



Neutron Engineering Inc.

FCC Radio Test Report

FCC ID: 2AAD7KRGCT-BLADEPAD

This report concerns (check one): ☒ Original Grant ☐ Class II Change

Issued Date : May. 23, 2013
Project No. : 1305C092
Equipment : SLIDING BLUETOOTH GAMEPAD
Model Name : KRGCT02-Bladepad
Applicant : Bladepad, LLC
Address : 1071 N State St.Orem, UT 84057 USA
Manufacturer : KINGRAIN INTERNATIONAL GROUP CO., LTD
Address : ROOM1911, CHINTO TECHNOLOGY BUILDING
MINZHI AVE. MINZHI TOWN, LONGHUA District
SHENZHEN CHINA

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Receipt: May. 14, 2013

Date of Test:

May. 14, 2013 ~ May. 23, 2013

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Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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1. CERTIFICATION

Equipment : SLIDING BLUETOOTH GAMEPAD
Brand Name : Bladepad
Model Name : KRGCT02-Bladepad
Applicant : Bladepad, LLC
Factory : SHENZHEN KINGRAIN QIHUA TECHNOLOGY CO.,LTD
Address : ROAD6, NO.3, SHAPU YANGYONG, BAOAN DISTICT SHENZHEN, CHINA
Date of Test : May. 14, 2013 ~ May. 23, 2013
Test Item : ENGINEERING SAMPLE
Standards : FCC Part15, Subpart C(15.247) / ANSI C63.4-2009

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-1305C092) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C				
Standard	Section	Test Item	Judgment	Remark
15.207		Conducted Emission	PASS	
15.247(d)		Antenna conducted Spurious Emission	PASS	
15.247(a)(2)		6dB Bandwidth	PASS	
15.247(b)(3)		Peak Output Power	PASS	
15.209/15.205		Radiated Spurious Emission	PASS	
15.247(e)		Power Spectral Density	PASS	
15.203		Antenna Requirement	PASS	

NOTE:

(1) "N/A" denotes test is not applicable in this test report.

(2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r01
(Measurement Guidelines of DTS)



2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3,Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792
Neutron's test firm number is 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U , (dB)	NOTE
DG-CB03	CISPR	9K~30MHz	V	3.79	
		9K~30MHz	H	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	H	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	H	4.14	



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	SLIDING BLUETOOTH GAMEPAD	
Brand Name	Bladepad	
Model Name	KRGCT02-Bladepad	
Model Difference	N/A	
Product Description	The EUT is a SLIDING BLUETOOTH GAMEPAD.	
	Operation Frequency:	2402~2480 MHz
	Modulation Technology:	GFSK(1Mbps)
	Bit Rate of Transmitter	
	Number of Channel	40CH
	Antenna Designation:	Please see note 3.(Page 9)
	Antenna Gain(Peak)	
	Output Power:	-12.12 dBm (1Mbps)
	More details of EUT technical specification, please refer to the User's Manual.	
Power Source	#1 DC voltage supplied from PC USB port #2 DC voltage supplied from Li-ion battery. Battery Model: LTG402337P	
Power Rating	#1 I/P AC 120V/60Hz O/P DC 5V #2 DC 3.7V	
Connecting I/O Port(s)	Please refer to the User's Manual	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



3.

Channel List			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	Printed Antenna	N/A	0	



3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX Mode NOTE (1)
Mode 2	Bluetooth

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 2	Bluetooth

For Radiated Test	
Final Test Mode	Description
Mode 1	TX Mode NOTE (1)

Note:

(1) The measurements are performed at the high, middle, low available channels.



3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

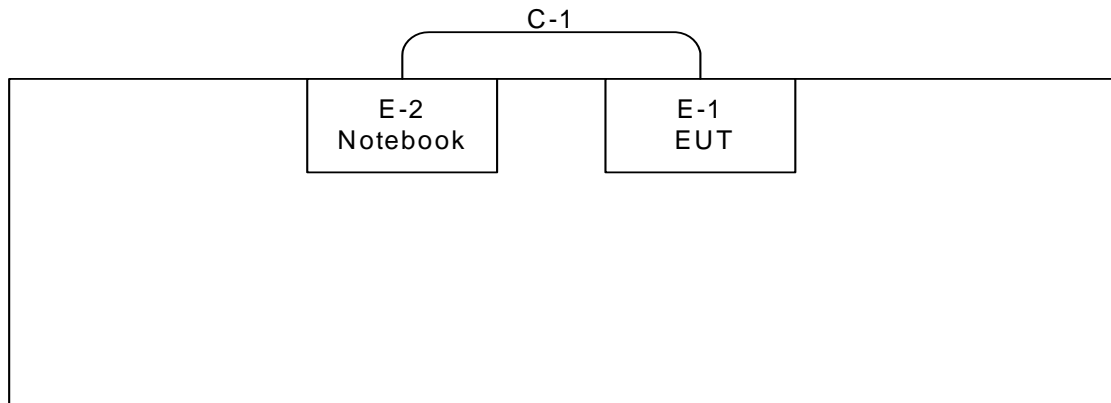
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test software version	Bluetooth		
Frequency	2402MHz	2440 MHz	2480MHz
GFSK-1Mbps	1	1	1



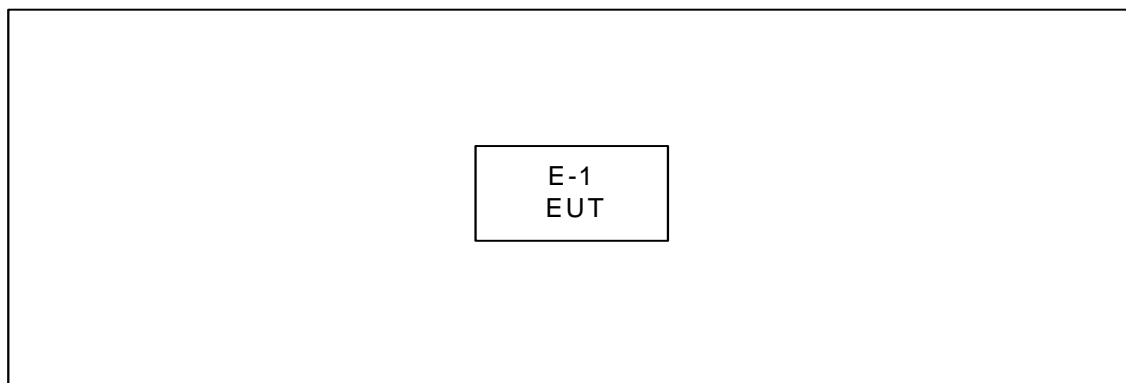
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted:



C-1: USB Cable

Radiated:





3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	SLIDING BLUETOOTH GAMEPAD	Bladepad	KRGCT02-Bladepad	2AAD7KRGCT-B LADEPAD	N/A	EUT
E-2	Notebook	Lenovo	M495A-AEI	DOC	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.8m	

Note:

- (1) For detachable type I/O cable should be specified the length in m in 『Length』 column.



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Until
1	LISN	EMCO	3816/2	00052765	Apr. 25, 2014
2	LISN	R&S	ENV216	100087	Nov.16.2013
3	Test Cable	N/A	C_17	N/A	Mar.15.2014
4	EMI TEST RECEIVER	R&S	ESCS30	826547/022	Apr. 25, 2014
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Apr. 25, 2014

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

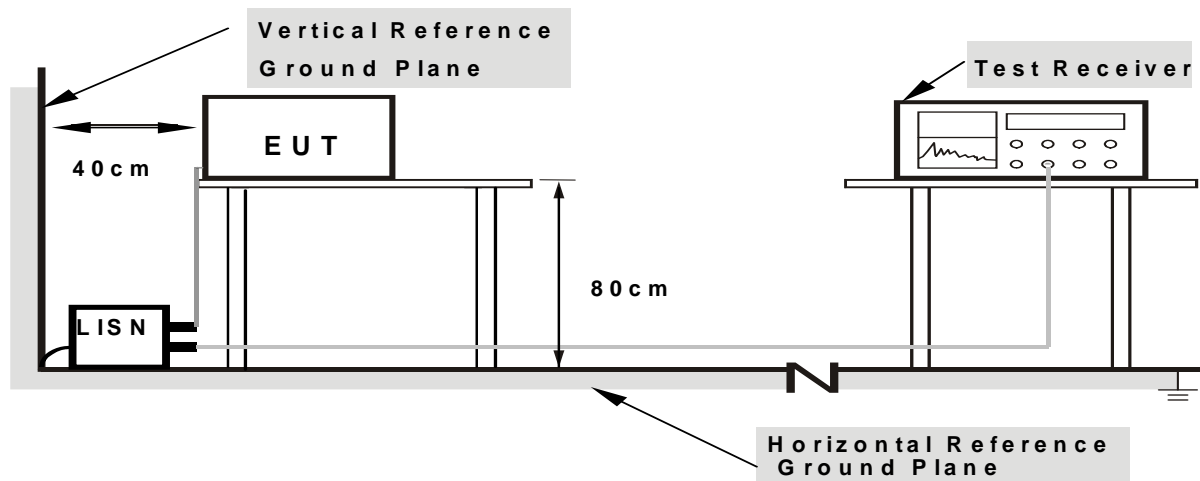
4.1.3 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

4.1.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT was programmed to be in continuously transmitting mode.



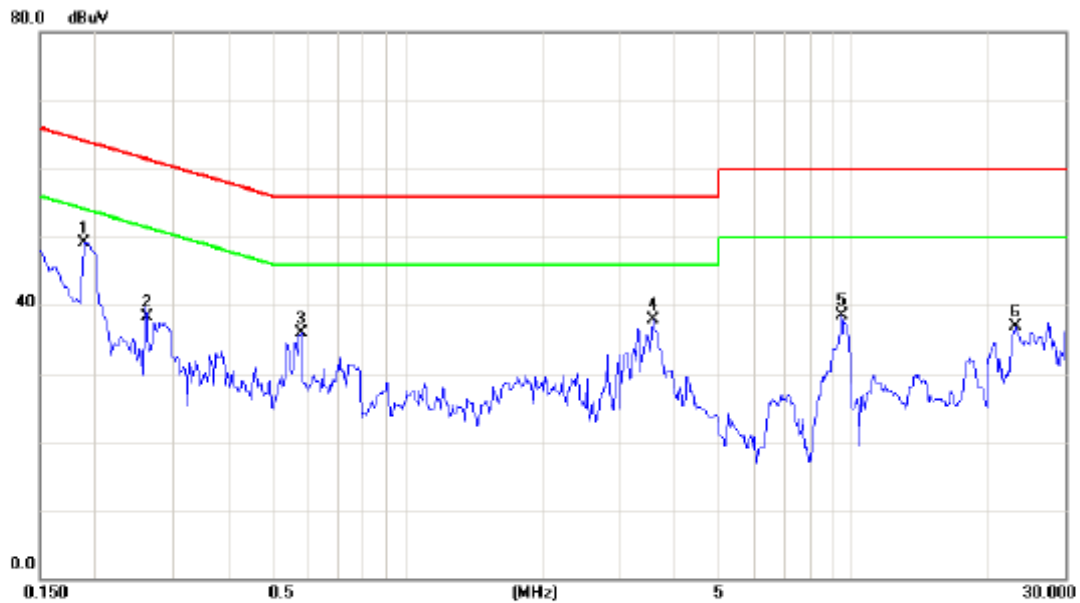
4.1.7 TEST RESULTS

Remark

- (1) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “ * ” marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.
- (3) “ N/A ” denotes test is not applicable in this test report.



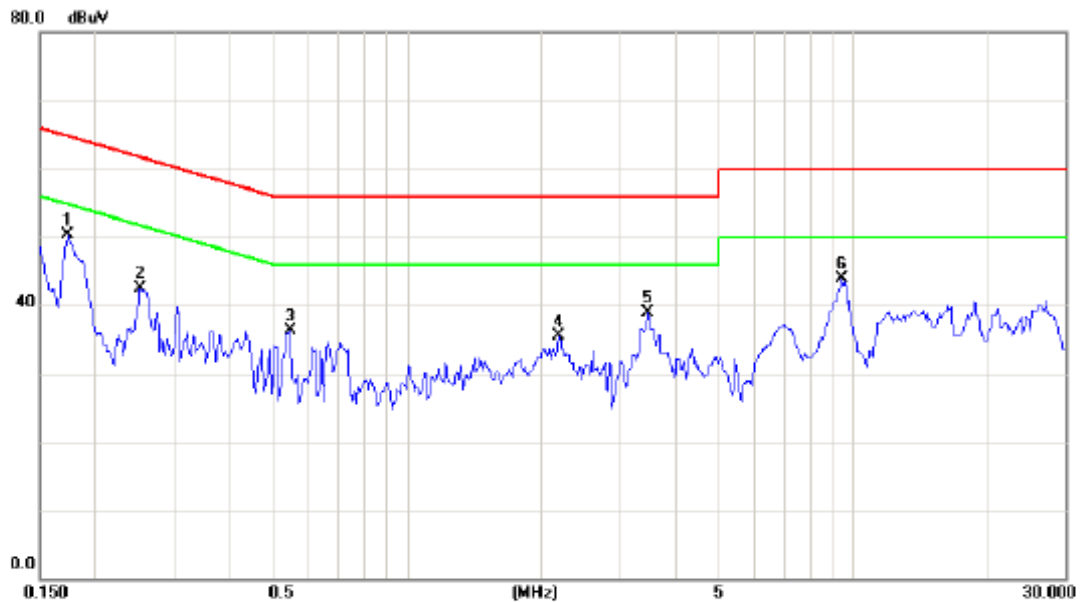
EUT:	SLIDING BLUETOOTH GAMEPAD	Model Name:	KRGCT02-Bladepad
Temperature:	24 °C	Relative Humidity:	56 %
Test Power:	AC 120V/60Hz	Phase:	Line
Test Mode:	Bluetooth		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1884	39.35	9.72	49.07	64.11	-15.04	peak	
2		0.2604	28.56	9.73	38.29	61.42	-23.13	peak	
3		0.5800	26.23	9.75	35.98	56.00	-20.02	peak	
4		3.5578	28.04	9.90	37.94	56.00	-18.06	peak	
5		9.4405	28.37	10.05	38.42	60.00	-21.58	peak	
6		23.1344	26.58	10.33	36.91	60.00	-23.09	peak	



EUT:	SLIDING BLUETOOTH GAMEPAD	Model Name:	KRGCT02-Bladepad
Temperature:	24 °C	Relative Humidity:	56 %
Test Power:	AC 120V/60Hz	Phase:	Neutral
Test Mode:	Bluetooth		



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1	*	0.1734	40.56	9.72	50.28	64.80	-14.52	peak	
2		0.2521	32.85	9.73	42.58	61.69	-19.11	peak	
3		0.5484	26.55	9.75	36.30	56.00	-19.70	peak	
4		2.1930	25.61	9.88	35.49	56.00	-20.51	peak	
5		3.4727	29.04	9.91	38.95	56.00	-17.05	peak	
6		9.4727	33.75	10.07	43.82	60.00	-16.18	peak	



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9KHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	(dBuV/m) (at 3m)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower



4.2.2 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Apr. 25, 2014
2	Amplifier	HP	8447D	2944A09673	Apr. 25, 2014
3	Test Receiver	R&S	ESCI	100382	Apr. 25, 2014
4	Test Cable	N/A	C-01_CB03	N/A	Jun.30.2013
5	Antenna	ETS	3115	00075789	Apr. 25, 2014
6	Amplifier	Agilent	8449B	3008A02274	Apr. 25, 2014
7	Spectrum	Agilent	E4408B	US39240143	Nov. 16.2013
8	Test Cable	HUBER+SUHNER	C-45	N/A	Apr. 30, 2014
9	Controller	CT	SC100	N/A	N/A
10	Horn Antenna	EMCO	3115	9605-4803	May.25.2013
11	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Apr. 25, 2014
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Oct.12.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz for PK/AVG detector
Start ~ Stop Frequency	90kHz~110kHz for QP detector
Start ~ Stop Frequency	110kHz~490kHz for PK/AVG detector
Start ~ Stop Frequency	490kHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector



4.2.3 TEST PROCEDURE

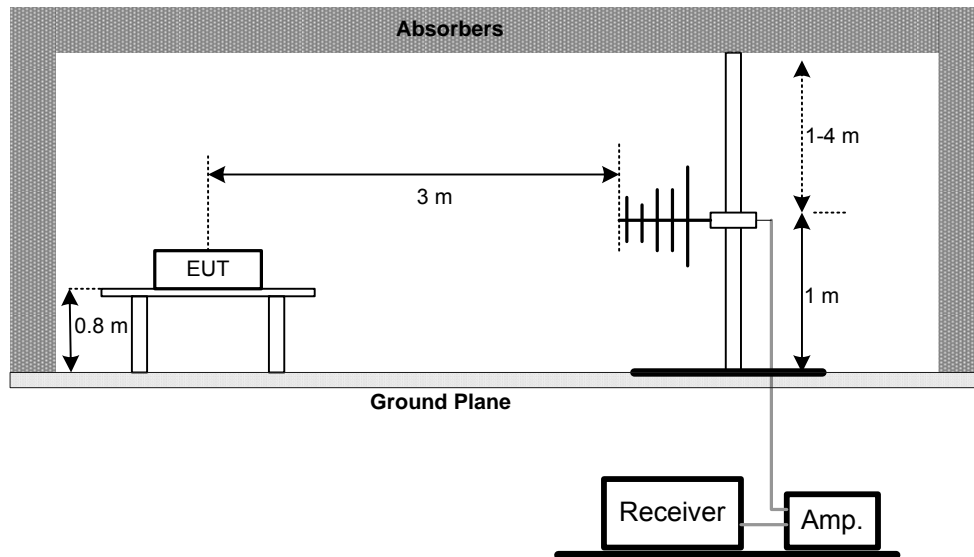
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.4 DEVIATION FROM TEST STANDARD

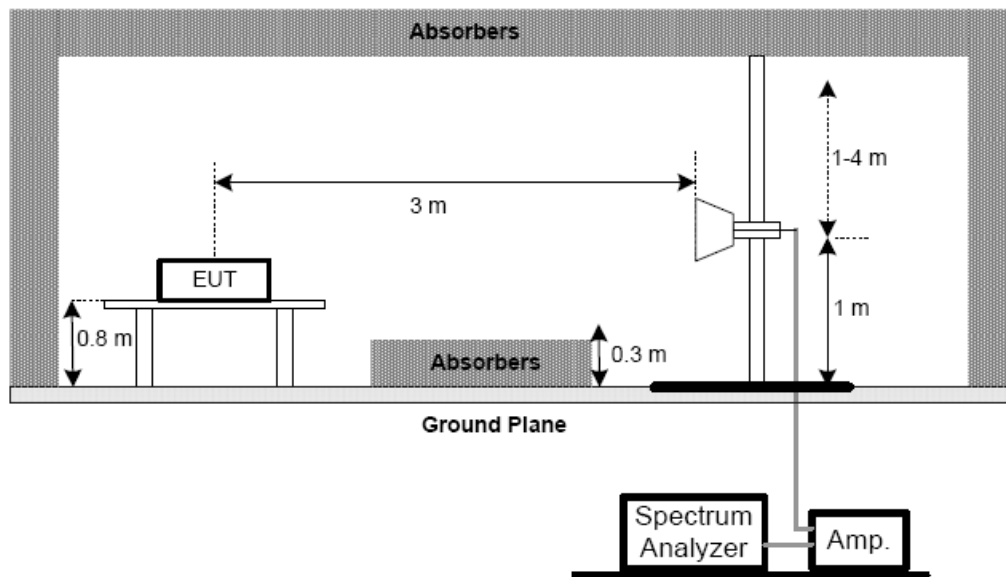
No deviation

4.2.5 TEST SETUP

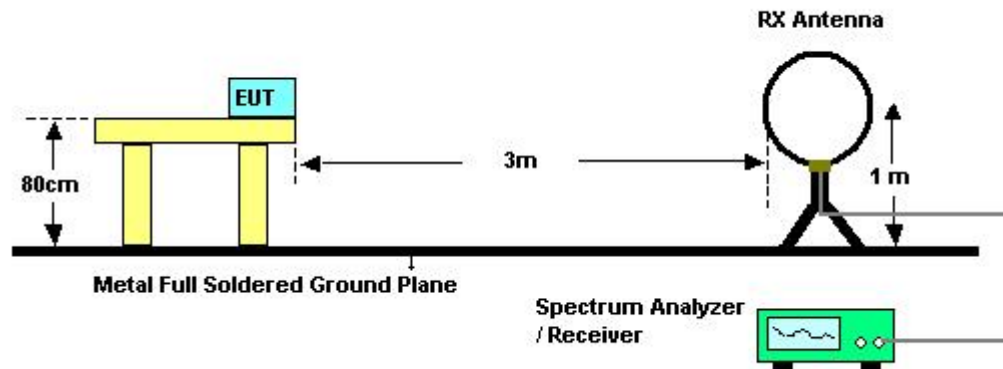
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(C) For radiated emissions below 30MHz



4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.



4.2.7 TEST RESULTS (BELOW 30MHZ)

EUT :	SLIDING BLUETOOTH GAMEPAD	Model Name :	KRGCT02-Bladepad
Temperature :	24° C	Relative Humidity :	56 %
Test Voltage :	DC 3.7V		
Test Mode :	TX 2402MHz –CH00-1Mbps		

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0095	0°	20.52	24.30	44.82	128.04	-83.22	AVG
0.0095	0°	21.37	24.30	45.67	148.04	-102.37	PK
0.0237	0°	19.75	24.06	43.81	120.10	-76.29	AVG
0.0237	0°	21.38	24.06	45.44	140.10	-94.66	PK
0.0378	0°	19.83	23.17	43.00	116.06	-73.05	AVG
0.0378	0°	22.28	23.17	45.45	136.06	-90.60	PK
0.0637	0°	18.71	22.13	40.84	111.52	-70.69	AVG
0.0637	0°	24.15	22.13	46.28	131.52	-85.25	PK
0.2513	0°	24.38	20.40	44.78	99.60	-54.82	AVG
0.2513	0°	24.83	20.40	45.23	119.60	-74.37	PK
1.3672	0°	25.10	19.56	44.66	64.89	-20.22	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0093	90°	17.27	24.30	41.57	128.21	-86.64	AVG
0.0093	90°	21.63	24.30	45.93	148.21	-102.28	PK
0.0259	90°	16.31	23.93	40.24	119.35	-79.11	AVG
0.0259	90°	20.67	23.93	44.60	139.35	-94.75	PK
0.0348	90°	19.82	23.37	43.19	116.79	-73.60	AVG
0.0348	90°	21.34	23.37	44.71	136.79	-92.08	PK
0.0646	90°	21.86	22.11	43.97	111.40	-67.44	AVG
0.0646	90°	23.79	22.11	45.90	131.40	-85.51	PK
0.2362	90°	21.46	20.43	41.89	100.14	-58.25	AVG
0.2362	90°	23.34	20.43	43.77	120.14	-76.37	PK
1.2769	90°	25.67	19.57	45.24	65.48	-20.24	QP

Remark :

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported °
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB); °
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor. °



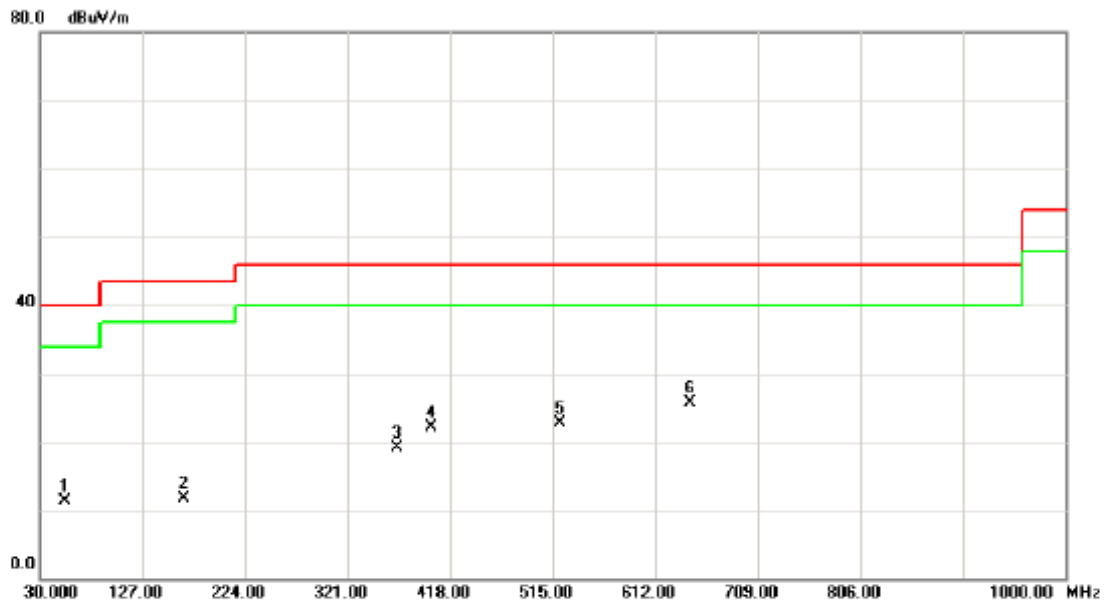
4.2.8 TEST RESULTS-BETWEEN 30MHZ AND 1000MHZ

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.



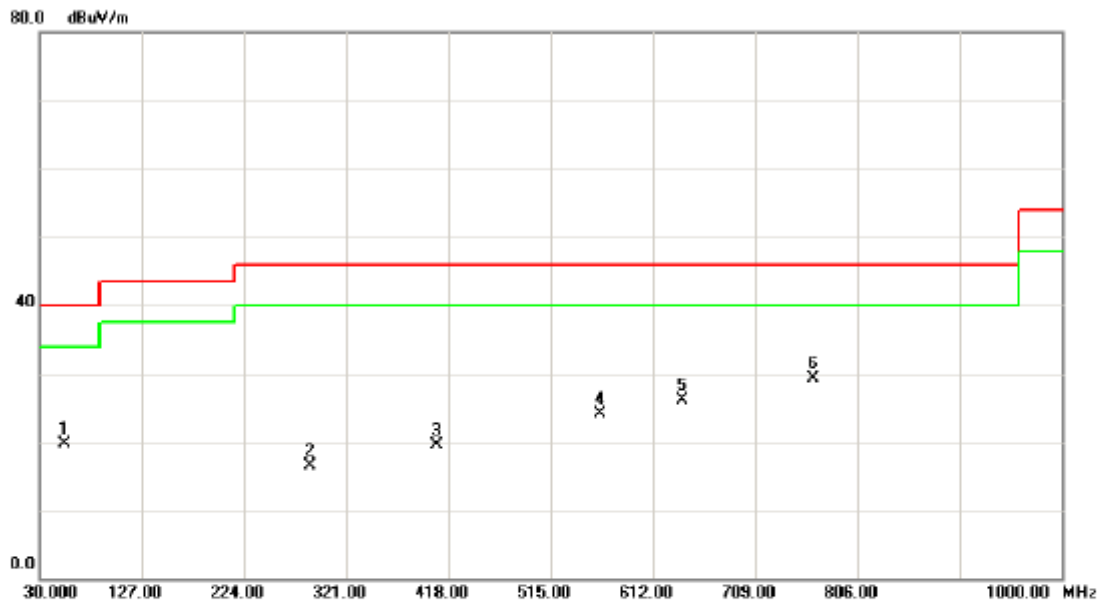
EUT:	SLIDING BLUETOOTH GAMEPAD	Model Name:	KRGCT02-Bladepad
Temperature:	24 °C	Relative Humidity:	56 %
Test Power:	DC 3.7V	Phase:	Vertical
Test Mode:	TX 2402MHz –CH00-1Mbps		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		54.2500	29.00	-17.63	11.37	40.00	-28.63	peak	
2		166.7700	29.38	-17.74	11.64	43.50	-31.86	peak	
3		367.5600	30.02	-10.92	19.10	46.00	-26.90	peak	
4		400.5400	31.87	-9.80	22.07	46.00	-23.93	peak	
5		521.7900	30.40	-7.61	22.79	46.00	-23.21	peak	
6	*	644.9800	30.49	-4.76	25.73	46.00	-20.27	peak	



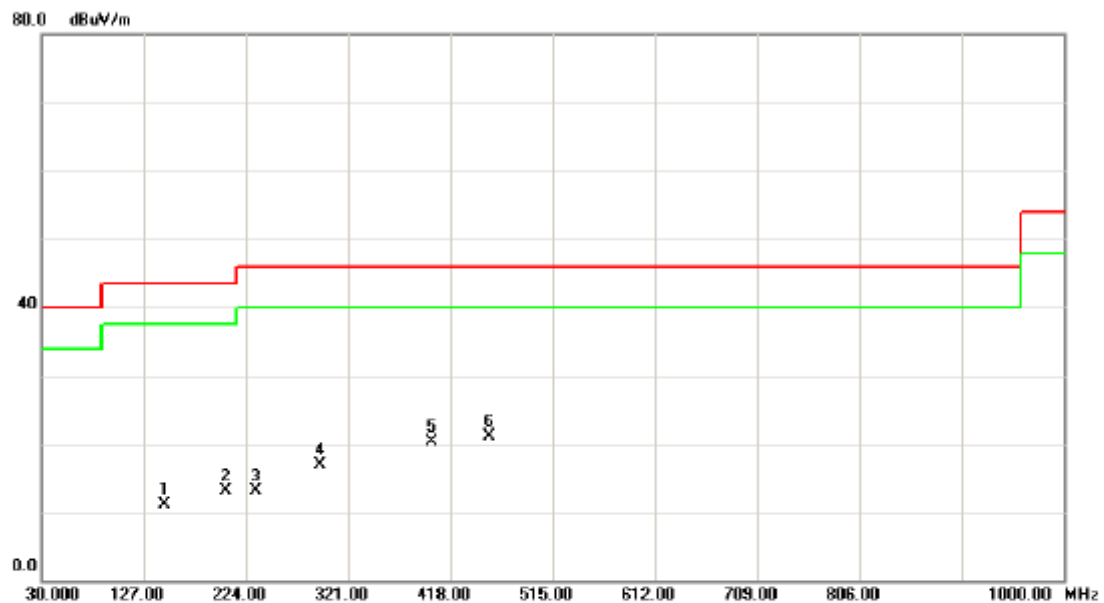
EUT:	SLIDING BLUETOOTH GAMEPAD	Model Name:	KRGCT02-Bladepad
Temperature:	24 °C	Relative Humidity:	56 %
Test Power:	DC 3.7V	Phase:	Horizontal
Test Mode:	TX 2402MHz –CH00-1Mbps		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		54.2500	37.36	-17.63	19.73	40.00	-20.27	peak	
2		286.0800	29.33	-12.84	16.49	46.00	-29.51	peak	
3		407.3300	29.18	-9.70	19.48	46.00	-26.52	peak	
4		561.5600	30.39	-6.35	24.04	46.00	-21.96	peak	
5		640.1300	30.86	-4.83	26.03	46.00	-19.97	peak	
6	*	764.2900	33.33	-4.06	29.27	46.00	-16.73	peak	



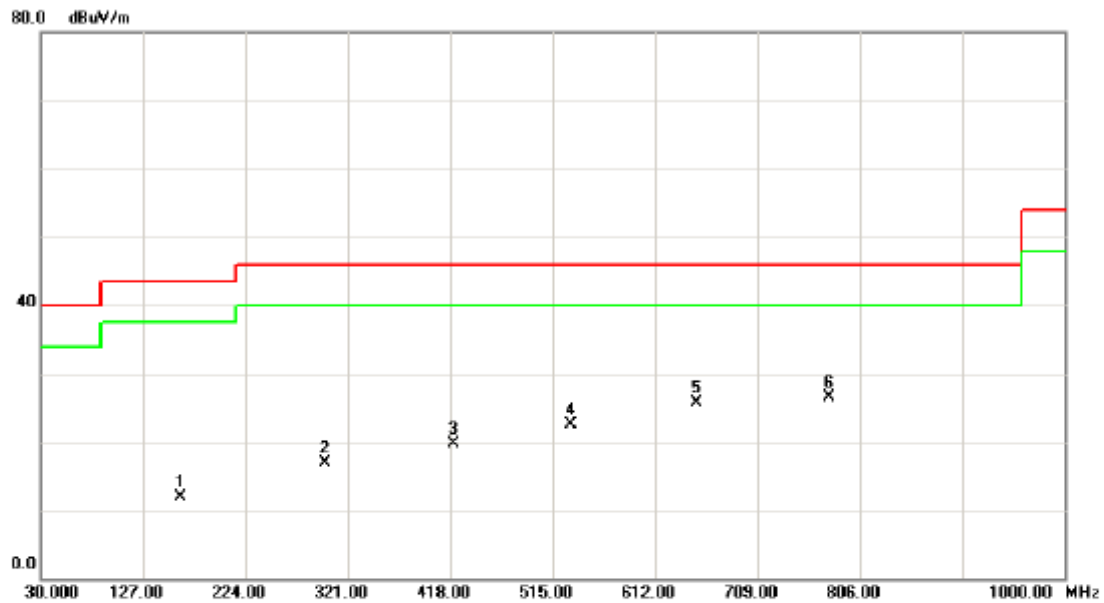
EUT:	SLIDING BLUETOOTH GAMEPAD	Model Name:	KRGCT02-Bladepad
Temperature:	24 °C	Relative Humidity:	56 %
Test Power:	DC 3.7V	Phase:	Vertical
Test Mode:	TX 2440MHz –CH19-1Mbps		



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	147.3700	29.06	-17.88	11.18	43.50	-32.32	peak	
2	205.5700	29.97	-16.84	13.13	43.50	-30.37	peak	
3	233.7000	29.10	-15.92	13.18	46.00	-32.82	peak	
4	293.8400	29.54	-12.62	16.92	46.00	-29.08	peak	
5	400.5400	30.03	-9.80	20.23	46.00	-25.77	peak	
6 *	454.8600	30.04	-8.93	21.11	46.00	-24.89	peak	



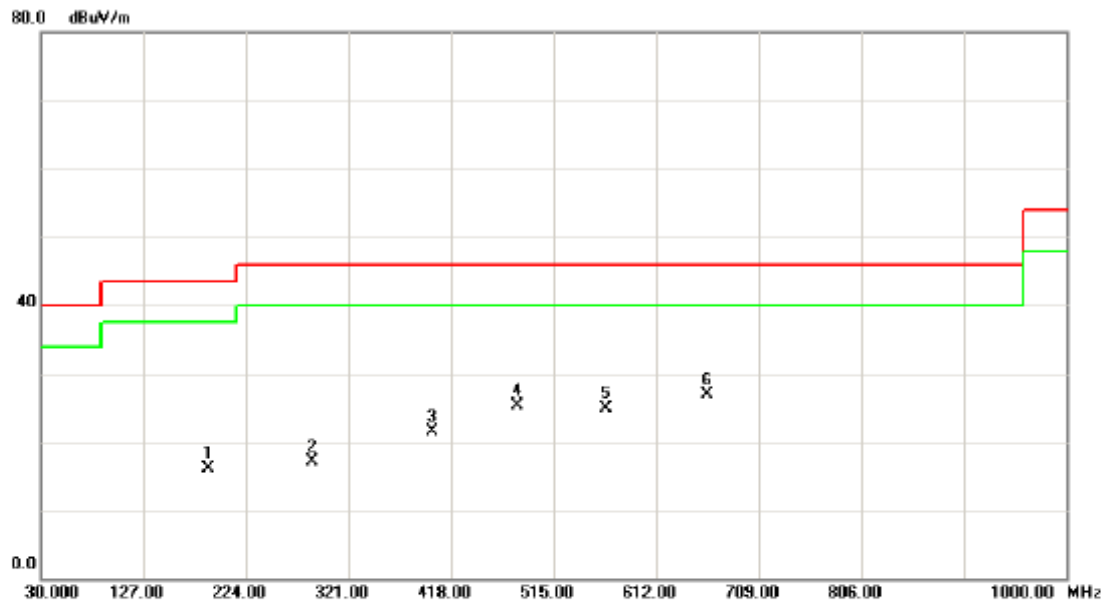
EUT:	SLIDING BLUETOOTH GAMEPAD	Model Name:	KRGCT02-Bladepad
Temperature:	24 °C	Relative Humidity:	56 %
Test Power:	DC 3.7V	Phase:	Horizontal
Test Mode:	TX 2440MHz –CH19-1Mbps		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		161.9200	29.79	-17.91	11.88	43.50	-31.62	peak	
2		299.6600	29.53	-12.65	16.88	46.00	-29.12	peak	
3		420.9100	29.15	-9.48	19.67	46.00	-26.33	peak	
4		532.4600	29.73	-7.23	22.50	46.00	-23.50	peak	
5		651.7700	30.39	-4.68	25.71	46.00	-20.29	peak	
6	*	776.9000	30.37	-3.91	26.46	46.00	-19.54	peak	



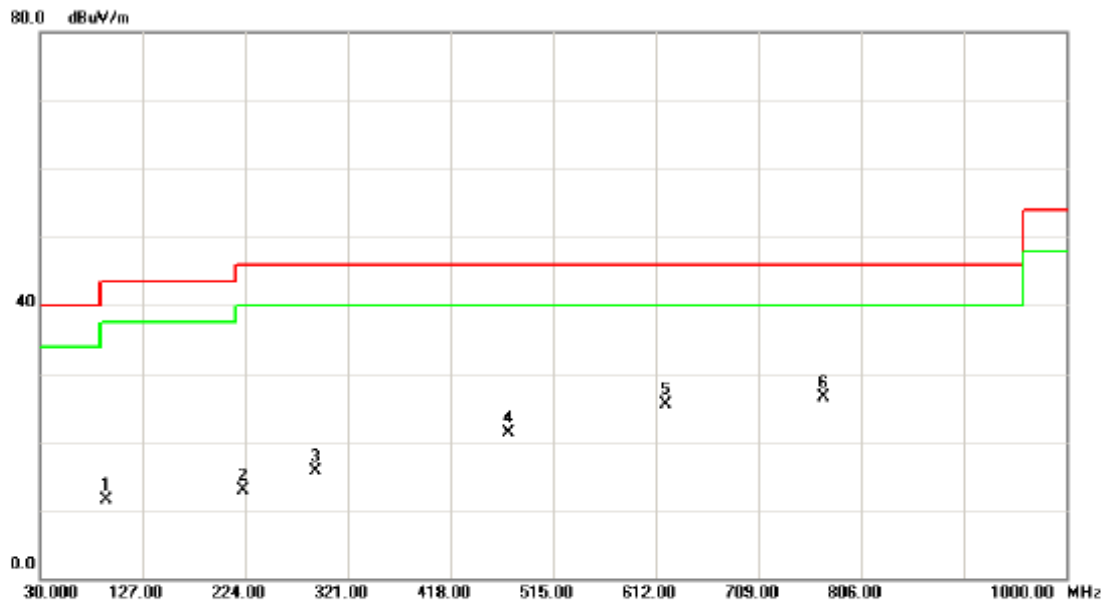
EUT:	SLIDING BLUETOOTH GAMEPAD	Model Name:	KRGCT02-Bladepad
Temperature:	24 °C	Relative Humidity:	56 %
Test Power:	DC 3.7V	Phase:	Vertical
Test Mode:	TX 2480MHz –CH39-1Mbps		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		188.1100	33.18	-17.13	16.05	43.50	-27.45	peak	
2		287.0500	29.87	-12.77	17.10	46.00	-28.90	peak	
3		400.5400	31.31	-9.80	21.51	46.00	-24.49	peak	
4		481.0500	34.03	-8.63	25.40	46.00	-20.60	peak	
5		564.4700	31.15	-6.28	24.87	46.00	-21.13	peak	
6	*	660.5000	31.58	-4.67	26.91	46.00	-19.09	peak	



EUT:	SLIDING BLUETOOTH GAMEPAD	Model Name:	KRGCT02-Bladepad
Temperature:	24 °C	Relative Humidity:	56 %
Test Power:	DC 3.7V	Phase:	Horizontal
Test Mode:	TX 2480MHz –CH39-1Mbps		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		93.0500	30.35	-18.91	11.44	43.50	-32.06	peak	
2		222.0600	29.14	-16.27	12.87	46.00	-33.13	peak	
3		290.9300	28.36	-12.61	15.75	46.00	-30.25	peak	
4		472.3200	30.08	-8.73	21.35	46.00	-24.65	peak	
5		621.7000	30.61	-5.13	25.48	46.00	-20.52	peak	
6	*	770.1100	30.45	-4.00	26.45	46.00	-19.55	peak	



4.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	SLIDING BLUETOOTH GAMEPAD	Model Name :	KRGCT02-Bladepad
Temperature :	23 °C	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402MHz – CH 00-1Mbps		

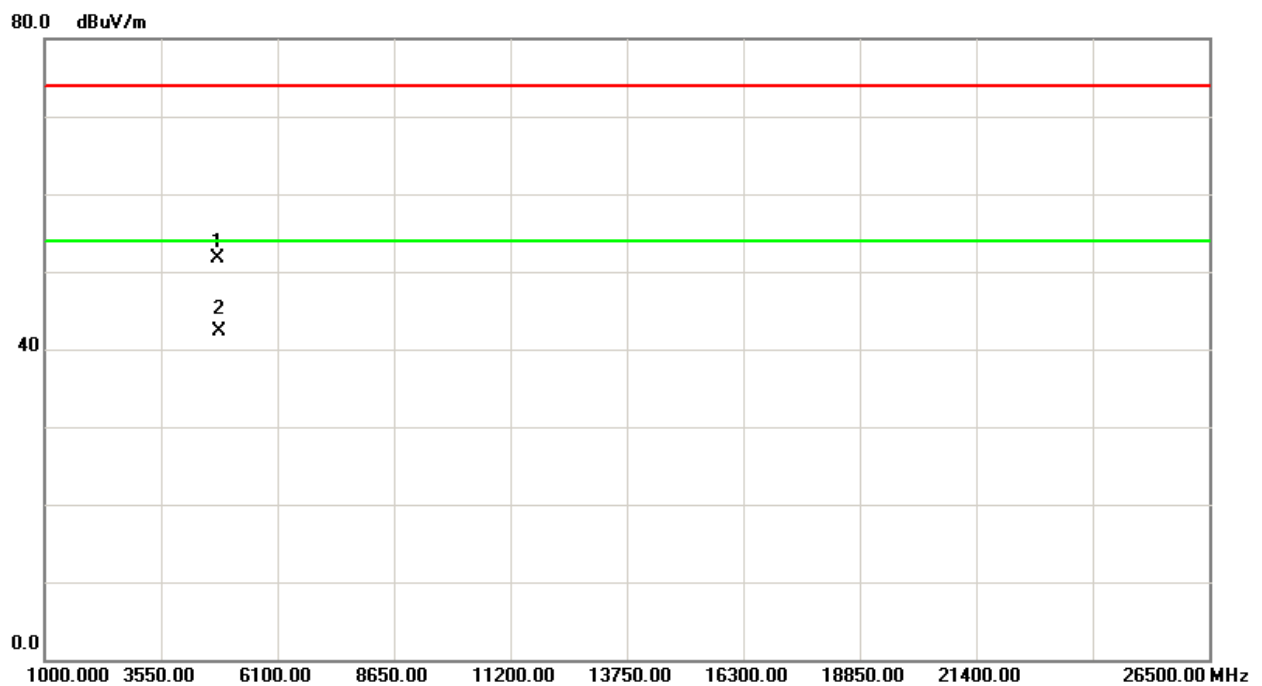
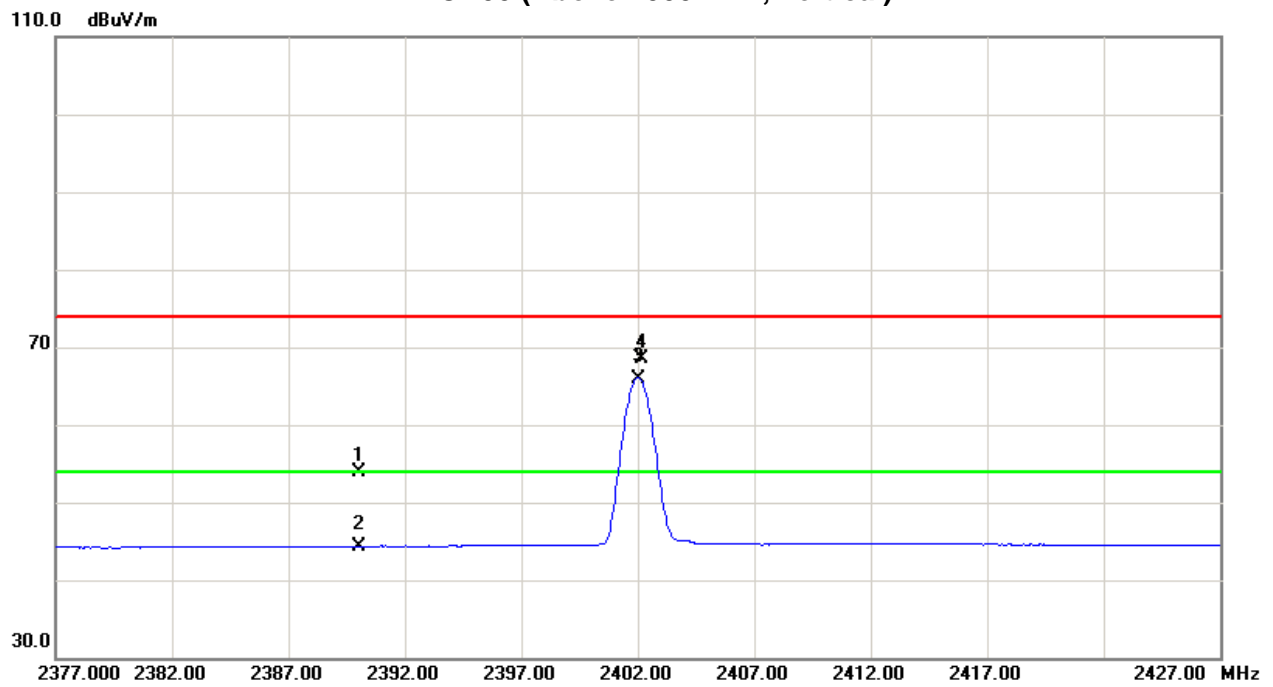
Freq. (MHz)	Ant. Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	21.62	12.08	32.28	53.90	44.36	74.00	54.00	X/E
2402.15	V	36.16	33.67	32.27	68.43	65.94			X/F
4803.85	V	45.63	36.25	6.11	51.74	42.36	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna



TX CH00 (Above 1000 MHz, Vertical)





EUT :	SLIDING BLUETOOTH GAMEPAD	Model Name :	KRGCT02-Bladepad
Temperature :	23 °C	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402MHz – CH 00-1Mbps		

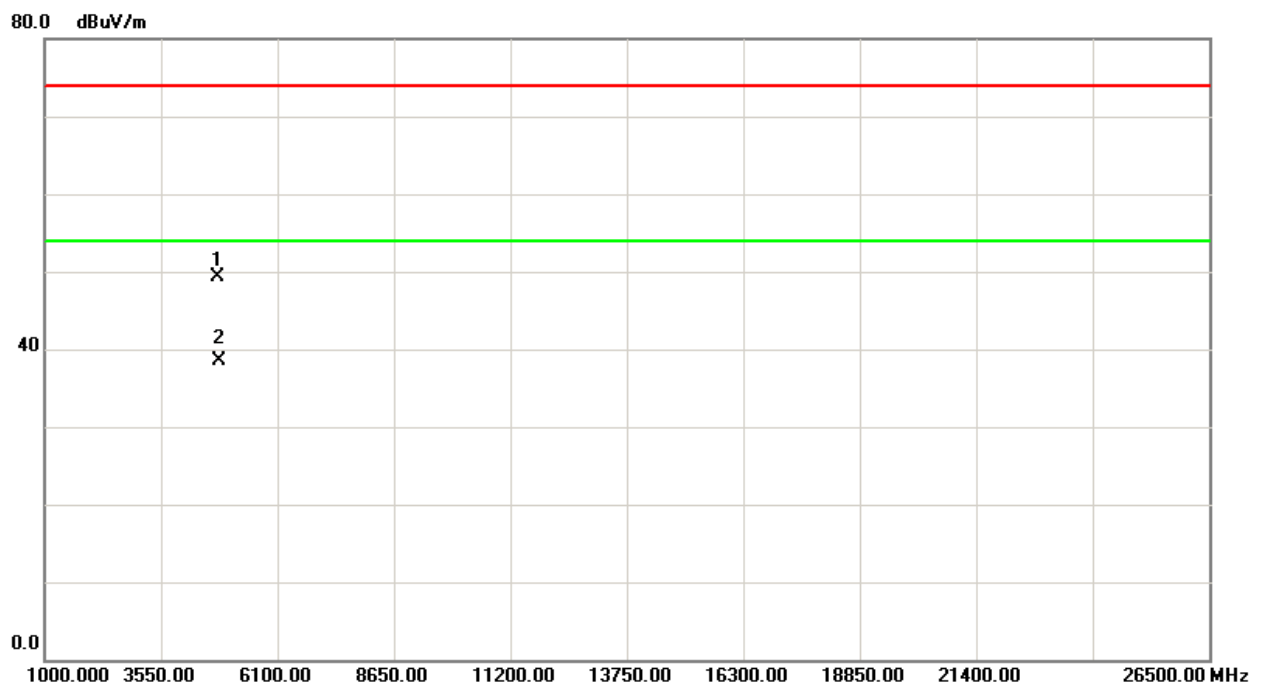
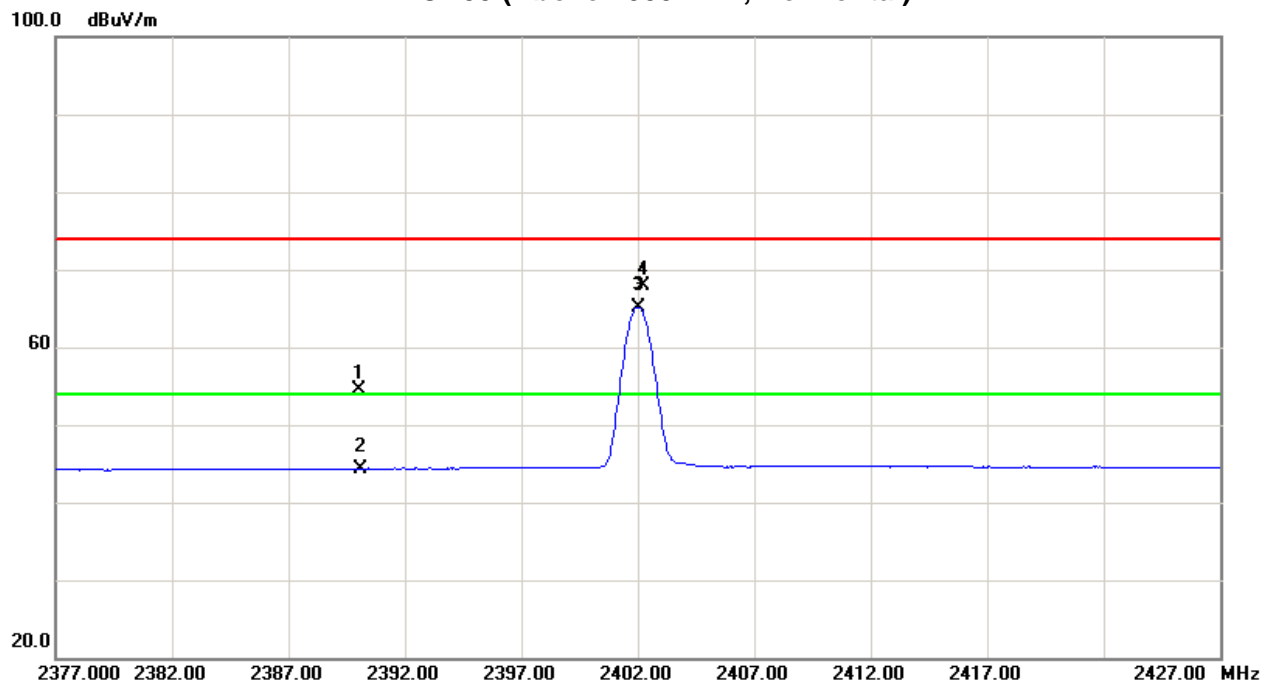
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	22.28	12.07	32.28	54.56	44.35	74.00	54.00	X/E
2402.20	H	35.65	32.90	32.27	67.92	65.17			X/F
4803.88	H	43.16	32.47	6.11	49.27	38.58	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna



TX CH00 (Above 1000 MHz, Horizontal)





EUT :	SLIDING BLUETOOTH GAMEPAD	Model Name :	KRGCT02-Bladepad
Temperature :	23 °C	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2440MHz –CH19-1Mbps		

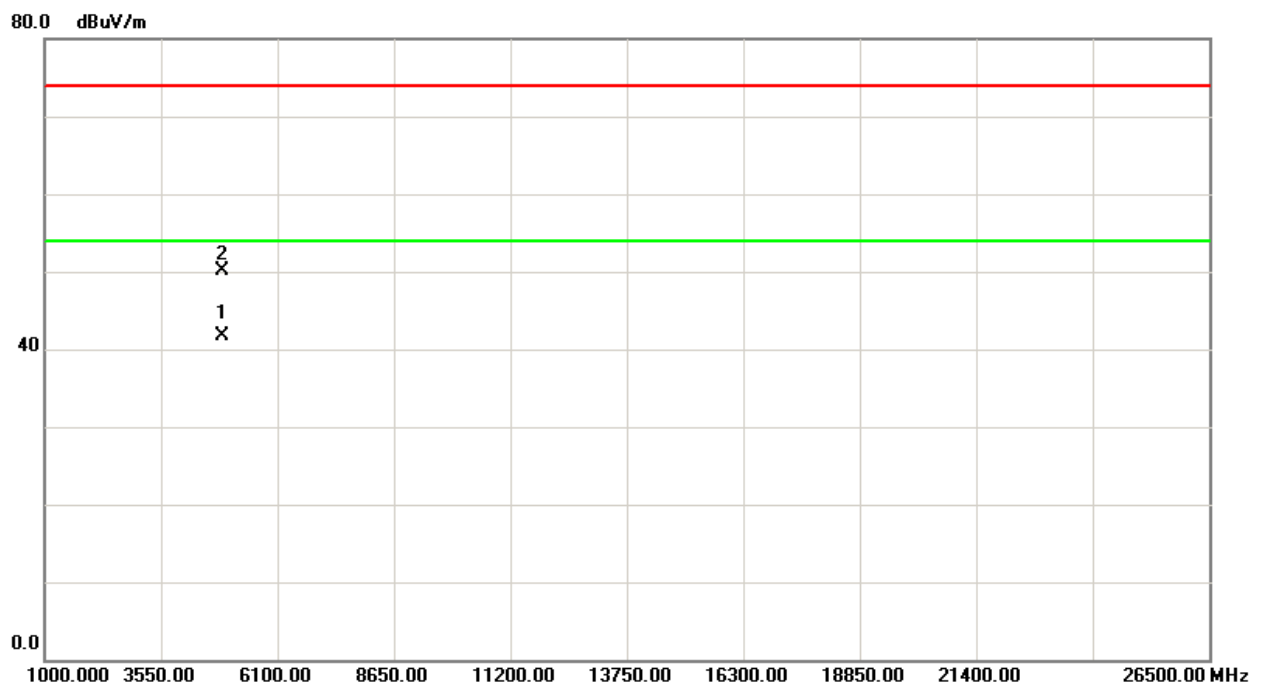
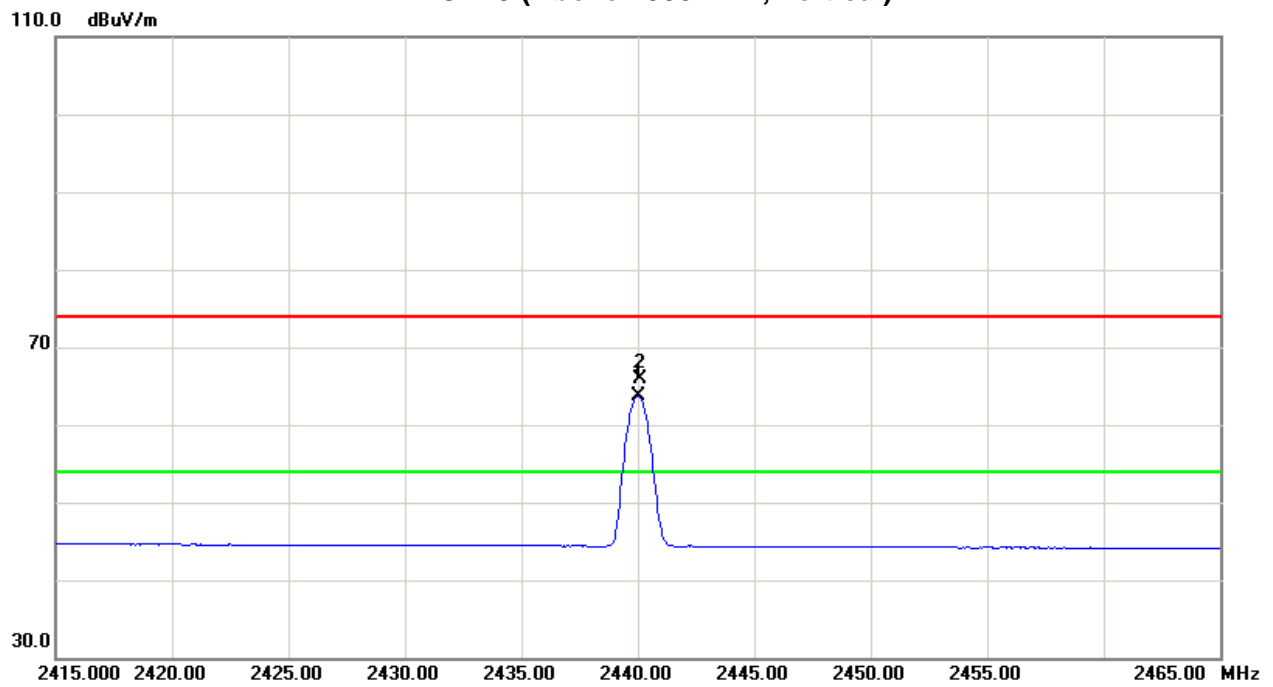
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.10	V	33.63	31.49	32.22	65.85	63.71			X/F
4880.03	V	43.76	35.26	6.42	50.18	41.68	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna



TX CH19 (Above 1000 MHz, Vertical)





EUT :	SLIDING BLUETOOTH GAMEPAD	Model Name :	KRGCT02-Bladepad
Temperature :	23 °C	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2440MHz –CH19-1Mbps		

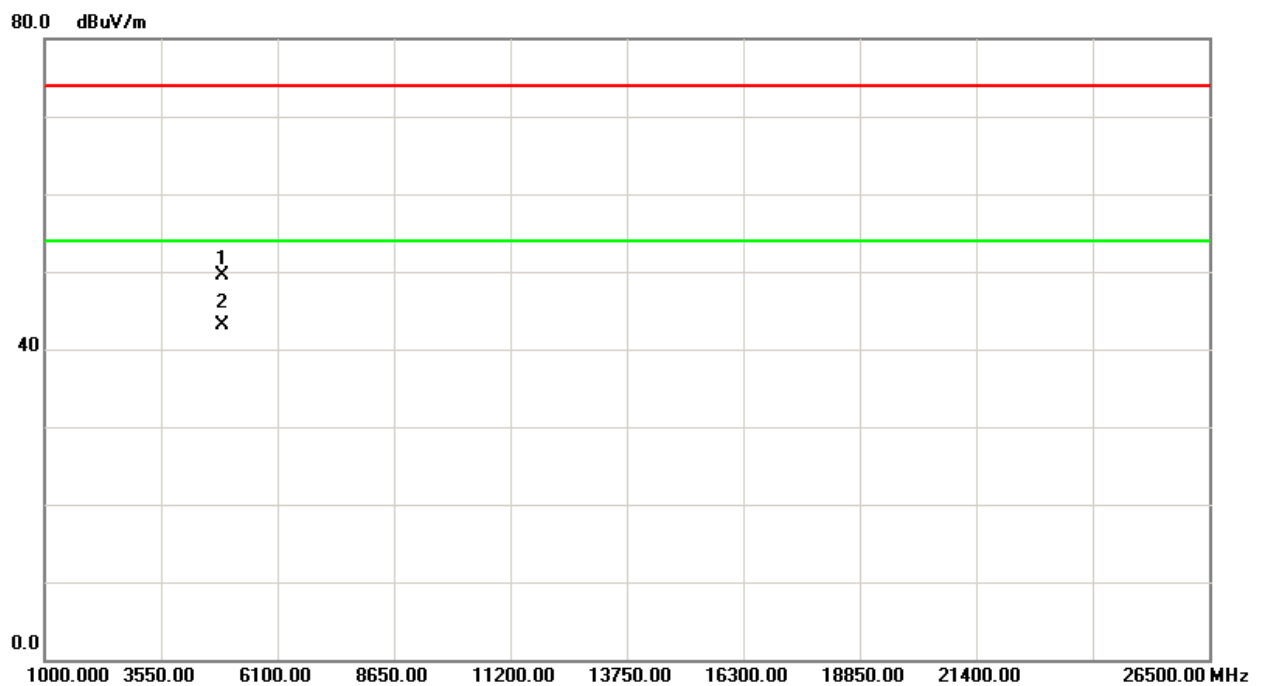
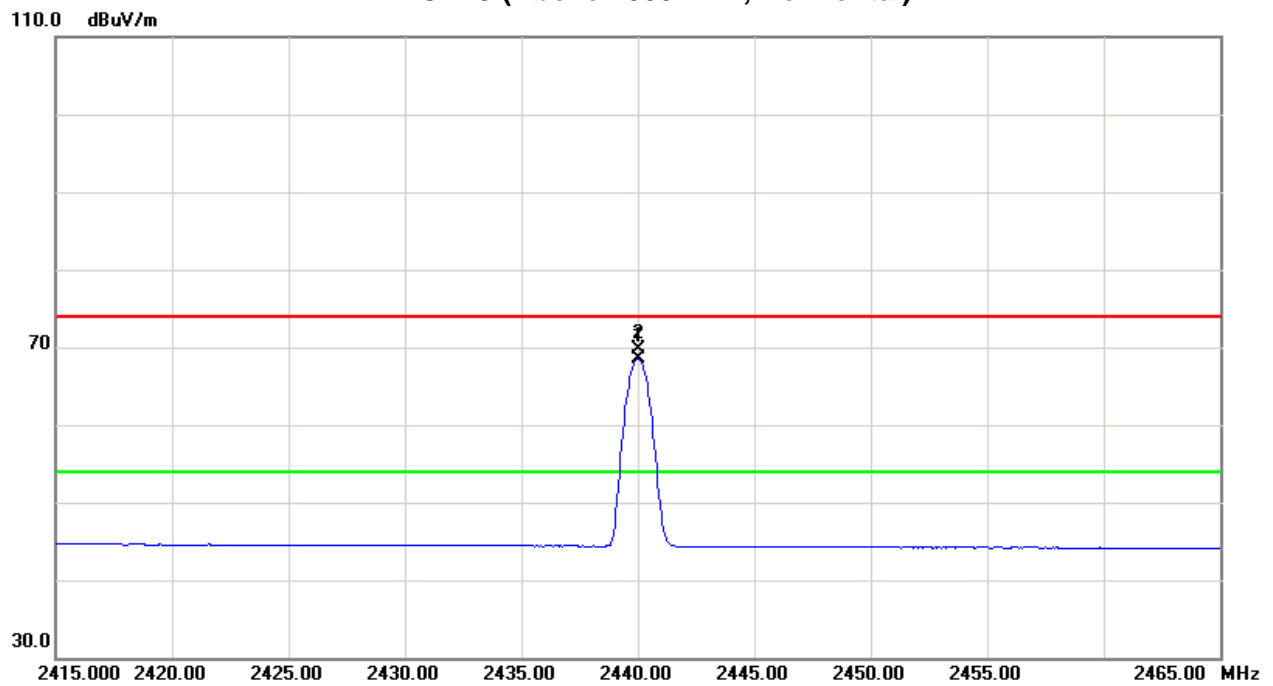
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.05	H	37.50	36.29	32.22	69.72	68.51			X/F
4879.86	H	43.11	36.71	6.42	49.53	43.13	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna



TX CH19 (Above 1000 MHz, Horizontal)





EUT :	SLIDING BLUETOOTH GAMEPAD	Model Name :	KRGCT02-Bladepad
Temperature :	23 °C	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2480MHz –CH39-1Mbps		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.00	V	33.42	31.29	32.18	65.60	63.47			X/F
2483.50	V	20.11	11.73	32.17	52.28	43.90	74.00	54.00	X/E
4960.08	V	44.55	39.62	6.74	51.29	46.36	74.00	54.00	X/H

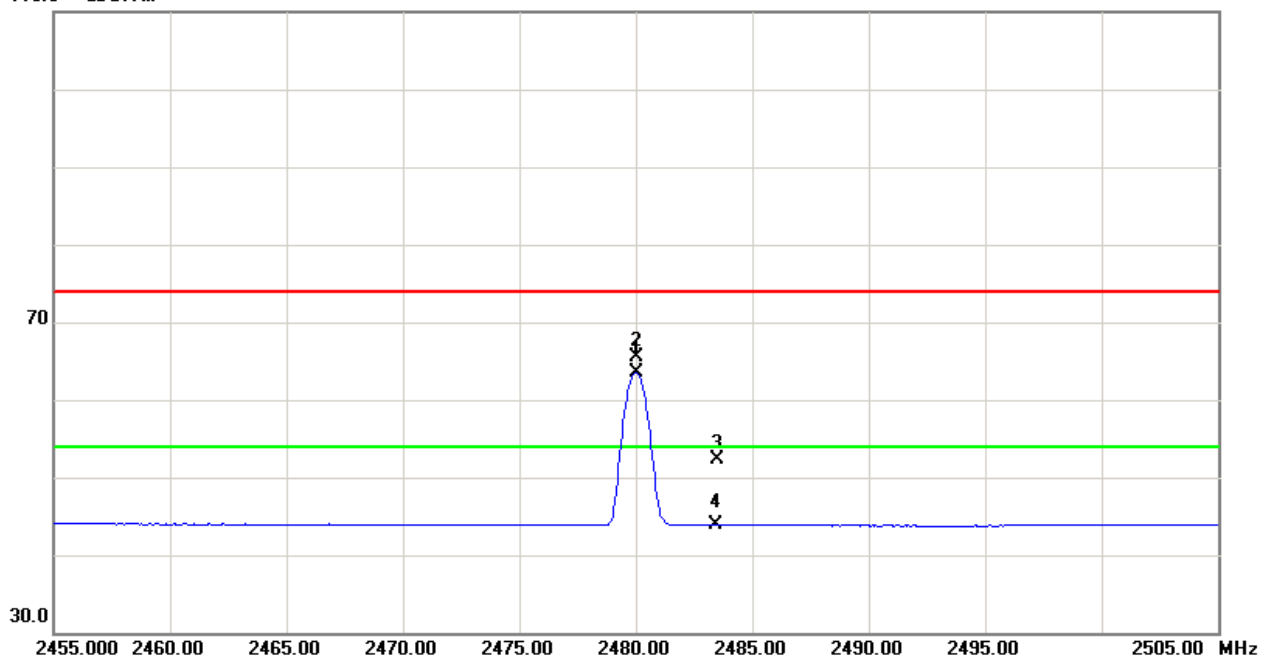
Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

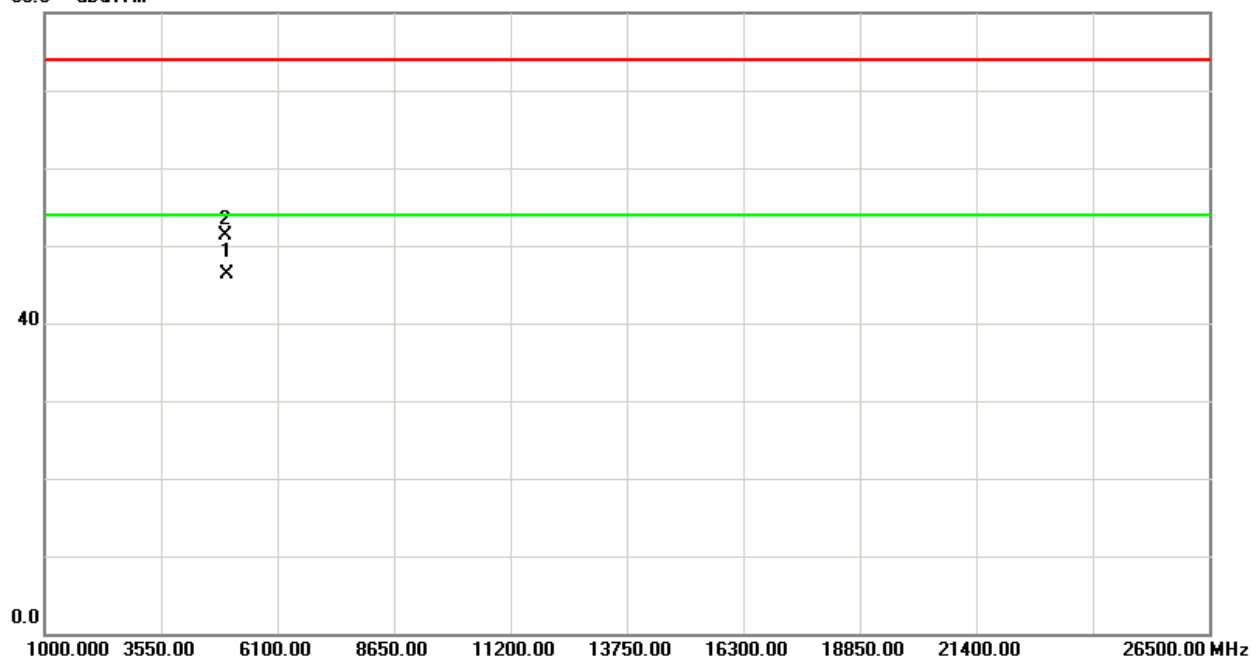


TX CH39 (Above 1000 MHz, Vertical)

110.0 dBuV/m



80.0 dBuV/m





EUT :	SLIDING BLUETOOTH GAMEPAD	Model Name :	KRGCT02-Bladepad
Temperature :	23 °C	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2480MHz –CH39-1Mbps		

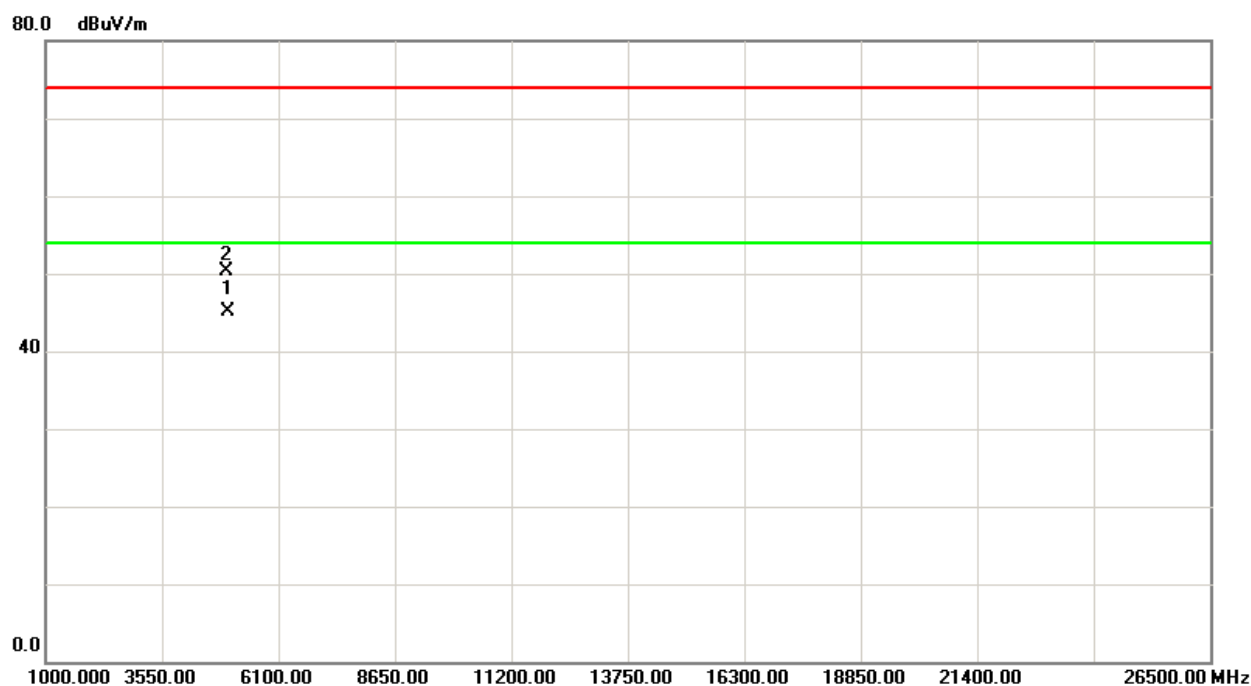
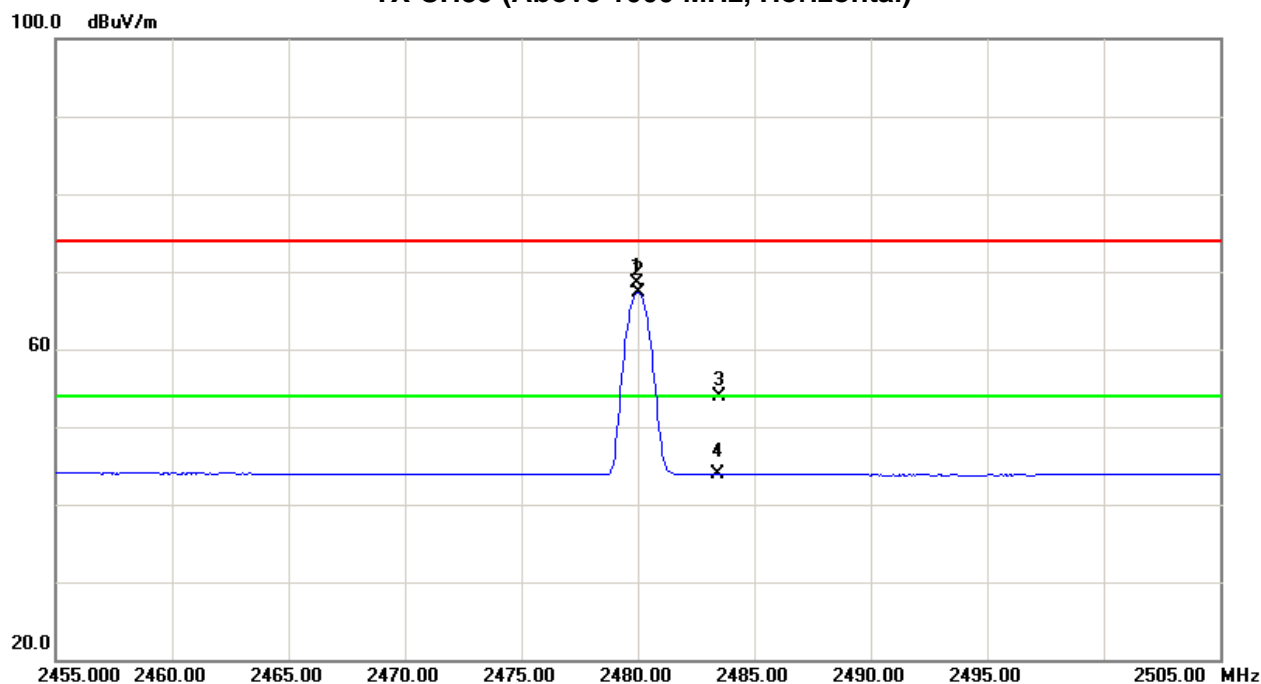
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2479.95	H	36.41	35.11	32.18	68.59	67.29			X/F
2483.50	H	21.79	11.73	32.17	53.96	43.90	74.00	54.00	X/E
4959.94	H	43.47	38.31	6.74	50.21	45.05	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ◦ "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna



TX CH39 (Above 1000 MHz, Horizontal)





5. BANDWIDTH TEST

5.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	2400-2483.5	PASS

5.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Until
1	Spectrum Analyzer	R&S	FSP_40	100185	Nov.16.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

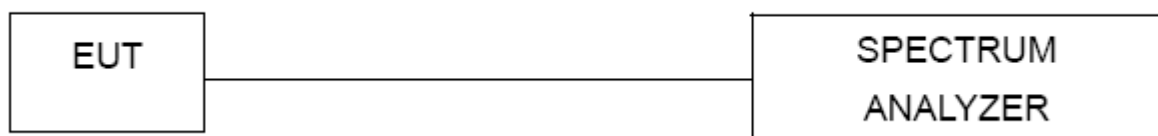
5.1.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP



5.1.5 EUT OPERATION CONDITIONS

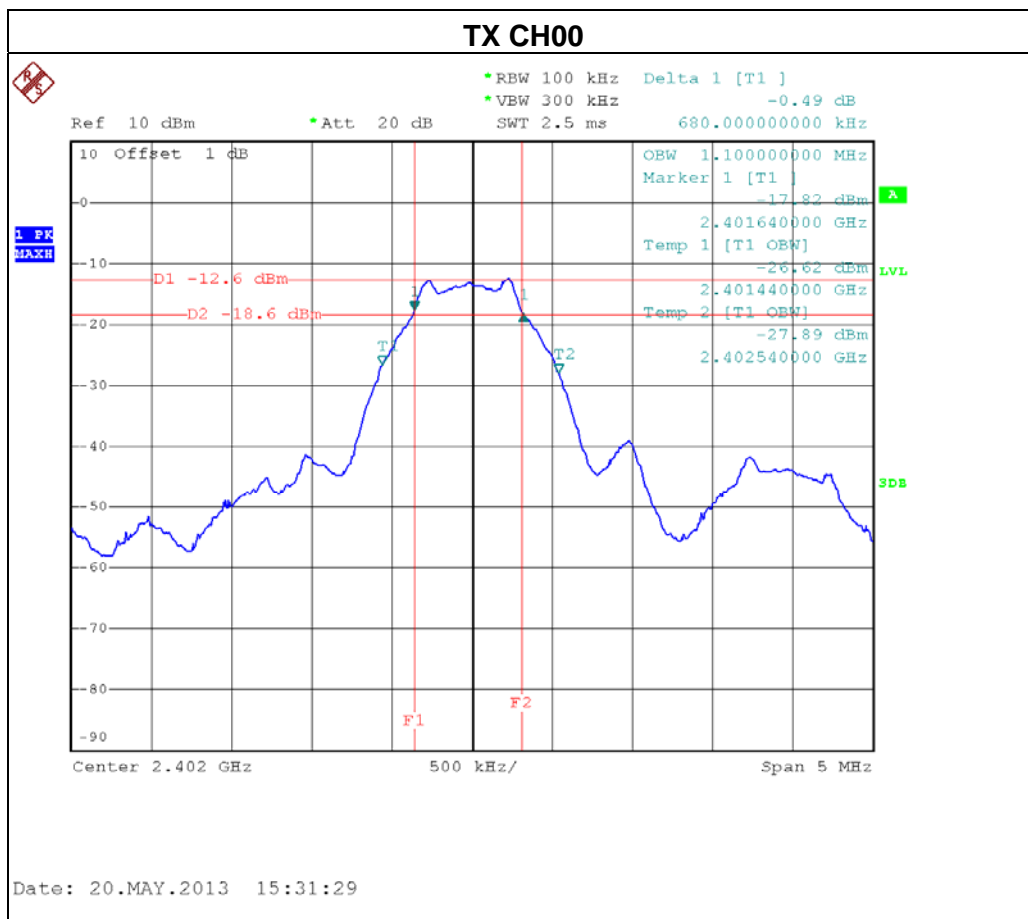
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

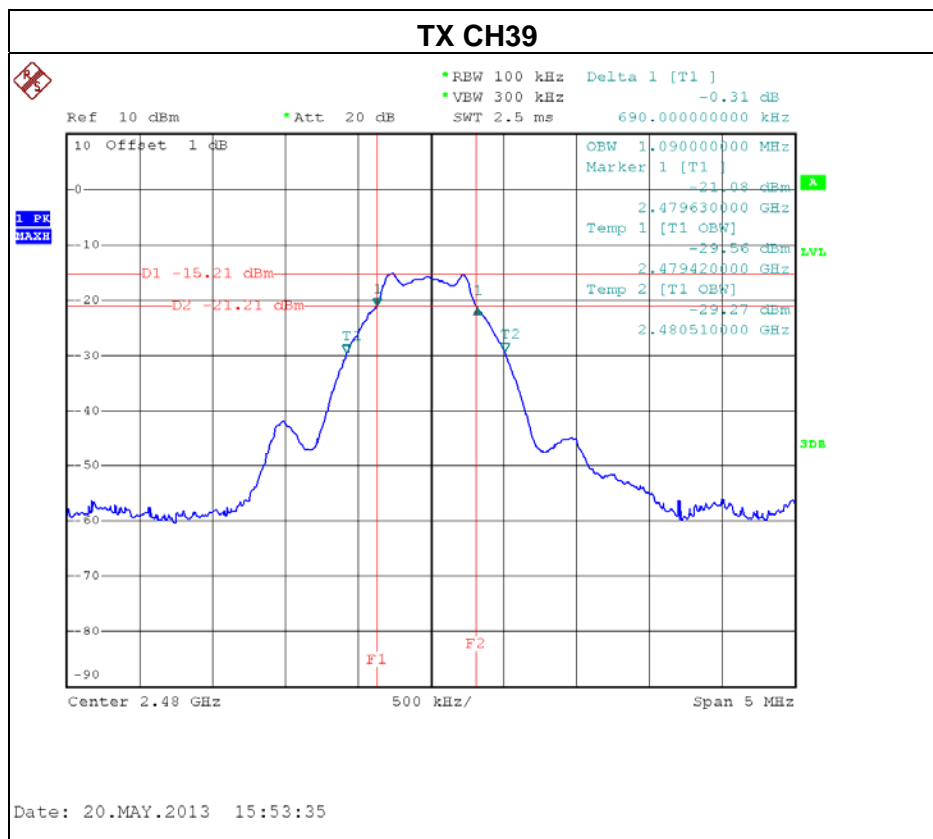
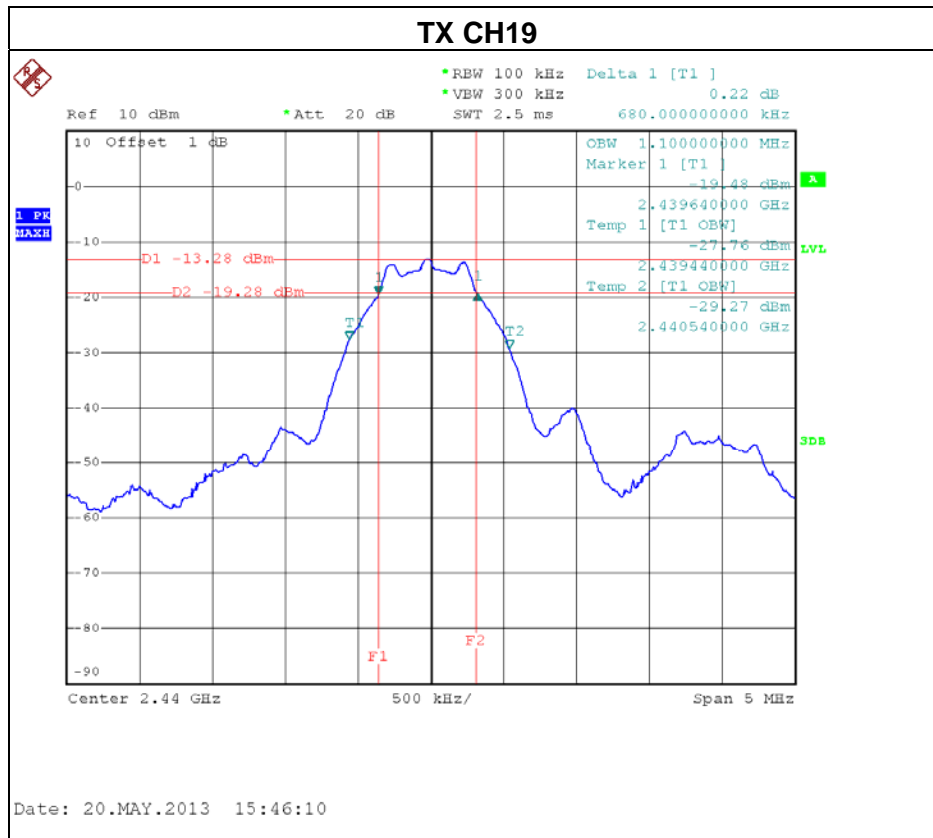


5.1.6 TEST RESULTS

EUT :	SLIDING BLUETOOTH GAMEPAD	Model Name. :	KRGCT02-Bladepad
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00, CH19, CH39 - 1Mbps		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	Test Result
CH00	2402MHz	0.68	Pass
CH19	2440MHz	0.68	Pass
CH39	2480MHz	0.69	Pass







6. MAXIMUM OUTPUT POWER TEST

6.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 watt or 30dBm	2400-2483.5	PASS

6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Until
1	Power Meter	ANRITSU	ML2495A	1128009	Apr. 25, 2014
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Apr. 25, 2014

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

6.1.2 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- The maximum peak conducted output power was performed in accordance with method 9.1.3 of FCC KDB 558074

6.1.3 DEVIATION FROM STANDARD

No deviation.

6.1.4 TEST SETUP



6.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing. Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.



6.1.6 TEST RESULTS

EUT :	SLIDING BLUETOOTH GAMEPAD	Model Name :	KRGCT02-Bladepad
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00, CH19, CH39 - 1Mbps		

Maximum Output Power

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH00	2402MHz	-12.12	30	1
CH19	2440MHz	-13.22	30	1
CH39	2480MHz	-14.51	30	1



7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 Applied procedures / limit

30dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

7.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Until
1	Spectrum Analyzer	R&S	FSP_40	100185	Nov.16.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

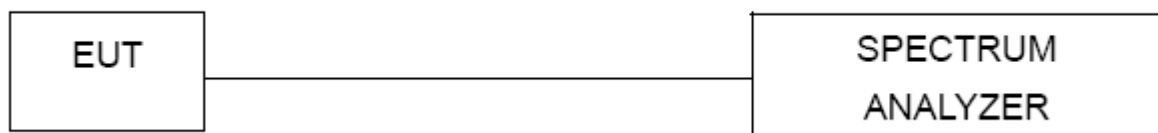
7.1.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 100KHz, VBW=300KHz, Sweep time = 10 ms.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP



7.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.



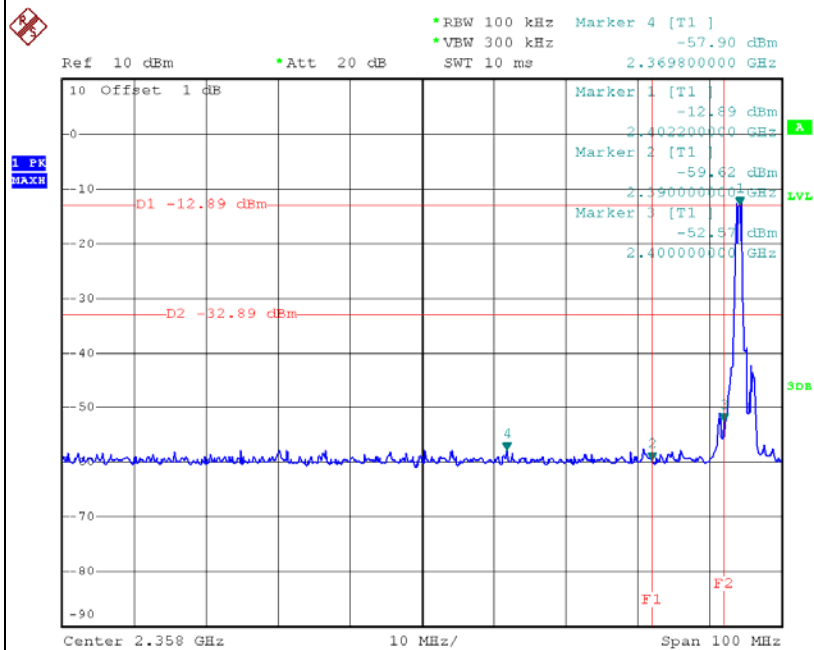
7.1.6 TEST RESULTS

EUT :	SLIDING BLUETOOTH GAMEPAD	Model Name :	KRGCT02-Bladepad
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00, CH19 , CH39 - 1Mbps		

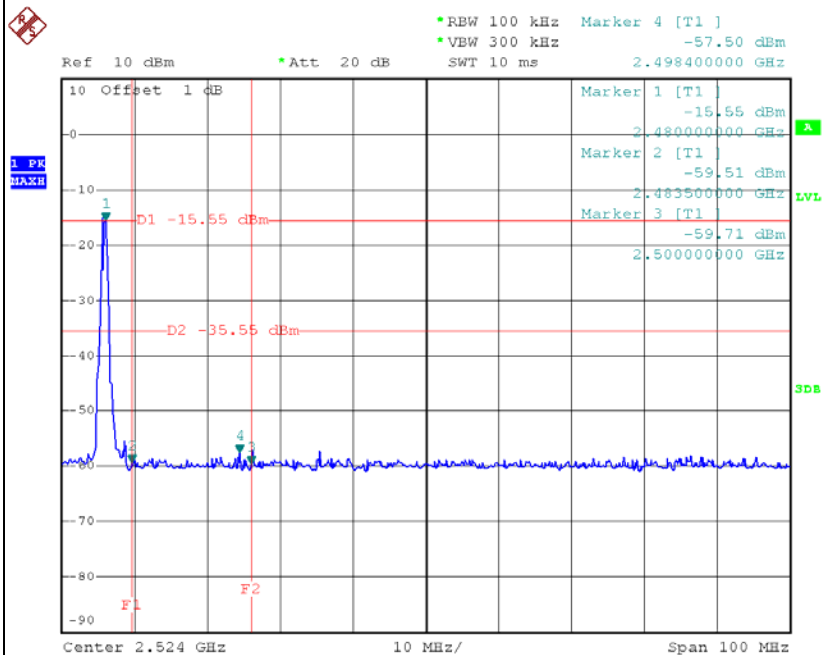
Channel of Worst Data: CH39			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2400.00	-52.57	2498.40	-57.50
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.			

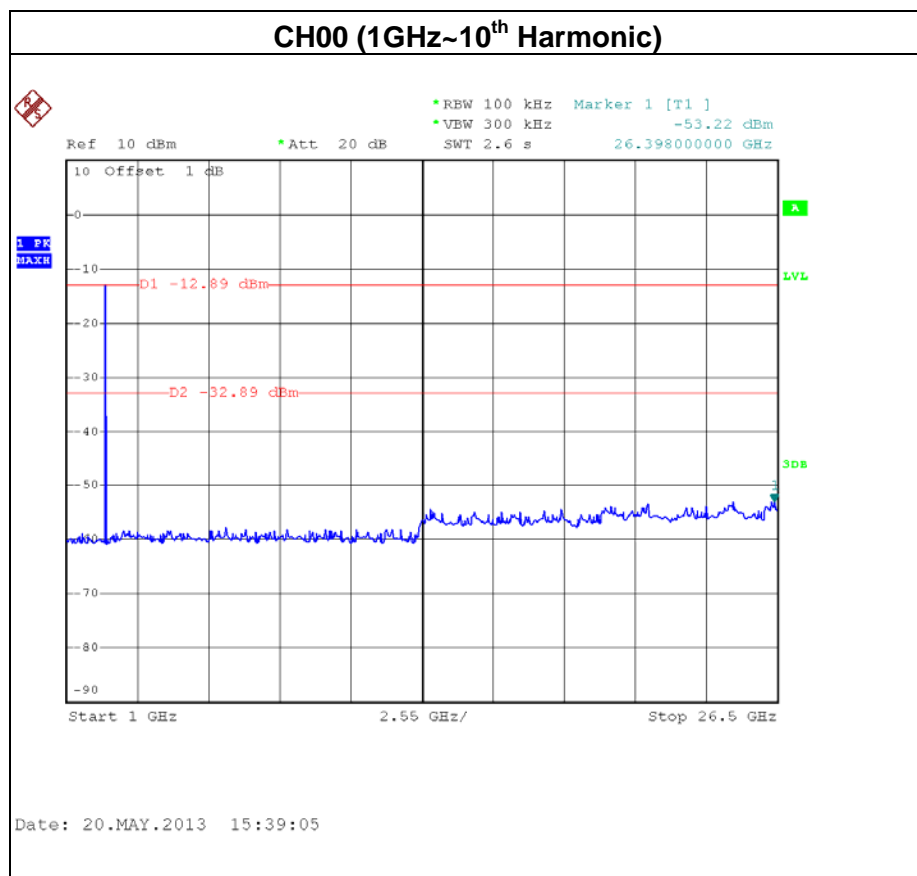
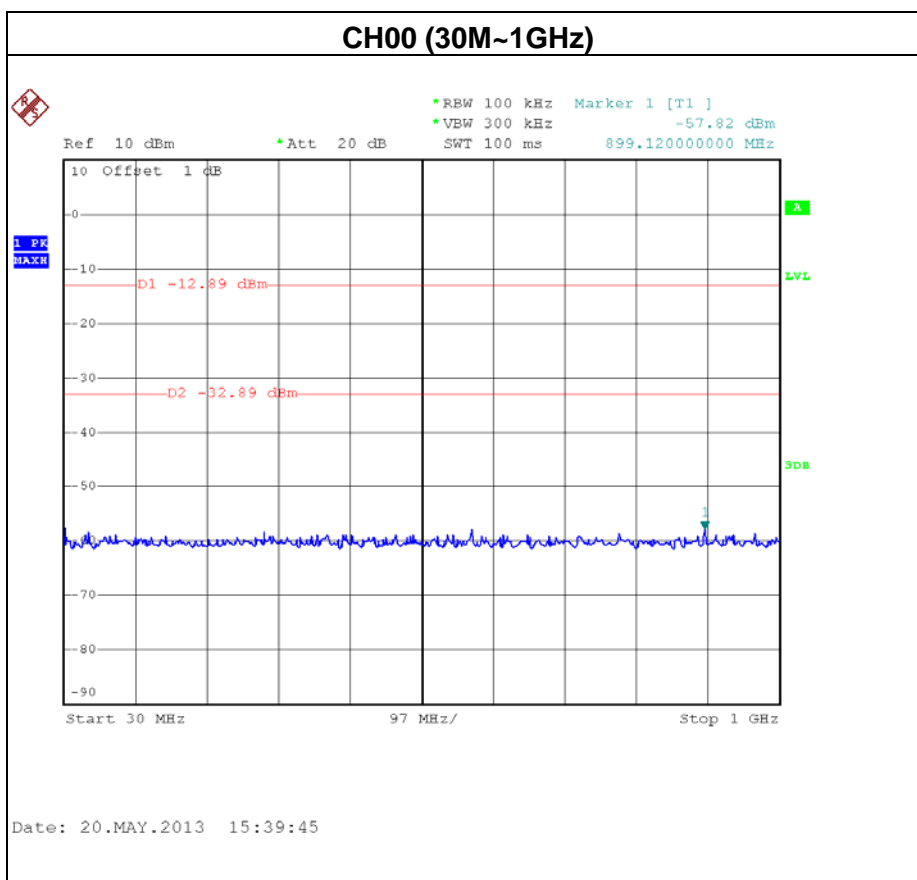


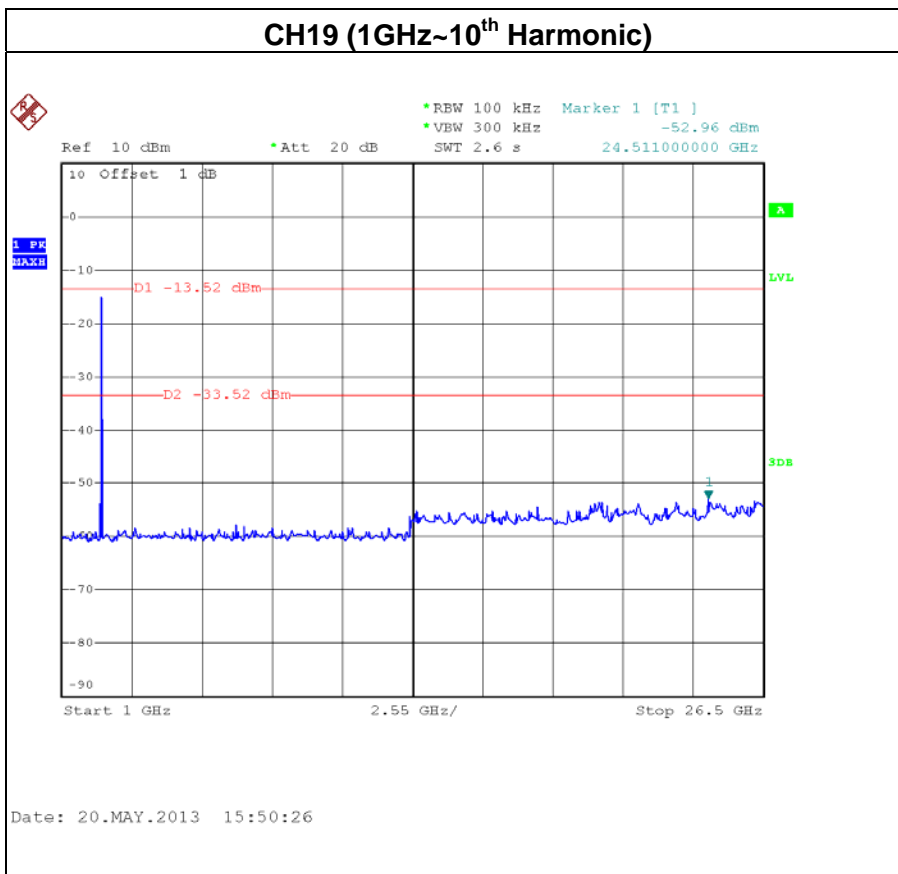
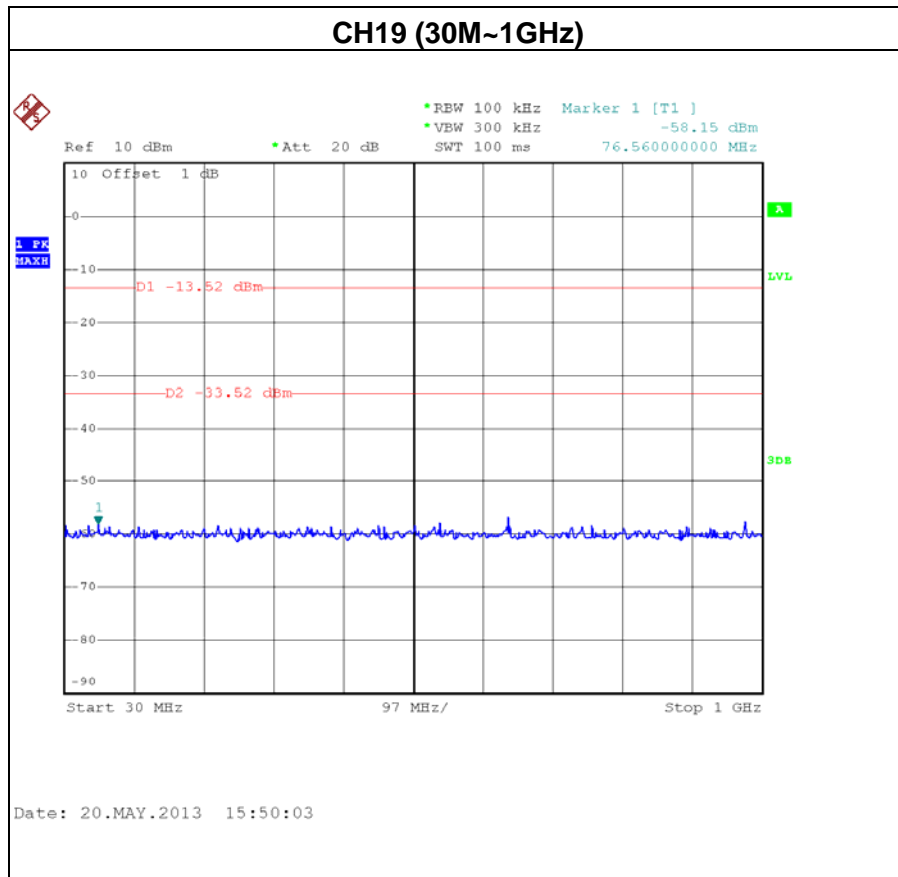
CH00 (Lower) - 1Mbps

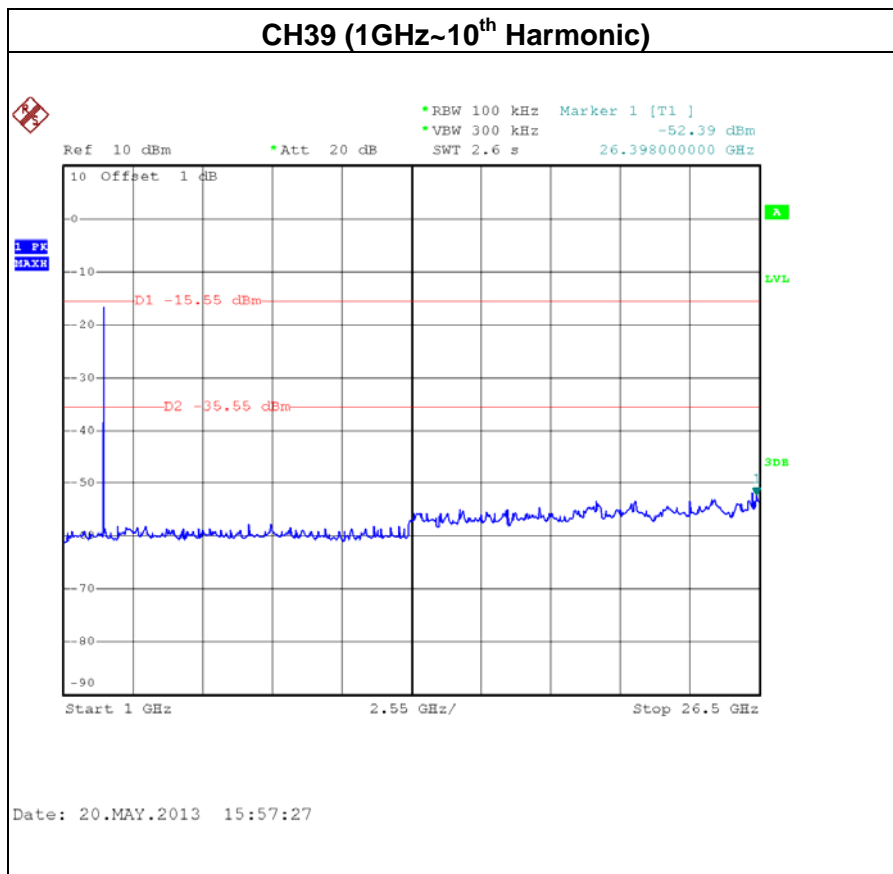
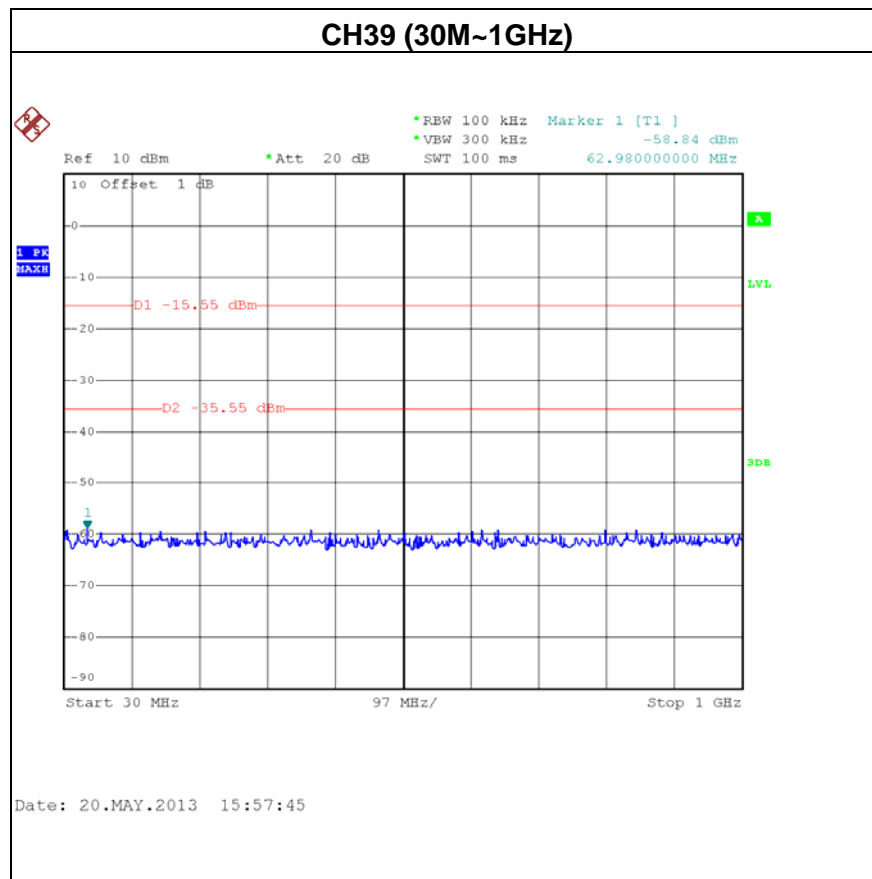


CH39 (upper) - 1Mbps











8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

8.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Until
1	Spectrum Analyzer	R&S	FSP_40	100185	Nov.16.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

8.1.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW=3KHz, VBW=10KHz, Sweep time = auto.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP



8.1.5 EUT OPERATION CONDITIONS

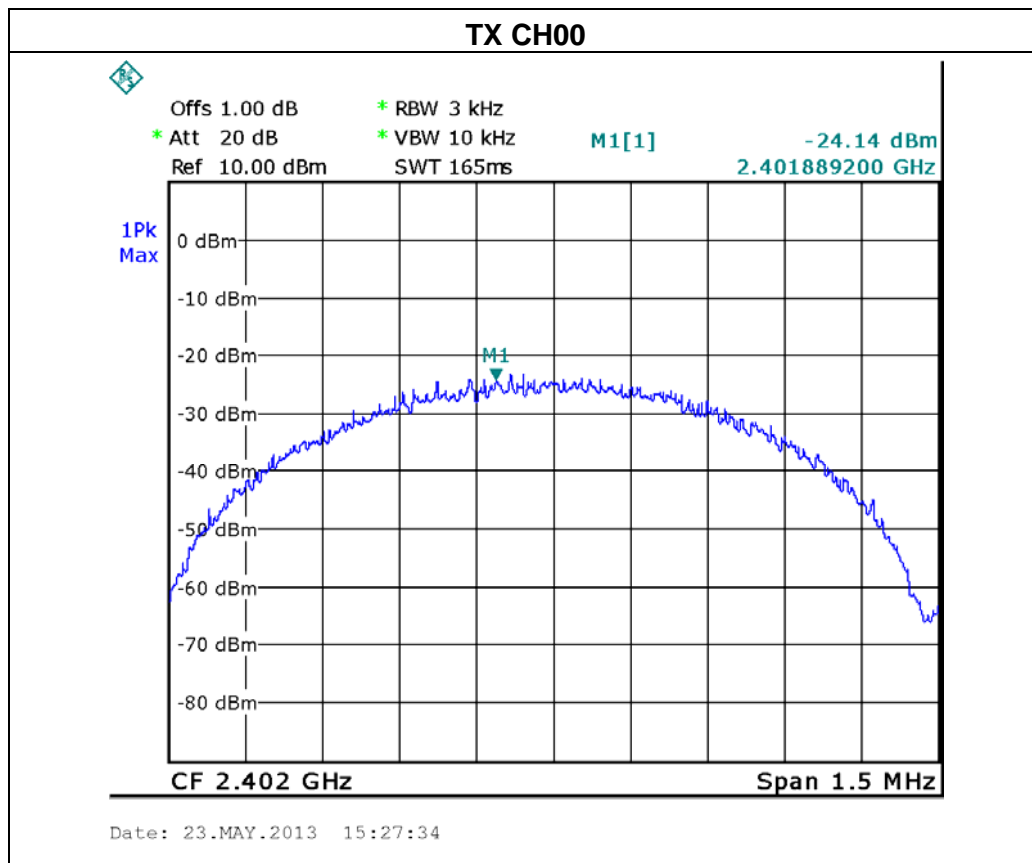
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

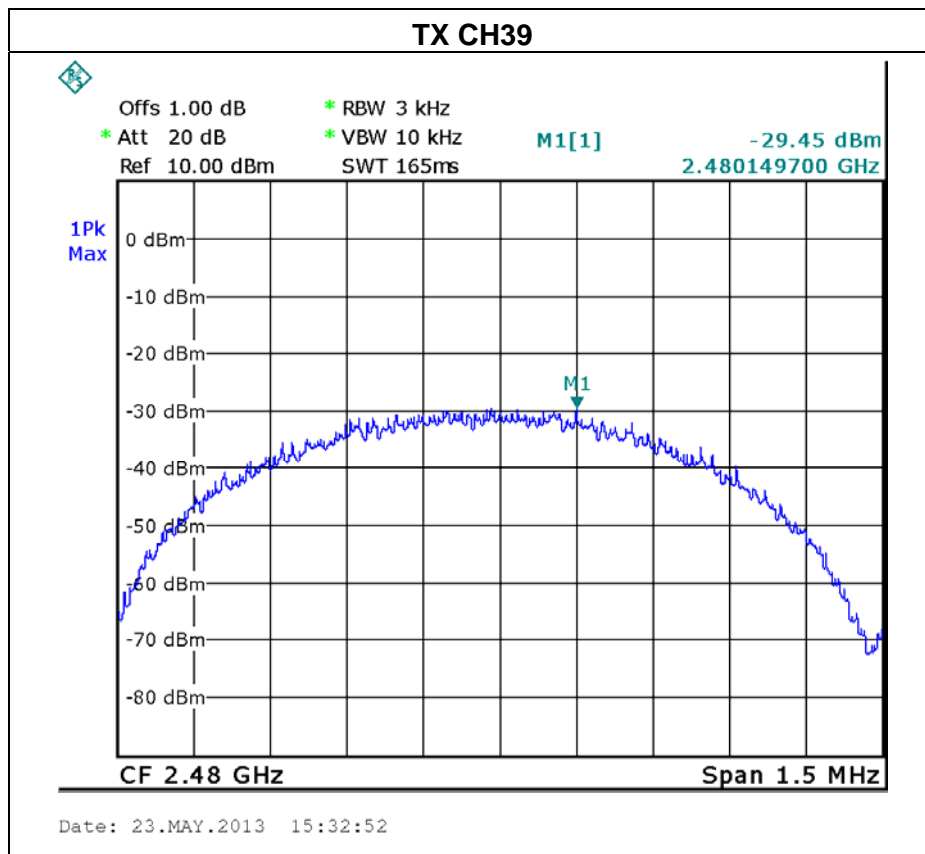
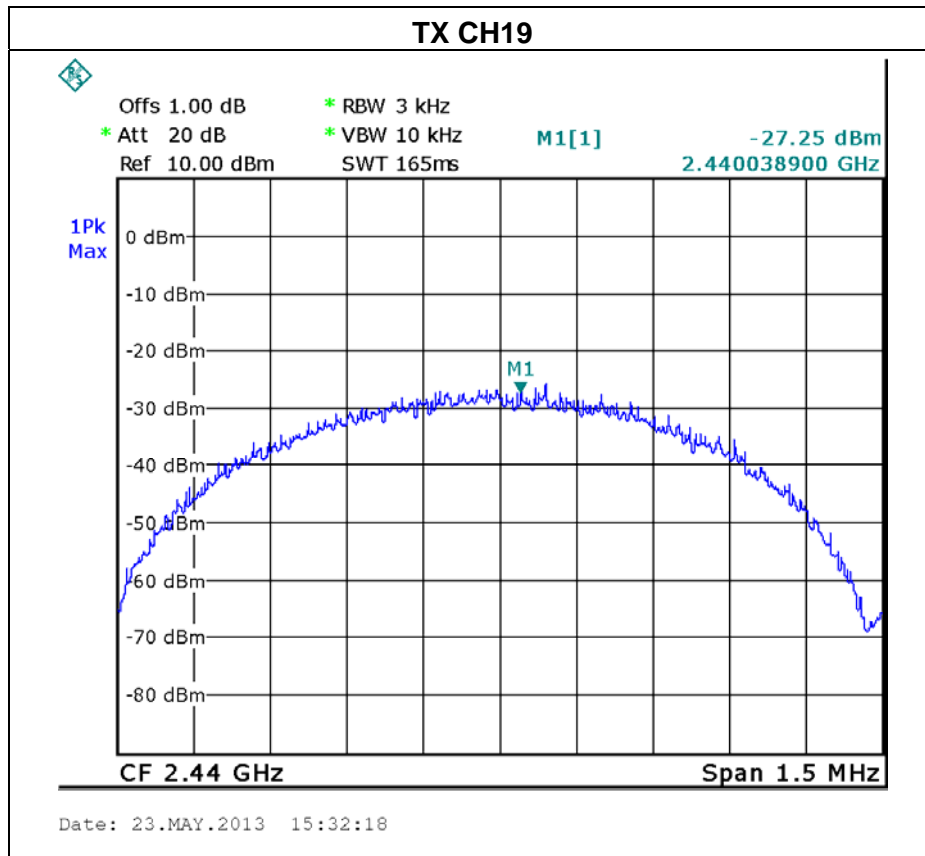


8.1.6 TEST RESULTS

EUT :	SLIDING BLUETOOTH GAMEPAD	Model Name :	KRGCT02-Bladepad
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00, CH19, CH39 -1Mbps		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH00	2402MHz	-24.14	8
CH19	2440MHz	-27.25	8
CH39	2480MHz	-29.45	8







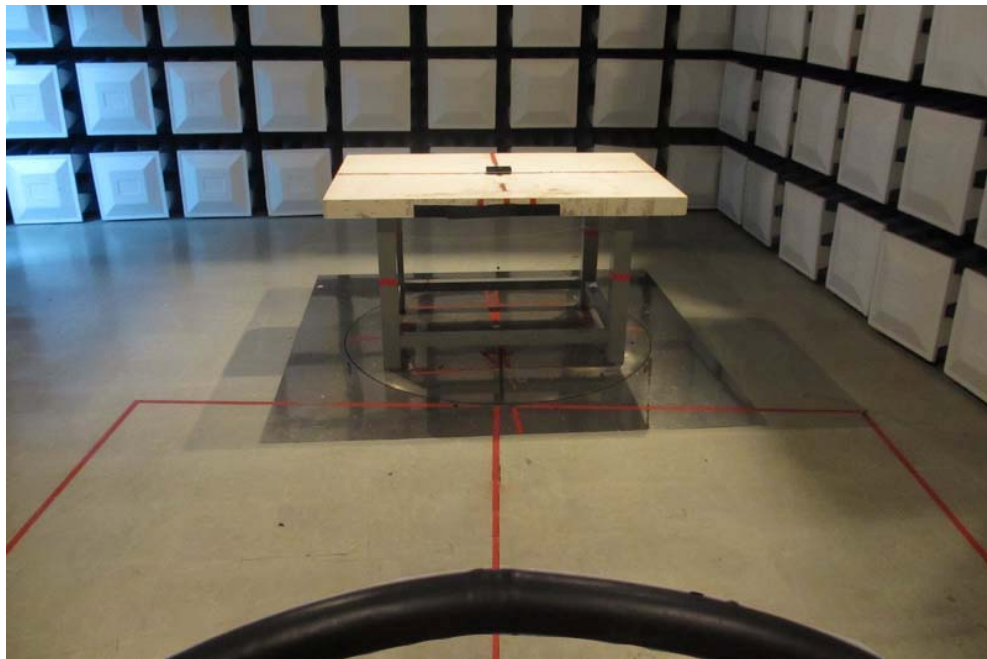
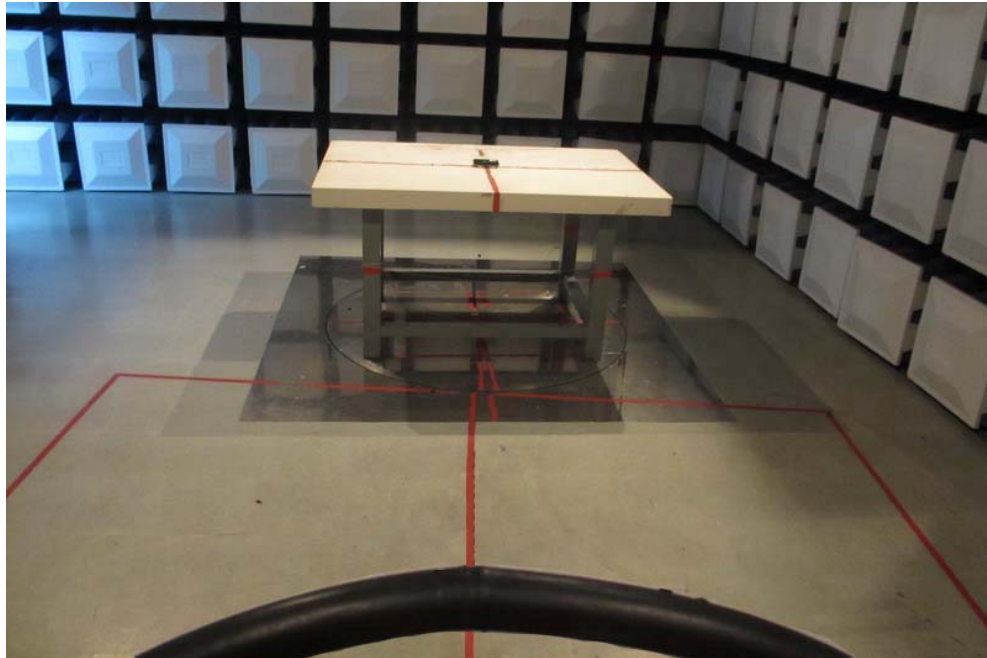
9. EUT TEST PHOTO

Conducted Measurement Photos

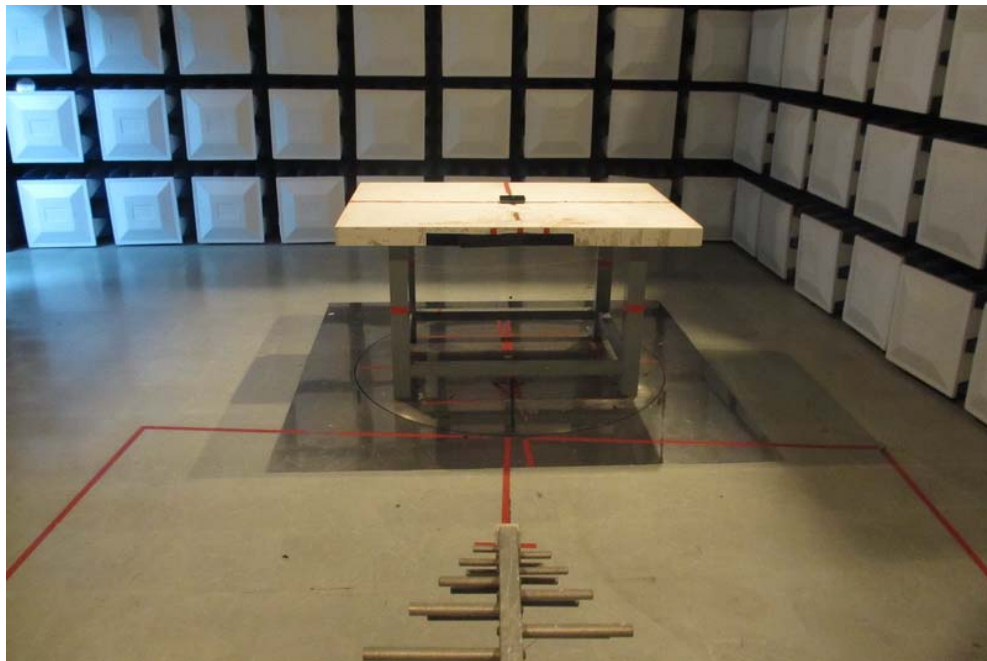
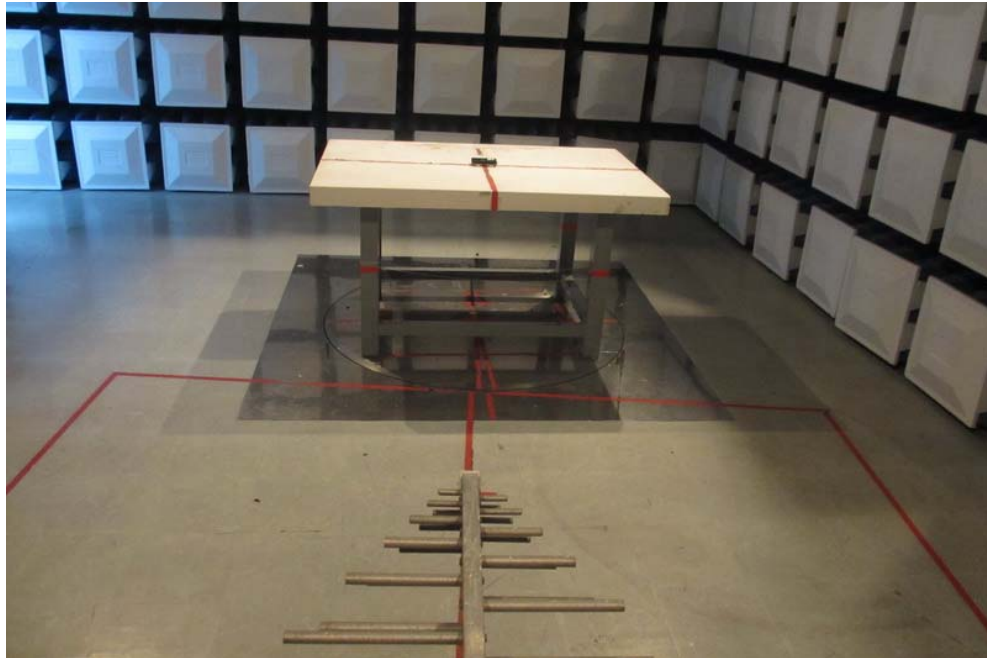




**Radiated Measurement Photos
9K~30MHz**



**Radiated Measurement Photos
30M~1000MHz**



**Radiated Measurement Photos
Above 1000MHz**

