




TEST REPORT

APPLICANT : Jinan USR IOT Technology Limited

PRODUCT NAME : WiFi module

MODEL NAME : WH-MT7628AN

BRAND NAME : 

FCC ID : 2ACZO-WH-MT7628AN

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2023-12-18

TEST DATE : 2023-12-22 to 2024-01-05

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Change History		
Version	Date	Reason for change
1.0	2024-01-22	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	Dec. 27, 2023	Zhong Yanshan	PASS	No deviation
3	15.247(b)	Maximum Peak Conducted Output Power	Dec. 27, 2023	Zhong Yanshan	PASS	No deviation
4	15.247(b)	Maximum Average Conducted Output Power	Dec. 27, 2023	Zhong Yanshan	PASS	No deviation
5	15.247(a)	Bandwidth	Dec. 27, 2023	Zhong Yanshan	PASS	No deviation
6	15.247(d)	Conducted Spurious Emission and Band Edge	Dec. 27, 2023	Zhong Yanshan	PASS	No deviation
7	15.247(e)	Power Spectral Density	Dec. 27, 2023	Zhong Yanshan	PASS	No deviation
8	15.207	Conducted Emission	Jan. 02, 2024	Wang Deyong	PASS	No deviation
9	15.247(d)	Restricted Frequency Bands	Jan. 05, 2024	Yang Lian	PASS	No deviation
10	15.209, 15.247(d)	Radiated Emission	Dec. 29, 2023	Yang Lian	PASS	No deviation

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

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

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



1.1. Testing Applied Standards

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

- 47 CFR Part 15 Subpart C Radio Frequency Devices



1.2. Test Equipment List

1.2.1 Conducted Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2023.02.27	2024.02.26
Power Sensor	MY54180008	U2021XA	Agilent	2023.10.17	2024.10.16
Attenuator	MTJ6004-20	VAT-10+	MTJ Cooperation	N/A	N/A
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	2023.02.09	2024.02.08
LISN	8127449	NSLK 8127	Schwarzbeck	2023.02.21	2024.02.20
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2023.06.27	2024.06.26
RF Coaxial Cable (DC-100MHz)	BNC	MRE04	Qualwave	N/A	N/A

1.2.3 List of Software Used

Description	Manufacturer	Software Version
Test System	MaiWei	2.0.0.0
TS+ -[JS36-RSE]	Tonscend	3.0.0.0
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	2023.06.21	2024.06.20
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2023.07.01	2024.06.30
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2023.06.26	2024.06.25
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2023.07.01	2024.06.30
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2023.07.01	2024.06.30
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2023.06.26	2024.06.27
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2023.06.26	2024.06.27
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2023.07.04	2024.07.03
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-K K-0.5	Qualwave	2023.07.04	2024.07.03
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-K KF-2	Qualwave	2023.07.04	2024.07.03
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-N N-5	Qualwave	2023.07.04	2024.07.03
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09



1.3. Measurement Uncertainty

Test Items	Uncertainty	Remark
Peak Output Power	±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

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



2. General Description

2.1. Information of Applicant and Manufacturer

Applicant	Jinan USR IOT Technology Limited
Applicant Address	Floor F1 & Part of Floor F2, Building No. 9, Diya shuang chuang Industrial Zone, No.2566, Century Main Road, Gaoxin District Jinan, Shandong China
Manufacturer	Jinan USR IOT Technology Limited
Manufacturer Address	Floor F1 & Part of Floor F2, Building No. 9, Diya shuang chuang Industrial Zone, No.2566, Century Main Road, Gaoxin District Jinan, Shandong China

2.2. Information of EUT

Product Name:	WiFi module
Sample No.:	1#
Hardware Version:	V2.1.00
Software Version:	V20.0.0
Modulation Technology:	DSSS, OFDM
Modulation Type:	Refer to section 1.3
Wireless Technology:	802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40)
Operating Frequency Range:	2412MHz–2462MHz
Antenna Type:	External Antenna
Antenna Gain:	5.62dBi

Note 1: We use the dedicated software to control the EUT continuous transmission.

Note 2: 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		
	6	2437		
	7	2442		
Test Mode	Channel	Frequency (MHz)	Channel	Frequency (MHz)
802.11n (HT40)	3	2422	8	2447
	4	2427	9	2452
	5	2432		
	6	2437		
	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

Mode	Bandwidth (MHz)	Modulation Technology	Modulation Type	Data Rate	RU Size
802.11b	20	DSSS	DBPSK	1/2/5.5/11Mbps	N/A
			DQPSK		
			CCK		
802.11g	20	OFDM	BPSK	6/9/12/18/24/36/48/54 Mbps	N/A
			QPSK		
			16QAM		
			64QAM		
802.11n	20/40 (HT20/40)	OFDM	BPSK	MCS0~MCS7	N/A
			QPSK		
			16QAM		
			64QAM		

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.

Note2: The RF signal transmission of EUT is controlled by the build-in engineering mode which is provided by the manufacturer. The recorded power setting value is the maximum that the engineering mode has configuration during testing.

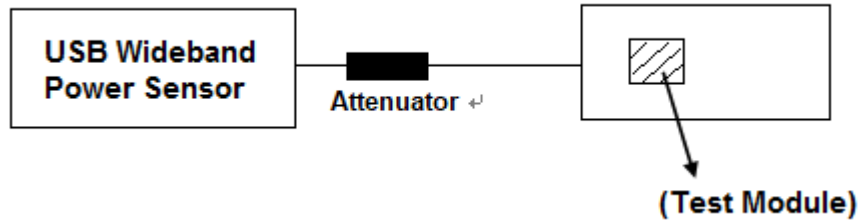
2.5. Test Conditions

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

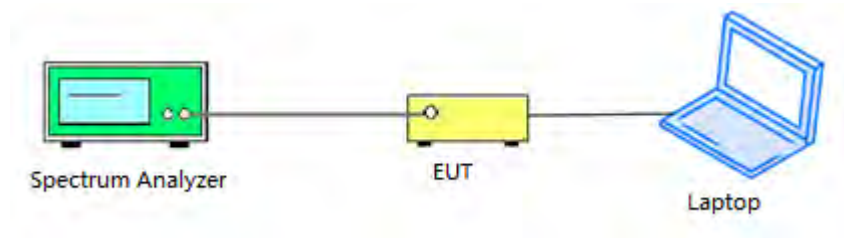
2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement

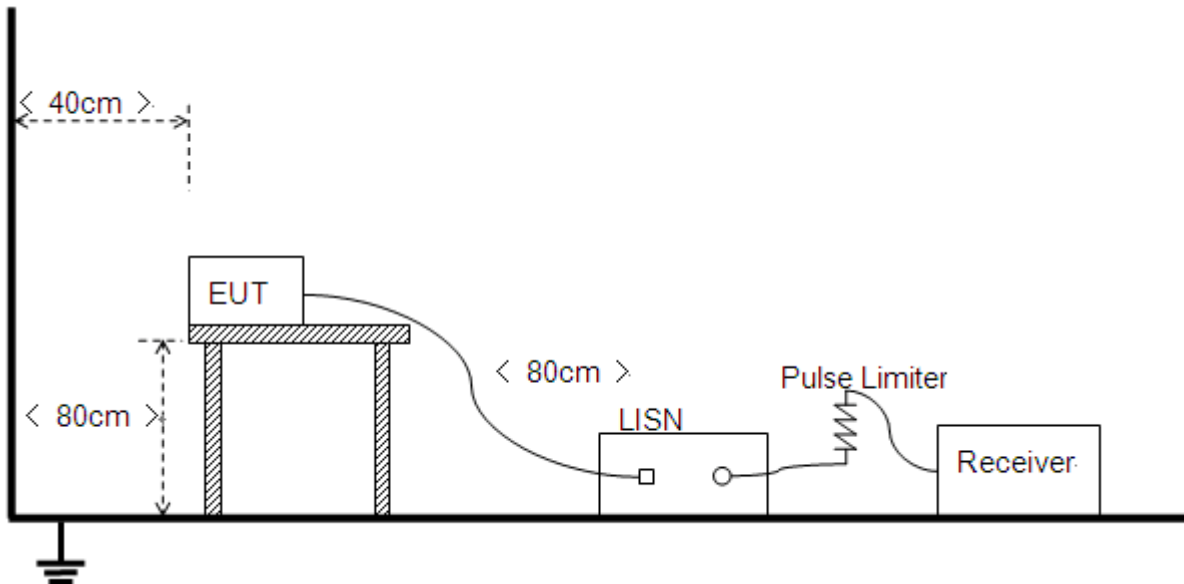
Power item



Other items

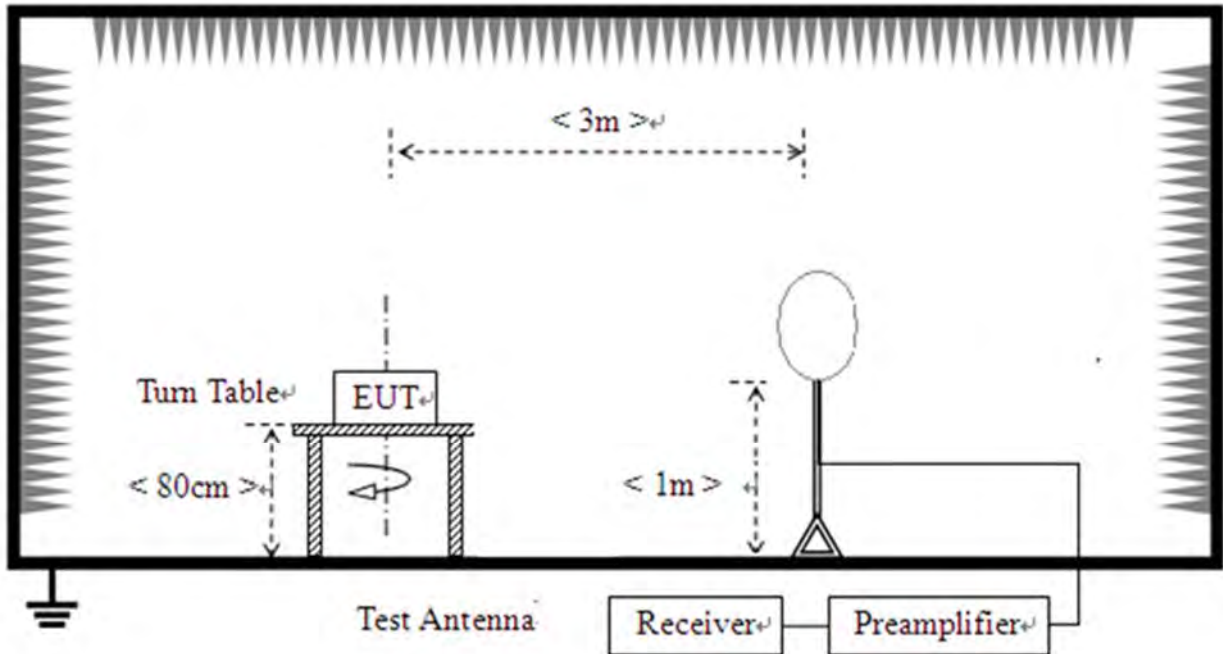


2.6.2. Conducted Emission Measurement

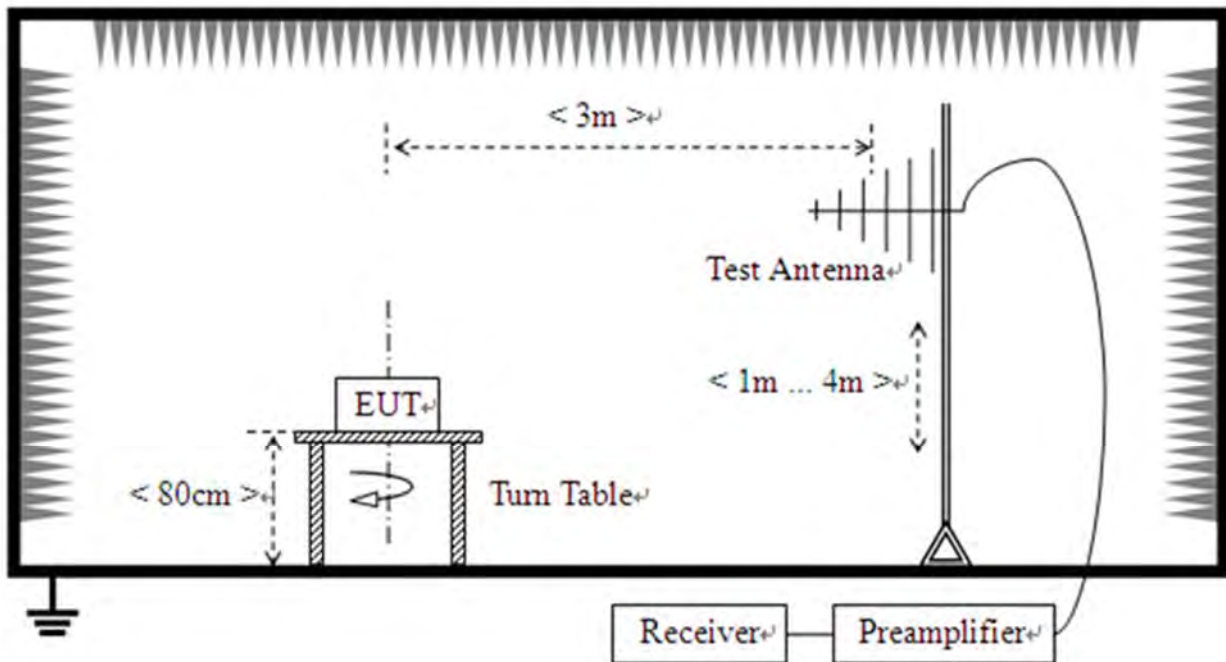


2.6.3. Radiation Measurement

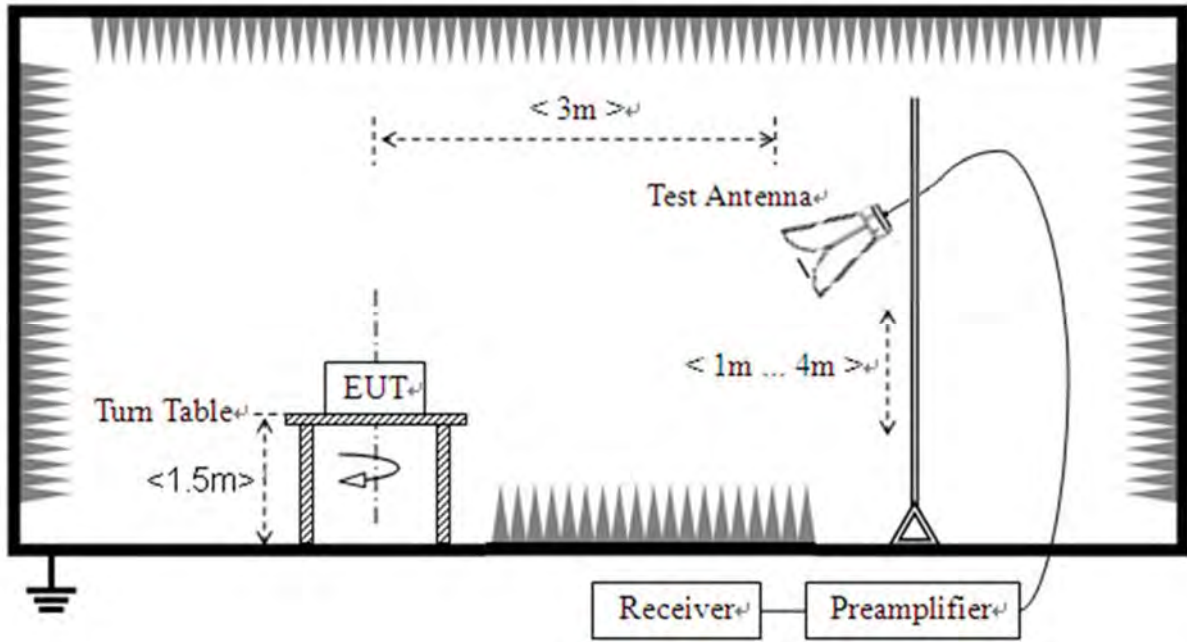
1) For radiated emissions from 9kHz to 30MHz



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

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal 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

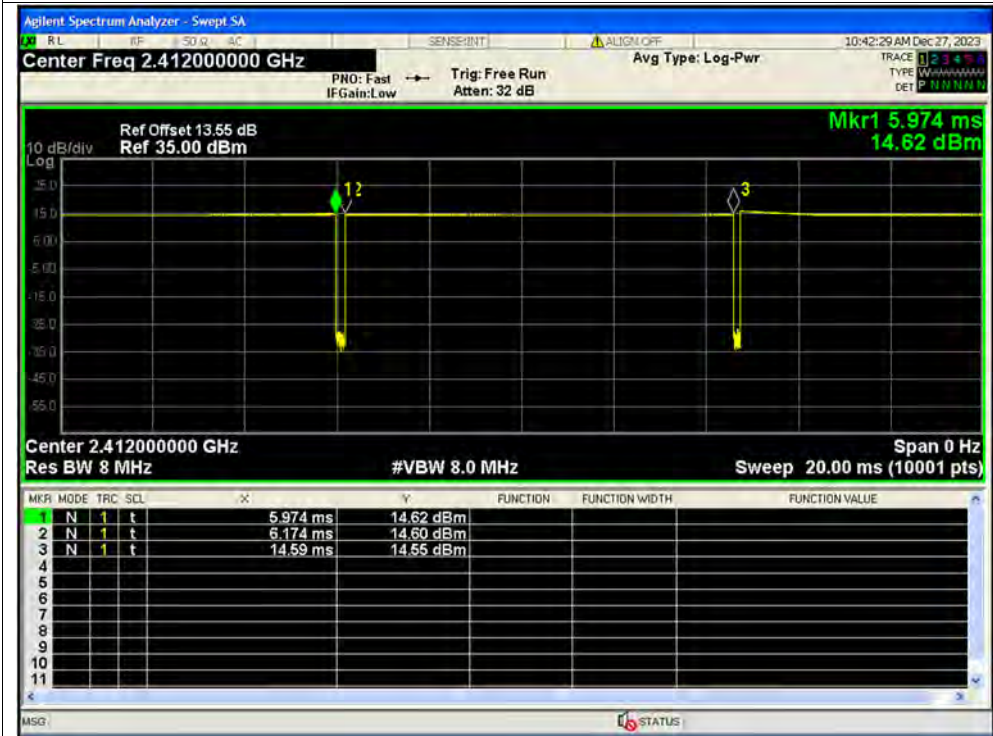
A.1. Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	97.68	0.1	0.12
NVNT	b	2437	Ant1	97.07	0.13	0.12
NVNT	b	2462	Ant1	98.11	0.08	0.12
NVNT	g	2412	Ant1	86.71	0.62	0.72
NVNT	g	2437	Ant1	85.35	0.69	0.72
NVNT	g	2462	Ant1	85.75	0.67	0.72
NVNT	n20	2412	Ant1	83.42	0.79	0.76
NVNT	n20	2437	Ant1	82.58	0.83	0.76
NVNT	n20	2462	Ant1	85.94	0.66	0.76
NVNT	n40	2422	Ant1	79.41	1	1.54
NVNT	n40	2437	Ant1	73.64	1.33	1.54
NVNT	n40	2452	Ant1	77.51	1.11	1.54

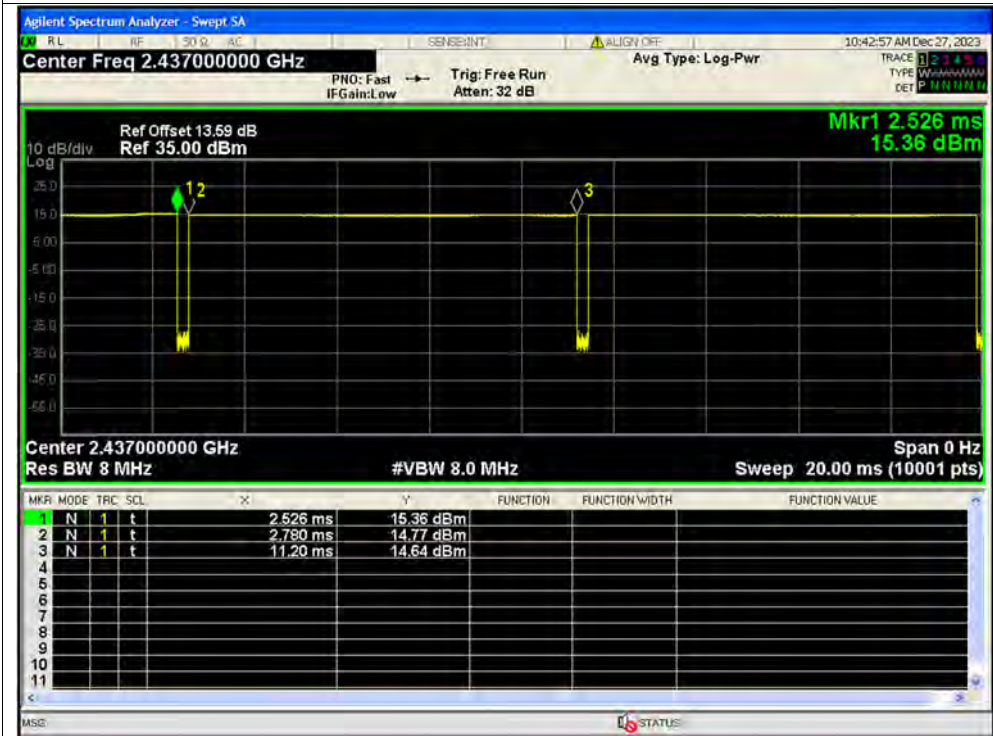


Test Graphs

Duty Cycle NVNT b 2412MHz Ant1

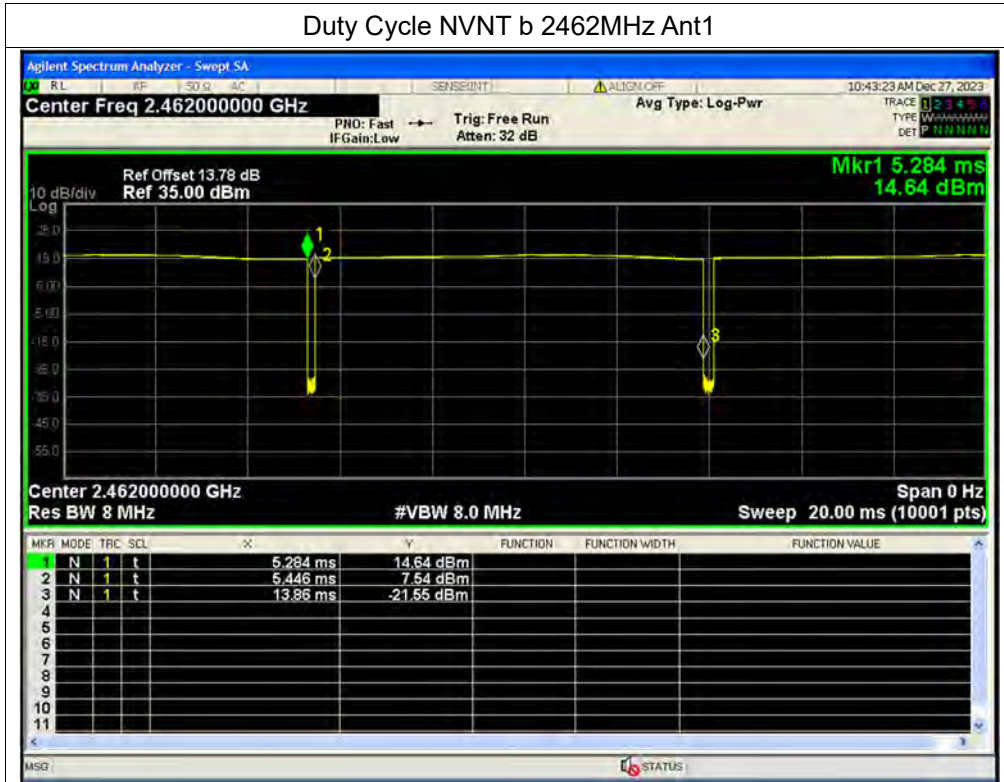


Duty Cycle NVNT b 2437MHz Ant1

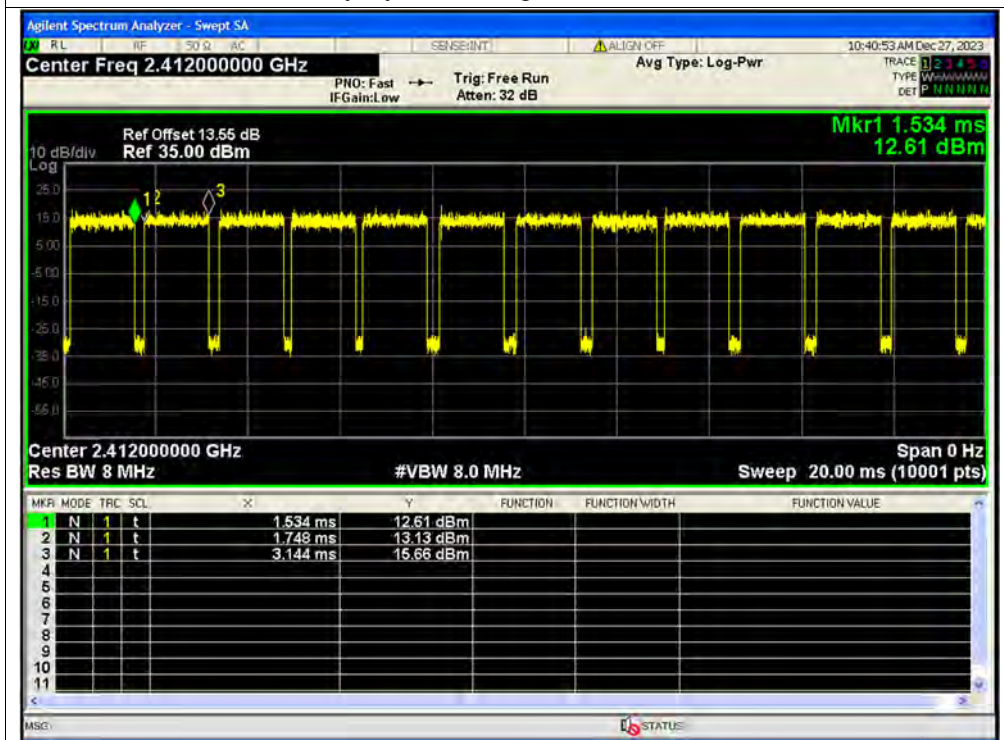




Duty Cycle NVNT b 2462MHz Ant1

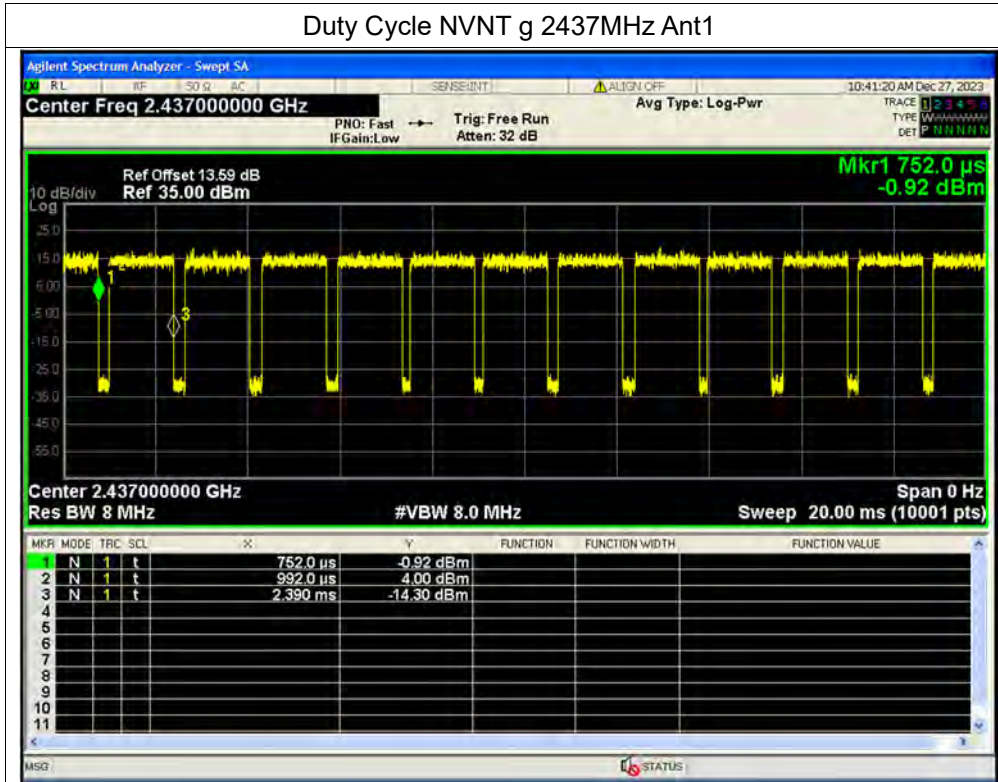


Duty Cycle NVNT g 2412MHz Ant1

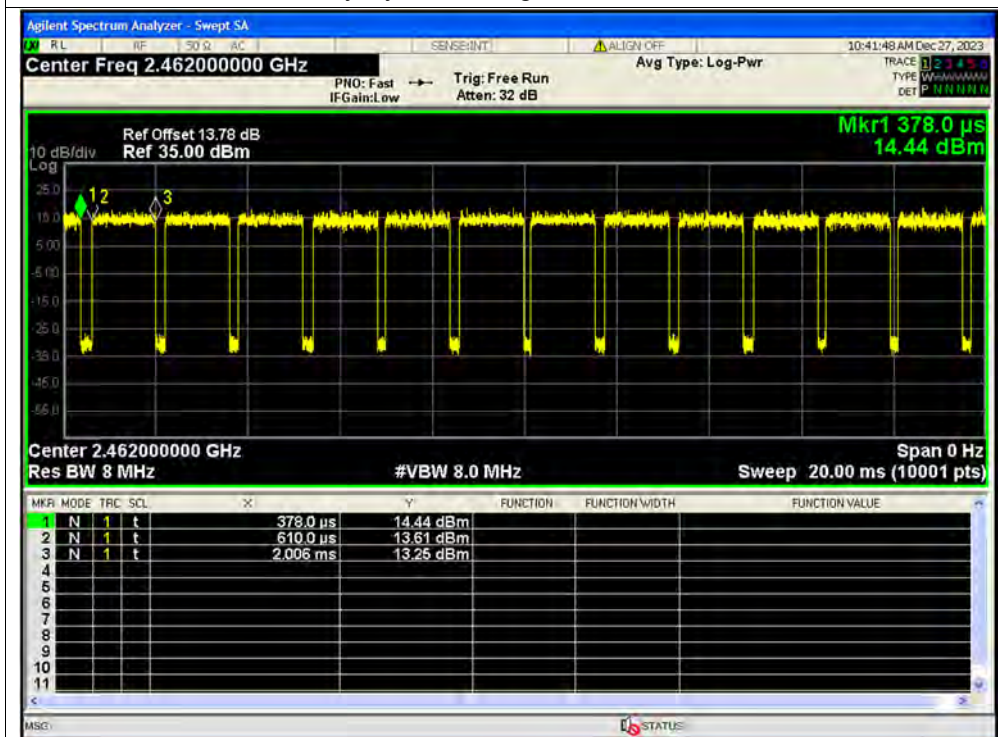




Duty Cycle NVNT g 2437MHz Ant1

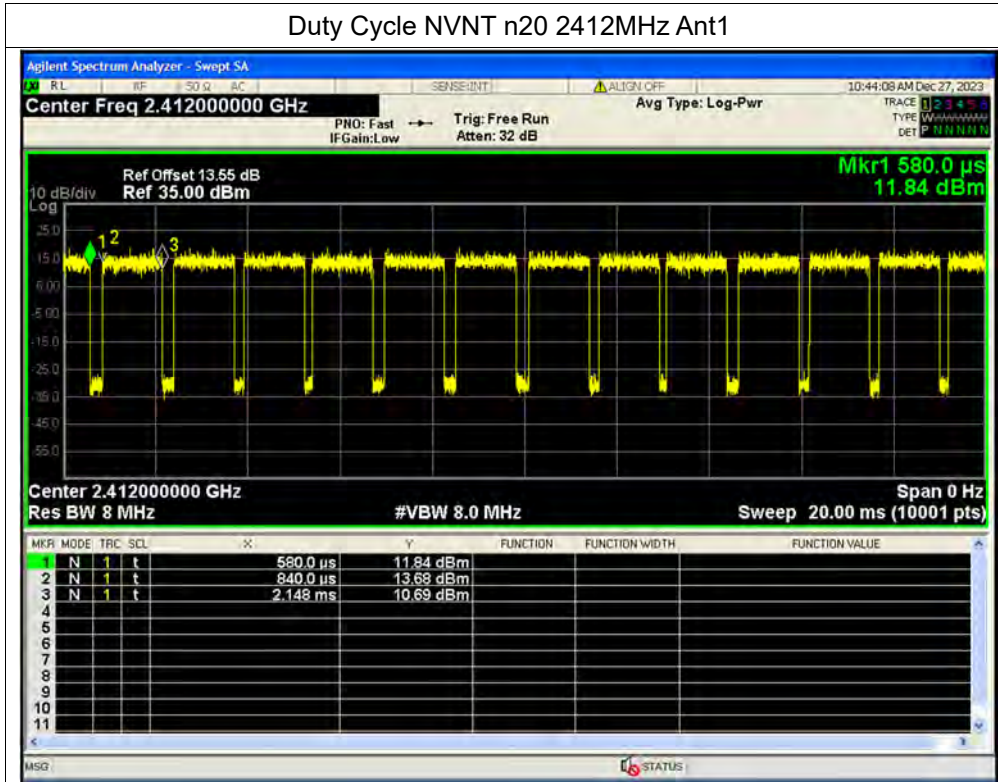


Duty Cycle NVNT g 2462MHz Ant1

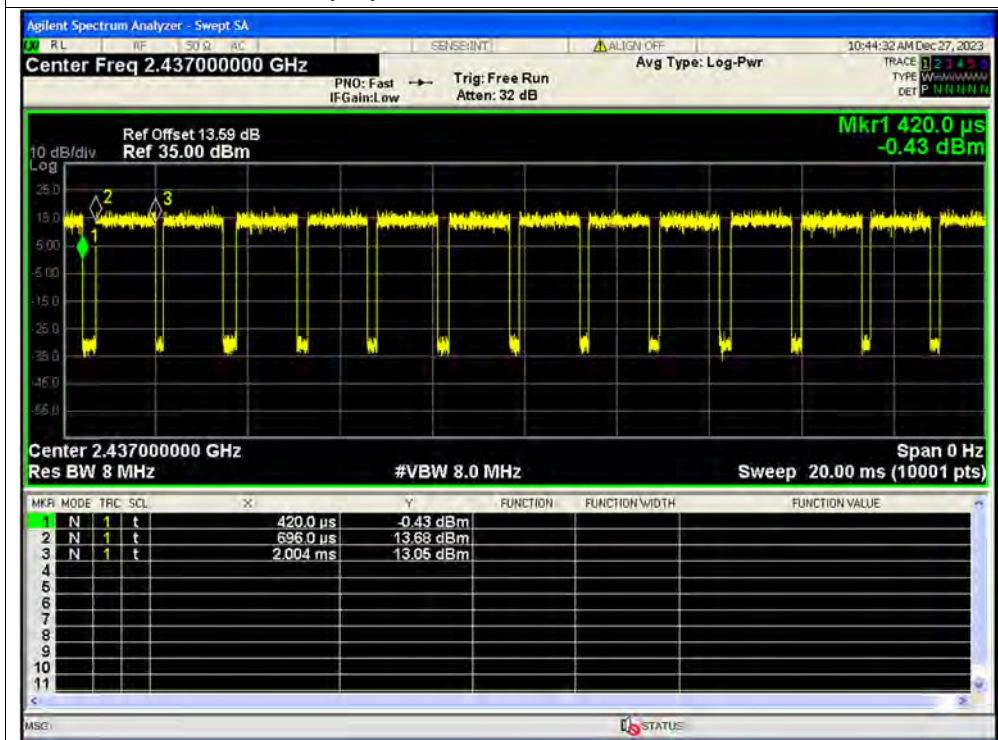




Duty Cycle NVNT n20 2412MHz Ant1

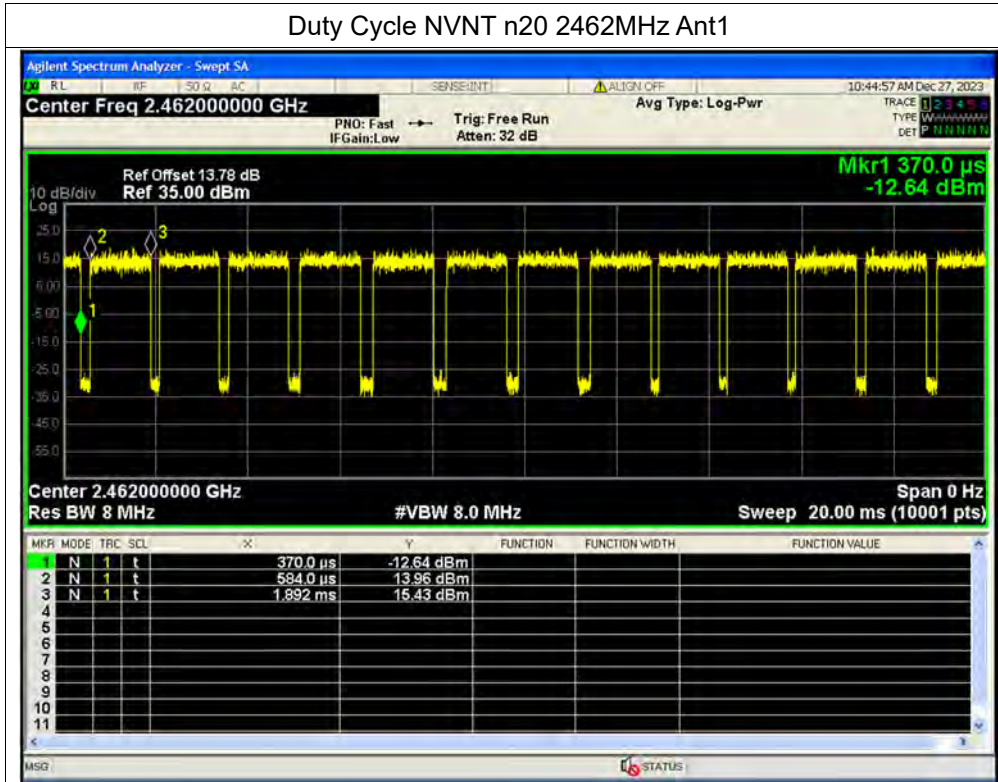


Duty Cycle NVNT n20 2437MHz Ant1

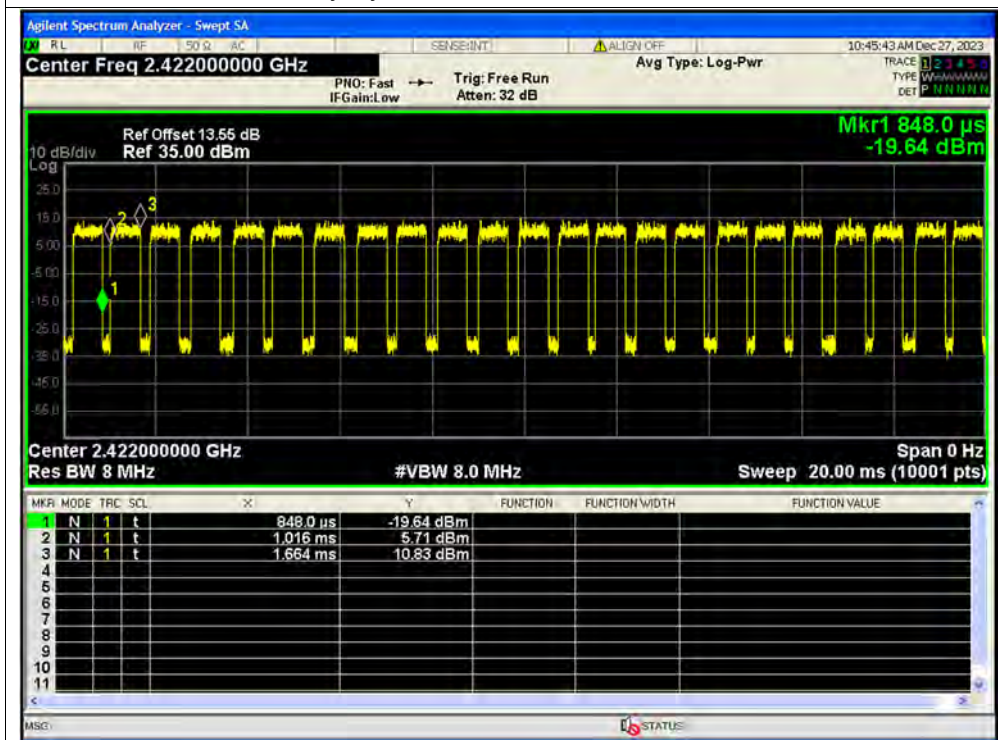




Duty Cycle NVNT n20 2462MHz Ant1

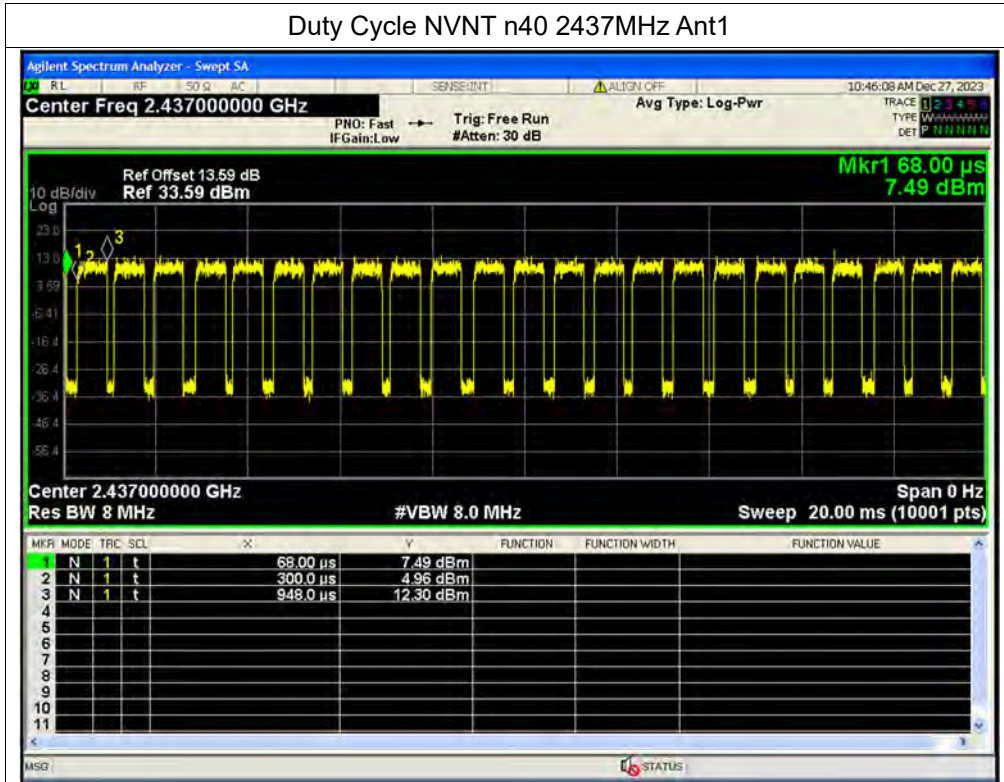


Duty Cycle NVNT n40 2422MHz Ant1

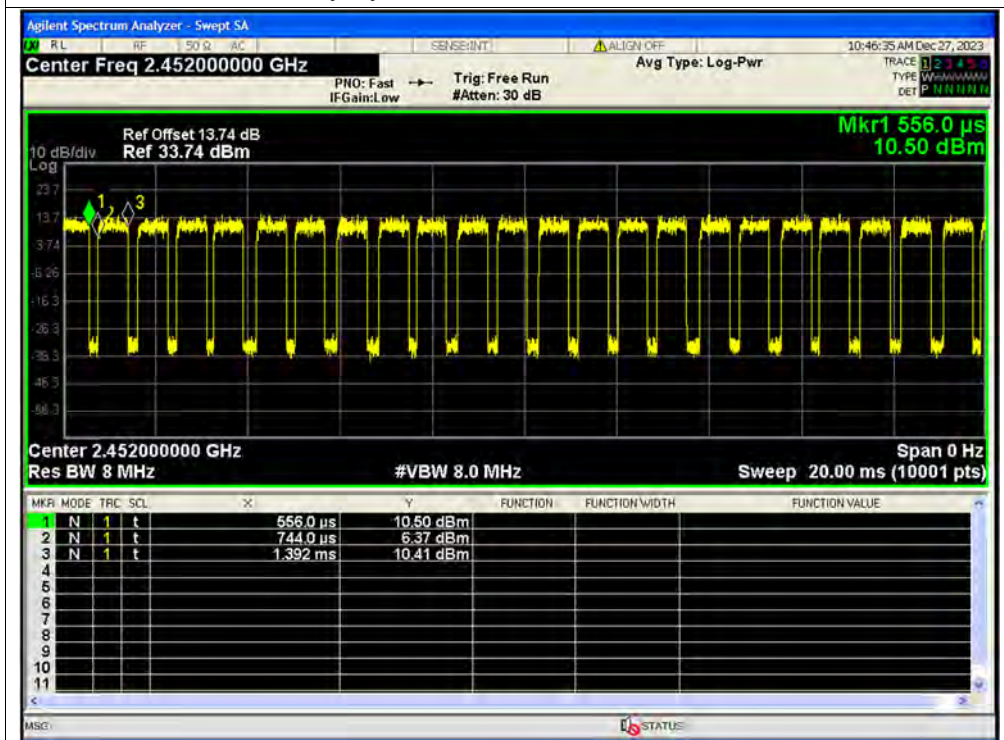




Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1



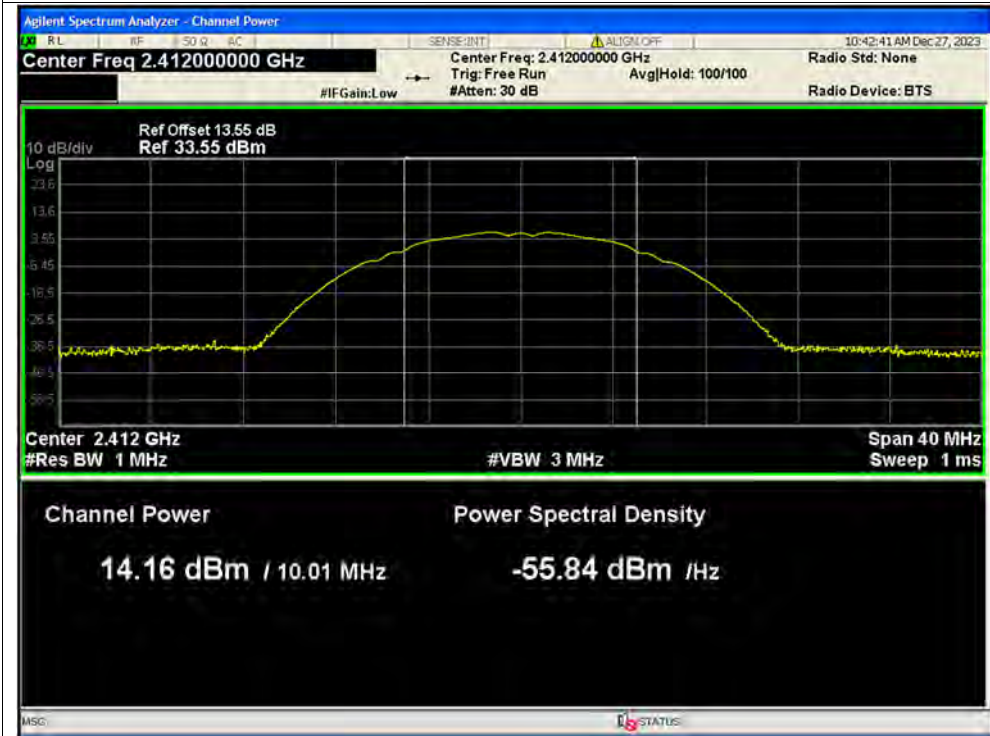
**A.2. Maximum Peak Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	b	2412	Ant1	14.16	0	14.16	0.02606	30	Pass
NVNT	b	2437	Ant1	14.01	0	14.01	0.02518	30	Pass
NVNT	b	2462	Ant1	14.41	0	14.41	0.02761	30	Pass
NVNT	g	2412	Ant1	18.04	0	18.04	0.06368	30	Pass
NVNT	g	2437	Ant1	17.97	0	17.97	0.06266	30	Pass
NVNT	g	2462	Ant1	18.14	0	18.14	0.06516	30	Pass
NVNT	n20	2412	Ant1	17.99	0	17.99	0.06295	30	Pass
NVNT	n20	2437	Ant1	18.04	0	18.04	0.06368	30	Pass
NVNT	n20	2462	Ant1	18.18	0	18.18	0.06577	30	Pass
NVNT	n40	2422	Ant1	17.57	0	17.57	0.05715	30	Pass
NVNT	n40	2437	Ant1	17.56	0	17.56	0.05702	30	Pass
NVNT	n40	2452	Ant1	17.7	0	17.7	0.05888	30	Pass

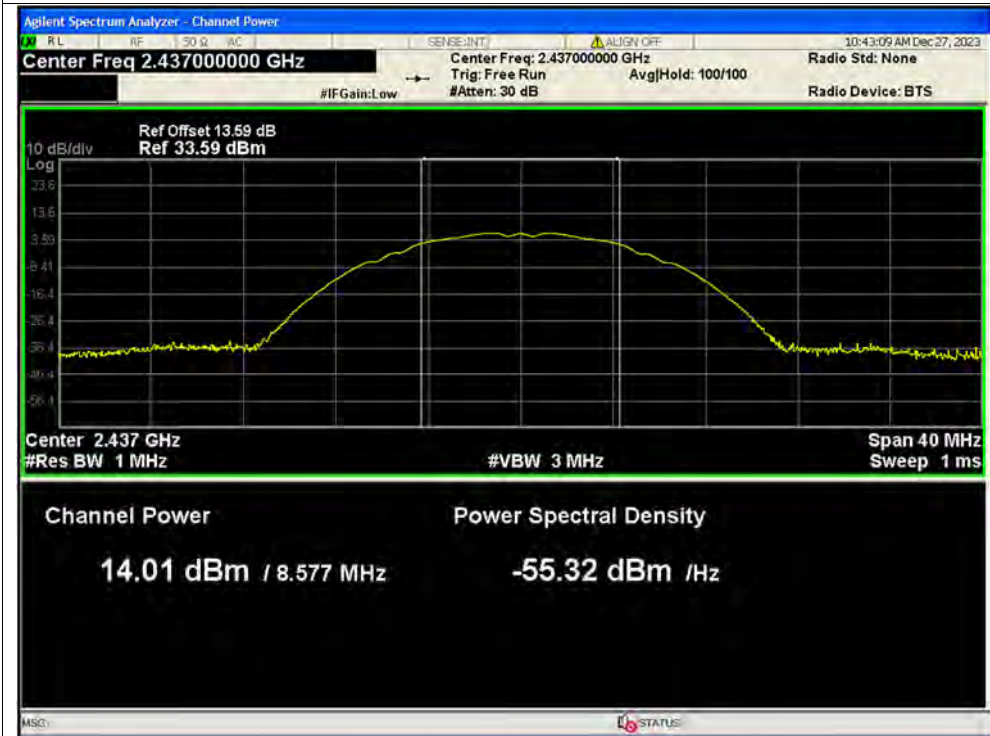


Test Graphs

Peak Power NVNT b 2412MHz Ant1

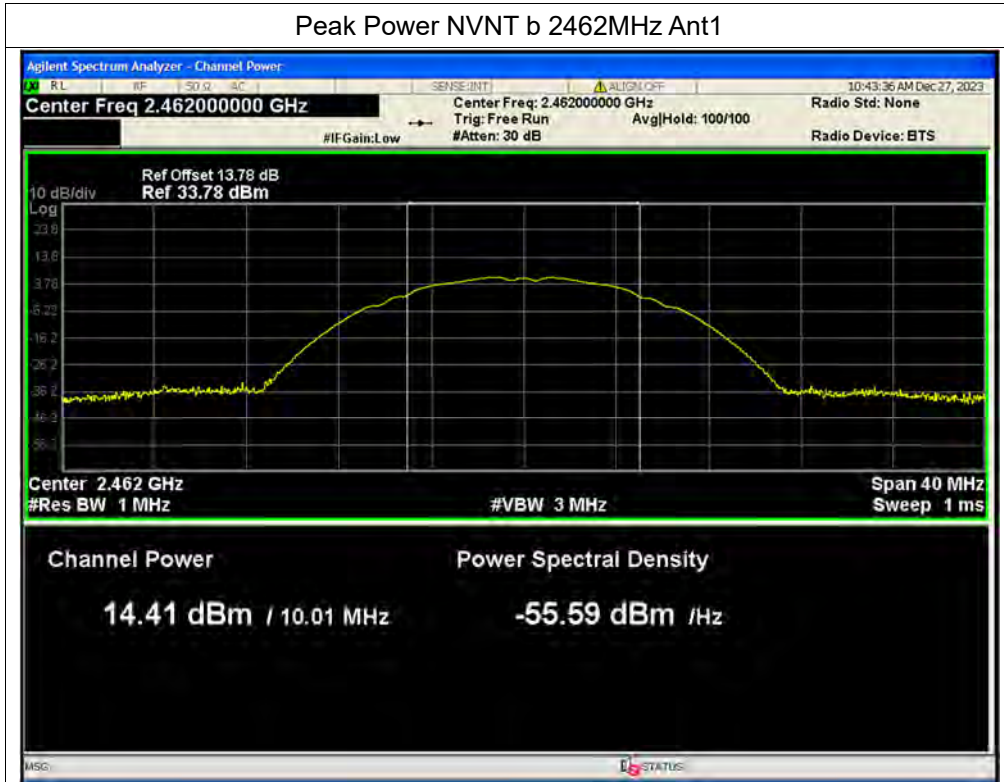


Peak Power NVNT b 2437MHz Ant1

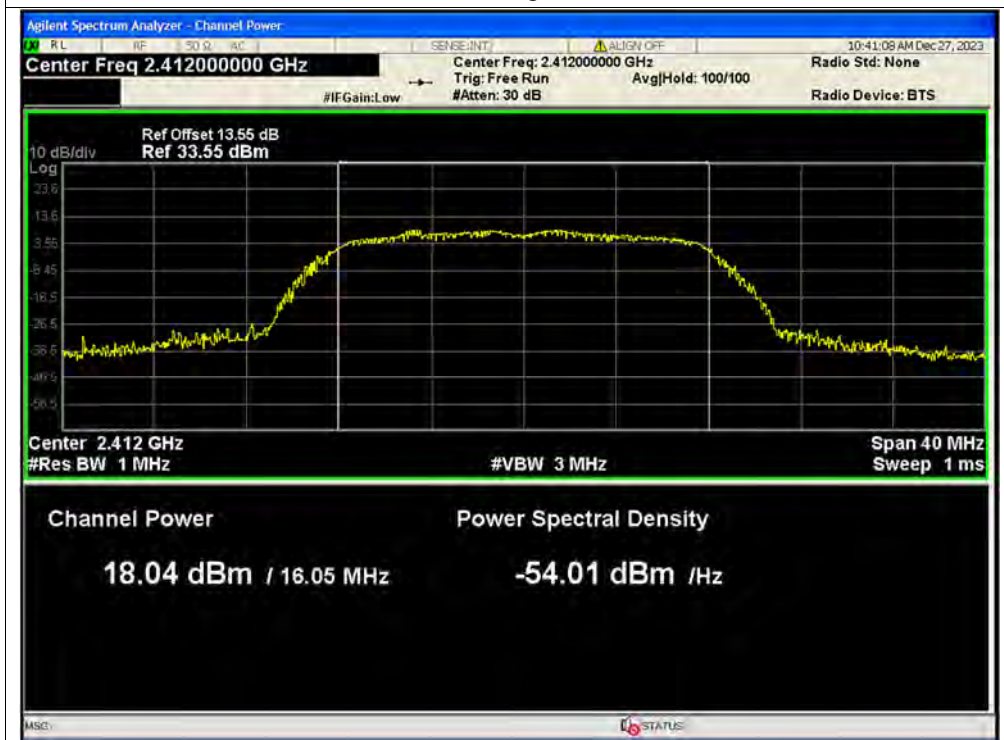




Peak Power NVNT b 2462MHz Ant1

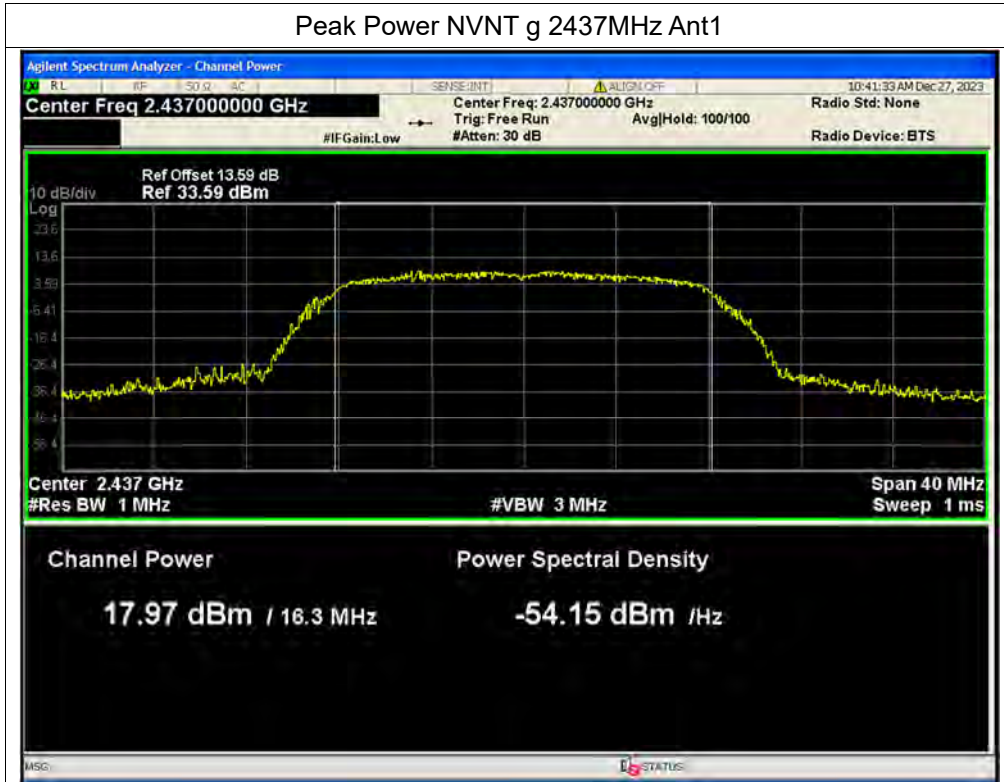


Peak Power NVNT g 2412MHz Ant1

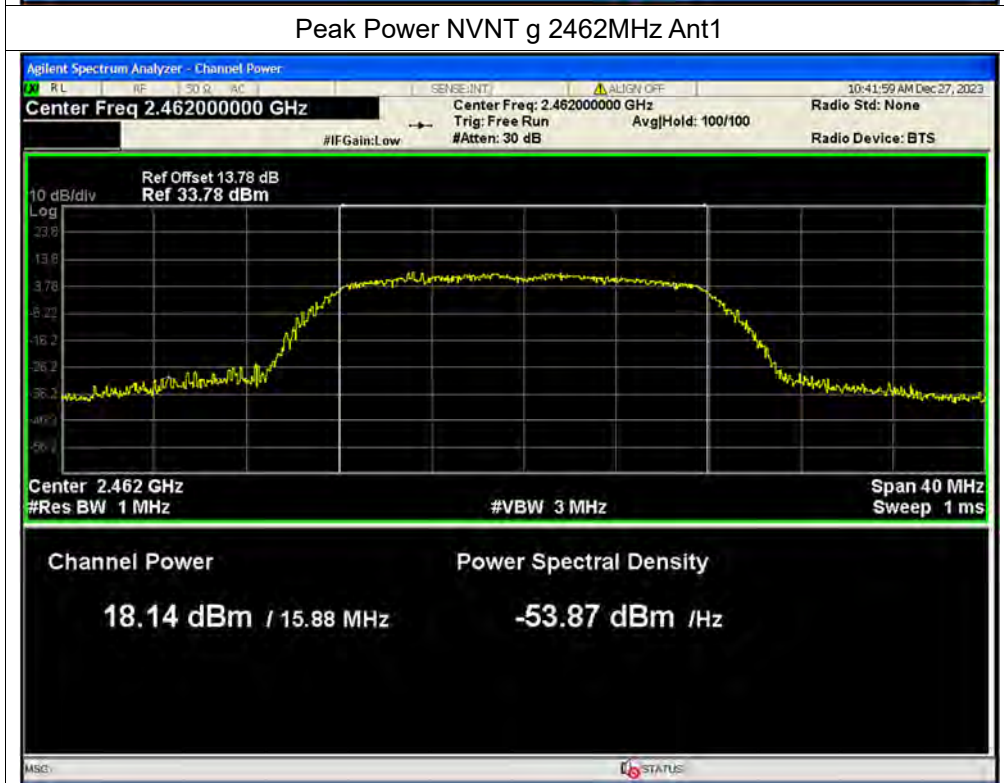




Peak Power NVNT g 2437MHz Ant1

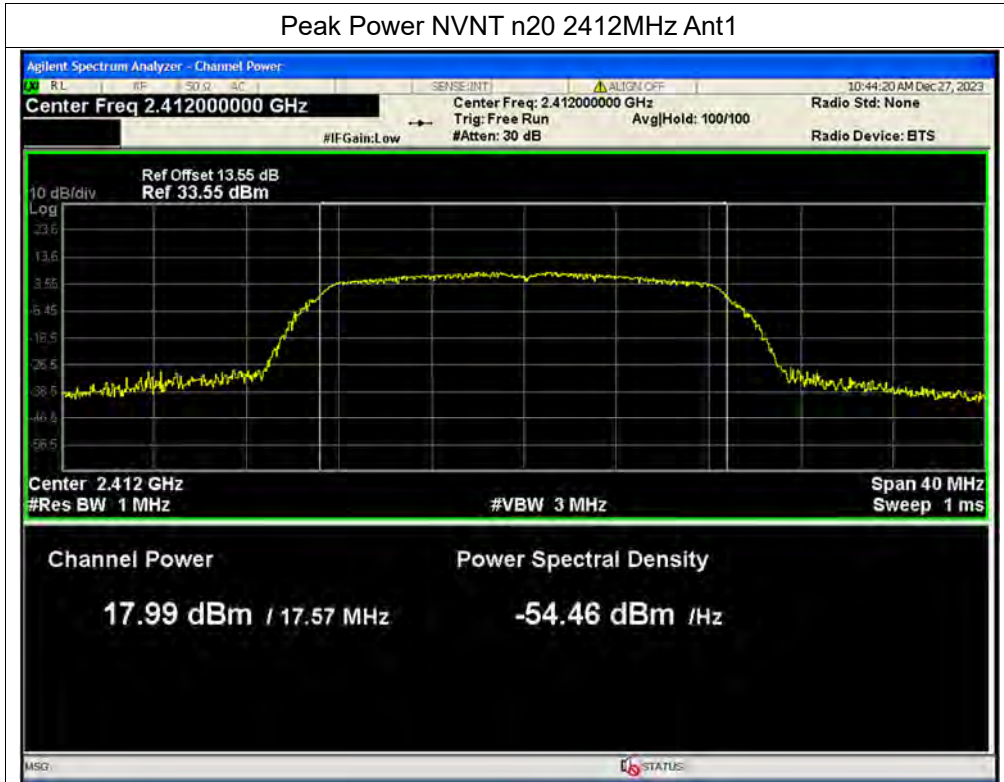


Peak Power NVNT g 2462MHz Ant1

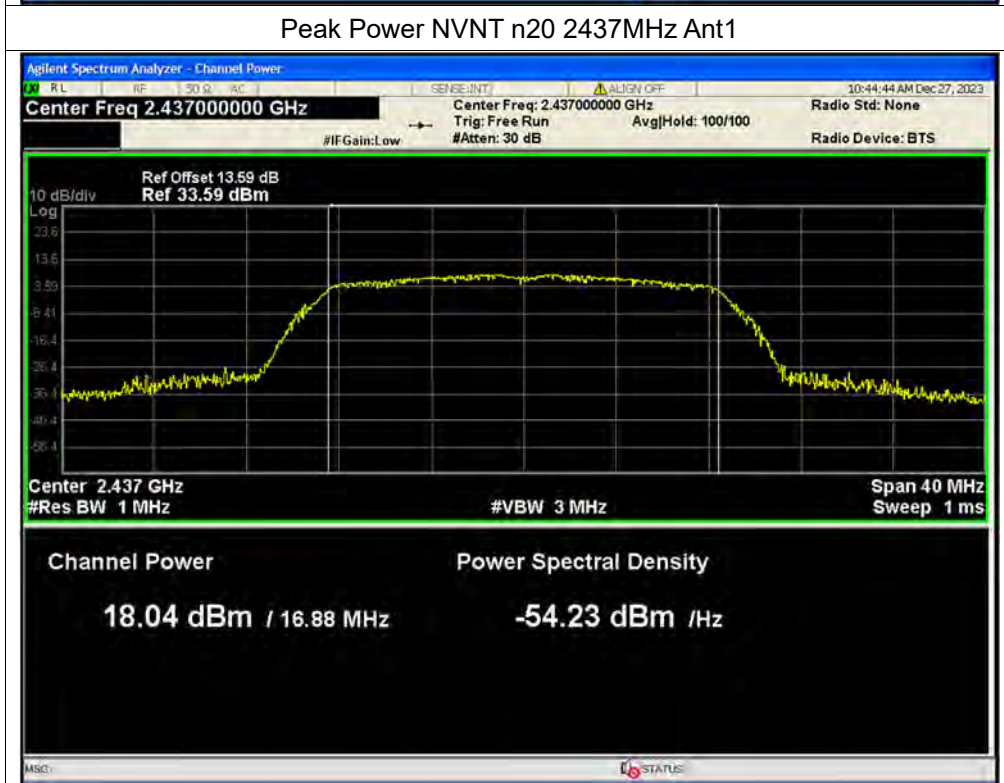




Peak Power NVNT n20 2412MHz Ant1

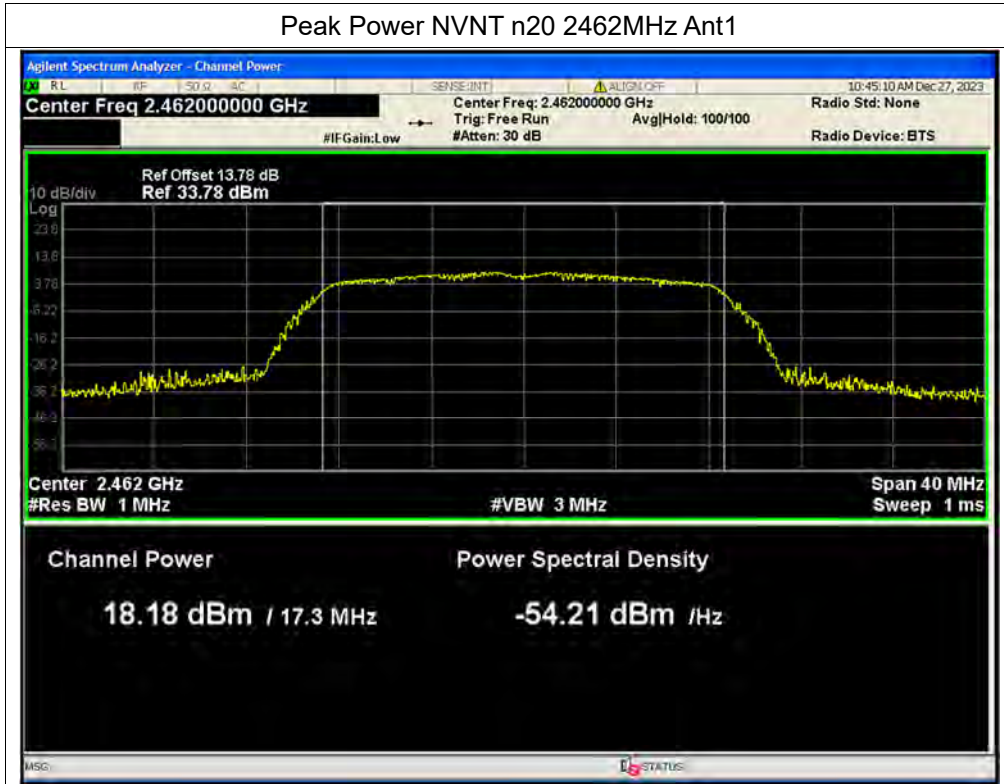


Peak Power NVNT n20 2437MHz Ant1

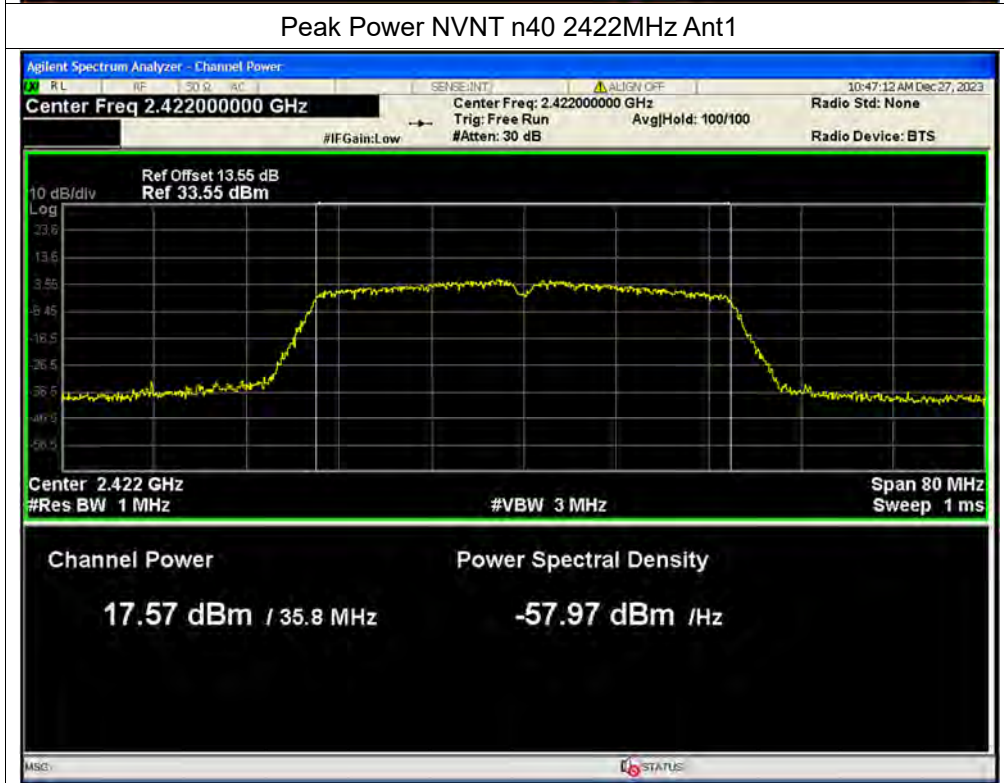




Peak Power NVNT n20 2462MHz Ant1

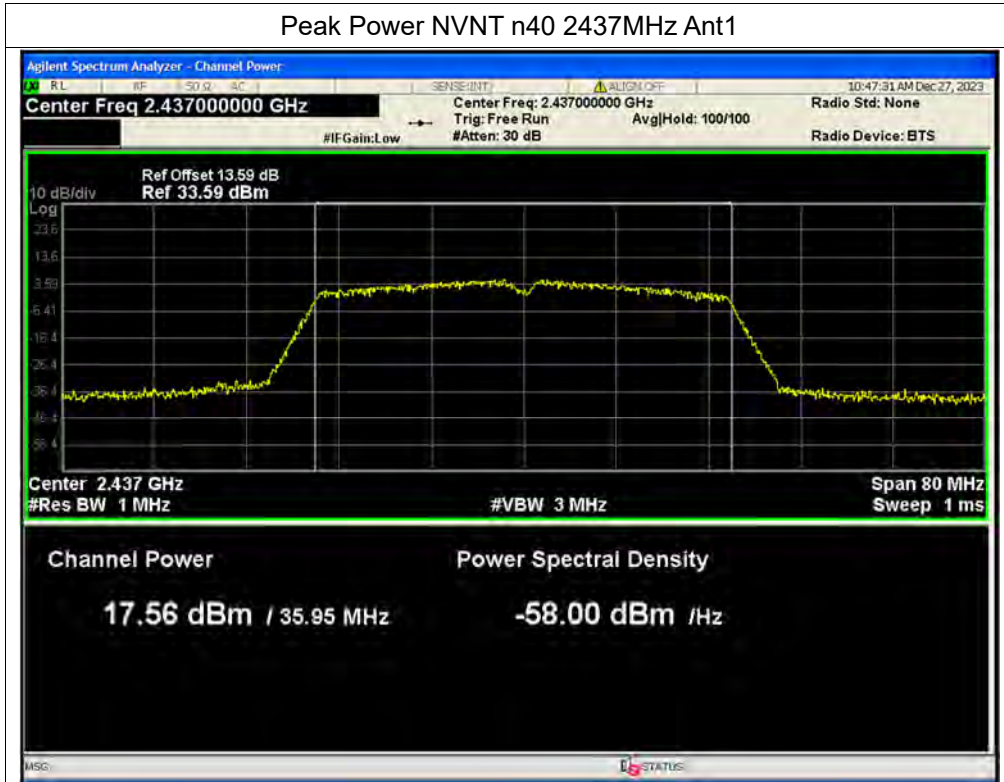


Peak Power NVNT n40 2422MHz Ant1

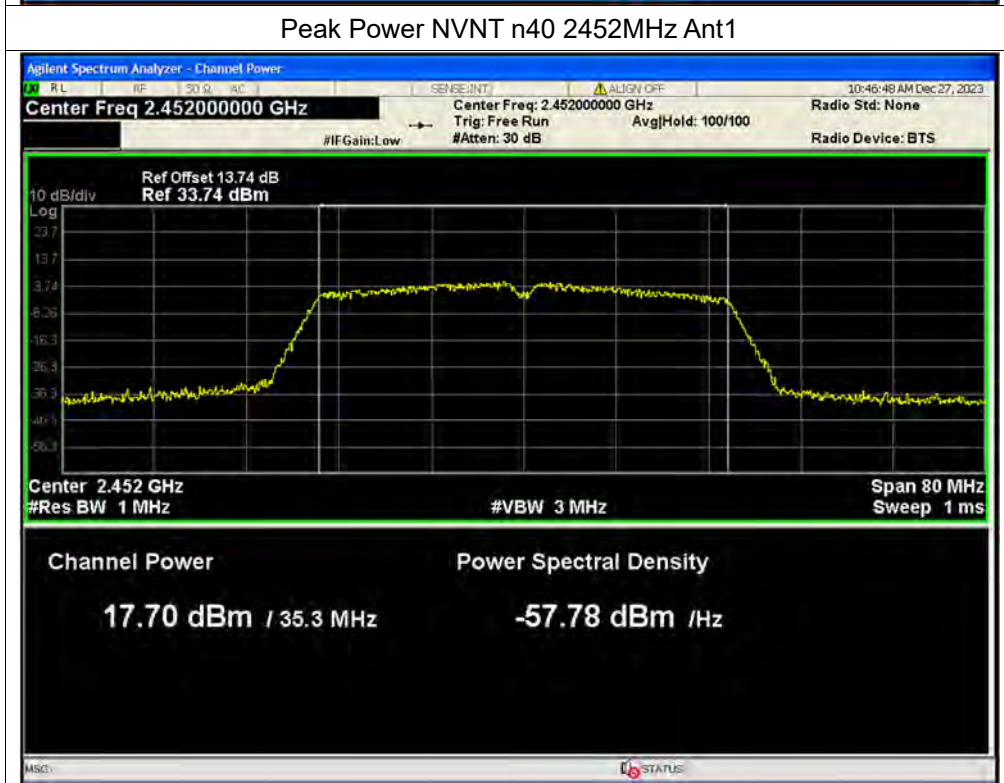




Peak Power NVNT n40 2437MHz Ant1



Peak Power NVNT n40 2452MHz Ant1



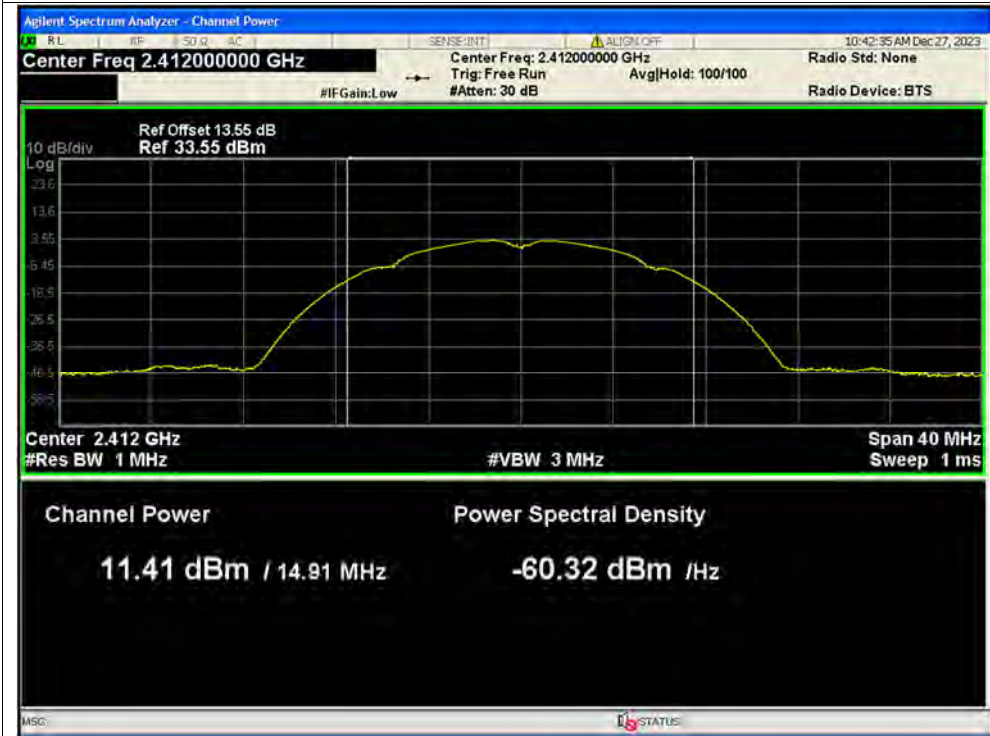
**A.3. Maximum Average Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	b	2412	Ant1	11.41	0.1	11.51	0.01416	30	Pass
NVNT	b	2437	Ant1	11.62	0.13	11.75	0.01496	30	Pass
NVNT	b	2462	Ant1	11.67	0.08	11.75	0.01496	30	Pass
NVNT	g	2412	Ant1	10.24	0.62	10.86	0.01219	30	Pass
NVNT	g	2437	Ant1	10.26	0.69	10.95	0.01245	30	Pass
NVNT	g	2462	Ant1	10.41	0.67	11.08	0.01282	30	Pass
NVNT	n20	2412	Ant1	10.12	0.79	10.91	0.01233	30	Pass
NVNT	n20	2437	Ant1	10.25	0.83	11.08	0.01282	30	Pass
NVNT	n20	2462	Ant1	10.29	0.66	10.95	0.01245	30	Pass
NVNT	n40	2422	Ant1	9.26	1	10.26	0.01062	30	Pass
NVNT	n40	2437	Ant1	9.4	1.33	10.73	0.01183	30	Pass
NVNT	n40	2452	Ant1	9.44	1.11	10.55	0.01135	30	Pass

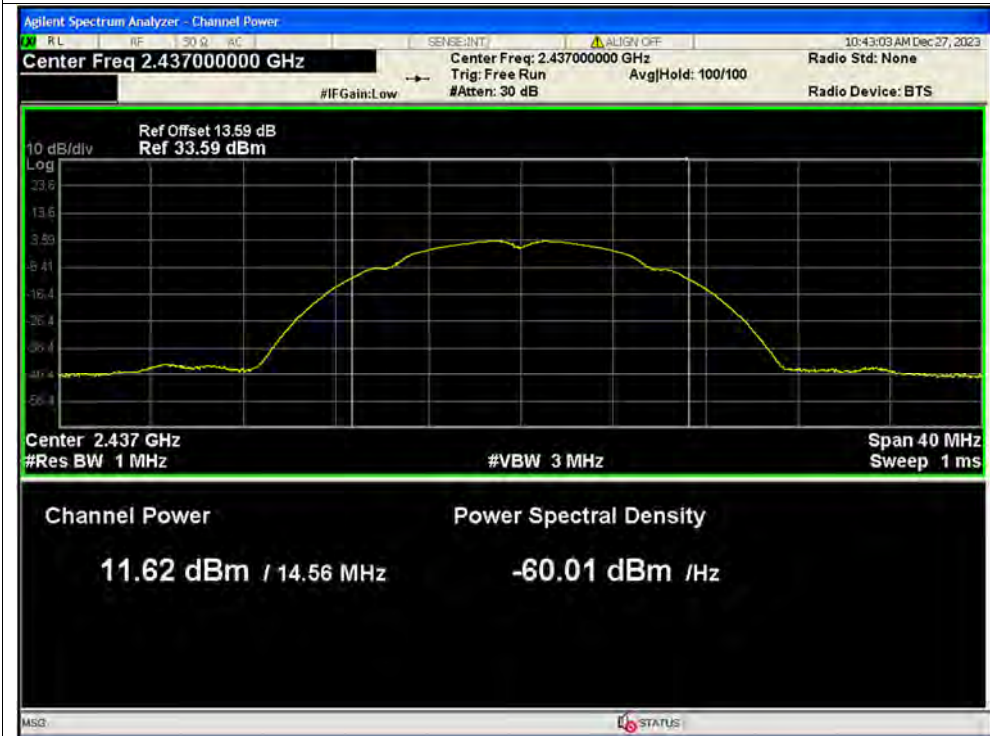


Test Graphs

Average Power NVNT b 2412MHz Ant1

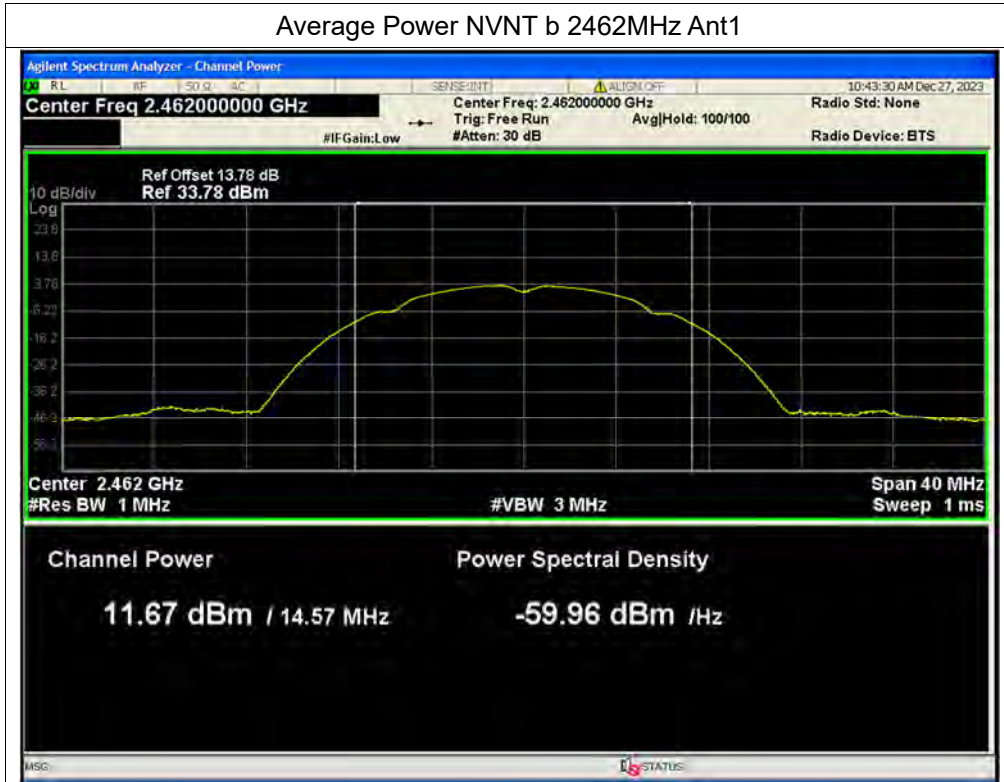


Average Power NVNT b 2437MHz Ant1

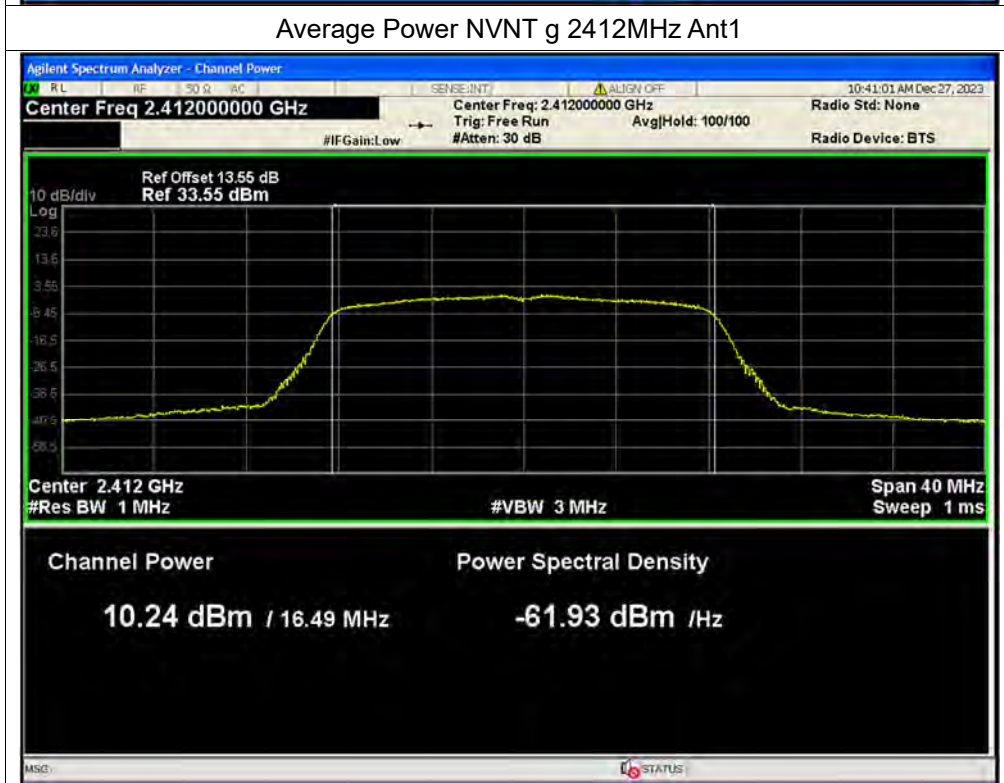




Average Power NVNT b 2462MHz Ant1

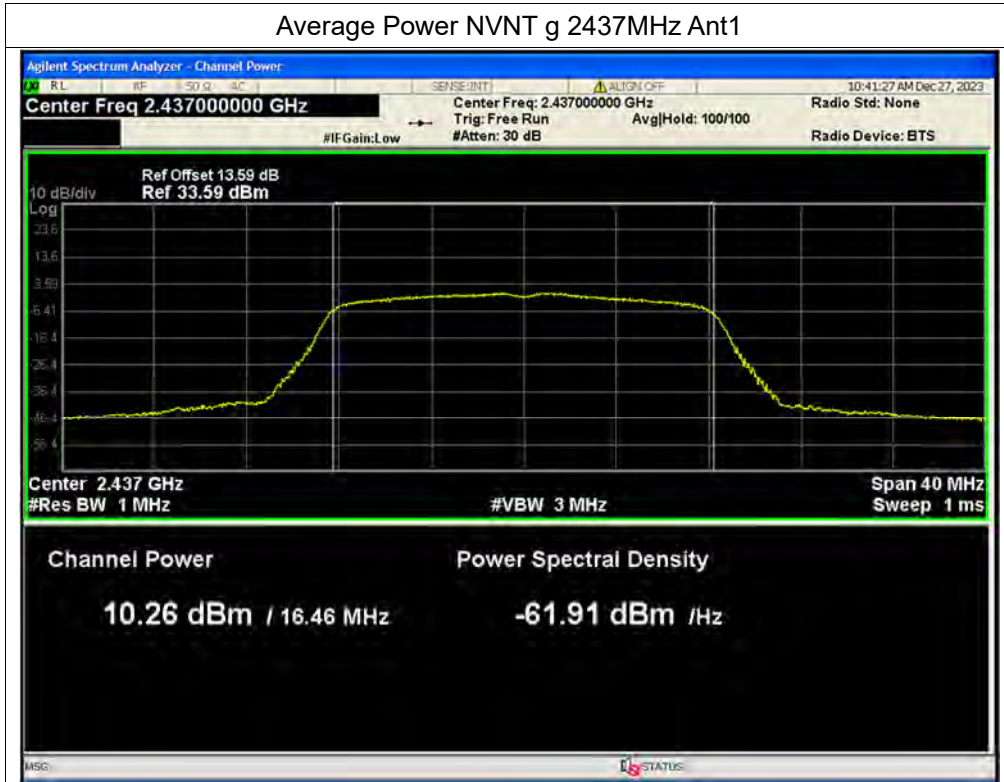


Average Power NVNT g 2412MHz Ant1

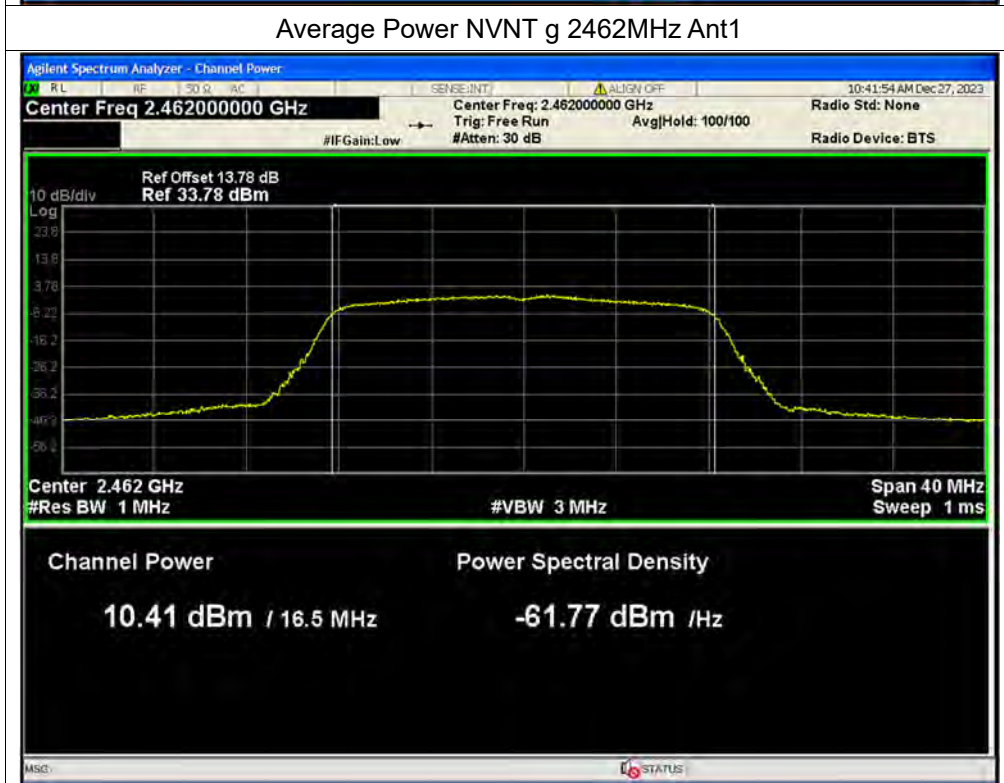




Average Power NVNT g 2437MHz Ant1

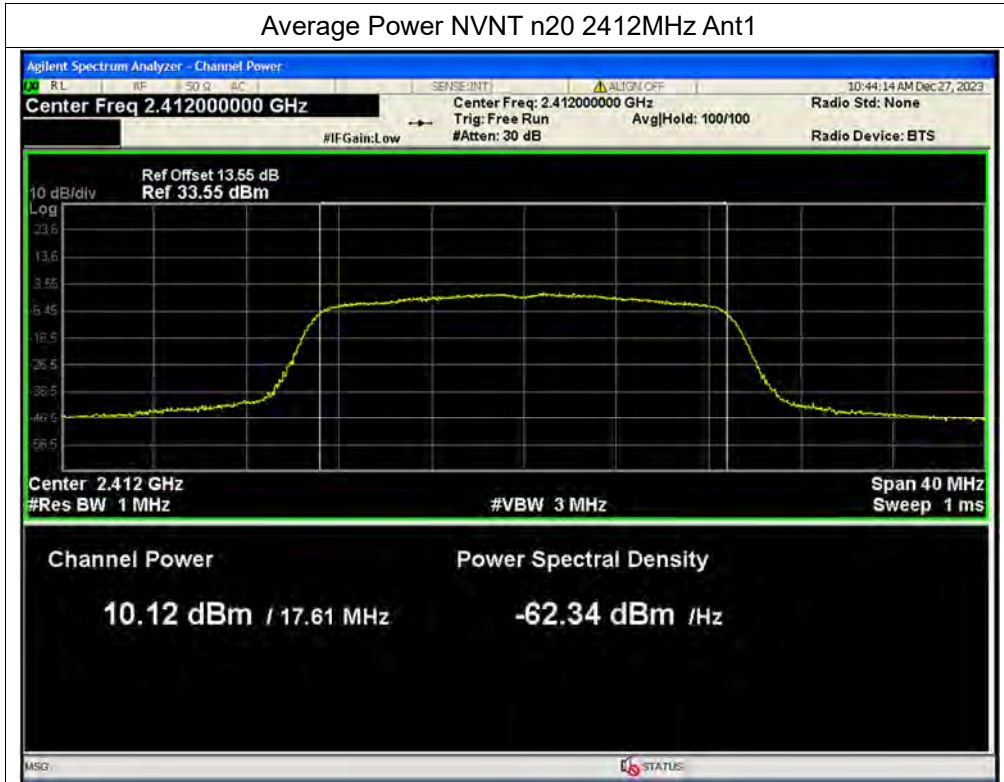


Average Power NVNT g 2462MHz Ant1

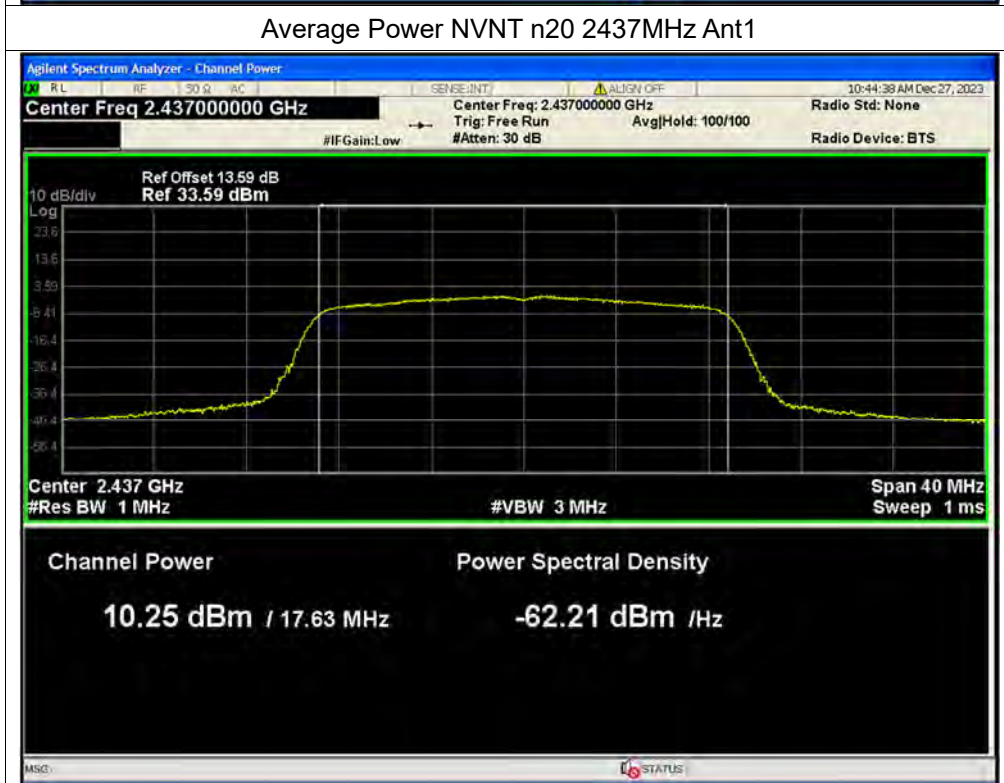




Average Power NVNT n20 2412MHz Ant1

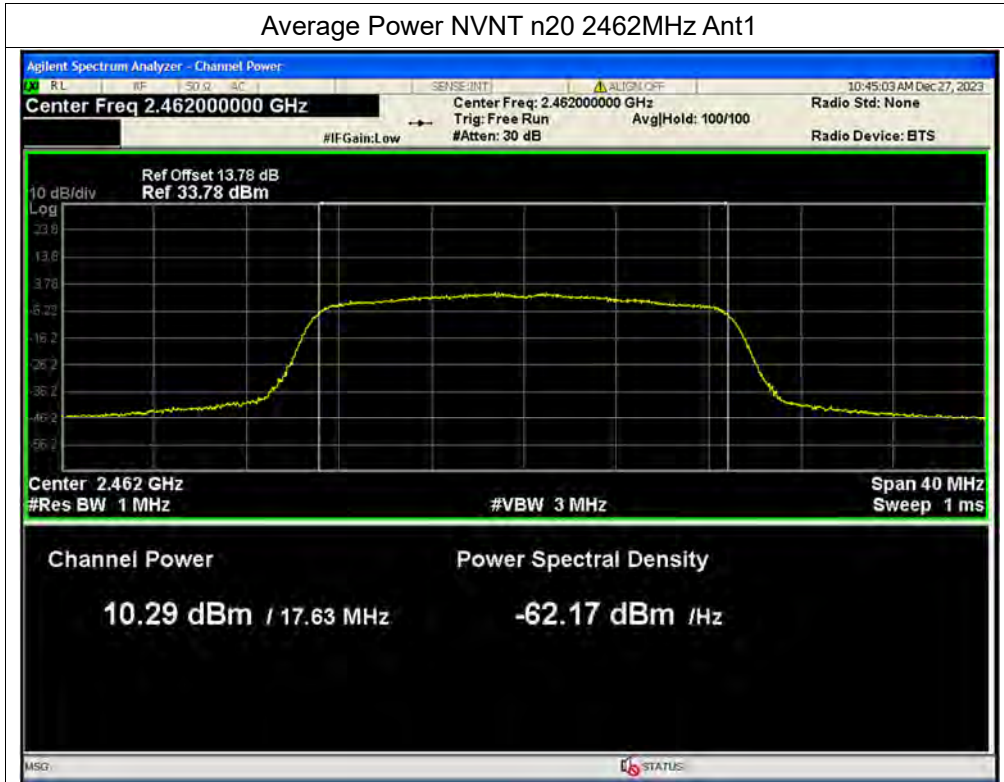


Average Power NVNT n20 2437MHz Ant1

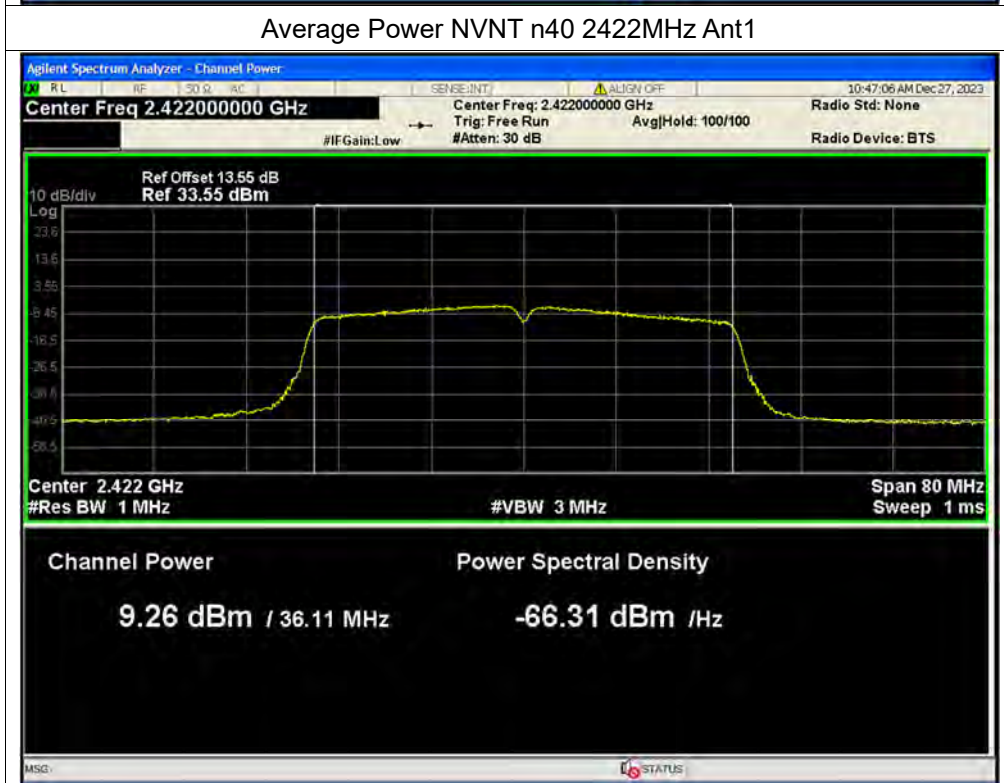




Average Power NVNT n20 2462MHz Ant1

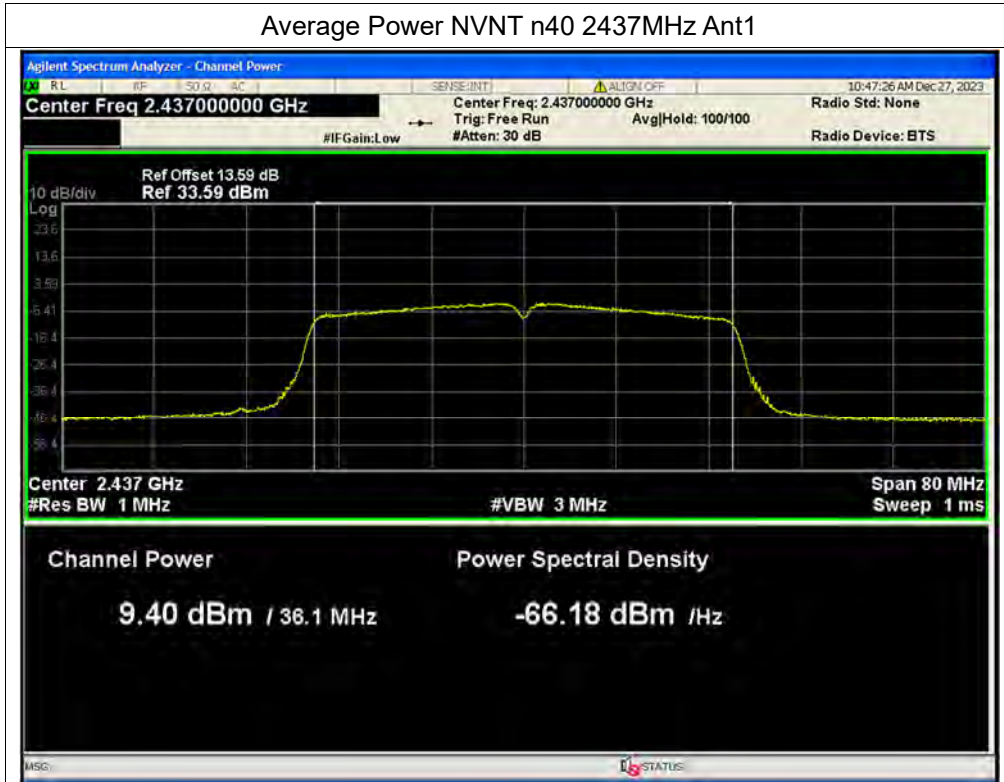


Average Power NVNT n40 2422MHz Ant1

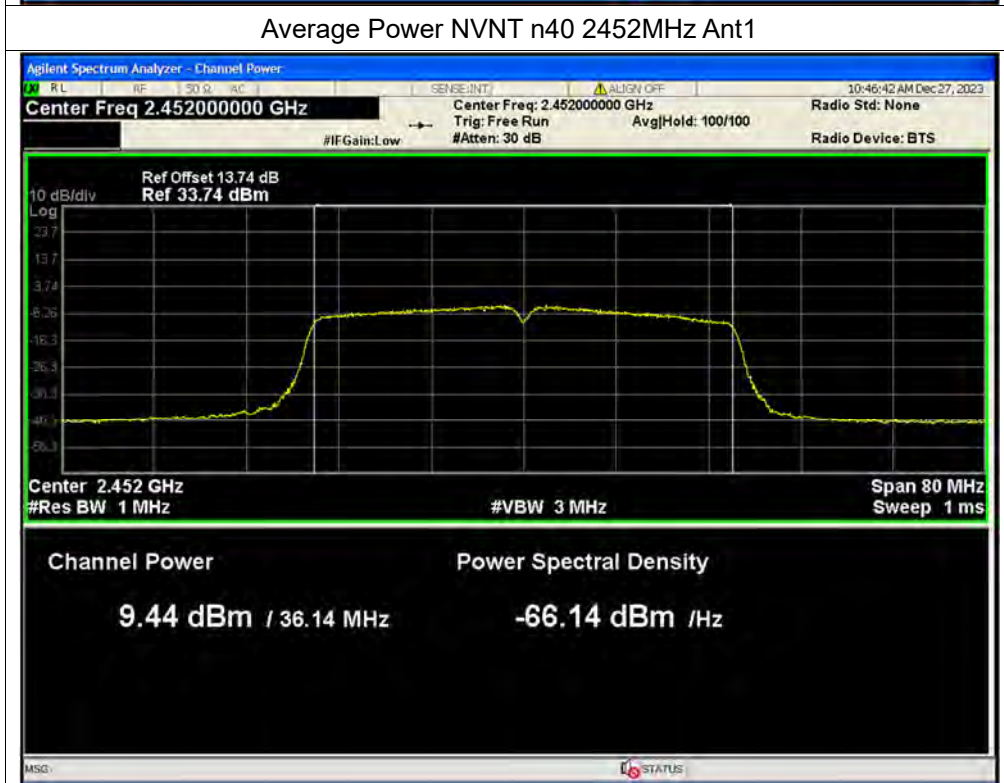




Average Power NVNT n40 2437MHz Ant1



Average Power NVNT n40 2452MHz Ant1



**A.4. 6 dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.01	0.5	Pass
NVNT	b	2437	Ant1	8.577	0.5	Pass
NVNT	b	2462	Ant1	10.009	0.5	Pass
NVNT	g	2412	Ant1	16.054	0.5	Pass
NVNT	g	2437	Ant1	16.303	0.5	Pass
NVNT	g	2462	Ant1	15.882	0.5	Pass
NVNT	n20	2412	Ant1	17.569	0.5	Pass
NVNT	n20	2437	Ant1	16.876	0.5	Pass
NVNT	n20	2462	Ant1	17.301	0.5	Pass
NVNT	n40	2422	Ant1	35.799	0.5	Pass
NVNT	n40	2437	Ant1	35.947	0.5	Pass
NVNT	n40	2452	Ant1	35.296	0.5	Pass



Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1





-6dB Bandwidth NVNT b 2462MHz Ant1

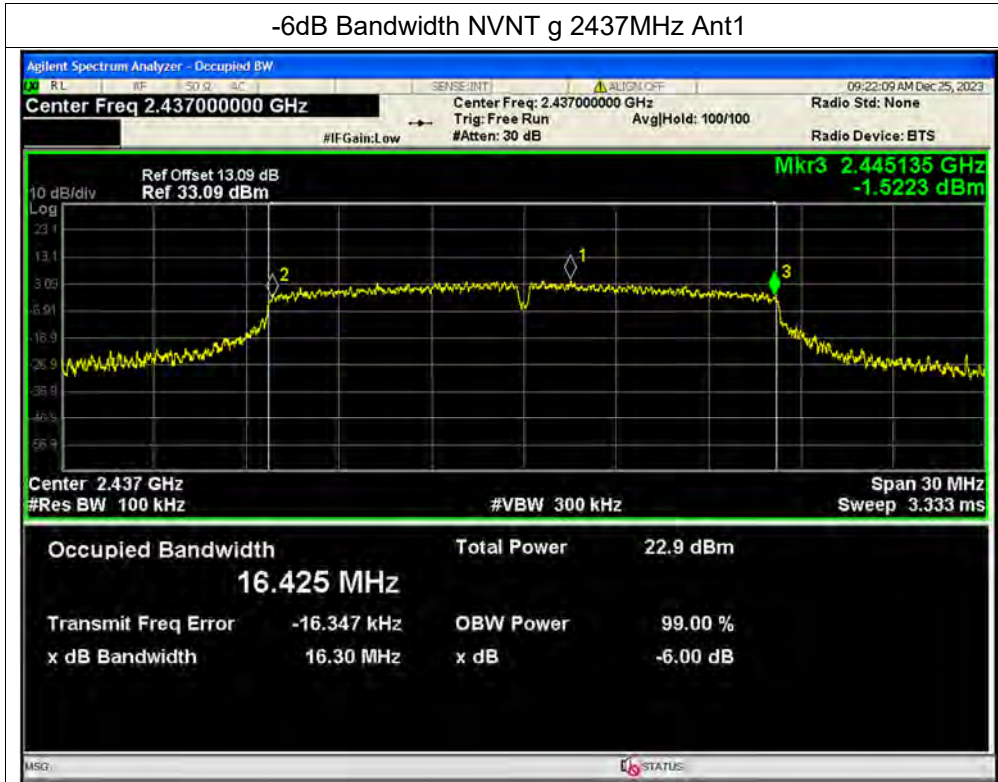


-6dB Bandwidth NVNT g 2412MHz Ant1

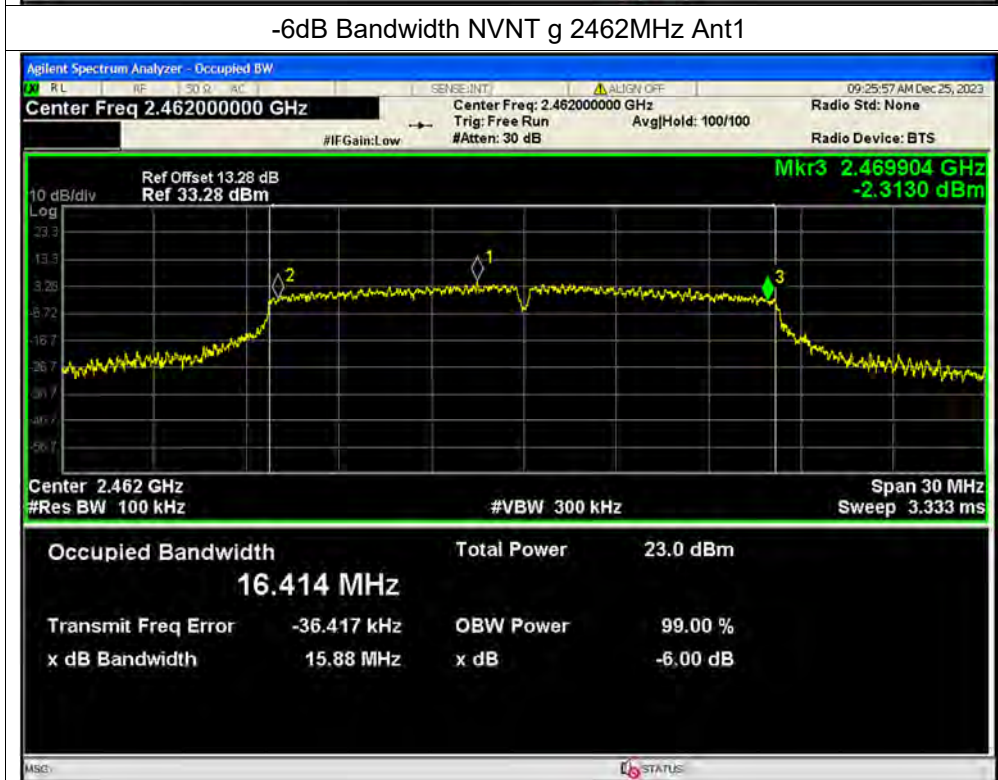




-6dB Bandwidth NVNT g 2437MHz Ant1

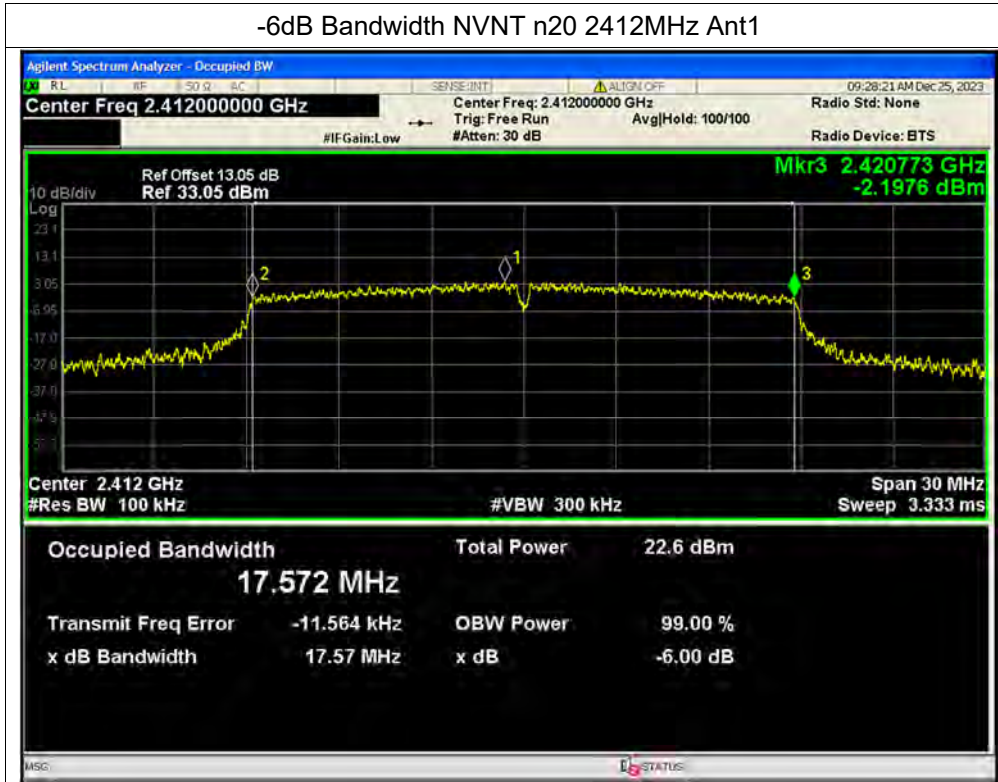


-6dB Bandwidth NVNT g 2462MHz Ant1

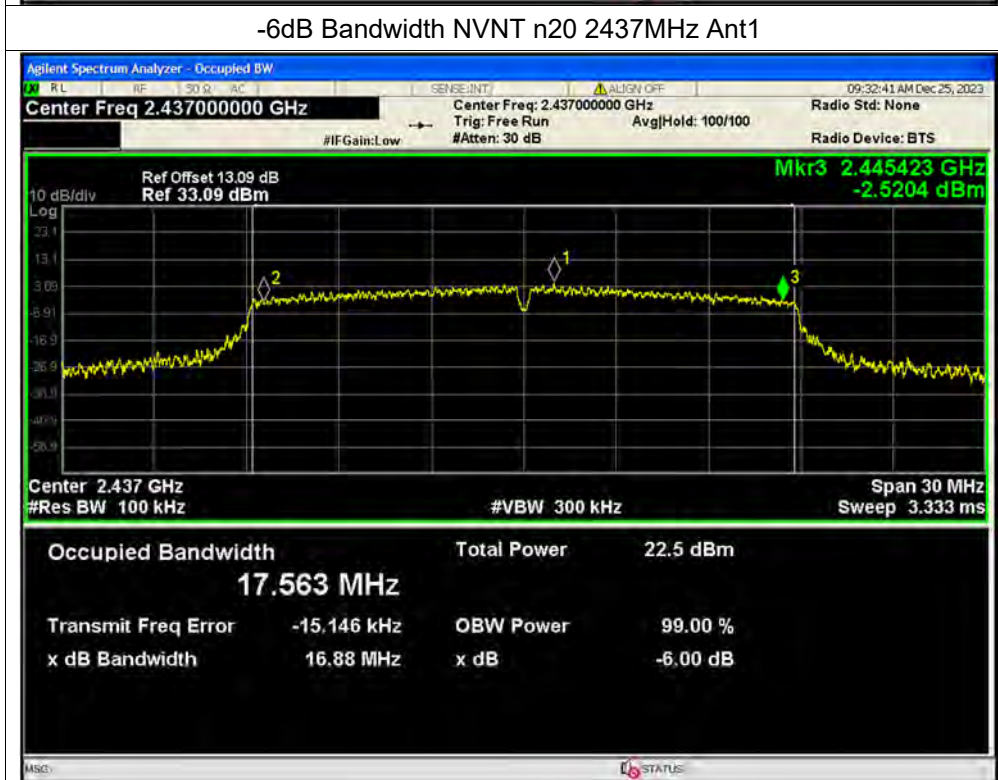




-6dB Bandwidth NVNT n20 2412MHz Ant1

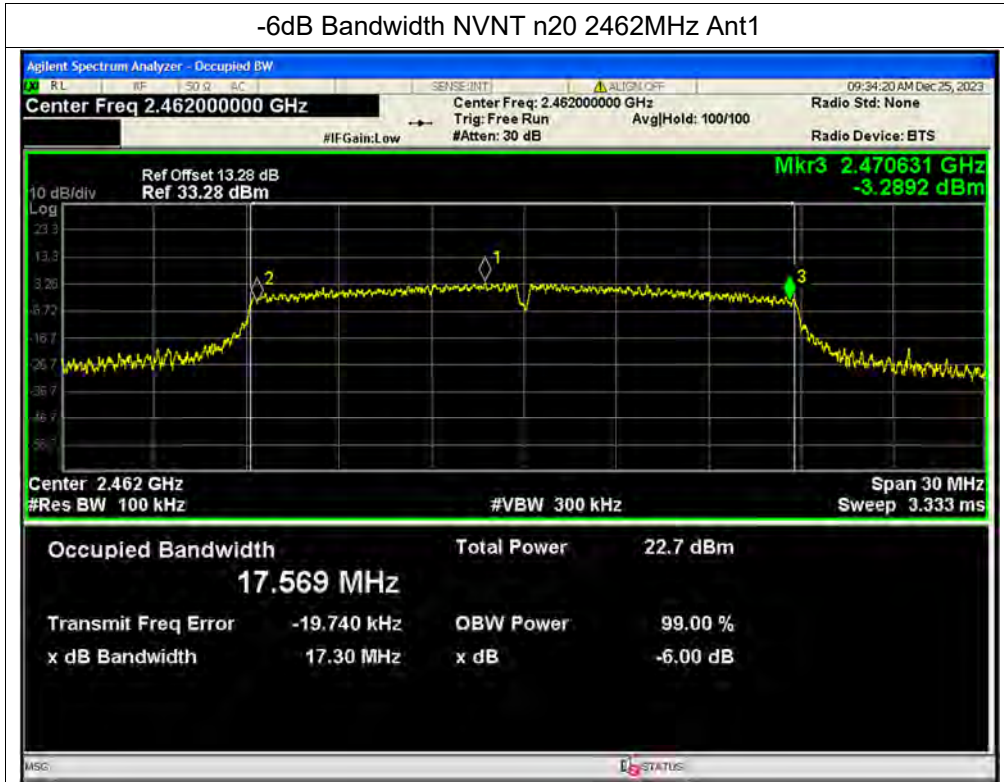


-6dB Bandwidth NVNT n20 2437MHz Ant1

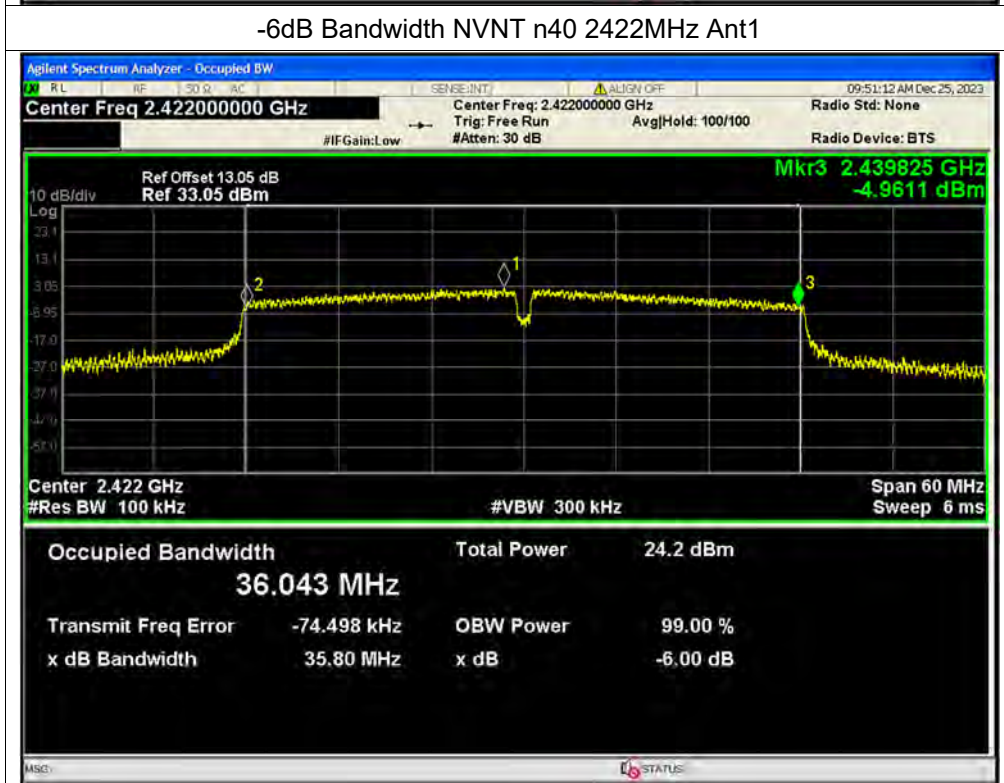




-6dB Bandwidth NVNT n20 2462MHz Ant1

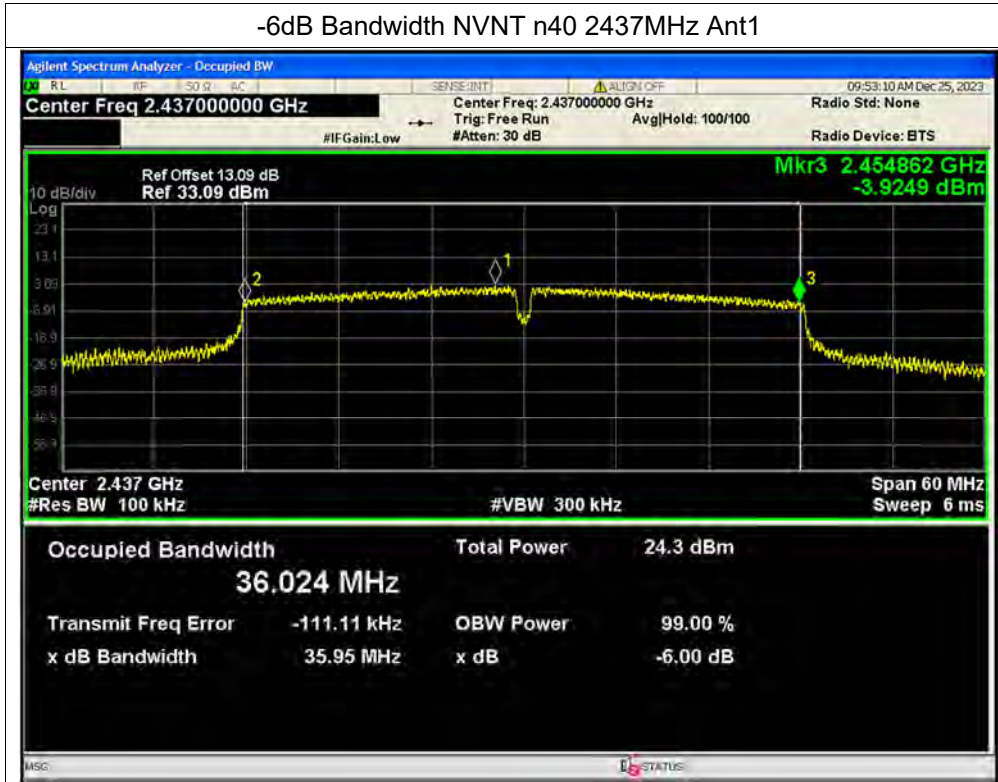


-6dB Bandwidth NVNT n40 2422MHz Ant1

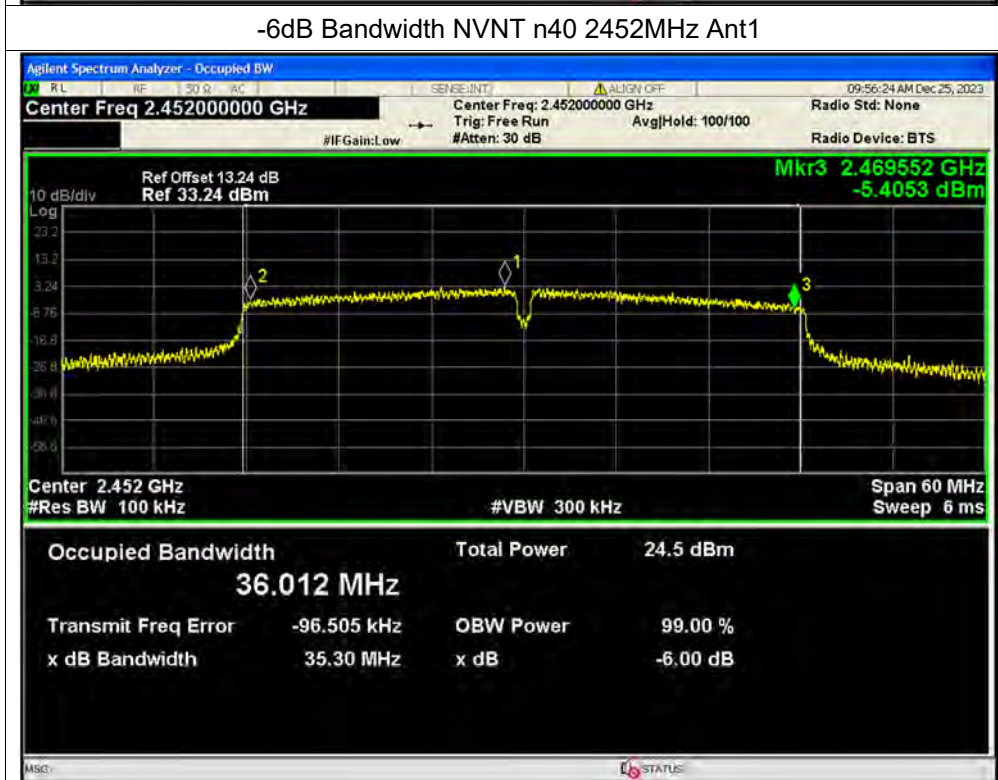




-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1





A.5. Conducted Spurious Emissions

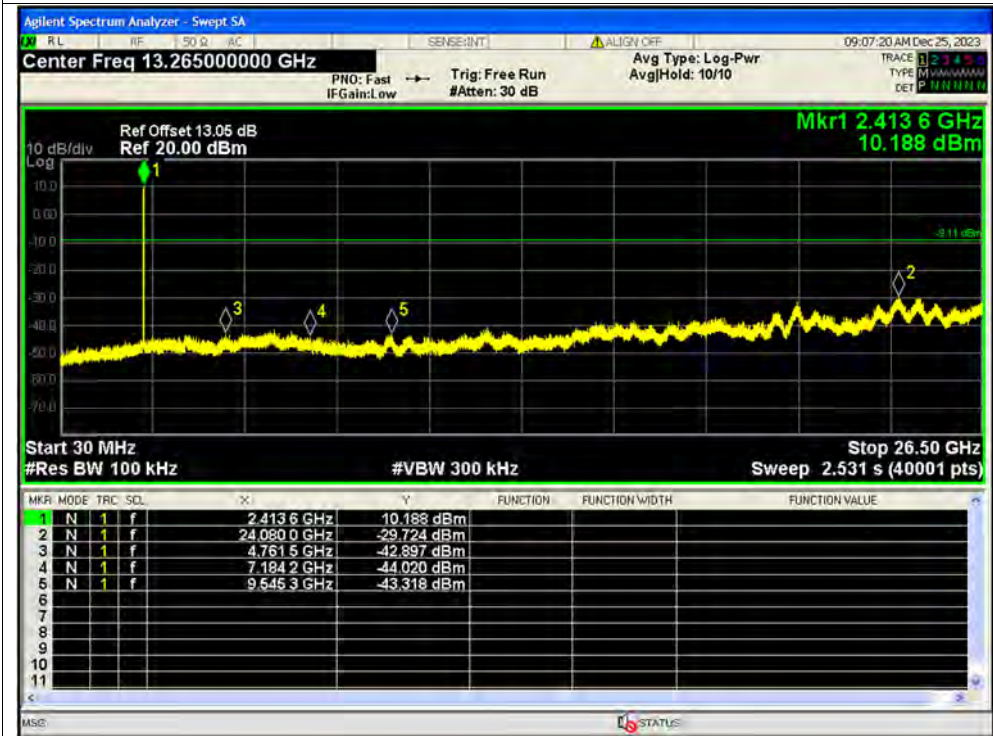
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-40.61	-20	Pass
NVNT	b	2437	Ant1	-38.08	-20	Pass
NVNT	b	2462	Ant1	-38.36	-20	Pass
NVNT	g	2412	Ant1	-33.06	-20	Pass
NVNT	g	2437	Ant1	-33.66	-20	Pass
NVNT	g	2462	Ant1	-33.59	-20	Pass
NVNT	n20	2412	Ant1	-33.86	-20	Pass
NVNT	n20	2437	Ant1	-33.65	-20	Pass
NVNT	n20	2462	Ant1	-33.04	-20	Pass
NVNT	n40	2422	Ant1	-30.72	-20	Pass
NVNT	n40	2437	Ant1	-32.4	-20	Pass
NVNT	n40	2452	Ant1	-32.03	-20	Pass

Test Graphs

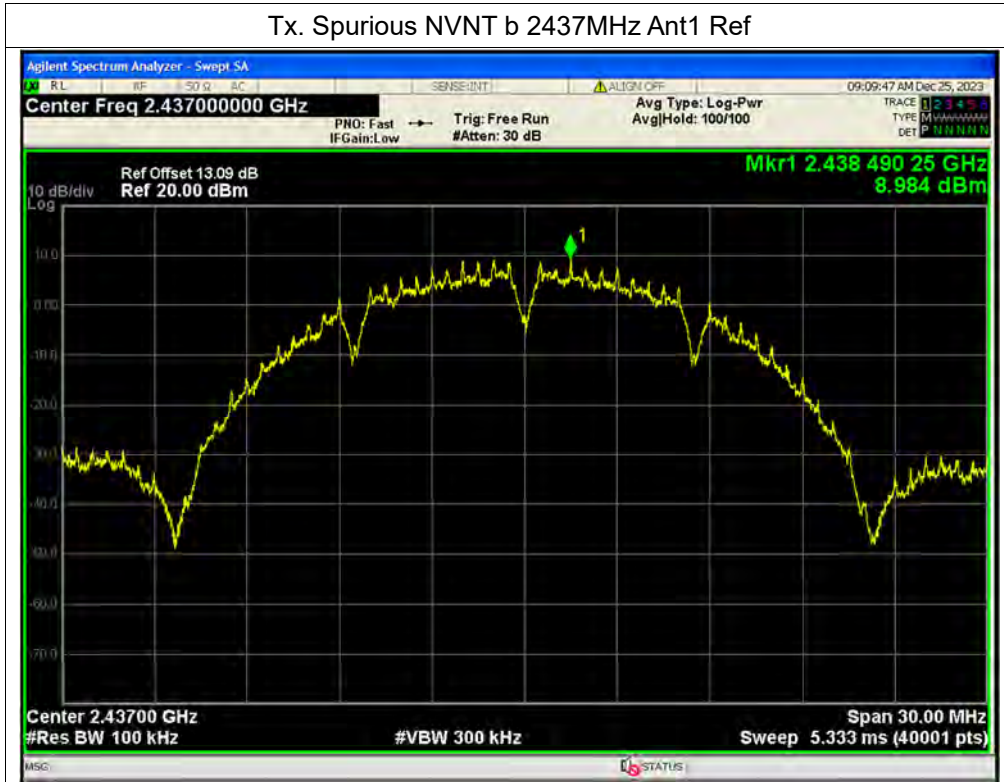
Tx. Spurious NVNT b 2412MHz Ant1 Ref



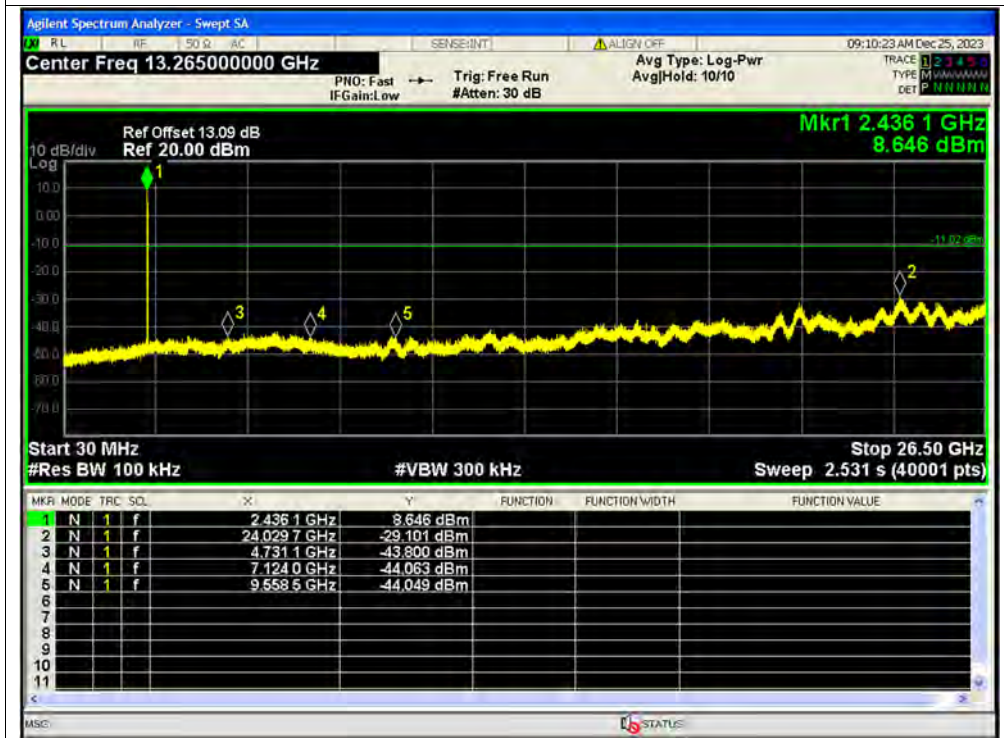
Tx. Spurious NVNT b 2412MHz Ant1 Emission



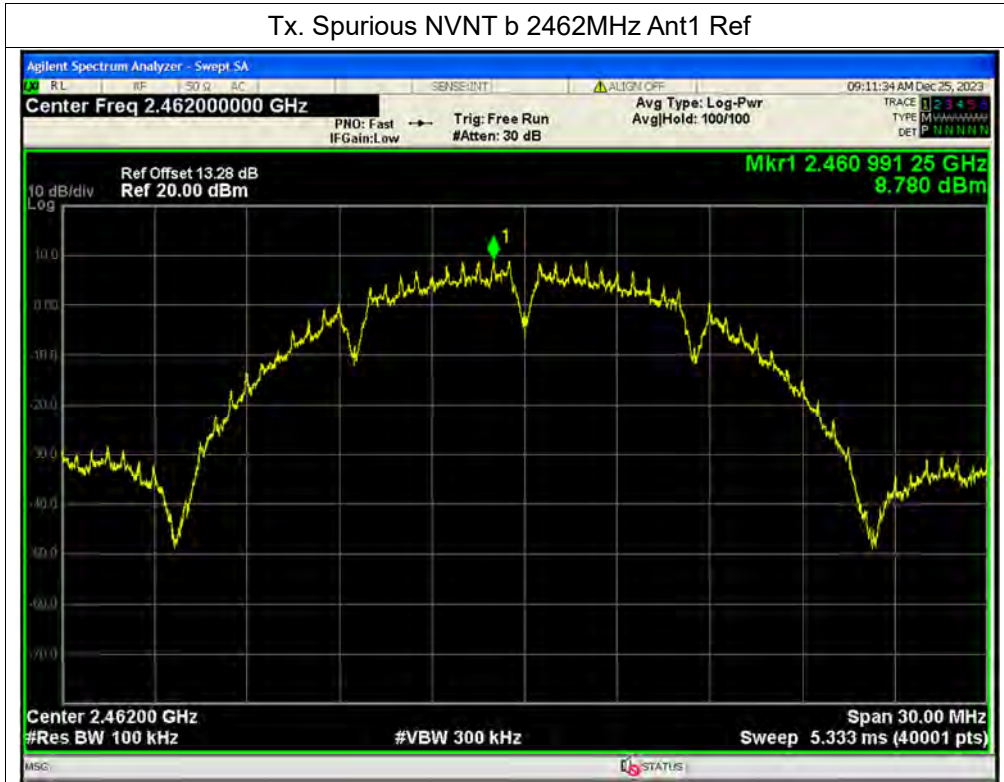
Tx. Spurious NVNT b 2437MHz Ant1 Ref



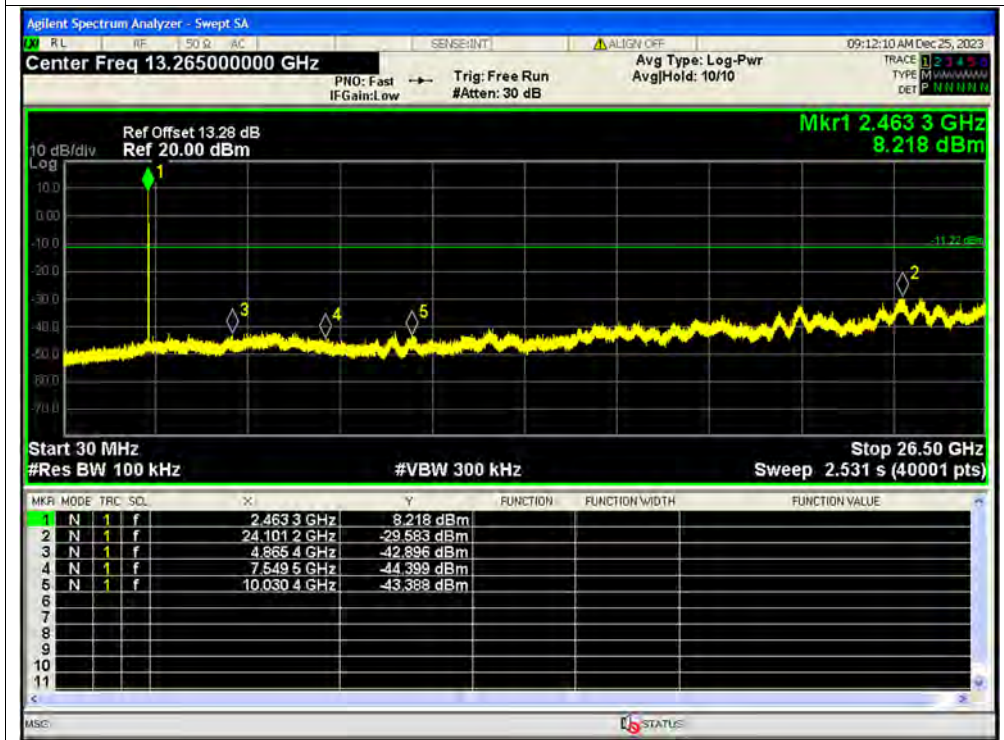
Tx. Spurious NVNT b 2437MHz Ant1 Emission



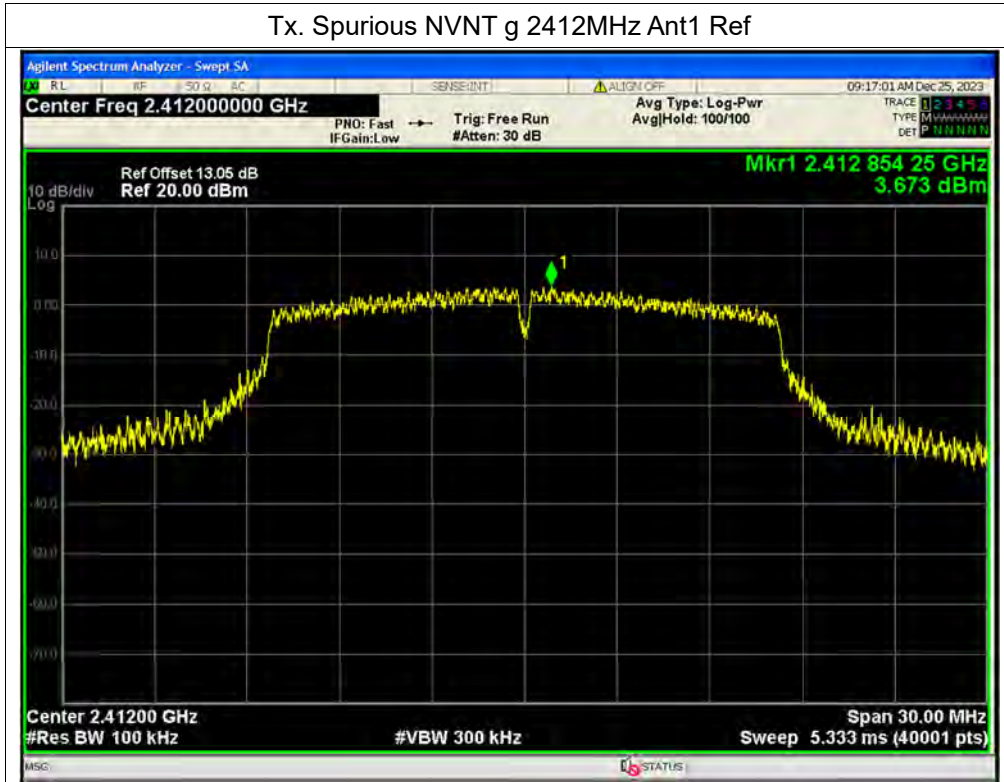
Tx. Spurious NVNT b 2462MHz Ant1 Ref



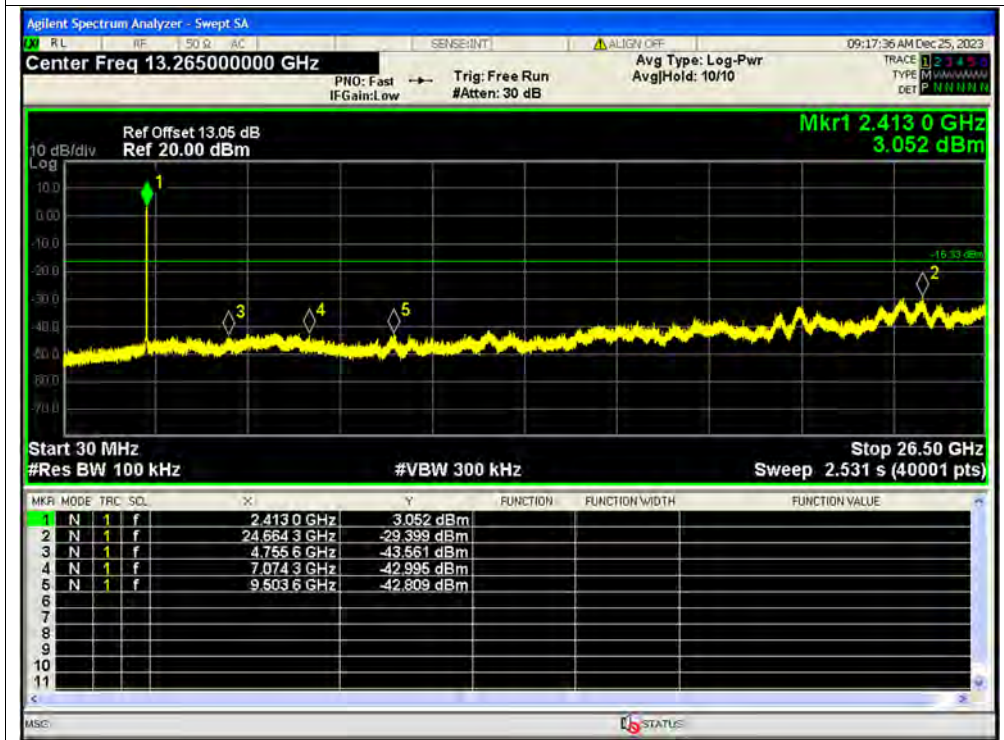
Tx. Spurious NVNT b 2462MHz Ant1 Emission



Tx. Spurious NVNT g 2412MHz Ant1 Ref

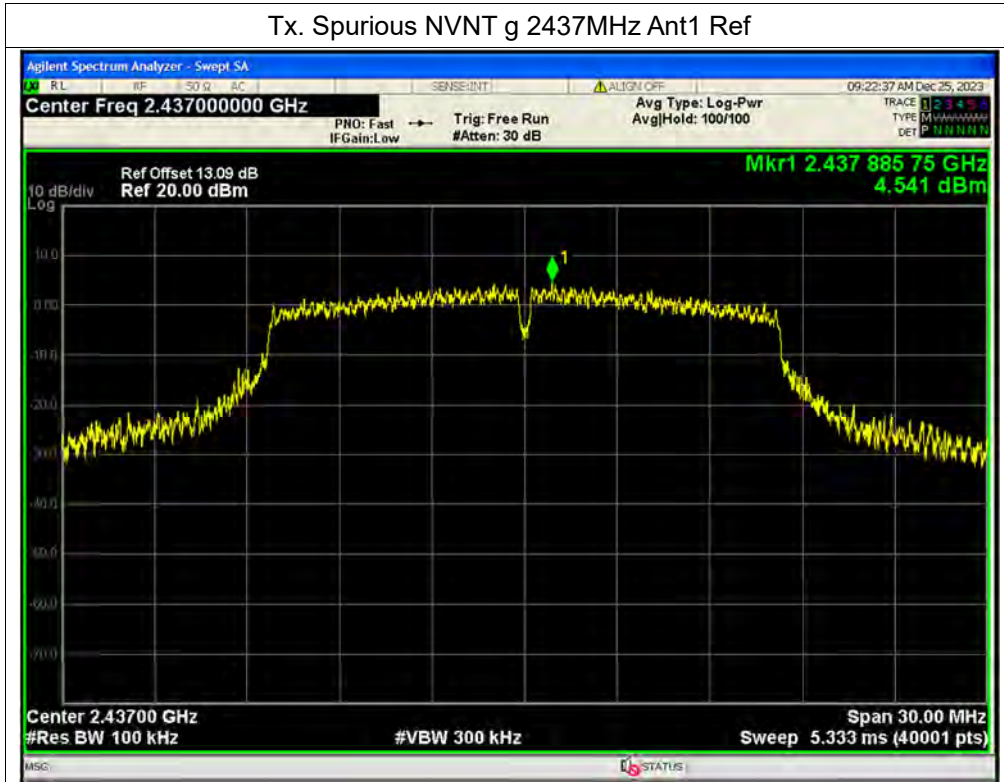


Tx. Spurious NVNT g 2412MHz Ant1 Emission

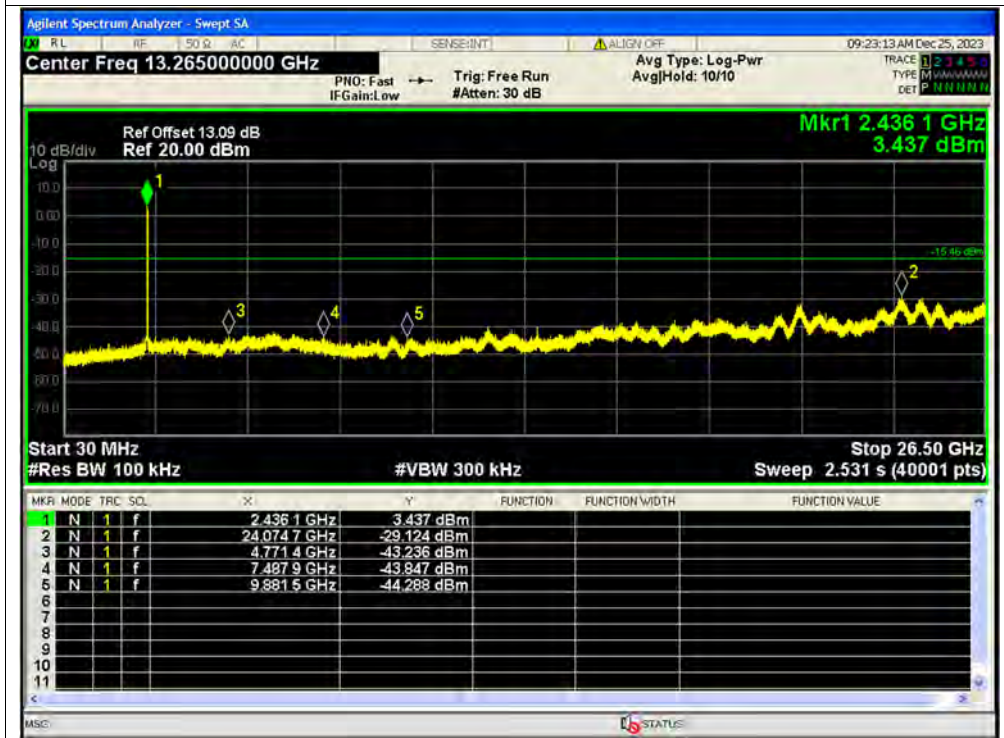




Tx. Spurious NVNT g 2437MHz Ant1 Ref

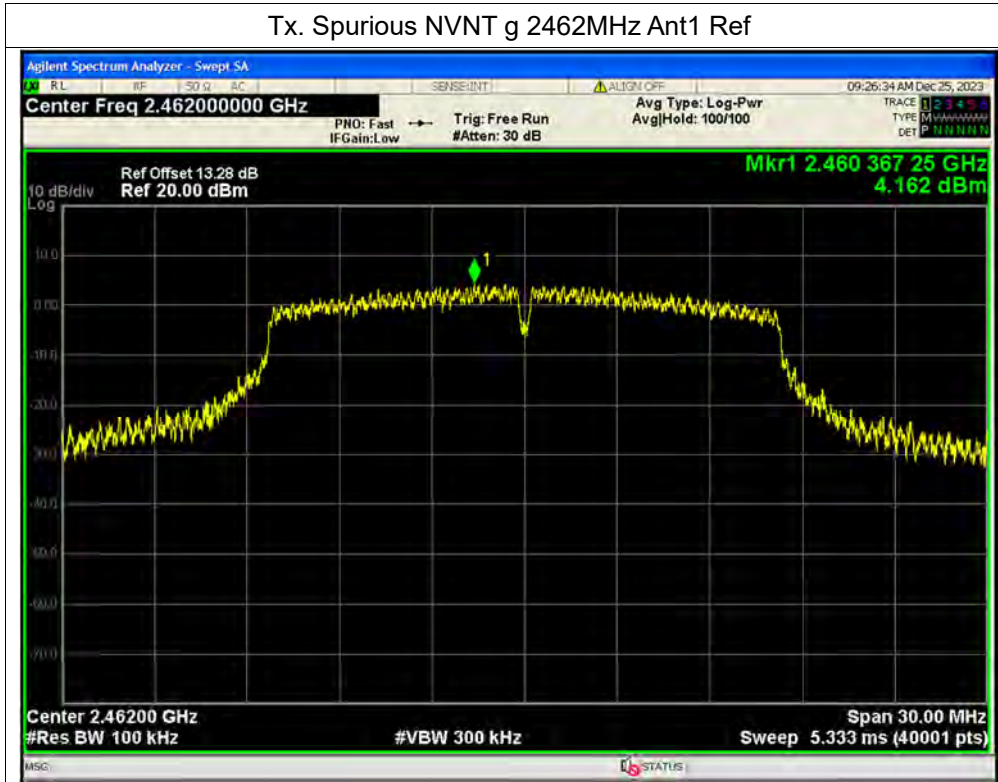


Tx. Spurious NVNT g 2437MHz Ant1 Emission

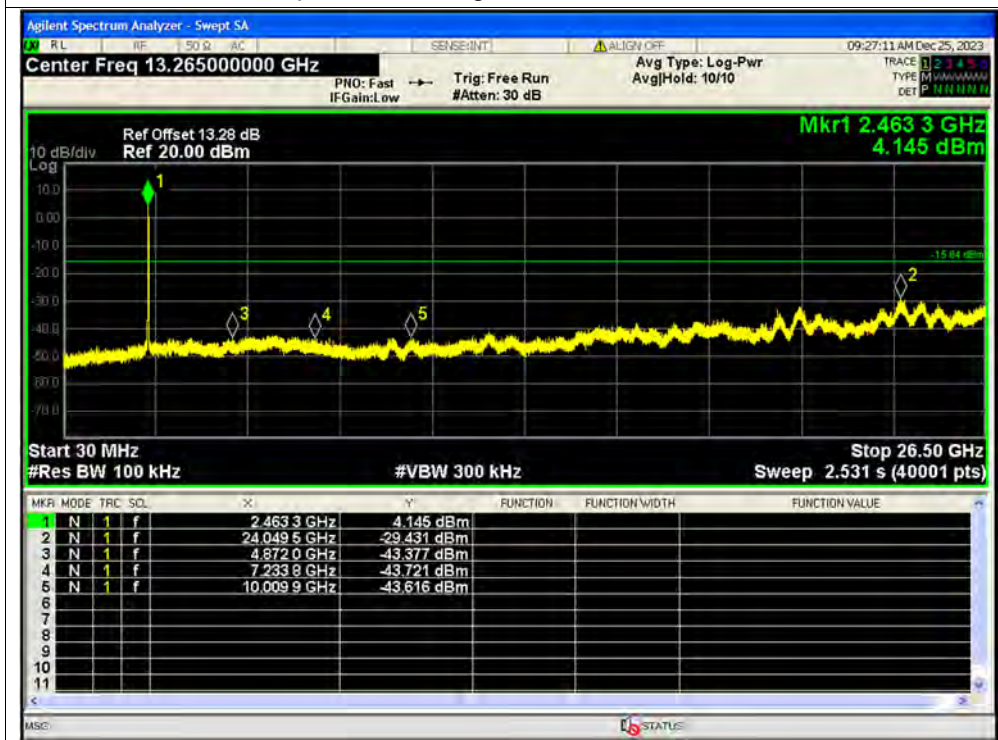




Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission

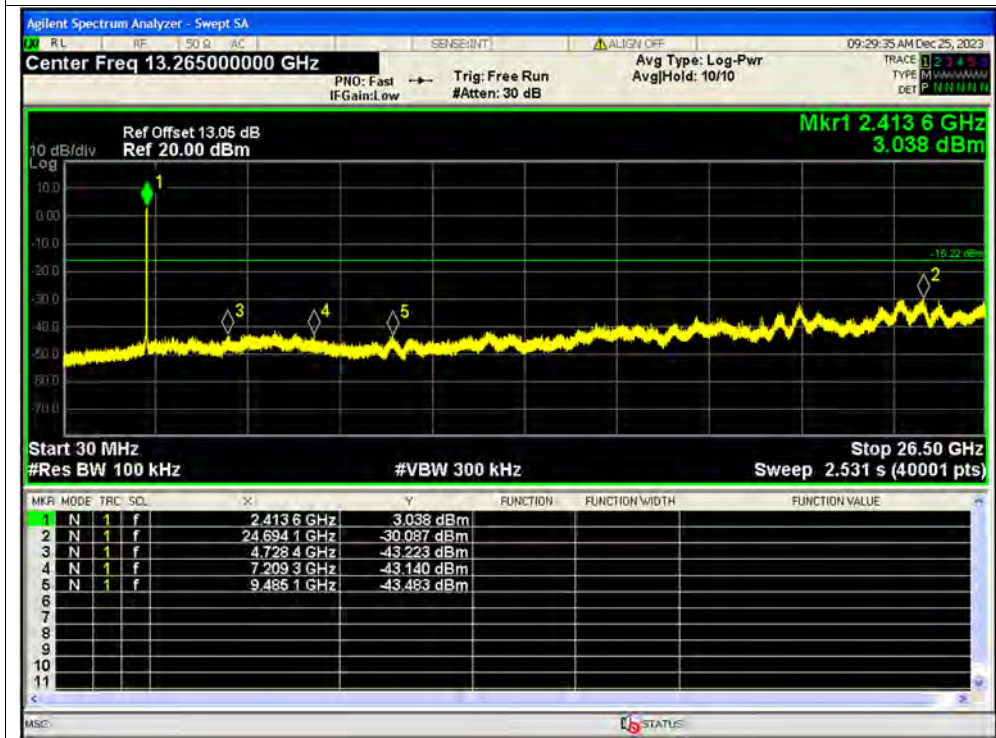




Tx. Spurious NVNT n20 2412MHz Ant1 Ref

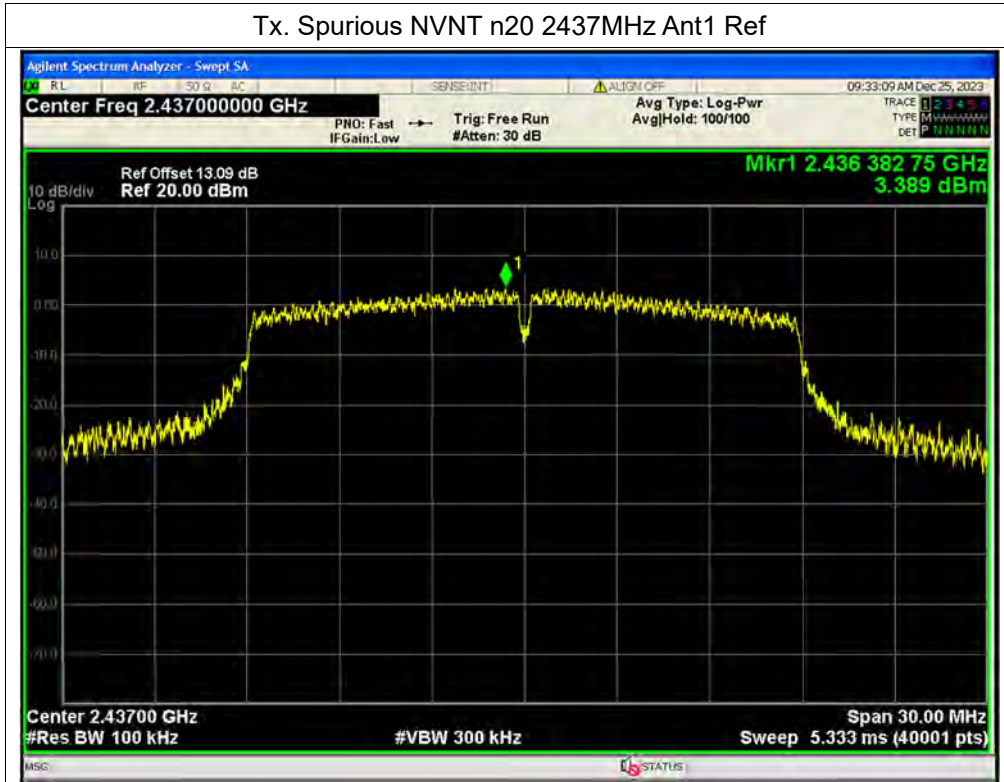


Tx. Spurious NVNT n20 2412MHz Ant1 Emission

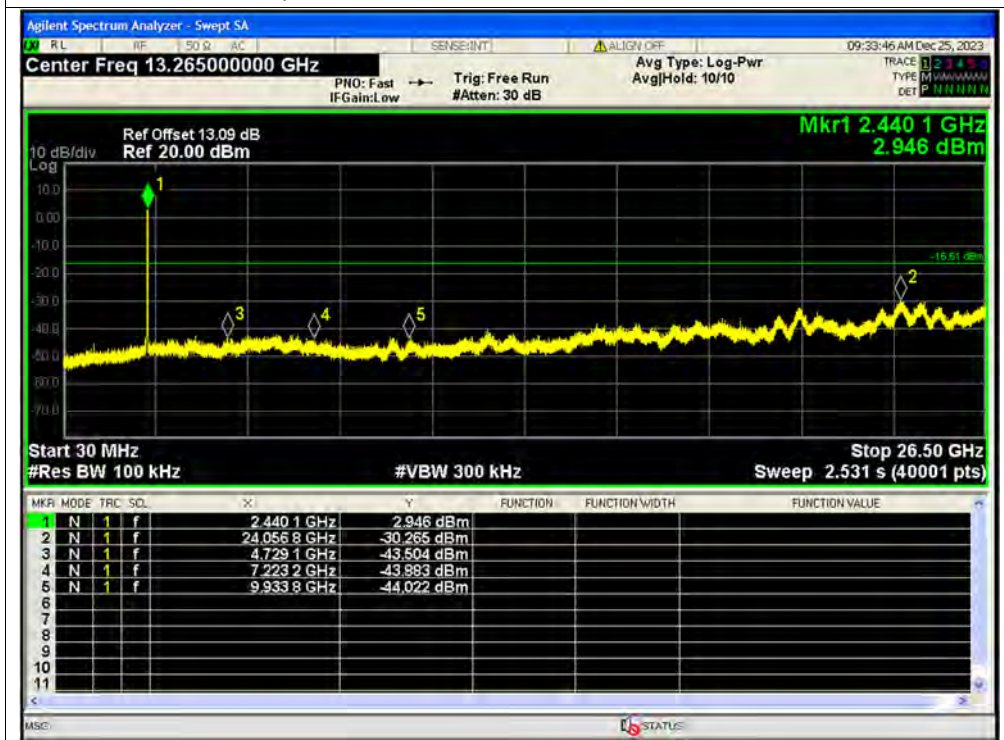




Tx. Spurious NVNT n20 2437MHz Ant1 Ref

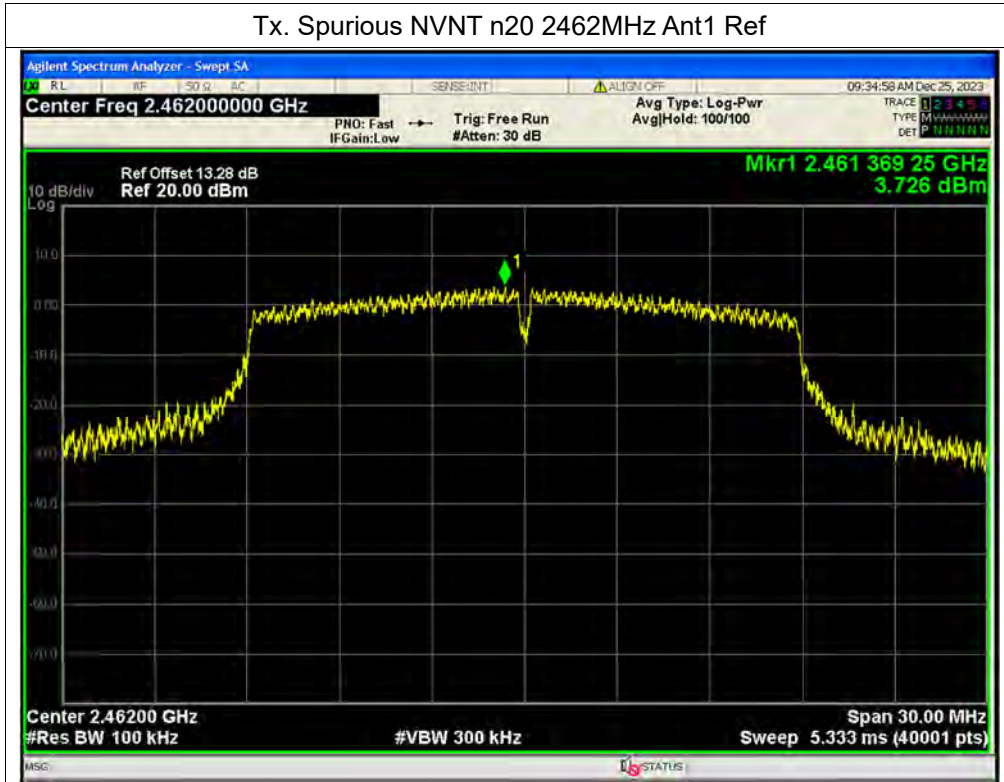


Tx. Spurious NVNT n20 2437MHz Ant1 Emission

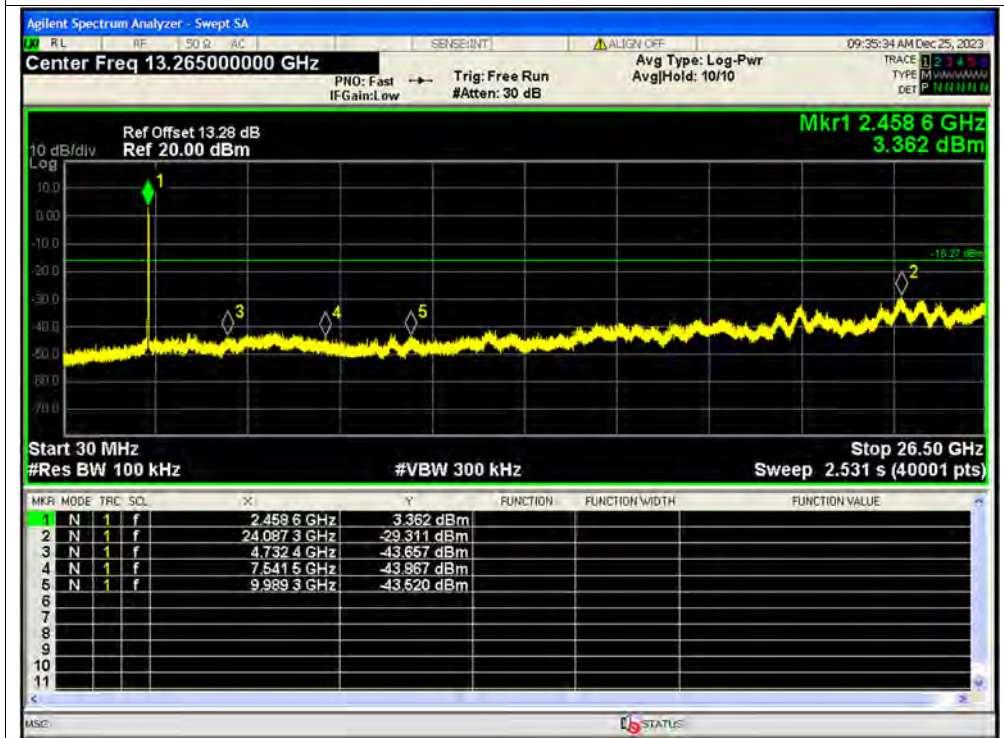




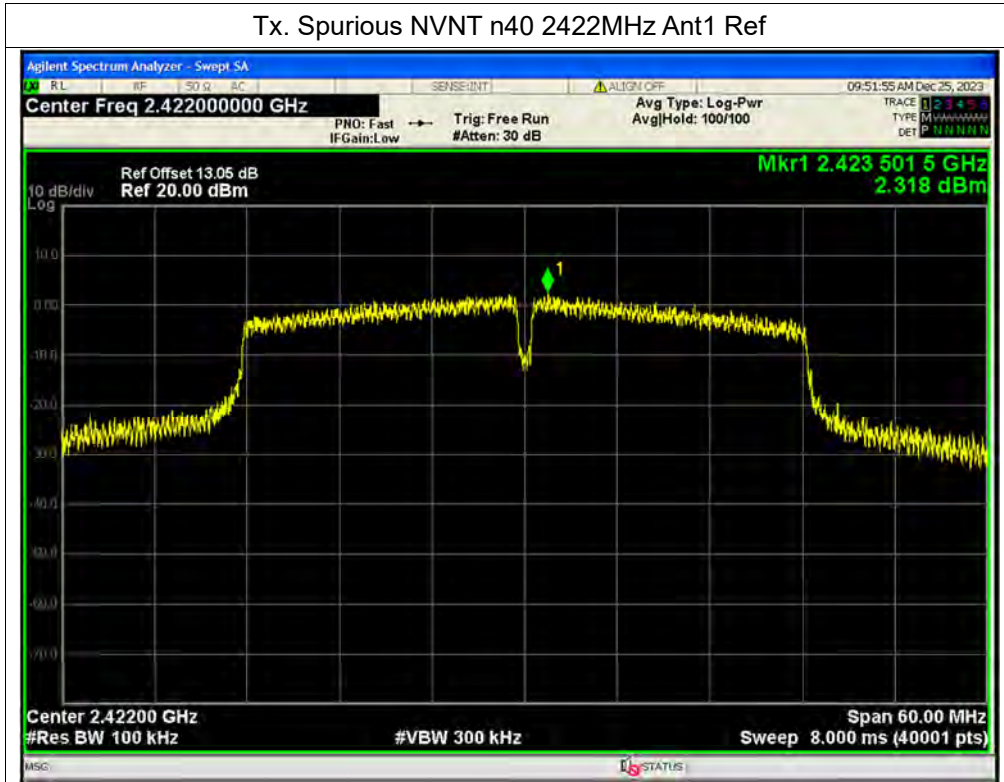
Tx. Spurious NVNT n20 2462MHz Ant1 Ref



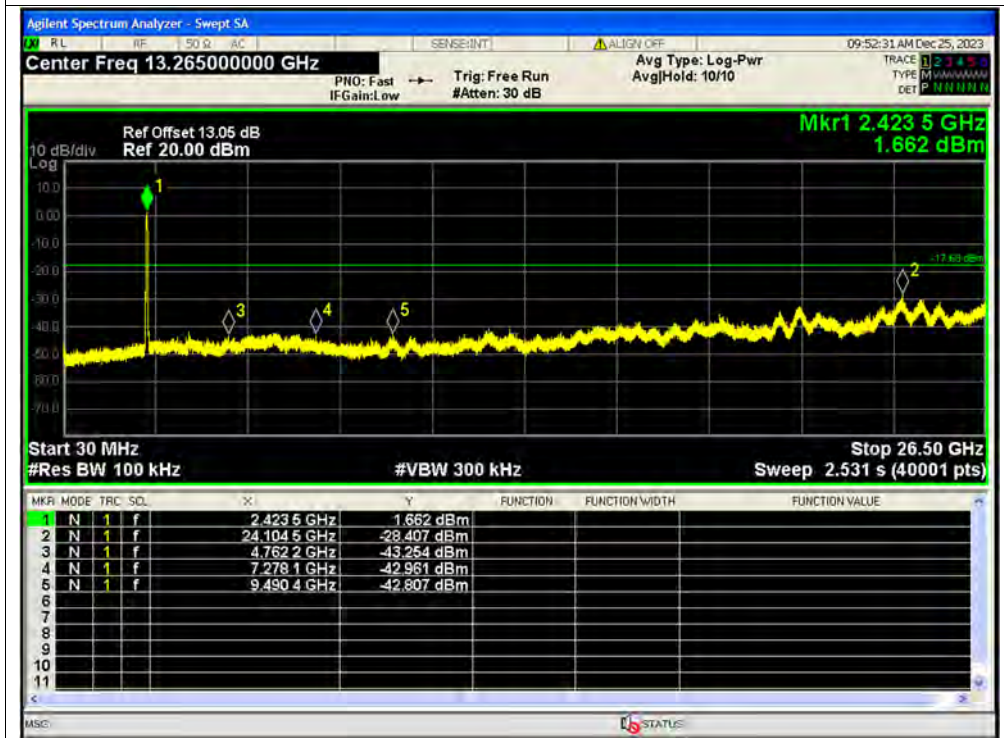
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



Tx. Spurious NVNT n40 2422MHz Ant1 Ref

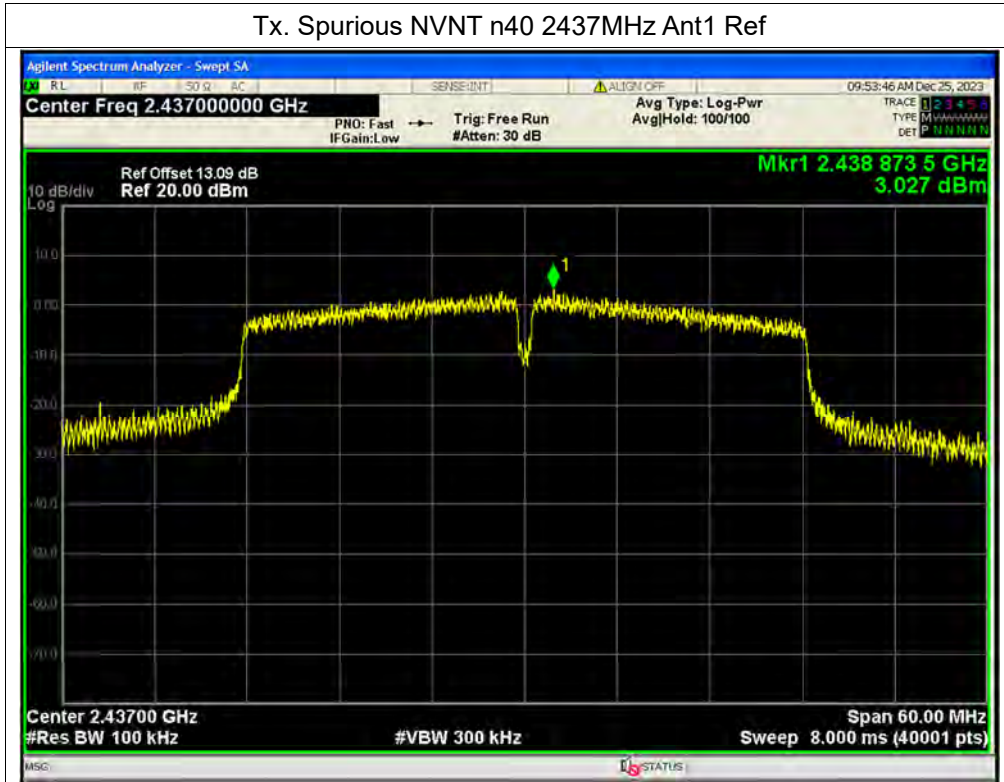


Tx. Spurious NVNT n40 2422MHz Ant1 Emission

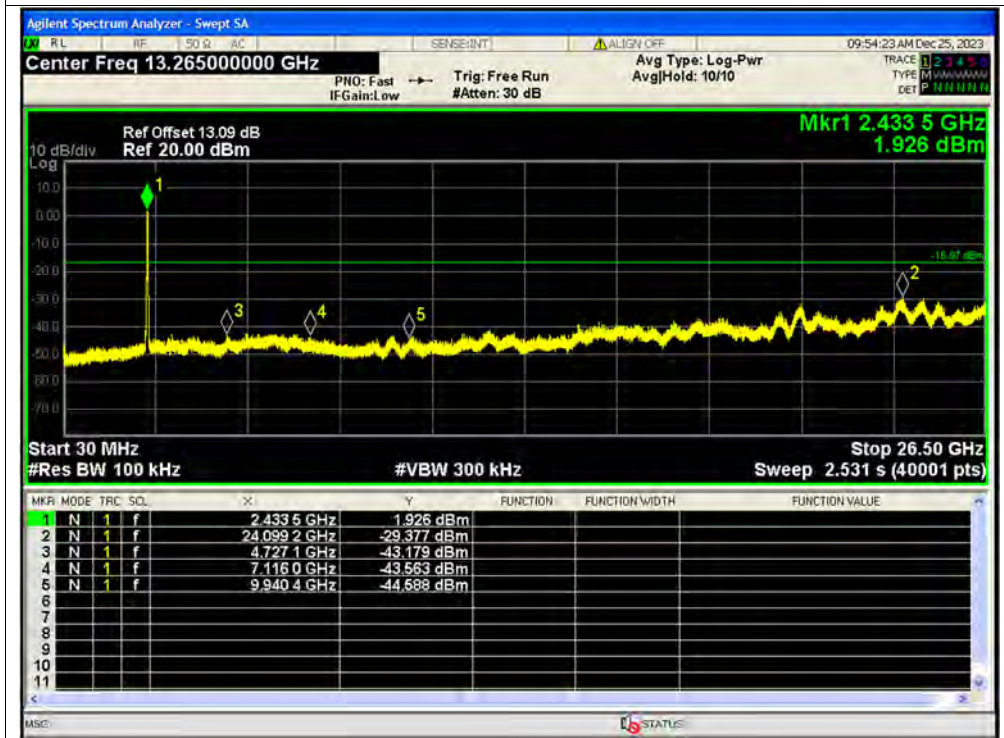




Tx. Spurious NVNT n40 2437MHz Ant1 Ref

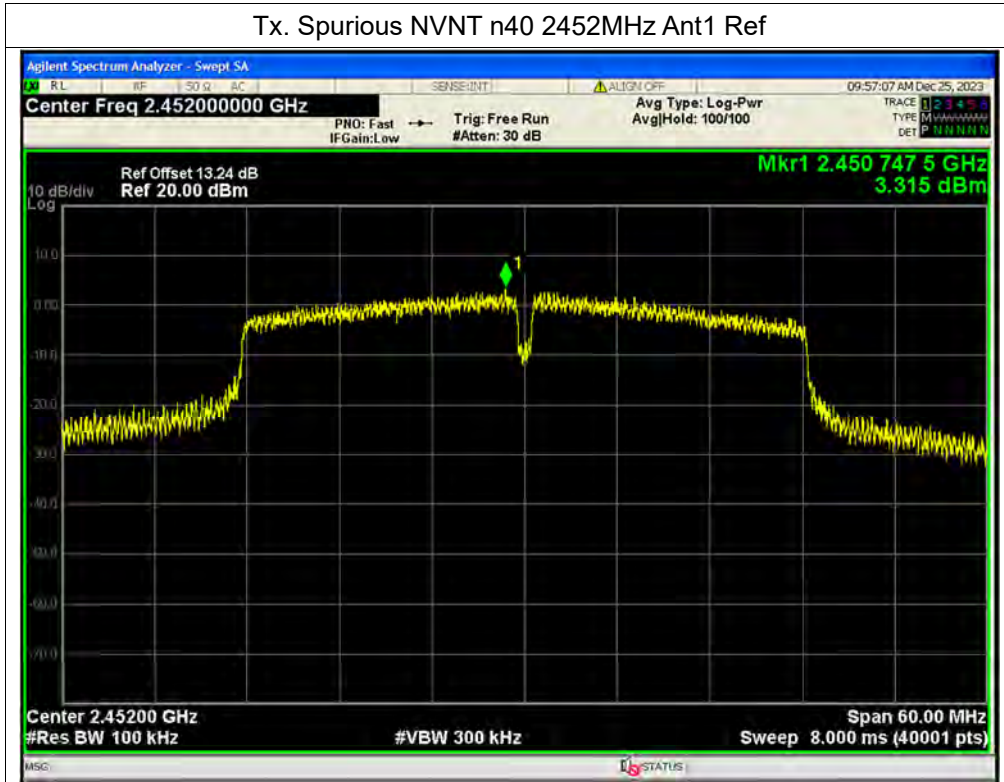


Tx. Spurious NVNT n40 2437MHz Ant1 Emission

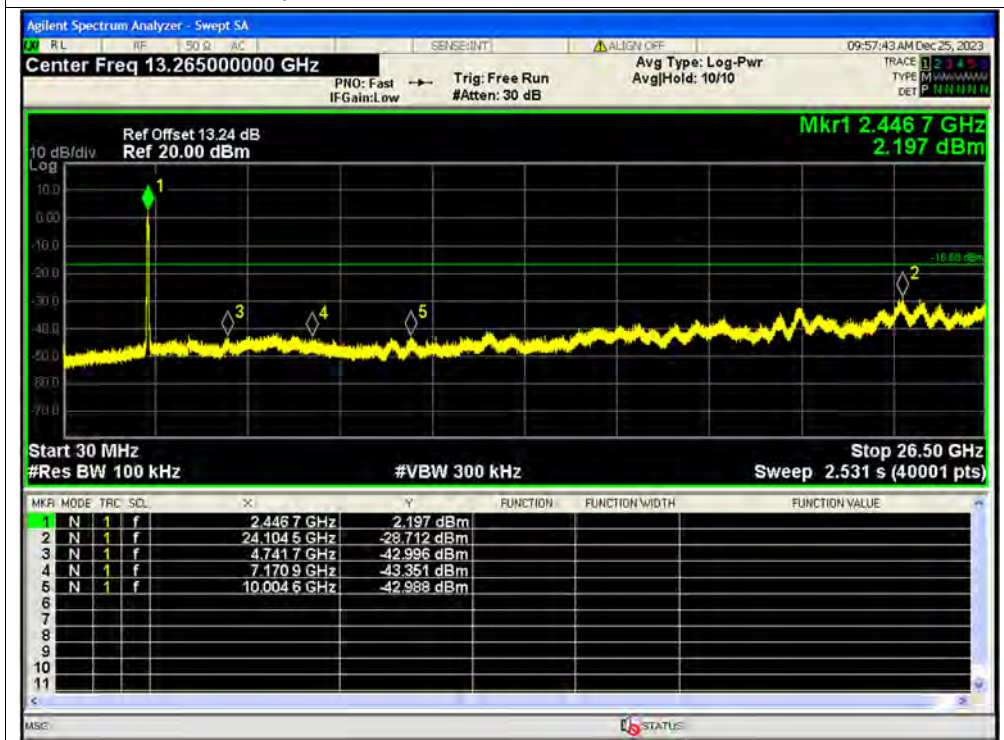




Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission





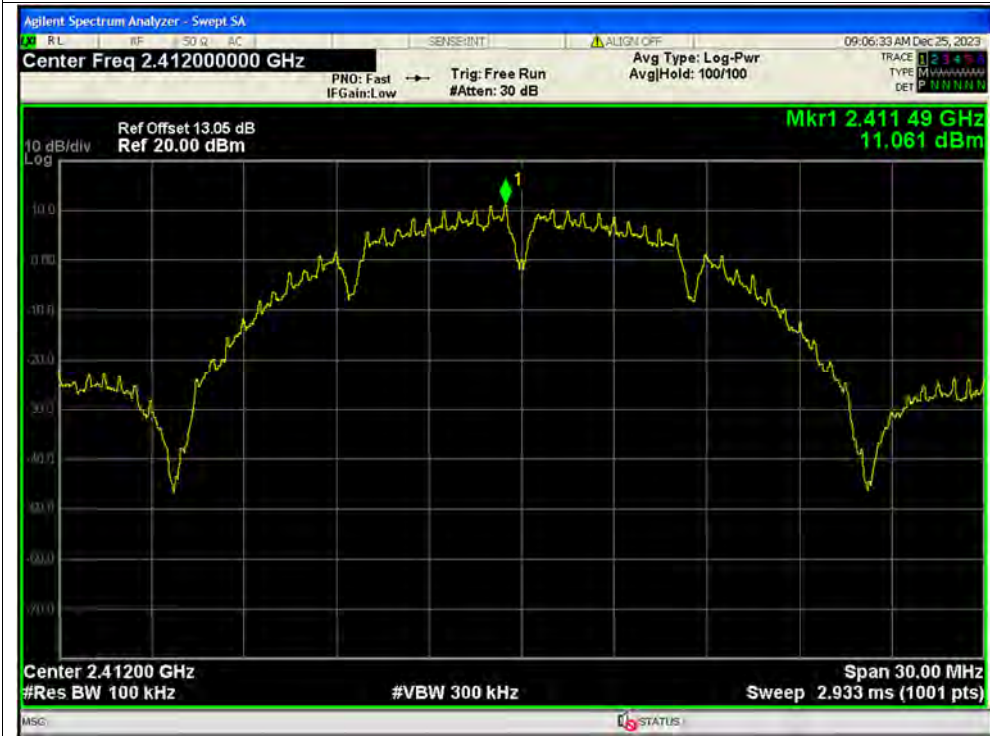
A.6. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-33.16	-20	Pass
NVNT	b	2462	Ant1	-53.51	-20	Pass
NVNT	g	2412	Ant1	-26.91	-20	Pass
NVNT	g	2462	Ant1	-45.21	-20	Pass
NVNT	n20	2412	Ant1	-26.14	-20	Pass
NVNT	n20	2462	Ant1	-42.43	-20	Pass
NVNT	n40	2422	Ant1	-23.44	-20	Pass
NVNT	n40	2452	Ant1	-30.93	-20	Pass

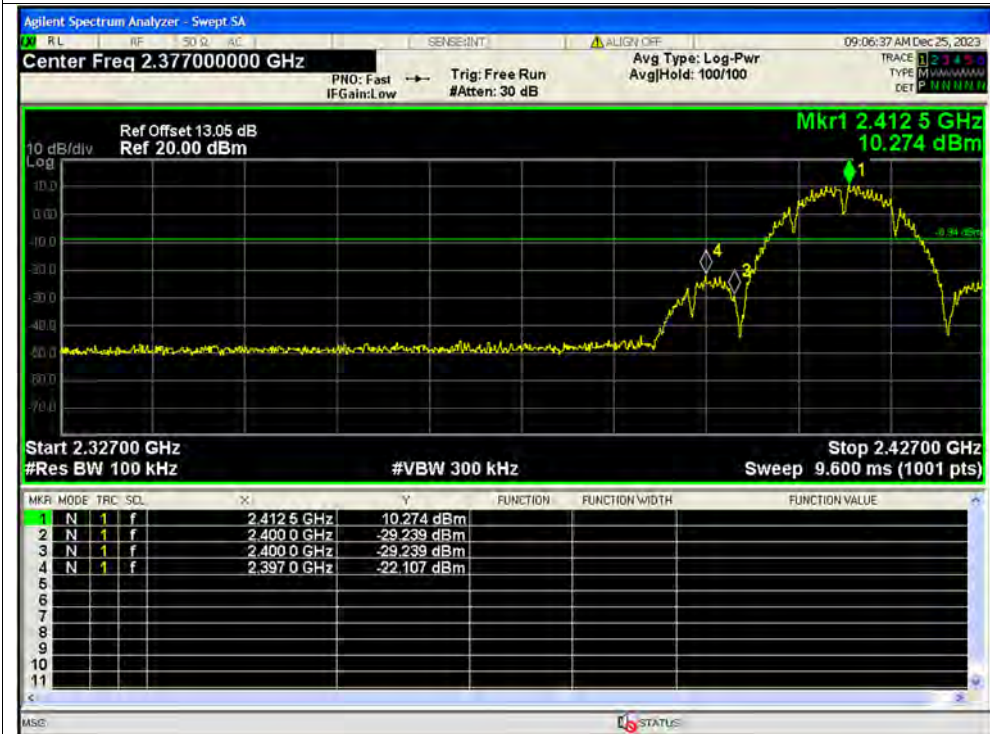


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission





Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission

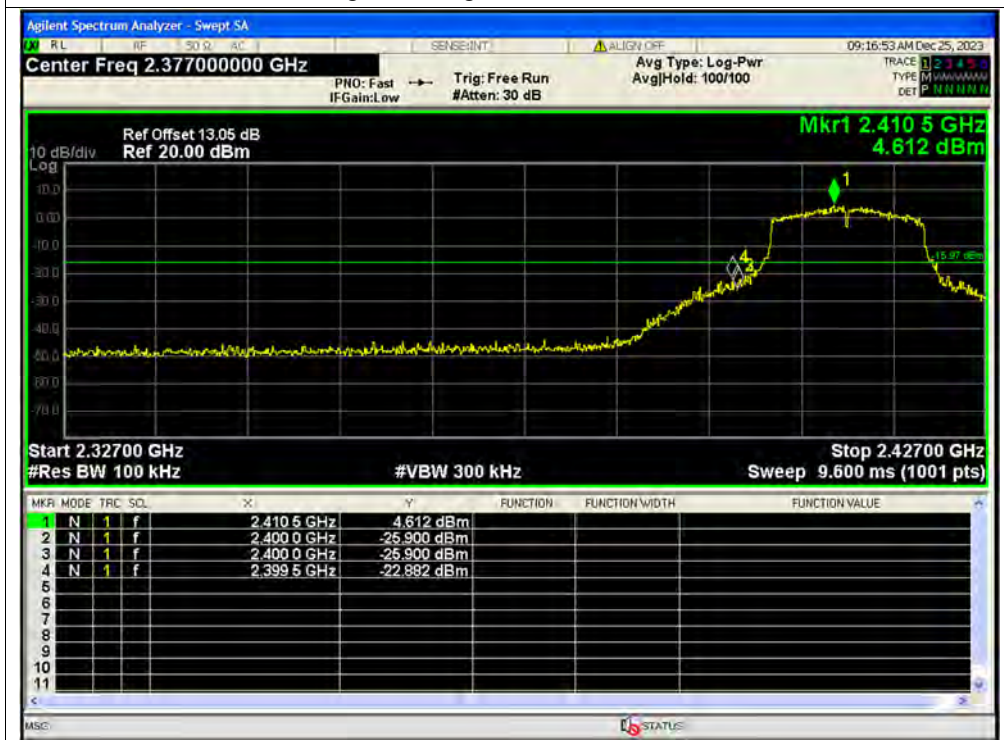




Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission





Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission

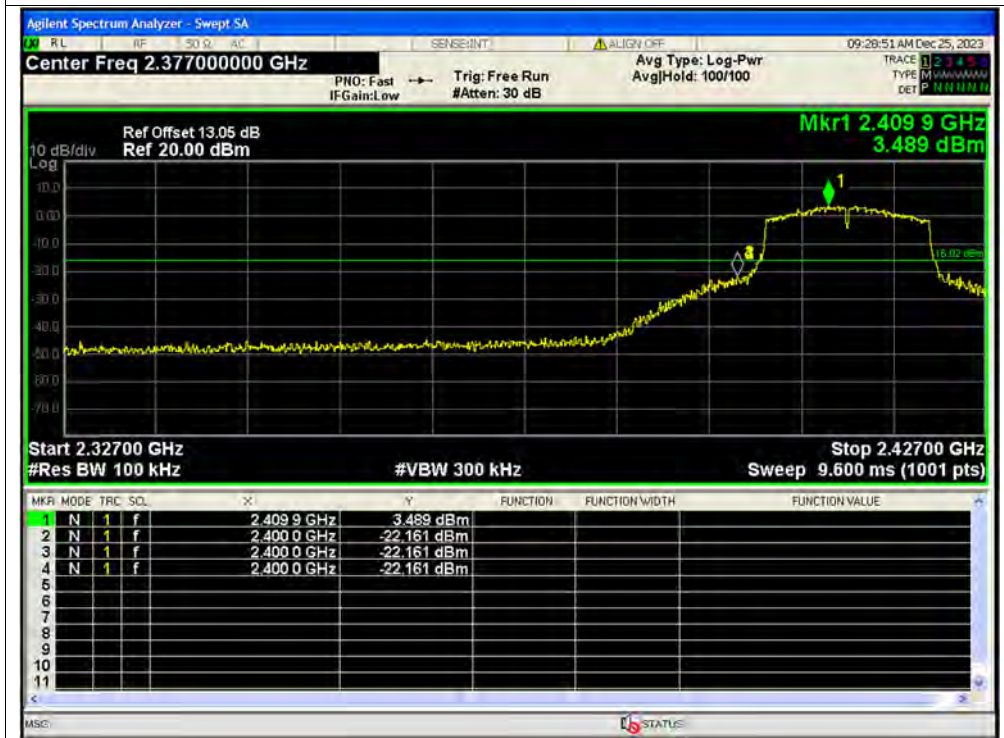




Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission

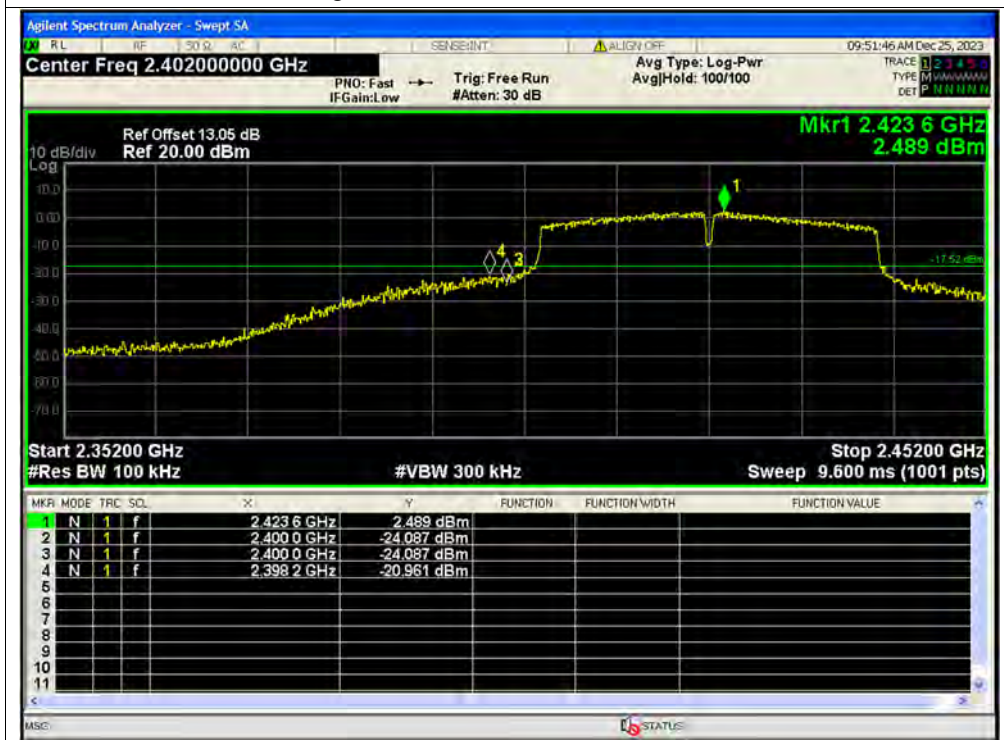




Band Edge NVNT n40 2422MHz Ant1 Ref

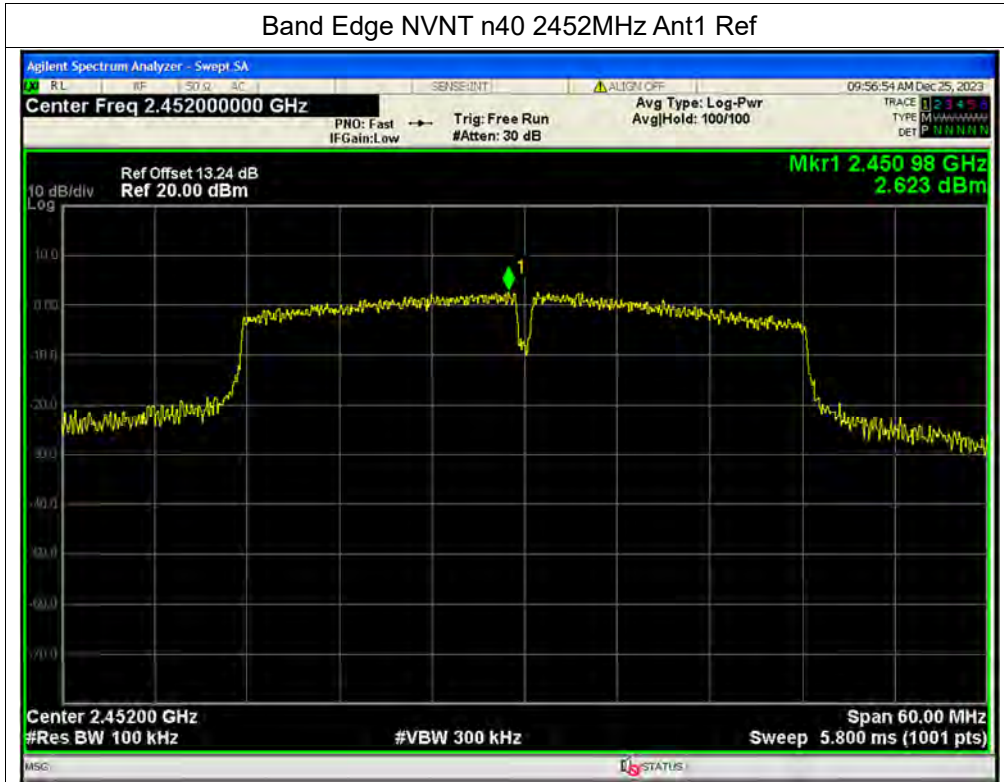


Band Edge NVNT n40 2422MHz Ant1 Emission





Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz 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	-3.4	0	-3.4	8	Pass
NVNT	b	2437	Ant1	-4.31	0	-4.31	8	Pass
NVNT	b	2462	Ant1	-4.71	0	-4.71	8	Pass
NVNT	g	2412	Ant1	-7.88	0	-7.88	8	Pass
NVNT	g	2437	Ant1	-7.79	0	-7.79	8	Pass
NVNT	g	2462	Ant1	-7.53	0	-7.53	8	Pass
NVNT	n20	2412	Ant1	-7.69	0	-7.69	8	Pass
NVNT	n20	2437	Ant1	-8.41	0	-8.41	8	Pass
NVNT	n20	2462	Ant1	-8.21	0	-8.21	8	Pass
NVNT	n40	2422	Ant1	-9.17	0	-9.17	8	Pass
NVNT	n40	2437	Ant1	-9.79	0	-9.79	8	Pass
NVNT	n40	2452	Ant1	-9.22	0	-9.22	8	Pass



Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1

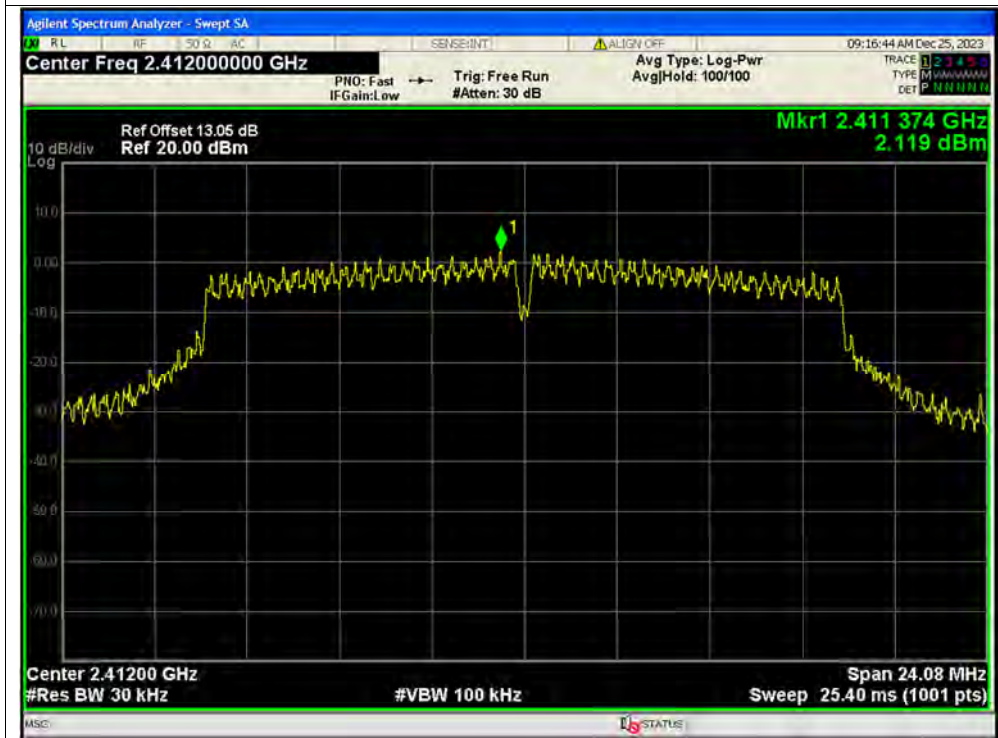




PSD NVNT b 2462MHz Ant1

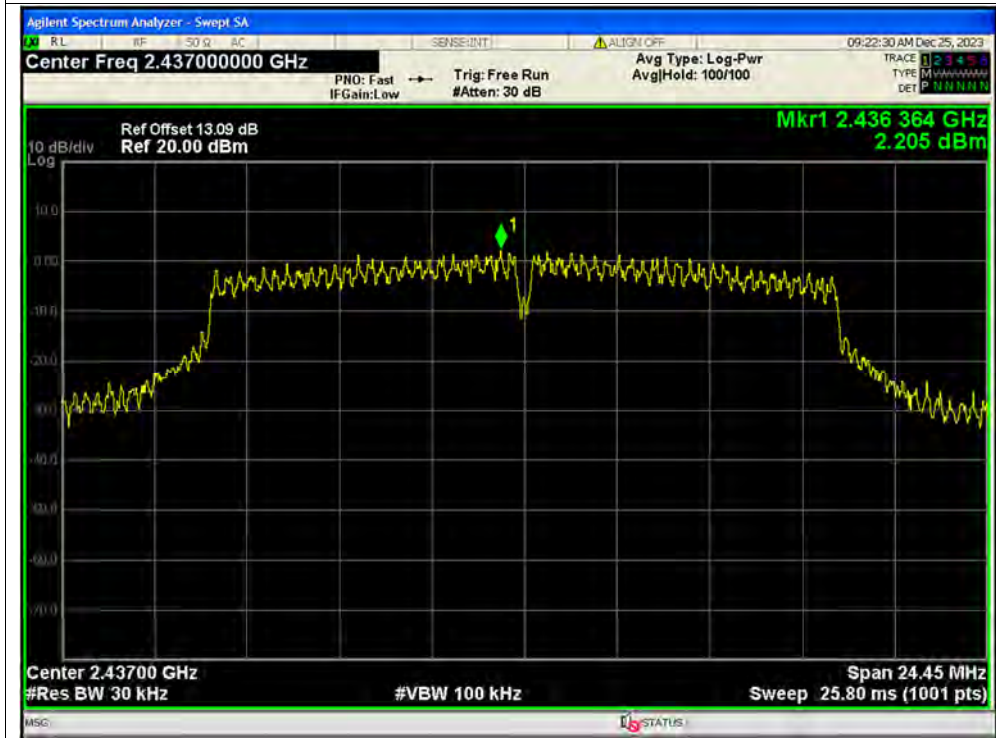


PSD NVNT g 2412MHz Ant1





PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

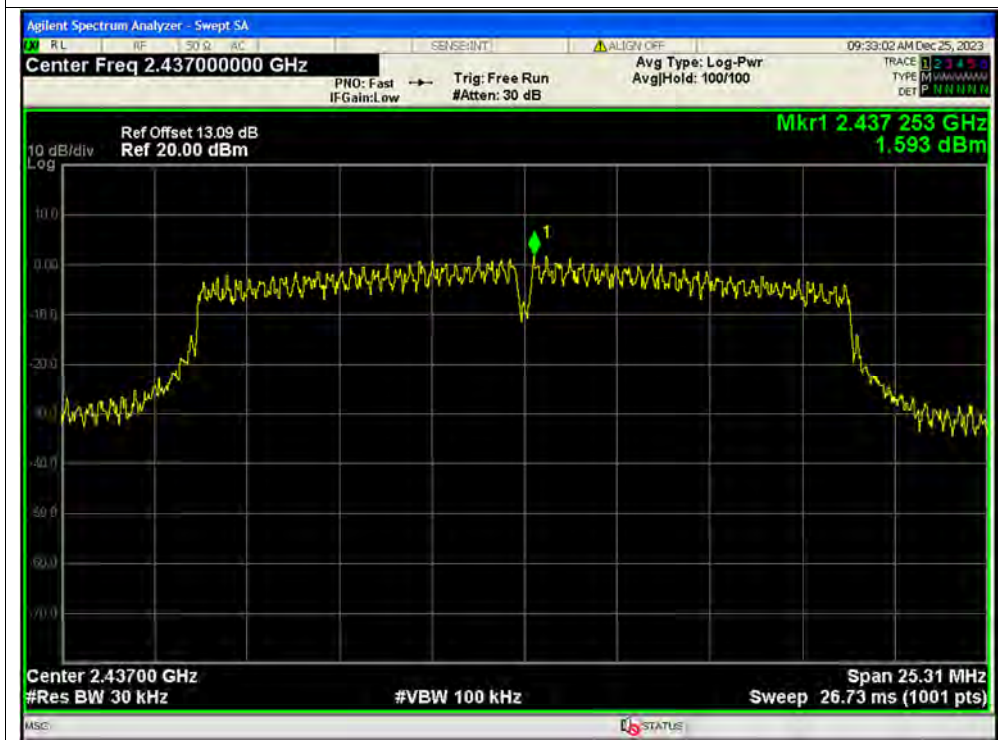




PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1





PSD NVNT n20 2462MHz Ant1



PSD NVNT n40 2422MHz Ant1





PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz 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+ Test plate + WIFI Antenna + DC source + PC +WIFI TX

Test voltage: AC 120V/60Hz

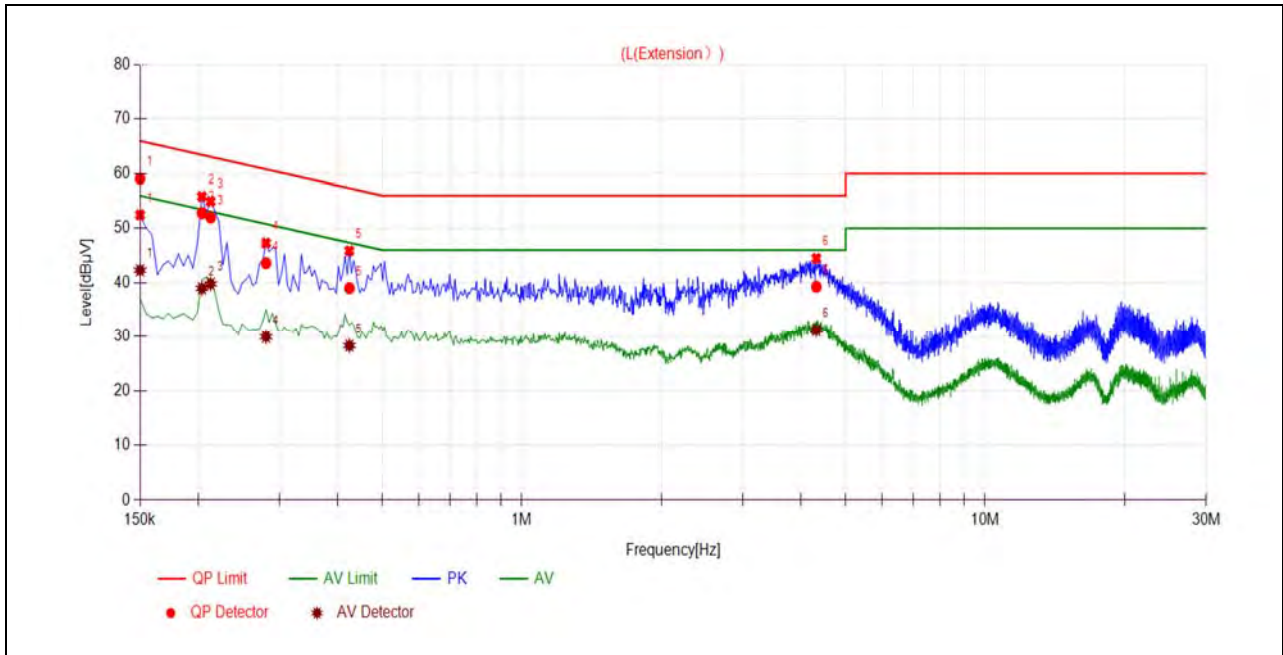
The measurement results are obtained as below:

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

U_R : Receiver Reading

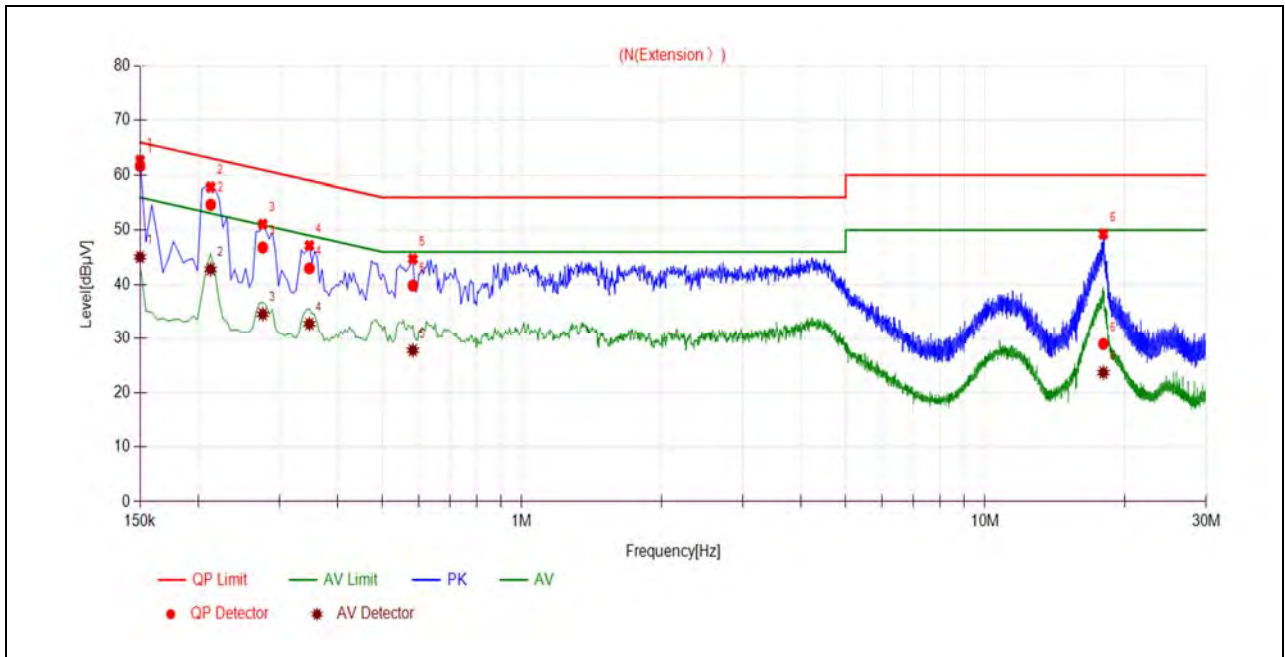
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1500	59.08	42.31	66.00	56.00	Line	PASS
2	0.2040	52.80	38.96	63.45	53.45		PASS
3	0.2130	52.02	39.79	63.09	53.09		PASS
4	0.2805	43.61	29.93	60.80	50.80		PASS
5	0.4245	39.01	28.29	57.36	47.36		PASS
6	4.3211	39.26	31.19	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	0.1500	61.64	45.07	66.00	56.00	Neutral	PASS
2	0.2130	54.67	42.83	63.09	53.09		PASS
3	0.2760	46.81	34.58	60.94	50.94		PASS
4	0.3480	43.00	32.79	59.01	49.01		PASS
5	0.5820	39.84	27.77	56.00	46.00		PASS
6	17.9955	28.96	23.66	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

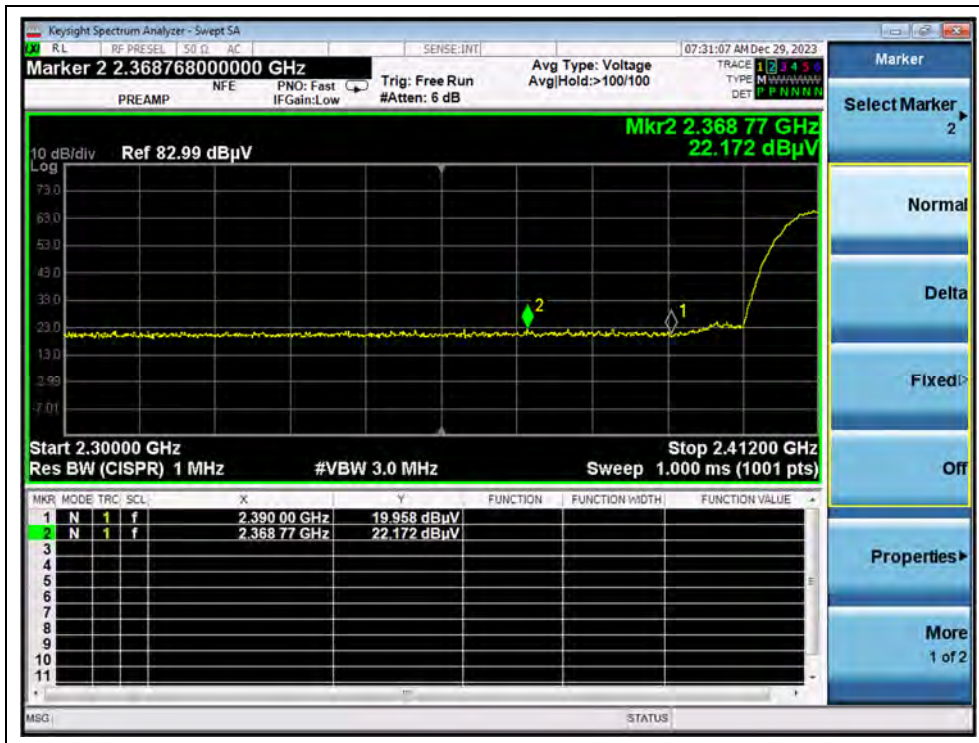
G_{preamp} : Preamplifier Gain

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						
1	2368.77	PK	22.17	5.78	27.50	55.45	74	PASS
1	2374.14	AV	2.40	5.78	27.50	35.68	54	PASS
11	2483.96	PK	21.93	5.78	27.50	55.21	74	PASS
11	2484.72	AV	0.10	5.78	27.50	33.38	54	PASS



(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 11, 802.11b)

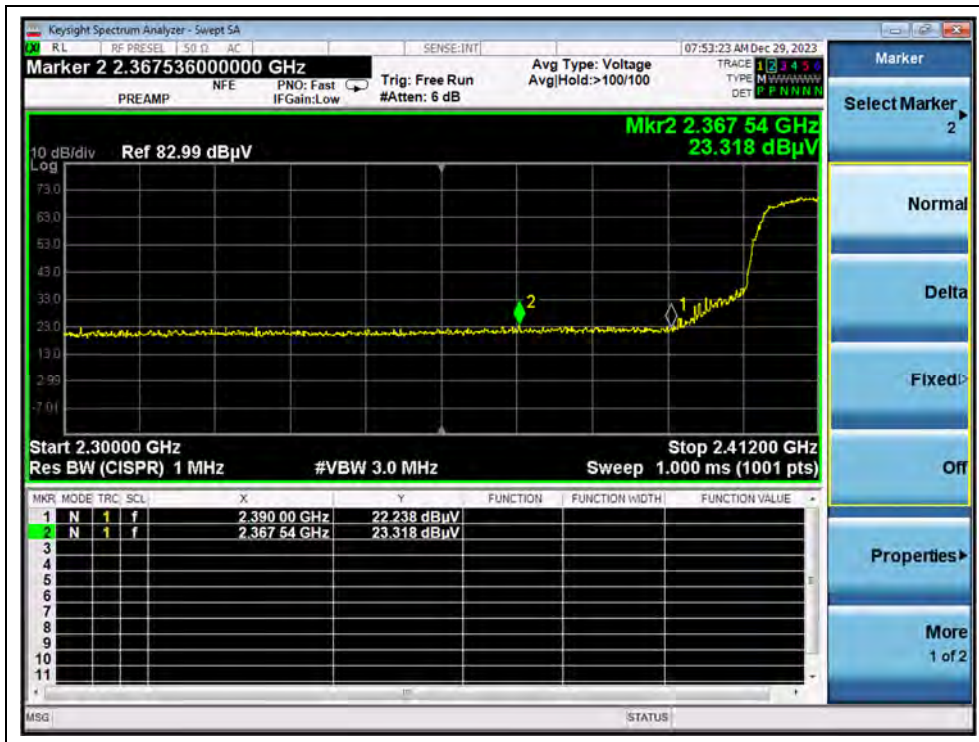


(AVERAGE, Channel 11, 802.11b)



802.11g Mode

Channel	Frequency (MHz)	Detector	Receiver Reading	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV	U _R (dBμV)					
1	2367.54	PK	23.32	5.78	27.50	56.60	74	PASS
1	2390.00	AV	5.28	5.78	27.50	38.56	54	PASS
11	2484.72	PK	22.63	5.78	27.50	55.91	74	PASS
11	2483.89	AV	4.08	5.78	27.50	37.36	54	PASS



(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



(PEAK, Channel 11, 802.11g)

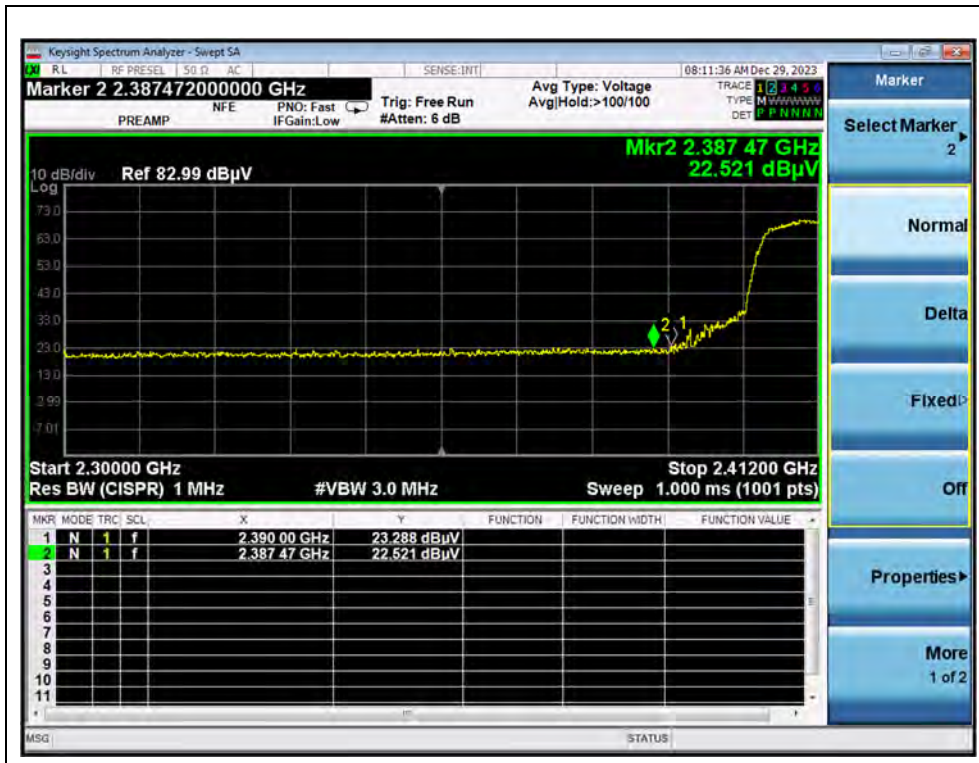


(AVERAGE, Channel 11, 802.11g)



802.11n (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	2390.00	PK	23.29	5.78	27.50	56.57	74	PASS
1	2390.00	AV	4.93	5.78	27.50	38.21	54	PASS
11	2483.81	PK	22.30	5.78	27.50	55.58	74	PASS
11	2483.77	AV	3.99	5.78	27.50	37.27	54	PASS



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



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



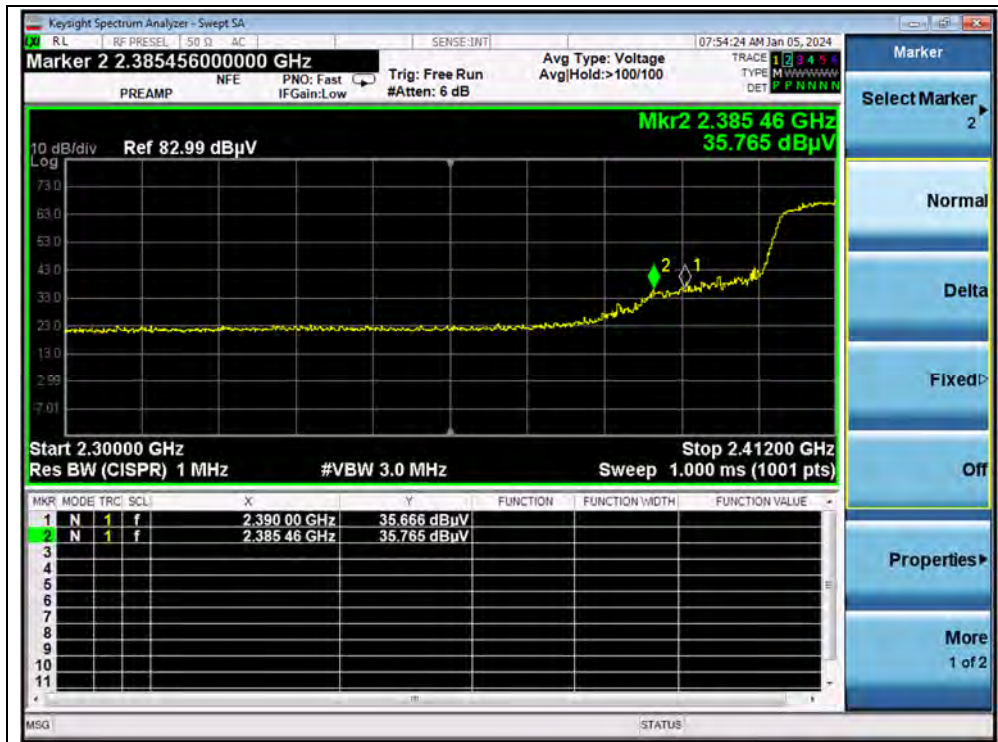
(PEAK, Channel 11, 802.11n (HT20))



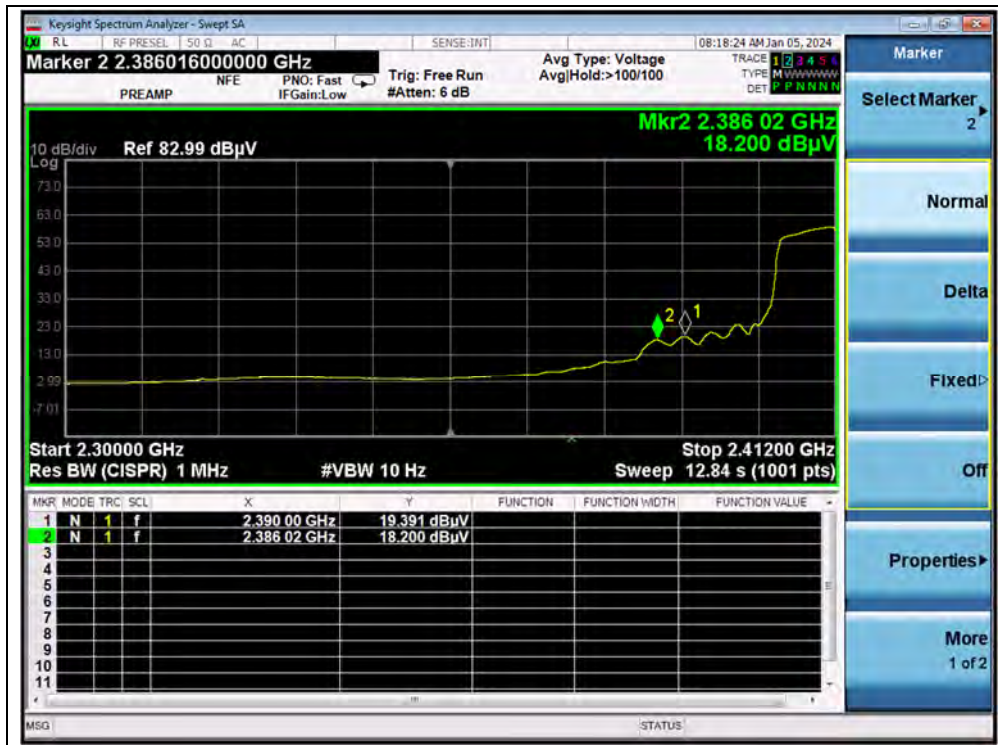
(AVERAGE, Channel 11, 802.11n (HT20))

802.11n (HT40) 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						
3	2385.46	PK	35.77	5.78	27.50	69.05	74	PASS
3	2390.00	AV	19.39	5.78	27.50	52.67	54	PASS
9	2485.18	PK	37.22	5.78	27.50	70.50	74	PASS
9	2484.19	AV	17.00	5.78	27.50	50.28	54	PASS



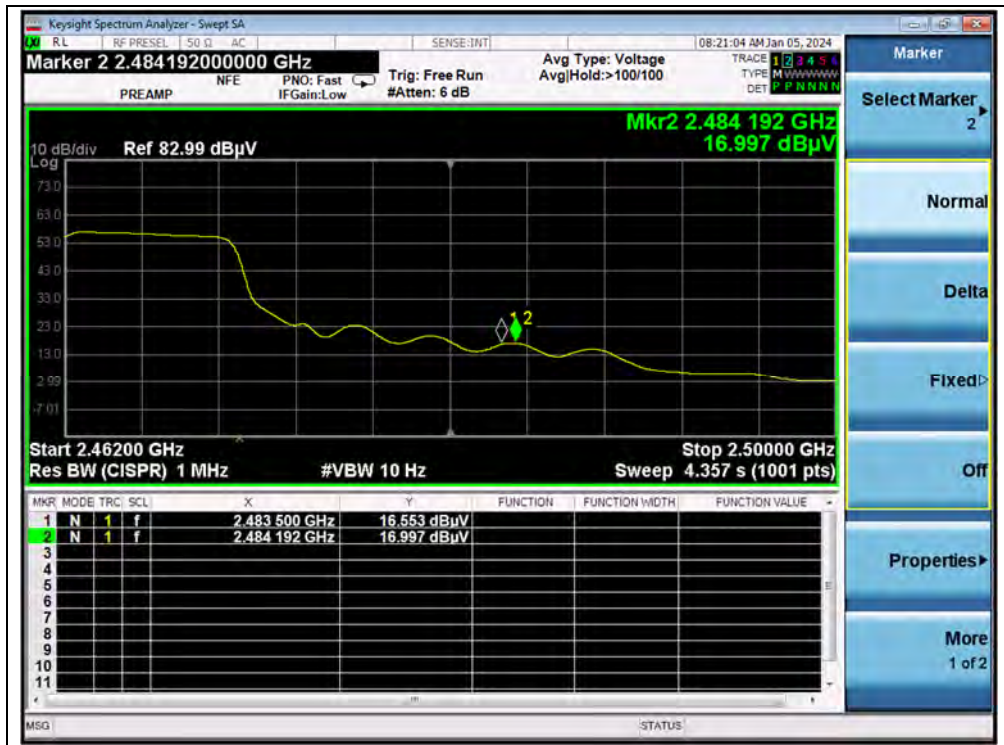
(PEAK, Channel 3, 802.11n (HT40))



(AVERAGE, Channel 3, 802.11n (HT40))



(PEAK, Channel 9, 802.11n (HT40))



(AVERAGE, Channel 9, 802.11n (HT40))



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.

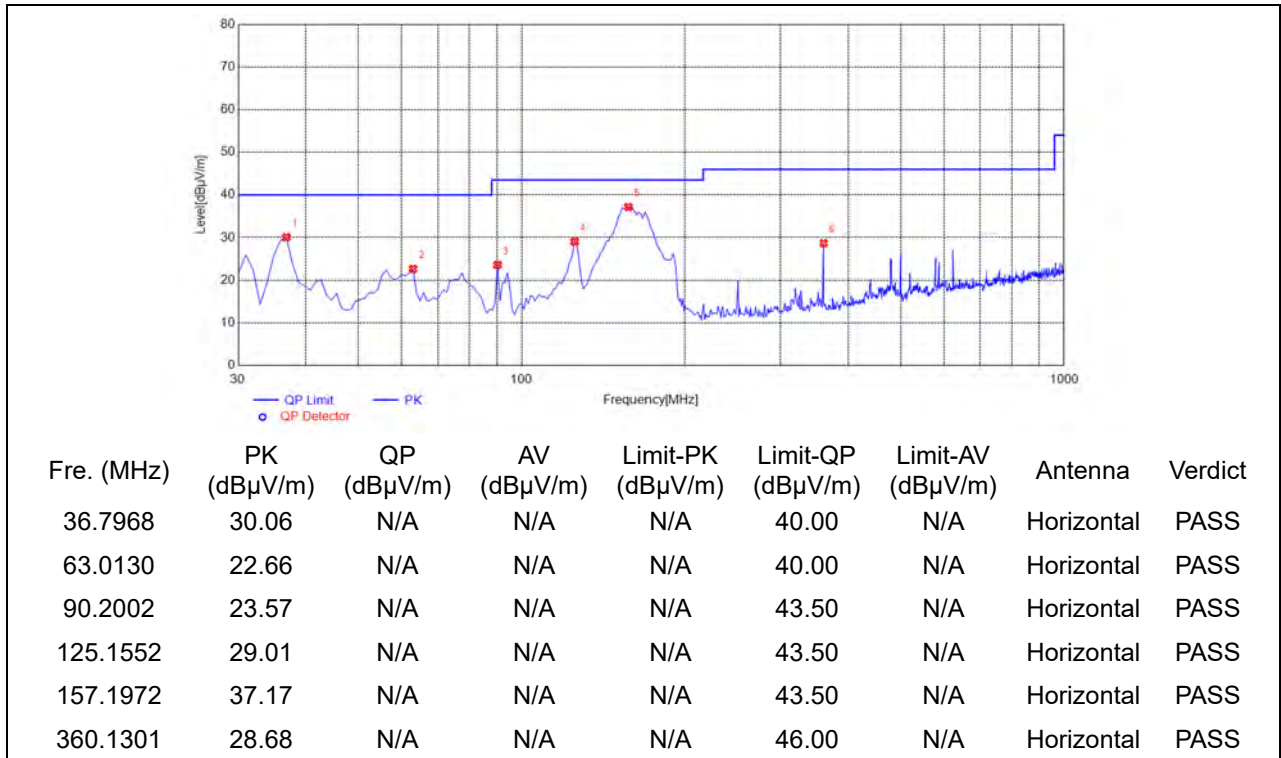
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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.

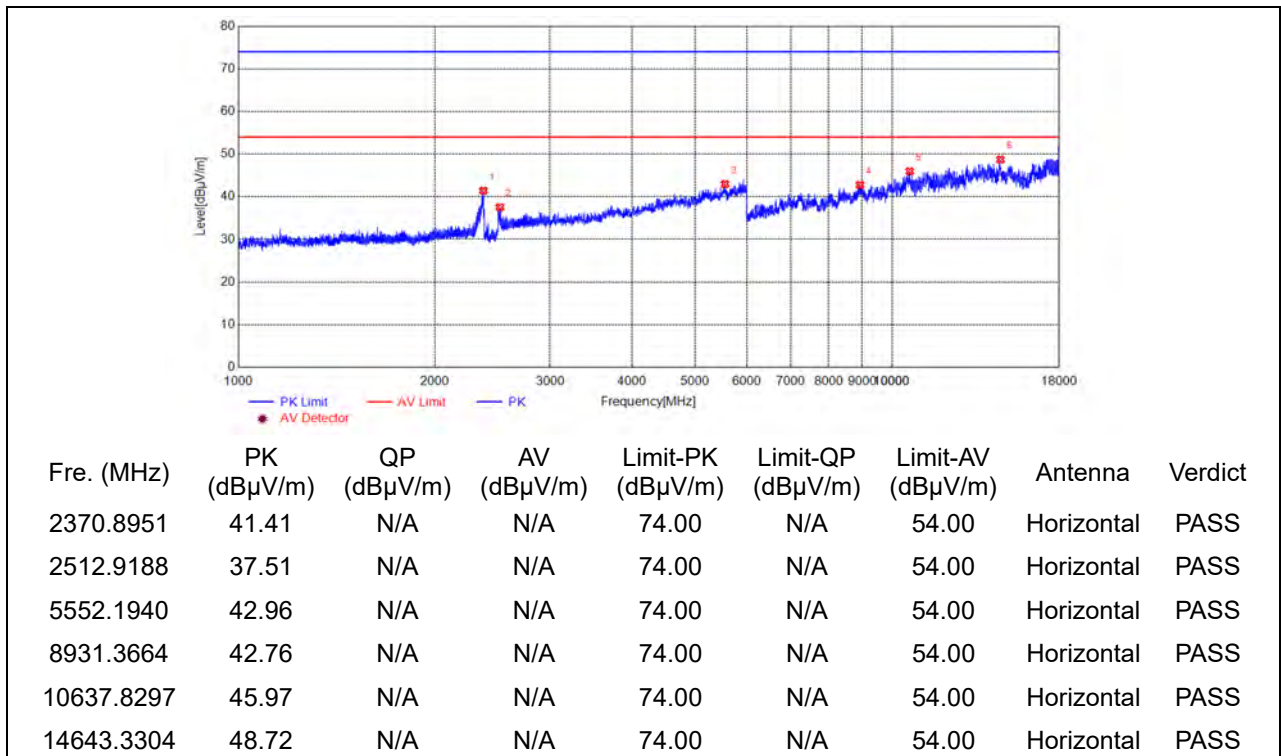


802.11b Mode

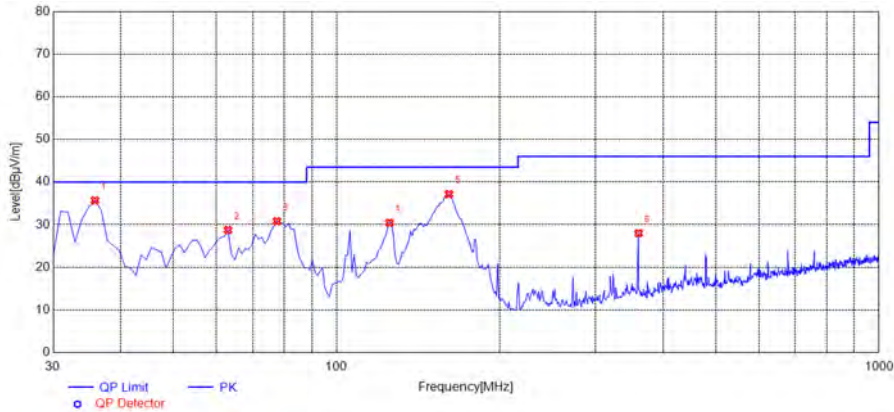
Plot for Channel 1



(Antenna Horizontal, 30MHz to 1GHz)

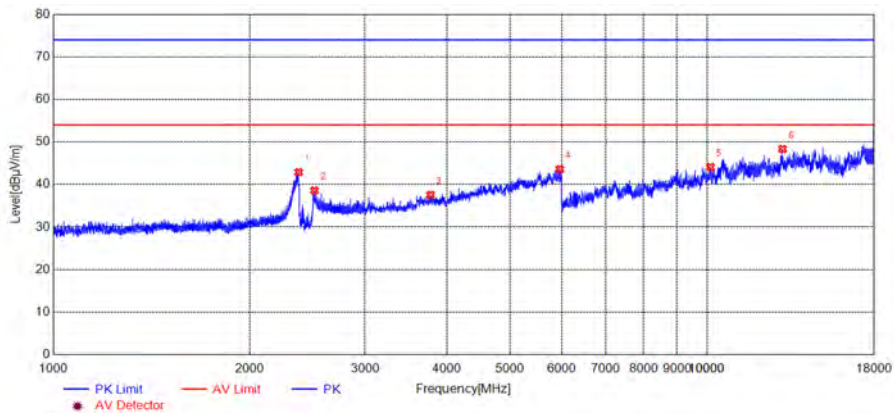


(Antenna Horizontal, 1GHz to 18GHz)



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
35.8258	35.69	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
63.0130	28.75	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
77.5776	30.80	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
125.1552	30.45	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
161.0811	37.17	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
360.1301	28.00	N/A	N/A	N/A	46.00	N/A	Vertical	PASS

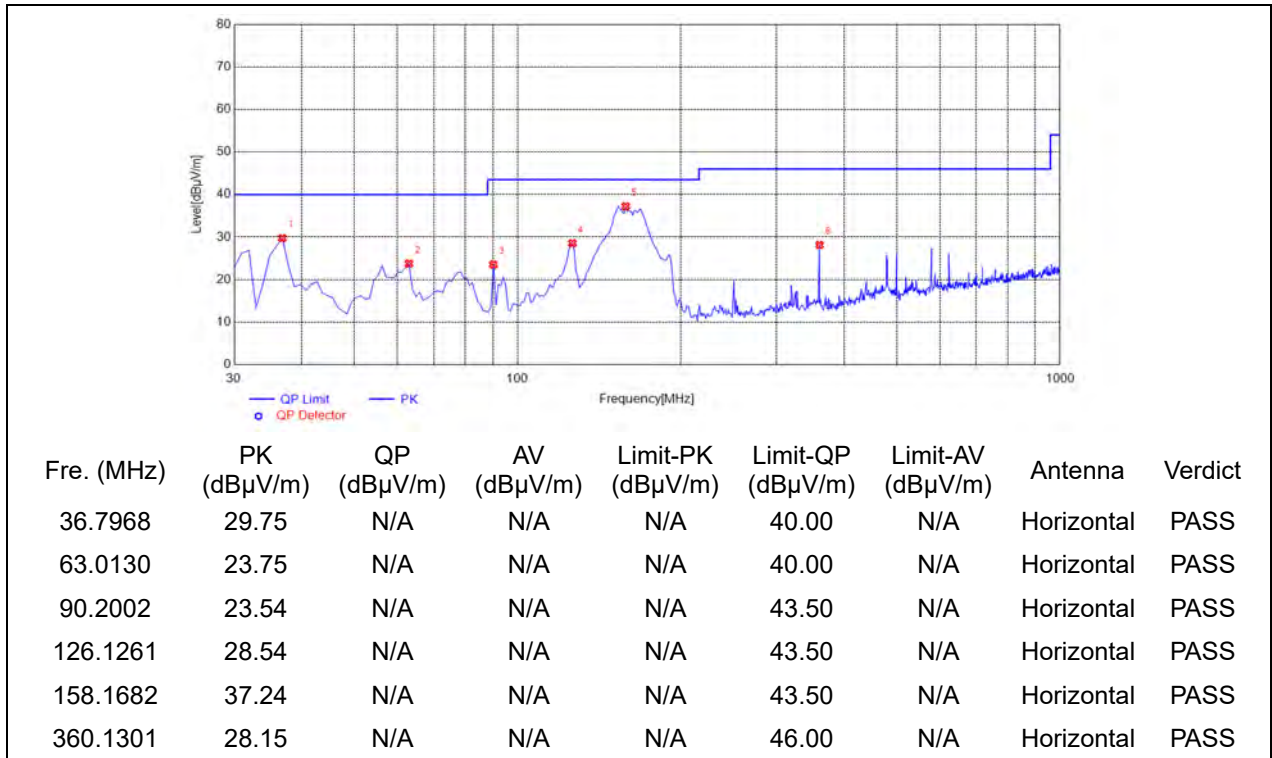
(Antenna Vertical, 30MHz to 1GHz)



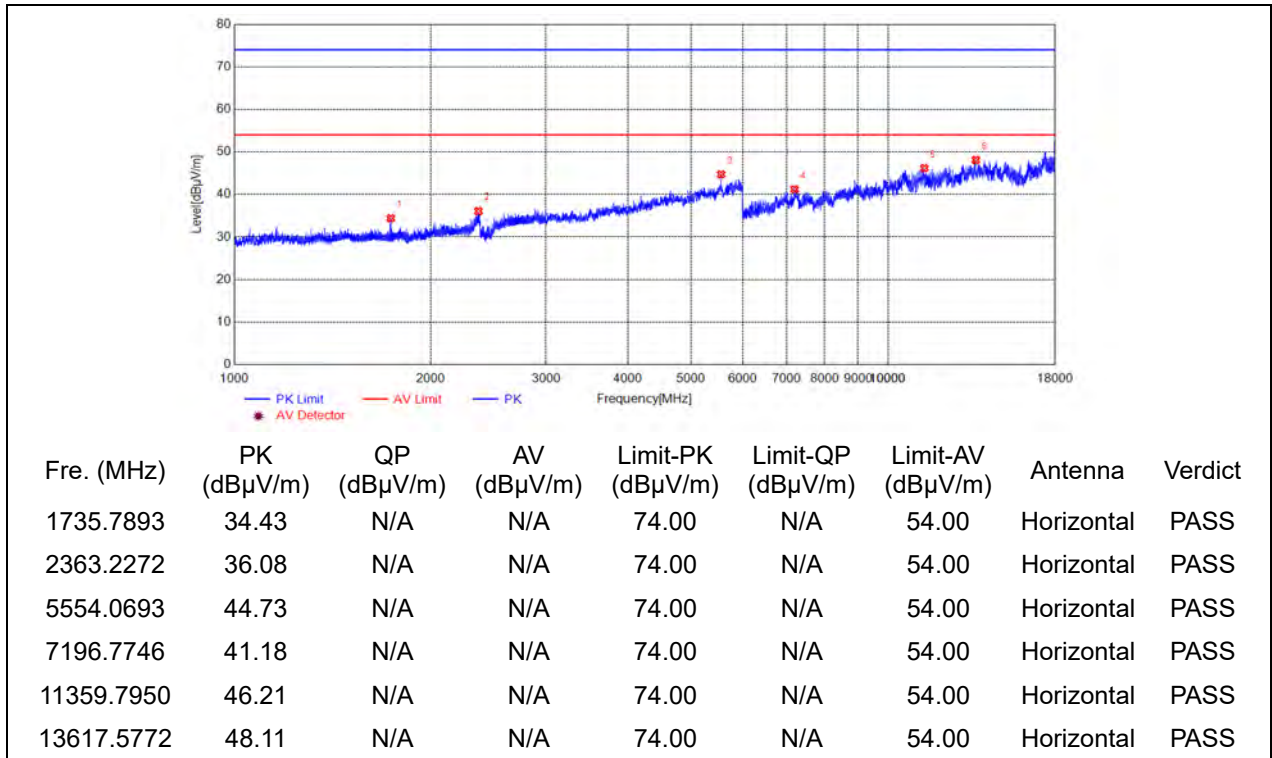
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
2373.5623	42.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2509.5849	38.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3774.4718	37.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5953.4942	43.60	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10122.1403	44.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13045.6307	48.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

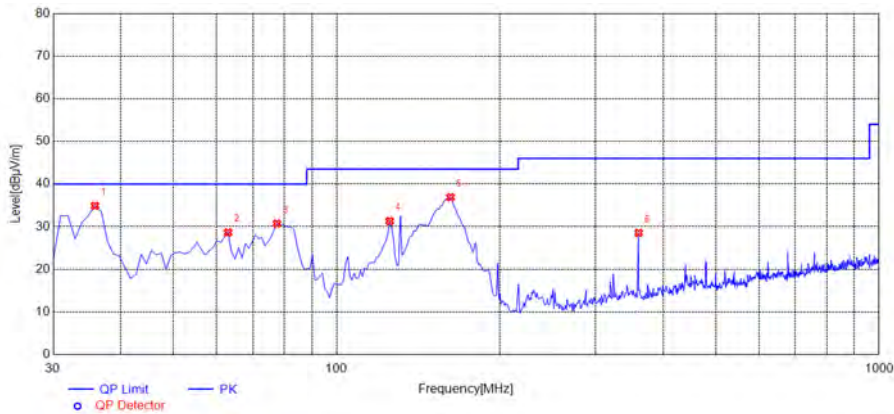
Plot for Channel 6



(Antenna Horizontal, 30MHz to 1GHz)

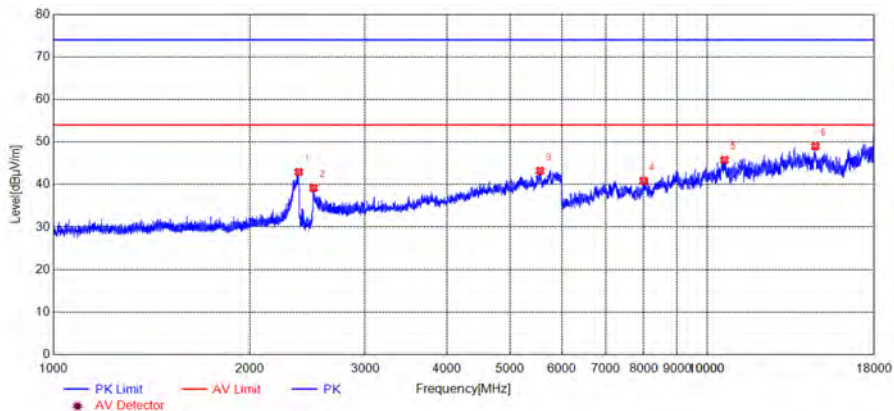


(Antenna Horizontal, 1GHz to 18GHz)



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
35.8258	34.88	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
63.0130	28.64	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
77.5776	30.71	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
125.1552	31.30	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
162.0521	36.89	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
360.1301	28.54	N/A	N/A	N/A	46.00	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)

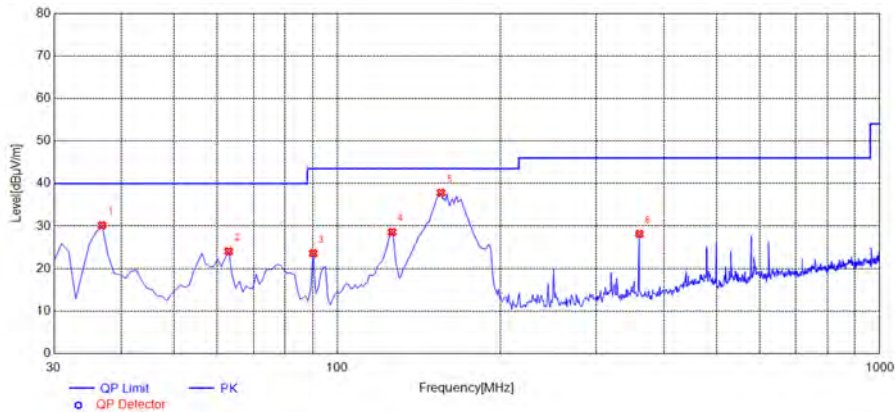


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
2373.8956	42.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2501.5836	39.16	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5552.1940	43.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7995.6245	40.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10628.4536	45.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14633.9542	49.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

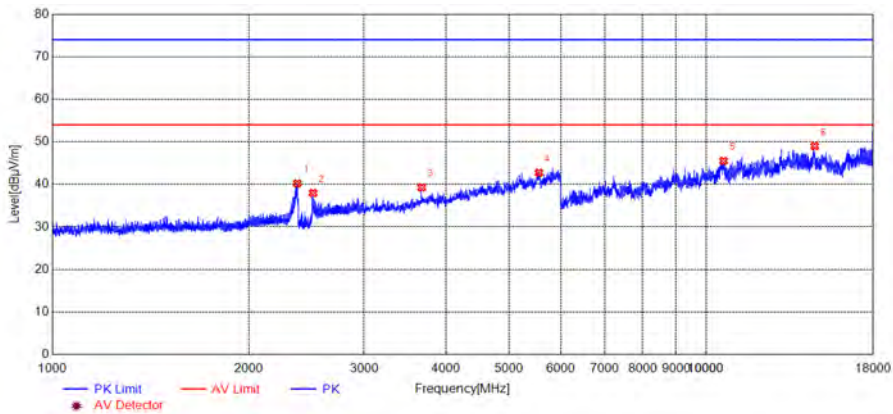


Plot for Channel 11



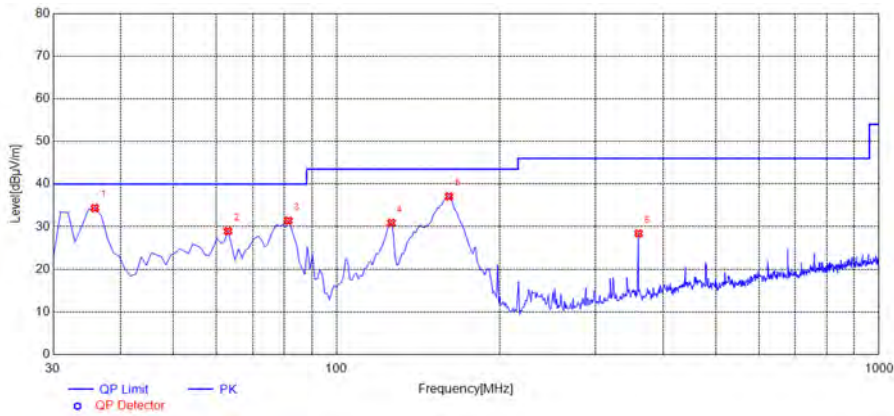
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
36.7968	30.17	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
63.0130	24.04	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
90.2002	23.61	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
126.1261	28.60	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
155.2553	37.83	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
360.1301	28.18	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



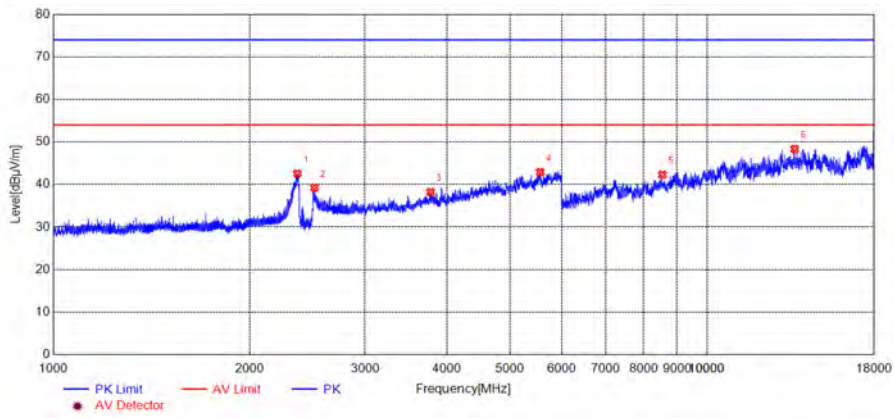
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
2370.5618	40.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2505.5843	37.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3673.2092	39.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5550.3188	42.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10632.2040	45.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14654.5818	48.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 1GHz 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
35.8258	34.35	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
63.0130	28.95	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
81.4615	31.39	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
126.1261	30.88	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
161.0811	37.09	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
360.1301	28.40	N/A	N/A	N/A	46.00	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)



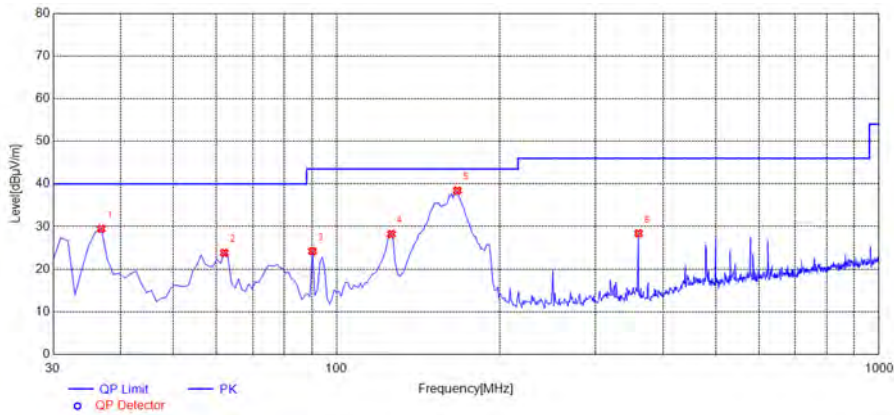
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
2362.8938	42.60	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2509.9183	39.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3776.3470	38.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5557.8197	42.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8546.9434	42.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13610.0763	48.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)



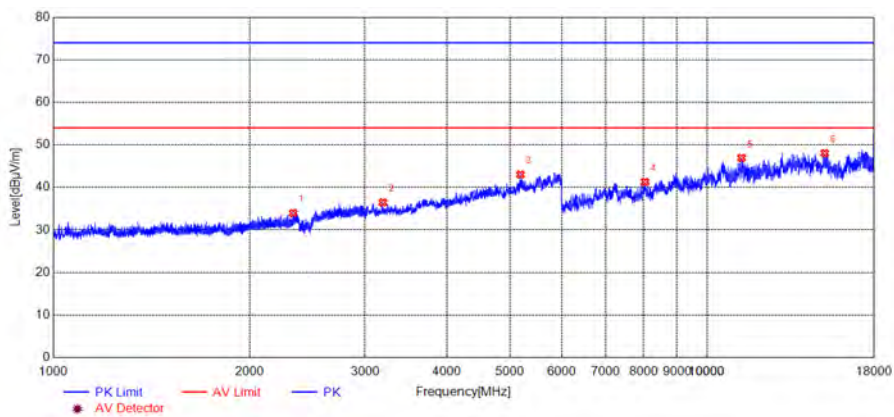
802.11g Mode

Plot for Channel 1



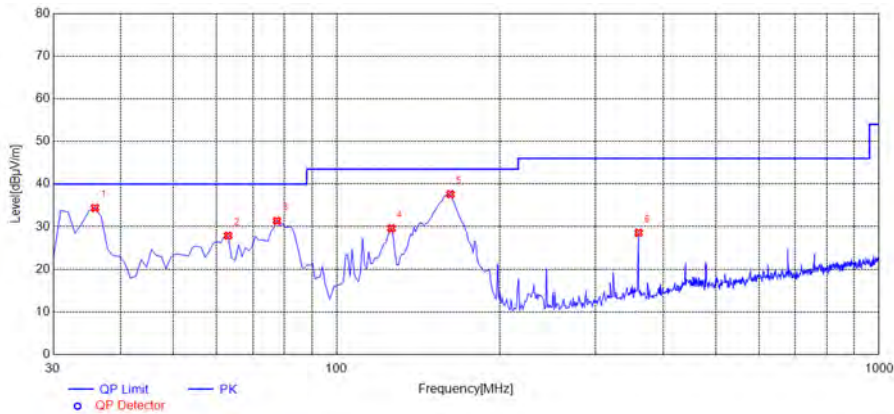
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
36.7968	29.48	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
62.0420	23.82	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
90.2002	24.21	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
126.1261	28.25	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
166.9069	38.42	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
360.1301	28.41	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



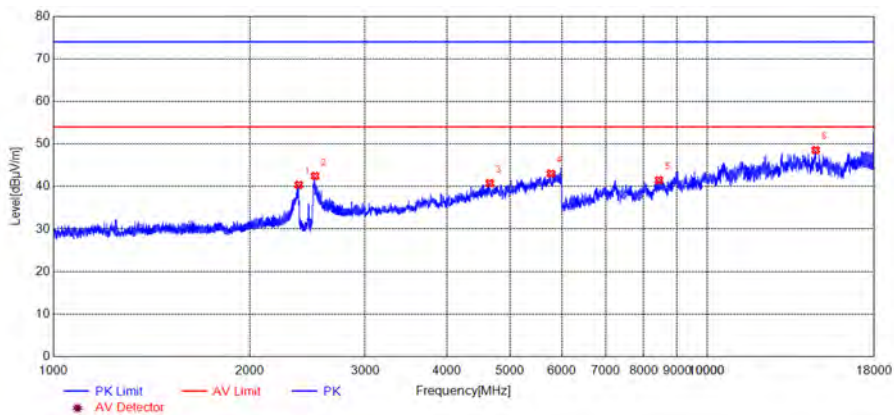
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
2328.5548	33.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3193.1491	36.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5182.7728	43.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8038.7548	41.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11292.2865	46.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
15129.0161	48.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 1GHz 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
35.8258	34.41	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
63.0130	27.88	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
77.5776	31.37	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
126.1261	29.61	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
162.0521	37.60	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
360.1301	28.59	N/A	N/A	N/A	46.00	N/A	Vertical	PASS

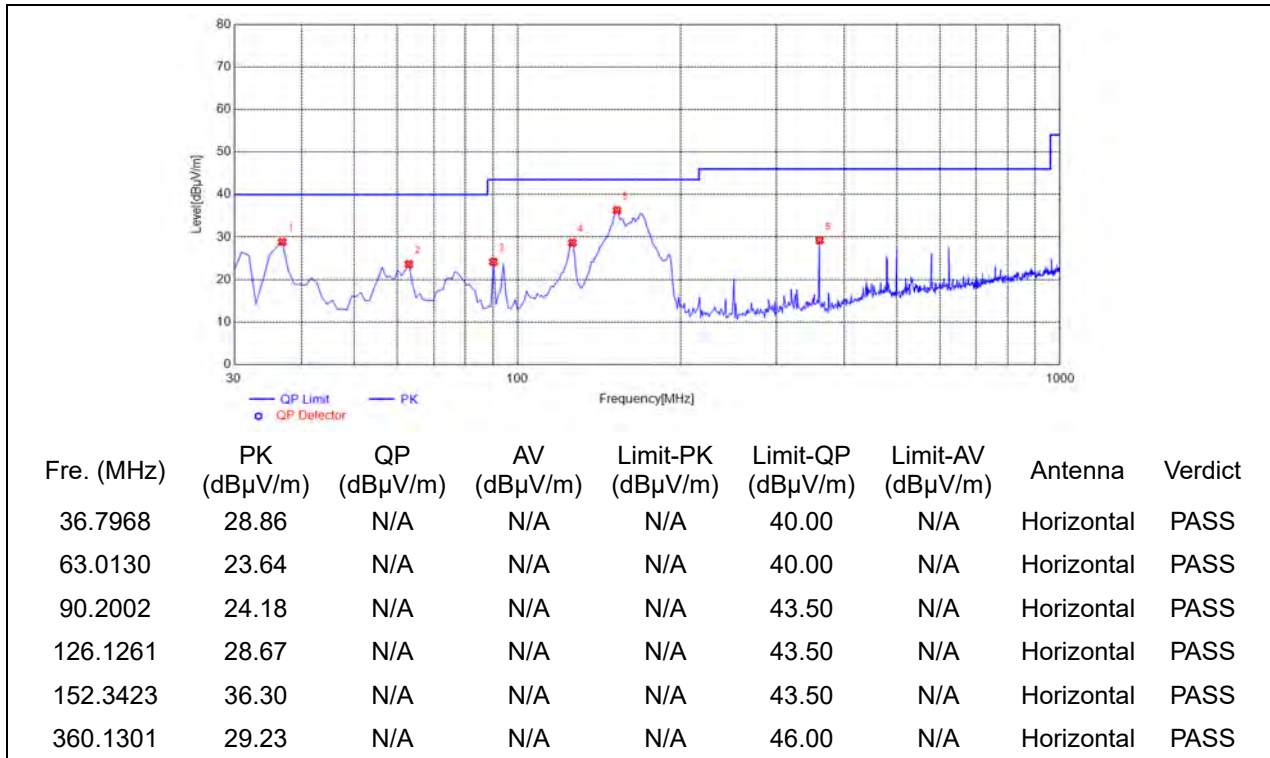
(Antenna Vertical, 30MHz to 1GHz)



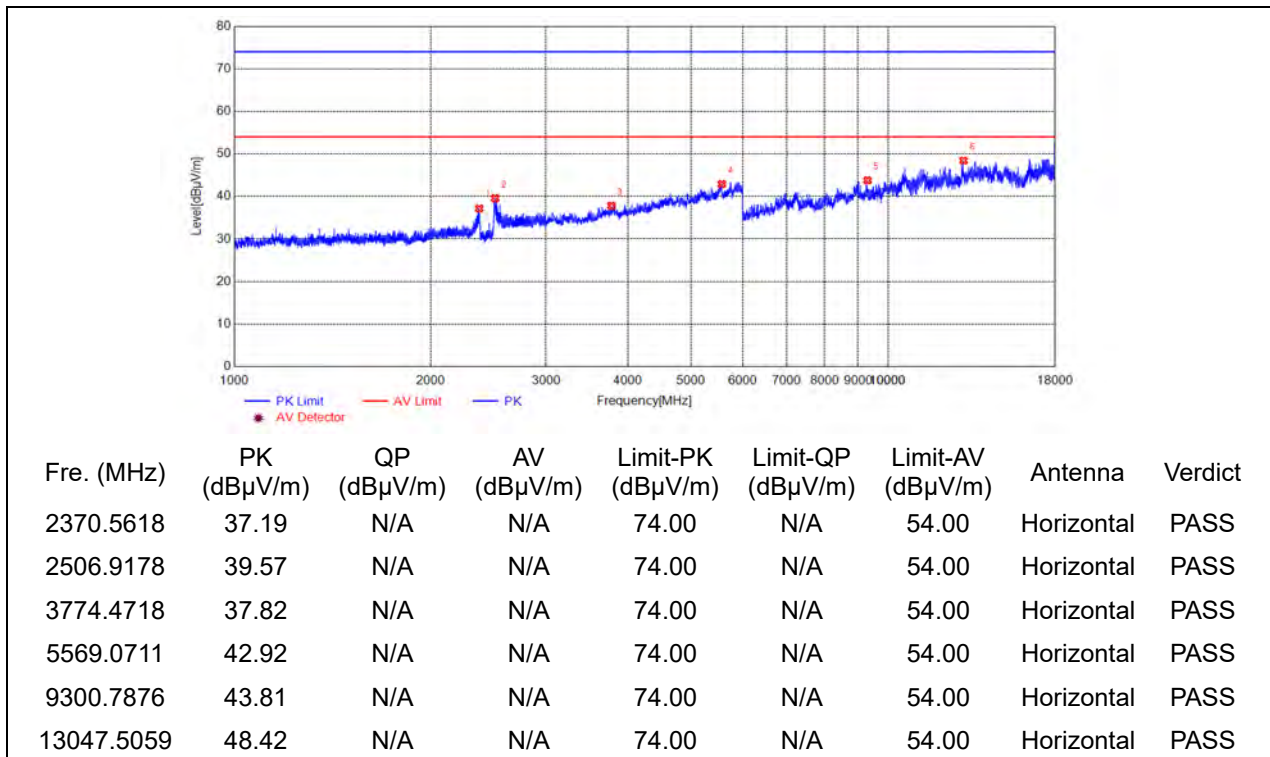
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
2373.8956	40.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2513.9190	42.48	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4652.0815	40.81	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5765.9707	43.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8441.9302	41.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14654.5818	48.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

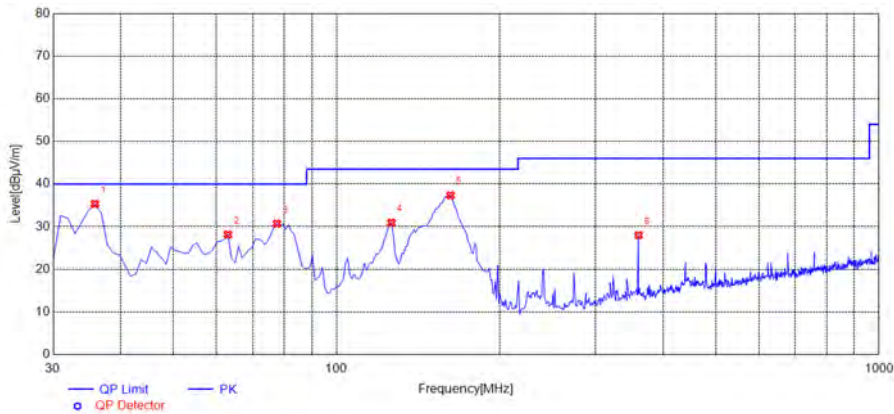
Plot for Channel 6



(Antenna Horizontal, 30MHz to 1GHz)

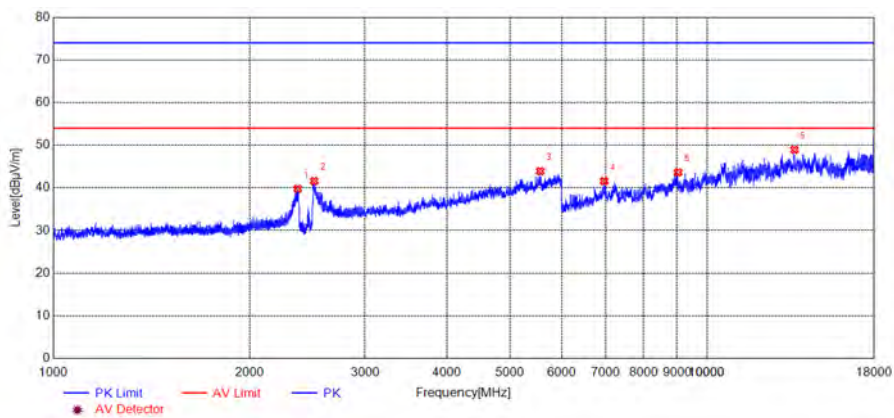


(Antenna Horizontal, 30MHz to 18GHz)



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
35.8258	35.33	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
63.0130	28.18	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
77.5776	30.71	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
126.1261	30.93	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
162.0521	37.33	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
360.1301	28.00	N/A	N/A	N/A	46.00	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)

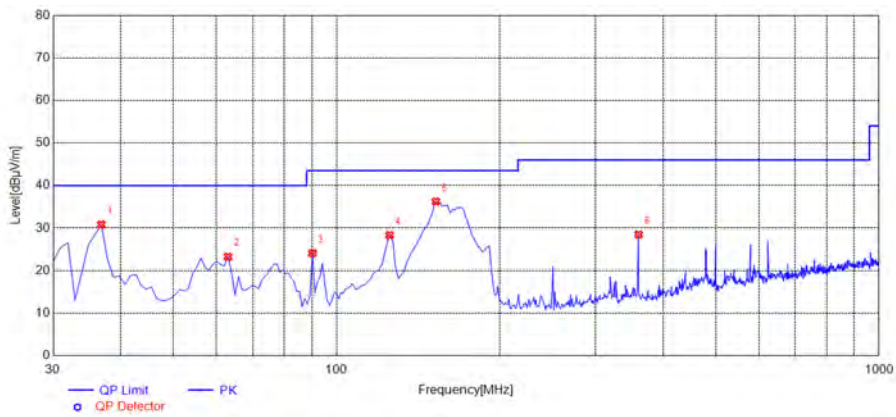


Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
2365.8943	39.80	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2507.2512	41.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5557.8197	43.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6958.6198	41.58	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9030.7538	43.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13602.5753	48.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

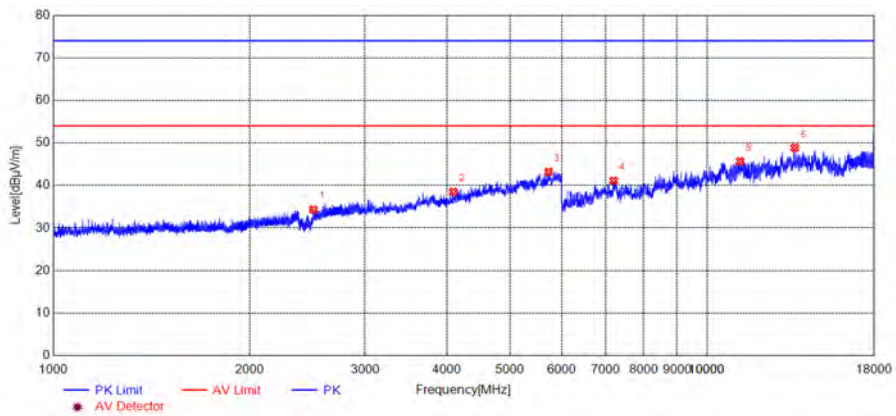


Plot for Channel 11



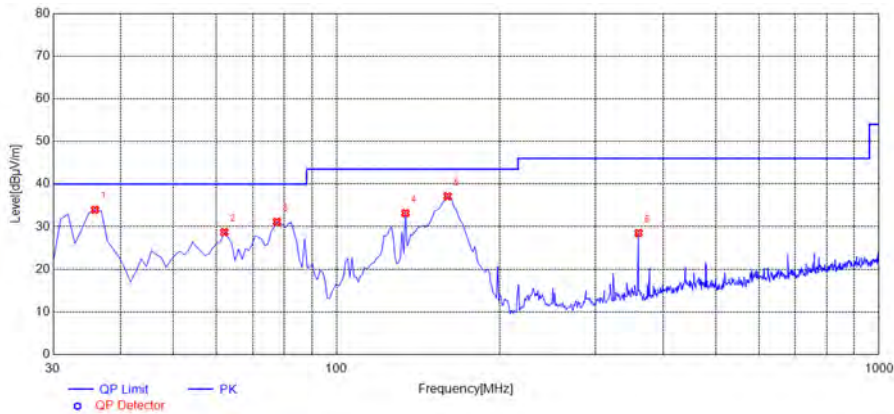
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
36.7968	30.85	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
63.0130	23.26	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
90.2002	24.08	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
125.1552	28.32	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
152.3423	36.23	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
360.1301	28.47	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



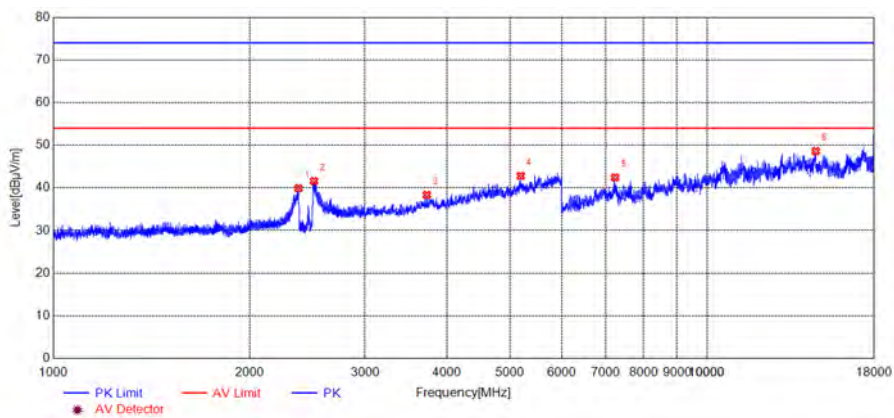
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
2499.9167	34.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4091.3864	38.50	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5722.8404	43.19	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7196.7746	41.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11236.0295	45.67	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13613.8267	48.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 1GHz 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
35.8258	33.94	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
62.0420	28.72	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
77.5776	31.13	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
133.8939	33.18	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
160.1101	37.13	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
360.1301	28.50	N/A	N/A	N/A	46.00	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)



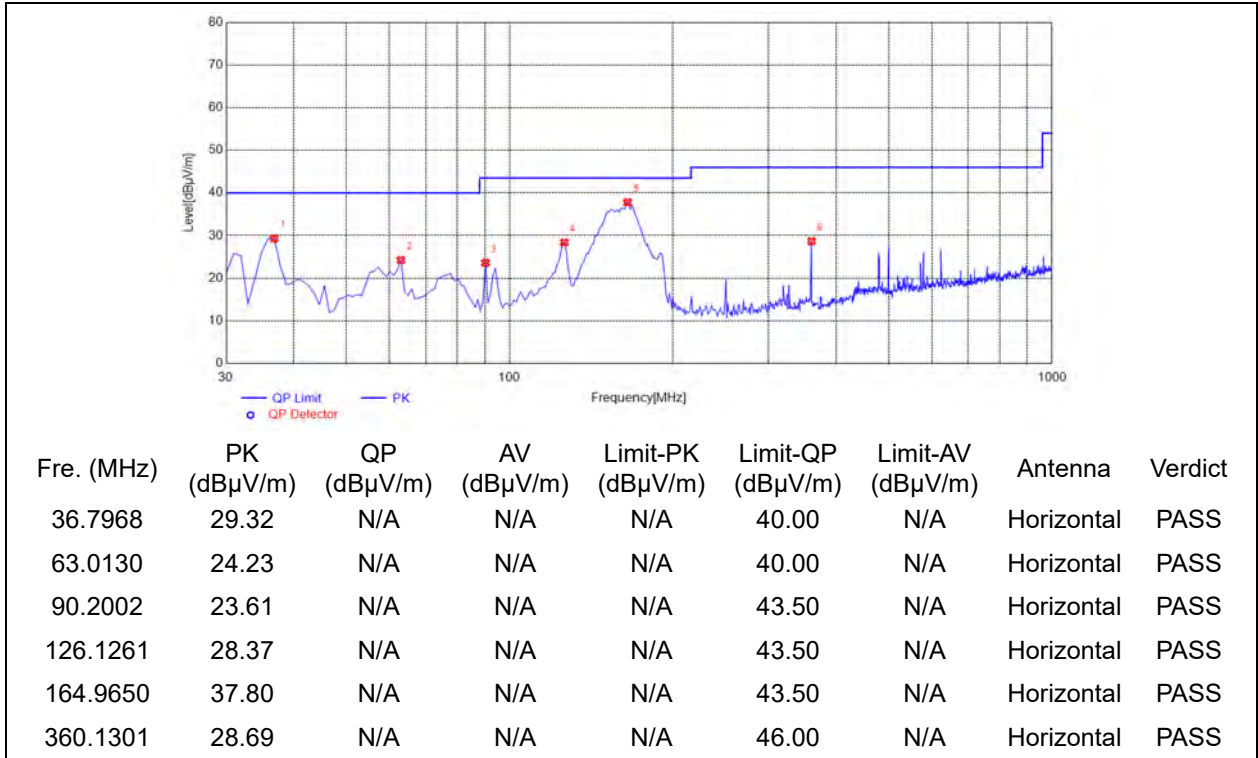
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
2372.2287	39.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2505.5843	41.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3727.5909	38.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5188.3986	42.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7230.5288	42.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14665.8332	48.63	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

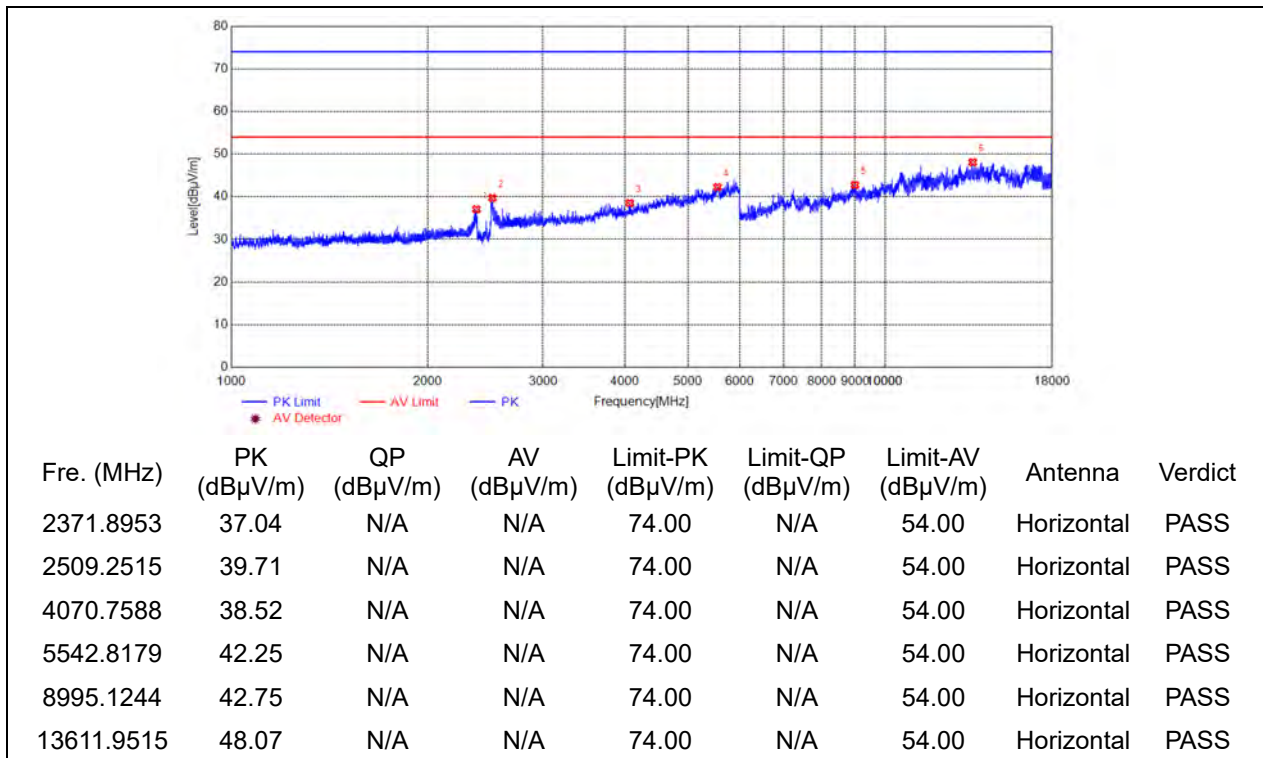


802.11n (HT20) Mode

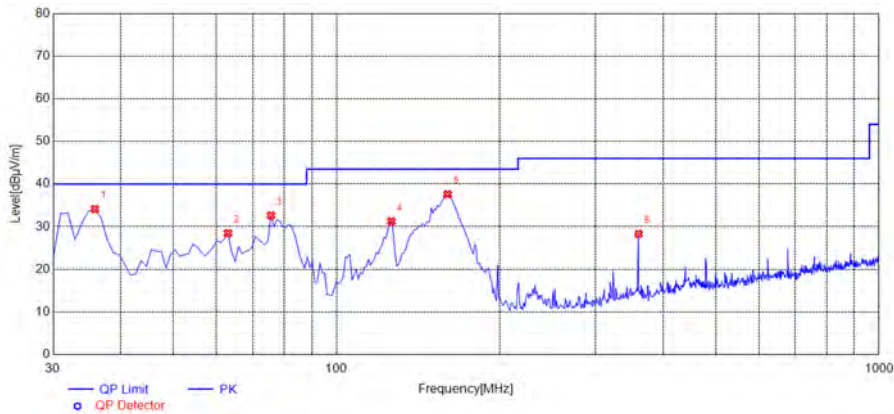
Plot for Channel 1



(Antenna Horizontal, 30MHz to 1GHz)

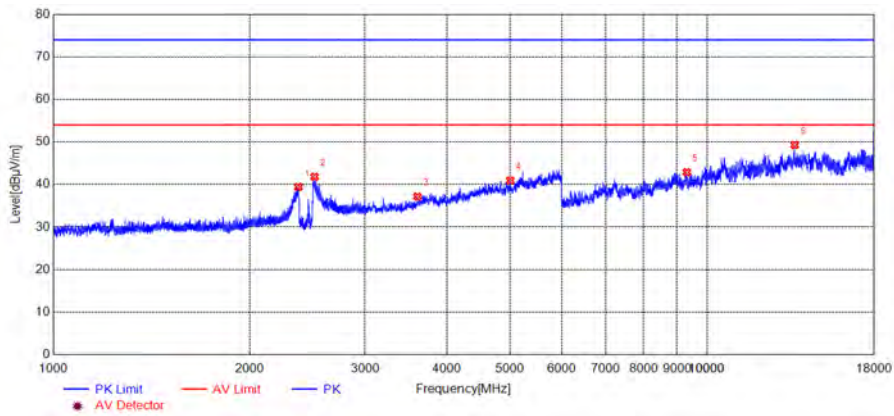


(Antenna Horizontal, 1GHz to 18GHz)



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
35.8258	34.12	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
63.0130	28.48	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
75.6356	32.62	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
126.1261	31.25	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
160.1101	37.59	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
360.1301	28.32	N/A	N/A	N/A	46.00	N/A	Vertical	PASS

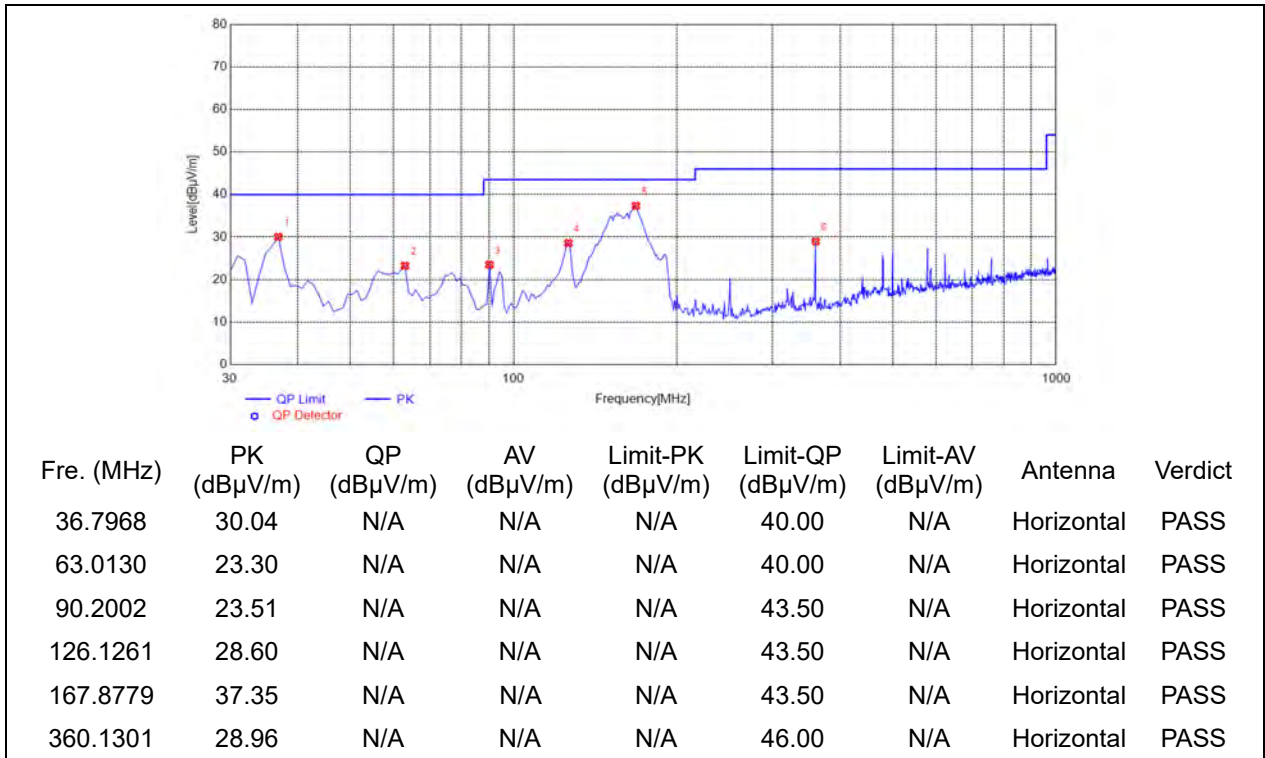
(Antenna Vertical, 30MHz to 1GHz)



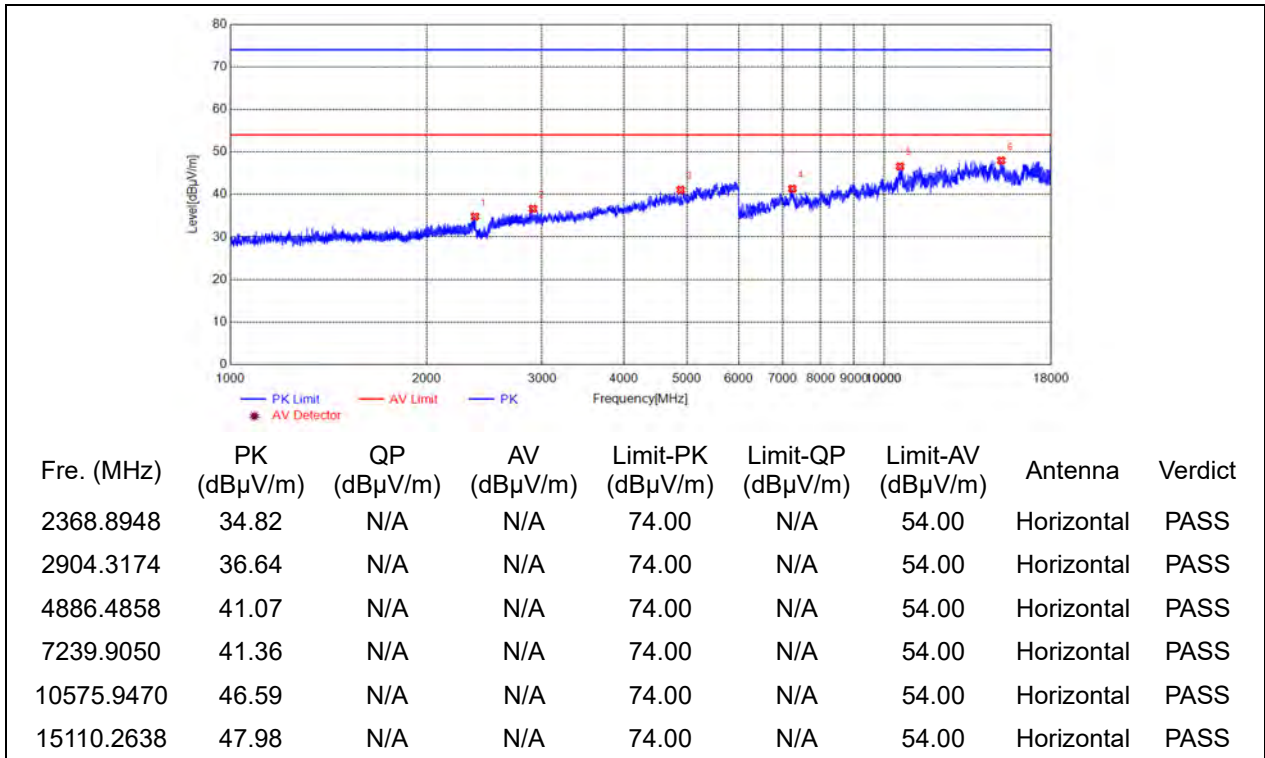
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
2371.5619	39.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2510.5851	41.81	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3605.7007	37.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5000.8751	40.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9308.2885	42.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13611.9515	49.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

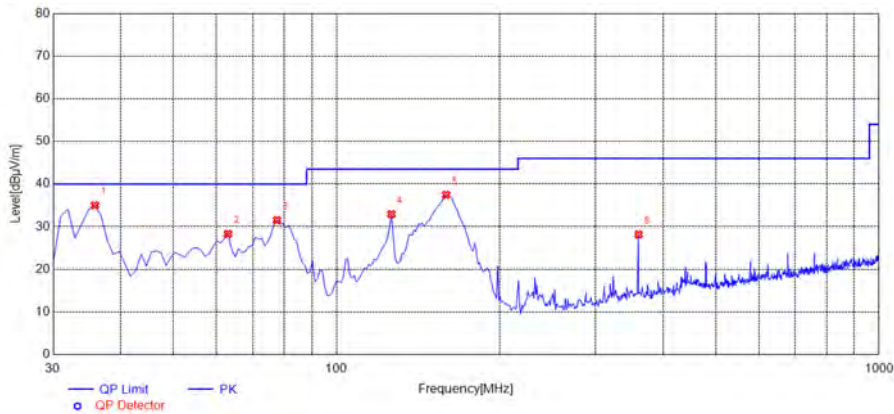
Plot for Channel 6



(Antenna Horizontal, 30MHz to 1GHz)

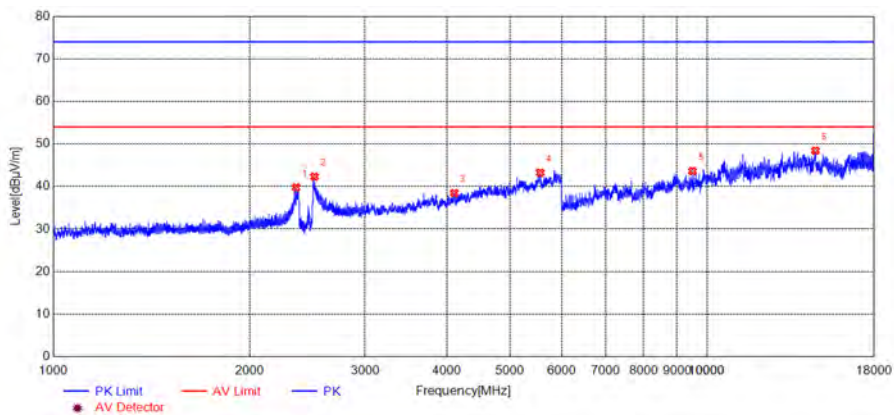


(Antenna Horizontal, 1GHz to 18GHz)



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
35.8258	35.01	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
63.0130	28.29	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
77.5776	31.51	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
126.1261	32.93	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
159.1391	37.47	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
360.1301	28.18	N/A	N/A	N/A	46.00	N/A	Vertical	PASS

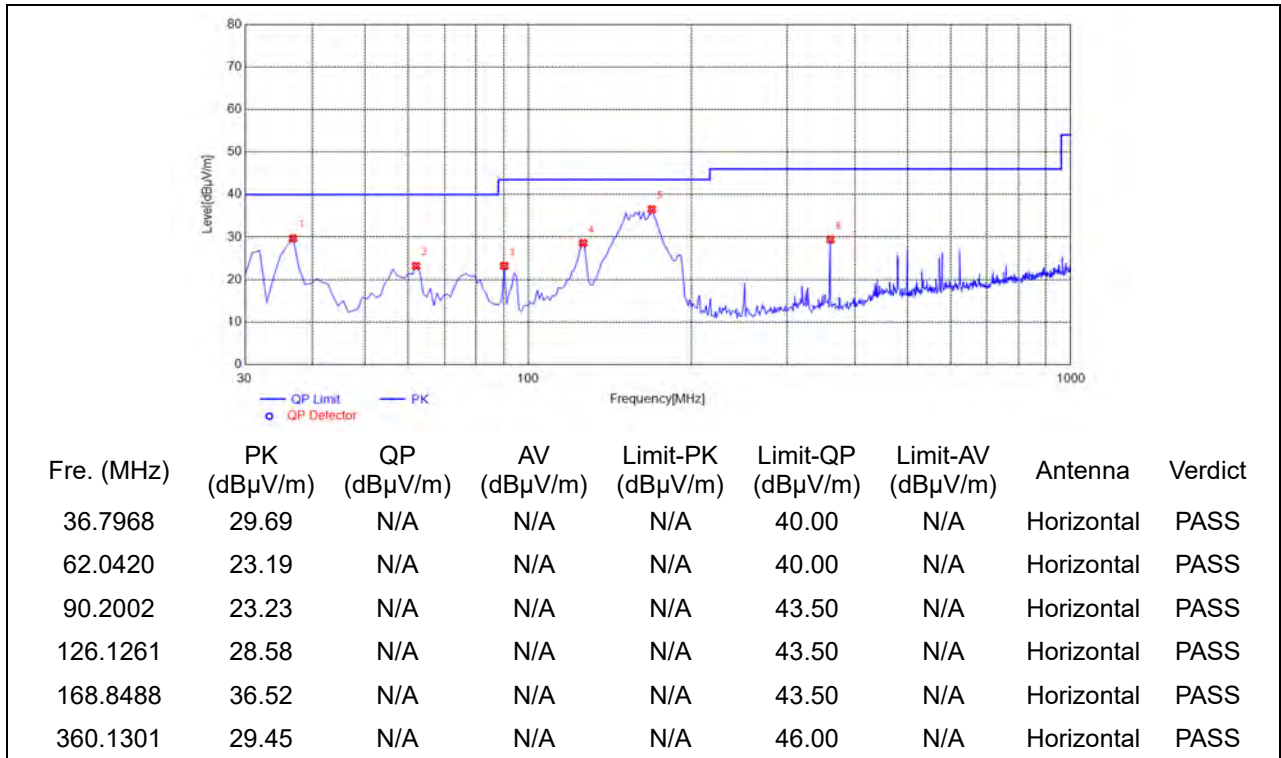
(Antenna Vertical, 30MHz to 1GHz)



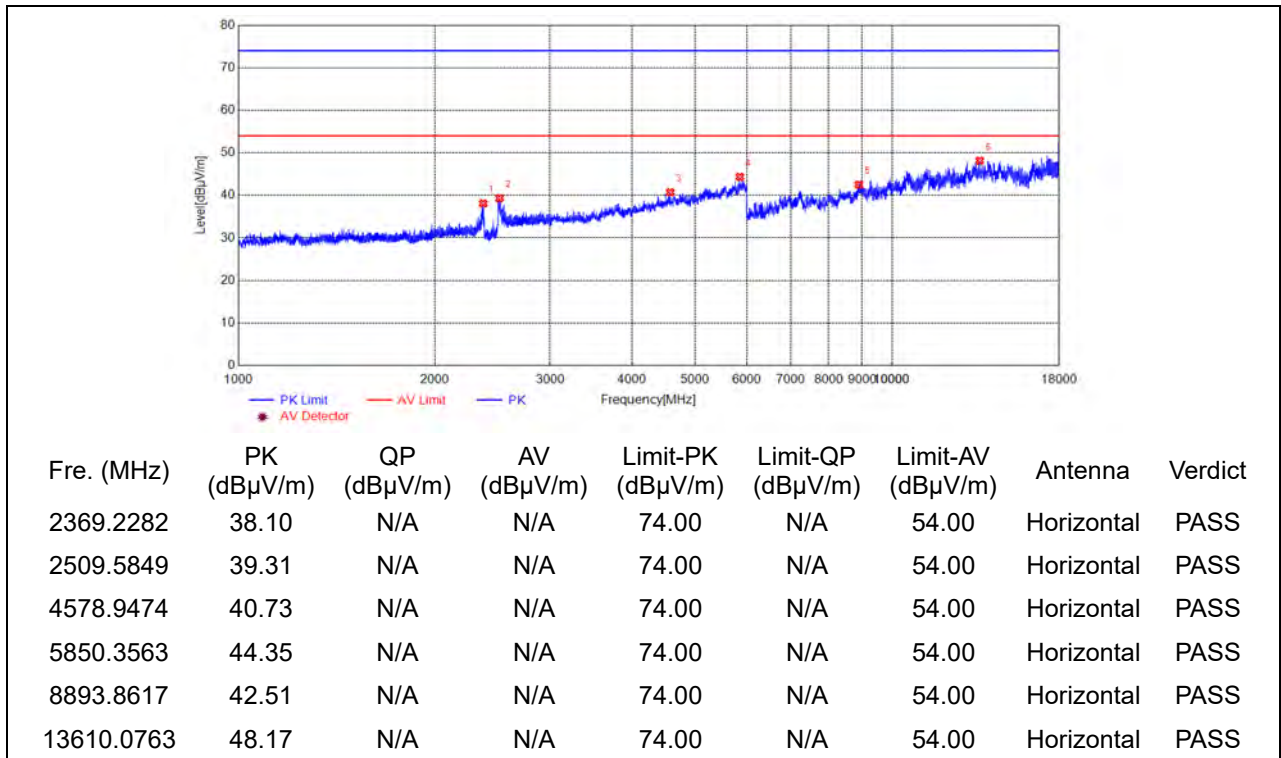
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
2352.5588	39.78	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2508.9182	42.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4108.2635	38.47	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5555.9445	43.26	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9497.6872	43.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14643.3304	48.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

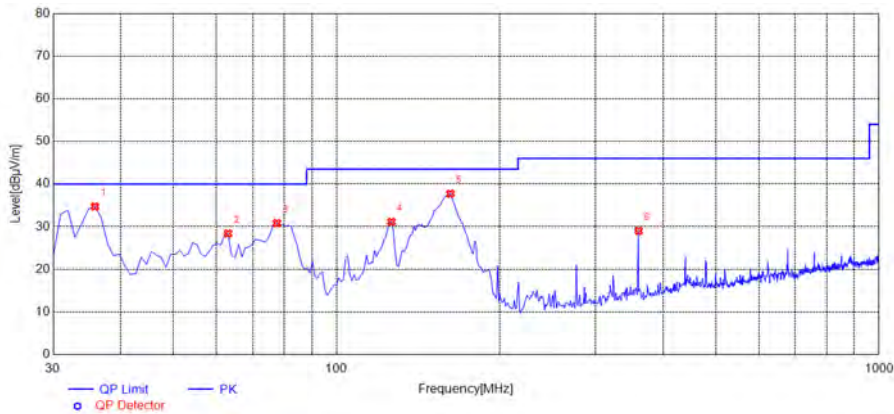
Plot for Channel 11



(Antenna Horizontal, 30MHz to 1GHz)

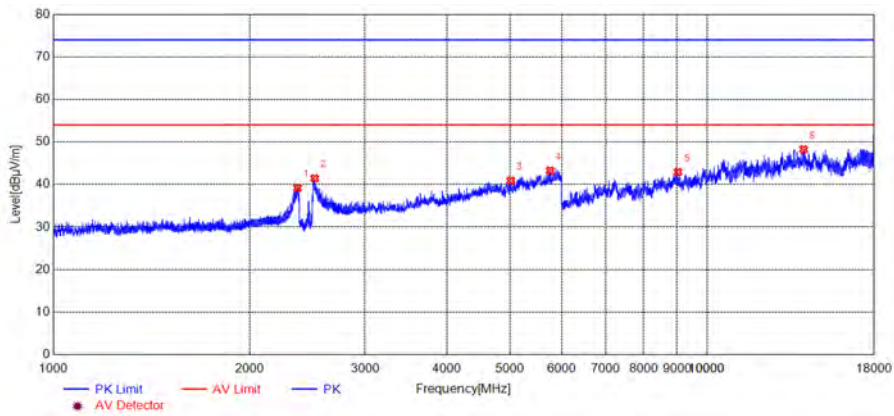


(Antenna Horizontal, 1GHz to 18GHz)



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
35.8258	34.71	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
63.0130	28.41	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
77.5776	30.84	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
126.1261	31.13	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
162.0521	37.73	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
360.1301	29.01	N/A	N/A	N/A	46.00	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)



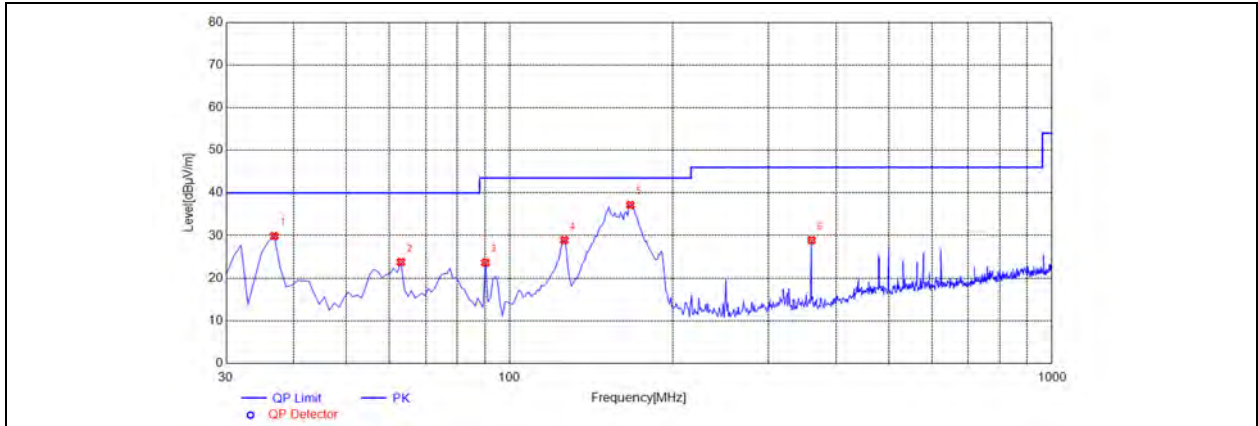
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
2364.5608	39.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2511.9187	41.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5008.3760	40.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5754.7193	43.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9028.8786	42.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14050.7563	48.29	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)



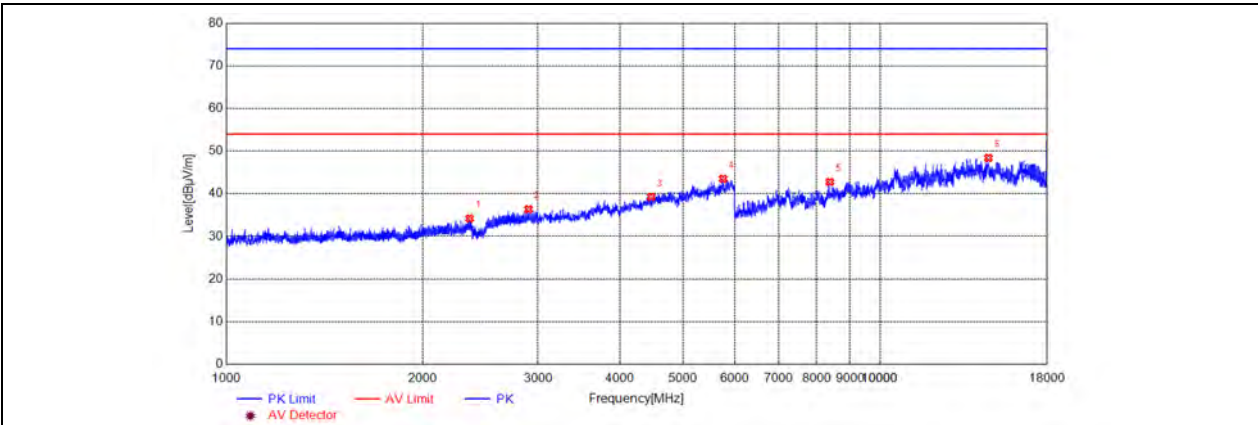
802.11n (HT40) Mode

Plot for Channel 3



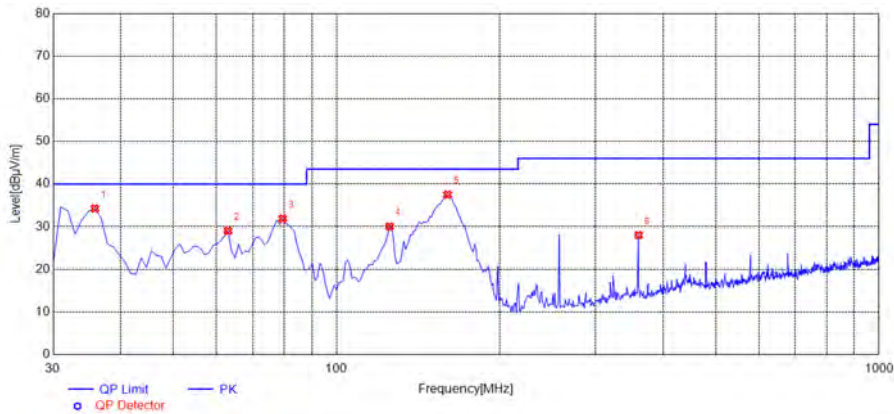
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
36.7968	29.88	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
63.0130	23.77	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
90.2002	23.66	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
126.1261	28.92	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
166.9069	37.18	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
360.1301	28.91	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



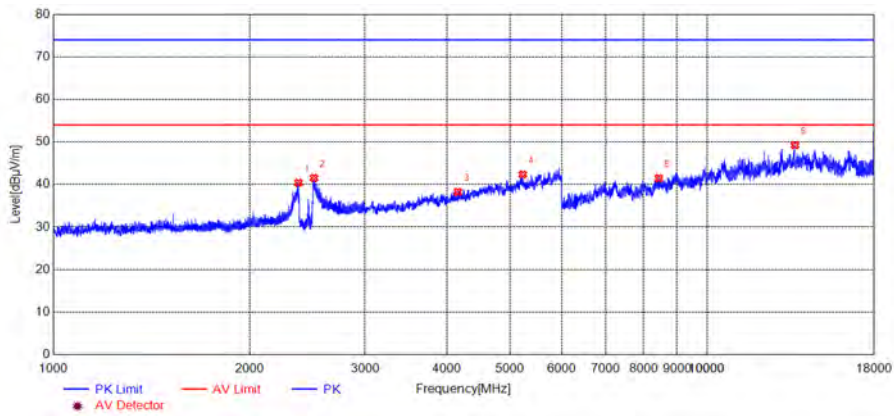
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
2356.8928	34.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2899.6499	36.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4466.4333	39.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5752.8441	43.50	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8380.0475	42.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14643.3304	48.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 1GHz 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
35.8258	34.26	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
63.0130	29.02	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
79.5195	31.89	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
125.1552	30.04	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
160.1101	37.52	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
360.1301	28.02	N/A	N/A	N/A	46.00	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)

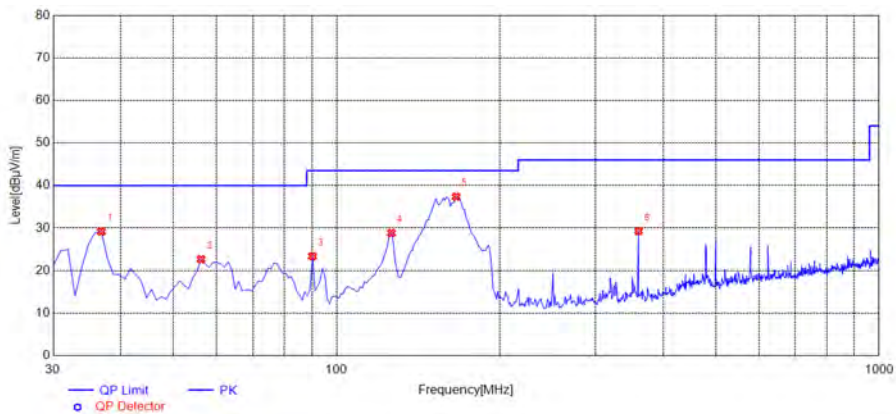


Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
2372.2287	40.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2505.5843	41.54	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4157.0196	38.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5224.0280	42.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8436.3045	41.49	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13623.2029	49.26	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

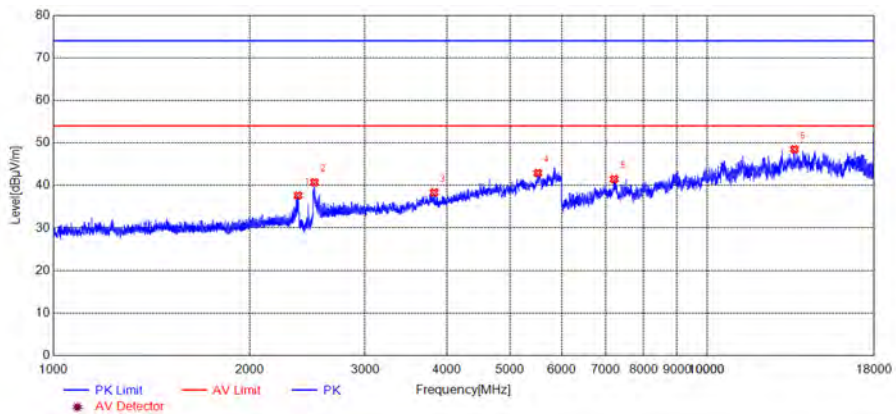


Plot for Channel 6



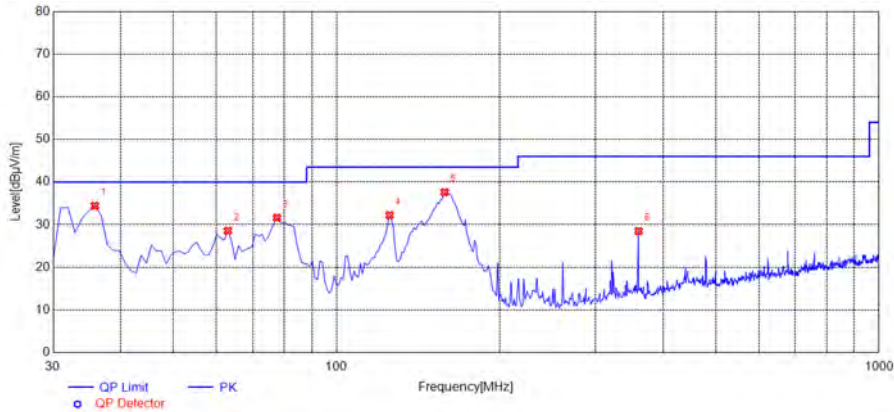
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
36.7968	29.17	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
56.2162	22.68	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
90.2002	23.37	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
126.1261	28.84	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
165.9359	37.39	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
360.1301	29.30	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



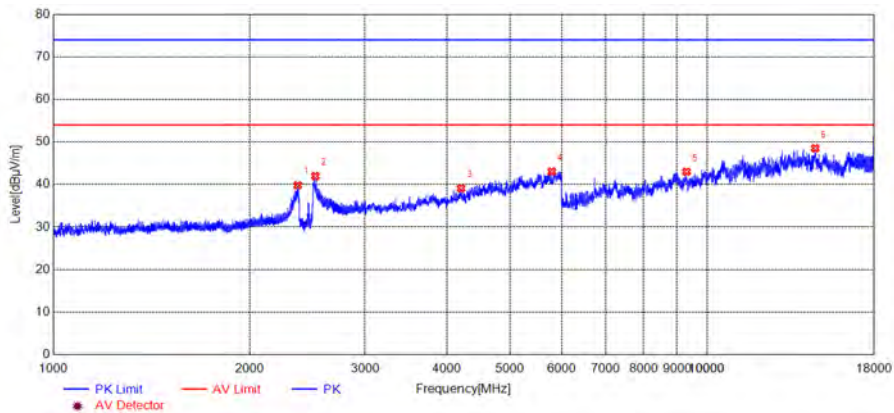
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
2369.5616	37.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2508.5848	40.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3825.1031	38.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5510.9389	42.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7209.9012	41.49	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13598.8249	48.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 1GHz 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
35.8258	34.42	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
63.0130	28.56	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
77.5776	31.62	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
125.1552	32.22	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
158.1682	37.60	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
360.1301	28.49	N/A	N/A	N/A	46.00	N/A	Vertical	PASS

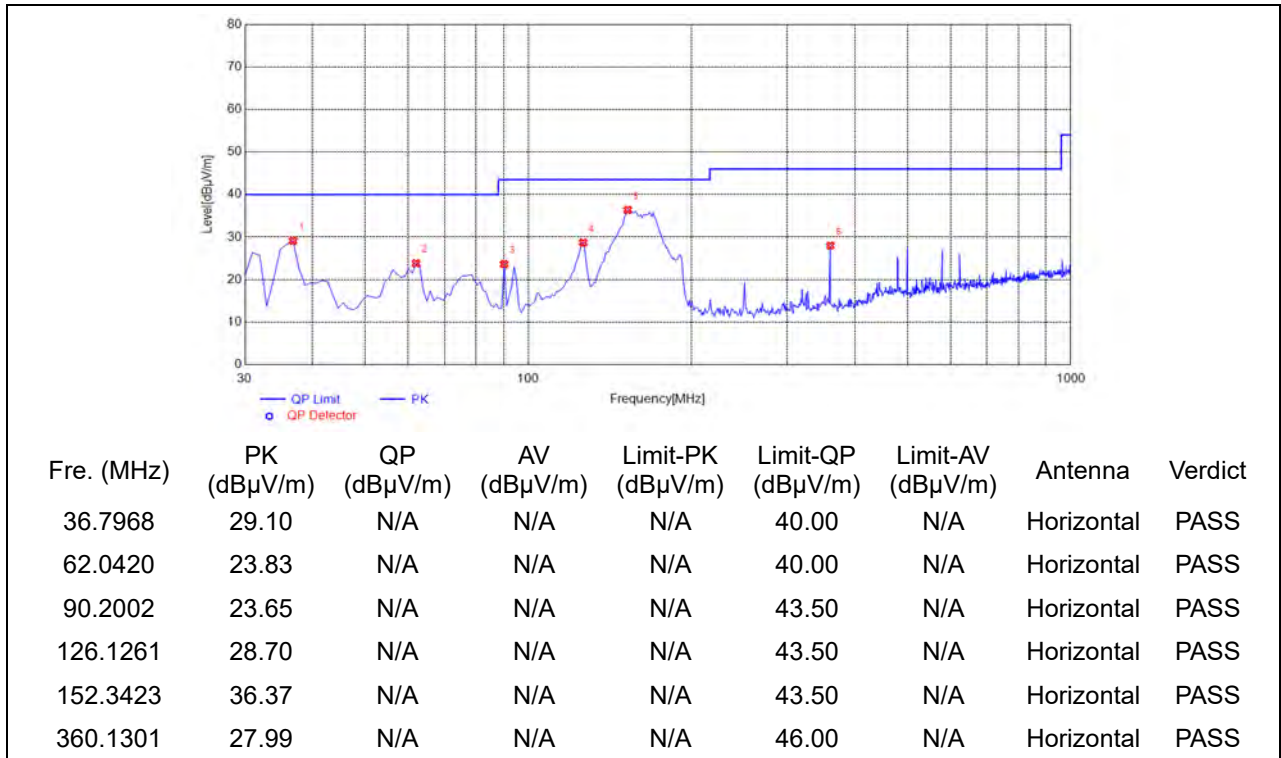
(Antenna Vertical, 30MHz to 1GHz)



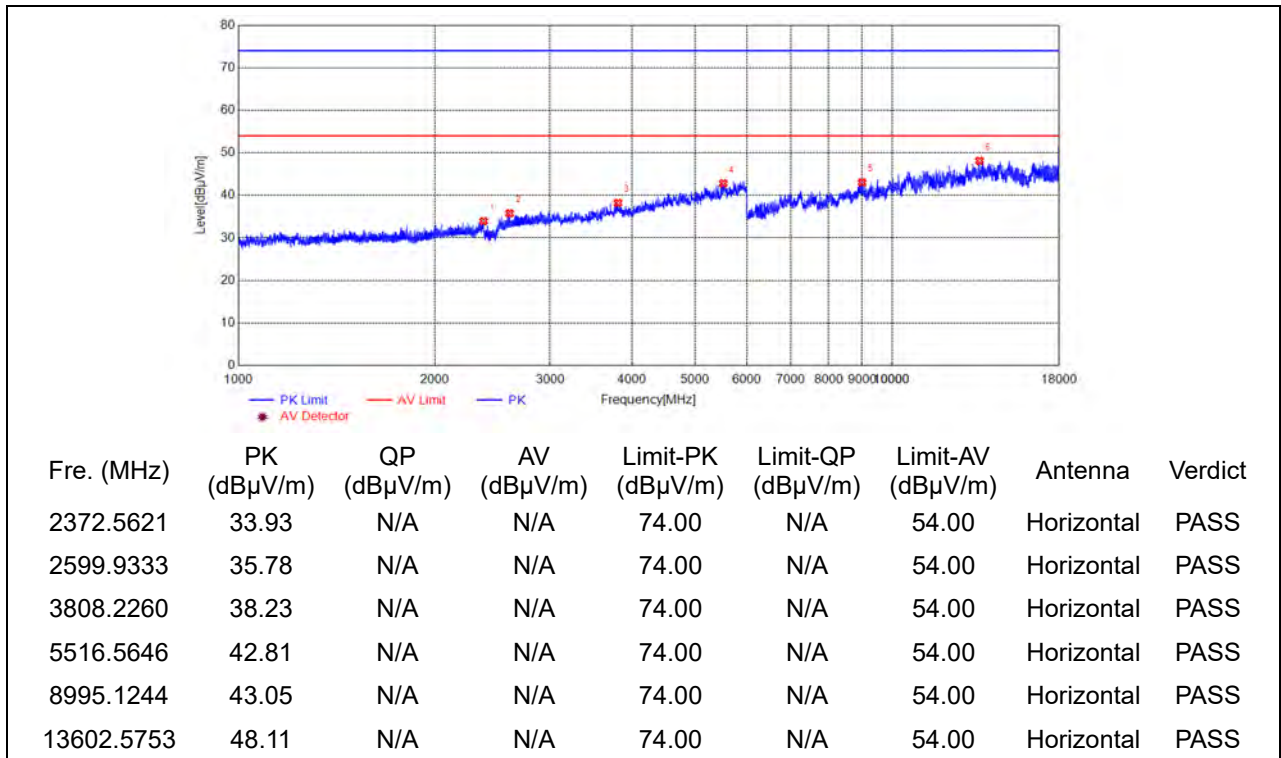
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
2365.8943	39.82	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2517.2529	41.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4205.7757	39.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5790.3488	43.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9302.6628	42.99	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14632.0790	48.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

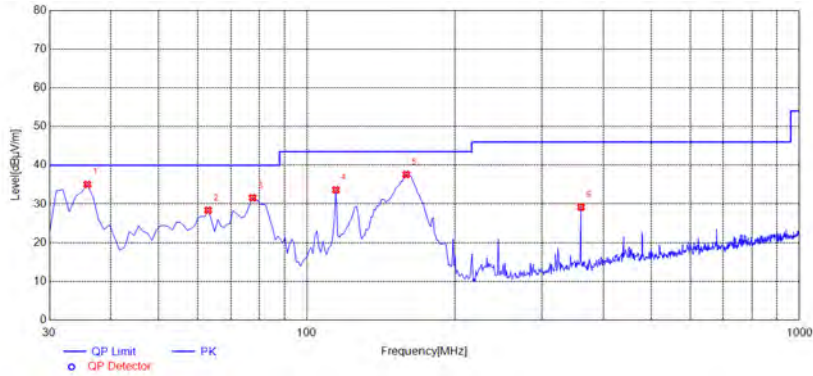
Plot for Channel 9



(Antenna Horizontal, 30MHz to 1GHz)

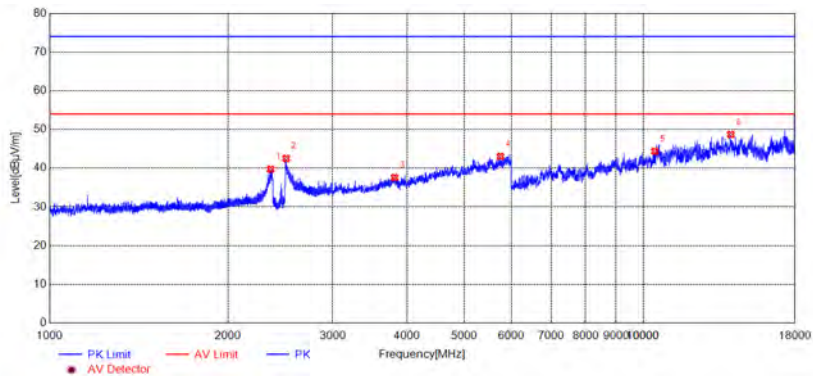


(Antenna Horizontal, 1GHz to 18GHz)



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
35.8258	35.04	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
63.0130	28.36	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
77.5776	31.59	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
114.4745	33.61	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
159.1391	37.61	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
360.1301	29.16	N/A	N/A	N/A	46.00	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)



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
2357.5596	39.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2503.9173	42.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3811.9765	37.58	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5749.0936	43.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10459.6825	44.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14039.5049	48.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

END OF REPORT