



REPORT No.: SZ22080394W03

TEST REPORT

APPLICANT : Shenzhen Tinno Mobile Technology Corp.

PRODUCT NAME : onn. 10.4" Tablet Pro

MODEL NAME : TBSPG100097968, TBGGL100097968,
TBMMS100097968, TBBGD100097968,
TBSPG100110603, TBGGL100110603,
TBMMS100110603, TBBGD100110603,
100097968, 100110603

BRAND NAME : onn.

FCC ID : XD6T5100A

STANDARD(S) : 47 CFR Part 15 Subpart C

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REPORT No.: SZ22080394W03

Change History		
Version	Date	Reason for change
1.0	2022-11-14	First edition

1. Summary of Test Result

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	No deviation
2	N/A	Duty Cycle of Test Signal	Sep. 24, 2022	Su Xiaoxian	PASS	No deviation
3	15.247(b)	Maximum Peak Conducted Output Power	Nov. 01, 2022	Su Xiaoxian	PASS	No deviation
4	15.247(b)	Maximum Average Conducted Output Power	Nov. 01, 2022	Su Xiaoxian	PASS	No deviation
5	15.247(a)	Bandwidth	Oct. 11, 2022	Su Xiaoxian	PASS	No deviation
6	15.247(d)	Conducted Spurious Emission and Band Edge	Oct. 11, 2022	Su Xiaoxian	PASS	No deviation
7	15.247(e)	Power Spectral Density	Oct. 11, 2022	Su Xiaoxian	PASS	No deviation
8	15.207	Conducted Emission	Oct. 19, 2022	Fan Zehang	PASS	No deviation
9	15.247(d)	Restricted Frequency Bands	Oct. 27, 2022	Su Zhan	PASS	No deviation
10	15.209, 15.247(d)	Radiated Emission	Nov. 03, 2022	Su Zhan	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in ANSIC63.10-2013 and KDB558074 D01 v05r02.

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

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



1.1. Testing Applied Standards

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

- 47 CFR Part 15 Subpart C Radio Frequency Devices



1.2. Test Equipment List

1.2.1 Conducted Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2022.03.01	2023.02.28
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial Cable	CB02	RF02	Morlab	N/A	N/A
SMA Connector	CN01	RF03	HUBER-SUHNER	N/A	N/A

1.2.2 Conducted Emission Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2022.03.03	2023.03.02
LISN	8127449	NSLK 8127	Schwarzbeck	2022.03.03	2023.03.02
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2022.07.06	2023.07.05
Coaxial Cable(BNC) (30MHz-26GHz)	CB01	EMC01	Morlab	N/A	N/A

1.2.3 List of Software Used

Description	Manufacturer	Software Version
Test System	MaiWei	2.0.0.0
Morlab EMCR V1.2	Morlab	V1.0
TS+ -[JS32-CE]	Tonscend	V2.5.0.0

**1.2.4 Radiated Test Equipments**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY54130016	N9038A	Agilent	2022.07.06	2023.07.05
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2022.05.25	2025.05.24
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2022.02.11	2025.02.10
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2022.07.13	2025.07.12
Test Antenna – Horn	BBHA9170#773	BBHA 9170	Schwarzbeck	2022.07.14	2025.07.13
Coaxial Cable (N male) (9KHz-30MHz)	CB04	EMC04	Morlab	N/A	N/A
Coaxial Cable (N male) (30MHz-26GHz)	CB02	EMC02	Morlab	N/A	N/A
Coaxial Cable (N male) (30MHz-26GHz)	CB03	EMC03	Morlab	N/A	N/A
Coaxial Cable (N male) (30MHz-40GHz)	CB05	EMC05	Morlab	N/A	N/A
1-18GHz pre-Amplifier	61171/61172	S020180L3203	Tonscend	2022.07.08	2023.07.07
18-26.5GHz pre-Amplifier	46732	S10M100L3802	Tonscend	2022.07.08	2023.07.07
26-40GHz pre-Amplifier	56774	S40M400L4002	Tonscend	2022.07.08	2023.07.07
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	2022.07.08	2023.07.07
Anechoic Chamber	N/A	9m*6m*6m	CRT	2020.01.06	2023.01.05



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

Laboratory Name	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
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2. General Description

2.1. Information of Applicant and Manufacturer

Applicant	Shenzhen Tinno Mobile Technology Corp.
Applicant Address	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC
Manufacturer	Shenzhen Tinno Mobile Technology Corp.
Manufacturer Address	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC

2.2. Information of EUT

Product Name:	onn. 10.4" Tablet Pro	
Sample No.:	1#	
Hardware Version:	V0.3	
Software Version:	100110603_20221015	
Equipment Type:	Bluetooth LE	
Modulation Technology:	DSSS, OFDM	
Modulation Type:	Refer to section1.3	
Operating Frequency Range:	802.11b/g/ n (HT20): 2412MHz–2472MHz	
Antenna Type:	PIFA Antenna	
Antenna Gain:	1.5dBi	
Accessory Information:	Battery	
	Brand Name:	N/A
	Model No.:	U309395PV-1S2P
	Serial No.:	N/A
	Capacity:	7300mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.35V
	Manufacturer:	SHENZHEN UTILITY ENERGY CO., LTD.



Accessory Information:	AC Adapter	
	Brand Name:	Onn.
	Model No.:	LACA216
	Serial No.:	N/A
	Rated Output:	5V $\pm$ 2A
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.3A
	Manufacturer:	ASAP Technology(Jiangxi) Co., Ltd
	USB Cable	
	Model No.:	WIABLK100008354
	Manufacturer:	Luxshare-ICT

Note 1: According to the certificate holder, they declared that the models (TBSPG100097968 (32G), TBGGL100097968 (32G), TBMMS100097968 (32G), TBBGD100097968 (32G), TBSPG100110603 (64G), TBGGL100110603 (64G), TBMMS100110603 (64G), TBBGD100110603 (64G), 100097968 (32G), 100110603 (64G)) are identical in circuitry and electrical, mechanical and physical construction; the only differences are the appearance, trade name, model name and memory room for trading purpose. The difference appearance is for color and silk-screen only. The main measuring model is TBSPG100110603, only the results for TBSPG100110603 were recorded in this report.

Note 2: We use the dedicated software to control the EUT continuous transmission.

Note 3: 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

Test Mode	Channel	Frequency (MHz)	Channel	Frequency (MHz)
802.11b/g/n (HT20)	1	2412	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	11	2462
	5	2432	12	2467
	6	2437	13	2472
	7	2442		

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

2.4. Test Configuration of EUT

2.4.1. Modulation Type and Data Rate of EUT

Modulation technology	Modulation Type	Data Rate (Mbps) Note1
DSSS (802.11b)	DBPSK	1
	DQPSK	2
	CCK	5.5/ 11
OFDM (802.11g)	BPSK	6 / 9
	QPSK	12 / 18
	16QAM	24 / 36
	64QAM	48 / 54
OFDM (802.11n (HT20))	BPSK	6.5
	QPSK	13/19.5
	16QAM	26/39
	64QAM	52/58.5/65

Note1: The worst-case mode (bold face) in all data rates has been determined during the pre-scan, only the test data of the worst-case were recorded in this report.

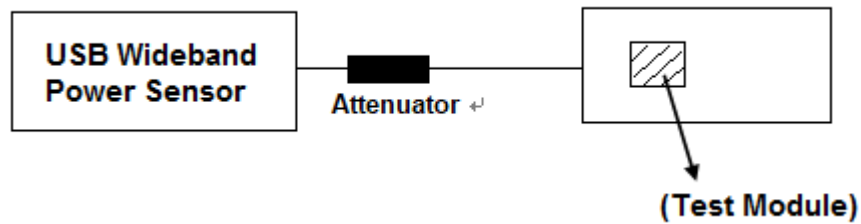
2.5. Test Conditions

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

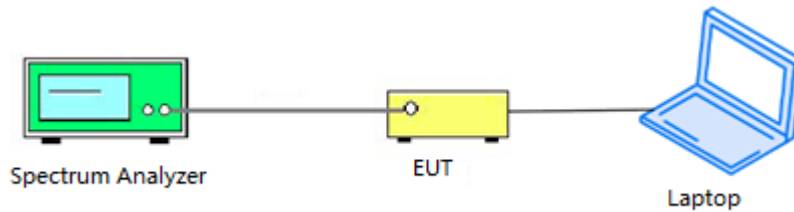
2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement

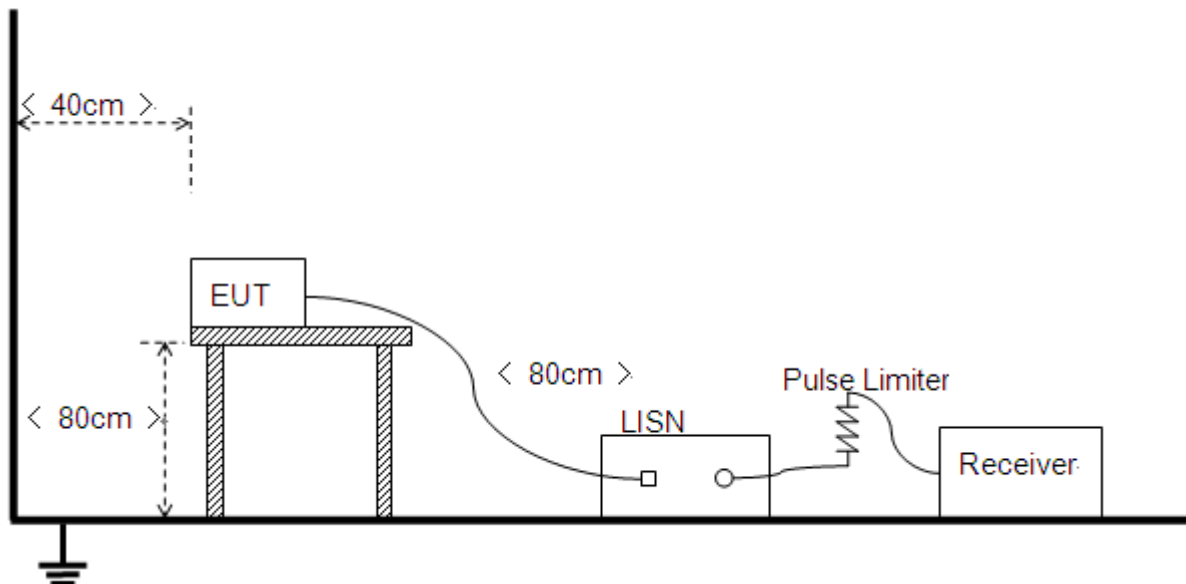
Power item



Other items

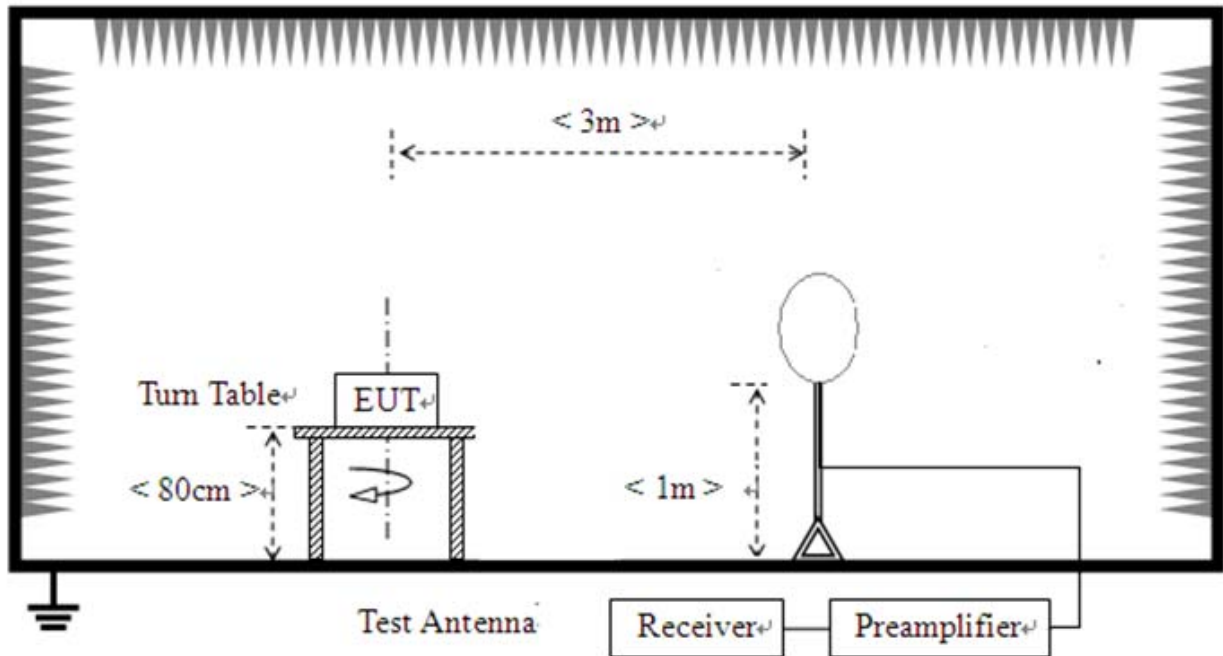


2.6.2. Conducted Emission Measurement

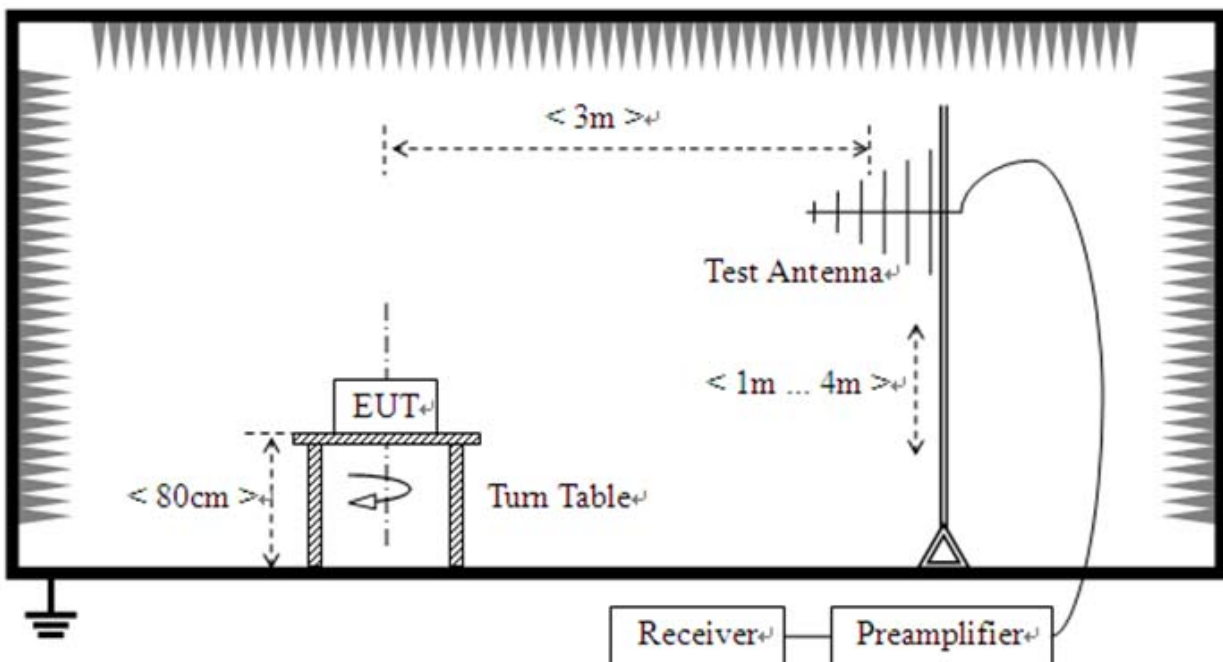


2.6.3.Radiation Measurement

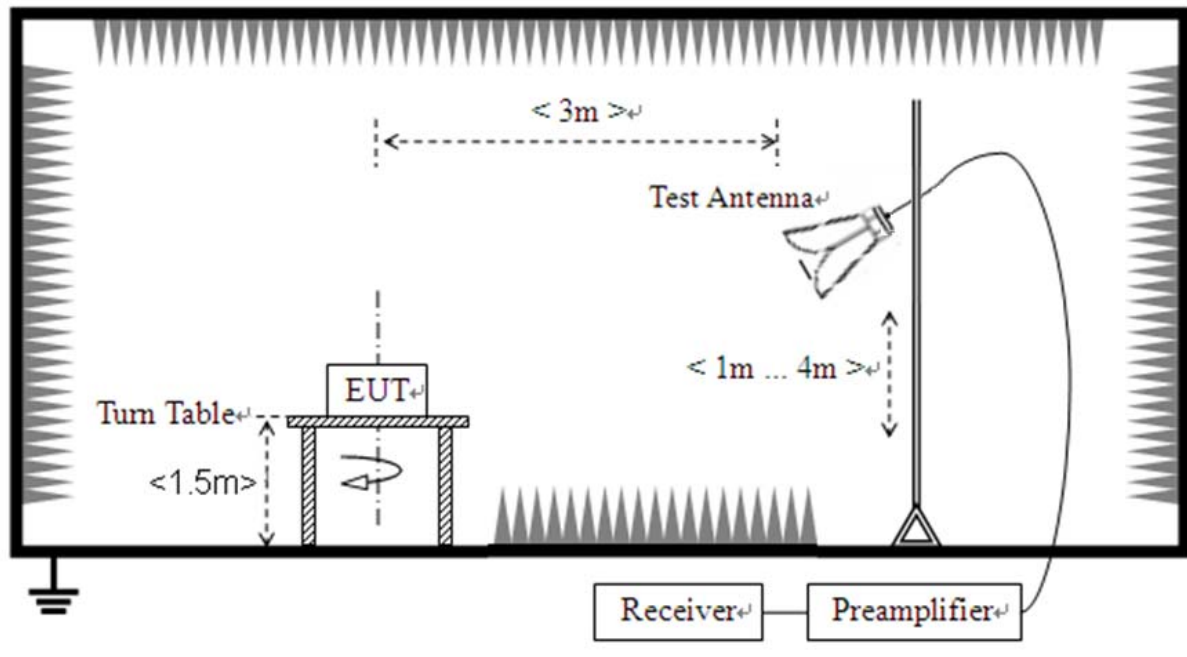
1) For radiated emissions from 9kHz to 30MHz



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

Inside of the EUT has a PIFA antenna coupled with the metal shrapnel. Please refer to the EUT photos.

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 and Average 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 conducted output power of the intentional radiator shall not exceed 1 Watt.

3.3.2. Test Procedures

The EUT (Equipment under the test) which is coupled to the USB Wideband Power Sensor; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

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 and A.3 in this report.



3.4.6 dB Bandwidth

3.4.1.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.

3.4.1.Test Procedures

KDB 558074 Section 8.2 was used in order to prove compliance.

3.4.2.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.4.3.Test Result

Refer to Annex A.4 in this report.



3.5. Conducted Spurious Emissions and Band Edge

3.5.1. 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.

3.5.2. Test Procedures

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

3.5.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.5.4. Test Result

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

3.6. Power Spectral Density

3.6.1. 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.

3.6.2. 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 30kHz
- d) Set VBW to 100kHz
- 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 and recorded as PD
- j) Use below formula to calculate the Conducted PSD value that at specified RBW:

Conducted PSD = PD - 10lg(30k/3k)

3.6.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.6.4. Test Result

Refer to Annex A.7 in this report.

3.7. Conducted Emission

3.7.1. 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 μ H/50 Ω line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dB μ 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.

3.7.2. 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.

3.7.3. Test Setup Layout

Refer to chapter 2.6.2 in this report.

3.7.4. Test Result

Refer to Annex A.8 in this report.

3.8. Restricted Frequency Bands

3.8.1. 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).

3.8.2. 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

3.8.3. Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.8.4. Test Result

Refer to Annex A.9 in this report.

3.9. Radiated Emission

3.9.1. 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).



3.9.2. Test Procedures

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

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

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

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

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

3.9.3. Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.9.4. Test Result

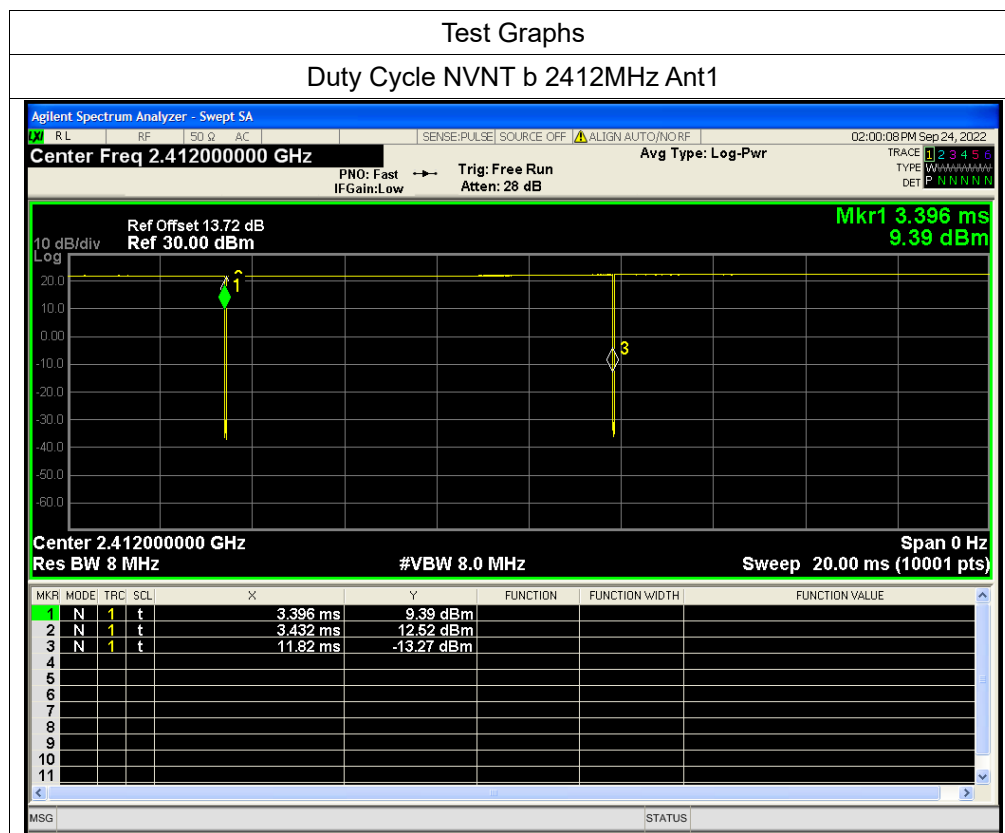
Refer to Annex A.10 in this report.



Annex A Test Data and Result

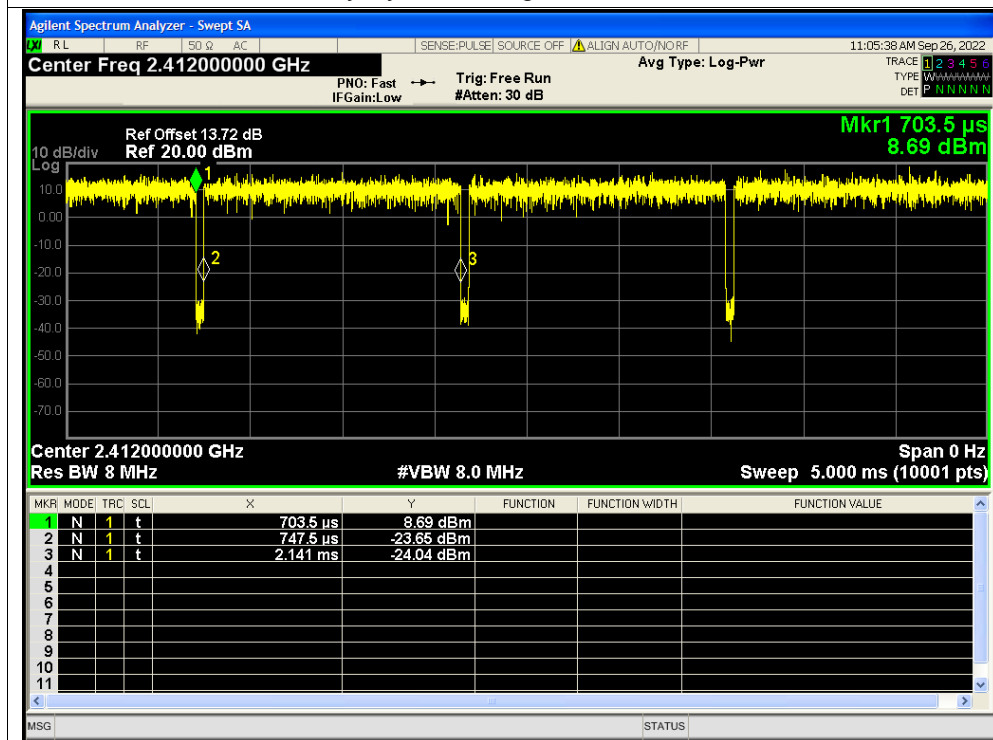
A.1. Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.57	0.02	0.12
NVNT	g	2412	Ant1	96.94	0.13	0.72
NVNT	n20	2412	Ant1	96.8	0.14	0.77

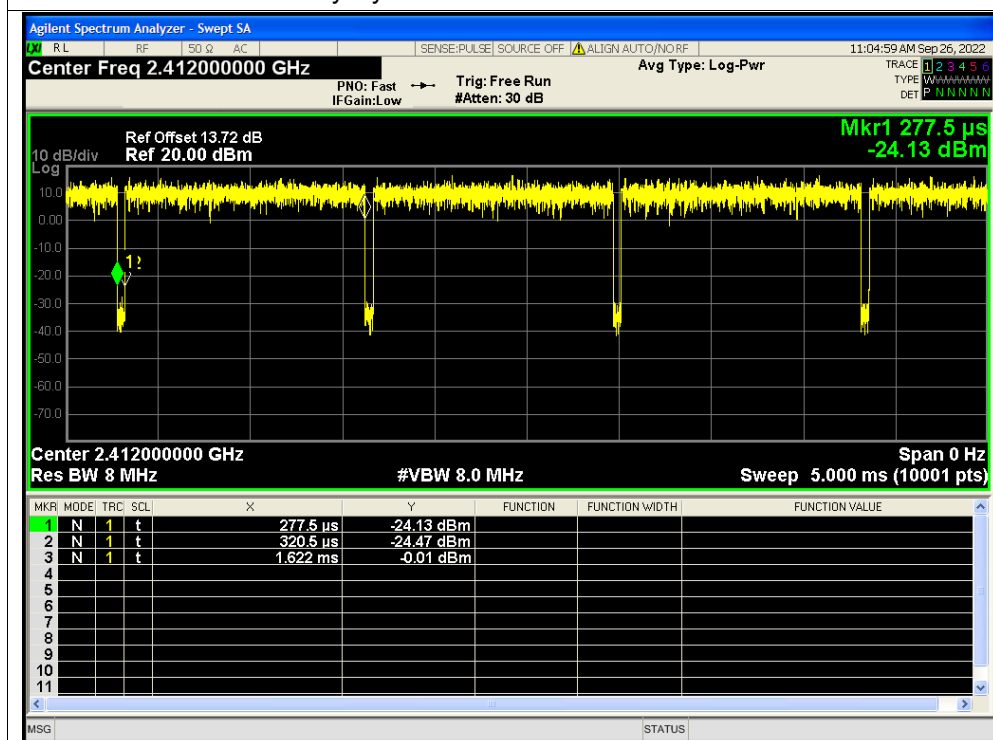




Duty Cycle NVNT g 2412MHz Ant1



Duty Cycle NVNT n20 2412MHz Ant1



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

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	19.51	0	19.51	30	Pass
NVNT	b	2442	Ant1	19.89	0	19.89	30	Pass
NVNT	b	2472	Ant1	18.94	0	18.94	30	Pass
NVNT	g	2412	Ant1	22.57	0	22.57	30	Pass
NVNT	g	2442	Ant1	24.92	0	24.92	30	Pass
NVNT	g	2472	Ant1	20.60	0	20.60	30	Pass
NVNT	n20	2412	Ant1	22.57	0	22.57	30	Pass
NVNT	n20	2442	Ant1	24.86	0	24.86	30	Pass
NVNT	n20	2472	Ant1	21.30	0	21.30	30	Pass

A.3. Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	17.11	0.02	17.13	30	Pass
NVNT	b	2442	Ant1	17.33	0.02	17.35	30	Pass
NVNT	b	2472	Ant1	16.41	0.02	16.43	30	Pass
NVNT	g	2412	Ant1	13.89	0.13	14.02	30	Pass
NVNT	g	2442	Ant1	17.10	0.13	17.23	30	Pass
NVNT	g	2472	Ant1	11.44	0.13	11.57	30	Pass
NVNT	n20	2412	Ant1	13.57	0.14	13.71	30	Pass
NVNT	n20	2442	Ant1	17.03	0.14	17.17	30	Pass
NVNT	n20	2472	Ant1	10.74	0.14	10.88	30	Pass



REPORT No.: SZ22080394W03

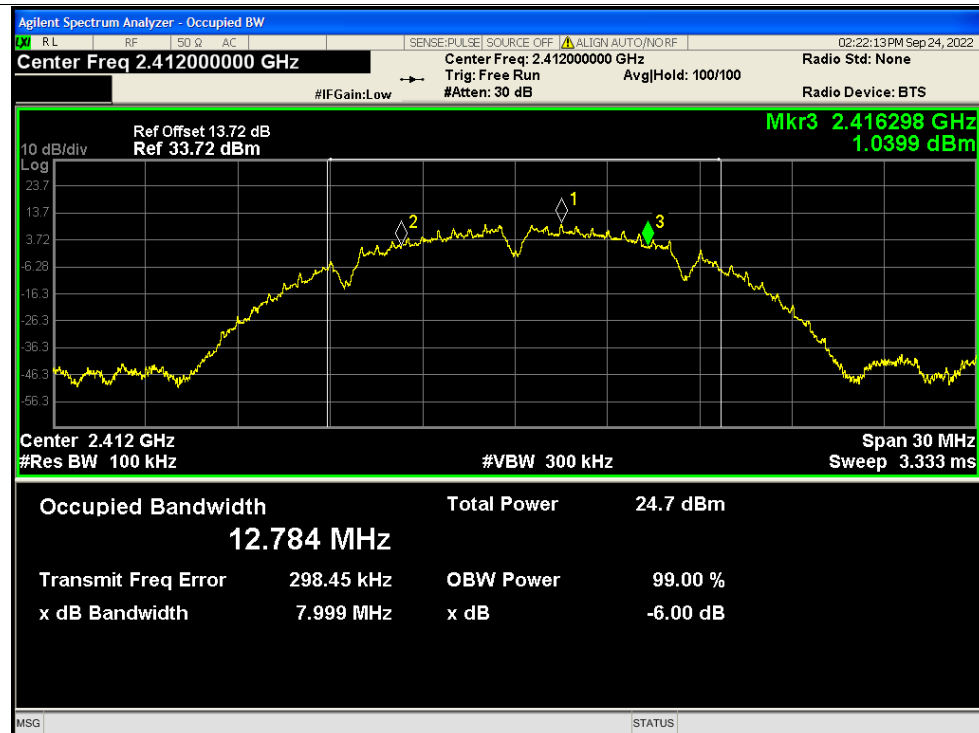
A.4. 6 dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.999	0.5	Pass
NVNT	b	2442	Ant1	7.547	0.5	Pass
NVNT	b	2472	Ant1	8.07	0.5	Pass
NVNT	g	2412	Ant1	15.675	0.5	Pass
NVNT	g	2442	Ant1	15.666	0.5	Pass
NVNT	g	2472	Ant1	15.698	0.5	Pass
NVNT	n20	2412	Ant1	16.306	0.5	Pass
NVNT	n20	2442	Ant1	17.277	0.5	Pass
NVNT	n20	2472	Ant1	16.286	0.5	Pass

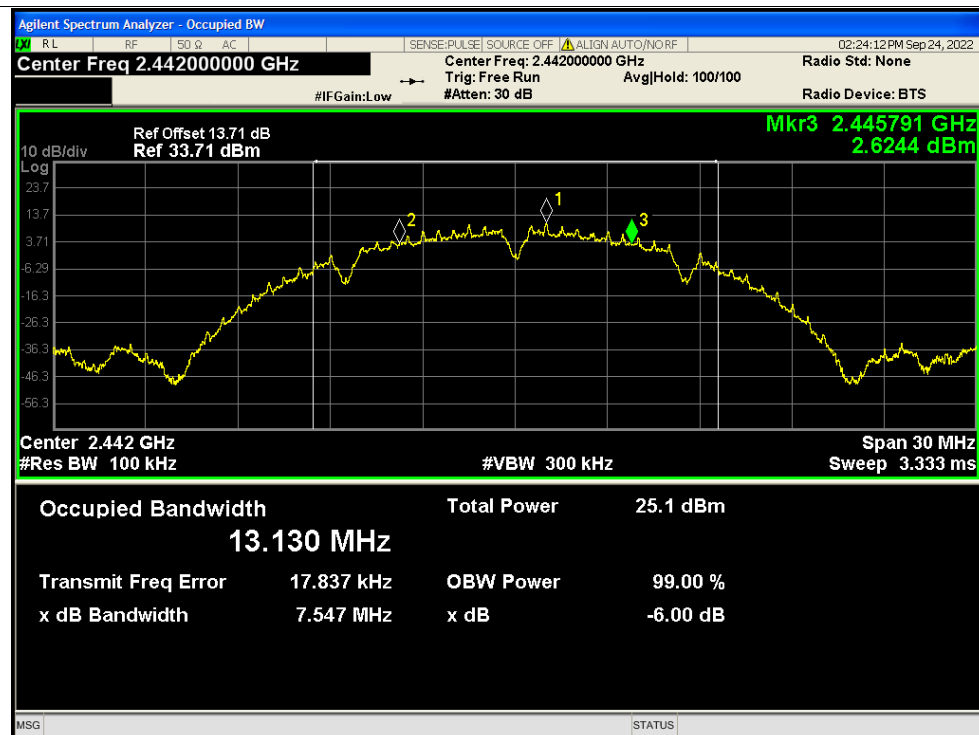


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

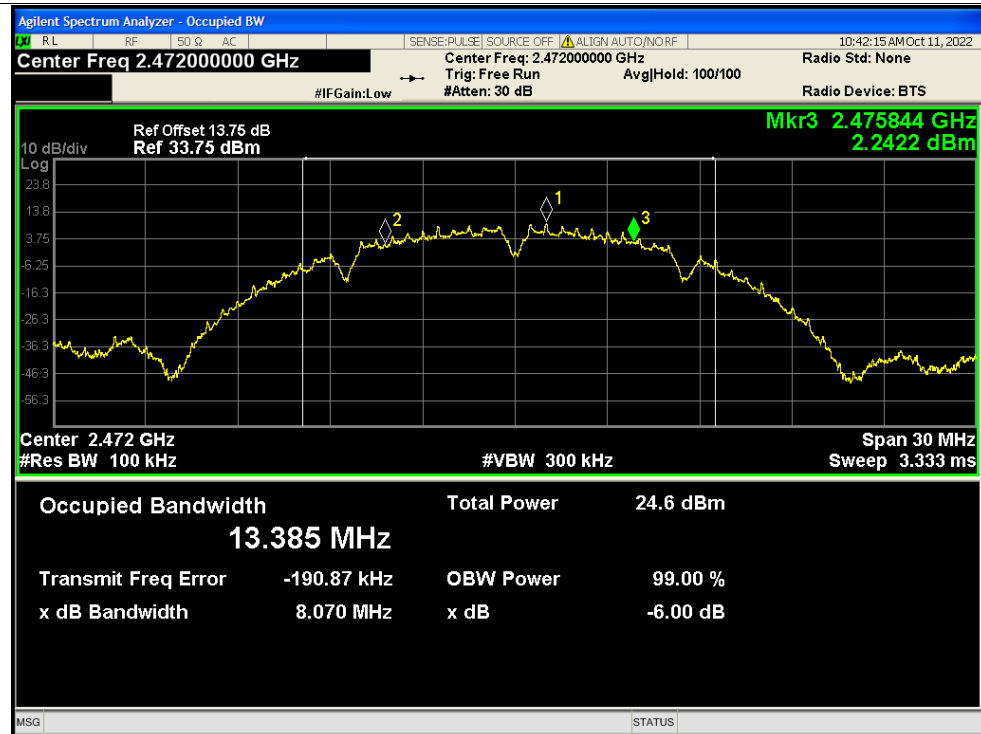


-6dB Bandwidth NVNT b 2442MHz Ant1

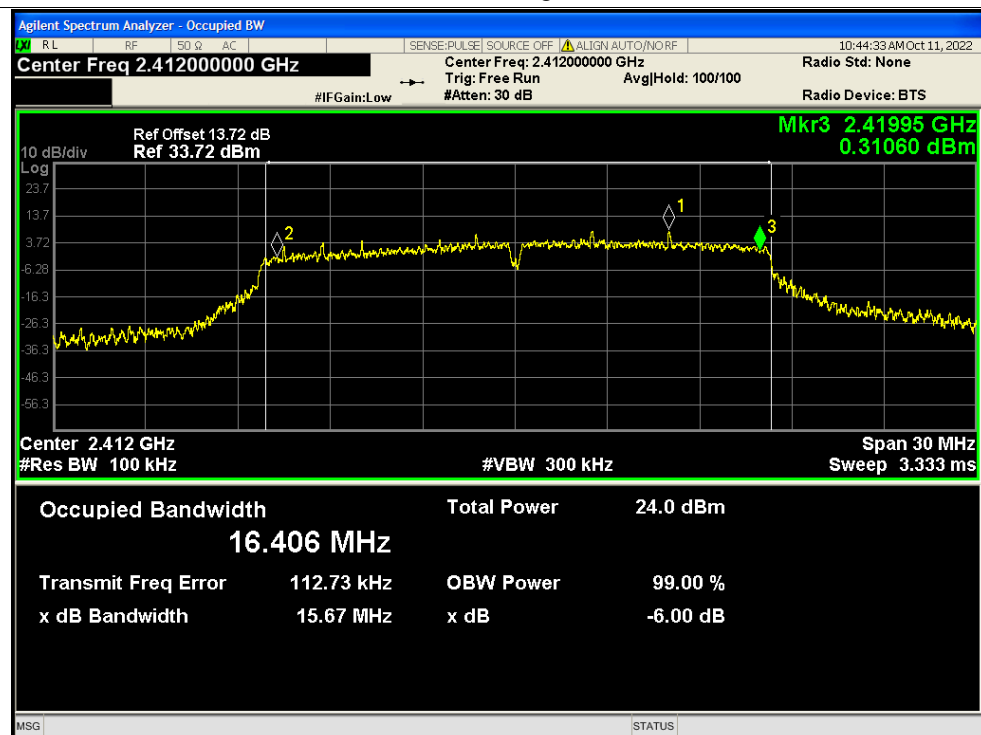


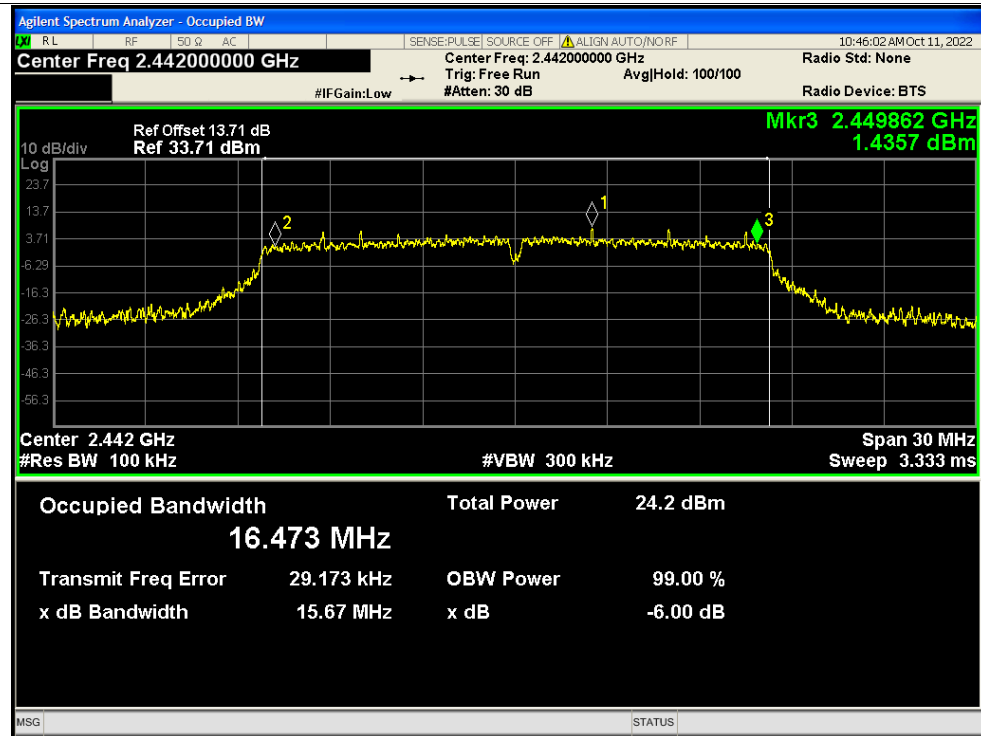
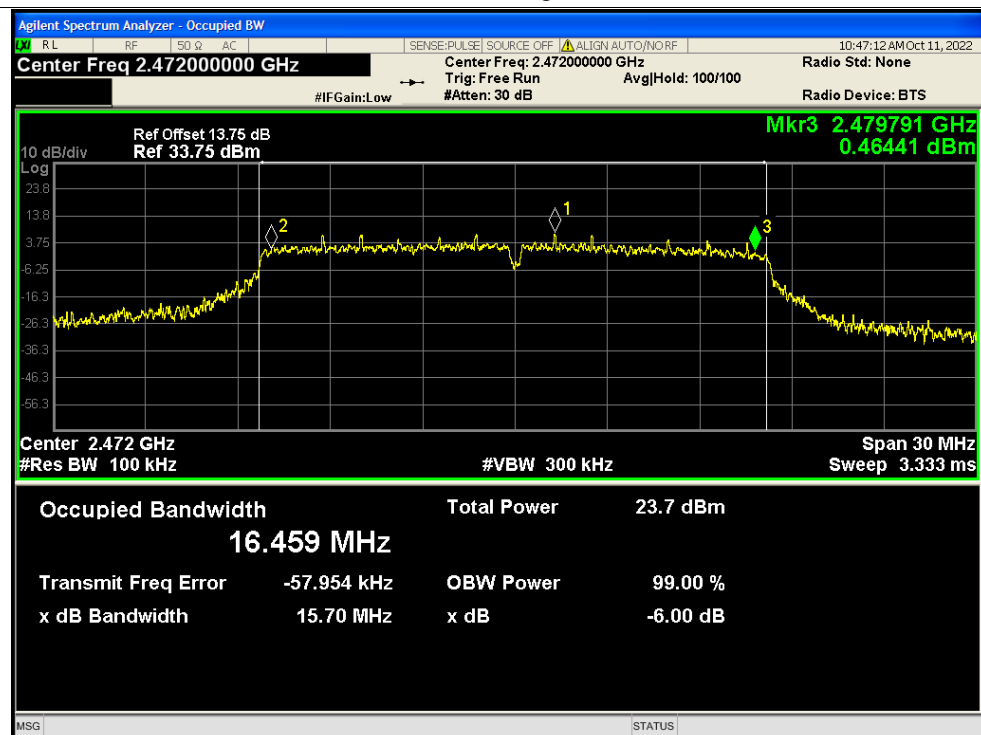


-6dB Bandwidth NVNT b 2472MHz Ant1



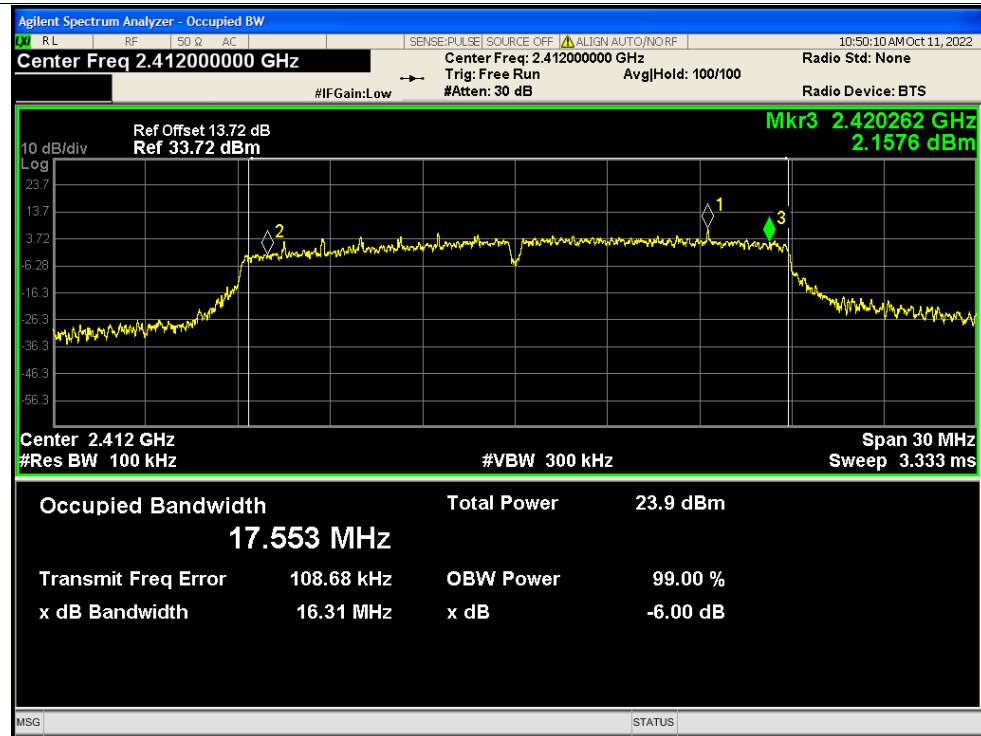
-6dB Bandwidth NVNT g 2412MHz Ant1



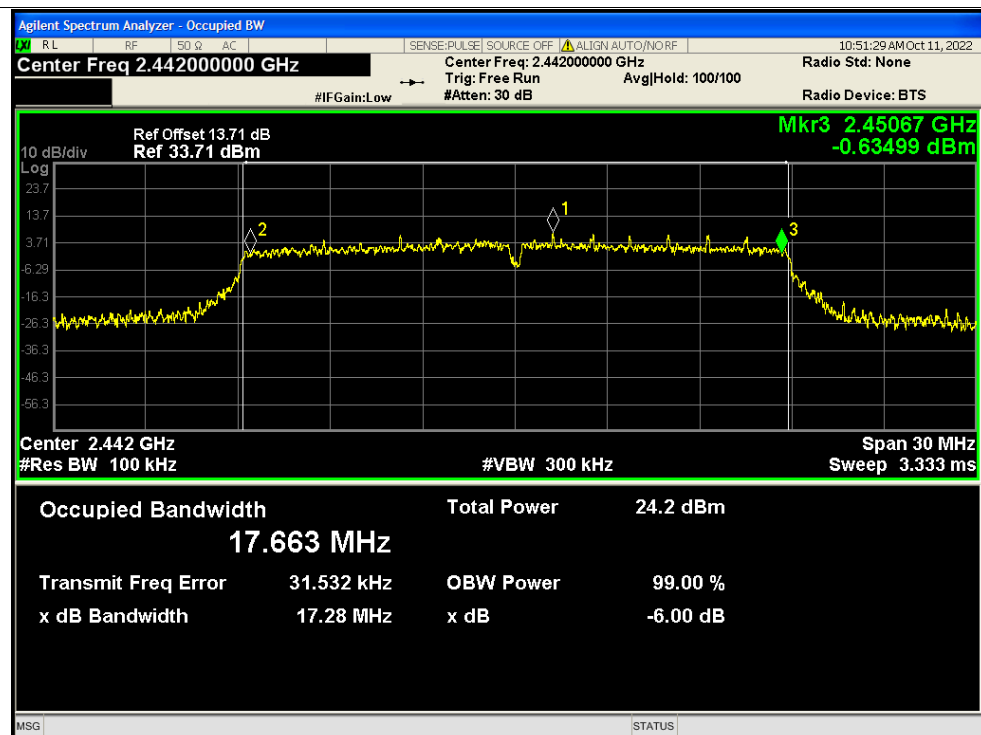
**-6dB Bandwidth NVNT g 2442MHz Ant1****-6dB Bandwidth NVNT g 2472MHz Ant1**

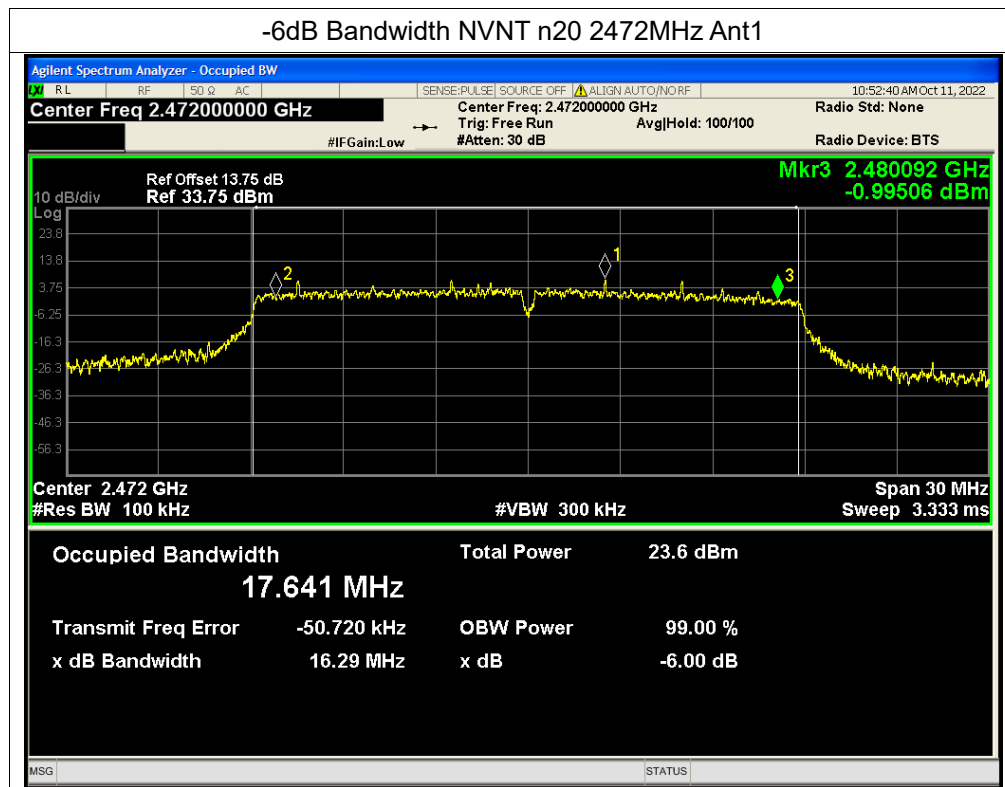


-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2442MHz Ant1





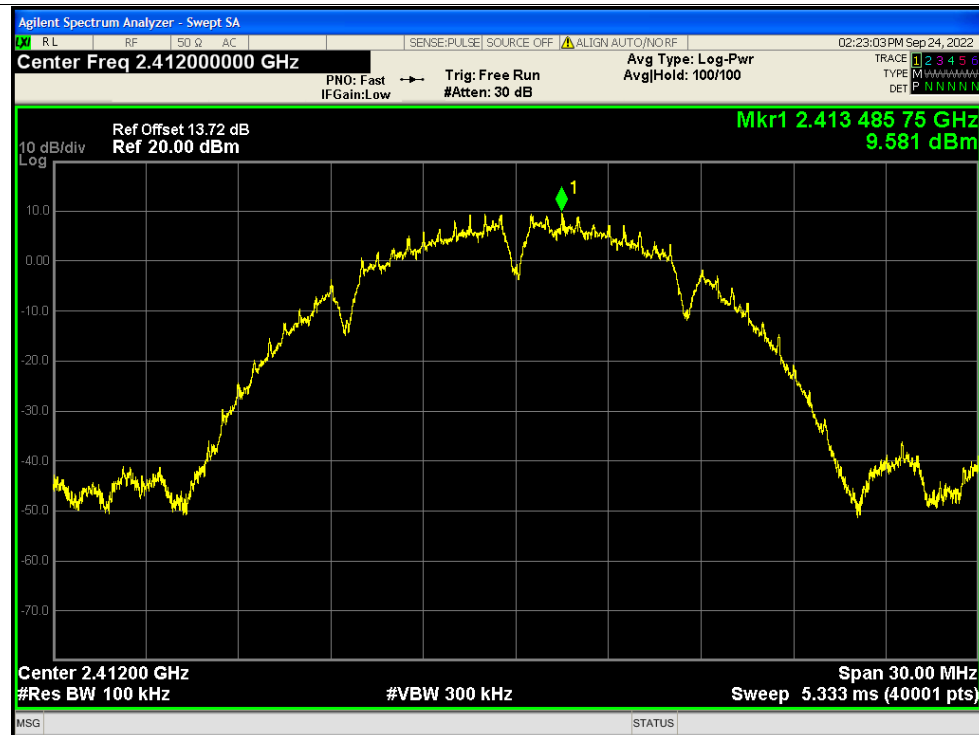
**A.5. Conducted Spurious Emissions**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-37.32	-20	Pass
NVNT	b	2442	Ant1	-37.84	-20	Pass
NVNT	b	2472	Ant1	-37.57	-20	Pass
NVNT	g	2412	Ant1	-35.78	-20	Pass
NVNT	g	2442	Ant1	-36	-20	Pass
NVNT	g	2472	Ant1	-34.96	-20	Pass
NVNT	n20	2412	Ant1	-36.43	-20	Pass
NVNT	n20	2442	Ant1	-35.78	-20	Pass
NVNT	n20	2472	Ant1	-35.16	-20	Pass

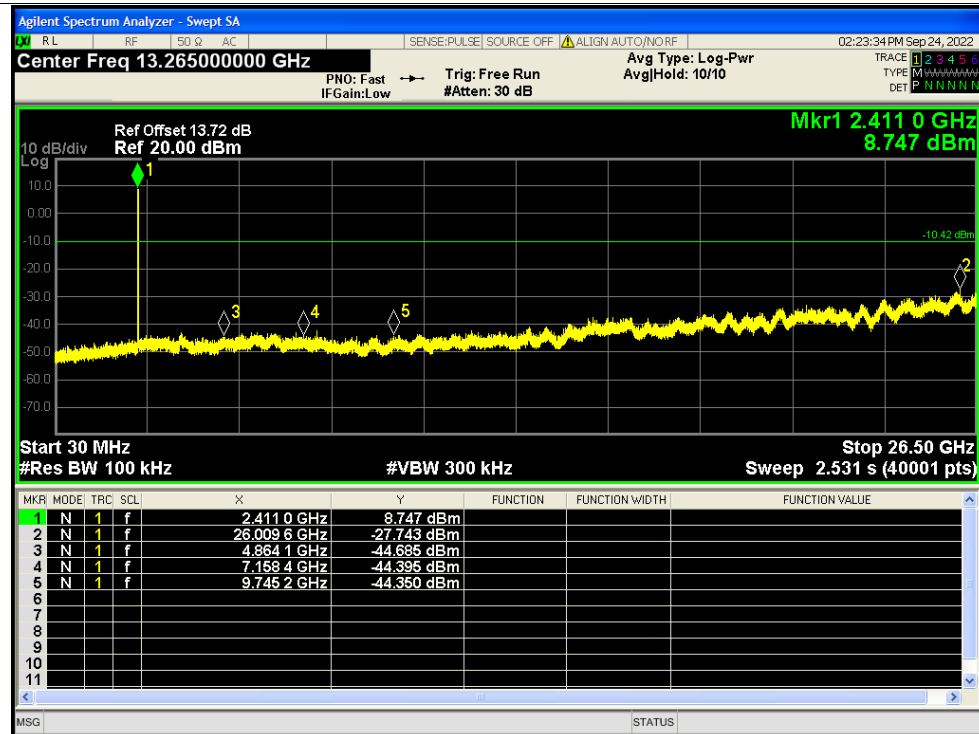


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref

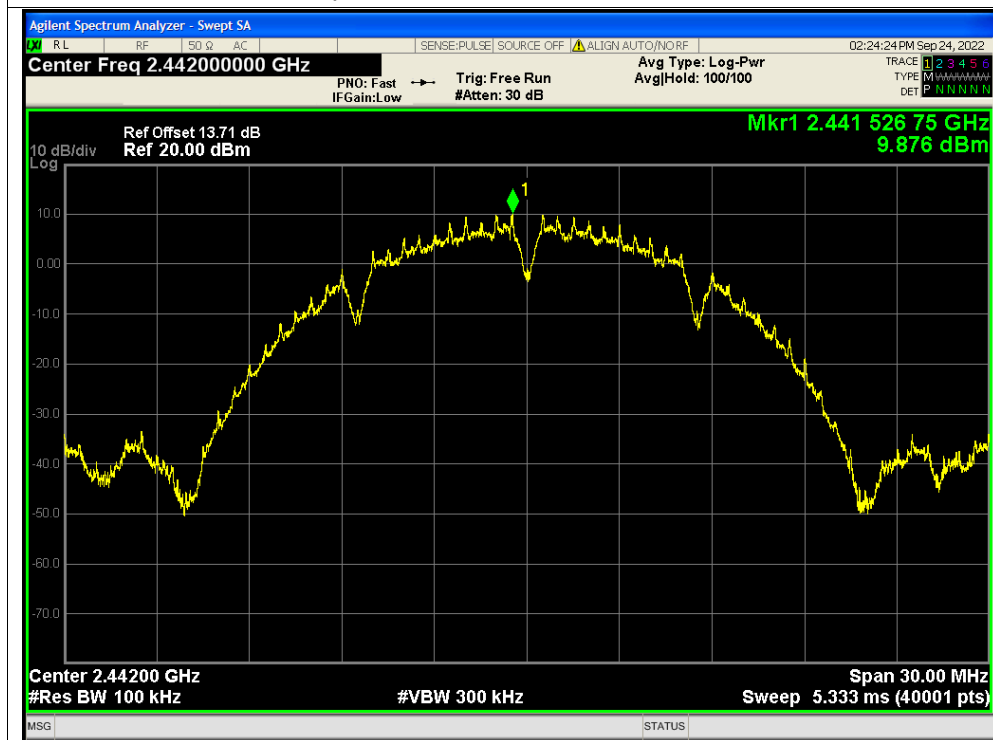


Tx. Spurious NVNT b 2412MHz Ant1 Emission

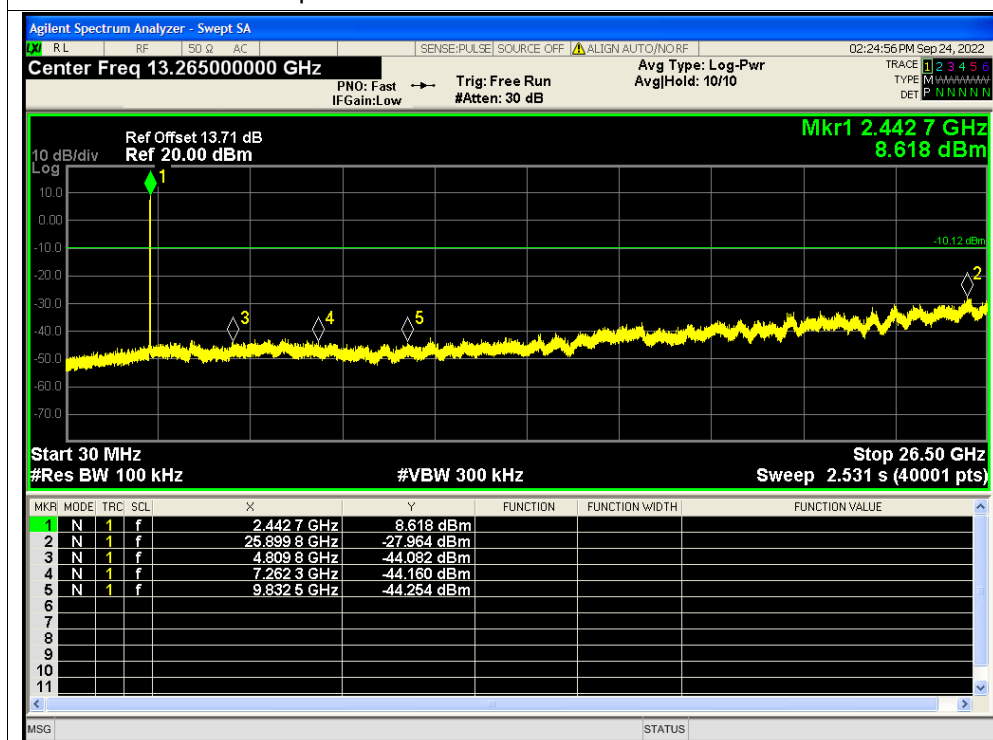




Tx. Spurious NVNT b 2442MHz Ant1 Ref

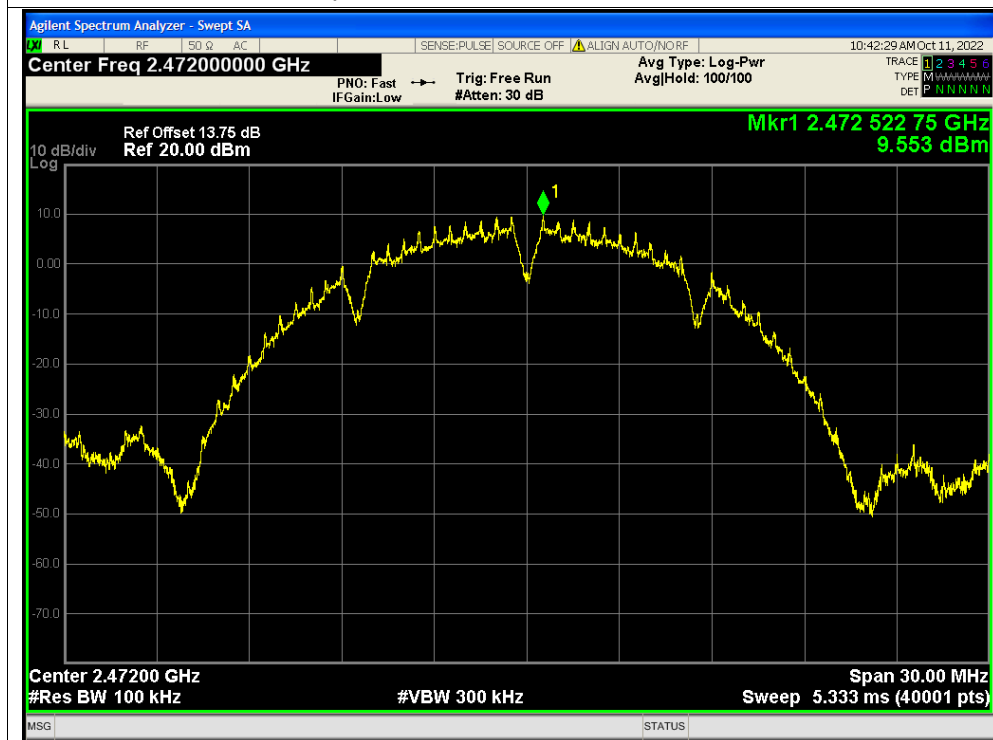


Tx. Spurious NVNT b 2442MHz Ant1 Emission

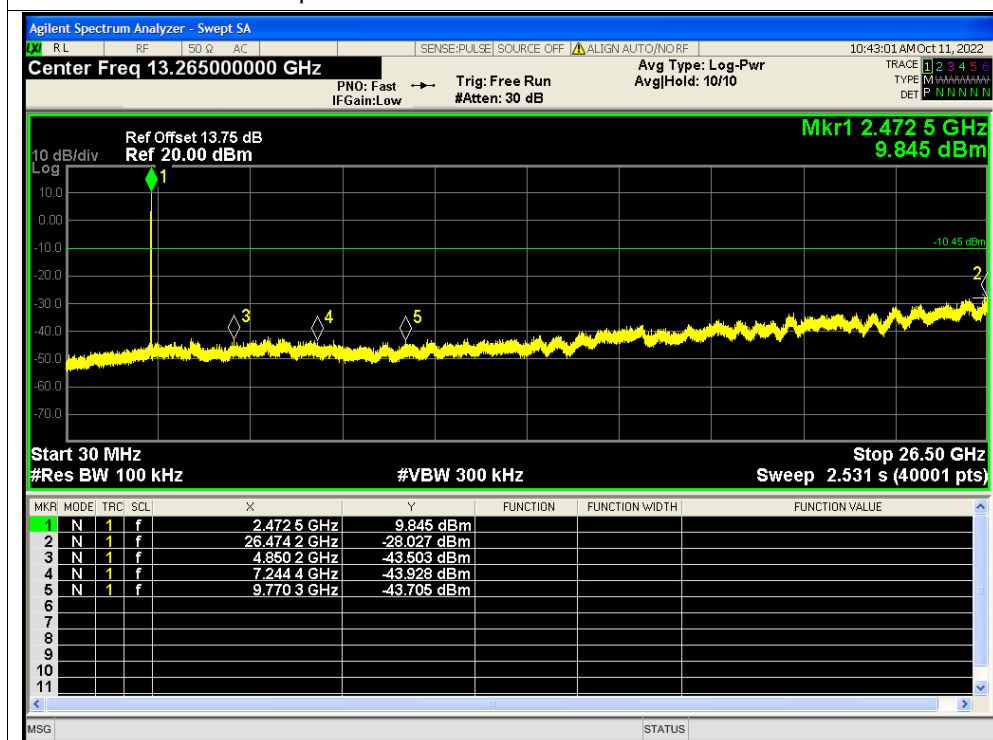




Tx. Spurious NVNT b 2472MHz Ant1 Ref

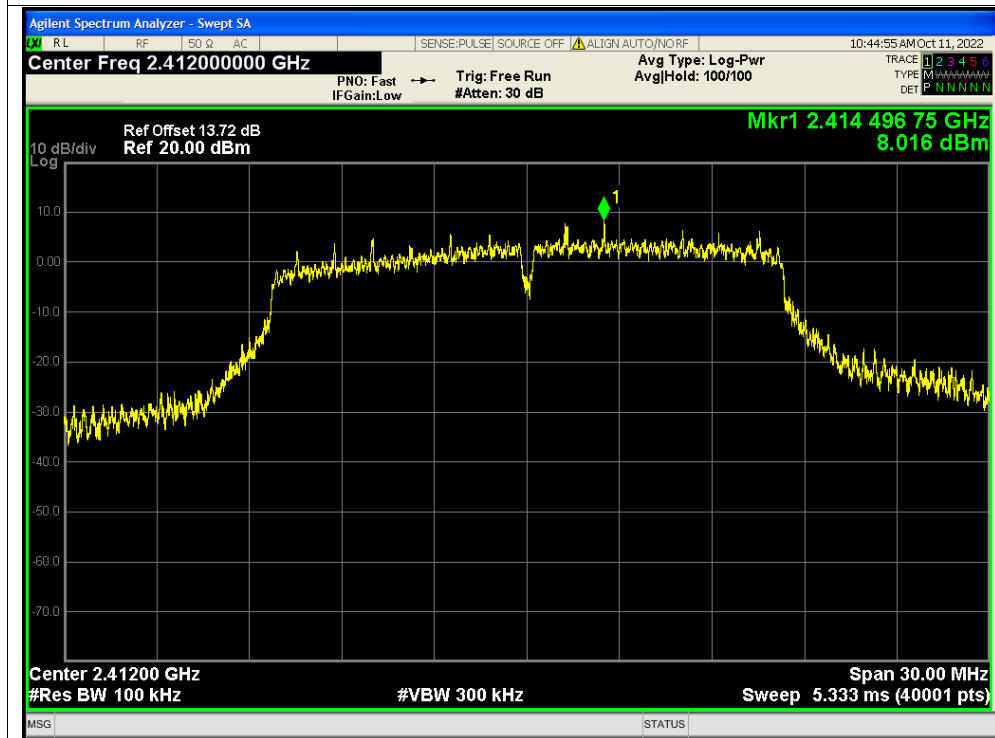


Tx. Spurious NVNT b 2472MHz Ant1 Emission

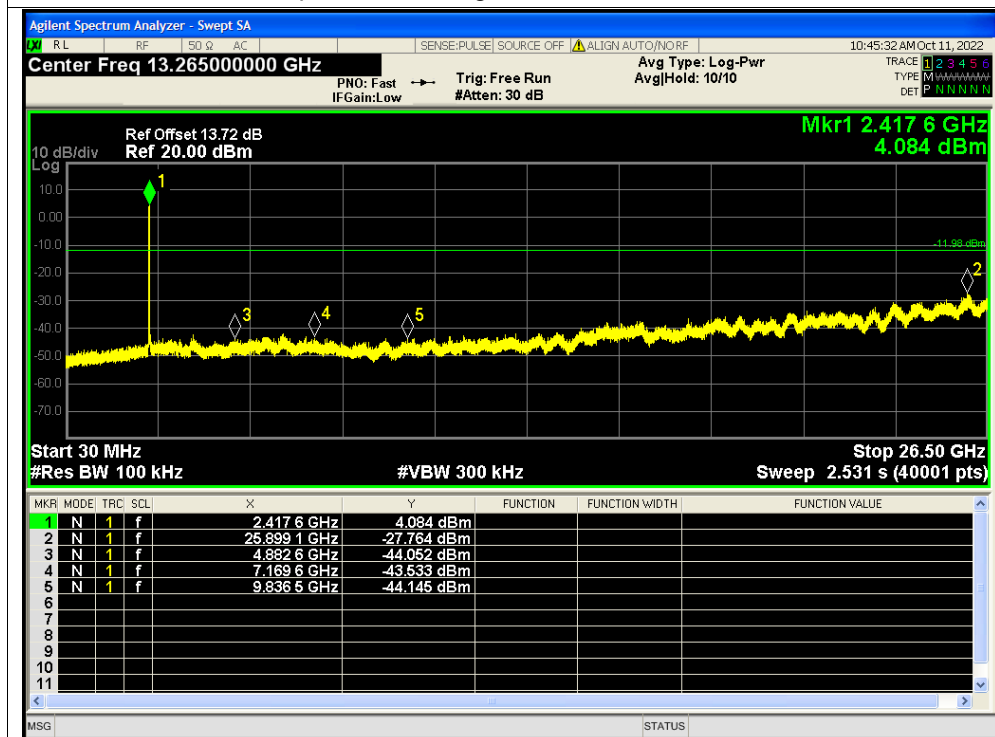




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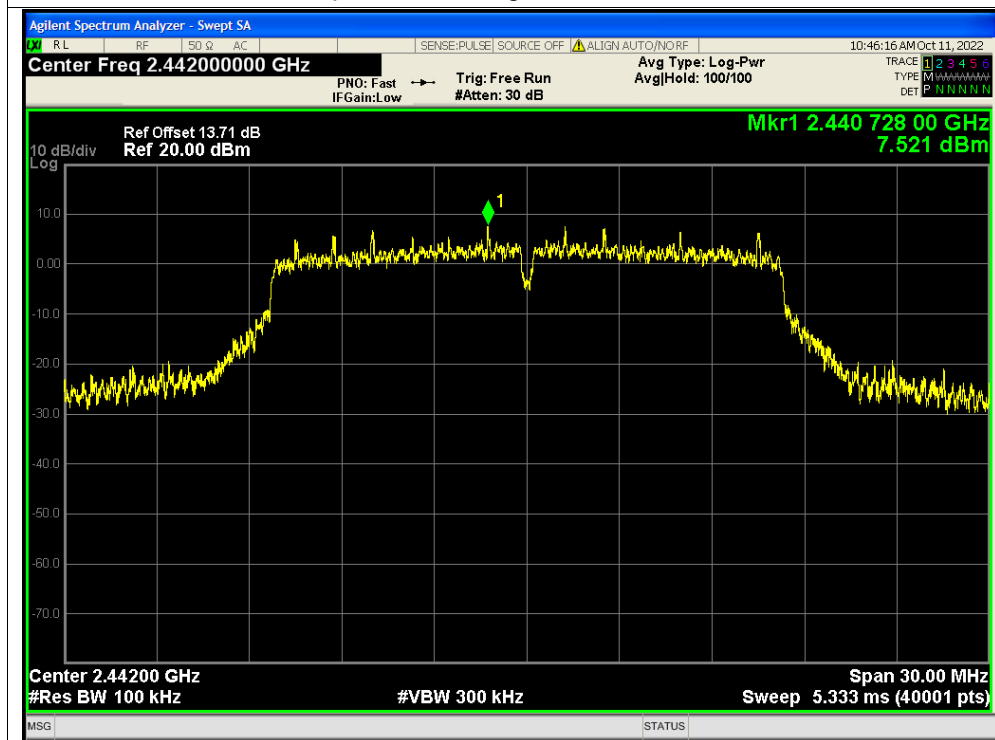


Tx. Spurious NVNT g 2412MHz Ant1 Emission

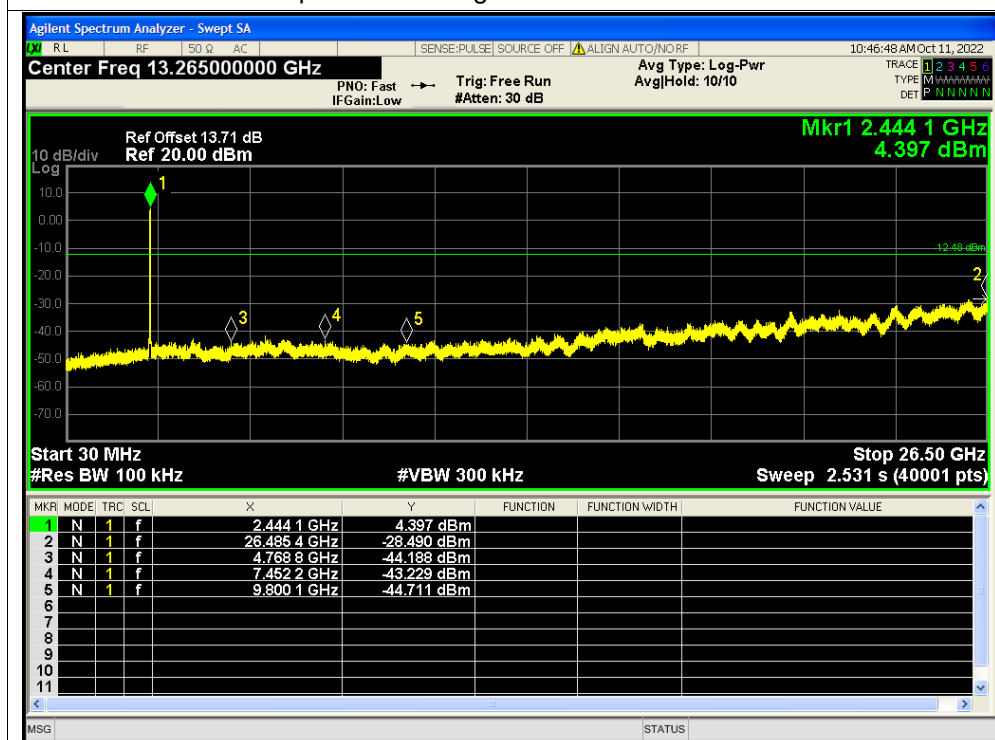




Tx. Spurious NVNT g 2442MHz Ant1 Ref

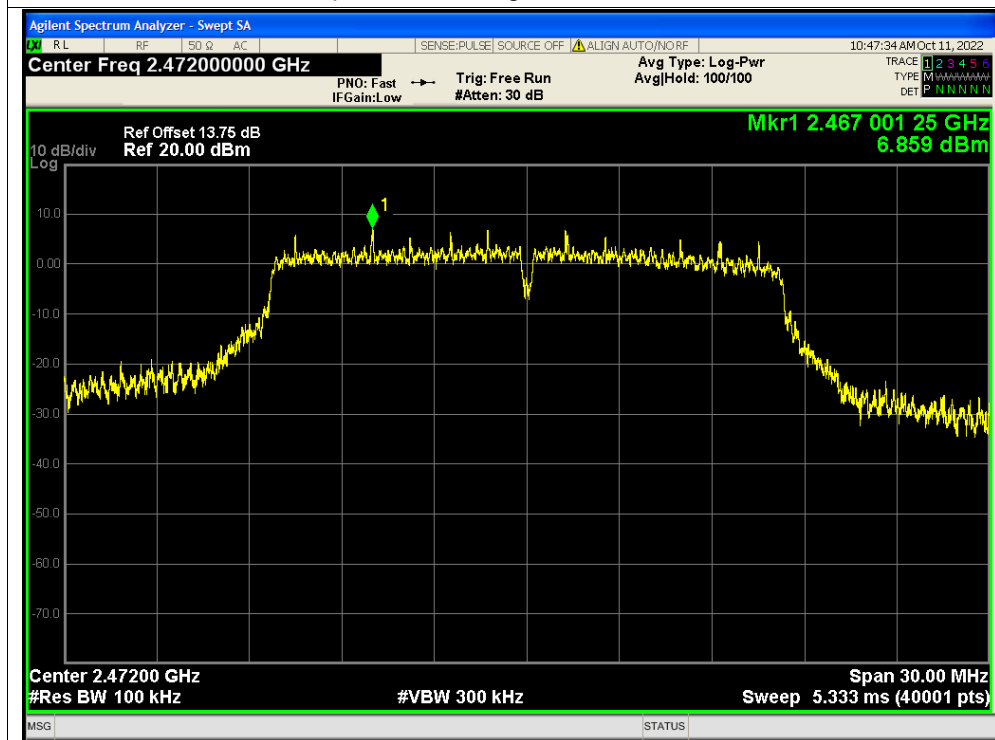


Tx. Spurious NVNT g 2442MHz Ant1 Emission

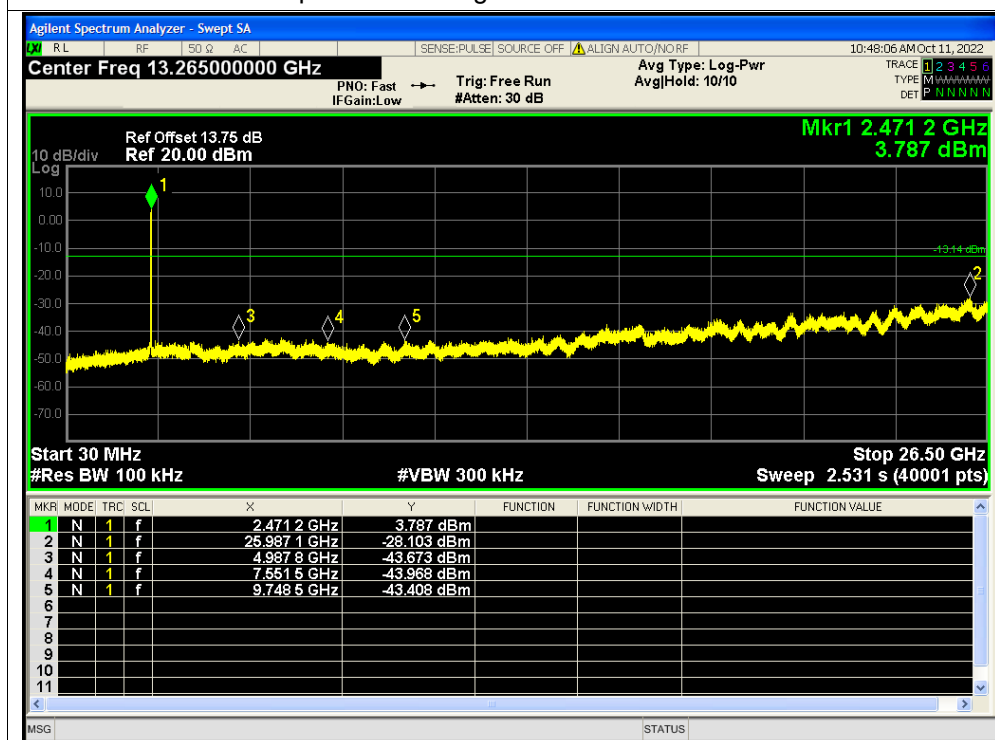




Tx. Spurious NVNT g 2472MHz Ant1 Ref

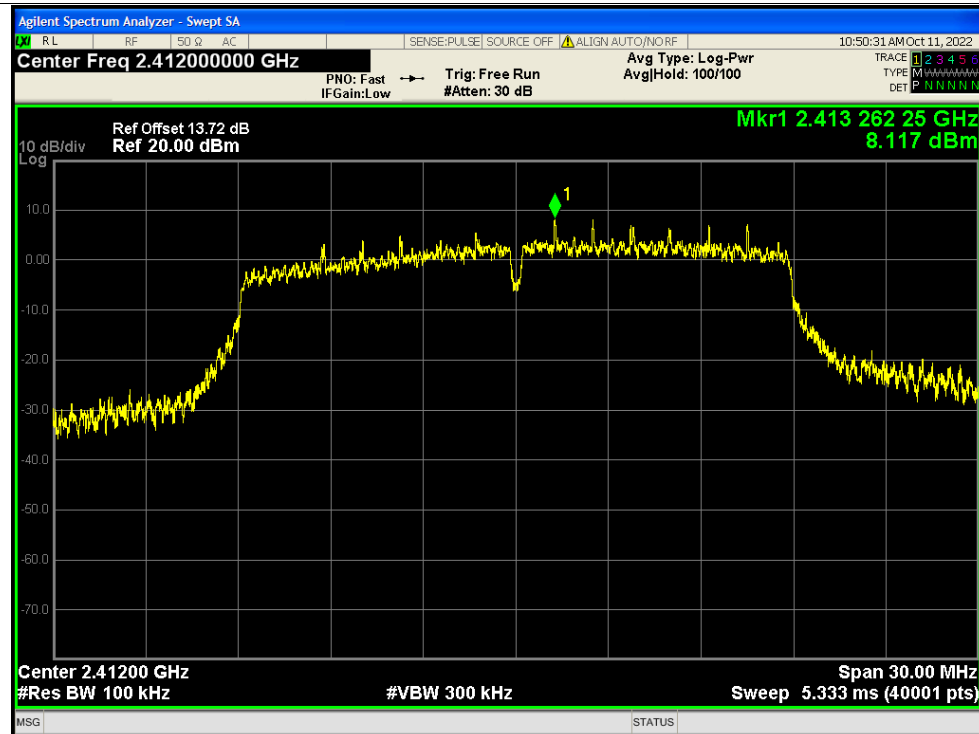


Tx. Spurious NVNT g 2472MHz Ant1 Emission

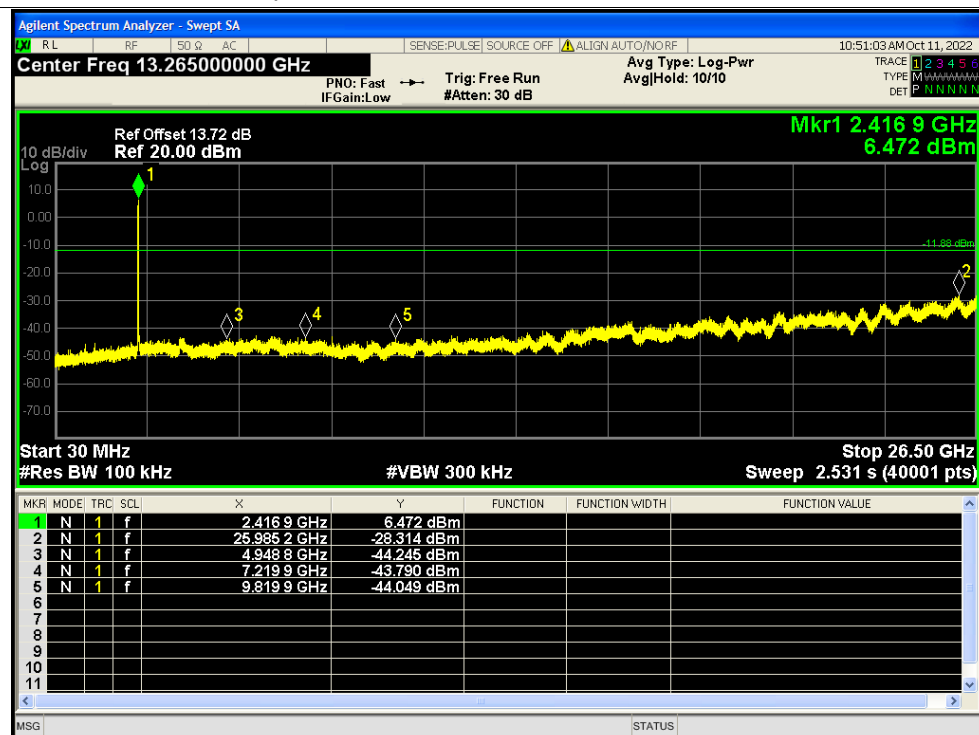




Tx. Spurious NVNT n20 2412MHz Ant1 Ref

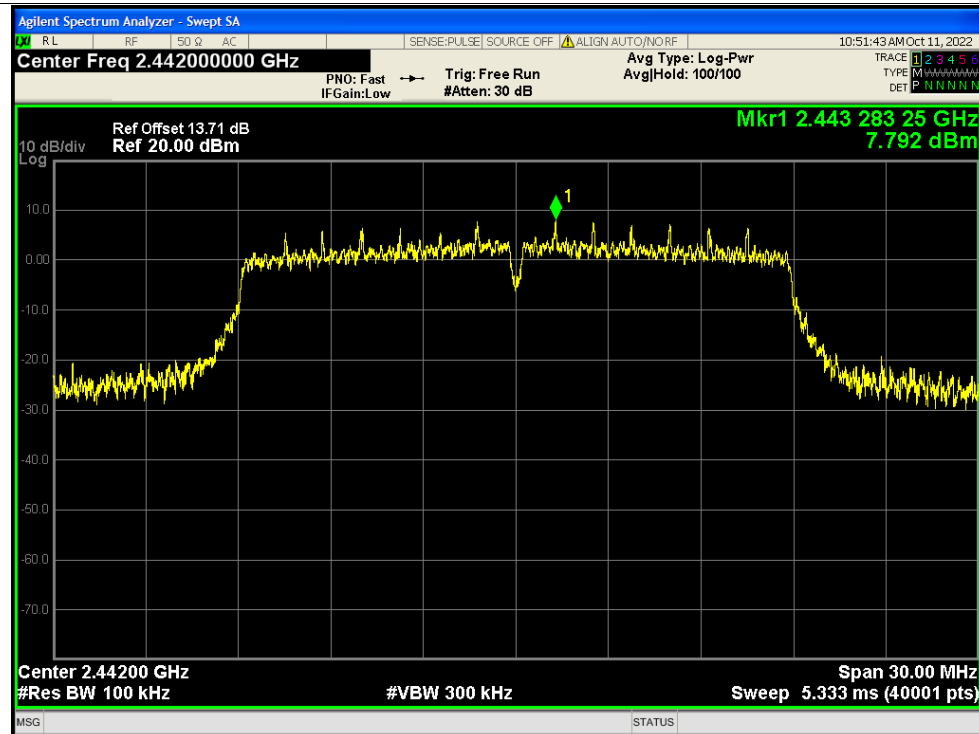


Tx. Spurious NVNT n20 2412MHz Ant1 Emission

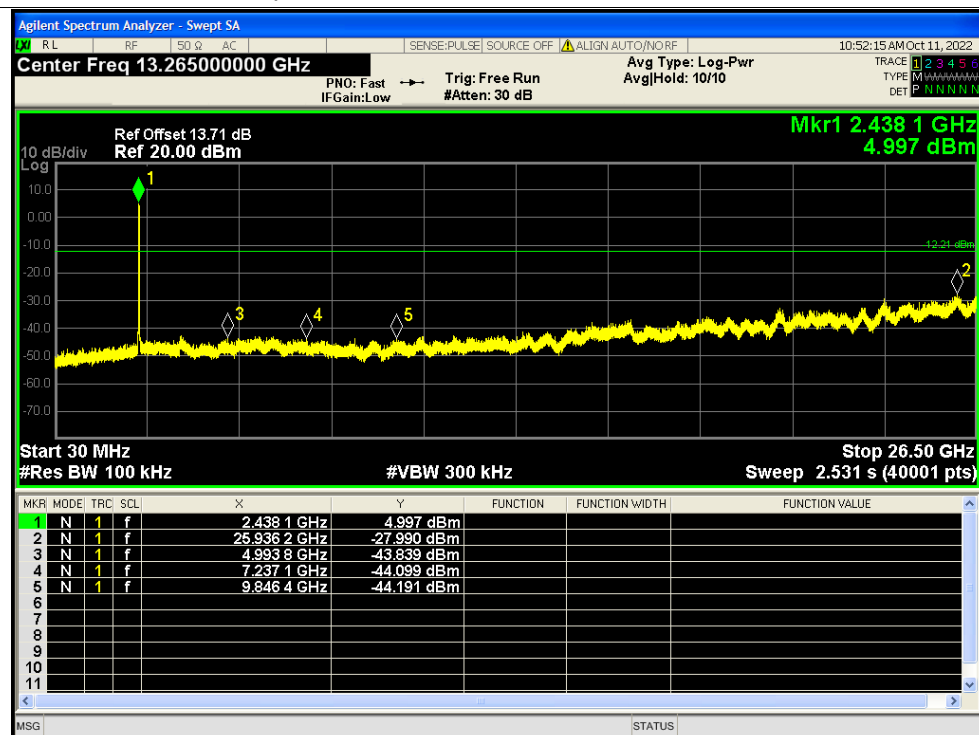




Tx. Spurious NVNT n20 2442MHz Ant1 Ref

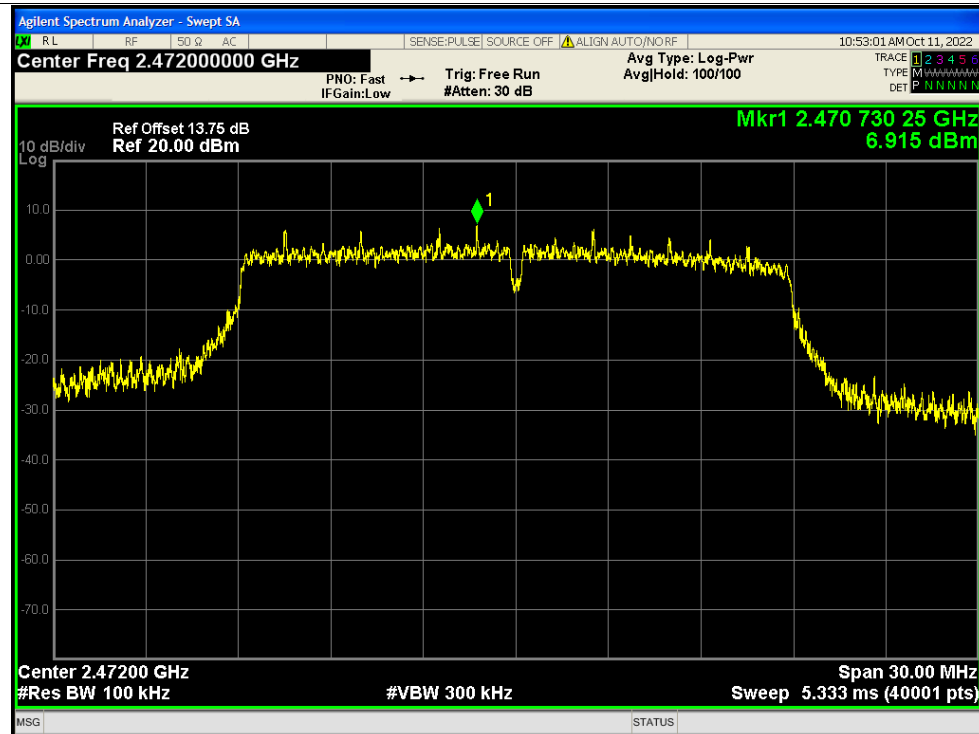


Tx. Spurious NVNT n20 2442MHz Ant1 Emission

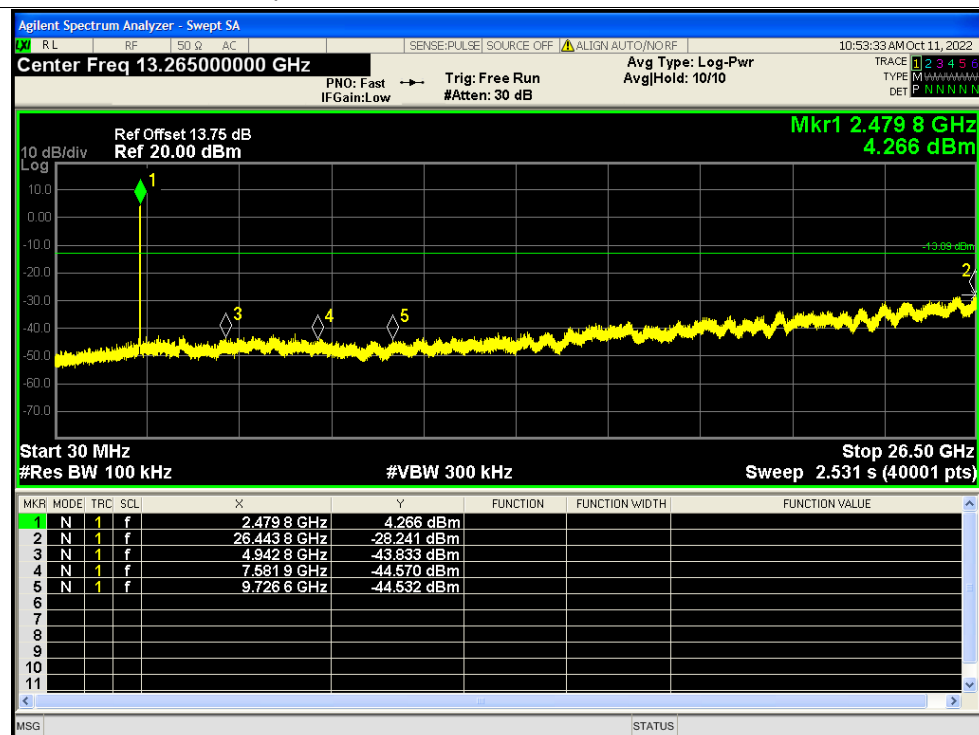




Tx. Spurious NVNT n20 2472MHz Ant1 Ref



Tx. Spurious NVNT n20 2472MHz Ant1 Emission





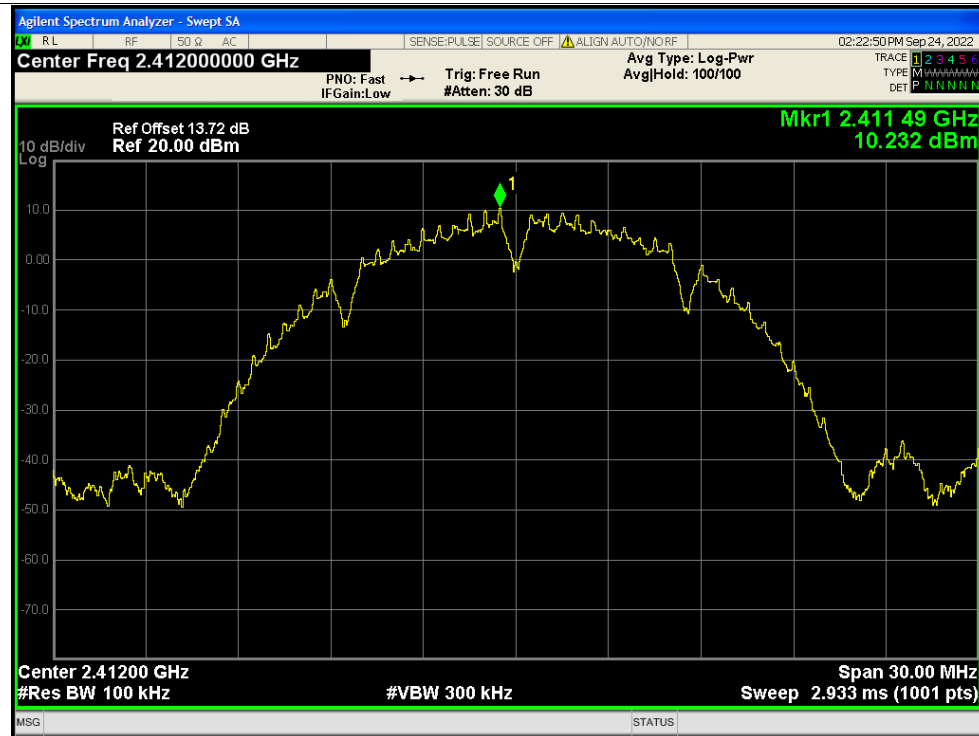
REPORT No.: SZ22080394W03

A.6. Band Edge

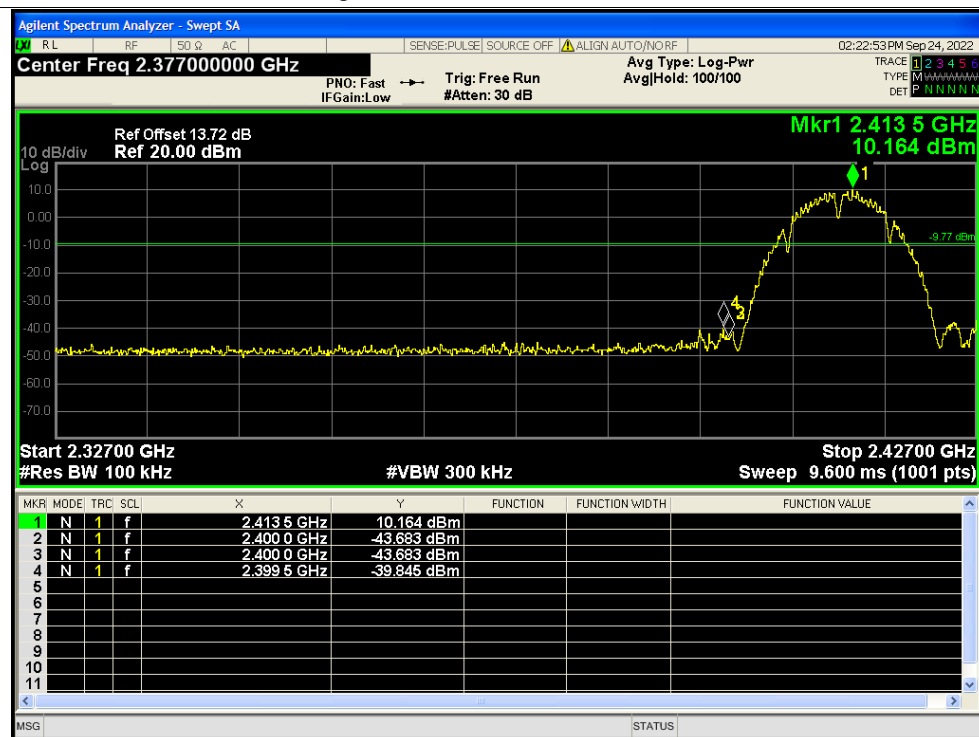
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.07	-20	Pass
NVNT	b	2472	Ant1	-47.82	-20	Pass
NVNT	g	2412	Ant1	-34.32	-20	Pass
NVNT	g	2472	Ant1	-30.65	-20	Pass
NVNT	n20	2412	Ant1	-35.97	-20	Pass
NVNT	n20	2472	Ant1	-30.26	-20	Pass



Band Edge NVNT b 2412MHz Ant1 Ref

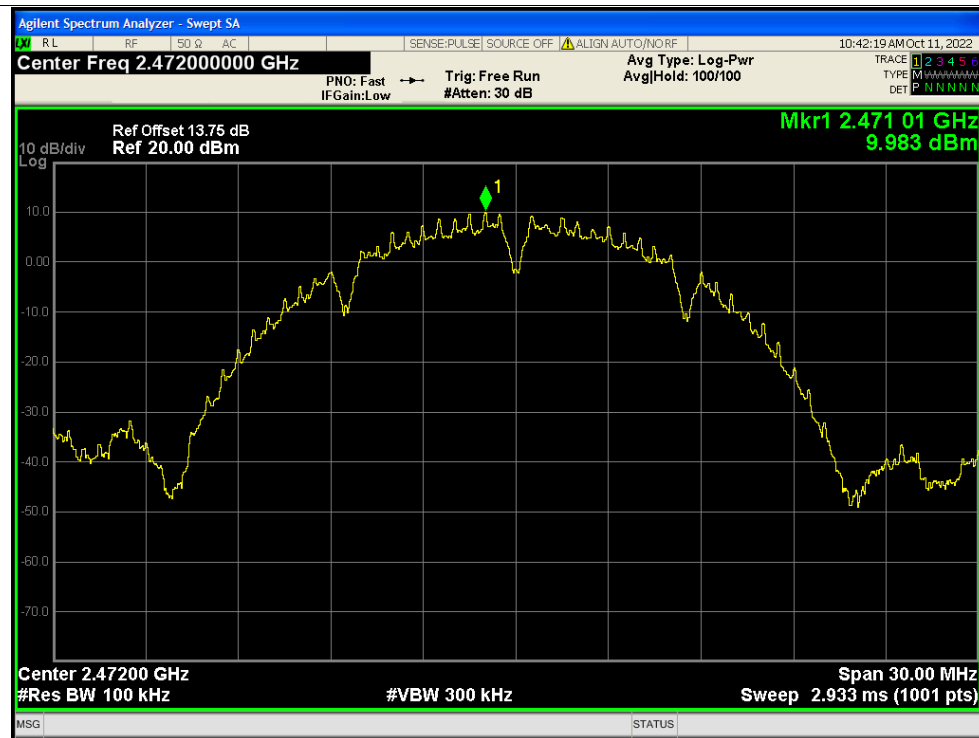


Band Edge NVNT b 2412MHz Ant1 Emission

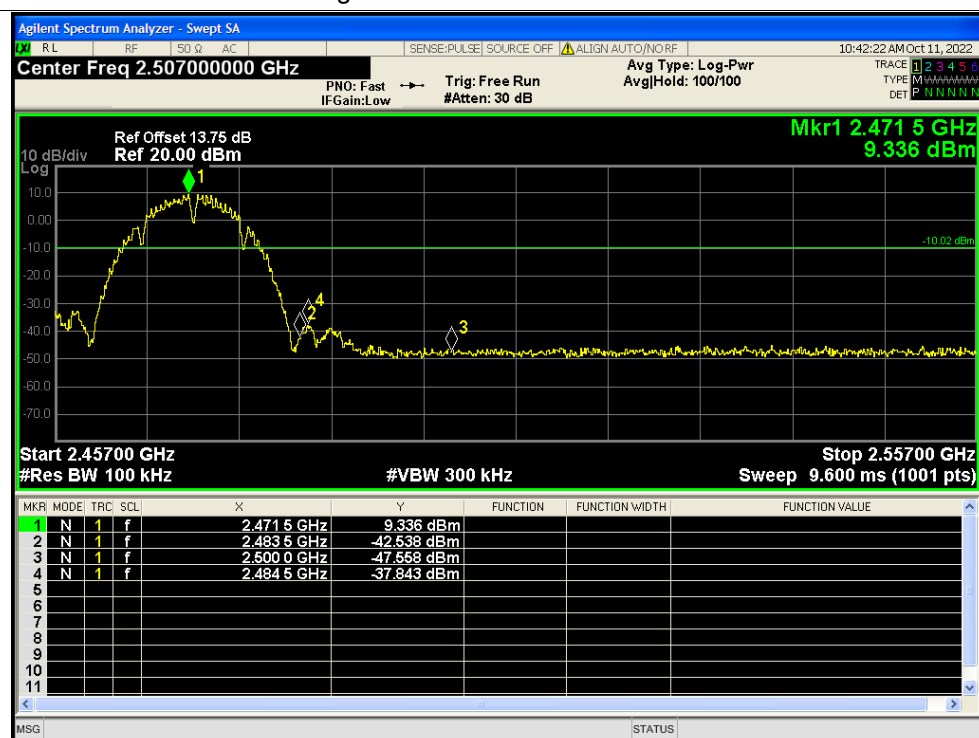




Band Edge NVNT b 2472MHz Ant1 Ref

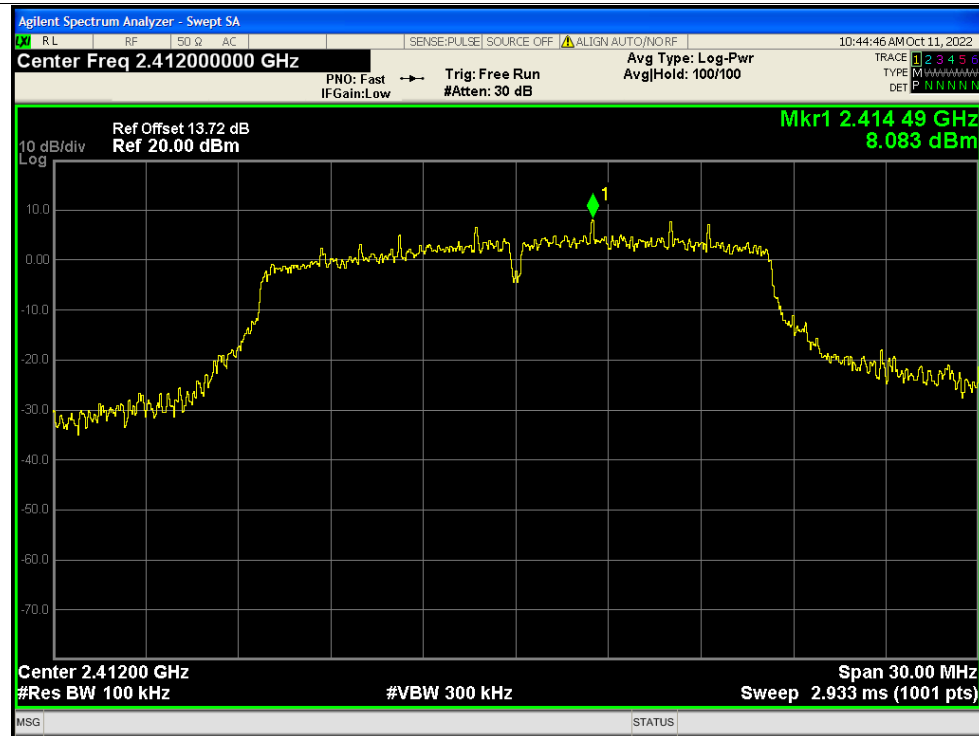


Band Edge NVNT b 2472MHz Ant1 Emission

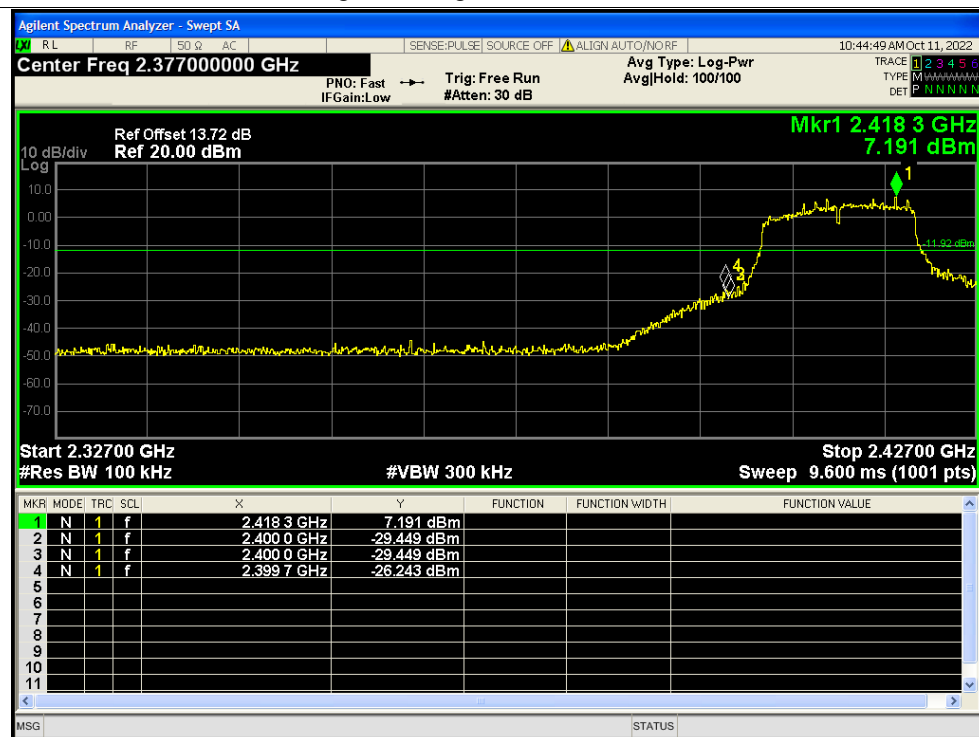




Band Edge NVNT g 2412MHz Ant1 Ref

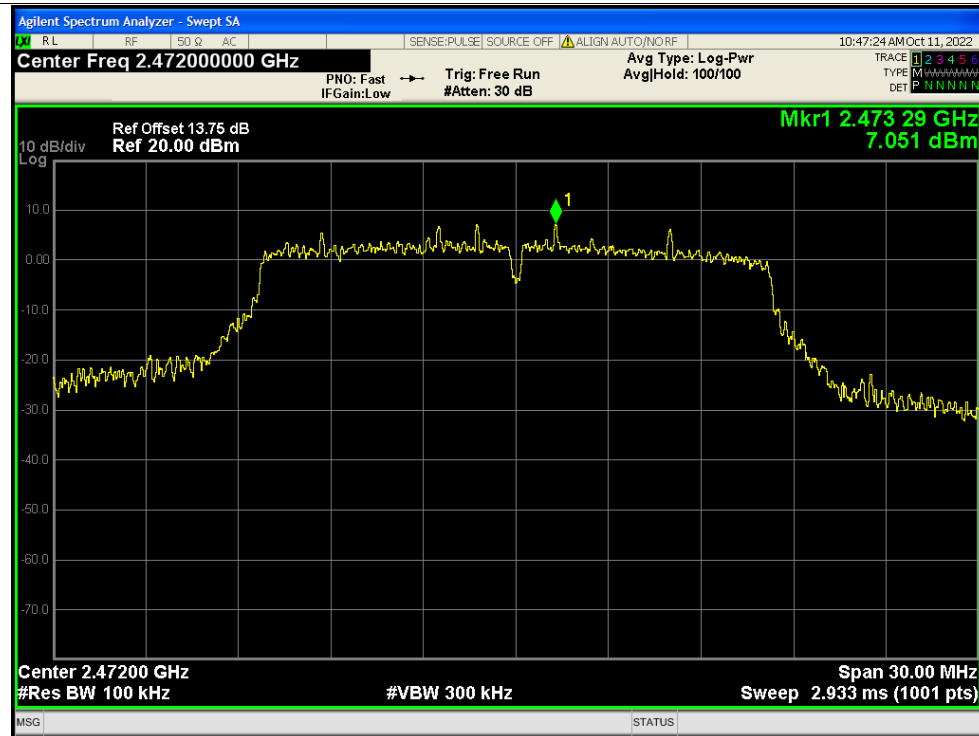


Band Edge NVNT g 2412MHz Ant1 Emission

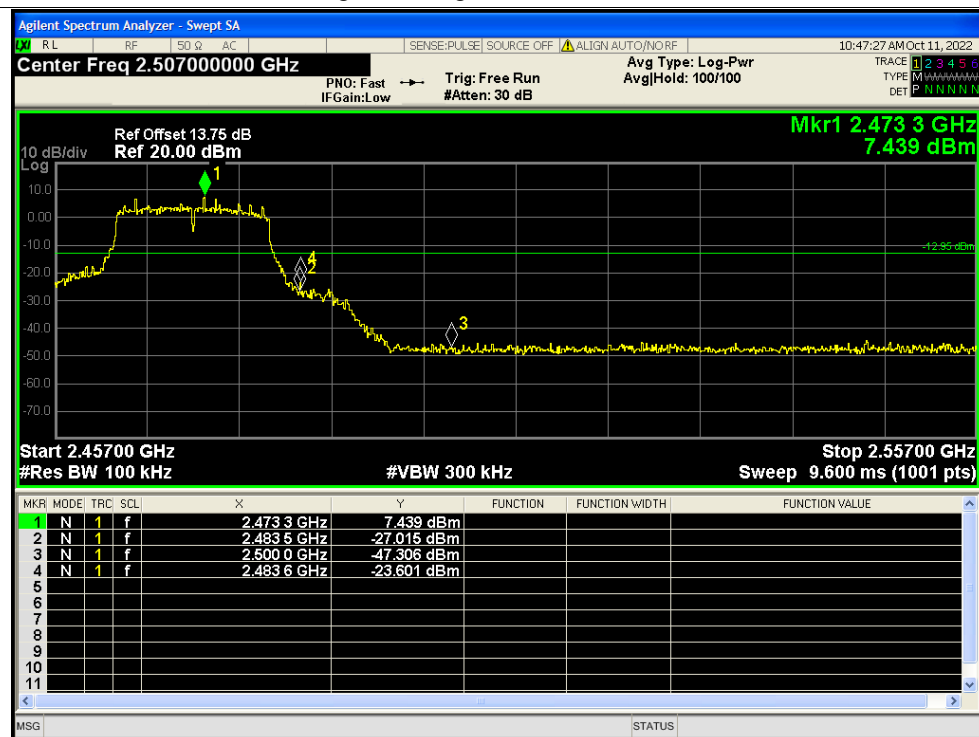




Band Edge NVNT g 2472MHz Ant1 Ref

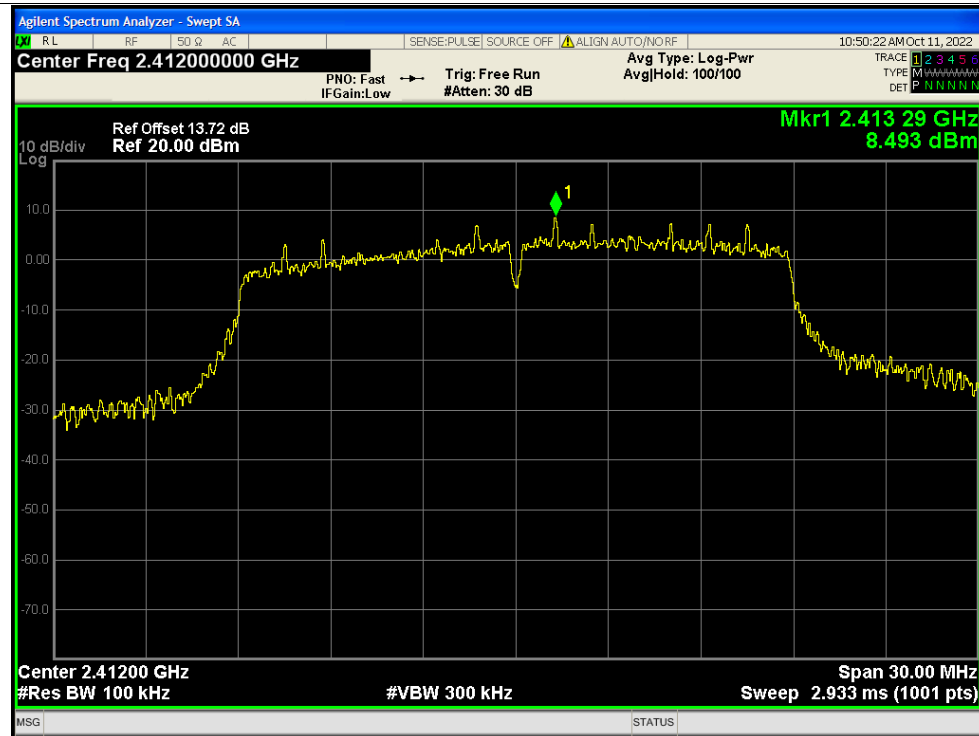


Band Edge NVNT g 2472MHz Ant1 Emission

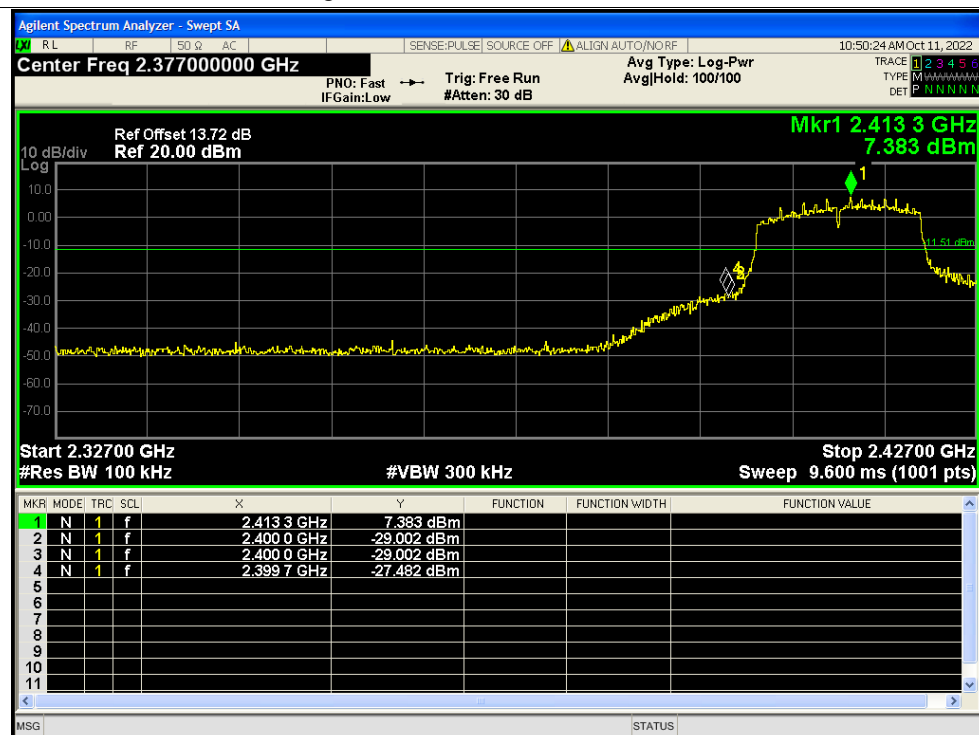




Band Edge NVNT n20 2412MHz Ant1 Ref

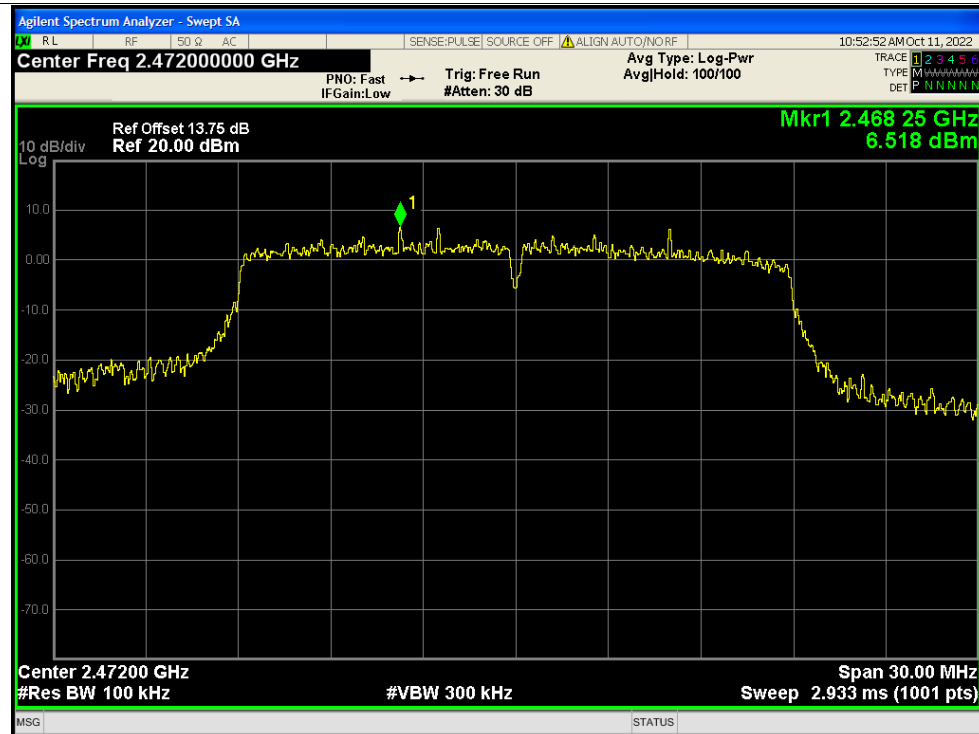


Band Edge NVNT n20 2412MHz Ant1 Emission

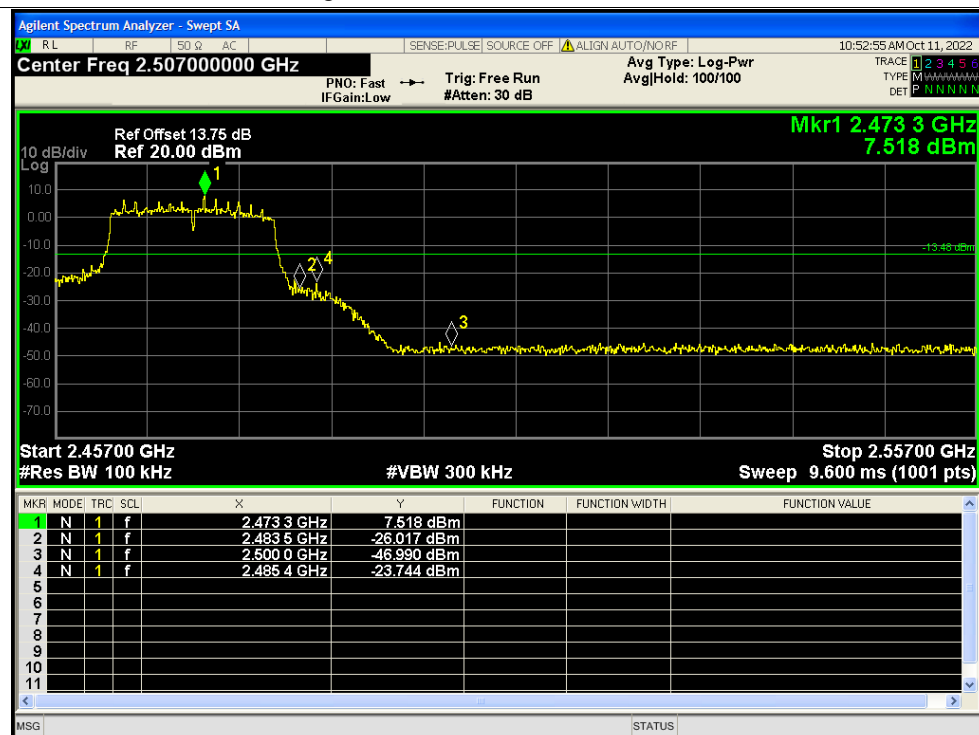




Band Edge NVNT n20 2472MHz Ant1 Ref



Band Edge NVNT n20 2472MHz Ant1 Emission



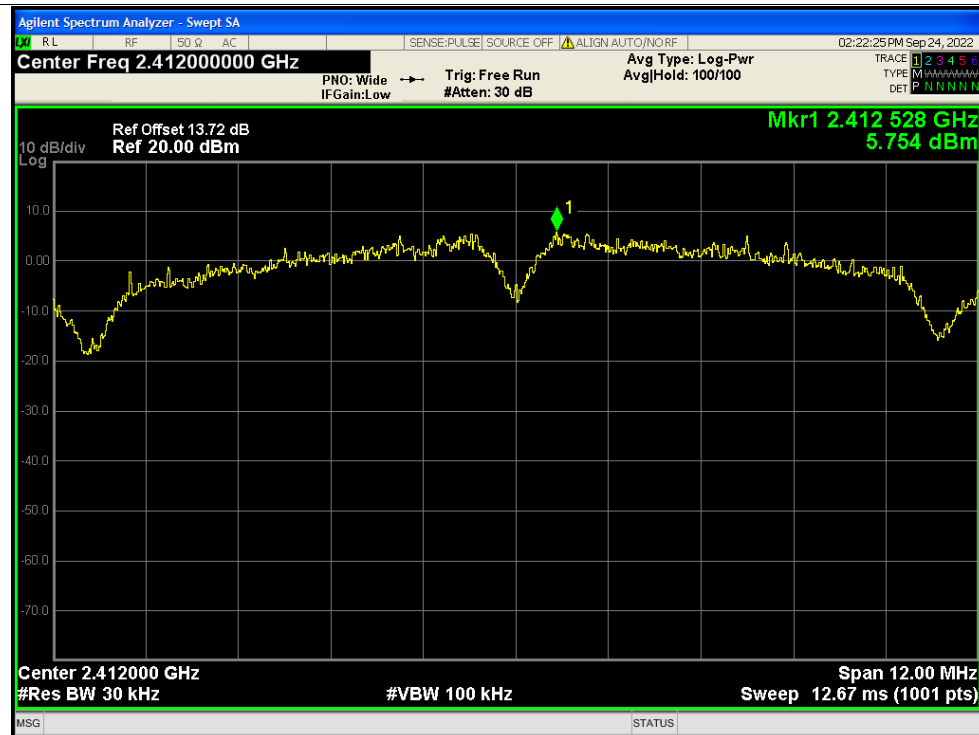
**A.7. Power Spectral Density**

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-4.25	0	-4.25	8	Pass
NVNT	b	2442	Ant1	-3.82	0	-3.82	8	Pass
NVNT	b	2472	Ant1	-4.53	0	-4.53	8	Pass
NVNT	g	2412	Ant1	-6.19	0	-6.19	8	Pass
NVNT	g	2442	Ant1	-7.36	0	-7.36	8	Pass
NVNT	g	2472	Ant1	-7.39	0	-7.39	8	Pass
NVNT	n20	2412	Ant1	-6.97	0	-6.97	8	Pass
NVNT	n20	2442	Ant1	-6.56	0	-6.56	8	Pass
NVNT	n20	2472	Ant1	-6.94	0	-6.94	8	Pass

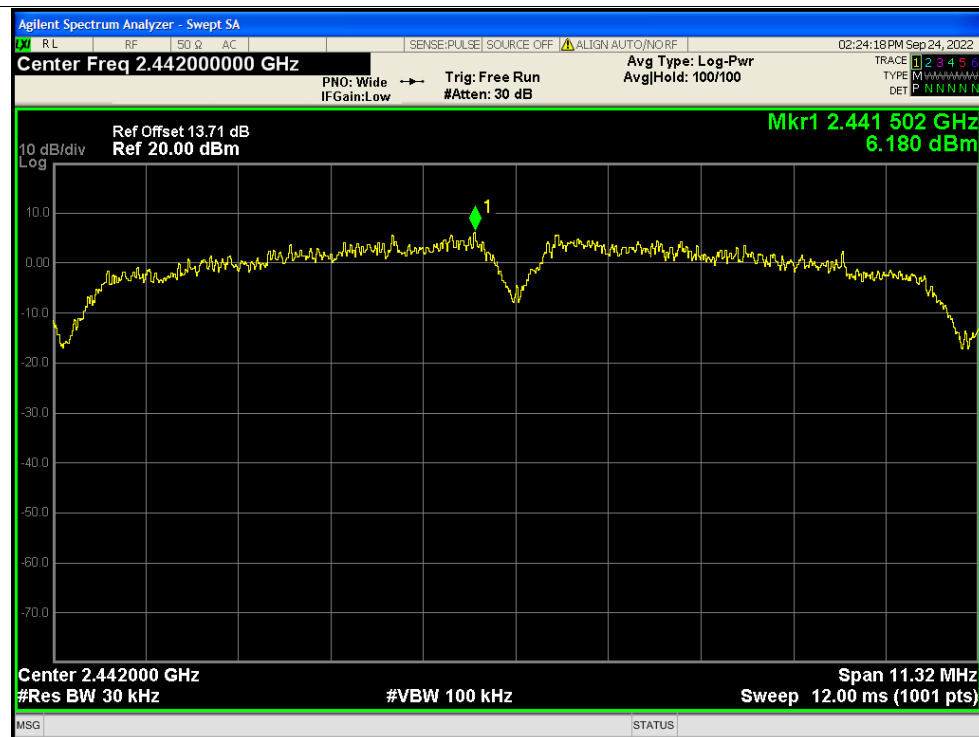


Test Graphs

PSD NVNT b 2412MHz Ant1

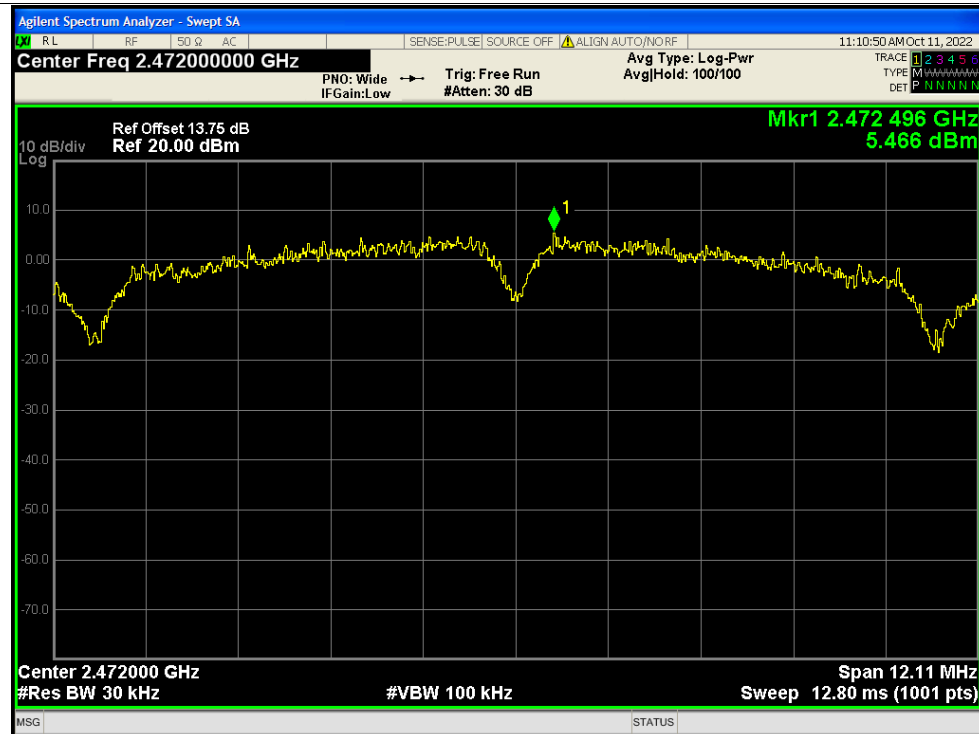


PSD NVNT b 2442MHz Ant1

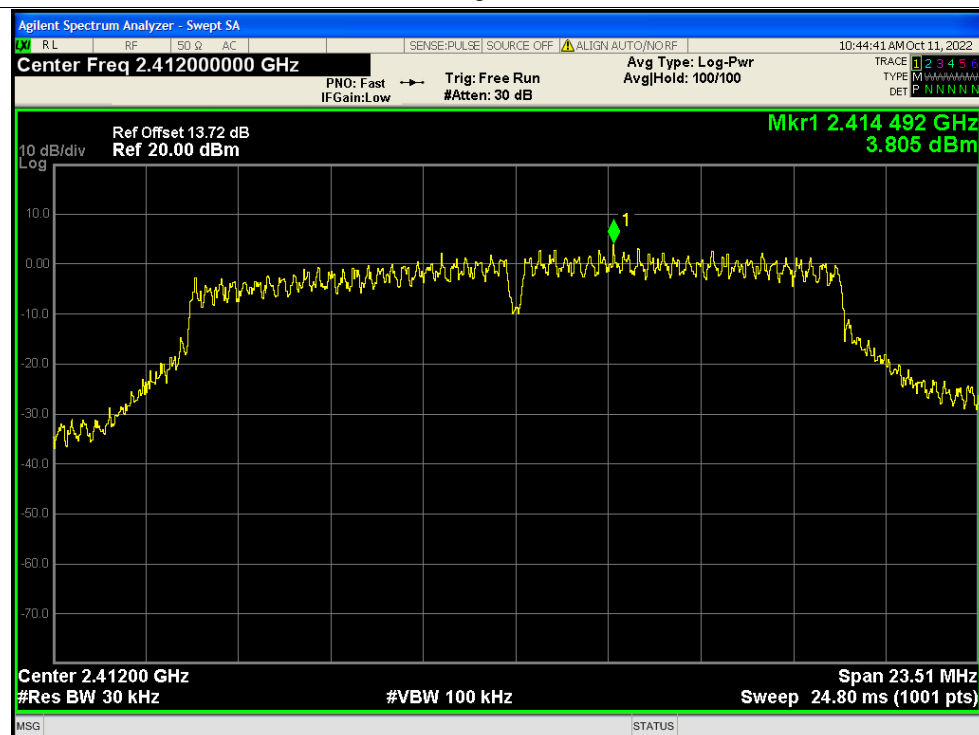




PSD NVNT b 2472MHz Ant1

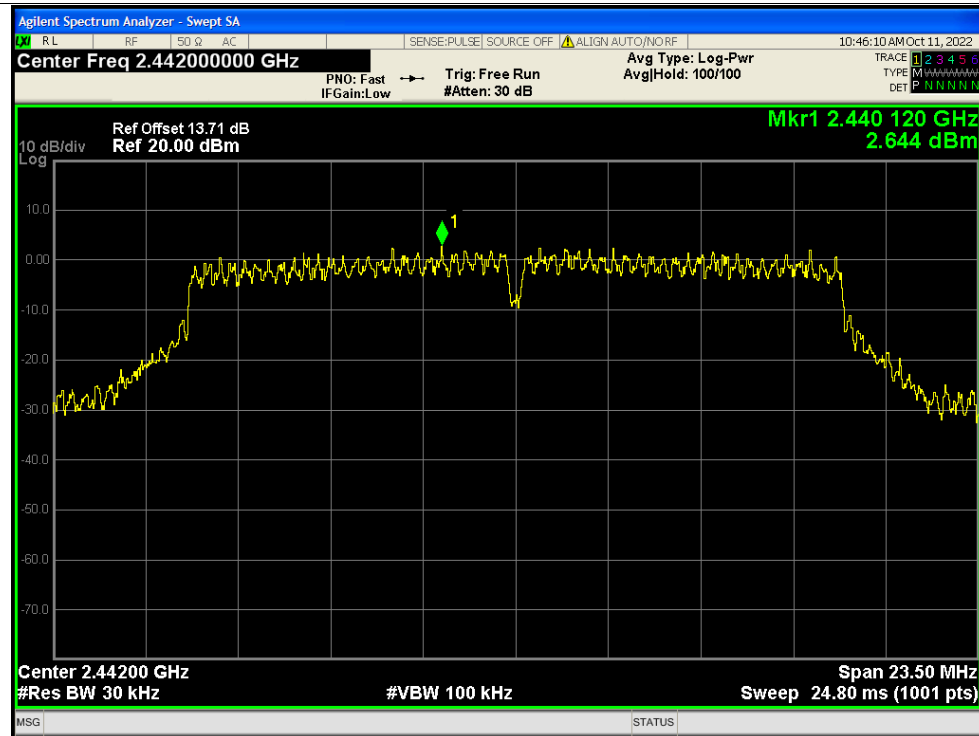


PSD NVNT g 2412MHz Ant1

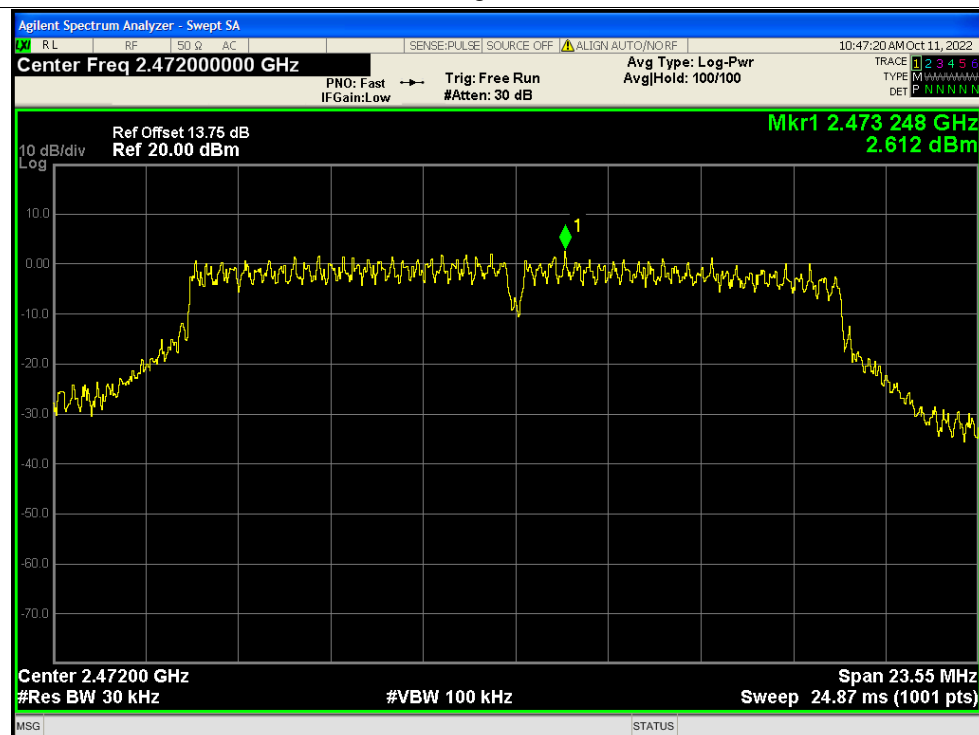




PSD NVNT g 2442MHz Ant1

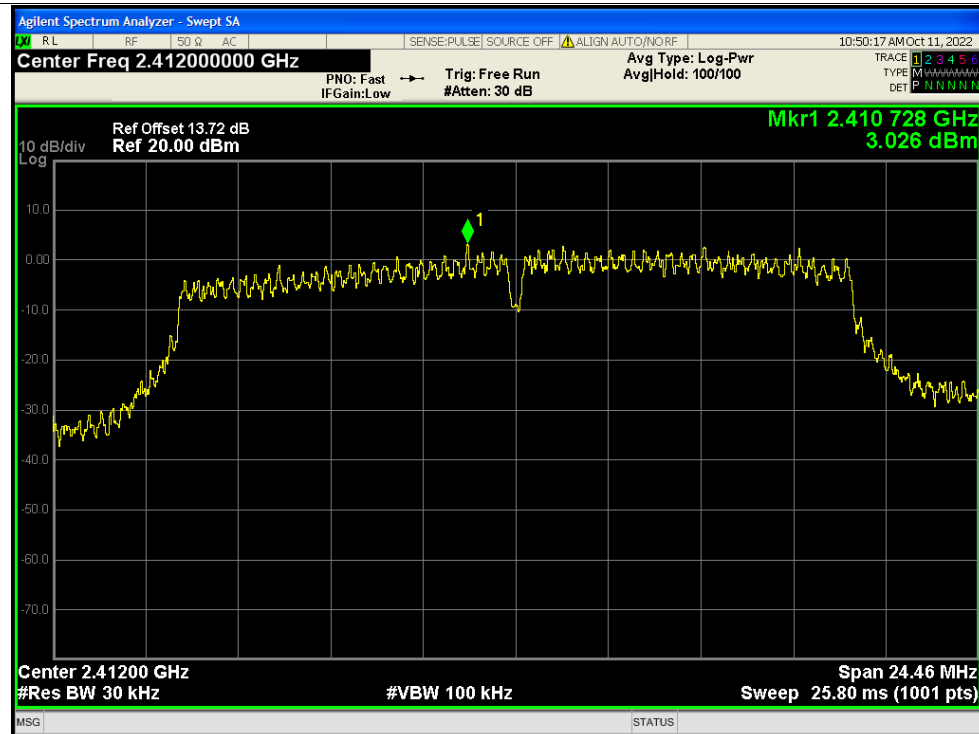


PSD NVNT g 2472MHz Ant1

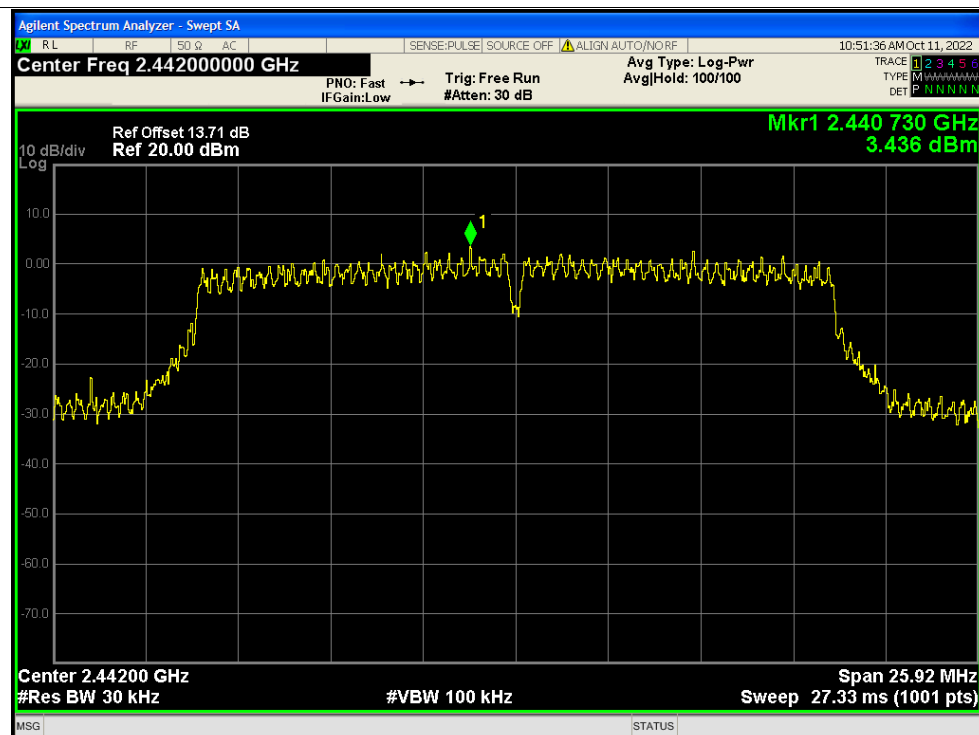


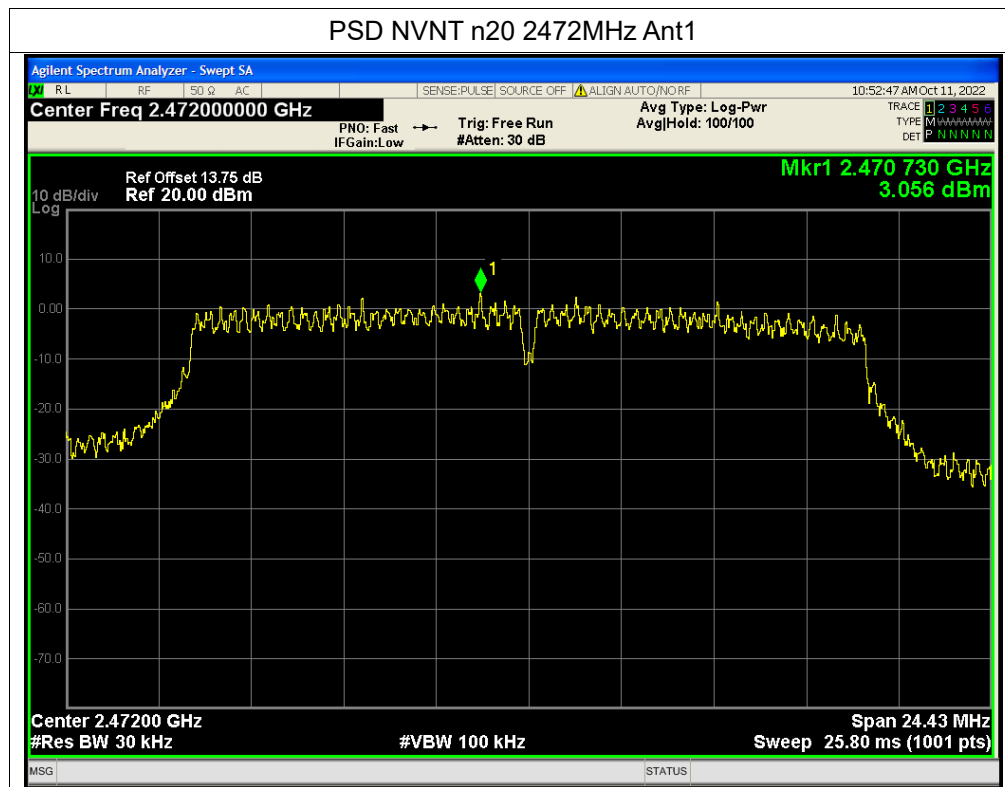


PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2442MHz 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 + Earphone +WIFI TX

Test voltage: AC 120V/60Hz

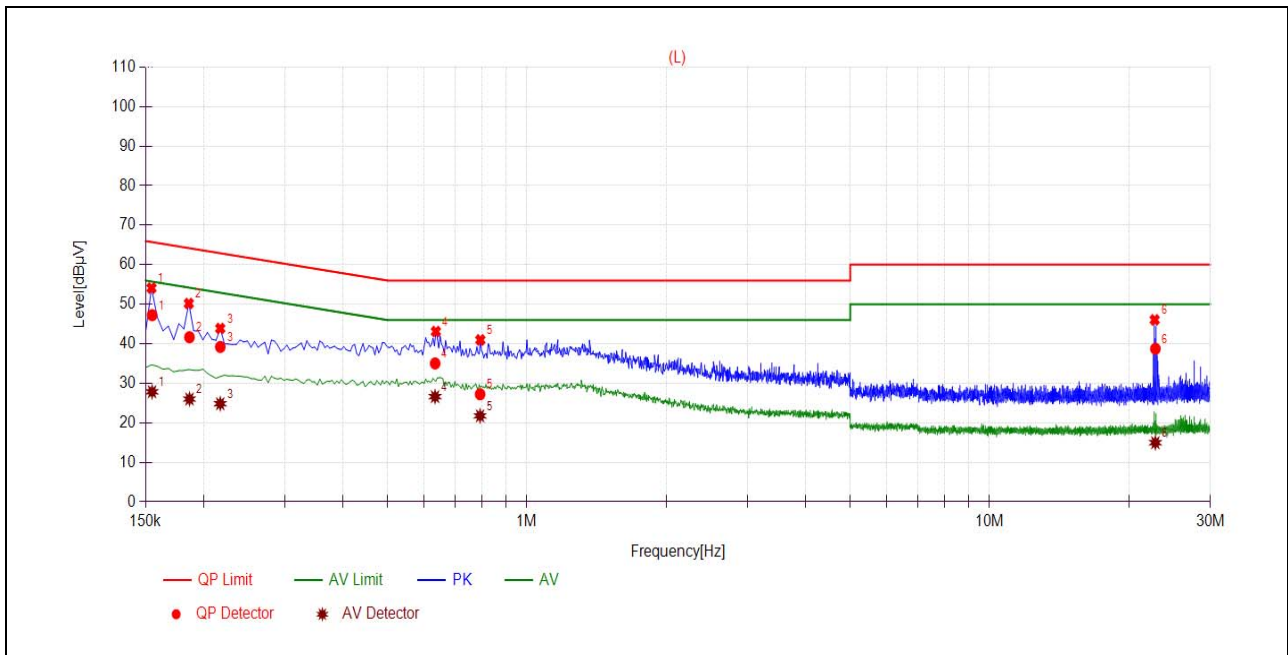
The measurement results are obtained as below:

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

U_R : Receiver Reading

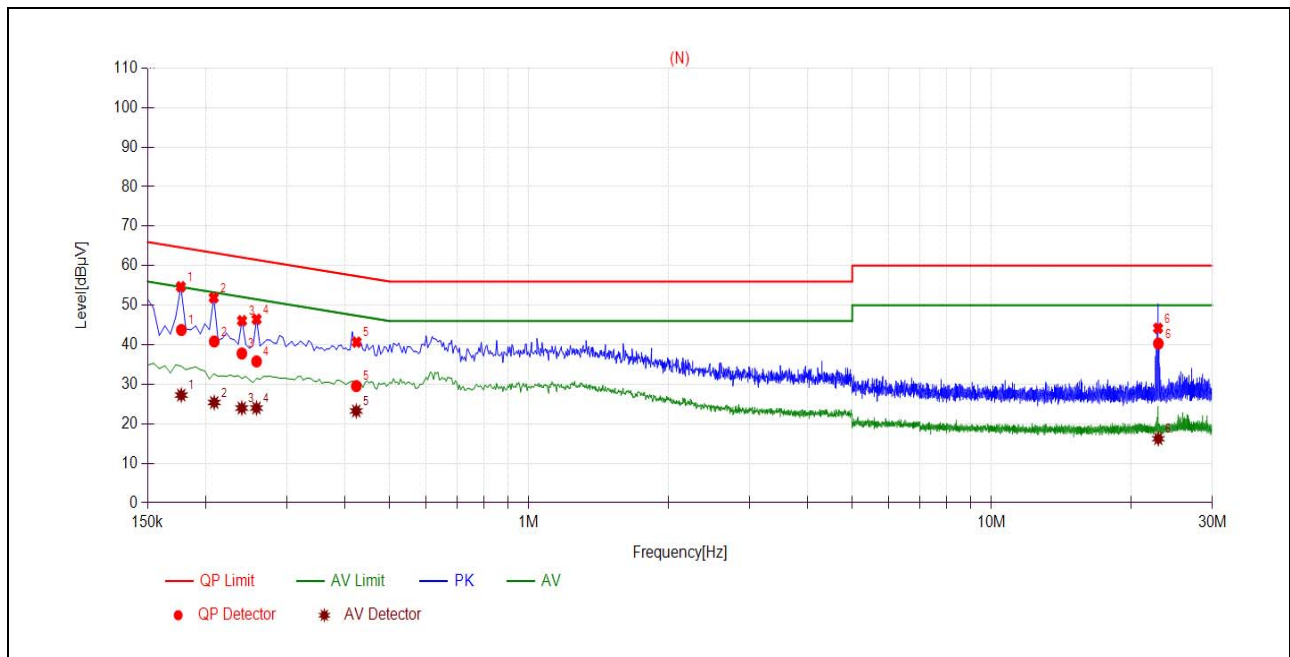
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1549	47.25	27.85	65.73	55.73	Line	PASS
2	0.1866	41.66	26.01	64.19	54.19		PASS
3	0.2175	39.19	24.82	62.91	52.91		PASS
4	0.6334	35.03	26.61	56.00	46.00		PASS
5	0.7924	27.23	21.75	56.00	46.00		PASS
6	22.8191	38.72	14.97	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1774	43.75	27.26	64.61	54.61	Neutral	PASS
2	0.2090	40.84	25.39	63.24	53.24		PASS
3	0.2397	37.79	23.98	62.11	52.11		PASS
4	0.2579	35.78	23.99	61.50	51.50		PASS
5	0.4237	29.54	23.23	57.38	47.38		PASS
6	22.9277	40.30	16.23	60.00	50.00		PASS



A.9. Restricted Frequency Bands

The lowest and highest channels are tested to verify the Restricted Frequency Bands.

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

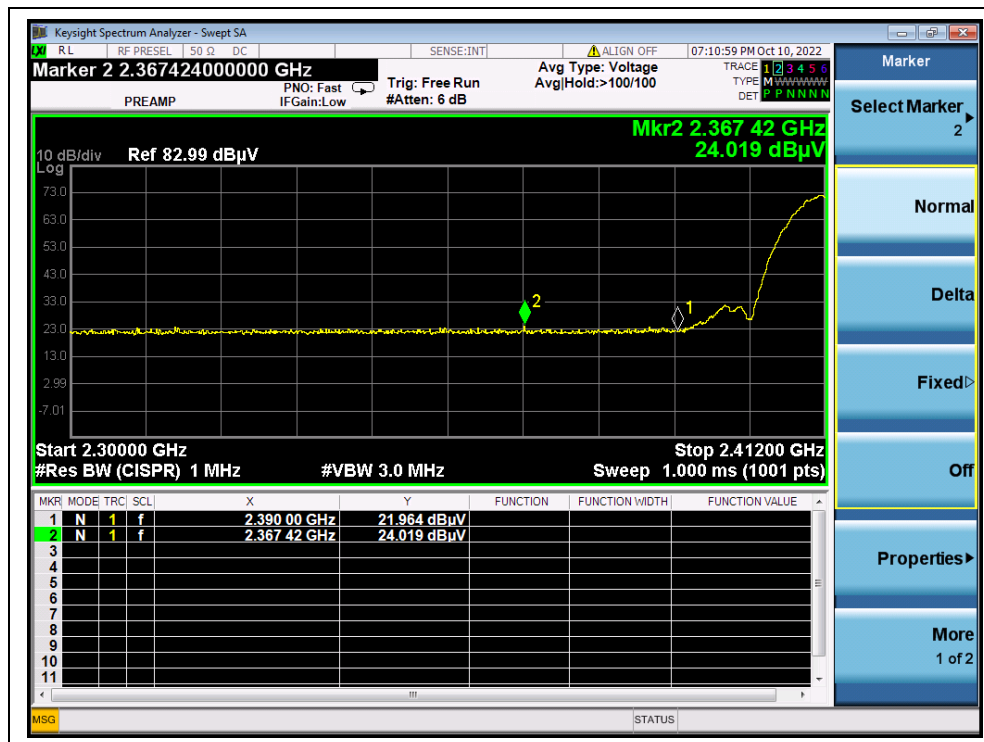
G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

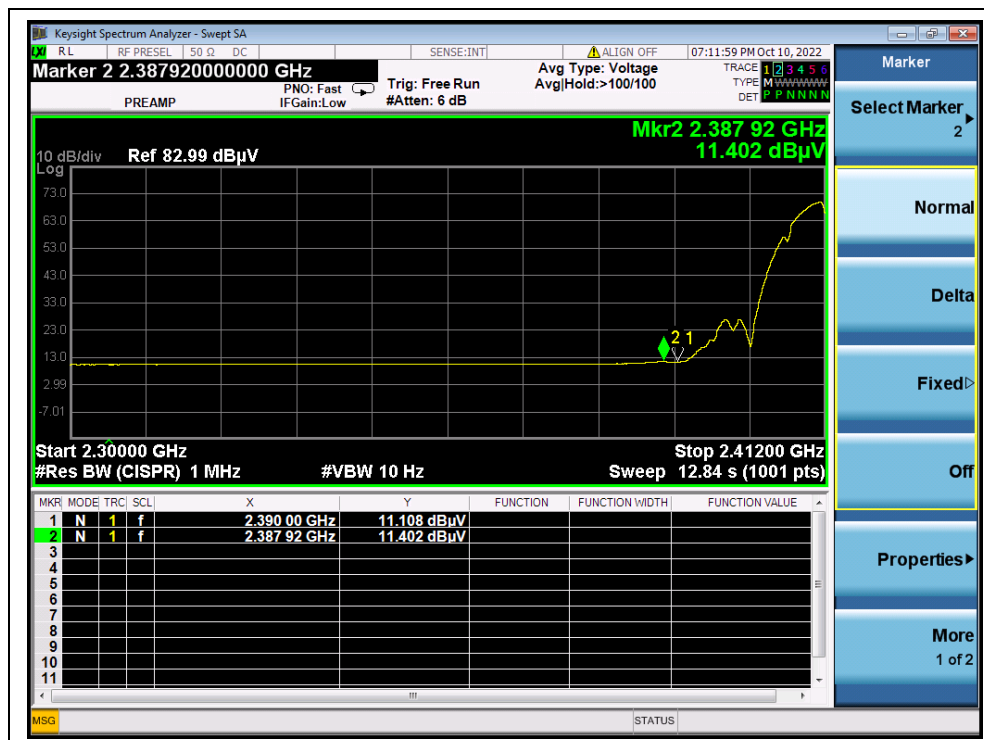
Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

802.11b Mode

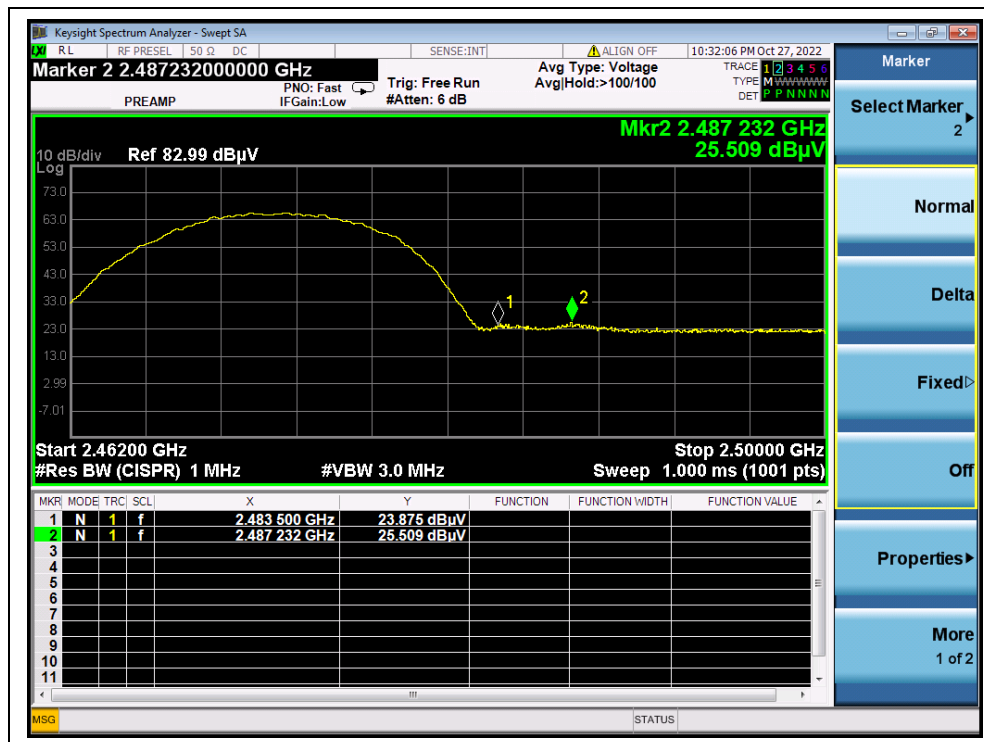
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2367.42	PK	24.02	6.74	27.20	57.96	74	PASS
0	2387.92	AV	11.40	6.74	27.20	45.34	54	PASS
39	2487.23	PK	25.51	6.74	27.20	59.45	74	PASS
39	2487.23	AV	16.26	6.74	27.20	50.20	54	PASS



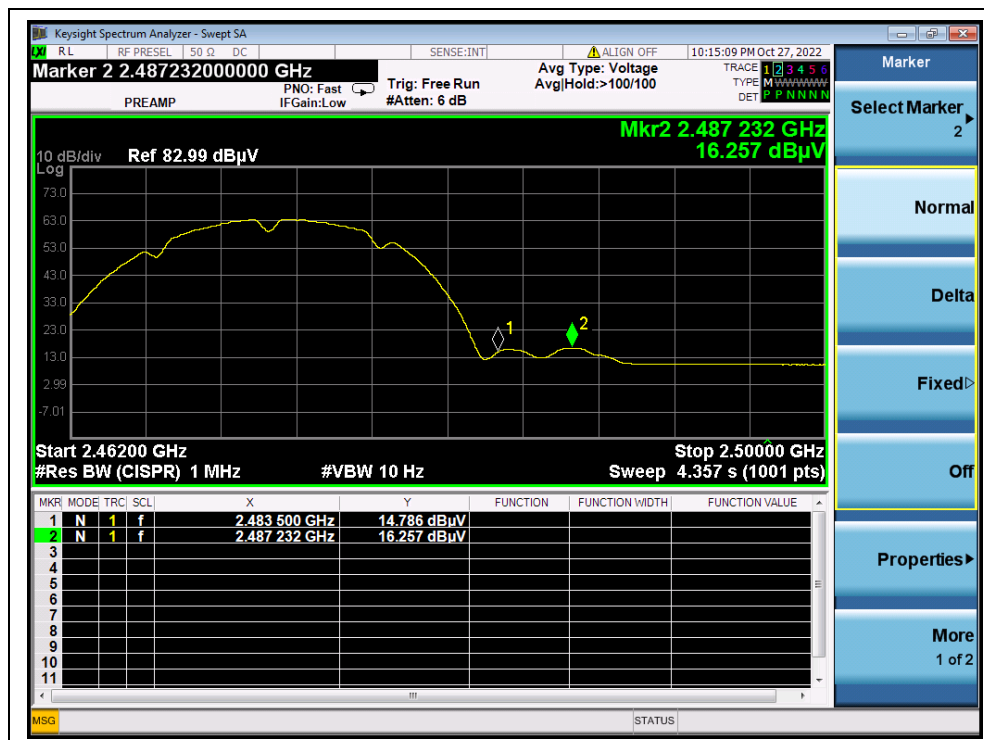
(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 13, 802.11b)

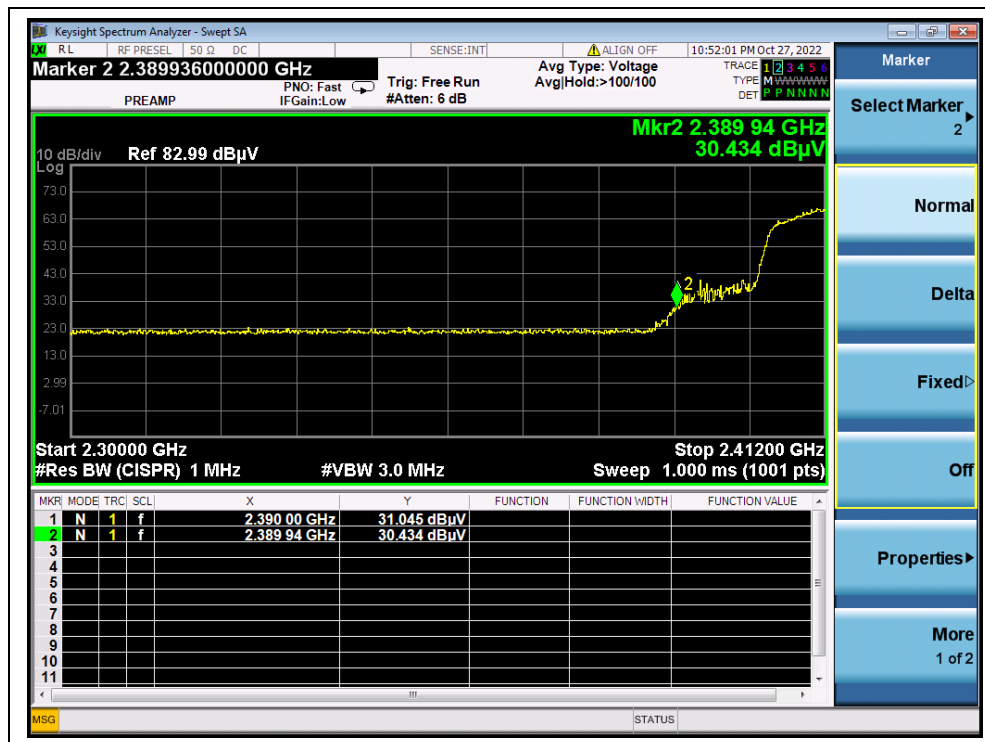


(AVERAGE, Channel 13, 802.11b)

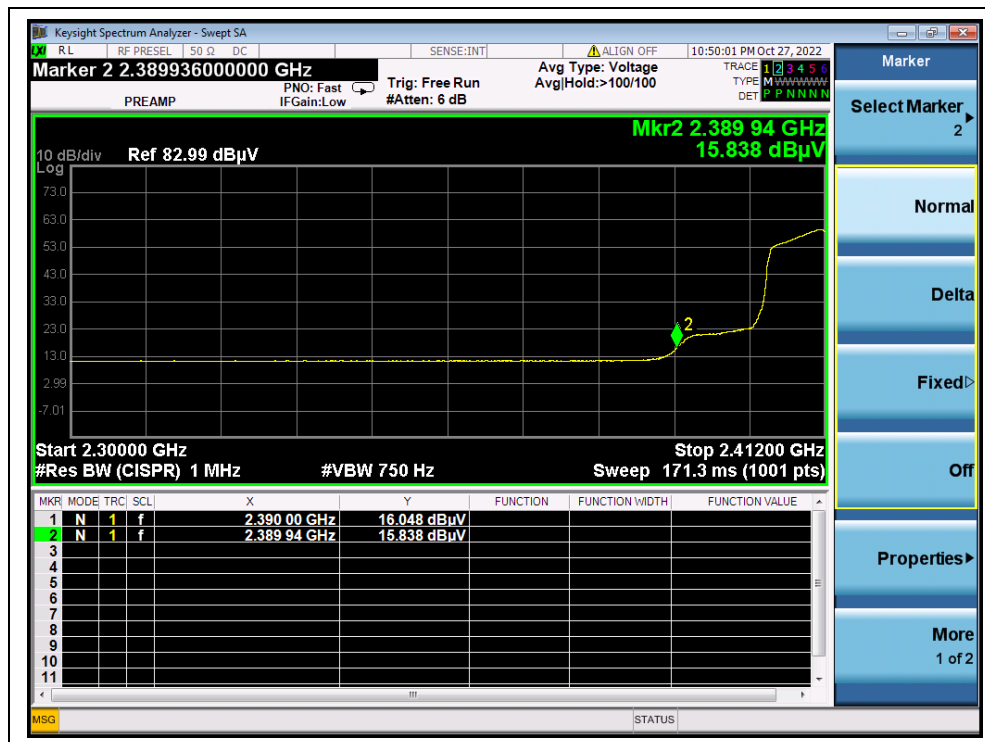


802.11g Mode

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
0	2390.00	PK	31.05	6.74	27.20	64.99	74	PASS
0	2390.00	AV	16.05	6.74	27.20	49.99	54	PASS
39	2485.22	PK	31.61	6.74	27.20	65.55	74	PASS
39	2483.50	AV	17.04	6.74	27.20	50.98	54	PASS



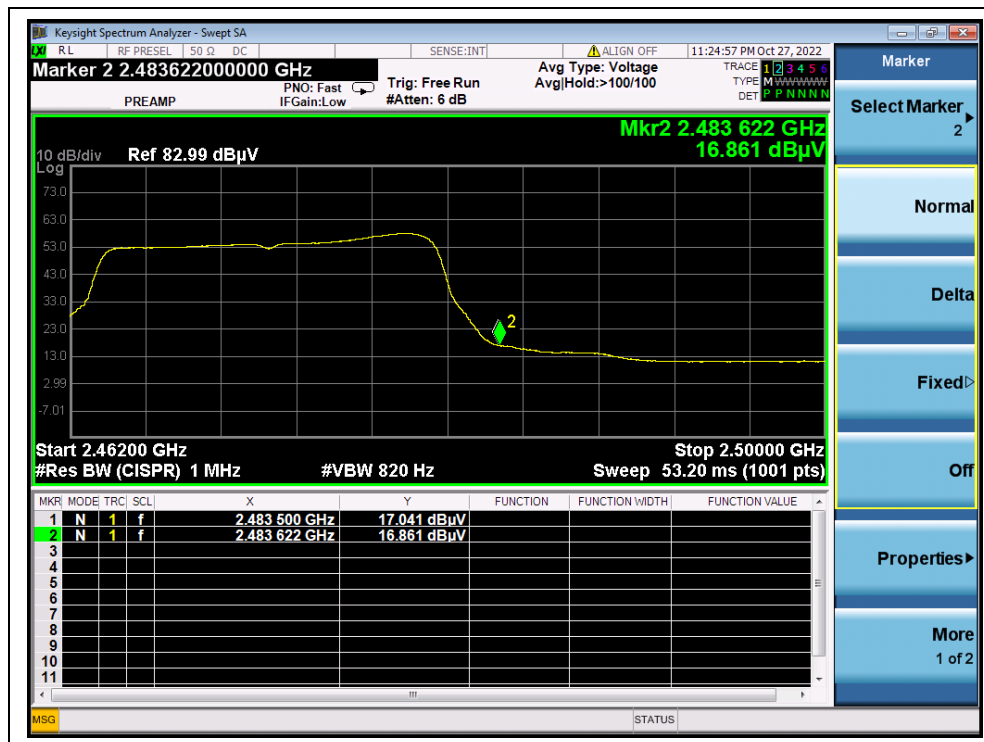
(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



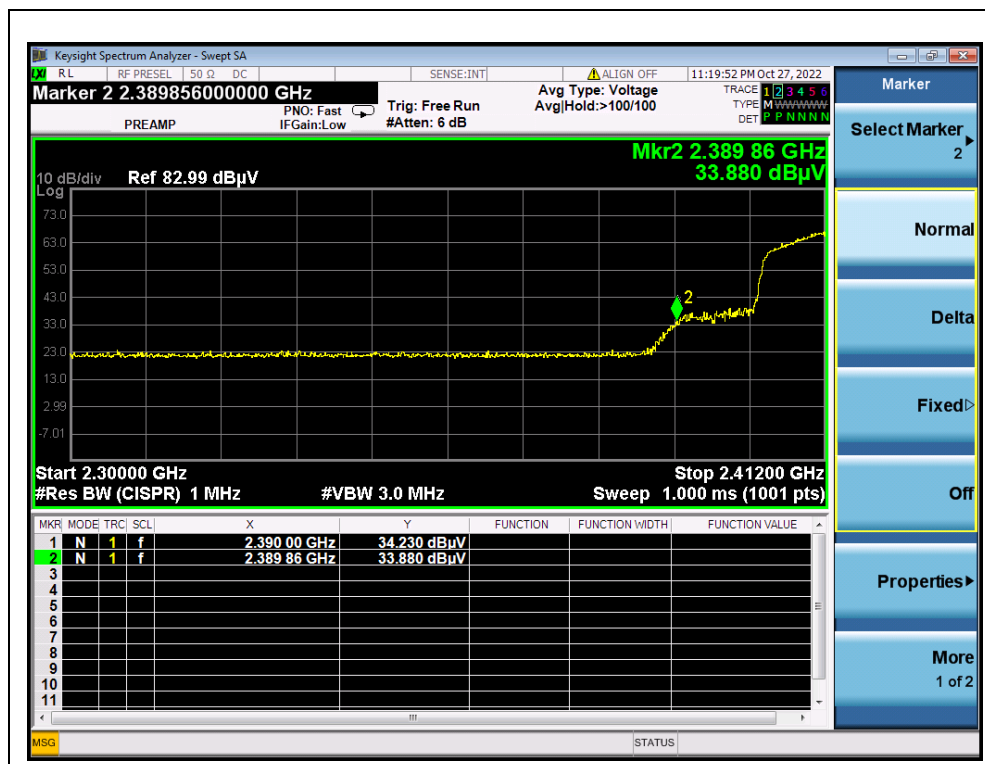
(PEAK, Channel 13, 802.11g)



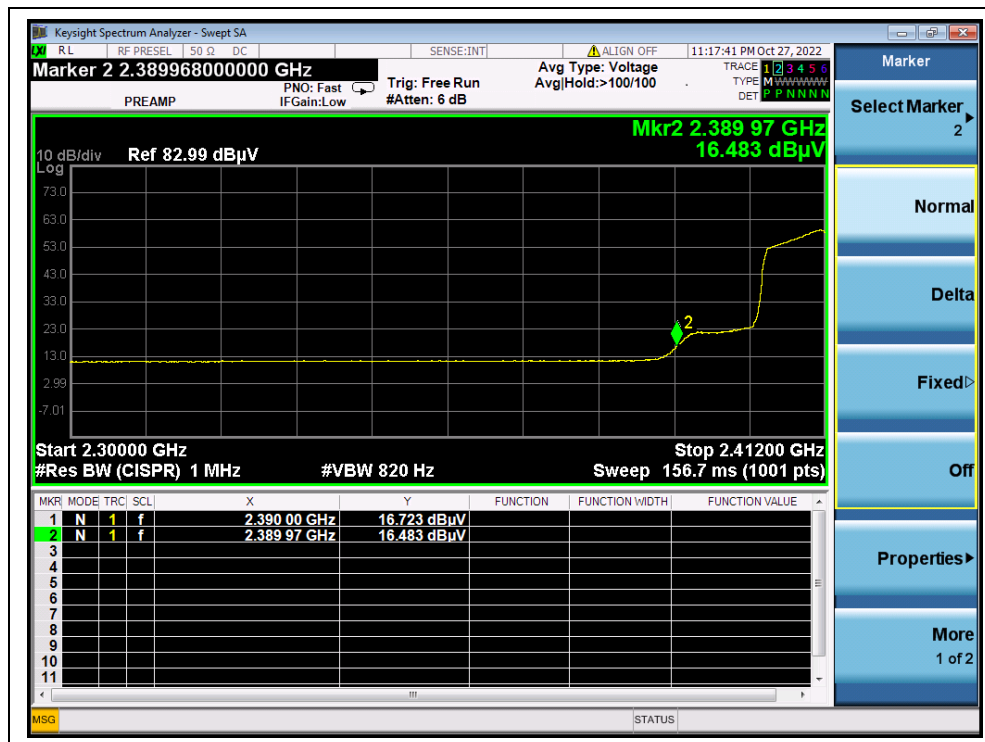
(AVERAGE, Channel 13, 802.11g)

**802.11 n (HT20) Mode**

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2389.86	PK	33.88	6.74	27.20	67.82	74	PASS
1	2390.00	AV	16.72	6.74	27.20	50.66	54	PASS
13	2483.50	PK	32.16	6.74	27.20	66.10	74	PASS
13	2483.50	AV	16.45	6.74	27.20	50.39	54	PASS



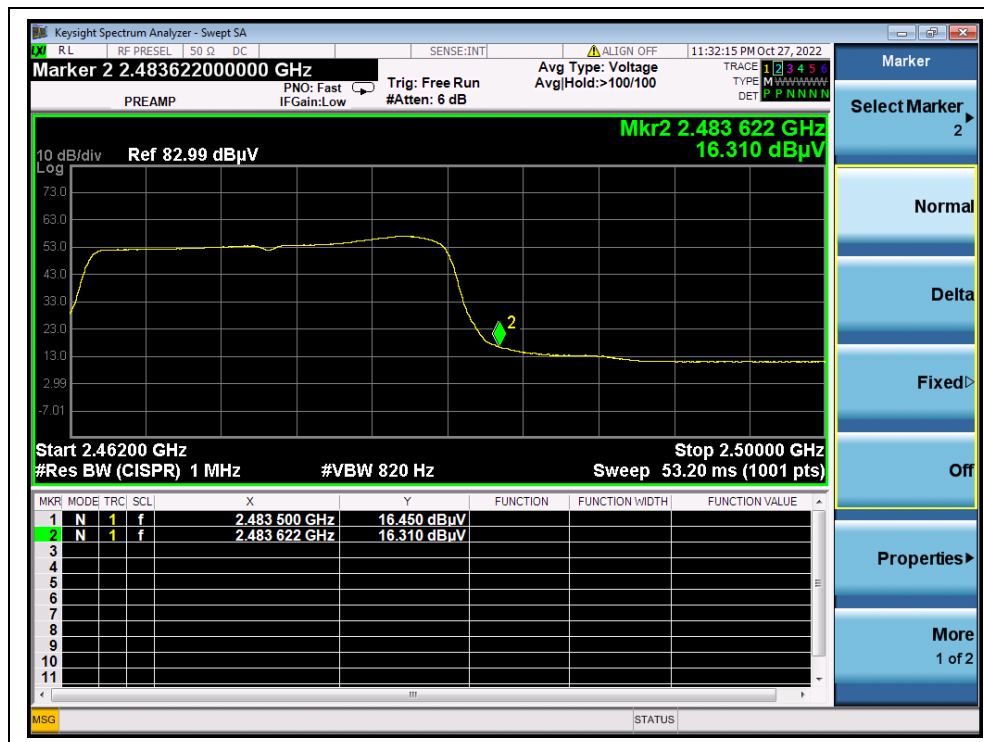
(PEAK, Channel 1, 802.11n (HT20))



(AVERAGE, Channel 1, 802.11n (HT20))



(PEAK, Channel 13, 802.11n (HT20))



(AVERAGE, Channel 13, 802.11n (HT20))



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_{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.

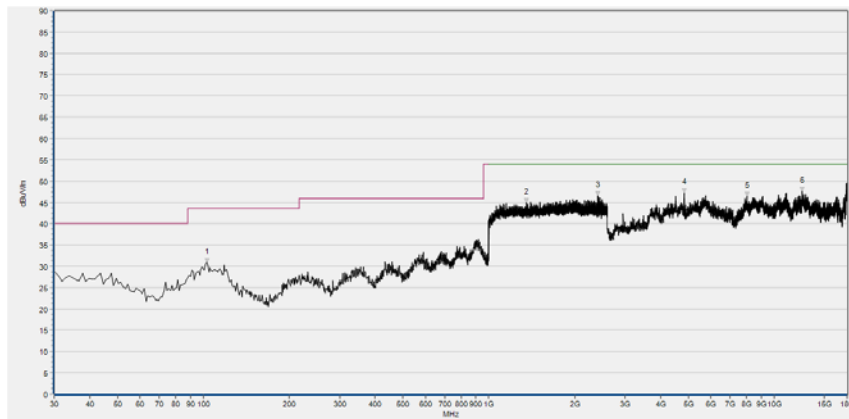
Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

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.

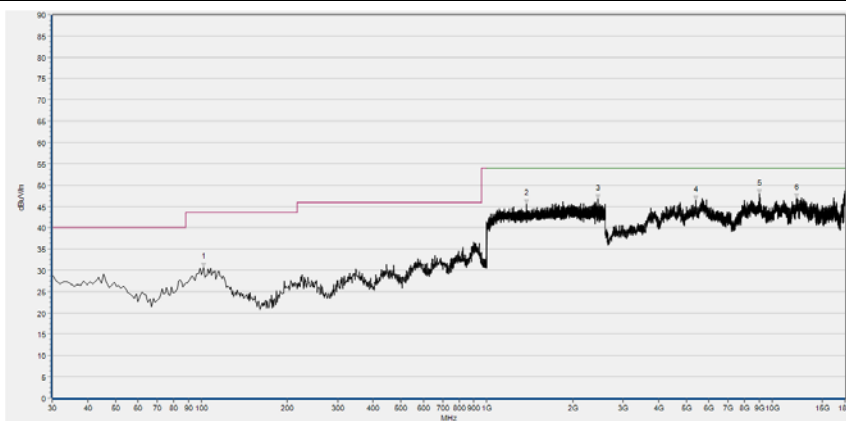
**802.11b Mode**

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	30.87	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1353.067	44.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2405.333	46.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4823.760	47.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8011.560	46.42	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12539.160	47.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

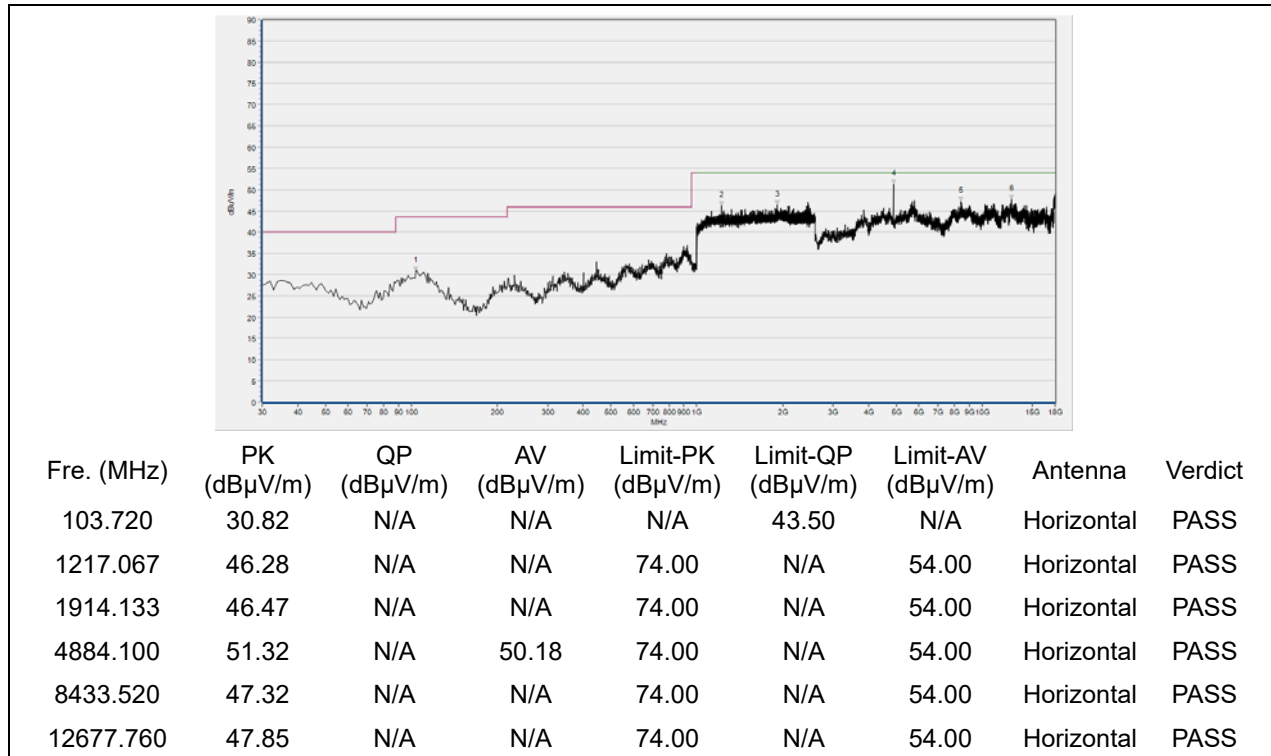
(Antenna Horizontal, 30MHz to 18GHz)



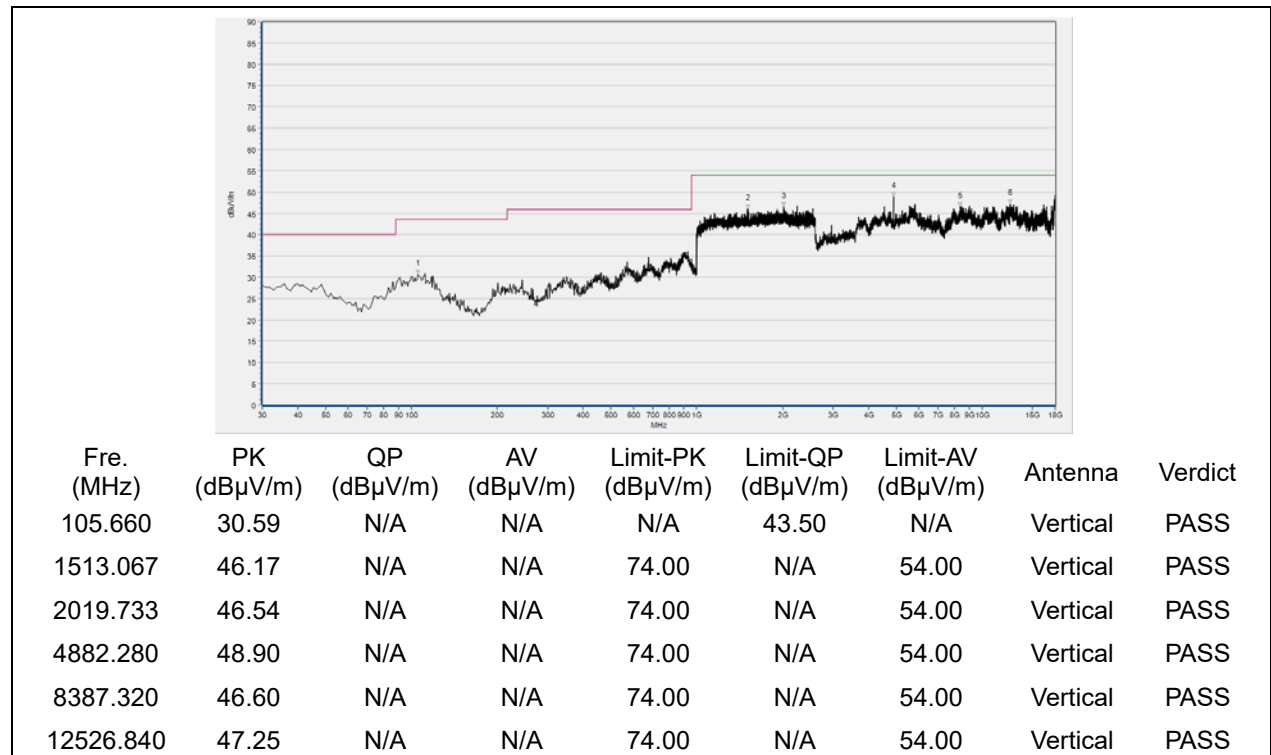
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.780	30.65	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1377.067	45.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2454.400	46.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5402.800	46.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9037.200	47.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12151.080	46.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 7



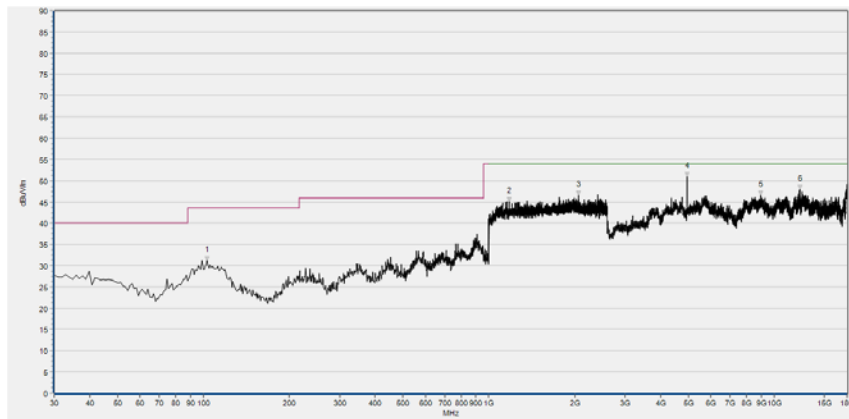
(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

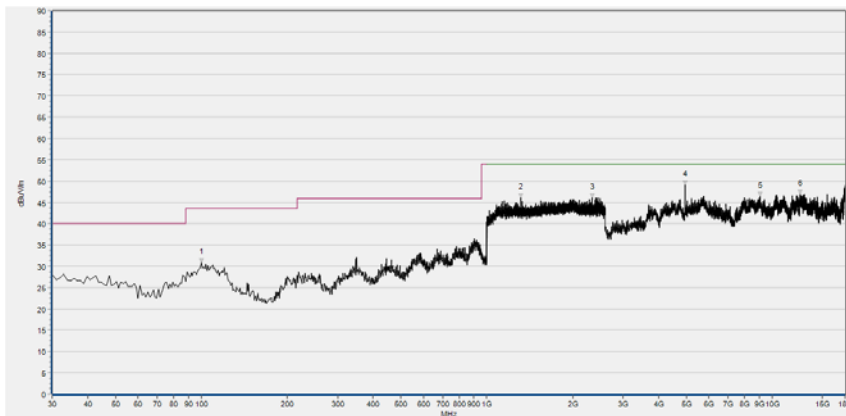


Plot for Channel 13



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	31.24	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1180.800	45.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2063.467	46.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4943.880	50.98	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8984.840	46.55	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12335.880	48.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

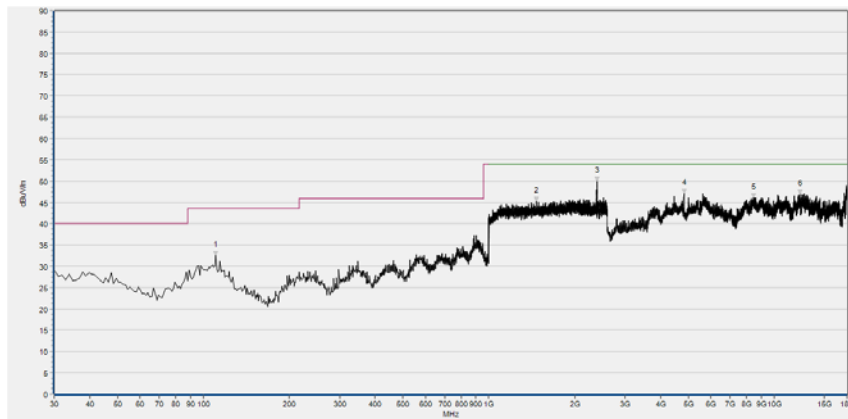


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	30.84	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1315.200	46.01	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2333.867	46.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4943.880	49.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9058.760	46.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12554.560	46.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

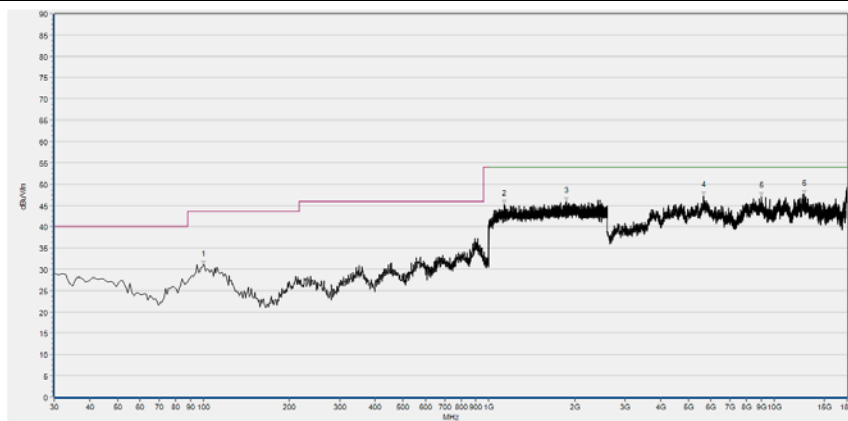
**802.11g Mode**

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	32.48	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1465.067	45.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2389.333	49.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4823.760	47.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8442.760	46.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12329.720	46.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

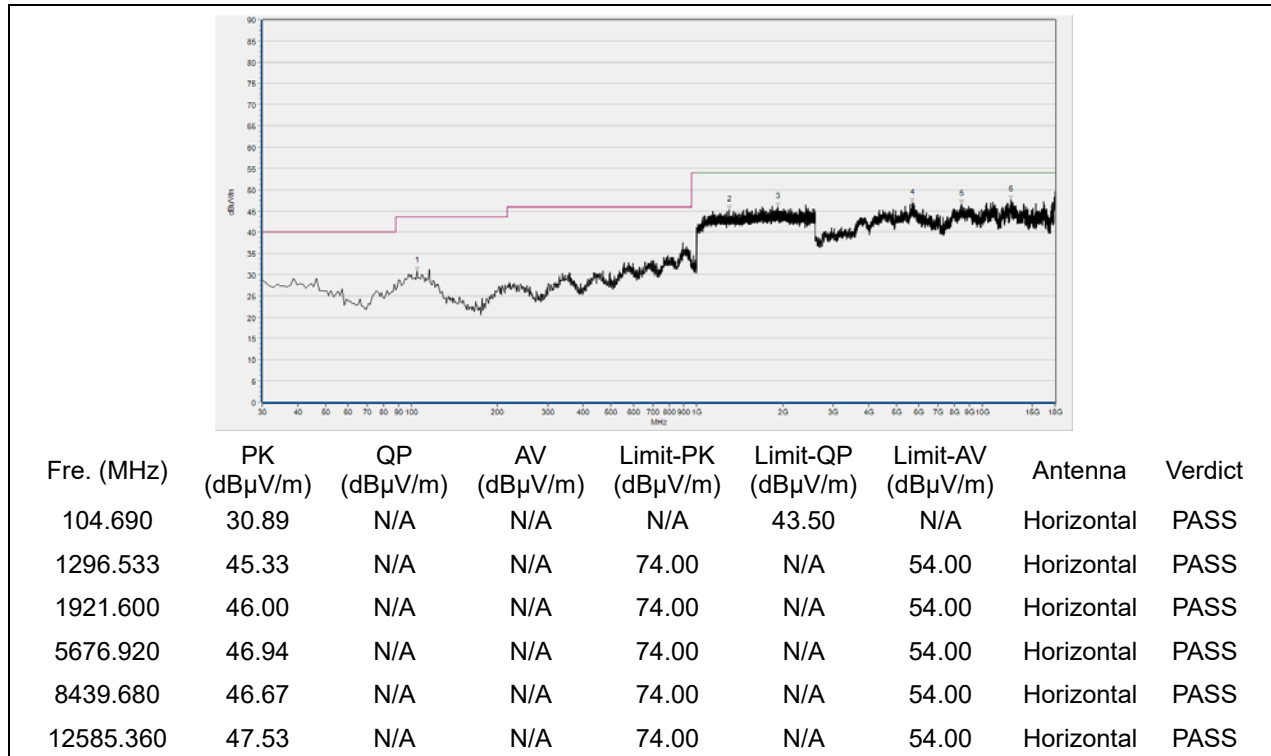
(Antenna Horizontal, 30MHz to 18GHz)



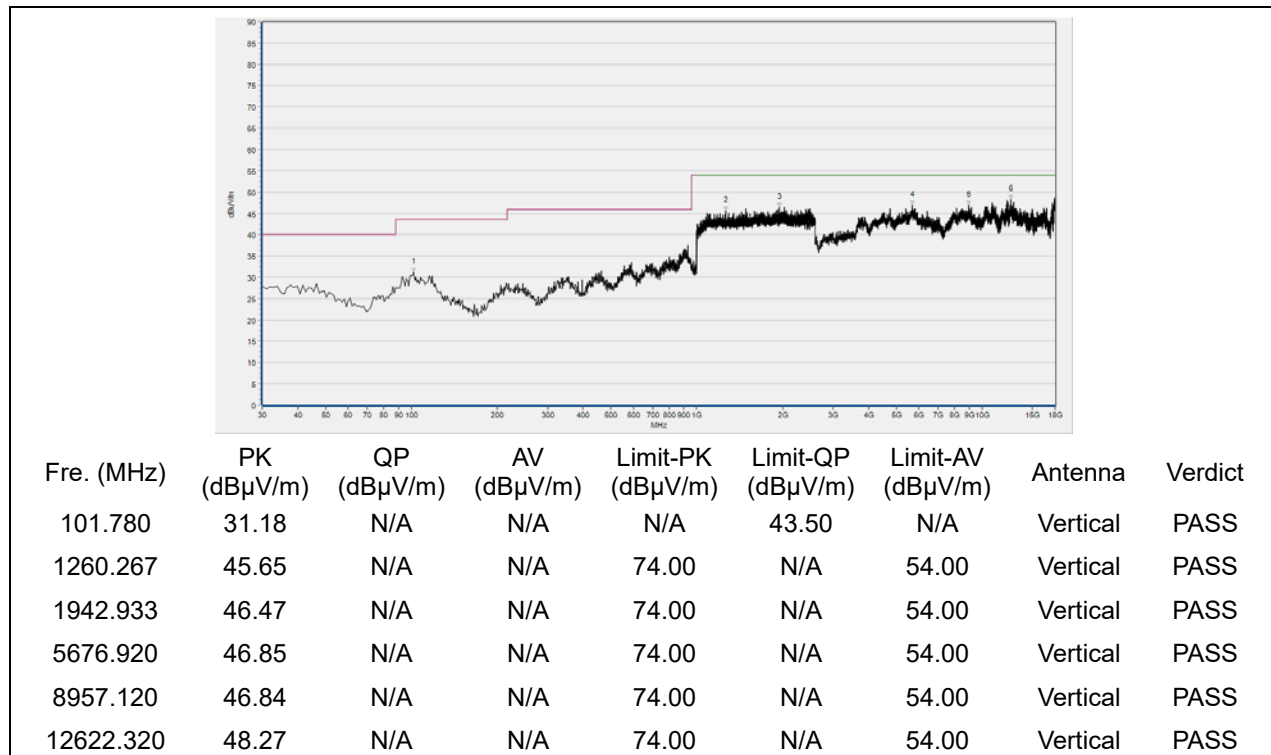
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	31.05	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1133.333	45.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1874.133	45.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5652.280	47.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9009.480	47.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12748.600	47.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 7

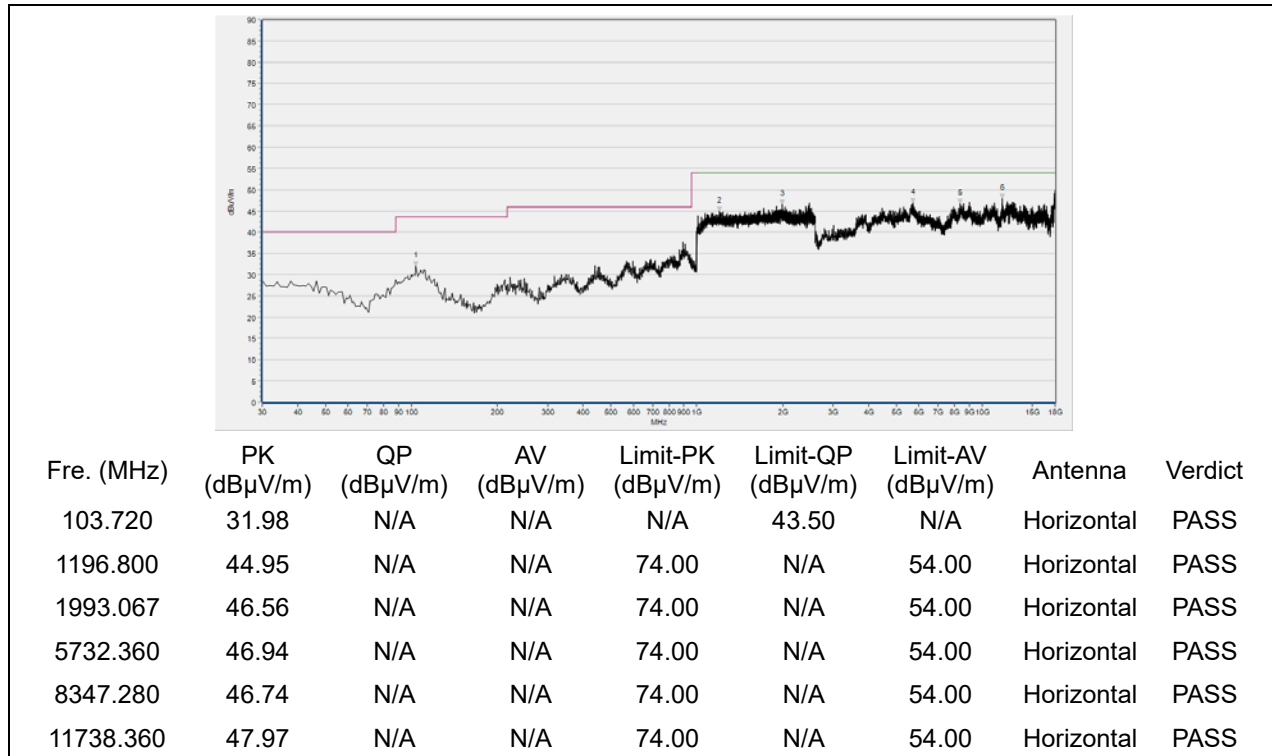


(Antenna Horizontal, 30MHz to 18GHz)

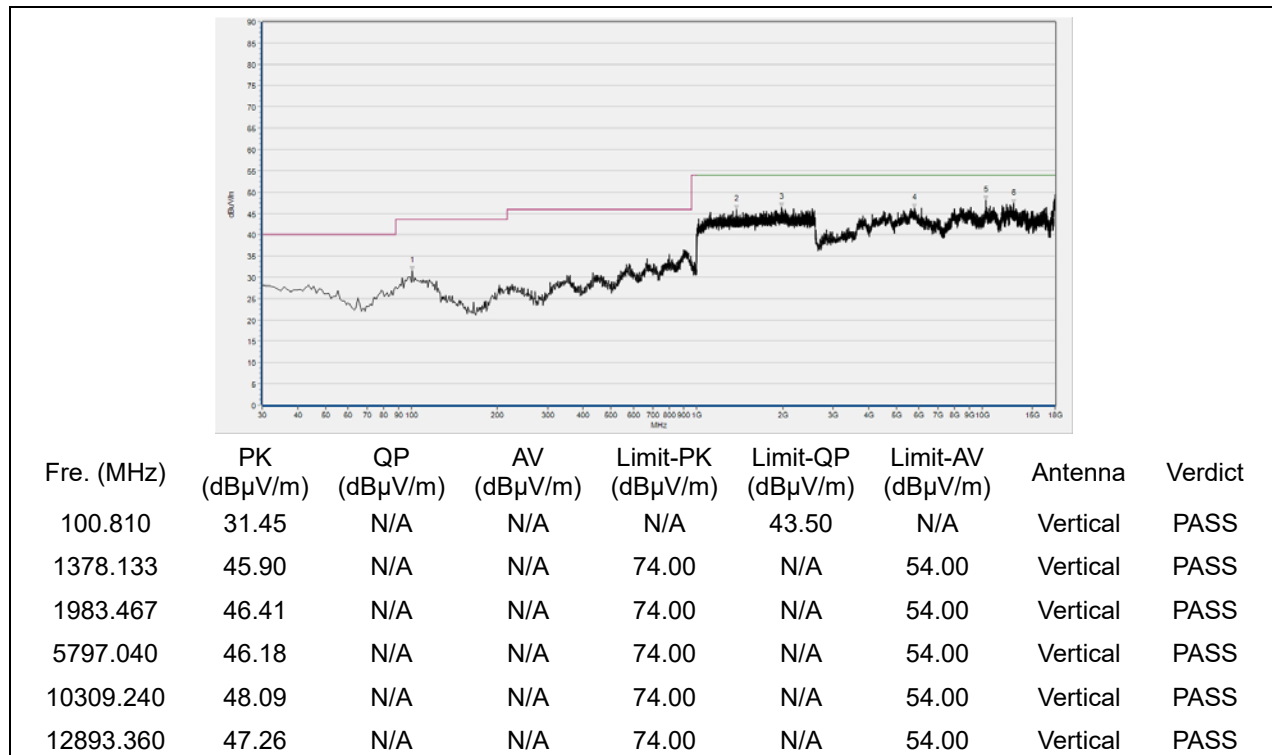


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 13



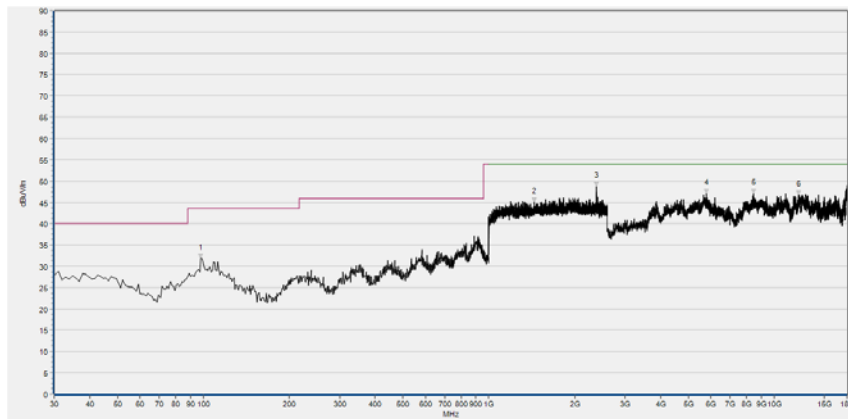
(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

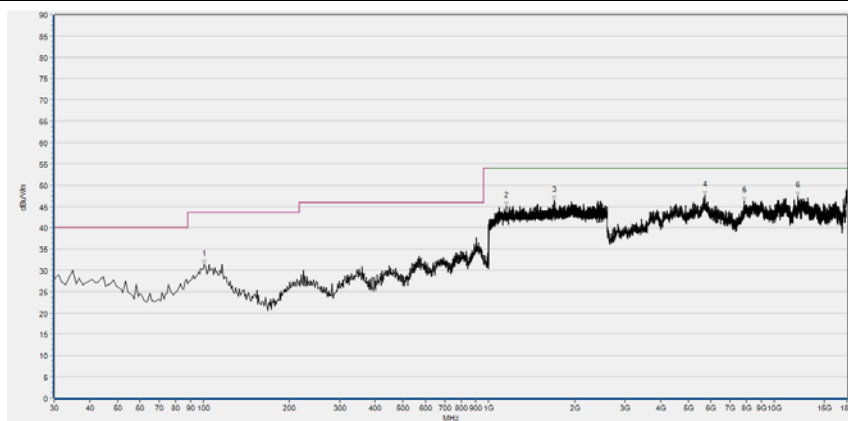
**802.11n (HT20) Mode**

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
97.900	31.77	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1440.533	45.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2385.600	48.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5784.720	47.13	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8476.640	47.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12138.760	46.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

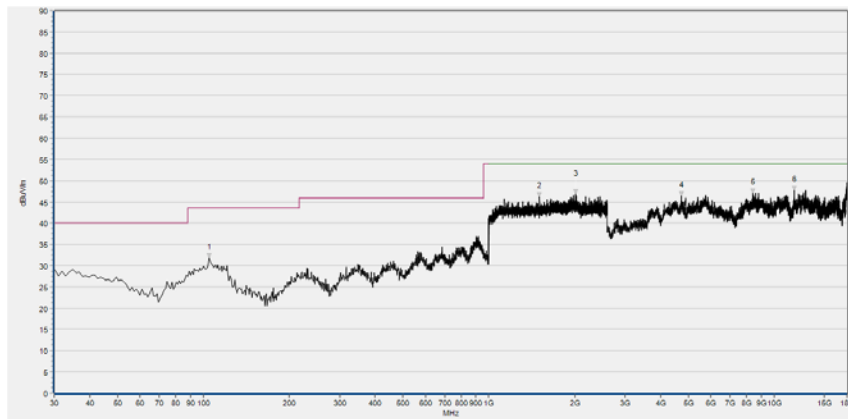


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	31.38	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1150.933	45.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1698.667	46.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5723.120	47.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7866.800	46.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12117.200	47.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

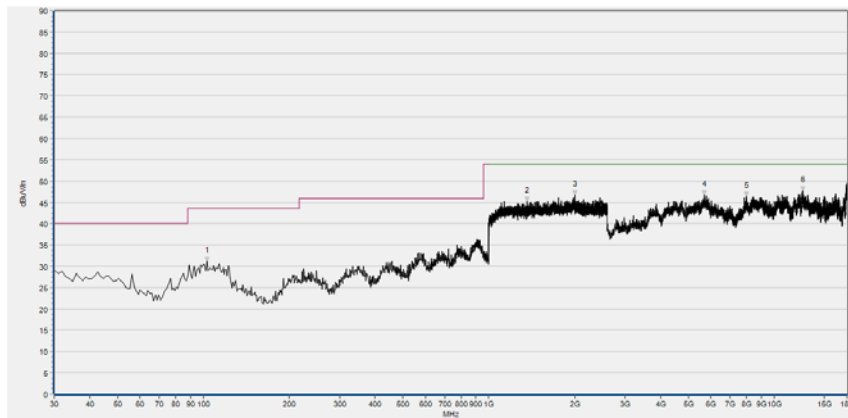


Plot for Channel 7



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.690	31.91	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1505.600	46.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2009.067	46.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4719.040	46.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8415.040	47.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11726.040	47.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

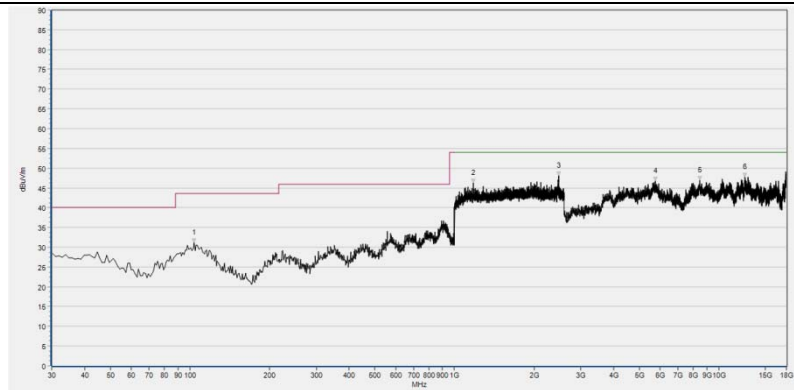


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	31.23	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1359.467	45.32	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2000.533	46.76	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5698.480	46.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7993.080	46.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12610.000	47.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

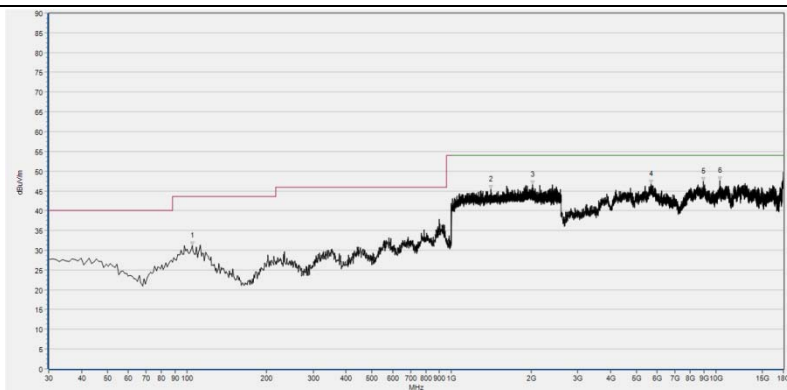


Plot for Channel 13



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.720	31.12	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1179.733	46.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2477.333	48.12	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5757.000	46.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8455.080	46.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12554.560	47.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.690	31.13	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1412.800	45.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2027.733	46.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5683.080	46.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8957.120	47.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10358.520	47.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT