

CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

Multi-Biometric Time Recorder

MODEL NUMBER: CB4000N

REPORT NUMBER: E04A26010729F00201

ISSUE DATE: April 27, 2026

FCC ID: 2ARPD-CB4000N

Prepared for

ALLIED TIME USA INC

416 N.Orange Ave. Deland, Florida 32720, United States

Prepared by

Guangdong Global Testing Technology Co., Ltd.

**Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park,
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**This report is based on a single evaluation of the submitted sample(s) of the above mentioned product, it does not imply an assessment of the production of the products.
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Guangdong Global Testing Technology Co., Ltd.**

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	April 27, 2026	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2020, Clause 6.2	FCC Part 15.207	Pass
Conducted Output Power	ANSI C63.10-2020, Clause 11.9.2.3.2	FCC Part 15.247 (b)(3)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2020, Clause 11.8.1	FCC Part 15.247 (a)(2)	Pass
Power Spectral Density	ANSI C63.10-2020, Clause 11.10.5	FCC Part 15.247 (e)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2020, Clause 11.11	FCC Part 15.247(d)	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2020, Clause 11.12	FCC Part 15.247 (d) FCC Part 15.205/15.209	Pass
Duty Cycle	ANSI C63.10-2020, Clause 11.6	None; for reporting purposes only.	Pass

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: ALLIED TIME USA INC
Address: 416 N.Orange Ave. Deland,Florida 32720,United States

Manufacturer Information

Company Name: SHENZHEN WANGLINFA TECHNOLOGY CORPORATION
Address: 2/F Block P, Shang Xia Wei Industrial Area, Sha 3, Shajing,
Bao-an District, ShenZhen GuangDong, China

EUT Information

Product Description: Multi-Biometric Time Recorder
Model: CB4000N
Brand: /
Sample Received Date: March 26, 2026
Sample Status: Normal
Sample ID: A26010729 002
Date of Tested: March 26, 2026 to April 2, 2026

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C	Pass

Prepared By:

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Checked By:

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Alan He

Laboratory Manager



2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules ISED (Company No.: 30714) Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.
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Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Items	k	Uncertainty
DTS Bandwidth	1.96	±9.2 PPM
20dB Emission Bandwidth	1.96	±9.2 PPM
Carrier Frequency Separation	1.96	±9.2 PPM
Time of Occupancy	1.96	±0.57%
Conducted Output Power	1.96	±1.5 dB
Power Spectral Density Level	1.96	±1.9 dB
Conducted Spurious Emission	1.96	9 kHz-30 MHz: ± 0.95 dB 30 MHz-1 GHz: ± 1.5 dB 1GHz-12.75GHz: ± 1.8 dB 12.75 GHz-26.5 GHz: ± 2.1dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.		

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions from the AC mains power ports (AMN)	150 kHz ~ 30 MHz	2	3.37
Radiated emissions	9 kHz ~ 30 MHz	2	4.16
Radiated emissions	30 MHz ~ 1 GHz	2	3.79
Radiated emissions	1 GHz ~ 18 GHz	2	5.62
Radiated emissions	18 GHz ~ 40 GHz	2	5.54
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		Multi-Biometric Time Recorder
Model		CB4000N
Series Model		N/A
Hardware Version		N/A
Software Version		BAK_3760E_FP_MB_V2.1
Ratings		100-240V, 50~60Hz, 0.3A
Power Supply	AC	120V/60Hz

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2412 MHz to 2462 MHz
Support Standards:	802.11b/g/n
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK)
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n: Up to MCS7
Number of Channels:	IEEE 802.11b/g/n HT20: 11
Maximum Conducted Power:	IEEE 802.11b: 15.97 dBm IEEE 802.11g: 15.65 dBm IEEE 802.11n HT20: 14.74 dBm
Antenna Type:	Internal Antenna
Antenna Gain:	2.07dBi
Normal Test Voltage:	AC 120V/60Hz
EUT Test software:	SecureCRT
Note:	The Antenna Gain was provided by customer, and this information may affect the validity of the results, customer should be responsible for this.

5.2. CHANNEL LIST

Channel List for 802.11b/g/n (20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462
3	2422	6	2437	9	2452	/	/

5.3. MAXIMUM CONDUCTED OUTPUT POWER

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Average Output Power (dBm)
b	2412 ~ 2462	1-11[11]	15.97
g	2412 ~ 2462	1-11[11]	15.65
n HT20	2412 ~ 2462	1-11[11]	14.74

5.4. TEST CHANNEL CONFIGURATION

IEEE Std. 802.11	Test Channel Number	Frequency
b	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
g	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Software		SecureCRT					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		
		CH 1	CH 6	CH 11	CH 3	CH 6	CH 9
802.11b	1	40	40	40	/		
802.11g	1	50	48	50			
802.11n HT20	1	50	48	48			

WORST-CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps
 802.11g mode: 6 Mbps
 802.11n HT20 mode: MCS0

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	Internal Antenna	2.07

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11g	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.

5.7. SUPPORT UNITS FOR SYSTEM TEST

The following support units or accessories were used to form a representative test configuration during the tests.

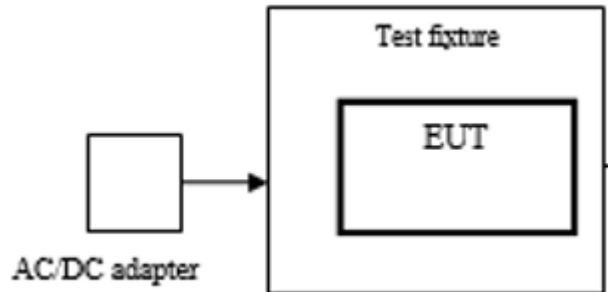
Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Laptop	Lenovo	Thinkpad T14	PF-3EAKYR	GTG Support

The following cables were used to form a representative test configuration during the tests.

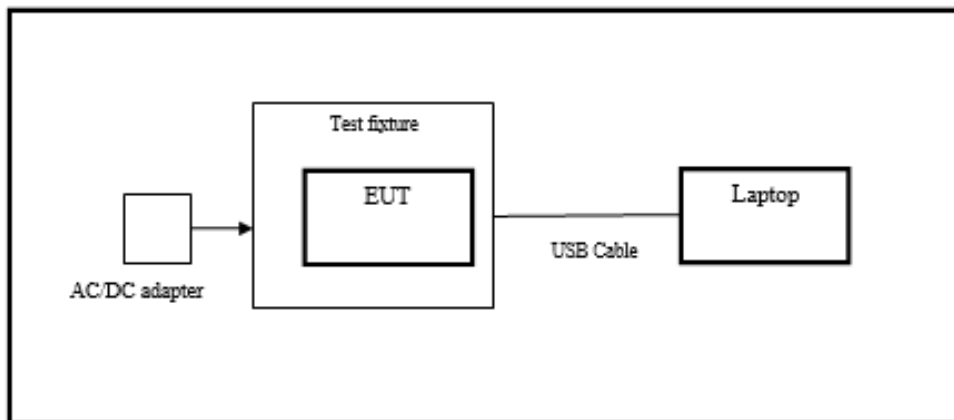
Item	Type of cable	Shielded Type	Ferrite Core	Length
C-1	USB cable	Shielded	without ferrite	1.0 m

5.8. SETUP DIAGRAM

AC conducted emission



Radiated Emission & RF conducted:



6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted RF					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40	102257	2025/08/25	2026/08/24
Spectrum Analyzer	KEYSIGHT	N9020A	MY51285127	2025/08/25	2026/08/24
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2025/08/25	2026/08/24
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2025/08/25	2026/08/24
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2025/08/25	2026/08/24
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2025/08/25	2026/08/24
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2025/08/25	2026/08/24
temperature humidity chamber	Espec	SH-241	SH-241-2014	2025/08/25	2026/08/24
RF Test Software	MWRF-test	MTS8310E (Ver. V2/0)	N/A	N/A	N/A

Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2025/08/23	2026/08/22
EMI Test Receiver	Rohde & Schwarz	ESCI3	101144	2025/08/23	2026/08/22
Pre-Amplifier	HzEMC	HPA-9K0130	HYPA21001	2025/08/23	2026/08/22
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2025/09/20	2028/09/19
Biconilog Antenna	ETS	3142E	00243651	2025/02/22	2028/02/21
Loop Antenna	ETS	6502	00243668	2025/02/22	2028/02/21
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A

Test Equipment of Radiated emissions above 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2149	2025/08/23	2026/08/22
Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2025/08/23	2026/08/22
Pre-Amplifier	HzEMC	HPA-1G1850	HYPA21003	2025/08/23	2026/08/22
Horn antenna	ETS	3117	00246069	2025/02/22	2028/02/21
Pre-Amplifier	HzEMC	HPA-184057	HYPA21004	2025/08/23	2026/08/22
Horn antenna	ETS	3116C	00246265	2025/02/22	2028/02/21
RF Filter Bank	HzEMC	HSW-F18	HSWF2218E01	2025/08/23	2026/08/22

RF Filter Bank	HzEMC	HPF18	HPF2218E02	2025/08/23	2026/08/22
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE+)	N/A	N/A	N/A

Test Equipment of Conducted emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielded Room	CHENG YU	8m*5m*4m	N/A	2025/08/23	2026/08/22
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2025/08/23	2026/08/22
LISN/AMN	Rohde & Schwarz	ENV216	102843	2025/08/23	2026/08/22
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2025/08/23	2026/08/22
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3)	Conducted Output Power	1 watt or 30 dBm	2400-2483.5

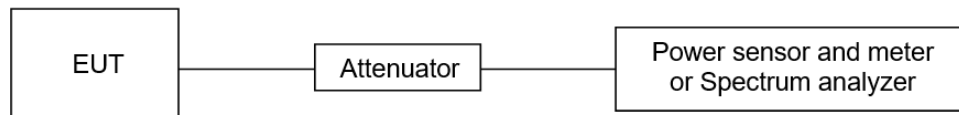
TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 11.9.2.3.2

Connect the EUT to a low loss RF cable from the antenna port to the power sensor and meter or Spectrum analyzer (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

TEST SETUP



TEST ENVIRONMENT

Temperature	24.8°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix A

7.2. 6DB BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth (FCC).

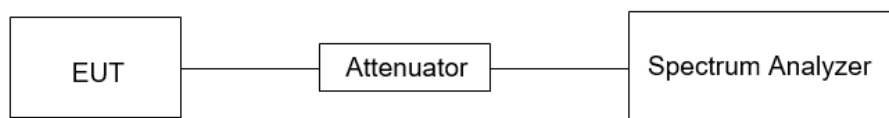
Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission
Detector	Peak
RBW	For 6 dB Bandwidth: 100 kHz
VBW	For 6 dB Bandwidth: $\geq 3 \times$ RBW
Trace	Max hold
Sweep	Auto couple

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



TEST ENVIRONMENT

Temperature	24.8°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix A

7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 11.10.5.

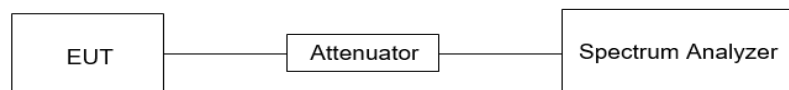
Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	PEAK
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP



TEST ENVIRONMENT

Temperature	24.8°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix A

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d)	Conducted Bandedge and Spurious Emissions	at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 11.11 and 11.13 (FCC).

Connect the EUT to the spectrum analyser and use the following settings for reference level measurement:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

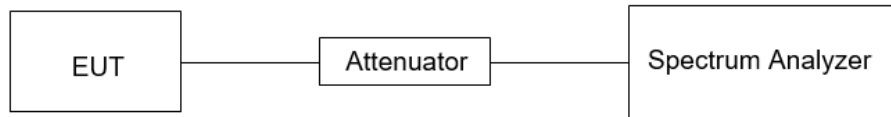
Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST SETUP



TEST ENVIRONMENT

Temperature	24.8°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix A

7.5. DUTY CYCLE

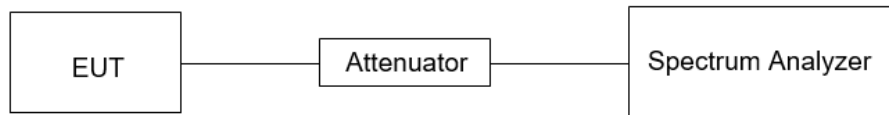
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	24.8°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix A

8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.4(FCC).
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.5(FCC)..

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

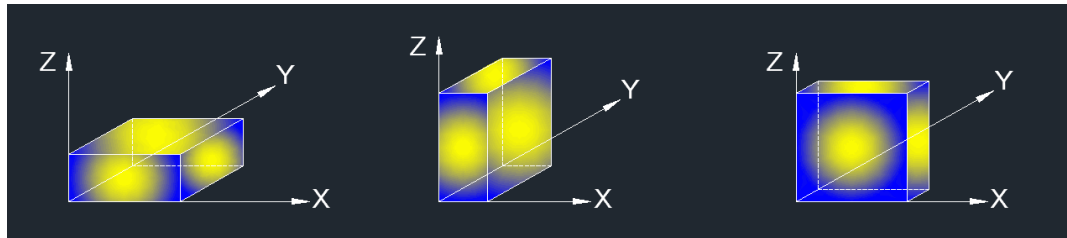
Above 1G

The setting of the spectrum analyser

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

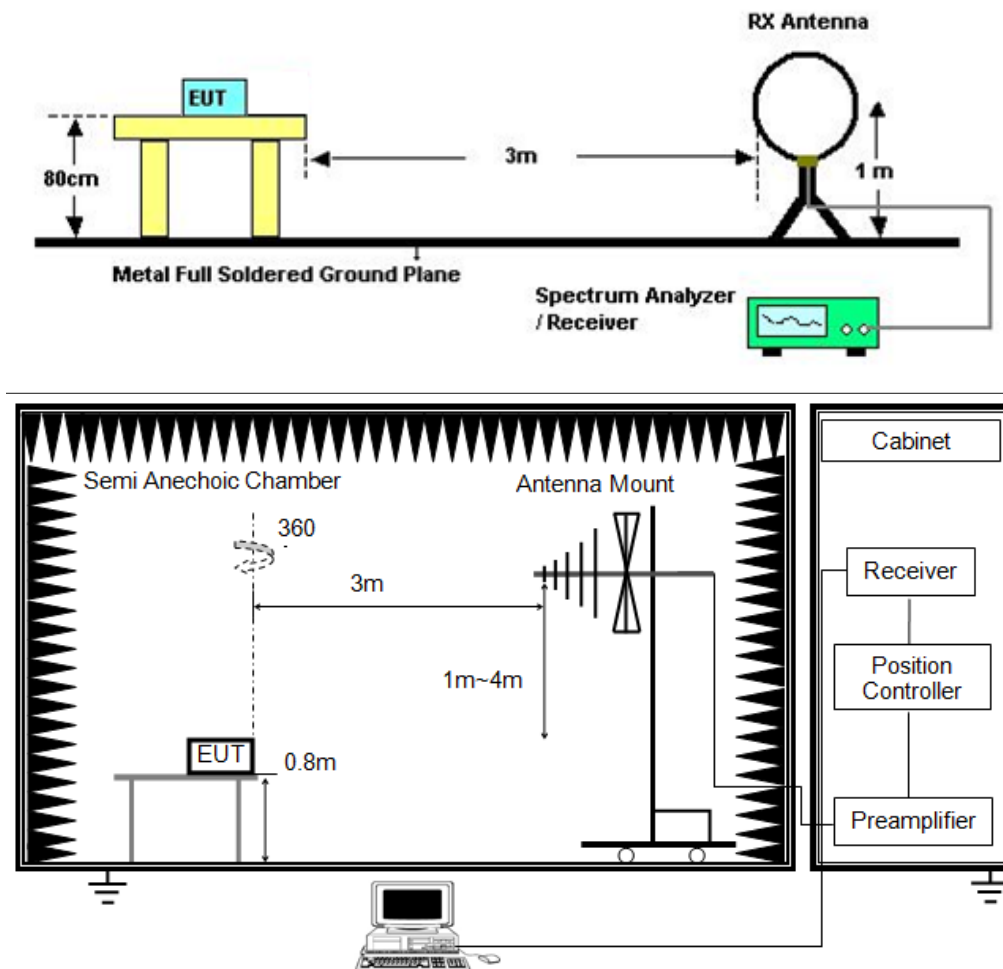
1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.6(FCC).
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

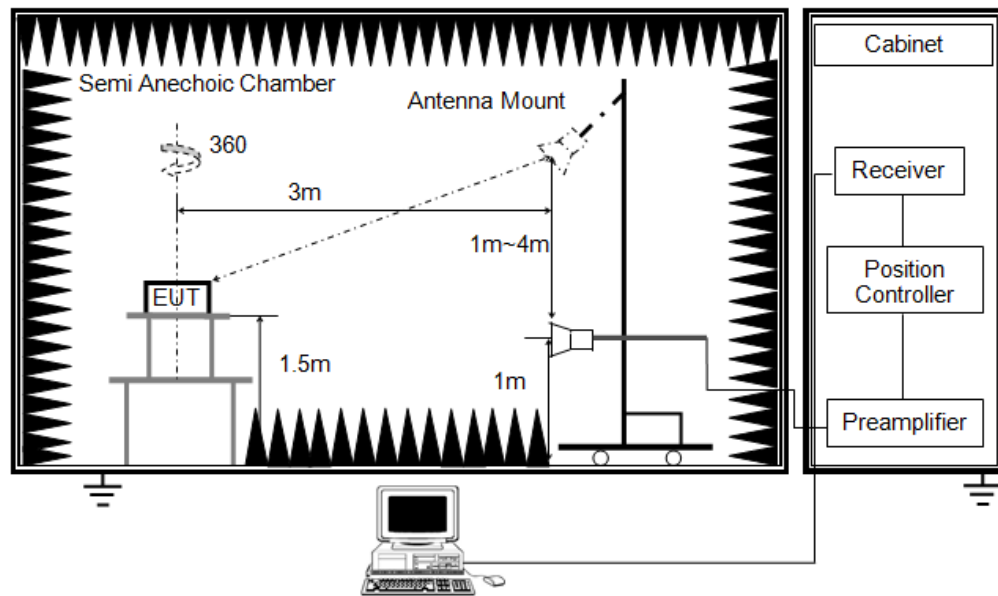
X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST SETUP



**TEST ENVIRONMENT**

Temperature	22.2℃	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

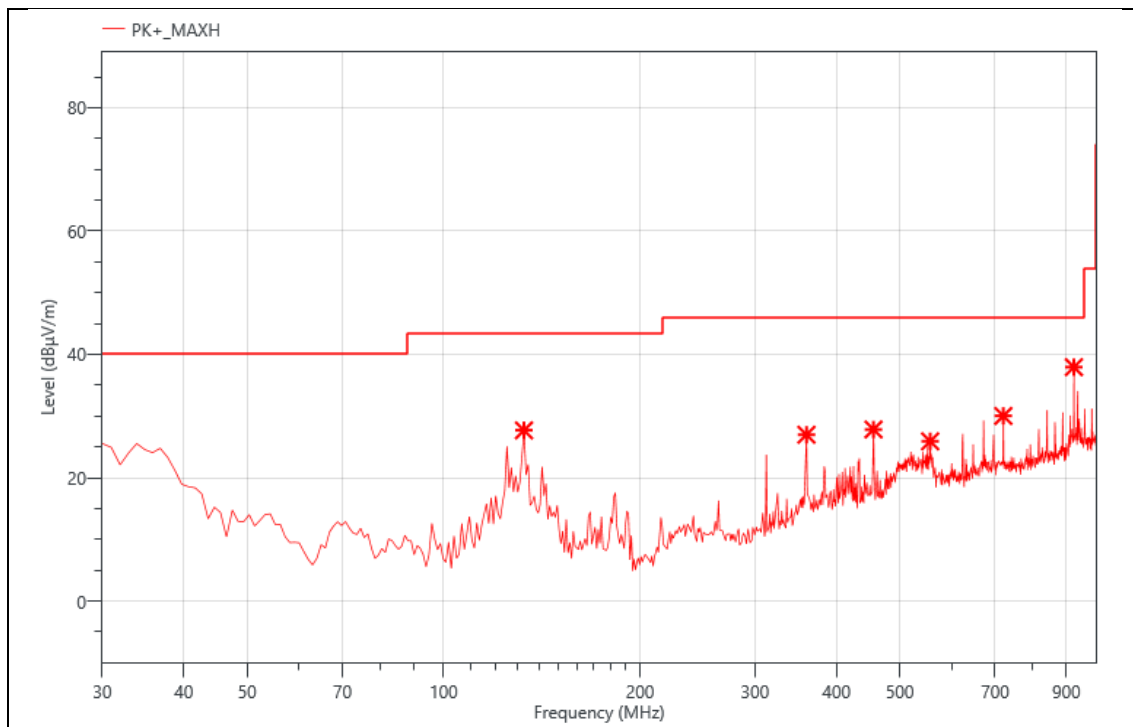
8.1. RADIATED BAND EDGE AND SPURIOUS EMISSION

Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)

All modes have been tested and the worst result as bellow:

Mode:	11B-2412
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/4/22
T/A/P	22.2°C/51%/101Kpa

Test Standard	FCC Part 15 C 3m				
Instrument	Device	Band	Detector	RBW	Time
ESCI 3	3142E-RX	30 MHz-1 GHz	PK+	100 kHz	Auto



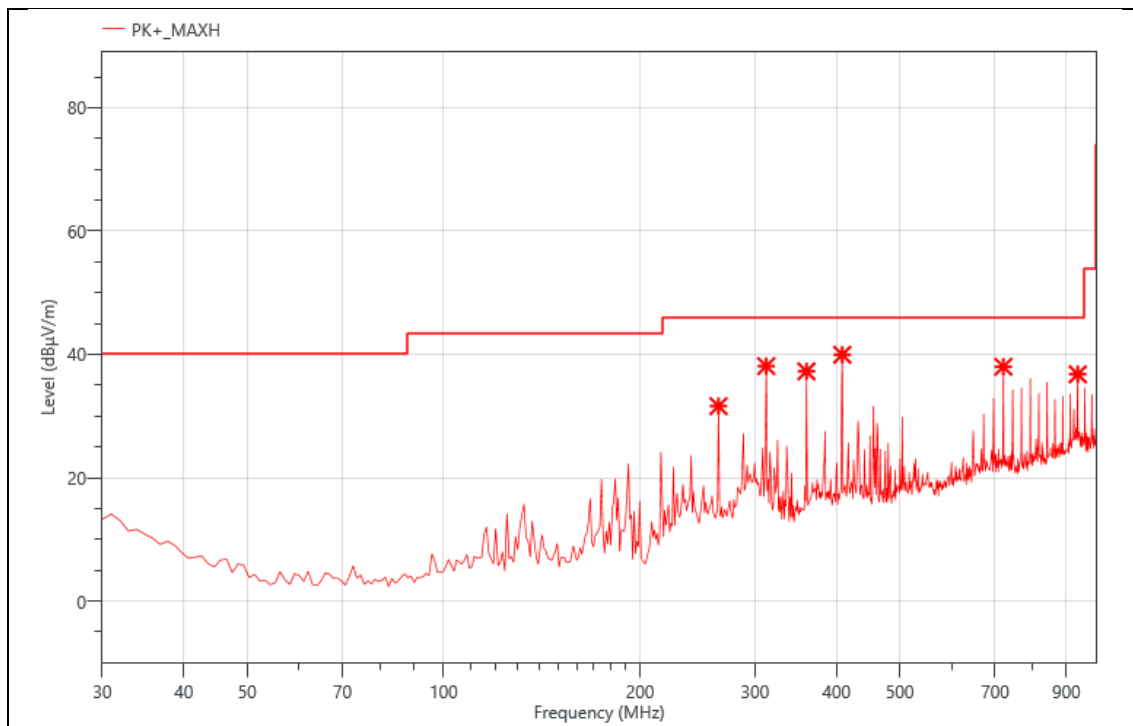
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	132.820	51.41	-23.72	27.69	43.50	15.81	PK+	V
2	359.800	42.68	-15.7	26.98	46.00	19.02	PK+	V
3	455.830	41.29	-13.46	27.83	46.00	18.17	PK+	V
4	556.710	35.74	-9.83	25.91	46.00	20.09	PK+	V
5	720.640	36.49	-6.46	30.03	46.00	15.97	PK+	V
6	924.340	40.44	-2.51	37.93	46.00	8.07	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11B-2412
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/4/22
T/A/P	22.2°C/51%/101Kpa

Test Standard	FCC Part 15 C 3m				
Instrument	Device	Band	Detector	RBW	Time
ESCI 3	3142E-RX	30 MHz-1 GHz	PK+	100 kHz	Auto



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	263.770	49.75	-18.14	31.61	46.00	14.39	PK+	H
2	312.270	56.15	-18.05	38.10	46.00	7.90	PK+	H
3	359.800	52.96	-15.7	37.26	46.00	8.74	PK+	H
4	408.300	53.39	-13.44	39.95	46.00	6.05	PK+	H
5	720.640	44.46	-6.46	38.00	46.00	8.00	PK+	H
6	936.950	38.94	-2.16	36.78	46.00	9.22	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Note:

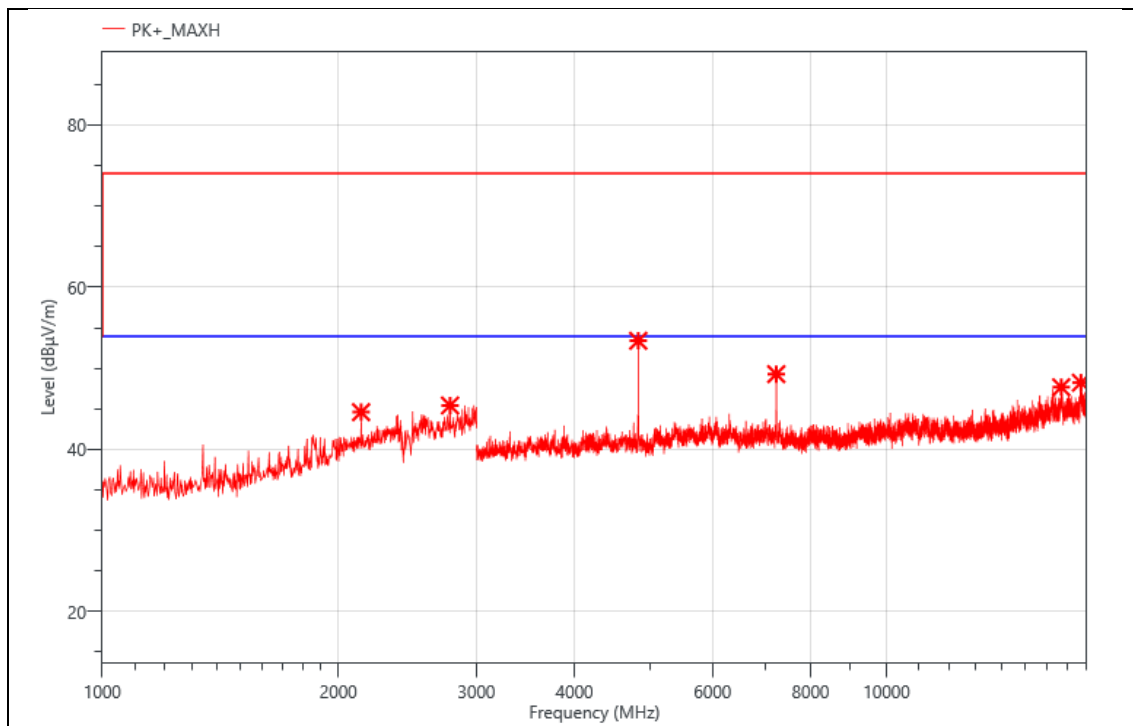
1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

All modes have been tested and the worst result as bellow:

Mode:	11B-2412
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/4/22
T/A/P	22.2°C/51%/101Kpa

Test Standard	FCC Part 15 C 3m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-	1 GHz-3 GHz	PK+	1 MHz	Auto
FSV	Ant-3117-	3 GHz-18 GHz	PK+	1 MHz	Auto

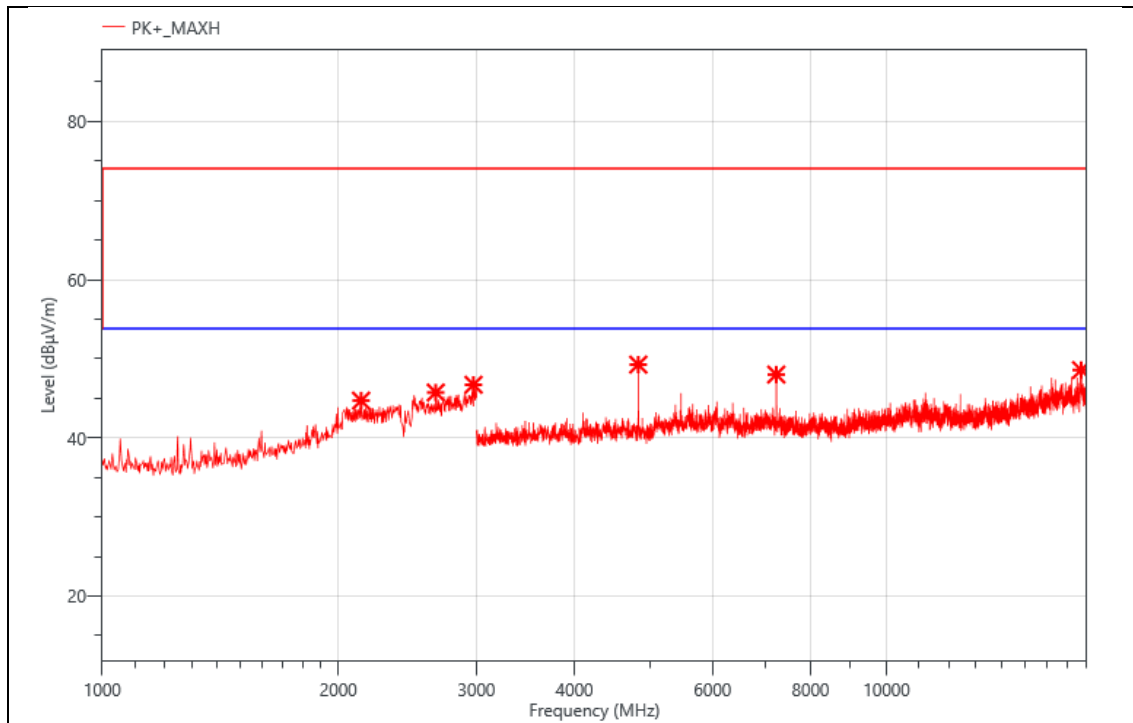
**Critical_Freqs**

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2138.000	53.64	-9.05	44.59	74.00	29.41	PK+	V
2	2776.000	53.75	-8.34	45.41	74.00	28.59	PK+	V
3	4824.000	64.87	-11.47	53.40	74.00	20.60	PK+	V
4	7234.500	57.41	-8.13	49.28	74.00	24.72	PK+	V
5	16699.500	48.19	-0.52	47.67	74.00	26.33	PK+	V
6	17694.000	48.01	0.21	48.22	74.00	25.78	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11B-2412
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/4/22
T/A/P	22.2°C/51%/101Kpa

Test Standard	FCC Part 15 C 3m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-	1 GHz-3 GHz	PK+	1 MHz	Auto
FSV	Ant-3117-	3 GHz-18 GHz	PK+	1 MHz	Auto



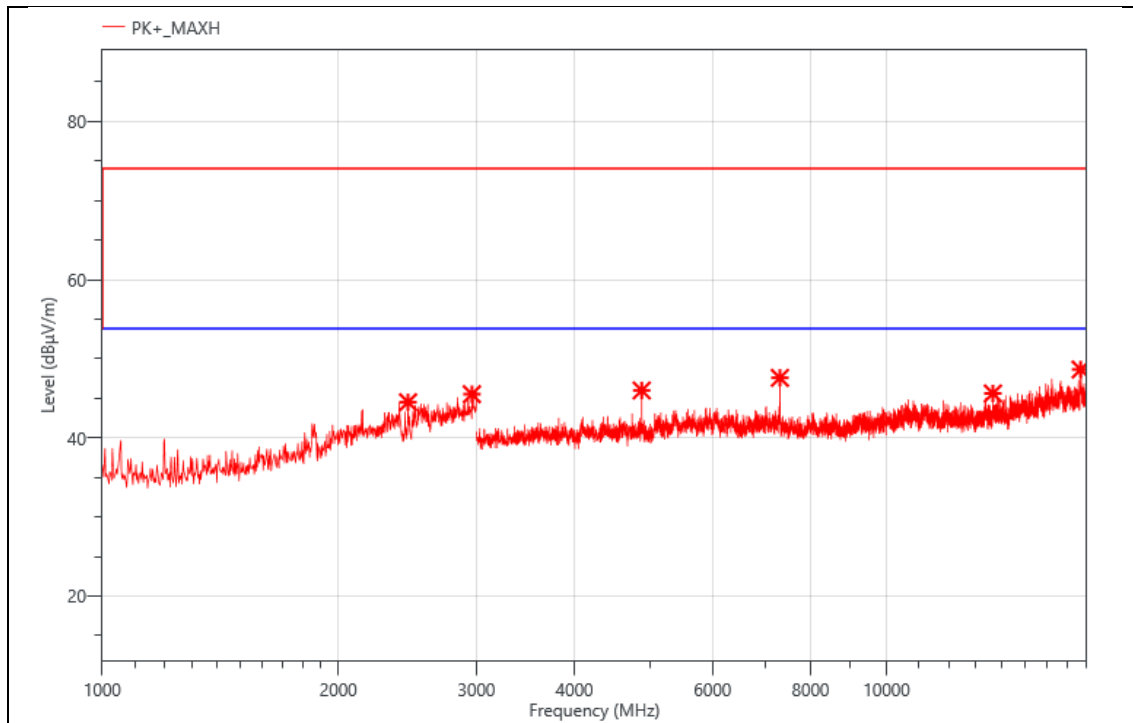
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2138.000	53.77	-9.05	44.72	74.00	29.28	PK+	H
2	2662.000	54.40	-8.66	45.74	74.00	28.26	PK+	H
3	2974.000	53.81	-7.09	46.72	74.00	27.28	PK+	H
4	4824.000	60.74	-11.47	49.27	74.00	24.73	PK+	H
5	7234.500	56.14	-8.13	48.01	74.00	25.99	PK+	H
6	17703.000	48.47	0.11	48.58	74.00	25.42	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11B-2437
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/4/22
T/A/P	22.2°C/51%/101Kpa

Test Standard	FCC Part 15 C 3m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-	1 GHz-3 GHz	PK+	1 MHz	Auto
FSV	Ant-3117-	3 GHz-18 GHz	PK+	1 MHz	Auto



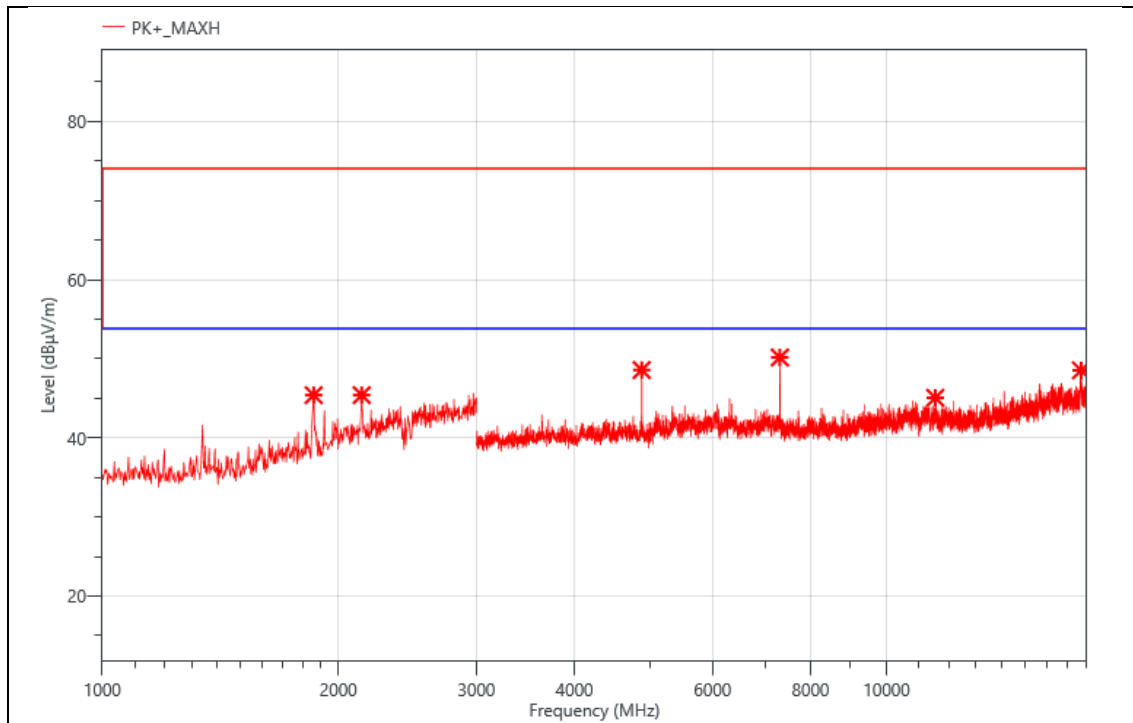
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2454.000	52.98	-8.47	44.51	74.00	29.49	PK+	H
2	2960.000	52.87	-7.34	45.53	74.00	28.47	PK+	H
3	4873.500	57.15	-11.15	46.00	74.00	28.00	PK+	H
4	7311.000	55.19	-7.6	47.59	74.00	26.41	PK+	H
5	13663.500	49.54	-3.92	45.62	74.00	28.38	PK+	H
6	17680.500	48.36	0.29	48.65	74.00	25.35	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11B-2437
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/4/22
T/A/P	22.2°C/51%/101Kpa

Test Standard	FCC Part 15 C 3m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-	1 GHz-3 GHz	PK+	1 MHz	Auto
FSV	Ant-3117-	3 GHz-18 GHz	PK+	1 MHz	Auto



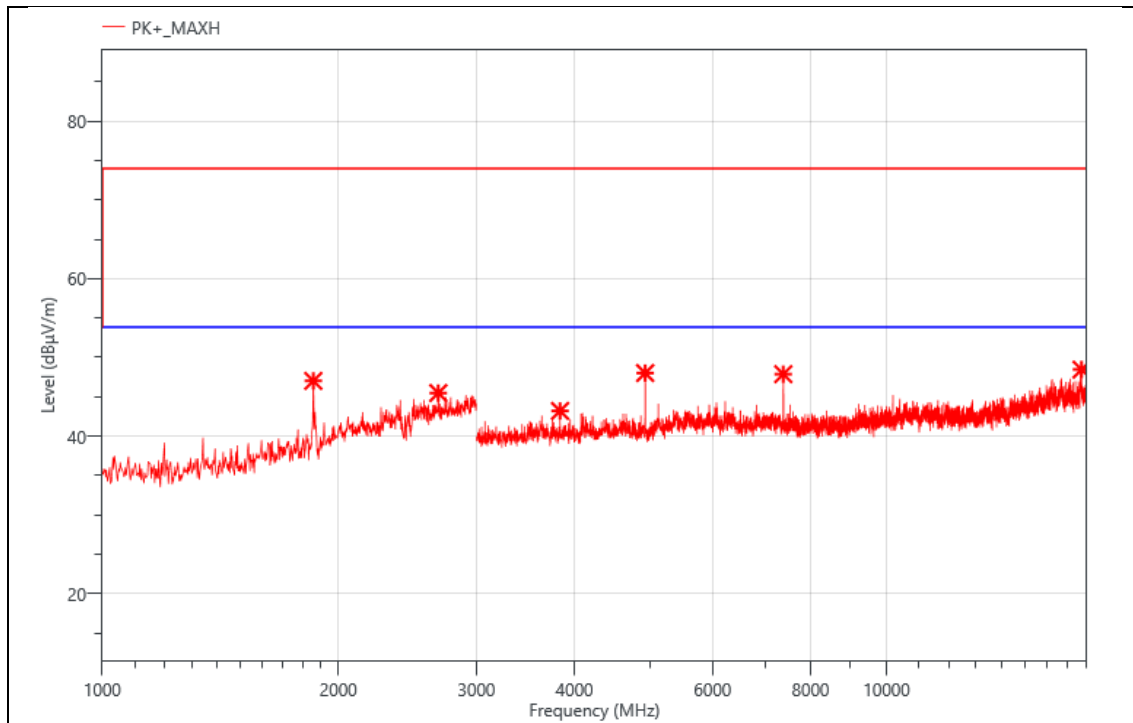
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	1860.000	55.83	-10.42	45.41	74.00	28.59	PK+	V
2	2142.000	54.46	-9.05	45.41	74.00	28.59	PK+	V
3	4873.500	59.73	-11.15	48.58	74.00	25.42	PK+	V
4	7309.500	57.72	-7.55	50.17	74.00	23.83	PK+	V
5	11538.000	49.14	-4.07	45.07	74.00	28.93	PK+	V
6	17703.000	48.43	0.11	48.54	74.00	25.46	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11B-2462
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/4/22
T/A/P	22.2°C/51%/101Kpa

Test Standard	FCC Part 15 C 3m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-	1 GHz-3 GHz	PK+	1 MHz	Auto
FSV	Ant-3117-	3 GHz-18 GHz	PK+	1 MHz	Auto



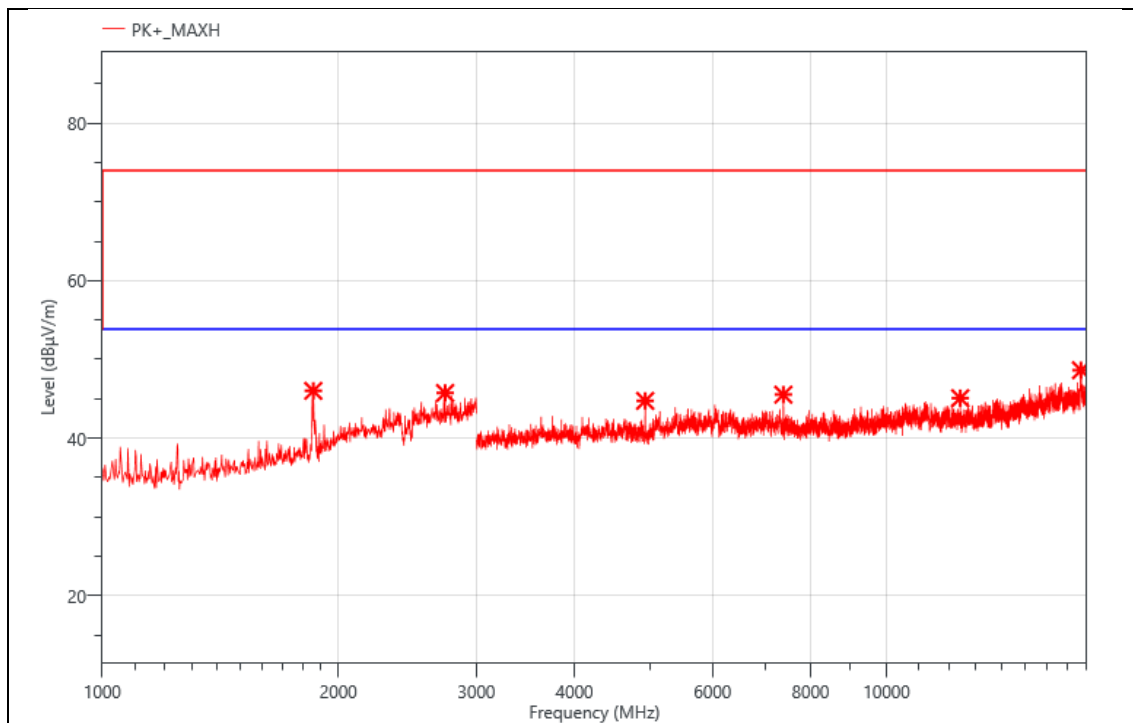
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	1858.000	57.44	-10.43	47.01	74.00	26.99	PK+	V
2	2682.000	53.80	-8.33	45.47	74.00	28.53	PK+	V
3	3834.000	56.66	-13.46	43.20	74.00	30.80	PK+	V
4	4923.000	59.12	-11.11	48.01	74.00	25.99	PK+	V
5	7384.500	56.18	-8.31	47.87	74.00	26.13	PK+	V
6	17727.000	48.81	-0.36	48.45	74.00	25.55	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11B-2462
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/4/22
T/A/P	22.2°C/51%/101Kpa

Test Standard	FCC Part 15 C 3m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-	1 GHz-3 GHz	PK+	1 MHz	Auto
FSV	Ant-3117-	3 GHz-18 GHz	PK+	1 MHz	Auto



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	1858.000	56.43	-10.43	46.00	74.00	28.00	PK+	H
2	2736.000	54.13	-8.4	45.73	74.00	28.27	PK+	H
3	4923.000	55.84	-11.11	44.73	74.00	29.27	PK+	H
4	7386.000	53.82	-8.3	45.52	74.00	28.48	PK+	H
5	12415.500	49.85	-4.78	45.07	74.00	28.93	PK+	H
6	17700.000	48.44	0.18	48.62	74.00	25.38	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Note:

1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

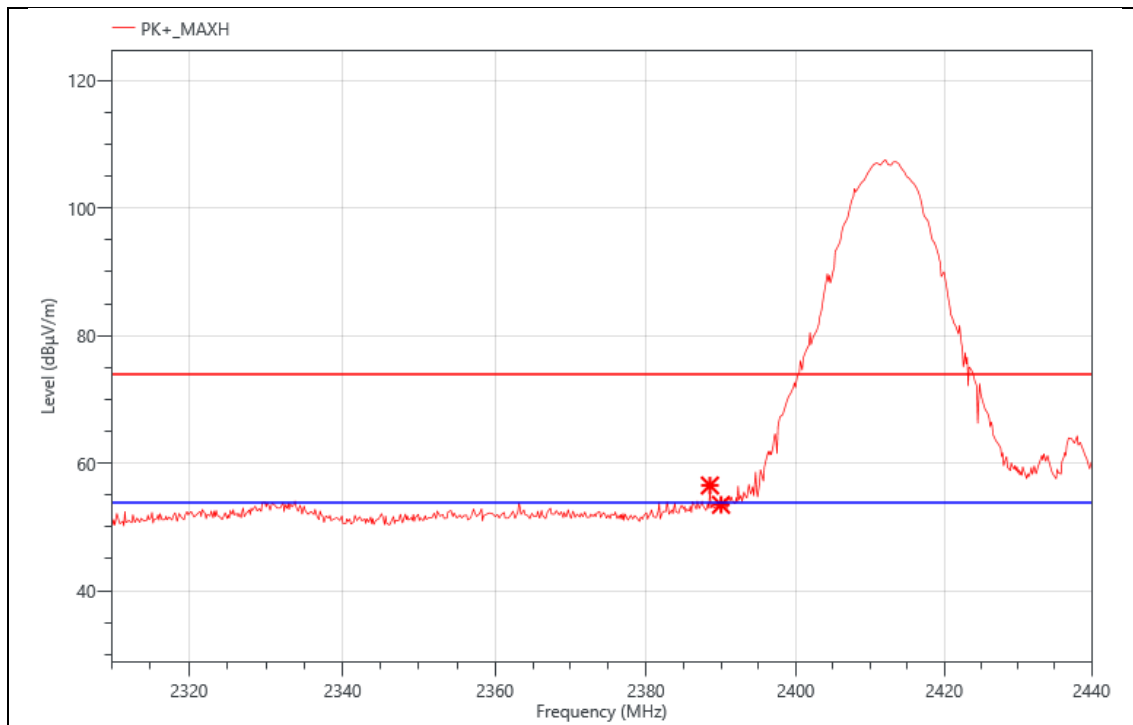
For 9KHz to 30MHz and above 18 GHz, a pre-scan was performed, and the result was 20 dB lower than the limit line, the test data was not shown in the report.

Band Edge

All modes have been tested and the worst result as bellow:

Mode:	11B-2412
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/4/22
T/A/P	22.2°C/51%/101Kpa

Test Standard	FCC Part 15 C 3m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-	2.310 GHz-2.440	PK+	1 MHz	Auto



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2388.520	33.80	22.69	56.49	74.00	17.51	PK+	H
2	2390.000	30.74	22.72	53.46	74.00	20.54	PK+	H

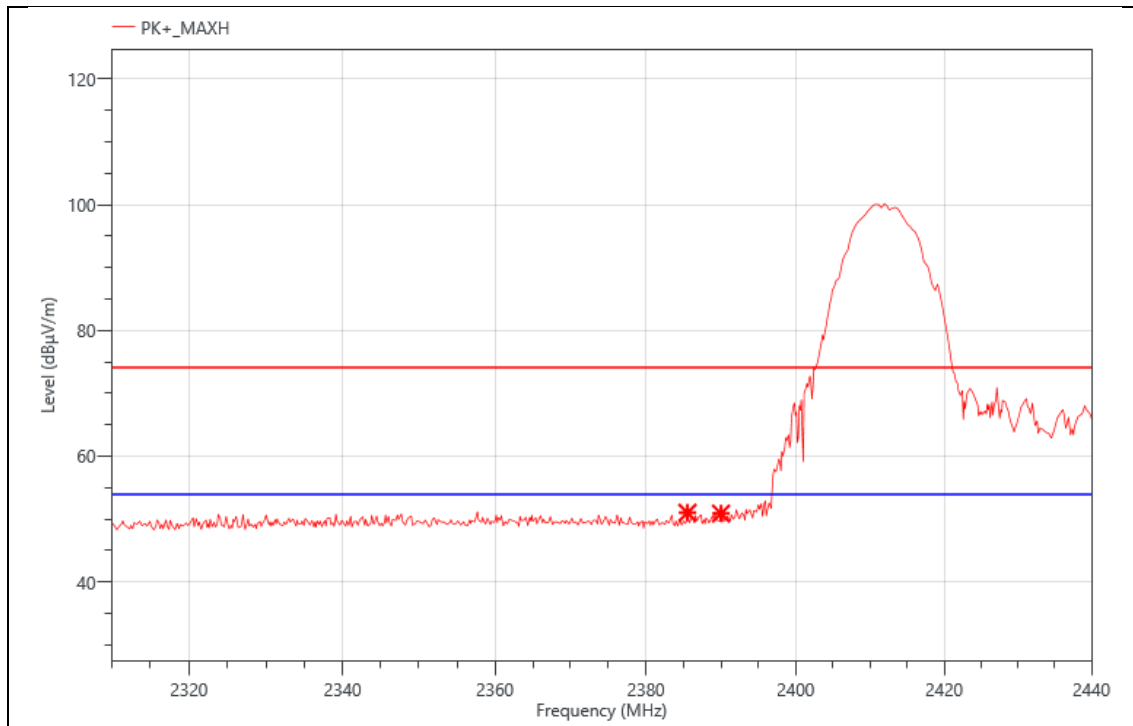
Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2388.520	26.80	22.69	49.49	53.90	4.41	AVG	H	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11B-2412
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/4/22
T/A/P	22.2°C/51%/101Kpa

Test Standard	FCC Part 15 C 3m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-	2.310 GHz-2.440	PK+	1 MHz	Auto



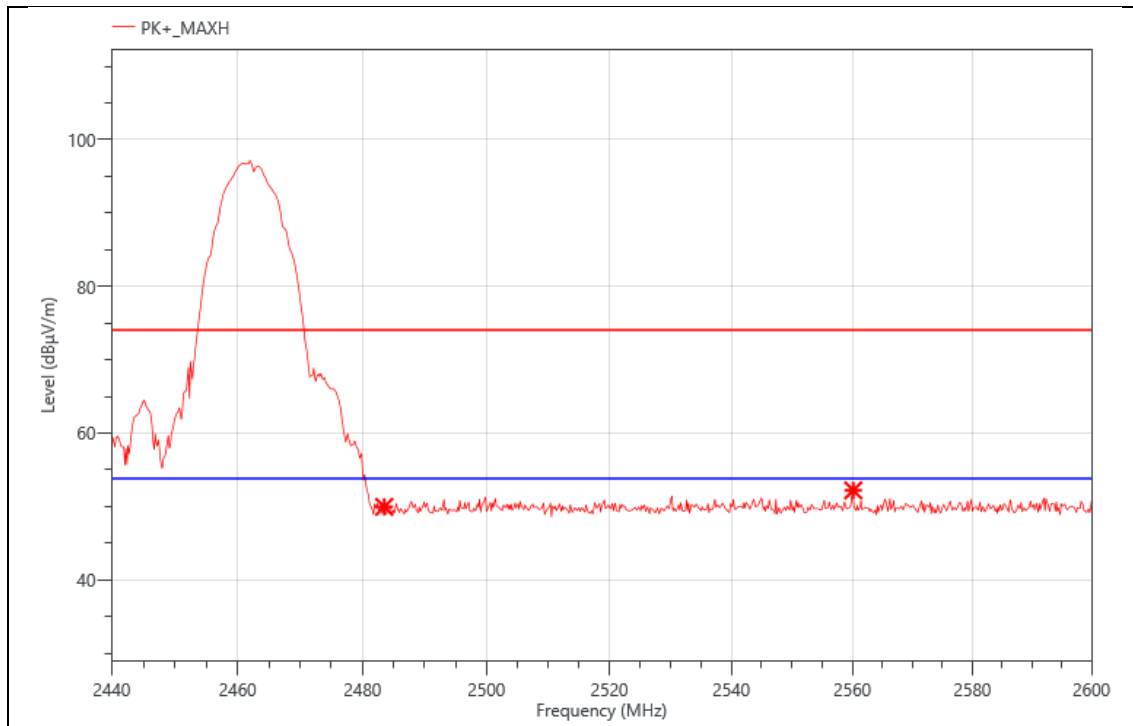
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2385.530	28.38	22.63	51.01	74.00	22.99	PK+	V
2	2390.000	28.15	22.72	50.87	74.00	23.13	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11B-2462
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/4/22
T/A/P	22.2°C/51%/101Kpa

Test Standard	FCC Part 15 C 3m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-	2.44 GHz-2.6 GHz	AVG	1 MHz	1 s



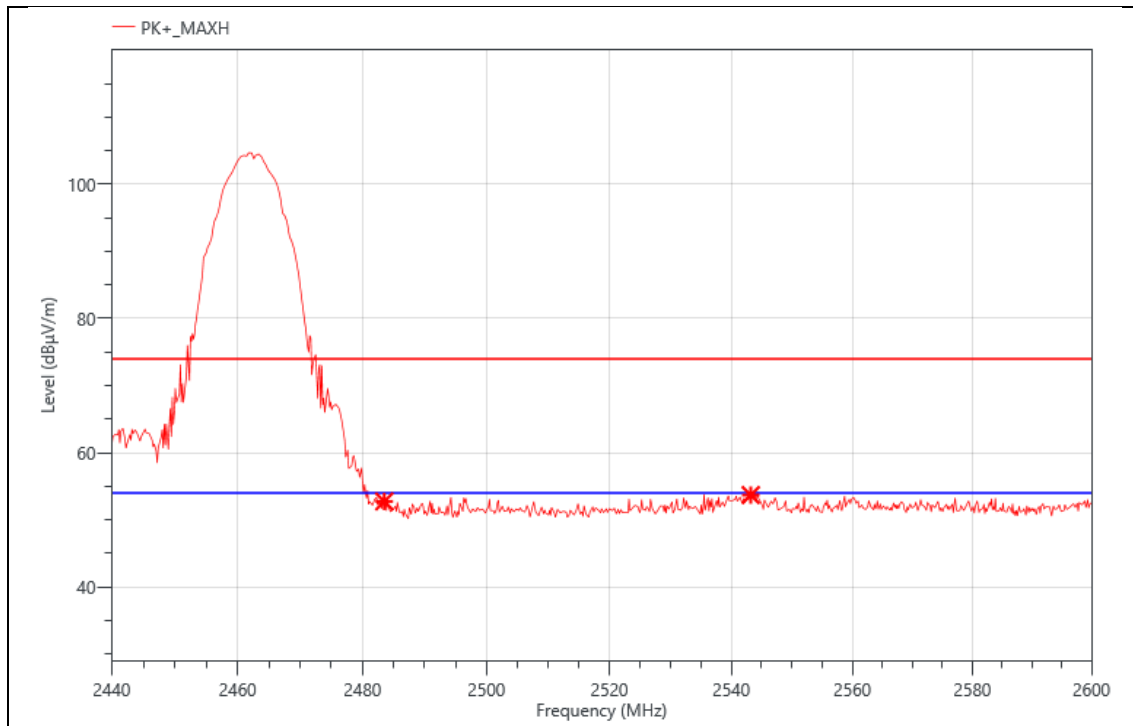
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	26.81	23.15	49.96	74.00	24.04	PK+	V
2	2560.160	28.95	23.26	52.21	74.00	21.79	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11B-2462
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/4/22
T/A/P	22.2°C/51%/101Kpa

Test Standard	FCC Part 15 C 3m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-	2.44 GHz-2.6 GHz	AVG	1 MHz	1 s



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	29.58	23.15	52.73	74.00	21.27	PK+	H
2	2543.200	30.46	23.22	53.68	74.00	20.32	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Note:

1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer 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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass

10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a)

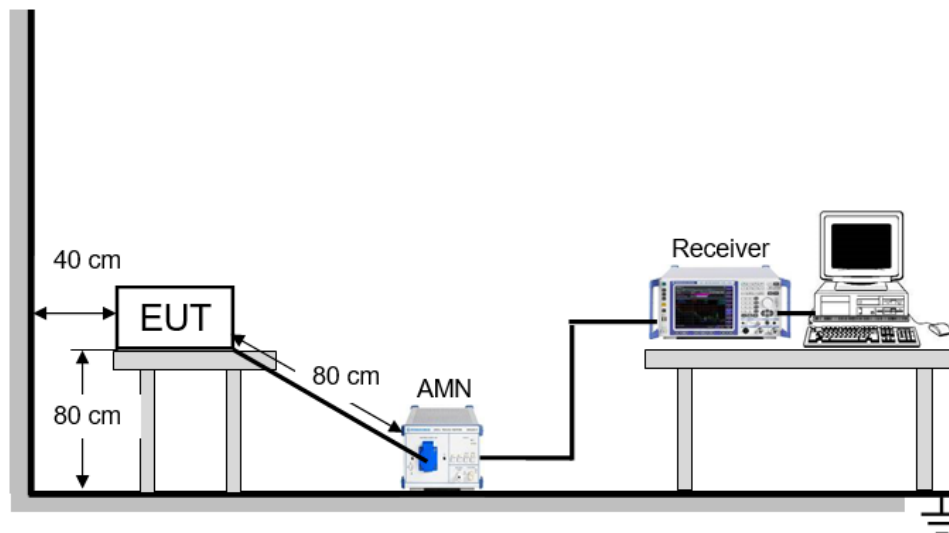
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2020. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

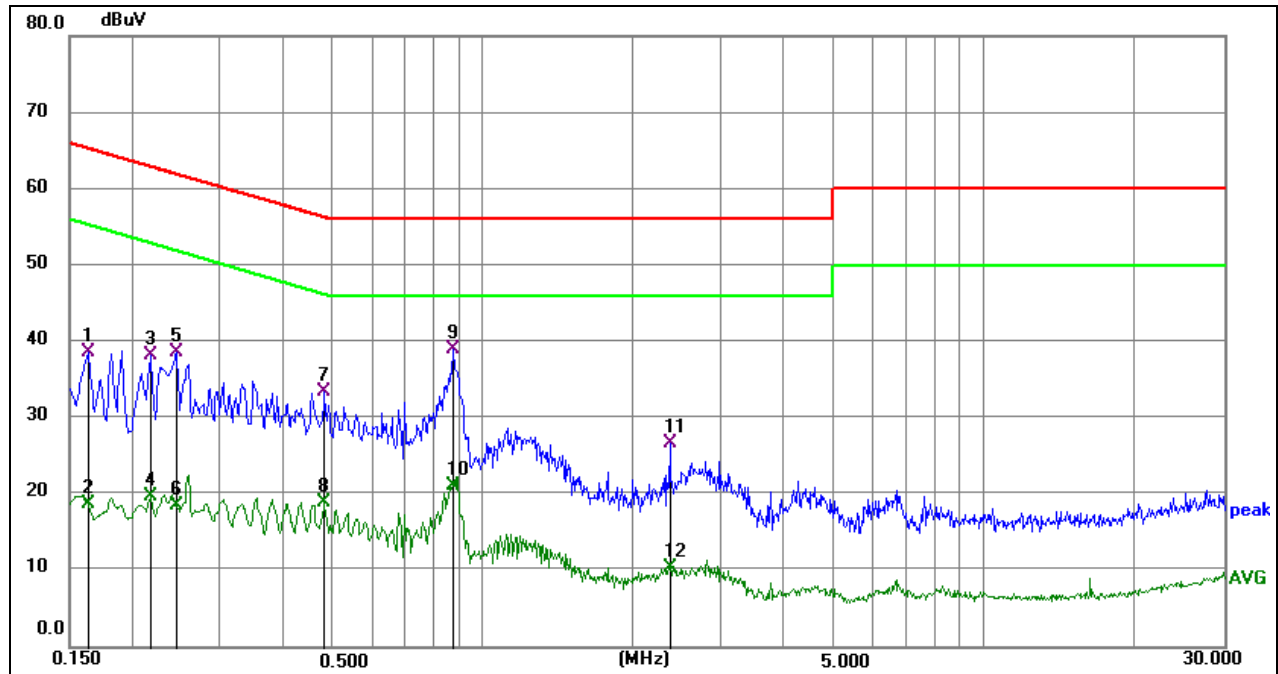
The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

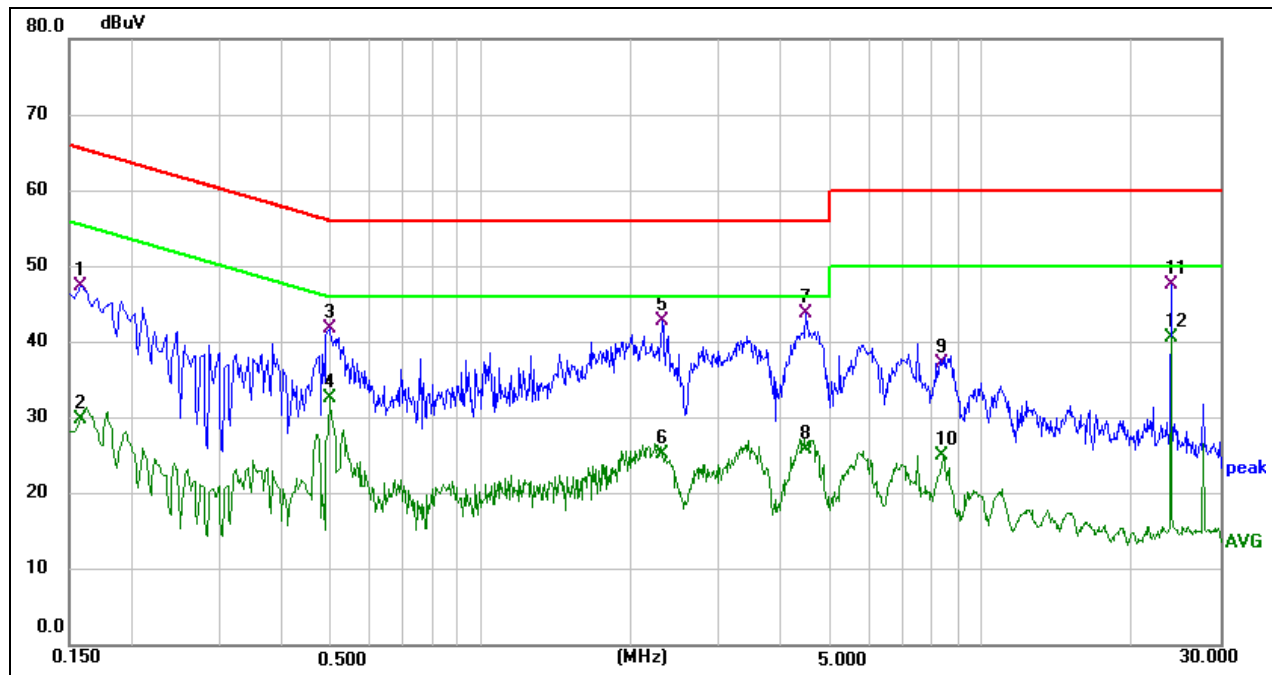
Temperature	23°C	Relative Humidity	50%
Atmosphere Pressure	101kPa	Voltage	AC 230V/50Hz

TEST RESULTS

Phase: N

Mode: WIFI

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1635	29.08	9.59	38.67	65.28	-26.61	QP
2	0.1635	9.16	9.59	18.75	55.28	-36.53	AVG
3	0.2175	28.63	9.57	38.20	62.91	-24.71	QP
4	0.2175	10.12	9.57	19.69	52.91	-33.22	AVG
5	0.2445	29.02	9.54	38.56	61.94	-23.38	QP
6	0.2445	8.93	9.54	18.47	51.94	-33.47	AVG
7	0.4830	23.80	9.57	33.37	56.29	-22.92	QP
8	0.4830	9.30	9.57	18.87	46.29	-27.42	AVG
9	0.8745	29.38	9.58	38.96	56.00	-17.04	QP
10	0.8745	11.64	9.58	21.22	46.00	-24.78	AVG
11	2.3640	17.12	9.64	26.76	56.00	-29.24	QP
12	2.3640	0.72	9.64	10.36	46.00	-35.64	AVG



Phase: L1

Mode: WIFI

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.1580	37.52	9.96	47.48	65.57	-18.09	QP	
2	0.1580	19.96	9.96	29.92	55.57	-25.65	AVG	
3	0.4980	31.18	10.60	41.78	56.03	-14.25	QP	
4	0.4980	22.09	10.60	32.69	46.03	-13.34	AVG	
5	2.2980	33.23	9.54	42.77	56.00	-13.23	QP	
6	2.2980	15.79	9.54	25.33	46.00	-20.67	AVG	
7	4.4620	34.25	9.63	43.88	56.00	-12.12	QP	
8	4.4620	16.20	9.63	25.83	46.00	-20.17	AVG	
9	8.3979	27.45	9.70	37.15	60.00	-22.85	QP	
10	8.3979	15.28	9.70	24.98	50.00	-25.02	AVG	
11	24.0060	37.45	10.16	47.61	60.00	-12.39	QP	
12	24.0060	30.38	10.16	40.54	50.00	-9.46	AVG	

Note: 1. Result = Reading + Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

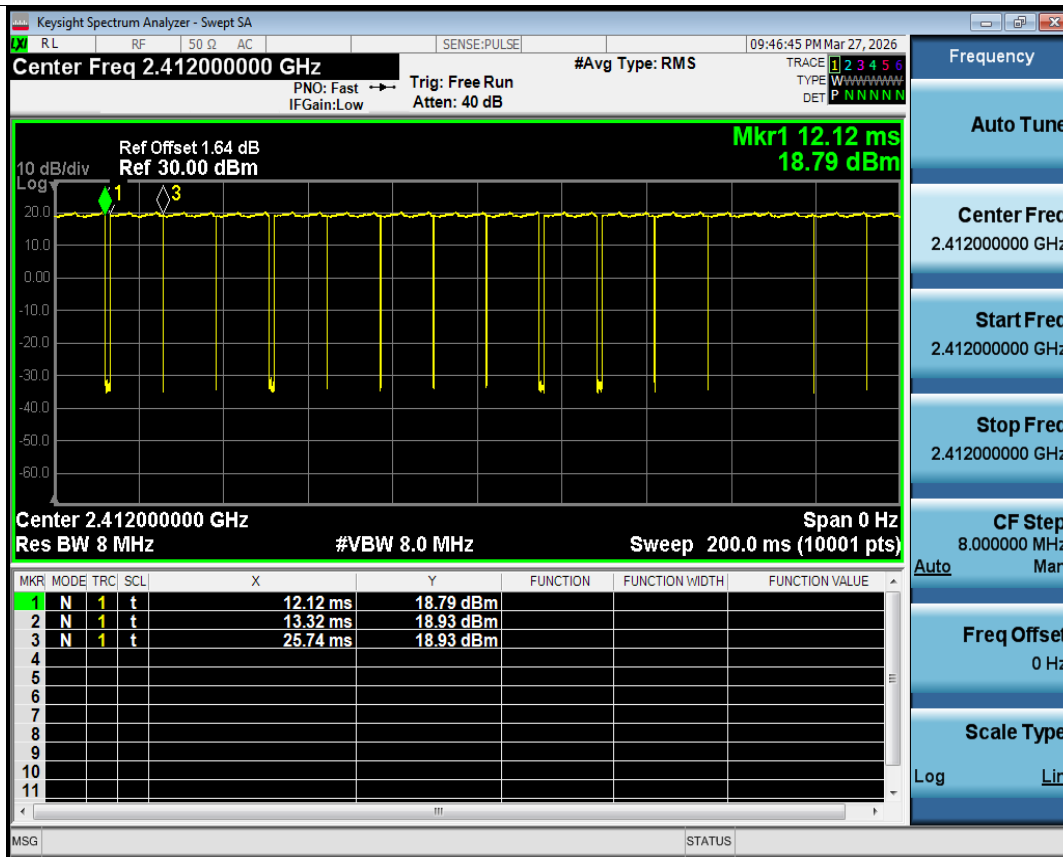
Note: All the modes have been tested, only the worst data was recorded in the report.

11. TEST DATA - Appendix A

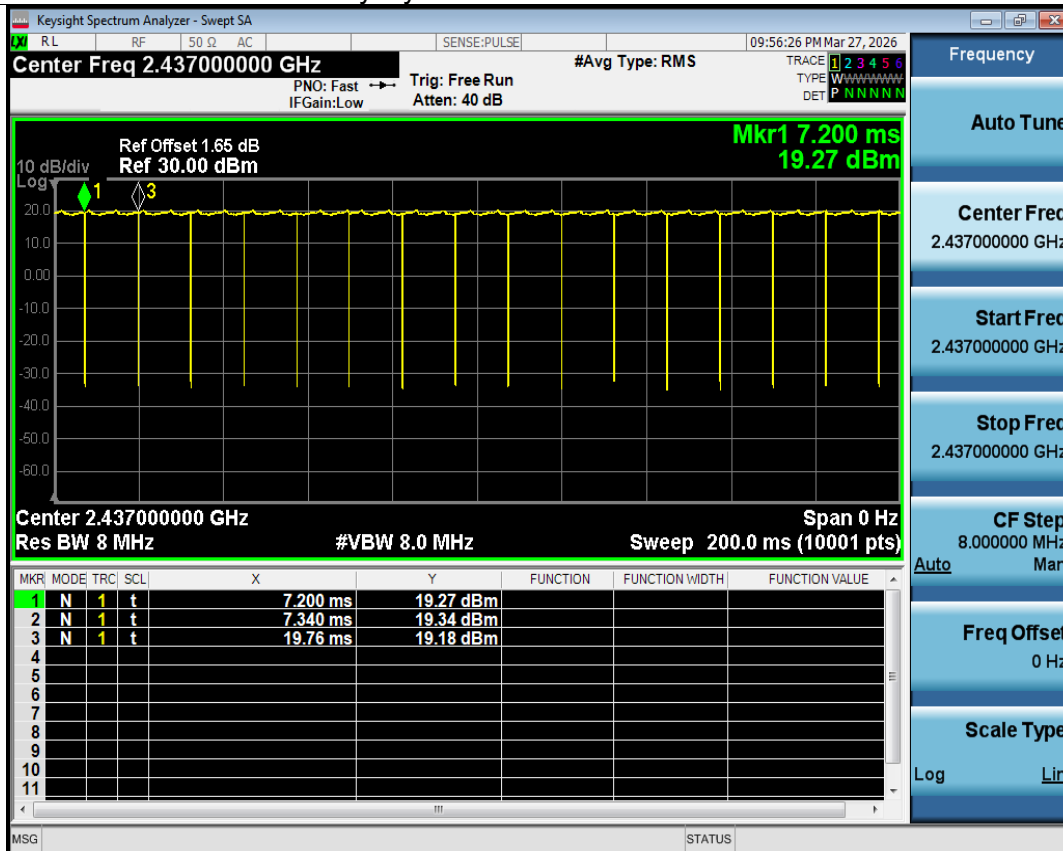
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	91.19	0.4	0.08
NVNT	b	2437	Ant1	98.89	0.05	0.08
NVNT	b	2462	Ant1	99.52	0.02	0.08
NVNT	g	2412	Ant1	92.39	0.34	0.48

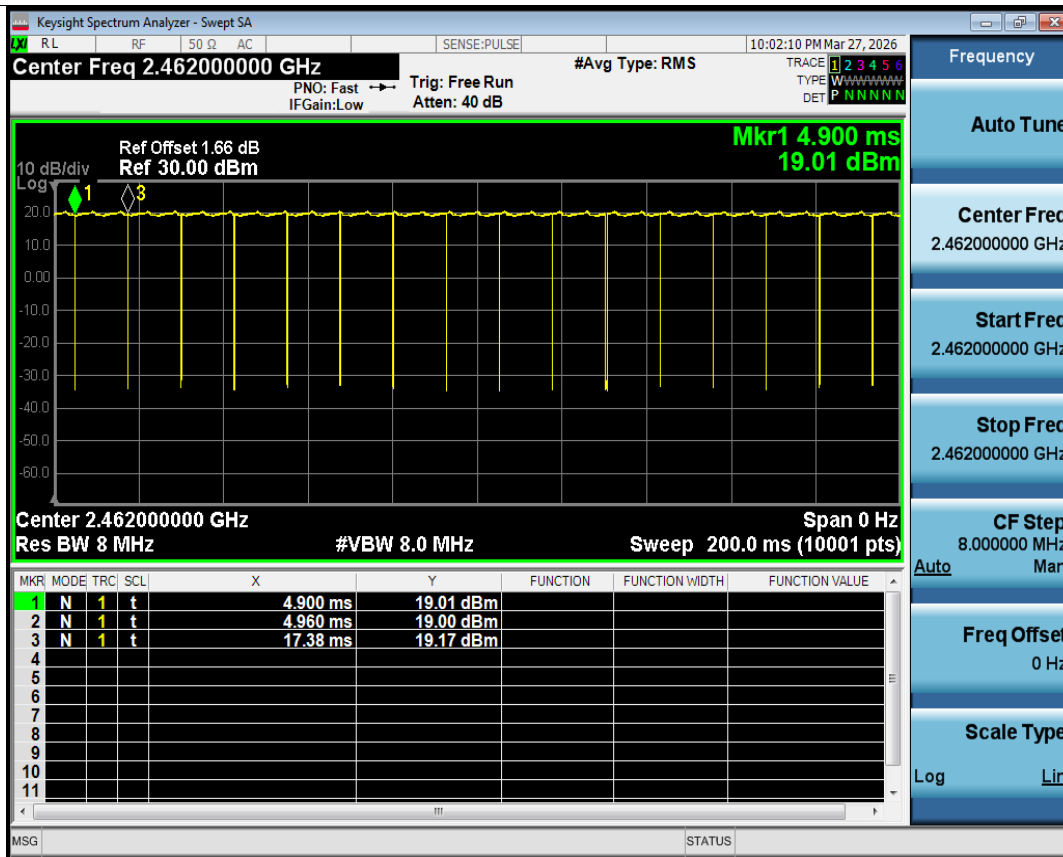
NVNT	g	2437	Ant1	97.82	0.1	0.48
NVNT	g	2462	Ant1	92.39	0.34	0.48
NVNT	n20	2412	Ant1	96	0.18	0.52
NVNT	n20	2437	Ant1	97.26	0.12	0.52
NVNT	n20	2462	Ant1	94.3	0.25	0.52



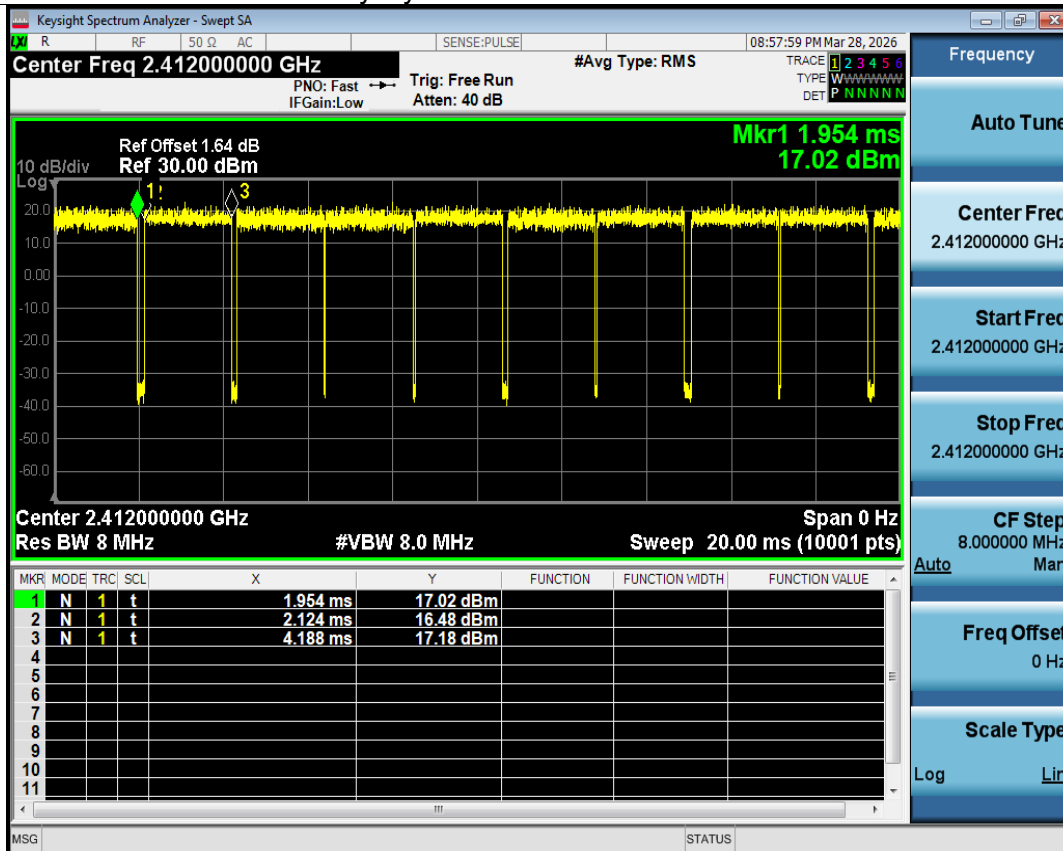
Duty Cycle NVNT b 2412MHz Ant1



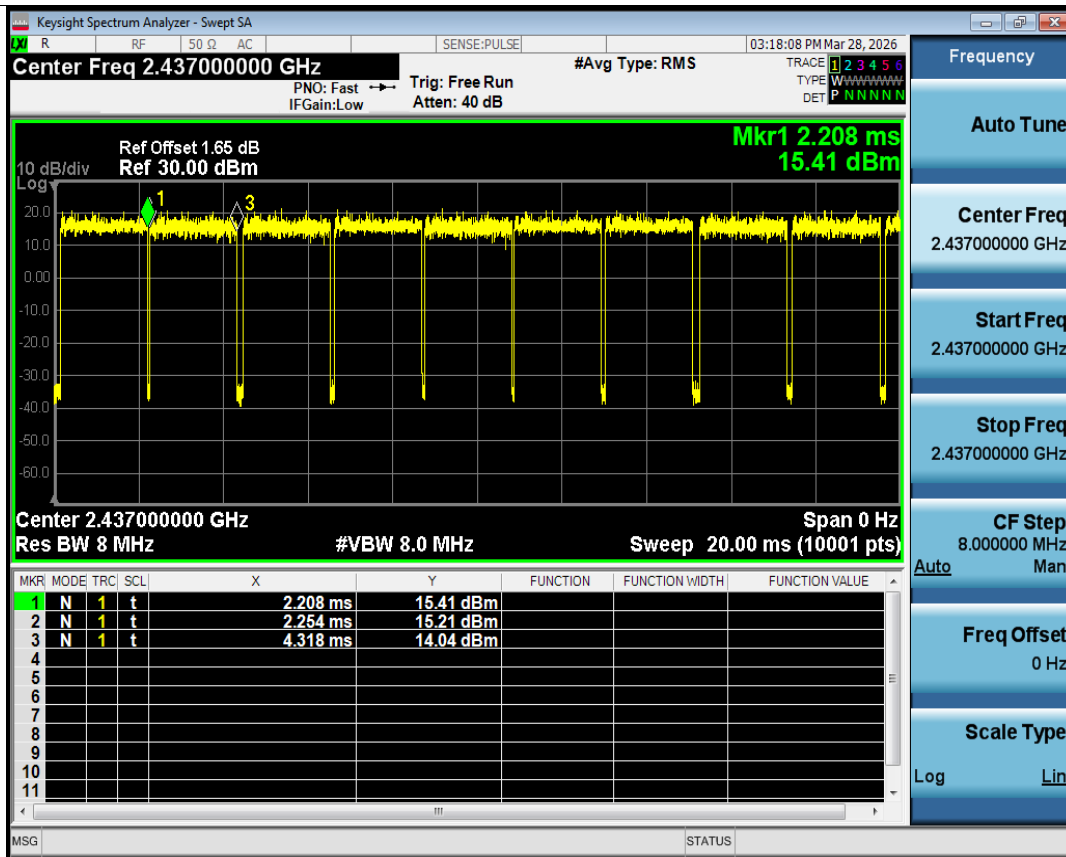
Duty Cycle NVNT b 2437MHz Ant1



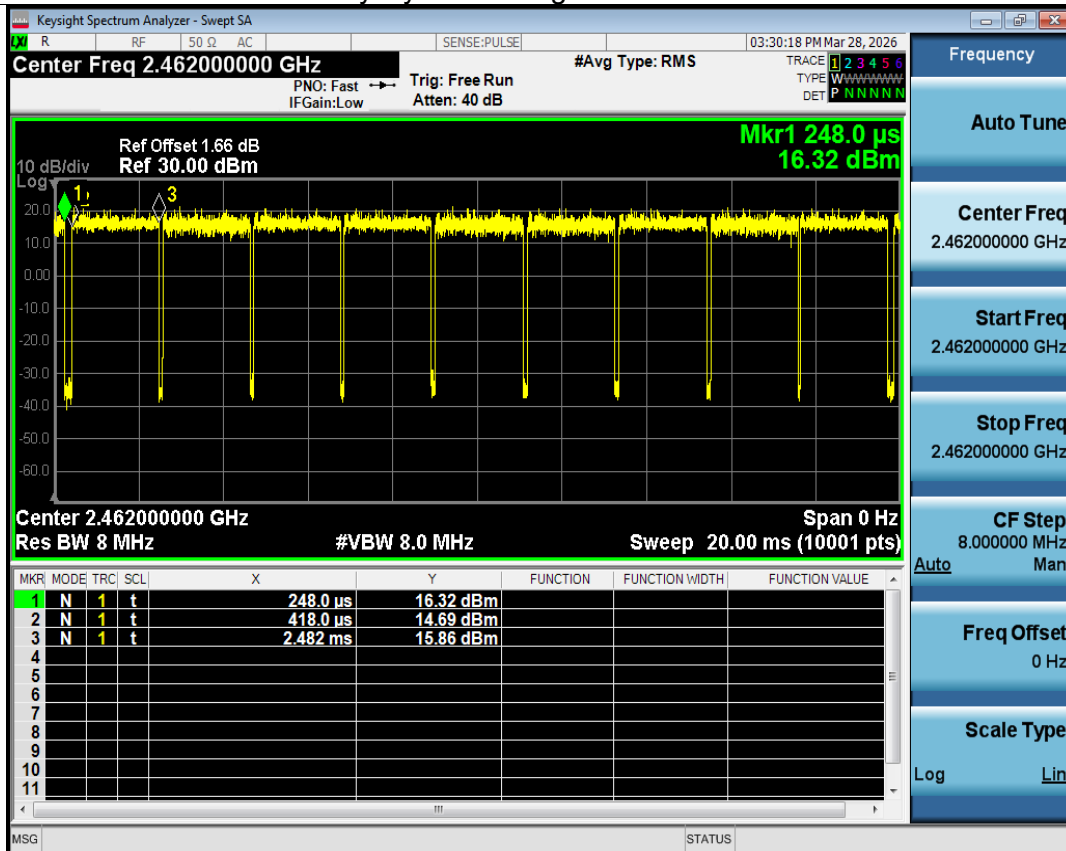
Duty Cycle NVNT b 2462MHz Ant1



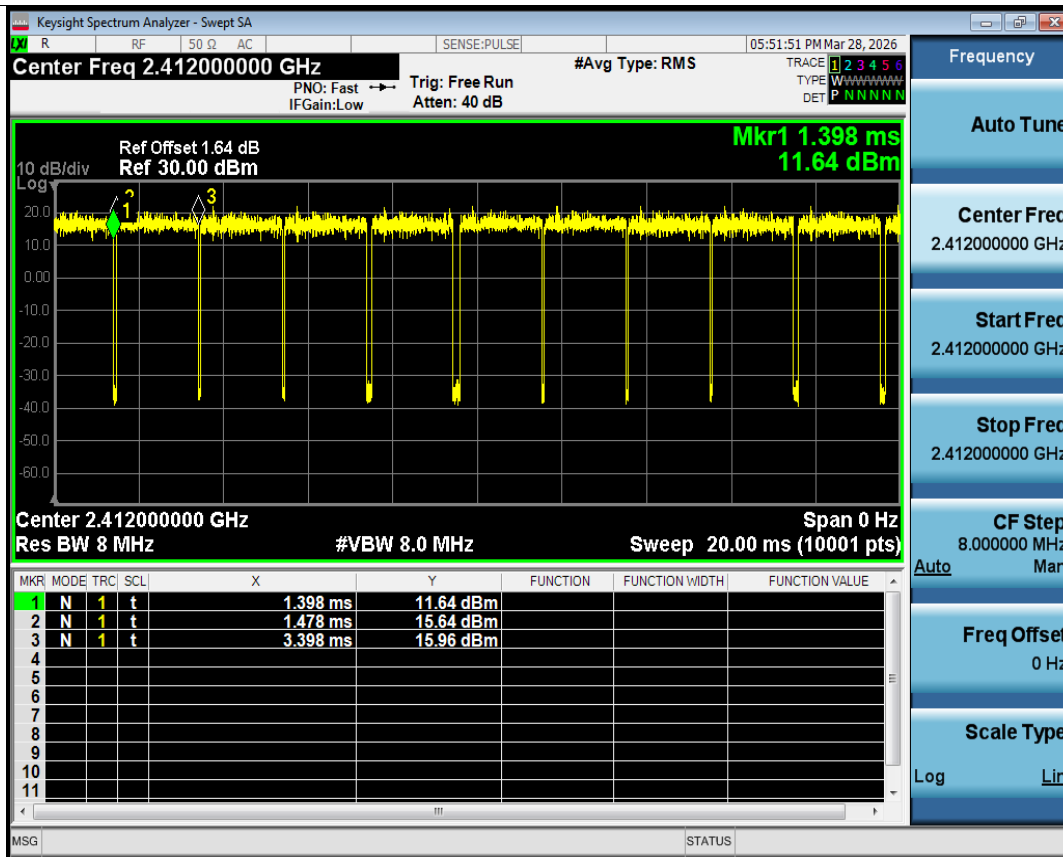
Duty Cycle NVNT g 2412MHz Ant1



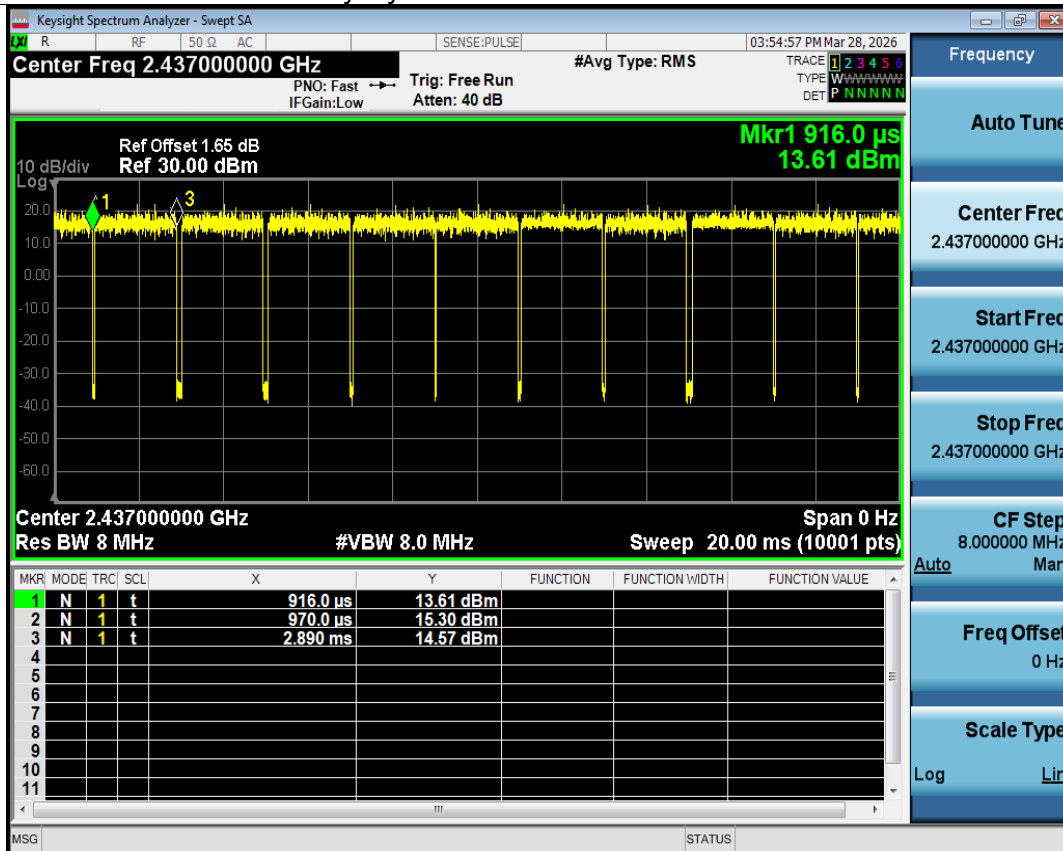
Duty Cycle NVNT g 2437MHz Ant1



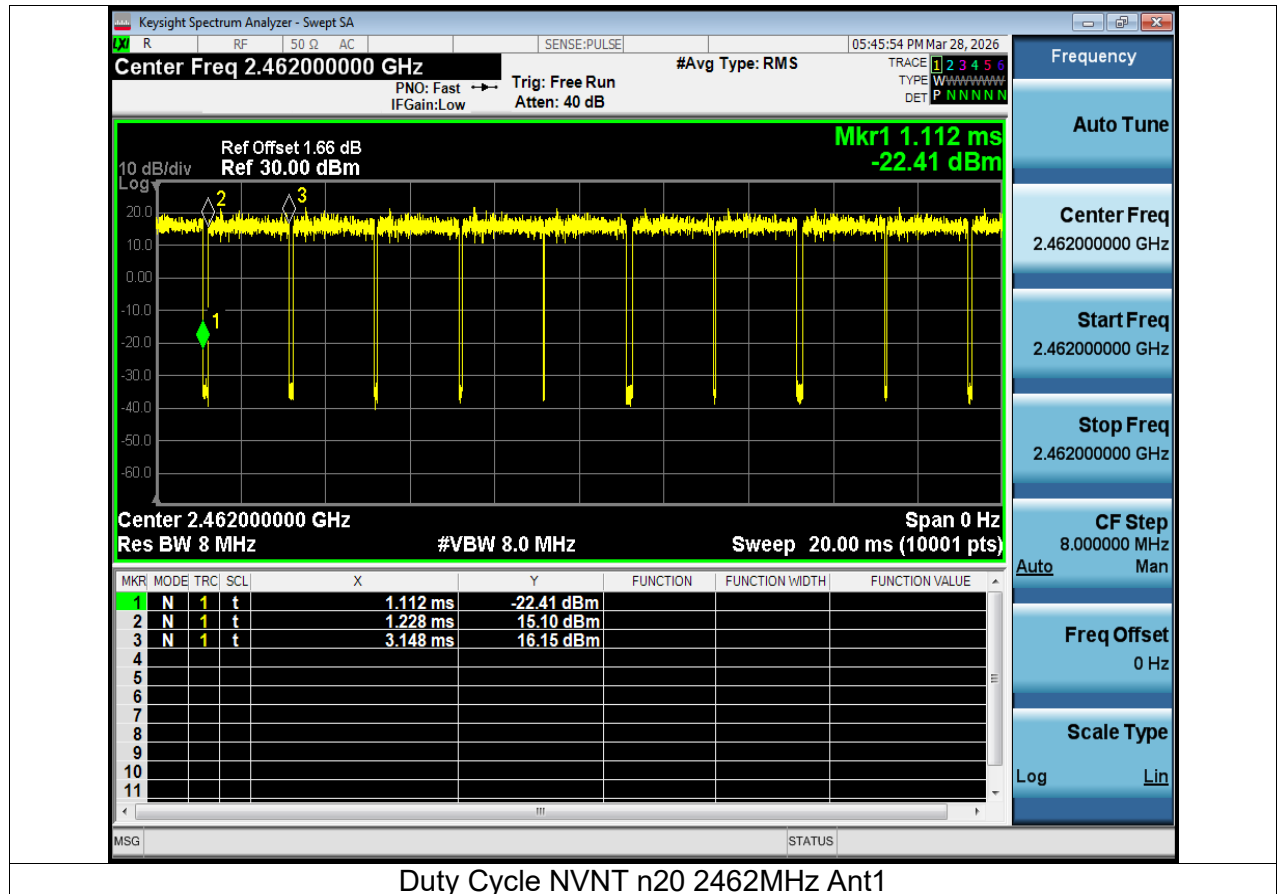
Duty Cycle NVNT g 2462MHz Ant1



Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2437MHz Ant1



Maximum Average Conducted Output Power

Condi tion	Mod e	Frequen cy (MHz)	Anten na	Conduct ed Power (dBm)	Total Conduct ed Power (dBm)	Total Conduct ed Power (W)	Limit Conducted(d Bm)	Verdi ct
NVNT	b	2412	Ant1	15.85	15.85	0.03846	30	Pass
NVNT	b	2437	Ant1	15.97	15.97	0.03954	30	Pass
NVNT	b	2462	Ant1	15.96	15.96	0.03945	30	Pass
NVNT	g	2412	Ant1	15.65	15.65	0.03673	30	Pass
NVNT	g	2437	Ant1	14.16	14.16	0.02606	30	Pass
NVNT	g	2462	Ant1	14.16	14.16	0.02606	30	Pass
NVNT	n20	2412	Ant1	14.74	14.74	0.02979	30	Pass
NVNT	n20	2437	Ant1	14.5	14.5	0.02818	30	Pass
NVNT	n20	2462	Ant1	14.62	14.62	0.02897	30	Pass

Note: Measurement using a power meter (PM), USE Method AVGPM-G
 Because the measurement is made only during the ON time of the
 transmitter, no duty cycle correction factor is required.

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.548	0.5	Pass
NVNT	b	2437	Ant1	8.57	0.5	Pass
NVNT	b	2462	Ant1	8.086	0.5	Pass
NVNT	g	2412	Ant1	16.36	0.5	Pass
NVNT	g	2437	Ant1	16.35	0.5	Pass
NVNT	g	2462	Ant1	16.36	0.5	Pass
NVNT	n20	2412	Ant1	17.57	0.5	Pass
NVNT	n20	2437	Ant1	17.57	0.5	Pass
NVNT	n20	2462	Ant1	17.56	0.5	Pass



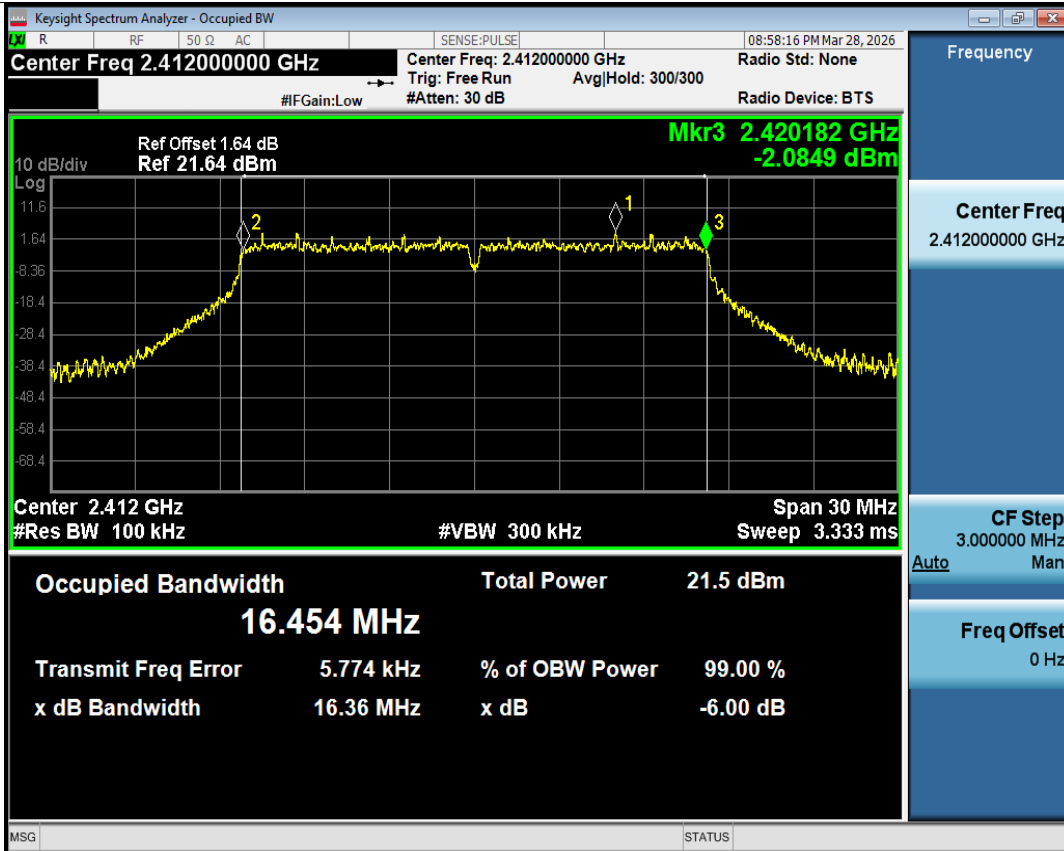
-6dB Bandwidth NVNT b 2412MHz Ant1



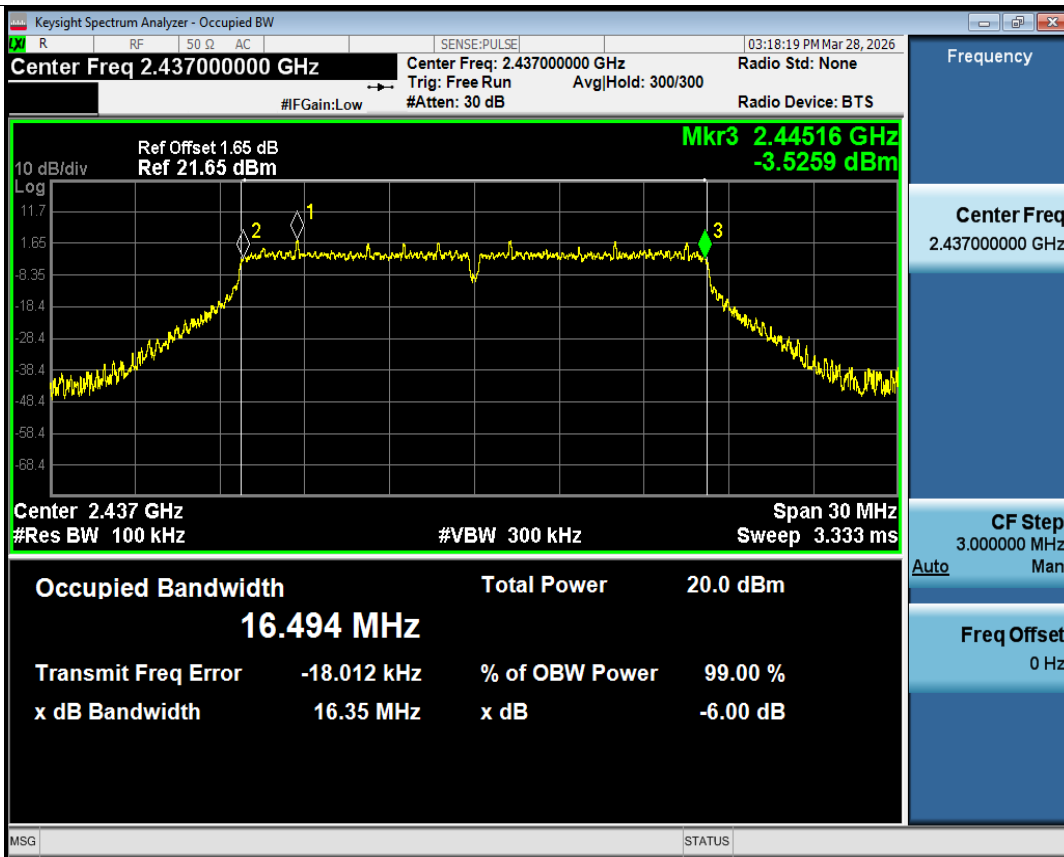
-6dB Bandwidth NVNT b 2437MHz Ant1



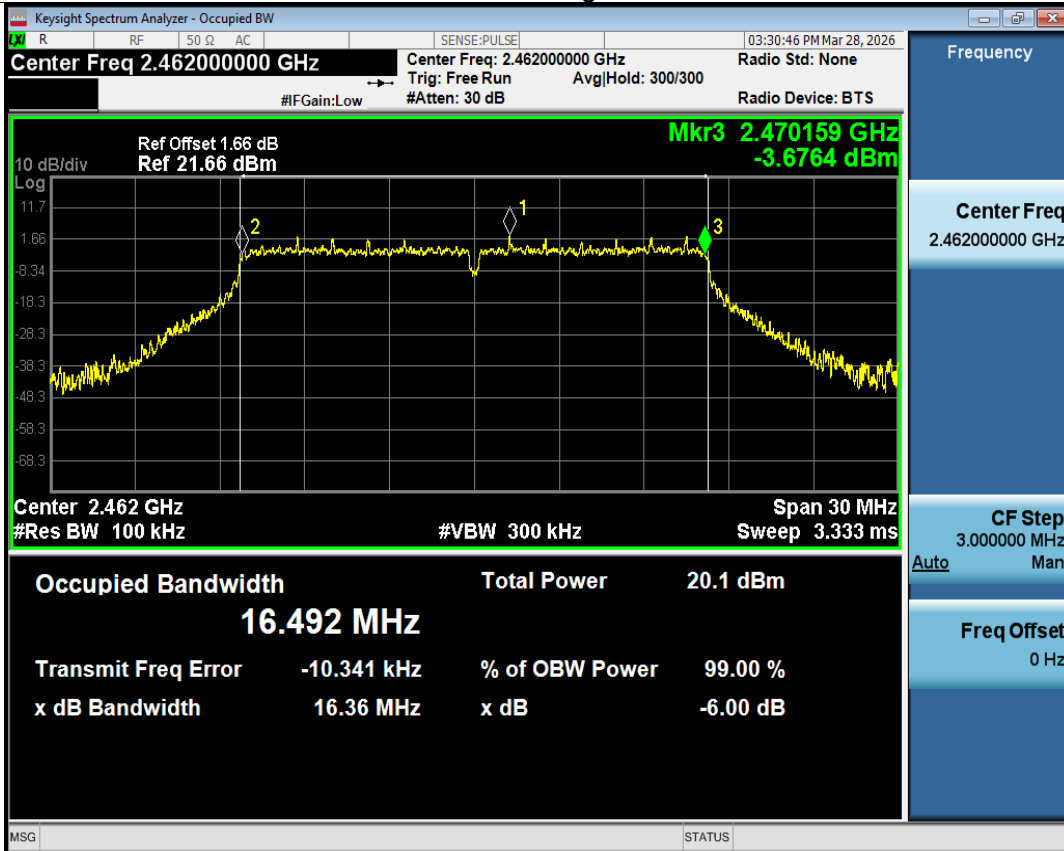
-6dB Bandwidth NVNT b 2462MHz Ant1



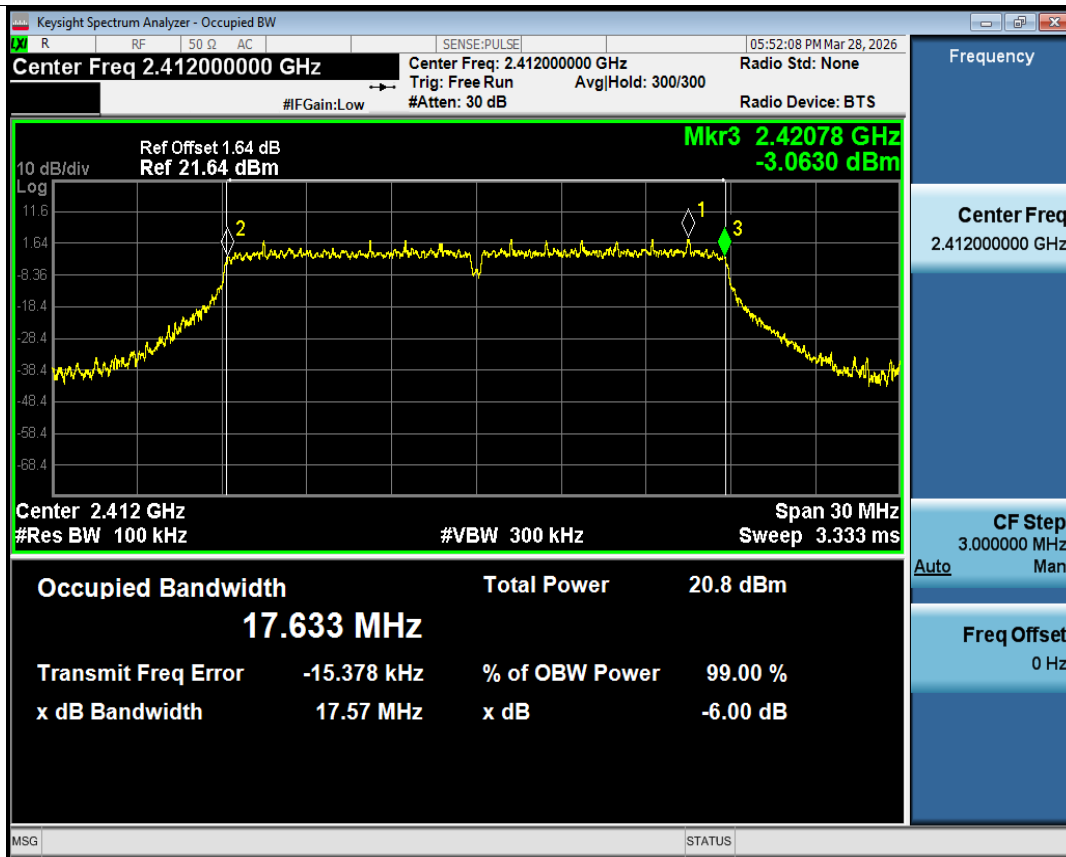
-6dB Bandwidth NVNT g 2412MHz Ant1



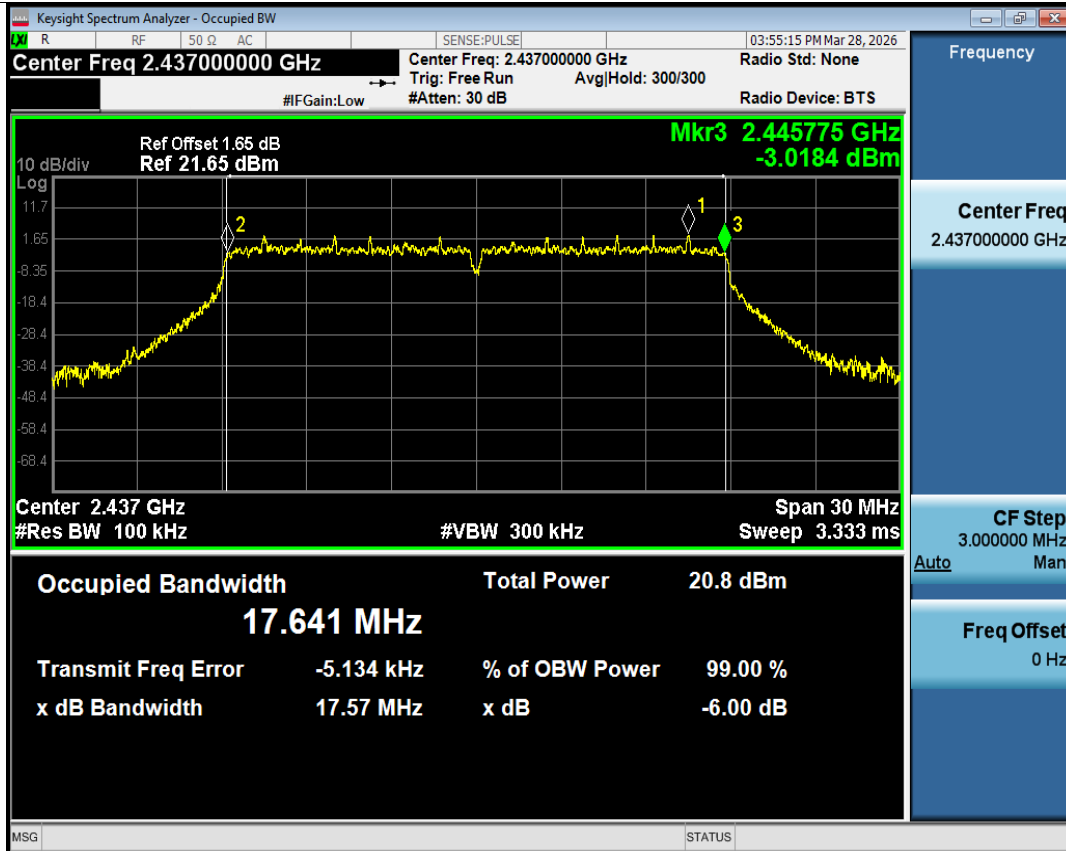
-6dB Bandwidth NVNT g 2437MHz Ant1



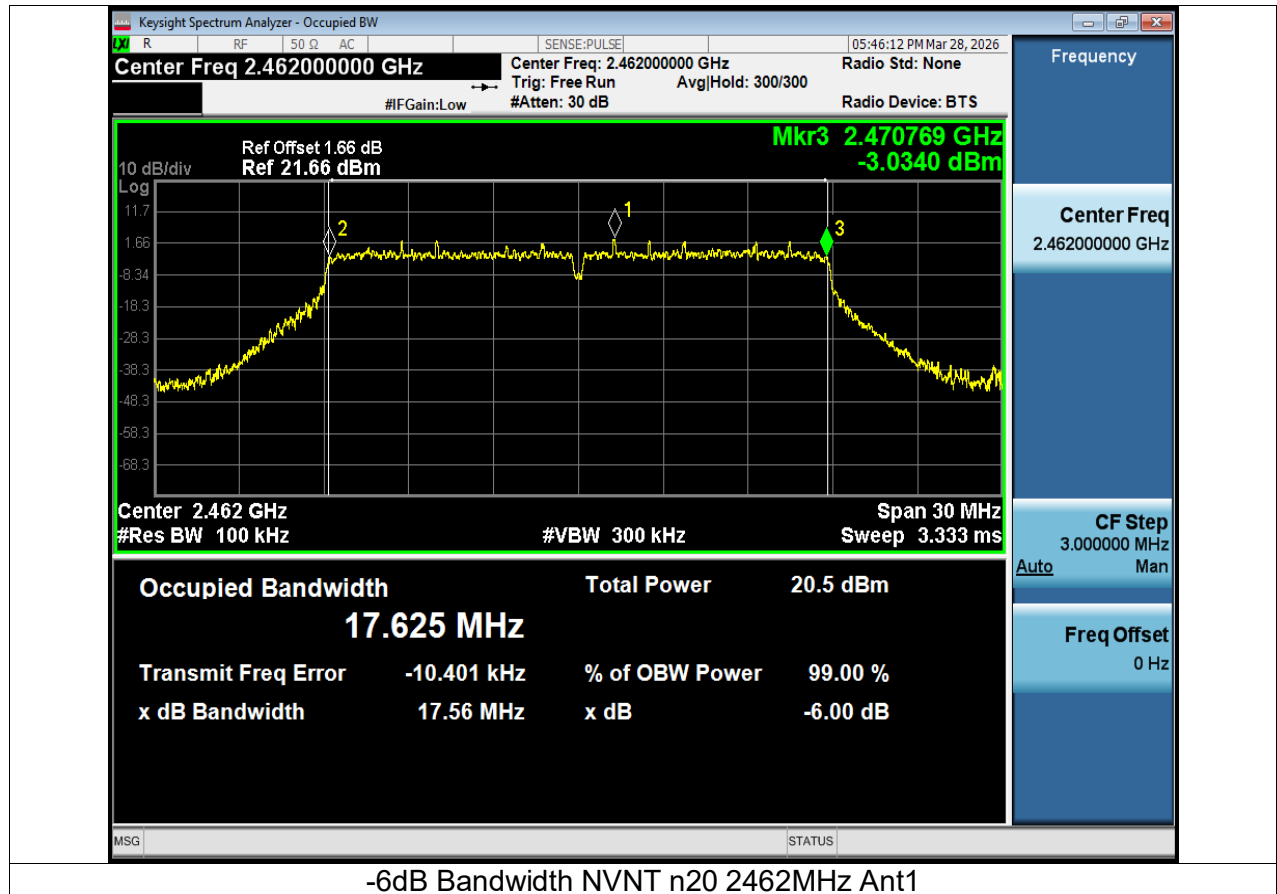
-6dB Bandwidth NVNT g 2462MHz Ant1



-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1

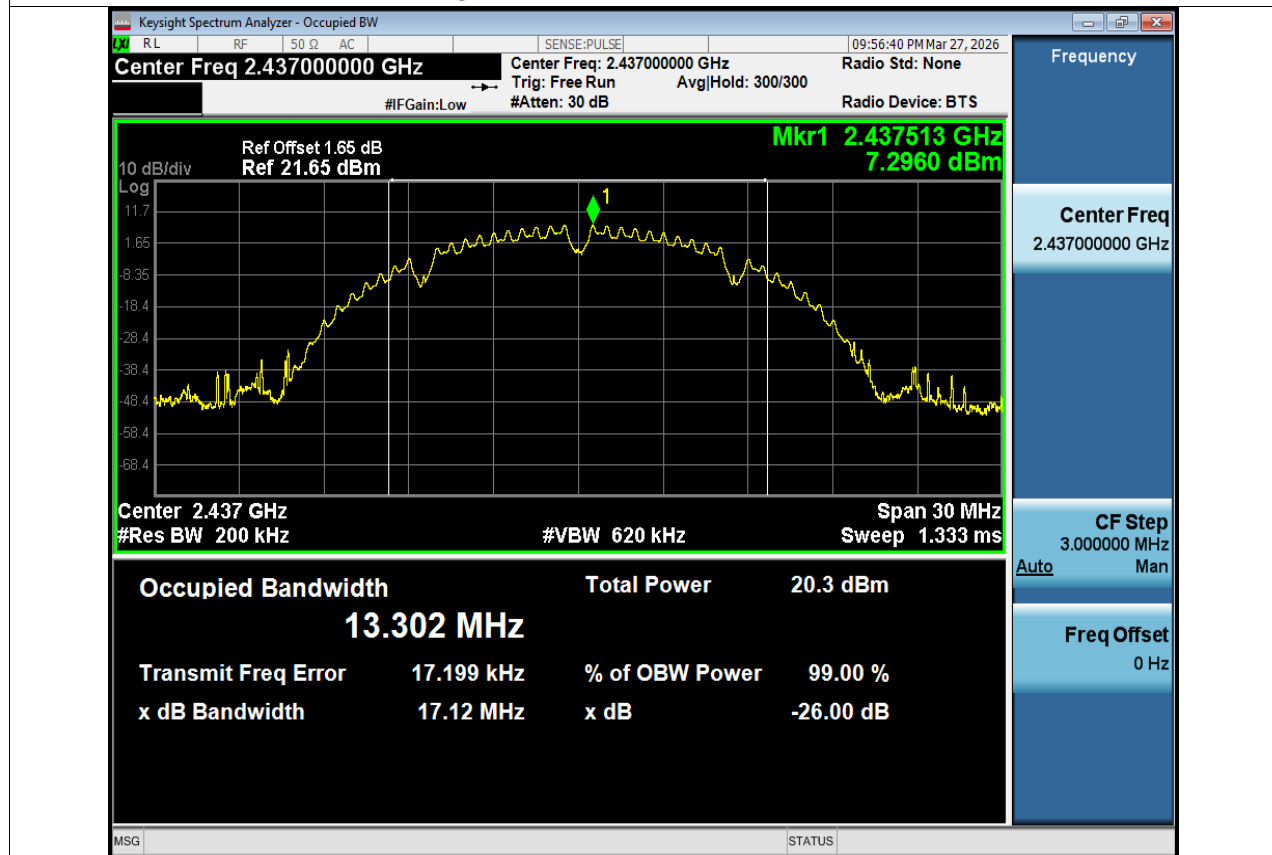


Occupied Channel Bandwidth

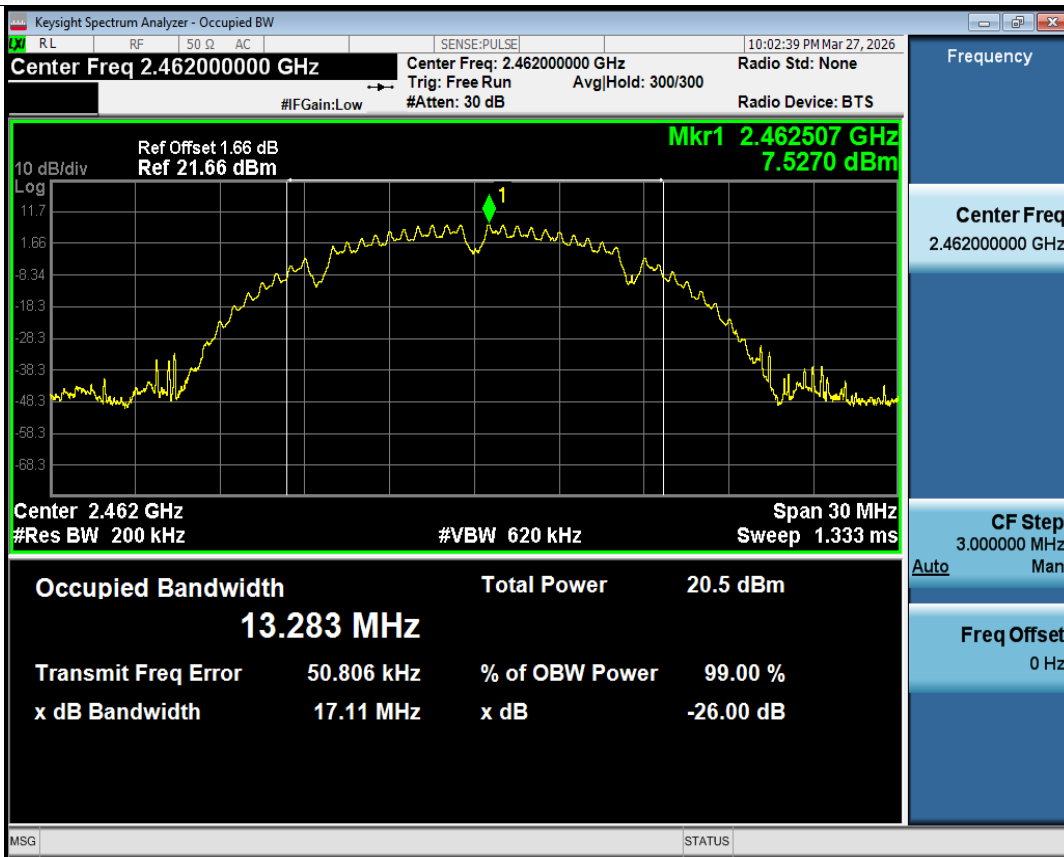
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.324
NVNT	b	2437	Ant1	13.302
NVNT	b	2462	Ant1	13.283
NVNT	g	2412	Ant1	16.551
NVNT	g	2437	Ant1	16.657
NVNT	g	2462	Ant1	16.667
NVNT	n20	2412	Ant1	17.705
NVNT	n20	2437	Ant1	17.739
NVNT	n20	2462	Ant1	17.726



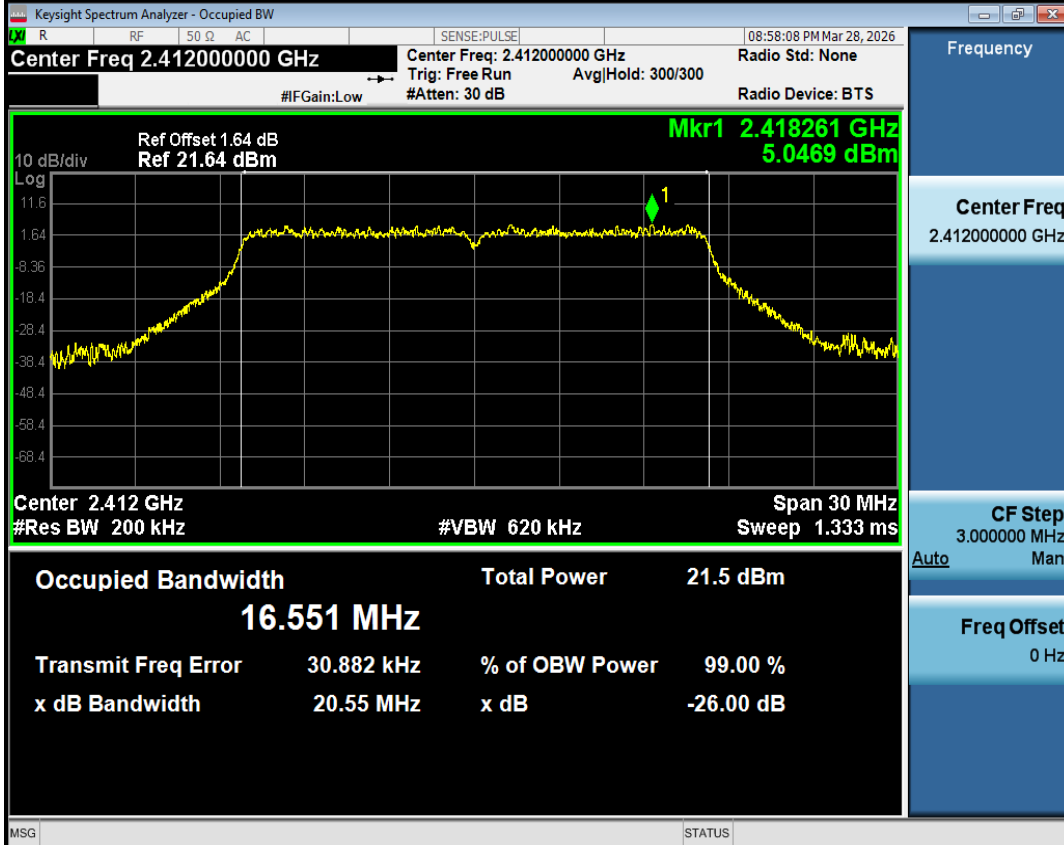
OBW NVNT b 2412MHz Ant1



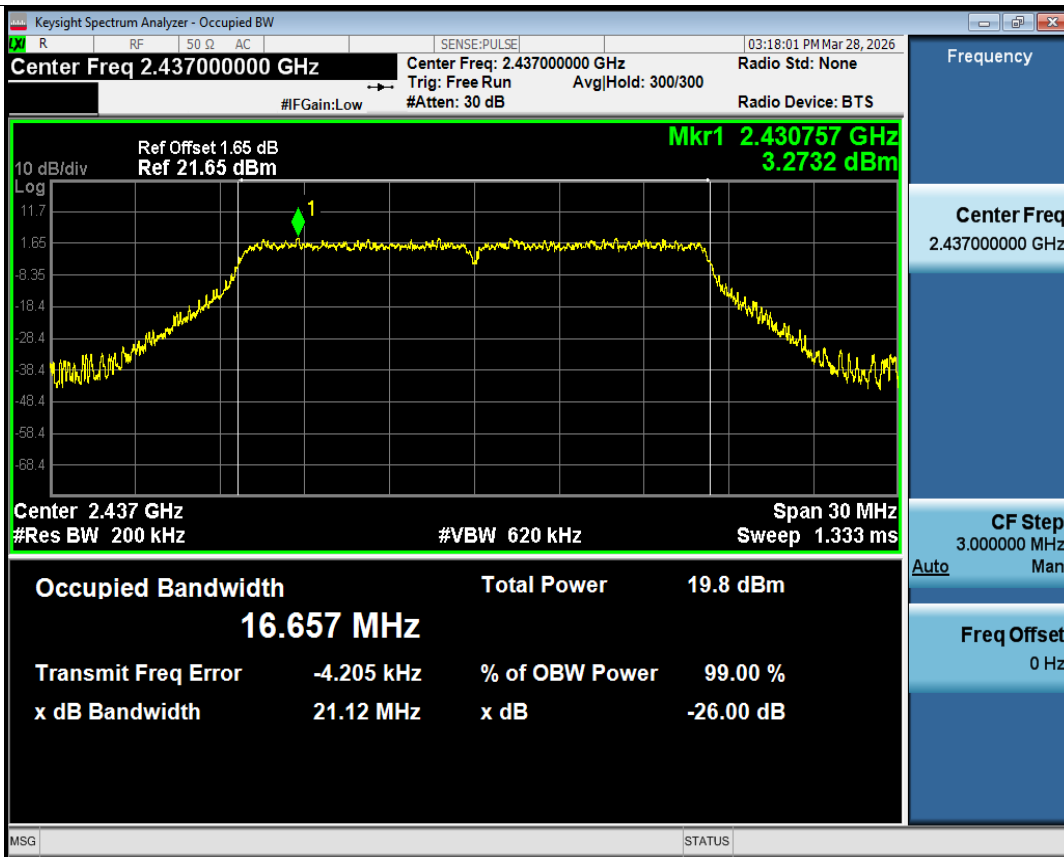
OBW NVNT b 2437MHz Ant1



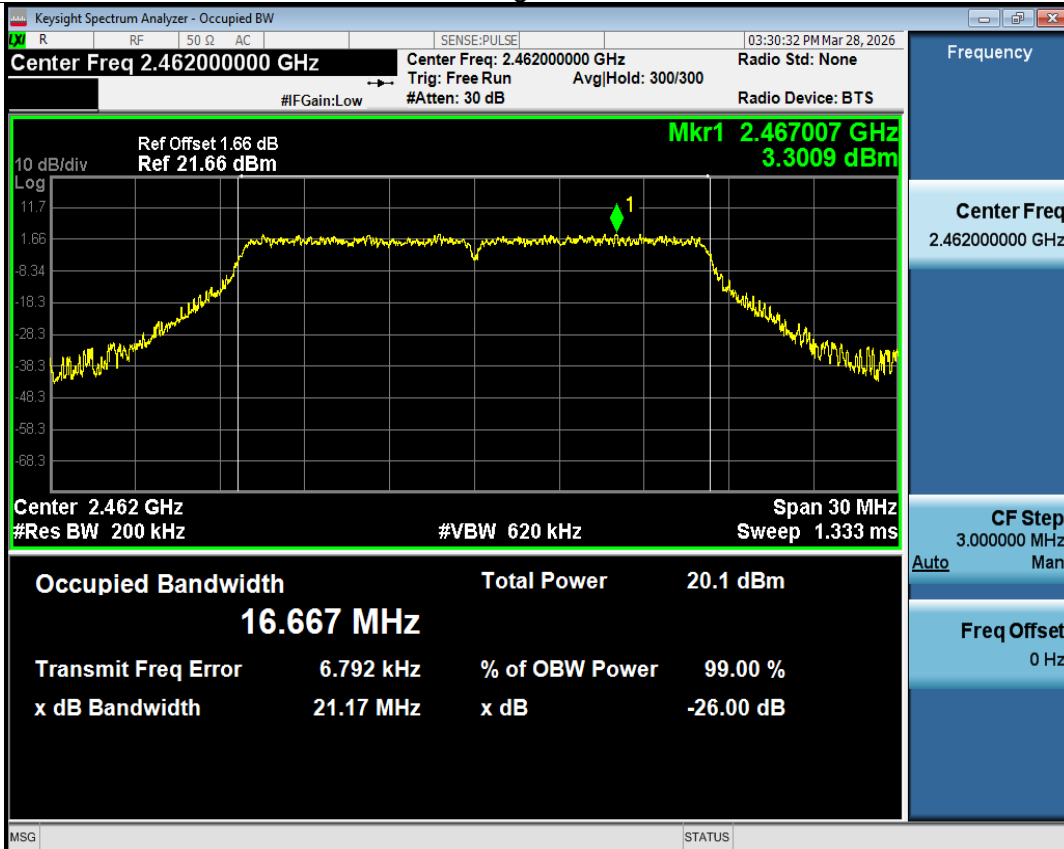
OBW NVNT b 2462MHz Ant1



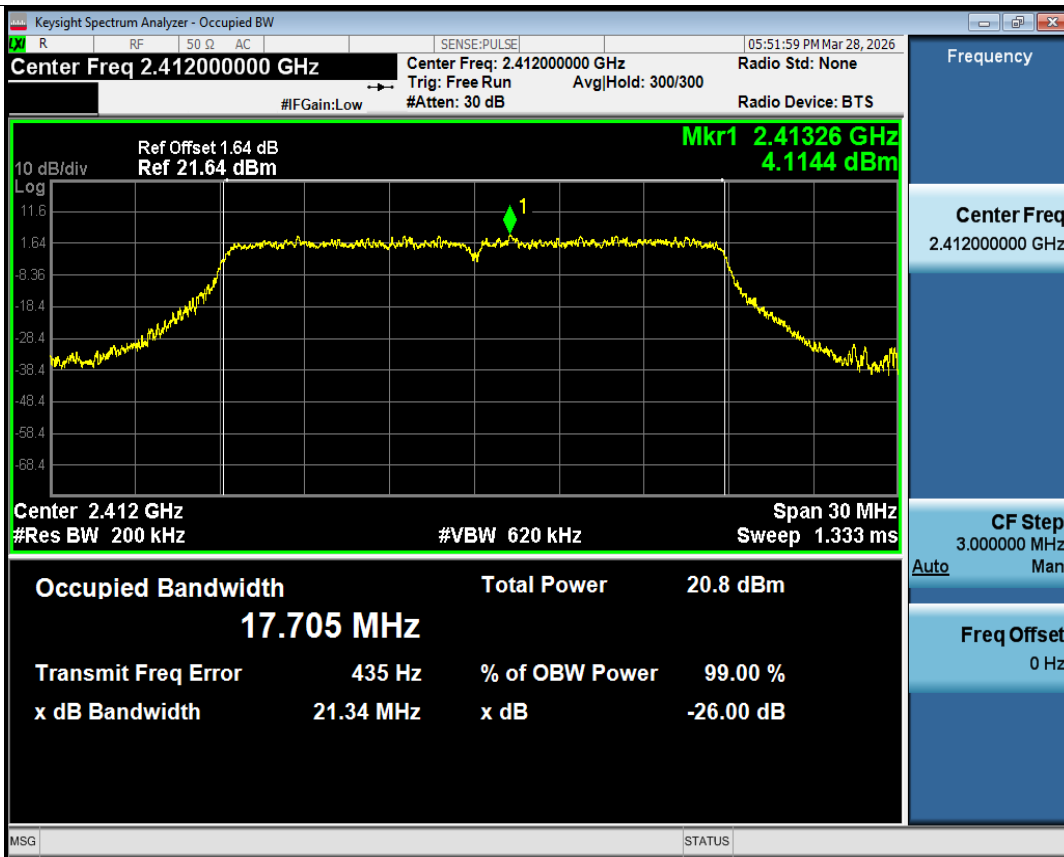
OBW NVNT g 2412MHz Ant1



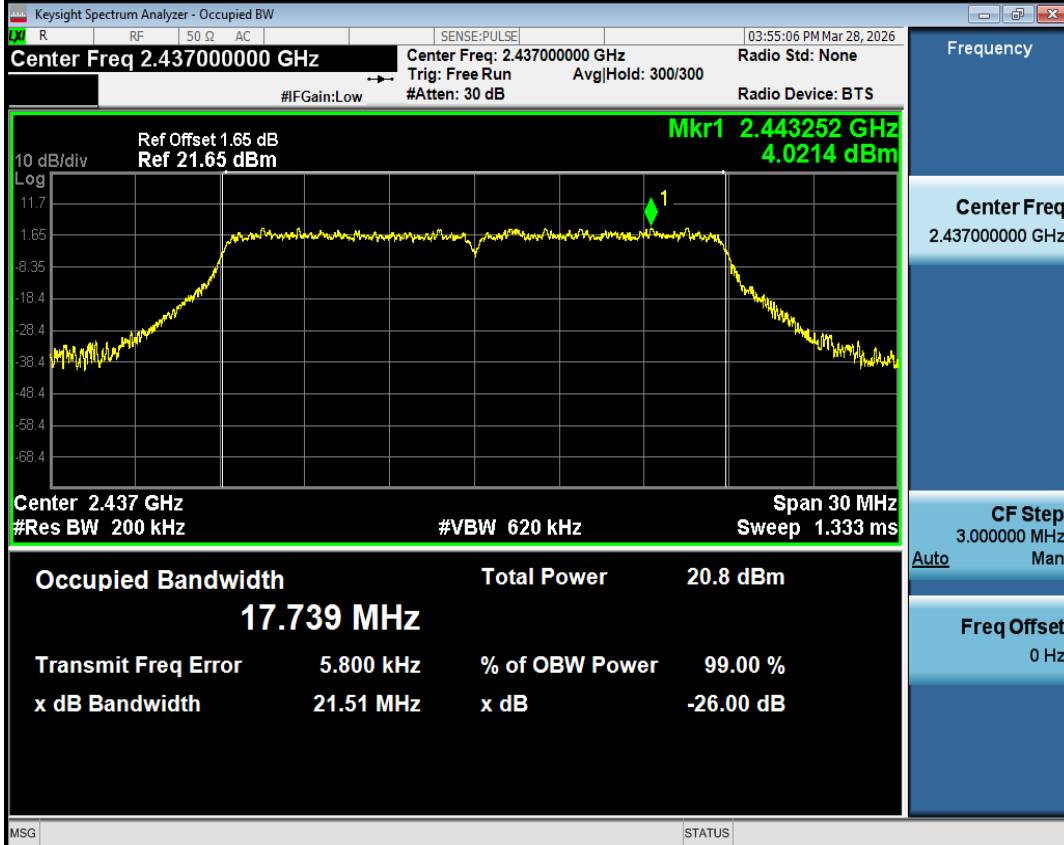
OBW NVNT g 2437MHz Ant1



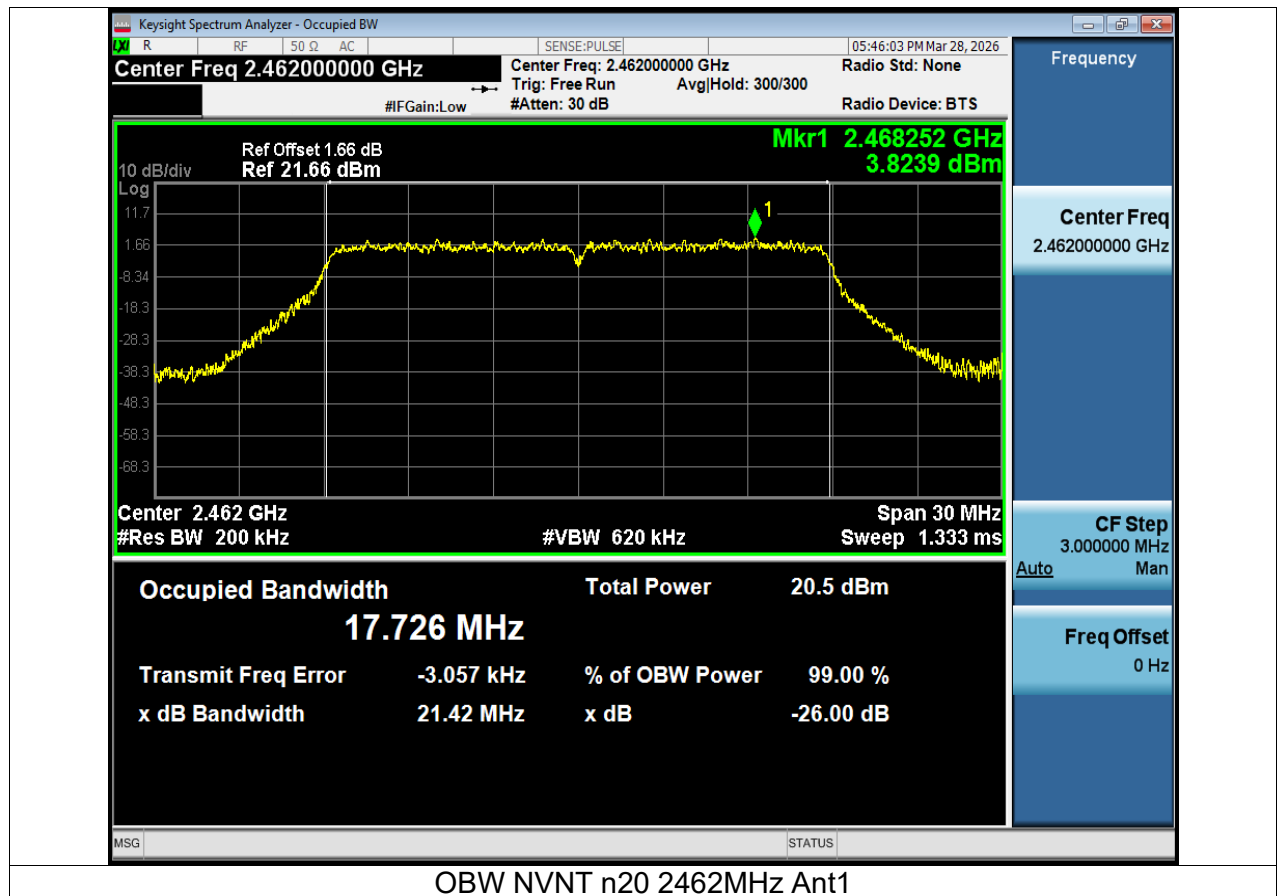
OBW NVNT g 2462MHz Ant1



OBW NVNT n20 2412MHz Ant1

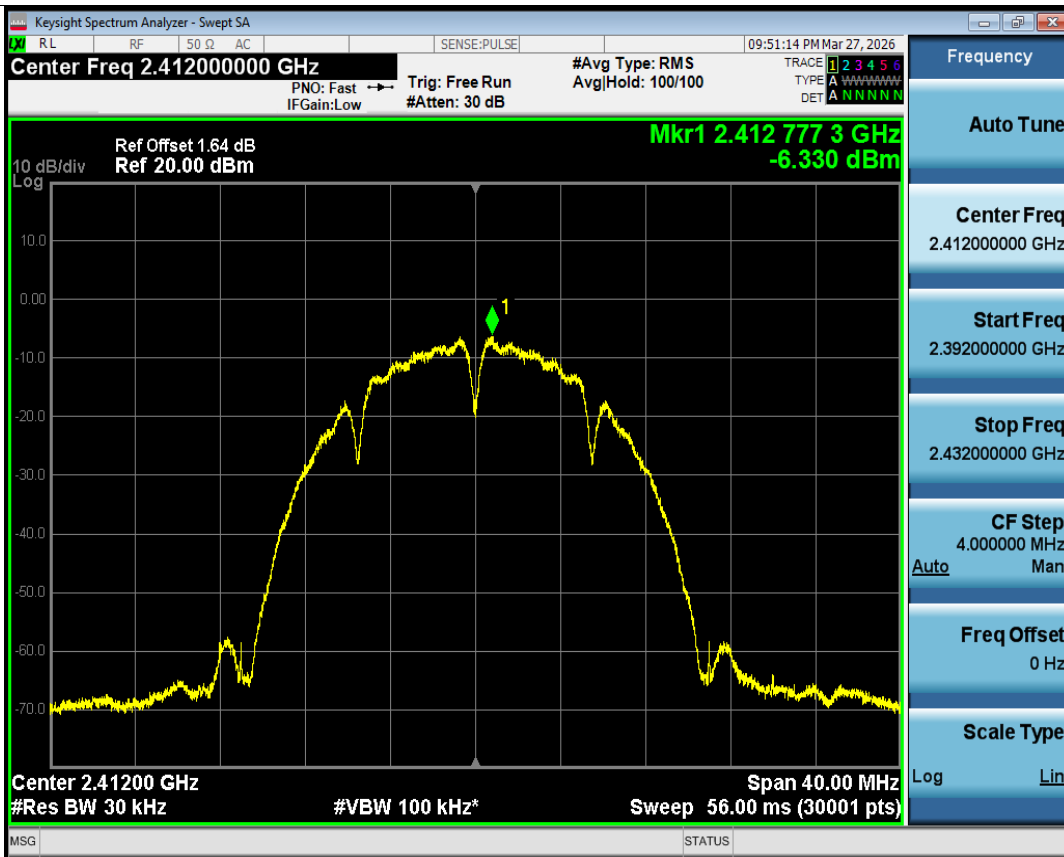


OBW NVNT n20 2437MHz Ant1

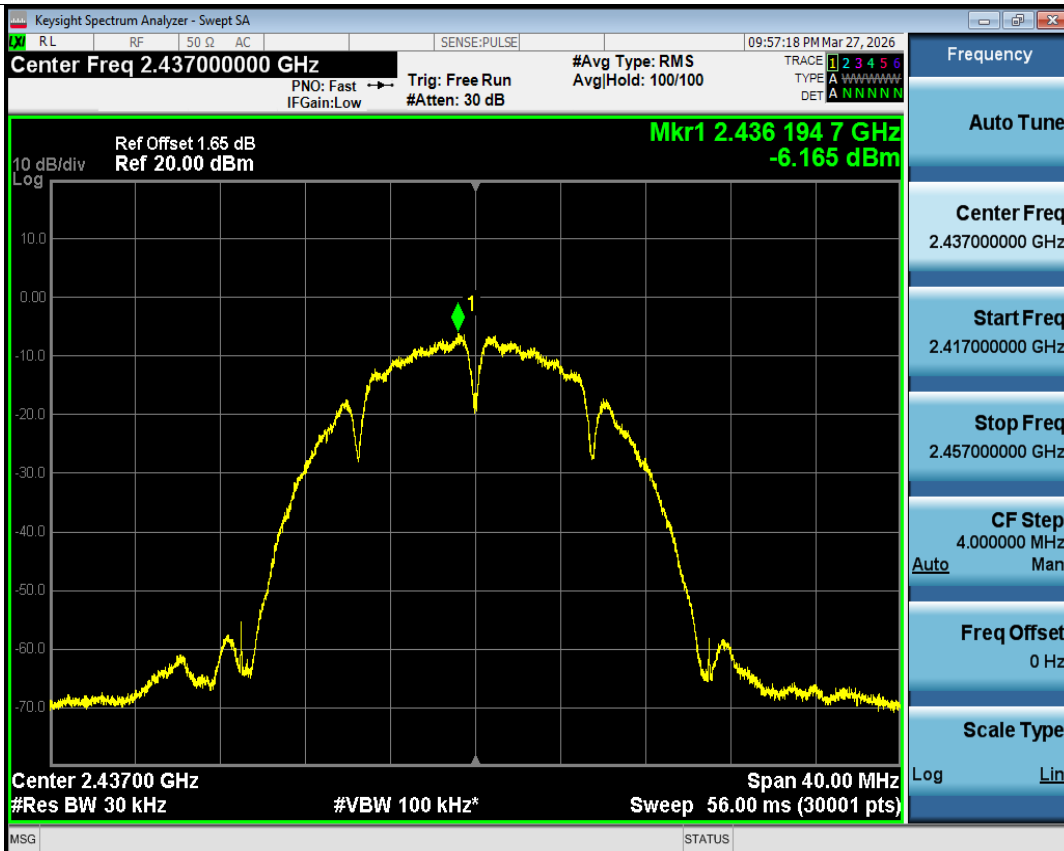


Maximum Power Spectral Density Level

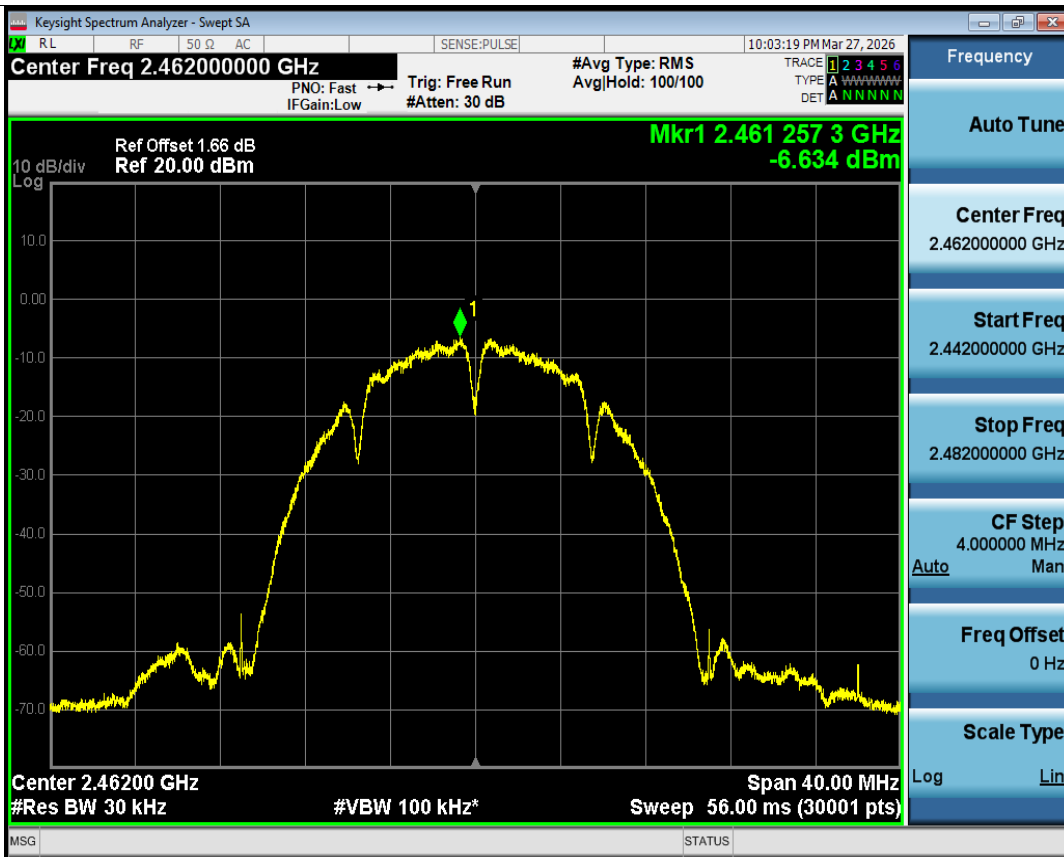
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-16.33	0.4	-15.93	8	Pass
NVNT	b	2437	Ant1	-16.17	0.05	-16.12	8	Pass
NVNT	b	2462	Ant1	-16.63	0.02	-16.61	8	Pass
NVNT	g	2412	Ant1	-19.07	0.34	-18.73	8	Pass
NVNT	g	2437	Ant1	-20.66	0.1	-20.56	8	Pass
NVNT	g	2462	Ant1	-20.65	0.34	-20.31	8	Pass
NVNT	n20	2412	Ant1	-20.14	0.18	-19.96	8	Pass
NVNT	n20	2437	Ant1	-19.82	0.12	-19.7	8	Pass
NVNT	n20	2462	Ant1	-20.3	0.25	-20.05	8	Pass



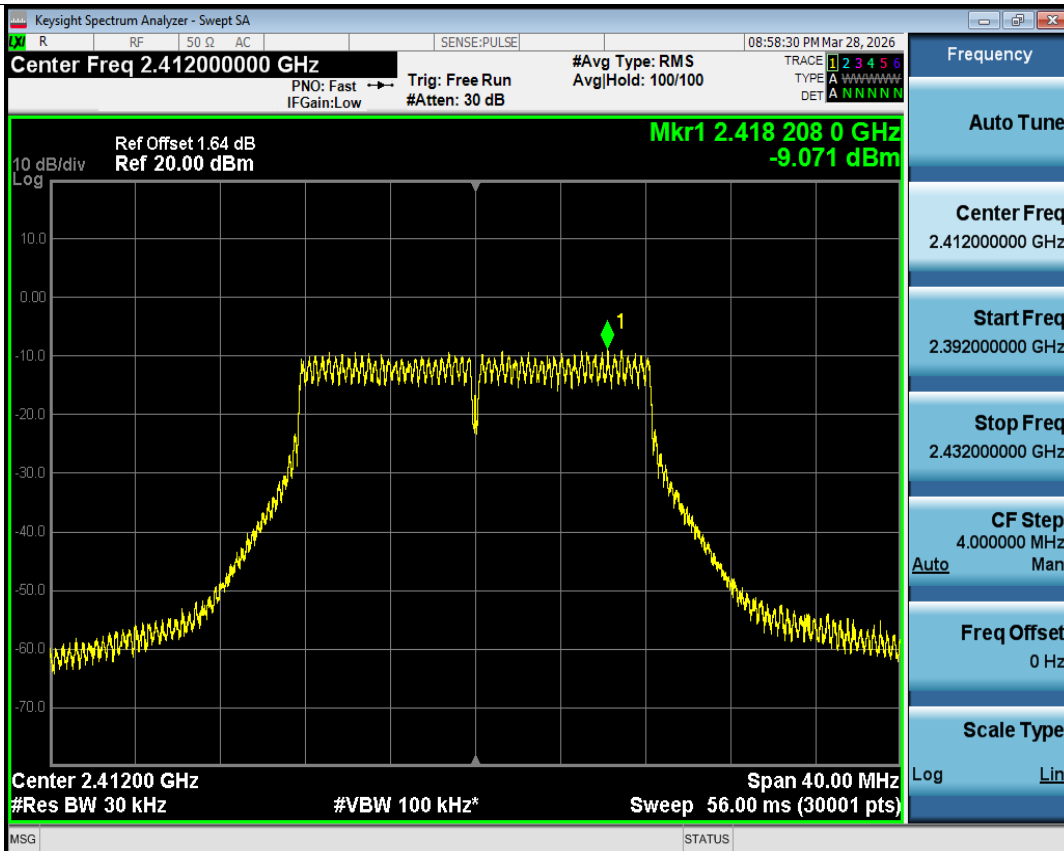
PSD NVNT b 2412MHz Ant1



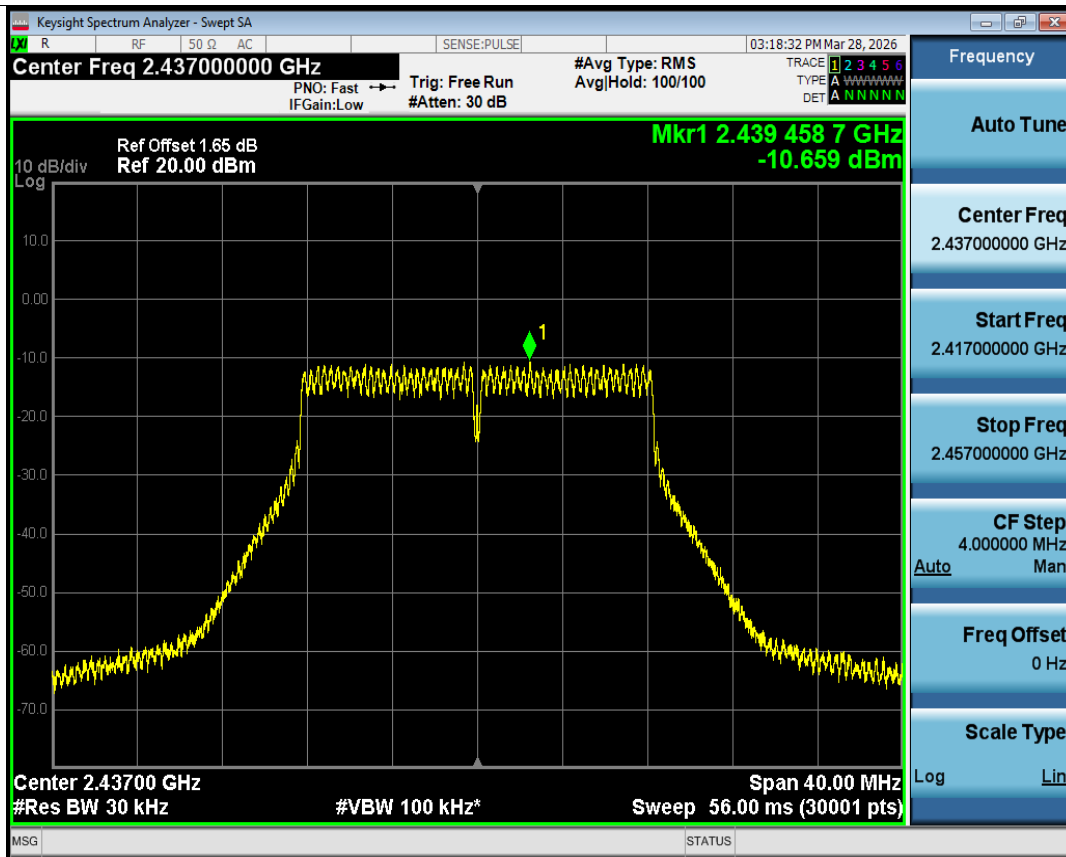
PSD NVNT b 2437MHz Ant1



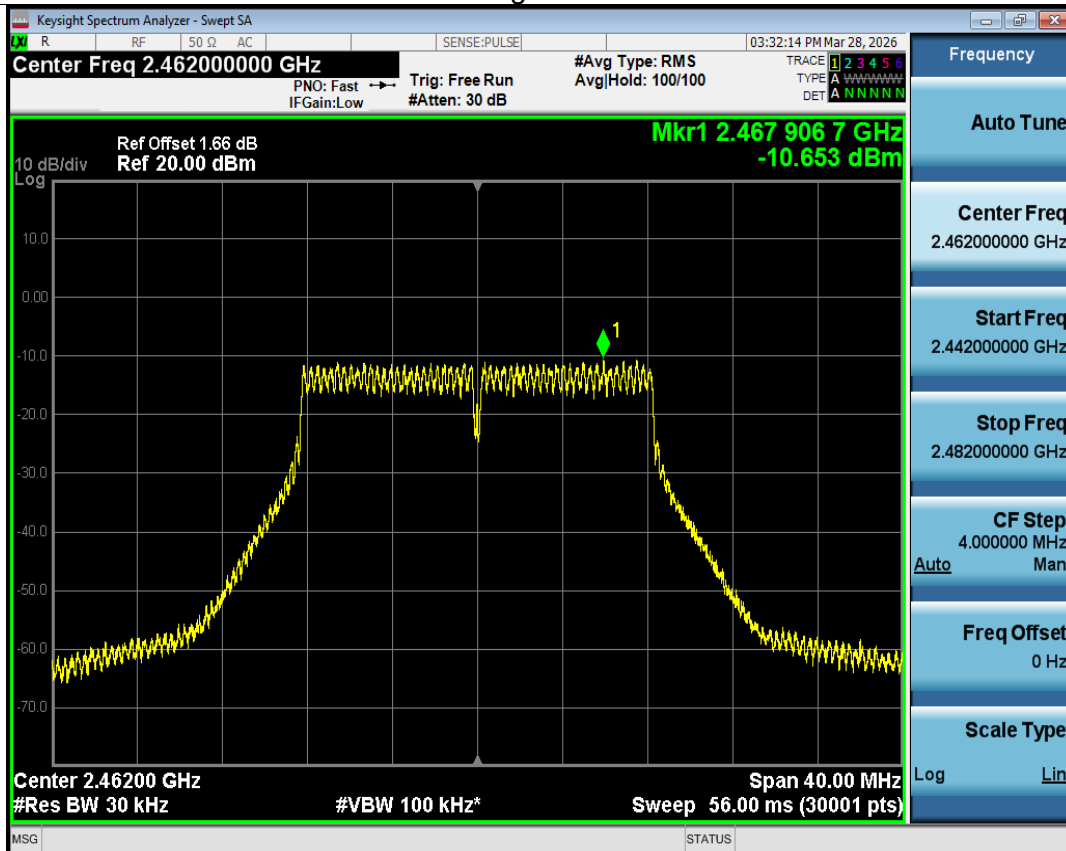
PSD NVNT b 2462MHz Ant1



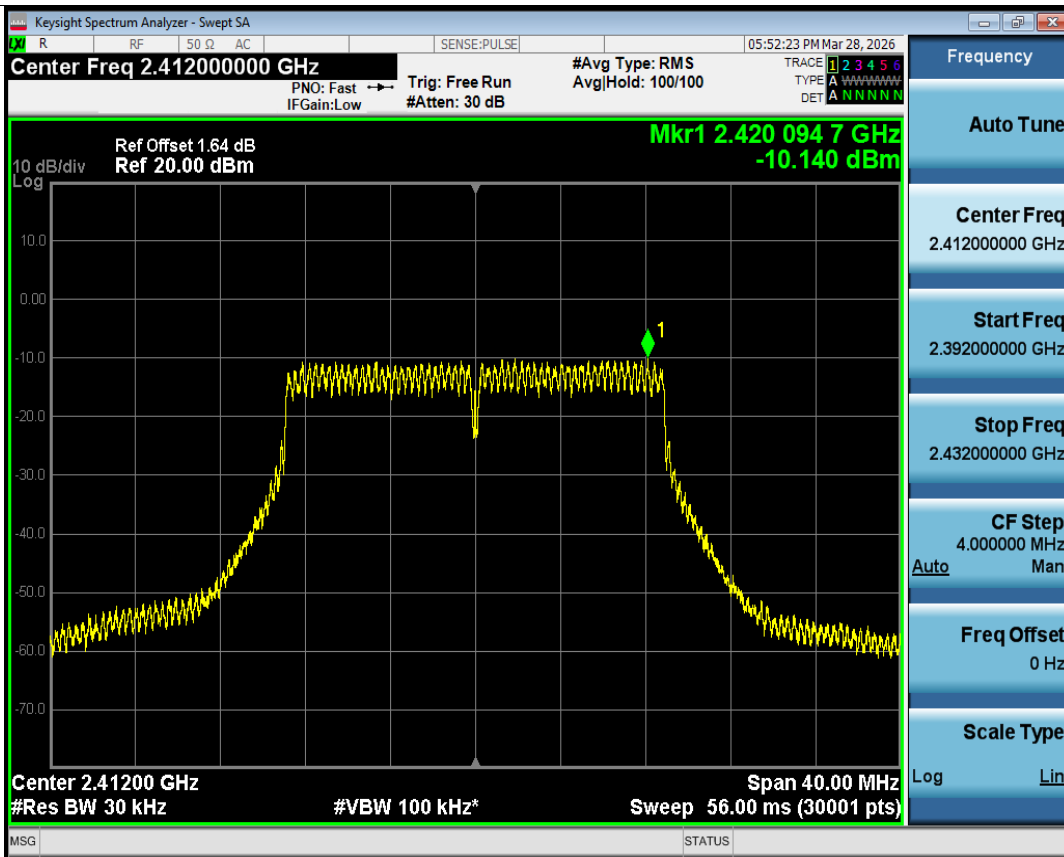
PSD NVNT g 2412MHz Ant1



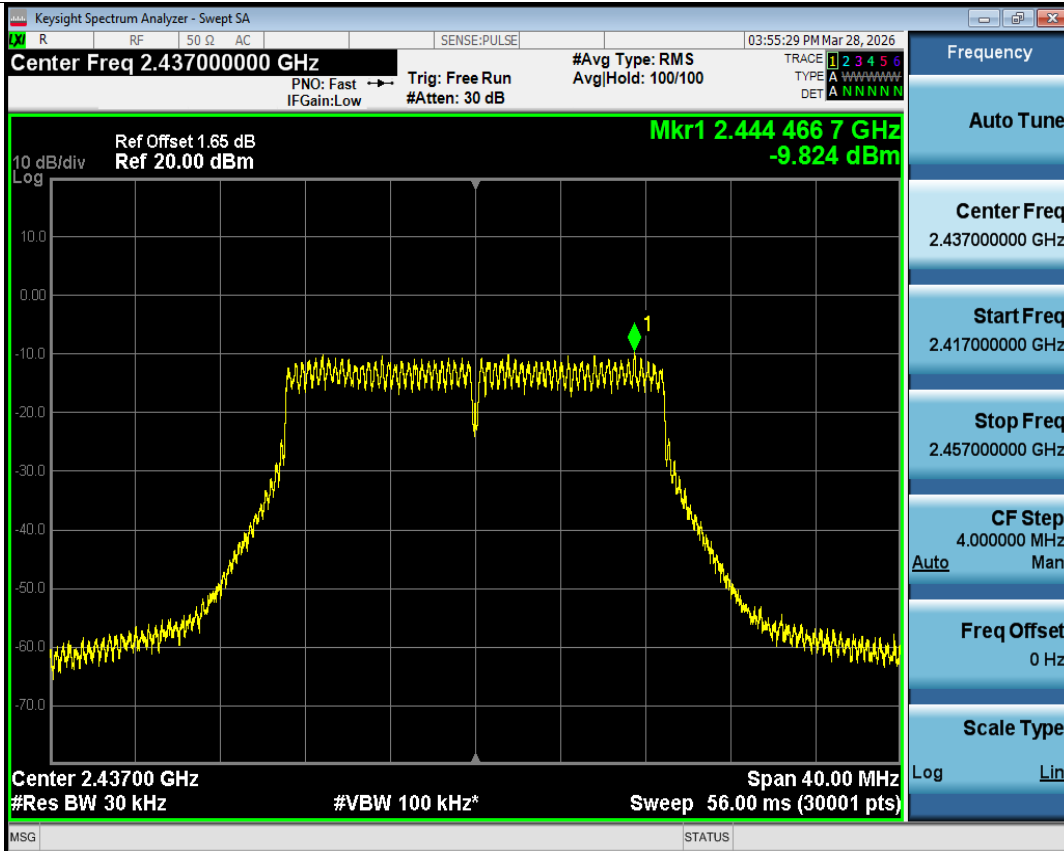
PSD NVNT g 2437MHz Ant1



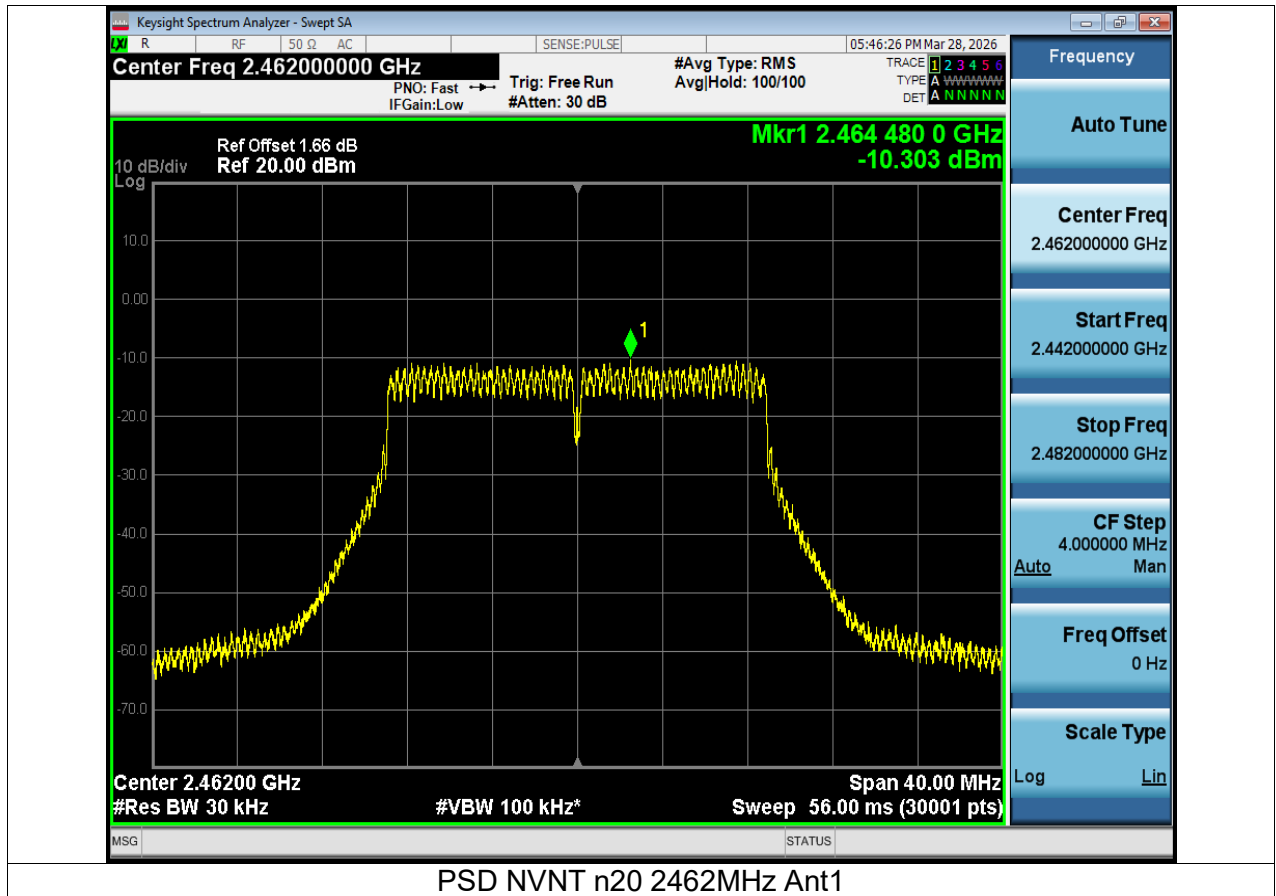
PSD NVNT g 2462MHz Ant1



PSD NVNT n20 2412MHz Ant1

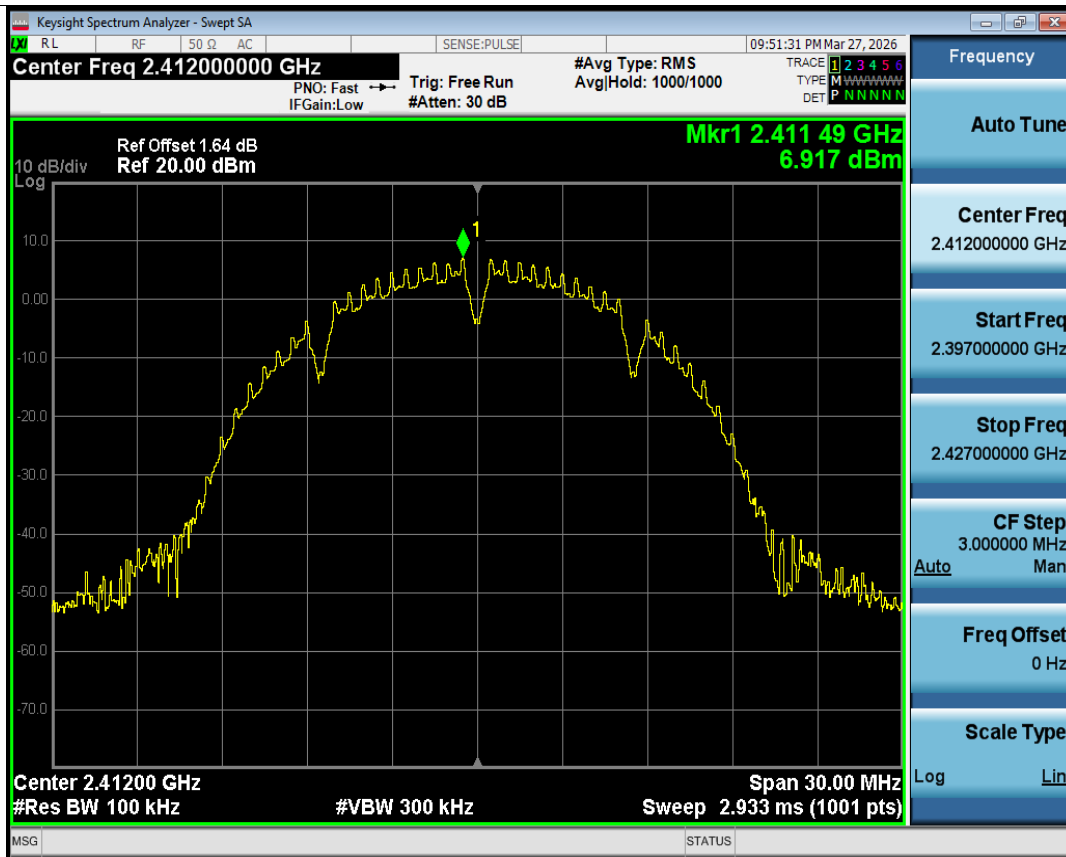


PSD NVNT n20 2437MHz Ant1

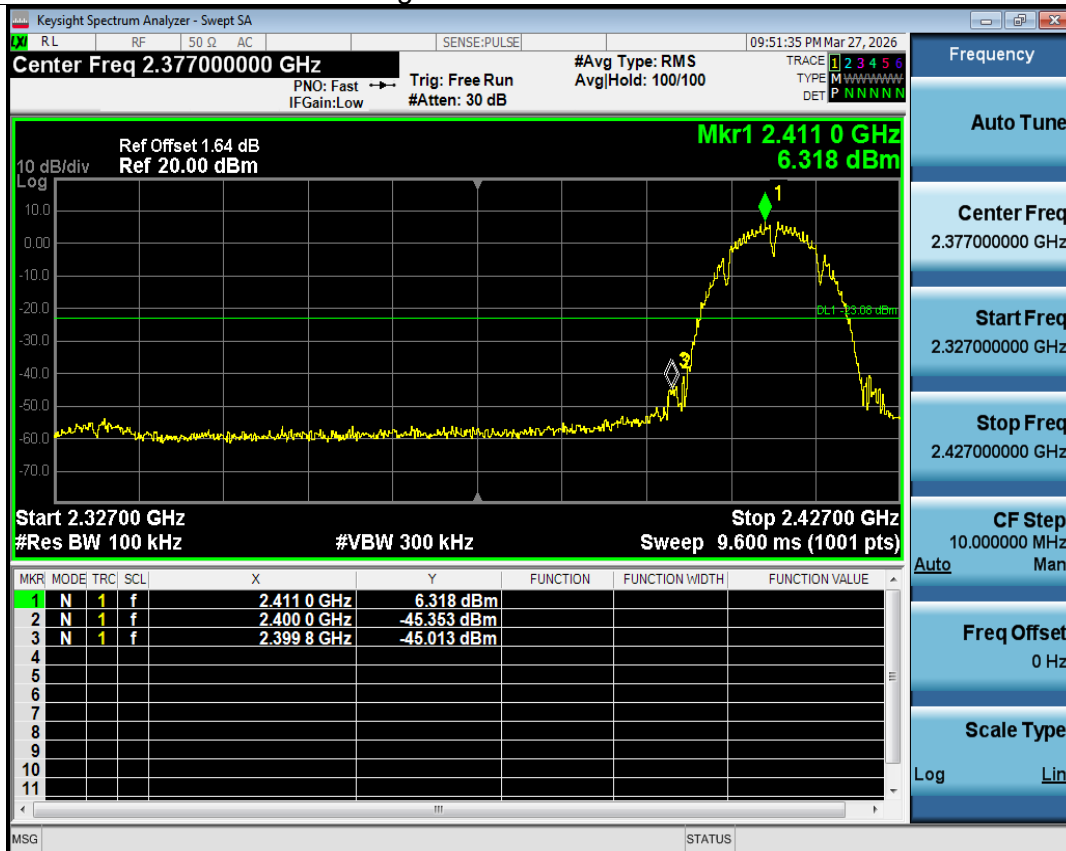


Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.93	-30	Pass
NVNT	b	2462	Ant1	-61.82	-30	Pass
NVNT	g	2412	Ant1	-40.22	-30	Pass
NVNT	g	2462	Ant1	-47.24	-30	Pass
NVNT	n20	2412	Ant1	-36.5	-30	Pass
NVNT	n20	2462	Ant1	-45.22	-30	Pass



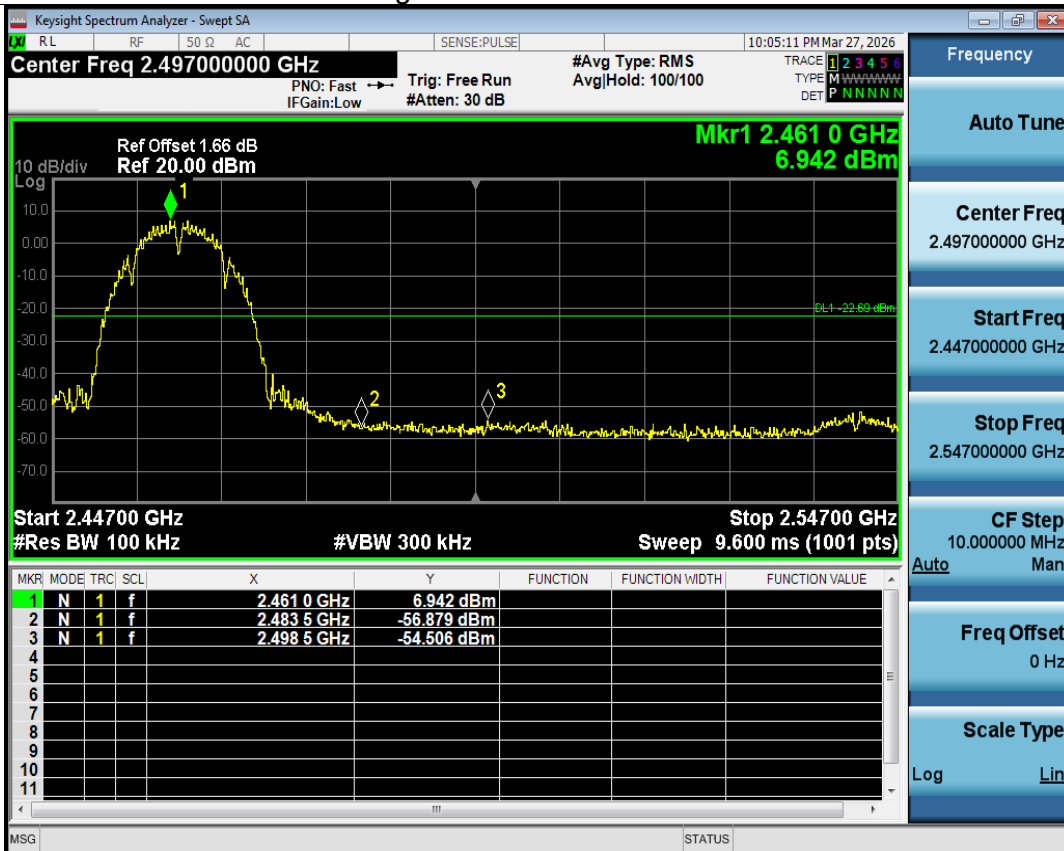
Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



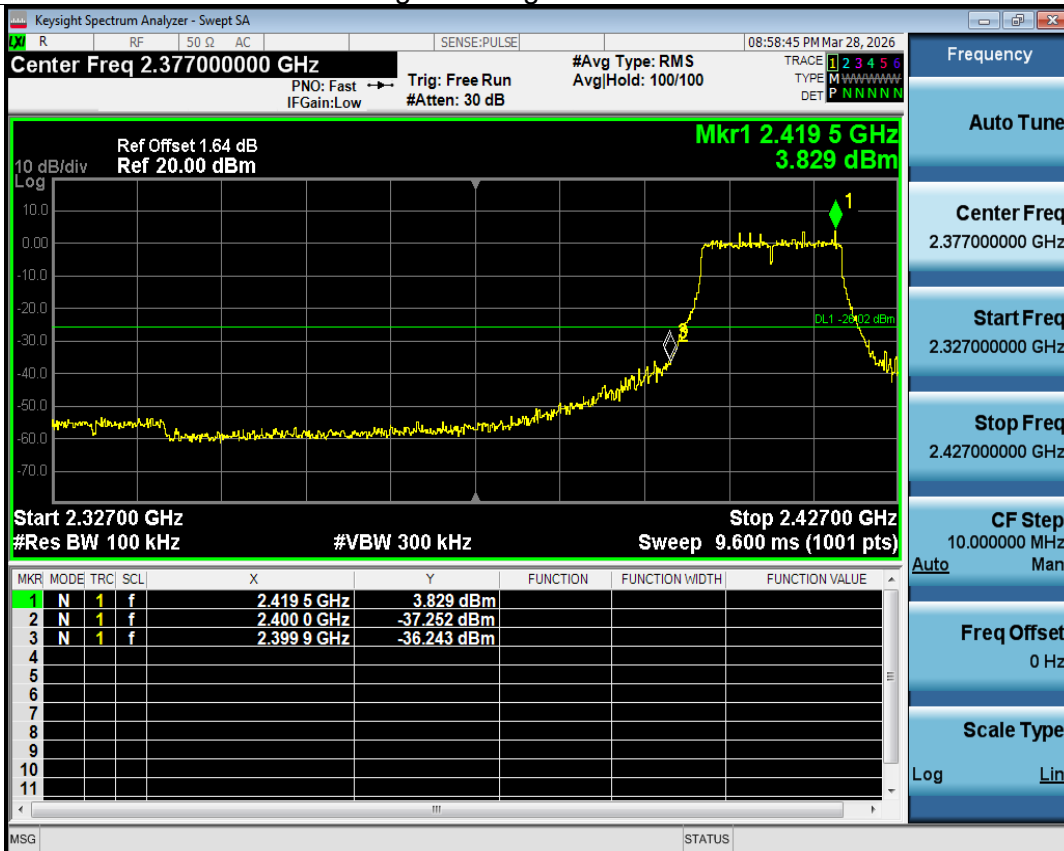
Band Edge NVNT b 2462MHz Ant1 Ref



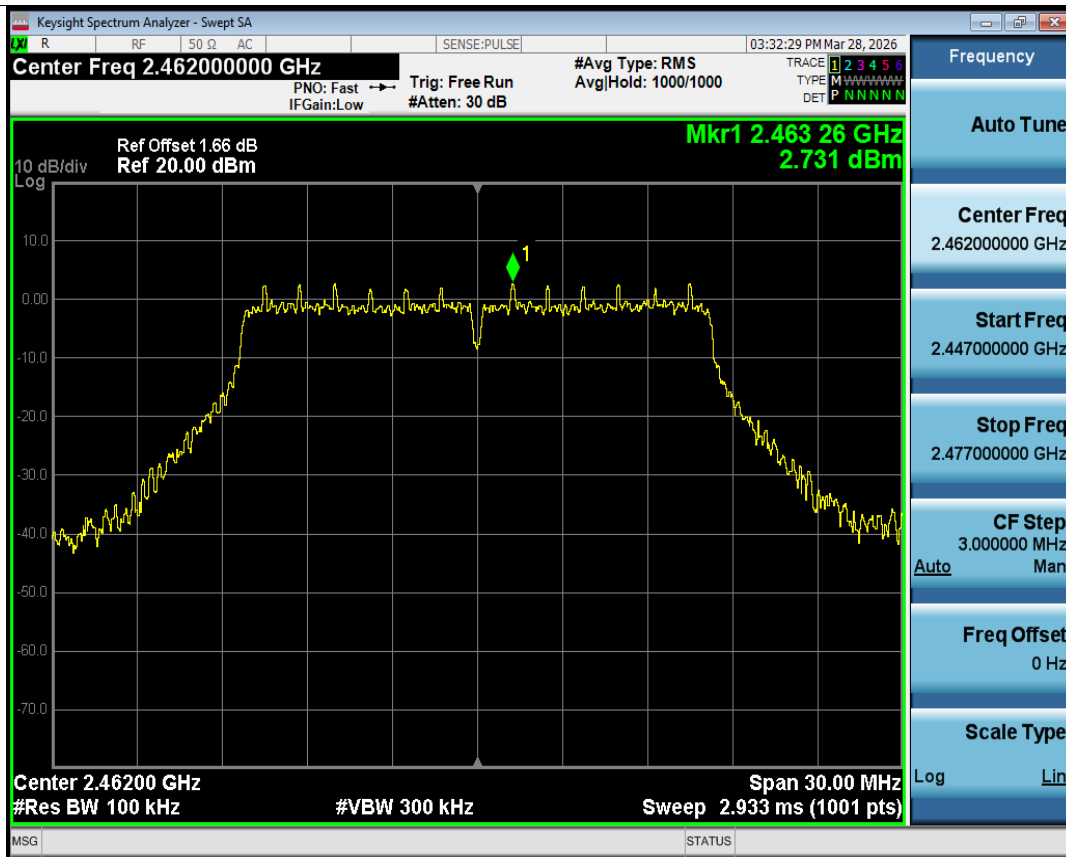
Band Edge NVNT b 2462MHz Ant1 Emission



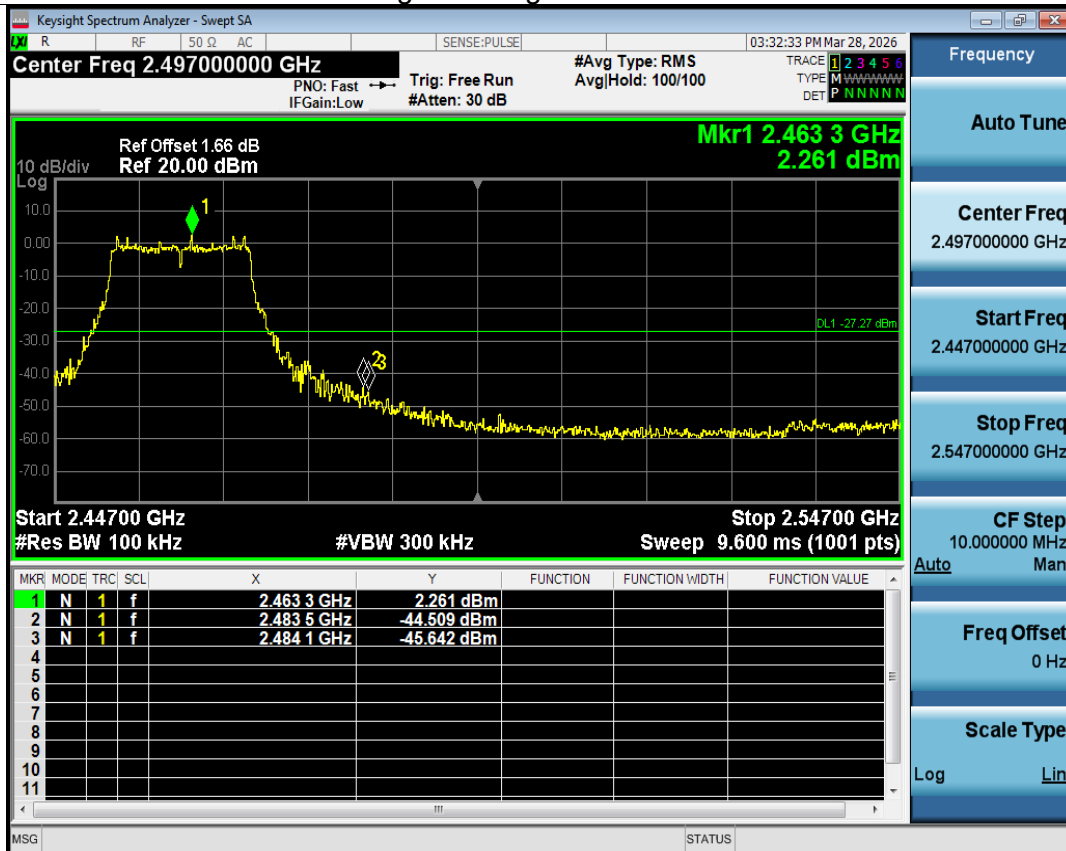
Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



Band Edge NVNT g 2462MHz Ant1 Ref



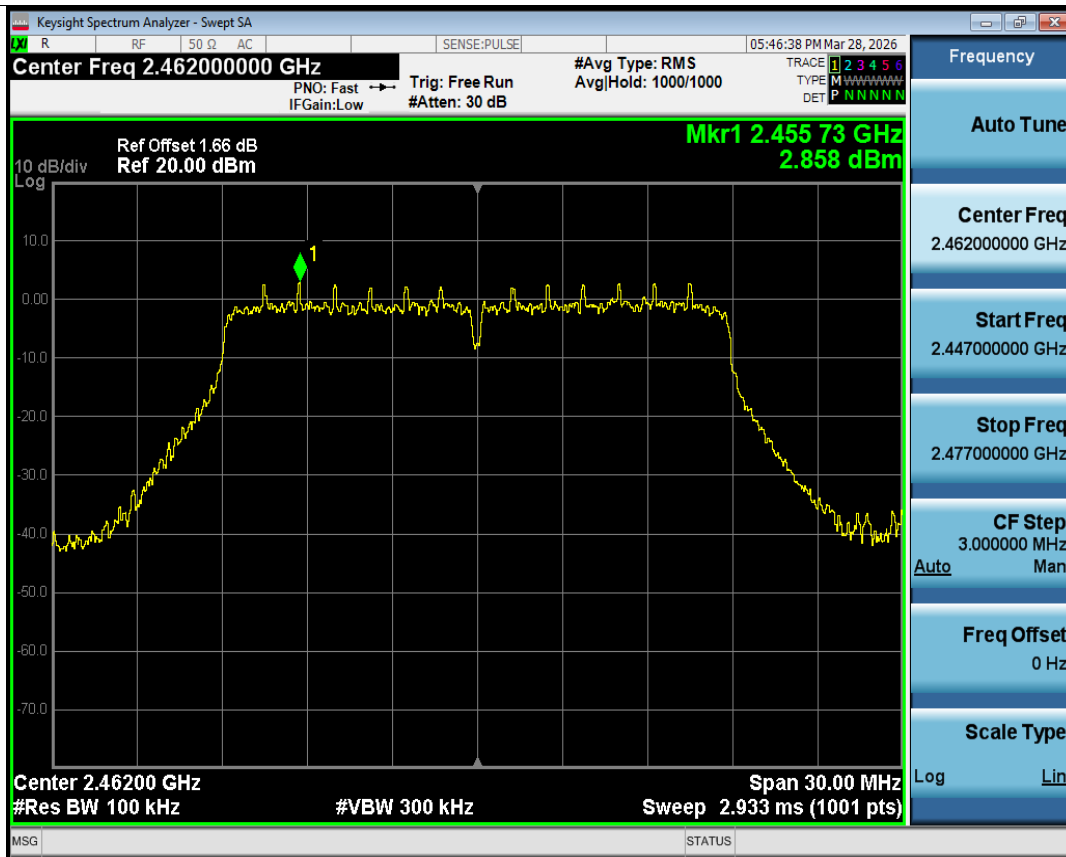
Band Edge NVNT g 2462MHz Ant1 Emission



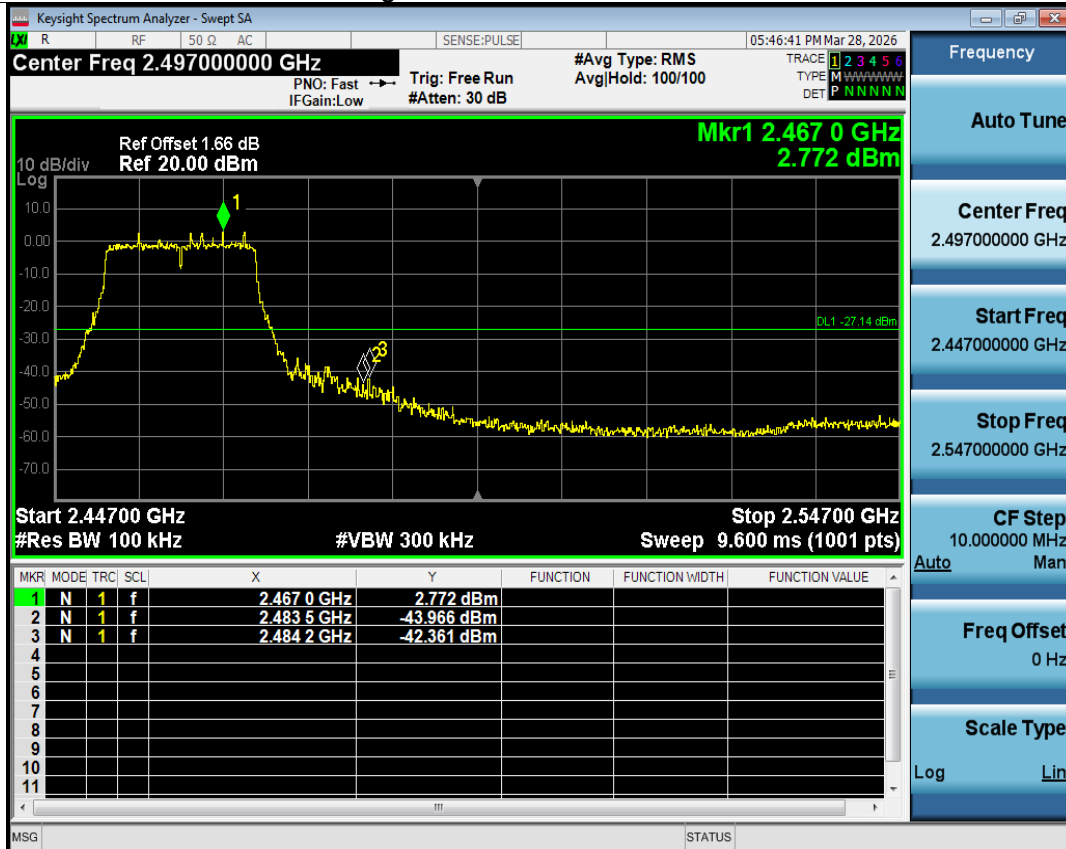
Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



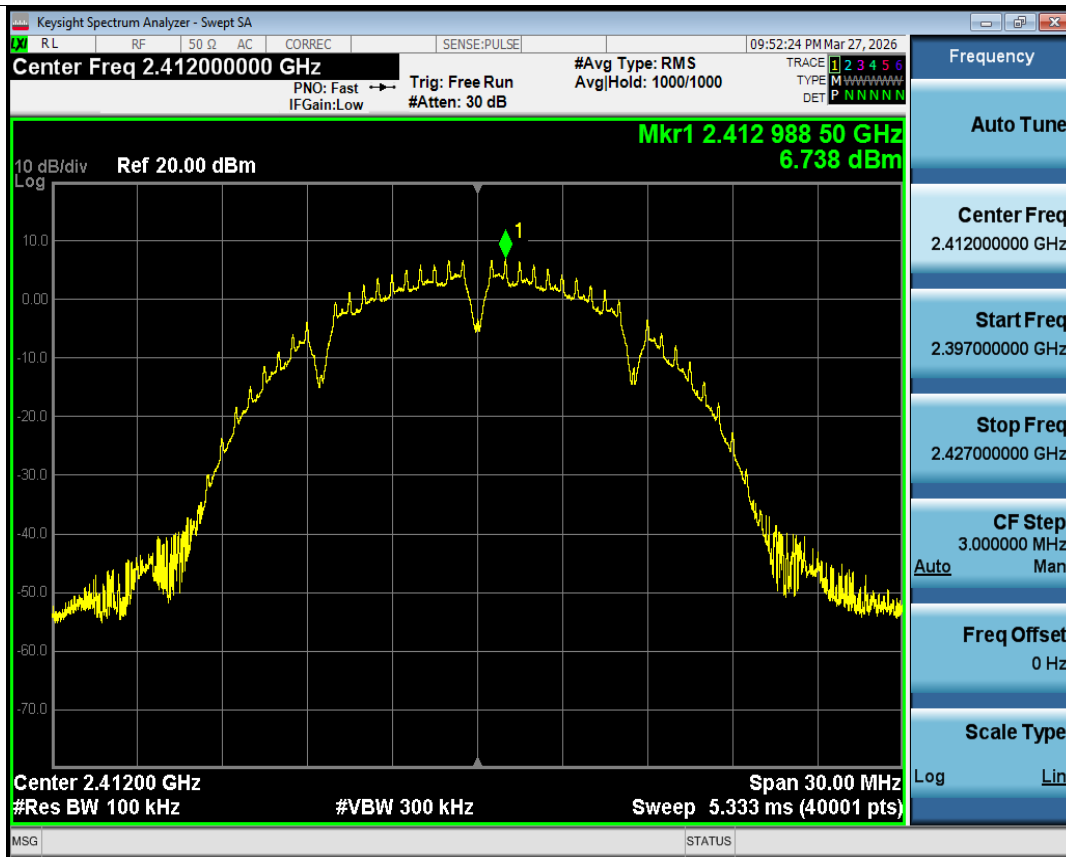
Band Edge NVNT n20 2462MHz Ant1 Ref



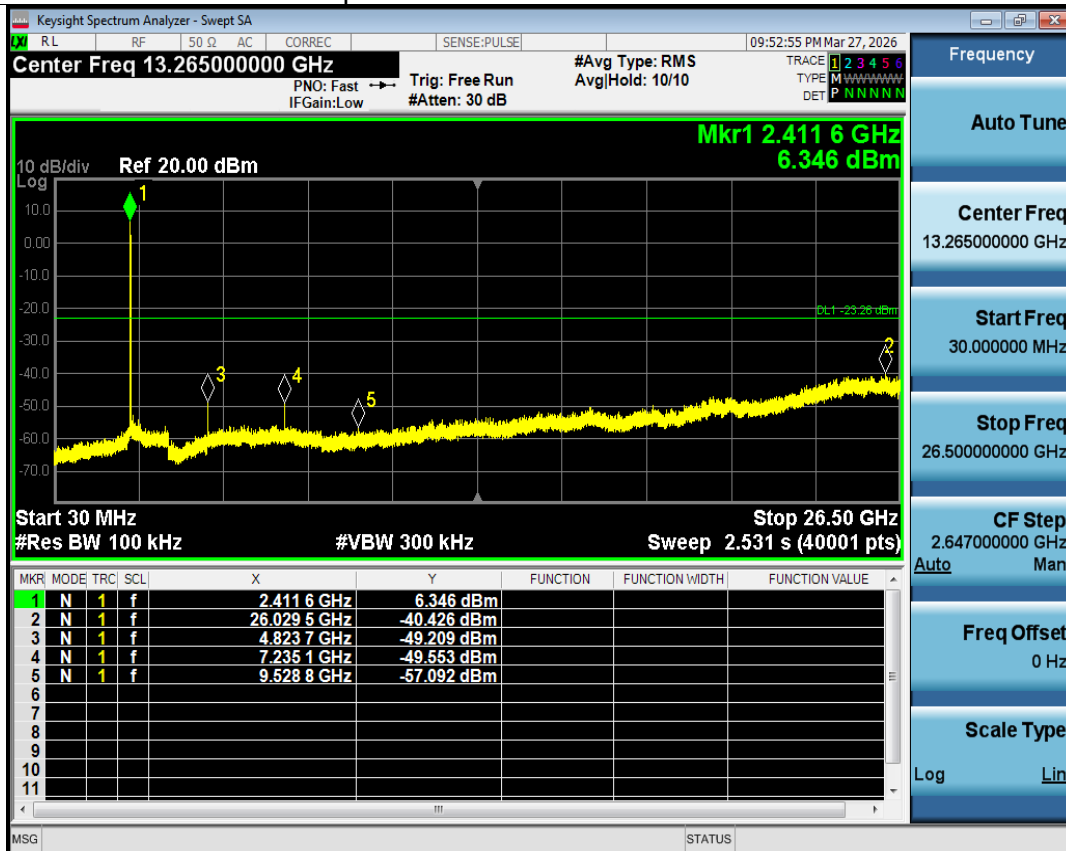
Band Edge NVNT n20 2462MHz Ant1 Emission

Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-47.17	-30	Pass
NVNT	b	2437	Ant1	-47.57	-30	Pass
NVNT	b	2462	Ant1	-47.92	-30	Pass
NVNT	g	2412	Ant1	-43.84	-30	Pass
NVNT	g	2437	Ant1	-42.45	-30	Pass
NVNT	g	2462	Ant1	-43	-30	Pass
NVNT	n20	2412	Ant1	-43.39	-30	Pass
NVNT	n20	2437	Ant1	-43.43	-30	Pass
NVNT	n20	2462	Ant1	-43.37	-30	Pass



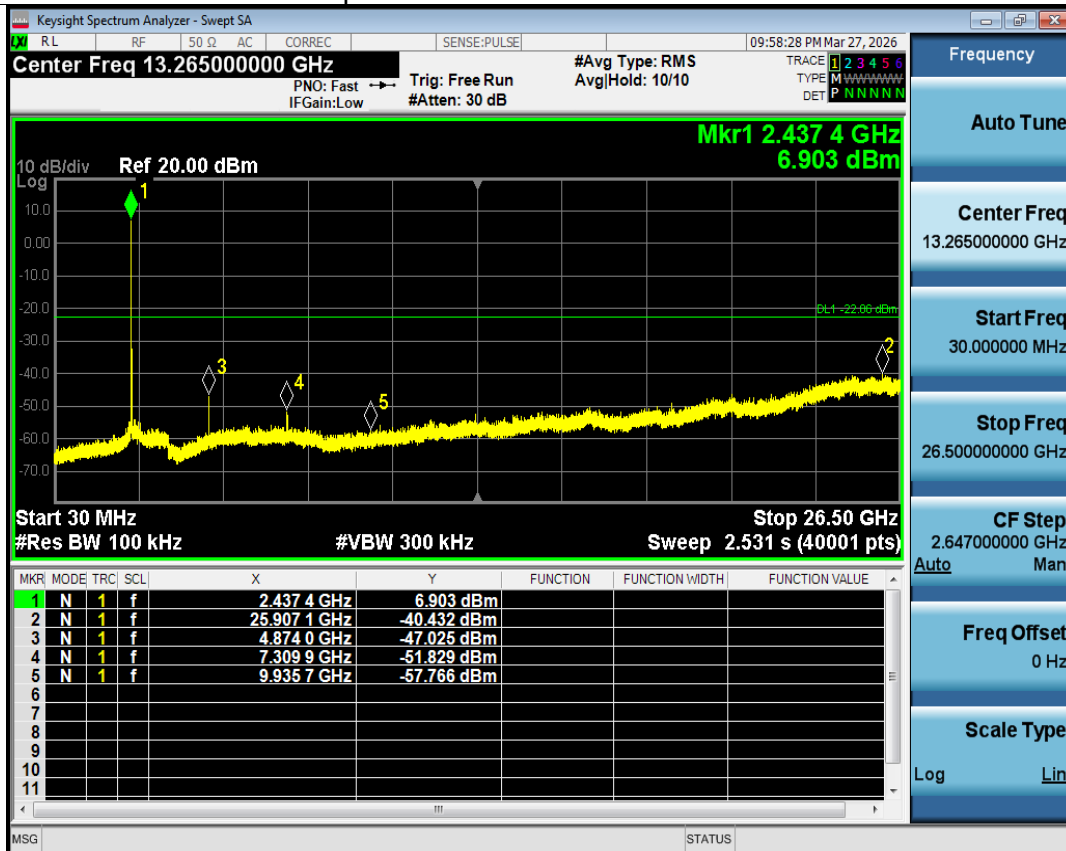
Tx. Spurious NVNT b 2412MHz Ant1 Ref



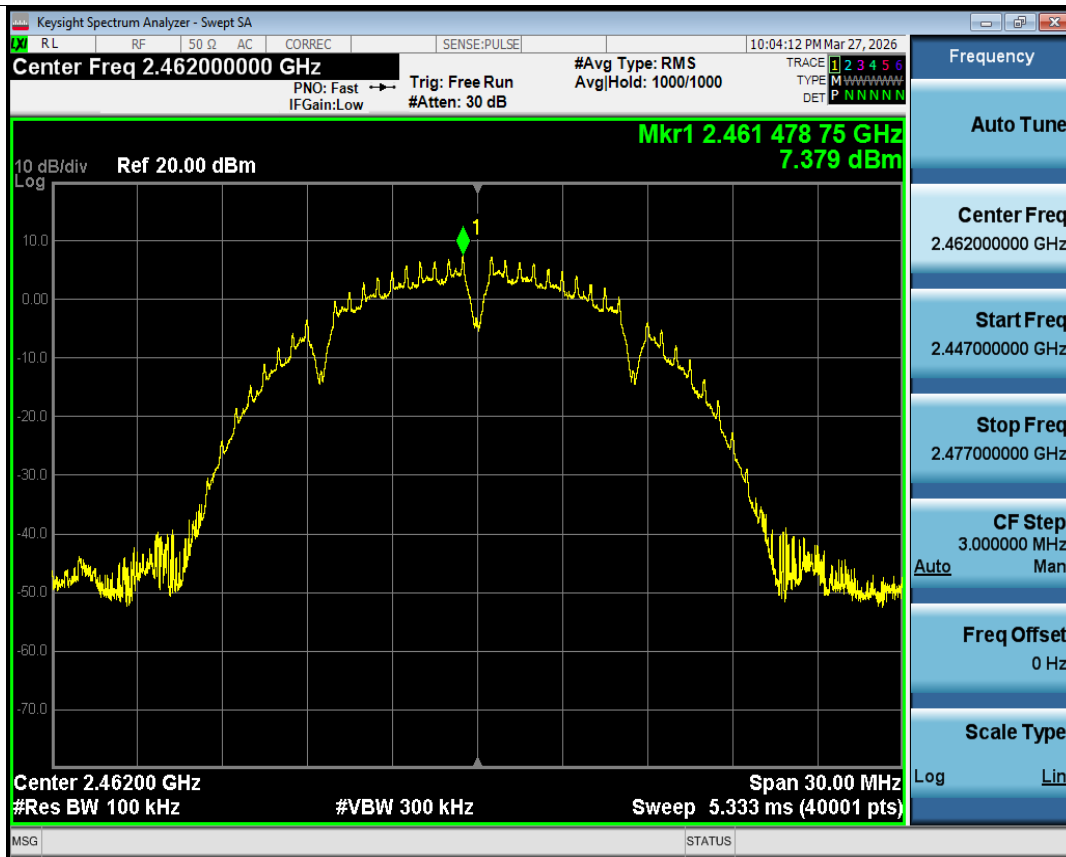
Tx. Spurious NVNT b 2412MHz Ant1 Emission



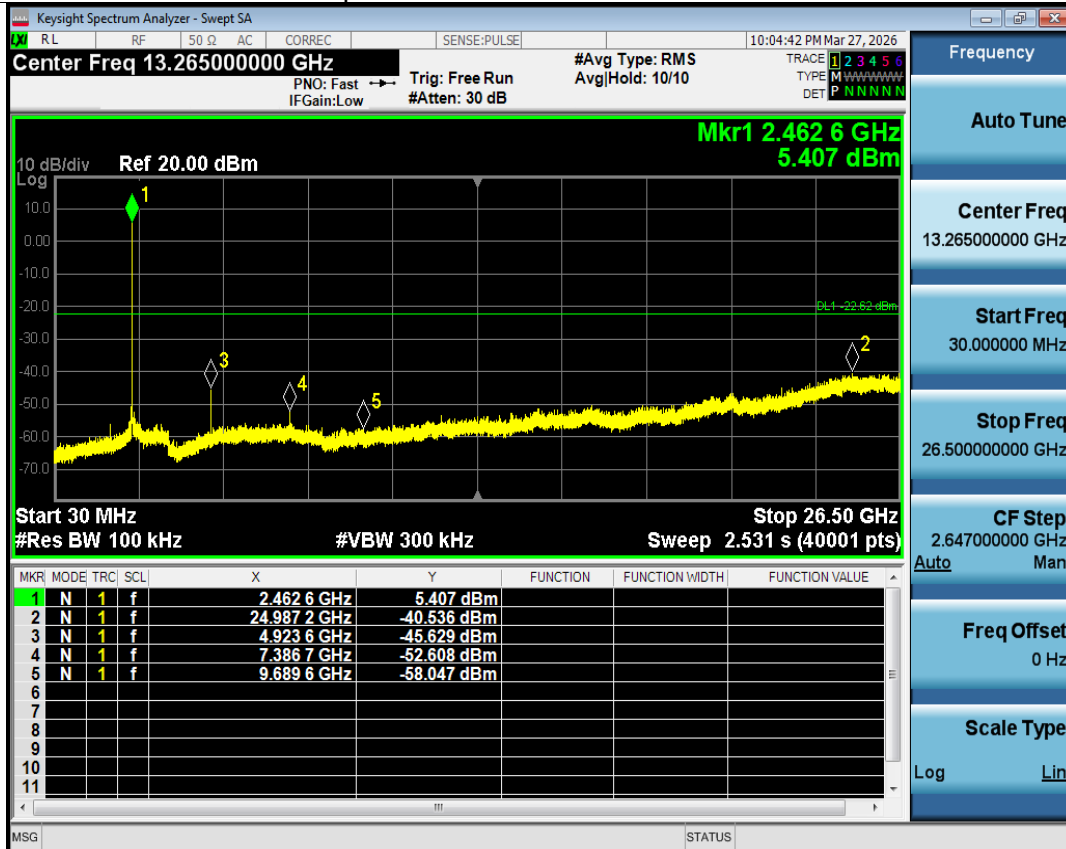
Tx. Spurious NVNT b 2437MHz Ant1 Ref



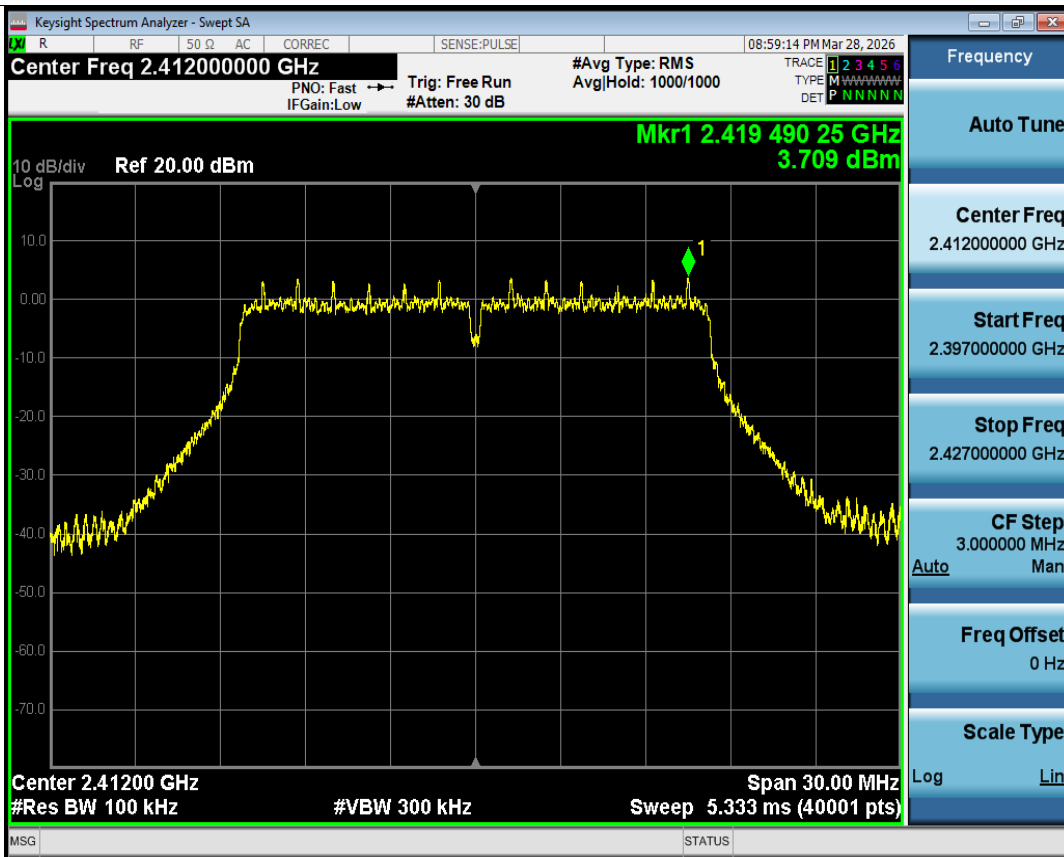
Tx. Spurious NVNT b 2437MHz Ant1 Emission



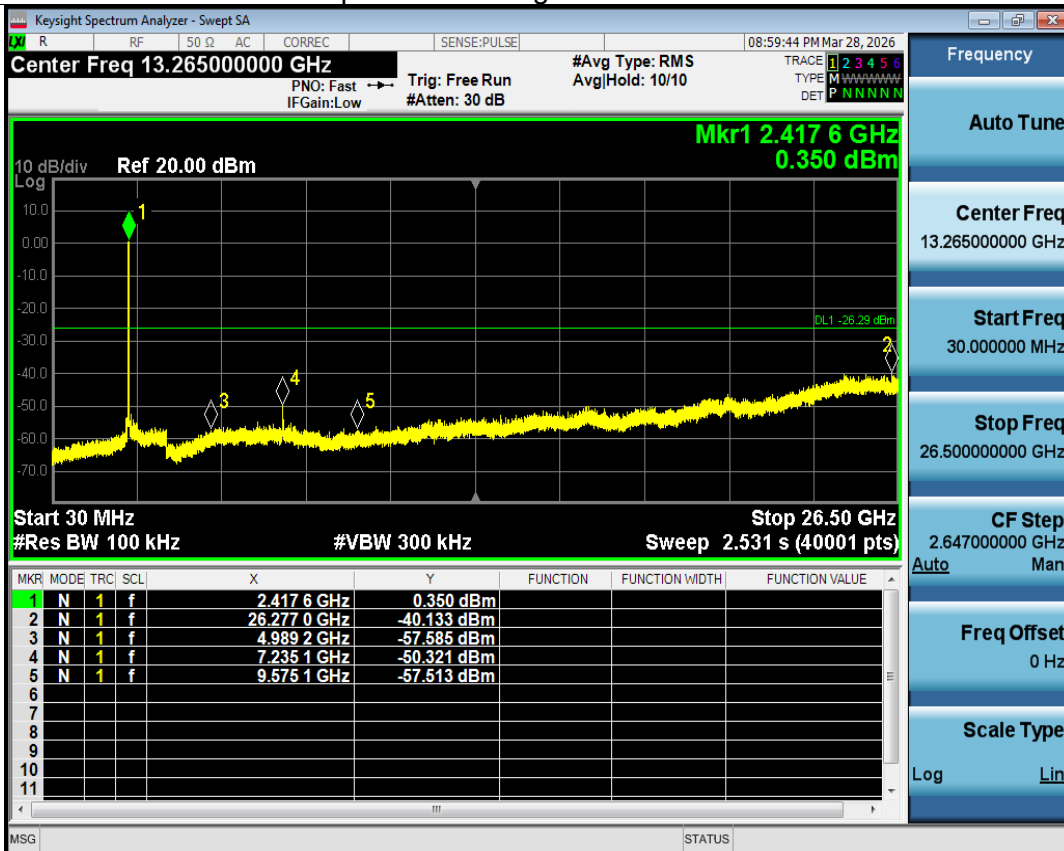
Tx. Spurious NVNT b 2462MHz Ant1 Ref



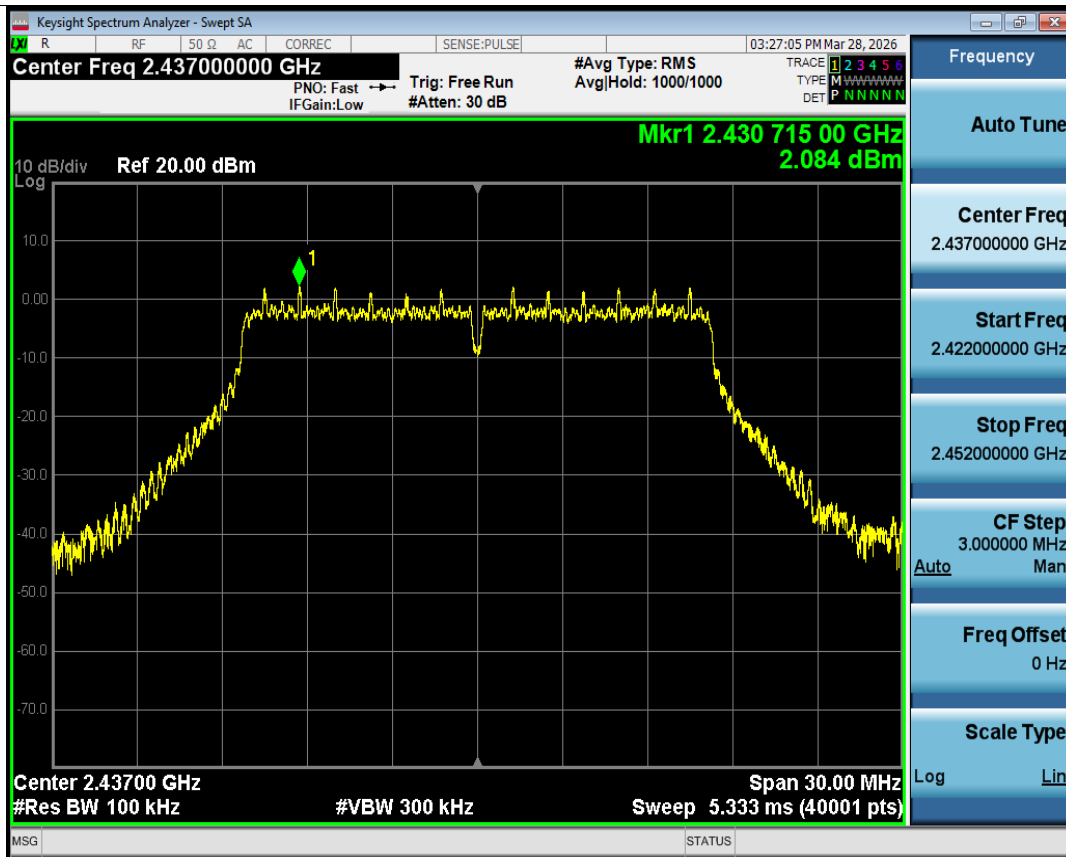
Tx. Spurious NVNT b 2462MHz Ant1 Emission



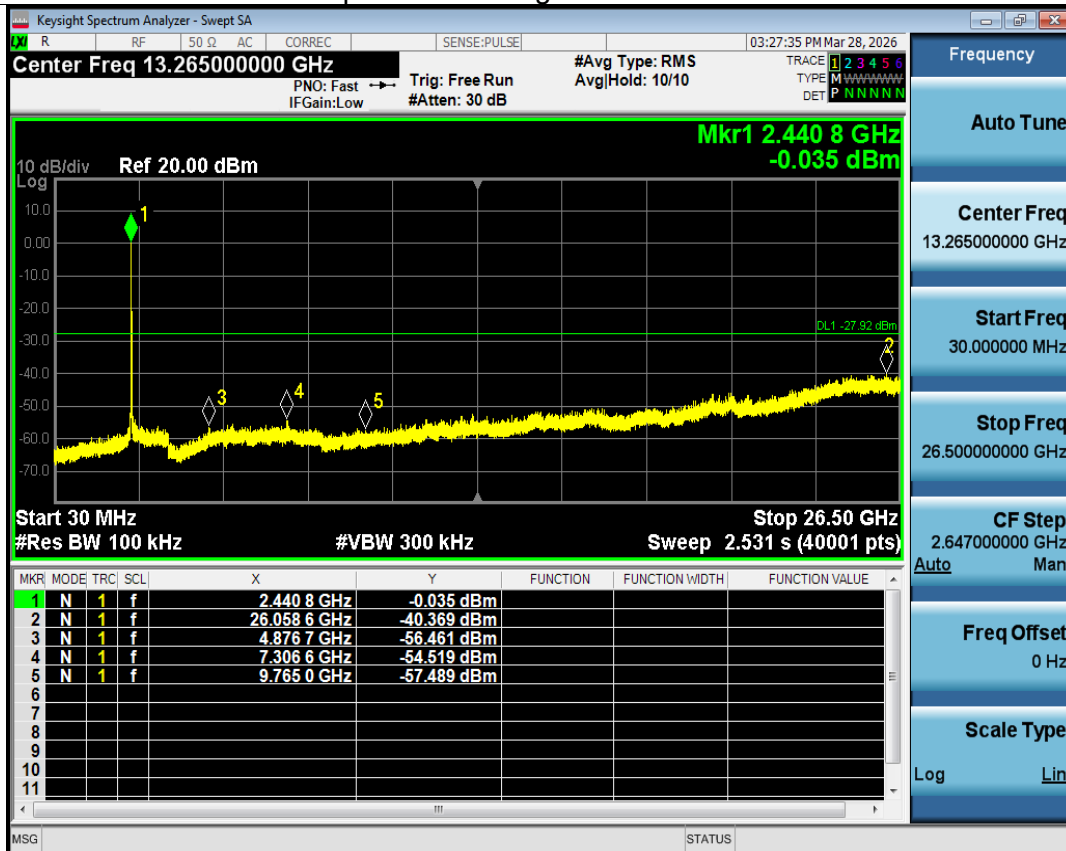
Tx. Spurious NVNT g 2412MHz Ant1 Ref



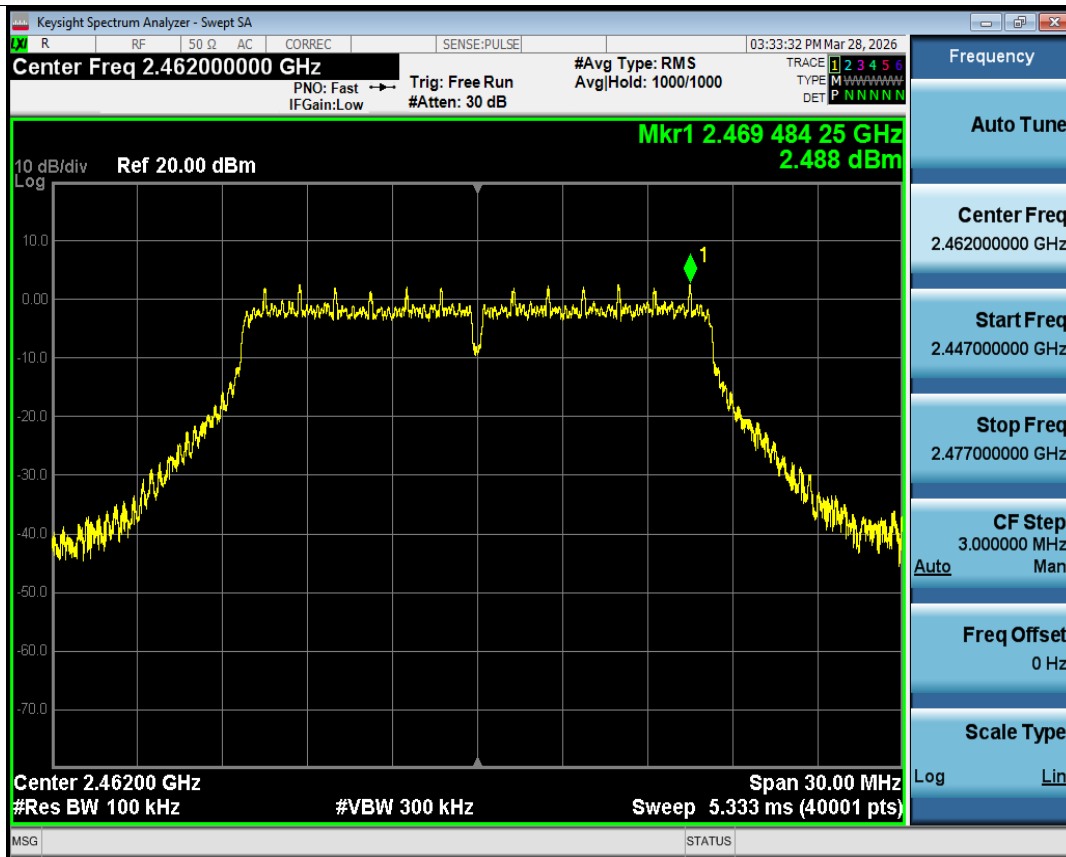
Tx. Spurious NVNT g 2412MHz Ant1 Emission



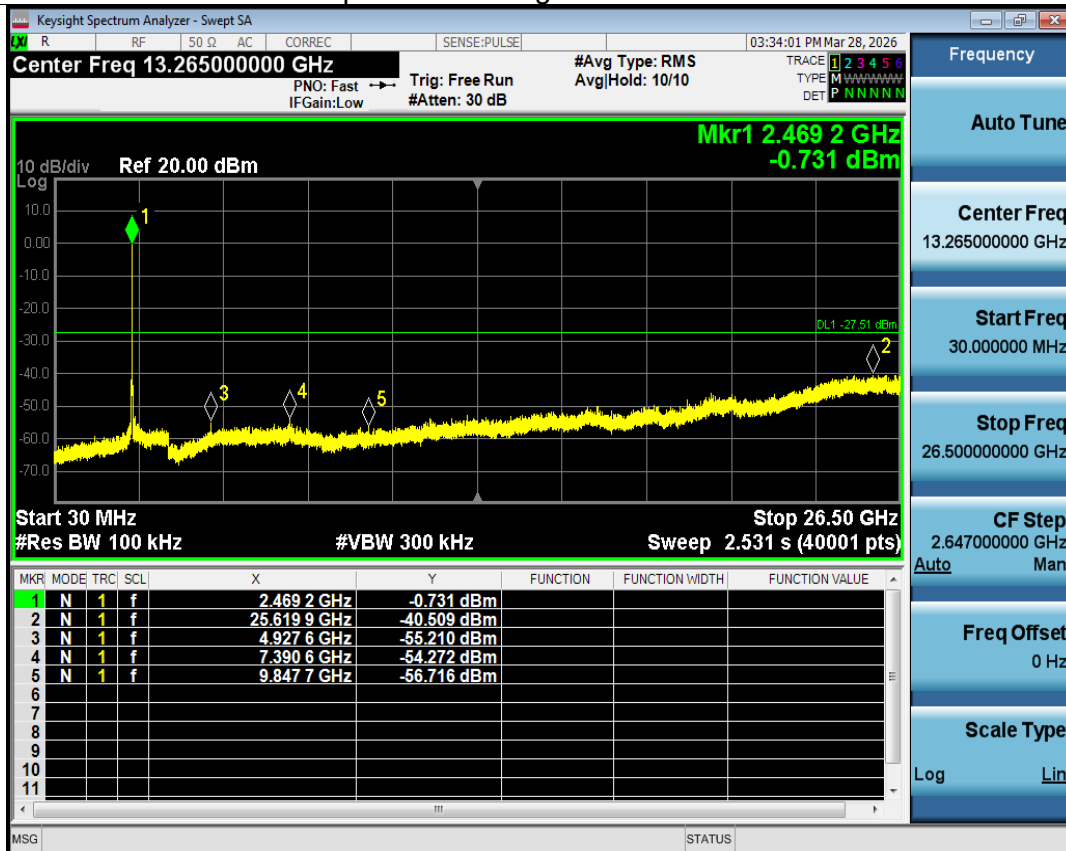
Tx. Spurious NVNT g 2437MHz Ant1 Ref



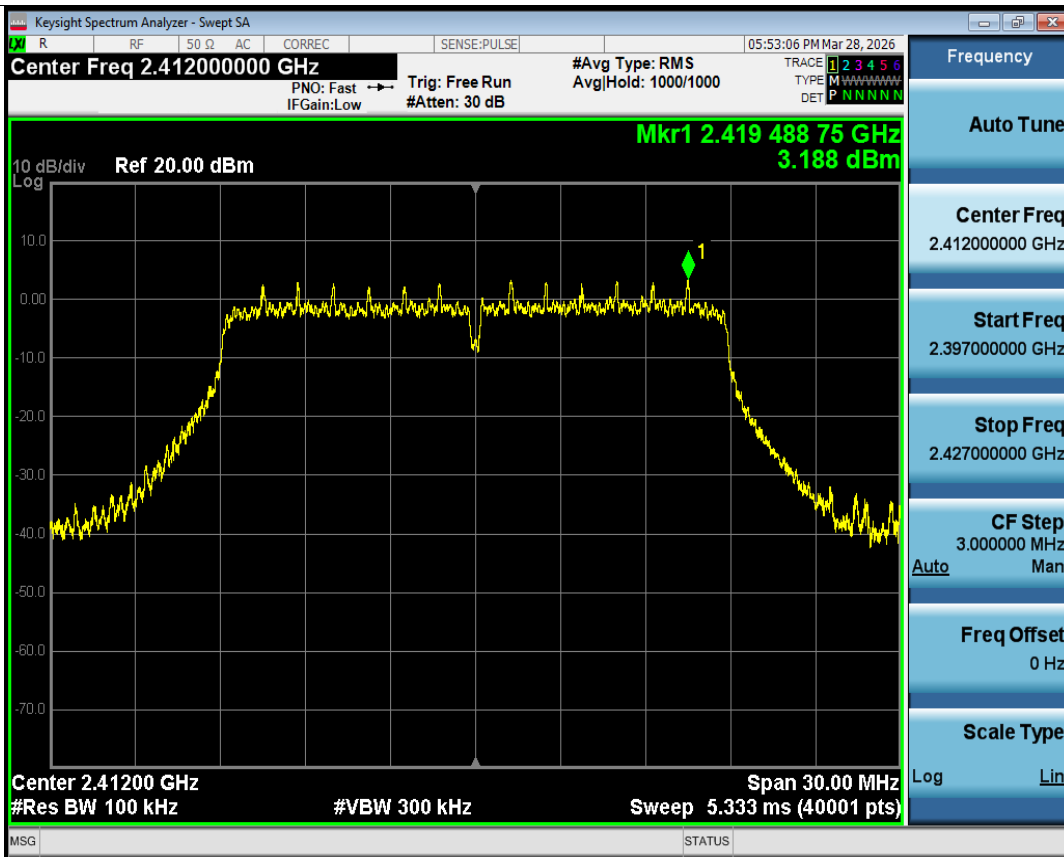
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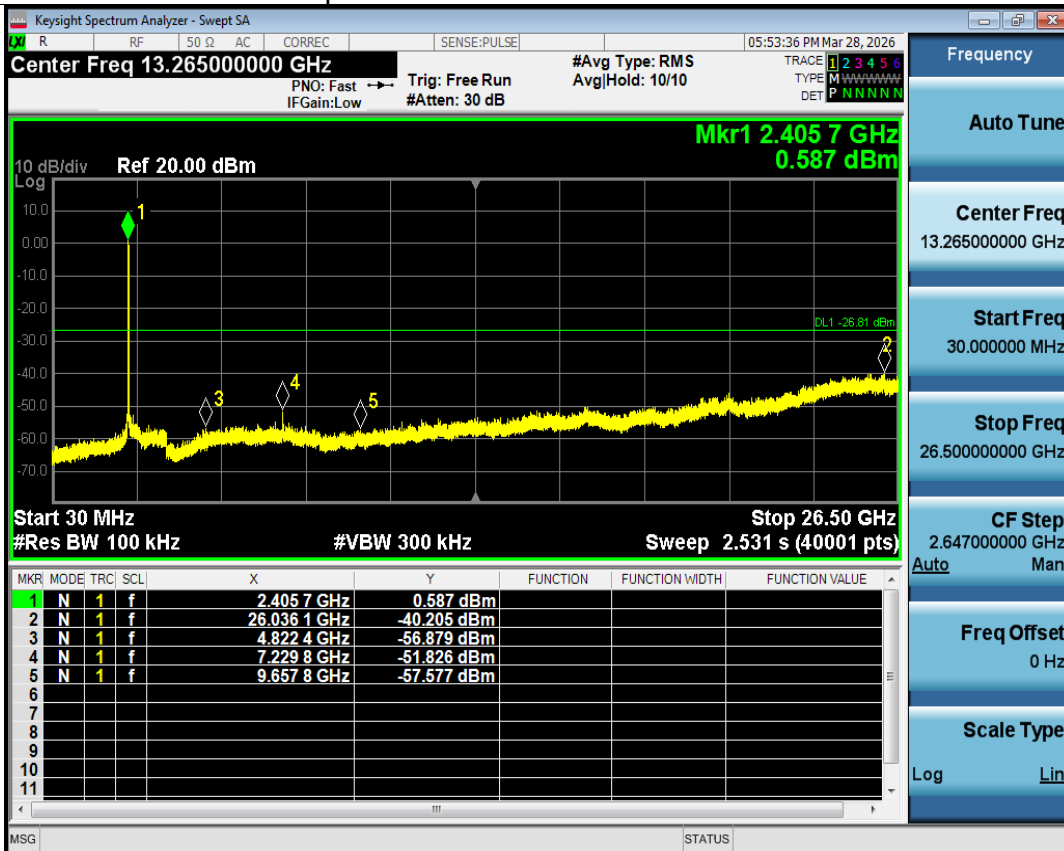
Tx. Spurious NVNT g 2462MHz Ant1 Ref



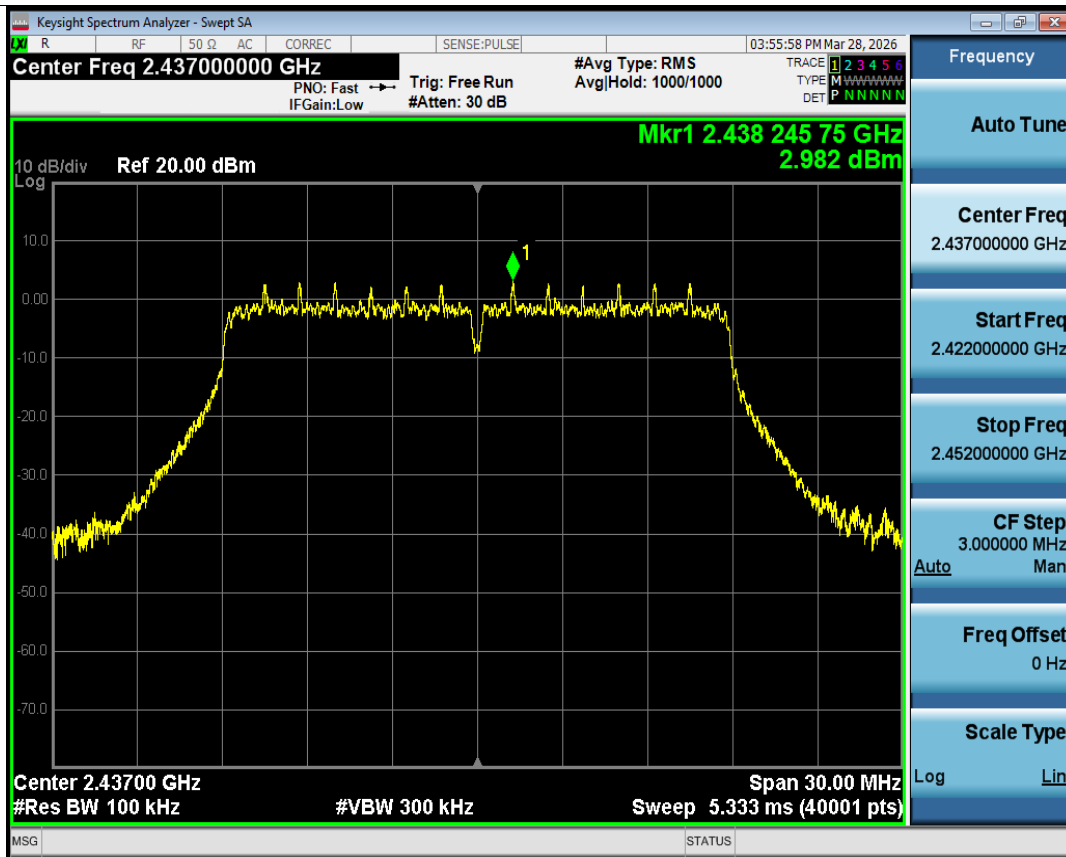
Tx. Spurious NVNT g 2462MHz Ant1 Emission



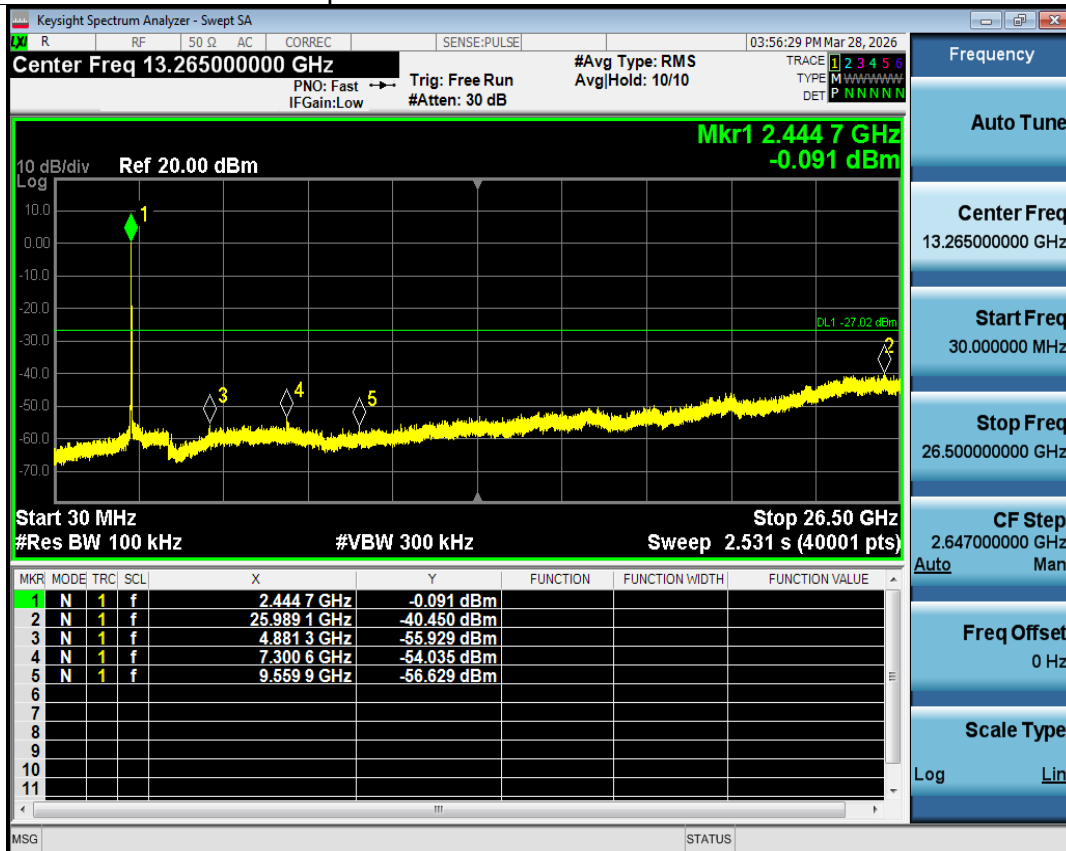
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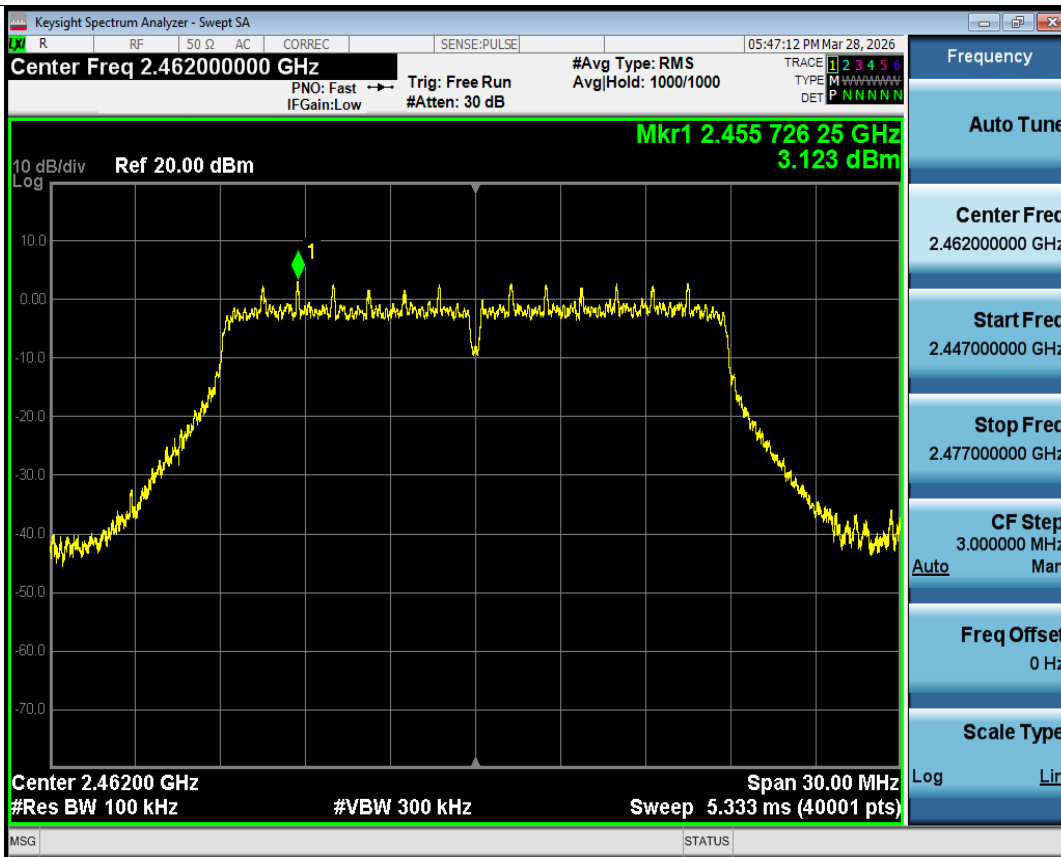
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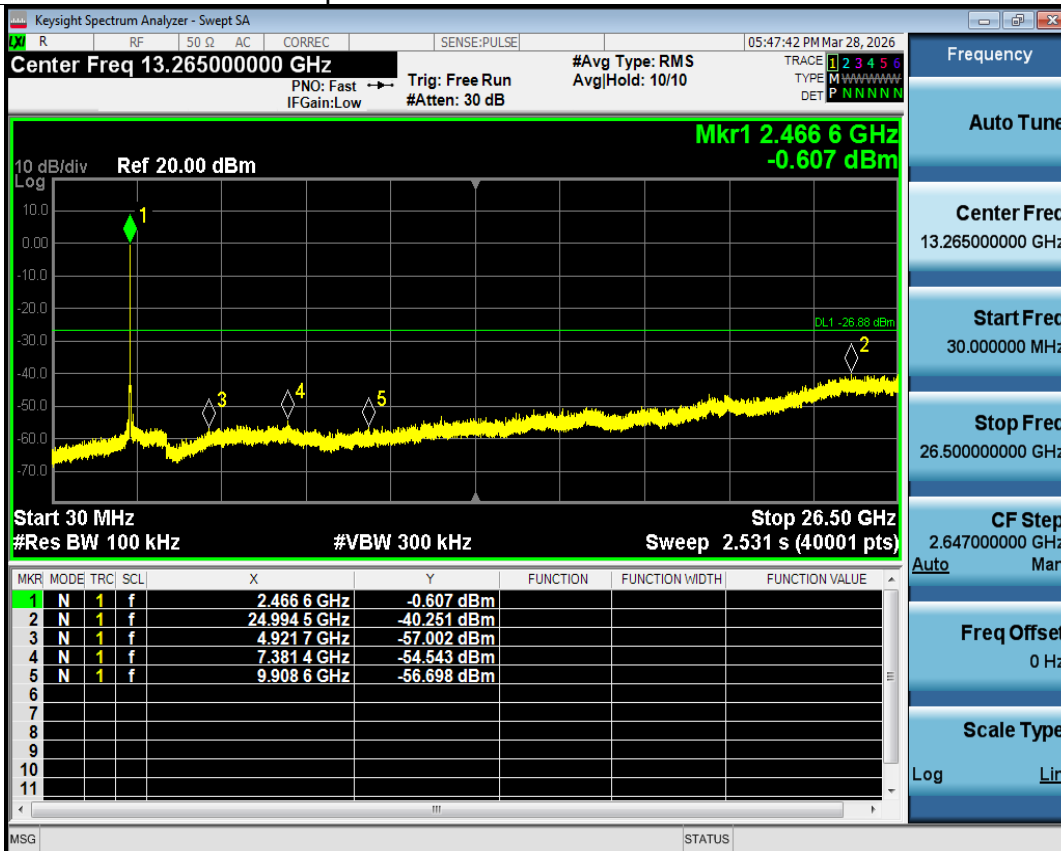
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission

END OF REPORT