RF TEST REPORT

Product Name: MYHIXEL II

Model Name: MHX_PA_0006

FCC ID: 2A9Z3MHX-PA-0006

Issued For : New Wellness Concept SL

Avda. Republica Argentina 25, 8th floor. 41011 Sevilla, SPAIN

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China

Report Number:	LGT23A016RF01
Sample Received Date:	Jan. 06, 2023
Date of Test:	Jan. 06, 2023 – Feb. 03, 2023
Date of Issue:	Feb. 03, 2023

TEST REPORT CERTIFICATION

Applicant	New Wellness Concept SL
Address	Avda. Republica Argentina 25, 8th floor. 41011 Sevilla, SPAIN
Manufacturer	Milos Technology Co. Ltd.
Address	
Product Name	MYHIXEL II
Trademark	N/A
Model Name	MHX_PA_0006
Sample Status:	Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15.247, Subpart C ANSI C63.10-2013	PASS

Prepared by:

Zane Shan

Zane Shan
Engineer

Approved by:

Vita Li
Technical Director

Table of Contents

Table of Contents

Revision History

Rev.	Issue Date	Contents
00	Feb. 03, 2023	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02.

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

NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2013.

1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China
Accreditation Certificate	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

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

Parameter	Uncertainty
Occupied Channel Bandwidth	±3.2 %
RF Output Power, Conducted	±0.71dB
Power Spectral Density, Conducted	±1.57 dB
Unwanted Emission, Conducted	±0.63dB
Conducted emission	±2.80dB
All Emissions, Radiated (0.009-30MHz)	±2.16dB
All Emissions, Radiated (30MHz-1GHz)	±4.40dB
All Emissions, Radiated (1GHz-18GHz)	±5.49dB
Temperature	±0.5°C
Humidity	±2%
Duty Cycle	±2.3%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

<table>
<tr><td>Product Name</td><td>MYHIXEL II</td></tr>
<tr><td>Trademark</td><td>N/A</td></tr>
<tr><td>Model Name</td><td>MHX_PA_0006</td></tr>
<tr><td>Series Model</td><td>N/A</td></tr>
<tr><td>Model Difference</td><td>N/A</td></tr>
<tr><td>Product Description</td><td>The EUT is a MYHIXEL II
<table>
<tr><td>Operation Frequency:</td><td>2402~2480 MHz</td></tr>
<tr><td>Modulation Type:</td><td>GFSK</td></tr>
<tr><td>Radio Technology:</td><td>BLE</td></tr>
<tr><td>Bluetooth Configuration:</td><td>BLE (1M PHY and 2M PHY)</td></tr>
<tr><td>Number Of Channel:</td><td>40</td></tr>
<tr><td>Antenna Designation:</td><td>Please refer to the Note 3.</td></tr>
<tr><td>Antenna Gain (dBi)</td><td>0.5 dBi</td></tr>
</table></td></tr>
<tr><td>Channel List</td><td>Please refer to the Note 2.</td></tr>
<tr><td>Rating</td><td>Input: DC 3.7V 650mA</td></tr>
<tr><td>Hardware Version</td><td>N/A</td></tr>
<tr><td>Software Version</td><td>N/A</td></tr>
<tr><td>Connecting I/O Port(s)</td><td>Please refer to the Note 1.</td></tr>
</table>

Note:

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

2.

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

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	MHX_PA_0006	PCB antenna	N/A	0.5	BLE ANT

Note: The antenna information provide by manufacturer, applicable only to the tested sample identified in the report.

2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions
Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	1 MHz/GFSK
Mode 2	TX CH19(2440MHz)	1 MHz/GFSK
Mode 3	TX CH39(2480MHz)	1 MHz/GFSK

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	2M PHY /GFSK
Mode 2	TX CH19(2440MHz)	2M PHY /GFSK
Mode 3	TX CH39(2480MHz)	2M PHY /GFSK

Note:
(1) The measurements are performed at all Bit Rate of Transmitter; the worst data was reported.
(2) We have been tested for all avaiable U.S. voltage and frequency (For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report.

For AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 4: Keeping BT TX

2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test software Version	Test program: BLE	
FCC_assist_1.0.2.2	1M	Default
	2M	Default

2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
USB Cable	N/A	N/A	N/A	1m, unshielded, without ferrite core

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Adapter	TEN PAO INDUSTRIAL CO LTD	S010WU0500200U	N/A	Input: 100-240V ~ 50/60Hz 0.2A Output: 5V, 2A
Laptop	HUAWEI	HKF-16	N/A	N/A

Note:

(1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
(2) “YES” is means “with core”; “NO” is means “without core”.

2.5 EQUIPMENTS LIST

Conducted Emission					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Date**	**Cal. Until**
EMI Test Receiver	R&S	ESU8	100372	2022.04.12	2023.04.11
LISN	COM-POWER	LI-115	02032	2022.04.13	2023.04.12
LISN	SCHWARZBECK	NNLK 8121	00847	2022.08.19	2023.08.18
CE Cable	N.A	C01	N.A	2022.05.05	2023.05.04
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2022.08.19	2023.08.18
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Testing Software	EMC-I_V1.4.0.3_SKET				

RF Radiated Test equipment					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Date**	**Cal. Until**
EMI Test Receiver	R&S	ESU8	100372	2022.04.12	2023.04.11
Active loop Antenna	R&S	HFH2-Z2	POS871398181	2022.06.02	2024.06.01
Spectrum Analyzer	Kesight	N9010B	MY60242508	2022.04.29	2023.04.28
Bilog Antenna	SCHAFFNER	CBL6112B	2705	2022.06.05	2024.06.04
Bilog Antenna	SCHAFFNER	VULB 9168	01447	2022.12.12	2023.12.11
Horn Antenna	Schwarzbeck	3115	10SL0060	2022.06.02	2024.06.01
Pre-amplifier(0.1M -3GHz)	HP	8447D	2727A05655	2022.04.11	2023.04.10
Pre-amplifier(1-26 .5G)	Agilent	8449B	3008A4722	2022.04.13	2023.04.12
RE Cable (9K-1G)	N.A	R01	N.A	2022.05.05	2023.05.04
RE Cable (1-26G)	N.A	R02	N.A	2022.05.05	2023.05.04
Wireless Communications Test Set	R&S	CMW 500	137737	2022.04.29	2023.04.28
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Testing Software	EMC-I_V1.4.0.3_SKET				

RF Conducted Test equipment					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Date**	**Cal. Until**
Signal Analyzer	Keysight	N9010B	MY60242508	2022.04.29	2023.04.28
RF Automatic Test system	MW	MW200-RFCB	MW220322LG	2022.04.29	2023.04.28
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2022.06.02	2023.06.01
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2022.05.10	2023.05.09
Attenuator	eastsheep	90db	N.A	2022.04.29	2023.04.28
Router	TP-LINK(FCC ID:Q87-WRT3200ACM)	TL-WR885N	1125074010735	N.C.R	N.C.R
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Testing Software	MTS8310_V2.0.0.0_MW				

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

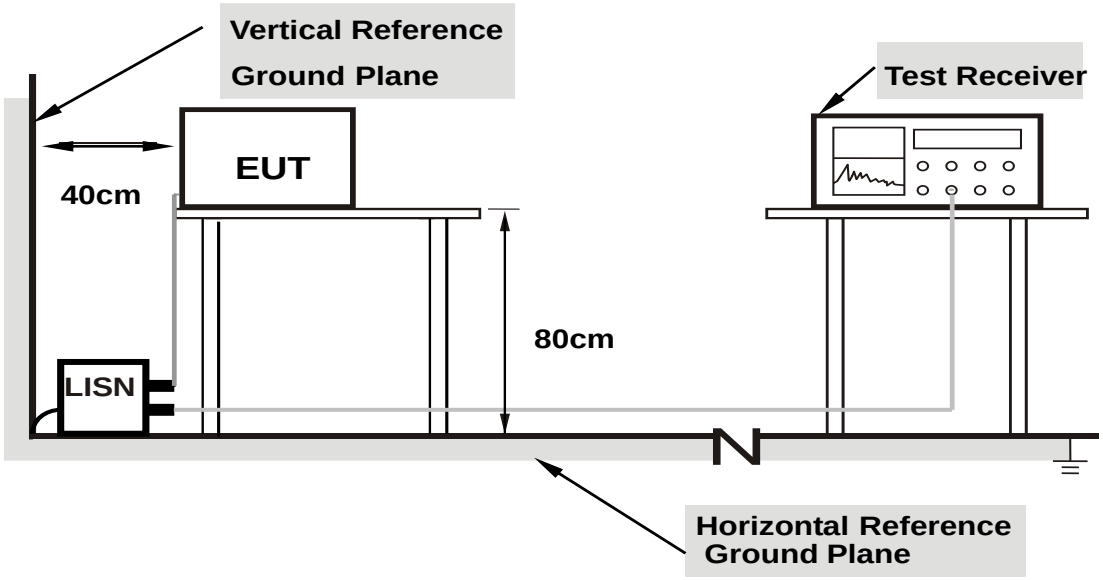
The following table is the setting of the receiver

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

3.2 TEST PROCEDURE

a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN is at least 80 cm from the nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP



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

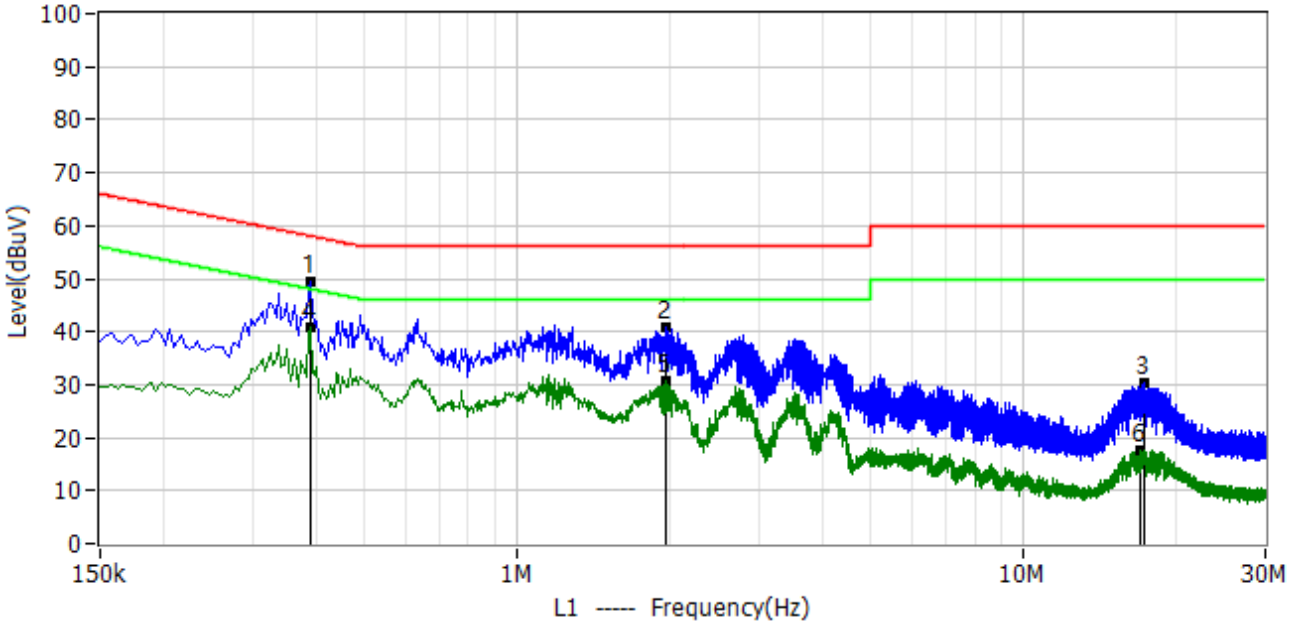
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.4 EUT OPERATING CONDITIONS

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

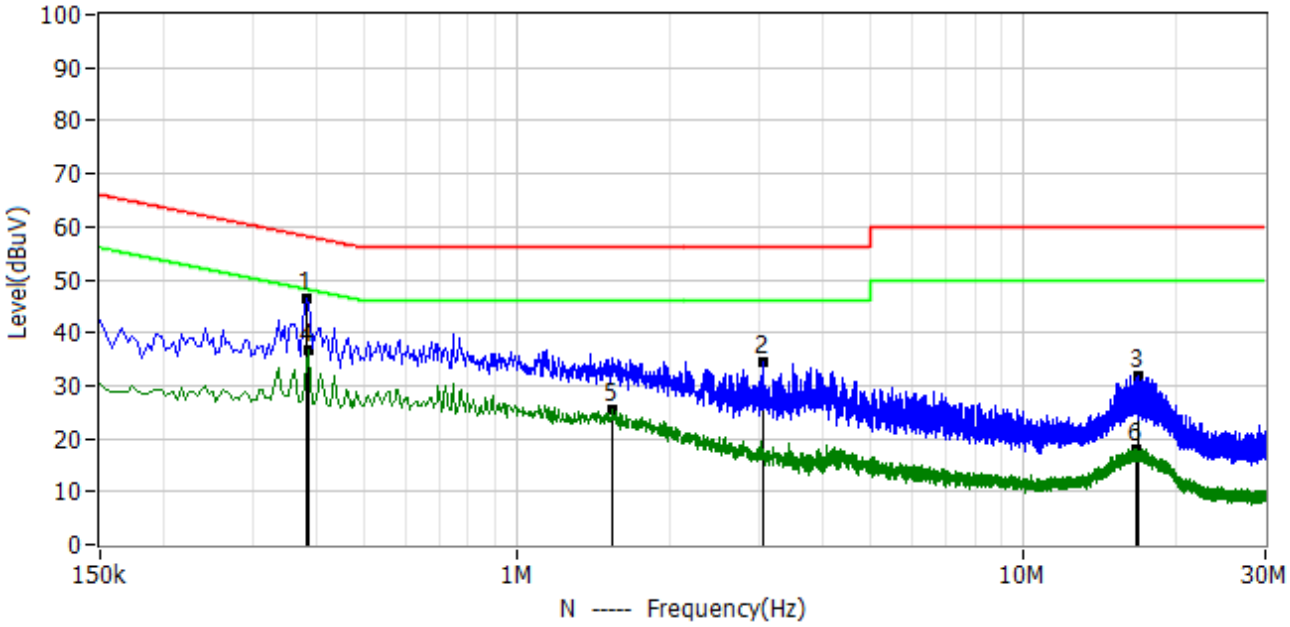
3.5 TEST RESULTS

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 24.2℃
M/N: SJCAM	Humidity: 52%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-02-01
Test Mode: TX	
Note:	



No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	390.000kHz	38.80	10.50	49.30	58.06	-8.76	PK	L1
2*	1.966MHz	30.06	10.73	40.79	56.00	-15.21	PK	L1
3*	17.250MHz	19.21	11.07	30.28	60.00	-29.72	PK	L1
4*	390.000kHz	30.23	10.50	40.73	48.06	-7.33	AV	L1
5*	1.966MHz	19.89	10.73	30.62	46.00	-15.38	AV	L1
6*	17.026MHz	6.58	11.07	17.65	50.00	-32.35	AV	L1

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 24.2℃
M/N: SJCAM	Humidity: 52%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-02-01
Test Mode: TX	
Note:	



No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	382.000kHz	35.96	10.50	46.46	58.24	-11.78	PK	N
2*	3.070MHz	23.67	10.77	34.44	56.00	-21.56	PK	N
3*	16.786MHz	20.69	11.08	31.77	60.00	-28.23	PK	N
4*	386.000kHz	26.32	10.50	36.82	48.15	-11.33	AV	N
5*	1.538MHz	14.86	10.64	25.50	46.00	-20.50	AV	N
6*	16.710MHz	7.00	11.08	18.08	50.00	-31.92	AV	N

4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

In case the emission fall within the Restricted band specified on Part15.205 (a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

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

LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

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

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz); 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz (Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 KHz / 300 KHz

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz (Peak/AV)
Stop Frequency	10th carrier hamonic (Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

For Restricted band

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2310 to 2410 MHz Upper Band Edge: 2475 to 2500 MHz
RB / VB	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.2 TEST PROCEDURE

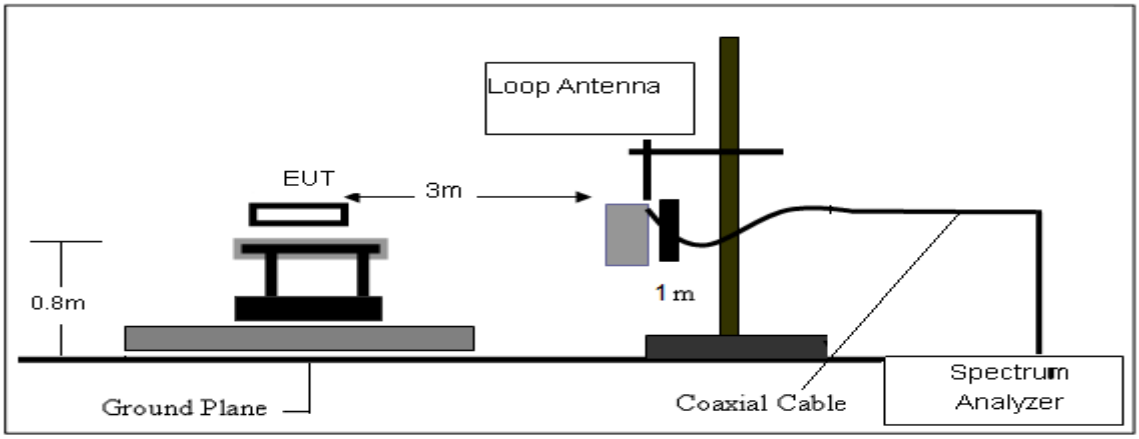
a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

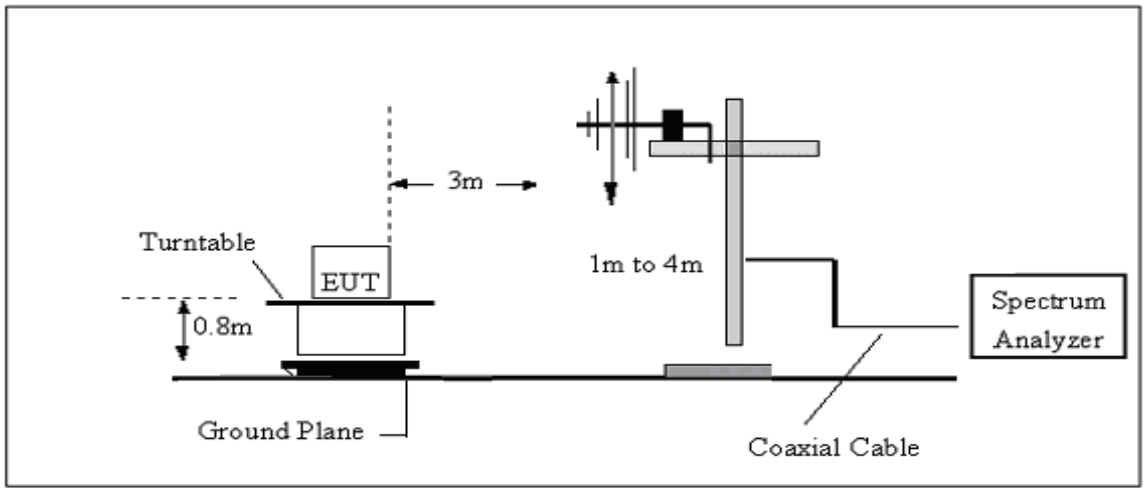
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

4.3 TEST SETUP

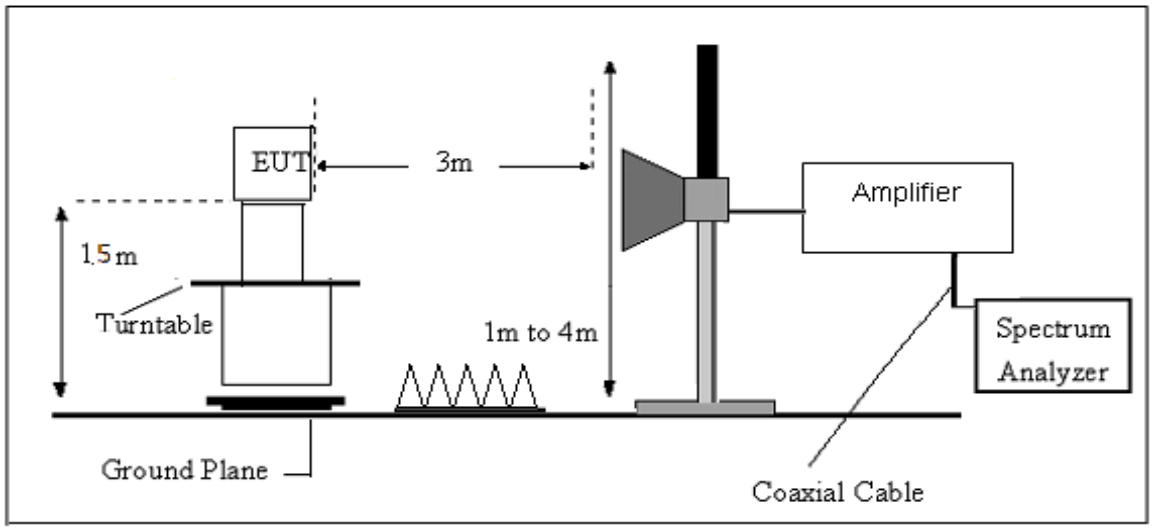
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.4 EUT OPERATING CONDITIONS

Please refer to section 3.4 of this report.

4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

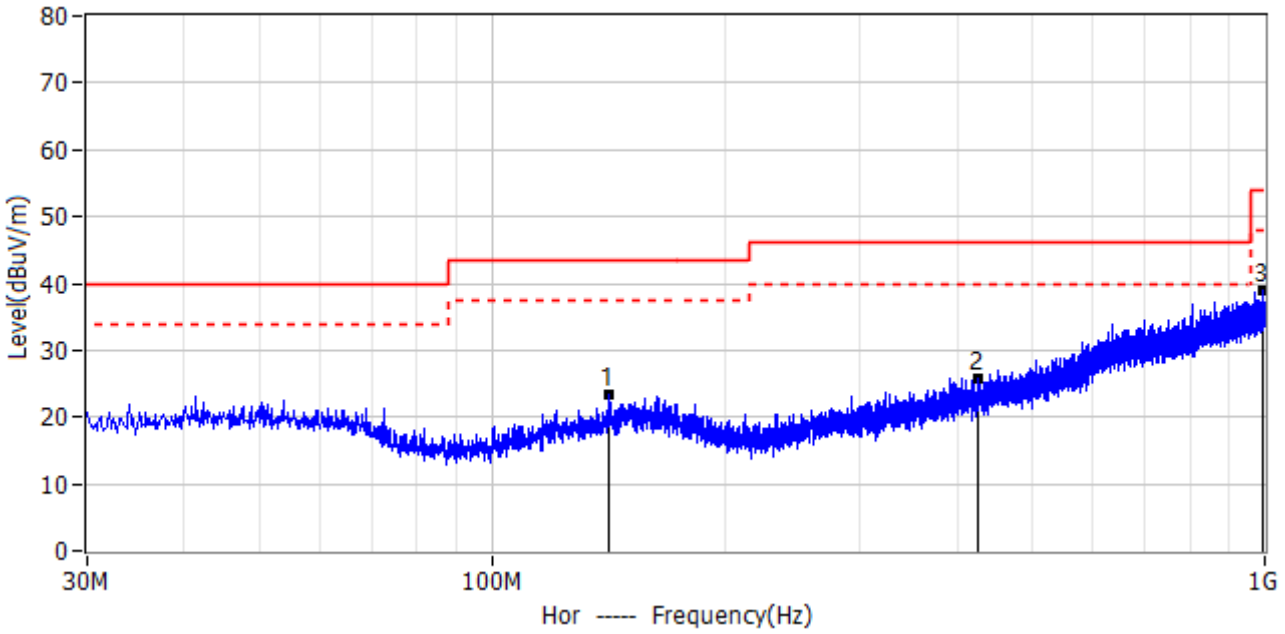
For example,

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG

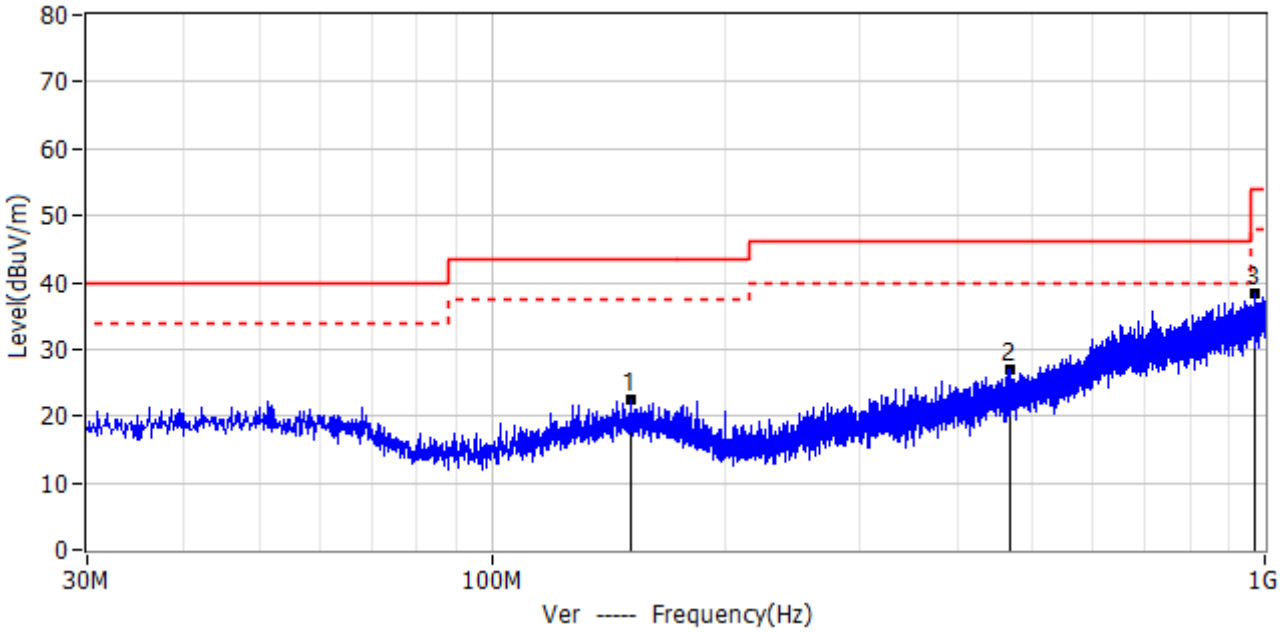
4.6 TEST RESULTS

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL	Temperature: 18.2℃
M/N: MHX_PA_0006	Humidity: 42RH%
Test Voltage: Battery	Test Data: 2023-01-16
Test Mode: TX	
Note:	



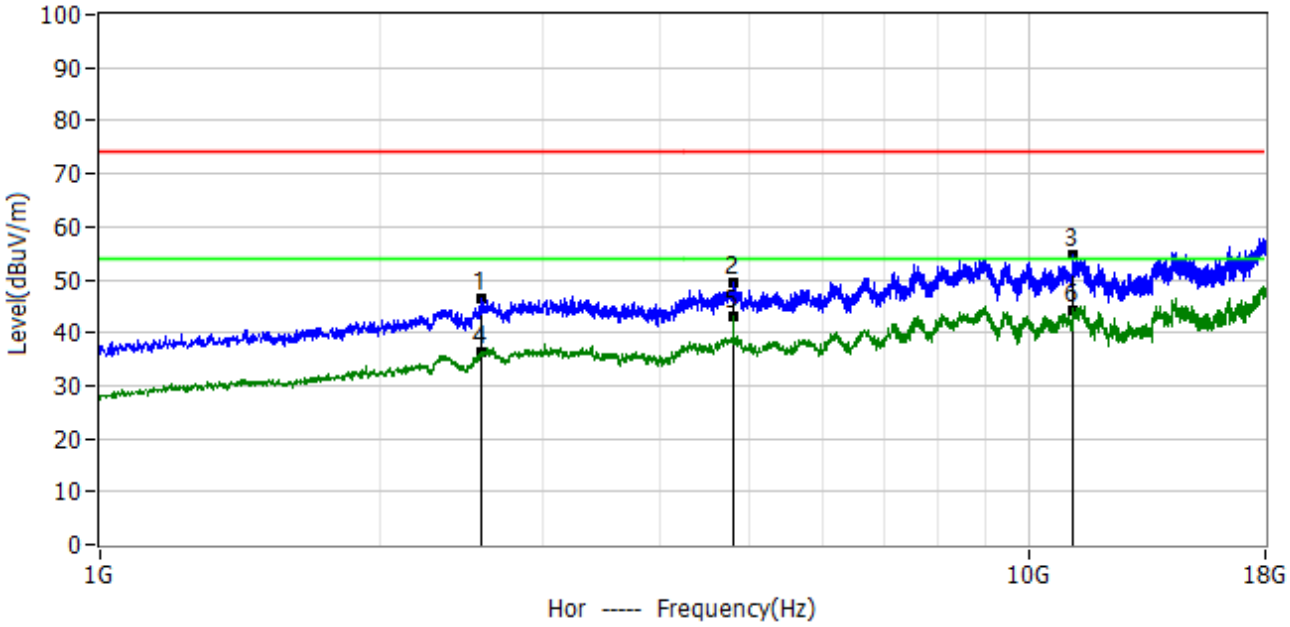
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	141.429MHz	4.28	19.18	23.46	43.50	-20.04	PK	Hor
2*	424.911MHz	2.67	23.21	25.88	46.00	-20.12	PK	Hor
3*	992.725MHz	4.33	34.54	38.87	54.00	-15.13	PK	Hor

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL	Temperature: 18.2℃
M/N: MHX_PA_0006	Humidity: 42RH%
Test Voltage: Battery	Test Data: 2023-01-16
Test Mode: TX	
Note:	



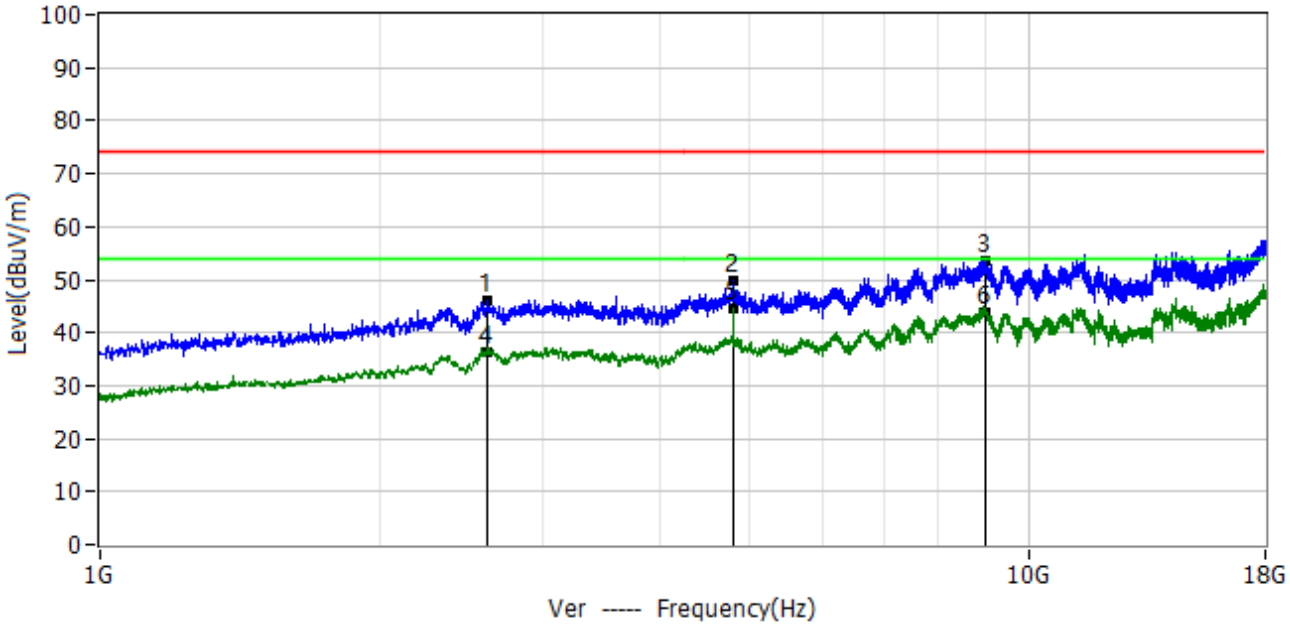
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	151.735MHz	2.59	19.97	22.56	43.50	-20.94	PK	Ver
2*	468.925MHz	2.76	24.31	27.07	46.00	-18.93	PK	Ver
3*	971.749MHz	3.92	34.38	38.30	54.00	-15.70	PK	Ver

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 21.2℃
M/N: MHX_PA_0006	Humidity: 61%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 1M 2402	
Note:	



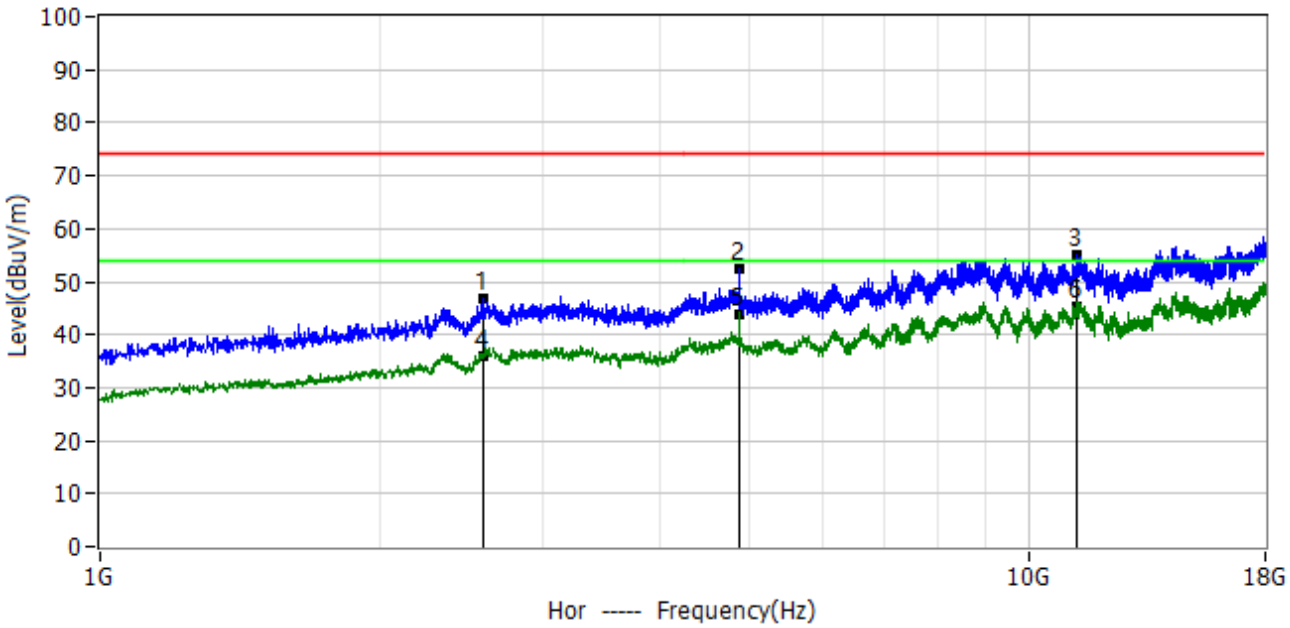
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.577GHz	56.95	-10.58	46.37	74.00	-27.63	PK	Hor
2*	4.802GHz	55.37	-5.99	49.38	74.00	-24.62	PK	Hor
3*	11.151GHz	52.90	1.72	54.62	74.00	-19.38	PK	Hor
4*	2.577GHz	46.78	-10.58	36.20	54.00	-17.80	AV	Hor
5*	4.804GHz	49.18	-5.99	43.19	54.00	-10.81	AV	Hor
6*	11.151GHz	42.48	1.72	44.20	54.00	-9.80	AV	Hor

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 21.2℃
M/N: MHX_PA_0006	Humidity: 61%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 1M 2402	
Note:	



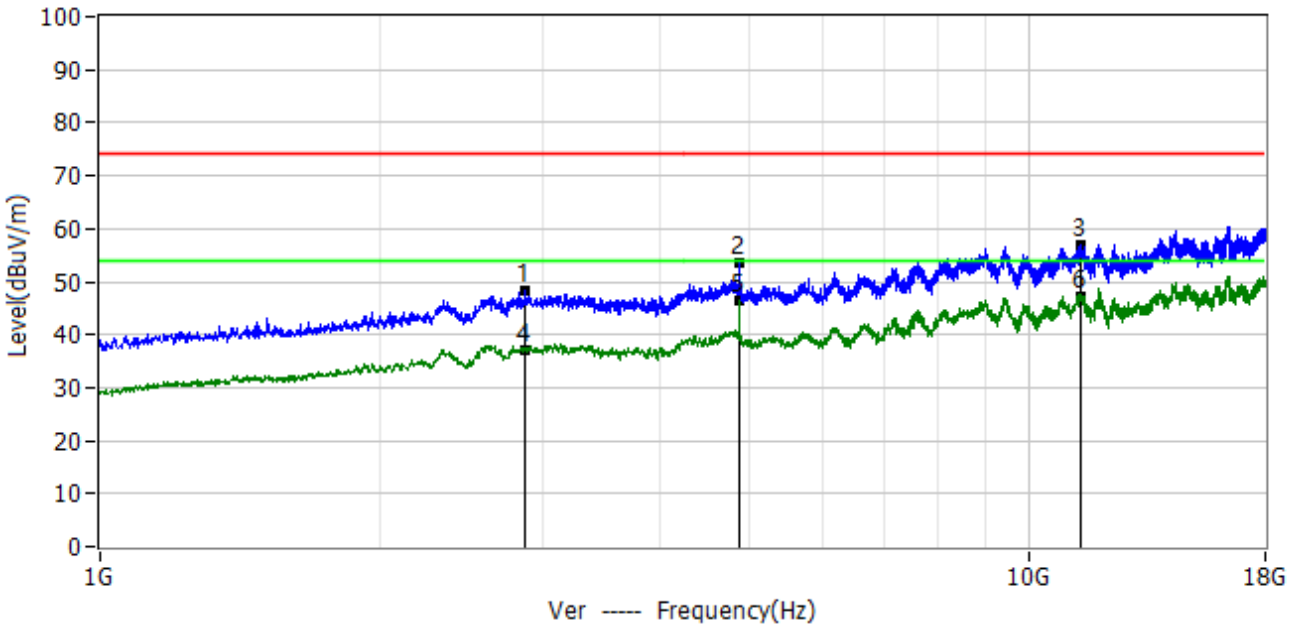
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.613GHz	56.36	-10.39	45.97	74.00	-28.03	PK	Ver
2*	4.802GHz	55.71	-5.99	49.72	74.00	-24.28	PK	Ver
3*	8.996GHz	54.79	-1.18	53.61	74.00	-20.39	PK	Ver
4*	2.613GHz	46.59	-10.39	36.20	54.00	-17.80	AV	Ver
5*	4.804GHz	50.70	-5.99	44.71	54.00	-9.29	AV	Ver
6*	8.996GHz	45.18	-1.18	44.00	54.00	-10.00	AV	Ver

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 21.2℃
M/N: MHX_PA_0006	Humidity: 61%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 1M 2440	
Note:	



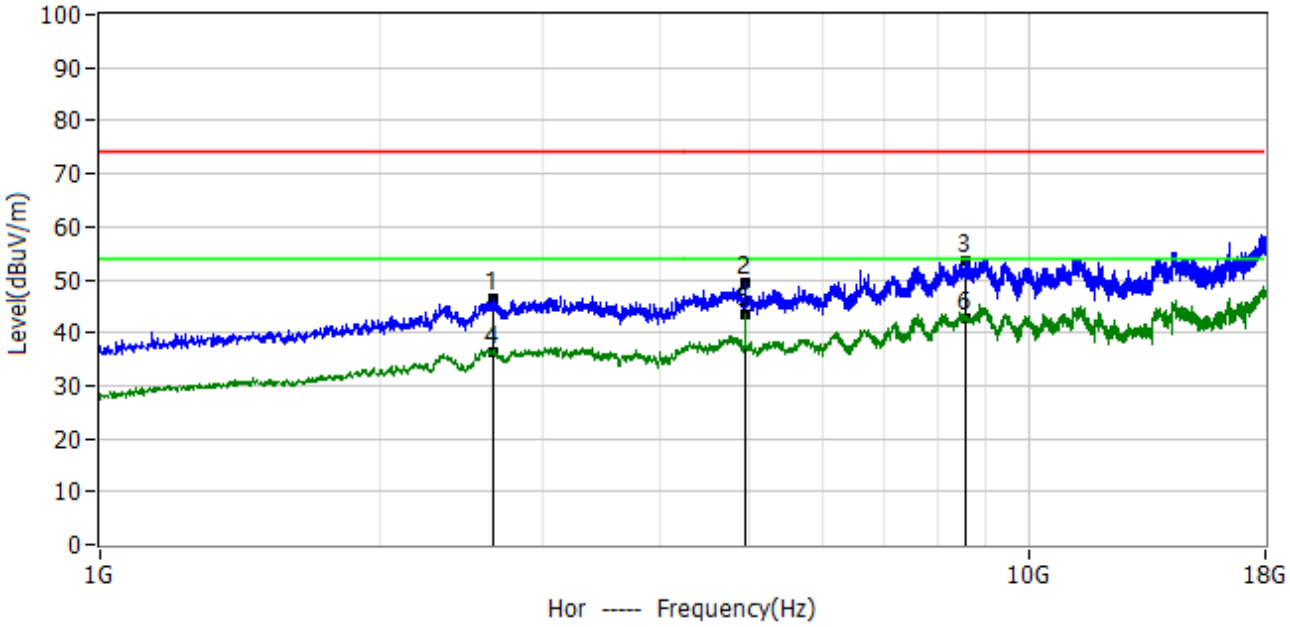
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.587GHz	57.22	-10.52	46.70	74.00	-27.30	PK	Hor
2*	4.878GHz	58.45	-6.05	52.40	74.00	-21.60	PK	Hor
3*	11.266GHz	53.08	1.79	54.87	74.00	-19.13	PK	Hor
4*	2.587GHz	46.52	-10.52	36.00	54.00	-18.00	AV	Hor
5*	4.878GHz	50.05	-6.05	44.00	54.00	-10.00	AV	Hor
6*	11.266GHz	43.51	1.79	45.30	54.00	-8.70	AV	Hor

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 21.2℃
M/N: MHX_PA_0006	Humidity: 61%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 1M 2440	
Note:	



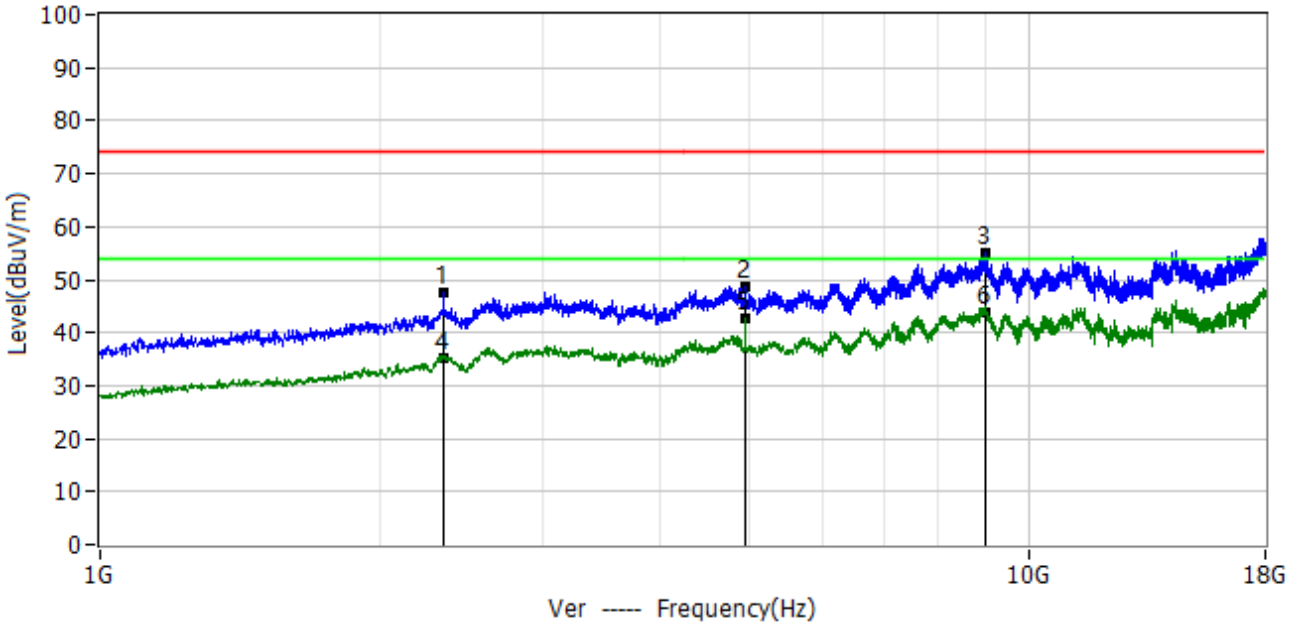
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.868GHz	57.24	-9.04	48.20	74.00	-25.80	PK	Ver
2*	4.876GHz	59.57	-6.04	53.53	74.00	-20.47	PK	Ver
3*	11.385GHz	55.00	1.86	56.86	74.00	-17.14	PK	Ver
4*	2.868GHz	46.24	-9.04	37.20	54.00	-16.80	AV	Ver
5*	4.878GHz	52.50	-6.05	46.45	54.00	-7.55	AV	Ver
6*	11.385GHz	45.34	1.86	47.20	54.00	-6.80	AV	Ver

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 21.2℃
M/N: MHX_PA_0006	Humidity: 61%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 1M 2480	
Note:	



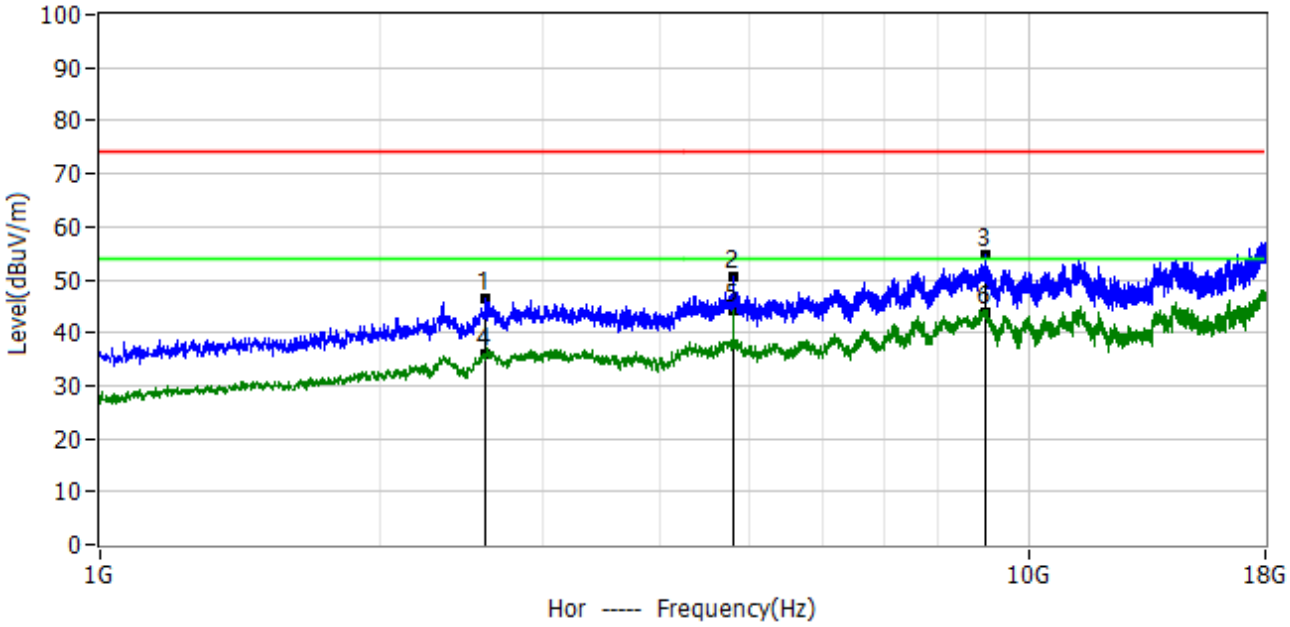
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.649GHz	56.61	-10.20	46.41	74.00	-27.59	PK	Hor
2*	4.957GHz	55.44	-6.11	49.33	74.00	-24.67	PK	Hor
3*	8.574GHz	56.12	-2.38	53.74	74.00	-20.26	PK	Hor
4*	2.649GHz	46.60	-10.20	36.40	54.00	-17.60	AV	Hor
5*	4.959GHz	49.39	-6.11	43.28	54.00	-10.72	AV	Hor
6*	8.574GHz	45.08	-2.38	42.70	54.00	-11.30	AV	Hor

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 21.2℃
M/N: MHX_PA_0006	Humidity: 61%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 1M 2480	
Note:	



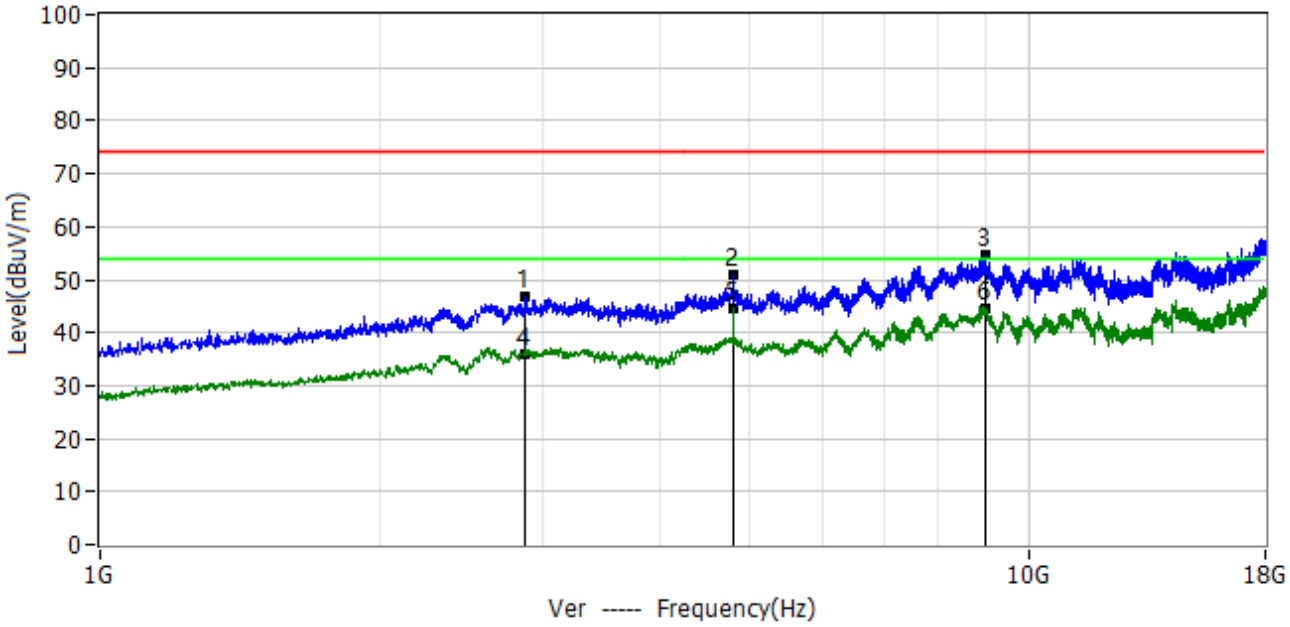
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.341GHz	60.14	-12.65	47.49	74.00	-26.51	PK	Ver
2*	4.957GHz	54.88	-6.11	48.77	74.00	-25.23	PK	Ver
3*	8.992GHz	56.07	-1.19	54.88	74.00	-19.12	PK	Ver
4*	2.341GHz	47.95	-12.65	35.30	54.00	-18.70	AV	Ver
5*	4.959GHz	48.96	-6.11	42.85	54.00	-11.15	AV	Ver
6*	8.992GHz	45.19	-1.19	44.00	54.00	-10.00	AV	Ver

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 21.2℃
M/N: MHX_PA_0006	Humidity: 61%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 2M 2402	
Note:	



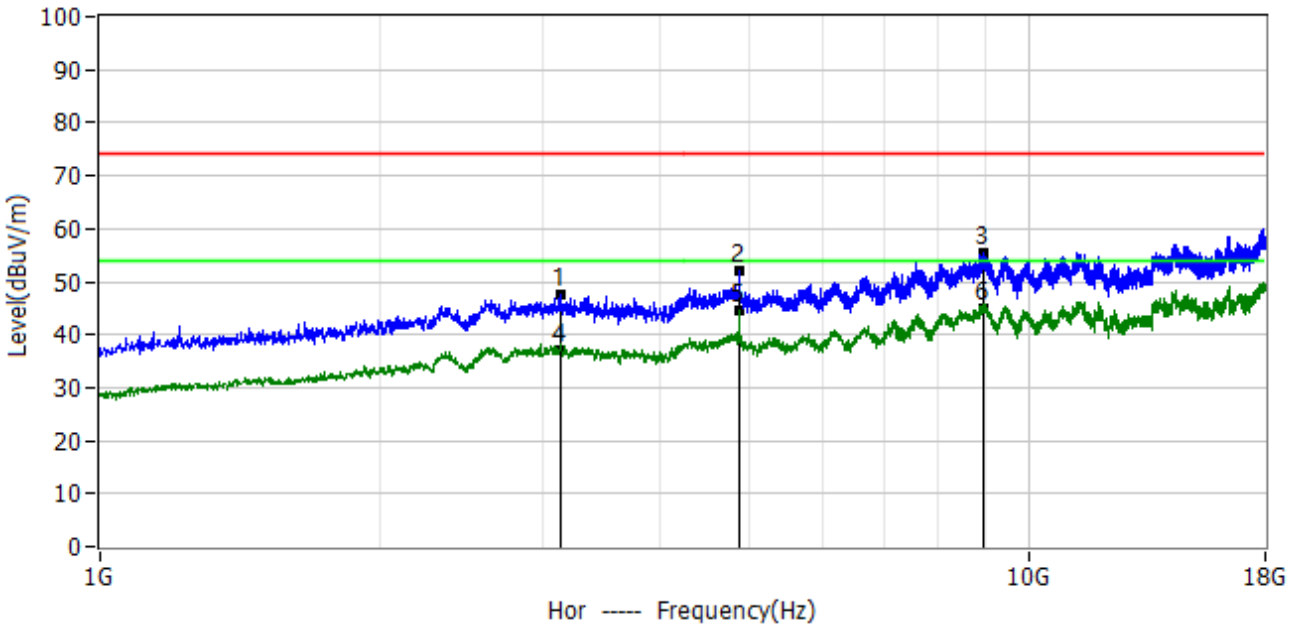
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.604GHz	57.05	-10.43	46.62	74.00	-27.38	PK	Hor
2*	4.802GHz	56.49	-5.99	50.50	74.00	-23.50	PK	Hor
3*	8.990GHz	55.72	-1.20	54.52	74.00	-19.48	PK	Hor
4*	2.604GHz	46.33	-10.43	35.90	54.00	-18.10	AV	Hor
5*	4.804GHz	50.13	-5.99	44.14	54.00	-9.86	AV	Hor
6*	8.990GHz	45.20	-1.20	44.00	54.00	-10.00	AV	Hor

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 21.2℃
M/N: MHX_PA_0006	Humidity: 61%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 2M 2402	
Note:	



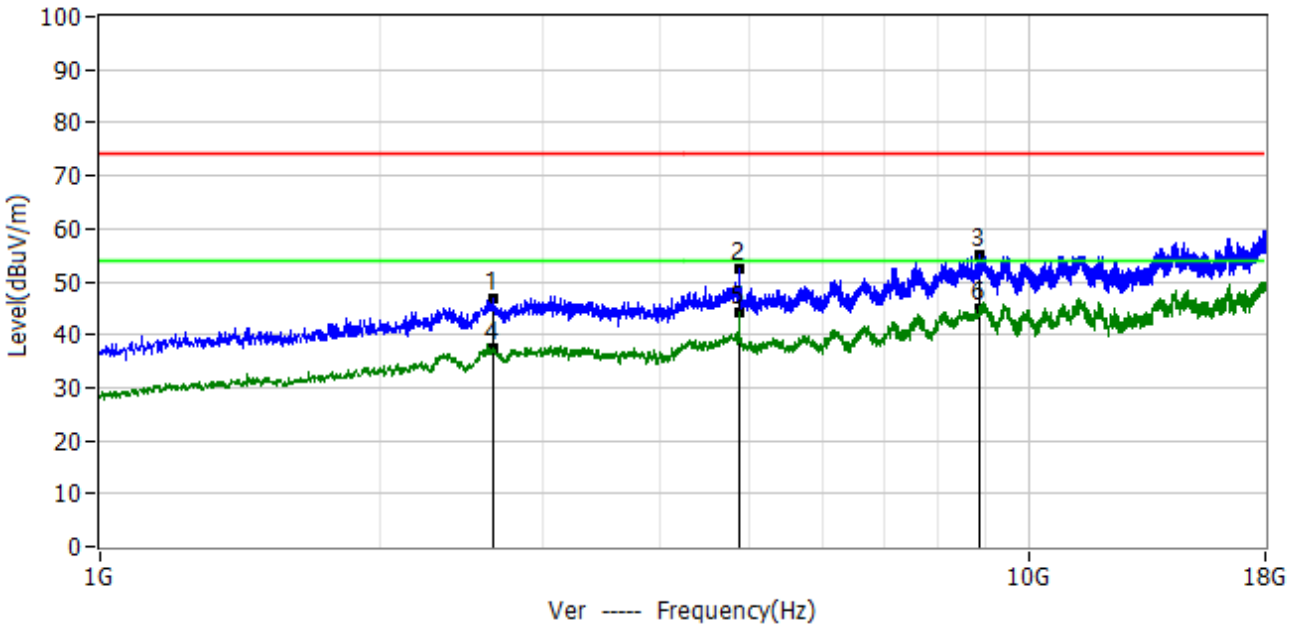
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.872GHz	55.72	-9.02	46.70	74.00	-27.30	PK	Ver
2*	4.802GHz	57.10	-5.99	51.11	74.00	-22.89	PK	Ver
3*	9.005GHz	55.71	-1.17	54.54	74.00	-19.46	PK	Ver
4*	2.872GHz	45.02	-9.02	36.00	54.00	-18.00	AV	Ver
5*	4.804GHz	50.57	-5.99	44.58	54.00	-9.42	AV	Ver
6*	9.005GHz	45.67	-1.17	44.50	54.00	-9.50	AV	Ver

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 21.2℃
M/N: MHX_PA_0006	Humidity: 61%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 2M 2440	
Note:	



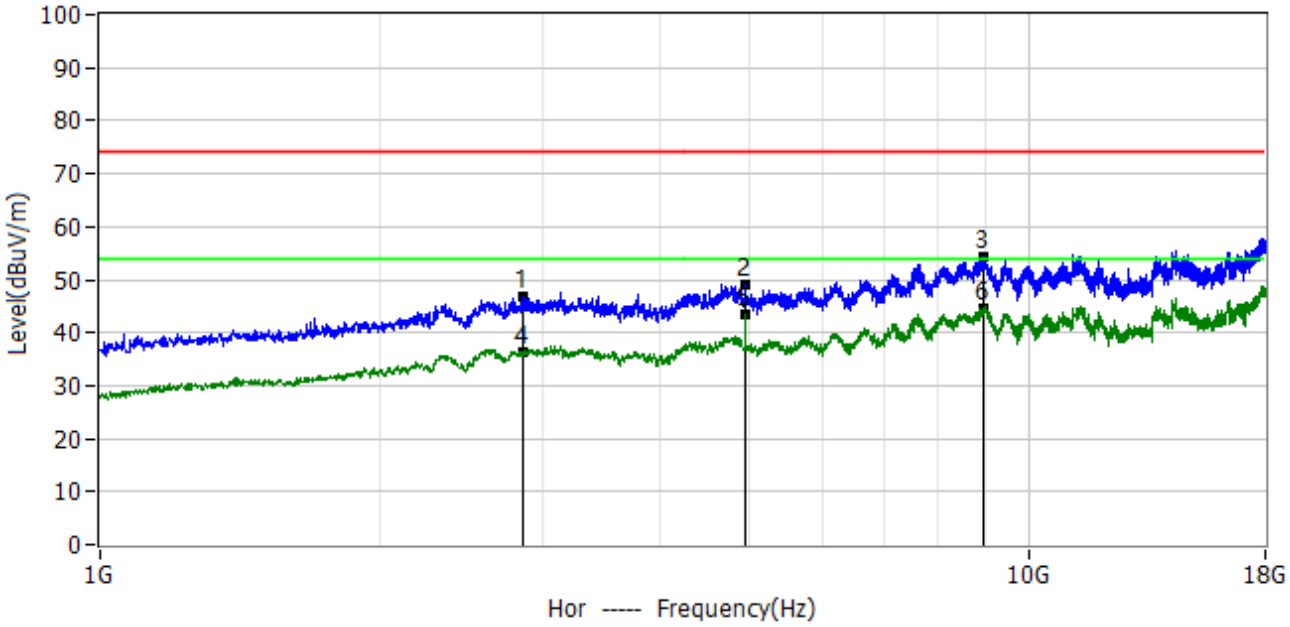
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	3.127GHz	56.04	-8.38	47.66	74.00	-26.34	PK	Hor
2*	4.876GHz	58.19	-6.04	52.15	74.00	-21.85	PK	Hor
3*	8.924GHz	56.87	-1.38	55.49	74.00	-18.51	PK	Hor
4*	3.127GHz	45.38	-8.38	37.00	54.00	-17.00	AV	Hor
5*	4.880GHz	50.48	-6.05	44.43	54.00	-9.57	AV	Hor
6*	8.924GHz	46.28	-1.38	44.90	54.00	-9.10	AV	Hor

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 21.2℃
M/N: MHX_PA_0006	Humidity: 61%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 2M 2440	
Note:	



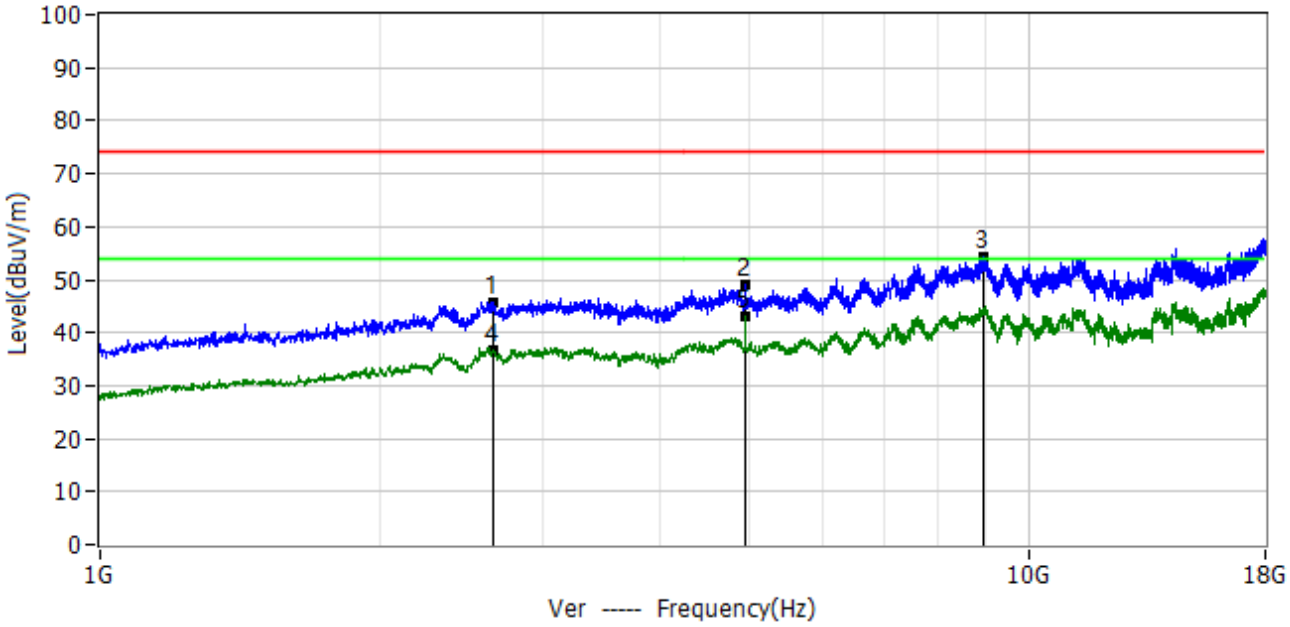
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.653GHz	57.08	-10.17	46.91	74.00	-27.09	PK	Ver
2*	4.876GHz	58.35	-6.04	52.31	74.00	-21.69	PK	Ver
3*	8.863GHz	56.47	-1.56	54.91	74.00	-19.09	PK	Ver
4*	2.653GHz	47.47	-10.17	37.30	54.00	-16.70	AV	Ver
5*	4.878GHz	50.31	-6.05	44.26	54.00	-9.74	AV	Ver
6*	8.863GHz	46.36	-1.56	44.80	54.00	-9.20	AV	Ver

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 21.2℃
M/N: MHX_PA_0006	Humidity: 61%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 2M 2480	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.849GHz	55.96	-9.14	46.82	74.00	-27.18	PK	Hor
2*	4.957GHz	55.23	-6.11	49.12	74.00	-24.88	PK	Hor
3*	8.924GHz	55.61	-1.38	54.23	74.00	-19.77	PK	Hor
4*	2.849GHz	45.34	-9.14	36.20	54.00	-17.80	AV	Hor
5*	4.959GHz	49.37	-6.11	43.26	54.00	-10.74	AV	Hor
6*	8.924GHz	45.78	-1.38	44.40	54.00	-9.60	AV	Hor

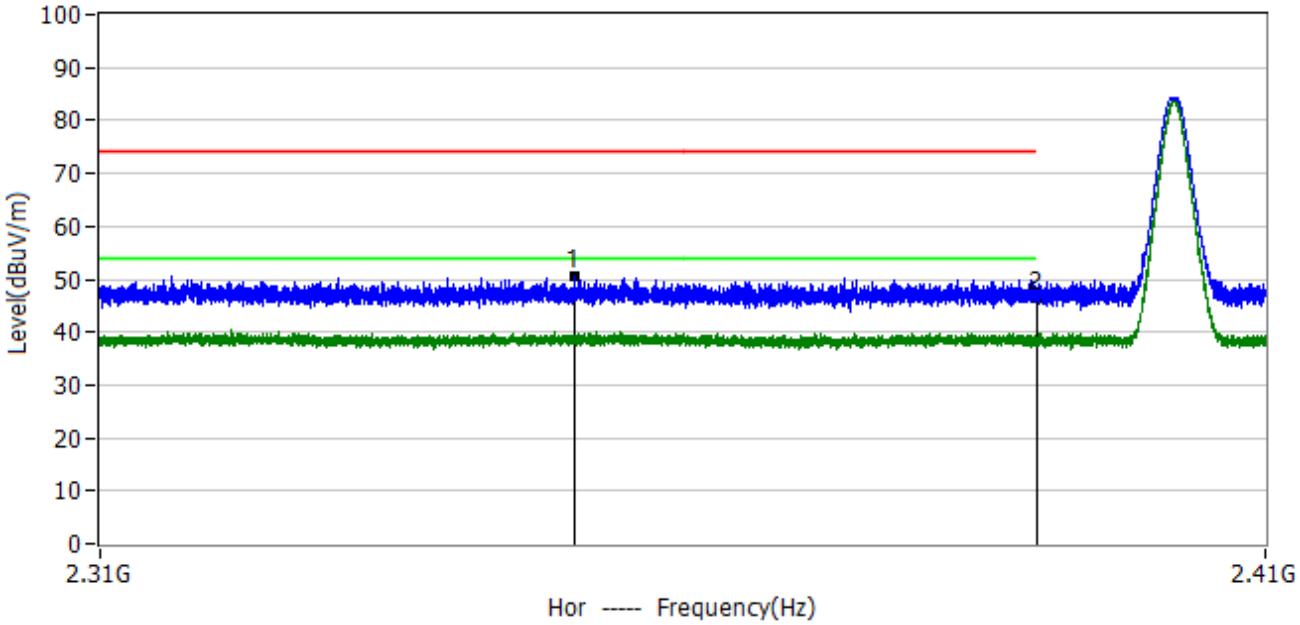
Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 21.2℃
M/N: MHX_PA_0006	Humidity: 61%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 2M 2480	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.649GHz	55.98	-10.20	45.78	74.00	-28.22	PK	Ver
2*	4.957GHz	55.09	-6.11	48.98	74.00	-25.02	PK	Ver
3*	8.937GHz	55.65	-1.35	54.30	74.00	-19.70	PK	Ver
4*	2.649GHz	46.90	-10.20	36.70	54.00	-17.30	AV	Ver
5*	4.959GHz	49.13	-6.11	43.02	54.00	-10.98	AV	Ver

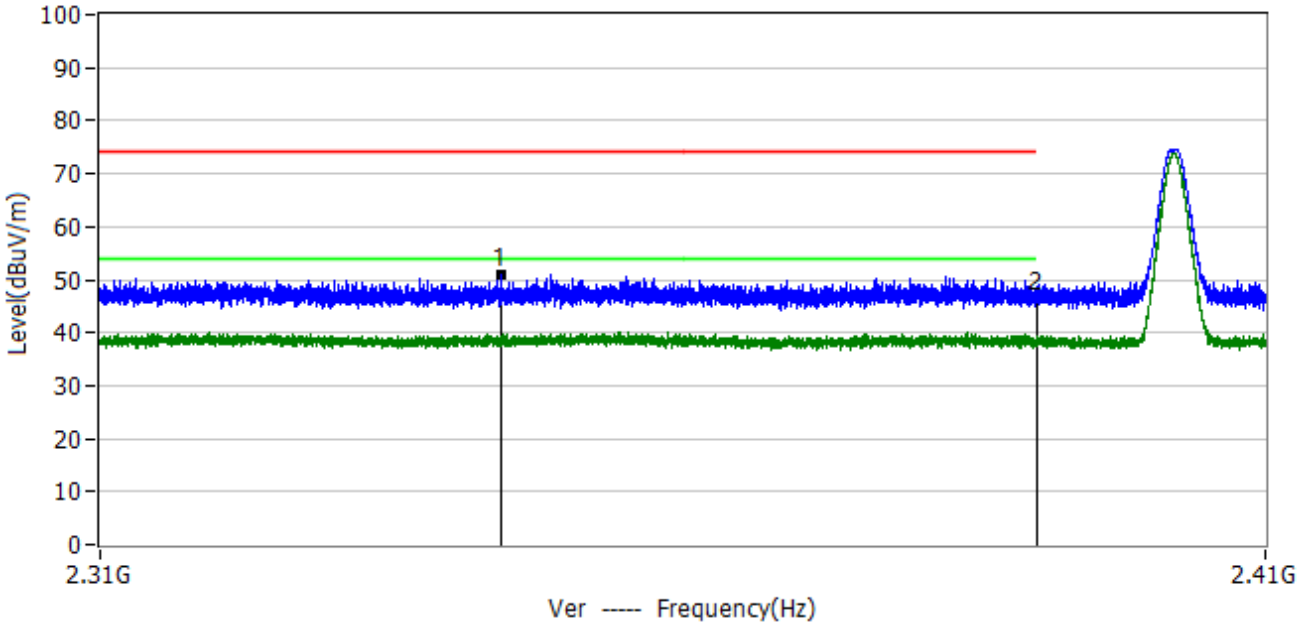
4.7 RADIATED BAND EDGE

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 23.2℃
M/N: MHX_PA_0006	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 1M 2402	
Note:	



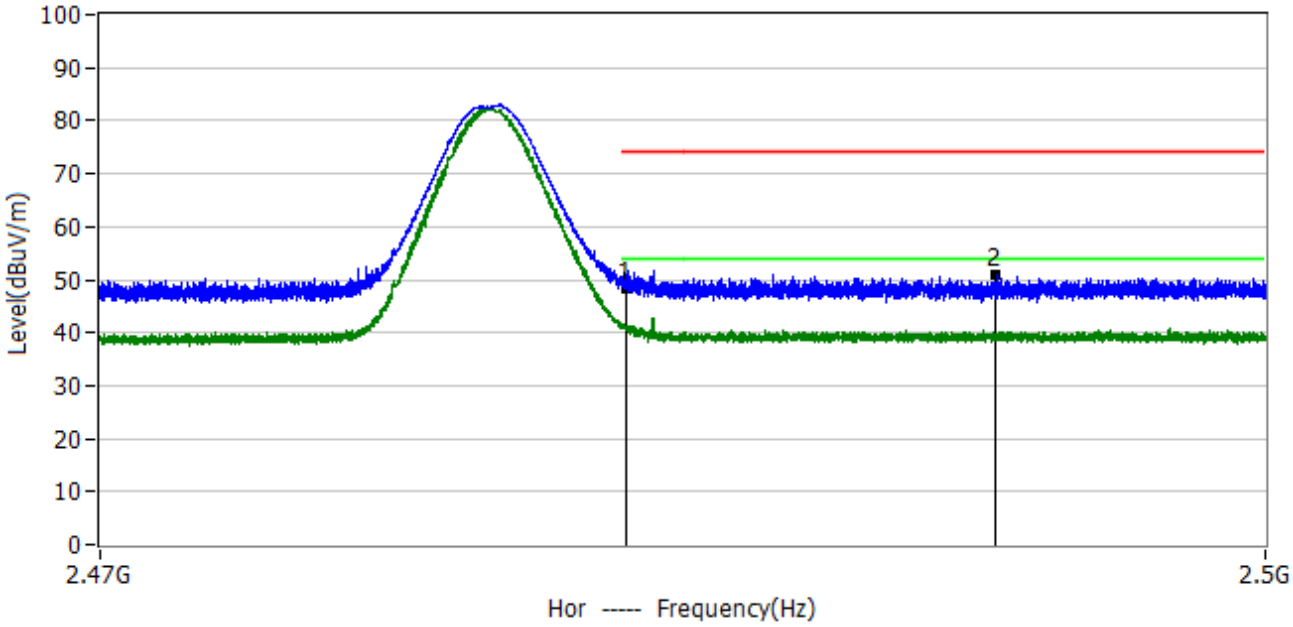
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.3502GHz	16.66	34.05	50.71	74.00	-23.29	PK	Hor
2*	2.3900GHz	12.55	33.95	46.50	74.00	-27.50	PK	Hor

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 23.2℃
M/N: MHX_PA_0006	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 1M 2402	
Note:	



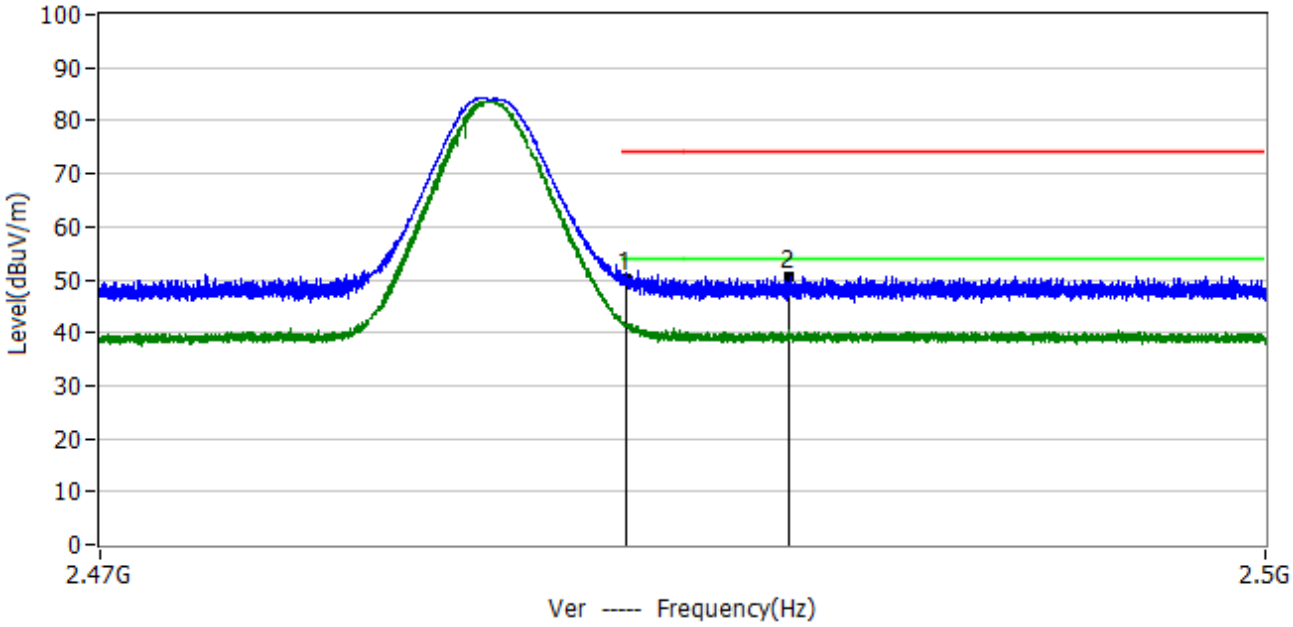
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.3439GHz	17.04	34.06	51.10	74.00	-22.90	PK	Ver
2*	2.3900GHz	12.35	33.95	46.30	74.00	-27.70	PK	Ver

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 23.2℃
M/N: MHX_PA_0006	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 1M 2480	
Note:	



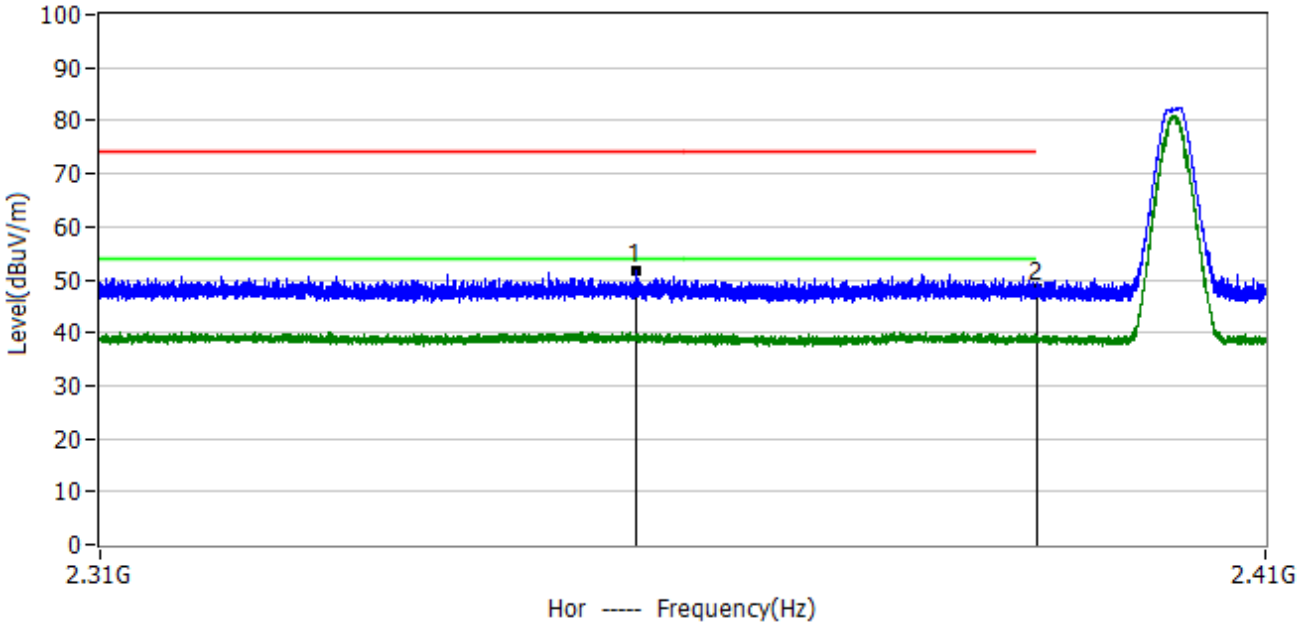
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.4835GHz	14.27	34.13	48.40	74.00	-25.60	PK	Hor
2*	2.4930GHz	16.64	34.15	50.79	74.00	-23.21	PK	Hor

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 23.2℃
M/N: MHX_PA_0006	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 1M 2480	
Note:	



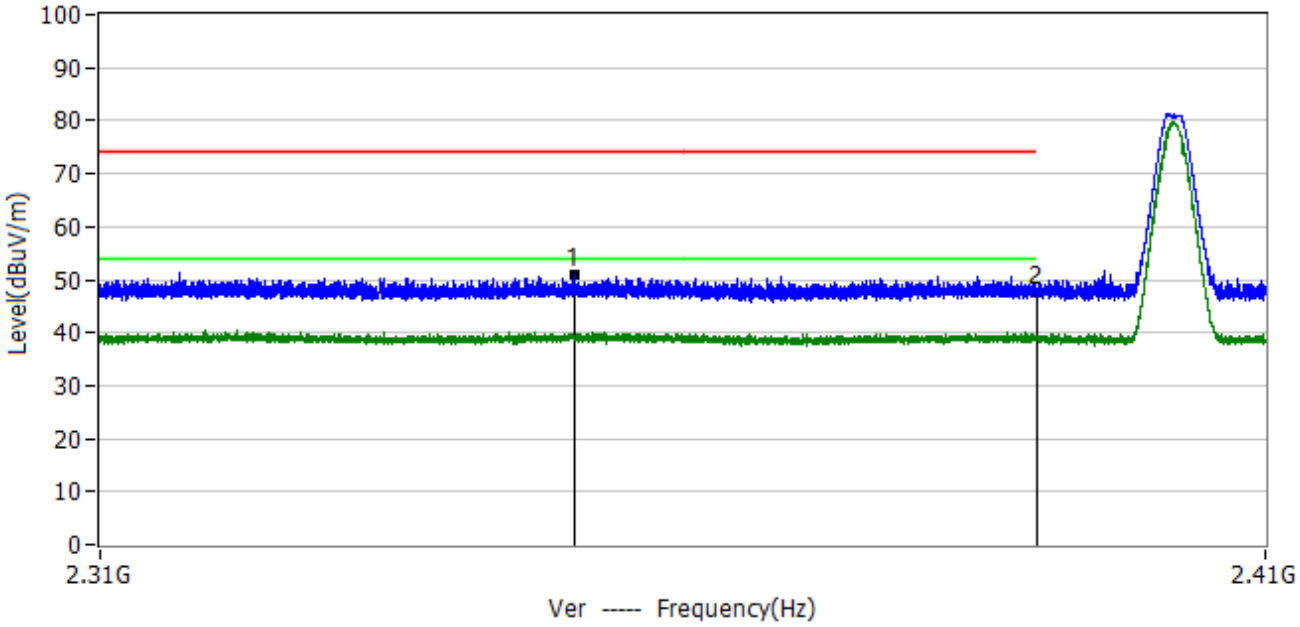
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.4835GHz	16.17	34.13	50.30	74.00	-23.70	PK	Ver
2*	2.4877GHz	16.56	34.14	50.70	74.00	-23.30	PK	Ver

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 23.2℃
M/N: MHX_PA_0006	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 2M 2402	
Note:	



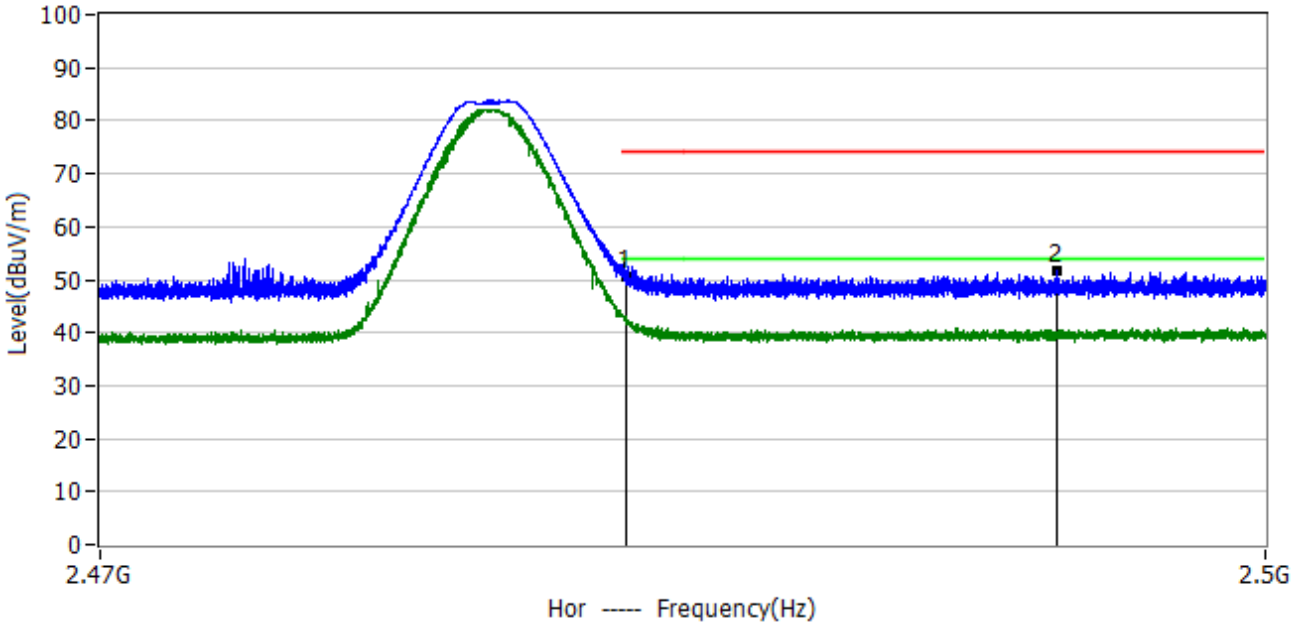
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.3555GHz	17.60	34.03	51.63	74.00	-22.37	PK	Hor
2*	2.3900GHz	14.45	33.95	48.40	74.00	-25.60	PK	Hor

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 23.2℃
M/N: MHX_PA_0006	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 2M 2402	
Note:	



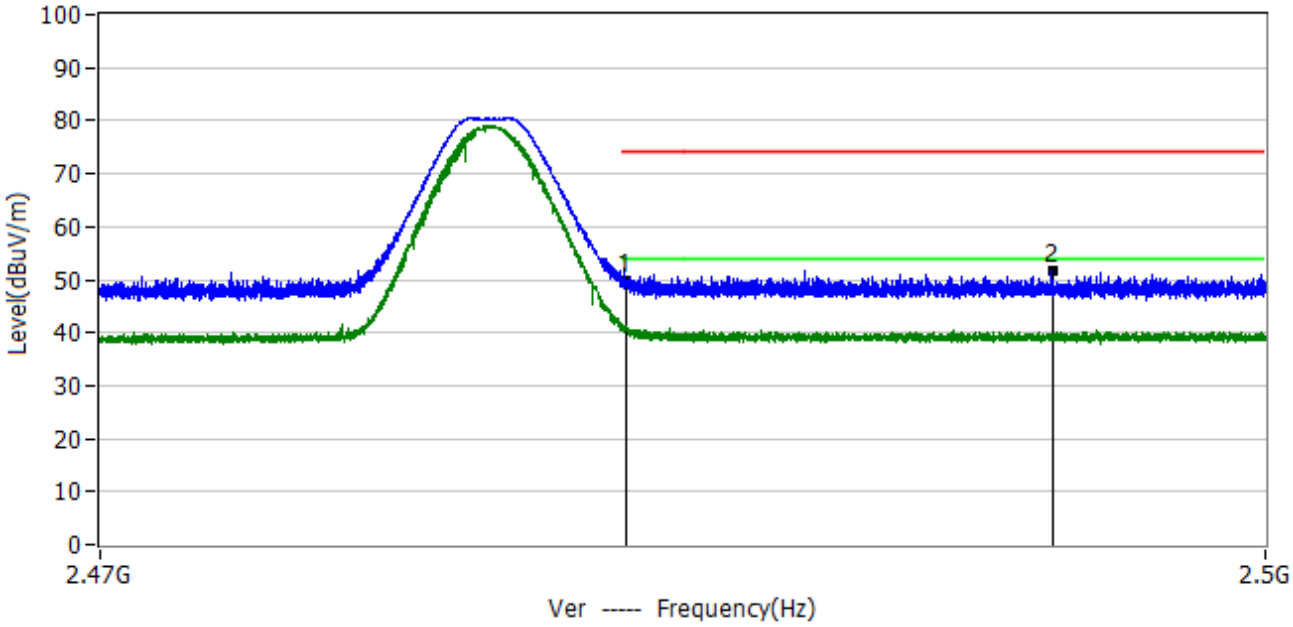
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.3502GHz	16.92	34.05	50.97	74.00	-23.03	PK	Ver
2*	2.3900GHz	13.55	33.95	47.50	74.00	-26.50	PK	Ver

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 23.2℃
M/N: MHX_PA_0006	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 2M 2480	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.4835GHz	16.47	34.13	50.60	74.00	-23.40	PK	Hor
2*	2.4946GHz	17.66	34.15	51.81	74.00	-22.19	PK	Hor

Project: LGT23A016	Test Engineer: Dylan.shi
EUT: MYHIXEL II	Temperature: 23.2℃
M/N: MHX_PA_0006	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2023-02-02
Test Mode: BLE 2M 2480	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.4835GHz	15.87	34.13	50.00	74.00	-24.00	PK	Ver
2*	2.4945GHz	17.49	34.15	51.64	74.00	-22.36	PK	Ver

5. Conducted Spurious & Band Edge Emission

5.1 LIMIT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 – 2407 MHz Upper Band Edge: 2475 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

5.3 TEST SETUP

The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna termina is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

5.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

5.5 TEST RESULTS

For the measurement records，refer to the appendix I.

6. POWER SPECTRAL DENSITY TEST

6.1 LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	≤8 dBm (RBW≥3KHz)	2400-2483.5	PASS

6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW to: 100 kHz ≥ RBW ≥ 3 kHz.
4. Set the VBW ≥ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 TEST SETUP

6.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

6.5 TEST RESULTS

For the measurement records，refer to the appendix I.

7. BANDWIDTH TEST

7.1 LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW≥3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be≥6 dB.

7.3 TEST SETUP

7.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

7.5 TEST RESULTS

For the measurement records，refer to the appendix I.

8. PEAK OUTPUT POWER TEST

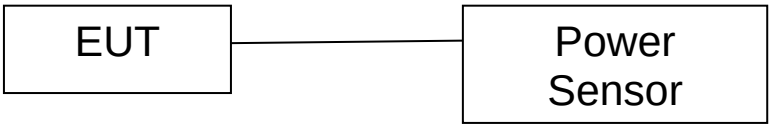
8.1 LIMIT

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

8.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.
RBW ≥ DTS bandwidth
The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:
a) Set the RBW ≥ DTS bandwidth.
b) Set VBW ≥ [3 × RBW].
c) Set span ≥ [3 × RBW].
d) Sweep time = auto couple.
e) Detector = peak.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use peak marker function to determine the peak amplitude level.
Integrated band power method:
The following procedure can be used when the maximum available RBW of the instrument is less than the
DTS bandwidth:
a) Set the RBW = 1 MHz.
b) Set the VBW ≥ [3 × RBW].
c) Set the span ≥ [1.5 × DTS bandwidth].
d) Detector = peak.
e) Sweep time = auto couple.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.
PKPM1 Peak power meter method:
The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

8.5 TEST RESULTS

For the measurement records，refer to the appendix I.

9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

9.2 EUT ANTENNA

The EUT antenna is PCB antenna. It comply with the standard requirement.

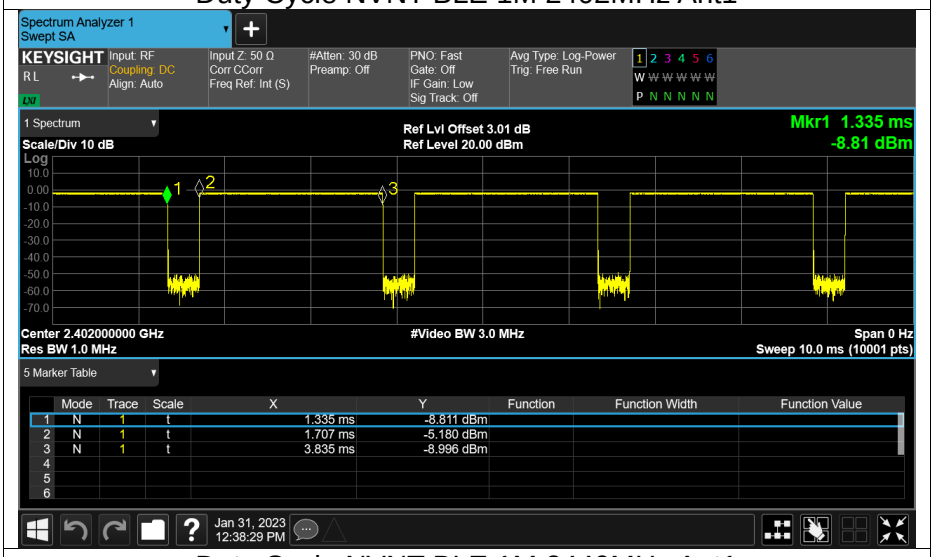
APPENDIX I:TEST RESULTS

DUTY CYCLE

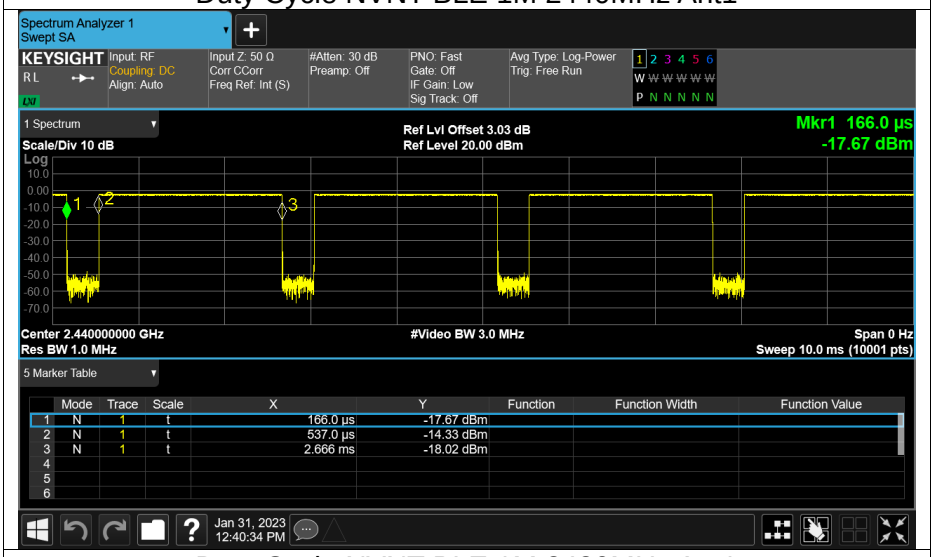
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	85.12	0.7	0.47
NVNT	BLE 1M	2440	Ant1	85.16	0.7	0.47
NVNT	BLE 1M	2480	Ant1	85.16	0.7	0.47
NVNT	BLE 2M	2402	Ant1	43.04	3.66	0.93
NVNT	BLE 2M	2440	Ant1	43.08	3.66	0.93
NVNT	BLE 2M	2480	Ant1	43.04	3.66	0.93

Test Graphs

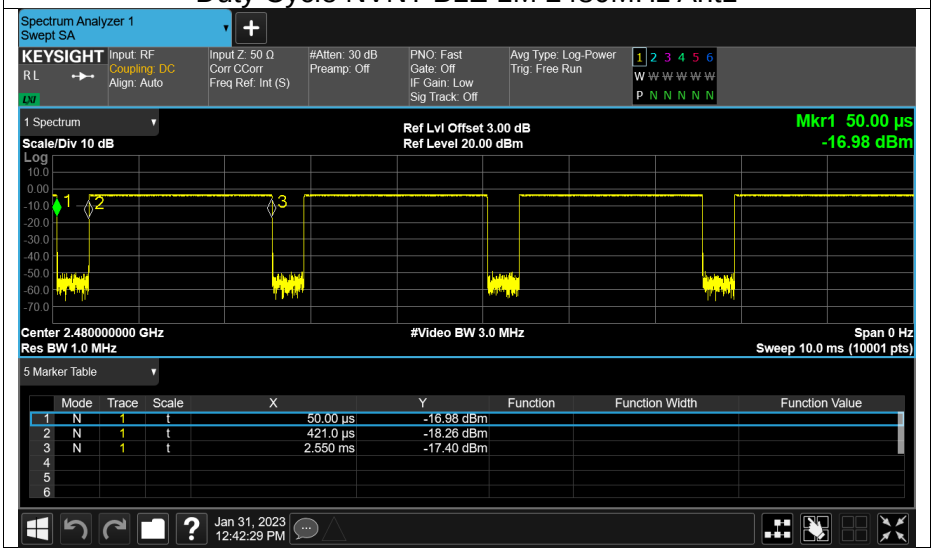
Duty Cycle NVNT BLE 1M 2402MHz Ant1



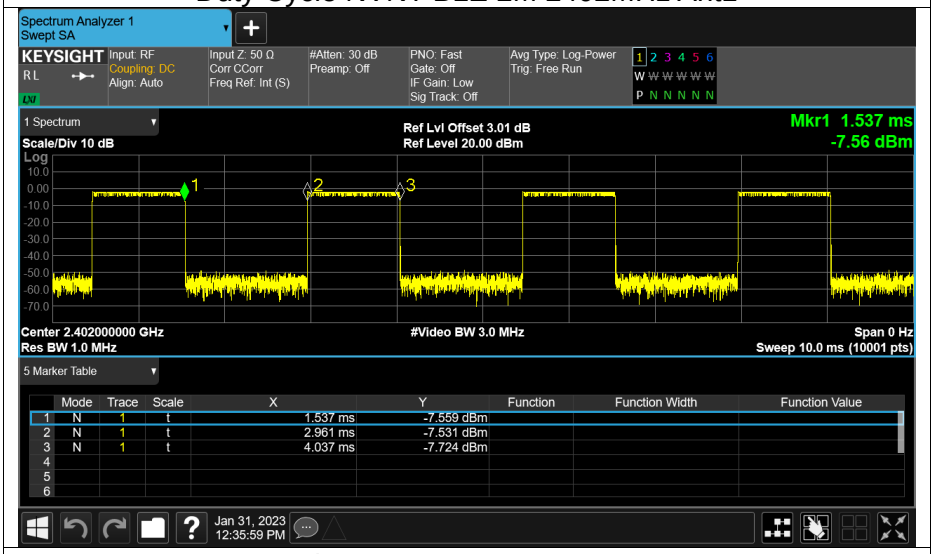
Duty Cycle NVNT BLE 1M 2440MHz Ant1



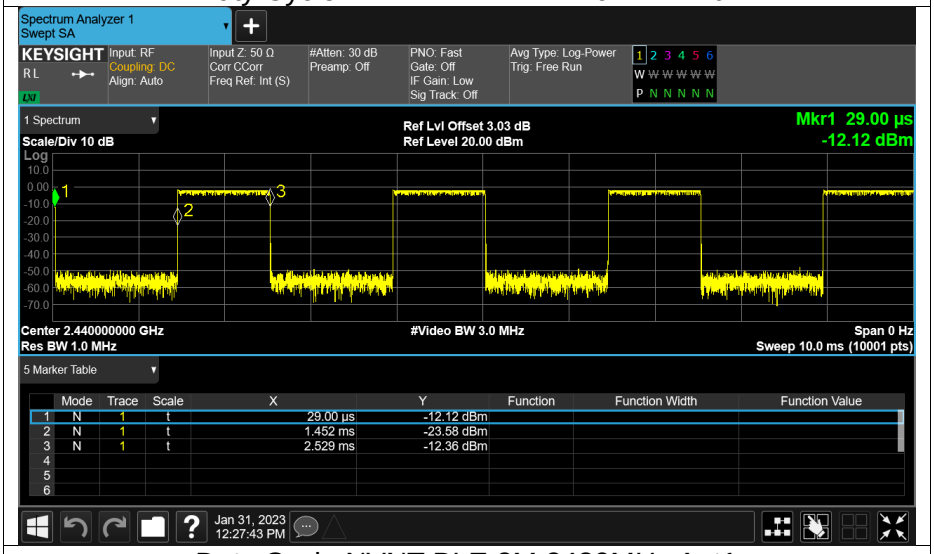
Duty Cycle NVNT BLE 1M 2480MHz Ant1



Duty Cycle NVNT BLE 2M 2402MHz Ant1



Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2480MHz Ant1

MAXIMUM PEAK CONDUCTED OUTPUT POWER

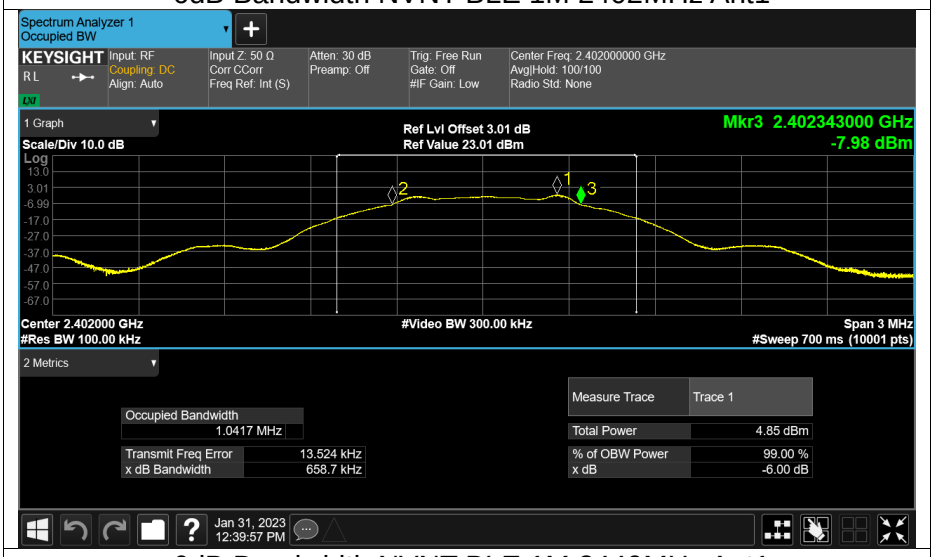
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-1.55	30	Pass
NVNT	BLE 1M	2440	Ant1	-1.76	30	Pass
NVNT	BLE 1M	2480	Ant1	-2.96	30	Pass
NVNT	BLE 2M	2402	Ant1	-1.42	30	Pass
NVNT	BLE 2M	2440	Ant1	-1.63	30	Pass
NVNT	BLE 2M	2480	Ant1	-2.85	30	Pass

-6DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.659	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.661	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.665	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.165	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.167	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.164	0.5	Pass

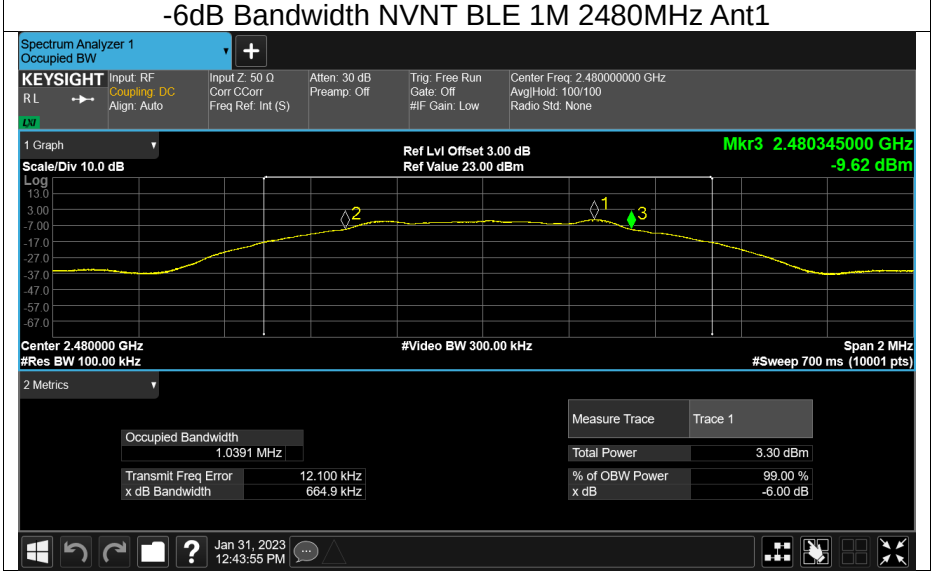
Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1

-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1

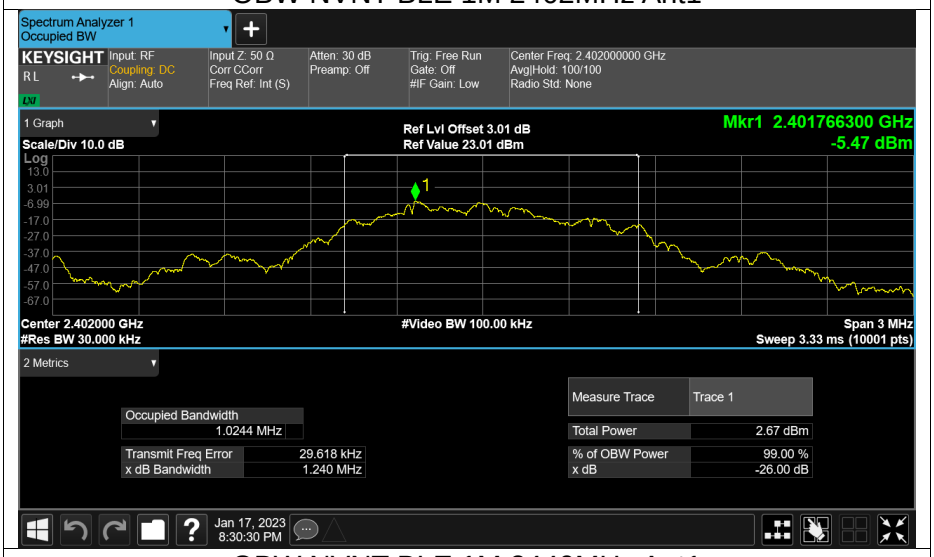
-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1

OCCUPIED CHANNEL BANDWIDTH

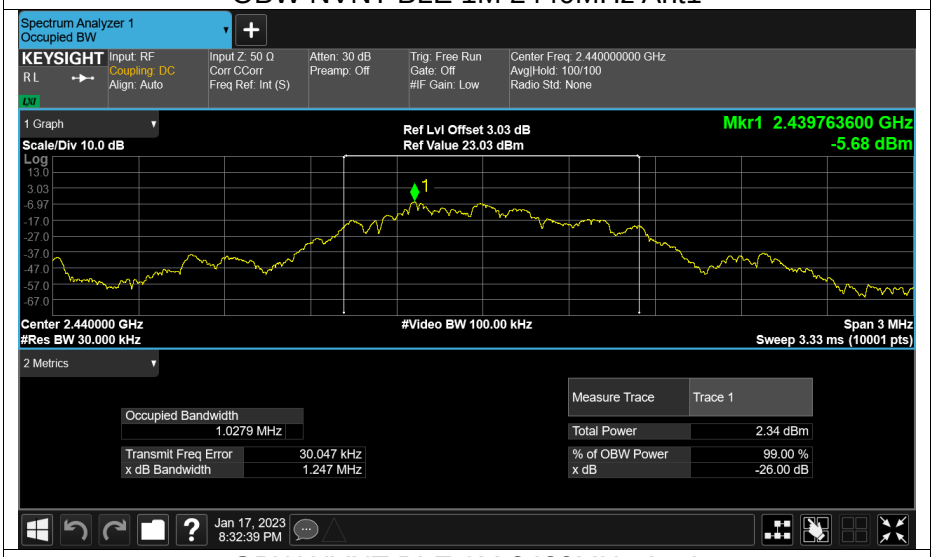
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.024
NVNT	BLE 1M	2440	Ant1	1.028
NVNT	BLE 1M	2480	Ant1	1.022
NVNT	BLE 2M	2402	Ant1	2.039
NVNT	BLE 2M	2440	Ant1	2.042
NVNT	BLE 2M	2480	Ant1	2.03

Test Graphs

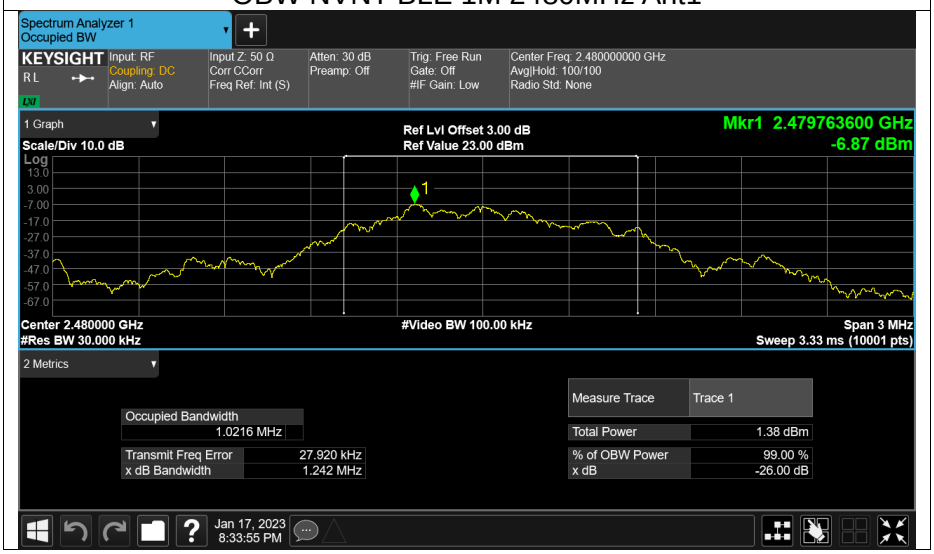
OBW NVNT BLE 1M 2402MHz Ant1



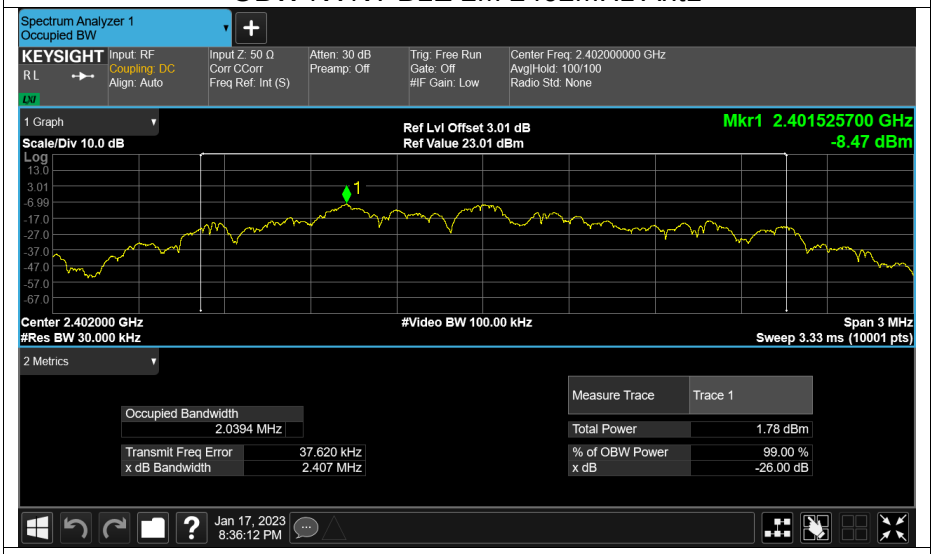
OBW NVNT BLE 1M 2440MHz Ant1



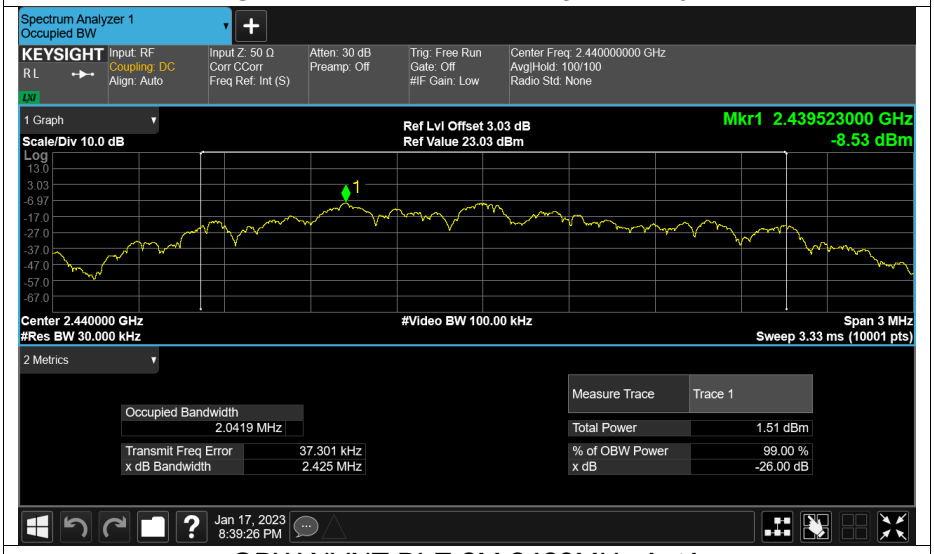
OBW NVNT BLE 1M 2480MHz Ant1



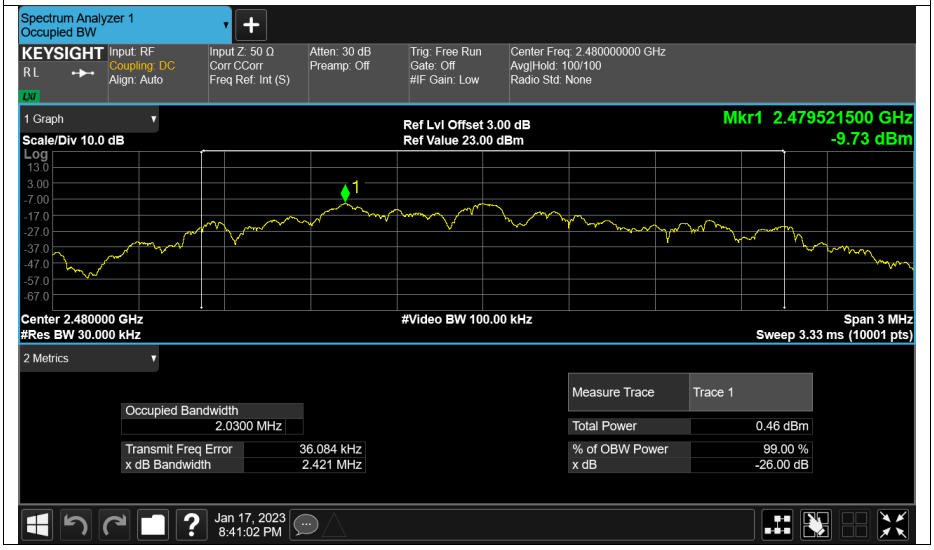
OBW NVNT BLE 2M 2402MHz Ant1



OBW NVNT BLE 2M 2440MHz Ant1



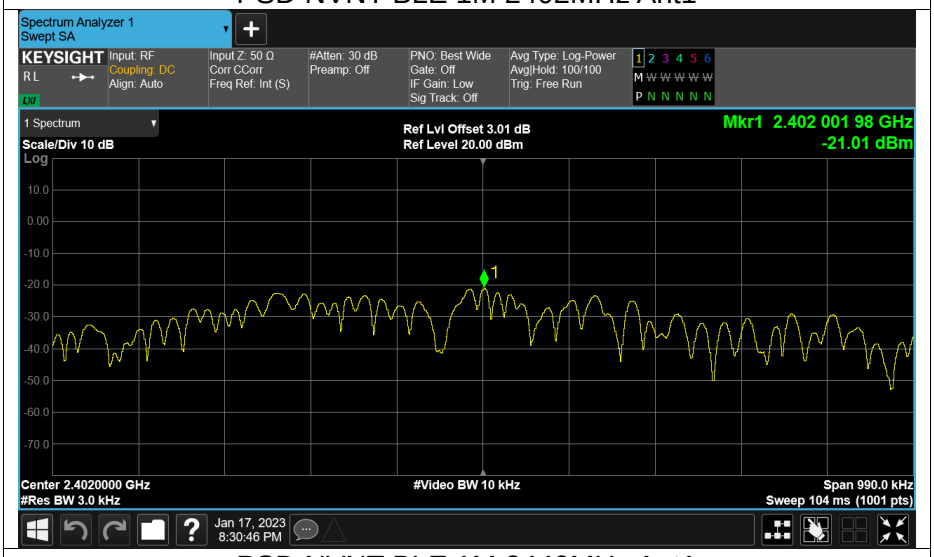
OBW NVNT BLE 2M 2480MHz Ant1



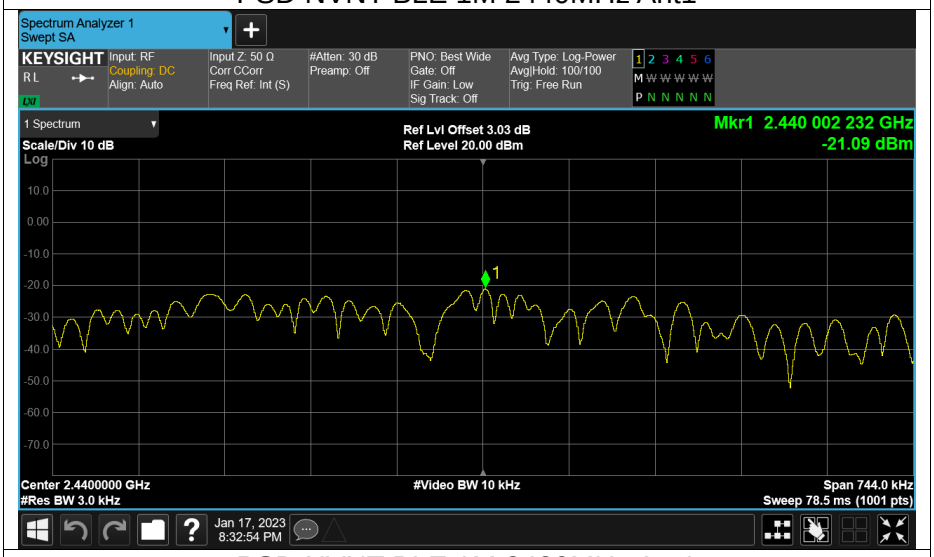
MAXIMUM POWER SPECTRAL DENSITY LEVEL

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-21.01	8	Pass
NVNT	BLE 1M	2440	Ant1	-21.09	8	Pass
NVNT	BLE 1M	2480	Ant1	-22.43	8	Pass
NVNT	BLE 2M	2402	Ant1	-23.89	8	Pass
NVNT	BLE 2M	2440	Ant1	-24.08	8	Pass
NVNT	BLE 2M	2480	Ant1	-25.3	8	Pass

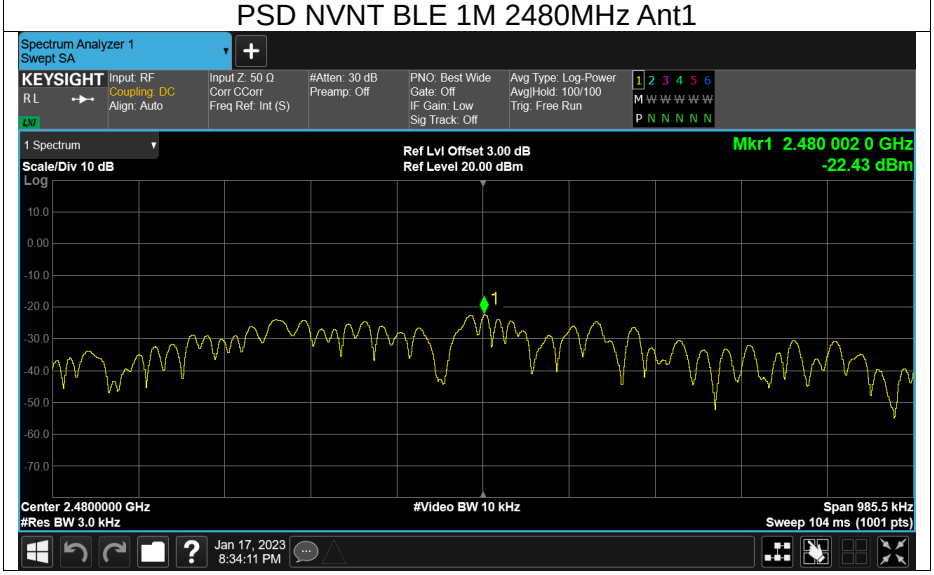
Test Graphs
PSD NVNT BLE 1M 2402MHz Ant1



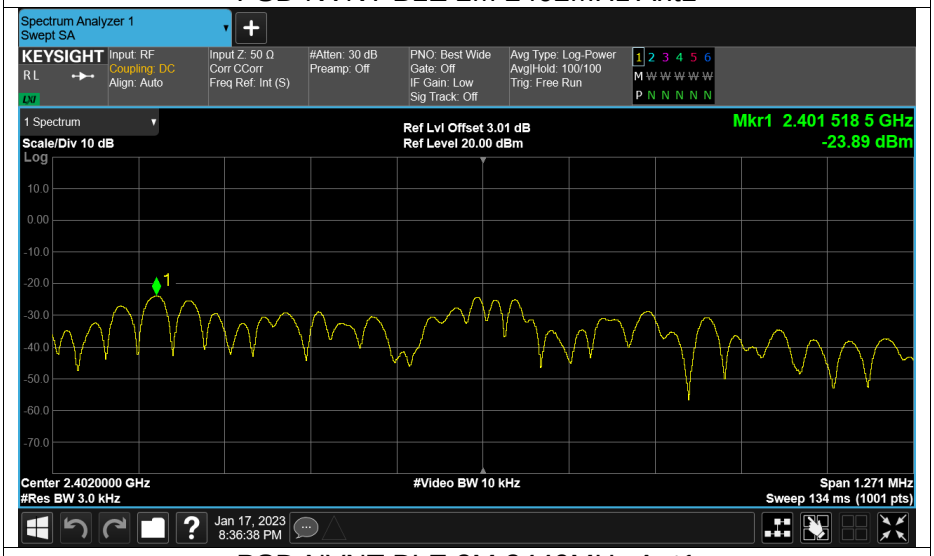
PSD NVNT BLE 1M 2440MHz Ant1



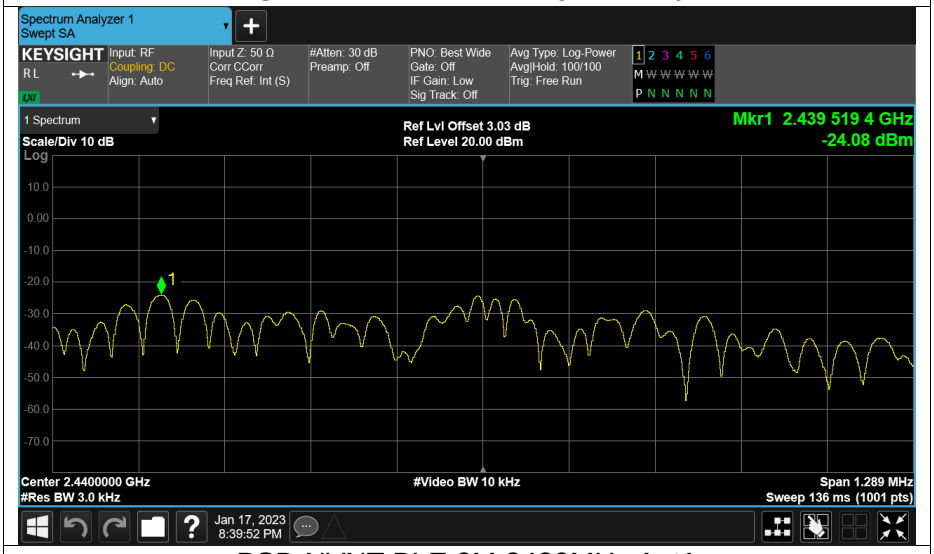
PSD NVNT BLE 1M 2480MHz Ant1



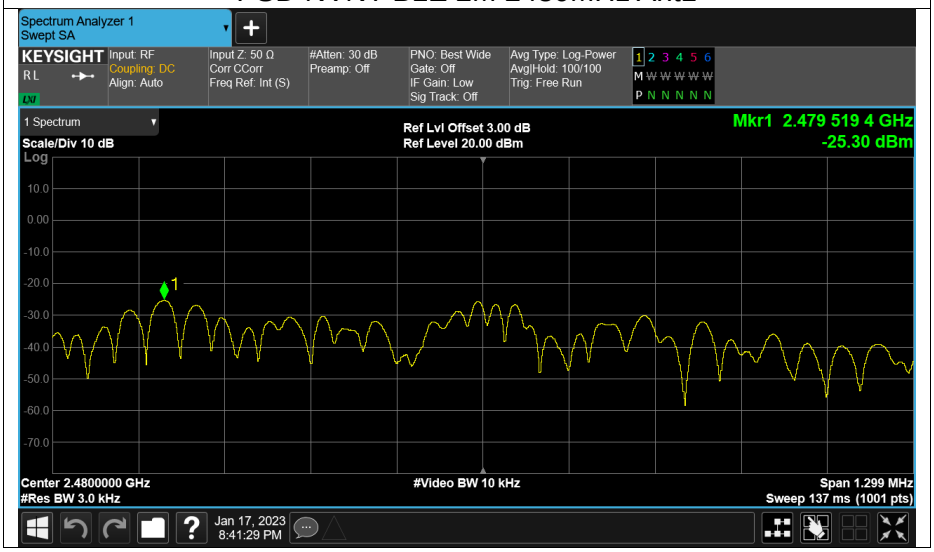
PSD NVNT BLE 2M 2402MHz Ant1



PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1

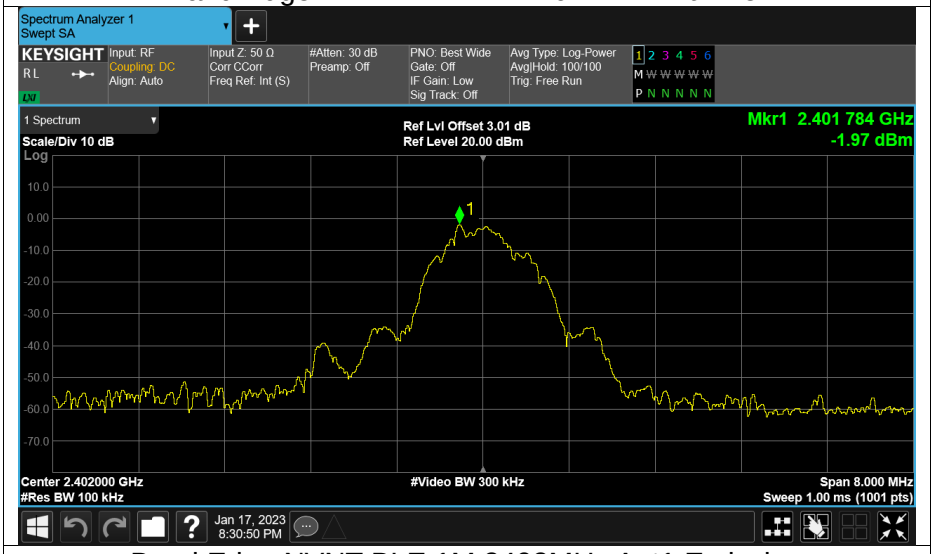


BAND EDGE

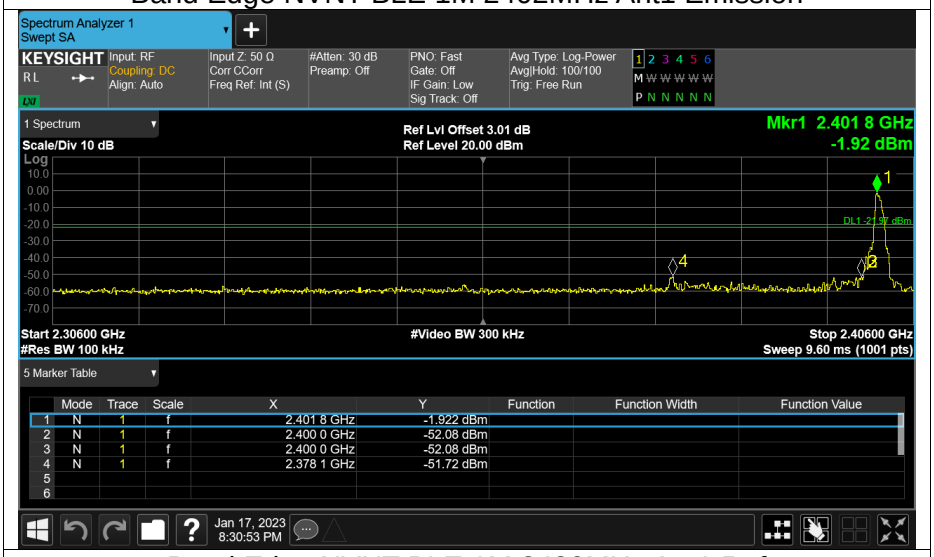
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-49.74	-20	Pass
NVNT	BLE 1M	2480	Ant1	-51.62	-20	Pass
NVNT	BLE 2M	2402	Ant1	-32.36	-20	Pass
NVNT	BLE 2M	2480	Ant1	-51.14	-20	Pass

Test Graphs

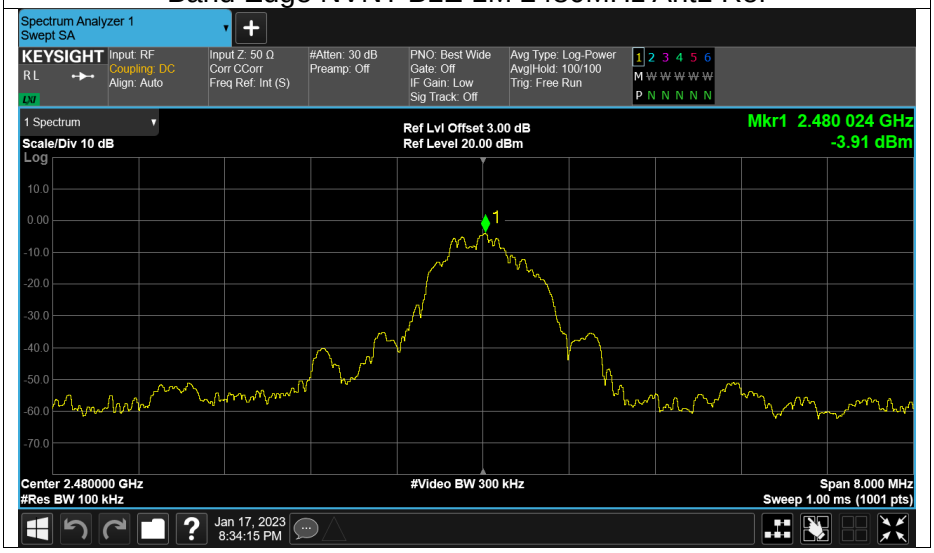
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



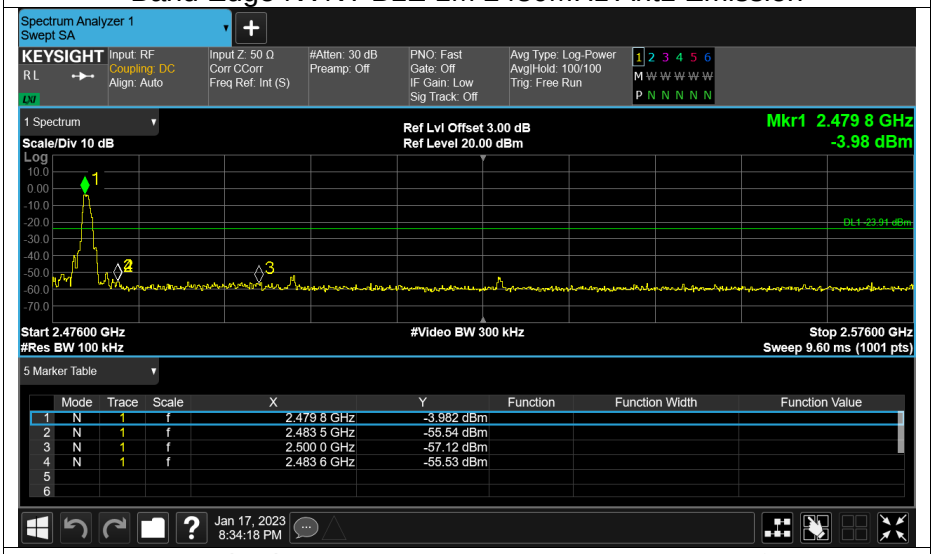
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



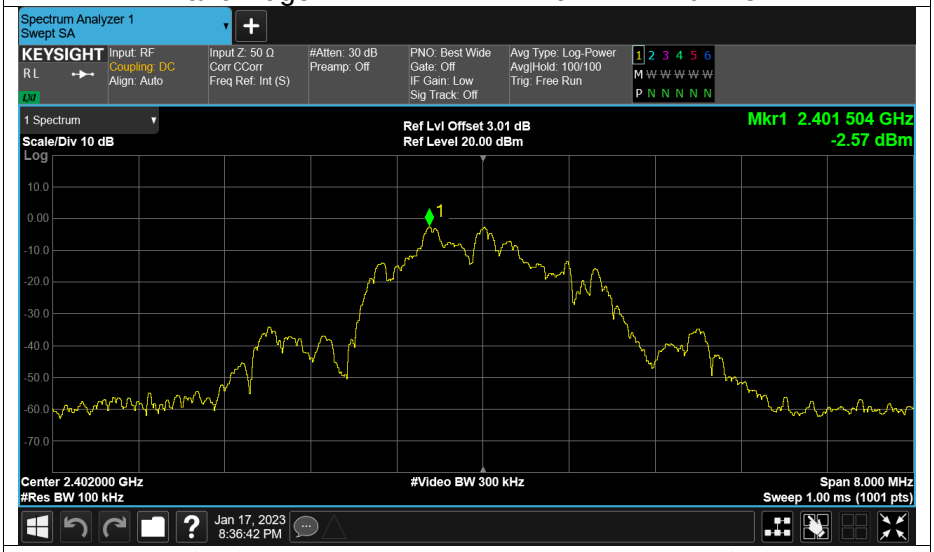
Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



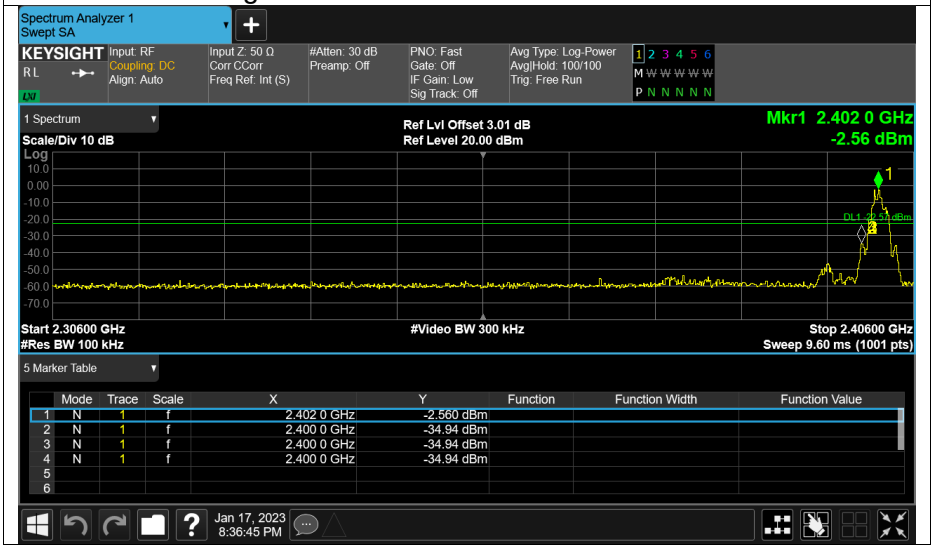
Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



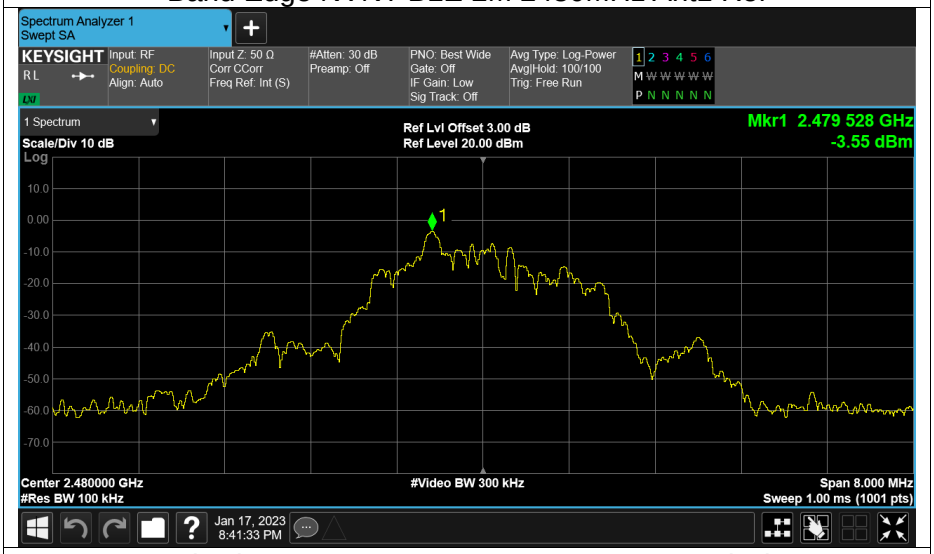
Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



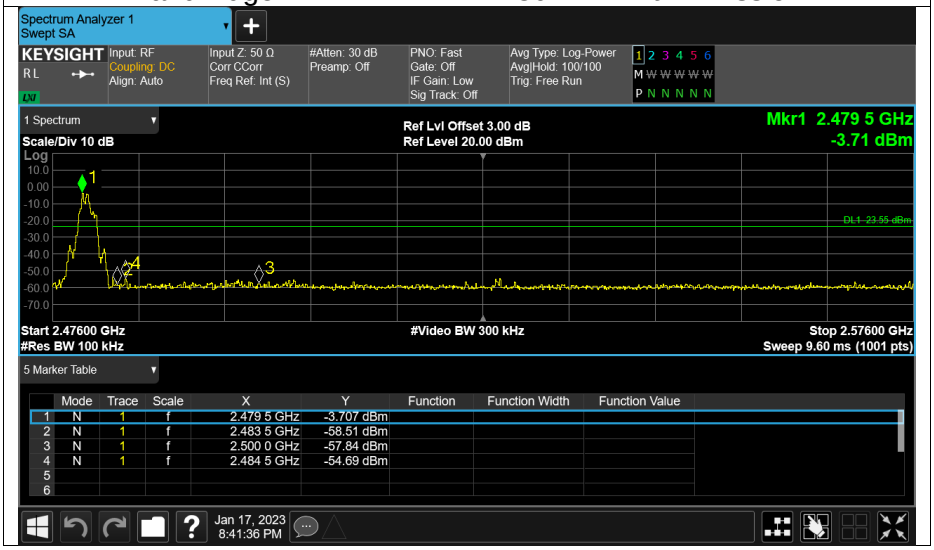
Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission

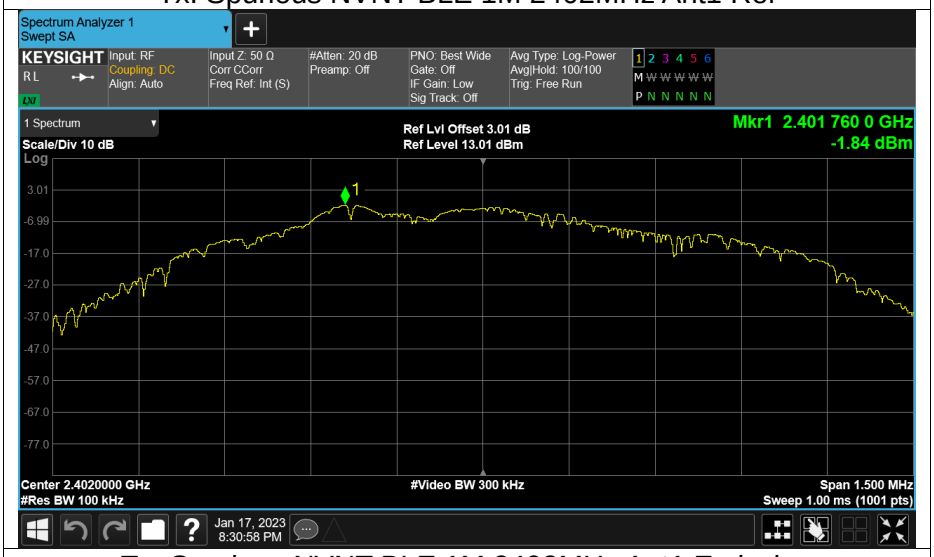


CONDUCTED RF SPURIOUS EMISSION

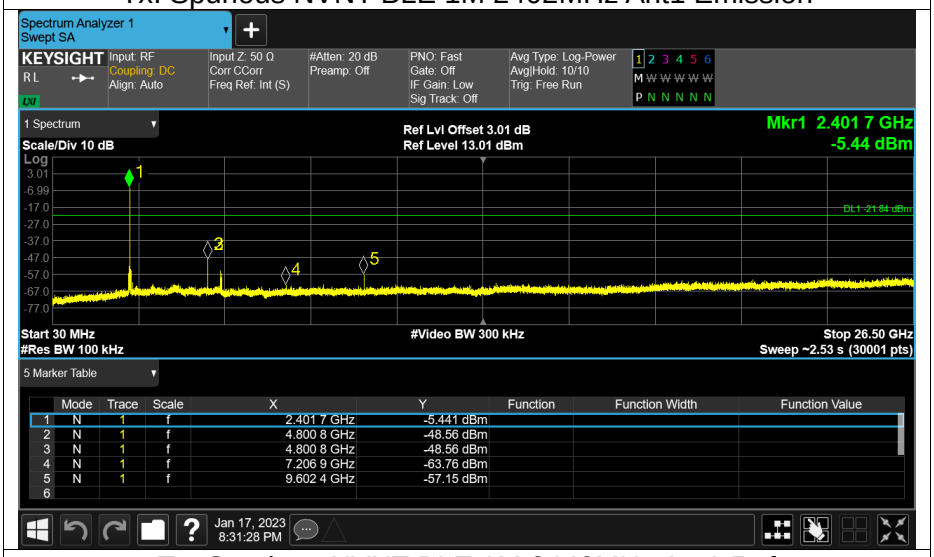
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-46.71	-20	Pass
NVNT	BLE 1M	2440	Ant1	-46.23	-20	Pass
NVNT	BLE 1M	2480	Ant1	-48.73	-20	Pass
NVNT	BLE 2M	2402	Ant1	-45.41	-20	Pass
NVNT	BLE 2M	2440	Ant1	-45.14	-20	Pass
NVNT	BLE 2M	2480	Ant1	-46.28	-20	Pass

Test Graphs

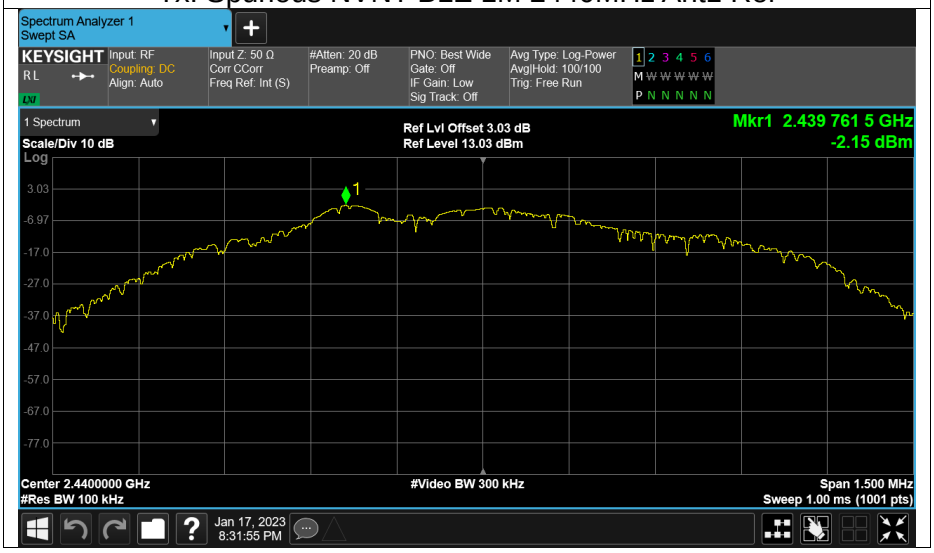
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



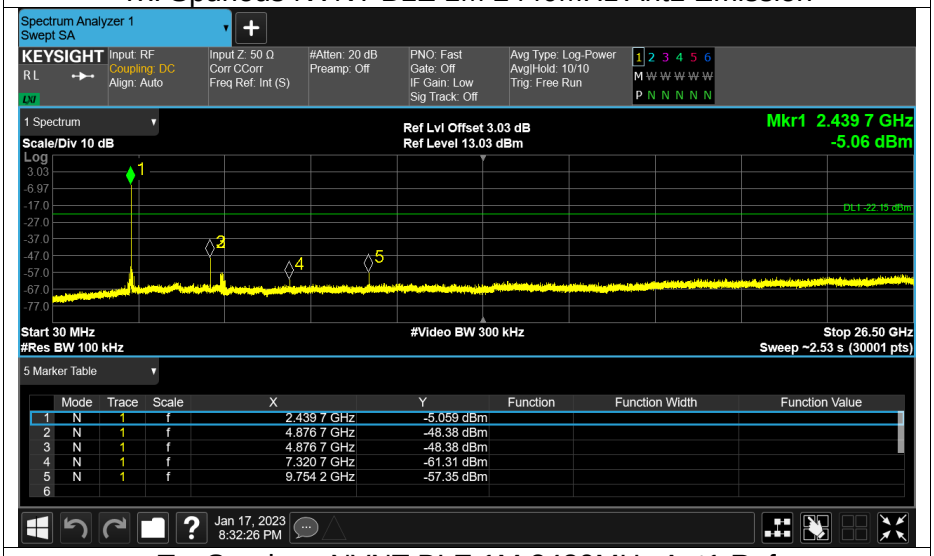
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



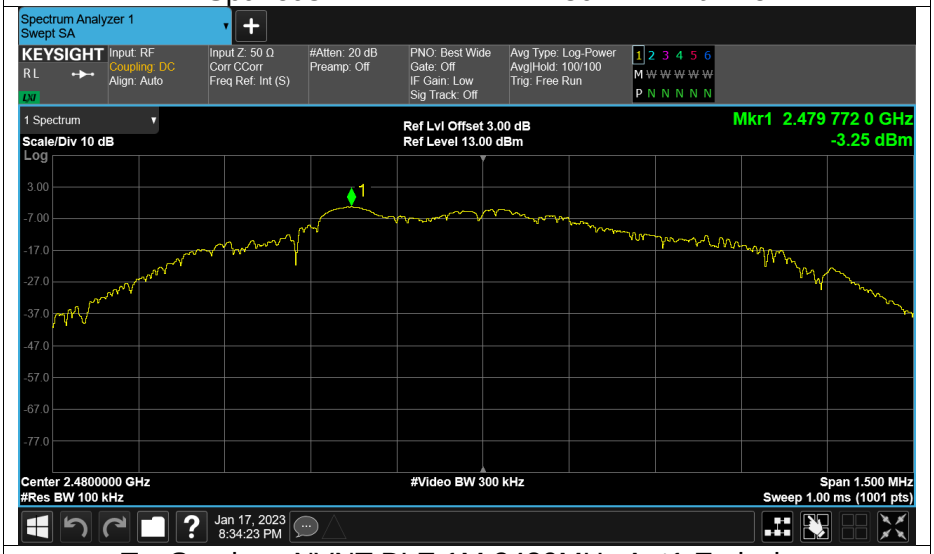
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



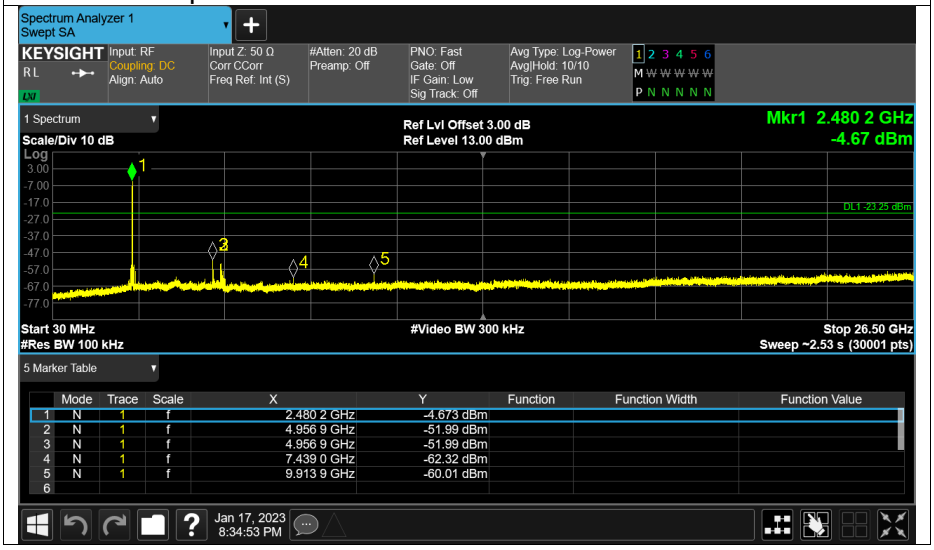
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



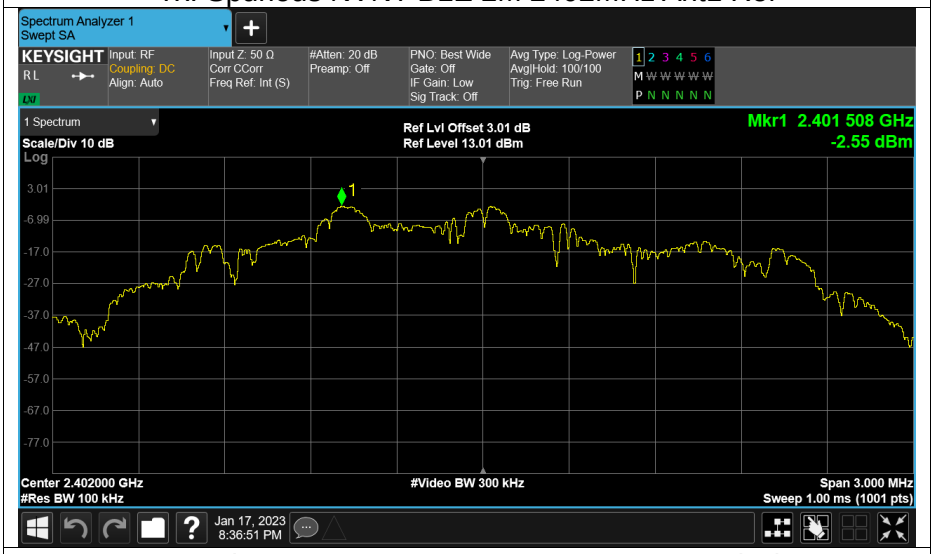
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



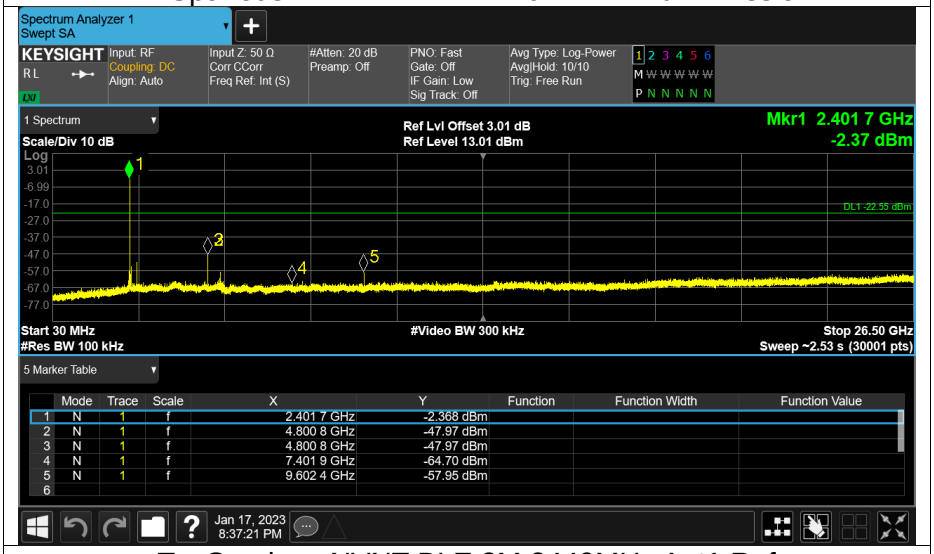
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



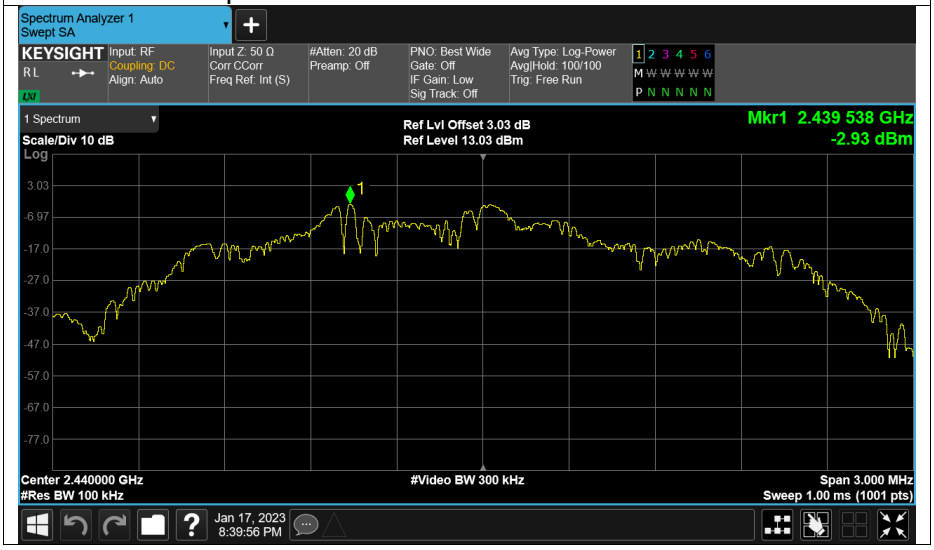
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



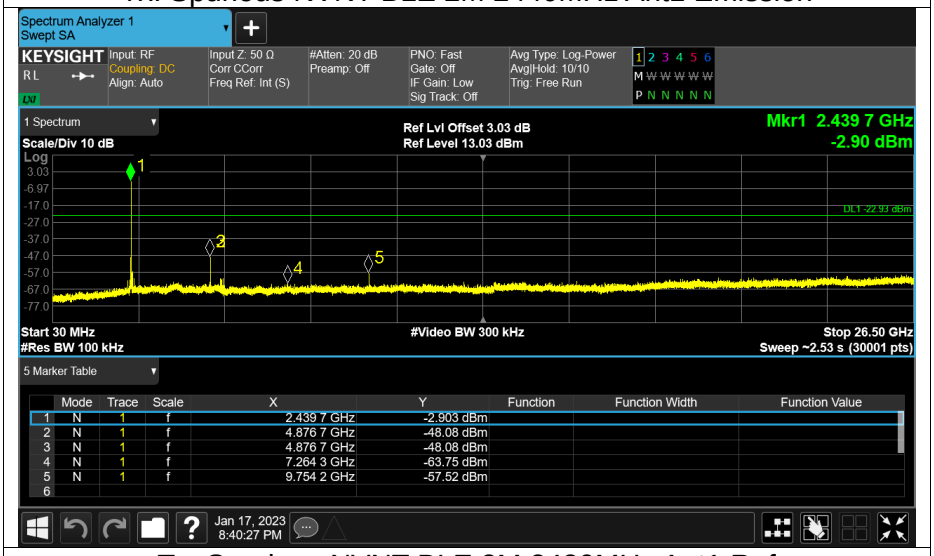
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



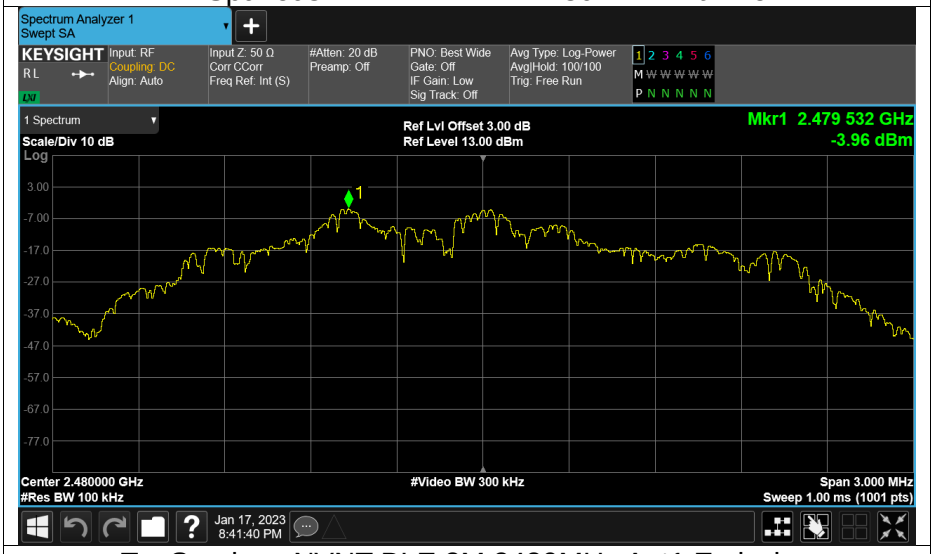
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



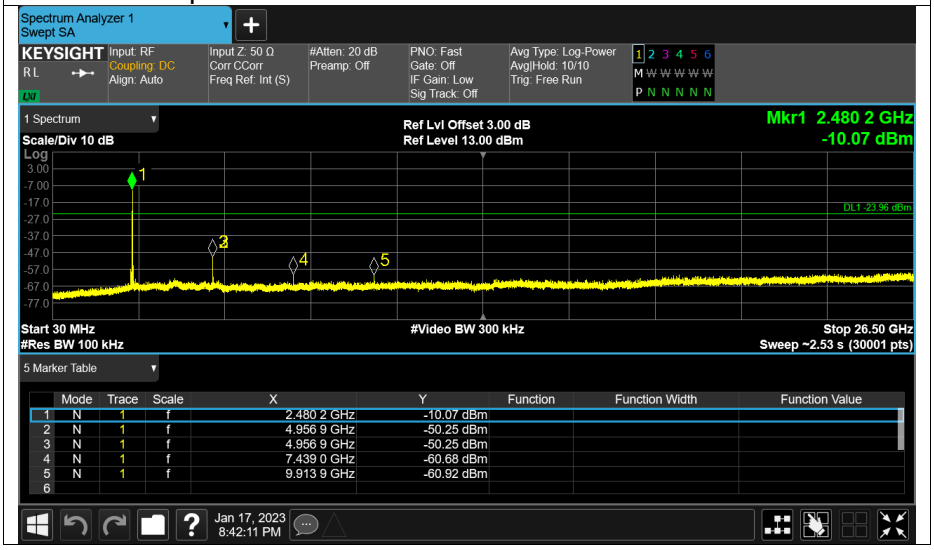
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref

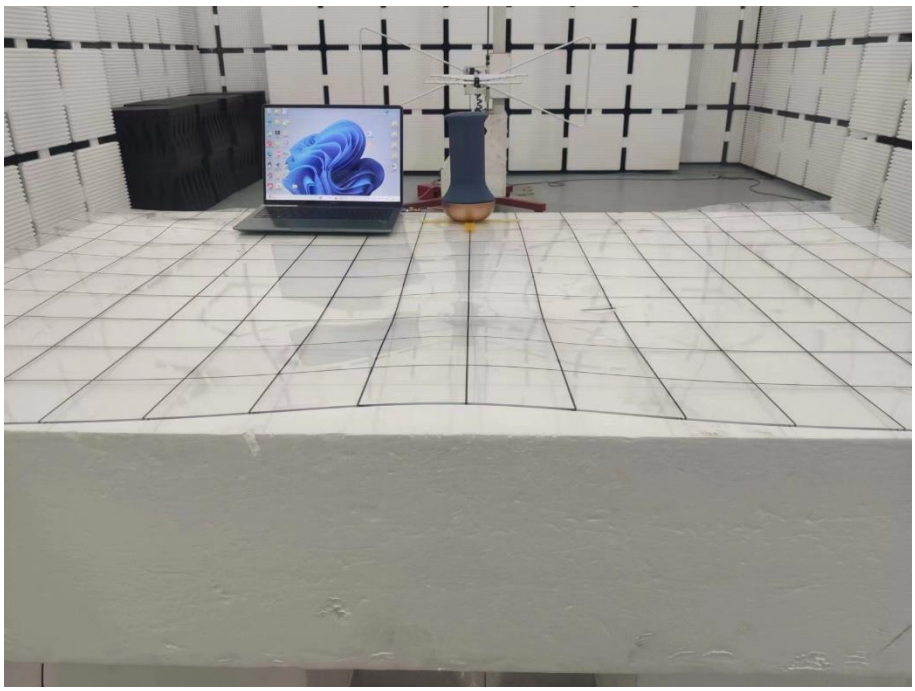


Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission

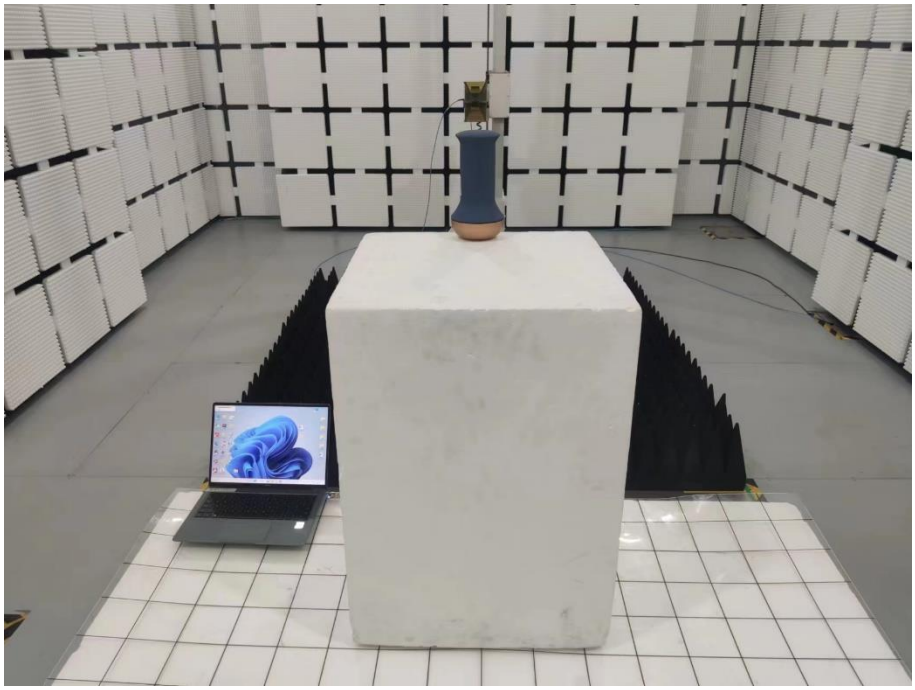


Appendix II- Test Setup photos

Radiated Spurious Emission Test Setup Photo - Below 1GHz



Radiated Spurious Emission Test Setup Photo - Above 1GHz



Conducted Emission Test Setup Photo

※※※※※END OF THE REPORT※※※※※