REPORT No.: SZ24070121W01

TEST REPORT

APPLICANT	:	Anker Innovations Limited
PRODUCT NAME	:	eufyCam S3 Pro
MODEL NAME	:	T8162
BRAND NAME	:	eufy
FCC ID	:	2AOKB-T8162
STANDARD(S)	:	47 CFR Part 15 Subpart C
RECEIPT DATE	:	2024-07-10
TEST DATE	:	2024-07-31 to 2024-08-22
ISSUE DATE	:	2024-09-11

Edited by: Peng Mi

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Approved by: Shen Junsheng

Shen Junsheng (Supervisor)

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MORLAB

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DIRECTORY

Change History		
Version	**Date**	**Reason for change**
1.0	2024-09-11	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	Jul. 31, 2024	Li Xinpeng	PASS	No deviation
3	15.247(b)	Maximum Peak Conducted Output Power	Jul. 31, 2024	Li Xinpeng	PASS	No deviation
4	15.247(b)	Maximum Average Conducted Output Power	Jul. 31, 2024	Li Xinpeng	PASS	No deviation
5	15.247(a)	Bandwidth	Jul. 31, 2024	Li Xinpeng	PASS	No deviation
6	15.247(d)	Conducted Spurious Emission and Band Edge	Jul. 31, 2024	Li Xinpeng	PASS	No deviation
7	15.247(e)	Power Spectral Density	Jul. 31, 2024	Li Xinpeng	PASS	No deviation
8	15.207	Conducted Emission	Jul. 22 to 24, 2024	Wang Deyong Fan Shengquan	PASS	No deviation
9	15.247(d)	Restricted Frequency Bands	Aug. 22, 2024	Yang Lian	PASS	No deviation
10	15.209, 15.247(d)	Radiated Emission	Aug. 16, 2024	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 Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2024.02.19	2025.02.18
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	2023.10.17	2024.10.16
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 Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2024.01.25	2025.01.24
LISN	8127449	NSLK 8127	Schwarzbeck	2024.02.02	2025.02.01
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2024.05.30	2025.05.29
RF Coaxial Cable (DC-100MHz)	BNC	MRE04	Qualwave	2024.07.02	2025.07.01

1.2.3 List of Software Used

Description	Manufacturer	Software Version
Test System	MaiWei	2.0.0.0
TS+ -[JS36-RSE]	Tonscend	V3.0.0.0
TS+ -[JS32-CE]	Tonscend	V2.5.0.0

1.2.4 Radiated Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2024.05.30	2025.05.29
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2024.06.03	2025.06.02
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2024.06.22	2025.06.21
Preamplifier (10MHz-6GHz)	46732	S10M100L3802	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (2GHz-18GHz)	61171/61172	S020180L3203	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2024.07.03	2025.07.02
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	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	Anker Innovations Limited
Applicant Address	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong
Manufacturer	Anker Innovations Limited
Manufacturer Address	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong

2.2. Information of EUT

Product Name:	eufyCam S3 Pro	
Sample No.:	2#	
Hardware Version:	V3	
Software Version:	V3.0.3.5	
Modulation Technology:	DSSS, OFDM	
Modulation Type:	Refer to section 1.3	
Operating Frequency Range:	802.11b/g/n (HT20): 2412MHz–2462MHz	
Antenna Type:	FPC Antenna	
Antenna Gain:	ANT1: 4.64dBi; ANT2: 3.02dBi	
Accessory Information:	Battery	
	Brand Name:	N/A
	Model No.:	C0914G3
	Serial No.:	N/A
	Capacity:	12300mAh
	Rated Voltage:	3.67V
	Charge Limit:	4.2V
	Manufacturer:	Guangdong Pow-Tech New Power Co.,Ltd.

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

Nominal Channel Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	**1**	**2412**	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	**11**	**2462**
	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

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.

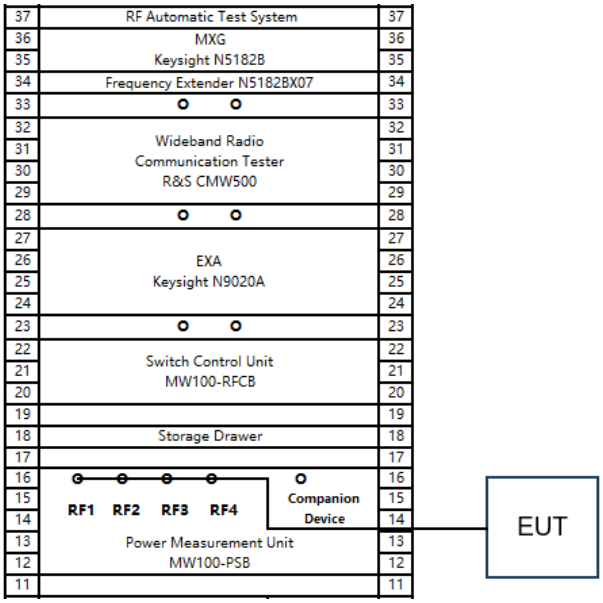
Note2: The RF signal transmission of EUT is controlled by the build-in engineering mode which is provided by the manufacturer. The recorded power setting value is the maximum that the engineering mode has configuration during testing.

2.5. Test Conditions

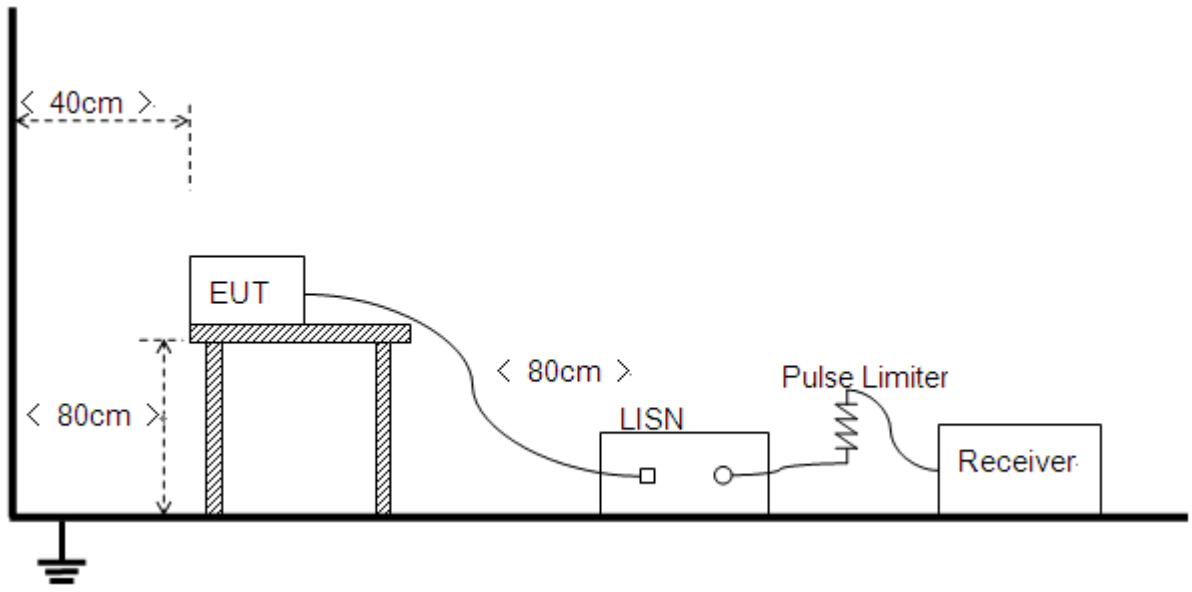
Temperature (°C)	15-35
Relative Humidity (%)	30-60
Atmospheric Pressure (kPa)	86-106

2.6. Test Setup Layout Diagram

2.6.1.Conducted Measurement

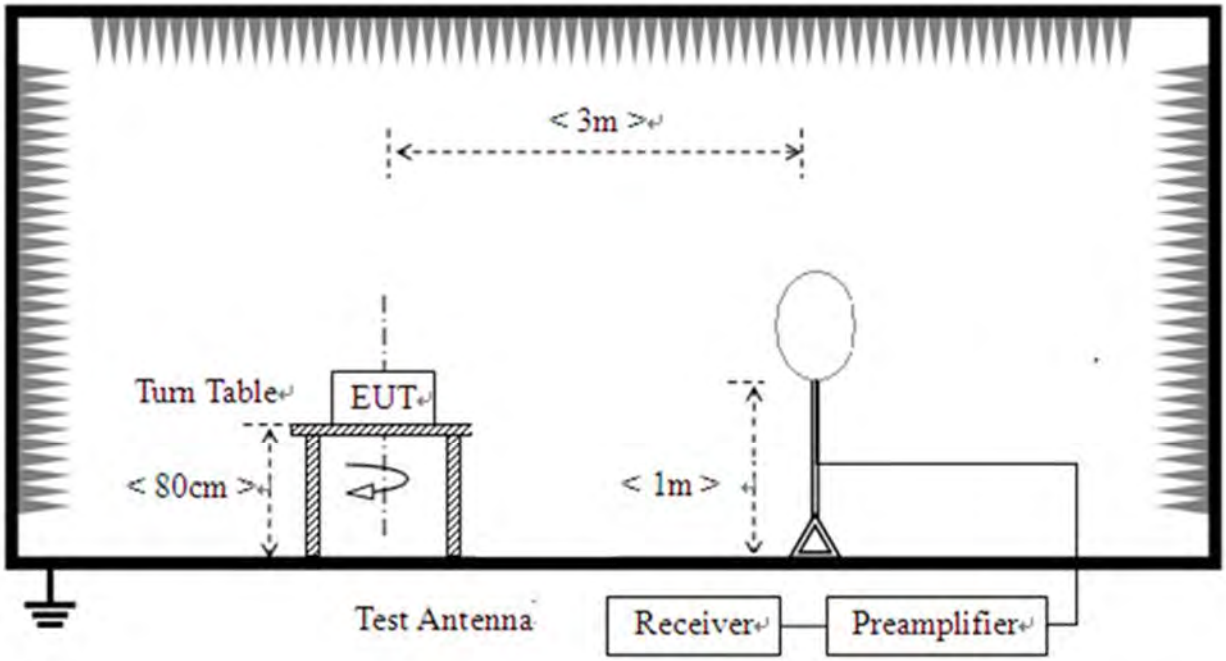


2.6.2.Conducted Emission Measurement

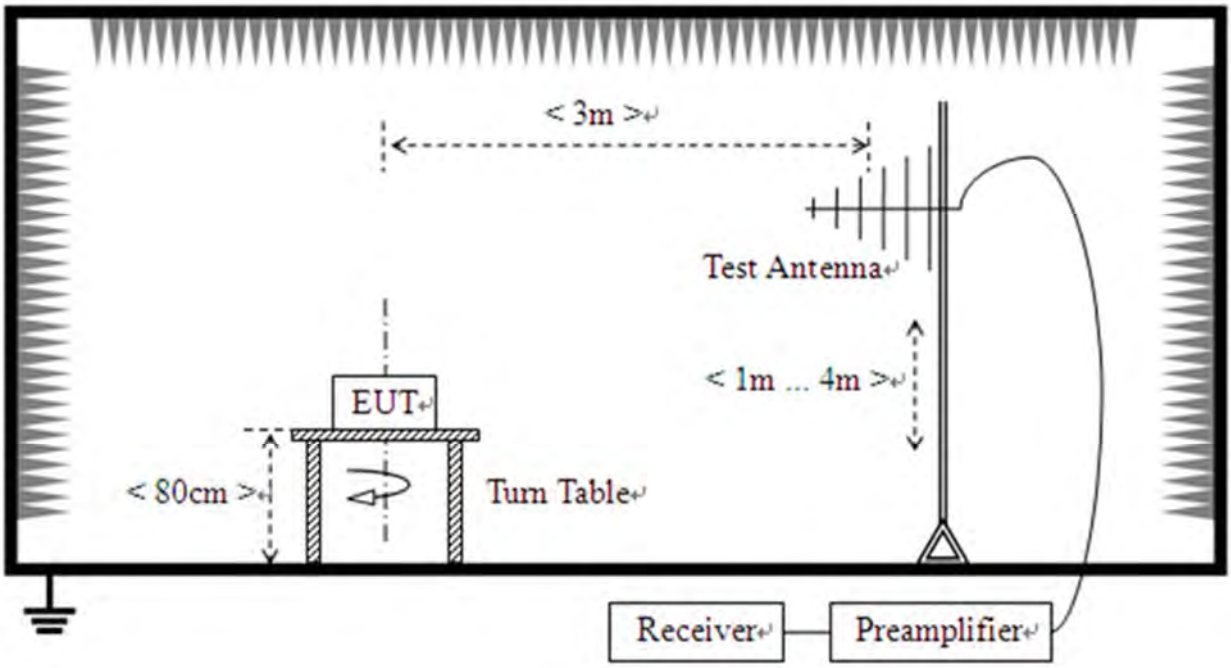


2.6.3.Radiation Measurement

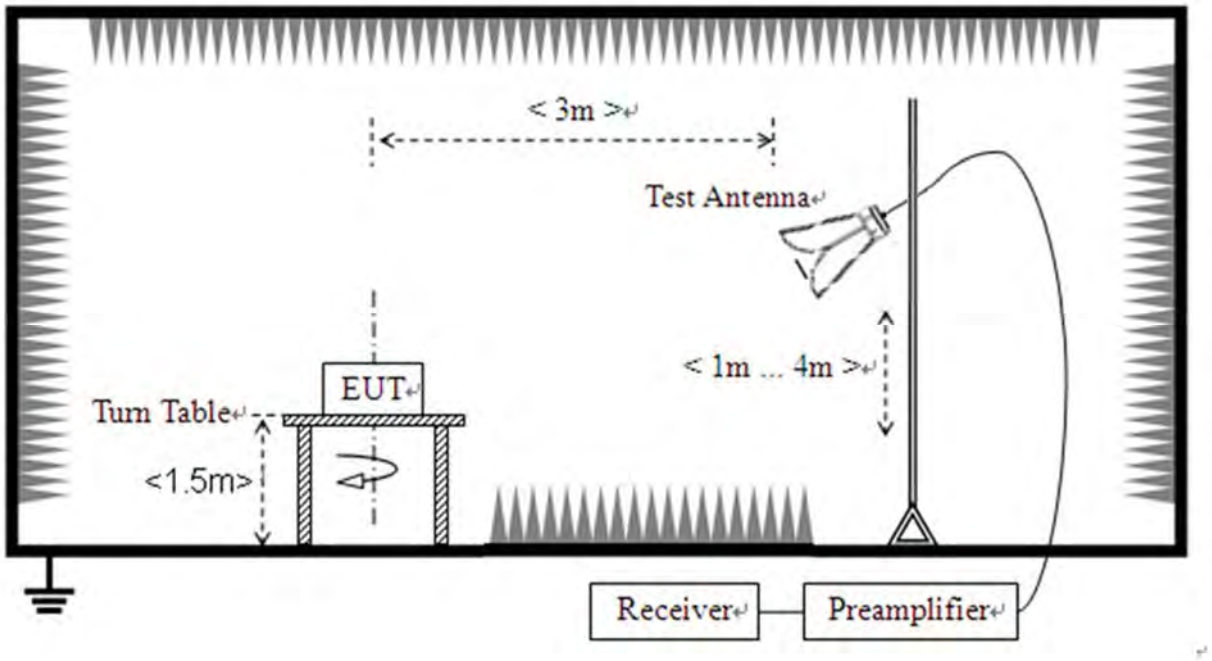
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz



3. Test Results

3.1. Antenna Requirement

3.1.1.Requirement

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.1.2.Test Result

Antenna location	Antenna Type	Coupling Method
☒Internal ☐External	☒FPC Antenna ☐Spring Antenna ☐Ceramic Antenna ☐Integrated Antenna ☐Dipole Antenna ☐PCB Antenna ☐PIFA Antenna	☒I-PEX Connector ☐SMA Connector ☐RP-SMA Connector ☐Metal Shrapnel ☐Layout

3.2. Duty Cycle of Test Signal

3.2.1.Requirement

Preferably, all measurements of maximum conducted (average) output power will be performed with the EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%).When continuous operation cannot be realized, then the use of sweep triggering/signal gating techniques can be used to ensure that measurements are made only during transmissions at the maximum power control level. Such sweep triggering/signal gating techniques will require knowledge of the minimum transmission duration(T) over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Sweep triggering/signal gating techniques can then be used if the measurement/sweep time of the analyzer can be set such that it does not exceed T at any time that data are being acquired (i.e.,no transmitter OFF-time is to be considered).
When continuous transmission cannot be achieved and sweep triggering/signal gating cannot be implemented, alternative procedures are provided that can be used to measure the average power; however, they will require an additional measurement of the transmitter duty cycle (D). Within this sub clause, the duty cycle refers to the fraction of time over which the transmitter is ON and is transmitting at its maximum power control level. The duty cycle is considered to be constant if variations are less than ±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 to1.5 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 50μH/50Ω line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dBμV)	
	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 ≥ 1GHz, 100 kHz for f < 1GHz
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 (μV/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 3meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

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

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

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

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

3.9.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.9.4.Test Result

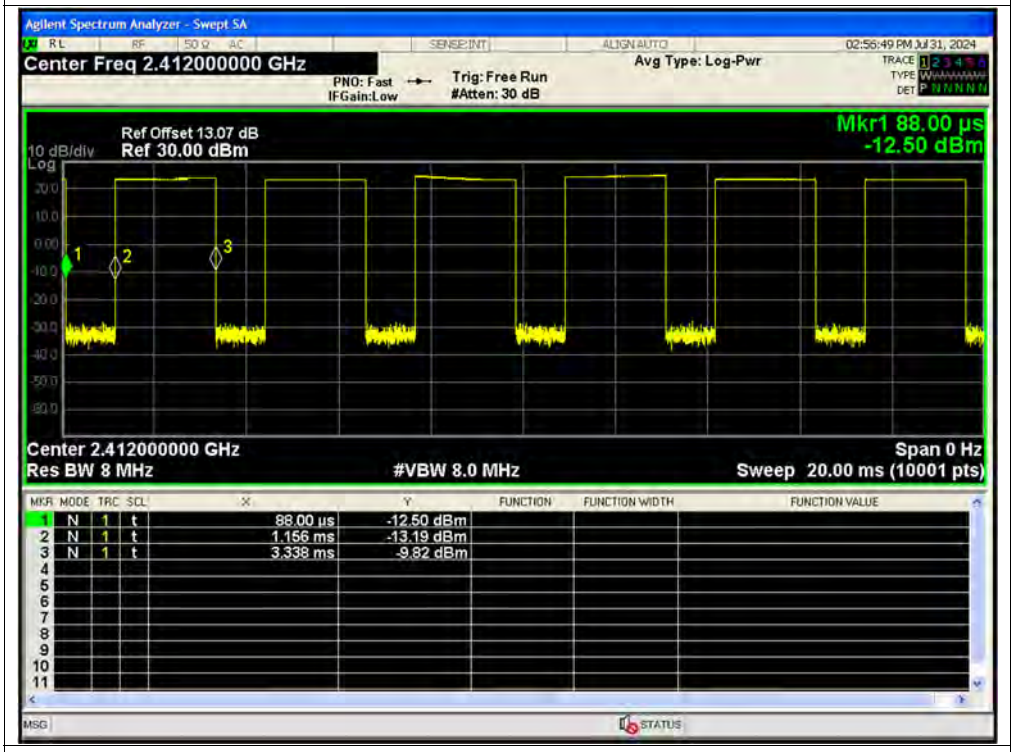
Refer to Annex A.10 in this report.

Annex A Test Data and Result

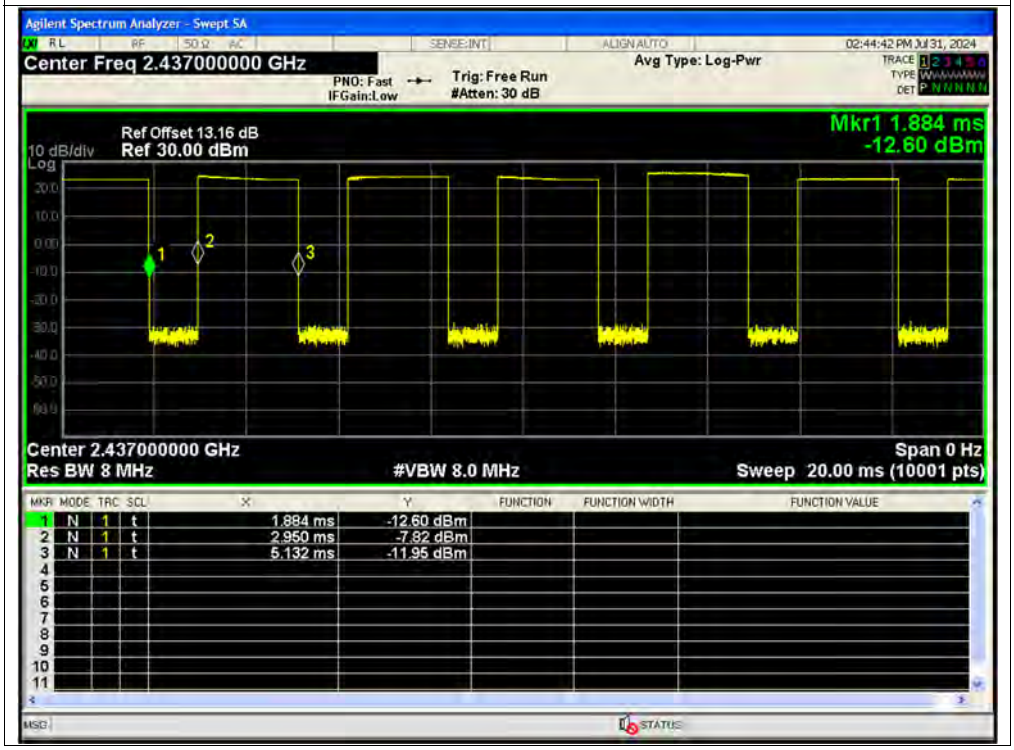
A.1. Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	67.14	1.73	0.46
NVNT	b	2437	Ant1	67.18	1.73	0.46
NVNT	b	2462	Ant1	67.12	1.73	0.46
NVNT	b	2412	Ant2	67.18	1.73	0.46
NVNT	b	2437	Ant2	67.18	1.73	0.46
NVNT	b	2462	Ant2	67.18	1.73	0.46
NVNT	g	2412	Ant1	99.97	0	0
NVNT	g	2437	Ant1	99.93	0	0.08
NVNT	g	2462	Ant1	99.89	0	0.14
NVNT	g	2412	Ant2	99.93	0	0.08
NVNT	g	2437	Ant2	99.95	0	0.08
NVNT	g	2462	Ant2	99.93	0	0.08
NVNT	n20	2412	Ant1	99.93	0	0.09
NVNT	n20	2437	Ant1	99.93	0	0.09
NVNT	n20	2462	Ant1	99.95	0	0.09
NVNT	n20	2412	Ant2	99.93	0	0.08
NVNT	n20	2437	Ant2	99.95	0	0.08
NVNT	n20	2462	Ant2	99.93	0	0.08

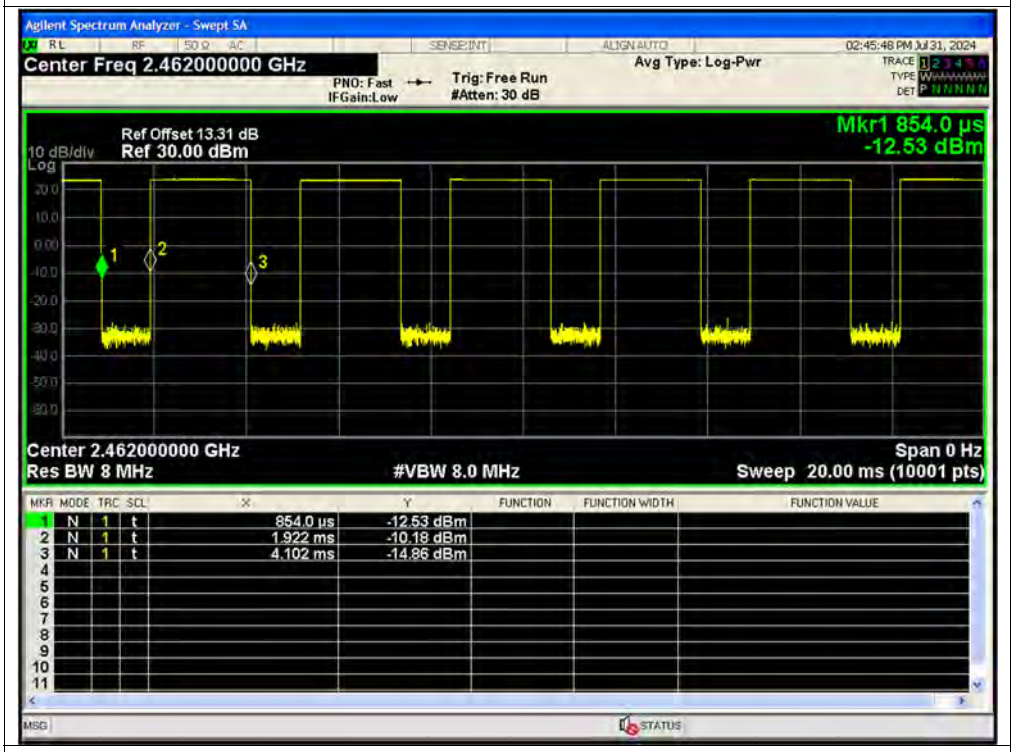
Test Graphs
Duty Cycle NVNT b 2412MHz Ant1



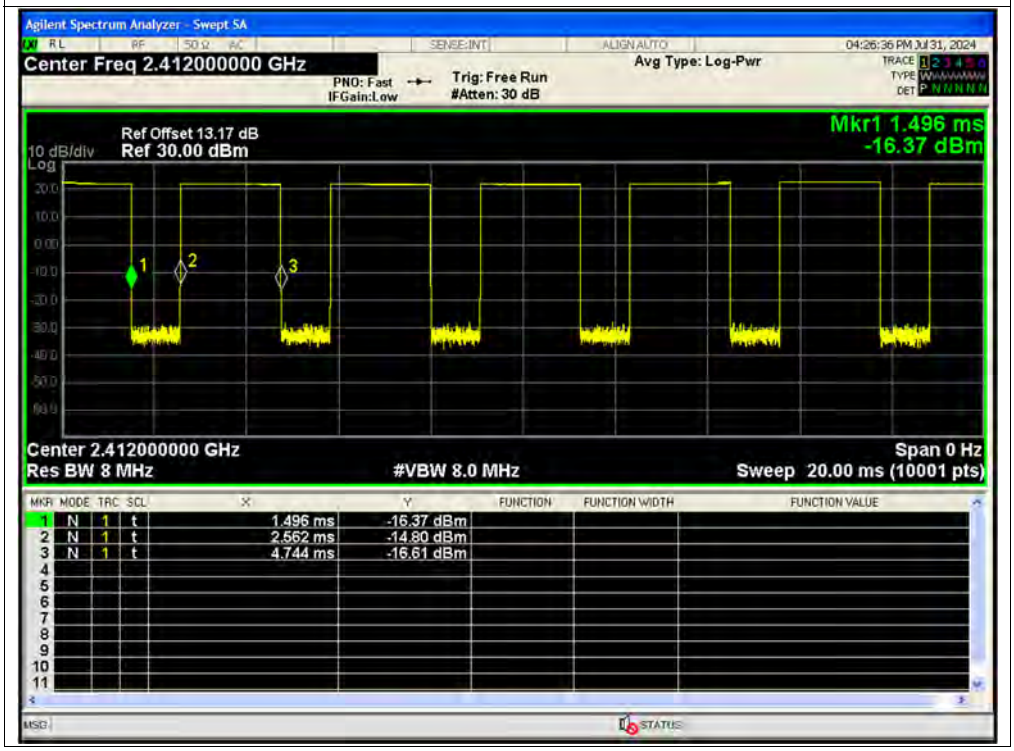
Duty Cycle NVNT b 2437MHz Ant1



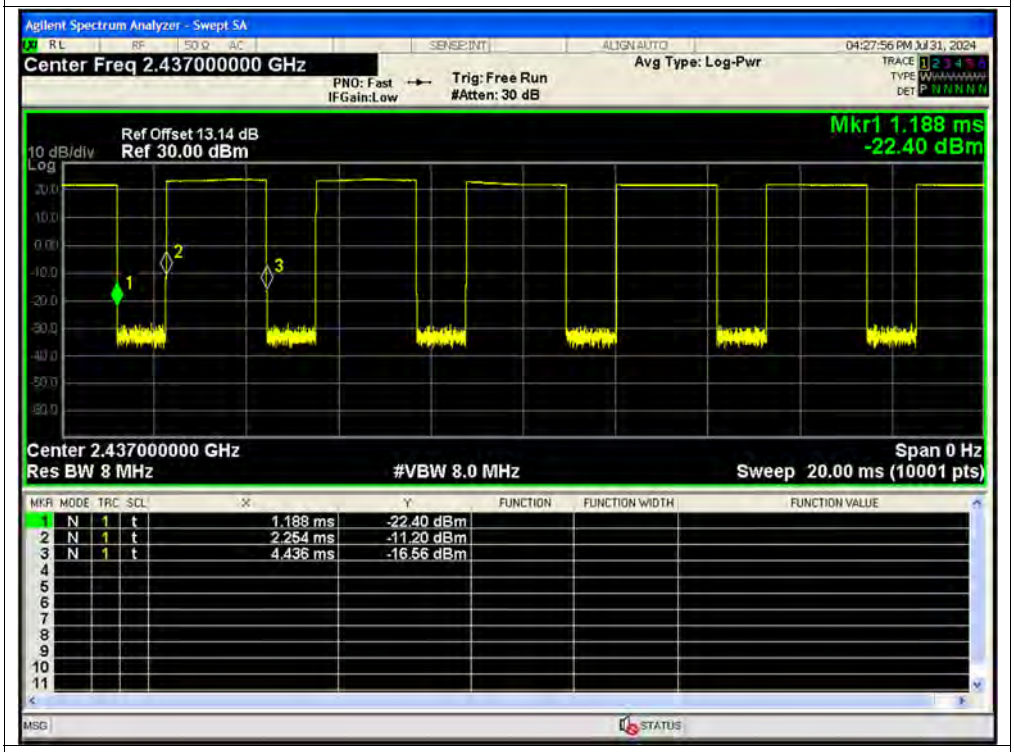
Duty Cycle NVNT b 2462MHz Ant1



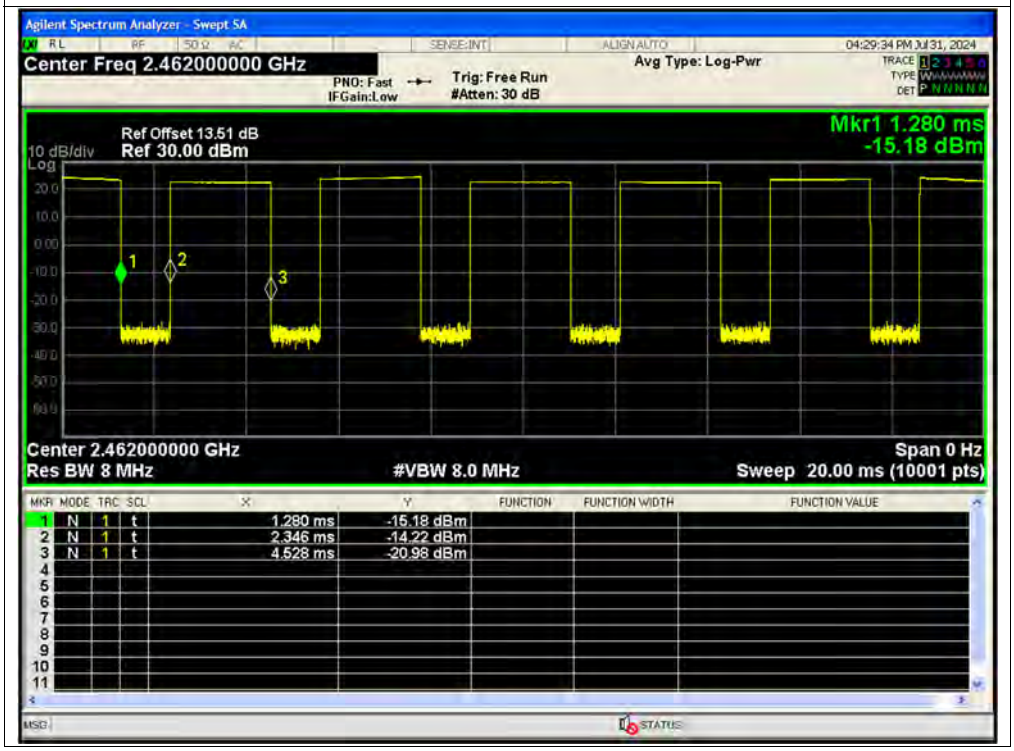
Duty Cycle NVNT b 2412MHz Ant2



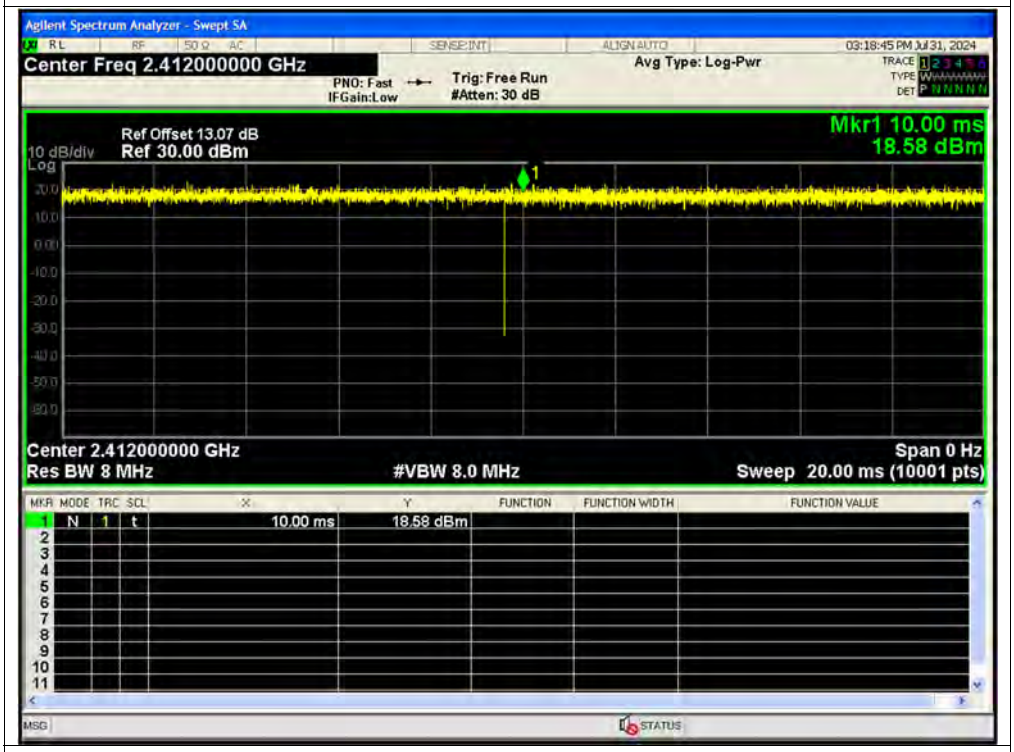
Duty Cycle NVNT b 2437MHz Ant2



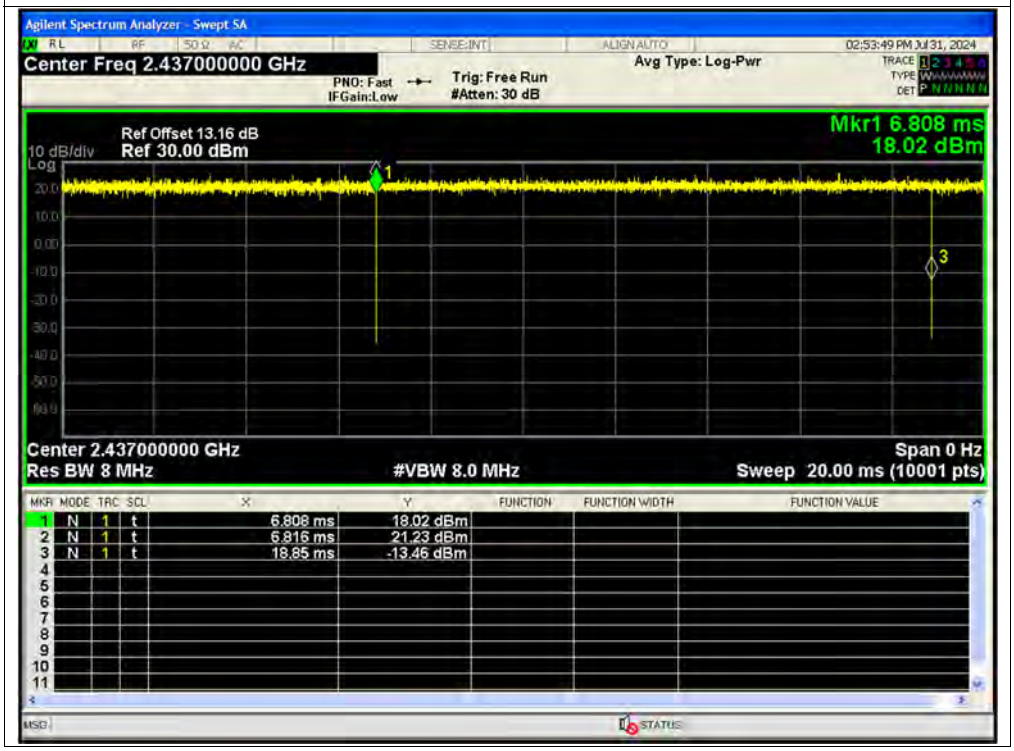
Duty Cycle NVNT b 2462MHz Ant2



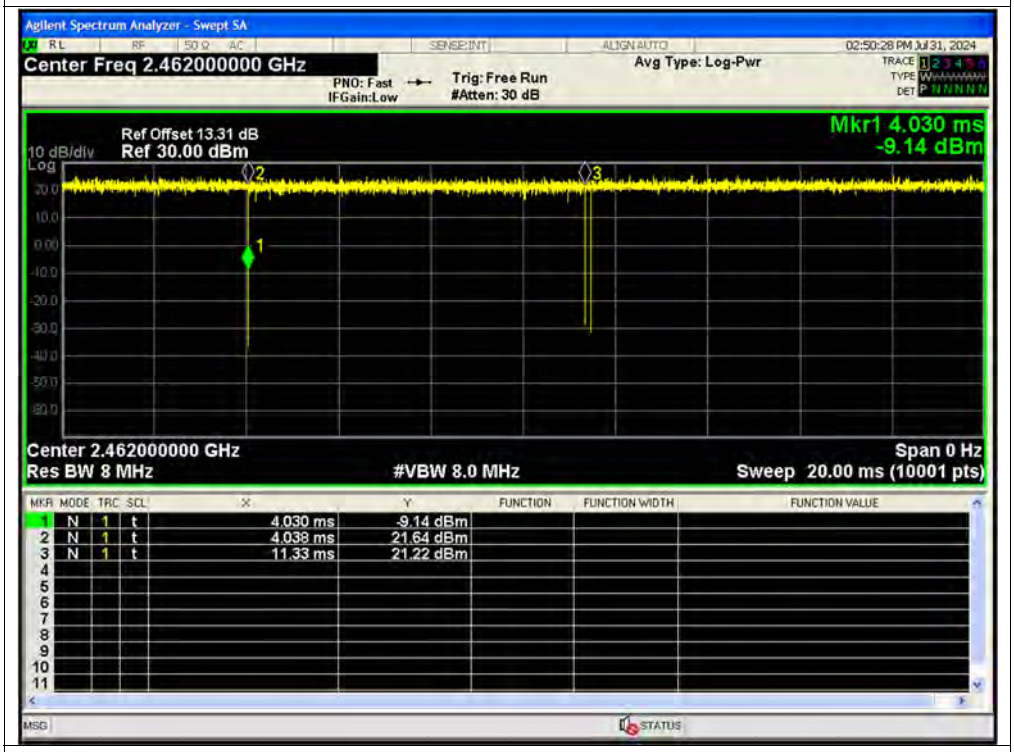
Duty Cycle NVNT g 2412MHz Ant1



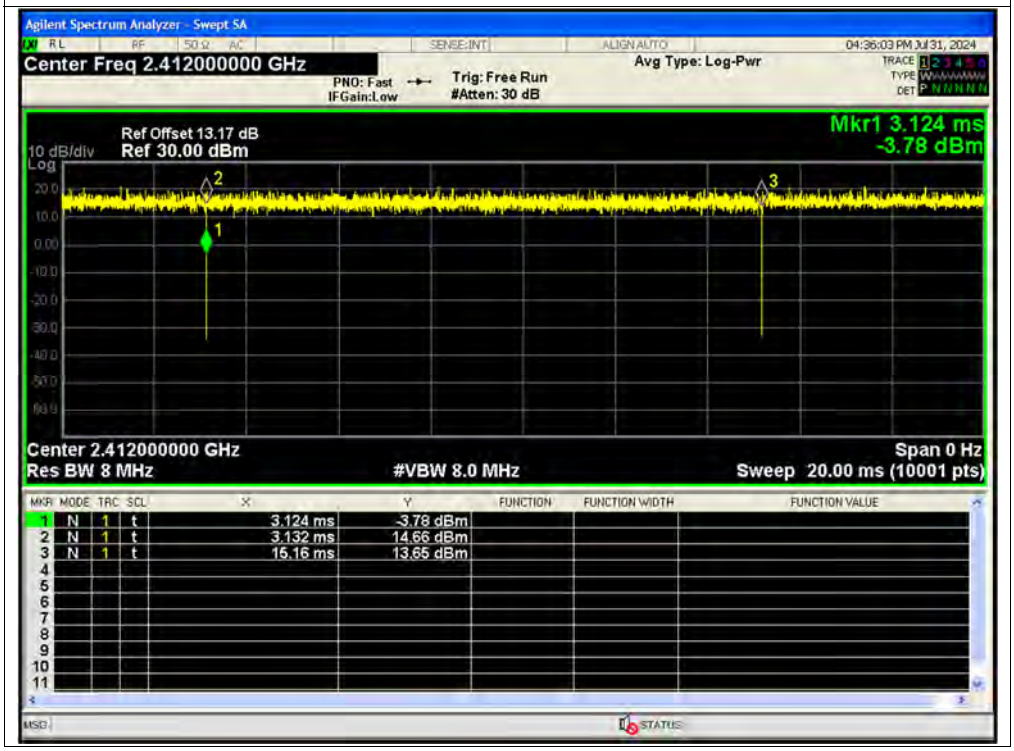
Duty Cycle NVNT g 2437MHz Ant1



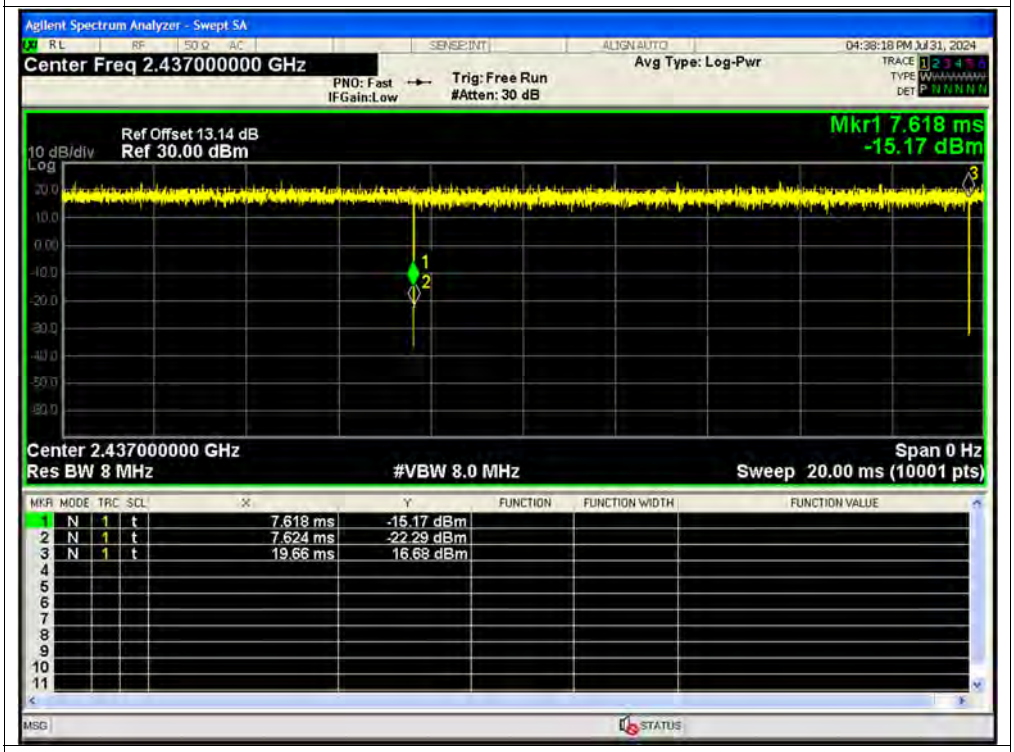
Duty Cycle NVNT g 2462MHz Ant1



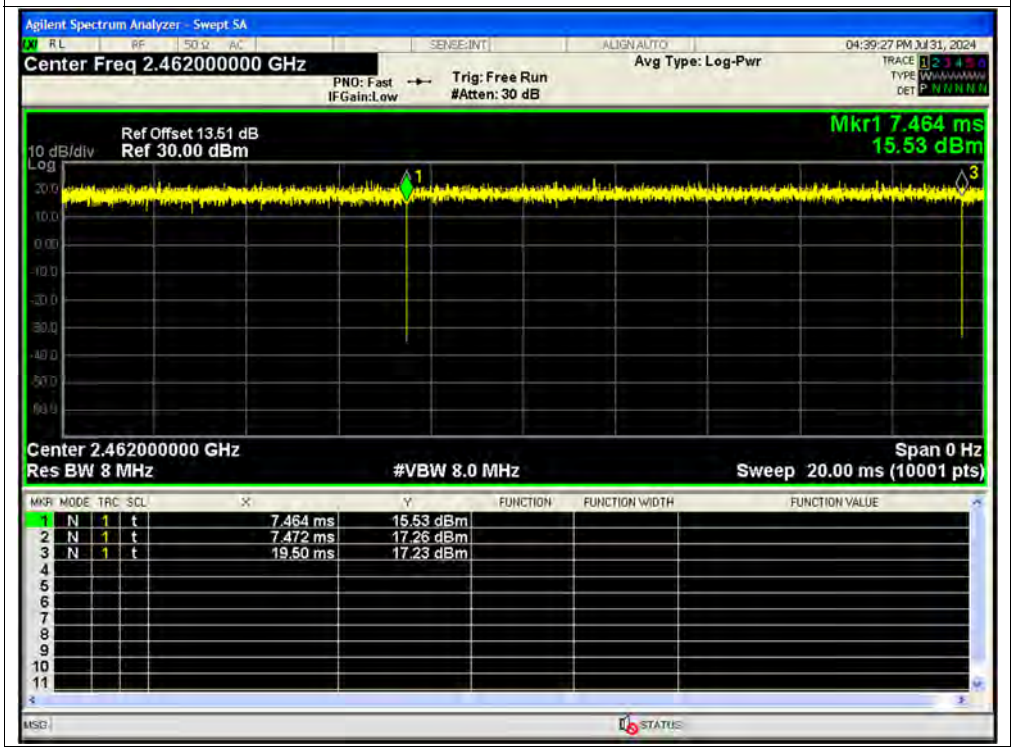
Duty Cycle NVNT g 2412MHz Ant2



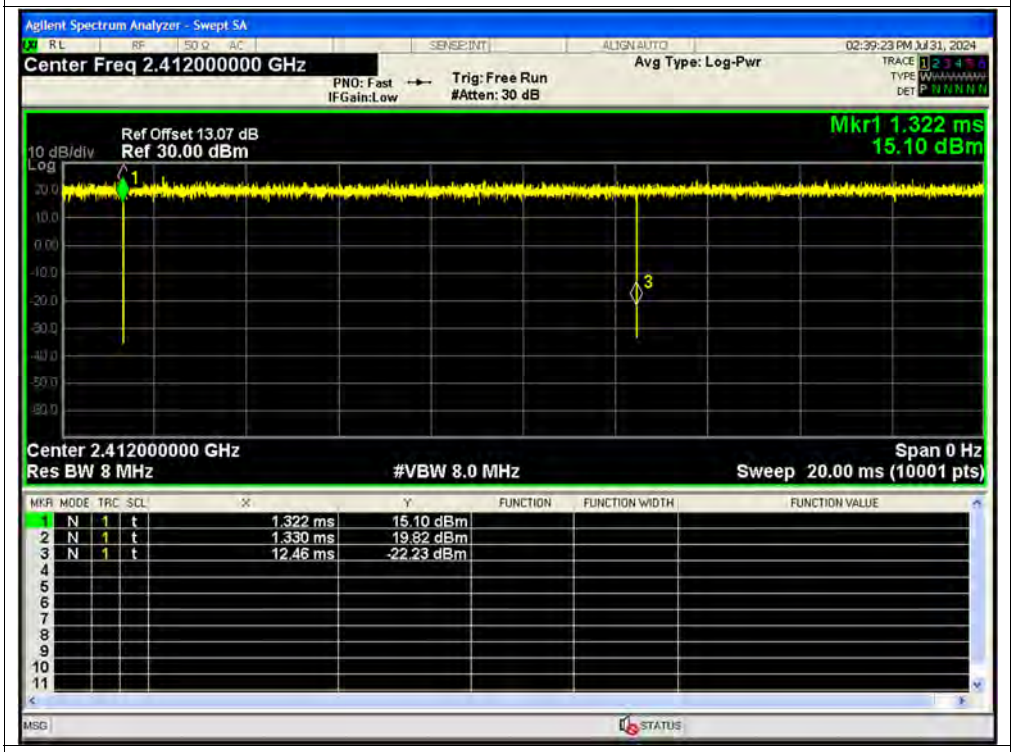
Duty Cycle NVNT g 2437MHz Ant2



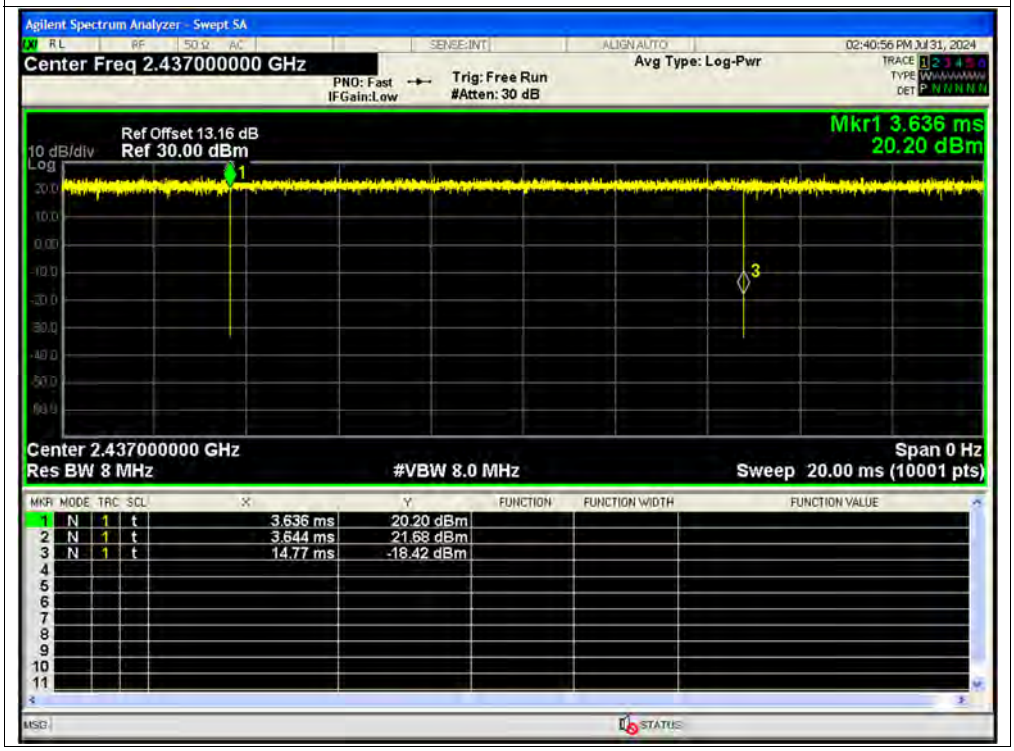
Duty Cycle NVNT g 2462MHz Ant2



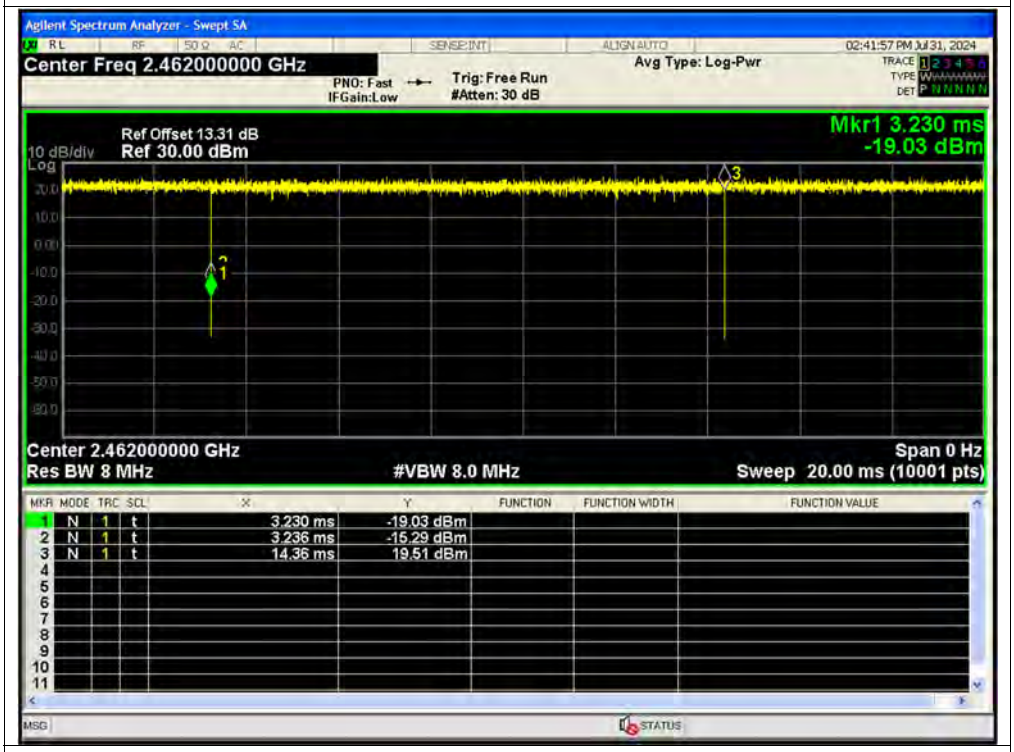
Duty Cycle NVNT n20 2412MHz Ant1



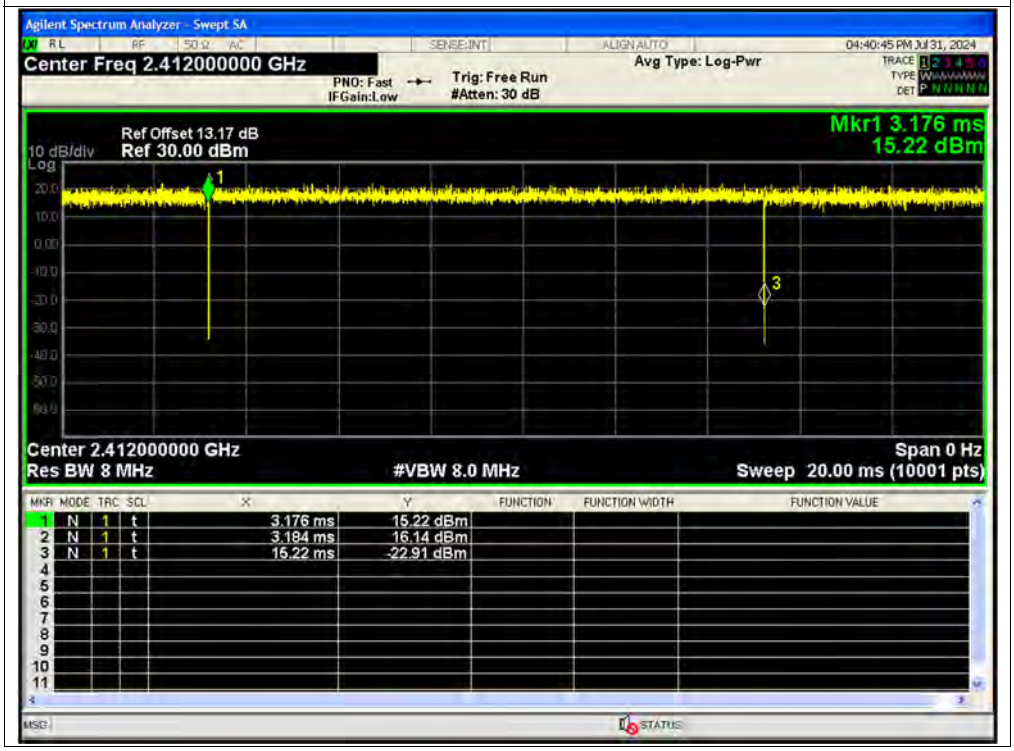
Duty Cycle NVNT n20 2437MHz Ant1



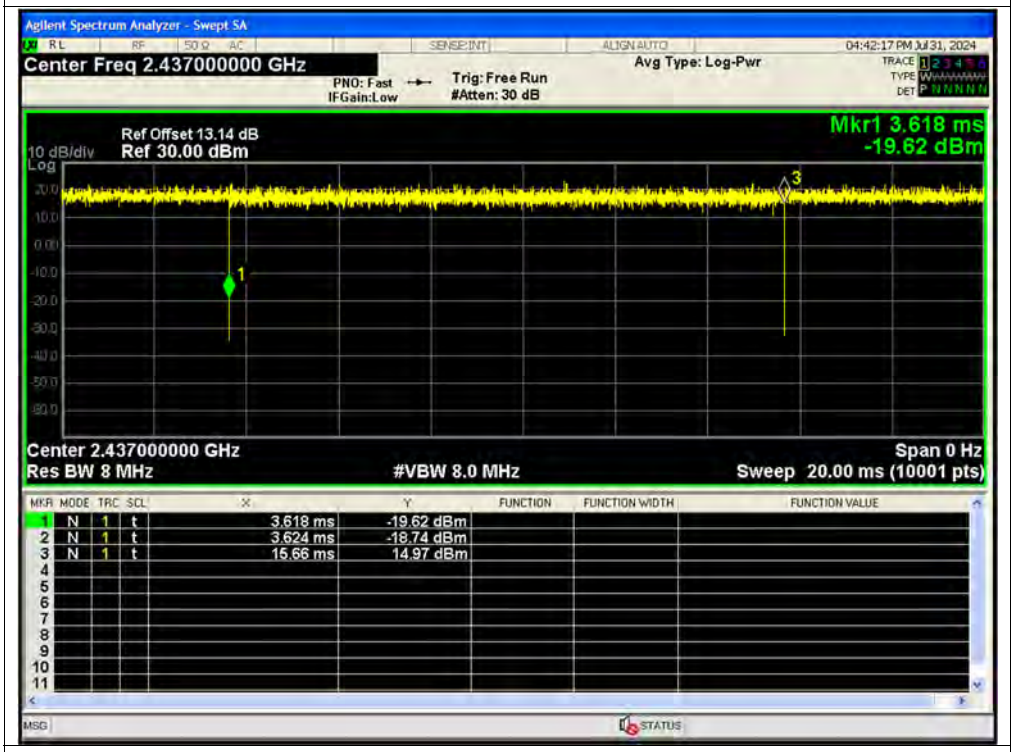
Duty Cycle NVNT n20 2462MHz Ant1



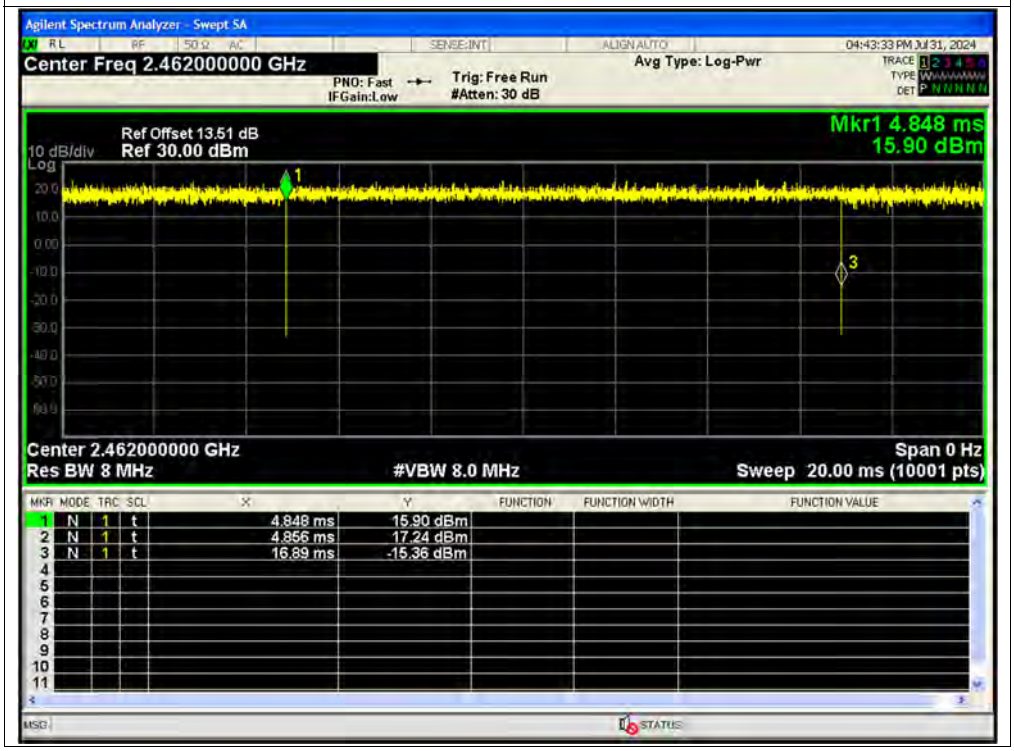
Duty Cycle NVNT n20 2412MHz Ant2



Duty Cycle NVNT n20 2437MHz Ant2



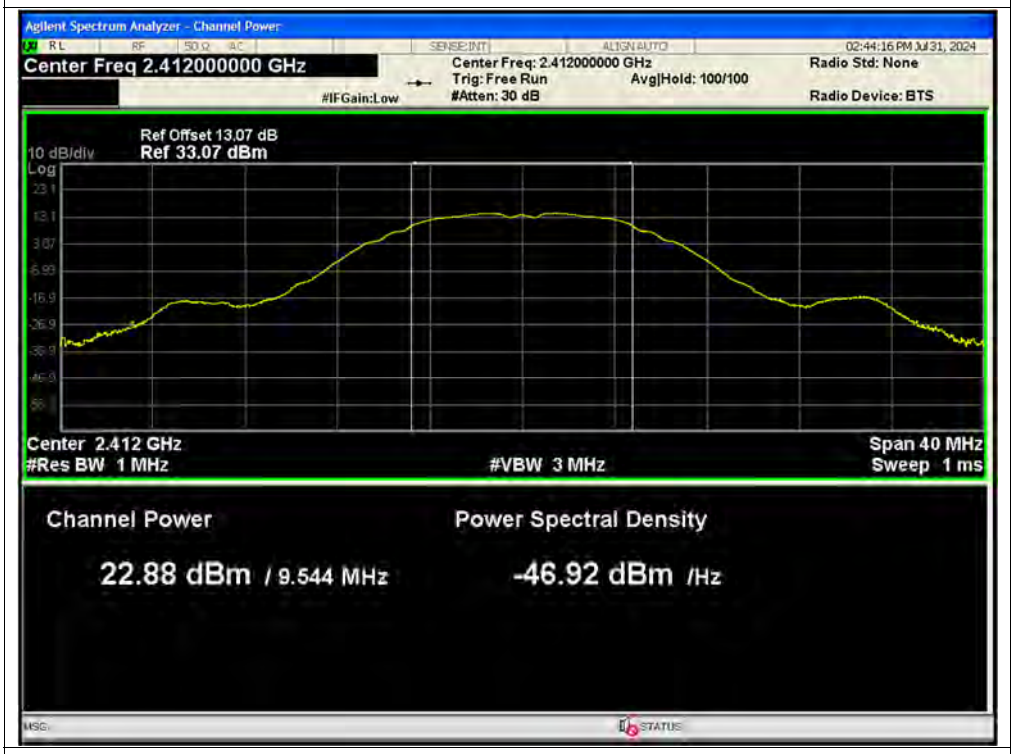
Duty Cycle NVNT n20 2462MHz Ant2



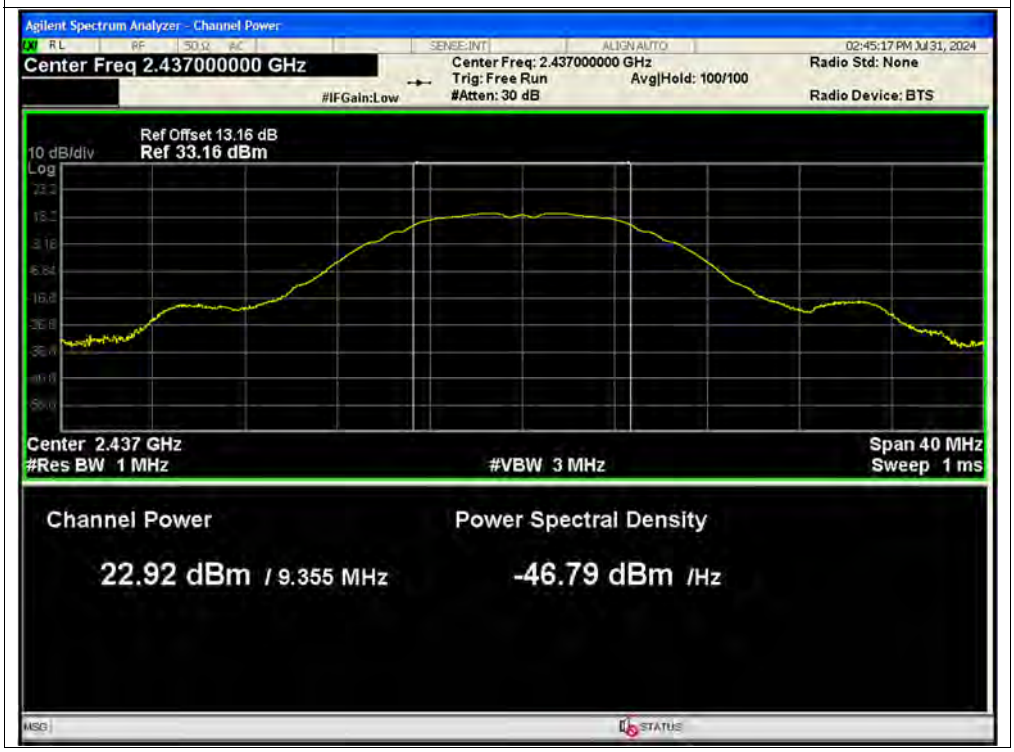
A.2. Maximum Peak Conducted Output Power

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	22.88	0	22.88	0.19409	30	Pass
NVNT	b	2437	Ant1	22.92	0	22.92	0.19588	30	Pass
NVNT	b	2462	Ant1	23.11	0	23.11	0.20464	30	Pass
NVNT	b	2412	Ant2	21.57	0	21.57	0.14355	30	Pass
NVNT	b	2437	Ant2	21.25	0	21.25	0.13335	30	Pass
NVNT	b	2462	Ant2	22.07	0	22.07	0.16106	30	Pass
NVNT	g	2412	Ant1	21.93	0	21.93	0.15596	30	Pass
NVNT	g	2437	Ant1	22.08	0	22.08	0.16144	30	Pass
NVNT	g	2462	Ant1	22.14	0	22.14	0.16368	30	Pass
NVNT	g	2412	Ant2	21.31	0	21.31	0.13521	30	Pass
NVNT	g	2437	Ant2	21.48	0	21.48	0.1406	30	Pass
NVNT	g	2462	Ant2	21.9	0	21.9	0.15488	30	Pass
NVNT	n20	2412	Ant1	21.17	0	21.17	0.13092	30	Pass
NVNT	n20	2437	Ant1	21.91	0	21.91	0.15524	30	Pass
NVNT	n20	2462	Ant1	21.6	0	21.6	0.14454	30	Pass
NVNT	n20	2412	Ant2	21.12	0	21.12	0.12942	30	Pass
NVNT	n20	2437	Ant2	20.53	0	20.53	0.11298	30	Pass
NVNT	n20	2462	Ant2	21.92	0	21.92	0.1556	30	Pass

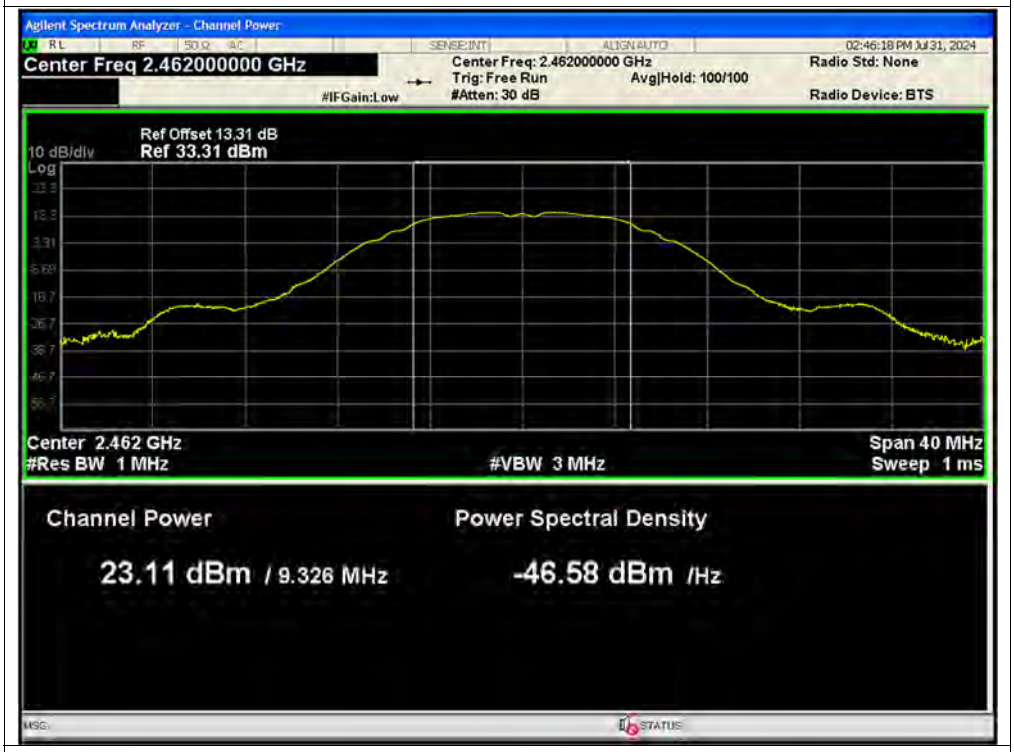
Test Graphs
Peak Power NVNT b 2412MHz Ant1



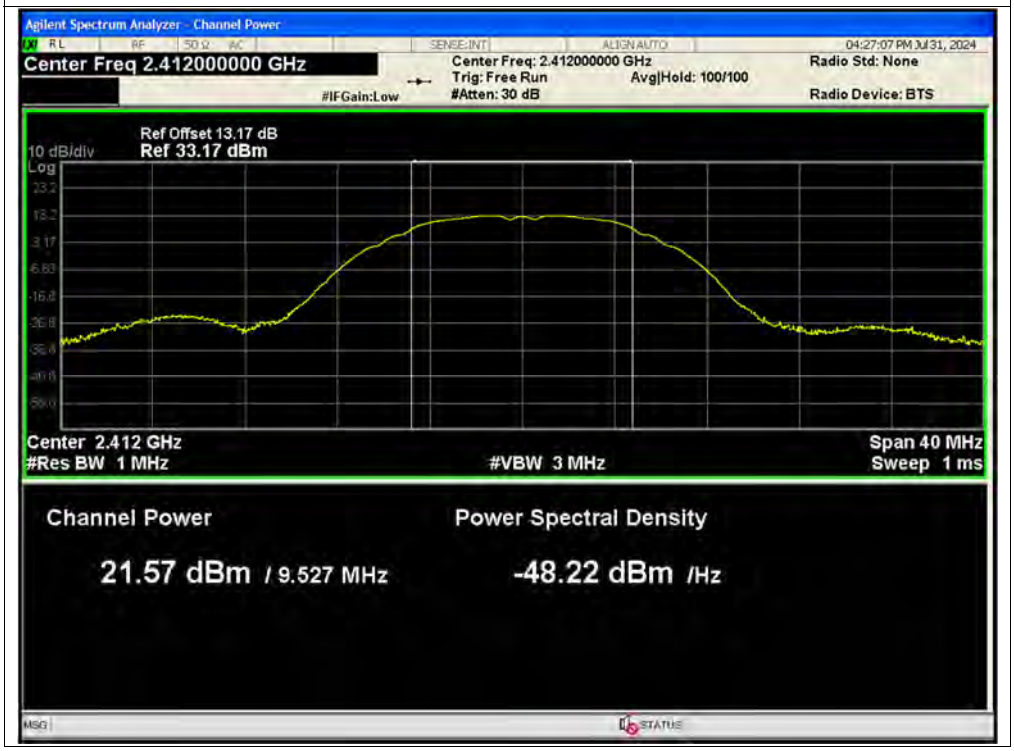
Peak Power NVNT b 2437MHz Ant1



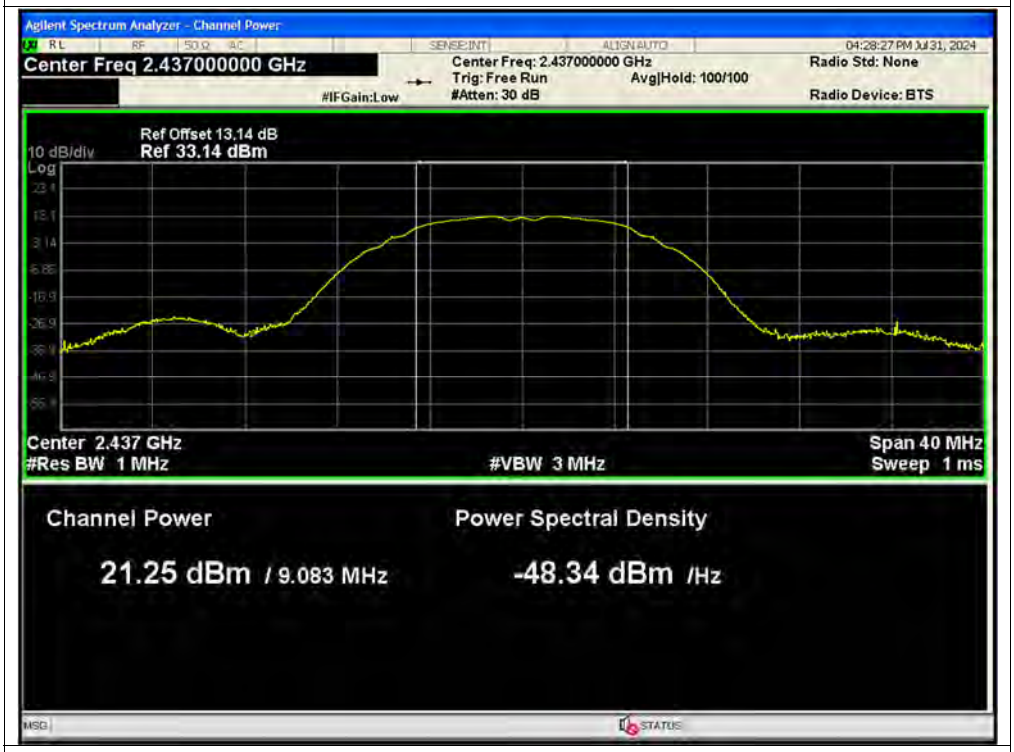
Peak Power NVNT b 2462MHz Ant1



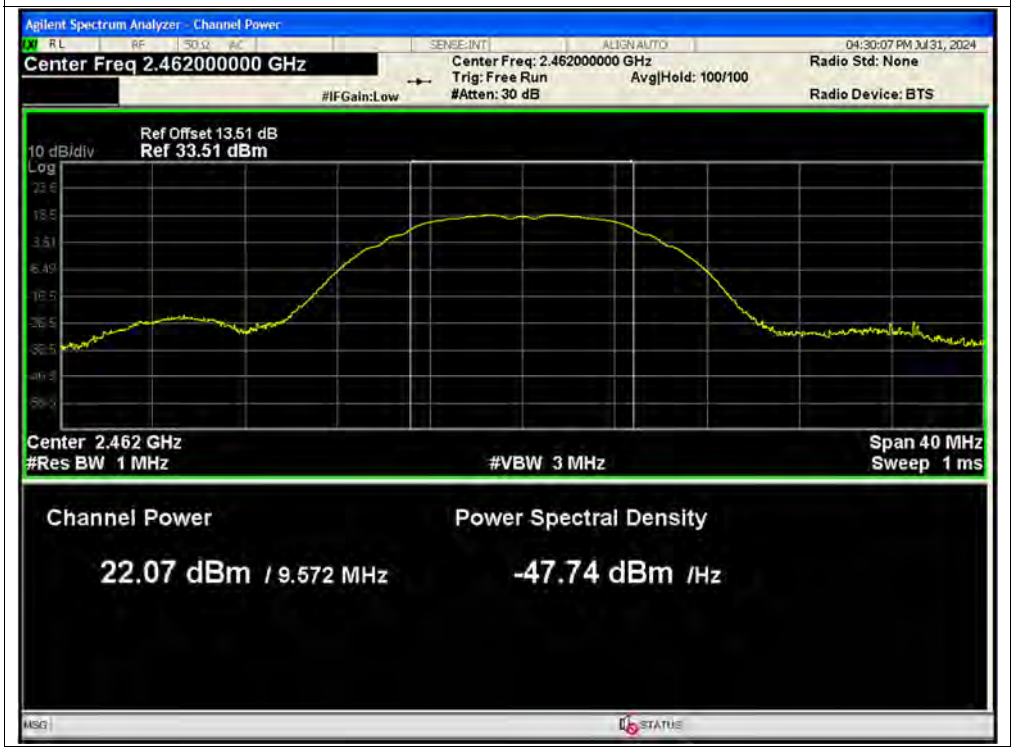
Peak Power NVNT b 2412MHz Ant2



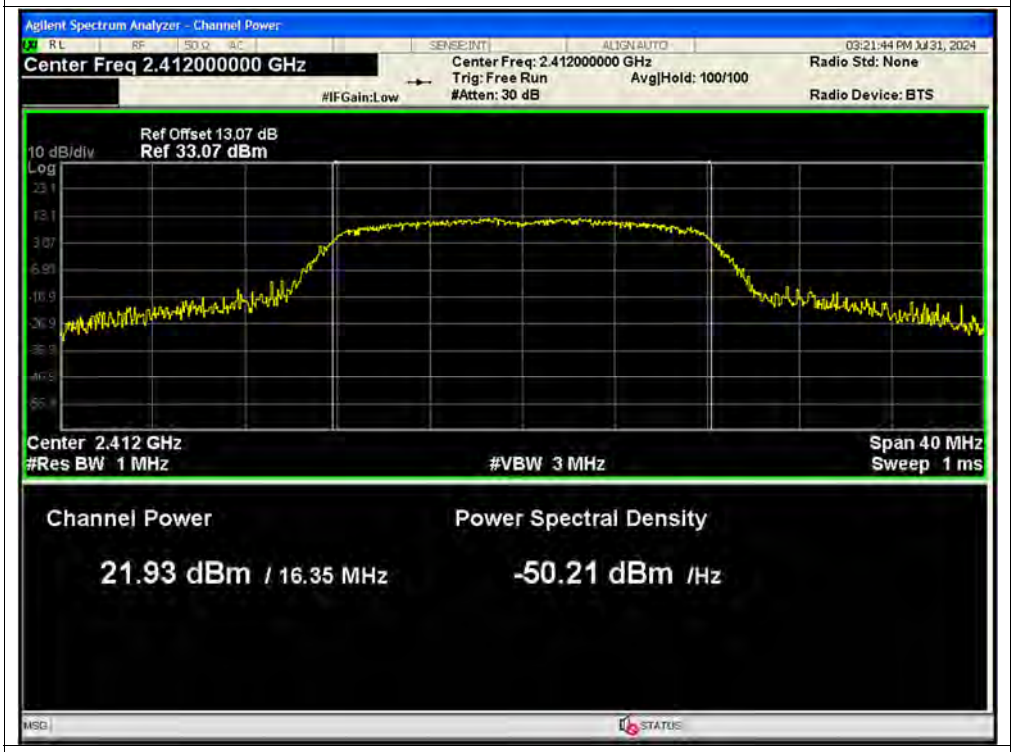
Peak Power NVNT b 2437MHz Ant2



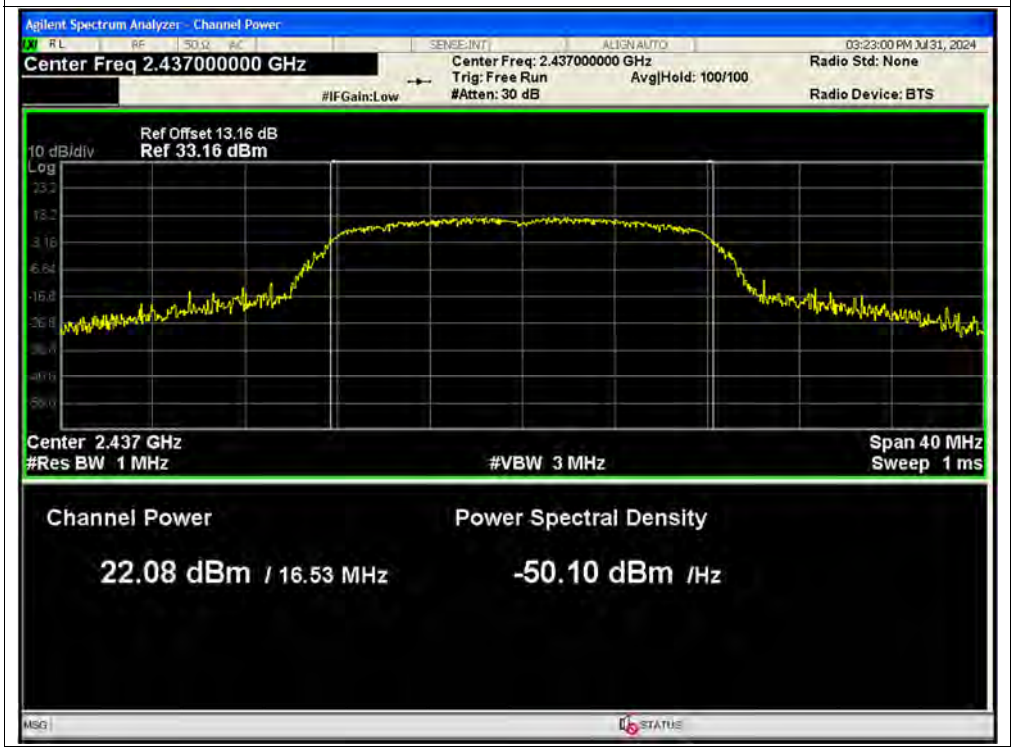
Peak Power NVNT b 2462MHz Ant2



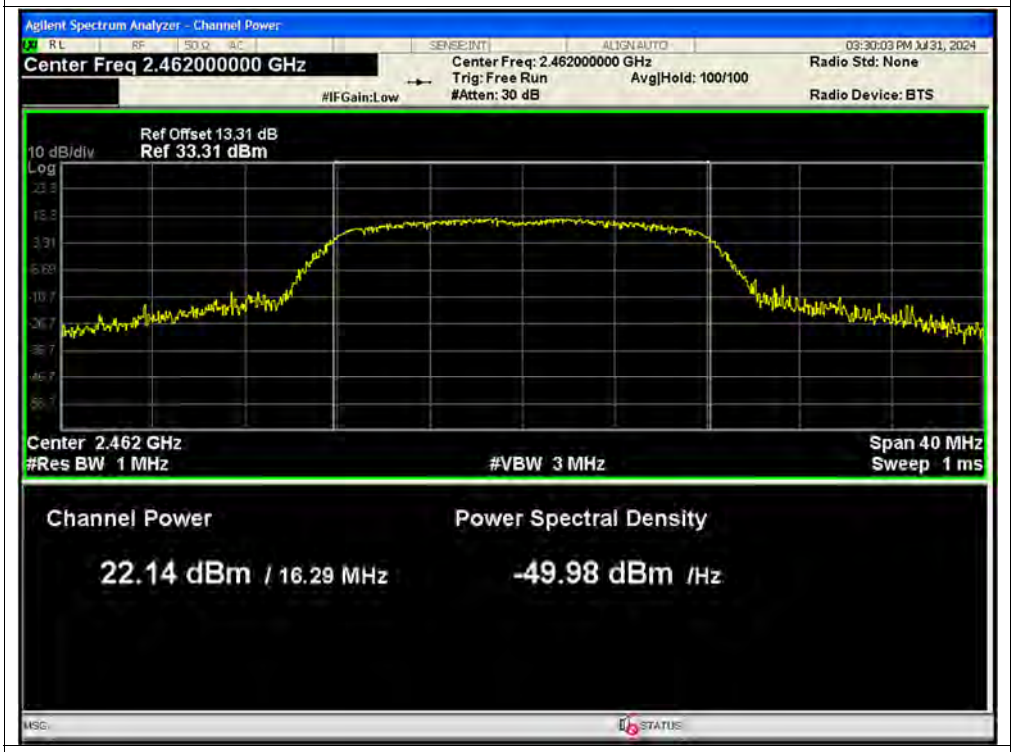
Peak Power NVNT g 2412MHz Ant1



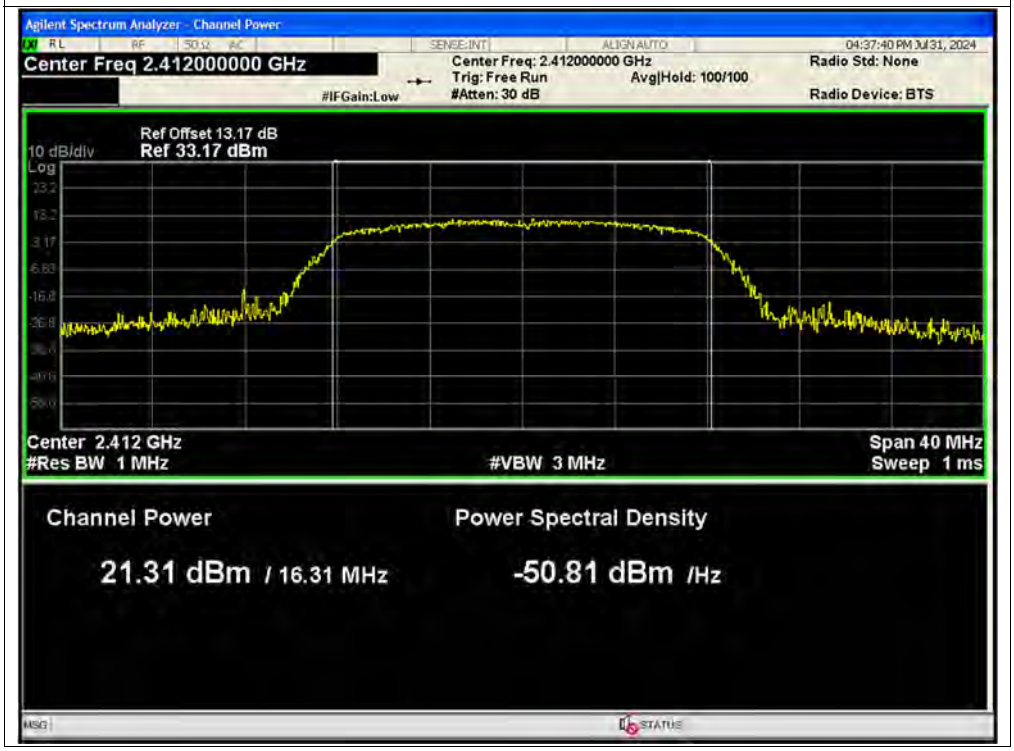
Peak Power NVNT g 2437MHz Ant1



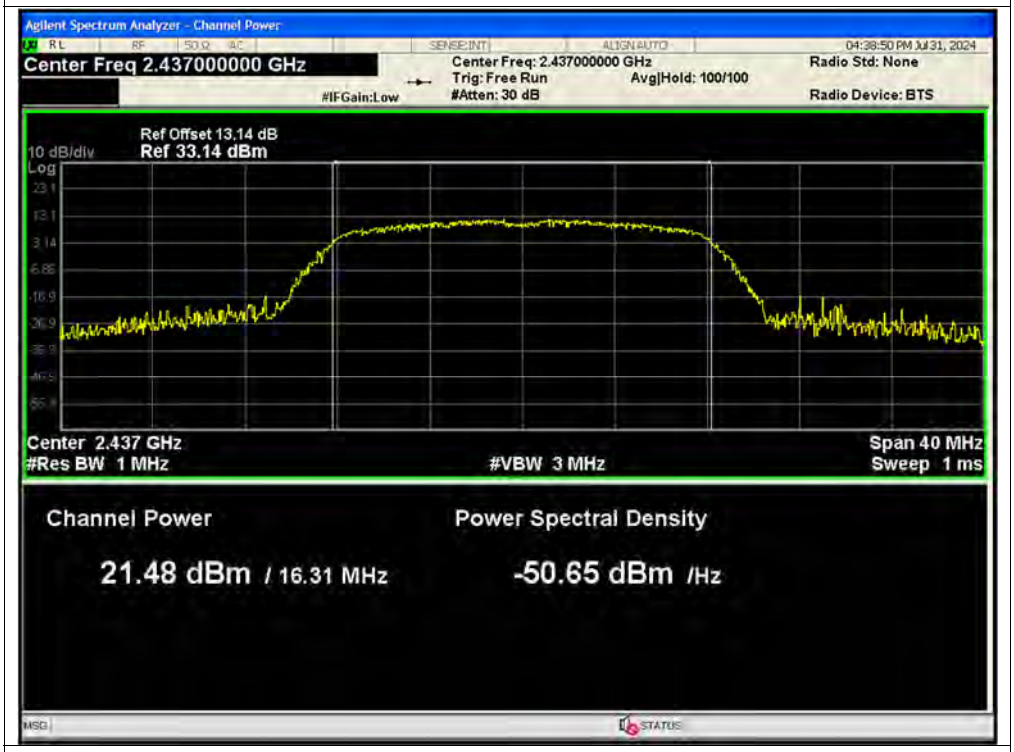
Peak Power NVNT g 2462MHz Ant1



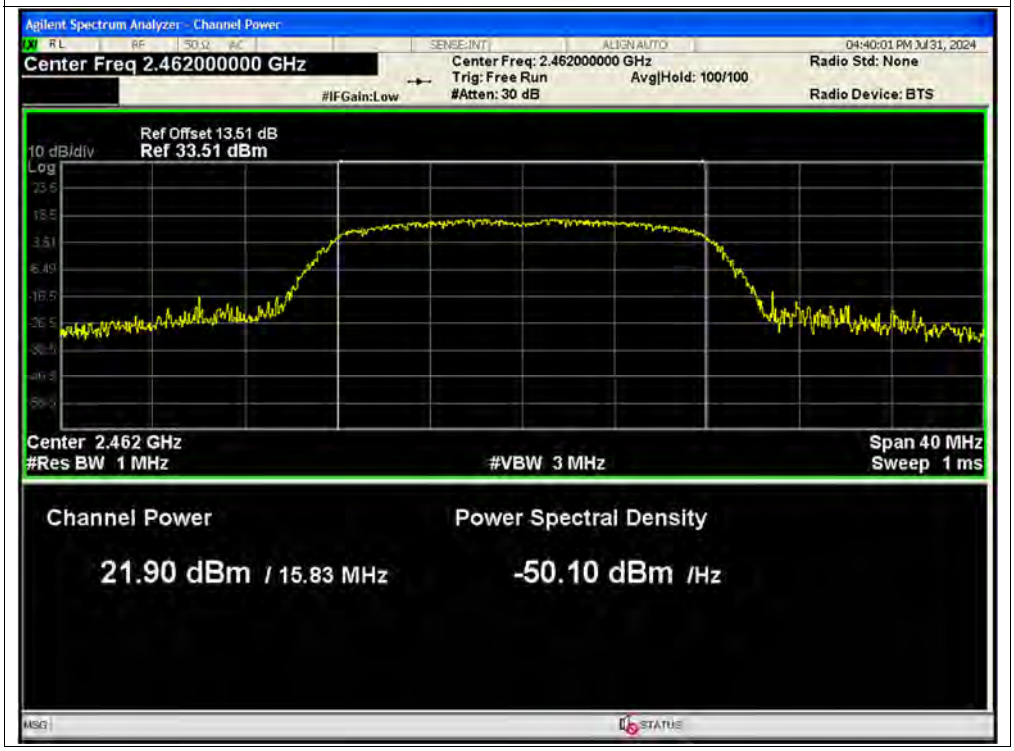
Peak Power NVNT g 2412MHz Ant2



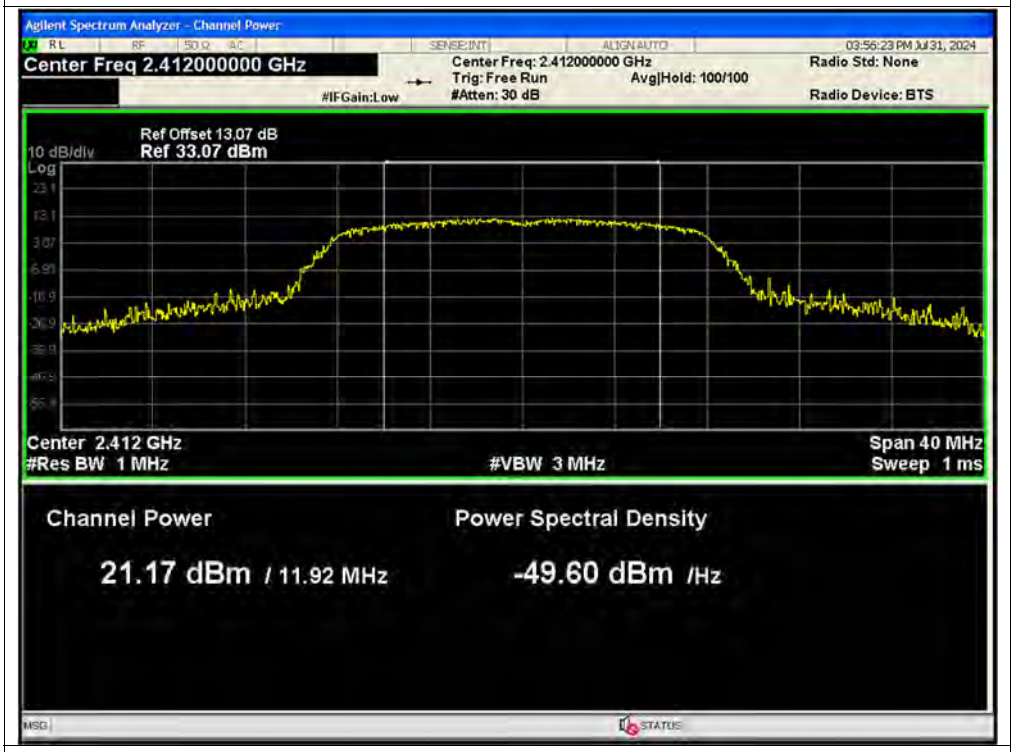
Peak Power NVNT g 2437MHz Ant2



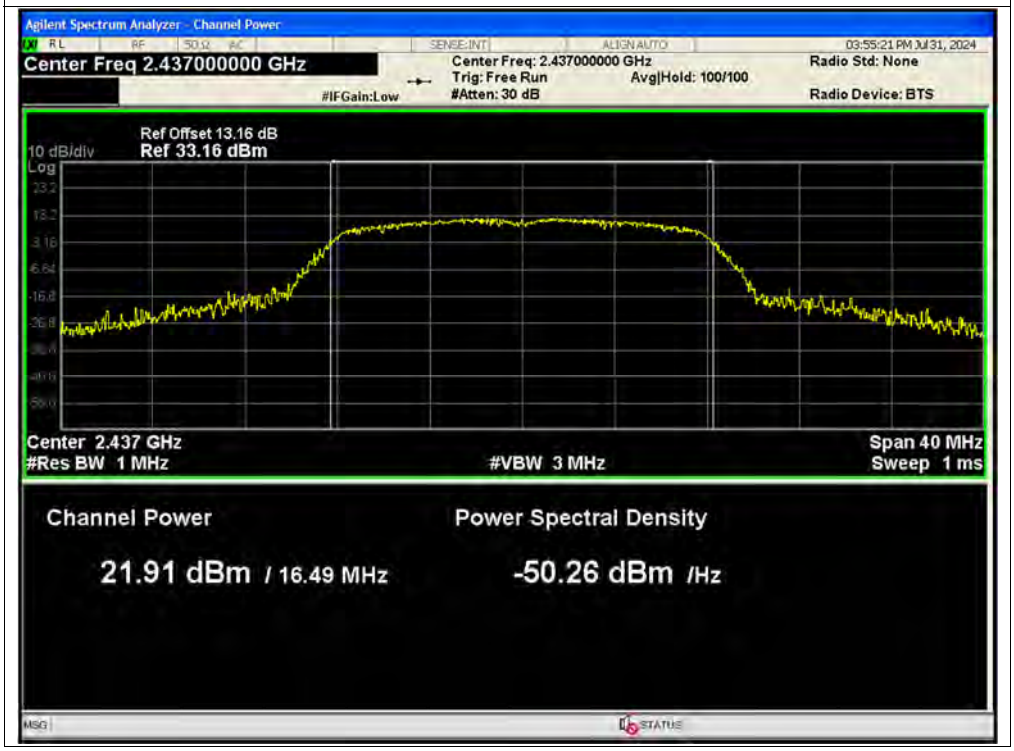
Peak Power NVNT g 2462MHz Ant2



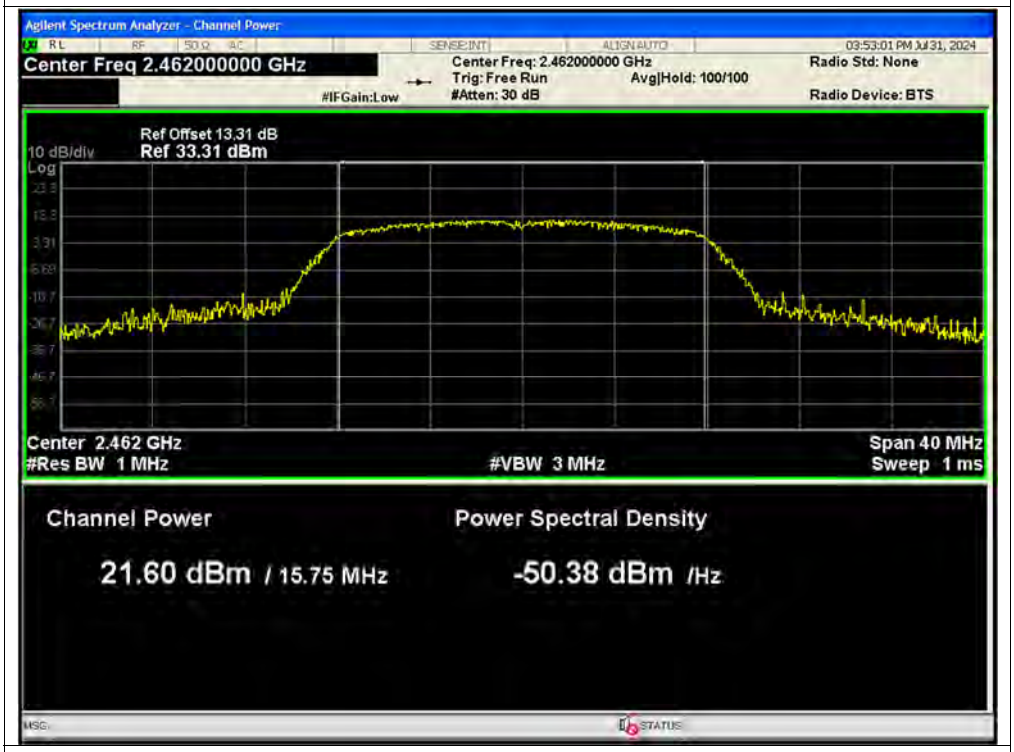
Peak Power NVNT n20 2412MHz Ant1



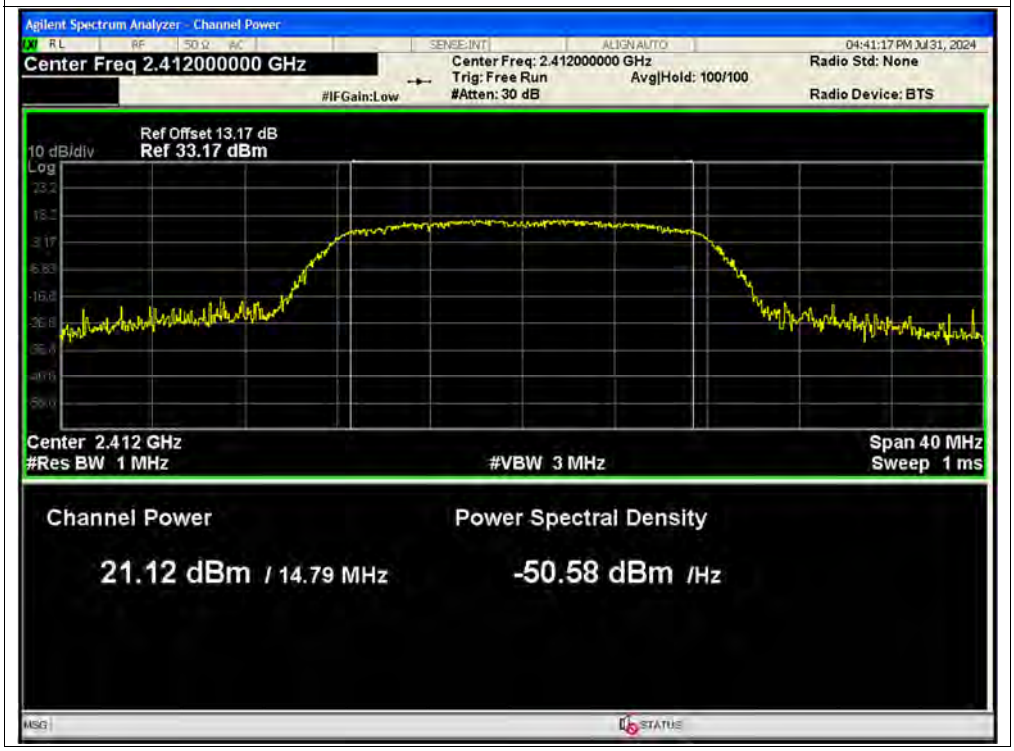
Peak Power NVNT n20 2437MHz Ant1



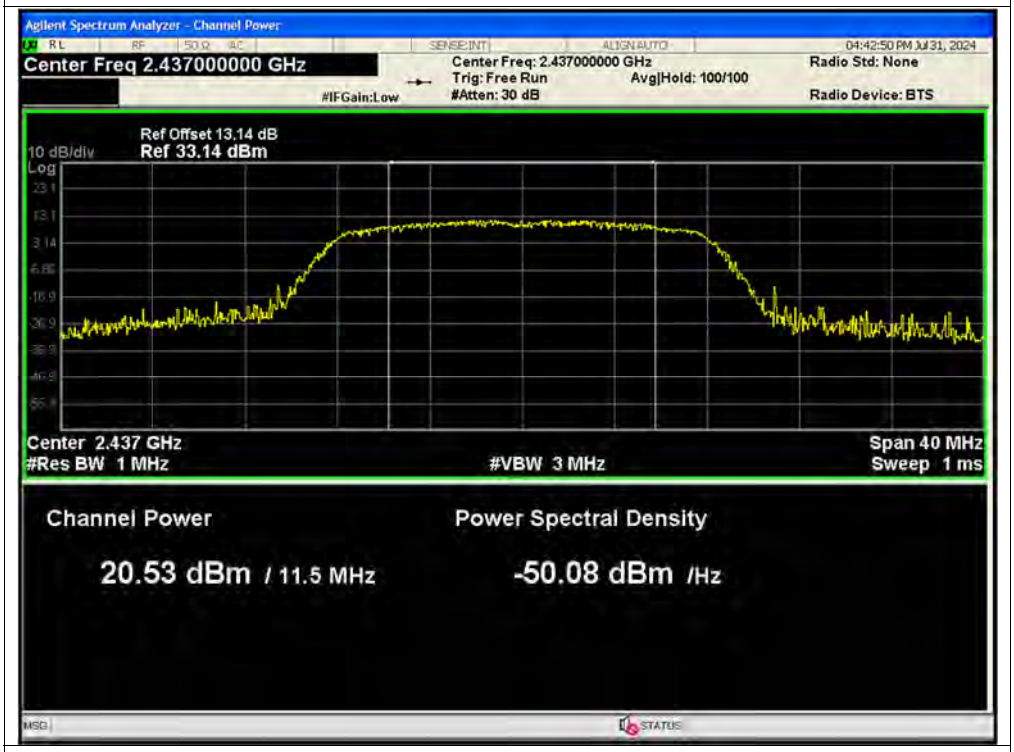
Peak Power NVNT n20 2462MHz Ant1



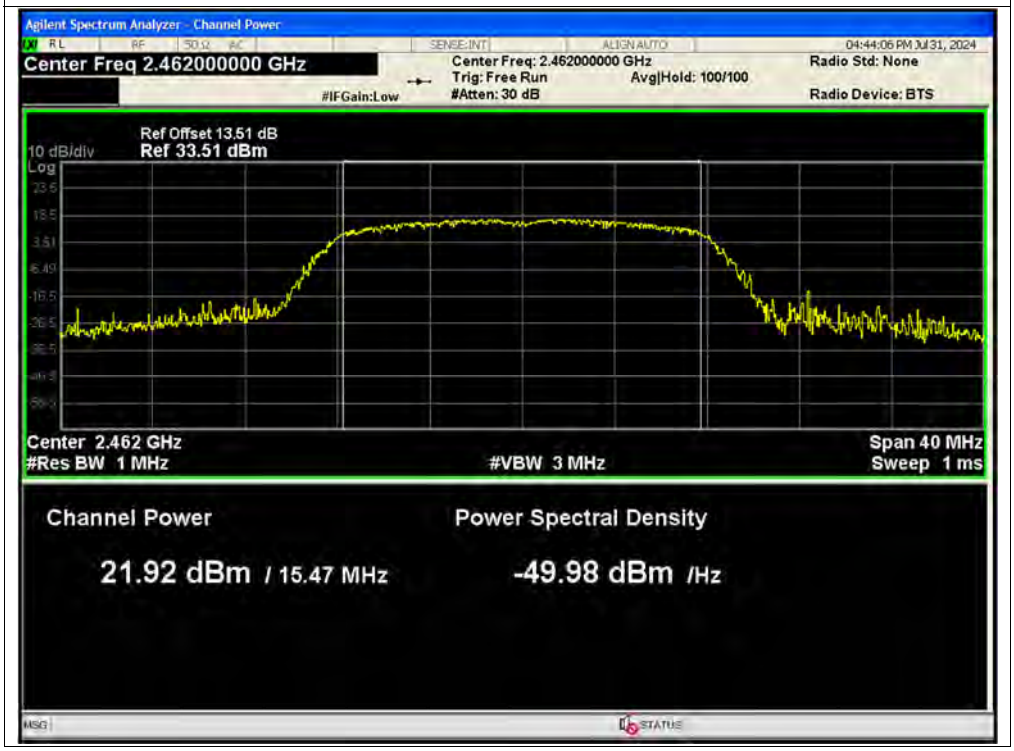
Peak Power NVNT n20 2412MHz Ant2



Peak Power NVNT n20 2437MHz Ant2



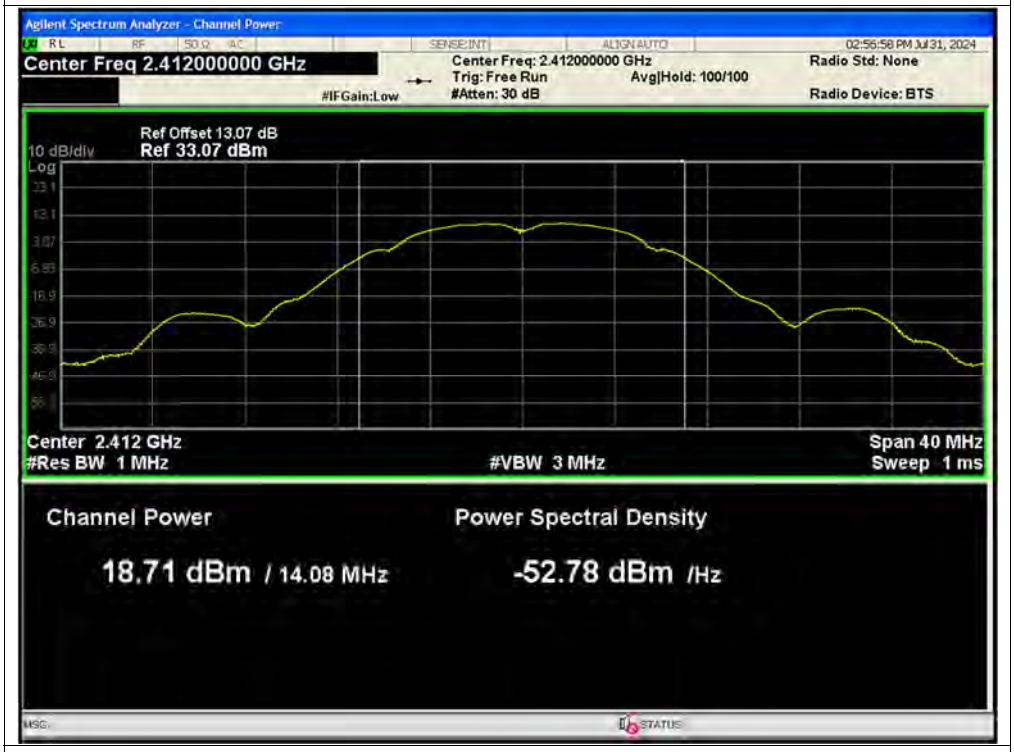
Peak Power NVNT n20 2462MHz Ant2



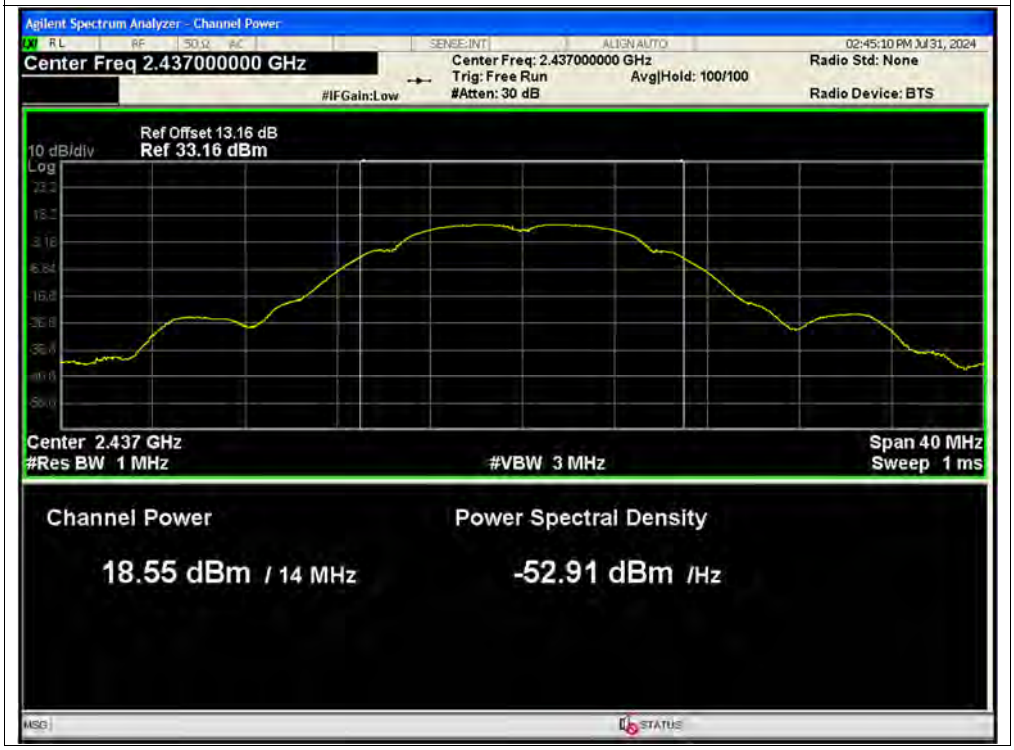
A.3. Maximum Average Conducted Output Power

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	18.71	1.73	20.44	0.11066	30	Pass
NVNT	b	2437	Ant1	18.55	1.73	20.28	0.10666	30	Pass
NVNT	b	2462	Ant1	18.67	1.73	20.4	0.10965	30	Pass
NVNT	b	2412	Ant2	17.45	1.73	19.18	0.08279	30	Pass
NVNT	b	2437	Ant2	17.05	1.73	18.78	0.07551	30	Pass
NVNT	b	2462	Ant2	17.81	1.73	19.54	0.08995	30	Pass
NVNT	g	2412	Ant1	14.85	0	14.85	0.03055	30	Pass
NVNT	g	2437	Ant1	14.25	0	14.25	0.02661	30	Pass
NVNT	g	2462	Ant1	15.01	0	15.01	0.0317	30	Pass
NVNT	g	2412	Ant2	14.1	0	14.1	0.0257	30	Pass
NVNT	g	2437	Ant2	14.27	0	14.27	0.02673	30	Pass
NVNT	g	2462	Ant2	14.73	0	14.73	0.02972	30	Pass
NVNT	n20	2412	Ant1	14.83	0	14.83	0.03041	30	Pass
NVNT	n20	2437	Ant1	14.77	0	14.77	0.02999	30	Pass
NVNT	n20	2462	Ant1	14.47	0	14.47	0.02799	30	Pass
NVNT	n20	2412	Ant2	14.07	0	14.07	0.02553	30	Pass
NVNT	n20	2437	Ant2	14.24	0	14.24	0.02655	30	Pass
NVNT	n20	2462	Ant2	14.73	0	14.73	0.02972	30	Pass

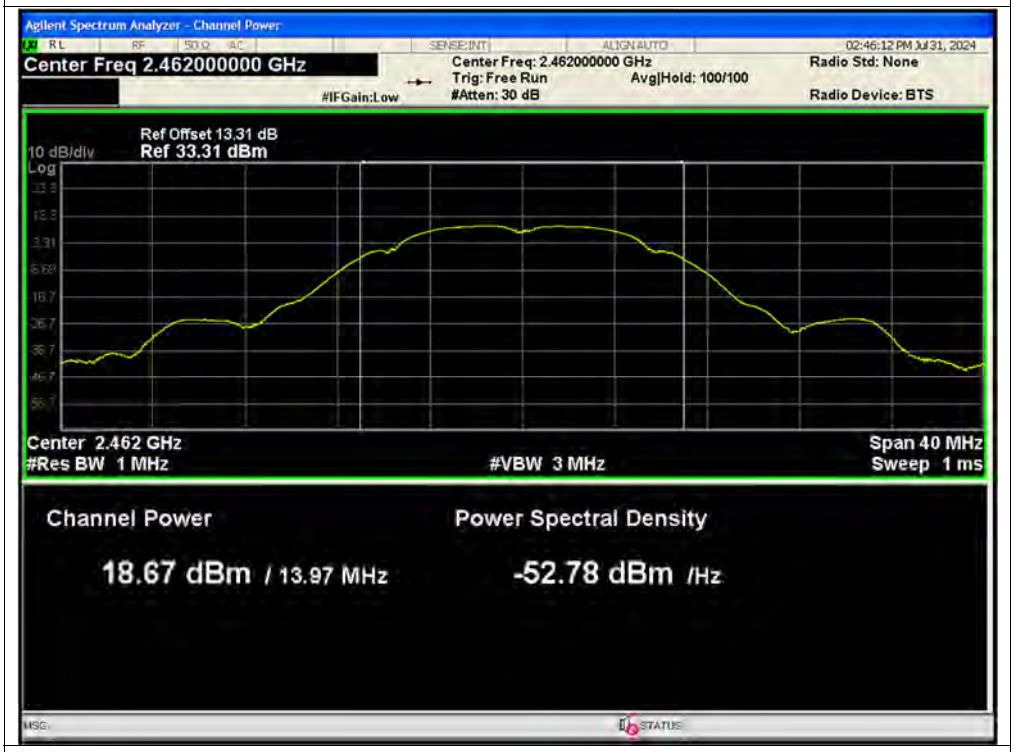
Test Graphs
Average Power NVNT b 2412MHz Ant1



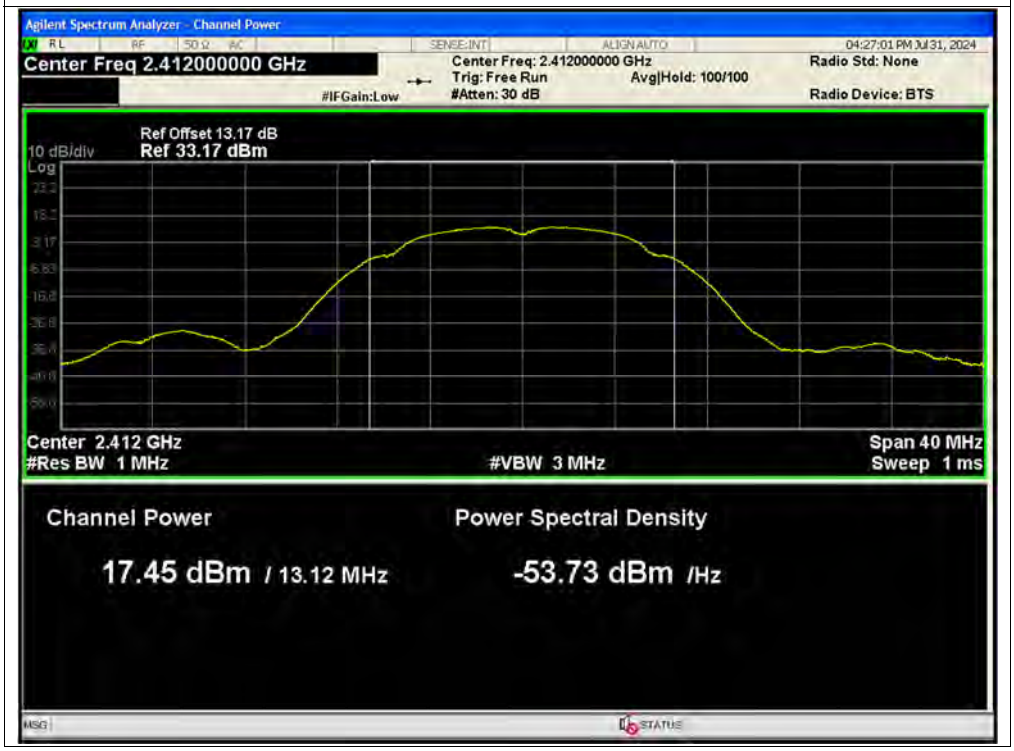
Average Power NVNT b 2437MHz Ant1



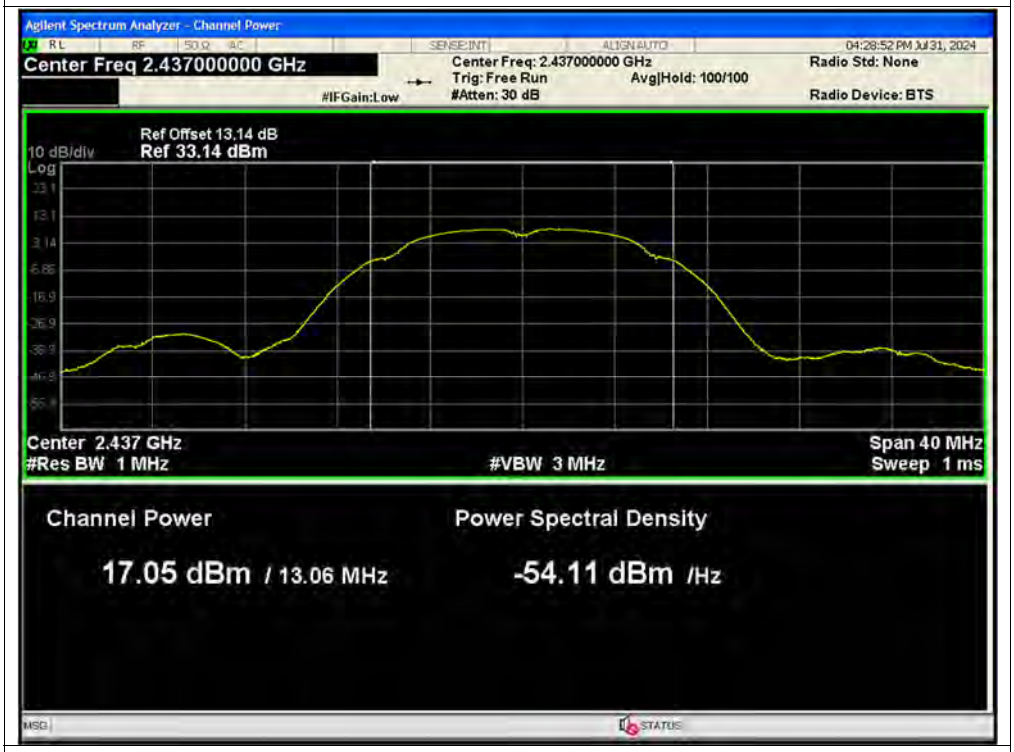
Average Power NVNT b 2462MHz Ant1



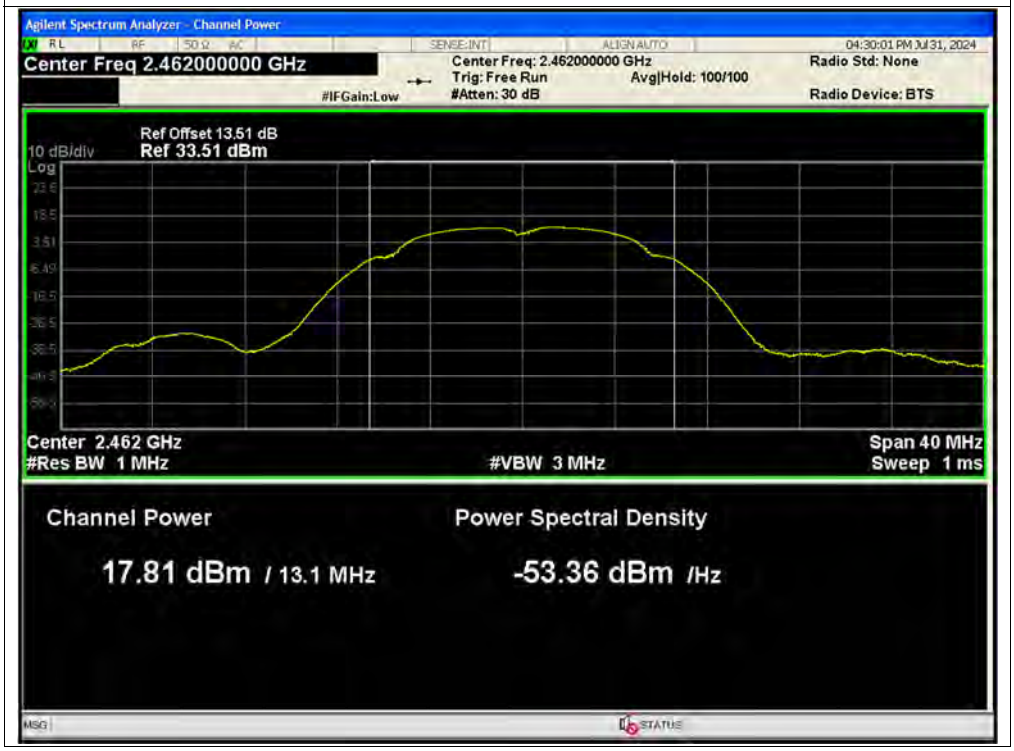
Average Power NVNT b 2412MHz Ant2



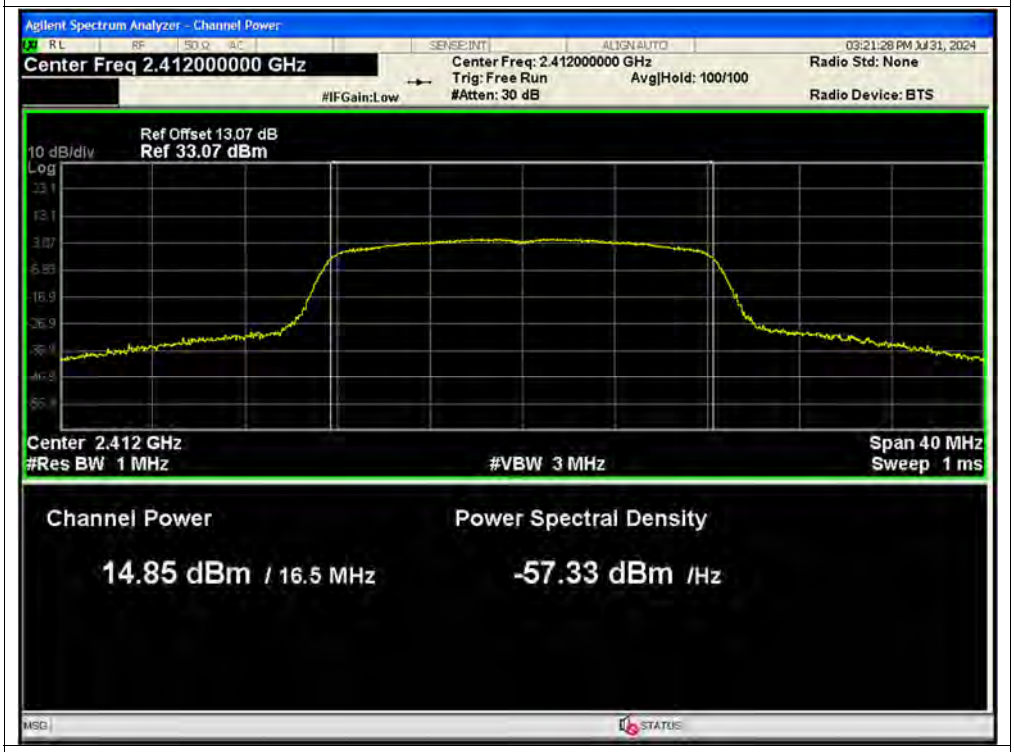
Average Power NVNT b 2437MHz Ant2



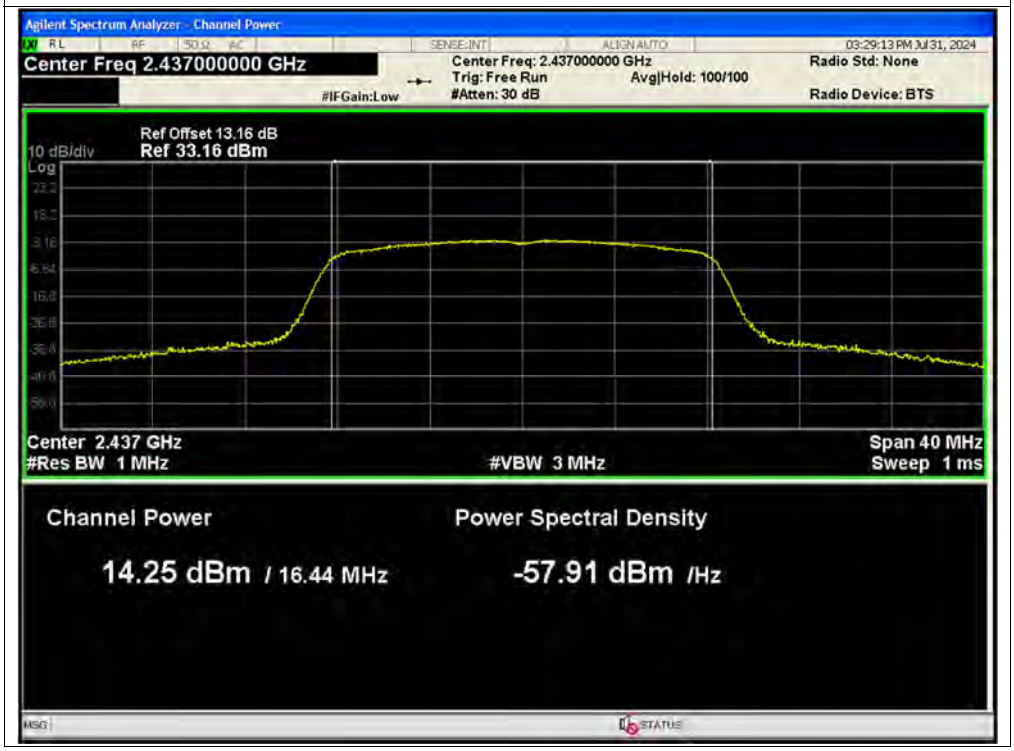
Average Power NVNT b 2462MHz Ant2



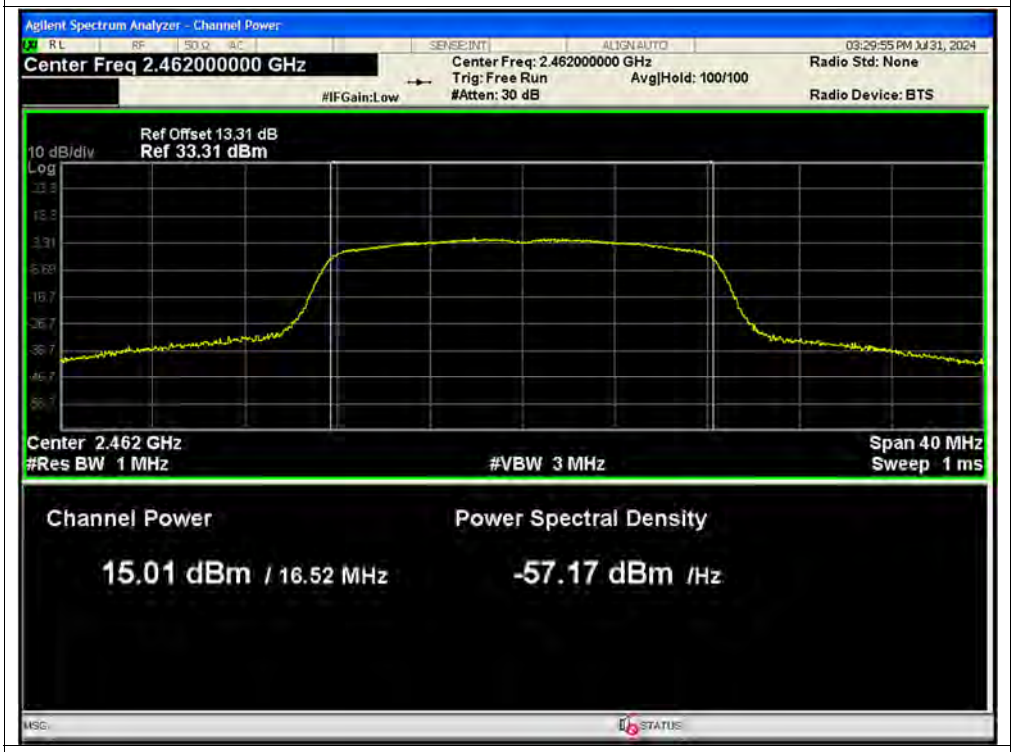
Average Power NVNT g 2412MHz Ant1



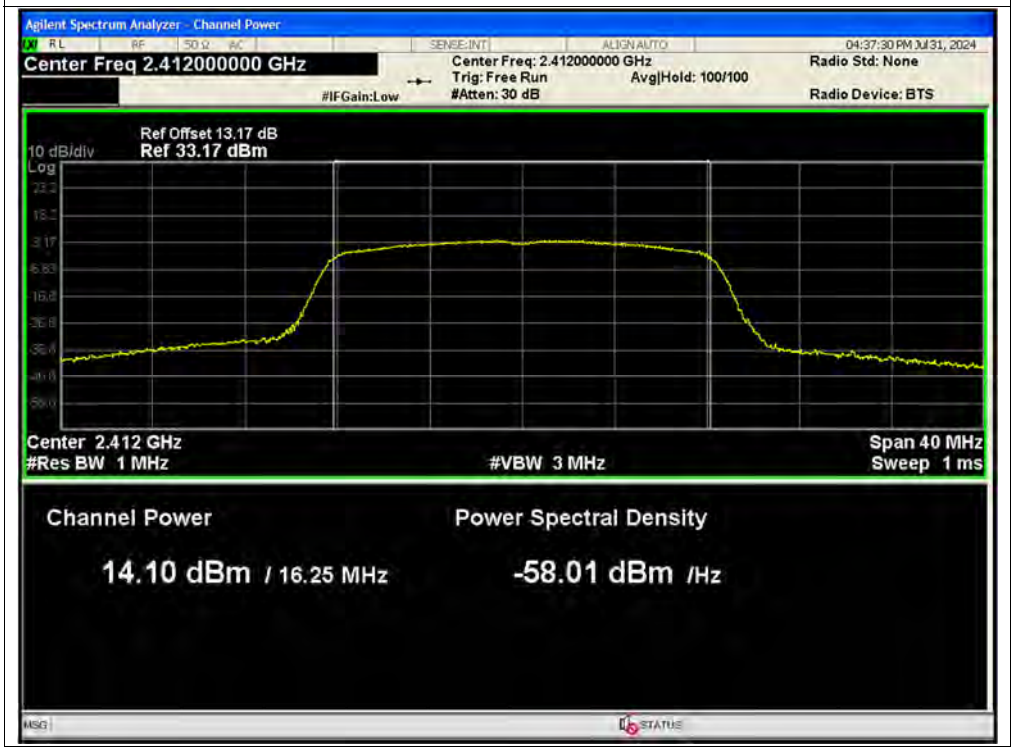
Average Power NVNT g 2437MHz Ant1



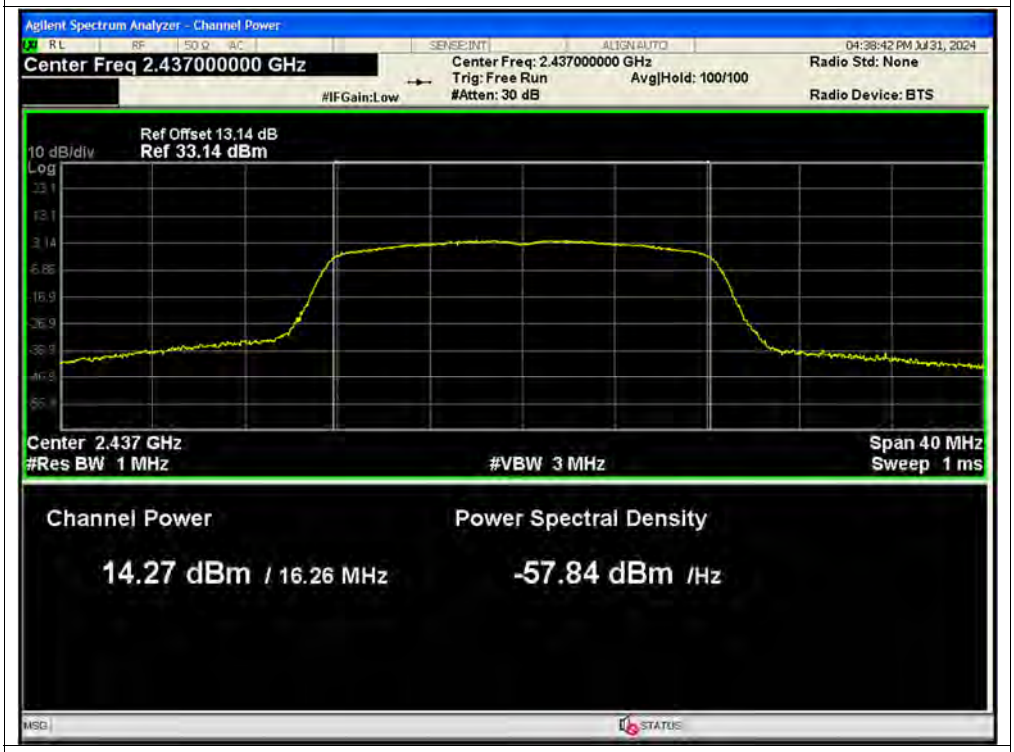
Average Power NVNT g 2462MHz Ant1



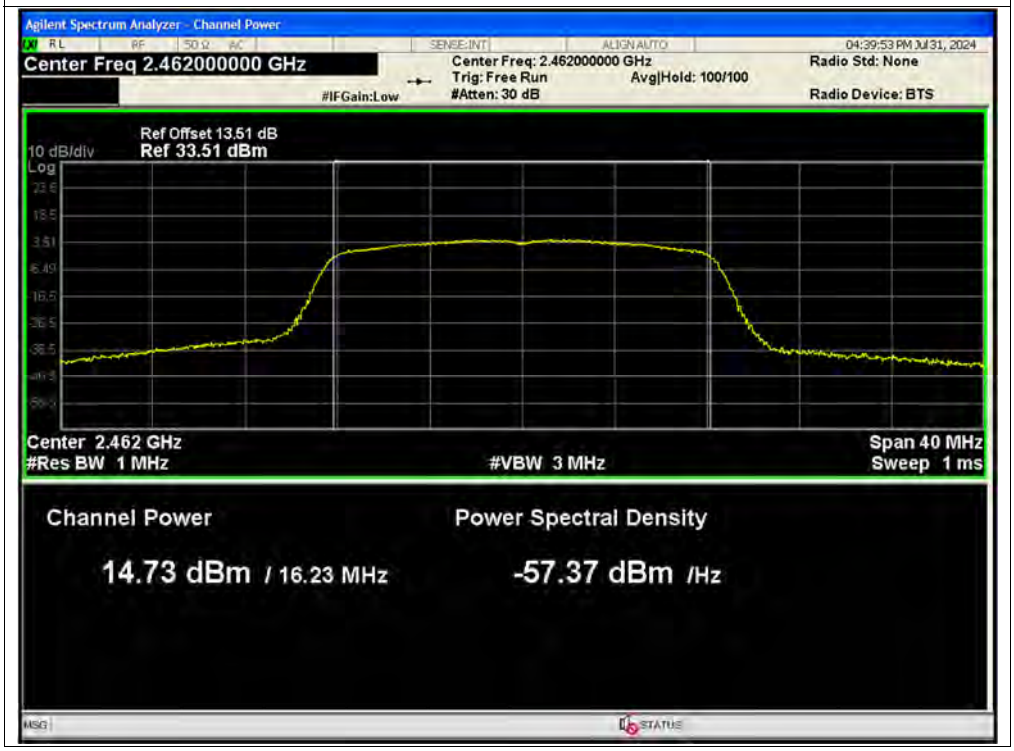
Average Power NVNT g 2412MHz Ant2



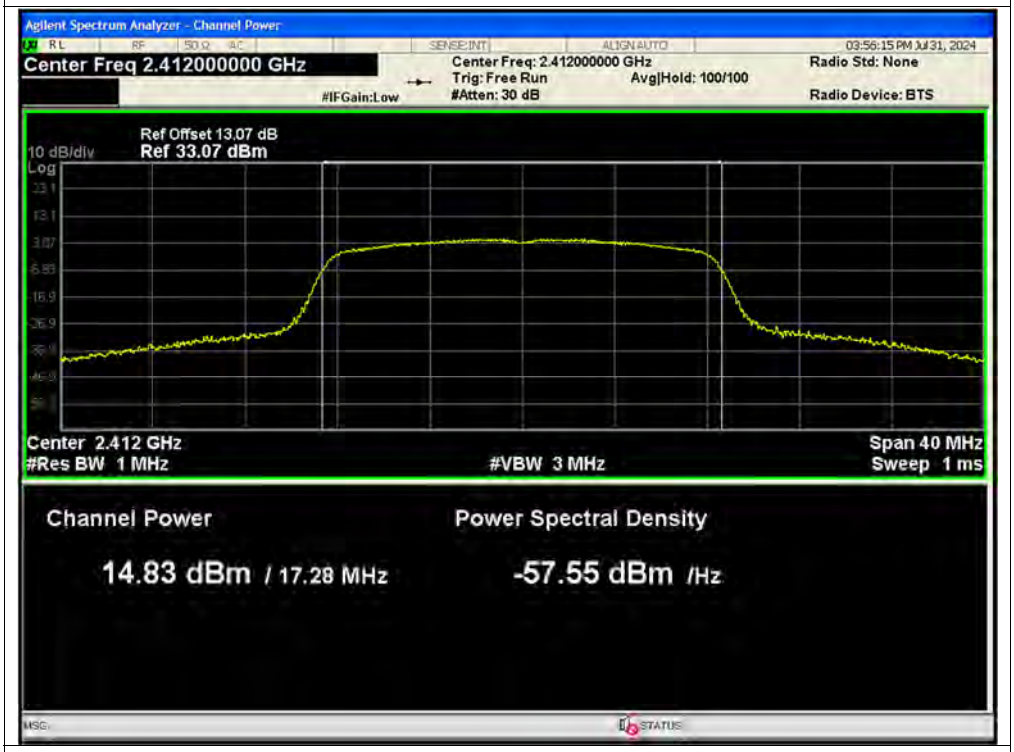
Average Power NVNT g 2437MHz Ant2



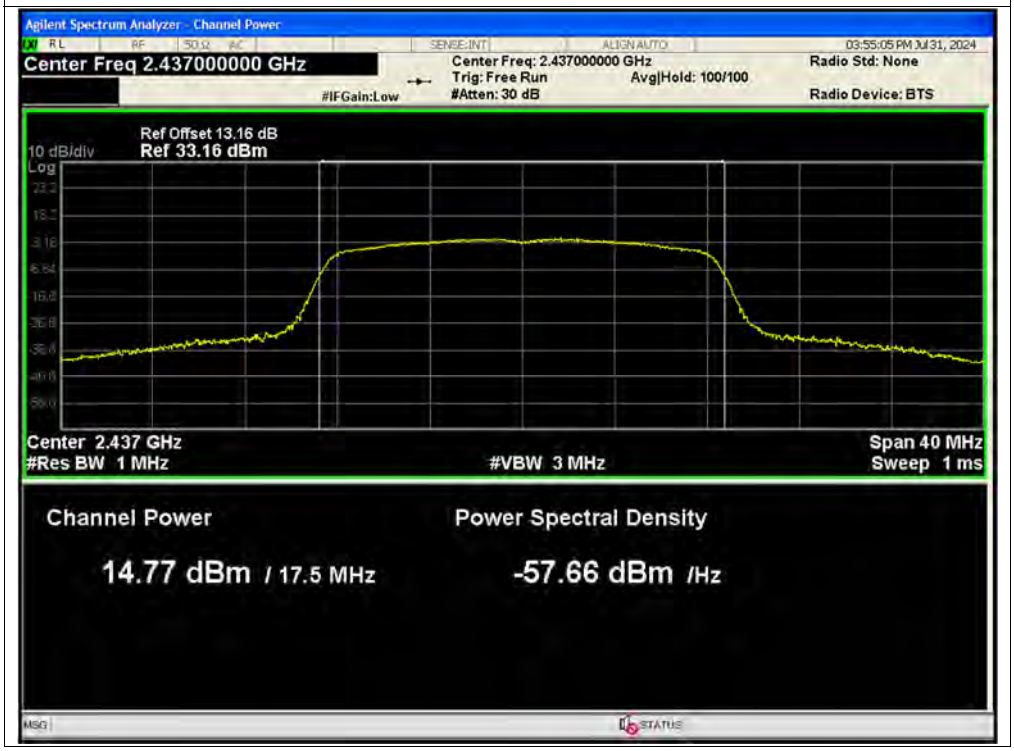
Average Power NVNT g 2462MHz Ant2



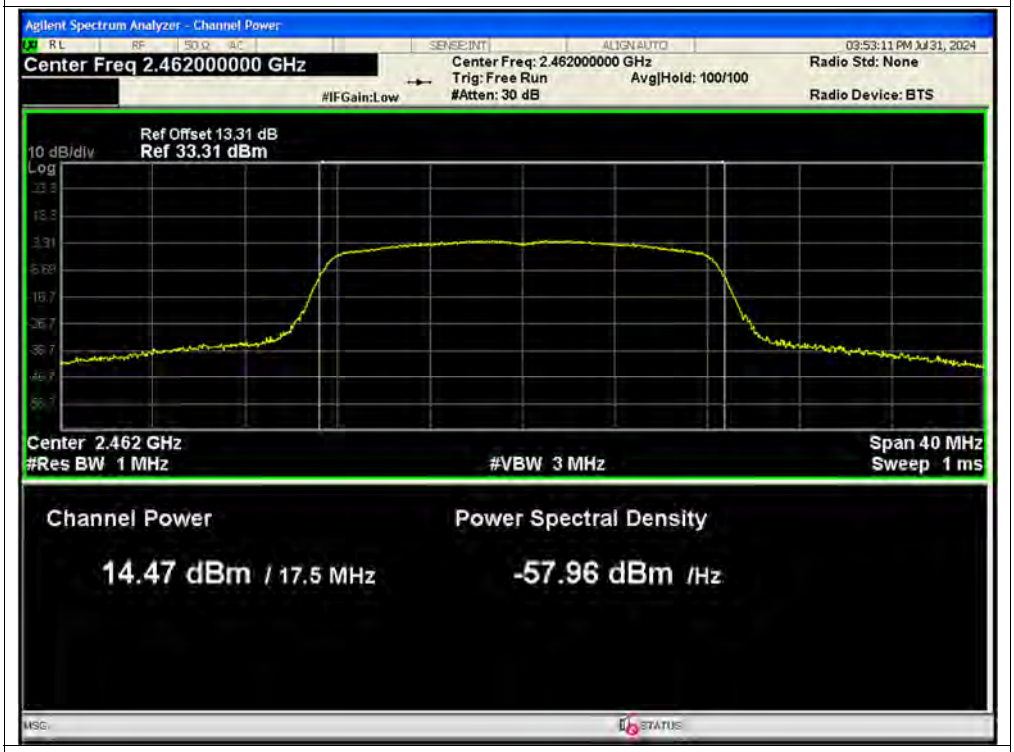
Average Power NVNT n20 2412MHz Ant1



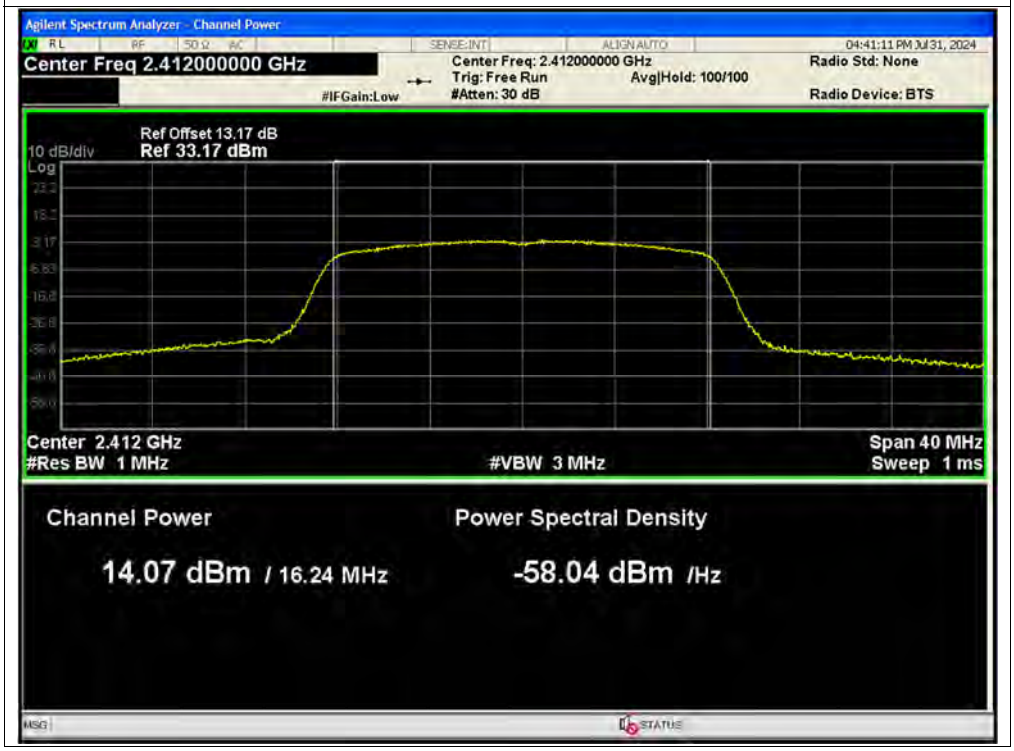
Average Power NVNT n20 2437MHz Ant1



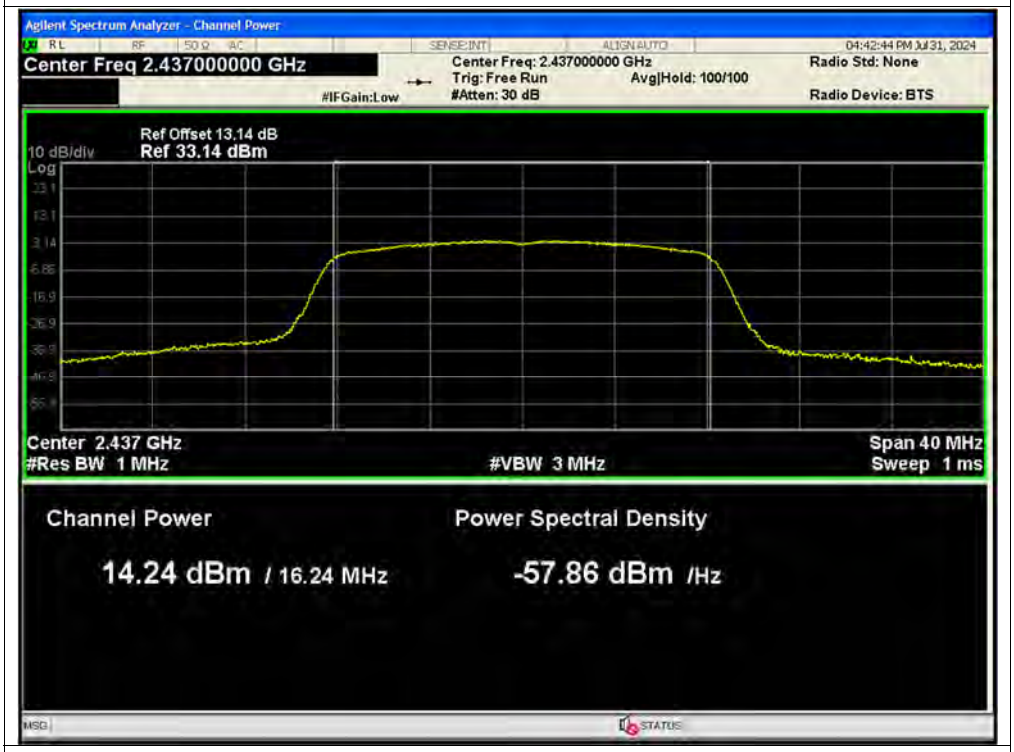
Average Power NVNT n20 2462MHz Ant1



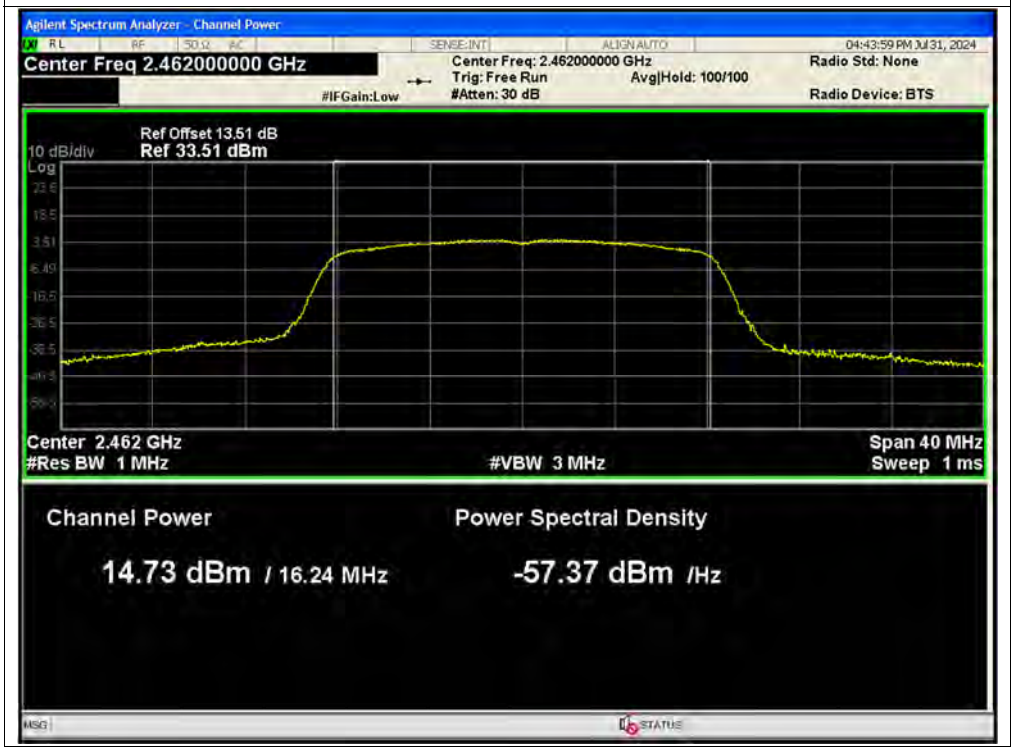
Average Power NVNT n20 2412MHz Ant2



Average Power NVNT n20 2437MHz Ant2



Average Power NVNT n20 2462MHz Ant2



A.4. 6 dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.544	0.5	Pass
NVNT	b	2437	Ant1	9.355	0.5	Pass
NVNT	b	2462	Ant1	9.326	0.5	Pass
NVNT	b	2412	Ant2	9.527	0.5	Pass
NVNT	b	2437	Ant2	9.083	0.5	Pass
NVNT	b	2462	Ant2	9.572	0.5	Pass
NVNT	g	2412	Ant1	16.349	0.5	Pass
NVNT	g	2437	Ant1	16.534	0.5	Pass
NVNT	g	2462	Ant1	16.289	0.5	Pass
NVNT	g	2412	Ant2	16.305	0.5	Pass
NVNT	g	2437	Ant2	16.306	0.5	Pass
NVNT	g	2462	Ant2	15.833	0.5	Pass
NVNT	n20	2412	Ant1	11.92	0.5	Pass
NVNT	n20	2437	Ant1	16.49	0.5	Pass
NVNT	n20	2462	Ant1	15.749	0.5	Pass
NVNT	n20	2412	Ant2	14.789	0.5	Pass
NVNT	n20	2437	Ant2	11.503	0.5	Pass
NVNT	n20	2462	Ant2	15.467	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 b 2412MHz Ant2

-6dB Bandwidth NVNT b 2437MHz Ant2

-6dB Bandwidth NVNT b 2462MHz Ant2

-6dB Bandwidth NVNT g 2412MHz Ant1

-6dB Bandwidth NVNT g 2437MHz Ant1

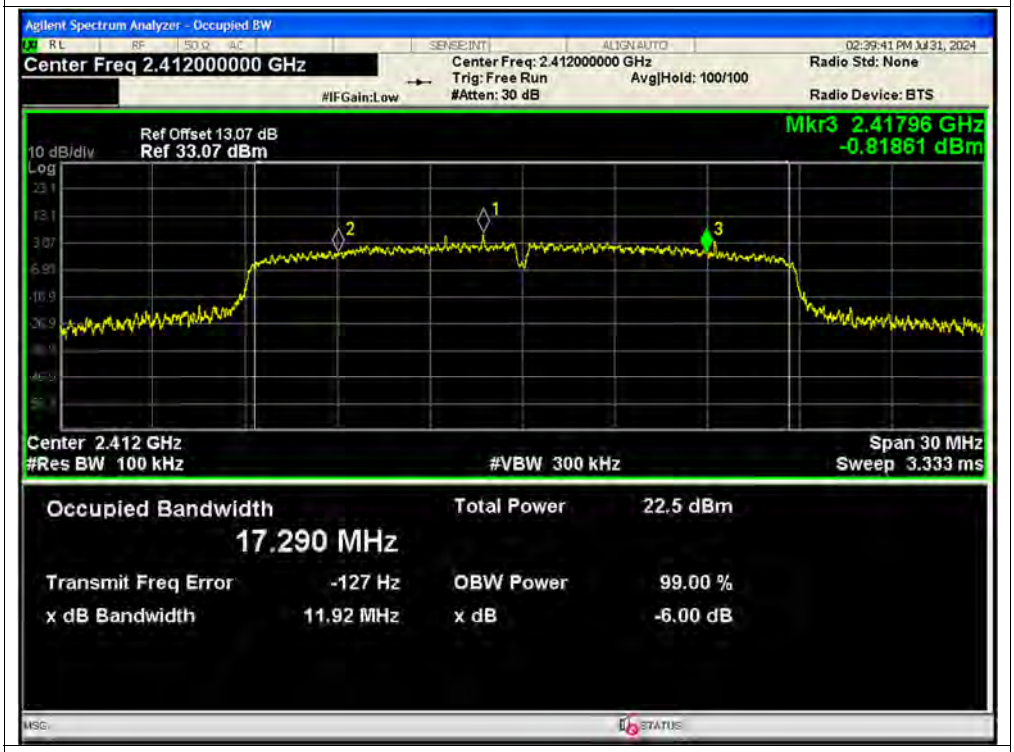
-6dB Bandwidth NVNT g 2462MHz Ant1

-6dB Bandwidth NVNT g 2412MHz Ant2

-6dB Bandwidth NVNT g 2437MHz Ant2

-6dB Bandwidth NVNT g 2462MHz Ant2

-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1

-6dB Bandwidth NVNT n20 2462MHz Ant1

-6dB Bandwidth NVNT n20 2412MHz Ant2

-6dB Bandwidth NVNT n20 2437MHz Ant2

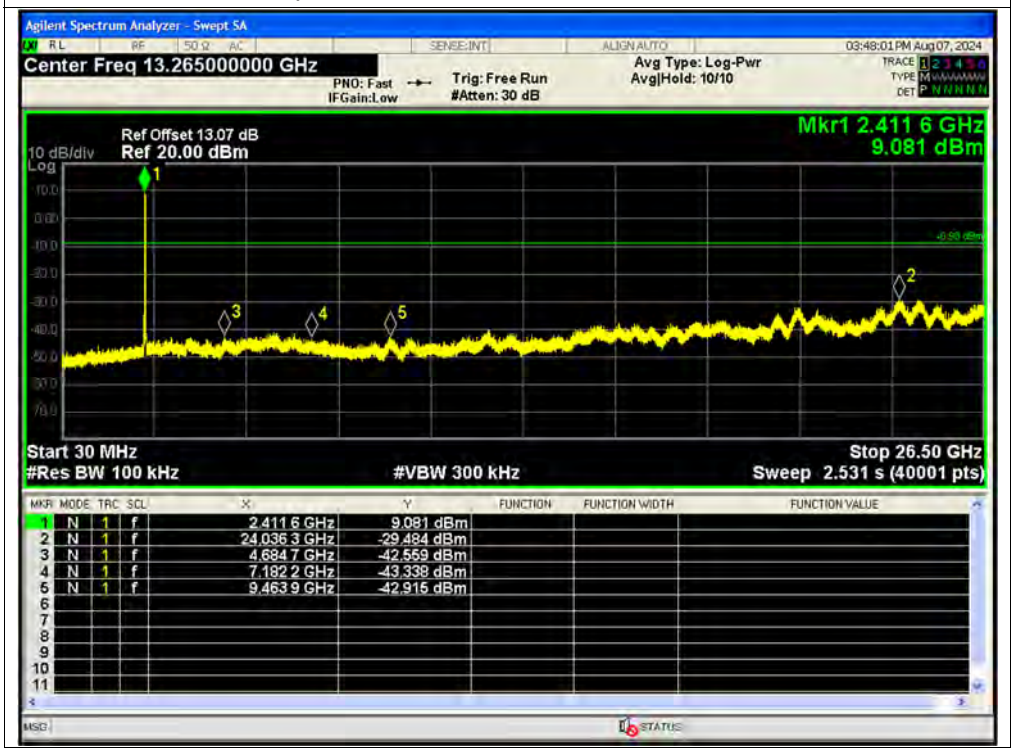
-6dB Bandwidth NVNT n20 2462MHz Ant2

A.5. Conducted Spurious Emissions

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-40.5	-20	Pass
NVNT	b	2437	Ant1	-39.78	-20	Pass
NVNT	b	2462	Ant1	-38.92	-20	Pass
NVNT	b	2412	Ant2	-37.63	-20	Pass
NVNT	b	2437	Ant2	-38.47	-20	Pass
NVNT	b	2462	Ant2	-38.3	-20	Pass
NVNT	g	2412	Ant1	-30.28	-20	Pass
NVNT	g	2437	Ant1	-32.41	-20	Pass
NVNT	g	2462	Ant1	-31.37	-20	Pass
NVNT	g	2412	Ant2	-31.27	-20	Pass
NVNT	g	2437	Ant2	-30.48	-20	Pass
NVNT	g	2462	Ant2	-31.03	-20	Pass
NVNT	n20	2412	Ant1	-31.87	-20	Pass
NVNT	n20	2437	Ant1	-31.62	-20	Pass
NVNT	n20	2462	Ant1	-31.03	-20	Pass
NVNT	n20	2412	Ant2	-31.79	-20	Pass
NVNT	n20	2437	Ant2	-31.71	-20	Pass
NVNT	n20	2462	Ant2	-31.12	-20	Pass

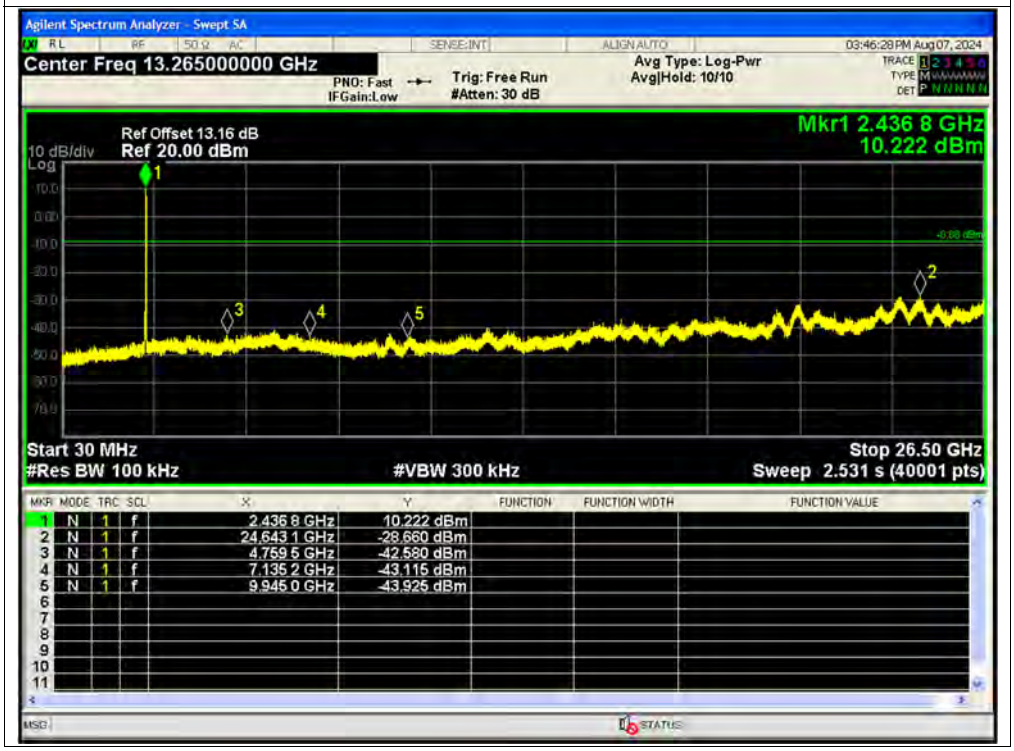
Test Graphs
Tx. Spurious NVNT b 2412MHz Ant1 Ref

Tx. Spurious NVNT b 2412MHz Ant1 Emission



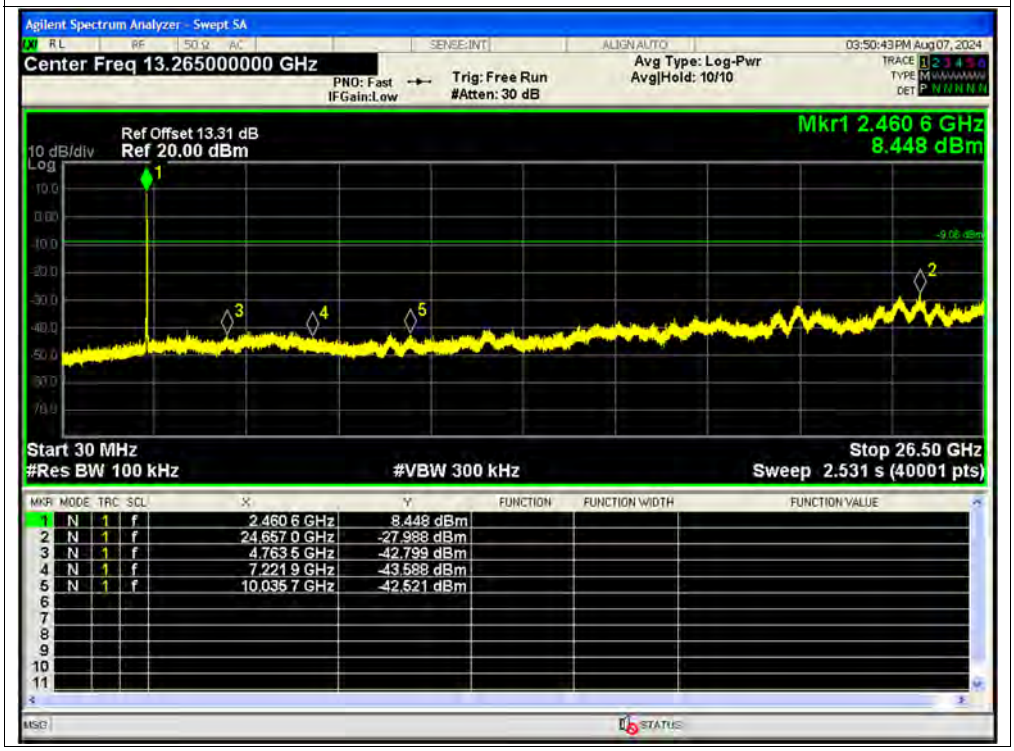
Tx. Spurious NVNT b 2437MHz Ant1 Ref

Tx. Spurious NVNT b 2437MHz Ant1 Emission



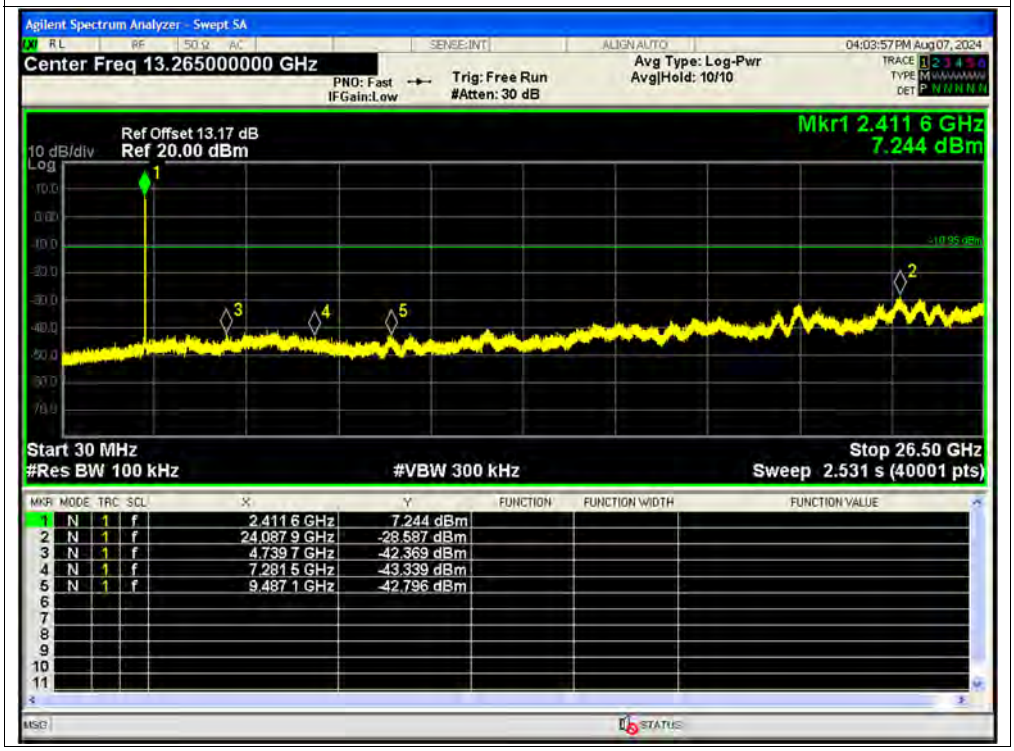
Tx. Spurious NVNT b 2462MHz Ant1 Ref

Tx. Spurious NVNT b 2462MHz Ant1 Emission



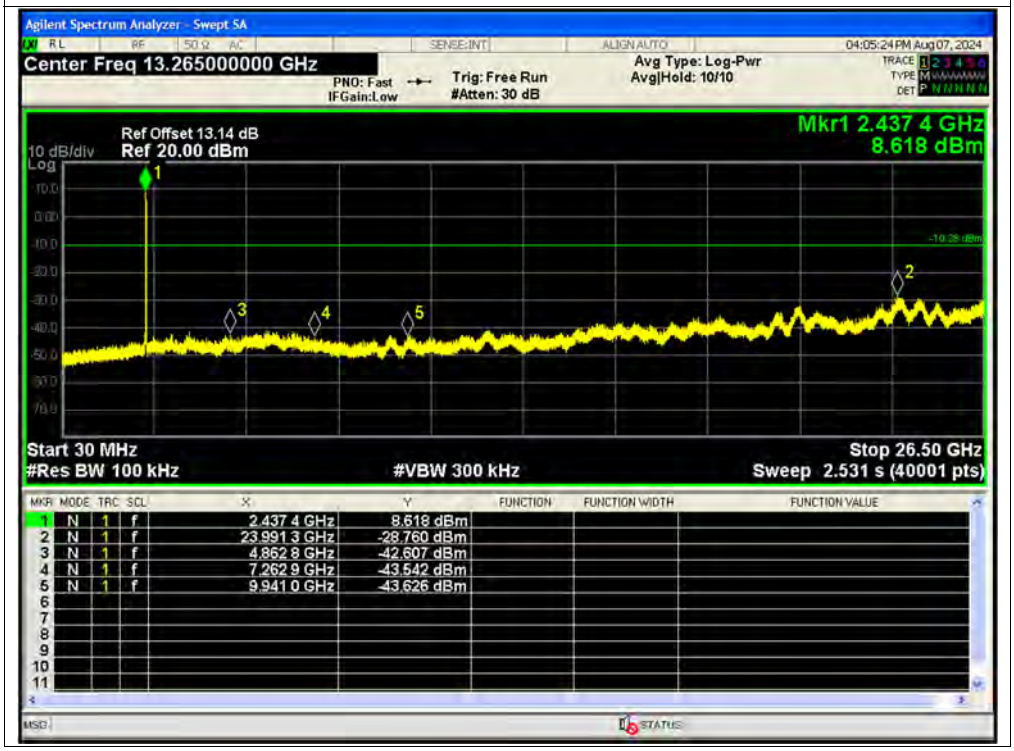
Tx. Spurious NVNT b 2412MHz Ant2 Ref

Tx. Spurious NVNT b 2412MHz Ant2 Emission



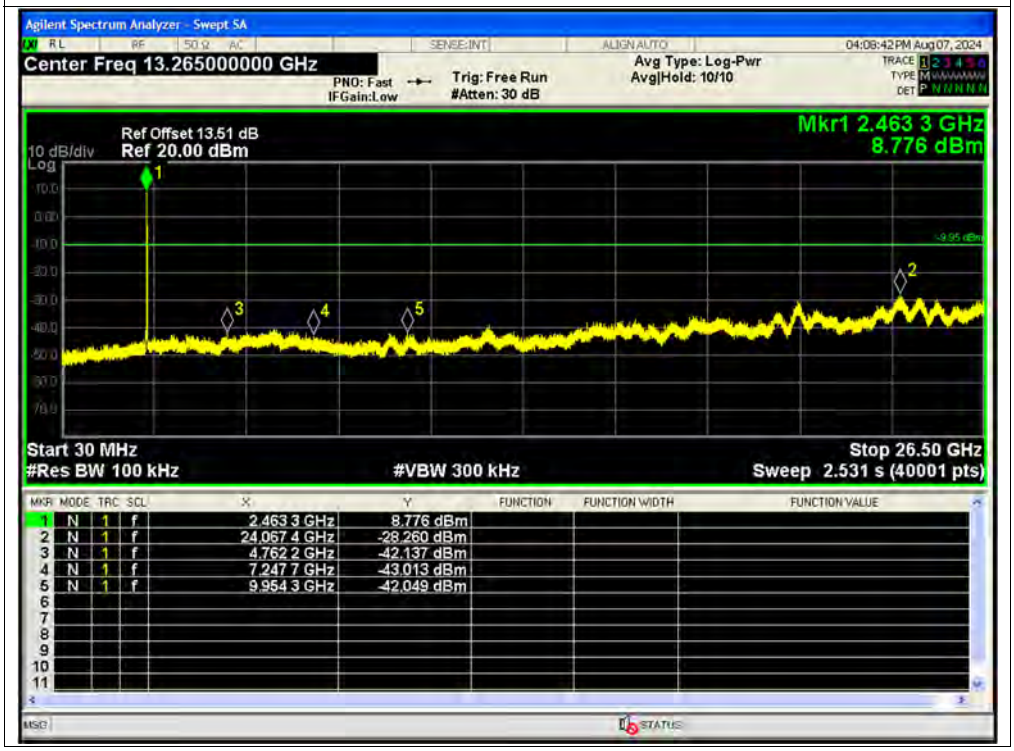
Tx. Spurious NVNT b 2437MHz Ant2 Ref

Tx. Spurious NVNT b 2437MHz Ant2 Emission



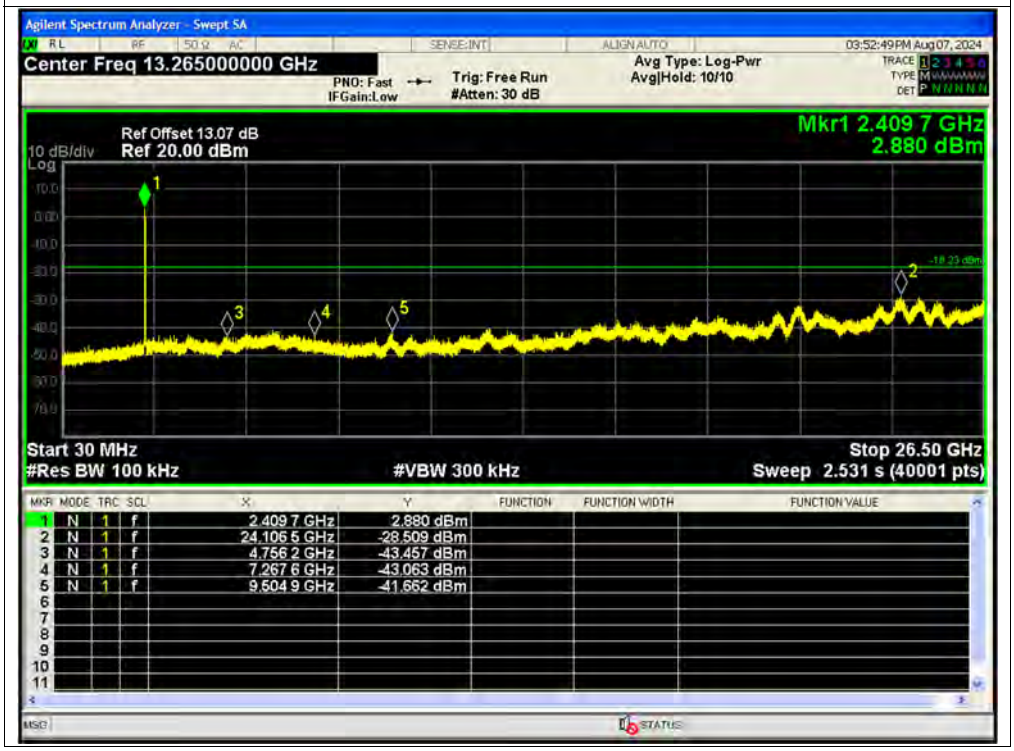
Tx. Spurious NVNT b 2462MHz Ant2 Ref

Tx. Spurious NVNT b 2462MHz Ant2 Emission

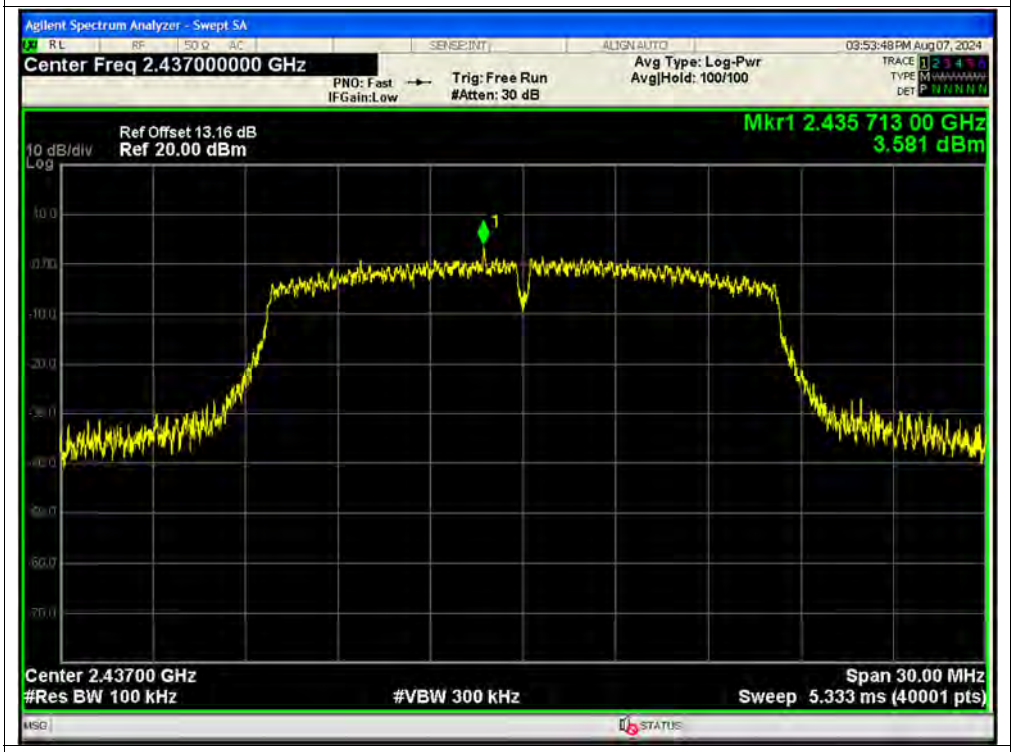


Tx. Spurious NVNT g 2412MHz Ant1 Ref

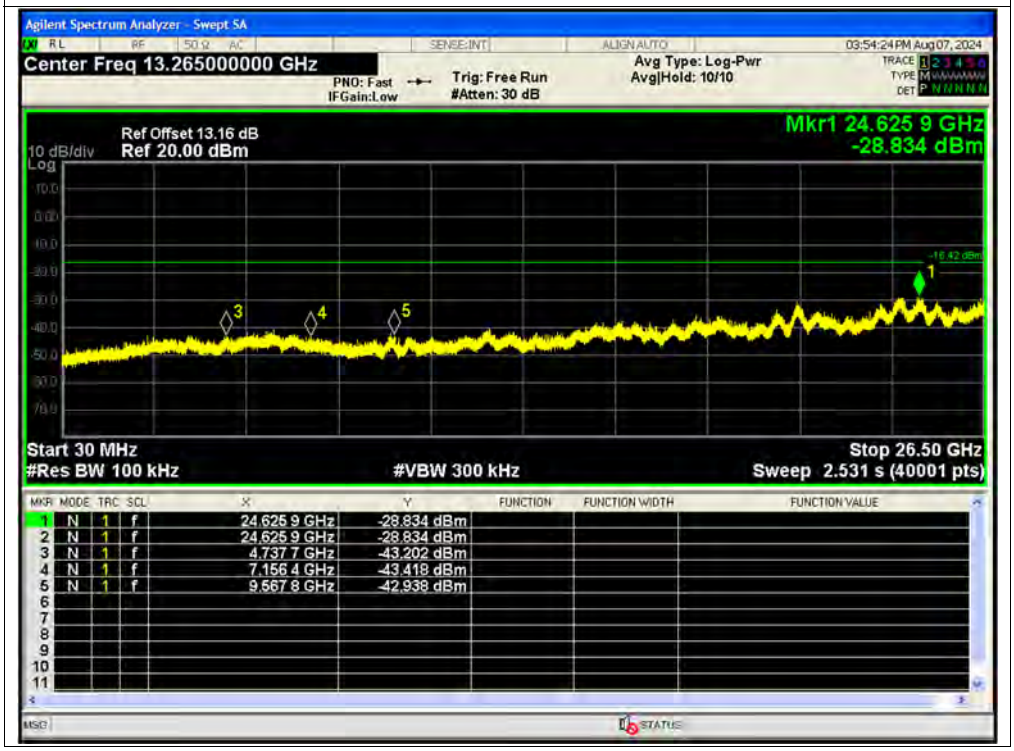
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref

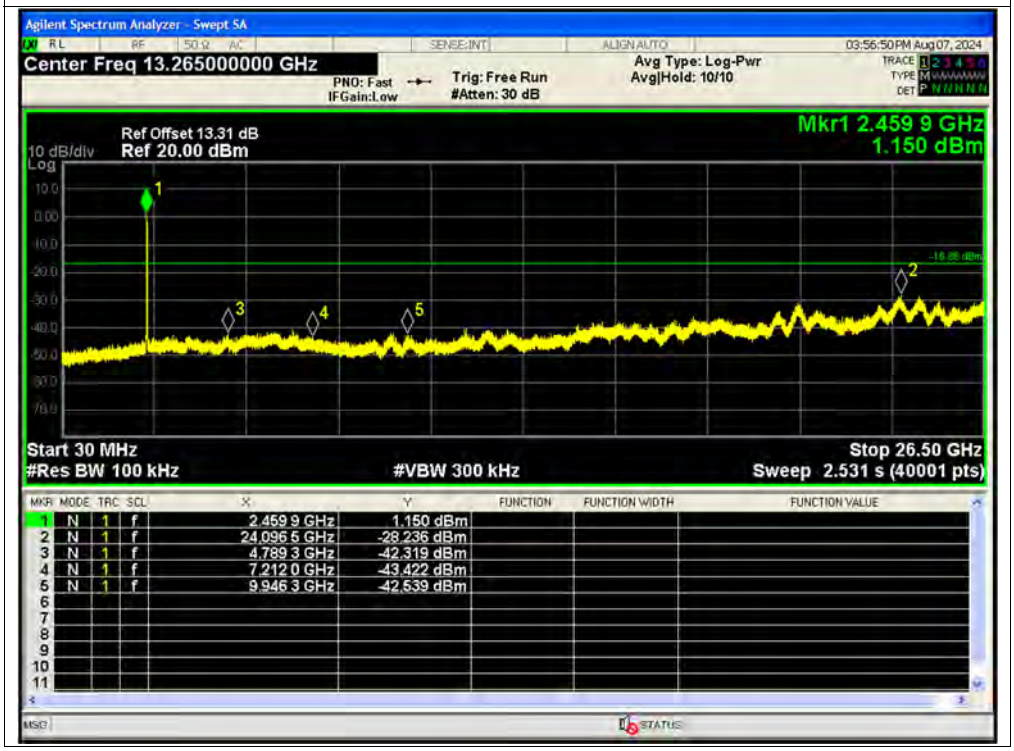


Tx. Spurious NVNT g 2437MHz Ant1 Emission



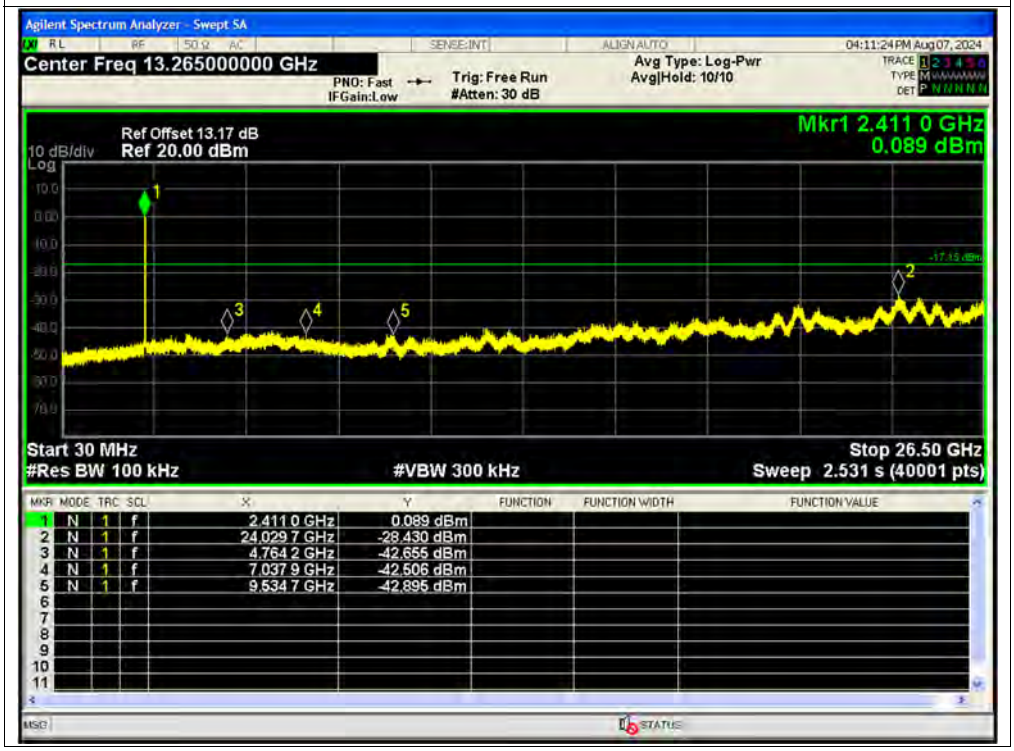
Tx. Spurious NVNT g 2462MHz Ant1 Ref

Tx. Spurious NVNT g 2462MHz Ant1 Emission



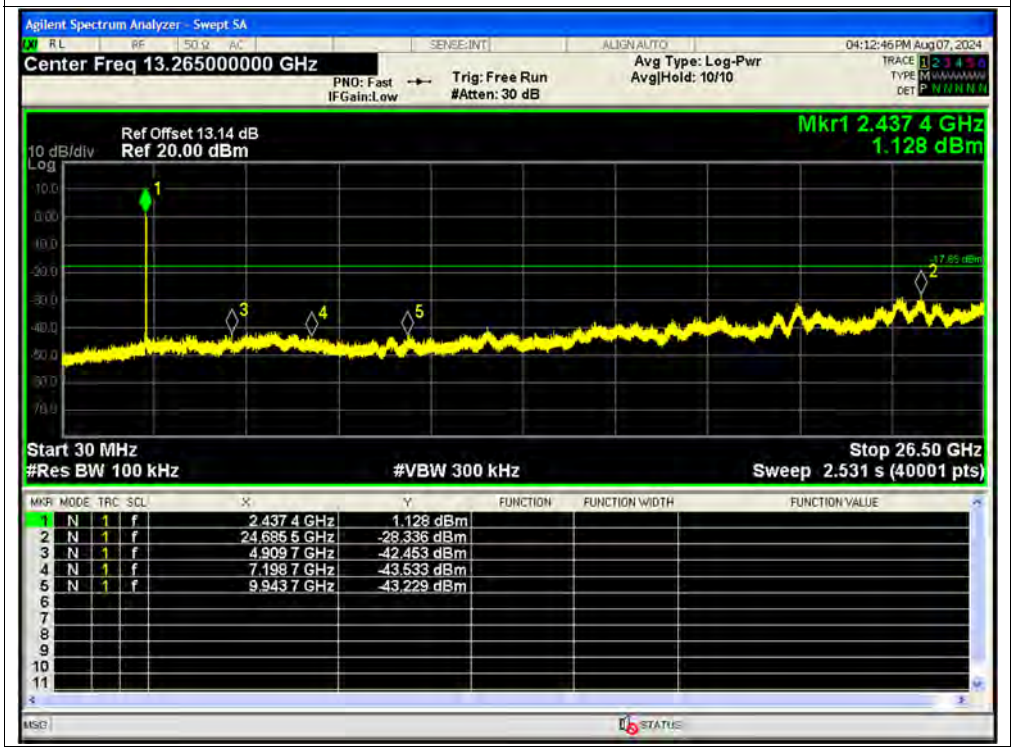
Tx. Spurious NVNT g 2412MHz Ant2 Ref

Tx. Spurious NVNT g 2412MHz Ant2 Emission



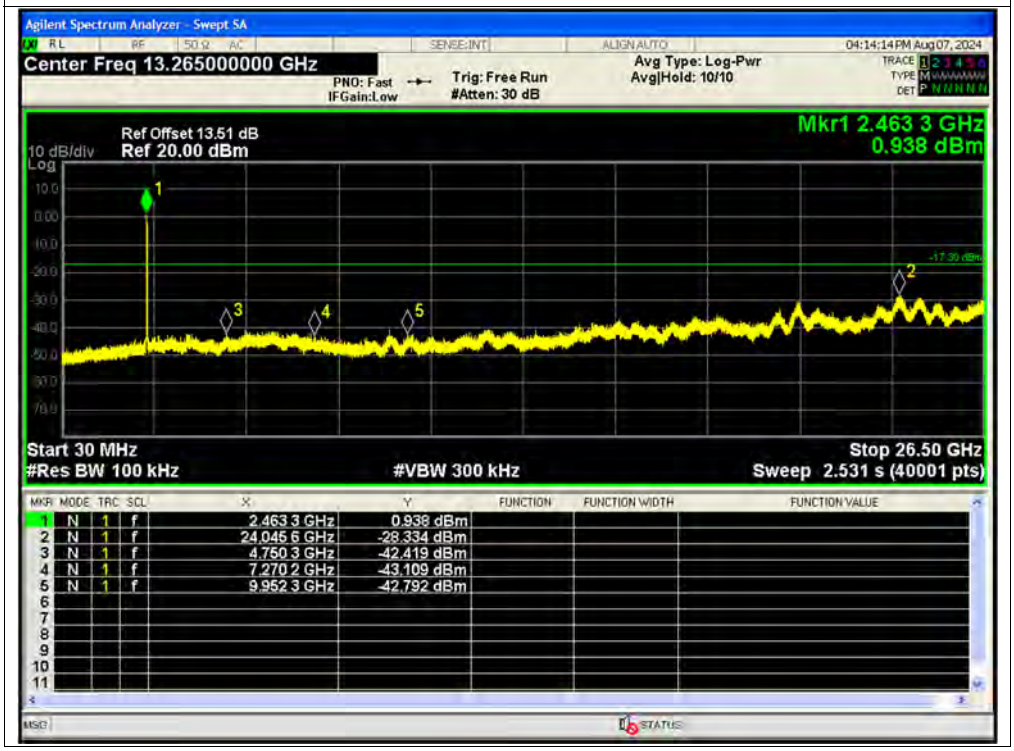
Tx. Spurious NVNT g 2437MHz Ant2 Ref

Tx. Spurious NVNT g 2437MHz Ant2 Emission



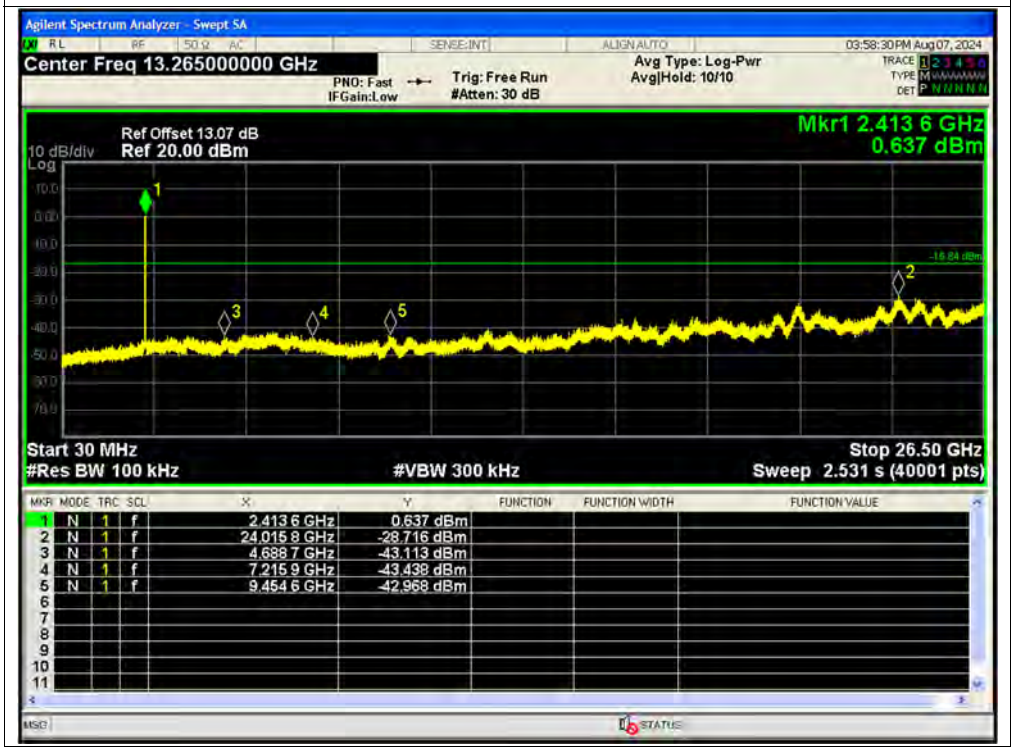
Tx. Spurious NVNT g 2462MHz Ant2 Ref

Tx. Spurious NVNT g 2462MHz Ant2 Emission



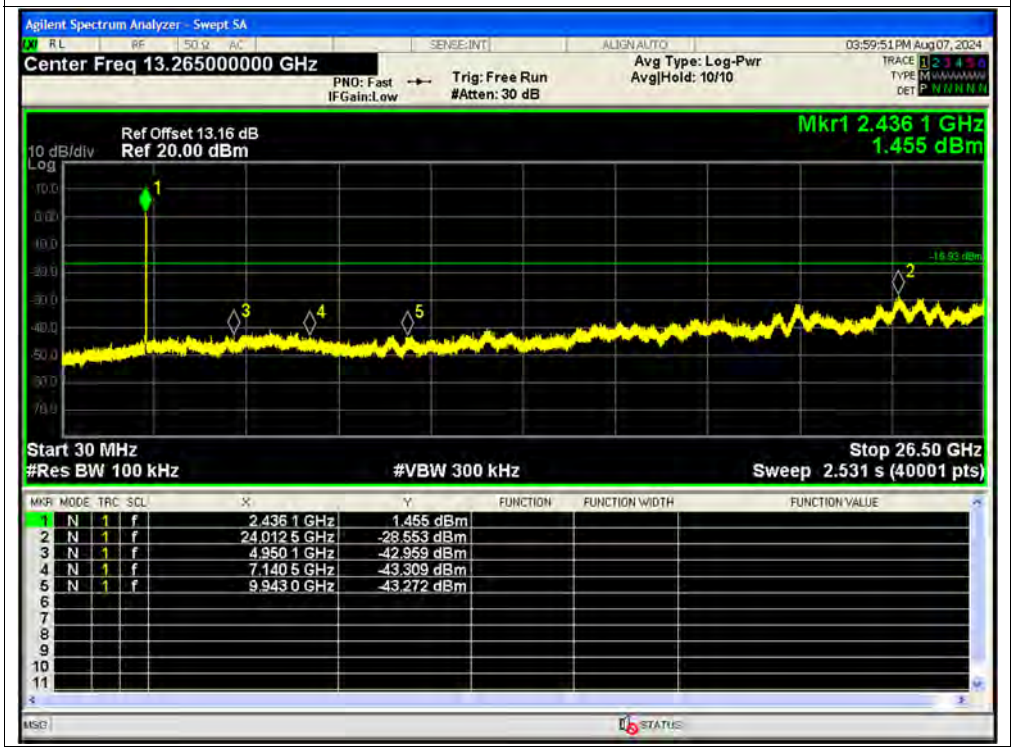
Tx. Spurious NVNT n20 2412MHz Ant1 Ref

Tx. Spurious NVNT n20 2412MHz Ant1 Emission



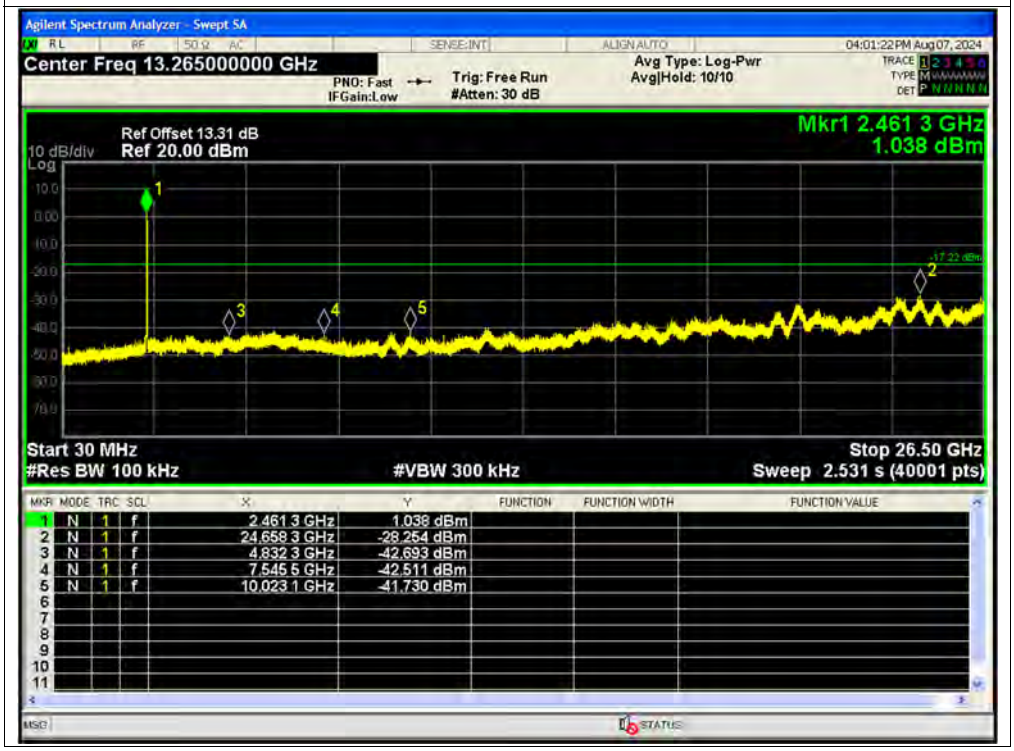
Tx. Spurious NVNT n20 2437MHz Ant1 Ref

Tx. Spurious NVNT n20 2437MHz Ant1 Emission



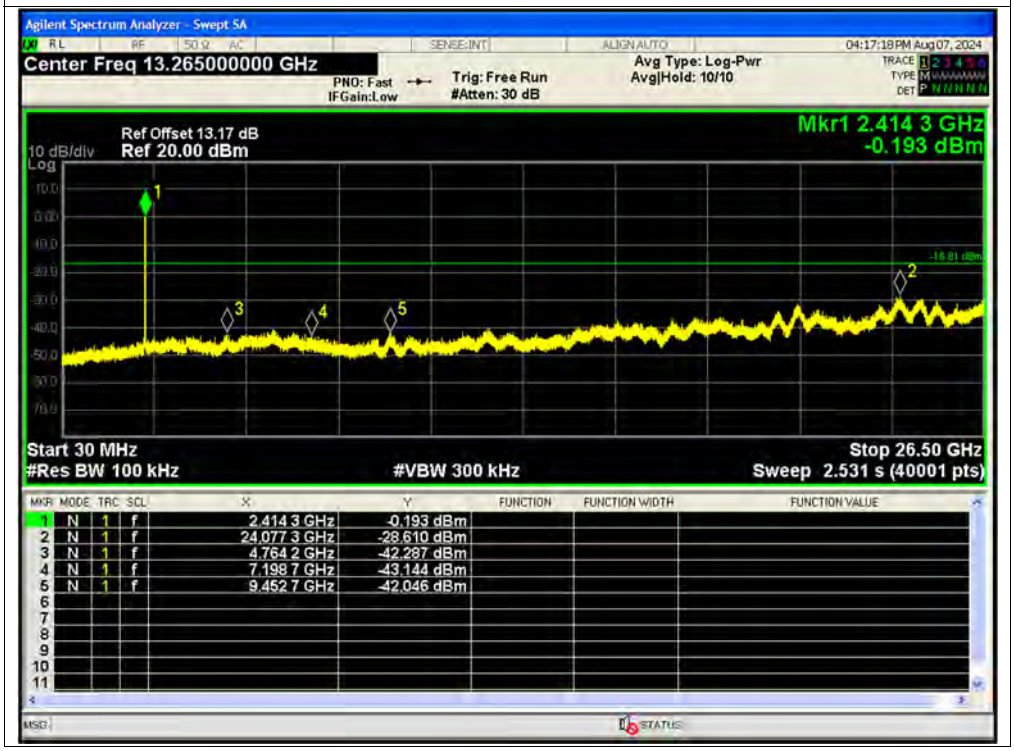
Tx. Spurious NVNT n20 2462MHz Ant1 Ref

Tx. Spurious NVNT n20 2462MHz Ant1 Emission



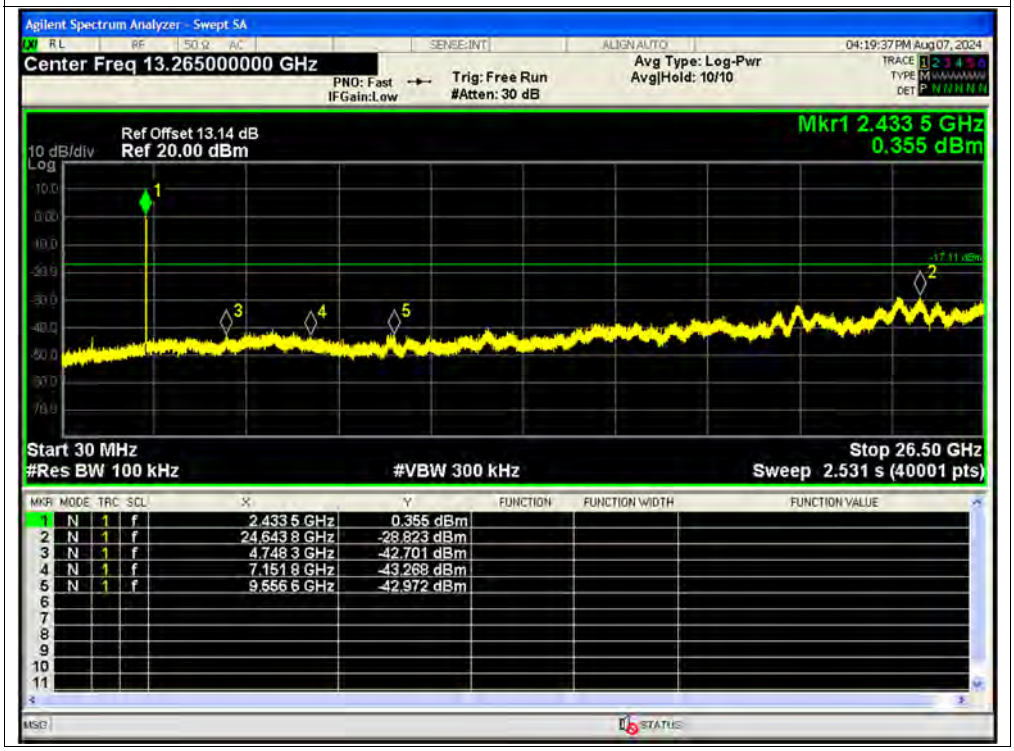
Tx. Spurious NVNT n20 2412MHz Ant2 Ref

Tx. Spurious NVNT n20 2412MHz Ant2 Emission



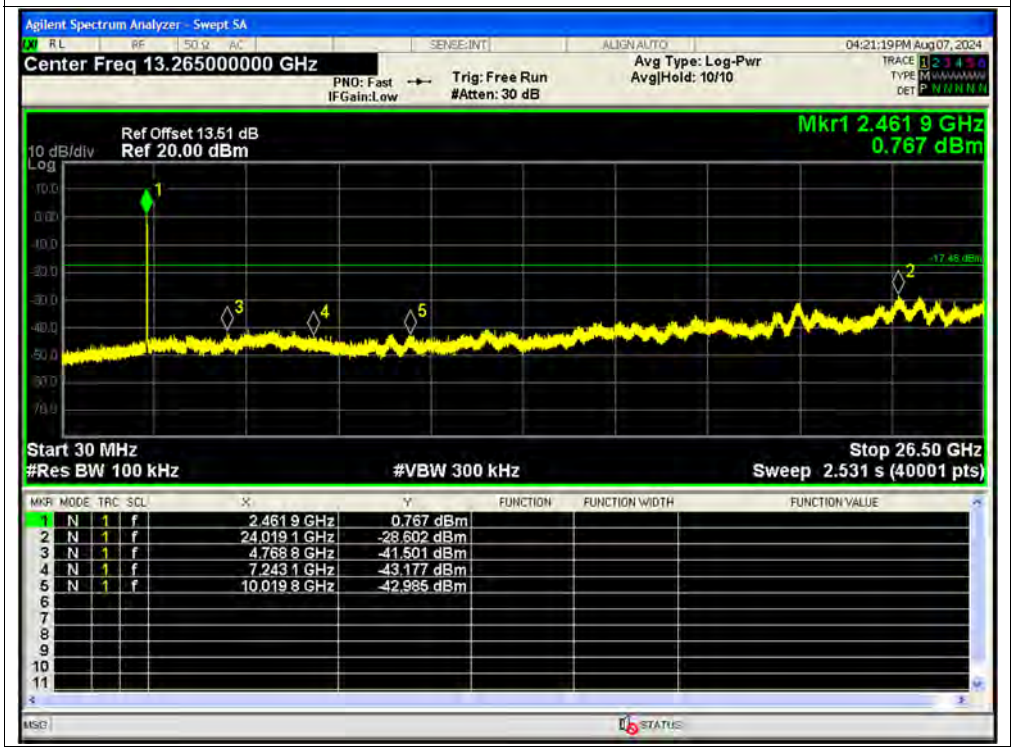
Tx. Spurious NVNT n20 2437MHz Ant2 Ref

Tx. Spurious NVNT n20 2437MHz Ant2 Emission



Tx. Spurious NVNT n20 2462MHz Ant2 Ref

Tx. Spurious NVNT n20 2462MHz Ant2 Emission



A.6. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-34.91	-20	Pass
NVNT	b	2462	Ant1	-49.18	-20	Pass
NVNT	b	2412	Ant2	-36.62	-20	Pass
NVNT	b	2462	Ant2	-48.73	-20	Pass
NVNT	g	2412	Ant1	-31.45	-20	Pass
NVNT	g	2462	Ant1	-44.2	-20	Pass
NVNT	g	2412	Ant2	-36.99	-20	Pass
NVNT	g	2462	Ant2	-43.17	-20	Pass
NVNT	n20	2412	Ant1	-33.91	-20	Pass
NVNT	n20	2462	Ant1	-44.46	-20	Pass
NVNT	n20	2412	Ant2	-34.89	-20	Pass
NVNT	n20	2462	Ant2	-46.05	-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

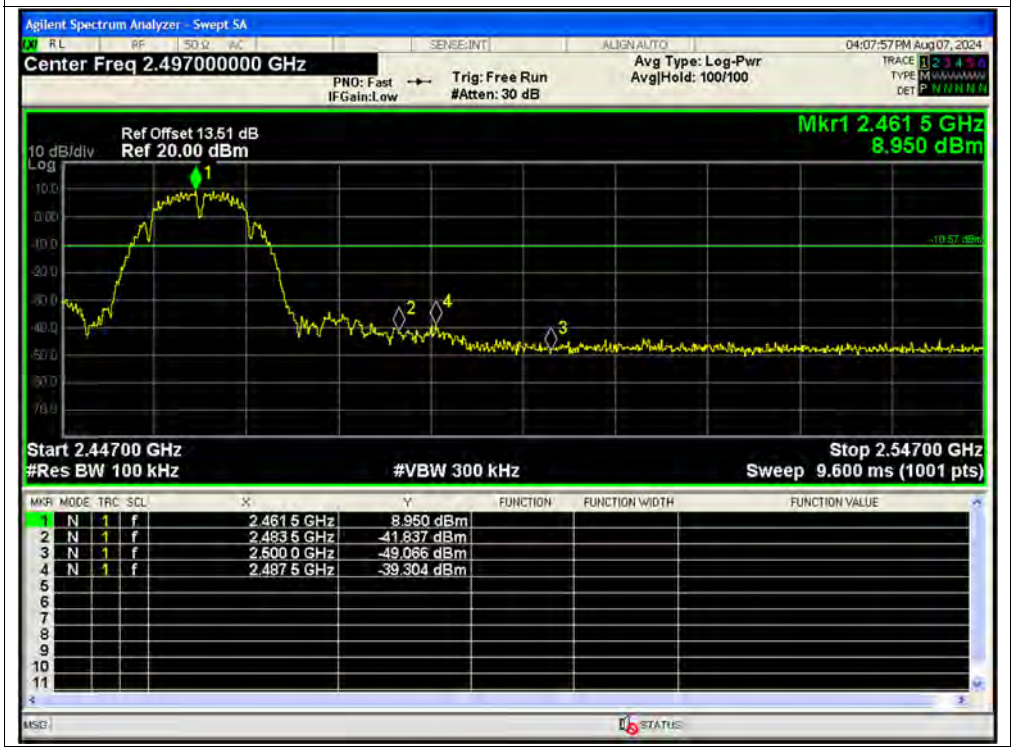
Band Edge NVNT b 2462MHz Ant1 Emission

Band Edge NVNT b 2412MHz Ant2 Ref

Band Edge NVNT b 2412MHz Ant2 Emission

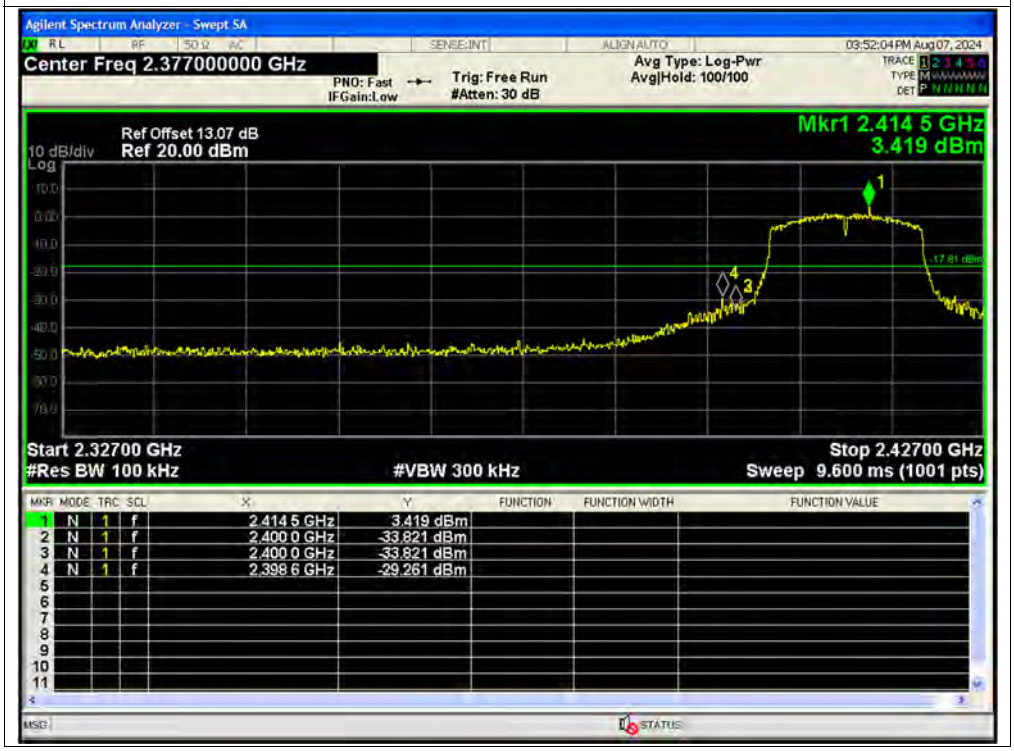
Band Edge NVNT b 2462MHz Ant2 Ref

Band Edge NVNT b 2462MHz Ant2 Emission



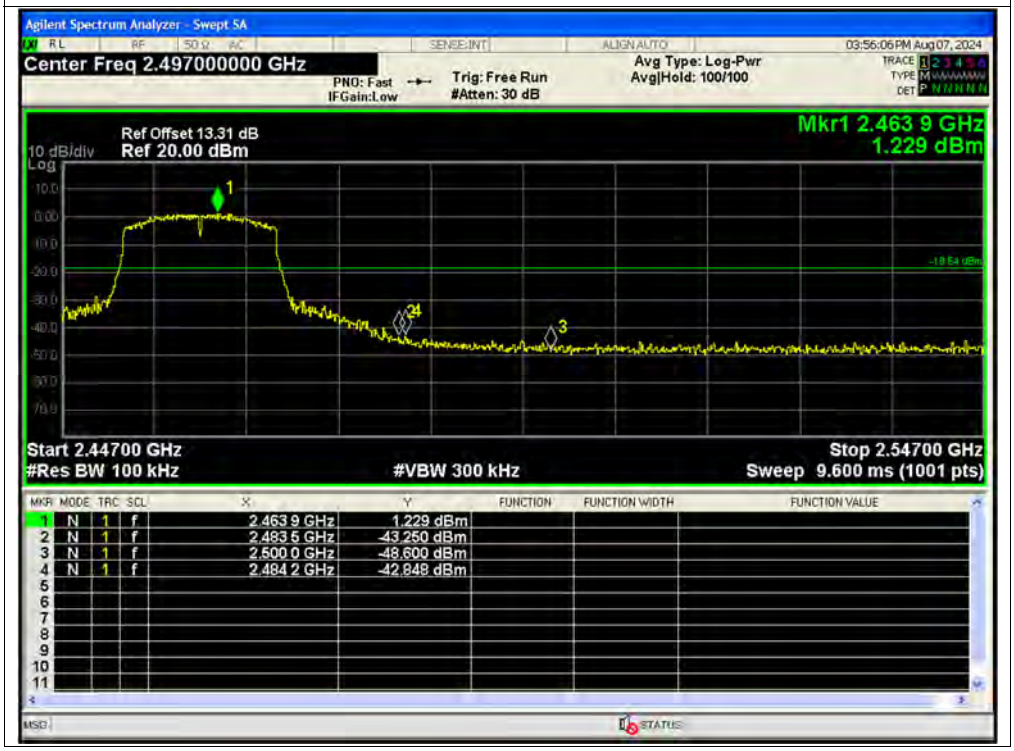
Band Edge NVNT g 2412MHz Ant1 Ref

Band Edge NVNT g 2412MHz Ant1 Emission



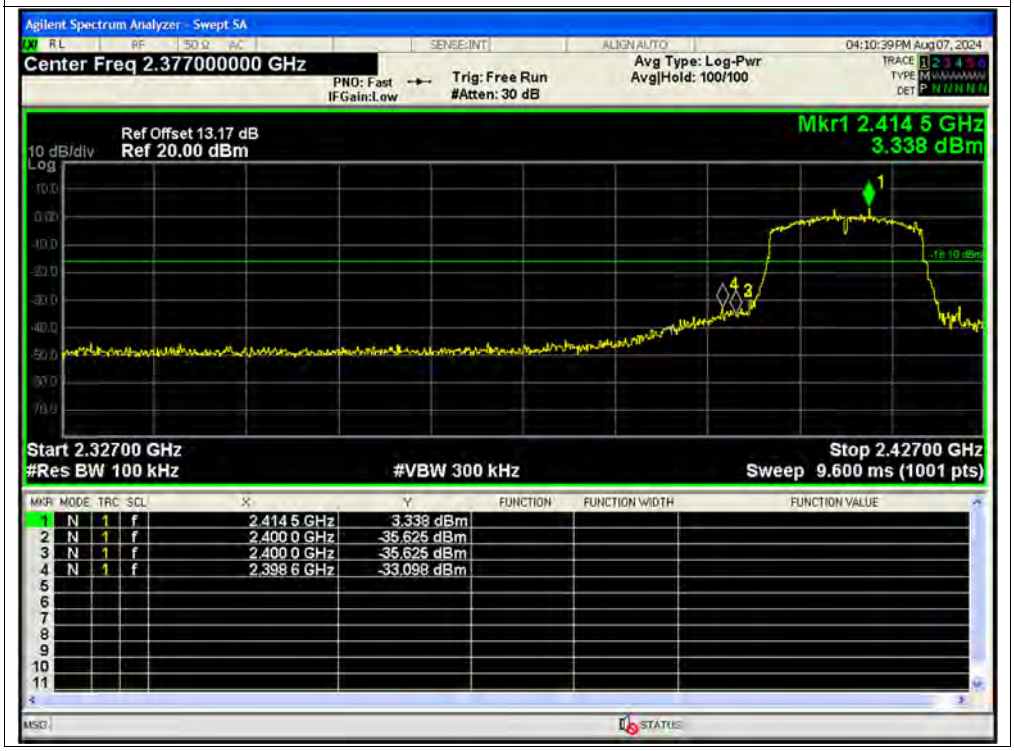
Band Edge NVNT g 2462MHz Ant1 Ref

Band Edge NVNT g 2462MHz Ant1 Emission



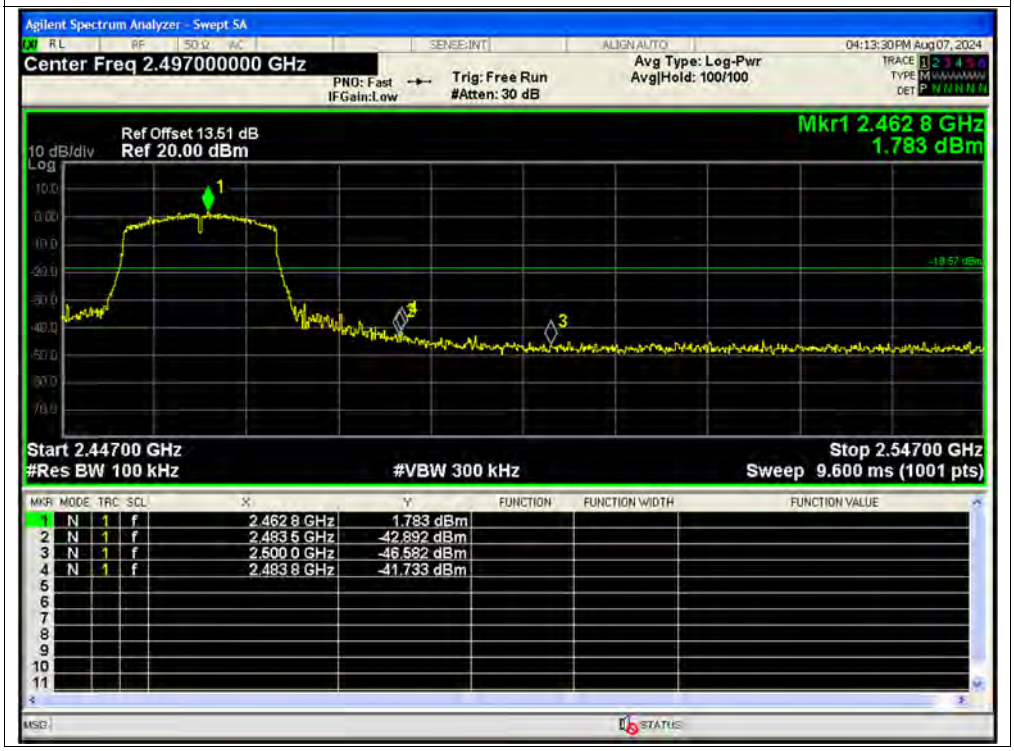
Band Edge NVNT g 2412MHz Ant2 Ref

Band Edge NVNT g 2412MHz Ant2 Emission

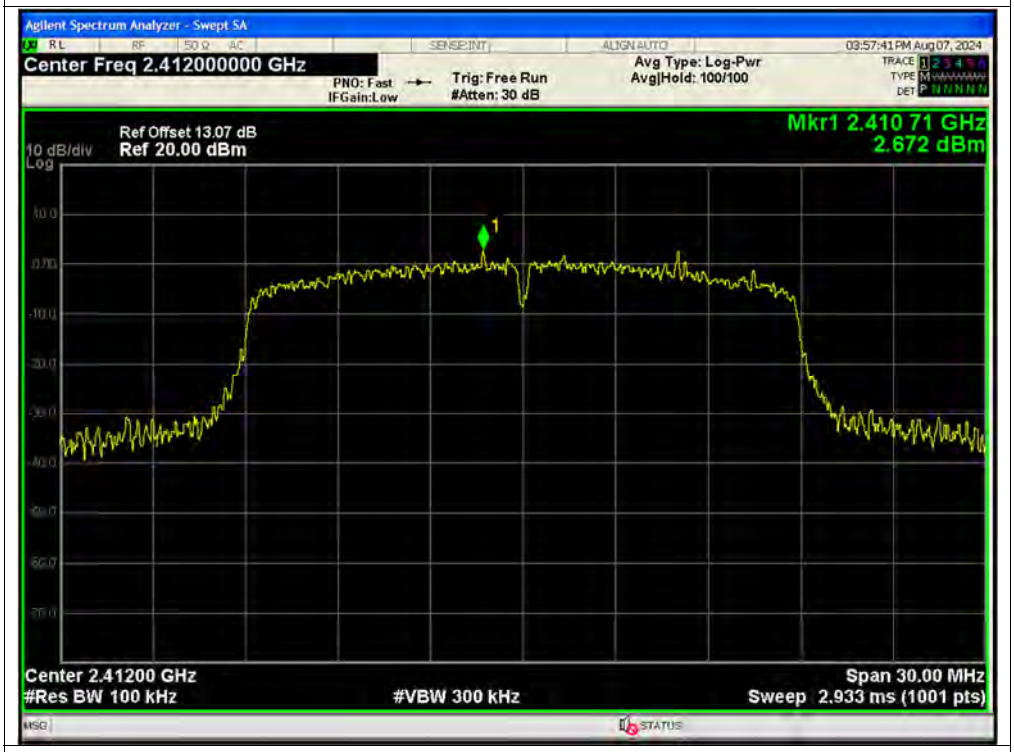


Band Edge NVNT g 2462MHz Ant2 Ref

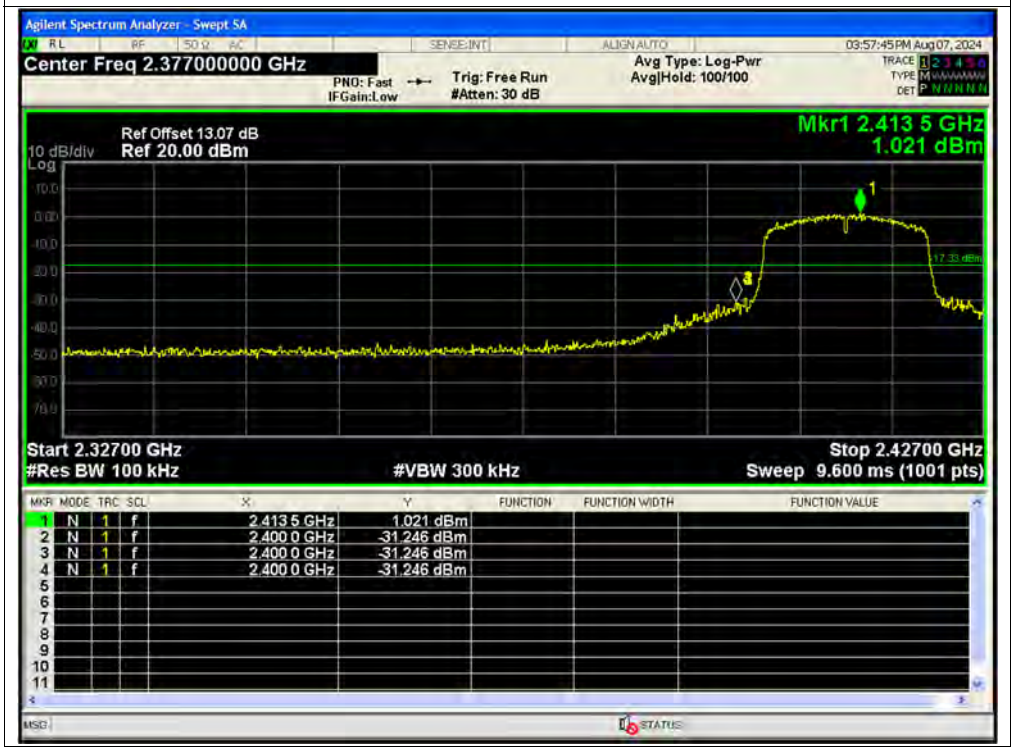
Band Edge NVNT g 2462MHz Ant2 Emission



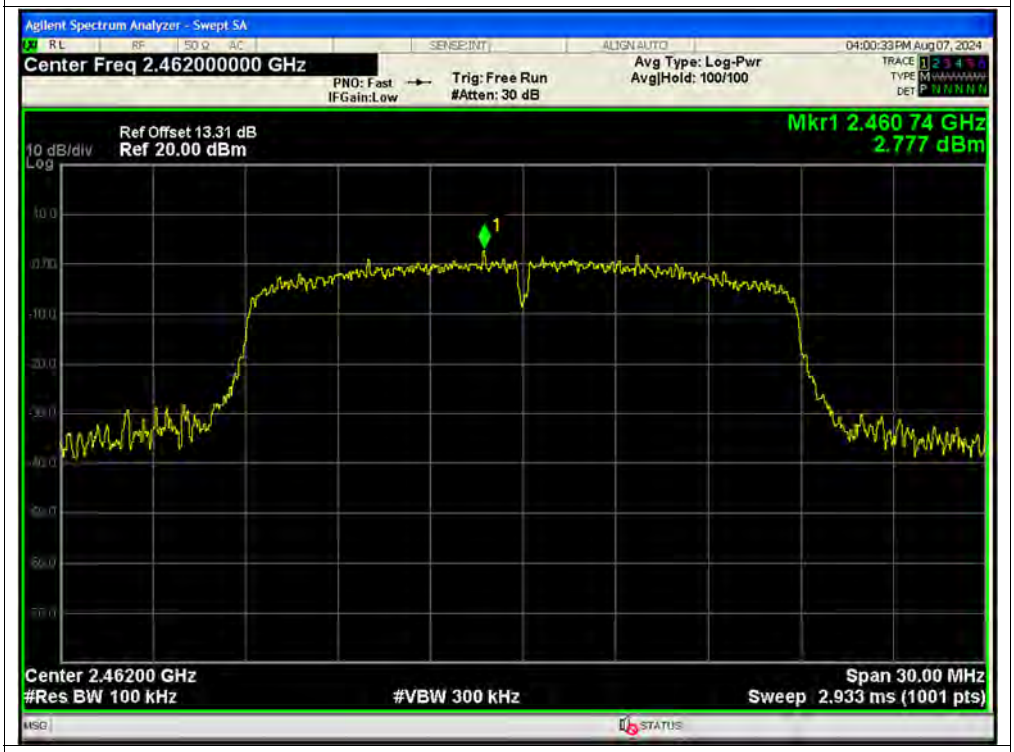
Band Edge NVNT n20 2412MHz Ant1 Ref



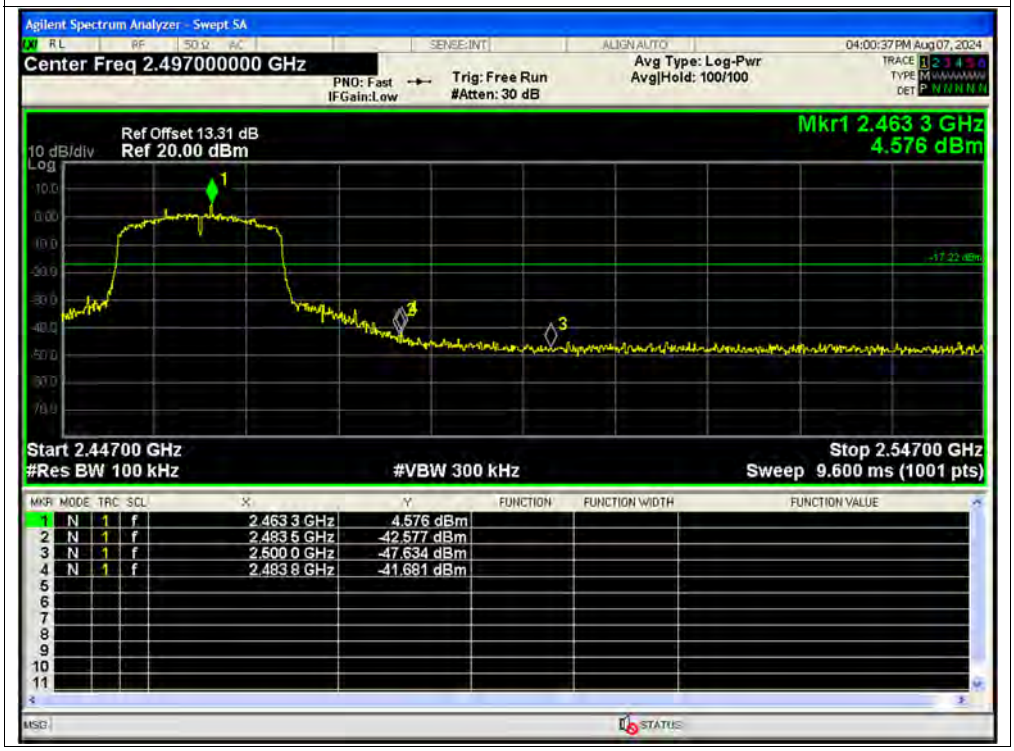
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref

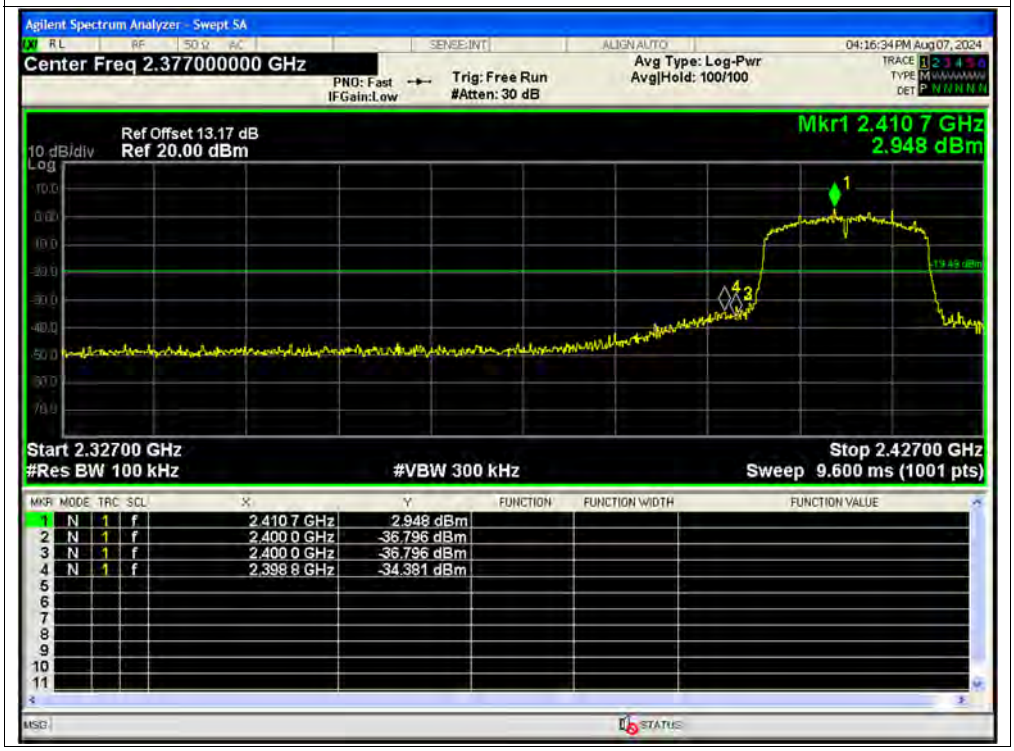


Band Edge NVNT n20 2462MHz Ant1 Emission

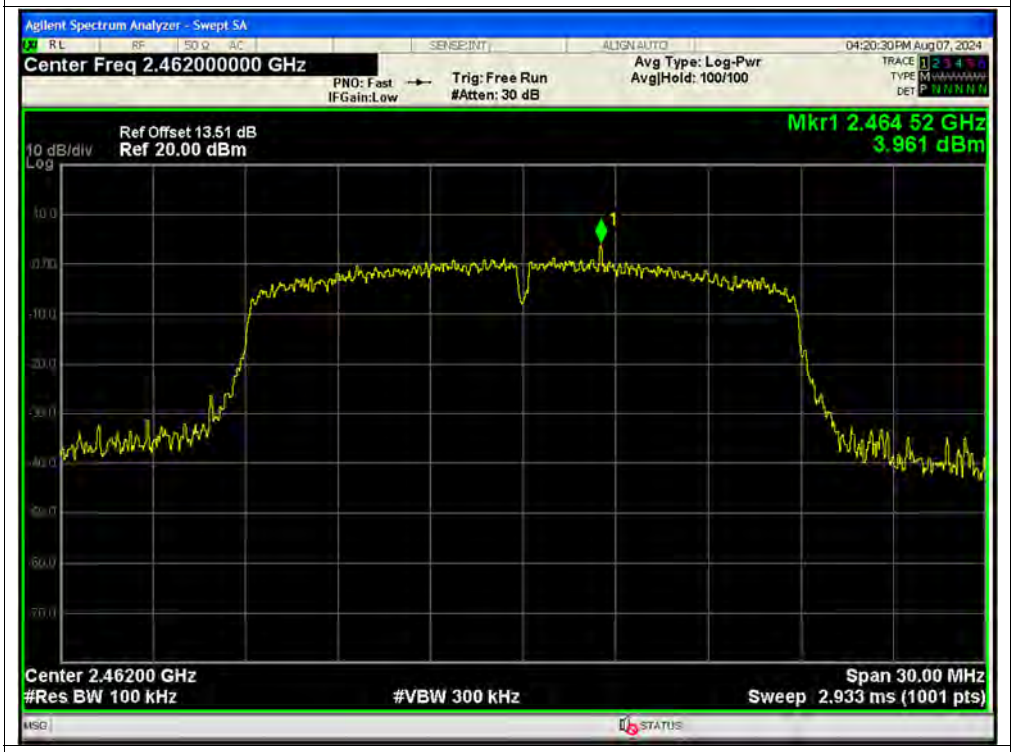


Band Edge NVNT n20 2412MHz Ant2 Ref

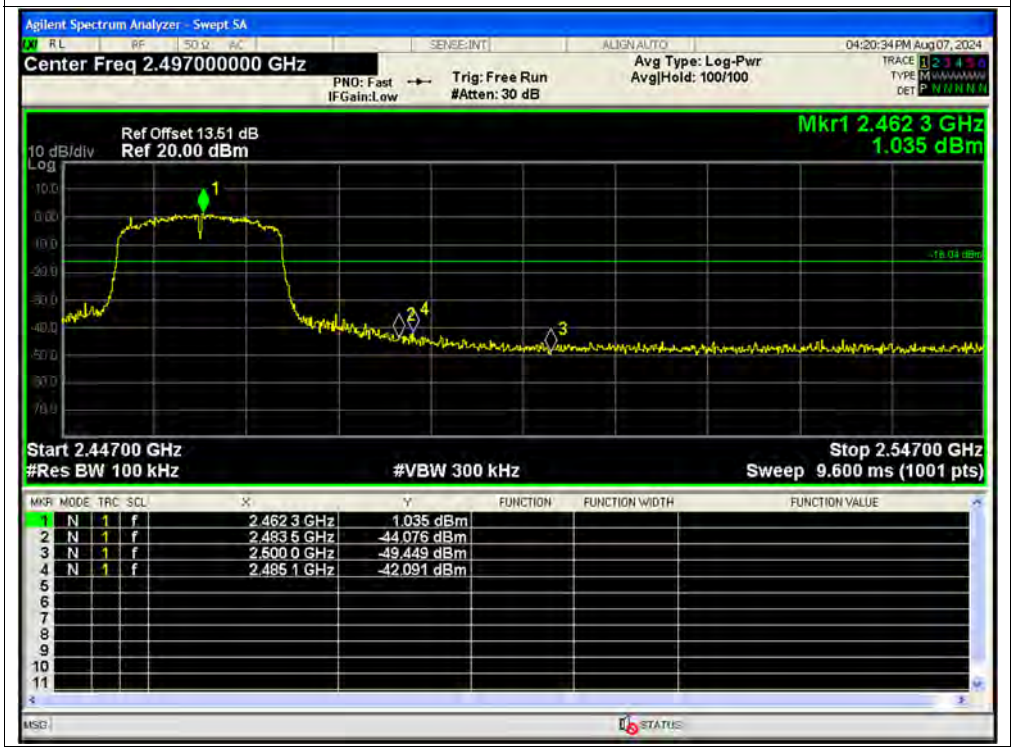
Band Edge NVNT n20 2412MHz Ant2 Emission



Band Edge NVNT n20 2462MHz Ant2 Ref



Band Edge NVNT n20 2462MHz Ant2 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	1.12	0	1.12	8	Pass
NVNT	b	2437	Ant1	-0.89	0	-0.89	8	Pass
NVNT	b	2462	Ant1	-1.32	0	-1.32	8	Pass
NVNT	b	2412	Ant2	-1.1	0	-1.1	8	Pass
NVNT	b	2437	Ant2	-1.2	0	-1.2	8	Pass
NVNT	b	2462	Ant2	-0.44	0	-0.44	8	Pass
NVNT	g	2412	Ant1	-10.49	0	-10.49	8	Pass
NVNT	g	2437	Ant1	-10.55	0	-10.55	8	Pass
NVNT	g	2462	Ant1	-10.82	0	-10.82	8	Pass
NVNT	g	2412	Ant2	-11.12	0	-11.12	8	Pass
NVNT	g	2437	Ant2	-10.77	0	-10.77	8	Pass
NVNT	g	2462	Ant2	-10.56	0	-10.56	8	Pass
NVNT	n20	2412	Ant1	-10.87	0	-10.87	8	Pass
NVNT	n20	2437	Ant1	-10.94	0	-10.94	8	Pass
NVNT	n20	2462	Ant1	-10.67	0	-10.67	8	Pass
NVNT	n20	2412	Ant2	-11.84	0	-11.84	8	Pass
NVNT	n20	2437	Ant2	-11.66	0	-11.66	8	Pass
NVNT	n20	2462	Ant2	-10.61	0	-10.61	8	Pass

Test Graphs
PSD NVNT b 2412MHz Ant1

PSD NVNT b 2437MHz Ant1

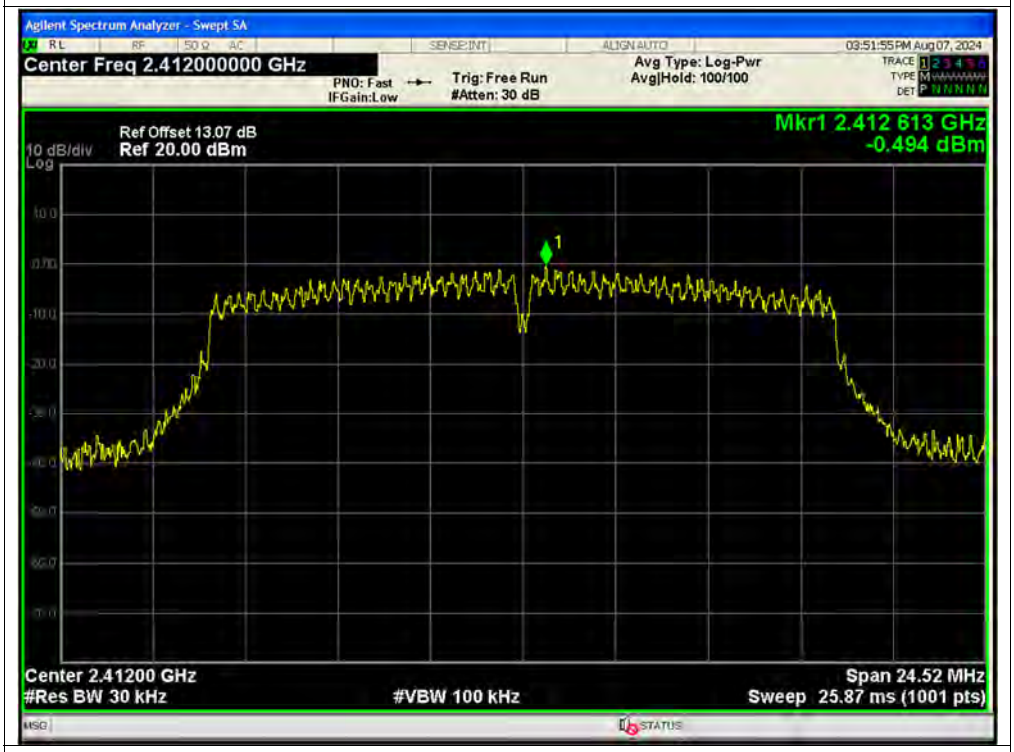
PSD NVNT b 2462MHz Ant1

PSD NVNT b 2412MHz Ant2

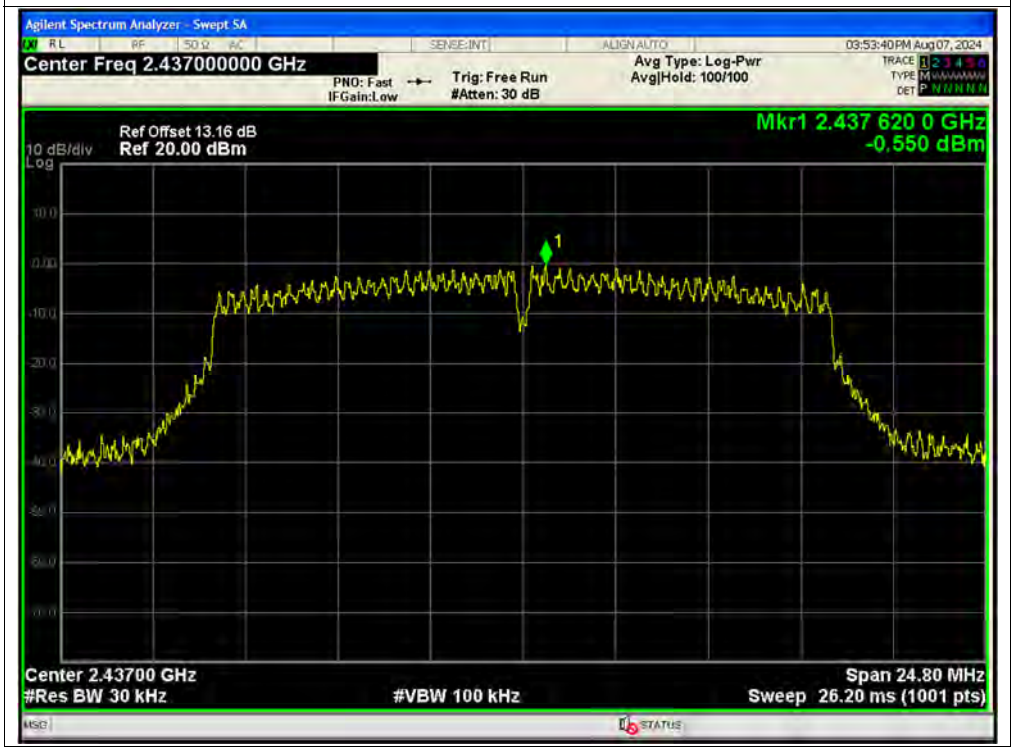
PSD NVNT b 2437MHz Ant2

PSD NVNT b 2462MHz Ant2

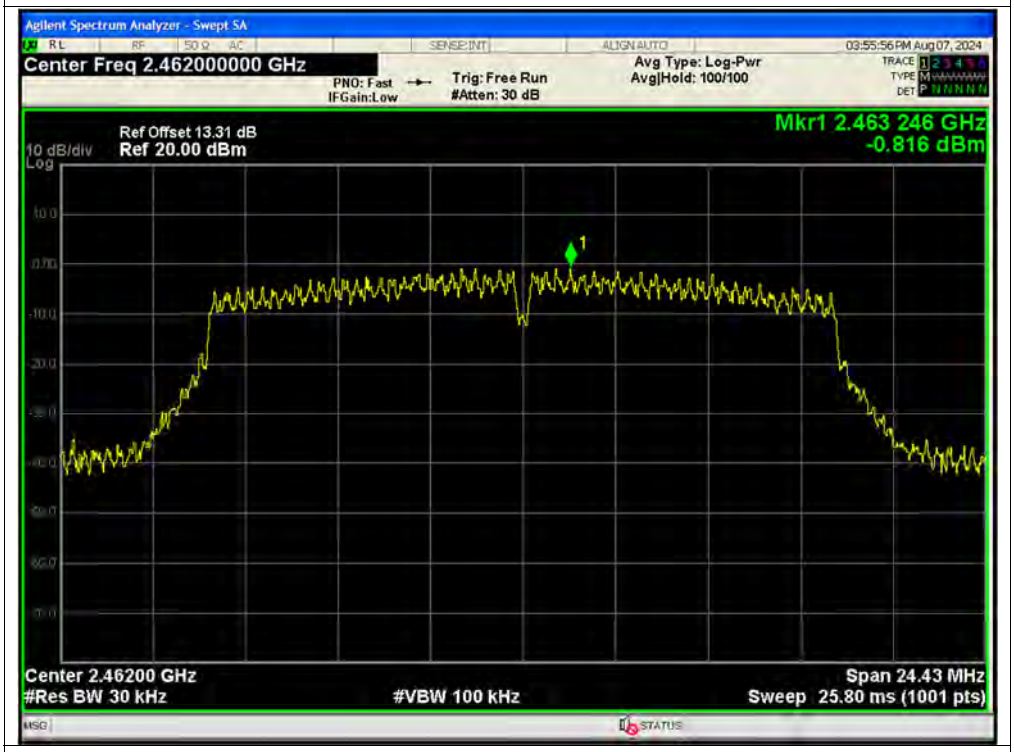
PSD NVNT g 2412MHz Ant1



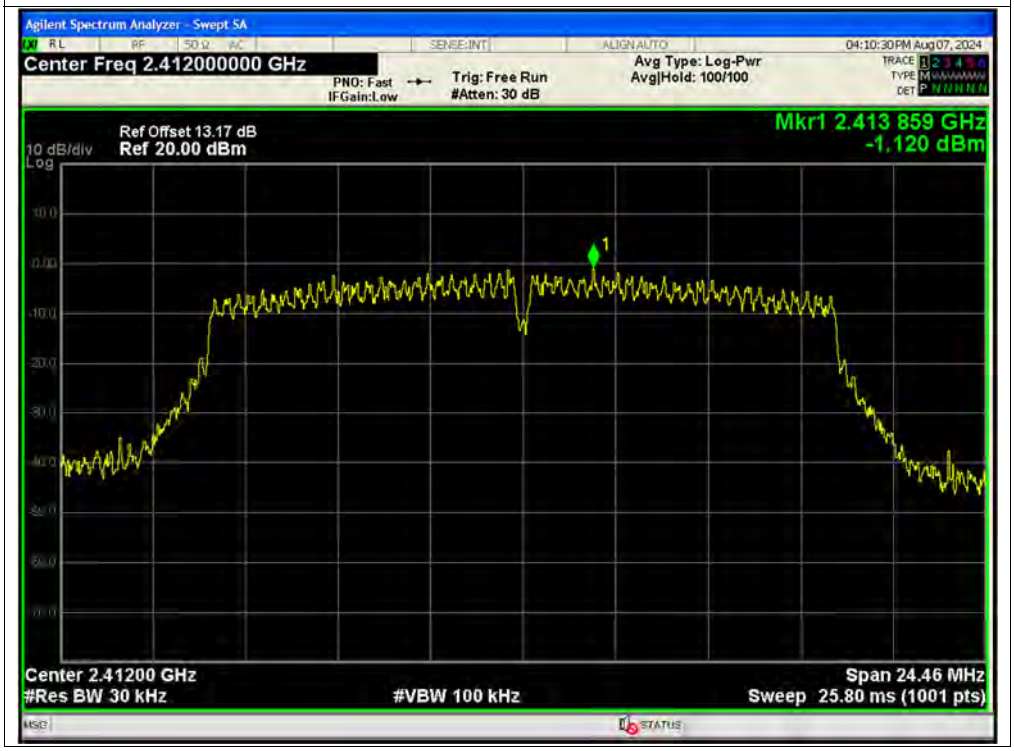
PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1



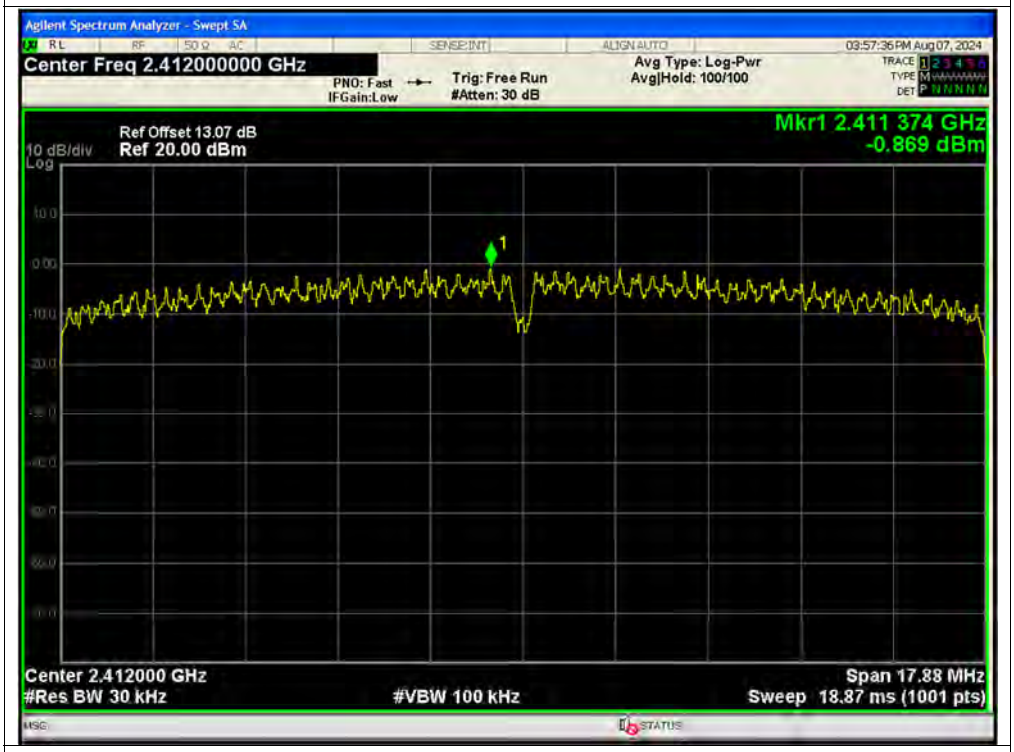
PSD NVNT g 2412MHz Ant2



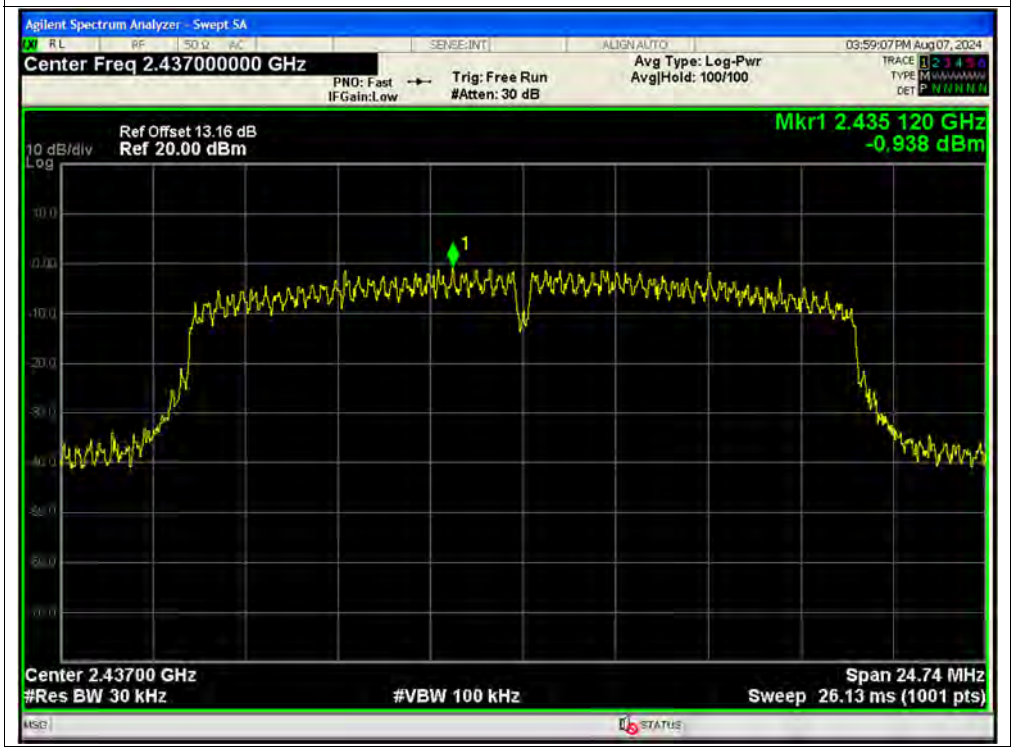
PSD NVNT g 2437MHz Ant2

PSD NVNT g 2462MHz Ant2

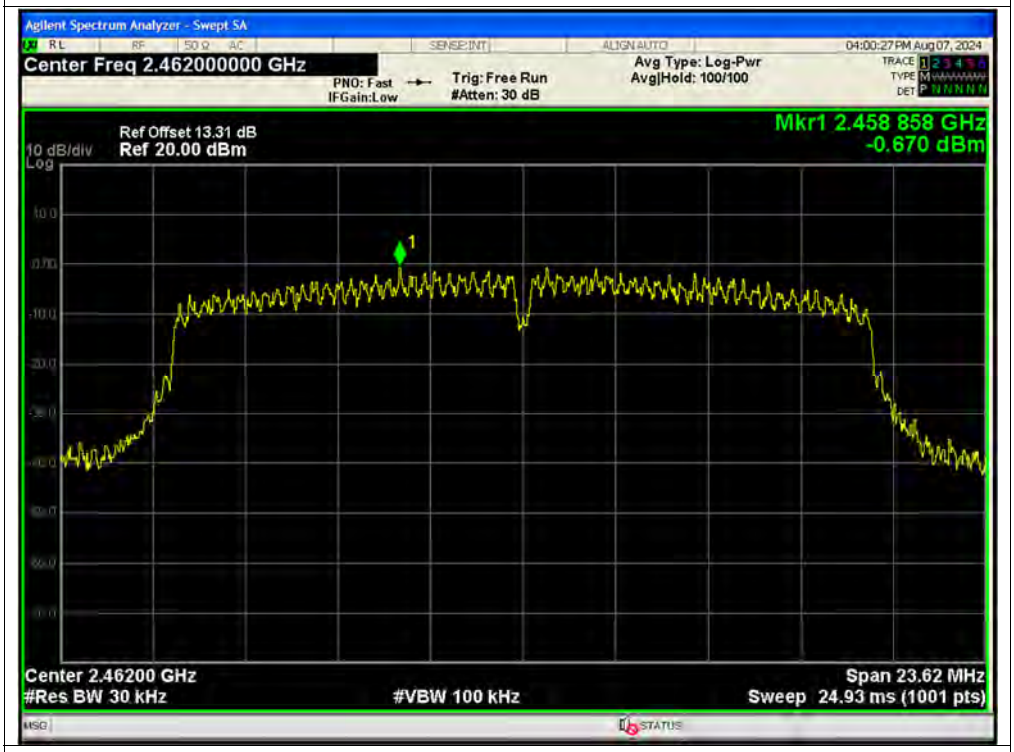
PSD NVNT n20 2412MHz Ant1



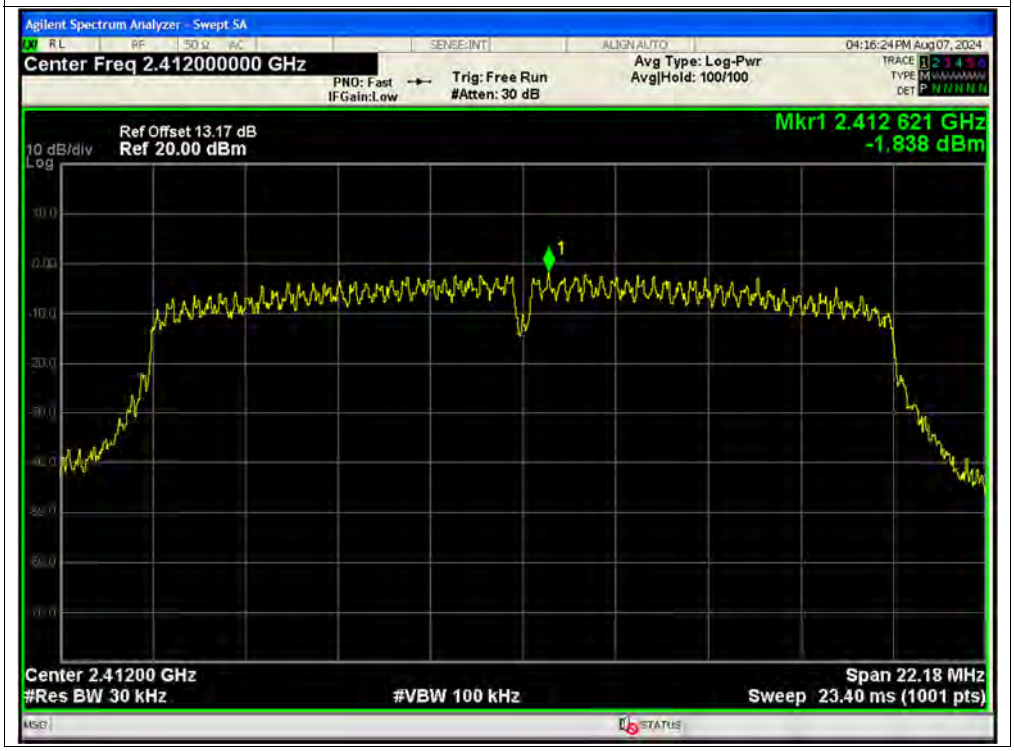
PSD NVNT n20 2437MHz Ant1



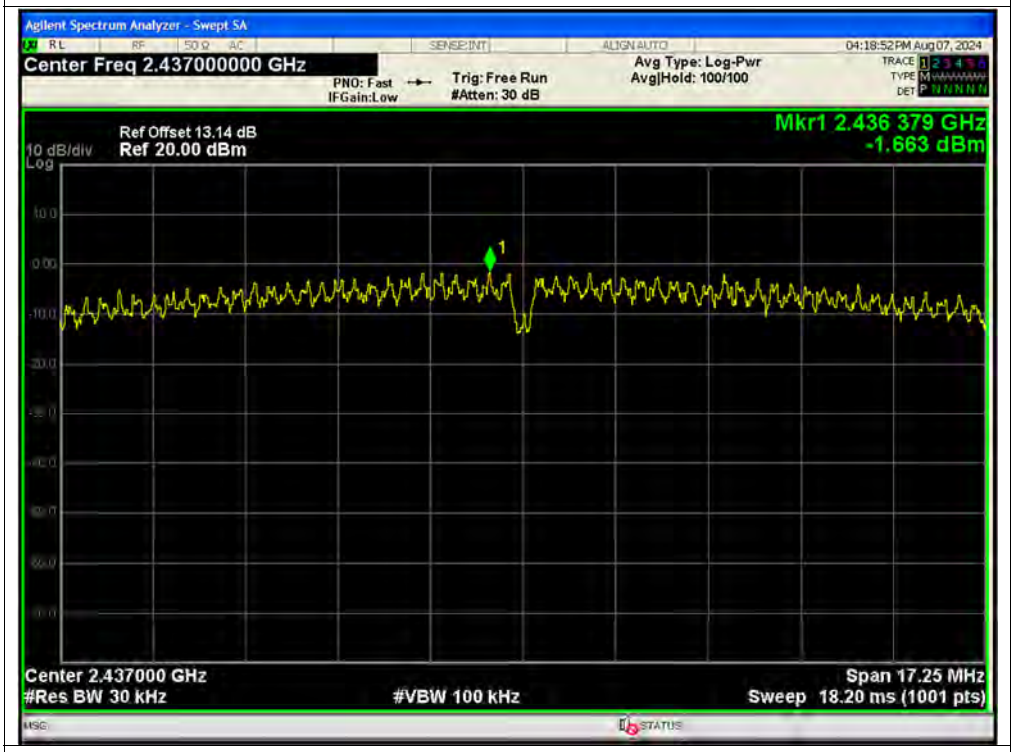
PSD NVNT n20 2462MHz Ant1



PSD NVNT n20 2412MHz Ant2



PSD NVNT n20 2437MHz Ant2



PSD NVNT n20 2462MHz Ant2

A.8. Conducted Emission

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT + Adapter + Data line + PC + PC Adapter + WIFI TX

Test voltage: AC 120V/60Hz

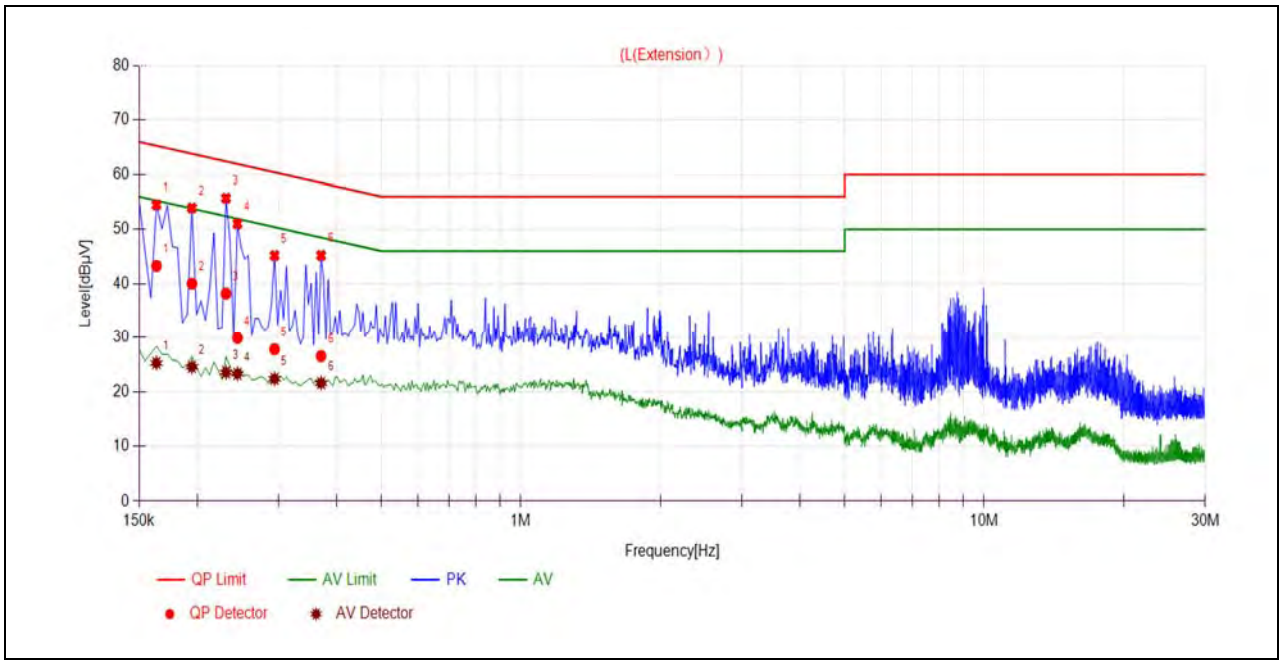
The measurement results are obtained as below:

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

U_R: Receiver Reading

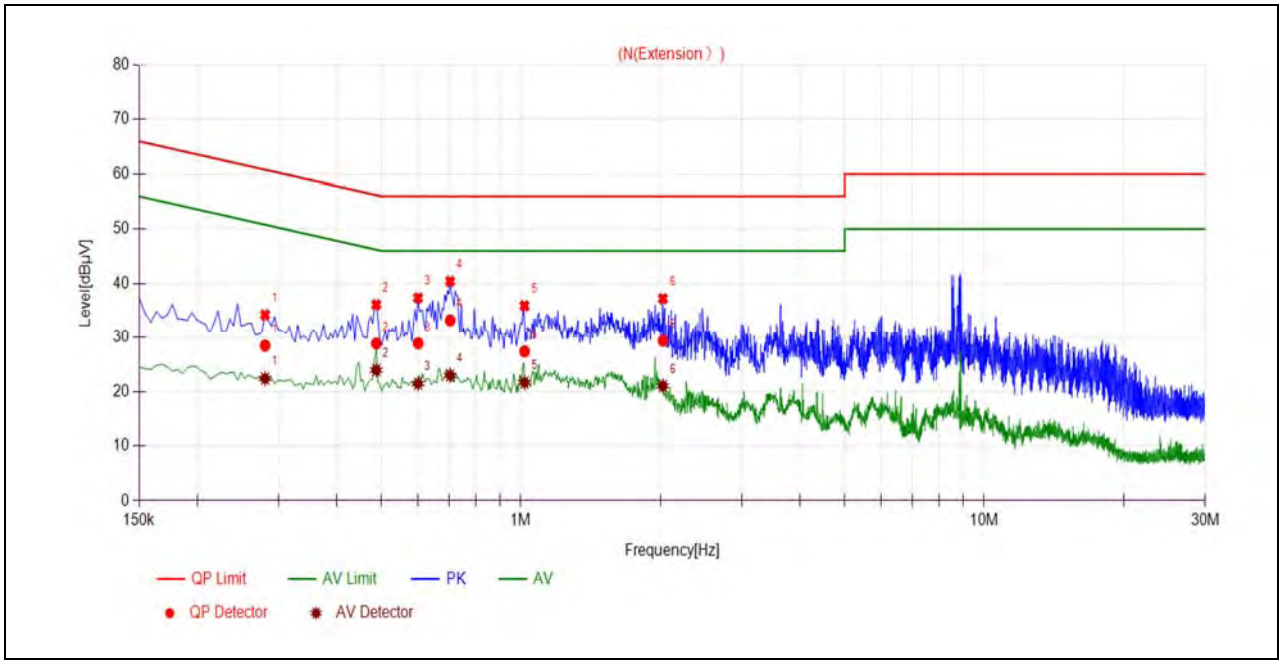
A_{Factor}: Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1635	43.28	25.24	65.28	55.28	Line	PASS
2	0.1950	40.00	24.54	63.82	53.82		PASS
3	0.2310	38.18	23.54	62.41	52.41		PASS
4	0.2445	29.88	23.26	61.94	51.94		PASS
5	0.2940	27.80	22.36	60.41	50.41		PASS
6	0.3705	26.52	21.56	58.49	48.49		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.2805	28.46	22.38	60.80	50.80	Neutral	PASS
2	0.4875	28.85	23.95	56.21	46.21		PASS
3	0.6001	28.89	21.44	56.00	46.00		PASS
4	0.7036	33.23	22.97	56.00	46.00		PASS
5	1.0185	27.38	21.64	56.00	46.00		PASS
6	2.0263	29.36	21.02	56.00	46.00		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 [dBμV/m] =U_R + A_T + A_{Factor} [dB]; A_T =$L_{Cable\ loss}$ [dB]-G_{preamp} [dB]
A_T: Total correction Factor except Antenna
U_R: Receiver Reading
G_{preamp}: Preamplifier Gain
A_{Factor}: Antenna Factor at 3m
Note 1: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (Horizontal) was recorded in this test report.
Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

ANT 1

802.11b 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						
1	2389.04	PK	24.10	6.74	27.20	58.04	74	PASS
1	2390.00	AV	17.45	6.74	27.20	51.39	54	PASS
11	2483.50	PK	26.58	6.74	27.20	60.52	74	PASS
11	2483.50	AV	19.87	6.74	27.20	53.81	54	PASS

(PEAK, Channel 1, 802.11b)

(AVERAGE, Channel 1, 802.11b)

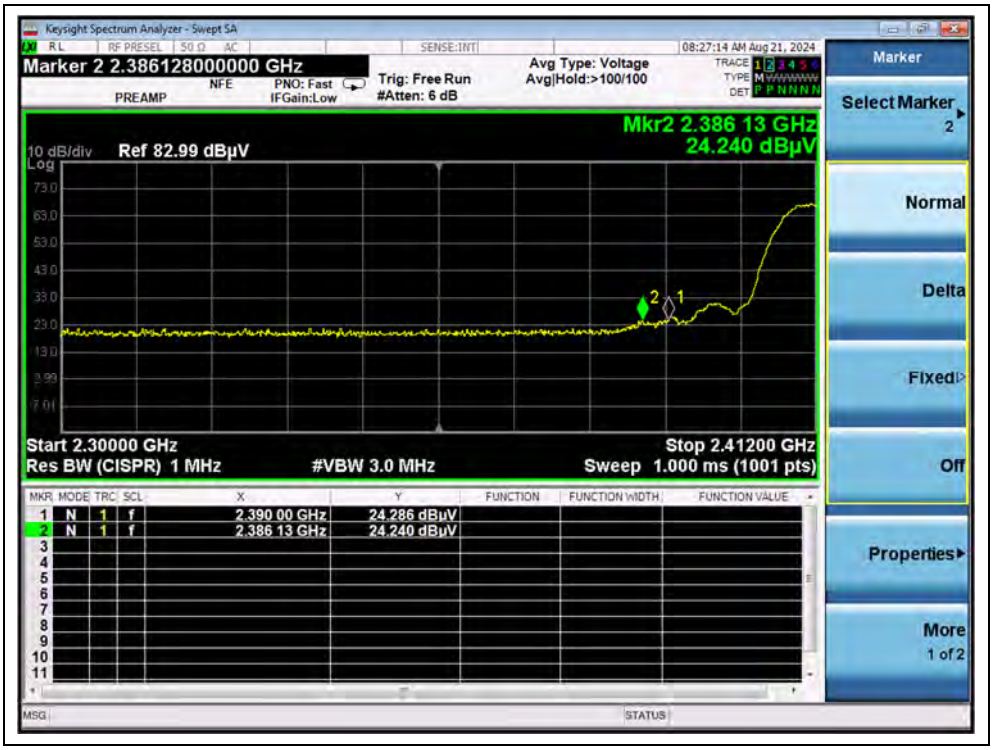
(PEAK, Channel 11, 802.11b)

(AVERAGE, Channel 11, 802.11b)

ANT 2

802.11b 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						
1	2390.00	PK	24.29	6.74	27.20	58.23	74	PASS
1	2390.00	AV	17.75	6.74	27.20	51.69	54	PASS
11	2483.50	PK	26.22	6.74	27.20	60.16	74	PASS
11	2483.50	AV	18.38	6.74	27.20	52.32	54	PASS



(PEAK, Channel 1, 802.11b)

(AVERAGE, Channel 1, 802.11b)

(PEAK, Channel 11, 802.11b)

(AVERAGE, Channel 11, 802.11b)

A.10. Radiated Emission

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

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

A_T: Total correction Factor except Antenna

U_R: Receiver Reading

G_{preamp}: Preamplifier Gain

A_{Factor}: Antenna Factor at 3m

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

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

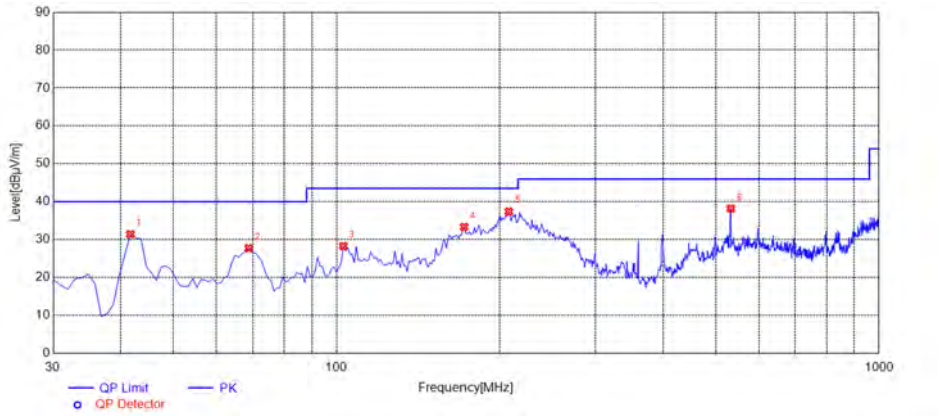
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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

Note4: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

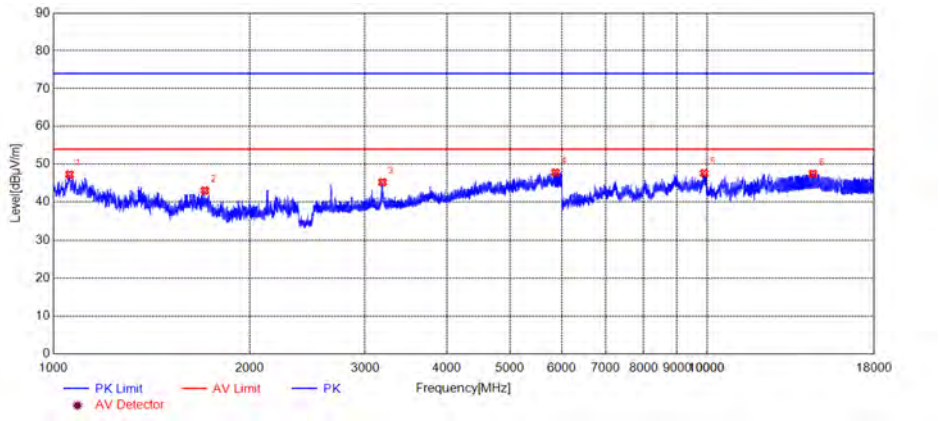
ANT 1, 802.11b Mode

Plot for Channel 1



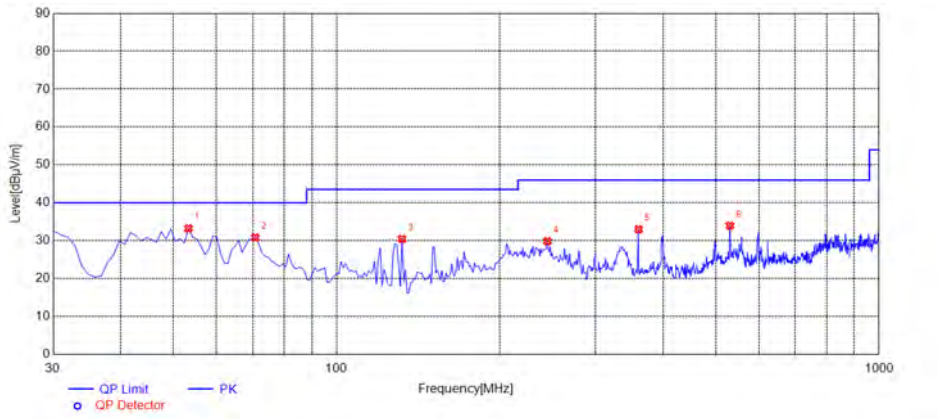
Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
41.6517	31.40	-29.40	40.00	Horizontal	PASS
68.8388	27.75	-32.79	40.00	Horizontal	PASS
102.8228	28.32	-31.18	43.50	Horizontal	PASS
171.7618	33.34	-33.89	43.50	Horizontal	PASS
207.6877	37.41	-31.92	43.50	Horizontal	PASS
532.9630	38.19	-23.62	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



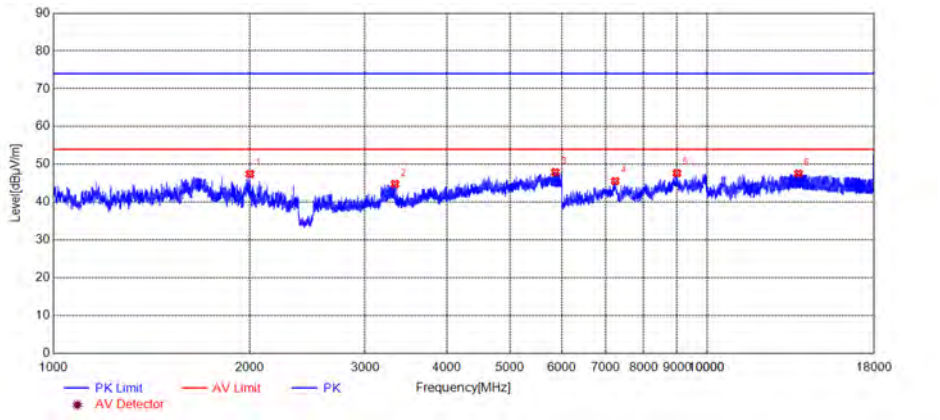
Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
1059.5060	47.29	-24.15	74.00	Horizontal	PASS
1706.0706	43.06	-23.68	74.00	Horizontal	PASS
3190.7191	45.27	-17.38	74.00	Horizontal	PASS
5865.9866	47.82	-8.02	74.00	Horizontal	PASS
9897.9898	47.63	0.54	74.00	Horizontal	PASS
14519.6520	47.51	6.17	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
53.3033	33.25	-29.51	40.00	Vertical	PASS
70.7808	30.86	-33.44	40.00	Vertical	PASS
131.9520	30.49	-34.69	43.50	Vertical	PASS
244.5846	29.89	-30.60	46.00	Vertical	PASS
360.1301	33.02	-27.24	46.00	Vertical	PASS
531.0210	33.98	-23.63	46.00	Vertical	PASS

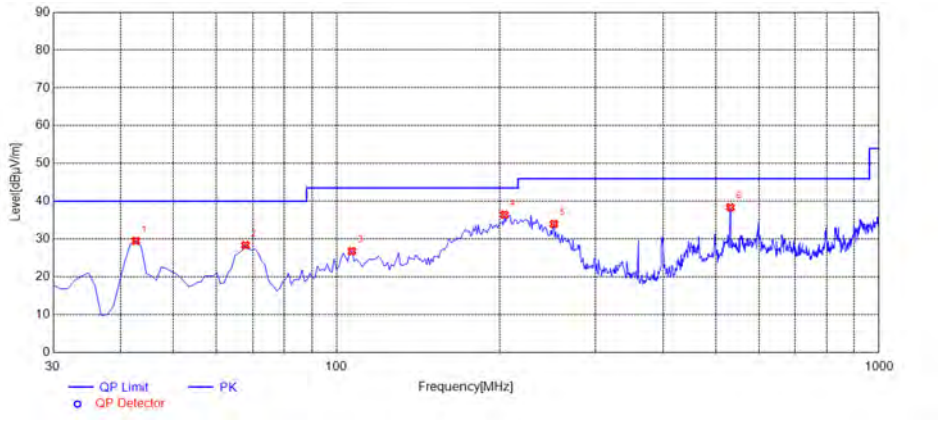
(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
2000.1000	47.47	-21.89	74.00	Vertical	PASS
3332.2332	44.80	-16.53	74.00	Vertical	PASS
5860.4860	47.95	-7.98	74.00	Vertical	PASS
7233.7234	45.58	-3.24	74.00	Vertical	PASS
8991.8992	47.66	-0.88	74.00	Vertical	PASS
13793.5794	47.58	6.36	74.00	Vertical	PASS

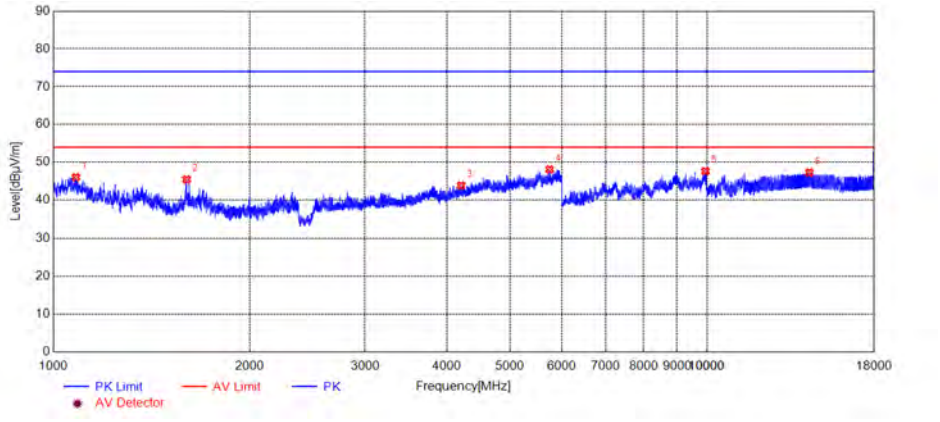
(Antenna Vertical, 1GHz to 18GHz)

Plot for Channel 6



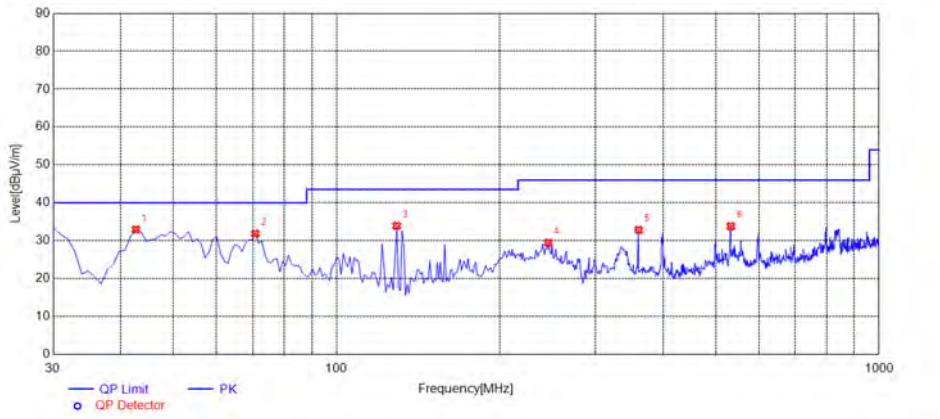
Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
42.6226	29.53	-29.25	40.00	Horizontal	PASS
67.8679	28.40	-32.35	40.00	Horizontal	PASS
106.7067	26.81	-31.04	43.50	Horizontal	PASS
203.8038	36.48	-31.70	43.50	Horizontal	PASS
251.3814	34.02	-30.36	46.00	Horizontal	PASS
531.9920	38.43	-23.63	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



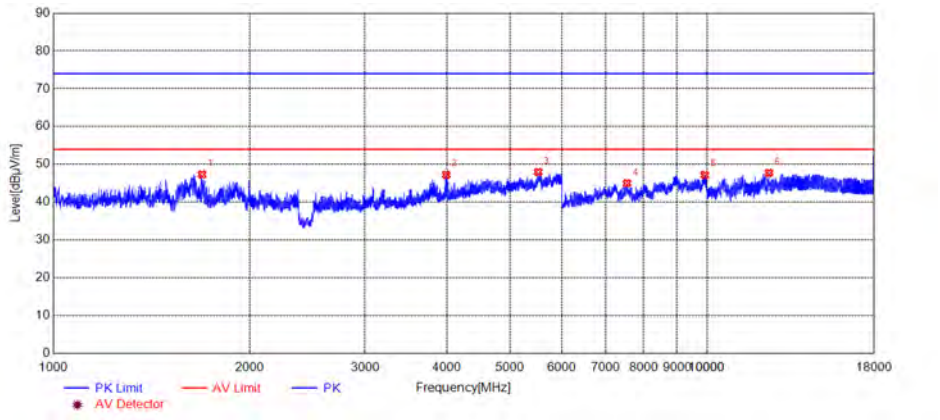
Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
1083.5084	46.03	-24.30	74.00	Horizontal	PASS
1600.0600	45.49	-23.59	74.00	Horizontal	PASS
4205.3205	43.88	-13.71	74.00	Horizontal	PASS
5744.4744	48.13	-7.96	74.00	Horizontal	PASS
9944.7945	47.65	0.21	74.00	Horizontal	PASS
14334.8335	47.29	6.98	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
42.6226	32.97	-29.25	40.00	Vertical	PASS
70.7808	31.85	-33.44	40.00	Vertical	PASS
129.0390	33.95	-34.72	43.50	Vertical	PASS
245.5556	29.48	-30.58	46.00	Vertical	PASS
360.1301	32.84	-27.24	46.00	Vertical	PASS
532.9630	33.82	-23.62	46.00	Vertical	PASS

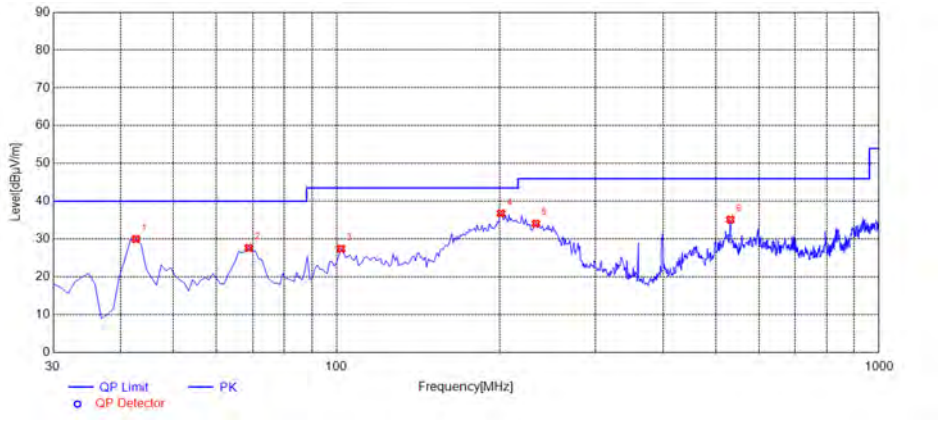
(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
1689.0689	47.34	-23.69	74.00	Vertical	PASS
3990.7991	47.24	-15.37	74.00	Vertical	PASS
5515.9516	47.99	-9.18	74.00	Vertical	PASS
7543.3543	45.01	-4.31	74.00	Vertical	PASS
9917.1917	47.22	0.42	74.00	Vertical	PASS
12435.0435	47.77	4.63	74.00	Vertical	PASS

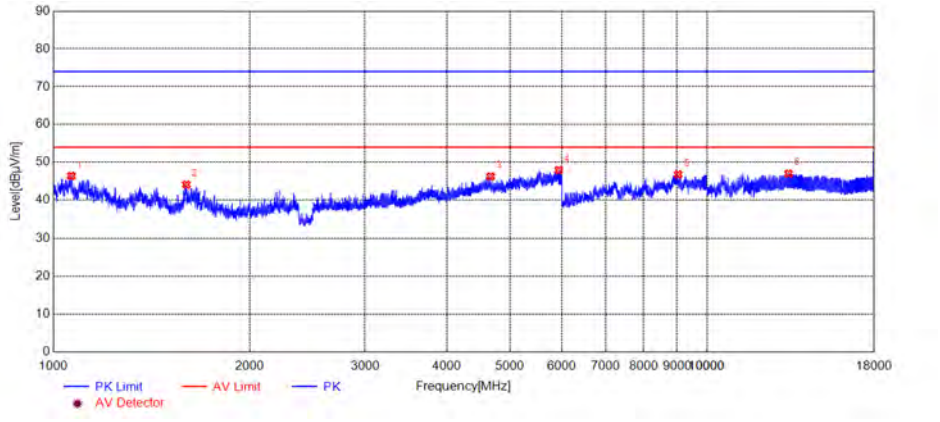
(Antenna Vertical, 1GHz to 18GHz)

Plot for Channel 11



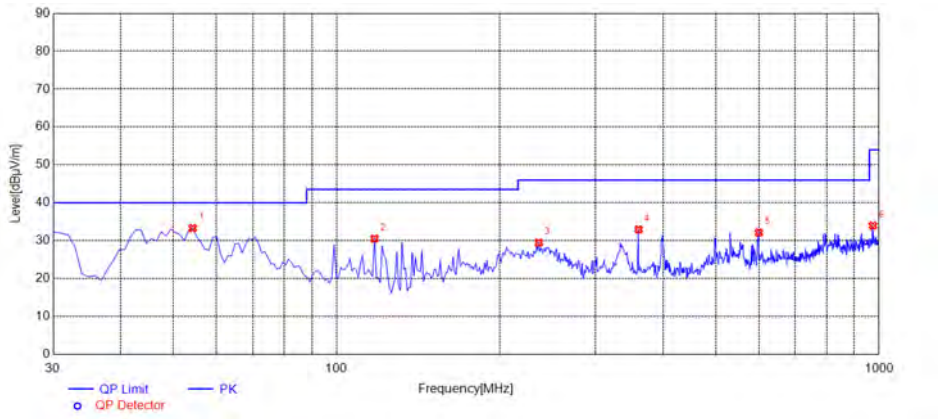
Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
42.6226	29.98	-29.25	40.00	Horizontal	PASS
68.8388	27.67	-32.79	40.00	Horizontal	PASS
101.8519	27.46	-31.13	43.50	Horizontal	PASS
200.8909	36.80	-31.66	43.50	Horizontal	PASS
232.9329	34.08	-30.93	46.00	Horizontal	PASS
531.9920	35.14	-23.63	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



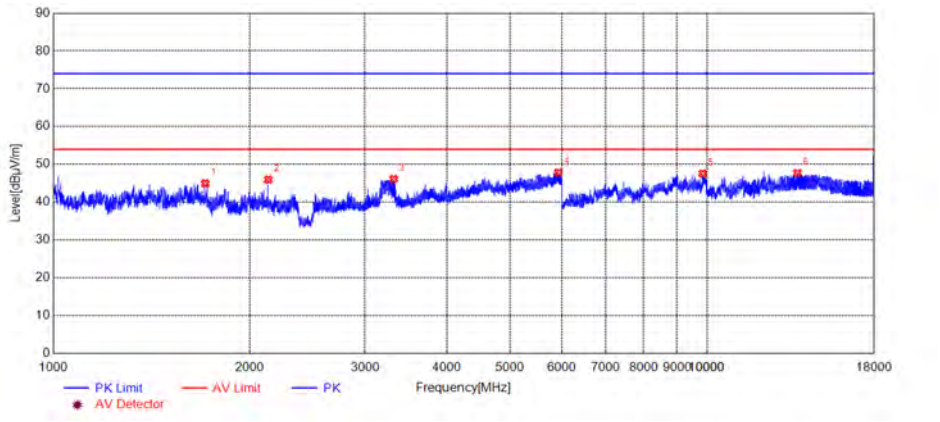
Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
1066.0066	46.41	-24.19	74.00	Horizontal	PASS
1598.5599	44.10	-23.60	74.00	Horizontal	PASS
4666.3666	46.26	-11.45	74.00	Horizontal	PASS
5931.4931	47.96	-8.08	74.00	Horizontal	PASS
9031.5032	46.81	-1.22	74.00	Horizontal	PASS
13325.5326	47.02	5.40	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
54.2743	33.32	-29.36	40.00	Vertical	PASS
117.3874	30.57	-32.46	43.50	Vertical	PASS
235.8458	29.49	-30.83	46.00	Vertical	PASS
360.1301	32.97	-27.24	46.00	Vertical	PASS
599.9600	32.13	-21.99	46.00	Vertical	PASS
974.7548	33.99	-18.60	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)

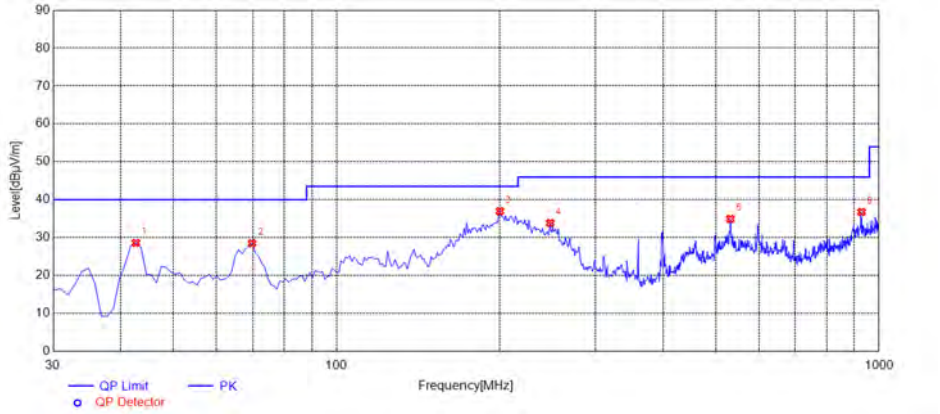


Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
1708.5709	44.98	-23.67	74.00	Vertical	PASS
2132.6133	45.97	-21.58	74.00	Vertical	PASS
3317.7318	46.10	-16.51	74.00	Vertical	PASS
5922.9923	47.85	-8.11	74.00	Vertical	PASS
9847.5848	47.57	0.16	74.00	Vertical	PASS
13745.5746	47.70	6.98	74.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

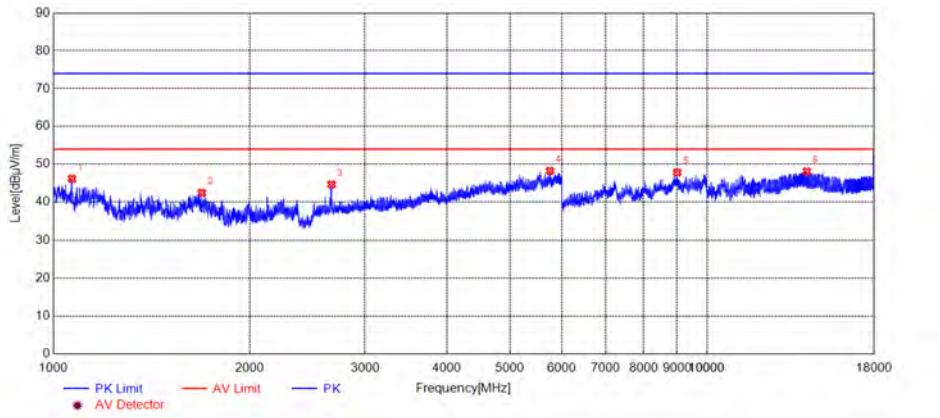
ANT 2, 802.11b Mode

Plot for Channel 1



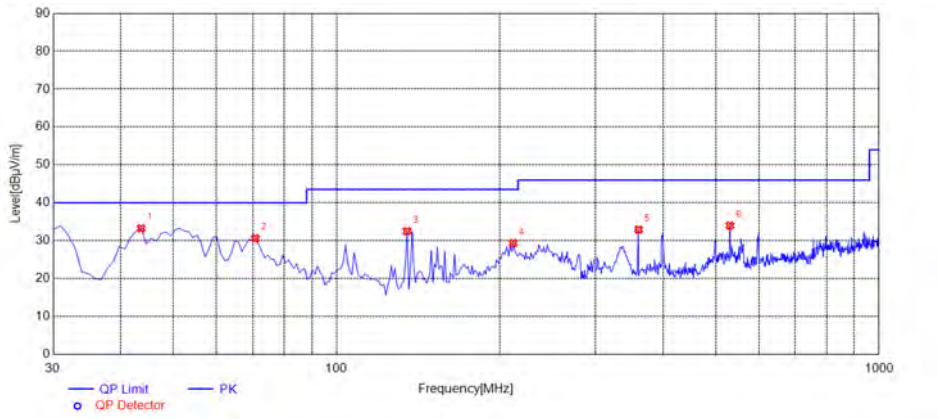
Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
42.6226	28.61	-29.25	40.00	Horizontal	PASS
69.8098	28.48	-33.23	40.00	Horizontal	PASS
199.9199	36.96	-31.67	43.50	Horizontal	PASS
247.4975	33.88	-30.50	46.00	Horizontal	PASS
531.9920	34.95	-23.63	46.00	Horizontal	PASS
928.1481	36.76	-19.07	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



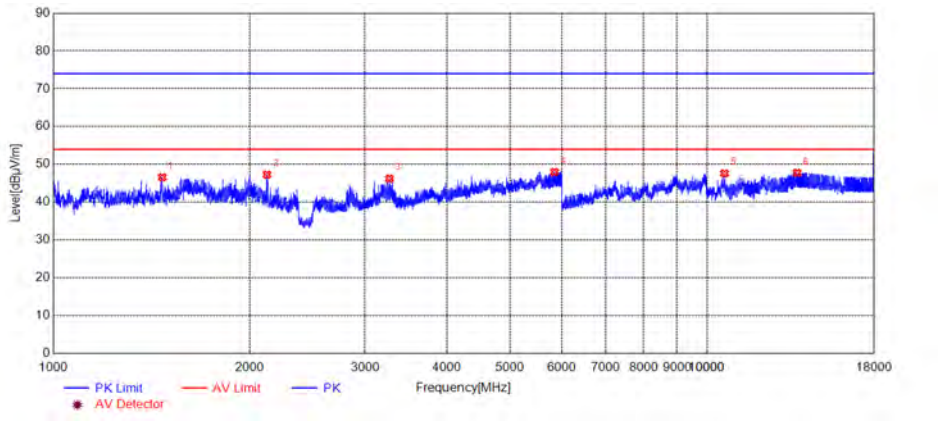
Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
1068.5069	46.17	-24.20	74.00	Horizontal	PASS
1687.5688	42.46	-23.69	74.00	Horizontal	PASS
2665.6666	44.68	-19.17	74.00	Horizontal	PASS
5751.9752	48.24	-7.87	74.00	Horizontal	PASS
9003.9004	47.84	-0.85	74.00	Horizontal	PASS
14201.6202	48.11	6.24	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
43.5936	33.26	-29.09	40.00	Vertical	PASS
70.7808	30.62	-33.44	40.00	Vertical	PASS
134.8649	32.54	-34.95	43.50	Vertical	PASS
211.5716	29.36	-32.05	43.50	Vertical	PASS
360.1301	32.94	-27.24	46.00	Vertical	PASS
531.0210	33.99	-23.63	46.00	Vertical	PASS

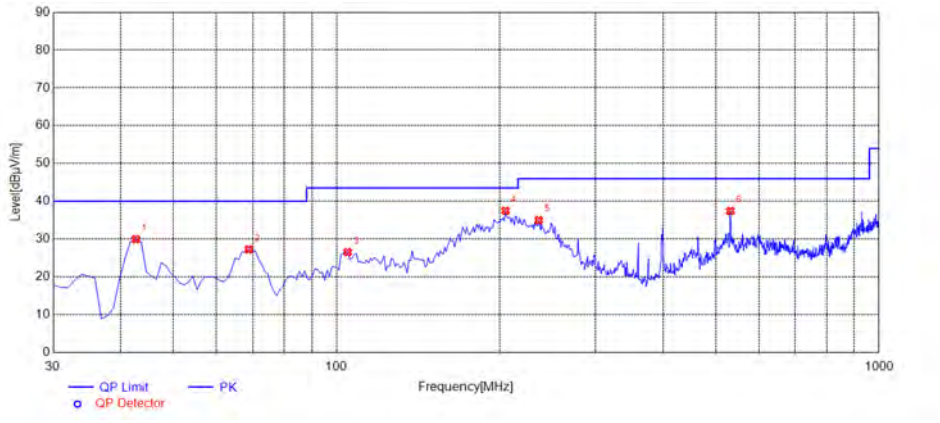
(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
1468.5469	46.60	-23.39	74.00	Vertical	PASS
2123.6124	47.29	-21.63	74.00	Vertical	PASS
3267.7268	46.22	-16.91	74.00	Vertical	PASS
5844.4844	47.99	-8.03	74.00	Vertical	PASS
10631.2631	47.62	2.51	74.00	Vertical	PASS
13731.1731	47.78	6.24	74.00	Vertical	PASS

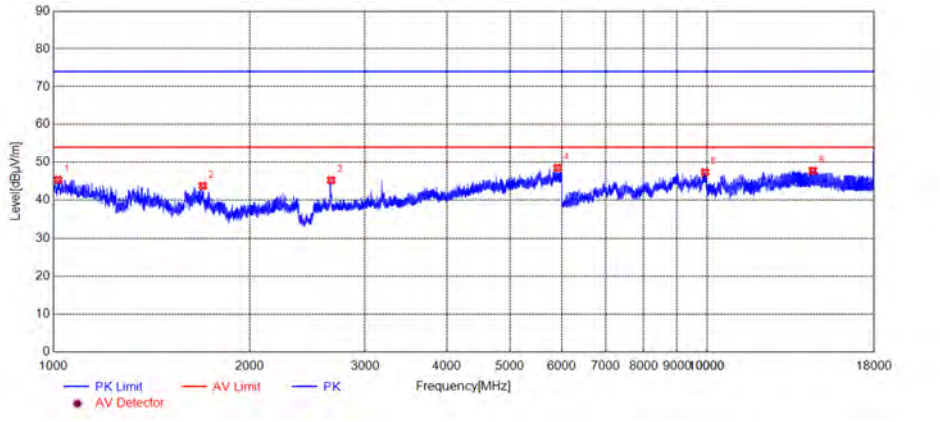
(Antenna Vertical, 1GHz to 18GHz)

Plot for Channel 6



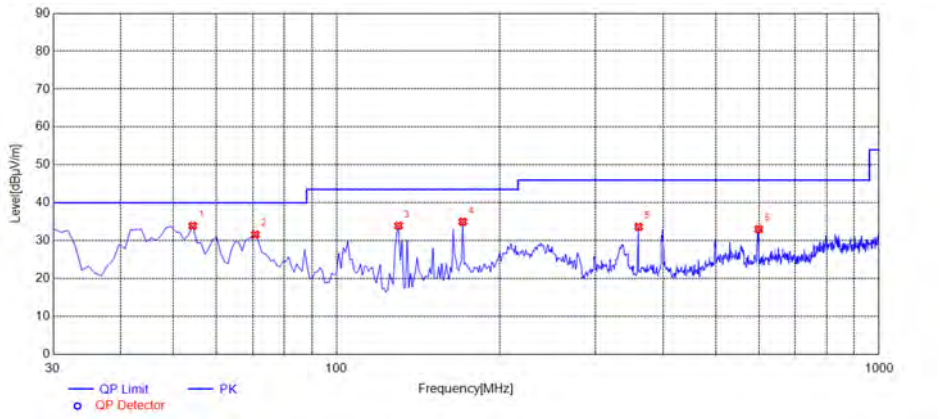
Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
42.6226	29.94	-29.25	40.00	Horizontal	PASS
68.8388	27.25	-32.79	40.00	Horizontal	PASS
104.7648	26.55	-31.03	43.50	Horizontal	PASS
204.7748	37.49	-31.71	43.50	Horizontal	PASS
235.8458	35.03	-30.83	46.00	Horizontal	PASS
531.9920	37.43	-23.63	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



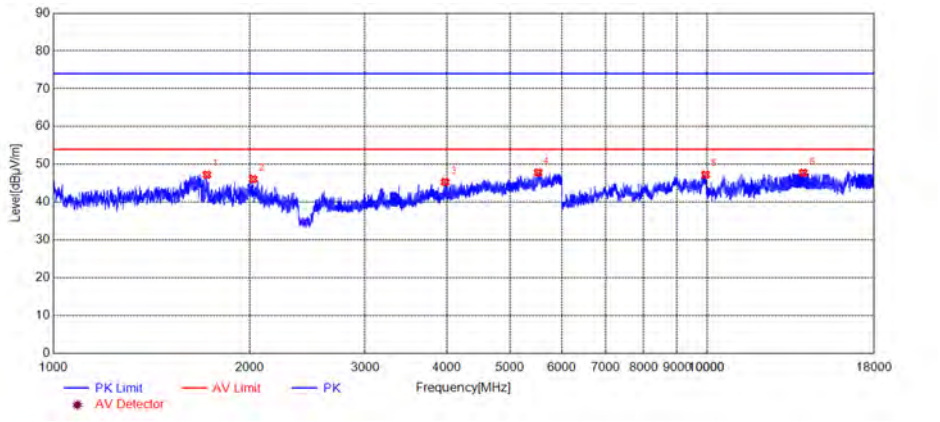
Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
1017.5018	45.38	-24.37	74.00	Horizontal	PASS
1693.5694	43.81	-23.70	74.00	Horizontal	PASS
2662.6663	45.28	-19.17	74.00	Horizontal	PASS
5907.9908	48.54	-8.18	74.00	Horizontal	PASS
9930.3930	47.38	0.32	74.00	Horizontal	PASS
14517.2517	47.80	6.20	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
54.2743	33.92	-29.36	40.00	Vertical	PASS
70.7808	31.64	-33.44	40.00	Vertical	PASS
130.0100	33.97	-34.73	43.50	Vertical	PASS
170.7908	35.00	-34.07	43.50	Vertical	PASS
360.1301	33.66	-27.24	46.00	Vertical	PASS
599.9600	33.03	-21.99	46.00	Vertical	PASS

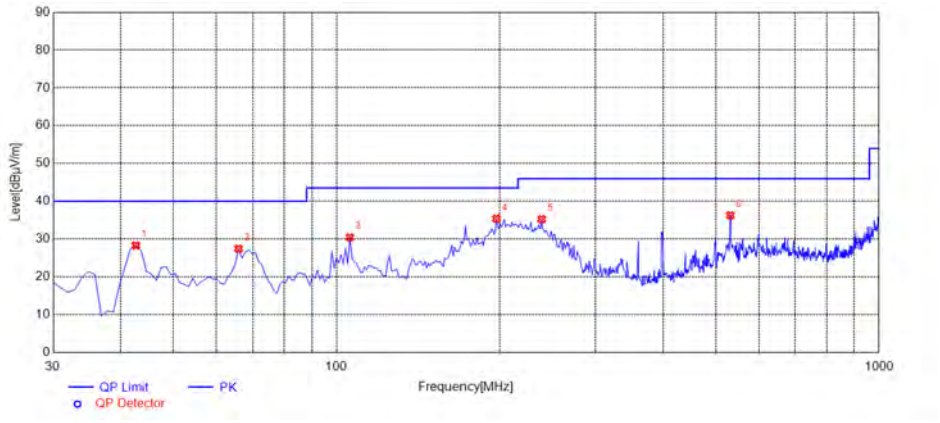
(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
1718.5719	47.27	-23.62	74.00	Vertical	PASS
2022.1022	46.12	-21.94	74.00	Vertical	PASS
3975.2975	45.34	-15.19	74.00	Vertical	PASS
5515.4515	47.87	-9.20	74.00	Vertical	PASS
9948.3948	47.28	0.18	74.00	Vertical	PASS
14037.2037	47.77	6.68	74.00	Vertical	PASS

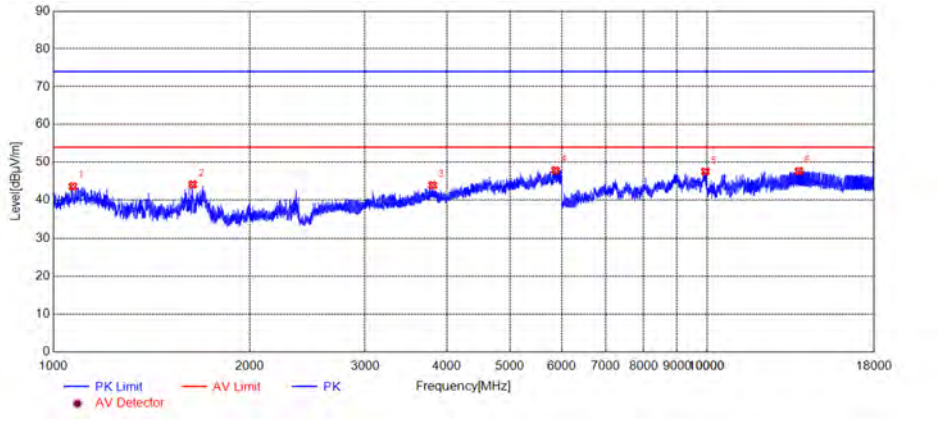
(Antenna Vertical, 1GHz to 18GHz)

Plot for Channel 11



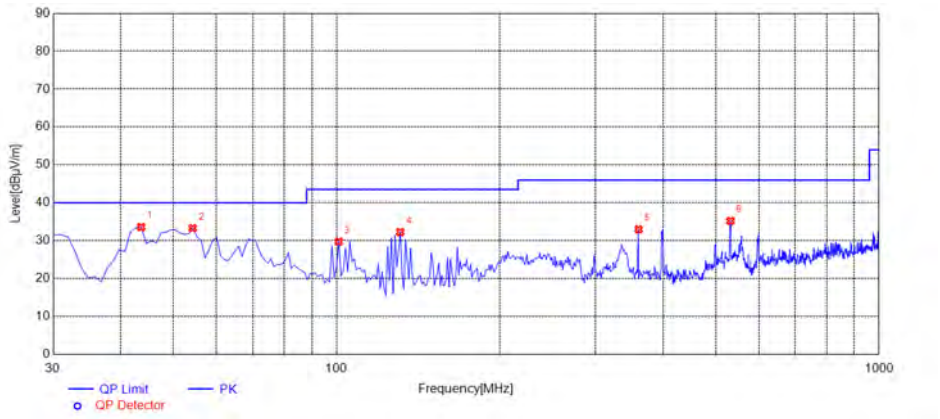
Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
42.6226	28.32	-29.25	40.00	Horizontal	PASS
65.9259	27.47	-31.57	40.00	Horizontal	PASS
105.7357	30.45	-30.93	43.50	Horizontal	PASS
197.0070	35.40	-31.97	43.50	Horizontal	PASS
238.7588	35.28	-30.70	46.00	Horizontal	PASS
531.9920	36.28	-23.63	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



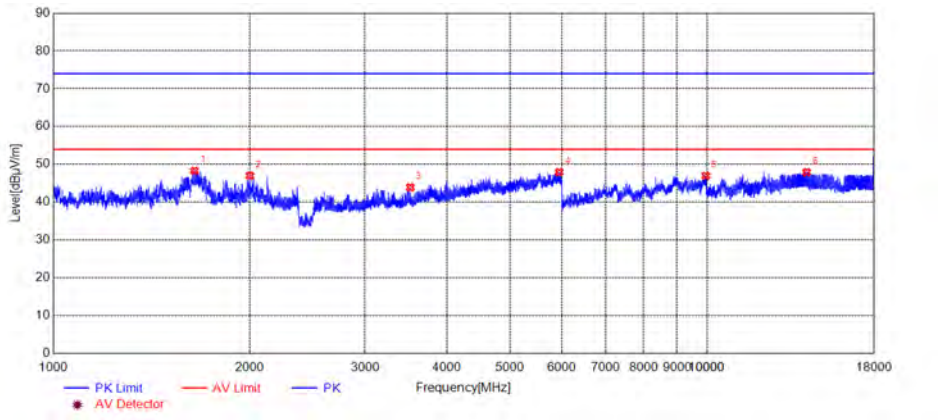
Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
1072.0072	43.62	-24.23	74.00	Horizontal	PASS
1635.0635	44.14	-23.61	74.00	Horizontal	PASS
3805.7806	43.95	-14.96	74.00	Horizontal	PASS
5864.4864	47.91	-8.01	74.00	Horizontal	PASS
9942.3942	47.56	0.23	74.00	Horizontal	PASS
13827.1827	47.67	6.08	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
43.5936	33.60	-29.09	40.00	Vertical	PASS
54.2743	33.32	-29.36	40.00	Vertical	PASS
100.8809	29.77	-31.29	43.50	Vertical	PASS
130.9810	32.26	-34.52	43.50	Vertical	PASS
360.1301	33.03	-27.24	46.00	Vertical	PASS
531.9920	35.24	-23.63	46.00	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Antenna	Verdict
1644.5645	48.29	-23.62	74.00	Vertical	PASS
1999.0999	47.01	-21.91	74.00	Vertical	PASS
3516.7517	43.94	-16.22	74.00	Vertical	PASS
5941.9942	47.97	-8.03	74.00	Vertical	PASS
9957.9958	46.96	0.13	74.00	Vertical	PASS
14196.8197	47.93	6.28	74.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

END OF REPORT