TCT 通测检测 TESTING CENTRE TECHNOLOGY

TEST REPORT

FCC ID. ..... :	2AYT3-PREMIUM200
Test Report No..... :	TCT241205E016
Date of issue..... :	Jan. 14, 2025
Testing laboratory ..... :	SHENZHEN TONGCE TESTING LAB
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China
Applicant's name..... :	SHENZHEN POWEROAK NEWENER CO., LTD
Address..... :	F19, BLD No.1, Kaidaer Tongsha Rd No.168, Xili Street, Nanshan, Shenzhen, China
Manufacturer's name ... :	SHENZHEN POWEROAK NEWENER CO., LTD
Address..... :	F19, BLD No.1, Kaidaer Tongsha Rd No.168, Xili Street, Nanshan, Shenzhen, China
Standard(s) ..... :	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2020
Product Name..... :	Portable Power Station
Trade Mark ..... :	BLUETTI
Model/Type reference..... :	Premium 200 V2
Rating(s)..... :	Refer to EUT description of page 3
Date of receipt of test item ..... :	Dec. 05, 2024
Date (s) of performance of test..... :	Dec. 05, 2024 ~ Jan. 14, 2025
Tested by (+signature) ... :	Rleo LIU
Check by (+signature).... :	Beryl ZHAO
Approved by (+signature):	Tomsin

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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

1. General Product Information

1.1. EUT description

Product Name.....:	Portable Power Station
Model/Type reference.....:	Premium 200 V2
Hardware Version.....:	19.0601.1063
Software Version.....:	2189-03
Sample Number.....:	TCT241205E014-0101
Bluetooth Version .....:	V5.0
Operation Frequency.....:	2402MHz~2480MHz
Channel Separation .....:	2MHz
Data Rate.....:	LE 1M PHY, LE 2M PHY, LE_S2, LE_S8
Number of Channel.....:	40
Modulation Type.....:	GFSK
Antenna Type.....:	PCB Antenna
Antenna Gain.....:	3.18dBi
Rating(s).....:	AC Input: AC 120V, 50/60Hz, 15A Max. DC/PV Input: DC 12V-60V, 20A, 1000W AC Output: AC 120V, 50/60Hz, 2700W Total USB-A Output: DC 5V, 3A, 15W Each port USB-C Output: DC 5/9/12/15/20V, 3A, DC 20V, 5A Each port (With E-Marker chip built in) Cigarette Lighter Port Output: DC 12V, 10A AC&DC Output: 2800W Total Battery Capacity: DC 38.4V, 54Ah, 2073.6Wh

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

None.

1.3. Operation Frequency

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
…	…	…	…	…	…	…	…
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Remark: Channel 0, 19 & 39 have been tested.							

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2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

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3. General Information

3.1. Test environment and mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	22.8 °C	24.4 °C
Humidity:	49 % RH	49 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Software:		
Software Information:	EspRFTestTool_v3.6_Manual	
Power Level:	LE1M/2M/LE_S2/LE_S8: 14	
Test Mode:		
Engineer mode:	Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery.	

The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case (Z axis) are shown in Test Results of the following pages.

3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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4. Facilities and Accreditations

4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

  SHENZHEN TONGCE TESTING LAB

  Designation Number: CN1205

  The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A

  SHENZHEN TONGCE TESTING LAB

  CAB identifier: CN0031

  The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	6dB Emission Bandwidth	±57.75KHz
5	Power Spectral Density	±1.46dB
6	Duty Cycle	±0.62dB
7	All emissions, radiated(<1 GHz)	± 4.56 dB
8	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
9	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

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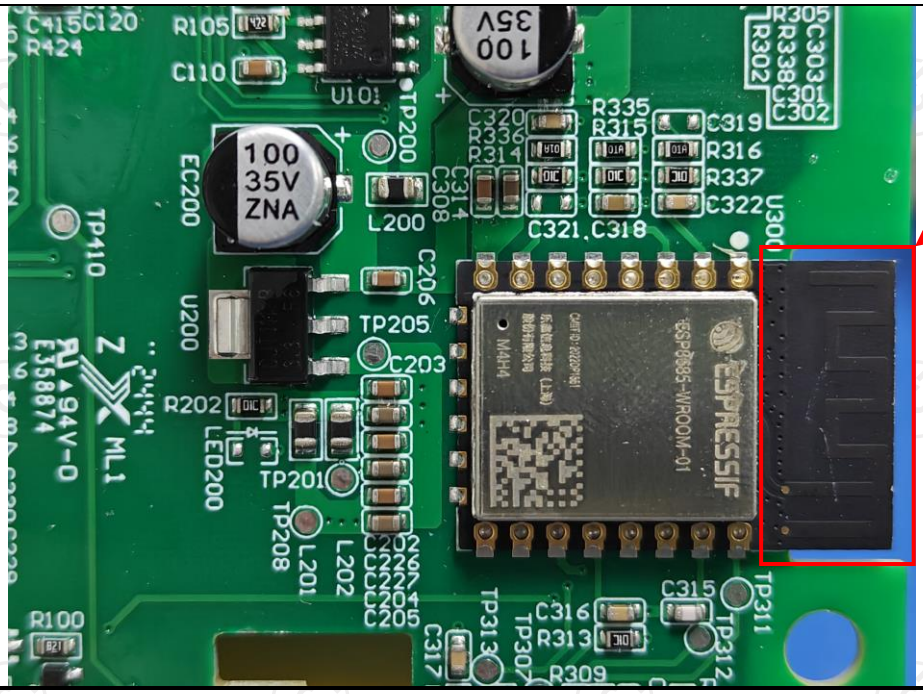
5. Test Results and Measurement Data

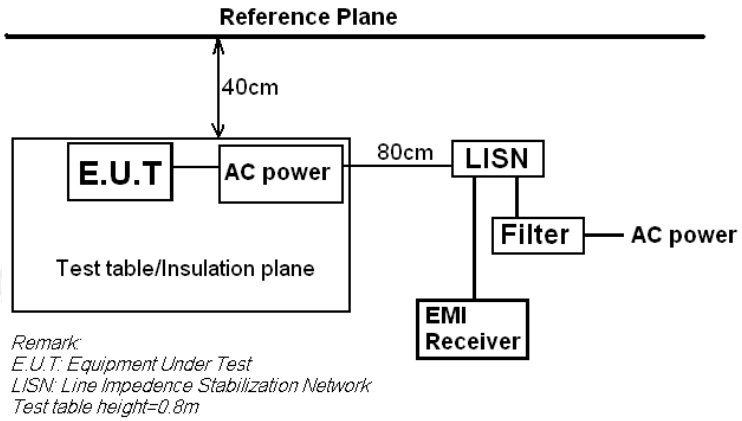
5.1. Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: 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, 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. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
E.U.T Antenna:	
The Bluetooth antenna is PCB antenna which permanently attached, and the best case gain of the antenna is 3.18dBi.	



5.2. Conducted Emission

5.2.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.207</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2020</td></tr>
<tr><td>Frequency Range:</td><td>150 kHz to 30 MHz</td></tr>
<tr><td>Receiver setup:</td><td>RBW=9 kHz, VBW=30 kHz, Sweep time=auto</td></tr>
<tr><td>Limits:</td><td>
<table>
<tr><td rowspan="2">Frequency range (MHz)</td><td colspan="2">Limit (dBuV)</td></tr>
<tr><td>Quasi-peak</td><td>Average</td></tr>
<tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr>
<tr><td>0.5-5</td><td>56</td><td>46</td></tr>
<tr><td>5-30</td><td>60</td><td>50</td></tr>
</table>
</td></tr>
<tr><td>Test Setup:</td><td> 

Remark:
E.U.T: Equipment Under Test
LISN: Line Impedence Stabilization Network
Test table height=0.8m</td></tr>
<tr><td>Test Mode:</td><td>Charging + Transmitting Mode</td></tr>
<tr><td>Test Procedure:</td><td>1. The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2020 on conducted measurement.</td></tr>
<tr><td>Test Result:</td><td>PASS</td></tr>
</table>

5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)				
Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
EMI Test Receiver	R&S	ESCI3	100898	Jun. 26, 2025
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 31, 2025
Attenuator	N/A	10dB	164080	Jun. 26, 2025
Line-5	TCT	CE-05	/	Jun. 26, 2025
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2	/

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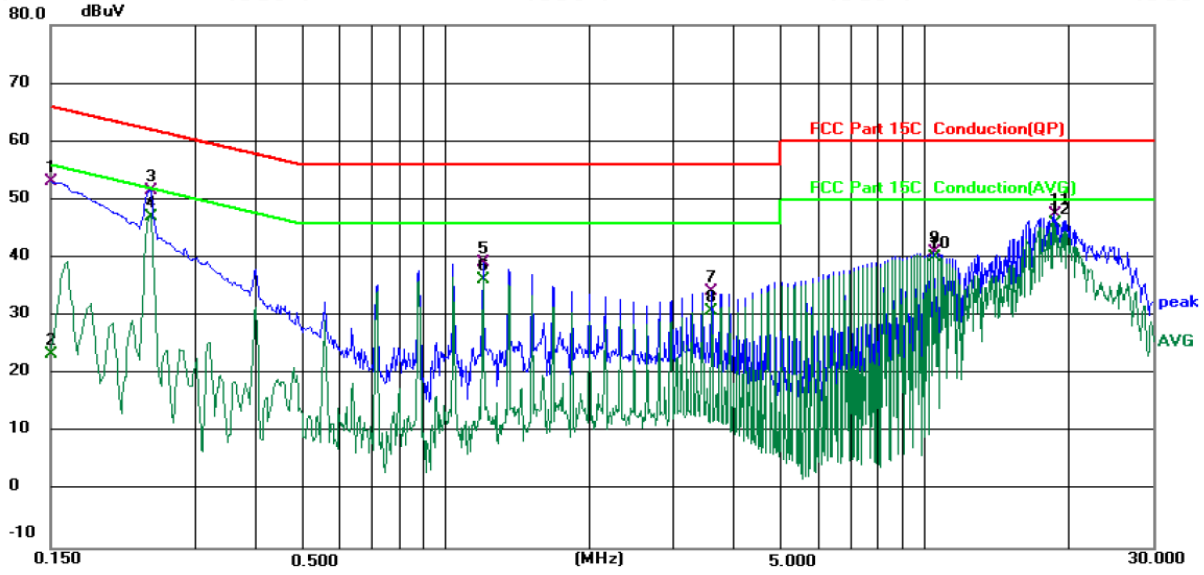
5.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room
Phase: *L1*
Temperature: 22.8 (℃)
Humidity: 49 %

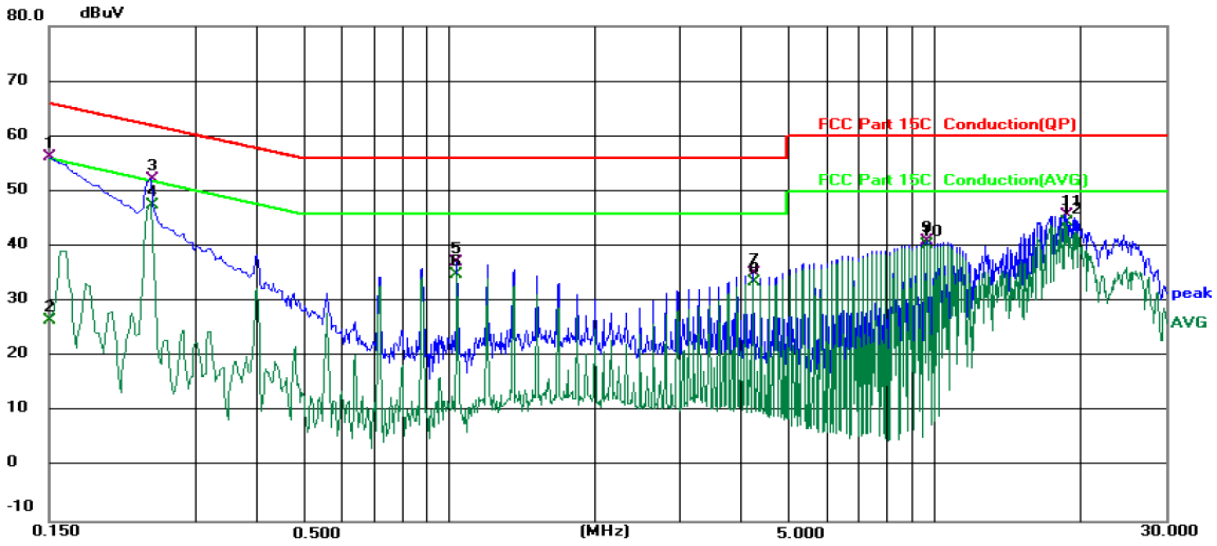
Limit: FCC Part 15C Conduction(QP)
Power: AC 120 V/60 Hz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	43.38	9.67	53.05	66.00	-12.95	QP	
2		0.1500	13.65	9.67	23.32	56.00	-32.68	AVG	
3		0.2419	41.92	9.65	51.57	62.03	-10.46	QP	
4		0.2419	37.37	9.65	47.02	52.03	-5.01	AVG	
5		1.2019	29.36	9.76	39.12	56.00	-16.88	QP	
6		1.2019	26.45	9.76	36.21	46.00	-9.79	AVG	
7		3.6019	24.28	10.04	34.32	56.00	-21.68	QP	
8		3.6019	20.86	10.04	30.90	46.00	-15.10	AVG	
9		10.4779	30.72	10.32	41.04	60.00	-18.96	QP	
10		10.4779	29.84	10.32	40.16	50.00	-9.84	AVG	
11		18.6419	37.22	10.30	47.52	60.00	-12.48	QP	
12	*	18.6419	35.66	10.30	45.96	50.00	-4.04	AVG	

Note:

Freq. = Emission frequency in MHz
Reading level (dBμV) = Receiver reading
Corr. Factor (dB) = LISN factor + Cable loss
Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)
Limit (dBμV) = Limit stated in standard
Margin (dB) = Measurement (dBμV) – Limits (dBμV)
Q.P. =Quasi-Peak
AVG =average
** is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz*

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room
Phase: N
Temperature: 22.8 (℃)
Humidity: 49 %

Limit: FCC Part 15C Conduction(QP)
Power: AC 120 V/60 Hz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	46.63	9.65	56.28	66.00	-9.72	QP	
2		0.1500	16.97	9.65	26.62	56.00	-29.38	AVG	
3		0.2420	42.49	9.63	52.12	62.03	-9.91	QP	
4	*	0.2420	37.97	9.63	47.60	52.03	-4.43	AVG	
5		1.0420	26.35	10.74	37.09	56.00	-18.91	QP	
6		1.0420	24.14	10.74	34.88	46.00	-11.12	AVG	
7		4.2420	25.18	10.02	35.20	56.00	-20.80	QP	
8		4.2420	23.44	10.02	33.46	46.00	-12.54	AVG	
9		9.6820	30.63	10.30	40.93	60.00	-19.07	QP	
10		9.6820	30.04	10.30	40.34	50.00	-9.66	AVG	
11		18.6420	35.47	10.24	45.71	60.00	-14.29	QP	
12		18.6420	34.19	10.24	44.43	50.00	-5.57	AVG	

Note1:

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Q.P. =Quasi-Peak

AVG =average

** is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.*

Note2: *Speed for 1M, 2M, S2 and S8 modulations of EUT have been tested, but the test data only show the worst case in this report, and we found the worst case is 2M speed modulation. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Lowest channel) was submitted only.*

5.3. Conducted Output Power

5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074 D01 v05r02
Limit:	30dBm
Test Setup:	
Test Mode:	Refer to item 3.1
Test Procedure:	Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level.
Test Result:	PASS

5.3.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

5.4. Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074 D01 v05r02
Limit:	>500kHz
Test Setup:	
Test Mode:	Refer to item 3.1
Test Procedure:	1. Set to the maximum power setting and enable the EUT transmit continuously. 2. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 3. Measure and record the results in the test report.
Test Result:	PASS

5.4.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

5.5. Power Spectral Density

5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074 D01 v05r02
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	
Test Mode:	Refer to item 3.1
Test Procedure:	1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) 4. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. 5. Measure and record the results in the test report.
Test Result:	PASS

5.5.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

5.6. Conducted Band Edge and Spurious Emission Measurement

5.6.1. Test Specification

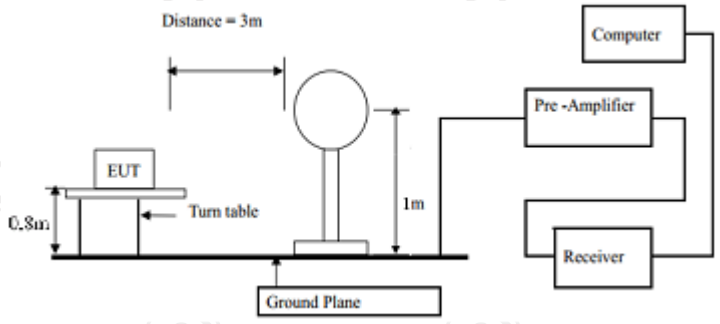
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 v05r02
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	
Test Mode:	Refer to item 3.1
Test Procedure:	1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

5.6.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

5.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2020</td></tr>
<tr><td>Frequency Range:</td><td>9 kHz to 25 GHz</td></tr>
<tr><td>Measurement Distance:</td><td>3 m</td></tr>
<tr><td>Antenna Polarization:</td><td>Horizontal & Vertical</td></tr>
<tr><td>Operation mode:</td><td>Refer to item 3.1</td></tr>
<tr><td>Receiver Setup:</td><td>
<table>
<tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr>
<tr><td>9kHz- 150kHz</td><td>Quasi-peak</td><td>200Hz</td><td>1kHz</td><td>Quasi-peak Value</td></tr>
<tr><td>150kHz-30MHz</td><td>Quasi-peak</td><td>9kHz</td><td>30kHz</td><td>Quasi-peak Value</td></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td>Frequency</td><td>Field Strength (microvolts/meter)</td><td>Measurement Distance (meters)</td></tr>
<tr><td>0.009-0.490</td><td>2400/F(KHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(KHz)</td><td>30</td></tr>
<tr><td>1.705-30</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100</td><td>3</td></tr>
<tr><td>88-216</td><td>150</td><td>3</td></tr>
<tr><td>216-960</td><td>200</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
<table>
<tr><td>Frequency</td><td>Field Strength (microvolts/meter)</td><td>Measurement Distance (meters)</td><td>Detector</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>500</td><td>3</td><td>Average</td></tr>
<tr><td>5000</td><td>3</td><td>Peak</td></tr>
</table>
</td></tr>
<tr><td>Test setup:</td><td>For radiated emissions below 30MHz
 

30MHz to 1GHz</td></tr>
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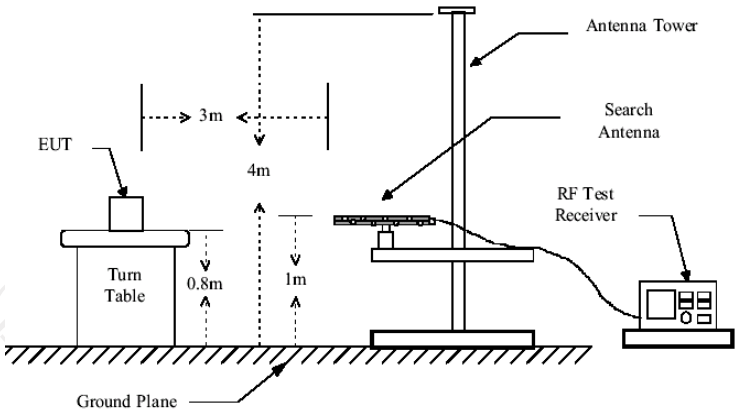
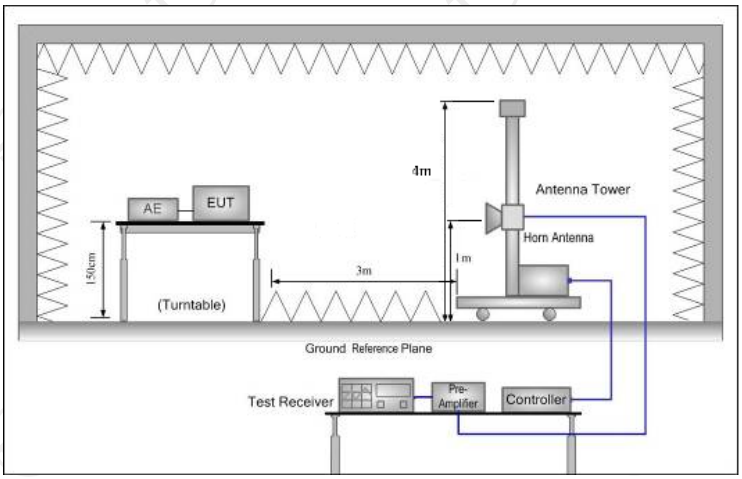


Above 1GHz


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</tr>
<tr>
<td>Test Procedure:</td>
<td>1. For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. 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.
For the radiated emission test above 1GHz:
Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final</td>
</tr>
</table>

	measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 3. For measurement below 1GHz, 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. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=120 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f >1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test mode:	Refer to section 3.1 for details
Test results:	PASS

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5.7.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
EMI Test Receiver	R&S	ESCI7	100529	Jan. 31, 2025
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Jan. 31, 2025
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Jan. 31, 2025
Pre-amplifier	HP	8447D	2727A05017	Jun. 26, 2025
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 26, 2025
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 02, 2025
Coaxial cable	SKET	RE-03-D	/	Jun. 26, 2025
Coaxial cable	SKET	RE-03-M	/	Jun. 26, 2025
Coaxial cable	SKET	RE-03-L	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-D	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-M	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-L	/	Jun. 26, 2025
Antenna Mast	Keleto	RE-AM	/	/
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	/

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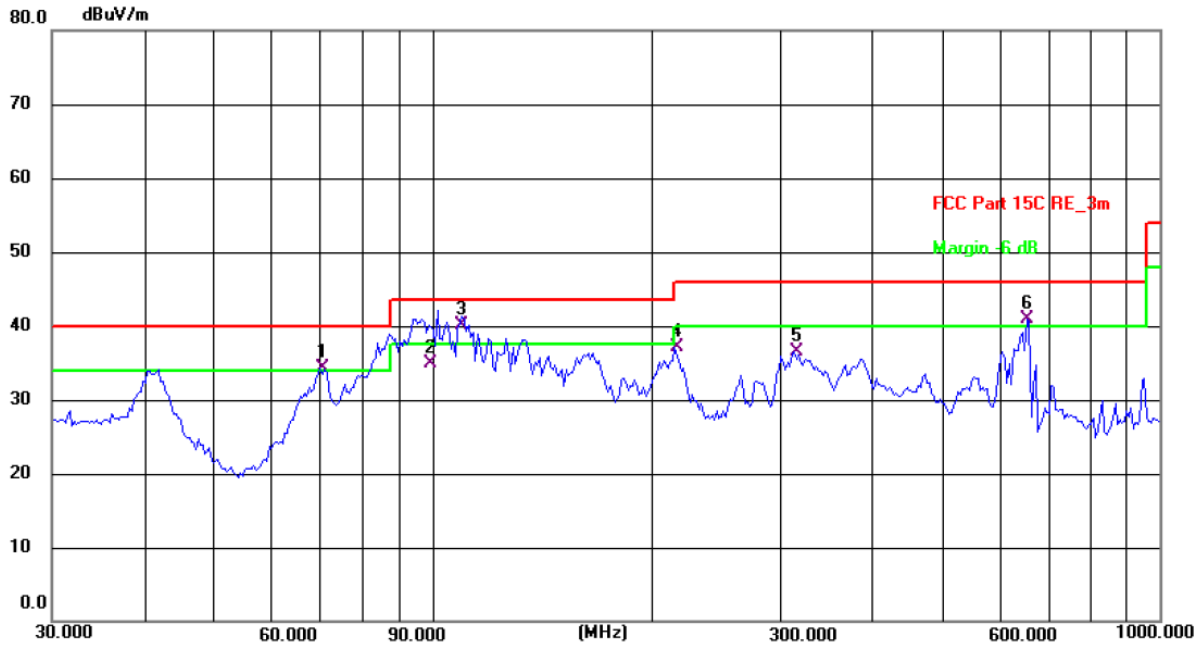
5.7.3. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:

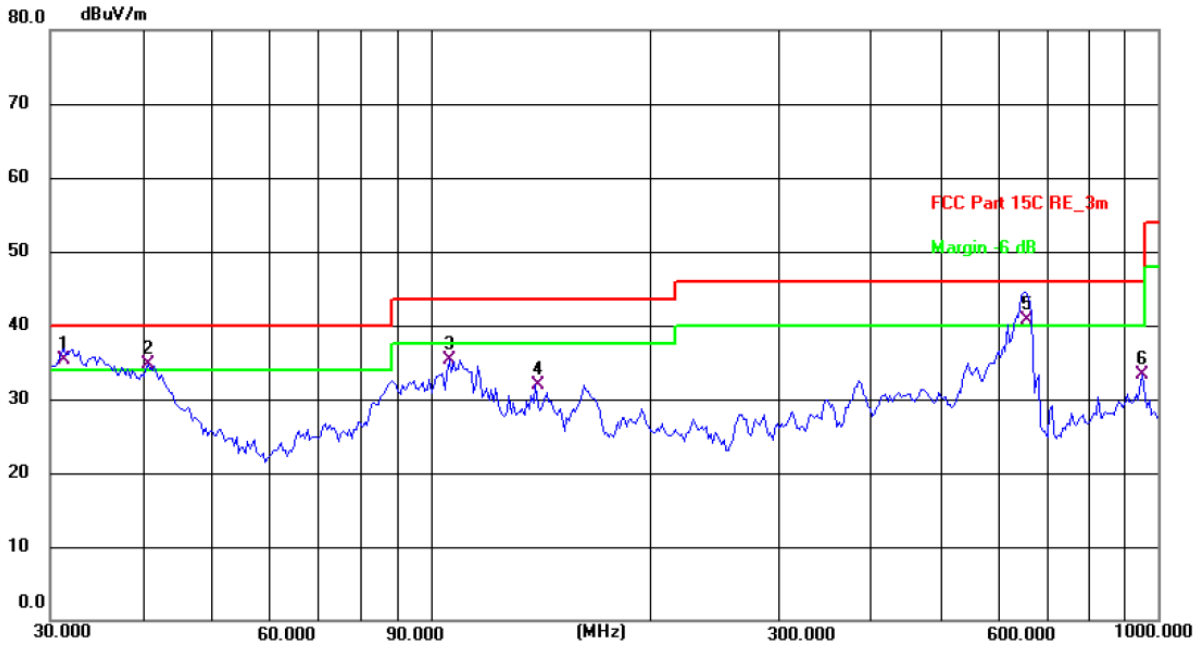


Site: 3m Anechoic Chamber1 Polarization: *Horizontal* Temperature: 24.4(C) Humidity: 49 %

Limit: FCC Part 15C RE_3m Power: DC 38.4V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 !	70.0902	48.45	-14.24	34.21	40.00	-5.79	QP	P	
2	99.2800	50.30	-15.48	34.82	43.50	-8.68	QP	P	
3 *	109.7959	54.88	-14.76	40.12	43.50	-3.38	QP	P	
4	215.2678	52.07	-15.05	37.02	43.50	-6.48	QP	P	
5	314.3764	46.96	-10.46	36.50	46.00	-9.50	QP	P	
6 !	656.5300	44.89	-3.94	40.95	46.00	-5.05	QP	P	

Vertical:



Site: 3m Anechoic Chamber1 Polarization: *Vertical* Temperature: 24.4(C) Humidity: 49 %

Limit: FCC Part 15C RE_3m Power: DC 38.4V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	31.2892	48.24	-13.00	35.24	40.00	-4.76	QP	P	
2 !	40.8444	46.60	-11.83	34.77	40.00	-5.23	QP	P	
3	106.0126	50.23	-14.88	35.35	43.50	-8.15	QP	P	
4	139.3611	44.09	-12.18	31.91	43.50	-11.59	QP	P	
5 !	656.6800	44.58	-3.94	40.64	46.00	-5.36	QP	P	
6	952.0937	33.44	-0.20	33.24	46.00	-12.76	QP	P	

Note: *1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported*

2. Speed for 1M, 2M, S2 and S8 modulations of EUT have been tested, but the test data only show the worst case in this report, and we found the worst case is 2M speed modulation. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Lowest channel) was submitted only.

3. Freq. = Emission frequency in MHz

Measurement (dBμV/m) = Reading level (dBμV) + Corr. Factor (dB)

Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

Limit (dBμV/m) = Limit stated in standard

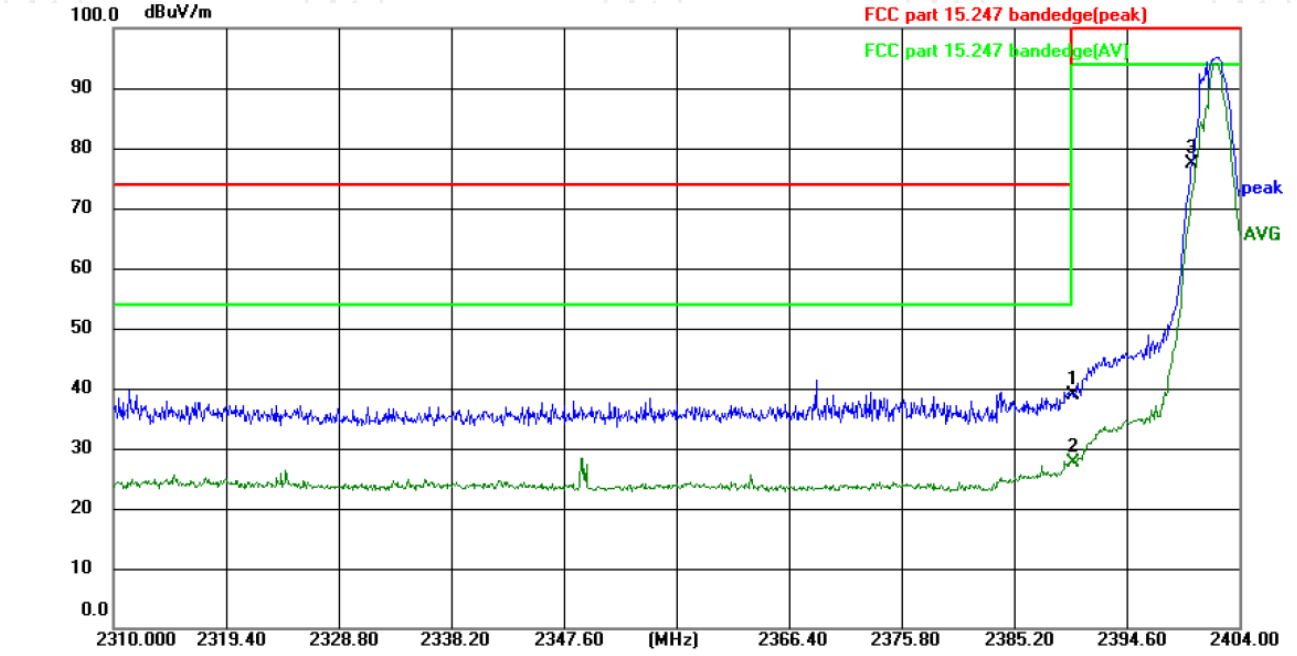
Margin (dB) = Measurement (dBμV/m) – Limits (dBμV/m)

** is meaning the worst frequency has been tested in the test frequency range*

Test Result of Radiated Spurious at Band edges

Lowest channel 2402:

Horizontal:

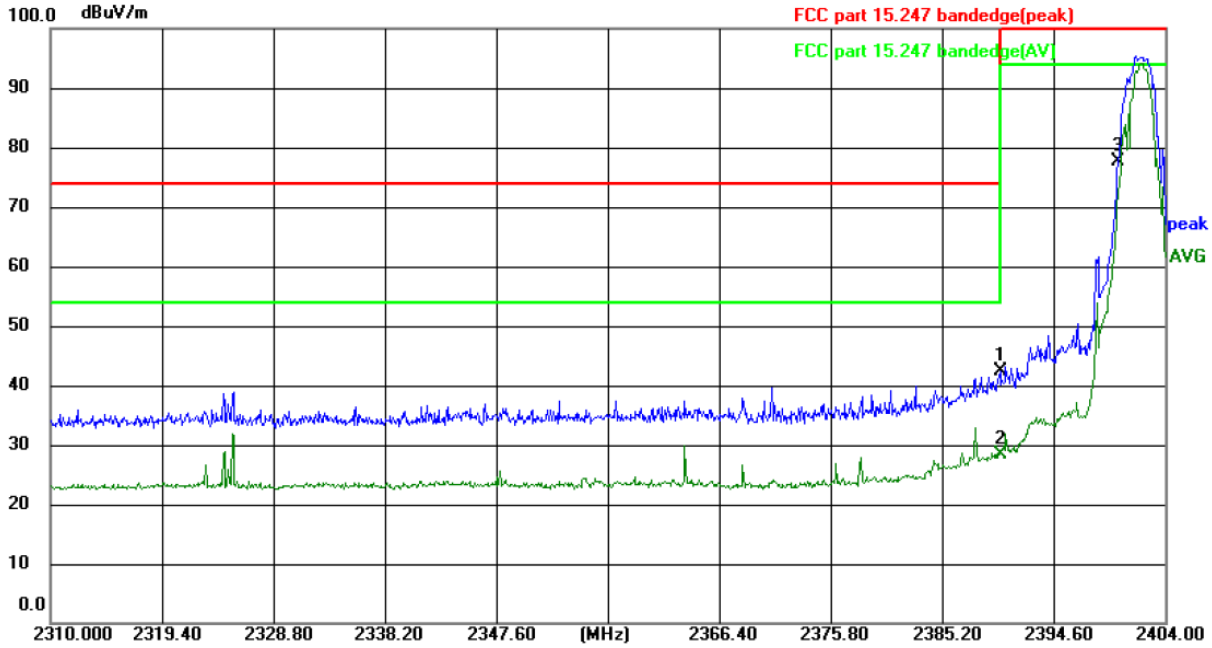


Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 22.9(℃) Humidity: 63 %

Limit: FCC part 15.247 bandedge(peak) Power:DC 38.4V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2390.000	55.59	-16.64	38.95	74.00	-35.05	peak	P	
2 *	2390.000	44.19	-16.64	27.55	54.00	-26.45	AVG	P	
3	2400.000	94.12	-16.62	77.50	114.00	-36.50	peak	P	

Vertical:



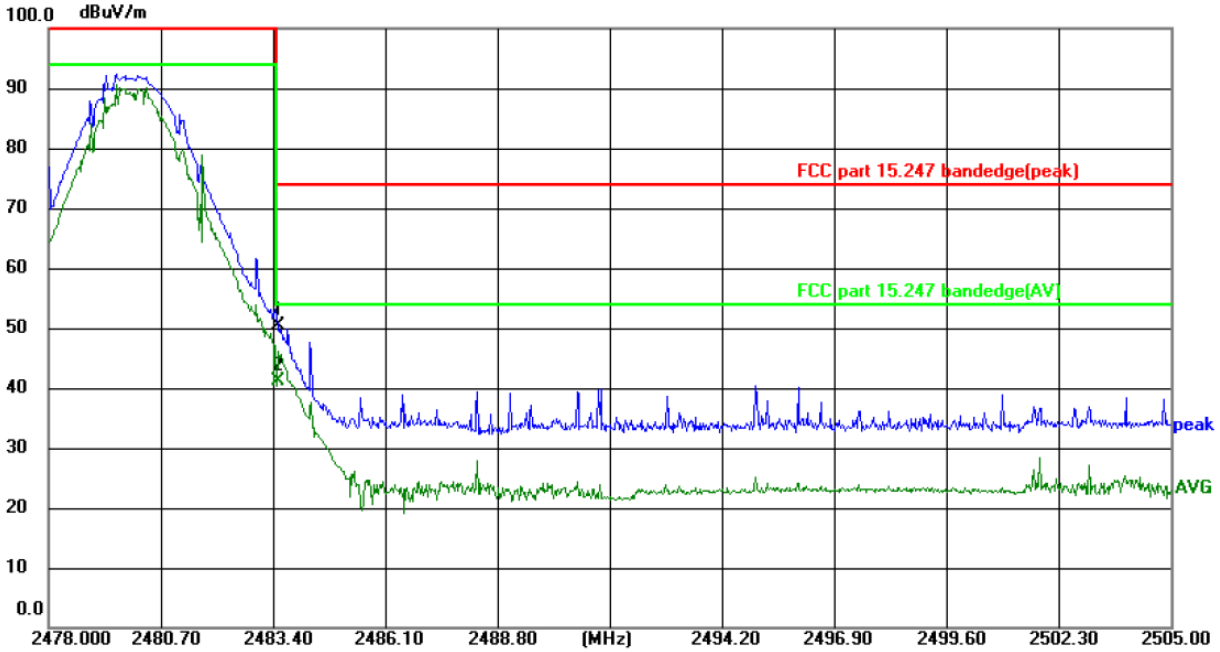
Site: 3m Anechoic Chamber Polarization: *Vertical* Temperature: 22.9(℃) Humidity: 63 %

Limit: FCC part 15.247 bandedge(peak) Power:DC 38.4V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2390.000	59.14	-16.64	42.50	74.00	-31.50	peak	P	
2 *	2390.000	44.91	-16.64	28.27	54.00	-25.73	AVG	P	
3	2400.000	94.19	-16.62	77.57	114.00	-36.43	peak	P	

Highest channel 2480:

Horizontal:

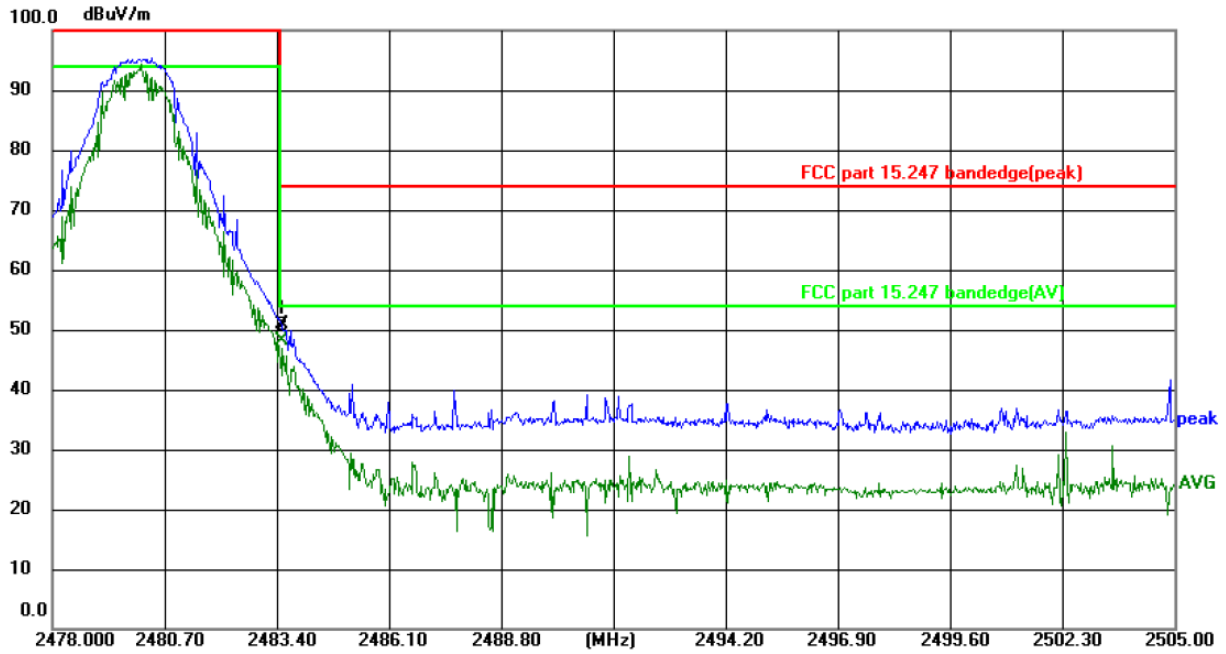


Site: 3m Anechoic Chamber Polarization: *Horizontal* Temperature: 22.9(℃) Humidity: 63 %

Limit: FCC part 15.247 bandedge(peak) Power:DC 38.4V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2483.500	67.04	-16.60	50.44	74.00	-23.56	peak	P	
2 *	2483.500	57.70	-16.60	41.10	54.00	-12.90	AVG	P	

Vertical:



Site: 3m Anechoic Chamber Polarization: *Vertical* Temperature: 22.9(℃) Humidity: 63 %

Limit: FCC part 15.247 bandedge(peak) Power:DC 38.4V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2483.500	67.58	-16.60	50.98	74.00	-23.02	peak	P	
2 *	2483.500	64.70	-16.60	48.10	54.00	-5.90	AVG	P	

Note: *Speed for 1M, 2M, S2 and S8 modulations of EUT have been tested, but the test data only show the worst case in this report, and we found the worst case is 2M speed modulation.*

Above 1GHz

Low channel: 2402 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4804	H	54.98	---	-9.51	45.47	---	74	54	-8.53
7206	H	45.12	---	-1.41	43.71	---	74	54	-10.29
---	H	---	---	---	---	---	---	---	---
4804	V	56.17	---	-9.51	46.66	---	74	54	-7.34
7206	V	45.80	---	-1.41	44.39	---	74	54	-9.61
---	V	---	---	---	---	---	---	---	---

Middle channel: 2440 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4880	H	55.43	---	-9.36	46.07	---	74	54	-7.93
7320	H	46.01	---	-1.15	44.86	---	74	54	-9.14
---	H	---	---	---	---	---	---	---	---
4880	V	54.26	---	-9.36	44.90	---	74	54	-9.10
7320	V	45.80	---	-1.15	44.65	---	74	54	-9.35
---	V	---	---	---	---	----	---	---	---

High channel: 2480 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4960	H	55.14	---	-9.20	45.94	---	74	54	-8.06
7440	H	44.91	---	-0.96	43.95	---	74	54	-10.05
---	H	---	---	---	---	----	---	---	---
4960	V	53.67	---	-9.20	44.47	---	74	54	-9.53
7440	V	44.61	---	-0.96	43.65	---	74	54	-10.35
---	V	---	---	---	---	---	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*
6. *Speed for 1M, 2M, S2 and S8 modulations of EUT have been tested, but the test data only show the worst case in this report, and we found the worst case is 2M speed modulation.*
7. *All the restriction bands are compliance with the limit of 15.209.*

Appendix A: Test Result of Conducted Test

Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	BLE 1M	2402	88.01	0.55
NVNT	BLE 1M	2440	88.01	0.55
NVNT	BLE 1M	2480	88.01	0.55
NVNT	BLE 2M	2402	60.94	2.15
NVNT	BLE 2M	2440	60.94	2.15
NVNT	BLE 2M	2480	61.54	2.11
NVNT	LE_S2	2402	100	0
NVNT	LE_S2	2440	100	0
NVNT	LE_S2	2480	100	0
NVNT	LE_S8	2402	100	0
NVNT	LE_S8	2440	100	0
NVNT	LE_S8	2480	100	0

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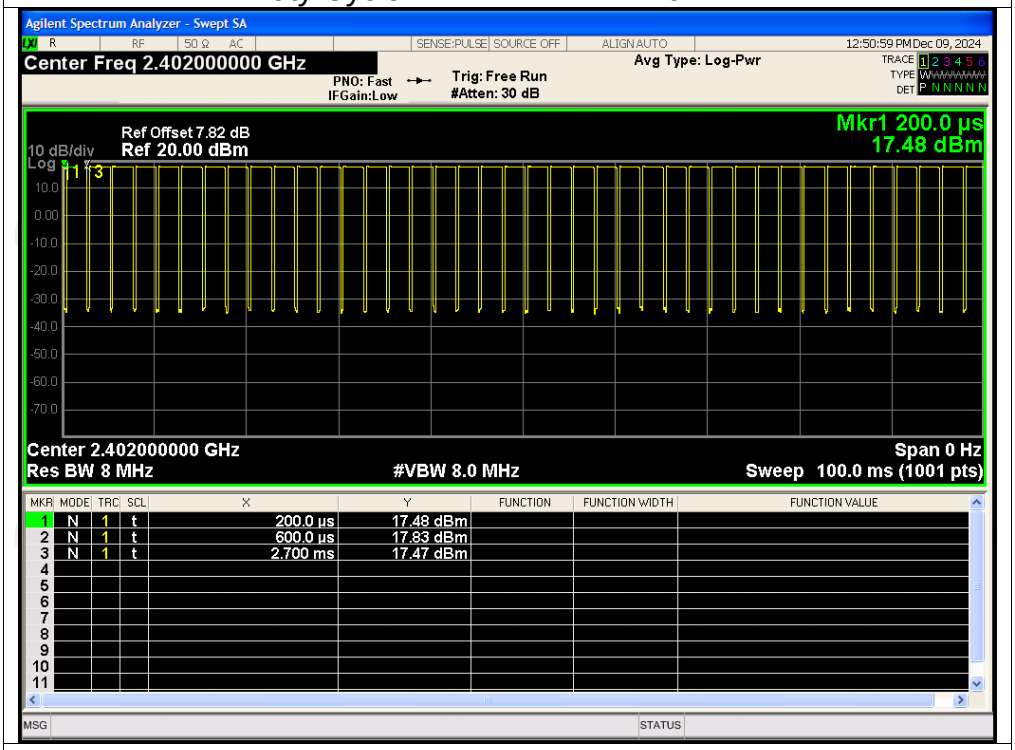
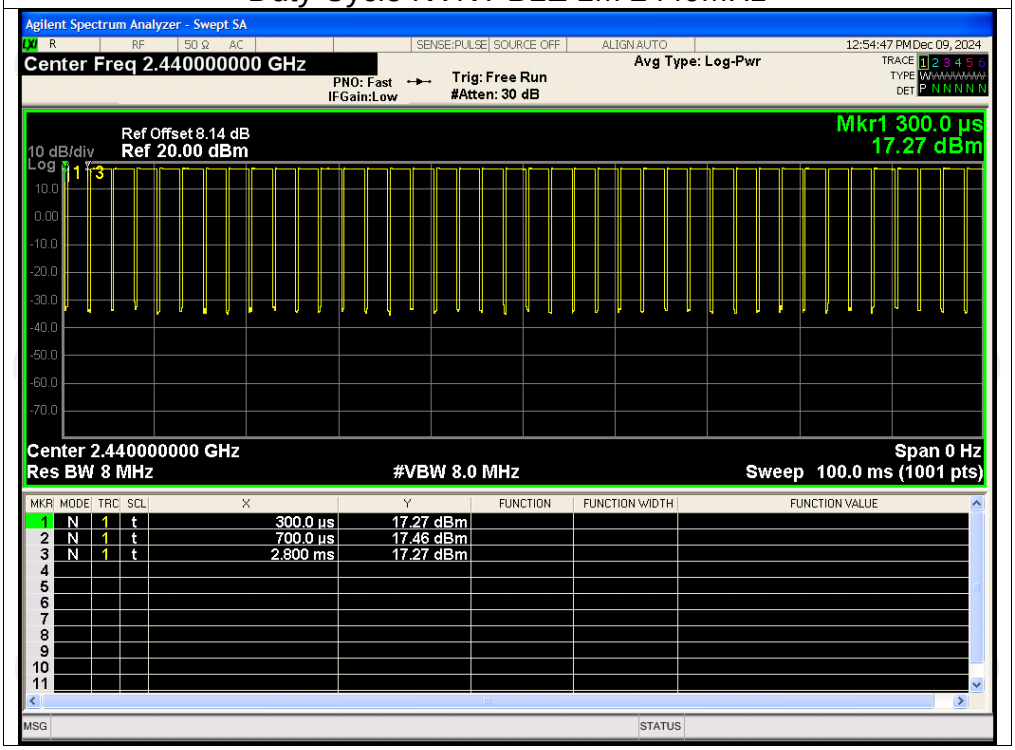
Test Graphs

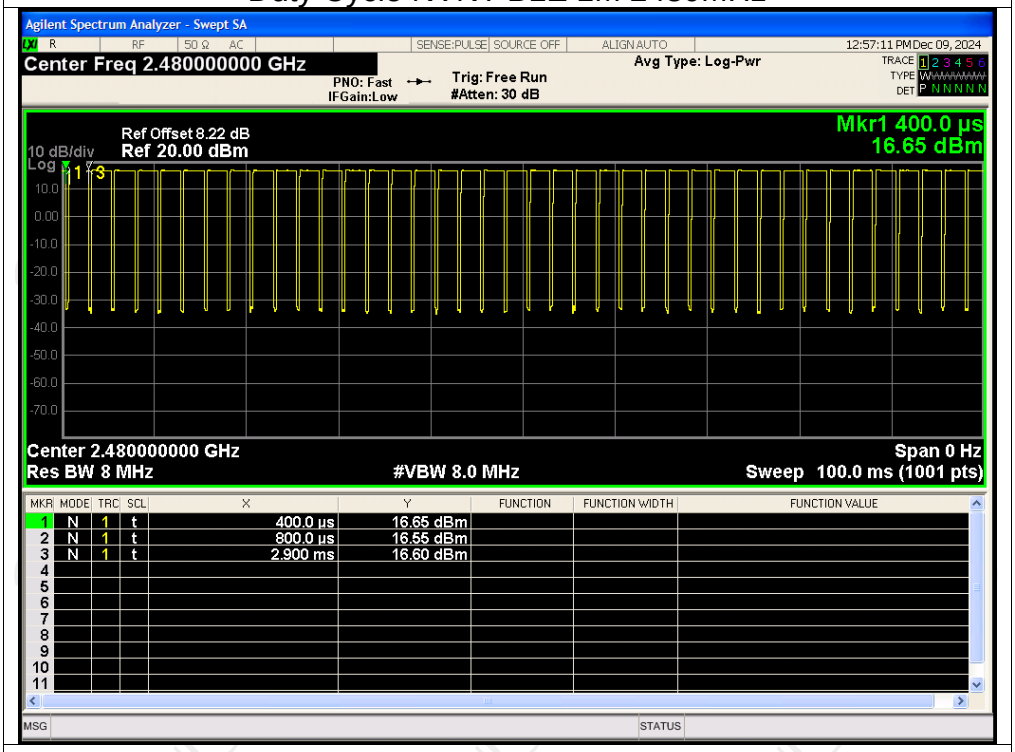
Duty Cycle NVNT BLE 1M 2402MHz



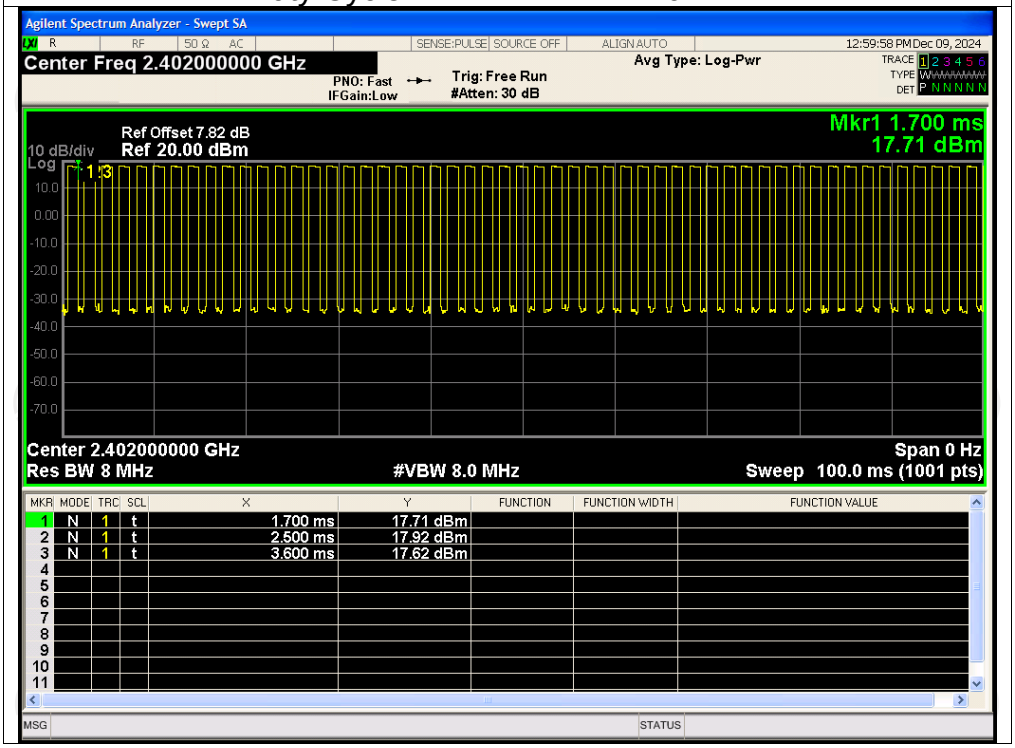
Duty Cycle NVNT BLE 1M 2440MHz



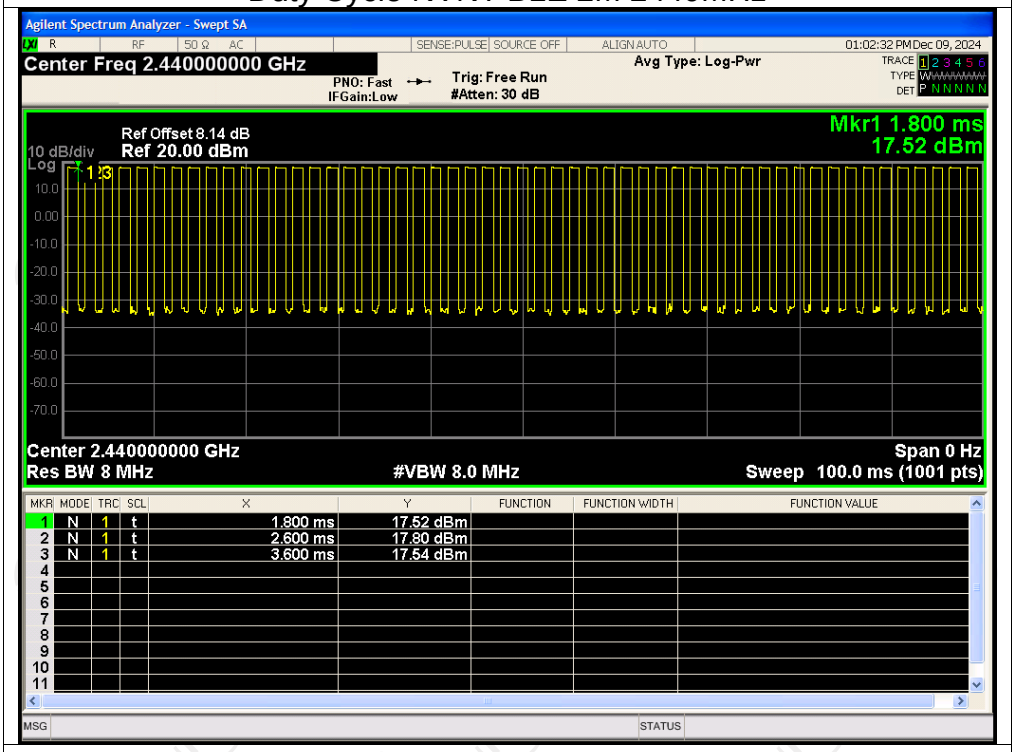
Duty Cycle NVNT BLE 1M 2480MHz



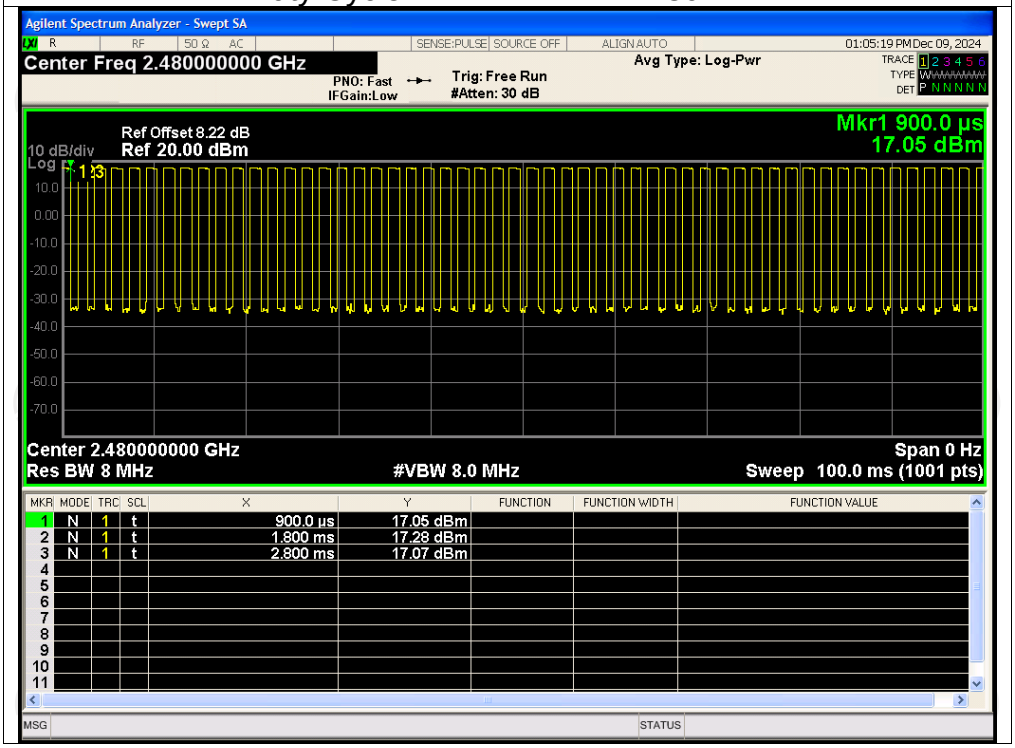
Duty Cycle NVNT BLE 2M 2402MHz



Duty Cycle NVNT BLE 2M 2440MHz

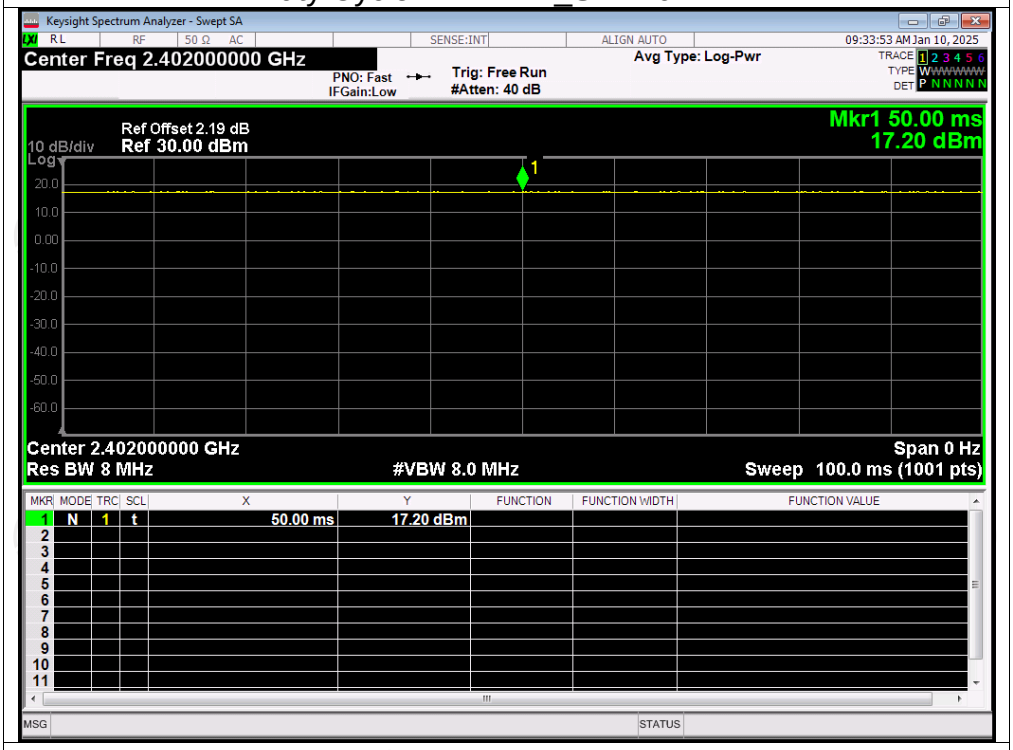


Duty Cycle NVNT BLE 2M 2480MHz

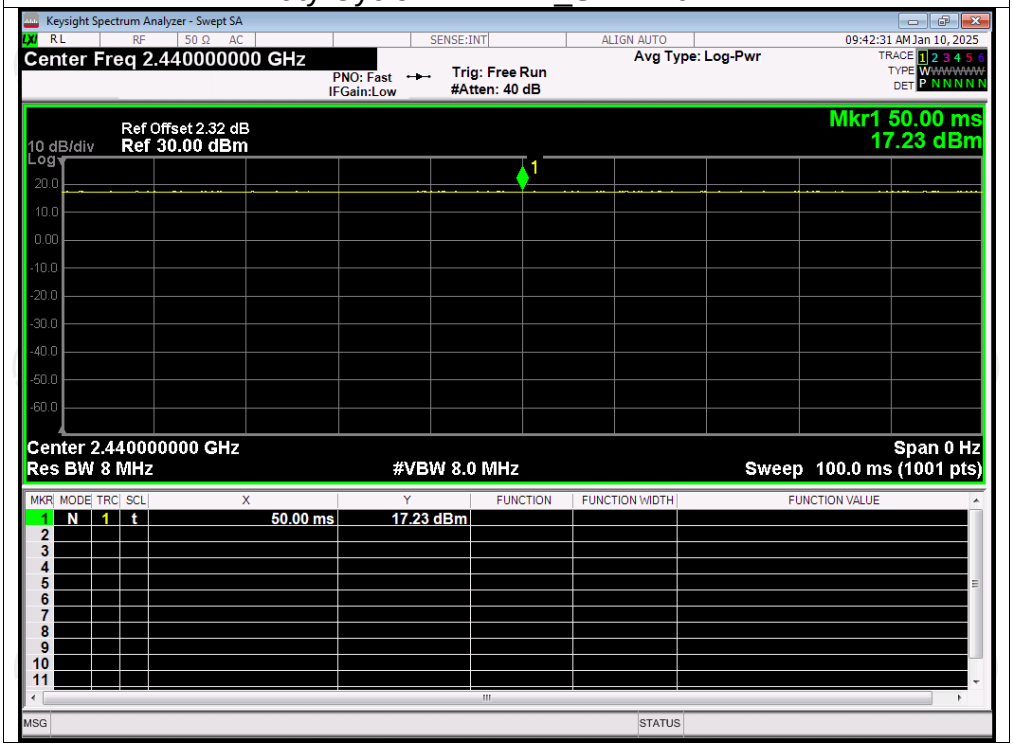


Test Graphs

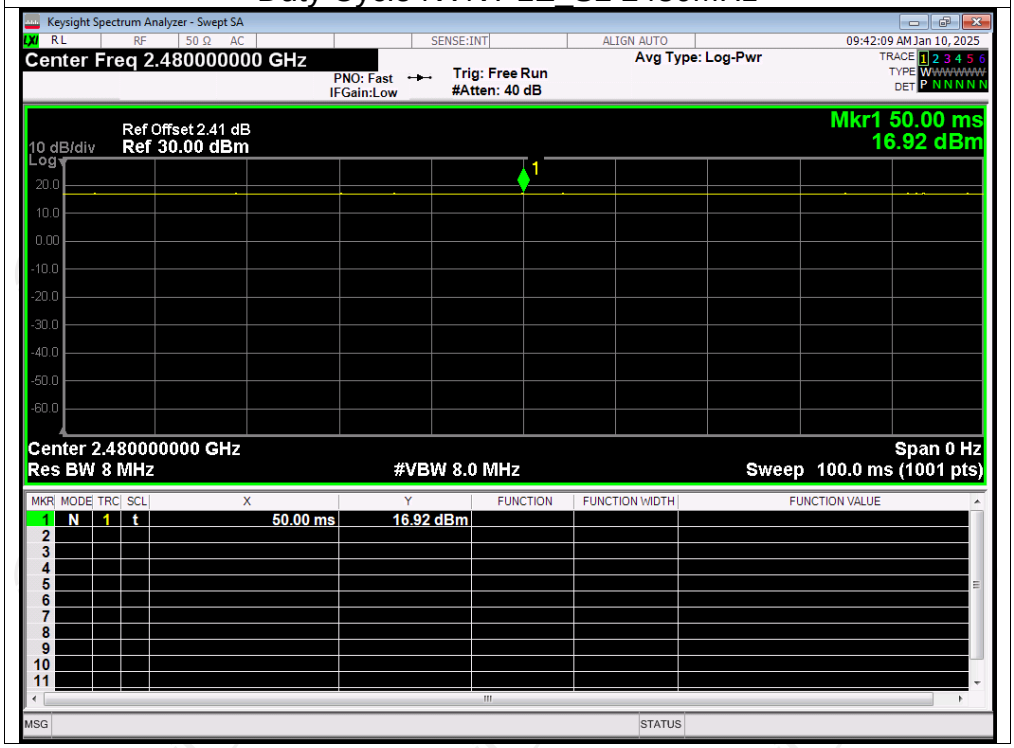
Duty Cycle NVNT LE_S2 2402MHz



Duty Cycle NVNT LE_S2 2440MHz

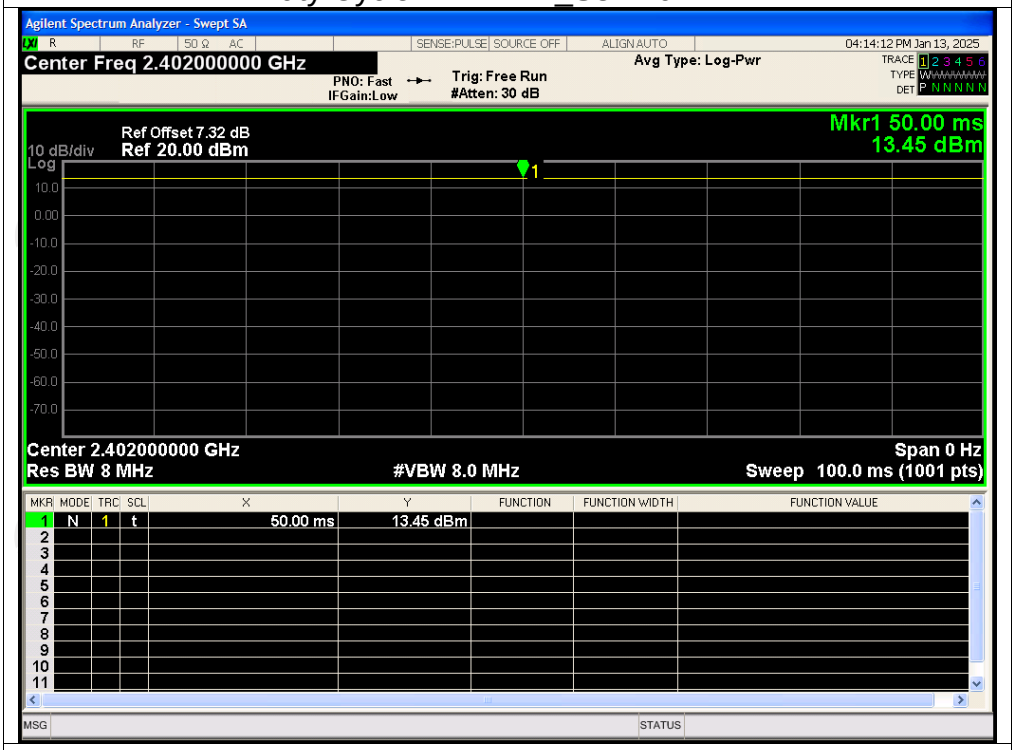


Duty Cycle NVNT LE_S2 2480MHz

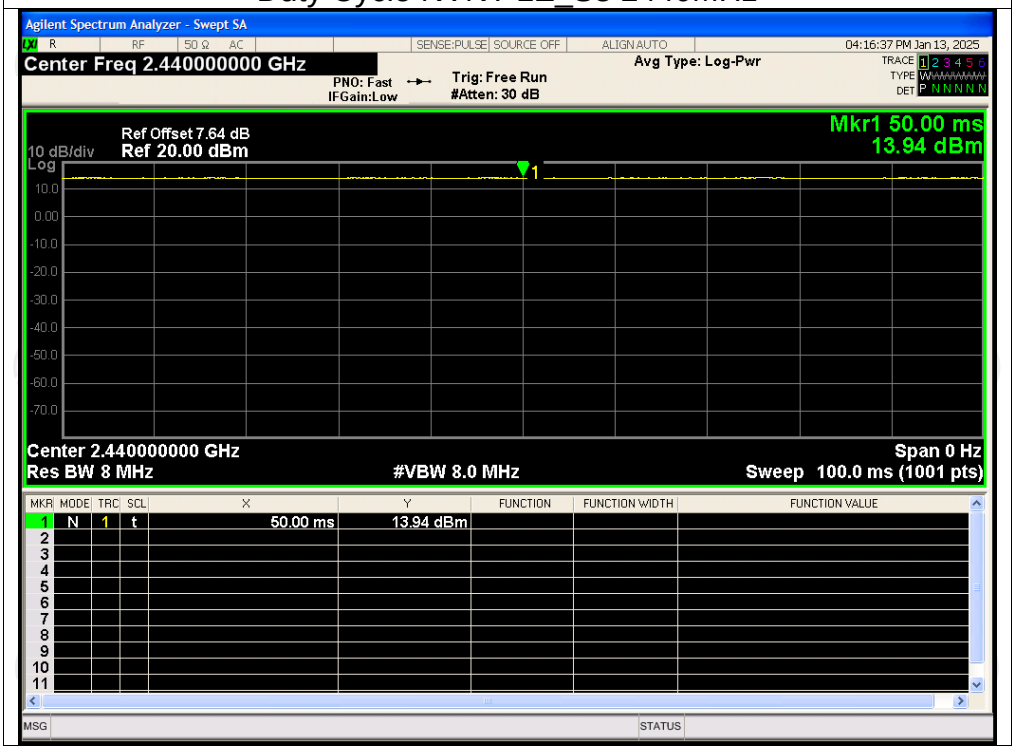


Test Graphs

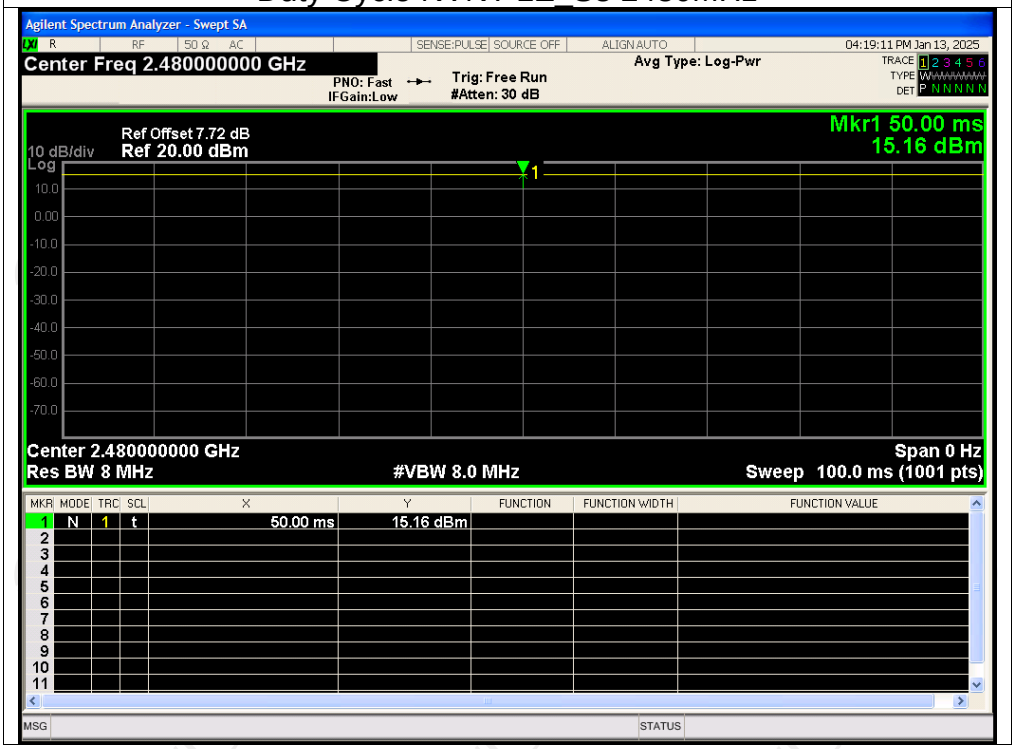
Duty Cycle NVNT LE_S8 2402MHz



Duty Cycle NVNT LE_S8 2440MHz



Duty Cycle NVNT LE_S8 2480MHz

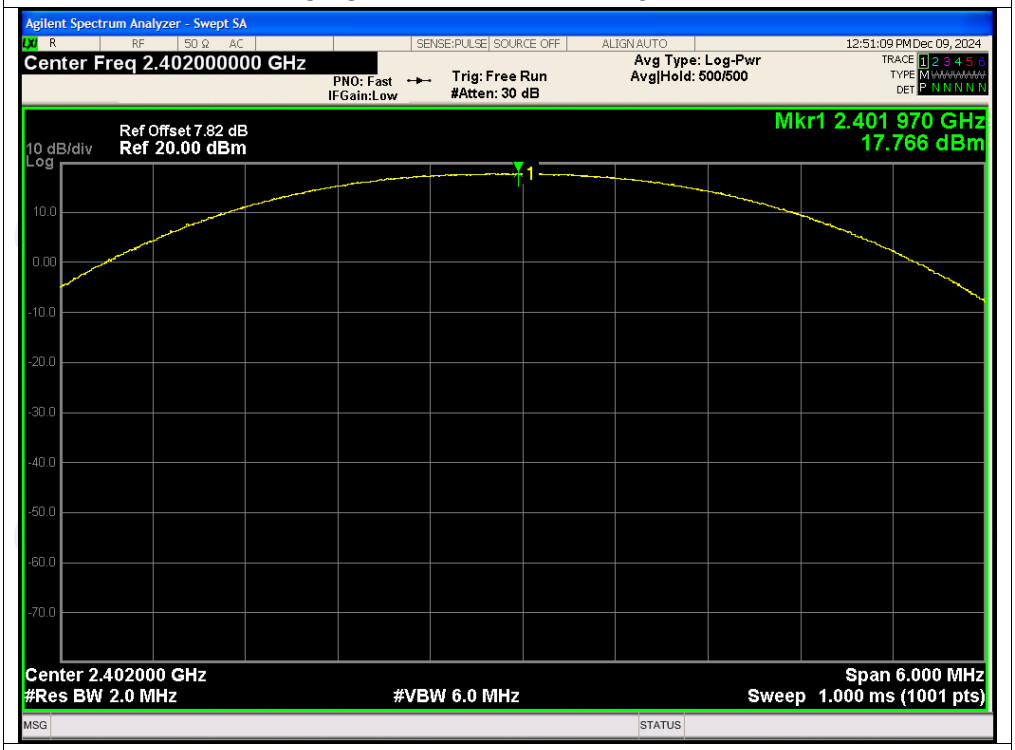


Maximum Conducted Output Power

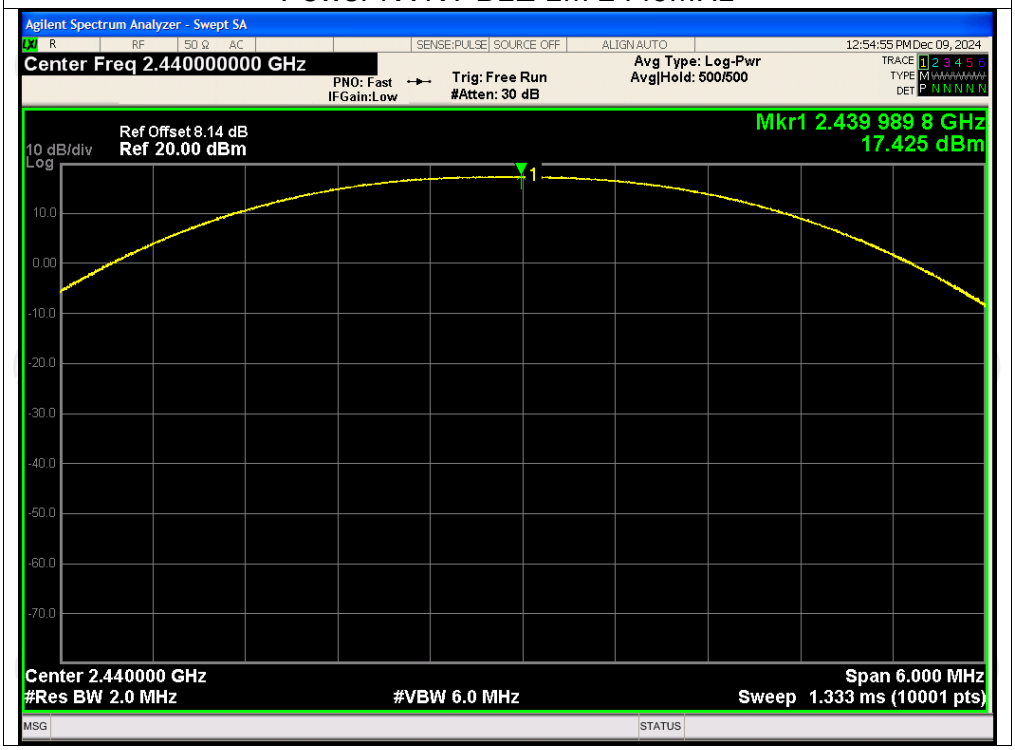
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	17.77	30	Pass
NVNT	BLE 1M	2440	17.43	30	Pass
NVNT	BLE 1M	2480	16.80	30	Pass
NVNT	BLE 2M	2402	18.06	30	Pass
NVNT	BLE 2M	2440	17.69	30	Pass
NVNT	BLE 2M	2480	17.07	30	Pass
NVNT	LE_S2	2402	17.19	30	Pass
NVNT	LE_S2	2440	18.20	30	Pass
NVNT	LE_S2	2480	17.94	30	Pass
NVNT	LE_S8	2402	13.29	30	Pass
NVNT	LE_S8	2440	13.87	30	Pass
NVNT	LE_S8	2480	15.07	30	Pass

Test Graphs

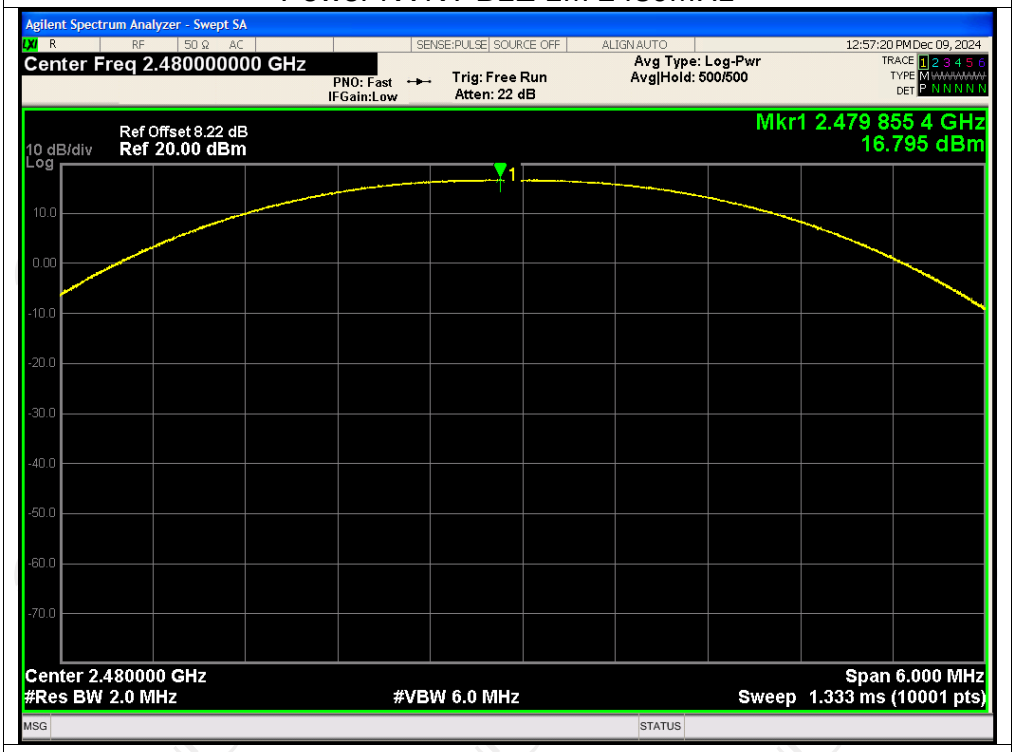
Power NVNT BLE 1M 2402MHz



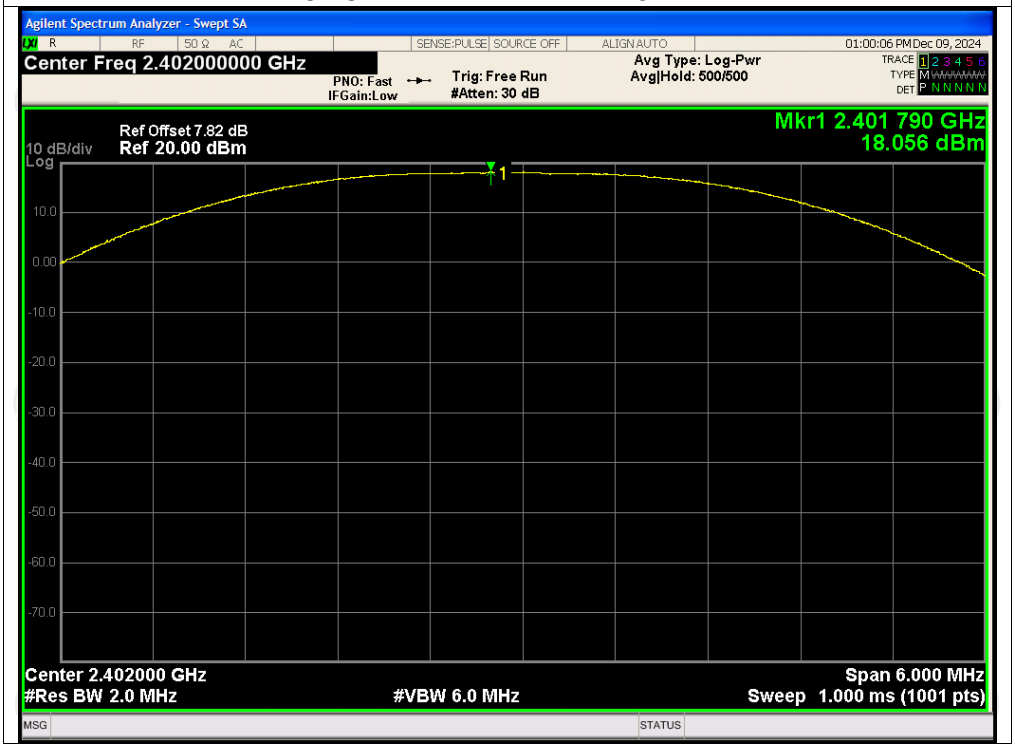
Power NVNT BLE 1M 2440MHz



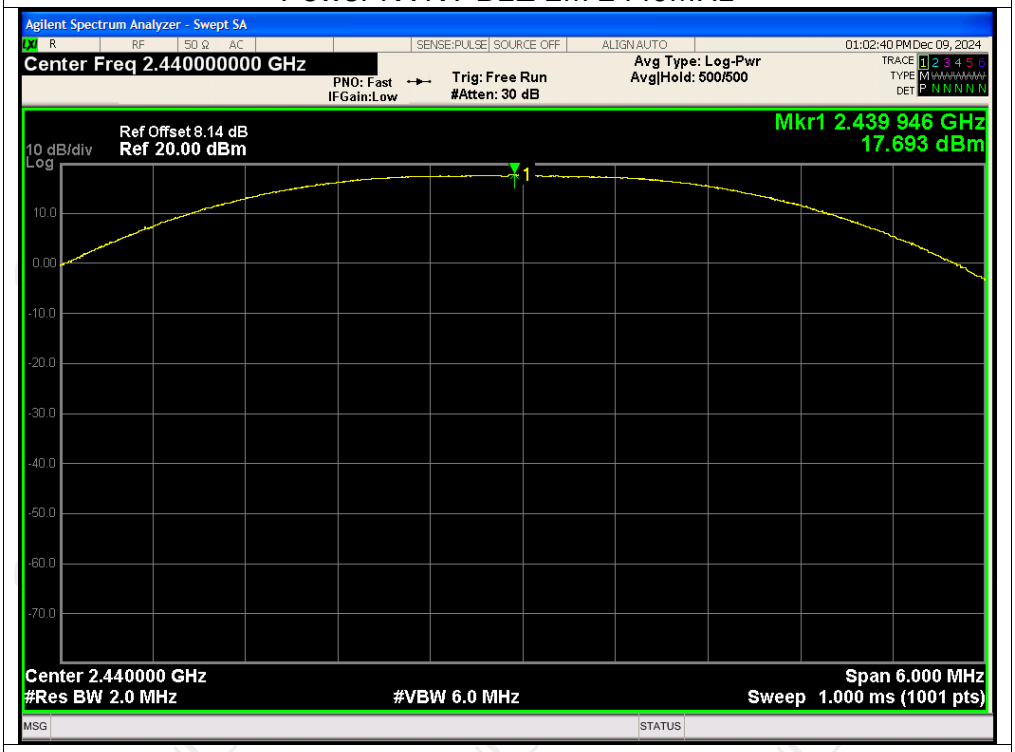
Power NVNT BLE 1M 2480MHz



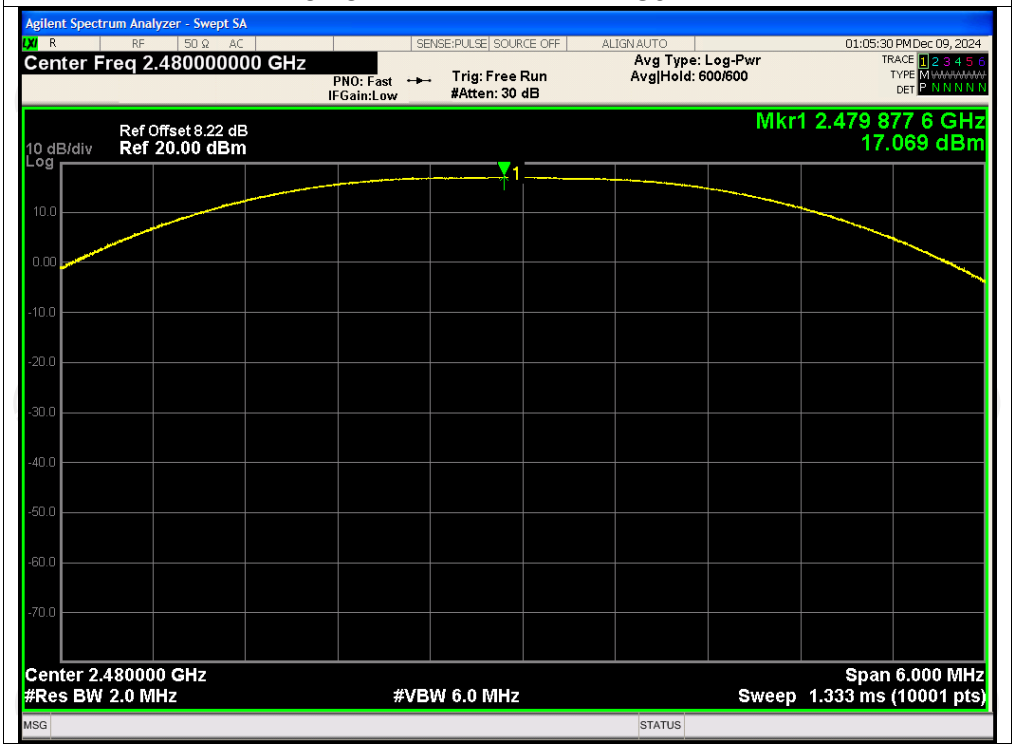
Power NVNT BLE 2M 2402MHz



Power NVNT BLE 2M 2440MHz

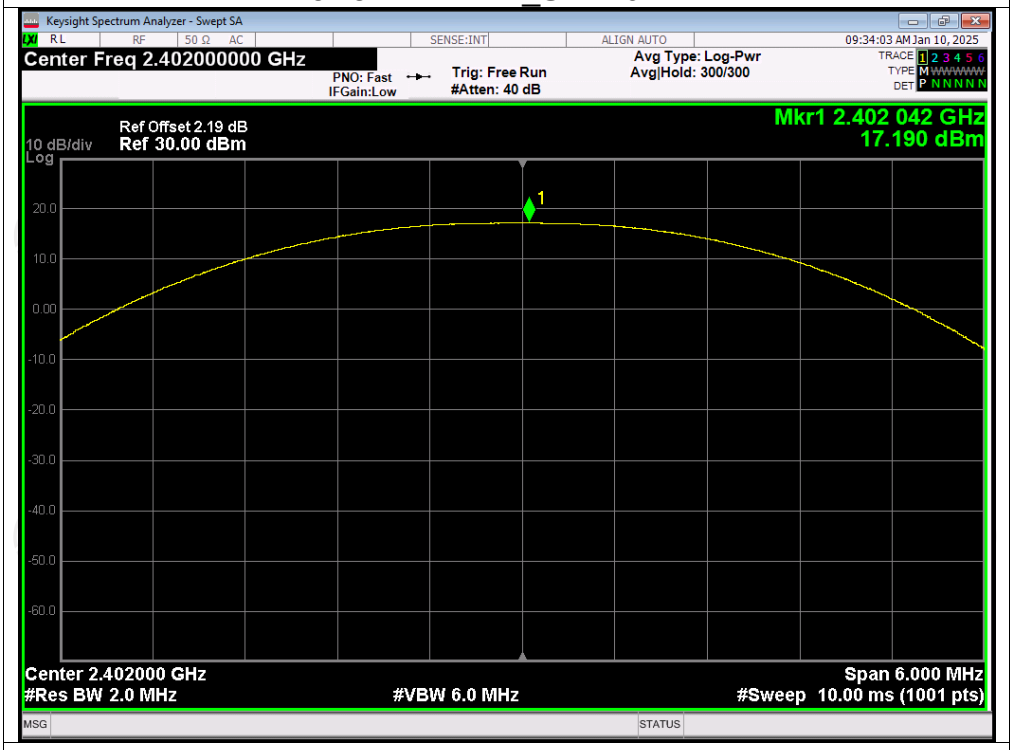


Power NVNT BLE 2M 2480MHz

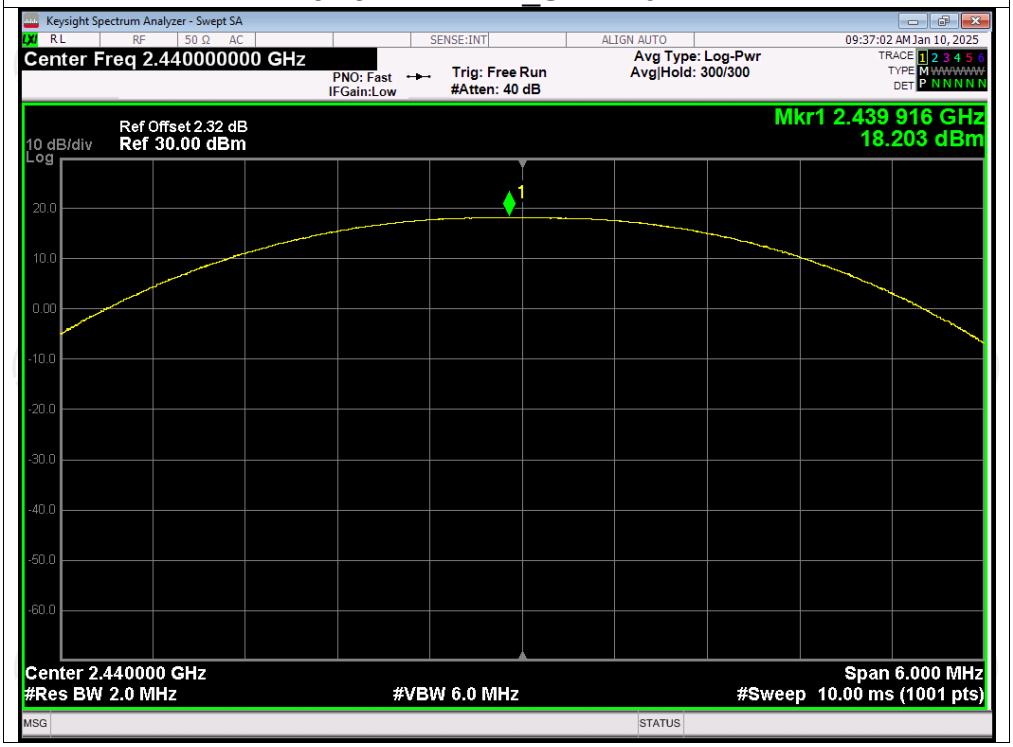


Test Graphs

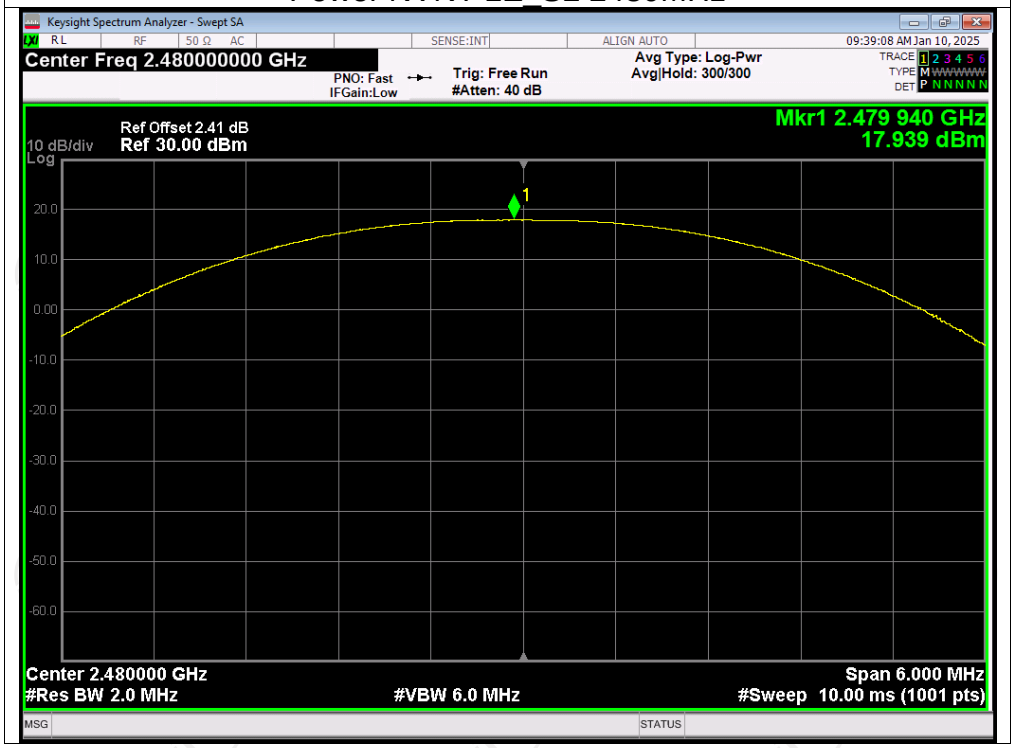
Power NVNT LE_S2 2402MHz



Power NVNT LE_S2 2440MHz

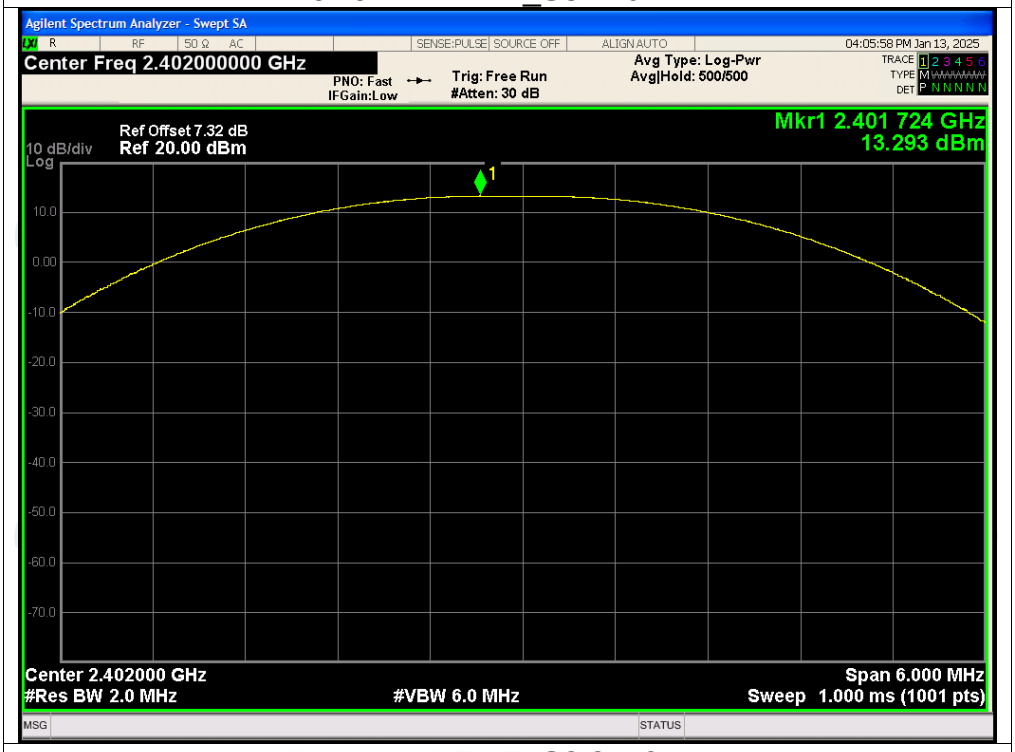


Power NVNT LE_S2 2480MHz

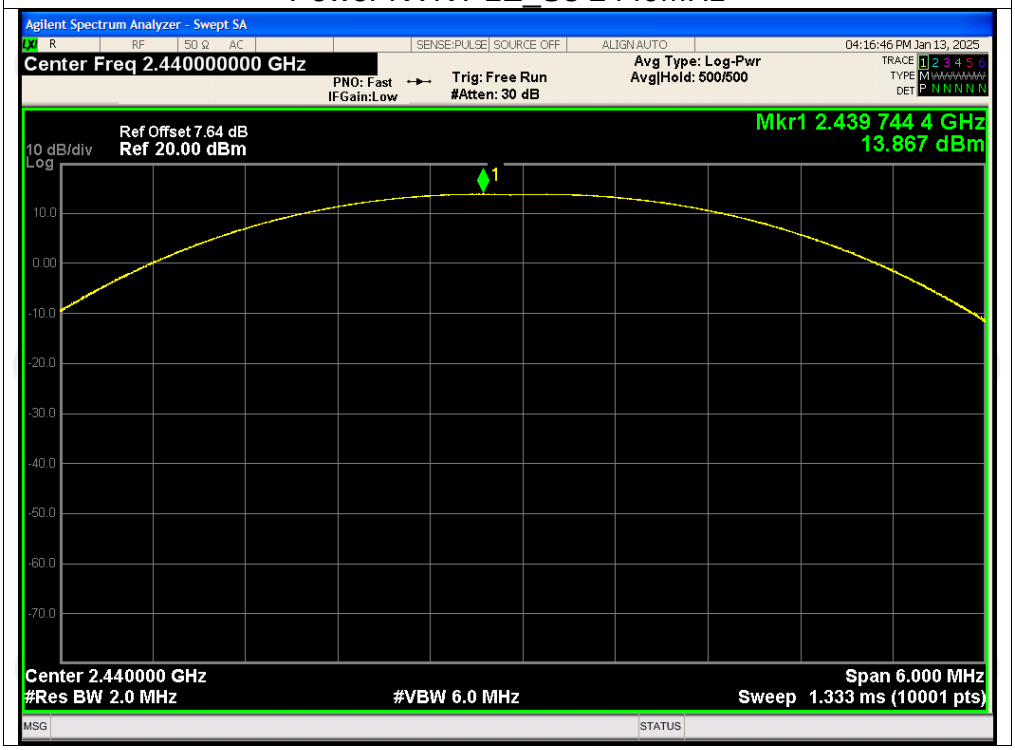


Test Graphs

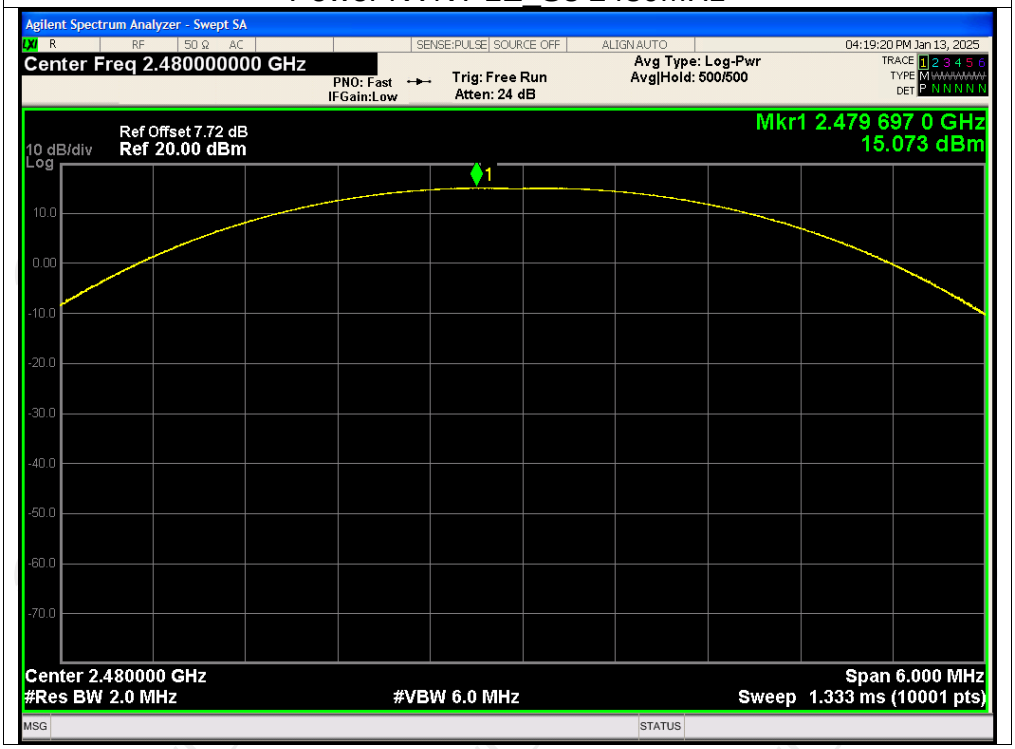
Power NVNT LE_S8 2402MHz



Power NVNT LE_S8 2440MHz



Power NVNT LE_S8 2480MHz



-6dB Bandwidth

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	0.637	0.5	Pass
NVNT	BLE 1M	2440	0.633	0.5	Pass
NVNT	BLE 1M	2480	0.635	0.5	Pass
NVNT	BLE 2M	2402	1.102	0.5	Pass
NVNT	BLE 2M	2440	1.085	0.5	Pass
NVNT	BLE 2M	2480	1.125	0.5	Pass
NVNT	LE_S2	2402	0.643	0.5	Pass
NVNT	LE_S2	2440	0.642	0.5	Pass
NVNT	LE_S2	2480	0.638	0.5	Pass
NVNT	LE_S8	2402	0.646	0.5	Pass
NVNT	LE_S8	2440	0.641	0.5	Pass
NVNT	LE_S8	2480	0.643	0.5	Pass

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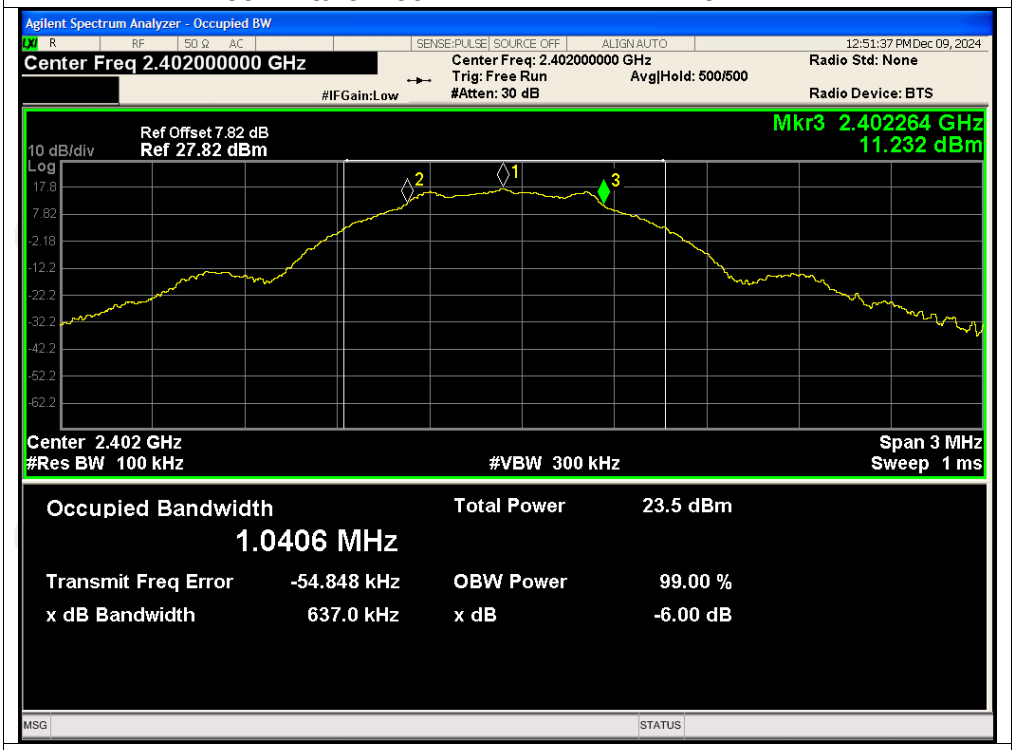
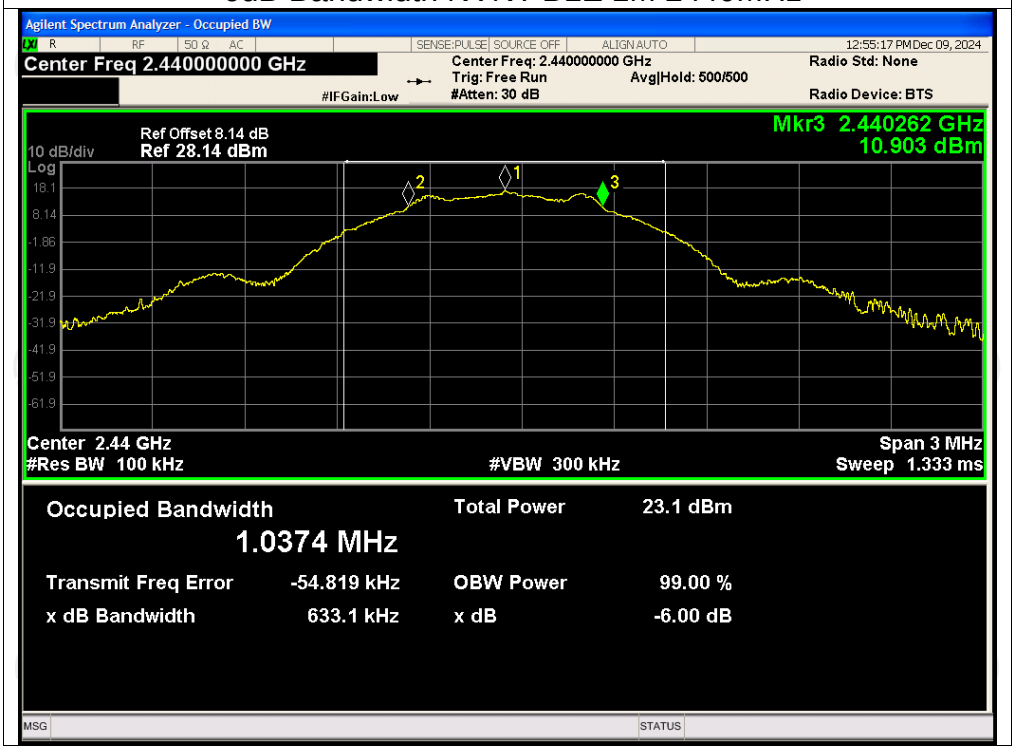
Test Graphs

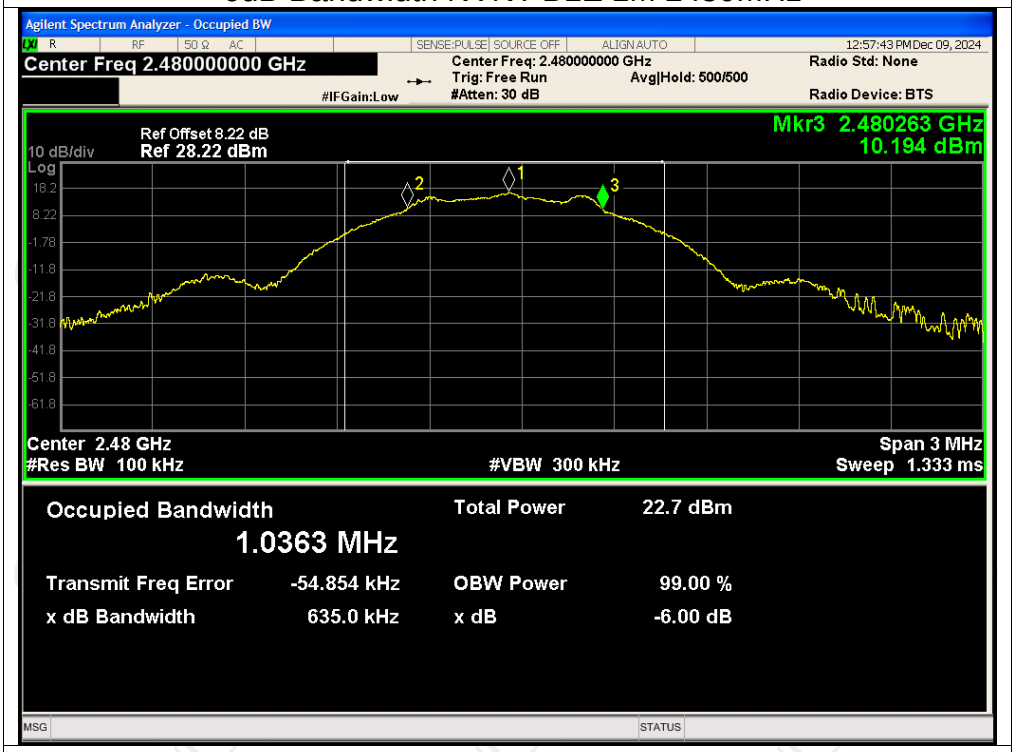
-6dB Bandwidth NVNT BLE 1M 2402MHz



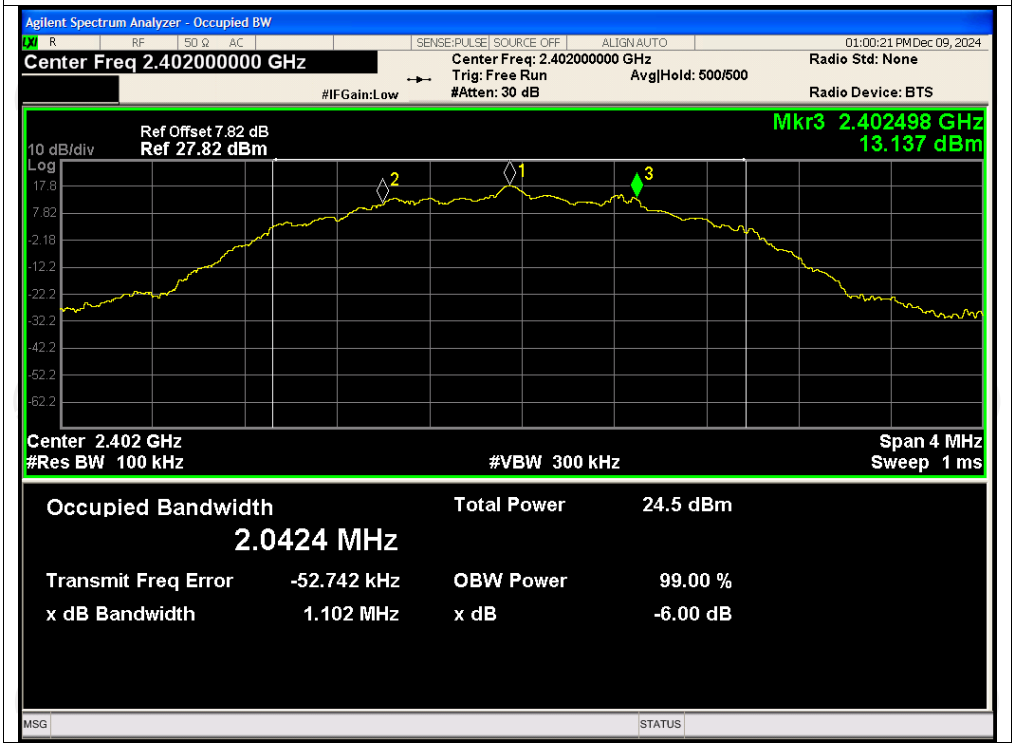
-6dB Bandwidth NVNT BLE 1M 2440MHz



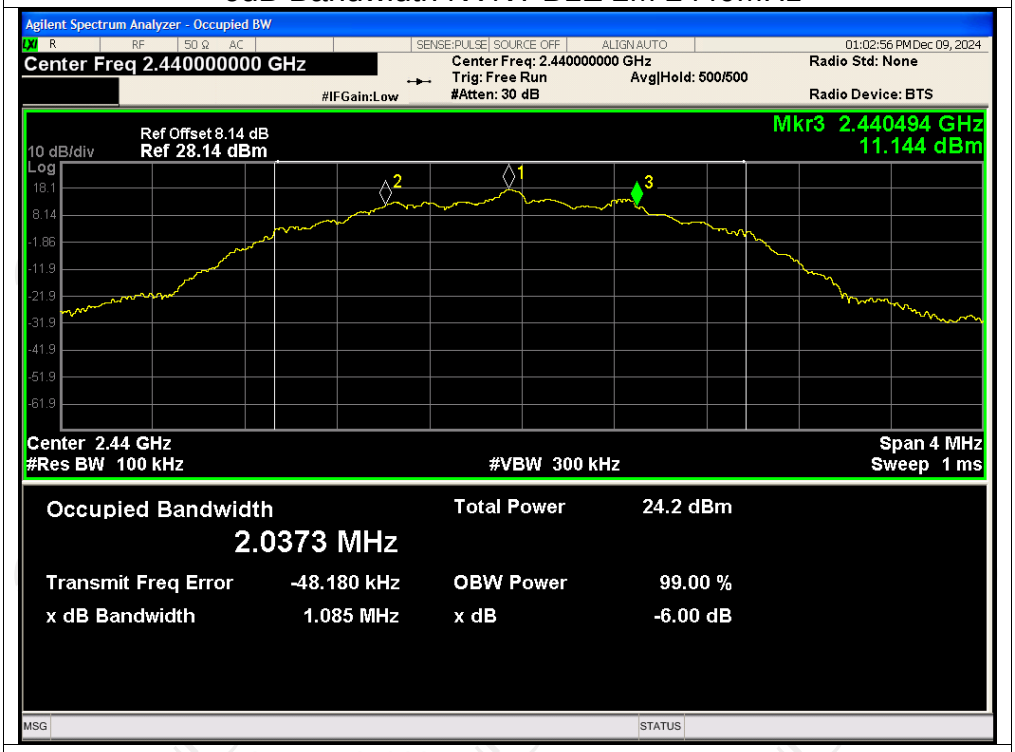
-6dB Bandwidth NVNT BLE 1M 2480MHz



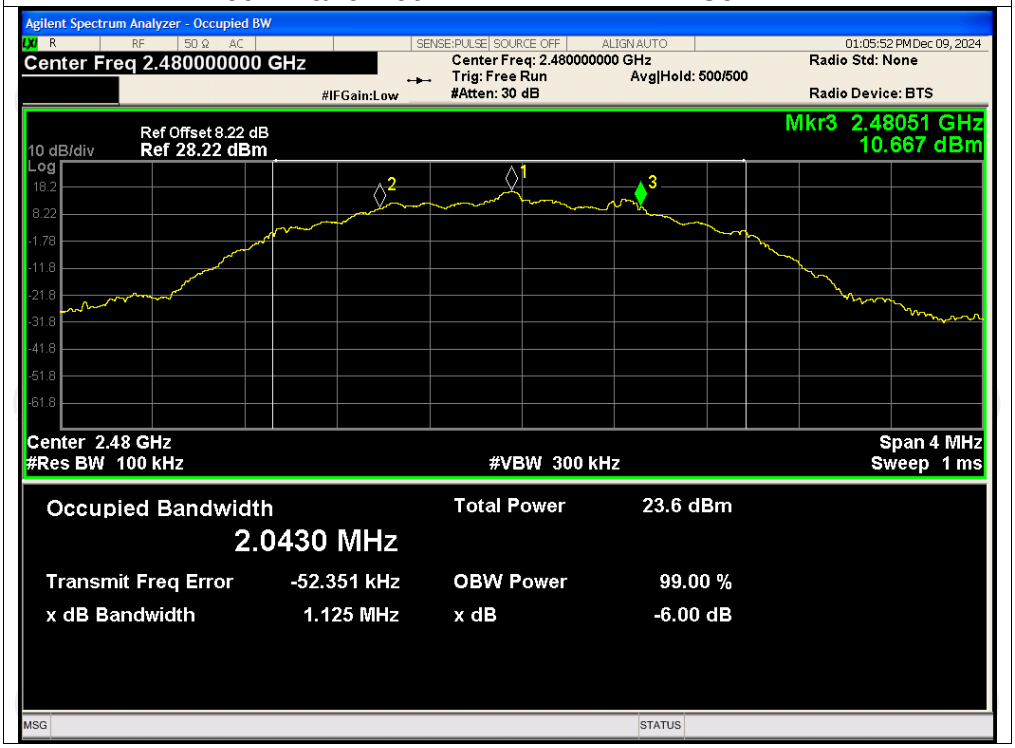
-6dB Bandwidth NVNT BLE 2M 2402MHz



-6dB Bandwidth NVNT BLE 2M 2440MHz

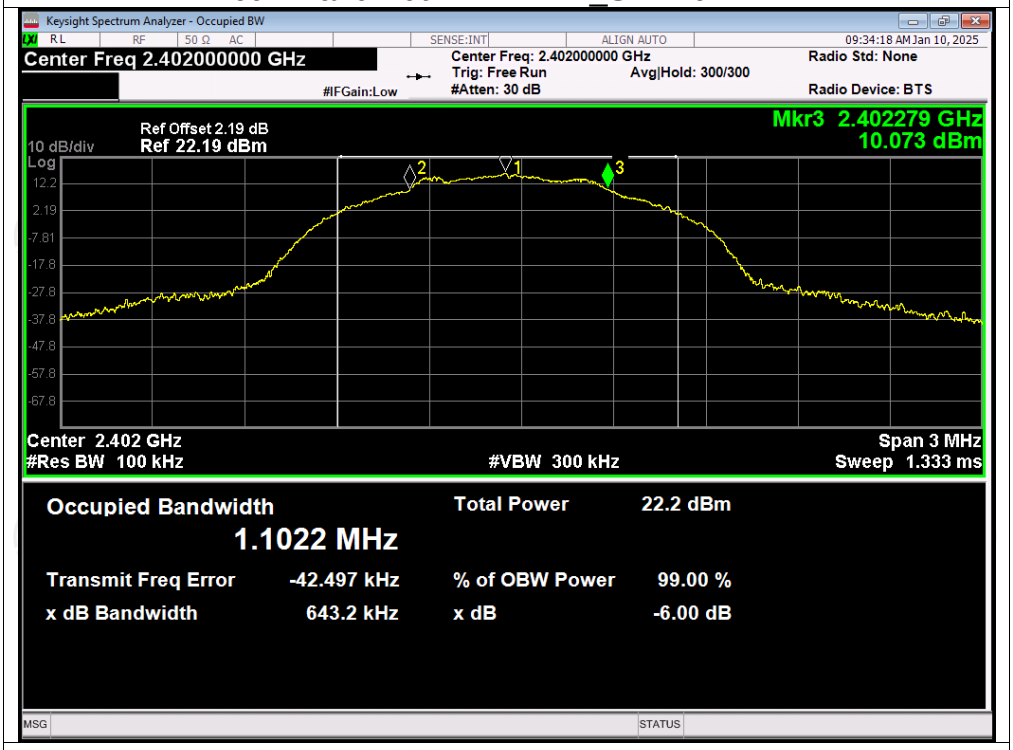


-6dB Bandwidth NVNT BLE 2M 2480MHz

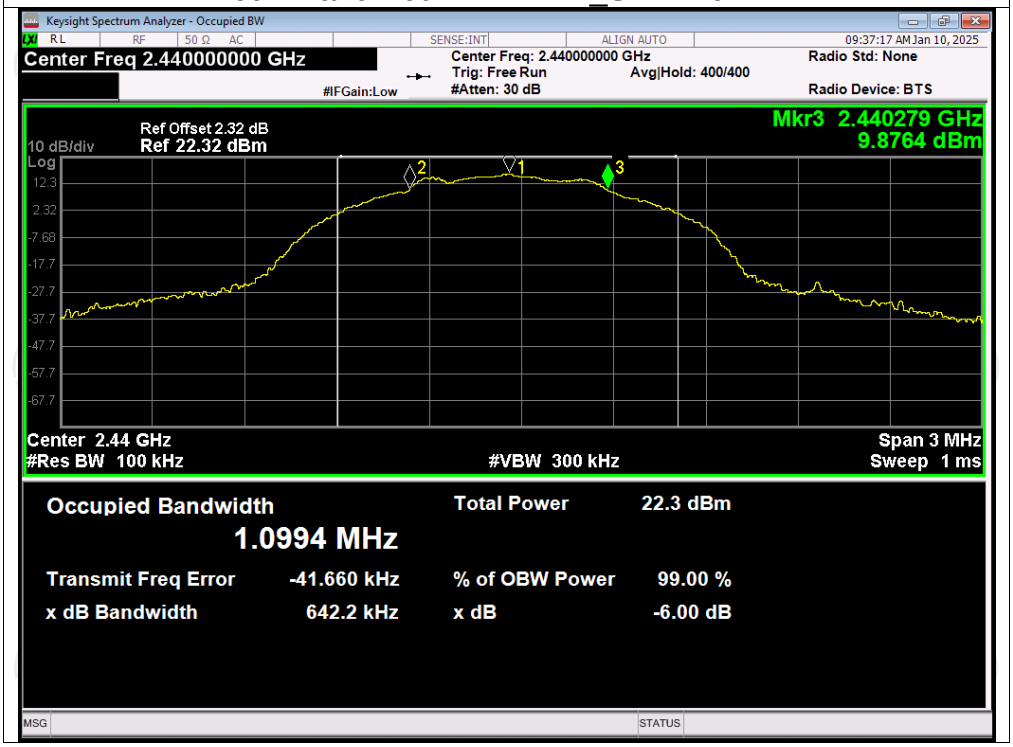


Test Graphs

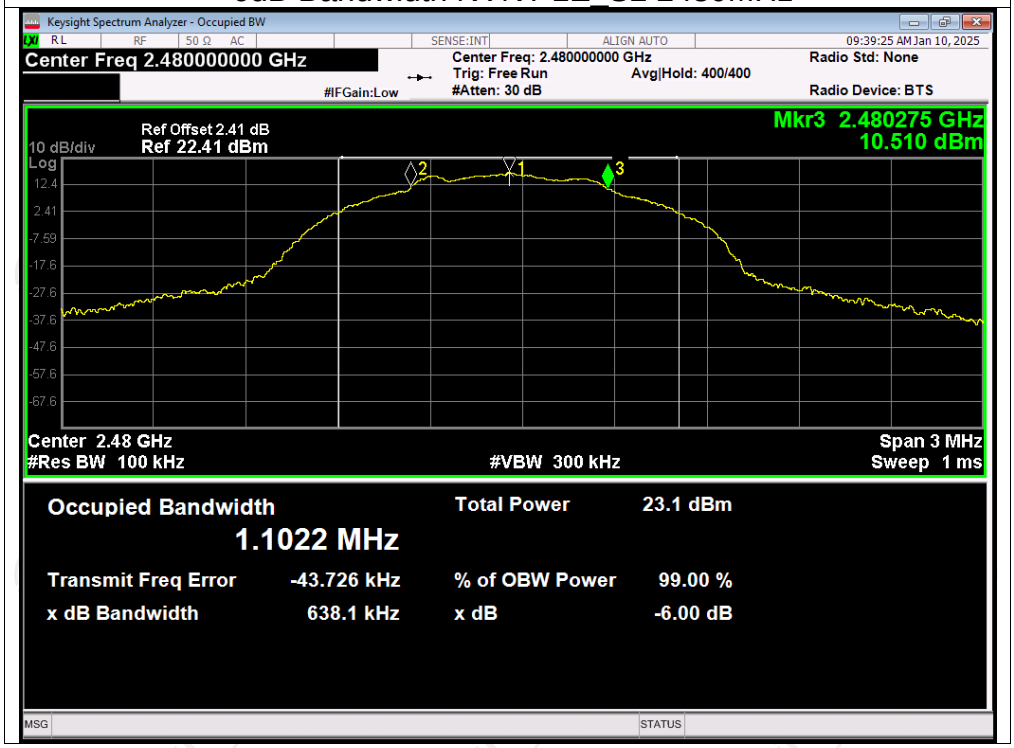
-6dB Bandwidth NVNT LE_S2 2402MHz



-6dB Bandwidth NVNT LE_S2 2440MHz

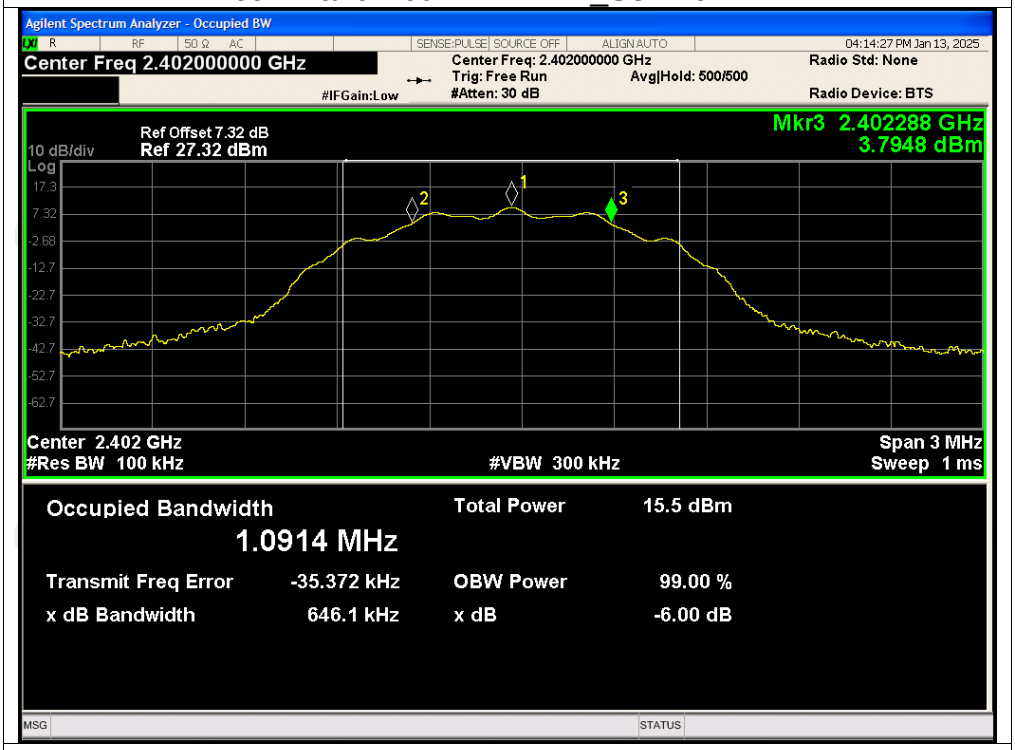


-6dB Bandwidth NVNT LE_S2 2480MHz

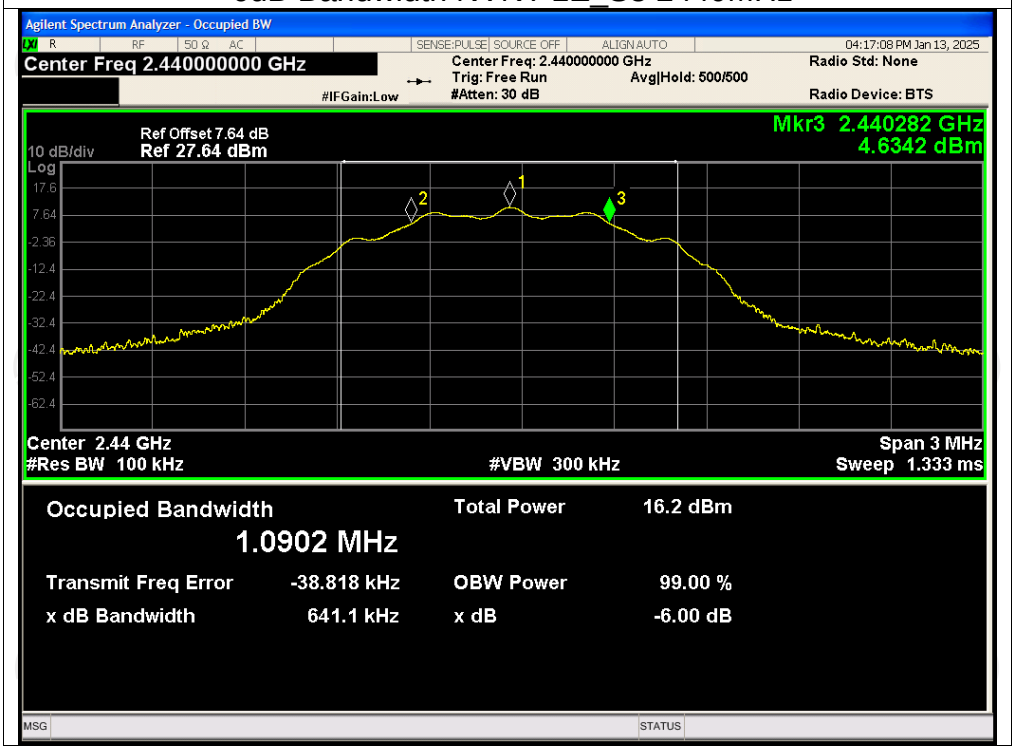


Test Graphs

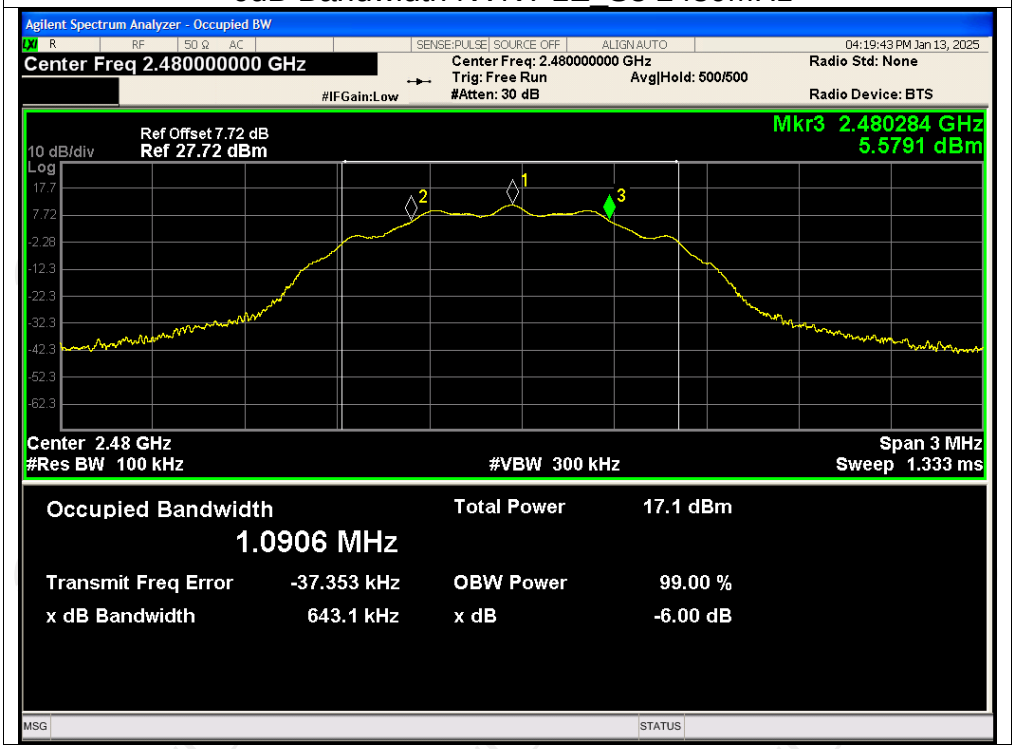
-6dB Bandwidth NVNT LE_S8 2402MHz



-6dB Bandwidth NVNT LE_S8 2440MHz



-6dB Bandwidth NVNT LE_S8 2480MHz



Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	1.97	8	Pass
NVNT	BLE 1M	2440	2.22	8	Pass
NVNT	BLE 1M	2480	1.81	8	Pass
NVNT	BLE 2M	2402	0.72	8	Pass
NVNT	BLE 2M	2440	0.36	8	Pass
NVNT	BLE 2M	2480	-0.09	8	Pass
NVNT	LE_S2	2402	2.30	8	Pass
NVNT	LE_S2	2440	2.18	8	Pass
NVNT	LE_S2	2480	2.90	8	Pass
NVNT	LE_S8	2402	5.46	8	Pass
NVNT	LE_S8	2440	6.18	8	Pass
NVNT	LE_S8	2480	7.02	8	Pass

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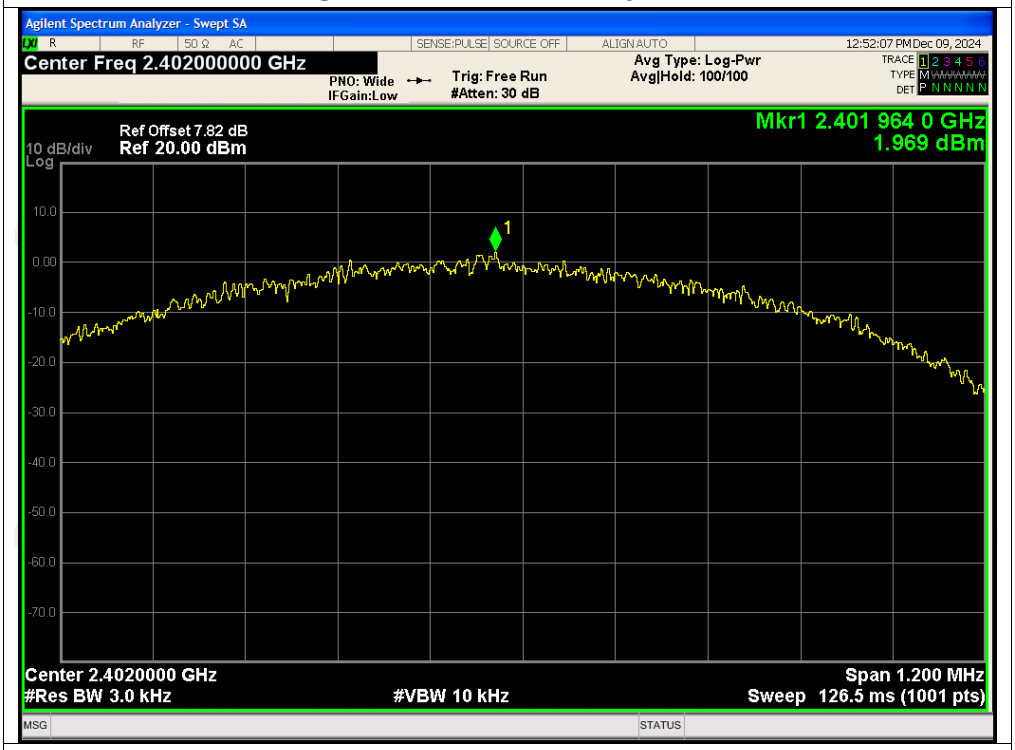
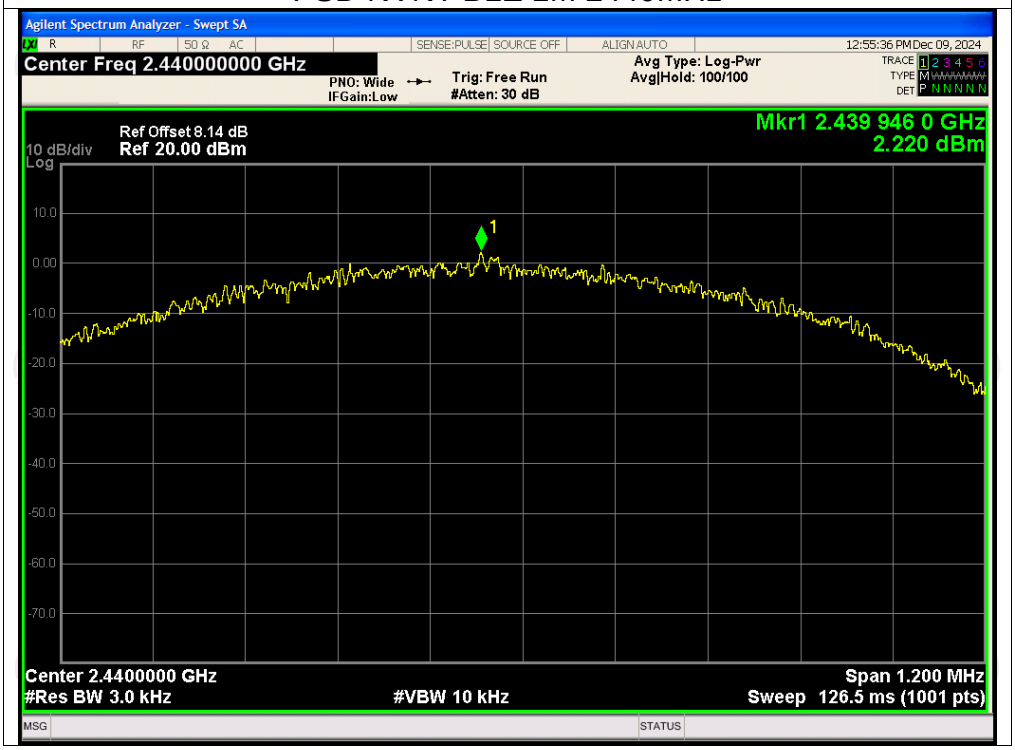
Test Graphs

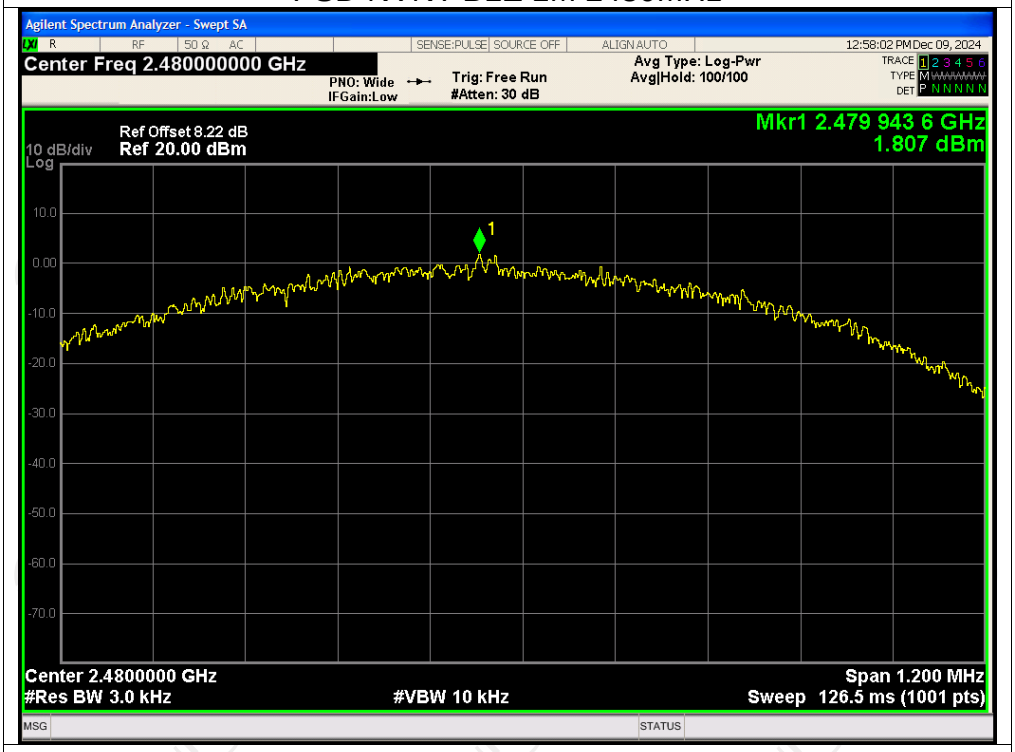
PSD NVNT BLE 1M 2402MHz



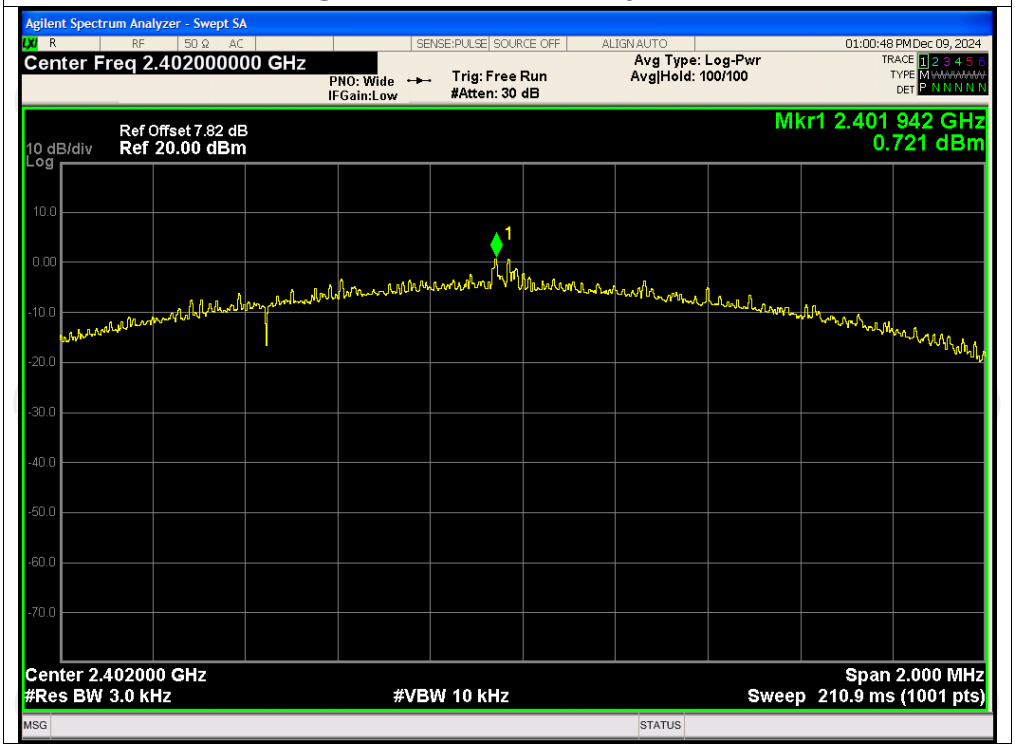
PSD NVNT BLE 1M 2440MHz



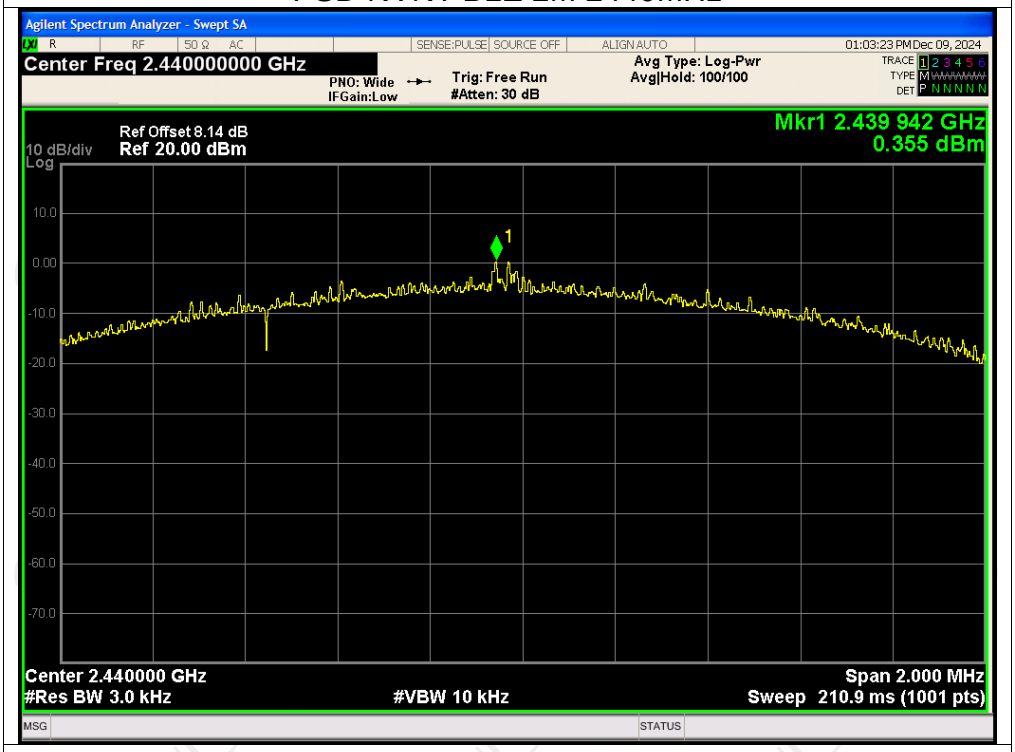
PSD NVNT BLE 1M 2480MHz



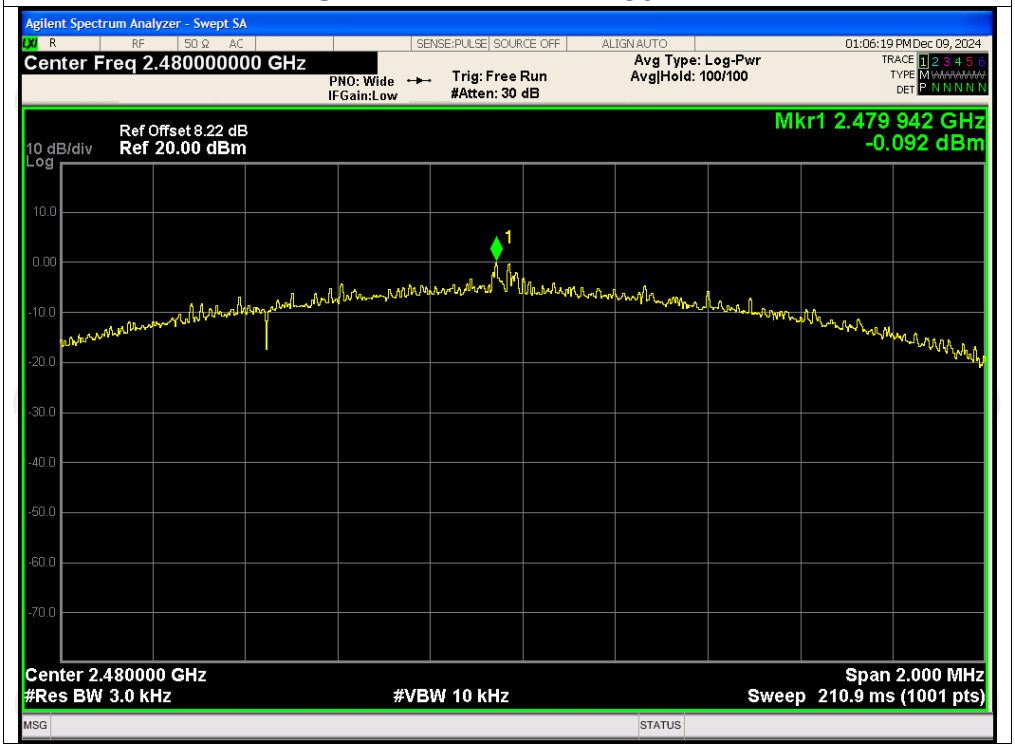
PSD NVNT BLE 2M 2402MHz



PSD NVNT BLE 2M 2440MHz

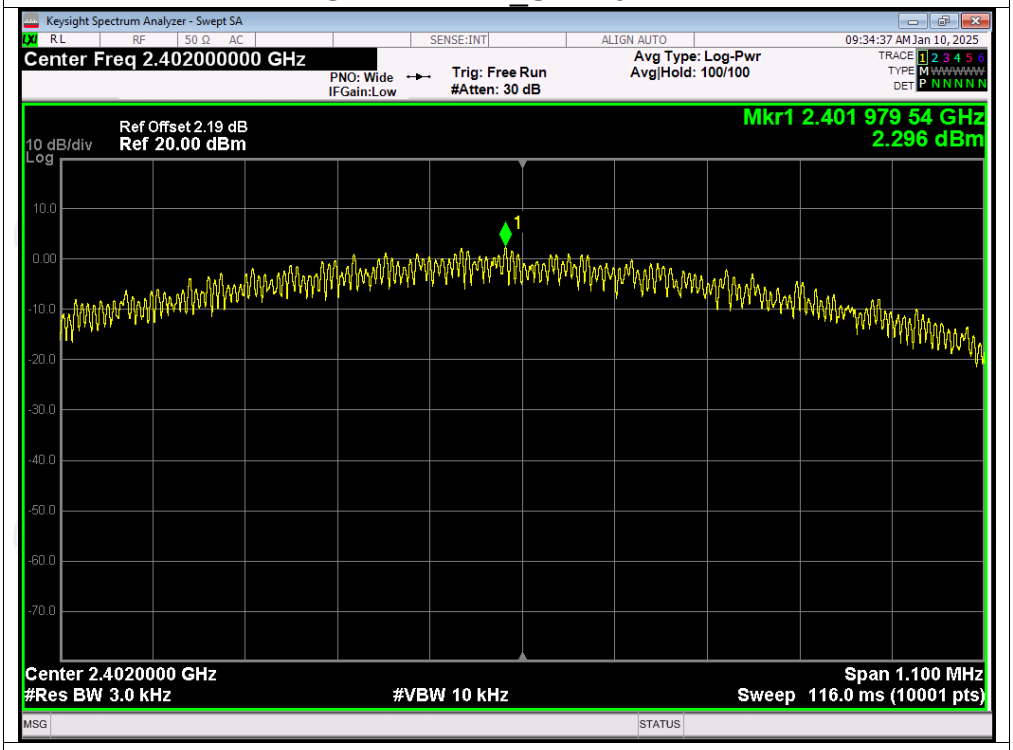


PSD NVNT BLE 2M 2480MHz

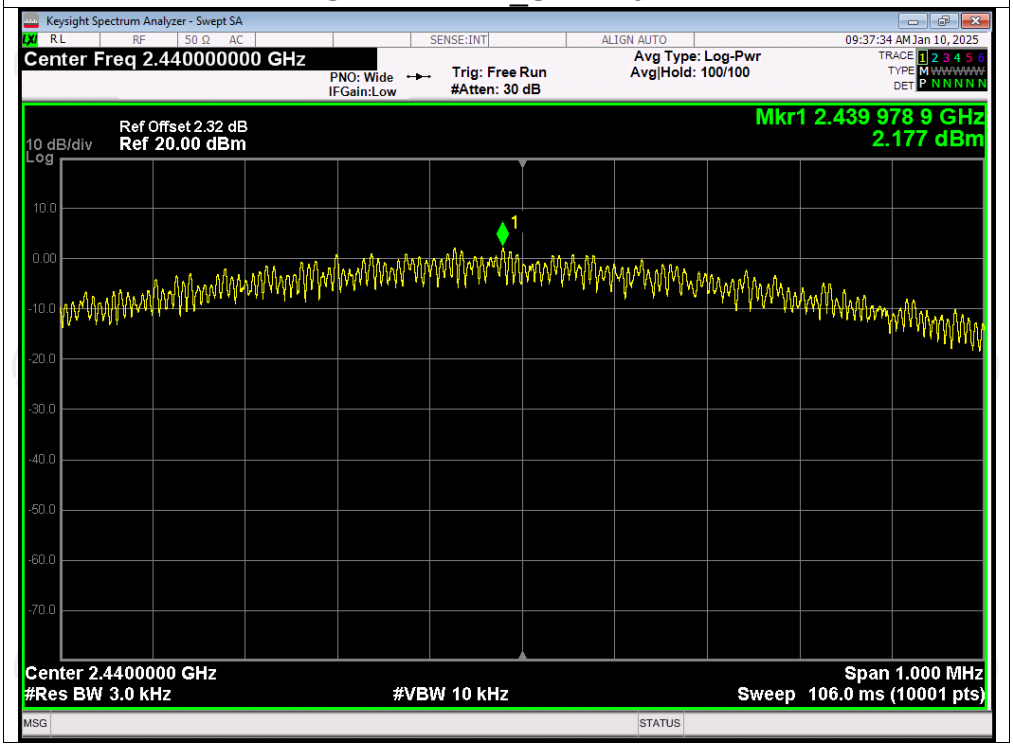


Test Graphs

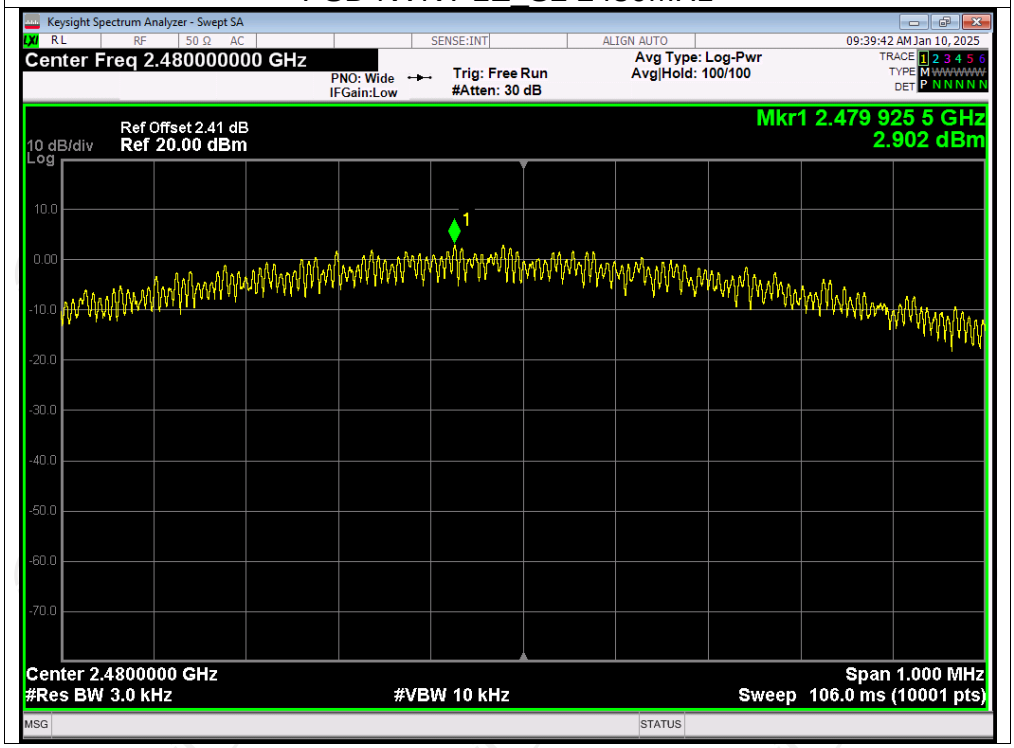
PSD NVNT LE_S2 2402MHz



PSD NVNT LE_S2 2440MHz

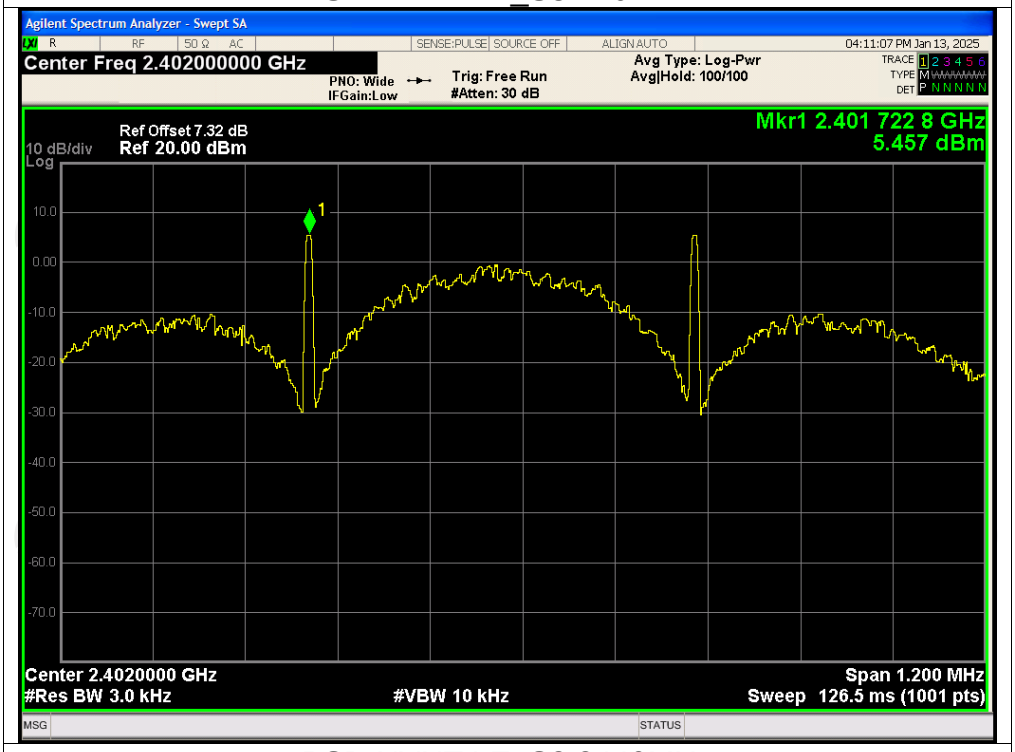


PSD NVNT LE_S2 2480MHz

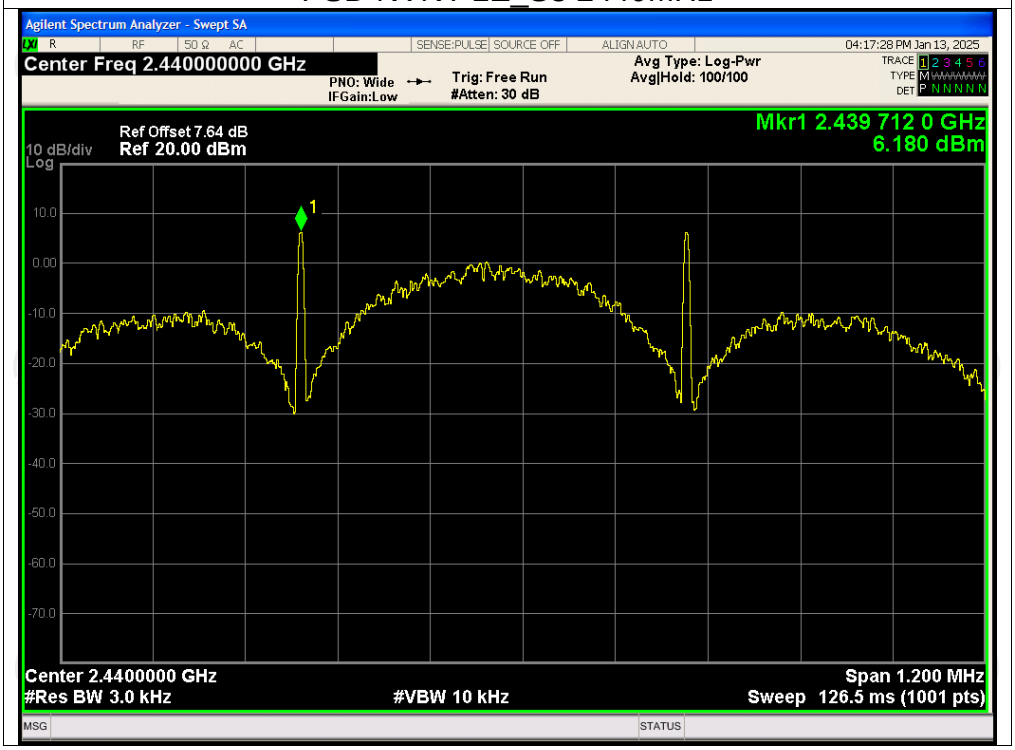


Test Graphs

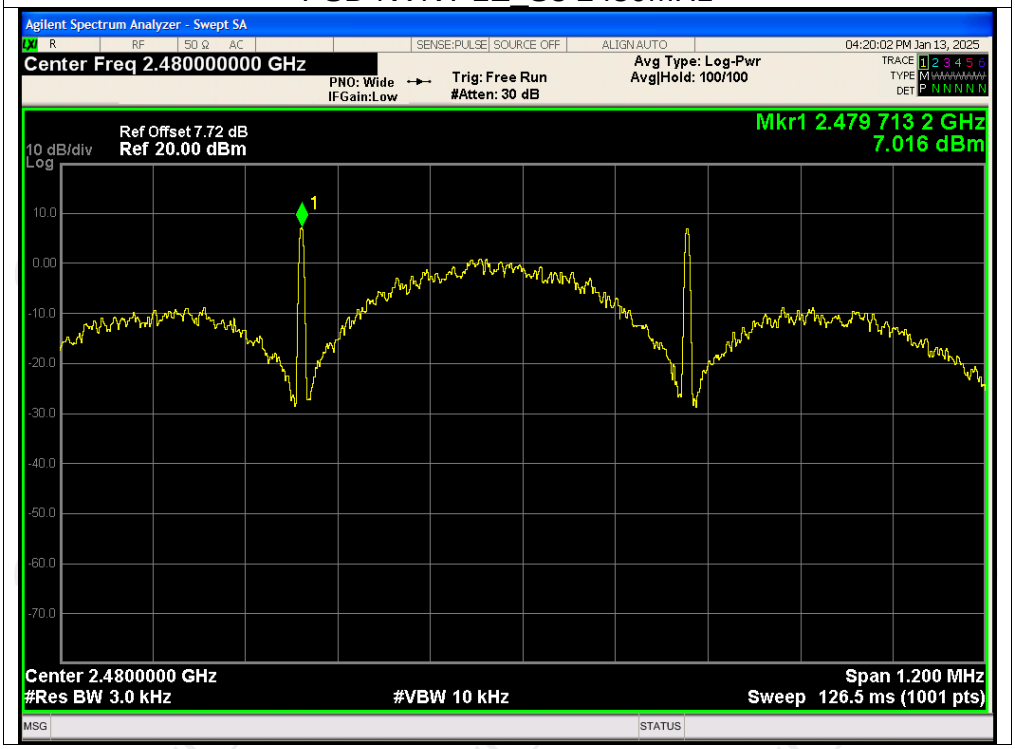
PSD NVNT LE_S8 2402MHz



PSD NVNT LE_S8 2440MHz



PSD NVNT LE_S8 2480MHz

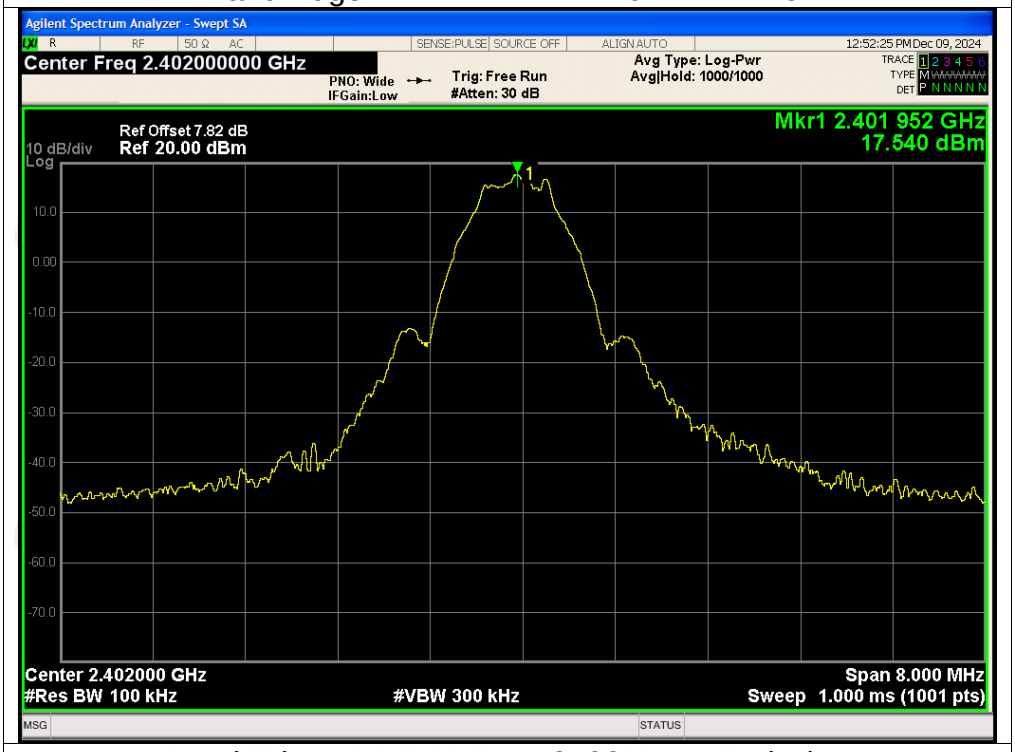


Band Edge

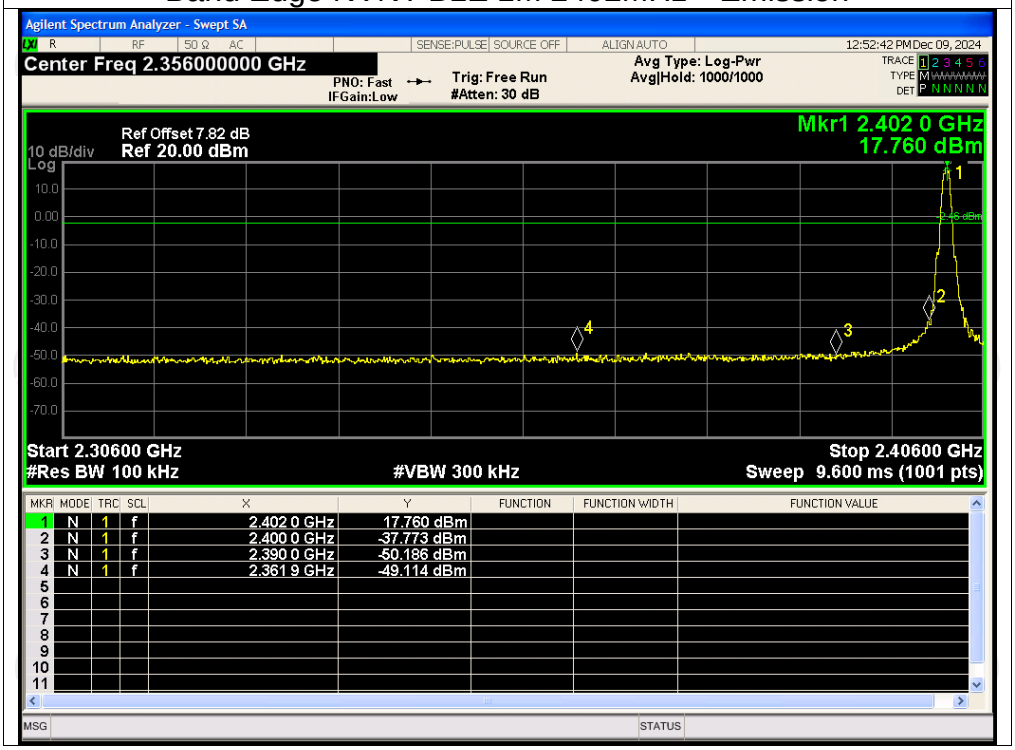
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-66.65	-20	Pass
NVNT	BLE 1M	2480	-58.24	-20	Pass
NVNT	BLE 2M	2402	-66.58	-20	Pass
NVNT	BLE 2M	2480	-60.09	-20	Pass
NVNT	LE_S2	2402	-66.78	-20	Pass
NVNT	LE_S2	2480	-57.29	-20	Pass
NVNT	LE_S8	2402	-58.75	-20	Pass
NVNT	LE_S8	2480	-55.34	-20	Pass

Test Graphs

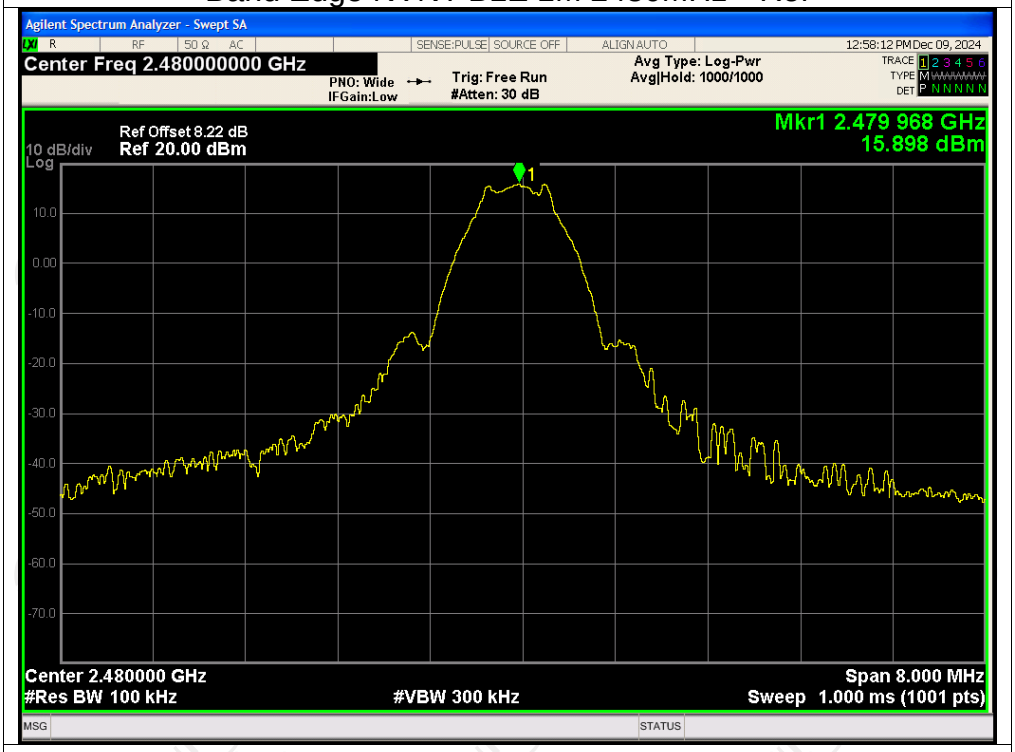
Band Edge NVNT BLE 1M 2402MHz Ref



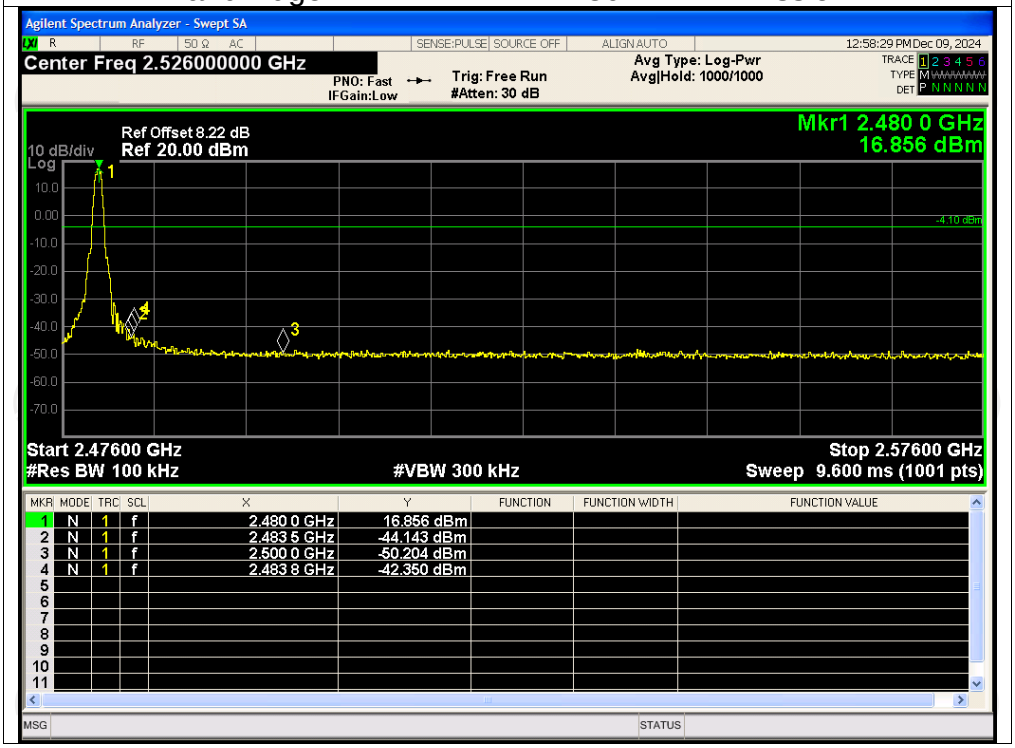
Band Edge NVNT BLE 1M 2402MHz Emission



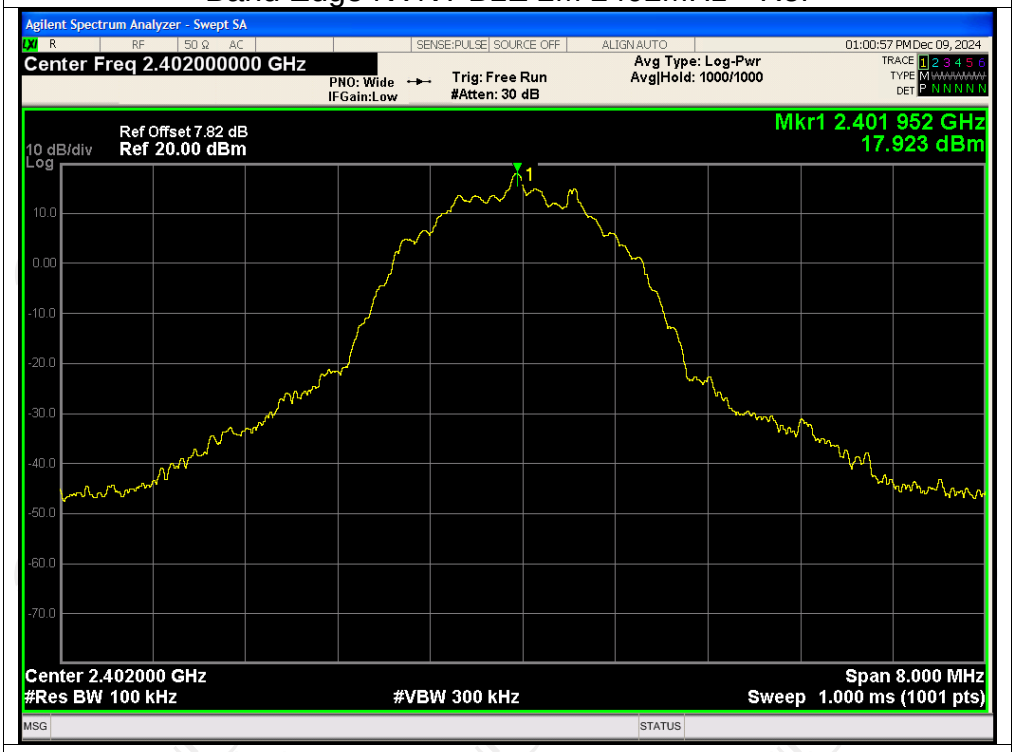
Band Edge NVNT BLE 1M 2480MHz Ref



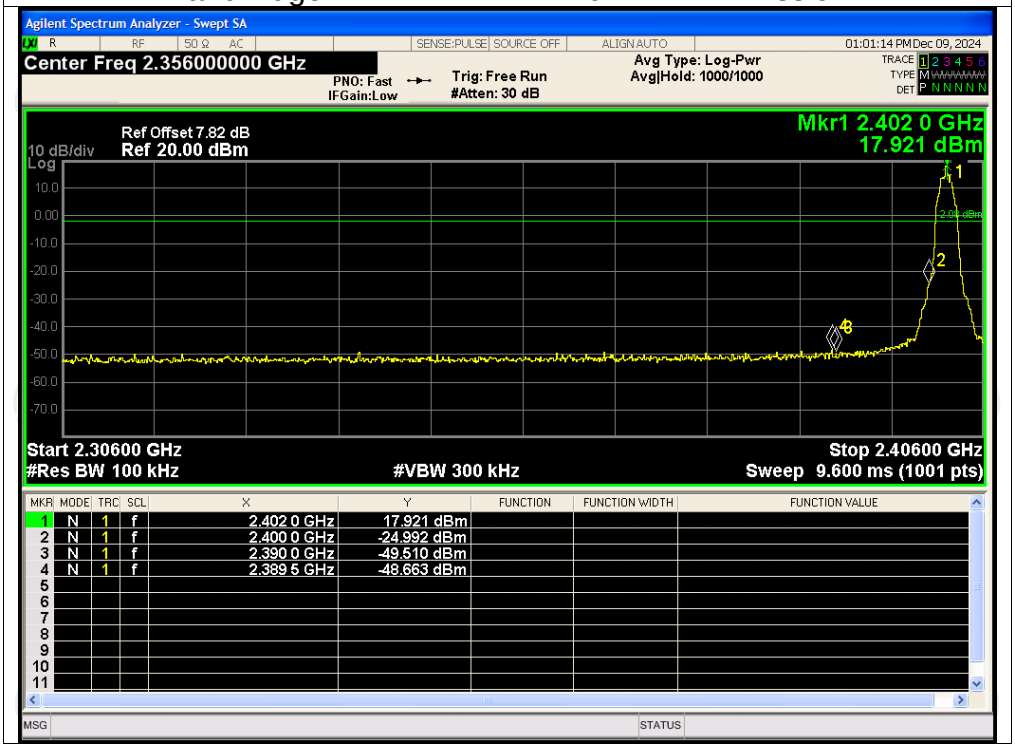
Band Edge NVNT BLE 1M 2480MHz Emission



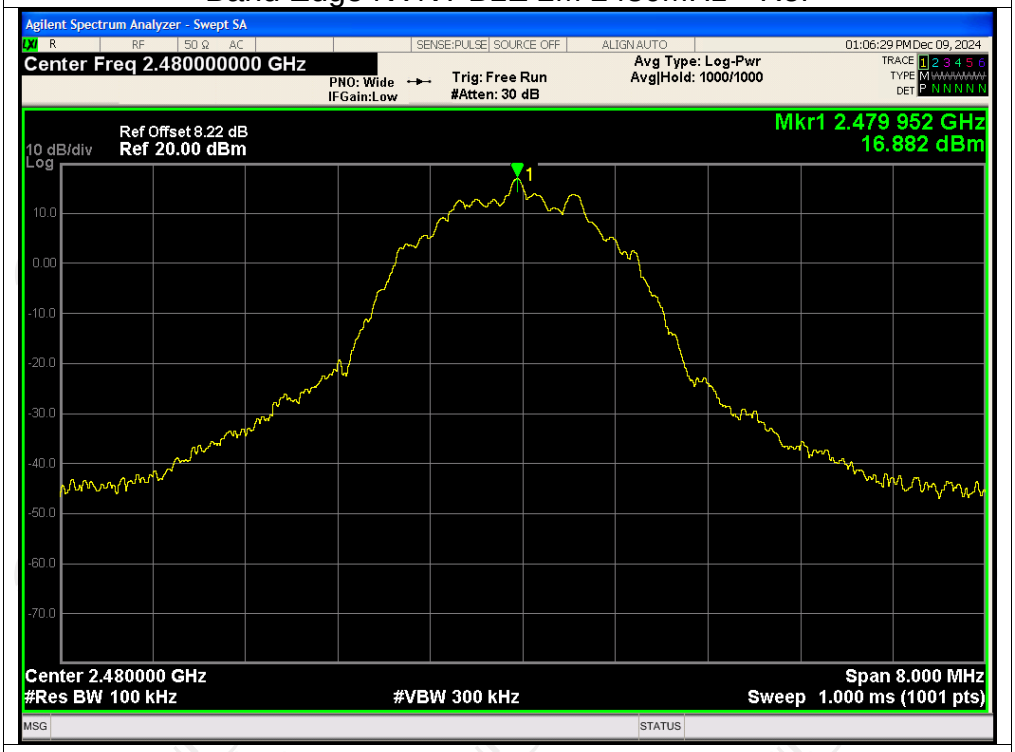
Band Edge NVNT BLE 2M 2402MHz Ref



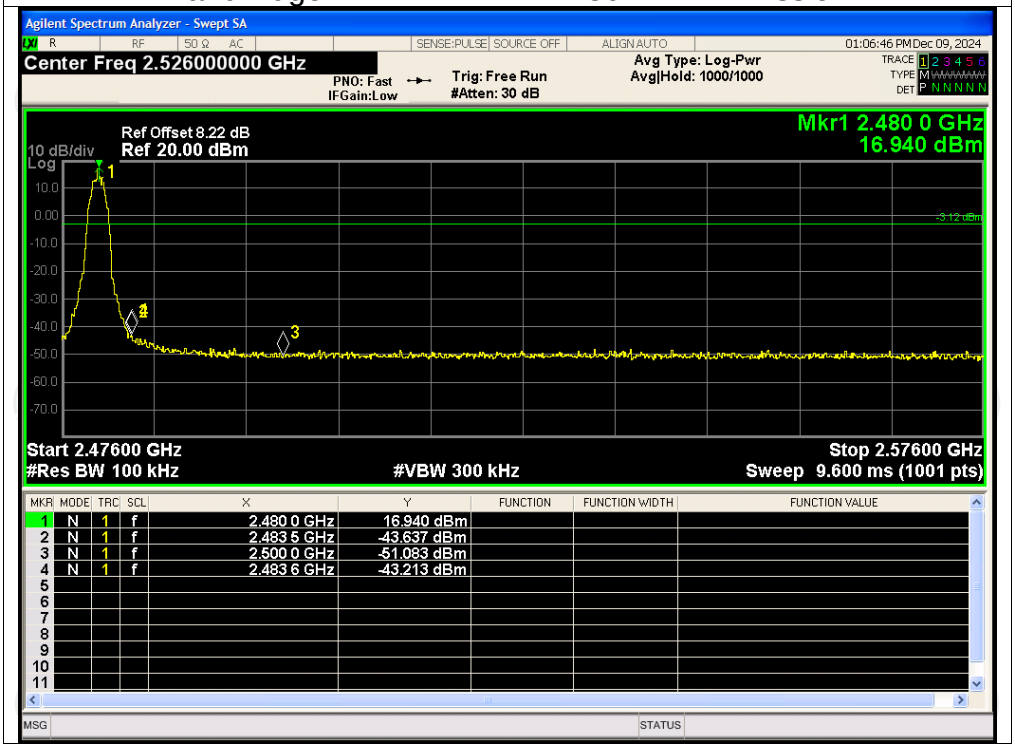
Band Edge NVNT BLE 2M 2402MHz Emission



Band Edge NVNT BLE 2M 2480MHz Ref

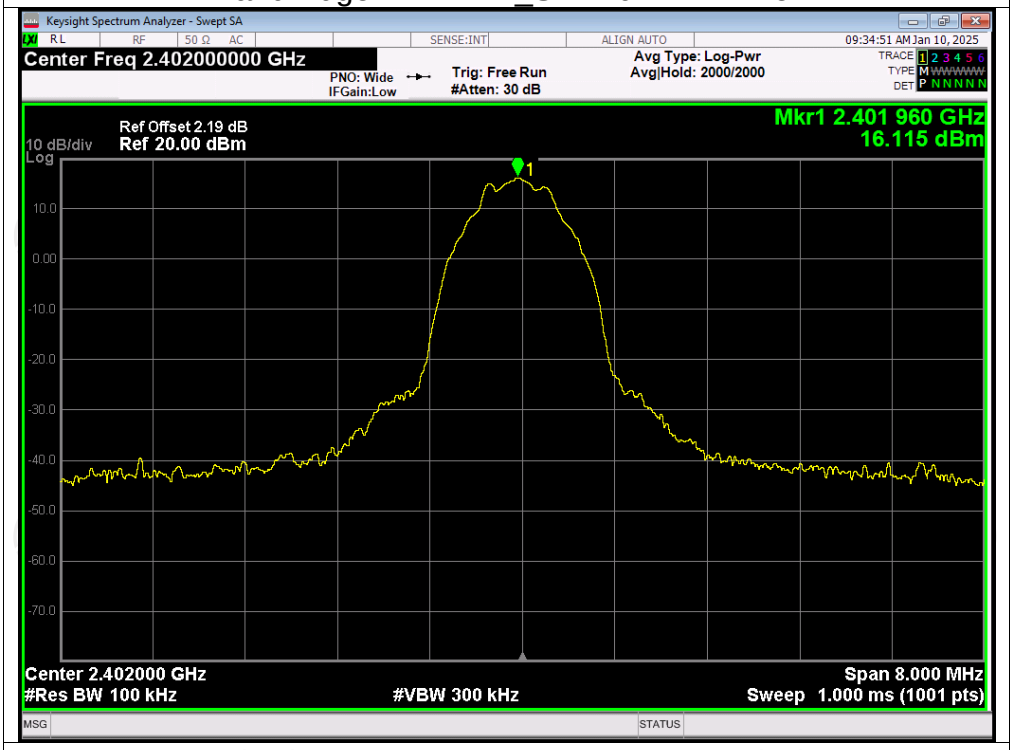


Band Edge NVNT BLE 2M 2480MHz Emission

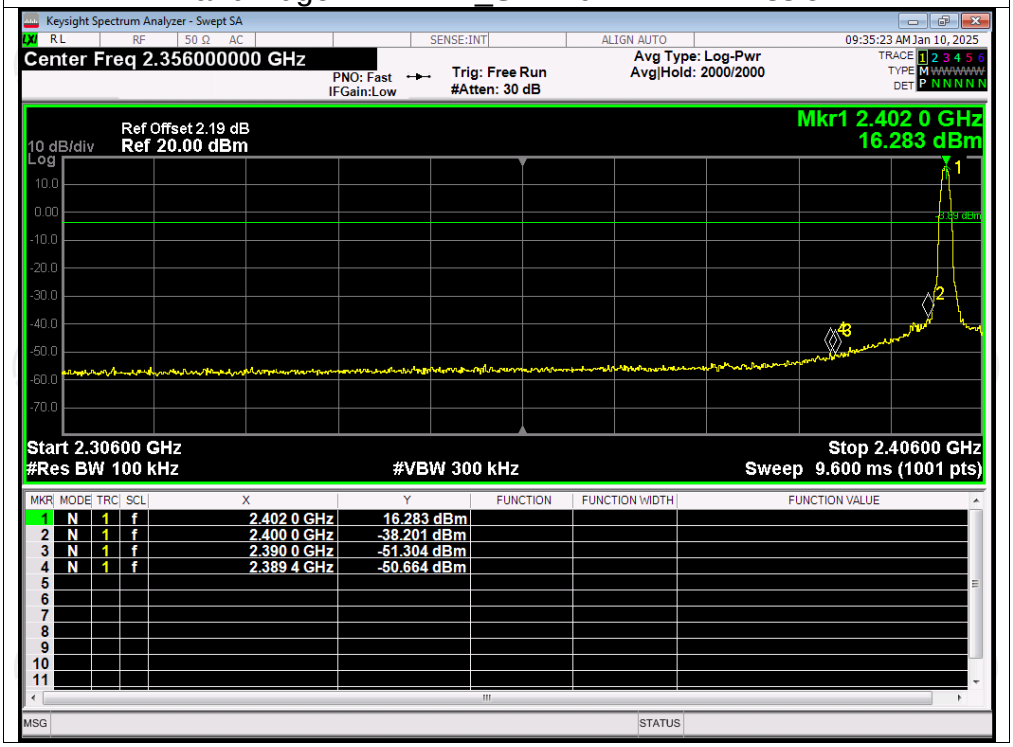


Test Graphs

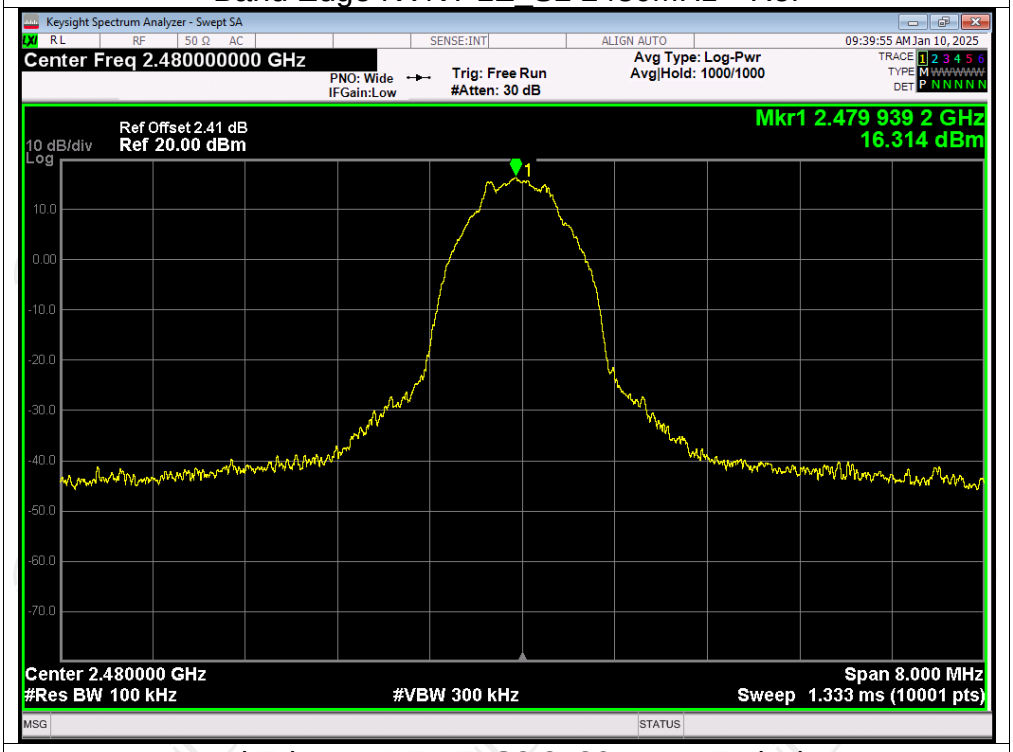
Band Edge NVNT LE_S2 2402MHz Ref



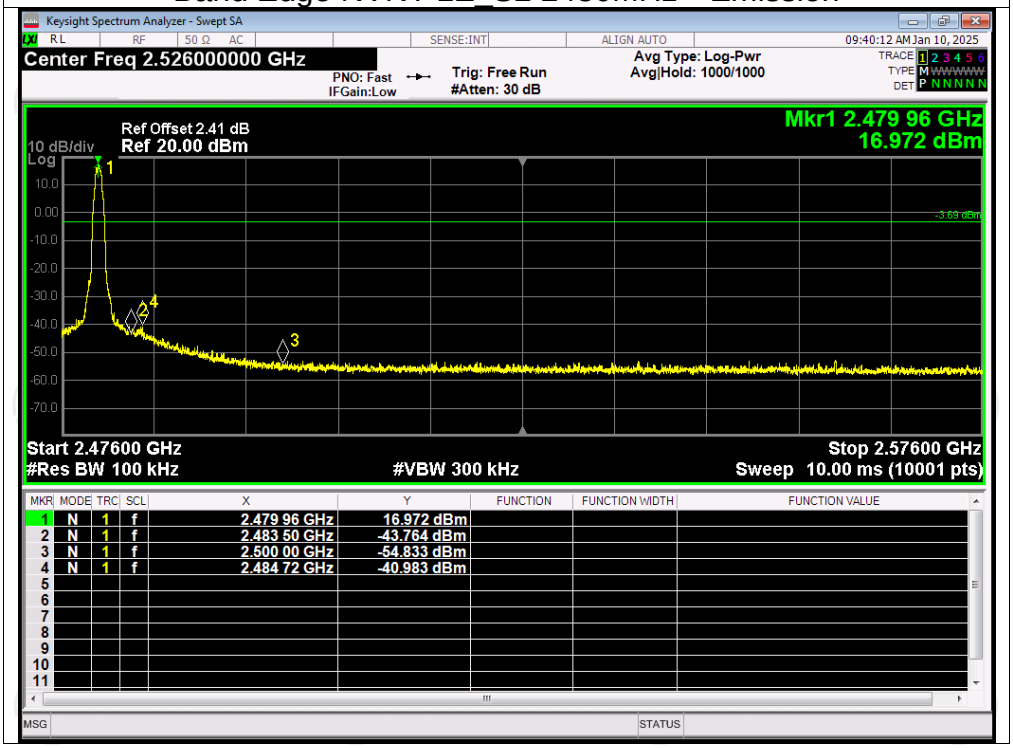
Band Edge NVNT LE_S2 2402MHz Emission



Band Edge NVNT LE_S2 2480MHz Ref

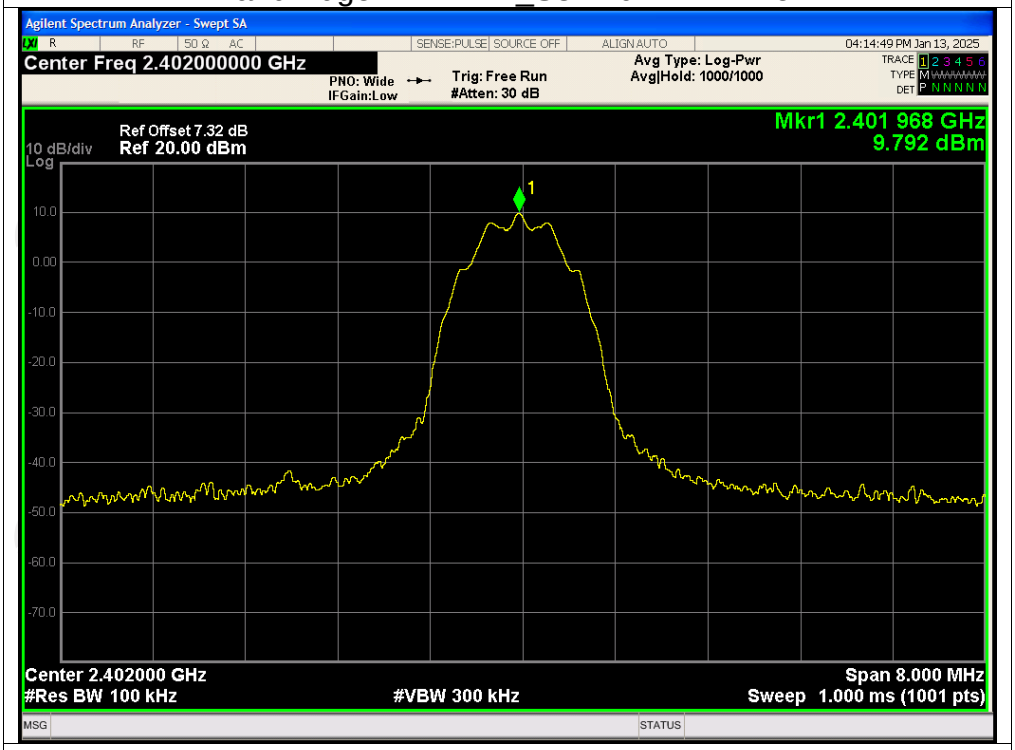


Band Edge NVNT LE_S2 2480MHz Emission

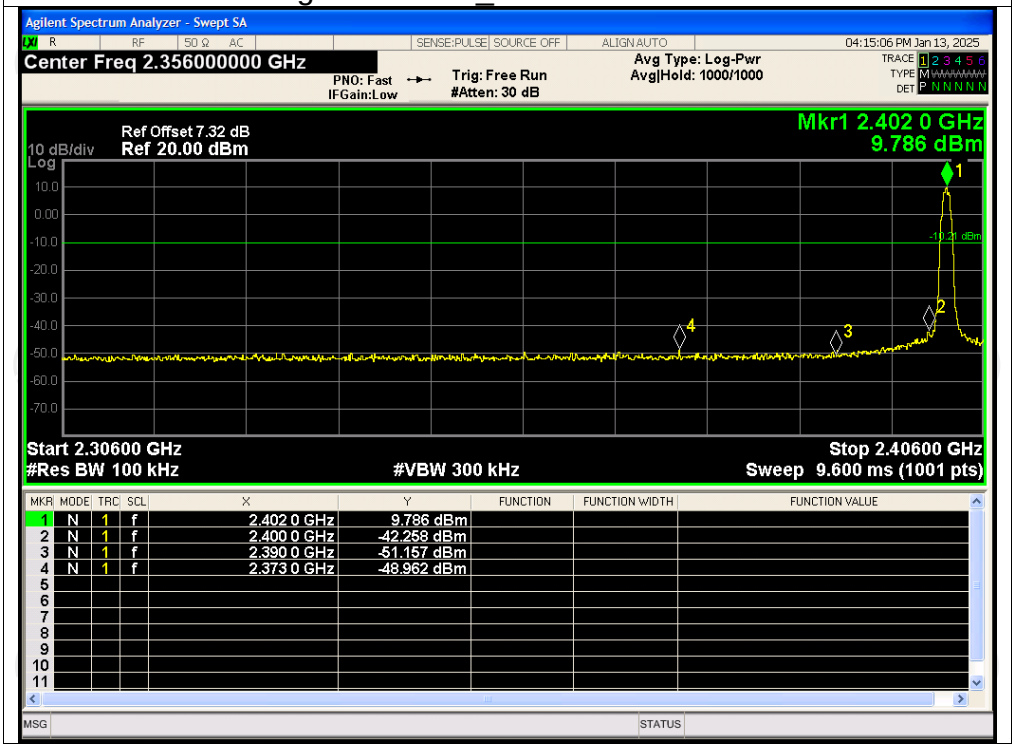


Test Graphs

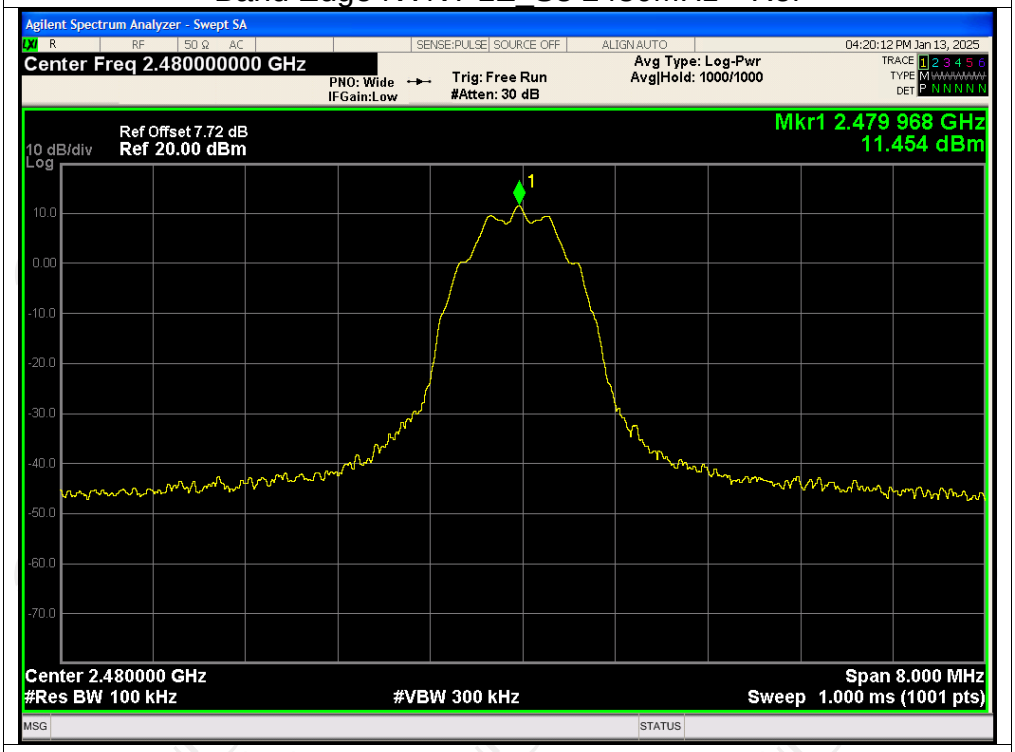
Band Edge NVNT LE_S8 2402MHz Ref



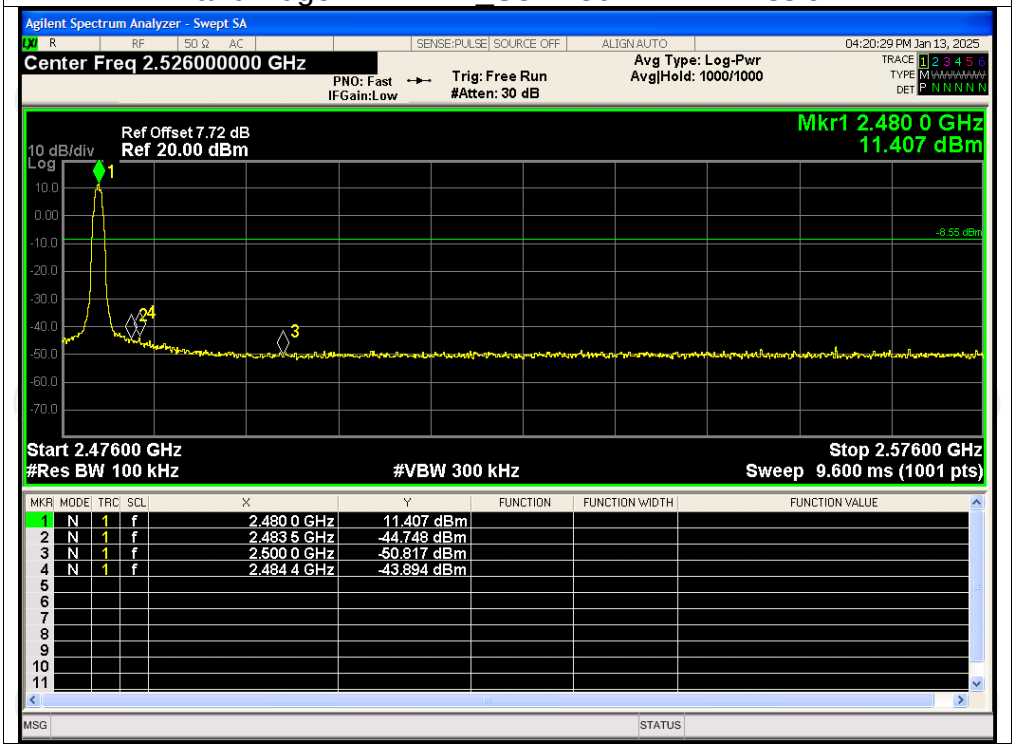
Band Edge NVNT LE_S8 2402MHz Emission



Band Edge NVNT LE_S8 2480MHz Ref



Band Edge NVNT LE_S8 2480MHz Emission



Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-56.75	-20	Pass
NVNT	BLE 1M	2440	-55.59	-20	Pass
NVNT	BLE 1M	2480	-55.98	-20	Pass
NVNT	BLE 2M	2402	-57.27	-20	Pass
NVNT	BLE 2M	2440	-56.04	-20	Pass
NVNT	BLE 2M	2480	-55.60	-20	Pass
NVNT	LE_S2	2402	-55.59	-20	Pass
NVNT	LE_S2	2440	-58.50	-20	Pass
NVNT	LE_S2	2480	-58.96	-20	Pass
NVNT	LE_S8	2402	-50.62	-20	Pass
NVNT	LE_S8	2440	-50.37	-20	Pass
NVNT	LE_S8	2480	-51.68	-20	Pass

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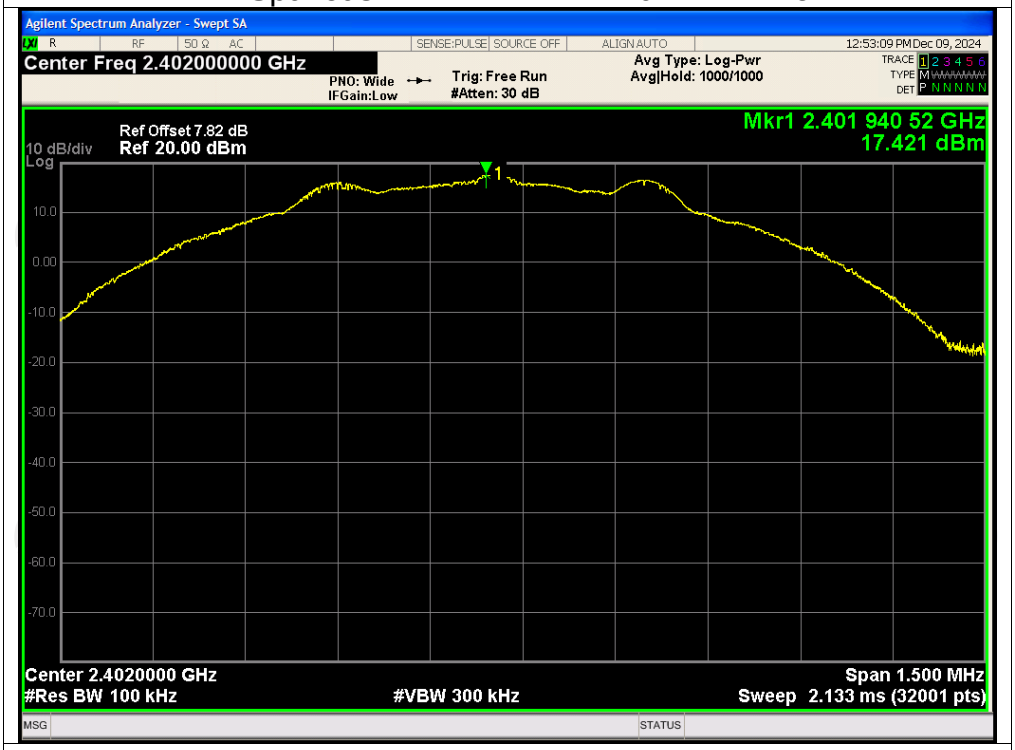
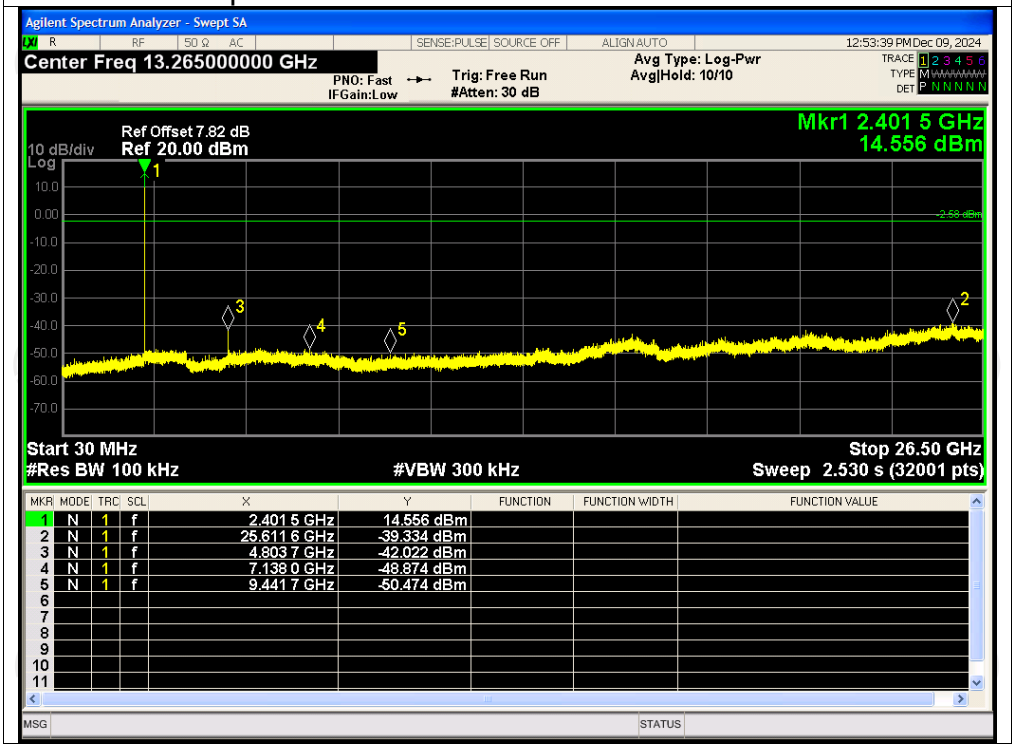
Test Graphs

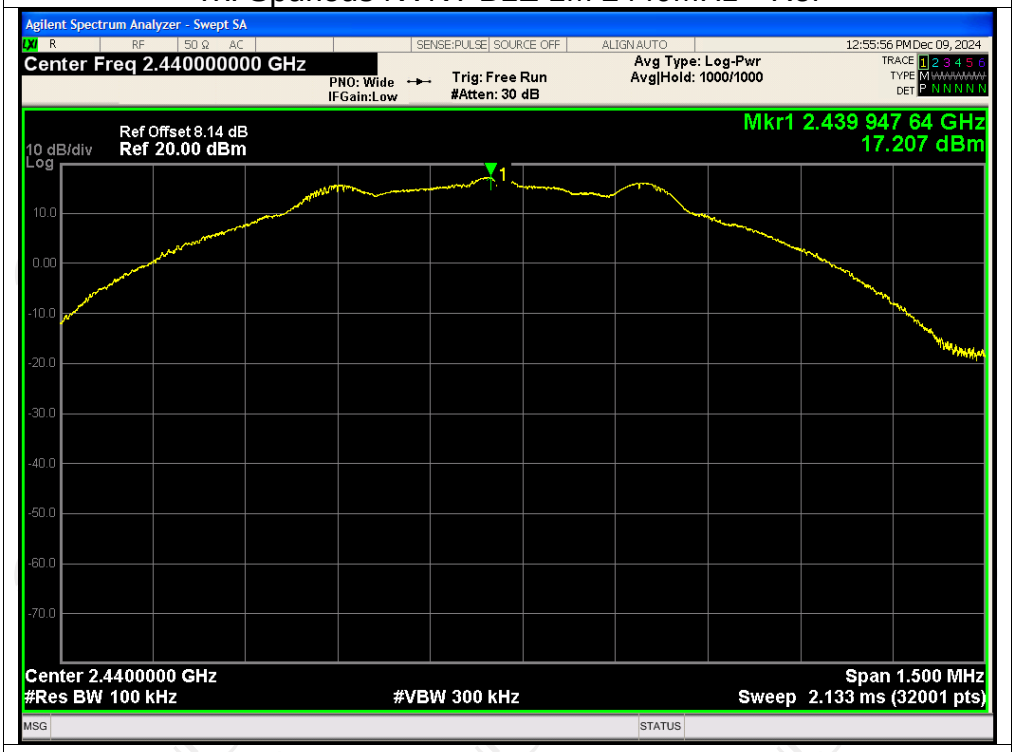
Tx. Spurious NVNT BLE 1M 2402MHz Ref



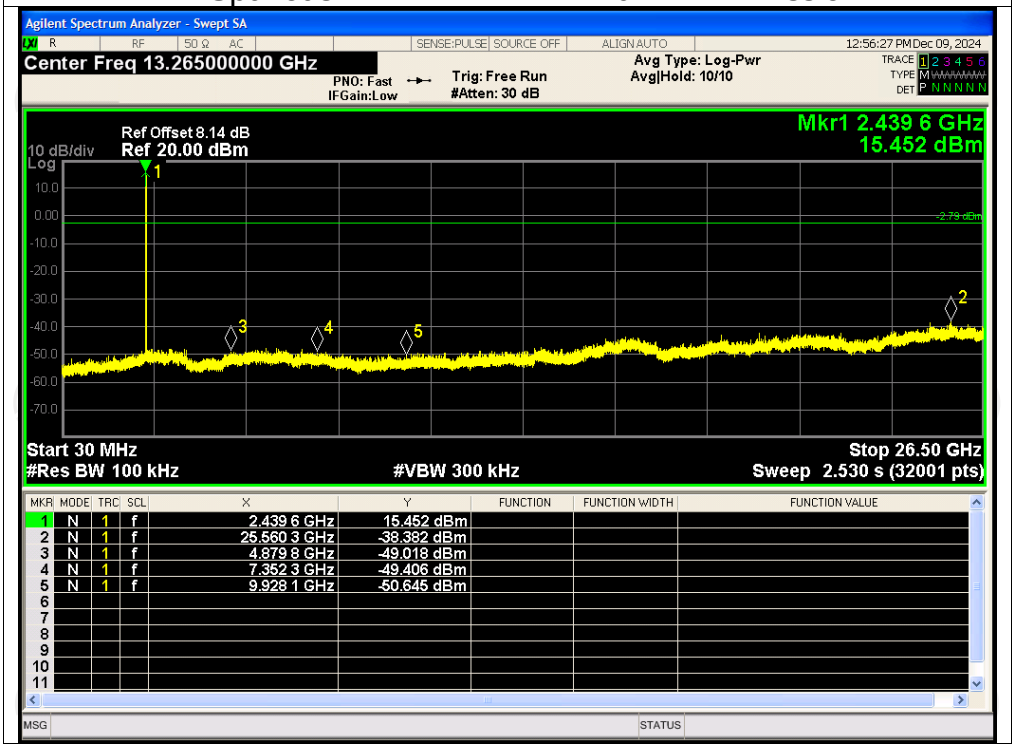
Tx. Spurious NVNT BLE 1M 2402MHz Emission



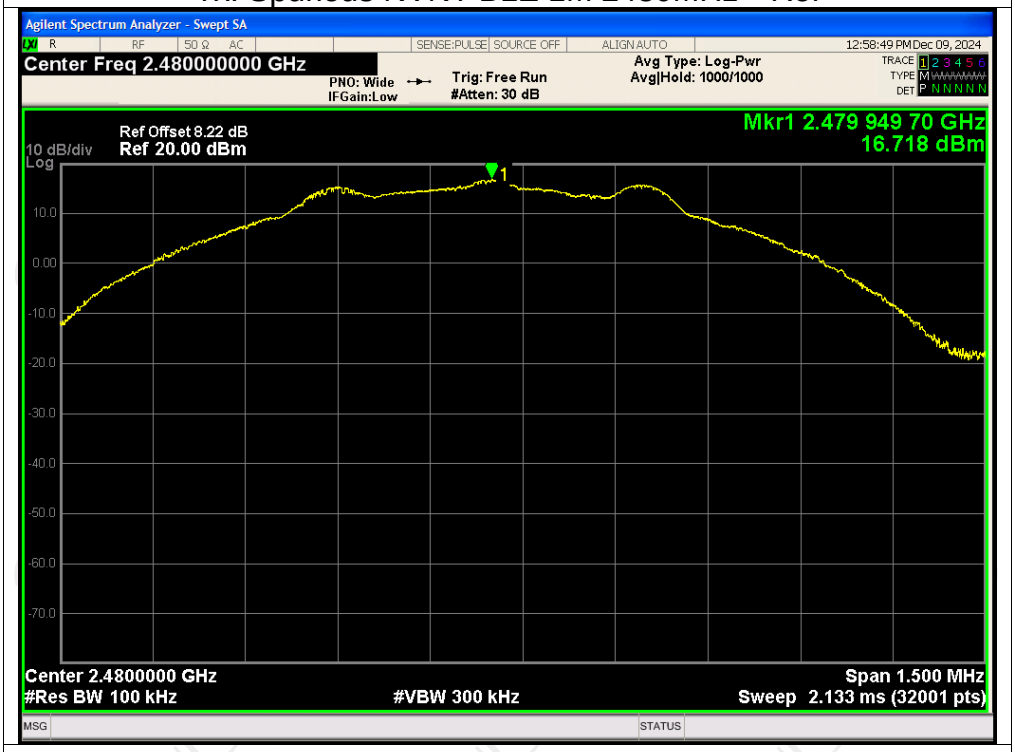
Tx. Spurious NVNT BLE 1M 2440MHz Ref



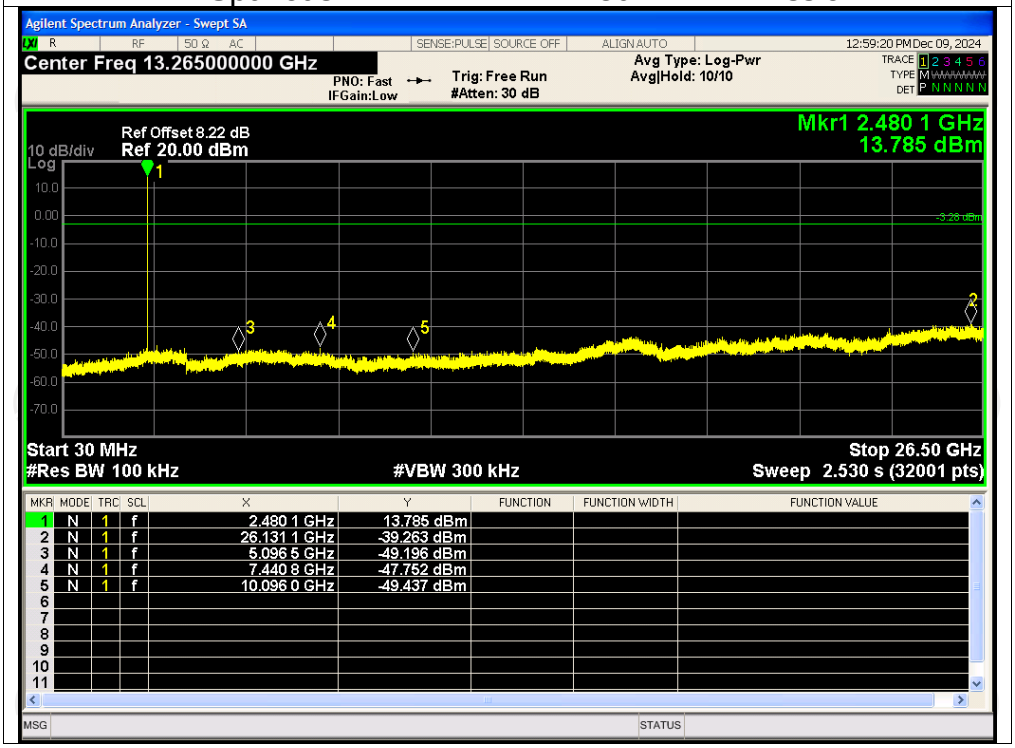
Tx. Spurious NVNT BLE 1M 2440MHz Emission



Tx. Spurious NVNT BLE 1M 2480MHz Ref

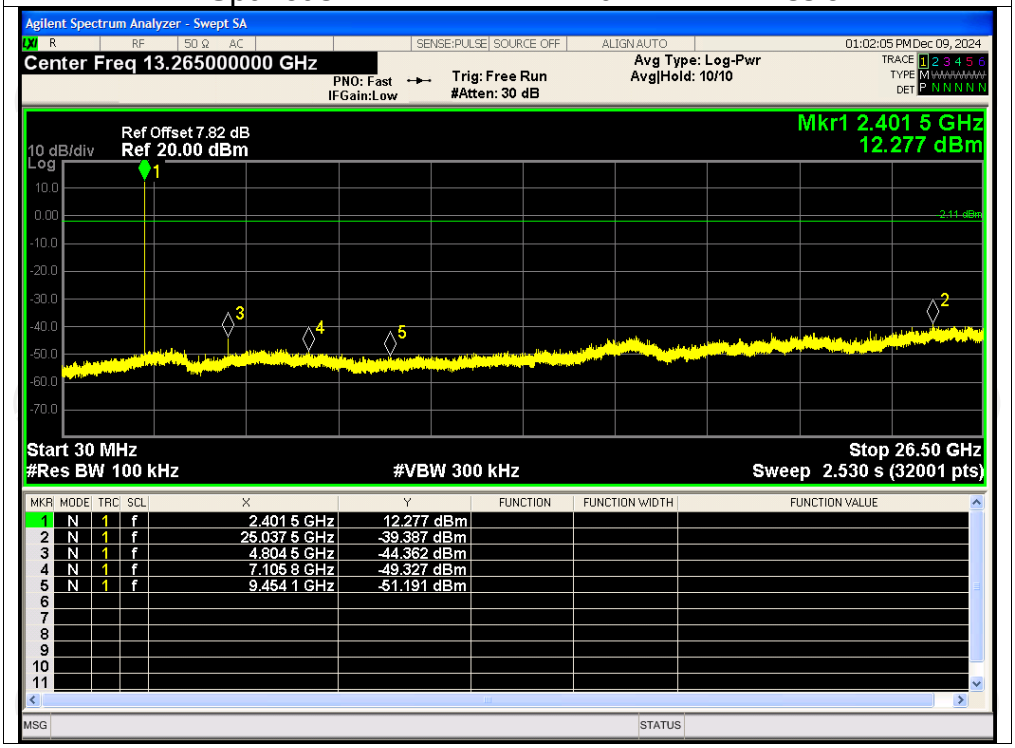


Tx. Spurious NVNT BLE 1M 2480MHz Emission



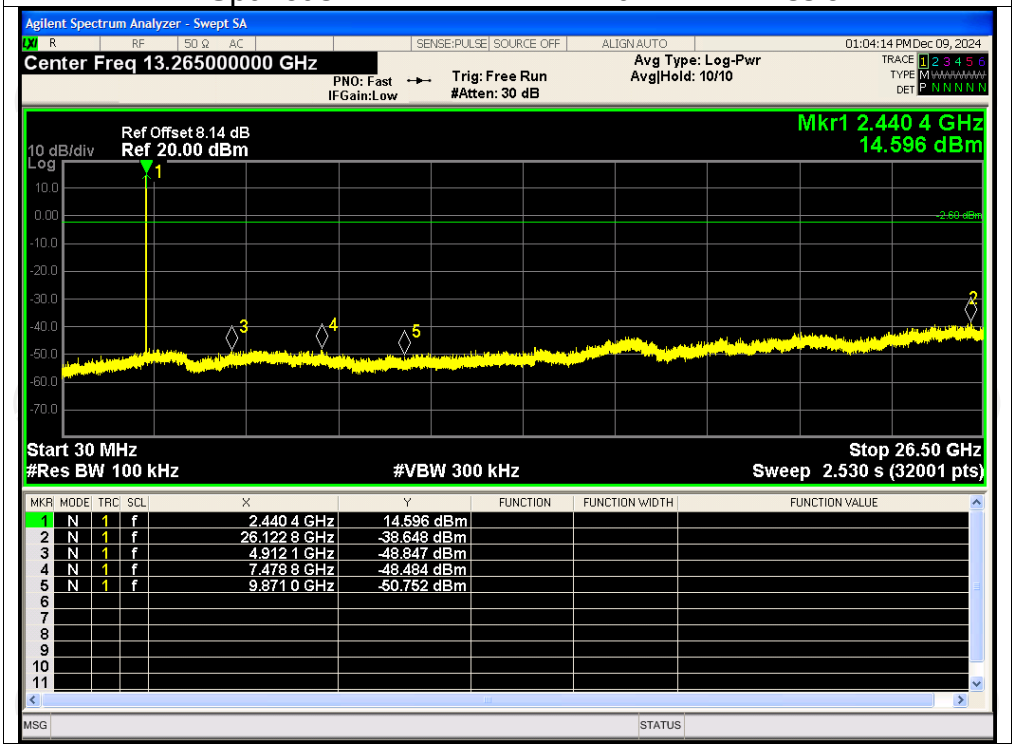
Tx. Spurious NVNT BLE 2M 2402MHz Ref

Tx. Spurious NVNT BLE 2M 2402MHz Emission



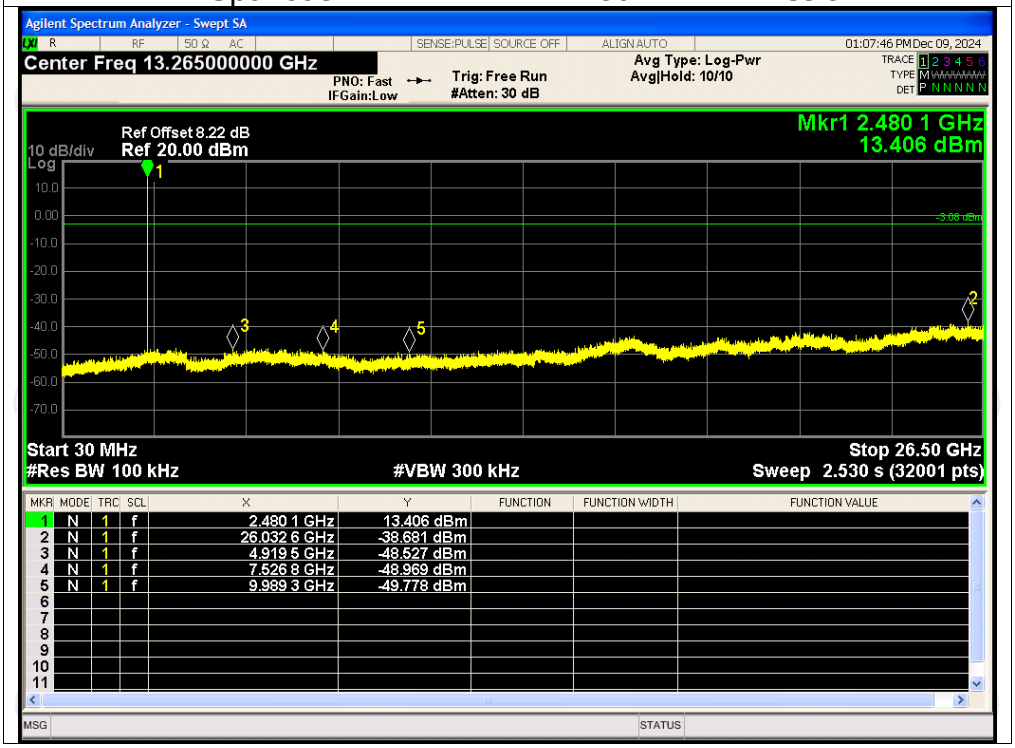
Tx. Spurious NVNT BLE 2M 2440MHz Ref

Tx. Spurious NVNT BLE 2M 2440MHz Emission



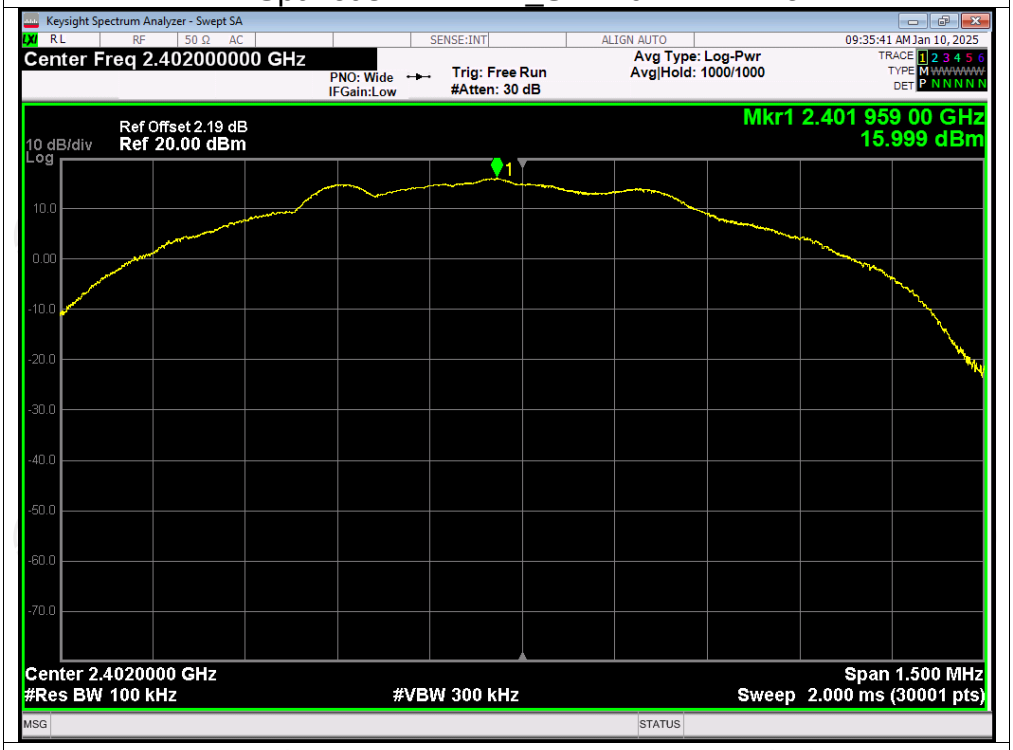
Tx. Spurious NVNT BLE 2M 2480MHz Ref

Tx. Spurious NVNT BLE 2M 2480MHz Emission

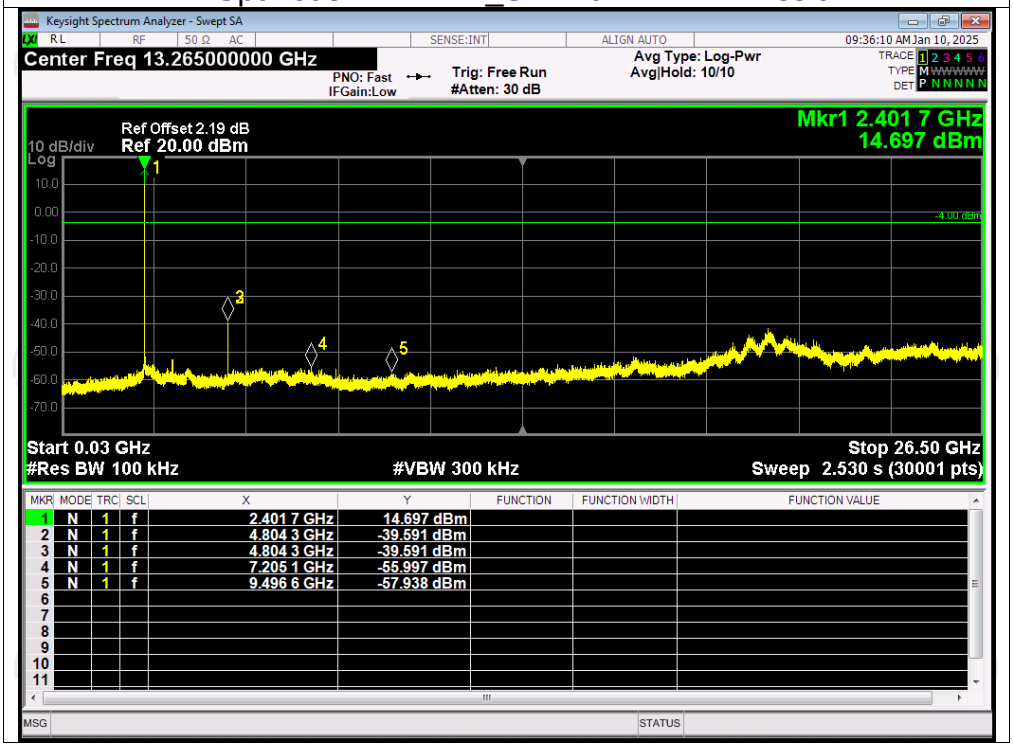


Test Graphs

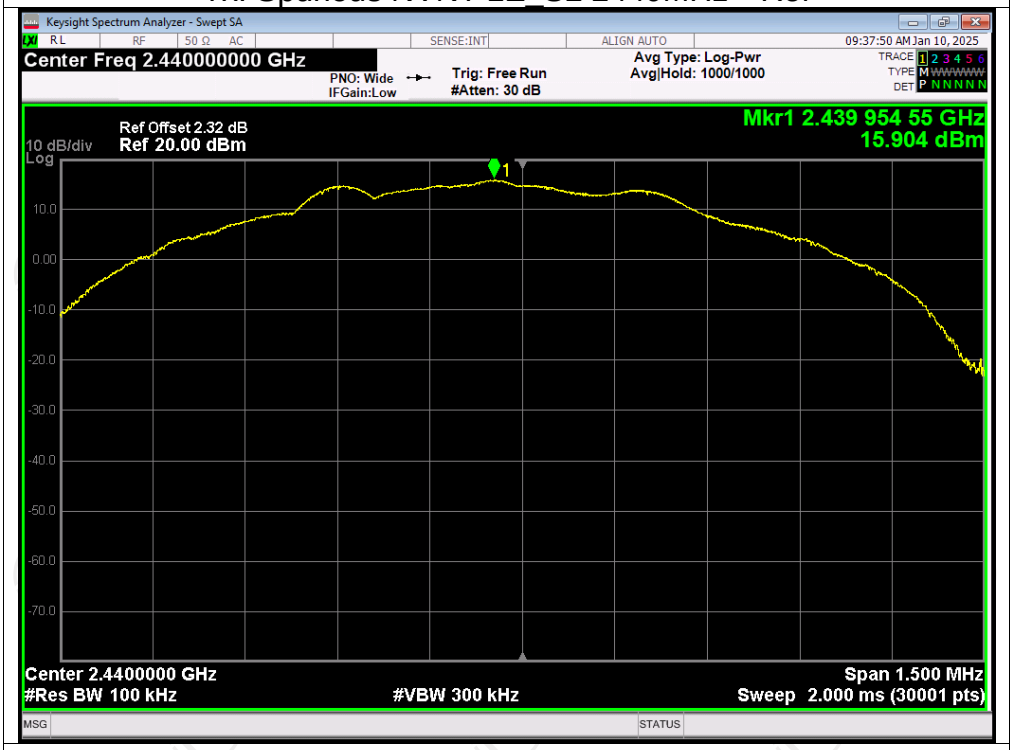
Tx. Spurious NVNT LE_S2 2402MHz Ref



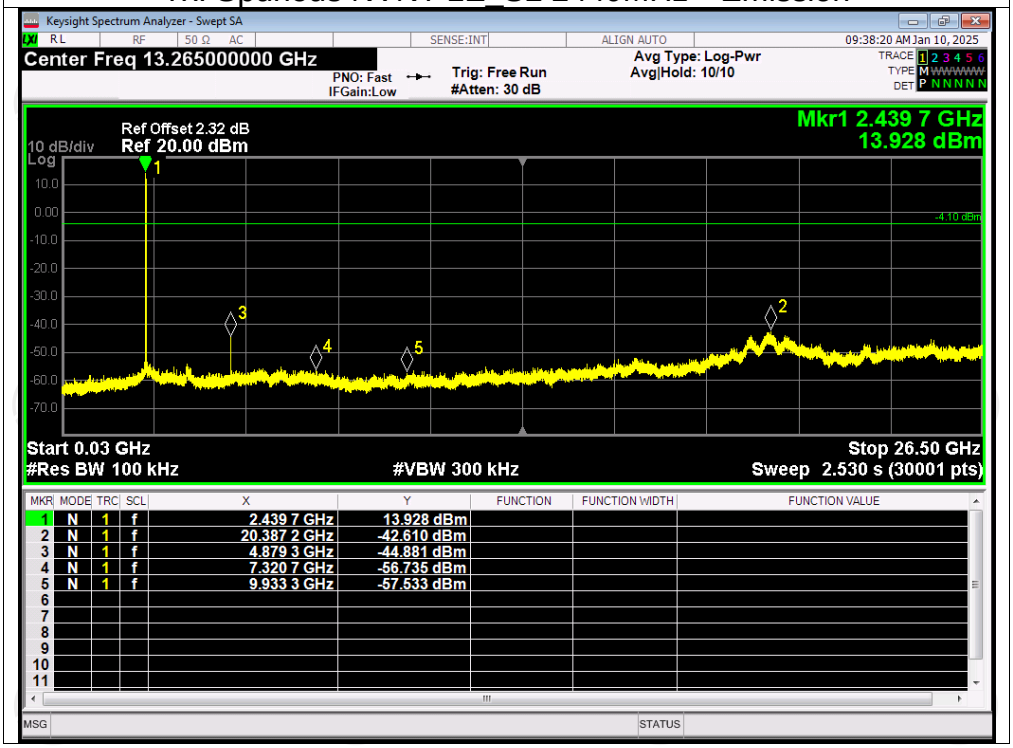
Tx. Spurious NVNT LE_S2 2402MHz Emission



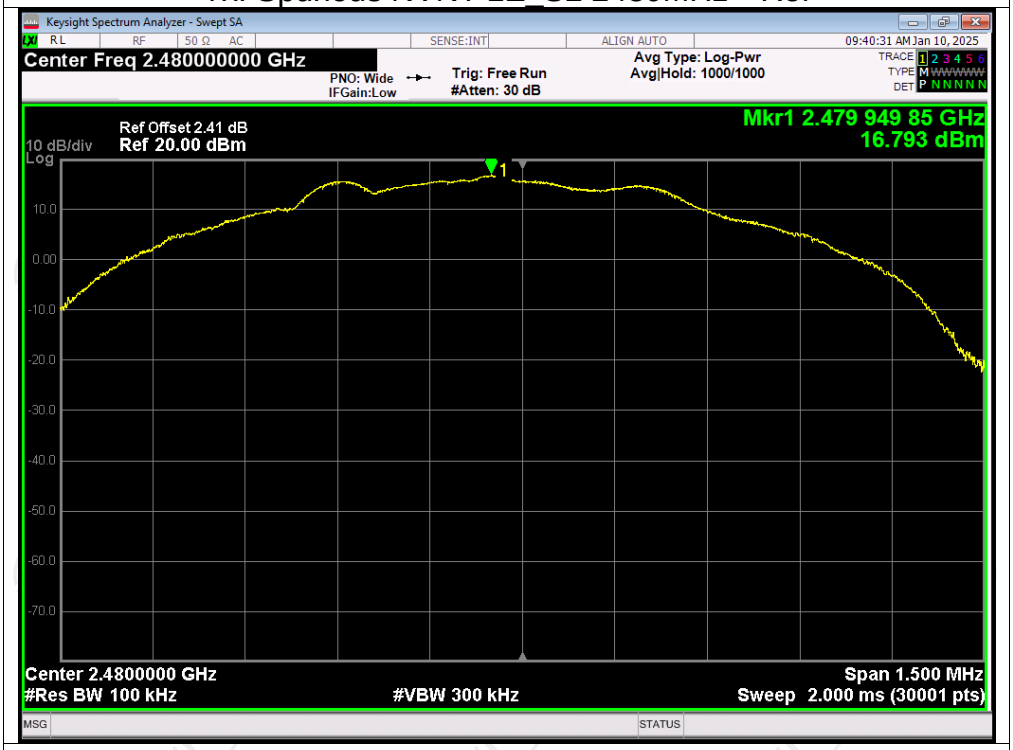
Tx. Spurious NVNT LE_S2 2440MHz Ref



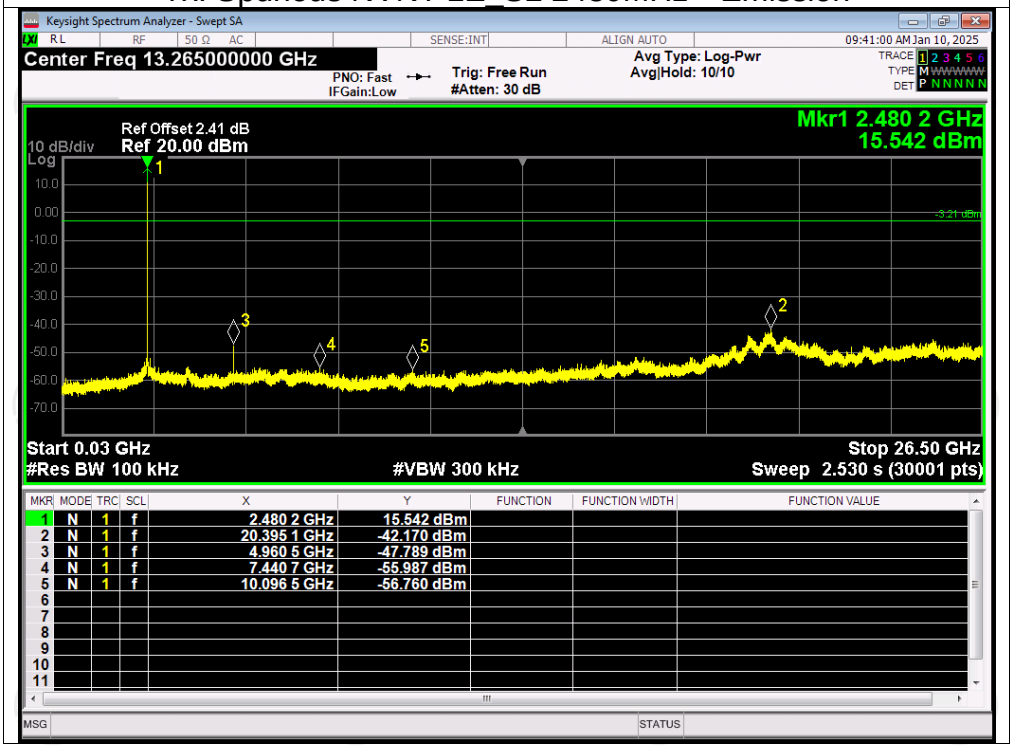
Tx. Spurious NVNT LE_S2 2440MHz Emission



Tx. Spurious NVNT LE_S2 2480MHz Ref

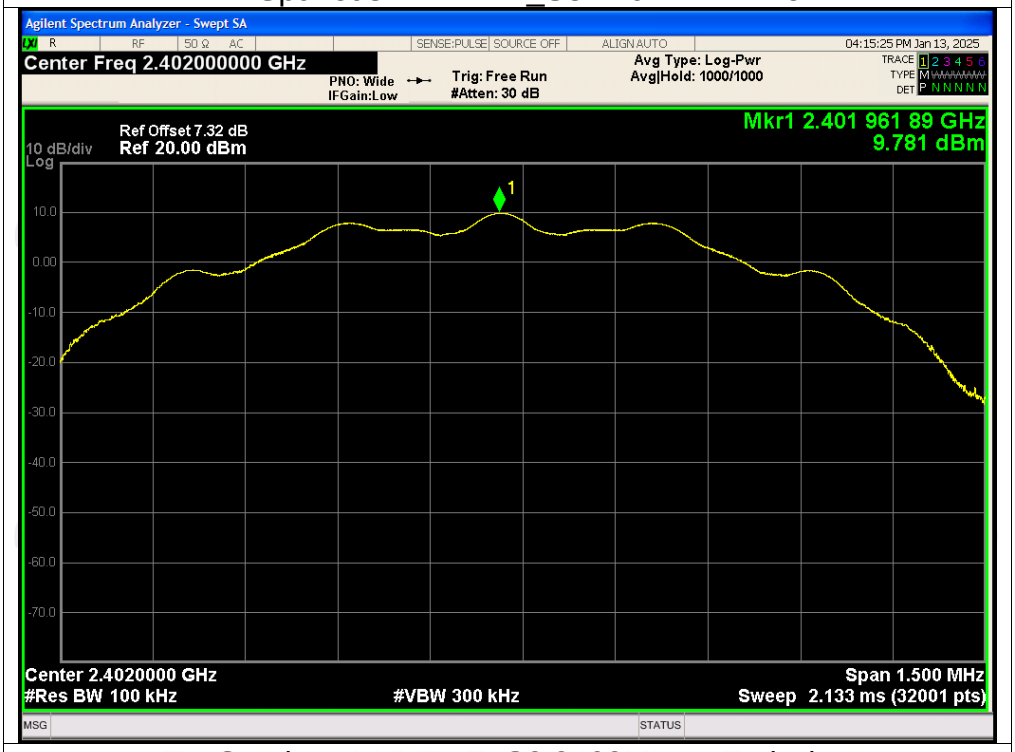


Tx. Spurious NVNT LE_S2 2480MHz Emission

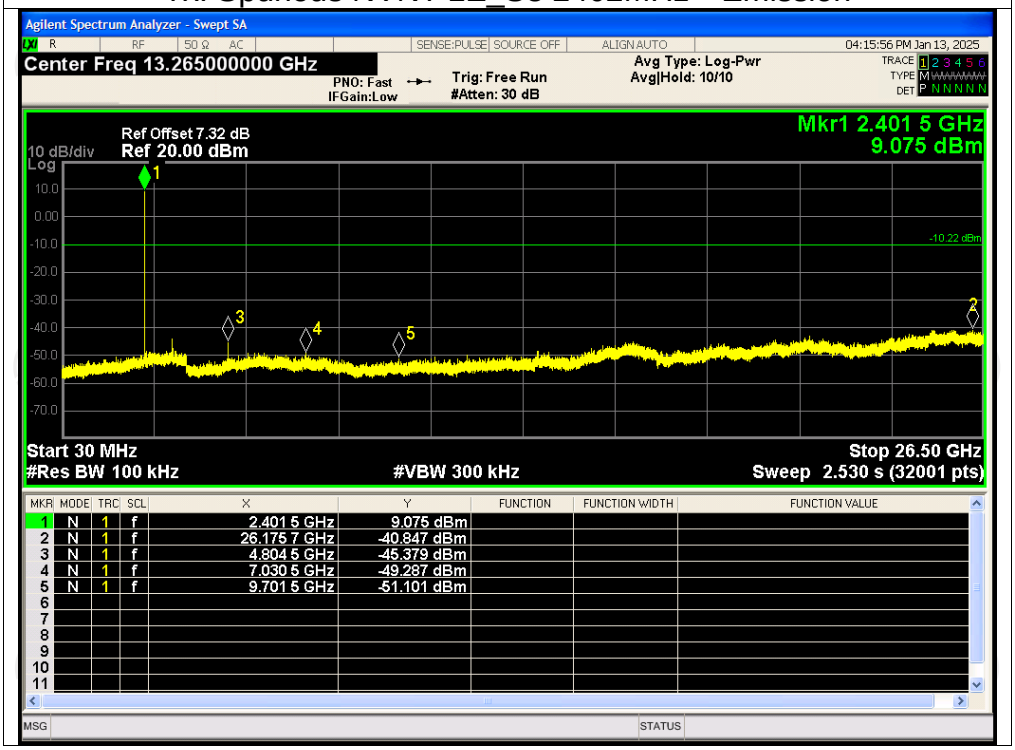


Test Graphs

Tx. Spurious NVNT LE_S8 2402MHz Ref

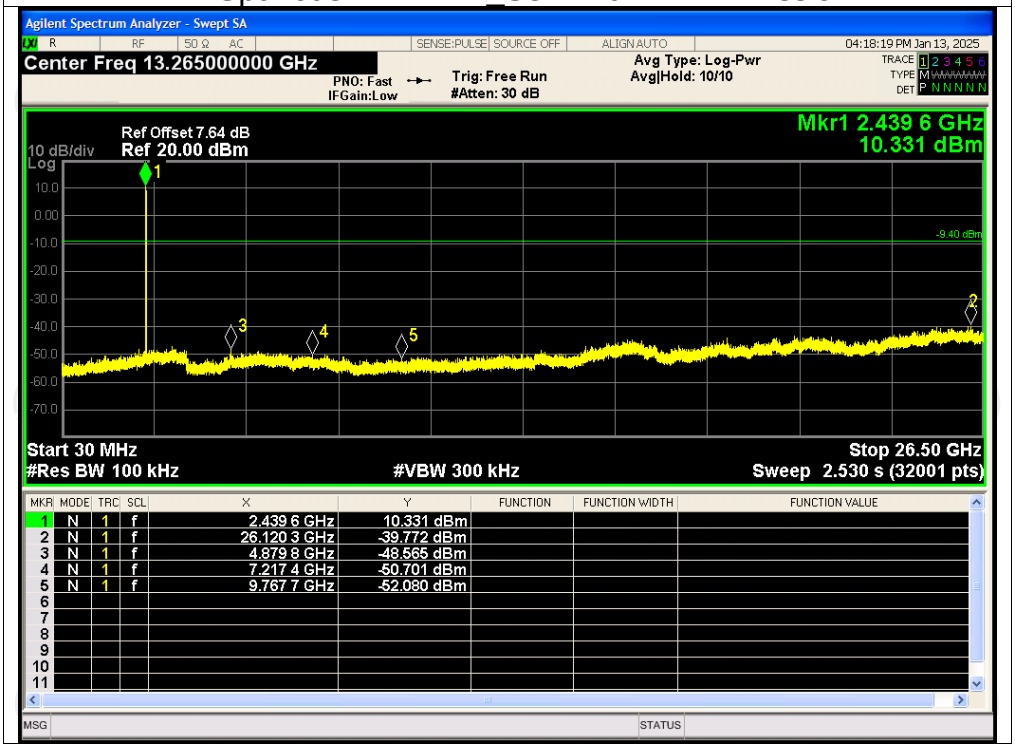


Tx. Spurious NVNT LE_S8 2402MHz Emission

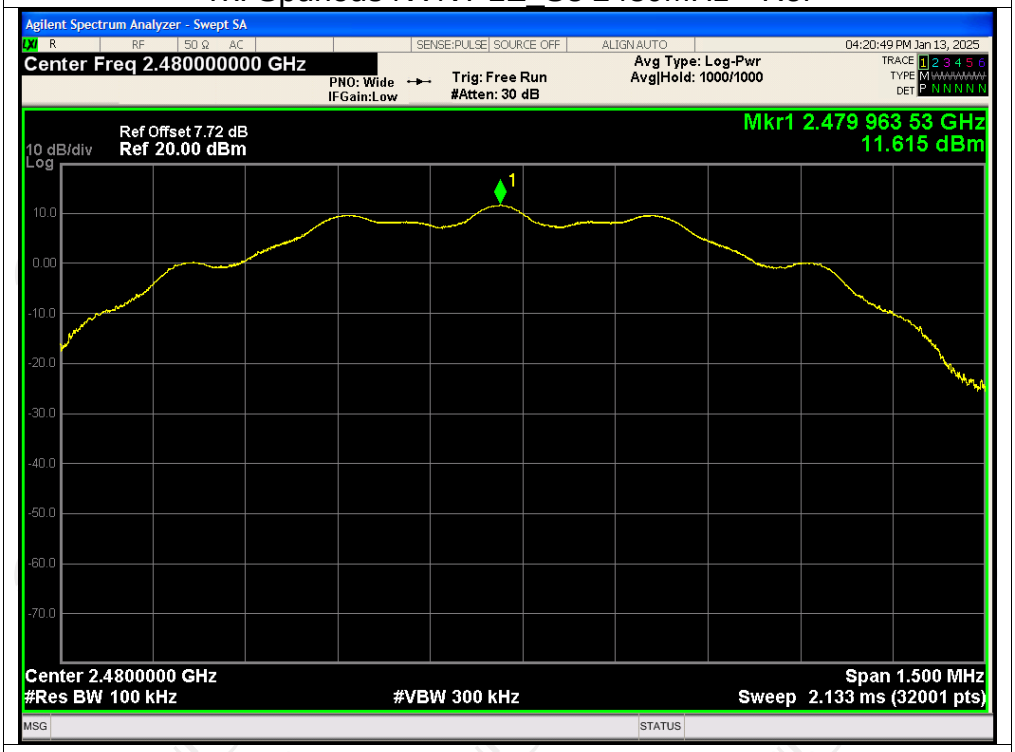


Tx. Spurious NVNT LE_S8 2440MHz Ref

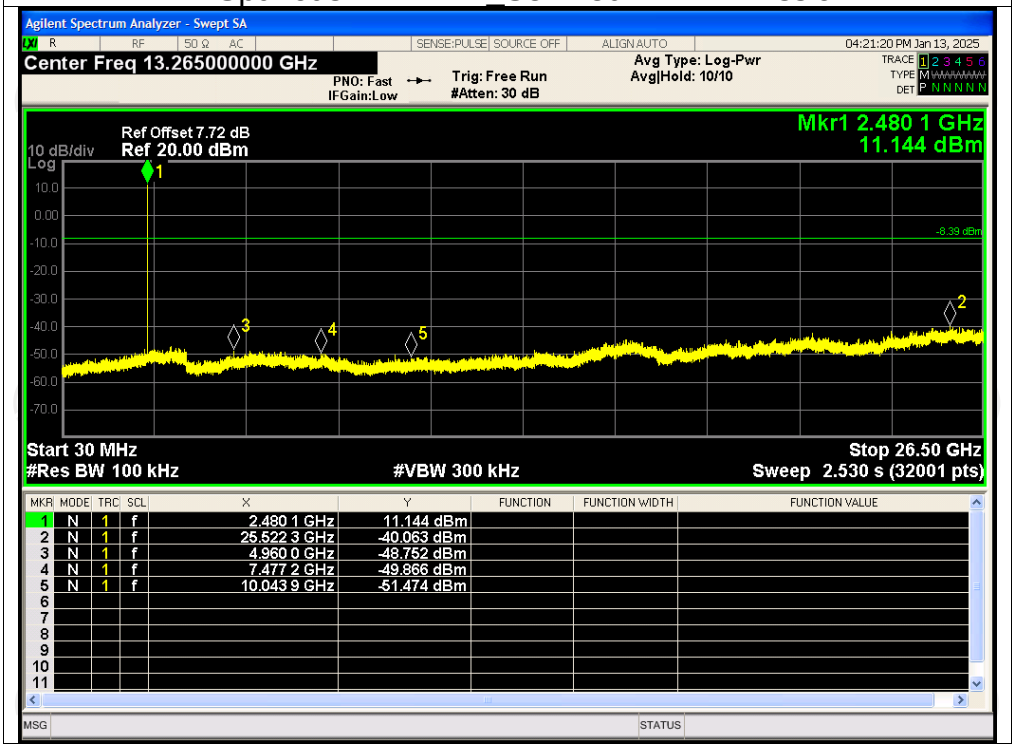
Tx. Spurious NVNT LE_S8 2440MHz Emission



Tx. Spurious NVNT LE_S8 2480MHz Ref



Tx. Spurious NVNT LE_S8 2480MHz Emission



Appendix B: Photographs of Test Setup

Please refer to document Appendix No.: TCT241205E016-A

Appendix C: Photographs of EUT

Please refer to document Appendix No.: TCT241205E016-B & TCT241205E016-C

********END OF REPORT********

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