



REPORT No.: SZ25040286W01

# TEST REPORT

**APPLICANT** : Realme Chongqing Mobile  
Telecommunications Corp., Ltd.

**PRODUCT NAME** : Smart Watch

**MODEL NAME** : RMW2501

**BRAND NAME** : realme

**FCC ID** : 2AUYFRMW2501

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

**RECEIPT DATE** : 2025-04-24

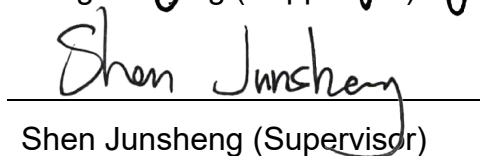
**TEST DATE** : 2025-04-30 to 2025-06-02

**ISSUE DATE** : 2025-06-19

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Change History		
Version	Date	Reason for change
1.0	2025-06-19	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	May 09, 2025	Li Zikai	PASS	/
3	15.247(b)	Maximum Peak Conducted Output Power	May 09, 2025	Li Zikai	PASS	/
4	15.247(b)	Maximum Average Conducted Output Power	May 09, 2025	Li Zikai	PASS	/
5	15.247(a)	Bandwidth	May 09, 2025	Li Zikai	PASS	/
6	15.247(d)	Conducted Spurious Emission and Band Edge	May 09, 2025	Li Zikai	PASS	/
7	15.247(e)	Power Spectral Density	May 09, 2025	Li Zikai	PASS	/
8	15.207	Conducted Emission	May 29, 2025	Fan Shengquan	PASS	/
9	15.247(d)	Restricted Frequency Bands	May 25, 2025	Li Hanbin	PASS	/
10	15.209, 15.247(d)	Radiated Emission	May 25, 2025	Li Hanbin	PASS	/

**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:** 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	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
				2025.05.13	2026.05.12
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
				2025.05.13	2026.05.12
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
				2025.05.13	2026.05.12
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2024.05.30	2025.05.29
				2025.05.13	2026.05.12
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2024.05.30	2025.05.29
				2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2024.05.30	2025.05.29
				2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2024.05.30	2025.05.29
				2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2024.05.30	2025.05.29
				2025.05.13	2026.05.12
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	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	$\pm 2.22\text{dB}$	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
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<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>	Realme Chongqing Mobile Telecommunications Corp., Ltd.
<b>Applicant Address:</b>	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
<b>Manufacturer:</b>	Realme Chongqing Mobile Telecommunications Corp., Ltd.
<b>Manufacturer Address:</b>	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

### 2.2. Information of EUT

<b>Product Name:</b>	Smart Watch	
<b>Sample No.:</b>	2#, 3#, 7#	
<b>Hardware Version:</b>	MS2502_V1.0	
<b>Software Version:</b>	1.00.01	
<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>	-3.00dBi	
<b>Accessory Information:</b>	Battery	
	Brand Name:	N/A
	Model No.:	ZWD532626V
	Serial No.:	N/A
	Capacity:	460mAh
	Rated Voltage:	3.80V
	Charge Limit:	4.35V
	Manufacturer:	ZHONGSHAN ZHONGWANGDE NEW ENERGY TECHNOLOGY 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

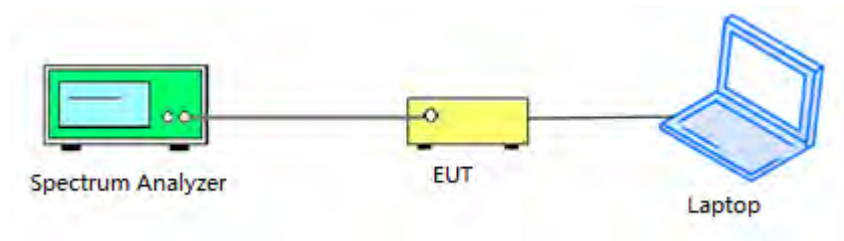
The EUT is controlled by dedicated software to transmit at the default maximum power level.

## 2.5. Test Conditions

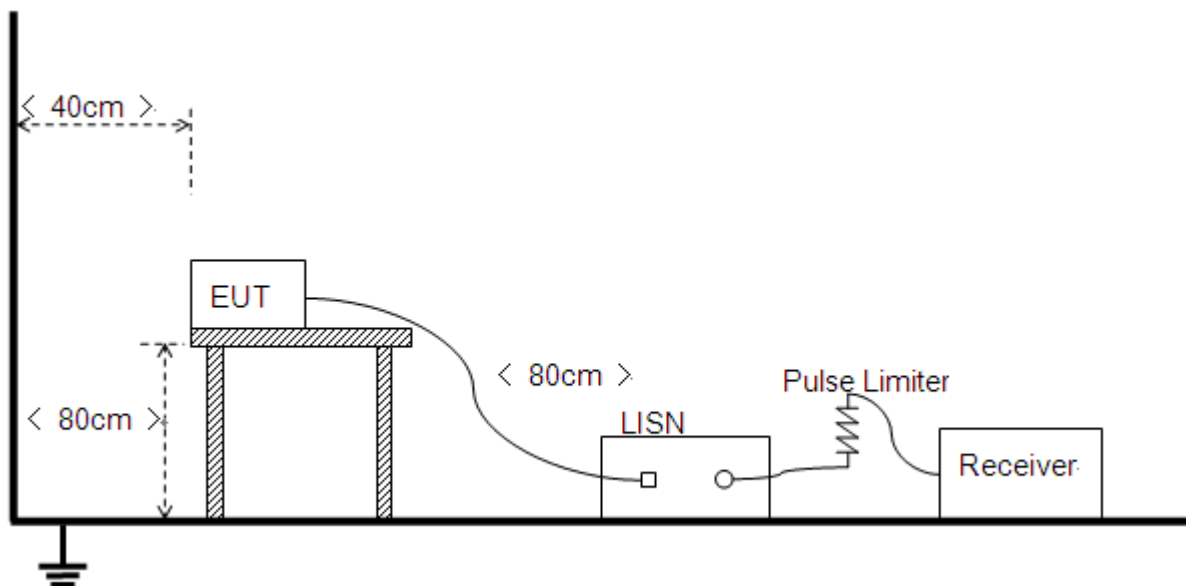
Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

## 2.6. Test Setup Layout Diagram

### 2.6.1. Conducted Measurement

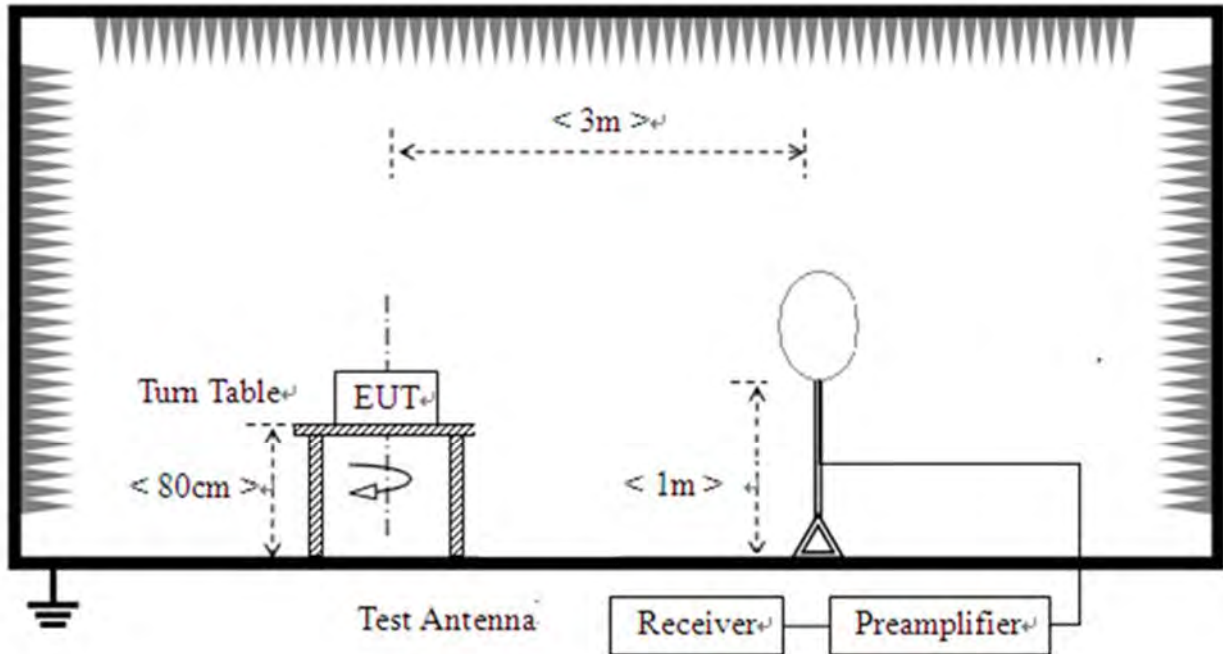


### 2.6.2. Conducted Emission Measurement

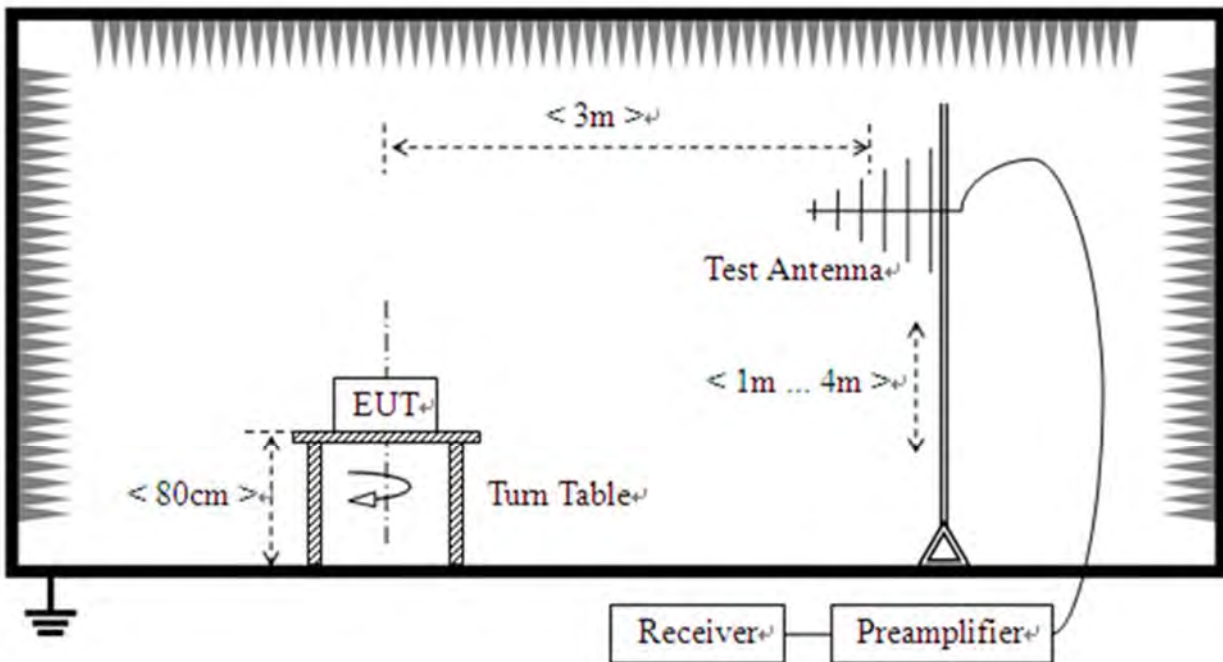


### 2.6.3.Radiation Measurement

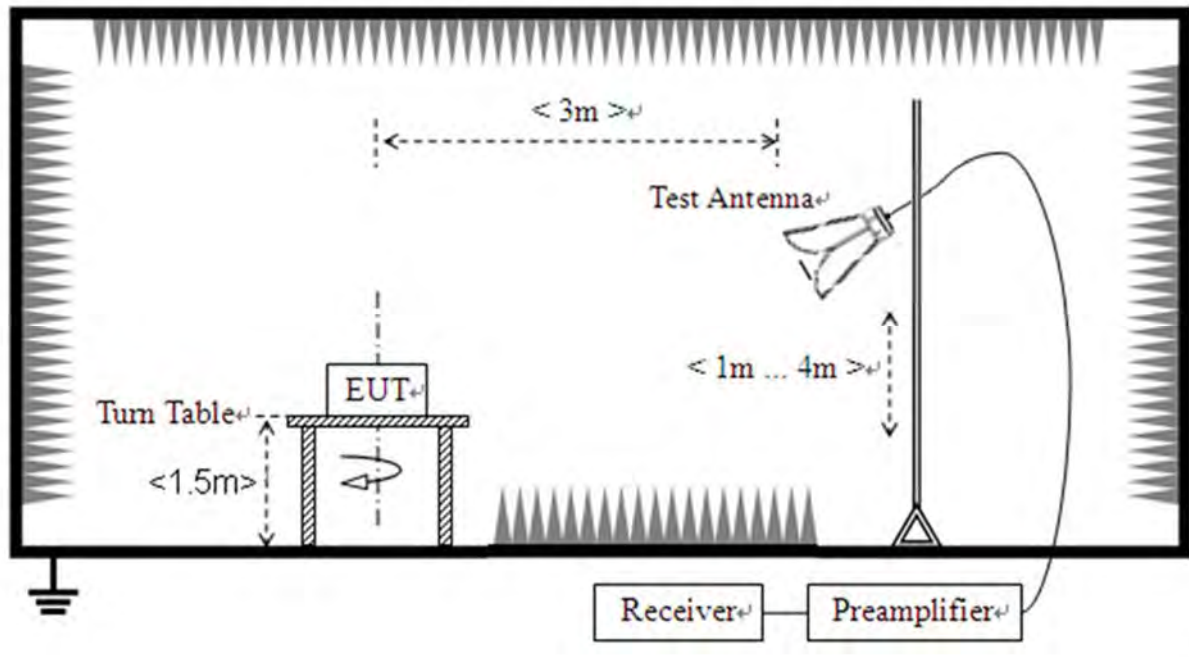
1) For radiated emissions from 9kHz to 30MHz



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 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"/> Metal Frame 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: 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

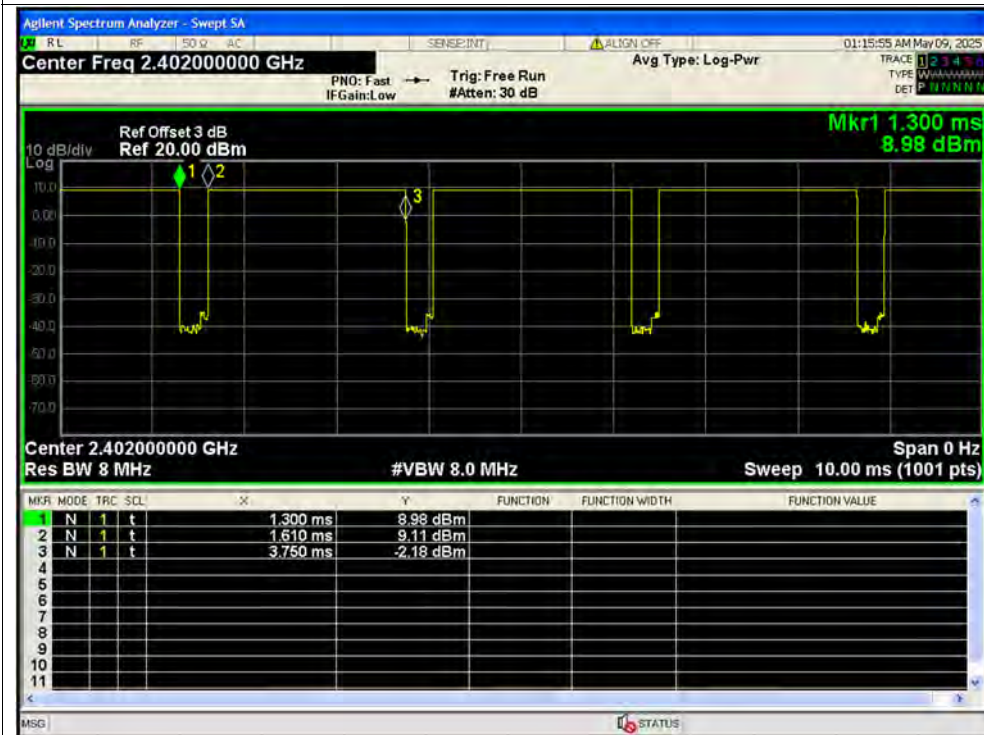
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	87.35	0.59	0.47
NVNT	BLE 1M	2440	Ant1	87.7	0.57	0.47
NVNT	BLE 1M	2480	Ant1	87.3	0.59	0.47
NVNT	BLE 2M	2402	Ant1	77.7	1.1	0.93
NVNT	BLE 2M	2440	Ant1	78.42	1.06	0.92
NVNT	BLE 2M	2480	Ant1	77.7	1.1	0.93



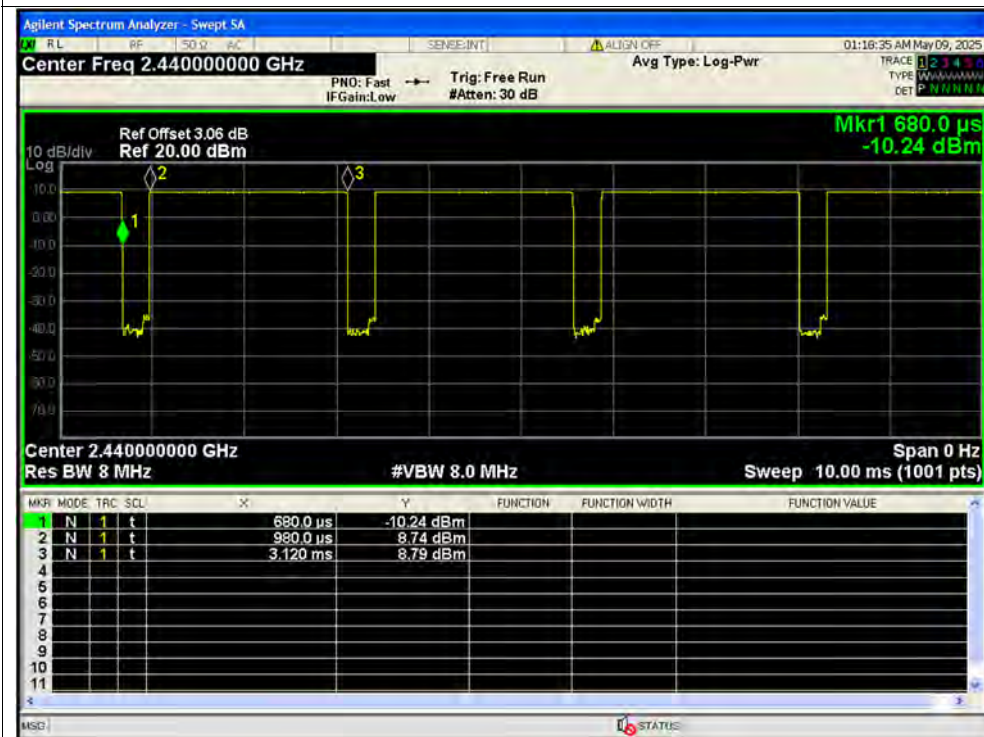


## Test Graphs

## Duty Cycle NVNT BLE 1M 2402MHz Ant1

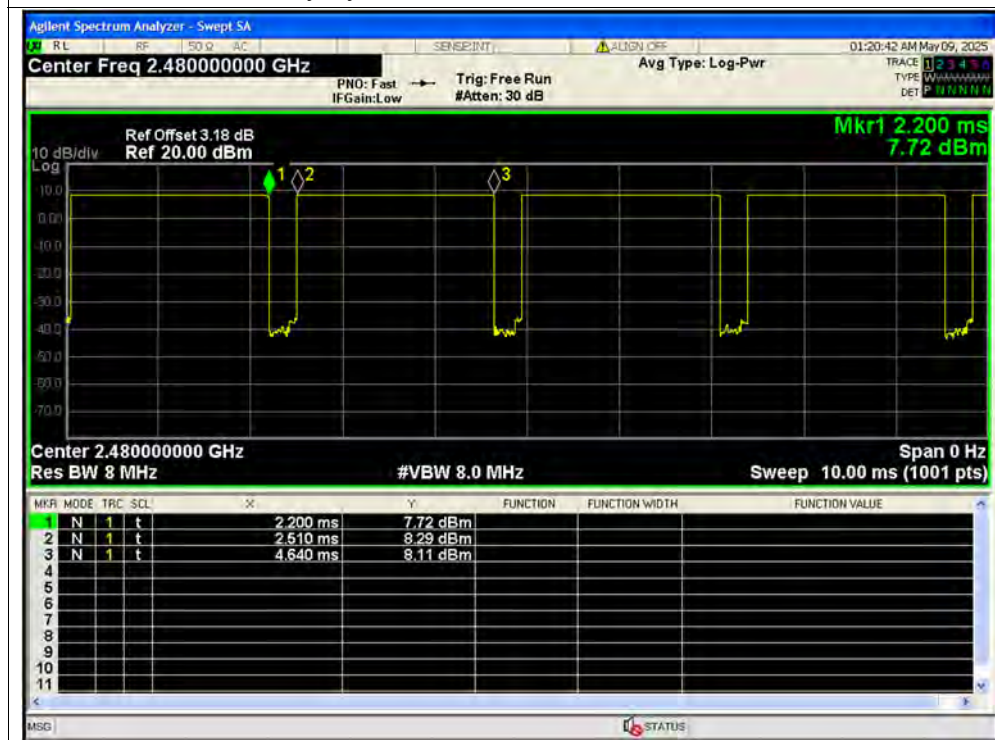


## Duty Cycle NVNT BLE 1M 2440MHz Ant1

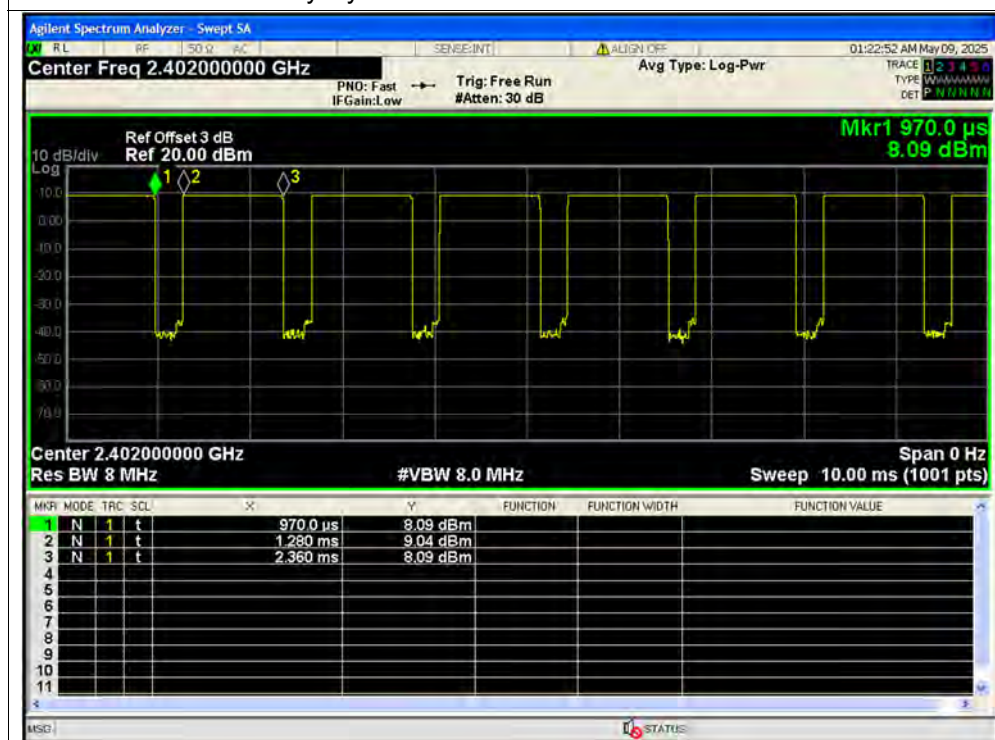




## Duty Cycle NVNT BLE 1M 2480MHz Ant1

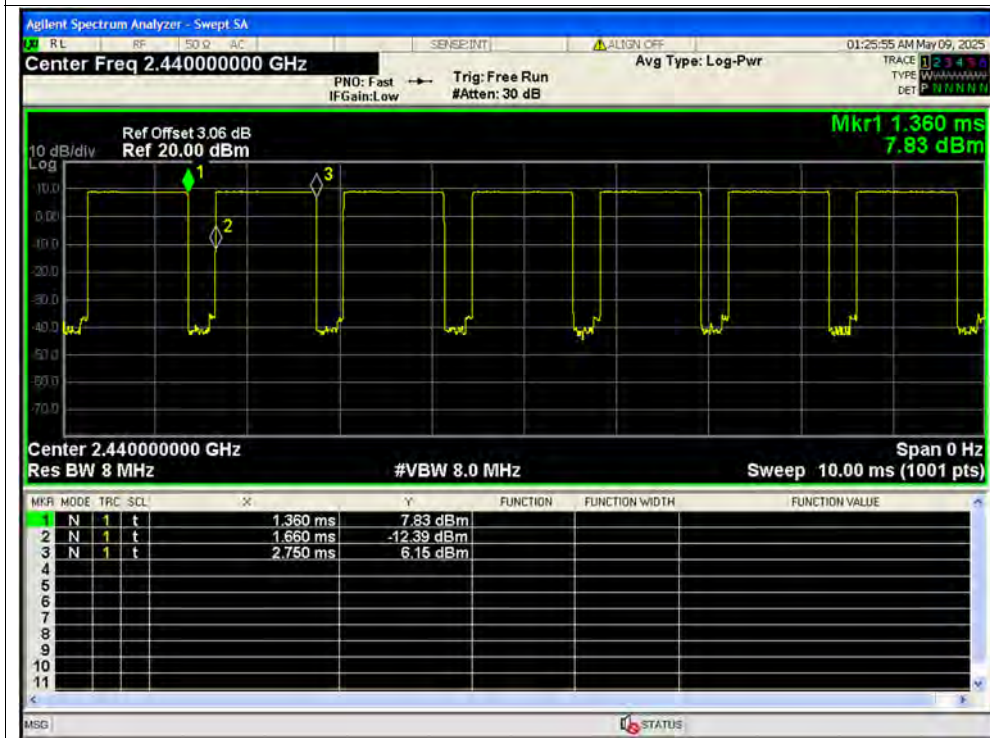


## Duty Cycle NVNT BLE 2M 2402MHz Ant1

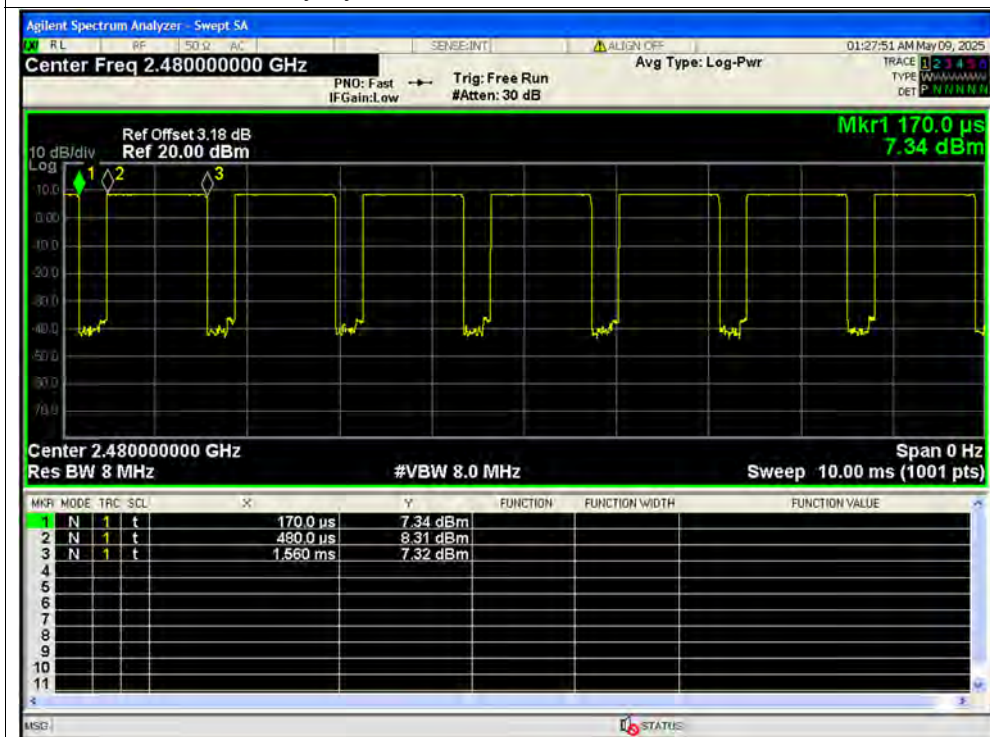




## Duty Cycle NVNT BLE 2M 2440MHz Ant1



## Duty Cycle NVNT BLE 2M 2480MHz Ant1



**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	11.35	0	11.35	0.01365	30	Pass
NVNT	BLE 1M	2440	Ant1	11.13	0	11.13	0.01297	30	Pass
NVNT	BLE 1M	2480	Ant1	10.63	0	10.63	0.01156	30	Pass
NVNT	BLE 2M	2402	Ant1	11.17	0	11.17	0.01309	30	Pass
NVNT	BLE 2M	2440	Ant1	10.96	0	10.96	0.01247	30	Pass
NVNT	BLE 2M	2480	Ant1	10.48	0	10.48	0.01117	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



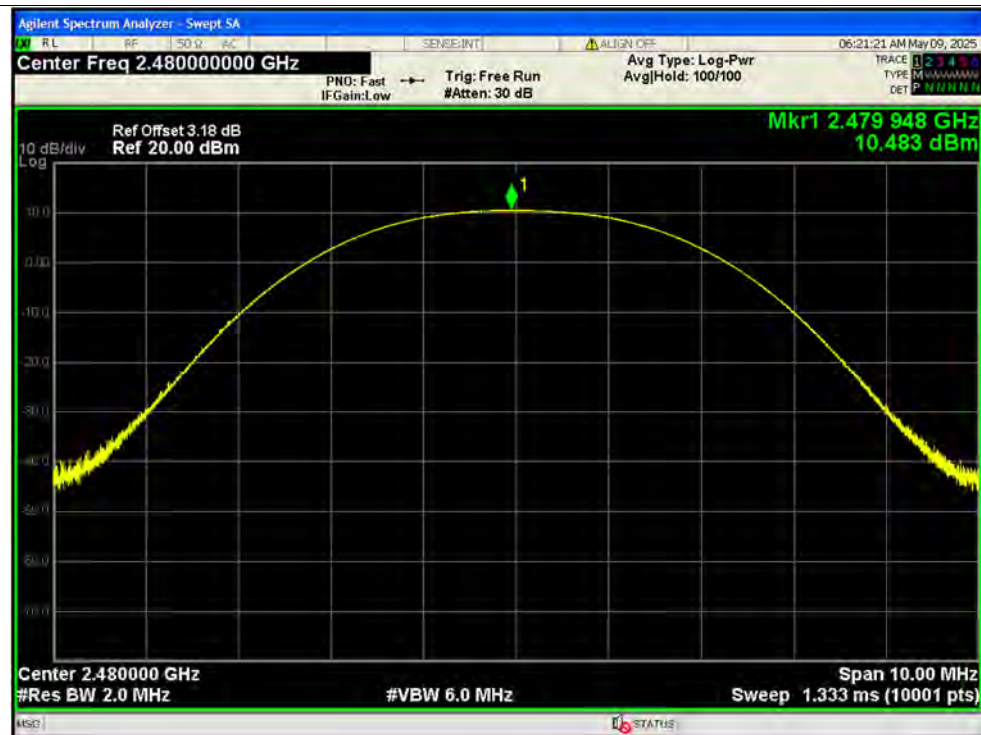
### Peak Power NVNT BLE 2M 2402MHz Ant1



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



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



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

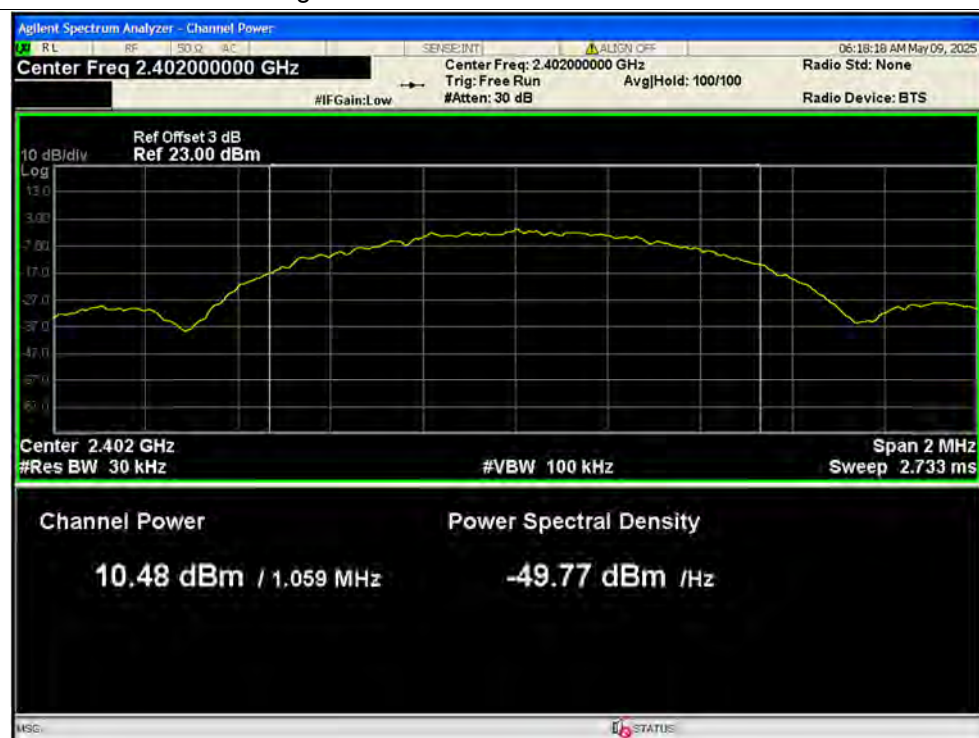
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	10.48	0.59	11.07	0.01279	30	Pass
NVNT	BLE 1M	2440	Ant1	10.31	0.57	10.88	0.01225	30	Pass
NVNT	BLE 1M	2480	Ant1	9.72	0.59	10.31	0.01074	30	Pass
NVNT	BLE 2M	2402	Ant1	9.38	1.1	10.48	0.01117	30	Pass
NVNT	BLE 2M	2440	Ant1	9.35	1.06	10.41	0.01099	30	Pass
NVNT	BLE 2M	2480	Ant1	8.78	1.1	9.88	0.00973	30	Pass





## Test Graphs

## Average Power NVNT BLE 1M 2402MHz Ant1

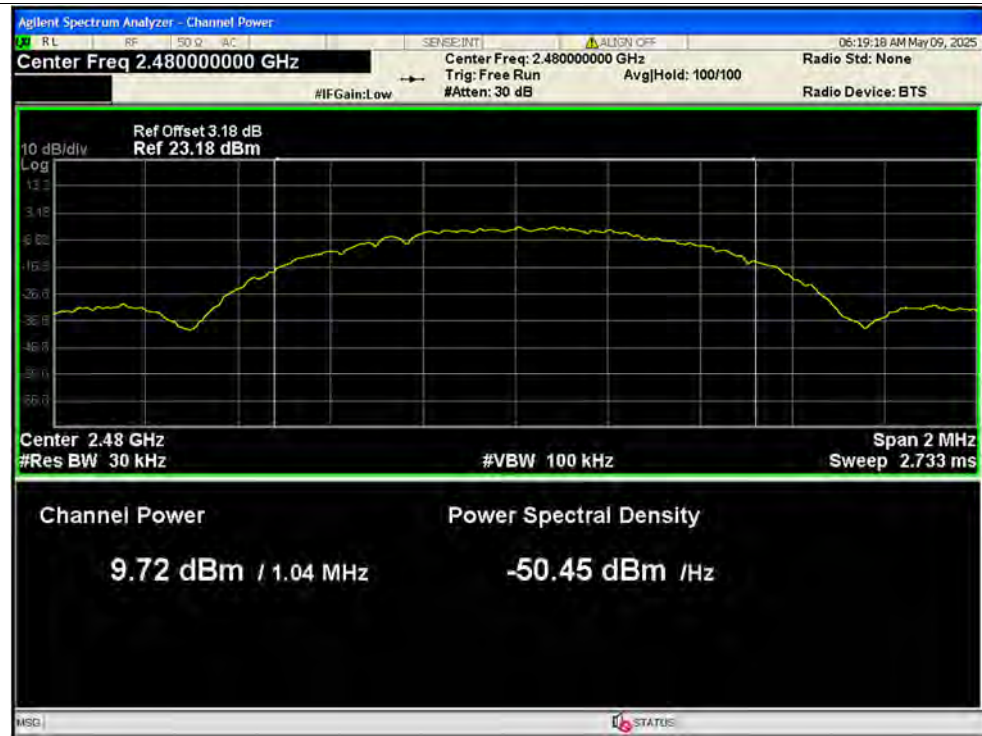


## Average Power NVNT BLE 1M 2440MHz Ant1





## Average Power NVNT BLE 1M 2480MHz Ant1

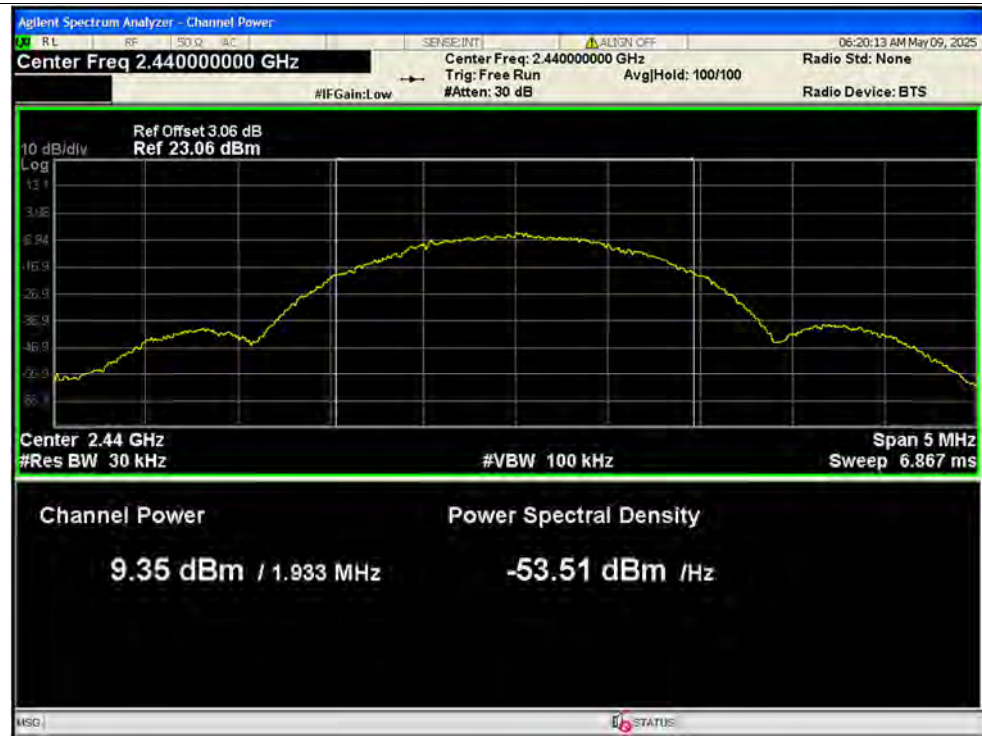


## Average Power NVNT BLE 2M 2402MHz Ant1





## 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	0.7026	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.6621	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.6543	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.145	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.144	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.143	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	-47.7	-20	Pass
NVNT	BLE 1M	2440	Ant1	-46.83	-20	Pass
NVNT	BLE 1M	2480	Ant1	-46.36	-20	Pass
NVNT	BLE 2M	2402	Ant1	-46.95	-20	Pass
NVNT	BLE 2M	2440	Ant1	-45.87	-20	Pass
NVNT	BLE 2M	2480	Ant1	-45.31	-20	Pass

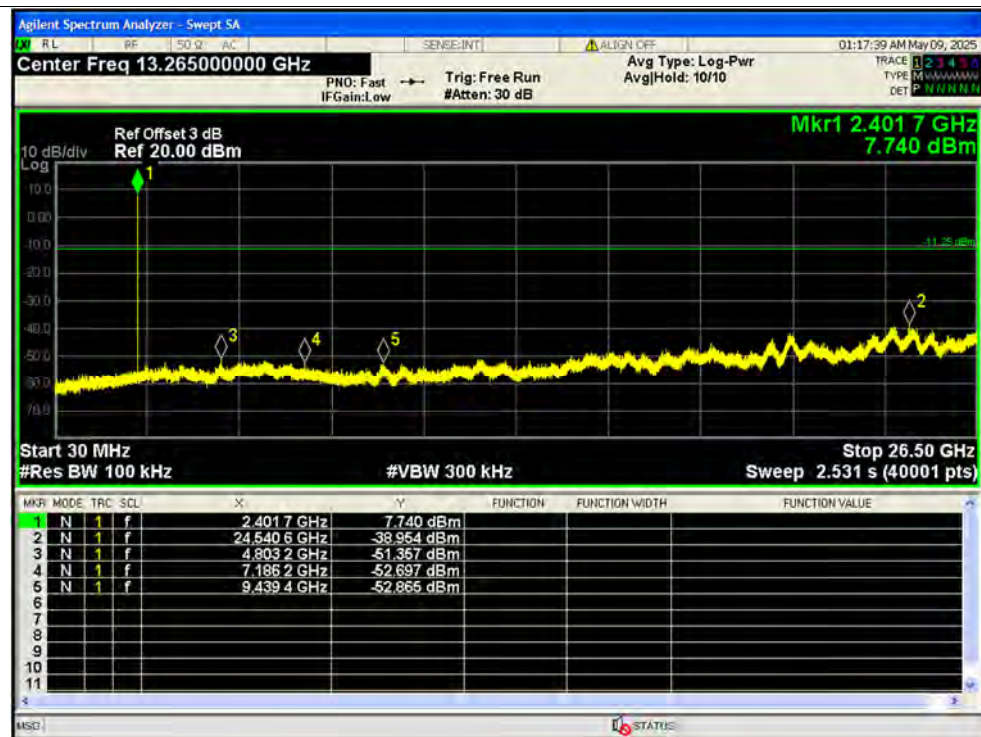


## Test Graphs

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



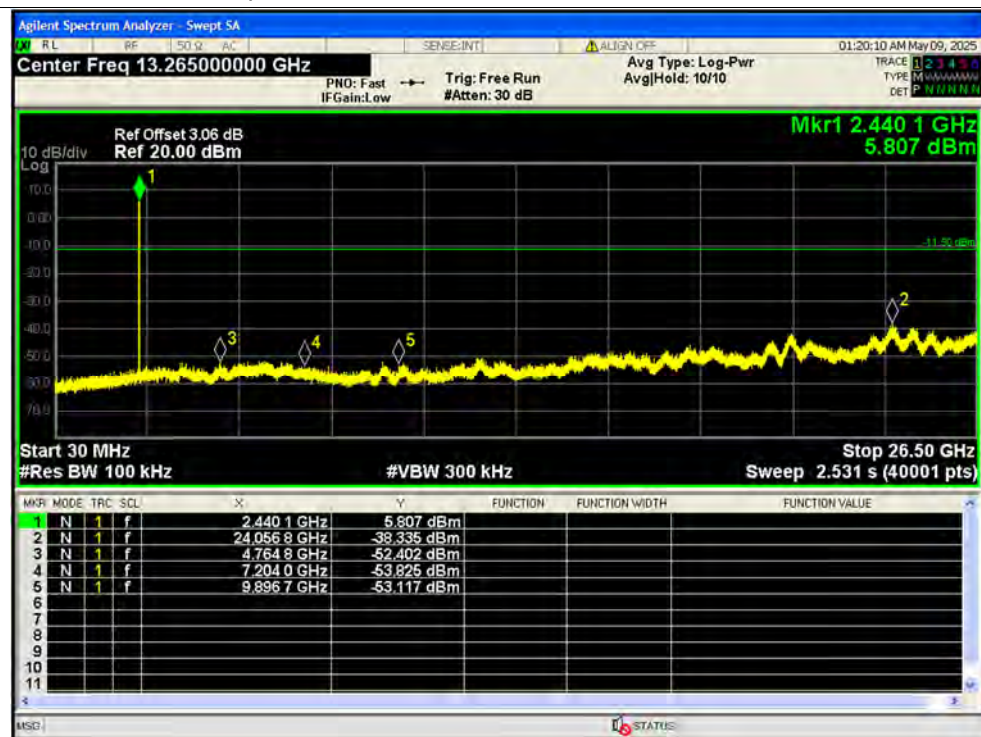
## Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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



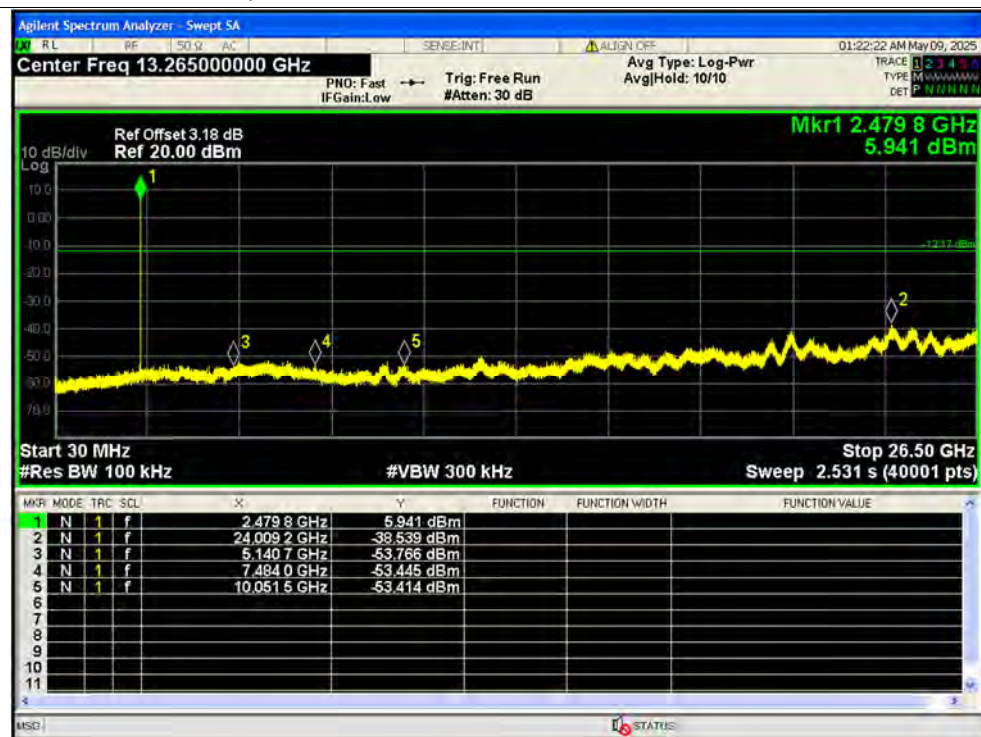
## Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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



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

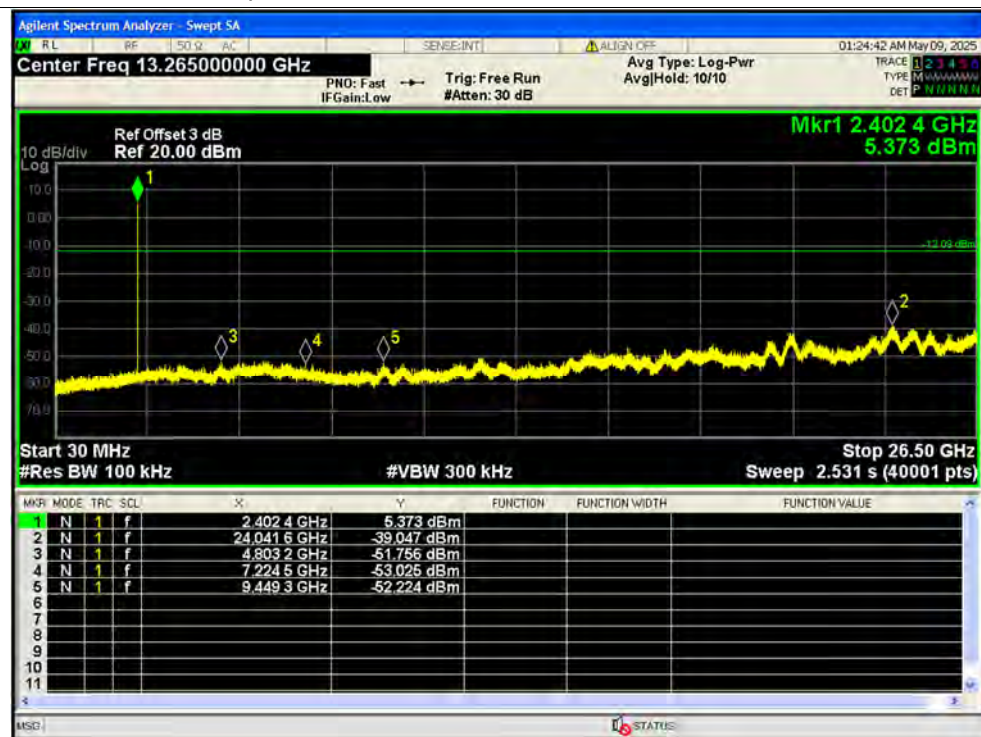




## Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



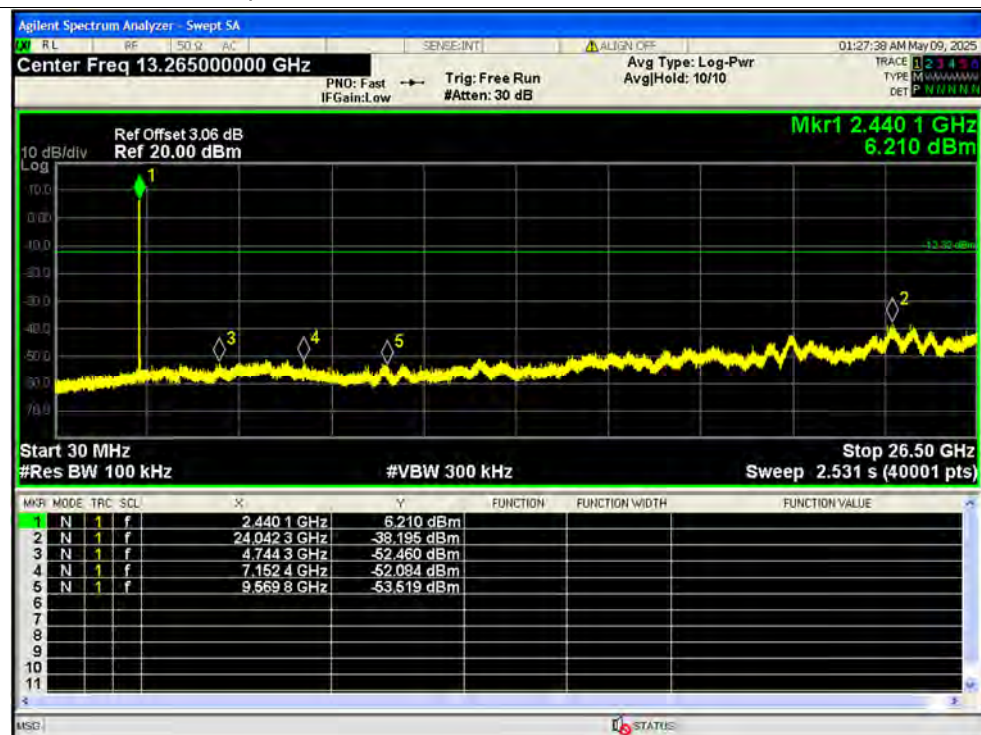
## Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



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



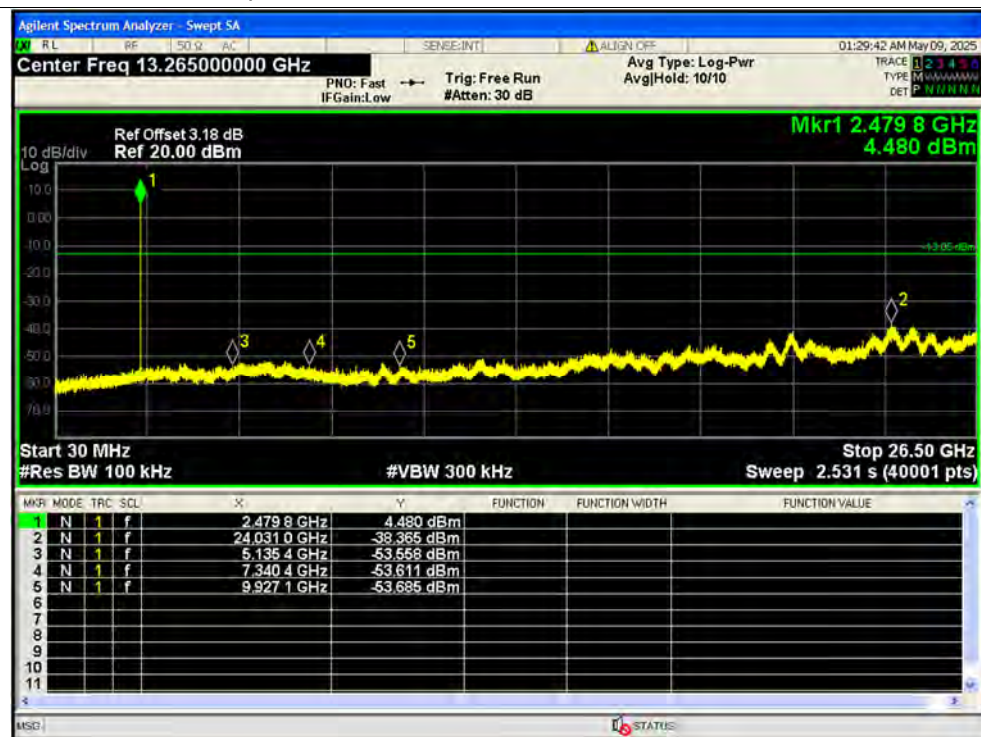
## Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



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



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





REPORT No.: SZ25040286W01

#### A.6. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-52.78	-20	Pass
NVNT	BLE 1M	2480	Ant1	-61.63	-20	Pass
NVNT	BLE 2M	2402	Ant1	-40.61	-20	Pass
NVNT	BLE 2M	2480	Ant1	-60.65	-20	Pass

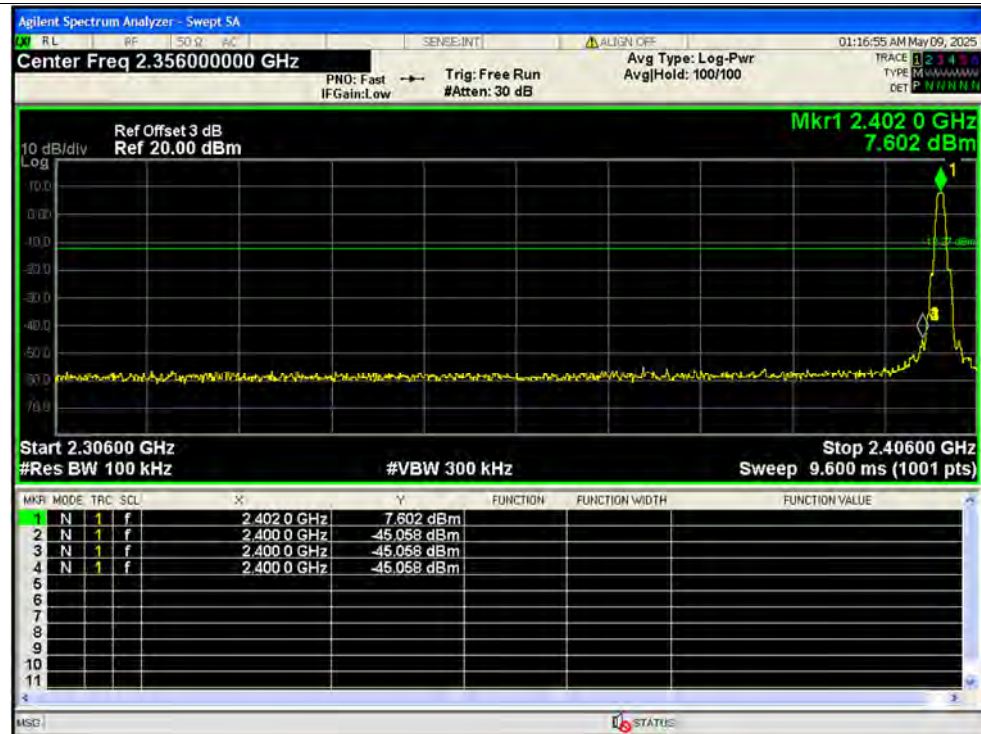


## Test Graphs

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



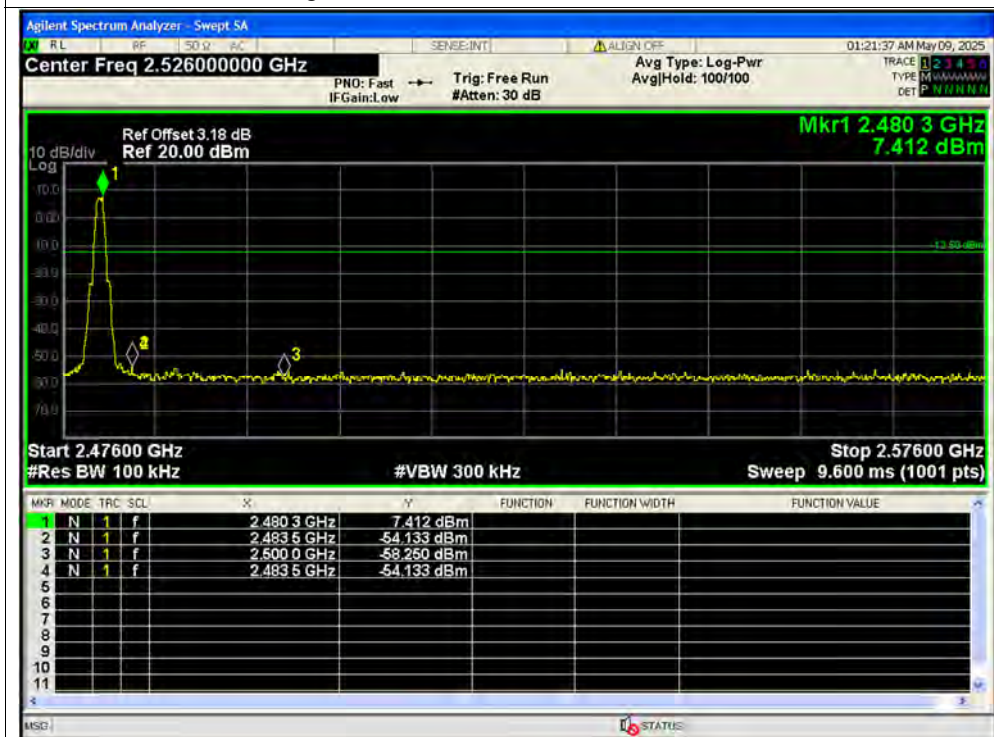
## Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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



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

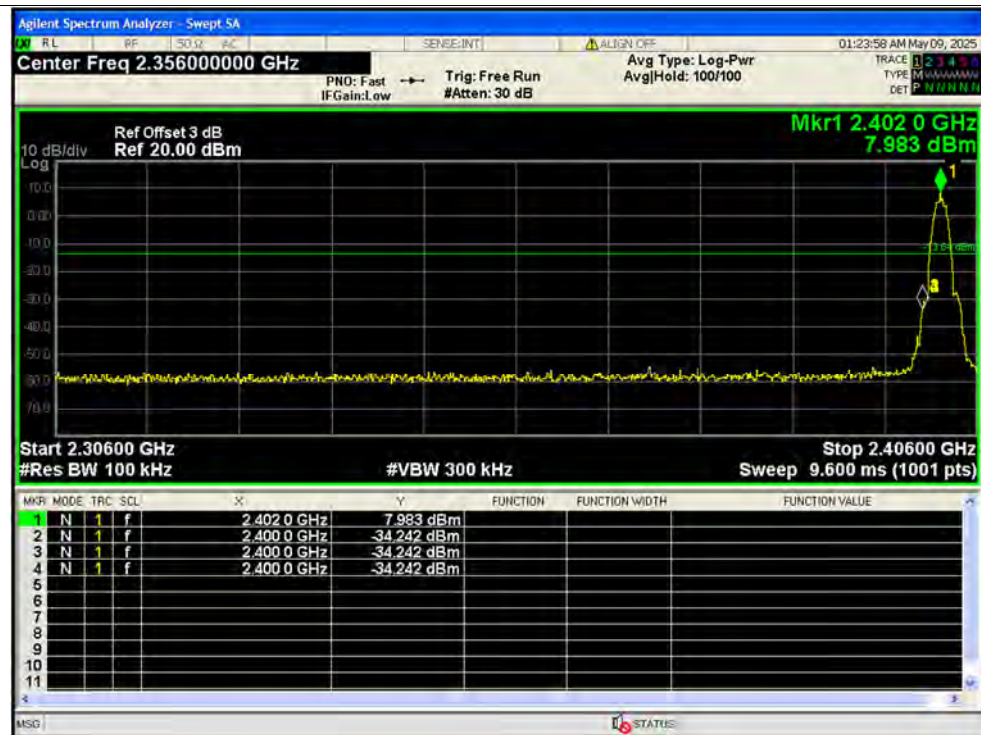




## Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



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

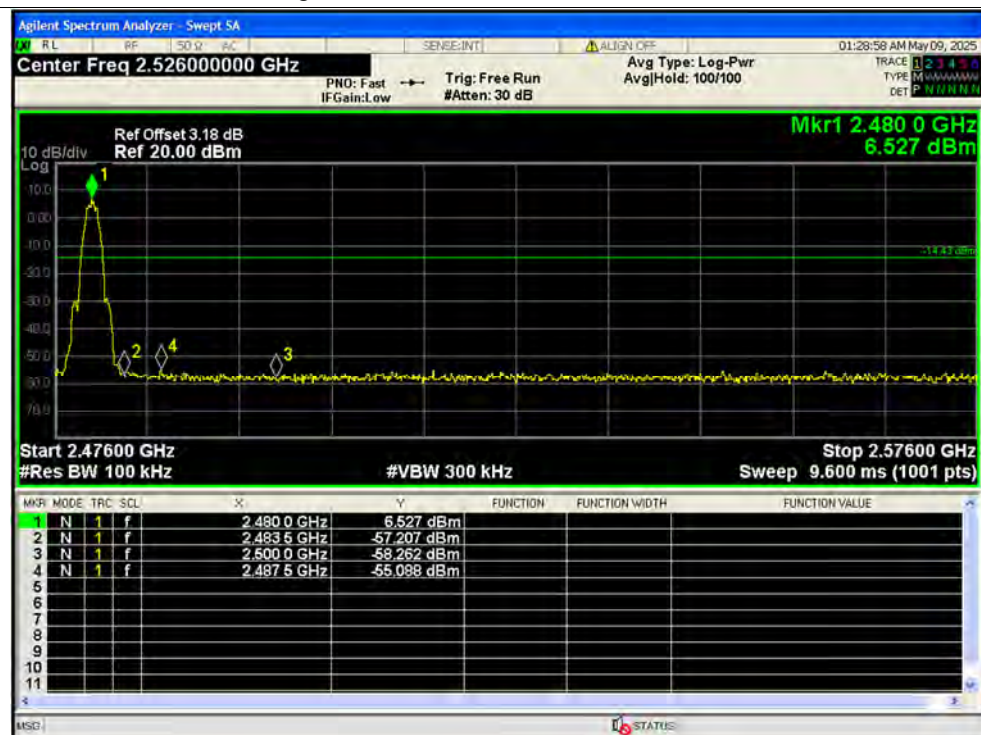




### Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



### 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	-6.67	0	-6.67	8	Pass
NVNT	BLE 1M	2440	Ant1	-6.79	0	-6.79	8	Pass
NVNT	BLE 1M	2480	Ant1	-7.44	0	-7.44	8	Pass
NVNT	BLE 2M	2402	Ant1	-9.34	0	-9.34	8	Pass
NVNT	BLE 2M	2440	Ant1	-9.61	0	-9.61	8	Pass
NVNT	BLE 2M	2480	Ant1	-10.27	0	-10.27	8	Pass



## Test Graphs

## PSD NVNT BLE 1M 2402MHz Ant1



## PSD NVNT BLE 1M 2440MHz Ant1

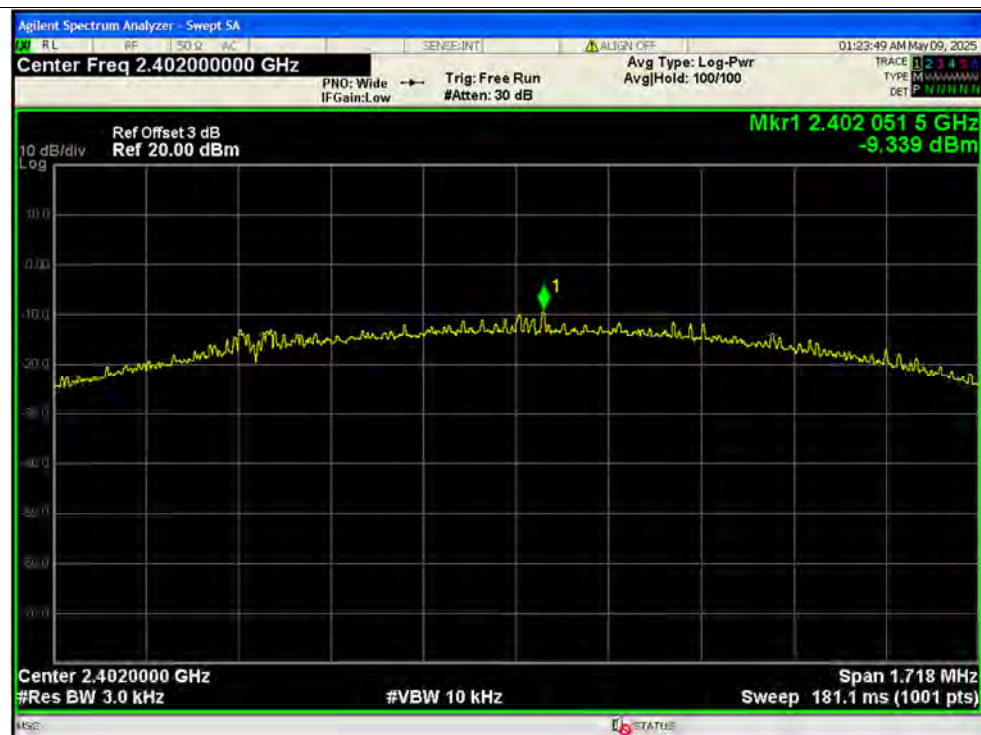




## PSD NVNT BLE 1M 2480MHz Ant1



## 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+Adapter+Data cable+Mobile phone+BLE TX

Test voltage: AC 120V/60Hz

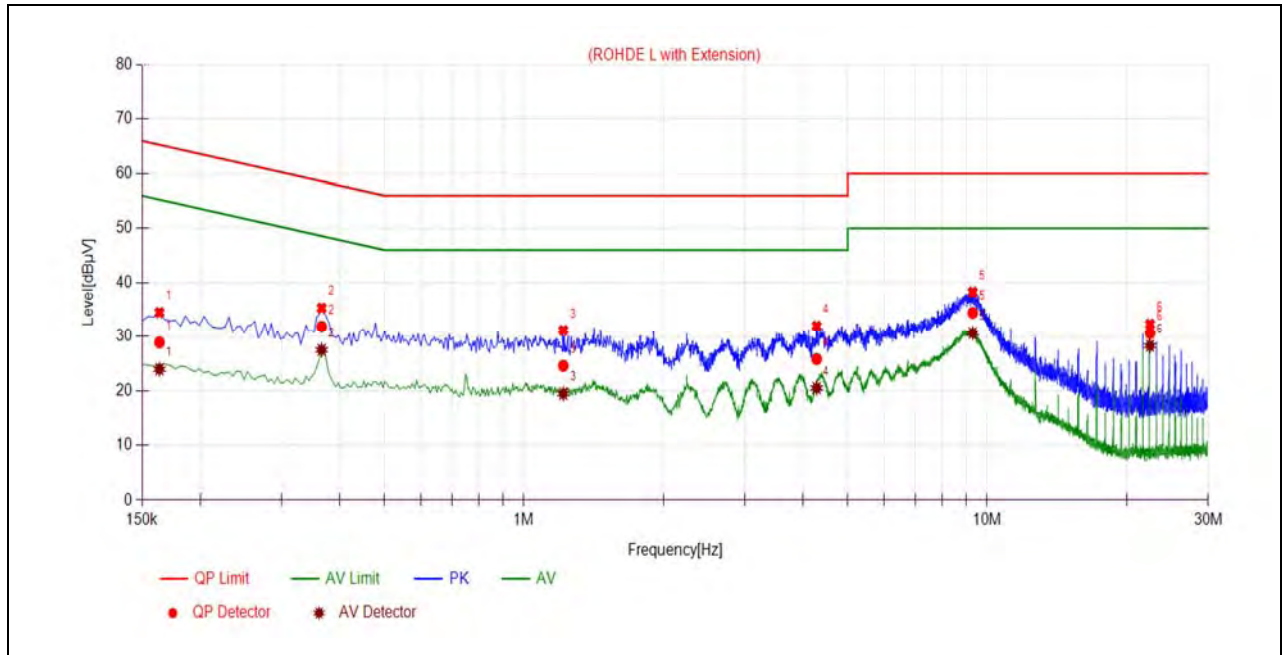
The measurement results are obtained as below:

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

$U_R$ : Receiver Reading

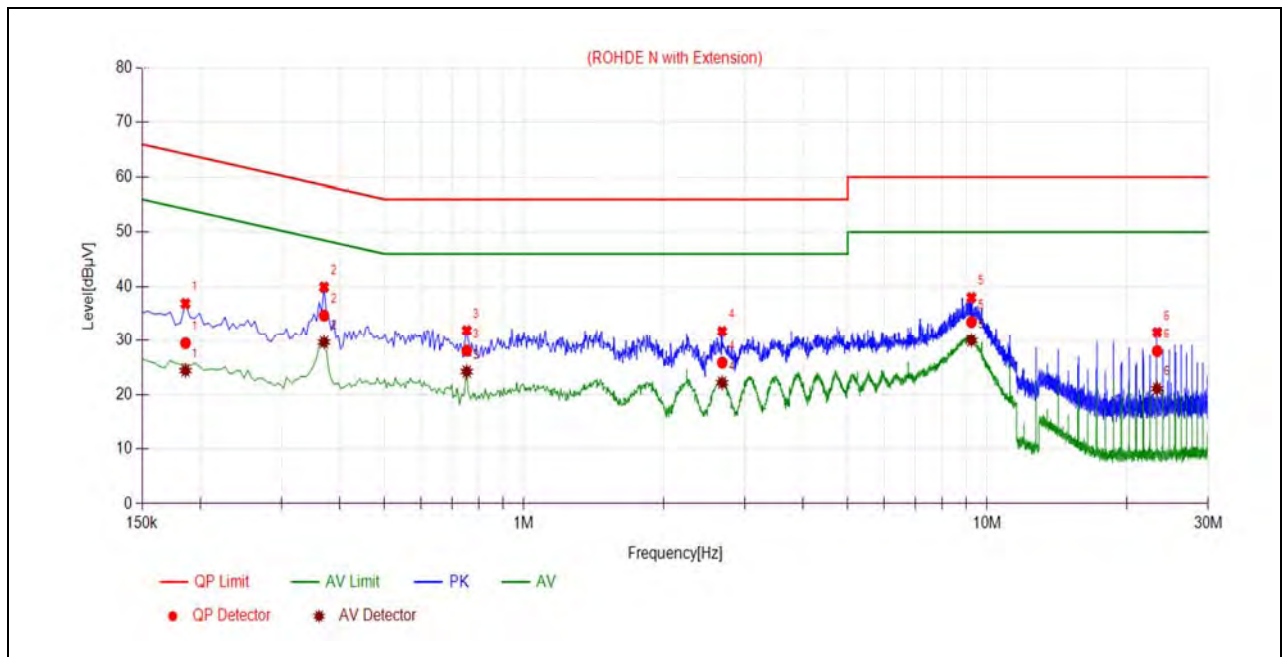
$A_{\text{Factor}}$ : Voltage division factor of LISN

## B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1635	28.89	23.93	65.28	23.93	Line	PASS
2	0.3660	31.85	27.49	58.59	27.49		PASS
3	1.2165	24.57	19.44	56.00	19.44		PASS
4	4.2854	25.80	20.48	56.00	20.48		PASS
5	9.3072	34.42	30.65	60.00	30.65		PASS
6	22.4672	30.60	28.27	60.00	28.27		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1860	29.47	24.40	64.21	54.21	Neutral	PASS
2	0.3705	34.67	29.66	58.49	48.49		PASS
3	0.7530	28.07	24.22	56.00	46.00		PASS
4	2.6793	25.86	22.15	56.00	46.00		PASS
5	9.2482	33.47	30.00	60.00	50.00		PASS
6	23.2778	27.99	21.06	60.00	50.00		PASS

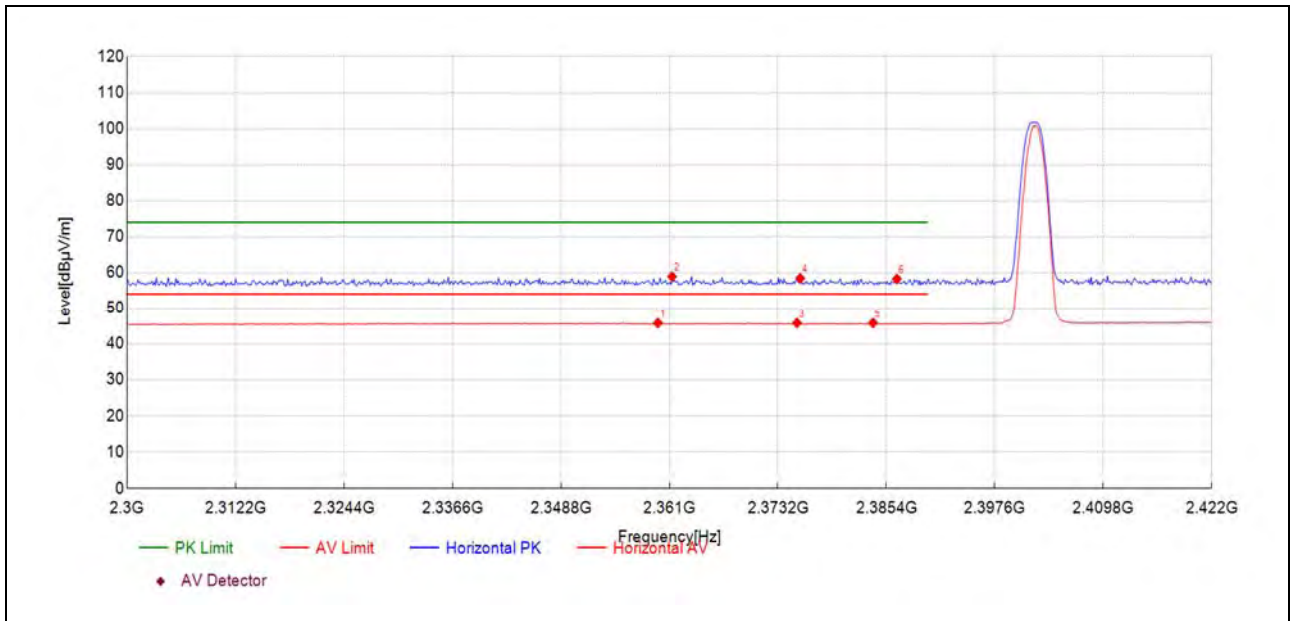


### A.9. Restricted Frequency Bands

**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

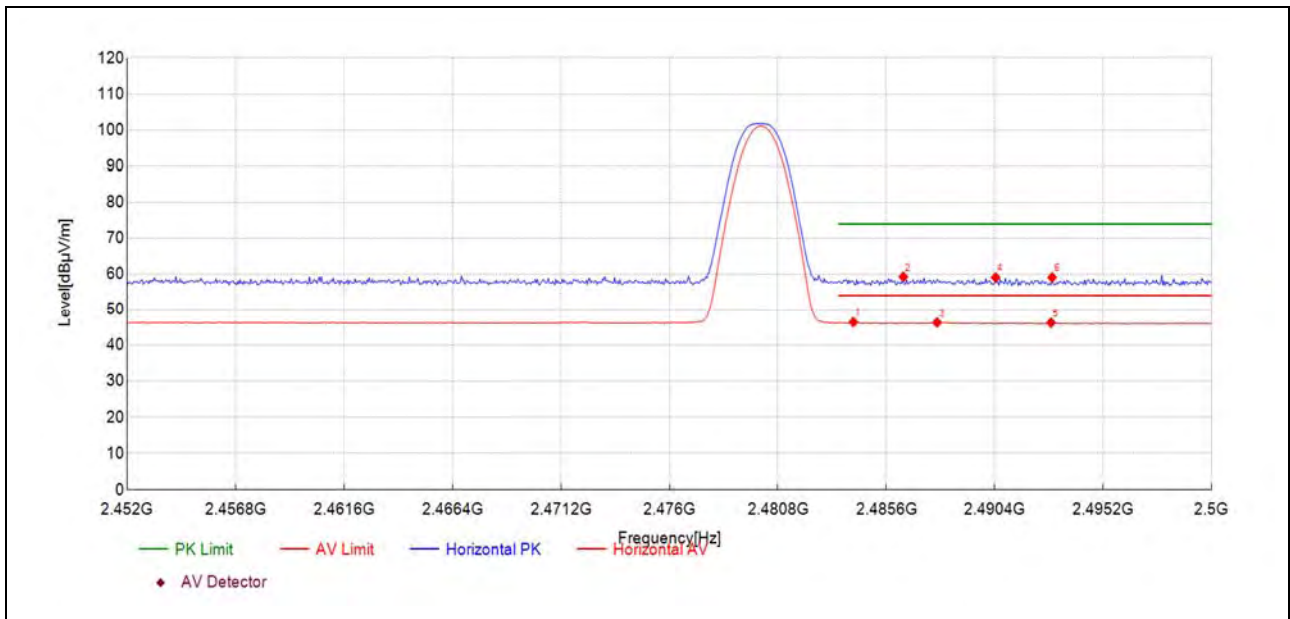
Plot for Channel 0



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2359.72	8.3	45.80	37.460	54.00	8.20	150	107	AV	PASS
2361.31	21.5	58.93	37.470	74.00	15.07	150	228	PK	PASS
2375.35	8.3	45.81	37.480	54.00	8.19	150	156	AV	PASS
2375.72	21.0	58.43	37.480	74.00	15.57	150	62	PK	PASS
2383.90	8.3	45.81	37.490	54.00	8.19	150	174	AV	PASS
2386.58	20.8	58.27	37.490	74.00	15.73	150	246	PK	PASS



Plot for Channel 39



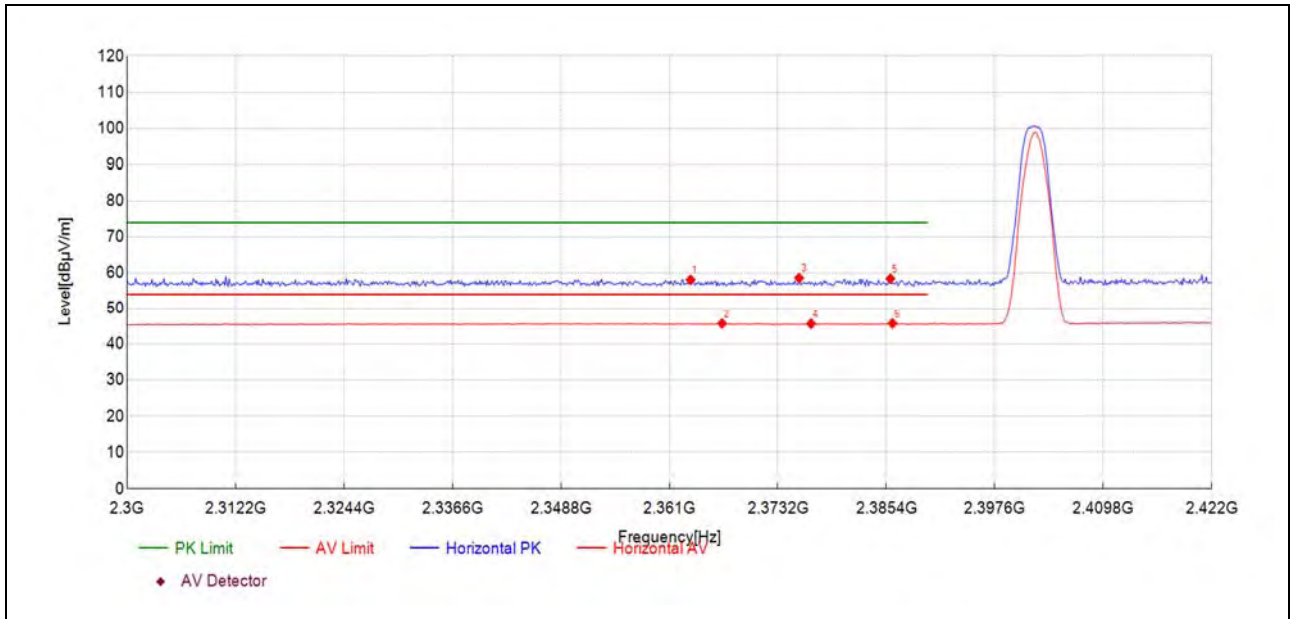
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2484.14	8.2	46.42	38.270	54.00	7.58	150	141	AV	PASS
2486.35	21.0	59.27	38.270	74.00	14.73	150	100	PK	PASS
2487.84	8.0	46.30	38.270	54.00	7.70	150	42	AV	PASS
2490.44	20.8	59.08	38.270	74.00	14.92	150	351	PK	PASS
2492.89	8.0	46.24	38.260	54.00	7.76	150	212	AV	PASS
2492.94	20.8	59.10	38.260	74.00	14.90	150	292	PK	PASS





## 2Mbps

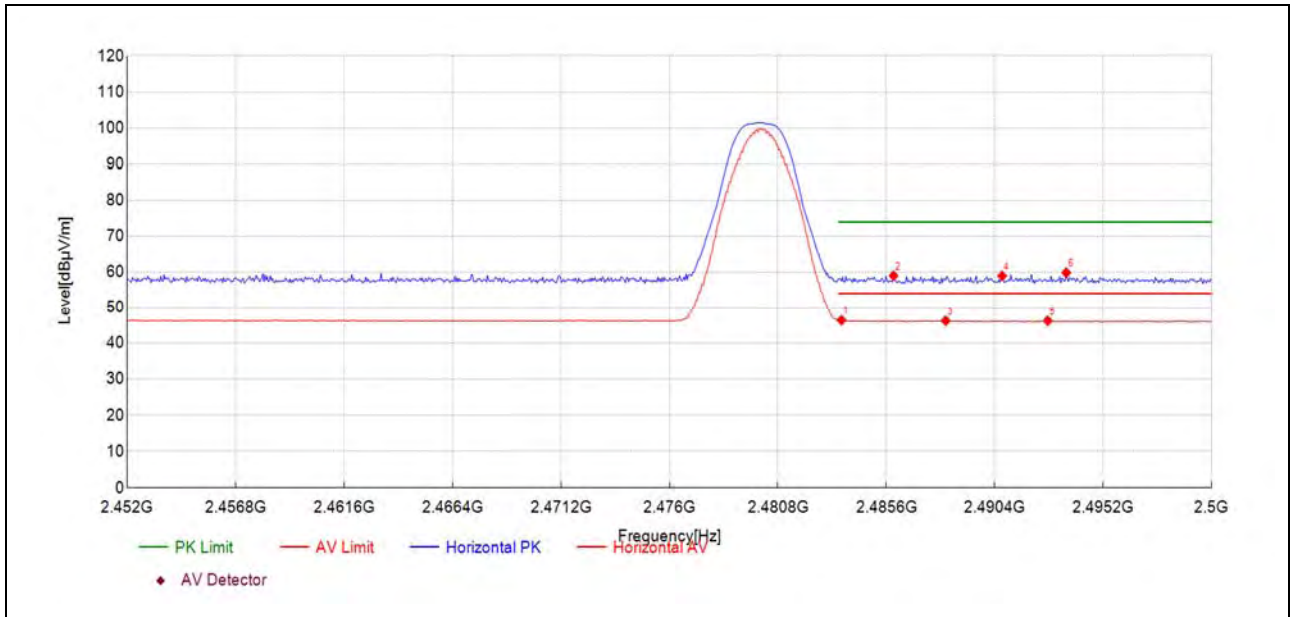
### Plot for Channel 0



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2363.38	20.6	58.10	37.470	74.00	15.90	150	217	PK	PASS
2366.92	8.3	45.75	37.470	54.00	8.25	150	217	AV	PASS
2375.59	21.1	58.59	37.480	74.00	15.41	150	280	PK	PASS
2376.94	8.2	45.68	37.480	54.00	8.32	150	163	AV	PASS
2385.85	20.9	58.43	37.490	74.00	15.57	150	222	PK	PASS
2386.10	8.3	45.75	37.490	54.00	8.25	150	31	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
2483.62	8.1	46.38	38.280	54.00	7.62	150	148	AV	PASS
2485.92	20.8	59.02	38.270	74.00	14.98	150	174	PK	PASS
2488.23	8.0	46.24	38.270	54.00	7.76	150	138	AV	PASS
2490.73	20.7	58.98	38.270	74.00	15.02	150	130	PK	PASS
2492.74	8.0	46.22	38.260	54.00	7.78	150	223	AV	PASS
2493.56	21.6	59.86	38.260	74.00	14.14	150	258	PK	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.

Field strength of fundamental:

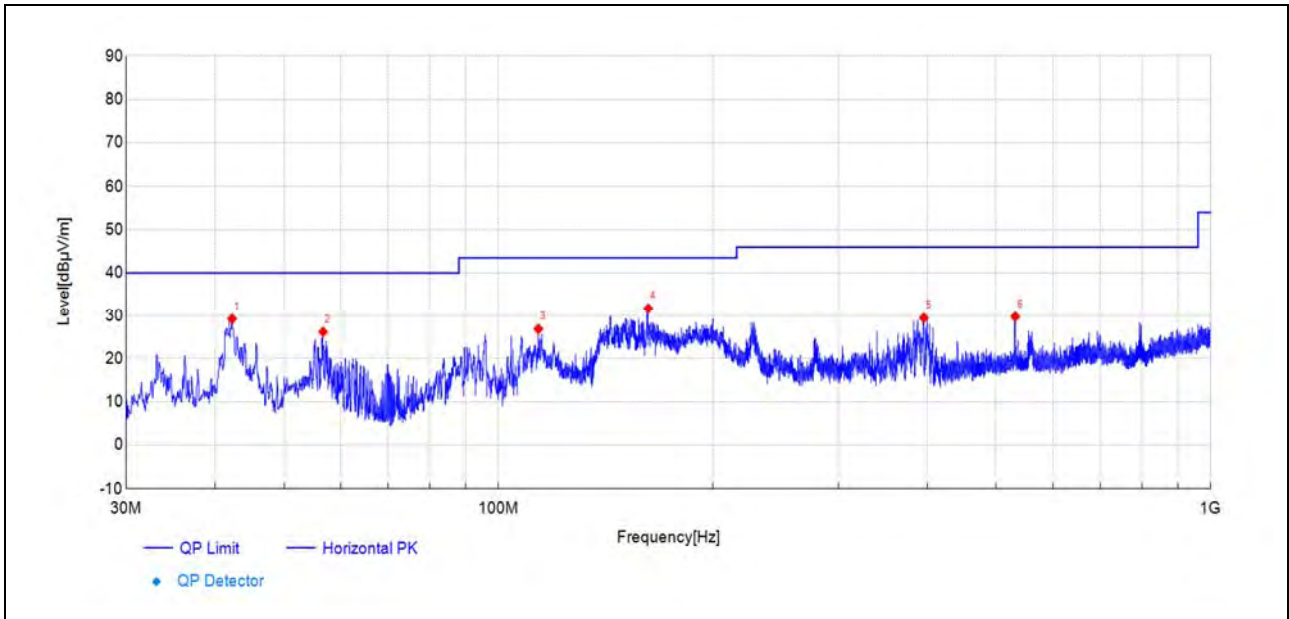
Frequency [MHz]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Factor [dB/m]	Limit [dB $\mu$ V/m]	Detector	Polarity
2479.88	47.0	85.27	38.280	74.00	PK	Vertical

The field strength (the lowest) of fundamenta is more than 20dB higher than the unwanted emissions, in accordance with FCC part 15.215(b).



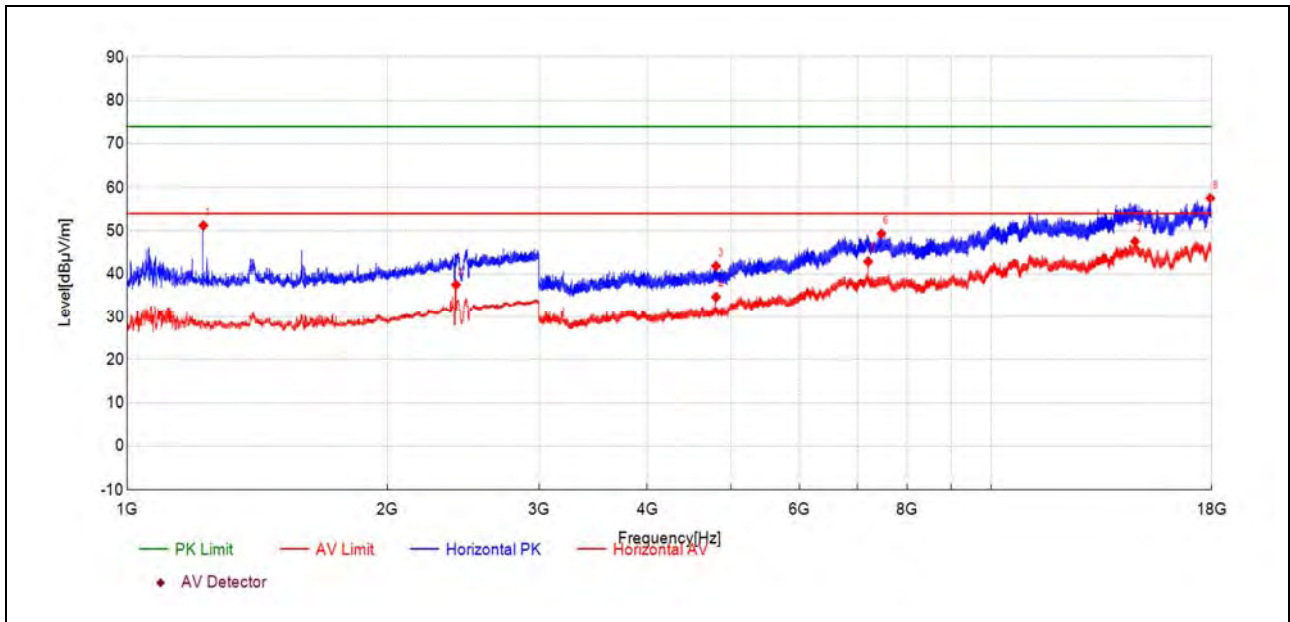
# 1Mbps

## Plot for Channel 0



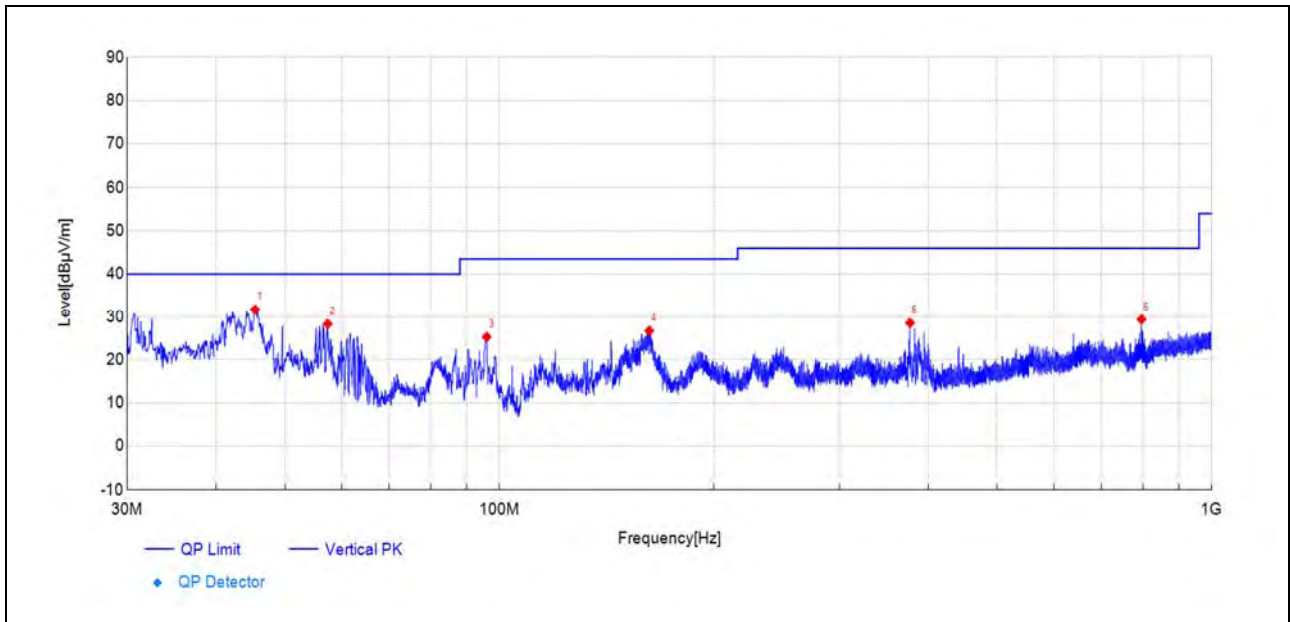
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
42.27	57.7	29.21	-28.490	40.00	10.79	150	8	PK	PASS
56.72	54.2	26.17	-27.980	40.00	13.83	150	35	PK	PASS
113.76	56.3	26.85	-29.480	43.50	16.65	150	90	PK	PASS
162.31	62.9	31.68	-31.170	43.50	11.82	150	1	PK	PASS
395.61	52.4	29.47	-22.960	46.00	16.53	150	303	PK	PASS
531.56	48.7	29.72	-18.950	46.00	16.28	150	193	PK	PASS



(Antenna Horizontal, 1GHz to 18GHz)

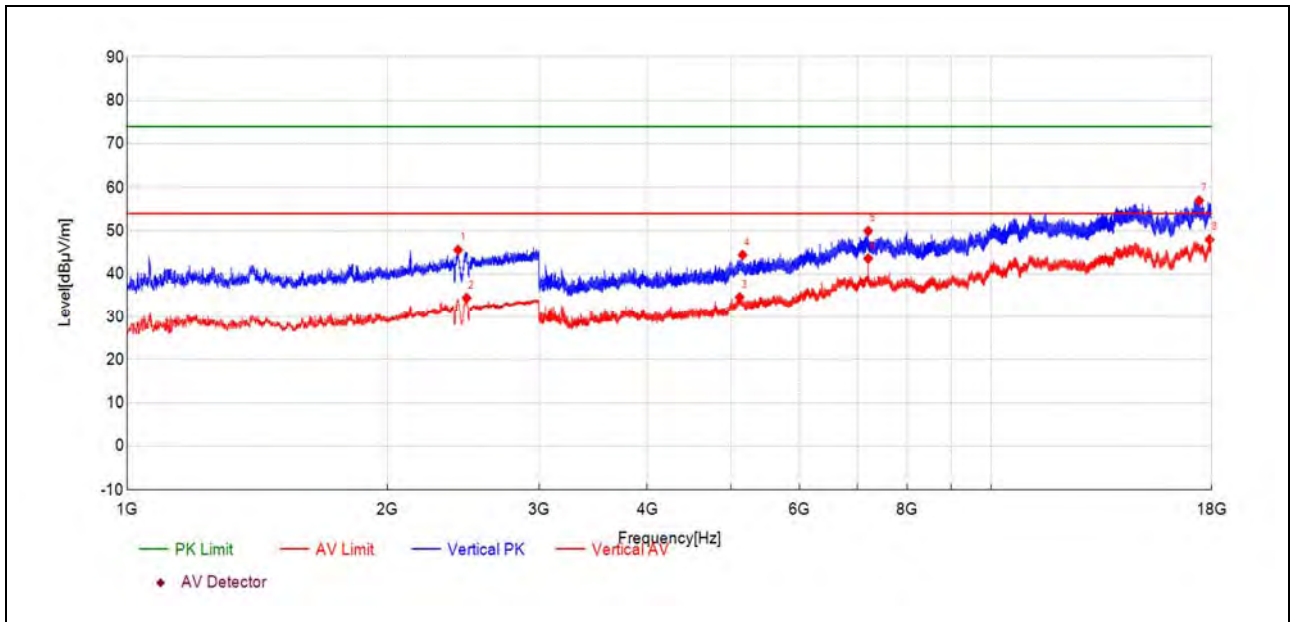
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1225.65	52.5	51.24	-1.270	74.00	22.76	150	334	PK	PASS
2402.68	32.3	37.53	5.260	-	-	150	86	AV	PASS
4803.91	47.0	41.88	-5.150	74.00	32.12	150	198	PK	PASS
4804.34	39.8	34.68	-5.140	54.00	19.32	150	157	AV	PASS
7206.55	37.9	42.90	5.020	54.00	11.10	150	157	AV	PASS
7465.41	44.7	49.33	4.680	74.00	24.67	150	331	PK	PASS
14672.05	27.0	47.56	20.530	54.00	6.44	150	318	AV	PASS
17939.14	38.7	57.56	18.910	74.00	16.44	150	105	PK	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
45.38	59.9	31.69	-28.230	40.00	8.31	150	105	PK	PASS
57.40	56.3	28.29	-27.990	40.00	11.71	150	91	PK	PASS
95.96	55.6	25.27	-30.290	43.50	18.23	150	290	PK	PASS
162.31	57.9	26.70	-31.170	43.50	16.80	150	154	PK	PASS
377.08	51.8	28.52	-23.300	46.00	17.48	150	290	PK	PASS
796.92	43.7	29.36	-14.330	46.00	16.64	150	228	PK	PASS

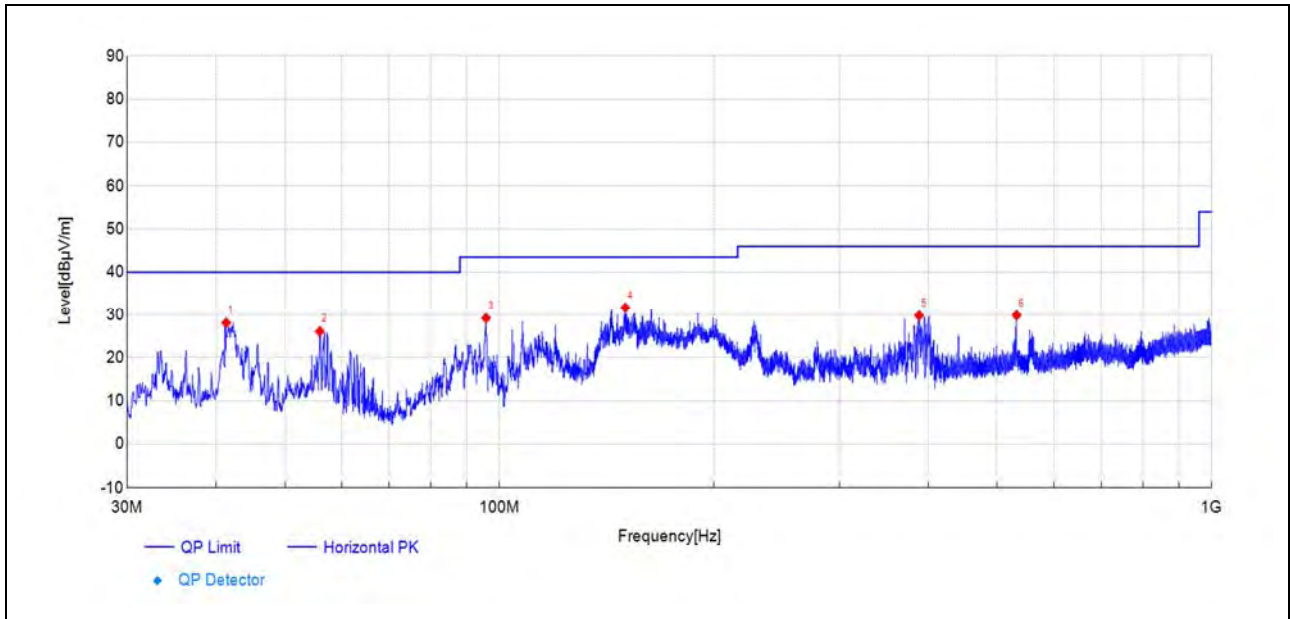




(Antenna Vertical, 1GHz to 18GHz)

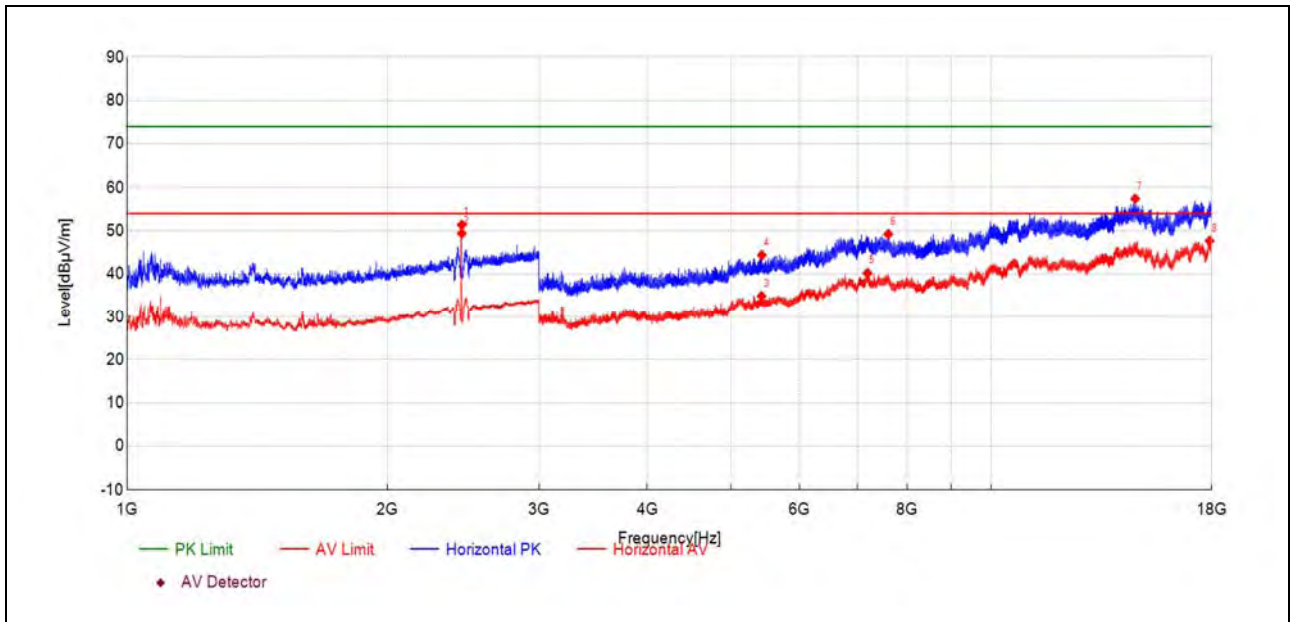
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2416.28	40.1	45.60	5.460	74.00	28.40	150	152	PK	PASS
2471.49	28.6	34.46	5.910	54.00	19.54	150	240	AV	PASS
5116.77	37.7	34.61	-3.080	54.00	19.39	150	159	AV	PASS
5157.06	47.1	44.44	-2.700	74.00	29.56	150	280	PK	PASS
7206.55	45.0	49.97	5.020	74.00	24.03	150	37	PK	PASS
7206.55	38.6	43.61	5.020	54.00	10.39	150	37	AV	PASS
17408.98	36.8	57.00	20.220	74.00	17.00	150	77	PK	PASS
17897.57	28.5	47.98	19.520	54.00	6.02	150	186	AV	PASS

## Plot for Channel 19



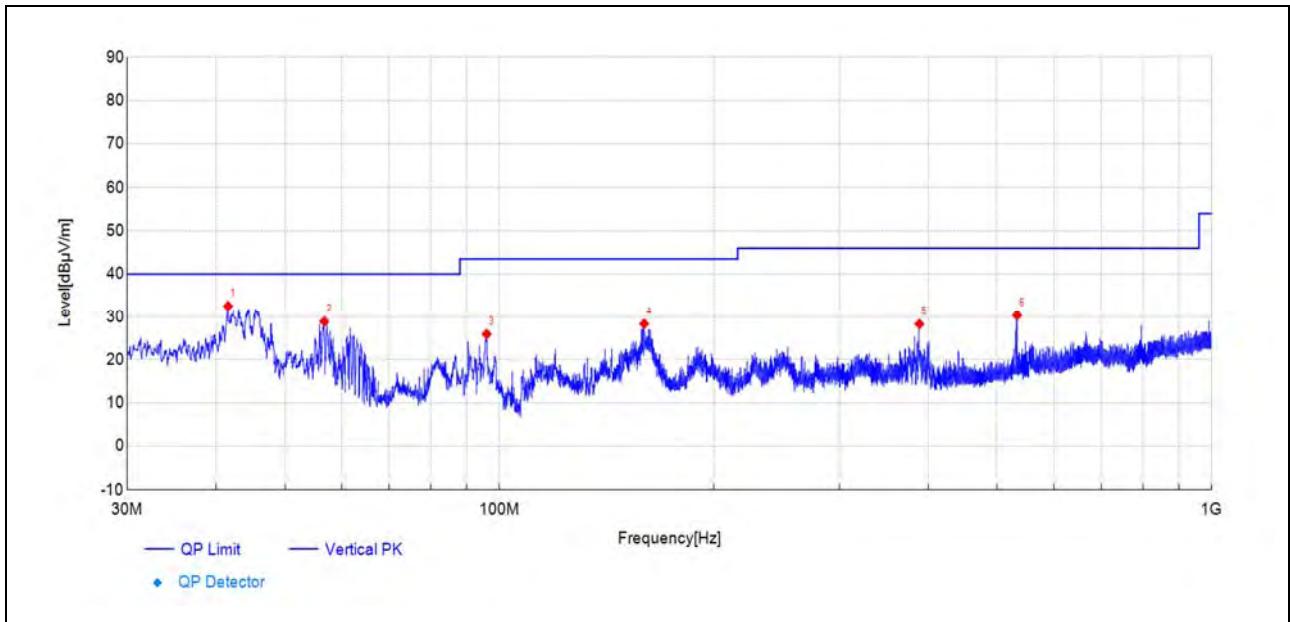
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
41.35	56.9	28.05	-28.870	40.00	11.95	150	22	PK	PASS
55.95	54.1	26.07	-28.030	40.00	13.93	150	57	PK	PASS
95.77	59.5	29.16	-30.380	43.50	14.34	150	14	PK	PASS
150.24	63.2	31.64	-31.600	43.50	11.86	150	85	PK	PASS
388.34	52.4	29.77	-22.650	46.00	16.23	150	303	PK	PASS
532.15	48.8	29.81	-18.980	46.00	16.19	150	138	PK	PASS



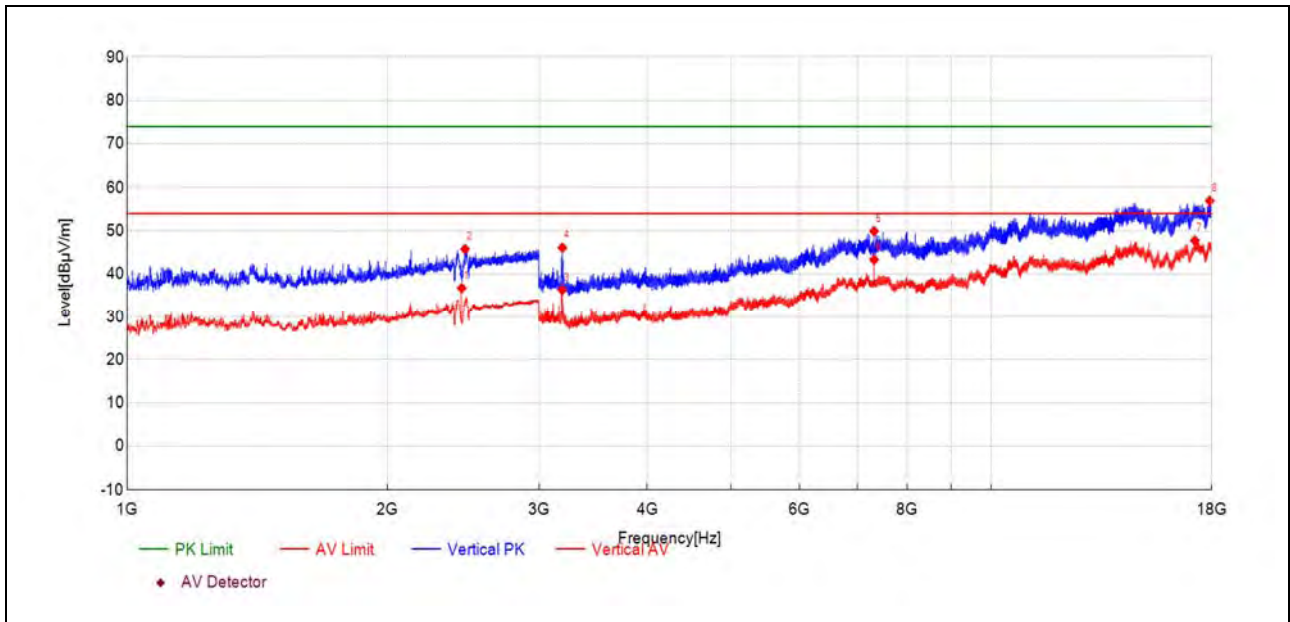
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2440.29	45.6	51.39	5.820	-	-	150	285	PK	NA
2440.29	43.6	49.41	5.820	-	-	150	285	AV	NA
5424.93	36.7	34.87	-1.870	54.00	19.13	150	252	AV	PASS
5428.36	46.3	44.38	-1.900	74.00	29.62	150	50	PK	PASS
7194.98	35.2	40.22	5.070	54.00	13.78	150	198	AV	PASS
7602.99	44.3	49.24	4.940	74.00	24.76	150	118	PK	PASS
14680.62	36.9	57.44	20.550	74.00	16.56	150	9	PK	PASS
17904.00	28.2	47.69	19.470	54.00	6.31	150	105	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
41.59	61.3	32.53	-28.790	40.00	7.47	150	357	PK	PASS
56.77	56.9	28.88	-27.970	40.00	11.12	150	109	PK	PASS
95.96	56.2	25.94	-30.290	43.50	17.56	150	210	PK	PASS
159.65	59.5	28.33	-31.130	43.50	15.17	150	174	PK	PASS
388.68	51.0	28.30	-22.650	46.00	17.70	150	300	PK	PASS
533.07	49.3	30.32	-19.010	46.00	15.68	150	66	PK	PASS



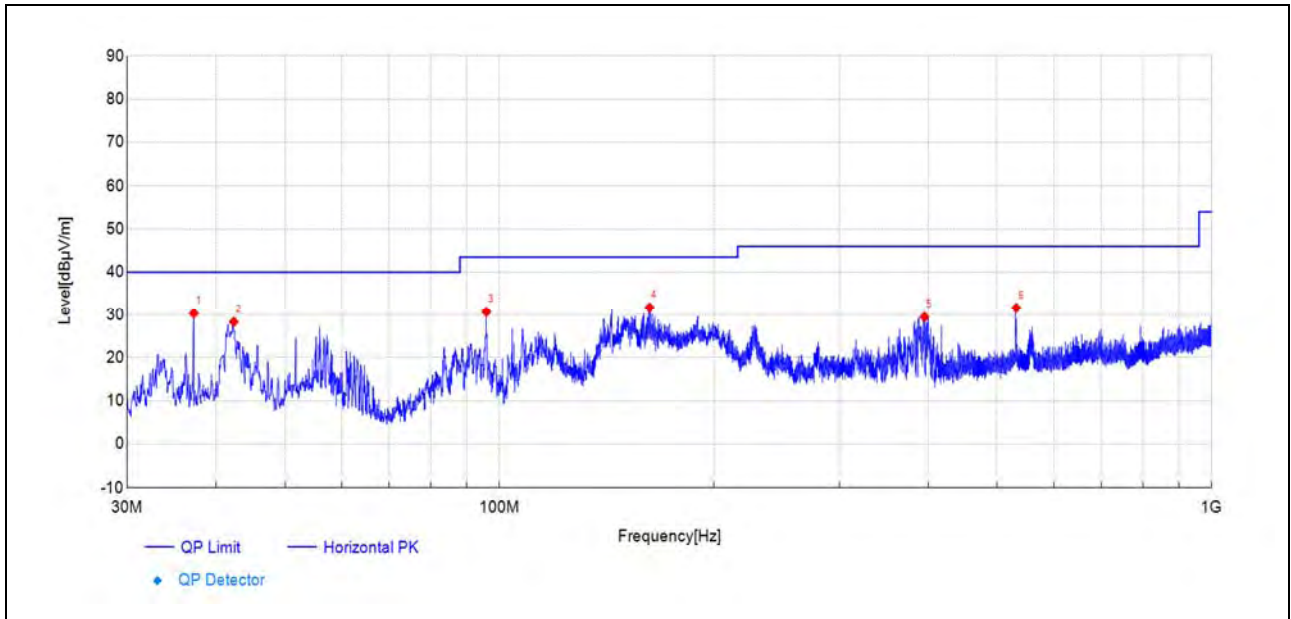
(Antenna Vertical, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2440.29	30.9	36.74	5.820	-	-	150	102	AV	PASS
2461.49	39.8	45.78	5.940	74.00	28.22	150	174	PK	PASS
3189.43	47.1	36.32	-10.750	54.00	17.68	150	130	AV	PASS
3190.29	56.9	46.12	-10.760	74.00	27.88	150	145	PK	PASS
7320.55	45.7	49.92	4.270	74.00	24.08	150	199	PK	PASS
7320.55	39.1	43.37	4.270	54.00	10.63	150	24	AV	PASS
17204.98	27.9	47.77	19.880	54.00	6.23	150	186	AV	PASS
17907.43	37.5	56.95	19.420	74.00	17.05	150	9	PK	PASS



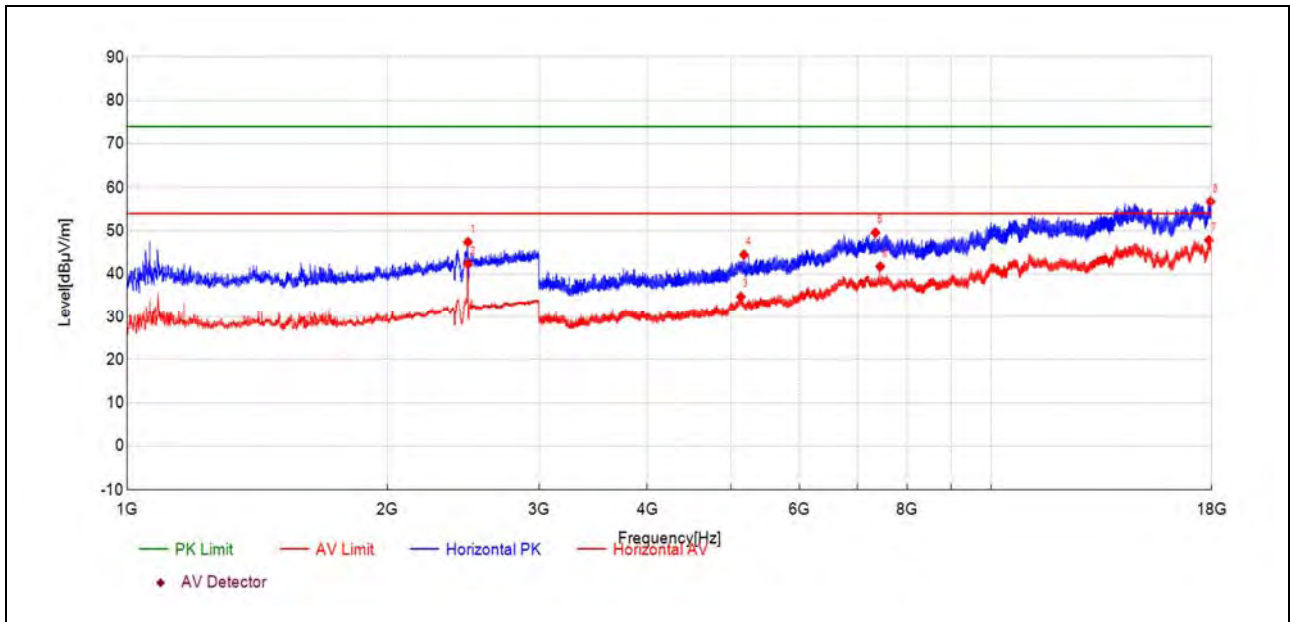


## Plot for Channel 39



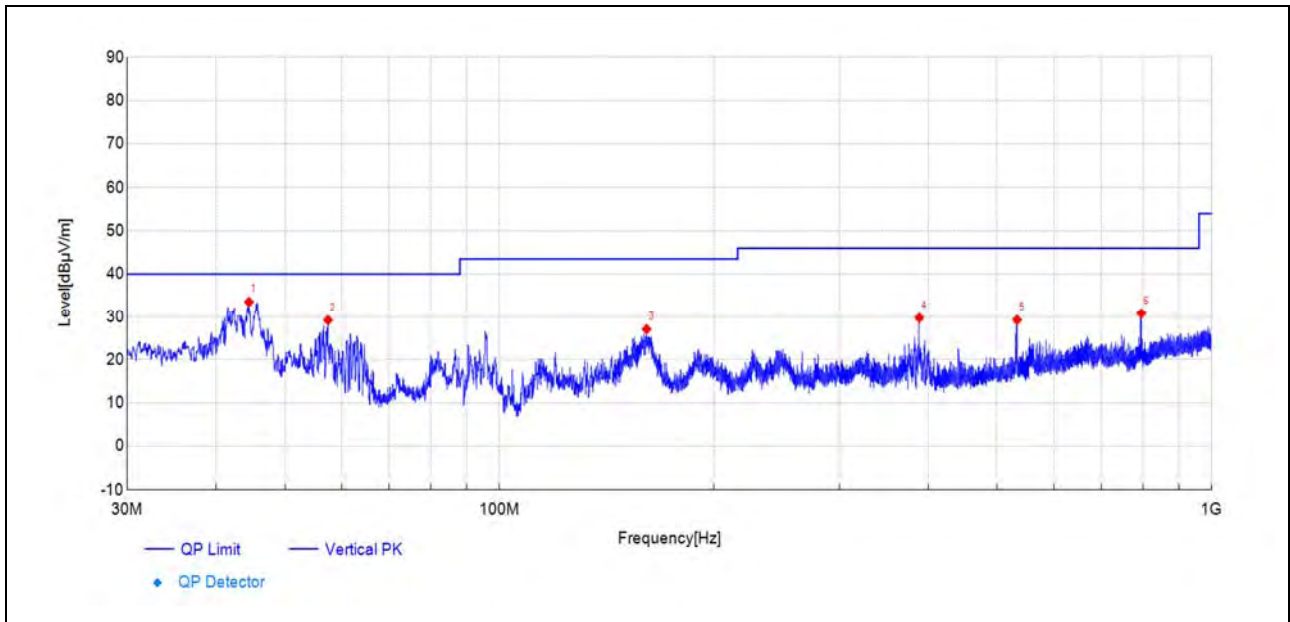
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
37.23	59.6	30.28	-29.340	40.00	9.72	150	338	PK	PASS
42.37	56.7	28.29	-28.430	40.00	11.71	150	36	PK	PASS
95.87	61.0	30.67	-30.340	43.50	12.83	150	261	PK	PASS
162.51	62.9	31.68	-31.190	43.50	11.82	150	2	PK	PASS
395.22	52.5	29.45	-23.020	46.00	16.55	150	310	PK	PASS
531.61	50.6	31.61	-18.960	46.00	14.39	150	180	PK	PASS



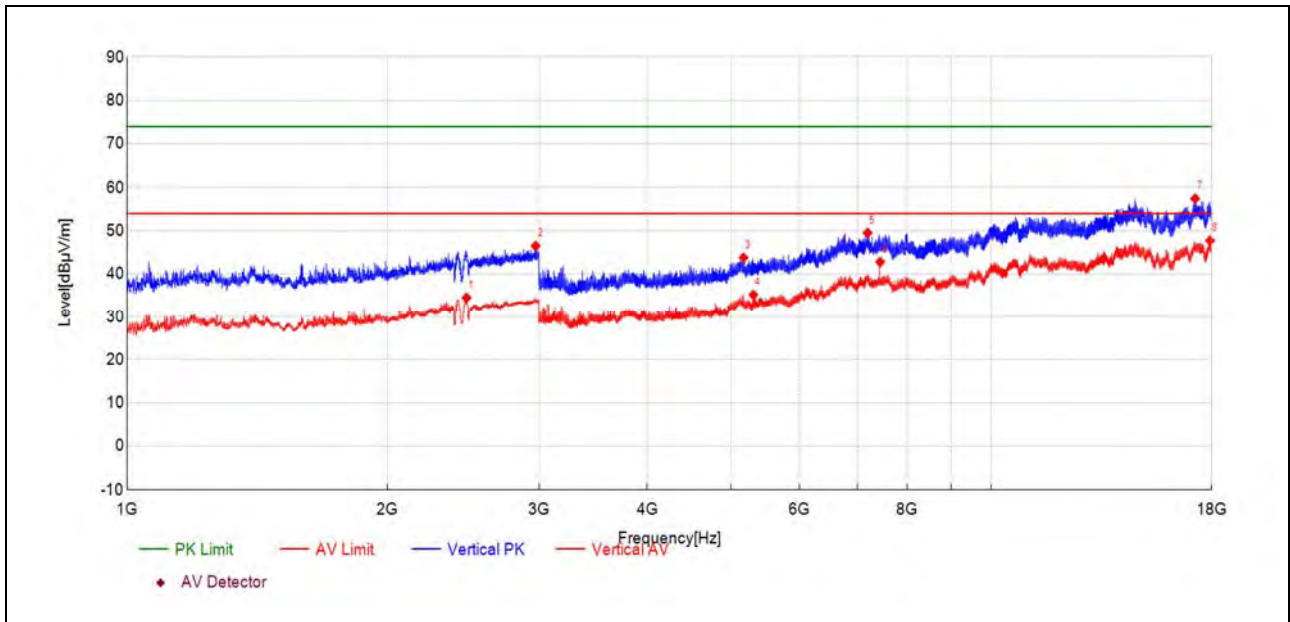
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2480.30	41.5	47.41	5.890	-	-	150	274	PK	NA
2480.30	36.5	42.38	5.890	-	-	150	285	AV	NA
5133.92	37.5	34.73	-2.800	54.00	19.27	150	9	AV	PASS
5175.92	47.6	44.49	-3.120	74.00	29.51	150	226	PK	PASS
7345.84	45.1	49.58	4.490	74.00	24.42	150	118	PK	PASS
7440.56	37.1	41.75	4.630	54.00	12.25	150	131	AV	PASS
17863.28	28.5	47.86	19.320	54.00	6.14	150	37	AV	PASS
17946.86	38.0	56.78	18.780	74.00	17.22	150	266	PK	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
44.50	61.5	33.50	-27.950	40.00	6.50	150	160	PK	PASS
57.45	57.2	29.20	-28.000	40.00	10.80	150	112	PK	PASS
160.91	58.2	27.07	-31.160	43.50	16.43	150	154	PK	PASS
388.58	52.4	29.72	-22.650	46.00	16.28	150	297	PK	PASS
532.92	48.3	29.25	-19.010	46.00	16.75	150	188	PK	PASS
796.44	45.0	30.77	-14.260	46.00	15.23	150	9	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
2471.09	28.6	34.50	5.920	54.00	19.50	150	162	AV	PASS
2970.79	38.8	46.52	7.680	74.00	27.48	150	68	PK	PASS
5170.35	46.8	43.80	-3.000	74.00	30.20	150	171	PK	PASS
5307.07	37.8	35.16	-2.670	54.00	18.84	150	49	AV	PASS
7194.12	44.5	49.53	5.060	74.00	24.47	150	77	PK	PASS
7440.56	38.2	42.80	4.630	54.00	11.20	150	171	AV	PASS
17219.55	37.7	57.46	19.730	74.00	16.54	150	211	PK	PASS
17924.14	28.6	47.74	19.150	54.00	6.26	150	279	AV	PASS

————— END OF REPORT —————