

Prüfbericht - Nr.: 17025702 001

Test Report No.:

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Auftraggeber:

Primax Electronics Ltd.

Client:

No. 669, Ruey Kuang Road. Neihu 114, Taipei, Taiwan

Gegenstand der Prüfung:

Capsule Keyboard Case

Test item:

Bezeichnung:

RF-iCAP23

Serien-Nr.:

n.a.

Identification:

Serial No.:

Wareneingangs-Nr.:

163025702

Eingangsdatum:

03.05.2012

Receipt No.:

Date of receipt:

Zustand des Prüfgegenstandes bei Anlieferung:

Test samples received was intact and correct functioning for testing.

Condition of test item at delivery:

Prüfört:

Shenzhen Accurate Technology Co., Ltd.

Testing location:

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

FCC Registration No.: 752051

Test Site Industry Canada No.: 5077A-2

Prüfgrundlage:

**FCC CFR47 Part 15: Subpart C Section 15.247
FCC CFR47 Part 15: Subpart C Section 15.207
FCC CFR47 Part 15: Subpart C Section 15.209
FCC CFR47 Part 15: Subpart B Section 15.107
FCC CFR47 Part 15: Subpart B Section 15.109
RSS-210 Issue 8 December 2010
RSS-Gen Issue 3 December 2010
RSS-102 Issue 4 March 2010**

Test specification:

Prüfergebnis:

Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).

Test Result:

The test item passed the test specification(s).

Prüflaboratorium:

TÜV Rheinland (Shenzhen) Co., Ltd.

Testing Laboratory:

geprüft/ tested by:

kontrolliert/ reviewed by:

07.06.2012

Sam Lin/ Project Manager

07.06.2012

Shawn Peng/ Technical Certifier

Datum

Name/Stellung

Unterschrift

Datum

Name/Stellung

Unterschrift

Date

Name/Position

Signature

Date

Name/Position

Signature

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 PEAK OUTPUT POWER***RESULT: Passed***5.1.3 20DB BANDWIDTH AND 99% BANDWIDTH***RESULT: Passed***5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH***RESULT: Passed***5.1.5 SPURIOUS EMISSIONS***RESULT: Passed***5.1.6 FREQUENCY SEPARATION***RESULT: Passed***5.1.7 NUMBER OF HOPPING FREQUENCY***RESULT: Passed***5.1.8 TIME OF OCCUPANCY***RESULT: Passed***5.1.9 RADIATED EMISSIONS***RESULT: Passed***5.1.10 CONDUCTED EMISSIONS***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.

(FCC Registration No.: 752051 & Test Site Industry Canada No.: 5077A-2)

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

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 No.	Serial No.	Calibrated until
Spurious & Radiated emissions				
EMI Test Receiver	Rohde & Schwarz	ESPI3	101526/003	Jan.08.2013
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan.08.2013
Pre-Amplifier	Rohde & Schwarz	CBLU1183540-01	3791	Jan.08.2013
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan.08.2013
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan.08.2013
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan.08.2013
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan.08.2013
Conducted emissions				
EMI Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan.08.2013
LISN	Rohde & Schwarz	ESH3-Z5	100305	Jan.08.2013
RF test				
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	Jan.04.2013
TEST RECEIVER	Rohde & Schwarz	ESPI-3	100396/003	Jan.08.2013

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 as below table

Test Item	Measurement Frequency Range	U (dB)	NOTE
Conducted Emissions	150 KHz ~ 30MHz	±1.94	--
	30MHz ~ 200MHz	±3.82	--
Radiated Emissions	200MHz ~ 1,000MHz	±3.94	--
	1GHz ~ 18GHz	±1.47	--
	18GHz ~ 30GHz	±1.53	--

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix1 of 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 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 wireless keyboard with Bluetooth technology for iPad.
This device supports Bluetooth Specification V2.0, the firmware only supports DH1 packet type. This device only supports HID profile.
For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Rating of EUT

Kind of Equipment:	iPad2 Keyboard Capsule
Type Designation:	RF-iCAP23
FCC ID:	EMJKRF-ICAP23
IC ID:	4251A-KRFICAP23

Table 3: Technical Specification of EUT

Technical Specification	Value
Operating Frequency band	2402 – 2480 MHz
Channel separation	1MHz
Operation Voltage	DC 3.7V via Lithium battery
Charging Voltage	DC 5V via USB port
Modulation	GFSK
Antenna Type	Printed Antenna, Non-User Replaceable
Antenna Gain	-0.56dBi
RF Output Power	0.000257W (-5.9dBm)

Table 4: Frequency hopping information

Technical Specification	Description
Hopping Range	<p>Hereby we declare that the maximum frequency of this device is: 2402-2480MHz. This is according the Bluetooth Core Specification V2.0 for devices which will be operated in the USA. This was checked during the Bluetooth Qualification tests (Test Case: TRM/CA/04-E).</p>
Hopping Sequence	<p>Example of a 79 hopping sequence in data mode:</p> <p>33,04,21,44,23,42,53,46,55,48,40,59,72,29,76,31,08,73,07,75,09,45,60,39,58,13,47,11,77,52,35,50,65,54,67,56,69,62,71,64, 7,25,27,66,57,70,74,61,78,63,10,41,05,43,15,44,64,68,02,70,06,01,51,03,55,05,03,66,53,49,36,47,</p>
Receiver input bandwidth	<p>The input bandwidth of the receiver is 1MHz. In every connection one Bluetooth device is the master and the other one is the slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master.</p> <p>Additionally the type of connection is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.</p> <p>Repeating of a packer has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case.</p> <p>That means a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.</p>

3.3 Independent Operation Modes

The basic operation modes are:

- A. Transmitting
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. Receiving
- C. Charging by USB port
- 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
- 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.

4.3 Special Accessories and Auxiliary Equipment

Equipment	Manufacturer	Model	FCC ID	S/N
PC	Dell 320	DCSM	DOC	J4JQ52X
LCD monitor	Dell	E177FPc	DOC	CNOFJ179-64180-6AG-1WNS
USB Keyboard	Dell	L100	DOC	CNORH6596589071 T08NE
USB Mouse	Dell	MO56UOA	DOC	FQJ000BS
Modem	ACEEX	DM-1414V	IFAXDm1414	0603002131
Printer	SII	DPU-414	DOC	3018507 B
IPAD	Apple	A1337	BCG-E2328A	GB023CTEA90

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

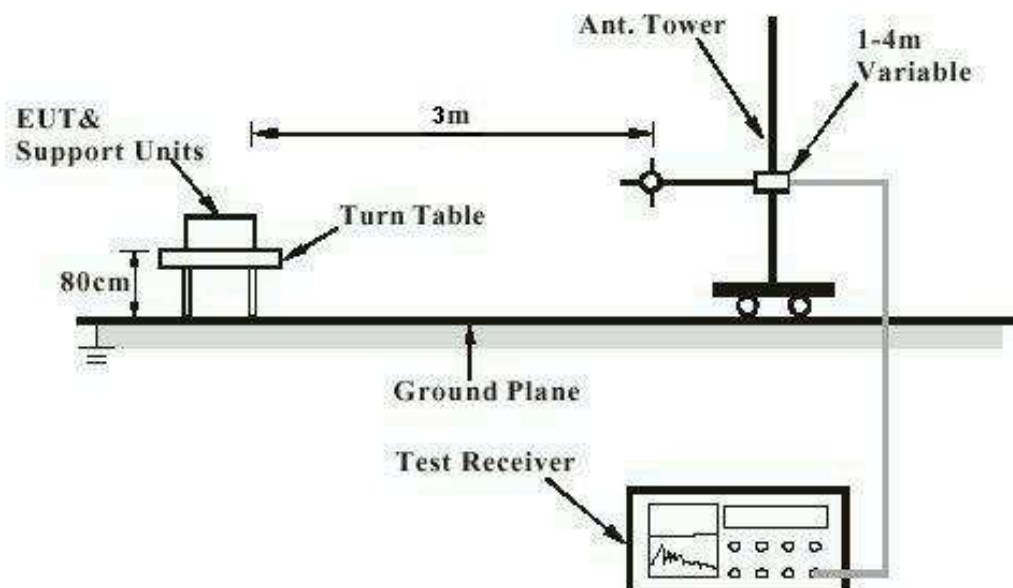


Diagram of Measurement Equipment Configuration for Conduction Measurement

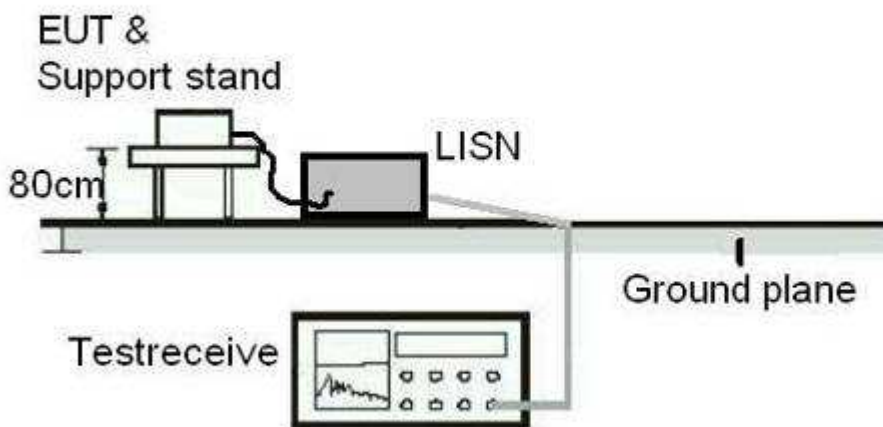
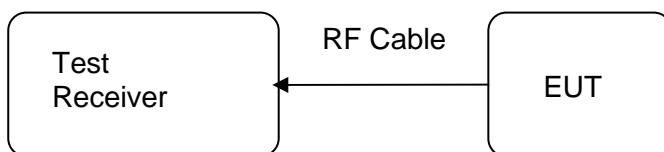


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Passed**

Test date	:	2012-05-25
Test standard	:	FCC Part 15.247(b)(4) and Part 15.203 RSS-Gen 7.1.4
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 -0.56dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to compliance the provision.

Refer to EUT photo for details.

5.1.2 Peak Output Power

RESULT:
Passed

Test date : 2012-05-25
 Test standard : FCC Part 15.247(b)(1)
 RSS-210 A8.4(2)
 Basic standard : ANSI C63.4: 2003
 Limit : 1 Watt
 Kind of test site : Shielded room

Test setup

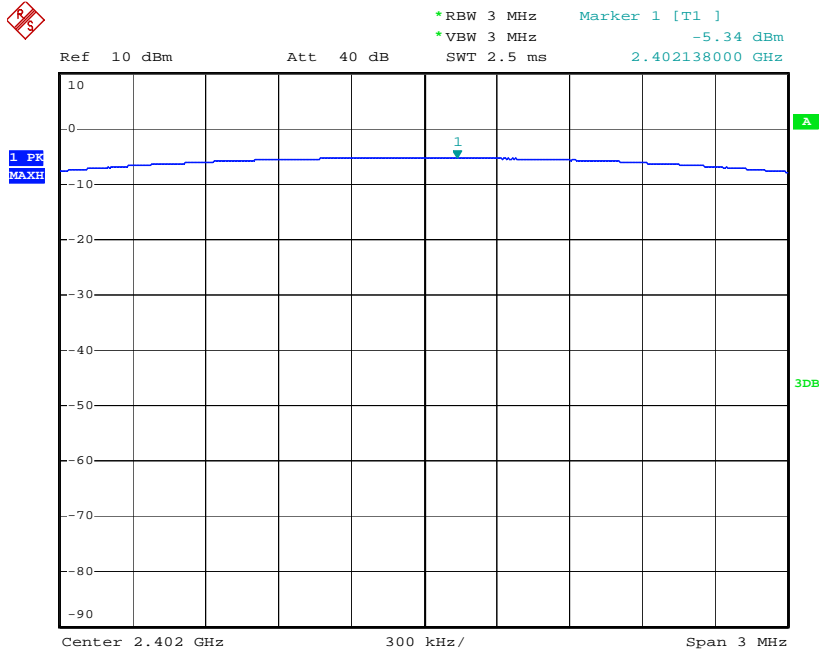
Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 25°C
 Relative humidity : 50%
 Atmospheric pressure : 101.0 kPa

Table 5: Test result of Peak Output Power

Channel	Channel Frequency (MHz)	Peak Output Power		Limit (W)
		(dBm)	(W)	
Low Channel	2402	-5.90	0.000257	0.125
Middle Channel	2441	-7.00	0.0002	0.125
High Channel	2480	-8.35	0.000146	0.125

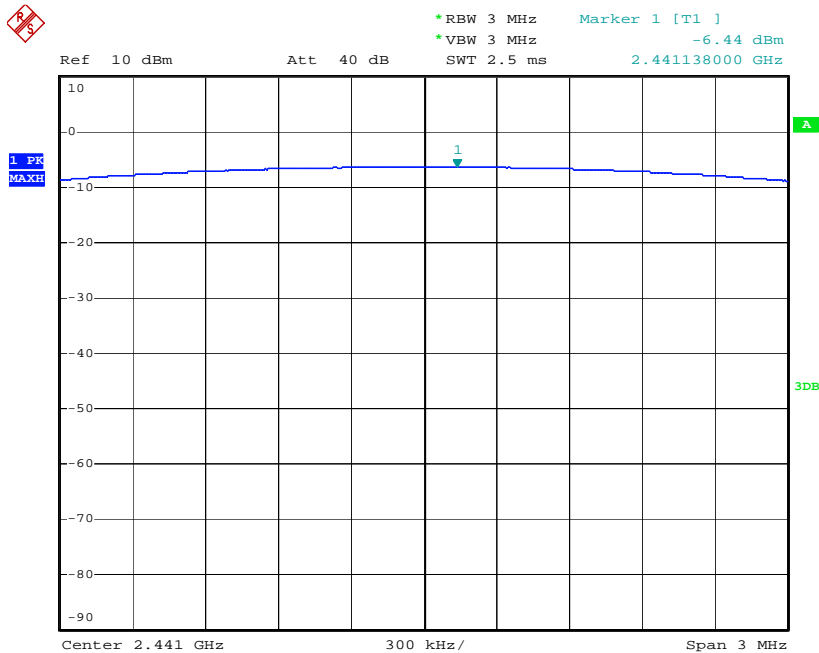
Test Graph of Peak Output Power

Low Channel



Date: 25.MAY.2012 11:22:26

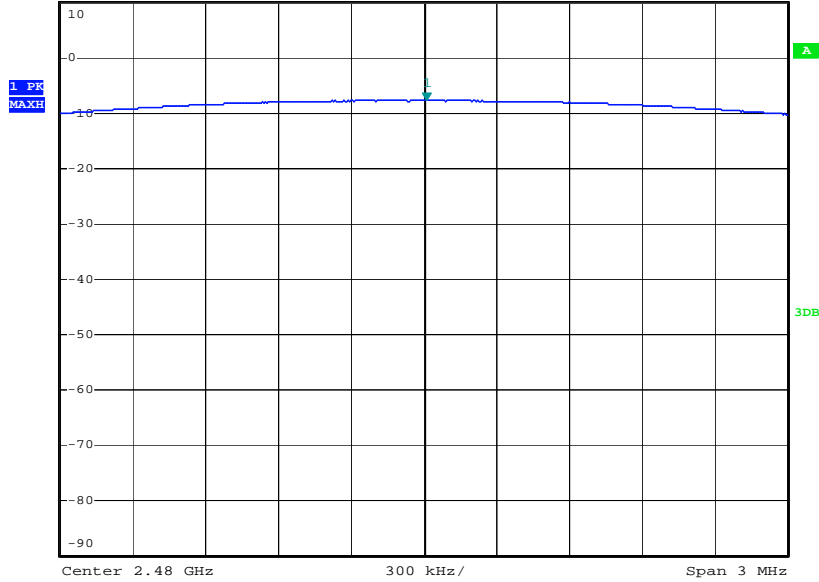
Middle Channel



Date: 25.MAY.2012 11:21:00

High Channel


*RBW 3 MHz Marker 1 [T1]
 *VBW 3 MHz -7.79 dBm
 Ref 10 dBm Att 40 dB SWT 2.5 ms 2.480012000 GHz



Date: 25.MAY.2012 11:18:36

5.1.3 20dB Bandwidth and 99% Bandwidth

RESULT:
Passed

Date of testing : 2012-05-25
 Test standard : FCC Part 15.247(a)(1)
 : RSS-210 A8.1(a)
 Basic standard : ANSI C63.4: 2003
 Kind of test site : Shielded room

Test setup

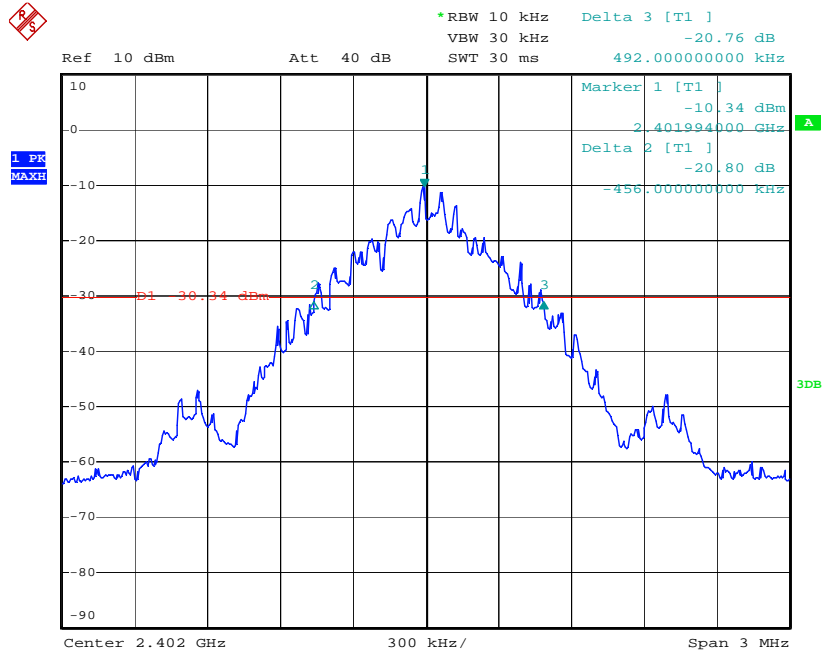
Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 25°C
 Relative humidity : 50%
 Atmospheric pressure : 101.0 kPa

Table 6: Test result of 20dB Bandwidth and 99% Bandwidth

Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)	Result
Low Channel	2402	948.00	978.00	Pass
Mid Channel	2441	936.00	966.00	Pass
High Channel	2480	936.00	966.00	Pass

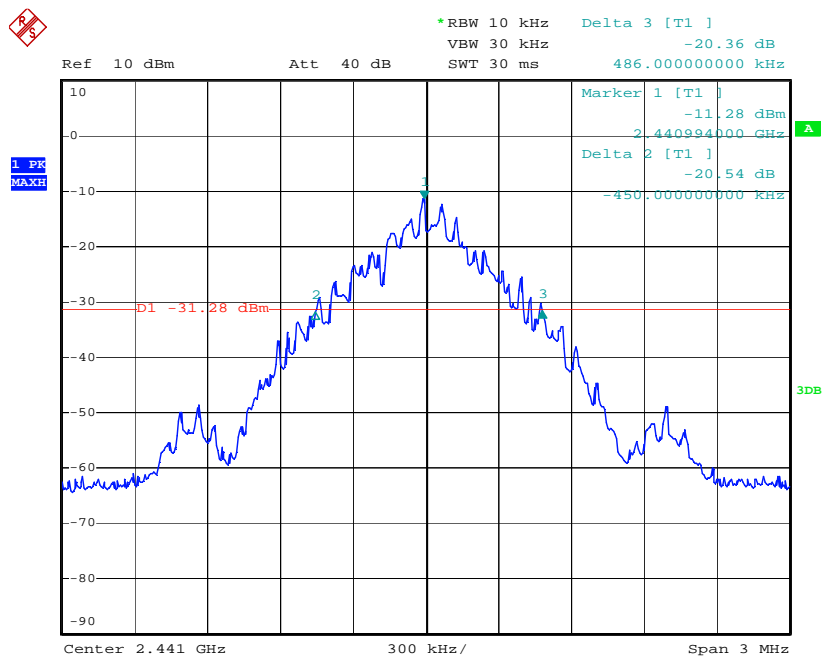
Test Graph of 20dB Bandwidth

Low Channel



Date: 25.MAY.2012 10:59:58

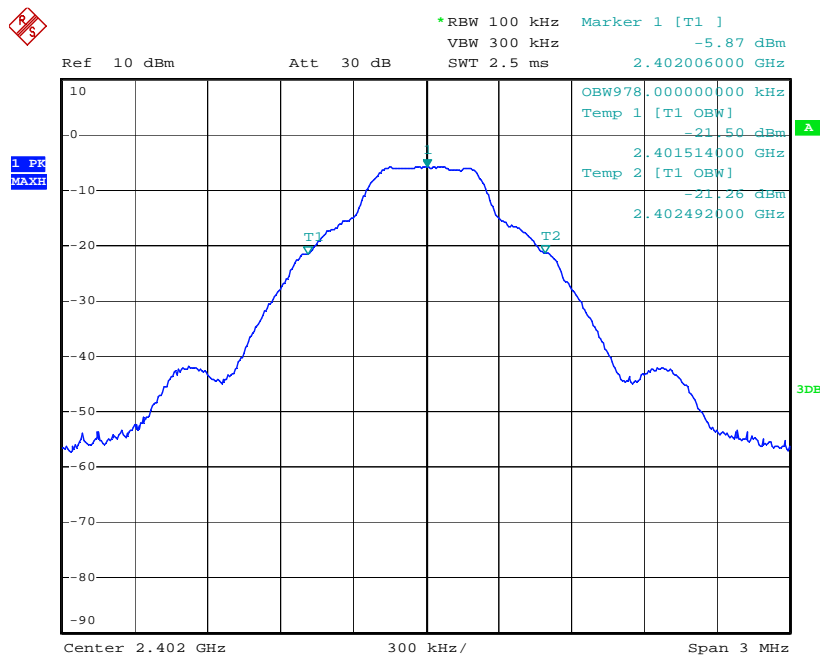
Middle Channel



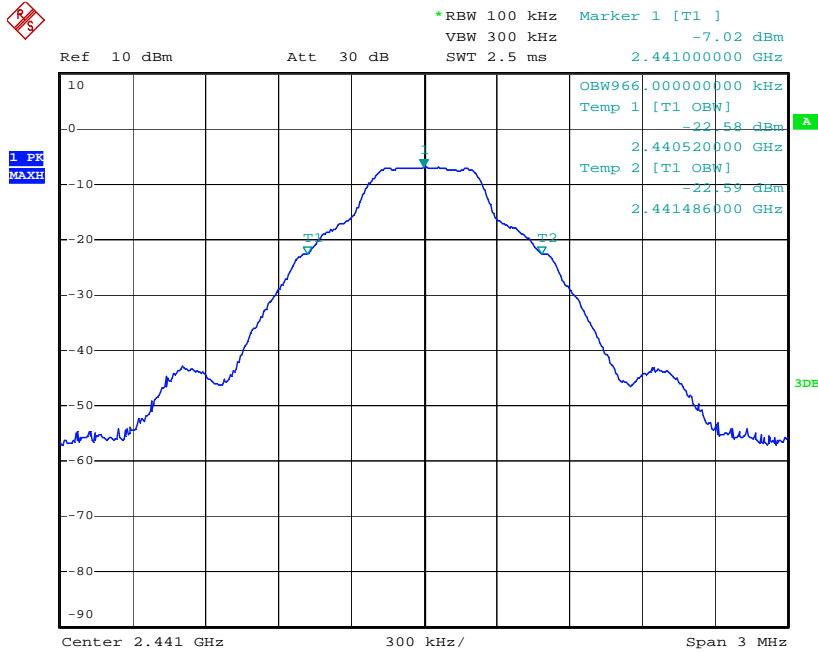
Date: 25.MAY.2012 11:02:34

High Channel

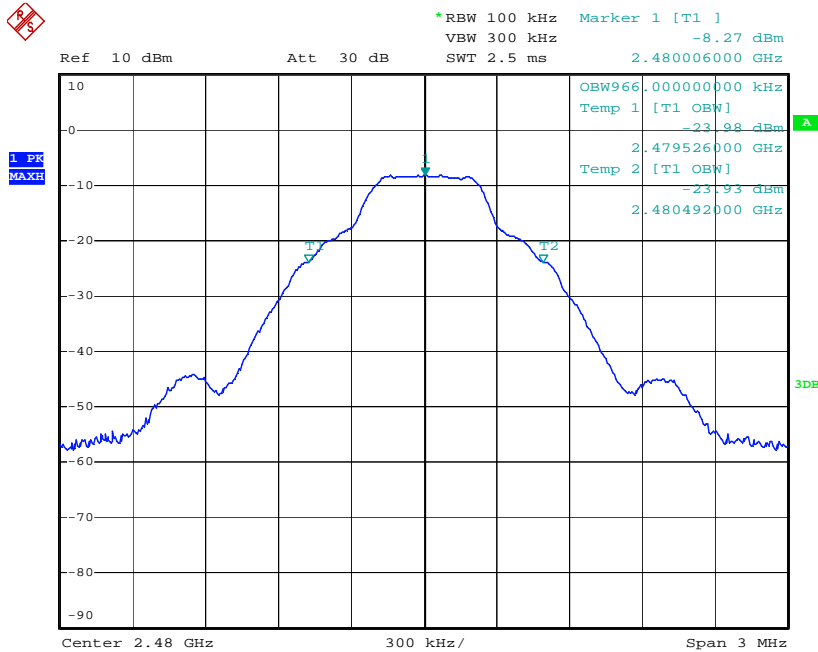

Date: 25.MAY.2012 11:04:38

Test Graph of 99% Bandwidth
Low Channel


Date: 25.MAY.2012 11:08:45

Middle Channel


Date: 25.MAY.2012 11:07:32

High Channel


Date: 25.MAY.2012 11:06:26

5.1.4 Conducted Spurious Emissions measured in 100 kHz Bandwidth

RESULT:**Passed**

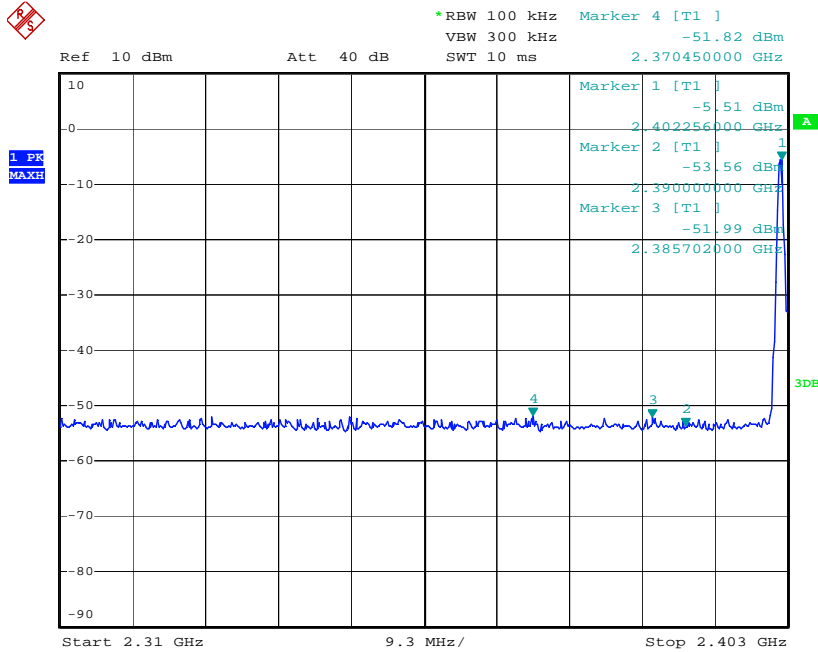
Date of testing	:	2012-05-25 to 2012-05-26
Test standard	:	FCC part 15.247(d) RSS-210 A8.5
Basic standard	:	ANSI C63.4: 2003
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A
Ambient temperature	:	25°C
Relative humidity	:	50%
Atmospheric pressure	:	101.0 kPa

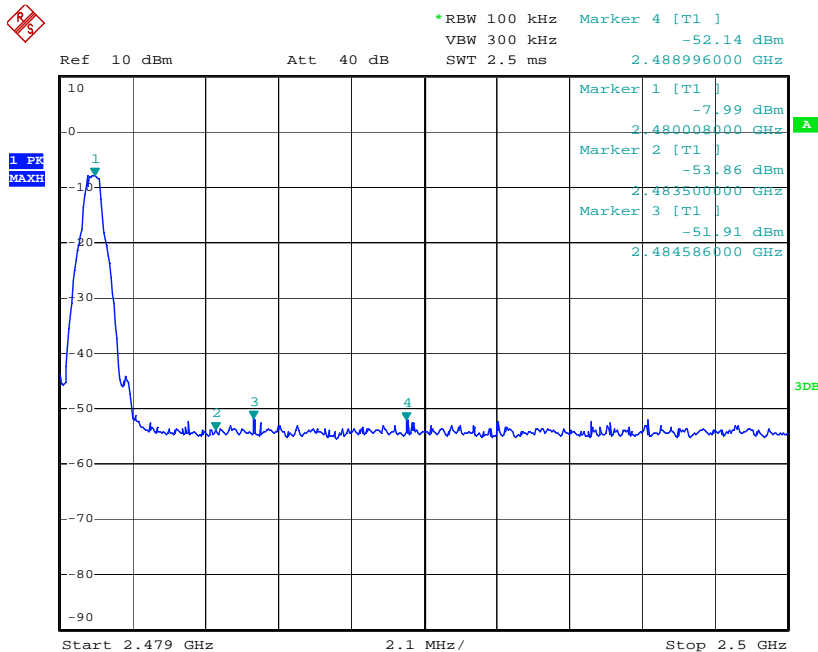
Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to following test graph, and compliance is achieved as well.

Test Graph of 100 kHz Bandwidth of Frequency Band Edge Low Channel



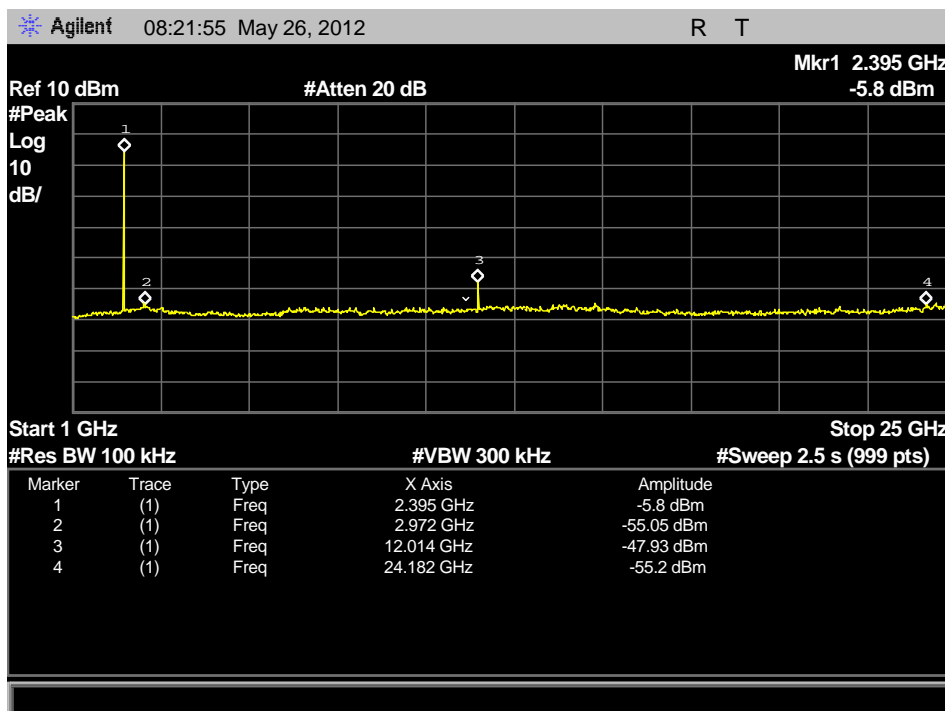
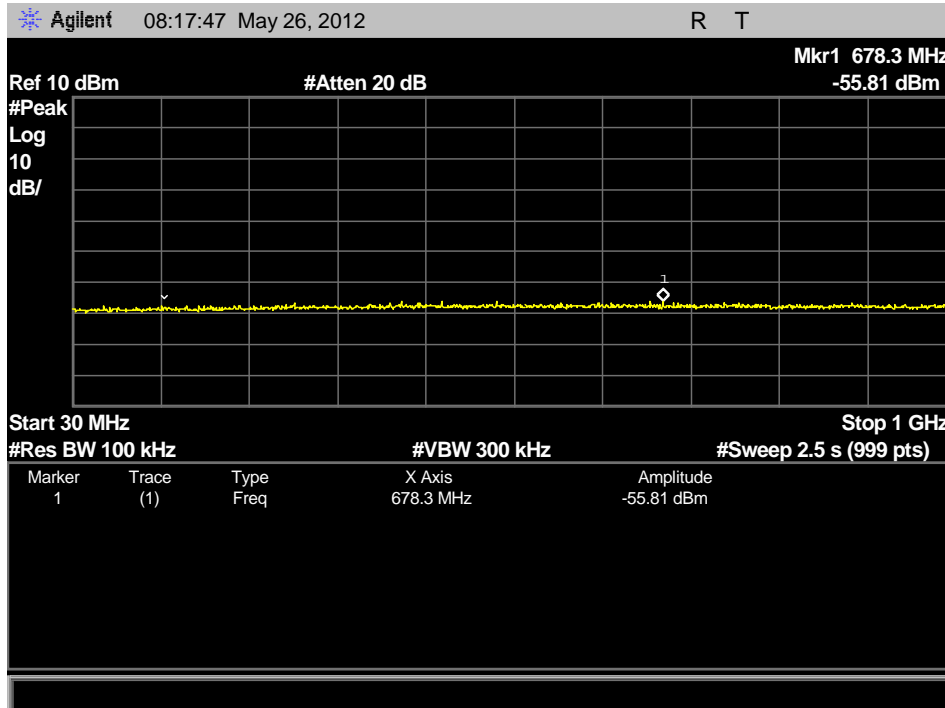
Date: 25.MAY.2012 11:13:49

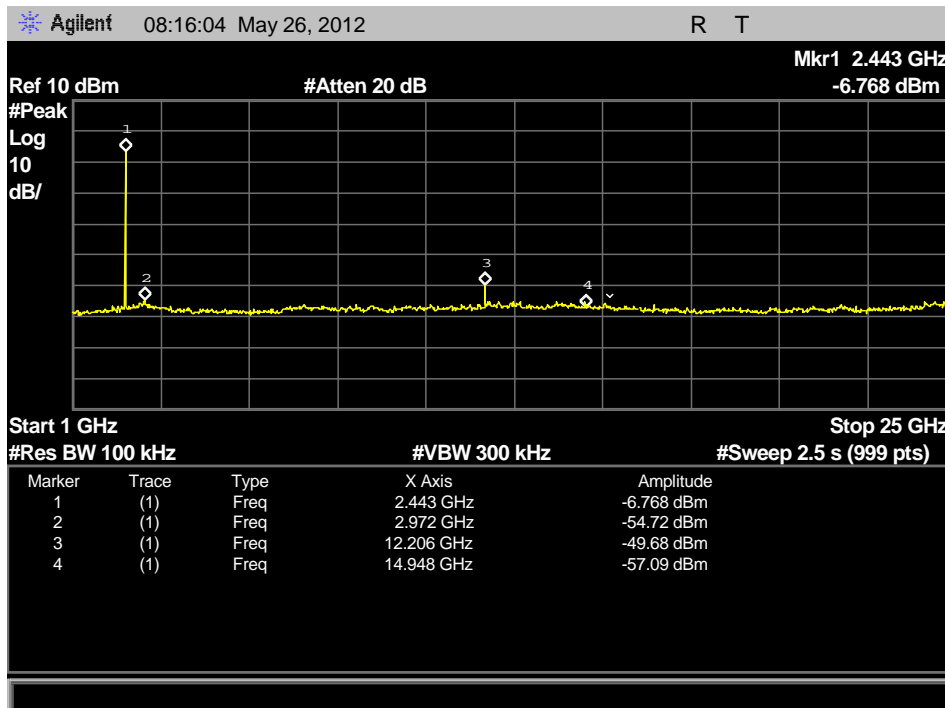
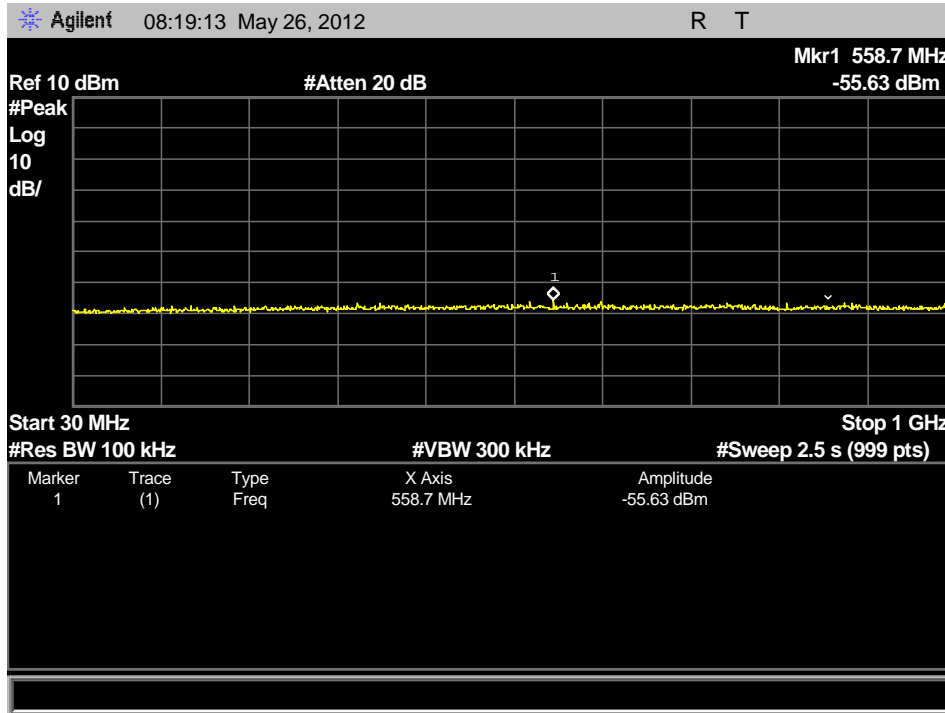
High Channel

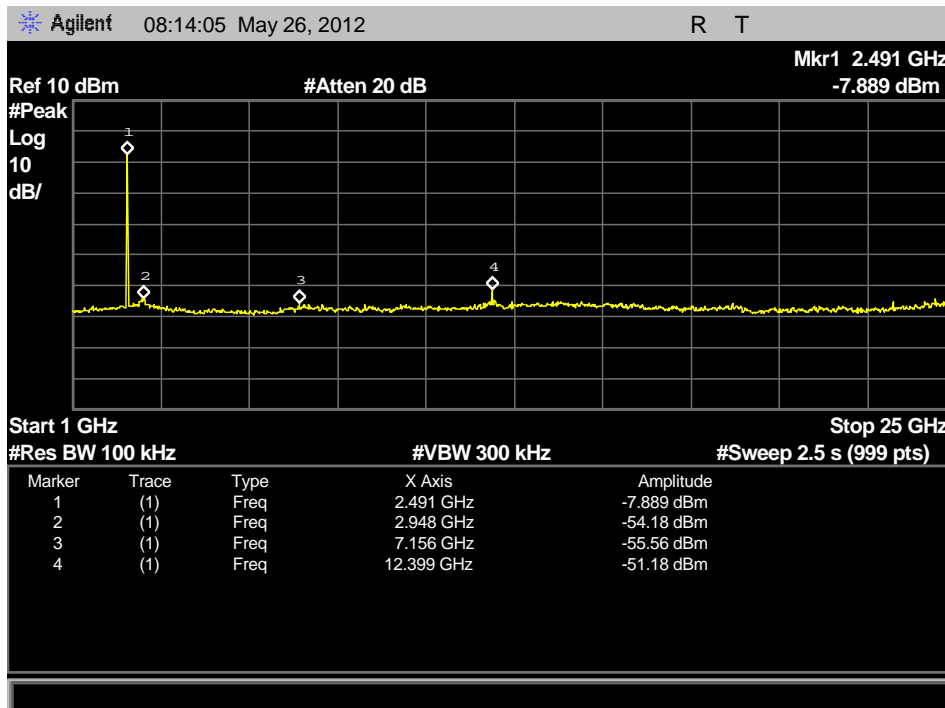
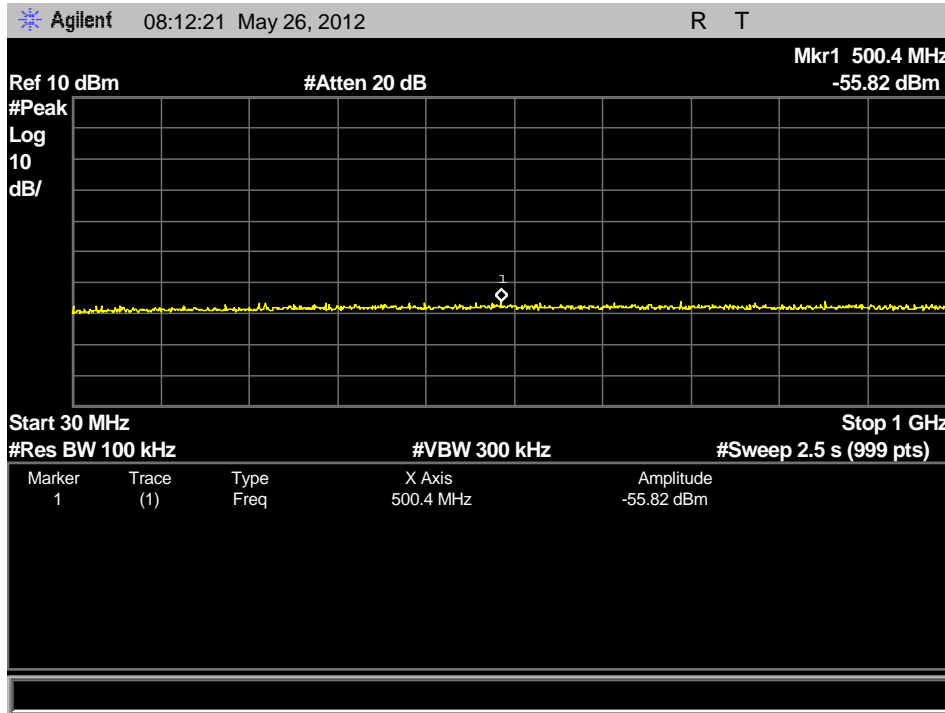


Date: 25.MAY.2012 11:16:33

Test Graph of Conducted spurious emissions measured in 100 kHz Bandwidth Low Channel



Middle Channel


High Channel


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5.1.5 Spurious Emissions

RESULT:**Passed**

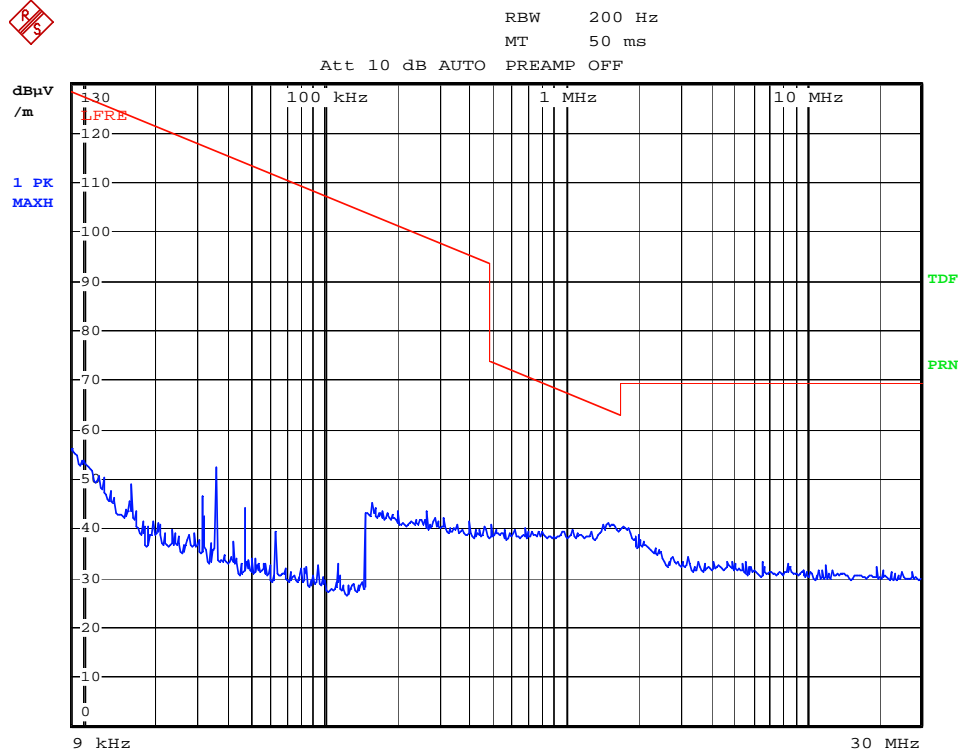
Date of testing : 2011-06-09 to 2011-06-14
Test standard : FCC part 15.247(d)
RSS-210 Clause 2.5
Basic standard : ANSI C63.4: 2003
Limits : Refer to 15.209(a)
RSS-210 Clause 2.5
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

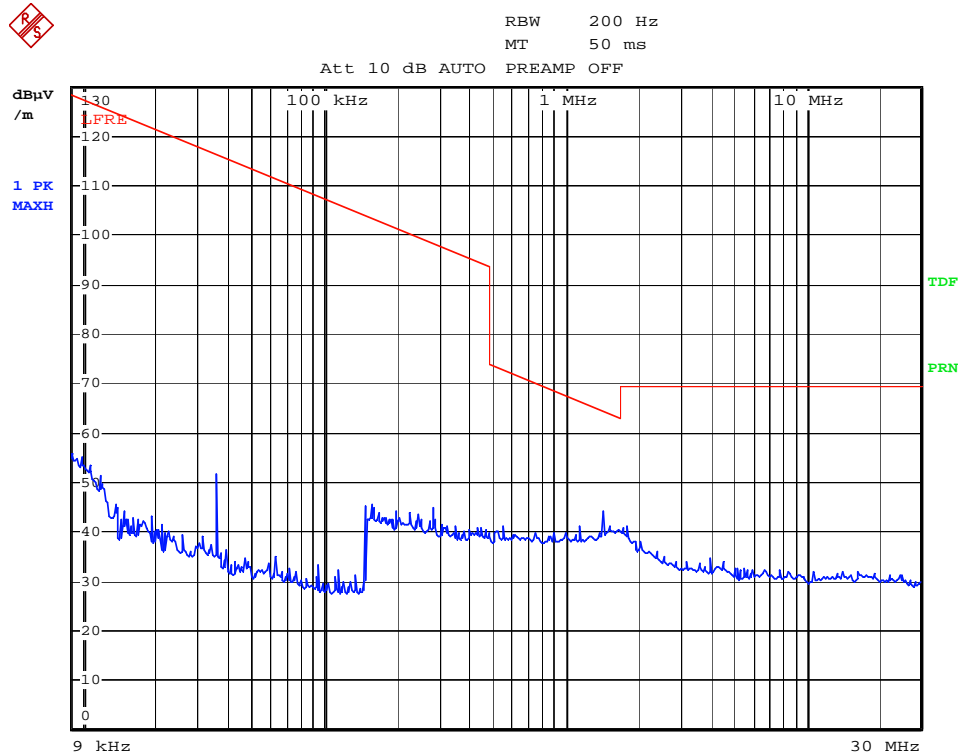
Test Channel : Low/ Middle/ High
Operation mode : A, B
Ambient temperature : 25°C
Relative humidity : 50%
Atmospheric pressure : 101.0 kPa

Refer to following test graph for test result.

Test Graph of Spurious emissions, Low channel, mode A



Date: 27.MAY.2012 08:20:43

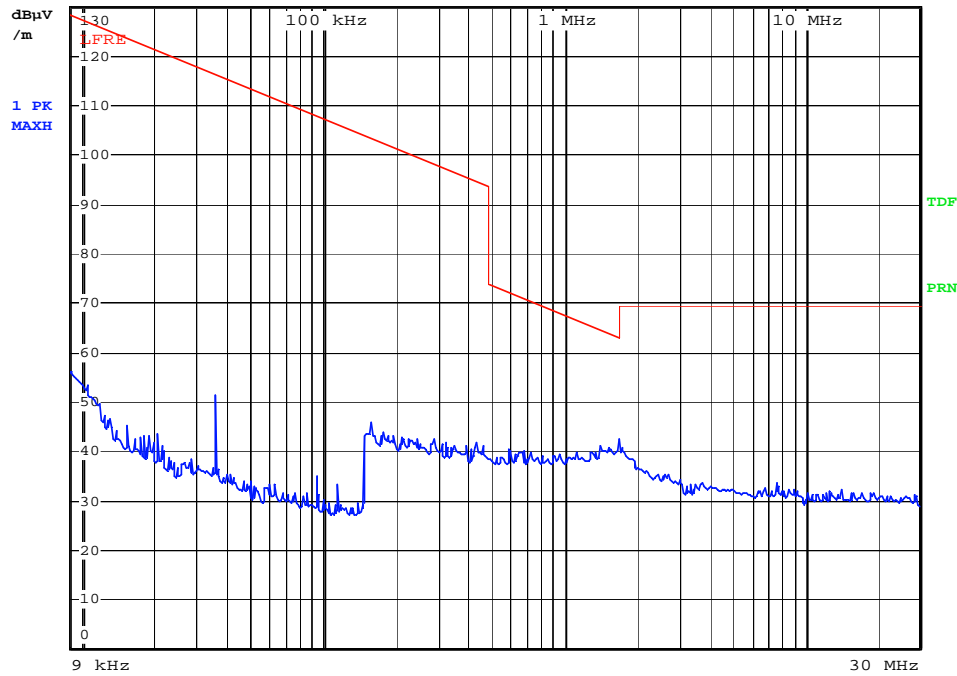


Date: 27.MAY.2012 08:22:40



RBW 200 Hz
MT 50 ms

Att 10 dB AUTO PREAMP OFF



Date: 27.MAY.2012 08:24:56


ACCURATE TECHNOLOGY CO., LTD.

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

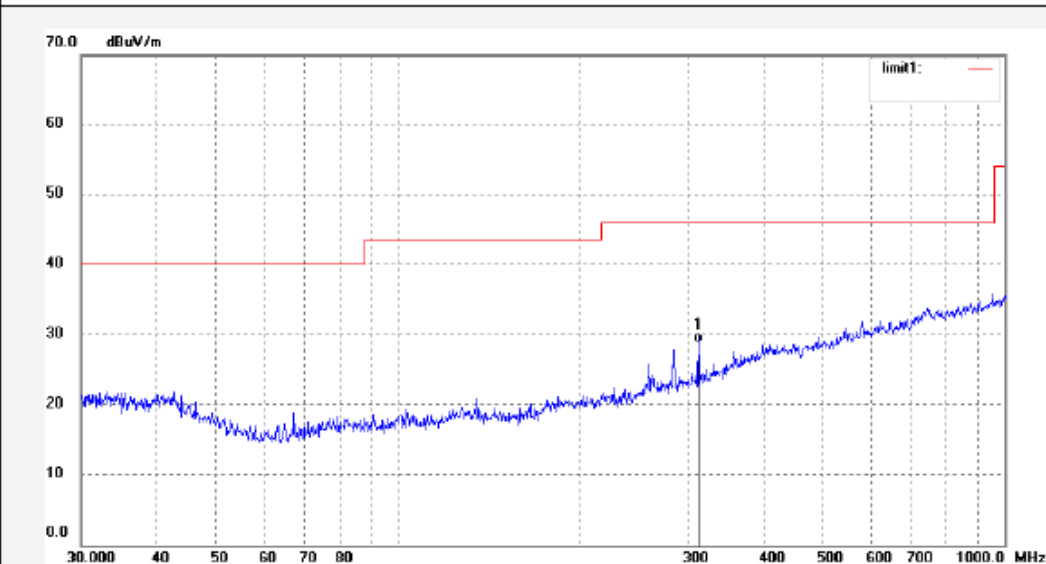
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8851	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 8/32/08
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	311.9969	9.67	19.10	28.77	46.00	-17.23	QP			


ACCURATE TECHNOLOGY CO., LTD.

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

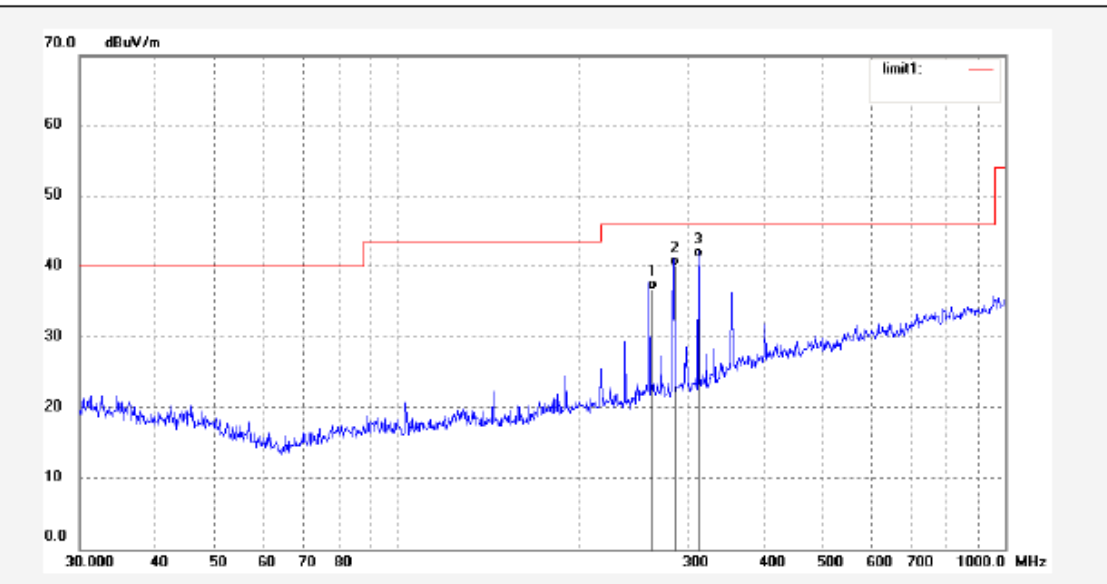
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8852	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 8/44/13
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



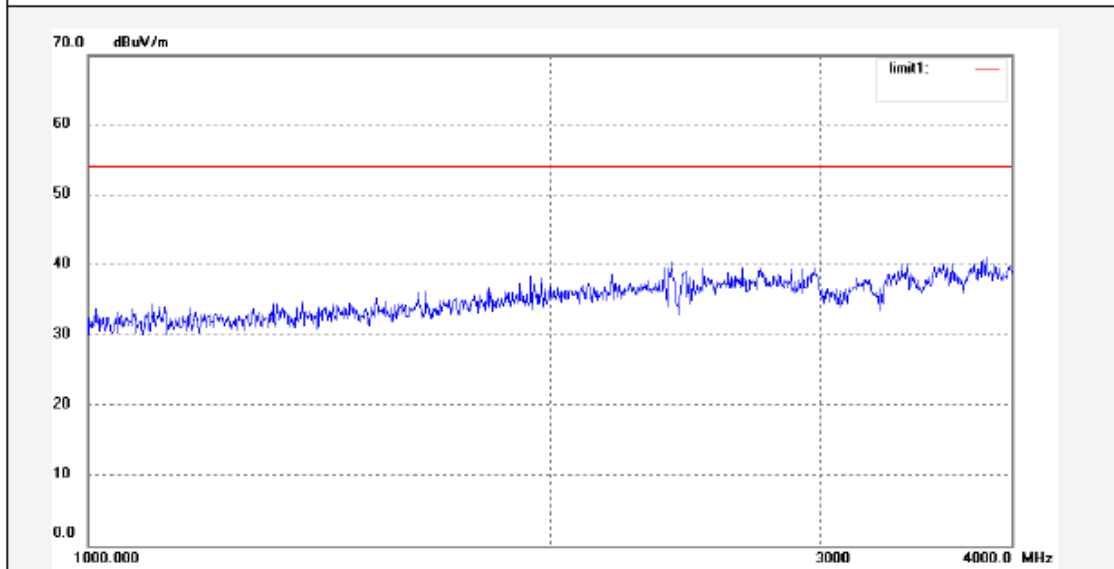
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	263.9998	18.04	18.66	36.70	46.00	-9.30	QP			
2	287.9962	21.48	18.55	40.03	46.00	-5.97	QP			
3	312.0024	22.17	19.10	41.27	46.00	-4.73	QP			


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 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: pei #8619	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/18/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 6/28/17
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



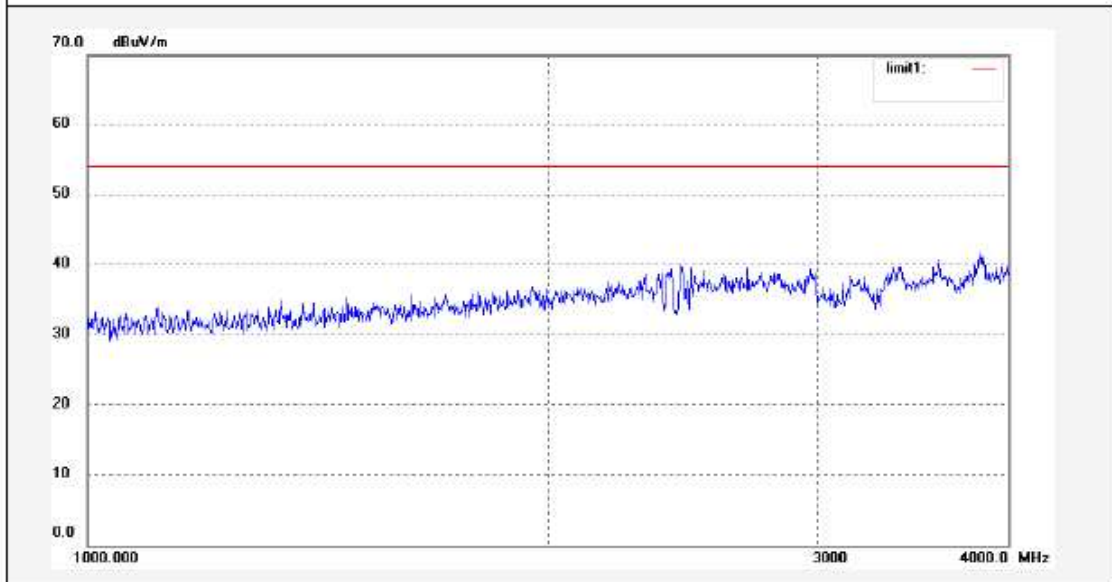
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 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: pei #8620	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/18/
Temp.(Cy/Hum.(%) 24 C / 48 %	Time: 6/34/54
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



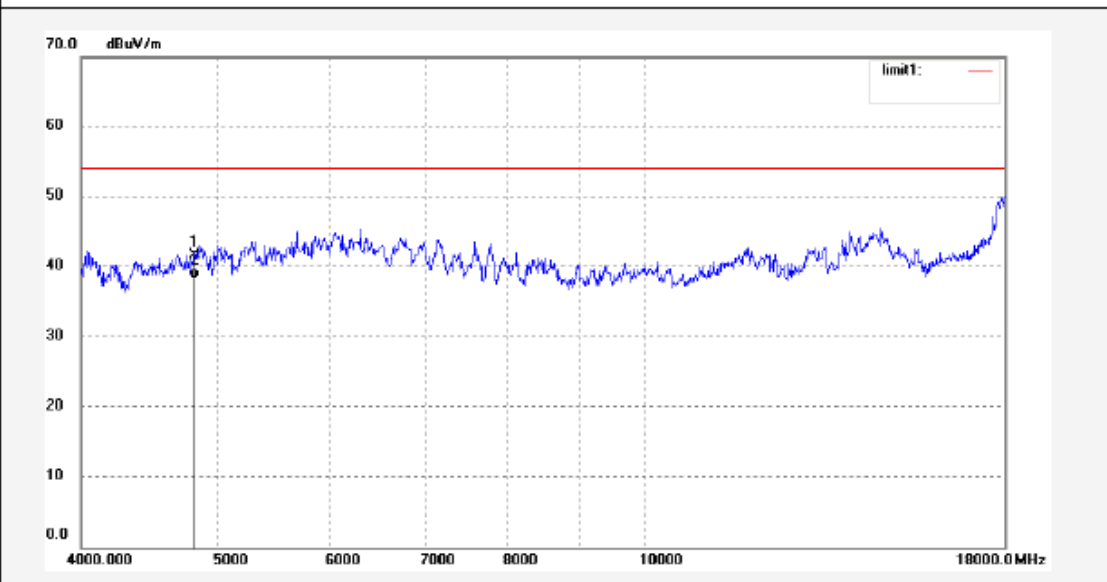
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 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: pei #8599	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2012/05/17
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 0:05:38
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4803.957	41.80	-0.30	41.50	54.00	-12.50	peak			
2	4803.957	38.52	-0.30	38.22	54.00	-15.78	AVG			


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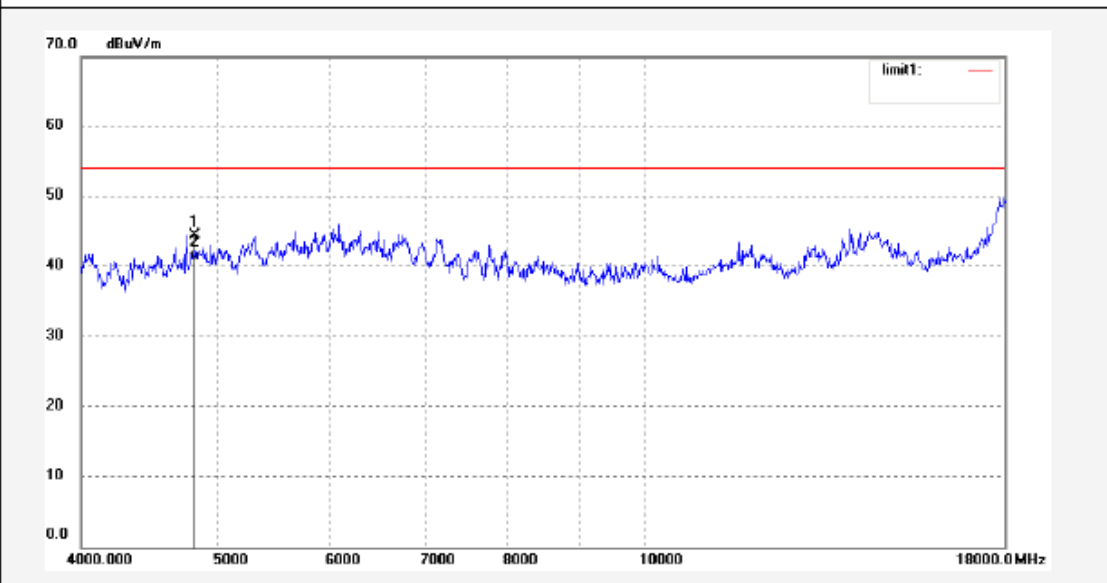
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8601	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2012/05/17
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 0:17:36
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: RF-ICAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4803.912	44.63	-0.30	44.33	54.00	-9.67	peak			
2	4803.912	41.20	-0.30	40.90	54.00	-13.10	AVG			


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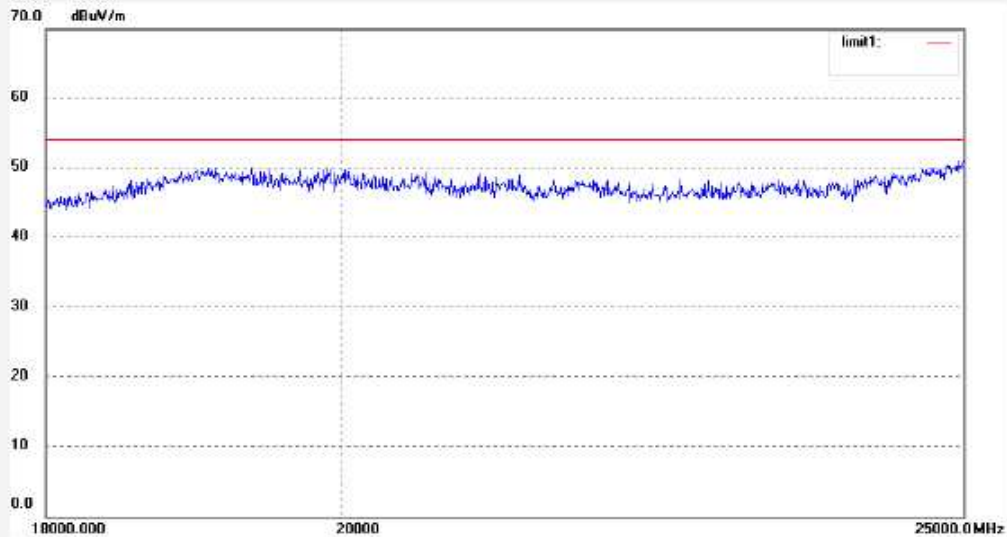
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8629	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/18/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 7/50/16
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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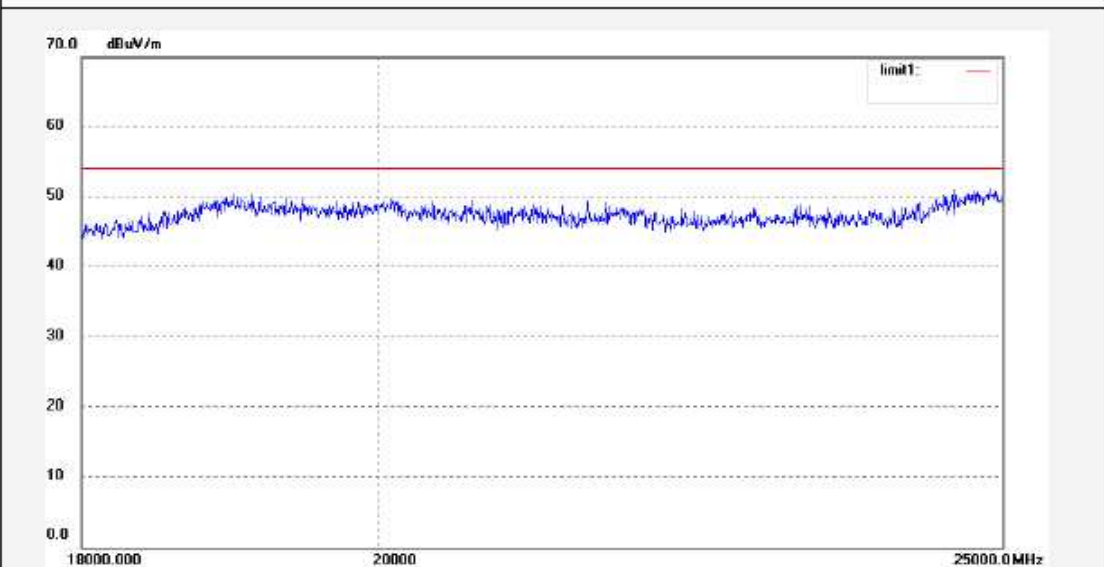
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

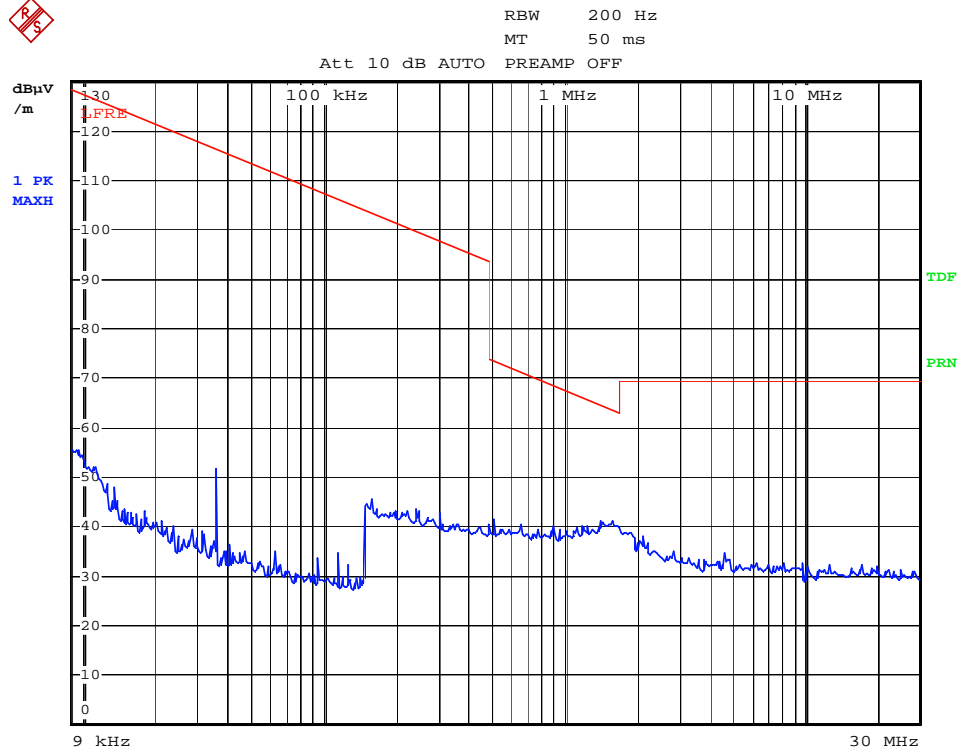
Job No.: pei #8630	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/18/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 7/58/24
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:

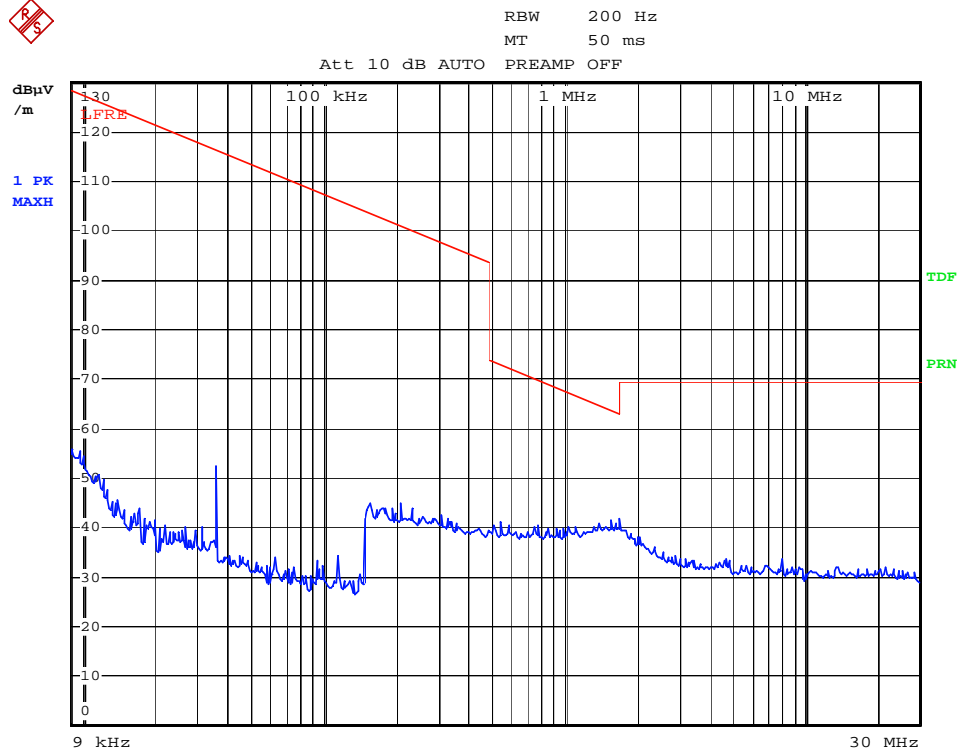


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Test Graph of Spurious emissions, Middle channel, mode A



Date: 27.MAY.2012 08:26:54



Date: 27.MAY.2012 08:28:52

Produkte
Products

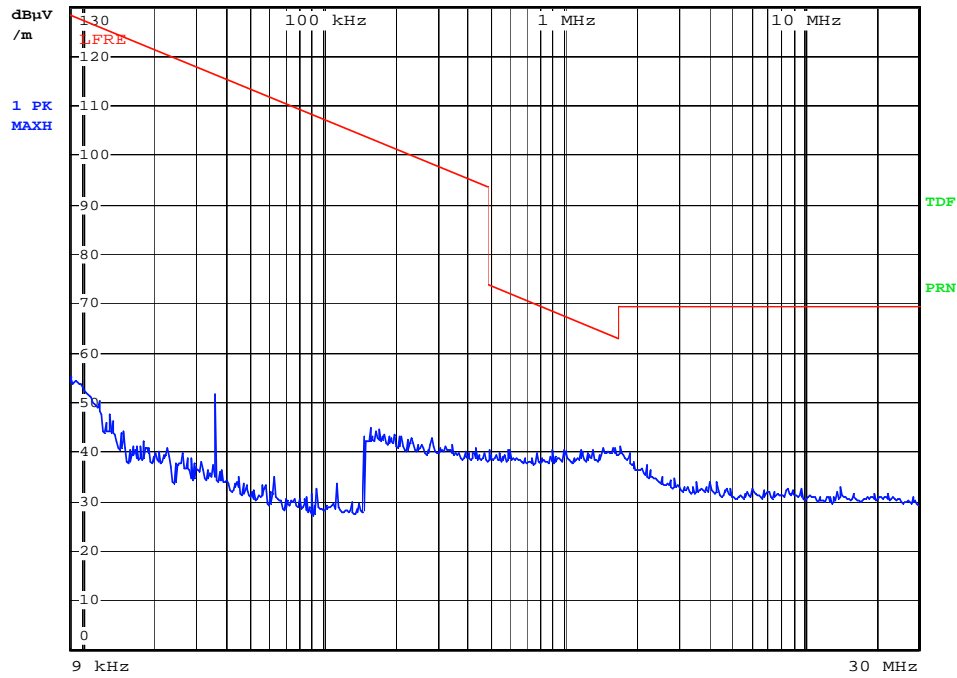
Prüfbericht - Nr.: 17025702 001
Test Report No.

Seite 37 von 100
Page 37 of 100



RBW 200 Hz
MT 50 ms

Att 10 dB AUTO PREAMP OFF



Date: 27.MAY.2012 08:30:48


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 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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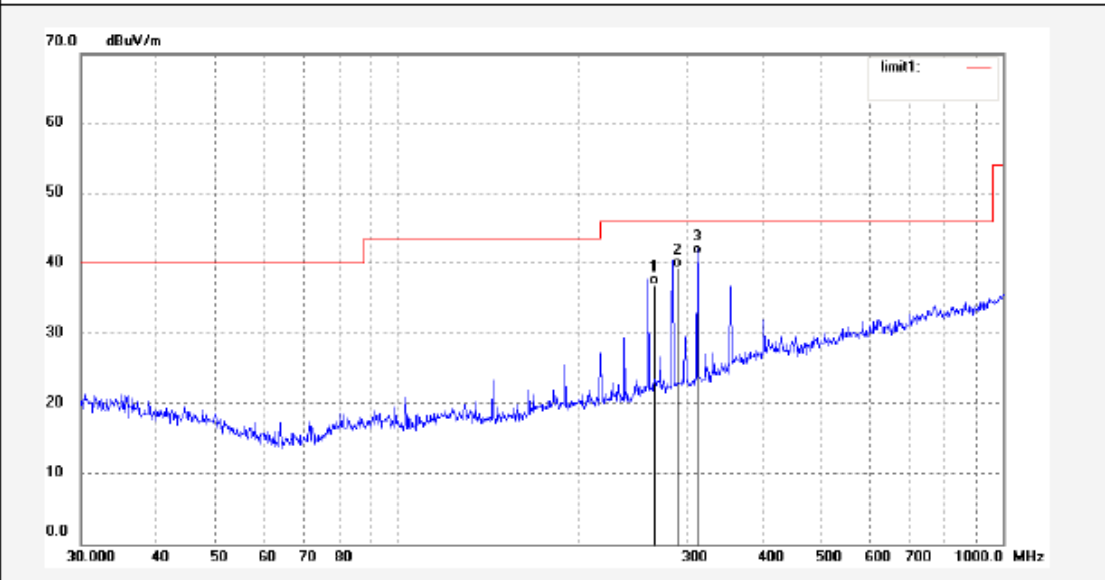
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8853	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 8/58/52
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: RF-ICAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	264.0020	18.11	18.66	36.77	46.00	-9.23	QP			
2	287.9963	20.81	18.55	39.36	46.00	-6.64	QP			
3	312.0070	22.04	19.10	41.14	46.00	-4.86	QP			


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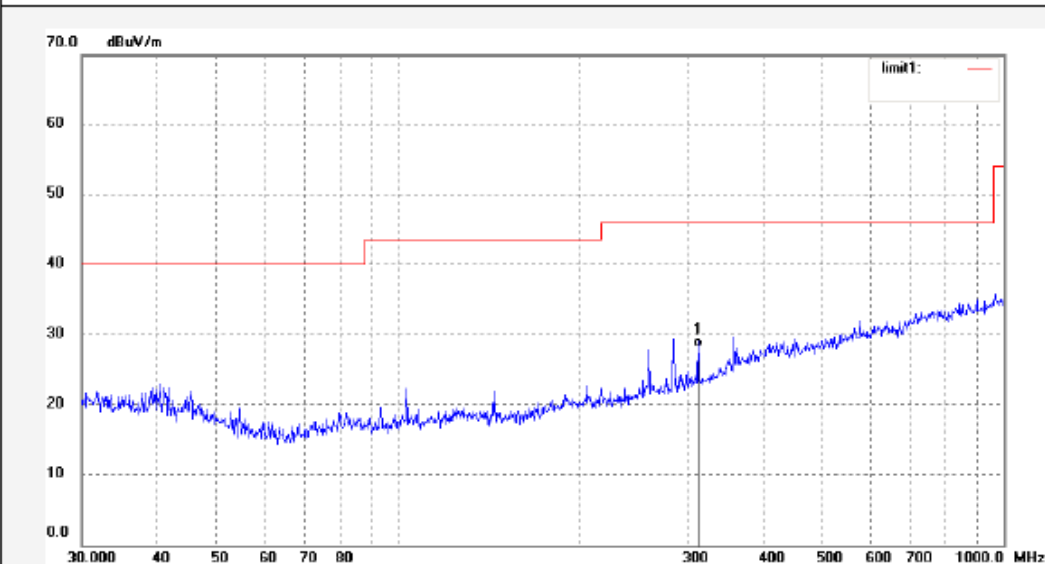
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8854	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 9/09/41
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	311.9994	8.98	19.10	28.08	46.00	-17.92	QP			

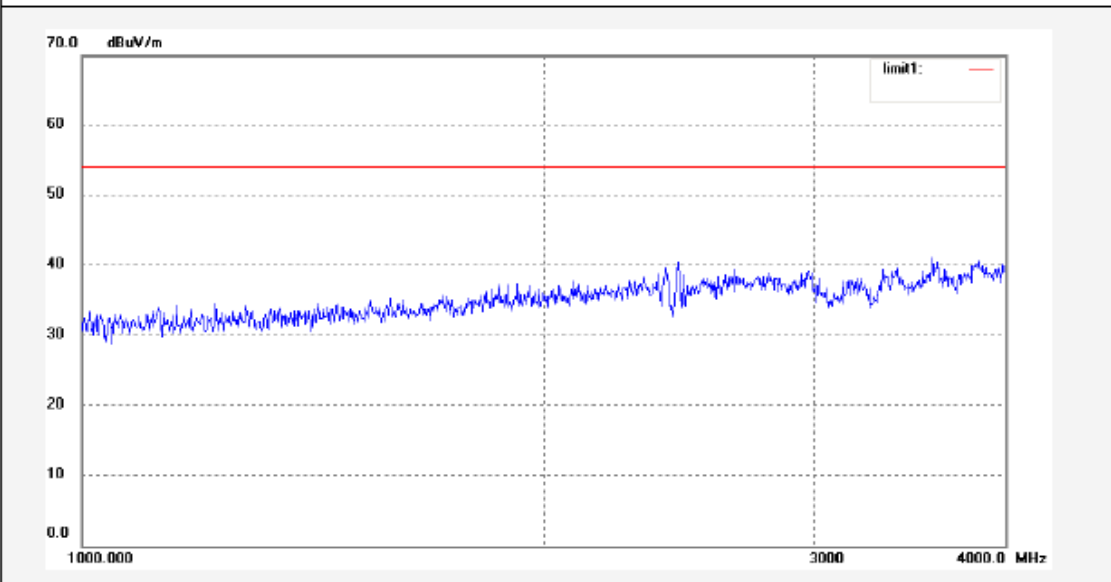

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 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: pei #8621	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/18/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 6/41/31
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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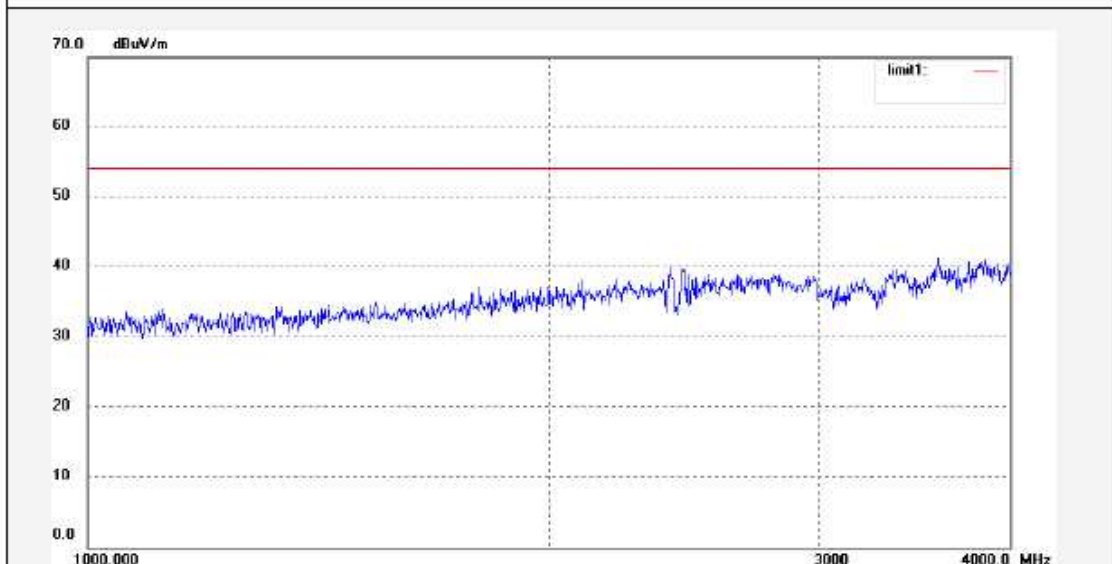
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8622	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/18/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 6/49/06
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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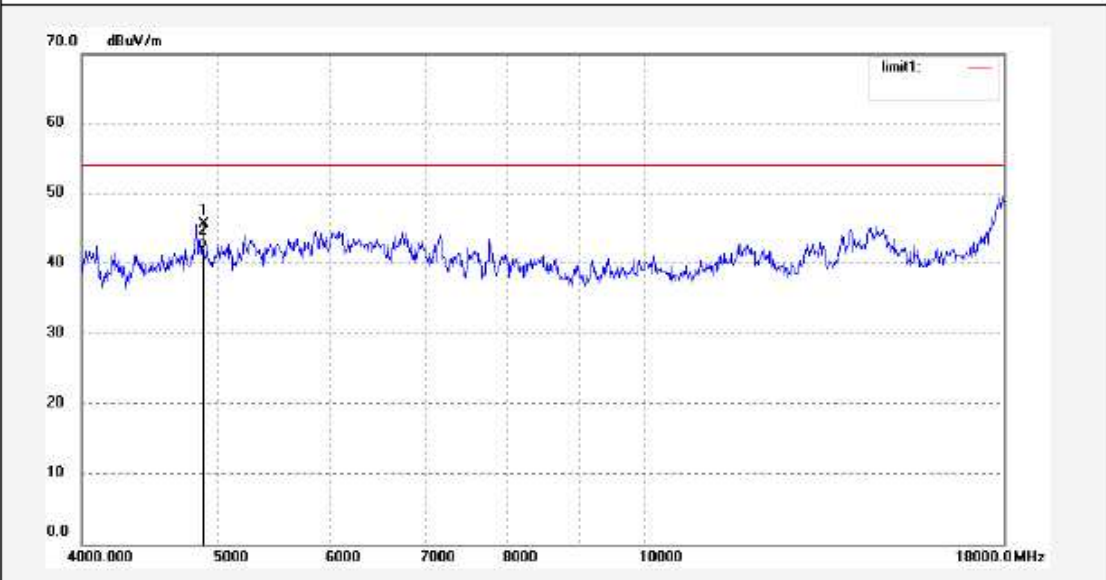
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8602	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2012/05/17
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 0:26:27
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: RF-ICAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4882.088	45.38	0.14	45.52	54.00	-8.48	peak			
2	4882.088	41.96	0.14	42.10	54.00	-11.90	AVG			


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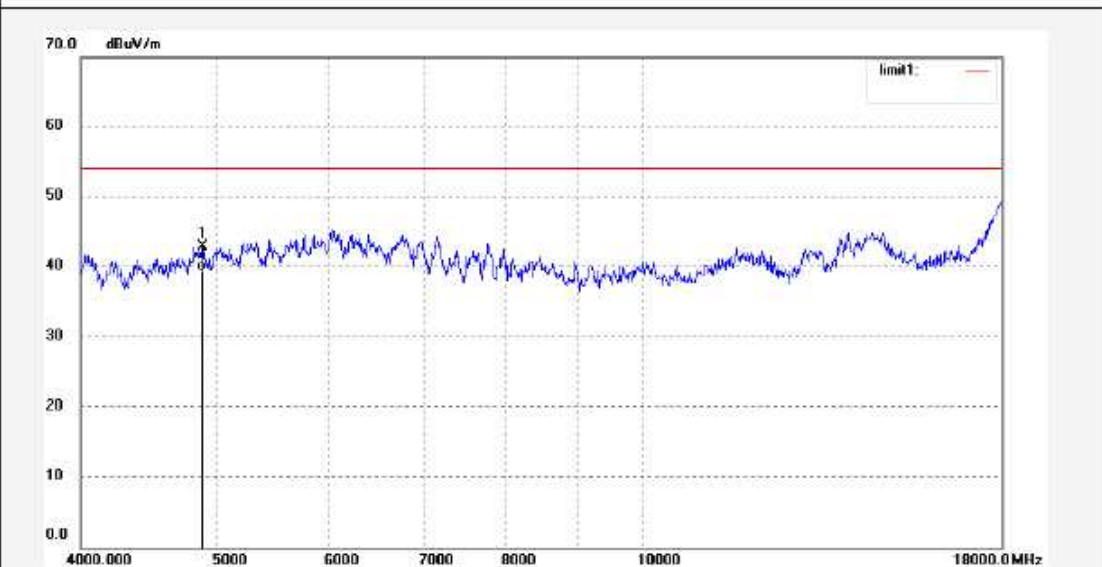
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8603	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2012/05/17
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 0:38:58
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



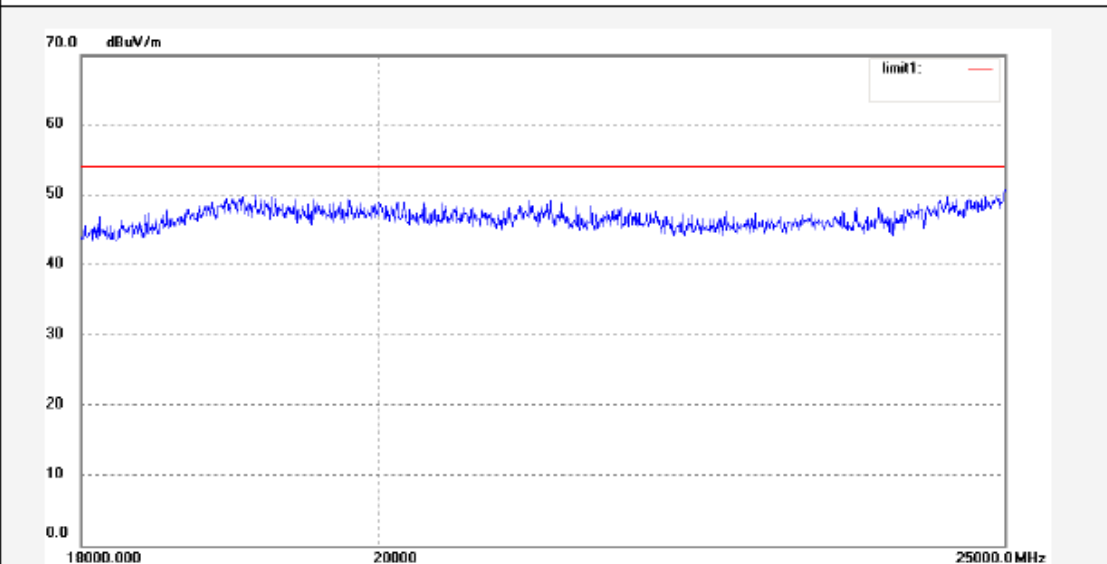
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1	4882.020	42.62	0.14	42.76	54.00	-11.24	peak			
2	4882.020	39.14	0.14	39.28	54.00	-14.72	AVG			


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 Site: 966 chamber
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 Fax:+86-0755-26503396

Job No.: pei #8631	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/18/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 8/06/31
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

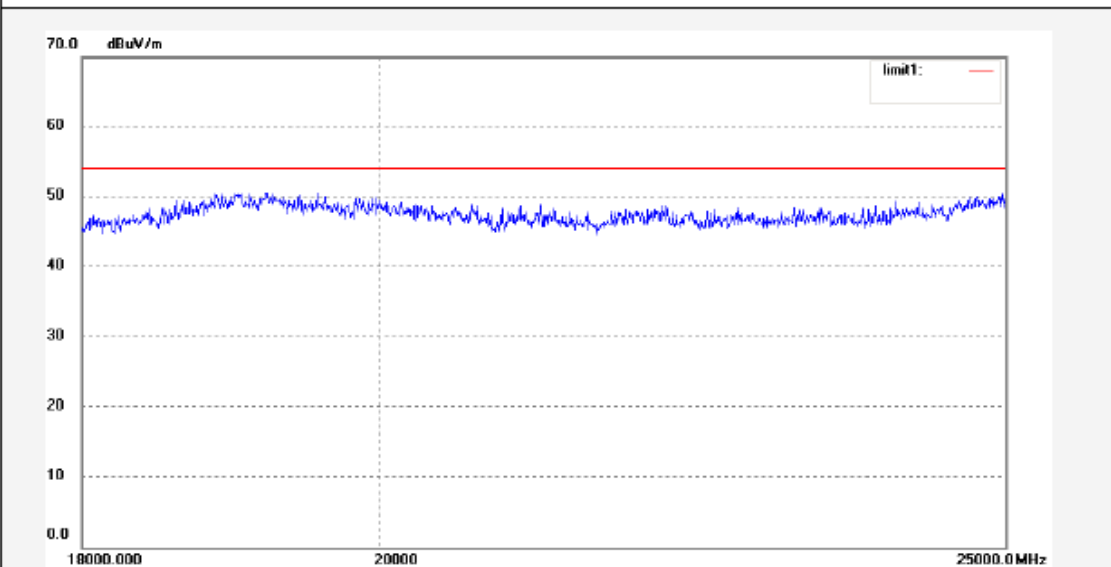
Site: 966 chamber

Tel:+86-0755-26503290

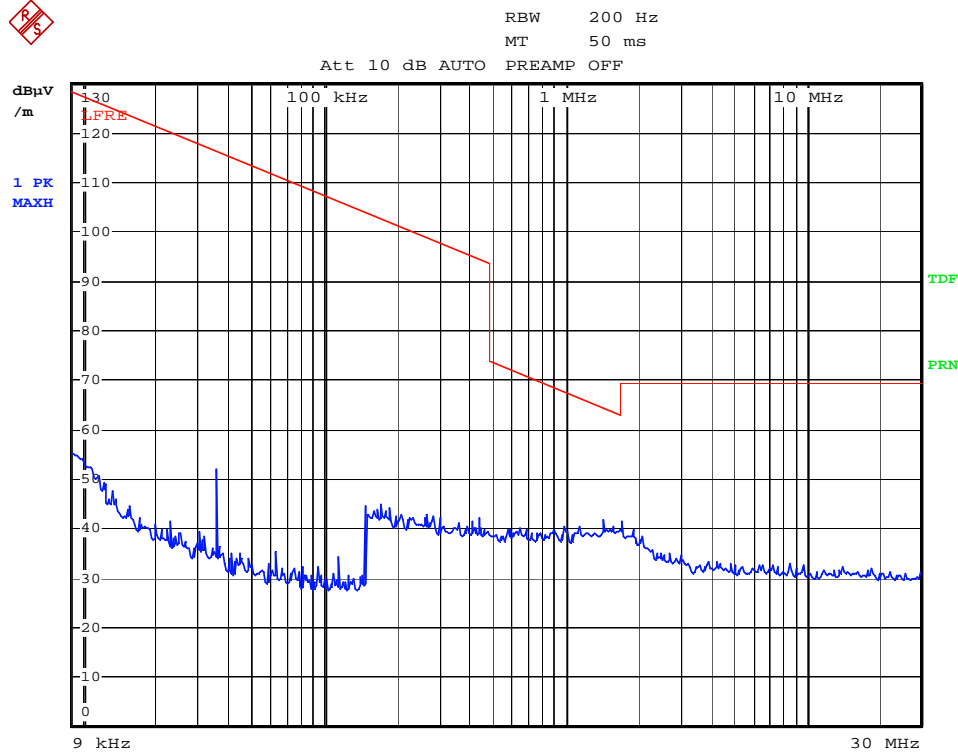
Fax:+86-0755-26503396

Job No.: pei #8632	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/18/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 8/13/49
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

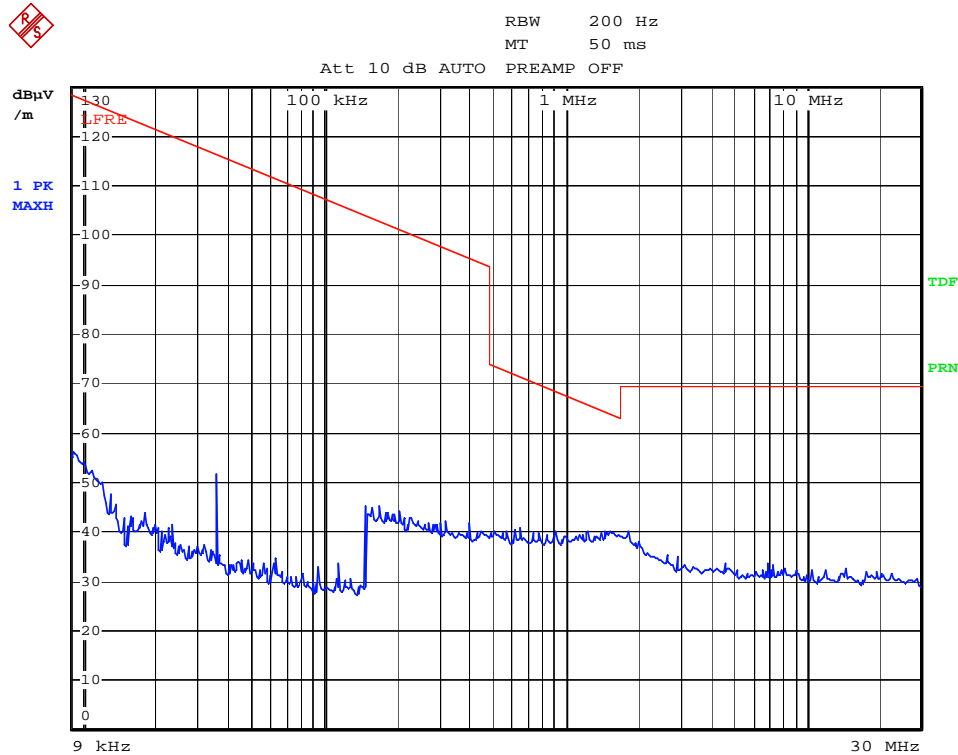
Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Test Graph of Spurious emissions, High channel, mode A


Date: 27.MAY.2012 08:32:49

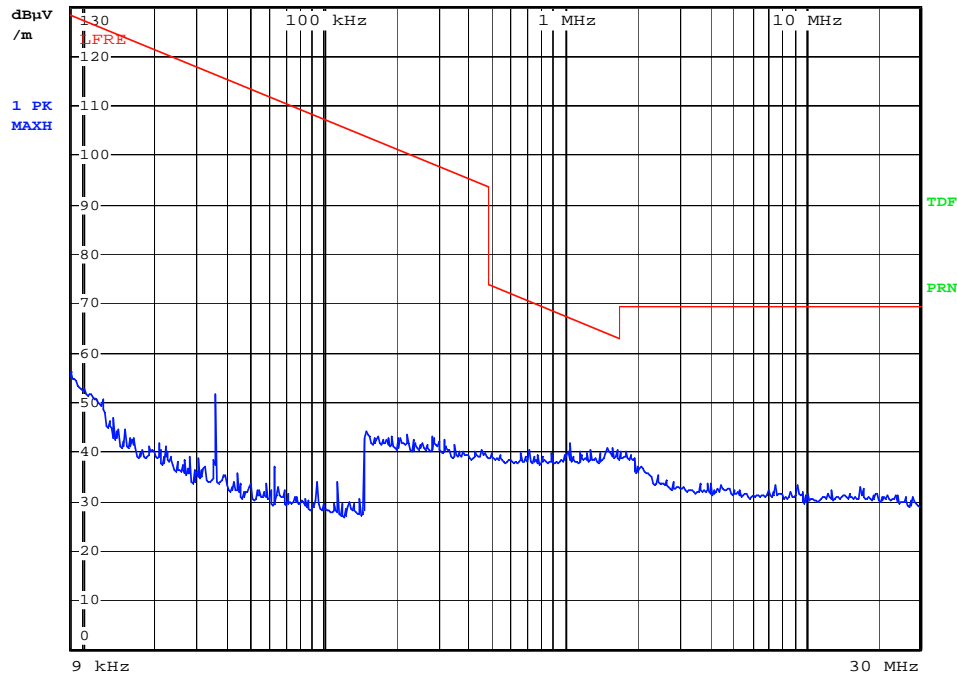


Date: 27.MAY.2012 08:34:47



RBW 200 Hz
MT 50 ms

Att 10 dB AUTO PREAMP OFF



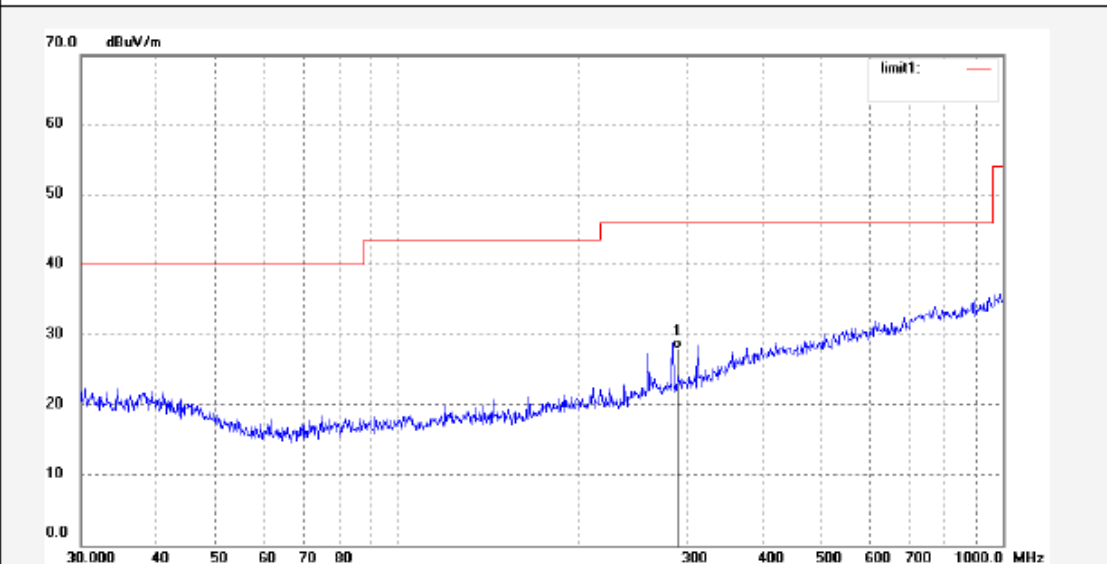
Date: 27.MAY.2012 08:36:51


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

 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: pei #8855	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 9/17/29
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	288.0060	9.32	18.55	27.87	46.00	-18.13	QP			


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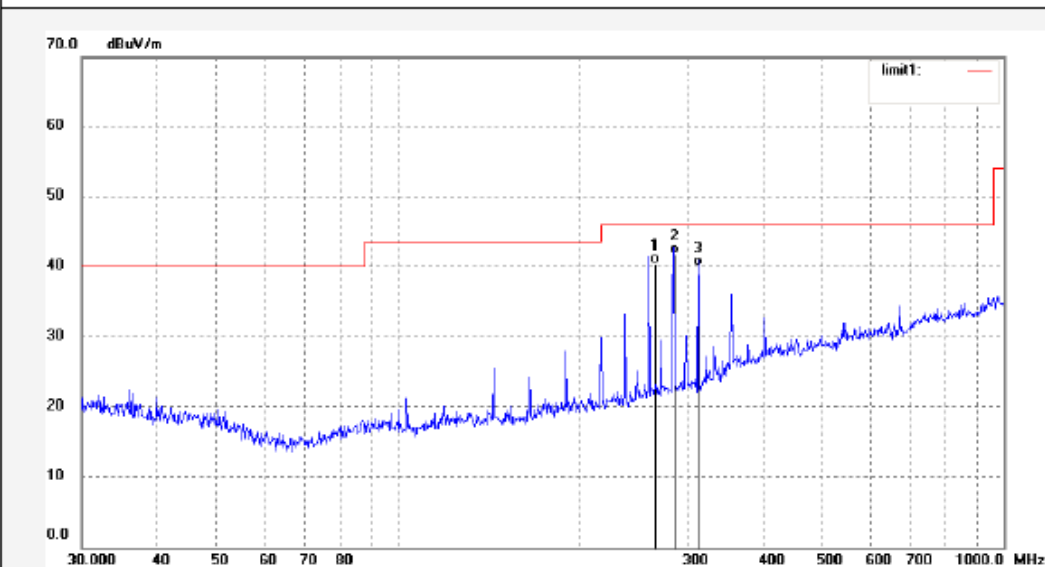
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8856	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 9/26/02
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	263.9946	21.74	18.66	40.40	46.00	-5.60	QP			
2	288.0025	23.18	18.55	41.73	46.00	-4.27	QP			
3	312.0050	20.83	19.10	39.93	46.00	-6.07	QP			


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Site: 966 chamber

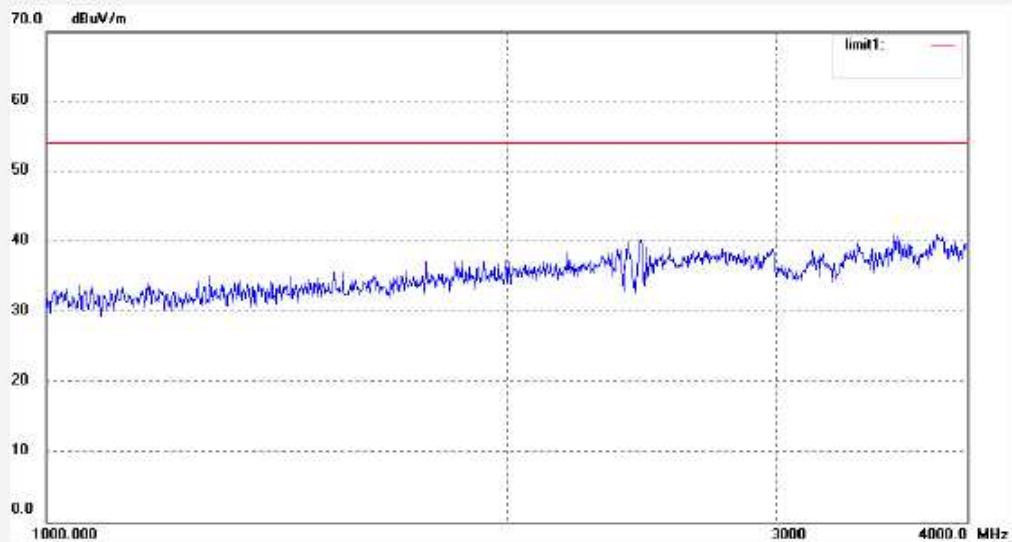
Tel:+86-0755-26503290

Fax:+86-0755-26503396

 Job No.: pei #8623
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 24 C / 48 %
 EUT: Capsule Keyboard Case
 Mode: TX 2480MHz
 Model: RF-iCAP23
 Manufacturer: Primax

 Polarization: Horizontal
 Power Source: DC 3.7V
 Date: 12/05/18/
 Time: 6/55/42
 Engineer Signature: PEI
 Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark


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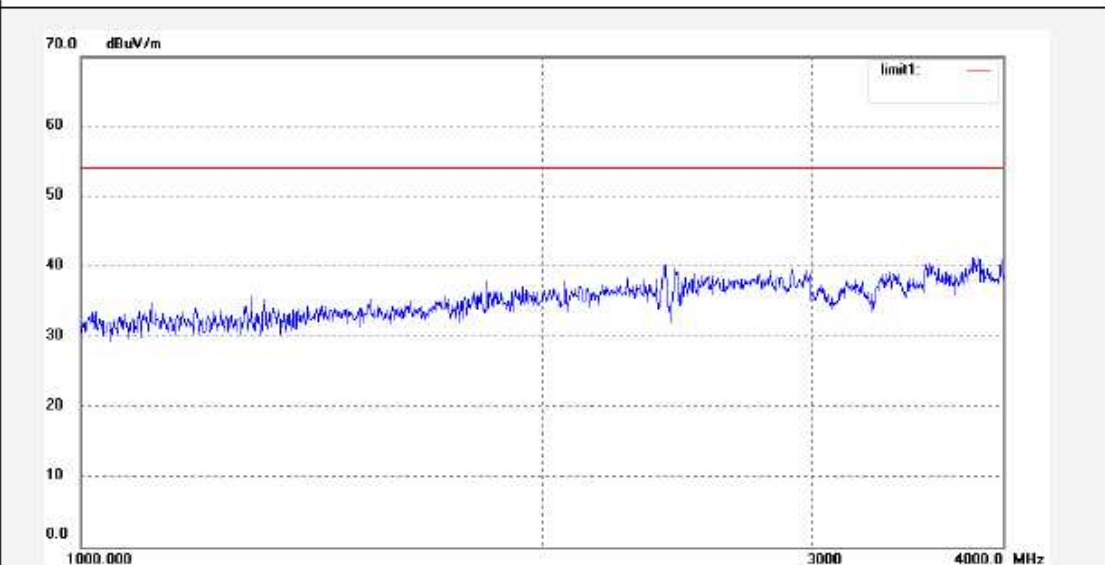
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8624	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/18/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 7/02/06
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: RF-ICAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	-------------	------------------	-------------	-----------------	----------------	-------------	----------	-------------	---------------	--------


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

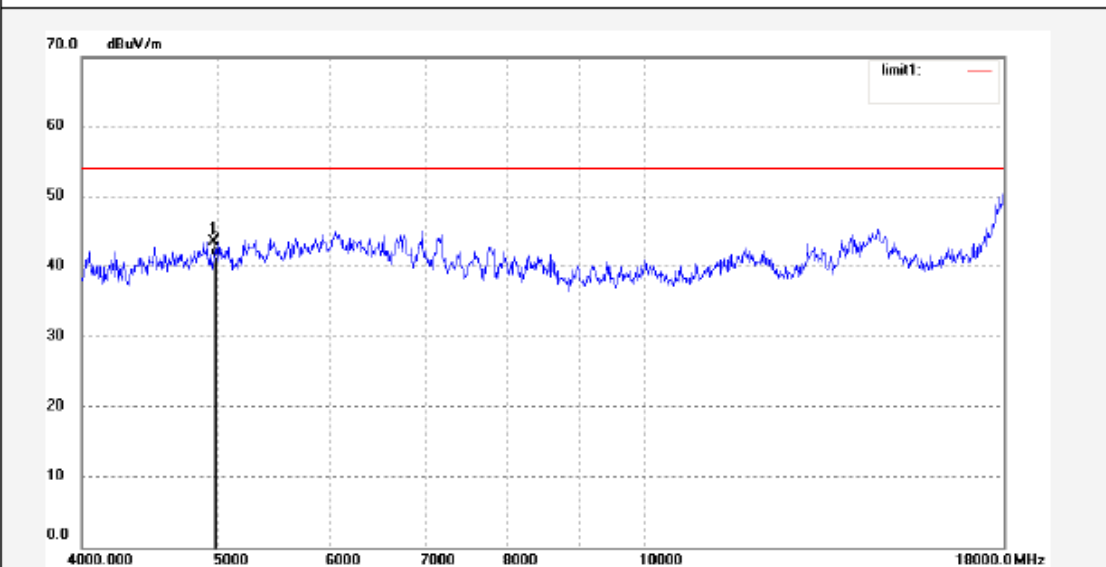
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8607	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2012/05/17
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 0:49:24
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4960.039	42.99	0.52	43.51	54.00	-10.49	peak			
2	4960.039	40.88	0.52	41.40	54.00	-12.60	AVG			


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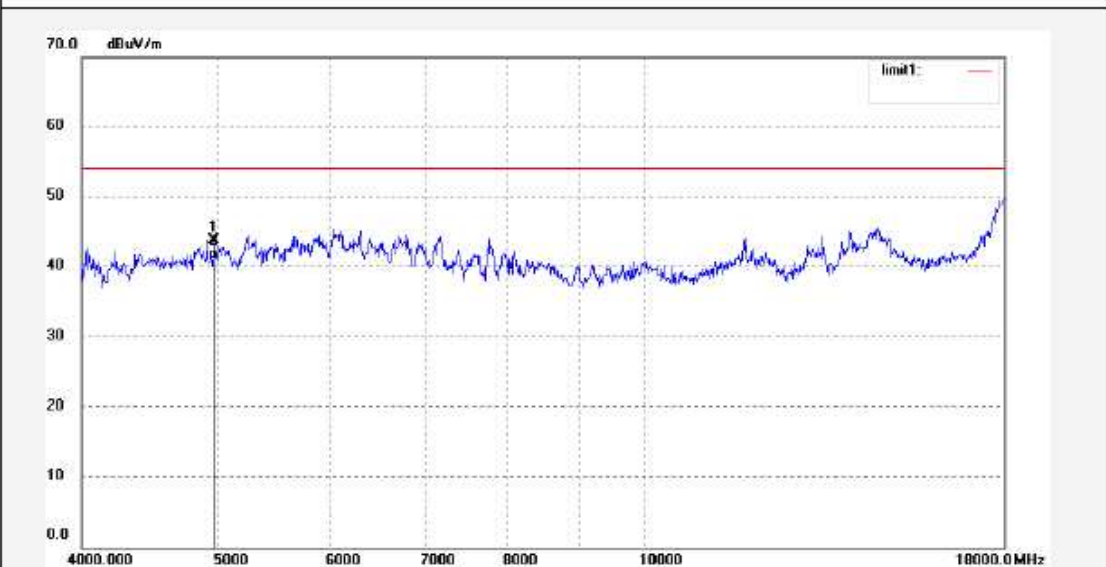
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8608	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2012/05/17
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 0:58:49
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4960.060	43.15	0.52	43.67	54.00	-10.33	peak			
2	4960.060	40.58	0.52	41.10	54.00	-12.90	AVG			


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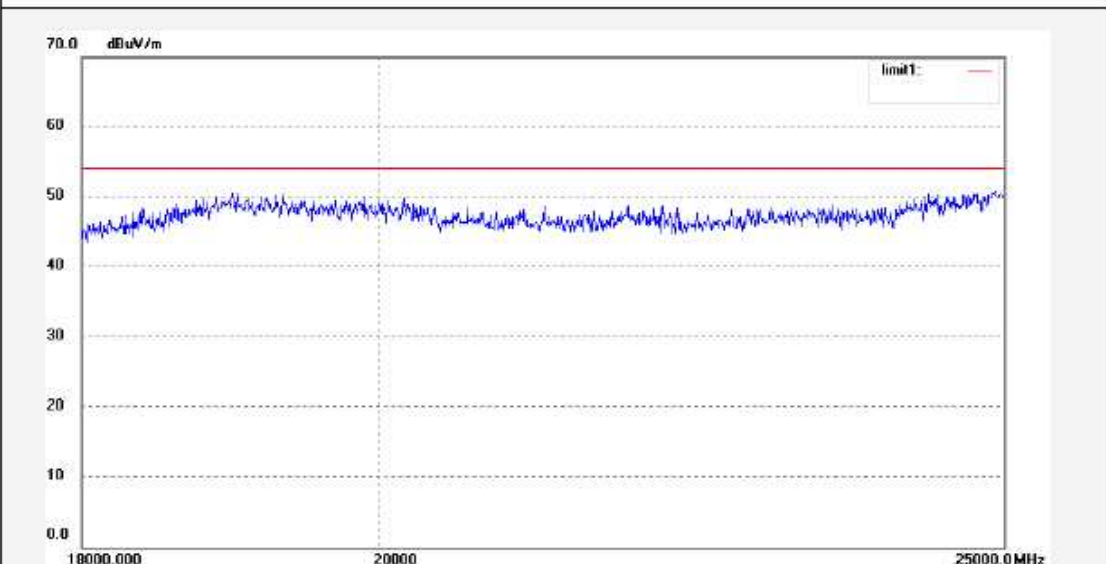
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8633	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/18/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 8/22/57
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

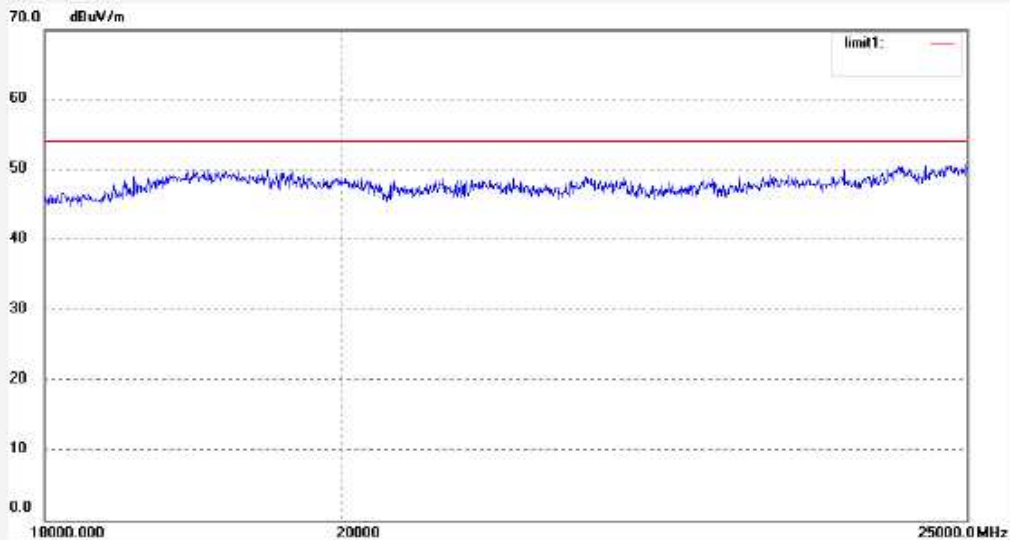
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

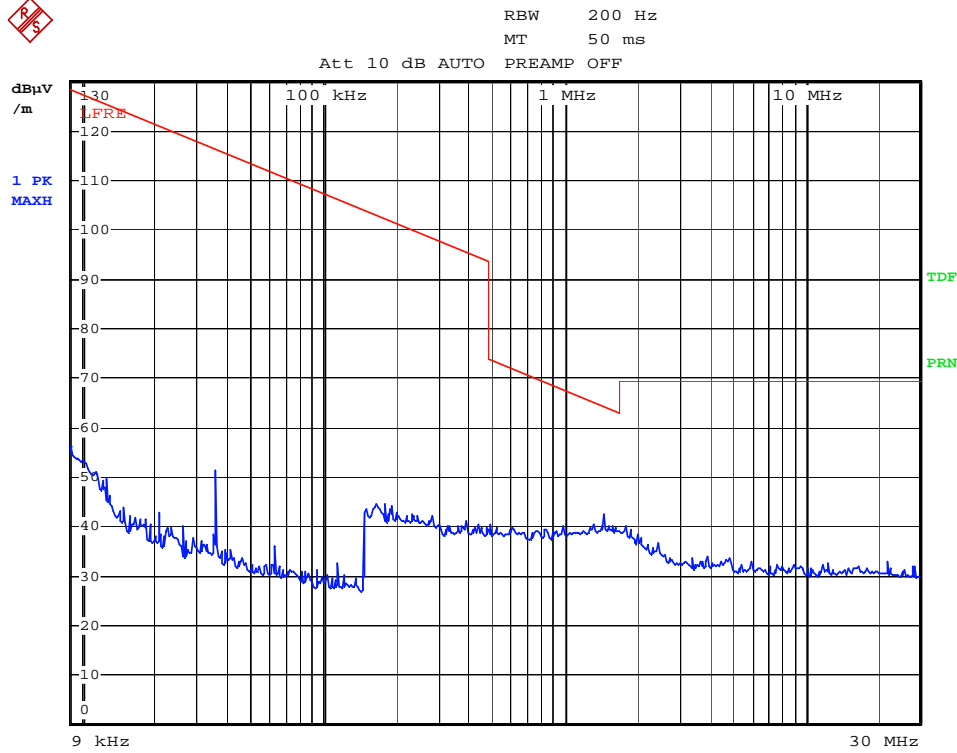
Job No.: pei #8634	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/18/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 8/27/45
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:

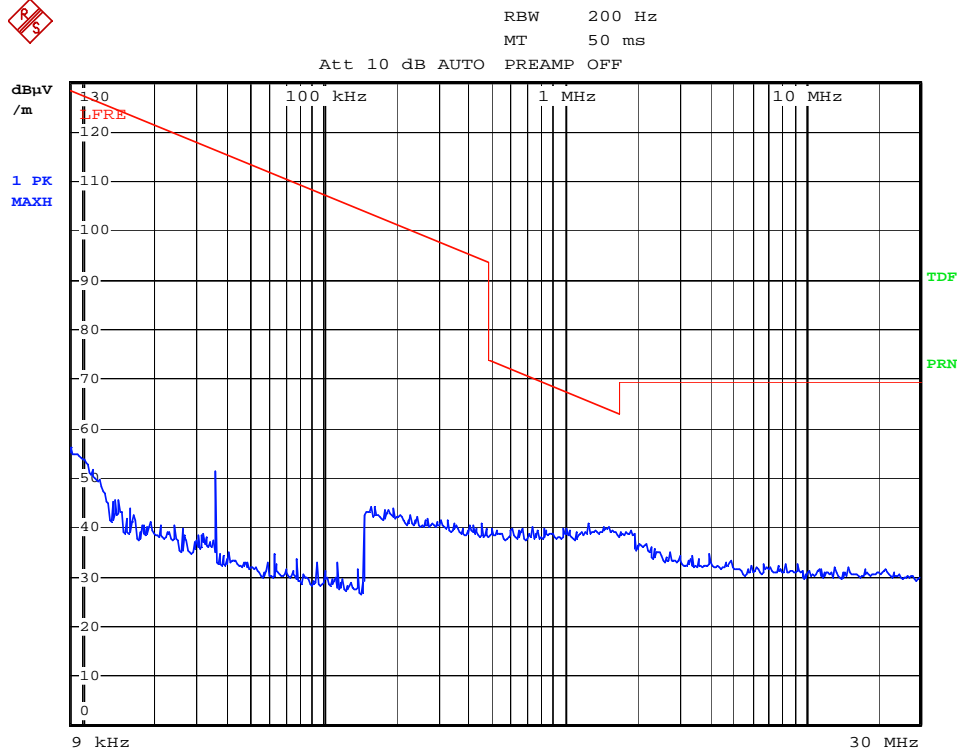


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Test Graph of Spurious emissions, Low channel, mode B



Date: 27.MAY.2012 08:38:48

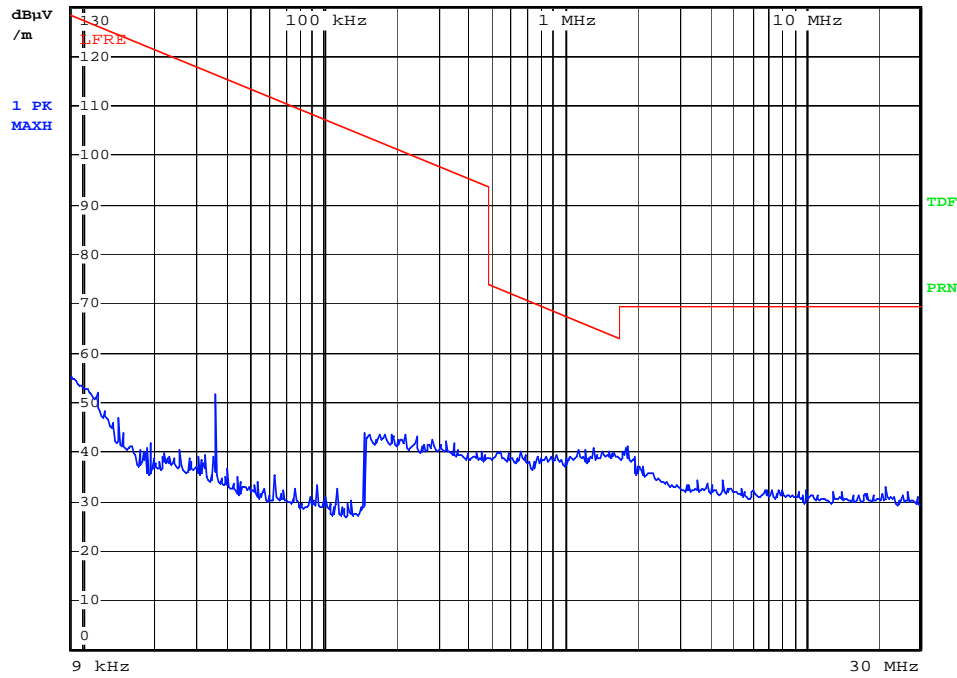


Date: 27.MAY.2012 08:40:50



RBW 200 Hz
MT 50 ms

Att 10 dB AUTO PREAMP OFF



Date: 27.MAY.2012 08:42:49


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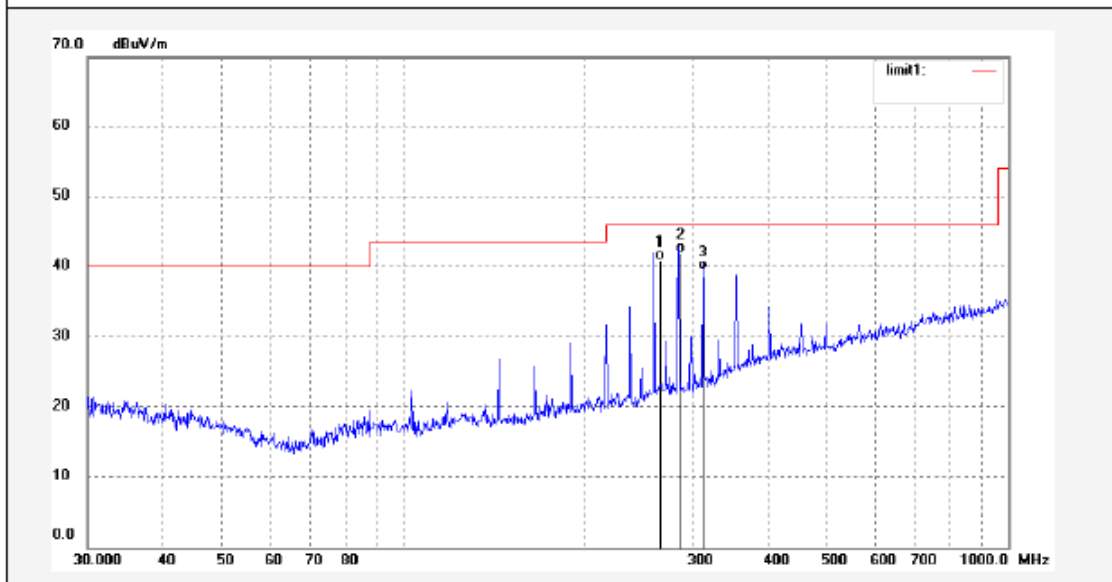
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8857	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 9/37/45
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	264.0086	22.24	18.66	40.90	46.00	-5.10	QP			
2	287.9992	23.29	18.55	41.84	46.00	-4.16	QP			
3	311.9962	20.41	19.10	39.51	46.00	-6.49	QP			


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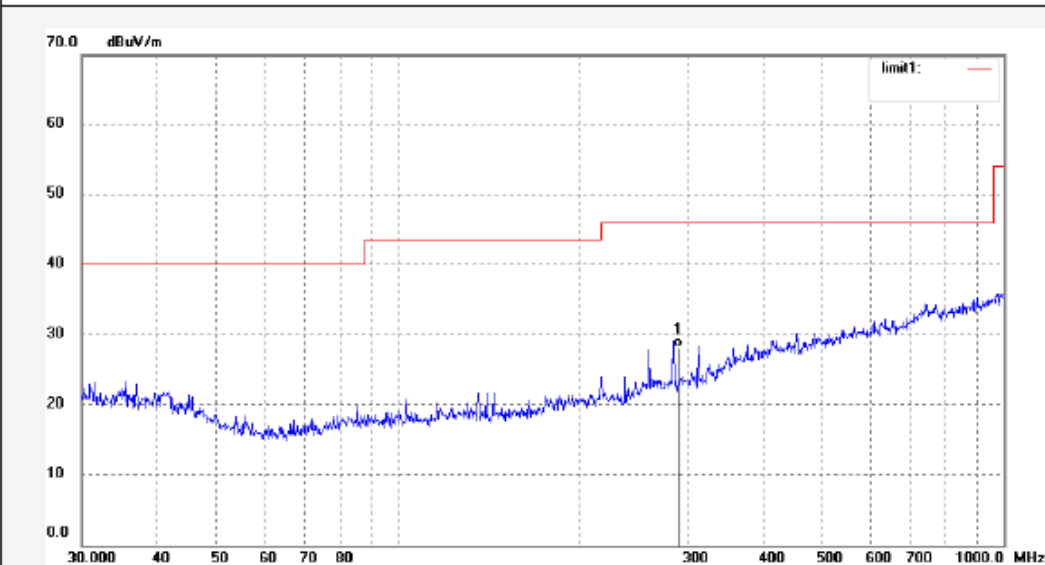
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8858	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 9/45/33
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	287.9994	9.52	18.55	28.07	46.00	-17.93	QP			


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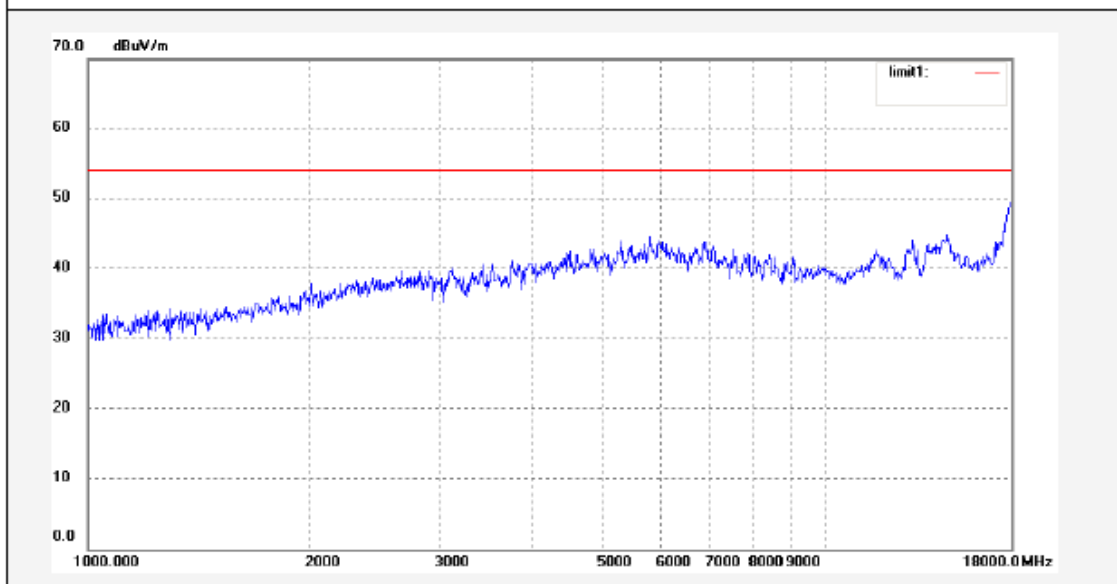
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8867	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11/01/18
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

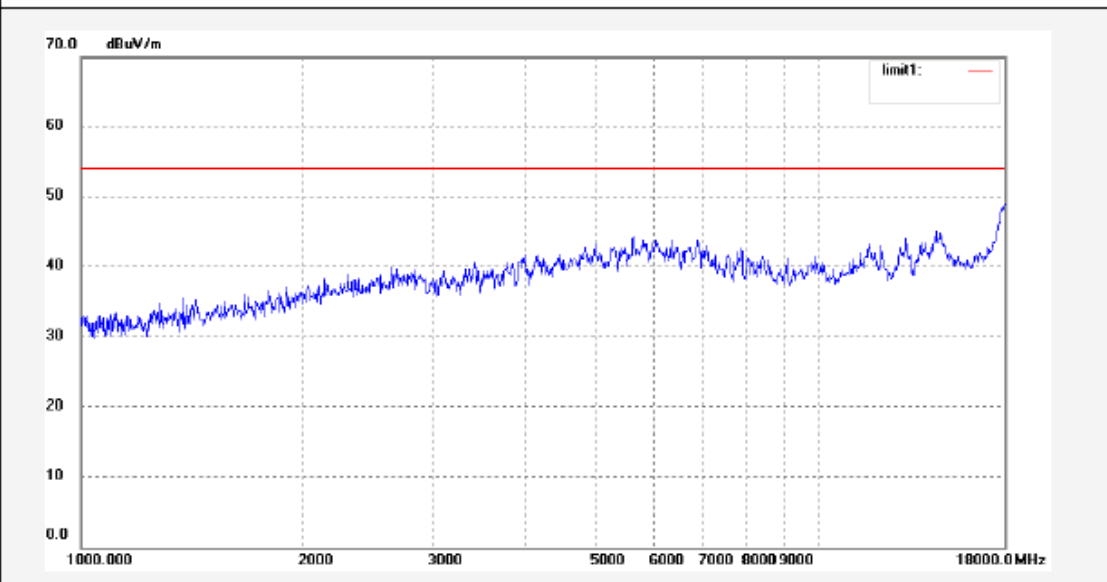
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8868	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11/10/37
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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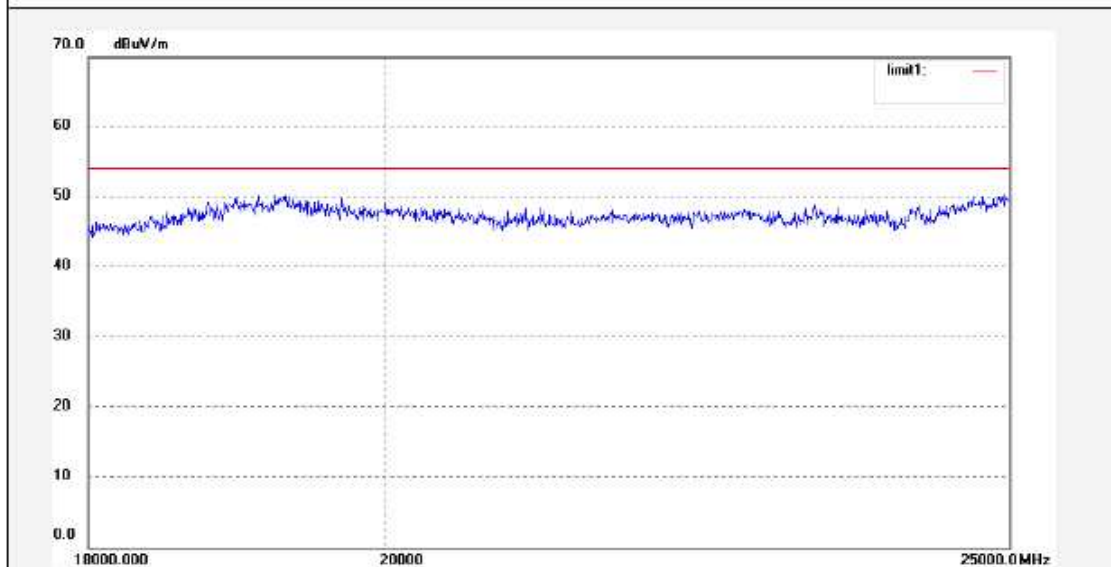
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8869	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11/17/50
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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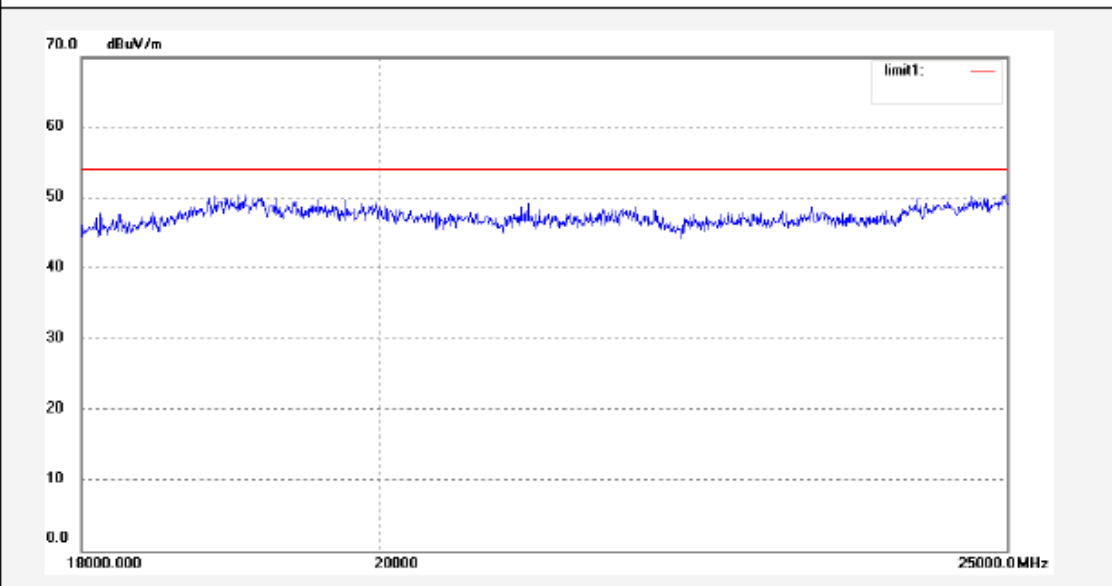

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 Site: 966 chamber
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 Fax:+86-0755-26503396

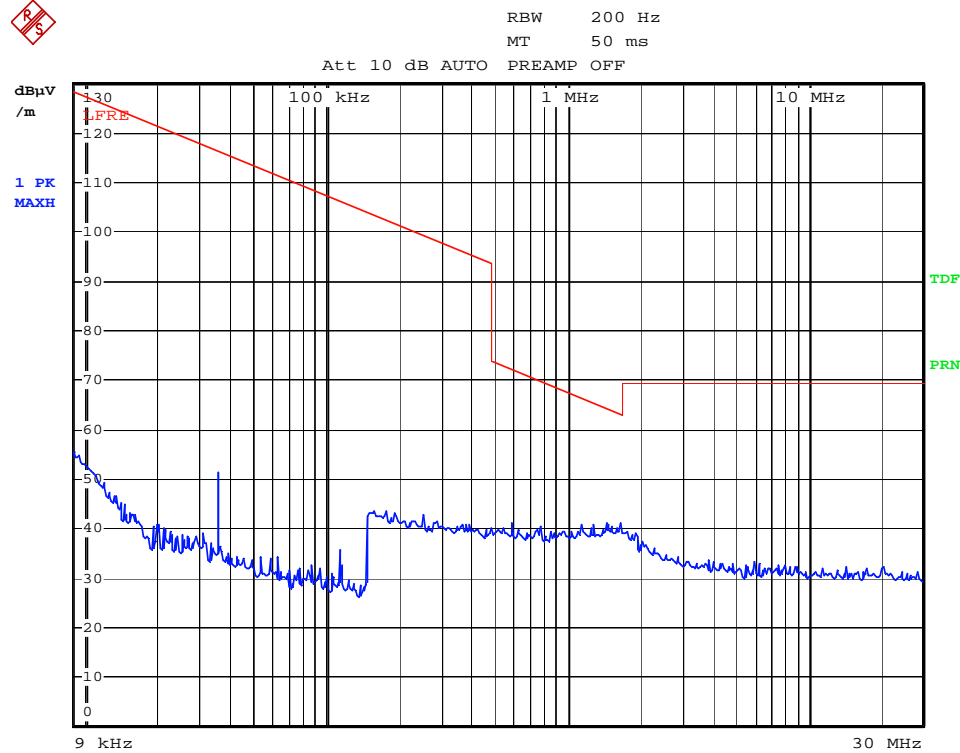
Job No.: pei #8870	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11/25/28
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:

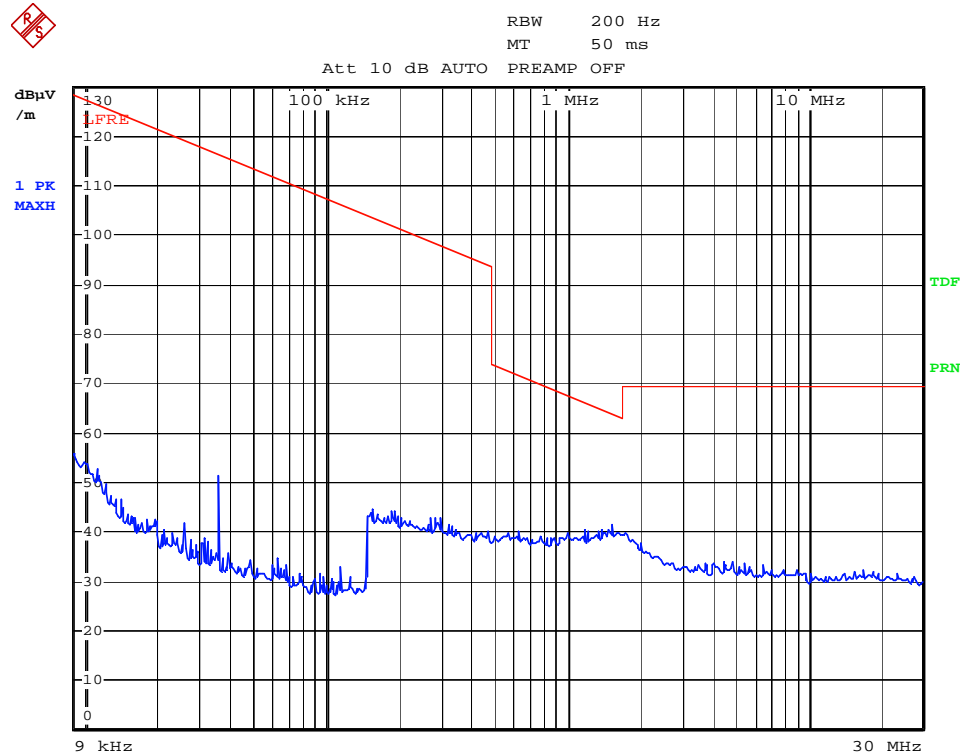


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Test Graph of Spurious emissions, Middle channel, mode B



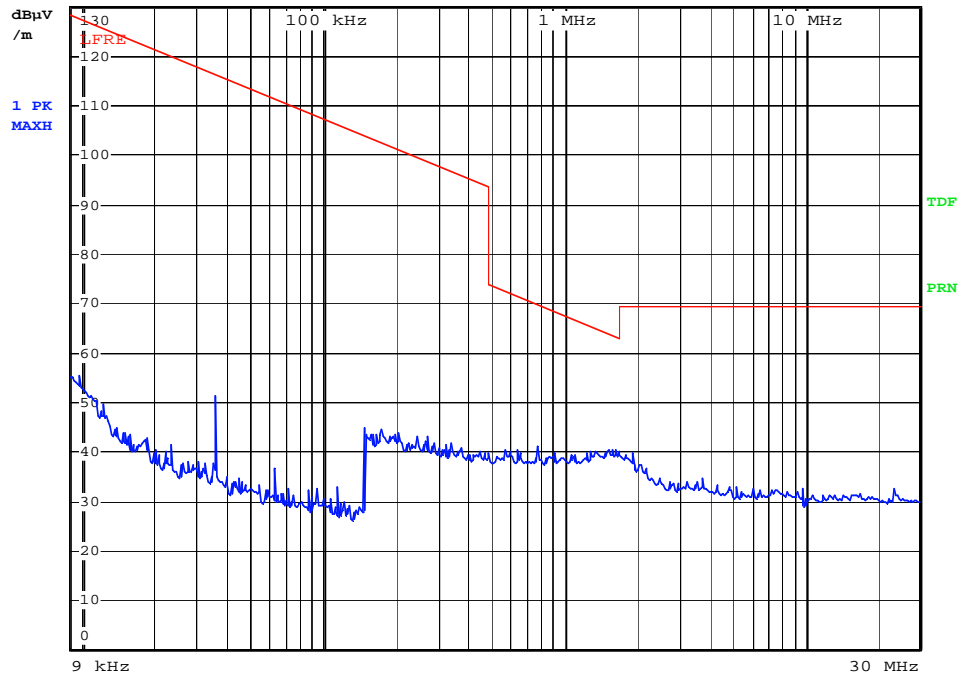
Date: 27.MAY.2012 08:45:02



Date: 27.MAY.2012 08:47:04


 RBW 200 Hz
 MT 50 ms

Att 10 dB AUTO PREAMP OFF



Date: 27.MAY.2012 08:49:08


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

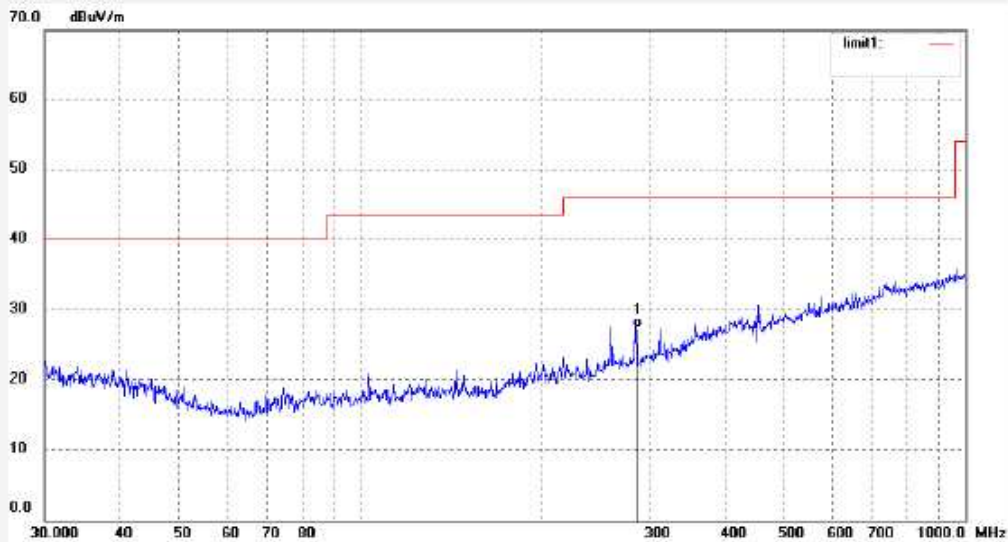
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8859	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 9/54/21
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: RX 2441MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



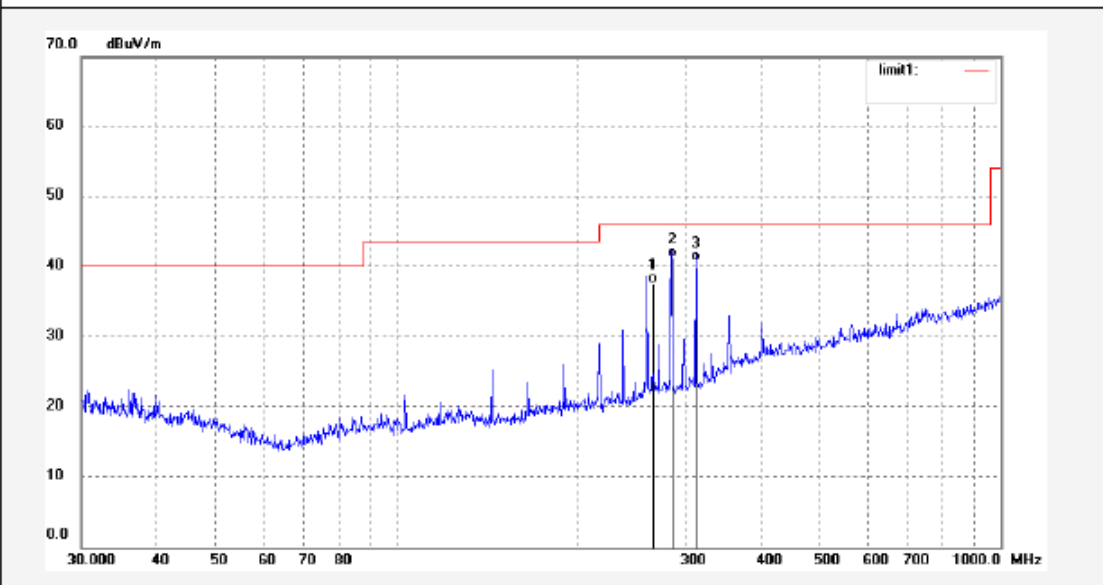
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	287.9854	8.81	18.55	27.36	46.00	-18.64	QP			


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

 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: pei #8860	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 10/03/38
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: RX 2441MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	263.9944	18.92	18.66	37.58	46.00	-8.42	QP			
2	288.0004	22.67	18.55	41.22	46.00	-4.78	QP			
3	312.0060	21.62	19.10	40.72	46.00	-5.28	QP			


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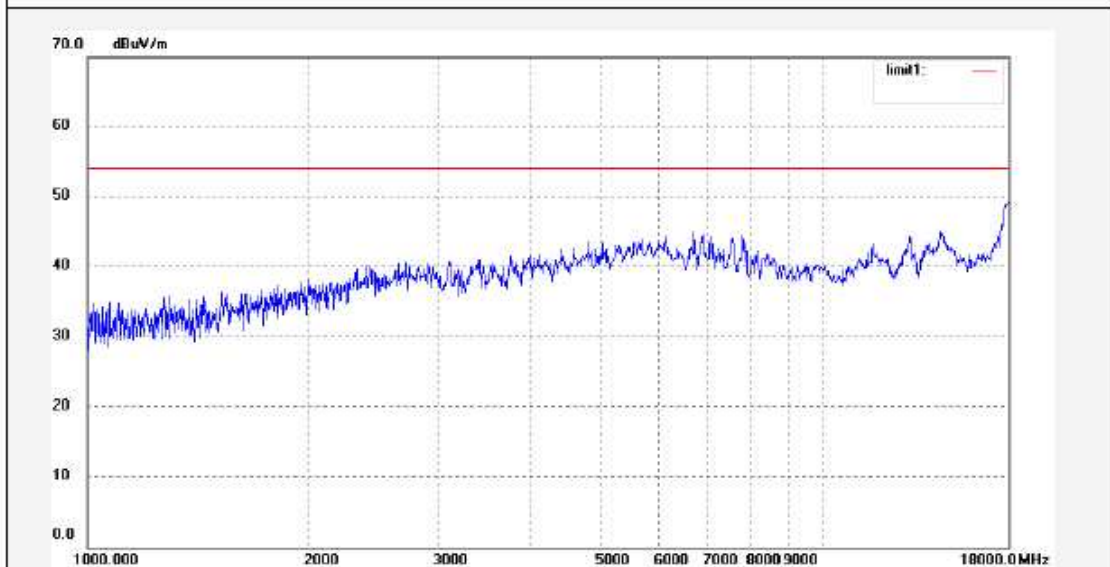
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8865	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 10/45/53
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: RX 2441MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

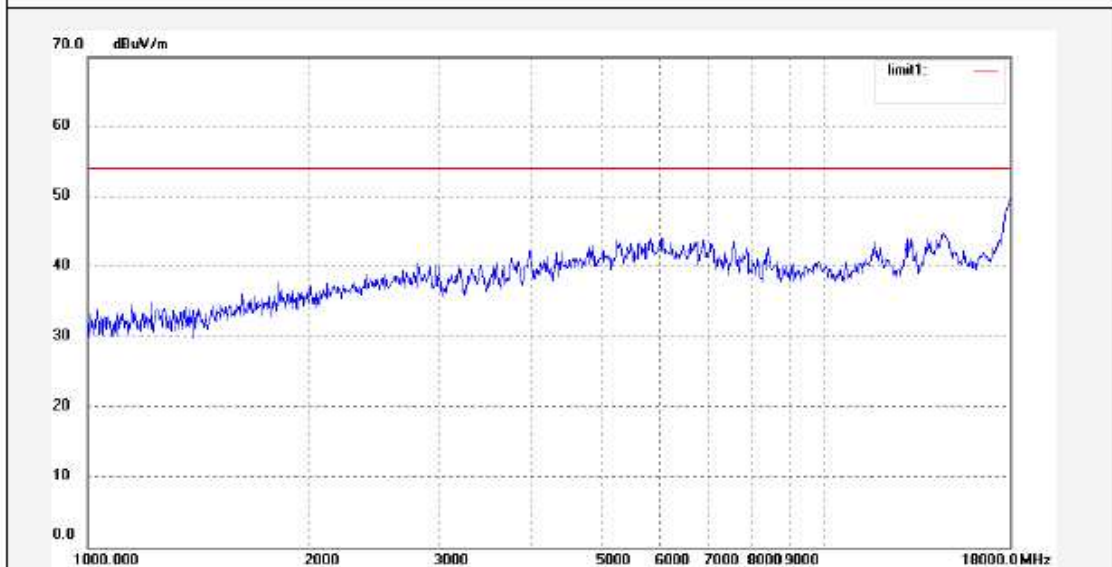
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8866	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 10/53/36
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: RX 2441MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

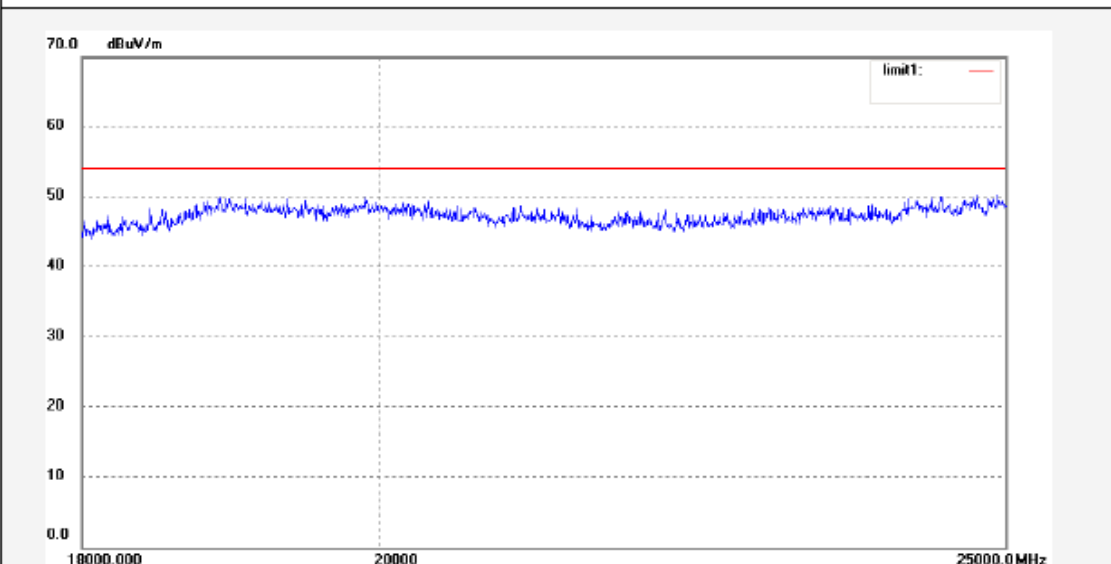
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8871	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11/33/47
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: RX 2441MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

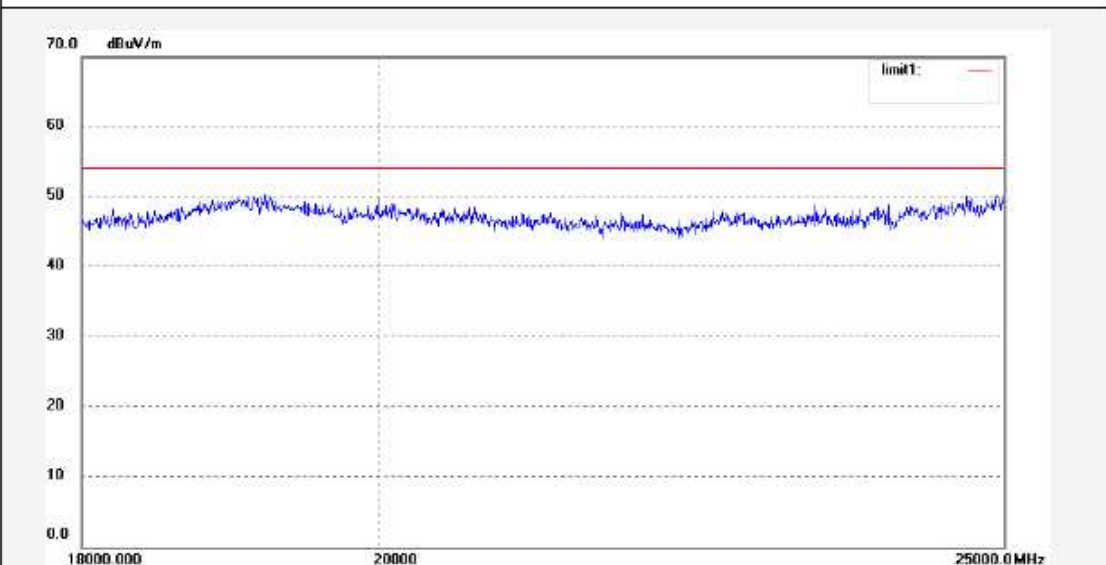
Site: 966 chamber

Tel:+86-0755-26503290

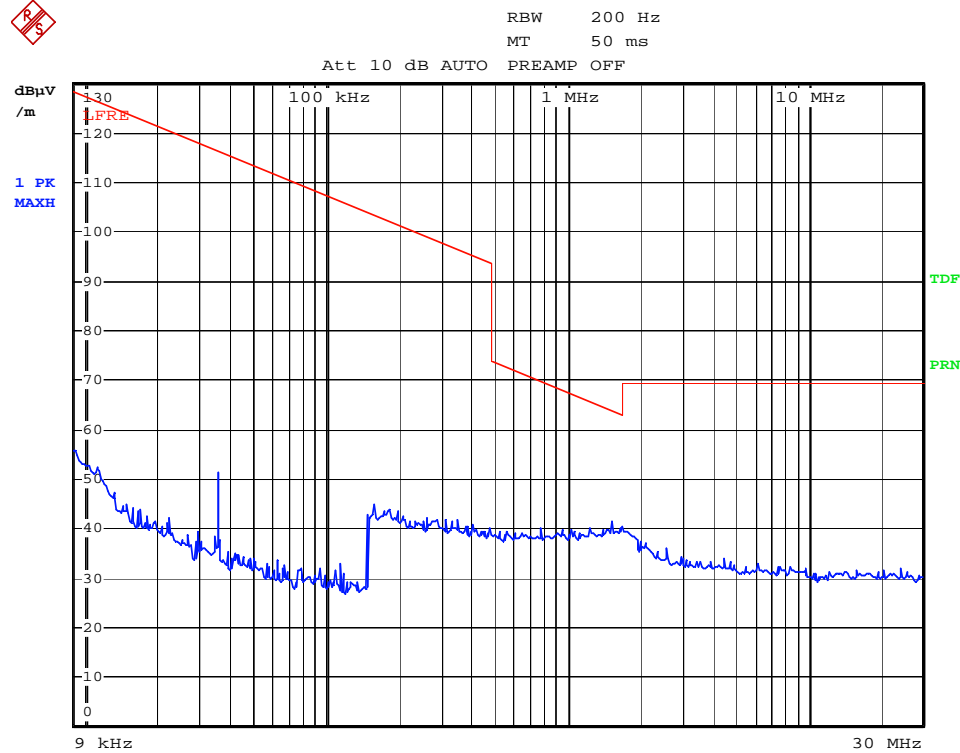
Fax:+86-0755-26503396

Job No.: pei #8872	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11/39/25
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: RX 2441MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

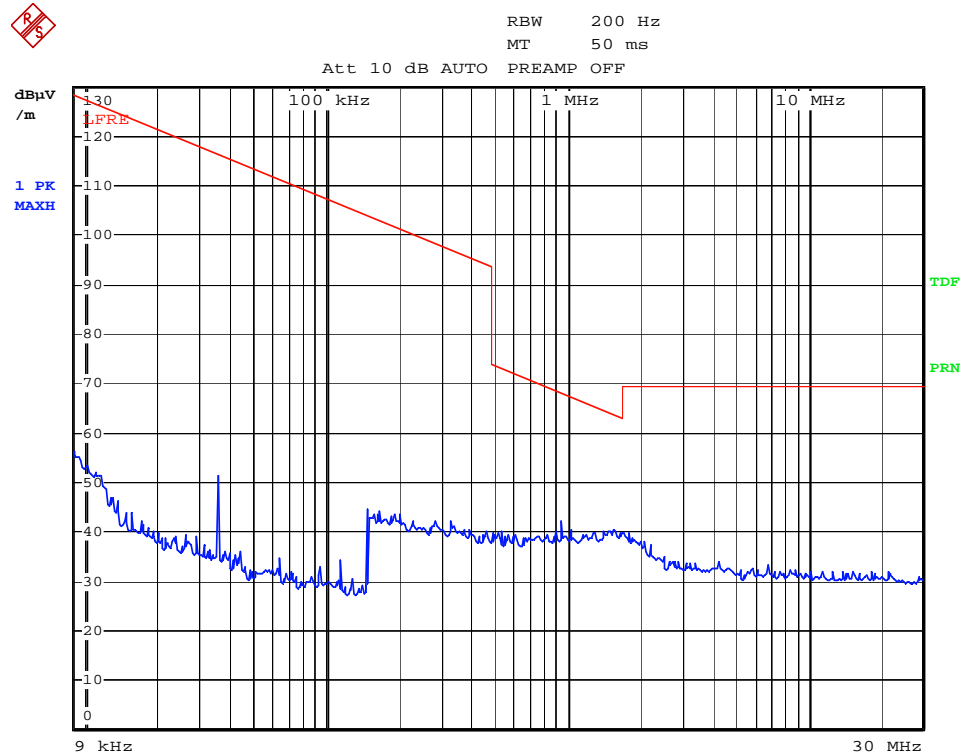
Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Test Graph of Spurious emissions, High channel, mode B


Date: 27.MAY.2012 08:51:12



Date: 27.MAY.2012 08:53:55

Produkte
Products

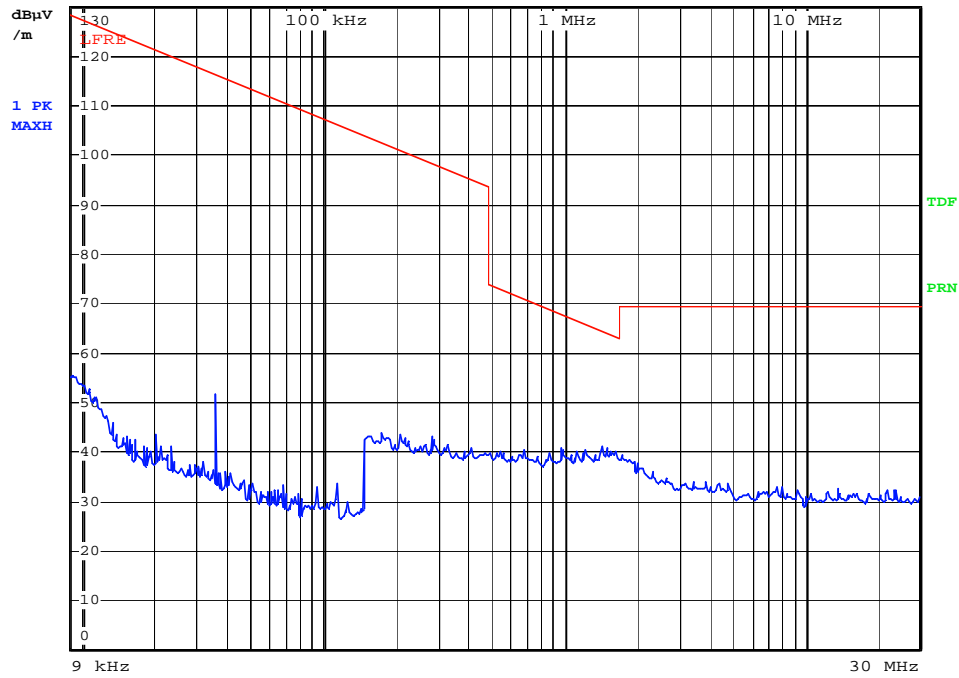
Prüfbericht - Nr.: 17025702 001
Test Report No.

Seite 73 von 100
Page 73 of 100



RBW 200 Hz
MT 50 ms

Att 10 dB AUTO PREAMP OFF



Date: 27.MAY.2012 08:56:02


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

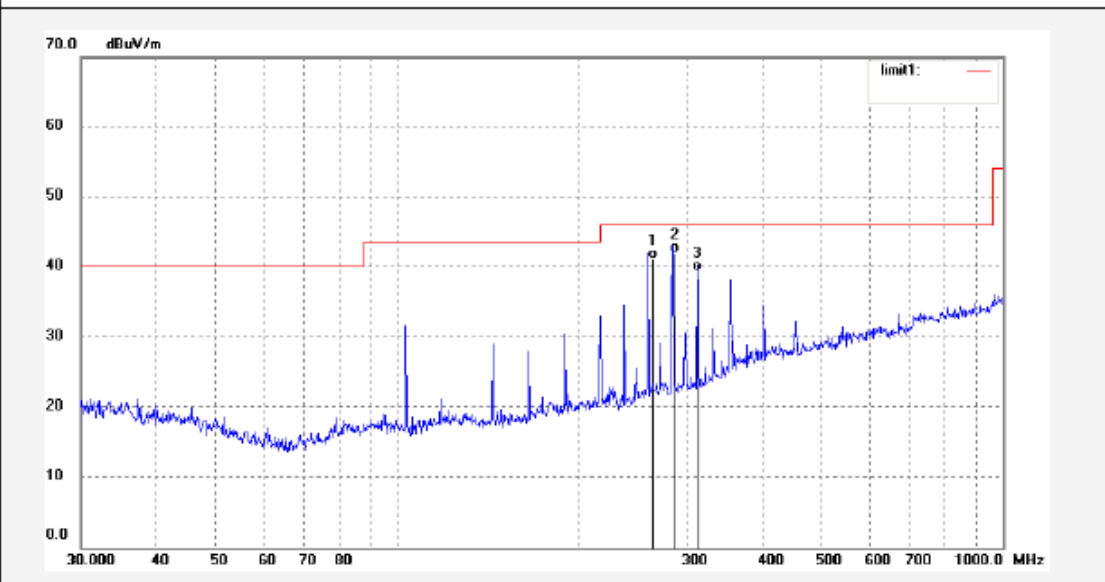
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8861	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 10/15/27
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: RX 2480MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	264.0033	22.29	18.66	40.95	46.00	-5.05	QP			
2	287.9904	23.43	18.55	41.98	46.00	-4.02	QP			
3	311.9924	20.11	19.10	39.21	46.00	-6.79	QP			


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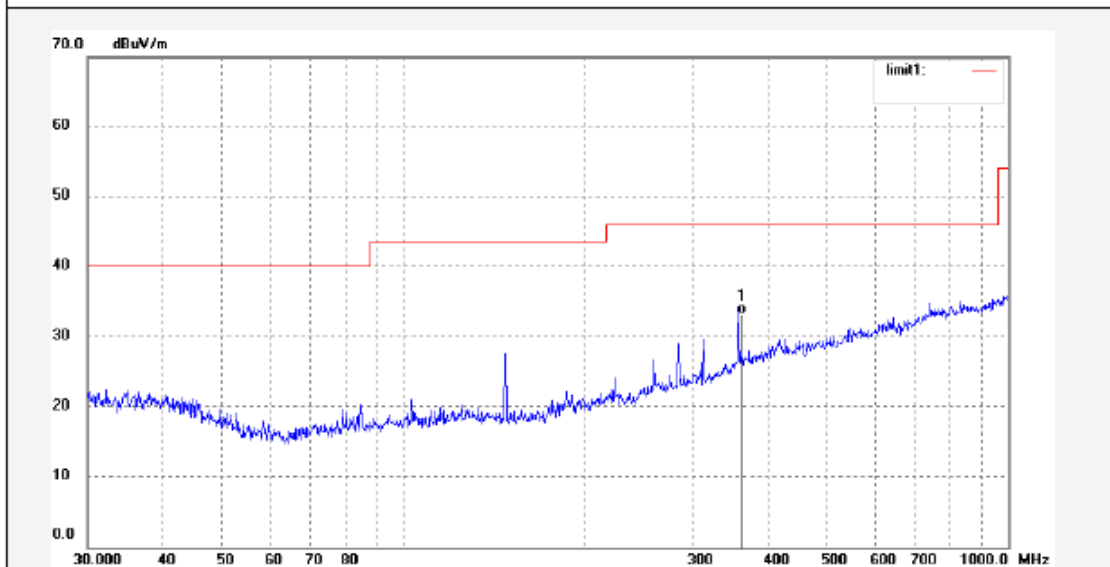
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8862	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 10/24/05
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: RX 2480MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	363.5540	11.80	21.41	33.21	46.00	-12.79	QP			


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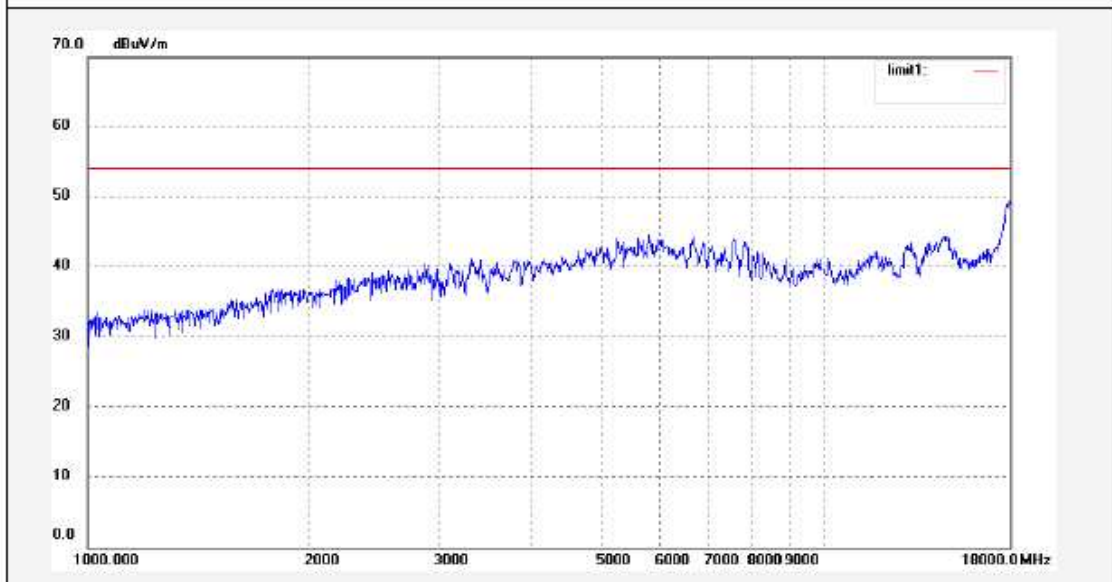
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8863	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 10/31/56
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: RX 2480MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	-------------	------------------	-------------	-----------------	----------------	-------------	----------	-------------	---------------	--------


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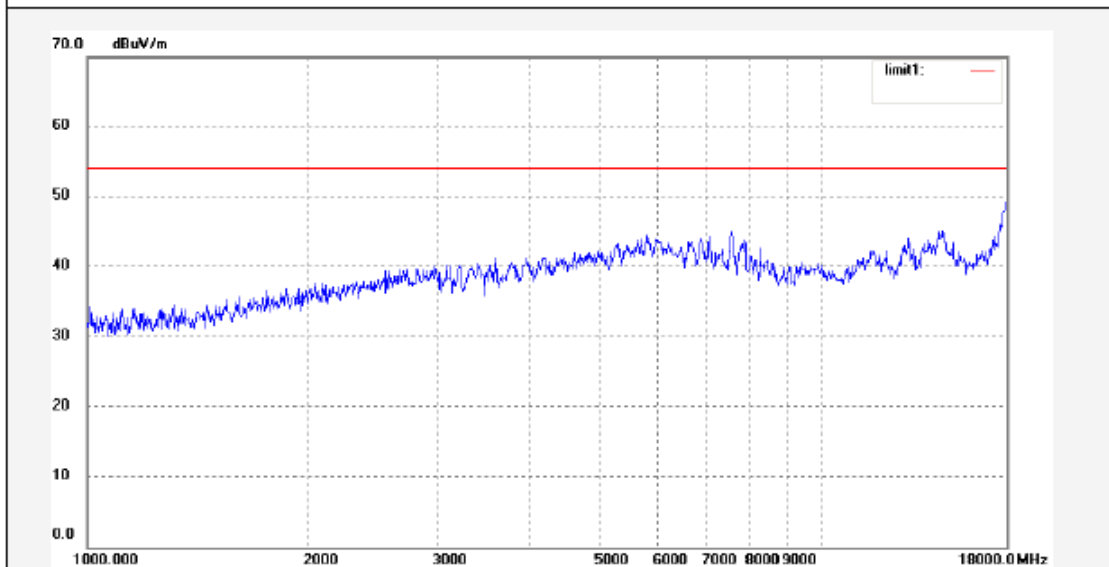
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8864	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 10/38/34
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: RX 2480MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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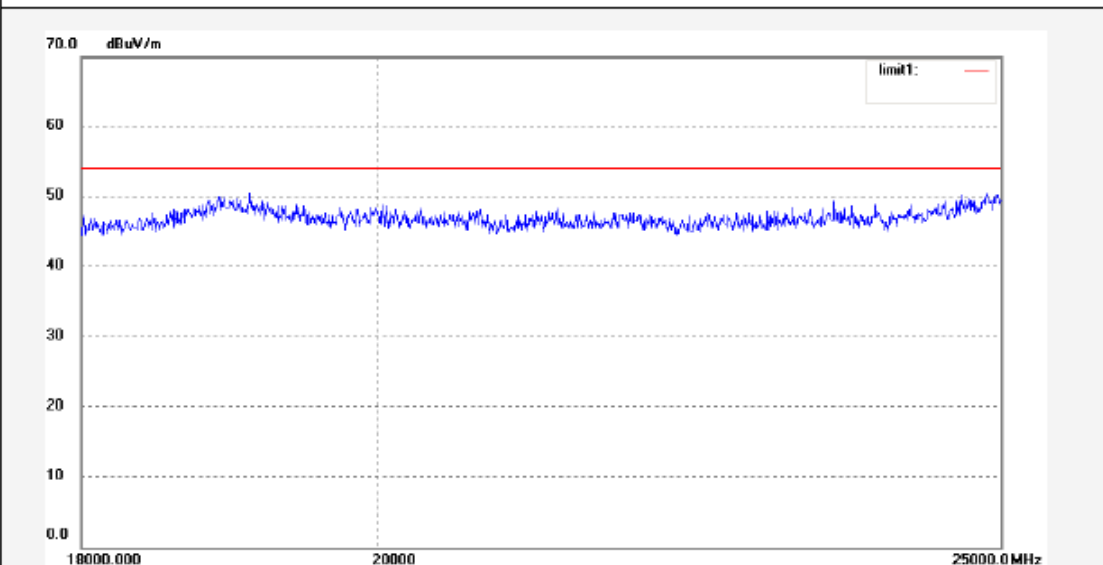
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8873	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11/46/42
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: RX 2480MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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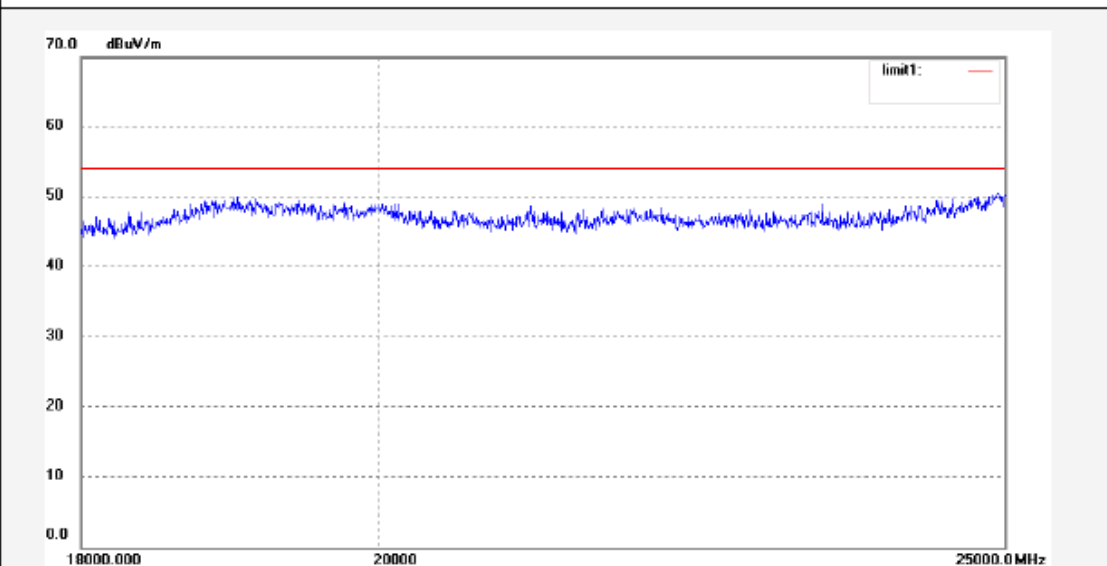
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8874	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/05/25/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11/54/14
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: RX 2480MHz	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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5.1.6 Frequency Separation

RESULT:
Passed

Date of testing : 2012-05-25
 Test standard : FCC part 15.247(a)(1)
 : RSS-210 A8.1(b)
 Basic standard : ANSI C63.4: 2003
 Limit : $\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth,
 whichever is greater
 Kind of test site : Shield room

Test setup

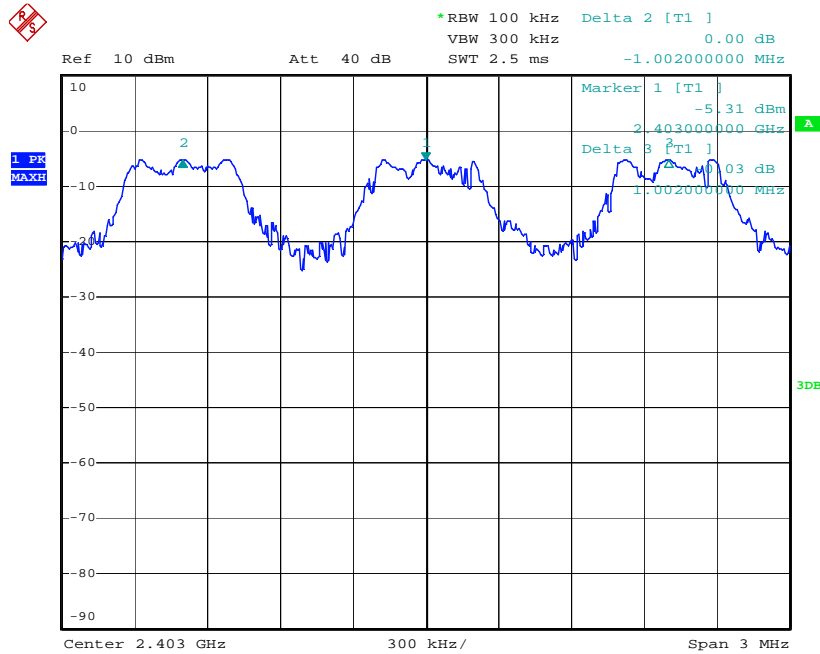
Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 25°C
 Relative humidity : 50%
 Atmospheric pressure : 101.0 kPa

Table 7: Test result of Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2480	1	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2479			

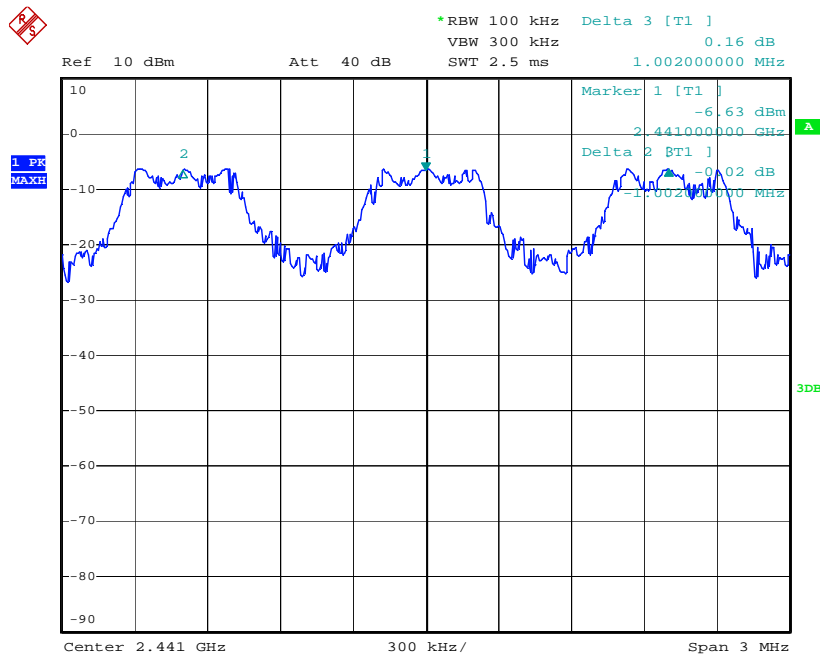
Test Graph of Frequency Separation

Low Channel

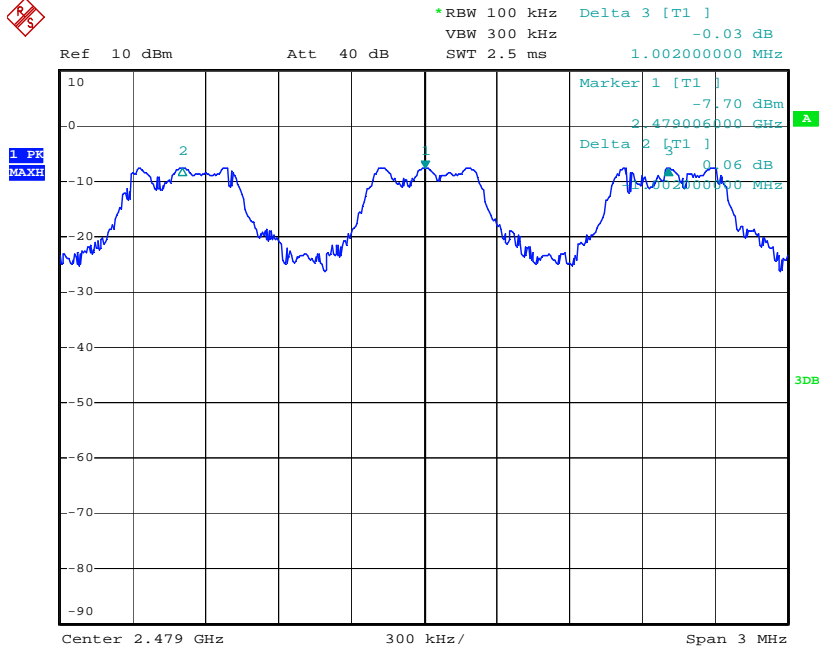


Date: 25.MAY.2012 12:09:43

Middle Channel



Date: 25.MAY.2012 12:02:12

High Channel


Date: 25.MAY.2012 12:16:53

5.1.7 Number of hopping frequency

RESULT:
Passed

Date of testing : 2012-05-25
 Test standard : FCC part 15.247(a)(1)(iii)
 : RSS-210 A8.1(d)
 Basic standard : ANSI C63.4: 2003
 Limits : ≥ 15 non-overlapping channels
 Kind of test site : Shield room

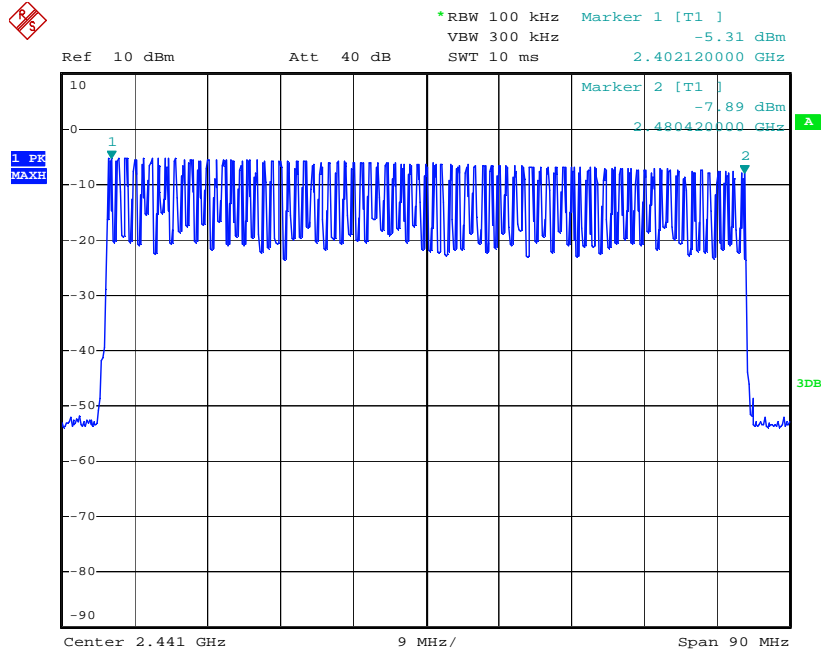
Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 25°C
 Relative humidity : 50%
 Atmospheric pressure : 101.0 kPa

Table 8: Test result of Number of hopping frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
<u>2400</u> to <u>2483.5</u> MHz	79	≥ 15	Pass

Test Graph of Number of hopping frequency



Date: 25.MAY.2012 11:56:03

5.1.8 Time of Occupancy

RESULT:
Passed

Date of testing : 2012-05-25
 Test standard : FCC part 15.247(a)(1)(iii)
 : RSS-210 A8.1(d)
 Basic standard : ANSI C63.4: 2003
 Limits : 0.4s
 Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 24°C
 Relative humidity : 52%
 Atmospheric pressure : 101.0 kPa

Table 9: Test result of Time of Occupancy

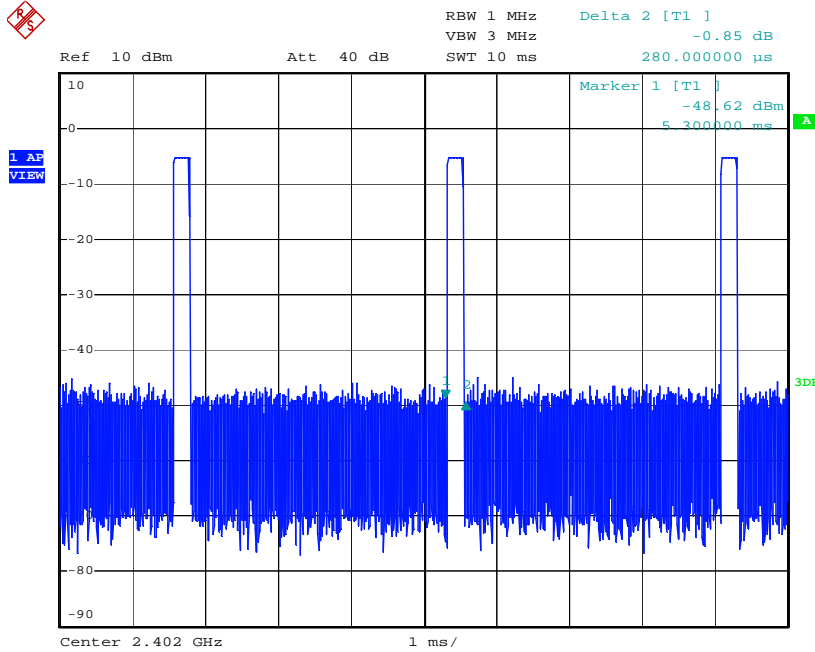
Channel	Data Mode	Pulse width (ms)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	DH1	0.280	0.090	0.4	Pass
Mid Channel	DH1	0.280	0.090	0.4	Pass
High Channel	DH1	0.280	0.090	0.4	Pass

Note:

Dwell time = Pulse width x (Hopping rate / Number of channels) x Period

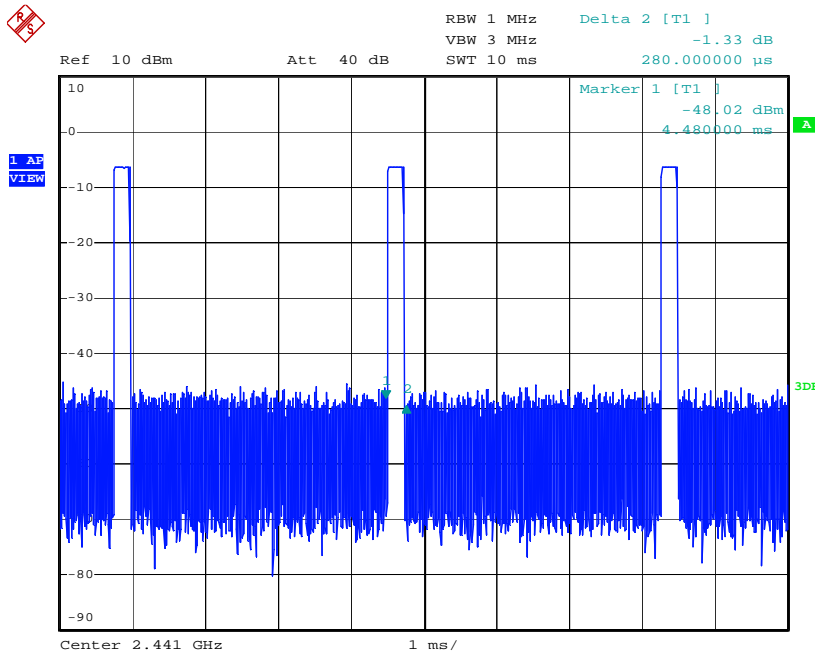
Period = 0.4 (seconds/ channel) x 79 (channel) = 31.6 seconds

Test Graph of Time of Occupancy
Low Channel



Date: 25.MAY.2012 12:28:24

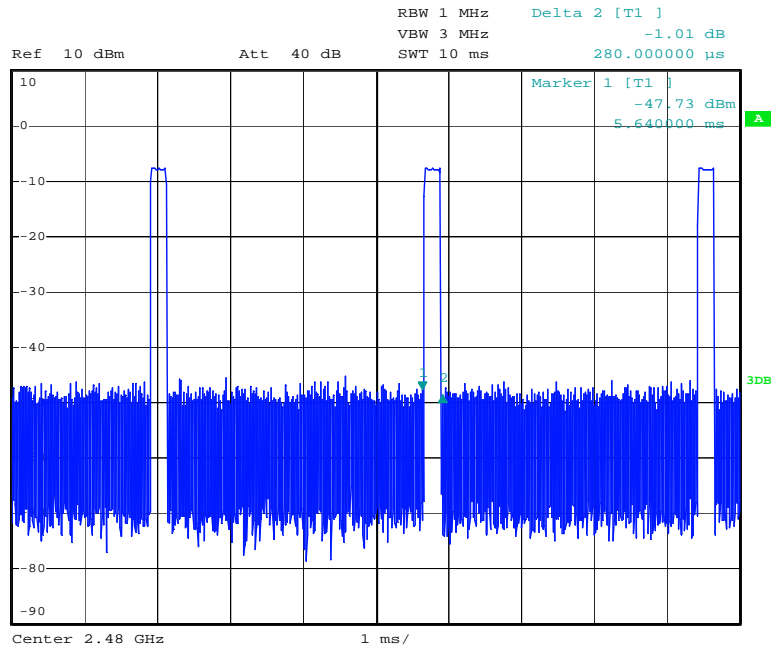
Middle Channel



Date: 25.MAY.2012 12:32:04

High Channel


1 AP
VIEW



Date: 25.MAY.2012 12:33:03

5.1.9 Radiated emissions

RESULT:**Passed**

Date of testing : 2012-05-26
Test standard : FCC Part 15.109
RSS-Gen 7.1.4
Basic standard : ANSI C63.4: 2003
Frequency range : 30 – 6000MHz
Limits : FCC Part 15.109(a)
ICES-003
Kind of test site : 3m Semi-Anechoic Chamber

Test Setup

Input Voltage : DC 5V (Charging by USB port)
Operation Mode : C
Ambient temperature : 24°C
Relative humidity : 48%
Atmospheric pressure : 101.0 kPa

Refer to following test graphs for details.

Test Graph of Radiated emissions, mode C, charging by USB port

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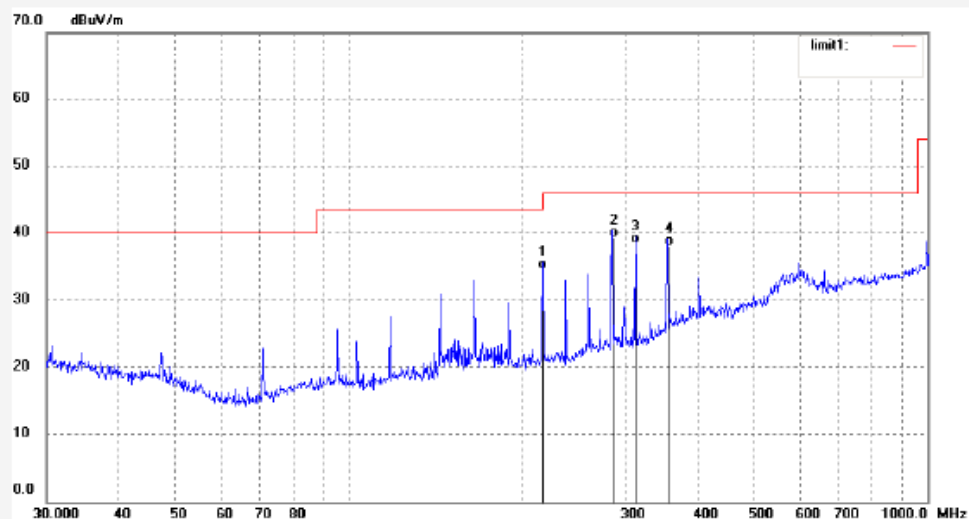
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8893	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 12/05/26/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 7/38/58
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: Charging	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	215.9976	17.98	16.56	34.54	43.50	-8.96	QP			
2	288.0029	20.71	18.55	39.26	46.00	-6.74	QP			
3	312.0061	19.39	19.10	38.49	46.00	-7.51	QP			
4	360.0056	16.90	21.24	38.14	46.00	-7.86	QP			


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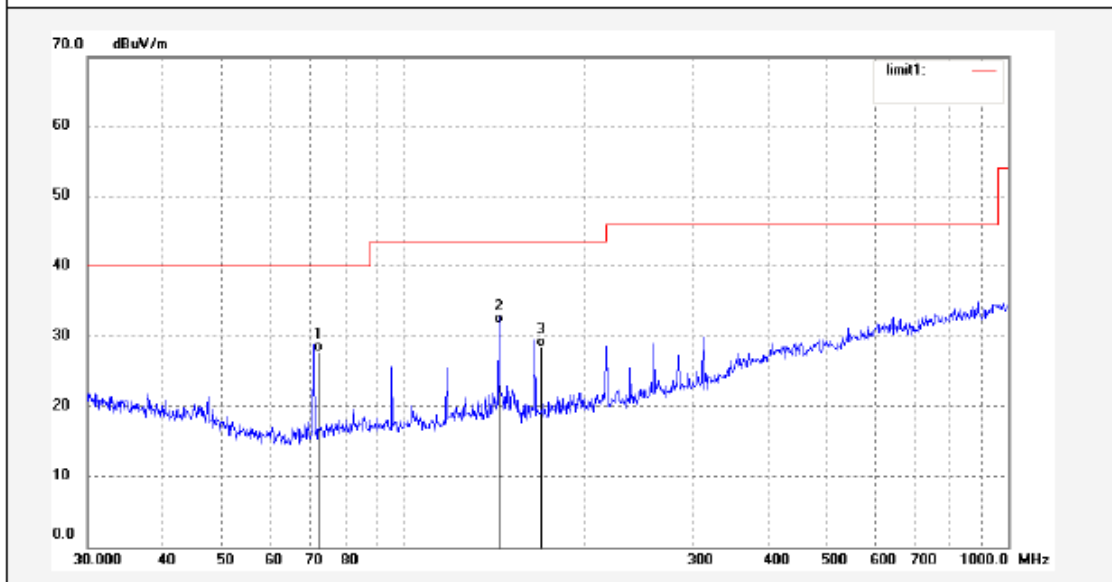
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8894	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 12/05/26/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 7/50/42
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: Charging	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



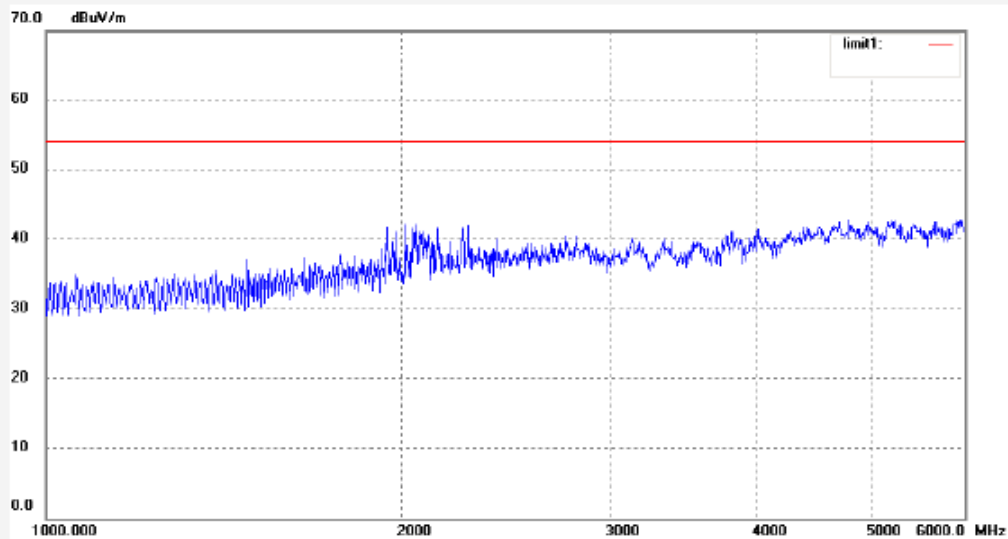
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	72.0034	14.80	13.02	27.82	40.00	-12.18	QP			
2	143.9960	17.33	14.48	31.81	43.50	-11.69	QP			
3	168.0020	13.76	14.70	28.46	43.50	-15.04	QP			


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 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: pei #8895	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 12/05/26/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 7/57/37
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: Charging	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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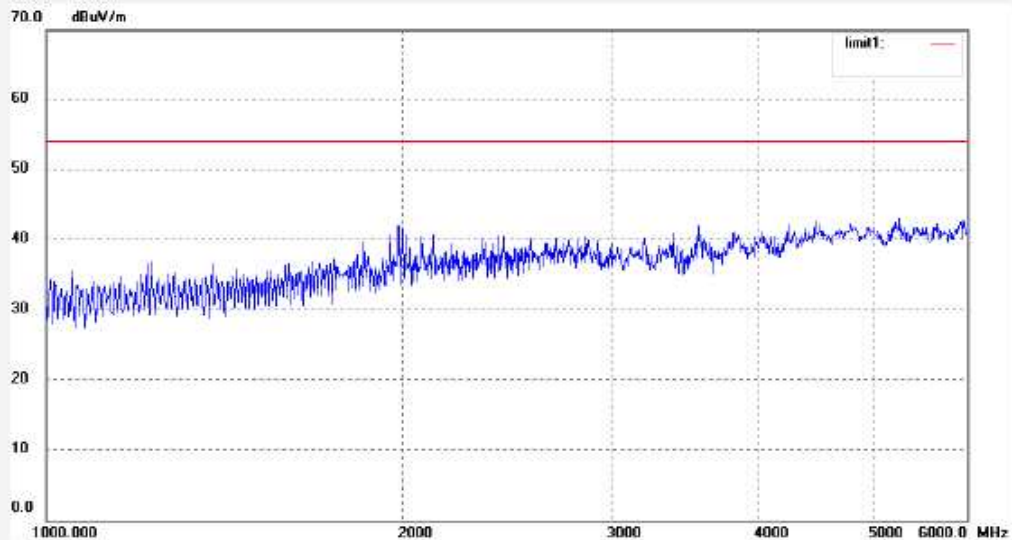
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #8896	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 12/05/26/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 8/05/20
EUT: Capsule Keyboard Case	Engineer Signature: PEI
Mode: Charging	Distance: 3m
Model: RF-iCAP23	
Manufacturer: Primax	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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5.1.10 Conducted emissions

RESULT:**Passed**

Date of testing : 2012-05-25
Test standard : FCC Part 15.107
RSS-210 Clause 2.6
Basic standard : ANSI C63.4: 2003
Frequency range : 0.15MHz – 30MHz
Limits : FCC Part 15.107(a)
Table 4 of RSS Gen
Kind of test site : Shield Room

Test Setup

Input Voltage : DC 5V (Charging by USB port)
Operation Mode : C
Ambient temperature : 24°C
Relative humidity : 52%
Atmospheric pressure : 101.0 kPa

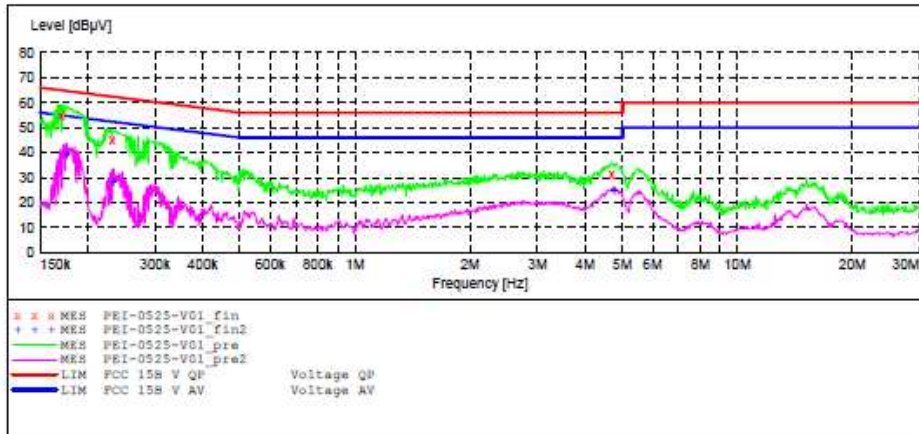
Refer to following test graphs for details.

Test Graph of Conducted emissions, mode C, charging by USB port
ACCURATE TECHNOLOGY CO., LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Capsule Keyboard Case M/N:RF-iCAP23
 Manufacturer: Primax
 Operating Condition: Charging by USB port
 Test Site: 1#Shielding Room
 Operator: PEI
 Test Specification: N 120V/60Hz
 Comment:
 Start of Test: 5/25/2012 / 9:43:43PM

SCAN TABLE: "V 150K-30MHz fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	0.8 %	QuasiPeak	1.0 s	9 kHz	NSLK9126 2008
Average						


MEASUREMENT RESULT: "PEI-0525-V01_fin"

5/25/2012 9:46PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.170439	54.60	11.1	65	10.3	QP	N	GND
0.231775	44.90	11.4	62	17.5	QP	N	GND
4.683297	31.30	11.5	56	24.7	QP	N	GND

MEASUREMENT RESULT: "PEI-0525-V01_fin2"

5/25/2012 9:46PM

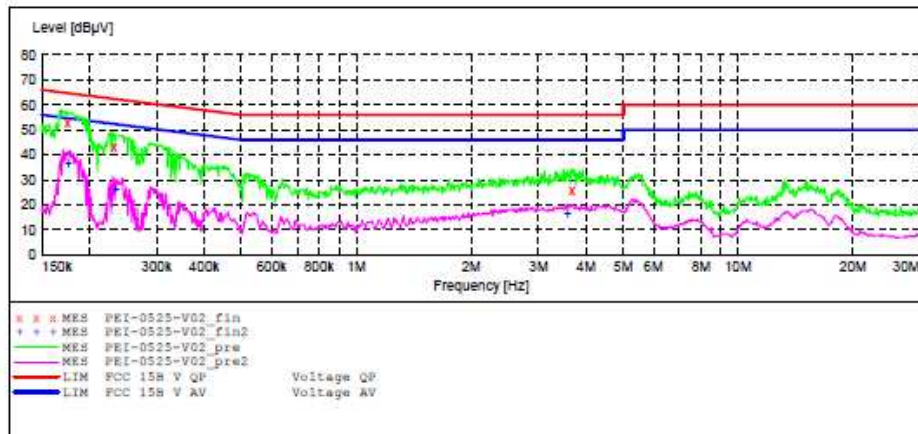
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.175970	39.30	11.1	55	15.4	AV	N	GND
0.233633	28.60	11.4	52	23.7	AV	N	GND
4.758681	24.80	11.4	46	21.2	AV	N	GND

ACCURATE TECHNOLOGY CO., LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Capsule Keyboard Case M/N:RF-iCAP23
 Manufacturer: Primax
 Operating Condition: Charging by USB port
 Test Site: 1#Shielding Room
 Operator: PEI
 Test Specification: L 120V/60Hz
 Comment:
 Start of Test: 5/25/2012 / 9:51:28PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 * QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average


MEASUREMENT RESULT: "PEI-0525-V02_fin"

5/25/2012 9:52PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.175269	52.60	11.1	65	12.1	QP	L1	GND
0.231775	48.20	11.4	62	19.2	QP	L1	GND
3.671092	25.70	11.5	56	30.3	QP	L1	GND

MEASUREMENT RESULT: "PEI-0525-V02_fin2"

5/25/2012 9:52PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.175970	36.60	11.1	55	18.1	AV	L1	GND
0.234567	26.20	11.4	52	26.1	AV	L1	GND
3.569926	16.70	11.5	46	29.3	AV	L1	GND

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Passed**

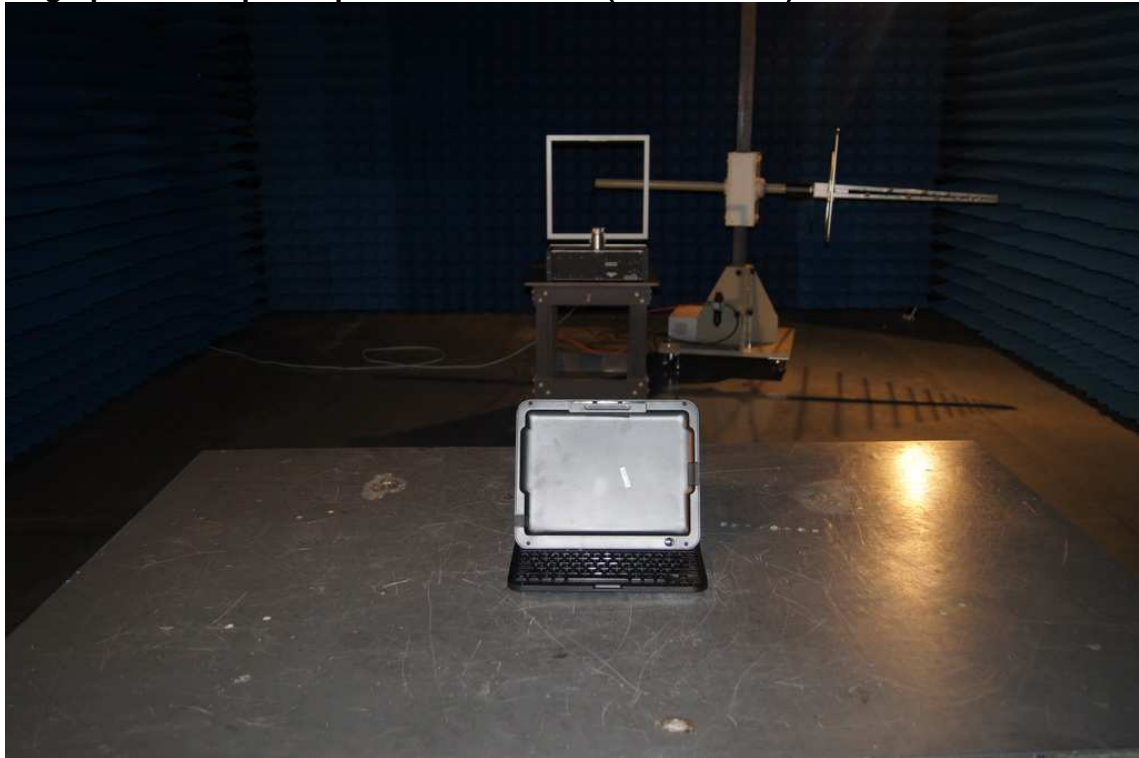
Test standard : RSS-102 Issue 4
FCC KDB Publication 447498

The maximum peak output power of the transmitter is 0.000257mW (-5.9dBm) only, which less than 20mW. Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 4.

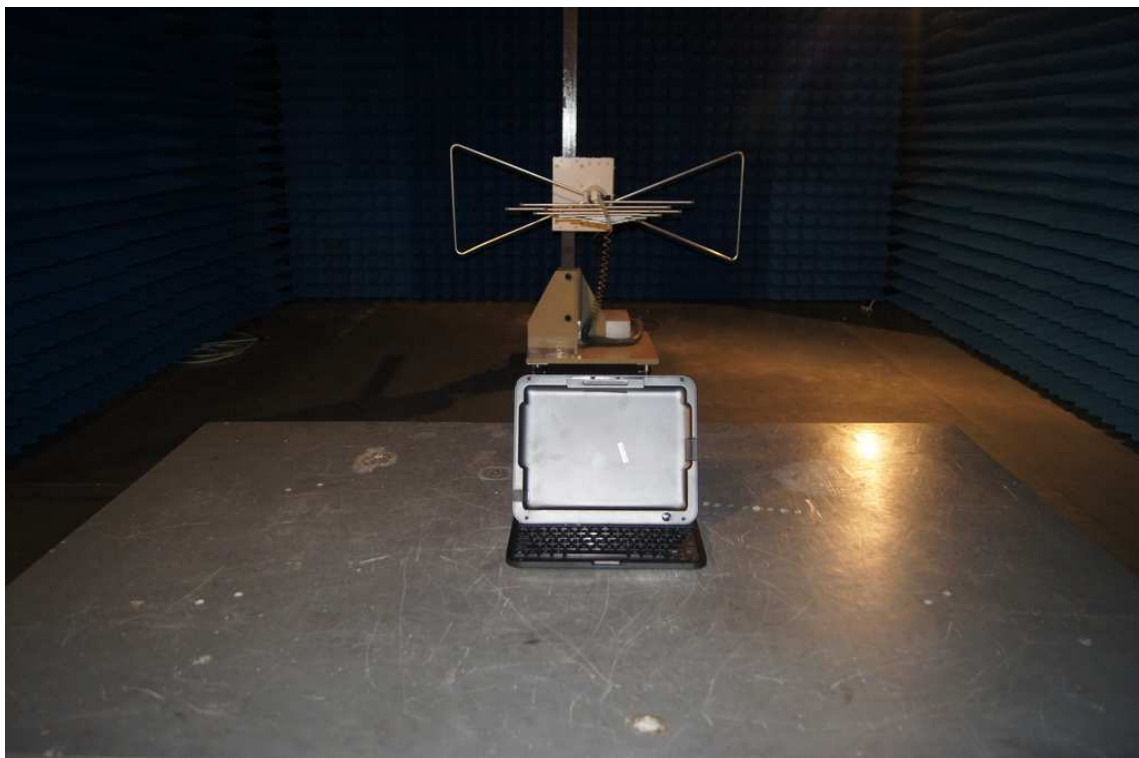
Since maximum peak output power of the transmitter is $<60/f$ (GHz) mW, i.e. $0.0014\text{mW} < 25(=60/2.4)$ mW, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile Portable RF Exposure.

7. Photographs of the Test Set-Up

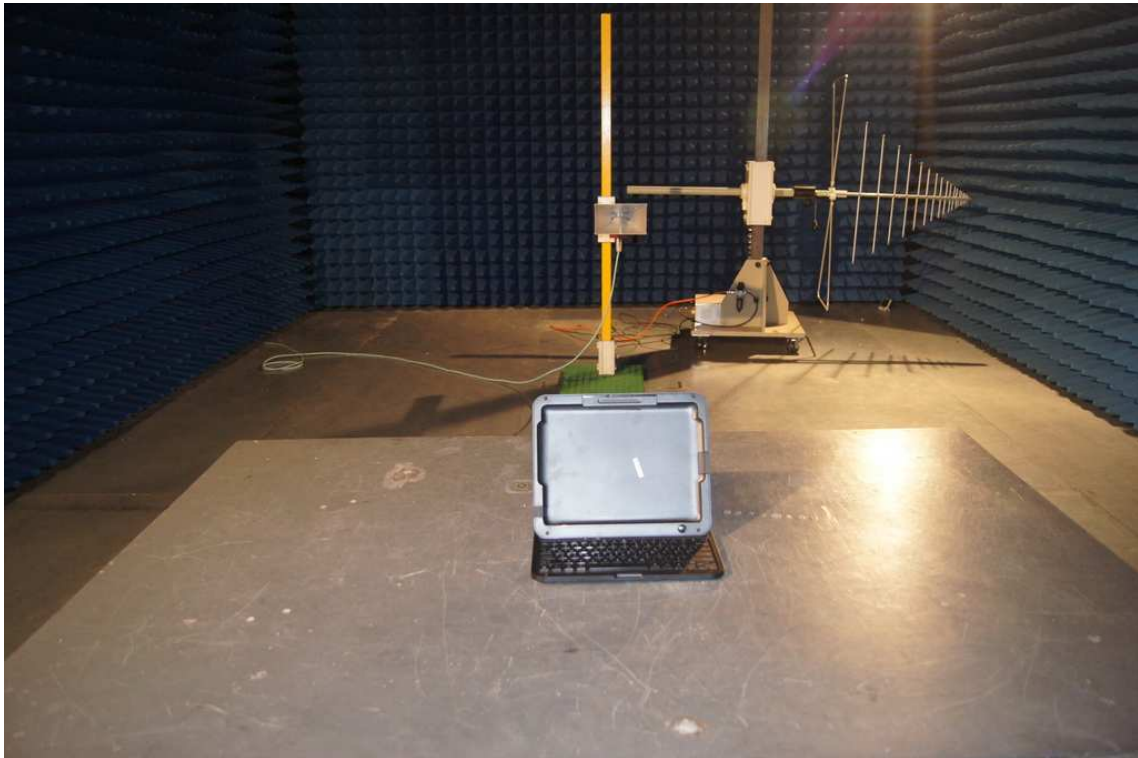
Photograph 1: Set-up for Spurious Emissions (9kHz-30MHz)



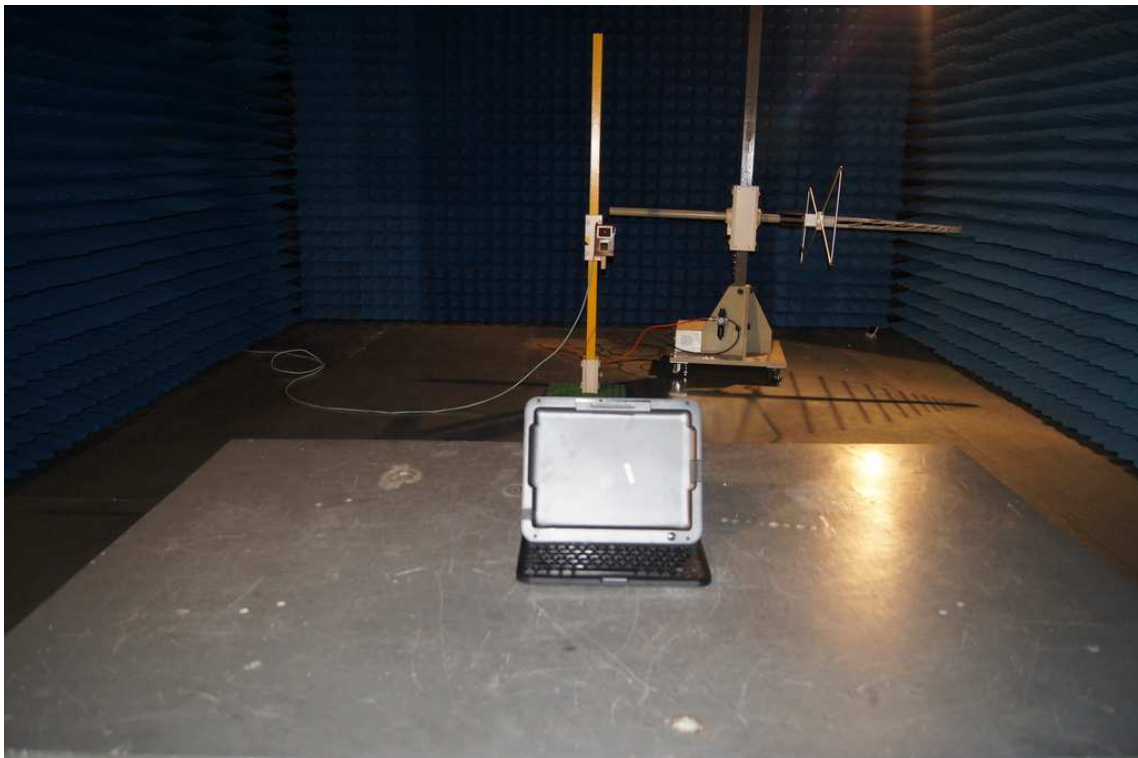
Photograph 2: Set-up for Spurious Emissions (30MHz-1GHz)



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



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



Photograph 5: Set-up for Radiated emissions



Photograph 6: Set-up for Conducted emissions



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