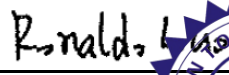
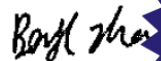


TEST REPORT

FCC ID..... :	2BLTAACW1303A	
Test Report No..... :	TCT241230E035	
Date of issue..... :	Jan. 03, 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..... :	EWIC PHILIPPINES INC.	
Address..... :	BLDG NOS 7&8 S BLK 2 LOT 2 EZP WAREHOUSE, LAGUNA TECHNOPARK ANNEX, BARANGAY BO BINAN, BINAN, Philippines	
Manufacturer's name ... :	EWIC PHILIPPINES INC.	
Address..... :	BLDG NOS 7&8 S BLK 2 LOT 2 EZP WAREHOUSE, LAGUNA TECHNOPARK ANNEX, BARANGAY BO BINAN, BINAN, Philippines	
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..... :	INDOOR CAMERA	
Trade Mark :	N/A	
Model/Type reference..... :	A-CW1303A, CW1303A, K10, K100	
Rating(s)..... :	Refer to EUT description of page 3	
Date of receipt of test item :	Dec.30, 2024	
Date (s) of performance of test..... :	Dec.30, 2024 ~ Jan. 03, 2025	
Tested by (+signature) ... :	Ronaldo LUO	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

General disclaimer:

This report shall not be reproduced except in full, without the written approval of SHENZHEN TONGCE TESTING LAB. This document may be altered or revised by SHENZHEN TONGCE TESTING LAB personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

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1. General Product Information

1.1. EUT description

Product Name.....:	INDOOR CAMERA
Model/Type reference.....:	A-CW1303A
Sample Number.....:	TCT241230E004-0101
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 802.11ax: 20MHz, 40MHz
Modulation Technology	Orthogonal Frequency Division Multiplexing (OFDM)
Modulation Type.....:	256QAM, 64QAM, 16QAM, BPSK, QPSK
Antenna Type.....:	Metal Antenna
Antenna Gain.....:	Band 1: 4.81dBi Band 3: 4.88dBi
Rating(s).....:	Adapter Information 1: MODEL: BS05A-0501000US INPUT: AC 100-240V, 50/60Hz, 0.25A Max OUTPUT: DC 5V, 1000mA Adapter Information 2: MODEL: SA0101-0501000UA INPUT: AC 100-240V, 50/60Hz, 0.35A Max OUTPUT: DC 5.0V, 1.0A, 5.0W

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	A-CW1303A	☒
Other models	CW1303A, K10, K100	☐

Note: A-CW1303A is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names, image pixel or product appearance color. So the test data of A-CW1303A 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:	22.8 °C	21.8 °C
Humidity:	49 % RH	49 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Software:		
Software Information:	putty	
Power Level:	16	
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
802.11ax(HE20)	6.5Mbps
802.11ax(HE40)	13.5Mbps

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

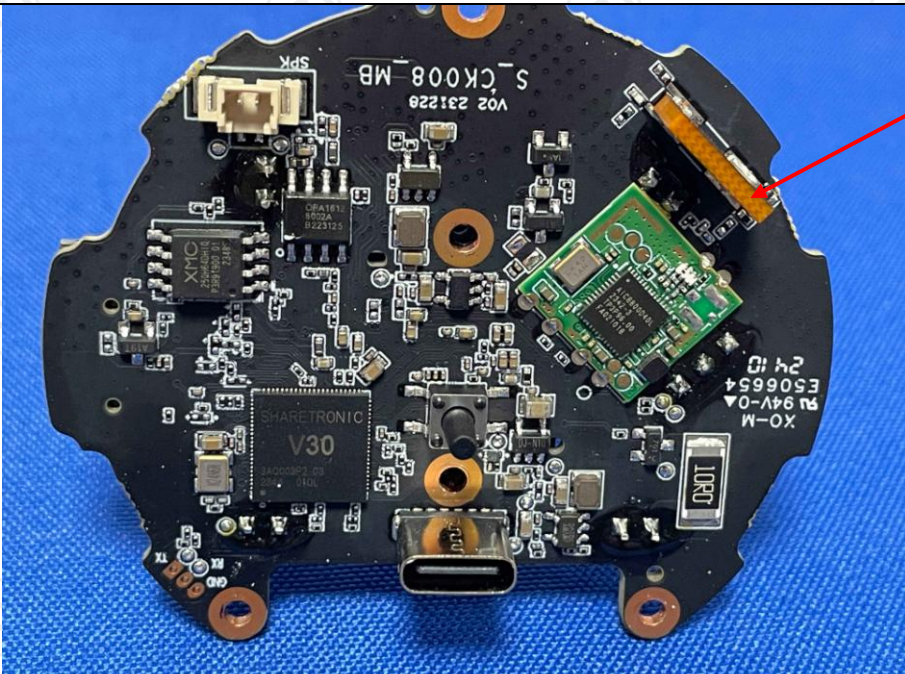
4.3. Measurement Uncertainty

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 metal antenna which permanently attached, and the best case gain of the antenna is 4.88dBi of Band 3.	
	

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 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														

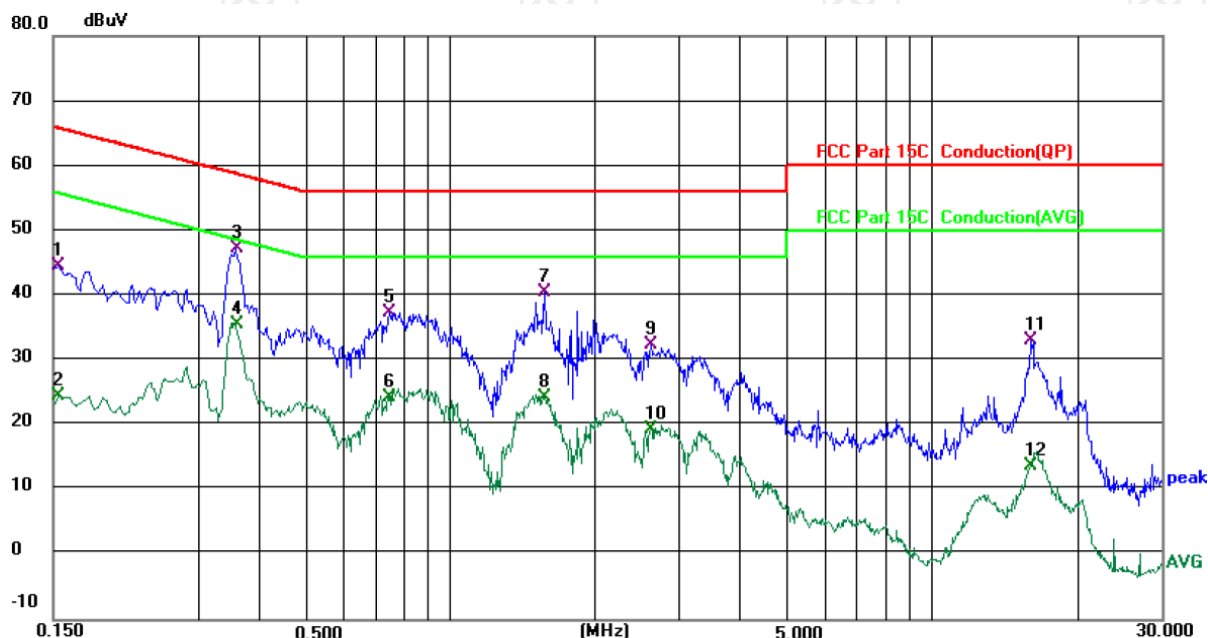
5.2.2. Test Instruments

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: 22.8 (°C)

Humidity: 49 %

Limit: FCC Part 15C Conduction(QP)

Power: AC 120 V/60 Hz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1539	34.87	9.67	44.54	65.79	-21.25	QP	
2		0.1539	14.89	9.67	24.56	55.79	-31.23	AVG	
3	*	0.3579	37.22	10.01	47.23	58.78	-11.55	QP	
4		0.3579	25.45	10.01	35.46	48.78	-13.32	AVG	
5		0.7500	26.94	10.45	37.39	56.00	-18.61	QP	
6		0.7500	13.97	10.45	24.42	46.00	-21.58	AVG	
7		1.5700	30.64	9.80	40.44	56.00	-15.56	QP	
8		1.5700	14.56	9.80	24.36	46.00	-21.64	AVG	
9		2.6179	22.41	9.92	32.33	56.00	-23.67	QP	
10		2.6179	9.44	9.92	19.36	46.00	-26.64	AVG	
11		16.0900	22.84	10.28	33.12	60.00	-26.88	QP	
12		16.0900	3.38	10.28	13.66	50.00	-36.34	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

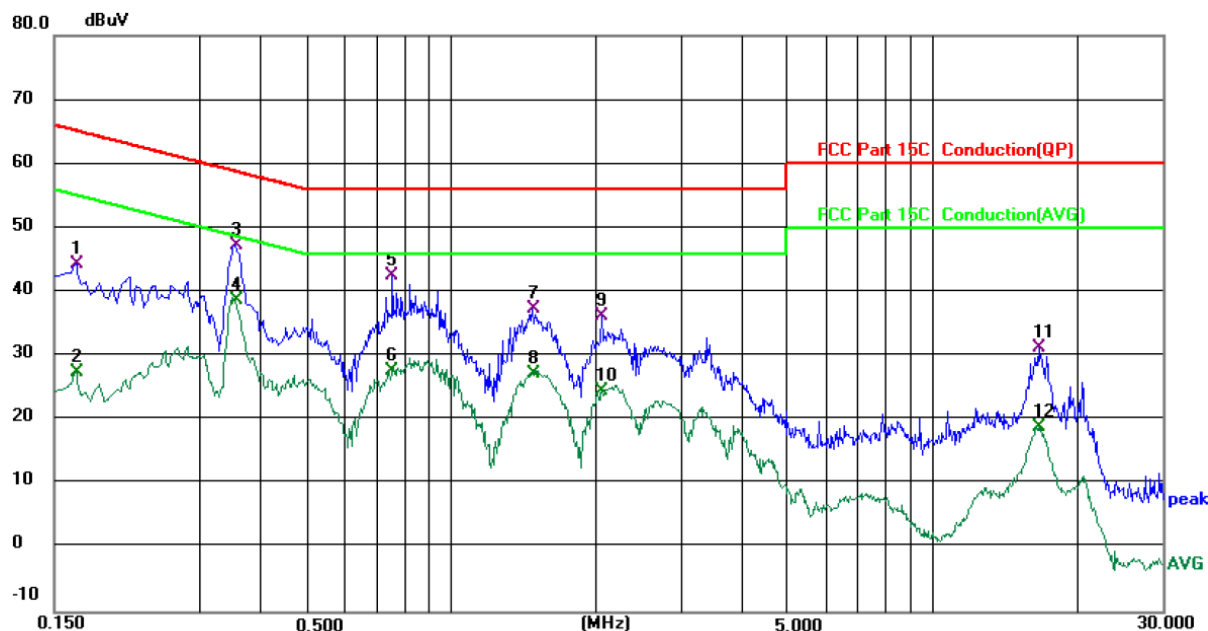
Margin (dB) = Measurement (dBμV) – Limits (dBμV)

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 (°C)

Humidity: 49 %

Limit: FCC Part 15C Conduction(QP)

Power: AC 120 V/60 Hz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1660	34.69	9.64	44.33	65.16	-20.83	QP	
2		0.1660	17.90	9.64	27.54	55.16	-27.62	AVG	
3		0.3540	37.29	9.98	47.27	58.87	-11.60	QP	
4	*	0.3540	28.81	9.98	38.79	48.87	-10.08	AVG	
5		0.7580	32.20	10.44	42.64	56.00	-13.36	QP	
6		0.7580	17.34	10.44	27.78	46.00	-18.22	AVG	
7		1.4780	27.51	9.75	37.26	56.00	-18.74	QP	
8		1.4780	17.50	9.75	27.25	46.00	-18.75	AVG	
9		2.0579	26.48	9.81	36.29	56.00	-19.71	QP	
10		2.0579	14.67	9.81	24.48	46.00	-21.52	AVG	
11		16.5940	21.10	10.24	31.34	60.00	-28.66	QP	
12		16.5940	8.74	10.24	18.98	50.00	-31.02	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), 802.11ax(HE20), 802.11ax(HE40) and the worst case Mode (Lowest channel and 802.11b) was submitted only. And the test data in this project is powered by adapter 1 which is in the worse case.

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										

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

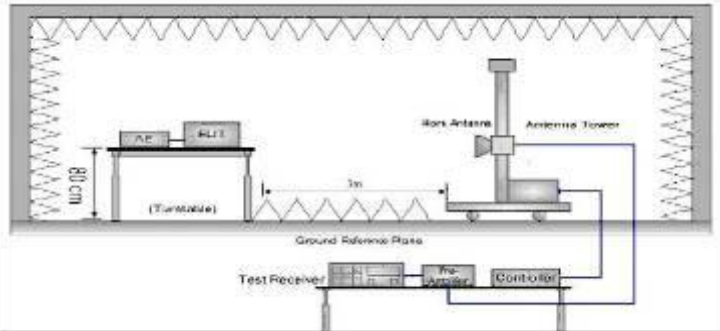
Test Requirement:	FCC Part15 E Section 15.407 (a)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F
Limit:	≤11.00dBm/MHz for Band 1 5150MHz-5250MHz(client device) ≤11.00dBm/MHz for Band 2A&2C 5250-5350&5470-5725 ≤30.00dBm/500KHz 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 ≥ 3*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: <table><tr><th>Frequency (MHz)</th><th>Limit (dBm/MHz)</th><th>Frequency (MHz)</th><th>Limit (dBm/MHz)</th></tr><tr><td>< 5650</td><td>-27</td><td>5850~5855</td><td>27~15.6</td></tr><tr><td>5650~5700</td><td>-27~10</td><td>5855~5875</td><td>15.6~10</td></tr><tr><td>5700~5720</td><td>10~15.6</td><td>5875~5925</td><td>10~-27</td></tr><tr><td>5720~5725</td><td>15.6~27</td><td>> 5925</td><td>-27</td></tr></table> E[dBμV/m] = EIRP[dBm] + 95.2 @3m In restricted band: <table><tr><th>Detector</th><th>Limit@3m</th></tr><tr><td>Peak</td><td>74dBμV/m</td></tr><tr><td>AVG</td><td>54dBμV/m</td></tr></table>	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	Detector	Limit@3m	Peak	74dBμV/m	AVG	54dBμV/m
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																								
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																										

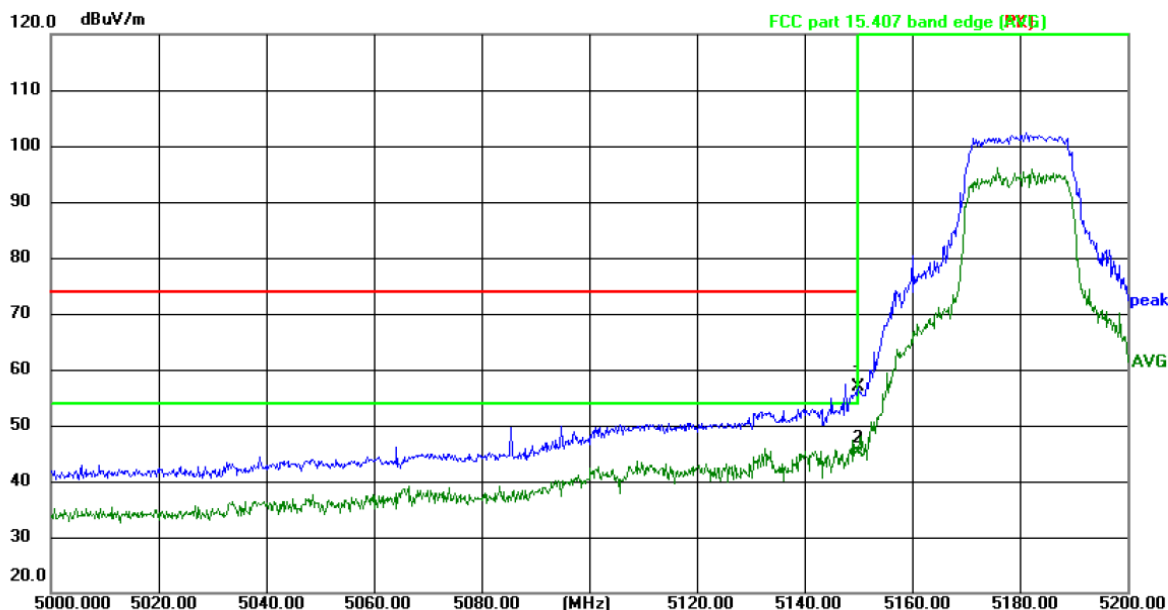
	Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as 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_EMCC	FA-03A2 RE+	1.1.4.2	/

5.7.3. Test Data

AX20-5180

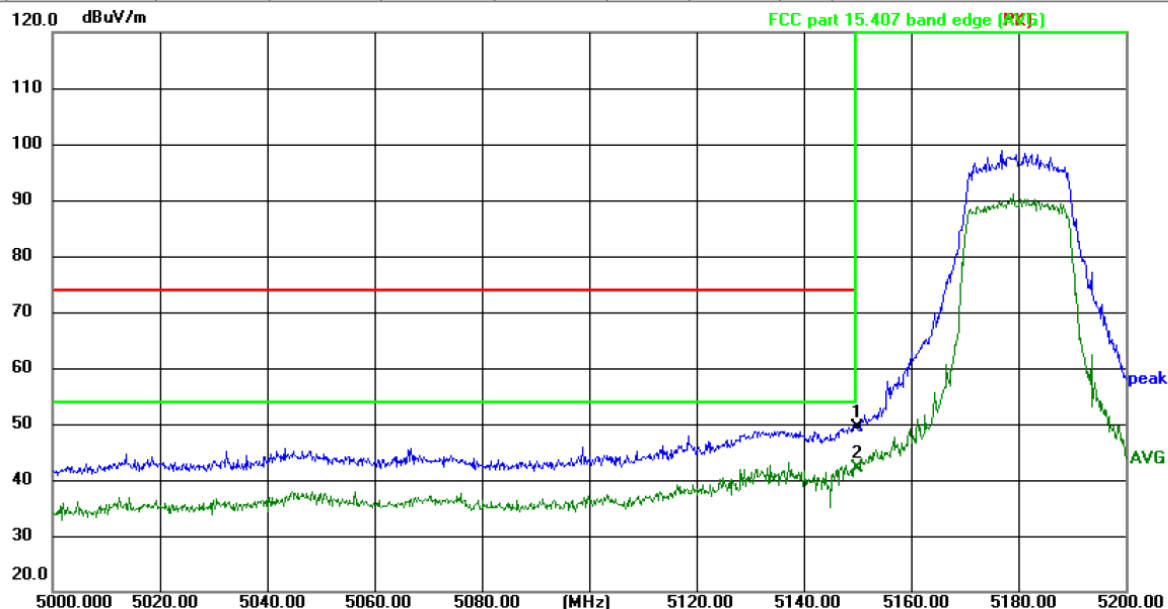


Site: 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 22.3(C) Humidity: 40 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	65.42	-8.59	56.83	74.00	-17.17	peak	P	
2 *	5150.000	53.61	-8.59	45.02	54.00	-8.98	AVG	P	



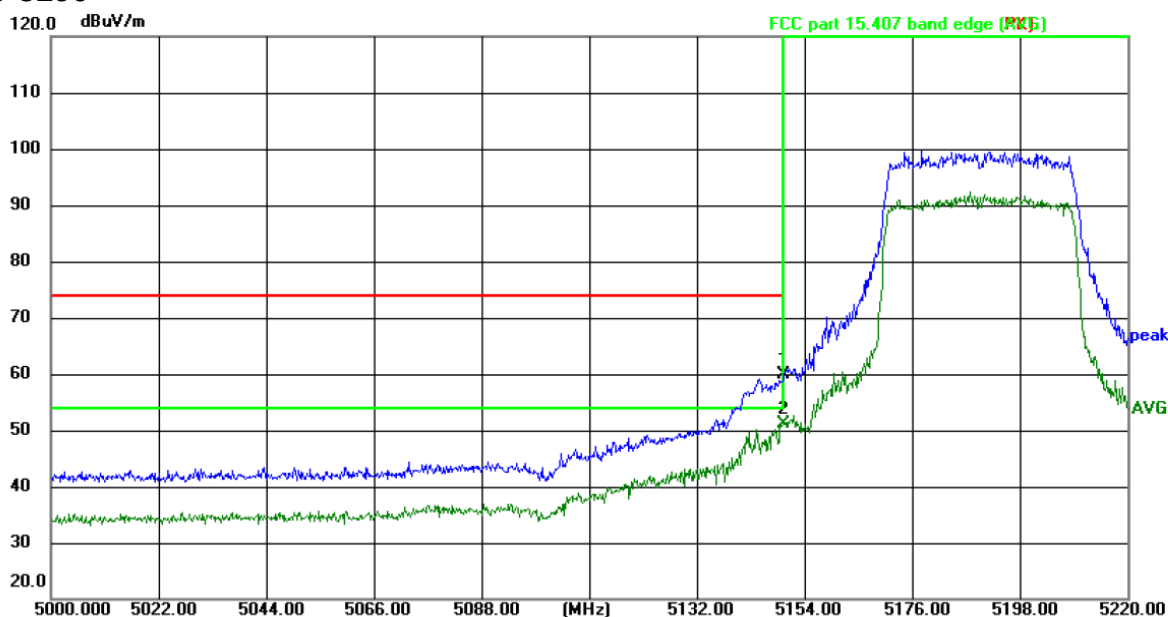
Site: 3m Anechoic Chamber Polarization: **Vertical** Temperature: 22.3(C) Humidity: 40 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	57.85	-8.59	49.26	74.00	-24.74	peak	P	
2 *	5150.000	50.77	-8.59	42.18	54.00	-11.82	AVG	P	

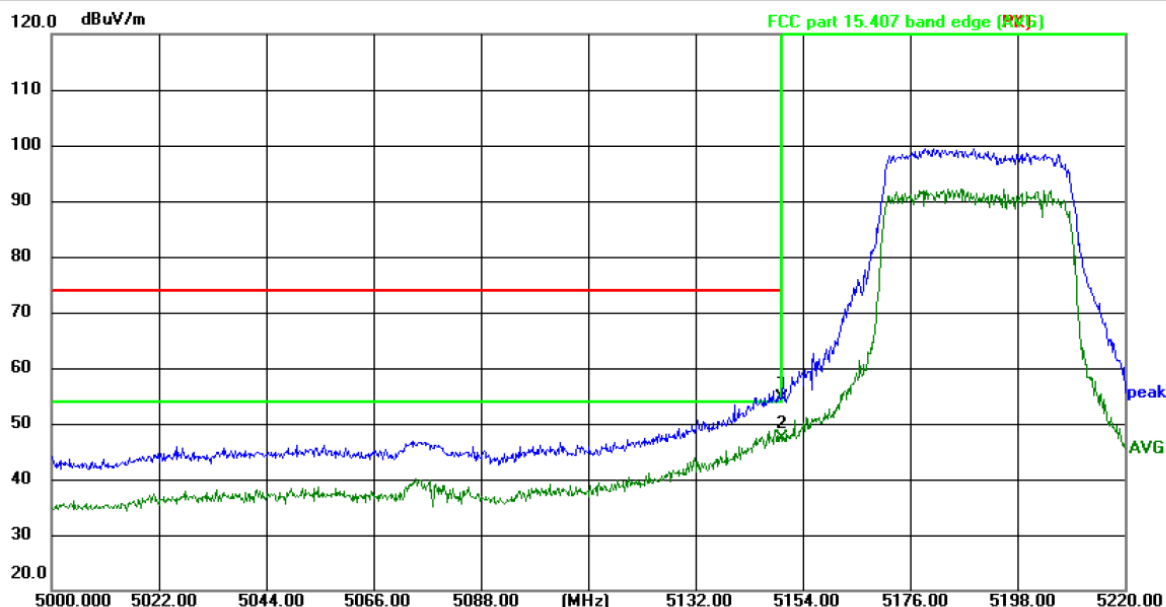
AX40-5190



Site: 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 22.3(°C) Humidity: 40 %

Limit: FCC part 15.407 band edge (PK) Power: AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	68.41	-8.59	59.82	74.00	-14.18	peak	P	
2 *	5150.000	59.66	-8.59	51.07	54.00	-2.93	AVG	P	

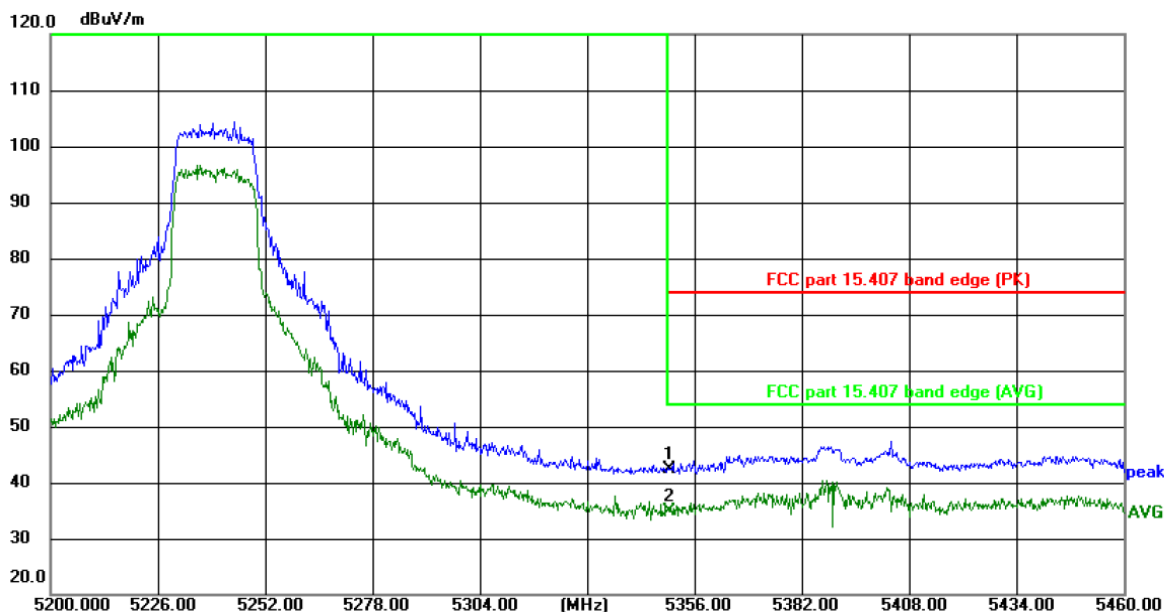


Site: 3m Anechoic Chamber Polarization: **Vertical** Temperature: 22.3(°C) Humidity: 40 %

Limit: FCC part 15.407 band edge (PK) Power: AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	63.12	-8.59	54.53	74.00	-19.47	peak	P	
2 *	5150.000	55.85	-8.59	47.26	54.00	-6.74	AVG	P	

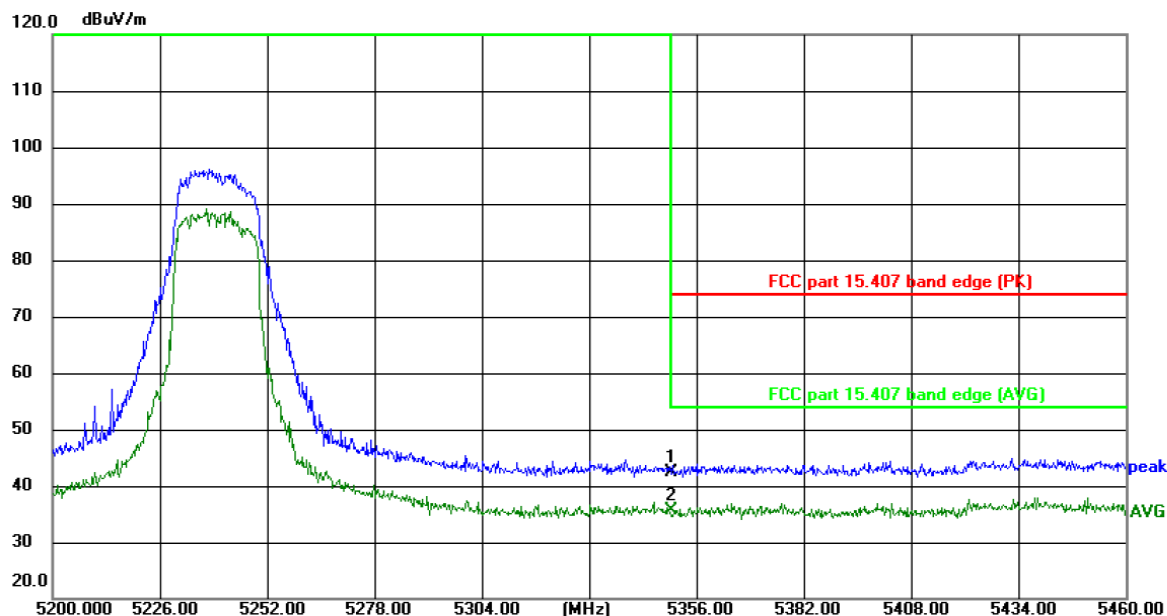
AX20-5240



Site: 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 22.3(°C) Humidity: 40 %

Limit: FCC part 15.407 band edge (PK) Power: AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	50.45	-7.95	42.50	74.00	-31.50	peak	P	
2 *	5350.000	42.72	-7.95	34.77	54.00	-19.23	AVG	P	

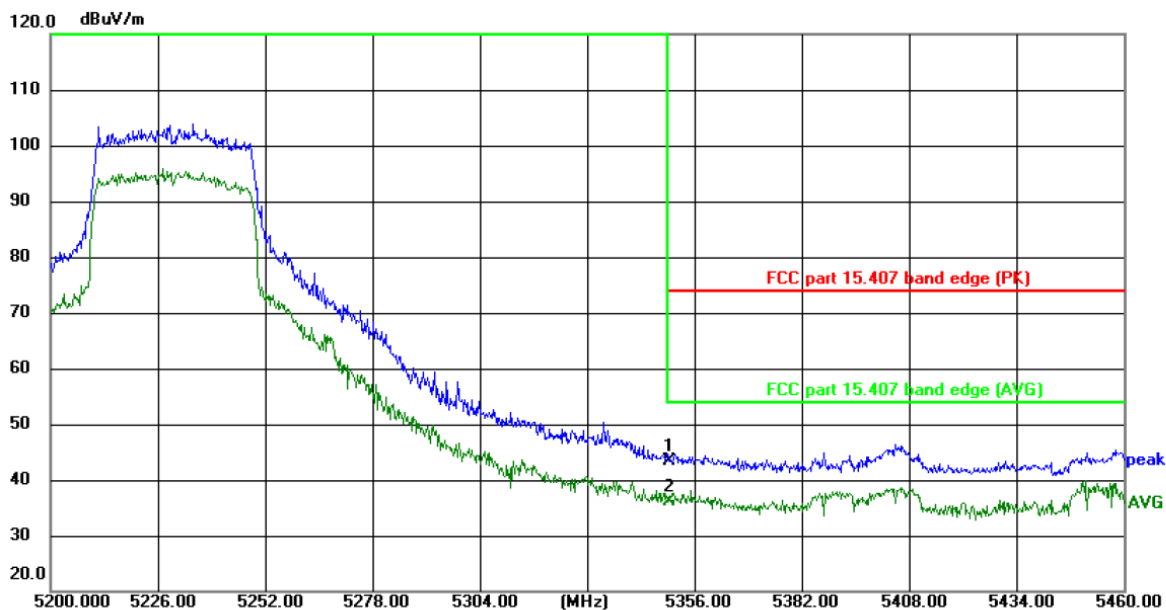


Site: 3m Anechoic Chamber Polarization: **Vertical** Temperature: 22.3(°C) Humidity: 40 %

Limit: FCC part 15.407 band edge (PK) Power: AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	50.22	-7.95	42.27	74.00	-31.73	peak	P	
2 *	5350.000	43.68	-7.95	35.73	54.00	-18.27	AVG	P	

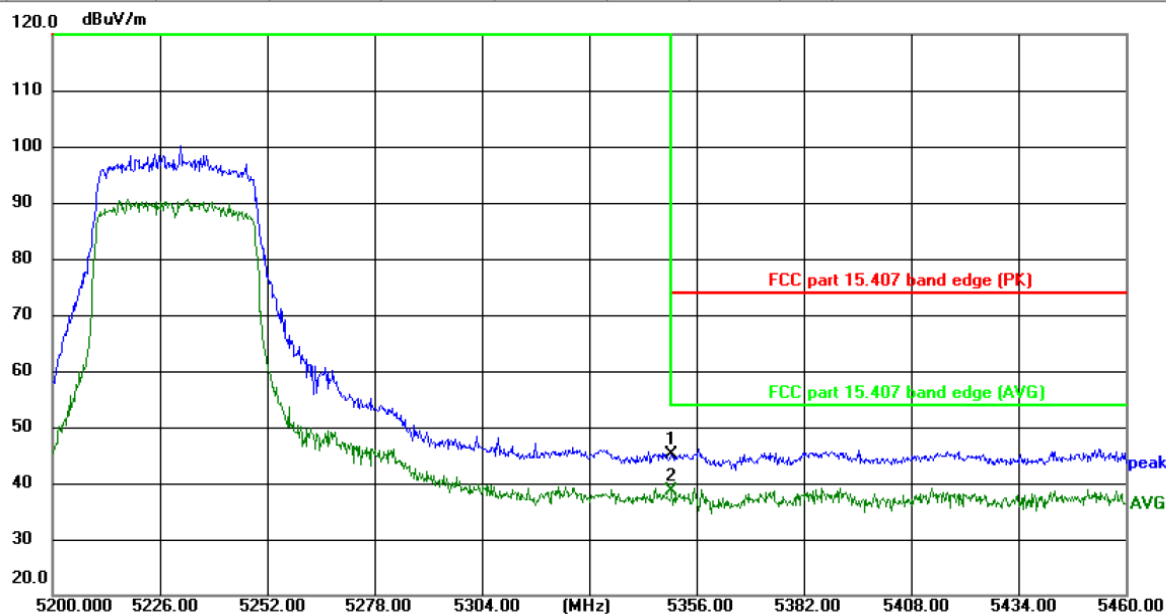
AX40-5230



Site: 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 22.3(°C) Humidity: 40 %

Limit: FCC part 15.407 band edge (PK) Power: AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	51.21	-7.95	43.26	74.00	-30.74	peak	P	
2 *	5350.000	44.01	-7.95	36.06	54.00	-17.94	AVG	P	

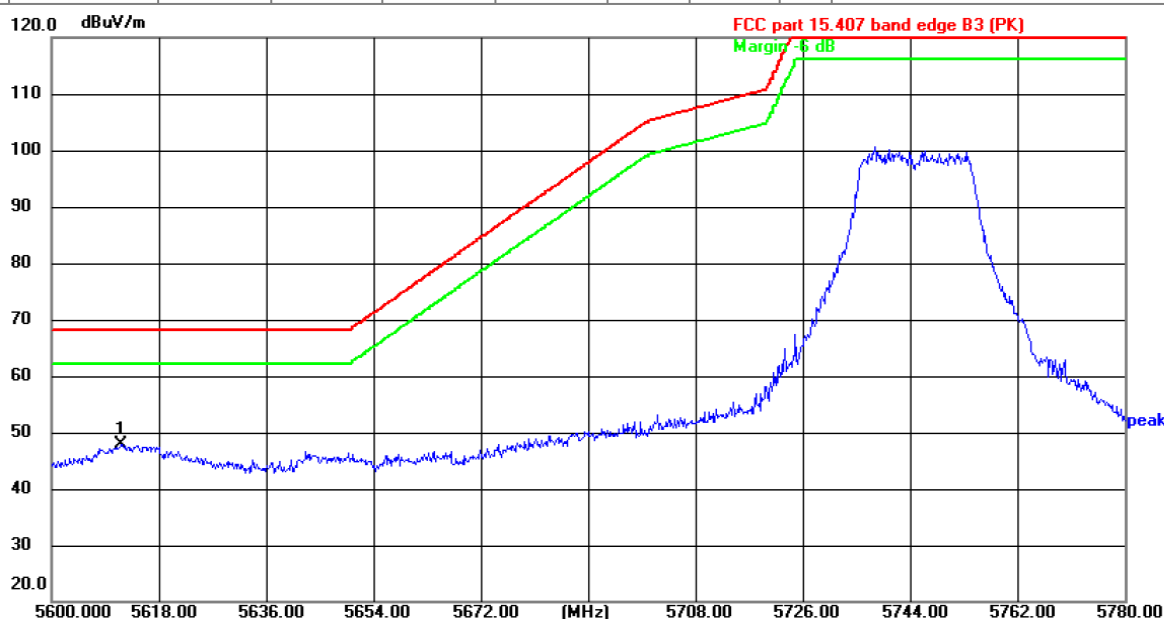
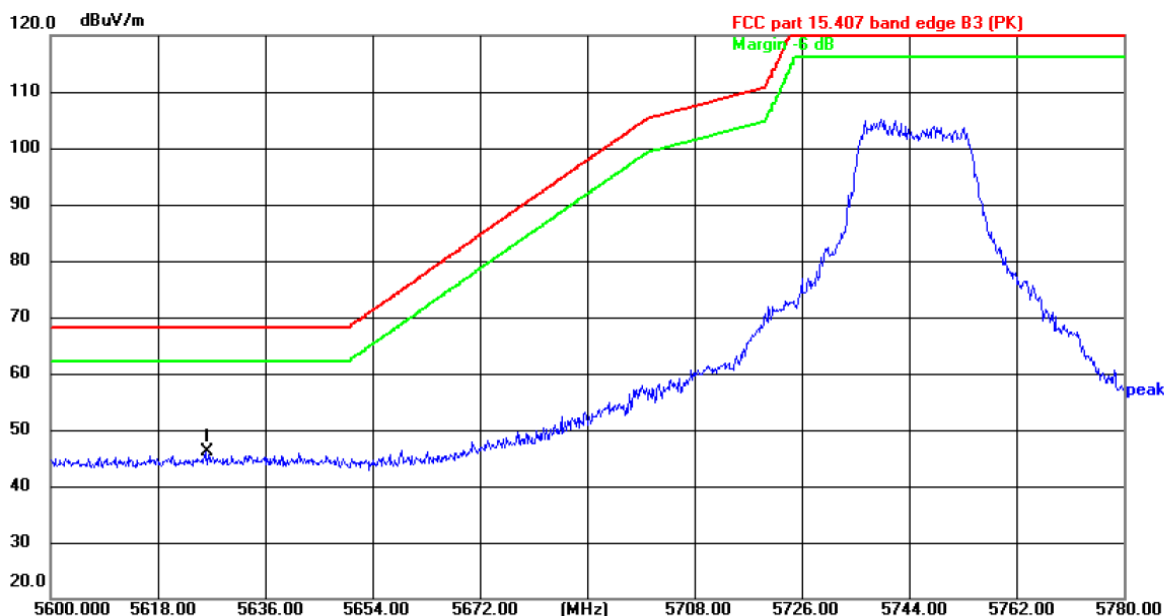


Site: 3m Anechoic Chamber Polarization: **Vertical** Temperature: 22.3(°C) Humidity: 40 %

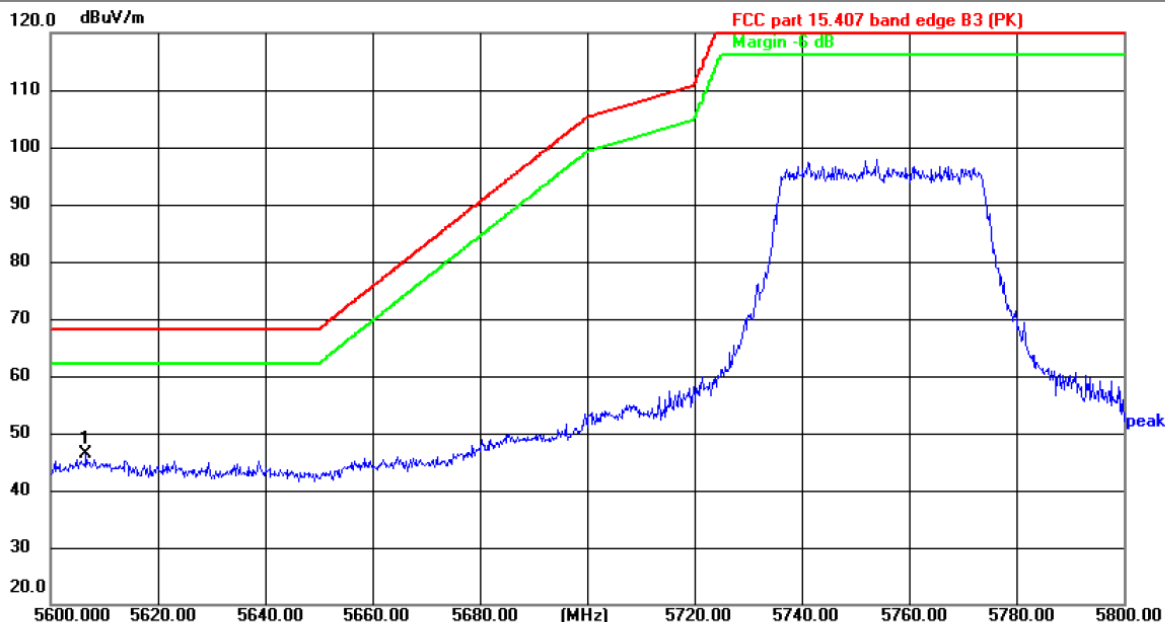
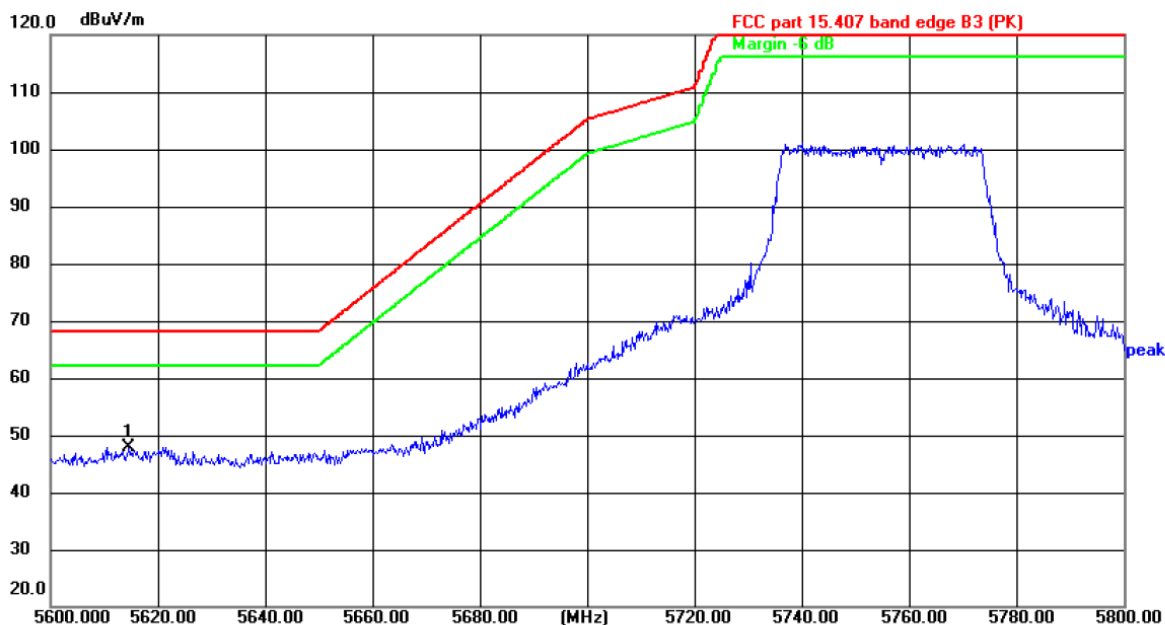
Limit: FCC part 15.407 band edge (PK) Power: AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	53.11	-7.95	45.16	74.00	-28.84	peak	P	
2 *	5350.000	46.47	-7.95	38.52	54.00	-15.48	AVG	P	

AX20-5745



AX40-5755



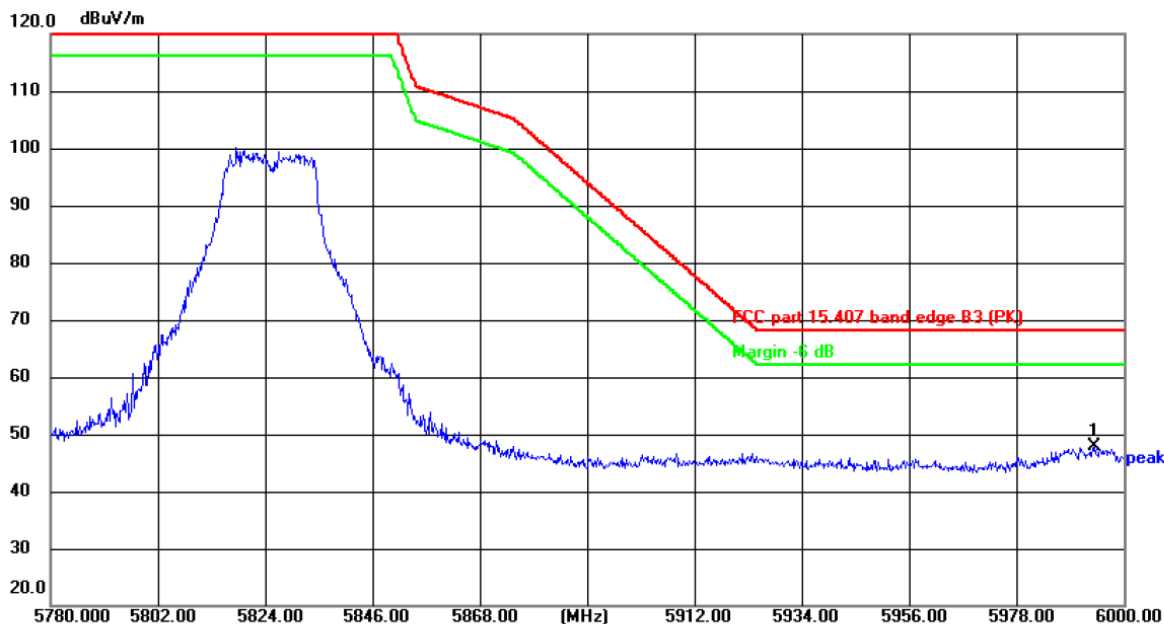
AX20-5825



Site: 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 22.3(°C) Humidity: 40 %

Limit: FCC part 15.407 band edge B3 (PK) Power: AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5947.508	54.81	-5.56	49.25	68.20	-18.95	peak	P	

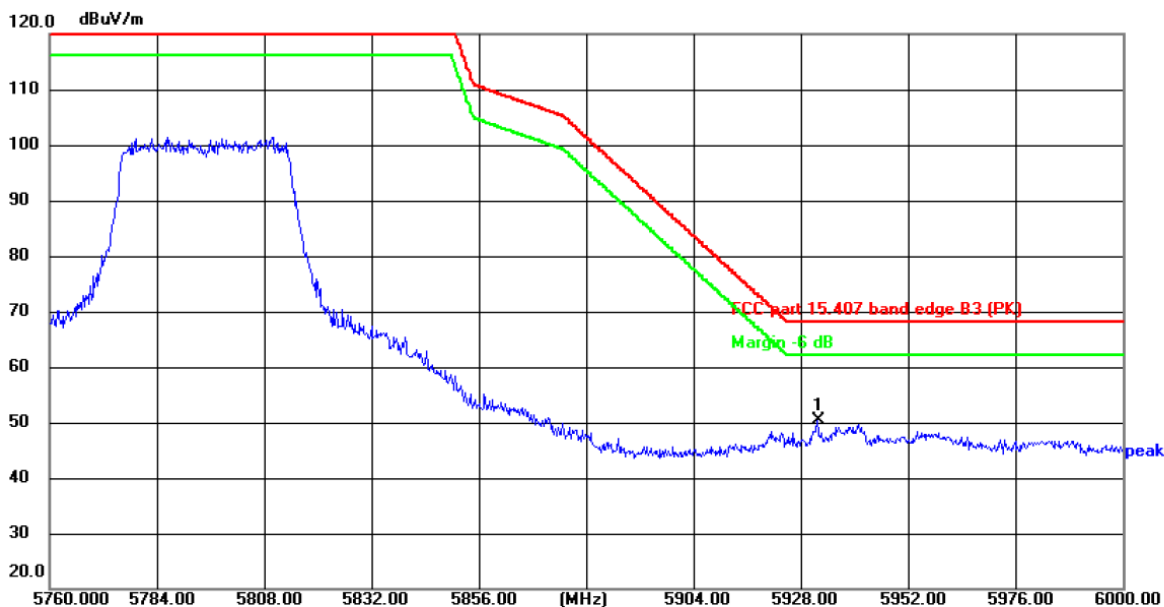


Site: 3m Anechoic Chamber Polarization: **Vertical** Temperature: 22.3(°C) Humidity: 40 %

Limit: FCC part 15.407 band edge B3 (PK) Power: AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5994.082	53.16	-5.34	47.82	68.20	-20.38	peak	P	

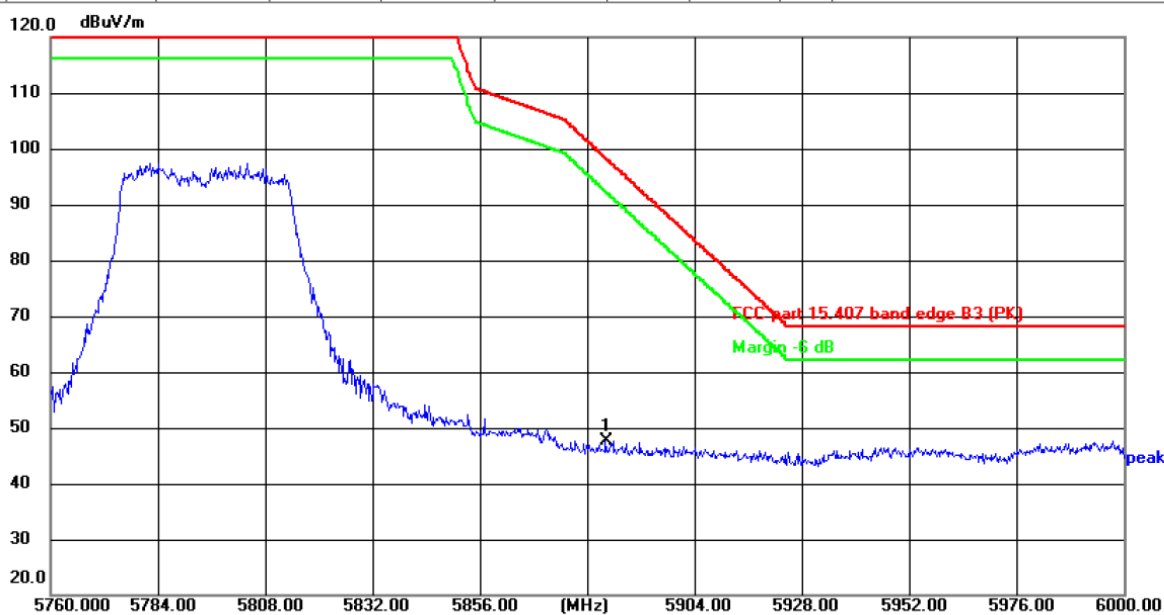
AX40-5795



Site: 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 22.3(°C) Humidity: 40 %

Limit: FCC part 15.407 band edge B3 (PK) Power: AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5931.624	56.12	-5.63	50.49	68.20	-17.71	peak	P	



Site: 3m Anechoic Chamber Polarization: **Vertical** Temperature: 22.3(°C) Humidity: 40 %

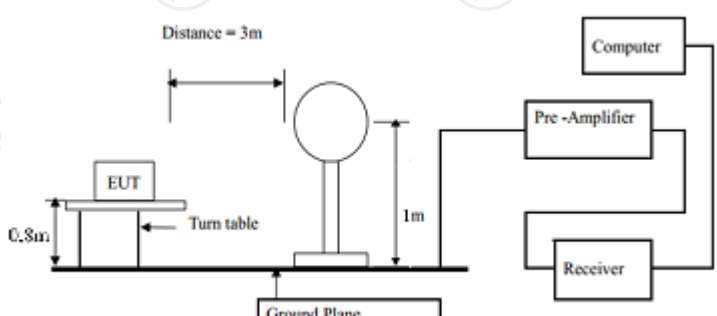
Limit: FCC part 15.407 band edge B3 (PK) Power: AC 120V/60Hz

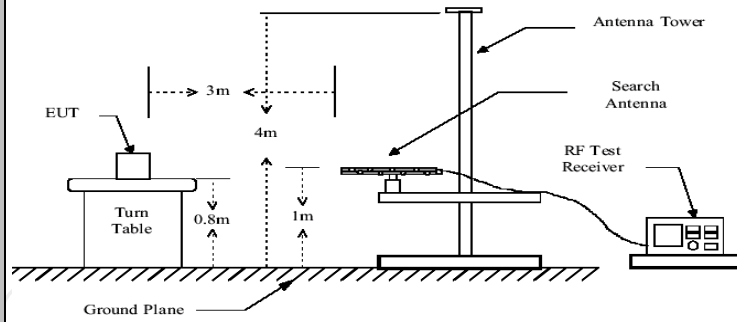
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5884.272	53.55	-5.82	47.73	98.34	-50.61	peak	P	

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

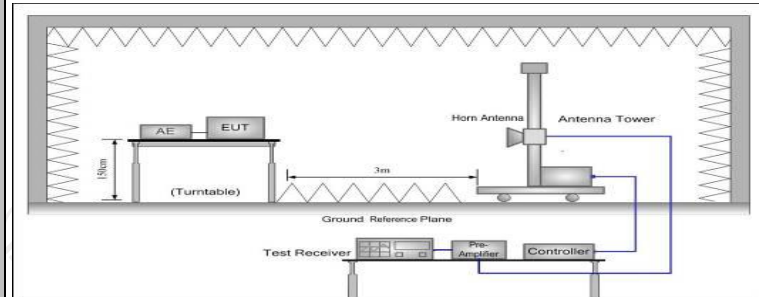
5.8. Unwanted Emissions

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		74dBµV/m
			AVG		54dBµV/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: 68.2dBuV/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

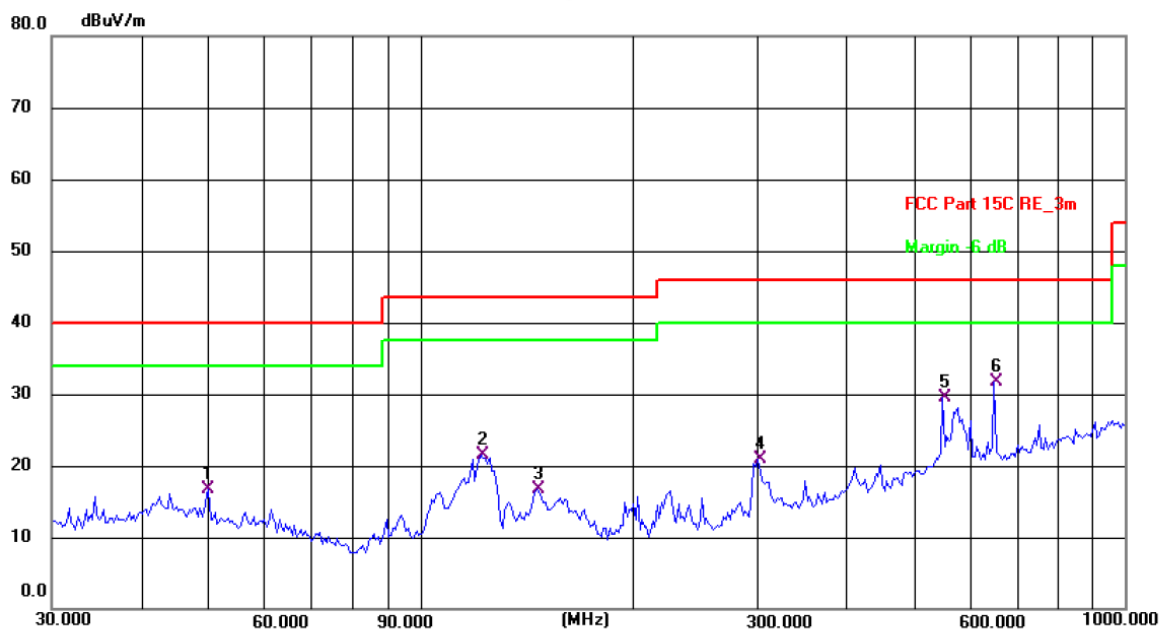
Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI7	100529	Jan. 31, 2025
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	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_EMCC	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: 21.8(C)

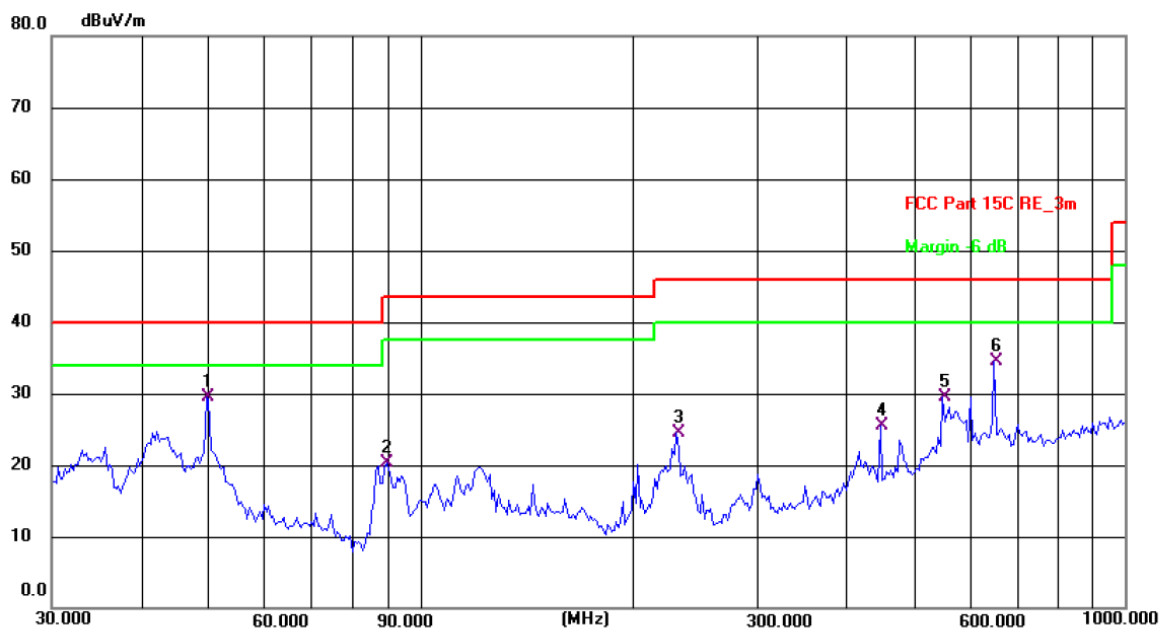
Humidity: 49 %

Limit: FCC Part 15C RE_3m

Power: AC 120 V/ 60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	50.0566	29.03	-12.28	16.75	40.00	-23.25	QP	P	
2	121.9755	34.84	-13.28	21.56	43.50	-21.94	QP	P	
3	146.3735	28.48	-11.75	16.73	43.50	-26.77	QP	P	
4	301.4224	31.65	-10.75	20.90	46.00	-25.10	QP	P	
5	550.9480	35.87	-6.43	29.44	46.00	-16.56	QP	P	
6 *	651.9417	35.73	-4.01	31.72	46.00	-14.28	QP	P	

Vertical:



Site: 3m Anechoic Chamber1

Polarization: **Vertical**

Temperature: 21.8(C) Humidity: 49 %

Limit: FCC Part 15C RE_3m

Power: AC 120 V/ 60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	49.7068	41.73	-12.27	29.46	40.00	-10.54	QP	P	
2	89.5899	37.05	-16.68	20.37	43.50	-23.13	QP	P	
3	230.9068	38.72	-14.29	24.43	46.00	-21.57	QP	P	
4	449.5558	33.63	-8.20	25.43	46.00	-20.57	QP	P	
5	550.9480	36.00	-6.43	29.57	46.00	-16.43	QP	P	
6	651.9417	38.53	-4.01	34.52	46.00	-11.48	QP	P	

- Note:**
- 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
 - 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), 802.11ax(HE20), 802.11ax(HE40) and the worst case Mode (Lowest channel and 802.11b) was submitted only. And the test data in this project is powered by adapter 1 which is in the worse case.
 - Measurement (dBuV) = 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	38.16	---	1.78	39.94	---	68.2	---	-28.26
15540	H	39.11	---	5.21	44.32	---	74	54	-9.68
---	H	---	---	---	---	---	---	---	---
10360	V	38.83	---	1.78	40.61	---	68.2	---	-27.59
15540	V	40.02	---	5.21	45.23	---	74	54	-8.77
---	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	39.16	---	1.83	40.99	---	68.2	---	-27.21
15600	H	40.8	---	5.23	46.03	---	74	54	-7.97
---	H	---	---	---	---	---	---	---	---
10400	V	40.17	---	1.83	42	---	68.2	---	-26.2
15600	V	41.69	---	5.23	46.92	---	74	54	-7.08
---	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	39.37	---	5.25	44.62	---	74	54	-9.38
---	H	---	---	---	---	---	---	---	---
10480	V	38.69	---	1.85	40.54	---	68.2	---	-27.66
15720	V	40.25	---	5.25	45.5	---	74	54	-8.5
---	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	41.58	---	1.78	43.36	---	68.2	---	-24.84
15540	H	40.12	---	5.21	45.33	---	74	54	-8.67
---	H	---	---	---	---	---	---	---	---
10360	V	42.23	---	1.78	44.01	---	68.2	---	-24.19
15540	V	41.63	---	5.21	46.84	---	74	54	-7.16
---	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	40.25	---	1.83	42.08	---	68.2	---	-26.12
15600	H	41.03	---	5.23	46.26	---	74	54	-7.74
---	H	---	---	---	---	---	---	---	---
10400	V	40.85	---	1.83	42.68	---	68.2	---	-25.52
15600	V	39.14	---	5.23	44.37	---	74	54	-9.63
---	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	41.92	---	1.85	43.77	---	68.2	---	-24.43
15720	H	41.35	---	5.25	46.6	---	74	54	-7.4
---	H	---	---	---	---	---	---	---	---
10480	V	40.72	---	1.85	42.57	---	68.2	---	-25.63
15720	V	40.06	---	5.25	45.31	---	74	54	-8.69
---	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	42.67	---	1.80	44.47	---	68.2	---	-23.73
15570	H	41.34	---	5.22	46.56	---	74	54	-7.44
---	H	---	---	---	---	---	---	---	---
10380	V	40.26	---	1.80	42.06	---	68.2	---	-26.14
15570	V	39.83	---	5.22	45.05	---	74	54	-8.95
---	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	41.76	---	1.85	43.61	---	68.2	---	-24.59
15690	H	39.15	---	5.08	44.23	---	74	54	-9.77
---	H	---	---	---	---	---	---	---	---
10460	V	41.47	---	1.85	43.32	---	68.2	---	-24.88
15690	V	40.32	---	5.08	45.4	---	74	54	-8.6
---	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	40.24	---	1.78	42.02	---	68.2	---	-26.18
15540	H	39.05	---	5.21	44.26	---	74	54	-9.74
---	H	---	---	---	---	---	---	---	---
10360	V	38.19	---	1.78	39.97	---	68.2	---	-28.23
15540	V	39.34	---	5.21	44.55	---	74	54	-9.45
---	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	40.26	---	1.83	42.09	---	68.2	---	-26.11
15600	H	40.47	---	5.23	45.7	---	74	54	-8.3
---	H	---	---	---	---	---	---	---	---
10400	V	39.78	---	1.83	41.61	---	68.2	---	-26.59
15600	V	39.41	---	5.23	44.64	---	74	54	-9.36
---	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	37.16	---	1.85	39.01	---	68.2	---	-29.19
15720	H	38.57	---	5.25	43.82	---	74	54	-10.18
---	H	---	---	---	---	---	---	---	---
10480	V	38.27	---	1.85	40.12	---	68.2	---	-28.08
15720	V	39.85	---	5.25	45.1	---	74	54	-8.9
---	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	40.55	---	1.80	42.35	---	68.2	---	-25.85
15570	H	39.3	---	5.22	44.52	---	74	54	-9.48
---	H	---	---	---	---	---	---	---	---
10380	V	38.13	---	1.80	39.93	---	68.2	---	-28.27
15570	V	39.26	---	5.22	44.48	---	74	54	-9.52
---	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	38.69	---	1.85	40.54	---	68.2	---	-27.66
15690	H	39.52	---	5.08	44.6	---	74	54	-9.4
---	H	---	---	---	---	---	---	---	---
10460	V	39.68	---	1.85	41.53	---	68.2	---	-26.67
15690	V	40.12	---	5.08	45.2	---	74	54	-8.8
---	V	---	---	---	---	---	---	---	---
11ax(HE20) 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	39.54	---	1.78	41.32	---	68.2	---	-26.88
15540	H	40.03	---	5.21	45.24	---	74	54	-8.76
---	H	---	---	---	---	---	---	---	---
10360	V	38.44	---	1.78	40.22	---	68.2	---	-27.98
15540	V	40.28	---	5.21	45.49	---	74	54	-8.51
---	V	---	---	---	---	---	---	---	---
11ax(HE20) 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	39.71	---	1.83	41.54	---	68.2	---	-26.66
15600	H	40.25	---	5.23	45.48	---	74	54	-8.52
---	H	---	---	---	---	---	---	---	---
10400	V	39.26	---	1.83	41.09	---	68.2	---	-27.11
15600	V	39.15	---	5.23	44.38	---	74	54	-9.62
---	V	---	---	---	---	---	---	---	---
11ax(HE20) 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	38.41	---	1.85	40.26	---	68.2	---	-27.94
15720	H	39.15	---	5.25	44.4	---	74	54	-9.6
---	H	---	---	---	---	---	---	---	---
10480	V	38.27	---	1.85	40.12	---	68.2	---	-28.08
15720	V	39.63	---	5.25	44.88	---	74	54	-9.12
---	V	---	---	---	---	---	---	---	---

11ax(HE40) 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	40.03	---	1.80	41.83	---	68.2	---	-26.37
15570	H	39.56	---	5.22	44.78	---	74	54	-9.22
---	H	---	---	---	---	---	---	---	---
10380	V	38.17	---	1.80	39.97	---	68.2	---	-28.23
15570	V	38.73	---	5.22	43.95	---	74	54	-10.05
---	V	---	---	---	---	---	---	---	---
11ax(HE40) 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	38.02	---	1.85	39.87	---	68.2	---	-28.33
15690	H	39.62	---	5.08	44.7	---	74	54	-9.3
---	H	---	---	---	---	---	---	---	---
10460	V	39.88	---	1.85	41.73	---	68.2	---	-26.47
15690	V	40.14	---	5.08	45.22	---	74	54	-8.78
---	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	44.68	---	2.48	47.16	---	74	54	-6.84
17235	H	37.11	---	6.50	43.61	---	68.2	---	-24.59
---	H	---	---	---	---	---	---	---	---
11490	V	45.36	---	2.48	47.84	---	74	54	-6.16
17235	V	38.02	---	6.50	44.52	---	68.2	---	-23.68
---	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	43.13	---	2.42	45.55	---	74	54	-8.45
17355	H	38.37	---	7.03	45.4	---	68.2	---	-22.8
---	H	---	---	---	---	---	---	---	---
11570	V	43.26	---	2.42	45.68	---	74	54	-8.32
17355	V	39.58	---	7.03	46.61	---	68.2	---	-21.59
---	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	43.02	---	2.41	45.43	---	74	54	-8.57
17475	H	36.13	---	7.41	43.54	---	68.2	---	-24.66
---	H	---	---	---	---	---	---	---	---
11650	V	43.16	---	2.41	45.57	---	74	54	-8.43
17475	V	38.72	---	7.41	46.13	---	68.2	---	-22.07
---	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	44.02	---	2.48	46.5	---	74	54	-7.5
17235	H	38.67	---	6.50	45.17	---	68.2	---	-23.03
---	H	---	---	---	---	---	---	---	---
11490	V	44.36	---	2.48	46.84	---	74	54	-7.16
17235	V	39.15	---	6.50	45.65	---	68.2	---	-22.55
---	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	44.86	---	2.42	47.28	---	74	54	-6.72
17355	H	39.03	---	7.03	46.06	---	68.2	---	-22.14
---	H	---	---	---	---	---	---	---	---
11570	V	44.78	---	2.42	47.2	---	74	54	-6.8
17355	V	39.14	---	7.03	46.17	---	68.2	---	-22.03
---	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	45.79	---	2.41	48.2	---	74	54	-5.8
17475	H	37.18	---	7.41	44.59	---	68.2	---	-23.61
---	H	---	---	---	---	---	---	---	---
11650	V	45.45	---	2.41	47.86	---	74	54	-6.14
17475	V	40.06	---	7.41	47.47	---	68.2	---	-20.73
---	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	44.11	---	2.47	46.58	---	74	54	-7.42
17265	H	37.25	---	6.62	43.87	---	68.2	---	-24.33
---	H	---	---	---	---	---	---	---	---
11510	V	44.8	---	2.47	47.27	---	74	54	-6.73
17265	V	38.24	---	6.62	44.86	---	68.2	---	-23.34
---	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	44.67	---	2.40	47.07	---	74	54	-6.93
17385	H	38.52	---	7.15	45.67	---	68.2	---	-22.53
---	H	---	---	---	---	---	---	---	---
11590	V	44.69	---	2.40	47.09	---	74	54	-6.91
17385	V	37.12	---	7.15	44.27	---	68.2	---	-23.93
---	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	44.26	---	2.48	46.74	---	74	54	-7.26
17235	H	37.19	---	6.50	43.69	---	68.2	---	-24.51
---	H	---	---	---	---	---	---	---	---
11490	V	44.34	---	2.48	46.82	---	74	54	-7.18
17235	V	38.17	---	6.50	44.67	---	68.2	---	-23.53
---	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	43.48	---	2.42	45.9	---	74	54	-8.1
17355	H	36.3	---	7.03	43.33	---	68.2	---	-24.87
---	H	---	---	---	---	---	---	---	---
11570	V	43.56	---	2.42	45.98	---	74	54	-8.02
17355	V	38.94	---	7.03	45.97	---	68.2	---	-22.23
---	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	44.25	---	2.41	46.66	---	74	54	-7.34
17475	H	38.14	---	7.41	45.55	---	68.2	---	-22.65
---	H	---	---	---	---	---	---	---	---
11650	V	44.36	---	2.41	46.77	---	74	54	-7.23
17475	V	40.08	---	7.41	47.49	---	68.2	---	-20.71
---	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	44.25	---	2.47	46.72	---	74	54	-7.28
17265	H	37.06	---	6.62	43.68	---	68.2	---	-24.52
---	H	---	---	---	---	---	---	---	---
11510	V	43.58	---	2.47	46.05	---	74	54	-7.95
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	43.58	---	2.40	45.98	---	74	54	-8.02
17385	H	37.05	---	7.15	44.2	---	68.2	---	-24
---	H	---	---	---	---	---	---	---	---
11590	V	42.12	---	2.40	44.52	---	74	54	-9.48
17385	V	38.18	---	7.15	45.33	---	68.2	---	-22.87
---	V	---	---	---	---	---	---	---	---
11ax(HE20) 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	45.27	---	2.48	47.75	---	74	54	-6.25
17235	H	37.14	---	6.50	43.64	---	68.2	---	-24.56
---	H	---	---	---	---	---	---	---	---
11490	V	45.06	---	2.48	47.54	---	74	54	-6.46
17235	V	38.11	---	6.50	44.61	---	68.2	---	-23.59
---	V	---	---	---	---	---	---	---	---
11ax(HE20) 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	43.06	---	2.42	45.48	---	74	54	-8.52
17355	H	36.79	---	7.03	43.82	---	68.2	---	-24.38
---	H	---	---	---	---	---	---	---	---
11570	V	44.35	---	2.42	46.77	---	74	54	-7.23
17355	V	38.24	---	7.03	45.27	---	68.2	---	-22.93
---	V	---	---	---	---	---	---	---	---
11ax(HE20) 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	43.79	---	2.41	46.2	---	74	54	-7.8
17475	H	39.14	---	7.41	46.55	---	68.2	---	-21.65
---	H	---	---	---	---	---	---	---	---
11650	V	43.96	---	2.41	46.37	---	74	54	-7.63
17475	V	39.24	---	7.41	46.65	---	68.2	---	-21.55
---	V	---	---	---	---	---	---	---	---

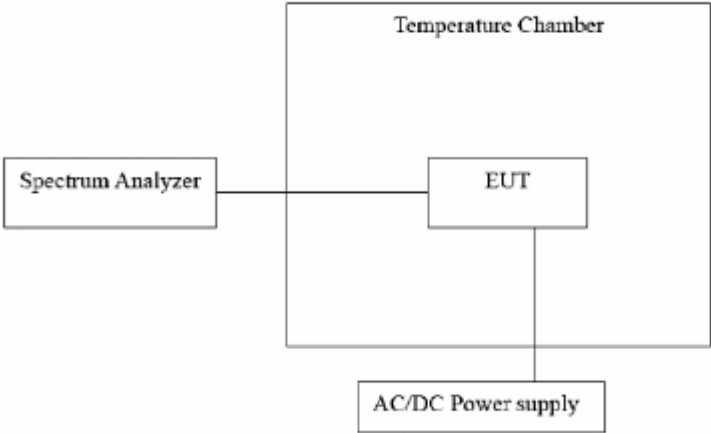
11ax(HE40) CH151: 5755MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11510	H	43.37	---	2.47	45.84	---	74	54	-8.16
17265	H	37.12	---	6.62	43.74	---	68.2	---	-24.46
---	H	---	---	---	---	---	---	---	---
11510	V	43.85	---	2.47	46.32	---	74	54	-7.68
17265	V	36.08	---	6.62	42.7	---	68.2	---	-25.5
---	V	---	---	---	---	---	---	---	---
11ax(HE40) 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	44.29	---	2.40	46.69	---	74	54	-7.31
17385	H	37.63	---	7.15	44.78	---	68.2	---	-23.42
---	H	---	---	---	---	---	---	---	---
11590	V	43.03	---	2.40	45.43	---	74	54	-8.57
17385	V	38.48	---	7.15	45.63	---	68.2	---	-22.57
---	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 EUT --- P[AC/DC Power supply] </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, 11ax), the worst case (11ax) was found and test data was shown in this report.

Test plots as follows:

Test mode:		802.11ax(HE20)	Frequency(MHz):	5180
Temperature (°C)	Voltage(V _{AC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5180	0	PASS
35		5180	0	PASS
25		5180	0	PASS
15		5180	0	PASS
5		5180	0	PASS
0		5180	0	PASS
25	102V	5180	0	PASS
	120V	5180	0	PASS
	138V	5180	0	PASS

Test mode:		802.11ax(HE20)	Frequency(MHz):	5200
Temperature (°C)	Voltage(V _{AC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5200	0	PASS
35		5200	0	PASS
25		5200	0	PASS
15		5200	0	PASS
5		5200	0	PASS
0		5200	0	PASS
25	102V	5200	0	PASS
	120V	5200	0	PASS
	138V	5200	0	PASS

Test mode:		802.11ax(HE20)	Frequency(MHz):	5240
Temperature (°C)	Voltage(V _{AC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5240	0	PASS
35		5240	0	PASS
25		5240	0	PASS
15		5240	0	PASS
5		5240	0	PASS
0		5240	0	PASS
25	102V	5240	0	PASS
	120V	5240	0	PASS
	138V	5240	0	PASS

Test mode:		802.11ax(HE20)	Frequency(MHz):	5745
Temperature (°C)	Voltage(V _{AC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5744.96	-40000	PASS
35		5744.98	-20000	PASS
25		5744.96	-40000	PASS
15		5744.96	-40000	PASS
5		5744.96	-40000	PASS
0		5744.96	-40000	PASS
25	102V	5744.98	-20000	PASS
	120V	5744.96	-40000	PASS
	138V	5744.96	-40000	PASS

Test mode:		802.11ax(HE20)	Frequency(MHz):	5785
Temperature (°C)	Voltage(V _{AC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5784.96	-40000	PASS
35		5784.96	-40000	PASS
25		5784.98	-20000	PASS
15		5784.96	-40000	PASS
5		5784.98	-20000	PASS
0		5784.96	-40000	PASS
25	102V	5784.96	-40000	PASS
	120V	5784.96	-40000	PASS
	138V	5784.98	-20000	PASS

Test mode:		802.11ax(HE20)	Frequency(MHz):	5825
Temperature (°C)	Voltage(V _{AC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5824.98	-20000	PASS
35		5824.96	-40000	PASS
25		5824.96	-40000	PASS
15		5824.98	-20000	PASS
5		5824.96	-40000	PASS
0		5824.96	-40000	PASS
25	102V	5824.98	-20000	PASS
	120V	5824.96	-40000	PASS
	138V	5824.98	-20000	PASS

Test mode:		802.11ax(HE40)	Frequency(MHz):	5190
Temperature (°C)	Voltage(V _{AC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5190	0	PASS
35		5190	0	PASS
25		5190	0	PASS
15		5190	0	PASS
5		5190.04	40000	PASS
0		5190.04	40000	PASS
25	102V	5190	0	PASS
	120V	5190	0	PASS
	138V	5189.96	-40000	PASS

Test mode:		802.11ax(HE40)	Frequency(MHz):	5230
Temperature (°C)	Voltage(V _{AC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5230	0	PASS
35		5230	0	PASS
25		5230	0	PASS
15		5230	0	PASS
5		5230	0	PASS
0		5230	0	PASS
25	102V	5230	0	PASS
	120V	5230	0	PASS
	138V	5229.96	-40000	PASS

Test mode:		802.11ax(HE40)	Frequency(MHz):	5755
Temperature (°C)	Voltage(V _{AC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5754.96	-40000	PASS
35		5754.96	-40000	PASS
25		5754.96	-40000	PASS
15		5754.96	-40000	PASS
5		5754.96	-40000	PASS
0		5754.96	-40000	PASS
25	102V	5754.96	-40000	PASS
	120V	5754.96	-40000	PASS
	138V	5754.96	-40000	PASS

Test mode:		802.11ax(HE40)	Frequency(MHz):	5795
Temperature (°C)	Voltage(V _{AC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5794.96	-40000	PASS
35		5794.96	-40000	PASS
25		5794.96	-40000	PASS
15		5794.96	-40000	PASS
5		5794.96	-40000	PASS
0		5794.96	-40000	PASS
25	102V	5794.96	-40000	PASS
	120V	5794.96	-40000	PASS
	138V	5794.96	-40000	PASS

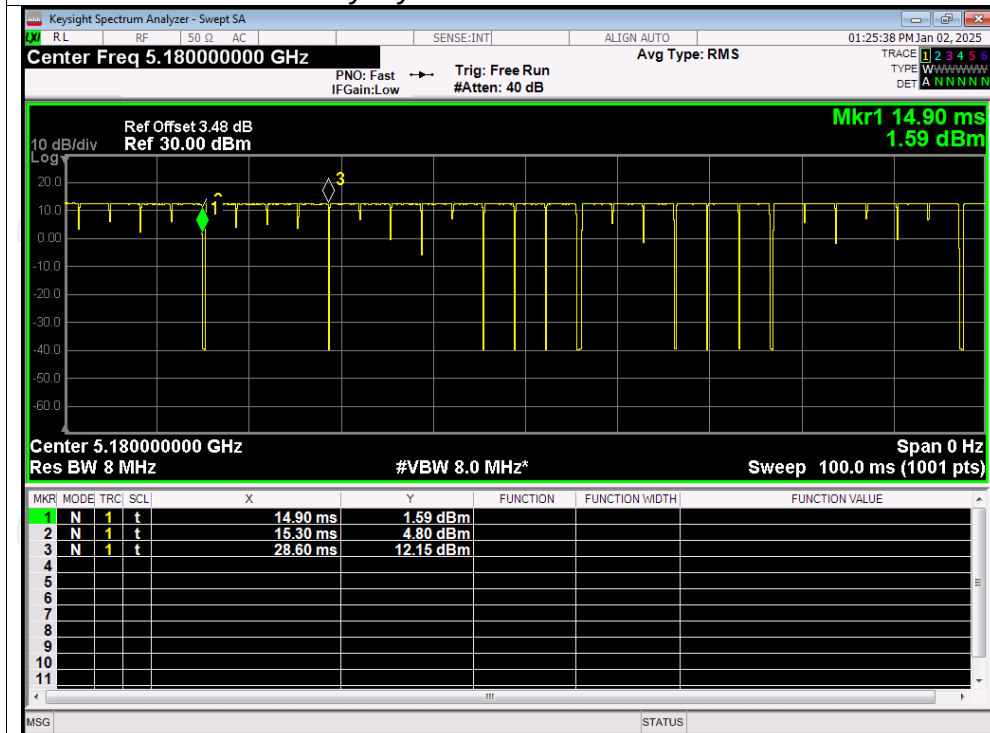
Appendix A: Test Result of Conducted Test

Duty Cycle

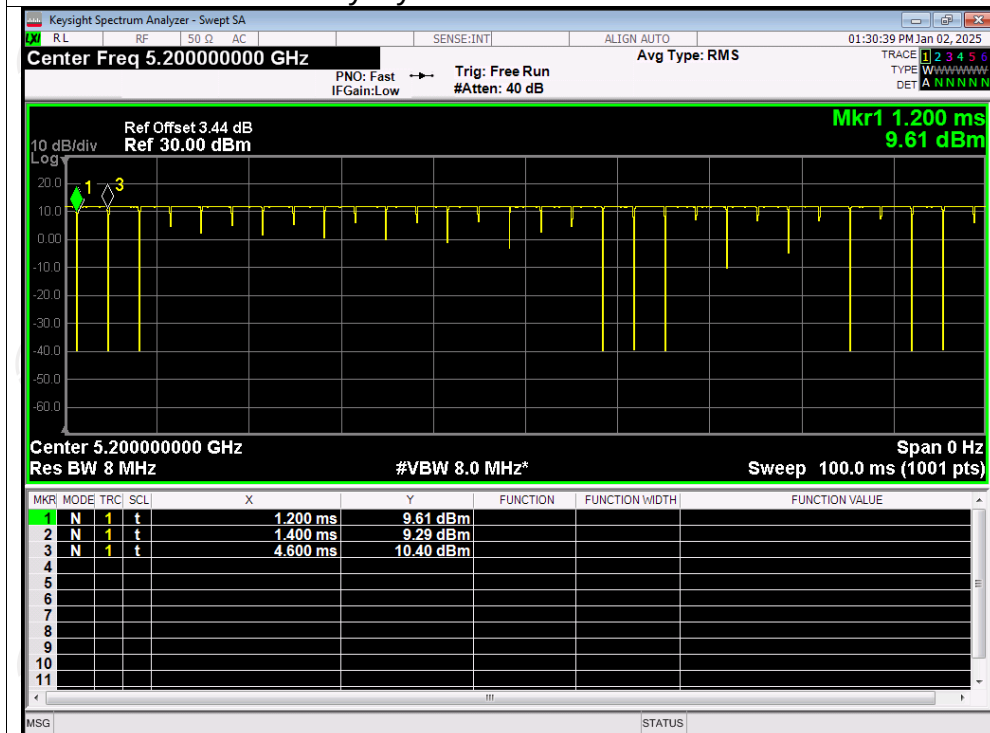
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	97.6	0.11
NVNT	a	5200	99.1	0
NVNT	a	5240	98.3	0
NVNT	n20	5180	96.8	0.14
NVNT	n20	5200	99.0	0
NVNT	n20	5240	94.51	0.25
NVNT	n40	5190	97.2	0.12
NVNT	n40	5230	98.2	0
NVNT	ac20	5180	97.7	0.10
NVNT	ac20	5200	99.3	0
NVNT	ac20	5240	98.9	0
NVNT	ac40	5190	98.7	0
NVNT	ac40	5230	99.1	0
NVNT	ax20	5180	96.9	0.14
NVNT	ax20	5200	97.7	0.10
NVNT	ax20	5240	98.5	0
NVNT	ax40	5190	94.71	0.24
NVNT	ax40	5230	96.3	0.16
NVNT	a	5745	98.8	0
NVNT	a	5785	99.2	0
NVNT	a	5825	99.1	0
NVNT	n20	5745	99.2	0
NVNT	n20	5785	98.9	0
NVNT	n20	5825	98.1	0
NVNT	n40	5755	99.1	0
NVNT	n40	5795	98.3	0
NVNT	ac20	5745	99.3	0
NVNT	ac20	5785	99.4	0
NVNT	ac20	5825	97.7	0.10
NVNT	ac40	5755	98.2	0
NVNT	ac40	5795	98.7	0
NVNT	ax20	5745	99.1	0
NVNT	ax20	5785	97.6	0.11
NVNT	ax20	5825	99.4	0
NVNT	ax40	5755	98.8	0
NVNT	ax40	5795	98.7	0

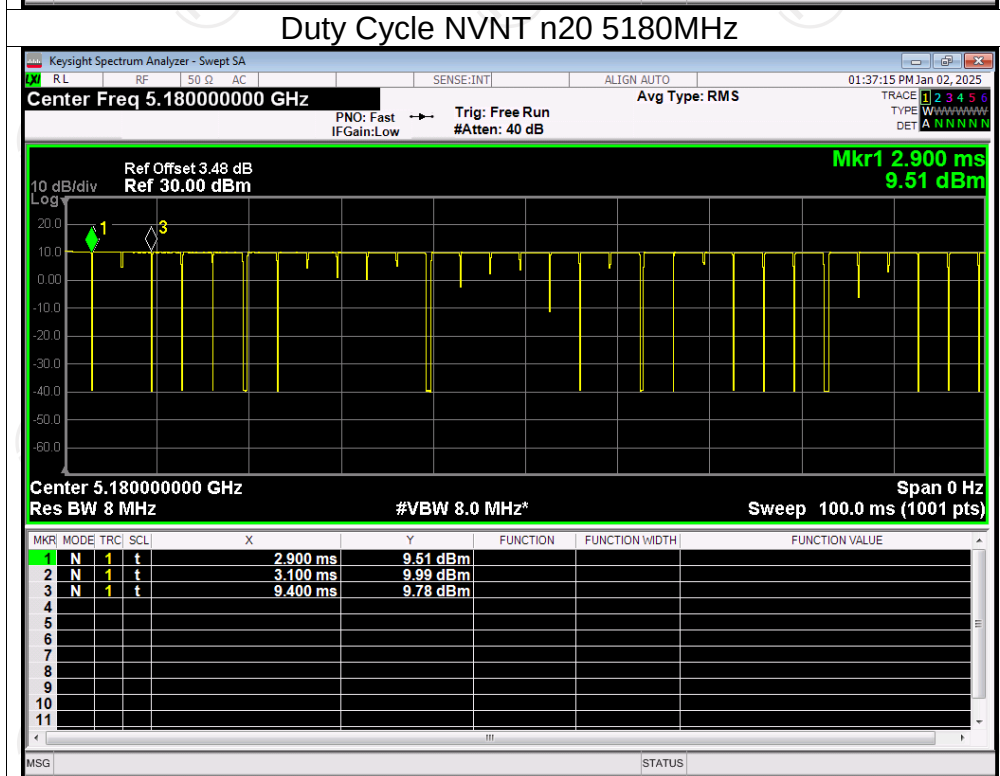
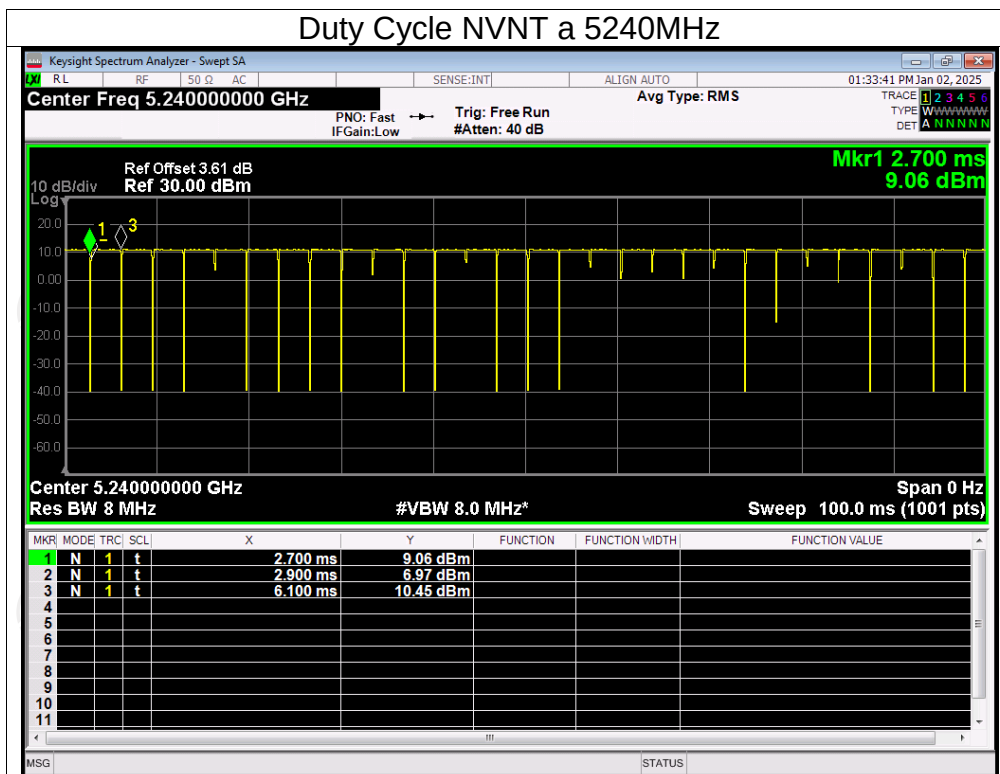
Test Graphs

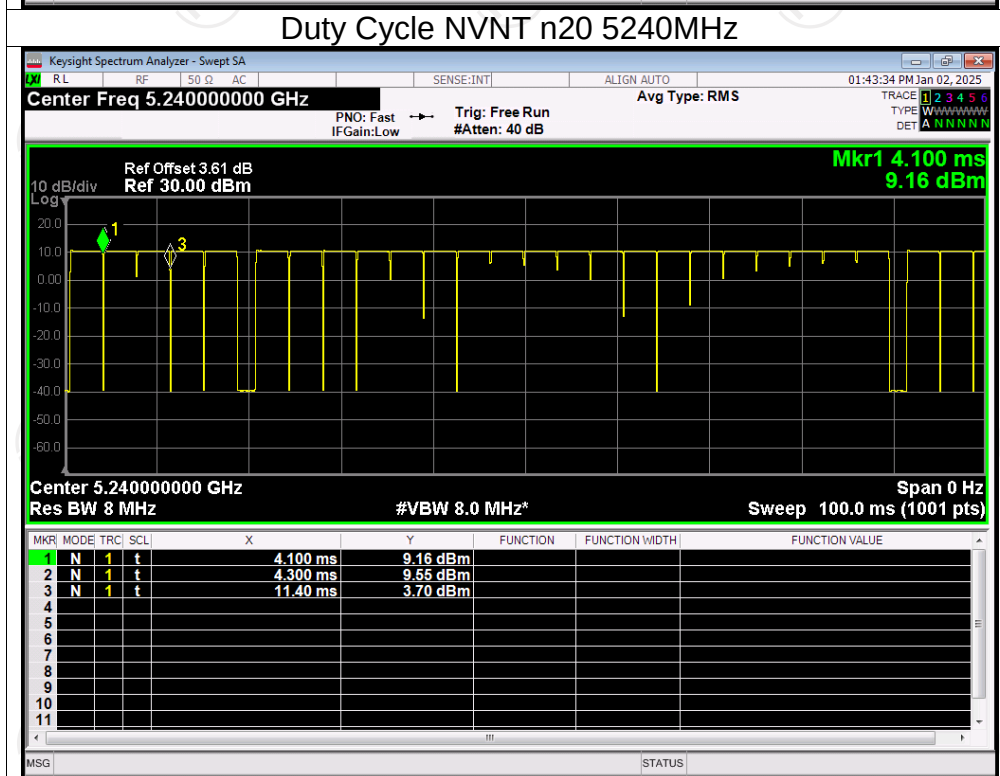
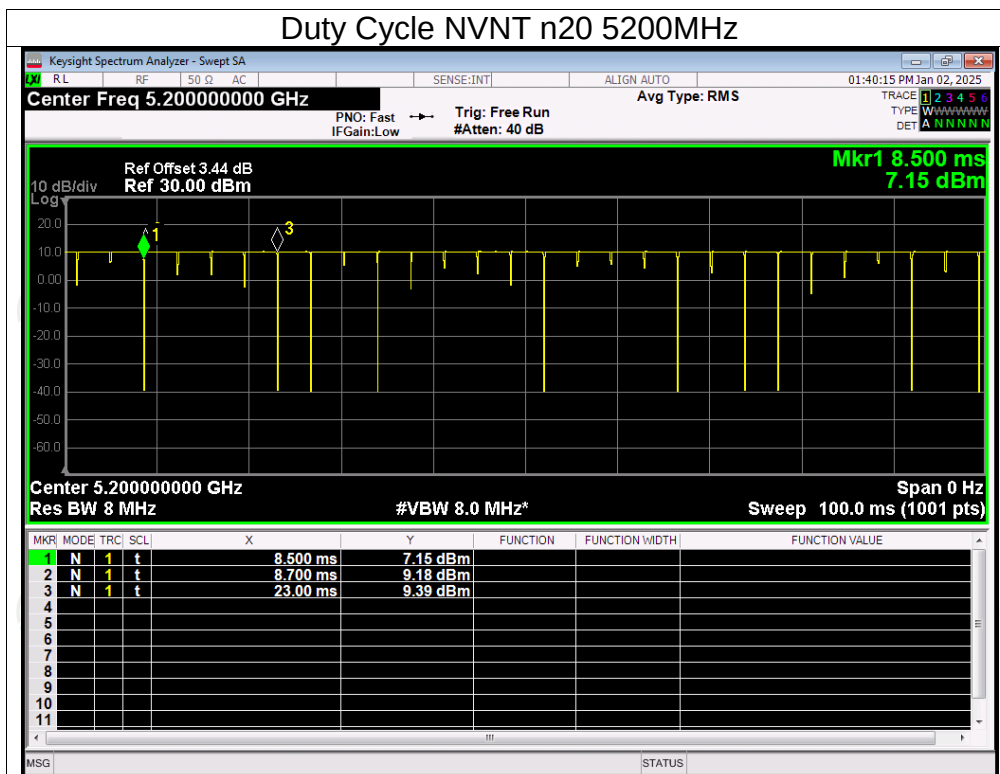
Duty Cycle NVNT a 5180MHz

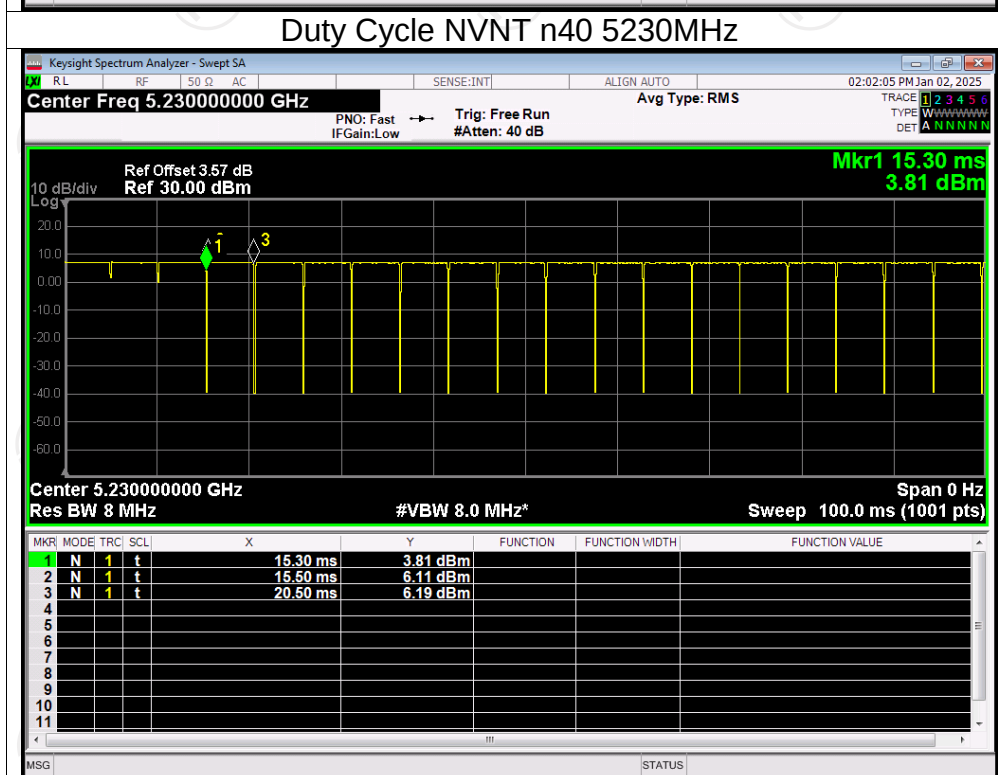
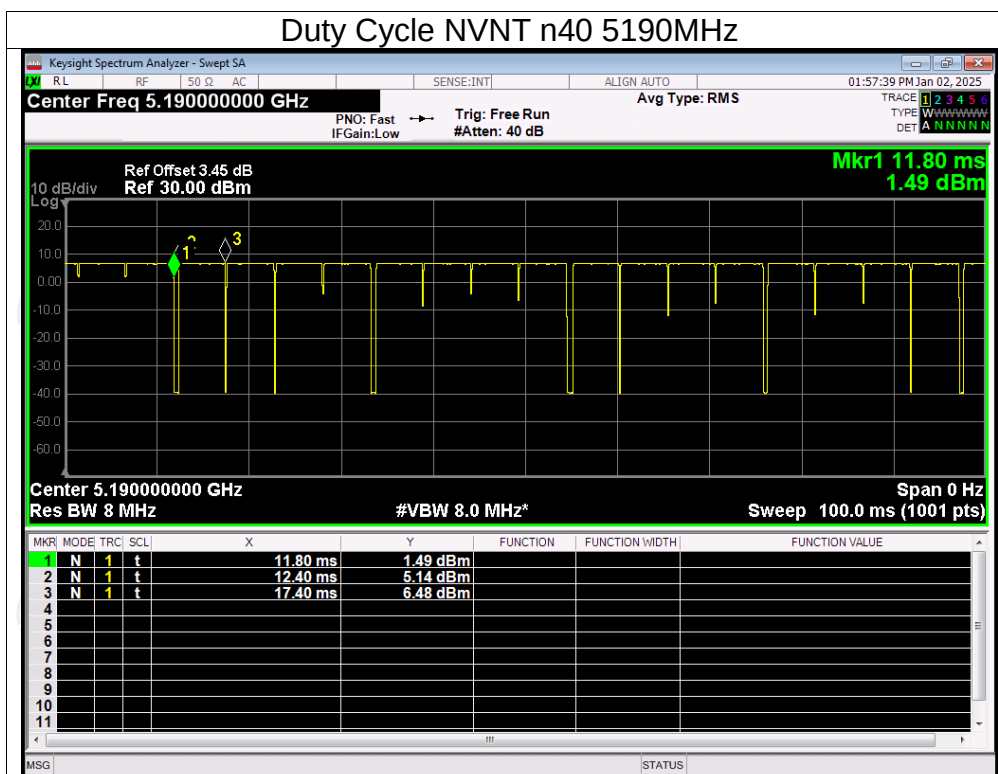


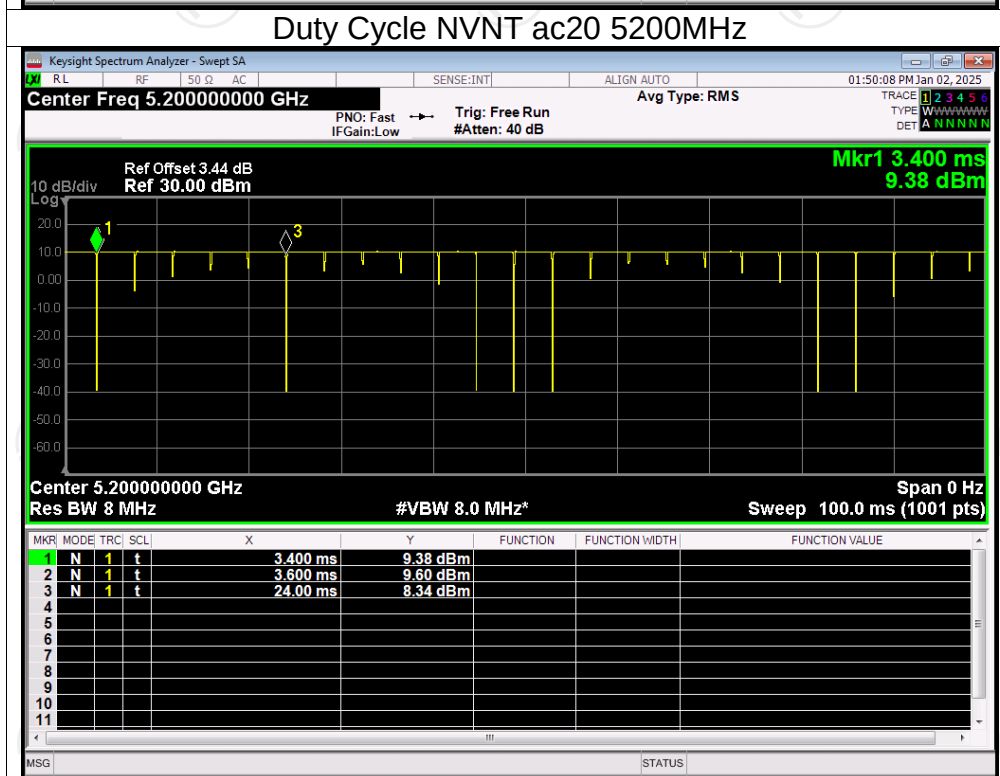
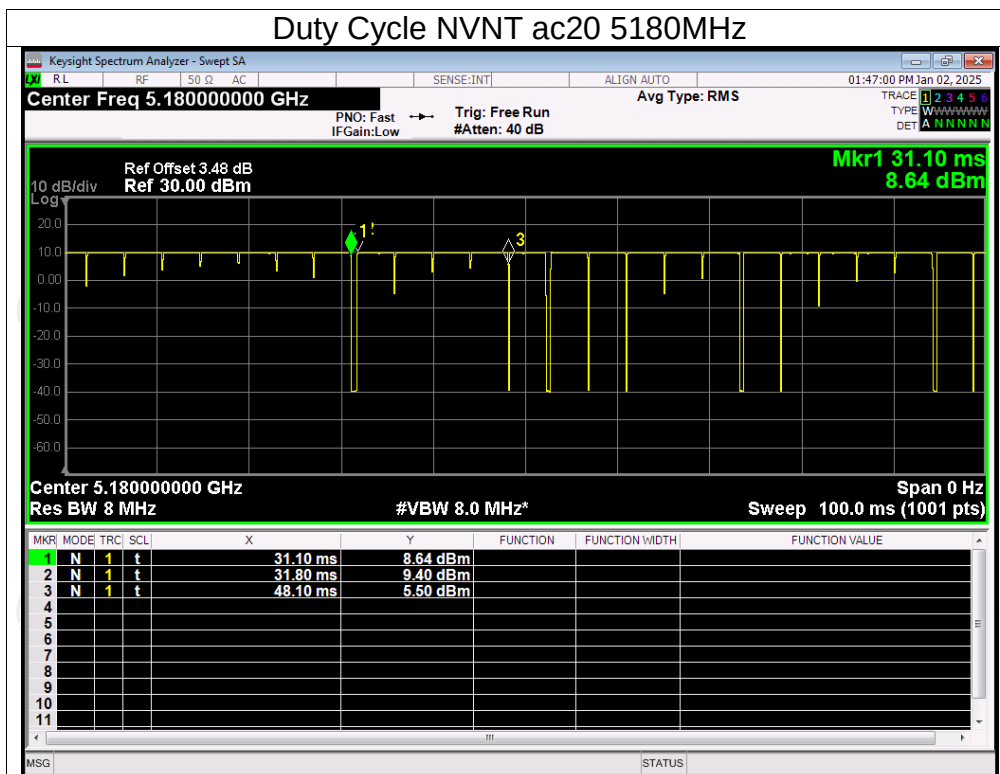
Duty Cycle NVNT a 5200MHz



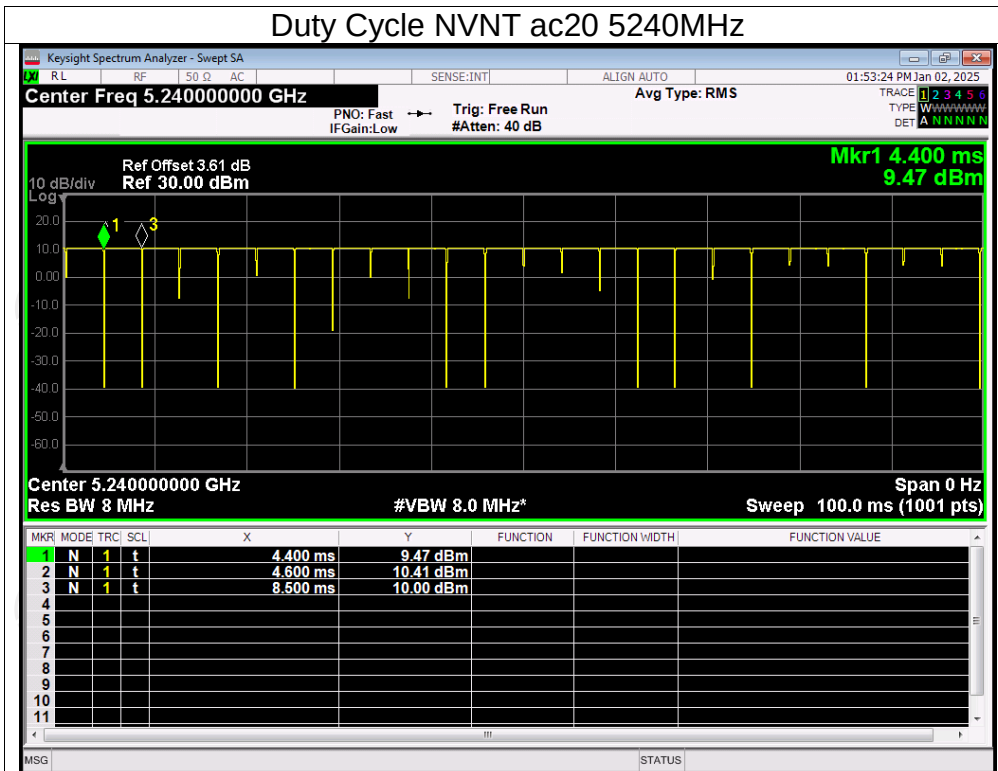




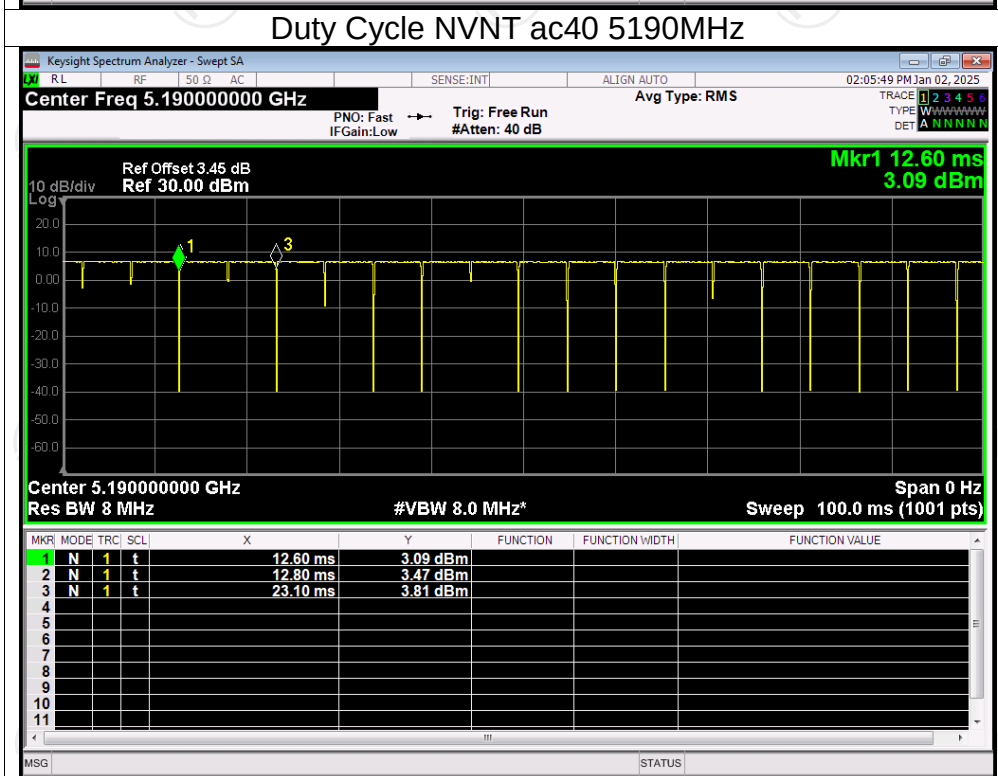


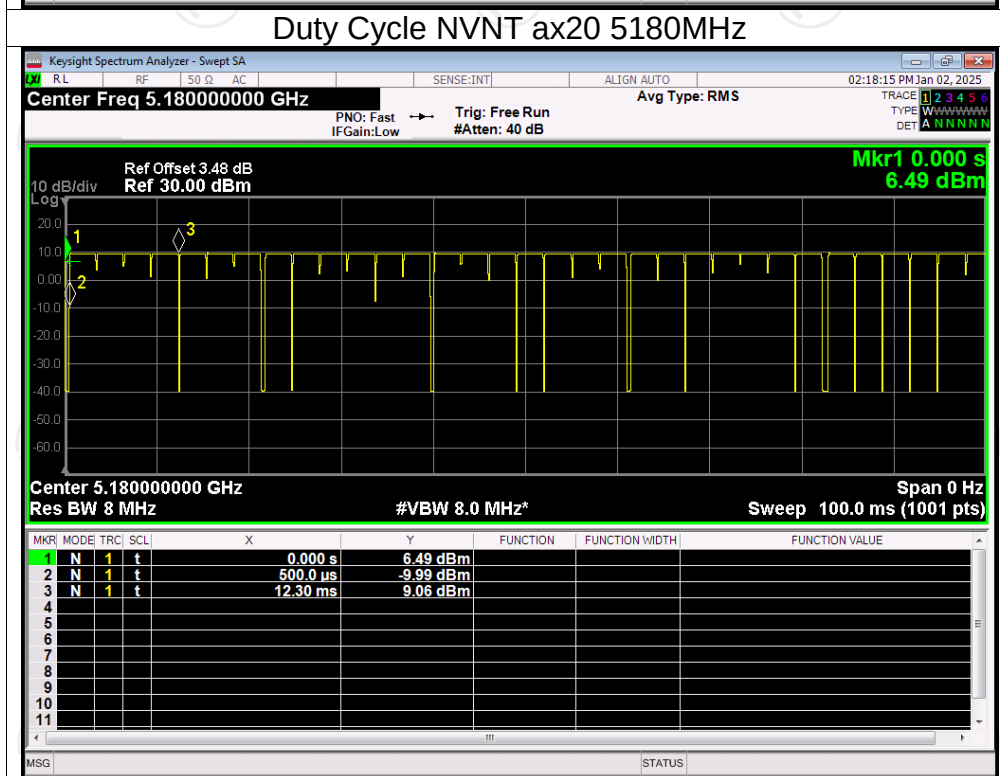
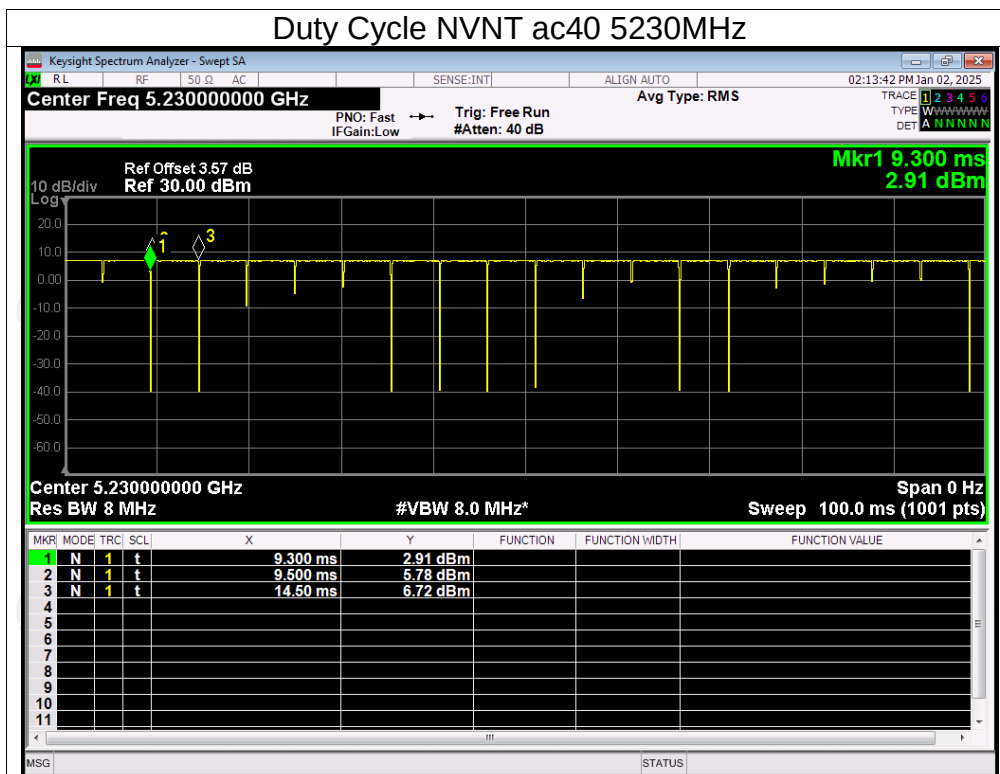


Duty Cycle NVNT ac20 5240MHz

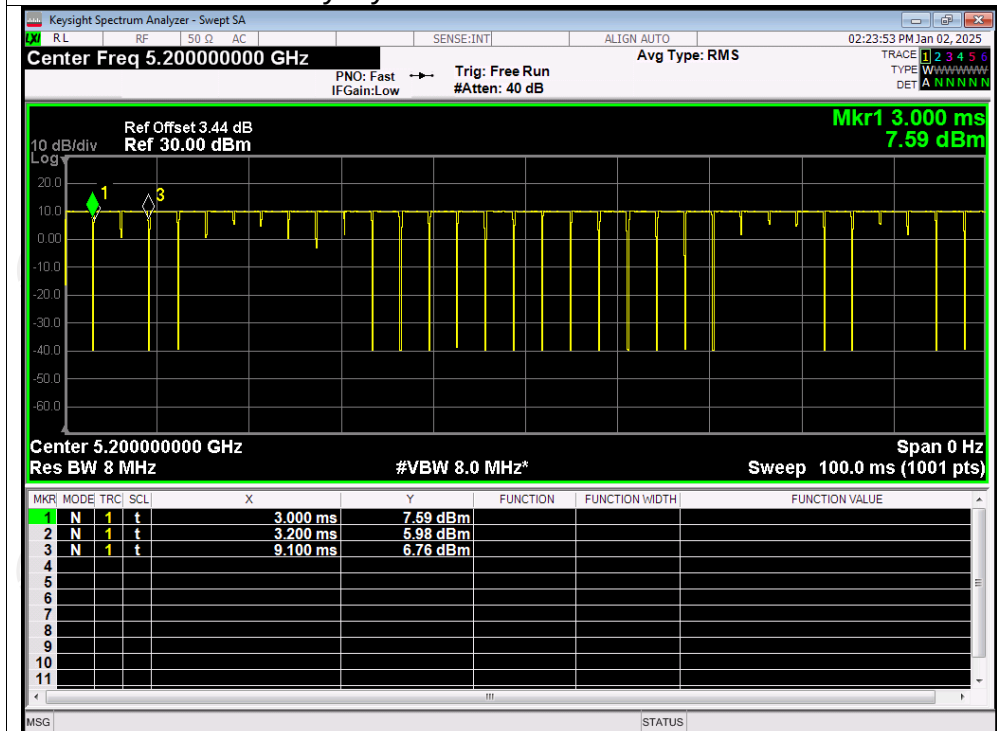


Duty Cycle NVNT ac40 5190MHz

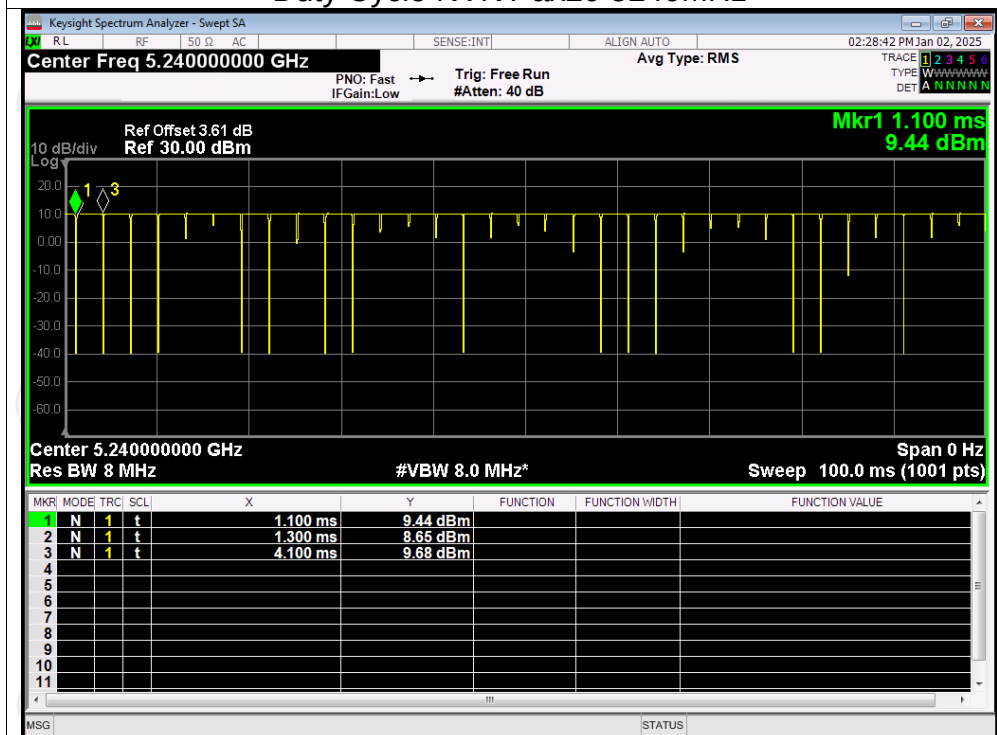




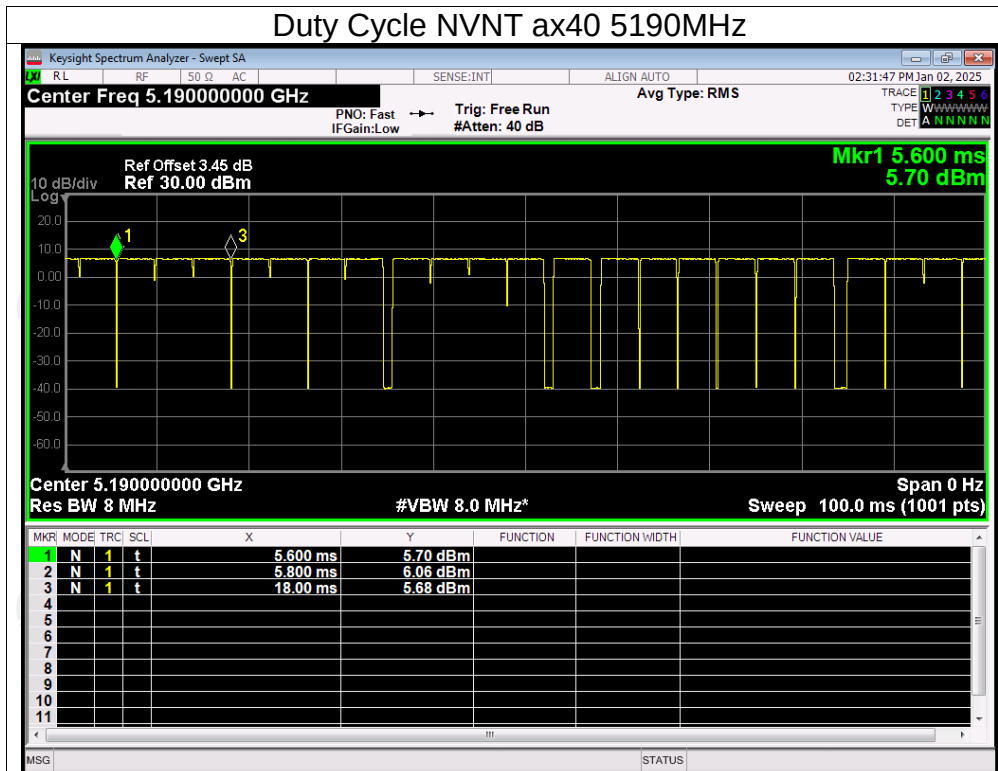
Duty Cycle NVNT ax20 5200MHz



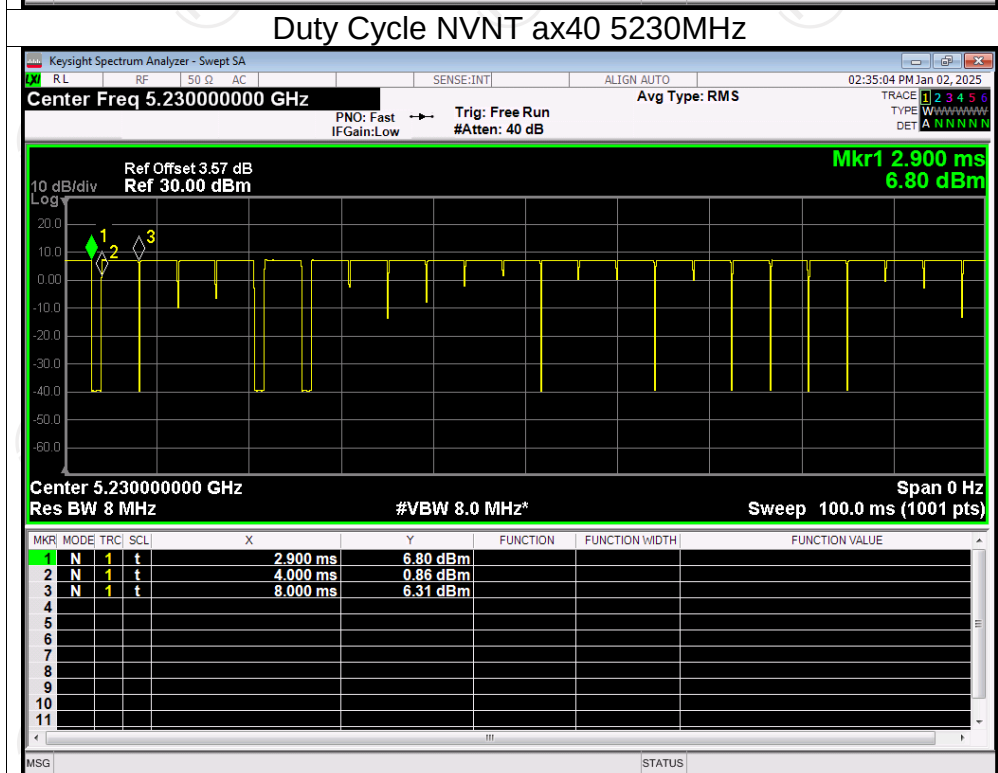
Duty Cycle NVNT ax20 5240MHz



Duty Cycle NVNT ax40 5190MHz

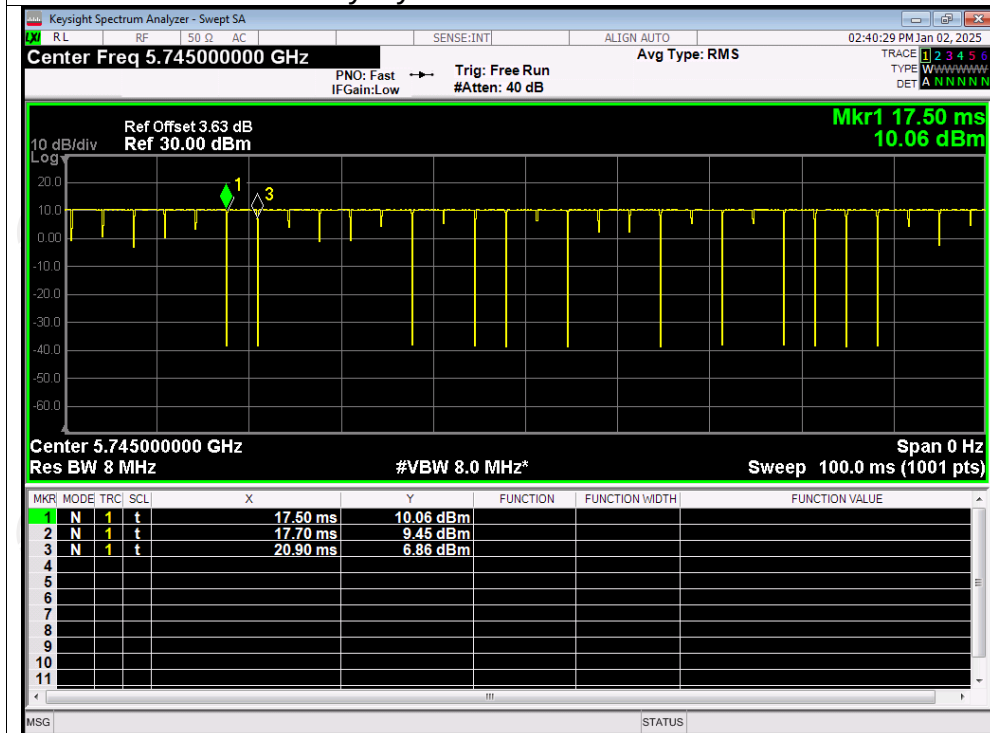


Duty Cycle NVNT ax40 5230MHz

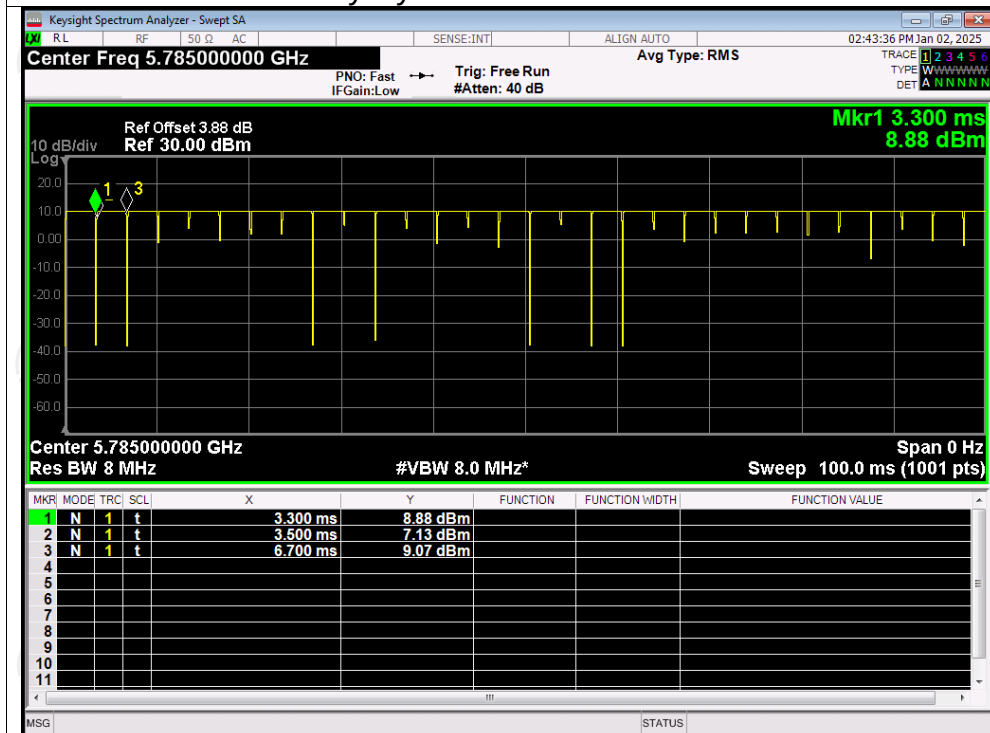


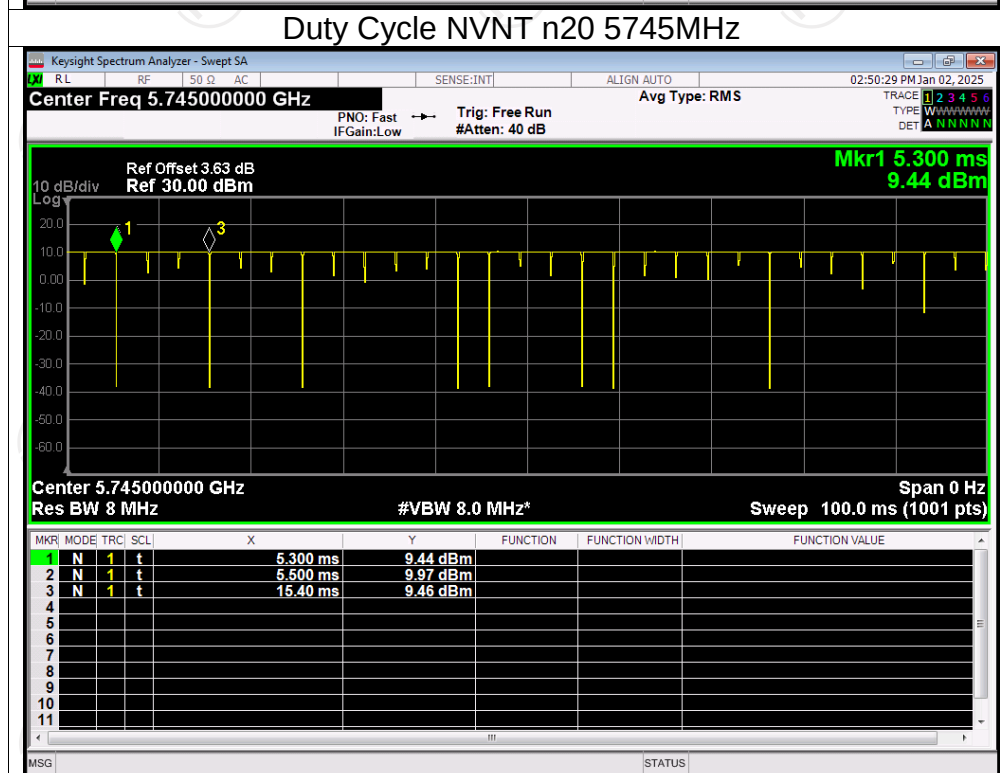
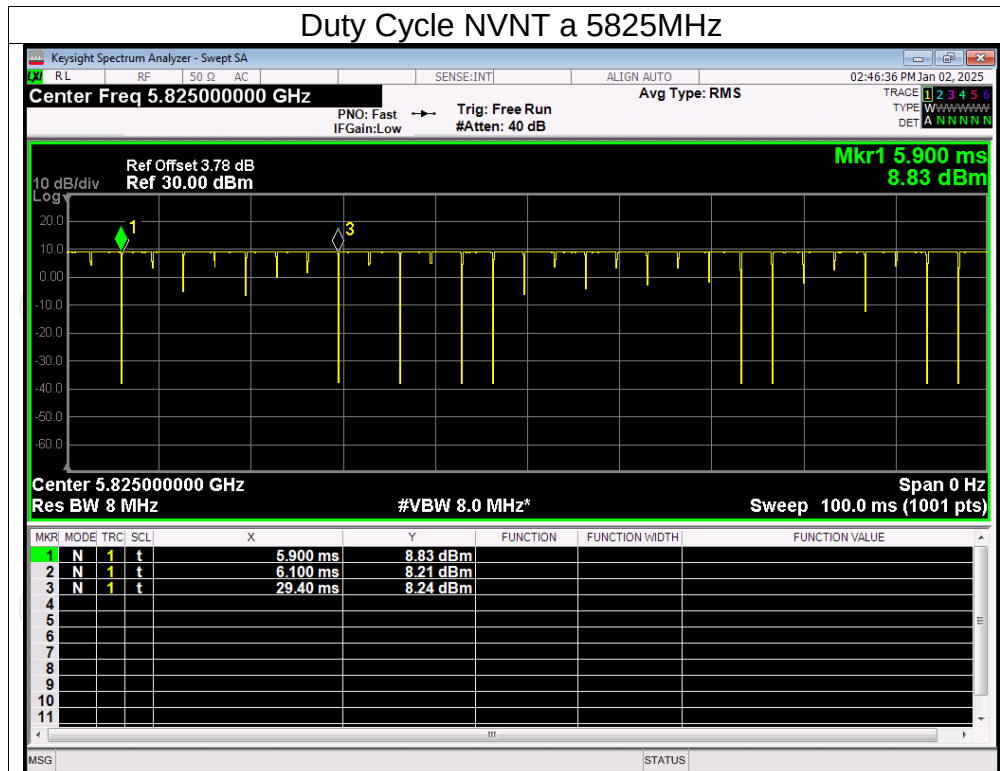
Test Graphs

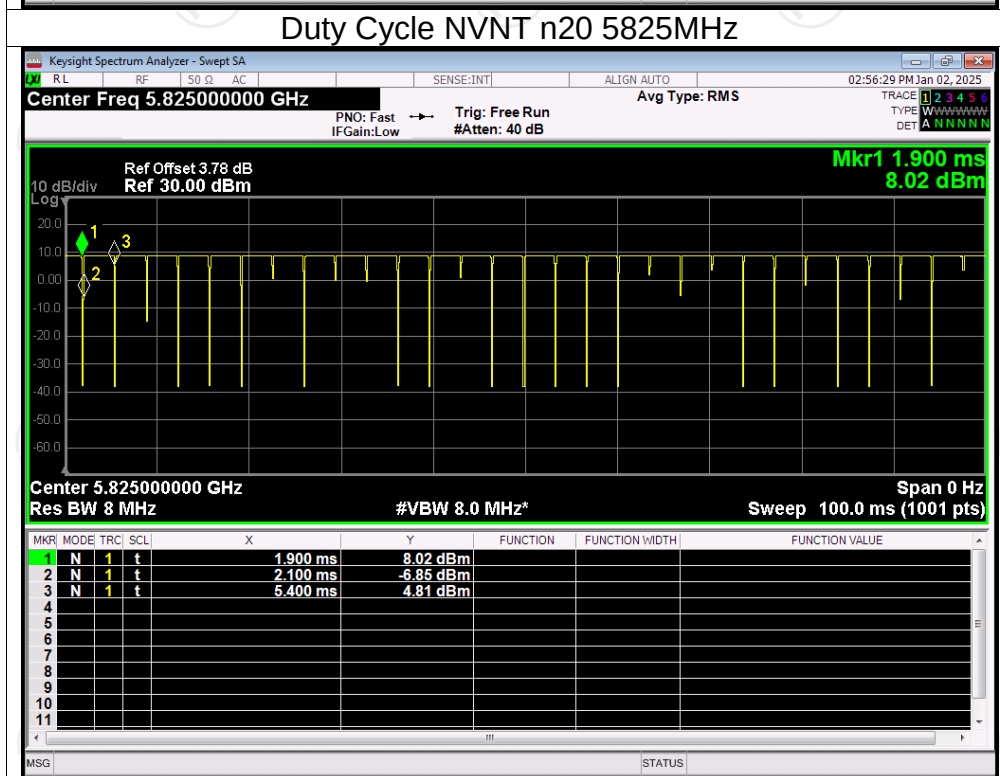
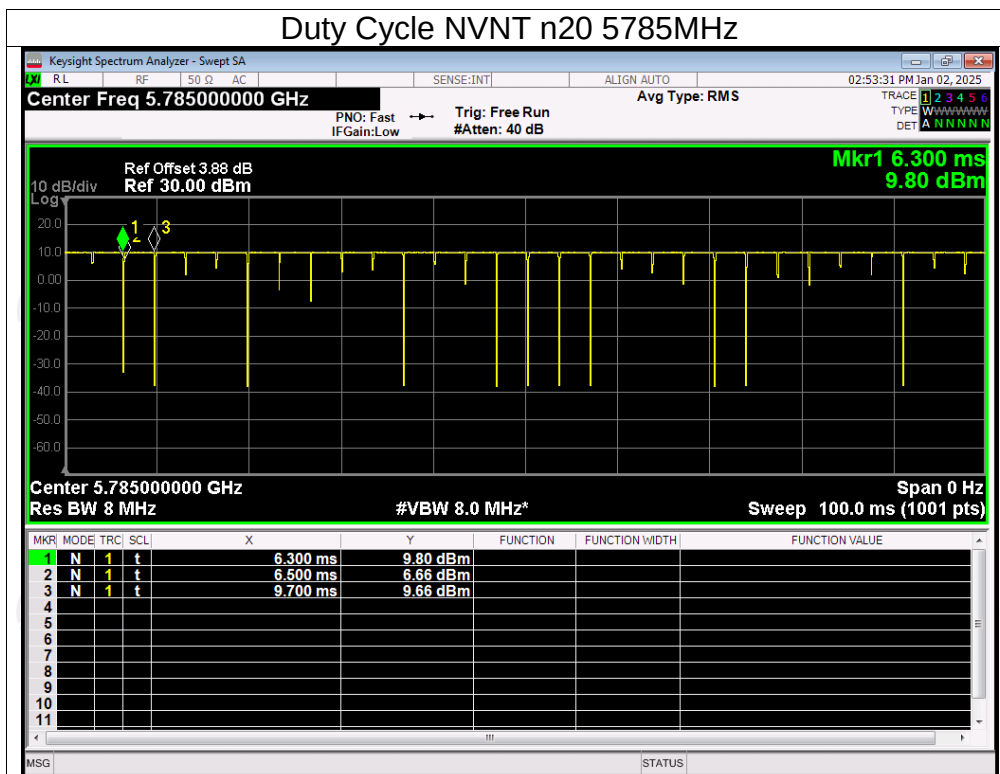
Duty Cycle NVNT a 5745MHz



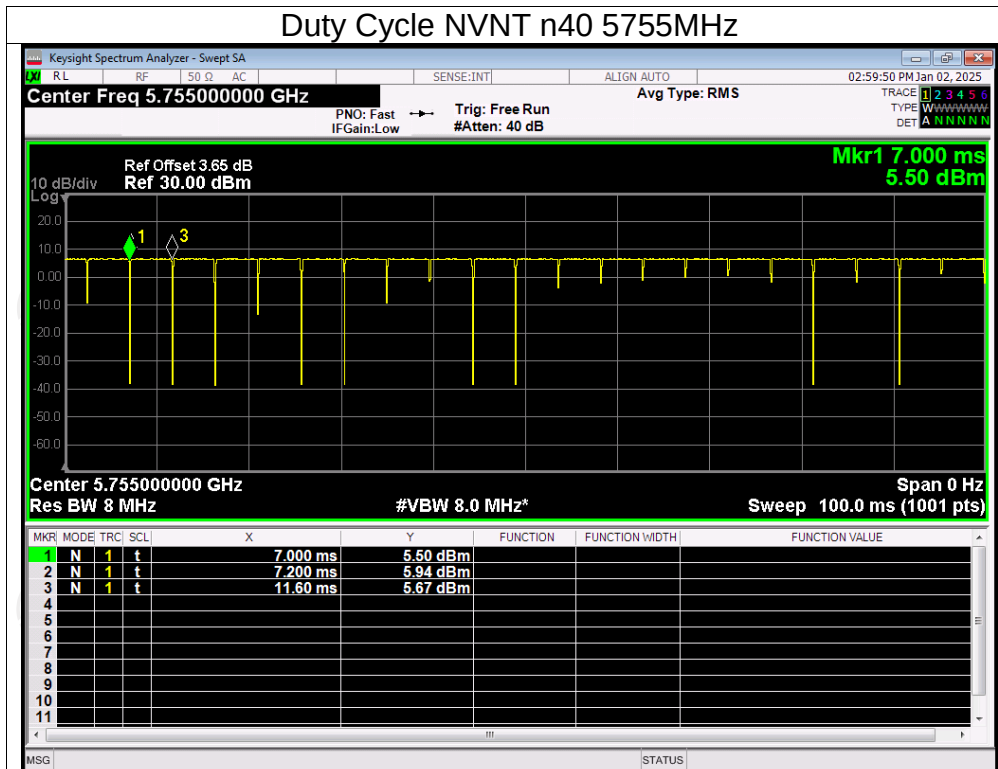
Duty Cycle NVNT a 5785MHz



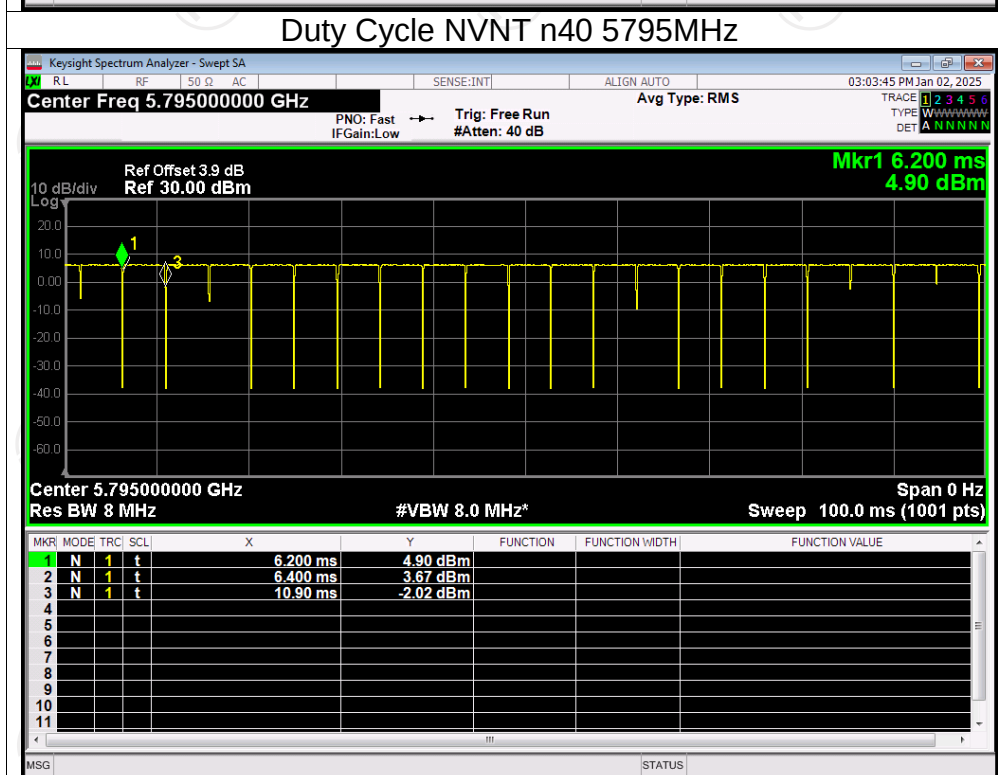


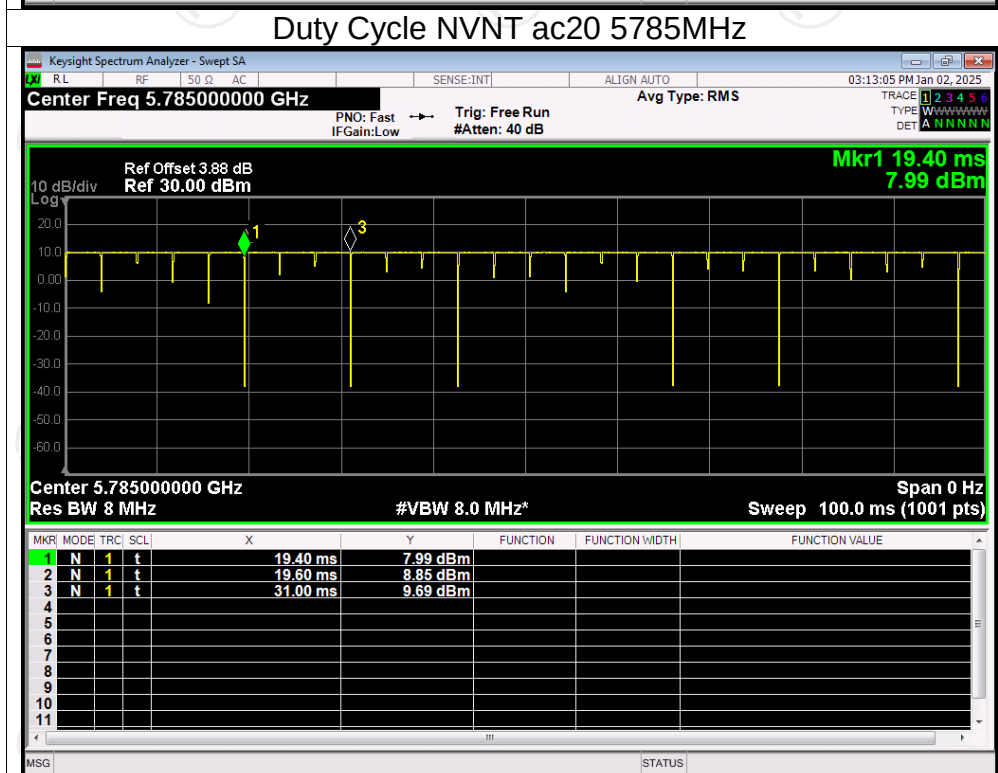
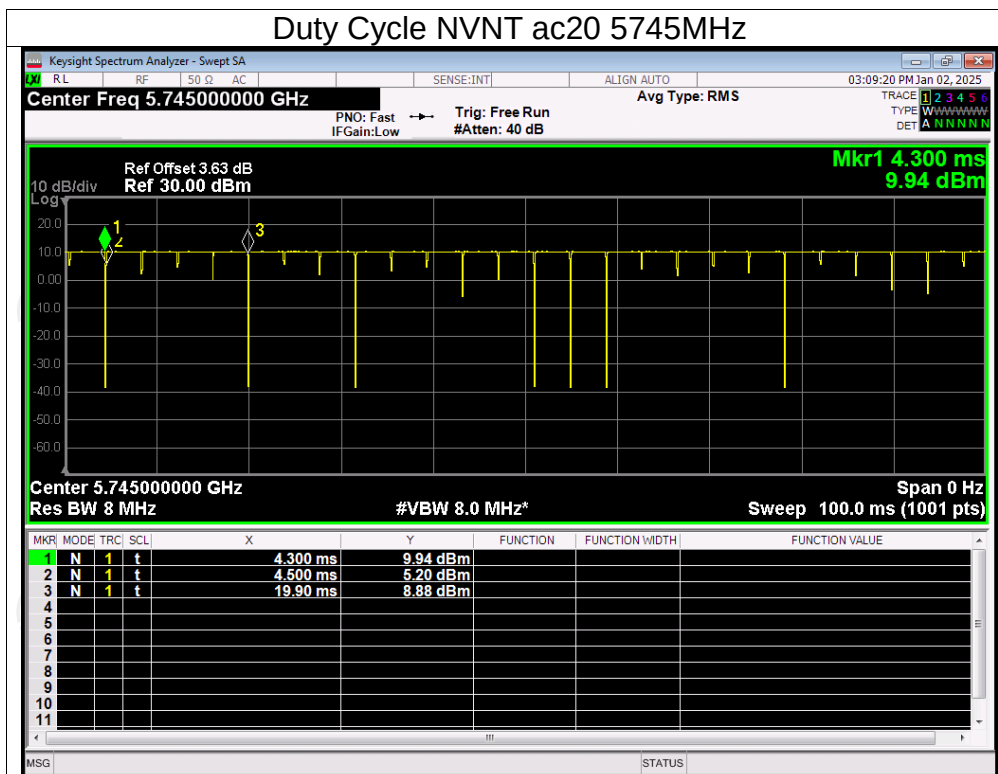


Duty Cycle NVNT n40 5755MHz

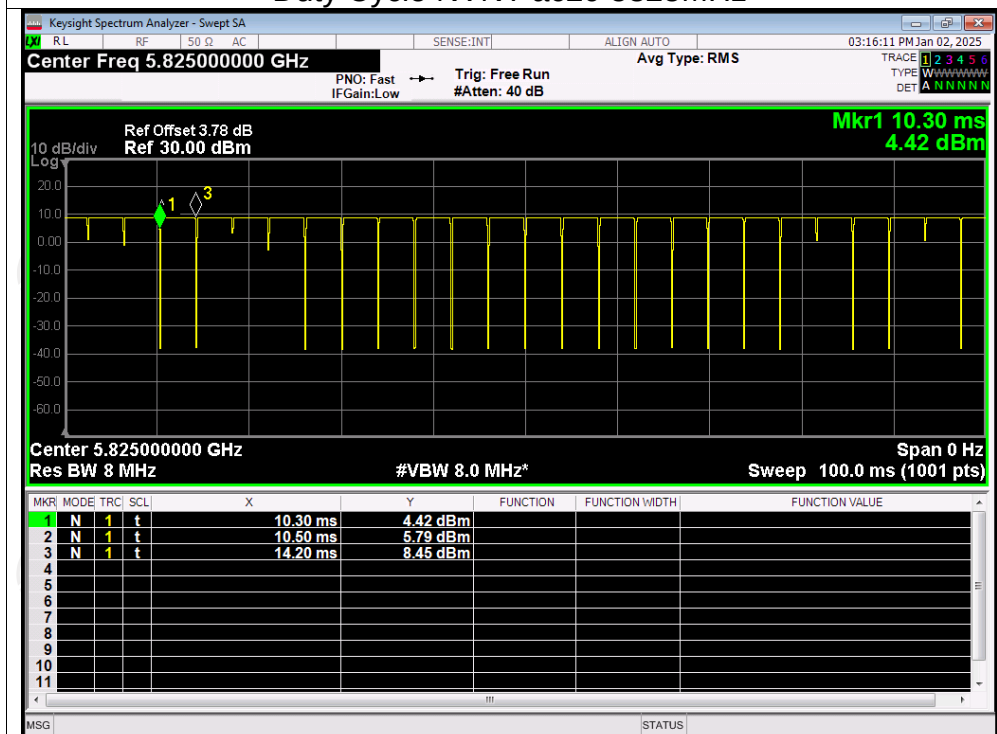


Duty Cycle NVNT n40 5795MHz

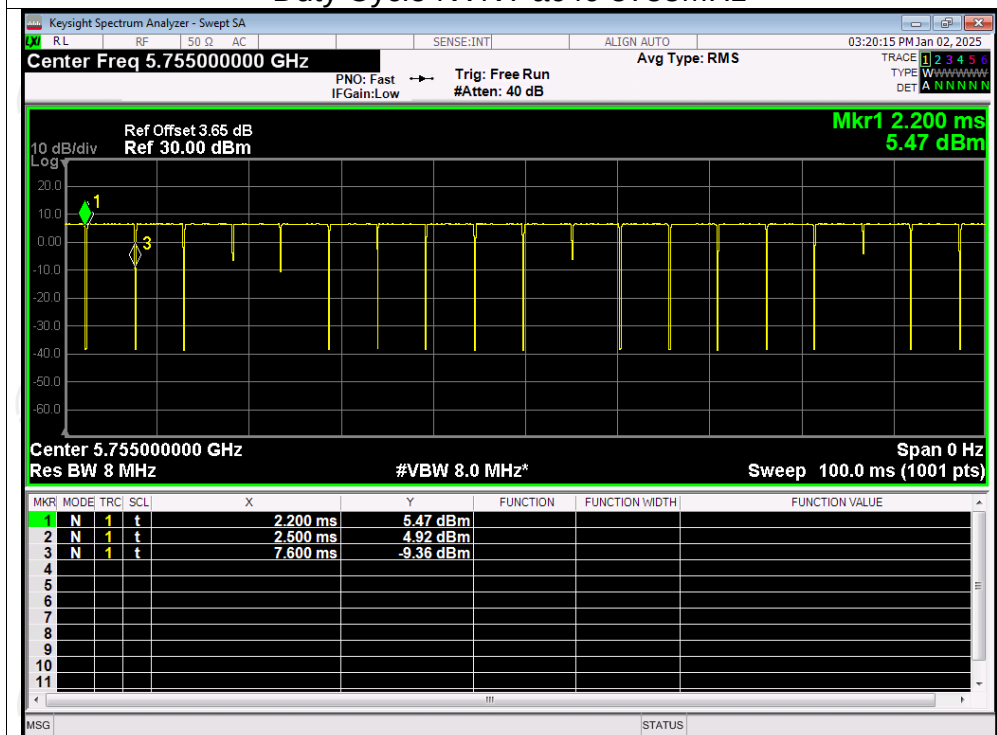




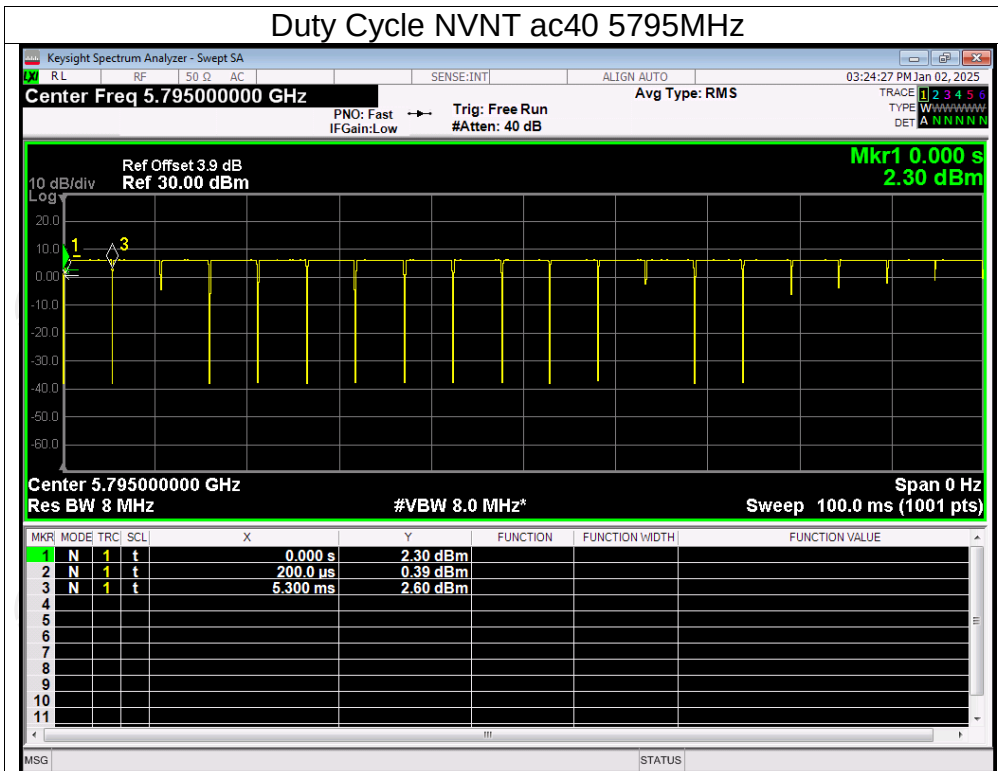
Duty Cycle NVNT ac20 5825MHz



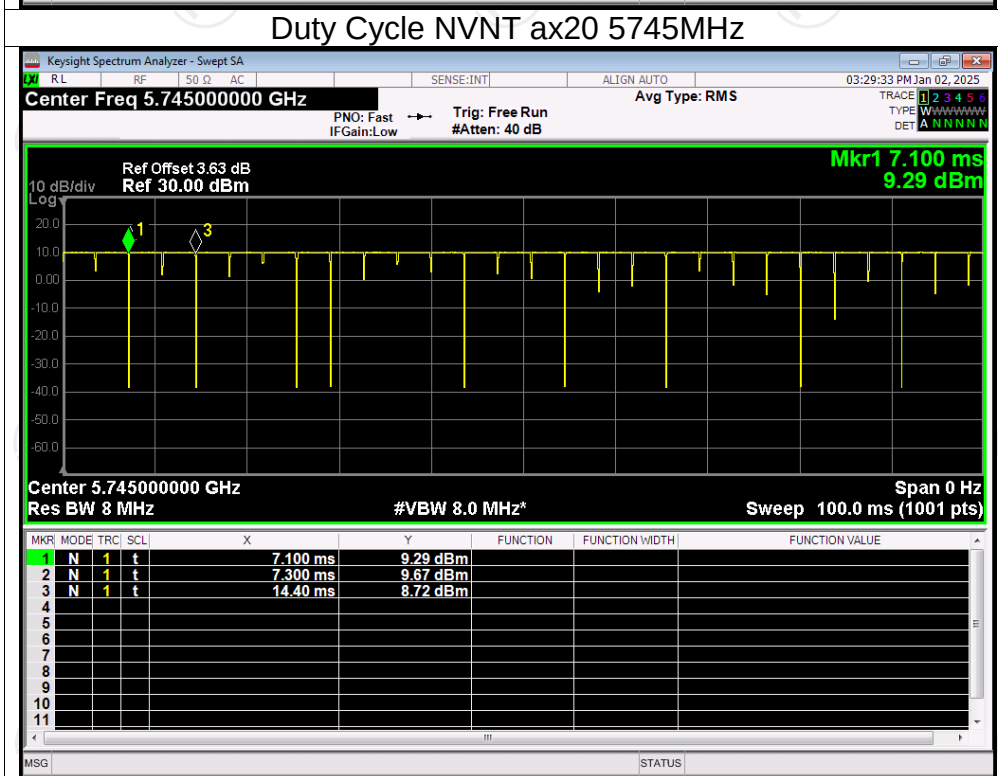
Duty Cycle NVNT ac40 5755MHz

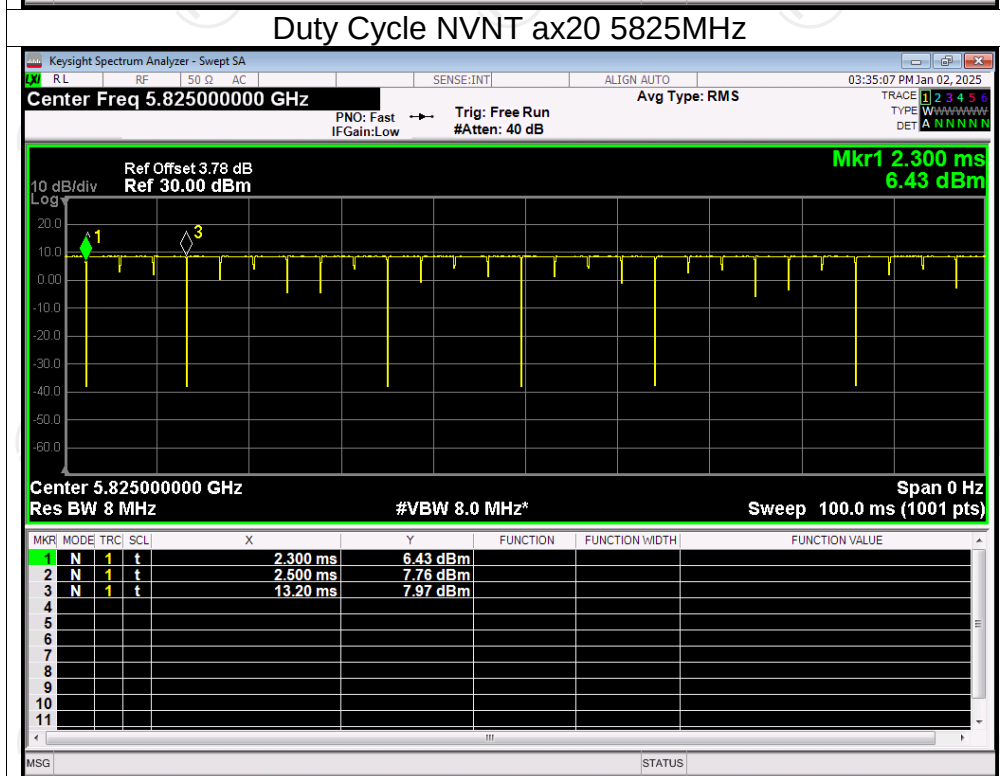
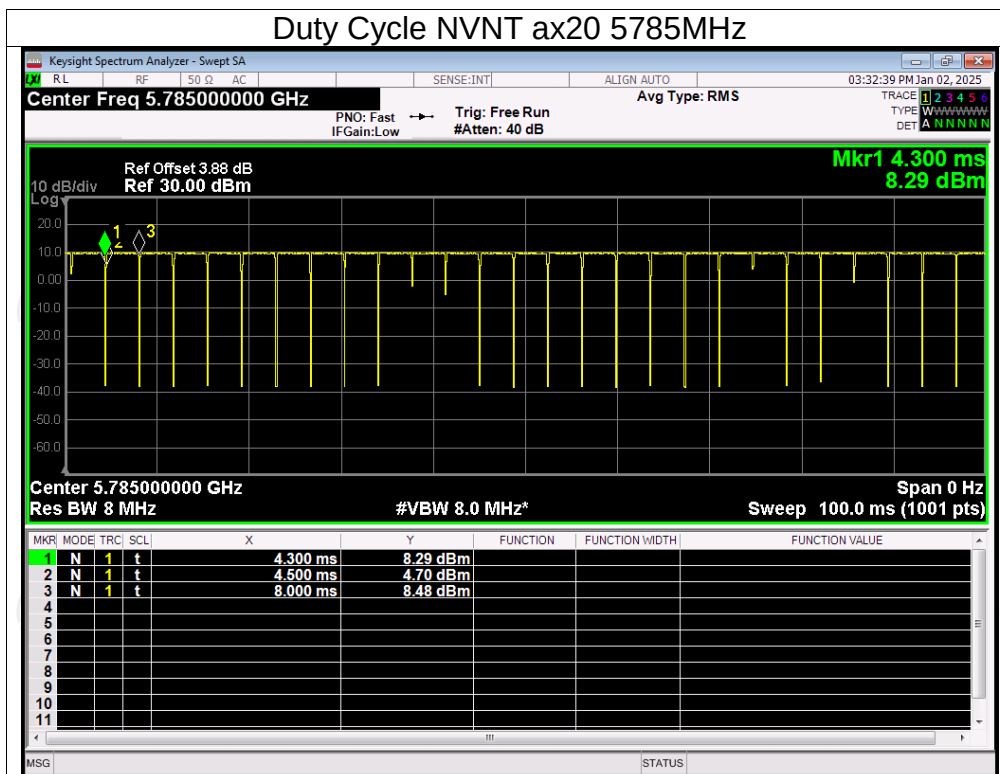


Duty Cycle NVNT ac40 5795MHz

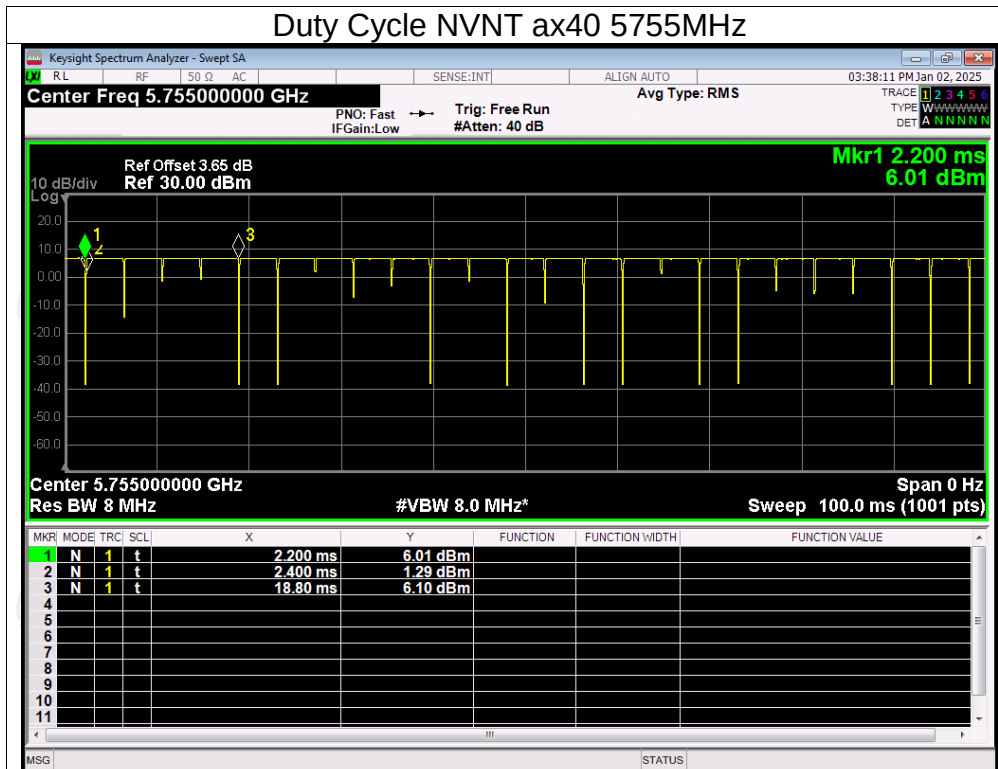


Duty Cycle NVNT ax20 5745MHz

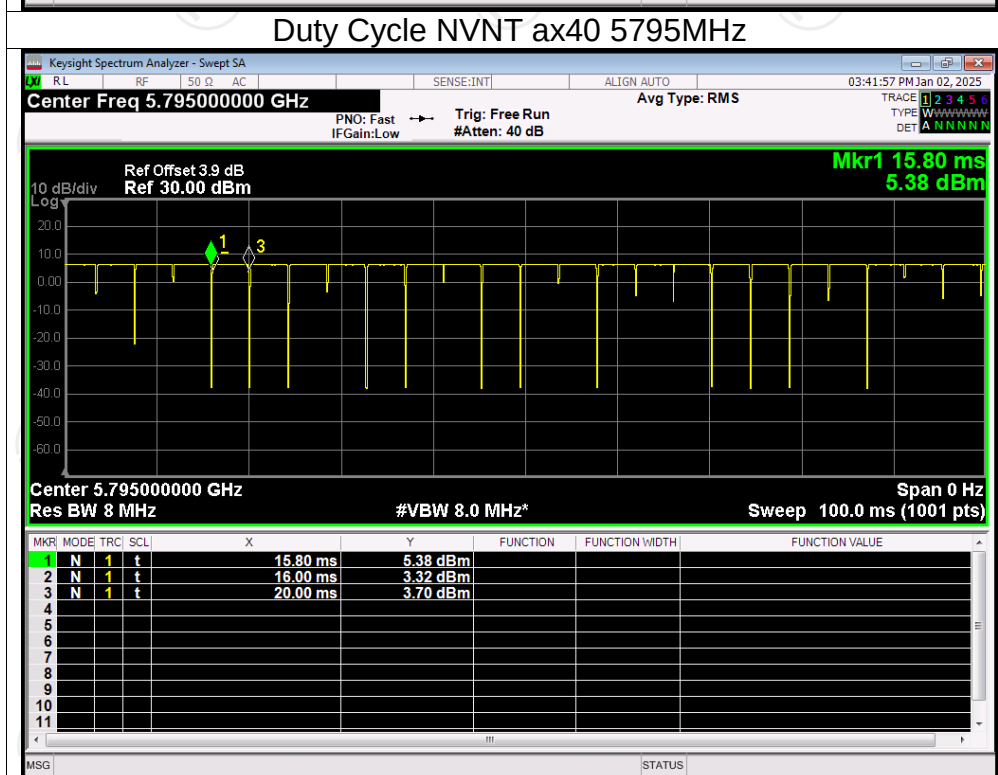




Duty Cycle NVNT ax40 5755MHz

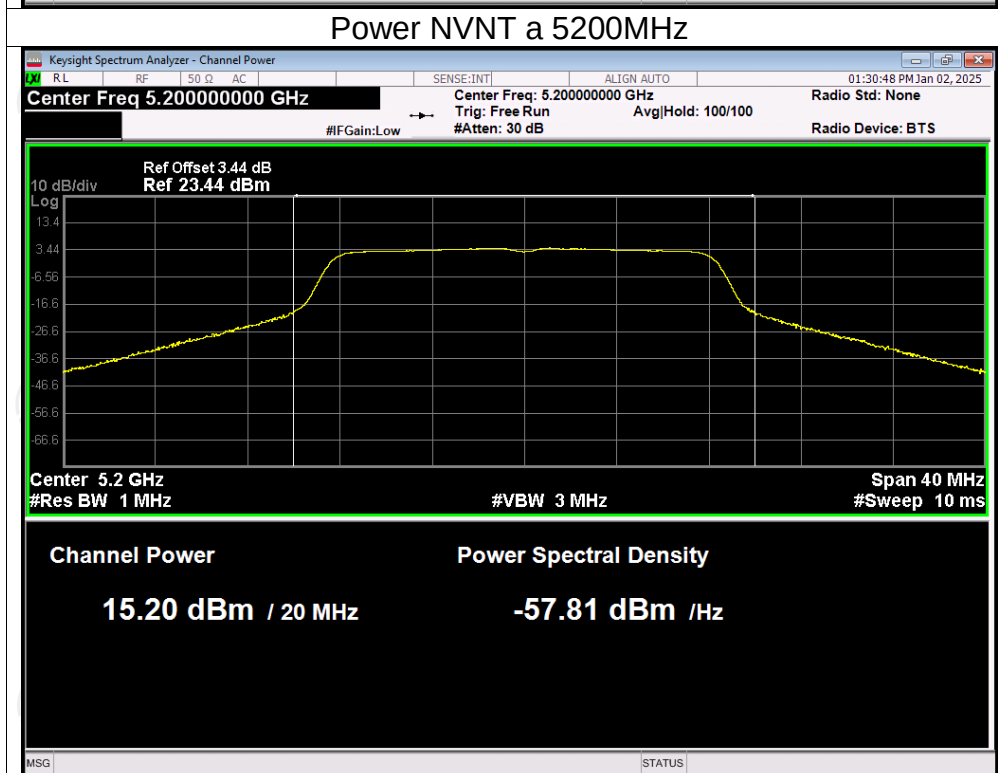
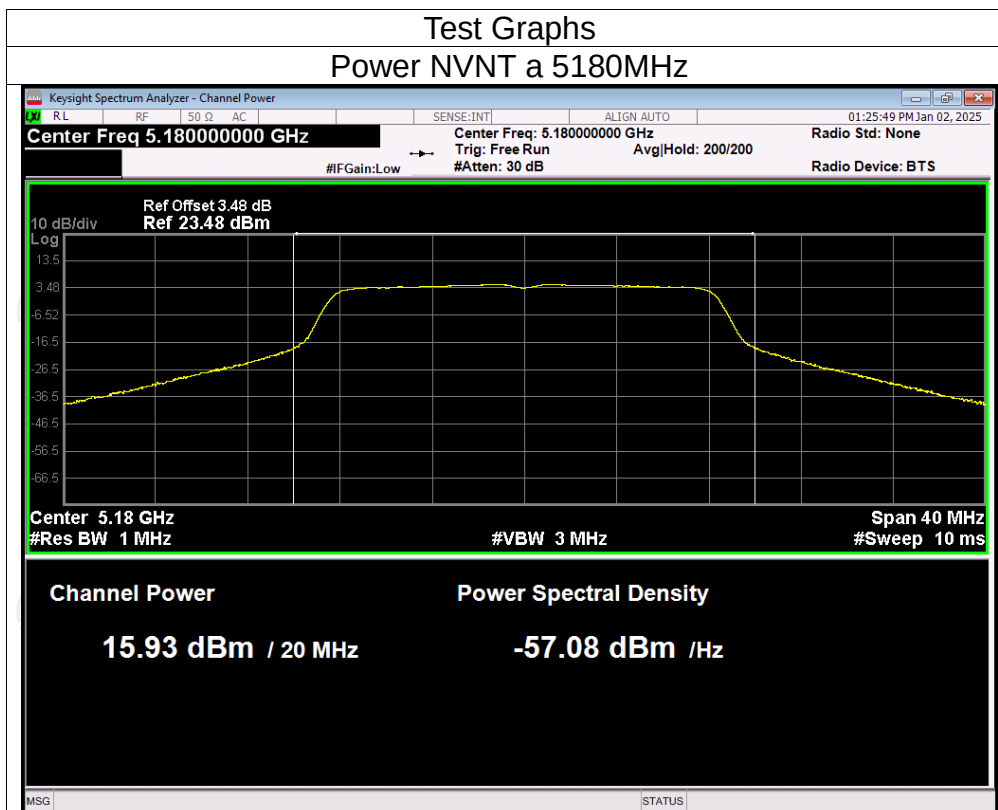


Duty Cycle NVNT ax40 5795MHz

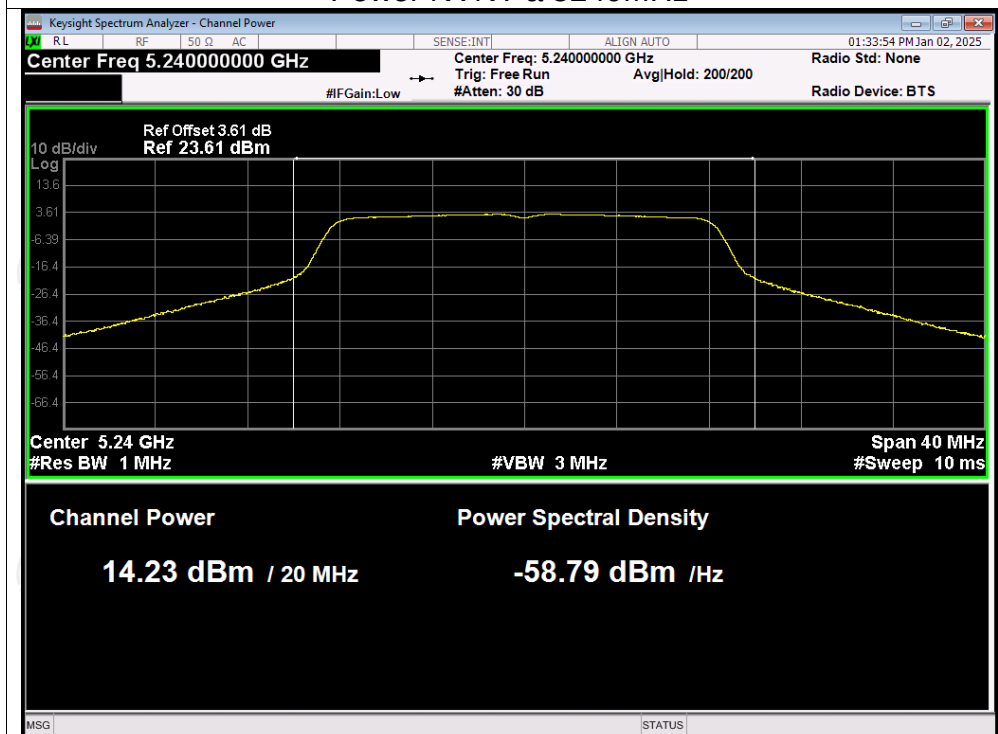


Maximum Conducted Output Power

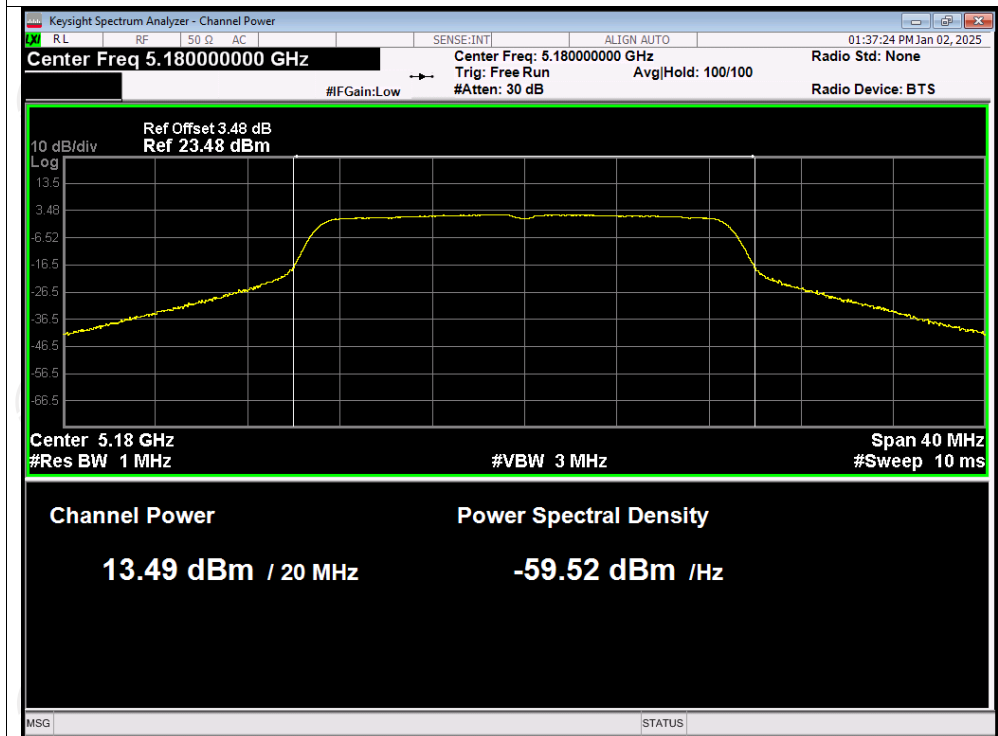
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	15.93	0.11	16.04	24	Pass
NVNT	a	5200	15.20	0	15.20	24	Pass
NVNT	a	5240	14.23	0	14.23	24	Pass
NVNT	n20	5180	13.49	0.14	13.63	24	Pass
NVNT	n20	5200	13.86	0	13.86	24	Pass
NVNT	n20	5240	13.97	0.25	14.22	24	Pass
NVNT	n40	5190	13.75	0.12	13.87	24	Pass
NVNT	n40	5230	14.00	0	14.00	24	Pass
NVNT	ac20	5180	13.46	0.10	13.56	24	Pass
NVNT	ac20	5200	13.86	0	13.86	24	Pass
NVNT	ac20	5240	14.10	0	14.10	24	Pass
NVNT	ac40	5190	13.65	0	13.65	24	Pass
NVNT	ac40	5230	14.00	0	14.00	24	Pass
NVNT	ax20	5180	13.5	0.14	13.64	24	Pass
NVNT	ax20	5200	13.87	0.10	13.97	24	Pass
NVNT	ax20	5240	14.09	0	14.09	24	Pass
NVNT	ax40	5190	13.51	0.24	13.75	24	Pass
NVNT	ax40	5230	13.84	0.16	14.00	24	Pass
NVNT	a	5745	13.89	0	13.89	30	Pass
NVNT	a	5785	13.88	0	13.88	30	Pass
NVNT	a	5825	12.82	0	12.82	30	Pass
NVNT	n20	5745	14.10	0	14.10	30	Pass
NVNT	n20	5785	13.98	0	13.98	30	Pass
NVNT	n20	5825	12.83	0	12.83	30	Pass
NVNT	n40	5755	14.01	0	14.01	30	Pass
NVNT	n40	5795	13.84	0	13.84	30	Pass
NVNT	ac20	5745	14.20	0	14.20	30	Pass
NVNT	ac20	5785	14.01	0	14.01	30	Pass
NVNT	ac20	5825	12.90	0.10	13.00	30	Pass
NVNT	ac40	5755	14.03	0	14.03	30	Pass
NVNT	ac40	5795	13.81	0	13.81	30	Pass
NVNT	ax20	5745	14.20	0	14.20	30	Pass
NVNT	ax20	5785	13.98	0.11	14.09	30	Pass
NVNT	ax20	5825	13.05	0	13.05	27	Pass
NVNT	ax40	5755	14.04	0	14.04	30	Pass
NVNT	ax40	5795	13.73	0	13.73	30	Pass



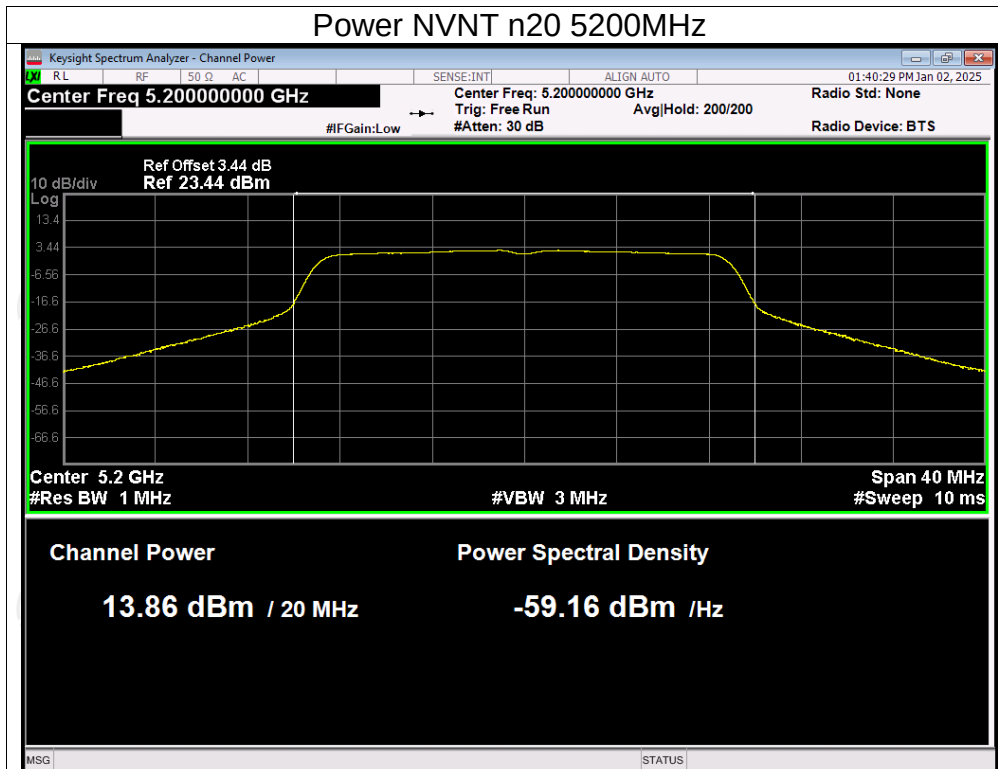
Power NVNT a 5240MHz



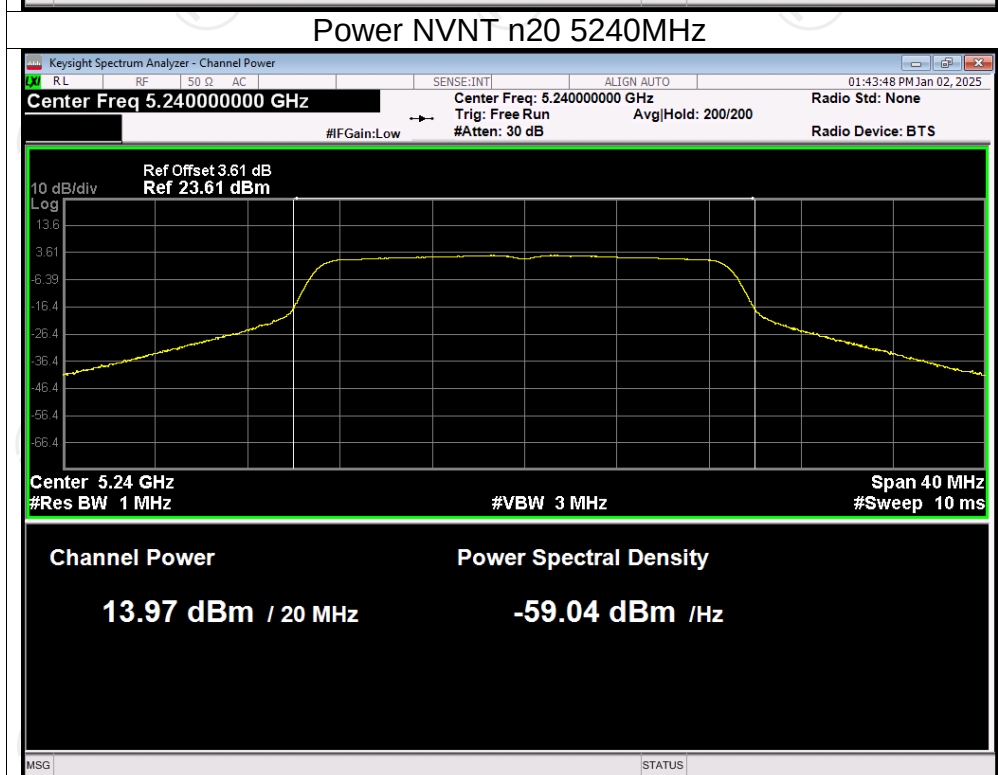
Power NVNT n20 5180MHz



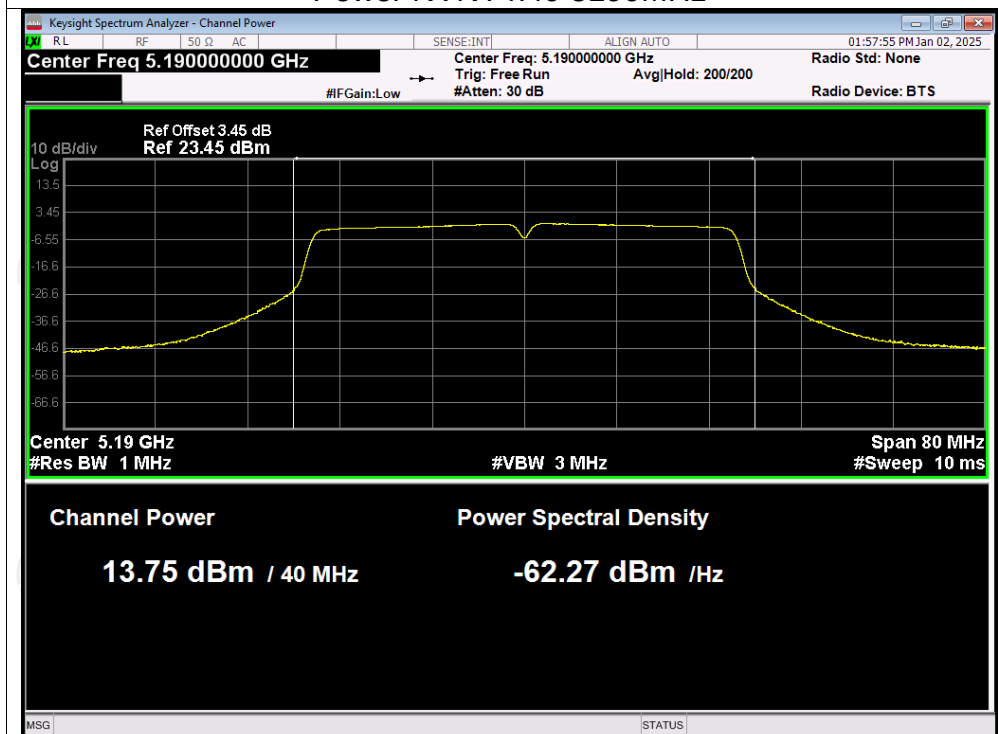
Power NVNT n20 5200MHz



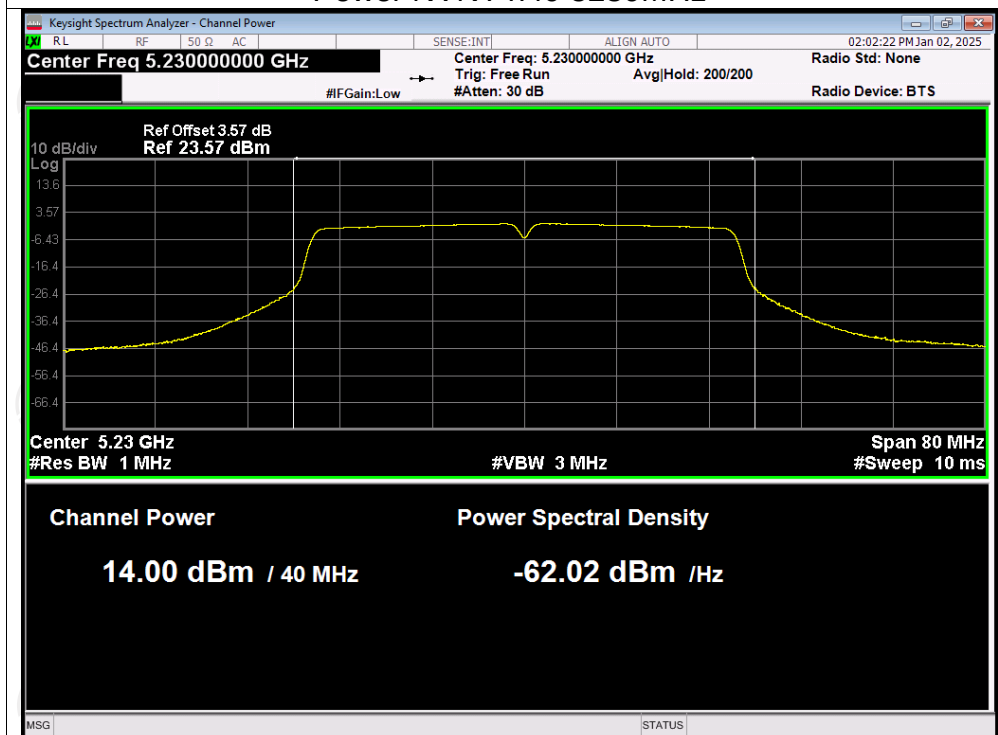
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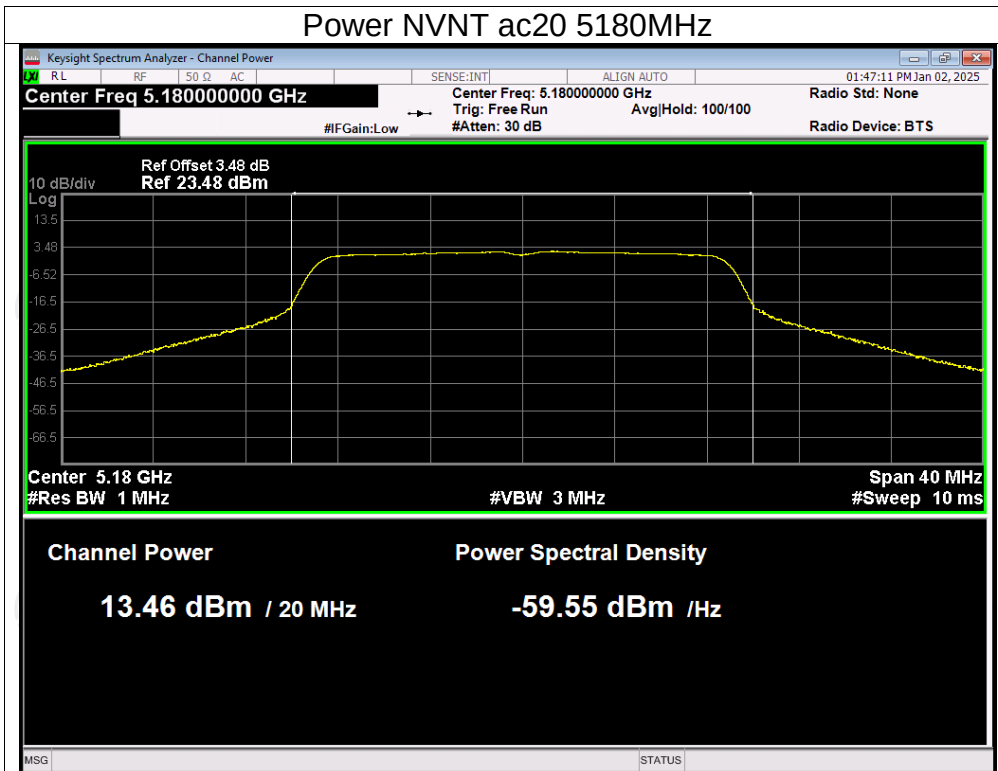
Power NVNT n40 5190MHz



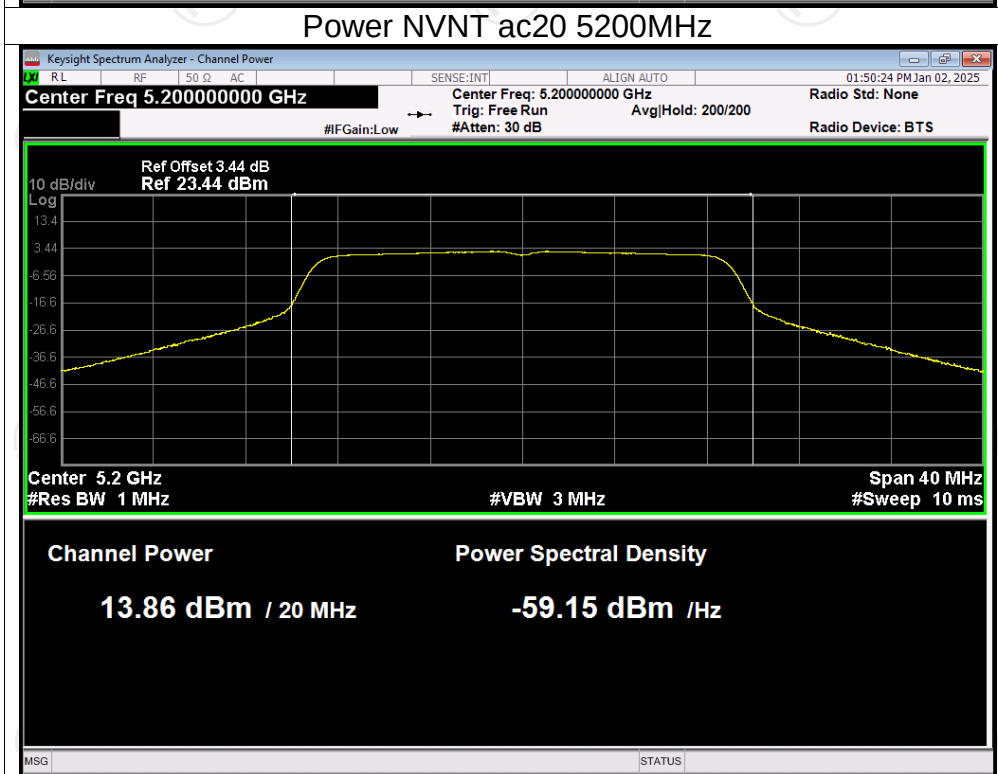
Power NVNT n40 5230MHz



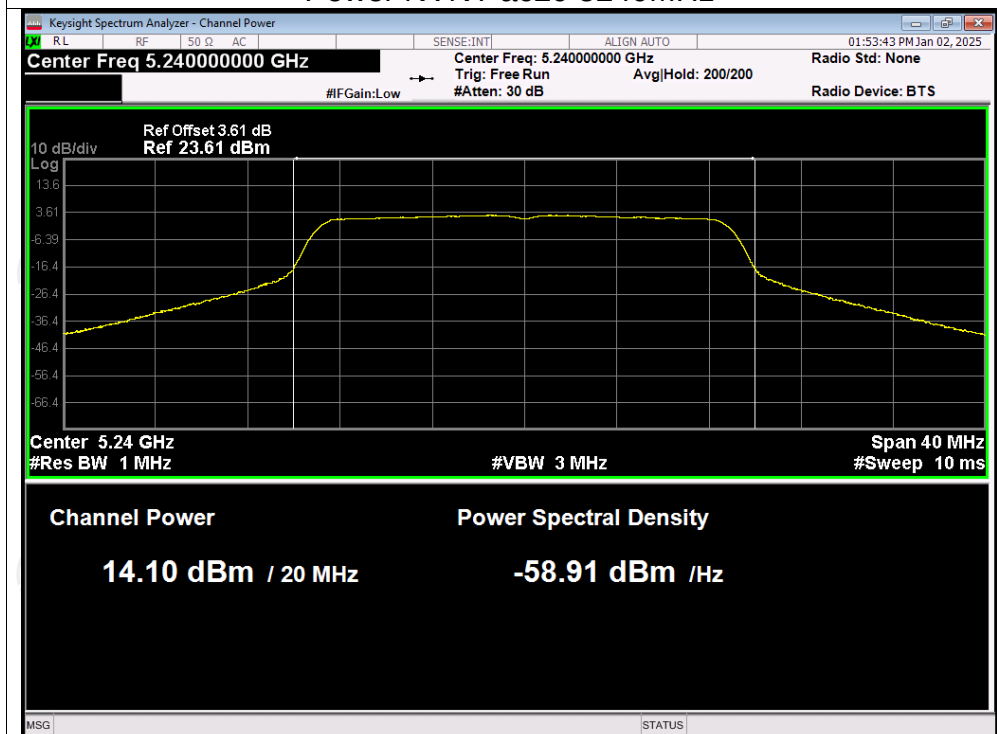
Power NVNT ac20 5180MHz



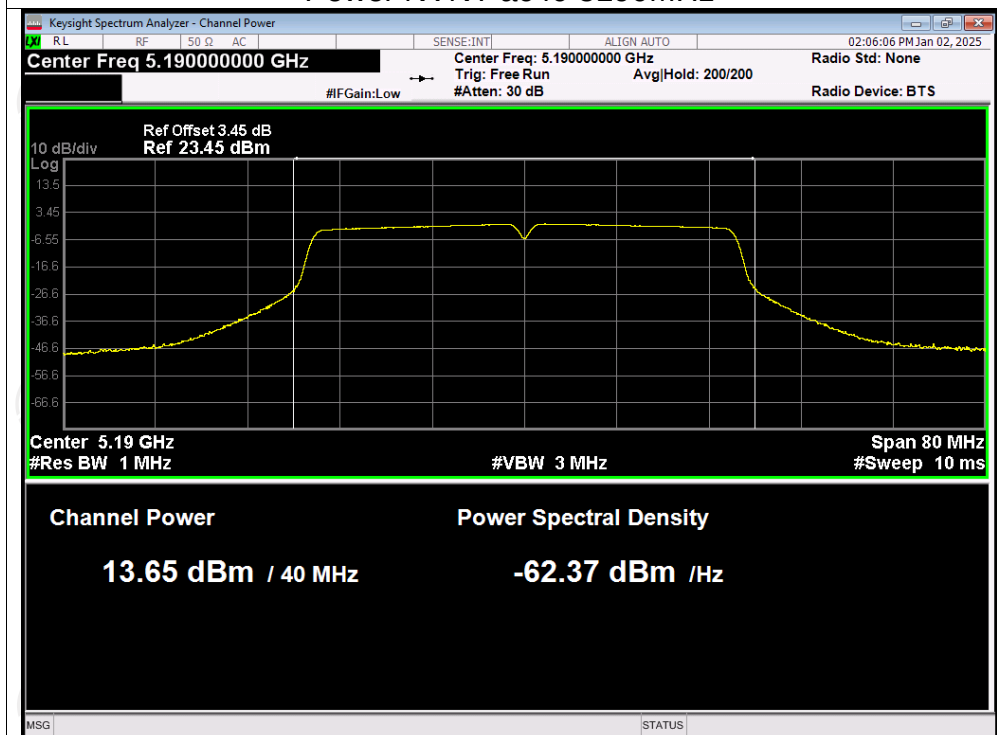
Power NVNT ac20 5200MHz



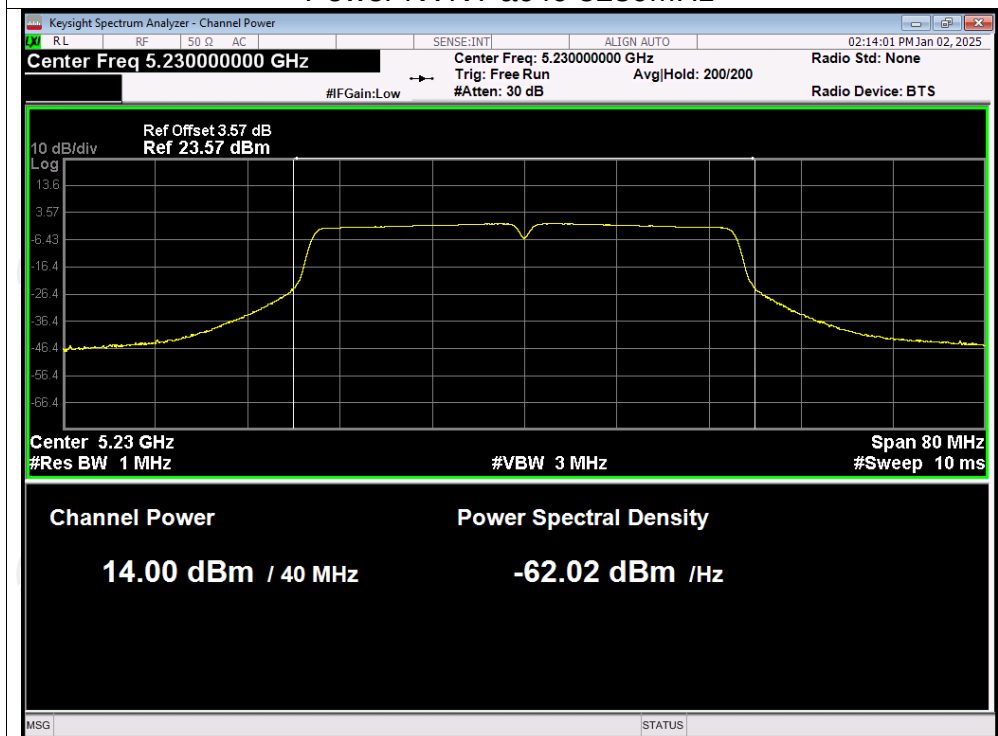
Power NVNT ac20 5240MHz



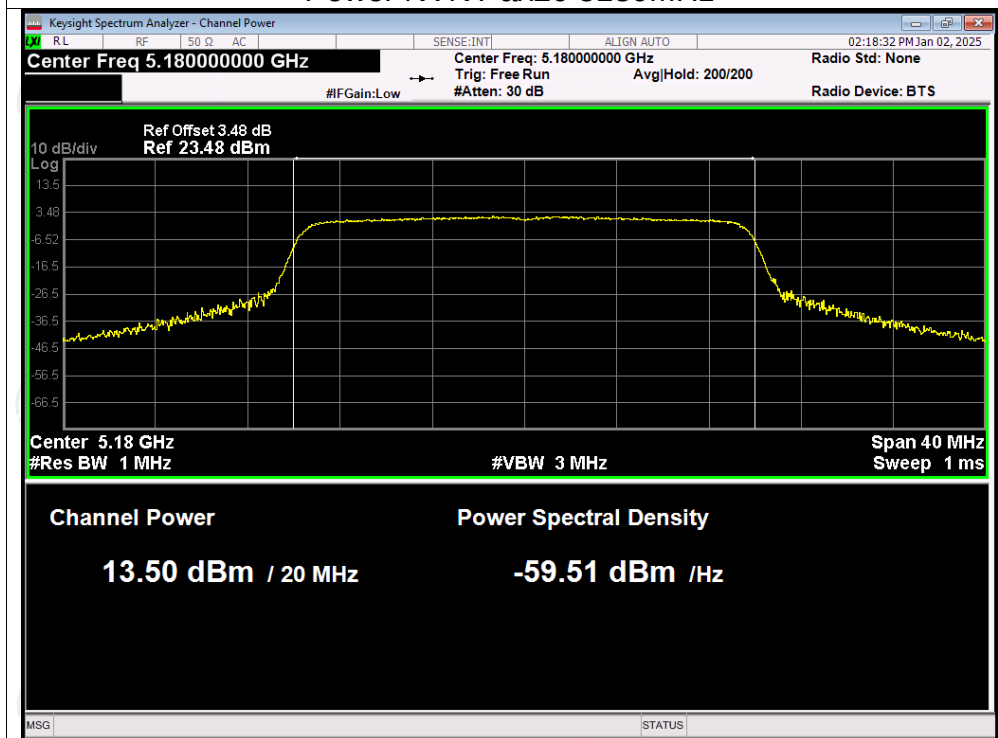
Power NVNT ac40 5190MHz



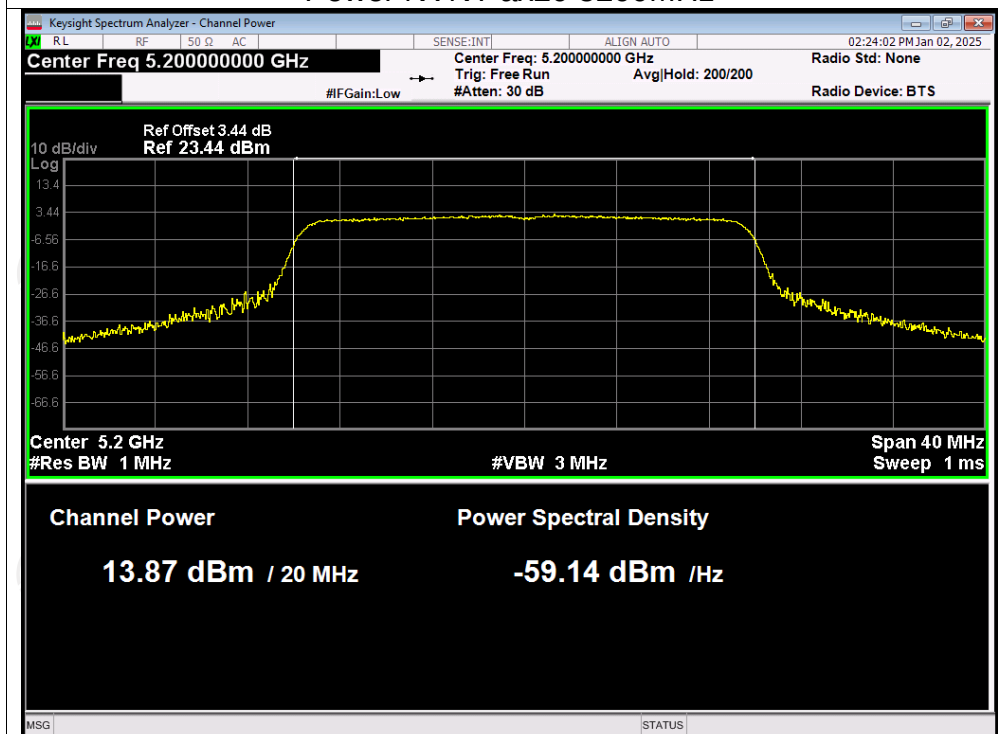
Power NVNT ac40 5230MHz



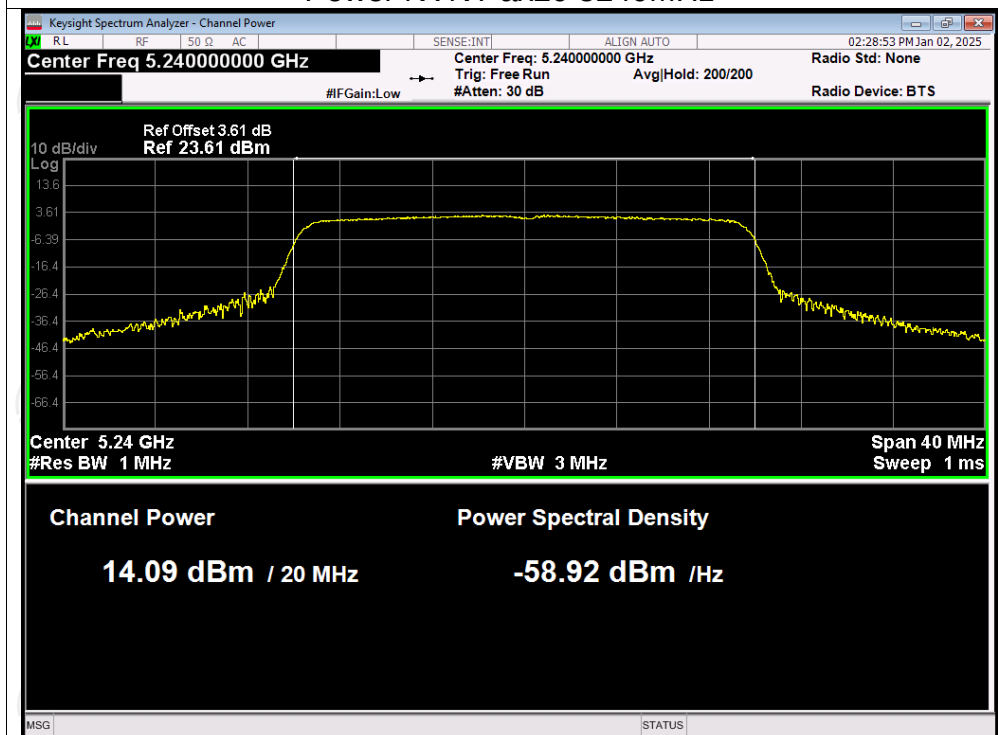
Power NVNT ax20 5180MHz



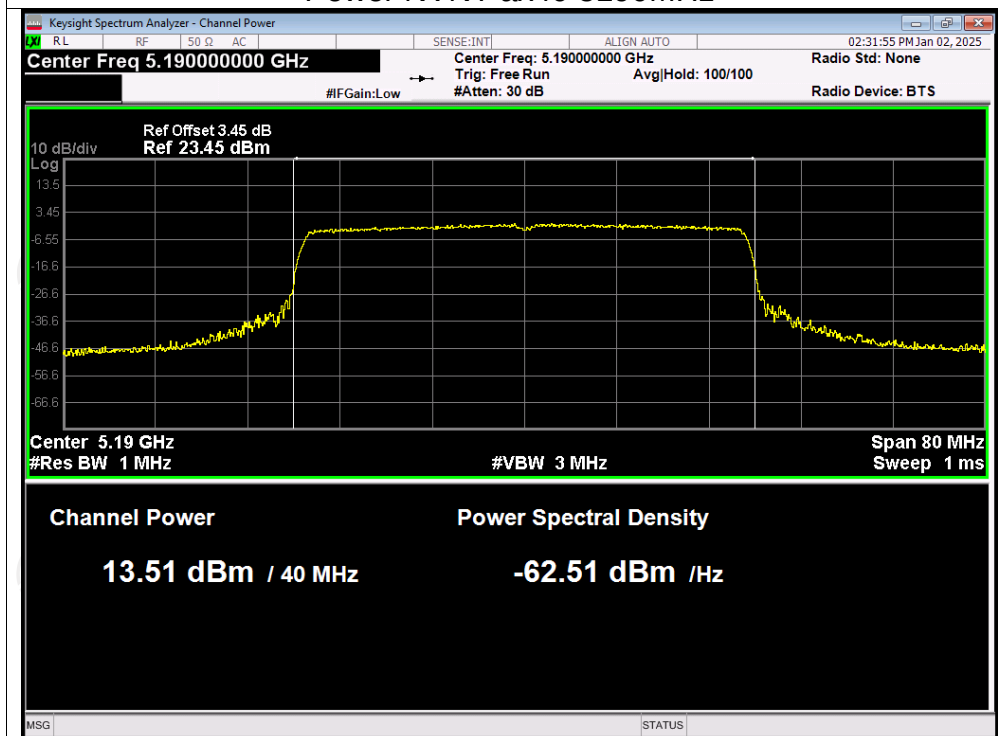
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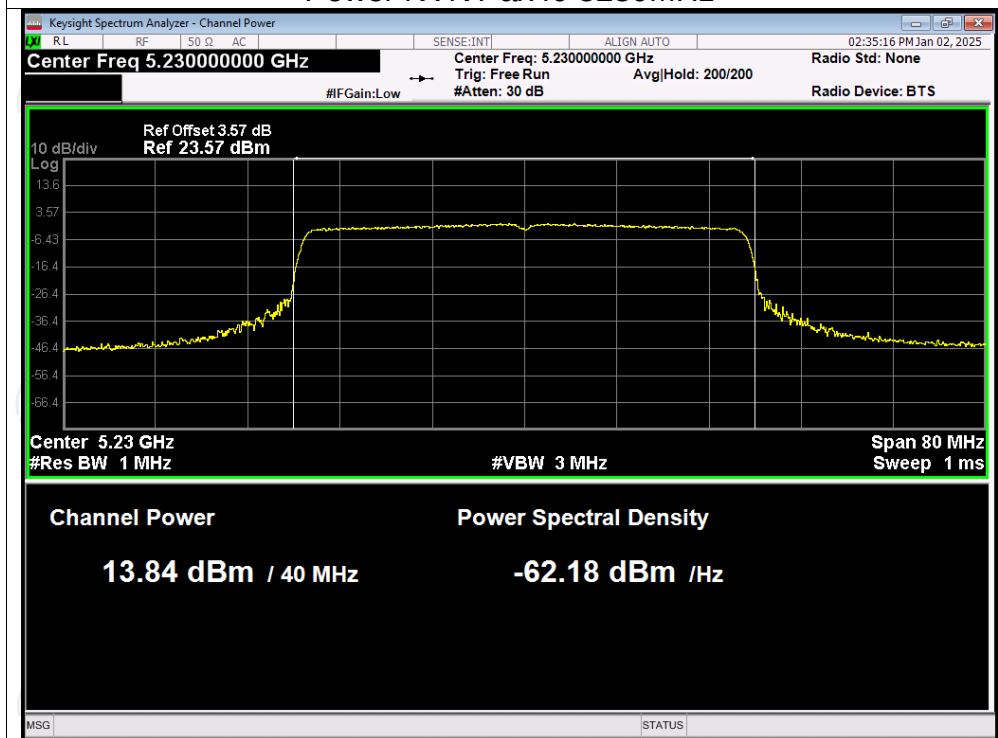
Power NVNT ax20 5240MHz



Power NVNT ax40 5190MHz

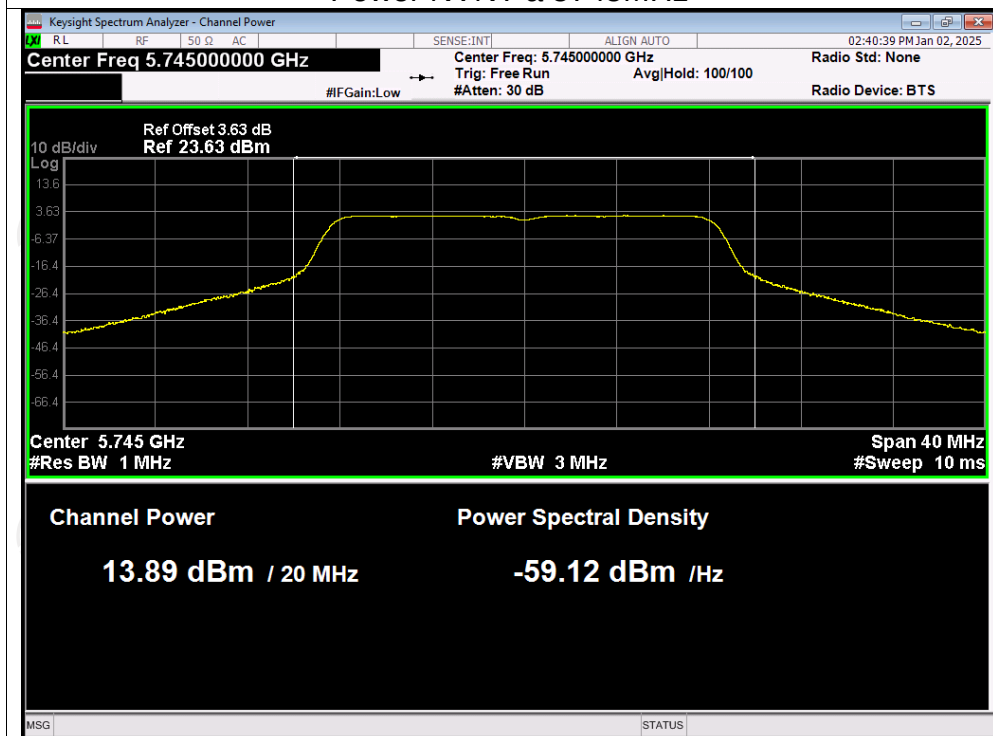


Power NVNT ax40 5230MHz

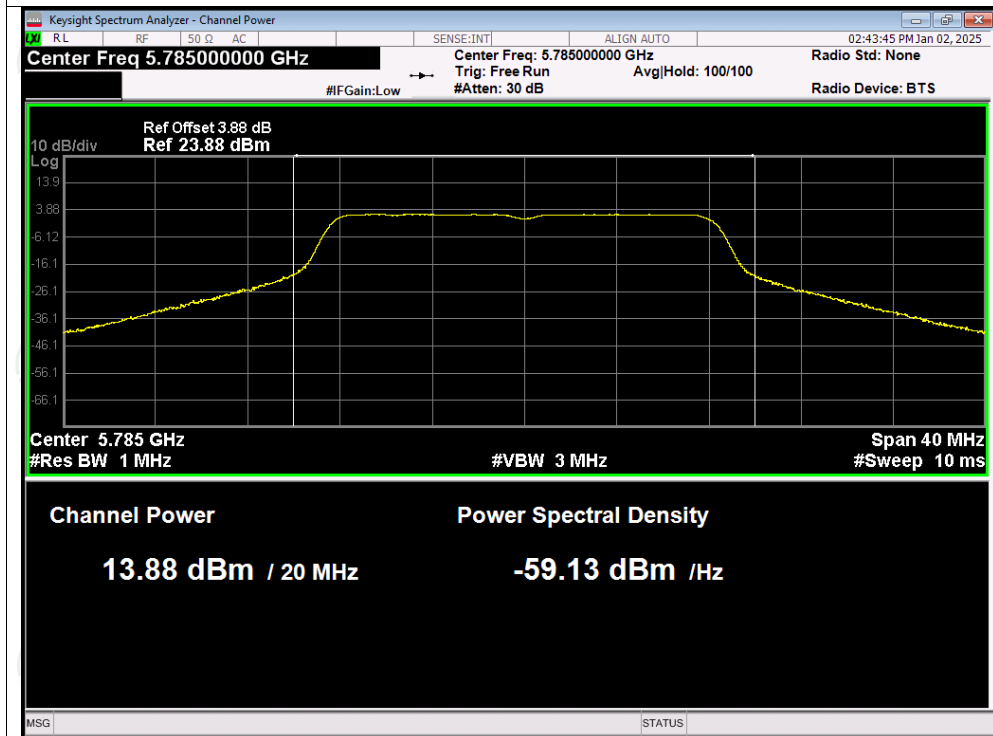


Test Graphs

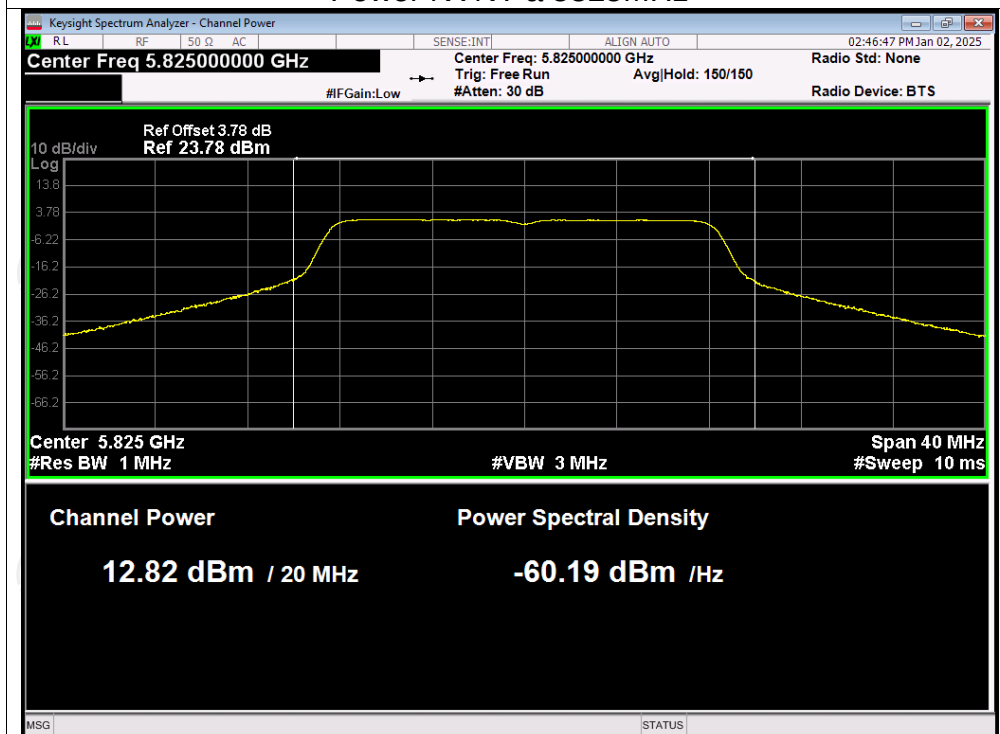
Power NVNT a 5745MHz



Power NVNT a 5785MHz



Power NVNT a 5825MHz



Power NVNT n20 5745MHz

