



# TEST REPORT

**APPLICANT** : BLU Products, Inc.  
**PRODUCT NAME** : Smart Phone  
**MODEL NAME** : G75  
**BRAND NAME** : BLU  
**FCC ID** : YHLBLU75GC  
**STANDARD(S)** : 47 CFR Part 15 Subpart C  
**RECEIPT DATE** : 2025-07-07  
**TEST DATE** : 2025-07-09 to 2025-08-01  
**ISSUE DATE** : 2025-08-19

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Change History		
Version	Date	Reason for change
1.0	2025-08-19	First edition



# 1. Summary of Test Result

No.	Section	Description	Test Date	Test Engineer	Result	Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	/
2	N/A	Duty Cycle of Test Signal	Jul. 21, 2025	Li Yue	PASS	/
3	15.247(b)	Maximum Peak Conducted Output Power	Jul. 21, 2025	Li Yue	PASS	/
4	15.247(b)	Maximum Average Conducted Output Power	Jul. 21, 2025	Li Yue	PASS	/
5	15.247(a)	Bandwidth	Jul. 21, 2025	Li Yue	PASS	/
6	15.247(d)	Conducted Spurious Emission and Band Edge	Jul. 21, 2025	Li Yue	PASS	/
7	15.247(e)	Power Spectral Density	Jul. 21, 2025	Li Yue	PASS	/
8	15.207	Conducted Emission	Jul. 14, 2025	Wang Yapeng Wang Deyong	PASS	/
9	15.247(d)	Restricted Frequency Bands	Jul. 10 to 14, 2025	Tian Xin	PASS	/
10	15.209, 15.247(d)	Radiated Emission	Jul. 11 to 12, 2025	Yuan Zihong	PASS	/

**Note 1:** The tests were performed according to the method of measurements prescribed in ANSI C63.10-2020 and KDB 558074 D01 v05r02.

**Note 2:** Any additions, deviation, or exclusions from the method shall be noted in the "Remark".

## 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	101052	ESPI	R&S	2025.05.15	2026.05.14
LISN	103131	ENV 216	R&S	2025.03.20	2026.03.19
RF Coaxial Cable (DC-100MHz)	EMC-CE-00514	N/A	N/A	2025.05.06	2026.05.05

### 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	2025.05.13	2026.05.12
Test Antenna - Bi-Log	01267	VULB 9163	Schwarzbeck	2024.07.26	2025.07.25
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2025.05.16	2026.05.15
Test Antenna – Horn	02634	BBHA 9120D	Schwarzbeck	2025.06.29	2026.06.28
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2025.06.20	2026.06.19
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2024.09.11	2025.09.10
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.04.19	2028.04.18
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.11.30	2025.11.29



### 1.3. Measurement Uncertainty

Test Items	Uncertainty	Remark
Peak Output Power	±2.22dB	Confidence levels of 95%
Power Spectral Density	±2.22dB	Confidence levels of 95%
Bandwidth	±5%	Confidence levels of 95%
Conducted Spurious Emission	±2.77dB	Confidence levels of 95%
Restricted Frequency Bands	±5%	Confidence levels of 95%
Radiated Emission	±2.95dB	Confidence levels of 95%
Conducted Emission	±2.44dB	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>	BLU Products, Inc.
<b>Applicant Address:</b>	8600 NW 36th Street, Suite #300   Miami, FL 33166 USA
<b>Manufacturer:</b>	BLU Products, Inc.
<b>Manufacturer Address:</b>	8600 NW 36th Street, Suite #300   Miami, FL 33166 USA

### 2.2. Information of EUT

<b>Product Name:</b>	Smart Phone	
<b>Sample No.:</b>	1#, 2#, 7#	
<b>Hardware Version:</b>	KE34NM_01	
<b>Software Version:</b>	BLU_G1170_V15.0.03.01_GENERIC_20250730_2255	
<b>Equipment Type:</b>	Bluetooth LE	
<b>Bluetooth Version:</b>	5.0	
<b>Modulation Type:</b>	GFSK	
<b>Data Rate:</b>	1Mbps, 2Mbps	
<b>Operating Frequency Range:</b>	2402MHz-2480MHz	
<b>Antenna Type:</b>	PIFA Antenna	
<b>Antenna Gain:</b>	1.89dBi	
<b>Accessory Information:</b>	Battery	
	<b>Brand Name:</b>	BLU
	<b>Model No.:</b>	C1016605600P
	<b>Serial No.:</b>	N/A
	<b>Capacity:</b>	5900mAh
	<b>Rated Voltage:</b>	3.89V
	<b>Charge Limit:</b>	4.48V
	<b>Manufacturer:</b>	Shenzhenshi jiujiyuan electronic technology co., LTD

<b>Accessory Information:</b>	AC Adapter	
	Brand Name:	BLU
	Model No.:	US-BJ-1825Q
	Serial No.:	N/A
	Rated Output:	5.0V $\pm$ 3000mA
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.5A
	Manufacturer:	ShenZhen BaiJunDa Electronics Co., Ltd

**Note 1:** The EUT description presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information. 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

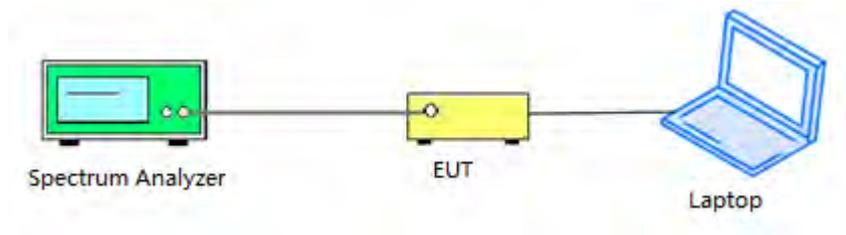
The EUT is controlled by dedicated software to transmit at the default maximum power level.

## 2.5. Test Conditions

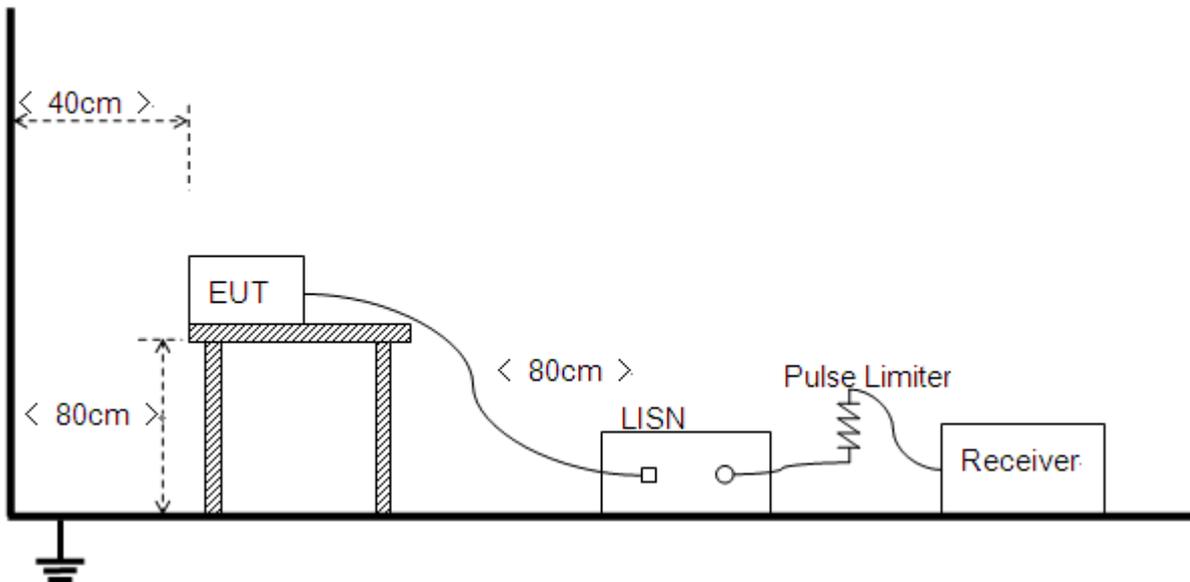
Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

## 2.6. Test Setup Layout Diagram

### 2.6.1. Conducted Measurement

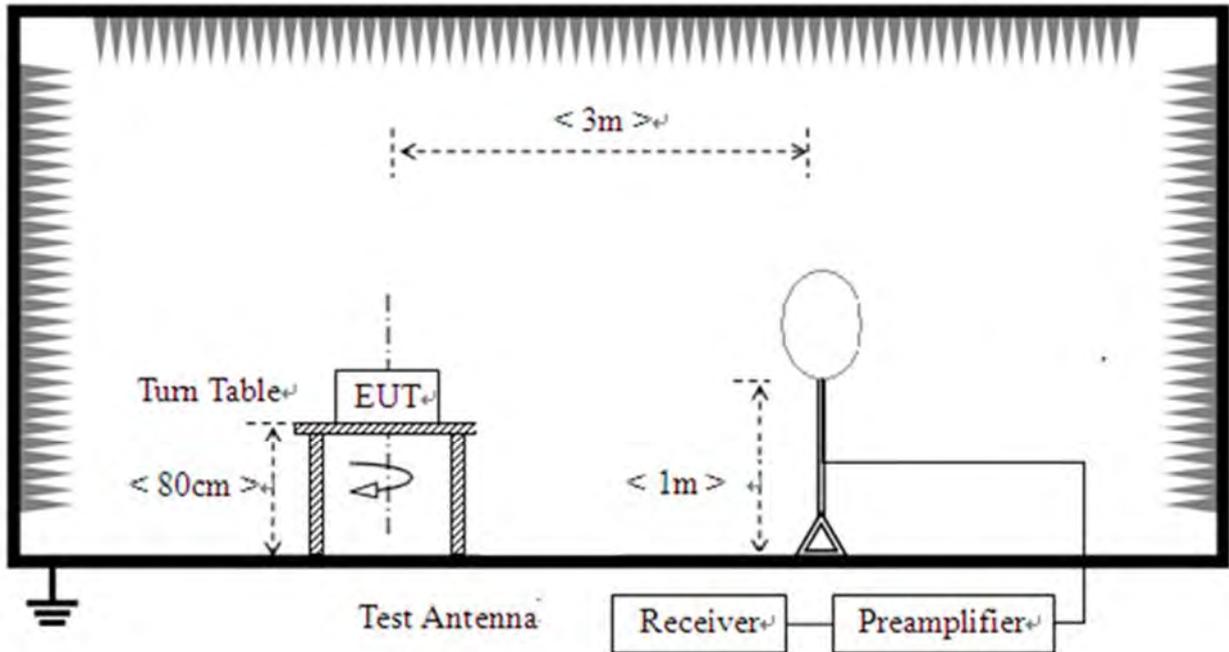


### 2.6.2. Conducted Emission Measurement

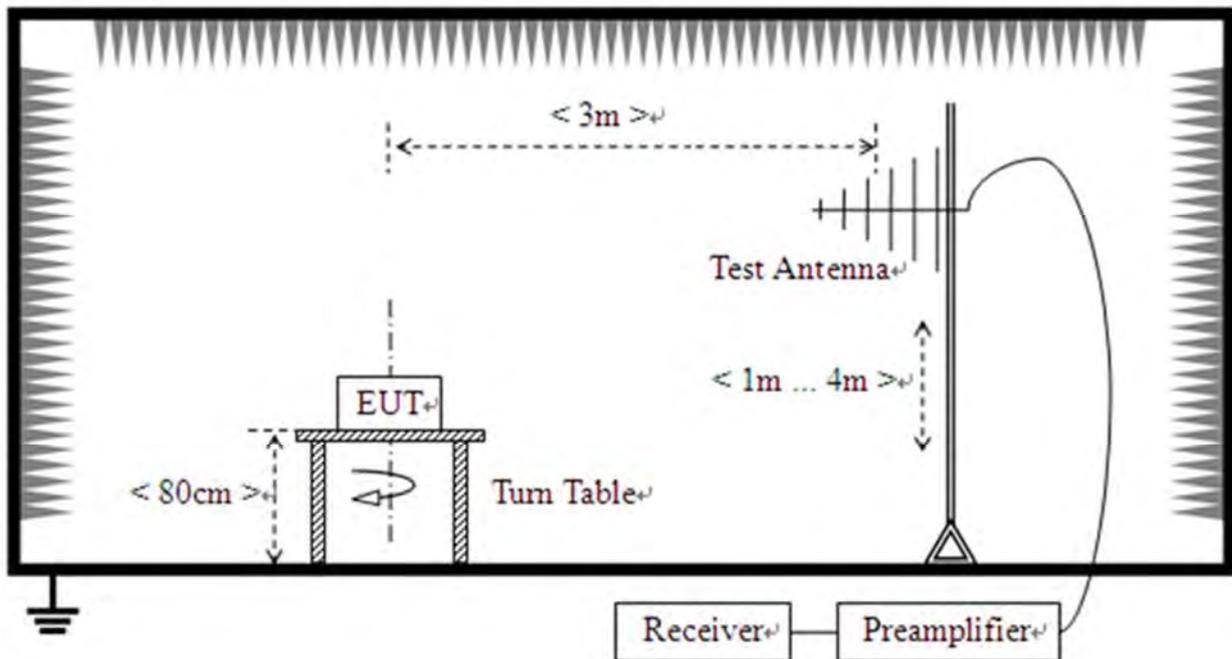


### 2.6.3.Radiation Measurement

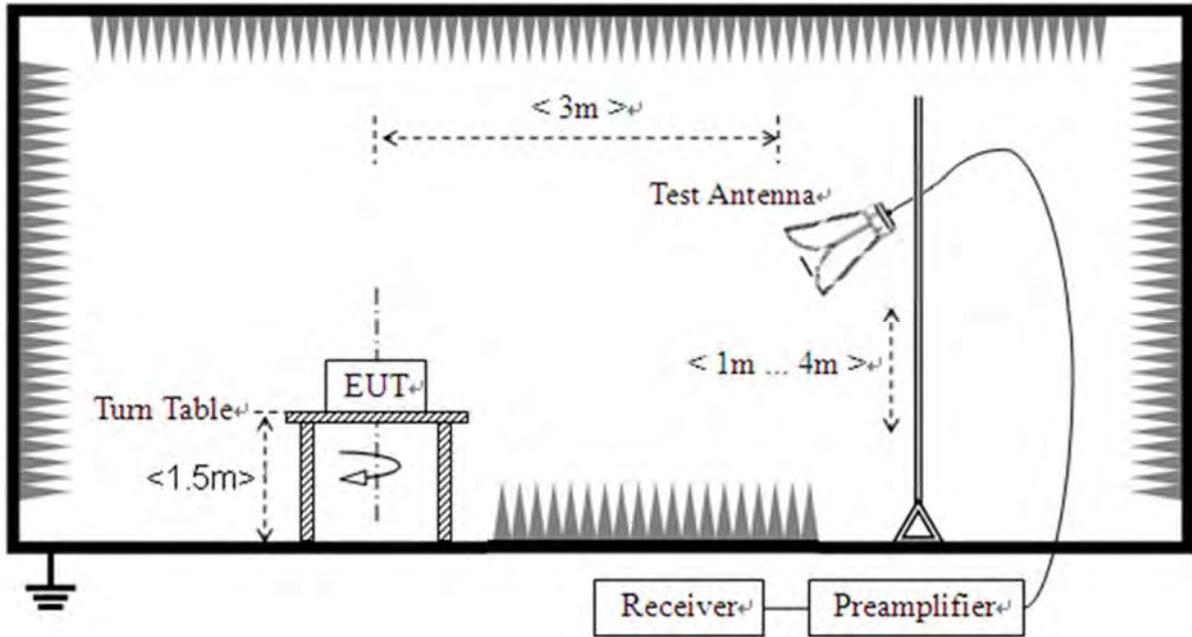
1) For radiated emissions from 9kHz to 30MHz



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 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 checked="" type="checkbox"/> PIFA Antenna <input type="checkbox"/> Inverted F Antenna	<input type="checkbox"/> I-PEX Connector <input type="checkbox"/> SMA Connector <input type="checkbox"/> RP-SMA Connector <input checked="" 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.

### 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 3 meters. 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

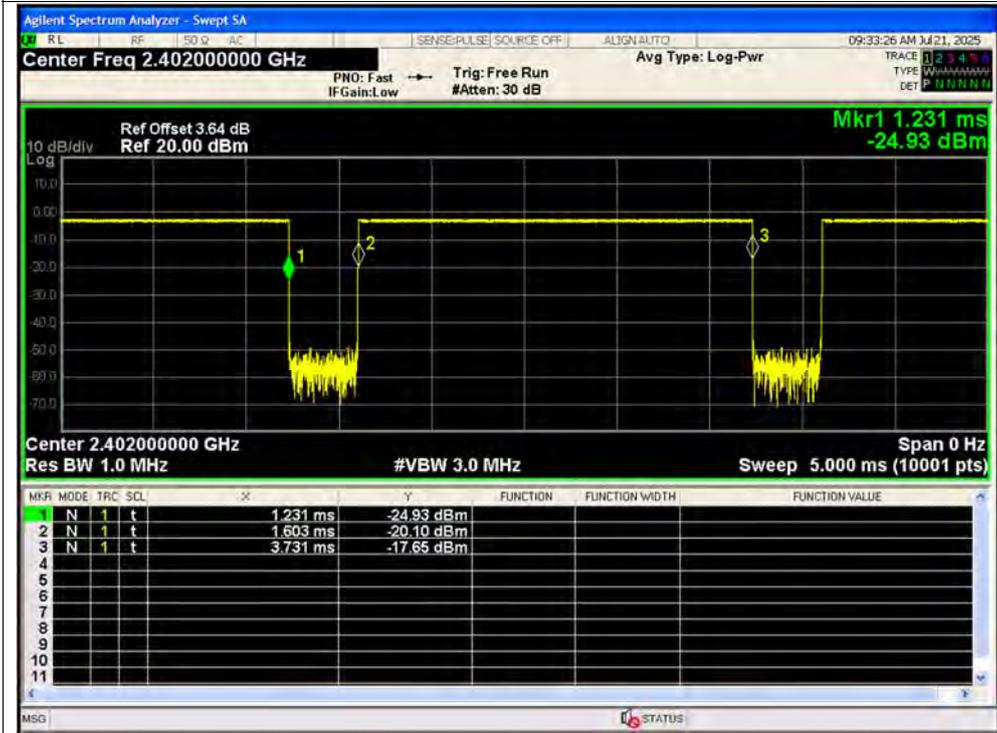
### A.1. Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	85.12	0.7	0.47
NVNT	BLE 1M	2440	Ant1	85.12	0.7	0.47
NVNT	BLE 1M	2480	Ant1	85.12	0.7	0.47
NVNT	BLE 2M	2404	Ant1	57.15	2.43	0.93
NVNT	BLE 2M	2440	Ant1	57.17	2.43	0.93
NVNT	BLE 2M	2478	Ant1	57.16	2.43	0.93

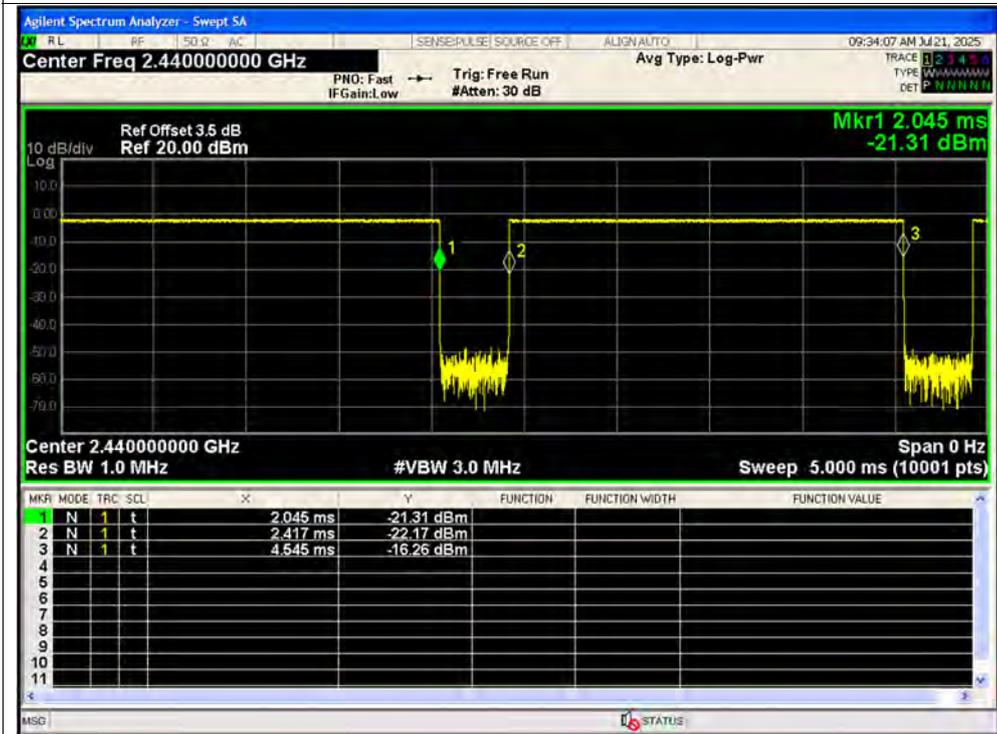


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1

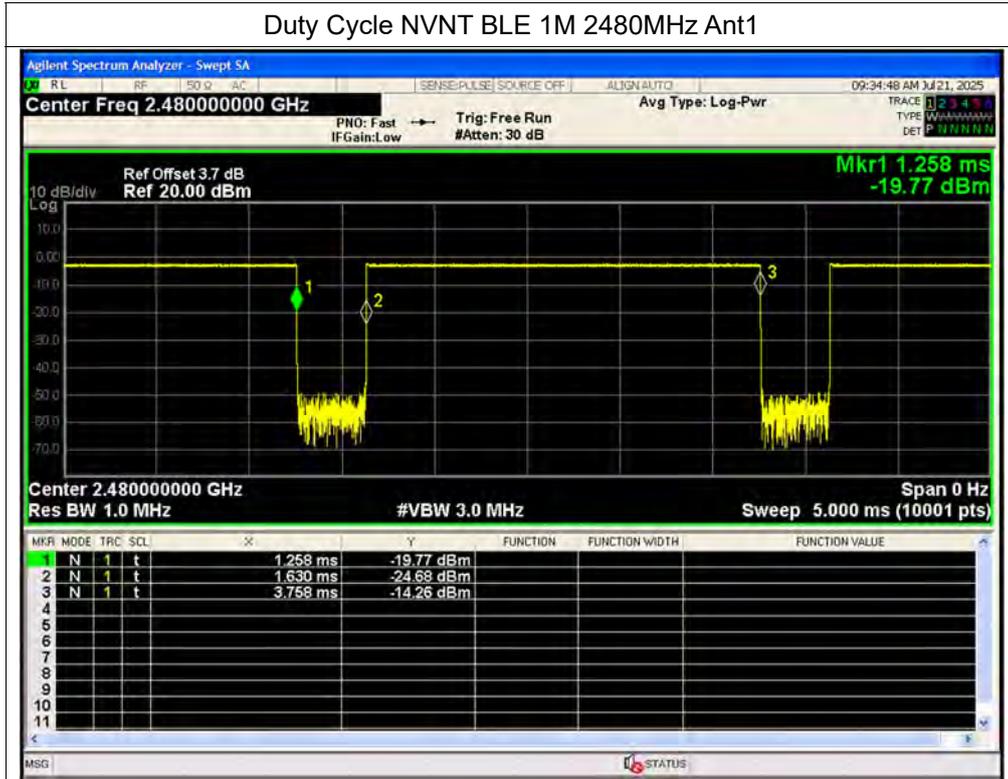


Duty Cycle NVNT BLE 1M 2440MHz Ant1

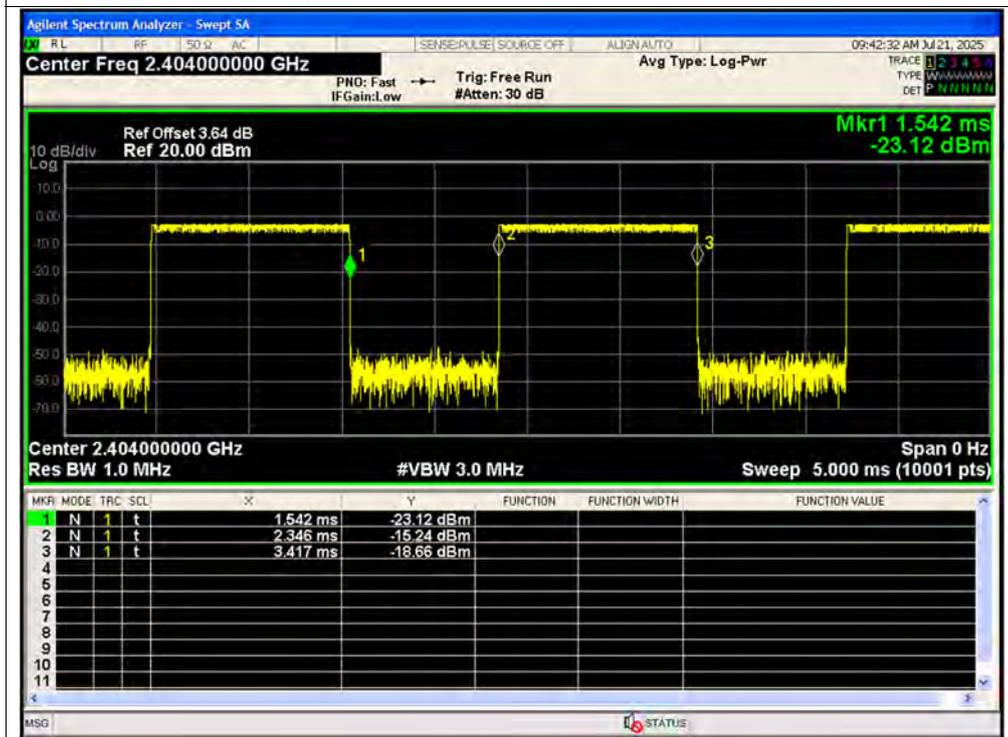




Duty Cycle NVNT BLE 1M 2480MHz Ant1

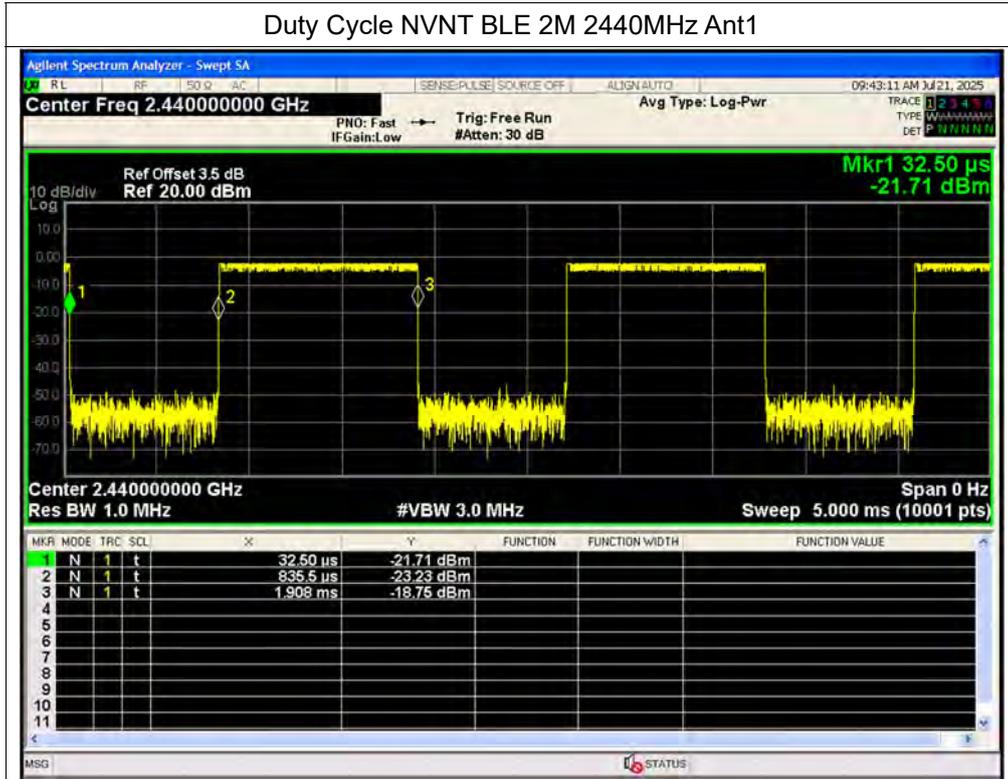


Duty Cycle NVNT BLE 2M 2404MHz Ant1

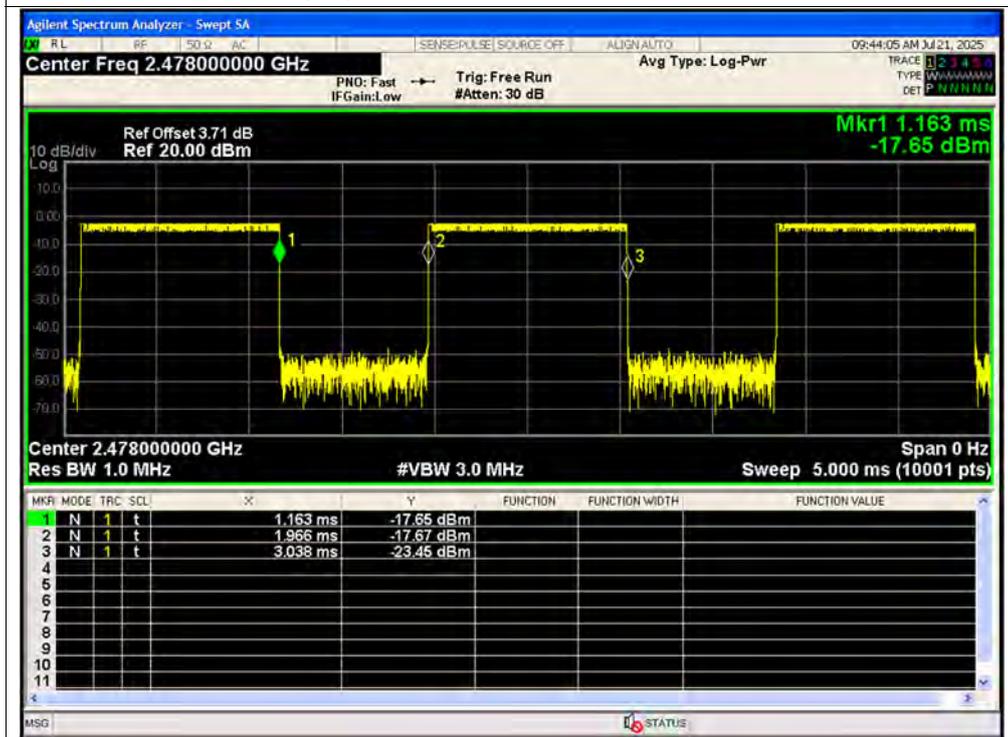




Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2478MHz 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	-2.47	0	-2.47	0.00057	30	Pass
NVNT	BLE 1M	2440	Ant1	-1.76	0	-1.76	0.00067	30	Pass
NVNT	BLE 1M	2480	Ant1	-2.22	0	-2.22	0.0006	30	Pass
NVNT	BLE 2M	2404	Ant1	-2.27	0	-2.27	0.00059	30	Pass
NVNT	BLE 2M	2440	Ant1	-1.69	0	-1.69	0.00068	30	Pass
NVNT	BLE 2M	2478	Ant1	-2.01	0	-2.01	0.00063	30	Pass



Test Graphs

Peak Power NVNT BLE 1M 2402MHz Ant1



Peak Power NVNT BLE 1M 2440MHz Ant1

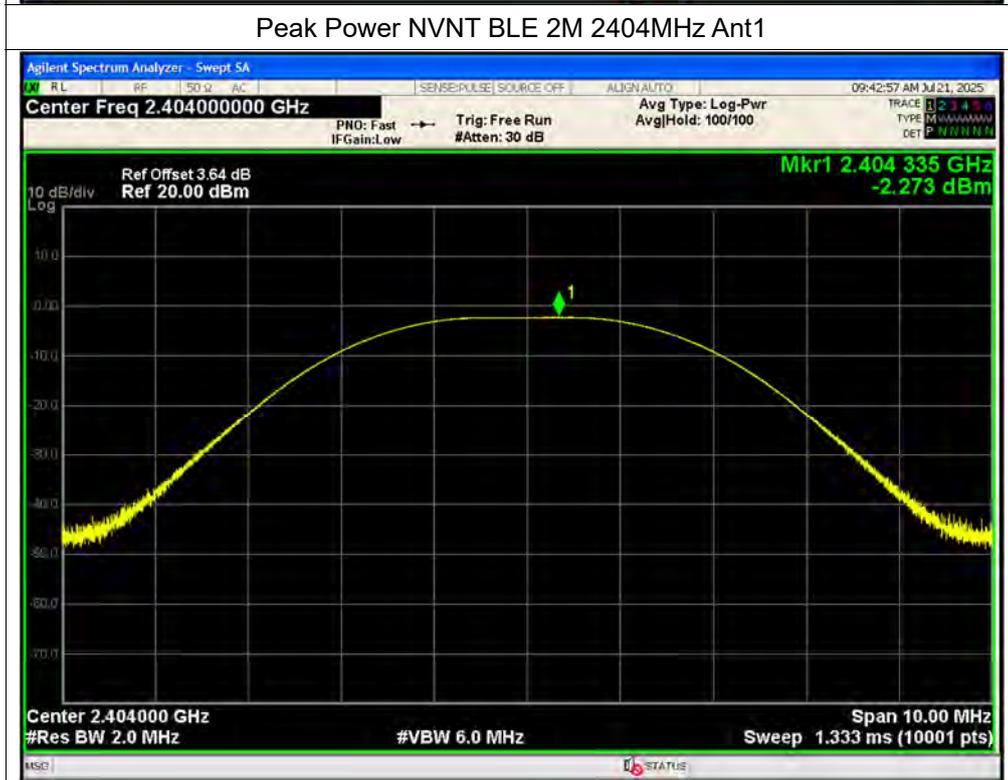




Peak Power NVNT BLE 1M 2480MHz Ant1

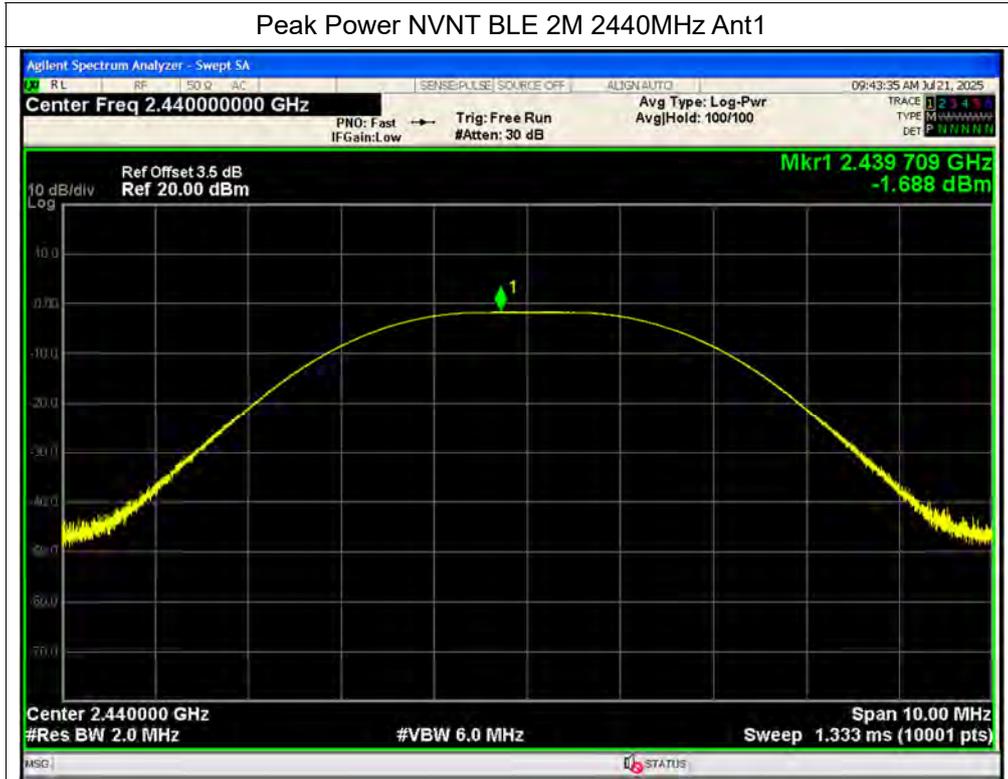


Peak Power NVNT BLE 2M 2404MHz Ant1

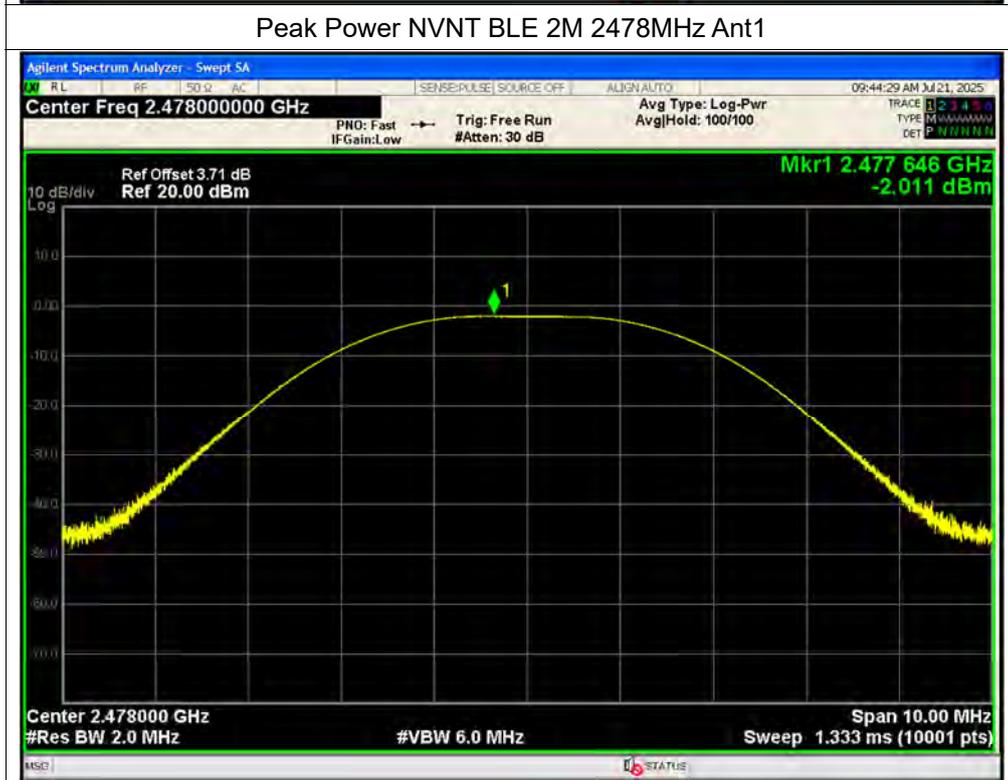




Peak Power NVNT BLE 2M 2440MHz Ant1



Peak Power NVNT BLE 2M 2478MHz 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	-3.47	0.7	-2.77	0.00053	30	Pass
NVNT	BLE 1M	2440	Ant1	-2.7	0.7	-2	0.00063	30	Pass
NVNT	BLE 1M	2480	Ant1	-3.18	0.7	-2.48	0.00056	30	Pass
NVNT	BLE 2M	2404	Ant1	-4.91	2.43	-2.48	0.00056	30	Pass
NVNT	BLE 2M	2440	Ant1	-4.41	2.43	-1.98	0.00063	30	Pass
NVNT	BLE 2M	2478	Ant1	-5.13	2.43	-2.7	0.00054	30	Pass

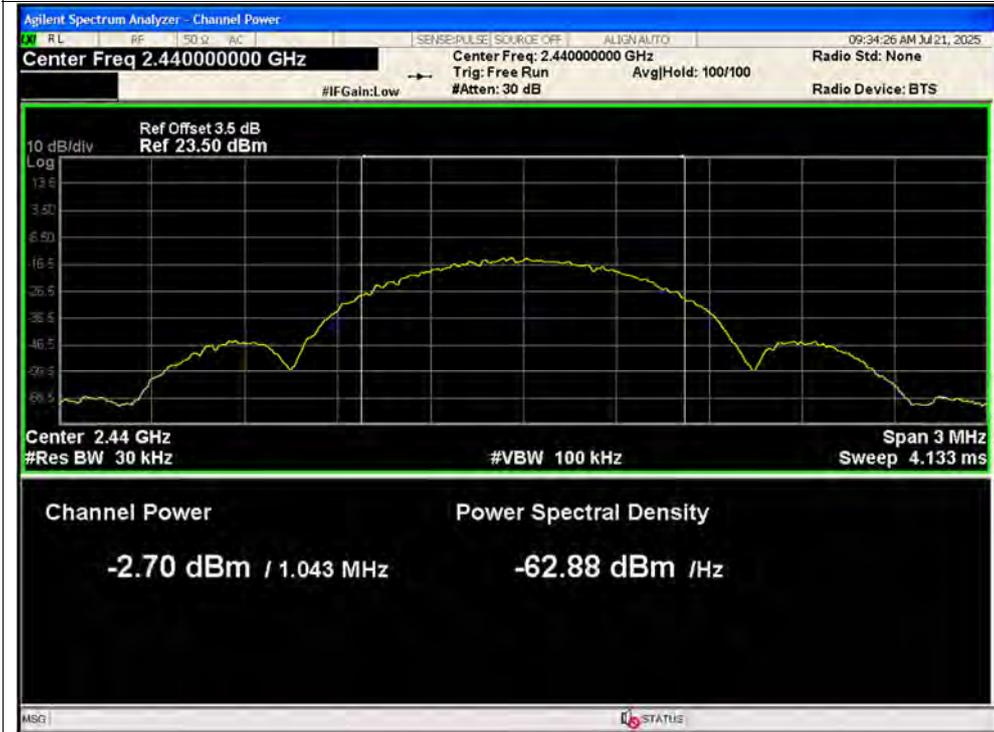


Test Graphs

Average Power NVNT BLE 1M 2402MHz Ant1

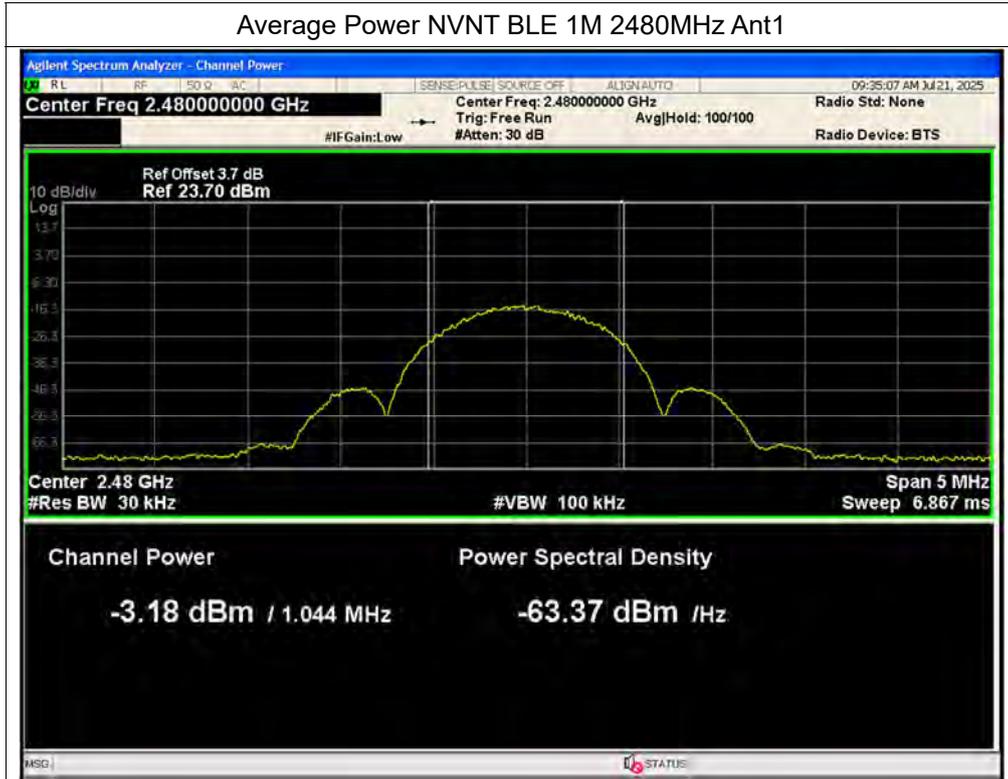


Average Power NVNT BLE 1M 2440MHz Ant1

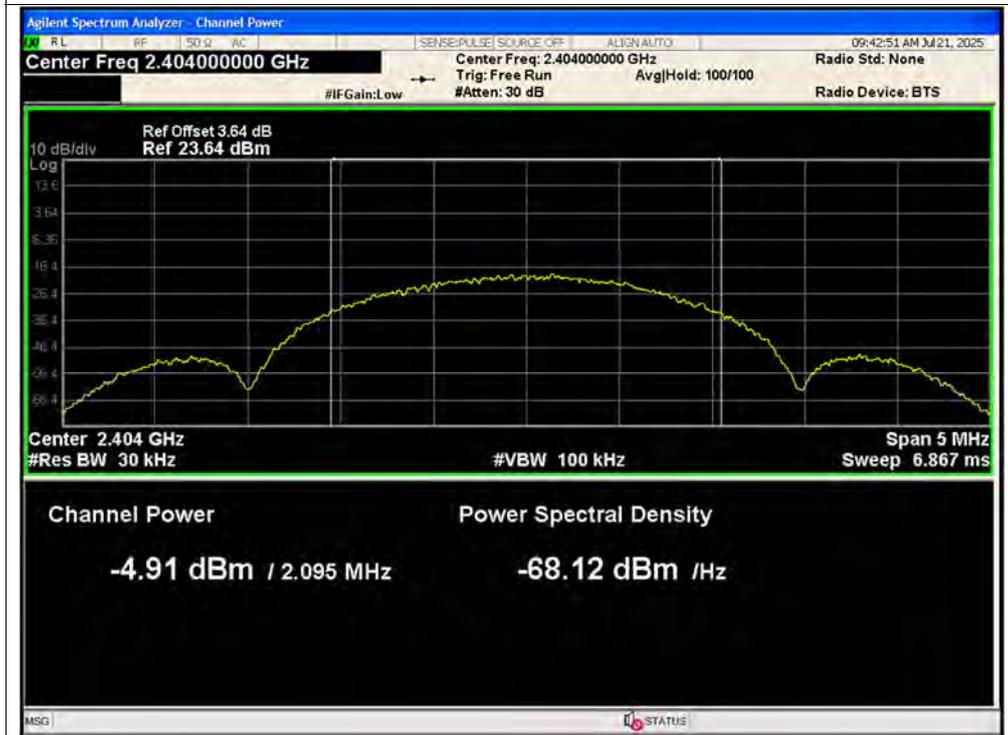




Average Power NVNT BLE 1M 2480MHz Ant1

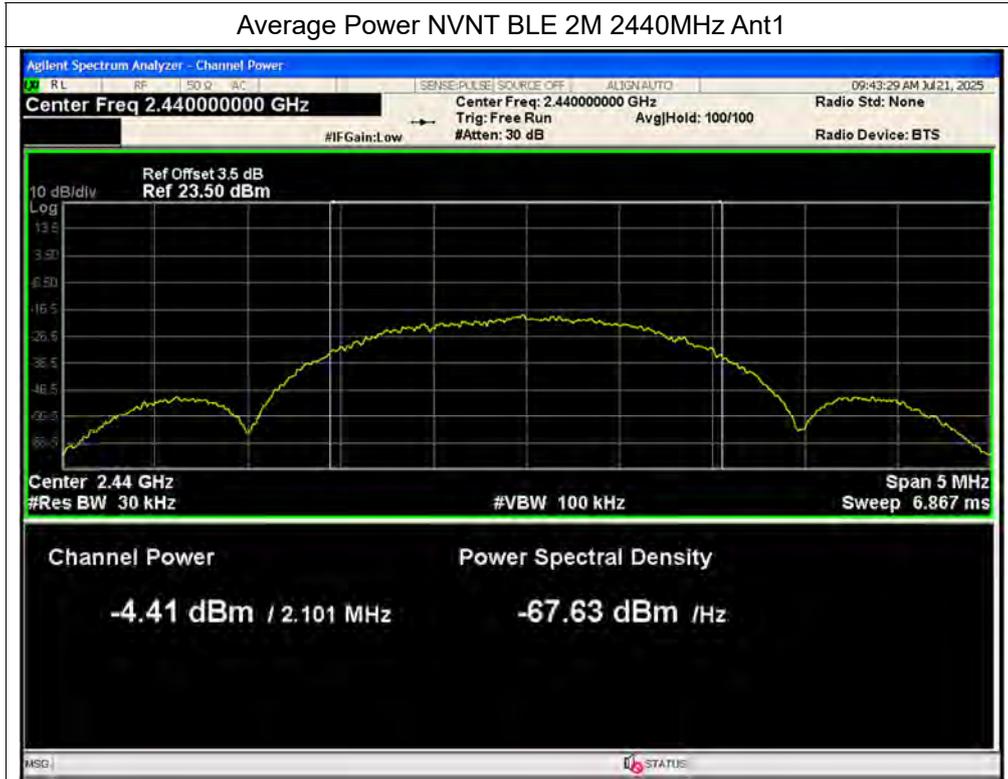


Average Power NVNT BLE 2M 2404MHz Ant1

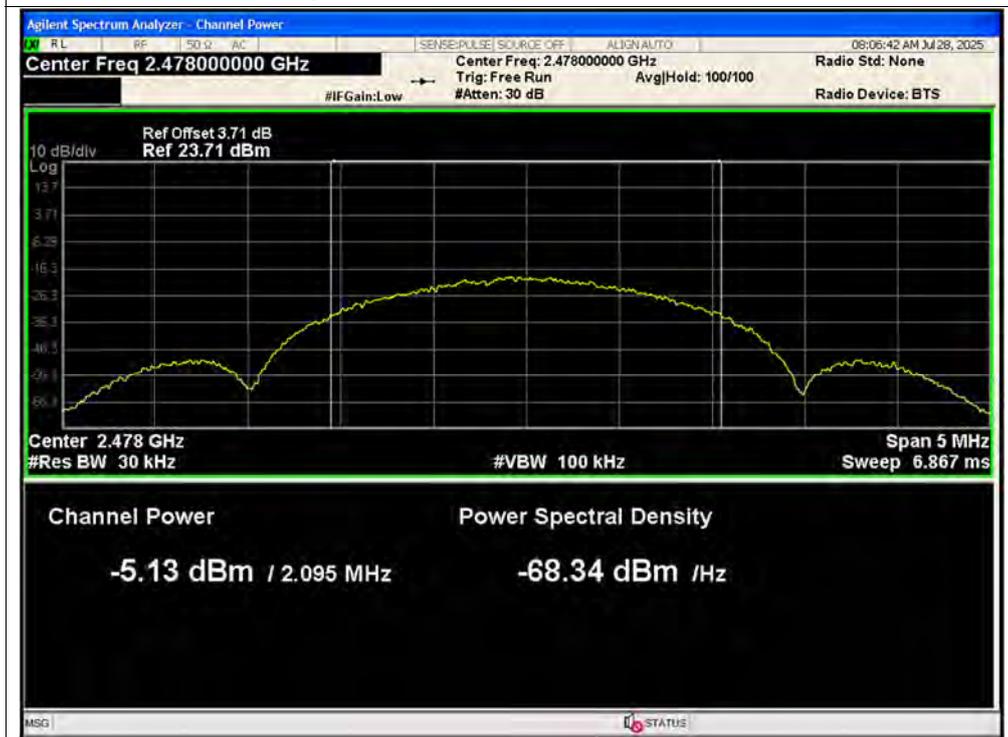




Average Power NVNT BLE 2M 2440MHz Ant1



Average Power NVNT BLE 2M 2478MHz 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	0.7081	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.6615	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.703	0.5	Pass
NVNT	BLE 2M	2404	Ant1	1.142	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.139	0.5	Pass
NVNT	BLE 2M	2478	Ant1	1.158	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 2404MHz Ant1





-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2478MHz Ant1





**A.5. Conducted Spurious Emissions**

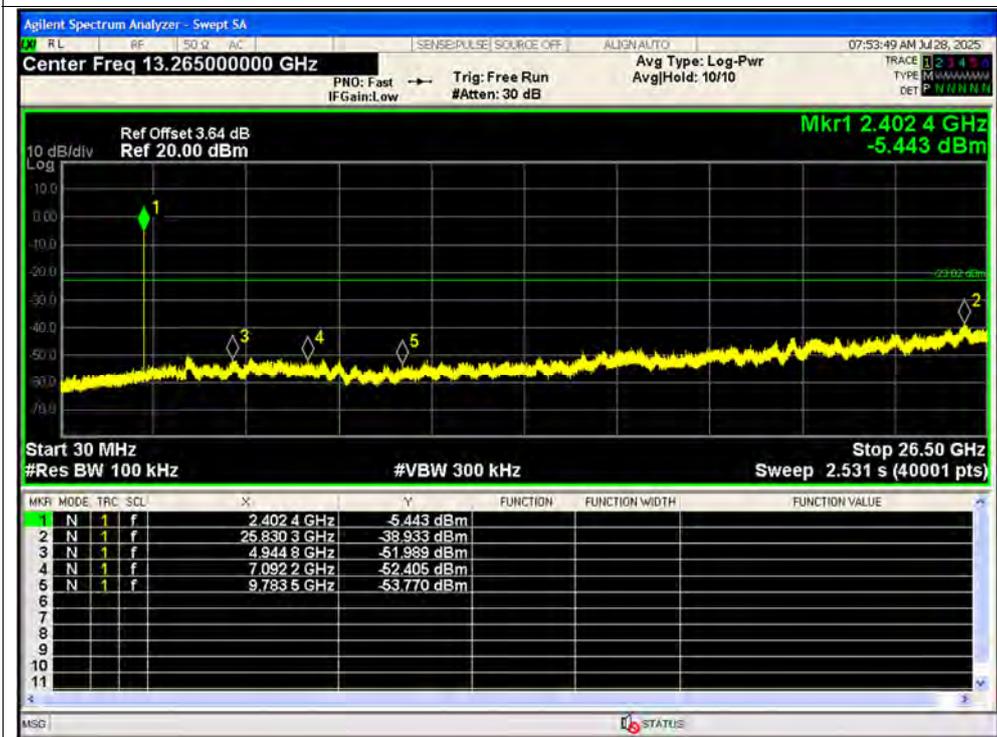
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-35.92	-20	Pass
NVNT	BLE 1M	2440	Ant1	-36.42	-20	Pass
NVNT	BLE 1M	2480	Ant1	-34.96	-20	Pass
NVNT	BLE 2M	2404	Ant1	-36	-20	Pass
NVNT	BLE 2M	2440	Ant1	-36.04	-20	Pass
NVNT	BLE 2M	2478	Ant1	-35.43	-20	Pass

Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission

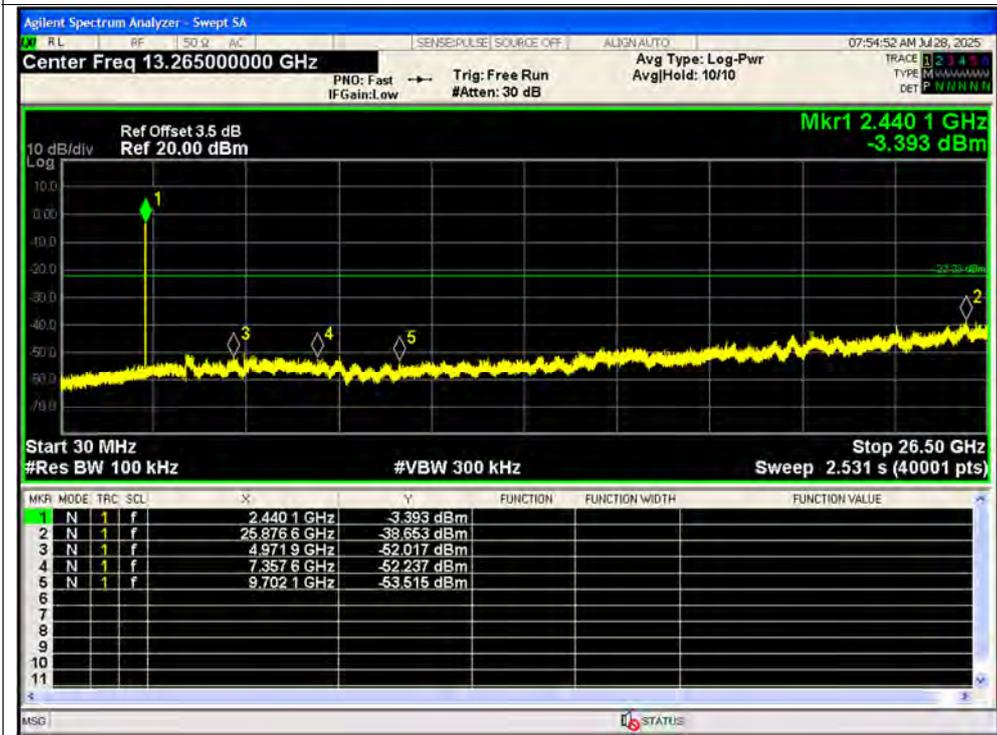




Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission

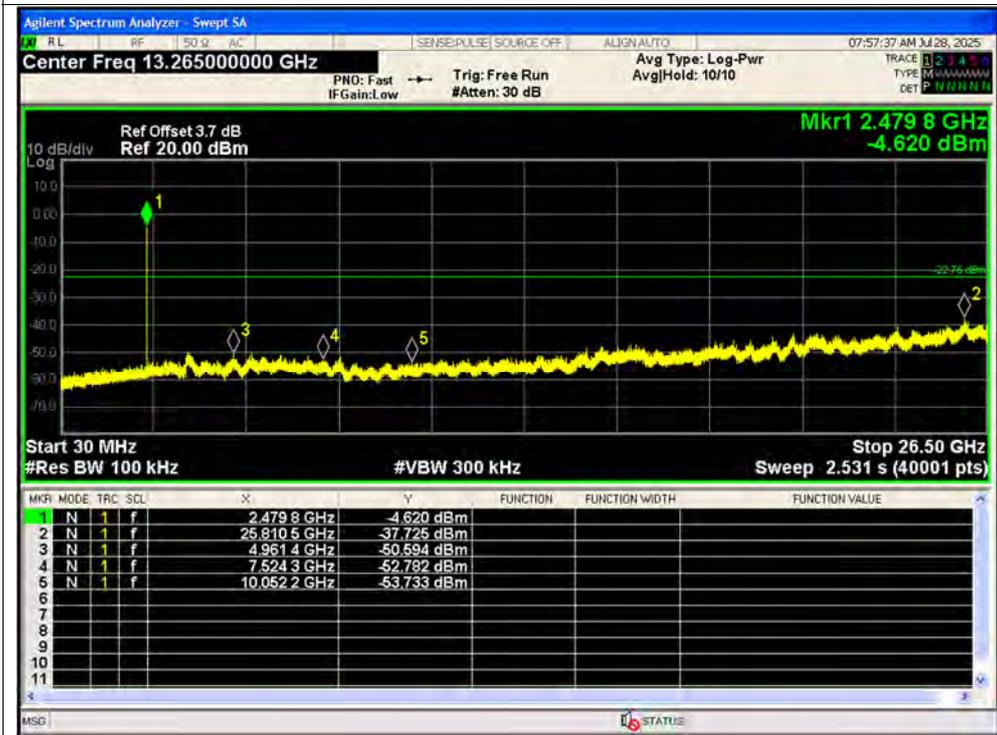




Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



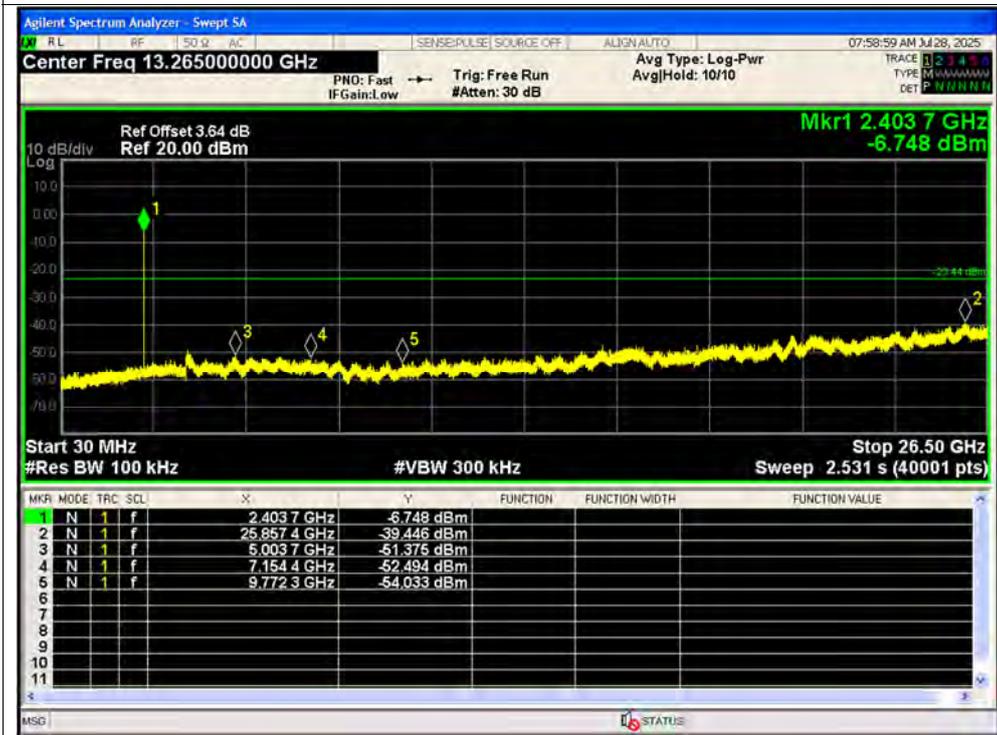
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2404MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2404MHz Ant1 Emission

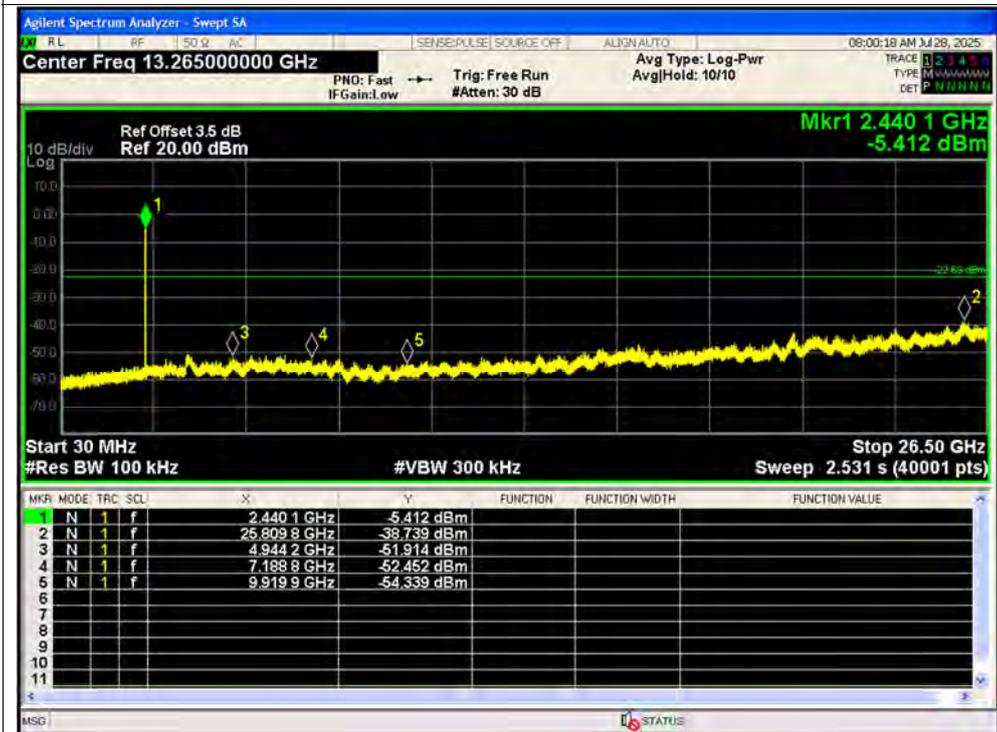




Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission

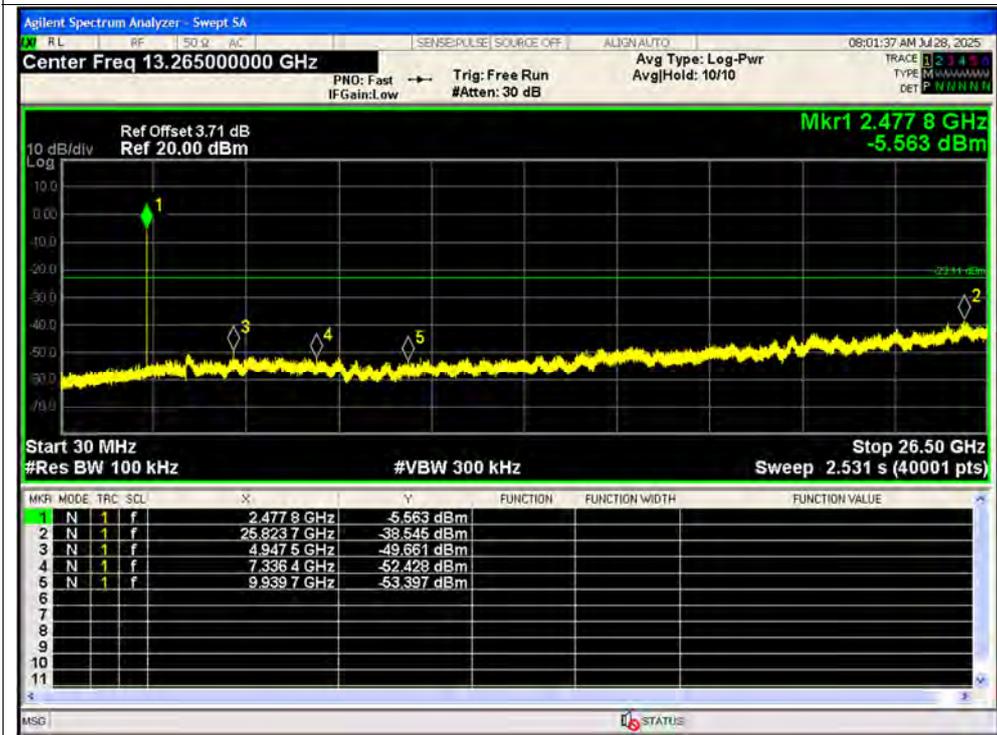




Tx. Spurious NVNT BLE 2M 2478MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2478MHz Ant1 Emission





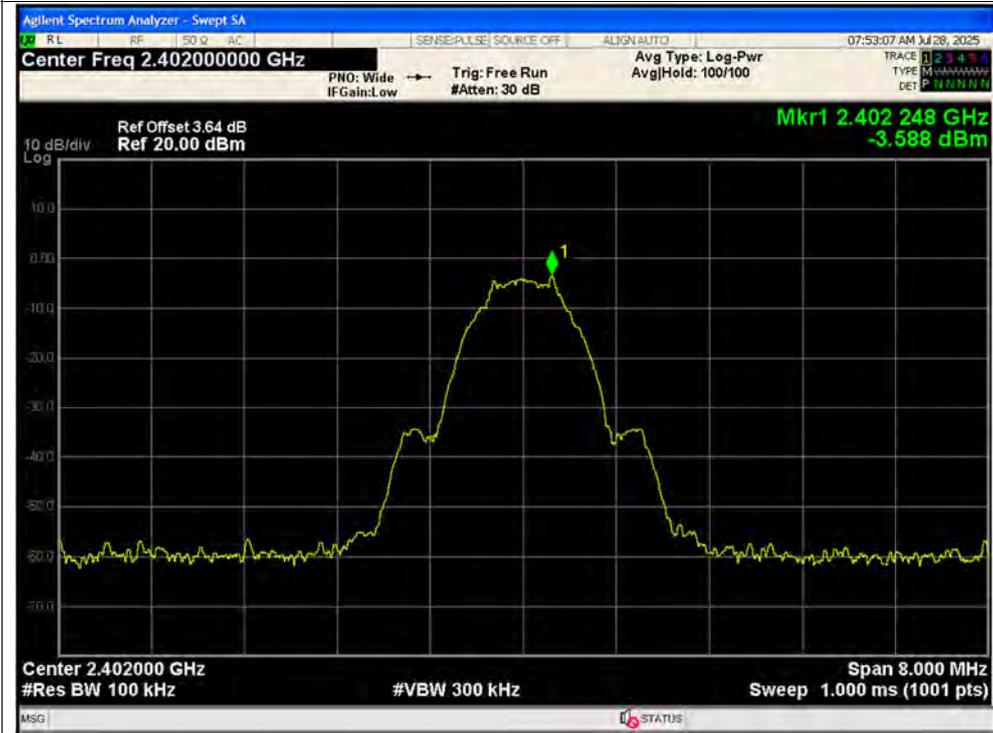
**A.6. Band Edge**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-52.74	-20	Pass
NVNT	BLE 1M	2480	Ant1	-52.73	-20	Pass
NVNT	BLE 2M	2404	Ant1	-50.45	-20	Pass
NVNT	BLE 2M	2478	Ant1	-52.05	-20	Pass

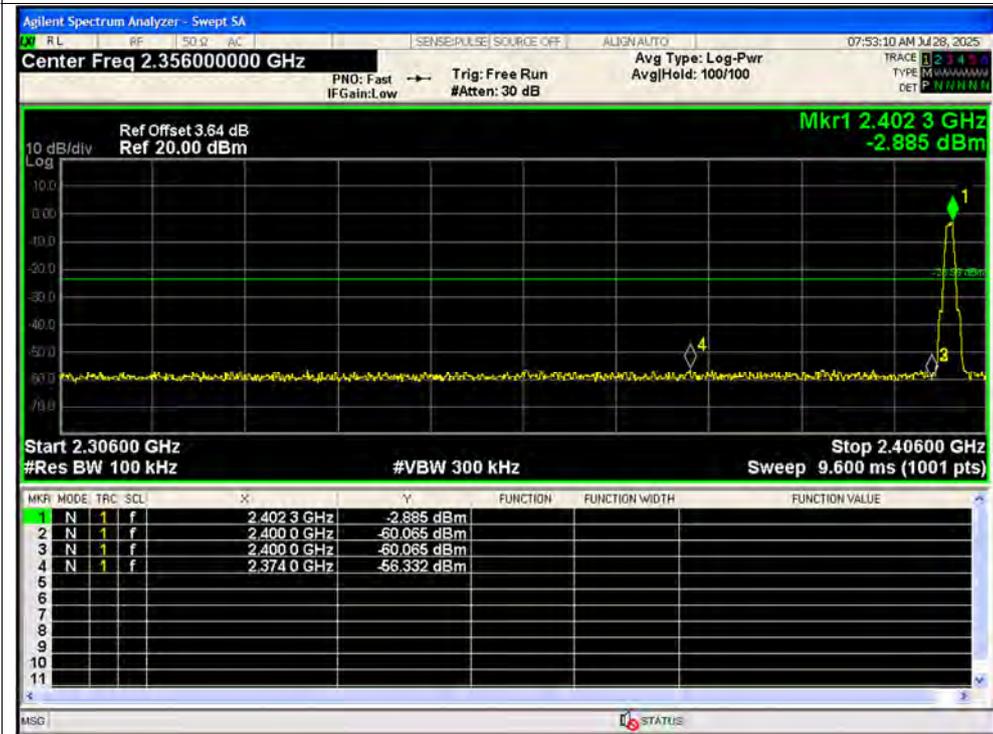


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref

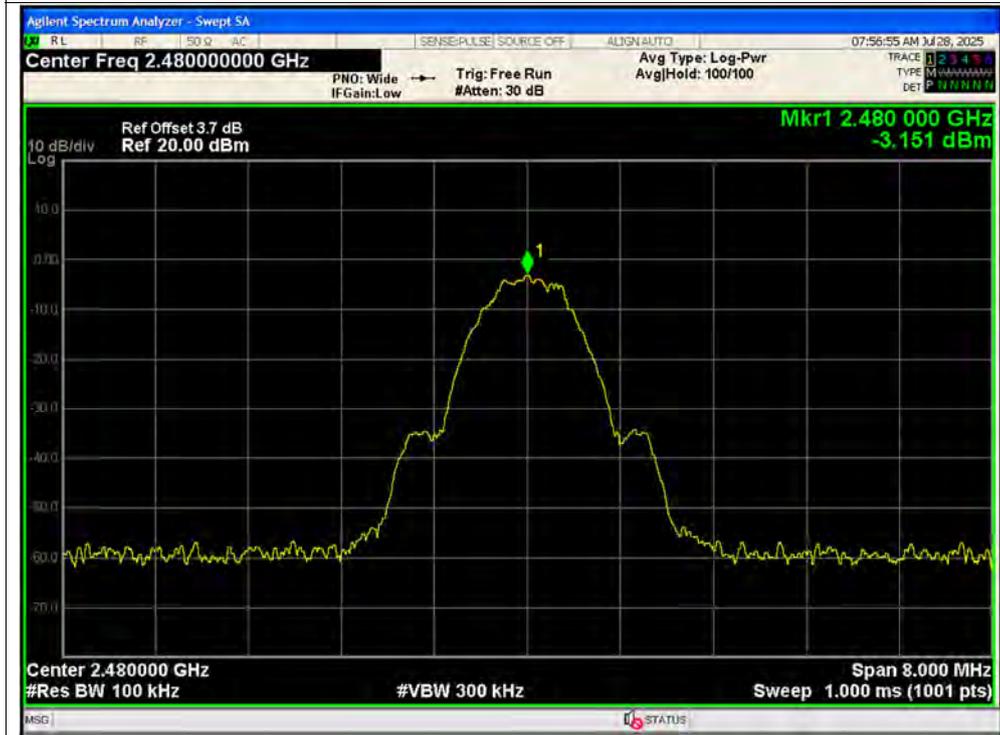


Band Edge NVNT BLE 1M 2402MHz Ant1 Emission

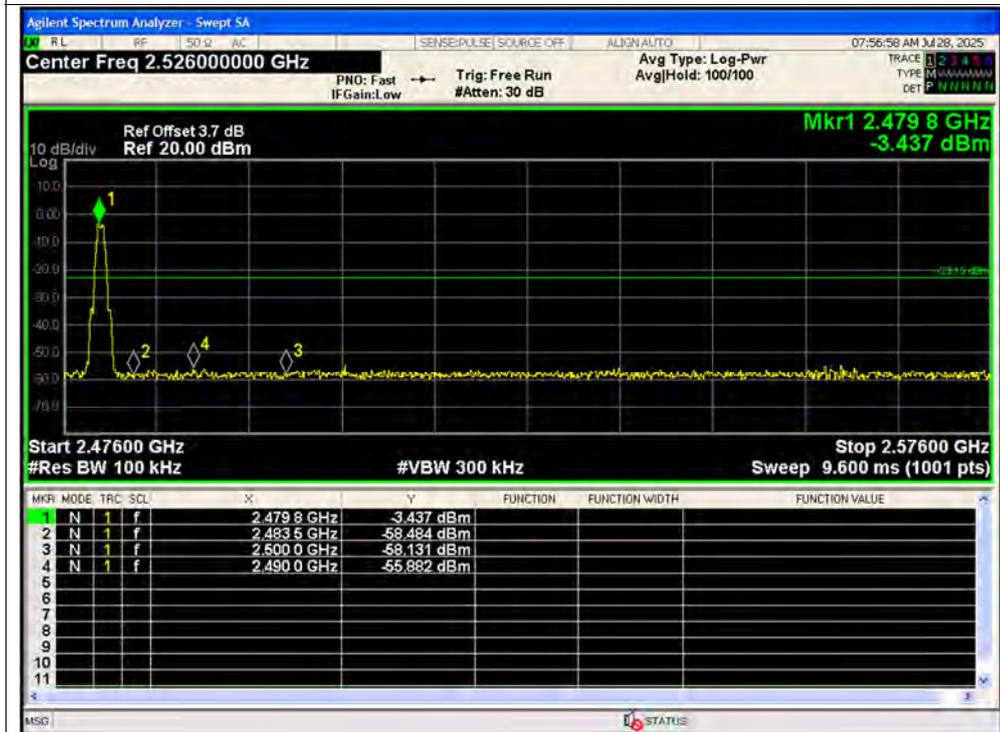




Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission

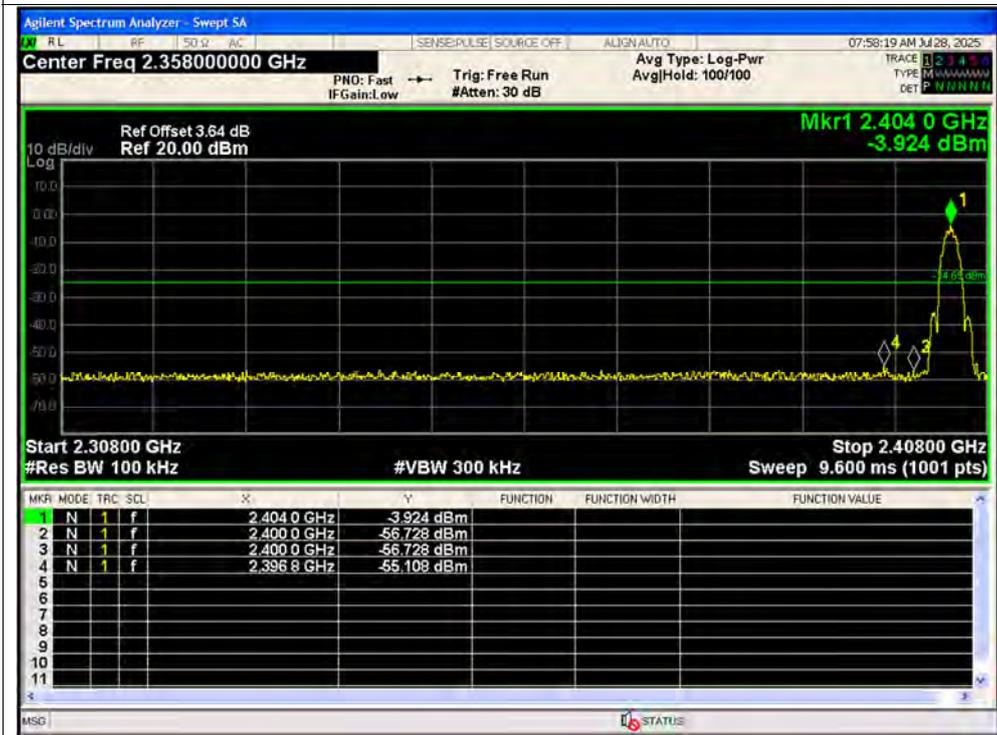




Band Edge NVNT BLE 2M 2404MHz Ant1 Ref



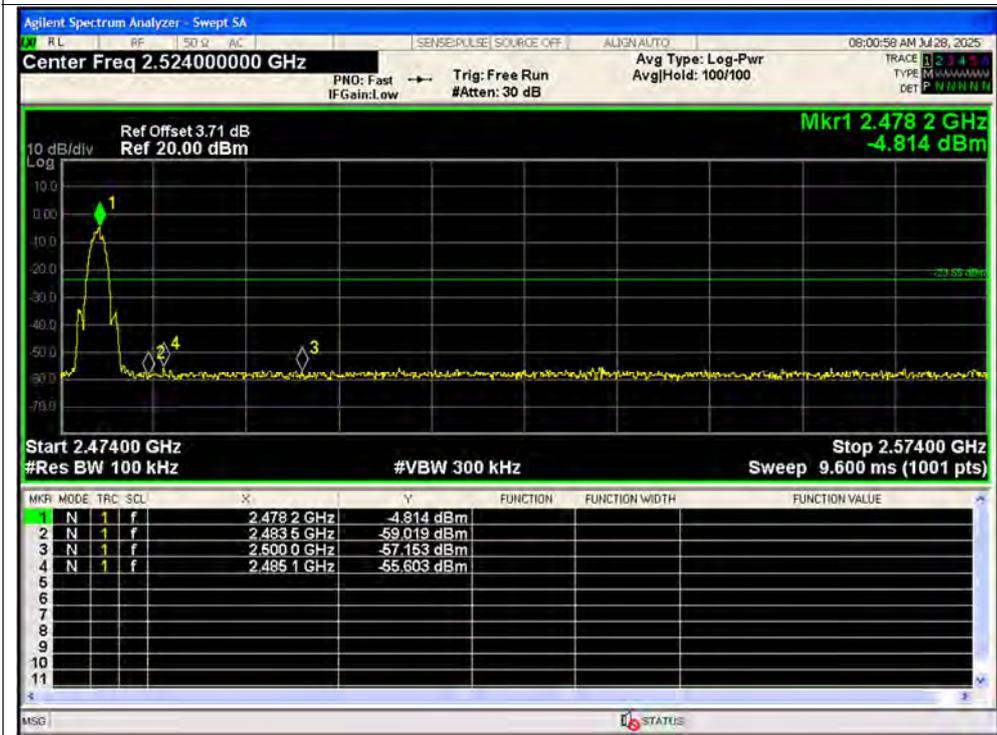
Band Edge NVNT BLE 2M 2404MHz Ant1 Emission



Band Edge NVNT BLE 2M 2478MHz Ant1 Ref



Band Edge NVNT BLE 2M 2478MHz 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	-19.07	0	-19.07	8	Pass
NVNT	BLE 1M	2440	Ant1	-18.3	0	-18.3	8	Pass
NVNT	BLE 1M	2480	Ant1	-18.82	0	-18.82	8	Pass
NVNT	BLE 2M	2404	Ant1	-21.45	0	-21.45	8	Pass
NVNT	BLE 2M	2440	Ant1	-20.68	0	-20.68	8	Pass
NVNT	BLE 2M	2478	Ant1	-21.07	0	-21.07	8	Pass



Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1

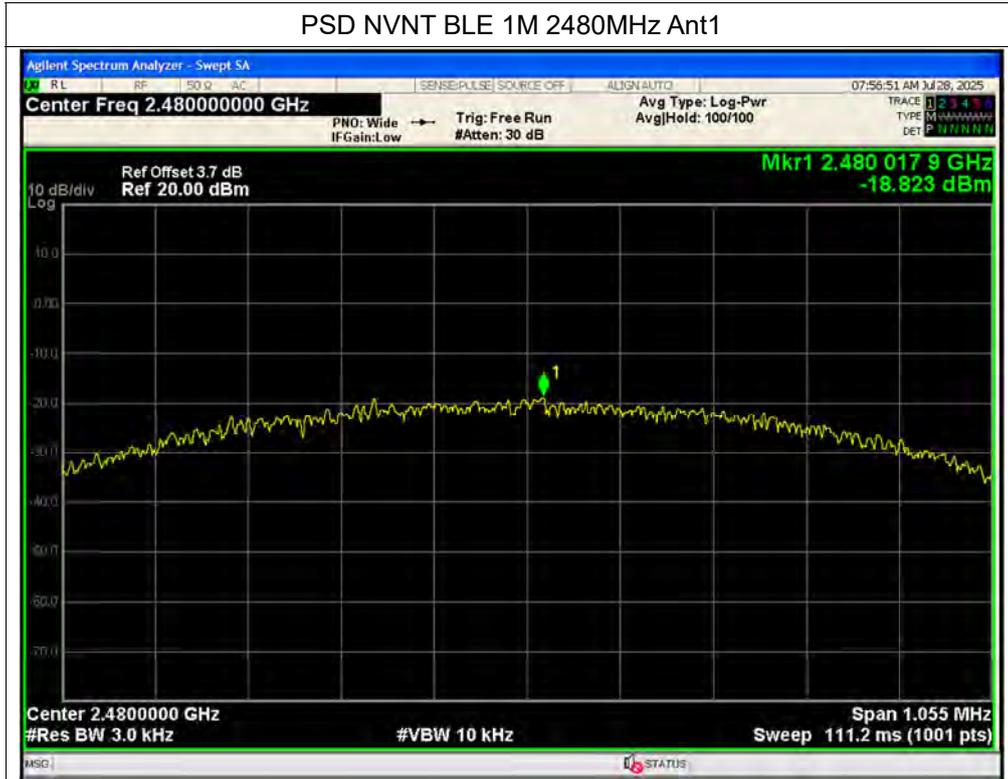


PSD NVNT BLE 1M 2440MHz Ant1





PSD NVNT BLE 1M 2480MHz Ant1



PSD NVNT BLE 2M 2404MHz Ant1





PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2478MHz 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+Adapetr+Data cable+BLE TX

Test voltage: AC 120V/60Hz

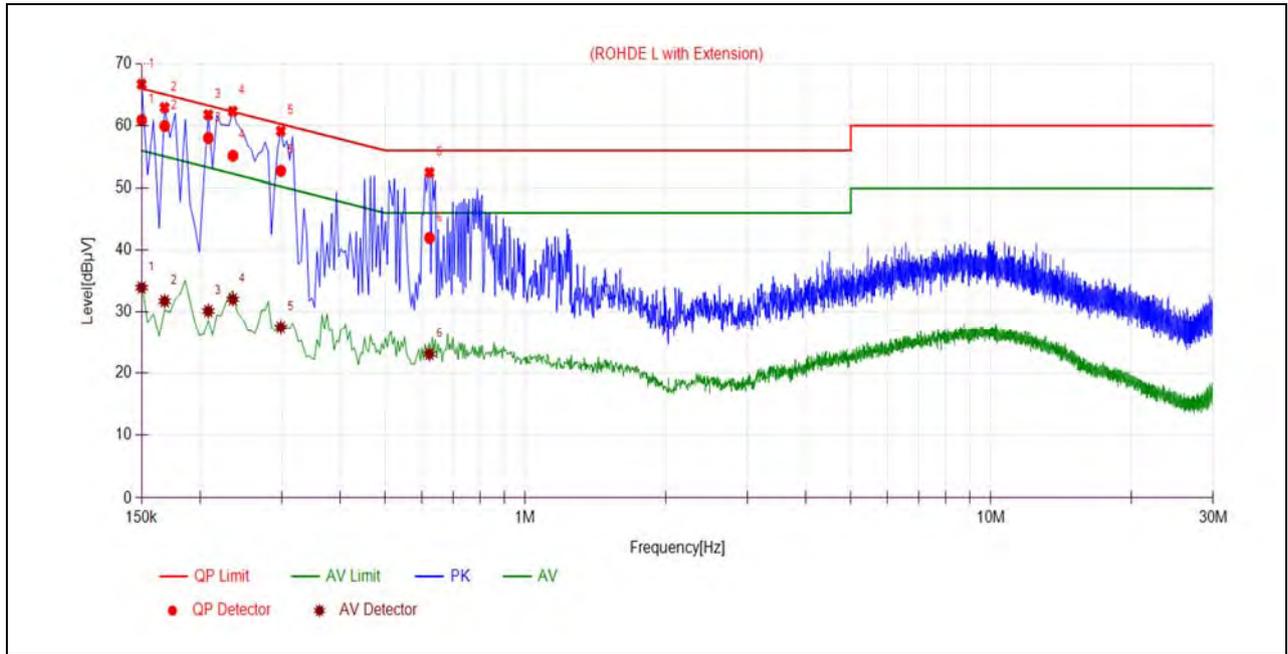
The measurement results are obtained as below:

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

$U_R$ : Receiver Reading

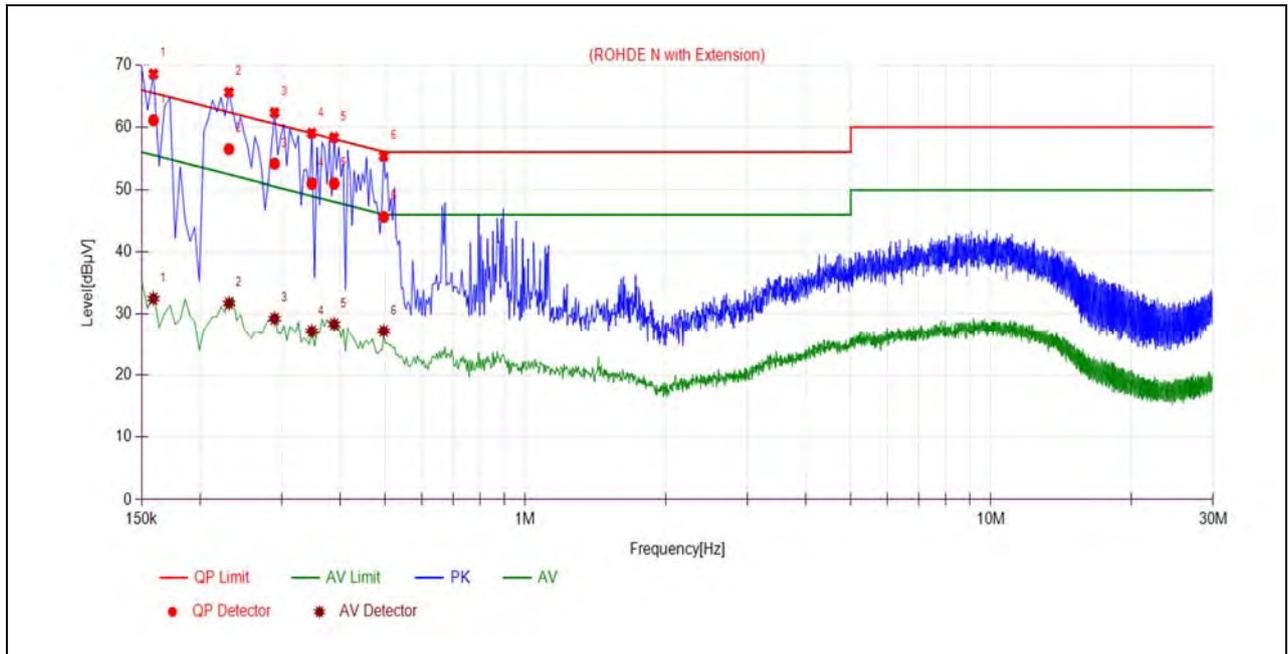
$A_{\text{Factor}}$ : Voltage division factor of LISN

**B. Test Plot:**



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1500	60.89	33.97	66.00	56.00	Line	PASS
2	0.1680	59.95	31.77	65.06	55.06		PASS
3	0.2085	58.02	30.16	63.26	53.26		PASS
4	0.2355	55.15	32.07	62.25	52.25		PASS
5	0.2985	52.71	27.49	60.29	50.29		PASS
6	0.6225	41.98	23.09	56.00	46.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1590	61.13	32.52	65.52	55.52	Neutral	PASS
2	0.2310	56.48	31.75	62.41	52.41		PASS
3	0.2895	54.13	29.26	60.54	50.54		PASS
4	0.3480	51.00	27.21	59.01	49.01		PASS
5	0.3885	51.01	28.36	58.10	48.10		PASS
6	0.4965	45.66	27.22	56.06	46.06		PASS

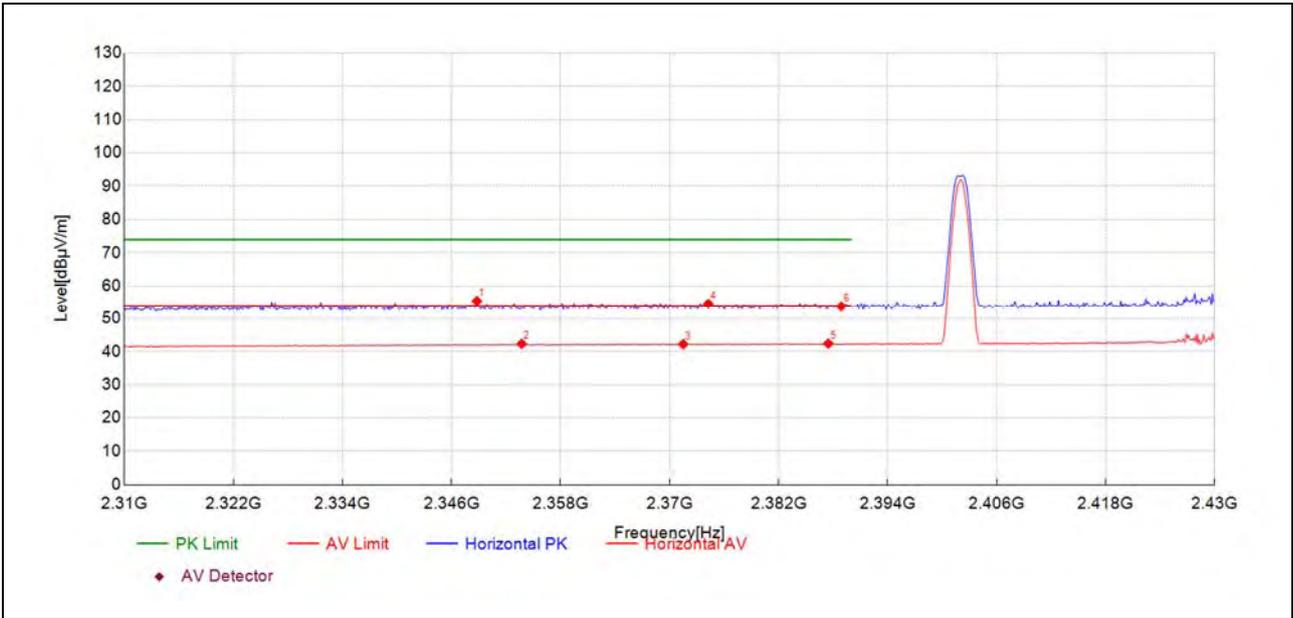


**A.9. Restricted Frequency Bands**

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

**1Mbps**

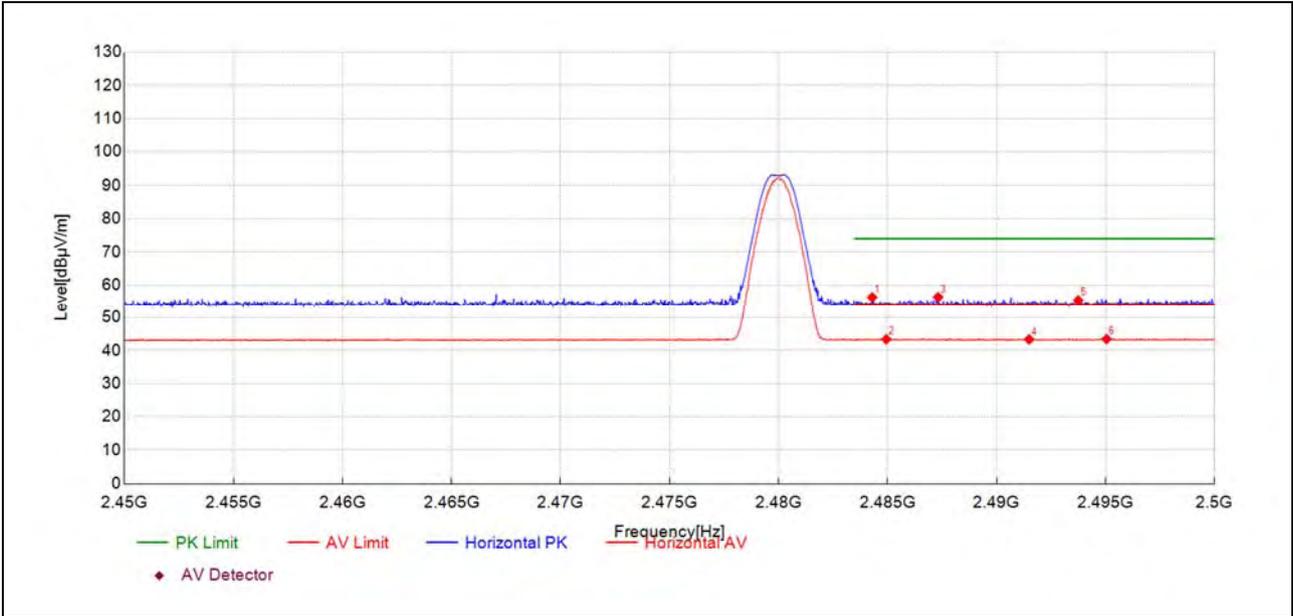
Plot for Channel 0



Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2348.80	23.0	55.42	32.390	74.00	18.58	150	338	PK	PASS
2353.72	9.9	42.31	32.420	54.00	11.69	150	344	AV	PASS
2371.50	9.7	42.21	32.470	54.00	11.79	150	360	AV	PASS
2374.26	22.1	54.60	32.490	74.00	19.40	150	54	PK	PASS
2387.48	9.9	42.38	32.530	54.00	11.62	150	111	AV	PASS
2388.92	21.2	53.77	32.540	74.00	20.23	150	17	PK	PASS



Plot for Channel 39

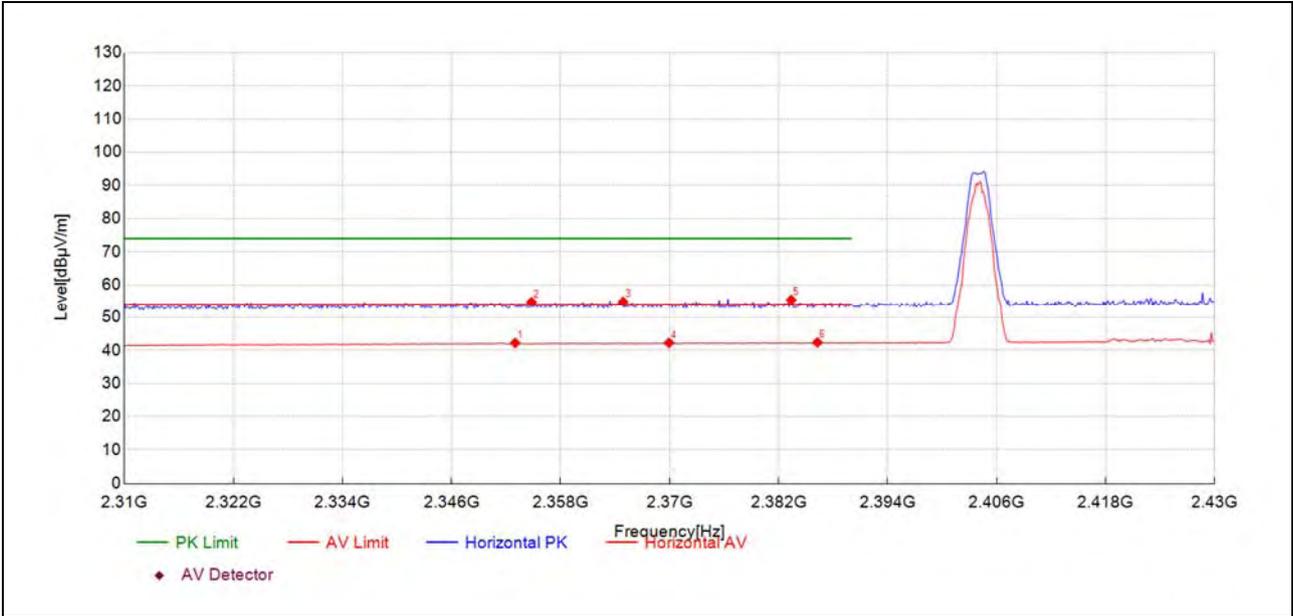


Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2484.29	23.2	56.27	33.030	74.00	17.73	150	0	PK	PASS
2484.94	10.3	43.36	33.030	54.00	10.64	150	224	AV	PASS
2487.32	23.3	56.33	33.030	74.00	17.67	150	69	PK	PASS
2491.50	10.3	43.31	33.020	54.00	10.69	150	0	AV	PASS
2493.75	22.4	55.36	33.010	74.00	18.64	150	341	PK	PASS
2495.05	10.4	43.44	33.010	54.00	10.56	150	341	AV	PASS



**2Mbps**

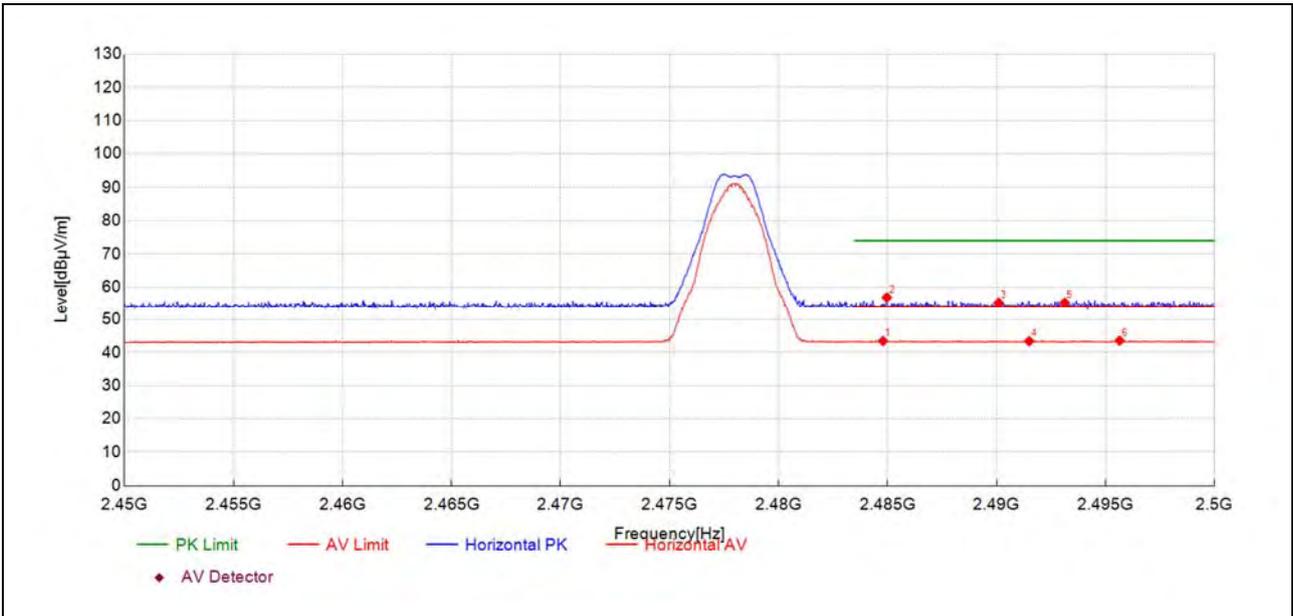
Plot for Channel 1



Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2353.00	9.8	42.18	32.410	54.00	11.82	150	94	AV	PASS
2354.80	22.3	54.76	32.420	74.00	19.24	150	72	PK	PASS
2364.89	22.4	54.83	32.450	74.00	19.17	150	166	PK	PASS
2369.94	9.8	42.23	32.470	54.00	11.77	150	80	AV	PASS
2383.39	22.9	55.42	32.520	74.00	18.58	150	115	PK	PASS
2386.28	9.8	42.37	32.530	54.00	11.63	150	115	AV	PASS



Plot for Channel 38



Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2484.79	10.4	43.45	33.030	54.00	10.55	150	41	AV	PASS
2484.97	23.8	56.84	33.030	74.00	17.16	150	188	PK	PASS
2490.10	22.2	55.24	33.020	74.00	18.76	150	188	PK	PASS
2491.50	10.4	43.40	33.020	54.00	10.60	150	11	AV	PASS
2493.12	22.3	55.27	33.010	74.00	18.73	150	310	PK	PASS
2495.65	10.6	43.56	33.010	54.00	10.44	150	172	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.

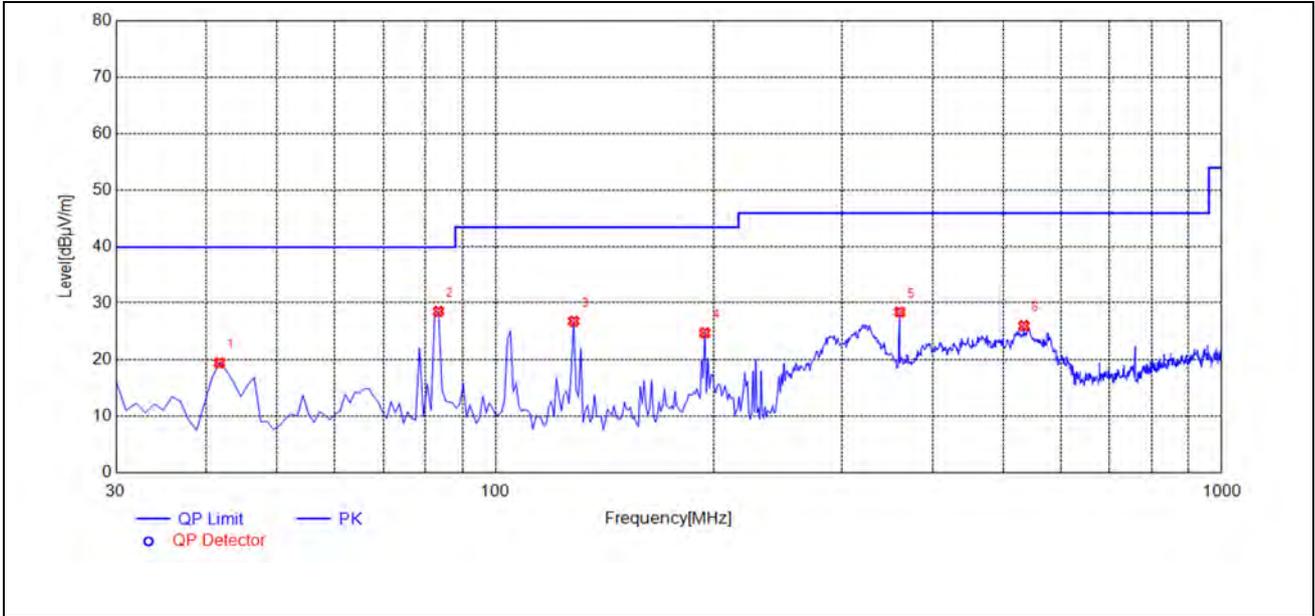
**Note3:** For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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



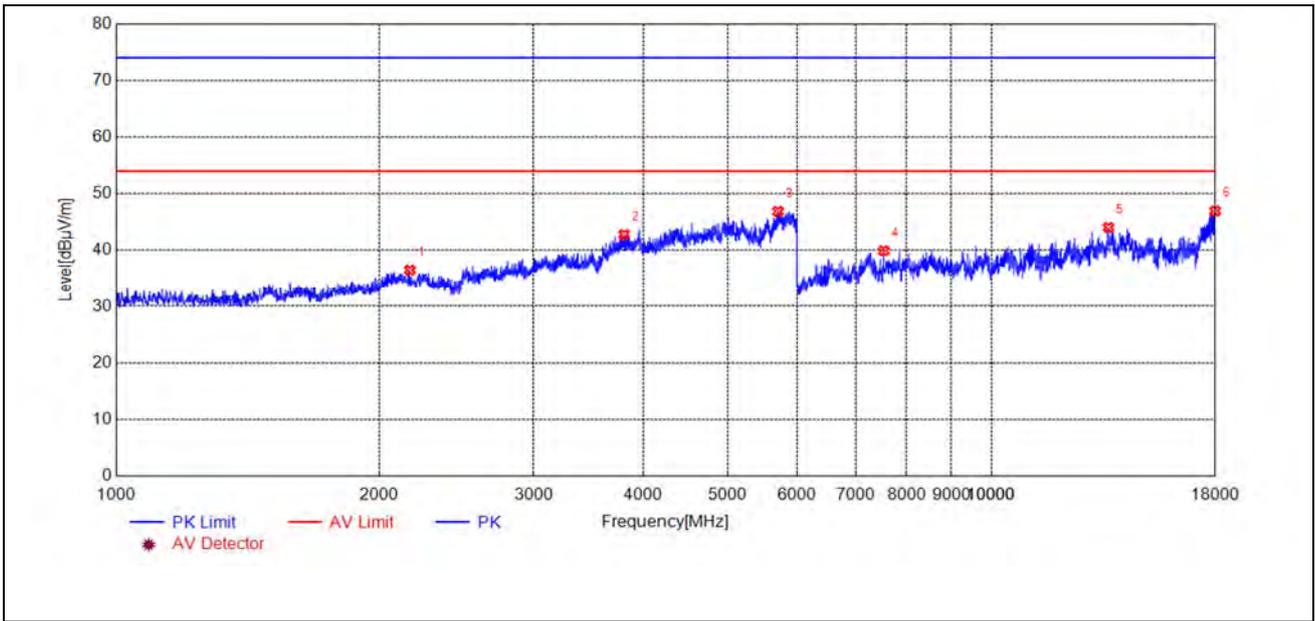
**1Mbps**

Plot for Channel 0



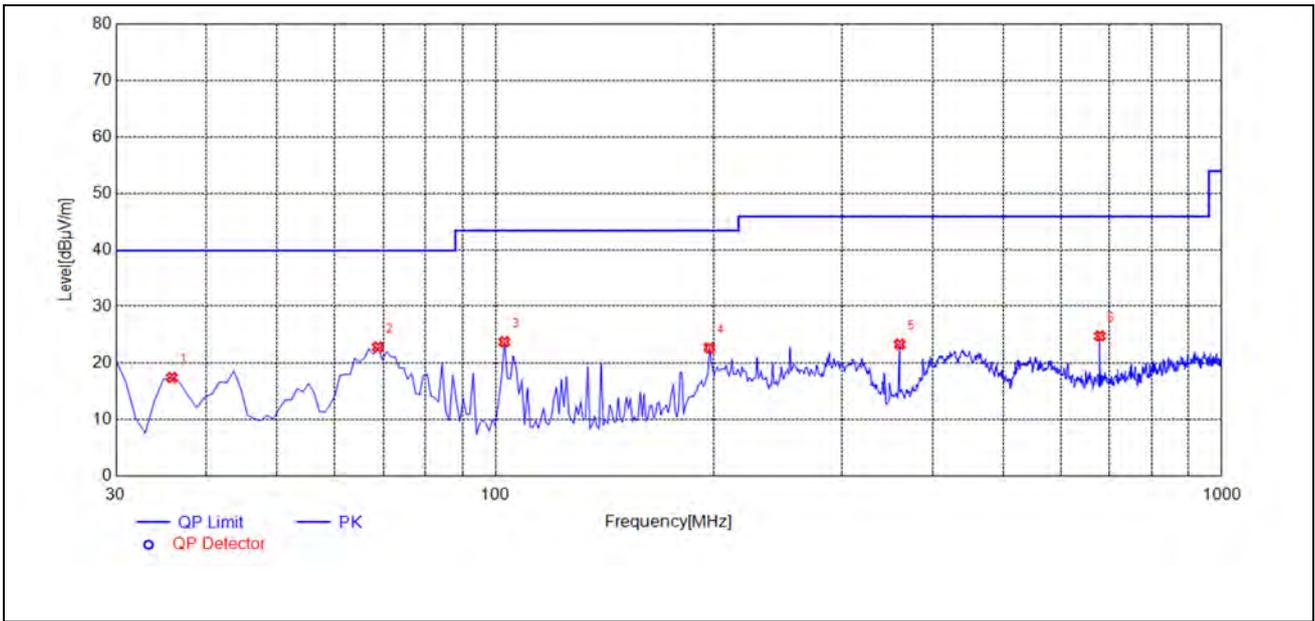
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
41.6517	19.40	-29.90	40.00	20.60	150	148	Horizontal	PASS
83.4034	28.49	-33.46	40.00	11.51	150	286	Horizontal	PASS
128.0681	26.76	-32.12	43.50	16.74	150	338	Horizontal	PASS
194.0941	24.71	-33.18	43.50	18.79	150	286	Horizontal	PASS
360.1301	28.38	-26.34	46.00	17.62	150	303	Horizontal	PASS
533.9339	25.96	-23.94	46.00	20.04	150	123	Horizontal	PASS



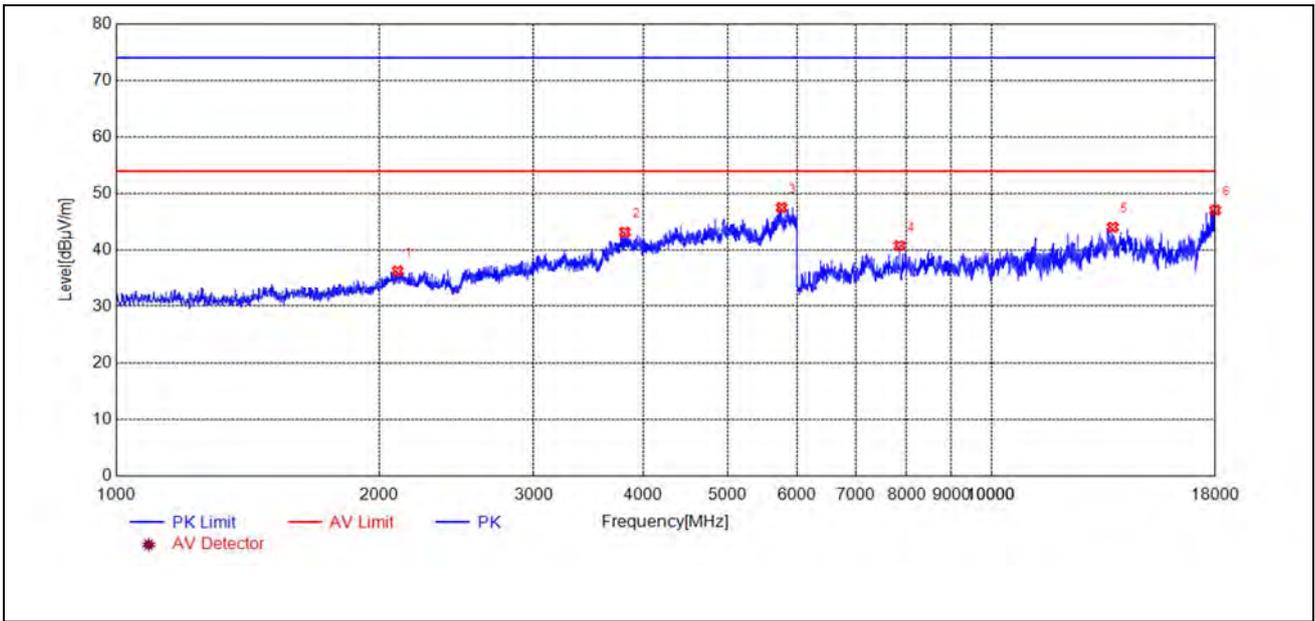
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
2166.2332	36.50	-20.67	74.00	37.50	150	337	Horizontal	PASS
3805.5611	42.81	-14.41	74.00	31.19	150	268	Horizontal	PASS
5703.9408	46.89	-7.48	74.00	27.11	150	322	Horizontal	PASS
7533.9068	39.95	-3.49	74.00	34.05	150	308	Horizontal	PASS
13599.9200	44.07	7.66	74.00	29.93	150	271	Horizontal	PASS
18000.0000	46.96	13.41	74.00	27.04	150	130	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

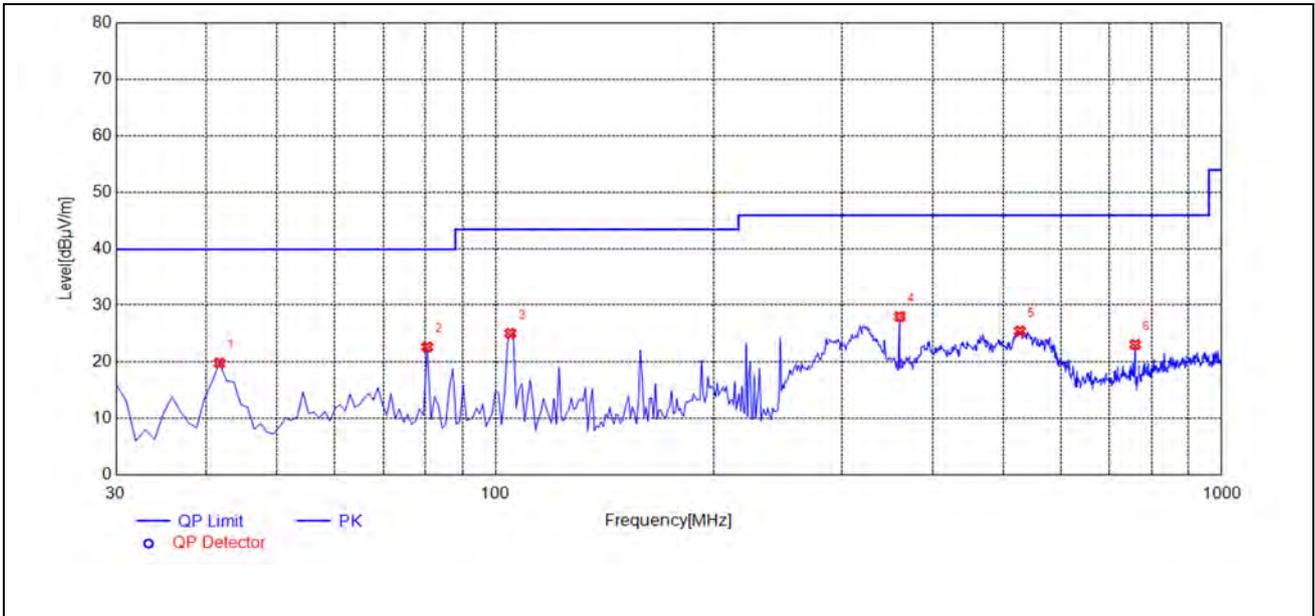
Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
35.8258	17.40	-36.91	40.00	22.60	150	22	Vertical	PASS
68.8388	22.77	-31.47	40.00	17.23	150	254	Vertical	PASS
102.8228	23.71	-30.97	43.50	19.79	150	0	Vertical	PASS
197.0070	22.65	-32.27	43.50	20.85	150	5	Vertical	PASS
360.1301	23.28	-26.34	46.00	22.72	150	74	Vertical	PASS
679.5796	24.74	-21.83	46.00	21.26	150	22	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

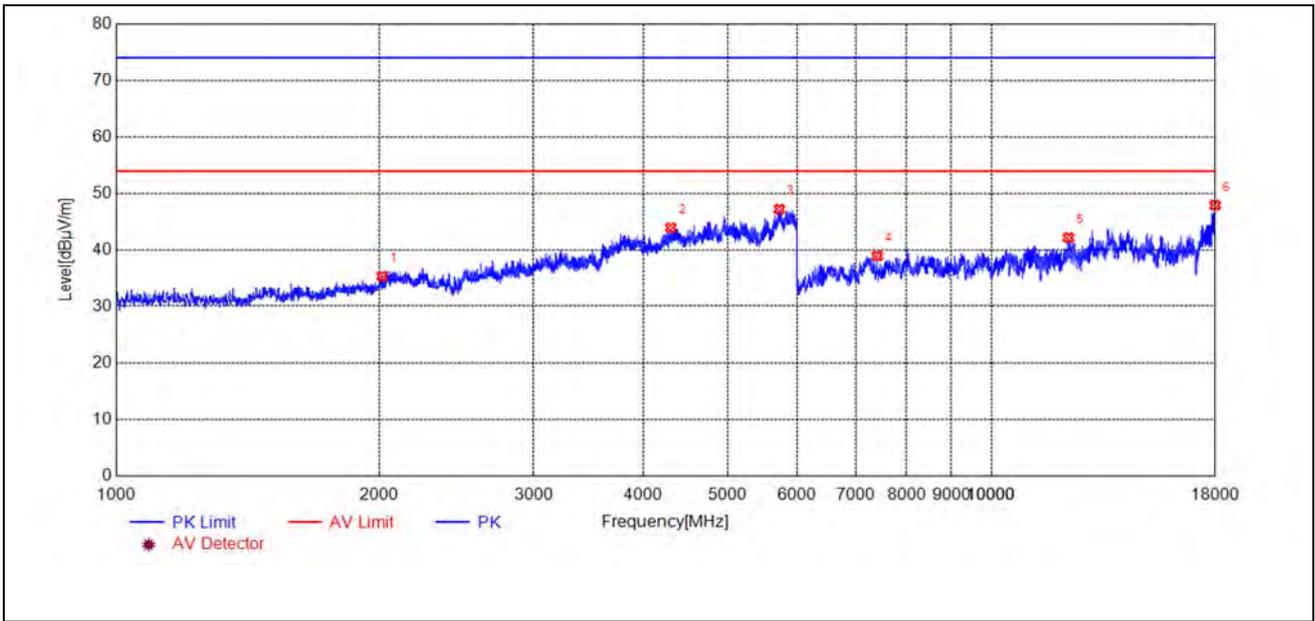
Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
2097.2194	36.38	-20.19	74.00	37.62	150	157	Vertical	PASS
3812.5625	43.22	-14.41	74.00	30.78	150	309	Vertical	PASS
5756.9514	47.56	-6.95	74.00	26.44	150	108	Vertical	PASS
7850.7702	40.86	-2.58	74.00	33.14	150	292	Vertical	PASS
13755.9512	44.11	7.13	74.00	29.89	150	161	Vertical	PASS
18000.0000	47.11	13.41	74.00	26.89	150	59	Vertical	PASS

Plot for Channel 19



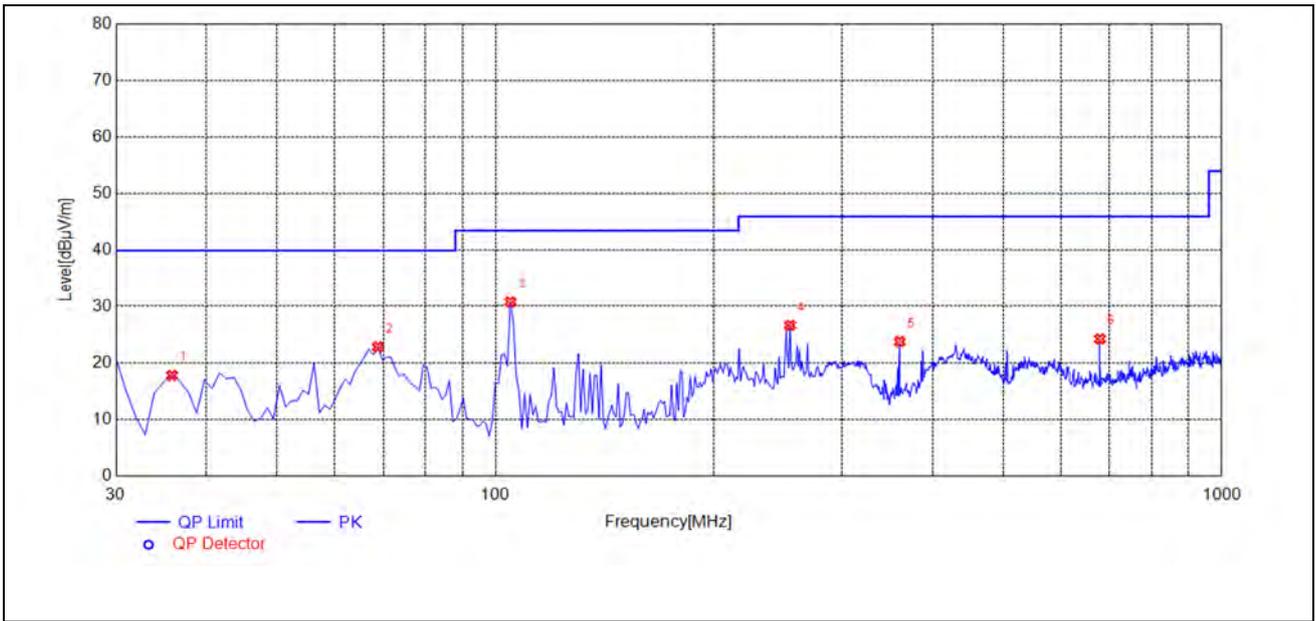
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
41.6517	19.77	-29.90	40.00	20.23	150	186	Horizontal	PASS
80.4905	22.59	-33.87	40.00	17.41	150	280	Horizontal	PASS
104.7648	24.98	-30.84	43.50	18.52	150	135	Horizontal	PASS
360.1301	27.95	-26.34	46.00	18.05	150	255	Horizontal	PASS
527.1371	25.39	-23.72	46.00	20.61	150	109	Horizontal	PASS
760.1702	23.01	-22.02	46.00	22.99	150	75	Horizontal	PASS



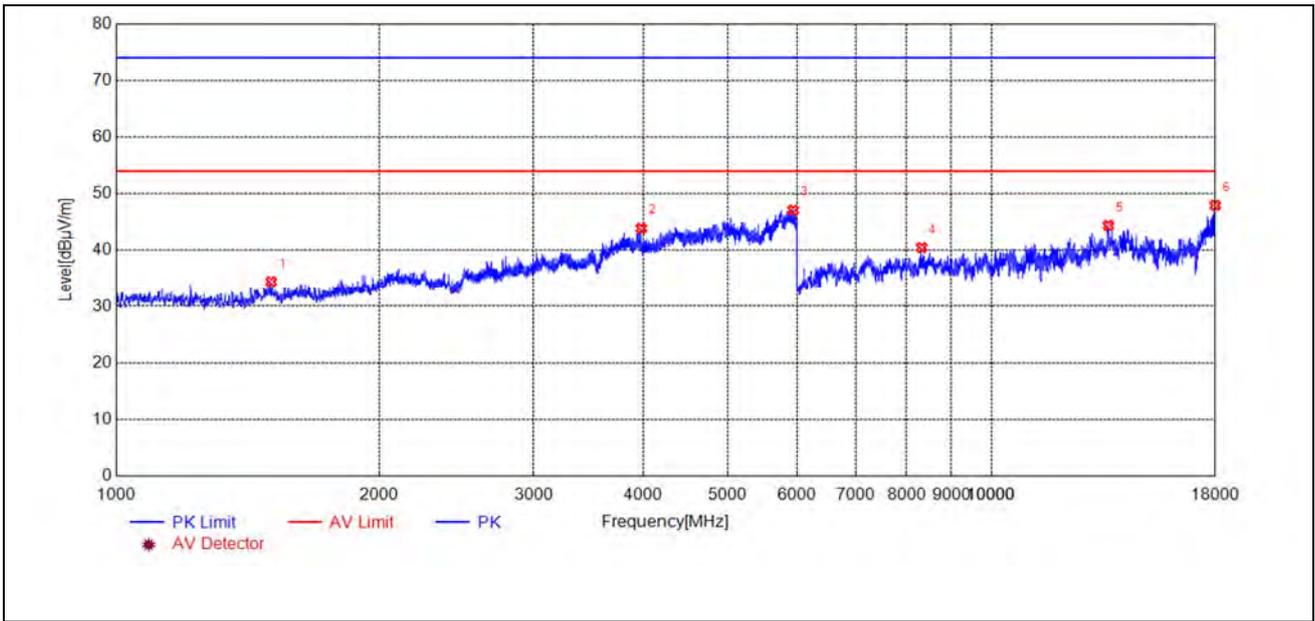
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
2014.2028	35.45	-21.48	74.00	38.55	150	18	Horizontal	PASS
4301.6603	44.01	-12.92	74.00	29.99	150	139	Horizontal	PASS
5722.9446	47.29	-7.17	74.00	26.71	150	300	Horizontal	PASS
7406.6813	39.04	-3.76	74.00	34.96	150	80	Horizontal	PASS
12241.2483	42.26	5.12	74.00	31.74	150	111	Horizontal	PASS
18000.0000	47.99	13.41	74.00	26.01	150	40	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

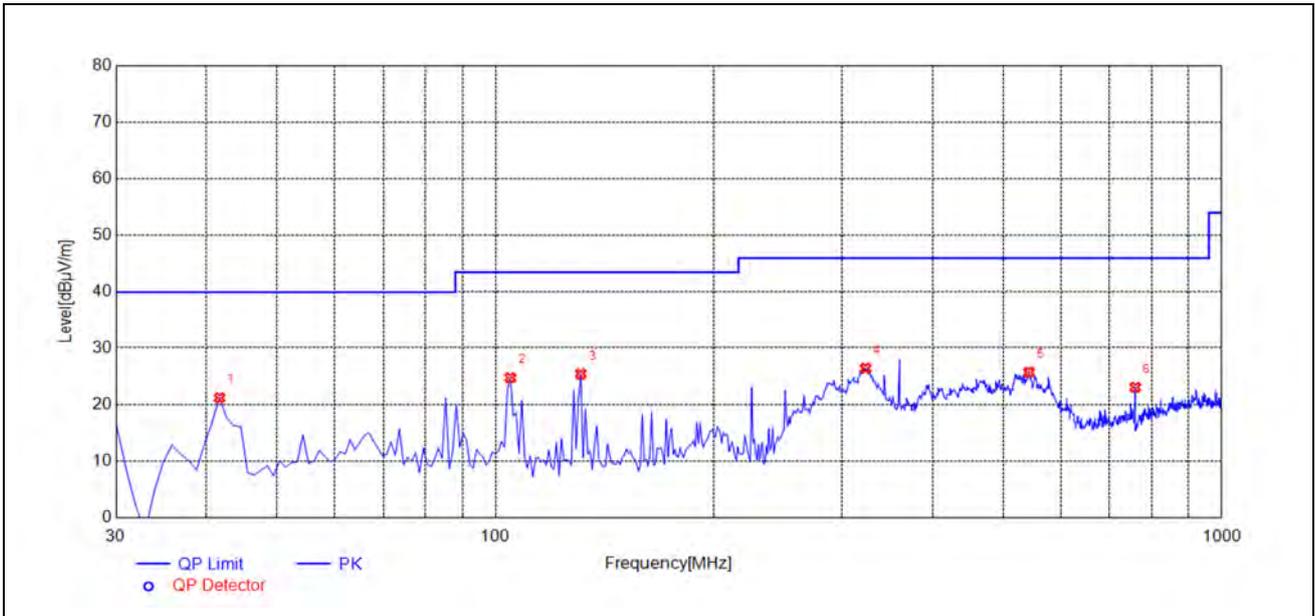
Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
35.8258	17.77	-36.91	40.00	22.23	150	88	Vertical	PASS
68.8388	22.81	-31.47	40.00	17.19	150	208	Vertical	PASS
104.7648	30.76	-30.84	43.50	12.74	150	285	Vertical	PASS
254.2943	26.62	-30.36	46.00	19.38	150	105	Vertical	PASS
360.1301	23.76	-26.34	46.00	22.24	150	268	Vertical	PASS
679.5796	24.22	-21.83	46.00	21.78	150	345	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

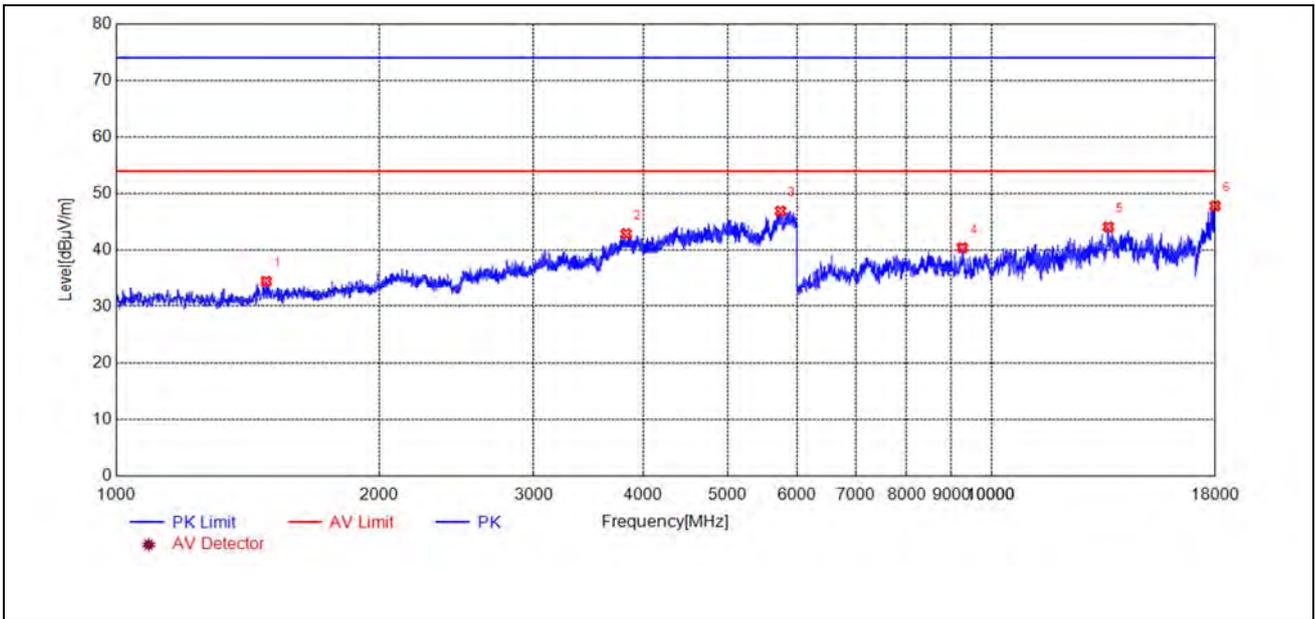
Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1504.1008	34.45	-23.06	74.00	39.55	150	289	Vertical	PASS
3981.5963	43.91	-14.26	74.00	30.09	150	188	Vertical	PASS
5933.9868	47.11	-6.52	74.00	26.89	150	68	Vertical	PASS
8318.8638	40.51	-2.01	74.00	33.49	150	62	Vertical	PASS
13597.5195	44.42	7.53	74.00	29.58	150	62	Vertical	PASS
18000.0000	47.98	13.41	74.00	26.02	150	223	Vertical	PASS

Plot for Channel 39



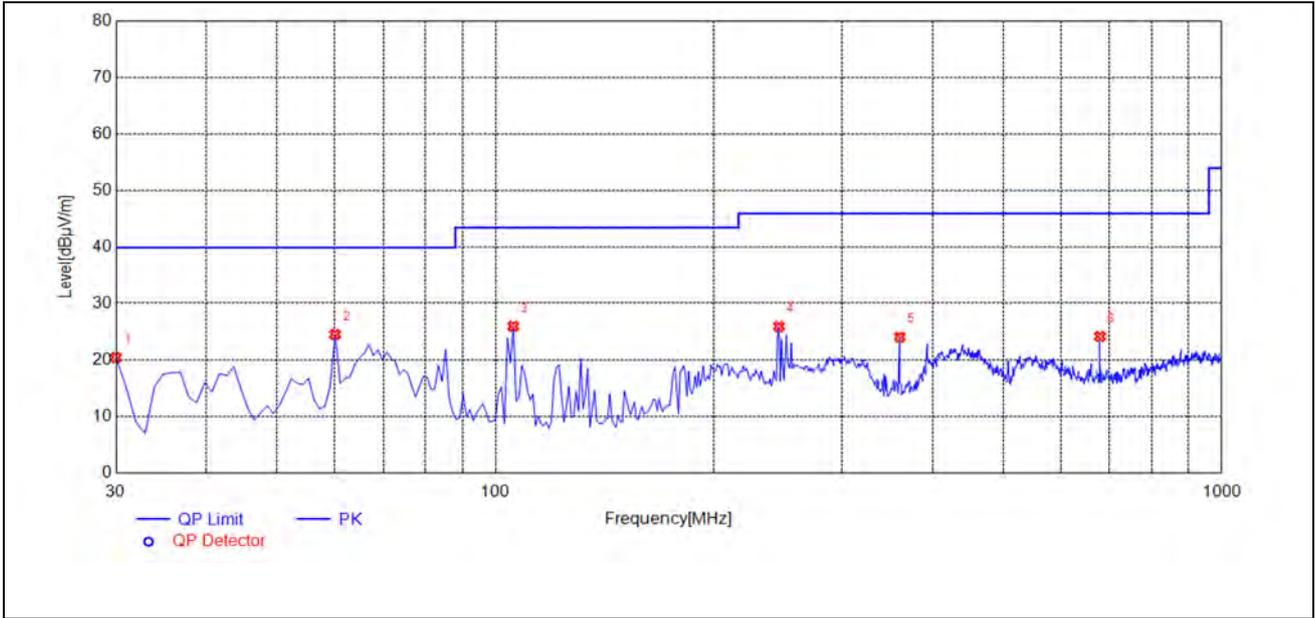
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
41.6517	21.18	-29.90	40.00	18.82	150	177	Horizontal	PASS
104.7648	24.72	-30.84	43.50	18.78	150	221	Horizontal	PASS
130.9810	25.38	-32.82	43.50	18.12	150	92	Horizontal	PASS
323.2332	26.42	-28.62	46.00	19.58	150	92	Horizontal	PASS
542.6727	25.70	-23.93	46.00	20.30	150	118	Horizontal	PASS
760.1702	23.03	-22.02	46.00	22.97	150	212	Horizontal	PASS



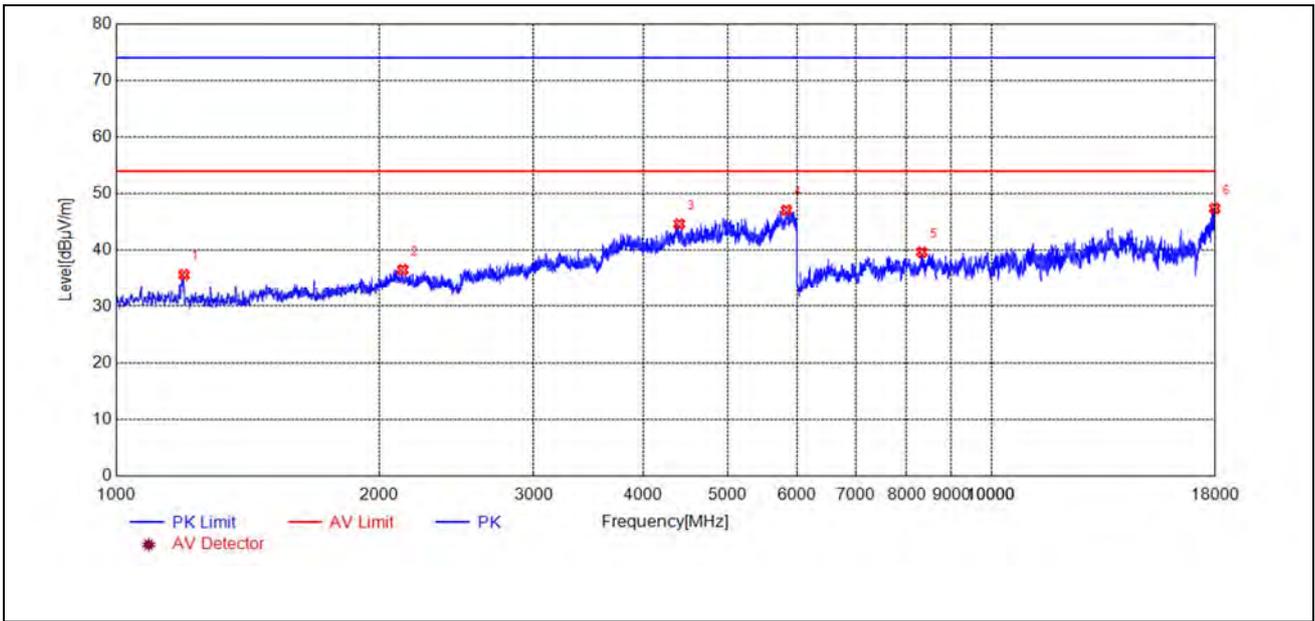
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1485.0970	34.55	-23.22	74.00	39.45	150	339	Horizontal	PASS
3824.5649	42.98	-14.41	74.00	31.02	150	178	Horizontal	PASS
5739.9480	46.94	-6.89	74.00	27.06	150	299	Horizontal	PASS
9262.2525	40.49	0.40	74.00	33.51	150	211	Horizontal	PASS
13599.9200	44.15	7.66	74.00	29.85	150	302	Horizontal	PASS
18000.0000	47.86	13.41	74.00	26.14	150	141	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
30.0000	20.40	-31.67	40.00	19.60	150	344	Vertical	PASS
60.1001	24.46	-29.65	40.00	15.54	150	63	Vertical	PASS
105.7357	25.91	-30.76	43.50	17.59	150	106	Vertical	PASS
245.5556	25.87	-30.48	46.00	20.13	150	319	Vertical	PASS
360.1301	23.99	-26.34	46.00	22.01	150	71	Vertical	PASS
679.5796	24.11	-21.83	46.00	21.89	150	199	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1196.0392	35.73	-24.60	74.00	38.27	150	18	Vertical	PASS
2126.2252	36.60	-20.28	74.00	37.40	150	107	Vertical	PASS
4397.6795	44.66	-12.04	74.00	29.34	150	158	Vertical	PASS
5829.9660	47.11	-7.48	74.00	26.89	150	318	Vertical	PASS
8326.0652	39.68	-1.93	74.00	34.32	150	182	Vertical	PASS
17983.1966	47.41	14.23	74.00	26.59	150	51	Vertical	PASS

————— END OF REPORT —————