

TEST REPORT

FCC ID.	2BMKU-24ULTRA
Test Report No.	TCT241125E034
Date of issue	Dec. 09, 2024
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 Ourunxun Technology Co., Ltd.
Address	102, Building B, Jinbolong Industrial Park, No. 26 Huaao Road, Yucui Community, Longhua Street, Longhua District, Shenzhen, China
Manufacturer's name ...	Tenghaoda Industrial Co., Ltd.
Address	Building 4, Zhujiiao Hongdu Industrial Park, Jiuwei, Xixiang, Bao'an District, Shenzhen
Standard(s)	FCC CFR Title 47 Part 15 Subpart E Section 15.407 KDB 662911 D01 Multiple Transmitter Output v02r01 KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Product Name	Smart Phone
Trade Mark	N/A
Model/Type reference	24 Ultra, S24 Ultra 5G., C24 Ultra, C24 Pro, C24+, S25 Ultra, S25 Ultra 5G, 25 Ultra, C25 Ultra, S24 Ultra
Rating(s)	Adapter Information: Input: AC 110-240V, 50/60Hz, 300mA Output: DC 5.0V, 2.0A Rechargeable Li-ion Battery DC 3.8V
Date of receipt of test item	Nov. 25, 2024
Date (s) of performance of test	Nov. 25, 2024 ~ Dec. 09, 2024
Tested by (+signature) ...	Brews XU
Check by (+signature)	Beryl ZHAO
Approved by (+signature):	Tomsin

General disclaimer:

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1. General Product Information

1.1. EUT description

Product Name.....:	Smart Phone
Model/Type reference.....:	24 Ultra
Sample Number.....:	TCT241125E005-0101
Operation Frequency	Band 1: 5180 MHz ~ 5240 MHz Band 3: 5745 MHz ~ 5825 MHz
Channel Bandwidth.....:	802.11a: 20MHz 802.11n: 20MHz, 40MHz 802.11ac: 20MHz, 40MHz
Modulation Technology	Orthogonal Frequency Division Multiplexing(OFDM)
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK
Antenna Type.....:	FPC Antenna
Antenna Gain.....:	Band 1: 0.66dBi Band 3: 0.52dBi
Rating(s).....:	Adapter Information: Input: AC 110-240V, 50/60Hz, 300mA Output: DC 5.0V, 2.0A Rechargeable Li-ion Battery DC 3.8V

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

No.	Model No.	Tested with
1	24 Ultra	☒
Other models	S24 Ultra 5G., C24 Ultra, C24 Pro, C24+, S25 Ultra, S25 Ultra 5G, 25 Ultra, C25 Ultra, S24 Ultra	☐

Note: 24 Ultra is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of 24 Ultra can represent the remaining models.

1.3. Test Frequency

Band 1

20MHz		40MHz	
Channel	Frequency	Channel	Frequency
36	5180	38	5190
40	5200	46	5230
48	5240		

Band 3

20MHz		40MHz	
Channel	Frequency	Channel	Frequency
149	5745	151	5755
157	5785	159	5795
165	5825		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.407(a)	PASS
6dB Emission Bandwidth	§15.407(a)	PASS
26dB Emission Bandwidth& 99% Occupied Bandwidth	§15.407(a)	PASS
Power Spectral Density	§15.407(a)	PASS
Restricted Bands around fundamental frequency	§15.407(b)	PASS
Radiated Emission	§15.407(b)	PASS
Frequency Stability	§15.407(g)	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.
5. For the band 5.15-5.25GHz, EUT meet the requirements of 15.407(a)(ii).

3. General Information

3.1. Test environment and mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	22.3 °C	22.8 °C
Humidity:	47 % RH	50 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Software:		
Software Information:	Engineering mode	
Power Level:	Default	
Test Mode:		
Engineer mode:	Keep the EUT in continuous transmitting by select channel and modulations with max duty cycle	
The sample was placed 0.8m/1.5m for blow/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 are shown in Test Results of the following pages.		

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11a	6 Mbps
802.11n(HT20)	6.5 Mbps
802.11n(HT40)	13.5 Mbps
802.11ac(VHT20)	6.5 Mbps
802.11ac(VHT40)	13.5 Mbps

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, 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.

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

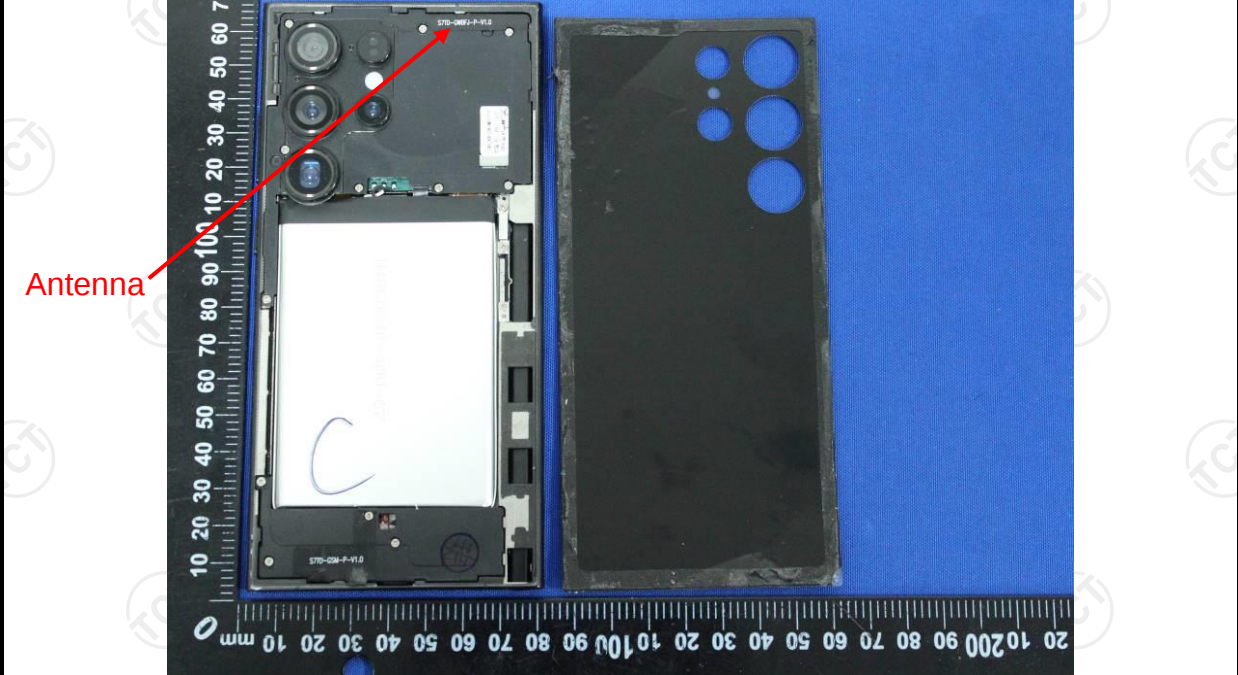
4.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded 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	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

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.	
E.U.T Antenna:	
The WIFI antenna is FPC antenna which permanently attached, and the best case gain of the antenna is 0.66dBi of Band 1.	
	

5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2020														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></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>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	Reference Plane 40cm E.U.T AC power 80cm LISN Filter AC power EMI Receiver Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m														
Test Mode:	Transmitting Mode														
Test Procedure:	1. The E.U.T and simulators are connected to the main power 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.														
Test Result:	PASS														

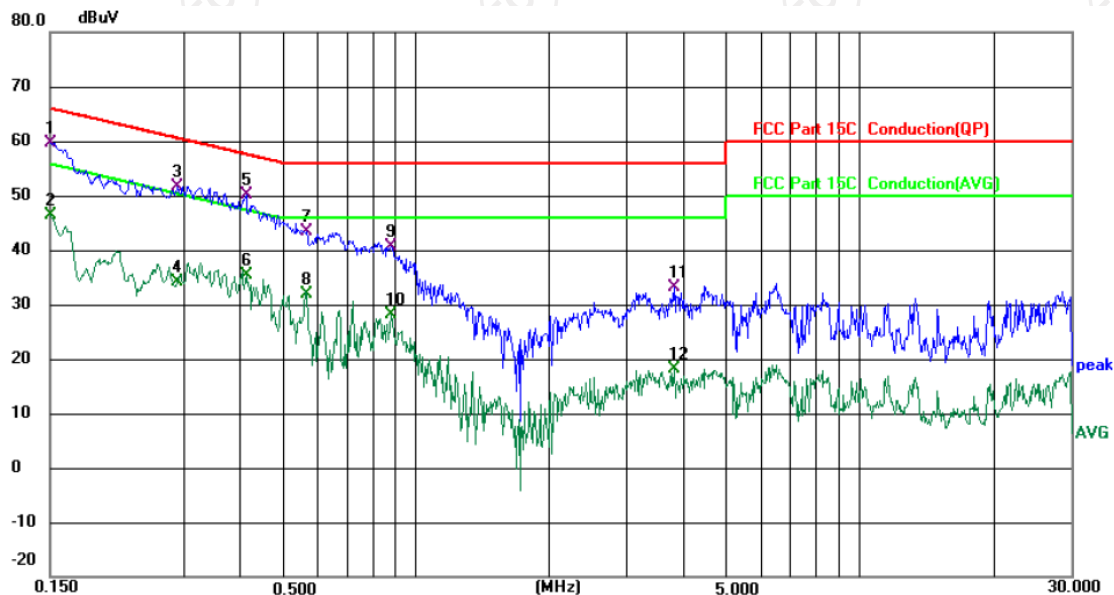
5.2.2. Test Instruments

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	/

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: 22.3 (°C)

Humidity: 47 %

Limit: FCC Part 15C Conduction(QP)

Power: AC 120 V/60 Hz

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1507	49.87	9.67	59.54	65.96	-6.42	QP	
2		0.1507	36.82	9.67	46.49	55.96	-9.47	AVG	
3		0.2900	41.99	9.66	51.65	60.52	-8.87	QP	
4		0.2900	24.45	9.66	34.11	50.52	-16.41	AVG	
5		0.4138	39.99	10.06	50.05	57.57	-7.52	QP	
6		0.4138	25.23	10.06	35.29	47.57	-12.28	AVG	
7		0.5664	33.01	10.25	43.26	56.00	-12.74	QP	
8		0.5664	21.57	10.25	31.82	46.00	-14.18	AVG	
9		0.8820	29.99	10.60	40.59	56.00	-15.41	QP	
10		0.8820	17.47	10.60	28.07	46.00	-17.93	AVG	
11		3.8260	22.96	10.07	33.03	56.00	-22.97	QP	
12		3.8260	7.96	10.07	18.03	46.00	-27.97	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

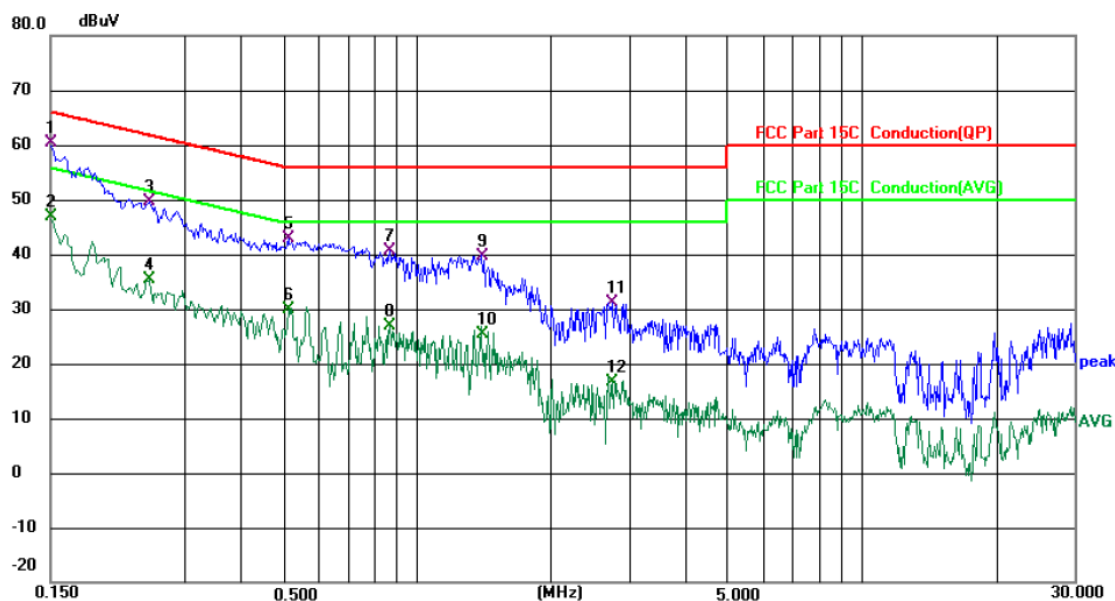
Margin (dB) = Measurement (dBμV) – Limits (dBμV)

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: 22.3 (°C)

Humidity: 47 %

Limit: FCC Part 15C Conduction(QP)

Power: AC 120 V/60 Hz

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	50.71	9.65	60.36	66.00	-5.64	QP	
2		0.1500	37.14	9.65	46.79	56.00	-9.21	AVG	
3		0.2500	40.09	9.63	49.72	61.76	-12.04	QP	
4		0.2500	25.75	9.63	35.38	51.76	-16.38	AVG	
5		0.5140	32.68	10.16	42.84	56.00	-13.16	QP	
6		0.5140	19.78	10.16	29.94	46.00	-16.06	AVG	
7		0.8700	29.96	10.56	40.52	56.00	-15.48	QP	
8		0.8700	16.24	10.56	26.80	46.00	-19.20	AVG	
9		1.3973	30.01	9.74	39.75	56.00	-16.25	QP	
10		1.3973	15.52	9.74	25.26	46.00	-20.74	AVG	
11		2.7500	21.26	9.88	31.14	56.00	-24.86	QP	
12		2.7500	6.75	9.88	16.63	46.00	-29.37	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.

Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40) and the worst case Mode (Lowest channel and 802.11a) was submitted only.

5.3. Maximum Conducted Output Power

5.3.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407(a)& Part 2 J Section 2.1046										
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E										
Limit:	<table border="1"> <thead> <tr> <th>Frequency Band (MHz)</th><th>Limit</th></tr> </thead> <tbody> <tr> <td>5180 - 5240</td><td>24dBm(250mW) for client device</td></tr> <tr> <td>5260 - 5320</td><td>24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz</td></tr> <tr> <td>5470 - 5725</td><td>24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz</td></tr> <tr> <td>5745 - 5825</td><td>30dBm(1W)</td></tr> </tbody> </table>	Frequency Band (MHz)	Limit	5180 - 5240	24dBm(250mW) for client device	5260 - 5320	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz	5470 - 5725	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz	5745 - 5825	30dBm(1W)
Frequency Band (MHz)	Limit										
5180 - 5240	24dBm(250mW) for client device										
5260 - 5320	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz										
5470 - 5725	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz										
5745 - 5825	30dBm(1W)										
Test Setup:	 The diagram illustrates the test setup. On the left is a green rectangular device labeled 'Power meter'. A black line representing an RF cable connects it to a yellow rectangular device on the right labeled 'EUT'.										
Test Mode:	Transmitting mode with modulation										
Test Procedure:	1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a 2. The RF output of EUT was connected to the power meter by RF cable. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 5. Measure the conducted output power and record the results in the test report.										
Test Result:	PASS										
Remark:	Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power										

5.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Power Meter	Agilent	E4418B	MY45100357	Jun. 26, 2025
Power Sensor	Agilent	8184A	MY41096530	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

5.4. 6dB Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	>500kHz
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C 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) = 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. 4. Measure and record the results in the test report.
Test Result:	PASS

5.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

5.5. 26dB Bandwidth and 99% Occupied Bandwidth

5.5.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
Limit:	No restriction limits
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D 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) = 1% to 5% of the OBW. Set the Video bandwidth (VBW) = 3 *RBW. In order to make an accurate measurement. 4. Measure and record the results in the test report.
Test Result:	PASS

5.5.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

5.6. Power Spectral Density

5.6.1. Test Specification

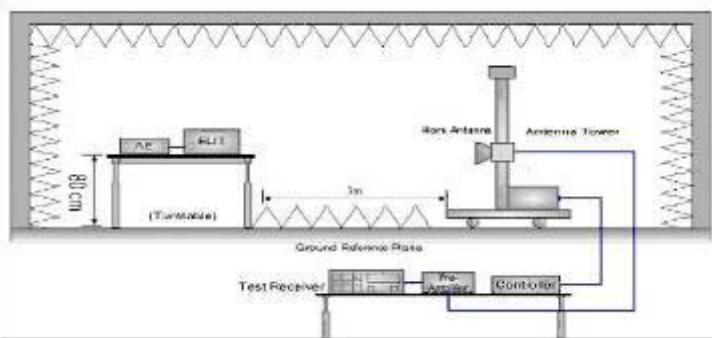
Test Requirement:	FCC Part15 E Section 15.407 (a)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F
Limit:	$\leq 11.00\text{dBm/MHz}$ for Band 1 5150MHz-5250MHz(client device) $\leq 11.00\text{dBm/MHz}$ for Band 2A&2C 5250-5350&5470-5725 $\leq 30.00\text{dBm/500KHz}$ for Band 3 5725MHz-5850MHz The e.i.r.p spectral density for Band 1 5150MHz – 5250 MHz should not exceed 10dBm/MHz
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. 1. Set RBW = 510 kHz/1 MHz, VBW $\geq 3 \times$ RBW, Sweep time = Auto, Detector = RMS. 2. Allow the sweeps to continue until the trace stabilizes. 3. Use the peak marker function to determine the maximum amplitude level. 4. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.
Test Result:	PASS

5.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

5.7. Band edge

5.7.1. Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407			
Test Method:	ANSI C63.10 2020			
Limit:	In un-restricted band: For Band 1&2A&2C: -27dBm/MHz For Band 3:			
	Frequency (MHz)	Limit (dBm/MHz)	Frequency (MHz)	Limit (dBm/MHz)
	< 5650	-27	5850~5855	27~15.6
	5650~5700	-27~10	5855~5875	15.6~10
	5700~5720	10~15.6	5875~5925	10~-27
	5720~5725	15.6~27	> 5925	-27
E[dBμV/m] = EIRP[dBm] + 95.2 @3m In restricted band:				
Detector		Limit@3m		
Peak		74dBμV/m		
AVG		54dBμV/m		
Test Setup:				
Test Mode:	Transmitting mode with modulation			
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold			

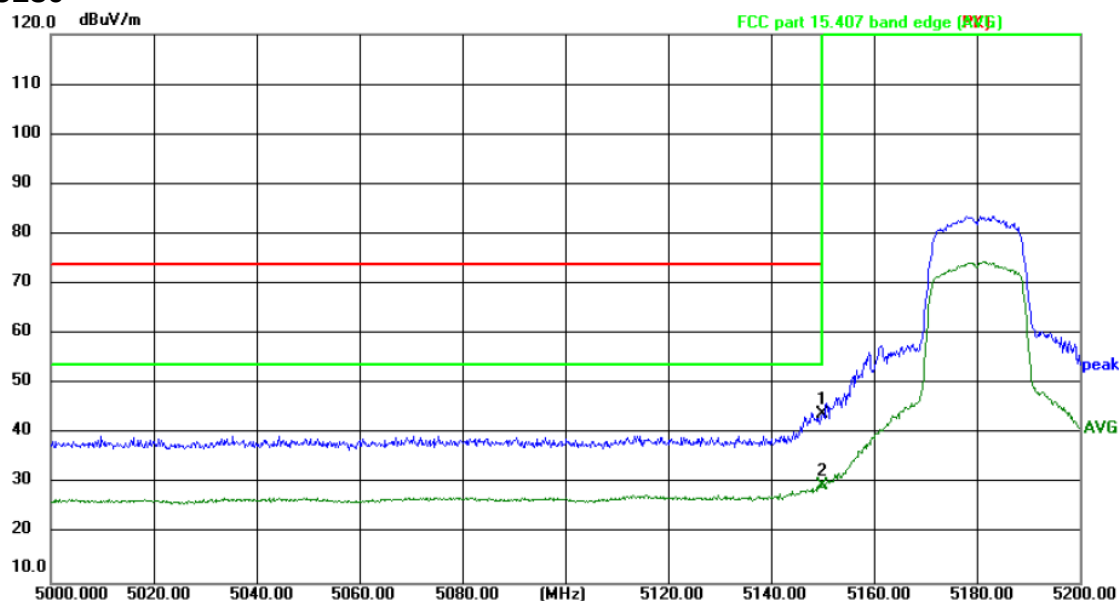
	Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
Test Result:	PASS

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
Spectrum Analyzer	Agilent	N9020A	MY49100619	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	/

5.7.3. Test Data

AC20-5180



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

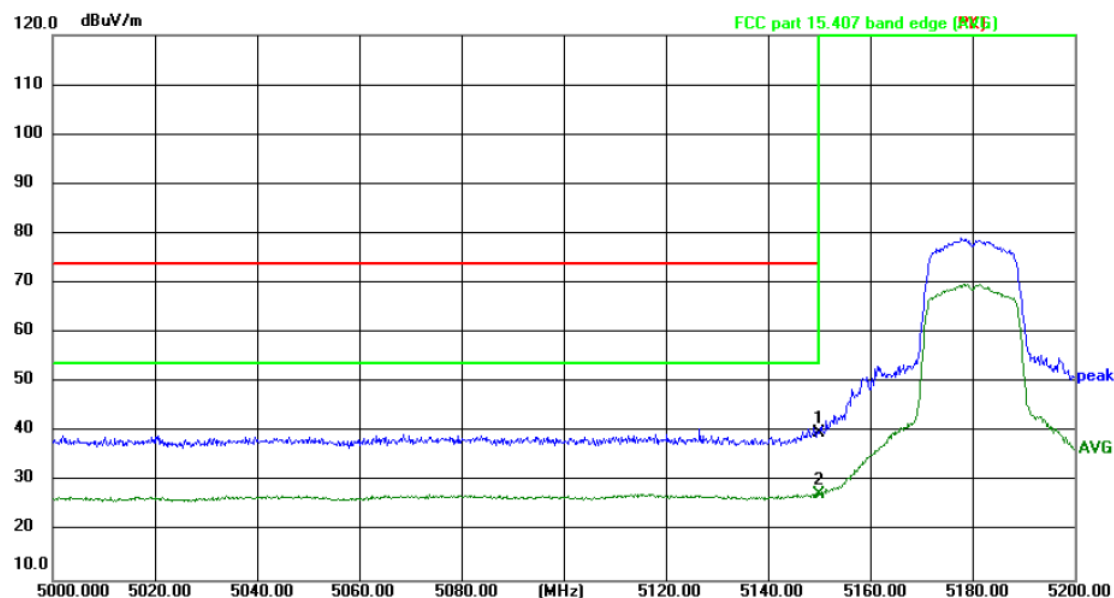
Temperature: 24.6(°C)

Humidity: 57 %

Limit: FCC part 15.407 band edge (PK)

Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	52.67	-8.59	44.08	74.00	-29.92	peak	P	
2 *	5150.000	38.17	-8.59	29.58	54.00	-24.42	AVG	P	



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 24.6(°C)

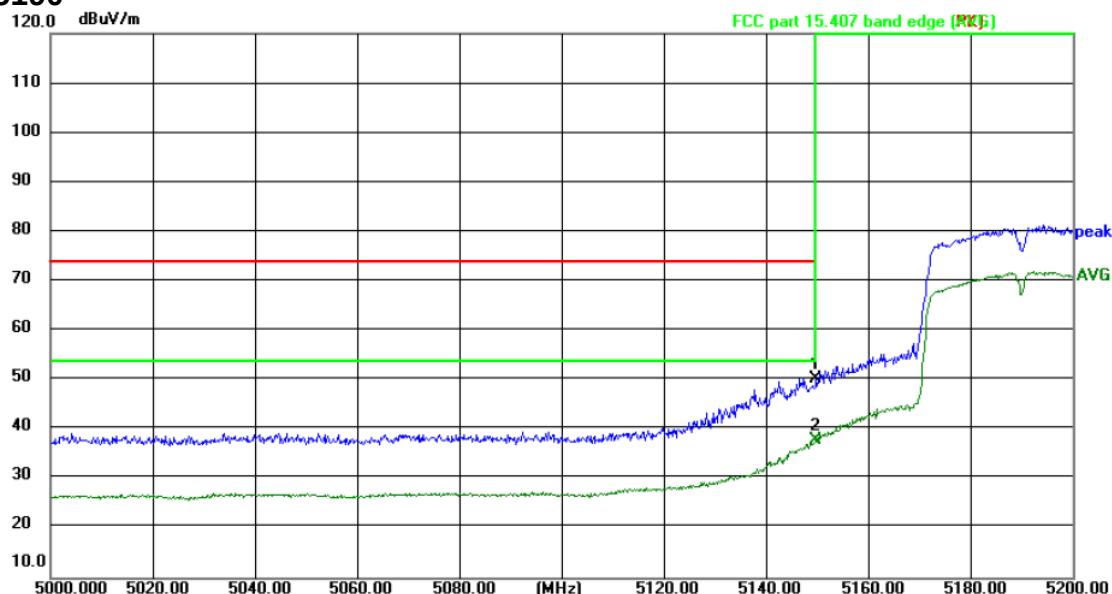
Humidity: 57 %

Limit: FCC part 15.407 band edge (PK)

Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	48.32	-8.59	39.73	74.00	-34.27	peak	P	
2 *	5150.000	36.07	-8.59	27.48	54.00	-26.52	AVG	P	

AC40-5190

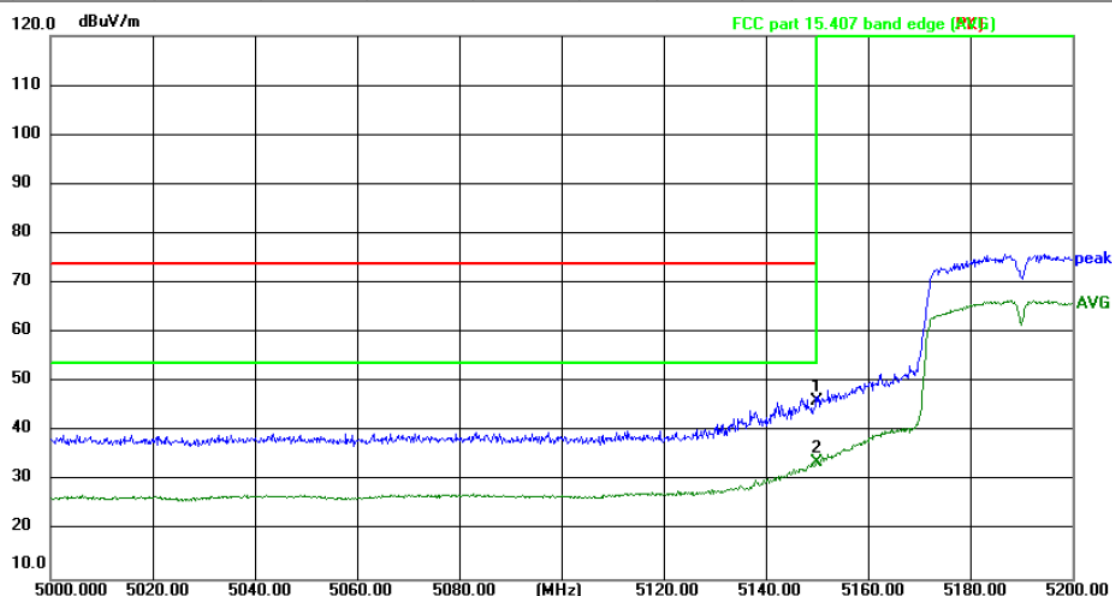


Site: 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 24.6(°C) Humidity: 57 %

Limit: FCC part 15.407 band edge (PK)

Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	58.99	-8.59	50.40	74.00	-23.60	peak	P	
2 *	5150.000	46.61	-8.59	38.02	54.00	-15.98	AVG	P	



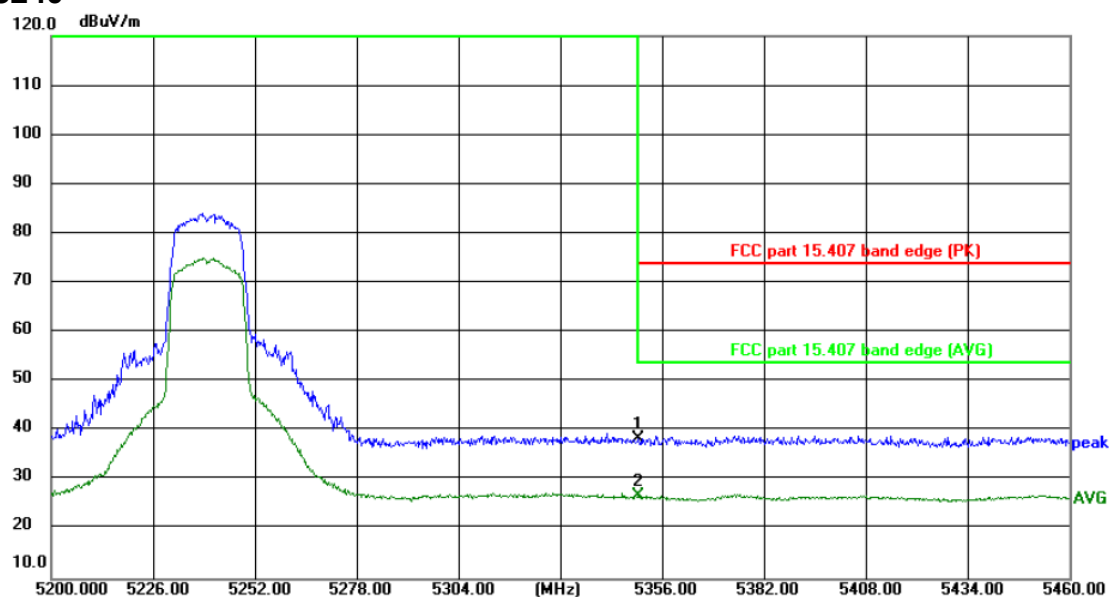
Site: 3m Anechoic Chamber Polarization: **Vertical** Temperature: 24.6(°C) Humidity: 57 %

Limit: FCC part 15.407 band edge (PK)

Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	54.80	-8.59	46.21	74.00	-27.79	peak	P	
2 *	5150.000	42.28	-8.59	33.69	54.00	-20.31	AVG	P	

AC20-5240

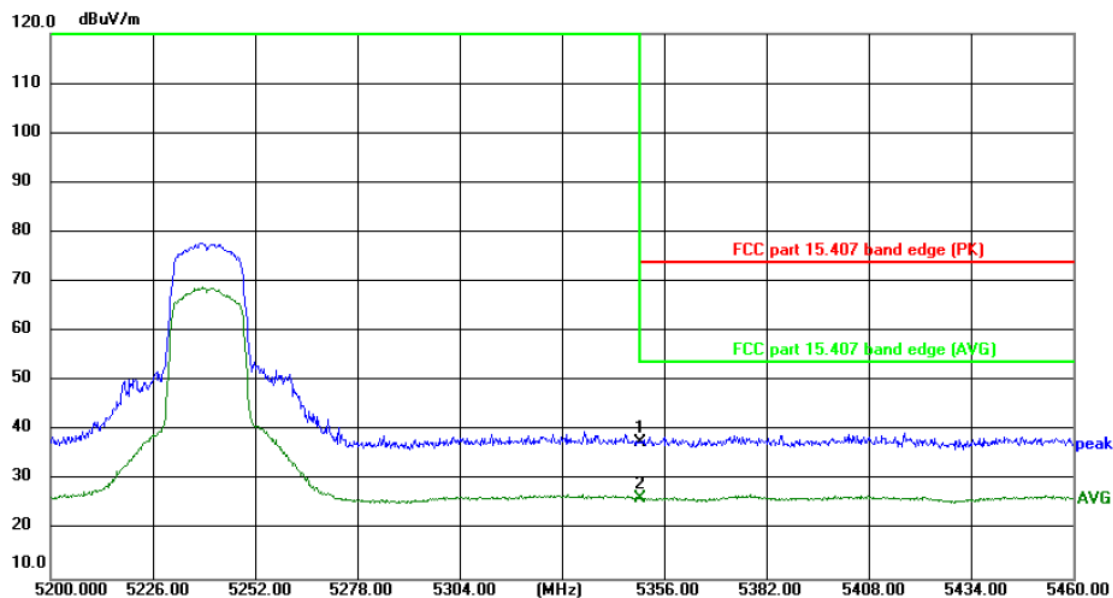


Site: 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 24.6(°C) Humidity: 57 %

Limit: FCC part 15.407 band edge (PK)

Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	46.50	-7.95	38.55	74.00	-35.45	peak	P	
2 *	5350.000	34.83	-7.95	26.88	54.00	-27.12	AVG	P	



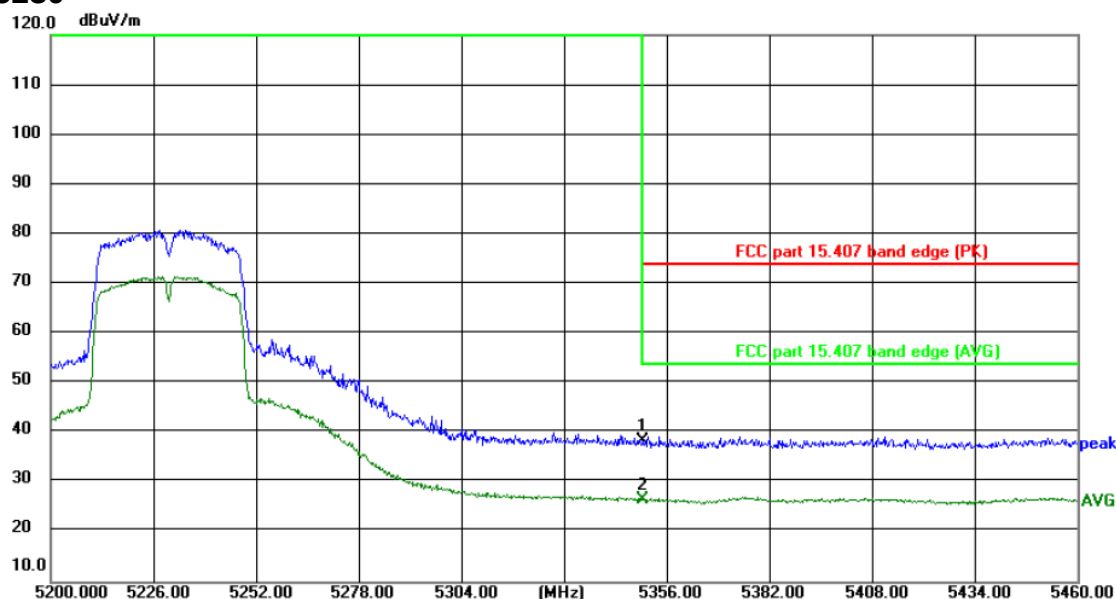
Site: 3m Anechoic Chamber Polarization: **Vertical** Temperature: 24.6(°C) Humidity: 57 %

Limit: FCC part 15.407 band edge (PK)

Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	45.68	-7.95	37.73	74.00	-36.27	peak	P	
2 *	5350.000	34.31	-7.95	26.36	54.00	-27.64	AVG	P	

AC40-5230

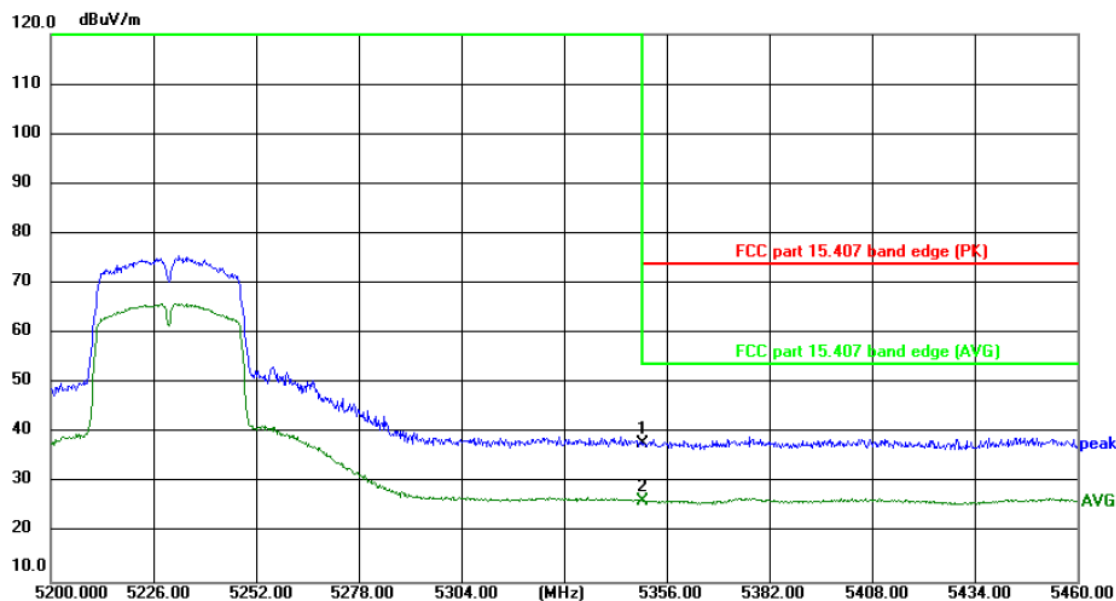


Site: 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 24.6(°C) Humidity: 57 %

Limit: FCC part 15.407 band edge (PK)

Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	46.33	-7.95	38.38	74.00	-35.62	peak	P	
2 *	5350.000	34.49	-7.95	26.54	54.00	-27.46	AVG	P	



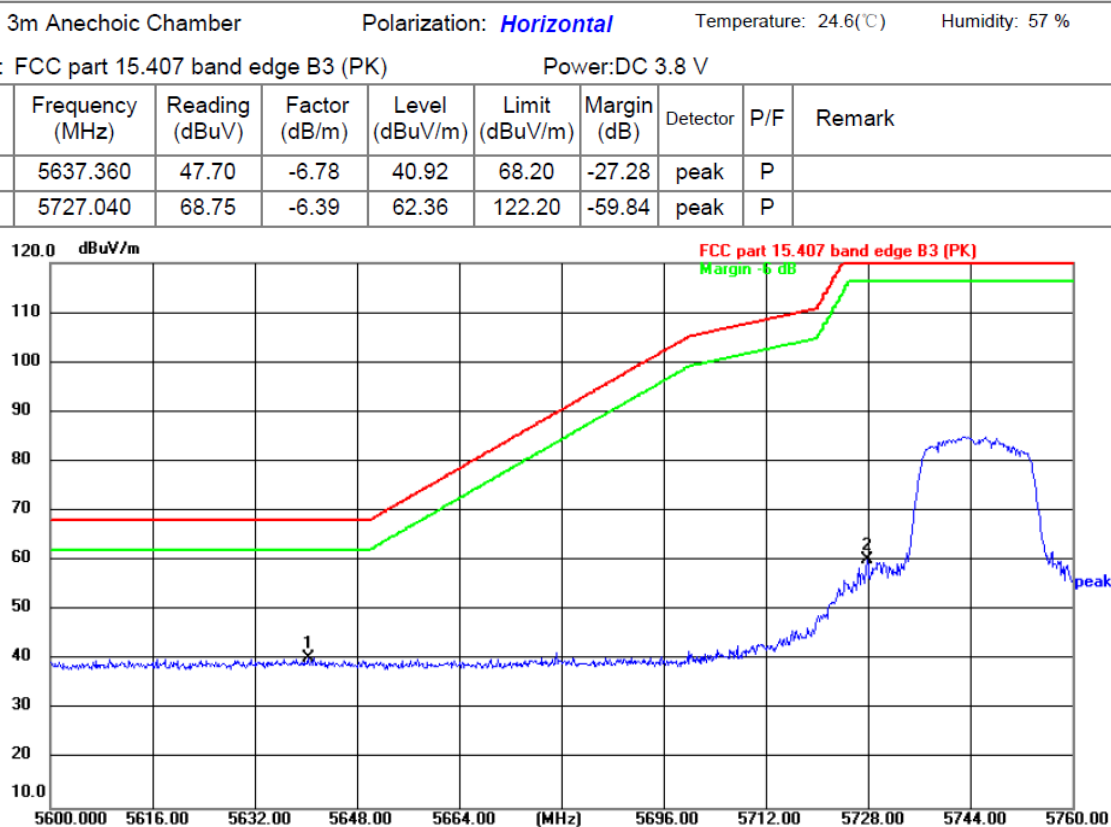
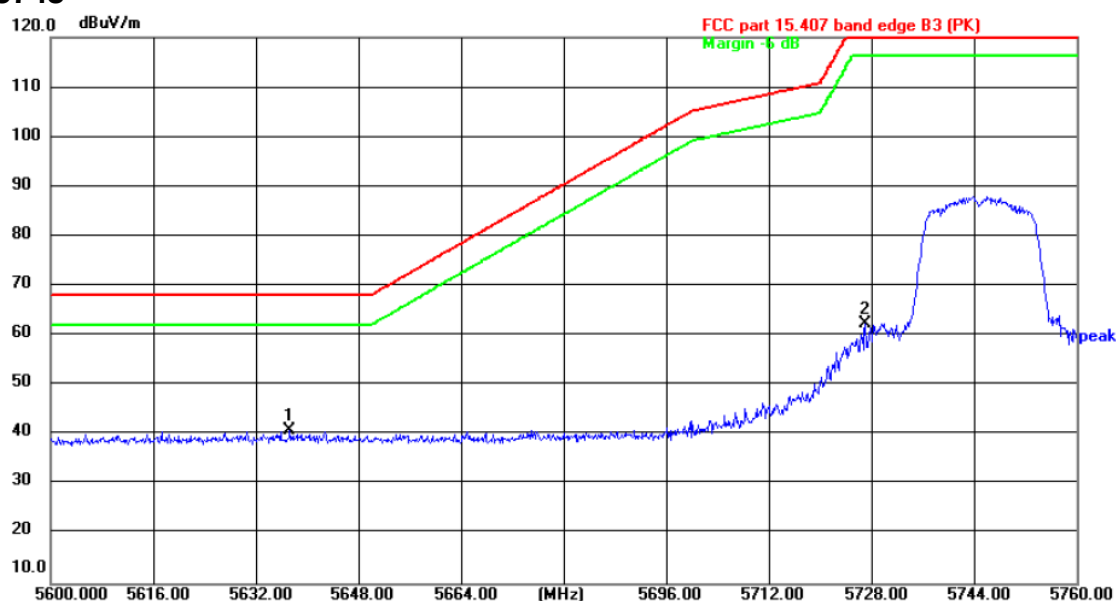
Site: 3m Anechoic Chamber Polarization: **Vertical** Temperature: 24.6(°C) Humidity: 57 %

Limit: FCC part 15.407 band edge (PK)

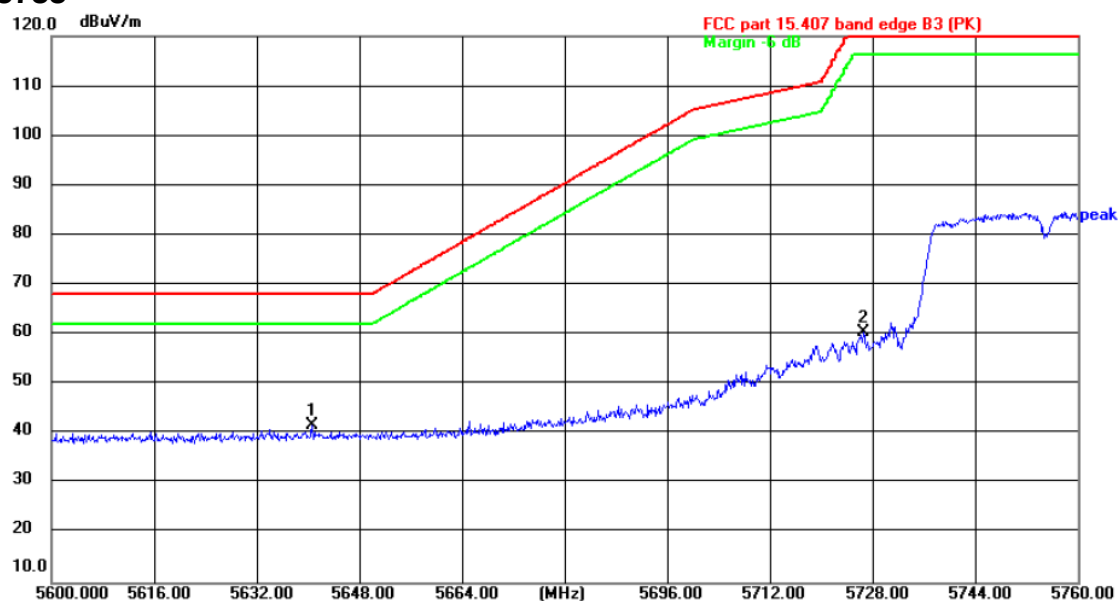
Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	45.83	-7.95	37.88	74.00	-36.12	peak	P	
2 *	5350.000	34.28	-7.95	26.33	54.00	-27.67	AVG	P	

AC20-5745



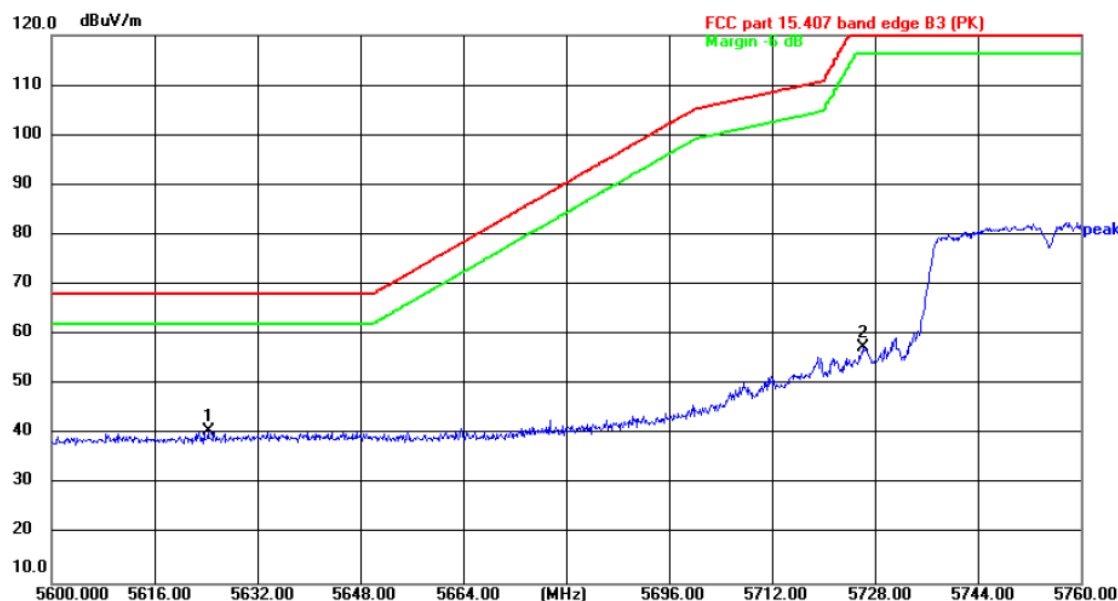
AC40-5755



Site: 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 24.6(°C) Humidity: 57 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5640.720	48.46	-6.78	41.68	68.20	-26.52	peak	P	
2	5726.560	66.84	-6.40	60.44	122.20	-61.76	peak	P	

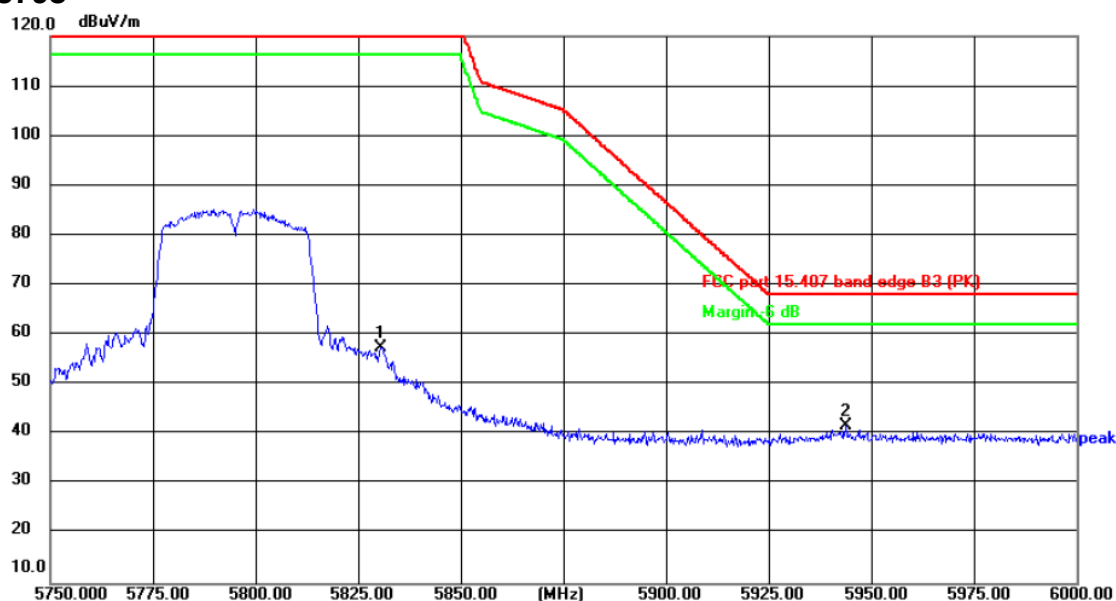


Site: 3m Anechoic Chamber Polarization: **Vertical** Temperature: 24.6(°C) Humidity: 57 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5624.400	47.40	-6.82	40.58	68.20	-27.62	peak	P	
2	5726.320	63.94	-6.40	57.54	122.20	-64.66	peak	P	

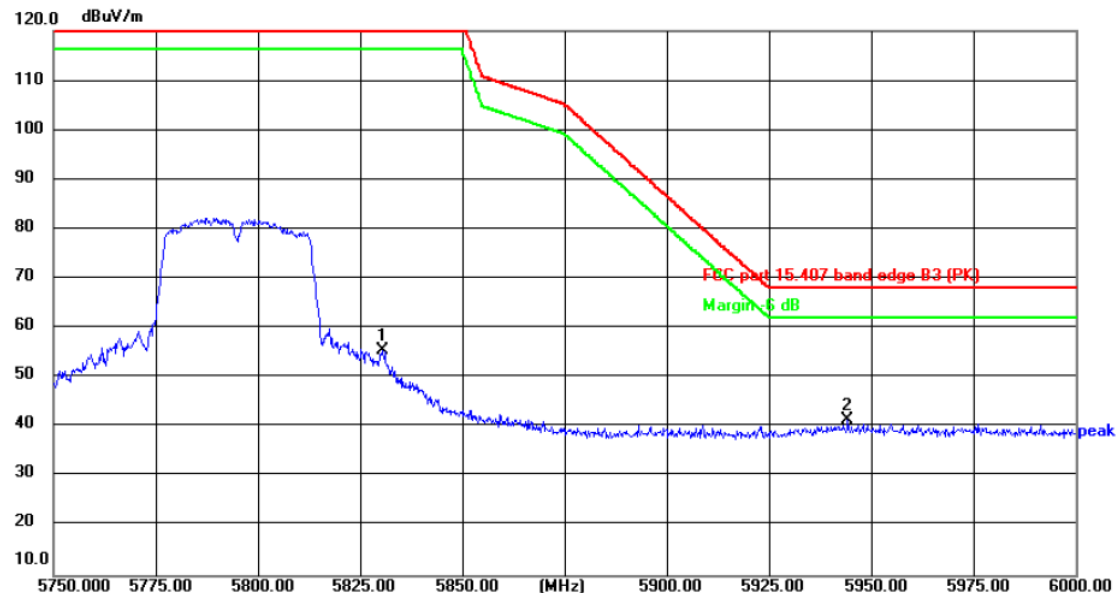
AC40-5795



Site: 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 24.6(°C) Humidity: 57 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5830.500	63.42	-6.00	57.42	122.20	-64.78	peak	P	
2 *	5943.750	47.23	-5.57	41.66	68.20	-26.54	peak	P	

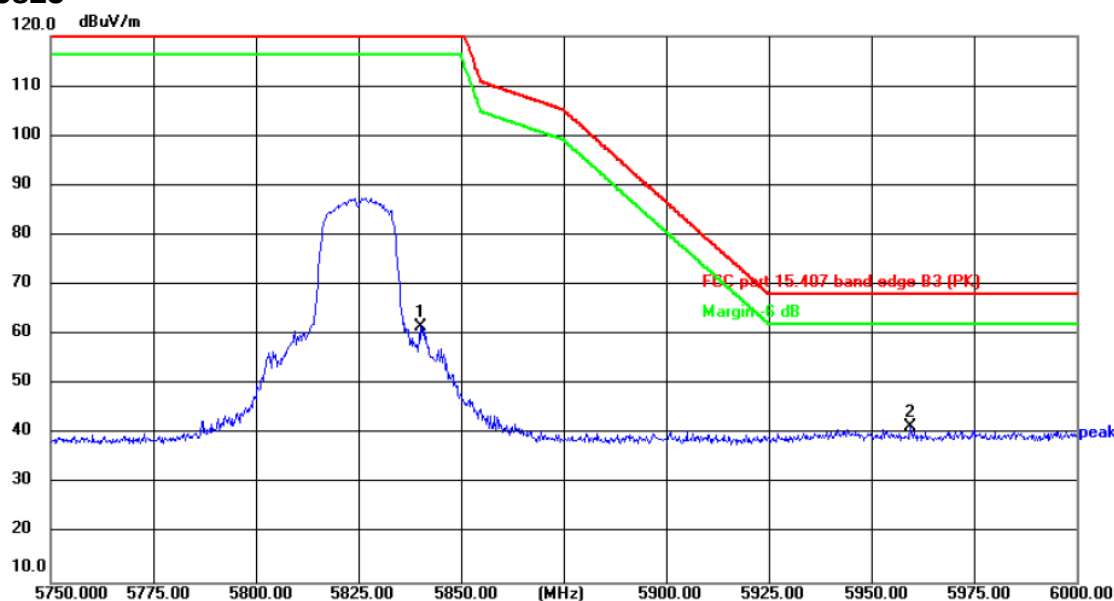


Site: 3m Anechoic Chamber Polarization: **Vertical** Temperature: 24.6(°C) Humidity: 57 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5830.625	61.53	-6.00	55.53	122.20	-66.67	peak	P	
2 *	5944.375	47.08	-5.57	41.51	68.20	-26.69	peak	P	

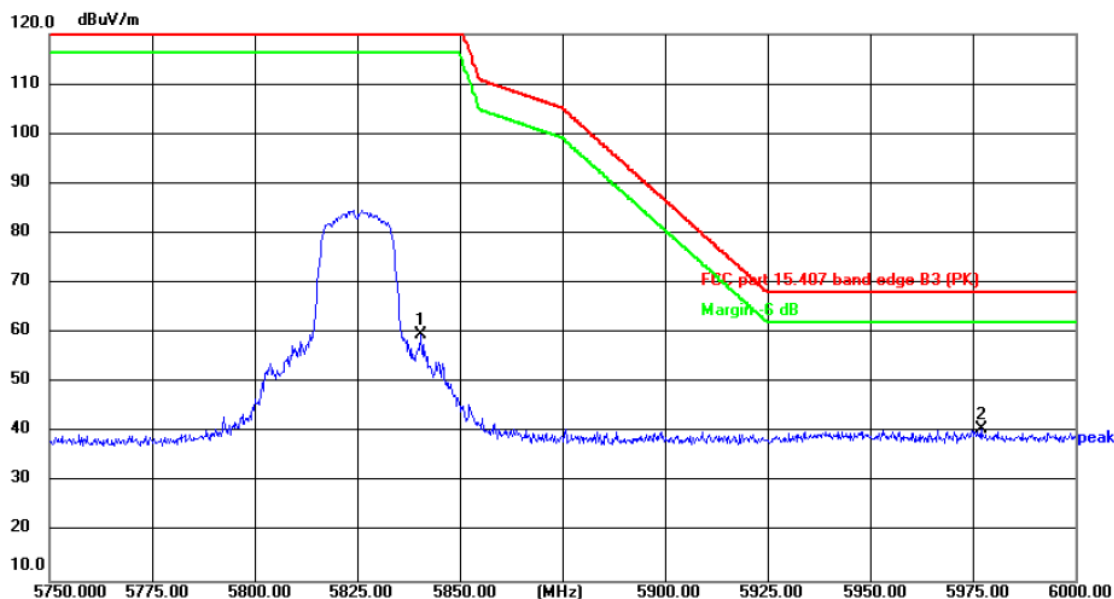
AC20-5825



Site: 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 24.6(°C) Humidity: 57 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5840.000	67.65	-5.96	61.69	122.20	-60.51	peak	P	
2 *	5959.625	46.91	-5.50	41.41	68.20	-26.79	peak	P	



Site: 3m Anechoic Chamber Polarization: **Vertical** Temperature: 24.6(°C) Humidity: 57 %

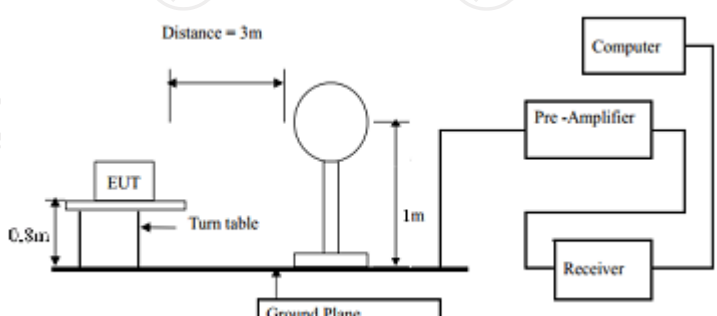
Limit: FCC part 15.407 band edge B3 (PK) Power:DC 3.8 V

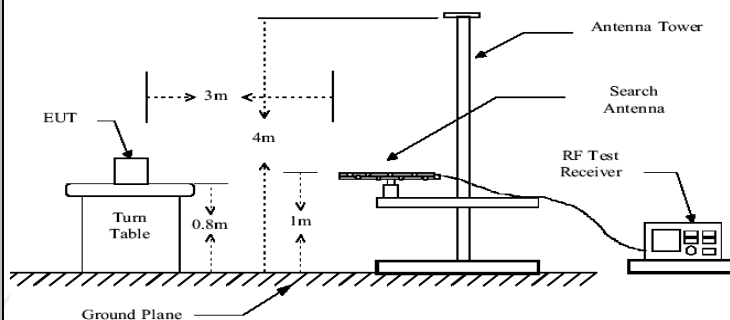
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5840.500	65.64	-5.96	59.68	122.20	-62.52	peak	P	
2 *	5977.000	46.17	-5.42	40.75	68.20	-27.45	peak	P	

Note: All modulation (802.11a, 802.11n, 802.11ac) have been tested, only the worst case in 802.11ac be reported.

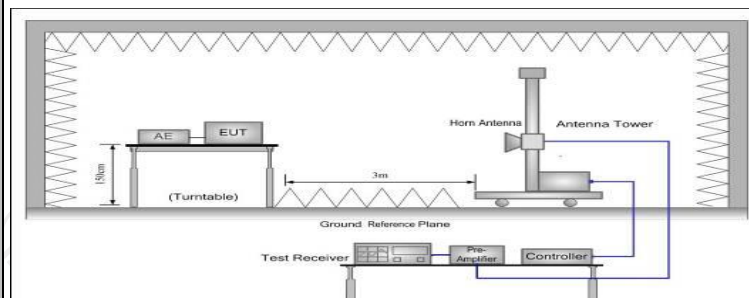
5.8. Unwanted Emissions

5.8.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205				
Test Method:	KDB 789033 D02 v02r01				
Frequency Range:	9kHz to 40GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Operation mode:	Transmitting mode with modulation				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Peak		1MHz	10Hz	Average Value	
Limit:	Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table, In restricted bands:				
	Frequency		Detector		Limit@3m
	Above 1G		Peak		74dB μ V/m
			AVG		54dB μ V/m
	Frequency		Field Strength (microvolts/meter)	Measurement Distance (meters)	
	0.009-0.490		2400/F(KHz)	300	
	0.49 -1.705		24000/F(KHz)	3	
	1.705-30		30	30	
	30-88		100	3	
	88-216		150	3	
216-960		200	3		
Above 960		500	3		
Test setup:	In un-restricted bands: 68.2dB μ V/m				
	For radiated emissions below 30MHz				
Test setup:					
	30MHz to 1GHz				



Above 1GHz



Test Procedure:

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotating table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Test results:

PASS

5.8.2. 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
Spectrum Analyzer	Agilent	N9020A	MY49100619	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	/

5.8.3. Test Data

Please refer to following diagram for individual
Below 1GHz

Horizontal:



Site: 3m Anechoic Chamber1

Polarization: **Horizontal**

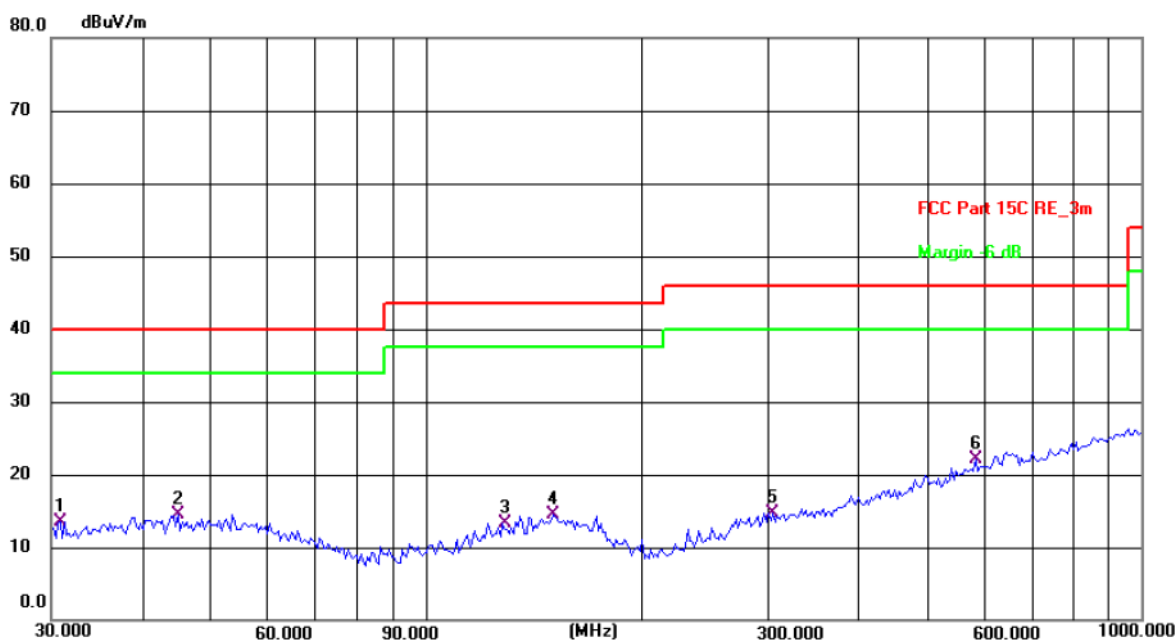
Temperature: 22.8(C) Humidity: 50 %

Limit: FCC Part 15C RE_3m

Power: DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	51.4807	27.52	-12.41	15.11	40.00	-24.89	QP	P	
2	70.0903	26.95	-14.24	12.71	40.00	-27.29	QP	P	
3	131.7577	26.81	-12.53	14.28	43.50	-29.22	QP	P	
4	158.1123	26.67	-11.29	15.38	43.50	-28.12	QP	P	
5	374.6225	25.74	-9.65	16.09	46.00	-29.91	QP	P	
6 *	699.3046	27.59	-4.29	23.30	46.00	-22.70	QP	P	

Vertical:



Site: 3m Anechoic Chamber1 Polarization: **Vertical** Temperature: 22.8(C) Humidity: 50 %

Limit: FCC Part 15C RE_3m

Power: DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	30.8534	26.58	-13.00	13.58	40.00	-26.42	QP	P	
2	45.0583	26.63	-12.20	14.43	40.00	-25.57	QP	P	
3	128.1129	25.98	-12.65	13.33	43.50	-30.17	QP	P	
4	150.5377	25.76	-11.27	14.49	43.50	-29.01	QP	P	
5	305.6800	25.41	-10.69	14.72	46.00	-31.28	QP	P	
6 *	586.8436	27.60	-5.56	22.04	46.00	-23.96	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. Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40) and the worst case Mode (Lowest channel and 802.11a) was submitted only.

3. Measurement (dBμV) = Reading level + Correction Factor, correction Factor= Antenna Factor + Cable loss – Pre-amplifier.

Modulation Type: Band 1									
11a CH36: 5180MHz									
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)			
10360	H	38.13	---	1.78	39.91	---	68.2	---	-28.29
15540	H	39.24	---	5.21	44.45	---	74	54	-9.55
---	H	---	---	---	---	---	---	---	---
10360	V	38.68	---	1.78	40.46	---	68.2	---	-27.74
15540	V	40.92	---	5.21	46.13	---	74	54	-7.87
---	V	---	---	---	---	---	---	---	---
11a CH40: 5200MHz									
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)			
10400	H	39.59	---	1.83	41.42	---	68.2	---	-26.78
15600	H	40.02	---	5.23	45.25	---	74	54	-8.75
---	H	---	---	---	---	---	---	---	---
10400	V	40.34	---	1.83	42.17	---	68.2	---	-26.03
15600	V	41.61	---	5.23	46.84	---	74	54	-7.16
---	V	---	---	---	---	---	---	---	---
11a CH48: 5240MHz									
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)			
10480	H	38.15	---	1.85	40	---	68.2	---	-28.2
15720	H	39.69	---	5.25	44.94	---	74	54	-9.06
---	H	---	---	---	---	---	---	---	---
10480	V	38.16	---	1.85	40.01	---	68.2	---	-28.19
15720	V	40.53	---	5.25	45.78	---	74	54	-8.22
---	V	---	---	---	---	---	---	---	---
11n(HT20) CH36: 5180MHz									
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)			
10360	H	41.72	---	1.78	43.5	---	68.2	---	-24.7
15540	H	40.23	---	5.21	45.44	---	74	54	-8.56
---	H	---	---	---	---	---	---	---	---
10360	V	42.07	---	1.78	43.85	---	68.2	---	-24.35
15540	V	41.41	---	5.21	46.62	---	74	54	-7.38
---	V	---	---	---	---	---	---	---	---

11n(HT20) CH40: 5200MHz									
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)			
10400	H	40.19	---	1.83	42.02	---	68.2	---	-26.18
15600	H	41.24	---	5.23	46.47	---	74	54	-7.53
---	H	---	---	---	---	---	---	---	---
10400	V	40.02	---	1.83	41.85	---	68.2	---	-26.35
15600	V	39.75	---	5.23	44.98	---	74	54	-9.02
---	V	---	---	---	---	---	---	---	---
11n(HT20) CH48: 5240MHz									
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)			
10480	H	41.95	---	1.85	43.8	---	68.2	---	-24.4
15720	H	41.44	---	5.25	46.69	---	74	54	-7.31
---	H	---	---	---	---	---	---	---	---
10480	V	40.16	---	1.85	42.01	---	68.2	---	-26.19
15720	V	40.29	---	5.25	45.54	---	74	54	-8.46
---	V	---	---	---	---	---	---	---	---
11n(HT40) CH38: 5190MHz									
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)			
10380	H	42.03	---	1.80	43.83	---	68.2	---	-24.37
15570	H	41.82	---	5.22	47.04	---	74	54	-6.96
---	H	---	---	---	---	---	---	---	---
10380	V	40.87	---	1.80	42.67	---	68.2	---	-25.53
15570	V	39.58	---	5.22	44.8	---	74	54	-9.2
---	V	---	---	---	---	---	---	---	---
11n(HT40) CH46: 5230MHz									
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)			
10460	H	41.69	---	1.85	43.54	---	68.2	---	-24.66
15690	H	39.46	---	5.08	44.54	---	74	54	-9.46
---	H	---	---	---	---	---	---	---	---
10460	V	41.44	---	1.85	43.29	---	68.2	---	-24.91
15690	V	40.31	---	5.08	45.39	---	74	54	-8.61
---	V	---	---	---	---	---	---	---	---

11ac(VHT20) CH36: 5180MHz									
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)			
10360	H	40.52	---	1.78	42.3	---	68.2	---	-25.9
15540	H	39.4	---	5.21	44.61	---	74	54	-9.39
---	H	---	---	---	---	---	---	---	---
10360	V	38.99	---	1.78	40.77	---	68.2	---	-27.43
15540	V	39.66	---	5.21	44.87	---	74	54	-9.13
---	V	---	---	---	---	---	---	---	---
11ac(VHT20) CH40: 5200MHz									
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)			
10400	H	40.53	---	1.83	42.36	---	68.2	---	-25.84
15600	H	40.14	---	5.23	45.37	---	74	54	-8.63
---	H	---	---	---	---	---	---	---	---
10400	V	39.61	---	1.83	41.44	---	68.2	---	-26.76
15600	V	39.46	---	5.23	44.69	---	74	54	-9.31
---	V	---	---	---	---	---	---	---	---
11ac(VHT20) CH48:5240									
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)			
10480	H	37.45	---	1.85	39.3	---	68.2	---	-28.9
15720	H	38.98	---	5.25	44.23	---	74	54	-9.77
---	H	---	---	---	---	---	---	---	---
10480	V	38.27	---	1.85	40.12	---	68.2	---	-28.08
15720	V	39.46	---	5.25	44.71	---	74	54	-9.29
---	V	---	---	---	---	---	---	---	---
11ac(VHT40) CH38:5190									
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)			
10380	H	40.2	---	1.80	42	---	68.2	---	-26.2
15570	H	39.71	---	5.22	44.93	---	74	54	-9.07
---	H	---	---	---	---	---	---	---	---
10380	V	38.34	---	1.80	40.14	---	68.2	---	-28.06
15570	V	39.57	---	5.22	44.79	---	74	54	-9.21
---	V	---	---	---	---	---	---	---	---

11ac(VHT40) CH46:5230									
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)			
10460	H	38.63	---	1.85	40.48	---	68.2	---	-27.72
15690	H	39.52	---	5.08	44.6	---	74	54	-9.4
---	H	---	---	---	---	---	---	---	---
10460	V	39.45	---	1.85	41.3	---	68.2	---	-26.9
15690	V	40.36	---	5.08	45.44	---	74	54	-8.56
---	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. The highest test frequency is 40GHz.
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.

Modulation Type: Band 3									
11a CH149: 5745MHz									
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)			
11490	H	44.26	---	2.48	46.74	---	74	54	-7.26
17235	H	37.24	---	6.50	43.74	---	68.2	---	-24.46
---	H	---	---	---	---	---	---	---	---
11490	V	45.91	---	2.48	48.39	---	74	54	-5.61
17235	V	38.89	---	6.50	45.39	---	68.2	---	-22.81
---	V	---	---	---	---	---	---	---	---
11a CH157: 5785MHz									
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)			
11570	H	43.32	---	2.42	45.74	---	74	54	-8.26
17355	H	38.63	---	7.03	45.66	---	68.2	---	-22.54
---	H	---	---	---	---	---	---	---	---
11570	V	43.58	---	2.42	46	---	74	54	-8
17355	V	39.37	---	7.03	46.4	---	68.2	---	-21.8
---	V	---	---	---	---	---	---	---	---
11a CH165: 5825MHz									
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)			
11650	H	43.76	---	2.41	46.17	---	74	54	-7.83
17475	H	36.04	---	7.41	43.45	---	68.2	---	-24.75
---	H	---	---	---	---	---	---	---	---
11650	V	43.22	---	2.41	45.63	---	74	54	-8.37
17475	V	38.57	---	7.41	45.98	---	68.2	---	-22.22
---	V	---	---	---	---	---	---	---	---
11n(HT20) CH149: 5745MHz									
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)			
11490	H	44.26	---	2.48	46.74	---	74	54	-7.26
17235	H	38.39	---	6.50	44.89	---	68.2	---	-23.31
---	H	---	---	---	---	---	---	---	---
11490	V	44.72	---	2.48	47.2	---	74	54	-6.8
17235	V	37.44	---	6.50	43.94	---	68.2	---	-24.26
---	V	---	---	---	---	---	---	---	---

11n(HT20) CH157: 5785MHz									
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)			
11570	H	44.32	---	2.42	46.74	---	74	54	-7.26
17355	H	39.91	---	7.03	46.94	---	68.2	---	-21.26
---	H	---	---	---	---	---	---	---	---
11570	V	44.34	---	2.42	46.76	---	74	54	-7.24
17355	V	39.15	---	7.03	46.18	---	68.2	---	-22.02
---	V	---	---	---	---	---	---	---	---
11n(HT20) CH165: 5825MHz									
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)			
11650	H	45.38	---	2.41	47.79	---	74	54	-6.21
17475	H	37.29	---	7.41	44.7	---	68.2	---	-23.5
---	H	---	---	---	---	---	---	---	---
11650	V	45.7	---	2.41	48.11	---	74	54	-5.89
17475	V	40.65	---	7.41	48.06	---	68.2	---	-20.14
---	V	---	---	---	---	---	---	---	---
11n(HT40) CH151: 5755MHz									
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)			
11510	H	44.23	---	2.47	46.7	---	74	54	-7.3
17265	H	37.4	---	6.62	44.02	---	68.2	---	-24.18
---	H	---	---	---	---	---	---	---	---
11510	V	44.77	---	2.47	47.24	---	74	54	-6.76
17265	V	38.09	---	6.62	44.71	---	68.2	---	-23.49
---	V	---	---	---	---	---	---	---	---
11n(HT40) CH159: 5795MHz									
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)			
11590	H	44.42	---	2.40	46.82	---	74	54	-7.18
17385	H	38.81	---	7.15	45.96	---	68.2	---	-22.24
---	H	---	---	---	---	---	---	---	---
11590	V	44.08	---	2.40	46.48	---	74	54	-7.52
17385	V	37.76	---	7.15	44.91	---	68.2	---	-23.29
---	V	---	---	---	---	---	---	---	---

11ac(VHT20) CH149: 5745MHz									
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)			
11490	H	44.76	---	2.48	47.24	---	74	54	-6.76
17235	H	37.34	---	6.50	43.84	---	68.2	---	-24.36
---	H	---	---	---	---	---	---	---	---
11490	V	44.81	---	2.48	47.29	---	74	54	-6.71
17235	V	38.18	---	6.50	44.68	---	68.2	---	-23.52
---	V	---	---	---	---	---	---	---	---
11ac(VHT20) CH157: 5785MHz									
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)			
11570	H	43.83	---	2.42	46.25	---	74	54	-7.75
17355	H	36.56	---	7.03	43.59	---	68.2	---	-24.61
---	H	---	---	---	---	---	---	---	---
11570	V	43.42	---	2.42	45.84	---	74	54	-8.16
17355	V	38.91	---	7.03	45.94	---	68.2	---	-22.26
---	V	---	---	---	---	---	---	---	---
11ac(VHT20) CH165: 5825MHz									
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)			
11650	H	44.98	---	2.41	47.39	---	74	54	-6.61
17475	H	38.89	---	7.41	46.3	---	68.2	---	-21.9
---	H	---	---	---	---	---	---	---	---
11650	V	44.74	---	2.41	47.15	---	74	54	-6.85
17475	V	40.21	---	7.41	47.62	---	68.2	---	-20.58
---	V	---	---	---	---	---	---	---	---
11ac(VHT40) CH151: 5755MHz									
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)			
11510	H	44.76	---	2.47	47.23	---	74	54	-6.77
17265	H	37.64	---	6.62	44.26	---	68.2	---	-23.94
---	H	---	---	---	---	---	---	---	---
11510	V	43.91	---	2.47	46.38	---	74	54	-7.62
17265	V	36.12	---	6.62	42.74	---	68.2	---	-25.46
---	V	---	---	---	---	---	---	---	---

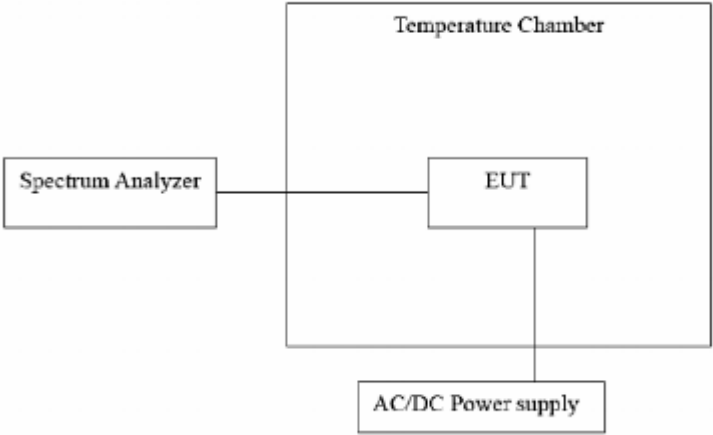
11ac(VHT40) CH159: 5795MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11590	H	43.82	---	2.40	46.22	---	74	54	-7.78
17385	H	37.13	---	7.15	44.28	---	68.2	---	-23.92
---	H	---	---	---	---	---	---	---	---
11590	V	42.47	---	2.40	44.87	---	74	54	-9.13
17385	V	38.94	---	7.15	46.09	---	68.2	---	-22.11
---	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. The highest test frequency is 40GHz.
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.

5.9. Frequency Stability Measurement

5.9.1. Test Specification

Test Requirement:	FCC Part15 Section 15.407(g) &Part2 J Section 2.1055
Test Method:	ANSI C63.10: 2020
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Setup:	 <pre> graph LR SA[Spectrum Analyzer] --- EUT[EUT] subgraph TC [Temperature Chamber] EUT end P[AC/DC Power supply] --- EUT </pre>
Test Procedure:	The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Test Result:	PASS
Remark:	Pre-scan was performed at all models(11a,11n,11ac), the worst case (11ac) was found and test data was shown in this report.

Test plots as follows:

Test mode:		802.11ac(VHT20)	Frequency(MHz):	5180
Temperature (°C)	Voltage(V _{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5180	0	PASS
35		5180	0	PASS
25		5179.98	-20000	PASS
15		5180	0	PASS
5		5180	0	PASS
0		5180	0	PASS
25	3.23V	5180	0	PASS
	3.8V	5180	0	PASS
	4.37V	5179.98	-20000	PASS

Test mode:		802.11ac(VHT20)	Frequency(MHz):	5200
Temperature (°C)	Voltage(V _{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5200	0	PASS
35		5200	0	PASS
25		5200	0	PASS
15		5200	0	PASS
5		5200	0	PASS
0		5200	0	PASS
25	3.23V	5200	0	PASS
	3.8V	5200	0	PASS
	4.37V	5200	0	PASS

Test mode:		802.11ac(VHT20)	Frequency(MHz):	5240
Temperature (°C)	Voltage(V _{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5240	0	PASS
35		5240	0	PASS
25		5240	0	PASS
15		5240	0	PASS
5		5240	0	PASS
0		5240	0	PASS
25	3.23V	5240	0	PASS
	3.8V	5240	0	PASS
	4.37V	5240	0	PASS

Test mode:		802.11ac(VHT20)	Frequency(MHz):	5745
Temperature (°C)	Voltage(V _{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5745	0	PASS
35		5745	0	PASS
25		5745	0	PASS
15		5745	0	PASS
5		5745.02	20000	PASS
0		5745	0	PASS
25	3.23V	5745	0	PASS
	3.8V	5745	0	PASS
	4.37V	5745	0	PASS

Test mode:		802.11ac(VHT20)	Frequency(MHz):	5785
Temperature (°C)	Voltage(V _{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5785	0	PASS
35		5785	0	PASS
25		5785	0	PASS
15		5785	0	PASS
5		5785	0	PASS
0		5785	0	PASS
25	3.23V	5785	0	PASS
	3.8V	5785	0	PASS
	4.37V	5785	0	PASS

Test mode:		802.11ac(VHT20)	Frequency(MHz):	5825
Temperature (°C)	Voltage(V _{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5825	0	PASS
35		5825	0	PASS
25		5825	0	PASS
15		5825	0	PASS
5		5825	0	PASS
0		5825	0	PASS
25	3.23V	5825	0	PASS
	3.8V	5825.02	20000	PASS
	4.37V	5825	0	PASS

Test mode:		802.11ac(VHT40)	Frequency(MHz):	5190
Temperature (°C)	Voltage(V _{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5190	0	PASS
35		5190	0	PASS
25		5190	0	PASS
15		5190	0	PASS
5		5189.96	-40000	PASS
0		5190	0	PASS
25	3.23V	5190	0	PASS
	3.8V	5190	0	PASS
	4.37V	5190	0	PASS

Test mode:		802.11ac(VHT40)	Frequency(MHz):	5230
Temperature (°C)	Voltage(V _{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5230	0	PASS
35		5230	0	PASS
25		5230	0	PASS
15		5230	0	PASS
5		5230	0	PASS
0		5229.96	-40000	PASS
25	3.23V	5230	0	PASS
	3.8V	5230	0	PASS
	4.37V	5230	0	PASS

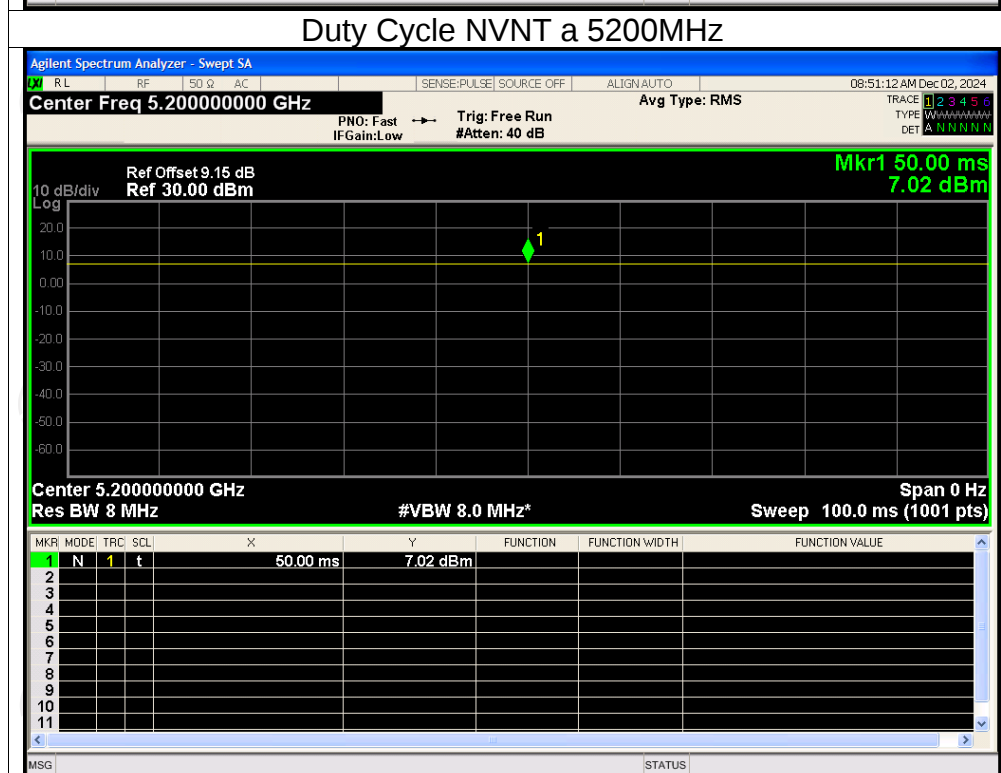
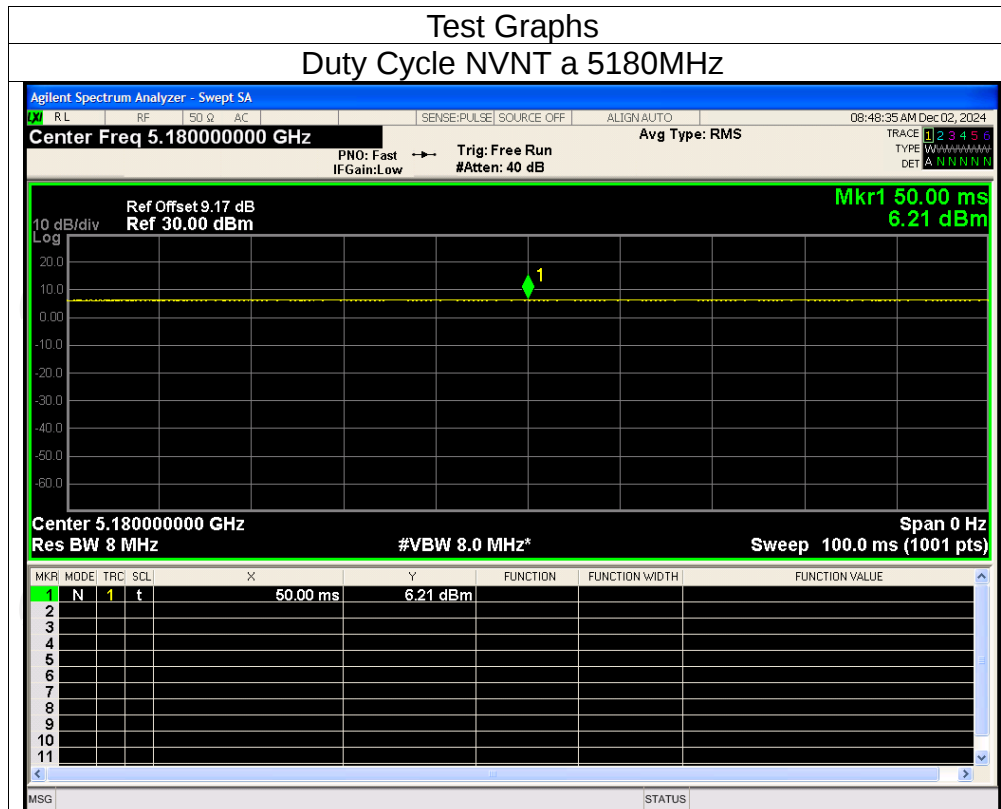
Test mode:		802.11ac(VHT40)	Frequency(MHz):	5755
Temperature (°C)	Voltage(V _{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5755	0	PASS
35		5755	0	PASS
25		5755	0	PASS
15		5755	0	PASS
5		5755	0	PASS
0		5755	0	PASS
25	3.23V	5755	0	PASS
	3.8V	5755	0	PASS
	4.37V	5755	0	PASS

Test mode:		802.11ac(VHT40)	Frequency(MHz):	5795
Temperature (°C)	Voltage(V _{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5795	0	PASS
35		5795	0	PASS
25		5794.96	-40000	PASS
15		5795	0	PASS
5		5794.96	-40000	PASS
0		5795	0	PASS
25	3.23V	5795	0	PASS
	3.8V	5795	0	PASS
	4.37V	5795	0	PASS

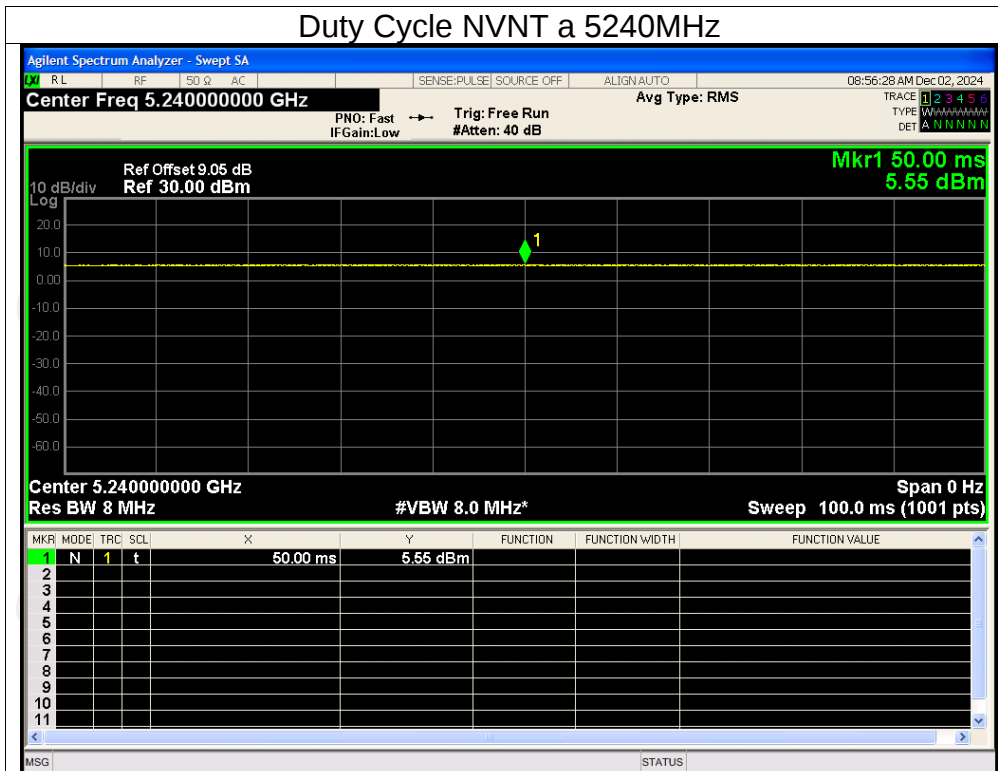
Appendix A: Test Result of Conducted Test

Duty Cycle

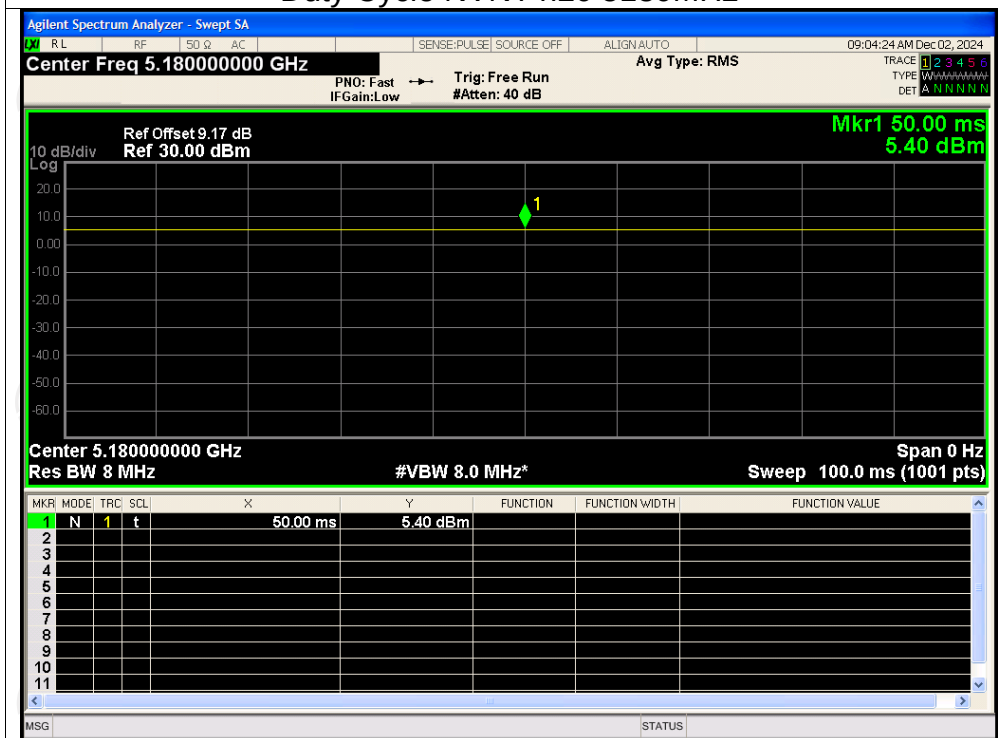
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	100	0
NVNT	a	5200	100	0
NVNT	a	5240	100	0
NVNT	n20	5180	100	0
NVNT	n20	5200	100	0
NVNT	n20	5240	100	0
NVNT	n40	5190	100	0
NVNT	n40	5230	100	0
NVNT	ac20	5180	100	0
NVNT	ac20	5200	100	0
NVNT	ac20	5240	100	0
NVNT	ac40	5190	100	0
NVNT	ac40	5230	100	0
NVNT	a	5745	100	0
NVNT	a	5785	100	0
NVNT	a	5825	100	0
NVNT	n20	5745	100	0
NVNT	n20	5785	100	0
NVNT	n20	5825	100	0
NVNT	n40	5755	100	0
NVNT	n40	5795	100	0
NVNT	ac20	5745	100	0
NVNT	ac20	5785	100	0
NVNT	ac20	5825	100	0
NVNT	ac40	5755	100	0
NVNT	ac40	5795	100	0



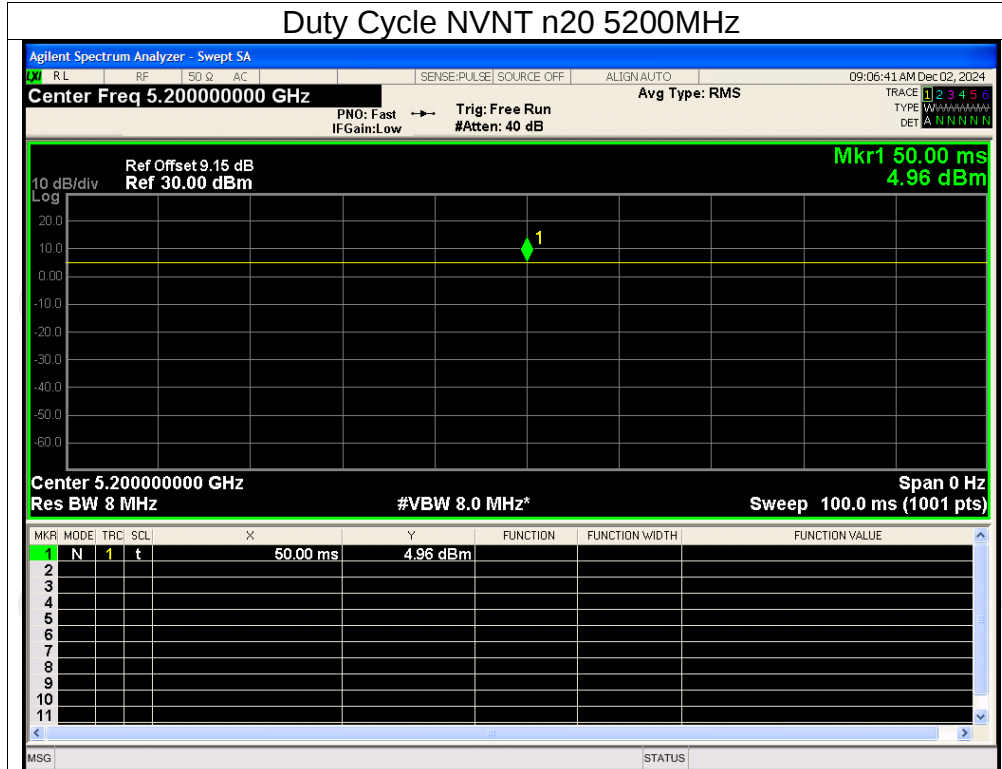
Duty Cycle NVNT a 5240MHz



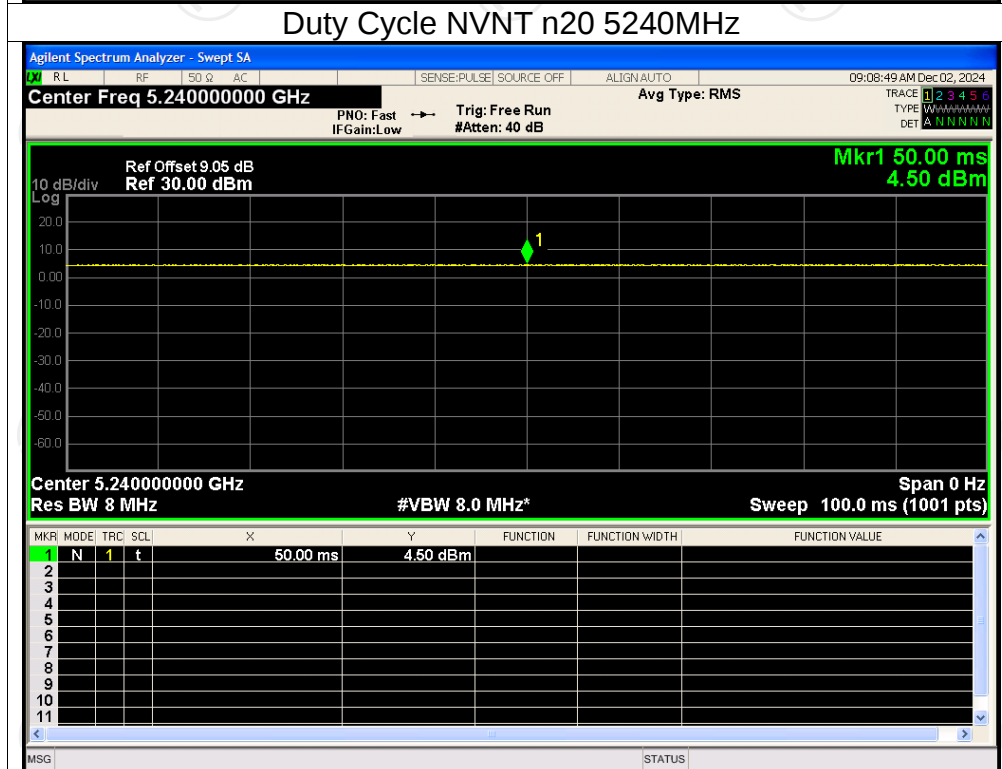
Duty Cycle NVNT n20 5180MHz



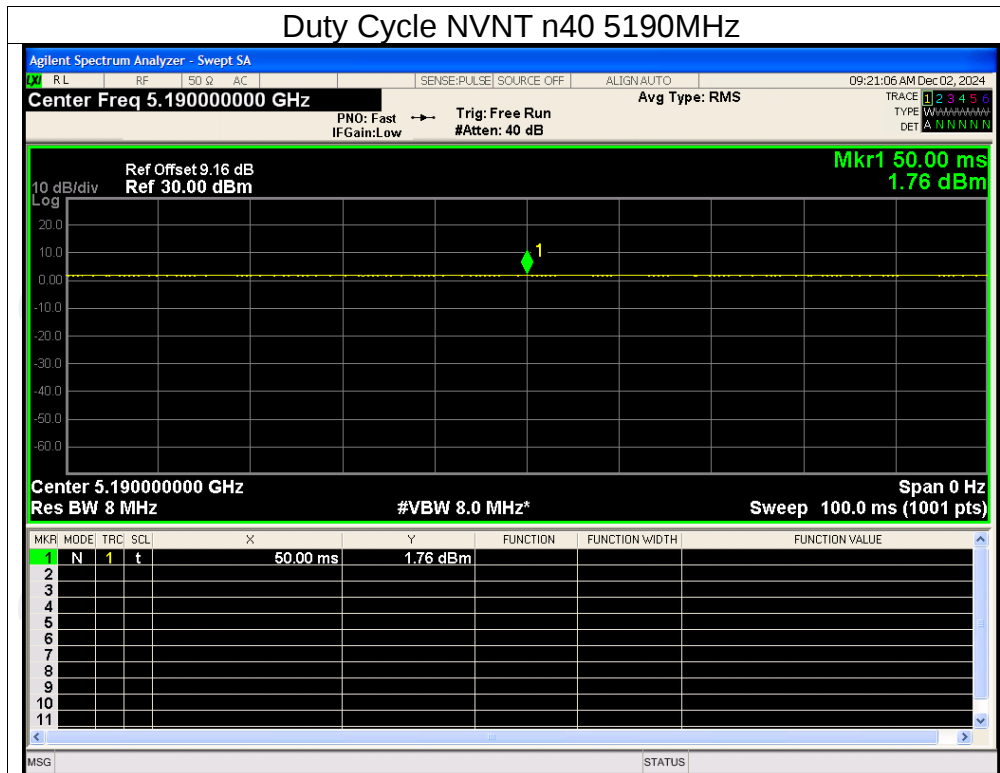
Duty Cycle NVNT n20 5200MHz



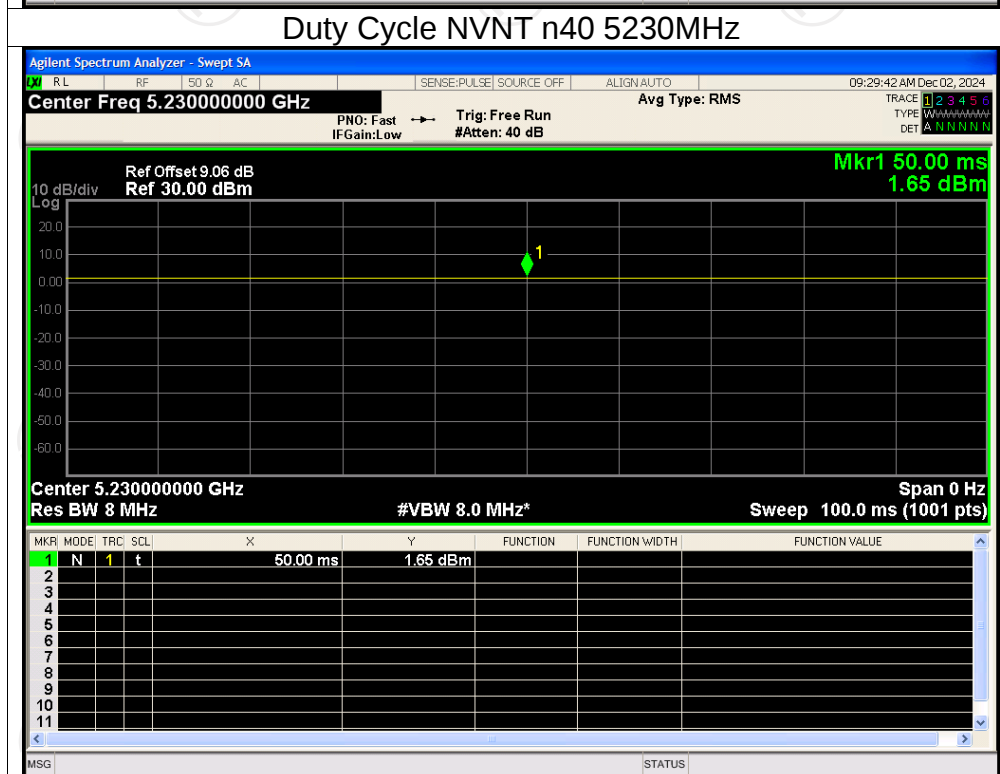
Duty Cycle NVNT n20 5240MHz



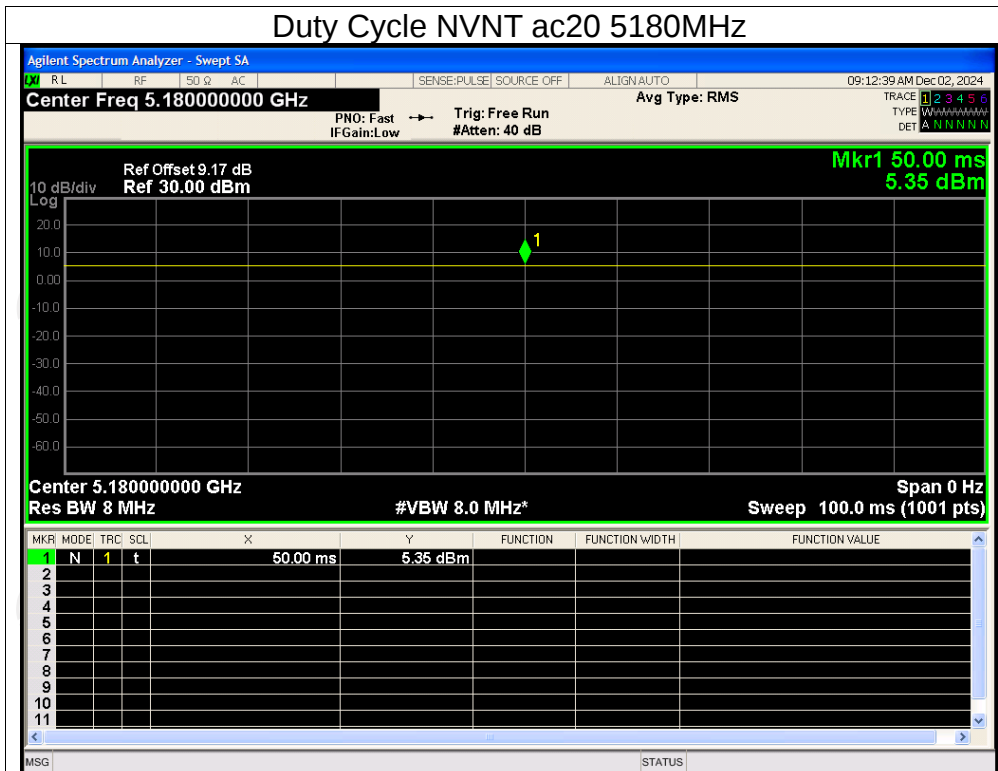
Duty Cycle NVNT n40 5190MHz



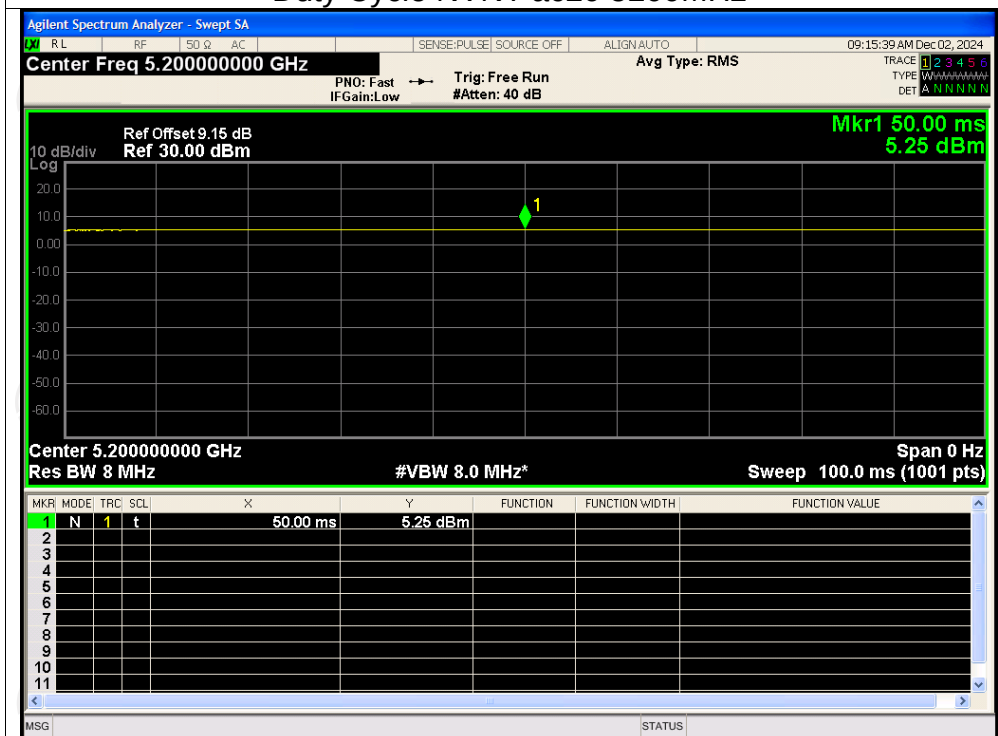
Duty Cycle NVNT n40 5230MHz



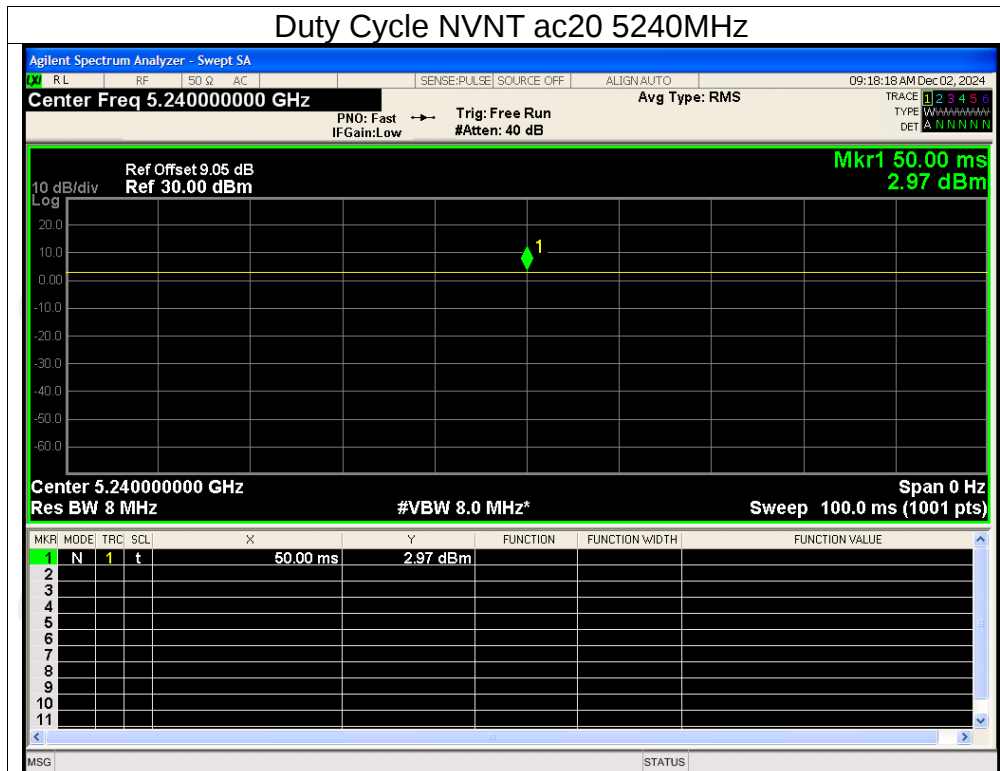
Duty Cycle NVNT ac20 5180MHz



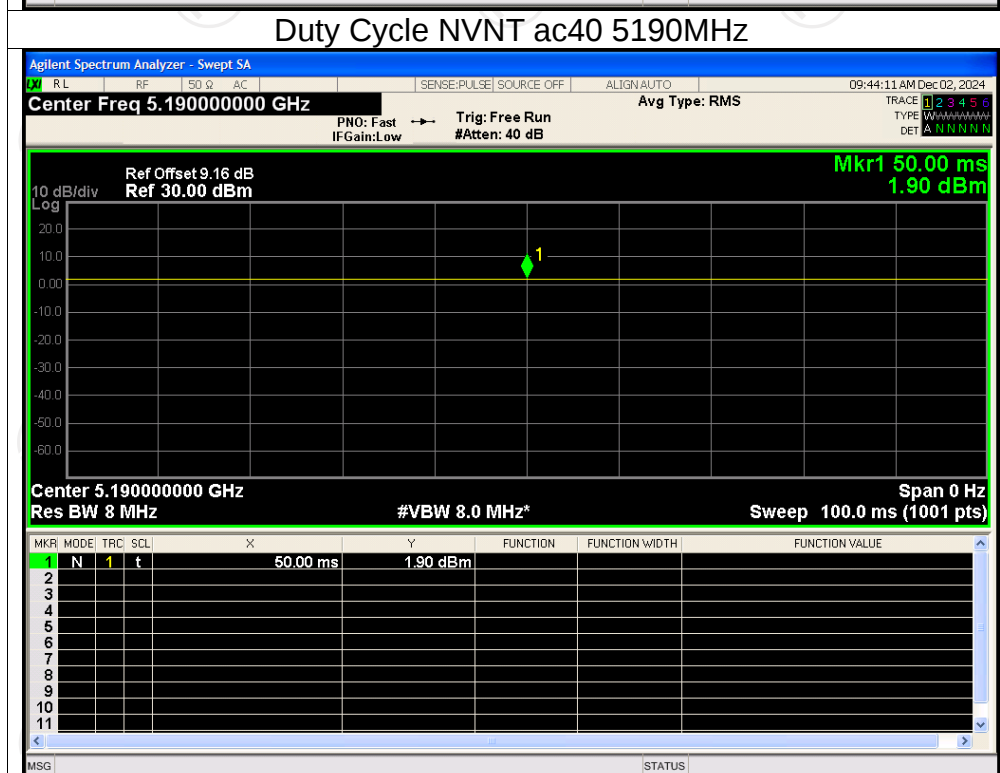
Duty Cycle NVNT ac20 5200MHz

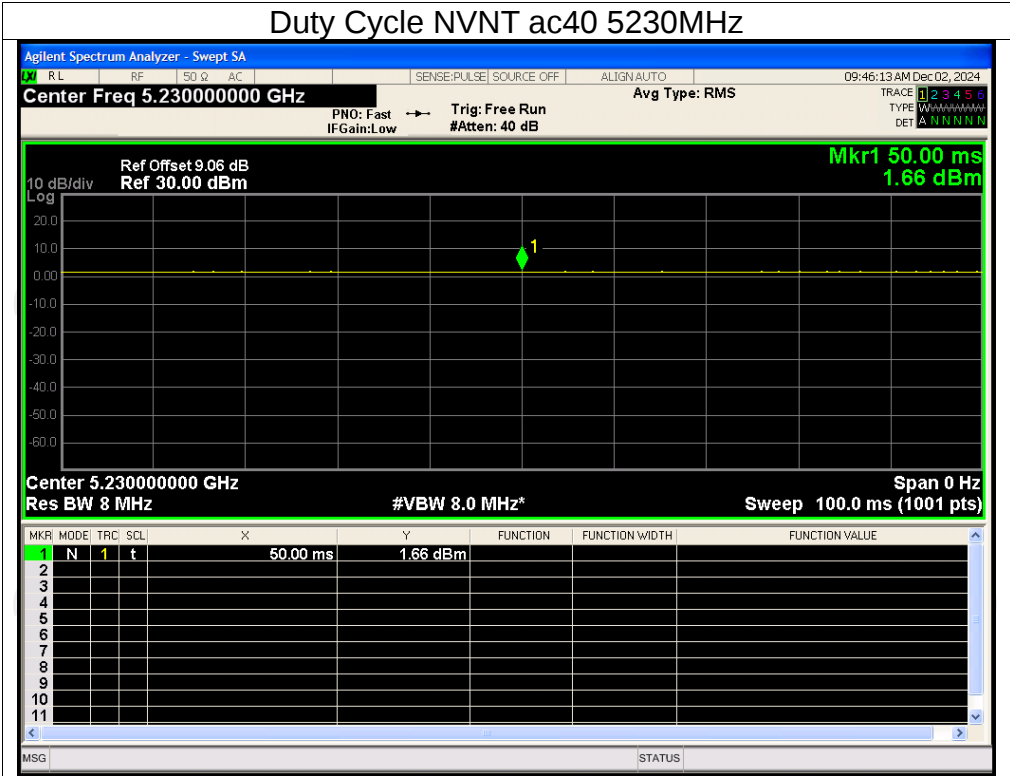


Duty Cycle NVNT ac20 5240MHz



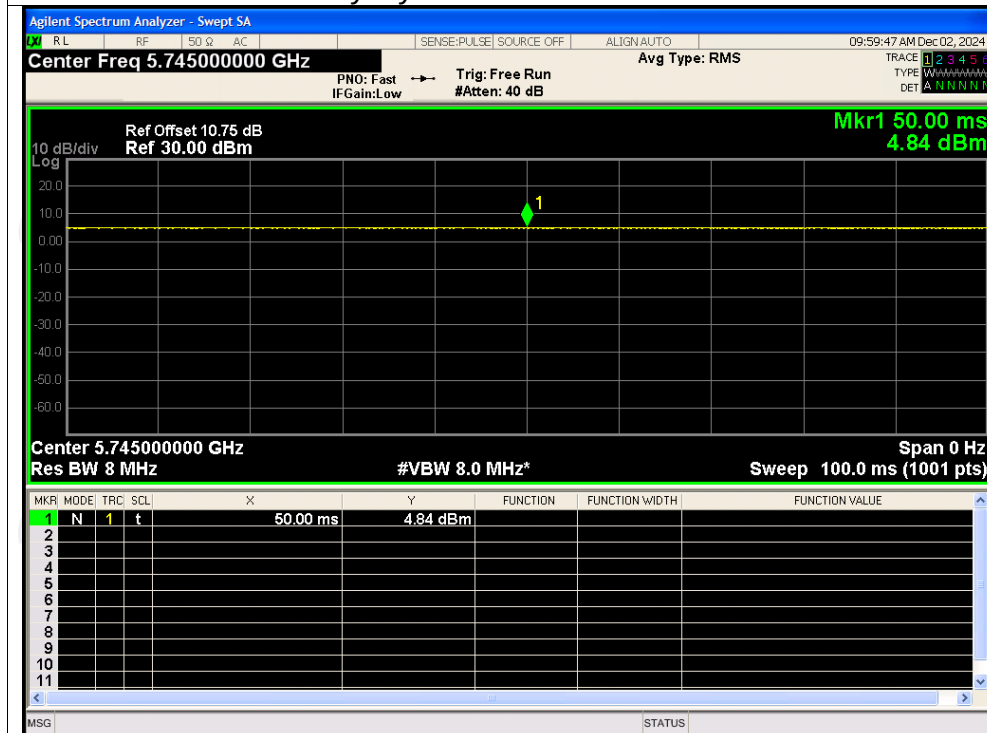
Duty Cycle NVNT ac40 5190MHz



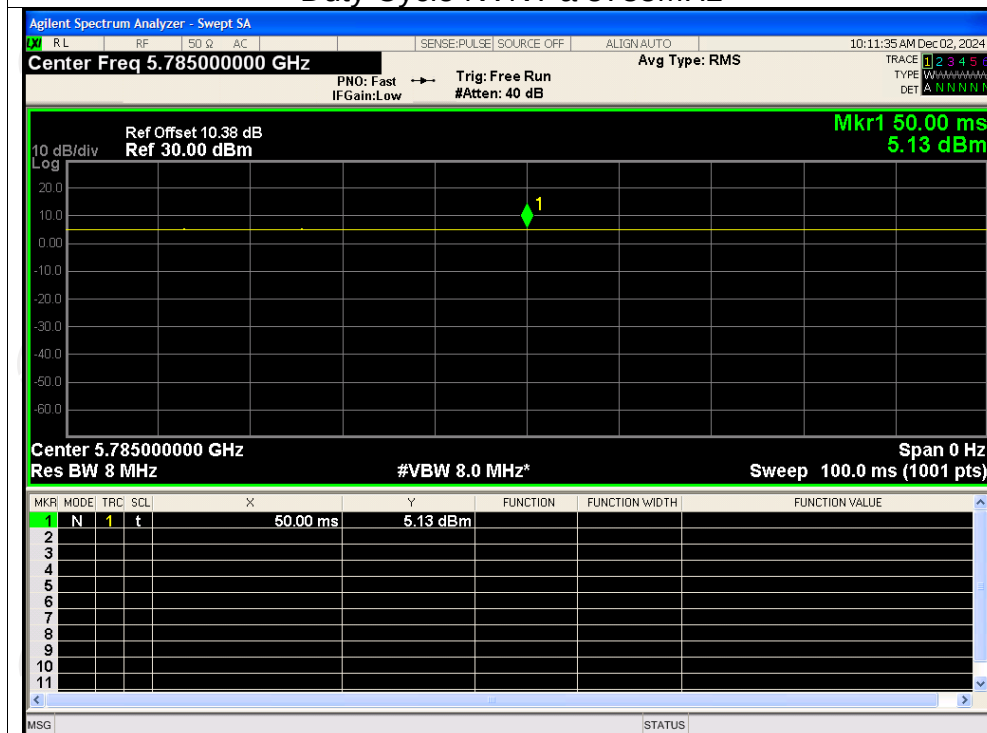


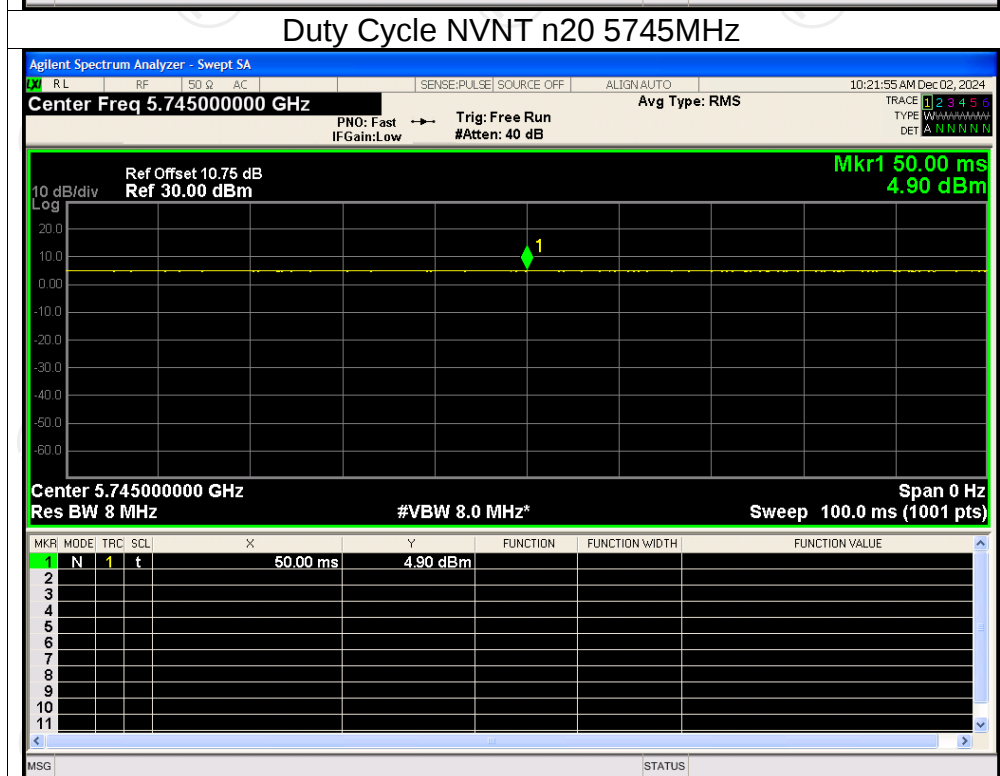
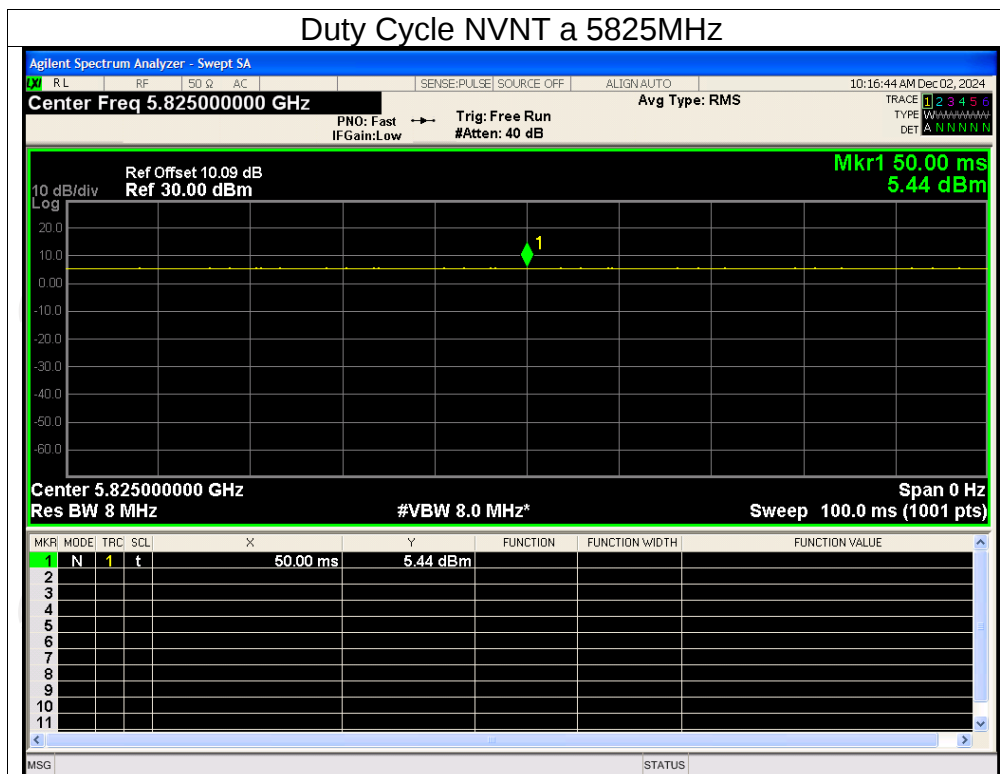
Test Graphs

Duty Cycle NVNT a 5745MHz

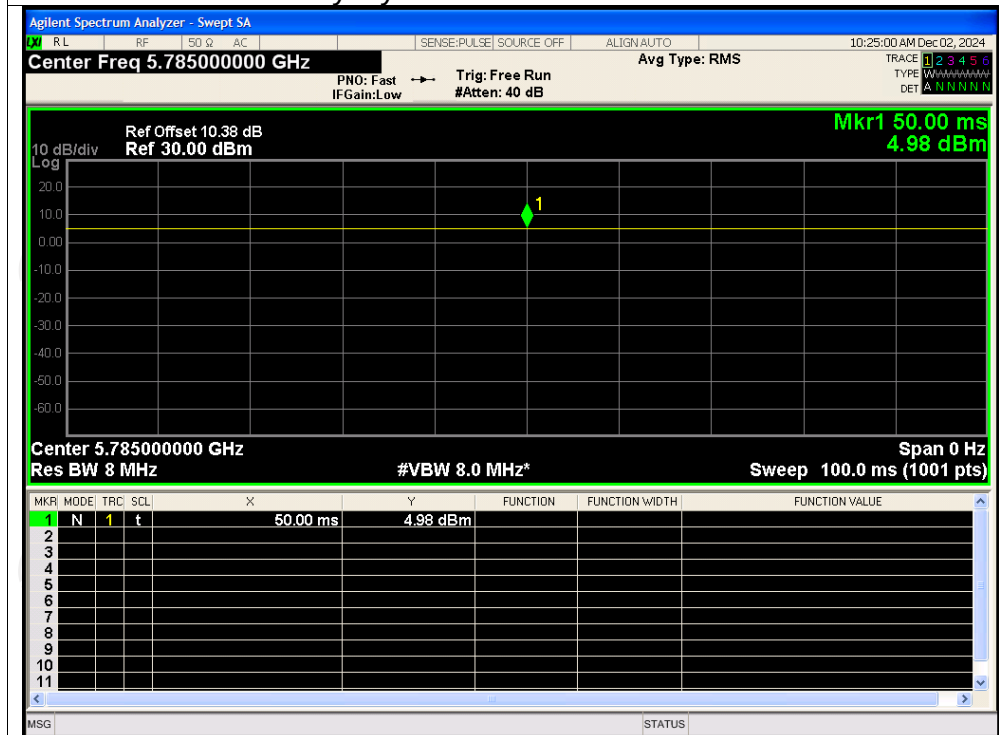


Duty Cycle NVNT a 5785MHz

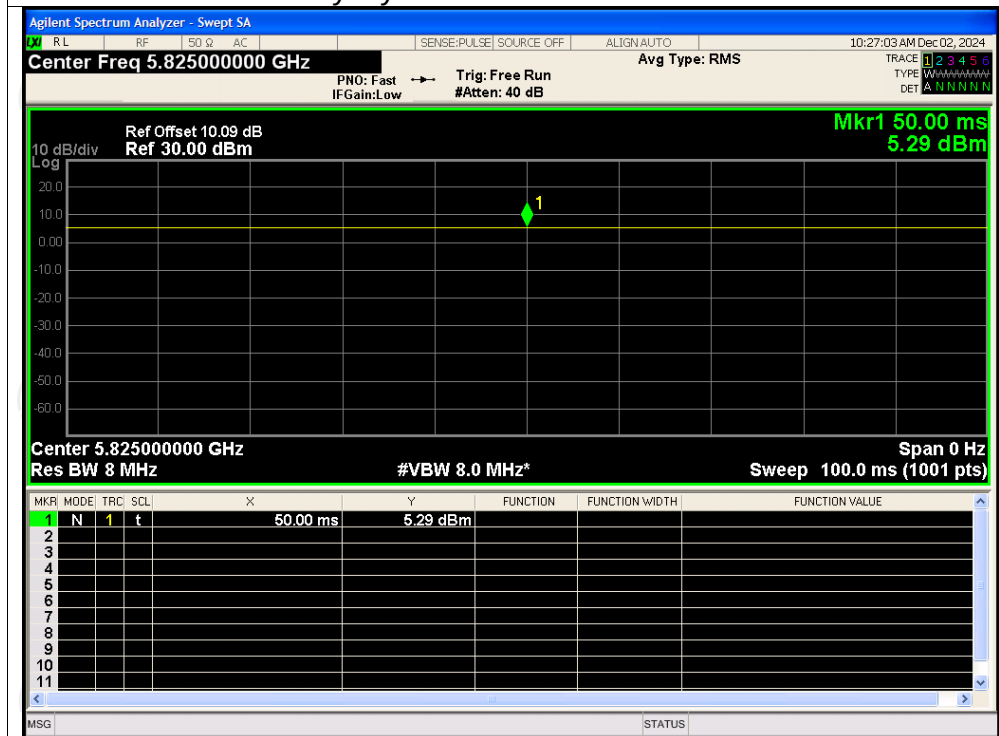




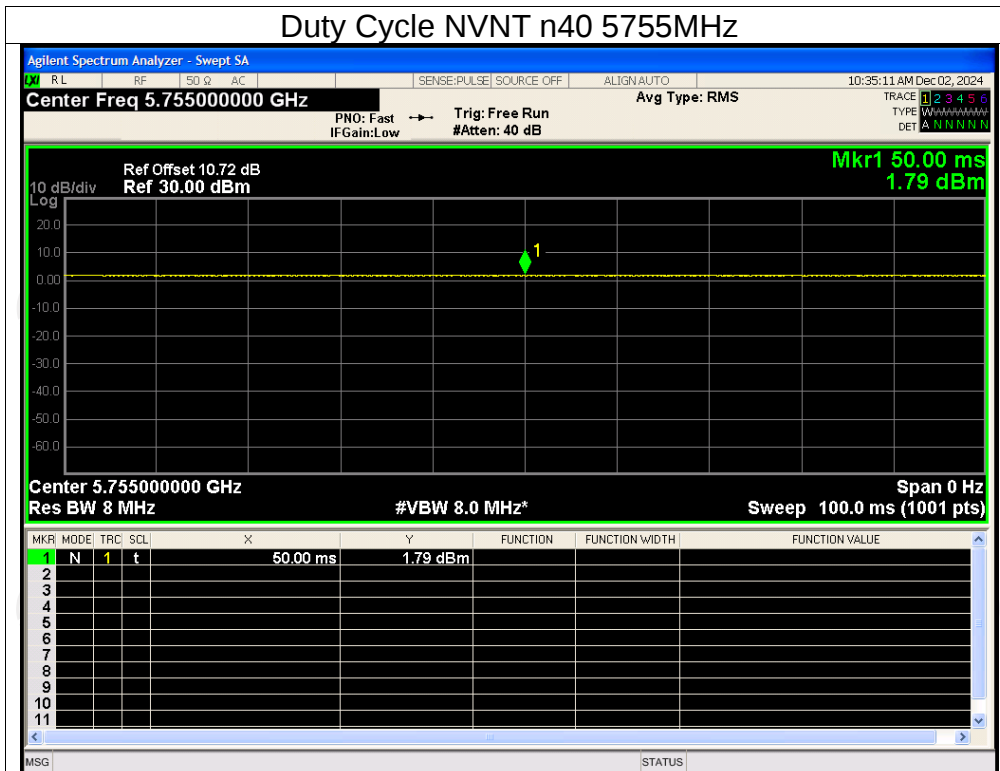
Duty Cycle NVNT n20 5785MHz



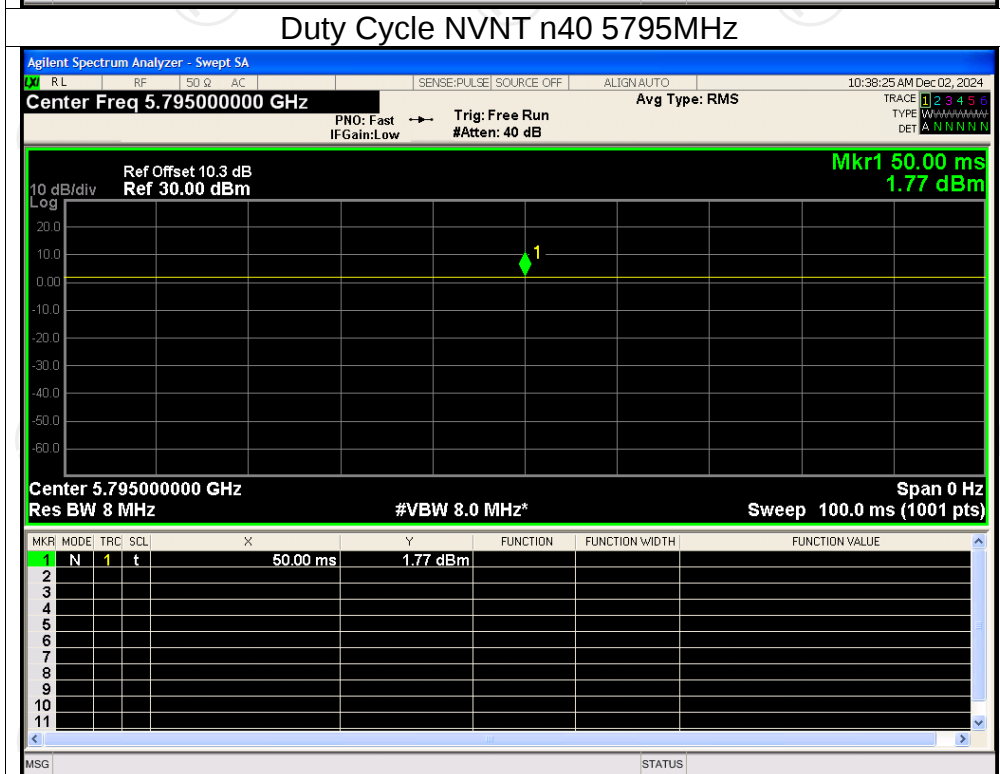
Duty Cycle NVNT n20 5825MHz



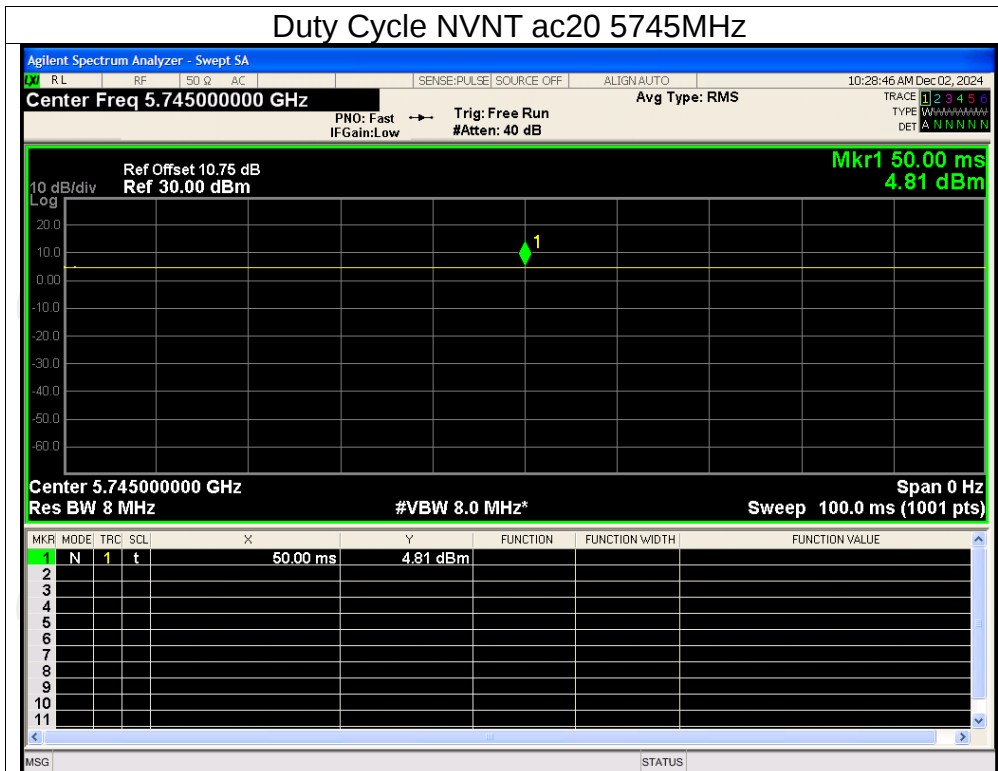
Duty Cycle NVNT n40 5755MHz



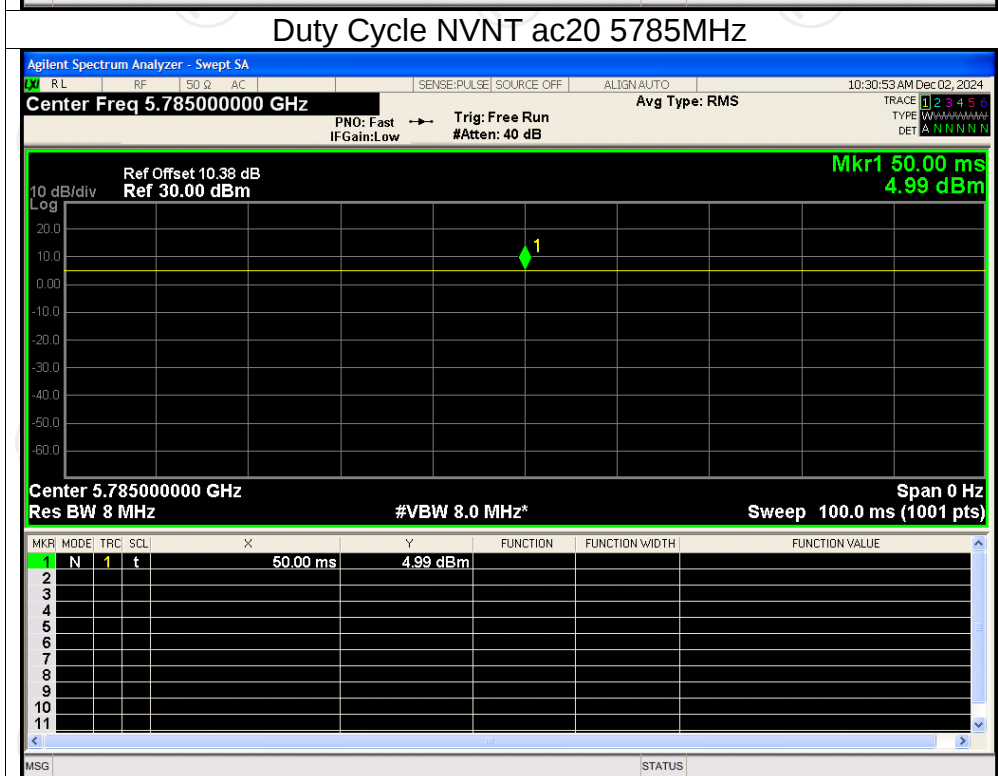
Duty Cycle NVNT n40 5795MHz



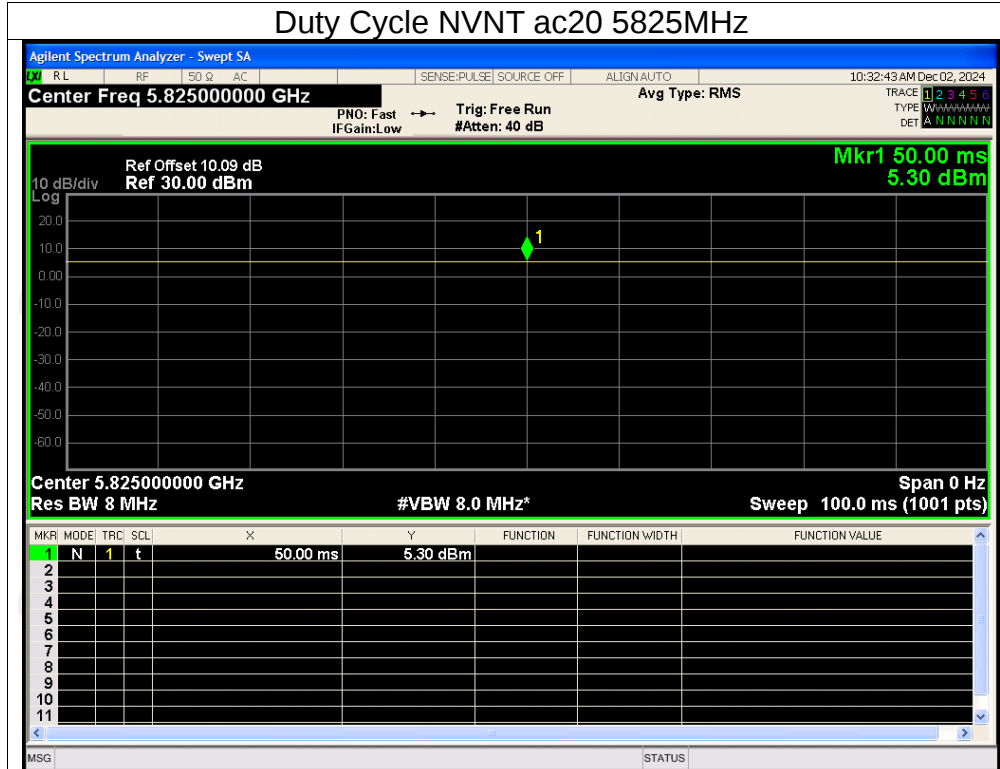
Duty Cycle NVNT ac20 5745MHz



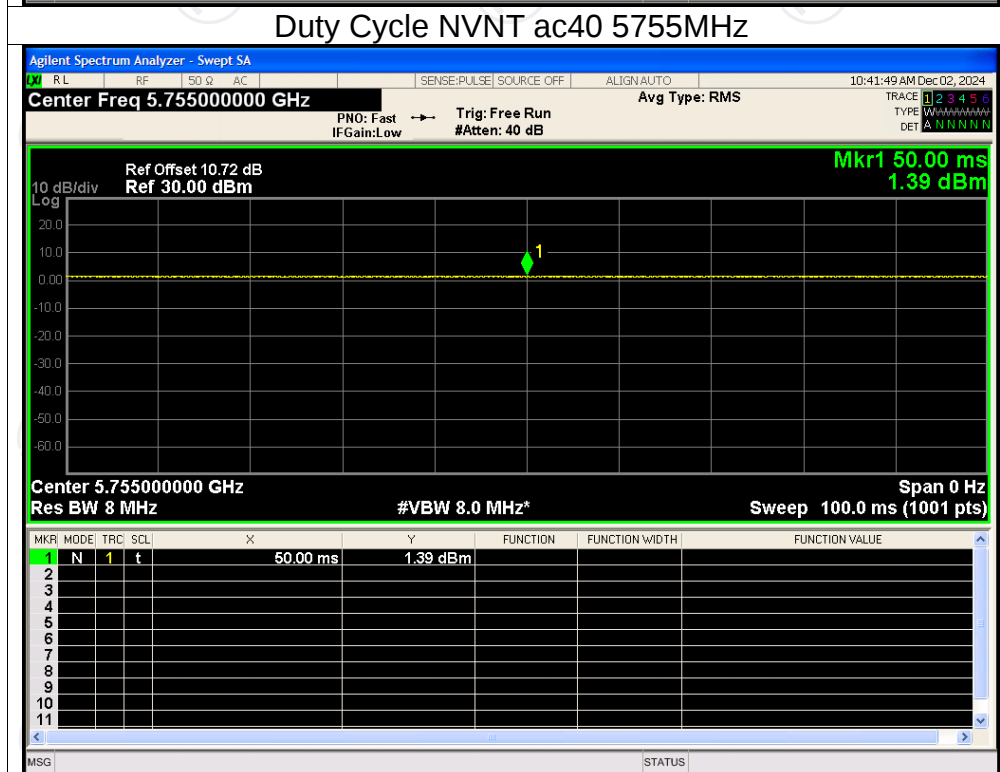
Duty Cycle NVNT ac20 5785MHz

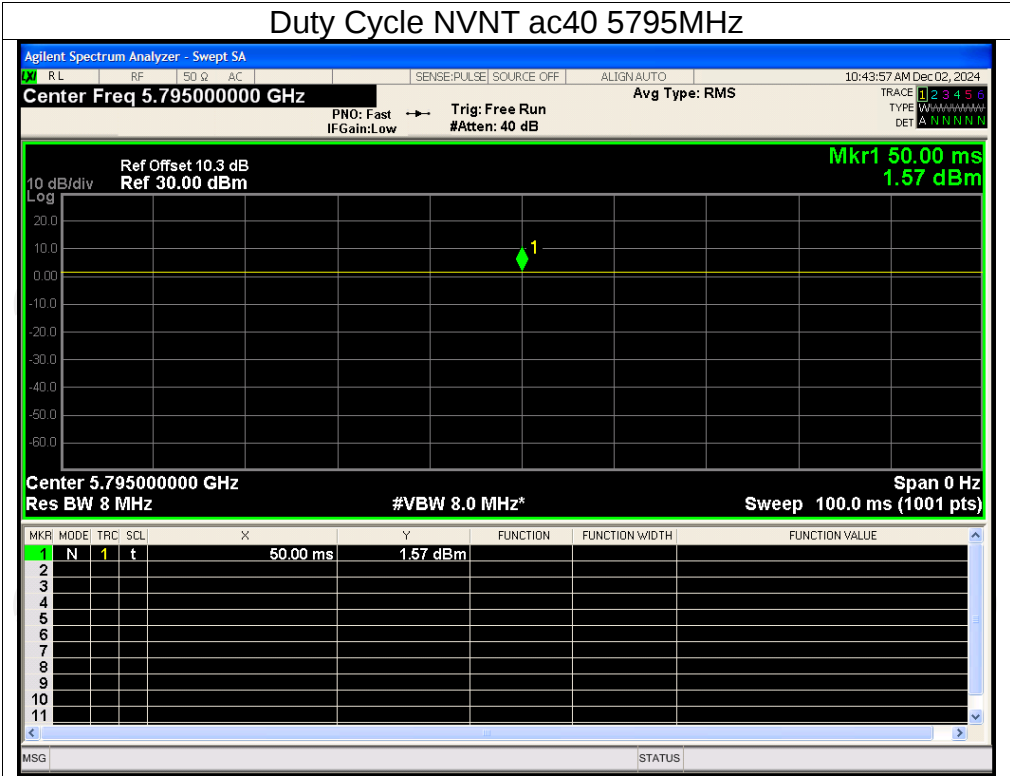


Duty Cycle NVNT ac20 5825MHz



Duty Cycle NVNT ac40 5755MHz



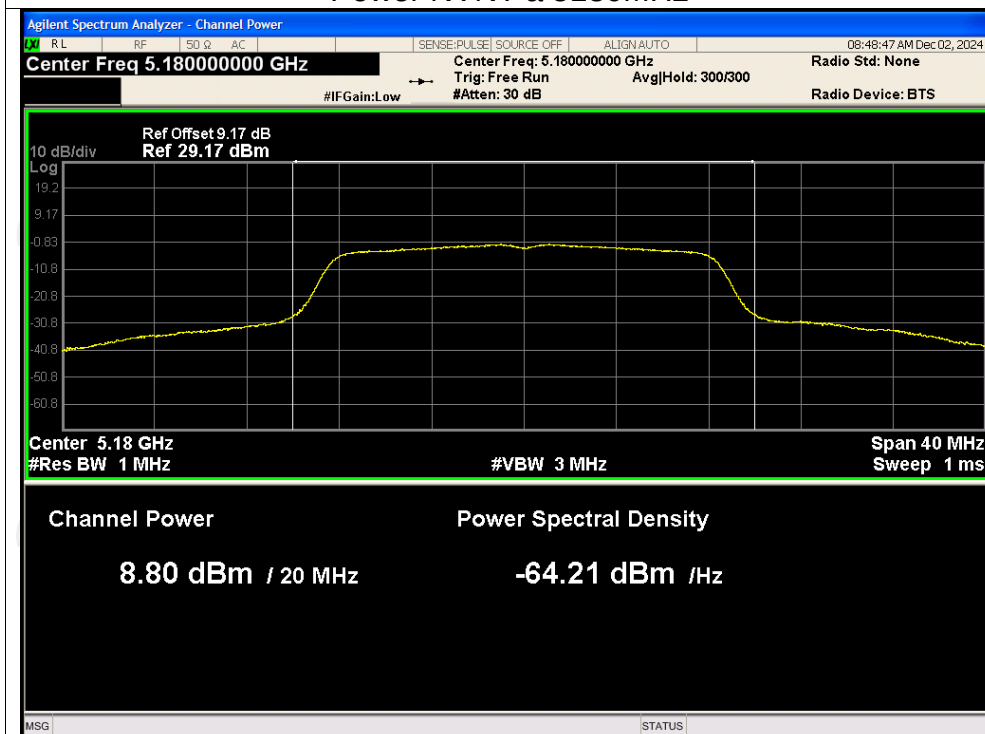


Maximum Conducted Output Power

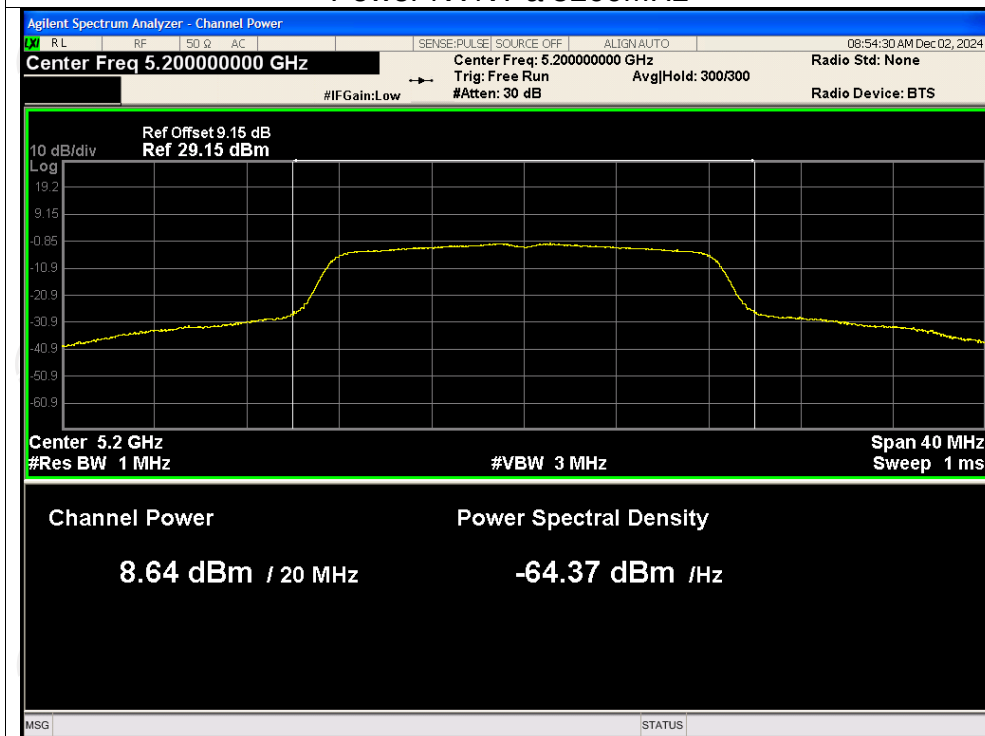
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	8.80	24	Pass
NVNT	a	5200	8.64	24	Pass
NVNT	a	5240	8.03	24	Pass
NVNT	n20	5180	8.18	24	Pass
NVNT	n20	5200	7.80	24	Pass
NVNT	n20	5240	7.25	24	Pass
NVNT	n40	5190	8.16	24	Pass
NVNT	n40	5230	7.97	24	Pass
NVNT	ac20	5180	8.12	24	Pass
NVNT	ac20	5200	8.06	24	Pass
NVNT	ac20	5240	5.76	24	Pass
NVNT	ac40	5190	8.28	24	Pass
NVNT	ac40	5230	8.05	24	Pass
NVNT	a	5745	7.38	30	Pass
NVNT	a	5785	7.72	30	Pass
NVNT	a	5825	8.05	30	Pass
NVNT	n20	5745	7.64	30	Pass
NVNT	n20	5785	7.85	30	Pass
NVNT	n20	5825	8.14	30	Pass
NVNT	n40	5755	8.26	30	Pass
NVNT	n40	5795	8.28	30	Pass
NVNT	ac20	5745	7.62	30	Pass
NVNT	ac20	5785	7.87	30	Pass
NVNT	ac20	5825	8.12	30	Pass
NVNT	ac40	5755	7.92	30	Pass
NVNT	ac40	5795	8.01	30	Pass

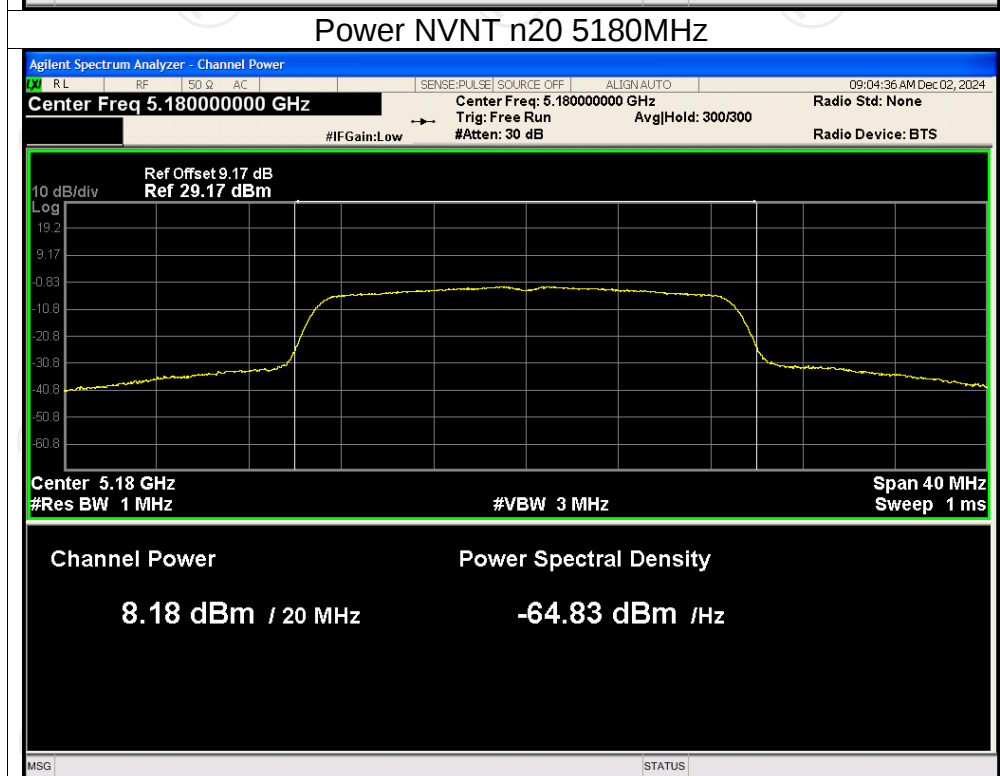
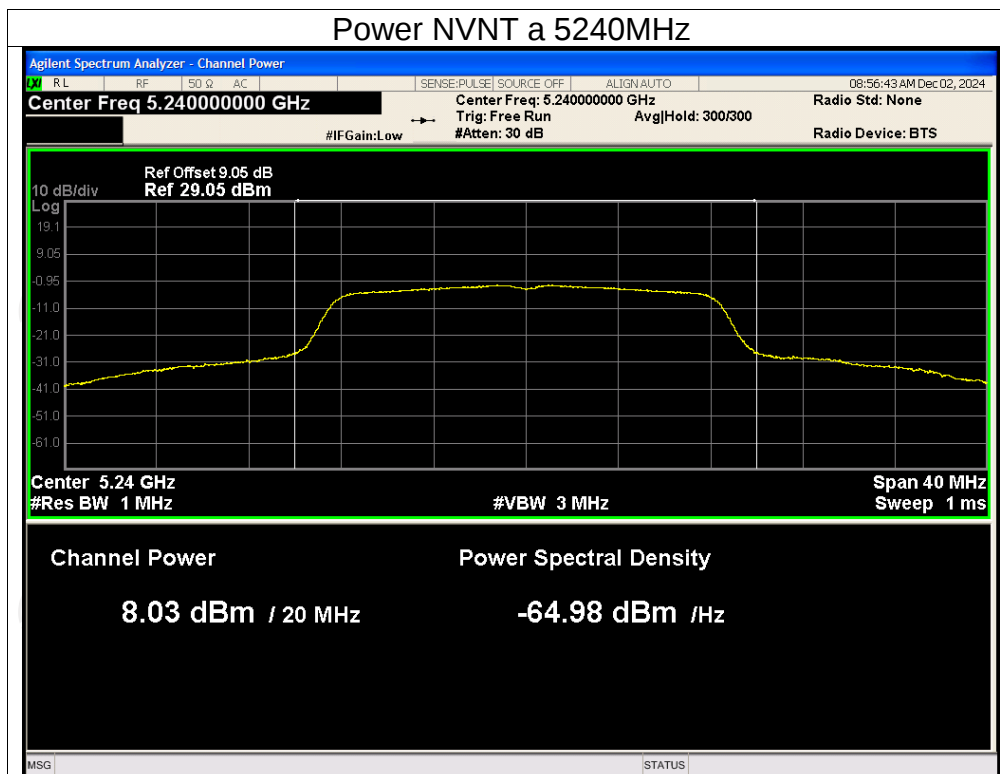
Test Graphs

Power NVNT a 5180MHz

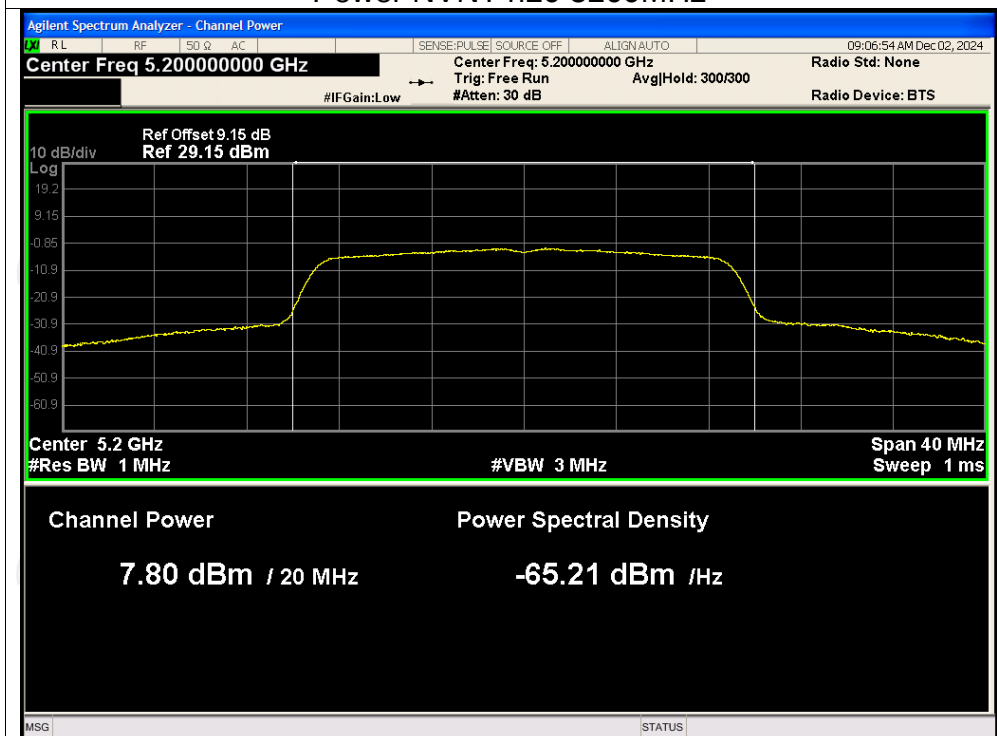


Power NVNT a 5200MHz

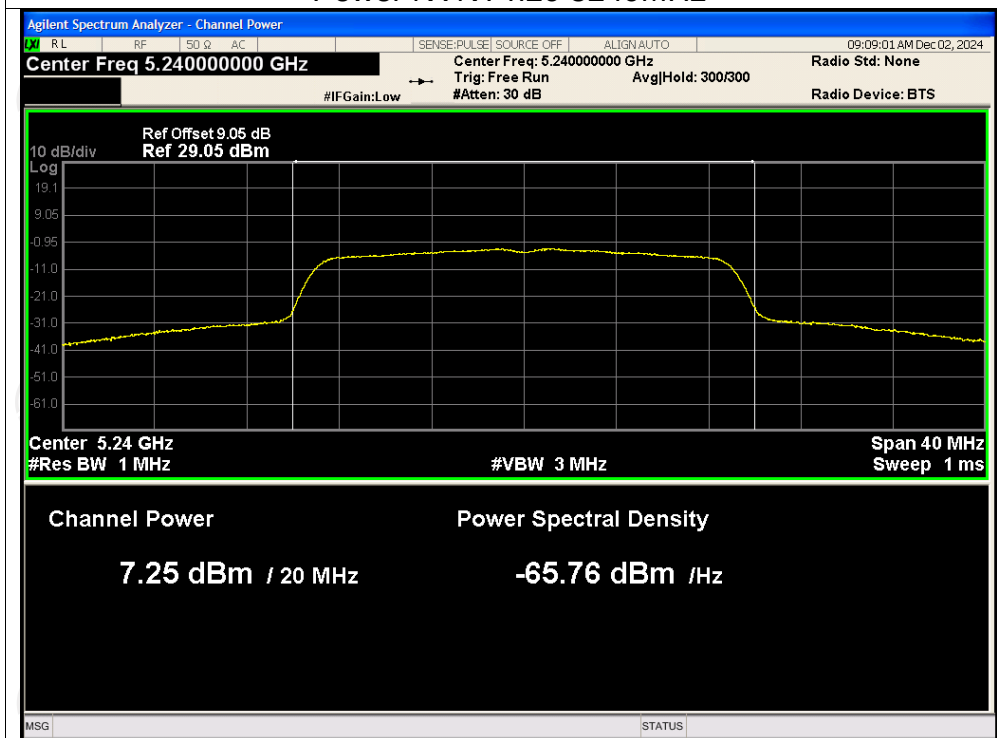




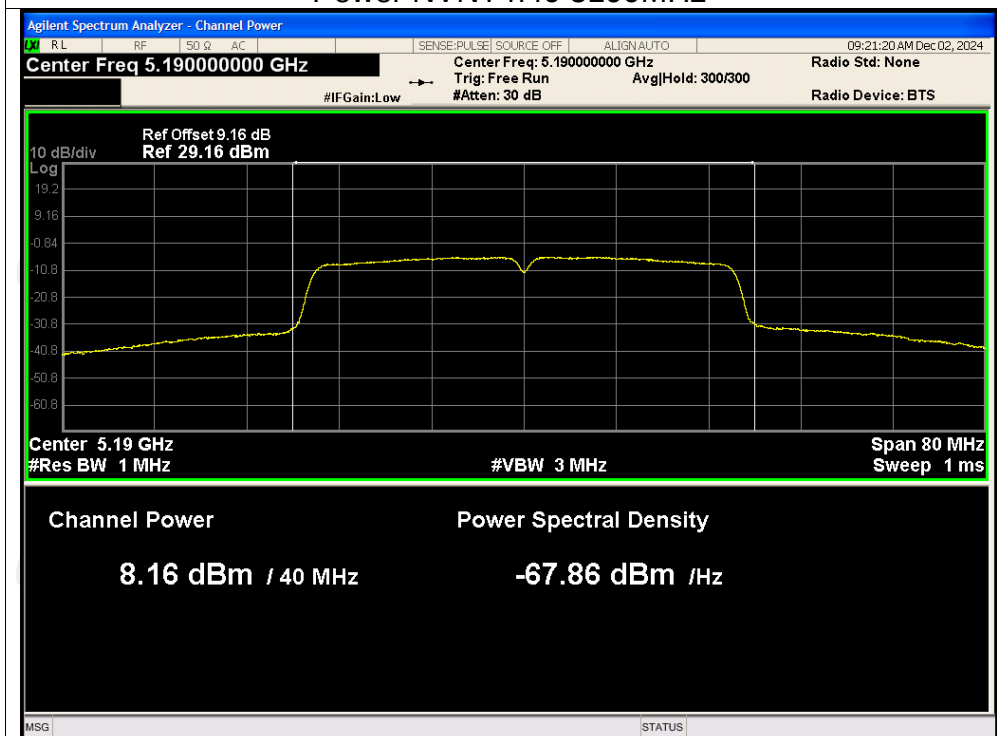
Power NVNT n20 5200MHz



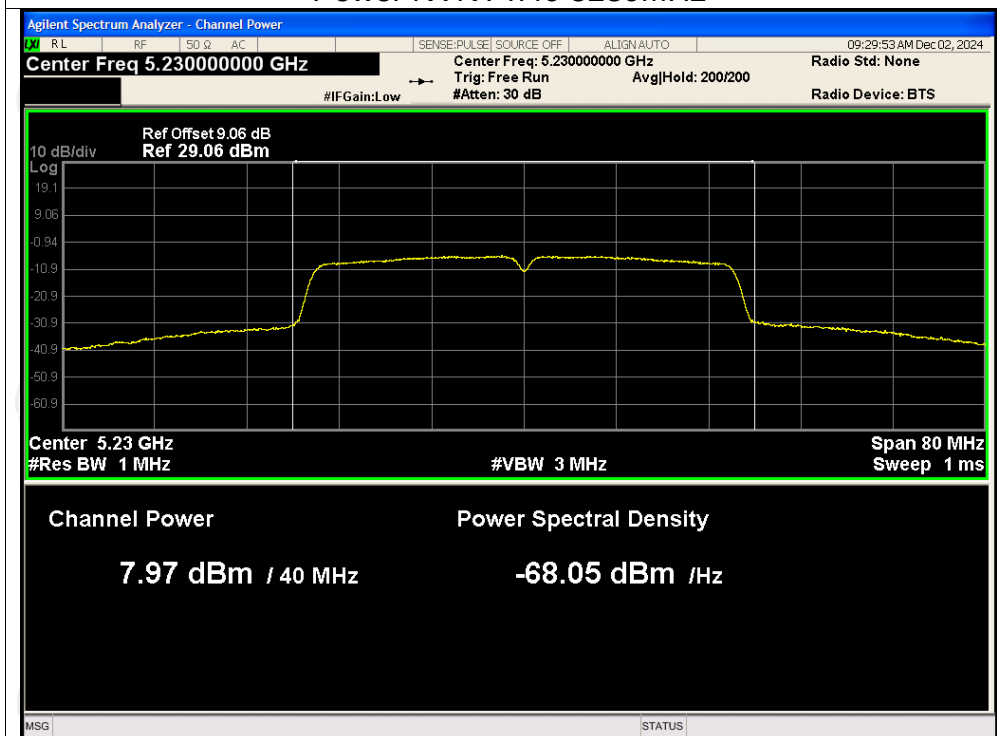
Power NVNT n20 5240MHz



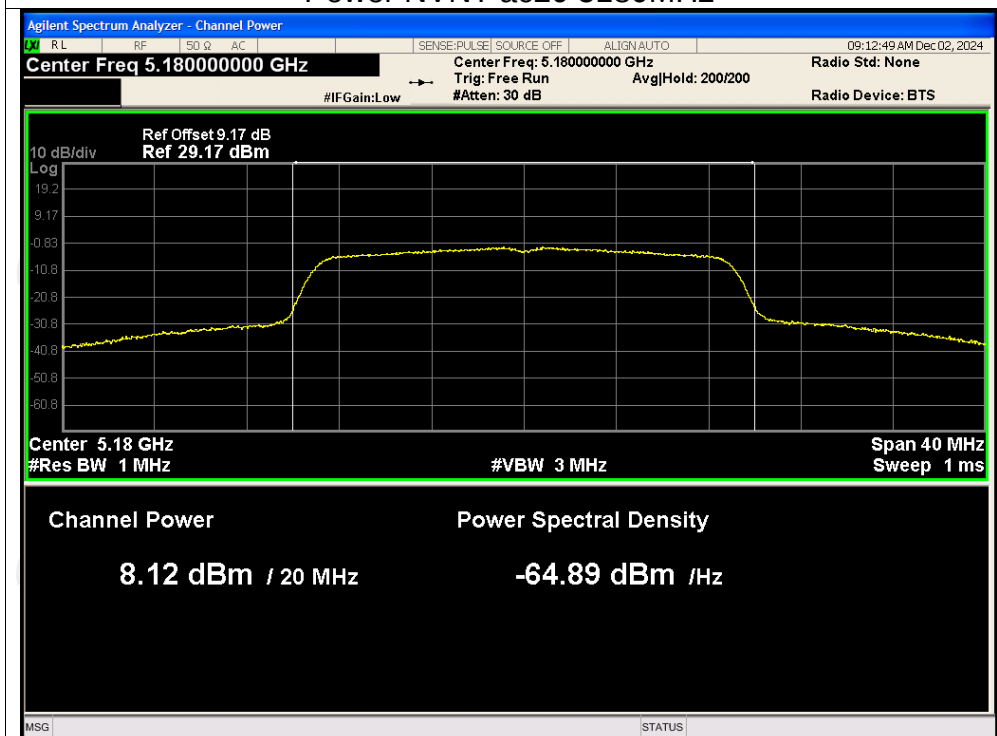
Power NVNT n40 5190MHz



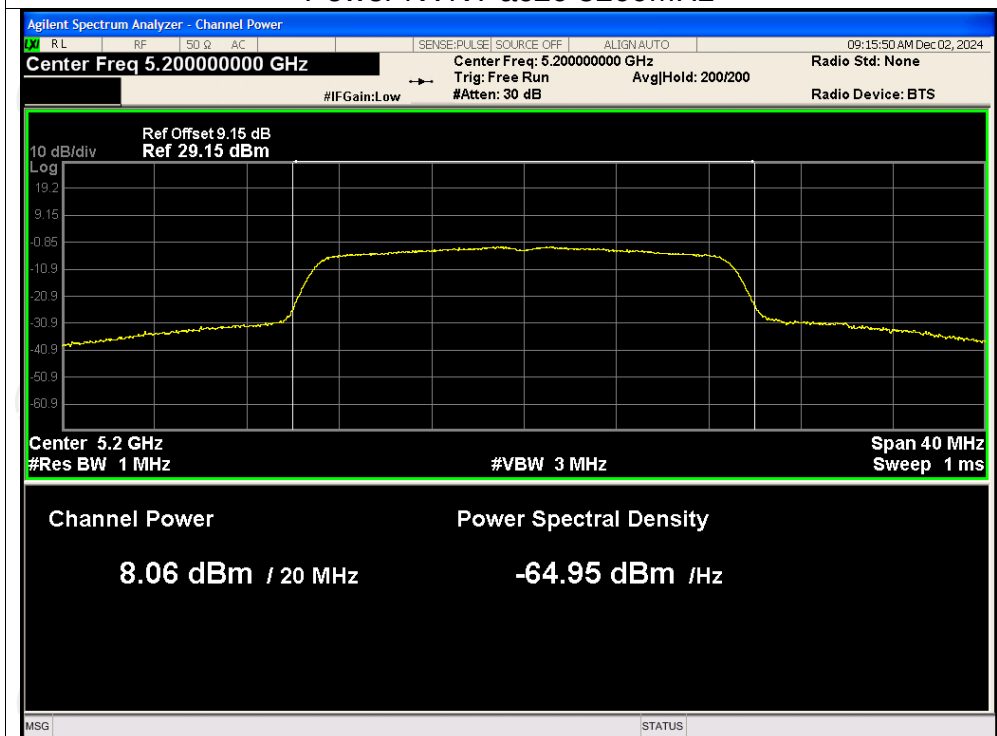
Power NVNT n40 5230MHz



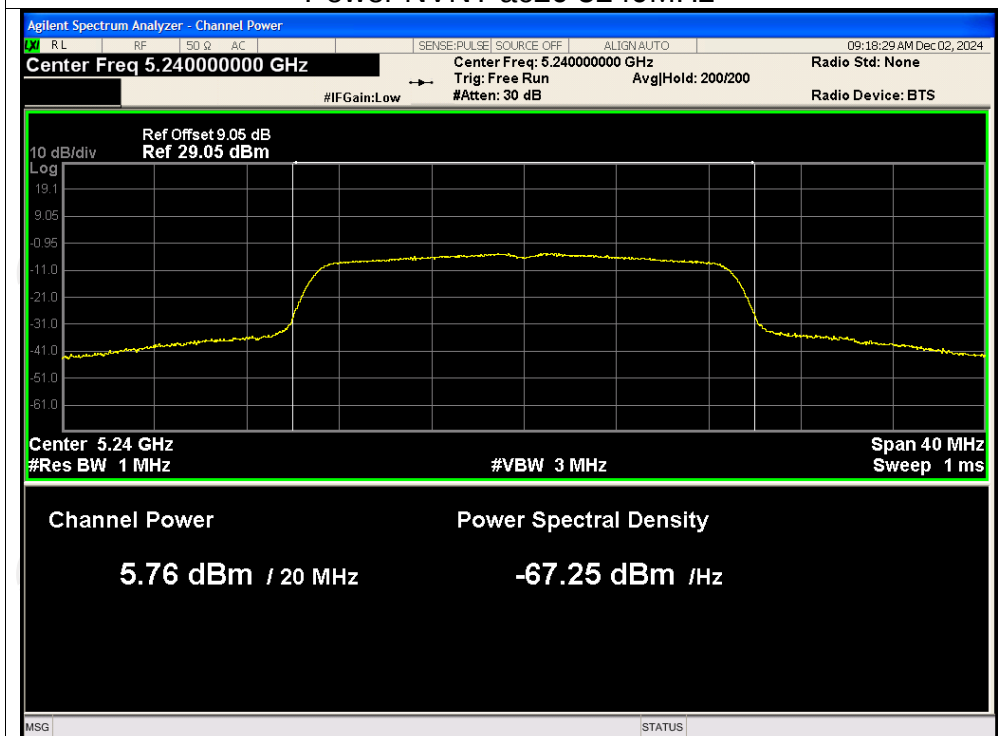
Power NVNT ac20 5180MHz



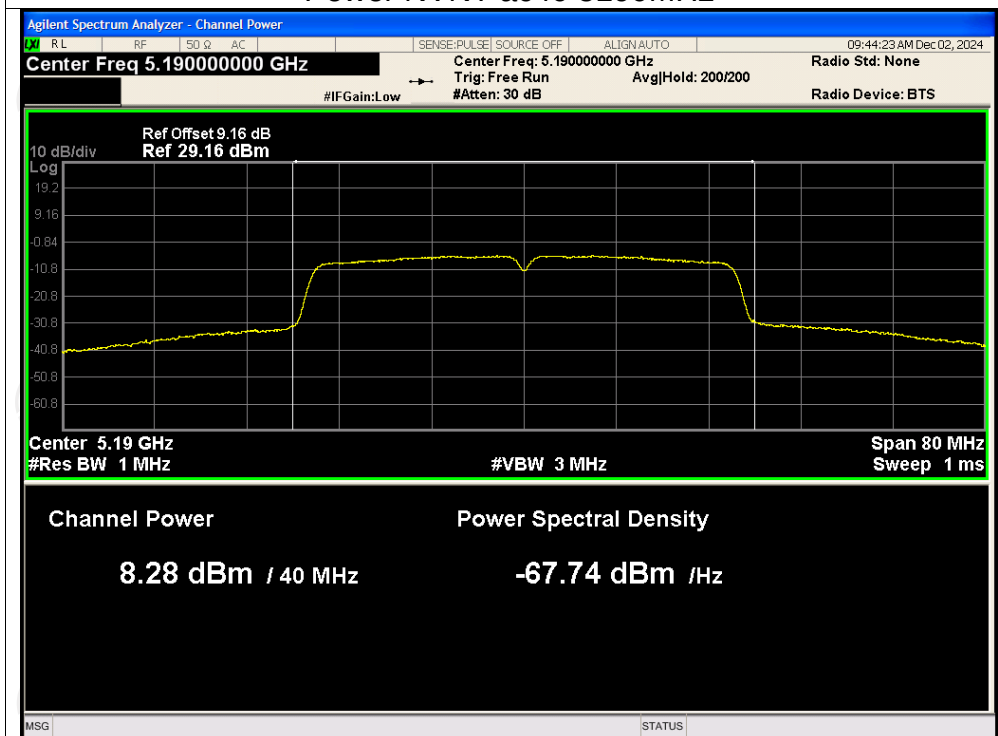
Power NVNT ac20 5200MHz

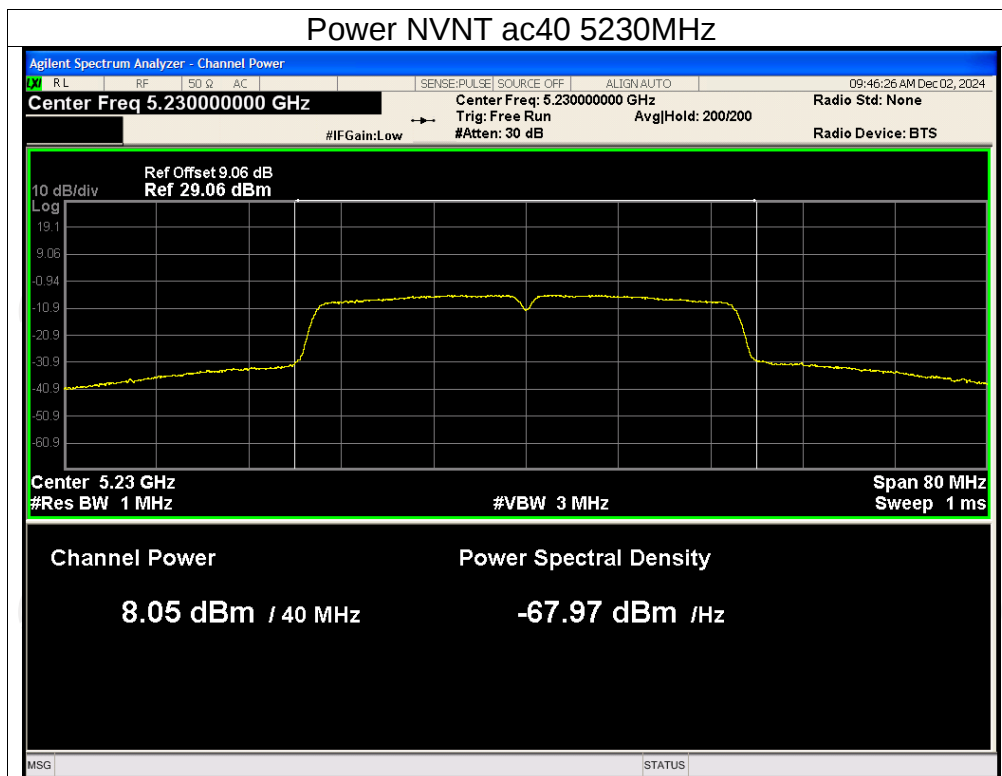


Power NVNT ac20 5240MHz



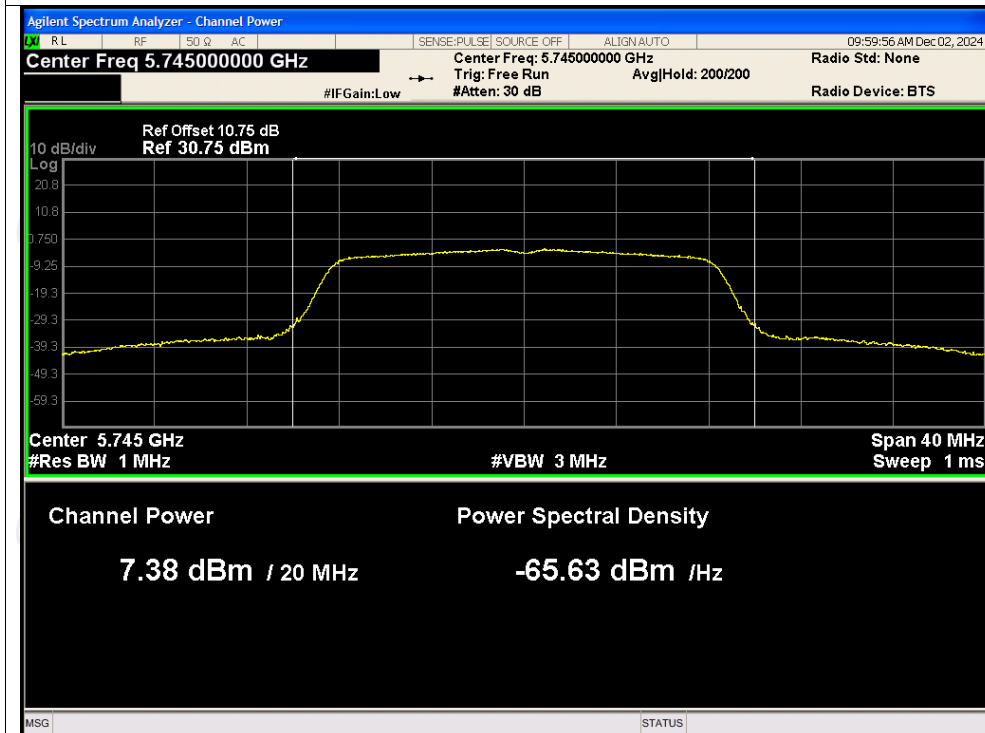
Power NVNT ac40 5190MHz



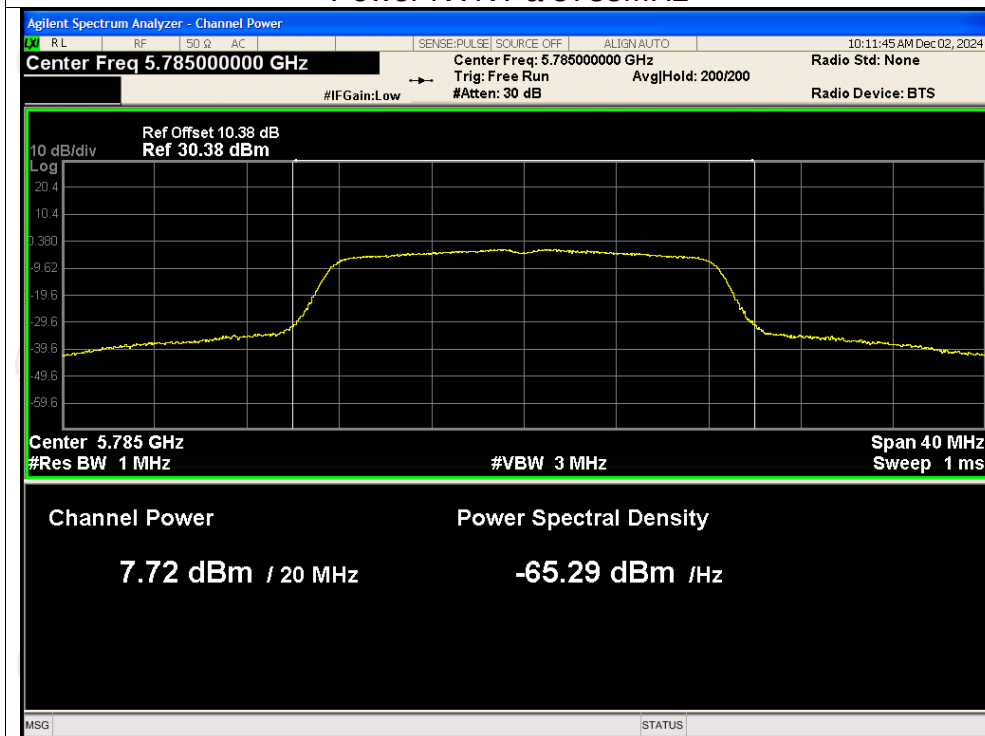


Test Graphs

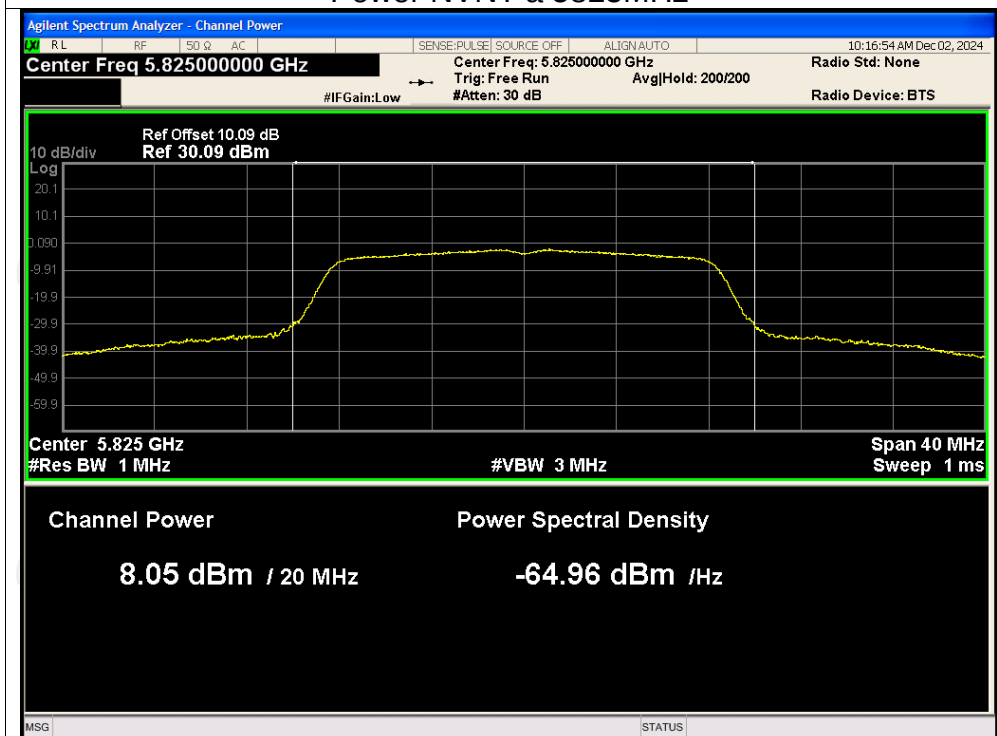
Power NVNT a 5745MHz



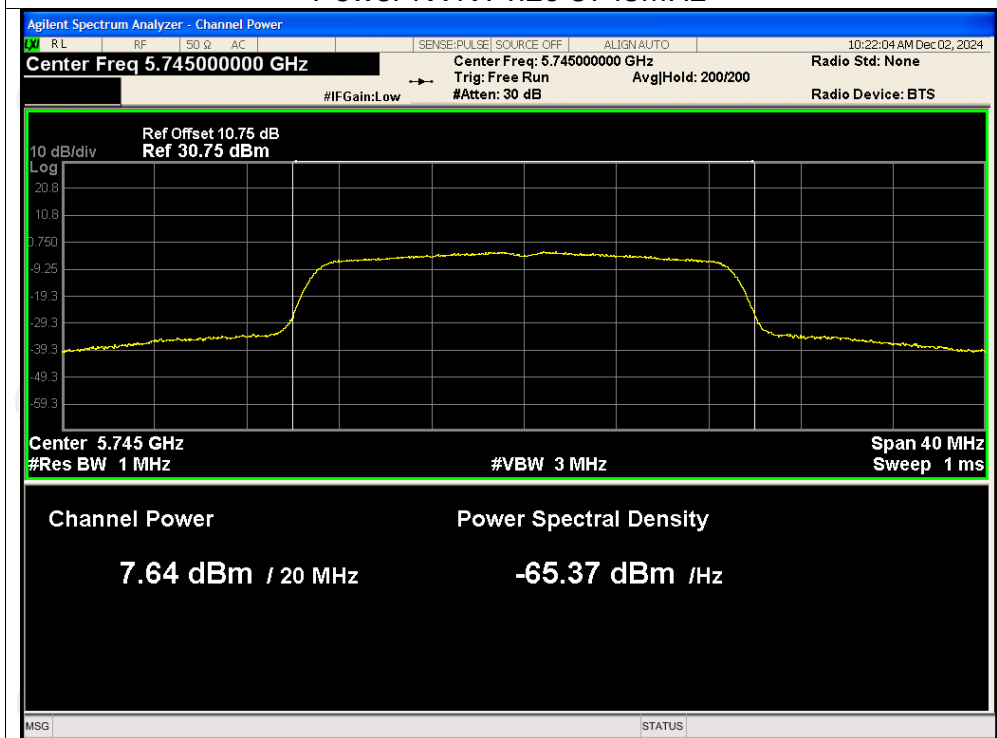
Power NVNT a 5785MHz



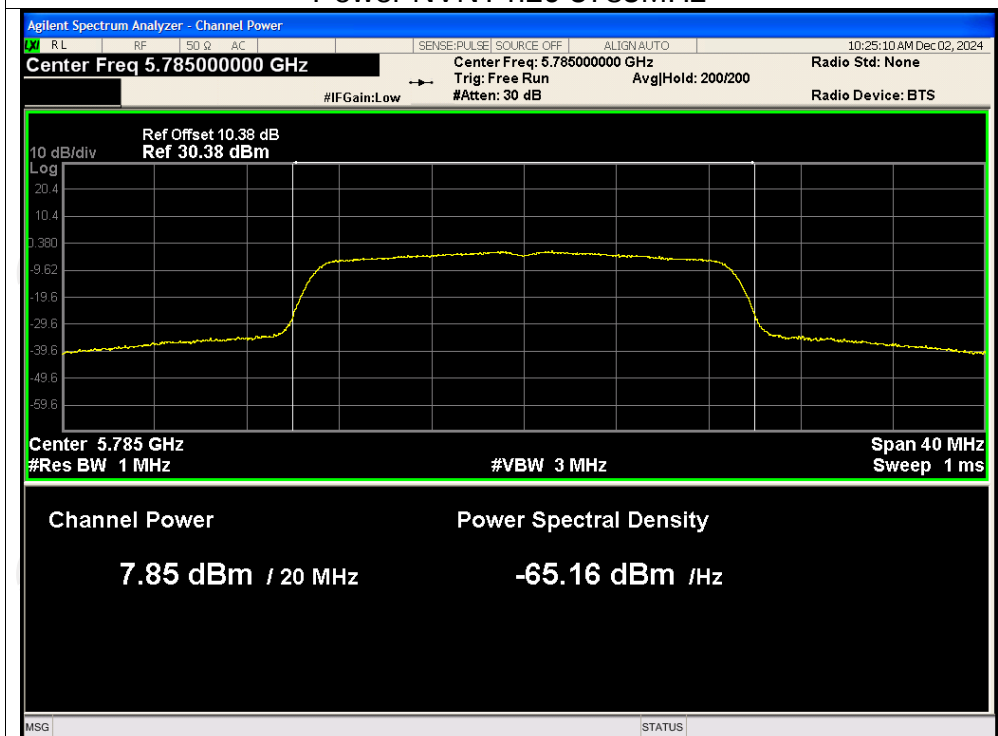
Power NVNT a 5825MHz



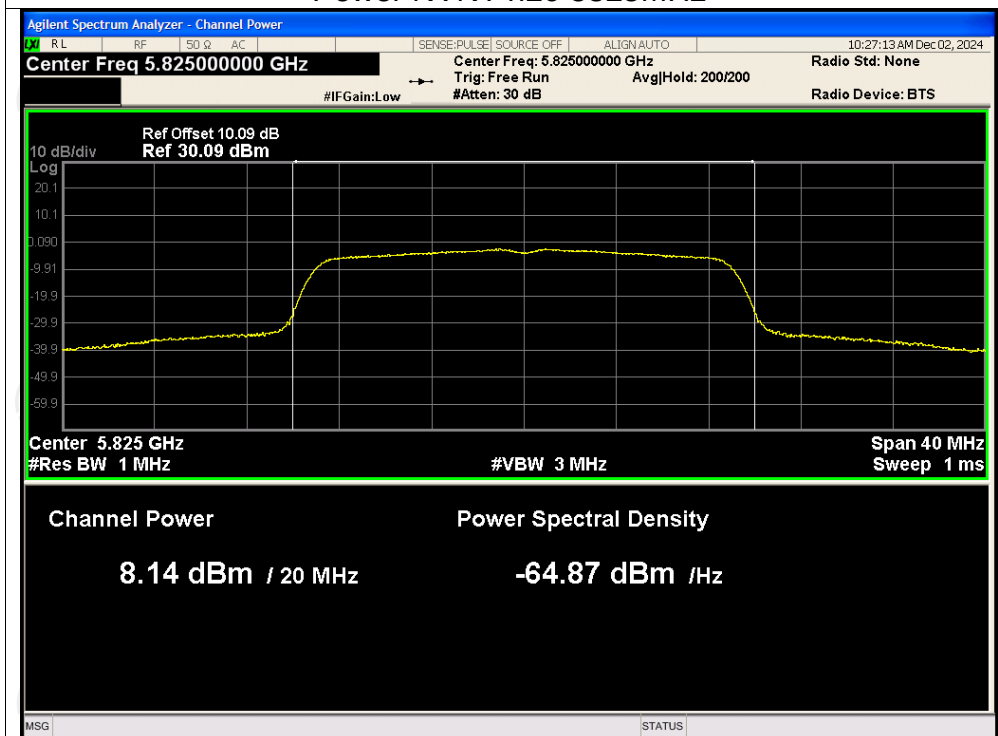
Power NVNT n20 5745MHz



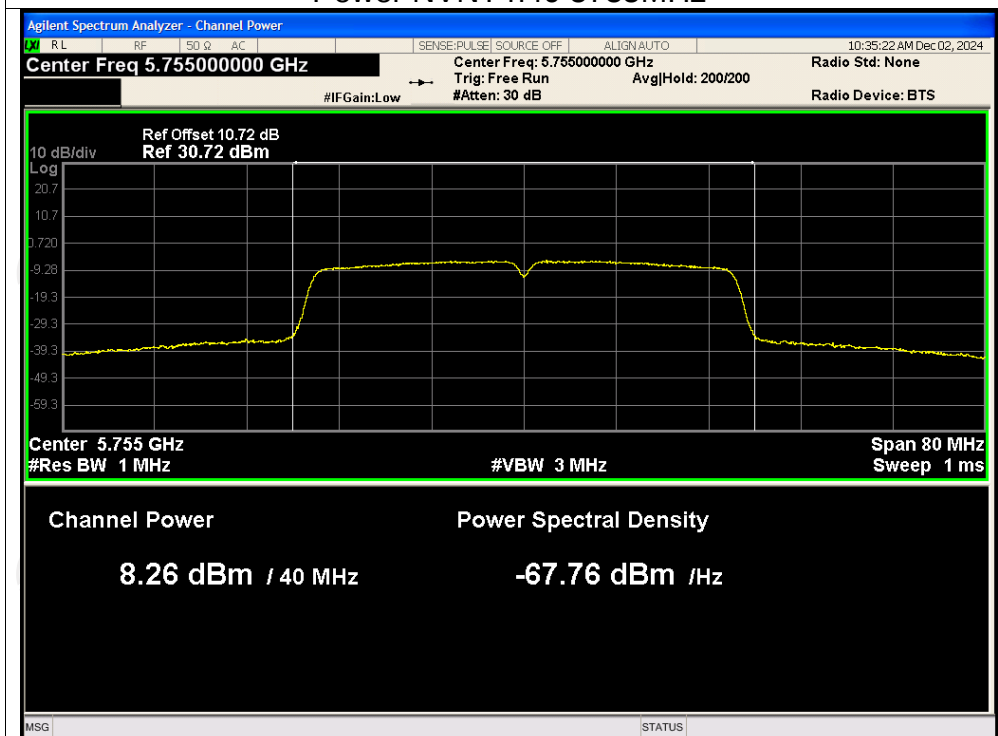
Power NVNT n20 5785MHz



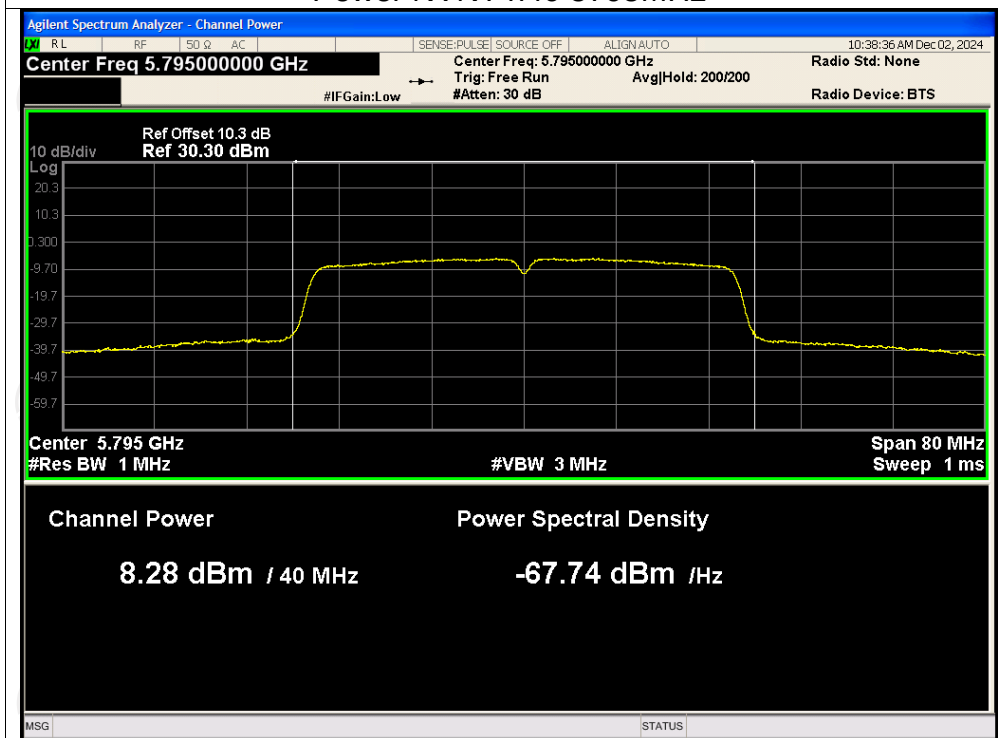
Power NVNT n20 5825MHz



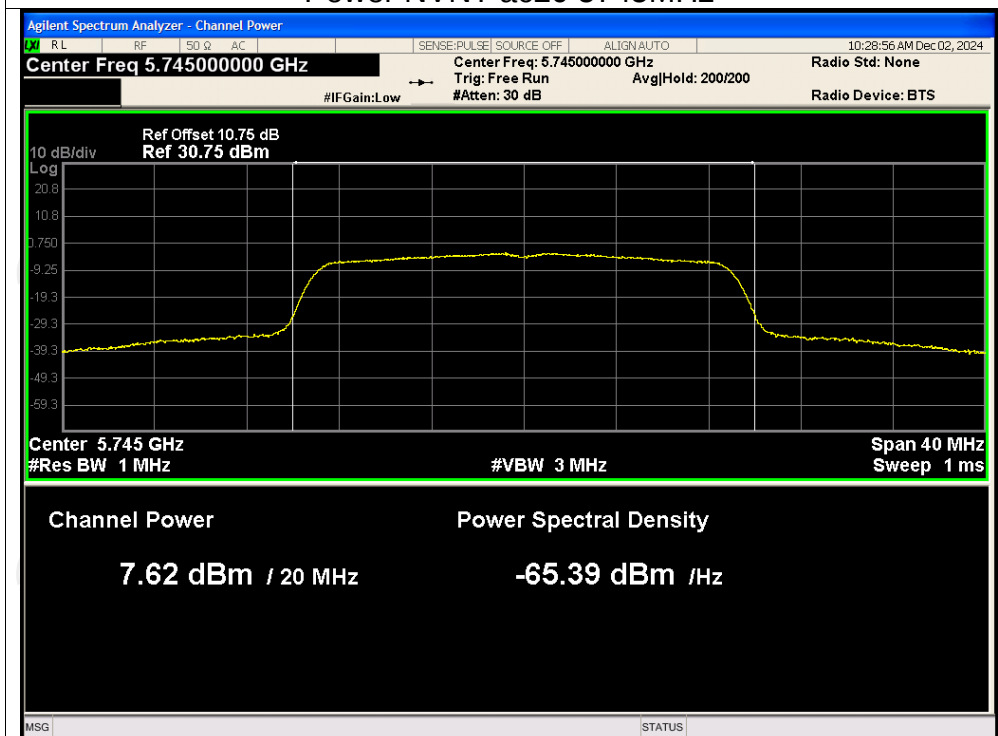
Power NVNT n40 5755MHz



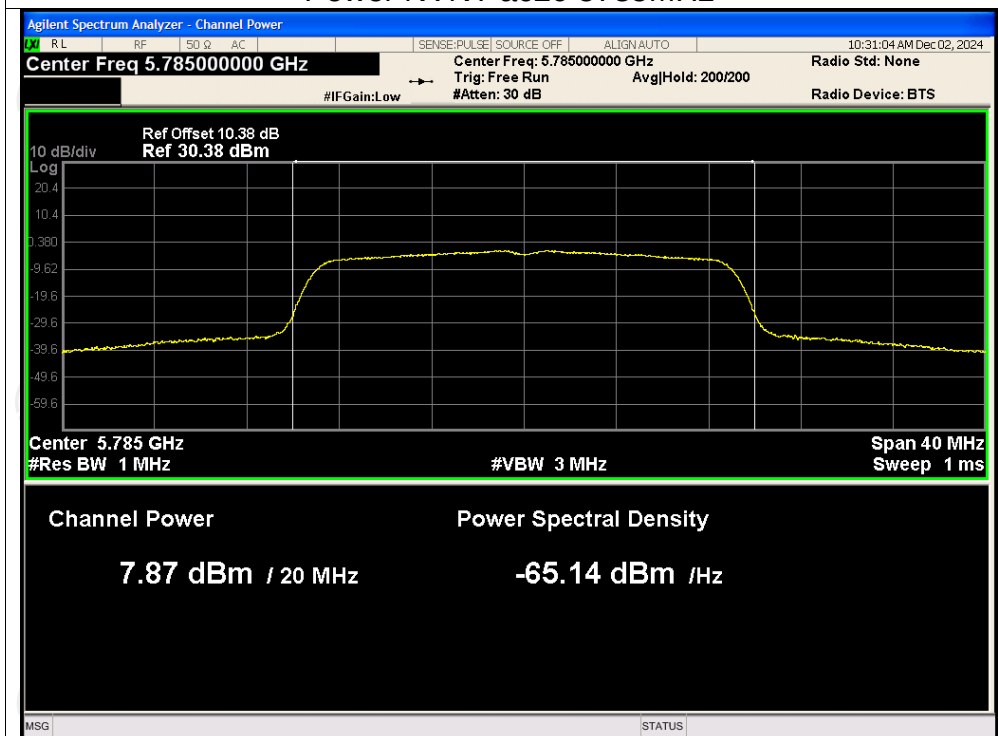
Power NVNT n40 5795MHz



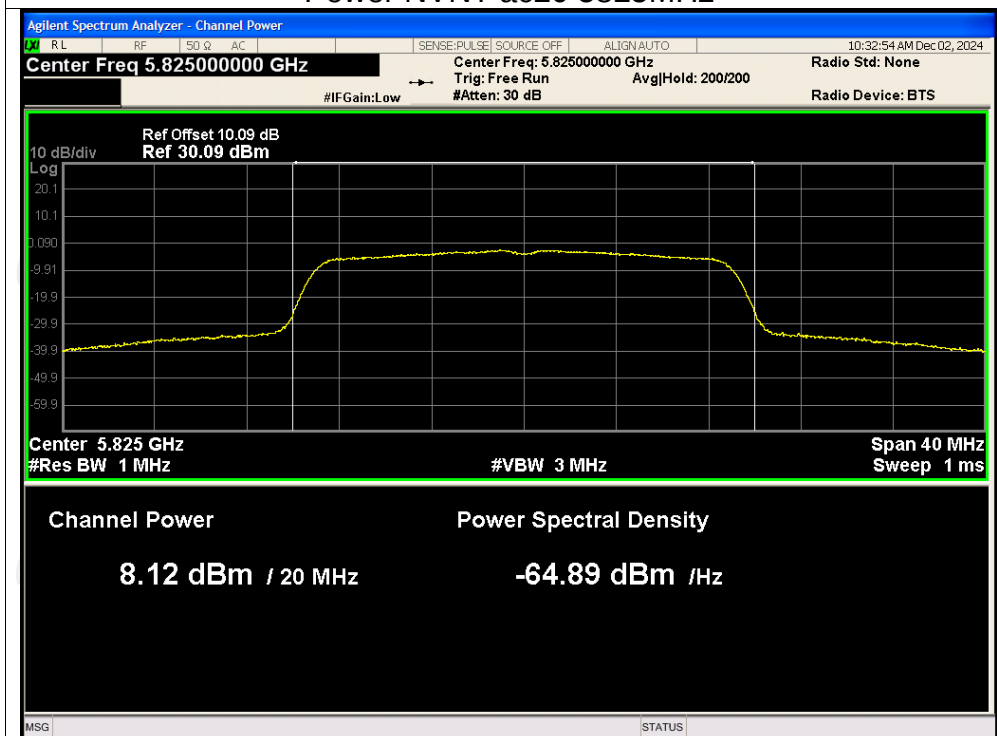
Power NVNT ac20 5745MHz



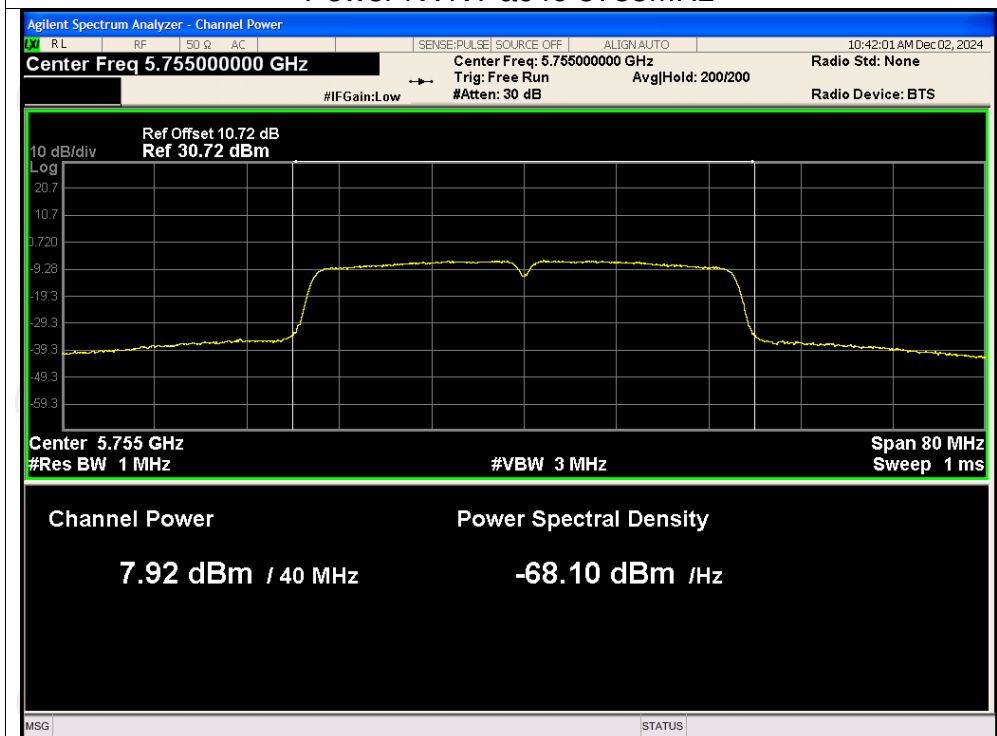
Power NVNT ac20 5785MHz

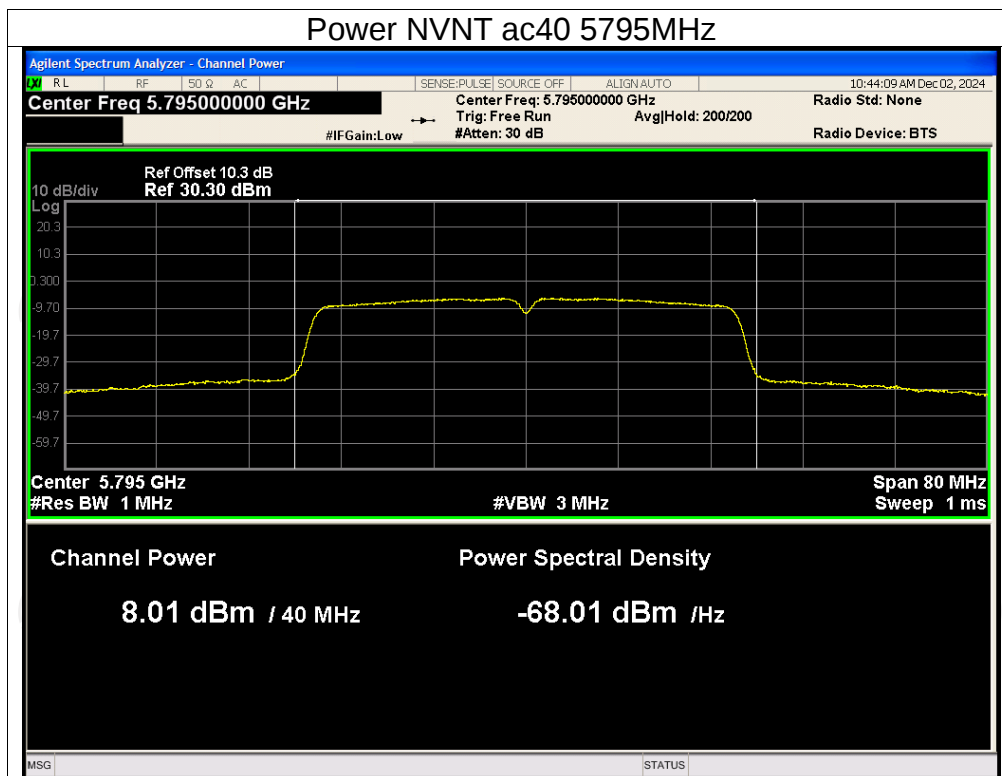


Power NVNT ac20 5825MHz



Power NVNT ac40 5755MHz



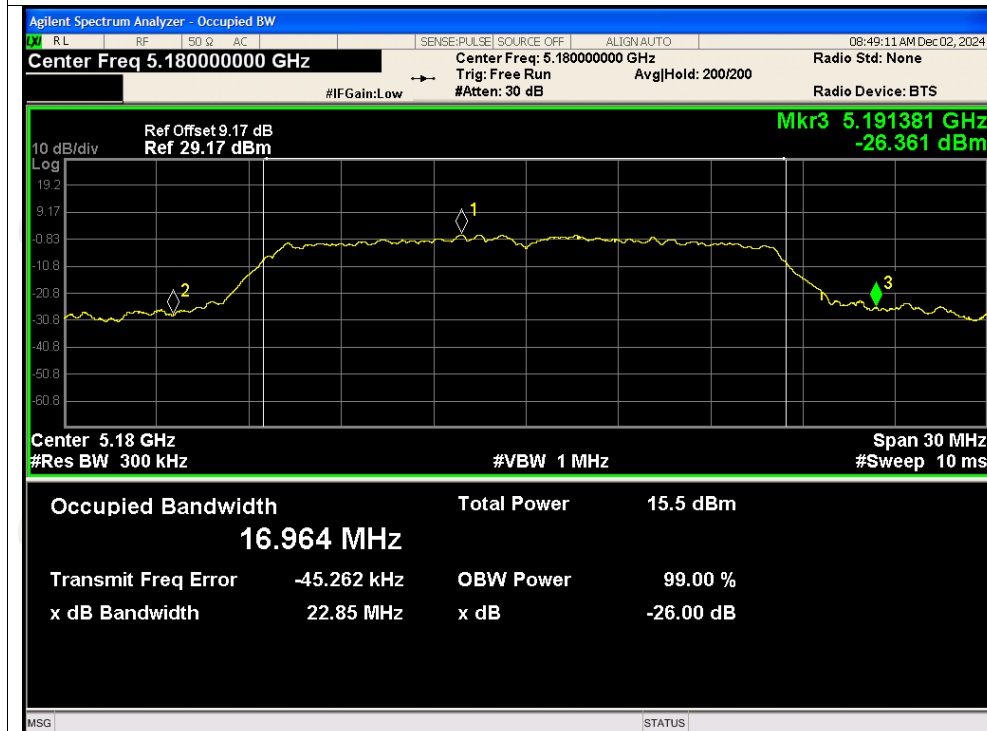


-26dB Bandwidth

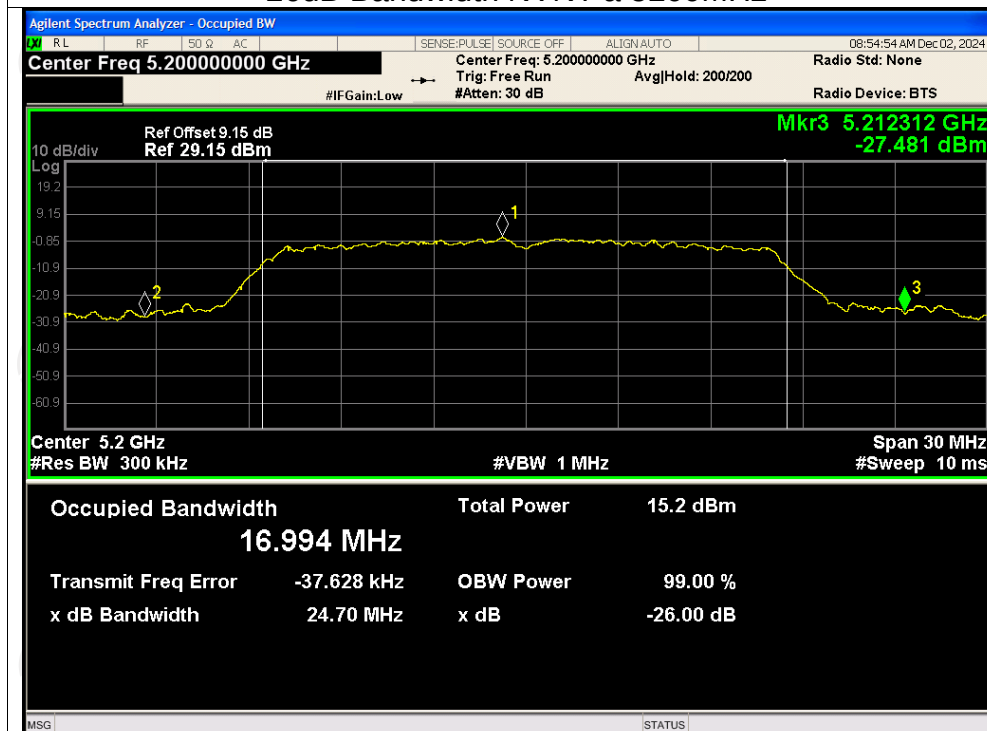
Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	22.853	Pass
NVNT	a	5200	24.699	Pass
NVNT	a	5240	25.443	Pass
NVNT	n20	5180	21.902	Pass
NVNT	n20	5200	27.337	Pass
NVNT	n20	5240	28.124	Pass
NVNT	n40	5190	55.155	Pass
NVNT	n40	5230	58.336	Pass
NVNT	ac20	5180	26.053	Pass
NVNT	ac20	5200	26.838	Pass
NVNT	ac20	5240	22.533	Pass
NVNT	ac40	5190	57.432	Pass
NVNT	ac40	5230	57.845	Pass

Test Graphs

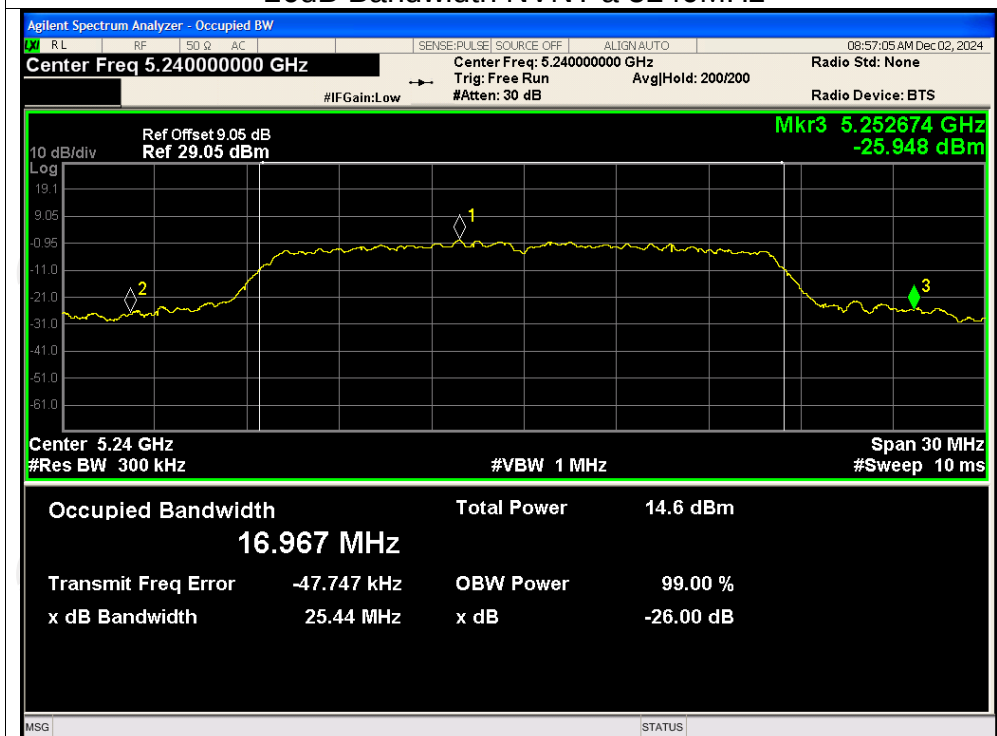
-26dB Bandwidth NVNT a 5180MHz



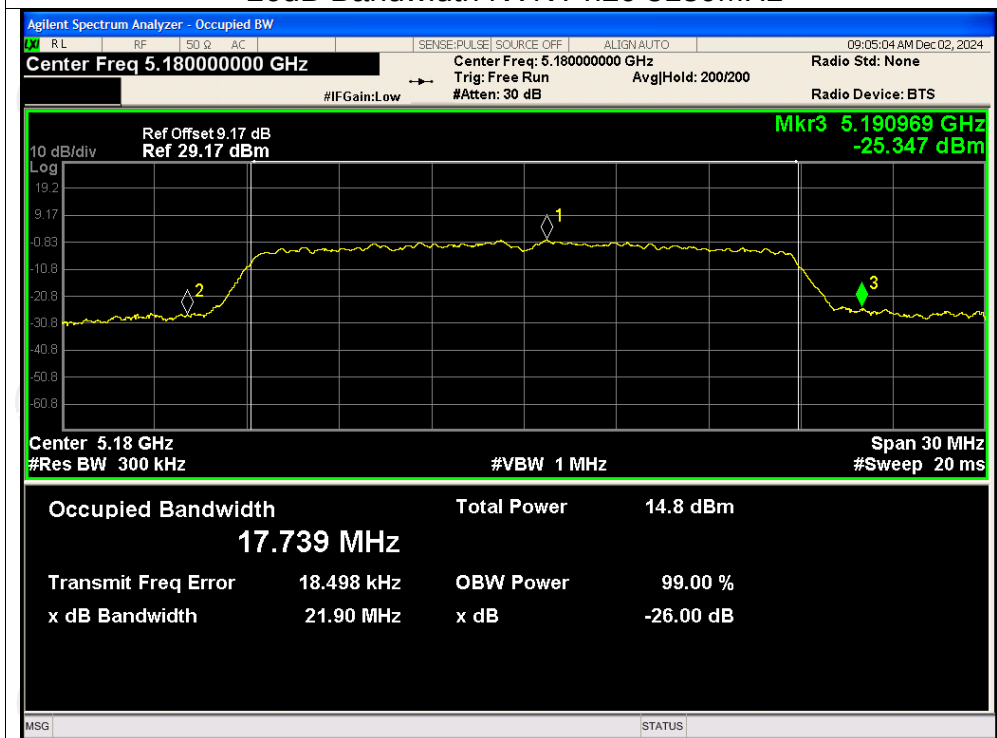
-26dB Bandwidth NVNT a 5200MHz



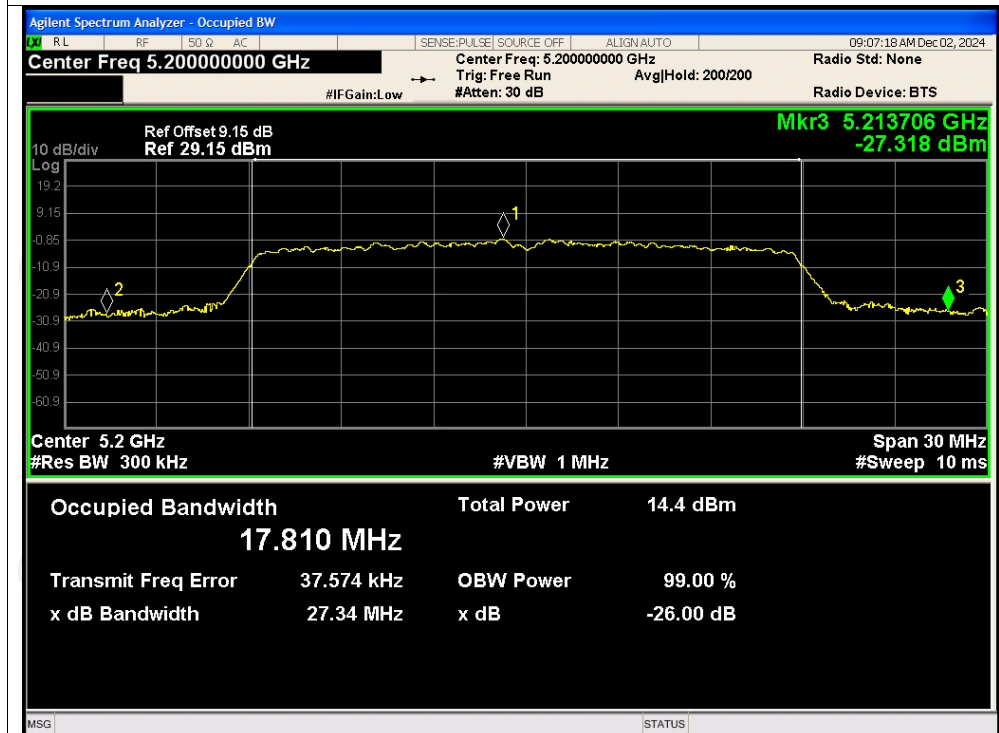
-26dB Bandwidth NVNT a 5240MHz



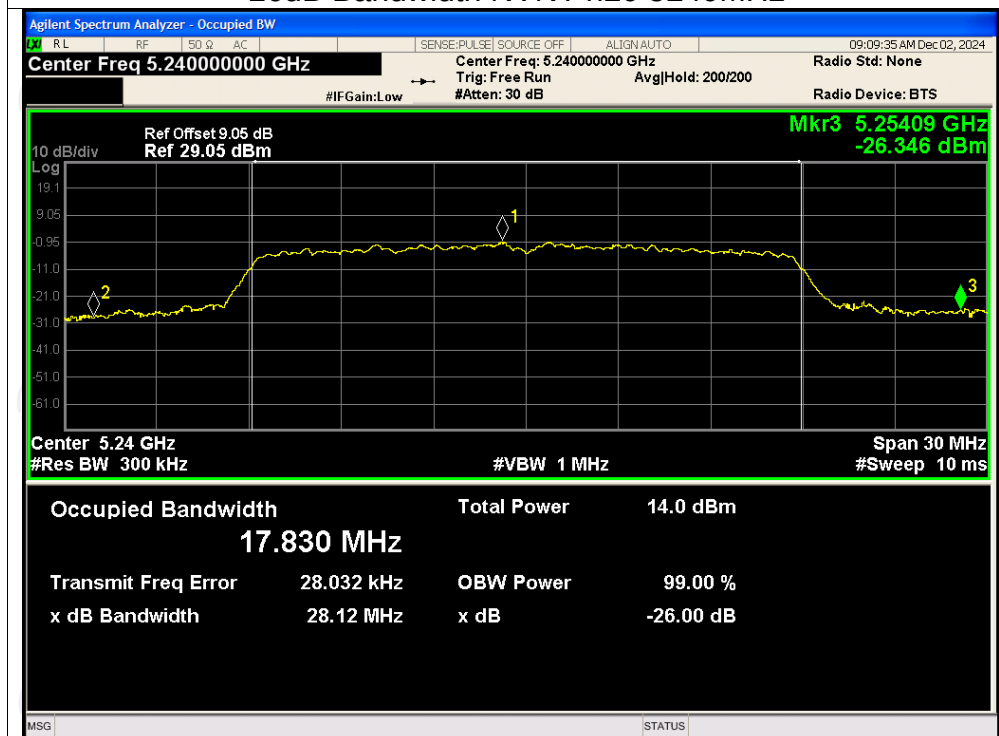
-26dB Bandwidth NVNT n20 5180MHz



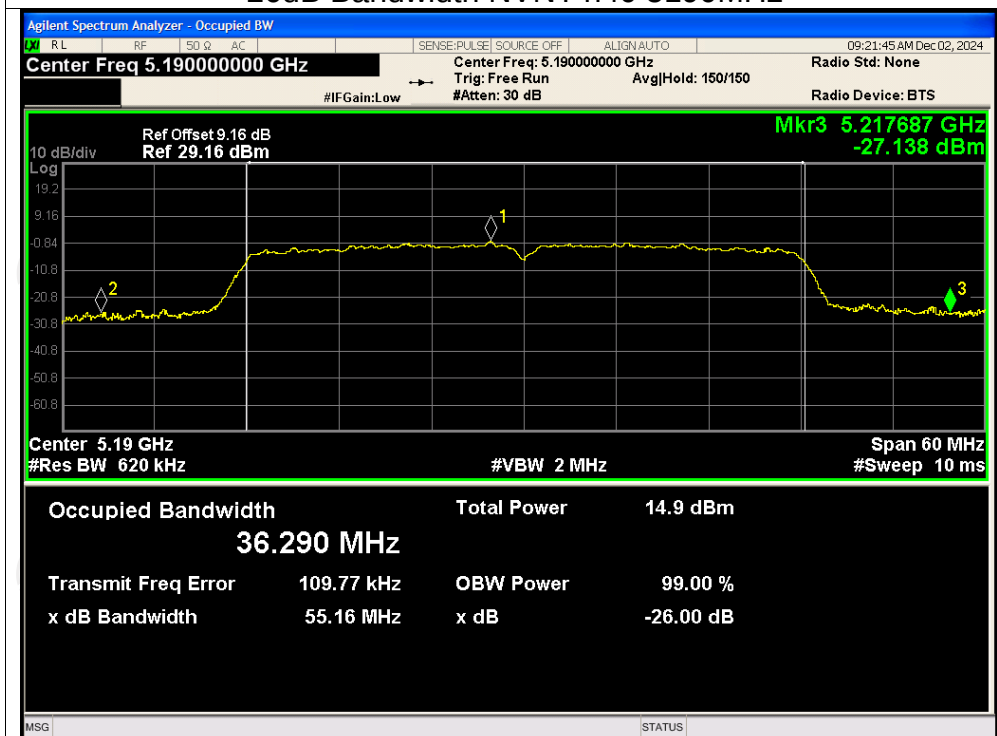
-26dB Bandwidth NVNT n20 5200MHz



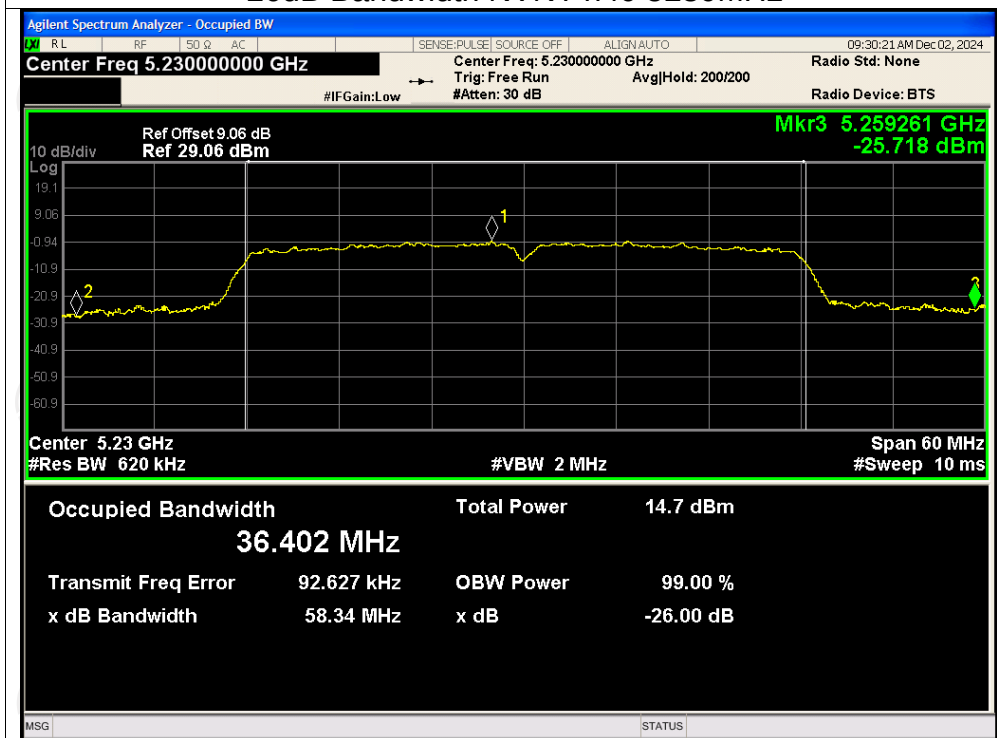
-26dB Bandwidth NVNT n20 5240MHz



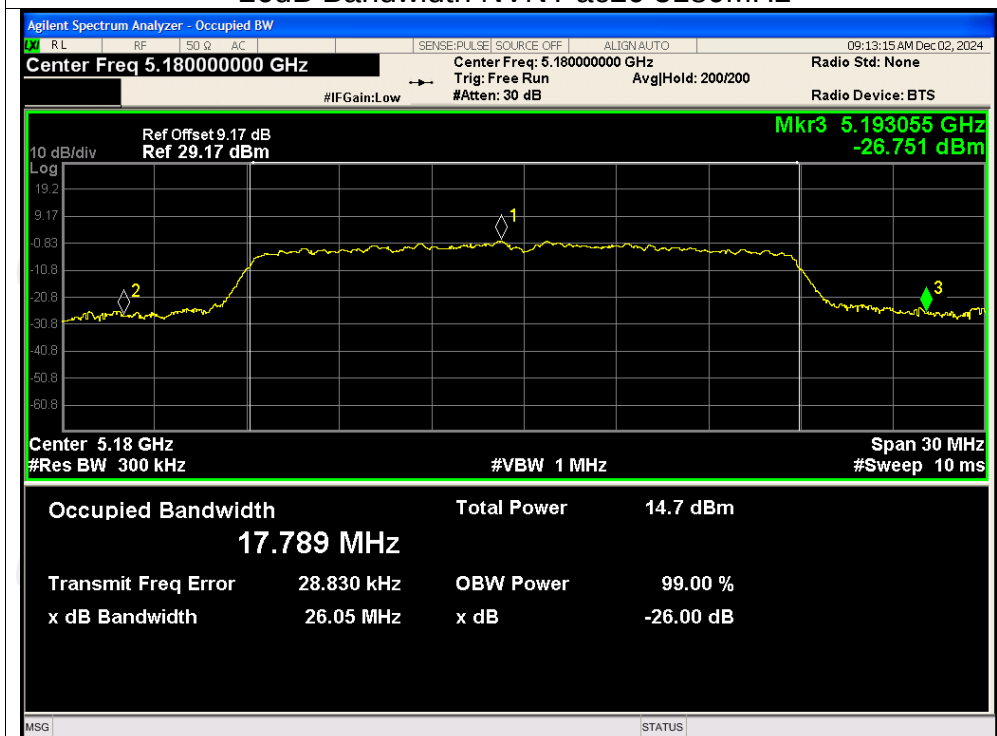
-26dB Bandwidth NVNT n40 5190MHz



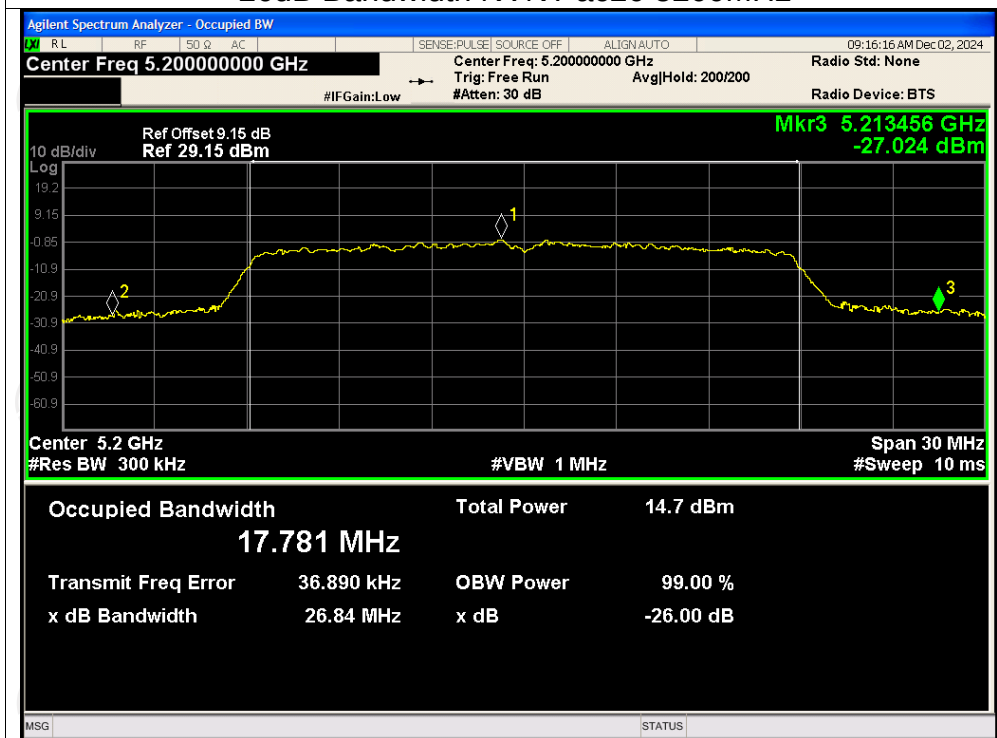
-26dB Bandwidth NVNT n40 5230MHz



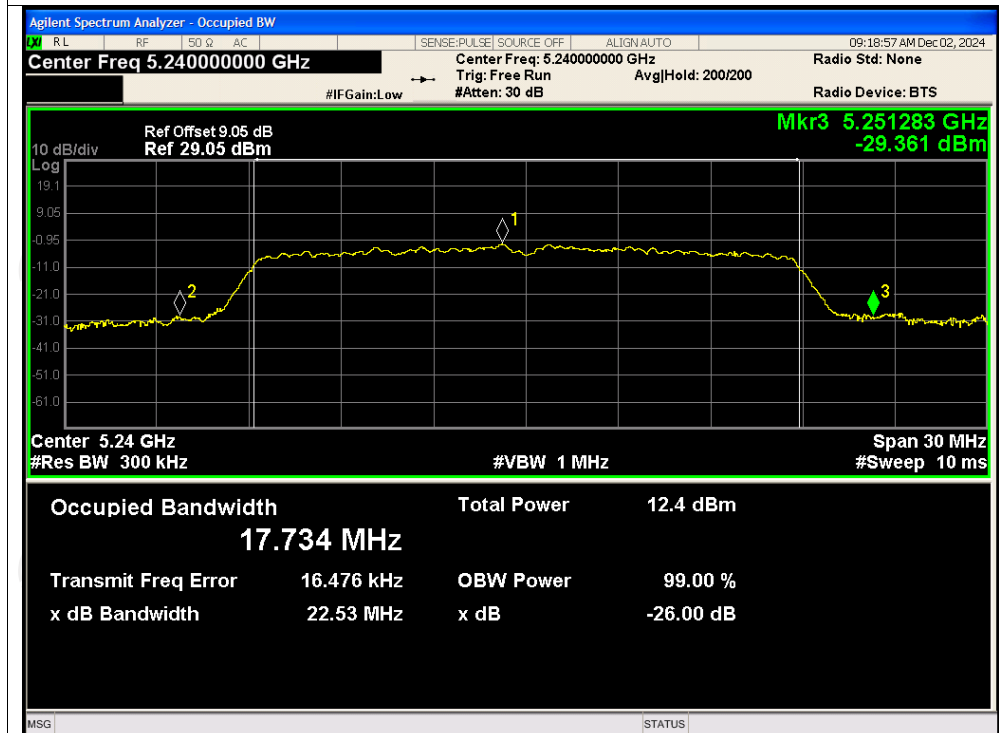
-26dB Bandwidth NVNT ac20 5180MHz



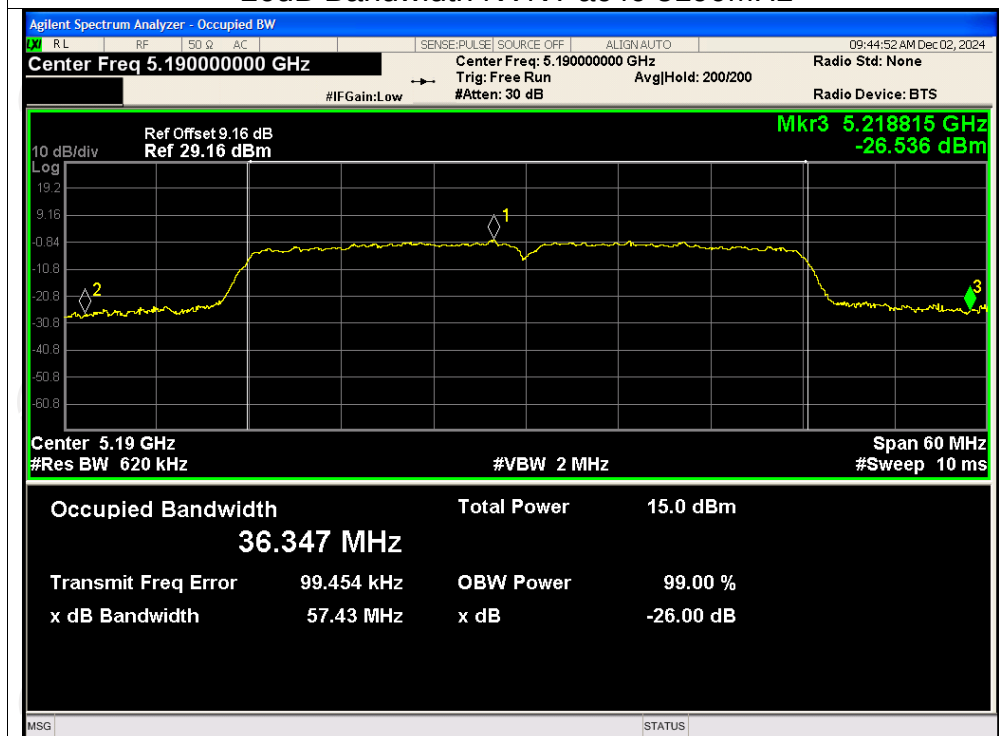
-26dB Bandwidth NVNT ac20 5200MHz

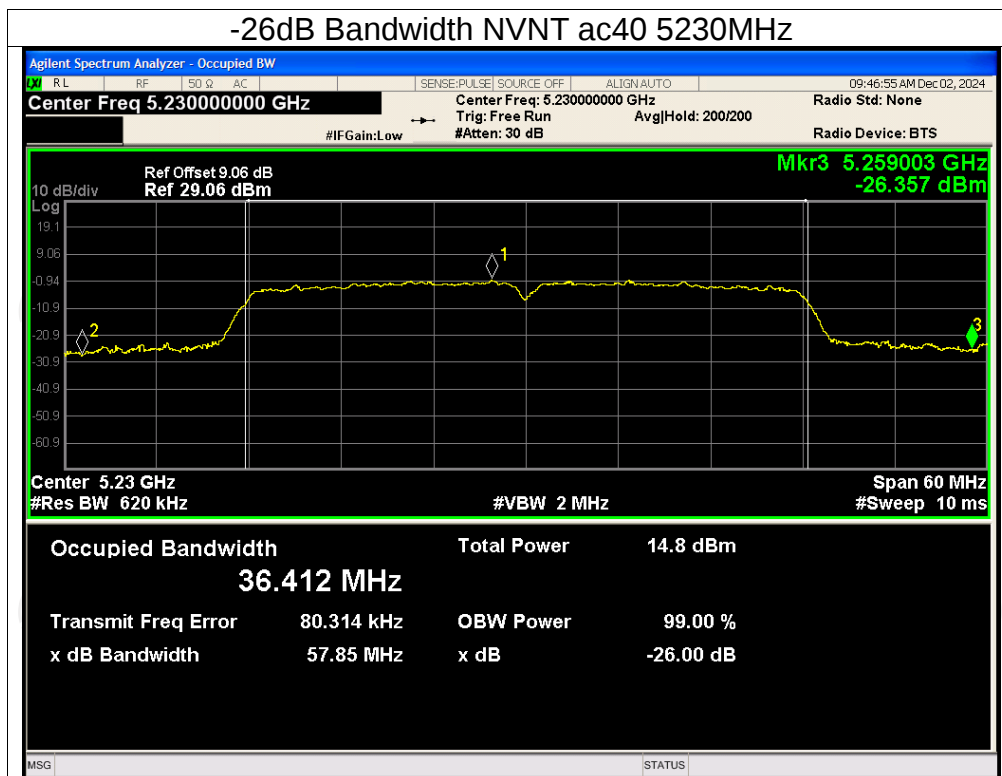


-26dB Bandwidth NVNT ac20 5240MHz



-26dB Bandwidth NVNT ac40 5190MHz



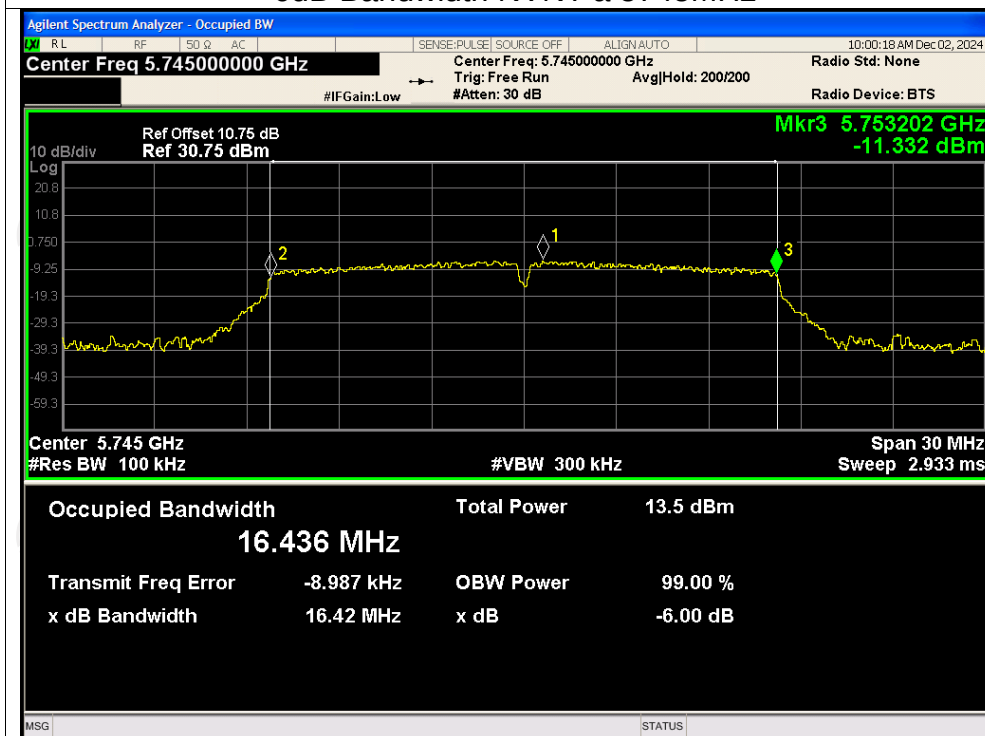


-6dB Bandwidth

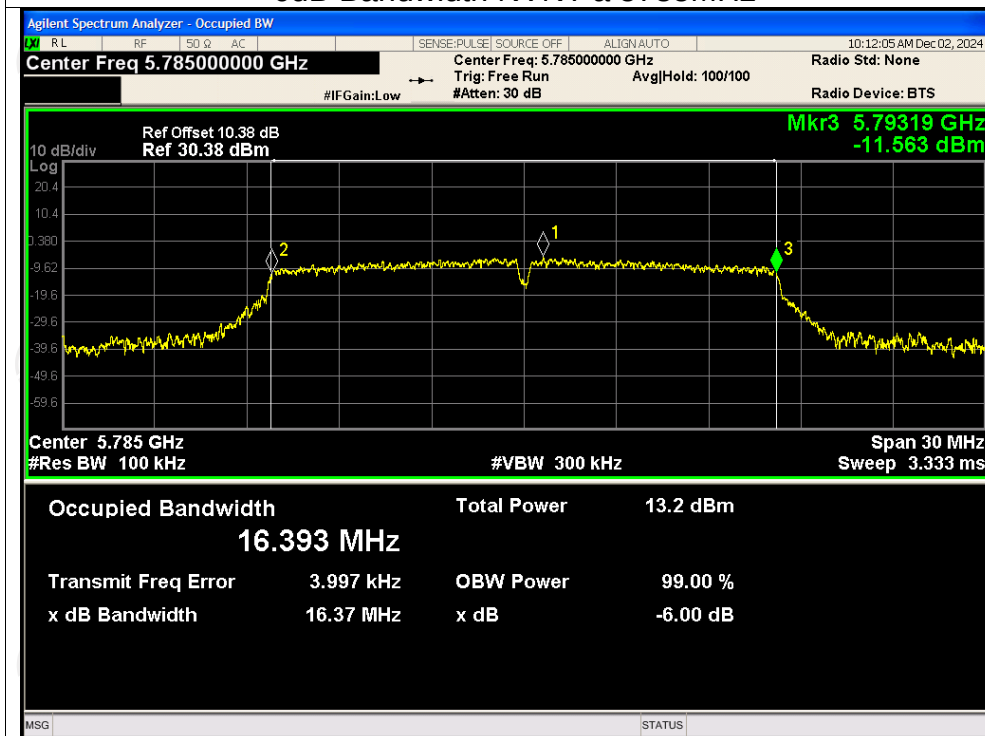
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	16.422	0.5	Pass
NVNT	a	5785	16.372	0.5	Pass
NVNT	a	5825	16.398	0.5	Pass
NVNT	n20	5745	17.637	0.5	Pass
NVNT	n20	5785	17.624	0.5	Pass
NVNT	n20	5825	17.606	0.5	Pass
NVNT	n40	5755	36.409	0.5	Pass
NVNT	n40	5795	36.336	0.5	Pass
NVNT	ac20	5745	17.619	0.5	Pass
NVNT	ac20	5785	17.634	0.5	Pass
NVNT	ac20	5825	17.634	0.5	Pass
NVNT	ac40	5755	36.345	0.5	Pass
NVNT	ac40	5795	36.387	0.5	Pass

Test Graphs

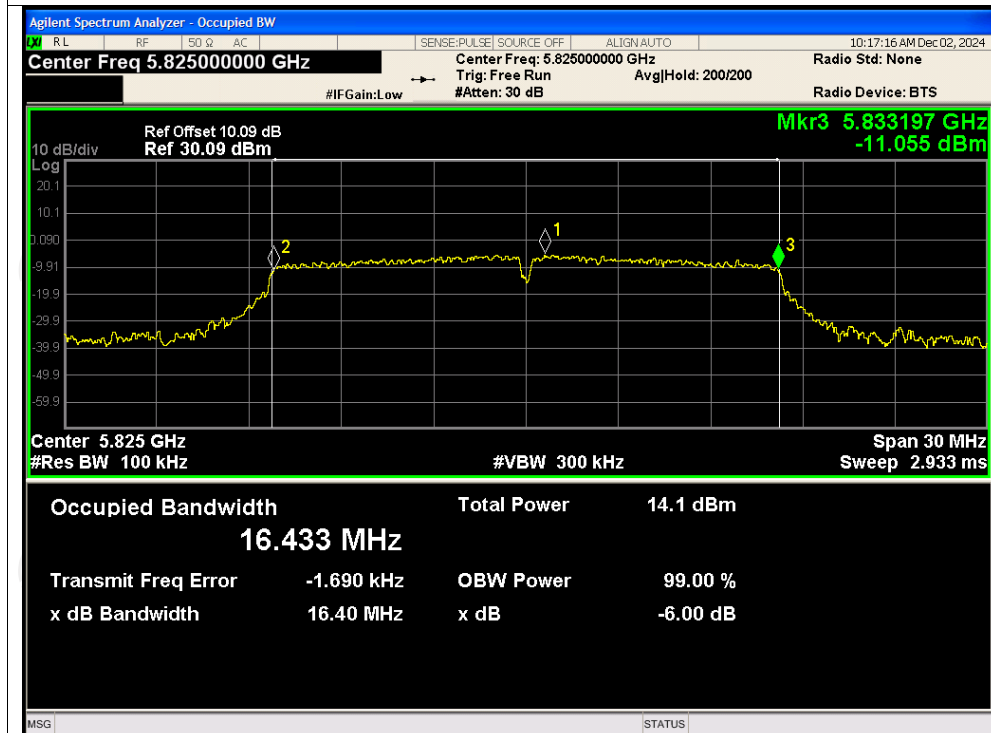
-6dB Bandwidth NVNT a 5745MHz



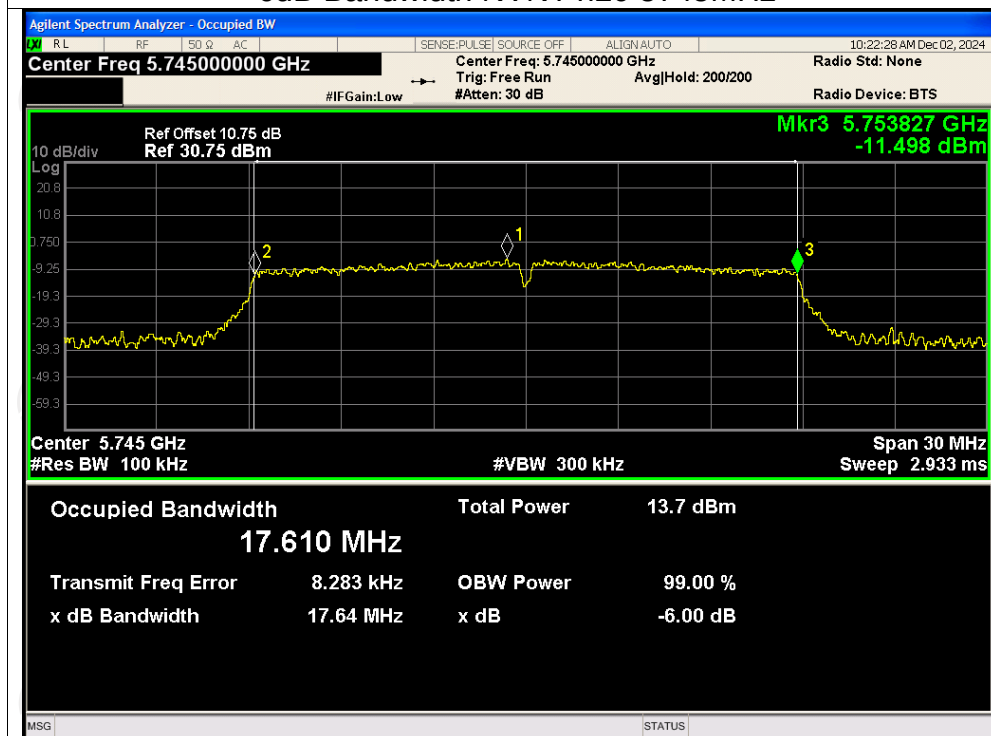
-6dB Bandwidth NVNT a 5785MHz



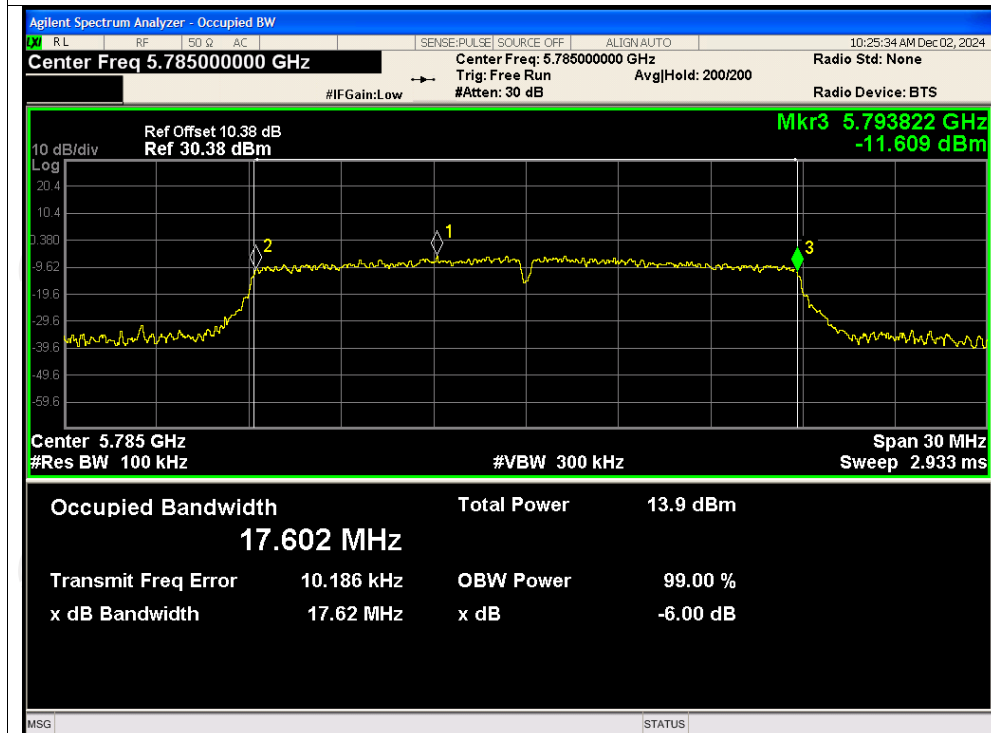
-6dB Bandwidth NVNT a 5825MHz



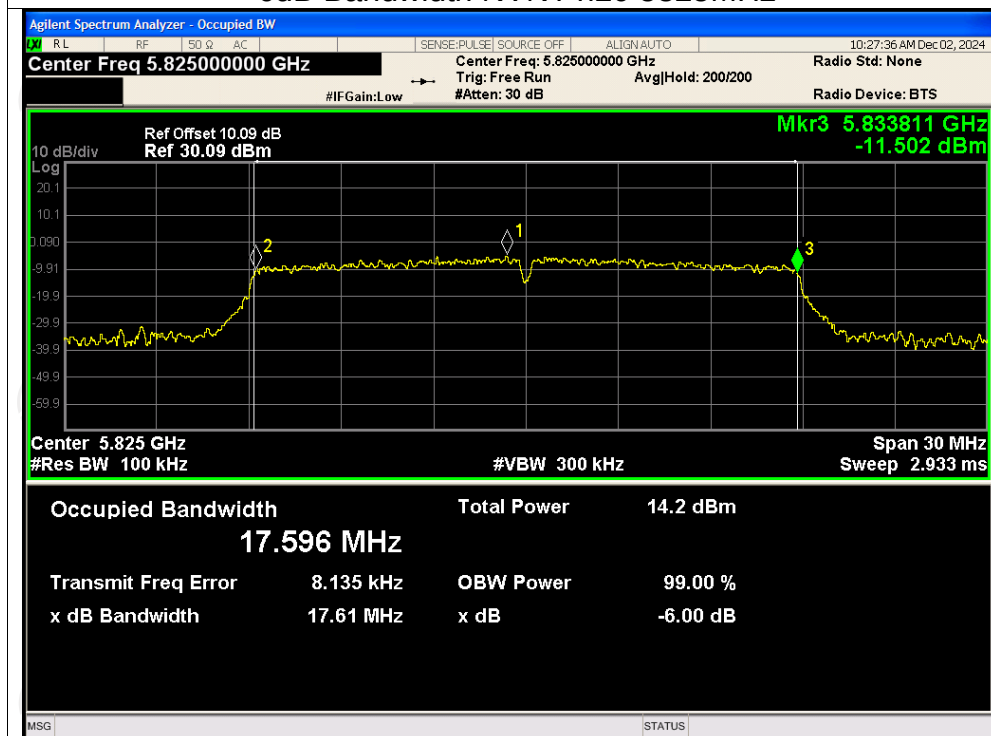
-6dB Bandwidth NVNT n20 5745MHz



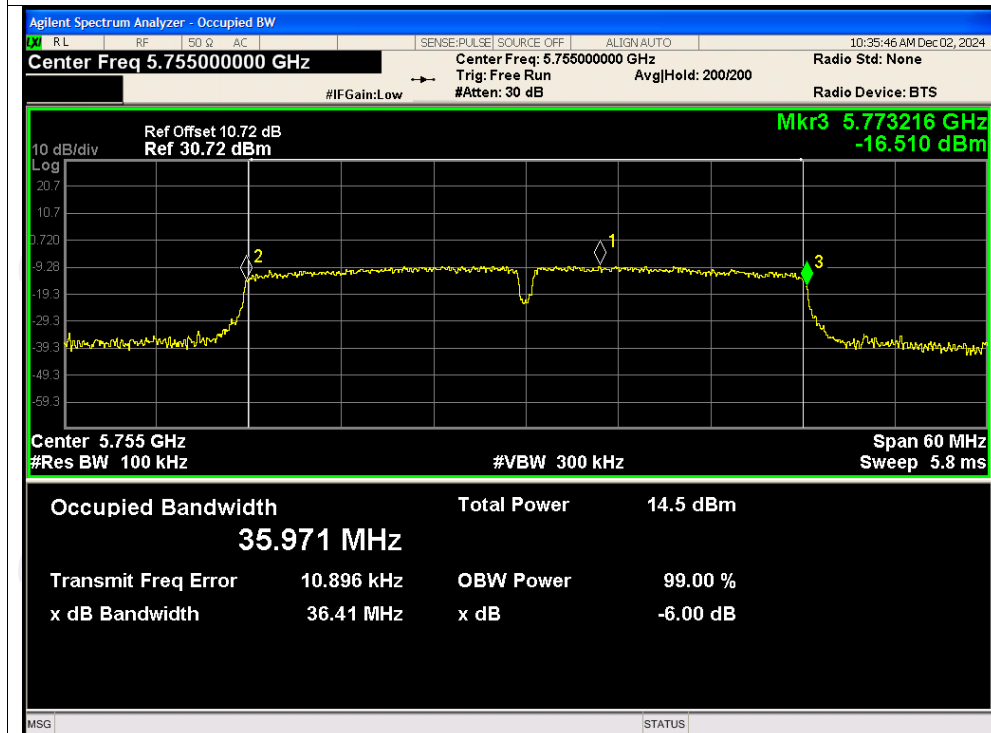
-6dB Bandwidth NVNT n20 5785MHz



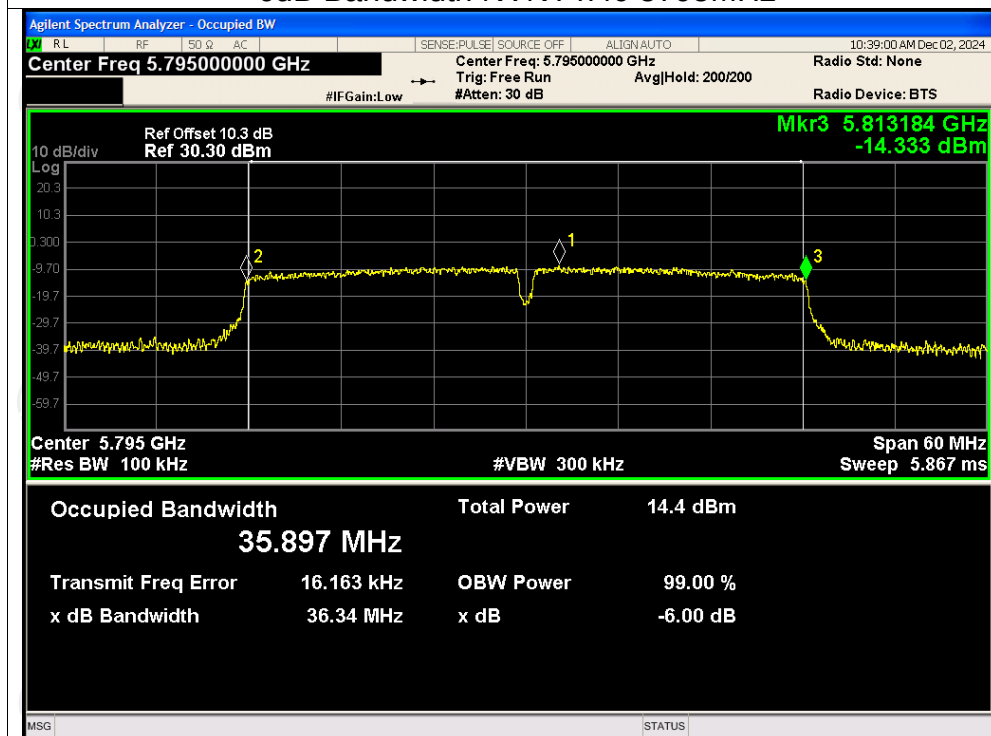
-6dB Bandwidth NVNT n20 5825MHz



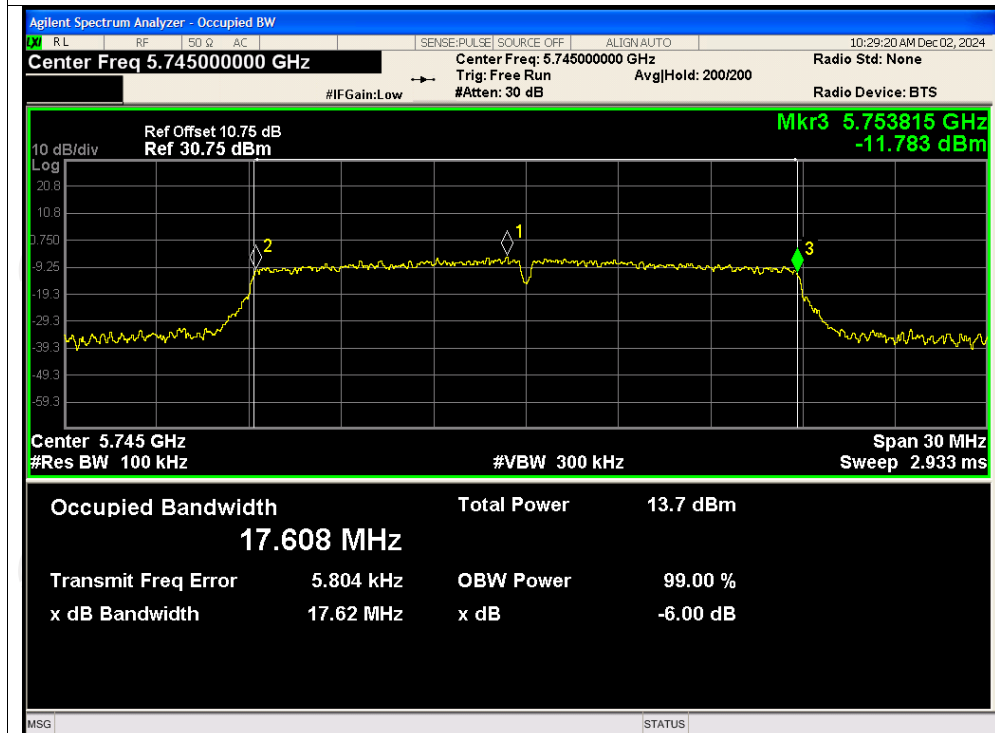
-6dB Bandwidth NVNT n40 5755MHz



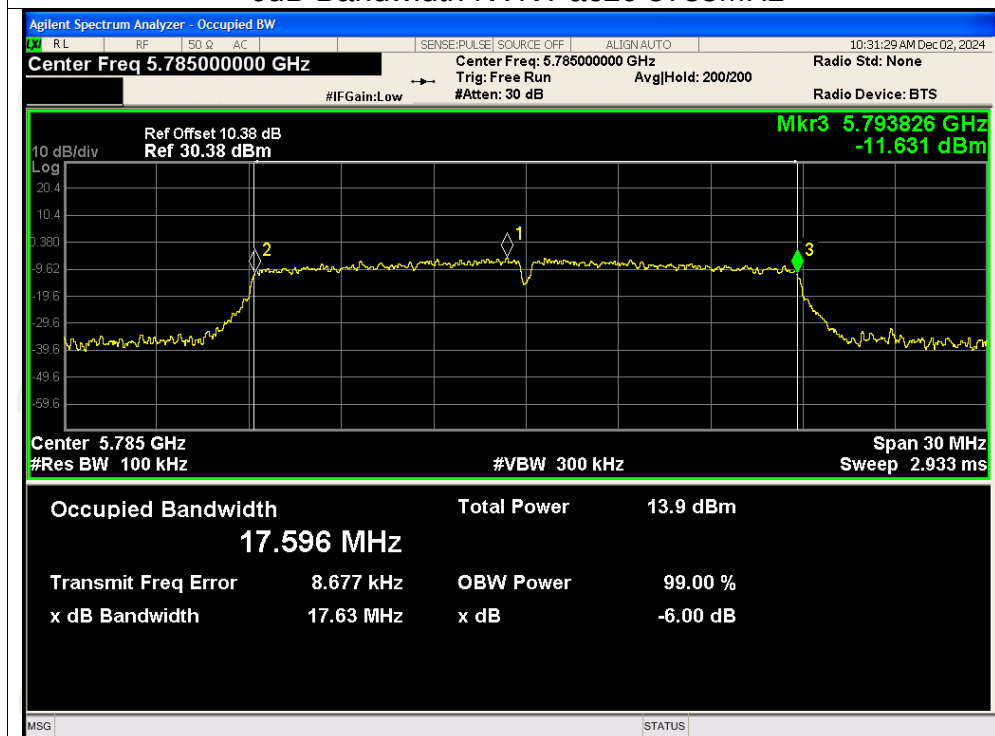
-6dB Bandwidth NVNT n40 5795MHz



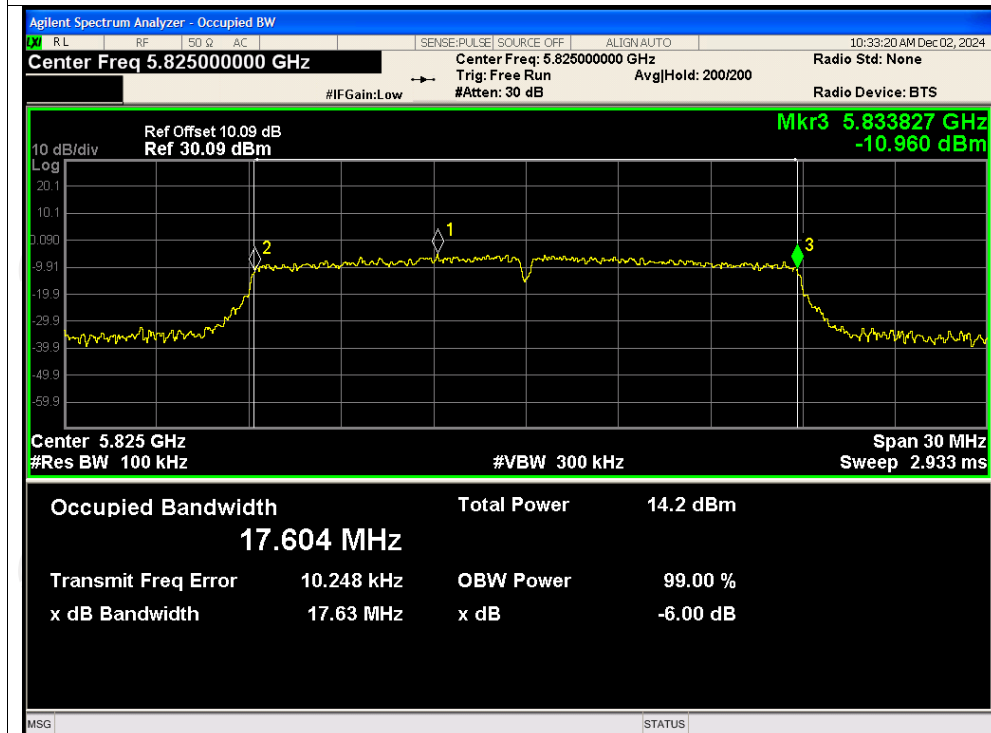
-6dB Bandwidth NVNT ac20 5745MHz



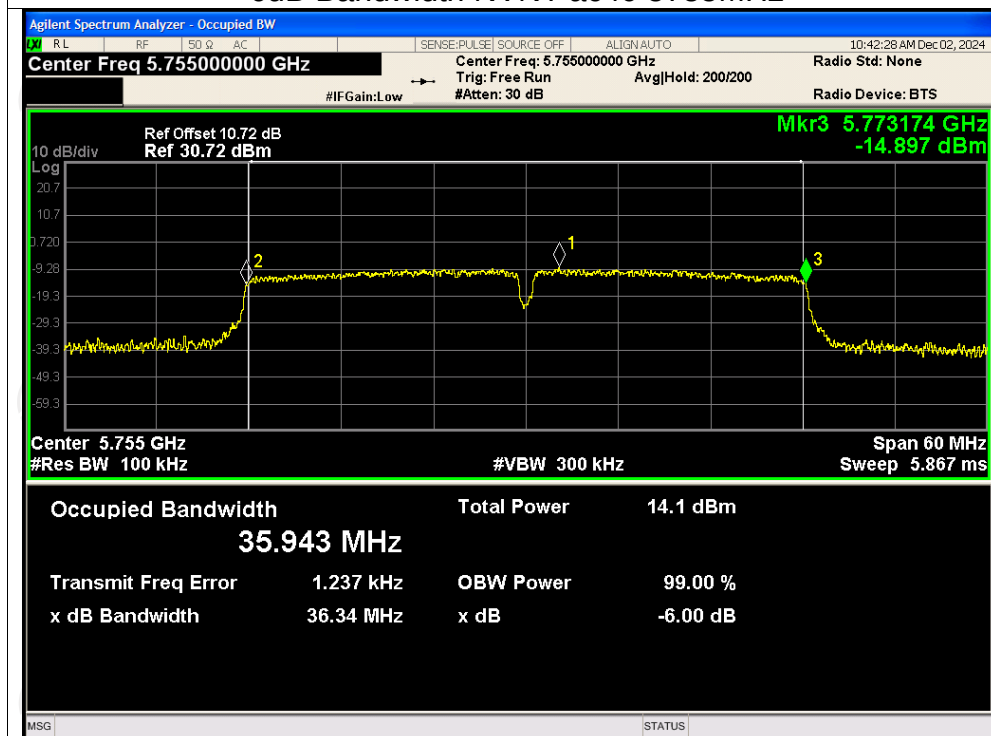
-6dB Bandwidth NVNT ac20 5785MHz

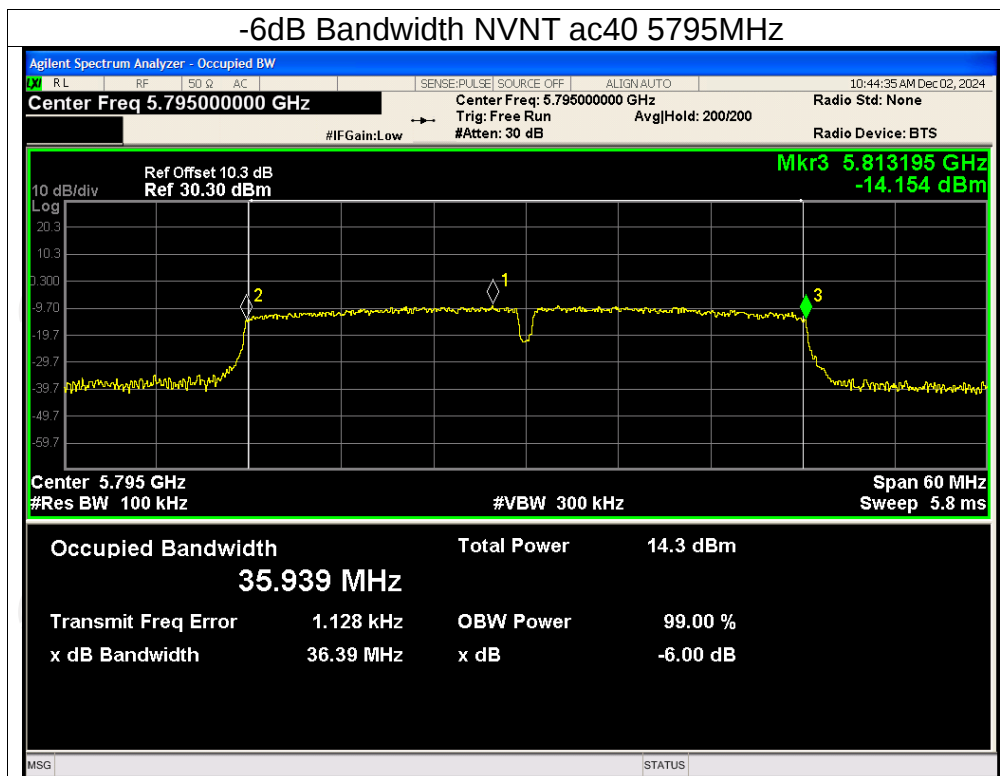


-6dB Bandwidth NVNT ac20 5825MHz



-6dB Bandwidth NVNT ac40 5755MHz





Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5180	16.704
NVNT	a	5200	16.759
NVNT	a	5240	16.742
NVNT	n20	5180	17.665
NVNT	n20	5200	17.723
NVNT	n20	5240	17.755
NVNT	n40	5190	36.103
NVNT	n40	5230	36.187
NVNT	ac20	5180	17.710
NVNT	ac20	5200	17.701
NVNT	ac20	5240	17.658
NVNT	ac40	5190	36.150
NVNT	ac40	5230	36.200
NVNT	a	5745	16.712
NVNT	a	5785	16.619
NVNT	a	5825	16.629
NVNT	n20	5745	17.638
NVNT	n20	5785	17.627
NVNT	n20	5825	17.633
NVNT	n40	5755	36.039
NVNT	n40	5795	35.974
NVNT	ac20	5745	17.650
NVNT	ac20	5785	17.628
NVNT	ac20	5825	17.644
NVNT	ac40	5755	35.981
NVNT	ac40	5795	35.987