



# TEST REPORT

**APPLICANT** : Sun Cupid Technology (HK) Ltd.

**PRODUCT NAME** : 5G Smartphone

**MODEL NAME** : S6710X

**MARKETING NAME** : NUU B40, B40

**BRAND NAME** : NUU

**FCC ID** : 2ADINS6710X

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

**RECEIPT DATE** : 2025-07-03

**TEST DATE** : 2025-07-07 to 2025-07-23

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Edited by:

Zeng Xiaoying  
Zeng Xiaoying (Rapporteur)

Approved by:

Shen Junsheng  
Shen Junsheng (Supervisor)

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**MORLAB**

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

Tel: 86-755-36698555      Fax: 86-755-36698525  
Http://www.morlab.cn      E-mail: service@morlab.cn





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Version	Date	Reason for change
1.0	2025-08-22	First edition

**MORLAB**

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

Tel: 86-755-36698555      Fax: 86-755-36698525  
[Http://www.morlab.cn](http://www.morlab.cn)      E-mail: [service@morlab.cn](mailto:service@morlab.cn)



# 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. 10, 2025	Li Xinpeng	PASS	/
3	15.247(b)	Maximum Peak Conducted Output Power	Jul. 10, 2025	Li Xinpeng	PASS	/
4	15.247(b)	Maximum Average Conducted Output Power	Jul. 10, 2025	Li Xinpeng	PASS	/
5	15.247(a)	Bandwidth	Jul. 10, 2025	Li Xinpeng	PASS	/
6	15.247(d)	Conducted Spurious Emission and Band Edge	Jul. 10, 2025	Li Xinpeng	PASS	/
7	15.247(e)	Power Spectral Density	Jul. 10, 2025	Li Xinpeng	PASS	/
8	15.207	Conducted Emission	Jul. 07, 2025	Wang Yapeng	PASS	/
9	15.247(d)	Restricted Frequency Bands	Jul. 08, 2025	Zhong Xiangyun	PASS	/
10	15.209, 15.247(d)	Radiated Emission	Jul. 08, 2025	Zhong Xiangyun	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
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	R&S	2025.05.13	2026.05.12
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	9163-519	VULB 9163	Schwarzbeck	2025.06.22	2026.06.21
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2025.05.16	2026.05.15
Test Antenna - Horn	01774	BBHA 9120D	Schwarzbeck	2025.06.20	2026.06.19
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
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	±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>	Sun Cupid Technology (HK) Ltd.
<b>Applicant Address:</b>	16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, HongKong.
<b>Manufacturer:</b>	Sun Cupid Technology (HK) Ltd.
<b>Manufacturer Address:</b>	16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, HongKong.

### 2.2. Information of EUT

<b>Product Name:</b>	5G Smartphone	
<b>Sample No.:</b>	1#, 22#	
<b>Hardware Version:</b>	S6710X-01	
<b>Software Version:</b>	S6710X-AM-V-MV25608-03	
<b>Equipment Type:</b>	Bluetooth LE	
<b>Bluetooth Version:</b>	5.2	
<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>	-1.00dBi	
<b>Accessory Information:</b>	Battery	
	<b>Brand Name:</b>	N/A
	<b>Model No.:</b>	BL-A60CT
	<b>Serial No.:</b>	N/A
	<b>Capacity:</b>	4900mAh
	<b>Rated Voltage:</b>	3.87V
	<b>Charge Limit:</b>	4.45V
	<b>Manufacturer:</b>	Huizhou Highpower Technology Co., Ltd.
	AC Adapter	
	<b>Brand Name:</b>	NUU
	<b>Model No.:</b>	552A-033G-1C
	<b>Serial No.:</b>	N/A



	Rated Output:	5.0V=3.0A; 9.0V=3.0A; 12.0V=2.5A; 15.0V=2.0A; 20.0V=1.5A PPS: 5.0-11.0V=3.0A; 5.0-16.0V=2.0A
	Rated Input:	100-240V~50/60Hz, 1.0A
	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

BW	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1MHz	0	<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>
2MHz	1	<b>2404</b>	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	<b>38</b>	<b>2478</b>
	9	2420	<b>19</b>	<b>2440</b>	29	2460		
	10	2422	20	2442	30	2462		

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

## 2.4. Test Configuration of EUT

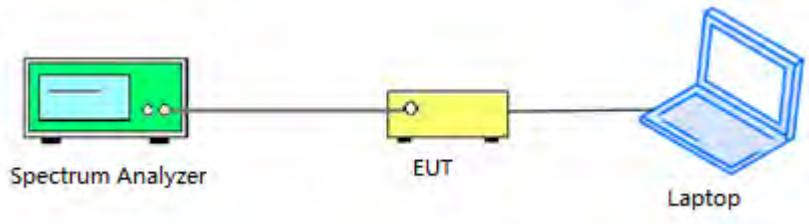
The EUT is controlled by dedicated software to transmit at the default maximum power level.

## 2.5. Test Conditions

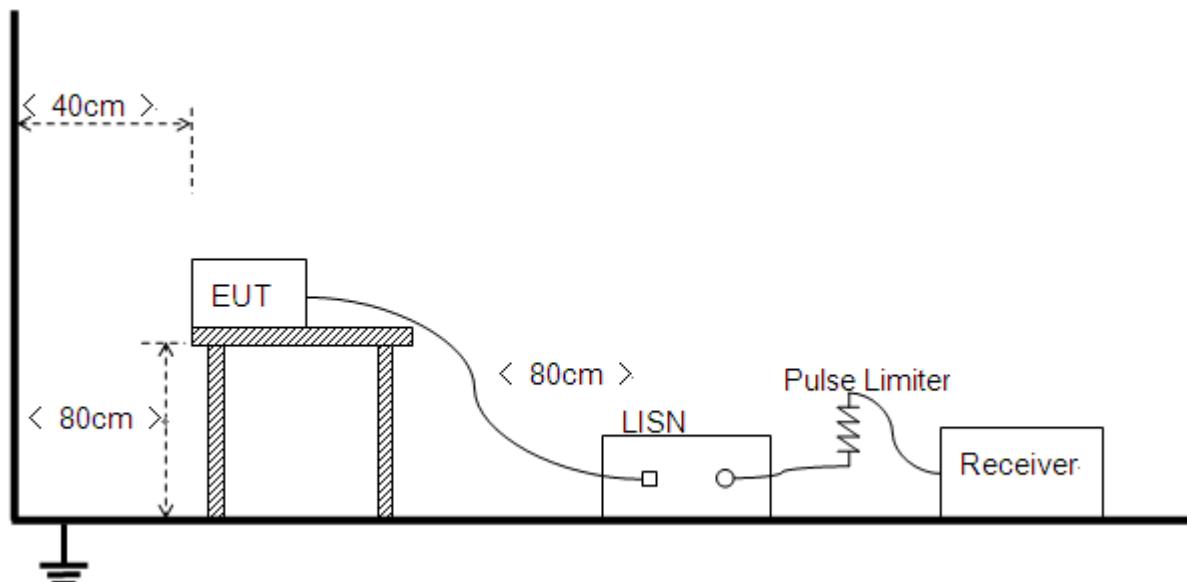
Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

## 2.6. Test Setup Layout Diagram

### 2.6.1. Conducted Measurement

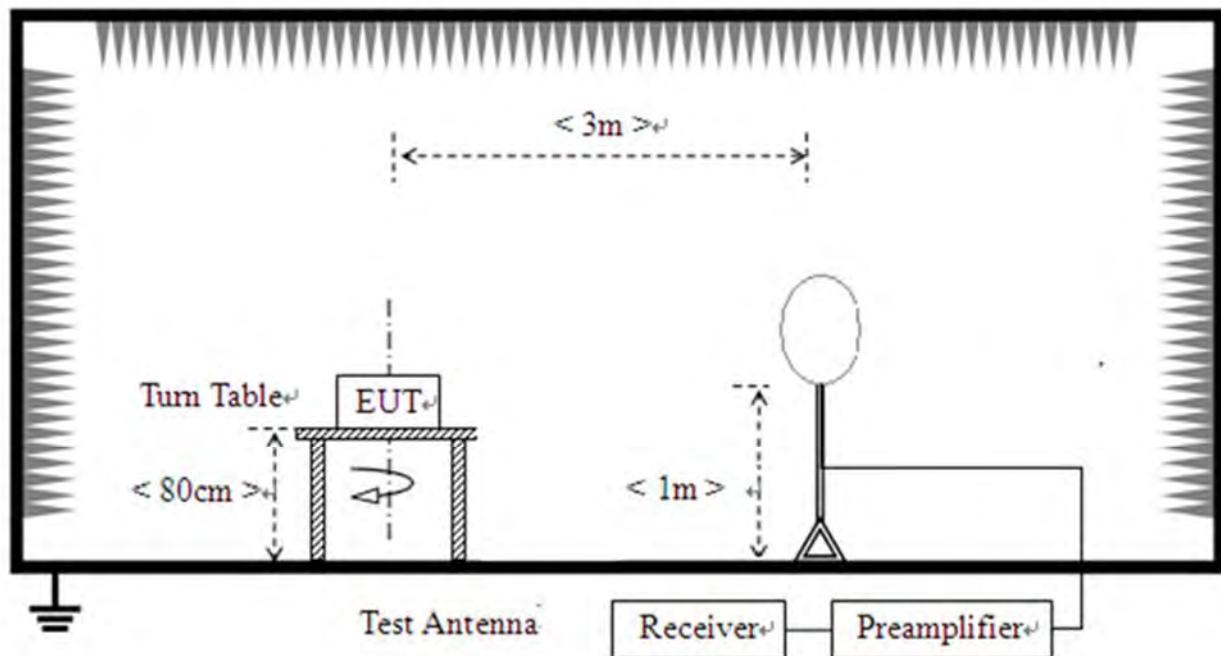


### 2.6.2. Conducted Emission Measurement

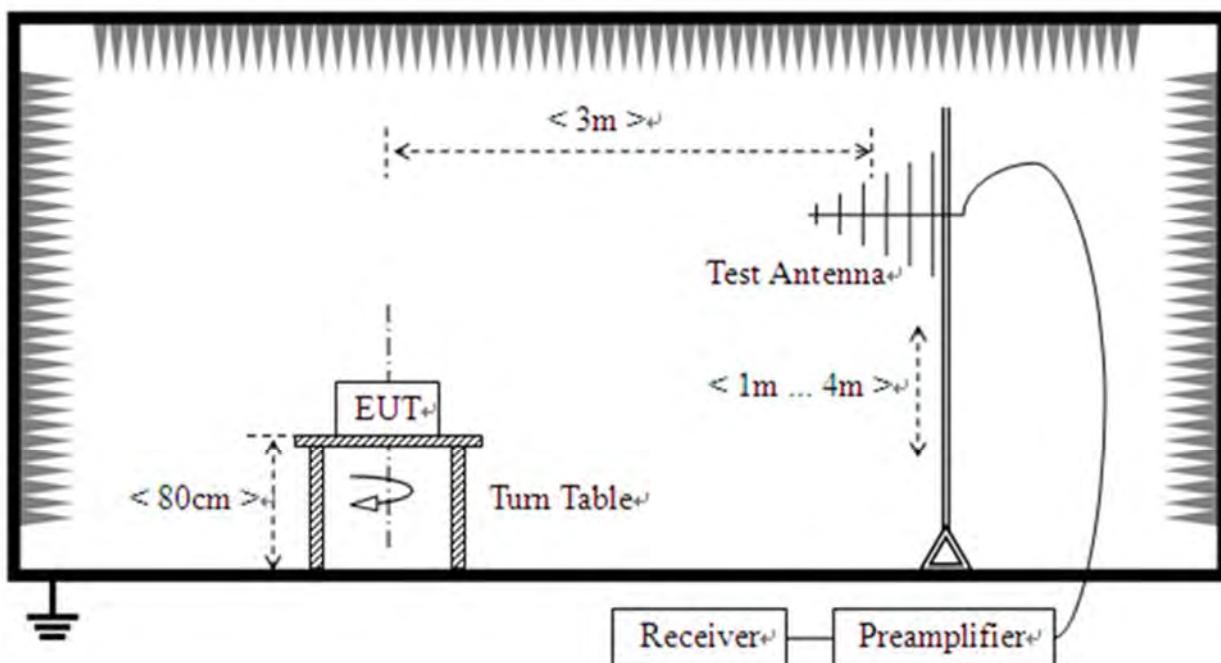


### 2.6.3.Radiation Measurement

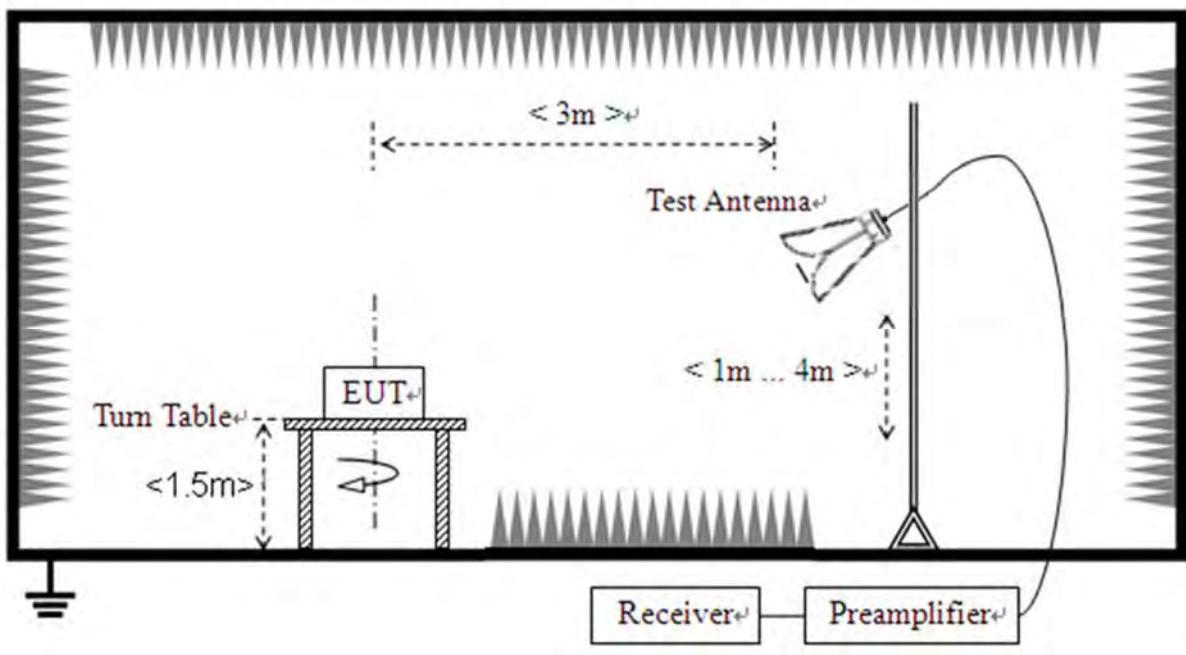
- 1) For radiated emissions from 9kHz to 30MHz



- 2) For radiated emissions from 30MHz to1GHz



## 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"/> FPC Antenna	<input type="checkbox"/> I-PEX Connector
<input type="checkbox"/> External	<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"/> 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 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  $\geq 6$  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 ( $\mu$ V/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

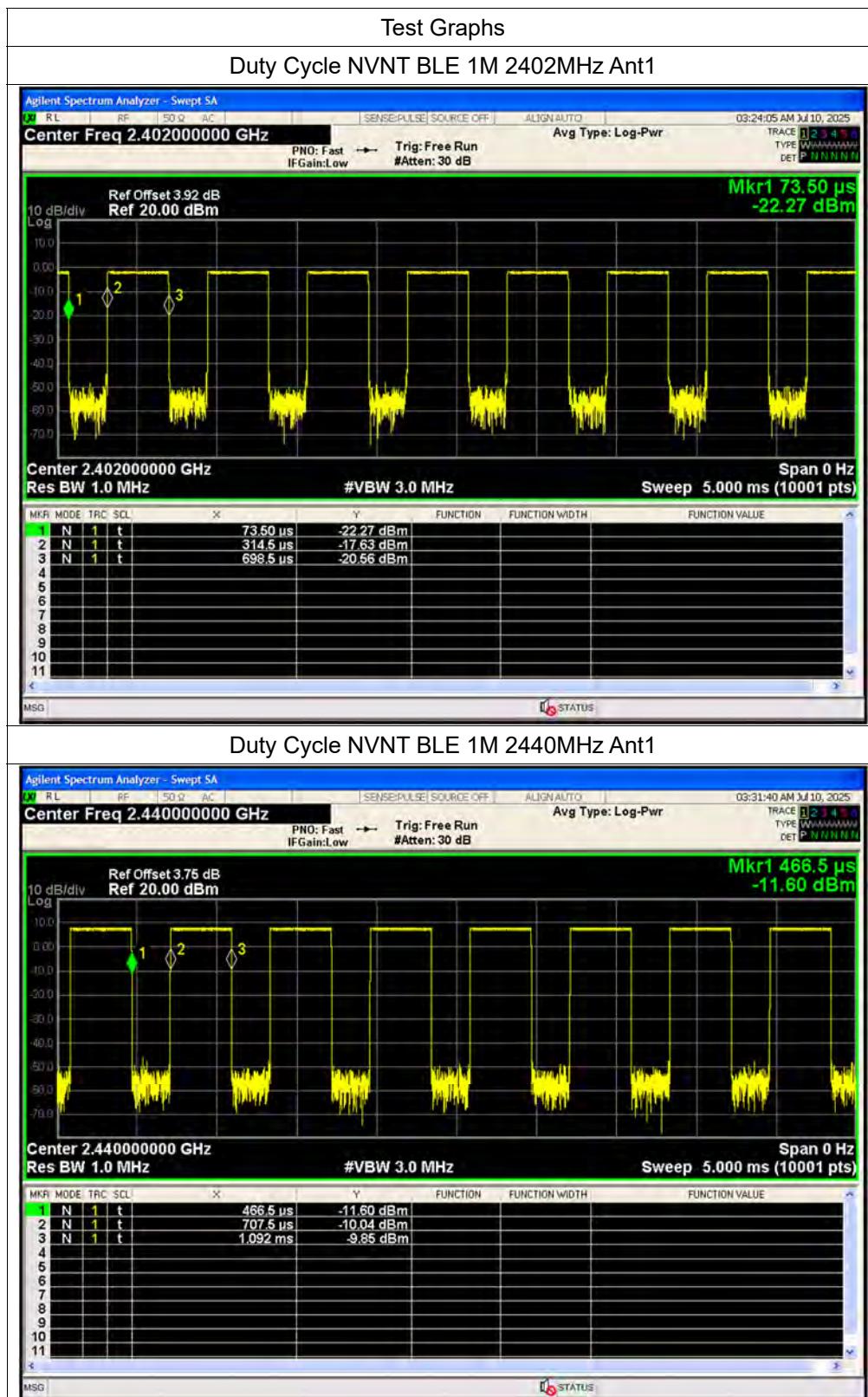
Refer to Annex A.10 in this report.

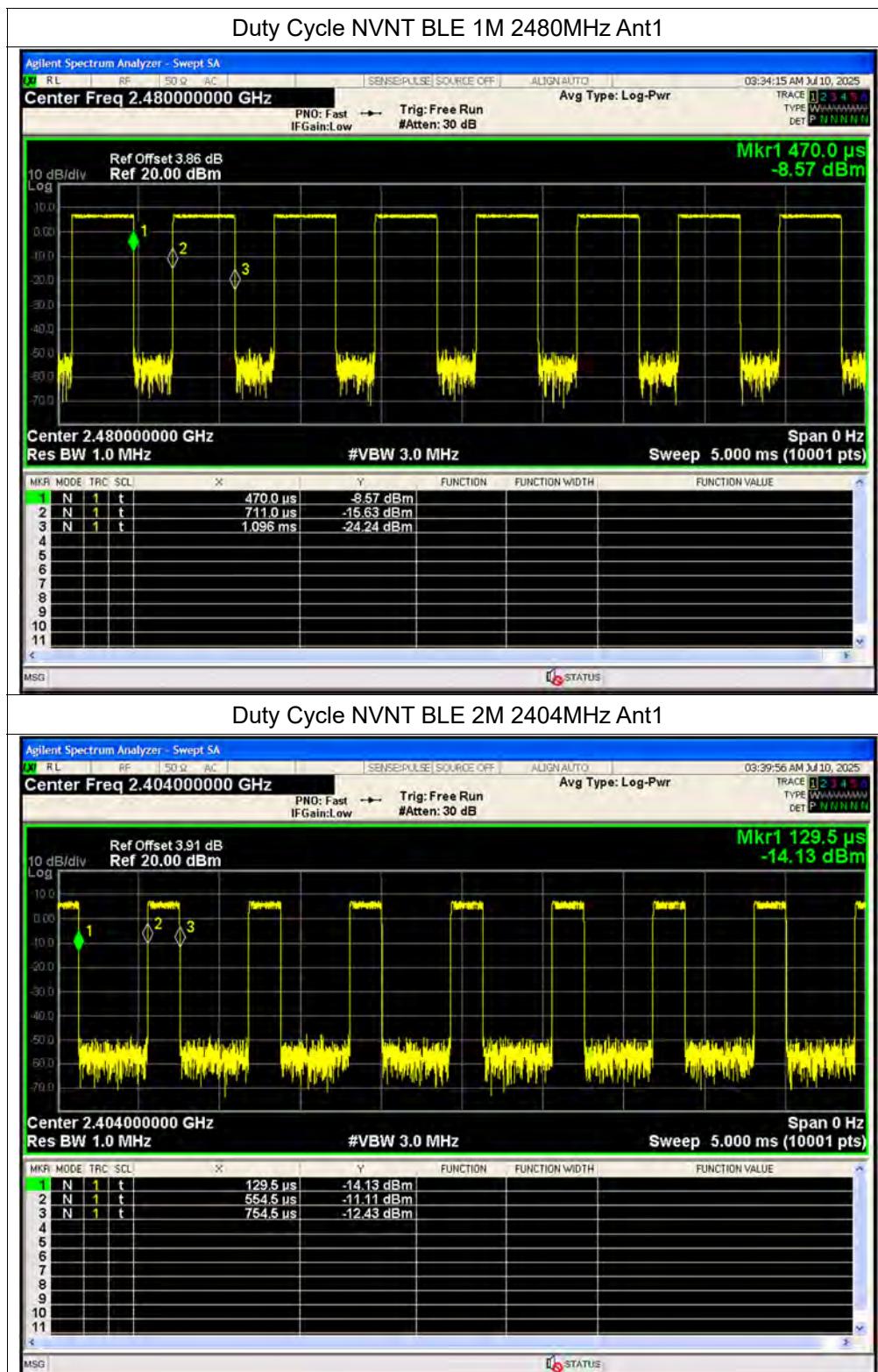


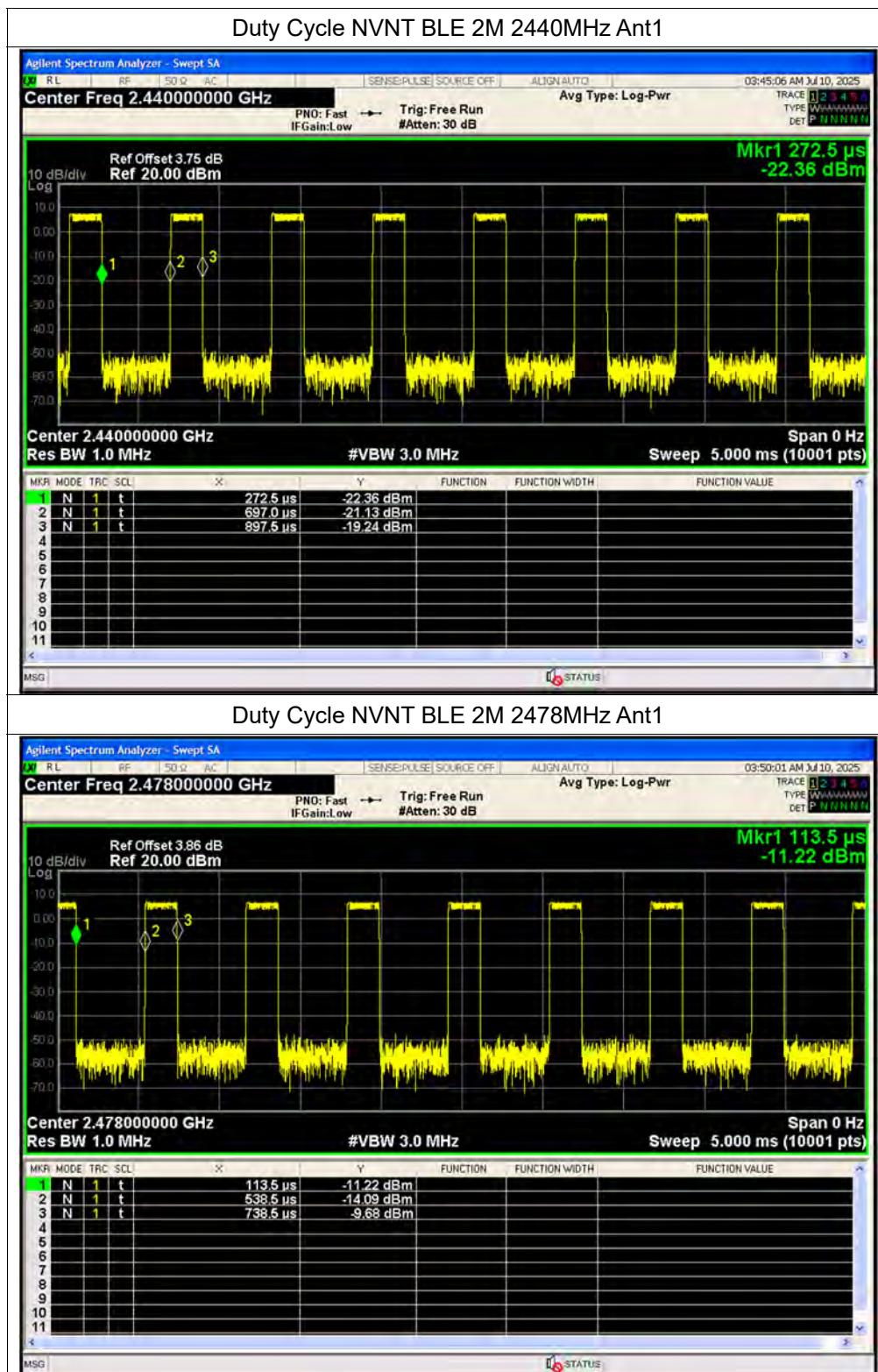
## Annex A Test Data and Result

### 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	61.44	2.12	2.6
NVNT	BLE 1M	2440	Ant1	61.44	2.12	2.6
NVNT	BLE 1M	2480	Ant1	61.47	2.11	2.6
NVNT	BLE 2M	2404	Ant1	32	4.95	5
NVNT	BLE 2M	2440	Ant1	32.08	4.94	4.99
NVNT	BLE 2M	2478	Ant1	32	4.95	5

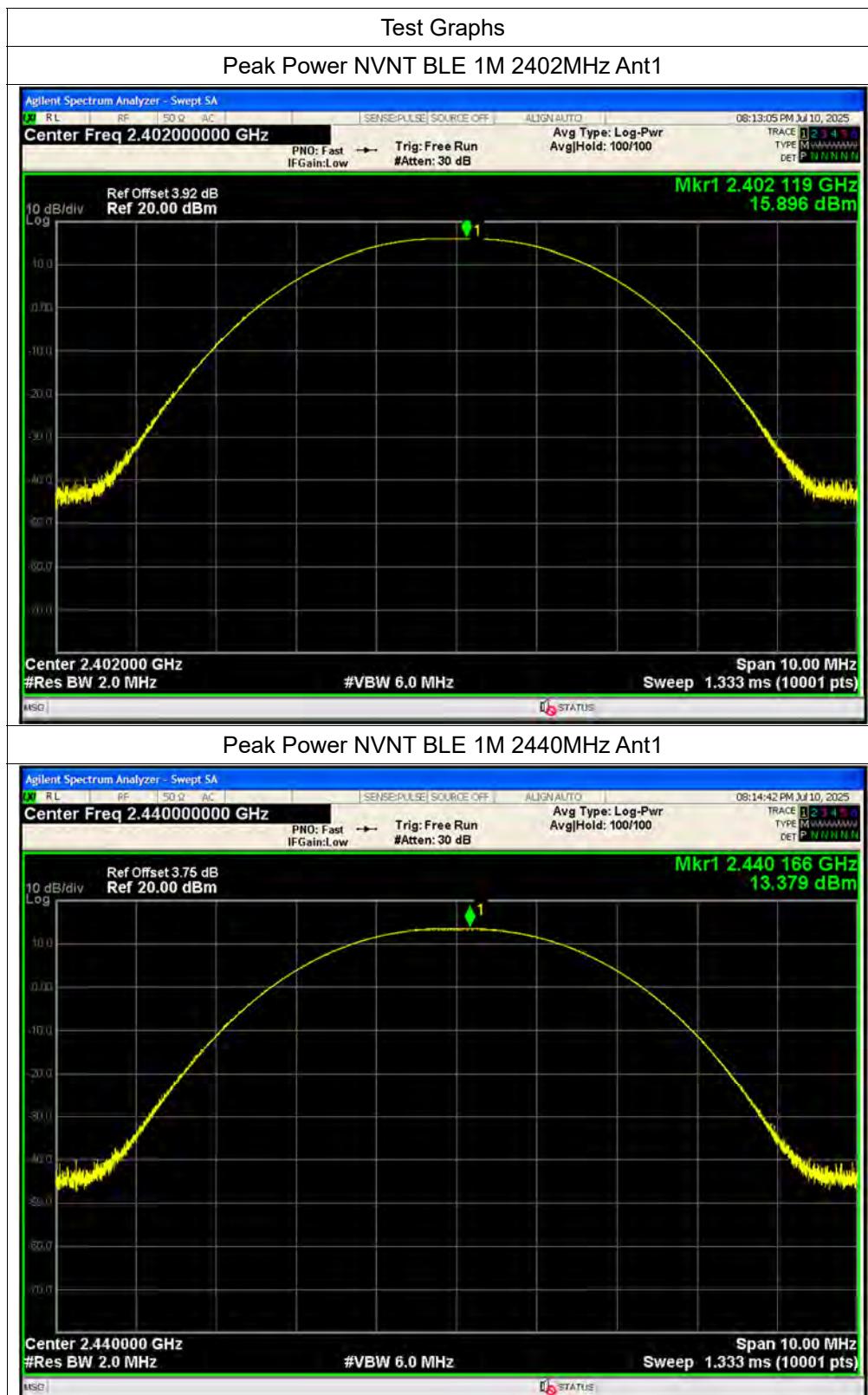






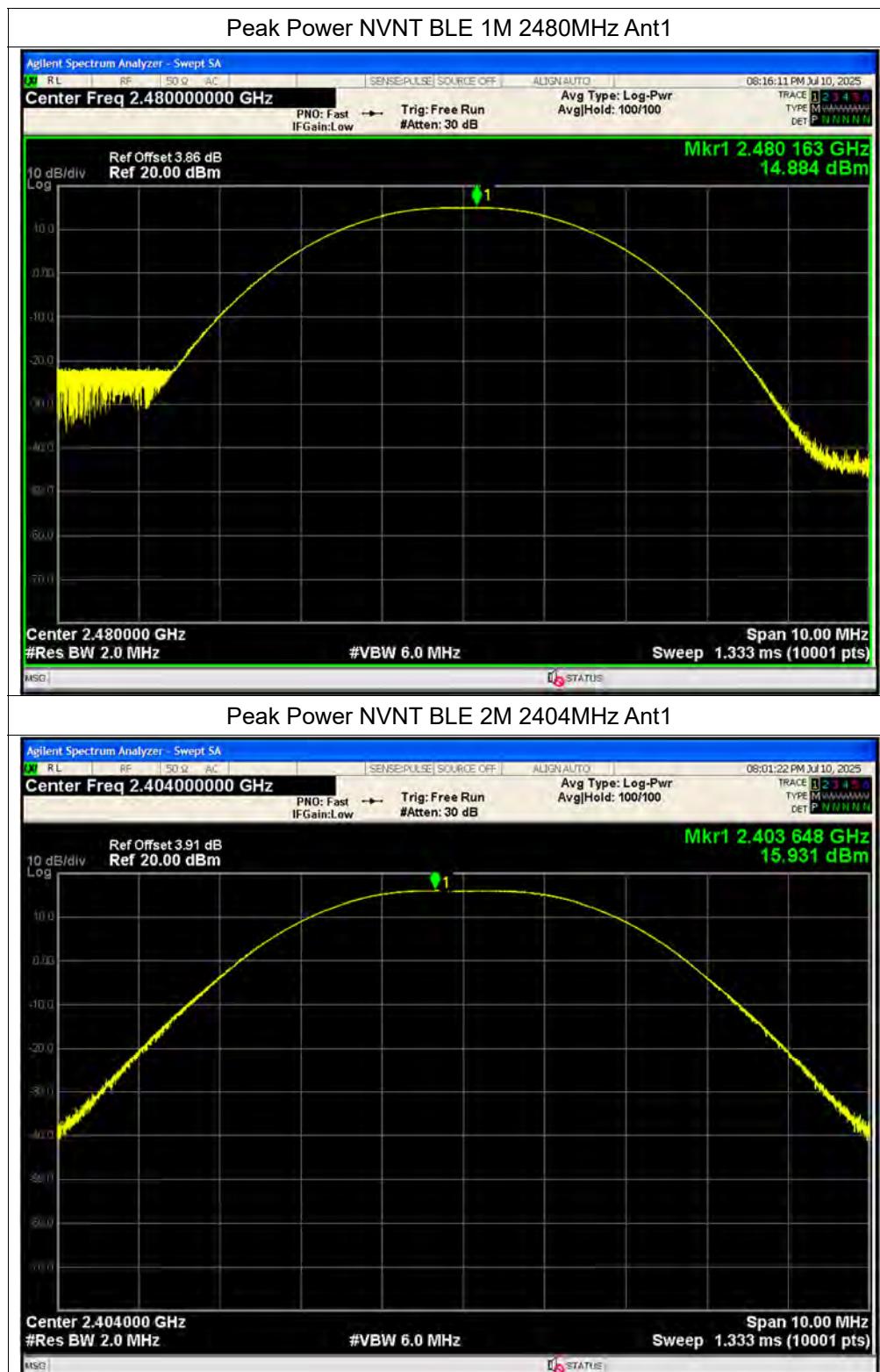
**A.2. Maximum Peak Conducted Output Power**

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	15.9	0	15.9	0.0389	30	Pass
NVNT	BLE 1M	2440	Ant1	13.38	0	13.38	0.02178	30	Pass
NVNT	BLE 1M	2480	Ant1	14.88	0	14.88	0.03076	30	Pass
NVNT	BLE 2M	2404	Ant1	15.93	0	15.93	0.03917	30	Pass
NVNT	BLE 2M	2440	Ant1	13.46	0	13.46	0.02218	30	Pass
NVNT	BLE 2M	2478	Ant1	14.58	0	14.58	0.02871	30	Pass





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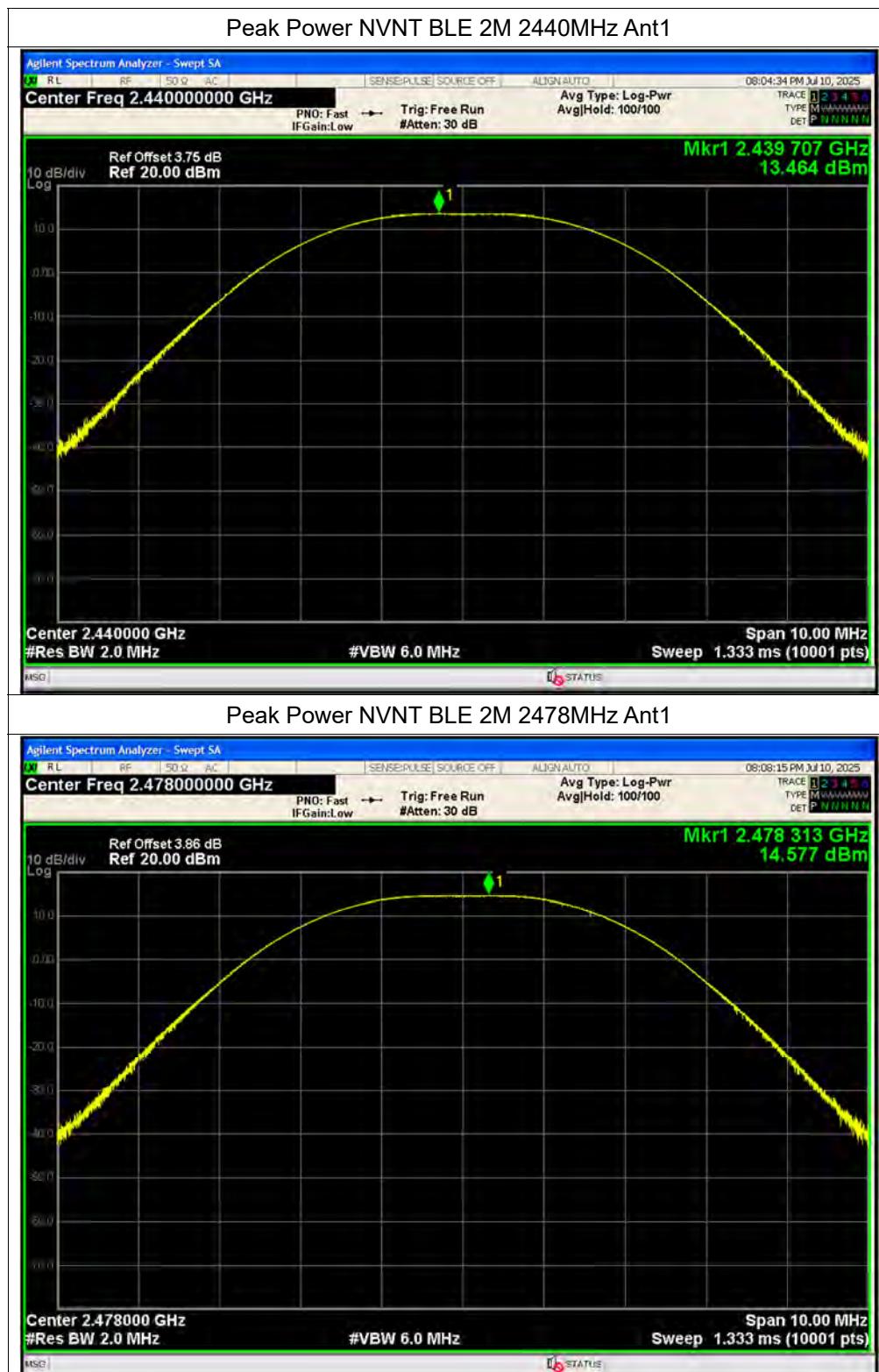
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Shenzhen Morlab Communications Technology Co., Ltd.  
FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road,  
Block67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

Tel: 86-755-36698555  
Fax: 86-755-36698525  
Http://www.morlab.cn  
E-mail: service@morlab.cn



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MORLAB

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

Tel: 86-755-36698555  
Fax: 86-755-36698525  
Http://www.morlab.cn  
E-mail: service@morlab.cn

**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	13.31	2.12	15.43	0.03491	30	Pass
NVNT	BLE 1M	2440	Ant1	10.79	2.12	12.91	0.01954	30	Pass
NVNT	BLE 1M	2480	Ant1	12.28	2.11	14.39	0.02748	30	Pass
NVNT	BLE 2M	2404	Ant1	10.48	4.95	15.43	0.03491	30	Pass
NVNT	BLE 2M	2440	Ant1	8.06	4.94	13	0.01995	30	Pass
NVNT	BLE 2M	2478	Ant1	9.17	4.95	14.12	0.02582	30	Pass





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

Tel: 86-755-36698555 Fax: 86-755-36698525  
Http://www.morlab.cn E-mail: service@morlab.cn



**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	0.672	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.693	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.6882	0.5	Pass
NVNT	BLE 2M	2404	Ant1	1.126	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.145	0.5	Pass
NVNT	BLE 2M	2478	Ant1	1.131	0.5	Pass

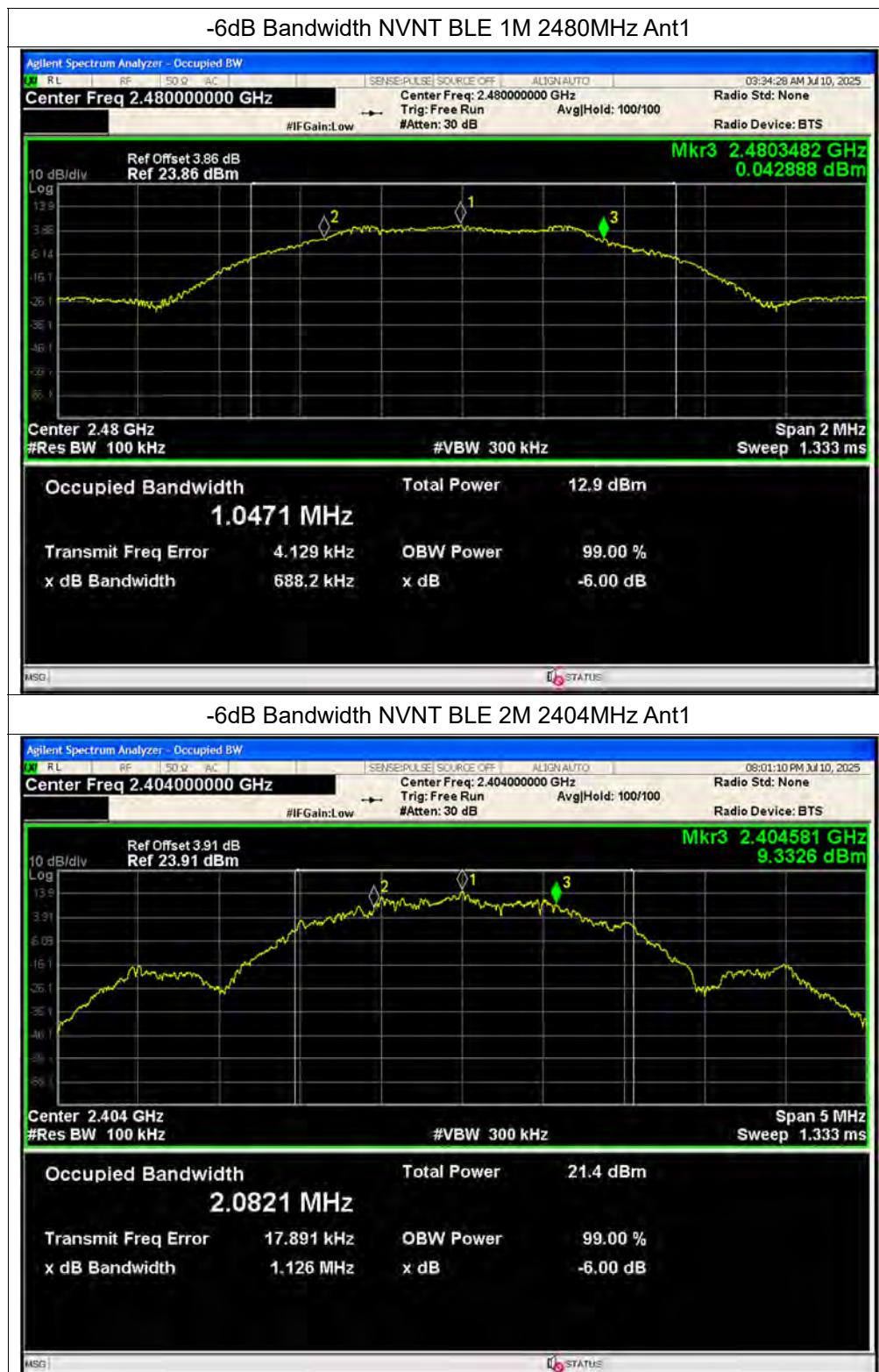
## Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



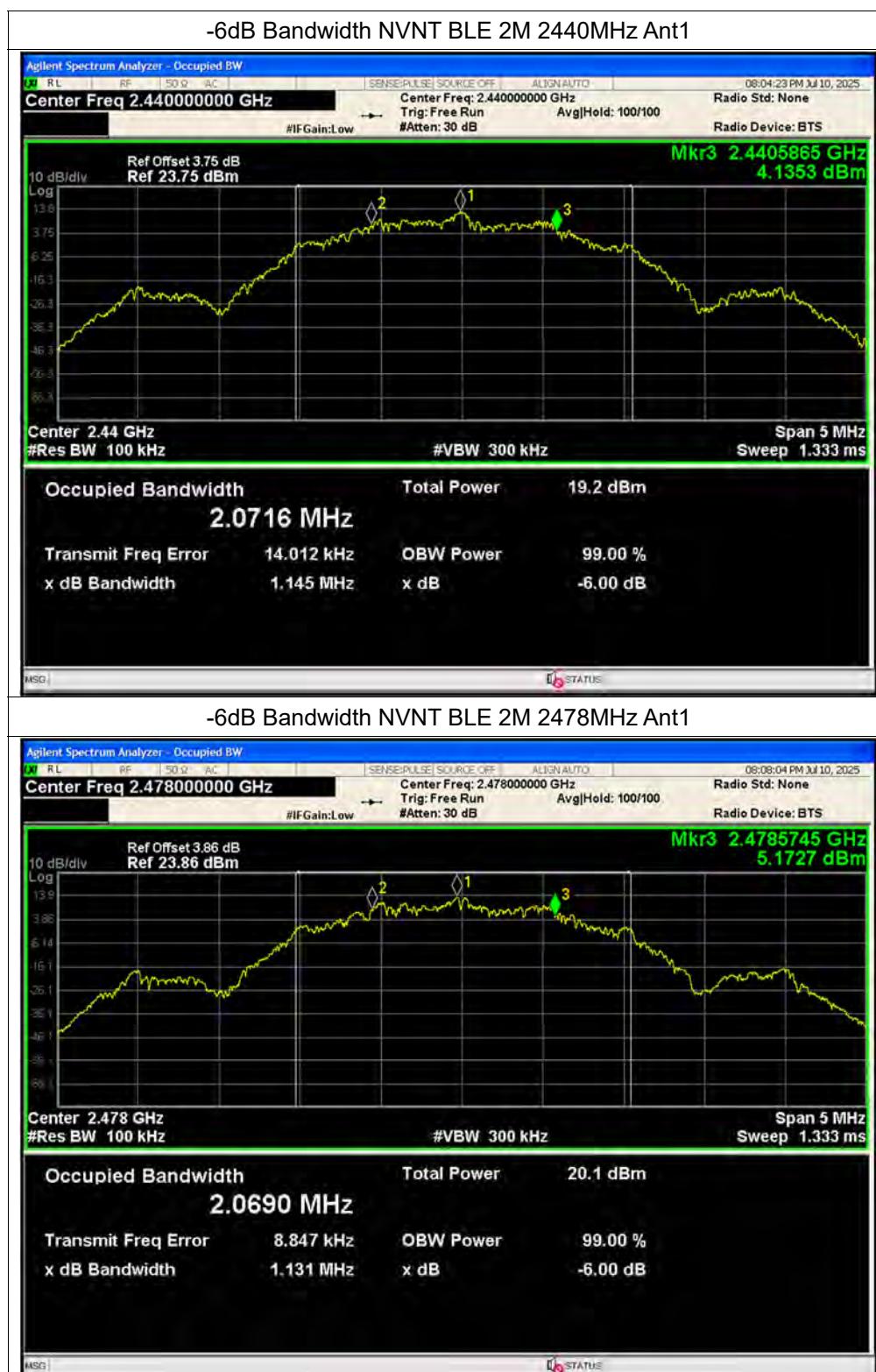
-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1







REPORT No.: SZ25060440W03



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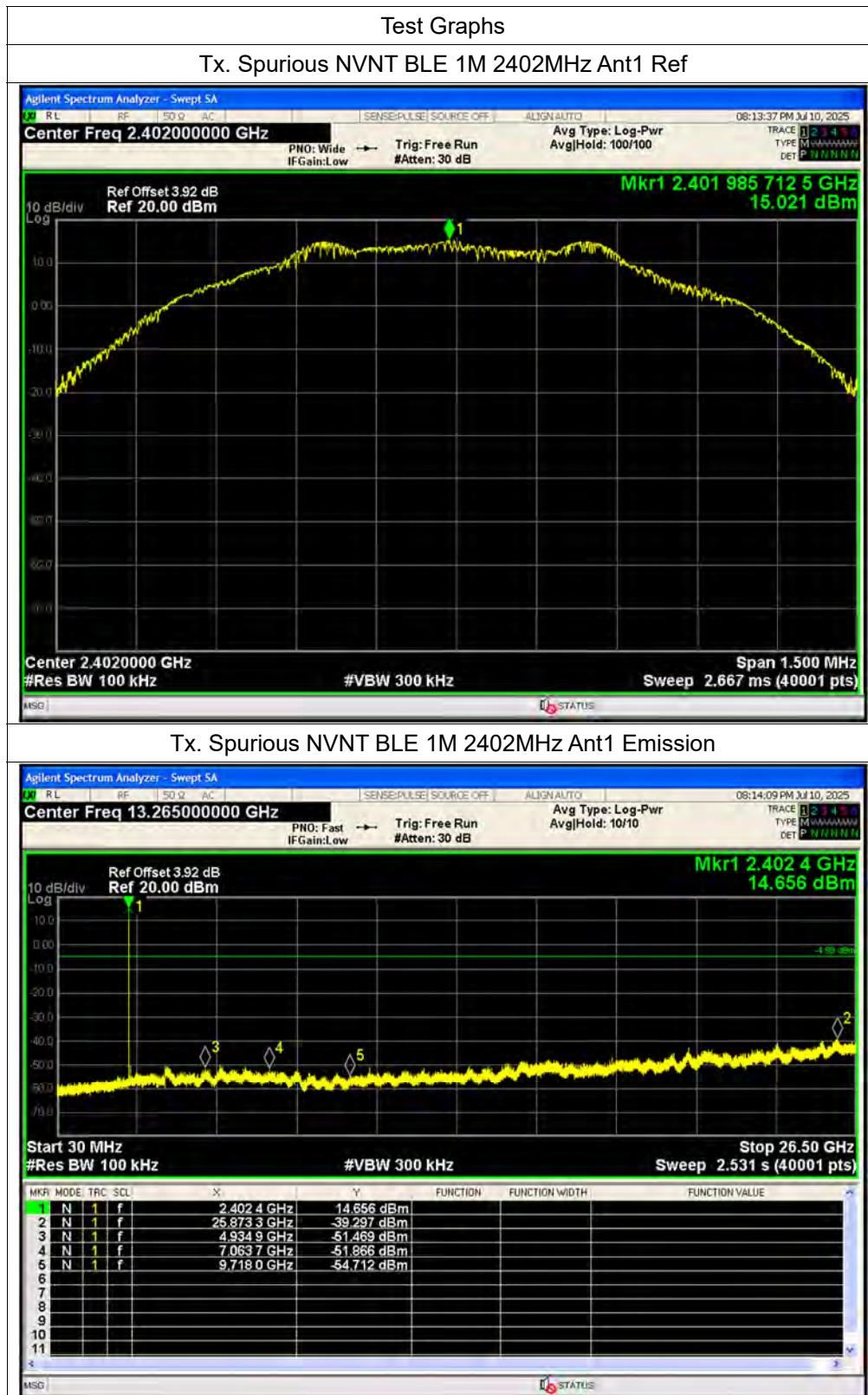
Shenzhen Morlab Communications Technology Co., Ltd.  
FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road,  
Block67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

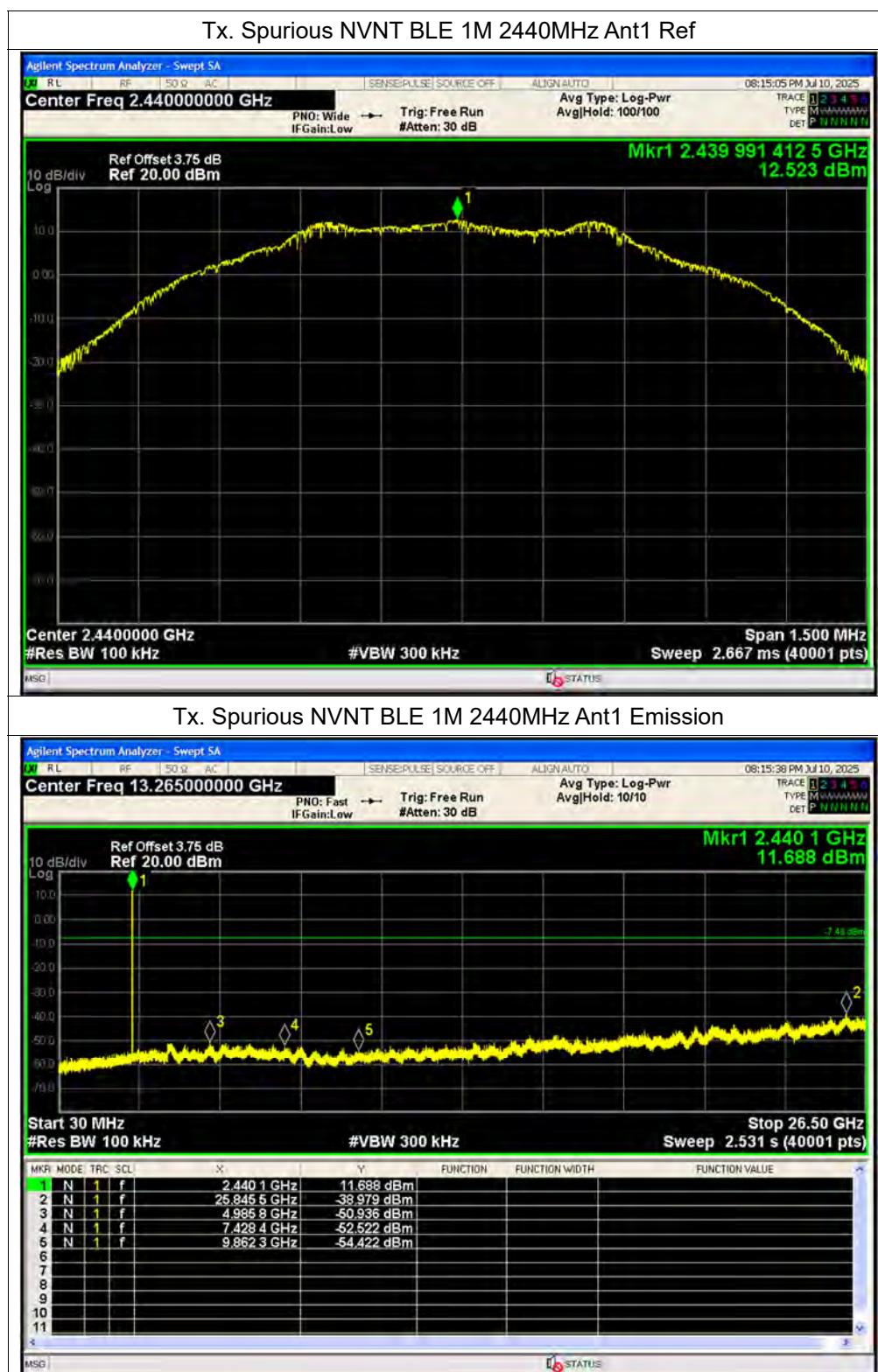
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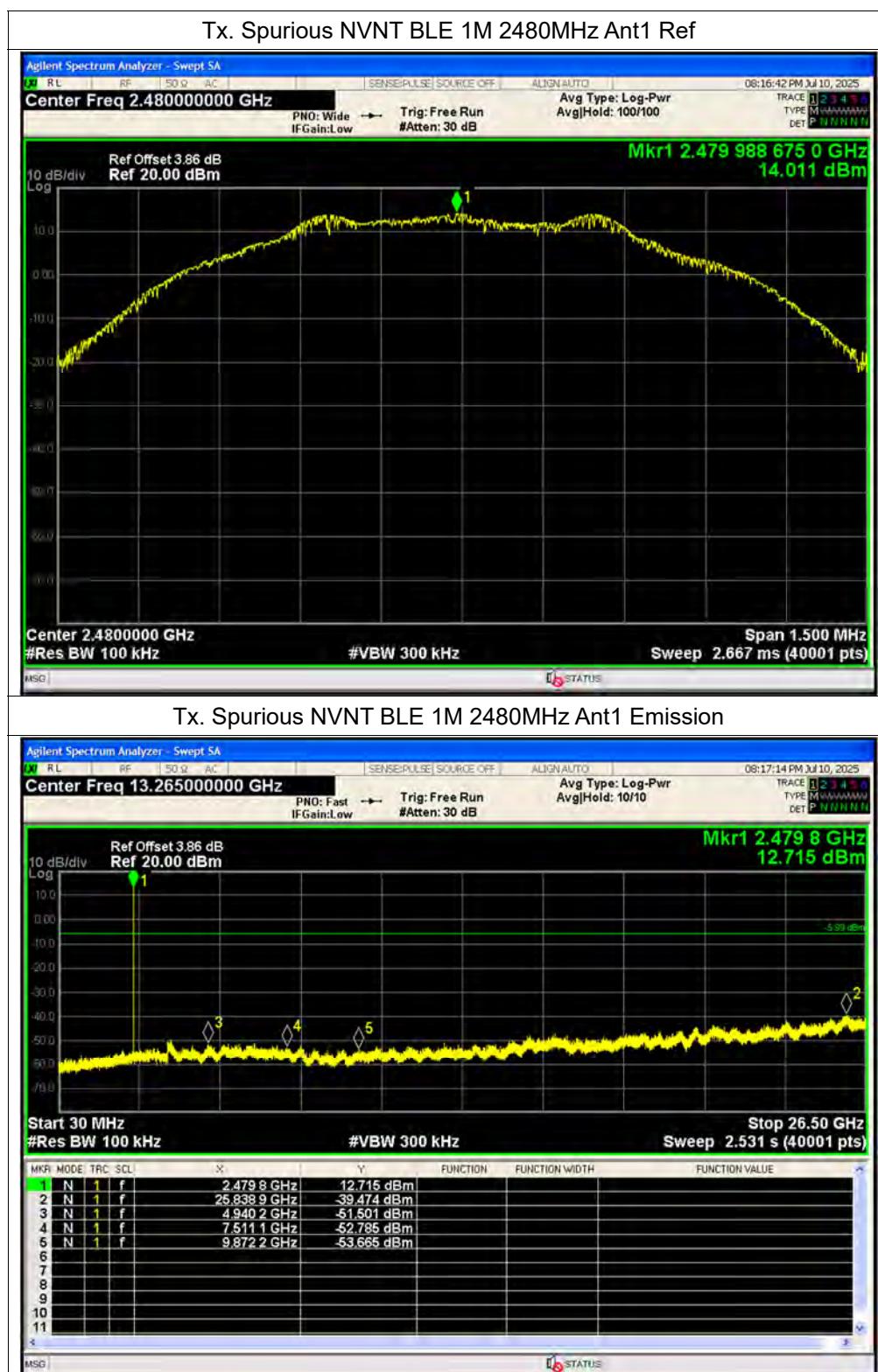


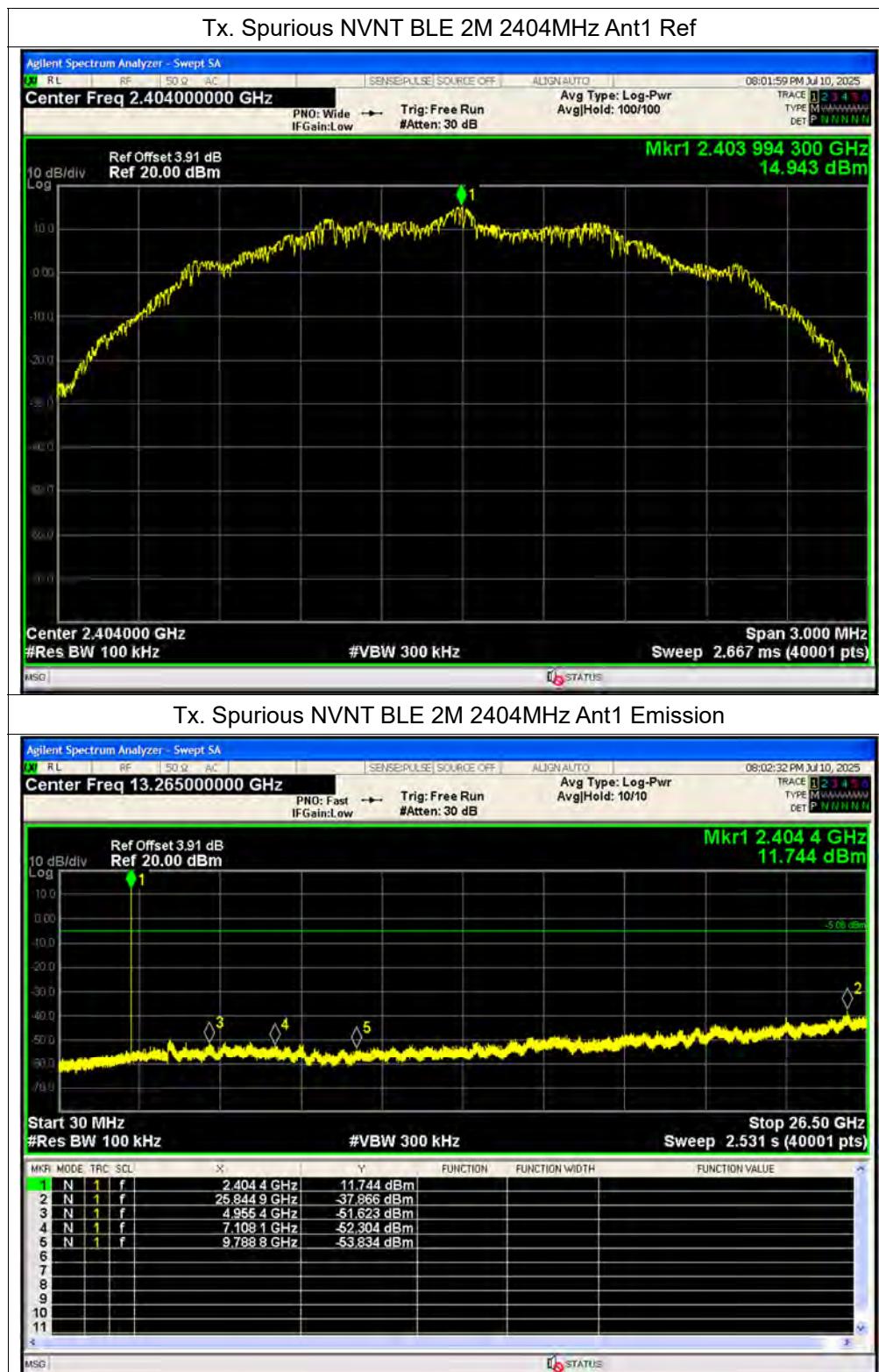
### A.5. Conducted Spurious Emissions

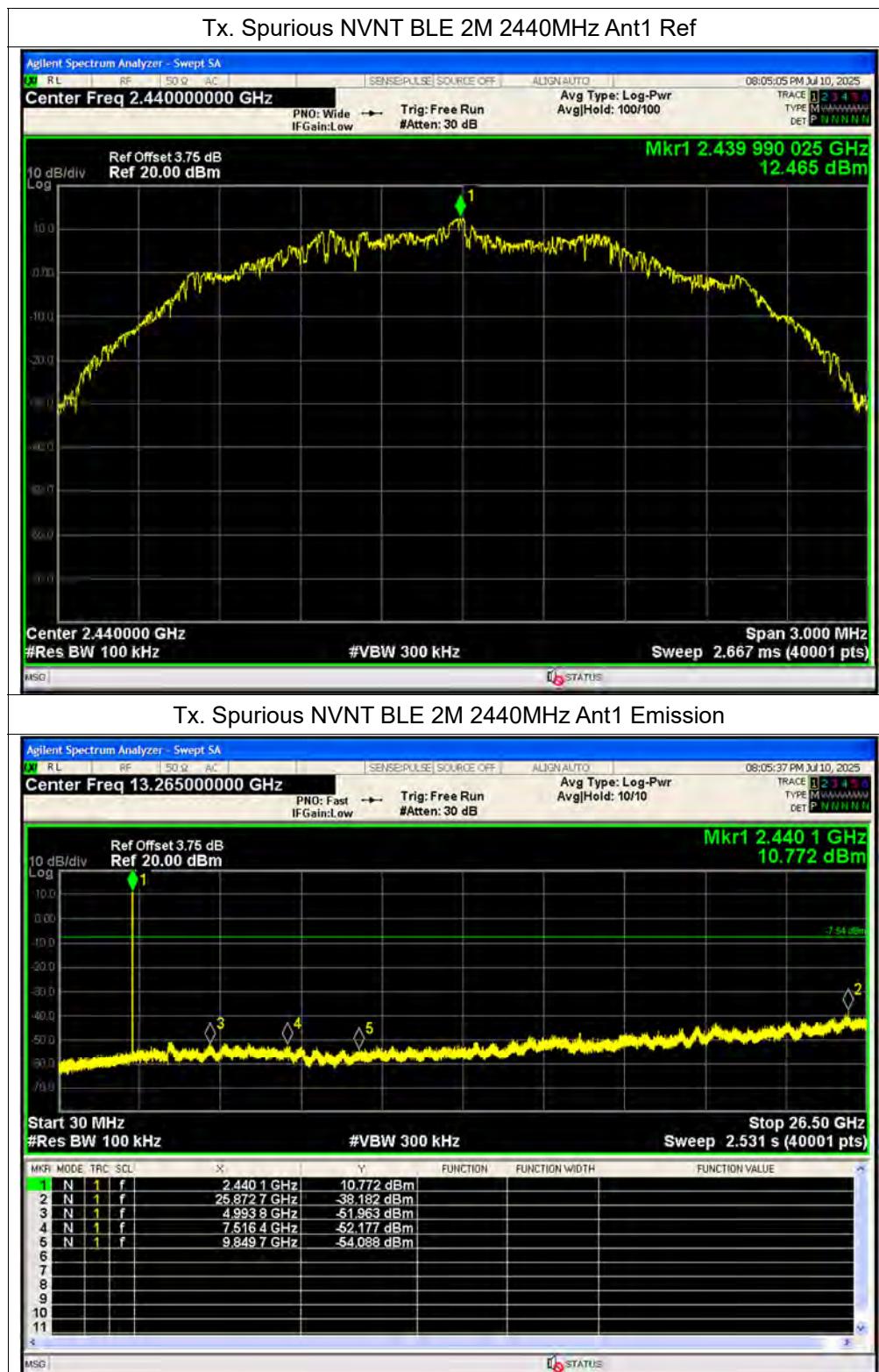
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-54.31	-20	Pass
NVNT	BLE 1M	2440	Ant1	-51.49	-20	Pass
NVNT	BLE 1M	2480	Ant1	-53.48	-20	Pass
NVNT	BLE 2M	2404	Ant1	-52.8	-20	Pass
NVNT	BLE 2M	2440	Ant1	-50.65	-20	Pass
NVNT	BLE 2M	2478	Ant1	-52.96	-20	Pass

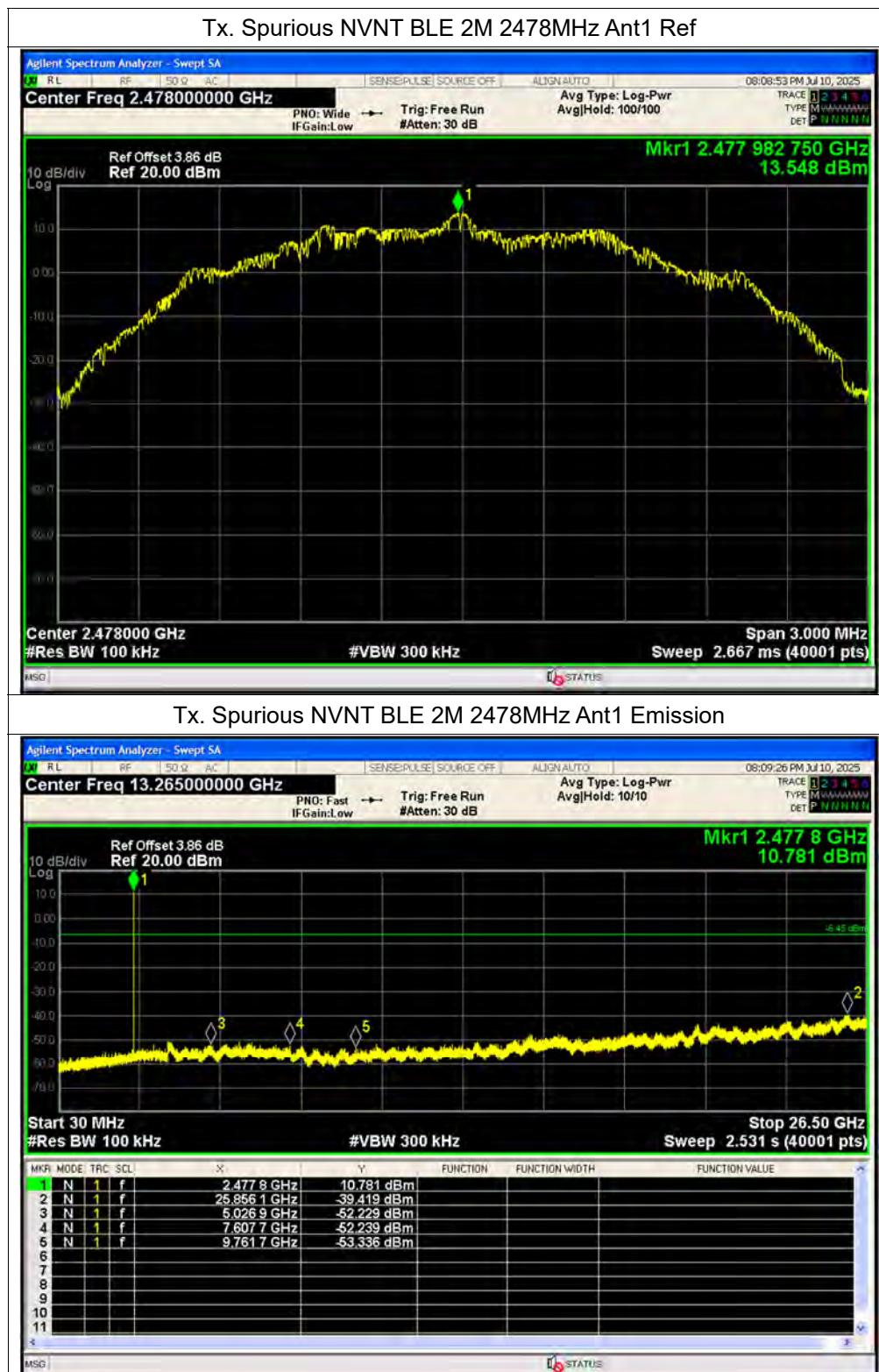














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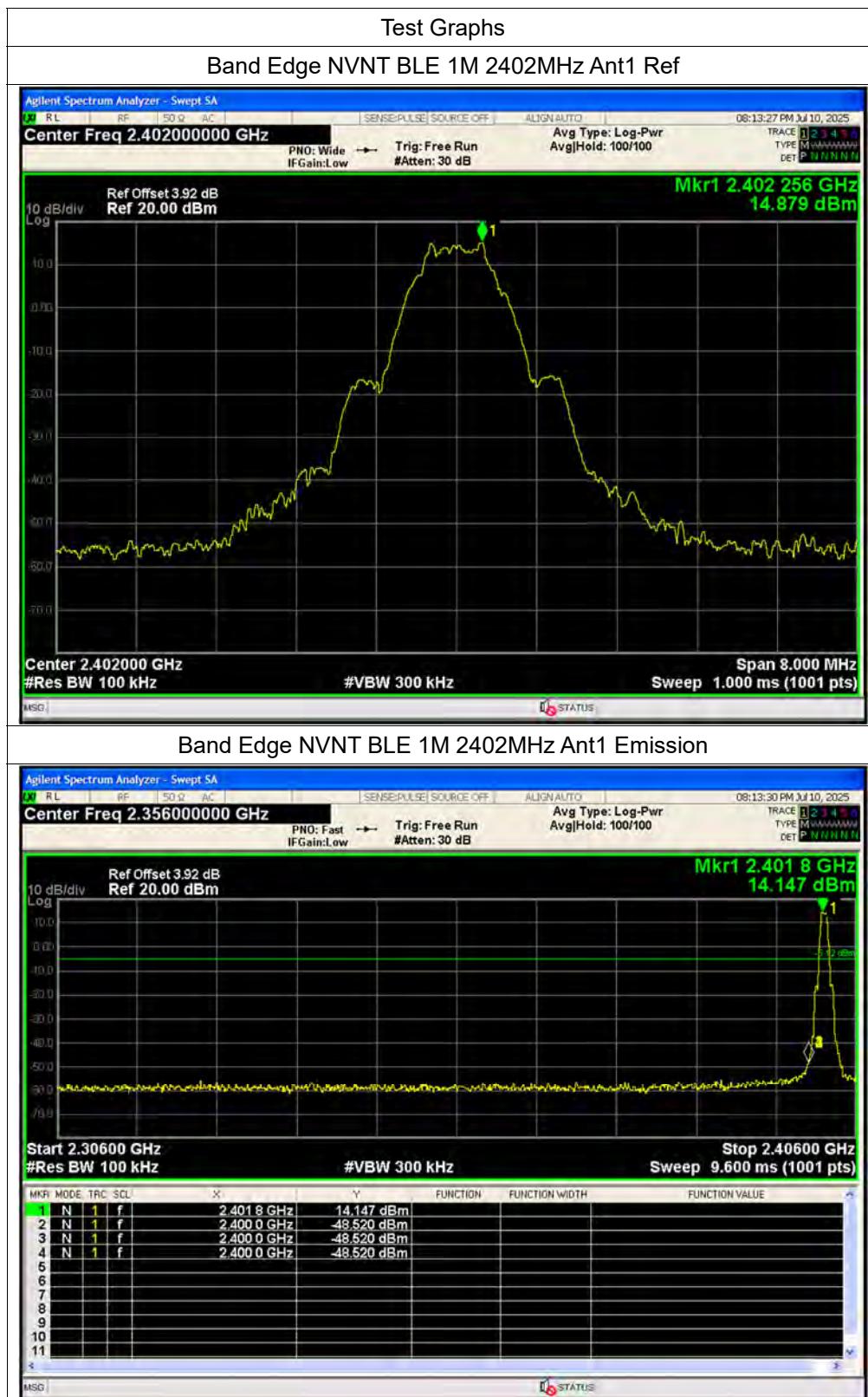
#### A.6. Band Edge

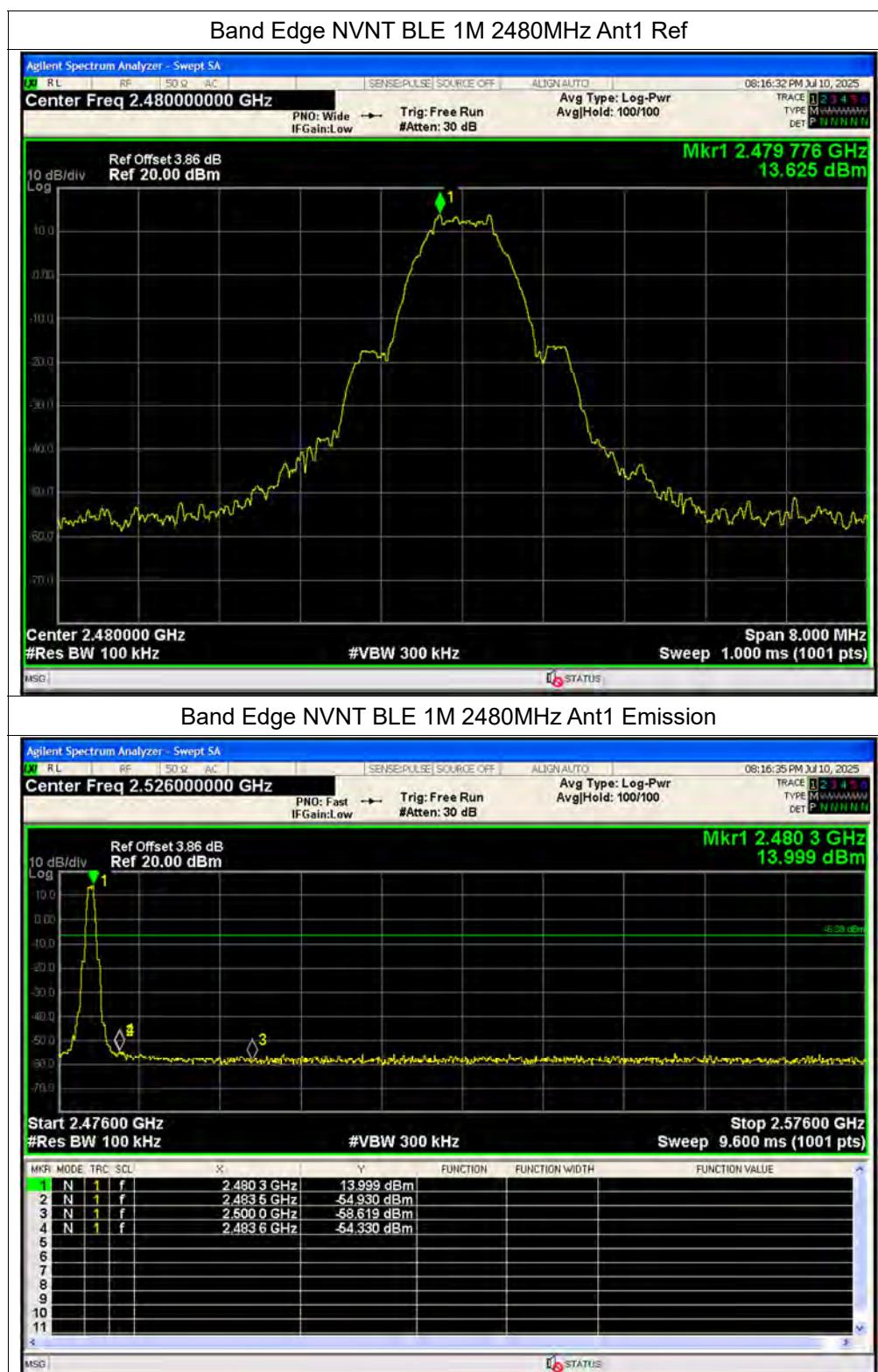
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-63.4	-20	Pass
NVNT	BLE 1M	2480	Ant1	-67.94	-20	Pass
NVNT	BLE 2M	2404	Ant1	-66.92	-20	Pass
NVNT	BLE 2M	2478	Ant1	-66.76	-20	Pass

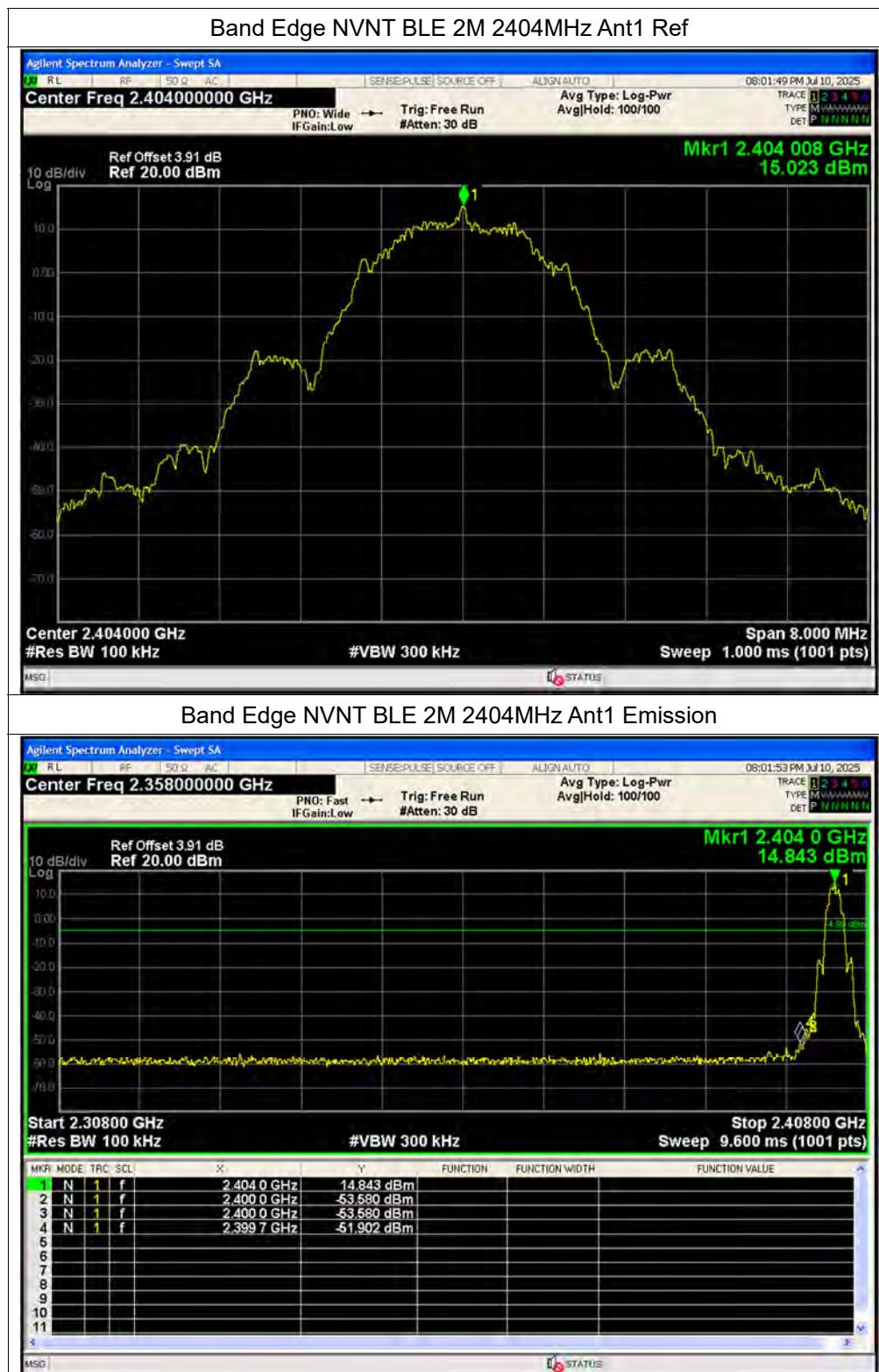
**MORLAB**

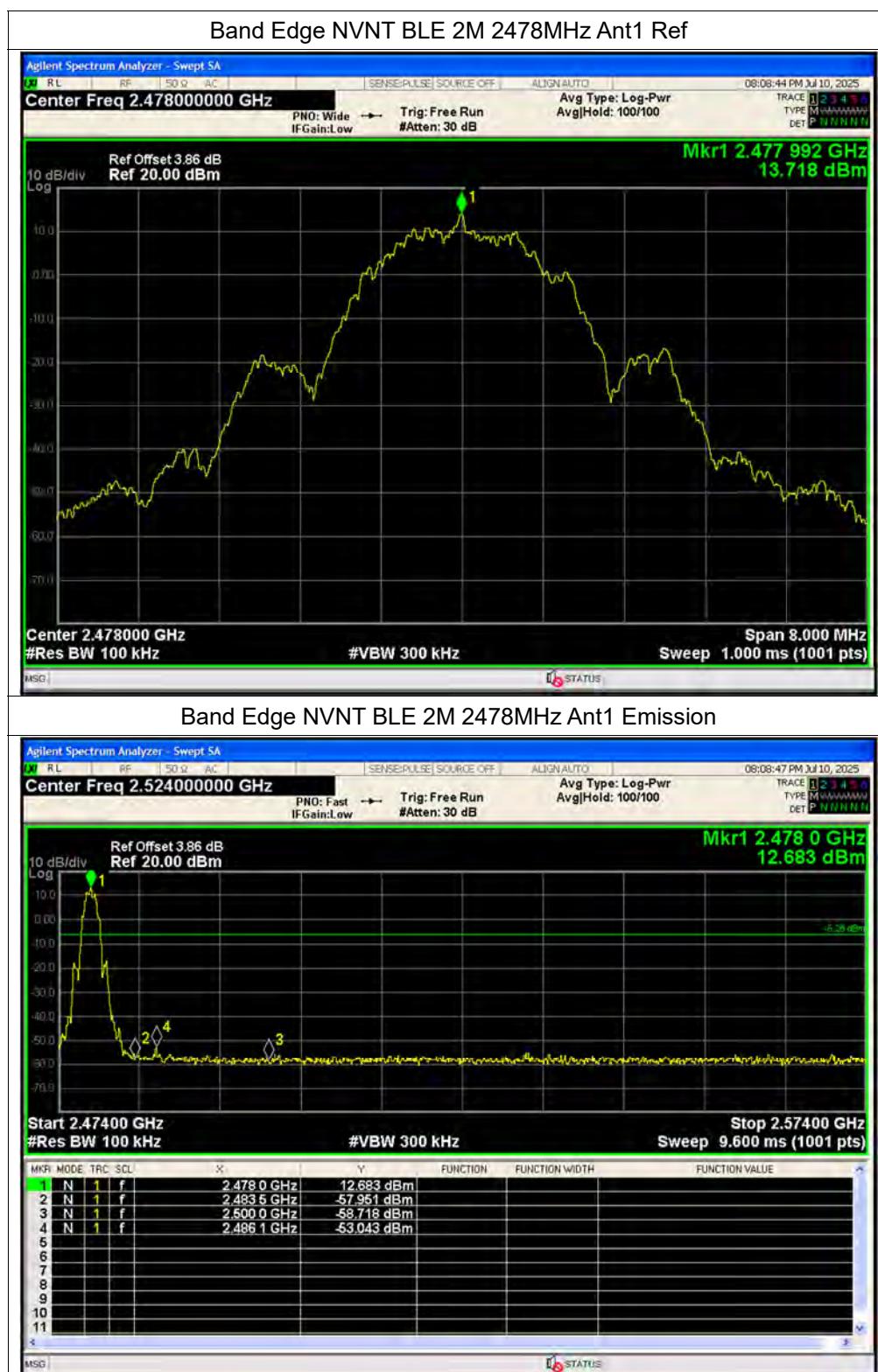
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FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road,  
Block67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

Tel: 86-755-36698555      Fax: 86-755-36698525  
Http://www.morlab.cn      E-mail: service@morlab.cn











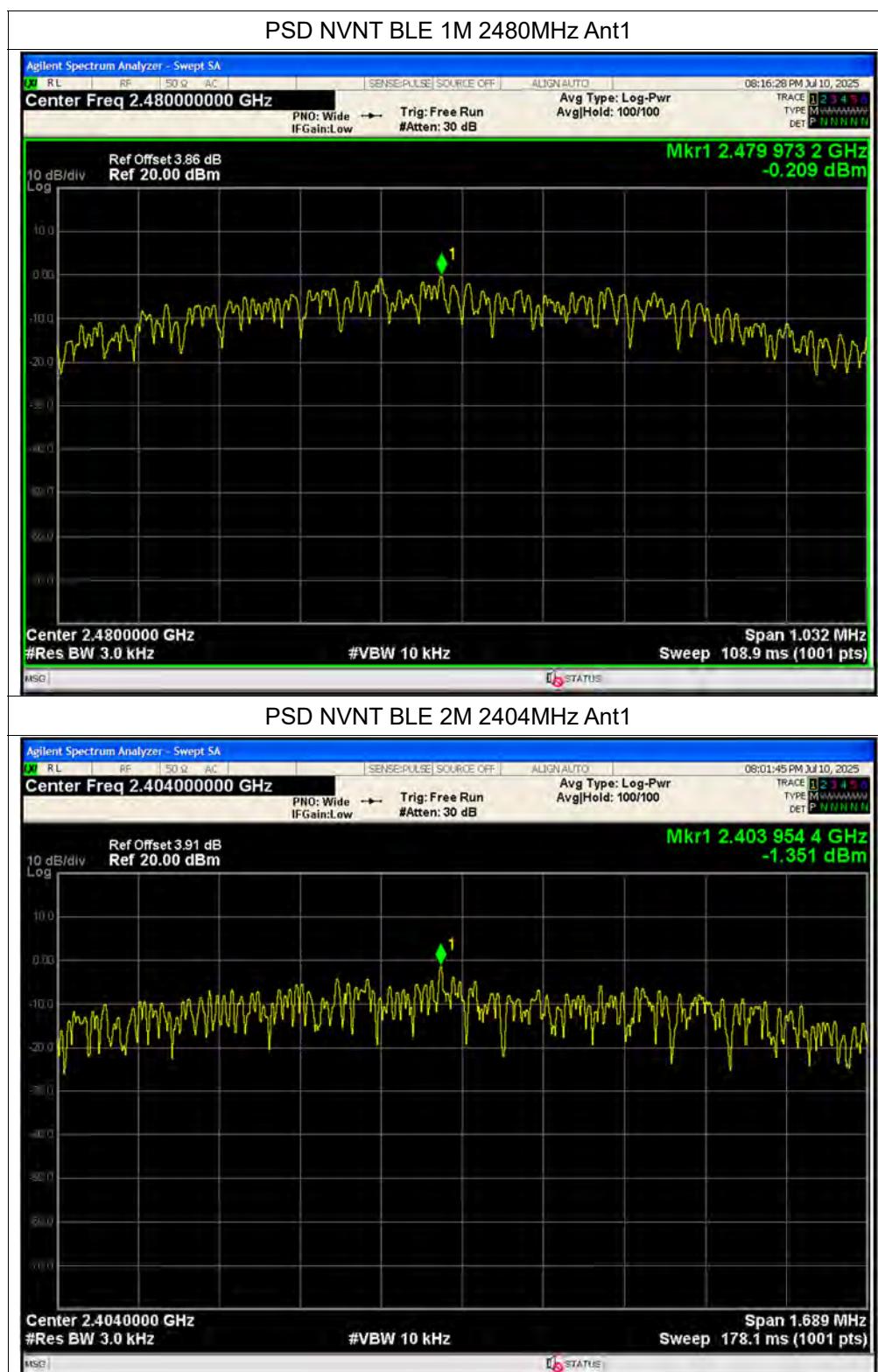
### A.7. Power Spectral Density

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	0.84	0	0.84	8	Pass
NVNT	BLE 1M	2440	Ant1	-1.72	0	-1.72	8	Pass
NVNT	BLE 1M	2480	Ant1	-0.21	0	-0.21	8	Pass
NVNT	BLE 2M	2404	Ant1	-1.35	0	-1.35	8	Pass
NVNT	BLE 2M	2440	Ant1	-3.82	0	-3.82	8	Pass
NVNT	BLE 2M	2478	Ant1	-2.69	0	-2.69	8	Pass





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

Tel: 86-755-36698555  
Fax: 86-755-36698525  
Http://www.morlab.cn  
E-mail: service@morlab.cn





## 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+BLE TX

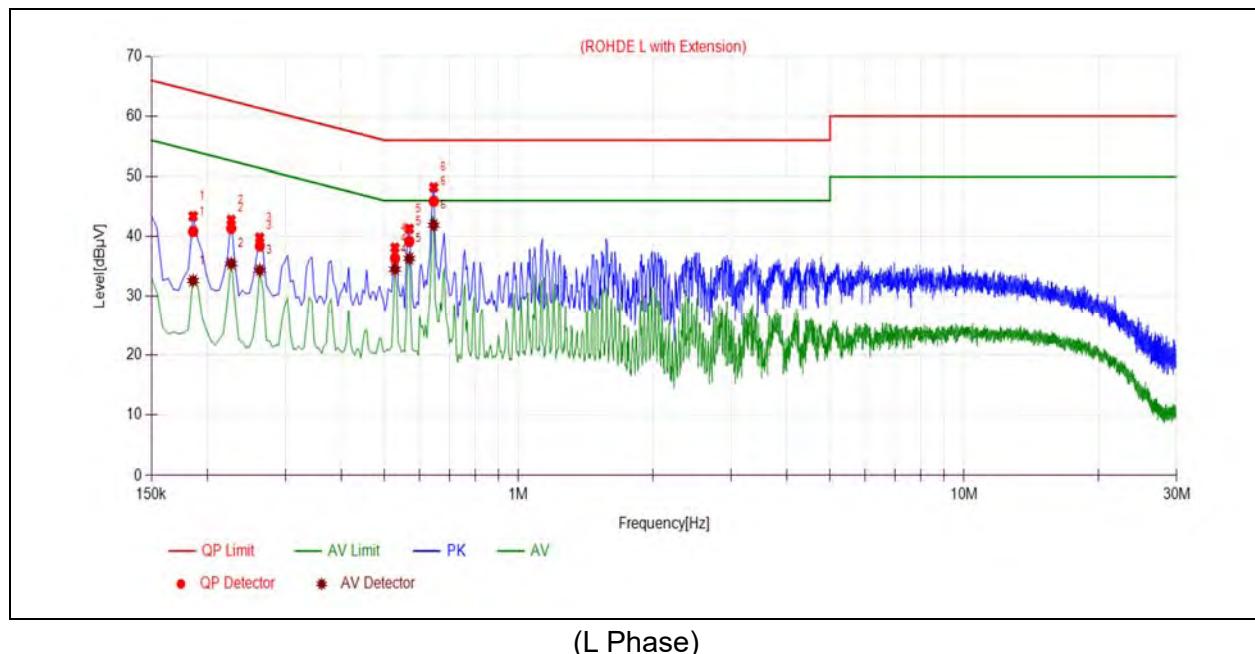
Test voltage: AC 120V/60Hz

The measurement results are obtained as below:

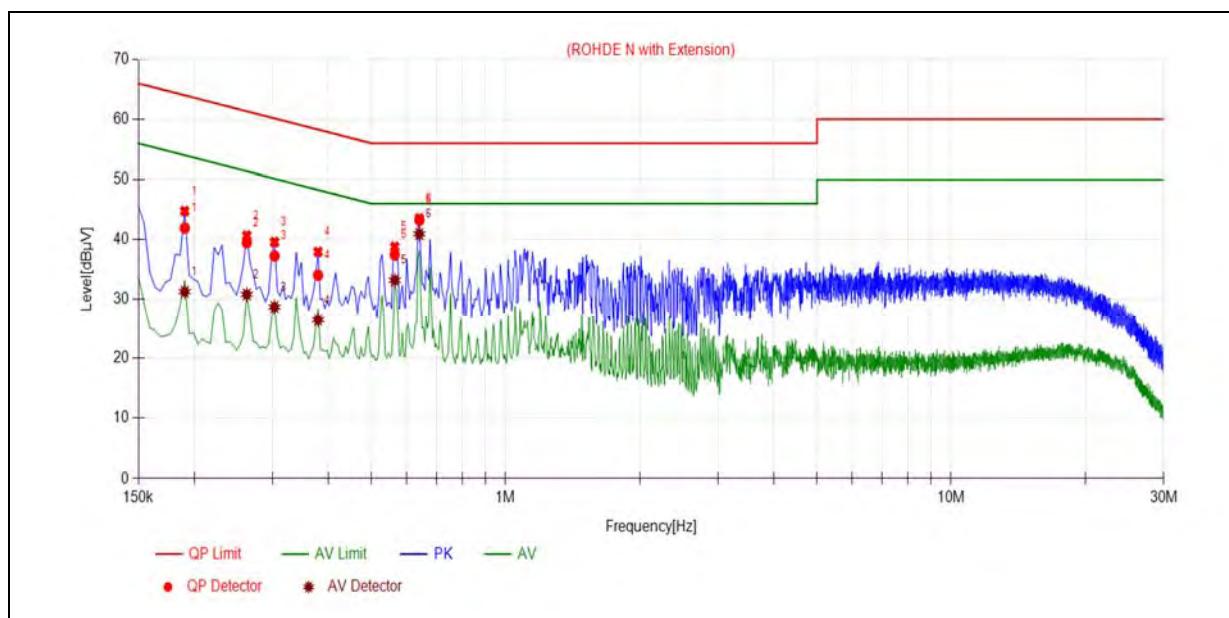
$$E [\text{dB}\mu\text{V}] = U_R + L_{\text{Cable loss}} [\text{dB}] + A_{\text{Factor}}$$

$U_R$ : Receiver Reading

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

**B. Test Plot:**


No.	Fre. (MHz)	Emission Level (dB $\mu$ V)		Limit (dB $\mu$ V)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1860	40.87	32.65	64.21	54.21	Line	PASS
2	0.2265	41.39	35.49	62.58	52.58		PASS
3	0.2625	38.46	34.39	61.35	51.35		PASS
4	0.5280	36.38	34.54	56.00	46.00		PASS
5	0.5685	39.20	36.36	56.00	46.00		PASS
6	0.6451	45.92	41.92	56.00	46.00		PASS



(N Phase)

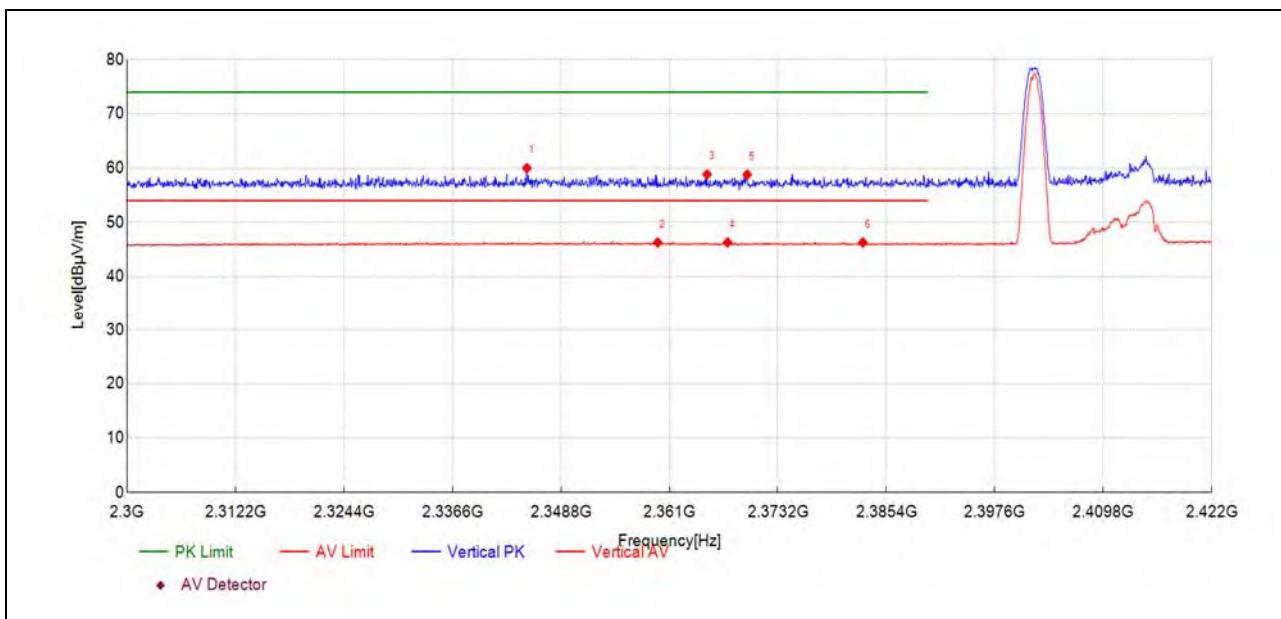
No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1905	41.94	31.29	64.02	54.02	Neutral	PASS
2	0.2625	39.50	30.84	61.35	51.35		PASS
3	0.3030	37.29	28.73	60.16	50.16		PASS
4	0.3795	34.06	26.49	58.29	48.29		PASS
5	0.5639	37.47	33.22	56.00	46.00		PASS
6	0.6405	43.24	40.95	56.00	46.00		PASS

### A.9. Restricted Frequency Bands

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

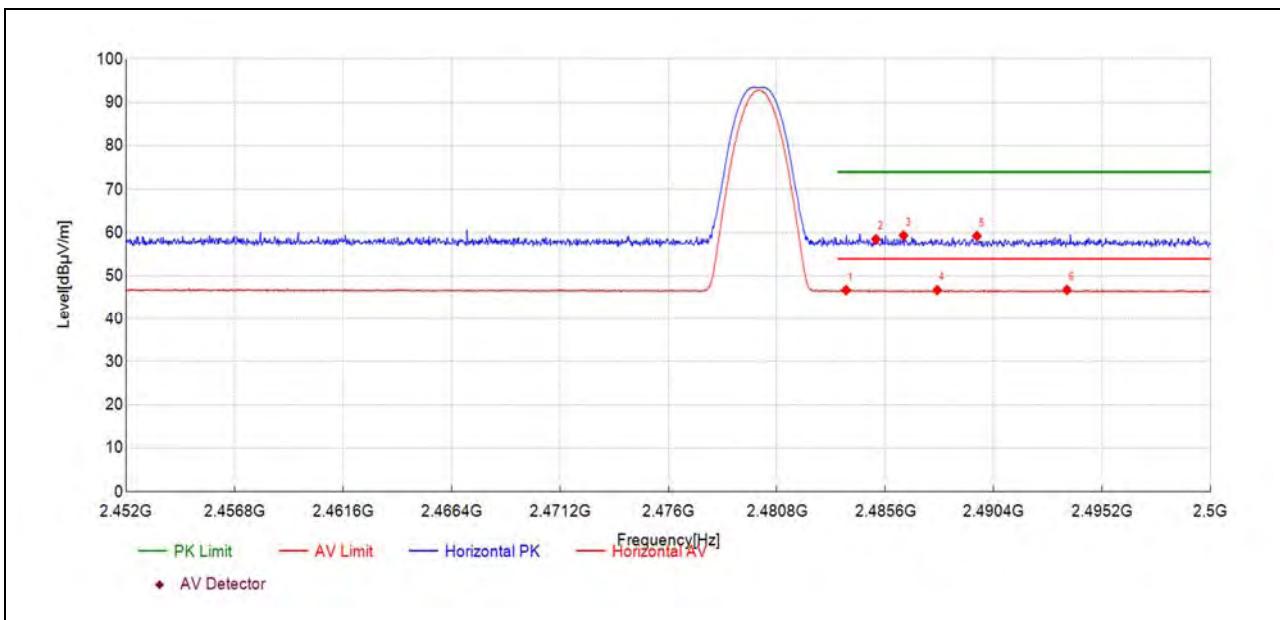
#### 1Mbps

Plot for Channel 0



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2344.98	22.6	60.00	37.410	74.00	14.00	150	272	PK	PASS
2359.69	8.8	46.28	37.460	54.00	7.72	150	14	AV	PASS
2365.24	21.4	58.83	37.470	74.00	15.17	150	42	PK	PASS
2367.56	8.8	46.29	37.470	54.00	7.71	150	272	AV	PASS
2369.76	21.3	58.80	37.470	74.00	15.20	150	263	PK	PASS
2382.76	8.8	46.29	37.480	54.00	7.71	150	206	AV	PASS

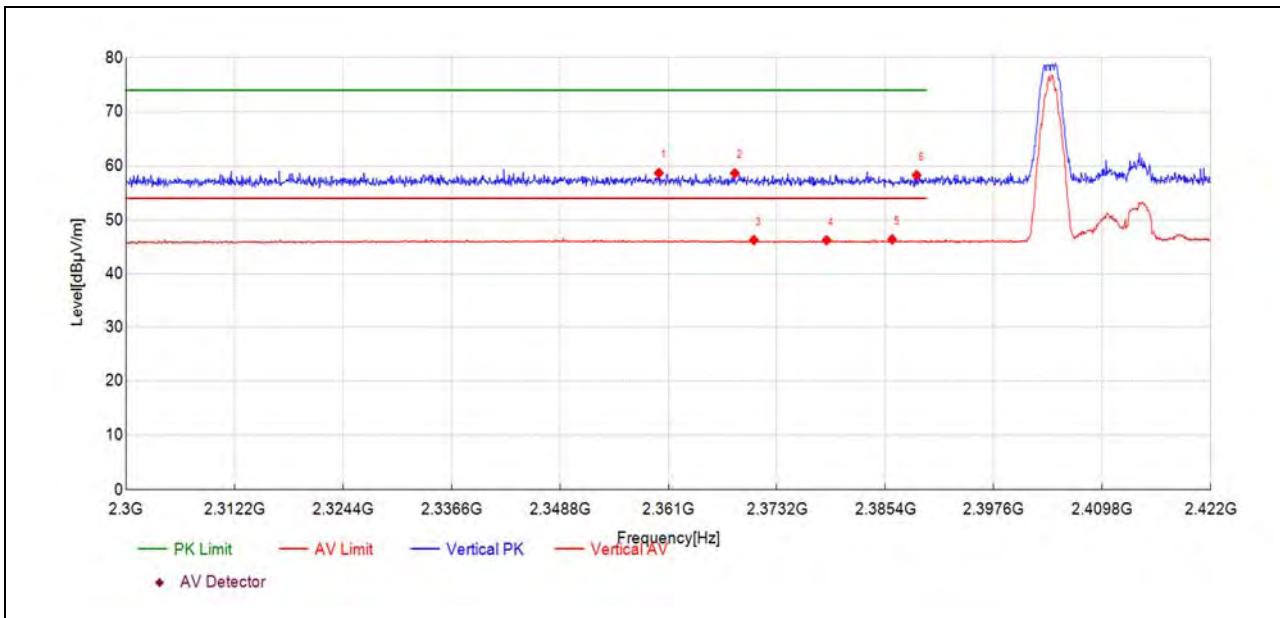
## Plot for Channel 39



Fre. (MHz)	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Factor [dB/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2483.86	8.5	46.73	38.270	54.00	7.27	150	201	AV	PASS
2485.18	20.3	58.52	38.270	74.00	15.48	150	75	PK	PASS
2486.41	21.1	59.38	38.270	74.00	14.62	150	51	PK	PASS
2487.90	8.5	46.76	38.270	54.00	7.24	150	290	AV	PASS
2489.65	21.0	59.26	38.260	74.00	14.74	150	290	PK	PASS
2493.64	8.5	46.78	38.260	54.00	7.22	150	248	AV	PASS

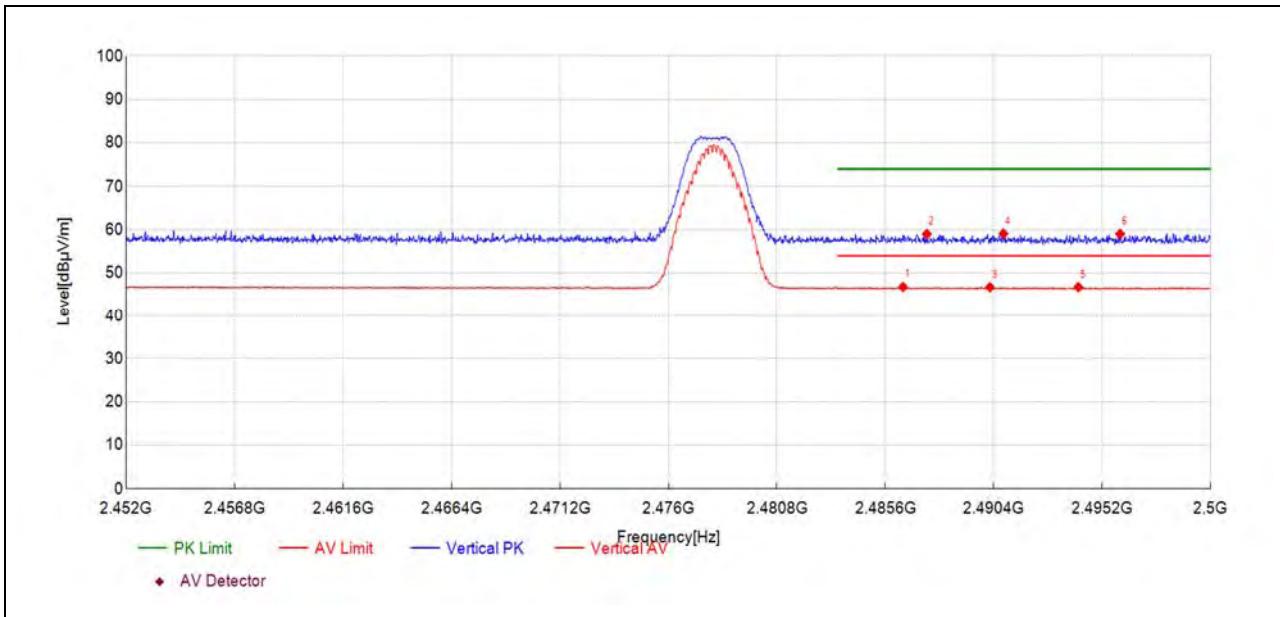
**2Mbps**

Plot for Channel 0



Fre. (MHz)	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Factor [dB/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2359.93	21.2	58.68	37.460	74.00	15.32	150	257	PK	PASS
2368.48	21.2	58.64	37.470	74.00	15.36	150	97	PK	PASS
2370.61	8.8	46.29	37.470	54.00	7.71	150	182	AV	PASS
2378.79	8.8	46.25	37.480	54.00	7.75	150	229	AV	PASS
2386.18	8.9	46.41	37.490	54.00	7.59	150	219	AV	PASS
2388.92	20.8	58.28	37.490	74.00	15.72	150	327	PK	PASS

## Plot for Channel 38



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2486.39	8.5	46.76	38.270	54.00	7.24	150	294	AV	PASS
2487.44	20.7	59.01	38.270	74.00	14.99	150	163	PK	PASS
2490.23	8.4	46.71	38.270	54.00	7.29	150	83	AV	PASS
2490.83	20.8	59.10	38.270	74.00	14.90	150	313	PK	PASS
2494.14	8.5	46.73	38.260	54.00	7.27	150	206	AV	PASS
2495.99	20.8	59.05	38.260	74.00	14.95	150	31	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:

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

$A_T$ : Total correction Factor except Antenna

$U_R$ : Receiver Reading

$G_{preamp}$ : Preamplifier Gain

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

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

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

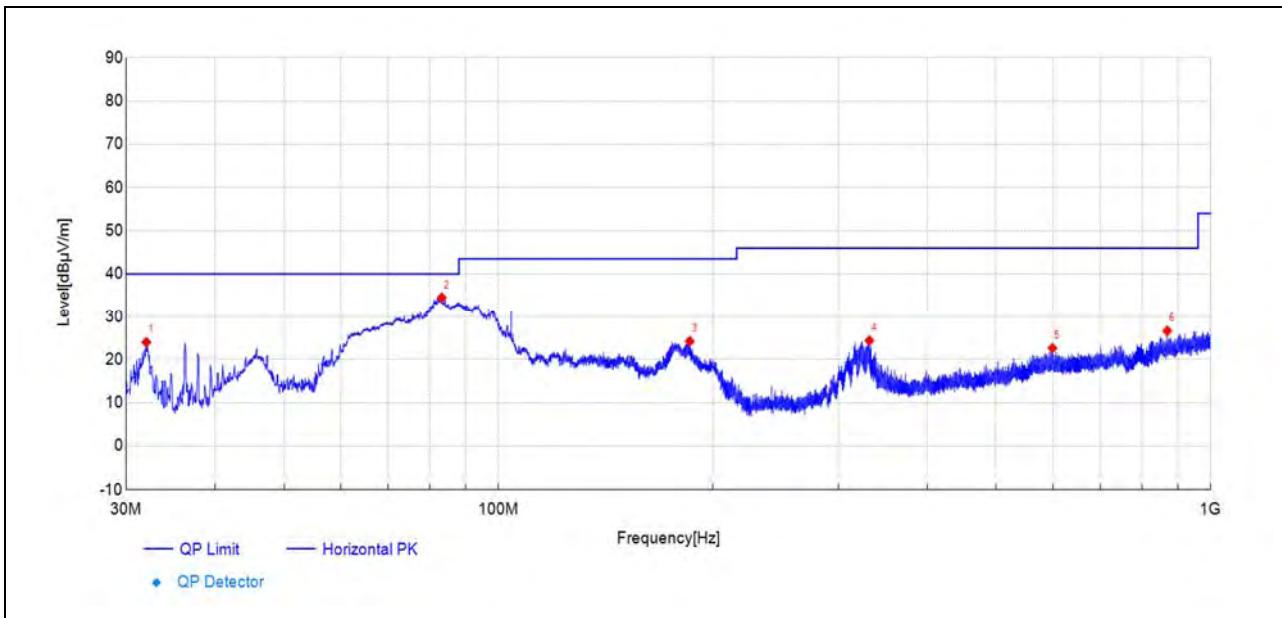
**Note2:** For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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

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

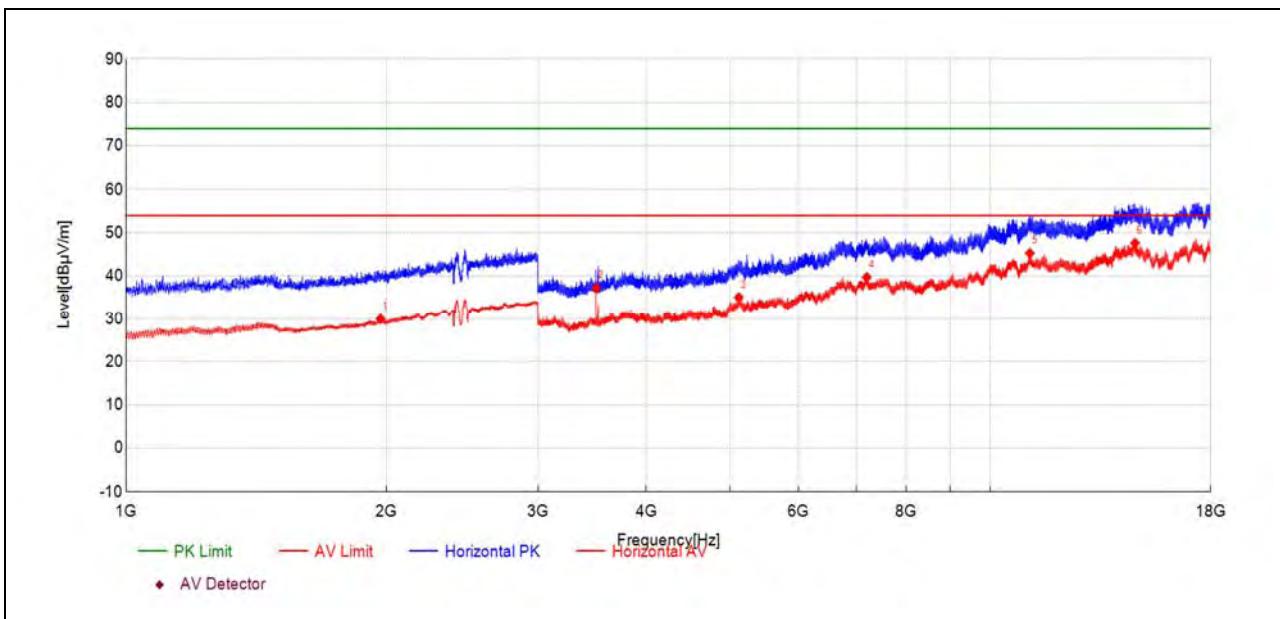
**1Mbps**

Plot for Channel 0



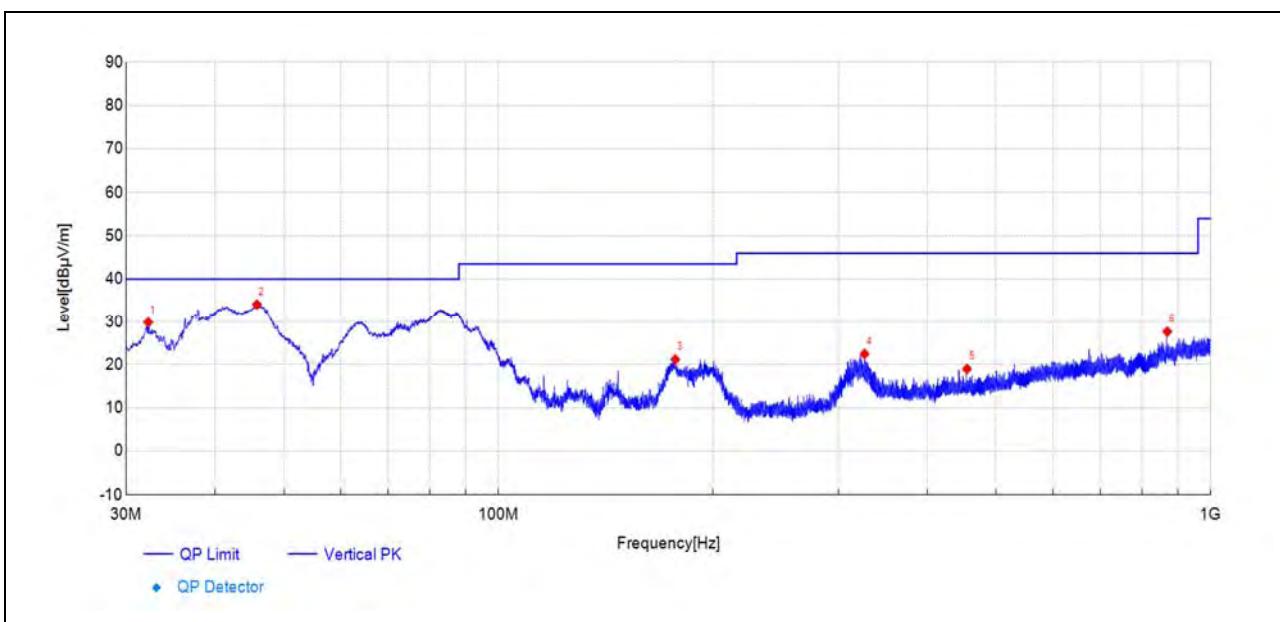
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
32.04	54.5	23.99	-30.480	40.00	16.01	150	345	PK	PASS
83.26	66.3	34.49	-31.760	40.00	5.51	150	131	PK	PASS
185.60	54.5	24.22	-30.280	43.50	19.28	150	259	PK	PASS
331.64	48.7	24.37	-24.370	46.00	21.63	150	91	PK	PASS
599.52	39.5	22.61	-16.930	46.00	23.39	150	96	PK	PASS
869.14	39.0	26.62	-12.420	46.00	19.38	150	177	PK	PASS



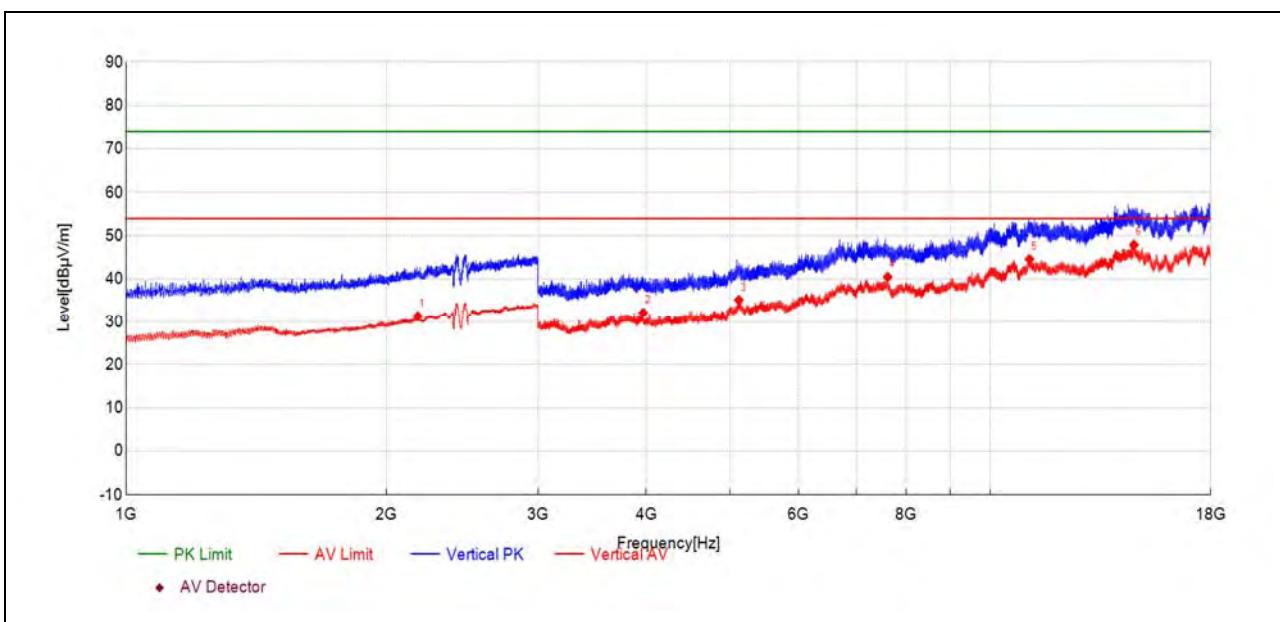
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1970.59	27.6	29.93	2.370	54.00	24.07	150	331	AV	PASS
3502.30	47.0	37.18	-9.810	54.00	16.82	150	123	AV	PASS
5118.92	38.1	35.02	-3.040	54.00	18.98	150	110	AV	PASS
7197.55	34.6	39.72	5.090	54.00	14.28	150	70	AV	PASS
11115.23	31.3	45.29	13.980	54.00	8.71	150	136	AV	PASS
14712.33	27.1	47.62	20.490	54.00	6.38	150	256	AV	PASS



(Antenna Vertical, 30MHz to 1GHz)

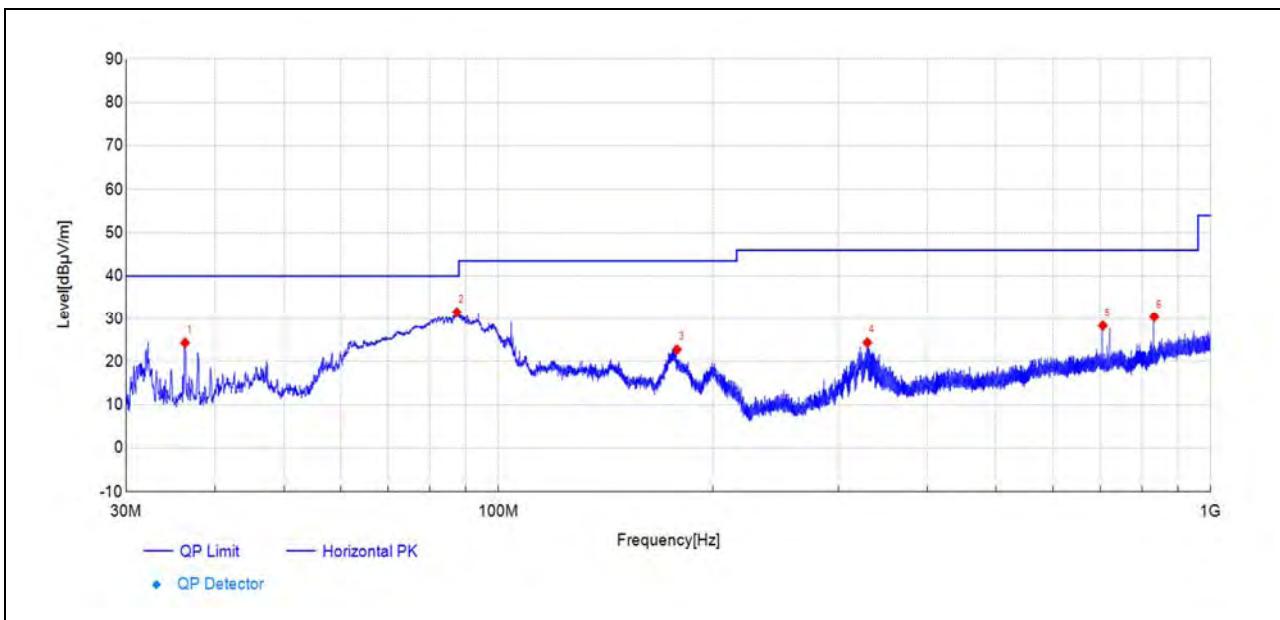
Fre. (MHz)	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Factor [dB/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
32.23	60.3	29.83	-30.480	40.00	10.17	150	325	PK	PASS
45.81	62.5	34.08	-28.390	40.00	5.92	150	340	PK	PASS
177.06	51.6	21.16	-30.430	43.50	22.34	150	156	PK	PASS
326.64	47.0	22.45	-24.510	46.00	23.55	150	0	PK	PASS
454.83	40.6	18.98	-21.640	46.00	27.02	150	64	PK	PASS
869.09	40.1	27.63	-12.430	46.00	18.37	150	33	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

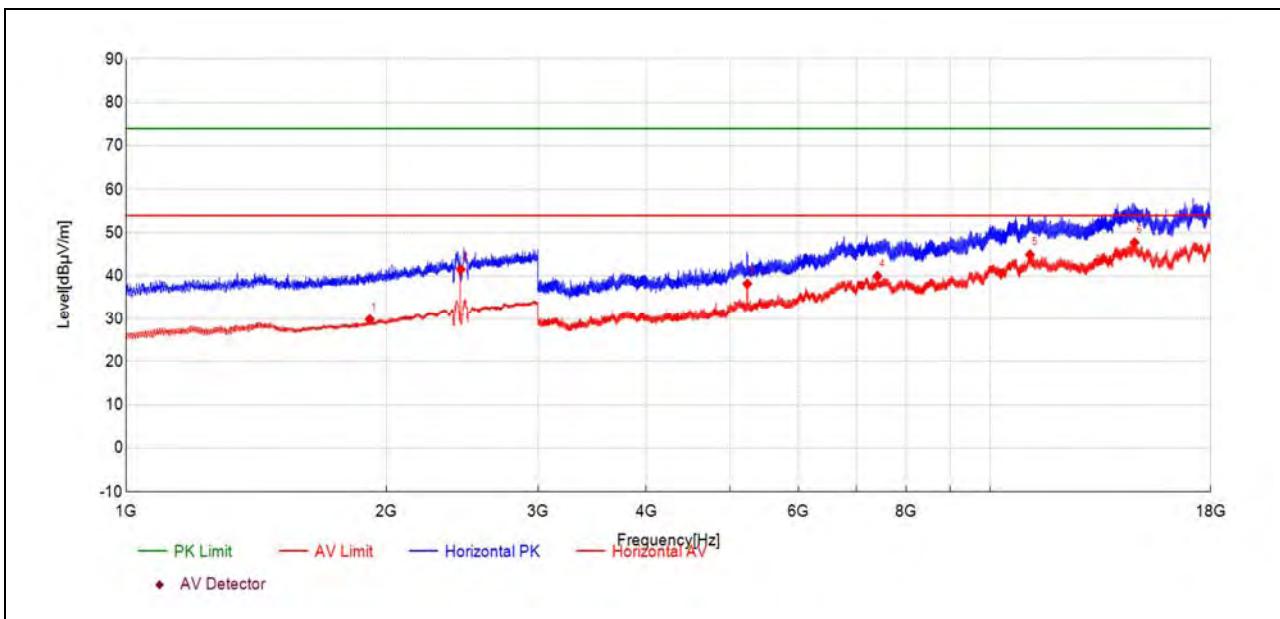
Fre. (MHz)	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Factor [dB/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2176.24	27.4	31.29	3.930	54.00	22.71	150	165	AV	PASS
3966.88	40.0	32.10	-7.890	54.00	21.90	150	135	AV	PASS
5119.35	38.1	35.11	-3.030	54.00	18.89	150	284	AV	PASS
7611.13	35.6	40.45	4.890	54.00	13.55	150	244	AV	PASS
11105.37	30.6	44.60	14.040	54.00	9.40	150	0	AV	PASS
14667.76	27.4	47.91	20.520	54.00	6.09	150	135	AV	PASS

## Plot for Channel 19



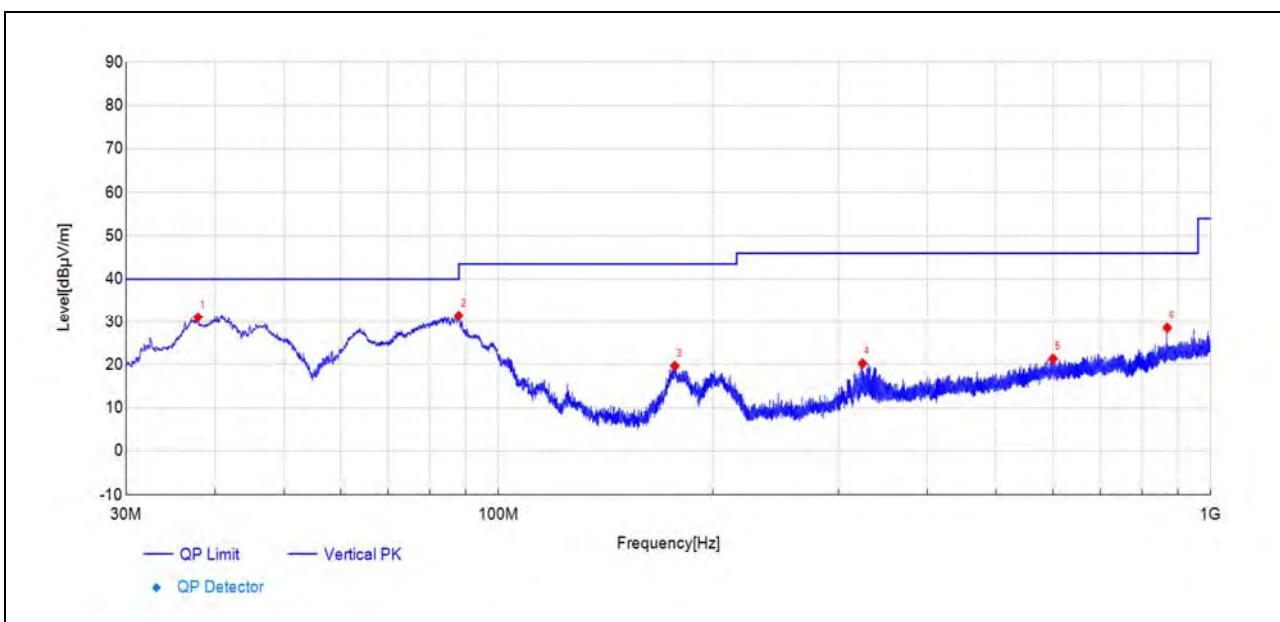
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
36.31	53.8	24.31	-29.500	40.00	15.69	150	173	PK	PASS
87.43	63.6	31.50	-32.090	40.00	8.50	150	305	PK	PASS
177.98	53.7	22.75	-30.970	43.50	20.75	150	39	PK	PASS
329.45	48.7	24.39	-24.260	46.00	21.61	150	96	PK	PASS
705.44	44.0	28.34	-15.610	46.00	17.66	150	96	PK	PASS
832.91	44.4	30.37	-14.070	46.00	15.63	150	244	PK	PASS



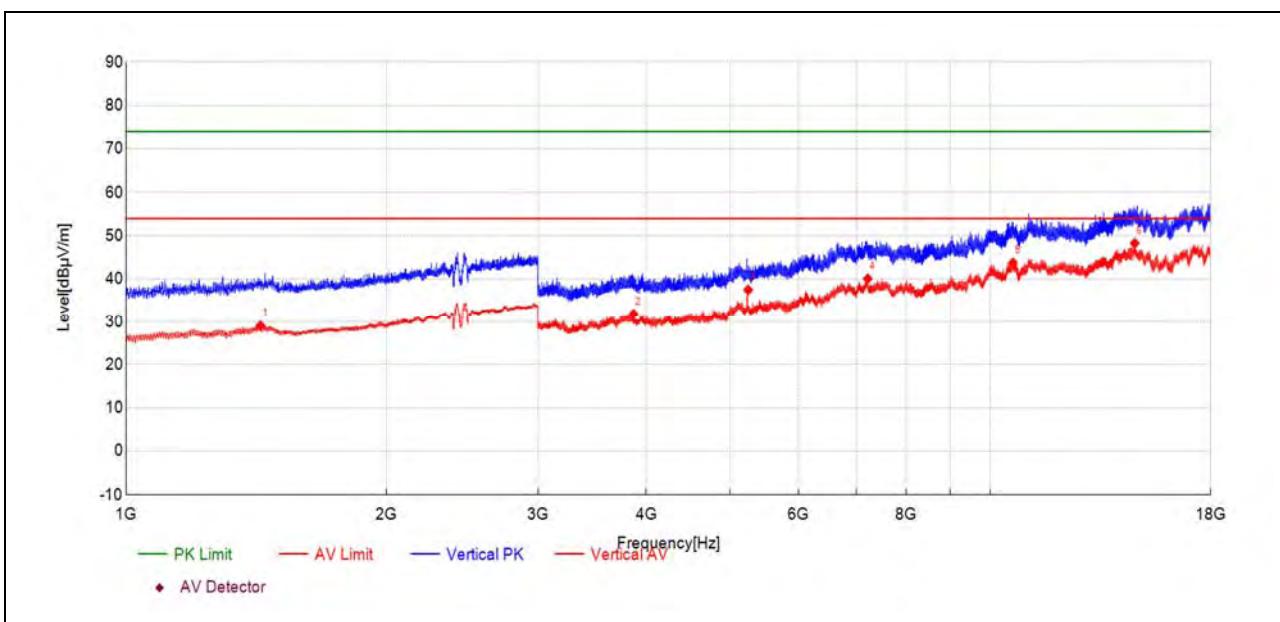
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Factor [dB/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1914.18	27.9	29.79	1.870	54.00	24.21	150	277	AV	PASS
2440.29	35.7	41.54	5.820	-	-	150	91	AV	NA
5235.49	41.3	38.18	-3.070	54.00	15.82	150	351	AV	PASS
7406.27	35.3	39.99	4.720	54.00	14.01	150	176	AV	PASS
11120.80	31.0	44.95	13.960	54.00	9.05	150	43	AV	PASS
14694.76	27.2	47.74	20.580	54.00	6.26	150	164	AV	PASS



(Antenna Vertical, 30MHz to 1GHz)

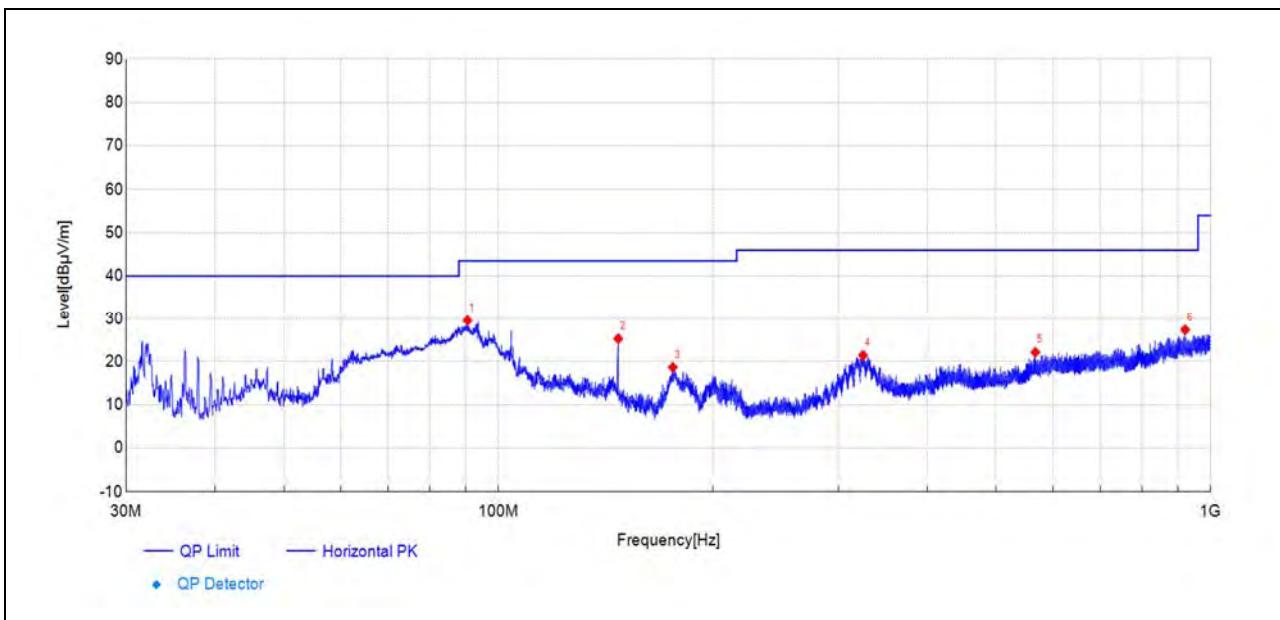
Fre. (MHz)	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Factor [dB/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
37.86	60.6	31.05	-29.510	40.00	8.95	150	336	PK	PASS
87.96	63.4	31.41	-31.980	40.00	8.59	150	38	PK	PASS
176.87	50.1	19.67	-30.440	43.50	23.83	150	151	PK	PASS
324.41	44.9	20.23	-24.700	46.00	25.77	150	130	PK	PASS
600.63	38.2	21.32	-16.880	46.00	24.68	150	192	PK	PASS
869.09	41.0	28.52	-12.430	46.00	17.48	150	202	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

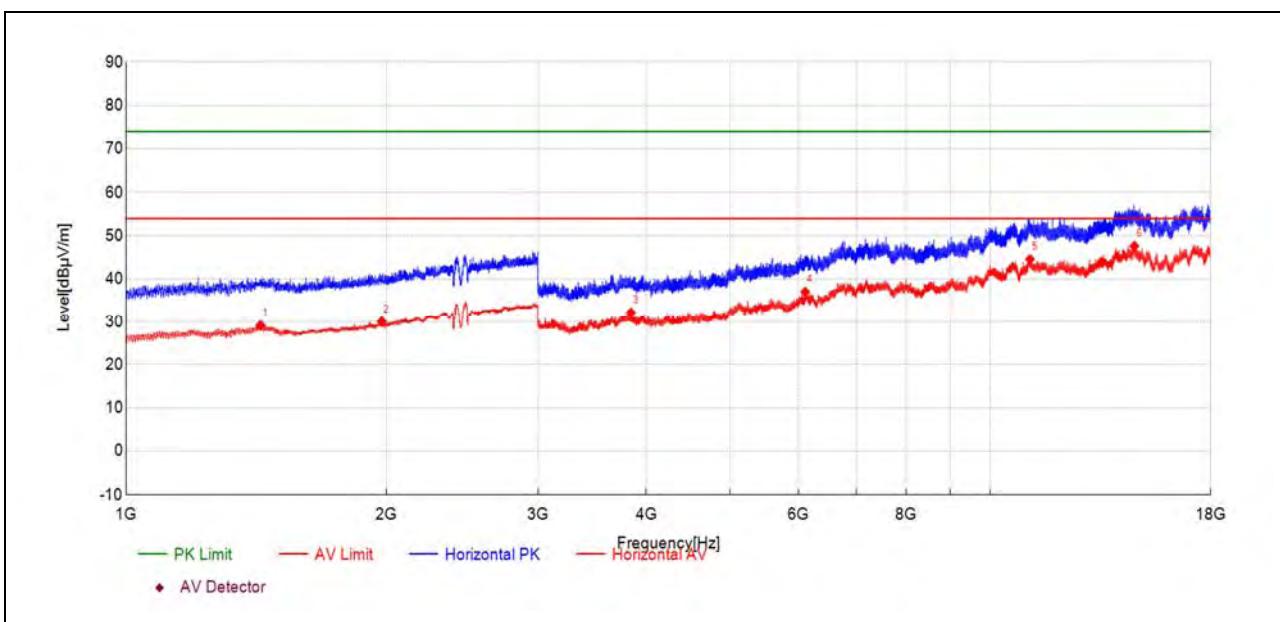
Fre. (MHz)	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Factor [dB/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1430.89	29.0	29.04	0.060	54.00	24.96	150	350	AV	PASS
3866.17	40.2	31.81	-8.360	54.00	22.19	150	270	AV	PASS
5247.92	40.4	37.48	-2.870	54.00	16.52	150	54	AV	PASS
7217.26	35.2	40.07	4.850	54.00	13.93	150	311	AV	PASS
10627.93	31.6	43.77	12.200	54.00	10.23	150	69	AV	PASS
14702.91	27.7	48.30	20.580	54.00	5.70	150	69	AV	PASS

## Plot for Channel 39



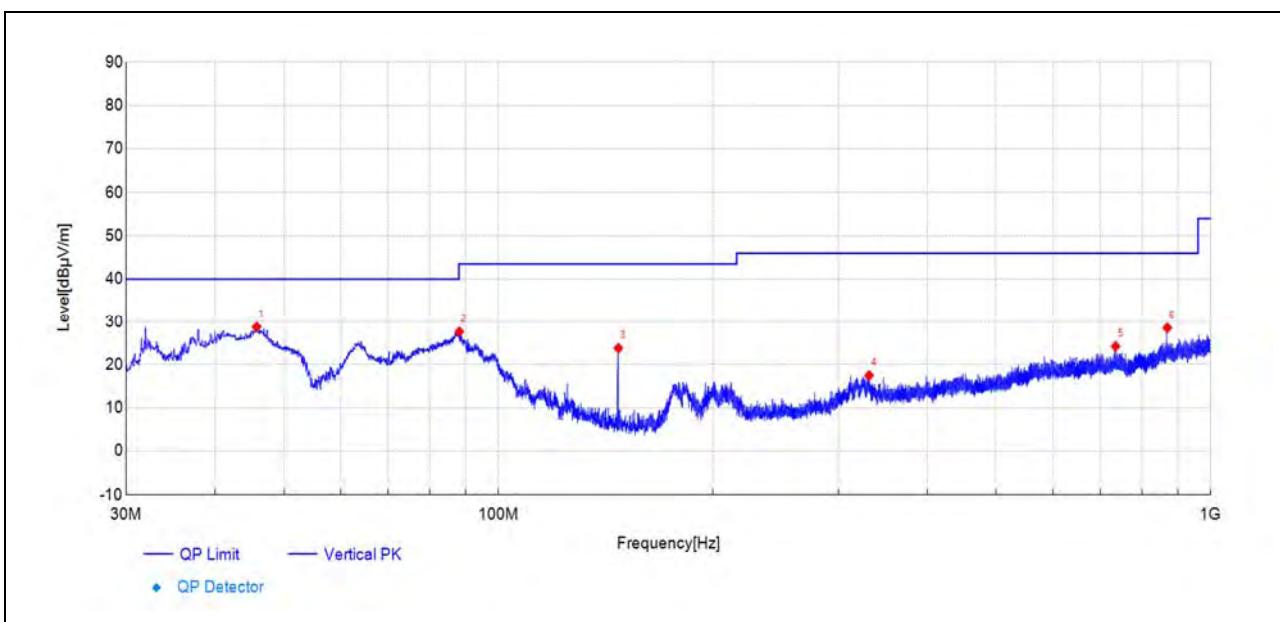
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Factor [dB/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
90.48	61.0	29.55	-31.470	43.50	13.95	150	331	PK	PASS
147.33	57.1	25.30	-31.770	43.50	18.20	150	183	PK	PASS
175.75	49.6	18.67	-30.890	43.50	24.83	150	55	PK	PASS
324.99	46.1	21.43	-24.650	46.00	24.57	150	86	PK	PASS
567.31	40.5	22.15	-18.330	46.00	23.85	150	296	PK	PASS
920.60	38.9	27.37	-11.540	46.00	18.63	150	249	PK	PASS



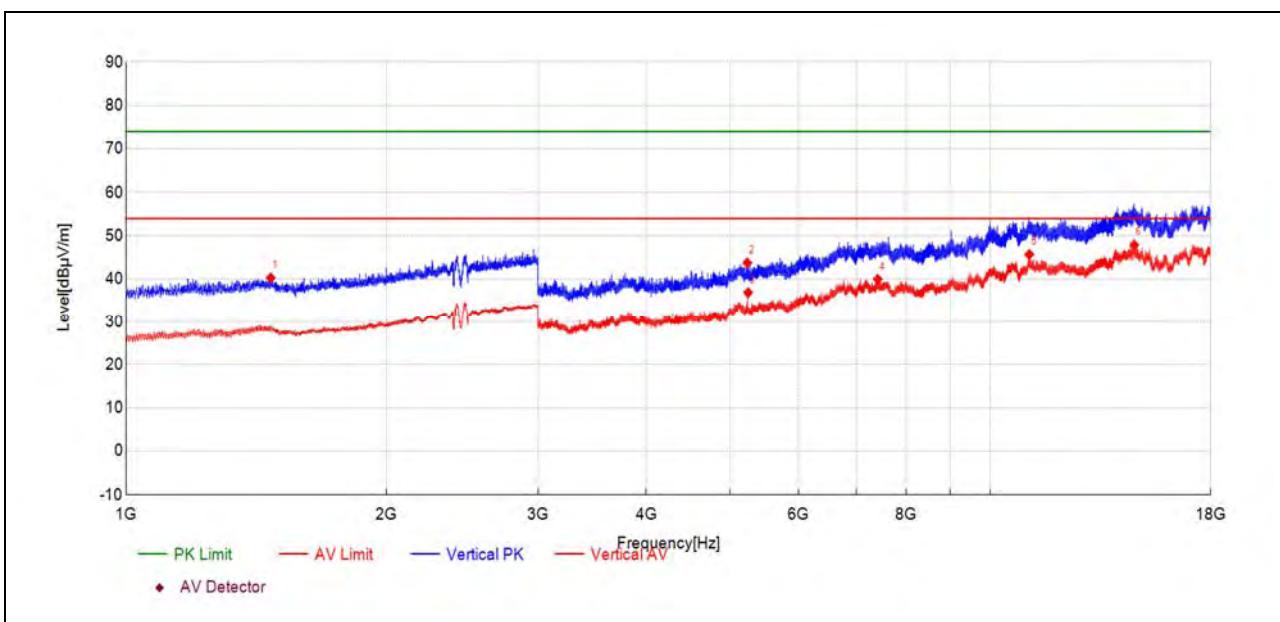
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Factor [dB/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1431.29	29.1	29.15	0.060	54.00	24.85	150	351	AV	PASS
1977.00	27.6	30.01	2.430	54.00	23.99	150	346	AV	PASS
3839.17	40.5	32.15	-8.310	54.00	21.85	150	13	AV	PASS
6108.52	36.1	37.01	0.890	54.00	16.99	150	82	AV	PASS
11120.80	30.6	44.58	13.960	54.00	9.42	150	110	AV	PASS
14687.91	27.1	47.62	20.570	54.00	6.38	150	336	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
45.76	57.1	28.75	-28.380	40.00	11.25	150	351	PK	PASS
88.11	59.6	27.62	-31.970	43.50	15.88	150	22	PK	PASS
147.33	55.6	23.79	-31.770	43.50	19.71	150	269	PK	PASS
331.44	41.8	17.49	-24.350	46.00	28.51	150	120	PK	PASS
735.18	39.1	24.23	-14.870	46.00	21.77	150	130	PK	PASS
869.14	40.9	28.52	-12.420	46.00	17.48	150	330	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

Fre. (MHz)	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Factor [dB/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1470.09	40.3	40.29	-0.050	74.00	33.71	150	224	PK	PASS
5235.49	46.8	43.76	-3.070	74.00	30.24	150	190	PK	PASS
5247.06	39.8	36.86	-2.900	54.00	17.14	150	163	AV	PASS
7411.84	35.3	39.96	4.710	54.00	14.04	150	231	AV	PASS
11099.37	31.6	45.69	14.070	54.00	8.31	150	95	AV	PASS
14679.33	27.4	47.91	20.550	54.00	6.09	150	123	AV	PASS

————— END OF REPORT —————