TEST REPORT

Product	:	Open Frame
Trade mark	:	OUTFORM
Model/Type reference	:	UIO0421B-C02,UIO0418X-XYY, UIO0424X-XYY, UIO0421X-XYY,The 1st X is “A” or “B” represents the agent or the client; The 2nd X is A-Z represents the color; YY is client number from “01” to “90”
Serial Number	:	N/A
Report Number	:	EED32L00017402
FCC ID	:	2AO9X-UIO0421BC02
Date of Issue	:	May 14, 2019
Test Standards	:	47 CFR Part 15Subpart C
Test result	:	PASS

Prepared for:

Outform Science and Technology Ltd.
No. A103 Medical Appliance and Industry Garden, #1019, Nanhai Road.
Nanshan district ,Shenzhen 518035 China

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Zone, Bao’an 70 District,
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Date:	May 14, 2019		Check No.:3096381924

CENTRE TESTING INTERNATIONAL GROUP CO.,LTD. Report Seal

2 Version

Version No.	Date	Description
00	May 14, 2019	Original

3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15Subpart C Section 15.203/15.247 (c)	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15Subpart C Section 15.207	ANSI C63.10-2013	PASS
Conducted Peak Output Power	47 CFR Part 15Subpart C Section 15.247 (b)(3)	ANSI C63.10-2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15Subpart C Section 15.247 (a)(2)	ANSI C63.10-2013	PASS
Power Spectral Density	47 CFR Part 15Subpart C Section 15.247 (e)	ANSI C63.10-2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
Radiated Spurious Emissions	47 CFR Part 15Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS

Remark:

Test according to ANSI C63.4-2014 & ANSI C63.10-2013.
The tested sample(s) and the sample information are provided by the client.

Model No.: UIO0421B-C02,UIO0418X-XYY, UIO0424X-XYY, UIO0421X-XYY,The 1st X is “A” or “B” represents the agent or the client; The 2nd X is A-Z represents the color; YY is client number from “01” to “90”

Only the model UIO0418X-XYY was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being the color and model names due to difference agent and marketing pruposes.

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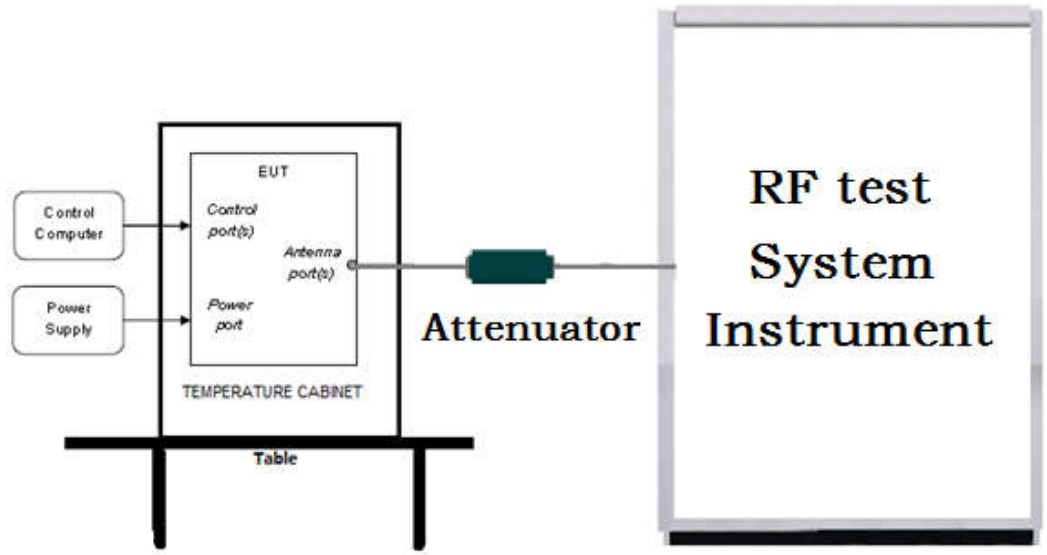
5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

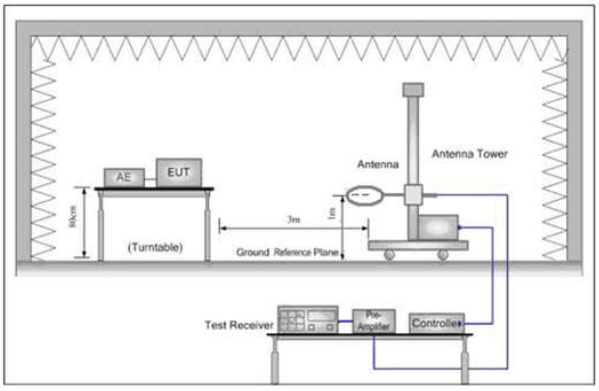


Figure 1. Below 30MHz

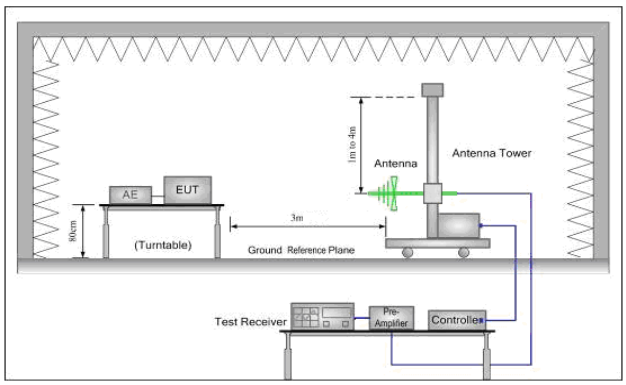


Figure 2. 30MHz to 1GHz

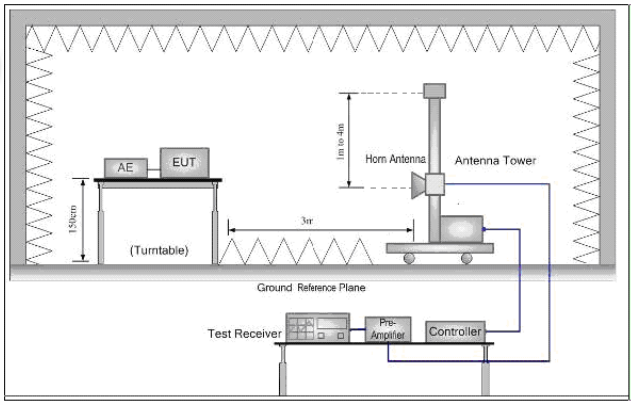
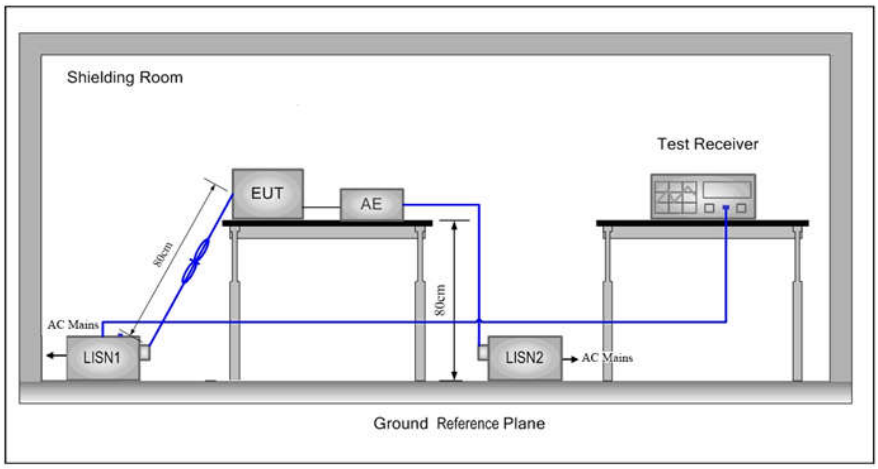


Figure 3. Above 1GHz

5.1.3 For Conducted Emissions test setup

Conducted Emissions setup



5.2 Test Environment

Operating Environment:	
Temperature:	25.0 °C
Humidity:	53 % RH
Atmospheric Pressure:	1010mbar

5.3 Test Condition

Test channel:

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(M)	High(H)
GFSK	2402MHz ~2480 MHz	Channel 1	Channel 20	Channel 40
		2402MHz	2440MHz	2480MHz
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.			

6 General Information

6.1 Client Information

Applicant:	Outform Science and Technology Ltd.
Address of Applicant:	No. A103 Medical Appliance and Industry Garden, #1019, Nanhai Road. Nanshan district ,Shenzhen 518035 China
Manufacturer:	Outform Science and Technology Ltd.
Address of Manufacturer:	No. A103 Medical Appliance and Industry Garden, #1019, Nanhai Road. Nanshan district ,Shenzhen 518035 China
Factory:	Outform Science and Technology Ltd.
Address of Factory:	No. A103 Medical Appliance and Industry Garden, #1019, Nanhai Road. Nanshan district ,Shenzhen 518035 China

6.2 General Description of EUT

Product Name:	Open Frame	
Model No.(EUT):	UIO0421B-C02,UIO0418X-XYY, UIO0424X-XYY, UIO0421X-XYY,The 1st X is “A” or “B” represents the agent or the client; The 2nd X is A-Z represents the color; YY is client number from “01” to “90”	
Test Model No.:	UIO0421B-C02	
Trade mark:	OUTFORM	
EUT Supports Radios application:	BT: 4.0 BT single mode, 2402MHz to 2480MHz WiFi: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz	
Power Supply:	Adapter	Model: EA10681U-120 Input: 100-240VAC~2.0A, 50~60Hz Output: 12V⎓6A
Sample Received Date:	Jan. 24, 2019	
Sample tested Date:	May 08, 2019 to May 09, 2019	

6.3 Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	4.0
Modulation Technique:	DSSS
Modulation Type:	GFSK
Number of Channel:	40
Antenna Type and Gain:	Type: omnidirectional antenna Gain: 5dBi
Test Voltage:	AC 120V,60Hz

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
3	2406MHz	13	2426MHz	23	2446MHz	33	2466MHz
4	2408MHz	14	2428MHz	24	2448MHz	34	2468MHz
5	2410MHz	15	2430MHz	25	2450MHz	35	2470MHz
6	2412MHz	16	2432MHz	26	2452MHz	36	2472MHz
7	2414MHz	17	2434MHz	27	2454MHz	37	2474MHz
8	2416MHz	18	2436MHz	28	2456MHz	38	2476MHz
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

6.4 Description of Support Units

The EUT has been tested independently

6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China
Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385
No tests were sub-contracted.
FCC Designation No.: CN1164

6.6 Deviation from Standards

None.

6.7 Abnormalities from Standard Conditions

None.

6.8 Other Information Requested by the Customer

None.

6.9 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-18GHz)
3	Radiated Spurious emission test	4.3dB (30MHz-1GHz)
		4.5dB (1GHz-12.75GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

7 Equipment List

RF test system					
Equipment	**Manufacturer**	**Model No.**	**Serial Number**	**Cal. Date (mm-dd-yyyy)**	**Cal. Due date (mm-dd-yyyy)**
Signal Generator	Keysight	E8257D	MY53401106	03-01-2019	02-28-2020
Spectrum Analyzer	Keysight	N9010A	MY54510339	03-01-2019	02-28-2020
Signal Generator	Keysight	N5182B	MY53051549	03-01-2019	02-28-2020
High-pass filter	Sinoscite	FL3CX03WG18NM12-0398-002	---	01-09-2019	01-08-2020
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	01-09-2019	01-08-2020
DC Power	Keysight	E3642A	MY54426035	03-01-2019	02-28-2020
PC-1	Lenovo	R4960d	---	03-01-2019	02-28-2020
BT&WI-FI Automatic control	R&S	OSP120	101374	03-01-2019	02-28-2020
RF control unit	JS Tonscend	JS0806-2	15860006	03-01-2019	02-28-2020
RF control unit	JS Tonscend	JS0806-1	15860004	03-01-2019	02-28-2020
RF control unit	JS Tonscend	JS0806-4	158060007	03-01-2019	02-28-2020
BT&WI-FI Automatic test software	JS Tonscend	JS1120-2	---	03-01-2019	02-28-2020
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	10-12-2018	10-11-2019

Conducted disturbance Test					
Equipment	**Manufacturer**	**Model No.**	**Serial Number**	**Cal. date (mm-dd-yyyy)**	**Cal. Due date (mm-dd-yyyy)**
Receiver	R&S	ESCI	100435	05-25-2018	05-24-2019
Temperature/ Humidity Indicator	Defu	TH128	/	07-02-2018	07-01-2019
Communication test set	Agilent	E5515C	GB47050534	03-01-2019	02-28-2020
Communication test set	R&S	CMW500	102898	01-18-2019	01-17-2020
LISN	R&S	ENV216	100098	05-10-2018	05-10-2019
LISN	schwarzbeck	NNLK8121	8121-529	05-10-2018	05-10-2019
Voltage Probe	R&S	ESH2-Z3 0299.7810.56	100042	06-13-2017	06-11-2020
Current Probe	R&S	EZ-17 816.2063.03	100106	05-30-2018	05-29-2019
ISN	TESEQ	ISN T800	30297	01-06-2019	01-15-2020

3M Semi/full-anechoic Chamber					
Equipment	**Manufacturer**	**Model No.**	**Serial Number**	**Cal. date (mm-dd-yyyy)**	**Cal. Due date (mm-dd-yyyy)**
3M Chamber & Accessory Equipment	TDK	SAC-3	---	06-04-2016	06-03-2019
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-401	12-21-2018	12-20-2019
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	07-30-2018	07-29-2019
Microwave Preamplifier	Agilent	8449B	3008A02425	08-21-2018	08-20-2019
Microwave Preamplifier	Tonscend	EMC051845SE	980380	01-16-2019	01-15-2020
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1869	04-25-2018	04-23-2021
Horn Antenna	ETS-LINDGREN	3117	00057410	06-05-2018	06-03-2021
Double ridge horn antenna	A.H.SYSTEMS	SAS-574	374	06-05-2018	06-04-2021
Pre-amplifier	A.H.SYSTEMS	PAP-1840-60	6041.6041	08-08-2018	08-07-2019
Loop Antenna	ETS	6502	00071730	06-22-2017	06-21-2019
Spectrum Analyzer	R&S	FSP40	100416	05-11-2018	05-10-2019
Receiver	R&S	ESCI	100435	05-25-2018	05-24-2019
Receiver	R&S	ESCI7	100938-003	11-23-2018	11-22-2019
Multi device Controller	maturo	NCD/070/10711112	---	01-09-2019	01-08-2020
LISN	schwarzbeck	NNBM8125	81251547	05-11-2018	05-10-2019
LISN	schwarzbeck	NNBM8125	81251548	05-11-2018	05-10-2019
Signal Generator	Agilent	E4438C	MY45095744	03-01-2019	02-28-2020
Signal Generator	Keysight	E8257D	MY53401106	03-01-2019	02-28-2020
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	10-12-2018	10-11-2019
Communication test set	Agilent	E5515C	GB47050534	03-01-2019	02-28-2020
Cable line	Fulai(7M)	SF106	5219/6A	01-09-2019	01-08-2020
Cable line	Fulai(6M)	SF106	5220/6A	01-09-2019	01-08-2020
Cable line	Fulai(3M)	SF106	5216/6A	01-09-2019	01-08-2020
Cable line	Fulai(3M)	SF106	5217/6A	01-09-2019	01-08-2020
Communication test set	R&S	CMW500	104466	01-18-2019	01-17-2020
High-pass filter	Sinoscite	FL3CX03WG18NM12-0398-002	---	01-09-2019	01-08-2020
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX01CA09CL12-0395-001	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX01CA08CL12-0393-001	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX02CA04CL12-0396-002	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX02CA03CL12-0394-001	---	01-09-2019	01-08-2020

8 Radio Technical Requirements Specification

Reference documents for testing:

No.	Identity	Document Title
1	FCC Part15C	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicesed Wireless Devices

Test Results List:

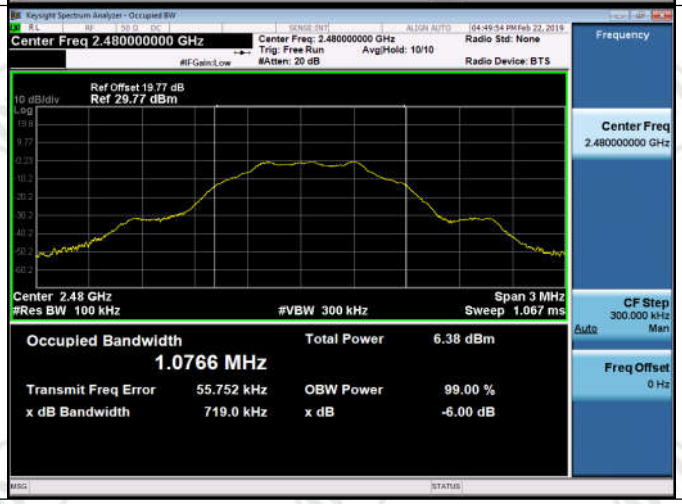
Test Requirement	Test method	Test item	Verdict	Note
Part15C Section 15.247 (a)(2)	ANSI C63.10	6dB Occupied Bandwidth	PASS	Appendix A)
Part15C Section 15.247 (b)(3)	ANSI C63.10	Conducted Peak Output Power	PASS	Appendix B)
Part15C Section 15.247(d)	ANSI C63.10	Band-edge for RF Conducted Emissions	PASS	Appendix C)
Part15C Section 15.247(d)	ANSI C63.10	RF Conducted Spurious Emissions	PASS	Appendix D)
Part15C Section 15.247 (e)	ANSI C63.10	Power Spectral Density	PASS	Appendix E)
Part15C Section 15.203/15.247 (c)	ANSI C63.10	Antenna Requirement	PASS	Appendix F)
Part15C Section 15.207	ANSI C63.10	AC Power Line Conducted Emission	PASS	Appendix G)
Part15C Section 15.205/15.209	ANSI C63.10	Restricted bands around fundamental frequency (Radiated Emission)	PASS	Appendix H)
Part15C Section 15.205/15.209	ANSI C63.10	Radiated Spurious Emissions	PASS	Appendix I)

Appendix A): 6dB Occupied Bandwidth

Test Result

Mode	Channel	6dB Bandwidth [MHz]	99% OBW[MHz]	Verdict
BLE	LCH	0.7192	1.0788	PASS
BLE	MCH	0.7222	1.0776	PASS
BLE	HCH	0.7190	1.0766	PASS

Test Graphs

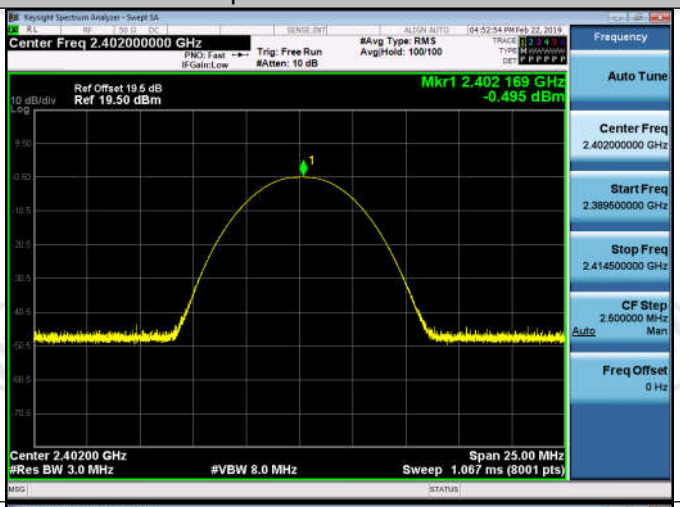
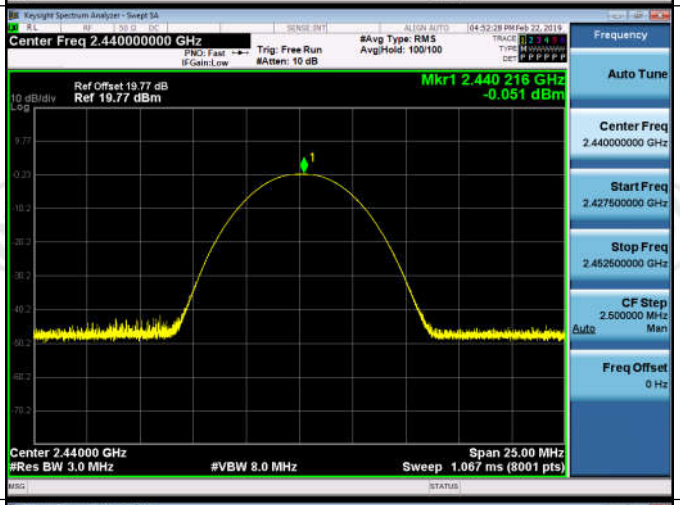
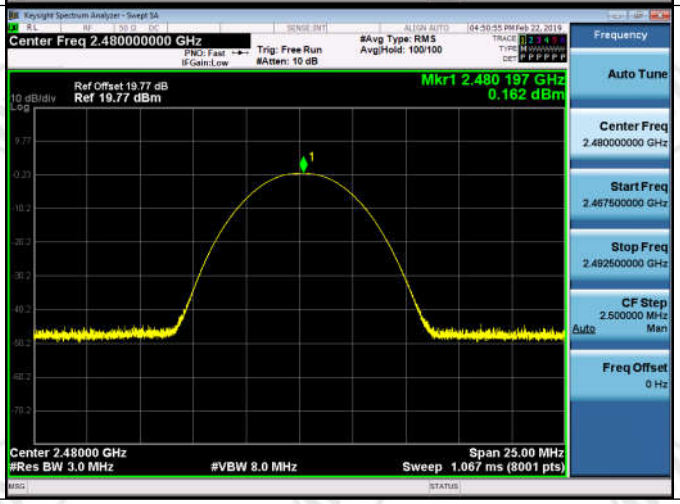
Graphs		
LCH		
MCH		
HCH		

Appendix B): Conducted Peak Output Power

Test Result

Mode	Channel	Conduct Peak Power[dBm]	Verdict
BLE	LCH	-0.495	PASS
BLE	MCH	-0.051	PASS
BLE	HCH	0.162	PASS

Test Graphs

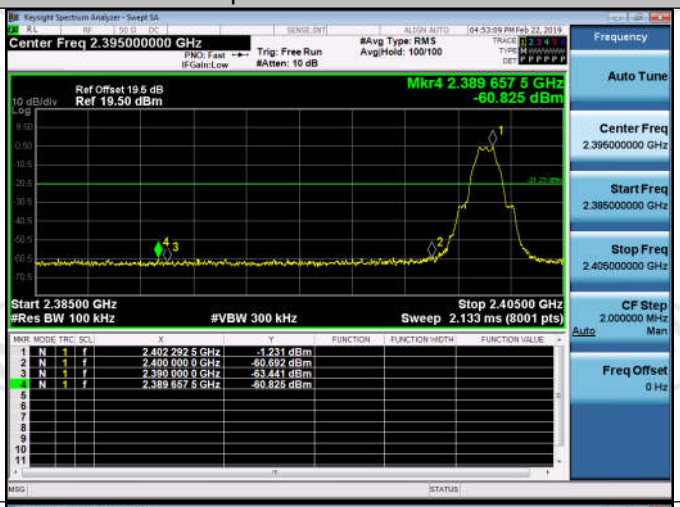
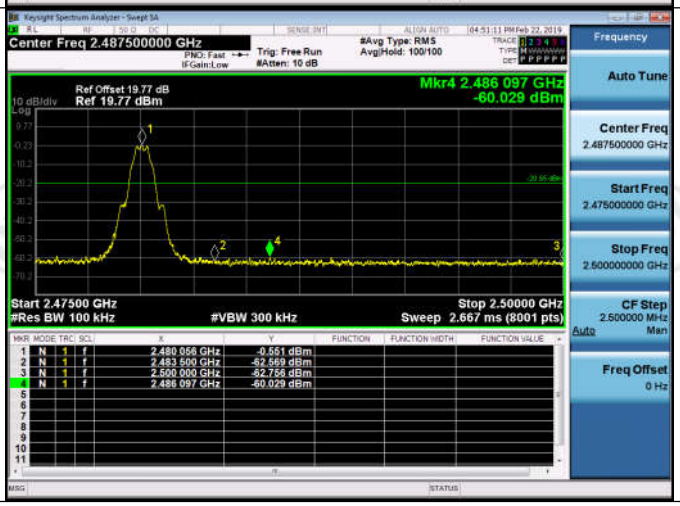
Graphs		
LCH		
MCH		
HCH		

Appendix C): Band-edge for RF Conducted Emissions

Result Table

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	LCH	-1.231	-60.825	-21.23	PASS
BLE	HCH	-0.551	-60.029	-20.55	PASS

Test Graphs

Graphs			
LCH			
HCH			

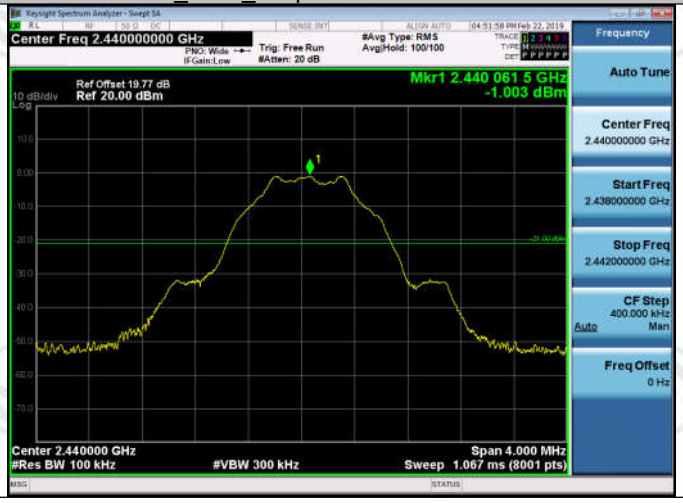
Appendix D): RF Conducted Spurious Emissions

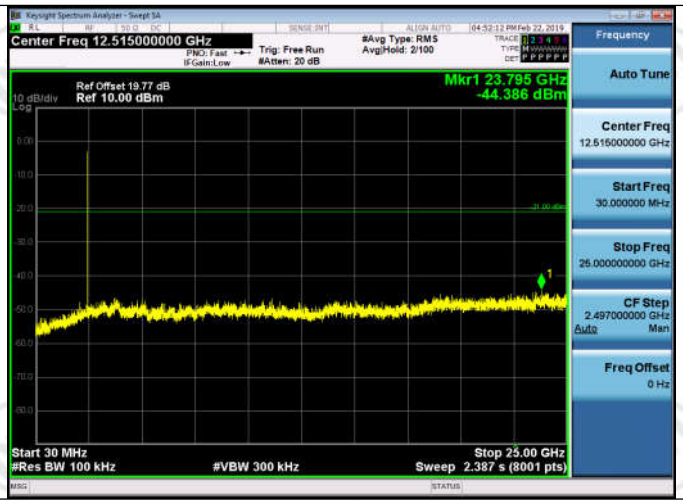
Result Table

Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
BLE	LCH	-1.442	<Limit	PASS
BLE	MCH	-1.003	<Limit	PASS
BLE	HCH	-0.794	<Limit	PASS

Test Graphs

BLE_LCH_Graphs		
Pref/BLE/LCH		
Puw/BLE/LCH		

BLE_MCH_Graphs		
Pref/BLE/MCH		

Puw/BLE/MCH	

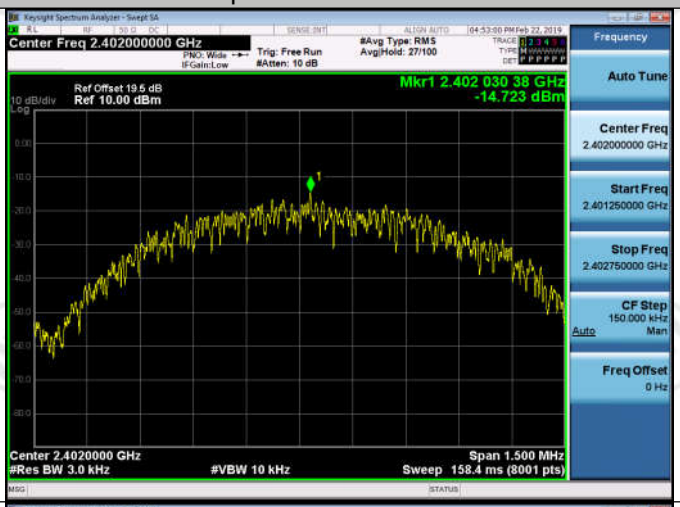
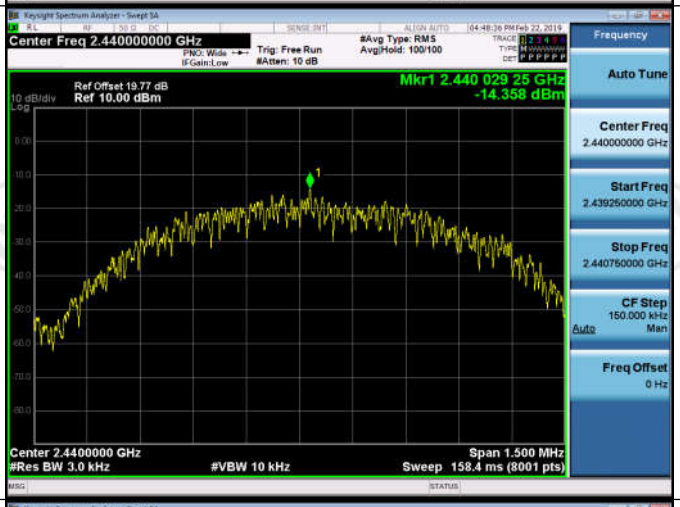
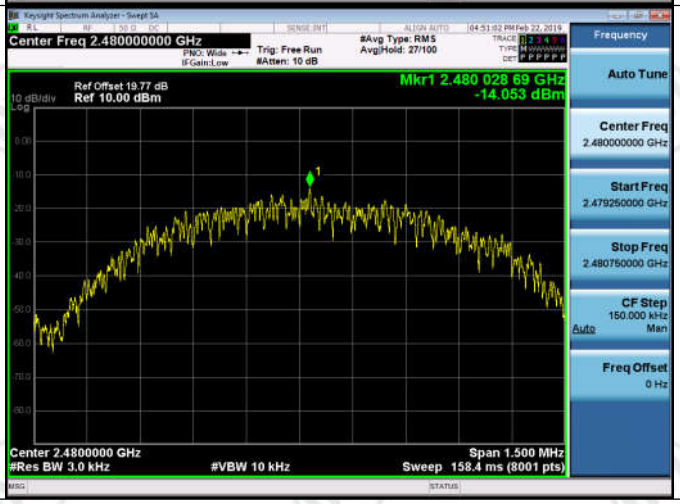
BLE_HCH_Graphs	
Pref/BLE/HCH	
Puw/BLE/HCH	

Appendix E): Power Spectral Density

Result Table

Mode	Channel	PSD [dBm]	Verdict
BLE	LCH	-14.723	PASS
BLE	MCH	-14.358	PASS
BLE	HCH	-14.053	PASS

Test Graphs

Graphs		
LCH		
MCH		
HCH		

Appendix F): Antenna Requirement

15.203 requirement:

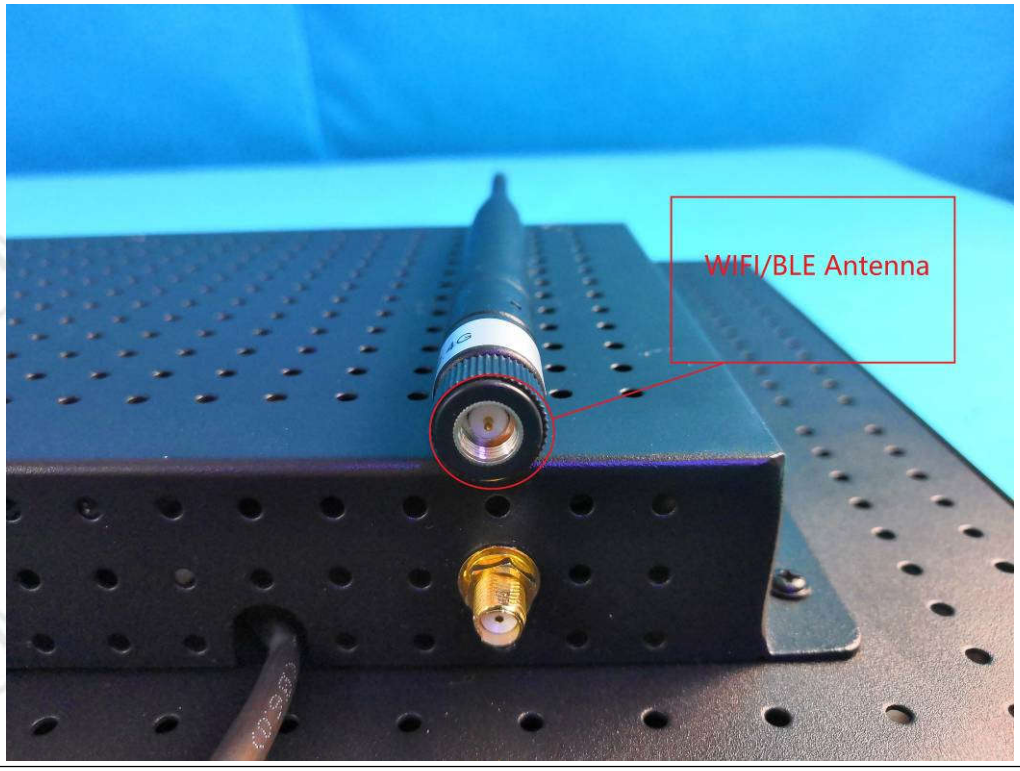
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

WIFI and BLE use the same external omnidirectional antenna with 5 dBi gain and manufacturer declare the antenna must be installed by a professional installer.



Appendix G): AC Power Line Conducted Emission

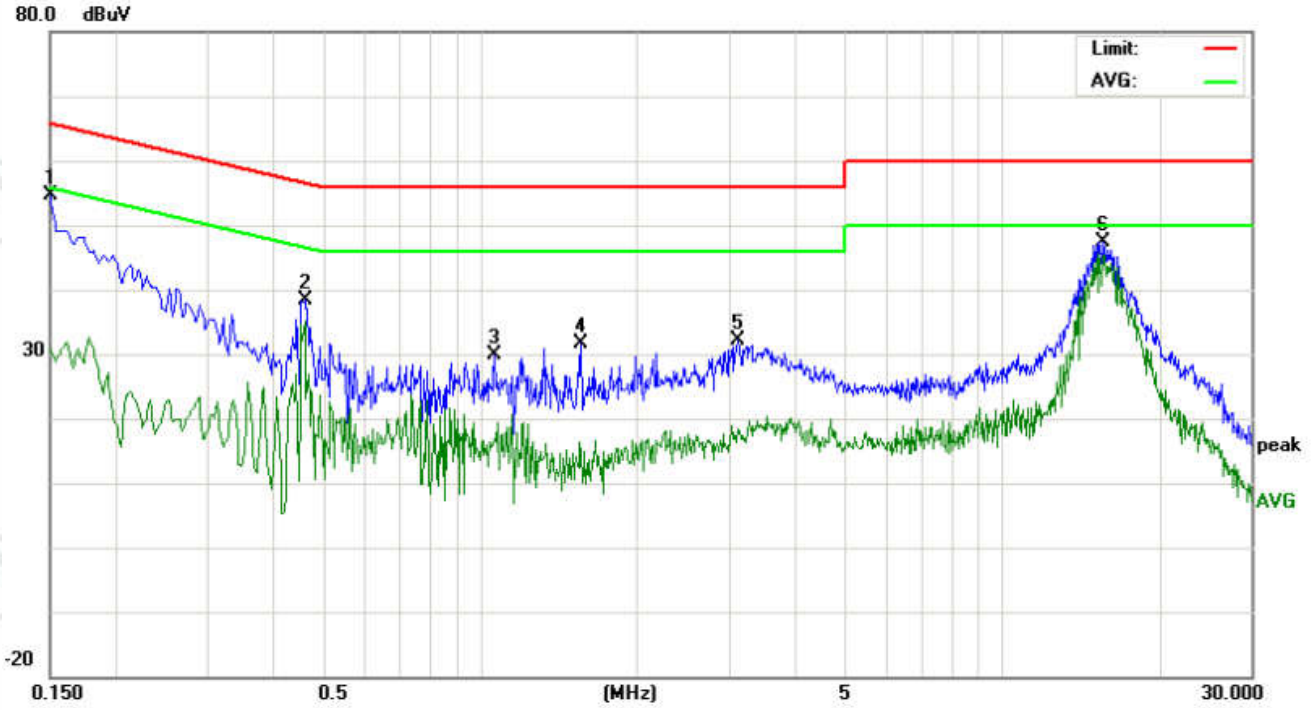
<table>
<tr><td>Test Procedure:</td><td>Test frequency range :150KHz-30MHz
1)The mains terminal disturbance voltage test was conducted in a shielded room.
2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
3)The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td rowspan="2">Frequency range (MHz)</td><td colspan="2">Limit (dBμV)</td></tr>
<tr><td>Quasi-peak</td><td>Average</td></tr>
<tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr>
<tr><td>0.5-5</td><td>56</td><td>46</td></tr>
<tr><td>5-30</td><td>60</td><td>50</td></tr>
</table>
* The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.
NOTE : The lower limit is applicable at the transition frequency</td></tr>
<tr><td>Temperature:</td><td>22℃</td><td>Humidity:</td><td>51%</td></tr>
</table>

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

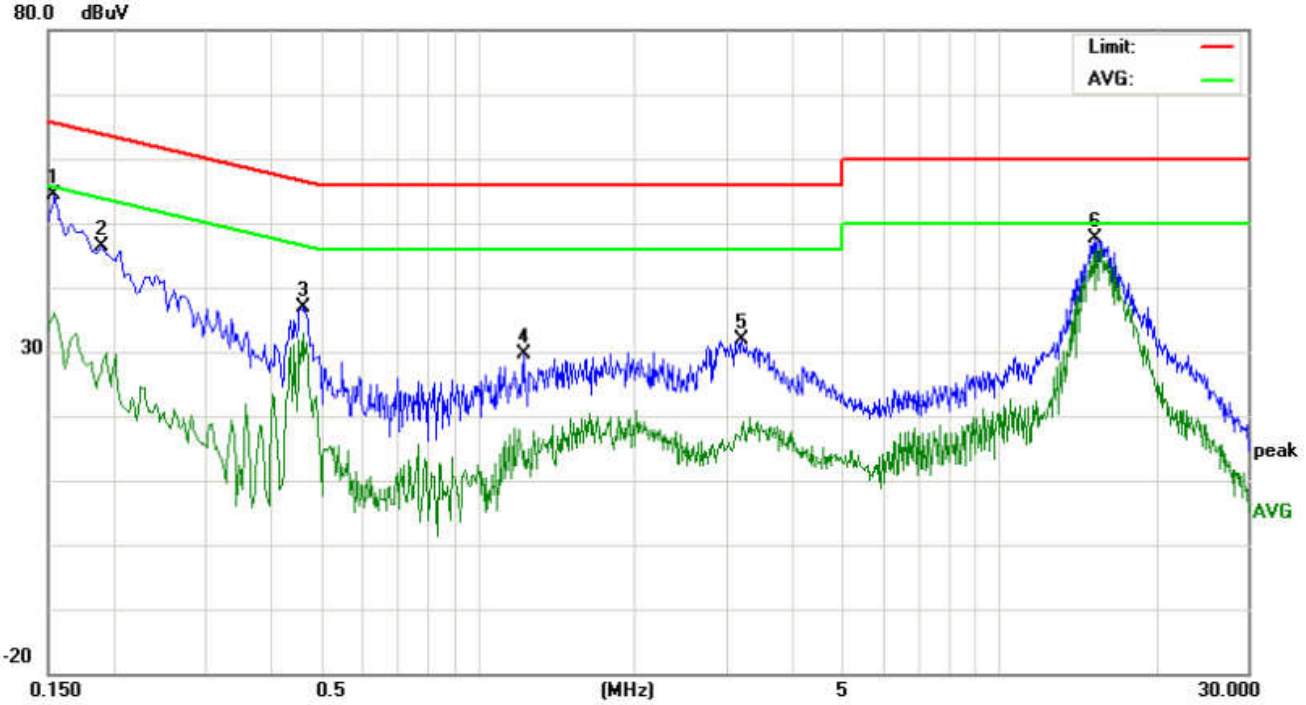
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live line:



No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)			
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.1500	44.84	40.12	20.90	9.91	54.75	50.03	30.81	65.99	55.99	-15.96	-25.18	P	
2	0.4620	28.60	25.40	25.31	9.89	38.49	35.29	35.20	56.66	46.66	-21.37	-11.46	P	
3	1.0700	20.08	17.46	7.20	9.80	29.88	27.26	17.00	56.00	46.00	-28.74	-29.00	P	
4	1.5620	21.89	17.69	5.16	9.76	31.65	27.45	14.92	56.00	46.00	-28.55	-31.08	P	
5	3.1180	22.34	18.78	8.57	9.72	32.06	28.50	18.29	56.00	46.00	-27.50	-27.71	P	
6	15.5660	37.45	34.20	35.45	9.97	47.42	44.17	45.42	60.00	50.00	-15.83	-4.58	P	

Neutral line:



No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)			
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.1539	44.38	40.58	26.33	9.91	54.29	50.49	36.24	65.78	55.78	-15.29	-19.54	P	
2	0.1900	36.49	33.52	17.26	9.91	46.40	43.43	27.17	64.03	54.03	-20.60	-26.86	P	
3	0.4660	27.06	24.01	18.86	9.89	36.95	33.90	28.75	56.58	46.58	-22.68	-17.83	P	
4	1.2260	19.82	16.47	2.56	9.79	29.61	26.26	12.35	56.00	46.00	-29.74	-33.65	P	
5	3.2180	22.08	18.50	7.81	9.72	31.80	28.22	17.53	56.00	46.00	-27.78	-28.47	P	
6	15.3459	37.69	33.96	35.89	9.98	47.67	43.94	45.87	60.00	50.00	-16.06	-4.13	P	

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

Appendix H): Restricted bands around fundamental frequency (Radiated)

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

Test Procedure:

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel

Above 1GHz test procedure as below:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
h. . Test the EUT in the lowest channel , the Highest channel
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
j. Repeat above procedures until all frequencies measured was complete.

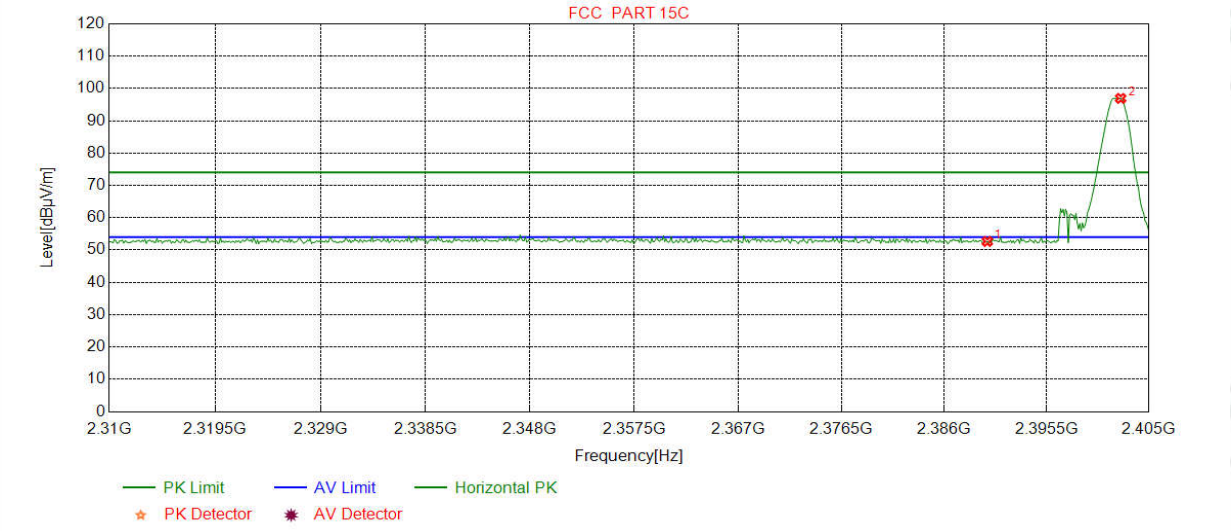
Limit:

Frequency	Limit (dBμV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
	74.0	Peak Value

Test plot as follows:

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	PK		

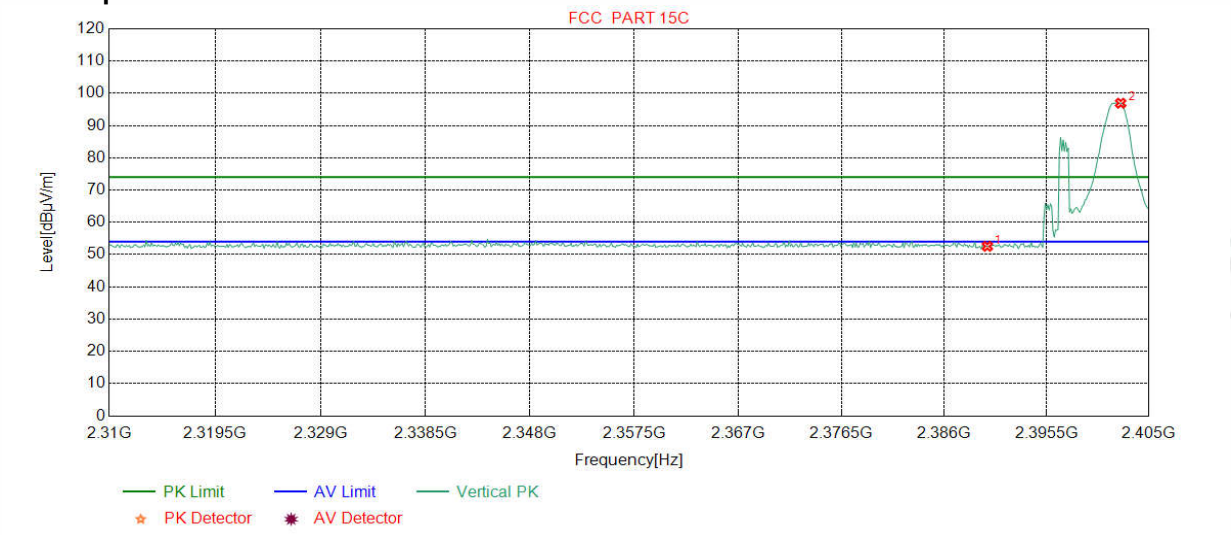
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	49.48	52.66	74.00	21.34	Pass	Horizontal
2	2402.3842	32.26	13.31	-42.43	93.79	96.93	74.00	-22.93	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	PK		

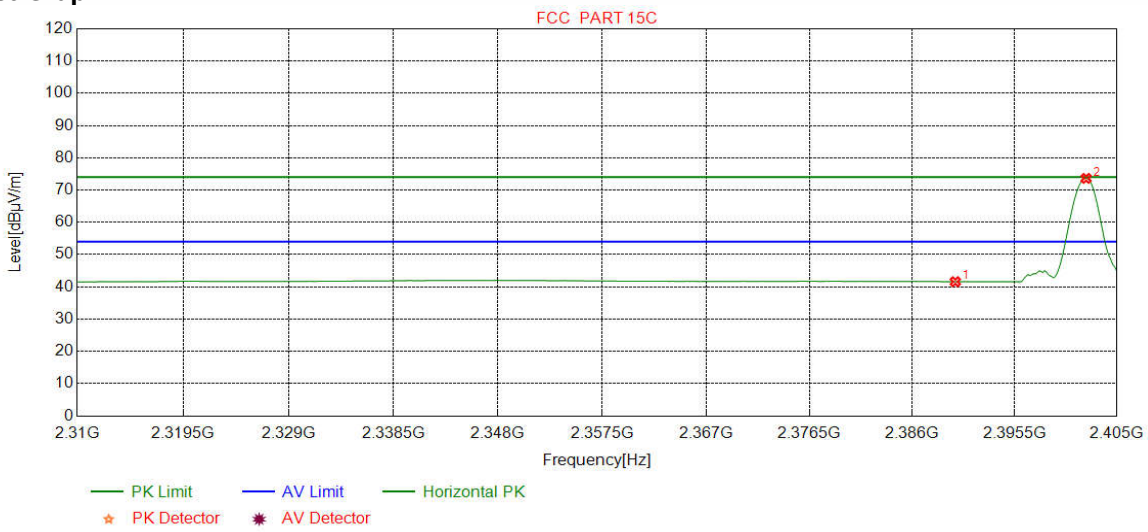
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	49.39	52.57	74.00	21.43	Pass	Vertical
2	2402.3842	32.26	13.31	-42.43	93.79	96.93	74.00	-22.93	Pass	Vertical

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	AV		

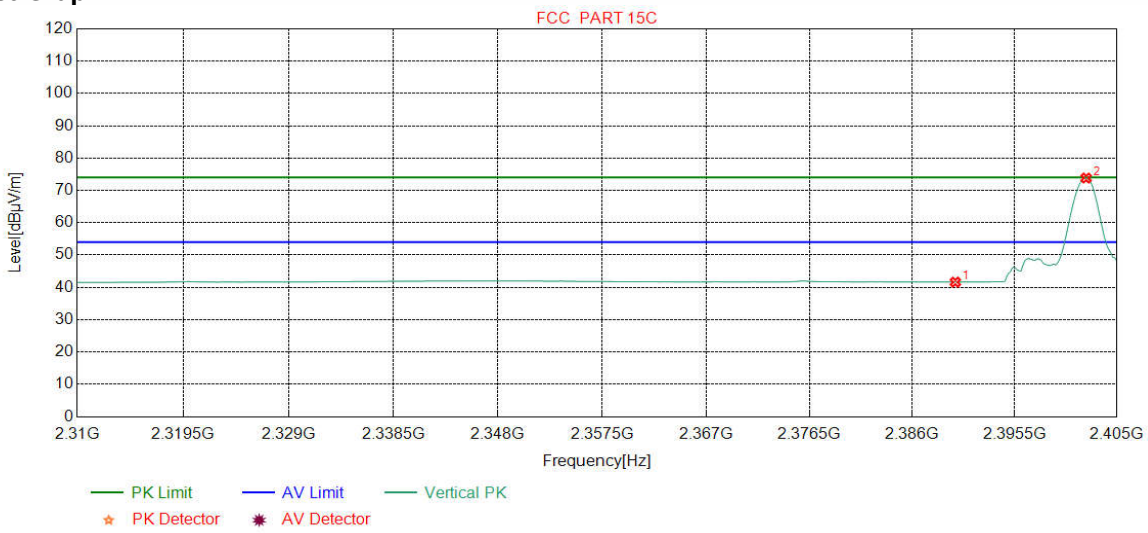
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	38.42	41.60	54.00	12.40	Pass	Horizontal
2	2402.1464	32.26	13.31	-42.43	70.48	73.62	54.00	-19.62	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	AV		

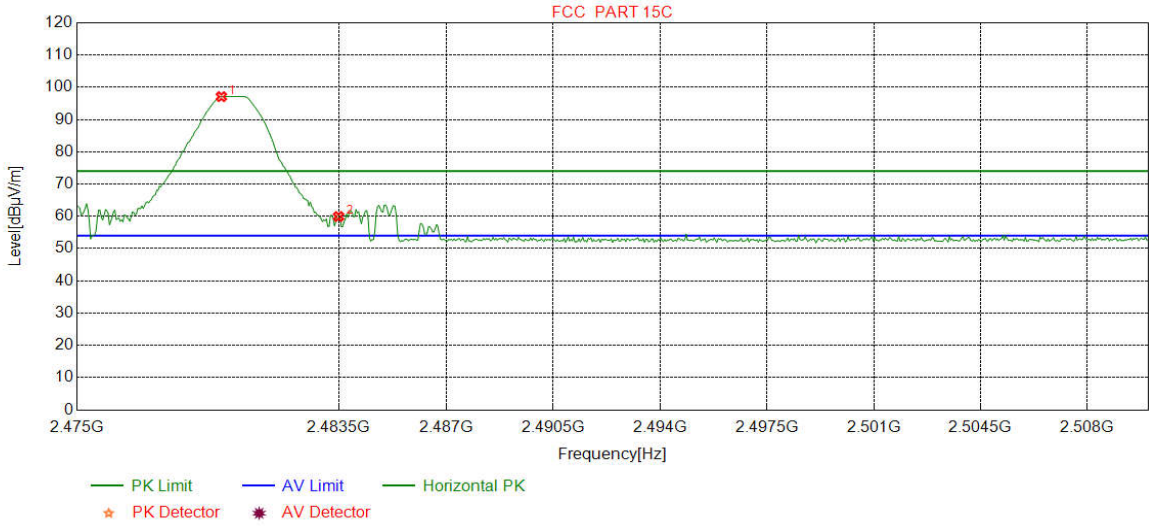
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	38.45	41.63	54.00	12.37	Pass	Vertical
2	2402.1464	32.26	13.31	-42.43	70.69	73.83	54.00	-19.83	Pass	Vertical

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	PK		

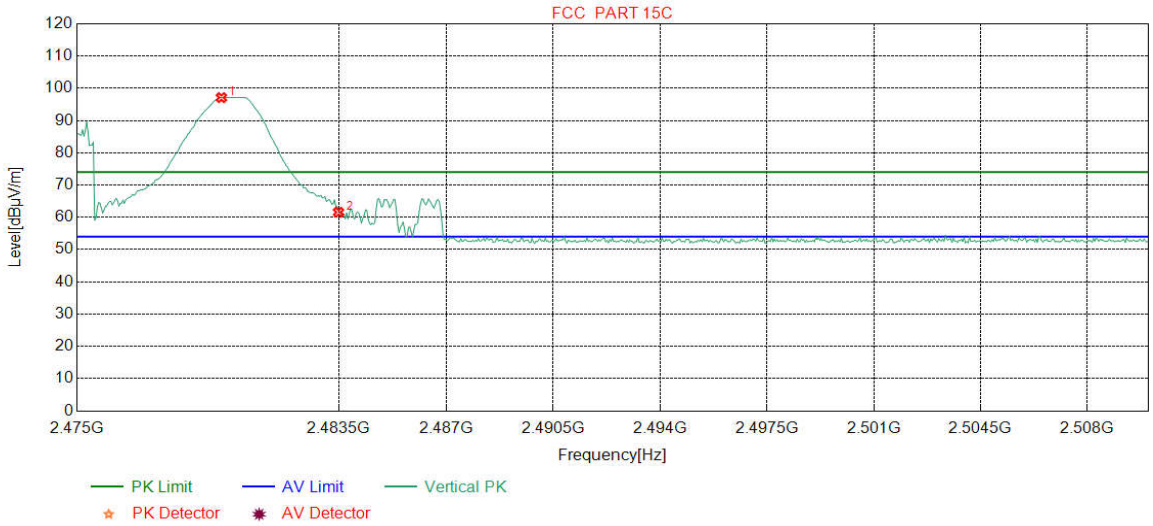
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2479.6871	32.37	13.39	-42.39	93.73	97.10	74.00	-23.10	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	56.57	59.93	74.00	14.07	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	PK		

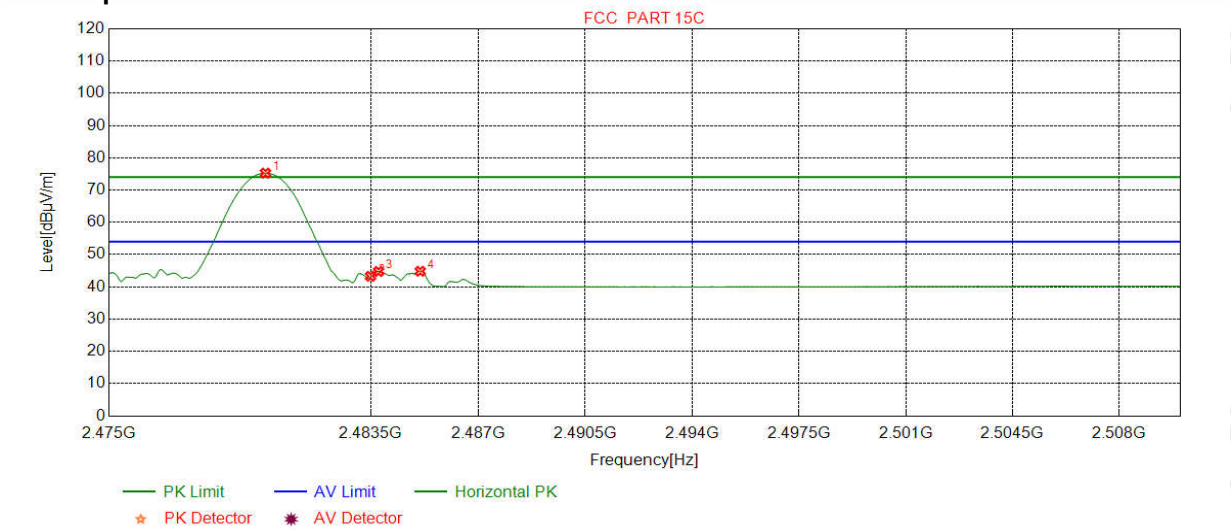
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2479.6871	32.37	13.39	-42.39	93.73	97.10	74.00	-23.10	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	58.22	61.58	74.00	12.42	Pass	Vertical

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	AV		

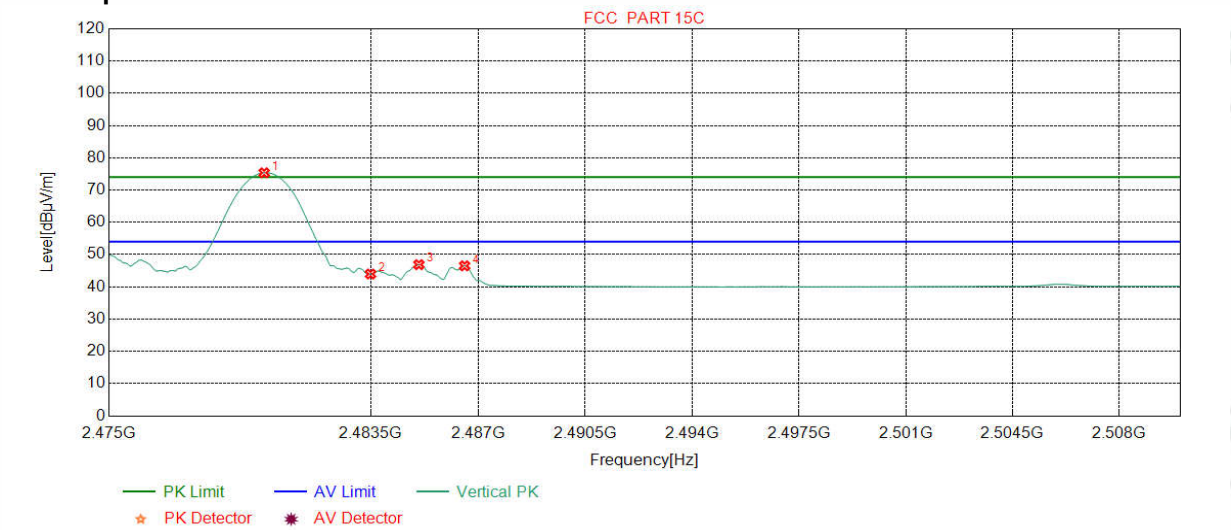
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2480.0814	32.37	13.39	-42.40	71.90	75.26	54.00	-21.26	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	39.93	43.29	54.00	10.71	Pass	Horizontal
3	2483.7610	32.38	13.37	-42.40	41.42	44.77	54.00	9.23	Pass	Horizontal
4	2485.1189	32.38	13.37	-42.40	41.48	44.83	54.00	9.17	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	AV		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2480.0375	32.37	13.39	-42.39	71.98	75.35	54.00	-21.35	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	40.62	43.98	54.00	10.02	Pass	Vertical
3	2485.0751	32.38	13.37	-42.40	43.54	46.89	54.00	7.11	Pass	Vertical
4	2486.5645	32.38	13.36	-42.39	43.17	46.52	54.00	7.48	Pass	Vertical

Note:
1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading -Correct Factor

Correct Factor = *Preamplifier Factor– Antenna Factor–Cable Factor*

Appendix I) Radiated Spurious Emissions

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

Test Procedure:

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower.
c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
j. Repeat above procedures until all frequencies measured was complete.

Limit:

Frequency	Field strength (microvolt/meter)	Limit (dBμV/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

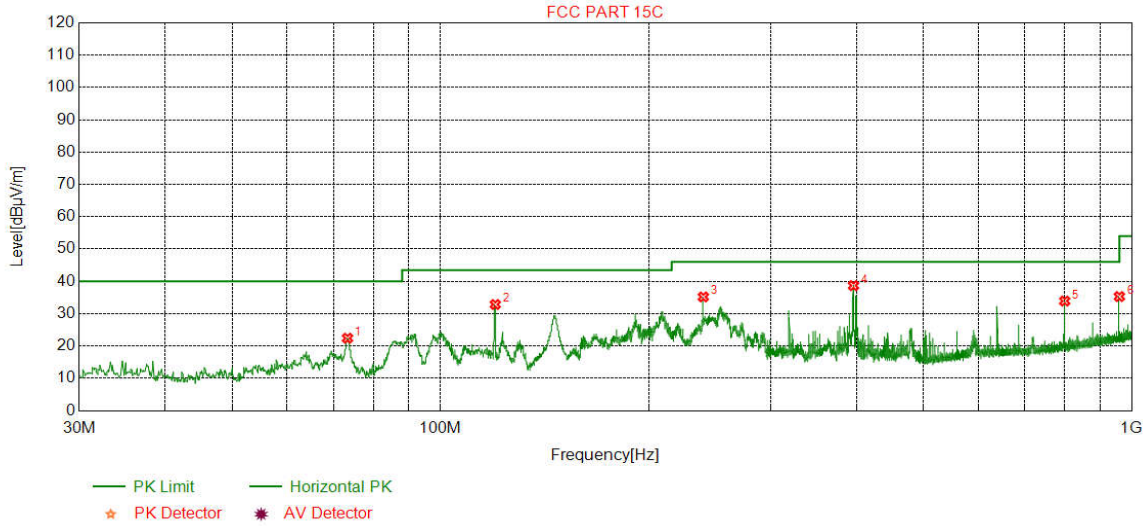
Temperature:	22℃	**Humidity:**	51%

Radiated Spurious Emissions test Data:

Radiated Emission below 1GHz

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	QP		

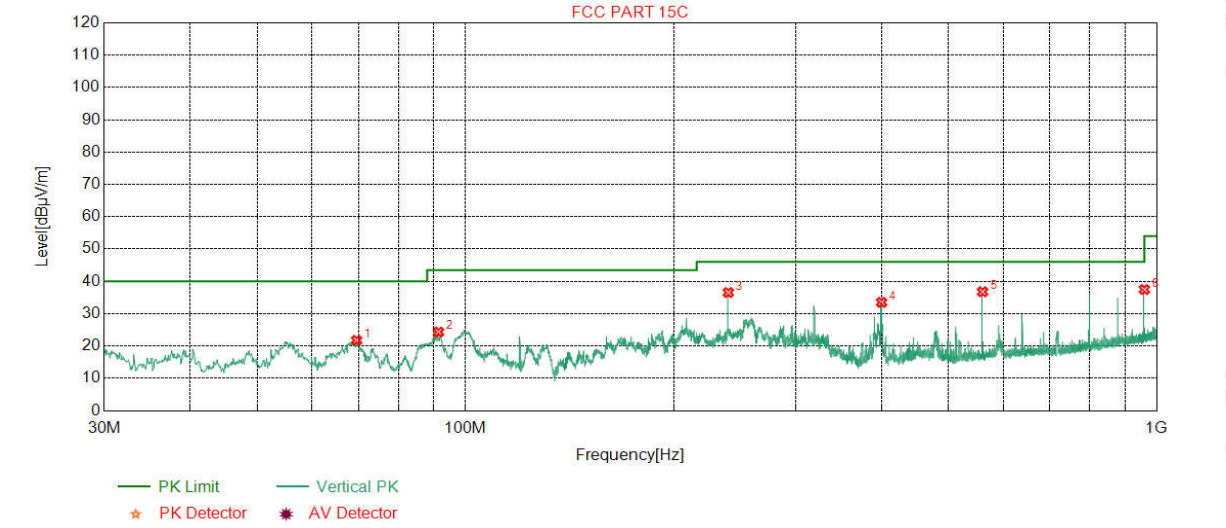
Test Graph



Suspected List										
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Magin [dB]	Result	Polarity
1	73.3633	8.36	0.99	-32.06	45.13	22.42	40.00	17.58	Pass	Horizontal
2	120.0250	9.20	1.30	-32.07	54.42	32.85	43.50	10.65	Pass	Horizontal
3	240.0260	11.94	1.84	-31.90	53.31	35.19	46.00	10.81	Pass	Horizontal
4	395.9206	15.31	2.37	-31.78	52.78	38.68	46.00	7.32	Pass	Horizontal
5	800.0630	20.90	3.39	-32.03	41.65	33.91	46.00	12.09	Pass	Horizontal
6	960.0320	22.46	3.71	-31.09	40.23	35.31	54.00	18.69	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	QP		

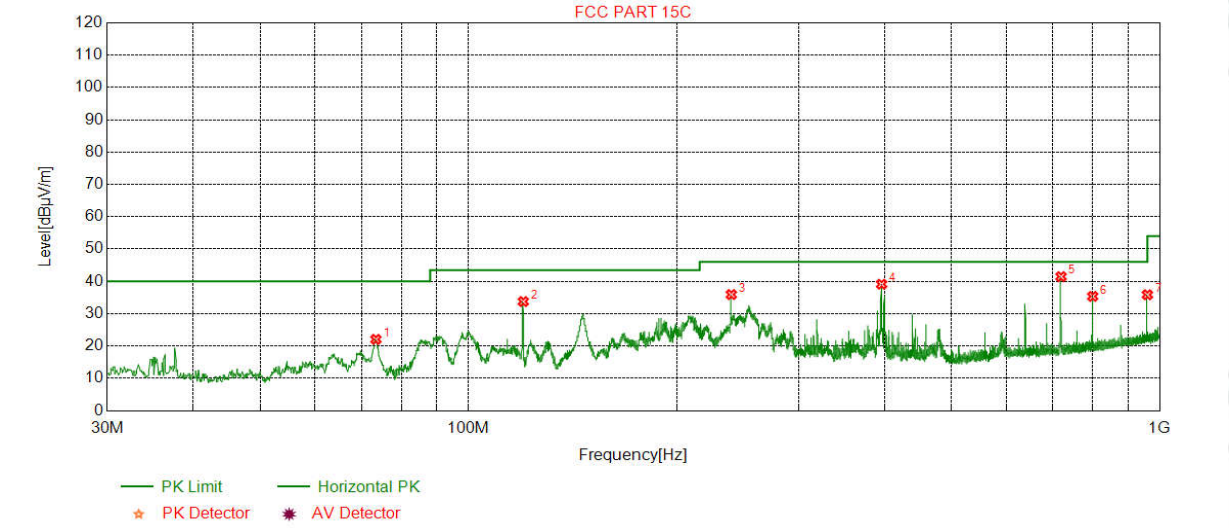
Test Graph



Suspected List										
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Magin [dB]	Result	Polarity
1	69.5800	9.11	0.95	-32.05	43.75	21.76	40.00	18.24	Pass	Vertical
2	91.4071	9.63	1.11	-32.10	45.69	24.33	43.50	19.17	Pass	Vertical
3	240.0260	11.94	1.84	-31.90	54.67	36.55	46.00	9.45	Pass	Vertical
4	399.9950	15.40	2.38	-31.76	47.48	33.50	46.00	12.50	Pass	Vertical
5	559.9640	18.20	2.82	-31.98	47.74	36.78	46.00	9.22	Pass	Vertical
6	960.0320	22.46	3.71	-31.09	42.39	37.47	54.00	16.53	Pass	Vertical

Mode:	BLE GFSK Transmitting	Channel:	2440
Remark:	QP		

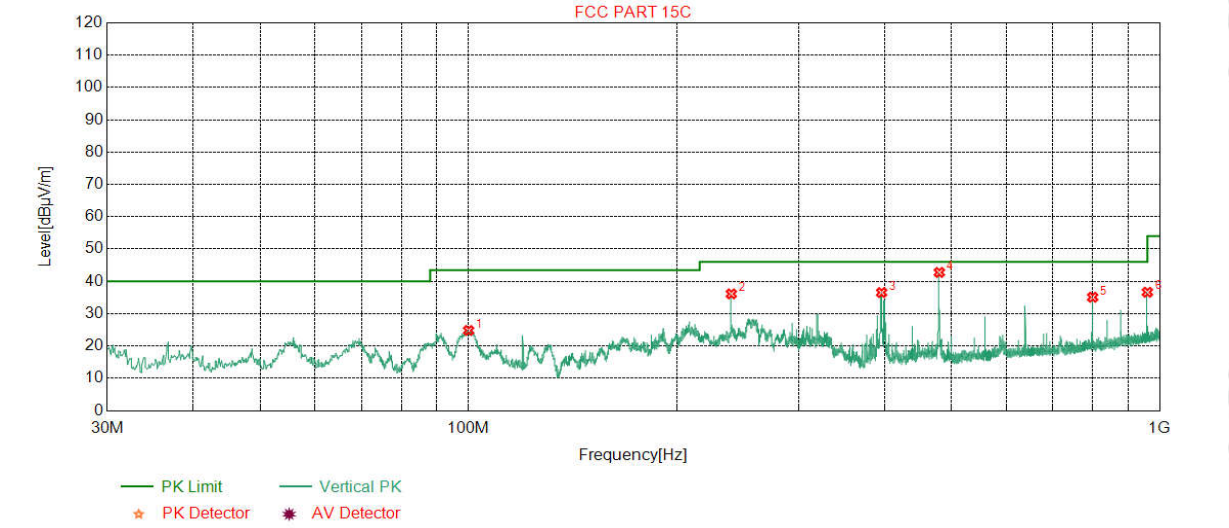
Test Graph



Suspected List										
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Magin [dB]	Result	Polarity
1	73.4603	8.34	0.99	-32.05	44.78	22.06	40.00	17.94	Pass	Horizontal
2	120.0250	9.20	1.30	-32.07	55.33	33.76	43.50	9.74	Pass	Horizontal
3	240.0260	11.94	1.84	-31.90	54.04	35.92	46.00	10.08	Pass	Horizontal
4	396.0176	15.31	2.37	-31.78	53.22	39.12	46.00	6.88	Pass	Horizontal
5	720.0300	20.02	3.22	-32.07	50.30	41.47	46.00	4.53	Pass	Horizontal
6	800.0630	20.90	3.39	-32.03	43.09	35.35	46.00	10.65	Pass	Horizontal
7	960.0320	22.46	3.71	-31.09	40.78	35.86	54.00	18.14	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2440
Remark:	QP		

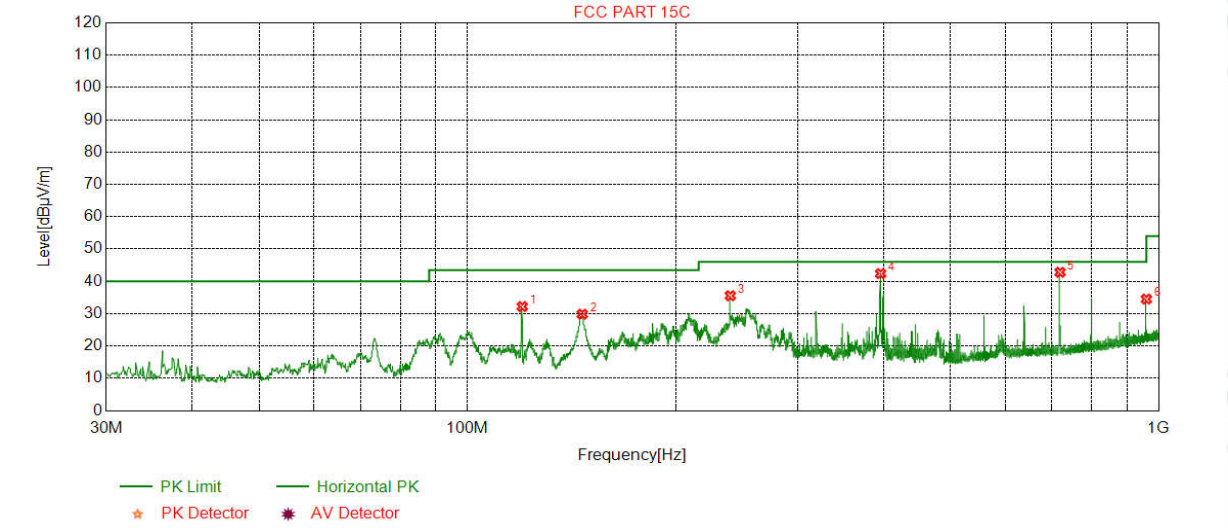
Test Graph



Suspected List										
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Magin [dB]	Result	Polarity
1	100.0410	11.00	1.17	-32.06	44.69	24.80	43.50	18.70	Pass	Vertical
2	240.0260	11.94	1.84	-31.90	54.26	36.14	46.00	9.86	Pass	Vertical
3	396.0176	15.31	2.37	-31.78	50.65	36.55	46.00	9.45	Pass	Vertical
4	480.0280	16.68	2.61	-31.90	55.38	42.77	46.00	3.23	Pass	Vertical
5	799.9660	20.90	3.39	-32.03	42.84	35.10	46.00	10.90	Pass	Vertical
6	960.0320	22.46	3.71	-31.09	41.56	36.64	54.00	17.36	Pass	Vertical

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	QP		

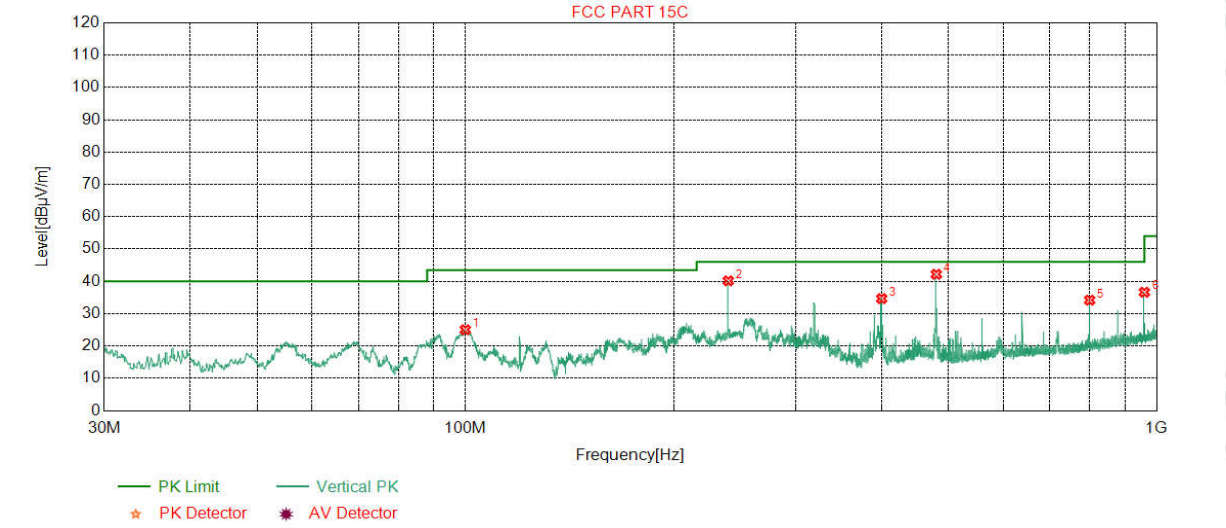
Test Graph



Suspected List										
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Magin [dB]	Result	Polarity
1	120.0250	9.20	1.30	-32.07	53.77	32.20	43.50	11.30	Pass	Horizontal
2	146.6057	7.43	1.43	-32.00	53.00	29.86	43.50	13.64	Pass	Horizontal
3	240.0260	11.94	1.84	-31.90	53.67	35.55	46.00	10.45	Pass	Horizontal
4	396.0176	15.31	2.37	-31.78	56.50	42.40	46.00	3.60	Pass	Horizontal
5	720.0300	20.02	3.22	-32.07	51.65	42.82	46.00	3.18	Pass	Horizontal
6	960.0320	22.46	3.71	-31.09	39.44	34.52	54.00	19.48	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	QP		

Test Graph

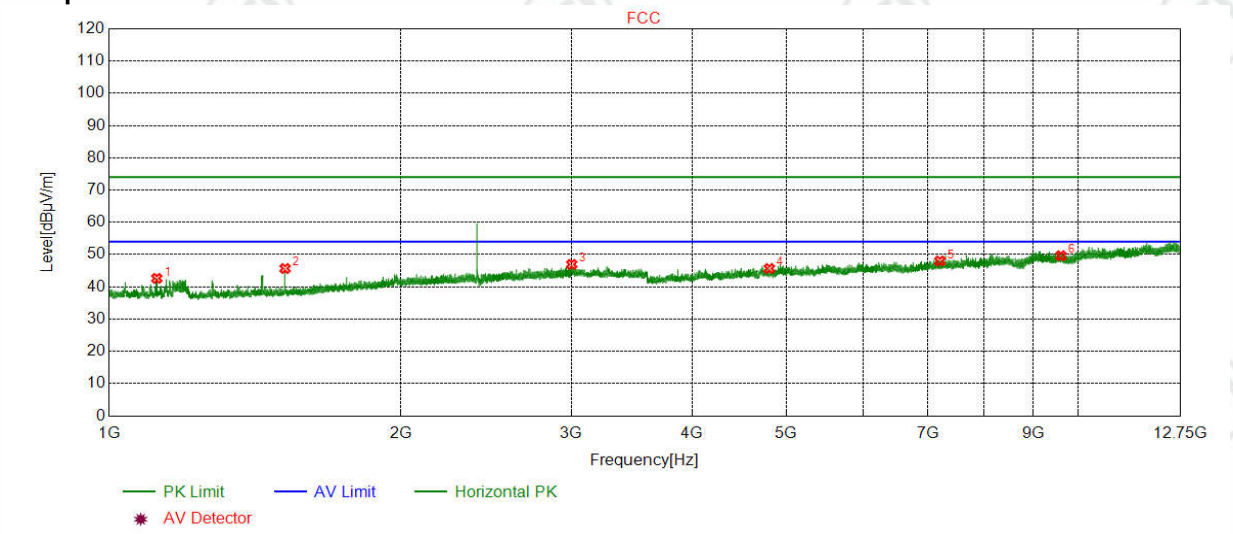


Suspected List										
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Magin [dB]	Result	Polarity
1	99.9440	10.99	1.17	-32.06	44.94	25.04	43.50	18.46	Pass	Vertical
2	240.0260	11.94	1.84	-31.90	58.29	40.17	46.00	5.83	Pass	Vertical
3	400.0920	15.40	2.38	-31.76	48.65	34.67	46.00	11.33	Pass	Vertical
4	480.0280	16.68	2.61	-31.90	54.80	42.19	46.00	3.81	Pass	Vertical
5	799.9660	20.90	3.39	-32.03	41.93	34.19	46.00	11.81	Pass	Vertical
6	960.0320	22.46	3.71	-31.09	41.57	36.65	54.00	17.35	Pass	Vertical

Transmitter Emission above 1GHz

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	PK		

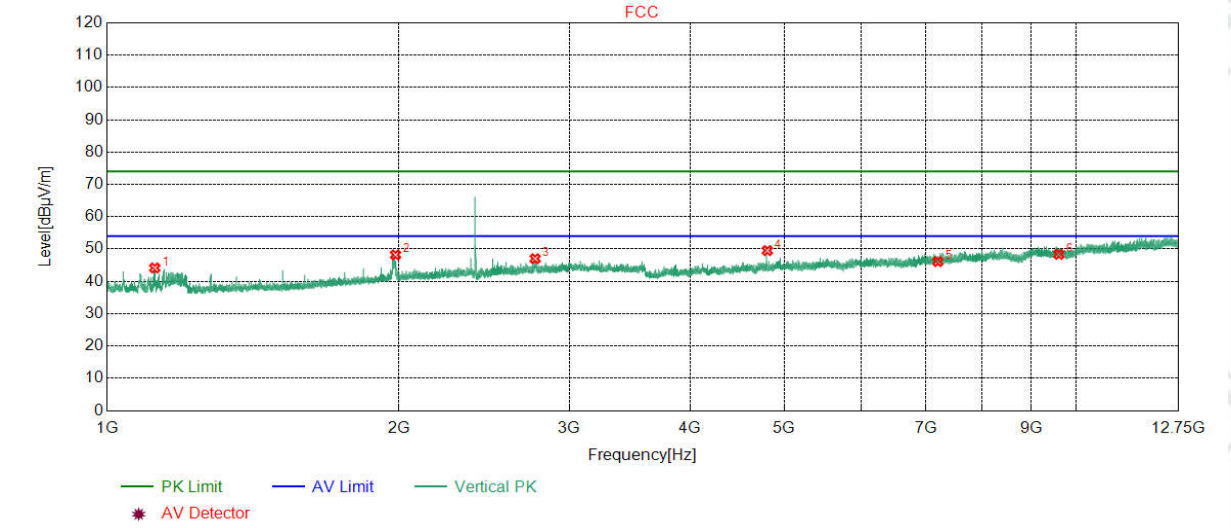
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	1120.0120	28.02	2.61	-42.76	54.76	42.63	74.00	31.37	Pass	Horizontal
2	1519.4519	28.53	3.01	-42.72	56.87	45.69	74.00	28.31	Pass	Horizontal
3	3003.2502	33.20	4.92	-42.11	50.94	46.95	74.00	27.05	Pass	Horizontal
4	4804.0000	34.50	4.55	-40.66	47.29	45.68	74.00	28.32	Pass	Horizontal
5	7206.0000	36.31	5.81	-41.02	46.93	48.03	74.00	25.97	Pass	Horizontal
6	9608.0000	37.64	6.63	-40.76	46.14	49.65	74.00	24.35	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	PK		

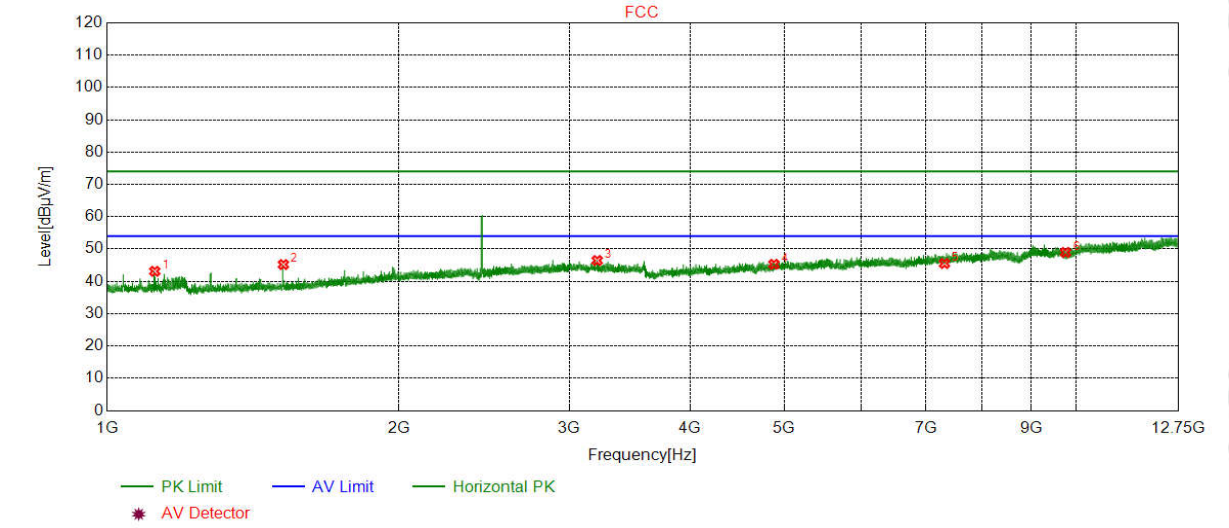
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	1120.0120	28.02	2.61	-42.76	56.28	44.15	74.00	29.85	Pass	Vertical
2	1985.0985	31.60	3.46	-42.62	55.76	48.20	74.00	25.80	Pass	Vertical
3	2766.3766	32.83	4.18	-42.25	52.26	47.02	74.00	26.98	Pass	Vertical
4	4804.0000	34.50	4.55	-40.66	51.14	49.53	74.00	24.47	Pass	Vertical
5	7206.0000	36.31	5.81	-41.02	45.02	46.12	74.00	27.88	Pass	Vertical
6	9608.0000	37.64	6.63	-40.76	44.85	48.36	74.00	25.64	Pass	Vertical

Mode:	BLE GFSK Transmitting	Channel:	2440
Remark:	PK		

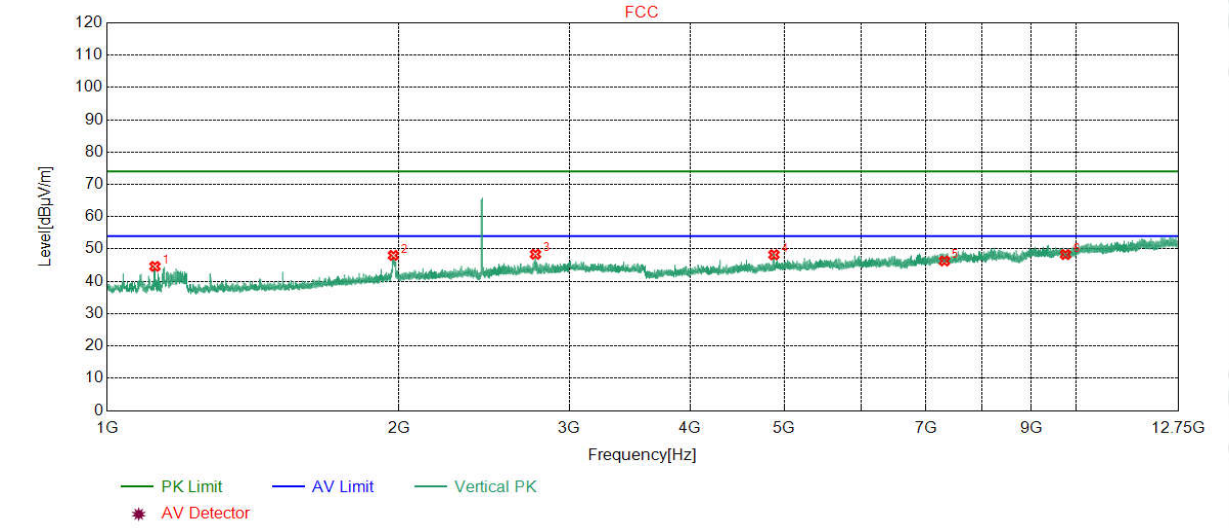
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	1120.0120	28.02	2.61	-42.76	55.25	43.12	74.00	30.88	Pass	Horizontal
2	1520.4520	28.53	3.01	-42.72	56.39	45.21	74.00	28.79	Pass	Horizontal
3	3206.0637	33.28	4.63	-42.00	50.55	46.46	74.00	27.54	Pass	Horizontal
4	4880.0000	34.50	4.80	-40.60	46.60	45.30	74.00	28.70	Pass	Horizontal
5	7320.0000	36.42	5.85	-40.92	44.18	45.53	74.00	28.47	Pass	Horizontal
6	9760.0000	37.70	6.73	-40.62	45.15	48.96	74.00	25.04	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2440
Remark:	PK		

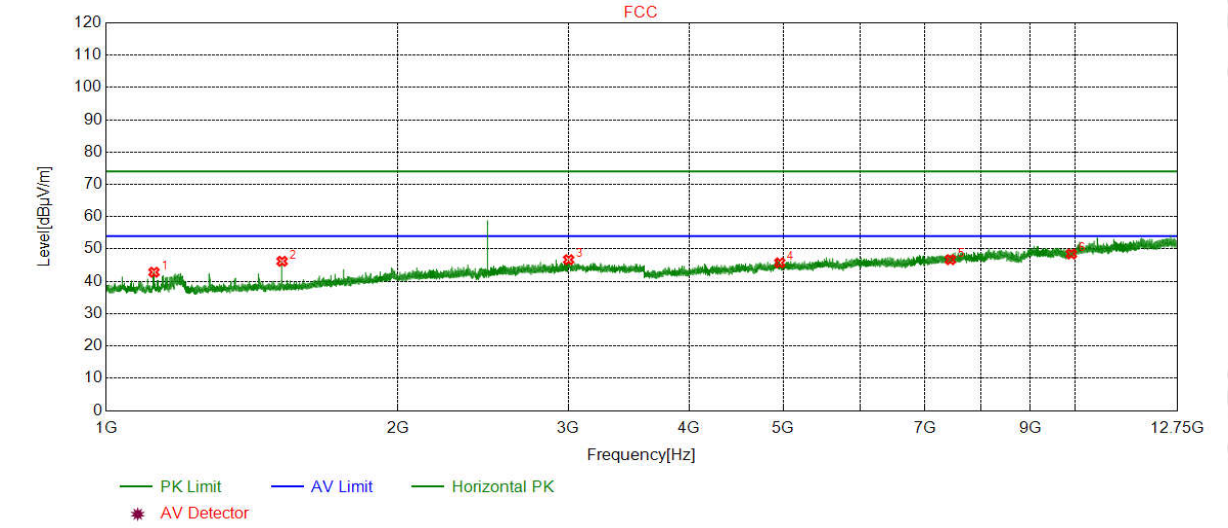
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	1120.4120	28.02	2.61	-42.76	56.76	44.63	74.00	29.37	Pass	Vertical
2	1974.8975	31.53	3.44	-42.61	55.67	48.03	74.00	25.97	Pass	Vertical
3	2768.5769	32.83	4.18	-42.24	53.63	48.40	74.00	25.60	Pass	Vertical
4	4880.0000	34.50	4.80	-40.60	49.53	48.23	74.00	25.77	Pass	Vertical
5	7320.0000	36.42	5.85	-40.92	44.95	46.30	74.00	27.70	Pass	Vertical
6	9760.0000	37.70	6.73	-40.62	44.49	48.30	74.00	25.70	Pass	Vertical

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	PK		

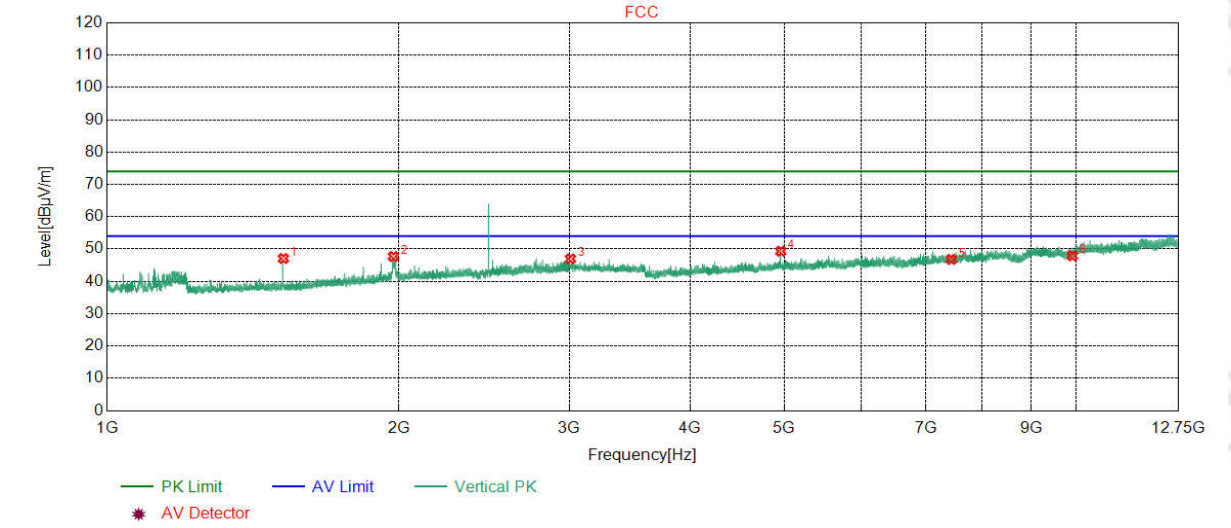
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	1120.6121	28.02	2.61	-42.76	54.96	42.83	74.00	31.17	Pass	Horizontal
2	1519.6520	28.53	3.01	-42.72	57.40	46.22	74.00	27.78	Pass	Horizontal
3	3002.6002	33.20	4.92	-42.11	50.69	46.70	74.00	27.30	Pass	Horizontal
4	4960.0000	34.50	4.82	-40.53	46.95	45.74	74.00	28.26	Pass	Horizontal
5	7440.0000	36.54	5.85	-40.82	45.13	46.70	74.00	27.30	Pass	Horizontal
6	9920.0000	37.77	6.79	-40.48	44.39	48.47	74.00	25.53	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	PK		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	1520.6521	28.54	3.01	-42.72	58.25	47.08	74.00	26.92	Pass	Vertical
2	1974.6975	31.53	3.44	-42.61	55.34	47.70	74.00	26.30	Pass	Vertical
3	3008.4506	33.20	4.91	-42.11	50.96	46.96	74.00	27.04	Pass	Vertical
4	4960.0000	34.50	4.82	-40.53	50.55	49.34	74.00	24.66	Pass	Vertical
5	7440.0000	36.54	5.85	-40.82	45.21	46.78	74.00	27.22	Pass	Vertical
6	9920.0000	37.77	6.79	-40.48	43.83	47.91	74.00	26.09	Pass	Vertical

Note:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

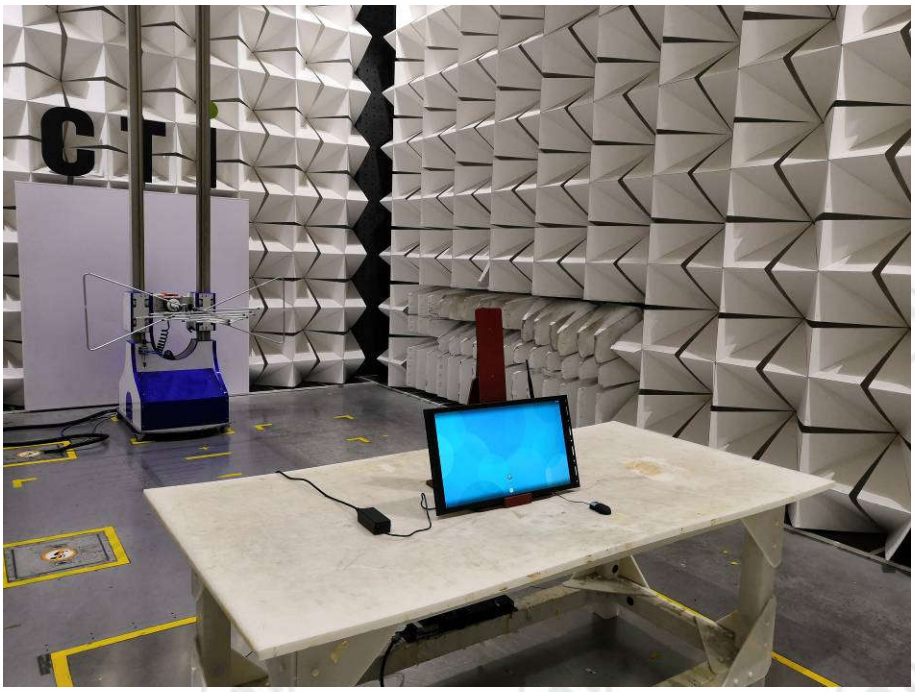
Final Test Level =Receiver Reading -Correct Factor

Correct Factor = *Preamplifier Factor– Antenna Factor–Cable Factor*

2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

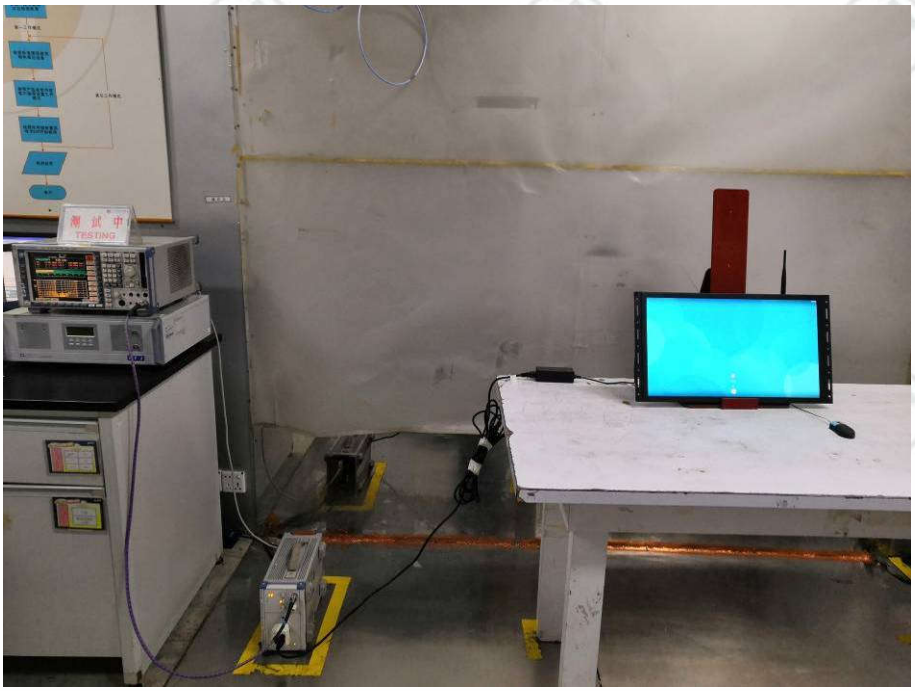
PHOTOGRAPHS OF TEST SETUP

Test Model No.: UIO0421B-C02



Radiated spurious emission Test Setup-1(Below 1GHz)

Radiated spurious emission Test Setup-2(Above 1GHz)



Conducted Emissions Test Setup

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00017401 for EUT external and internal photos.

*** End of Report ***