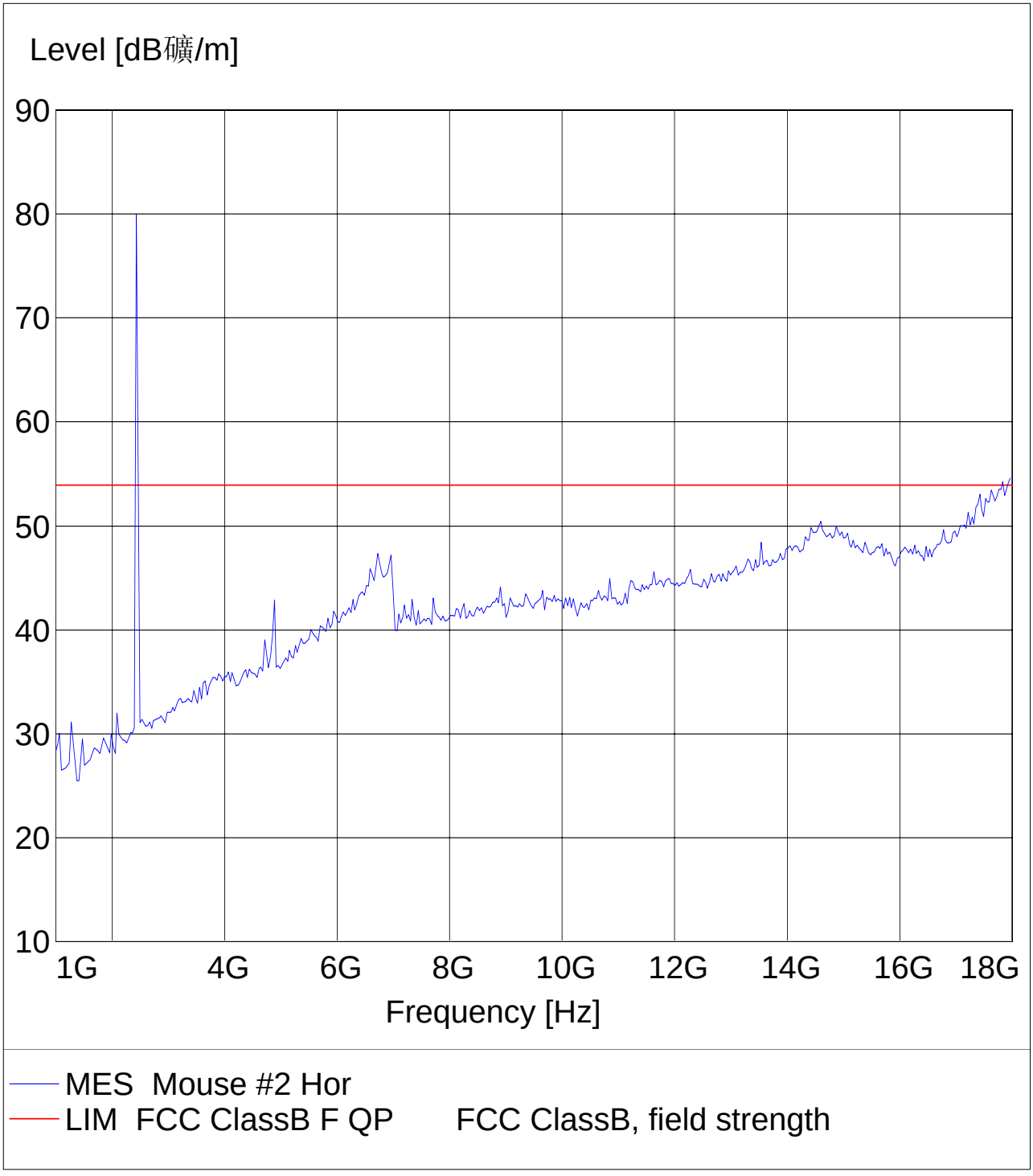
Middle Channel

Horizontal



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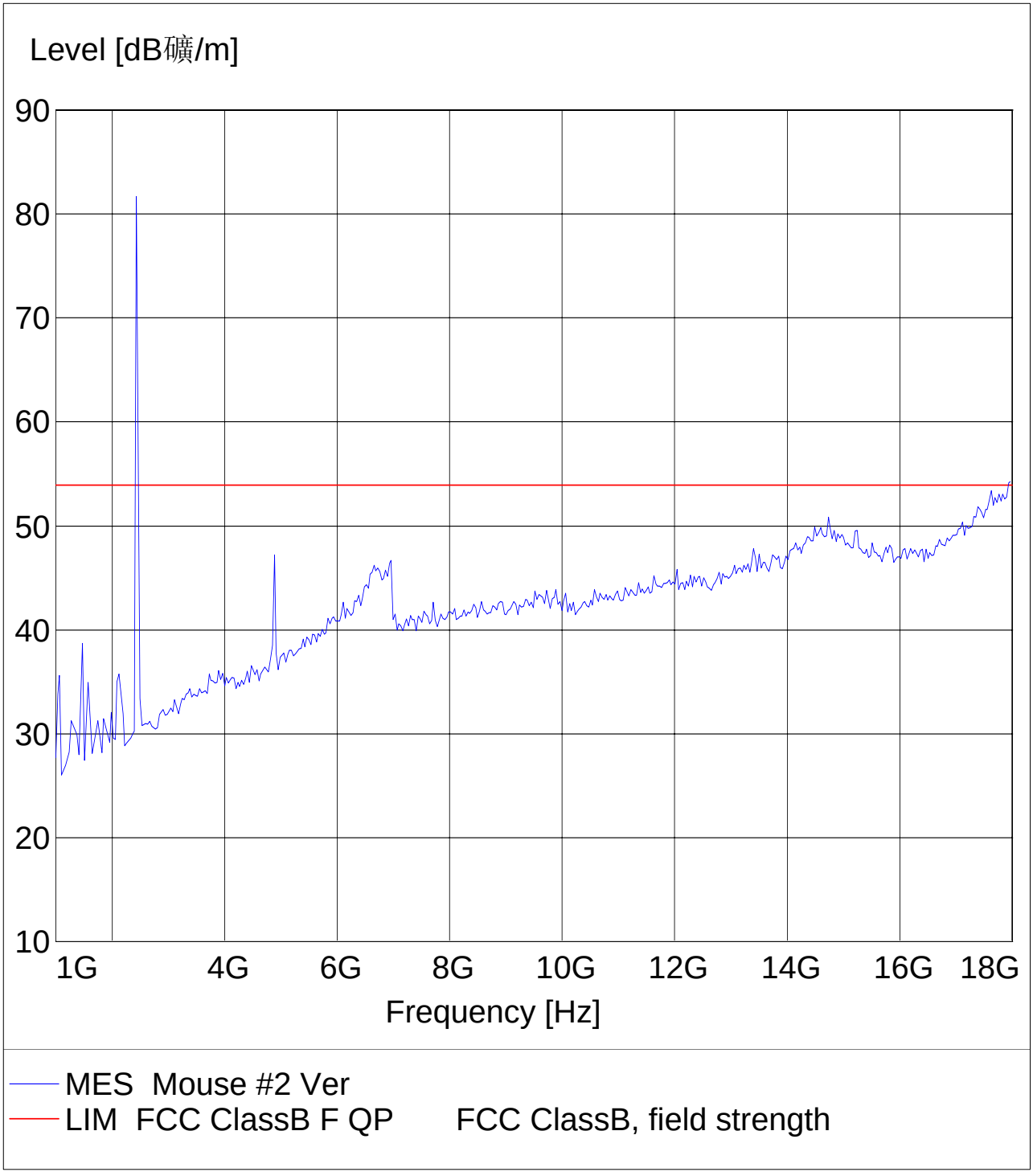
Middle Channel

Vertical



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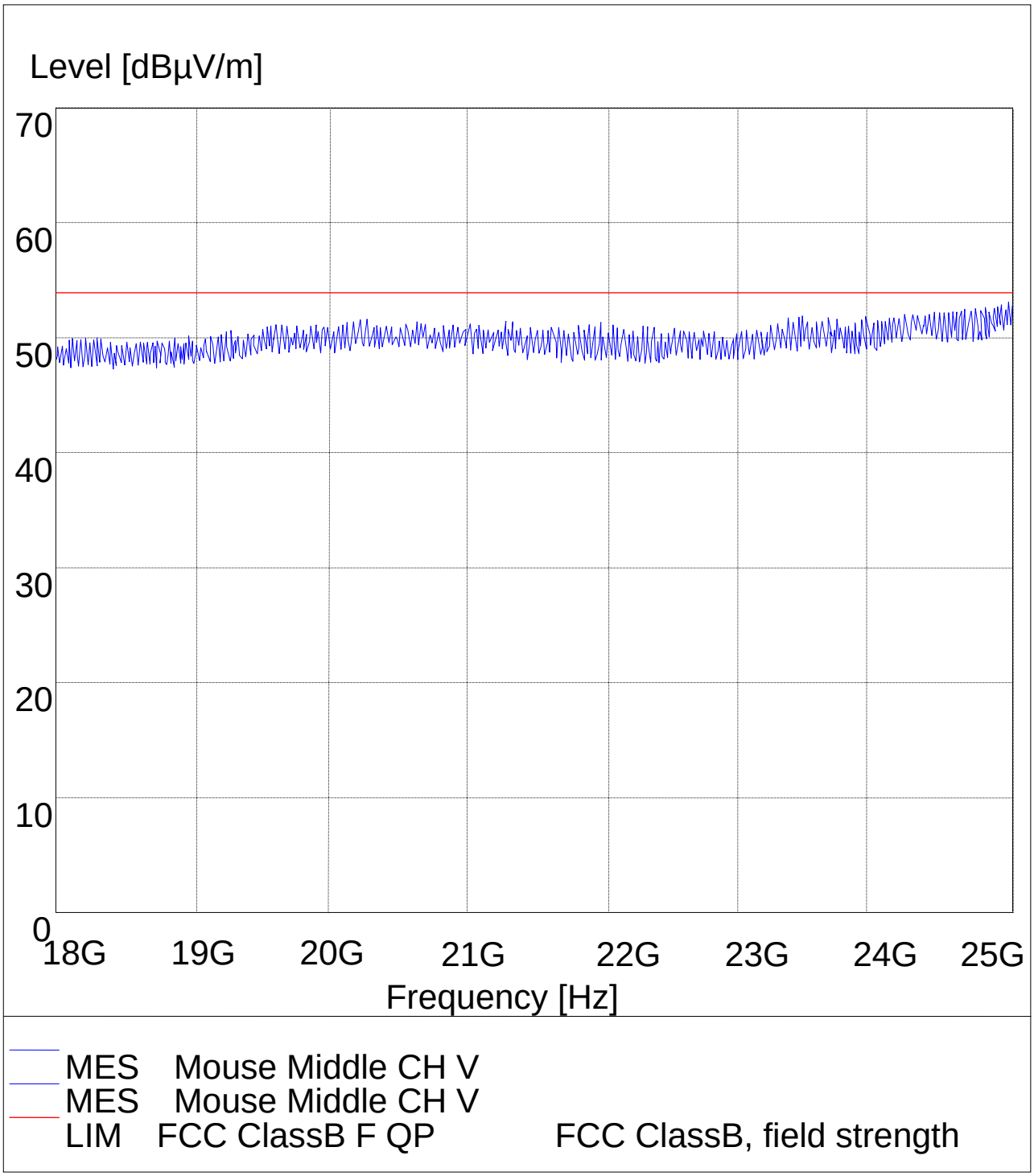

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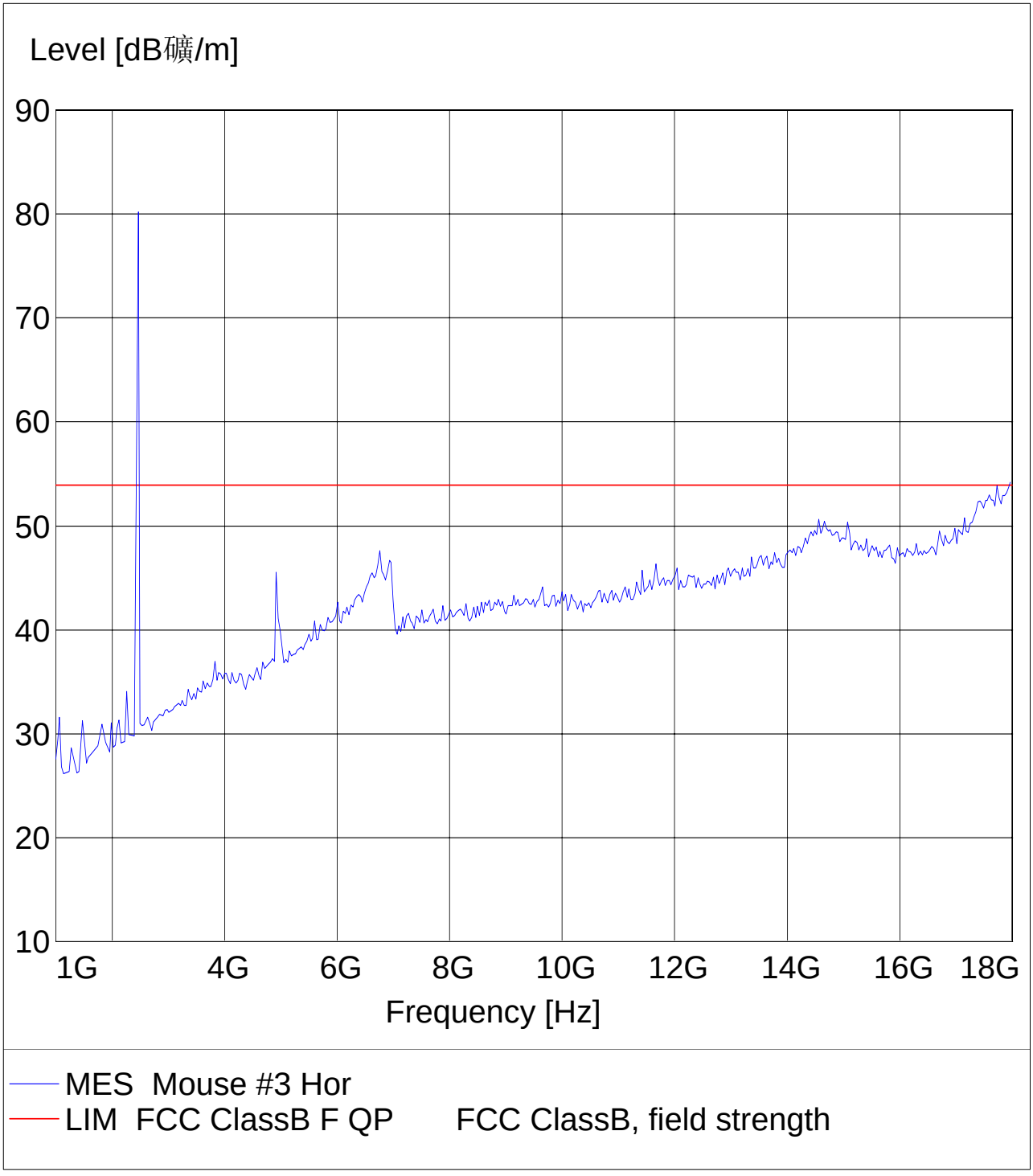
High Channel

Horizontal



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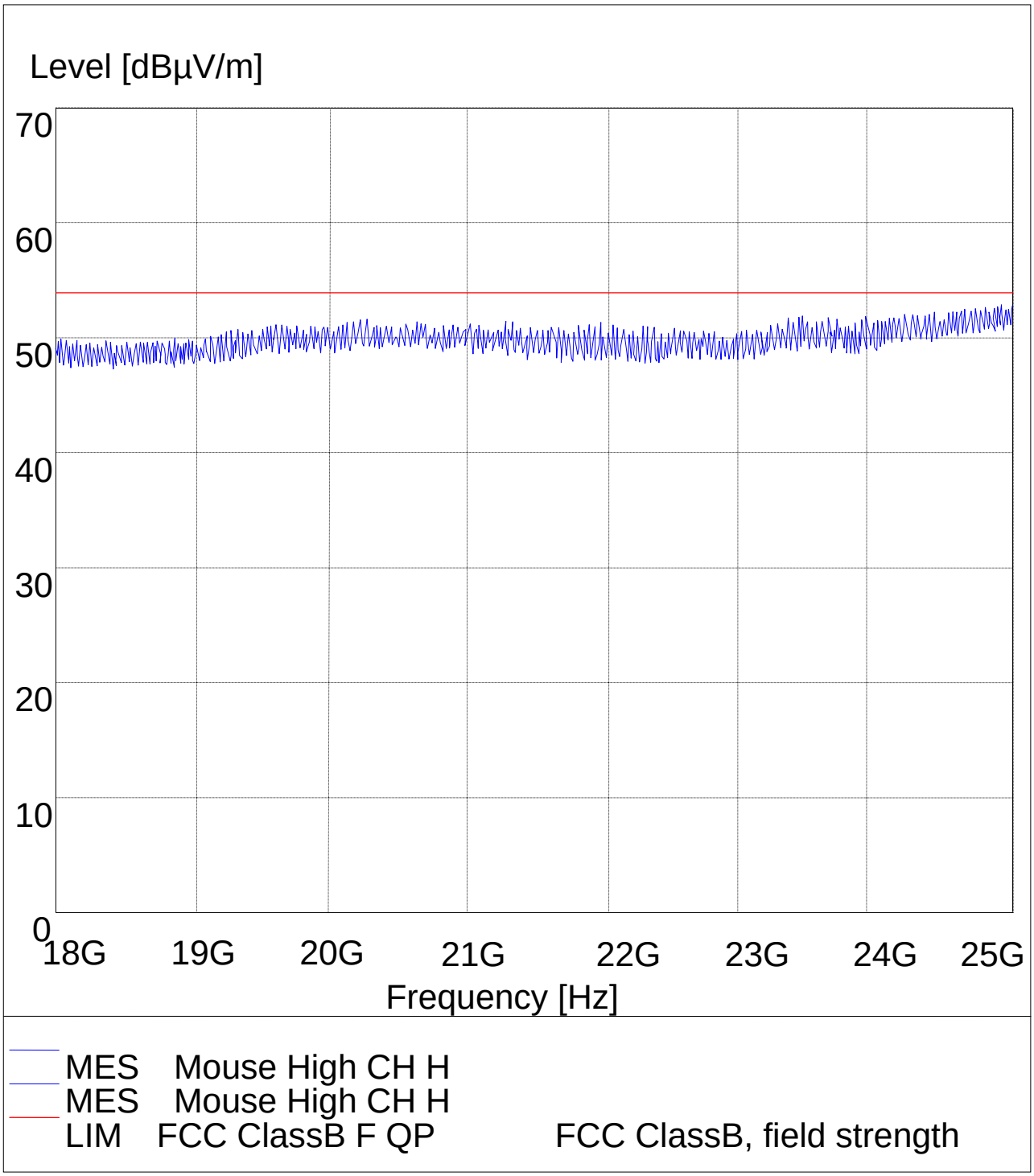

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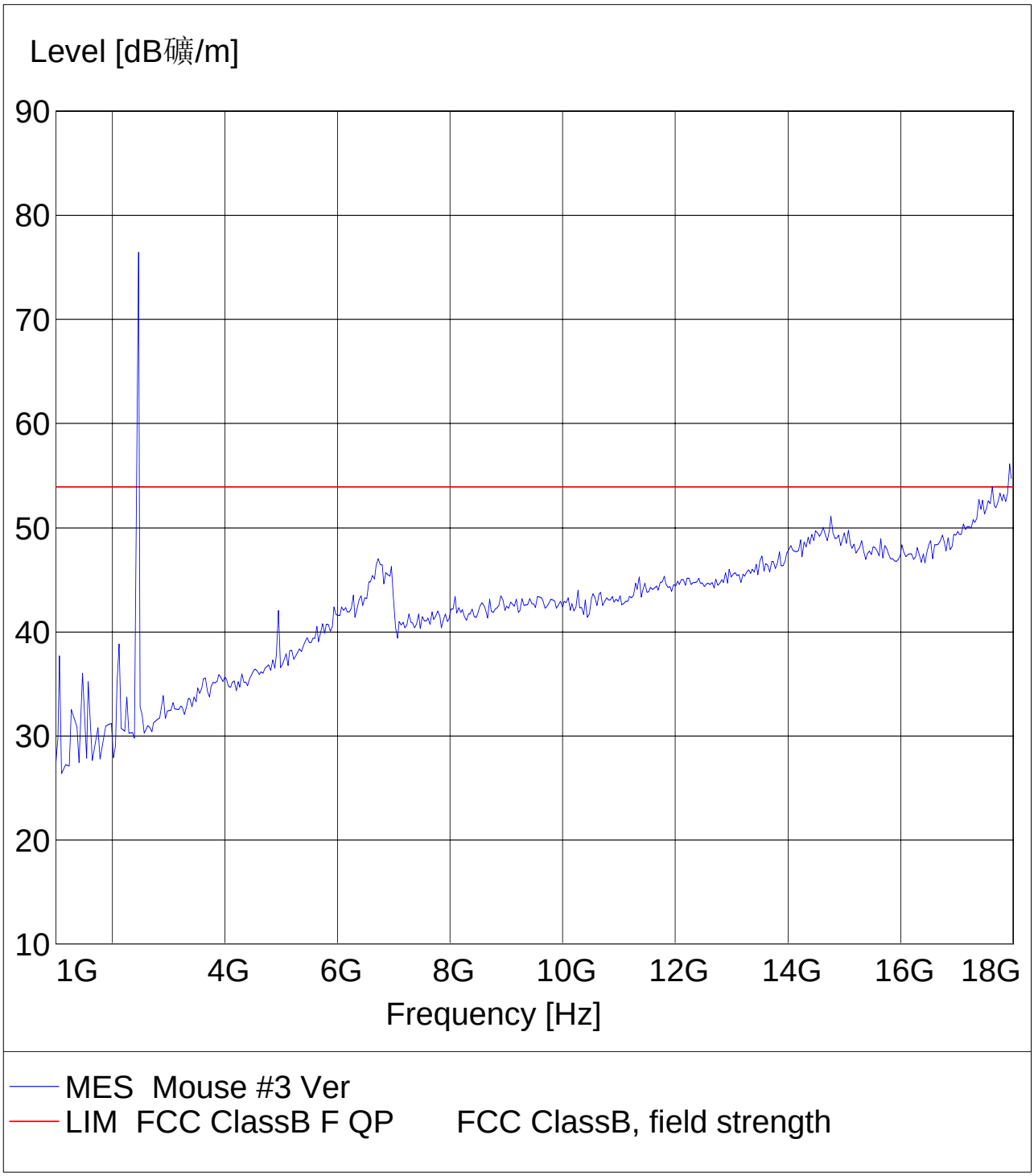
High Channel

Vertical



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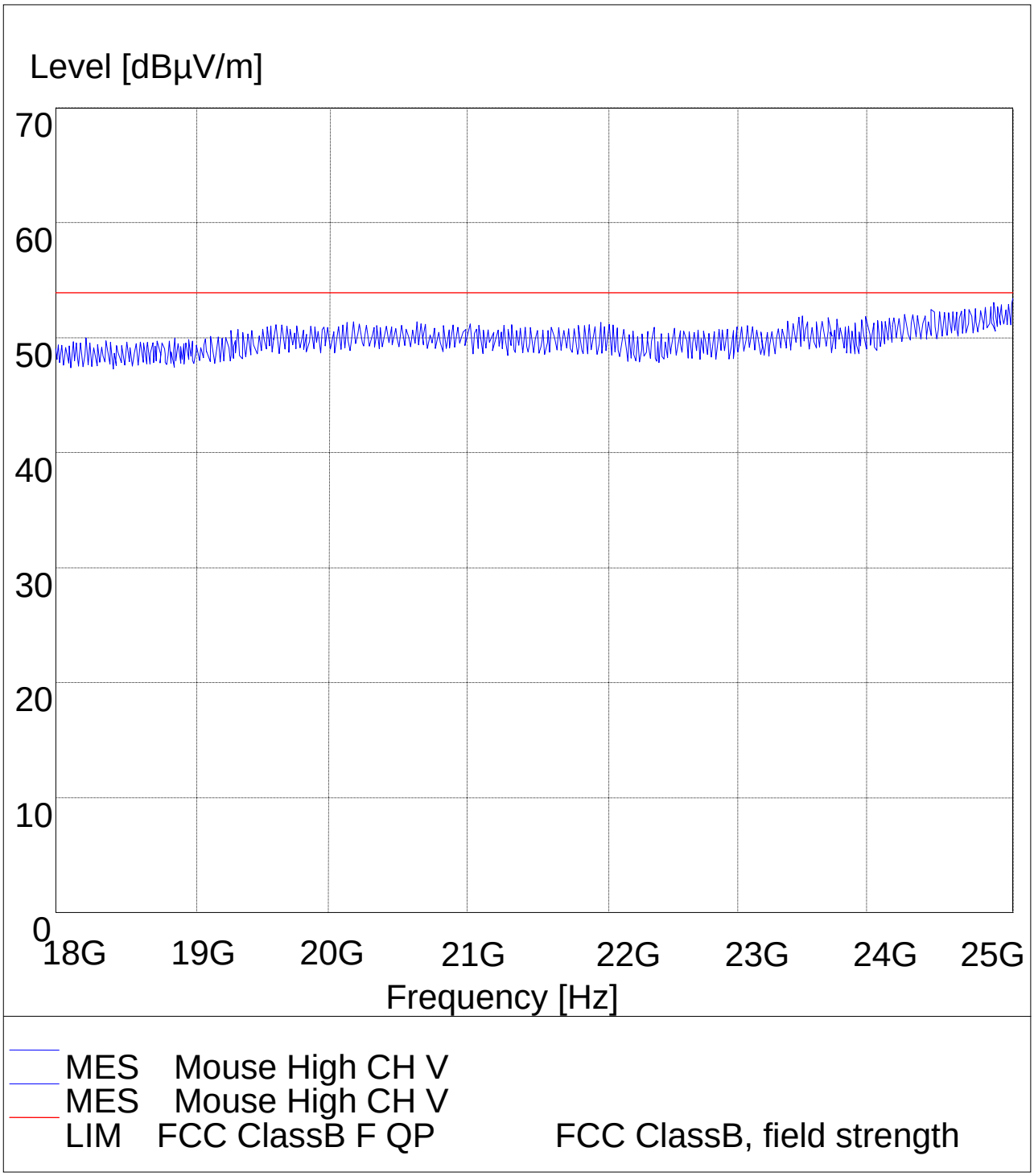

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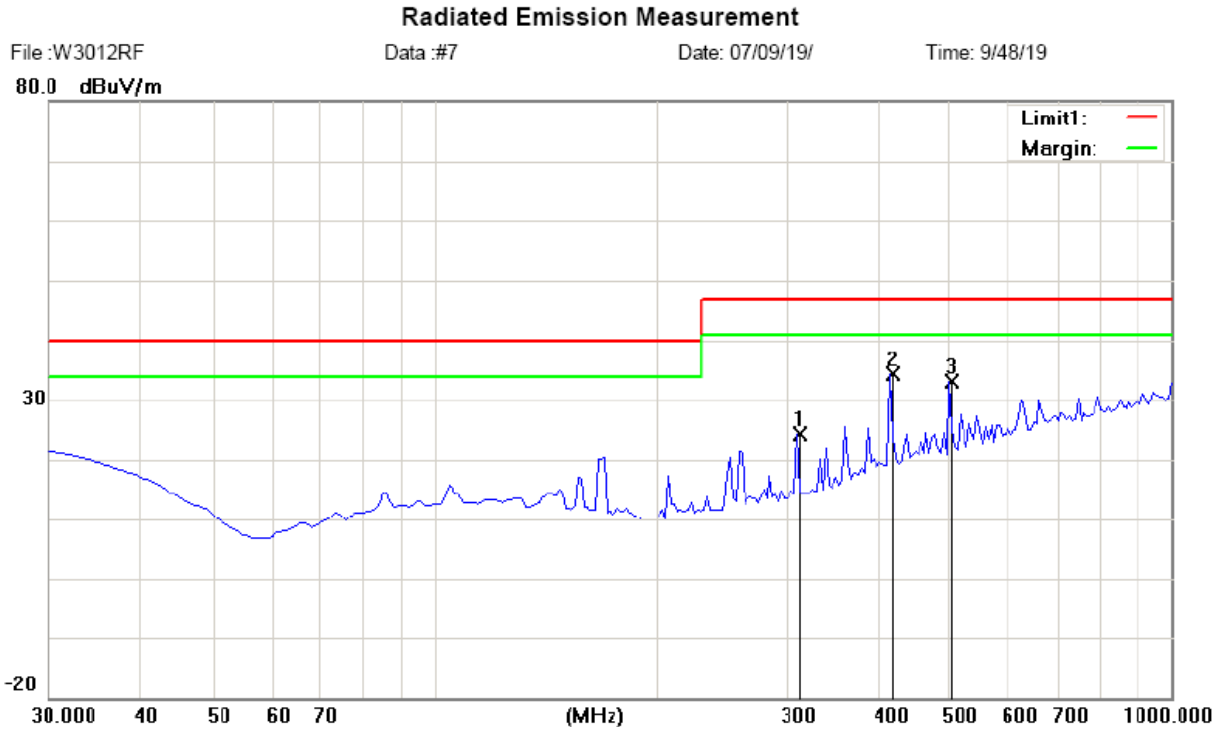
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Mode: Low Channel

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
313.725	24.34	H	46.00
418.000	34.38	H	46.00
500.450	33.19	H	46.00

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B. **General Radiated Emission Data**

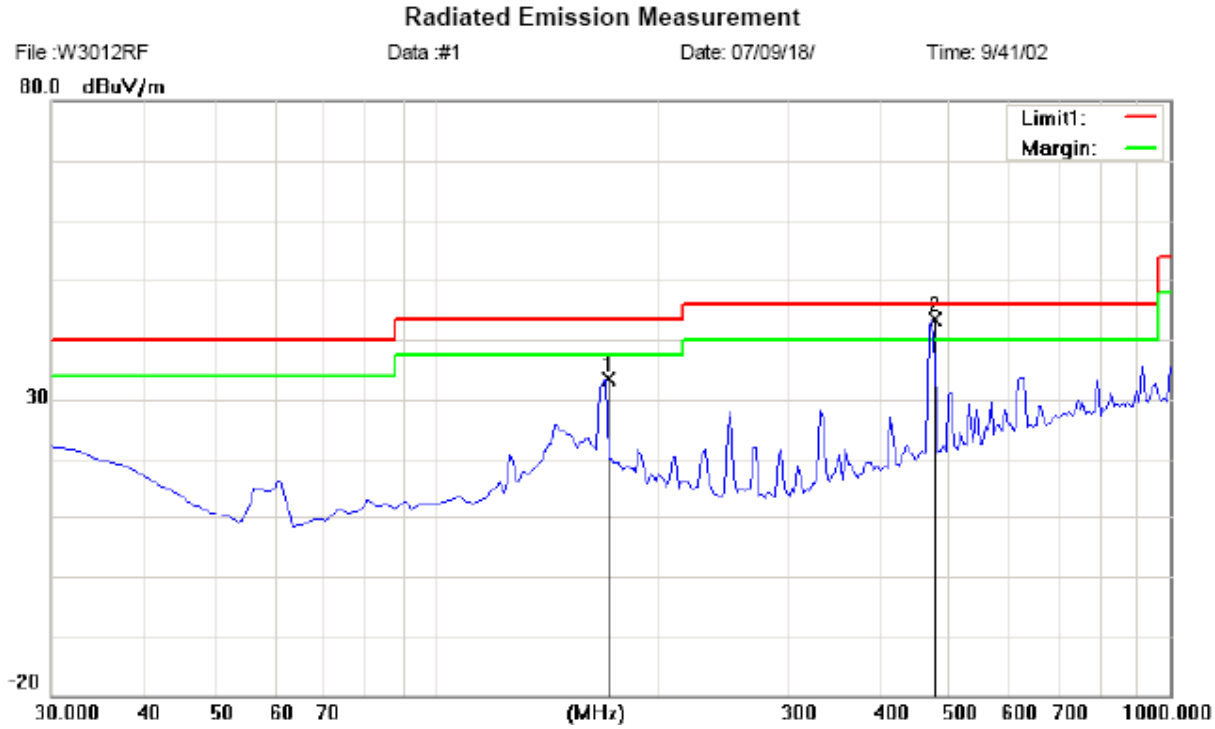
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Mode: Low Channel

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
170.65	33.43	V	43.50
478.625	43.30	V	46.00

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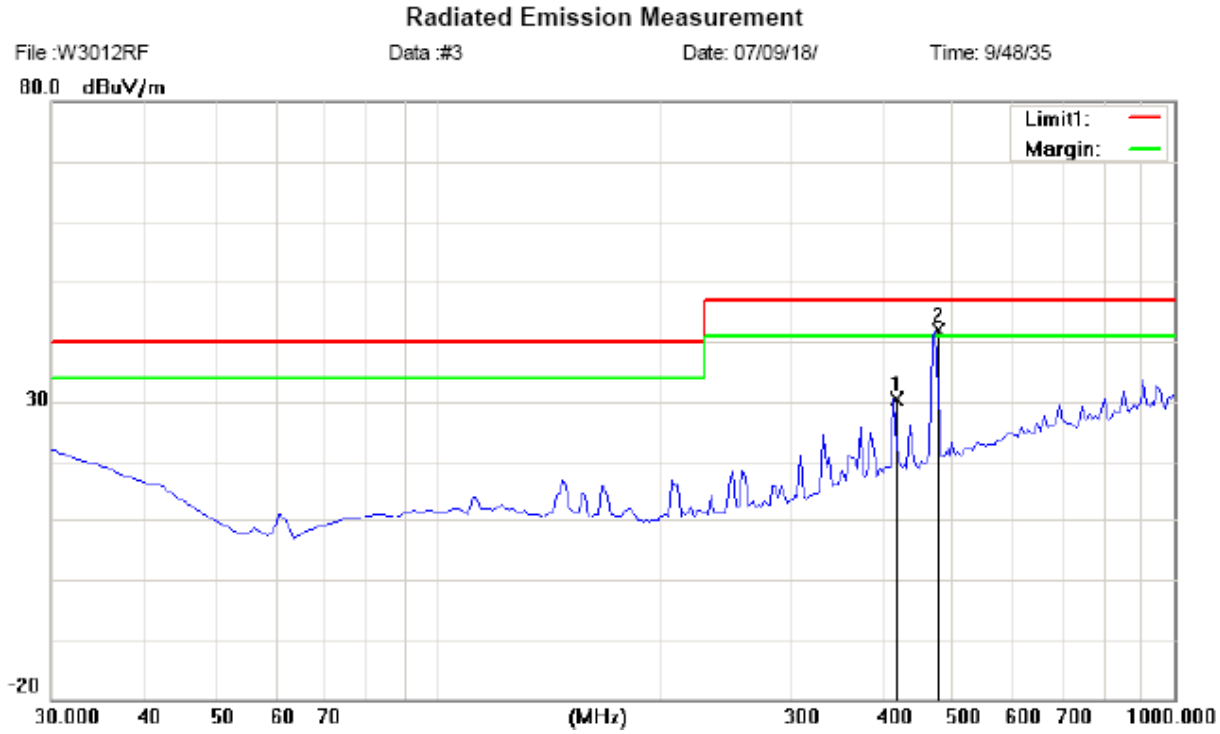
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Mode: Middle Channel

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
418.00	30.28	H	46.00
476.20	42.00	H	46.00

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B. **General Radiated Emission Data**

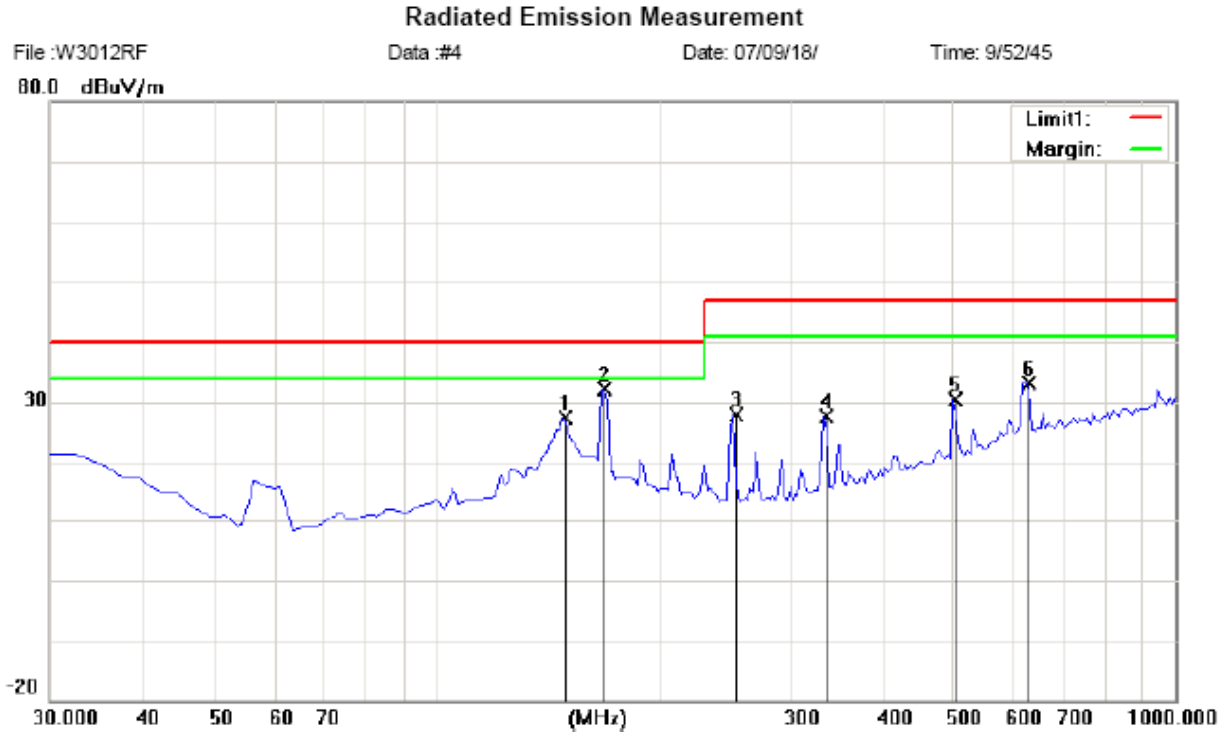
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Mode: Middle Channel

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
148.825	27.50	V	43.50
168.225	32.18	V	43.50
253.100	27.92	V	46.00
335.550	27.60	V	46.00
502.875	30.49	V	46.00
633.825	33.06	V	46.00

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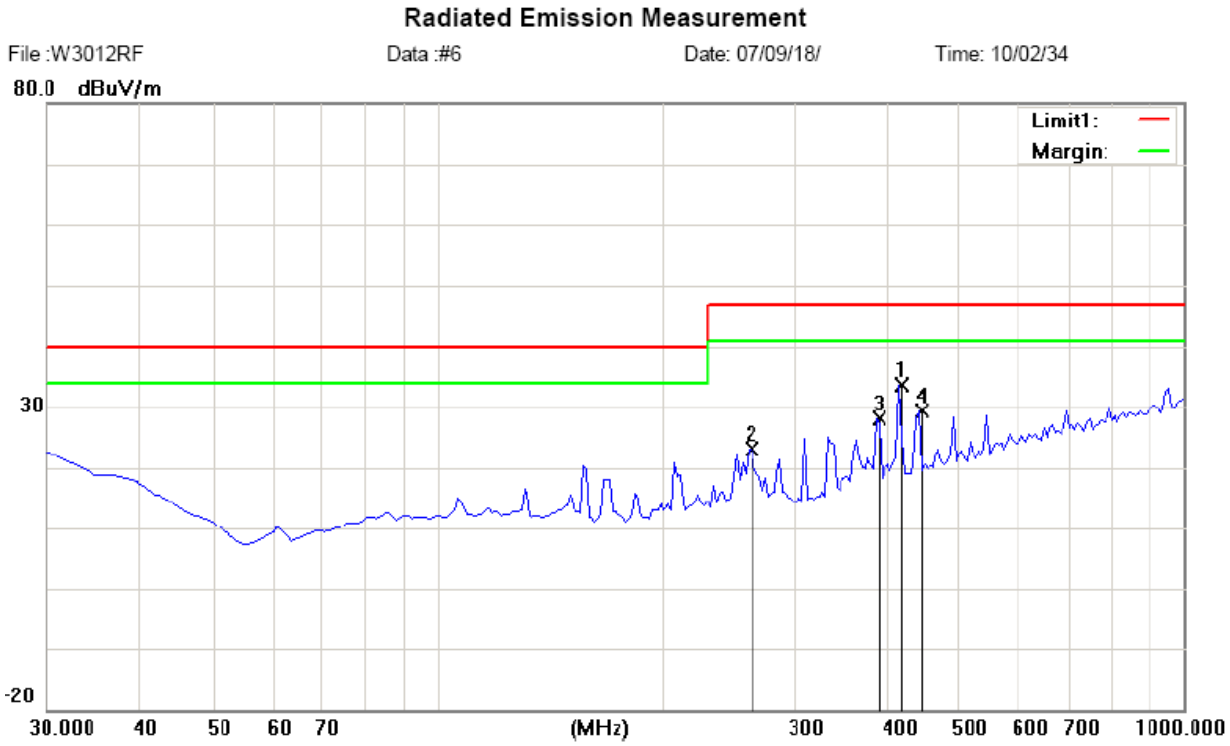
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Mode: High Channel

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
418.00	33.64	H	43.50
262.8	23.03	H	46.00
391.325	28.19	H	46.00
444.675	29.40	H	46.00

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B. **General Radiated Emission Data**

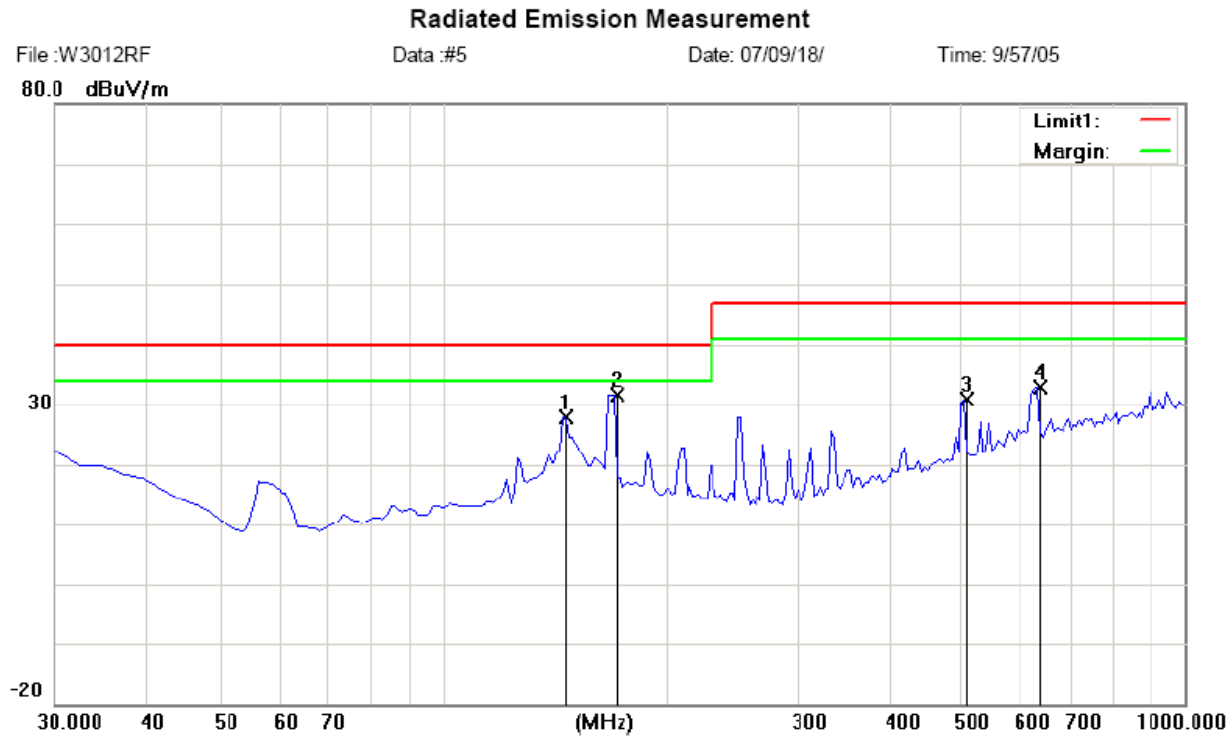
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Mode: High Channel

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
146.4	27.95	V	43.50
170.65	31.57	V	43.50
505.30	30.85	V	46.00
636.25	32.99	V	46.00

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7. Band Edge

7.1 Test Method and test Procedure:

(1) The EUT was tested according to ANSI C63.4 –2001. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988

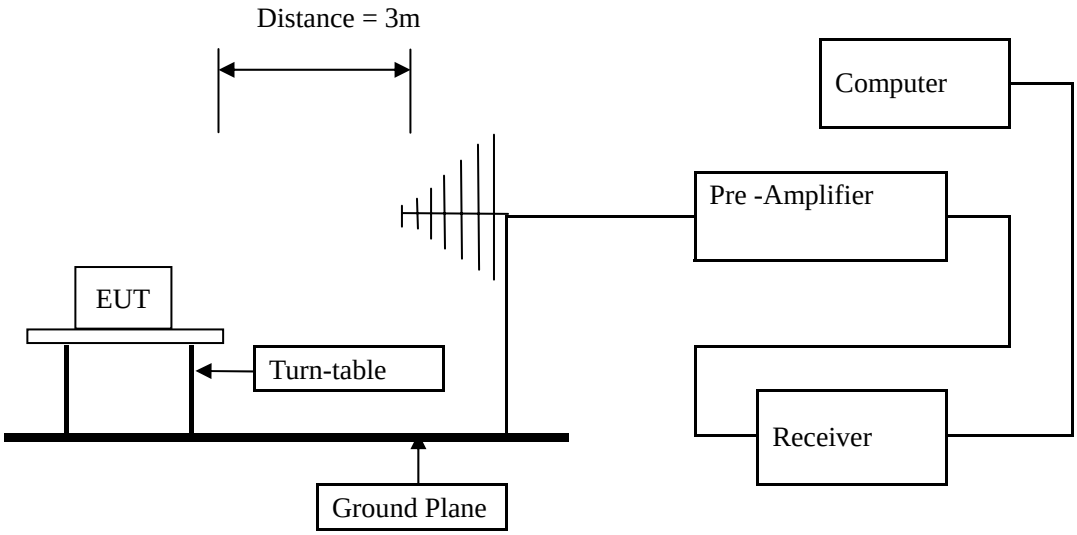
(2) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz , peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.

(3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.

(4) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.

(5) The antenna polarization : Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

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7.5 Band Edge Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 50dB below that in the 100kHz, 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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

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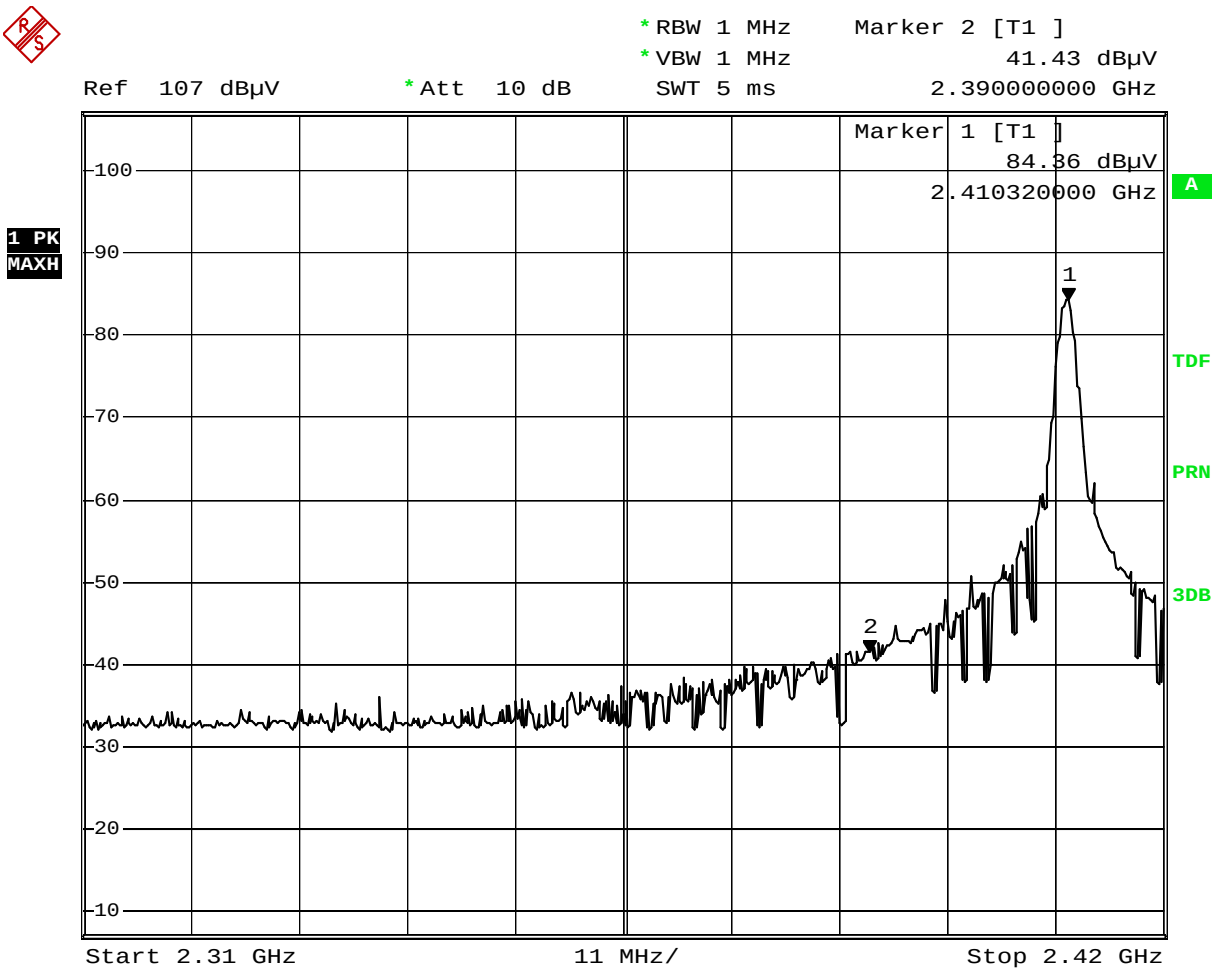
7.6 Band Edge Test Result

Product:	Wireless Mouse	Test Mode:	Low Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	3VDC	Humidity:	56%
Test Result:	Pass	Detector	PK

Test Figure:



Date: 20.SEP.2007 09:49:41

Note (Peak)

The band edge emission plot on the following first page shows 42.93dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of high channel is 78.4dBuV/m (Peak), so the maximum field strength in restrict band is 78.4-42.93=35.47dBuV/m which is under 74dBuV/m limit.

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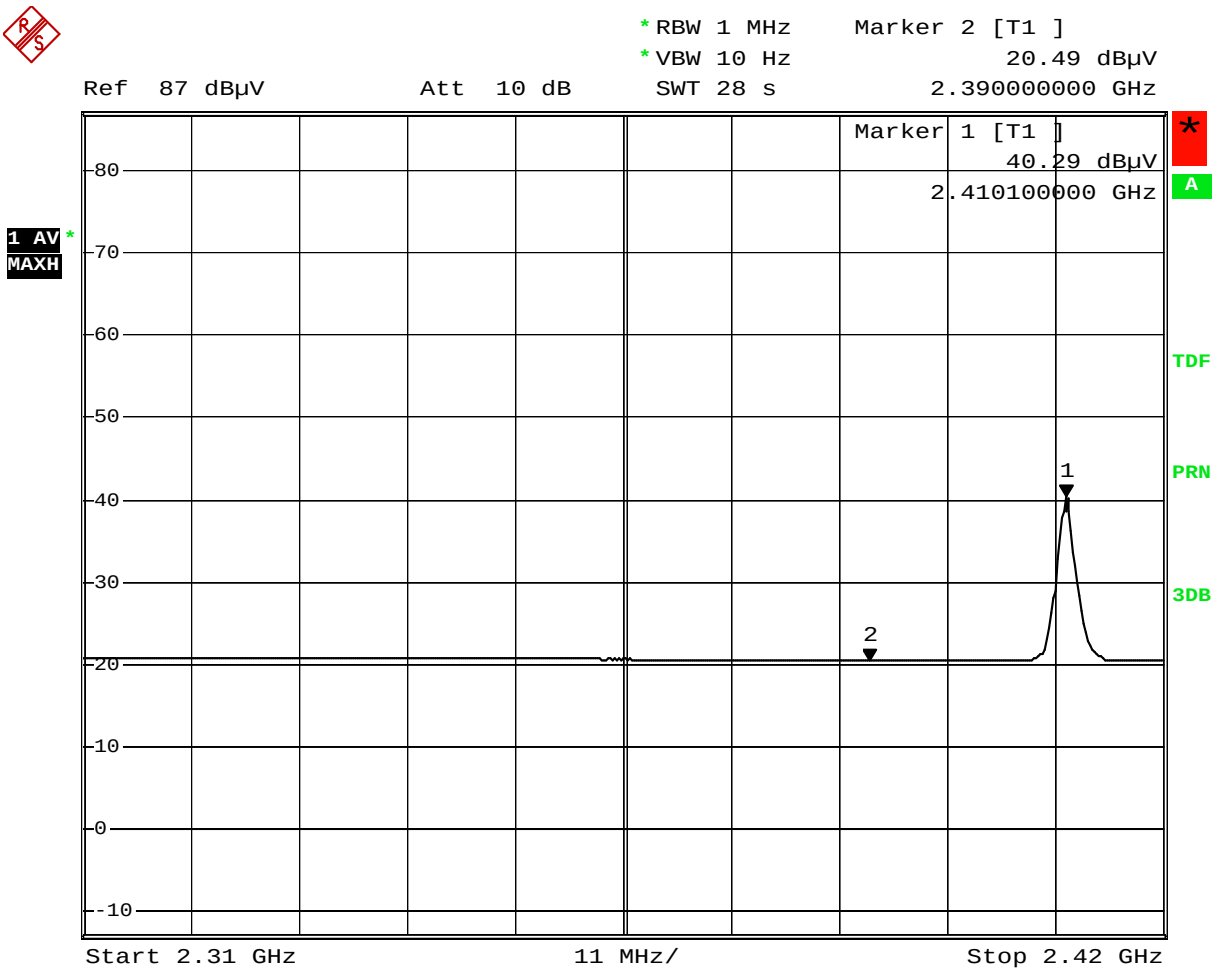
7.6 Band Edge Test Result

Product:	Wireless Mouse	Test Mode:	Low Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	3VDC	Humidity:	56%
Test Result:	Pass	Detector	AV

Test Figure:



Note (Average):

The band edge emission plot on the following second page shows 19.8dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of high channel is 57.5dBuV/m (Average), so the maximum field strength in restrict band is 57.5-19.8=37.7dBuV/m which is under 54dBuV/m limit.

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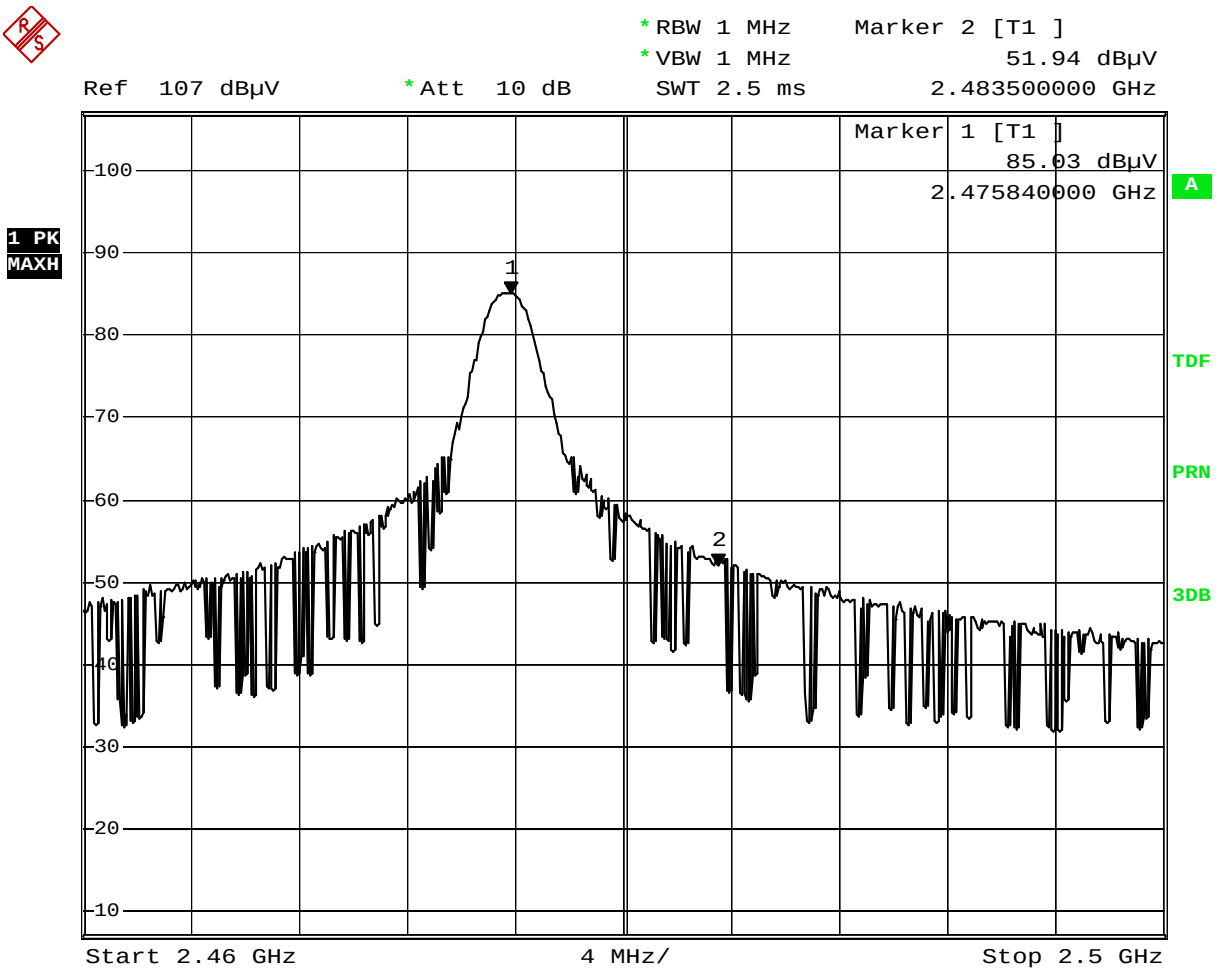
7.6 Band Edge Test Result

Product:	Wireless Mouse	Test Mode:	High Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	3VDC	Humidity:	56%
Test Result:	Pass	Detector	PK

Test Figure:



Date: 20.SEP.2007 09:34:44

Note (Peak)

The band edge emission plot on the following first page shows 33.09dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of high channel is 87.5dBuV/m (Peak), so the maximum field strength in restrict band is 87.5-33.09=54.41dBuV/m which is under 74dBuV/m limit.

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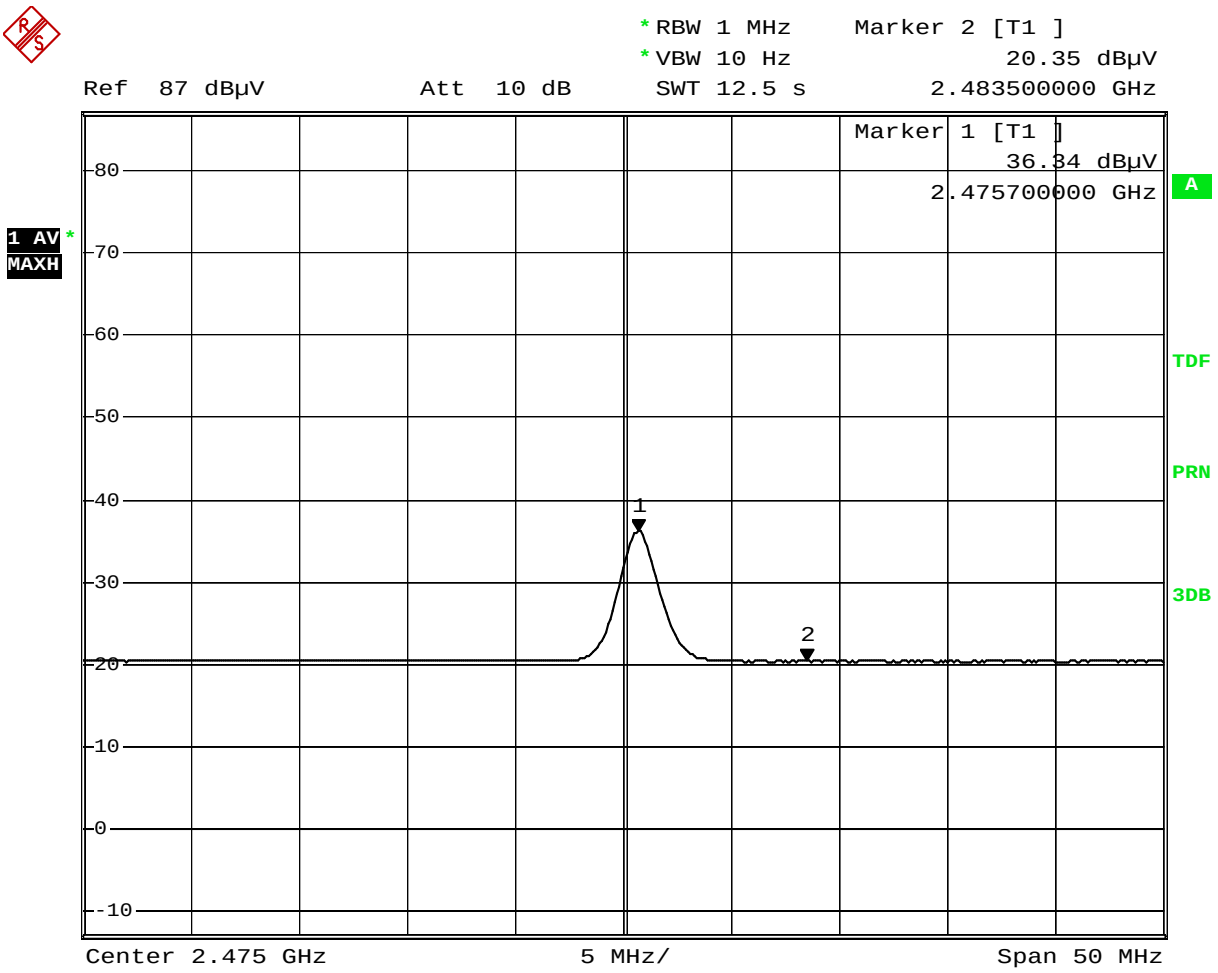
7.6 Band Edge Test Result

Product:	Wireless Mouse	Test Mode:	High Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	3VDC	Humidity:	56%
Test Result:	Pass	Detector	AV

Test Figure:



Note (Average):

The band edge emission plot on the following second page shows 15.99dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of high channel is 67.6dBuV/m (Average), so the maximum field strength in restrict band is 67.6-15.99=51.61dBuV/m which is under 54dBuV/m limit.

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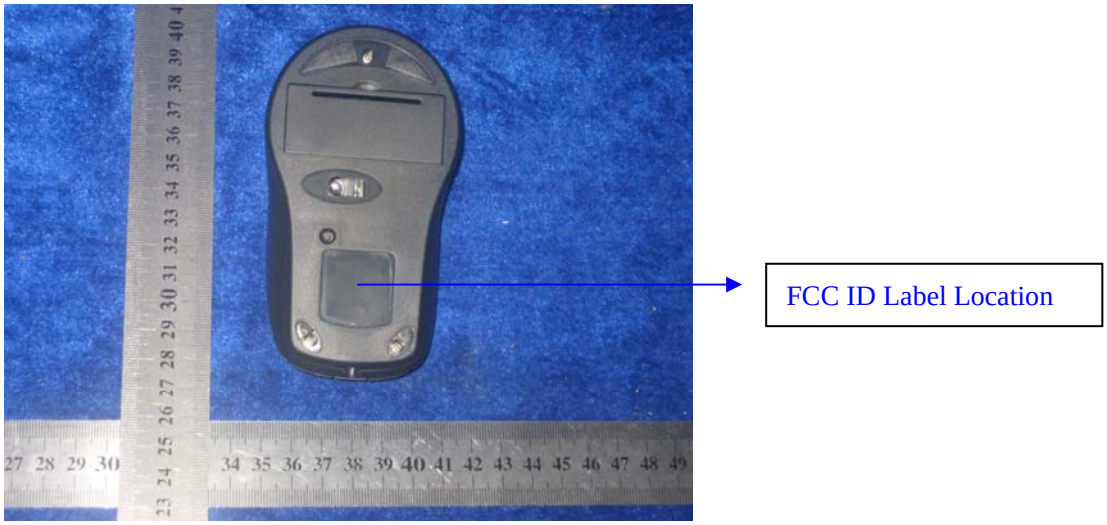
8.0 FCC ID Label

FCC ID: SJ6MWJ20070905

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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9.0 Photo of testing

9.1 Conducted test View--

N/A

9.2 Radiated emission test view

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9.3 Photo for the EUT

Outside View

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Outside View

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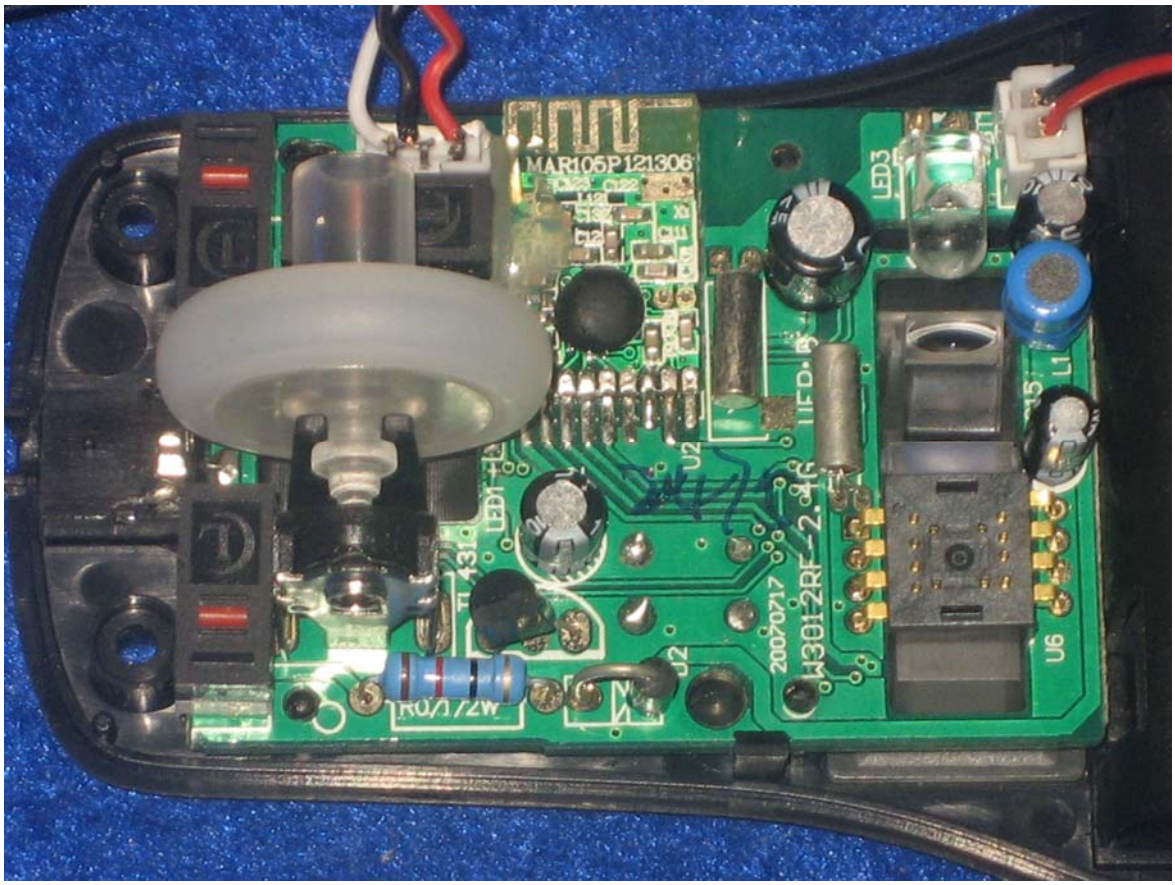
Interior View



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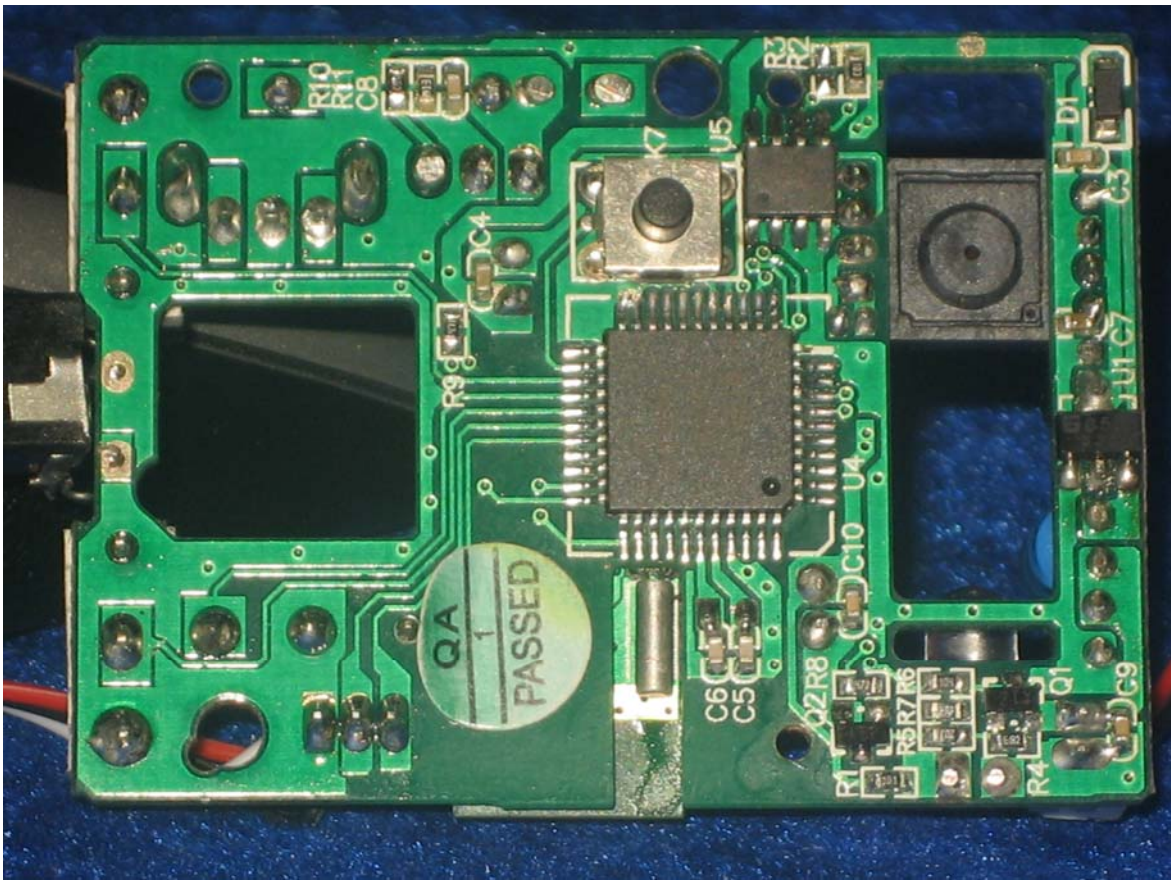
Interior View



--End of the report--

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