

TEST REPORT

Reference No...... : WTS15S0627846E
FCC ID : WUIYX-BM0X
Applicant..... : Winplus Co., Ltd.
Address..... : Suites 6-11, 7th Floor, Corporation Park, 11 On La Shatin Hong Kong
Manufacturer : Shenzhen Macrothings Technology Co., Ltd.
Address..... : Room 1812, Sangtai Building, Lishan Road, Nanshan District,
Shenzhen City, Guangdong Province, China
Product Name..... : Bluetooth module
Model No : YX-BM0X
Standards..... : FCC CFR47 Part 15 Section 15.247:2014
Date of Receipt sample : Jun. 06, 2015
Date of Test : Jun. 07, 2015 - Jun.12, 2015
Date of Issue..... : Jun,15, 2015
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

Waltek Services (Shenzhen) Co., Ltd.

Address: 1/F., Fukangtai Building, West Baima Road, Songgang Street, Baoan District, Shenzhen,
Guangdong, China

Tel :+86-755-83551033

Fax:+86-755-83552400

Tested by:



Tiger Ye / Engineer

Approved by:



Philo Zhong / Manager

2 Test Summary

Test Items	Test Requirement	Result
Radiated Emissions	15.205(a) 15.209(a)	PASS
Conducted Emissions	15.207(a)	N/A
6dB Bandwidth	15.247(a)(2)	PASS
Maximum Peak Output Power	15.247(b)(3),(4)	PASS
Power Spectral Density	15.247(e)	PASS
Band Edge	15.247(d)	PASS
Antenna Requirement	15.203	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

3 Contents

	Page
1 COVER PAGE.....	1
2 TEST SUMMARY	2
3 CONTENTS	3
4 GENERAL INFORMATION.....	4
4.1 GENERAL DESCRIPTION OF E.U.T.	4
4.2 DETAILS OF E.U.T.	4
4.3 CHANNEL LIST	4
4.4 TEST MODE	4
4.5 TEST FACILITY	5
5 EQUIPMENT USED DURING TEST	6
5.1 EQUIPMENTS LIST	6
5.2 DESCRIPTION OF SUPPORT UNITS	6
5.3 MEASUREMENT UNCERTAINTY	7
5.4 TEST EQUIPMENT CALIBRATION	7
6 CONDUCTED EMISSIONS.....	8
7 RADIATED EMISSIONS.....	9
7.1 EUT OPERATION.....	9
7.2 TEST SETUP	10
7.3 SPECTRUM ANALYZER SETUP	11
7.4 TEST PROCEDURE	12
7.5 SUMMARY OF TEST RESULTS	13
8 BAND EDGE MEASUREMENT	16
8.1 TEST PRODUCE.....	16
8.2 TEST RESULT	17
9 6 DB BANDWIDTH MEASUREMENT	18
9.1 TEST PROCEDURE	18
9.2 TEST RESULT	18
10 MAXIMUM PEAK OUTPUT POWER	20
10.1 TEST PROCEDURE.....	20
10.2 TEST RESULT	20
11 POWER SPECTRAL DENSITY	22
11.1 TEST PROCEDURE.....	22
11.2 TEST RESULT	22
12 ANTENNA REQUIREMENT	24
13 RF EXPOSURE.....	25
13.1 REQUIREMENTS.....	25
13.2 THE PROCEDURES / LIMIT	25
13.3 MPE CALCULATION METHOD	26
14 PHOTOGRAPHS – MODEL YX-BM0X TEST SETUP	27
14.1 RADIATED EMISSION	27
15 PHOTOGRAPHS - CONSTRUCTIONAL DETAILS	30
15.1 MODEL YX-BM0X – EXTERNAL VIEW	30

4 General Information

4.1 General Description of E.U.T.

Product Name:	Bluetooth module
Model No.:	YX-BM0X
Model Difference:	N/A
Operation Frequency:	2402MHz ~ 2480MHz, separated by 2MHz,40 channels in total
The lowest oscillator:	32.768kHz
Type of modulation:	GFSK(BLE only)

4.2 Details of E.U.T.

Technical Data:	DC1.8-3.6V
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4.3 Channel List

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	1	2404	2	2406	3	2408
4	2410	5	2412	6	2414	7	2416
8	2418	9	2420	10	2422	11	2424
12	2426	13	2428	14	2430	15	2432
16	2434	17	2436	18	2438	19	2440
20	2442	21	2444	22	2446	23	2448
24	2450	25	2452	26	2454	27	2456
28	2458	29	2460	30	2462	31	2464
32	2466	33	2468	34	2470	35	2472
36	2474	37	2476	38	2478	39	2480

4.4 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Table 1 Tests Carried Out Under FCC part 15.247

Test mode	Low channel	Middle channel	High channel
Transmitting	2402MHz	2440MHz	2480MHz

Table 2 Tests Carried Out Under FCC part 15.209

Test Item	Test Mode
Radiated Emissions	Communication

4.5 Test Facility

The test facility has a test site registered with the following organizations:

- **FCC Test Site 1#– Registration No.: 880581**

Waltek Services(Shenzhen) Co., Ltd. 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 880581, April 29, 2014.

- **FCC Test Site 2#– Registration No.: 328995**

Waltek Services(Shenzhen) Co., Ltd. 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 328995, December 3, 2014.

5 Equipment Used during Test

5.1 Equipments List

3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMC Analyzer	Agilent	E7405A	MY45114943	Sep.15,2014	Sep.14,2015
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Sep.15,2014	Sep.14,2015
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.19,2014	Apr.18,2015
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	Sep.15,2014	Sep.14,2015
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.19,2014	Apr.18,2015
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.19,2014	Apr.18,2015
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Mar.17,2014	Mar.16,2015
8	Coaxial Cable (above 1GHz)	Top	1GHz-25GHz	EW02014-7	Apr.10,2014	Apr.09,2015
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	Sep.15,2014	Sep.14,2015
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	Sep.15,2014	Sep.14,2015
3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	Sep.15,2014	Sep.14,2015
4	Cable	HUBER+SUHNER	CBL2	525178	Sep.15,2014	Sep.14,2015
RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	Sep.15,2014	Sep.14,2015
2.	Spectrum Analyzer (9k-6GHz)	R&S	FSL6	100959	Sep.15,2014	Sep.14,2015
3.	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	Sep.15,2014	Sep.14,2015

5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
Plug&Glow Smart LED	Winplus	LM55369	N/A

5.3 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
Radiated Spurious Emissions test	± 5.03 dB (Bilog antenna 30M~1000MHz)
	± 4.74 dB (Horn antenna 1000M~25000MHz)
Conducted Spurious Emissions test	± 3.64 dB (AC mains 150KHz~30MHz)

5.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

6 Conducted Emissions

Test Requirement:	FCC CFR 47 Part 15 Section 15.207
Test Method:	ANSI C63.4:2003
Test Result:	N/A
Frequency Range:	150kHz to 30MHz
Class/Severity:	Class B
Limit:	66-56 dB μ V between 0.15MHz & 0.5MHz 56 dB μ V between 0.5MHz & 5MHz 60 dB μ V between 5MHz & 30MHz
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth)
Remark:	This is a battery powered device. This test is not applicable.

7 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: ANSI C63.4:2003

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

7.1 EUT Operation

Operating Environment:

Temperature: 25.5 °C

Humidity: 51 % RH

Atmospheric Pressure: 1016 mbar

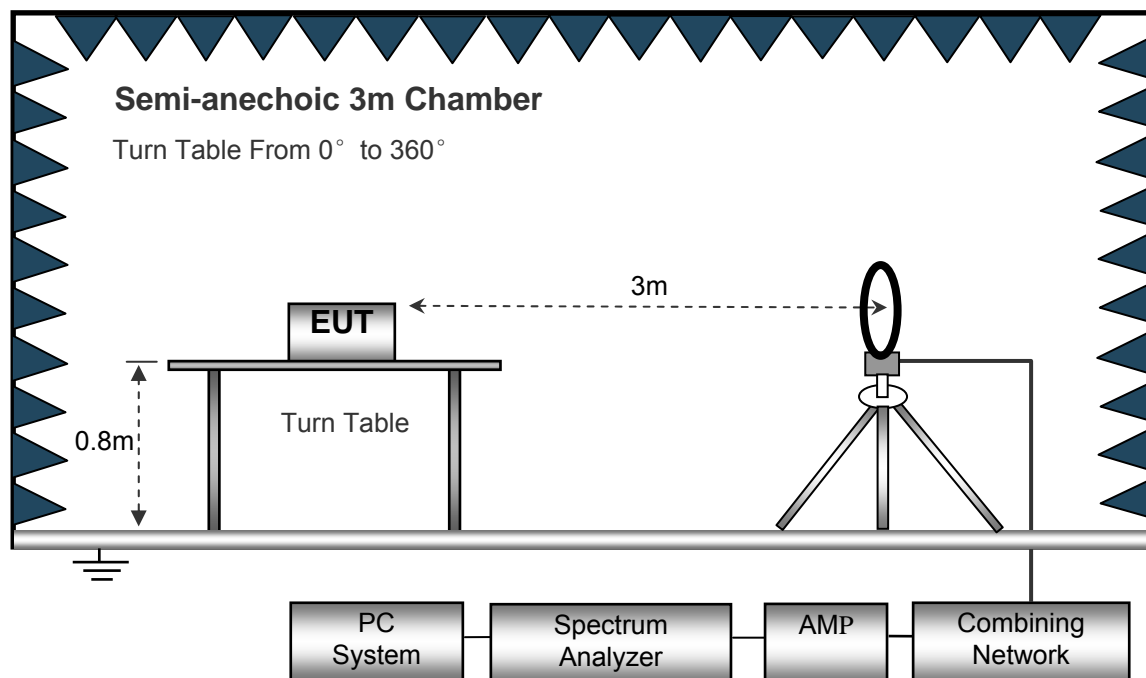
EUT Operation:

The test was performed in transmitting GFSK(BLE) Low/High Channel mode, the test data were shown in the report.

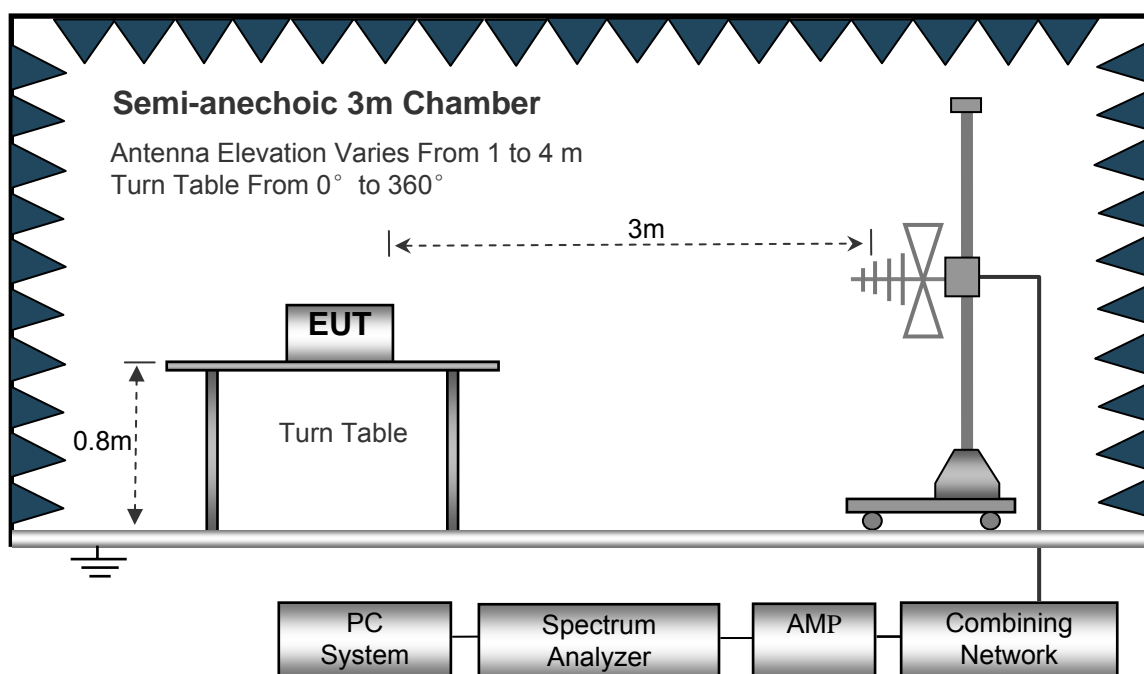
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4: 2003.

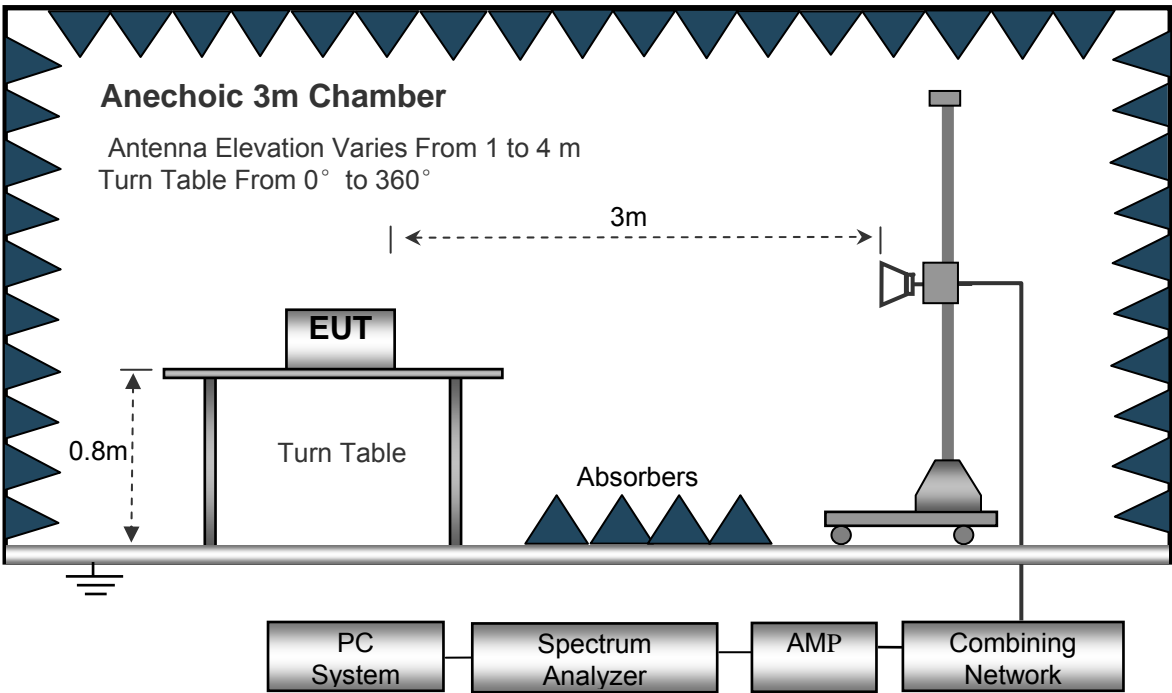
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



7.3 Spectrum Analyzer Setup

Below 30MHz

- Sweep Speed Auto
- IF Bandwidth.....10kHz
- Video Bandwidth.....10kHz
- Resolution Bandwidth.....10kHz

30MHz ~ 1GHz

- Sweep Speed Auto
- DetectorPK
- Resolution Bandwidth.....100kHz
- Video Bandwidth.....300kHz

Above 1GHz

- Sweep Speed Auto
- DetectorPK
- Resolution Bandwidth.....1MHz
- Video Bandwidth.....3MHz
- DetectorAve.
- Resolution Bandwidth.....1MHz
- Video Bandwidth.....10Hz

7.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in X axis,so the worst data were shown as follow.

7.5 Summary of Test Results

Test Frequency: 32.768kHz~30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency: 30MHz ~ 18GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
GFSK Low Channel									
230.88	25.39	QP	309	1.5	H	12.98	38.37	46.00	-7.63
230.98	20.25	QP	159	1.9	V	12.98	33.23	46.00	-12.77
4804.00	46.67	PK	287	1.6	V	-1.06	45.61	74.00	-28.39
4804.00	42.78	Ave	287	1.6	V	-1.06	41.72	54.00	-12.28
7206.00	41.55	PK	38	1.4	H	1.33	42.88	74.00	-31.12
7206.00	36.81	Ave	38	1.4	H	1.33	38.14	54.00	-15.86
2315.92	46.22	PK	199	1.1	V	-13.19	33.03	74.00	-40.97
2315.92	38.44	Ave	199	1.1	V	-13.19	25.25	54.00	-28.75
2367.42	44.57	PK	113	1.1	H	-13.14	31.43	74.00	-42.57
2367.42	37.56	Ave	113	1.1	H	-13.14	24.42	54.00	-29.58
2483.65	42.82	PK	192	1.1	V	-13.08	29.74	74.00	-44.26
2483.65	36.16	Ave	192	1.1	V	-13.08	23.08	54.00	-30.92

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
GFSK Middle Channel									
230.88	25.19	QP	245	1.1	H	12.98	38.17	46.00	-7.83
230.98	21.42	QP	68	1.1	V	12.98	34.40	46.00	-11.60
4880.00	45.52	PK	106	1.5	V	-0.62	44.90	74.00	-29.10
4880.00	43.80	Ave	106	1.5	V	-0.62	43.18	54.00	-10.82
7320.00	41.75	PK	276	1.6	H	2.21	43.96	74.00	-30.04
7320.00	36.37	Ave	276	1.6	H	2.21	38.58	54.00	-15.42
2338.77	45.92	PK	76	1.2	V	-13.19	32.73	74.00	-41.27
2338.77	38.66	Ave	76	1.2	V	-13.19	25.47	54.00	-28.53
2374.63	44.31	PK	145	1.8	H	-13.14	31.17	74.00	-42.83
2374.63	36.54	Ave	145	1.8	H	-13.14	23.40	54.00	-30.60
2496.55	43.86	PK	82	1.8	V	-13.08	30.78	74.00	-43.22
2496.55	36.56	Ave	82	1.8	V	-13.08	23.48	54.00	-30.52

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
GFSK High Channel									
230.88	23.76	QP	312	1.3	H	12.98	36.74	46.00	-9.26
230.98	21.41	QP	185	1.4	V	12.98	34.39	46.00	-11.61
4960.00	44.65	PK	117	1.3	V	-0.24	44.41	74.00	-29.59
4960.00	45.28	Ave	117	1.3	V	-0.24	45.04	54.00	-8.96
7440.00	41.62	PK	17	1.8	H	2.84	44.46	74.00	-29.54
7440.00	35.61	Ave	17	1.8	H	2.84	38.45	54.00	-15.55
2325.32	46.87	PK	268	1.8	V	-13.19	33.68	74.00	-40.32
2325.32	37.83	Ave	268	1.8	V	-13.19	24.64	54.00	-29.36
2370.25	42.84	PK	11	1.7	H	-13.14	29.70	74.00	-44.30
2370.25	36.31	Ave	11	1.7	H	-13.14	23.17	54.00	-30.83
2497.91	42.37	PK	263	2.0	V	-13.08	29.29	74.00	-44.71
2497.91	37.47	Ave	263	2.0	V	-13.08	24.39	54.00	-29.61

Test Frequency: 18GHz~25GHz

The measurements were more than 20 dB below the limit and not reported

8 Band Edge Measurement

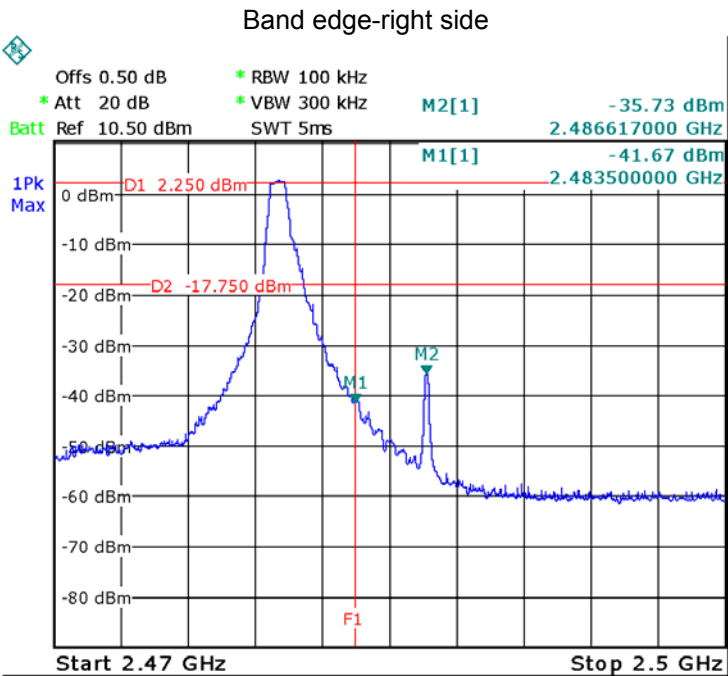
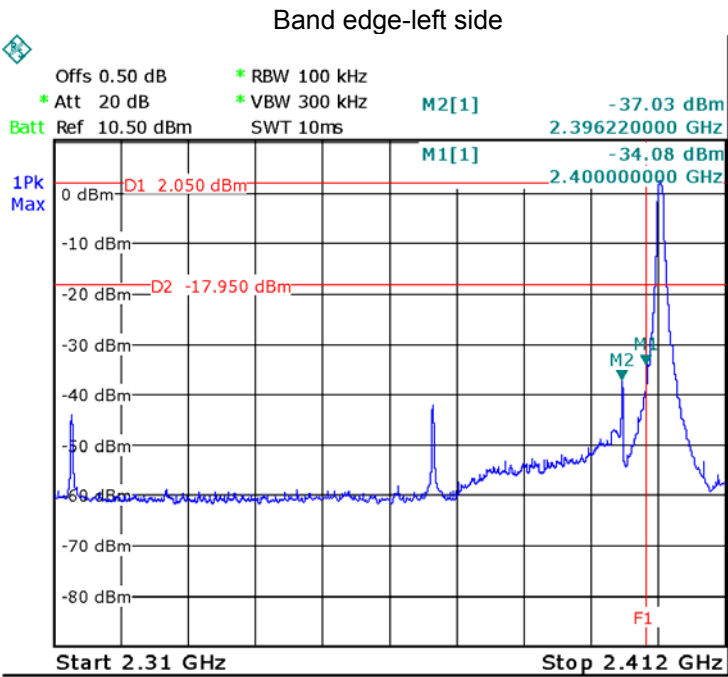
Test Requirement:	Section 15.247(d) In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) and 15.205(c).
Test Method:	KDB558074 D01 DTS Meas Guidance v03r03
Test Limit:	Regulation 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 §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
Test Mode:	Transmitting

8.1 Test Produce

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz, Sweep = auto

Detector function = peak, Trace = max hold
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

8.2 Test Result



9 6 dB Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB558074 D01 DTS Meas Guidance v03r03

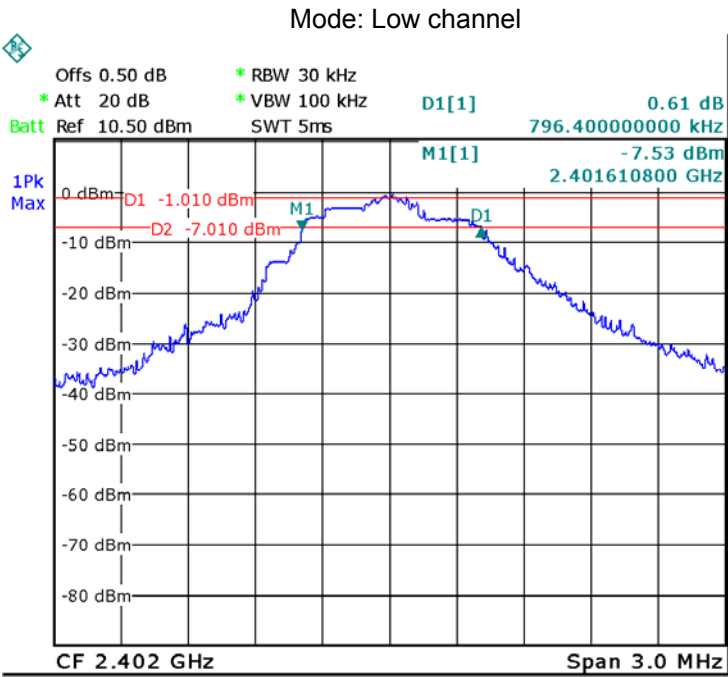
9.1 Test Procedure

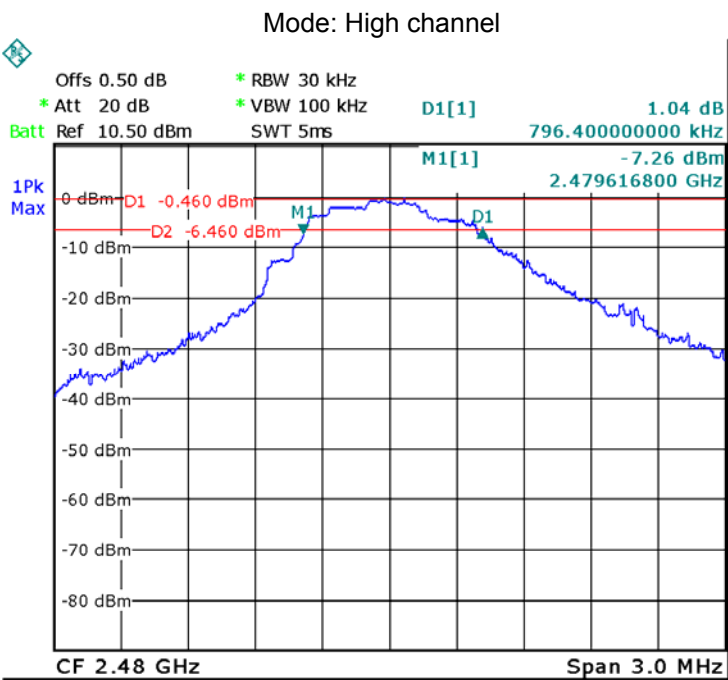
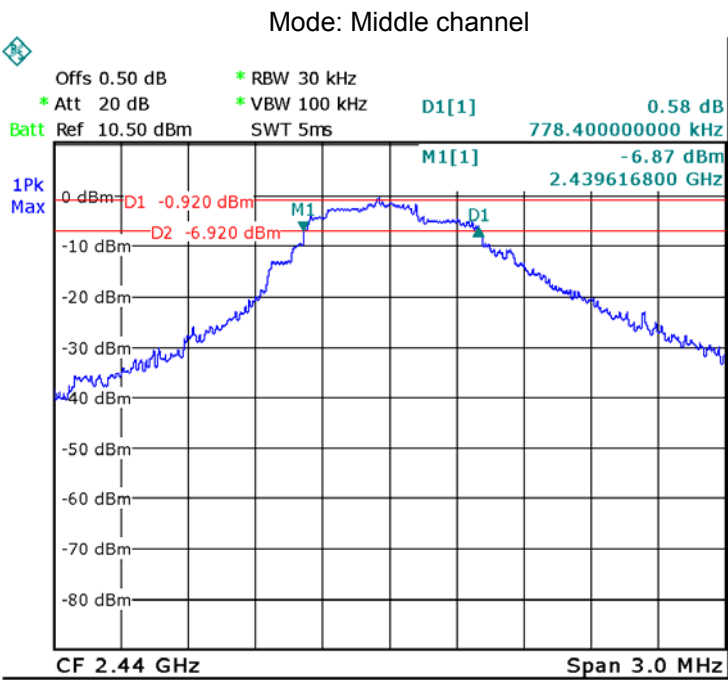
- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
- 2. Set the spectrum analyzer: RBW = 30kHz, VBW = 100kHz

9.2 Test Result

Operation mode	Bandwidth (MHz)
Low channel	0.796
Middle channel	0.778
High channel	0.796

Test result plot as follows:





10 Maximum Peak Output Power

Test Requirement:

FCC CFR47 Part 15 Section 15.247

Test Method:

KDB558074 D01 DTS Meas Guidance v03r03

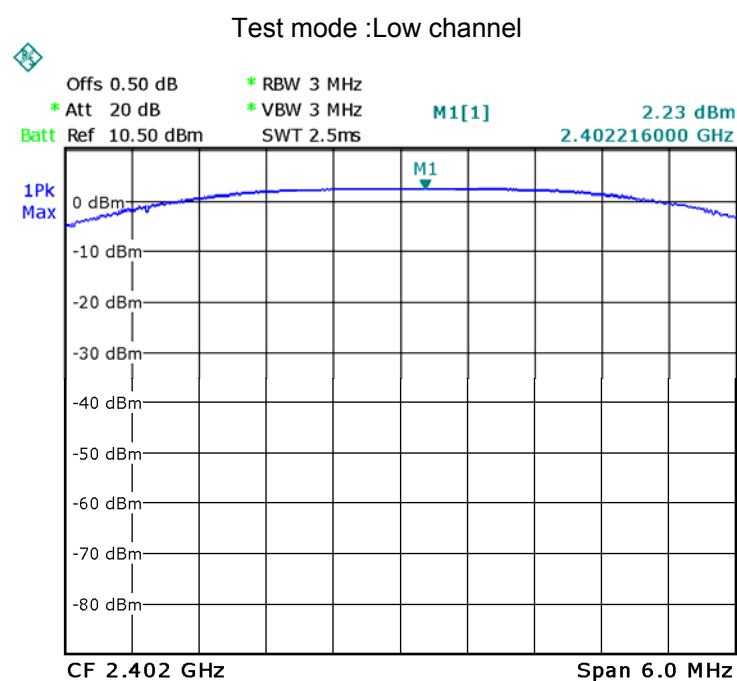
10.1 Test Procedure

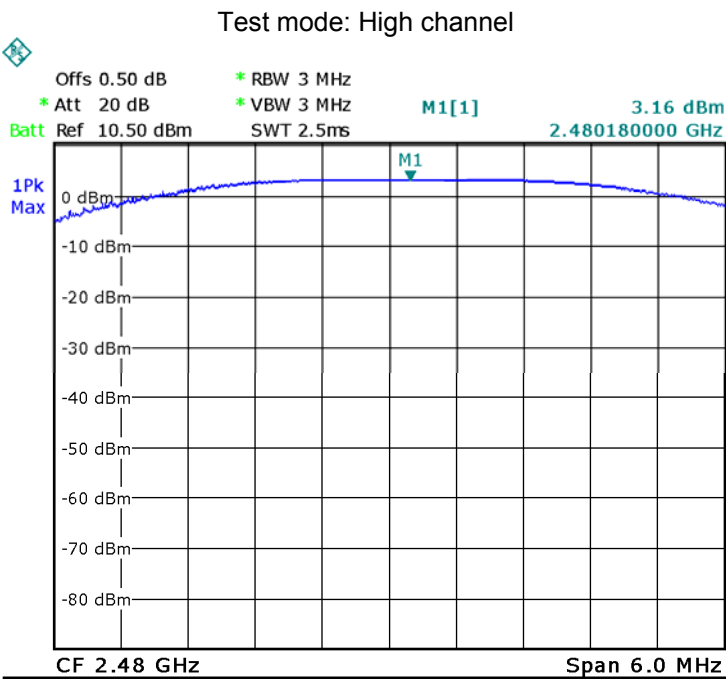
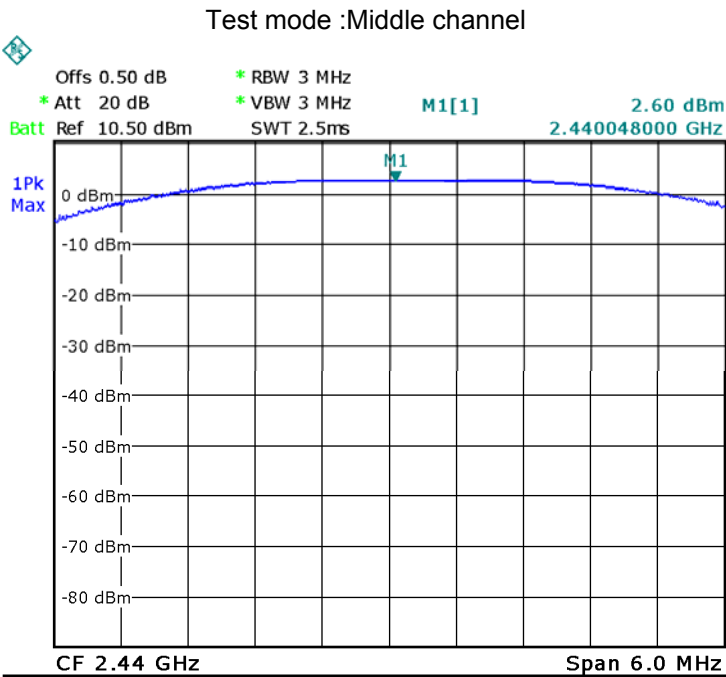
KDB558074 D01 DTS Meas Guidance v03r03 section 8.1.2 Option 2

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3MHz. VBW = 3MHz. Sweep = auto; Detector Function = Peak, Set the span to fully encompass the DTS bandwidth.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

10.2 Test Result

Test Mode	Data Rate	Peak Power(dBm)		
		CH00	CH19	CH39
GFSK BLE	1Mbps	2.23	2.60	3.16





11 Power Spectral density

Test Requirement:

FCC CFR47 Part 15 Section 15.247

Test Method:

KDB558074 D01 DTS Meas Guidance v03r03

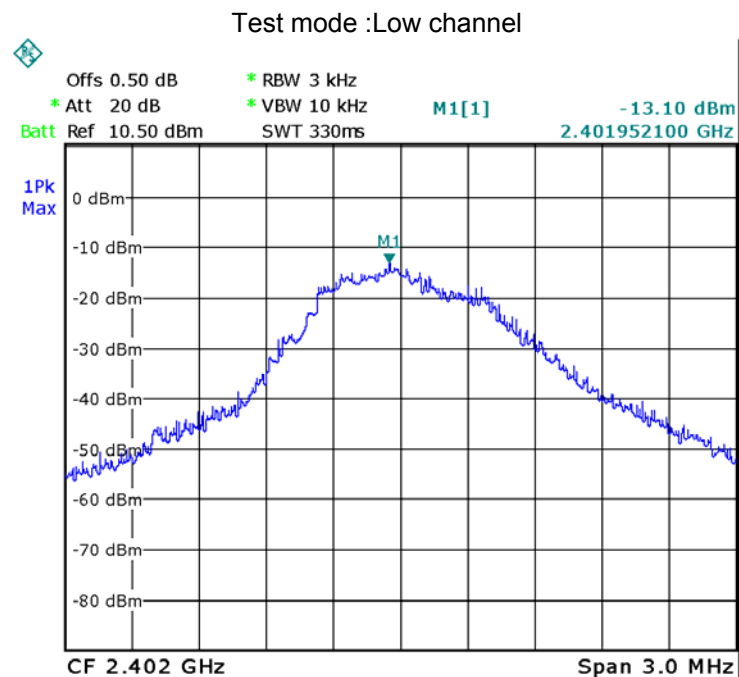
11.1 Test Procedure

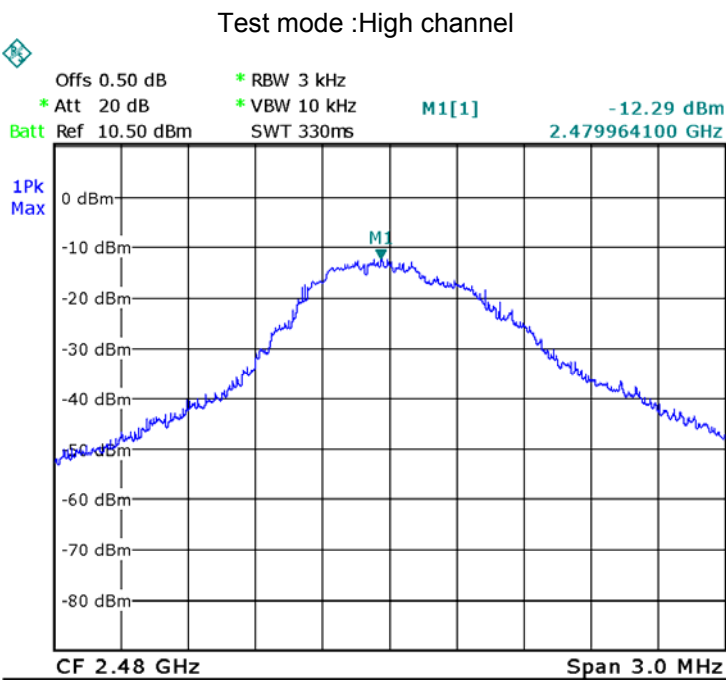
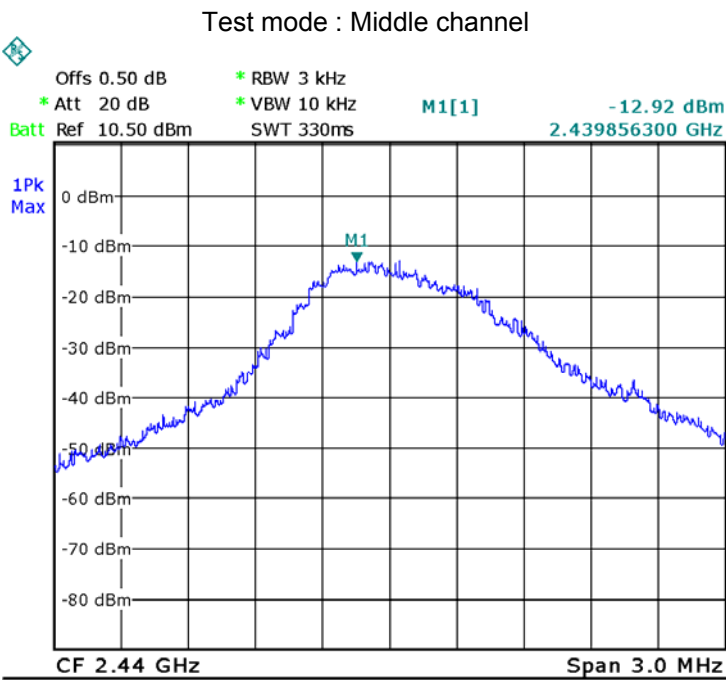
KDB558074 D01 DTS Meas Guidance v03r03 section 9.1 Option 1

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section
Submit this plot.

11.2 Test Result

Power Spectral Density		
Low channel	Middle channel	High channel
-13.10	-12.92	-12.29
Limit		
8dBm per 3kHz		





12 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This product has a PCB printed antenna, fulfill the requirement of this section.

13 RF Exposure

Test Requirement: FCC Part 1.1307

Test Mode: The EUT work in test mode(Tx).

13.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

13.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

13.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

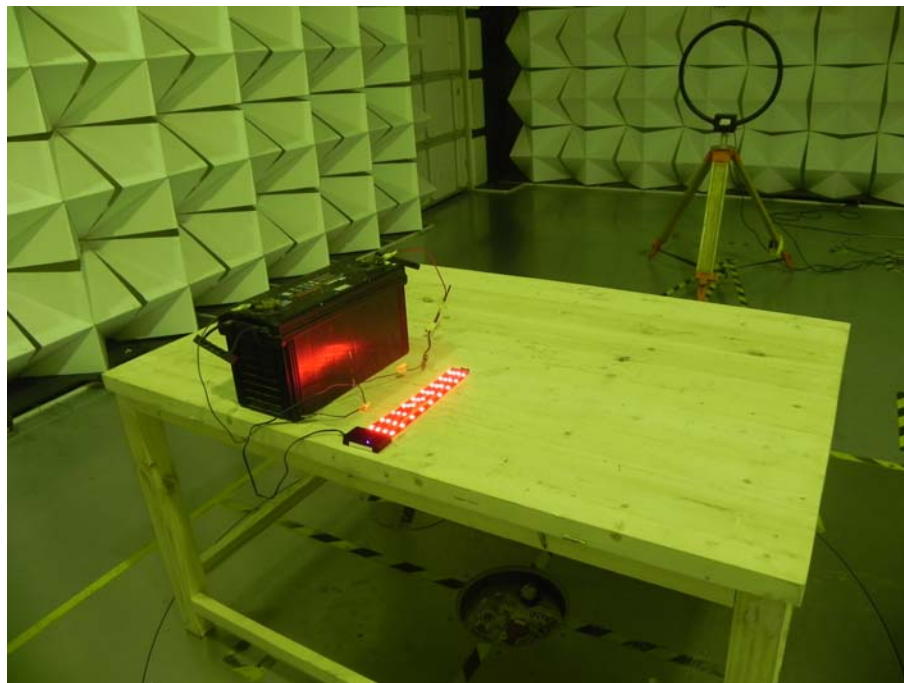
From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

Antenna Gain (numeric)	Max.Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)
1.000	3.16	2.07	0.000412	1

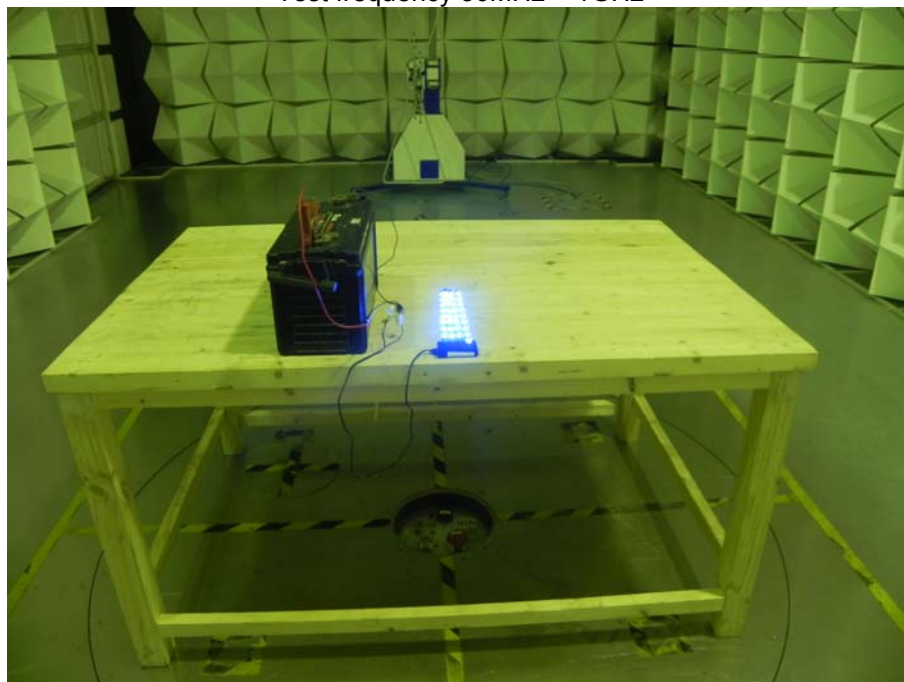
14 Photographs – Model YX-BM0X Test Setup

14.1 Radiated Emission

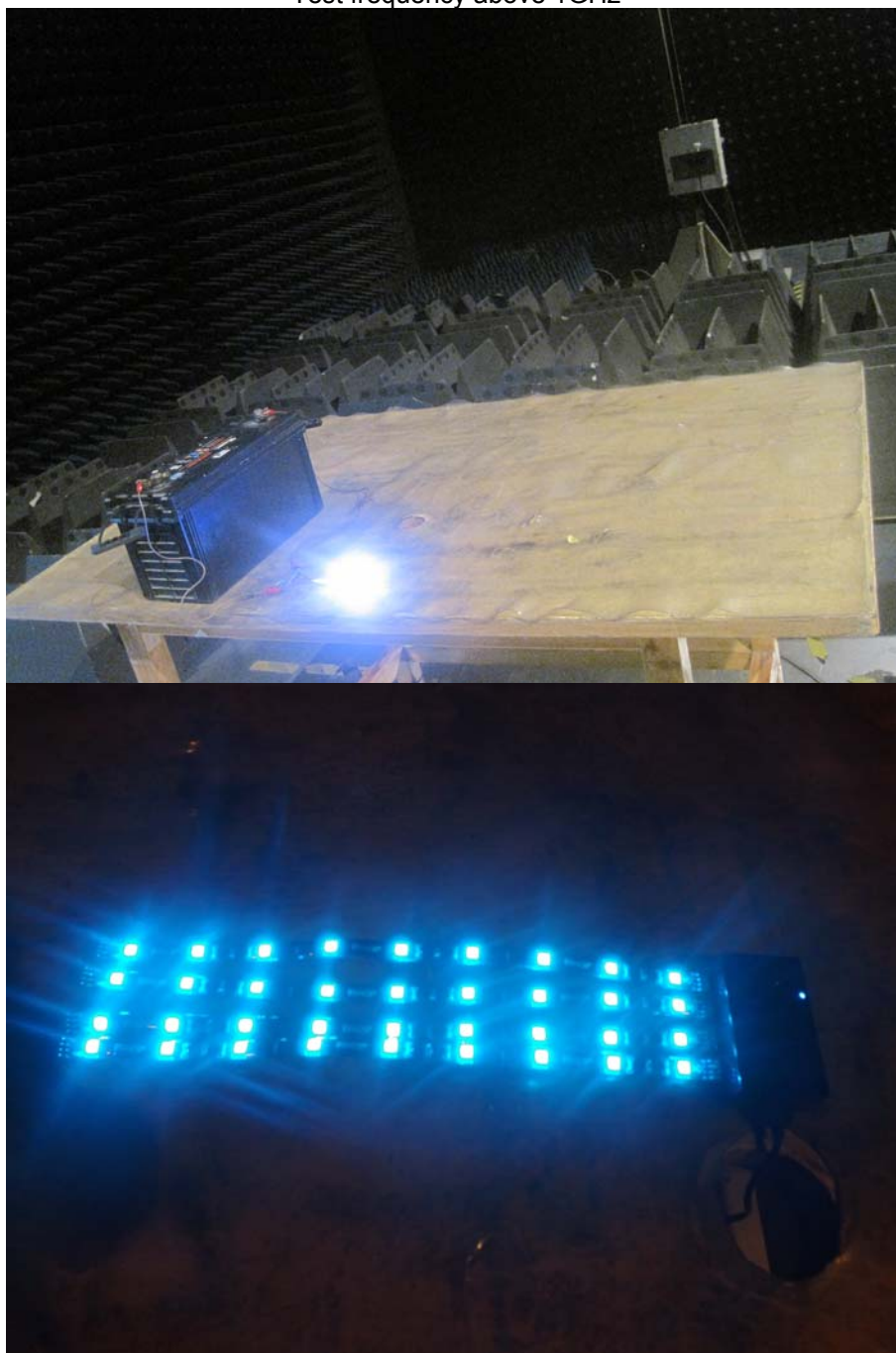
Test frequency below 30MHz



Test frequency 30MHz - 1GHz



Test frequency above 1GHz

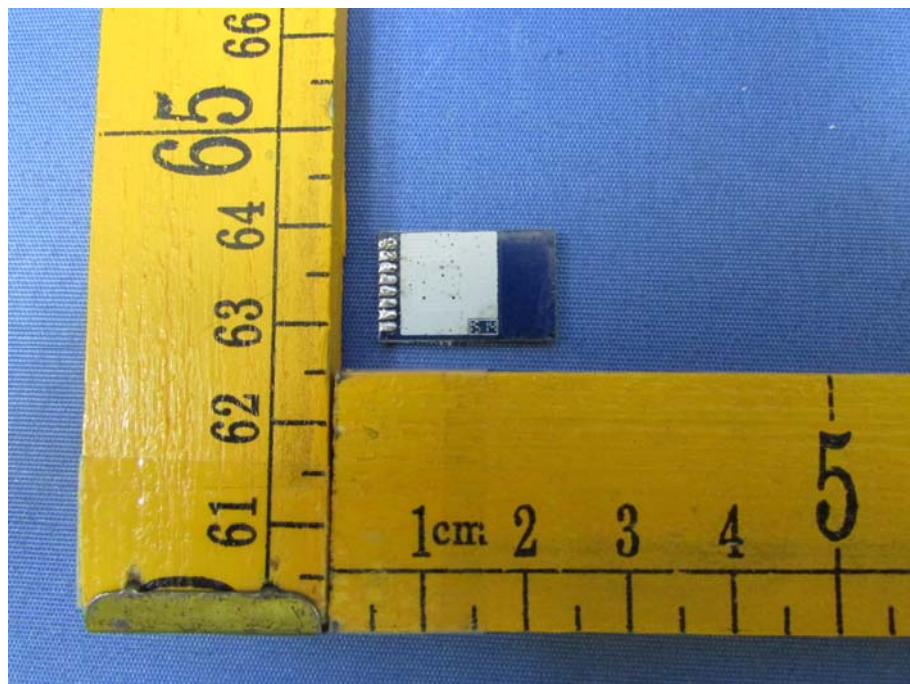
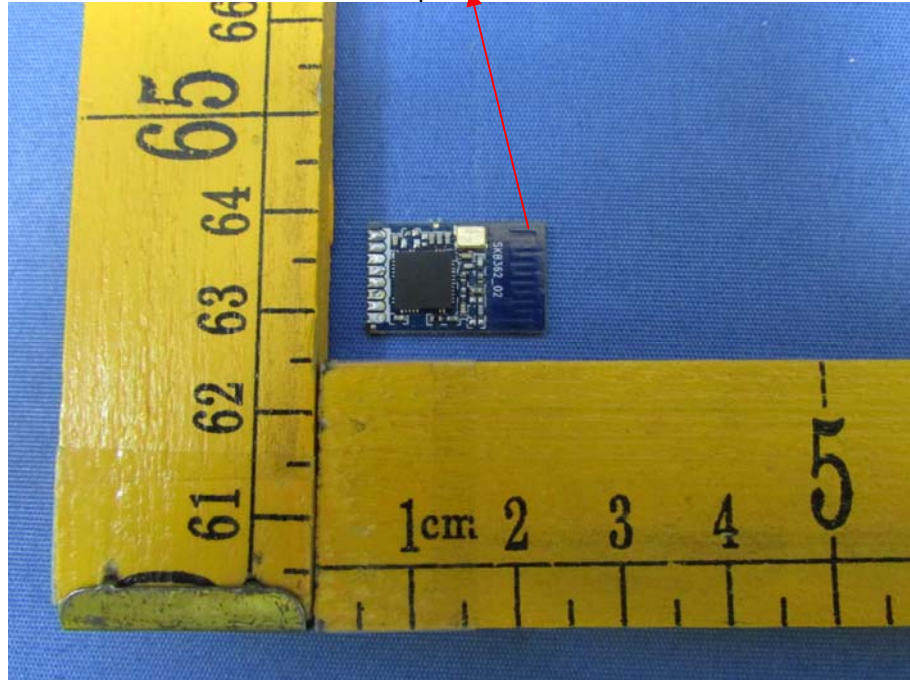




15 Photographs - Constructional Details

15.1 Model YX-BM0X – External View

PCB printed ANT.



=====End of Report=====