

FCC AND ISCED CERTIFICATION TEST REPORT

Applicant	:	JiangSu HuiTong Group Co.,Ltd
Address	:	No.24, Block 2, Taohuawu New District Zhenjiang JiangsuP.R.C
Manufacturer	:	JiangSu HuiTong Group Co.,Ltd
Address	:	No.24, Block 2, Taohuawu New District Zhenjiang JiangsuP.R.C
Equipment under Test	:	Bluetooth remote control
Model No.	:	RMF-TY800U, RMF-TY900U
Trade Mark	:	N/A
FCC ID	:	PUW-2K26-YKF532
IC	:	23608-YKF532
Report No.	:	LS-R26031320-14F01
Issue Date	:	Apr. 17, 2026



LabSure Testing Services (Suzhou) Co., Ltd.

Table of Contents

Test Report Declare	4
1. Summary of Test Results	6
2. General Test Information	7
2.1. Description of EUT	7
2.2. Accessories of EUT	7
2.3. Assistant equipment used for test	8
2.4. Block diagram of EUT configuration for test	8
2.5. Test environment conditions	8
2.6. Deviations of test standard	8
2.7. Test laboratory	9
2.8. Measurement uncertainty	9
3. Equipment Used During Test	10
4. 6 dB Bandwidth and 99% Bandwidth	11
4.1. General Information	11
4.2. Block diagram of test setup	11
4.3. Limits	11
4.4. Test procedure	11
4.5. Test result	12
4.6. Original test data	12
5. Maximum Peak Output Power	18
5.1. General Information	18
5.2. Block diagram of test setup	18
5.3. Limits	18
5.4. Test procedure	18
5.5. Test result	19
5.6. Original test data	19
6. Power Spectral Density	22
6.1. General Information	22
6.2. Block diagram of test setup	22
6.3. Limits	22
6.4. Test procedure	22
6.5. Test result	23
6.6. Original test data	23
7. Band Edge Compliance (Conducted Method)	26
7.1. General Information	26
7.2. Block diagram of test setup	26
7.3. Limits	26

7.4.	Test procedure	26
7.5.	Test result.....	27
7.6.	Original test data	27
8.	RF Conducted Spurious Emissions	29
8.1.	General Information	29
8.2.	Block diagram of test setup.....	29
8.3.	Limits	29
8.4.	Test procedure	29
8.5.	Test result.....	30
8.6.	Original test data	31
9.	Radiated Emission	38
9.1.	General Information	38
9.2.	Block diagram of test setup.....	38
9.3.	Limit.....	40
9.4.	Test Procedure.....	41
9.5.	Test result.....	43
10.	Emissions in Restricted Frequency Bands	73
10.1.	General Information	73
10.2.	Block diagram of test setup.....	73
10.3.	Limit.....	73
10.4.	Test Procedure.....	73
10.5.	Test result.....	73
11.	Power Line Conducted Emission	82
11.1.	General Information	82
11.2.	Block diagram of test setup.....	82
11.3.	Power line conducted emission limits	82
11.4.	Test procedure	82
11.5.	Test result.....	83
12.	Antenna Requirements	84
12.1.	Limit.....	84
12.2.	Result	84
13.	Test Setup Photograph	85
14.	Photos of the EUT	85

Test Report Declare

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Address	:	No.24, Block 2, Taohuawu New District Zhenjiang JiangsuP.R.C
Equipment under Test	:	Bluetooth remote control
Model No.	:	RMF-TY800U, RMF-TY900U
Trade Name	:	N/A

Test Standard Used:

47 CFR FCC Part 15 Subpart C (Section 15.247), RSS-247 Issue 4 July 24, 2025

Test Procedure Used:

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024; RSS-Gen Issue 5

Apr. 2018+Amendment 1 March. 2019 +Amendment 2 February 2021

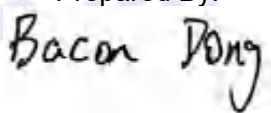
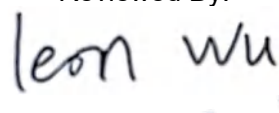
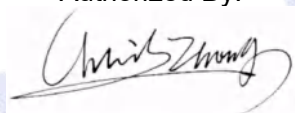
For FCC: ANSI C63.10-2020+Cor. 1-2023

We Declare:

The equipment described above is tested by LabSure Testing Services (Suzhou) Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and LabSure Testing Services (Suzhou) Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC&ISED standards.

Report No:	LS-R26031320-14F01		
Sample No:	Y26031320-01		
Date of Receipt:	Mar. 18, 2026	Date of Test:	Mar. 24, 2026~ Mar. 26, 2026

Prepared By: 	Reviewed By: 	Authorized By: 
Bacon Dong/Engineer	Leon Wu/Director	Chris Zhong/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of LabSure Testing Services (Suzhou) Co., Ltd. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification. The results reported herein have been performed in accordance with the laboratory's terms of accreditation.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Apr. 17, 2026	

1. Summary of Test Results

The EUT have been tested according to the applicable standards as referenced below.		
Description of Test Item	Standard	Verdict
6 dB Bandwidth and 99% Bandwidth	FCC Part 15.247 (a) (2) RSS-247 Clause 6.3.1 (a) RSS-GEN Clause 6.7	Pass
Peak Output Power	FCC Part 15.247 (b) (3) RSS-247 Clause 6.3.2	Pass
Power Spectral Density	FCC Part 15.247 (e) RSS-247 Clause 6.3.1(b)	Pass
Band Edge Compliance (conducted method)	FCC Part 15.247 (d) RSS-247 Clause 6.6	Pass
Radiation Emission	FCC Part 15.209 FCC Part 15.205 RSS-GEN Clause 8.9 & 8.10 RSS-GEN Clause 6.13	Pass
RF Conducted Spurious Emissions	FCC Part 15.247 (d) RSS-247 Clause 6.6 RSS-GEN Clause 6.13	Pass
Emission in Restricted Frequency Bands	FCC Part 15.209 FCC Part 15.205 RSS-GEN Clause 8.9 & 8.10	Pass
Power Line Conducted Emission	FCC Part 15.207 RSS-GEN Clause 8.8	N/A
Antenna Requirement	FCC Part 15.203 RSS-GEN Clause 6.8	Pass
Note: The measurement result for the sample received is <Pass> according to <ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024; FCC CFR 47 Part 2, FCC CFR 47 Part 15C(Part 15.247), RSS-247 Issue 4, RSS-Gen Issue 5 Apr. 2018+ Amendment 1 March. 2019 +Amendment 2 February 2021> when <Simple Acceptance> decision rule is applied.		

2. General Test Information

2.1. Description of EUT

EUT* Name	: Bluetooth remote control
Model Number	: RMF-TY800U, RMF-TY900U
HVIN	: RMF-TY800U, RMF-TY900U
Test Model	: RMF-TY900U
Test Sample Number	: Y26031320-06
Hardware Version	: N/A
Software Version	: N/A
Difference of model number	: N/A
EUT function description	: Please reference user manual of this device.
Power Supply	: Powered by battery
Operation Frequency	: 2402MHz-2480MHz
Modulation	: GFSK
Data Rate	: 1Mbps & 2Mbps
Antenna Type	: PCB Antenna
Antenna Gain	For BLE: : 2400-2483.5MHz: 1.30 dBi (Declare by customer and the lab isn't responsible for the value)
Serial Number	: N/A

Note1: The lab isn't responsible for the value provide by customer (Such as RF cable loss, antenna gain etc..)

Channel information					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454		
13	2428	27	2456		

2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Remark
N/A	N/A	N/A	N/A	N/A

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
Notebook	ASUS	FX506L	N/A	Supplied by lab

2.4. Block diagram of EUT configuration for test



Test software: Non_Signaling_Test, Version: V2.1.

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

The pathloss of external cable: 1dB (According to the manufacturer's claims)

Tested mode, channel, and data rate information			
Mode	Setting Tx Power	Channel	Frequency (MHz)
BLE_1M Tx mode	0.5	Ch Low	2402
	0.5	Ch Middle	2440
	0.5	Ch High	2480
BLE_2M Tx mode	0.5	Ch Low	2404
	0.5	Ch Middle	2440
	0.5	Ch High	2478

Modulation Type	TX Configuration
GFSK	1TX

2.5. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Environment Parameter	Selected Values During Tests
Relative Humidity	40-75%
Atmospheric Pressure:	86-106 kPa
Temperature	21-25 °C
Voltage:	N/A

2.6. Deviations of test standard

No deviation.

2.7. Test laboratory

Lab Information	Company Name: LabSure Testing Services (Suzhou) Co., Ltd. Address: Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, People's Republic of China. Tel: +86-0512-62531270, E-mail: labsure@lab-sure.com, www.lab-sure.com
Accreditation Certificate	A2LA (Certificate No.: 7346.01) LabSure Testing Services (Suzhou) Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1397) LabSure Testing Services (Suzhou) Co., Ltd. has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. IC (IC Designation No.: 32952; CAB No.:CN0182) LabSure Testing Services (Suzhou) Co., Ltd. has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.
Note 1: All tests measurement facilities use to collect the measurement data are located at Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, China. Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS. Note 3: The test anechoic chamber in LabSure Testing Services (Suzhou) Co., Ltd. had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.	

2.8. Measurement uncertainty

Test Item	Uncertainty
DTS Bandwidth	±1.9 %
Maximum Conducted Output Power	± 0.69dB
Maximum Power Spectral Density Level	±1.5 dB
Band-edge Compliance	± 1.9%
Conducted Spurious Emissions	30MHz-1GHz:±1.5 dB
	1GHz-12.75GHz: ±1.9dB
	12.75GHz-26.5GHz: ±2.1dB
Uncertainty for Radiation Emission Test (9kHz - 1 GHz)	9kHz-30MHz: 0.9 dB
	30MHz-1000MHz: 1.5dB
Uncertainty for Radiation Emission Test (1 GHz - 40 GHz)	1GHz – 12.75GHz:1.9 dB
	12.75GHz – 26.5GHz: 2.1 dB
	26.5GHz – 40GHz: 2.5 dB
Uncertainty for Power Line Conduction Emission Test	3.4 dB (150 kHz - 30 MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Test

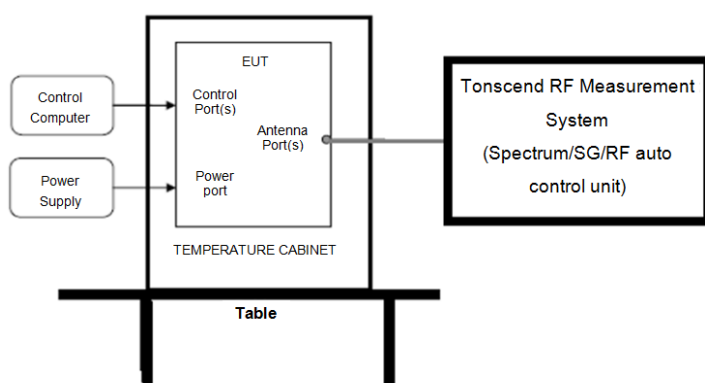
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
RF Conducted Test					
MXG Vector Signal Generator(100kHz-6GHz)	Agilent	N5182A	MY50144775	2026/01/25	1 Year
Spectrum Analyzer(9kHz-40GHz)	R&S	FSV40-N	101642	2026/01/25	1 Year
Vector Signal Generator(4kHz-7.125GHz)	R&S	SMCV100B	103781	2026/01/25	1 Year
WIDBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	167141	2026/01/25	1 Year
Signal Analyzer(10Hz-26.5GHz)	Keysight	N9020B	MY56080159	2026/01/25	1 Year
RF Control Unit	Tonscend	JS0806-2	24A80620795	2026/01/25	1 Year
Signal Generator	R&S	SMF 100A	101396	2026/01/25	1 Year
Temperature, humidity and pressure recorder	Huahanwei	TH10R	c0222020002d	2026/3/2	1 Year
Test Software	TONSCEND	JS1120-3	3.6.21	N/A	N/A
Radiated Spurious Emission 3m EMI Chamber					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
3m Anechoic Chamber	CeRuiTong	3m-SAC	N/A	2024/05/10	3 Year
EMI Test Receiver	R&S	ESC17	101138	2026/01/25	1 Year
Signal Analyzer	R&S	FSV40-N	101730	2026/01/25	1 Year
Hybrid antenna	TESEQ	CBL6141B	27421	2024/01/10	3 Year
Horn Antenna	ETS	ETS 3117	157735	2024/01/19	3 Year
Pre-Amplifier_HF	COM-MW	DPA8-1000-18000-1012	05231357	2026/01/25	1 Year
Low Noise Amplifier	Tonscend	TAP10M1G40N	806JSAP039904251006	2026/01/25	1 Year
Temperature, humidity and pressure recorder	Huahanwei	TH10R	c0222020002F	2026/1/29	1 Year
Test software	TONSCEND	JS35-RSE	5.0.1	N/A	N/A
Power Line Conducted Emissions Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde & Schwarz	ESC13	101705	2026/01/25	1 Year
Two-Line V-Network	Rohde & Schwarz	ENV216	101063	2026/01/25	1 Year
Test software	TONSCEND	JS32-CE	5.0.0	N/A	N/A

4. 6 dB Bandwidth and 99% Bandwidth

4.1. General Information

Test date	Mar. 24, 2026	Test engineer	Luke Li	
Climate condition	Ambient temperature	19.4℃	Relative humidity	58.4%
	Atmospheric pressure	101.6kPa		
Test place	EMC Room 1#			

4.2. Block diagram of test setup



4.3. Limits

FCC Part15 (15.247), Subpart C, RSS 247			
Section	Test Item	Limit	Frequency Range (MHz)
FCC Part 15.247 (a) (2) RSS-247 Clause 6.3.1 (a)	6dB Bandwidth	$\geq 500\text{kHz}$	2400-2483.5
RSS-GEN Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only	2400-2483.5

4.4. Test procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) 99% Bandwidth set the spectrum analyzer as follows:

RBW: RBW, prefer 1% to 5% of OBW,
or a minimum of 1 MHz if this is not possible due to a large OBW

VBW: VBW approximately $3 \times \text{RBW}$

Detector Mode: Peak
 Sweep time: auto
 Trace mode: Max hold

(3) 6 dB Bandwidth set the spectrum analyzer as follows:

RBW: 100 kHz
 VBW: 300 kHz
 Detector Mode: Peak
 Sweep time: auto
 Trace mode: Max hold

(4) Allow the trace to stabilize, measure the 6 dB and 99% bandwidth of signal.

4.5. Test result

Mode	Freq (MHz)	99% bandwidth Result (MHz)	6 dB bandwidth Result (MHz)	6 dB width Limit (MHz)	Verdict
BLE_1M	2402	1.0508	0.648	>0.5	Pass
	2440	1.0341	0.656	>0.5	Pass
	2480	1.0422	0.632	>0.5	Pass
BLE_2M	2404	2.0544	1.088	>0.5	Pass
	2440	2.0947	1.040	>0.5	Pass
	2478	2.0773	1.256	>0.5	Pass

4.6. Original test data

6 dB Bandwidth





BLE 1M Ant1 2480



BLE 2M Ant1 2404



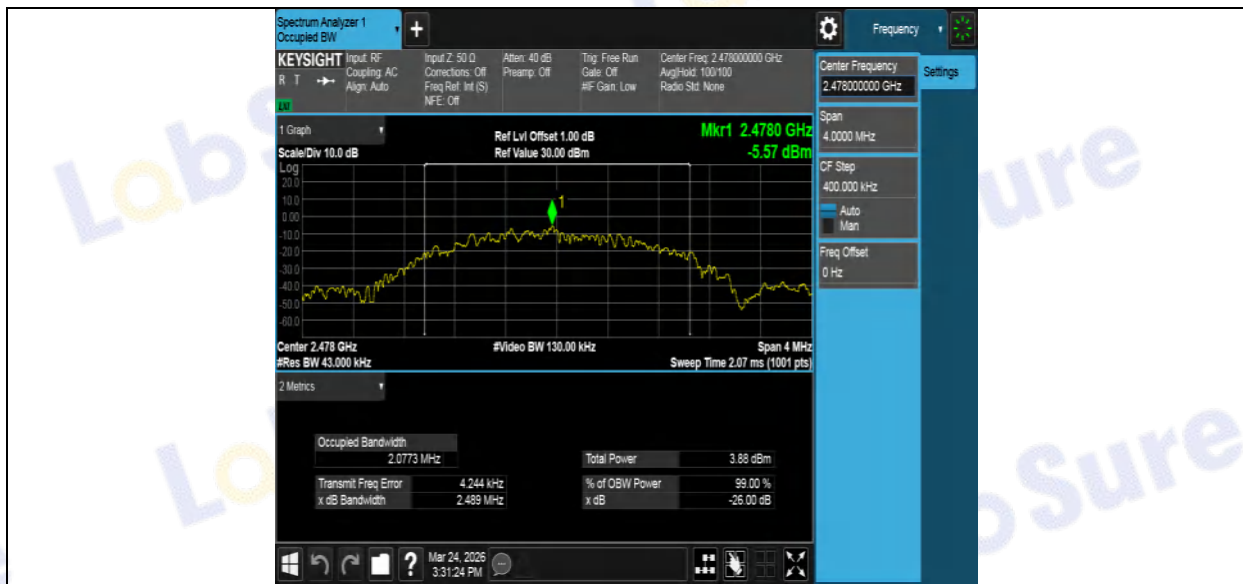
BLE 2M Ant1 2440



99% Bandwidth







5. Maximum Peak Output Power

5.1. General Information

Test date	Mar. 24, 2026	Test engineer	Luke Li	
Climate condition	Ambient temperature	19.4°C	Relative humidity	58.4%
	Atmospheric pressure	101.6kPa		
Test place	EMC Room 1#			

5.2. Block diagram of test setup

Same with 4.1

5.3. Limits

FCC Part15 (15.247) Subpart C, RSS 247			
Section	Test Item	Limit	Frequency Range (MHz)
FCC Part 15.247 (b)(3) RSS-247 Clause 6.3.2	Output Power	1 watt or 30dBm	2400-2483.5
		4 watt or 36dBm (EIRP)	

If transmitting antennas of directional gain greater than 6dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5.4. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Set the spectrum analyzer as follows:

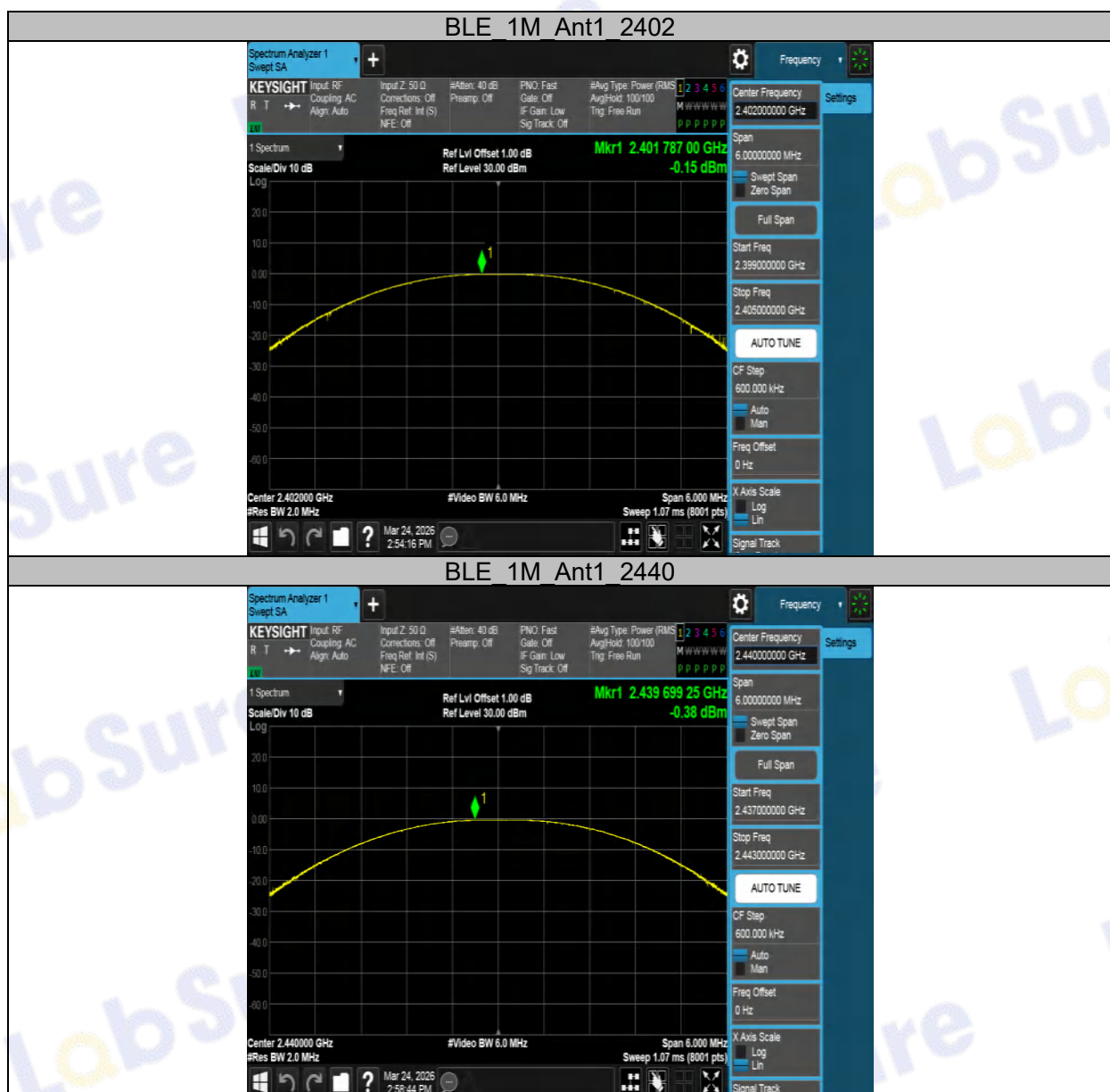
RBW:	≥DTS bandwidth
VBW:	≥3 x RBW
Span	≥3 x RBW
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

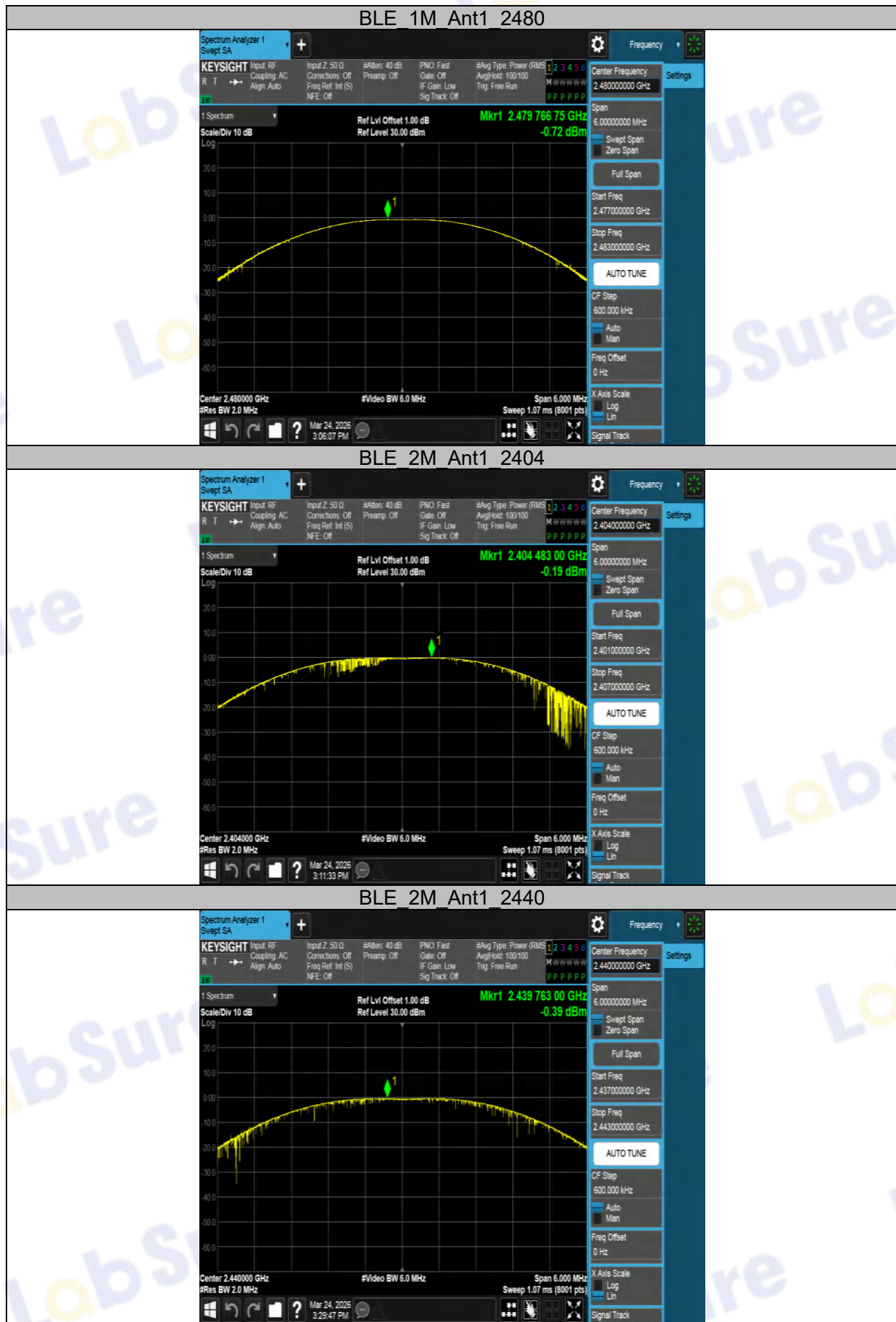
(3) Allow the trace to stabilize, Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges measure out the PK output power.

5.5. Test result

Mode	Freq. (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	2402	-0.15	≤30	1.15	≤36	PASS
	2440	-0.38	≤30	0.92	≤36	PASS
	2480	-0.72	≤30	0.58	≤36	PASS
BLE_2M	2404	-0.19	≤30	1.11	≤36	PASS
	2440	-0.39	≤30	0.91	≤36	PASS
	2478	-0.69	≤30	0.61	≤36	PASS

5.6. Original test data







6. Power Spectral Density

6.1. General Information

Test date	Mar. 24, 2026	Test engineer	Luke Li	
Climate condition	Ambient temperature	19.4°C	Relative humidity	58.4%
	Atmospheric pressure	101.6kPa		
Test place	EMC Room 1#			

6.2. Block diagram of test setup

Same with 4.1

6.3. Limits

FCC Part15 (15.247), Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
FCC Part 15.247 (e) RSS-247 Clause 6.3.1(b)	Power Spectral Density	8 dBm/3 kHz	2400-2483.5

6.4. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Set the spectrum analyzer as follows:

Center frequency	DTS Channel center frequency
RBW:	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW:	$\geq 3\text{RBW}$
Span	1.5 times the DTS bandwidth
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

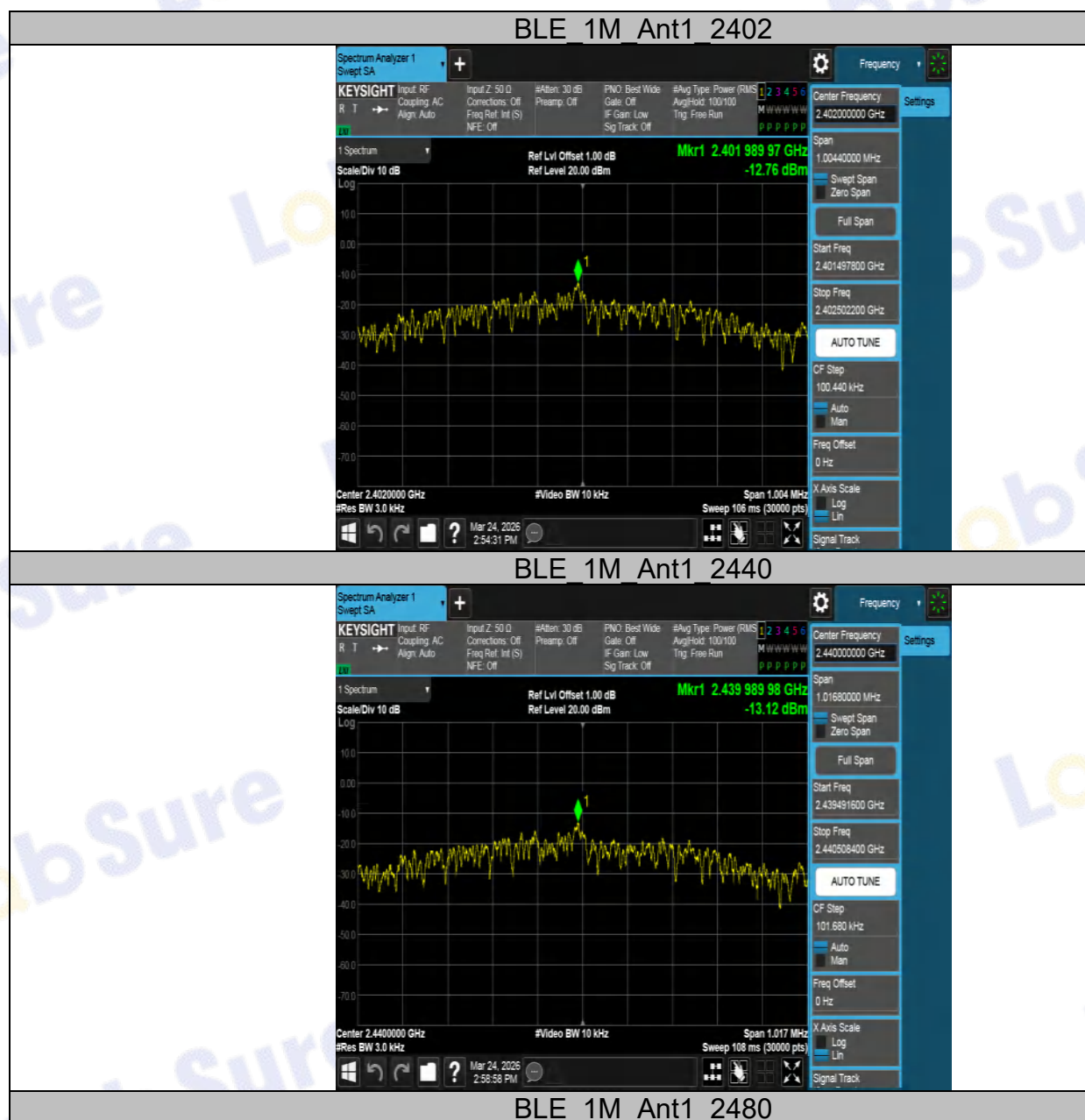
(3) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.

(4) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.5. Test result

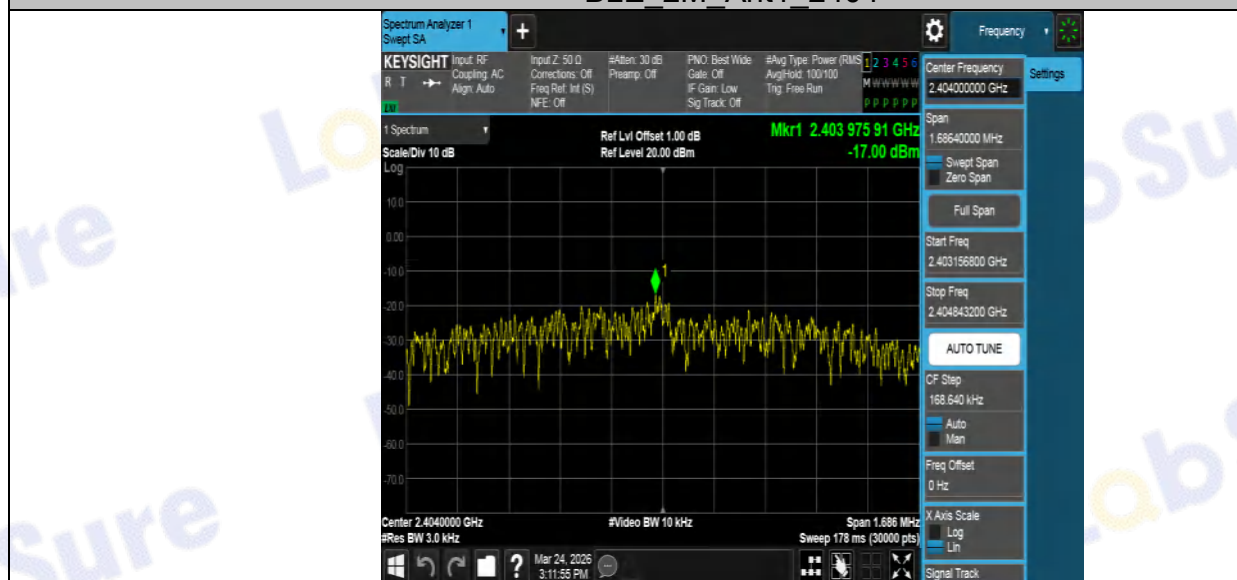
Test Mode	Antenna	Freq (MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.76	≤8.00	PASS
		2440	-13.12	≤8.00	PASS
		2480	-13.44	≤8.00	PASS
BLE_2M	Ant1	2404	-17.00	≤8.00	PASS
		2440	-17.33	≤8.00	PASS
		2478	-17.62	≤8.00	PASS

6.6. Original test data

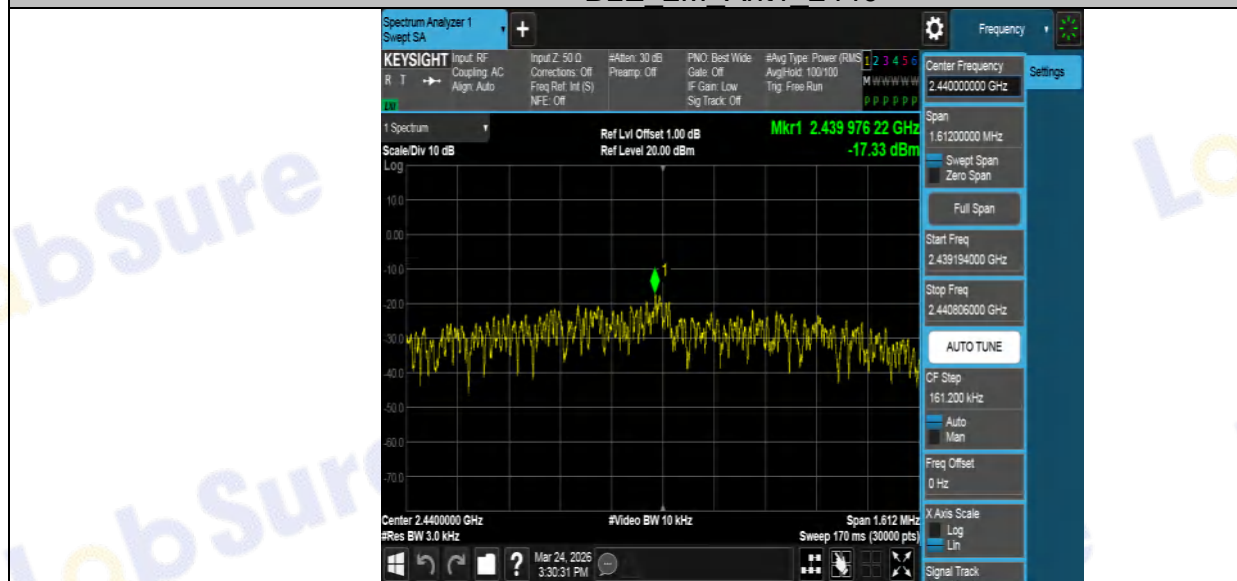




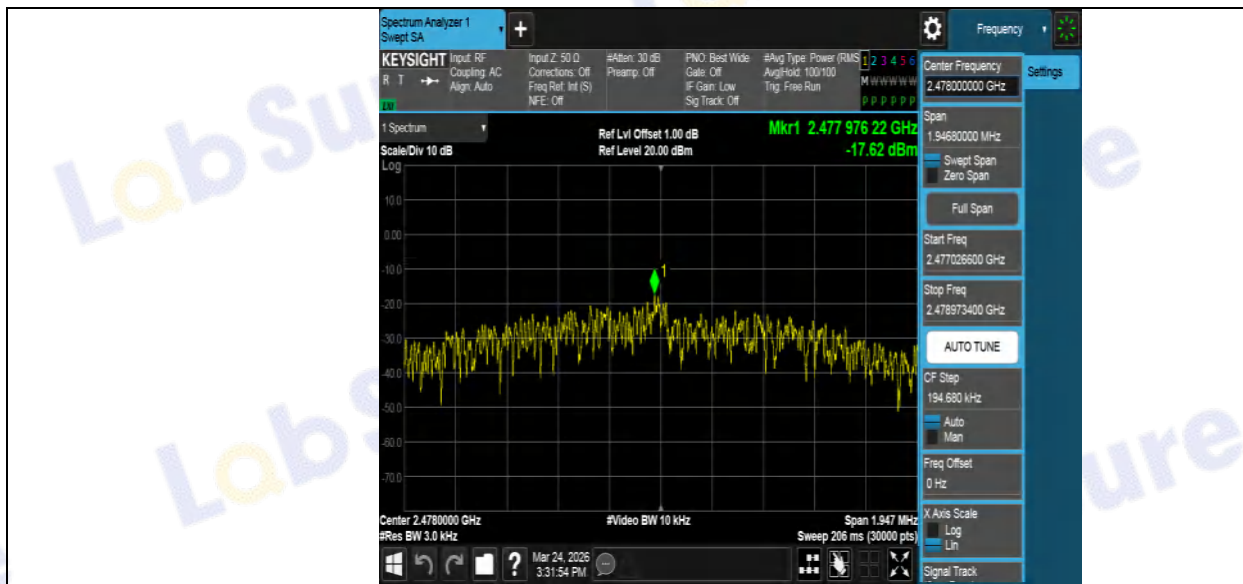
BLE 2M Ant1 2404



BLE 2M Ant1 2440



BLE 2M Ant1 2478



7. Band Edge Compliance (Conducted Method)

7.1. General Information

Test date	Mar. 24, 2026	Test engineer	Luke Li	
Climate condition	Ambient temperature	19.4°C	Relative humidity	58.4%
	Atmospheric pressure	101.6kPa		

7.2. Block diagram of test setup

Same with 4.1

7.3. Limits

FCC Part15 (15.247), Subpart C		
Section	Test Item	Limit
FCC §15.247 (d) RSS-247 Clause 6.6	Conducted Bandedge	In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

7.4. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Set the spectrum analyzer as follows:

RBW: 100 kHz

VBW: 300 kHz

Span: Encompass frequency range to be measured

Number of measurement points: $\geq \text{span/RBW}$

Detector Mode: Peak

Sweep time: auto

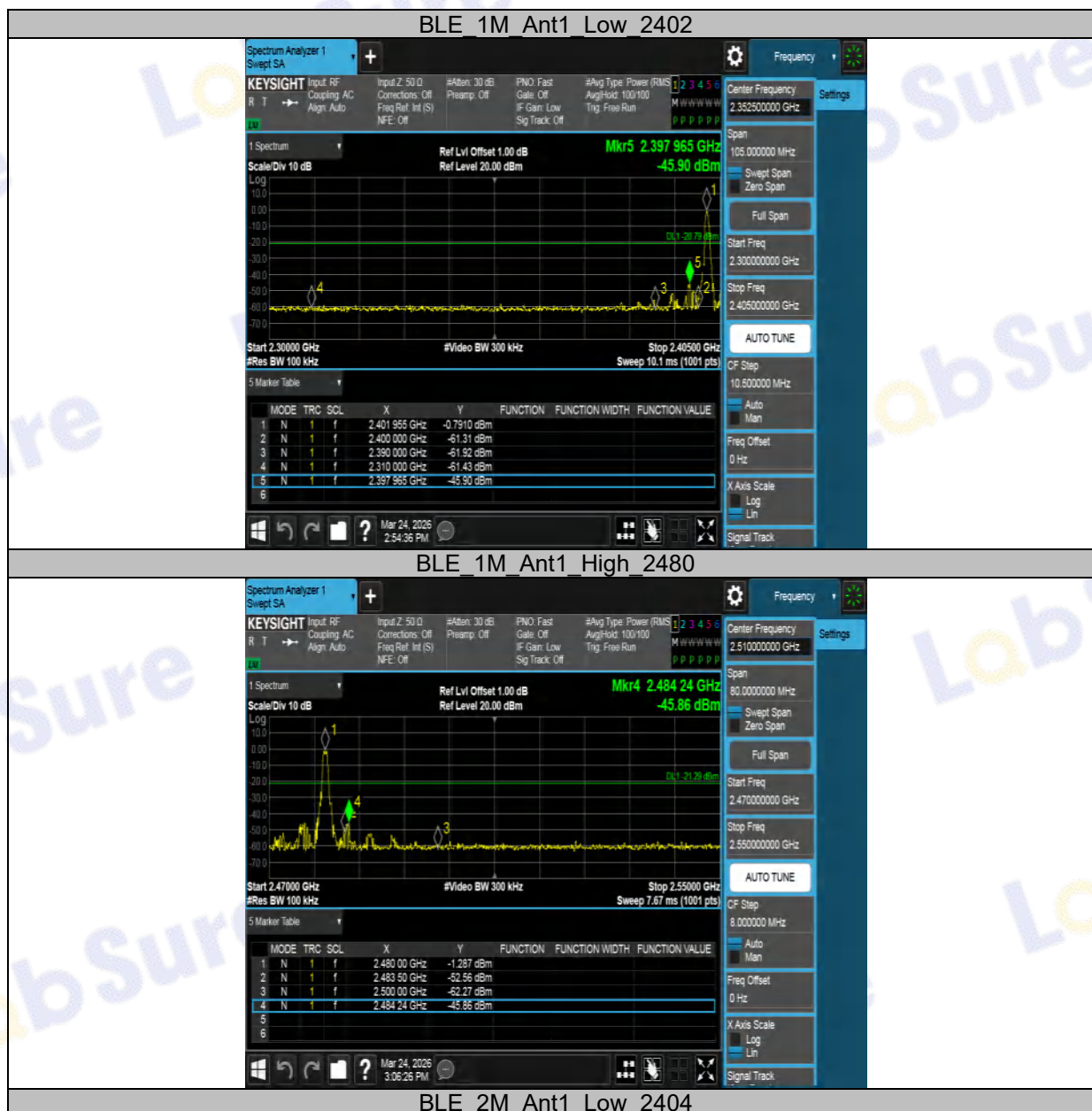
Trace mode: Max hold

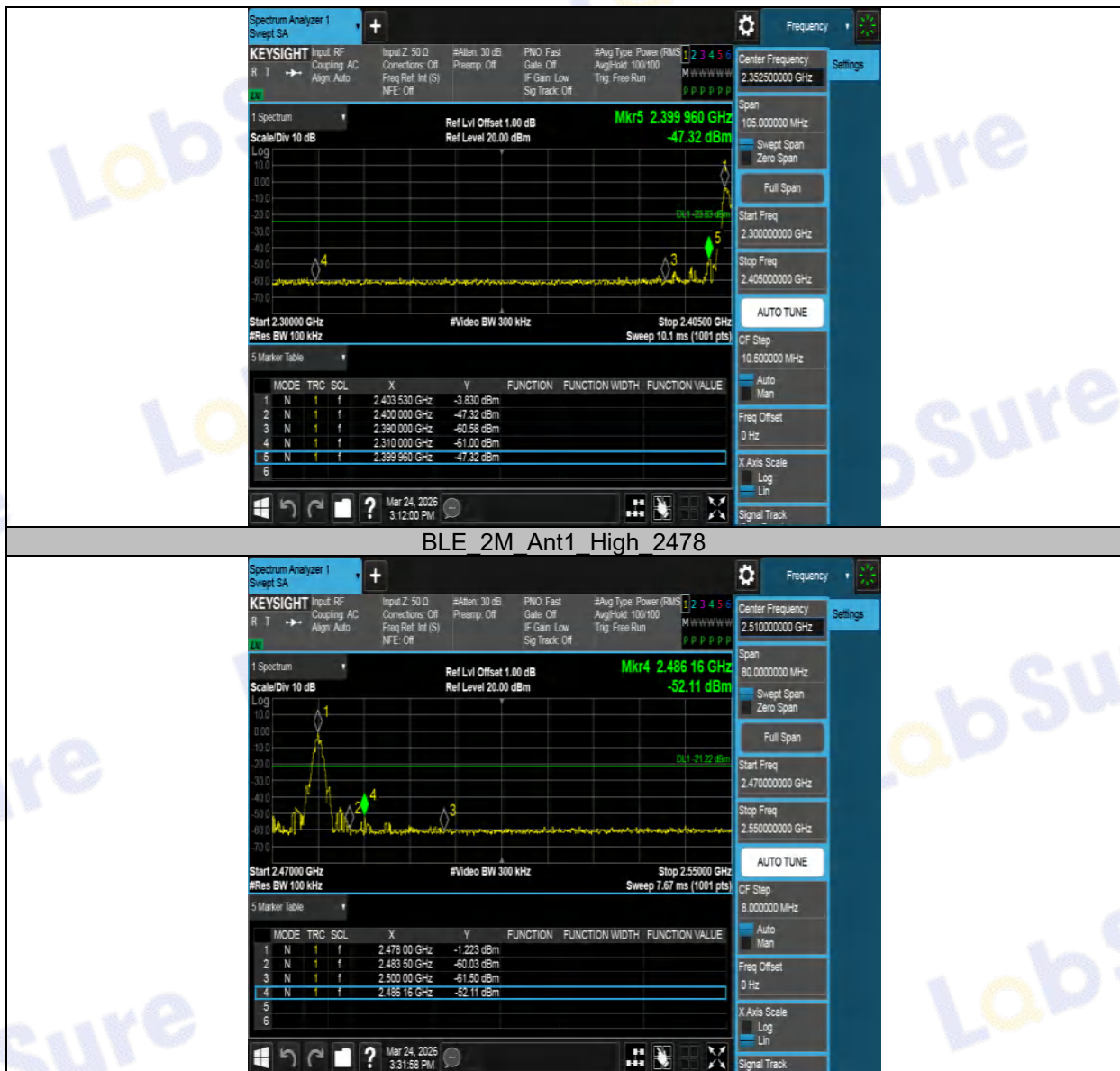
(3) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

7.5. Test result

Test Mode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.79	-45.9	≤-20.79	PASS
		High	2480	-1.29	-45.86	≤-21.29	PASS
BLE_2M	Ant1	Low	2404	-3.83	-47.32	≤-23.83	PASS
		High	2478	-1.22	-52.11	≤-21.22	PASS

7.6. Original test data





8. RF Conducted Spurious Emissions

8.1. General Information

Test date	Mar. 26, 2026	Test engineer	Luke Li	
Climate condition	Ambient temperature	21.9°C	Relative humidity	48.2%
	Atmospheric pressure	101.7kPa		
Test place	EMC Room 1#			

8.2. Block diagram of test setup

Same as section 4.1

8.3. Limits

FCC Part15 (15.247), Subpart C		
Section	Test Item	Limit
FCC Part 15.247 (d) RSS-247 Clause 6.6 RSS-GEN Clause 6.13	Conducted Spurious Emissions	In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

8.4. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Establish a reference level by using the following procedure:

Center frequency	Test frequency
RBW:	100 kHz
VBW:	300 kHz
Span	Wide enough to capture the peak level of the in-band emission
Detector Mode:	Peak

Sweep time: auto
Trace mode Max hold

(3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.

(4) Set the spectrum analyzer as follows:

RBW: 100 kHz
VBW: 300 kHz
Span Encompass frequency range to be measured
Number of measurement points $\geq \text{span/RBW}$
Detector Mode: Peak
Sweep time: auto
Trace mode Max hold

(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

(6)

Note: The conducted spurious emissions test has compensated for the maximum line loss measurement, and the recorded data represent the worst-case scenario.

8.5. Test result

Test Mode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.41	-1.41	---	PASS
			30~1000	-1.41	-66.17	≤ -21.41	PASS
			1000~26500	-1.41	-54.85	≤ -21.41	PASS
		2440	Reference	-2.45	-2.45	---	PASS
			30~1000	-2.45	-65.05	≤ -22.45	PASS
			1000~26500	-2.45	-52.31	≤ -22.45	PASS
		2480	Reference	-1.69	-1.69	---	PASS
			30~1000	-1.69	-65.89	≤ -21.69	PASS
			1000~26500	-1.69	-51.57	≤ -21.69	PASS
BLE_2M	Ant1	2404	Reference	-1.12	-1.12	---	PASS
			30~1000	-1.12	-66.46	≤ -21.12	PASS
			1000~26500	-1.12	-55.79	≤ -21.12	PASS
		2440	Reference	-1.14	-1.14	---	PASS
			30~1000	-1.14	-65.53	≤ -21.14	PASS
			1000~26500	-1.14	-55.88	≤ -21.14	PASS
		2478	Reference	-2.90	-2.90	---	PASS
			30~1000	-2.90	-65.71	≤ -22.90	PASS
			1000~26500	-2.90	-55.87	≤ -22.90	PASS

8.6. Original test data





BLE 1M Ant1 2440 0~Reference



BLE 1M Ant1 2440 30~1000



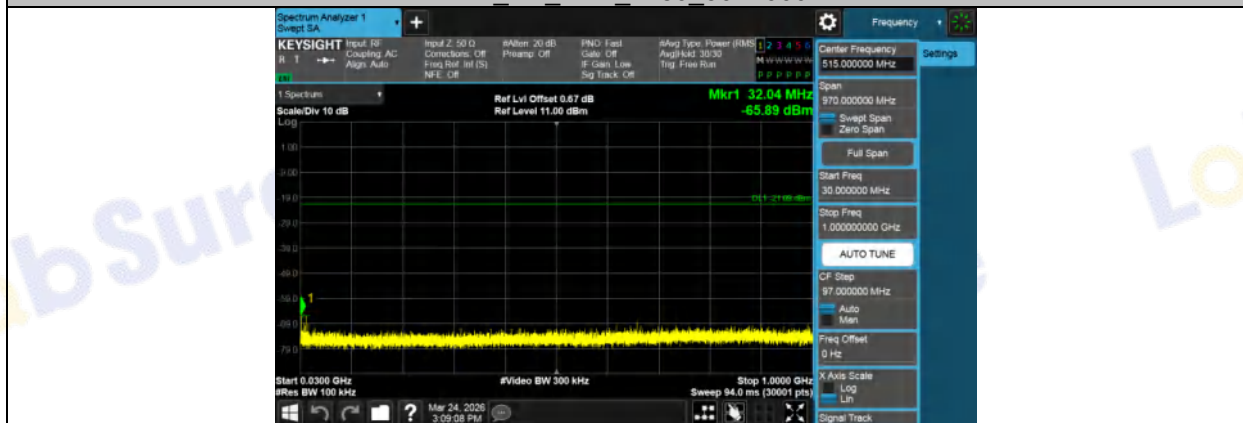
BLE 1M Ant1 2440 1000~26500



BLE 1M Ant1 2480 0~Reference



BLE 1M Ant1 2480 30~1000



BLE 1M Ant1 2480 1000~26500



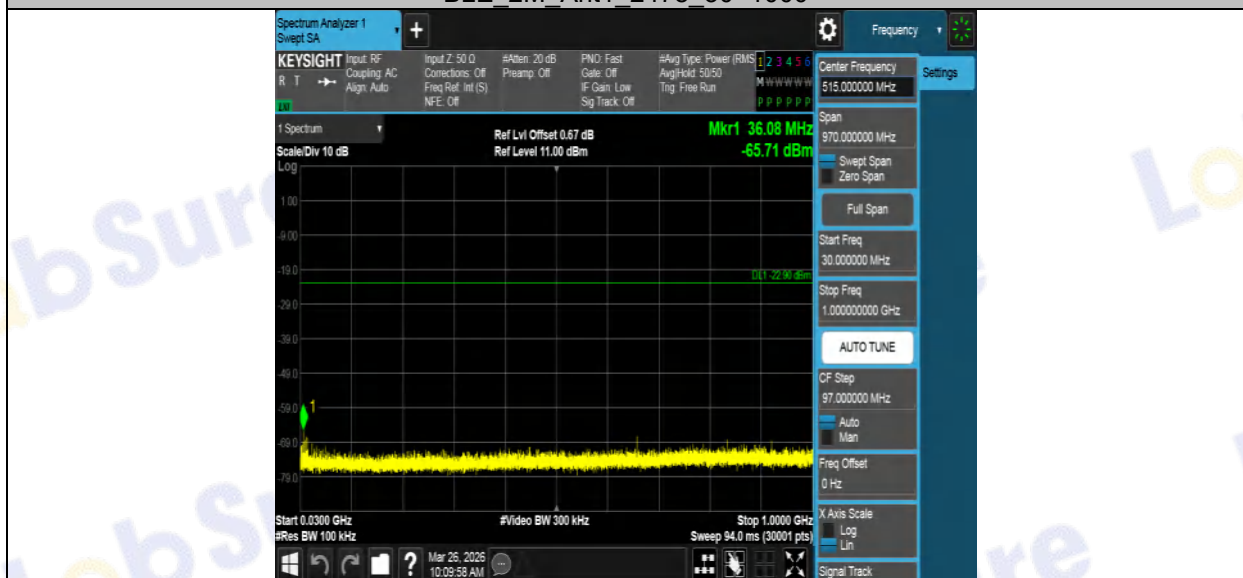




BLE 2M Ant1 2478 0~Reference



BLE 2M Ant1 2478 30~1000



BLE 2M Ant1 2478 1000~26500



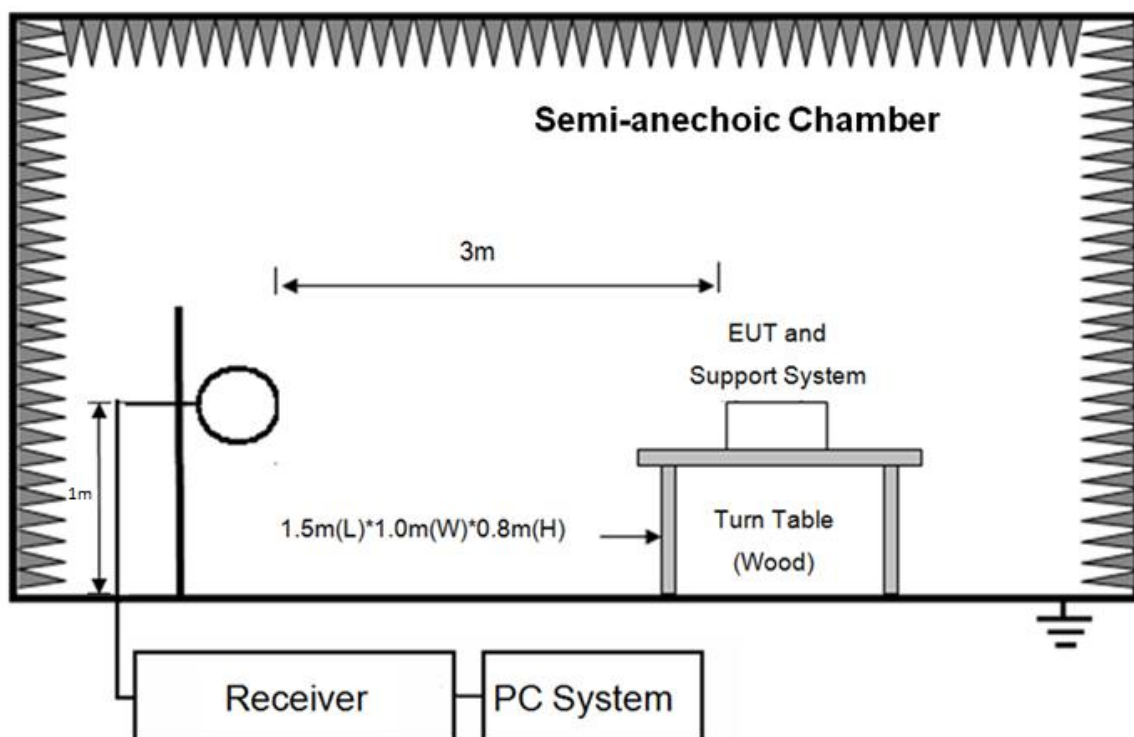
9. Radiated Emission

9.1. General Information

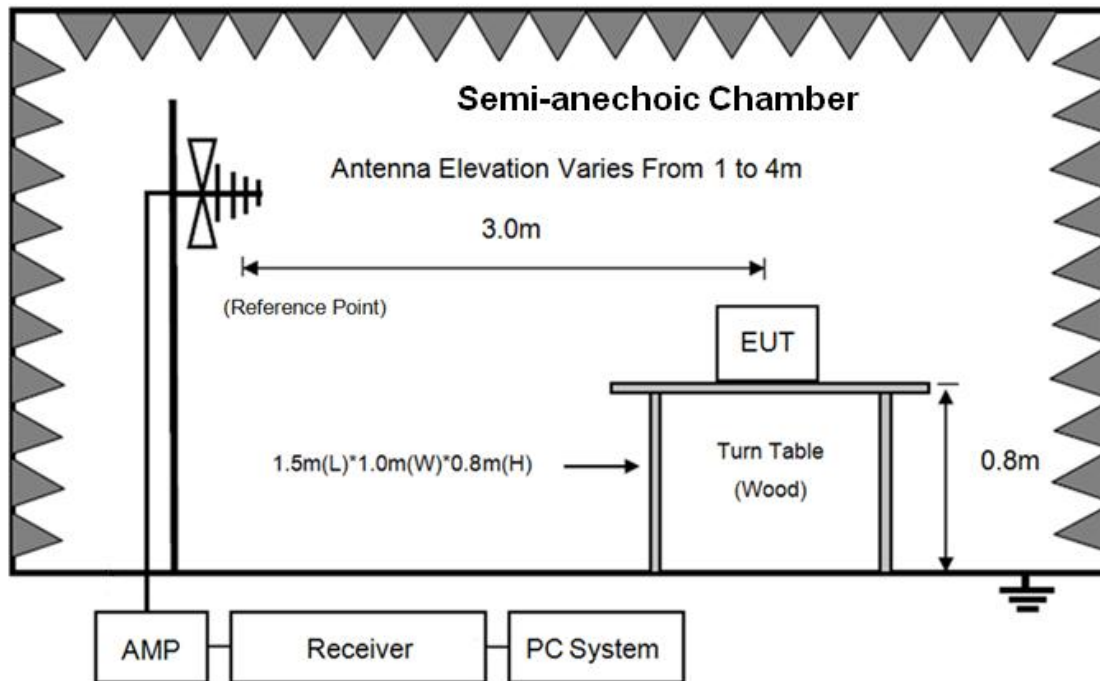
Test date	Mar. 25, 2026 ~ Mar. 26, 2026	Test engineer	Jimmy Qu	
Climate condition	Ambient temperature	22.3°C	Relative humidity	55.1%
	Atmospheric pressure	101.3kPa		
Test place	EMC Room 1#			

9.2. Block diagram of test setup

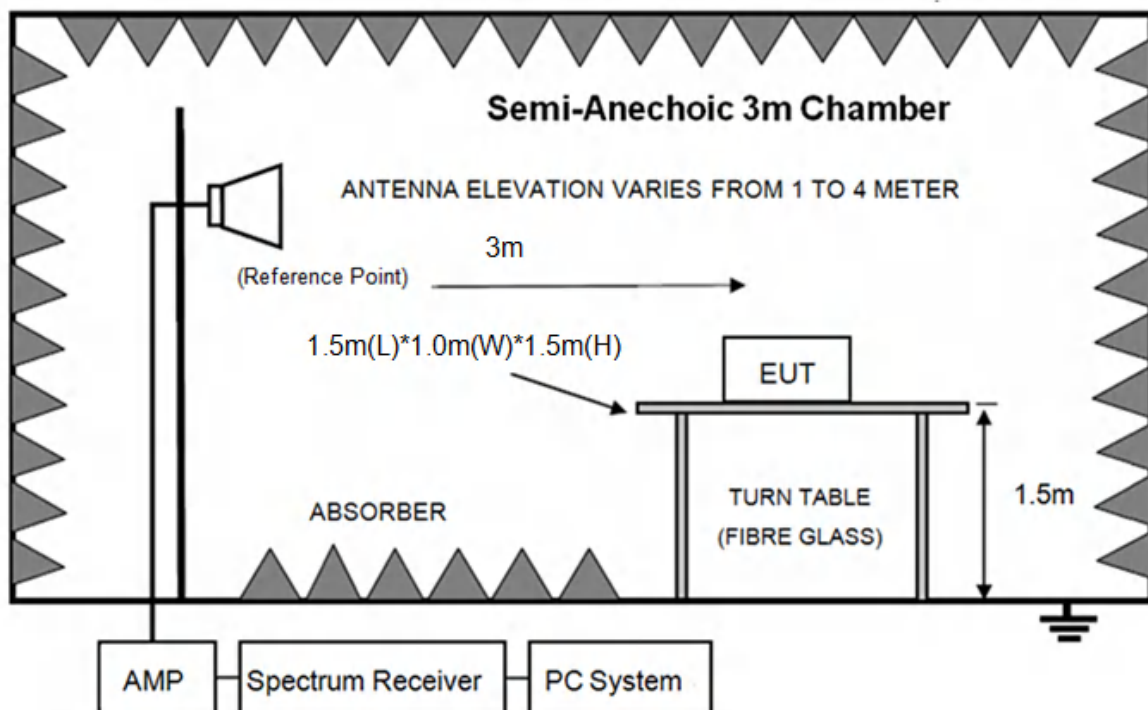
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

9.3. Limit

8.2.1 FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	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
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&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	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

RSS-GEN Clause 8.10 Table 7 – Restricted frequency bands*

MHz	MHz	MHz	GHz
0.090–0.110	13.36–13.41	608–614	8.025–8.5
0.495–0.505	16.42–16.423	960–1427	9.0–9.2
2.1735–2.1905	16.69475–16.69525	1435–1626.5	9.3–9.5
4.125–4.128	16.80425–16.80475	1645.5–1646.5	10.6–12.7
4.17725–4.17775	25.5–25.67	1660–1710	13.25–13.4
4.20725–4.20775	37.5–38.25	1718.8–1722.2	14.47–14.5
5.677–5.683	73–74.6	2200–2300	15.35–16.2
6.215–6.218	74.8–75.2	2310–2390	17.7–21.4
6.26775–6.26825	108–138	2483.5–2500	22.01–23.12
6.31175–6.31225	149.9–150.05	2655–2900	23.6–24.0
8.291–8.294	156.52475–156.52525	3260–3267	31.2–31.8
8.362–8.366	156.7–156.9	3332–3339	36.43–36.5
8.37625–8.38675	162.0125–167.17	3345.8–3358	*Above 38.6
8.41425–8.41475	167.72–173.2	3500–4400	--
12.29–12.293	240–285	4500–5150	--
12.51975–12.52025	322–335.4	5350–5460	--
12.57675–12.57725	399.9–410	7250–7750	--

* Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

8.2.2 FCC 15.209 & RSS-GEN Clause 8.9 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT		
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$	Magnetic field strength (H-Field)($\mu\text{V} / \text{m}$)
0.009 ~ 0.490	300	$2400/\text{F}(\text{kHz})$	$67.6-20\log(\text{F})$	$6.37/\text{F}$ (F in kHz)
0.490 ~ 1.705	30	$24000/\text{F}(\text{kHz})$	$87.6-20\log(\text{F})$	$63.7/\text{F}$ (F in kHz)
1.705 ~ 30.0	30	30	29.54	0.08
30 ~ 88	3	100	40.0	
88 ~ 216	3	150	43.5	
216 ~ 960	3	200	46.0	
960 ~ 1000	3	500	54.0	
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)		

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40\log(30\text{m}/3\text{m})$$

8.2.3 Limit for this EUT

All the emissions appearing within 15.205 & RSS-GEN restricted frequency bands shall not exceed the limits shown in 15.209 & RSS-GEN, all the other emissions shall be at least 20dB below the fundamental emissions or comply with 15.209 & RSS-GEN limits.

9.4. Test Procedure

- (1) EUT was placed on a non-metallic table, 10 mm above the ground plane inside a semi-anechoic chamber for below 1 GHz and 150 cm above the ground plane inside a semi-anechoic chamber for above 1 GHz.
- (2) Test antenna was located 3 m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9 kHz - 30 MHz	Active Loop antenna	3 m
30 MHz - 1 GHz	Trilog Broadband Antenna	3 m
1 GHz - 18 GHz	Double Ridged Horn Antenna (1 GHz - 18 GHz)	3 m

18 GHz - 40 GHz	Horn Antenna (18 GHz - 40 GHz)	3 m
-----------------	-----------------------------------	-----

According ANSI C63.10:2020+CORR.1:2023 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also is positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. For measurement above 30 MHz, the Trilog Broadband Antenna or Horn Antenna was located 3 m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1 m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so below final test was performed with frequency range from 30 MHz to 18 GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 on Radiated Emission test.

(5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

(7) For emissions above 1 GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 clause 4.1.4.2.2 procedure for average measure.

(8) X axis, Y axis, Z axis are tested, and worse setup X axis is reported.

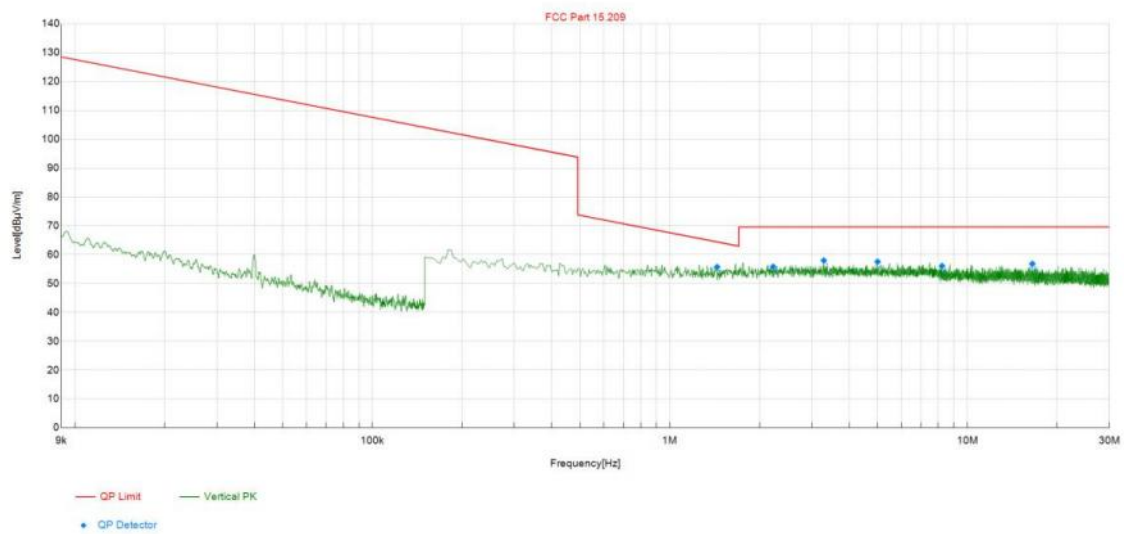
9.5. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limit.

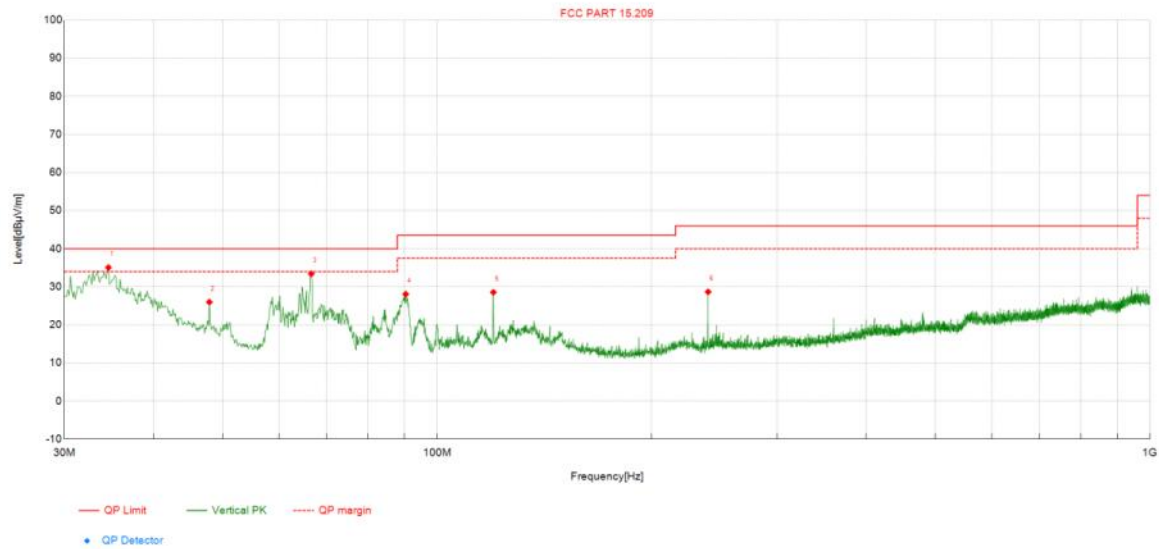
Note1: For emissions 9KHz to 30 MHz and 18 GHz to 26 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions 9KHz to 30 MHz and 18 GHz to 26 GHz, the final test was only performed with EUT working in the worst case 1Mbps, Tx 2402 MHz mode.

Note2: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

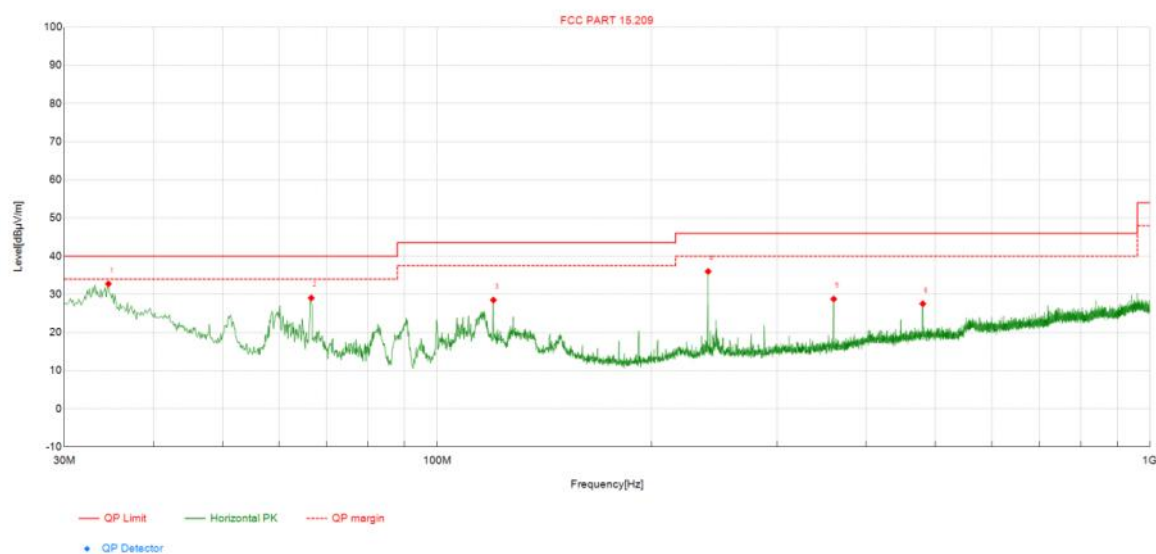
Radiated Emission test (9Khz-30MHz)

NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin[dB]	Pol	Verdict
1	1.44	39.26	16.49	55.75	64.43	8.68	V	PASS
2	2.22	39.29	16.54	55.83	69.54	13.71	V	PASS
3	3.29	39.41	18.59	58.00	69.54	11.54	V	PASS
4	4.99	39.43	18.13	57.56	69.54	11.98	V	PASS
5	8.22	39.35	16.73	56.08	69.54	13.46	V	PASS
6	16.53	39.34	17.51	56.85	69.54	12.69	V	PASS

Radiated Emission test (30MHz-1GHz)



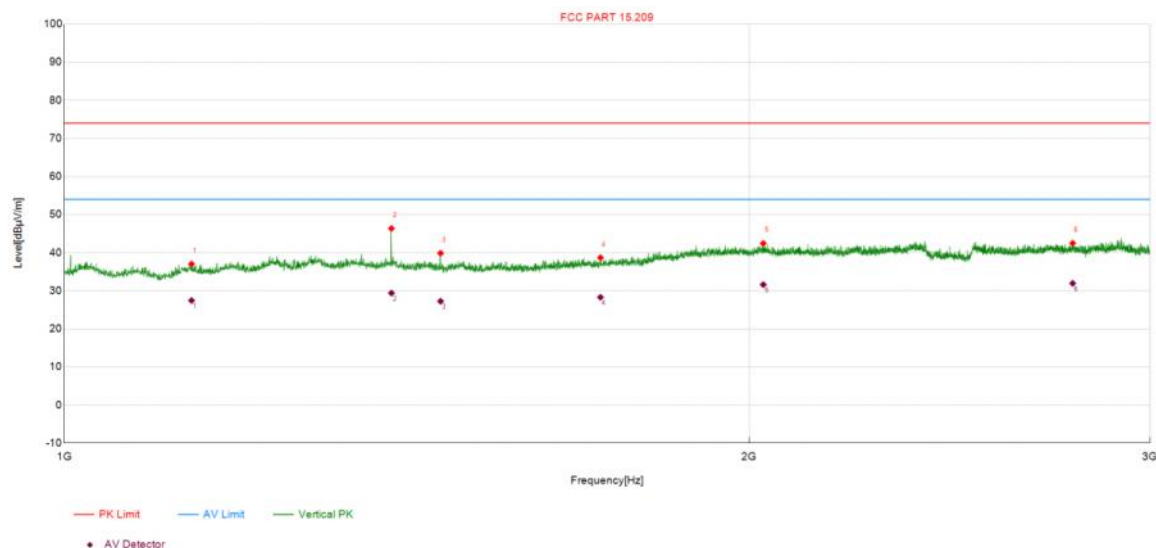
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin[dB]	Pol	Verdict
1	34.61	-14.50	49.58	35.08	40.00	4.92	V	PASS
2	47.95	-20.74	46.74	26.00	40.00	14.00	V	PASS
3	66.62	-27.01	60.41	33.40	40.00	6.60	V	PASS
4	90.38	-26.41	54.49	28.08	43.50	15.42	V	PASS
5	119.97	-23.13	51.69	28.56	43.50	14.94	V	PASS
6	240.01	-22.05	50.72	28.67	46.00	17.33	V	PASS



NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Pol	Verdict
1	34.61	-14.50	47.25	32.75	40.00	7.25	H	PASS
2	66.62	-27.01	56.06	29.05	40.00	10.95	H	PASS
3	119.97	-23.13	51.63	28.50	43.50	15.00	H	PASS
4	240.01	-22.05	58.04	35.99	46.00	10.01	H	PASS
5	360.04	-18.80	47.57	28.77	46.00	17.23	H	PASS
6	480.08	-15.56	43.07	27.51	46.00	18.49	H	PASS

Radiated Emission test (1GHz-3GHz)

Mode	Test channel	Ant. Pol.
BLE-1Mbps	2402MHz	Vertical

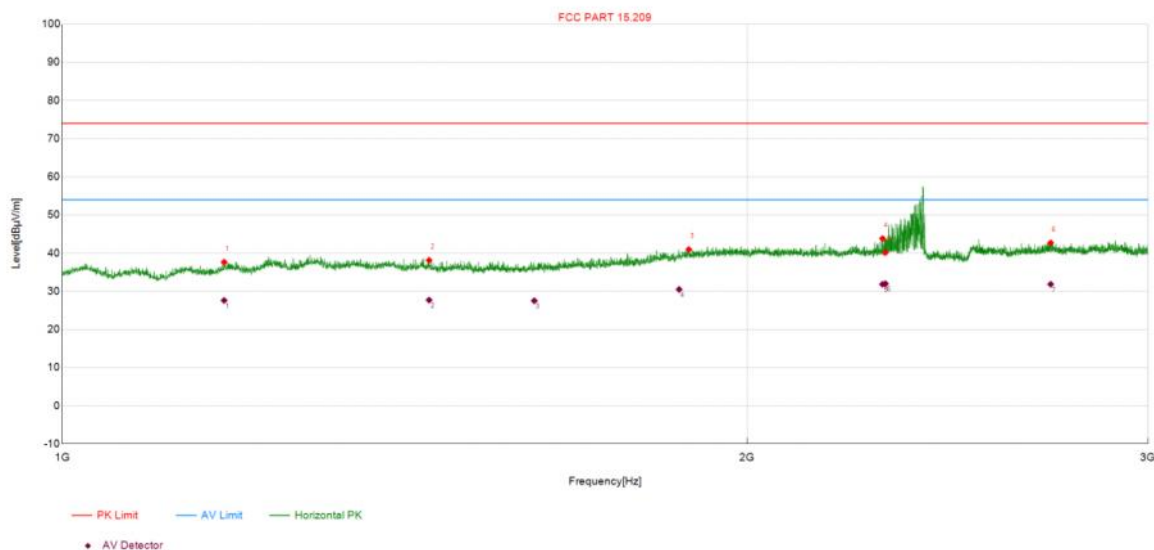
**Suspected Data List**

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1137.50	58.44	37.03	-21.41	74.00	36.97	150	2	PK	V	PASS
2	1392.50	65.79	46.37	-19.42	74.00	27.63	150	268	PK	V	PASS
3	1463.50	59.88	39.87	-20.01	74.00	34.13	150	329	PK	V	PASS
4	1720.50	57.70	38.68	-19.02	74.00	35.32	150	77	PK	V	PASS
5	2028.50	57.91	42.44	-15.47	74.00	31.56	150	258	PK	V	PASS
6	2774.25	56.36	42.49	-13.87	74.00	31.51	150	138	PK	V	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	1137.50	-21.41	48.87	27.46	54.00	26.54	V	PASS
2	1392.50	-19.42	48.83	29.41	54.00	24.59	V	PASS
3	1463.50	-20.01	47.28	27.27	54.00	26.73	V	PASS
4	1720.50	-19.02	47.32	28.30	54.00	25.70	V	PASS
5	2028.50	-15.47	47.09	31.62	54.00	22.38	V	PASS
6	2774.25	-13.87	45.83	31.96	54.00	22.04	V	PASS

Mode	Test channel	Ant. Pol.
BLE-1Mbps	2402MHz	Horizontal



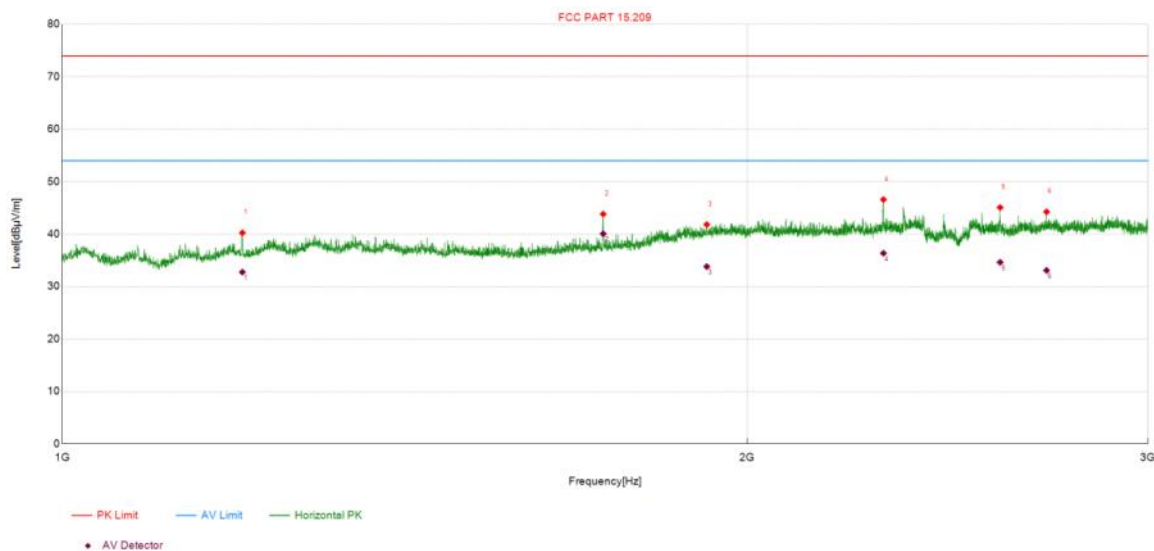
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1178.00	58.36	37.65	-20.71	74.00	36.35	150	290	PK	H	PASS
2	1449.50	58.09	38.13	-19.96	74.00	35.87	150	240	PK	H	PASS
3	1885.00	57.42	40.97	-16.45	74.00	33.03	150	62	PK	H	PASS
4	2293.25	58.59	43.83	-14.76	74.00	30.17	150	250	PK	H	PASS
5	2300.00	54.89	40.16	-14.73	74.00	33.84	150	348	PK	H	PASS
6	2718.50	56.51	42.68	-13.83	74.00	31.32	150	359	PK	H	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	1178.00	-20.71	48.32	27.61	54.00	26.39	H	PASS
2	1449.50	-19.96	47.67	27.71	54.00	26.29	H	PASS
3	1866.75	-16.74	47.23	30.49	54.00	23.51	H	PASS
4	2293.25	-14.76	46.61	31.85	54.00	22.15	H	PASS
5	2300.00	-14.73	46.72	31.99	54.00	22.01	H	PASS
6	2718.50	-13.83	45.68	31.85	54.00	22.15	H	PASS

Mode	Test channel	Ant. Pol.
BLE-1Mbps	2440MHz	Vertical



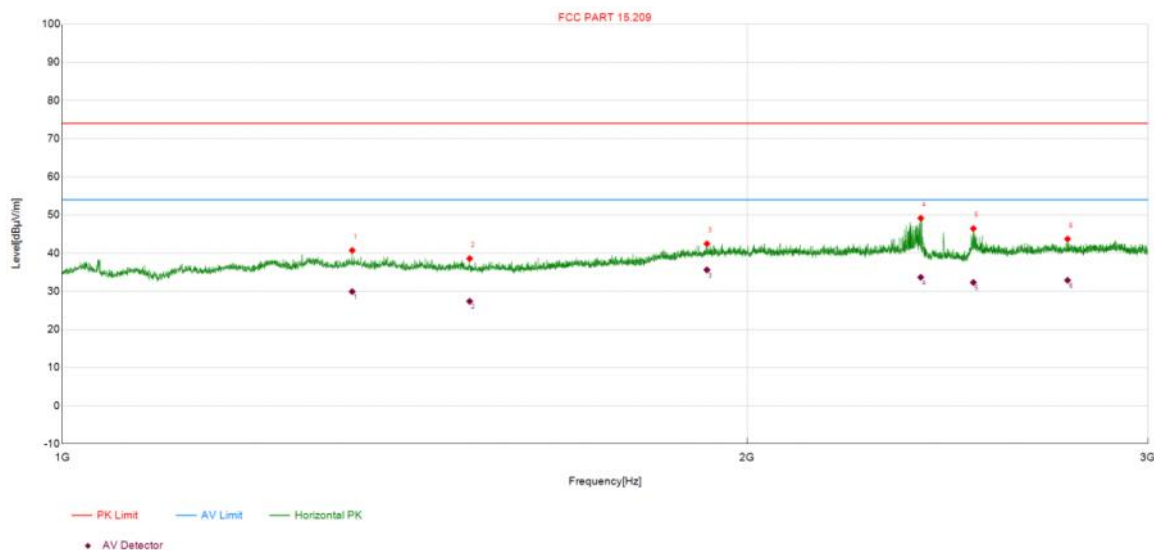
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1200.00	60.71	40.25	-20.46	74.00	33.75	150	345	PK	V	PASS
2	1728.75	62.77	43.82	-18.95	74.00	30.18	150	228	PK	V	PASS
3	1919.75	57.87	41.82	-16.05	74.00	32.18	150	110	PK	V	PASS
4	2295.50	61.33	46.58	-14.75	74.00	27.42	150	317	PK	V	PASS
5	2583.00	59.74	45.07	-14.67	74.00	28.93	150	50	PK	V	PASS
6	2707.25	58.10	44.25	-13.85	74.00	29.75	150	3	PK	V	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	1200.00	-20.46	53.22	32.76	54.00	21.24	V	PASS
2	1728.75	-18.95	59.02	40.07	54.00	13.93	V	PASS
3	1919.75	-16.05	49.86	33.81	54.00	20.19	V	PASS
4	2295.50	-14.75	51.10	36.35	54.00	17.65	V	PASS
5	2583.00	-14.67	49.29	34.62	54.00	19.38	V	PASS
6	2707.25	-13.85	46.93	33.08	54.00	20.92	V	PASS

Mode	Test channel	Ant. Pol.
BLE-1Mbps	2440MHz	Horizontal



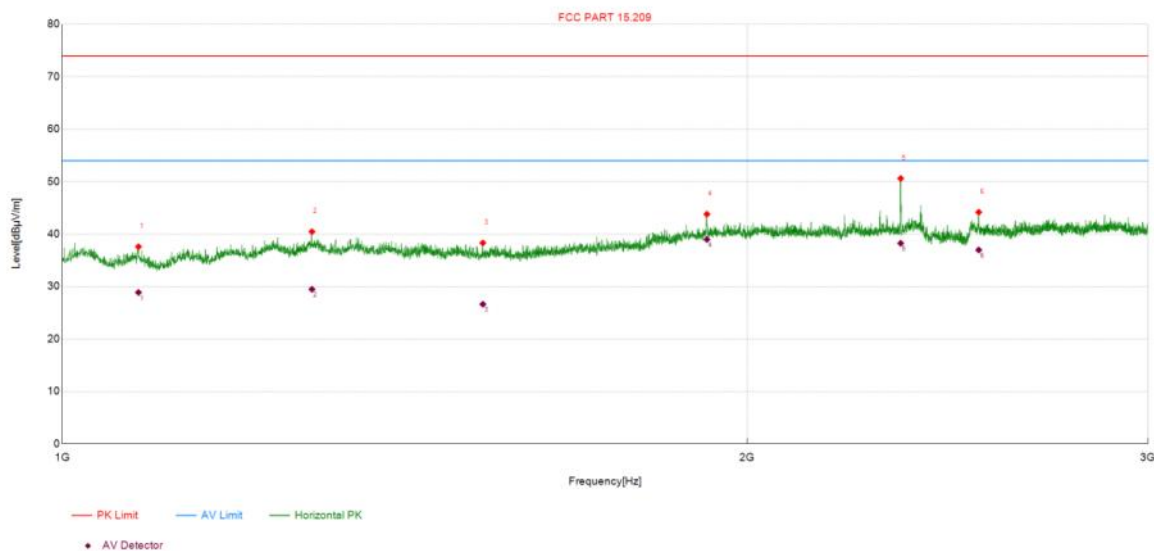
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1341.00	59.83	40.73	-19.10	74.00	33.27	150	357	PK	H	PASS
2	1510.25	58.76	38.58	-20.18	74.00	35.42	150	13	PK	H	PASS
3	1920.00	58.50	42.45	-16.05	74.00	31.55	150	209	PK	H	PASS
4	2383.75	63.29	49.18	-14.11	74.00	24.82	150	209	PK	H	PASS
5	2514.00	60.64	46.46	-14.18	74.00	27.54	150	209	PK	H	PASS
6	2765.50	57.54	43.70	-13.84	74.00	30.30	150	1	PK	H	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	1341.00	-19.10	49.02	29.92	54.00	24.08	H	PASS
2	1510.25	-20.18	47.56	27.38	54.00	26.62	H	PASS
3	1920.00	-16.05	51.67	35.62	54.00	18.38	H	PASS
4	2383.75	-14.11	47.79	33.68	54.00	20.32	H	PASS
5	2514.00	-14.18	46.51	32.33	54.00	21.67	H	PASS
6	2765.50	-13.84	46.73	32.89	54.00	21.11	H	PASS

Mode	Test channel	Ant. Pol.
BLE-1Mbps	2480MHz	Vertical



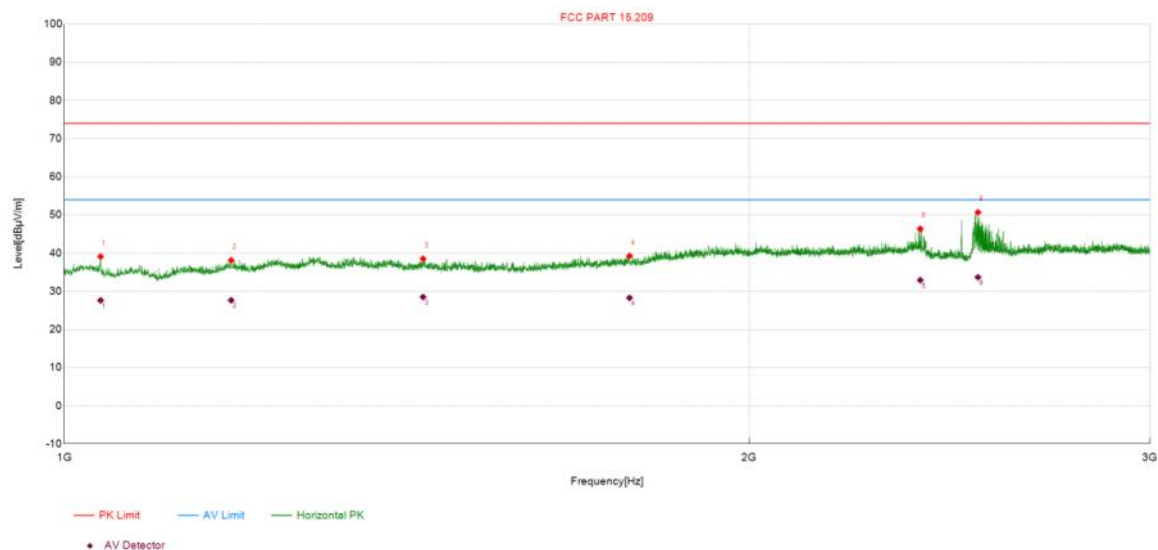
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1080.25	60.03	37.59	-22.44	74.00	36.41	150	348	PK	V	PASS
2	1287.50	59.36	40.46	-18.90	74.00	33.54	150	208	PK	V	PASS
3	1530.50	58.60	38.31	-20.29	74.00	35.69	150	278	PK	V	PASS
4	1920.00	59.85	43.80	-16.05	74.00	30.20	150	60	PK	V	PASS
5	2335.75	65.15	50.61	-14.54	74.00	23.39	150	150	PK	V	PASS
6	2527.75	58.47	44.17	-14.30	74.00	29.83	150	150	PK	V	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	1080.25	-22.44	51.32	28.88	54.00	25.12	V	PASS
2	1287.50	-18.90	48.38	29.48	54.00	24.52	V	PASS
3	1530.50	-20.29	46.92	26.63	54.00	27.37	V	PASS
4	1920.00	-16.05	55.02	38.97	54.00	15.03	V	PASS
5	2335.75	-14.54	52.79	38.25	54.00	15.75	V	PASS
6	2527.75	-14.30	51.27	36.97	54.00	17.03	V	PASS

Mode	Test channel	Ant. Pol.
BLE-1Mbps	2480MHz	Horizontal



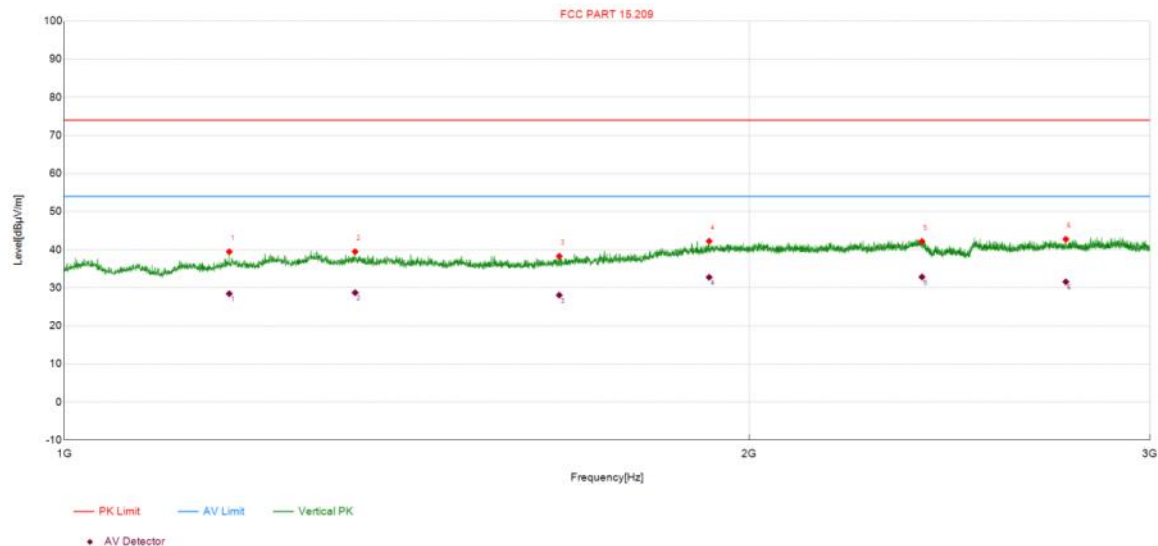
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1037.50	61.00	39.11	-21.89	74.00	34.89	150	358	PK	H	PASS
2	1184.00	58.77	38.13	-20.64	74.00	35.87	150	161	PK	H	PASS
3	1437.75	58.38	38.54	-19.84	74.00	35.46	150	310	PK	H	PASS
4	1771.75	57.80	39.27	-18.53	74.00	34.73	150	339	PK	H	PASS
5	2377.75	60.56	46.38	-14.18	74.00	27.62	150	211	PK	H	PASS
6	2520.75	64.92	50.68	-14.24	74.00	23.32	150	211	PK	H	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	1037.50	-21.89	49.52	27.63	54.00	26.37	H	PASS
2	1184.00	-20.64	48.30	27.66	54.00	26.34	H	PASS
3	1437.75	-19.84	48.35	28.51	54.00	25.49	H	PASS
4	1771.75	-18.53	46.81	28.28	54.00	25.72	H	PASS
5	2377.75	-14.18	47.11	32.93	54.00	21.07	H	PASS
6	2520.75	-14.24	47.94	33.70	54.00	20.30	H	PASS

Mode	Test channel	Ant. Pol.
BLE-2Mbps	2404MHz	Vertical



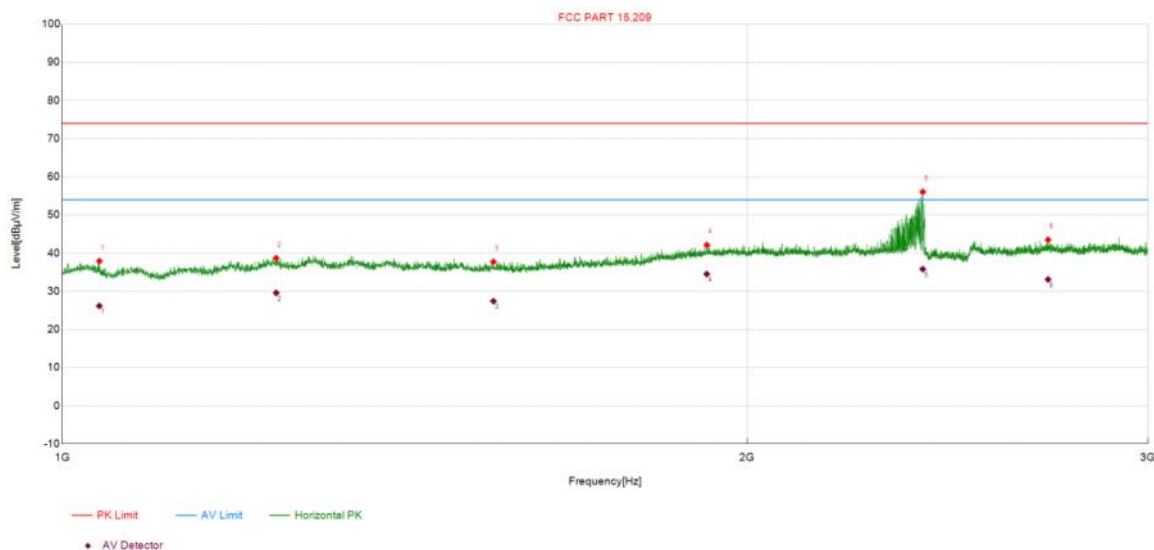
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1181.75	60.12	39.46	-20.66	74.00	34.54	150	0	PK	V	PASS
2	1342.25	58.58	39.48	-19.10	74.00	34.52	150	359	PK	V	PASS
3	1650.25	58.06	38.31	-19.75	74.00	35.69	150	309	PK	V	PASS
4	1920.50	58.30	42.25	-16.05	74.00	31.75	150	31	PK	V	PASS
5	2381.75	56.34	42.21	-14.13	74.00	31.79	150	359	PK	V	PASS
6	2755.00	56.55	42.75	-13.80	74.00	31.25	150	0	PK	V	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	1181.75	-20.66	49.10	28.44	54.00	25.56	V	PASS
2	1342.25	-19.10	47.82	28.72	54.00	25.28	V	PASS
3	1650.25	-19.75	47.83	28.08	54.00	25.92	V	PASS
4	1920.50	-16.05	48.81	32.76	54.00	21.24	V	PASS
5	2381.75	-14.13	46.98	32.85	54.00	21.15	V	PASS
6	2755.00	-13.80	45.36	31.56	54.00	22.44	V	PASS

Mode	Test channel	Ant. Pol.
BLE-2Mbps	2404MHz	Horizontal



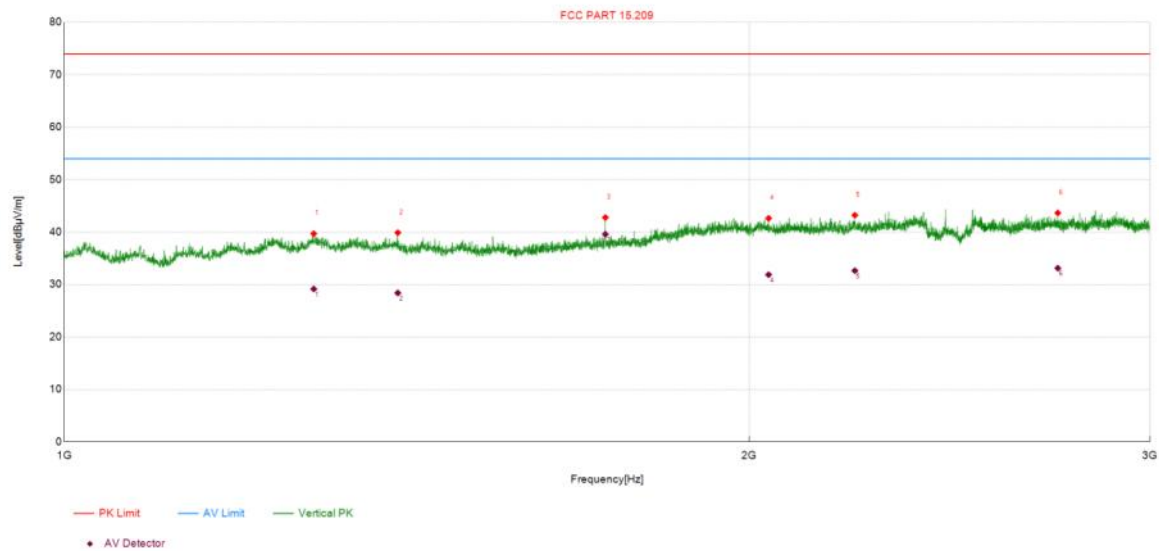
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1038.25	59.83	37.92	-21.91	74.00	36.08	150	112	PK	H	PASS
2	1241.75	58.03	38.70	-19.33	74.00	35.30	150	199	PK	H	PASS
3	1547.00	58.12	37.73	-20.39	74.00	36.27	150	0	PK	H	PASS
4	1919.75	58.20	42.15	-16.05	74.00	31.85	150	199	PK	H	PASS
5	2388.50	70.13	56.07	-14.06	74.00	17.93	150	210	PK	H	PASS
6	2711.50	57.34	43.50	-13.84	74.00	30.50	150	240	PK	H	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	1038.25	-21.91	48.08	26.17	54.00	27.83	H	PASS
2	1241.75	-19.33	48.91	29.58	54.00	24.42	H	PASS
3	1547.00	-20.39	47.81	27.42	54.00	26.58	H	PASS
4	1919.75	-16.05	50.57	34.52	54.00	19.48	H	PASS
5	2388.50	-14.06	49.88	35.82	54.00	18.18	H	PASS
6	2711.50	-13.84	46.95	33.11	54.00	20.89	H	PASS

Mode	Test channel	Ant. Pol.
BLE-2Mbps	2440MHz	Vertical



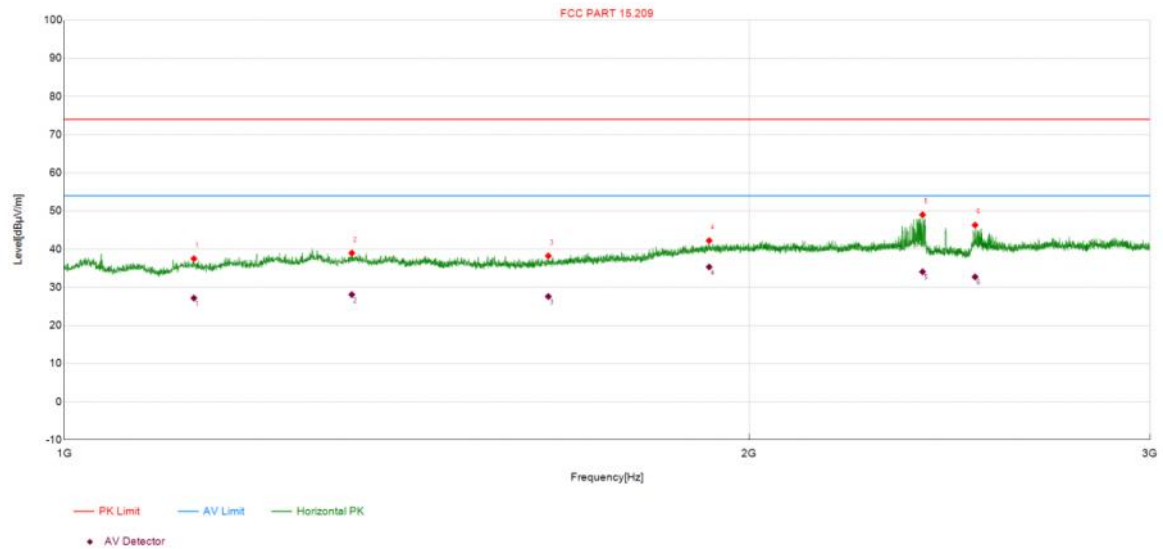
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1287.25	58.60	39.70	-18.90	74.00	34.30	150	260	PK	V	PASS
2	1401.50	59.36	39.89	-19.47	74.00	34.11	150	348	PK	V	PASS
3	1729.00	61.73	42.78	-18.95	74.00	31.22	150	0	PK	V	PASS
4	2039.50	58.10	42.63	-15.47	74.00	31.37	150	21	PK	V	PASS
5	2225.50	58.31	43.22	-15.09	74.00	30.78	150	6	PK	V	PASS
6	2732.75	57.46	43.65	-13.81	74.00	30.35	150	289	PK	V	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	1287.25	-18.90	48.06	29.16	54.00	24.84	V	PASS
2	1401.50	-19.47	47.87	28.40	54.00	25.60	V	PASS
3	1729.00	-18.95	58.54	39.59	54.00	14.41	V	PASS
4	2039.50	-15.47	47.34	31.87	54.00	22.13	V	PASS
5	2225.50	-15.09	47.73	32.64	54.00	21.36	V	PASS
6	2732.75	-13.81	46.93	33.12	54.00	20.88	V	PASS

Mode	Test channel	Ant. Pol.
BLE-2Mbps	2440MHz	Horizontal



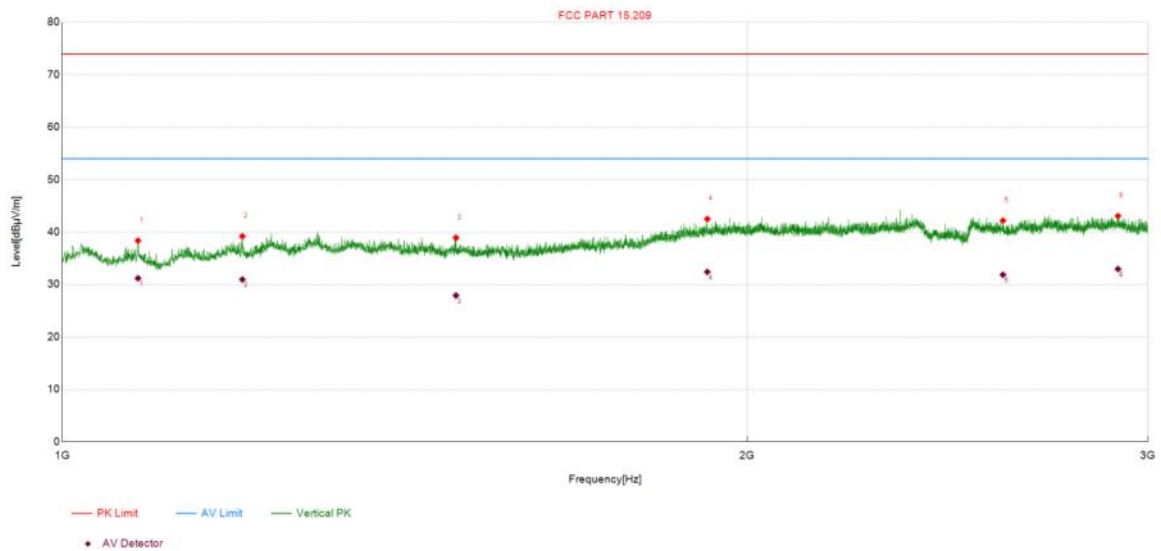
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1140.25	58.83	37.50	-21.33	74.00	36.50	150	210	PK	H	PASS
2	1337.75	58.06	38.99	-19.07	74.00	35.01	150	101	PK	H	PASS
3	1632.00	58.26	38.23	-20.03	74.00	35.77	150	299	PK	H	PASS
4	1920.50	58.29	42.24	-16.05	74.00	31.76	150	201	PK	H	PASS
5	2383.25	63.13	49.01	-14.12	74.00	24.99	150	210	PK	H	PASS
6	2513.25	60.49	46.31	-14.18	74.00	27.69	150	210	PK	H	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	1140.25	-21.33	48.51	27.18	54.00	26.82	H	PASS
2	1337.75	-19.07	47.16	28.09	54.00	25.91	H	PASS
3	1632.00	-20.03	47.63	27.60	54.00	26.40	H	PASS
4	1920.50	-16.05	51.39	35.34	54.00	18.66	H	PASS
5	2383.25	-14.12	48.19	34.07	54.00	19.93	H	PASS
6	2513.25	-14.18	46.91	32.73	54.00	21.27	H	PASS

Mode	Test channel	Ant. Pol.
BLE-2Mbps	2478MHz	Vertical



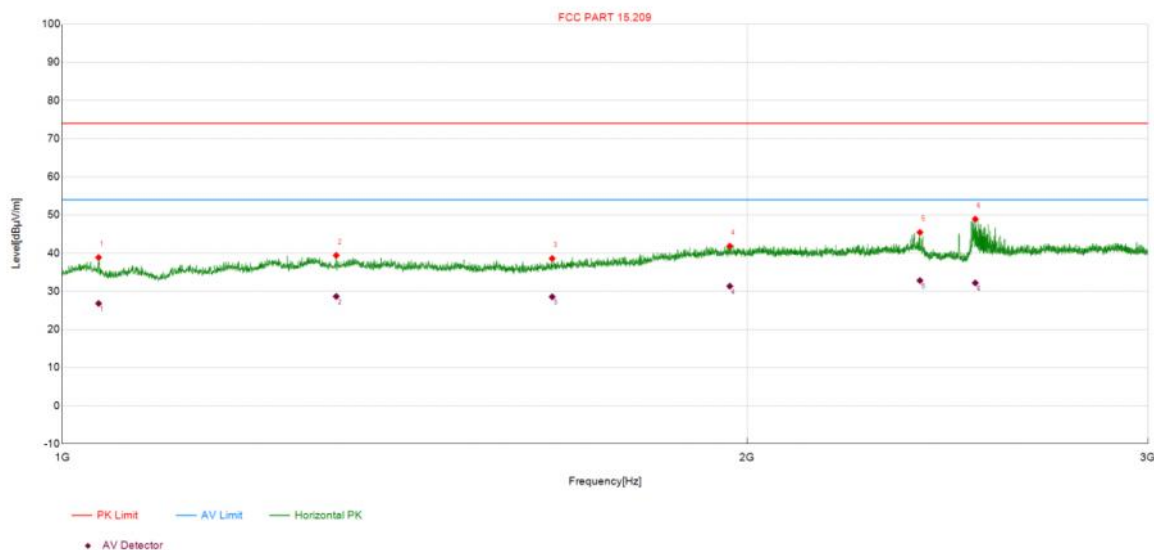
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1079.75	60.81	38.37	-22.44	74.00	35.63	150	354	PK	V	PASS
2	1200.00	59.66	39.20	-20.46	74.00	34.80	150	222	PK	V	PASS
3	1489.50	59.01	38.92	-20.09	74.00	35.08	150	192	PK	V	PASS
4	1920.75	58.56	42.51	-16.05	74.00	31.49	150	162	PK	V	PASS
5	2590.50	56.89	42.18	-14.71	74.00	31.82	150	360	PK	V	PASS
6	2910.25	56.32	43.07	-13.25	74.00	30.93	150	359	PK	V	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	1079.75	-22.44	53.64	31.20	54.00	22.80	V	PASS
2	1200.00	-20.46	51.42	30.96	54.00	23.04	V	PASS
3	1489.50	-20.09	48.01	27.92	54.00	26.08	V	PASS
4	1920.75	-16.05	48.46	32.41	54.00	21.59	V	PASS
5	2590.50	-14.71	46.58	31.87	54.00	22.13	V	PASS
6	2910.25	-13.25	46.21	32.96	54.00	21.04	V	PASS

Mode	Test channel	Ant. Pol.
BLE-2Mbps	2478MHz	Horizontal



Suspected Data List

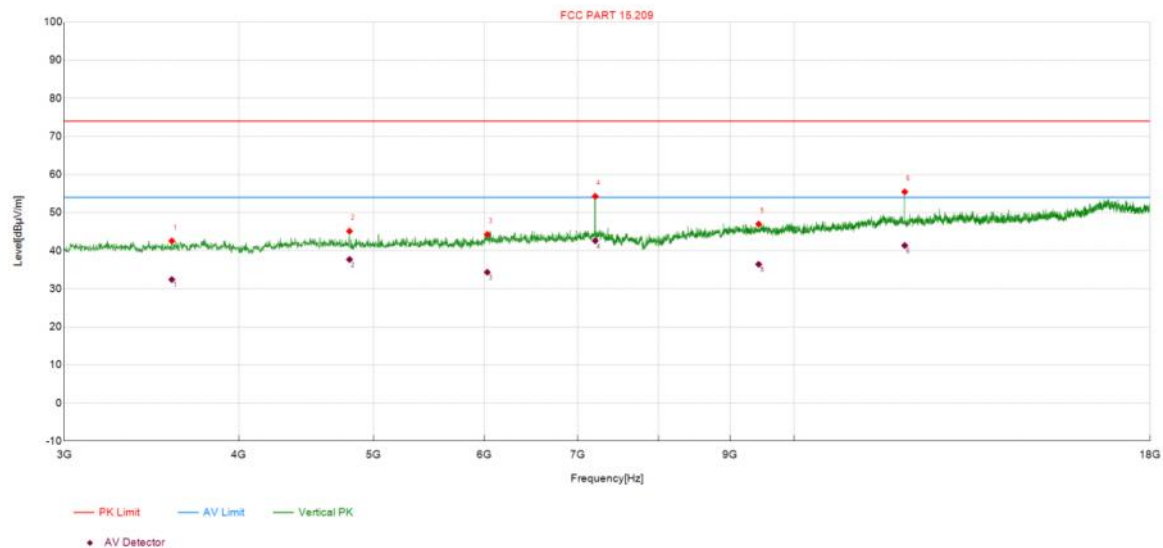
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1037.50	60.76	38.87	-21.89	74.00	35.13	150	320	PK	H	PASS
2	1319.50	58.38	39.42	-18.96	74.00	34.58	150	201	PK	H	PASS
3	1641.75	58.48	38.60	-19.88	74.00	35.40	150	73	PK	H	PASS
4	1965.00	57.55	41.85	-15.70	74.00	32.15	150	261	PK	H	PASS
5	2381.75	59.57	45.44	-14.13	74.00	28.56	150	212	PK	H	PASS
6	2519.00	63.15	48.93	-14.22	74.00	25.07	150	192	PK	H	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	1037.50	-21.89	48.71	26.82	54.00	27.18	H	PASS
2	1319.50	-18.96	47.62	28.66	54.00	25.34	H	PASS
3	1641.75	-19.88	48.44	28.56	54.00	25.44	H	PASS
4	1965.00	-15.70	47.05	31.35	54.00	22.65	H	PASS
5	2381.75	-14.13	46.95	32.82	54.00	21.18	H	PASS
6	2519.00	-14.22	46.42	32.20	54.00	21.80	H	PASS

Radiated Emission test (3GHz-18GHz)

Mode	Test channel	Ant. Pol.
BLE-1Mbps	2402MHz	Vertical

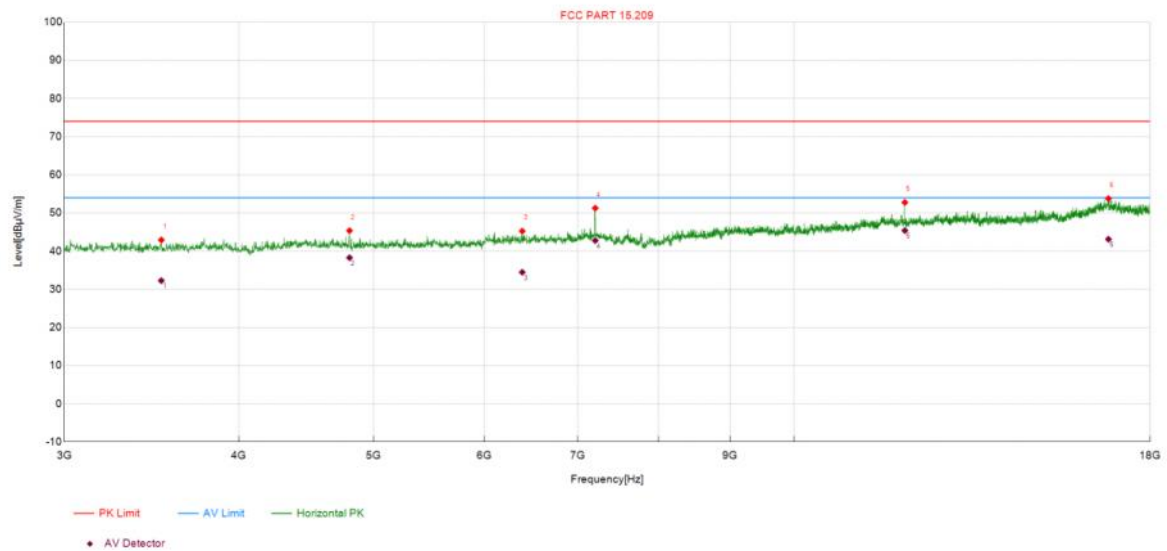
**Suspected Data List**

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	3583.13	55.12	42.57	-12.55	74.00	31.43	200	42	PK	V	PASS
2	4803.75	55.48	45.14	-10.34	74.00	28.86	200	51	PK	V	PASS
3	6030.00	51.61	44.30	-7.31	74.00	29.70	100	3	PK	V	PASS
4	7205.63	60.46	54.29	-6.17	74.00	19.71	200	221	PK	V	PASS
5	9436.88	50.87	47.00	-3.87	74.00	27.00	200	1	PK	V	PASS
6	12009.38	55.14	55.46	0.32	74.00	18.54	200	1	PK	V	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	3583.13	-12.55	44.98	32.43	54.00	21.57	V	PASS
2	4803.75	-10.34	48.04	37.70	54.00	16.30	V	PASS
3	6030.00	-7.31	41.67	34.36	54.00	19.64	V	PASS
4	7205.63	-6.17	48.78	42.61	54.00	11.39	V	PASS
5	9436.88	-3.87	40.31	36.44	54.00	17.56	V	PASS
6	12009.38	0.32	41.05	41.37	54.00	12.63	V	PASS

Mode	Test channel	Ant. Pol.
BLE-1Mbps	2402MHz	Horizontal



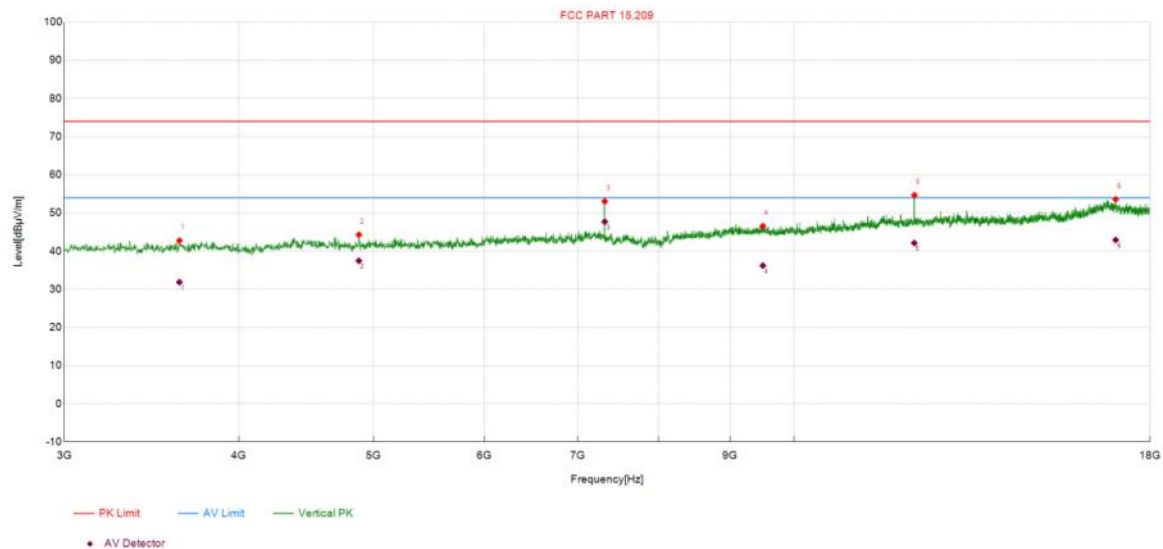
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	3521.25	55.78	42.94	-12.84	74.00	31.06	100	42	PK	H	PASS
2	4803.75	55.72	45.38	-10.34	74.00	28.62	200	162	PK	H	PASS
3	6388.13	52.41	45.27	-7.14	74.00	28.73	100	161	PK	H	PASS
4	7205.63	57.46	51.29	-6.17	74.00	22.71	100	72	PK	H	PASS
5	12011.25	52.47	52.78	0.31	74.00	21.22	100	347	PK	H	PASS
6	16807.50	46.21	53.78	7.57	74.00	20.22	100	42	PK	H	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	3521.25	-12.84	45.12	32.28	54.00	21.72	H	PASS
2	4803.75	-10.34	48.63	38.29	54.00	15.71	H	PASS
3	6388.13	-7.14	41.61	34.47	54.00	19.53	H	PASS
4	7205.63	-6.17	48.95	42.78	54.00	11.22	H	PASS
5	12011.25	0.31	45.10	45.41	54.00	8.59	H	PASS
6	16807.50	7.57	35.57	43.14	54.00	10.86	H	PASS

Mode	Test channel	Ant. Pol.
BLE-1Mbps	2440MHz	Vertical



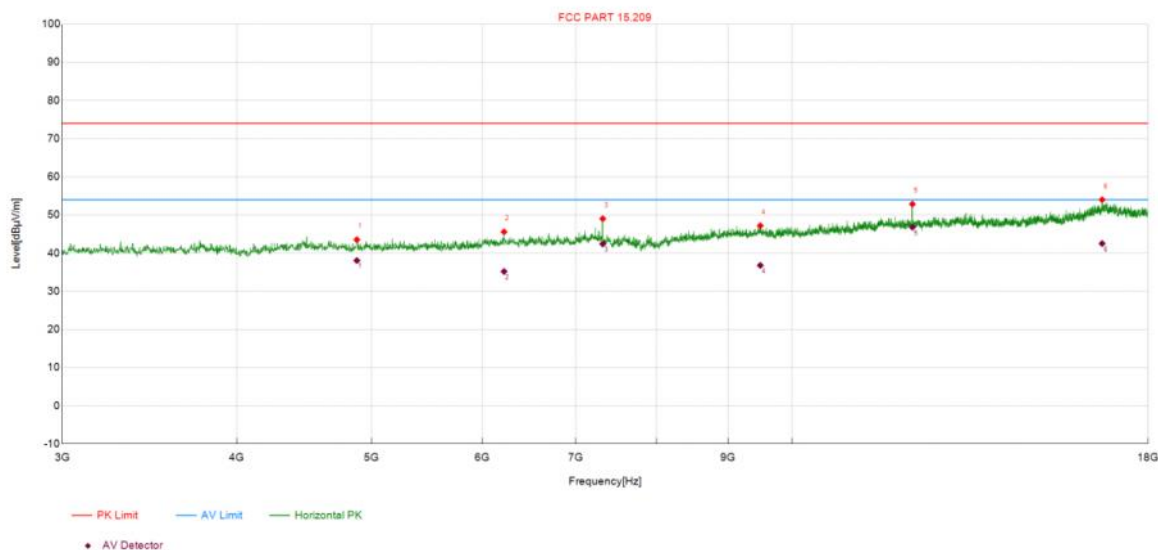
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	3628.13	55.30	42.76	-12.54	74.00	31.24	100	69	PK	V	PASS
2	4878.75	54.29	44.31	-9.98	74.00	29.69	200	309	PK	V	PASS
3	7320.00	59.37	53.05	-6.32	74.00	20.95	200	218	PK	V	PASS
4	9502.50	50.41	46.58	-3.83	74.00	27.42	100	119	PK	V	PASS
5	12202.50	54.09	54.68	0.59	74.00	19.32	200	360	PK	V	PASS
6	17008.13	46.01	53.58	7.57	74.00	20.42	100	2	PK	V	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	3628.13	-12.54	44.42	31.88	54.00	22.12	V	PASS
2	4878.75	-9.98	47.46	37.48	54.00	16.52	V	PASS
3	7320.00	-6.32	54.04	47.72	54.00	6.28	V	PASS
4	9502.50	-3.83	40.05	36.22	54.00	17.78	V	PASS
5	12198.65	0.59	41.55	42.14	54.00	11.86	V	PASS
6	17008.13	7.57	35.36	42.93	54.00	11.07	V	PASS

Mode	Test channel	Ant. Pol.
BLE-1Mbps	2440MHz	Horizontal



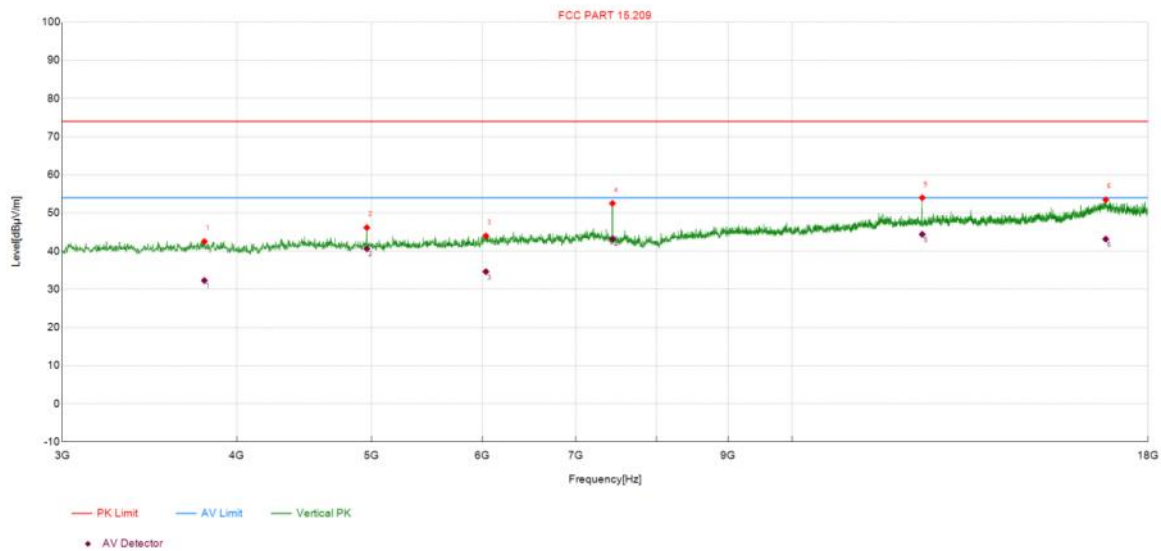
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	4878.75	53.51	43.53	-9.98	74.00	30.47	100	318	PK	H	PASS
2	6219.38	53.07	45.59	-7.48	74.00	28.41	200	346	PK	H	PASS
3	7320.00	55.35	49.03	-6.32	74.00	24.97	200	353	PK	H	PASS
4	9493.13	51.04	47.20	-3.84	74.00	26.80	100	299	PK	H	PASS
5	12200.63	52.27	52.86	0.59	74.00	21.14	100	240	PK	H	PASS
6	16687.50	46.99	54.00	7.01	74.00	20.00	200	12	PK	H	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	4878.75	-9.98	48.05	38.07	54.00	15.93	H	PASS
2	6219.38	-7.48	42.69	35.21	54.00	18.79	H	PASS
3	7320.00	-6.32	48.73	42.41	54.00	11.59	H	PASS
4	9493.13	-3.84	40.63	36.79	54.00	17.21	H	PASS
5	12200.63	0.59	46.22	46.81	54.00	7.19	H	PASS
6	16687.50	7.01	35.51	42.52	54.00	11.48	H	PASS

Mode	Test channel	Ant. Pol.
BLE-1Mbps	2480MHz	Vertical



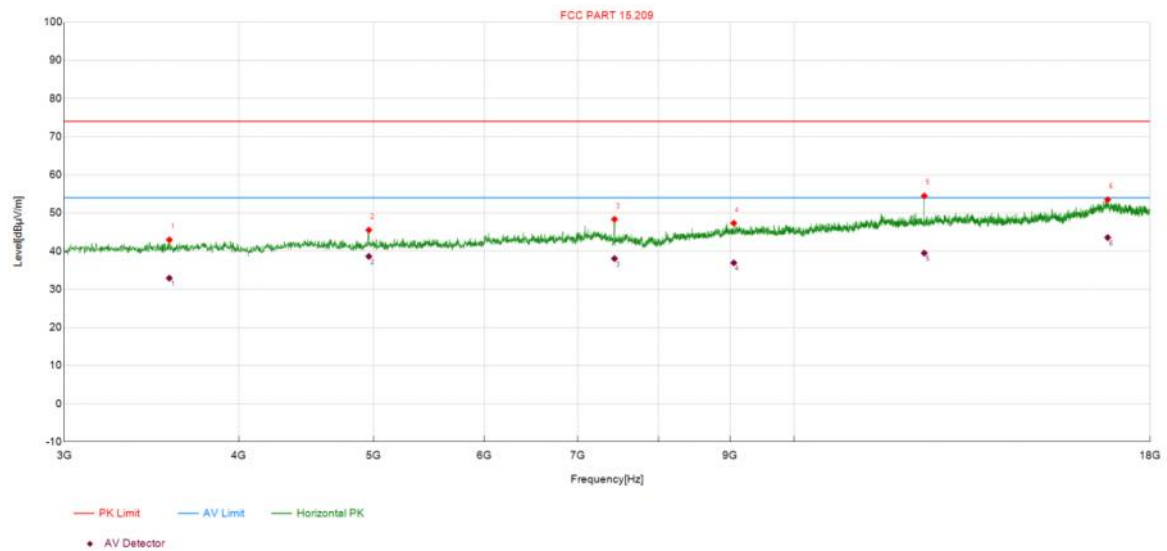
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	3793.13	54.28	42.51	-11.77	74.00	31.49	200	360	PK	V	PASS
2	4959.38	55.67	46.19	-9.48	74.00	27.81	200	42	PK	V	PASS
3	6035.63	51.16	44.01	-7.15	74.00	29.99	100	357	PK	V	PASS
4	7438.13	58.87	52.53	-6.34	74.00	21.47	200	3	PK	V	PASS
5	12401.25	53.27	54.00	0.73	74.00	20.00	200	239	PK	V	PASS
6	16786.88	45.95	53.49	7.54	74.00	20.51	100	357	PK	V	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	3793.13	-11.77	44.08	32.31	54.00	21.69	V	PASS
2	4959.38	-9.48	50.12	40.64	54.00	13.36	V	PASS
3	6035.63	-7.15	41.78	34.63	54.00	19.37	V	PASS
4	7438.13	-6.34	49.59	43.25	54.00	10.75	V	PASS
5	12401.25	0.73	43.68	44.41	54.00	9.59	V	PASS
6	16786.88	7.54	35.63	43.17	54.00	10.83	V	PASS

Mode	Test channel	Ant. Pol.
BLE-1Mbps	2480MHz	Horizontal



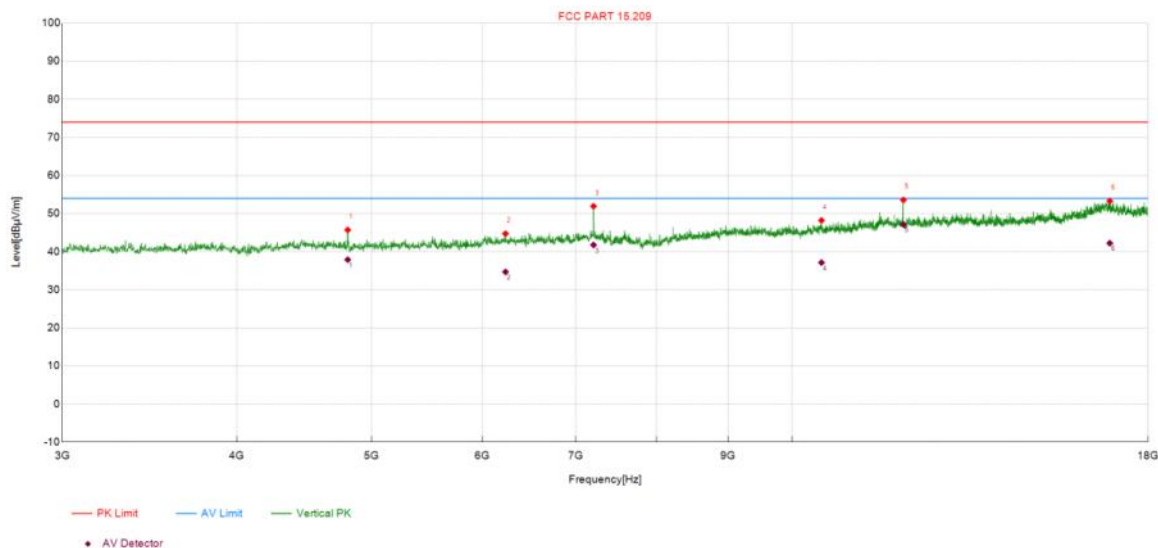
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	3568.13	55.58	42.98	-12.60	74.00	31.02	100	309	PK	H	PASS
2	4959.38	55.01	45.53	-9.48	74.00	28.47	200	318	PK	H	PASS
3	7438.13	54.70	48.36	-6.34	74.00	25.64	200	345	PK	H	PASS
4	9056.25	51.75	47.33	-4.42	74.00	26.67	100	2	PK	H	PASS
5	12401.25	53.75	54.48	0.73	74.00	19.52	100	249	PK	H	PASS
6	16785.00	45.95	53.49	7.54	74.00	20.51	200	31	PK	H	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	3568.13	-12.60	45.53	32.93	54.00	21.07	H	PASS
2	4959.38	-9.48	48.11	38.63	54.00	15.37	H	PASS
3	7438.13	-6.34	44.40	38.06	54.00	15.94	H	PASS
4	9056.25	-4.42	41.36	36.94	54.00	17.06	H	PASS
5	12401.25	0.73	38.77	39.50	54.00	14.50	H	PASS
6	16785.00	7.54	36.02	43.56	54.00	10.44	H	PASS

Mode	Test channel	Ant. Pol.
BLE-2Mbps	2404MHz	Vertical



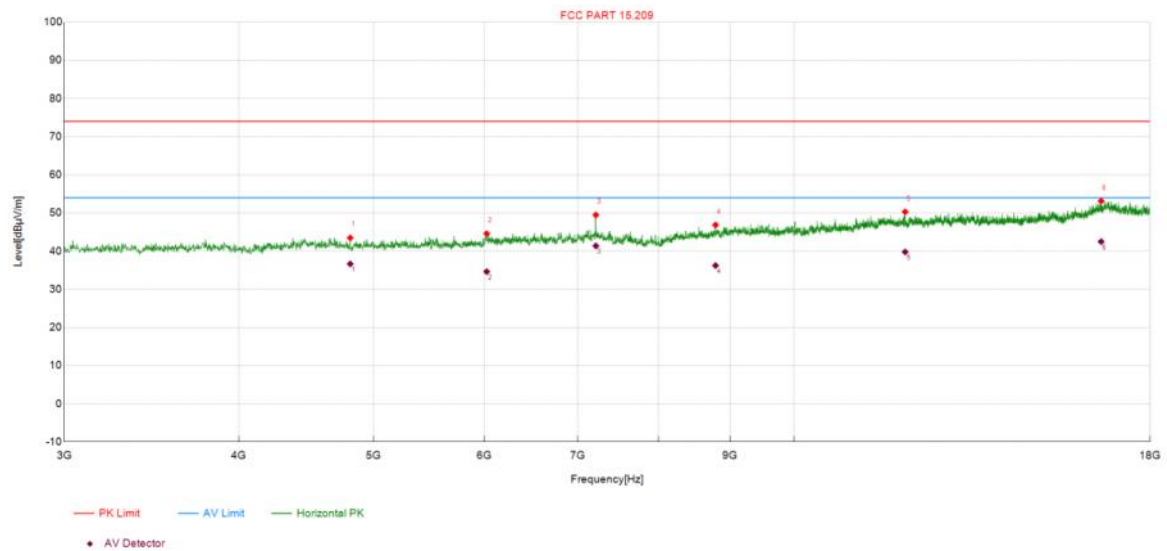
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	4805.63	56.03	45.70	-10.33	74.00	28.30	200	69	PK	V	PASS
2	6234.38	52.09	44.73	-7.36	74.00	29.27	100	355	PK	V	PASS
3	7209.38	58.09	51.94	-6.15	74.00	22.06	100	222	PK	V	PASS
4	10501.88	50.23	48.23	-2.00	74.00	25.77	100	51	PK	V	PASS
5	12022.50	53.29	53.59	0.30	74.00	20.41	200	29	PK	V	PASS
6	16899.38	45.80	53.31	7.51	74.00	20.69	200	159	PK	V	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	4805.63	-10.33	48.24	37.91	54.00	16.09	V	PASS
2	6234.38	-7.36	42.06	34.70	54.00	19.30	V	PASS
3	7209.38	-6.15	47.93	41.78	54.00	12.22	V	PASS
4	10501.88	-2.00	39.15	37.15	54.00	16.85	V	PASS
5	12022.50	0.30	46.86	47.16	54.00	6.84	V	PASS
6	16899.38	7.51	34.73	42.24	54.00	11.76	V	PASS

Mode	Test channel	Ant. Pol.
BLE-2Mbps	2404MHz	Horizontal



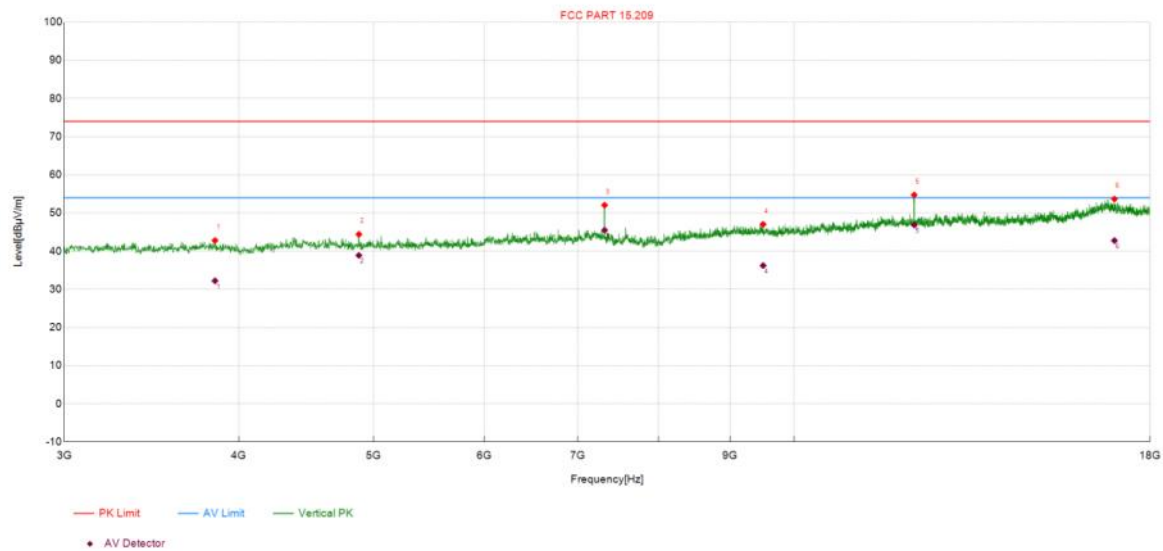
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	4809.38	53.81	43.48	-10.33	74.00	30.52	100	348	PK	H	PASS
2	6024.38	52.06	44.58	-7.48	74.00	29.42	200	160	PK	H	PASS
3	7213.13	55.63	49.49	-6.14	74.00	24.51	200	0	PK	H	PASS
4	8788.13	51.82	46.87	-4.95	74.00	27.13	100	171	PK	H	PASS
5	12016.88	50.00	50.31	0.31	74.00	23.69	100	281	PK	H	PASS
6	16605.00	46.21	53.13	6.92	74.00	20.87	200	179	PK	H	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	4809.38	-10.33	46.99	36.66	54.00	17.34	H	PASS
2	6024.38	-7.48	42.11	34.63	54.00	19.37	H	PASS
3	7213.13	-6.14	47.52	41.38	54.00	12.62	H	PASS
4	8788.13	-4.95	41.19	36.24	54.00	17.76	H	PASS
5	12016.88	0.31	39.49	39.80	54.00	14.20	H	PASS
6	16605.00	6.92	35.58	42.50	54.00	11.50	H	PASS

Mode	Test channel	Ant. Pol.
BLE-2Mbps	2440MHz	Vertical



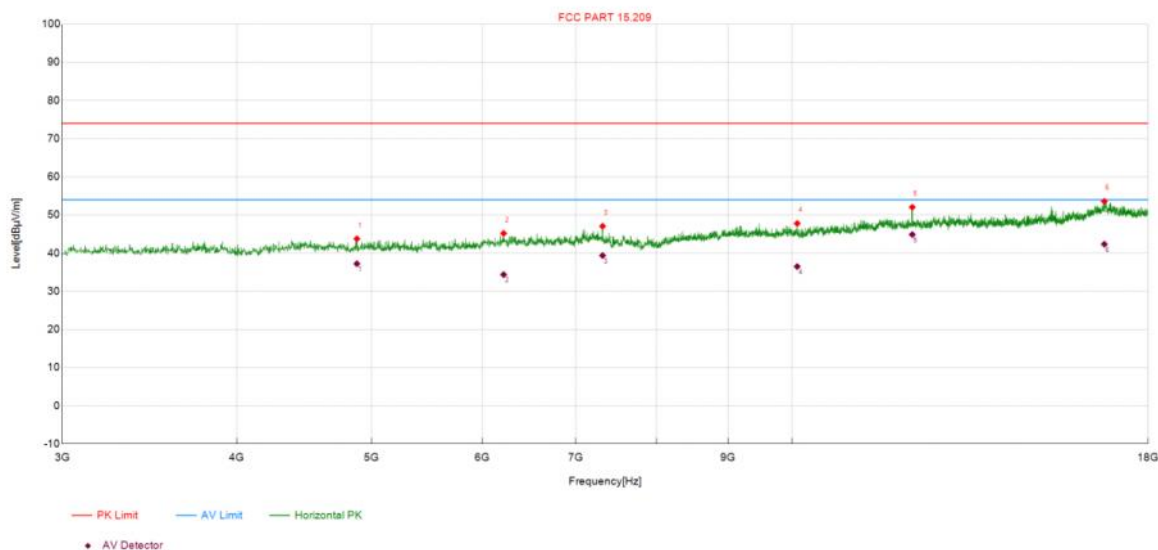
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	3847.50	54.82	42.80	-12.02	74.00	31.20	200	240	PK	V	PASS
2	4878.75	54.39	44.41	-9.98	74.00	29.59	200	51	PK	V	PASS
3	7318.13	58.38	52.06	-6.32	74.00	21.94	200	210	PK	V	PASS
4	9506.25	50.86	47.04	-3.82	74.00	26.96	200	231	PK	V	PASS
5	12196.88	54.15	54.74	0.59	74.00	19.26	200	358	PK	V	PASS
6	16972.50	46.12	53.66	7.54	74.00	20.34	100	141	PK	V	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	3847.50	-12.02	44.24	32.22	54.00	21.78	V	PASS
2	4878.75	-9.98	48.88	38.90	54.00	15.10	V	PASS
3	7318.13	-6.32	51.81	45.49	54.00	8.51	V	PASS
4	9506.25	-3.82	40.05	36.23	54.00	17.77	V	PASS
5	12196.88	0.59	46.27	46.86	54.00	7.14	V	PASS
6	16972.50	7.54	35.23	42.77	54.00	11.23	V	PASS

Mode	Test channel	Ant. Pol.
BLE-2Mbps	2440MHz	Horizontal



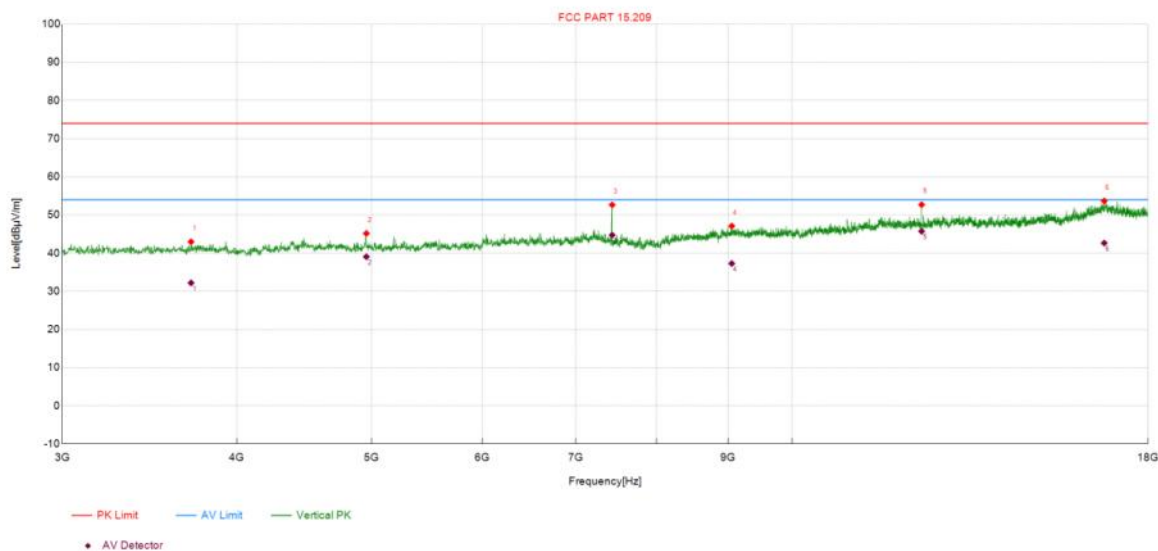
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	4878.75	53.75	43.77	-9.98	74.00	30.23	200	91	PK	H	PASS
2	6215.63	52.72	45.20	-7.52	74.00	28.80	100	22	PK	H	PASS
3	7318.13	53.39	47.07	-6.32	74.00	26.93	200	358	PK	H	PASS
4	10089.38	50.54	47.79	-2.75	74.00	26.21	100	259	PK	H	PASS
5	12198.75	51.46	52.05	0.59	74.00	21.95	100	279	PK	H	PASS
6	16747.50	46.15	53.59	7.44	74.00	20.41	100	110	PK	H	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	4878.75	-9.98	47.22	37.24	54.00	16.76	H	PASS
2	6215.63	-7.52	41.90	34.38	54.00	19.62	H	PASS
3	7318.13	-6.32	45.70	39.38	54.00	14.62	H	PASS
4	10089.38	-2.75	39.24	36.49	54.00	17.51	H	PASS
5	12198.75	0.59	44.29	44.88	54.00	9.12	H	PASS
6	16747.50	7.44	34.92	42.36	54.00	11.64	H	PASS

Mode	Test channel	Ant. Pol.
BLE-2Mbps	2478MHz	Vertical



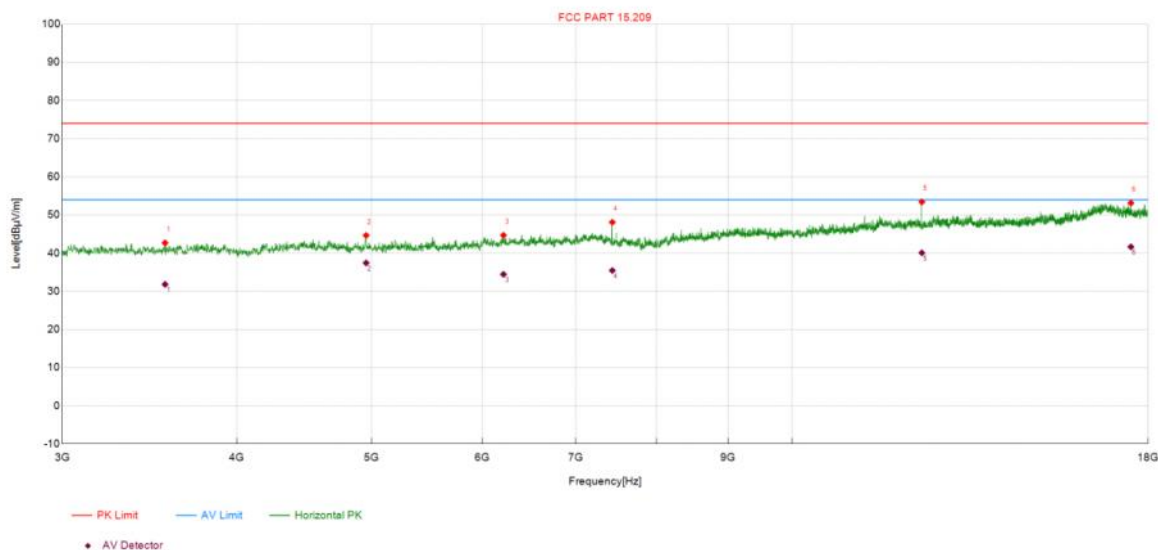
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	3710.63	55.58	42.98	-12.60	74.00	31.02	200	240	PK	V	PASS
2	4955.63	54.67	45.18	-9.49	74.00	28.82	200	63	PK	V	PASS
3	7434.38	59.01	52.65	-6.36	74.00	21.35	200	7	PK	V	PASS
4	9056.25	51.55	47.13	-4.42	74.00	26.87	200	0	PK	V	PASS
5	12388.13	51.95	52.70	0.75	74.00	21.30	200	320	PK	V	PASS
6	16743.75	46.26	53.68	7.42	74.00	20.32	200	191	PK	V	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	3710.63	-12.60	44.81	32.21	54.00	21.79	V	PASS
2	4955.63	-9.49	48.56	39.07	54.00	14.93	V	PASS
3	7434.38	-6.36	51.10	44.74	54.00	9.26	V	PASS
4	9056.25	-4.42	41.71	37.29	54.00	16.71	V	PASS
5	12388.13	0.75	44.98	45.73	54.00	8.27	V	PASS
6	16743.75	7.42	35.23	42.65	54.00	11.35	V	PASS

Mode	Test channel	Ant. Pol.
BLE-2Mbps	2478MHz	Horizontal



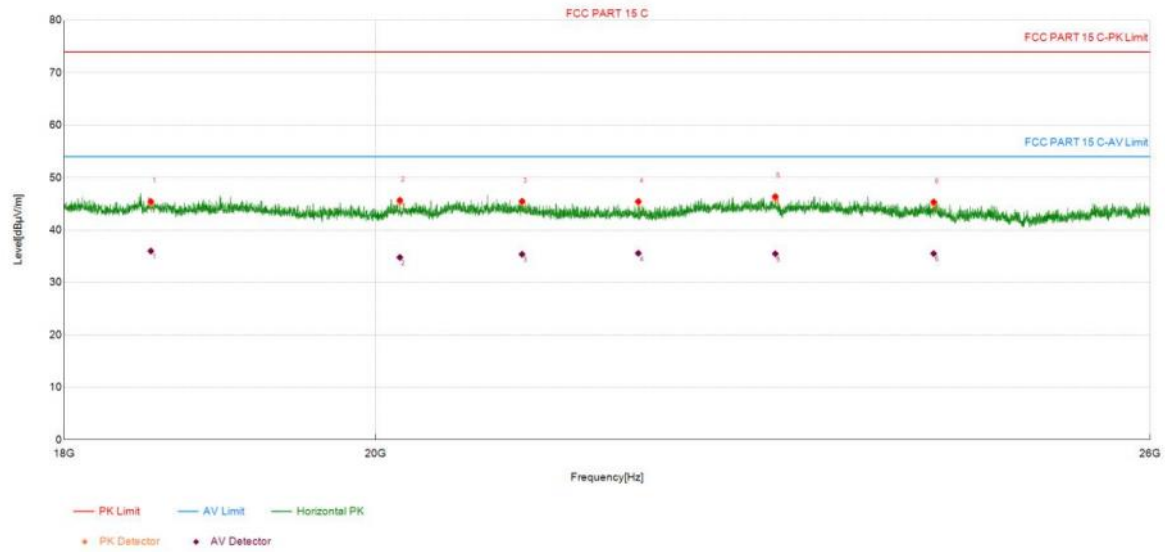
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	3555.00	55.33	42.69	-12.64	74.00	31.31	200	162	PK	H	PASS
2	4953.75	54.15	44.65	-9.50	74.00	29.35	100	22	PK	H	PASS
3	6213.75	52.22	44.69	-7.53	74.00	29.31	200	230	PK	H	PASS
4	7436.25	54.45	48.11	-6.34	74.00	25.89	200	221	PK	H	PASS
5	12393.75	52.70	53.44	0.74	74.00	20.56	100	240	PK	H	PASS
6	17497.50	45.83	53.15	7.32	74.00	20.85	100	32	PK	H	PASS

Final Data List

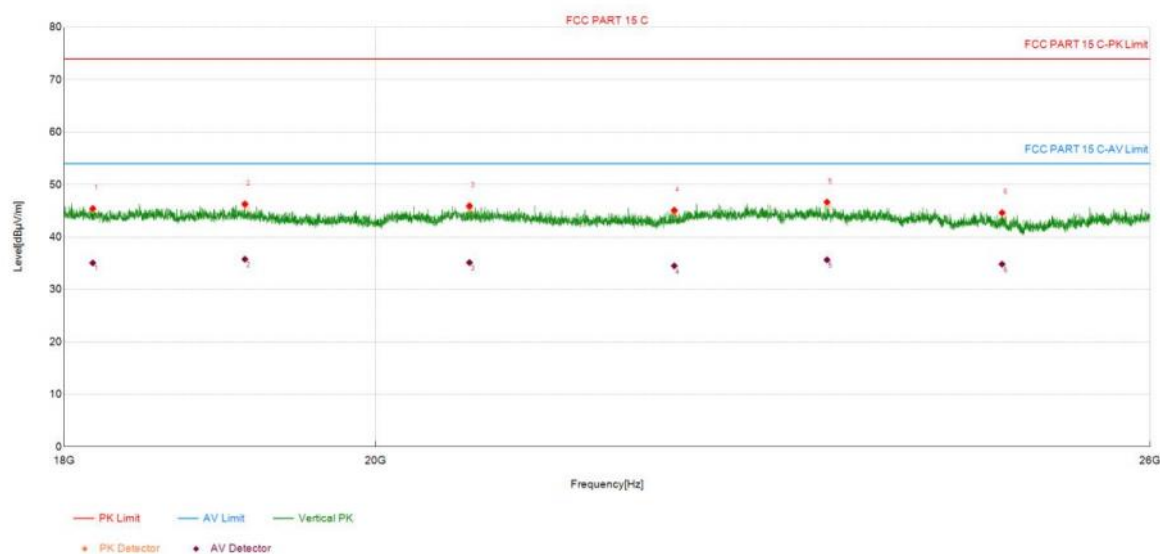
NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	3555.00	-12.64	44.46	31.82	54.00	22.18	H	PASS
2	4953.75	-9.50	46.95	37.45	54.00	16.55	H	PASS
3	6213.75	-7.53	41.98	34.45	54.00	19.55	H	PASS
4	7436.25	-6.34	41.79	35.45	54.00	18.55	H	PASS
5	12393.75	0.74	39.35	40.09	54.00	13.91	H	PASS
6	17497.50	7.32	34.34	41.66	54.00	12.34	H	PASS

Radiated Emission test (18GHz-26GHz)



Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	PK Reading [dBμV]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	18536.00	-1.02	46.02	45.00	74.00	29.00	37.02	36.00	54.00	18.00	H	PASS
2	20167.00	-3.08	48.42	45.34	74.00	28.66	37.87	34.79	54.00	19.21	H	PASS
3	21019.00	-3.75	48.98	45.23	74.00	28.77	39.14	35.39	54.00	18.61	H	PASS
4	21863.00	-4.55	49.85	45.30	74.00	28.70	40.13	35.58	54.00	18.42	H	PASS
5	22901.00	-2.99	48.99	46.00	74.00	28.00	38.48	35.49	54.00	18.51	H	PASS
6	24163.00	-3.98	48.92	44.94	74.00	29.06	39.50	35.52	54.00	18.48	H	PASS



Final Data List

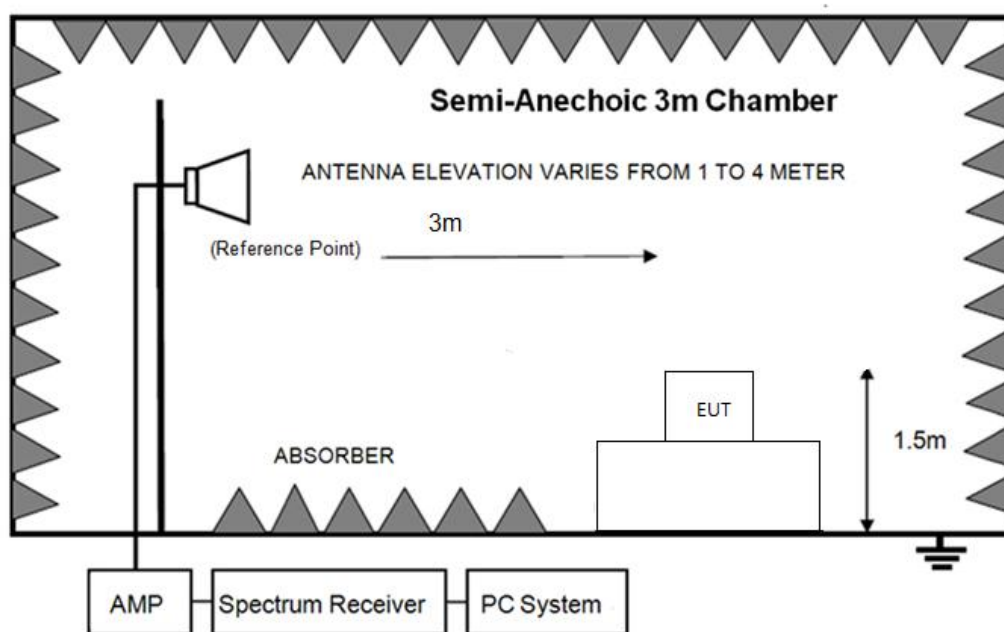
NO.	Frequency [MHz]	Factor [dB/m]	PK Reading [dBμV]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	18175.00	-0.91	46.22	45.31	74.00	28.69	35.98	35.07	54.00	18.93	V	PASS
2	19136.00	-1.91	48.01	46.10	74.00	27.90	37.69	35.78	54.00	18.22	V	PASS
3	20648.00	-3.53	49.14	45.61	74.00	28.39	38.68	35.15	54.00	18.85	V	PASS
4	22131.00	-3.87	48.73	44.86	74.00	29.14	38.38	34.51	54.00	19.49	V	PASS
5	23306.00	-3.29	49.96	46.67	74.00	27.33	38.95	35.66	54.00	18.34	V	PASS
6	24729.00	-4.48	49.03	44.55	74.00	29.45	39.32	34.84	54.00	19.16	V	PASS

10. Emissions in Restricted Frequency Bands

10.1. General Information

Test date	Mar. 05, 2026	Test engineer	Jimmy Qu	
Climate condition	Ambient temperature	22.3°C	Relative humidity	55.1%
	Atmospheric pressure	101.3kPa		
Test place	EMC Room 1#			

10.2. Block diagram of test setup



10.3. Limit

All restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400 MHz to 2483.5 MHz shall be at least 20dB below the fundamental emissions or comply with RSS-Gen Issue 4 clause 8.9 & 8.10 (Same as FCC 15.209) limits.

10.4. Test Procedure

Same with clause 8.3 except change investigated frequency range from 2310 MHz to 2410 MHz and 2475 MHz to 2500 MHz.

Remark: All restriction band have been tested, and only the worst case is shown in report.

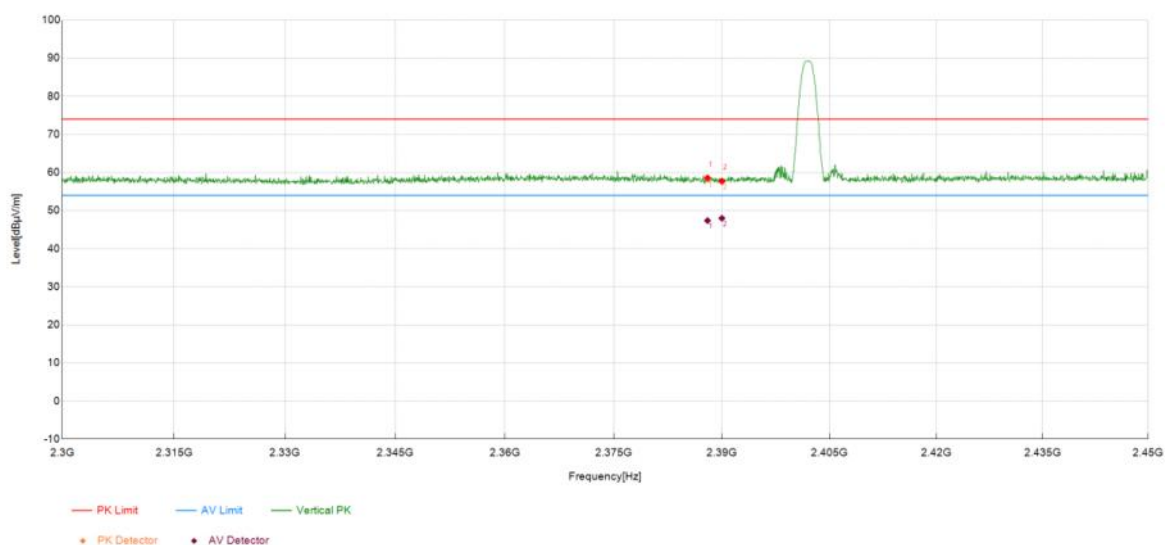
10.5. Test result

Pass. (See below detailed test result)

Radiated Emission Test Result

Mode	Test channel	Ant. Pol.
BLE-1M	2402MHz	Vertical

Test Graph



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2388.00	56.67	58.61	1.94	74.00	15.39	100	271	PK	Vert	PASS
2	2390.00	55.80	57.76	1.96	74.00	16.24	200	216	PK	Vert	PASS

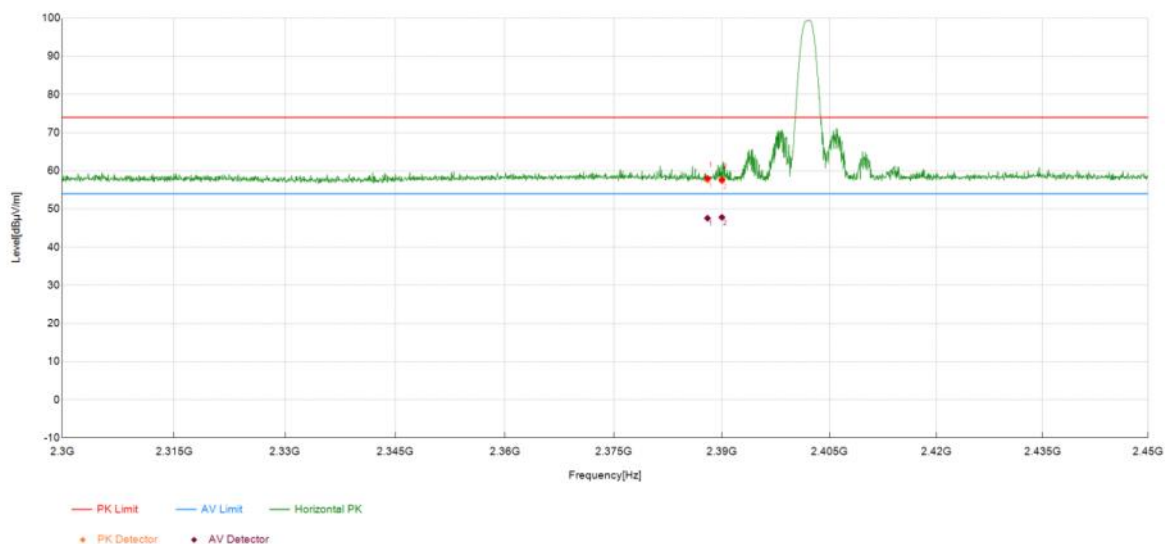
Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	PK Reading [dBμV]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	2388.00	1.94	56.28	58.22	74.00	15.78	45.44	47.38	54.00	6.62	Vertical	PASS
2	2390.00	1.96	55.59	57.55	74.00	16.45	46.04	48.00	54.00	6.00	Vertical	PASS

Radiated Emission Test Result

Mode	Test channel	Ant. Pol.
BLE-1M	2402MHz	Horizontal

Test Graph



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2388.00	56.10	58.04	1.94	74.00	15.96	100	143	PK	Hor	PASS
2	2390.00	55.71	57.67	1.96	74.00	16.33	200	294	PK	Hor	PASS

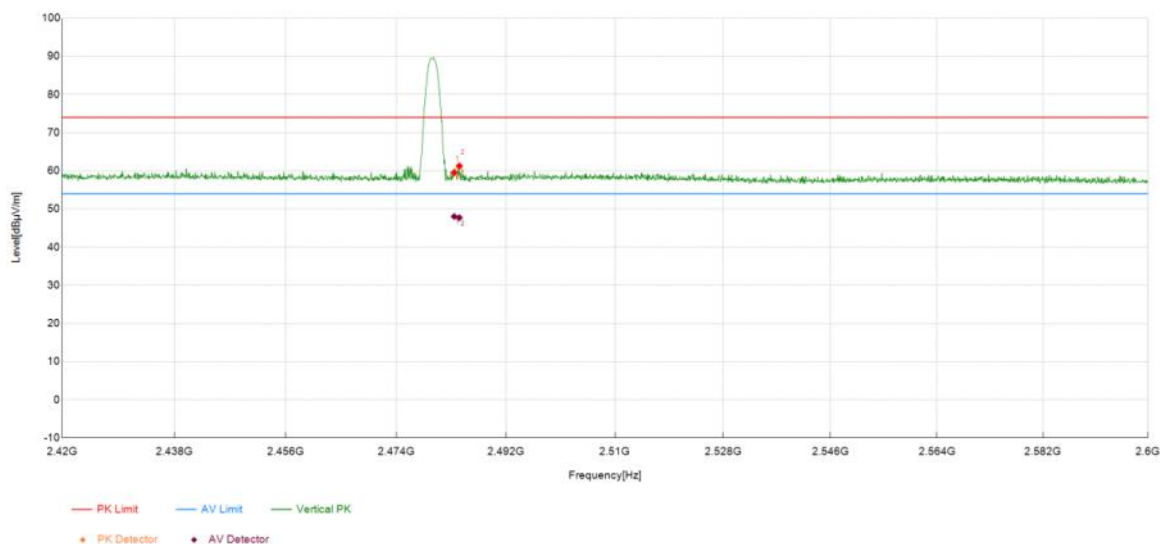
Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	PK Reading [dBμV]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	2388.00	1.94	55.67	57.61	74.00	16.39	45.65	47.59	54.00	6.41	Horizontal	PASS
2	2390.00	1.96	55.38	57.34	74.00	16.66	45.86	47.82	54.00	6.18	Horizontal	PASS

Radiated Emission Test Result

Mode	Test channel	Ant. Pol.
BLE-1M	2480MHz	Vertical

Test Graph



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2483.50	57.67	59.59	1.92	74.00	14.41	200	161	PK	Ver	PASS
2	2484.34	59.42	61.35	1.93	74.00	12.65	100	151	PK	Ver	PASS

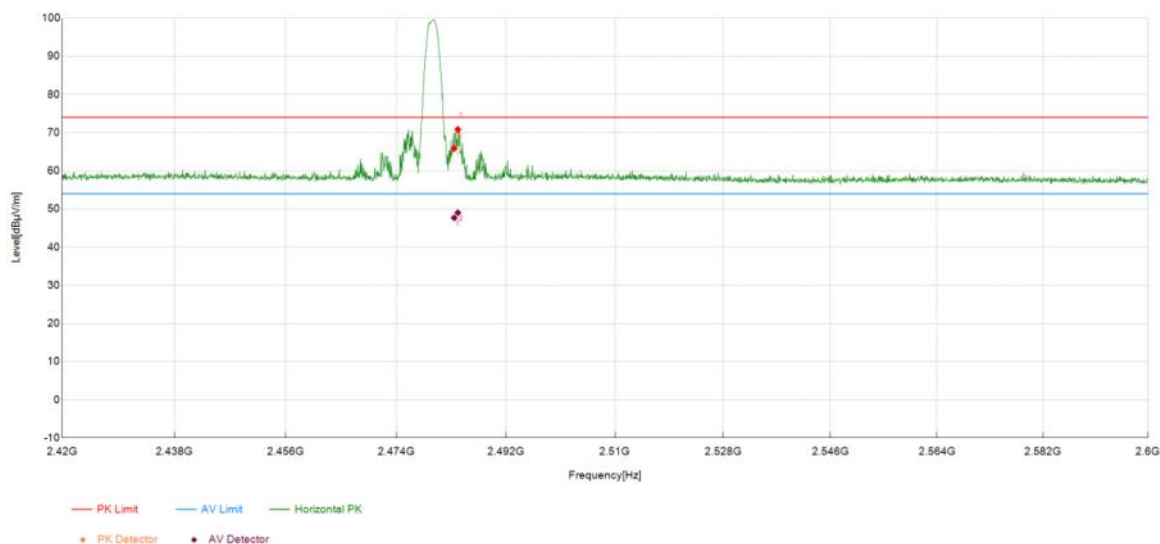
Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	PK Reading [dBμV]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	2483.50	1.92	57.37	59.29	74.00	14.71	46.11	48.03	54.00	5.97	Vertical	PASS
2	2484.34	1.93	59.04	60.97	74.00	13.03	45.79	47.72	54.00	6.28	Vertical	PASS

Radiated Emission Test Result

Mode	Test channel	Ant. Pol.
BLE-1M	2480MHz	Horizontal

Test Graph



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2483.50	64.05	65.97	1.92	74.00	8.03	200	224	PK	Hor	PASS
2	2484.10	68.94	70.87	1.93	74.00	3.13	100	216	PK	Hor	PASS

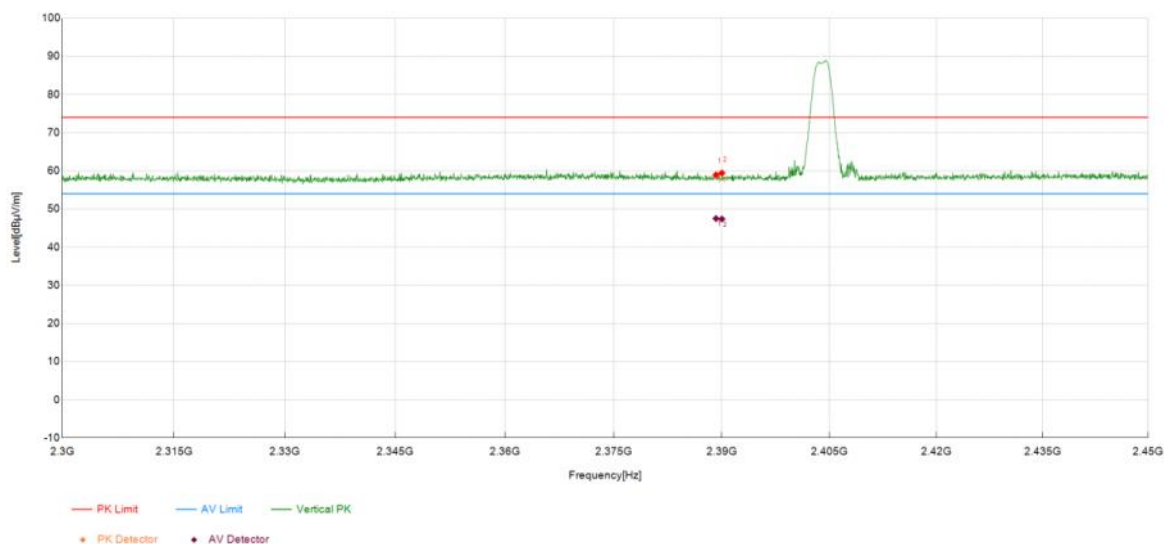
Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	PK Reading [dBμV]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	2483.50	1.92	63.86	65.78	74.00	8.22	45.77	47.69	54.00	6.31	Horizontal	PASS
2	2484.10	1.93	68.85	70.78	74.00	3.22	47.10	49.03	54.00	4.97	Horizontal	PASS

Radiated Emission Test Result

Mode	Test channel	Ant. Pol.
BLE-2M	2404MHz	Vertical

Test Graph



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2389.18	57.03	58.97	1.94	74.00	15.03	100	333	PK	Vert	PASS
2	2390.00	57.48	59.44	1.96	74.00	14.56	200	58	PK	Vert	PASS

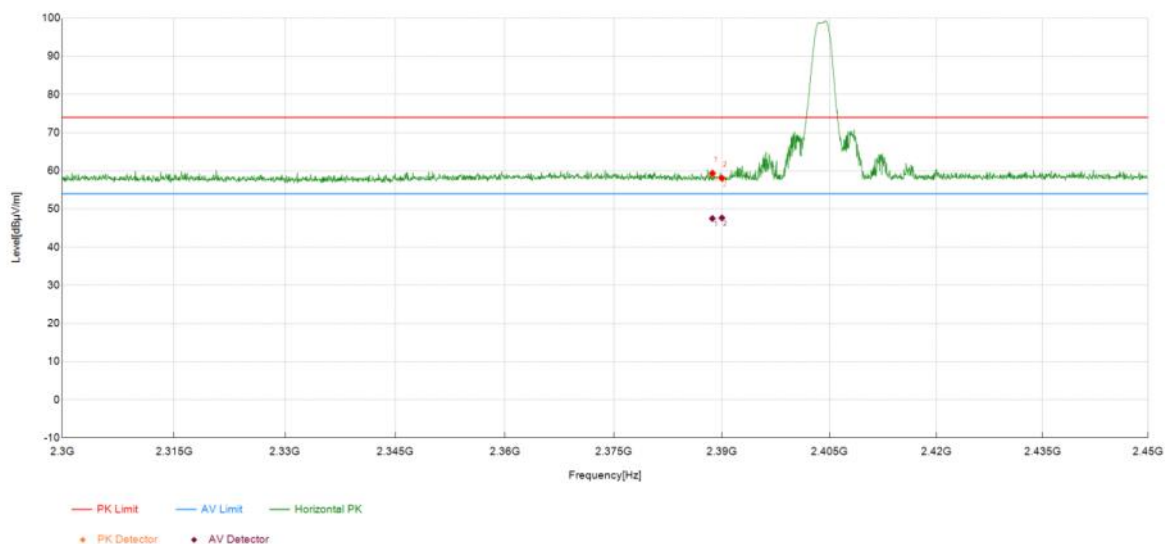
Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	PK Reading [dBμV]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	2389.18	1.94	56.82	58.76	74.00	15.24	45.57	47.51	54.00	6.49	Vertical	PASS
2	2390.00	1.96	57.37	59.33	74.00	14.67	45.41	47.37	54.00	6.63	Vertical	PASS

Radiated Emission Test Result

Mode	Test channel	Ant. Pol.
BLE-2M	2404MHz	Horizontal

Test Graph



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2388.68	57.47	59.41	1.94	74.00	14.59	100	216	PK	Hori	PASS
2	2390.00	56.17	58.13	1.96	74.00	15.87	200	256	PK	Hori	PASS

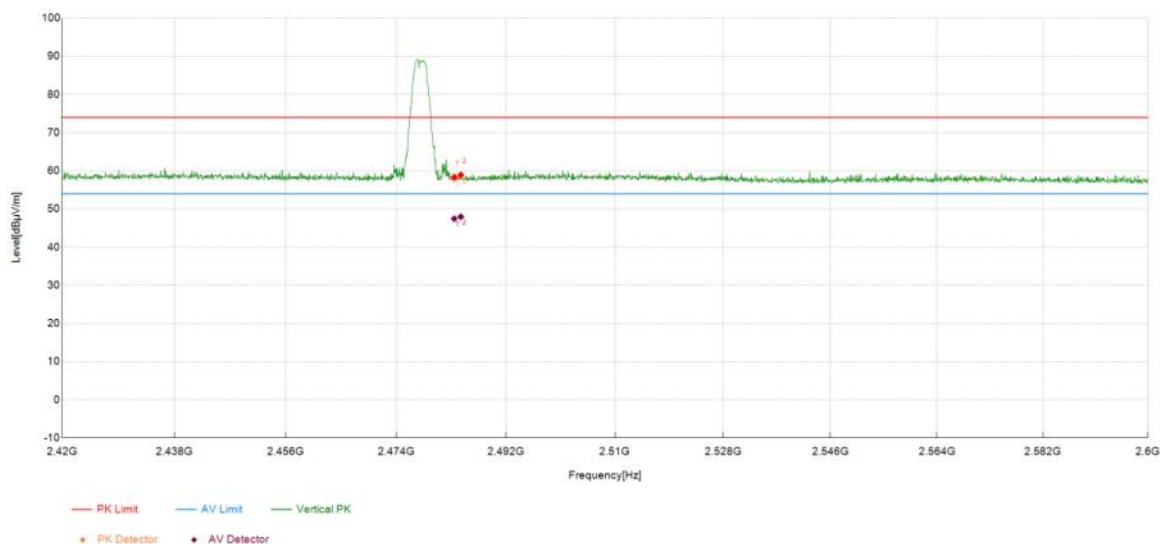
Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	PK Reading [dBμV]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	2388.68	1.94	57.16	59.10	74.00	14.90	45.58	47.52	54.00	6.48	Horizontal	PASS
2	2390.00	1.96	55.96	57.92	74.00	16.08	45.70	47.66	54.00	6.34	Horizontal	PASS

Radiated Emission Test Result

Mode	Test channel	Ant. Pol.
BLE-2M	2478MHz	Vertical

Test Graph



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2483.50	56.47	58.39	1.92	74.00	15.61	200	292	PK	Vert	PASS
2	2484.58	57.03	58.96	1.93	74.00	15.04	100	187	PK	Vert	PASS

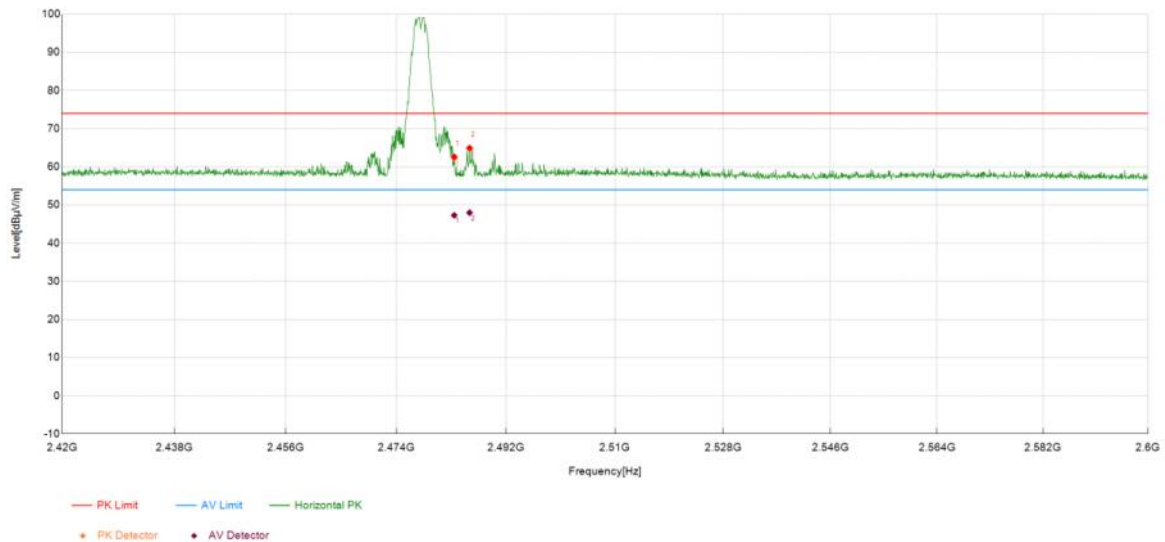
Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	PK Reading [dBμV]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	2483.50	1.92	56.07	57.99	74.00	16.01	45.54	47.46	54.00	6.54	Vertical	PASS
2	2484.58	1.93	56.73	58.66	74.00	15.34	46.04	47.97	54.00	6.03	Vertical	PASS

Radiated Emission Test Result

Mode	Test channel	Ant. Pol.
BLE-2M	2478MHz	Horizontal

Test Graph



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2483.50	60.71	62.63	1.92	74.00	11.37	100	208	PK	Hori	PASS
2	2486.02	63.01	64.93	1.92	74.00	9.07	100	208	PK	Hori	PASS

Final Data List

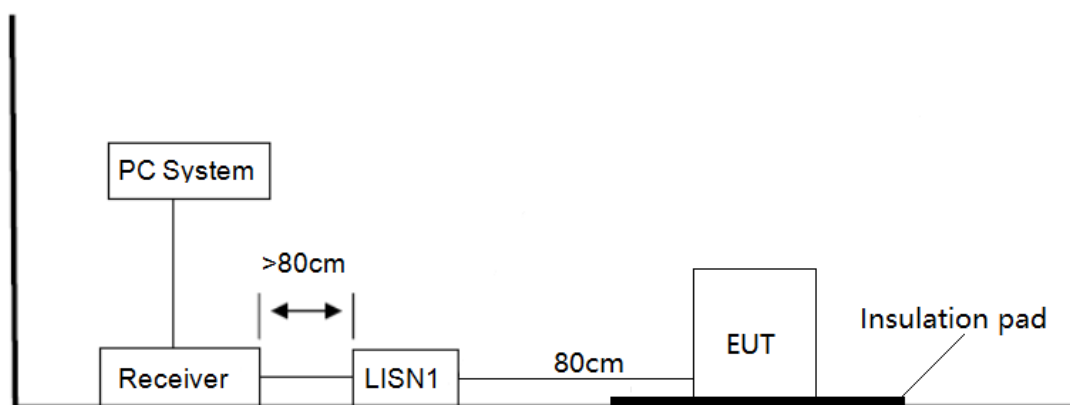
NO.	Frequency [MHz]	Factor [dB/m]	PK Reading [dBμV]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Reading [dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Pol	Verdict
1	2483.50	1.92	60.37	62.29	74.00	11.71	45.38	47.30	54.00	6.70	Horizontal	PASS
2	2486.02	1.92	62.85	64.77	74.00	9.23	46.07	47.99	54.00	6.01	Horizontal	PASS

11. Power Line Conducted Emission

11.1. General Information

Test date	N/A	Test engineer	N/A
Climate condition	Ambient temperature	N/A	Relative humidity
	Atmospheric pressure	N/A	N/A
Test place	EMC Room 1#		

11.2. Block diagram of test setup



11.3. Power line conducted emission limits

Frequency	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

11.4. Test procedure

The EUT and Support equipment, if needed, were put placed on a Insulation pad, 10 mm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

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

The bandwidth of test receiver is set at 9 kHz.

11.5. Test result

N/A

12. Antenna Requirements

12.1. Limit

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna should meet the requirements of RSS-GEN Clause 6.8.

12.2. Result

The antennas used for this product are PCB antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 1.30 dBi.

13. Test Setup Photograph

Please find the Test Setup photos of EUT in APPENDIXES.

14. Photos of the EUT

Please refer to the appendix file.

END OF REPORT