



REPORT No.: SZ25040043W01

# TEST REPORT

**APPLICANT** : Anker Innovations Limited

**PRODUCT NAME** : NEBULA Wireless Satellite Speaker

**MODEL NAME** : D2040R

**BRAND NAME** : NEBULA

**FCC ID** : 2AOKB-D2040R

**STANDARD(S)** : 47 CFR Part 15 Subpart C

**RECEIPT DATE** : 2025-04-03

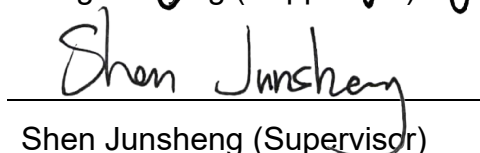
**TEST DATE** : 2025-04-15 to 2025-04-22

**ISSUE DATE** : 2025-04-23

Edited by:

  
Zeng Xiaoying (Rapporteur)

Approved by:

  
Shen Junsheng (Supervisor)

**NOTE:** This document is issued by Shenzhen Morlab Communications Technology Co., Ltd., the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

**MORLAB**

Shenzhen Morlab Communications Technology Co., Ltd.  
FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road,  
Block67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn





## DIRECTORY

<b>1. Summary of Test Result</b>	<b>4</b>
1.1. Testing Applied Standards	5
1.2. Test Equipment List	6
1.3. Measurement Uncertainty	8
1.4. Testing Laboratory	8
<b>2. General Description</b>	<b>9</b>
2.1. Information of Applicant and Manufacturer	9
2.2. Information of EUT	9
2.3. Channel List of EUT	10
2.4. Test Configuration of EUT	11
2.5. Test Conditions	11
2.6. Test Setup Layout Diagram	11
<b>3. Test Results</b>	<b>14</b>
3.1. Antenna Requirement	14
3.2. Duty Cycle of Test Signal	15
3.3. Maximum Peak Conducted Output Power	16
3.4. Maximum Average Conducted Output Power	17
3.5. 6 dB Bandwidth	18
3.6. Conducted Spurious Emissions and Band Edge	19
3.7. Power Spectral Density	20
3.8. Conducted Emission	21
3.9. Restricted Frequency Bands	22
3.10. Radiated Emission	23
<b>Annex A Test Data and Result</b>	<b>25</b>



REPORT No.: SZ25040043W01

Change History		
Version	Date	Reason for change
1.0	2025-04-23	First edition



# 1. Summary of Test Result

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	No deviation
2	N/A	Duty Cycle of Test Signal	Apr. 15, 2025	Li Xinpeng	PASS	No deviation
3	15.247(b)	Maximum Peak Conducted Output Power	Apr. 15, 2025	Li Xinpeng	PASS	No deviation
4	15.247(b)	Maximum Average Conducted Output Power	Apr. 15, 2025	Li Xinpeng	PASS	No deviation
5	15.247(a)	Bandwidth	Apr. 15, 2025	Li Xinpeng	PASS	No deviation
6	15.247(d)	Conducted Spurious Emission and Band Edge	Apr. 15, 2025	Li Xinpeng	PASS	No deviation
7	15.247(e)	Power Spectral Density	Apr. 15, 2025	Li Xinpeng	PASS	No deviation
8	15.207	Conducted Emission	Apr. 21, 2025	Fan Shengquan	PASS	No deviation
9	15.247(d)	Restricted Frequency Bands	Apr. 22, 2025	Tian Xin	PASS	No deviation
10	15.209, 15.247(d)	Radiated Emission	Apr. 22, 2025	Tian Xin	PASS	No deviation

**Note 1:** The tests were performed according to the method of measurements prescribed in ANSI C63.10-2013 and KDB 558074 D01 v05r02.

**Note 2:** Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

**Note 3:** When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.



## 1.1. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart C Radio Frequency Devices



## 1.2. Test Equipment List

### 1.2.1 Conducted Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2025.01.15	2026.01.14
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
SMA Connector	CN01	RF03	HUBER-SUHNER	N/A	N/A

### 1.2.2 Conducted Emission Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2025.01.06	2026.01.05
LISN	8127449	NSLK 8127	Schwarzbeck	2025.01.09	2026.01.08
Pulse Limiter (10dB)	VTSD 9561 F- B #206	VTSD 9561-F	Schwarzbeck	2024.05.30	2025.05.29
RF Coaxial Cable (DC-100MHz)	BNC	MRE04	Qualwave	2024.07.02	2025.07.01

### 1.2.3 List of Software Used

Description	Manufacturer	Software Version
Test System	MaiWei	2.0.0.0
JS32-RE	Tonscend	5.0.0
TS+ -[JS32-CE]	Tonscend	2.5.0.0

**1.2.4 Radiated Test Equipment**

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2024.05.30	2025.05.29
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2024.06.03	2025.06.02
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2024.06.22	2025.06.21
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2024.07.03	2025.07.02
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09



### 1.3. Measurement Uncertainty

Test Items	Uncertainty	Remark
Peak Output Power	$\pm 2.22\text{dB}$	Confidence levels of 95%
Power Spectral Density	$\pm 2.22\text{dB}$	Confidence levels of 95%
Bandwidth	$\pm 5\%$	Confidence levels of 95%
Conducted Spurious Emission	$\pm 2.77\text{dB}$	Confidence levels of 95%
Restricted Frequency Bands	$\pm 5\%$	Confidence levels of 95%
Radiated Emission	$\pm 2.95\text{dB}$	Confidence levels of 95%
Conducted Emission	$\pm 2.44\text{dB}$	Confidence levels of 95%

### 1.4. Testing Laboratory

<b>Laboratory Name:</b>	Shenzhen Morlab Communications Technology Co., Ltd.
<b>Laboratory Address:</b>	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
<b>Telephone:</b>	+86 755 36698555
<b>Facsimile:</b>	+86 755 36698525
<b>FCC Designation Number:</b>	CN1192
<b>FCC Test Firm Registration Number:</b>	226174





## 2. General Description

### 2.1. Information of Applicant and Manufacturer

<b>Applicant:</b>	Anker Innovations Limited
<b>Applicant Address:</b>	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong
<b>Manufacturer:</b>	Anker Innovations Limited
<b>Manufacturer Address:</b>	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong

### 2.2. Information of EUT

<b>Product Name:</b>	NEBULA Wireless Satellite Speaker	
<b>Sample No.:</b>	2#, 4#, 42#	
<b>Hardware Version:</b>	V02	
<b>Software Version:</b>	RX V1.1.54	
<b>Equipment Type:</b>	Bluetooth LE	
<b>Bluetooth Version:</b>	5.3	
<b>Modulation Type:</b>	GFSK	
<b>Data Rate:</b>	1Mbps, 2Mbps	
<b>Operating Frequency Range:</b>	2402MHz-2480MHz	
<b>Antenna Type:</b>	FPC Antenna	
<b>Antenna Gain:</b>	3.53dBi	
<b>Accessory Information:</b>	Battery	
	Brand Name:	N/A
	Model No.:	C0914K5
	Serial No.:	N/A
	Capacity:	6000mAh
	Rated Voltage:	7.2V
	Charge Limit:	8.4V
	Manufacturer:	Guangdong Pow-Tech New Power Co., Ltd.

**Note 1:** For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



### 2.3.Channel List of EUT

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

**Note 1:** The black bold channels were selected for test.

## 2.4. Test Configuration of EUT

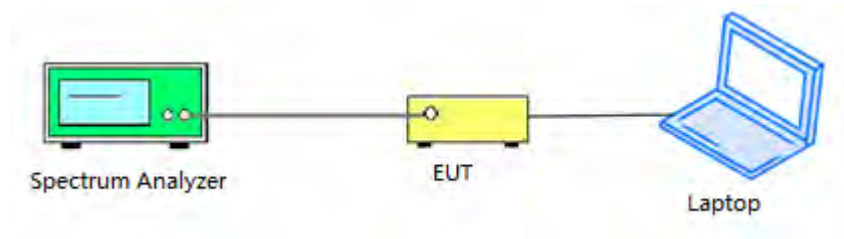
The EUT is controlled by dedicated software to transmit at the default maximum power level.

## 2.5. Test Conditions

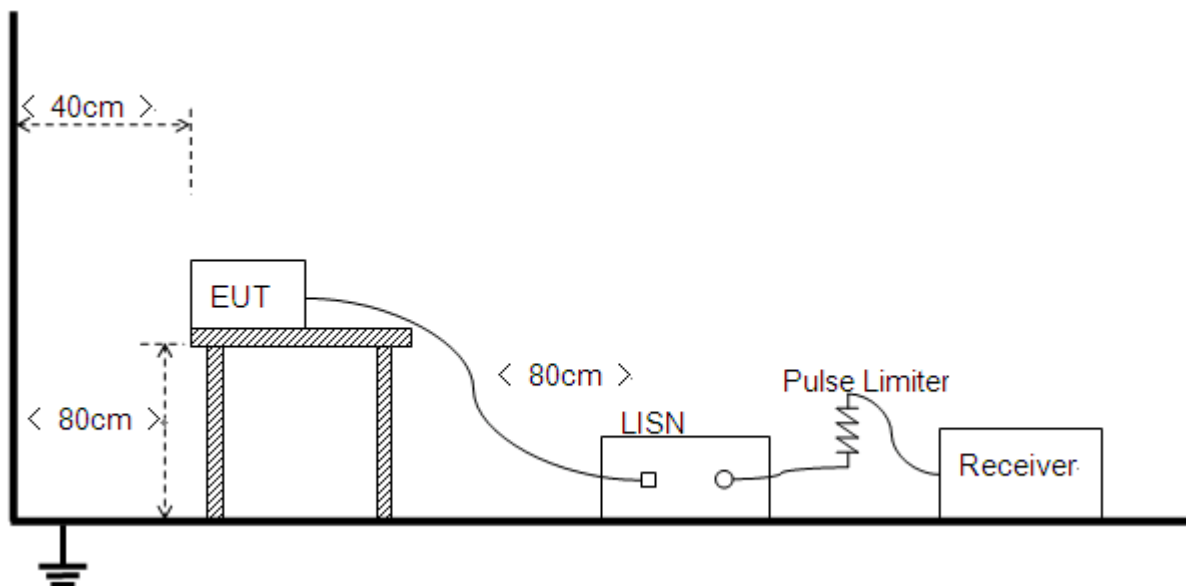
Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

## 2.6. Test Setup Layout Diagram

### 2.6.1. Conducted Measurement

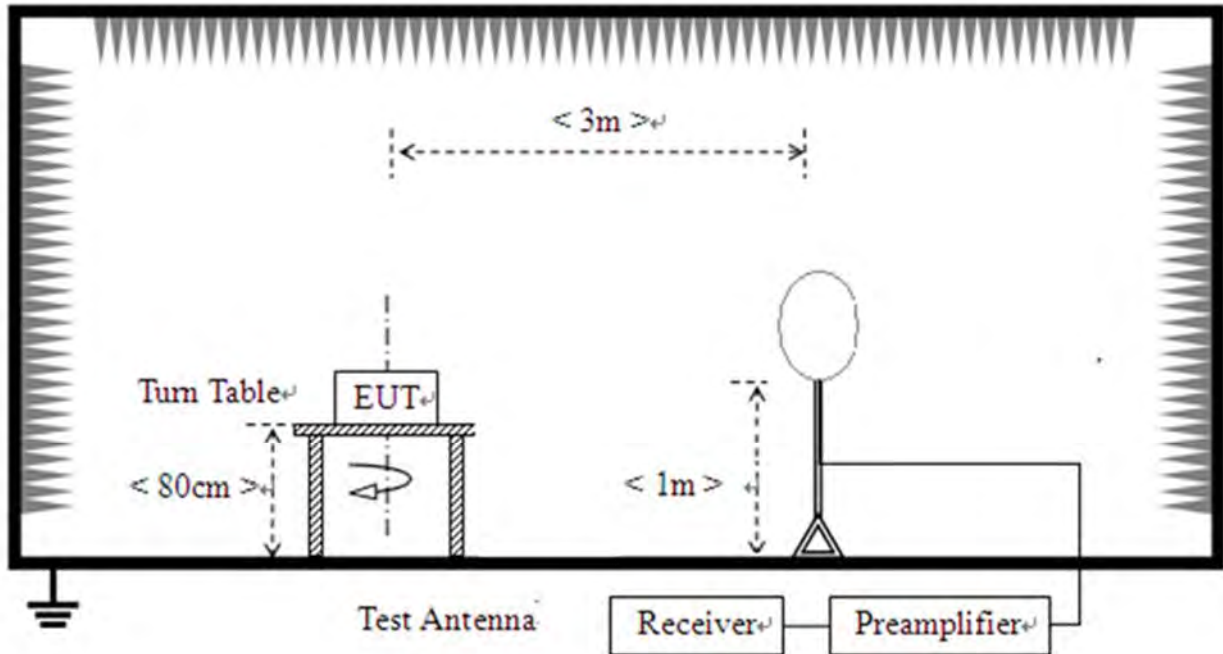


### 2.6.2. Conducted Emission Measurement

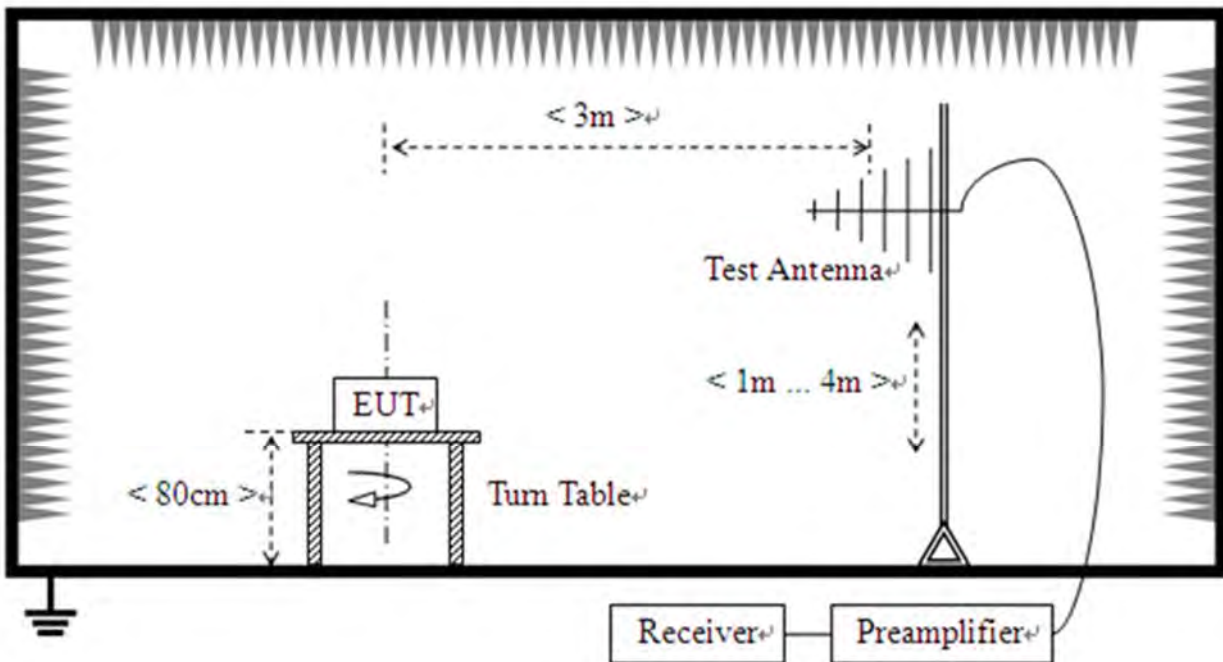


### 2.6.3.Radiation Measurement

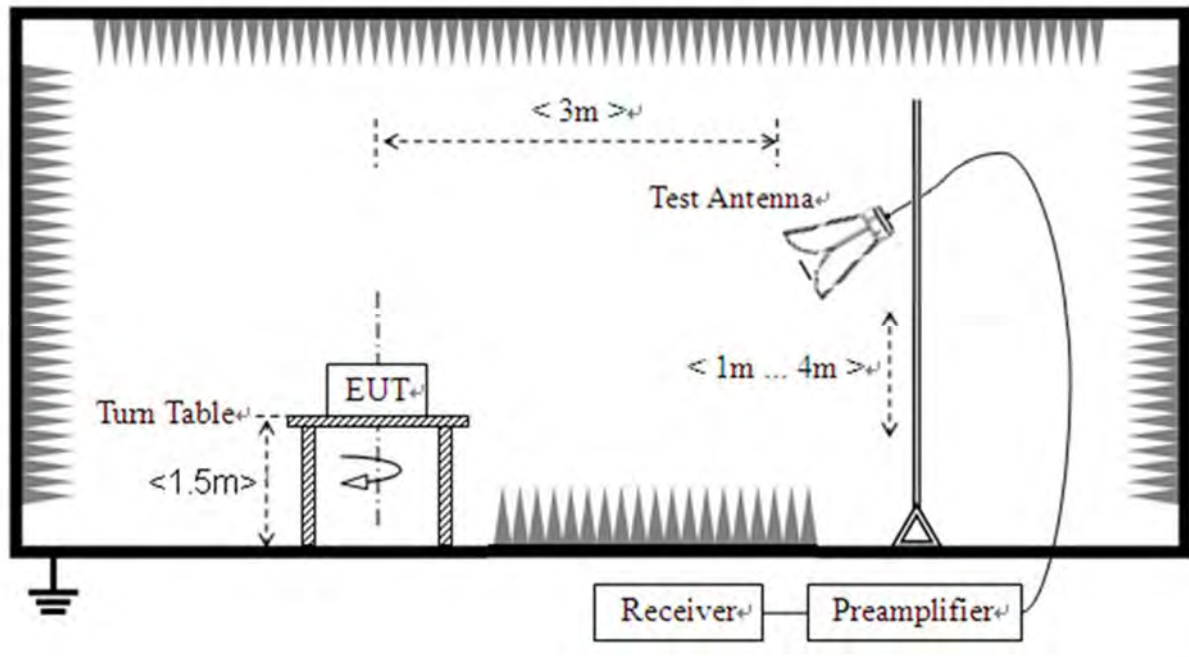
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz





## 3. Test Results

### 3.1. Antenna Requirement

#### 3.1.1. Requirement

According to FCC 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

#### 3.1.2. Test Result

Antenna location	Antenna Type	Coupling Method
<input checked="" type="checkbox"/> Internal <input type="checkbox"/> External	<input checked="" type="checkbox"/> FPC Antenna <input type="checkbox"/> Spring Antenna <input type="checkbox"/> Ceramic Antenna <input type="checkbox"/> Integrated Antenna <input type="checkbox"/> Dipole Antenna <input type="checkbox"/> PCB Antenna <input type="checkbox"/> PIFA Antenna <input type="checkbox"/> On-board Antenna	<input checked="" type="checkbox"/> I-PEX Connector <input type="checkbox"/> SMA Connector <input type="checkbox"/> RP-SMA Connector <input type="checkbox"/> Metal Shrapnel <input type="checkbox"/> Layout

## 3.2. Duty Cycle of Test Signal

### 3.2.1. Requirement

Preferably, all measurements of maximum conducted (average) output power will be performed with the EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%). When continuous operation cannot be realized, then the use of sweep triggering/signal gating techniques can be used to ensure that measurements are made only during transmissions at the maximum power control level. Such sweep triggering/signal gating techniques will require knowledge of the minimum transmission duration(T) over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Sweep triggering/signal gating techniques can then be used if the measurement/sweep time of the analyzer can be set such that it does not exceed T at any time that data are being acquired (i.e.,no transmitter OFF-time is to be considered).

When continuous transmission cannot be achieved and sweep triggering/signal gating cannot be implemented, alternative procedures are provided that can be used to measure the average power; however, they will require an additional measurement of the transmitter duty cycle (D). Within this sub clause, the duty cycle refers to the fraction of time over which the transmitter is ON and is transmitting at its maximum power control level. The duty cycle is considered to be constant if variations are less than  $\pm 2\%$ ; otherwise, the duty cycle is considered to be non constant.

### 3.2.2. Test Result

Refer to Annex A.1 in this report.



### **3.3. Maximum Peak Conducted Output Power**

#### **3.3.1. Requirement**

According to FCC section 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum peak conducted output power of the intentional radiator shall not exceed 1 Watt.

#### **3.3.2. Test Procedures**

KDB 558074 Section 8.3.1 was used in order to prove compliance.

#### **3.3.3. Test Setup Layout**

Refer to chapter 2.6.1 in this report.

#### **3.3.4. Test Result**

Refer to Annex A.2 in this report.





## **3.4. Maximum Average Conducted Output Power**

### **3.4.1. Requirement**

According to FCC section 15.247(b)(3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum average conducted output power of the intentional radiator shall not exceed 1 Watt.

### **3.4.2. Test Procedures**

KDB 558074 Section 8.3.2 was used in order to prove compliance.

### **3.4.3. Test Setup Layout**

Refer to chapter 2.6.1 in this report.

### **3.4.4. Test Result**

Refer to Annex A.3 in this report.



## 3.5.6 dB Bandwidth

### 3.5.1.Requirement

According to FCC section 15.247(a) (2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz.

### 3.5.1.Test Procedures

The steps for the first option are as follows:

- a) Set analyzer center frequency to channel center frequency
- b) Set RBW to 100kHz
- c) Set VBW to 300kHz
- d) Detector = peak.
- e) Trace mode = max hold
- f) Sweep time = auto couple
- g) Allow the trace to fully stabilize
- h) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

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 in 11.8.1 (i.e.,  $RBW = 100\text{ kHz}$ ,  $VBW \geq 3 \times RBW$ , and 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  $\geq 6\text{ dB}$ .

### 3.5.2.Test Setup Layout

Refer to chapter 2.6.1 in this report.

### 3.5.3.Test Result

Refer to Annex A.4 in this report.



## **3.6. Conducted Spurious Emissions and Band Edge**

### **3.6.1. Requirement**

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.

### **3.6.2. Test Procedures**

KDB 558074 Section 8.5 and 8.7 was used in order to prove compliance.

### **3.6.3. Test Setup Layout**

Refer to chapter 2.6.1 in this report.

### **3.6.4. Test Result**

Refer to Annex A.5 and A.6 in this report.



## **3.7. Power Spectral Density**

### **3.7.1. Requirement**

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### **3.7.2. Test Procedures**

The measured power spectral density was calculated by the reading of the spectrum analyzer and calibration. Following is the test procedure for PSD test:

- a) Set analyzer center frequency to channel center frequency
- b) Set span to 1.5 times DTS
- c) Set RBW to 3kHz
- d) Set VBW to 10kHz
- e) Detector = peak
- f) Sweep time = auto couple
- g) Trace mode = max hold
- h) Allow trace to fully stabilize
- i) Use the peak marker function to determine the maximum amplitude level within the RBW

### **3.7.3. Test Setup Layout**

Refer to chapter 2.6.1 in this report.

### **3.7.4. Test Result**

Refer to Annex A.7 in this report.

## 3.8. Conducted Emission

### 3.8.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dB $\mu$ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

Note:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

### 3.8.2. Test Procedures

The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.

### 3.8.3. Test Setup Layout

Refer to chapter 2.6.2 in this report.

### 3.8.4. Test Result

Refer to Annex A.8 in this report.



## **3.9. Restricted Frequency Bands**

### **3.9.1. Requirement**

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. In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

### **3.9.2. Test Procedures**

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for  $f \geq 1\text{GHz}$ , 100 kHz for  $f < 1\text{GHz}$

VBW = 3 MHz

Sweep = auto

Detector function = peak/average

Trace = max hold

Allow the trace to stabilize

### **3.9.3. Test Setup Layout**

Refer to chapter 2.6.3 in this report.

### **3.9.4. Test Result**

Refer to Annex A.9 in this report.

## 3.10. Radiated Emission

### 3.10.1.Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ( $\mu\text{V}/\text{m}$ )	Measurement Distance (m)
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

**Note1:** For above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

**Note2:**For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).



### **3.10.2.Test Procedures**

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

### **3.10.3.Test Setup Layout**

Refer to chapter 2.6.3 in this report.

### **3.10.4.Test Result**

Refer to Annex A.10 in this report.





## Annex A Test Data and Result

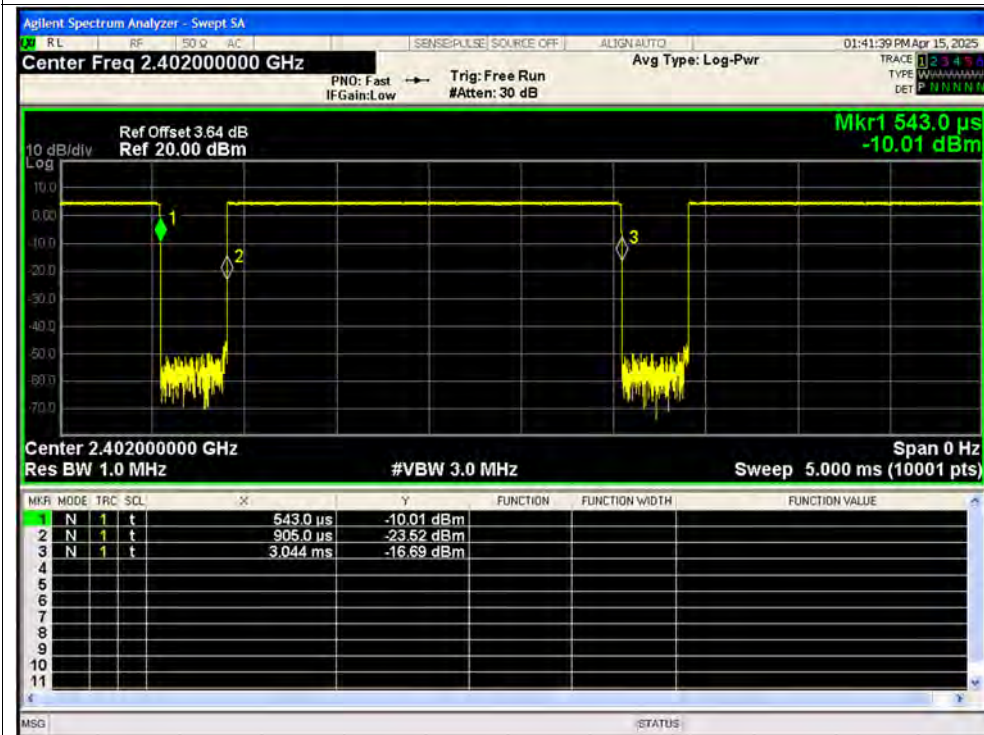
### A.1. Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	85.52	0.68	0.47
NVNT	BLE 1M	2440	Ant1	85.54	0.68	0
NVNT	BLE 1M	2480	Ant1	85.52	0.68	0.47
NVNT	BLE 2M	2402	Ant1	86.6	0.62	0.92
NVNT	BLE 2M	2440	Ant1	86.56	0.63	0.92
NVNT	BLE 2M	2480	Ant1	86.56	0.63	0.92

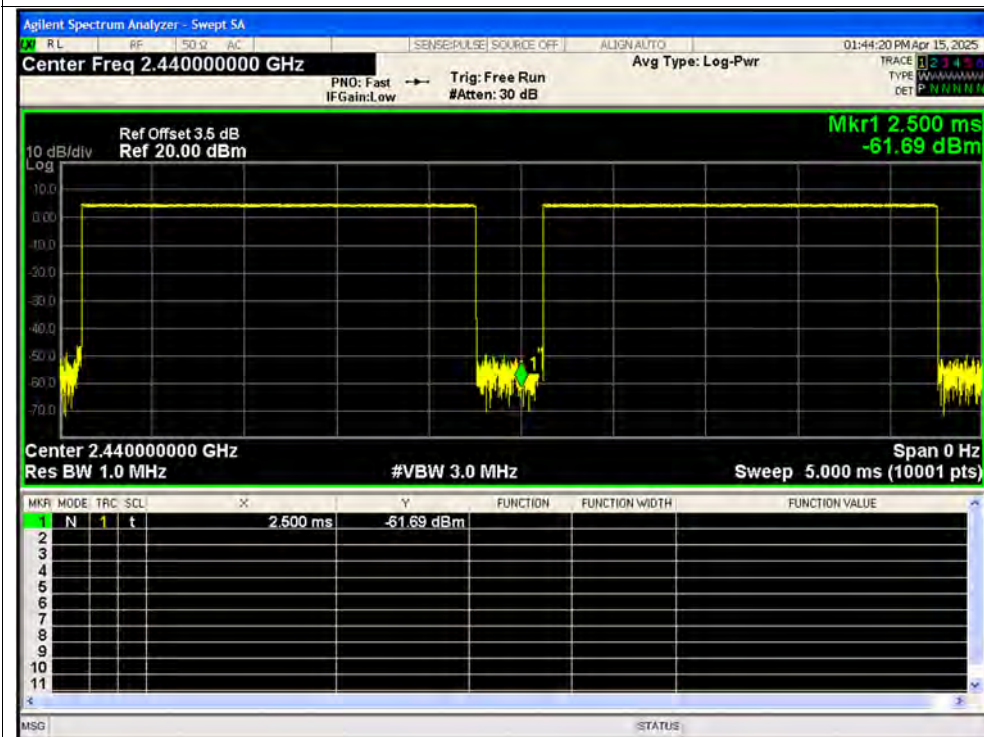


## Test Graphs

## Duty Cycle NVNT BLE 1M 2402MHz Ant1

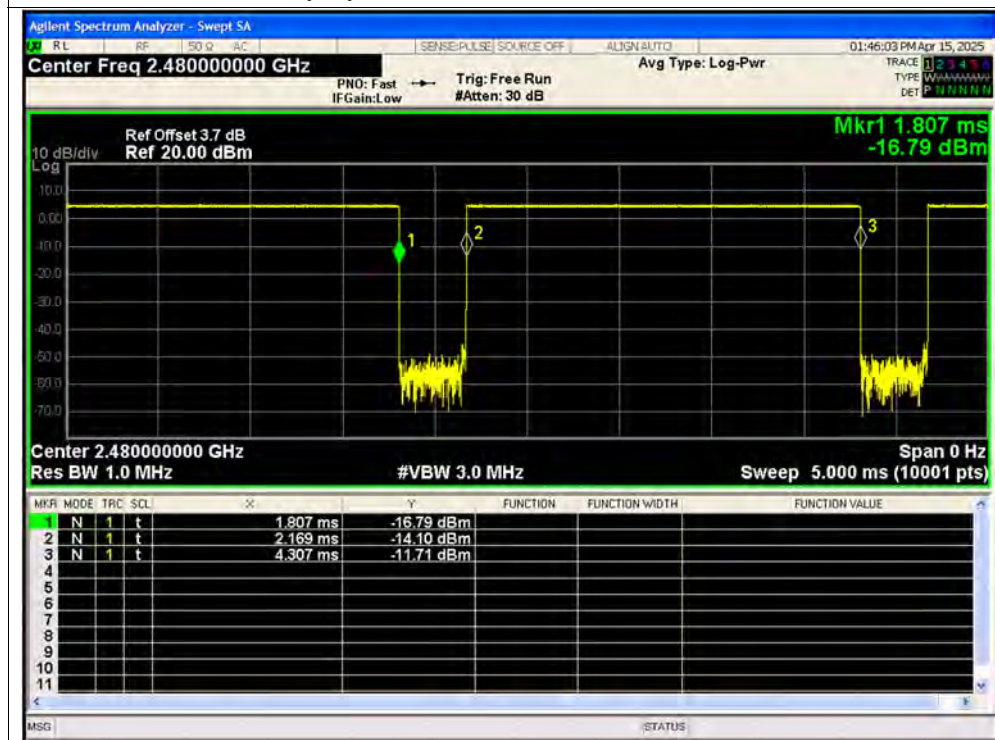


## Duty Cycle NVNT BLE 1M 2440MHz Ant1

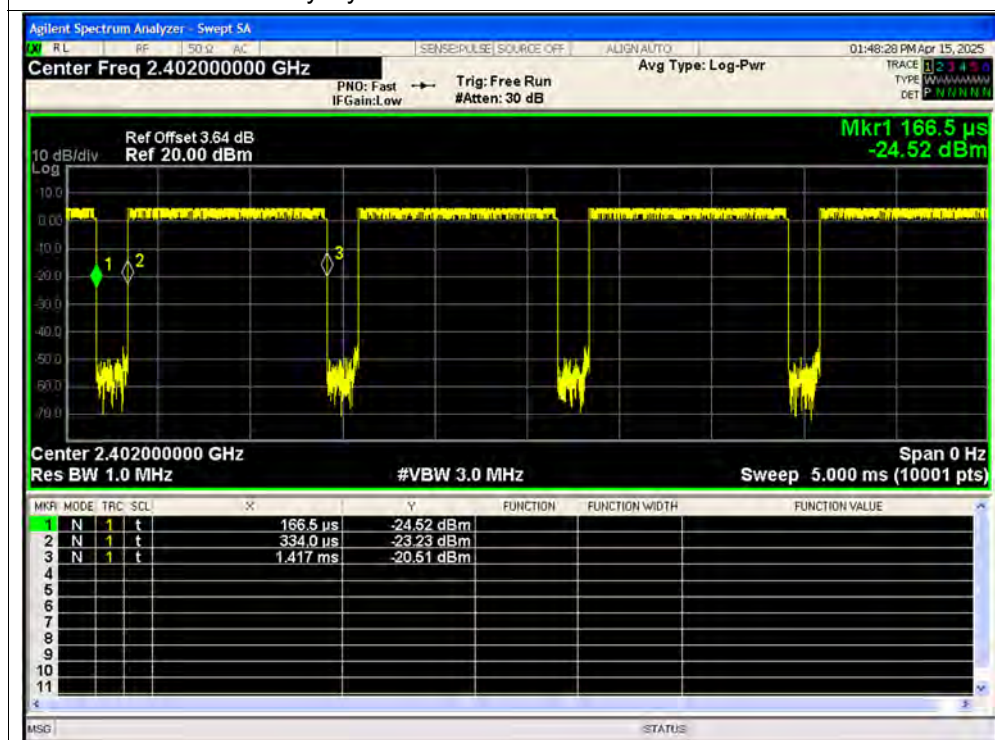




## Duty Cycle NVNT BLE 1M 2480MHz Ant1



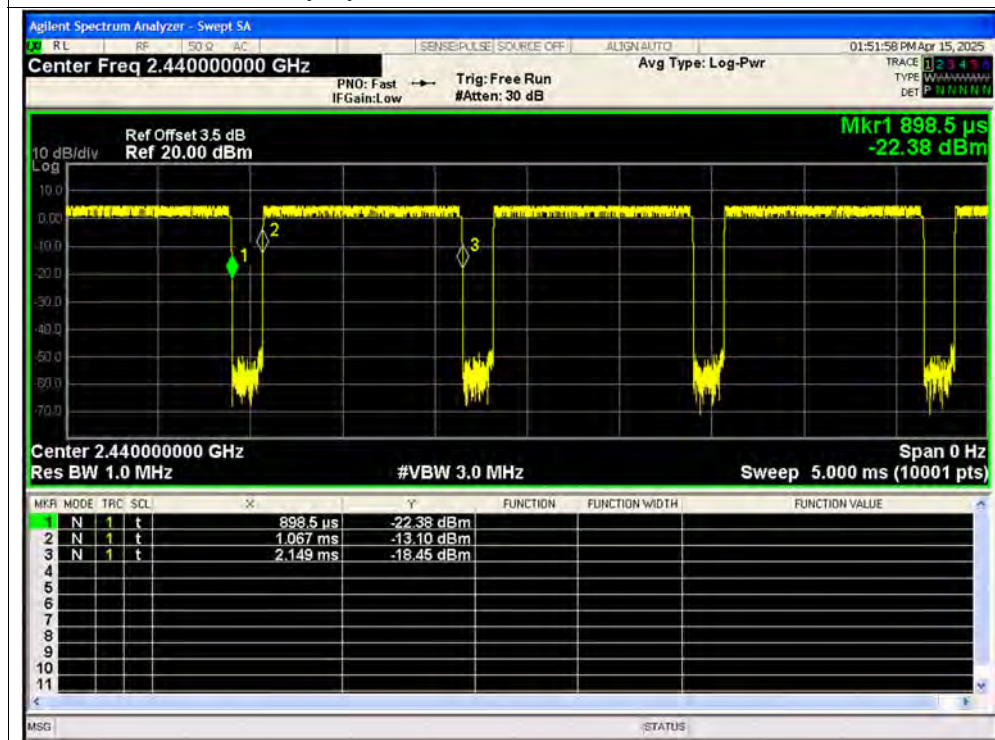
## Duty Cycle NVNT BLE 2M 2402MHz Ant1



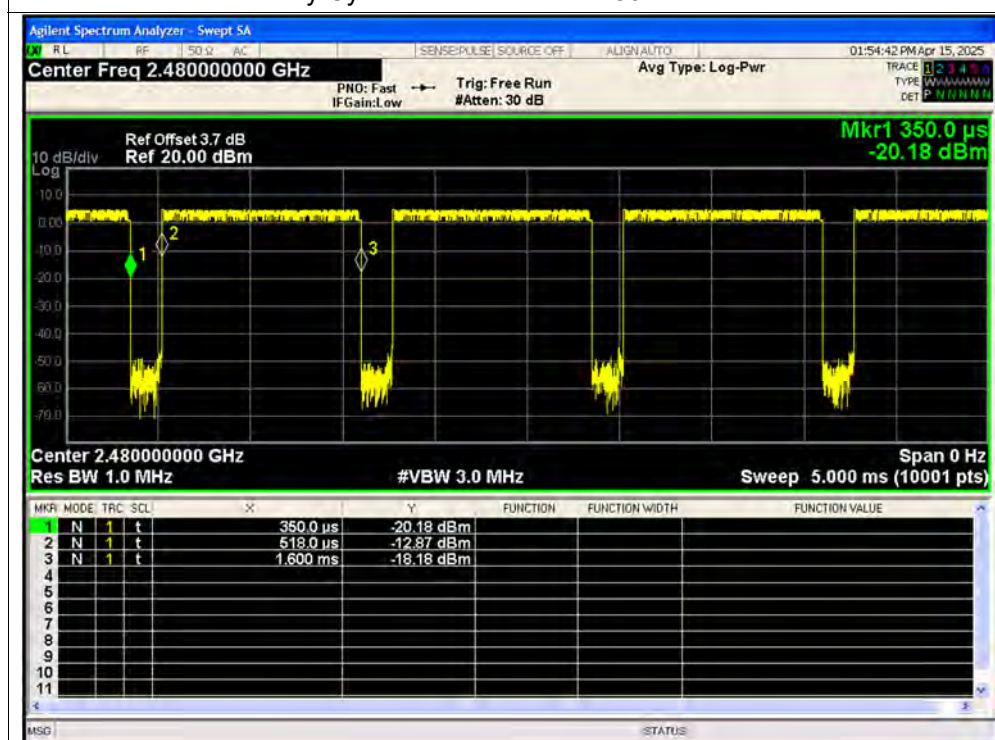




## Duty Cycle NVNT BLE 2M 2440MHz Ant1



## Duty Cycle NVNT BLE 2M 2480MHz Ant1



**A.2. Maximum Peak Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	5.12	0	5.12	0.00325	30	Pass
NVNT	BLE 1M	2440	Ant1	5	0	5	0.00316	30	Pass
NVNT	BLE 1M	2480	Ant1	5.26	0	5.26	0.00336	30	Pass
NVNT	BLE 2M	2402	Ant1	4.98	0	4.98	0.00315	30	Pass
NVNT	BLE 2M	2440	Ant1	4.83	0	4.83	0.00304	30	Pass
NVNT	BLE 2M	2480	Ant1	5.06	0	5.06	0.00321	30	Pass

## Test Graphs

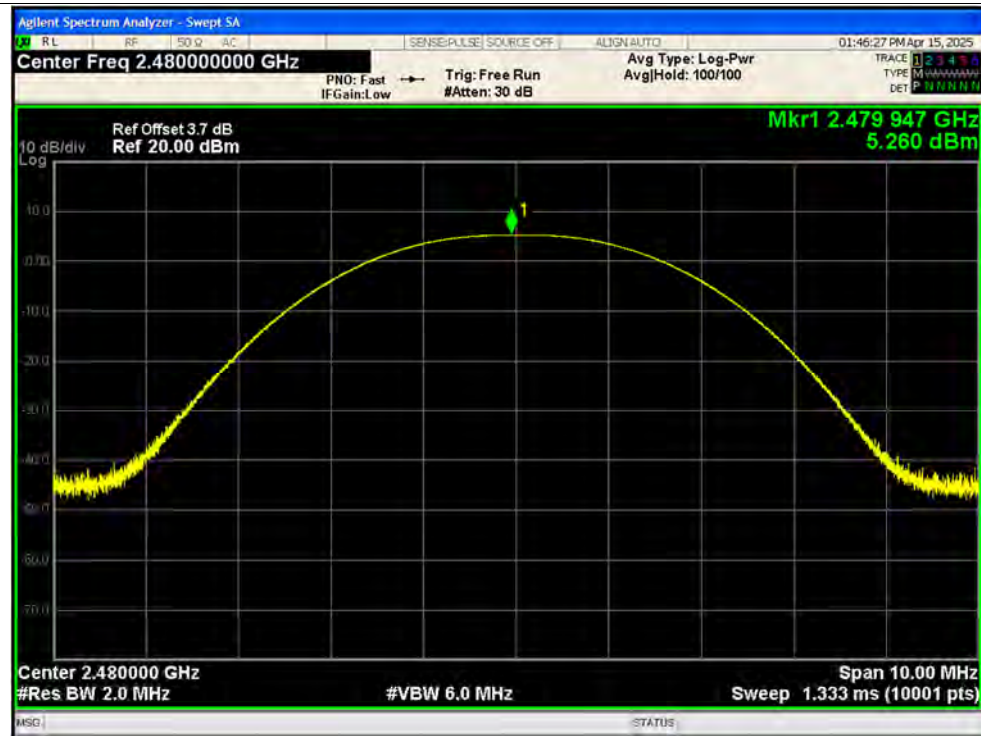
## Peak Power NVNT BLE 1M 2402MHz Ant1



## Peak Power NVNT BLE 1M 2440MHz Ant1



### Peak Power NVNT BLE 1M 2480MHz Ant1

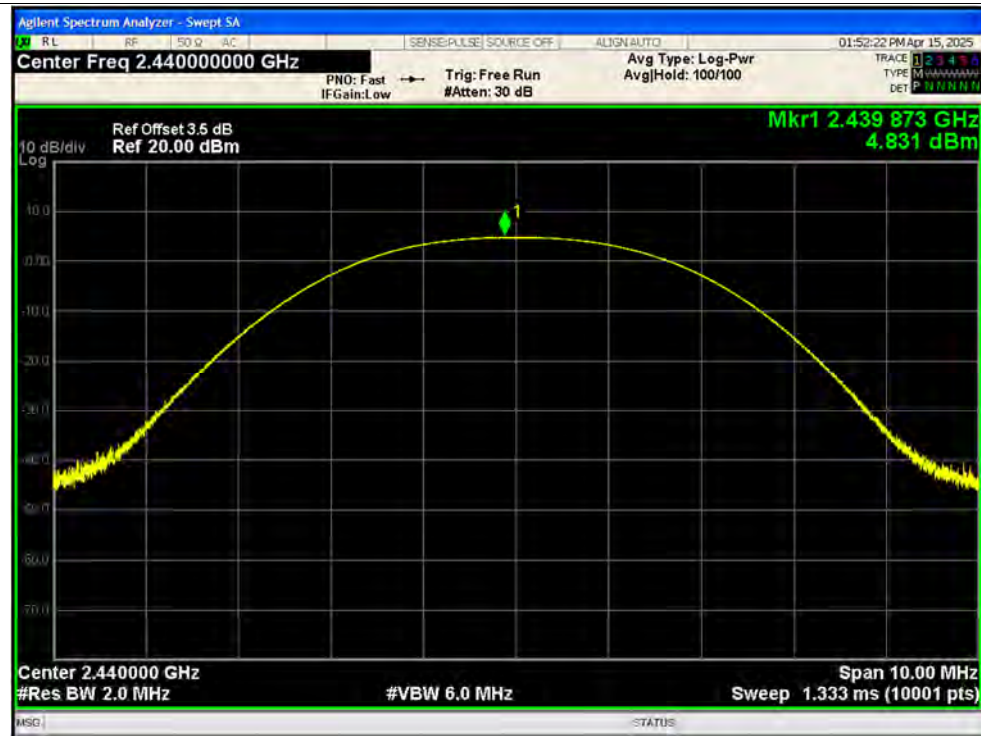


### Peak Power NVNT BLE 2M 2402MHz Ant1





### Peak Power NVNT BLE 2M 2440MHz Ant1



### Peak Power NVNT BLE 2M 2480MHz Ant1





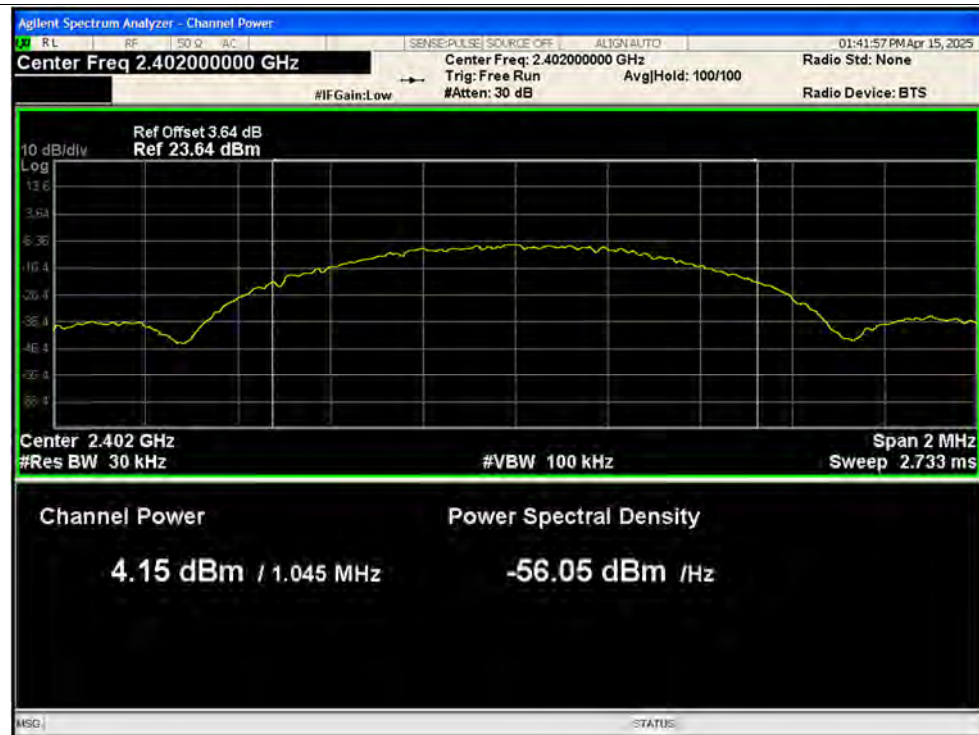
**A.3. Maximum Average Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	4.15	0.68	4.83	0.00304	30	Pass
NVNT	BLE 1M	2440	Ant1	4.17	0.68	4.85	0.00305	30	Pass
NVNT	BLE 1M	2480	Ant1	4.23	0.68	4.91	0.0031	30	Pass
NVNT	BLE 2M	2402	Ant1	3.68	0.62	4.3	0.00269	30	Pass
NVNT	BLE 2M	2440	Ant1	3.58	0.63	4.21	0.00264	30	Pass
NVNT	BLE 2M	2480	Ant1	3.75	0.63	4.38	0.00274	30	Pass

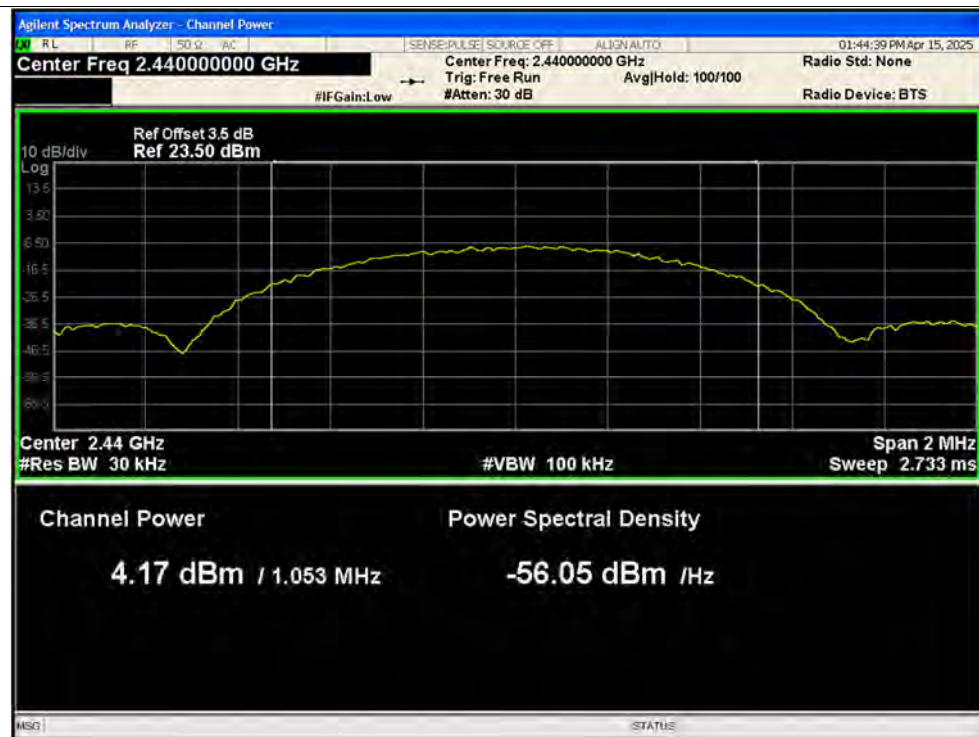


## Test Graphs

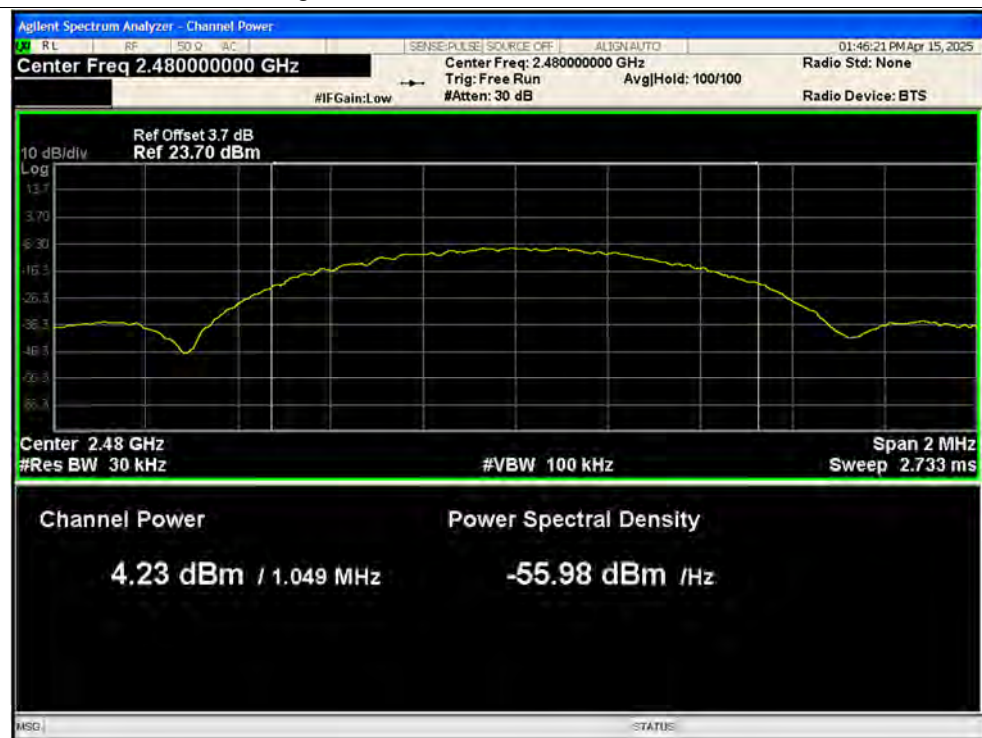
## Average Power NVNT BLE 1M 2402MHz Ant1



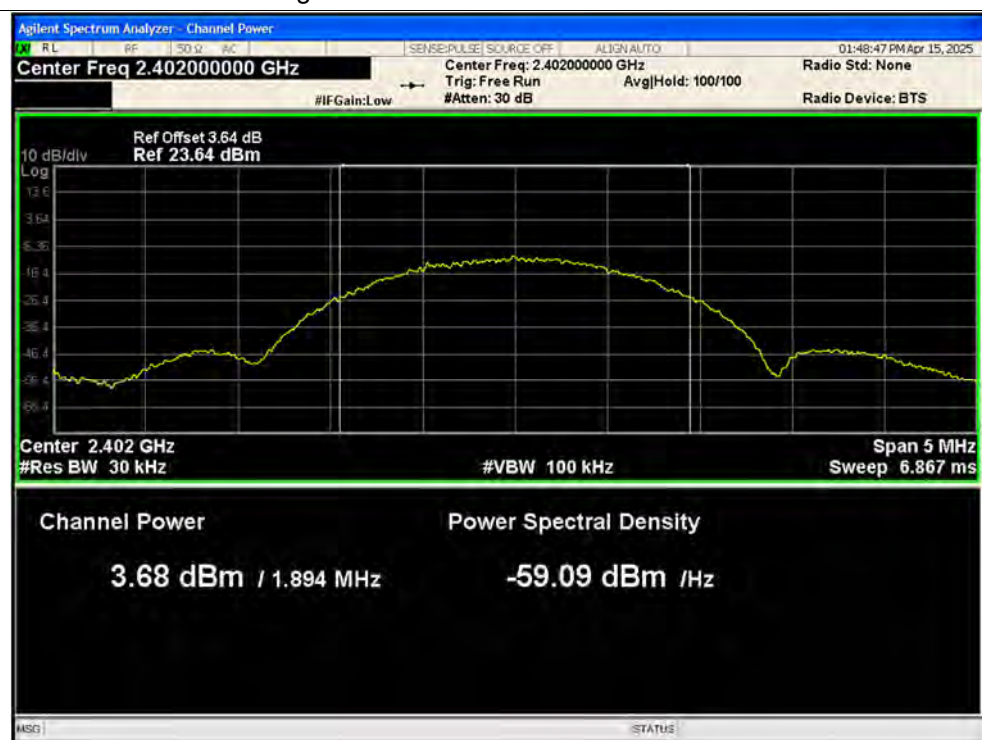
## Average Power NVNT BLE 1M 2440MHz Ant1



## Average Power NVNT BLE 1M 2480MHz Ant1

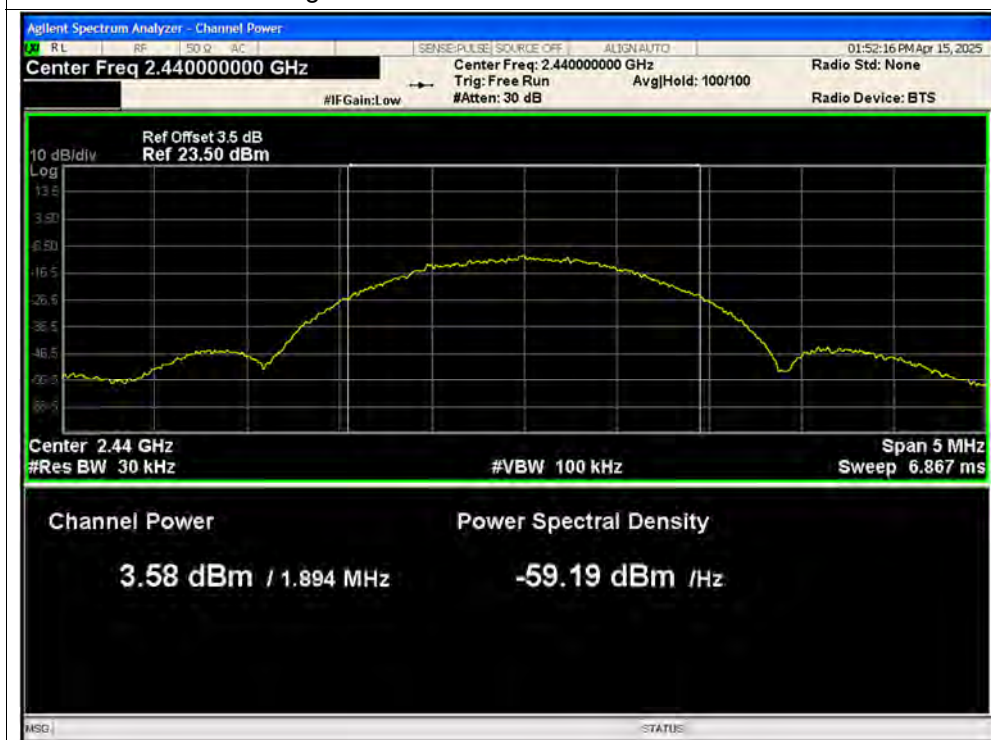


## Average Power NVNT BLE 2M 2402MHz Ant1

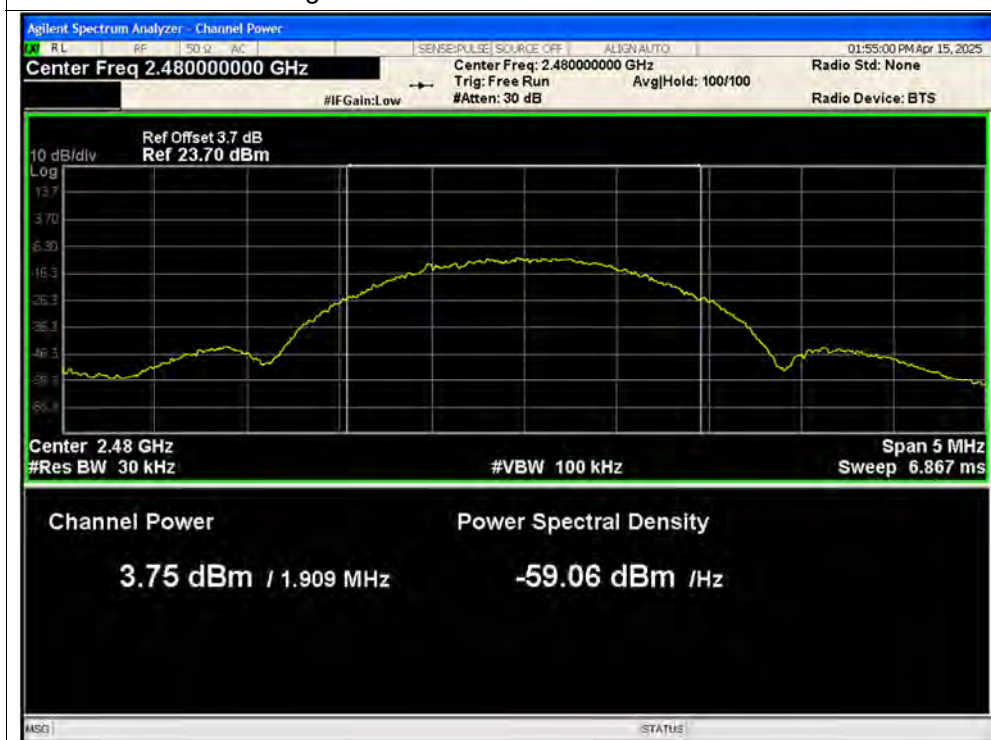




## Average Power NVNT BLE 2M 2440MHz Ant1



## Average Power NVNT BLE 2M 2480MHz Ant1



**A.4. 6 dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.6586	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.6855	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.6669	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.124	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.116	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.129	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





**A.5. Conducted Spurious Emissions**

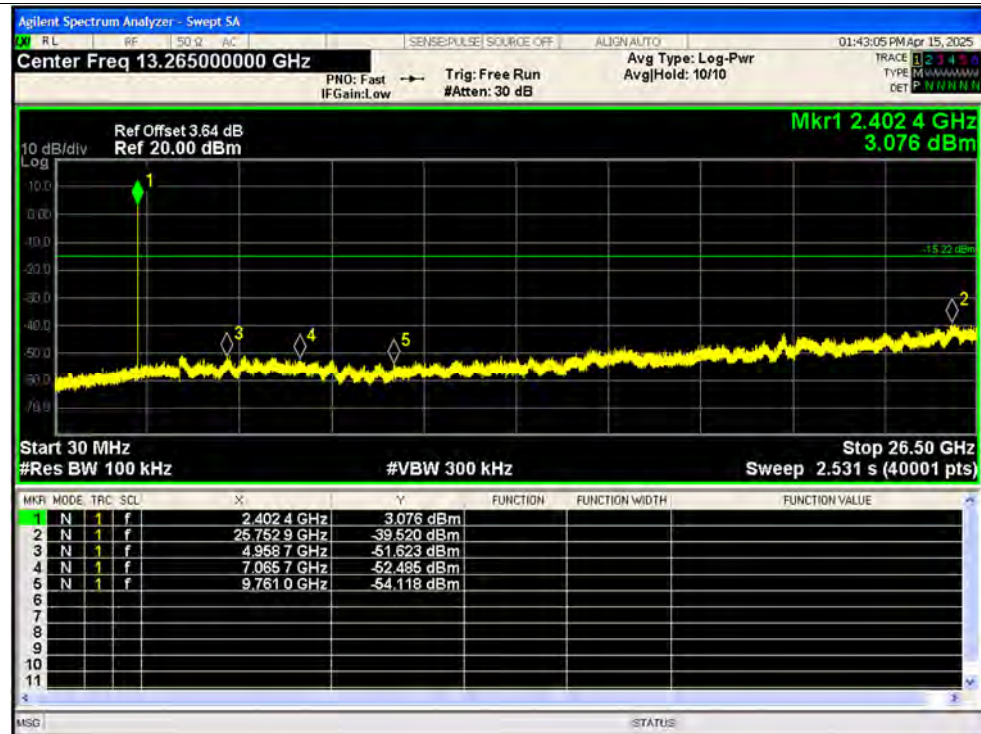
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-44.29	-20	Pass
NVNT	BLE 1M	2440	Ant1	-44.63	-20	Pass
NVNT	BLE 1M	2480	Ant1	-43.96	-20	Pass
NVNT	BLE 2M	2402	Ant1	-43.5	-20	Pass
NVNT	BLE 2M	2440	Ant1	-42.62	-20	Pass
NVNT	BLE 2M	2480	Ant1	-43.49	-20	Pass

## Test Graphs

## Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



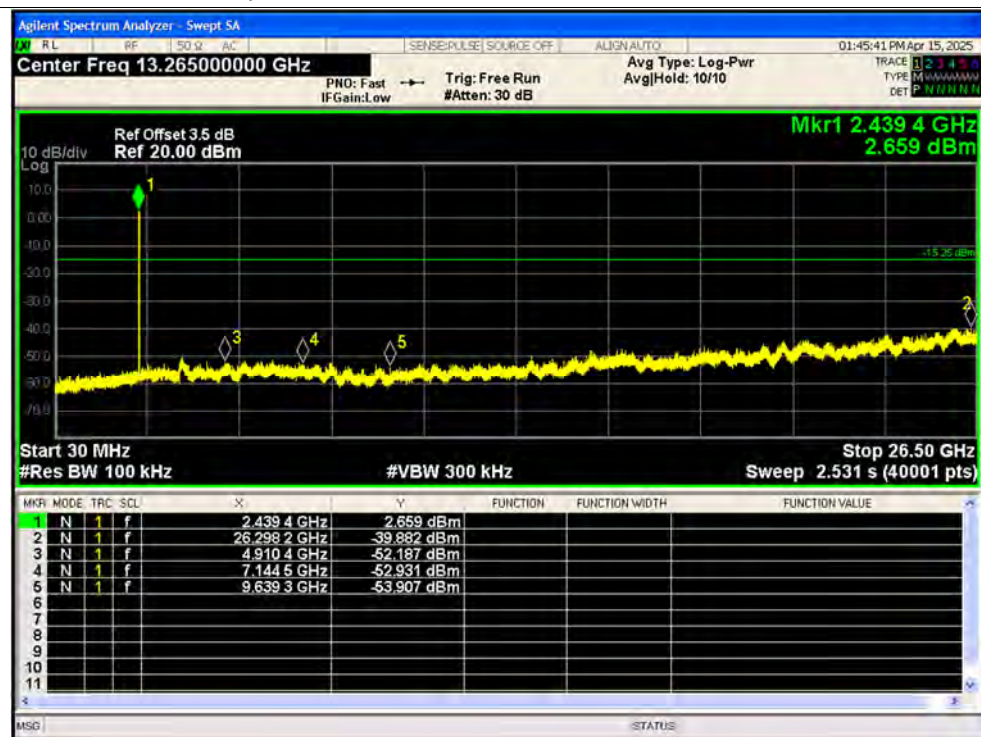
## Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



## Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



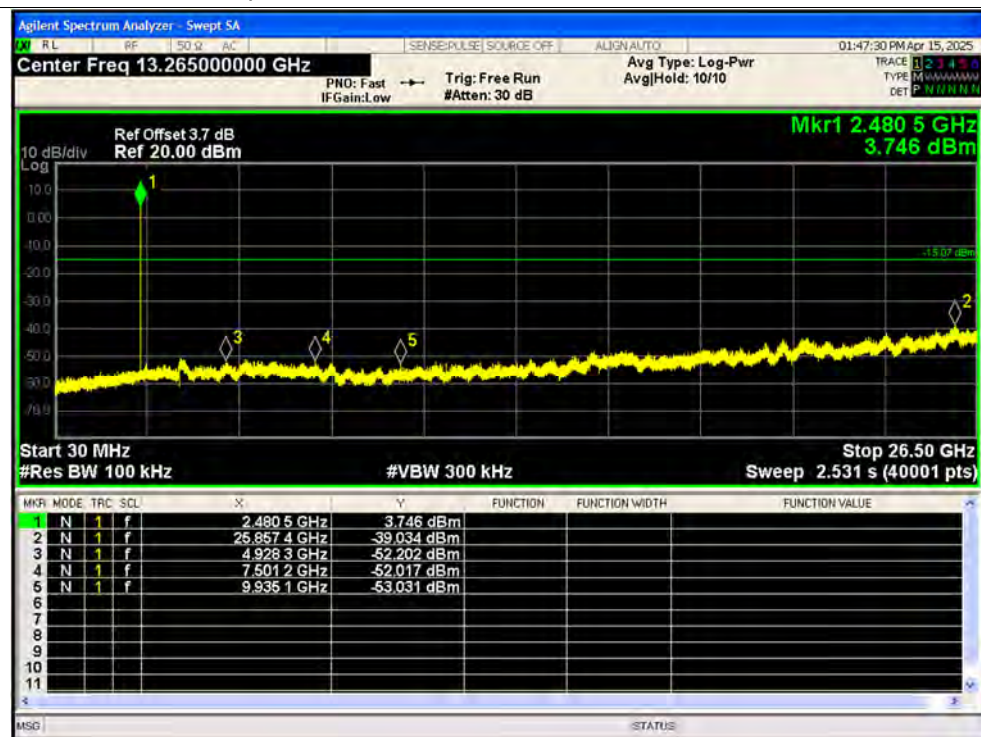
## Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



## Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



## Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission

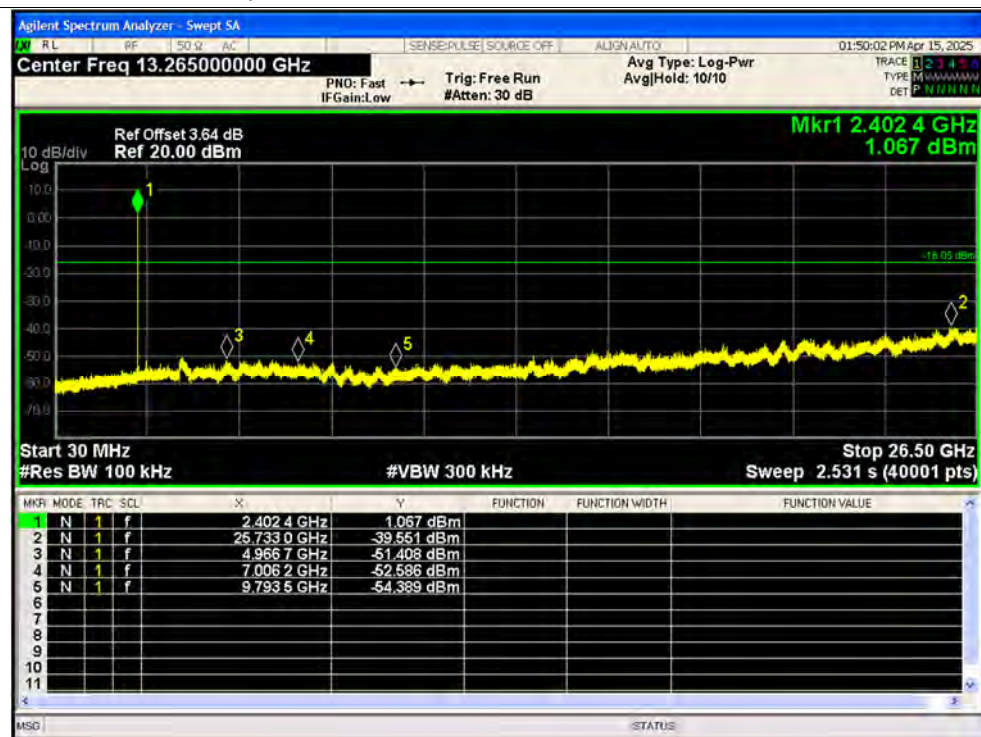




## Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



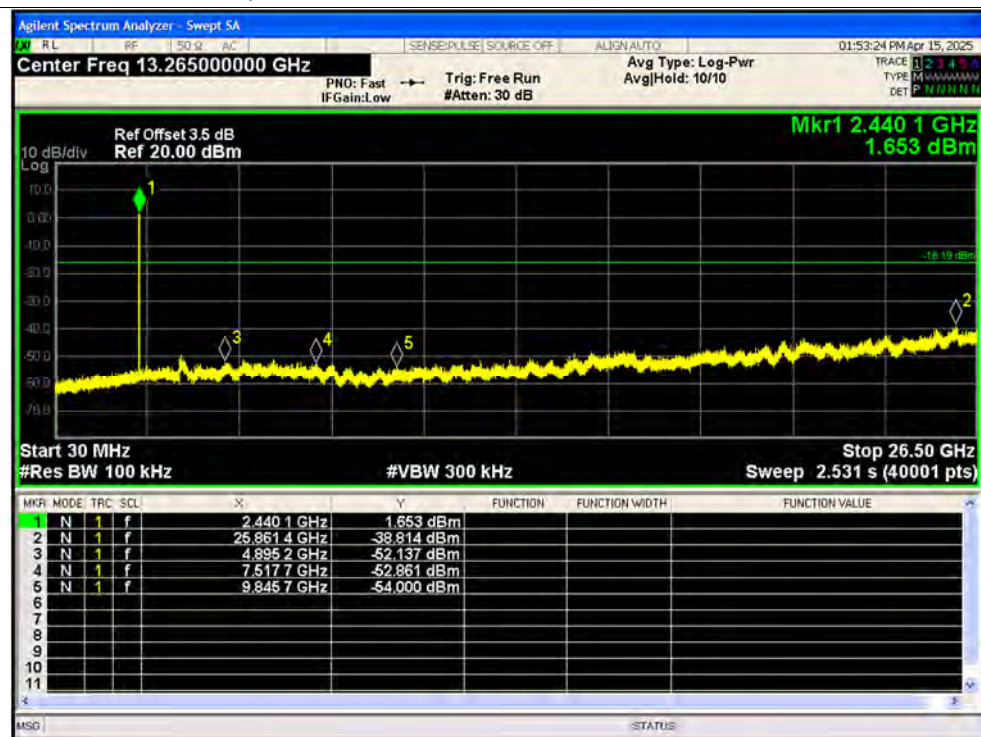
## Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



## Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



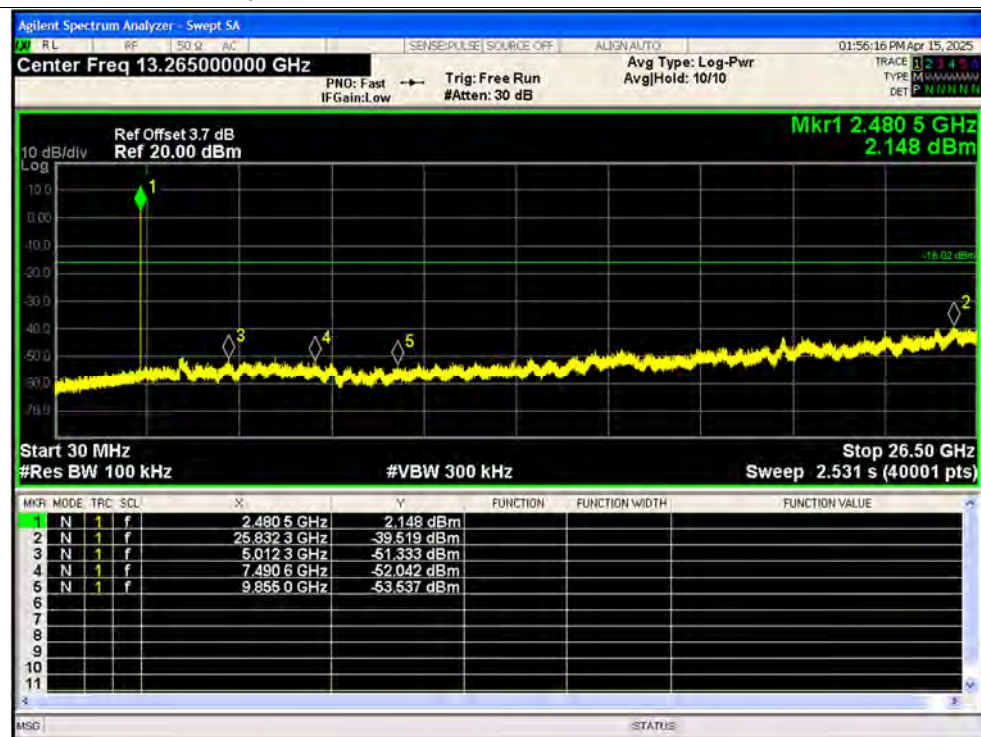
## Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



## Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



## Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission





REPORT No.: SZ25040043W01

#### A.6. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-53.42	-20	Pass
NVNT	BLE 1M	2480	Ant1	-58.75	-20	Pass
NVNT	BLE 2M	2402	Ant1	-38.78	-20	Pass
NVNT	BLE 2M	2480	Ant1	-59.38	-20	Pass

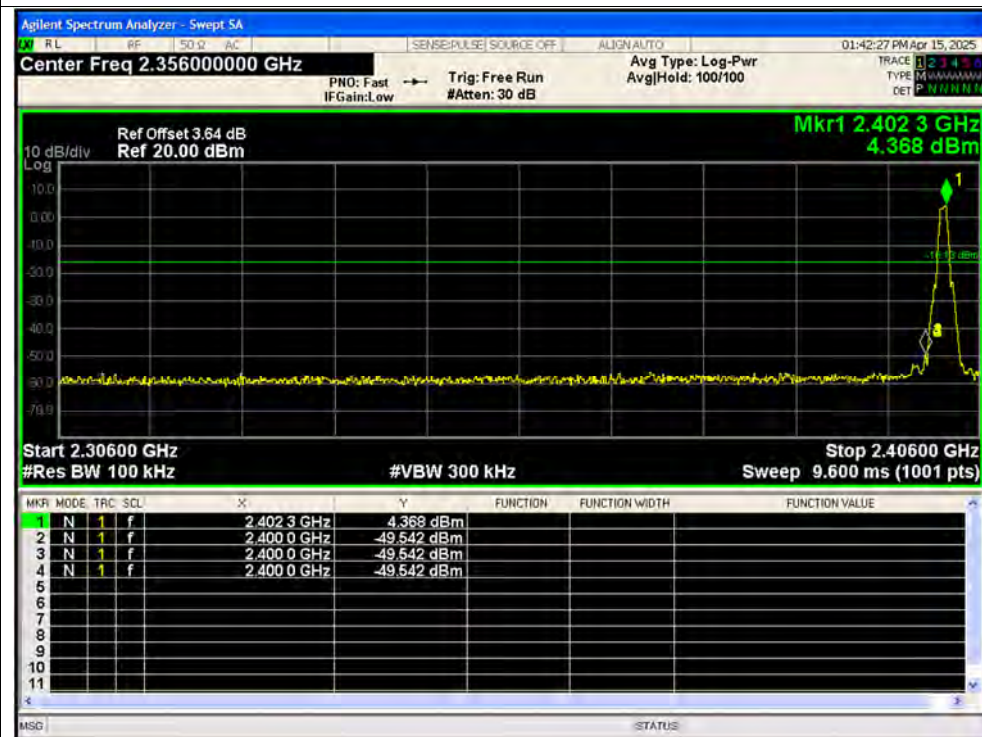


## Test Graphs

## Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



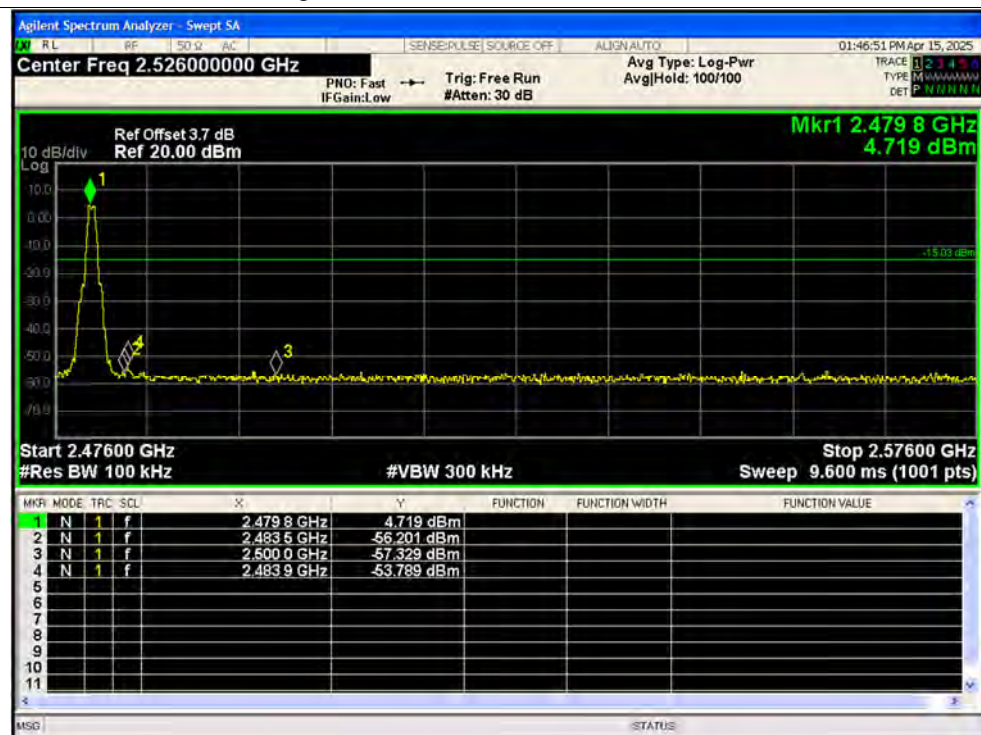
## Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



### Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



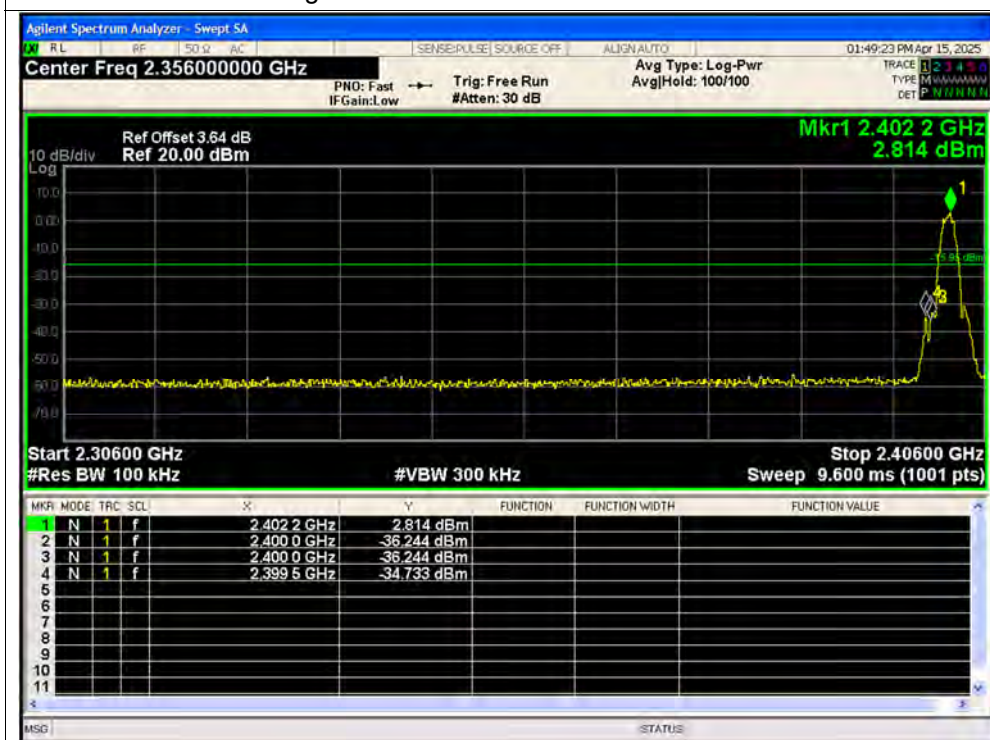
### Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



### Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



### Band Edge NVNT BLE 2M 2402MHz Ant1 Emission

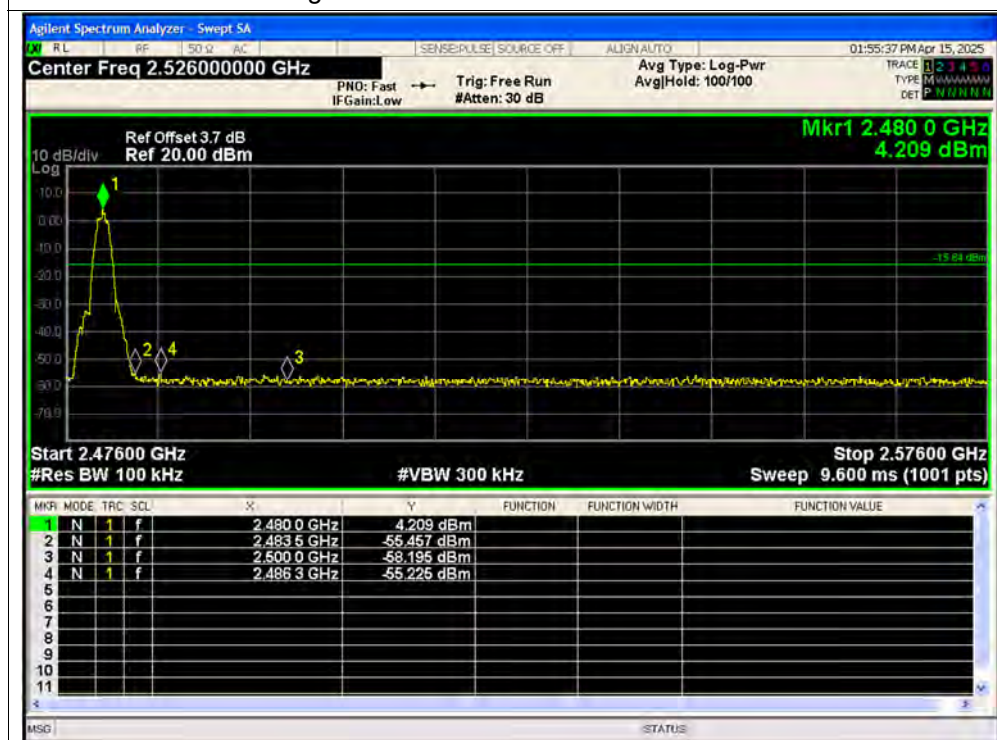




### Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



### Band Edge NVNT BLE 2M 2480MHz Ant1 Emission



**A.7. Power Spectral Density**

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-10.11	0	-10.11	8	Pass
NVNT	BLE 1M	2440	Ant1	-10.27	0	-10.27	8	Pass
NVNT	BLE 1M	2480	Ant1	-9.96	0	-9.96	8	Pass
NVNT	BLE 2M	2402	Ant1	-13.78	0	-13.78	8	Pass
NVNT	BLE 2M	2440	Ant1	-13.96	0	-13.96	8	Pass
NVNT	BLE 2M	2480	Ant1	-13.85	0	-13.85	8	Pass



## Test Graphs

## PSD NVNT BLE 1M 2402MHz Ant1



## PSD NVNT BLE 1M 2440MHz Ant1

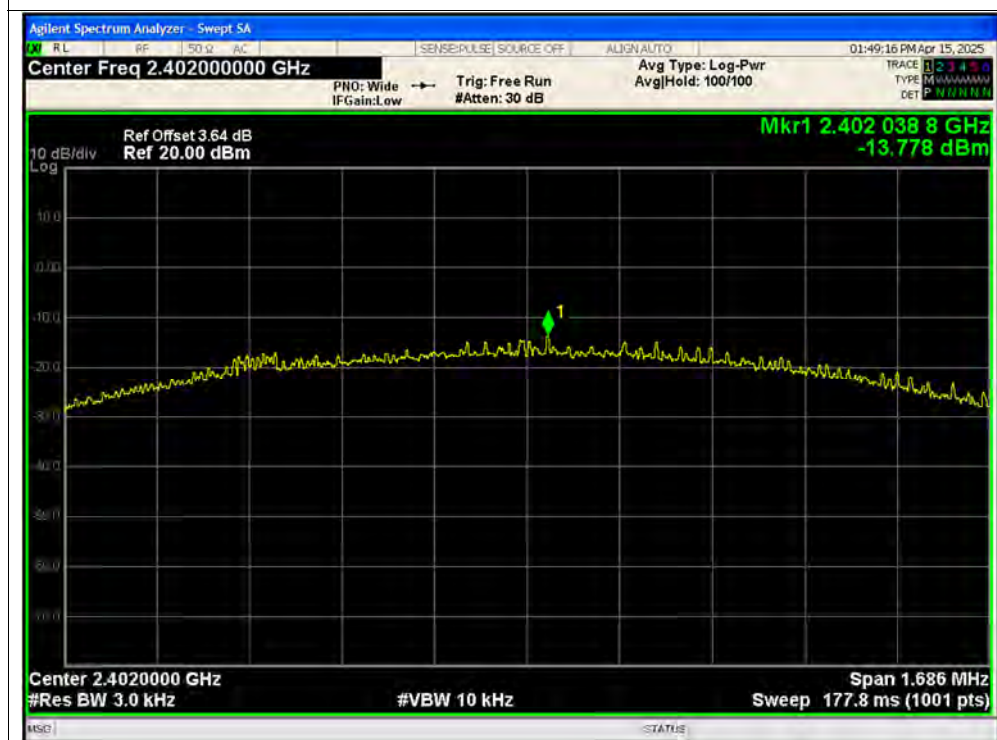




## PSD NVNT BLE 1M 2480MHz Ant1



## PSD NVNT BLE 2M 2402MHz Ant1





## PSD NVNT BLE 2M 2440MHz Ant1



## PSD NVNT BLE 2M 2480MHz Ant1





### A.8. Conducted Emission

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

**Note:** Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

#### A. Test Setup:

Test Mode: EUT+Microphone+Adapter+Charging cable+Projectort+Projector adapter+BLE Link

Test voltage: AC 120V/60Hz

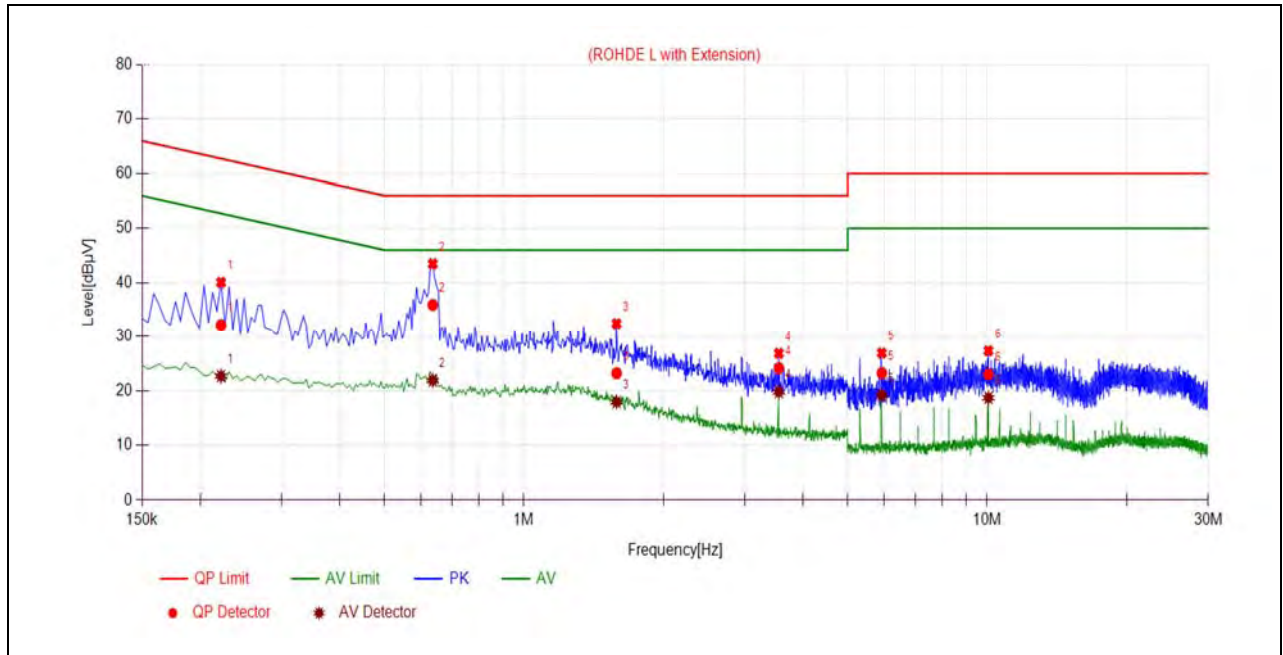
The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

$U_R$ : Receiver Reading

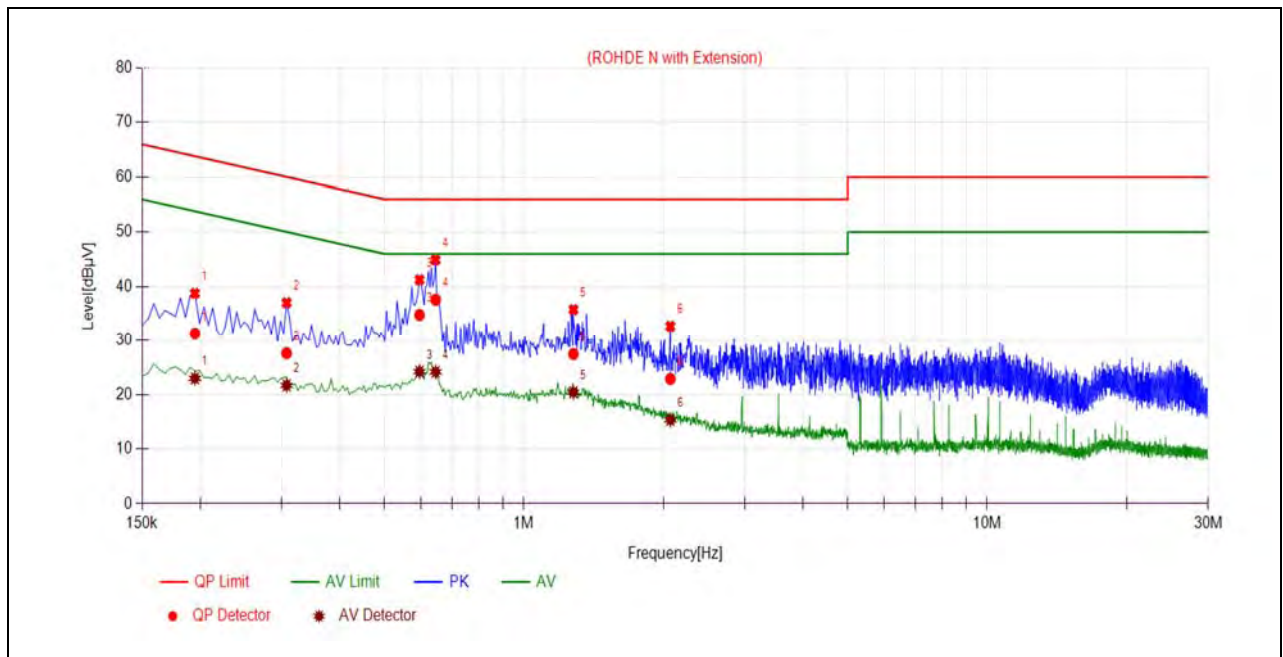
$A_{\text{Factor}}$ : Voltage division factor of LISN

## B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.2220	32.16	22.67	62.74	52.74	Line	PASS
2	0.6360	35.89	21.86	56.00	46.00		PASS
3	1.5856	23.18	17.89	56.00	46.00		PASS
4	3.5517	24.12	19.74	56.00	46.00		PASS
5	5.9240	23.22	19.13	60.00	50.00		PASS
6	10.0640	22.98	18.67	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1950	31.30	22.97	63.82	53.82	Neutral	PASS
2	0.3075	27.60	21.67	60.04	50.04		PASS
3	0.5954	34.79	24.20	56.00	46.00		PASS
4	0.6450	37.58	24.16	56.00	46.00		PASS
5	1.2795	27.45	20.41	56.00	46.00		PASS
6	2.0714	22.85	15.31	56.00	46.00		PASS

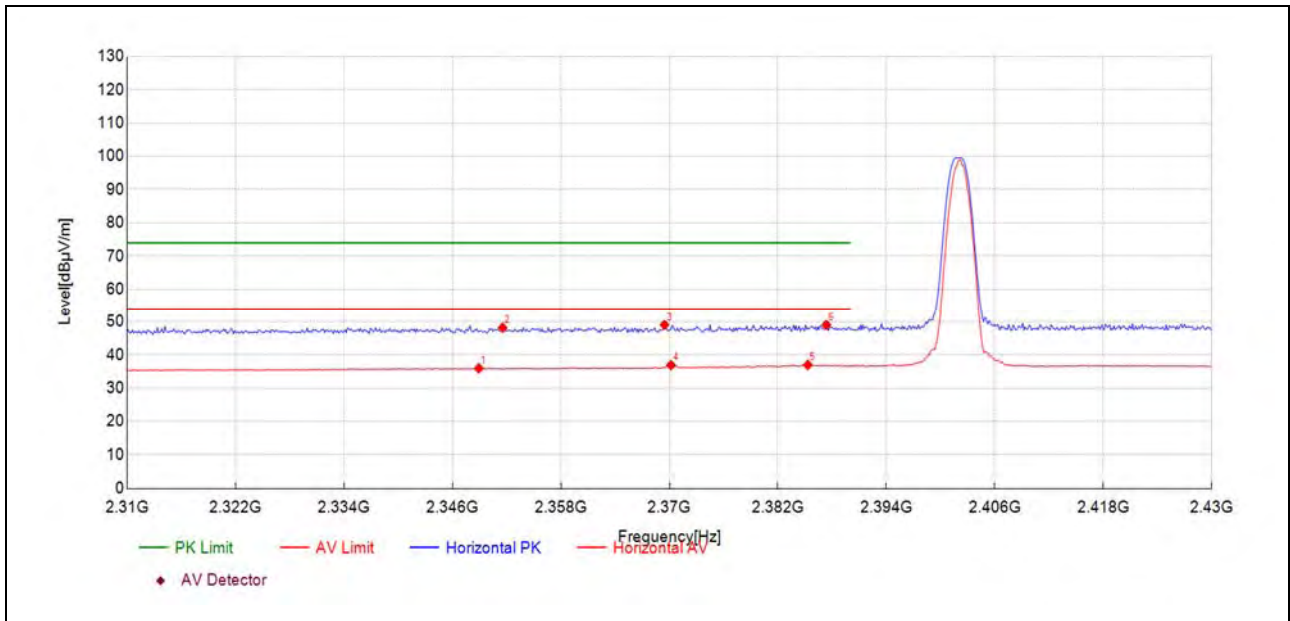


## A.9. Restricted Frequency Bands

**Note:** Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (Vertical) was recorded in this test report.

### 1Mbps

Plot for Channel 0

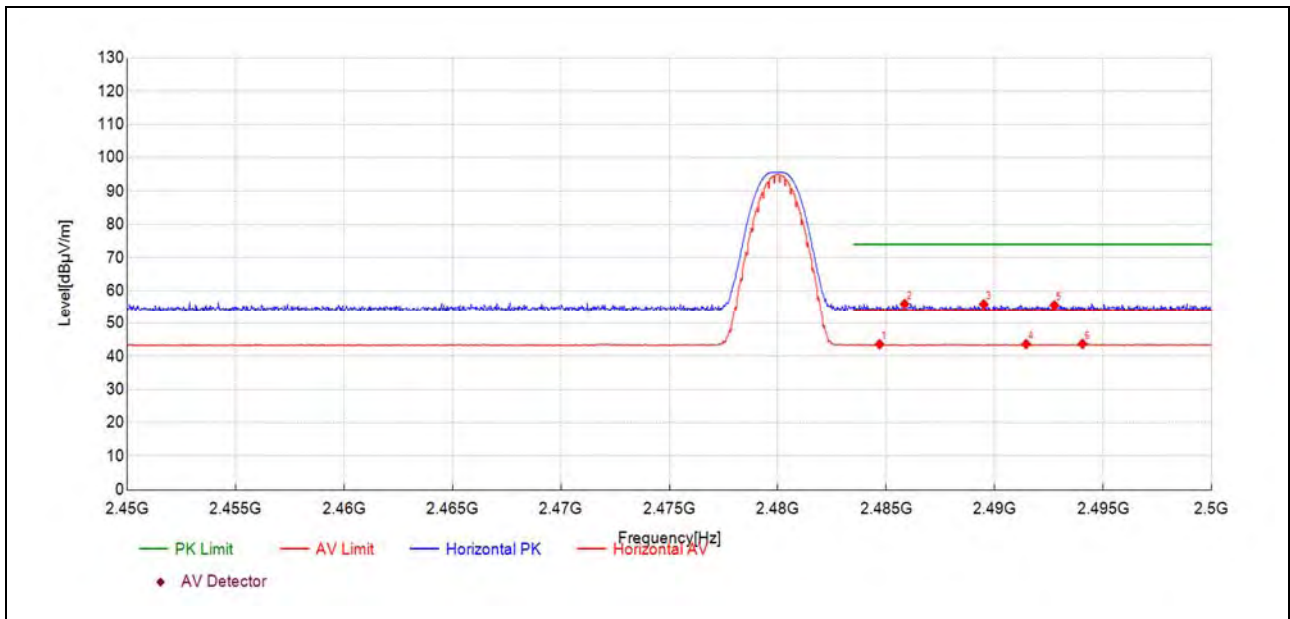


Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2348.92	3.6	35.98	32.390	54.00	18.02	150	188	AV	PASS
2351.56	15.8	48.16	32.400	74.00	25.84	150	197	PK	PASS
2369.46	16.6	49.03	32.470	74.00	24.97	150	216	PK	PASS
2370.18	4.5	36.93	32.470	54.00	17.07	150	216	AV	PASS
2385.32	4.4	36.96	32.530	54.00	17.04	150	216	AV	PASS
2387.36	16.5	49.02	32.530	74.00	24.98	150	248	PK	PASS





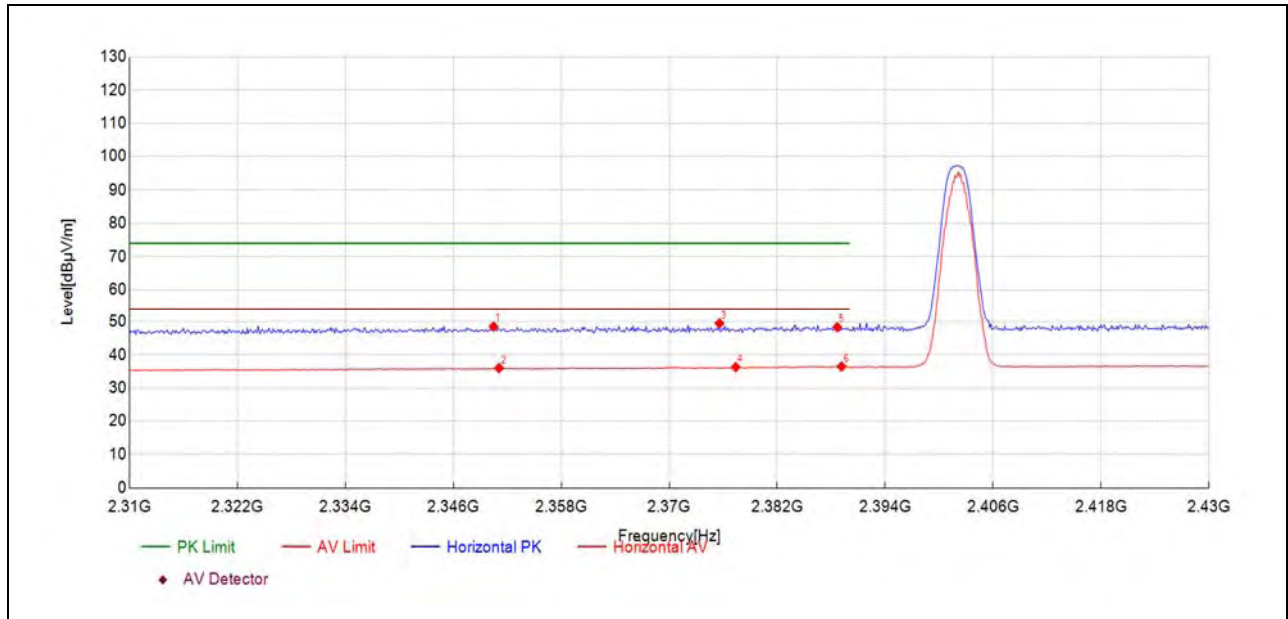
Plot for Channel 39



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2484.69	10.6	43.60	33.030	54.00	10.40	150	360	AV	PASS
2485.84	23.0	55.98	33.030	74.00	18.02	150	42	PK	PASS
2489.49	22.9	55.89	33.020	74.00	18.11	150	124	PK	PASS
2491.45	10.6	43.65	33.020	54.00	10.35	150	115	AV	PASS
2492.75	22.6	55.62	33.010	74.00	18.38	150	147	PK	PASS
2494.05	10.7	43.71	33.010	54.00	10.29	150	261	AV	PASS

**2Mbps**

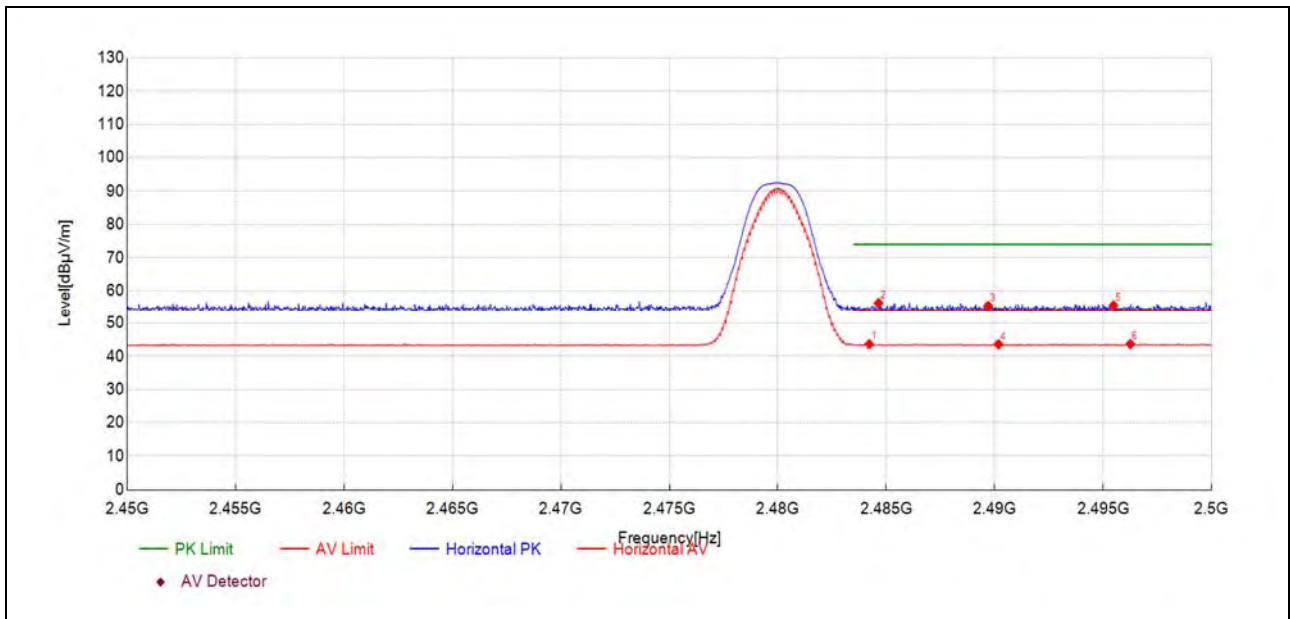
## Plot for Channel 0



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2350.48	16.2	48.55	32.400	74.00	25.45	150	349	PK	PASS
2351.08	3.6	36.01	32.400	54.00	17.99	150	243	AV	PASS
2375.59	17.0	49.51	32.490	74.00	24.49	150	25	PK	PASS
2377.39	3.8	36.31	32.490	54.00	17.69	150	203	AV	PASS
2388.68	15.8	48.37	32.540	74.00	25.63	150	1	PK	PASS
2389.16	4.0	36.49	32.540	54.00	17.51	150	222	AV	PASS



Plot for Channel 39



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2484.22	10.6	43.61	33.030	54.00	10.39	150	53	AV	PASS
2484.64	23.2	56.25	33.030	74.00	17.75	150	216	PK	PASS
2489.69	22.4	55.41	33.020	74.00	18.59	150	359	PK	PASS
2490.17	10.6	43.59	33.020	54.00	10.41	150	278	AV	PASS
2495.47	22.6	55.56	33.010	74.00	18.44	150	340	PK	PASS
2496.25	10.7	43.66	33.010	54.00	10.34	150	289	AV	PASS



#### A.10. Radiated Emission

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

$A_T$ : Total correction Factor except Antenna

$U_R$ : Receiver Reading

$G_{\text{preamp}}$ : Preamplifier Gain

$A_{\text{Factor}}$ : Antenna Factor at 3m

During the test, the total correction Factor  $A_T$  and  $A_{\text{Factor}}$  were built in test software.

**Note1:** All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

**Note2:** For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

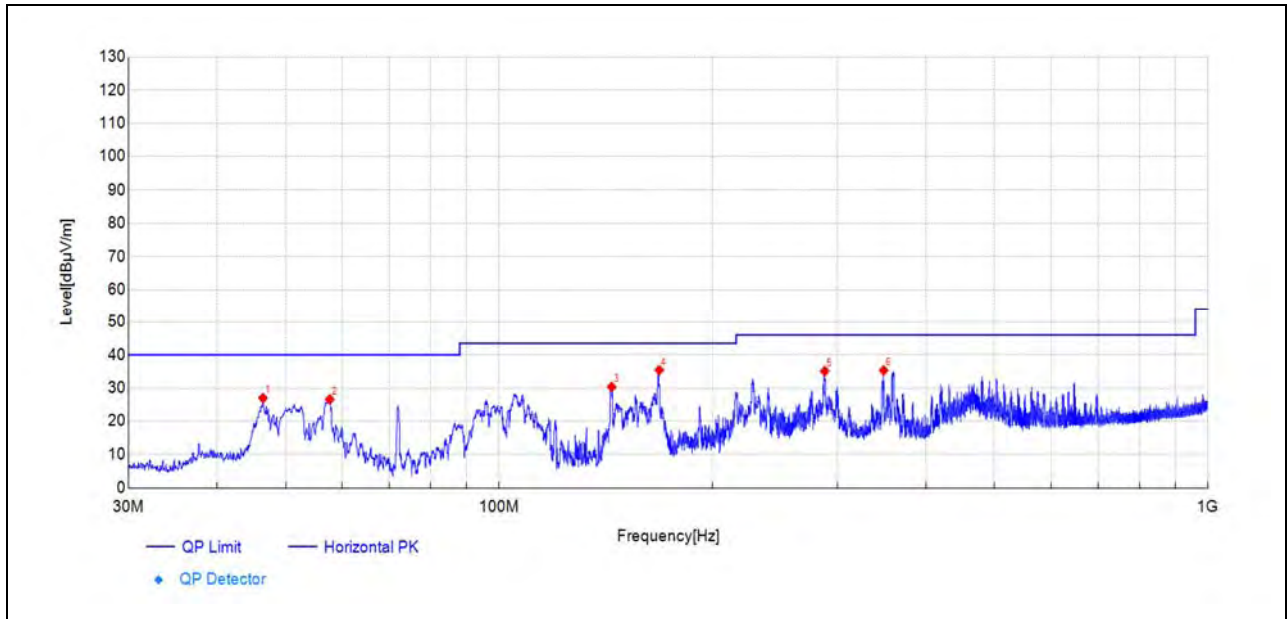
**Note3:** For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

**Note 4:** All test modes were considered and evaluated respectively by performing full test, only the worst data were recorded.



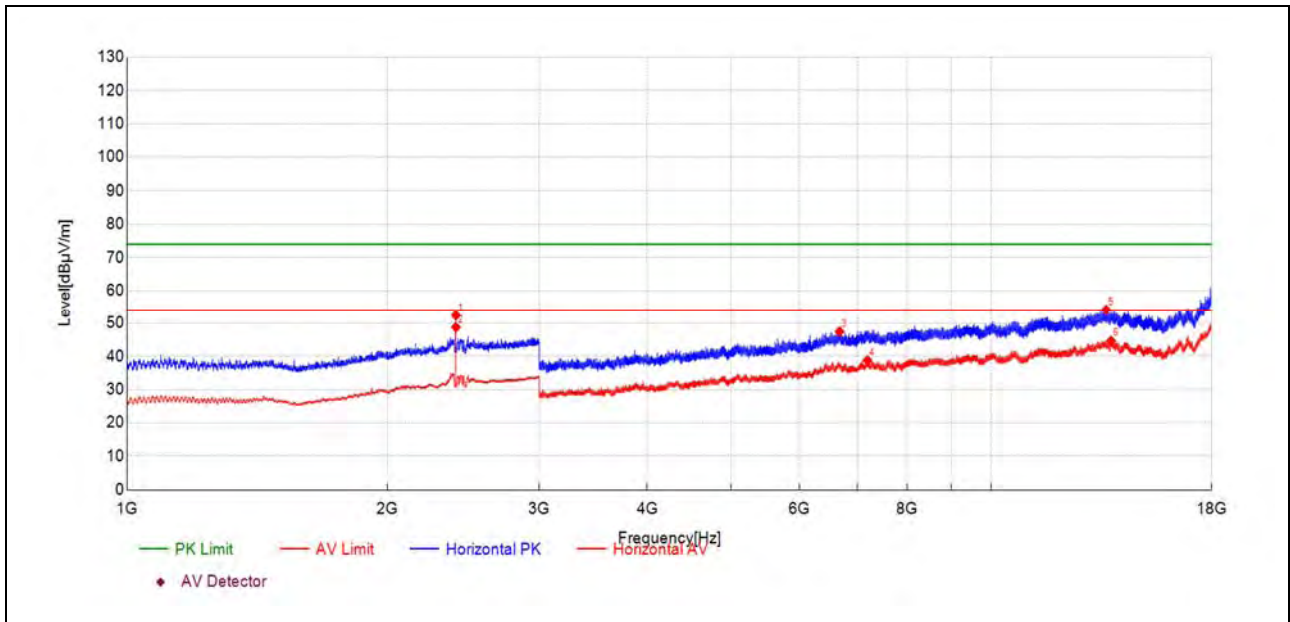
# 1Mbps

## Plot for Channel 0



(Antenna Horizontal, 30MHz to 1GHz)

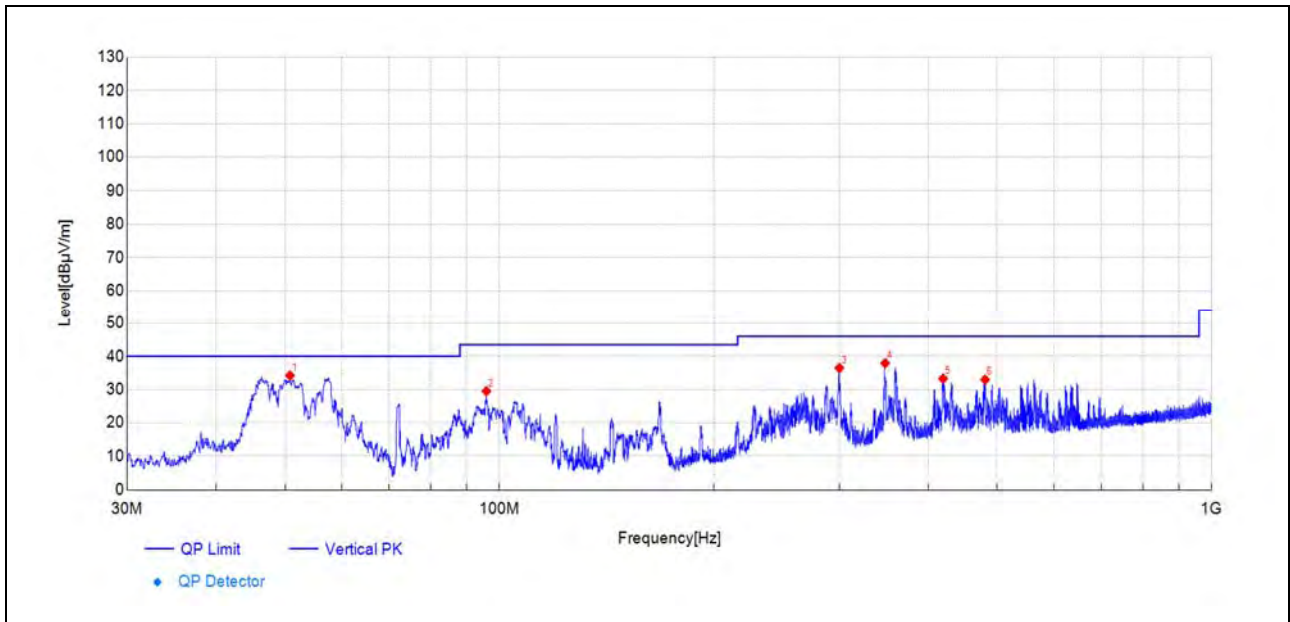
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
46.44	55.3	26.95	-28.310	40.00	13.05	150	144	PK	PASS
57.69	56.7	26.57	-30.140	40.00	13.43	150	335	PK	PASS
144.13	63.9	30.33	-33.550	43.50	13.17	150	308	PK	PASS
168.23	67.7	35.39	-32.330	43.50	8.11	150	252	PK	PASS
287.98	62.4	35.11	-27.320	46.00	10.89	150	20	PK	PASS
348.76	60.6	35.30	-25.280	46.00	10.70	150	226	PK	PASS



(Antenna Horizontal, 1GHz to 18GHz)

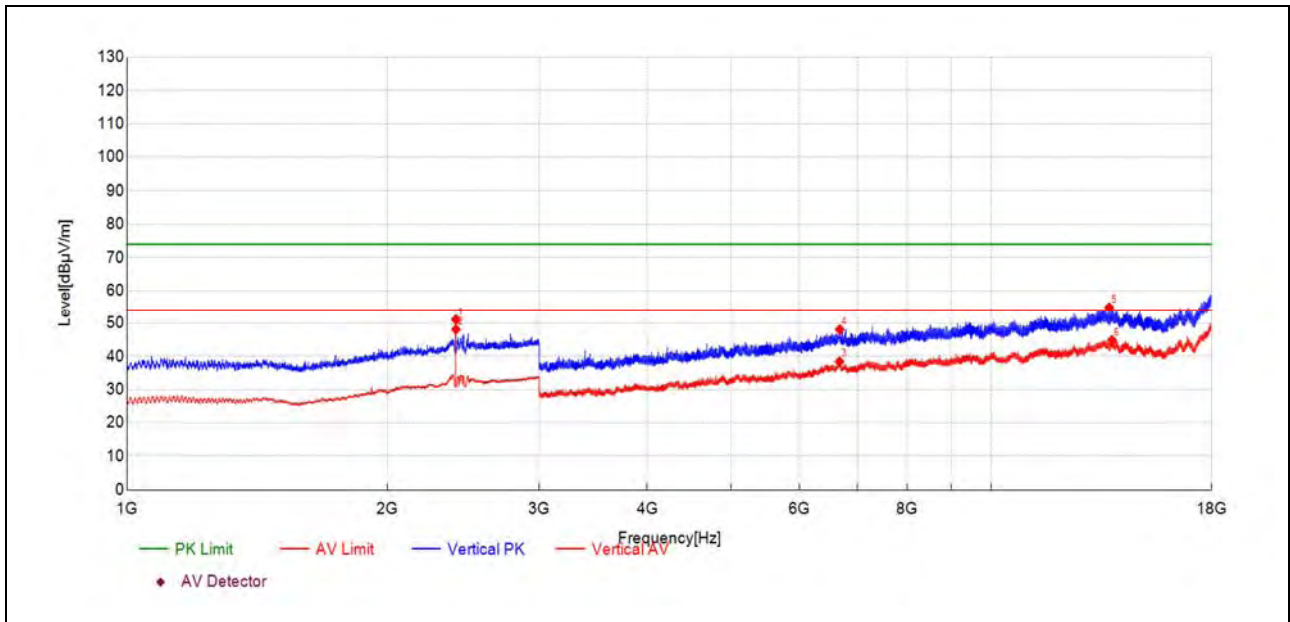
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2402.53	51.6	52.35	0.760	74.00	21.65	150	211	PK	NA
2402.53	48.0	48.74	0.760	54.00	5.26	150	223	AV	NA
6678.62	51.3	47.46	-3.810	74.00	26.54	150	357	PK	PASS
7192.14	42.4	38.75	-3.650	54.00	15.25	150	328	AV	PASS
13583.35	49.3	54.15	4.810	74.00	19.85	150	230	PK	PASS
13763.86	39.5	44.67	5.190	54.00	9.33	150	85	AV	PASS





(Antenna Vertical, 30MHz to 1GHz)

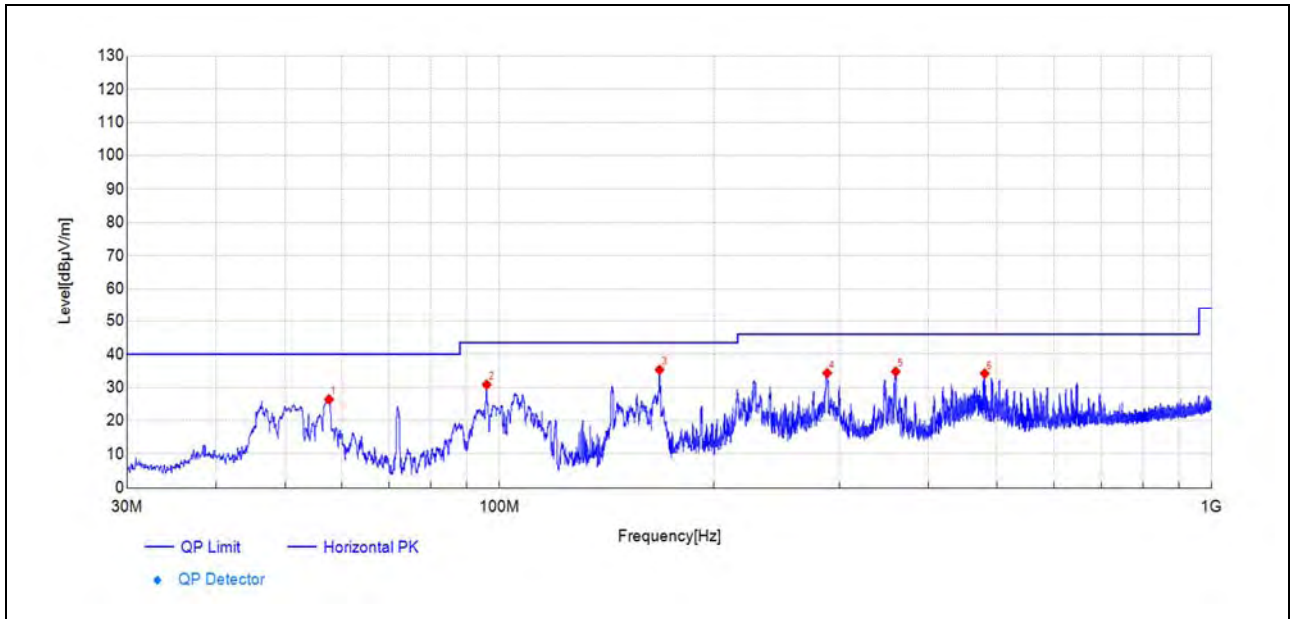
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
50.81	62.8	34.20	-28.620	40.00	5.80	150	92	PK	PASS
95.87	60.0	29.50	-30.540	43.50	14.00	150	283	PK	PASS
300.06	63.5	36.48	-26.970	46.00	9.52	150	324	PK	PASS
347.93	63.2	37.92	-25.260	46.00	8.08	150	189	PK	PASS
419.57	56.6	33.26	-23.380	46.00	12.74	150	214	PK	PASS
480.64	55.3	32.96	-22.320	46.00	13.04	150	214	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

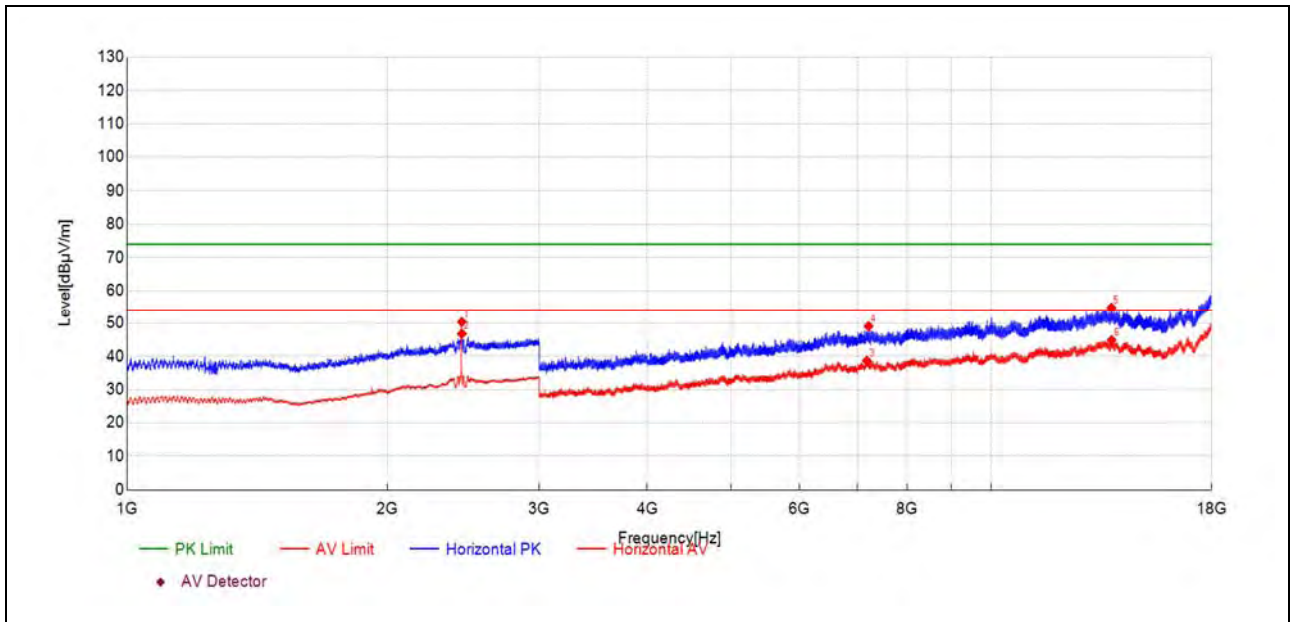
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2402.09	50.4	51.10	0.750	74.00	22.90	150	21	PK	NA
2402.53	47.3	48.10	0.760	54.00	5.90	150	21	AV	NA
6675.62	42.2	38.40	-3.810	54.00	15.60	150	203	AV	PASS
6681.12	51.9	48.09	-3.820	74.00	25.91	150	84	PK	PASS
13699.36	50.4	54.91	4.510	74.00	19.09	150	132	PK	PASS
13801.36	39.3	44.84	5.560	54.00	9.16	150	278	AV	PASS

### Plot for Channel 19



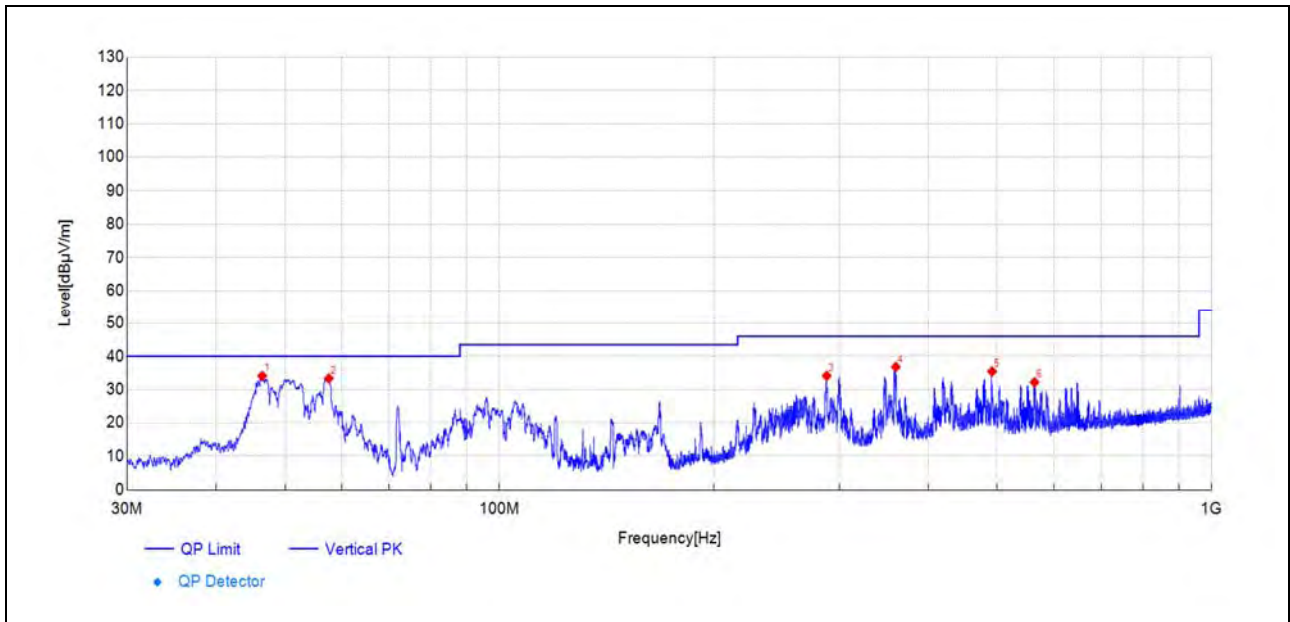
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
57.65	56.5	26.41	-30.120	40.00	13.59	150	11	PK	PASS
95.96	61.4	30.83	-30.520	43.50	12.67	150	358	PK	PASS
167.80	67.6	35.30	-32.330	43.50	8.20	150	283	PK	PASS
288.47	61.6	34.33	-27.310	46.00	11.67	150	38	PK	PASS
360.11	60.1	34.77	-25.350	46.00	11.23	150	257	PK	PASS
480.05	56.5	34.19	-22.330	46.00	11.81	150	243	PK	PASS



(Antenna Horizontal, 1GHz to 18GHz)

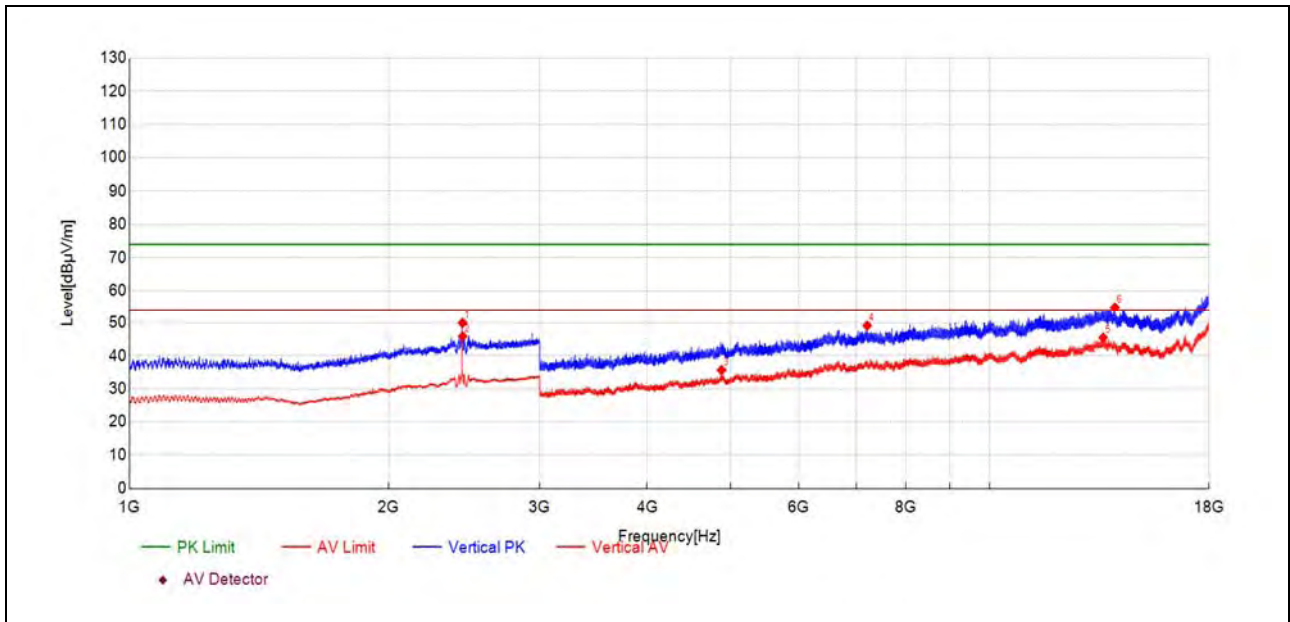
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2440.32	49.3	50.33	1.010	74.00	23.67	150	214	PK	NA
2440.32	45.8	46.79	1.010	54.00	7.21	150	214	AV	NA
7181.14	42.4	38.63	-3.730	54.00	15.37	150	250	AV	PASS
7213.64	52.8	49.04	-3.730	74.00	24.96	150	360	PK	PASS
13781.86	49.4	54.80	5.370	74.00	19.20	150	133	PK	PASS
13786.36	39.4	44.86	5.420	54.00	9.14	150	359	AV	PASS



(Antenna Vertical, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
46.44	62.4	34.09	-28.310	40.00	5.91	150	200	PK	PASS
57.60	63.5	33.34	-30.110	40.00	6.66	150	62	PK	PASS
288.03	61.4	34.10	-27.320	46.00	11.90	150	214	PK	PASS
360.11	62.2	36.80	-25.350	46.00	9.20	150	188	PK	PASS
491.55	57.4	35.41	-22.030	46.00	10.59	150	294	PK	PASS
563.82	53.0	32.18	-20.840	46.00	13.82	150	214	PK	PASS



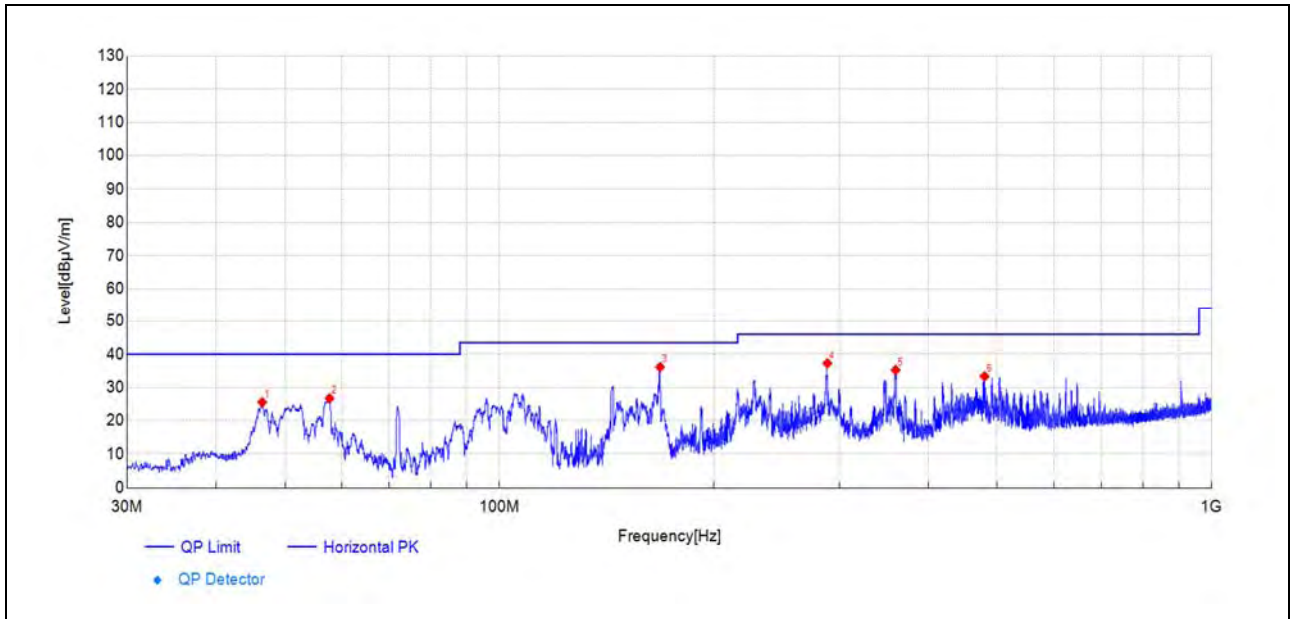


(Antenna Vertical, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2439.88	49.0	49.99	1.010	74.00	24.01	150	56	PK	NA
2440.32	44.9	45.90	1.010	54.00	8.10	150	68	AV	NA
4880.56	45.7	35.67	-10.000	54.00	18.33	150	132	AV	PASS
7209.14	52.8	49.15	-3.690	74.00	24.85	150	182	PK	PASS
13556.35	40.7	45.49	4.780	54.00	8.51	150	84	AV	PASS
13989.37	49.5	54.89	5.410	74.00	19.11	150	360	PK	PASS

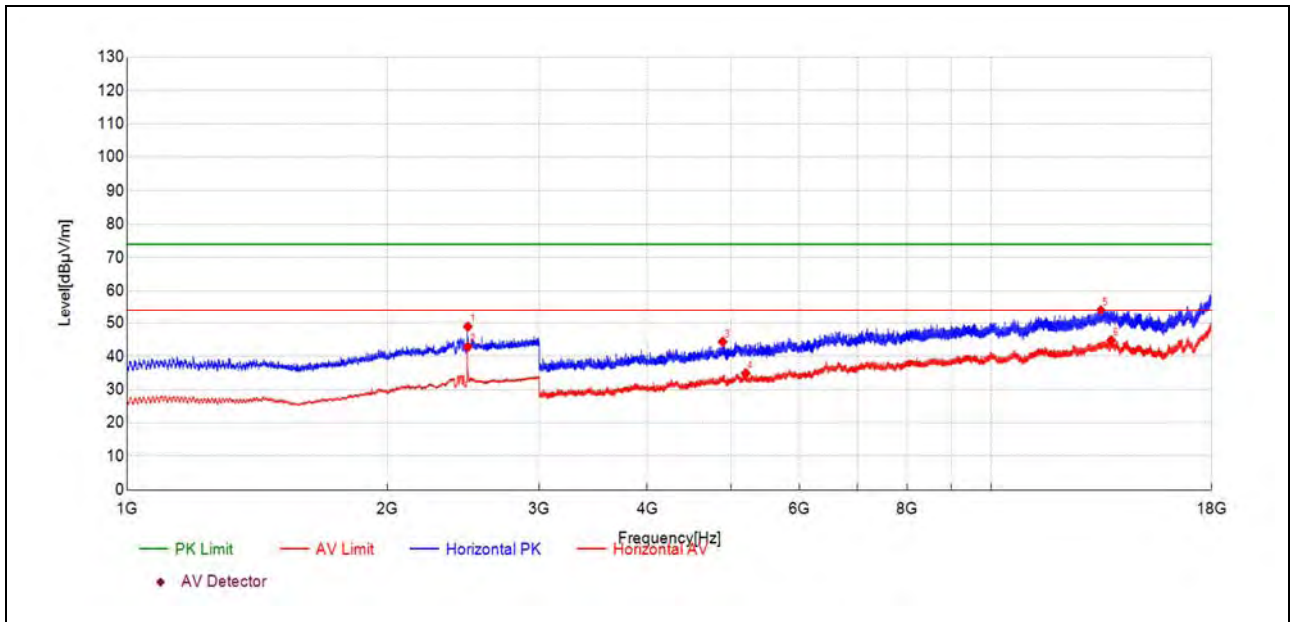


Plot for Channel 39



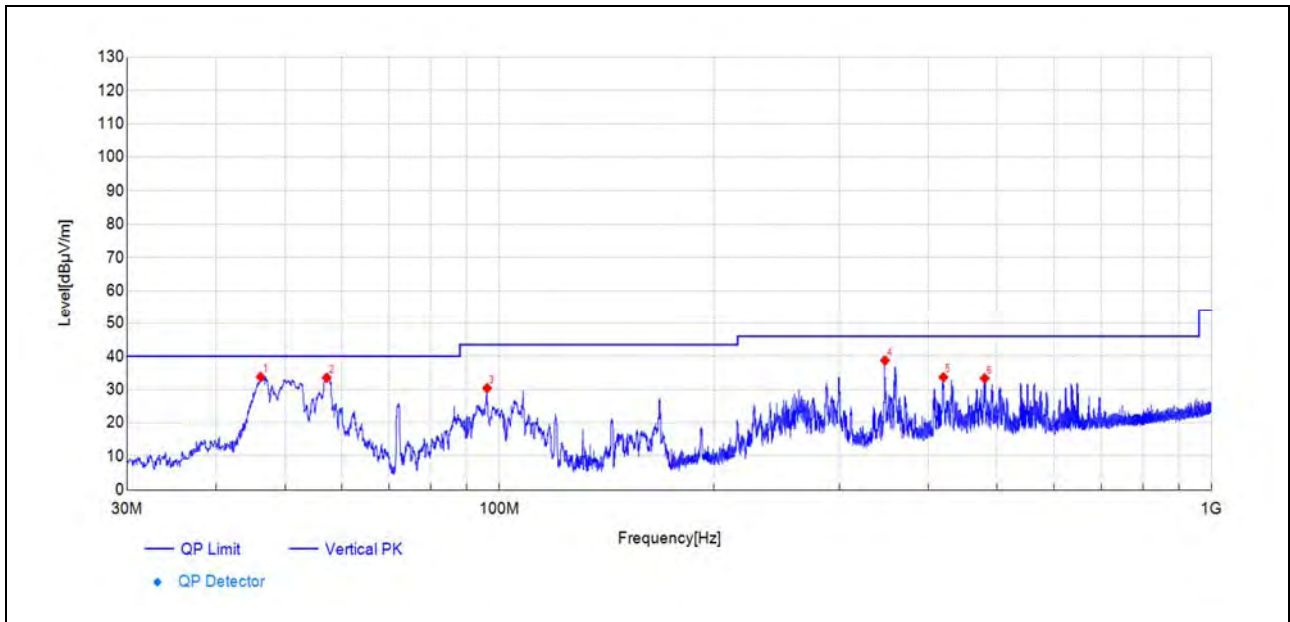
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
46.44	53.9	25.56	-28.310	40.00	14.44	150	130	PK	PASS
57.74	56.9	26.73	-30.150	40.00	13.27	150	336	PK	PASS
168.04	68.4	36.11	-32.330	43.50	7.39	150	268	PK	PASS
288.61	64.6	37.26	-27.310	46.00	8.74	150	6	PK	PASS
359.96	60.6	35.24	-25.350	46.00	10.76	150	268	PK	PASS
479.76	55.7	33.33	-22.330	46.00	12.67	150	240	PK	PASS



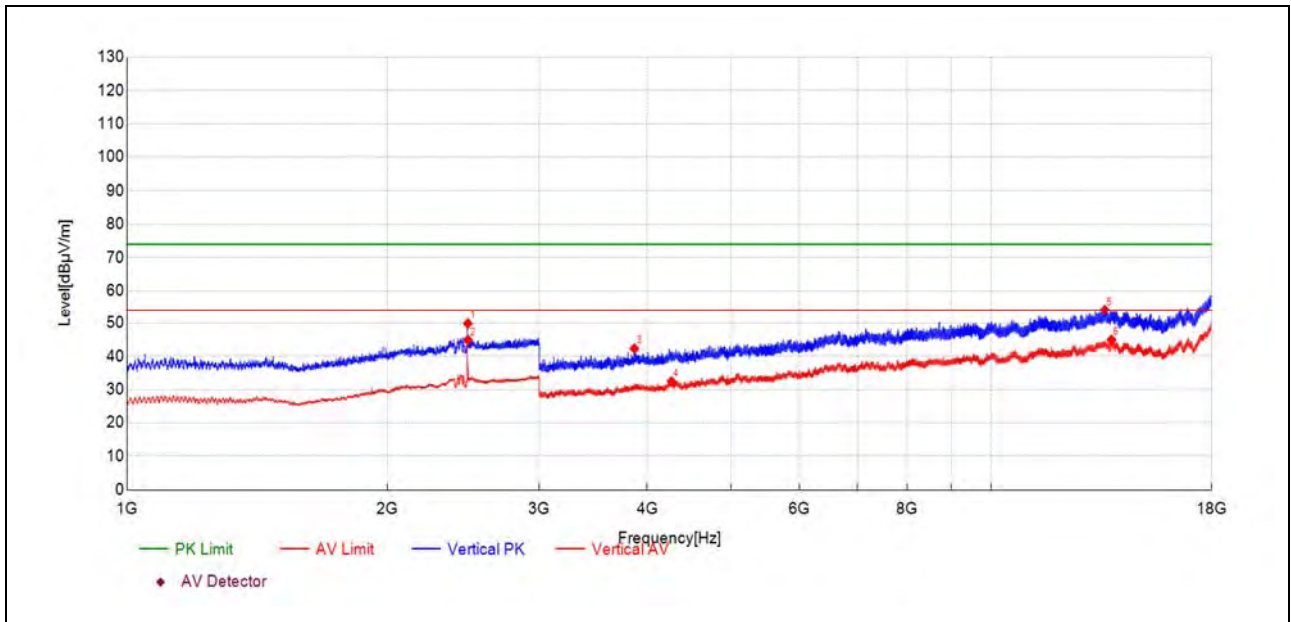
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2479.88	48.0	48.91	0.920	74.00	25.09	150	208	PK	NA
2480.33	41.9	42.85	0.920	54.00	11.15	150	208	AV	NA
4890.06	54.3	44.35	-9.900	74.00	29.65	150	298	PK	PASS
5200.07	43.7	34.88	-8.860	54.00	19.12	150	250	AV	PASS
13394.35	49.3	54.06	4.780	74.00	19.94	150	345	PK	PASS
13769.36	39.5	44.79	5.250	54.00	9.21	150	201	AV	PASS



(Antenna Vertical, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
46.20	62.1	33.81	-28.310	40.00	6.19	150	173	PK	PASS
57.21	63.5	33.53	-29.990	40.00	6.47	150	38	PK	PASS
96.11	60.9	30.41	-30.490	43.50	13.09	150	299	PK	PASS
347.74	64.0	38.75	-25.250	46.00	7.25	150	173	PK	PASS
420.06	57.1	33.71	-23.360	46.00	12.29	150	270	PK	PASS
480.01	55.7	33.35	-22.330	46.00	12.65	150	215	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2479.88	49.0	49.87	0.920	74.00	24.13	150	302	PK	NA
2480.33	44.0	44.88	0.920	54.00	9.12	150	292	AV	NA
3866.03	55.7	42.30	-13.370	74.00	31.70	150	154	PK	PASS
4267.54	44.3	32.43	-11.860	54.00	21.57	150	154	AV	PASS
13540.35	49.4	54.16	4.760	74.00	19.84	150	10	PK	PASS
13777.86	39.6	44.94	5.340	54.00	9.06	150	154	AV	PASS

————— END OF REPORT —————