



ISO/IEC17025 Accredited Lab.

FCC ID TEST REPORT

for

BLUETOOTH KEYBOARD

MODEL: BKB83B2

Trade Mark: N/A

FCC ID: X9PBKB83B2

Test Report Number: 12110930

Issued Date: December 12, 2012

Issued for

SHENZHEN PAOLUY SILICONE TECHNOLOGY CO.,LTD

**Ath Building 5th floor. Forzen Industrial park. Fuyuan 2nd Road.
Heping Village Fuyong Town. Baoan District .Shenzhen. China**

Issued By:

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD.

**5/F,Block 4, Anhua Industrial Zone., No.8 Tairan Rd. Chegongmiao,
Futian District Shenzhen, China**

TEL: +86-755-83448688

FAX: +86-755-83442996

TABLE OF CONTENTS

1	TEST CERTIFICATION.....	3
2	TEST RESULT SUMMARY	4
3	EUT DESCRIPTION	5
4	TEST METHODOLOGY	6
	4.1. DECISION OF FINAL TEST MODE.....	6
	4.2. EUT SYSTEM OPERATION.....	6
5	SETUP OF EQUIPMENT UNDER TEST.....	7
	5.1. DESCRIPTION OF SUPPORT UNITS	7
	5.2. CONFIGURATION OF SYSTEM UNDER TEST	7
6	FACILITIES AND ACCREDITATIONS	8
	6.1. FACILITIES.....	8
	6.2. MEASUREMENT UNCERTAINTY.....	9
7	TEST REQUIREMENTS.....	10
	7.1. CONDUCTED EMISSION MEASUREMENT.....	10
	7.2. Radiation Emission Test	14
	7.3. Band edge test.....	20
	7.4. Peak Power.....	27
	7.5. 20dB Bandwidth.....	33
	7.6. Channel Number (Number of Hopping Frequency)	38
	7.7. Channel Separation (Carrier Frequency Separation)	41
	7.8. Dwell Time (Time of Occupancy)	47
	7.9. transmitter Spurious Emission (Conducted)	53
	8. ANTENNA REQUIREMENT.....	58
9	PHOTOGRAPHS OF THE TEST CONFIGURATION.....	59
10	PHOTOGRAPHS OF EUT	60

1 TEST CERTIFICATION

Product:	BLUETOOTH KEYBOARD
Model:	BKB83B2
Trade Mark	N/A
Applicant:	Shenzhen Paoluy Silicone Technology Co., Ltd. Ath Building 5th floor, Forzen Industrial Park, Fuyuan 2nd Road, Heping Village Fuyong Town, Baoan District, Shenzhen, China
Factory:	Shenzhen Paoluy Silicone Technology Co., Ltd. Ath Building 5th floor, Forzen Industrial Park, Fuyuan 2nd Road, Heping Village Fuyong Town, Baoan District, Shenzhen, China
Tested:	November 24, 2012~ December 10, 2012
Test Voltage:	AC 120V/60Hz
Applicable Standards:	FCC Part 15 Subpart C: 2011 ANSI C63.4:2003

The above equipment has been tested by SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

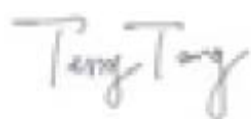


(Brown Lu)

Date:

2012-12-12

Check By:

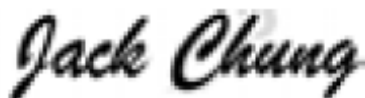


(Terry Tang)

Date:

2012-12-12

Approved By:



(Jack Chung)

Date:

2012-12-12

2 TEST RESULT SUMMARY

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(a)(1)	Hopping Channel Separation	PASS	
15.247(b)(1)	Peak Output Power	PASS	
15.247(c)	Radiated Spurious Emission	PASS	
15.247(a)(iii)	Number of Hopping Frequency	PASS	
15.247(a)(iii)	Dwell Time	PASS	
15.247(a)(1)	Bandwidth	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

” N/A” denotes test is not applicable in this Test Report

The test result judgment is decided by the limit of test standard

The information of measurement uncertainty is available upon the customer’s request.

All the modes have been investigated, and only worst mode is presented in this report.

3 EUT DESCRIPTION

Product	BLUETOOTH KEYBOARD
Trade Mark	N/A
Model	BKB83B2
Applicant	SHENZHEN PAOLUY SILICONE TECHNOLOGY CO.,LTD
Serial Number	N/A
Antenna Type	PCB ANTENNA
EUT Power Rating	DC 5V
Battery Power Rating	DC 3.7V
Adapter Power Rating	AC100-240V 50/60Hz
Test Voltage	AC120V/60Hz
Temperature Range(Operating)	-20 ~ +55℃
Operating Frequency (Bluetooth)	2402MHz ~ 2480MHz
Number of Channels	79 Channels
Modulation type	GFSK(1Mbps), 1/4 π - DQPSK(2Mbps), 8DPSK(3Mbps)

Note: N/A stand for no applicable.

4 TEST METHODOLOGY

4.1. DECISION OF FINAL TEST MODE

The EUT was tested together with the below additional components, and configuration, which produced the worst emission levels, was selected and recorded in this report.

The measurement was performed at 3 axis for lie orientation, side orientation and stand orientation. The stand orientation is the worst mode, so only the worst mode test data was reported.

The following test mode was recorder in this report.

4.2. EUT SYSTEM OPERATION

1. Set up EUT with the support equipments.
2. Make sure the EUT transmitting continuously during the test.

5 SETUP OF EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF SUPPORT UNITS

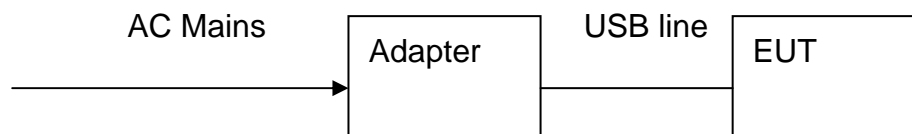
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Manufacturer	Description	Model	Serial Number	FCC
MLF	Adapter	IMU13	N/A	--

Note:

- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

5.2. CONFIGURATION OF SYSTEM UNDER TEST



(BLUETOOTH KEYBOARD)

6 FACILITIES AND ACCREDITATIONS

6.1. FACILITIES

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

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

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

CNAL-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

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

IC- Registration No.: IC5205A-01

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01

6.3. 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:

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.6\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.7\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.7\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

7 TEST REQUIREMENTS

7.1. CONDUCTED EMISSION MEASUREMENT

7.1.1. LIMITS

FREQUENCY (MHz)	Class B (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

7.1.2. TEST INSTRUMENTS

Conducted Emission Test Site				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI	100005	12/16/2012
LISN	LS	LS16	16010222119	12/16/2012
LISN(EUT)	Mestec	AN3016	04/10040	12/22/2012

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).
2. N.C.R = No Calibration Request.

7.1.3. TEST PROCEDURES

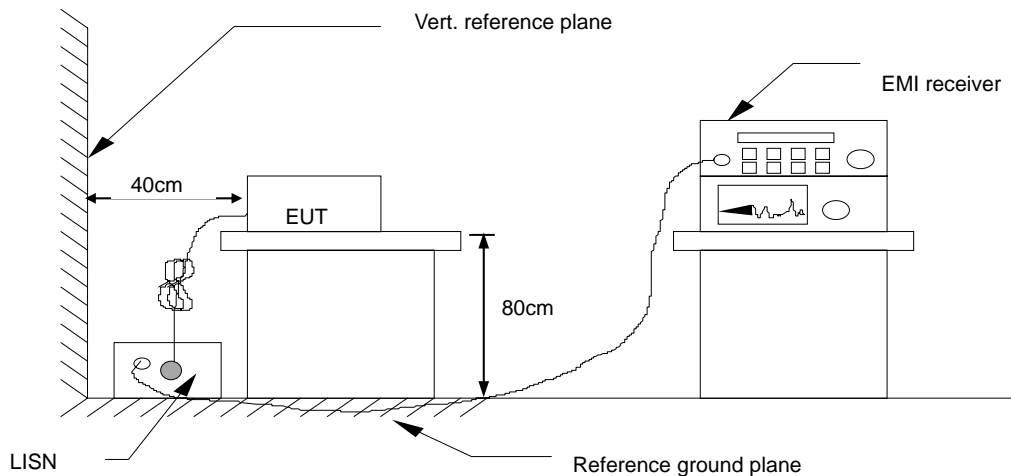
The EUT was put on a wooden table which was 0.8metre high above the ground and connected to the AC mains through a Artificial Mains Network (A.M.N). The mains lead in excess of 1 m separating the EUT from the AMN was folded back and forth parallel to the lead so as to form a bundle with a length of 0.3m to 0.4m. The EUT was kept 0.4m from any other earthed conducting surface. Both sides of AC line were checked to find out the maximum conducted emission levels according to the test procedure during conducted emission test.

The bandwidth of the test receiver (ESCI) was set at 9KHz.

The frequency range from 150 KHz to 30 MHz was investigated.

The test data of the worst-case condition(s) was recorded.

7.1.4. TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

7.1.5. Test Result

Model No.	BKB83B2	6dB Bandwidth	120 KHz
Environmental Conditions	26°C, 60% RH	Test Mode	Charging & Transmitting
Detector Function	Peak / Quasi-peak/AV	Test Result	Pass
Test By	Eric Bein		

NOTE: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

2. “---” denotes the emission level was or more than 2dB below the Average limit, so no re-check anymore.

Freq. = Emission frequency in MHz

Reading level(dBuV) = Receiver reading

Corr. Factor (dB) = Attenuator Factor+ Cable loss

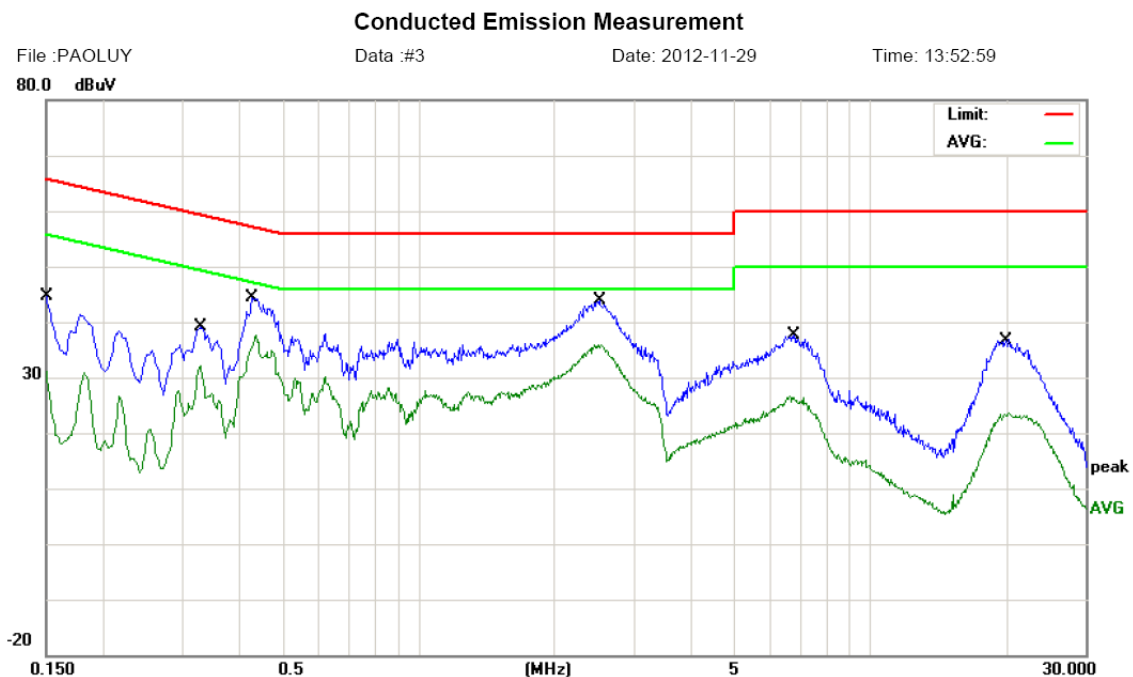
Level (dBuV) = Reading level(dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Level (dBuV) – Limits (dBuV)

Q.P.=Quasi-Peak

Please refer to following diagram for individual



Site 843 Shielded Room

Phase: **L1**

Temperature: 26

Limit: FCC Part15 B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 60 %

EUT: BLUETOOTH KEYBOARD

M/N: BKB83B2

Mode: Charging & Transmitting

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	34.14	10.45	44.59	65.99	-21.40	QP	
2		0.1500	20.79	10.45	31.24	55.99	-24.75	AVG	
3		0.3303	28.32	10.60	38.92	59.44	-20.52	QP	
4		0.3303	21.26	10.60	31.86	49.44	-17.58	AVG	
5		0.4305	33.71	10.47	44.18	57.24	-13.06	QP	
6		0.4305	25.33	10.47	35.80	47.24	-11.44	AVG	
7		2.4900	33.16	10.54	43.70	56.00	-12.30	QP	
8	*	2.4900	24.91	10.54	35.45	46.00	-10.55	AVG	
9		6.7140	26.59	10.53	37.12	60.00	-22.88	QP	
10		6.7140	14.99	10.53	25.52	50.00	-24.48	AVG	
11		19.7780	25.03	10.50	35.53	60.00	-24.47	QP	
12		19.7780	12.38	10.50	22.88	50.00	-27.12	AVG	

*:Maximum data x:Over limit !:over margin

(Reference Only)

Conducted Emission Measurement

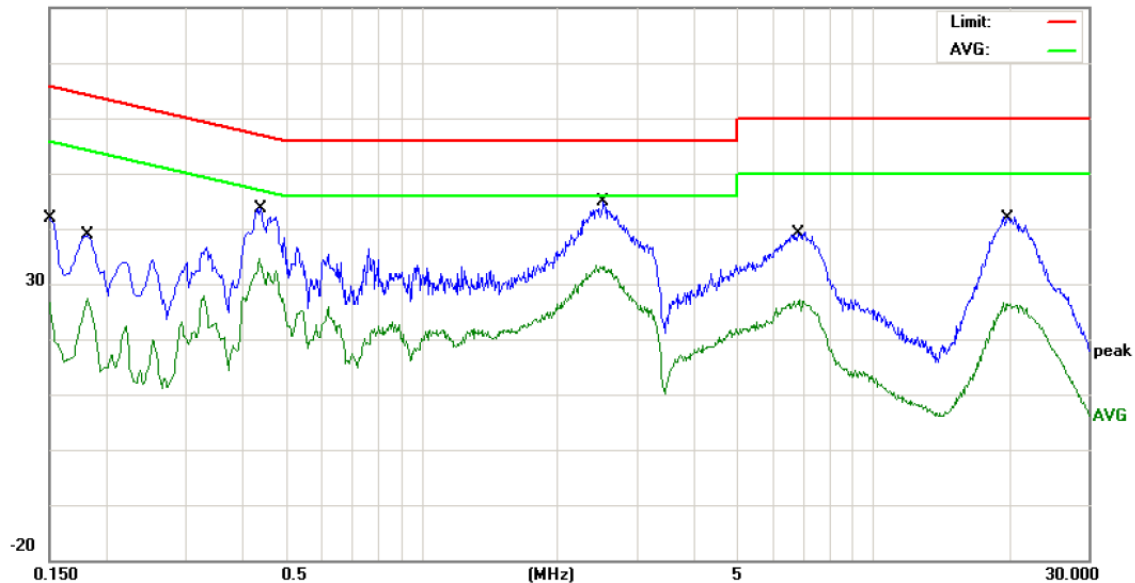
File :PAOLUY

Data :#4

Date: 2012-11-29

Time: 13:56:47

80.0 dBuV



Site 843 Shielded Room

Phase: **N**

Temperature: 26

Limit: FCC Part15 B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 60 %

EUT: BLUETOOTH KEYBOARD

M/N: BKB83B2

Mode: Charging & Transmitting

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1516	30.92	10.44	41.36	65.91	-24.55	QP	
2		0.1516	13.37	10.44	23.81	55.91	-32.10	AVG	
3		0.1806	28.35	10.36	38.71	64.45	-25.74	QP	
4		0.1806	16.00	10.36	26.36	54.45	-28.09	AVG	
5		0.4420	33.28	10.46	43.74	57.02	-13.28	QP	
6		0.4420	22.76	10.46	33.22	47.02	-13.80	AVG	
7	*	2.5300	34.26	10.54	44.80	56.00	-11.20	QP	
8		2.5300	22.60	10.54	33.14	46.00	-12.86	AVG	
9		6.8500	28.23	10.53	38.76	60.00	-21.24	QP	
10		6.8500	16.37	10.53	26.90	50.00	-23.10	AVG	
11		19.7500	31.22	10.50	41.72	60.00	-18.28	QP	
12		19.7500	14.79	10.50	25.29	50.00	-24.71	AVG	

*:Maximum data x:Over limit !:over margin

<Reference Only

7.2. Radiation Emission Test

Test Requirement: FCC part 15 C Section 15.209 , 15.205 and 15.247 (d)

7.2.1. Limits

The above field strength limits are specified at a distance of 3 meters. Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 and 15.205 as following:

Frequencies (MHz)	Field strength uV/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
Above 960	500	3

Above 1GHz limits:

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

FCC 15.247(d):

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

7.2.2. TEST INSTRUMENT

966 Chamber				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI	100005	12/16/2012
Spectrum Analyzer	R&S	FSU	100114	12/14/2012
Pre Amplifier	H.P.	HP8447E	2945A02715	12/16/2012
Pre-Amplifier	Compliance	PAM0118	1360976	12/16/2012
Bilog Antenna	SUNOL Sciences	JB3	A021907	12/10/2013
Horn Antenna	Schwarzbeck	BBHA 9170	RS2036	12/10/2013
Horn Antenna	Schwarzbeck	BBHA 9120	RS4051	12/10/2013
Loop Antenna	Schwarzbeck	FESP5132	RS101	12/23/2012
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	12/09/2013
Cable	TIME MICROWAVE	--	--	12/09/2013
System-Controller	CCS	N/A	N/A	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R
Spectrum analyzer	Agilent	E4407B	88156318	12/09/2013

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).
2. N.C.R = No Calibration Request.

7.2.3. Test procedure

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. At the frequency band of 30MHz to 1GHz, The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 to 4 m for horizontal and vertical polarizations. The broadband antenna (calibrated by dipole antenna) was used as a receiving antenna. At the frequency band of 1GHz to 25GHz, The measuring antenna moved from 1 to 4 m for horizontal and vertical polarization. The horn antenna was used as a receiving antenna.

The resolution bandwidth and video bandwidth of the test receiver was 120 KHz and 300KHz for Quasi-peak detection at frequency below 1GHz.

The resolution bandwidth and video bandwidth of the test receiver was 1MHz and 3MHz for Peak emission measurement above 1GHz.

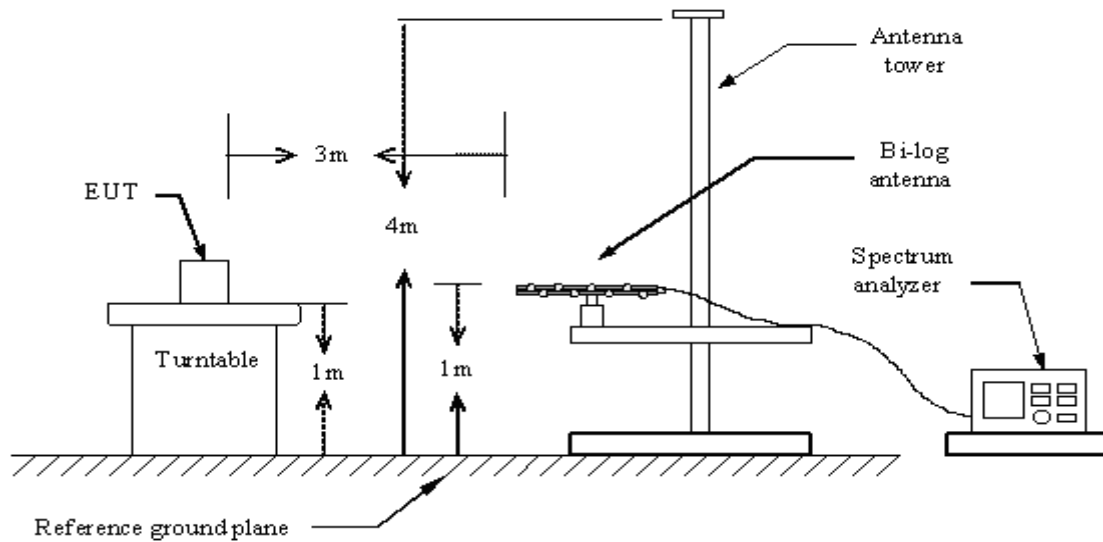
For Average emission above 1GHz, the resolution bandwidth and video bandwidth of the test receiver was 1MHz and 10Hz.

The EUT was tested in Chamber Site.

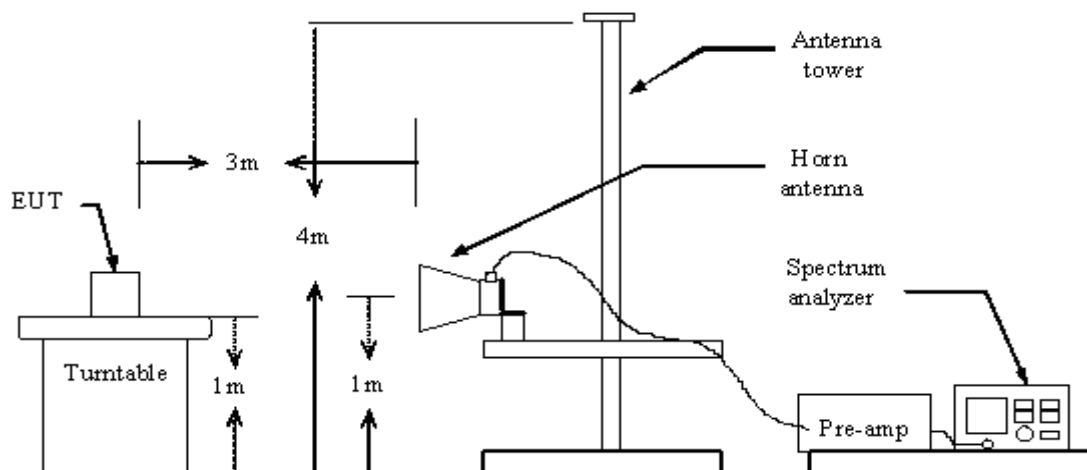
The test data of the worst case condition(s) was reported on the following pages.

7.2.4 Test setup diagram

Below 1GHz



Above 1GHz



7.2.5. Test Result

Harmonics Radiated Emission Data

Product:	BLUETOOTH KEYBOARD	Test mode:	CH Low~CH High
Test Item:	Radiated Emission Data	Temperature:	25℃
Test Voltage:	AC 120V/60Hz	Humidity:	56%RH
Test Result:	PASS	Test date:	November 29, 2012

CH Low

Freq. (MHz)	Emission(dBuV/m) Peak Detector	HORIZ/ VERT	Limits(dBμV/m) Peak/ Average	Margin (dB)
4804.12	49.2/33.2	H/V	74.0/54.0	24.8/20.8
7206.18	49.2/33.9	H/V	74.0/54.0	24.8/20.1
9608.24	48.7/33.2	H/V	74.0/54.0	25.3/20.8
12010.3	48.3/32.8	H/V	74.0/54.0	25.7/21.2
14412.36	48.5/33.2	H/V	74.0/54.0	25.5/20.8
16814.42	49.6/33.5	H/V	74.0/54.0	24.4/20.5
19216.48	48.6/32.7	H/V	74.0/54.0	25.4/21.3
21618.54	48.0/32.8	H/V	74.0/54.0	26.0/21.2
24020.6	47.9/32.9	H/V	74.0/54.0	26.1/22.1

CH Middle

Freq. (MHz)	Emission(dBμ V/m) Peak Detector	HORIZ/ VERT	Limits(dBμ V/m) Peak/ Average	Margin (dB)
4882.18	49.2/33.8	H/V	74.0/54.0	24.8/20.2
7323.27	49.6/33.7	H/V	74.0/54.0	24.4/20.3
9764.36	49.7/33.4	H/V	74.0/54.0	24.3/20.6
12205.45	48.3/32.8	H/V	74.0/54.0	25.7/21.2
14646.54	48.5/33.3	H/V	74.0/54.0	25.5/20.7
17087.63	48.4/32.2	H/V	74.0/54.0	25.6/21.8
19528.72	48.6/32.7	H/V	74.0/54.0	25.4/21.3
21969.81	48.0/32.2	H/V	74.0/54.0	26.0/21.8
24410.9	48.9/32.6	H/V	74.0/54.0	25.1/21.4

CH High

Freq. (MHz)	Emission(dBμV/m) Peak Detector	HORIZ/ VERT	Limits(dBμV/m) Peak/ Average	Margin (dB)
4960.26	49.1/33.9	H/V	74.0/54.0	24.9/20.1
7440.39	48.9/33.2	H/V	74.0/54.0	25.1/20.8
9920.52	48.7/33.5	H/V	74.0/54.0	25.3/20.5
12400.65	48.3/32.8	H/V	74.0/54.0	25.7/21.2
14880.78	49.5/32.7	H/V	74.0/54.0	24.5/21.3
17360.91	48.4/32.5	H/V	74.0/54.0	25.6/21.5
19841.04	47.6/32.7	H/V	74.0/54.0	26.4/21.3
22321.17	48.0/32.2	H/V	74.0/54.0	26.0/21.8
24801.3	48.9/33.7	H/V	74.0/54.0	25.1/20.4

Note: - means the emission is too low at least 20dB to the limit.

C. General Radiated Emission Data

Product:	BLUETOOTH KEYBOARD	Test mode:	transmitting
Test Item:	Radiated Emission Data	Temperature:	25°C
Test Voltage:	AC 120V/60Hz	Humidity:	56%RH
Test Result:	PASS	Test date:	November 29, 2012

Freq. (MHz)	Emission(dBμV/m) Peak Detector	HORIZ/ VERT	Limits(dBμV/m) Peak/ Average	Margin (dB)
96.82	30.2	HORIZ	43.5	13.3
96.82	32.7	VERT	43.5	10.8
195.53	27.5	HORIZ	43.5	16.0
195.53	30.7	VERT	43.5	12.8
432.43	29.7	HORIZ	46	16.3
432.43	32.5	VERT	46	13.5

NOTE: 9KHz-30MHz the measurements were greater than 20dB below the limit.

7.3. Band edge test

7.3.1. Limits

Out of Band Conducted Emissions, FCC Rule 15.247(d):

In any 100 KHz bandwidth outside the EUT passband, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 20 dB below that of the maximum in-band 100 kHz emission, or else shall meet the general limits for radiated emissions at frequencies outside the passband, whichever results in lower attenuation.

7.3.2. TEST INSTRUMENT

Same as 7.2.2

7.3.3. Test procedure

1. The EUT was Operating in hopping mode or could be controlled its channel. Printed out test result from the spectrum by hard copy function.
2. The EUT was placed on a turn table which is 0.8m above ground plane.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Set the EUT work on the CH1, CH79 individually.
5. Set SPA Frequency = Operation frequency, for PK: RBW =100KHz, VBW=300KHz
6. Set SPA trace max hold, then view.

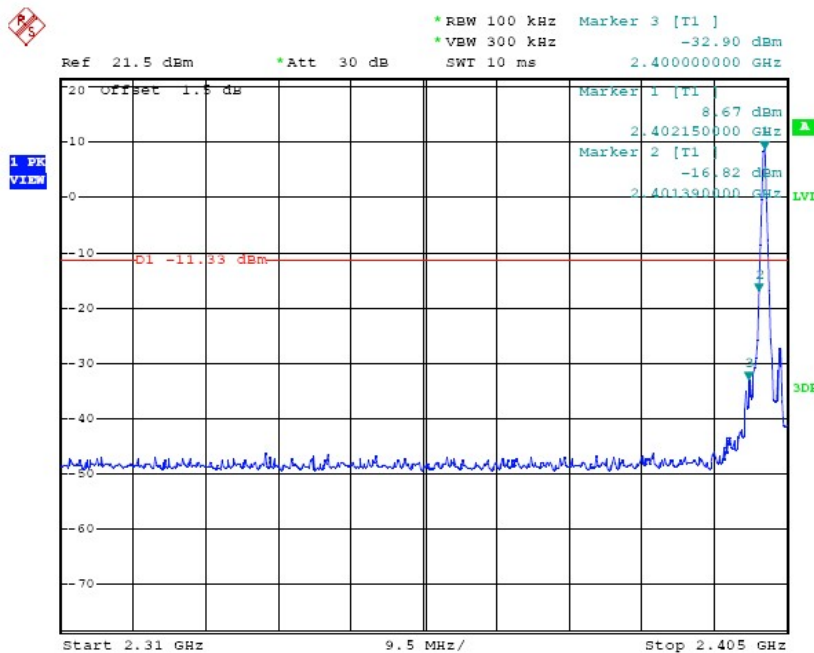
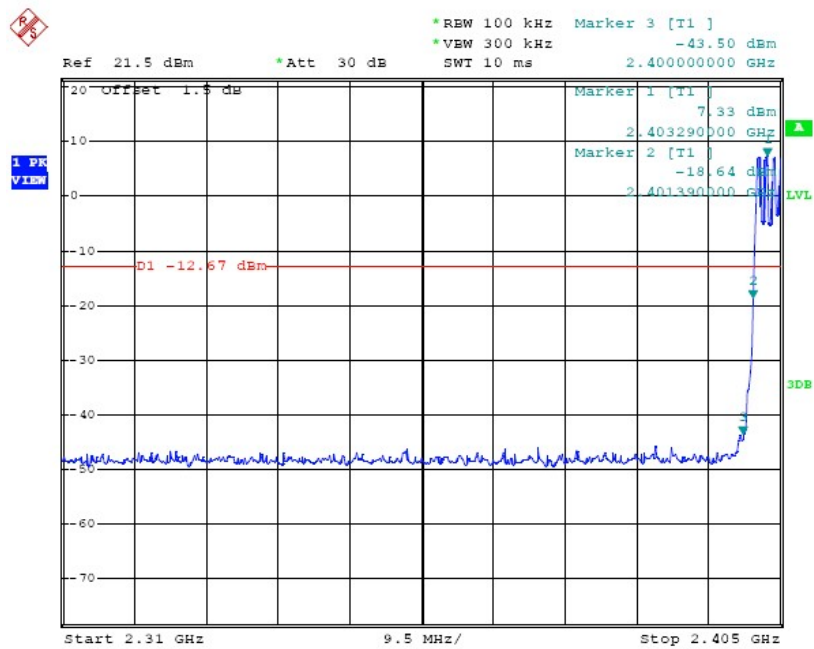
7.3.4. Test setup diagram

Same as 7.2.4

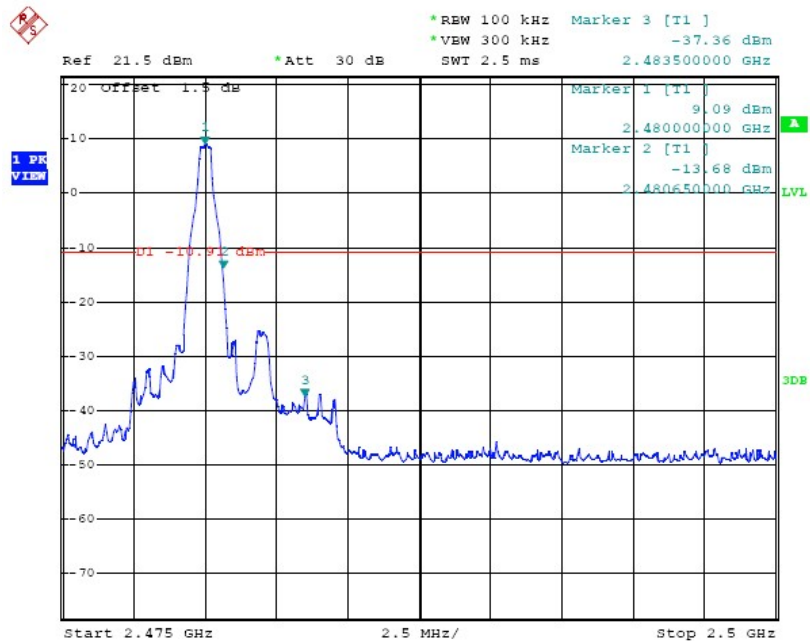
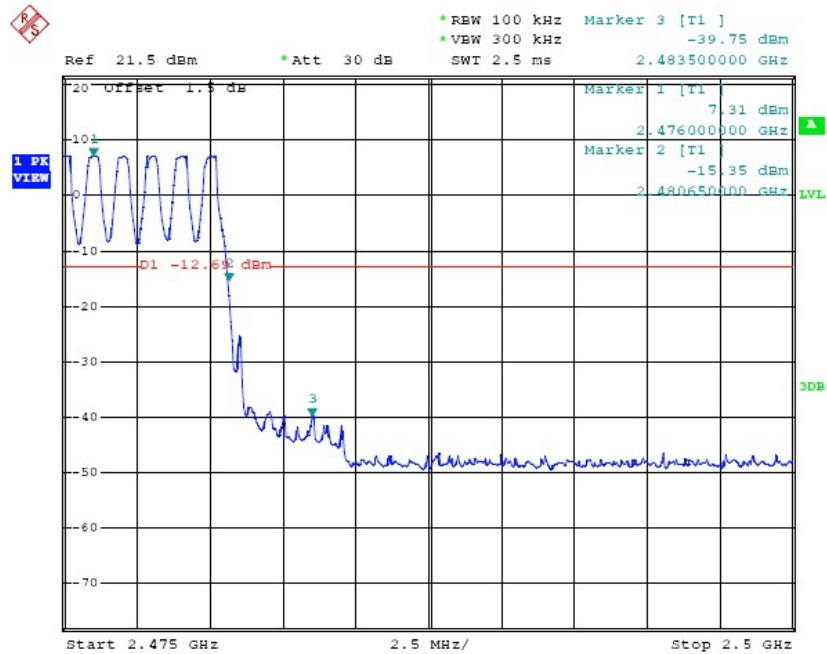
7.3.5. Test result

Product:	BLUETOOTH KEYBOARD	Test mode:	CH Low, CH High
Test Item:	Band edge	Temperature:	25°C
Test Voltage:	AC 120V/60Hz	Humidity:	56%RH
Test Result:	PASS	Test date:	November 29, 2012

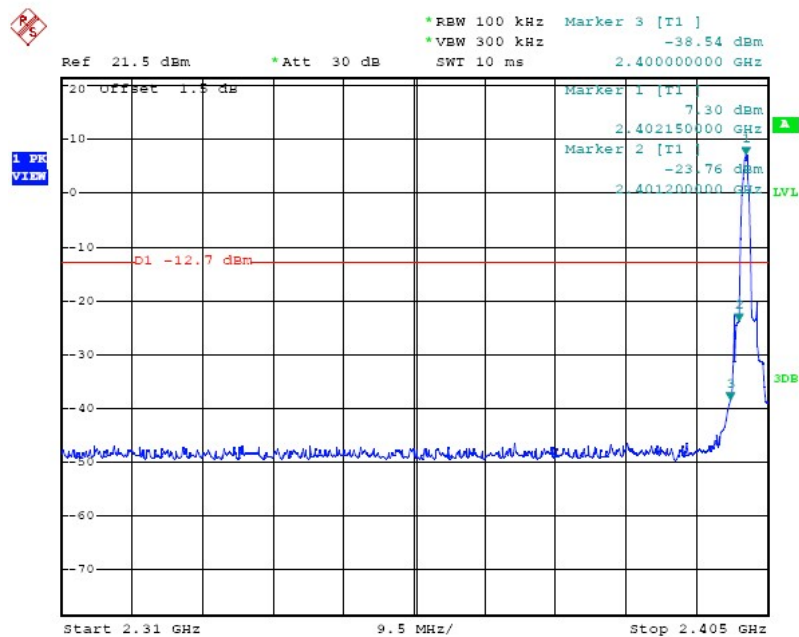
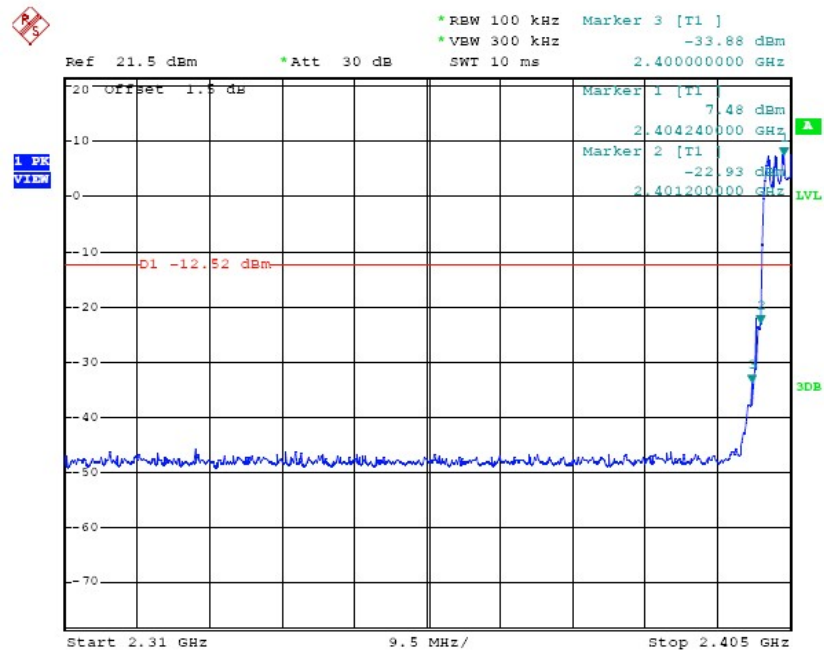
GFSK: CH Low



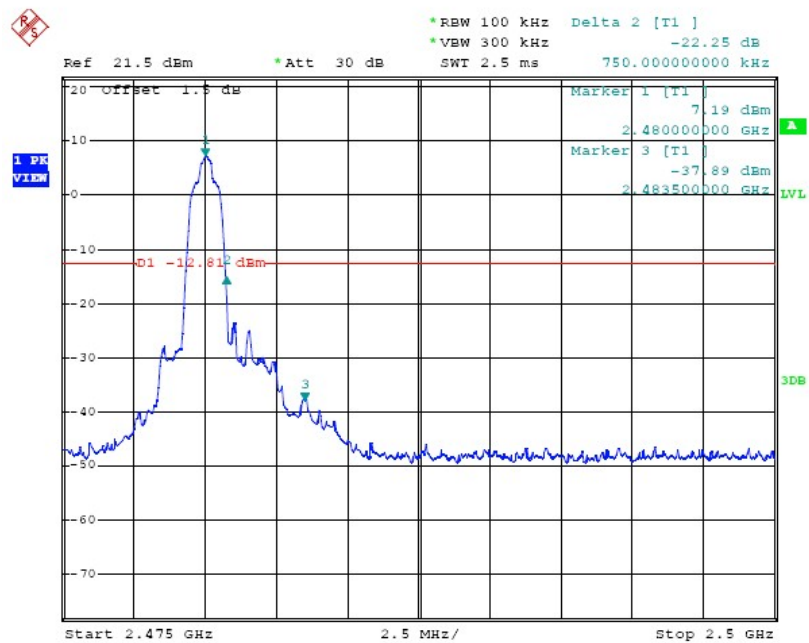
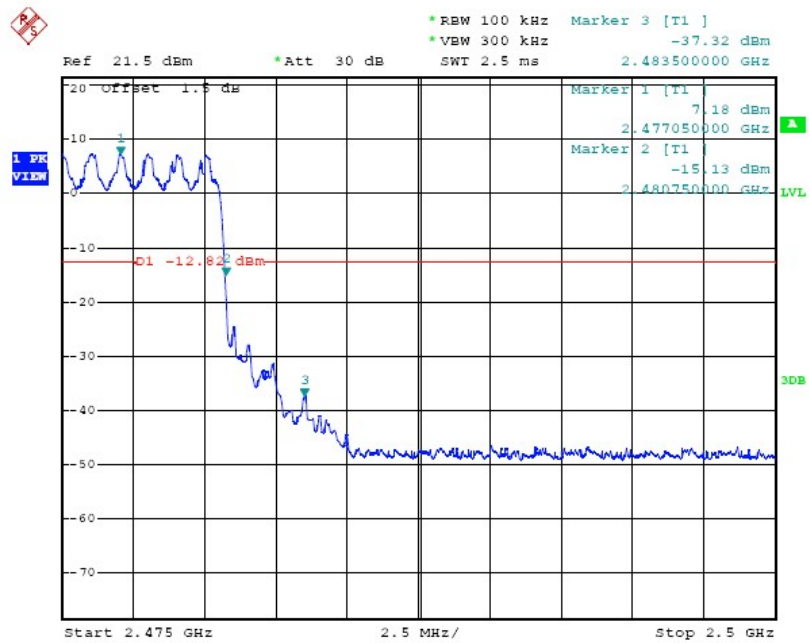
GFSK: CH High



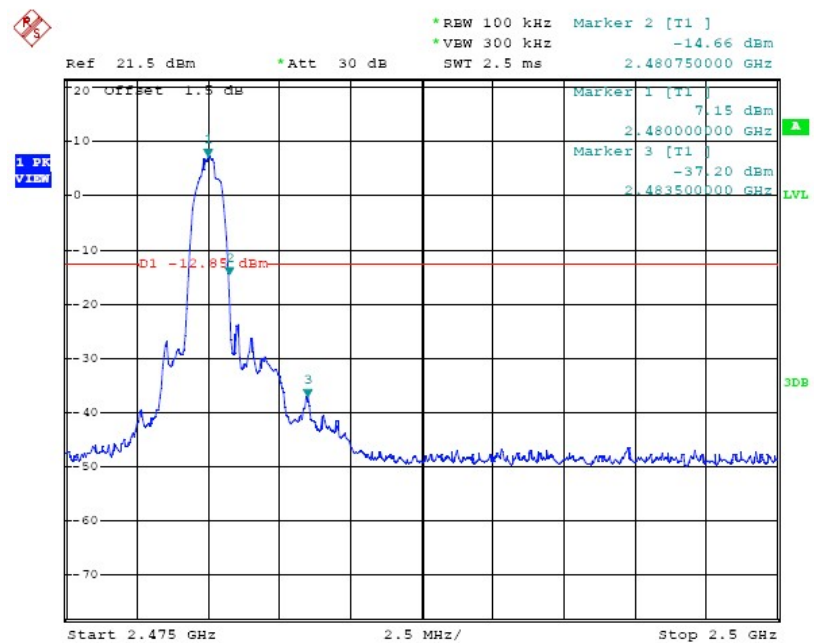
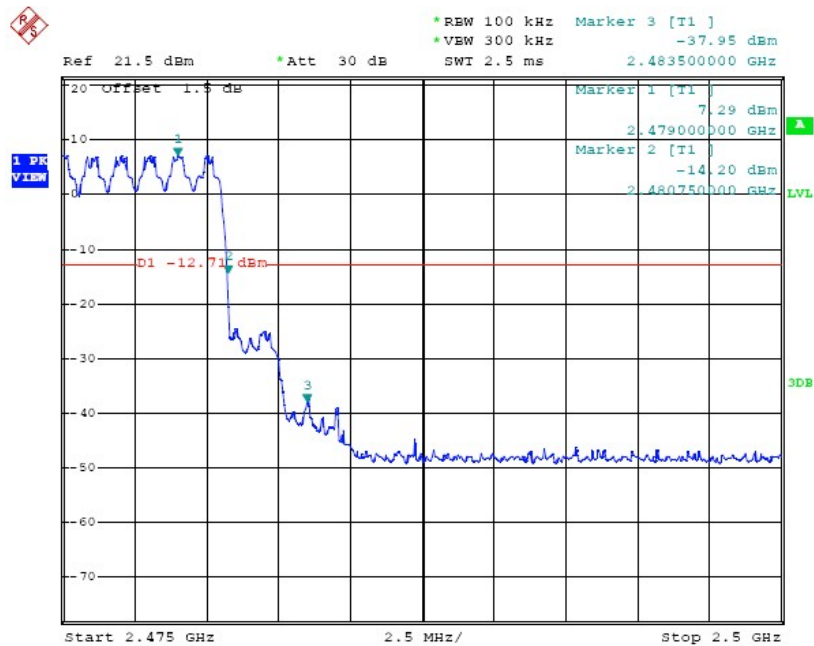
$\pi/4$ -DQPSK: CH Low



$\pi/4$ -DQPSK: CH High



8DPSK: CH High



7.4. Peak Power

Maximum Conducted Output Power at Antenna Terminals, FCC Rules 15.247(b)(1):

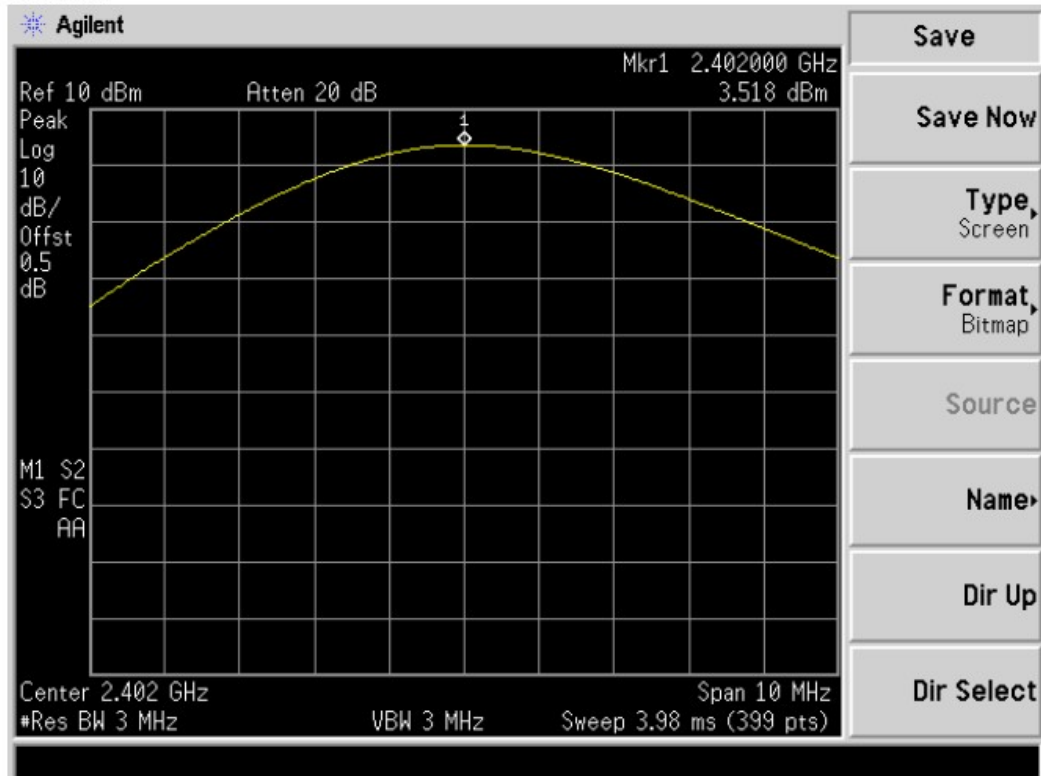
The antenna port of the EUT was connected to the input of a spectrum analyzer. The analyzer was set for RBW> 20dB bandwidth and power was read directly in dBm. Cable loss was considered during this measurement.

For antenna with gains of 6 dBi or less, maximum allowed transmitter output 125 mW (+21dBm)

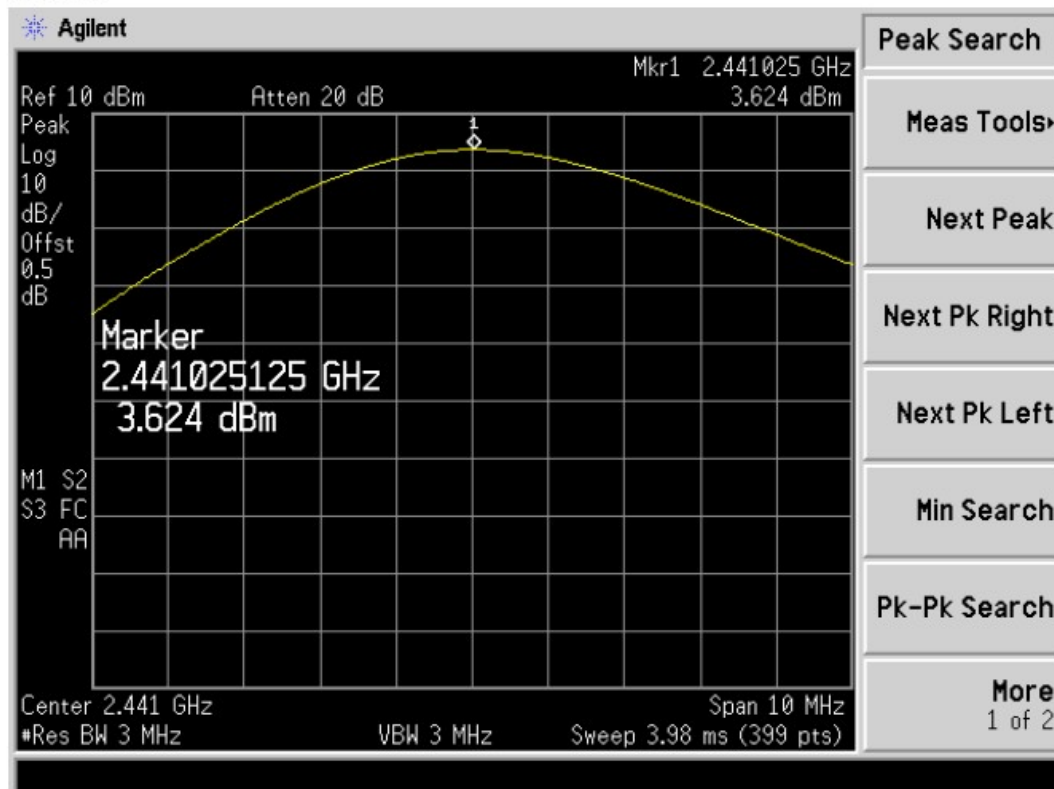
Antenna Gain = 0.50dBi			
Modulation Type	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
GFSK	2402	3.518	2.248
	2441	3.624	2.303
	2480	3.824	2.412
$\pi/4$ -DQPSK	2402	2.595	1.818
	2441	2.798	1.905
	2480	2.939	1.967
8DPSK	2402	2.754	1.885
	2441	2.933	1.965
	2480	3.032	2.010

Modulation Type: GFSK

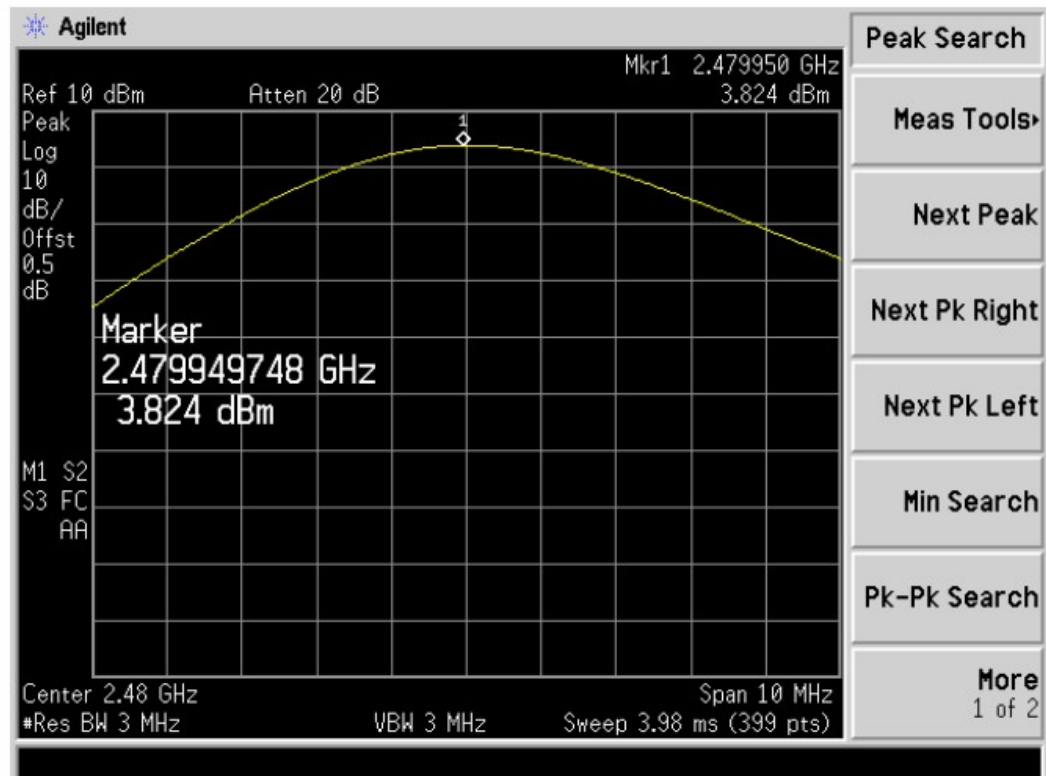
CH00



CH39

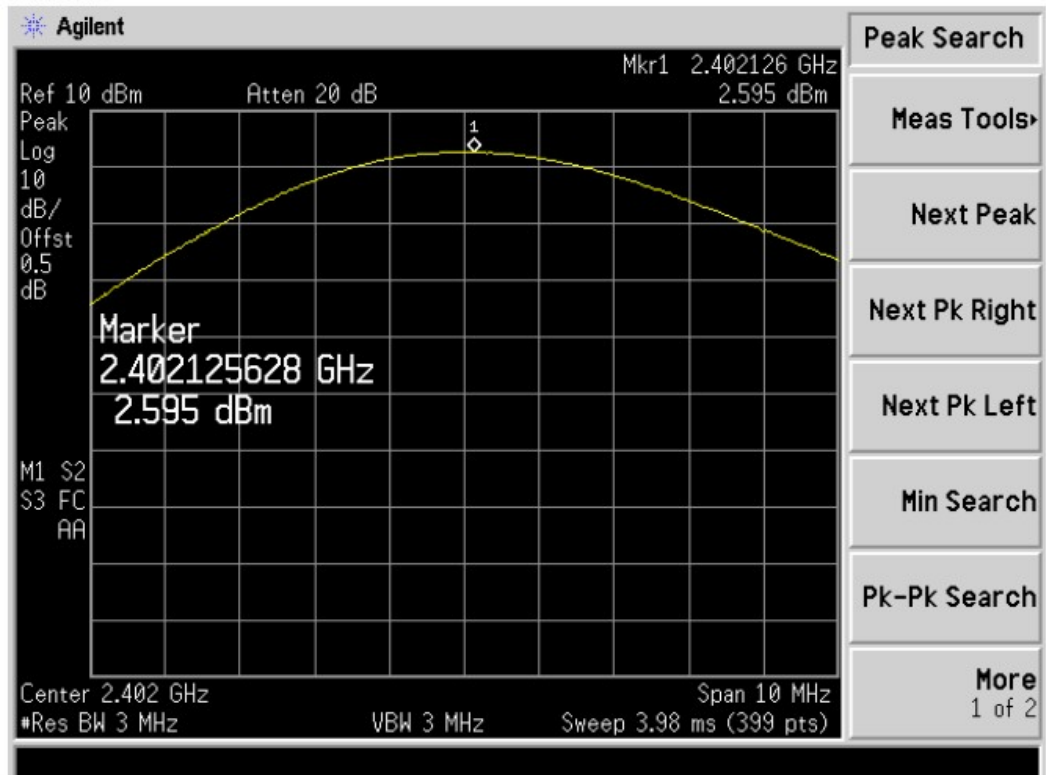


CH78

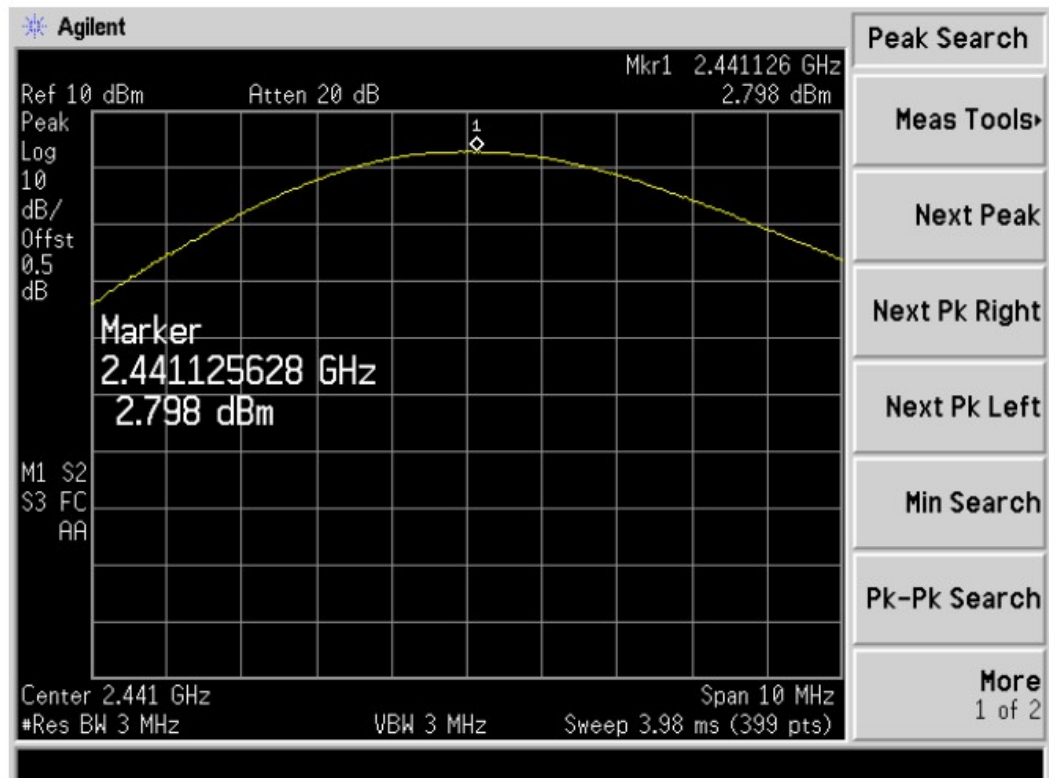


Modulation Type: $\pi/4$ -DQPSK

CH00



CH39



CH78

