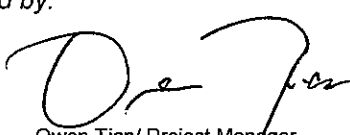



Prüfbericht - Nr.: 17030504 001		Seite 1 von 22	
<i>Test Report No.:</i>		Page 1 of 22	
Auftraggeber: <i>Client:</i>	Acrox Technologies Co., Ltd. 4F, No. 89, Minshan St., NeiHu Dist. Taipei 114		
Gegenstand der Prüfung: <i>Test item:</i>	Wireless USB Keyboard		
Bezeichnung: <i>Identification:</i>	DX-WLC1401	Serien-Nr.: <i>Serial No.:</i>	n.a.
Wareneingangs-Nr.: <i>Receipt No.:</i>	164002075	Eingangsdatum: <i>Date of receipt:</i>	2012-12-20
Zustand des Prüfgegenstandes bei Anlieferung: Condition of test item at delivery:	Test samples received are sufficient for testing and not damaged.		
Prüfört: <i>Testing location:</i>	Shenzhen Accurate Technology Co., Ltd. (Details refer to clause 2.1)		
Prüfgrundlage: <i>Test specification:</i>	FCC CFR47 Part 15: Subpart C Section 15.249 FCC CFR47 Part 15: Subpart C Section 15.207 FCC CFR47 Part 15: Subpart C Section 15.209 RSS-210 Issue 8 December 2010 RSS-Gen Issue 3 December 2010 RSS-102 Issue 4 March 2010		
Prüfergebnis: <i>Test Result:</i>	Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). The test item passed the test specification(s).		
Prüflaboratorium: <i>Testing Laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.		
geprüft/ tested by:	kontrolliert/ reviewed by:		
2013-1-15	 Owen Tian/ Project Manager	2013-1-18	 Winnie Hou/ Technical Certifier
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>
			Name/Stellung <i>Name/Position</i>
			Unterschrift <i>Signature</i>
Sonstiges/ Other Aspects:			
Abkürzungen:	P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet	Abbreviations:	P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report relates to the a. m. test item. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.			

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Passed

5.1.2 FIELD STRENGTH OF FUNDAMENTAL AND HARMONICS

RESULT: Passed

5.1.3 20dB BANDWIDTH

RESULT: Passed

5.1.4 99% BANDWIDTH

RESULT: Passed

5.1.5 OUT OF BAND EMISSION

RESULT: Passed

5.1.6 RADIATED EMISSION

RESULT: Passed

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Passed

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:
Appendix 1: Test Result

2. Test Sites

2.1 Test Facilities

Shenzhen Accurate Technology Co., Ltd.

F1, Bldg. A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China

FCC Registration No.: 752051

Test site Industry Canada No.: 5077A

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Spurious emission and Radiated emission				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2013-01-07
Test Receiver	Rohde & Schwarz	ESCS30	100307	2013-01-07
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2013-01-07
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2013-01-07
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2013-01-07
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2013-01-07
Pre-Amplifier	Rohde & Schwarz	CBLU11835 40-01	3791	2013-01-07
Radio Test Suite				
Receiver	Rohde & Schwarz	ESPI	100396/003	2013-01-07

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are $\pm 3\text{dB}$.

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached in this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Shenzhen Accurate Technology Co., Ltd. test facility located at F1, Bldg. A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a wireless keyboard used together with personal computer.
The whole system is composed of one wireless keyboard, one wireless mouse and one dongle. This report is only for wireless keyboard.
For details refer to the User Manual, technical description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Rating of EUT

Kind of Equipment:	Wireless USB Keyboard
Type Designation:	DX-WLC1401
FCC ID	PRDKB08
IC	6180A-K1X

Table 3: Technical Specification of EUT

Technical Specification	Value
Operating Frequency	2408-2474 MHz
Channel separation	1MHz
Extreme Temperature Range	0°C to 35°C
Operation Voltage	DC 3V (via 2 AAA size battery)
Modulation	FSK
Antenna Type	Printed antenna
External Ports	None
Antenna Gain	-2dBi
RF Output Power	0.76mW
Number of channels	34
Channel frequency (MHz)	2408/2410/2412/2414/2416/2418/2420/2422/2424/2426/ 2428/2430/2432/2434/2436/2438/2440/2442/2444/2446/ 2448/2450/2452/2454/2456/2458/2460/2462/2464/2466/ 2468/2470/2472/2474

3.3 Independent Operation Modes

The basic operation modes are:

- A. Transmitting
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. Standby
- C. Receiving
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Technical Description
- Circuit Diagram
- Instruction Manual
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003.

4.3 Special Accessories and Auxiliary Equipment

None.

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

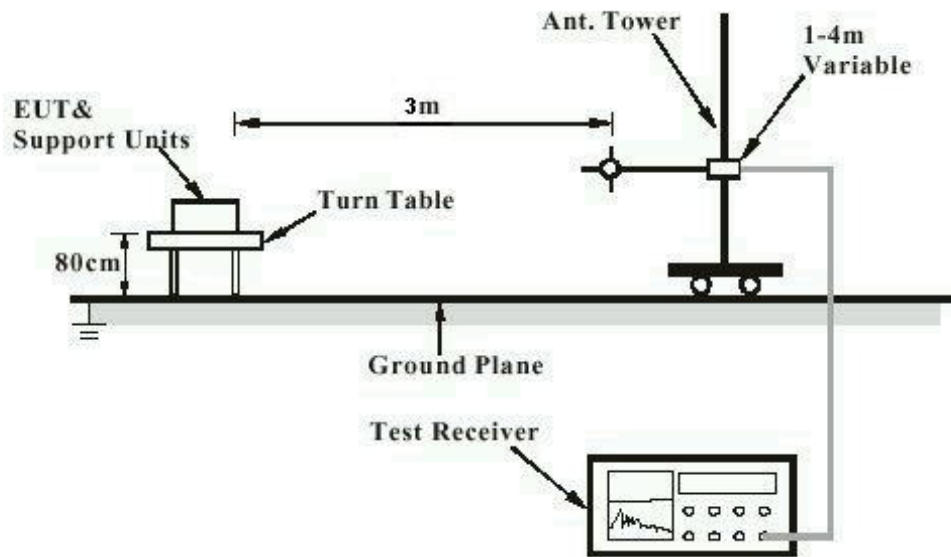


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

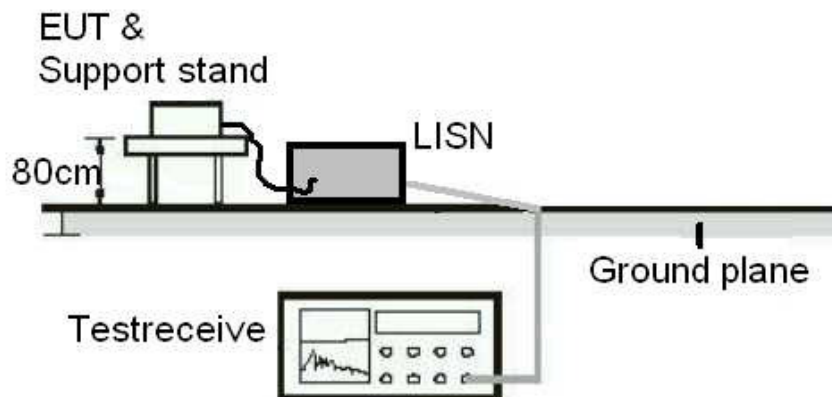
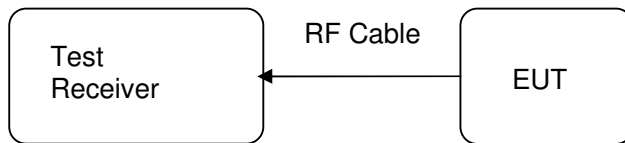


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Passed**

Test date	:	2012-12-27
Test standard	:	FCC Part 15.203 RSS-Gen 7.1.2
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is -5dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply the provision.

Refer to EUT photo for details.

5.1.2 Field strength of fundamental and harmonics

RESULT:
Passed

Test date : 2012-12-28
 Test standard : FCC Part 15.249(a)
 Clause A2.9(a) of RSS-210
 Basic standard : ANSI C63.4: 2003
 Limit : FCC Part 15.249(a)
 Clause A2.9(a) of RSS-210
 Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Operation Mode : A
 Ambient temperature : 26°C
 Relative humidity : 56%
 Atmospheric pressure : 101 kPa

Table 4: Test result of Field strength of fundamental and harmonics

Channel Frequency (MHz)	Test result			
	Reading (dBuV/m)	Antenna orientation	Detector	Limit (dBuV/m)
2408	88.42	Horizontal	Peak	114
2408	84.40		Average	94
2408	88.33	Vertical	Peak	114
2408	84.10		Average	94
2440	86.72	Horizontal	Peak	114
2440	82.50		Average	94
2440	88.06	Vertical	Peak	114
2440	84.00		Average	94
2474	89.59	Horizontal	Peak	114
2474	85.40		Average	94
2474	90.79	Vertical	Peak	114
2474	86.40		Average	94
4816	47.60	Horizontal	Peak	74
4816	43.42		Average	54
4816	47.09	Vertical	Peak	74
4816	43.22		Average	54
4880	45.11	Horizontal	Peak	74
4880	40.80		Average	54

4880	45.24	Vertical	Peak	74
4880	41.39		Average	54
4948	51.10	Horizontal	Peak	74
4948	46.11		Average	54
4948	51.28	Vertical	Peak	74
4948	46.90		Average	54

Note: refer to Appendix 1 for test plot.

5.1.3 20dB Bandwidth

RESULT:**Passed**

Date of testing : 2012-12-27
Test standard : RSS-Gen 4.6.3
Basic standard : ANSI C63.4: 2003
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 20°C
Relative humidity : 52%
Atmospheric pressure : 101 kPa

Table 5: Test result of 20dB Bandwidth

Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2408	2280	/	Pass
Mid Channel	2440	2280	/	Pass
High Channel	2474	2274	/	Pass

5.1.4 99% Bandwidth

RESULT:**Passed**

Date of testing : 2012-12-27
Test standard : RSS-Gen clause 4.6.1
Basic standard : ANSI C63.4: 2003
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 20°C
Relative humidity : 45%
Atmospheric pressure : 101 kPa

Table 6: Test result of 99% Bandwidth

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (MHz)
Low Channel	2408	1716	/
Mid Channel	2440	1734	/
High Channel	2474	1716	/

5.1.5 Out of band emission

RESULT:**Passed**

Date of testing : 2012-12-28
Test standard : FCC part 15.249(d)
RSS-210 A2.9(b)
Basic standard : ANSI C63.4: 2003
Limit : FCC part 15.249(d)
RSS-210 A2.9(b)
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/ High
Operation mode : A
Ambient temperature : 26°C
Relative humidity : 56%
Atmospheric pressure : 101 kPa

All emissions are below the general radiated emission limits in FCC part 15.209. Refer to Appendix 1 for detailed test plot.

5.1.6 Radiated emission

RESULT:**Passed**

Date of testing : 2012-12-28
Test standard : FCC part 15.209(a) & 15.205
Clause 2.2 & 2.5 of RSS-210
Basic standard : ANSI C63.4: 2003
Limits : Refer to FCC part 15.209(a)
Refer to RSS-Gen Table 5
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Operation mode : A
Ambient temperature : 23°C
Relative humidity : 51%
Atmospheric pressure : 101 kPa

For details refer to Appendix 1.

Remark: Testing was carried out within frequency range 9kHz to the tenth harmonics.

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Passed**

The minimum distance is 15mm. Since maximum peak output power of the transmitter is $0.76\text{mW} < 29\text{mW}$, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile Portable RF Exposure Guidance v05.

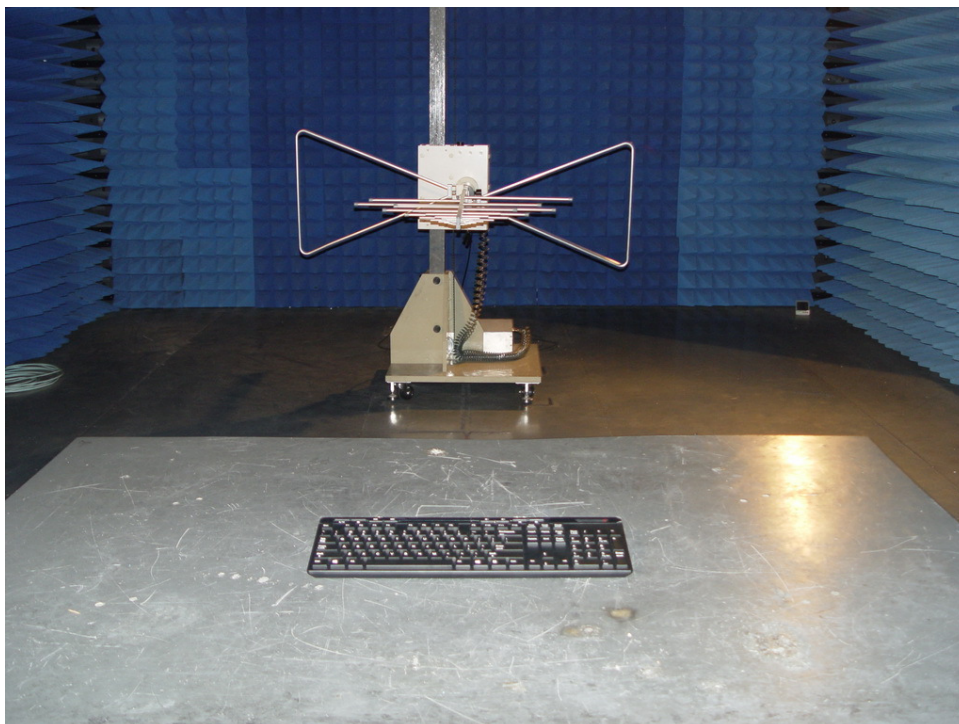
The measured peak output power of the transmitter is only 0.76mW . According to RSS-102 Issue 4 March 2010 clause 2.5, from 3 kHz up to 1 GHz inclusively and if the output power (i.e. the higher of the conducted or effective isotropic radiated power (e.i.r.p.) source-based time-averaged output power) is less than, or equal to 200 mW for General Public Use and 1000 mW for Controlled Use, then the transmitters are exempt from routine SAR and RF exposure evaluations, therefore the EUT is deemed to fulfill the requirement without additional test.

7. Photographs of the Test Set-Up

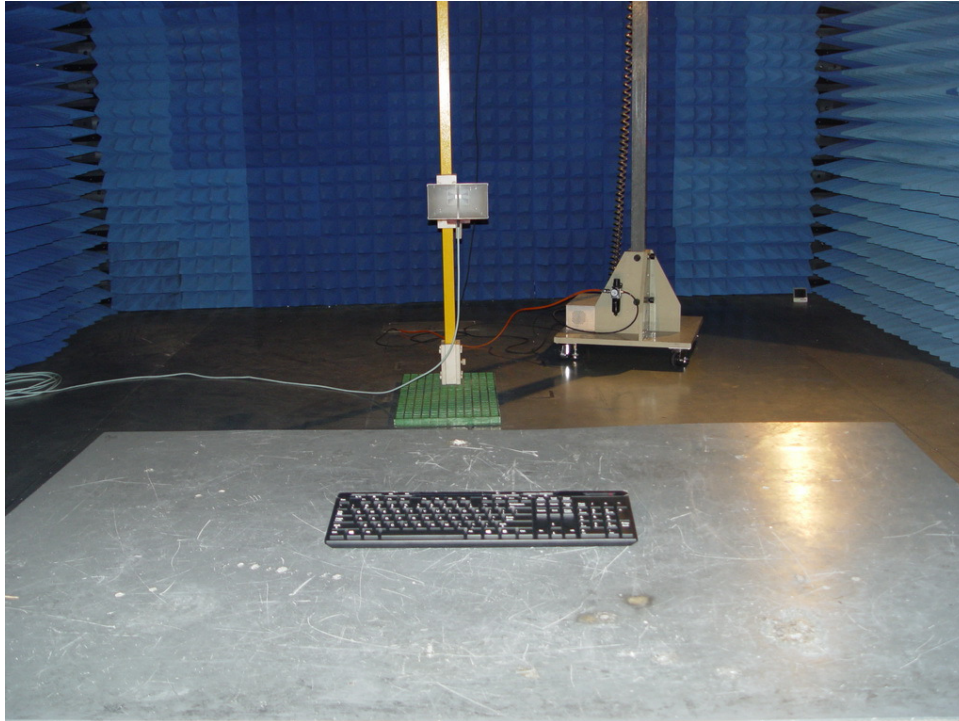
Photograph 1: Set-up for Radiated Emissions (9kHz - 30MHz)



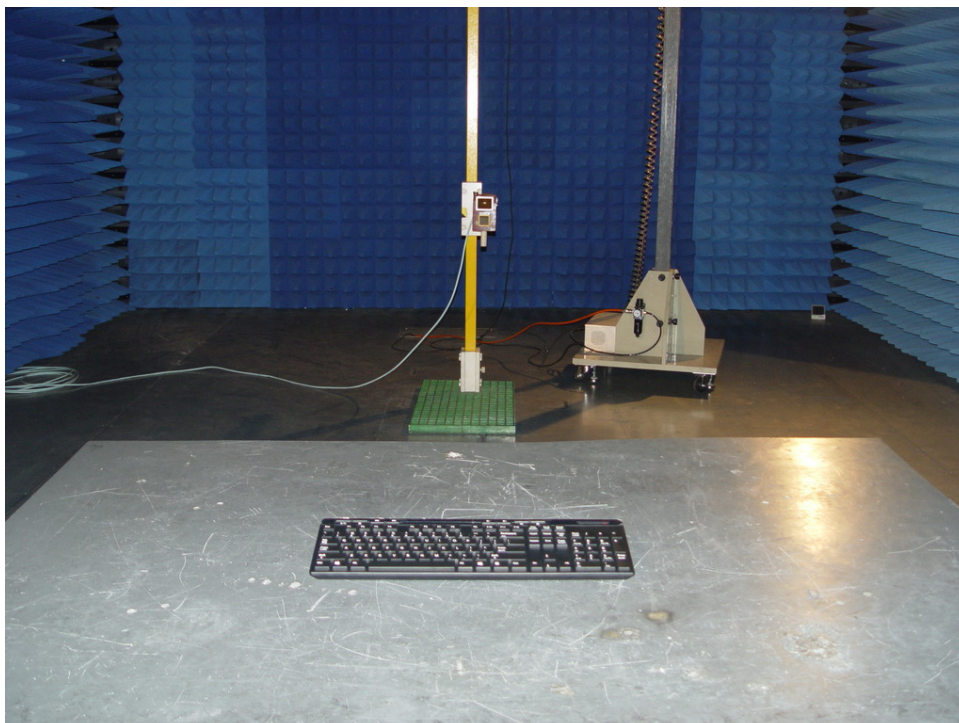
Photograph 2: Set-up for Radiated Emissions (30MHz-1GHz)



Photograph 3: Set-up for Radiated Emissions (1GHz-18GHz)



Photograph 4: Set-up for Radiated Emissions (18GHz-26GHz)



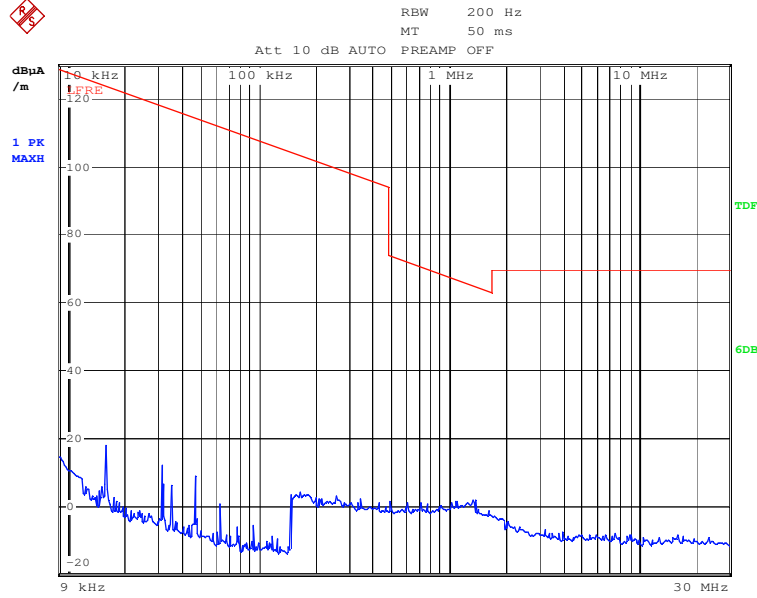
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9. List of Photographs

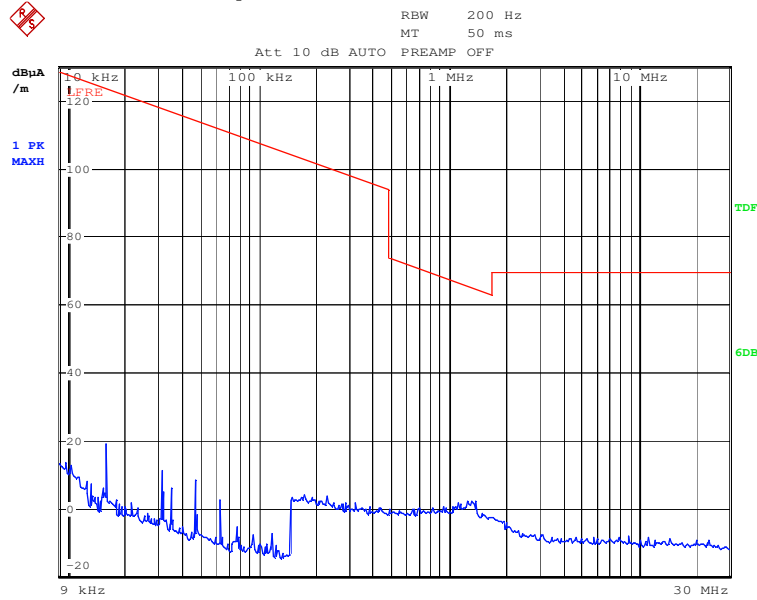
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Test Plot of Spurious emission of A.1 – Horizontal (9kHz – 30MHz)



Date: 29.DEC.2012 14:19:04

Test Plot of Spurious emission of A.1 – Vertical (9kHz – 30MHz)



Date: 29.DEC.2012 14:13:10

Test Plot of Spurious emission of A.1 – Horizontal (30MHz – 1GHz)

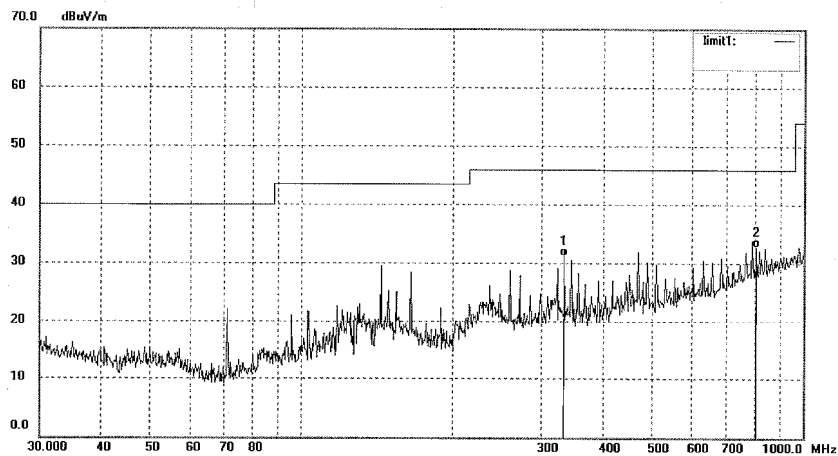


ACCURATE TECHNOLOGY CO., LTD.
 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: PYH #543	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 9/20/12
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	335.9920	13.33	17.88	31.21	46.00	-14.79	QP			
2	803.9686	5.89	26.89	32.78	46.00	-13.22	QP			

Test Plot of Spurious emission of A.1 – Vertical (30MHz – 1GHz)



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

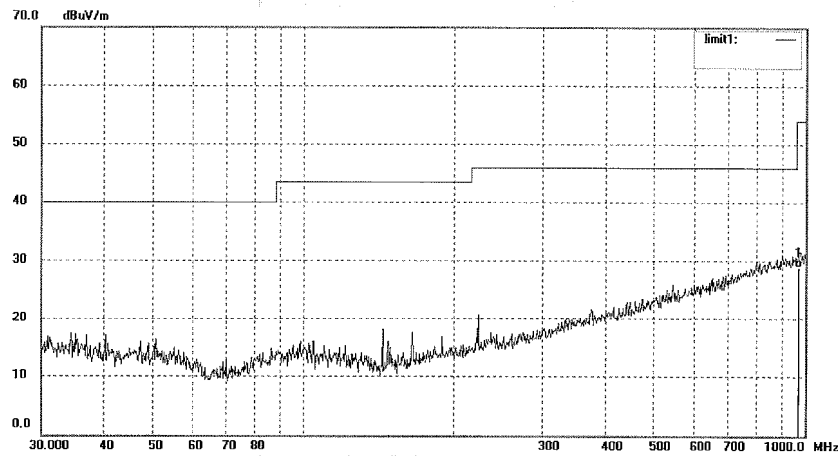
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #544	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 9/29/58
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	972.2826	0.21	28.74	28.95	54.00	-25.05	QP			

Test Plot of Spurious emission of A.1 – Horizontal (1GHz – 18GHz)

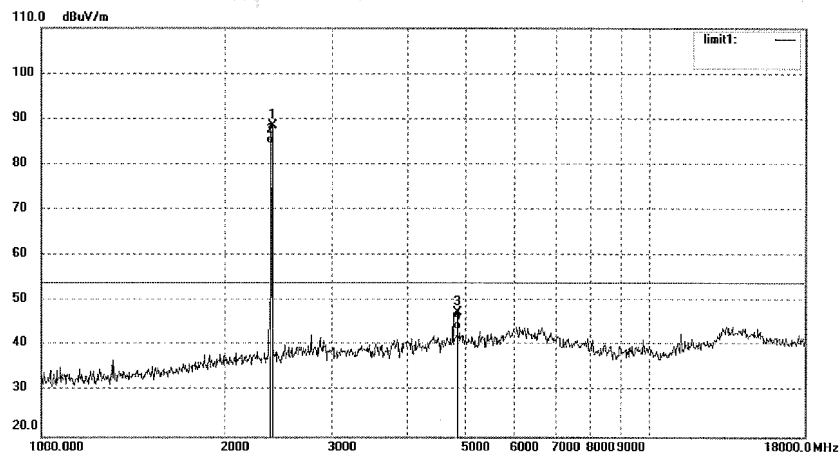


ACCURATE TECHNOLOGY CO., LTD.
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #570	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 14/04/22
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2408.440	95.86	-7.44	88.42	114.00	-25.58	peak			
2	2408.440	91.84	-7.44	84.40	94.00	-9.60	AVG			
3	4816.951	47.83	-0.23	47.60	74.00	-26.40	peak			
4	4816.951	43.65	-0.23	43.42	54.00	-10.58	AVG			

Test Plot of Spurious emission of A.1 – Vertical (1GHz – 18GHz)

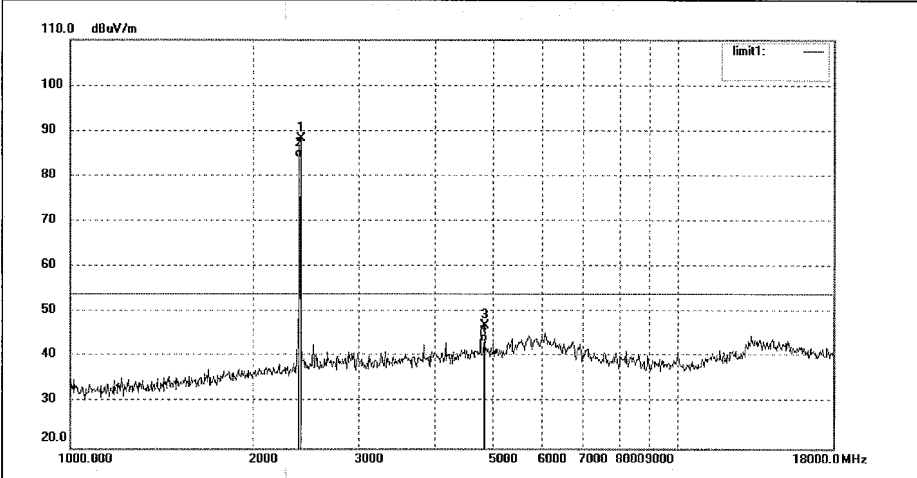


ACCURATE TECHNOLOGY CO., LTD.
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: PYH #569	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 13/50/50
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2408.443	95.77	-7.44	88.33	114.00	-25.67	peak			
2	2408.443	91.54	-7.44	84.10	94.00	-9.90	AVG			
3	4816.932	47.32	-0.23	47.09	74.00	-26.91	peak			
4	4816.932	43.45	-0.23	43.22	54.00	-10.78	AVG			

Test Plot of Spurious emission of A.1 – Horizontal (18GHz – 25GHz)

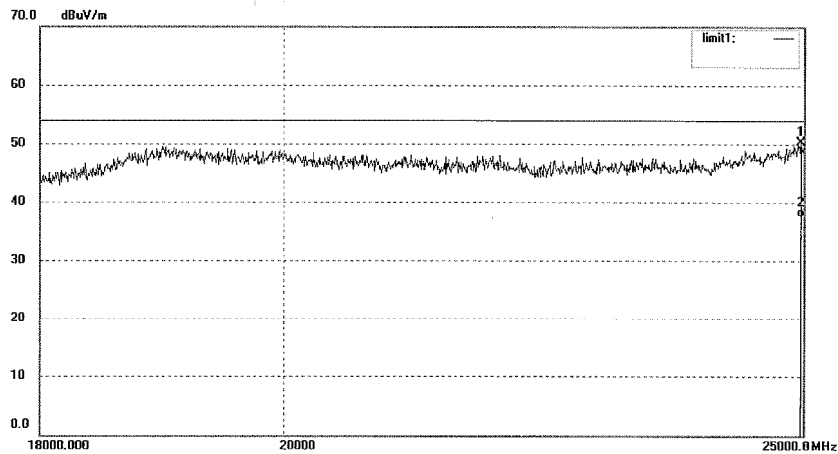


ACCURATE TECHNOLOGY CO., LTD.
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: PYH #596	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/18/25
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24975.325	31.39	18.86	50.25	54.00	-3.75	peak			
2	24975.325	18.76	18.86	37.62	54.00	-16.38	AVG			

Test Plot of Spurious emission of A.1 – Vertical (18GHz – 25GHz)

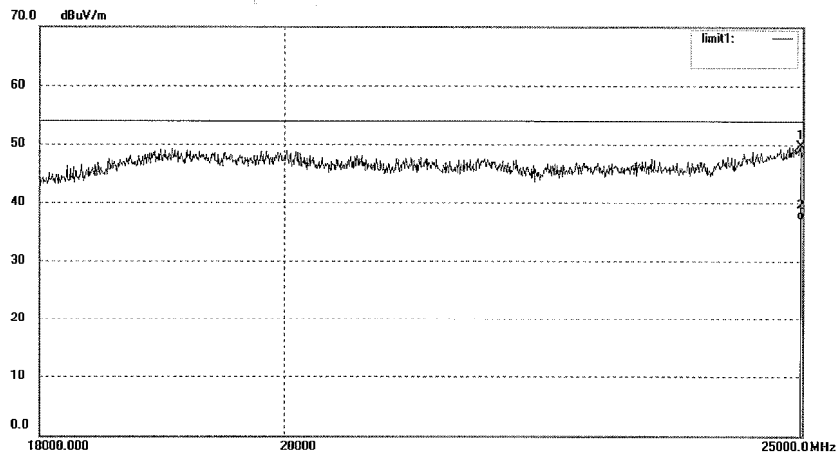


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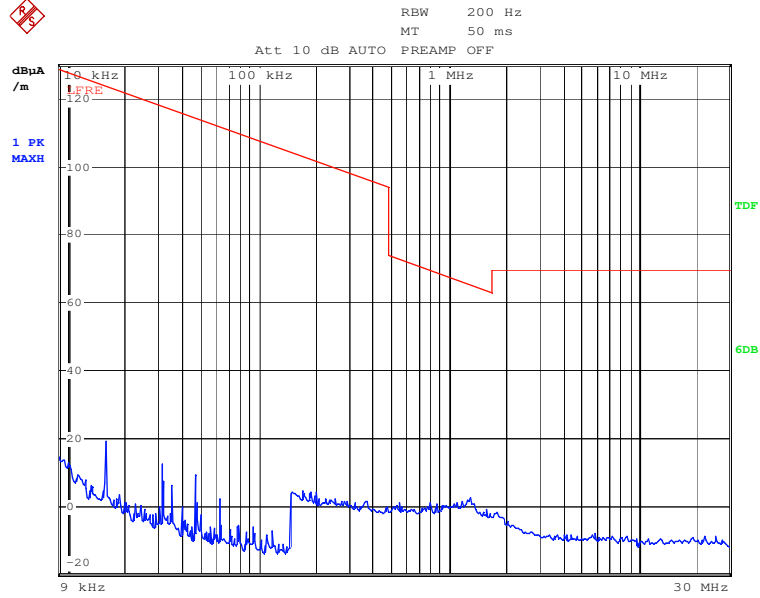
Job No.: PYH #597	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/27/35
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



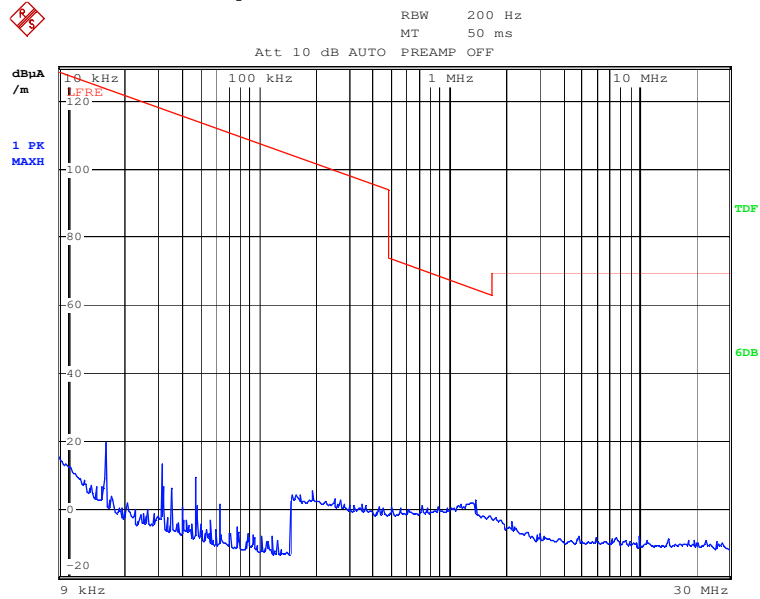
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24983.547	30.88	18.88	49.76	54.00	-4.24	peak			
2	24983.547	18.35	18.88	37.23	54.00	-16.77	AVG			

Test Plot of Spurious emission of A.2 – Horizontal (9kHz – 30MHz)



Date: 29.DEC.2012 14:38:31

Test Plot of Spurious emission of A.2 – Vertical (9kHz – 30MHz)



Date: 29.DEC.2012 14:32:29

Test Plot of Spurious emission of A.2 – Horizontal (30MHz – 1GHz)

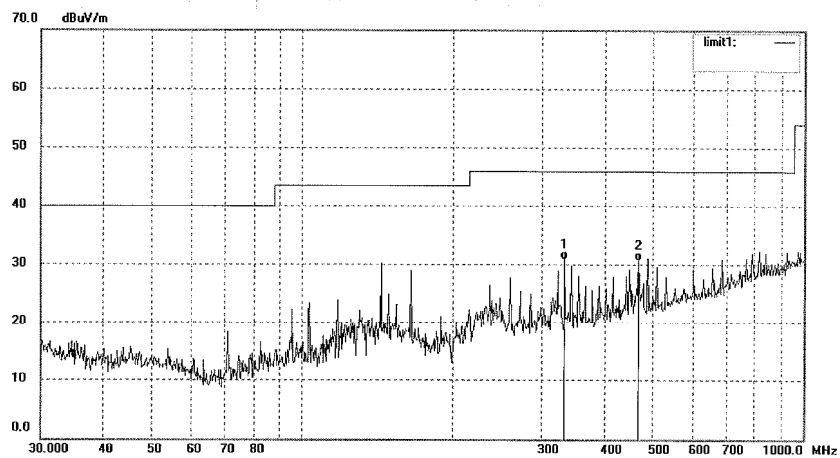


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Job No.: PYH #546	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 9/45/37
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2440MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	335.9858	13.07	17.88	30.95	46.00	-15.05	QP			
2	468.0050	9.91	20.79	30.70	46.00	-15.30	QP			

Test Plot of Spurious emission of A.2 – Vertical (30MHz – 1GHz)

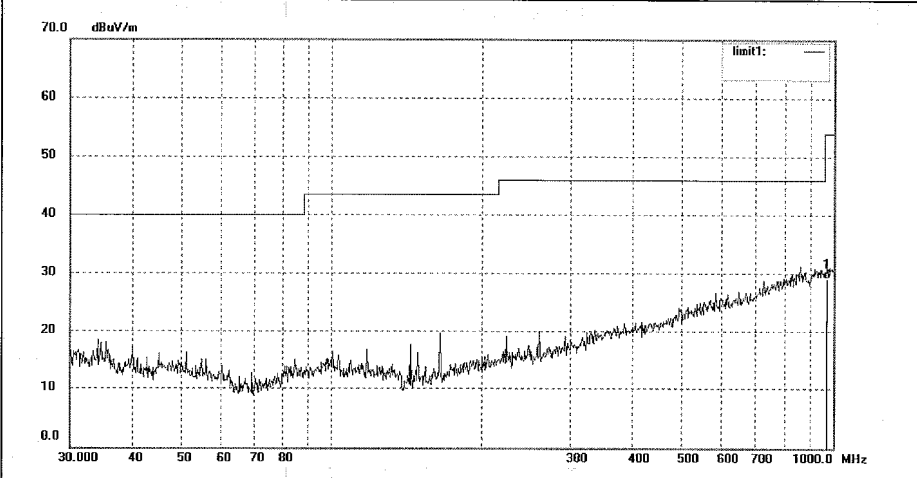


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Job No.: PYH #545	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 9/37/55
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2440MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	972.2826	0.48	28.74	29.22	54.00	-24.78	QP			

Test Plot of Spurious emission of A.2 –Horizontal (1GHz – 18GHz)

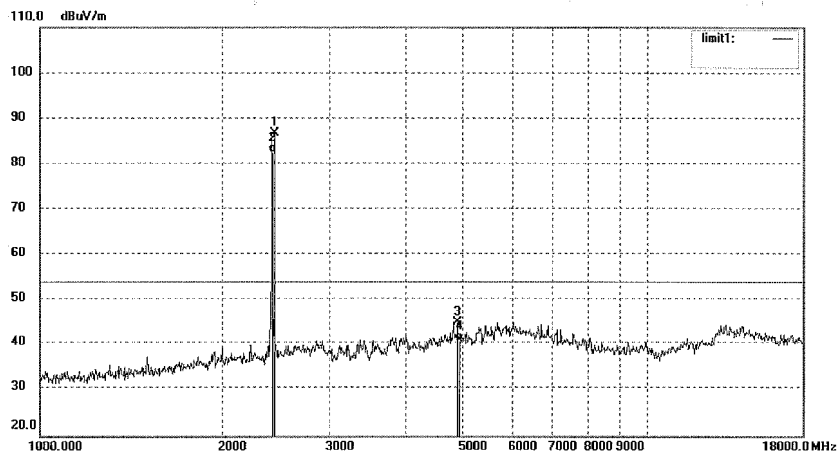


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Job No.: PYH #575	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 14/57/06
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2440MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.435	94.07	-7.35	86.72	114.00	-27.28	peak			
2	2440.435	89.85	-7.35	82.50	94.00	-11.50	AVG			
3	4880.878	44.98	0.13	45.11	74.00	-28.89	peak			
4	4880.878	40.67	0.13	40.80	54.00	-13.20	AVG			

Test Plot of Spurious emission of A.2 –Vertical (1GHz – 18GHz)

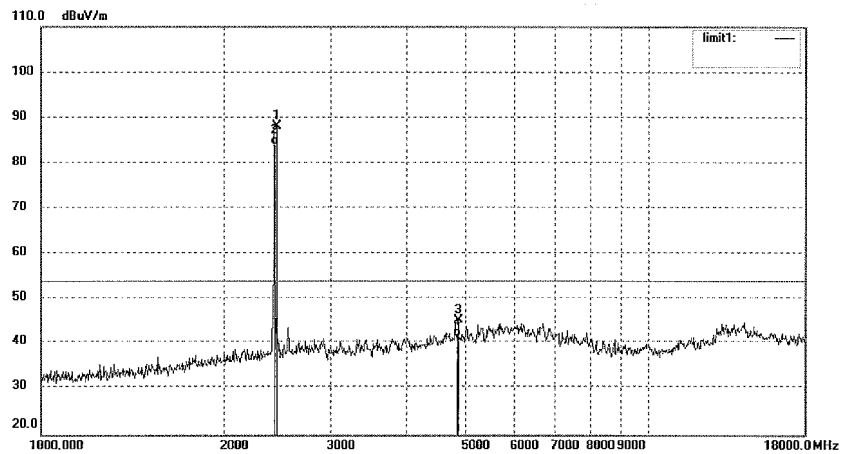


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Job No.: PYH #574	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 14/45/19
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2440MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.432	95.41	-7.35	88.06	114.00	-25.94	peak			
2	2440.432	91.35	-7.35	84.00	94.00	-10.00	AVG			
3	4880.900	45.11	0.13	45.24	74.00	-28.76	peak			
4	4880.900	41.26	0.13	41.39	54.00	-12.61	AVG			

Test Plot of Spurious emission of A.2 –Horizontal (18GHz – 25GHz)

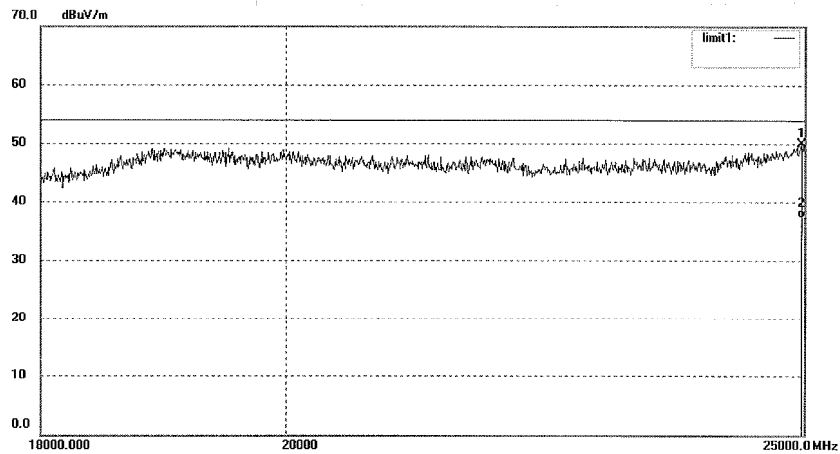


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Job No.: PYH #599	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/45/28
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2440MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24975.325	31.04	18.86	49.90	54.00	-4.10	peak			
2	24975.325	18.51	18.86	37.37	54.00	-16.63	AVG			

Test Plot of Spurious emission of A.2 –Vertical (18GHz – 25GHz)

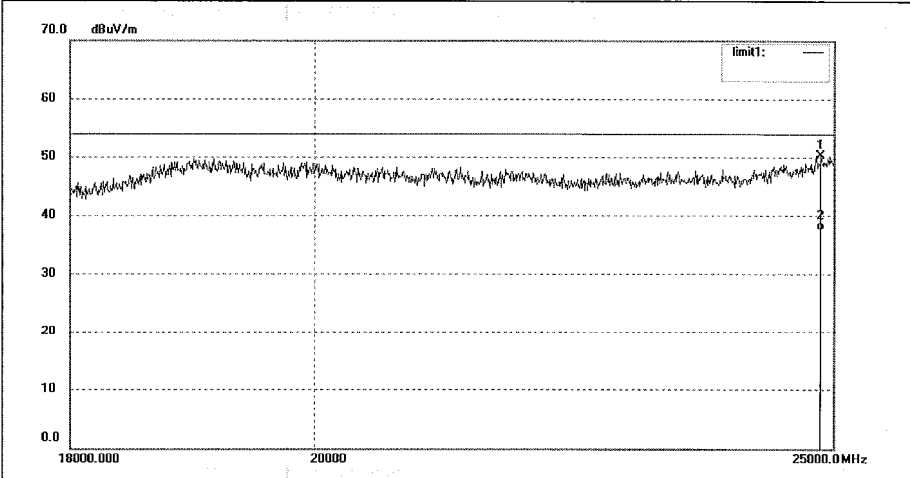


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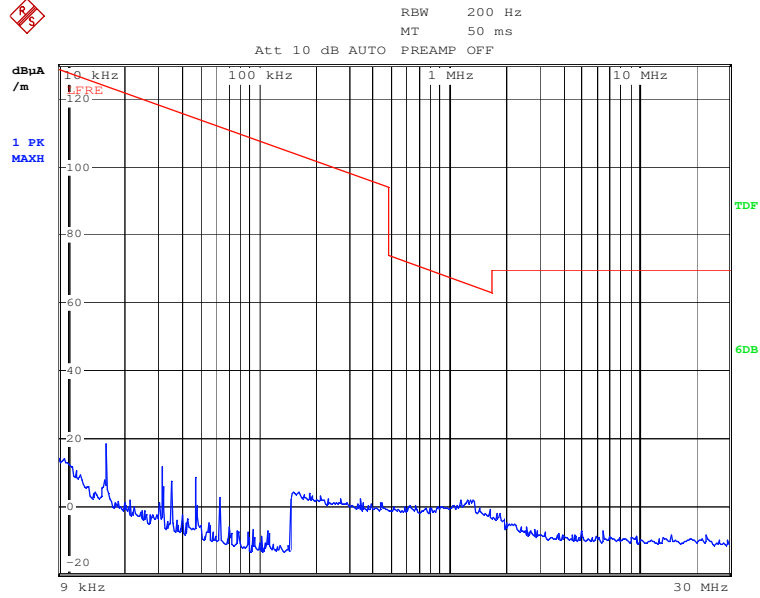
Job No.: PYH #598	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/36/47
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2440MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



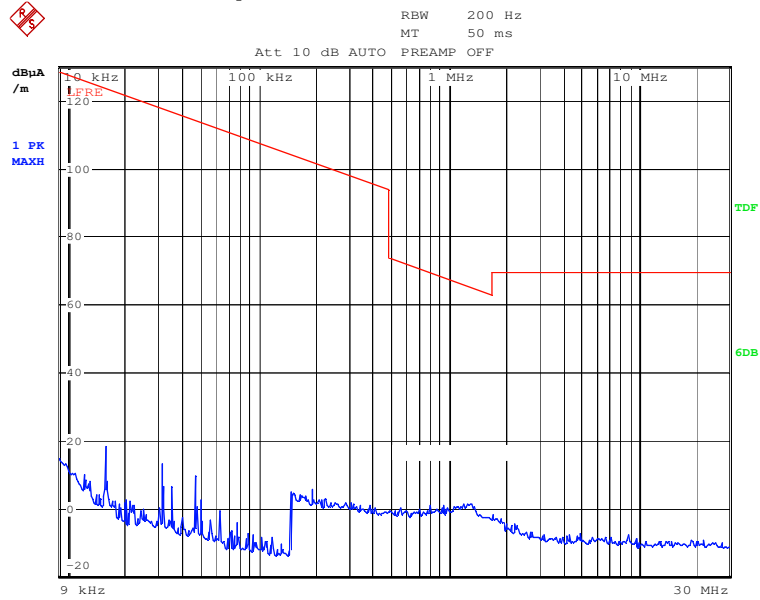
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24868.681	31.55	18.72	50.27	54.00	-3.73	peak			
2	24868.681	18.75	18.72	37.47	54.00	-16.53	AVG			

Test Plot of Spurious emission of A.3 – Horizontal (9kHz – 30MHz)



Date: 29.DEC.2012 15:00:53

Test Plot of Spurious emission of A.3 – Vertical (9kHz – 30MHz)



Date: 29.DEC.2012 14:44:29

Test Plot of Spurious emission of A.3 – Horizontal (30MHz – 1GHz)



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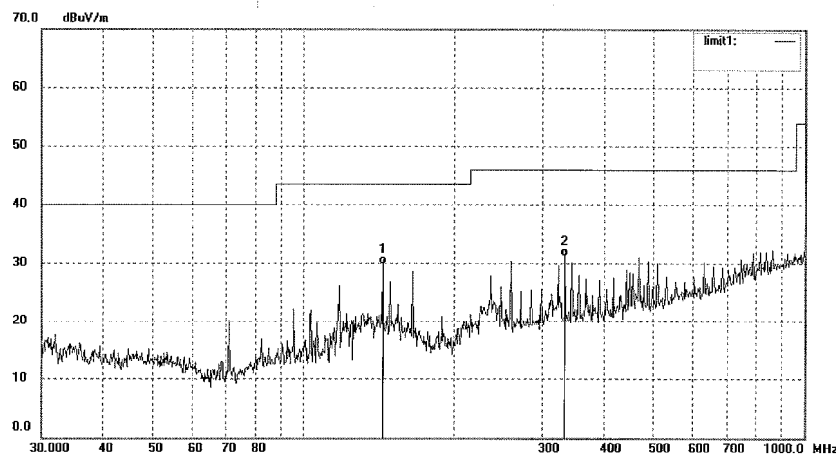
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #547	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 9/53/44
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2474MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	144.0010	18.32	11.48	29.80	43.50	-13.70	QP			
2	335.9894	13.35	17.88	31.23	46.00	-14.77	QP			

Test Plot of Spurious emission of A.3 – Vertical (30MHz – 1GHz)

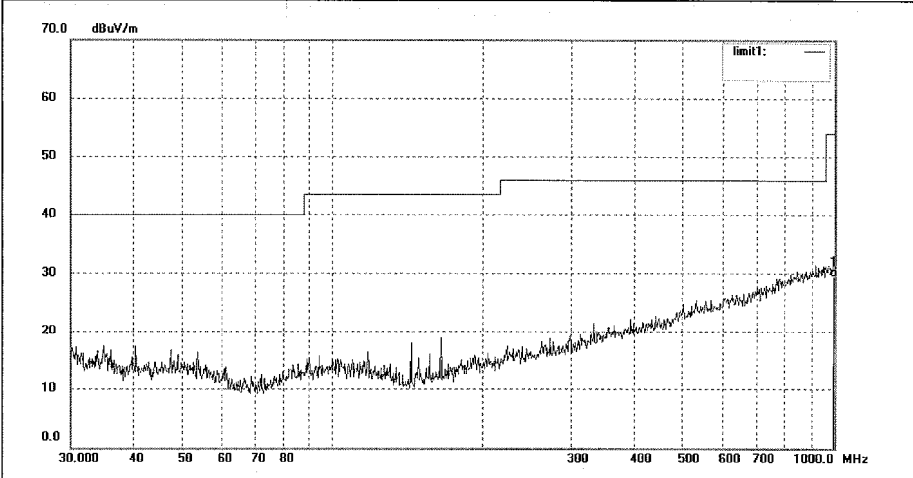


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Job No.: PYH #548	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 10/04/54
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2474MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	996.4926	0.45	28.99	29.44	54.00	-24.56	QP			

Test Plot of Spurious emission of A.3 – Horizontal (1GHz – 18GHz)

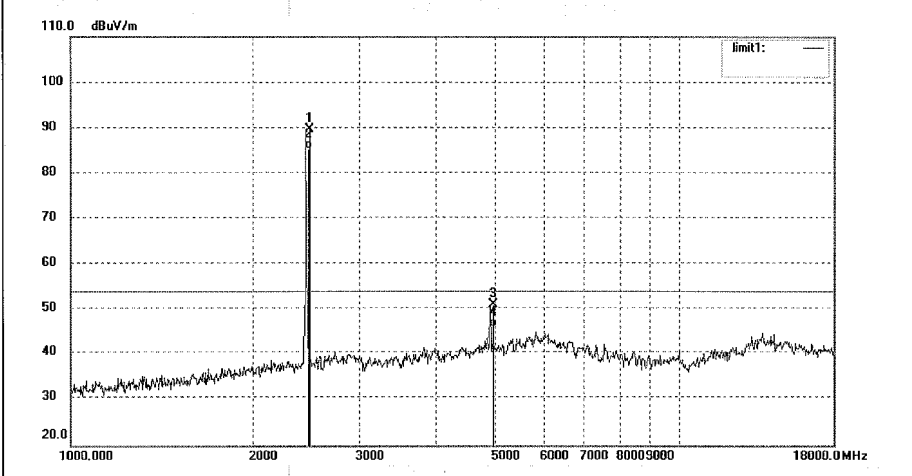


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Job No.: PYH #576	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 15/11/49
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2474MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2474.442	96.96	-7.37	89.59	114.00	-24.41	peak			
2	2474.442	92.77	-7.37	85.40	94.00	-8.60	AVG			
3	4948.841	50.63	0.47	51.10	74.00	-22.90	peak			
4	4948.841	45.64	0.47	46.11	54.00	-7.89	AVG			

Test Plot of Spurious emission of A.3 – Vertical (1GHz – 18GHz)

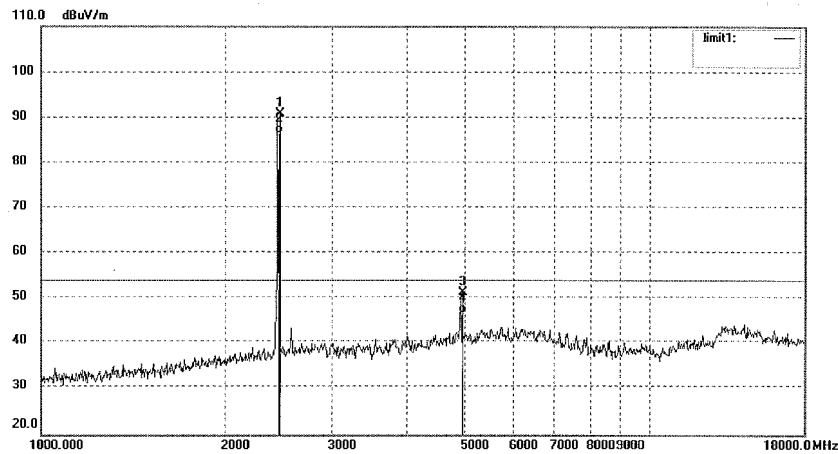


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Job No.: PYH #577	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 15/22/57
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2474MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2474.443	98.16	-7.37	90.79	114.00	-23.21	peak			
2	2474.443	93.77	-7.37	86.40	94.00	-7.60	AVG			
3	4948.888	50.81	0.47	51.28	74.00	-22.72	peak			
4	4948.888	46.43	0.47	46.90	54.00	-7.10	AVG			

Test Plot of Spurious emission of A.3 – Horizontal (18GHz – 25GHz)

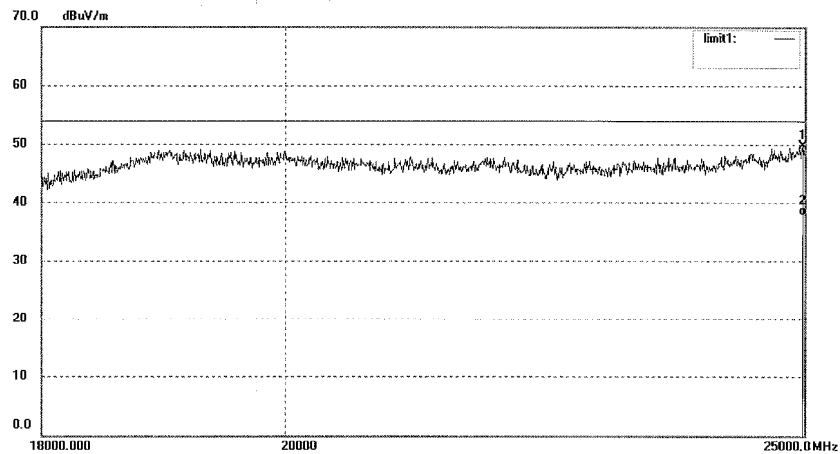


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Job No.: PYH #600	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/53/52
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2474MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24983.547	30.91	18.88	49.79	54.00	-4.21	peak			
2	24983.547	18.94	18.88	37.82	54.00	-16.18	AVG			

Test Plot of Spurious emission of A.3 – Vertical (18GHz – 25GHz)

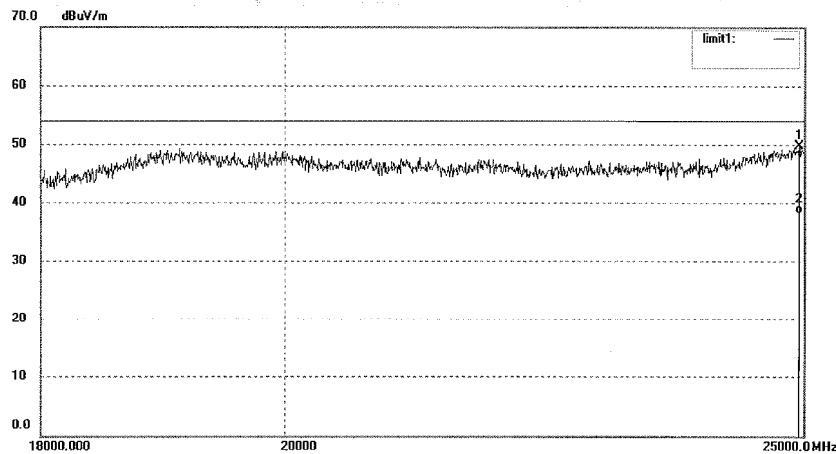


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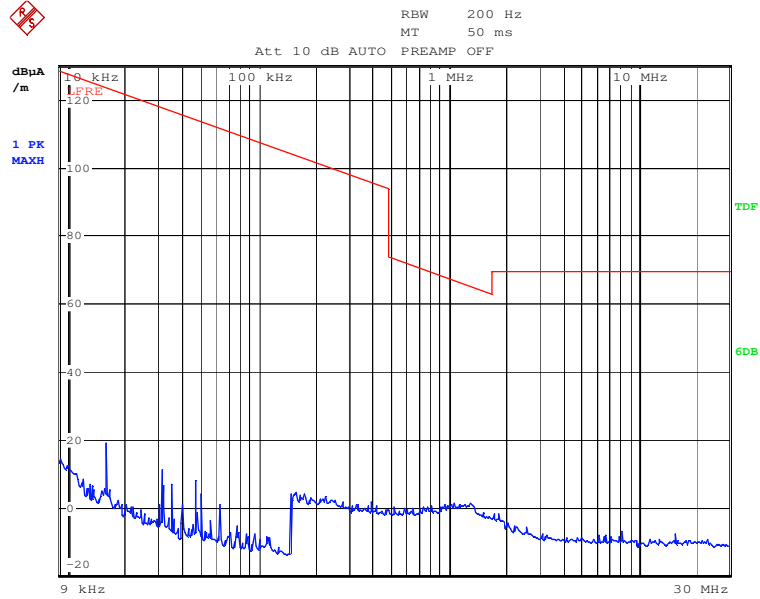
Job No.: PYH #601	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 10/05/42
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2474MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



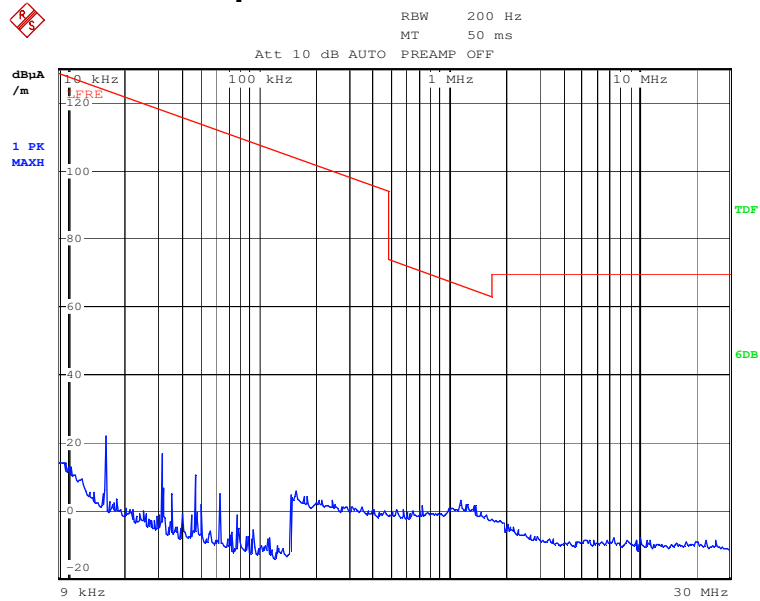
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24950.674	30.98	18.83	49.81	54.00	-4.19	peak			
2	24950.674	19.48	18.83	38.31	54.00	-15.69	AVG			

Test Plot of Spurious emission of C – Horizontal (9kHz – 30MHz)



Date: 29.DEC.2012 15:04:50

Test Plot of Spurious emission of C – Vertical (9kHz – 30MHz)



Date: 29.DEC.2012 15:12:42

Test Plot of Spurious emission of C – Horizontal (30MHz – 1GHz)



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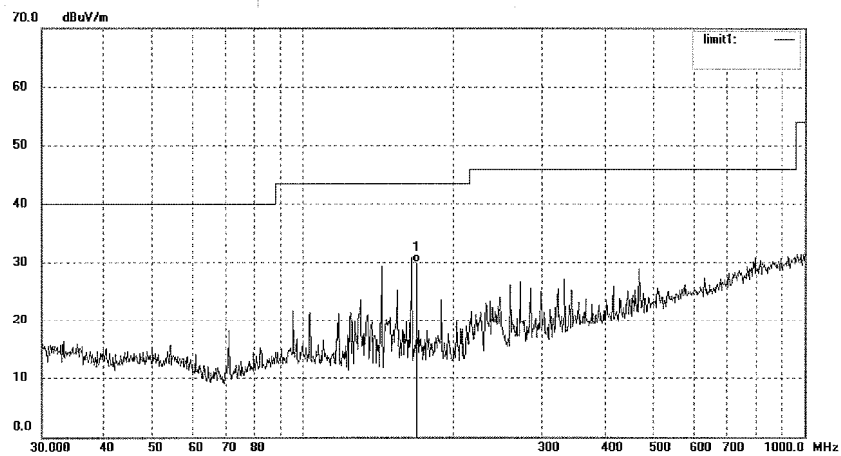
Site: 2# Chamber

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Job No.: PYH #550	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 10/24/14
EUT: Keyboard	Engineer Signature: PEI
Mode: RX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	167.9888	17.34	12.62	29.96	43.50	-13.54	QP			

Test Plot of Spurious emission of C – Vertical (30MHz – 1GHz)

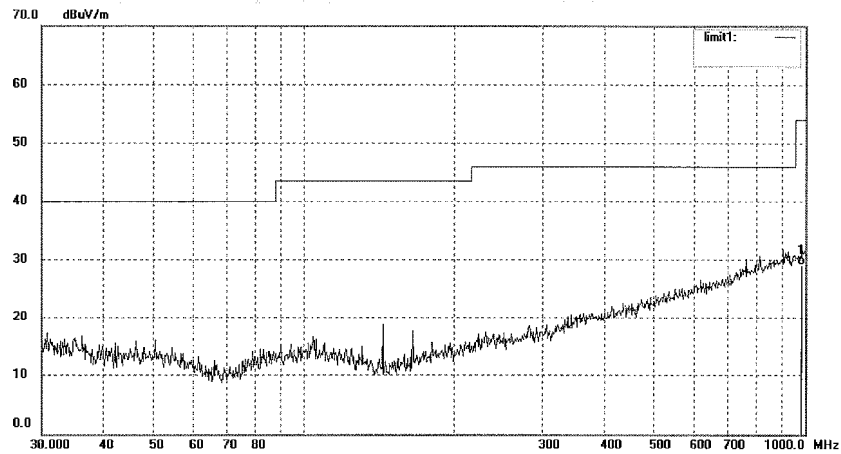


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Job No.: PYH #549	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 10/15/45
EUT: Keyboard	Engineer Signature: PEI
Mode: RX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	986.0439	0.27	28.89	29.16	54.00	-24.84	QP			

Test Plot of Spurious emission of C – Horizontal (1GHz – 18GHz)

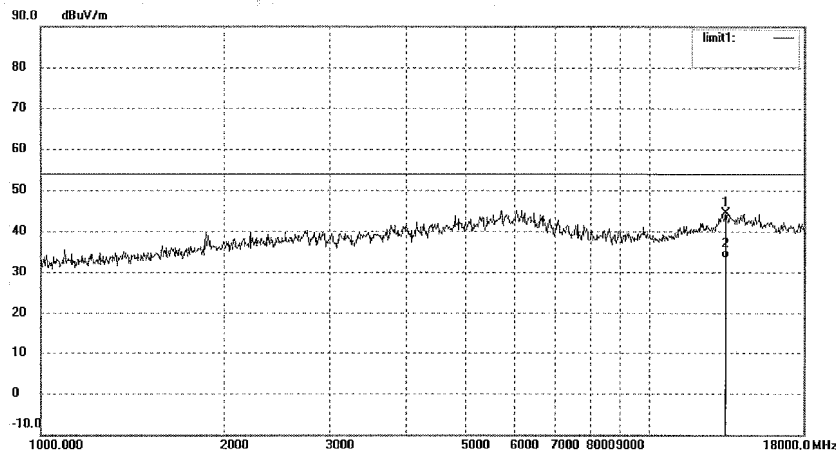


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Job No.: PYH #580	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 15/58/28
EUT: Keyboard	Engineer Signature: PEI
Mode: RX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	13416.285	4.79	39.50	44.29	54.00	-9.71	peak			
2	13416.285	-6.00	39.50	33.50	54.00	-20.50	AVG			

Test Plot of Spurious emission of C – Vertical (1GHz – 18GHz)

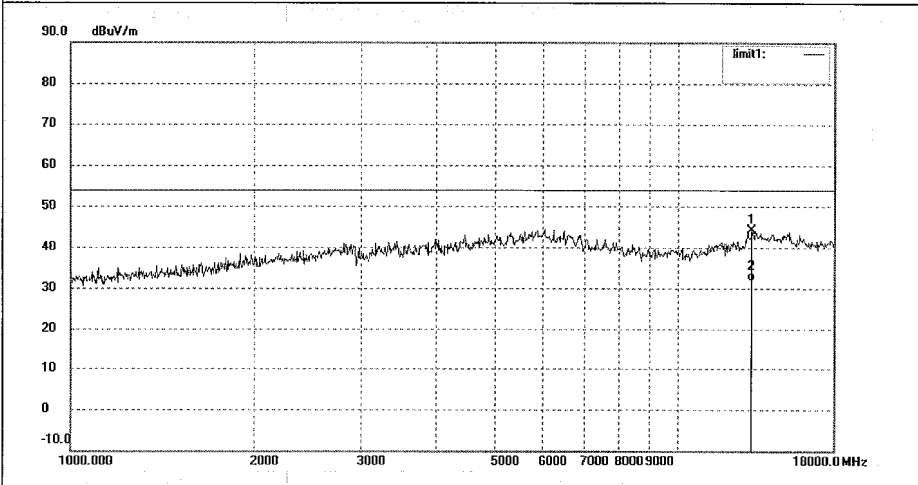


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: PYH #581	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 16/09/31
EUT: Keyboard	Engineer Signature: PEI
Mode: RX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	13221.345	4.79	39.27	44.06	54.00	-9.94	peak			
2	13221.345	-7.47	39.27	31.80	54.00	-22.20	AVG			

Test Plot of Spurious emission of C – Horizontal (18GHz – 25GHz)

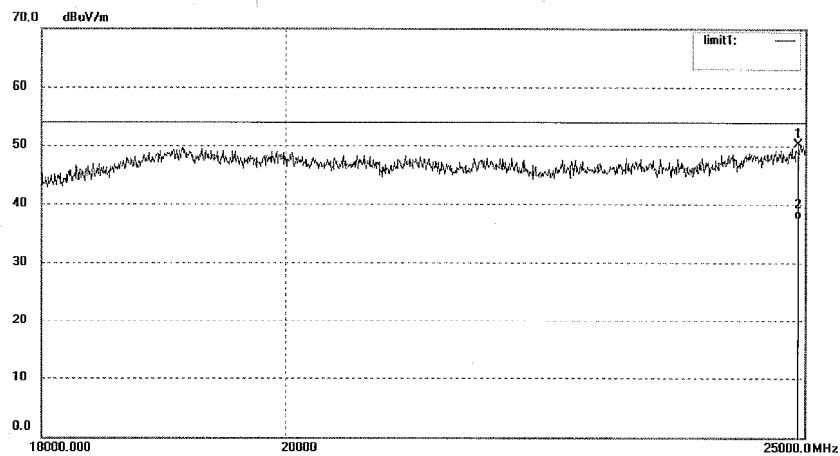


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Site: 2# Chamber
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Job No.: PYH #602	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 10/13/12
EUT: Keyboard	Engineer Signature: PEI
Mode: RX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24934.254	31.52	18.81	50.33	54.00	-3.67	peak			
2	24934.254	18.65	18.81	37.46	54.00	-16.54	AVG			

Test Plot of Spurious emission of C – Vertical (18GHz – 25GHz)

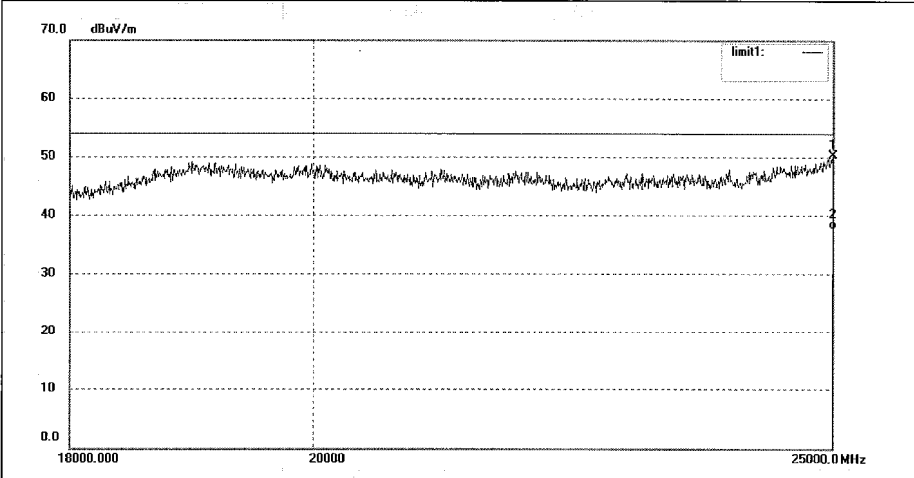


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Job No.: PYH #603	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 10/22/35
EUT: Keyboard	Engineer Signature: PEI
Mode: RX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25000.000	31.38	18.90	50.28	54.00	-3.72	peak			
2	25000.000	18.88	18.90	37.78	54.00	-16.22	AVG			

Test Plot of Radiated emissions in restricted bands, Mode A.1, Horizontal

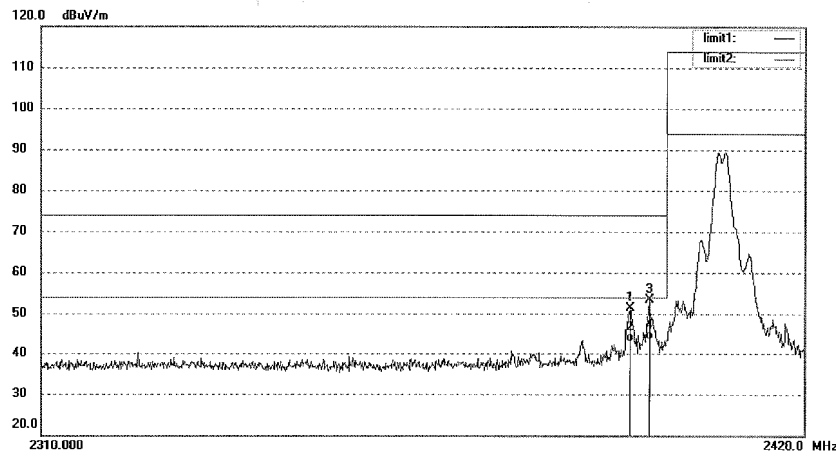


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Site: 2# Chamber
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Job No.: PYH #571	Polarization: Horizontal
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 14/15/45
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2394.528	58.92	-7.49	51.43	74.00	-22.57	peak			
2	2394.528	50.29	-7.49	42.80	54.00	-11.20	AVG			
3	2397.424	60.82	-7.48	53.34	74.00	-20.66	peak			
4	2397.424	50.98	-7.48	43.50	54.00	-10.50	AVG			

Test Plot of Radiated emissions in restricted bands, Mode A.1, Vertical

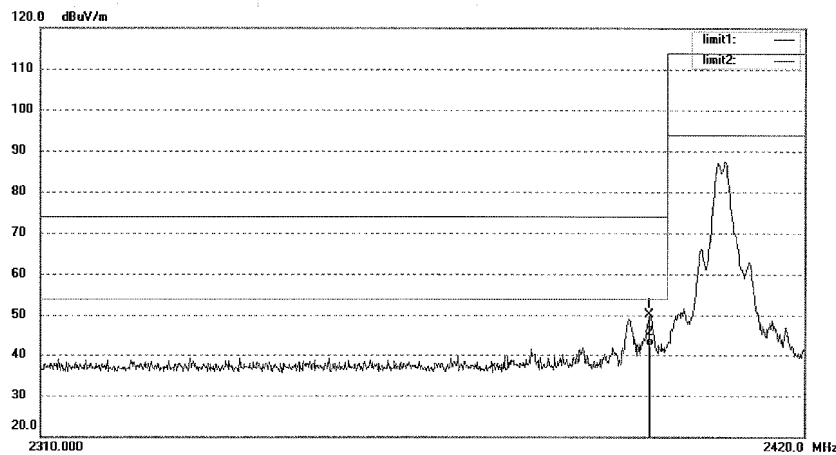


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Site: 2# Chamber
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Job No.: PYH #572	Polarization: Vertical
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 14/31/45
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2397.312	57.64	-7.48	50.16	74.00	-23.84	peak			
2	2397.312	49.68	-7.48	42.20	54.00	-11.80	AVG			

Test Plot of Radiated emissions in restricted bands, Mode A.3, Horizontal

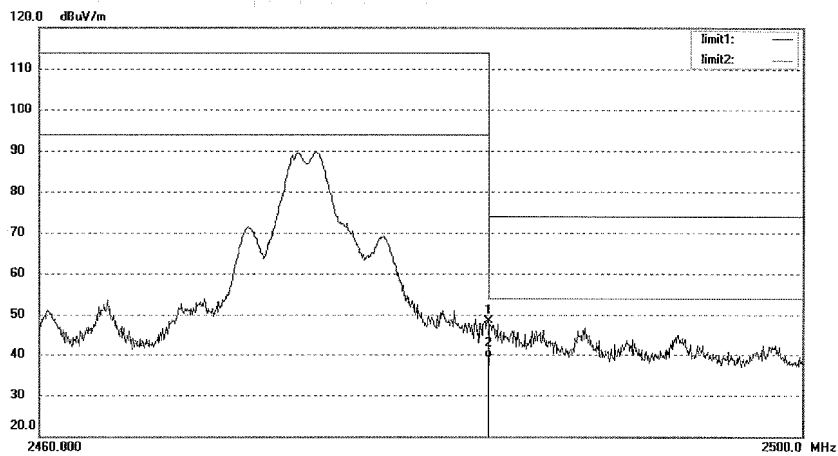


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Site: 2# Chamber
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Job No.: PYH #579	Polarization: Horizontal
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 15/47/55
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2474MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	55.74	-7.37	48.37	74.00	-25.63	peak			
2	2483.500	46.57	-7.37	39.20	54.00	-14.80	AVG			

Test Plot of Radiated emissions in restricted bands, Mode A.3, Vertical



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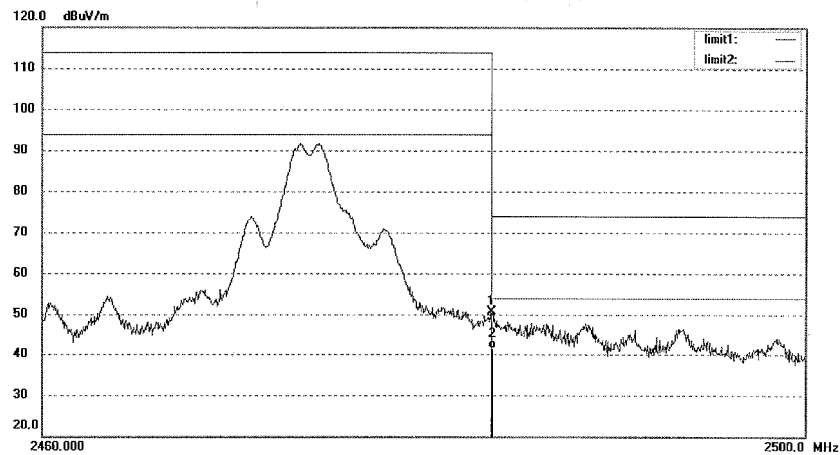
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #578	Polarization: Vertical
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 15/34/12
EUT: Keyboard	Engineer Signature: PEI
Mode: TX 2474MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	57.89	-7.37	50.52	74.00	-23.48	peak			
2	2483.500	48.67	-7.37	41.30	54.00	-12.70	AVG			