



FCC ID:FSUKM017

AUDIX Technology (Shenzhen) Co., Ltd.

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

KYE SYSTEMS CORP.

Mouse

Model Number: A79M, KM001W

FCC ID: FSUKM017

Prepared for : KYE SYSTEMS CORP.
No. 492, Sec. 5, Chongxin Rd., Sanchong Dist., New
Taipei City, Taiwan

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Date of Test : Sep.18~20, 2011
Date of Report : Sep.26, 2011

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FCC ID:FSUKM017

AUDIX Technology (Shenzhen) Co., Ltd.

TEST REPORT CERTIFICATION

Applicant : KYE SYSTEMS CORP.
 Manufacturer : KYE SYSTEMS CORP.
 EUT Description : Mouse
 FCC ID : FSUKM017
 (A) MODEL NO. : A79M, KM001W
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 3V
 (D) TEST VOLTAGE : DC 3V

Tested for comply with:
FCC Rules and Regulations Part 15 Subpart C:2008

Test procedure used:
ANSI C63.10:2009

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Sep.18~20, 2011 Report of date: Sep.26, 2011

Prepared by : Blove Ye Reviewer by : [Signature]

Blove Ye/ Assistant  信華科技 (深圳) 有限公司
 Audix Technology (Shenzhen) Co., Ltd.

EMC 部門報告專用章

Stamp only for EMC Dept. Report

Signature: Ken Lu 10/3/11

Approved & Authorized Signer : Ken Lu / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15C: 15.207 ANSI C63.10-2009	N/A
Radiated Emission Test	FCC Part 15C: 15.209 FCC Part 15C: 15.249 ANSI C63.10-2009	PASS
Band Edge Compliance Test	FCC Part 15: 15.249 ANSI C63.10-2009	PASS
20dB Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10-2009	PASS

N/A is an abbreviation for Not Applicable.

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product Name : Mouse
Model Number : A79M, KM001W
The device contains two module numbers, A79M and KM001W. The difference between them is module number only.

FCC ID : FSUKM017

Operation frequency : 2405MHz~2480MHz

Antenna : Integrated PCB antenna, 0dBi gain

Modulation : O-QPSK

Power Supply : DC 3V

Applicant : KYE SYSTEMS CORP.
No. 492, Sec. 5, Chongxin Rd., Sanchong Dist., New Taipei City, Taiwan

Manufacturer : KYE SYSTEMS CORP.
No. 492, Sec. 5, Chongxin Rd., Sanchong Dist., New Taipei City, Taiwan

Date of Test : Sep.18~20, 2011

Date of Receipt : Sep.16, 2011

Sample Type : Prototype production

2.2. Tested Supporting System Details

N/A

2.3. EUT Configuration and operation conditions for test.

EUT

2.4. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block, Shenzhen
Science & Industrial Park, Nantou,
Shenzhen, Guangdong, China

3m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 90454
Valid Date: Mar.31, 2012

3m & 10m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 794232
Valid Date: Dec.30, 2012

EMC Lab. : Certificated by Industry Canada
Registration Number: IC 5183A-1
Valid Date: Jun.13, 2014

Certificated by DAkkS, Germany
Registration No: D-PL-12151-01-01
Valid Date: Feb.01, 2014

Accredited by NVLAP, USA
NVLAP Code: 200372-0
Valid Date: Mar.31, 2012

2.5.Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Radiation Emission test in 3m chamber	3.6 dB(30~200MHz, Polarize: H)
	3.7 dB(30~200MHz, Polarize: V)
	4.0 dB(200M~1GHz, Polarize: H)
	3.7 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.57dB
Uncertainty for Conduction Spurious emission test	2.00 dB
Uncertainty for Output power test	0.73 dB
Uncertainty for Power density test	2.00 dB
Uncertainty for Frequency range test	7×10^{-8}
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

3. POWER LINE CONDUCTED EMISSION TEST

According to Paragraph (c) of FCC Part 15 section 15.207, Tests to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

4. RADIATED EMISSION TEST

4.1. Test Equipment

Frequency rang: 30~1000MHz

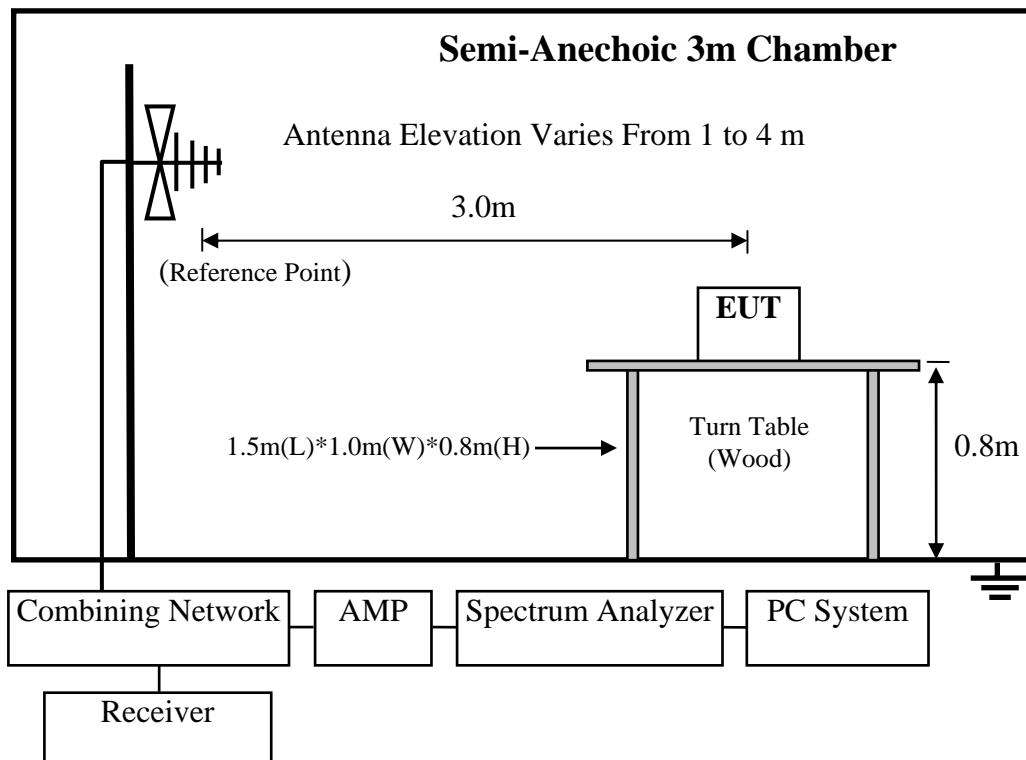
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Dec.06,10	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 11	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 11	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 11	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Oct.26, 10	1 Year
6	RF Cable	MIYAZAKI	8D-FB	3# Chamber No.1	May.08, 11	1 Year
7	Coaxial Switch	Anritsu	MP59B	M73989	May.08, 11	1 Year

Frequency rang: above 1000MHz

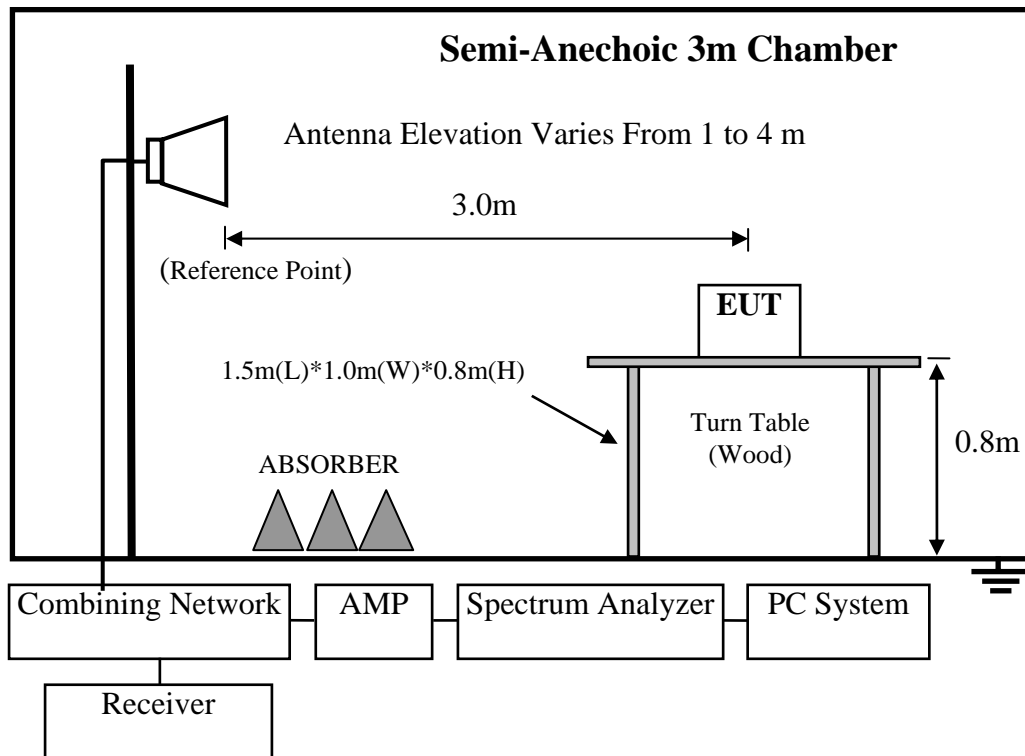
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 11	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	July.01, 11	1 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 11	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX102	28622/2	May.08, 11	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	29091/2	May.08, 11	1 Year

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range above 1GHz



4.3. Radiated Emission Limit Standard: FCC 15.209 and 15.249

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	
Field Strength of fundamental emissions for 2.4GHz-2.4835GHz	3	114.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 94.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
 - (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.5.Operating Condition of EUT

- 4.5.1. Setup the EUT and simulator as shown as Section 4.2.
- 4.5.2. Turned on the power of all equipment.
- 4.5.3. Let EUT work in Tx Mode.

4.6.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2009 on radiated emission Test.

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions.

After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation show in the test setup photos.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz

This device is pulse modulated, a duty cycle factor was used to calculate average level based measured peak level.

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

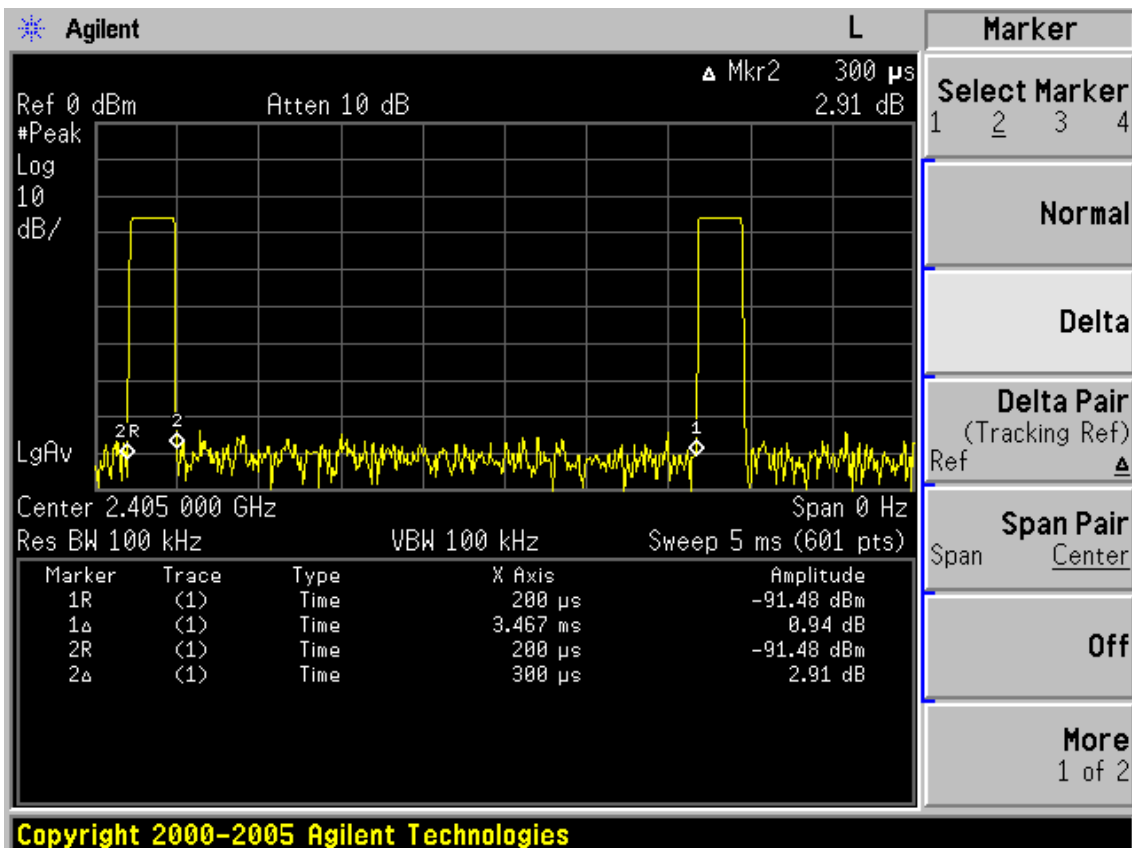
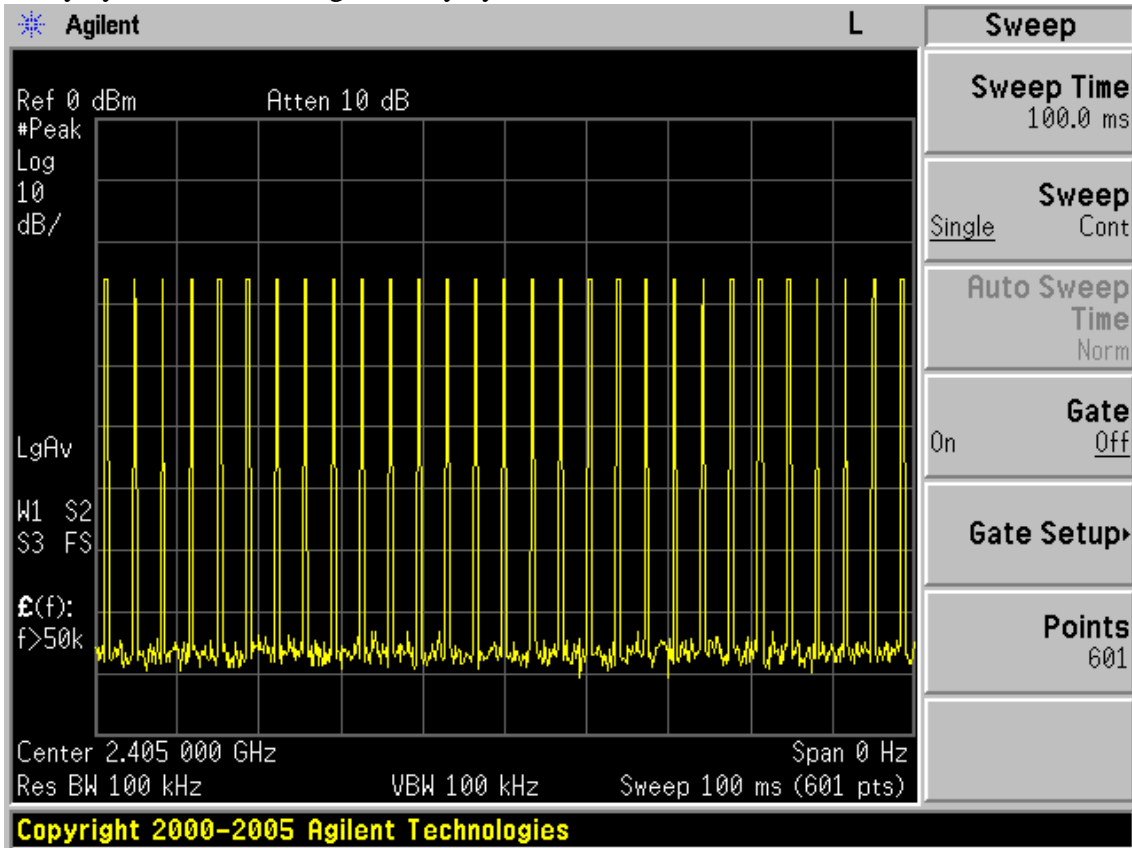
4.7.Radiated Emission Test Results

PASS.

All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.

Note: The duty cycle factor for calculate average level is 21.20dB, and average limit is 20dB below peak limit, so if peak measured level comply with peak limit, the average level was deemed to comply with average limit.

Duty cycle: $0.3\text{ms} \times 29\text{times} / 100\text{ms} \times 100\% = 8.7\%$
 Duty cycle factor = $20\log (1/\text{duty cycle}) = 21.20\text{dB}$

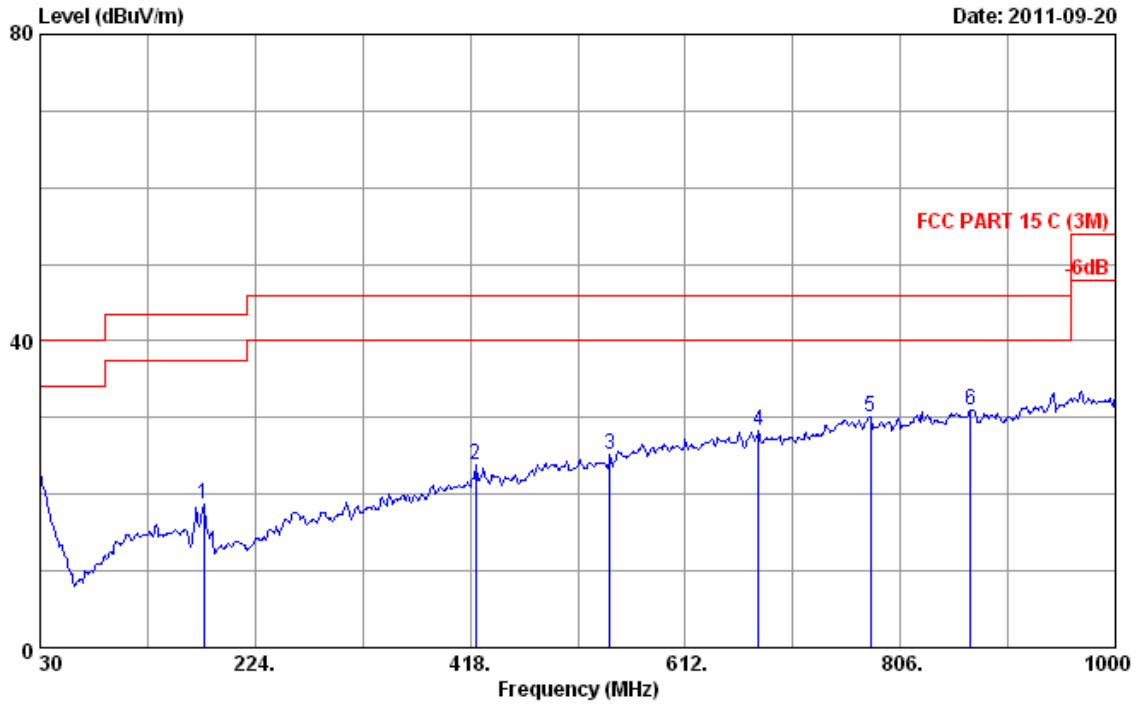


Frequency: 30MHz~1GHz

Data: 6

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Date: 2011-09-20

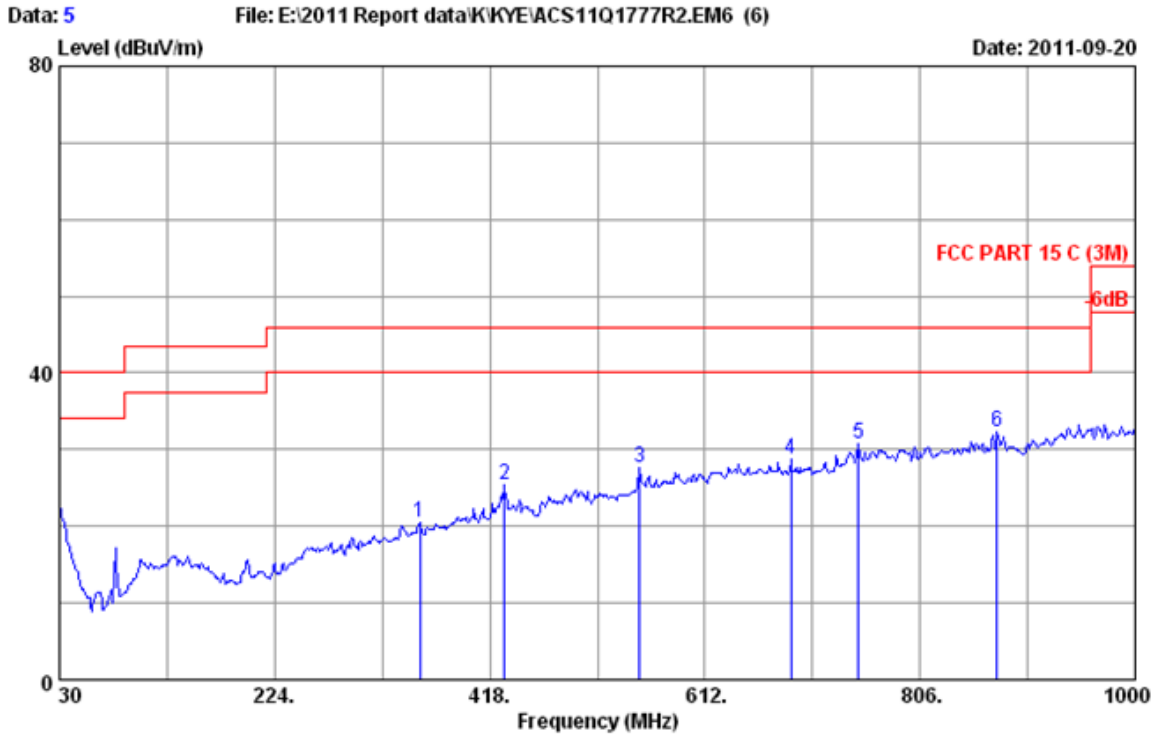


Site no. : 3m Chamber
 Dis. / Ant. : 3m 2010 CBL6111C 2598
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56%
 EUT : Mouse
 Power rating : DC 3V
 Test Mode : Tx Mode
 M/N : A79M

Data no. : 6
 Ant. pol. : HORIZONTAL
 Engineer : Gary

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	177.440	9.55	1.68	7.48	18.71	43.50	24.79	QP
2	422.850	17.15	3.48	3.32	23.95	46.00	22.05	QP
3	544.100	18.60	4.22	2.44	25.26	46.00	20.74	QP
4	677.960	20.72	4.89	2.65	28.26	46.00	17.74	QP
5	778.840	22.10	5.39	2.68	30.17	46.00	15.83	QP
6	869.050	22.80	5.61	2.59	31.00	46.00	15.00	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

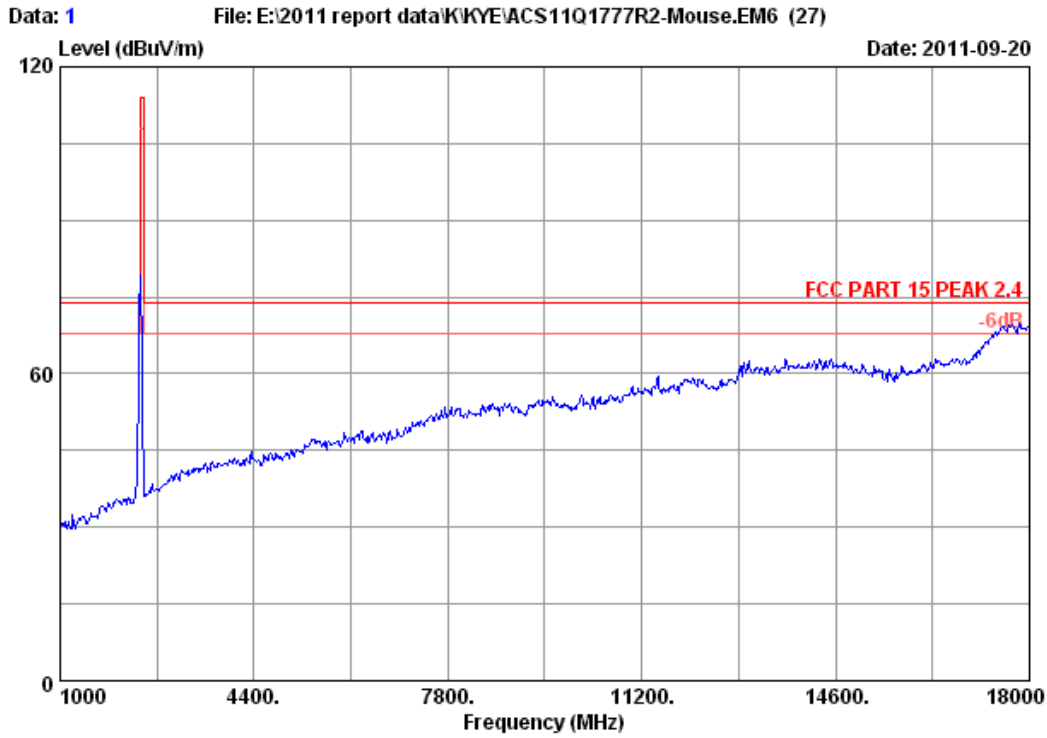


Site no.	: 3m Chamber	Data no.	: 5
Dis. / Ant.	: 3m 2010 CBL6111C 2598	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 C (3M)	Engineer	: Gary
Env. / Ins.	: 24°C/56%		
EUT	: Mouse		
Power rating	: DC 3V		
Test Mode	: Tx Mode		
M/N	: A79M		

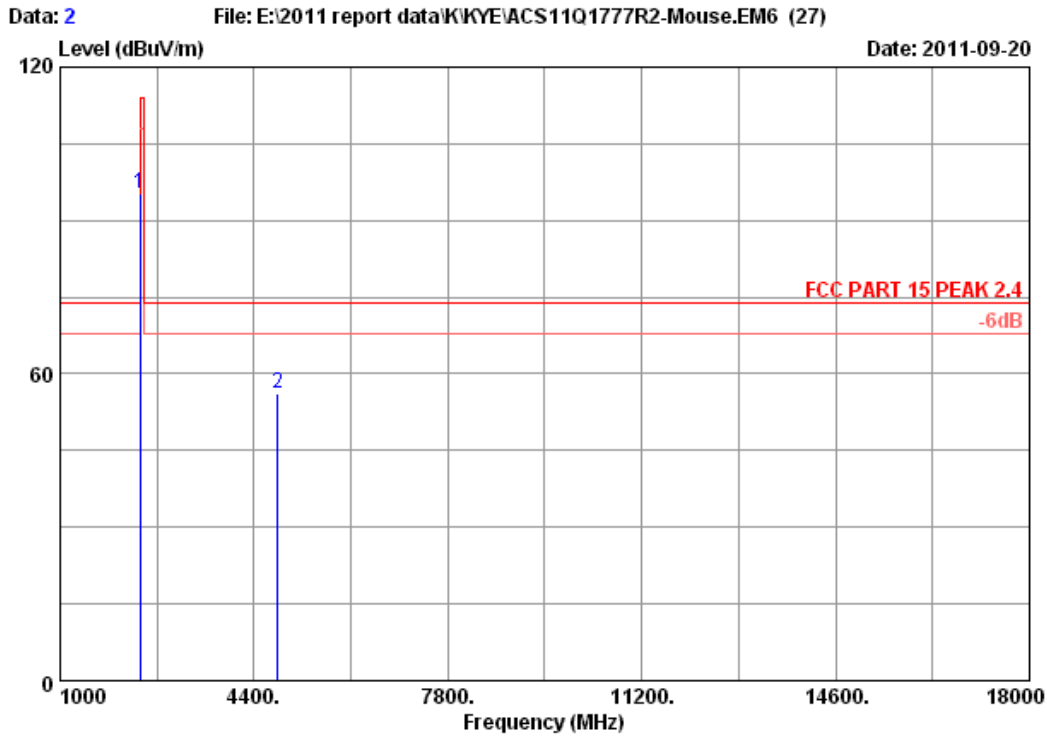
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1	354.950	15.35	3.18	2.04	20.57	46.00	25.43	QP
2	431.580	17.45	3.54	4.41	25.40	46.00	20.60	QP
3	552.830	19.29	4.26	4.19	27.74	46.00	18.26	QP
4	689.600	20.80	4.95	2.94	28.69	46.00	17.31	QP
5	750.710	22.00	5.26	3.55	30.81	46.00	15.19	QP
6	875.840	22.80	5.62	3.94	32.36	46.00	13.64	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz



Site no.	: 3m Chamber	Data no.	: 1
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 PEAK 2.4	Engineer	: Leo-Li
Env. / Ins.	: 23°C/54%		
EUT	: Mouse		
Power	: DC 3V		
Test mode	: 2405MHz Tx		
M/N	: A79M		
	:		



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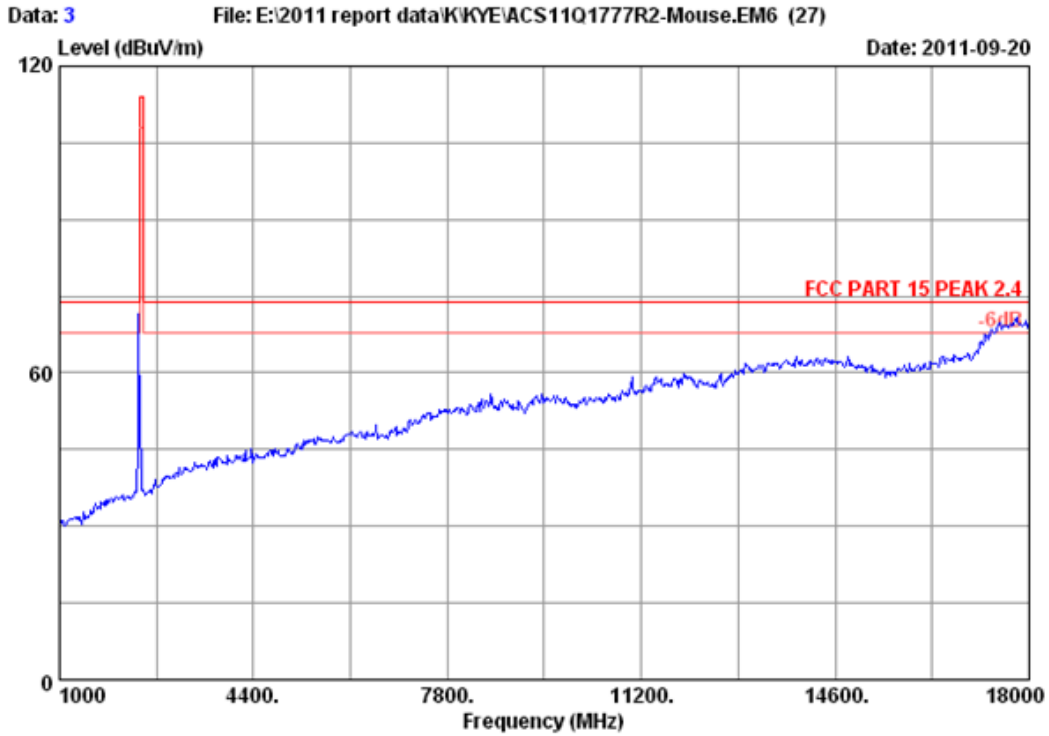
Site no.      : 3m Chamber
Dis. / Ant.   : 3m 3115(0911)
Limit         : FCC PART 15 PEAK 2.4
Env. / Ins.   : 23*C/54%
EUT          : Mouse
Power        : DC 3V
Test mode    : 2405MHz Tx
M/N         : A79M
Data no.     : 2
Ant. pol.    : HORIZONTAL
Engineer     : Leo-Li
    
```

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2405.000	29.45	7.43	36.62	94.99	95.25	114.00	18.75	Peak
2	4810.000	34.30	10.62	35.10	46.43	56.25	74.00	17.75	Peak

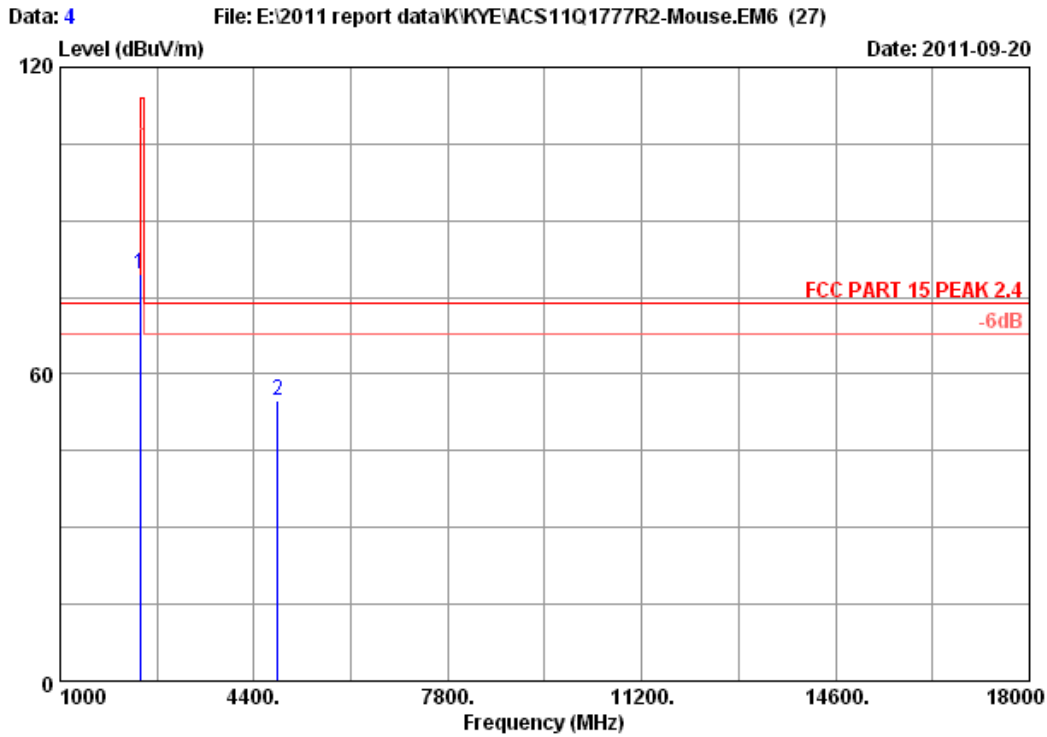
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBUV/m)	Duty cycle factor (dB)	AV level (dBUV/m)	Limit(dBUV/m)	Conclusion
2405	95.25	21.20	74.05	94	Pass
4810	56.25	21.20	35.05	54	Pass



Site no.	: 3m Chamber	Data no.	: 3
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 PEAK 2.4	Engineer	: Leo-Li
Env. / Ins.	: 23°C/54%		
EUT	: Mouse		
Power	: DC 3V		
Test mode	: 2405MHz Tx		
M/N	: A79M		



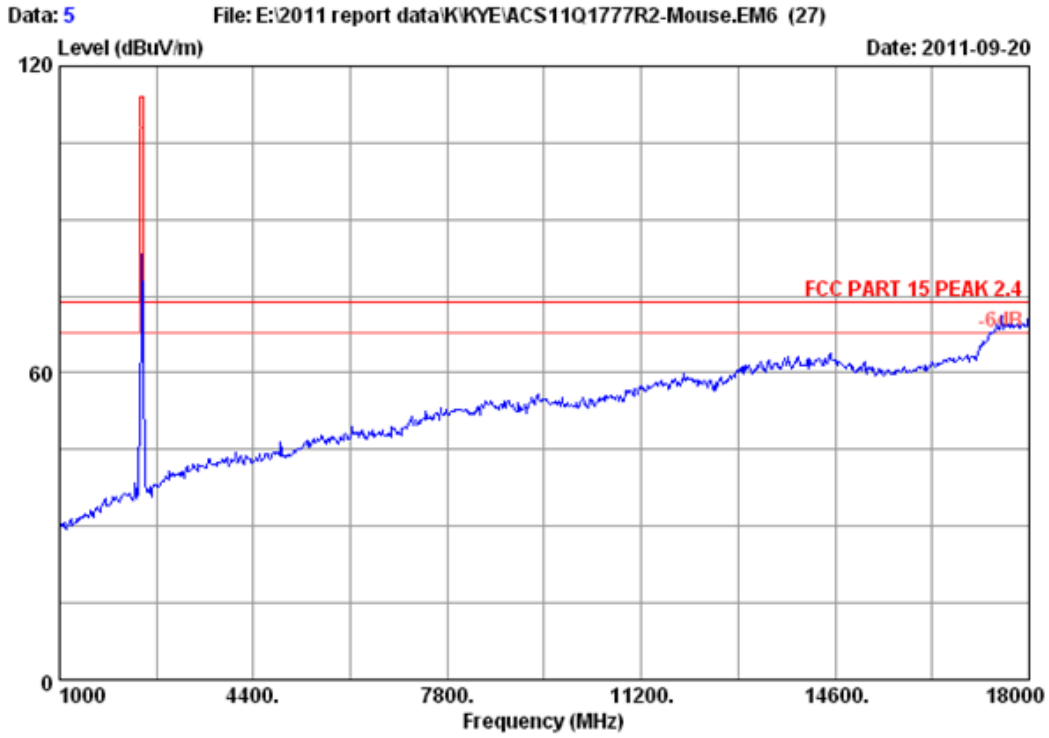
Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Mouse
 Power : DC 3V
 Test mode : 2405MHz Tx
 M/N : A79M

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2405.000	29.45	7.43	36.62	79.40	79.66	114.00	34.34	Peak
2	4810.000	34.30	10.62	35.10	45.12	54.94	74.00	19.06	Peak

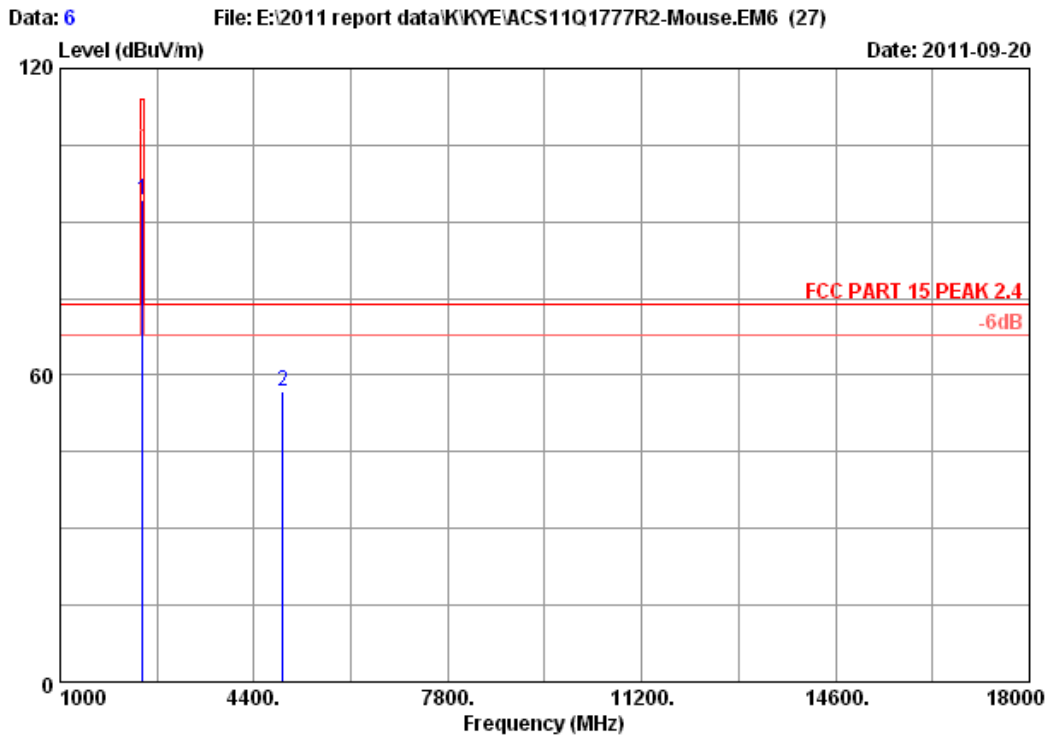
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2405	79.66	21.20	58.46	94	Pass
4810	54.94	21.20	33.74	54	Pass



Site no.	: 3m Chamber	Data no.	: 5
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 PEAK 2.4	Engineer	: Leo-Li
Env. / Ins.	: 23°C/54%		
EUT	: Mouse		
Power	: DC 3V		
Test mode	: 2445MHz Tx		
M/N	: A79M		



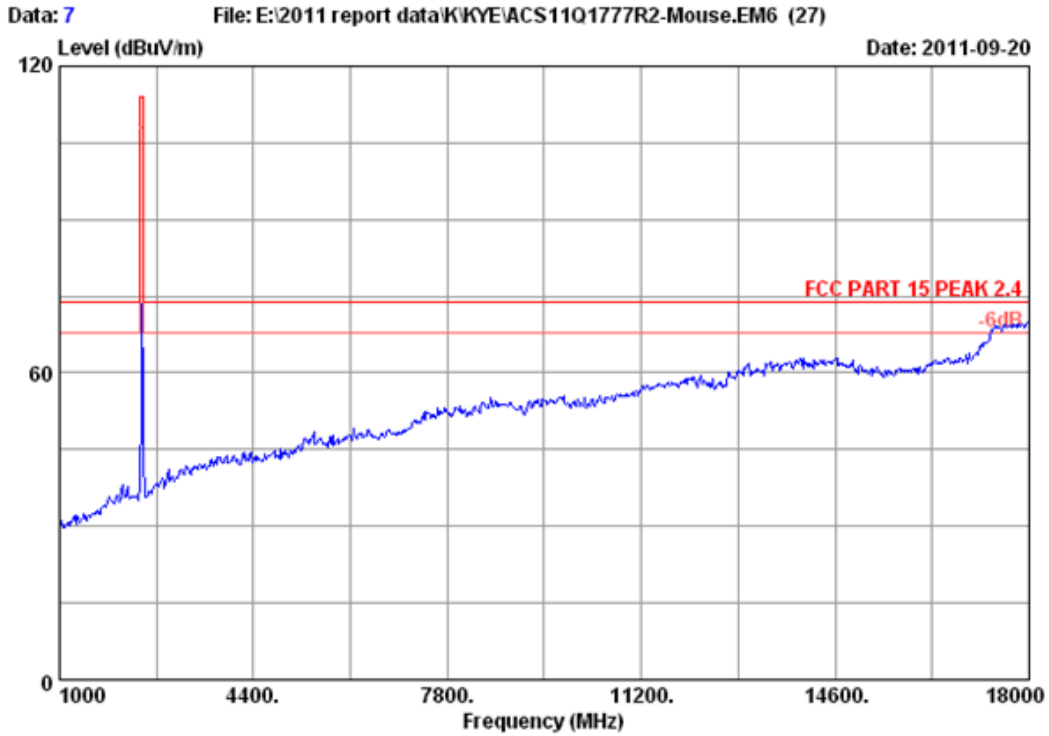
Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Mouse
 Power : DC 3V
 Test mode : 2445MHz Tx
 M/N : A79M

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2445.000	29.47	7.50	36.61	93.95	94.31	114.00	19.69	Peak
2	4890.000	34.43	10.74	35.00	46.57	56.74	74.00	17.26	Peak

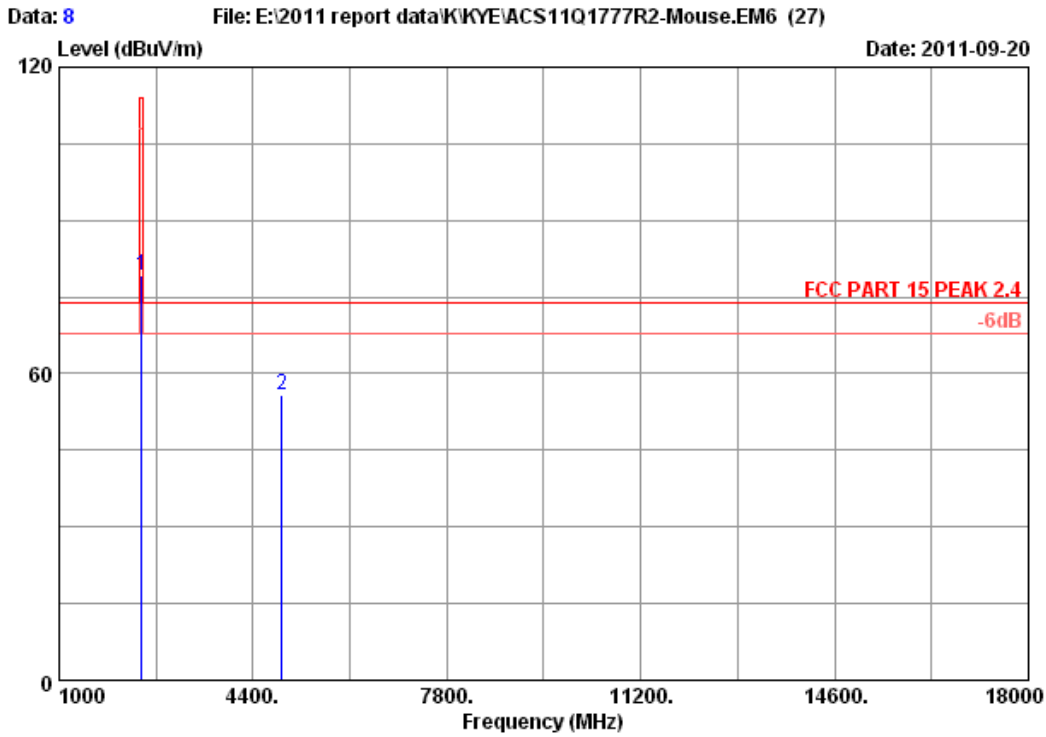
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2445	94.31	21.20	73.11	94	Pass
4890	56.74	21.20	35.54	54	Pass



Site no.	: 3m Chamber	Data no.	: 7
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 PEAK 2.4	Engineer	: Leo-Li
Env. / Ins.	: 23°C/54%		
EUT	: Mouse		
Power	: DC 3V		
Test mode	: 2445MHz Tx		
M/N	: A79M		



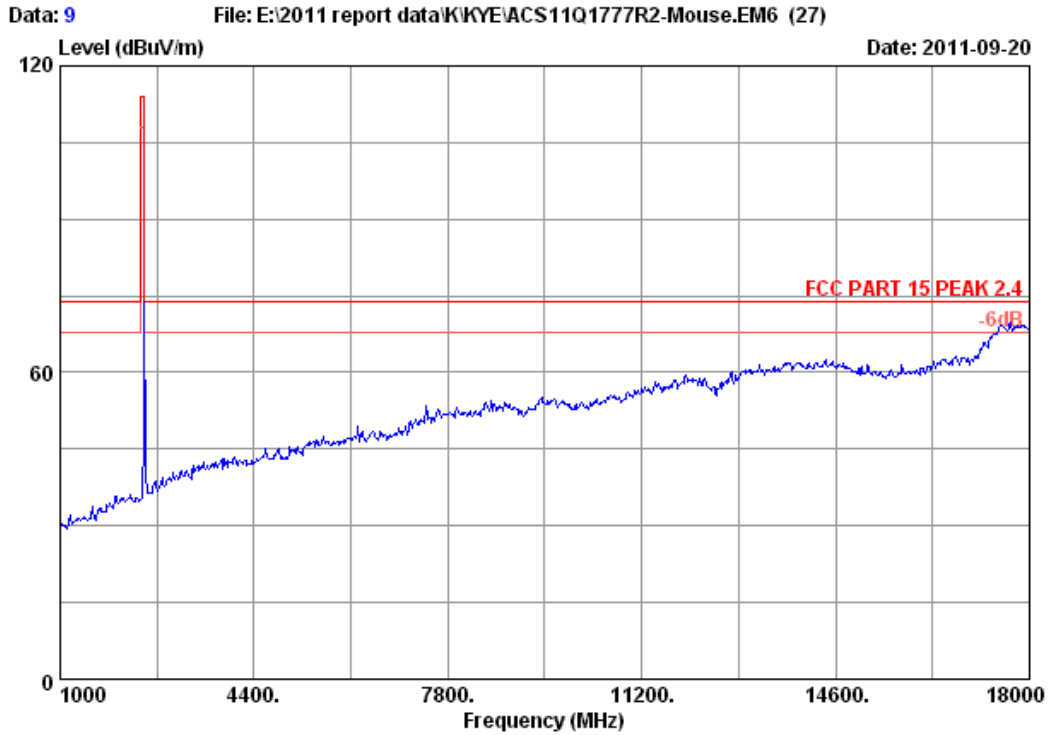
Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Mouse
 Power : DC 3V
 Test mode : 2445MHz Tx
 M/N : A79D

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2445.000	29.47	7.50	36.61	78.83	79.19	114.00	34.81	Peak
2	4890.000	34.43	10.74	35.00	45.69	55.86	74.00	18.14	Peak

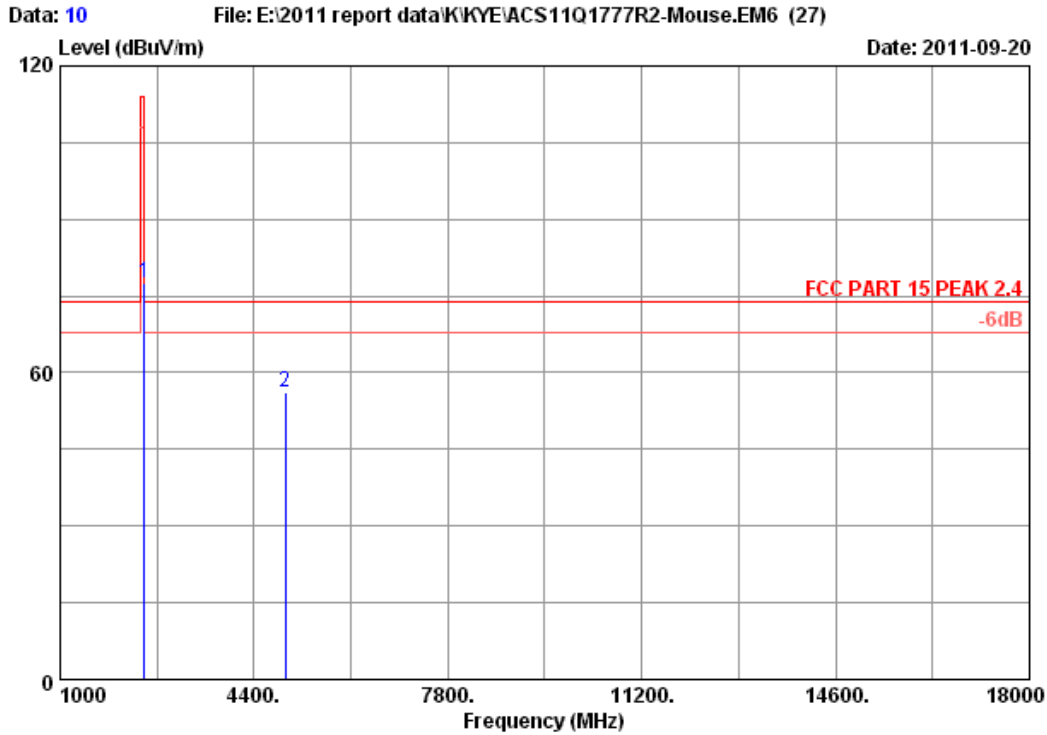
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2445	79.19	21.20	57.99	94	Pass
4890	55.86	21.20	34.66	54	Pass



Site no.	: 3m Chamber	Data no.	: 9
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer	: Leo-Li
EUT	: Mouse		
Power	: DC 3V		
Test mode	: 2480MHz Tx		
M/N	: A79M		



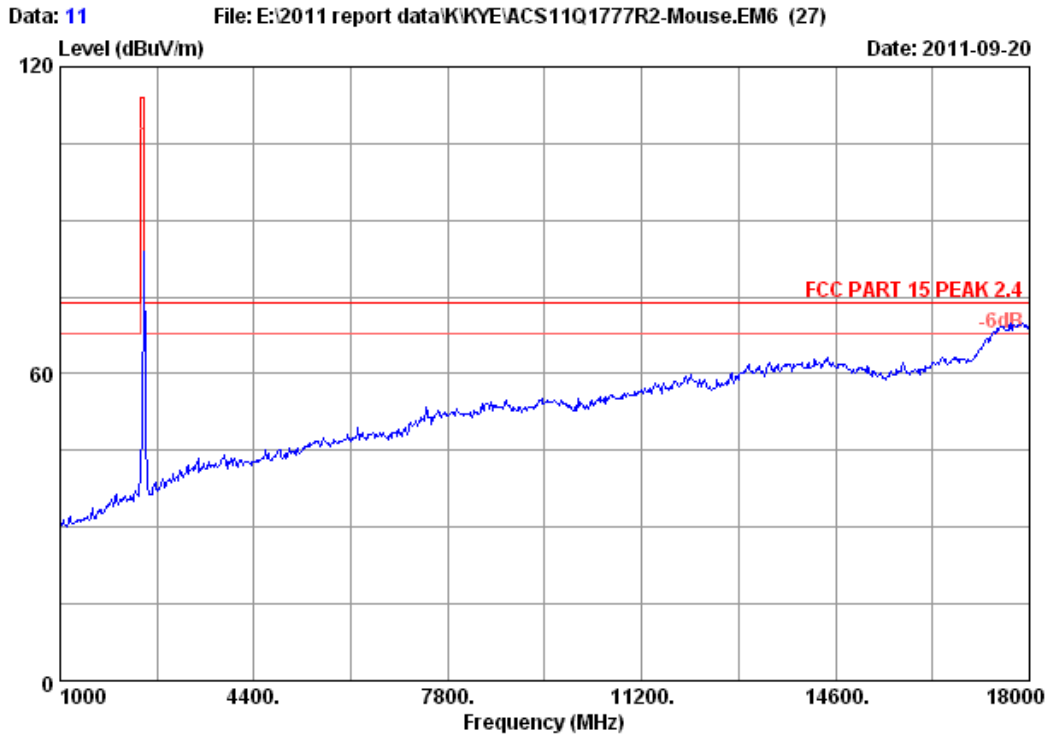
Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : Mouse
 Power : DC 3V
 Test mode : 2480MHz Tx
 M/N : A79M

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2480.000	29.49	7.54	36.60	77.14	77.57	114.00	36.43	Peak	
2 4960.000	34.52	10.78	34.95	45.77	56.12	74.00	17.88	Peak	

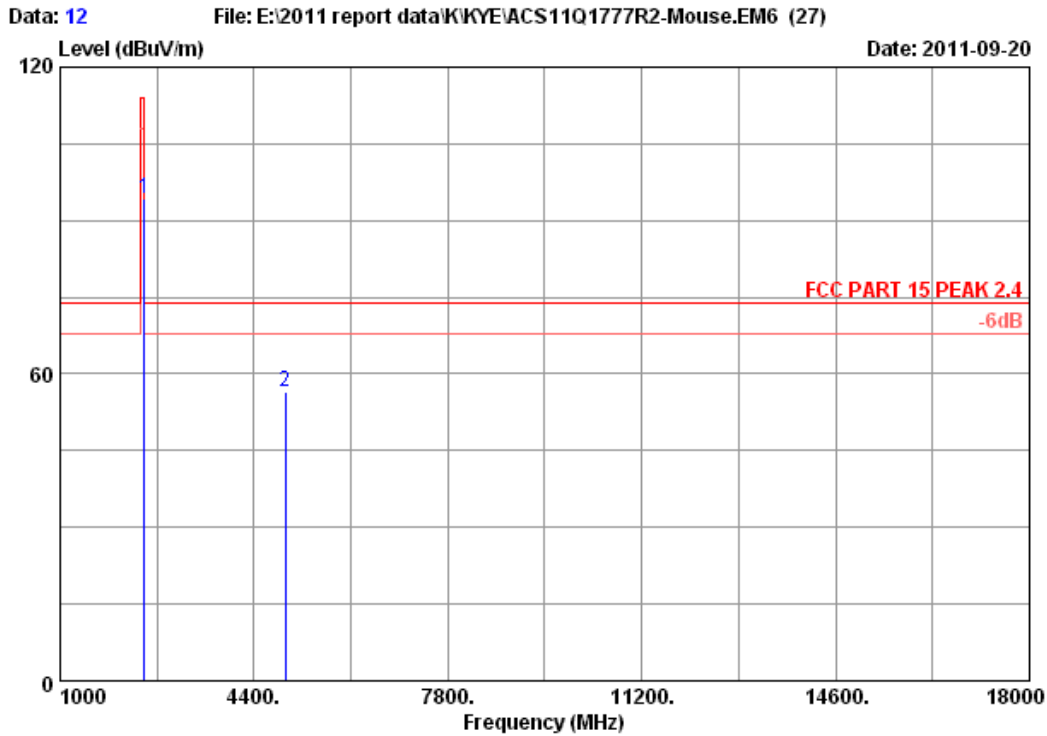
Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2480	77.57	21.20	56.37	94	Pass
4960	56.12	21.20	34.92	54	Pass



Site no.	: 3m Chamber	Data no.	: 11
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer	: Leo-Li
EUT	: Mouse		
Power	: DC 3V		
Test mode	: 2480MHz Tx		
M/N	: A79M		



```

Site no.      : 3m Chamber
Dis. / Ant.  : 3m 3115(0911)
Limit        : FCC PART 15 PEAK 2.4
Env. / Ins.  : 23*C/54%
EUT          : Mouse
Power        : DC 3V
Test mode    : 2480MHz Tx
M/N         : A79M

Data no.     : 12
Ant. pol.    : HORIZONTAL
Engineer     : Leo-Li
    
```

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2480.000	29.49	7.54	36.60	93.68	94.11	114.00	19.89	Peak
2	4960.000	34.52	10.78	34.95	46.00	56.35	74.00	17.65	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBUV/m)	Duty cycle factor (dB)	AV level (dBUV/m)	Limit(dBUV/m)	Conclusion
2480	94.11	21.20	72.91	94	Pass
4960	56.35	21.20	35.15	54	Pass

5. 20 DB BANDWIDTH TEST

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,11	1 Year

5.2. Limit

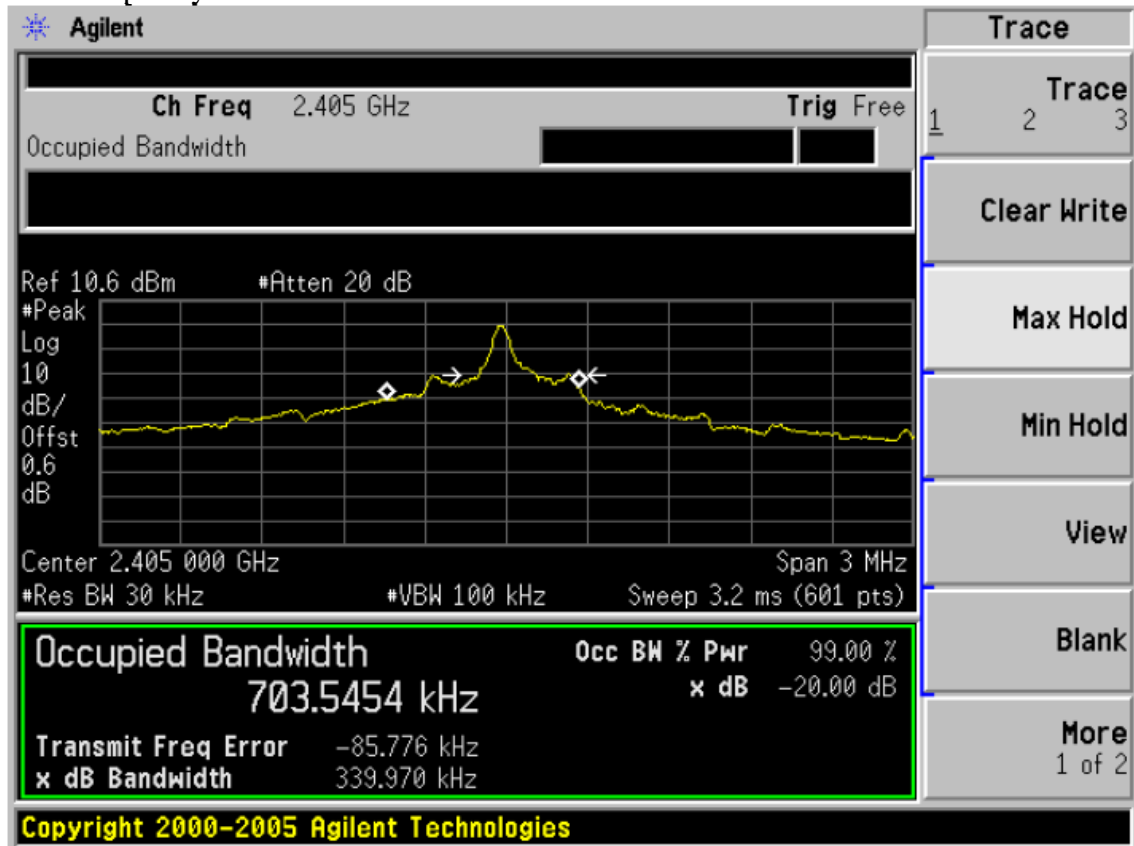
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.3. Test Results

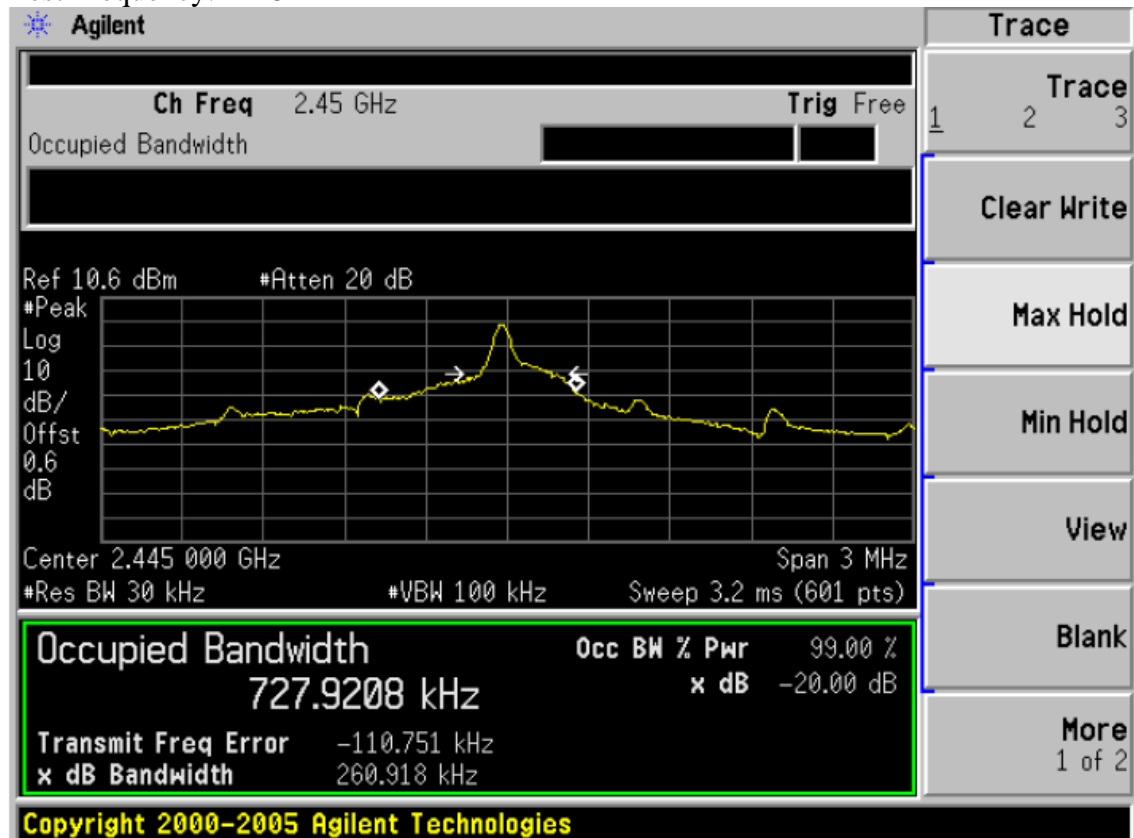
EUT: Mouse		
M/N: A79M		
Test date:2011-09-18	Pressure:100.8 kpa	Humidity:37 %
Tested by:Leo-Li	Test site: RF site	Temperature : 19.1 °C

Frequency	20% bandwidth (KHz)	Limit (KHz)
2405	339.970	N/A
2445	260.918	N/A
2480	426.037	N/A
Conclusion : PASS		

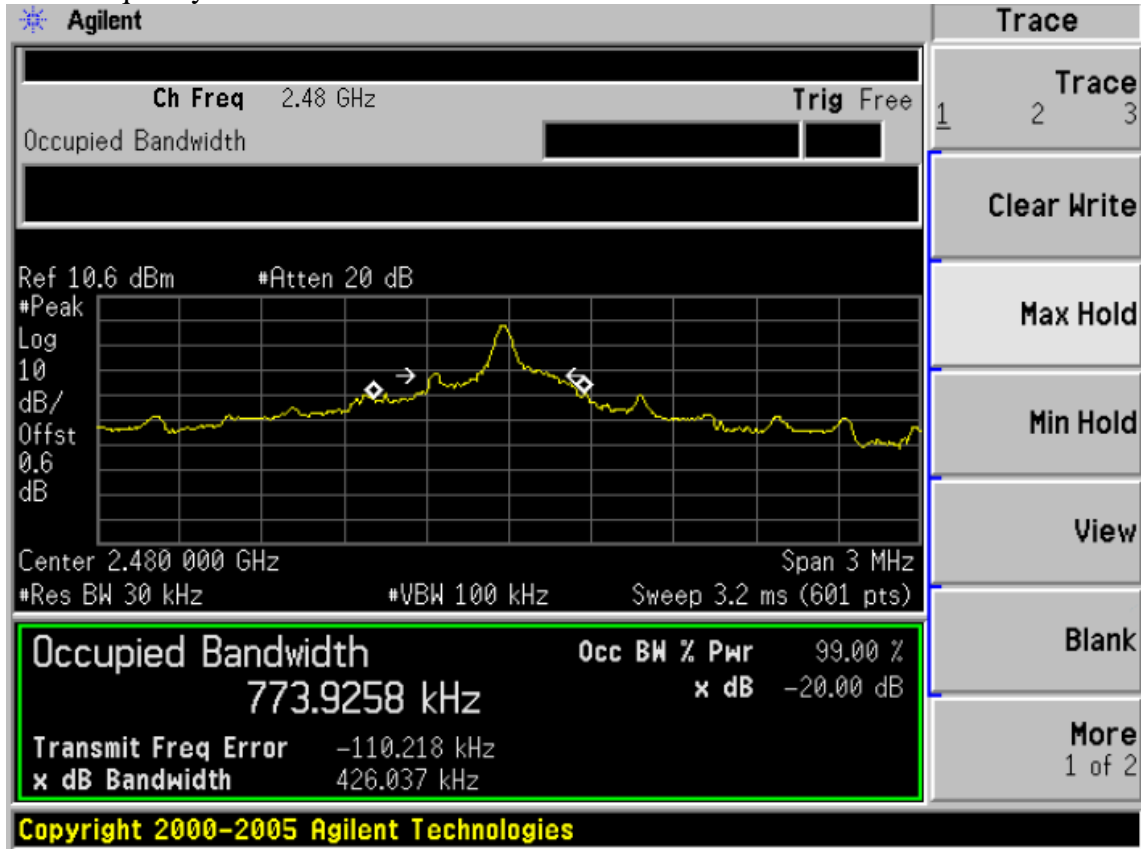
Test Frequency: 2405MHz



Test Frequency: 2445MHz



Test Frequency: 2480MHz



6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,11	1 Year
2.	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 10	1.5 Year
3.	Amplifier	Agilent	8449B	3008A02495	May.08, 11	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08,11	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,11	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	May.08,11	1 Year

6.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.3. Test Produce

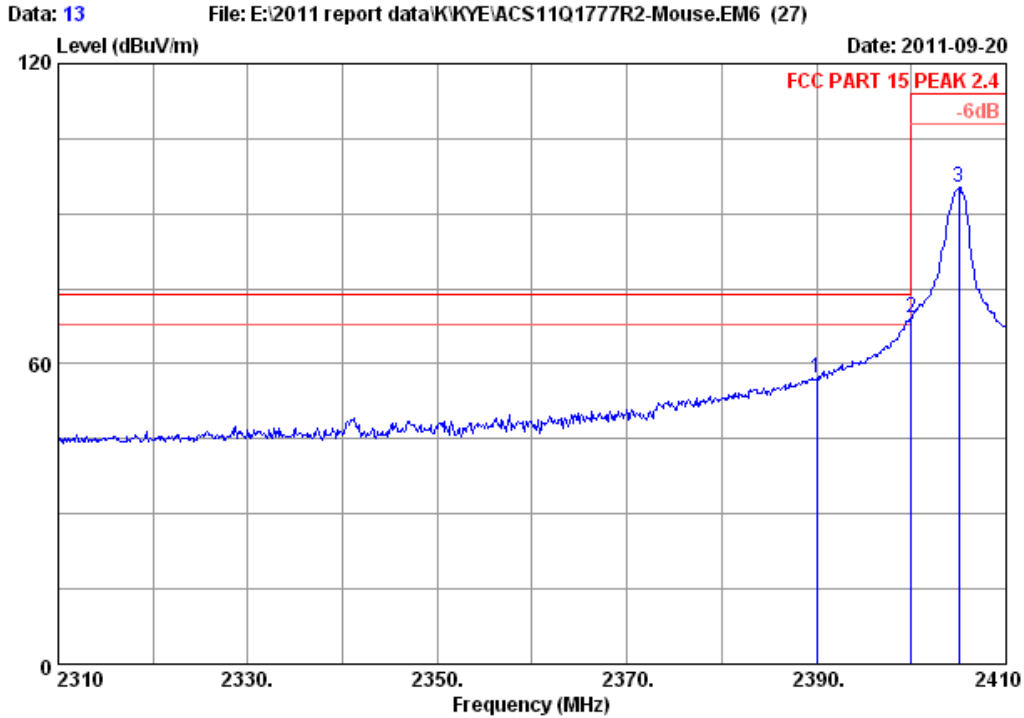
1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK: RBW=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
 - (b)This device is pulse modulated, a duty cycle factor was used to calculate average level based measured peak level

6.4. Test Results

Pass (The testing data was attached in the next pages.)

Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

Note: The duty cycle factor for calculate average level is 21.20dB, and average limit is 20dB below peak limit, so if peak measured level comply with peak limit, the average level was deemed to comply with average limit.



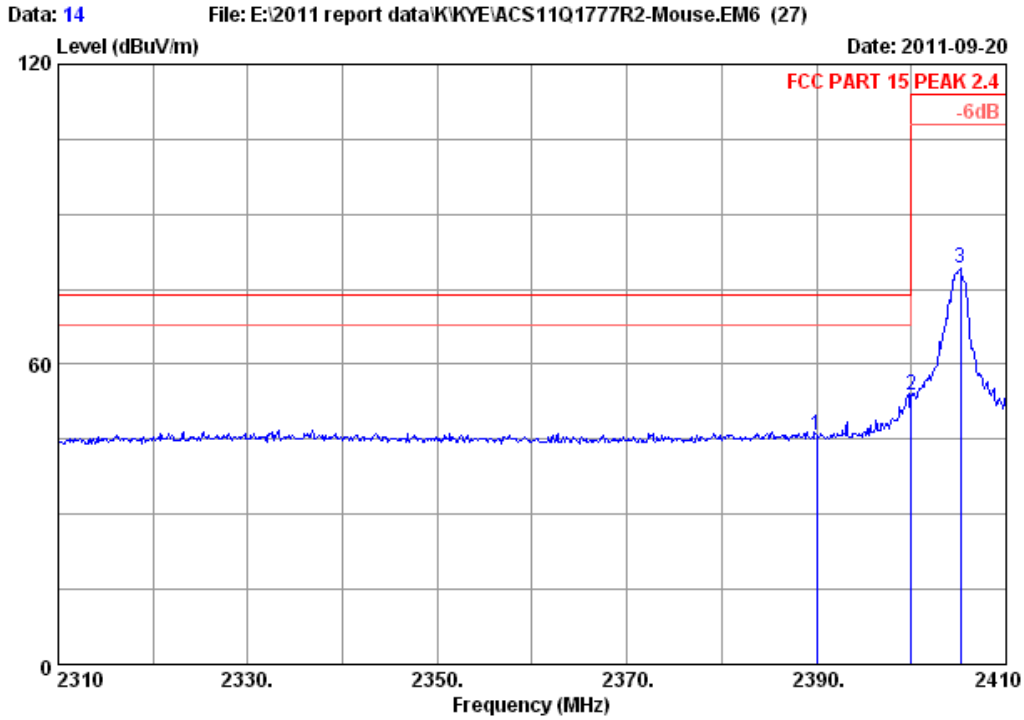
Site no. : 3m Chamber Data no. : 13
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : Mouse
 Power : DC 3V
 Test mode : 2405MHz Tx
 M/N : A79M

	Ant. Freq. (MHz)	Cable Factor (dB/m)	Amp. loss (dB)	Factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	56.78	56.99	74.00	17.01	Peak
2	2400.000	29.44	7.43	36.62	68.78	69.03	74.00	4.97	Peak
3	2405.000	29.45	7.43	36.62	94.89	95.15	114.00	18.85	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2390.000	56.99	21.20	35.79	54	Pass
2400.000	69.03	21.20	47.83	54	Pass
2405.000	95.15	21.20	73.95	94	Pass



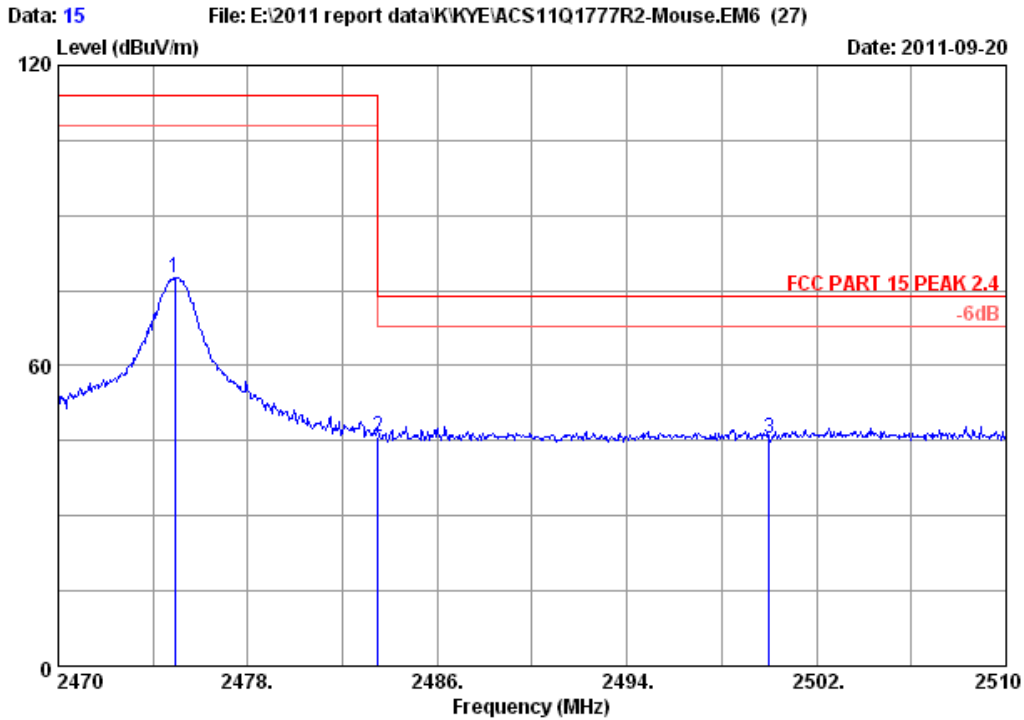
Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : Mouse
 Power : DC 3V
 Test mode : 2405MHz Tx
 M/N : A79M

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	45.66	45.87	74.00	28.13	Peak
2	2400.000	29.44	7.43	36.62	53.46	53.71	74.00	20.29	Peak
3	2405.200	29.45	7.43	36.62	78.98	79.24	114.00	34.76	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuv/m)	Conclusion
2390.000	45.87	21.20	24.67	54	Pass
2400.000	53.71	21.20	32.51	54	Pass
2405.200	79.24	21.20	58.04	94	Pass



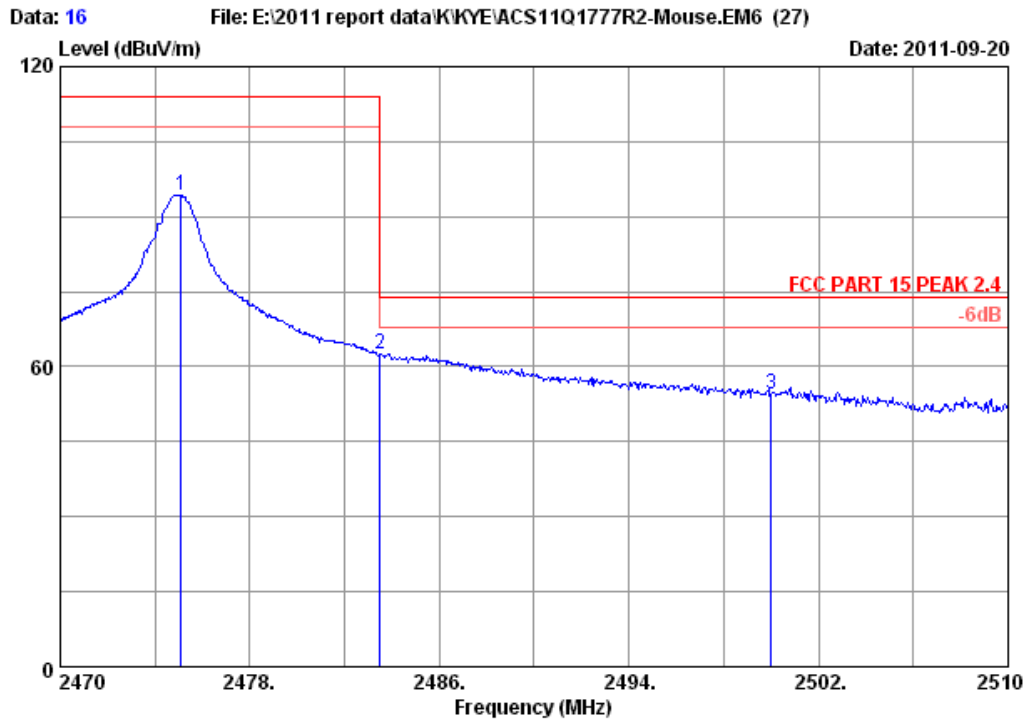
Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Mouse
 Power : DC 3V
 Test mode : 2480MHz Tx
 M/N : A79M

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2474.920	29.49	7.54	36.60	77.05	77.48	114.00	36.52	Peak
2	2483.500	29.49	7.58	36.60	45.40	45.87	74.00	28.13	Peak
3	2500.000	29.50	7.62	36.60	45.10	45.62	74.00	28.38	Peak

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2474.920	77.48	21.20	56.28	94	Pass
2483.500	45.87	21.20	24.67	54	Pass
2500.000	45.62	21.20	24.42	54	Pass



Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Mouse
 Power : DC 3V
 Test mode : 2480MHz Tx
 M/N : A79M

	Ant. Freq. (MHz)	Cable Factor (dB/m)	Amp. loss (dB)	Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2475.080	29.49	7.54	36.60	93.87	94.30	114.00	19.70	Peak
2	2483.500	29.49	7.58	36.60	62.09	62.56	74.00	11.44	Peak
3	2500.000	29.50	7.62	36.60	54.10	54.62	74.00	19.38	Peak

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2475.080	94.30	21.20	73.1	94	Pass
2483.500	62.56	21.20	41.36	54	Pass
2500.000	54.62	21.20	33.42	54	Pass

7. RADIO FRREQUENCY EXPOSURE COMPLIANCE

RESULT : **PASS**

Test standard : FCC KDB Publication 447498

Since maximum peak output power of the transmitter is $<60/f(\text{GHz})\text{mW}$,
i.e. $0.552\text{mW} < 25(=60/2.4)\text{mW}$, hence the EUT is excluded from SAR evaluation according to
FCC KDB Publication 447498 D01:Mobile Portable RF Exposure.

8. DEVIATION TO TEST SPECIFICATIONS

[NONE]