TEST REPORT

Report No.:	BCTC2409110896-4E
Applicant:	Radxa Computer (Shenzhen) Co.,Ltd.
Product Name:	Radxa X4
Test Model:	Radxa X4 D8E64R30W16, Radxa X4 D4E32R30W16, Radxa X4 D16E256R30W16
Tested Date:	2024-09-30 to 2025-03-10
Issued Date:	2025-03-10

Shenzhen BCTC Testing Co., Ltd.

FCC ID: 2BC6T-D8E

Product Name:	Radxa X4
Trademark:	radxa®
Model/Type Reference:	Radxa X4 D8E64R30W16, Radxa X4 D4E32R30W16, Radxa X4 D16E256R30W16 Radxa X4 D4E0R30W16, Radxa X4 D8E0R30W16, Radxa X4 D12E128R30W16, Radxa X4 D12E0R30W16, Radxa X4 D16E0R30W16
Prepared For:	Radxa Computer (Shenzhen) Co.,Ltd.
Address:	1602, Smart Valley, tiezai Road, Gongle community, Xixiang, Baoan, Shenzhen, China
Manufacturer:	Radxa Computer (Shenzhen) Co.,Ltd.
Address:	1602, Smart Valley, tiezai Road, Gongle community, Xixiang, Baoan, Shenzhen, China
Prepared By:	Shenzhen BCTC Testing Co., Ltd.
Address:	1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date:	2024-09-30
Sample tested Date:	2024-09-30 to 2025-03-10
Issue Date:	2025-03-10
Report No.:	BCTC2409110896-4E
Test Standards:	FCC Part15 15.407 ANSI C63.10-2013 KDB 662911 D01 v02r01 KDB 789033 D02 v02r01
Test Results:	PASS

Tested by:

Shanshan. Zhang / Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

Table Of Content

(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2409110896-4E	2025-03-10	Original	Valid

2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	Spurious Radiated Emissions	15.209(a), 15.407 (b)(1) 15.407 (b)(4) 15.407 (b)(8)	PASS
2	Conducted Emission	15.207	PASS
3	26 dB and 99% Emission Bandwidth	15.407 (a)(12) 15.1049	PASS
4	Minimum 6 dB bandwidth	15.407(e)	PASS
5	Maximum Conducted Output Power	15.407 (a)(1) 15.407 (a)(3)	PASS
6	Band Edge	2.1051, 15.407(b)(1) 15.407(b)(4)	PASS
7	Power Spectral Density	15.407 (a)(1) 15.407 (a)(3)	PASS
8	Spurious Emissions at Antenna Terminals	2.1051, 15.407(b)	PASS
9	Antenna Requirement	15.203	PASS

3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission(150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59℃

4. Product Information And Test Setup

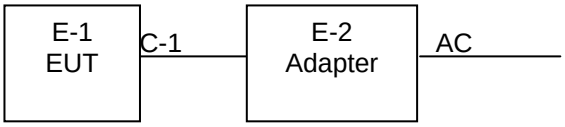
4.1 Product Information

Model/Type Reference:	Radxa X4 D8E64R30W16, Radxa X4 D4E32R30W16, Radxa X4 D16E256R30W16 Radxa X4 D4E0R30W16, Radxa X4 D8E0R30W16, Radxa X4 D12E128R30W16, Radxa X4 D12E0R30W16, Radxa X4 D16E0R30W16
Model differences:	All the model are the same circuit and RF module, except model names, eMMC size and RAM size.
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN Mode Supported	802.11a/n/ac/ax(20MHz channel bandwidth) 802.11n/ac/ax(40MHz channel bandwidth) 802.11ac/ax(80MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11a/n/ac/ax(HT20); 5190-5230MHz for 802.11n/ac/ax(HT40); 5210MHz for 802.11 ac/ax80; 5745-5825 MHz for 802.11a/n/ac/ax(HT20); 5755-5795 MHz for 802.11n/ac/ax(HT40); 5775MHz for 802.11 ac/ax80;
Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac/ax(VHT20): NSS1, MCS0-MCS8 802.11ac/ax(VHT40/VHT80):NSS1, MCS0-MCS
Type of Modulation:	OFDM/OFDMA
Number Of Channel	4 channels for 802.11a/n20/ac20/ax20 in the 5180-5240MHz band ; 2 channels for 802.11 n40/ac40/ax40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80/ax80 in the 5210MHz band ; 5 channels for 802.11a/n20/ac20/ax20 in the 5745-5825MHz band ; 2 channels for 802.11 n40/ac40/ax40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80/ax80 in the 5775MHz band
Antenna installation:	FPC antenna*2
Antenna Gain:	5.1G WIFI: Antenna A: 1.4dBi; Antenna B: 1.4dBi 5.8G WIFI: Antenna A: 1.44dBi; Antenna B: 1.44dBi Remark: ☒ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☐ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Ratings:	DC 12V from adapter

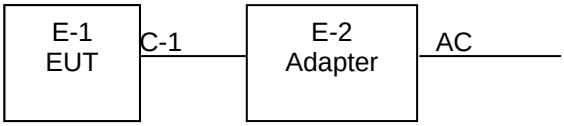
4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Radxa X4	radxa®	Radxa X4 D8E64R30W16, Radxa X4 D4E32R30W16, Radxa X4 D16E256R30W16	N/A	EUT
E-2	ADAPTER	Hoco.	N18	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0M	DC cable unshielded

Notes:

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.

4.4 Channel List

5.1G

802.11a/n/ac/ax(20MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220	-	-	-	-
40	5200	48	5240	-	-	-	-

802.11n /ac/ax(40MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	-	-	-	-	-	-
46	5230	-	-	-	-	-	-

802.11ac/ax (80MHz) Carrier Frequency Channel	
Channel	Frequency (MHz)
42	5210

5.8G

802.11a/n/ac/ax(20 MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

802.11n/ac/ax 40MHz Carrier Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	-	-

802.11ac/ax 80MHz Carrier Frequency Channel	
Channel	Frequency (MHz)
155	5775

4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11a / n/ ac 20/ ax 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20/ ax 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40/ ax 40 CH38/ CH 46 802.11n/ ac40/ ax 40 CH 151 / CH 159
Mode 3	802.11 ac80/ ax80 CH 42/CH 155
Mode 4	Link mode (Conducted emission & Radiated emission)

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
(2) We're testing antenna A data.
(3) This product does not support RU mode.

4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	CMD		
Parameters	DEF	DEF	DEF

4.7 Antenna

5.1G
1)For power spectral density(PSD) measurements,
Array Gain=10log(NANT/NSS)dB=10log(2/1)=3.01dB,
So the directional gain for PSD is 4.41 dBi
2)For power measurements,
The Array gain=0 dB for NANT≤4,
So the directional gain for Power measurements is 1.4 dBi

Antenna	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
A	N/A	N/A	FPC antenna	1.4	N/A
B	N/A	N/A	FPC antenna	1.4	N/A

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

5.8G
1)For power spectral density(PSD) measurements,
Array Gain=10log(NANT/NSS)dB=10log(2/1)=3.01dB,
So the directional gain for PSD is 4.45 dBi
2)For power measurements,
The Array gain=0 dB for NANT≤4,
So the directional gain for Power measurements is 1.44 dBi

Antenna	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
A	N/A	N/A	FPC antenna	1.44	N/A
B	N/A	N/A	FPC antenna	1.44	N/A

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.
FCC Test Firm Registration Number: 712850
A2LA certificate registration number is: CN1212
ISED Registered No.: 23583
ISED CAB identifier: CN0017

5.2 Test Instrument Used

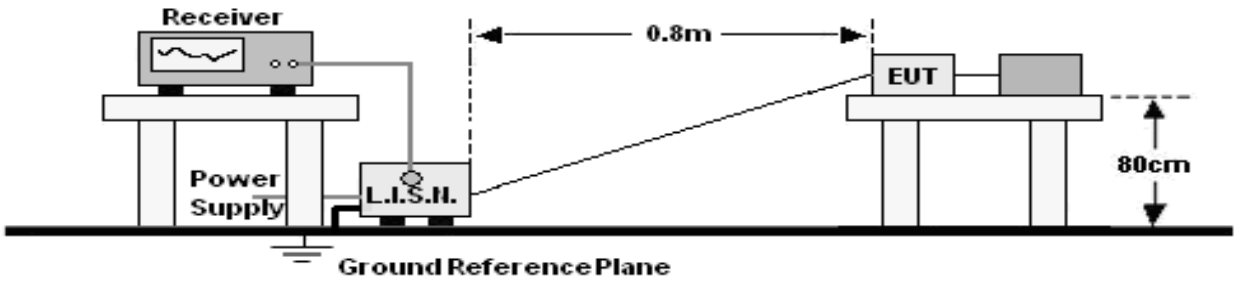
Conducted Emissions Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 16, 2024	May 15, 2025

RF Conducted Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Power meter	Keysight	E4419	\	May 16, 2024	May 15, 2025
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Radio frequency control box	MAIWEI	MW100-RFCB	\	\	\
Software	MAIWEI	MTS 8310	\	\	\

Radiated Emissions Test (966 Chamber01)					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
966 chamber	ChengYu	966 Room	966	May 16, 2024	May 15, 2025
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
Receiver	R&S	ESRP	101154	May 16, 2024	May 15, 2025
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 16, 2024	May 15, 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 21, 2024	May 20, 2025
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025
Amplifier	SKET	LAPA_01G18G-45dB	SK2021040901	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18GHz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 16, 2024	May 15, 2025
Horn Antenna(18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

Frequency (MHz)	Limit (dBuV)	
	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00
Notes: 1. *Decreasing linearly with logarithm of frequency. 2. The lower limit shall apply at the transition frequencies.		

6.3 Test Procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

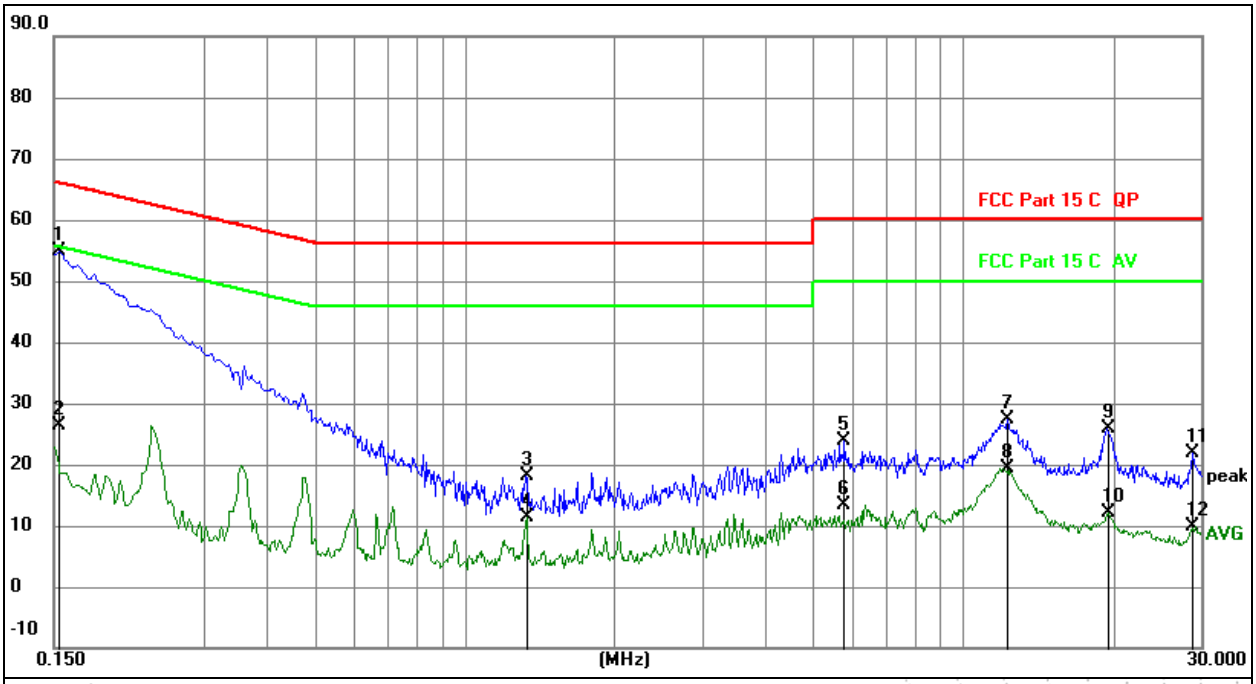
6.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

6.5 Test Result

Radxa X4 D8E64R30W16:

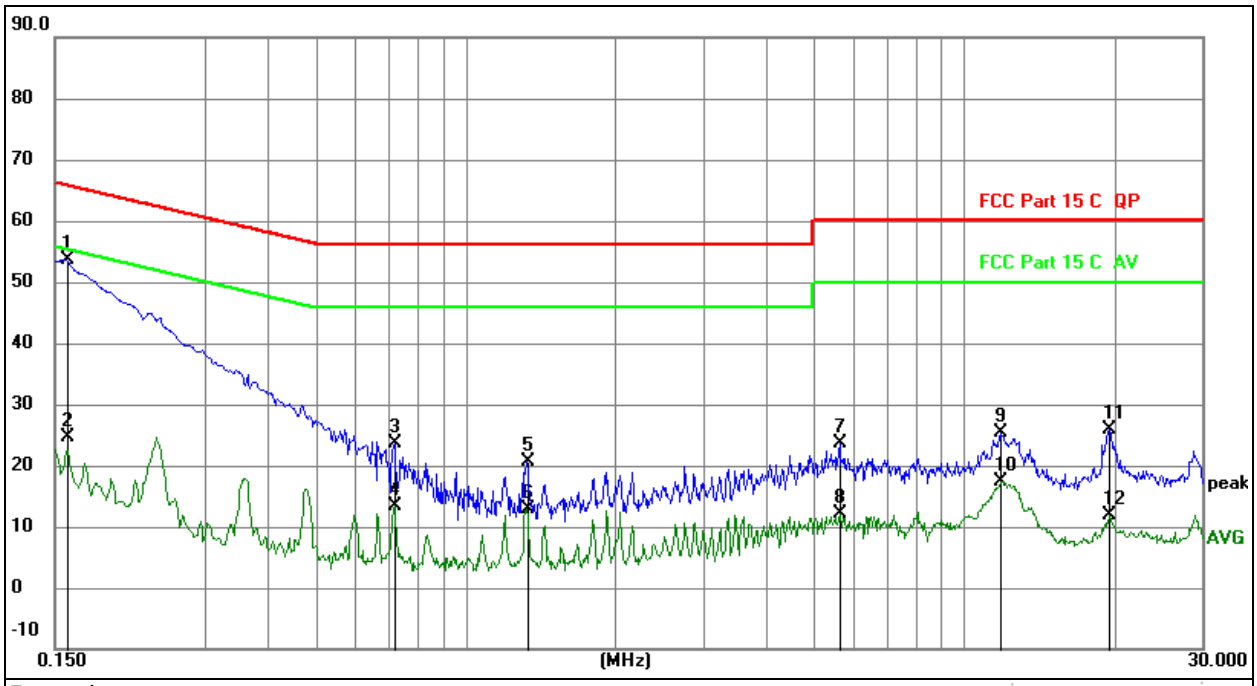
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over= Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1	*	0.1539	34.83	20.07	54.90	65.79	-10.89	QP
2		0.1539	6.19	20.07	26.26	55.79	-29.53	AVG
3		1.3238	-1.98	20.09	18.11	56.00	-37.89	QP
4		1.3238	-8.68	20.09	11.41	46.00	-34.59	AVG
5		5.7743	3.71	20.15	23.86	60.00	-36.14	QP
6		5.7743	-6.87	20.15	13.28	50.00	-36.72	AVG
7		12.2531	7.24	20.23	27.47	60.00	-32.53	QP
8		12.2531	-0.93	20.23	19.30	50.00	-30.70	AVG
9		19.4284	5.66	20.33	25.99	60.00	-34.01	QP
10		19.4284	-8.17	20.33	12.16	50.00	-37.84	AVG
11		28.9077	1.55	20.28	21.83	60.00	-38.17	QP
12		28.9077	-10.50	20.28	9.78	50.00	-40.22	AVG

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



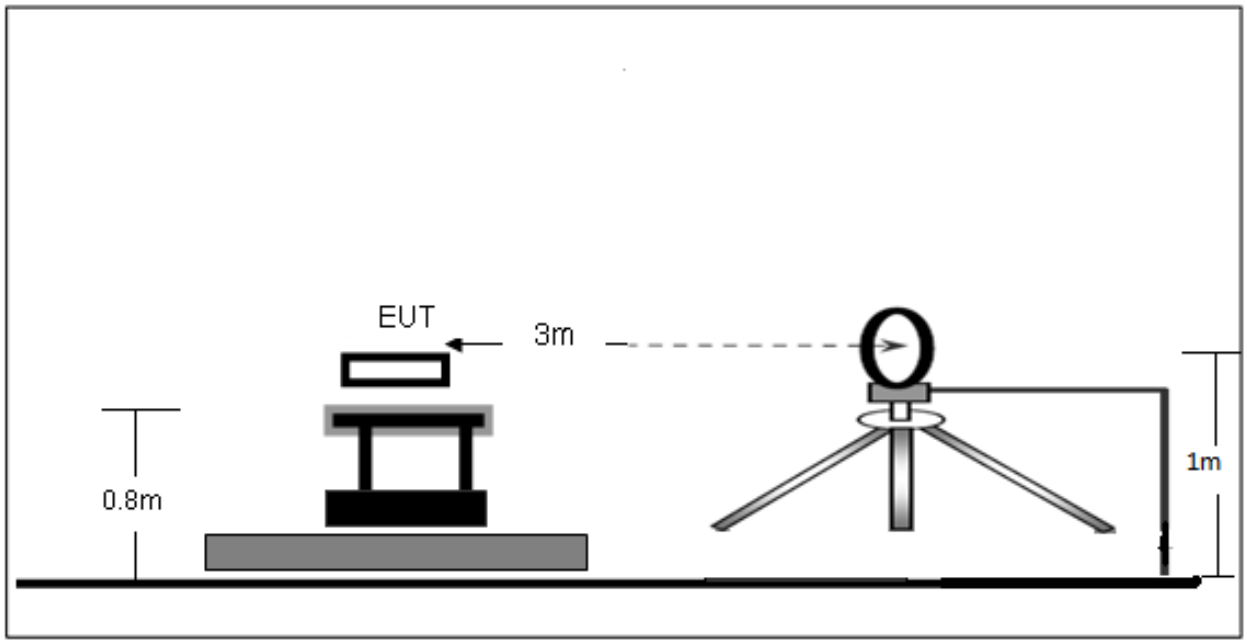
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1	*	0.1582	33.65	20.07	53.72	65.56	-11.84	QP
2		0.1582	4.45	20.07	24.52	55.56	-31.04	AVG
3		0.7198	3.46	20.09	23.55	56.00	-32.45	QP
4		0.7198	-6.60	20.09	13.49	46.00	-32.51	AVG
5		1.3238	0.55	20.09	20.64	56.00	-35.36	QP
6		1.3238	-7.24	20.09	12.85	46.00	-33.15	AVG
7		5.6234	3.49	20.15	23.64	60.00	-36.36	QP
8		5.6234	-7.93	20.15	12.22	50.00	-37.78	AVG
9		11.8697	5.07	20.22	25.29	60.00	-34.71	QP
10		11.8697	-2.80	20.22	17.42	50.00	-32.58	AVG
11		19.5316	5.43	20.33	25.76	60.00	-34.24	QP
12		19.5316	-8.53	20.33	11.80	50.00	-38.20	AVG

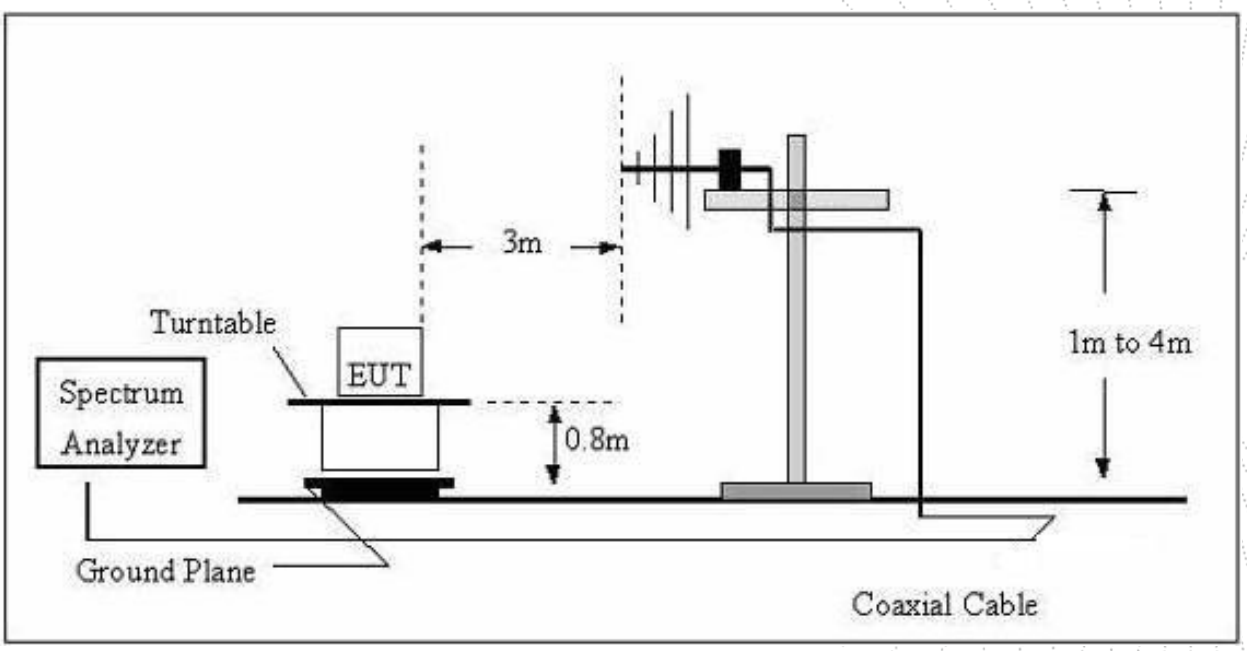
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

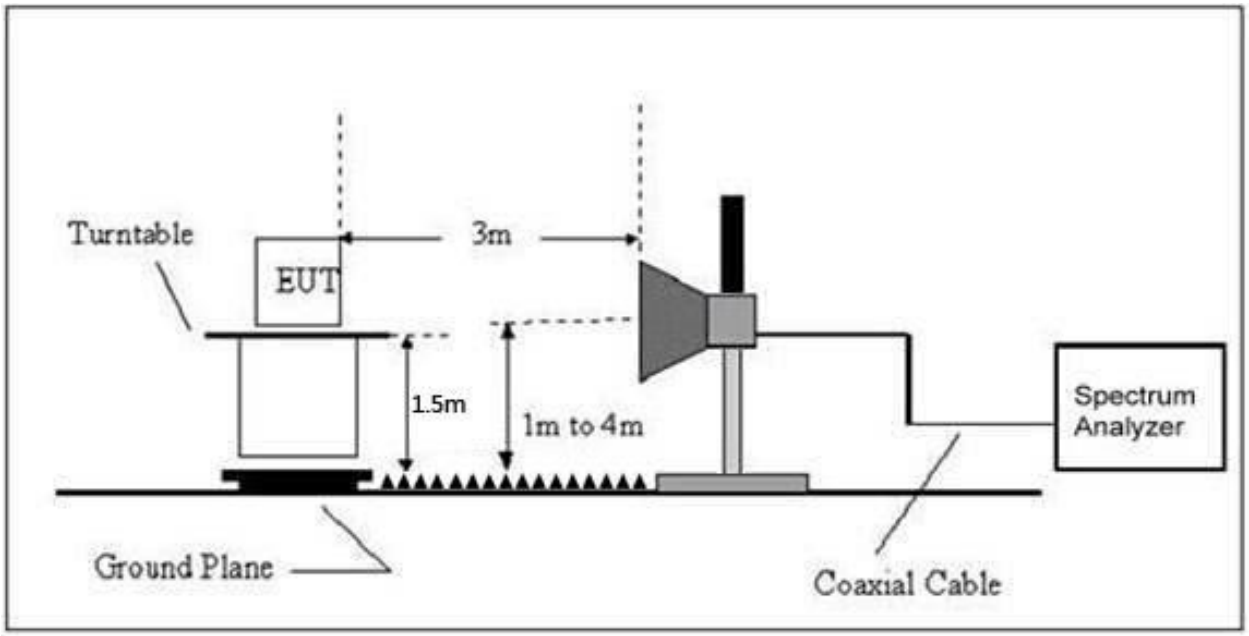
（A）Radiated Emission Test-Up Frequency Below 30MHz



（B）Radiated Emission Test-Up Frequency 30MHz~1GHz



（C）Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance	
(MHz)	uV/m	(m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))}$ + 80
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))}$ + 40
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)}$ + 40
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Limit (dBuV/m) (at 3M)	
	Peak	Average
Above 1000	74	54

Notes:
(1)The limit for radiated test was performed according to FCC PART 15C.
(2)The tighter limit applies at the band edges.
(3) Emission level (dBuV/m)=20log Emission level (uV/m).

7.3 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.
This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.
Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

7.5 Test Result

Below 30MHz

Temperature:	26℃	Relative Humidity:	24%
Pressure:	101KPa	Test Voltage :	AC 120V/60Hz
Test Mode:	Mode 4	Polarization :	--

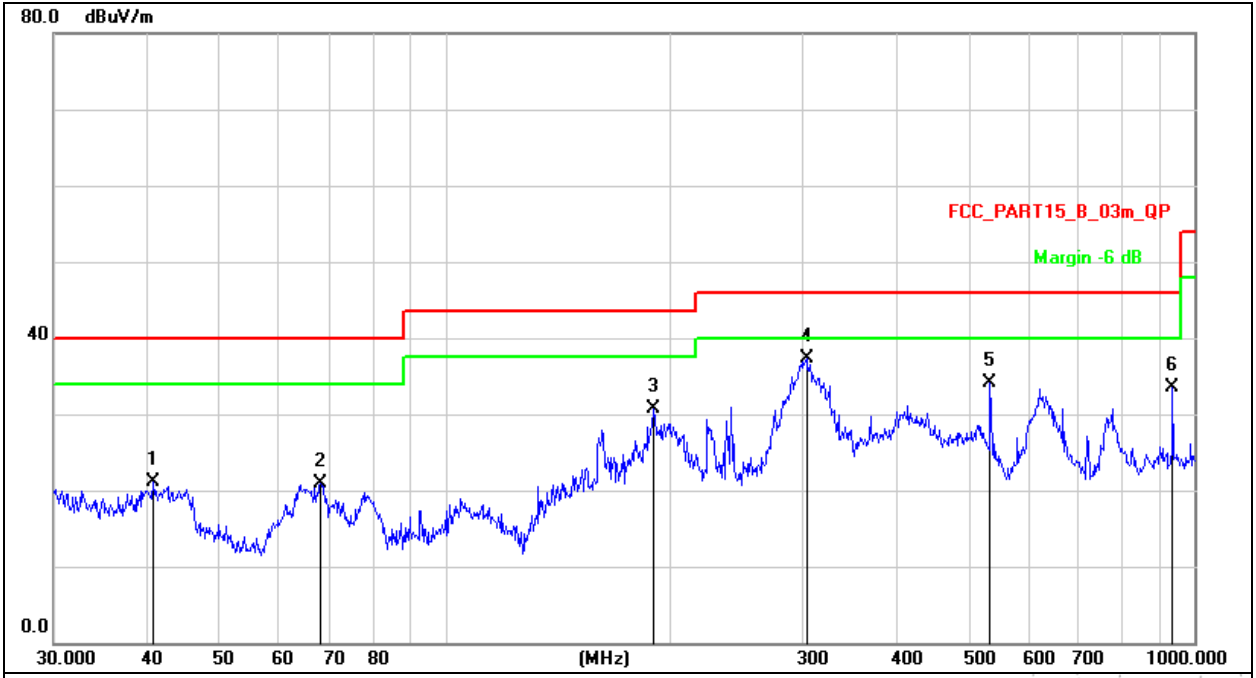
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
Distance extrapolation factor =40 log (specific distance/test distance) (dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

Radxa X4 D8E64R30W16:

Between 30MHz – 1GHz

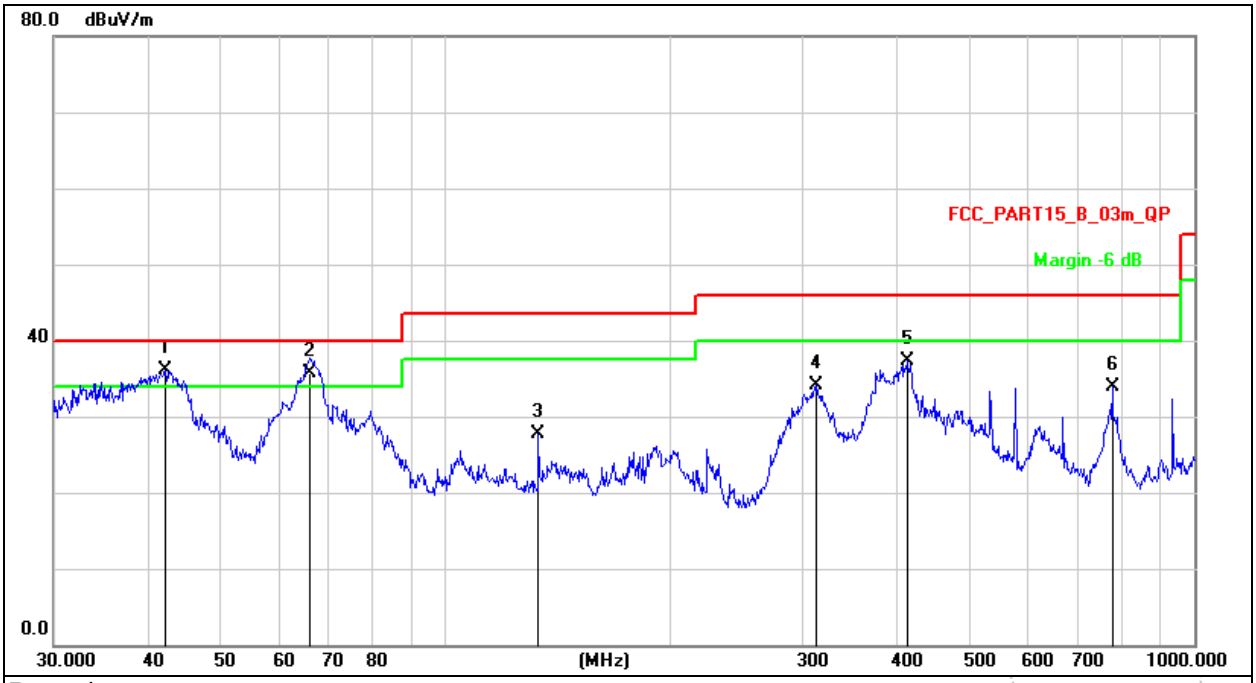
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



Remark:
1.Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement=Reading Level+ Correct Factor
3. Over= Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		40.7016	35.72	-14.66	21.06	40.00	-18.94	QP
2		68.1514	38.42	-17.49	20.93	40.00	-19.07	QP
3		189.7385	47.23	-16.48	30.75	43.50	-12.75	QP
4	*	303.5437	50.48	-13.12	37.36	46.00	-8.64	QP
5		533.8321	43.85	-9.81	34.04	46.00	-11.96	QP
6		935.5463	36.40	-2.99	33.41	46.00	-12.59	QP

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



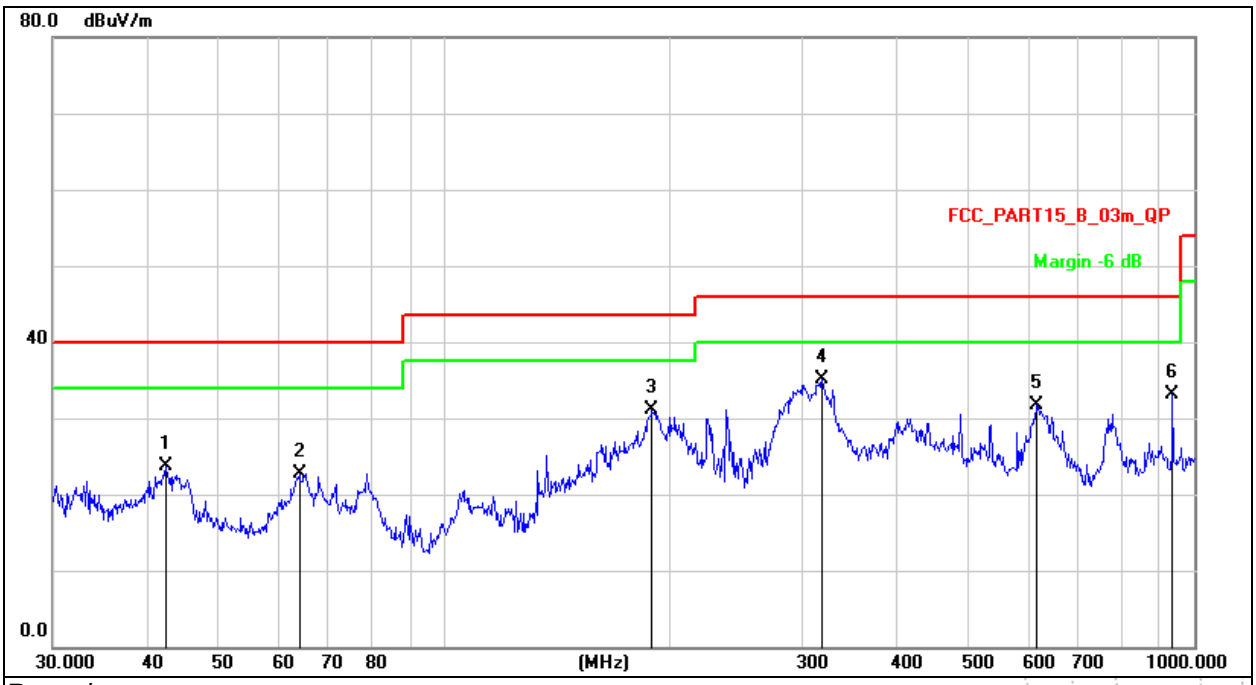
Remark:
1.Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement=Reading Level+ Correct Factor
3. Over= Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	42.3022	50.61	-14.53	36.08	40.00	-3.92	QP
2	!	65.8031	52.54	-16.85	35.69	40.00	-4.31	QP
3		133.1511	45.93	-18.25	27.68	43.50	-15.82	QP
4		313.2760	46.80	-12.77	34.03	46.00	-11.97	QP
5		413.2706	47.80	-10.58	37.22	46.00	-8.78	QP
6		776.8778	38.57	-4.67	33.90	46.00	-12.10	QP

Radxa X4 D4E32R30W16:

Between 30MHz – 1GHz

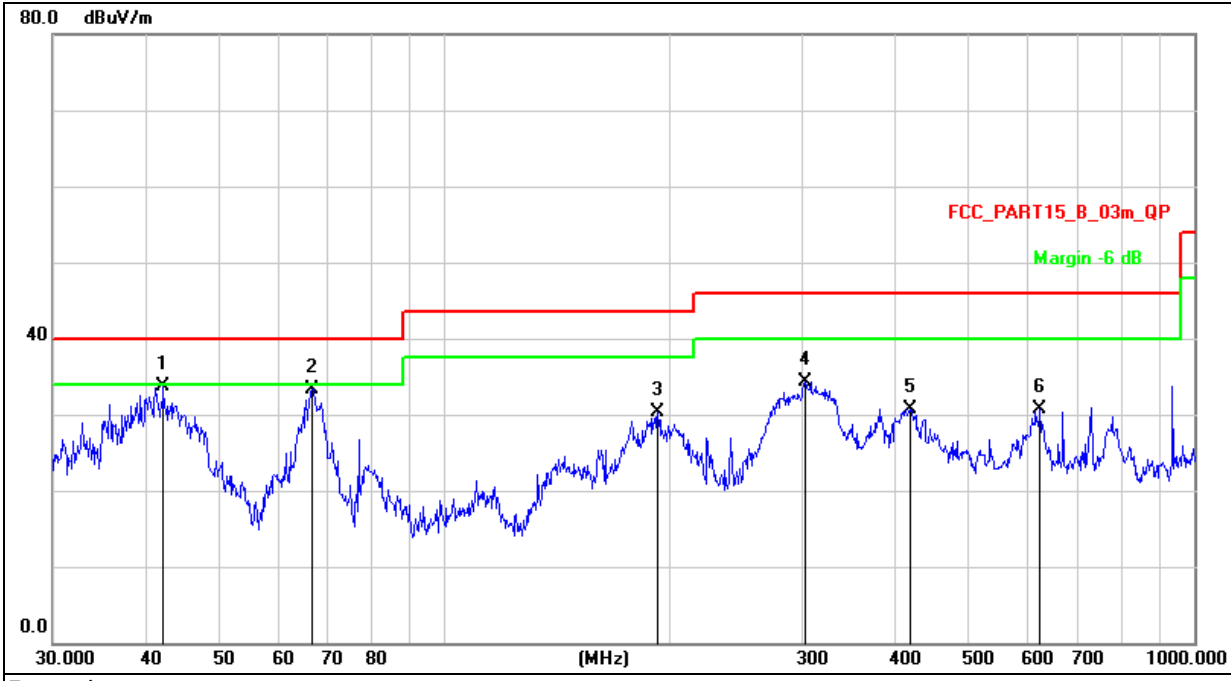
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		42.4508	38.13	-14.52	23.61	40.00	-16.39	QP
2		63.9827	39.11	-16.35	22.76	40.00	-17.24	QP
3		189.0741	47.55	-16.53	31.02	43.50	-12.48	QP
4	*	318.8170	47.60	-12.58	35.02	46.00	-10.98	QP
5		616.3718	38.45	-6.74	31.71	46.00	-14.29	QP
6		935.5461	36.02	-2.99	33.03	46.00	-12.97	QP

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



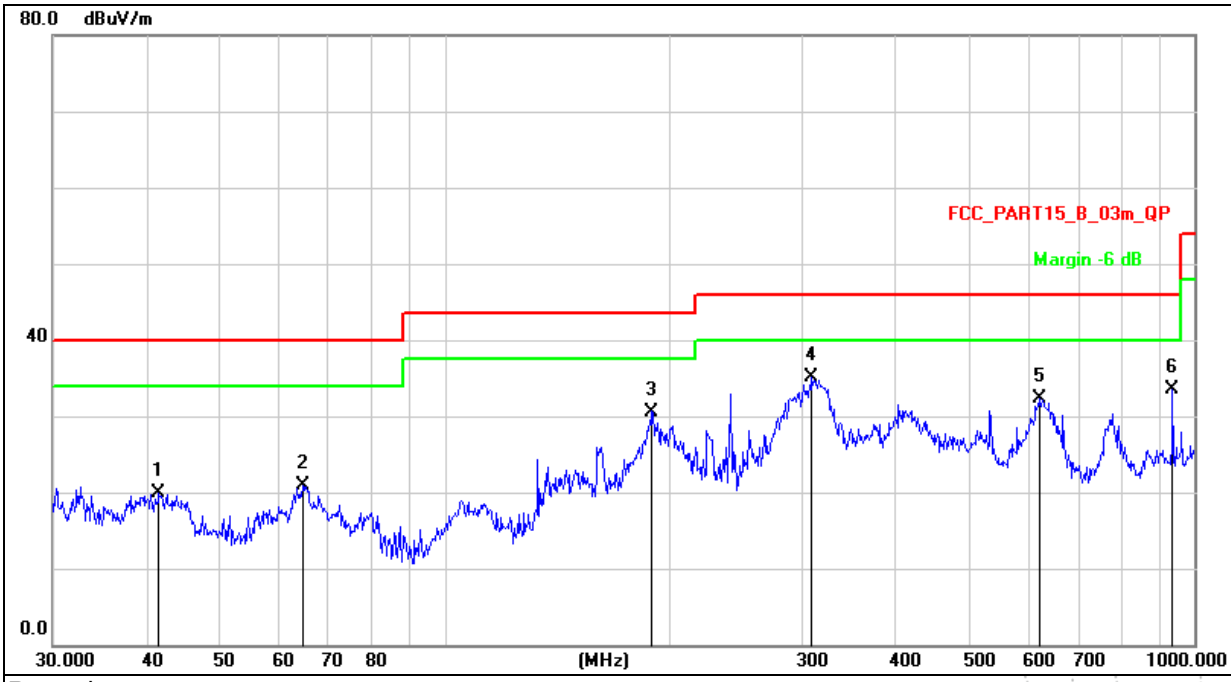
Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	42.1542	48.20	-14.54	33.66	40.00	-6.34	QP
2		66.4989	50.27	-17.04	33.23	40.00	-6.77	QP
3		192.4186	46.56	-16.28	30.28	43.50	-13.22	QP
4		302.4812	47.49	-13.15	34.34	46.00	-11.66	QP
5		417.6411	41.27	-10.49	30.78	46.00	-15.22	QP
6		622.8900	37.24	-6.63	30.61	46.00	-15.39	QP

Radxa X4 D16E256R30W16:

Between 30MHz – 1GHz

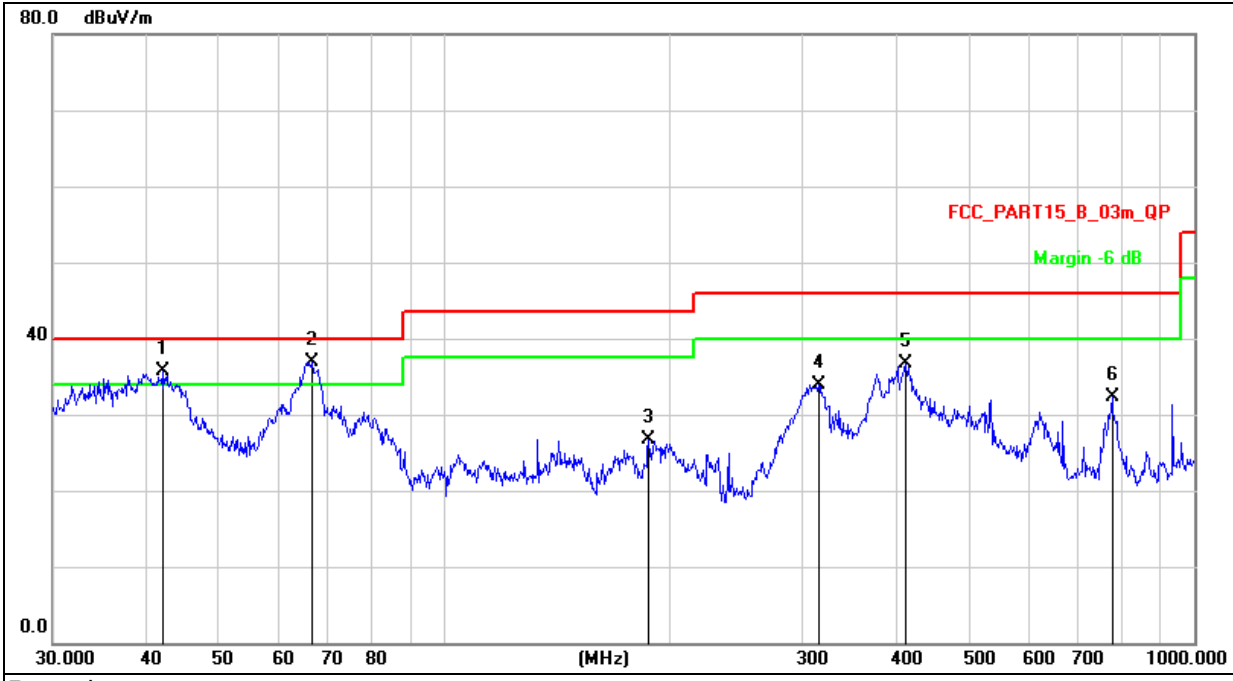
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		41.5670	34.51	-14.59	19.92	40.00	-20.08	QP
2		64.6594	37.39	-16.53	20.86	40.00	-19.14	QP
3		189.0743	47.13	-16.53	30.60	43.50	-12.90	QP
4	*	308.9126	47.94	-12.93	35.01	46.00	-10.99	QP
5		620.7096	38.99	-6.66	32.33	46.00	-13.67	QP
6		935.5463	36.58	-2.99	33.59	46.00	-12.41	QP

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



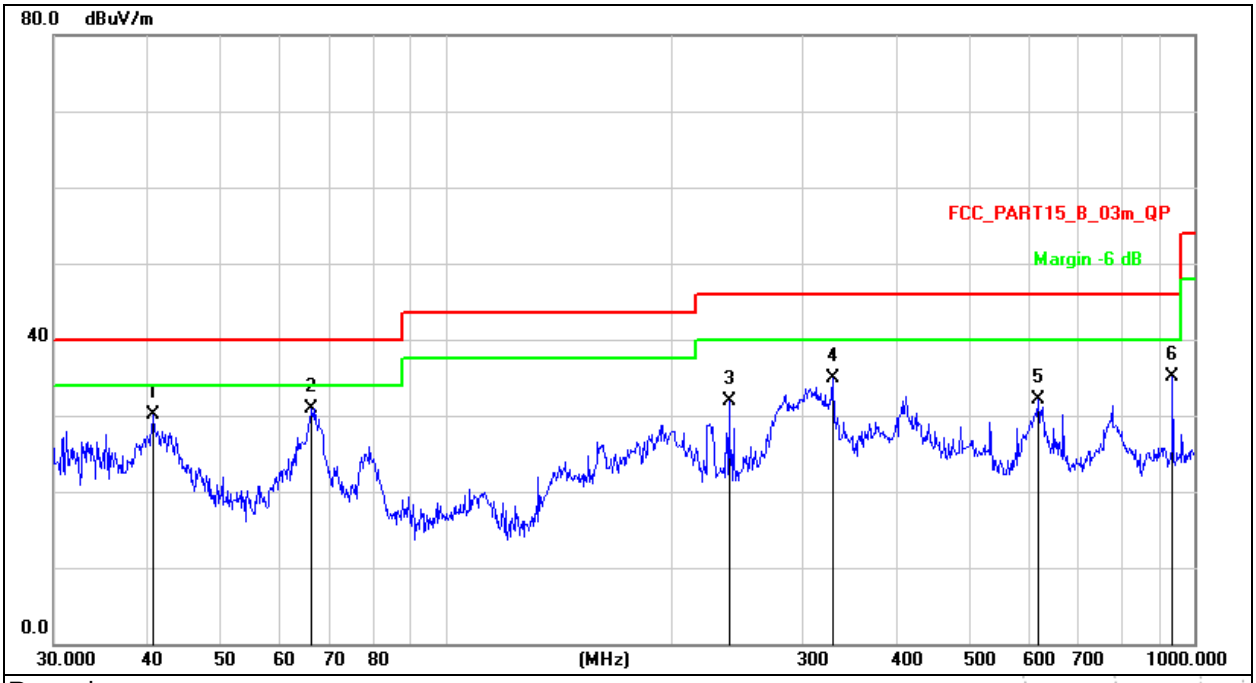
Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	!	42.1542	50.16	-14.54	35.62	40.00	-4.38	QP
2	*	66.4989	53.92	-17.04	36.88	40.00	-3.12	QP
3		187.0958	43.30	-16.68	26.62	43.50	-16.88	QP
4		315.4808	46.59	-12.70	33.89	46.00	-12.11	QP
5		411.8240	47.34	-10.61	36.73	46.00	-9.27	QP
6		776.8778	36.92	-4.67	32.25	46.00	-13.75	QP

Radxa X4 D8E0R30W16:

Between 30MHz – 1GHz

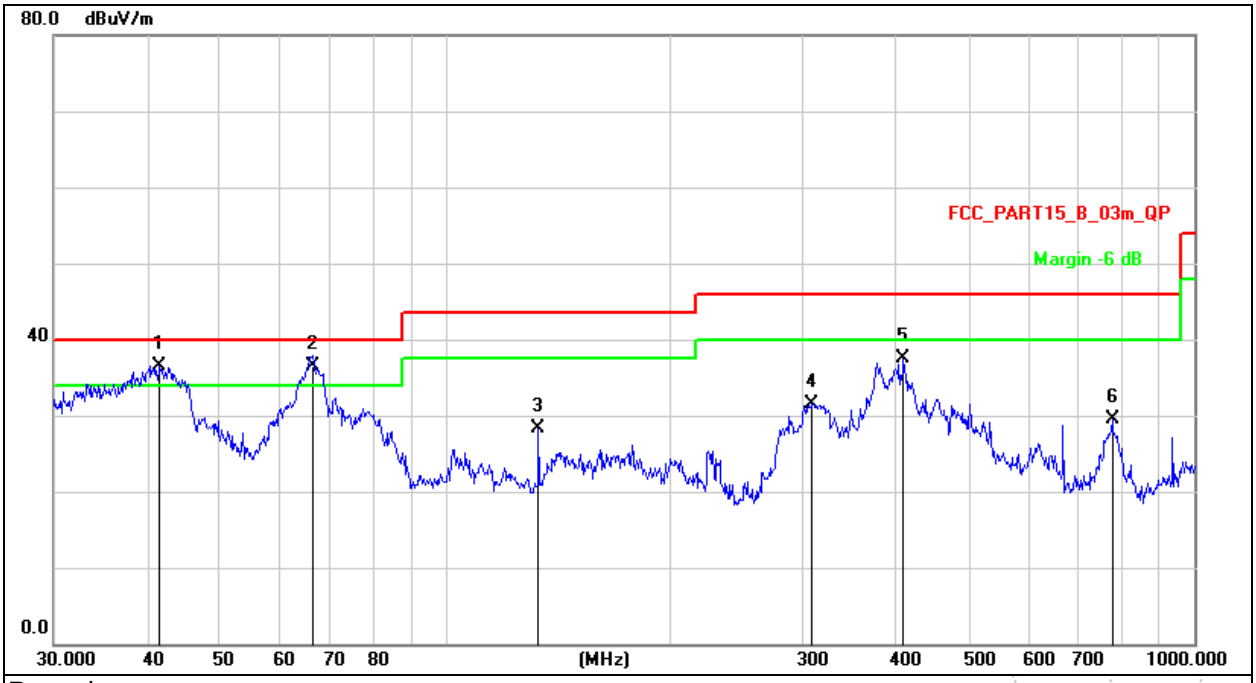
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		40.7016	44.85	-14.66	30.19	40.00	-9.81	QP
2	*	66.2662	47.83	-16.97	30.86	40.00	-9.14	QP
3		239.1473	46.59	-14.60	31.99	46.00	-14.01	QP
4		329.0390	47.09	-12.22	34.87	46.00	-11.13	QP
5		618.5369	38.81	-6.70	32.11	46.00	-13.89	QP
6		935.5463	38.12	-2.99	35.13	46.00	-10.87	QP

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	41.5670	51.17	-14.59	36.58	40.00	-3.42	QP
2	!	66.4989	53.56	-17.04	36.52	40.00	-3.48	QP
3		133.1511	46.59	-18.25	28.34	43.50	-15.16	QP
4		308.9126	44.47	-12.93	31.54	46.00	-14.46	QP
5		408.9460	48.09	-10.66	37.43	46.00	-8.57	QP
6		776.8778	34.15	-4.67	29.48	46.00	-16.52	QP

Between 1GHz – 40GHz

☒Undesirable radiated Undesirable radiated Spurious Emission in Band Edge
All the modes has been tested and the worst result 802.11a recorded as below:

Test mode: 802.11a Frequency(MHz): 5180

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5149.84	H	61.42	74	42.28	54
5149.53	V	58.37	74	43.61	54

Test mode: 802.11a Frequency(MHz): 5240

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5300.21	H	47.74	74	36.98	54
5300.17	V	44.03	74	31.02	54

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
(2) Emission Level= Reading Level+Correct Factor.
(3) Correct Factor= Ant_F + Cab_L - Preamp

Test Mode:	TX(5.1G) - 802.11a

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.03	71.05	-20.73	50.31	68.20	-17.89	PK
Vertical	4434.03	59.92	-20.73	39.19	54.00	-14.81	AV
Vertical	10360.14	62.46	-9.36	53.10	68.20	-15.10	PK
Vertical	10360.14	49.35	-9.36	39.99	54.00	-14.01	AV
Vertical	15540.02	62.19	-7.84	54.35	74.00	-19.65	PK
Vertical	15540.02	49.46	-7.84	41.62	54.00	-12.38	AV
Horizontal	4434.09	72.36	-20.73	51.63	68.20	-16.57	PK
Horizontal	4434.09	59.84	-20.73	39.11	54.00	-14.89	AV
Horizontal	10360.00	60.38	-9.36	51.02	68.20	-17.18	PK
Horizontal	10360.00	49.79	-9.36	40.43	54.00	-13.57	AV
Horizontal	15540.02	60.84	-7.84	53.00	74.00	-21.00	PK
Horizontal	15540.02	49.49	-7.84	41.65	54.00	-12.35	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.20	73.98	-20.42	53.57	74.00	-20.43	PK
Vertical	4592.20	59.05	-20.42	38.63	54.00	-15.37	AV
Vertical	10400.12	60.99	-9.30	51.69	68.20	-16.51	PK
Vertical	10400.12	49.62	-9.30	40.32	54.00	-13.68	AV
Vertical	15600.05	64.52	-7.82	56.70	74.00	-17.30	PK
Vertical	15600.05	49.47	-7.82	41.65	54.00	-12.35	AV
Horizontal	4592.13	72.73	-20.42	52.32	74.00	-21.68	PK
Horizontal	4592.13	59.48	-20.42	39.06	54.00	-14.94	AV
Horizontal	10400.13	64.10	-9.30	54.80	68.20	-13.40	PK
Horizontal	10400.13	49.57	-9.30	40.27	54.00	-13.73	AV
Horizontal	15600.10	60.26	-7.82	52.44	74.00	-21.56	PK
Horizontal	15600.10	49.46	-7.82	41.64	54.00	-12.36	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.08	71.86	-20.12	51.73	74.00	-22.27	PK
Vertical	4739.08	59.38	-20.12	39.25	54.00	-14.75	AV
Vertical	10480.03	62.69	-9.18	53.51	68.20	-14.69	PK
Vertical	10480.03	49.05	-9.18	39.87	54.00	-14.13	AV
Vertical	15720.18	64.79	-7.78	57.01	74.00	-16.99	PK
Vertical	15720.18	49.50	-7.78	41.72	54.00	-12.28	AV
Horizontal	4739.15	72.36	-20.12	52.24	74.00	-21.76	PK
Horizontal	4739.15	59.69	-20.12	39.57	54.00	-14.43	AV
Horizontal	10480.10	60.84	-9.18	51.66	68.20	-16.54	PK
Horizontal	10480.10	49.13	-9.18	39.95	54.00	-14.05	AV
Horizontal	15720.16	62.82	-7.78	55.04	74.00	-18.96	PK
Horizontal	15720.16	49.62	-7.78	41.84	54.00	-12.16	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
The worst case is Antenna A

Test Mode:	TX(5.1G) - 802.11n-HT20

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.04	74.92	-20.73	54.19	68.20	-14.01	PK
Vertical	4434.04	59.47	-20.73	38.73	54.00	-15.27	AV
Vertical	10360.09	60.23	-9.36	50.87	68.20	-17.33	PK
Vertical	10360.09	49.15	-9.36	39.79	54.00	-14.21	AV
Vertical	15540.20	64.24	-7.84	56.40	74.00	-17.60	PK
Vertical	15540.20	49.35	-7.84	41.51	54.00	-12.49	AV
Horizontal	4434.18	71.07	-20.73	50.34	68.20	-17.86	PK
Horizontal	4434.18	59.35	-20.73	38.62	54.00	-15.38	AV
Horizontal	10360.17	63.19	-9.36	53.83	68.20	-14.37	PK
Horizontal	10360.17	49.42	-9.36	40.06	54.00	-13.94	AV
Horizontal	15540.04	63.80	-7.84	55.96	74.00	-18.04	PK
Horizontal	15540.04	49.53	-7.84	41.69	54.00	-12.31	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.14	70.49	-20.42	50.08	74.00	-23.92	PK
Vertical	4592.14	59.31	-20.42	38.90	54.00	-15.10	AV
Vertical	10400.08	61.66	-9.30	52.36	68.20	-15.84	PK
Vertical	10400.08	49.27	-9.30	39.97	54.00	-14.03	AV
Vertical	15600.01	62.82	-7.82	55.00	74.00	-19.00	PK
Vertical	15600.01	49.91	-7.82	42.09	54.00	-11.91	AV
Horizontal	4592.07	70.85	-20.42	50.44	74.00	-23.56	PK
Horizontal	4592.07	59.20	-20.42	38.78	54.00	-15.22	AV
Horizontal	10400.10	61.74	-9.30	52.44	68.20	-15.76	PK
Horizontal	10400.10	49.16	-9.30	39.86	54.00	-14.14	AV
Horizontal	15600.15	60.82	-7.82	53.00	74.00	-21.00	PK
Horizontal	15600.15	49.21	-7.82	41.39	54.00	-12.61	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.07	73.50	-20.12	53.38	74.00	-20.62	PK
Vertical	4739.07	59.42	-20.12	39.30	54.00	-14.70	AV
Vertical	10480.09	63.50	-9.18	54.32	68.20	-13.88	PK
Vertical	10480.09	49.86	-9.18	40.68	54.00	-13.32	AV
Vertical	15720.06	64.20	-7.78	56.42	74.00	-17.58	PK
Vertical	15720.06	49.63	-7.78	41.85	54.00	-12.15	AV
Horizontal	4739.20	71.32	-20.12	51.20	74.00	-22.80	PK
Horizontal	4739.20	59.96	-20.12	39.83	54.00	-14.17	AV
Horizontal	10480.13	61.00	-9.18	51.82	68.20	-16.38	PK
Horizontal	10480.13	49.22	-9.18	40.04	54.00	-13.96	AV
Horizontal	15720.07	61.95	-7.78	54.17	74.00	-19.83	PK
Horizontal	15720.07	49.04	-7.78	41.26	54.00	-12.74	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
Test Mode is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11n-HT40

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.13	71.25	-20.73	50.52	68.20	-17.68	PK
Vertical	4434.13	59.70	-20.73	38.96	54.00	-15.04	AV
Vertical	10380.05	64.46	-9.33	55.13	68.20	-13.07	PK
Vertical	10380.05	49.99	-9.33	40.66	54.00	-13.34	AV
Vertical	15570.10	63.79	-7.83	55.96	74.00	-18.04	PK
Vertical	15570.10	49.85	-7.83	42.02	54.00	-11.98	AV
Horizontal	4434.12	73.21	-20.73	52.48	74.00	-21.52	PK
Horizontal	4434.12	59.93	-20.73	39.19	54.00	-14.81	AV
Horizontal	10380.02	62.12	-9.33	52.79	68.20	-15.41	PK
Horizontal	10380.02	49.19	-9.33	39.86	54.00	-14.14	AV
Horizontal	15570.01	60.85	-7.83	53.02	74.00	-20.98	PK
Horizontal	15570.01	49.53	-7.83	41.70	54.00	-12.30	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.05	70.44	-20.12	50.31	68.20	-17.89	PK
Vertical	4739.05	59.43	-20.12	39.30	54.00	-14.70	AV
Vertical	10460.05	61.43	-9.21	52.22	68.20	-15.98	PK
Vertical	10460.05	49.25	-9.21	40.04	54.00	-13.96	AV
Vertical	15690.13	62.39	-7.79	54.60	74.00	-19.40	PK
Vertical	15690.13	49.92	-7.79	42.13	54.00	-11.87	AV
Horizontal	4739.08	70.83	-20.12	50.71	68.20	-17.49	PK
Horizontal	4739.08	59.28	-20.12	39.16	54.00	-14.84	AV
Horizontal	10460.13	63.78	-9.21	54.57	68.20	-13.63	PK
Horizontal	10460.13	49.79	-9.21	40.58	54.00	-13.42	AV
Horizontal	15690.11	64.27	-7.79	56.48	74.00	-17.52	PK
Horizontal	15690.11	49.38	-7.79	41.59	54.00	-12.41	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
Test Mode is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ac-HT20

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.16	74.10	-20.73	53.37	68.20	-14.83	PK
Vertical	4434.16	59.11	-20.73	38.38	54.00	-15.62	AV
Vertical	10360.01	60.69	-9.36	51.33	68.20	-16.87	PK
Vertical	10360.01	49.21	-9.36	39.85	54.00	-14.15	AV
Vertical	15540.18	62.53	-7.84	54.69	74.00	-19.31	PK
Vertical	15540.18	49.14	-7.84	41.30	54.00	-12.70	AV
Horizontal	4434.08	71.29	-20.73	50.56	68.20	-17.64	PK
Horizontal	4434.08	59.17	-20.73	38.43	54.00	-15.57	AV
Horizontal	10360.05	60.57	-9.36	51.21	68.20	-16.99	PK
Horizontal	10360.05	49.72	-9.36	40.36	54.00	-13.64	AV
Horizontal	15540.11	61.90	-7.84	54.06	74.00	-19.94	PK
Horizontal	15540.11	49.73	-7.84	41.89	54.00	-12.11	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.03	71.23	-20.42	50.82	74.00	-23.18	PK
Vertical	4592.03	59.54	-20.42	39.12	54.00	-14.88	AV
Vertical	10400.06	64.28	-9.30	54.98	68.20	-13.22	PK
Vertical	10400.06	49.05	-9.30	39.75	54.00	-14.25	AV
Vertical	15600.07	62.79	-7.82	54.97	74.00	-19.03	PK
Vertical	15600.07	49.02	-7.82	41.20	54.00	-12.80	AV
Horizontal	4592.10	74.10	-20.42	53.69	74.00	-20.31	PK
Horizontal	4592.10	59.60	-20.42	39.18	54.00	-14.82	AV
Horizontal	10400.04	61.71	-9.30	52.41	68.20	-15.79	PK
Horizontal	10400.04	49.30	-9.30	40.00	54.00	-14.00	AV
Horizontal	15600.03	64.83	-7.82	57.01	74.00	-16.99	PK
Horizontal	15600.03	49.87	-7.82	42.05	54.00	-11.95	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.01	73.59	-20.12	53.47	74.00	-20.53	PK
Vertical	4739.01	59.81	-20.12	39.69	54.00	-14.31	AV
Vertical	10480.04	64.55	-9.18	55.37	68.20	-12.83	PK
Vertical	10480.04	49.44	-9.18	40.26	54.00	-13.74	AV
Vertical	15720.11	63.64	-7.78	55.86	74.00	-18.14	PK
Vertical	15720.11	49.21	-7.78	41.43	54.00	-12.57	AV
Horizontal	4739.01	70.97	-20.12	50.84	74.00	-23.16	PK
Horizontal	4739.01	59.11	-20.12	38.99	54.00	-15.01	AV
Horizontal	10480.14	64.72	-9.18	55.54	68.20	-12.66	PK
Horizontal	10480.14	49.05	-9.18	39.87	54.00	-14.13	AV
Horizontal	15720.12	60.18	-7.78	52.40	74.00	-21.60	PK
Horizontal	15720.12	49.63	-7.78	41.85	54.00	-12.15	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
Test Mode is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ac-HT40

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.16	71.25	-20.73	50.52	68.20	-17.68	PK
Vertical	4434.16	59.22	-20.73	38.48	54.00	-15.52	AV
Vertical	10380.09	60.50	-9.33	51.17	68.20	-17.03	PK
Vertical	10380.09	49.41	-9.33	40.08	54.00	-13.92	AV
Vertical	15570.10	61.29	-7.83	53.46	74.00	-20.54	PK
Vertical	15570.10	49.09	-7.83	41.26	54.00	-12.74	AV
Horizontal	4434.11	70.16	-20.73	49.43	74.00	-24.57	PK
Horizontal	4434.11	59.86	-20.73	39.13	54.00	-14.87	AV
Horizontal	10380.12	62.70	-9.33	53.37	68.20	-14.83	PK
Horizontal	10380.12	49.51	-9.33	40.18	54.00	-13.82	AV
Horizontal	15570.02	62.73	-7.83	54.90	74.00	-19.10	PK
Horizontal	15570.02	49.69	-7.83	41.86	54.00	-12.14	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.12	73.27	-20.12	53.15	68.20	-15.05	PK
Vertical	4739.12	59.64	-20.12	39.52	54.00	-14.48	AV
Vertical	10460.00	63.93	-9.21	54.72	68.20	-13.48	PK
Vertical	10460.00	49.62	-9.21	40.41	54.00	-13.59	AV
Vertical	15690.12	64.12	-7.79	56.33	74.00	-17.67	PK
Vertical	15690.12	49.67	-7.79	41.88	54.00	-12.12	AV
Horizontal	4739.05	70.45	-20.12	50.33	68.20	-17.87	PK
Horizontal	4739.05	59.85	-20.12	39.72	54.00	-14.28	AV
Horizontal	10460.16	63.94	-9.21	54.73	68.20	-13.47	PK
Horizontal	10460.16	49.04	-9.21	39.83	54.00	-14.17	AV
Horizontal	15690.07	62.36	-7.79	54.57	74.00	-19.43	PK
Horizontal	15690.07	49.40	-7.79	41.61	54.00	-12.39	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
Test Mode is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ac 80

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5210 MHz)-Above 1G							
Vertical	4434.19	73.29	-20.73	52.56	68.20	-15.64	PK
Vertical	4434.19	59.45	-20.73	38.72	54.00	-15.28	AV
Vertical	10420.14	61.34	-9.27	52.07	68.20	-16.13	PK
Vertical	10420.14	49.37	-9.27	40.10	54.00	-13.90	AV
Vertical	15630.09	60.47	-7.81	52.66	74.00	-21.34	PK
Vertical	15630.09	49.17	-7.81	41.36	54.00	-12.64	AV
Horizontal	4434.12	71.69	-20.73	50.96	68.20	-17.24	PK
Horizontal	4434.12	49.94	-20.73	29.21	54.00	-24.79	AV
Horizontal	10420.15	40.12	9.27	49.39	68.20	-18.81	PK
Horizontal	10420.15	29.48	9.27	38.75	54.00	-15.25	AV
Horizontal	15630.01	61.43	-7.81	53.62	74.00	-20.38	PK
Horizontal	15630.01	49.95	-7.81	42.14	54.00	-11.86	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
Test Mode is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ax-HT20

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.10	74.98	-20.73	54.25	68.20	-13.95	PK
Vertical	4434.10	59.69	-20.73	38.96	54.00	-15.04	AV
Vertical	10360.17	60.82	-9.36	51.46	68.20	-16.74	PK
Vertical	10360.17	49.50	-9.36	40.14	54.00	-13.86	AV
Vertical	15540.03	63.32	-7.84	55.48	74.00	-18.52	PK
Vertical	15540.03	49.37	-7.84	41.53	54.00	-12.47	AV
Horizontal	4434.08	72.09	-20.73	51.36	68.20	-16.84	PK
Horizontal	4434.08	59.07	-20.73	38.34	54.00	-15.66	AV
Horizontal	10360.11	63.27	-9.36	53.91	68.20	-14.29	PK
Horizontal	10360.11	49.77	-9.36	40.41	54.00	-13.59	AV
Horizontal	15540.20	64.22	-7.84	56.38	74.00	-17.62	PK
Horizontal	15540.20	49.57	-7.84	41.73	54.00	-12.27	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.10	72.88	-20.42	52.47	74.00	-21.53	PK
Vertical	4592.10	59.49	-20.42	39.07	54.00	-14.93	AV
Vertical	10400.18	62.92	-9.30	53.62	68.20	-14.58	PK
Vertical	10400.18	49.46	-9.30	40.16	54.00	-13.84	AV
Vertical	15600.11	63.41	-7.82	55.59	74.00	-18.41	PK
Vertical	15600.11	49.25	-7.82	41.43	54.00	-12.57	AV
Horizontal	4592.17	71.95	-20.42	51.53	74.00	-22.47	PK
Horizontal	4592.17	59.23	-20.42	38.81	54.00	-15.19	AV
Horizontal	10400.19	63.02	-9.30	53.72	68.20	-14.48	PK
Horizontal	10400.19	49.59	-9.30	40.29	54.00	-13.71	AV
Horizontal	15600.03	60.86	-7.82	53.04	74.00	-20.96	PK
Horizontal	15600.03	49.54	-7.82	41.72	54.00	-12.28	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.16	70.73	-20.12	50.61	74.00	-23.39	PK
Vertical	4739.16	59.99	-20.12	39.87	54.00	-14.13	AV
Vertical	10480.11	60.58	-9.18	51.40	68.20	-16.80	PK
Vertical	10480.11	49.75	-9.18	40.57	54.00	-13.43	AV
Vertical	15720.00	63.26	-7.78	55.48	74.00	-18.52	PK
Vertical	15720.00	49.37	-7.78	41.59	54.00	-12.41	AV
Horizontal	4739.05	74.14	-20.12	54.01	74.00	-19.99	PK
Horizontal	4739.05	59.24	-20.12	39.11	54.00	-14.89	AV
Horizontal	10480.06	61.30	-9.18	52.12	68.20	-16.08	PK
Horizontal	10480.06	49.21	-9.18	40.03	54.00	-13.97	AV
Horizontal	15720.13	64.55	-7.78	56.77	74.00	-17.23	PK
Horizontal	15720.13	49.05	-7.78	41.27	54.00	-12.73	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
Test Mode is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ax-HT40

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.12	74.93	-20.73	54.20	68.20	-14.00	PK
Vertical	4434.12	59.75	-20.73	39.01	54.00	-14.99	AV
Vertical	10380.07	61.66	-9.33	52.33	68.20	-15.87	PK
Vertical	10380.07	49.74	-9.33	40.41	54.00	-13.59	AV
Vertical	15570.14	61.34	-7.83	53.51	74.00	-20.49	PK
Vertical	15570.14	49.73	-7.83	41.90	54.00	-12.10	AV
Horizontal	4434.04	74.68	-20.73	53.95	74.00	-20.05	PK
Horizontal	4434.04	59.53	-20.73	38.80	54.00	-15.20	AV
Horizontal	10380.11	60.39	-9.33	51.06	68.20	-17.14	PK
Horizontal	10380.11	49.63	-9.33	40.30	54.00	-13.70	AV
Horizontal	15570.08	60.38	-7.83	52.55	74.00	-21.45	PK
Horizontal	15570.08	49.94	-7.83	42.11	54.00	-11.89	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.09	71.58	-20.12	51.45	68.20	-16.75	PK
Vertical	4739.09	59.72	-20.12	39.59	54.00	-14.41	AV
Vertical	10460.16	63.07	-9.21	53.86	68.20	-14.34	PK
Vertical	10460.16	49.94	-9.21	40.73	54.00	-13.27	AV
Vertical	15690.05	62.21	-7.79	54.42	74.00	-19.58	PK
Vertical	15690.05	49.28	-7.79	41.49	54.00	-12.51	AV
Horizontal	4739.14	74.82	-20.12	54.69	68.20	-13.51	PK
Horizontal	4739.14	59.73	-20.12	39.61	54.00	-14.39	AV
Horizontal	10460.14	63.68	-9.21	54.47	68.20	-13.73	PK
Horizontal	10460.14	49.51	-9.21	40.30	54.00	-13.70	AV
Horizontal	15690.12	63.98	-7.79	56.19	74.00	-17.81	PK
Horizontal	15690.12	49.58	-7.79	41.79	54.00	-12.21	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
Test Mode is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ax 80

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5210 MHz)-Above 1G							
Vertical	4434.04	71.88	-20.73	51.15	68.20	-17.05	PK
Vertical	4434.04	59.12	-20.73	38.39	54.00	-15.61	AV
Vertical	10420.05	60.51	-9.27	51.24	68.20	-16.96	PK
Vertical	10420.05	49.75	-9.27	40.48	54.00	-13.52	AV
Vertical	15630.12	63.30	-7.81	55.49	74.00	-18.51	PK
Vertical	15630.12	49.58	-7.81	41.77	54.00	-12.23	AV
Horizontal	4434.13	74.09	-20.73	53.36	68.20	-14.84	PK
Horizontal	4434.13	49.28	-20.73	28.55	54.00	-25.45	AV
Horizontal	10420.17	41.35	9.27	50.62	68.20	-17.58	PK
Horizontal	10420.17	29.15	9.27	38.42	54.00	-15.58	AV
Horizontal	15630.02	61.84	-7.81	54.03	74.00	-19.97	PK
Horizontal	15630.02	49.02	-7.81	41.21	54.00	-12.79	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
Test Mode is MIMO Mode.

Test Mode:	TX (5.8G) -- 802.11a

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.10	71.47	-20.24	51.23	74.00	-22.77	PK
Vertical	4679.10	59.02	-20.24	38.78	54.00	-15.22	AV
Vertical	11490.17	60.41	-8.79	51.62	68.20	-16.58	PK
Vertical	11490.17	49.11	-8.79	40.32	54.00	-13.68	AV
Vertical	17235.18	55.95	-3.18	52.77	68.20	-15.43	PK
Vertical	17235.18	44.24	-3.18	41.06	54.00	-12.94	AV
Horizontal	4679.14	74.70	-20.73	53.97	74.00	-20.03	PK
Horizontal	4679.14	59.59	-20.73	38.86	54.00	-15.14	AV
Horizontal	11490.17	61.97	-8.79	53.18	68.20	-15.02	PK
Horizontal	11490.17	49.43	-8.79	40.64	54.00	-13.36	AV
Horizontal	17235.15	59.69	-3.18	56.51	68.20	-11.69	PK
Horizontal	17235.15	44.68	-3.18	41.50	54.00	-12.50	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.05	73.36	-20.42	52.94	74.00	-21.06	PK
Vertical	4592.05	59.59	-20.42	39.17	54.00	-14.83	AV
Vertical	11570.08	61.89	-8.86	53.03	68.20	-15.17	PK
Vertical	11570.08	49.78	-8.86	40.92	54.00	-13.08	AV
Vertical	17355.12	55.93	-2.52	53.41	68.20	-14.79	PK
Vertical	17355.12	44.06	-2.52	41.54	54.00	-12.46	AV
Horizontal	4592.07	73.63	-20.42	53.22	74.00	-20.78	PK
Horizontal	4592.07	59.47	-20.42	39.05	54.00	-14.95	AV
Horizontal	11570.04	63.85	-8.86	54.99	68.20	-13.21	PK
Horizontal	11570.04	49.38	-8.86	40.52	54.00	-13.48	AV
Horizontal	17355.17	58.90	-2.52	56.38	68.20	-11.82	PK
Horizontal	17355.17	44.86	-2.52	42.34	54.00	-11.66	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.16	70.94	-18.93	52.01	68.20	-16.19	PK
Vertical	6039.16	59.88	-18.93	40.95	54.00	-13.05	AV
Vertical	11650.14	60.52	-8.92	51.60	74.00	-22.40	PK
Vertical	11650.14	49.18	-8.92	40.26	54.00	-13.74	AV
Vertical	17475.16	56.09	-1.86	54.23	68.20	-13.97	PK
Vertical	17475.16	44.60	-1.86	42.74	54.00	-11.26	AV
Horizontal	6039.01	72.29	-18.93	53.36	68.20	-14.84	PK
Horizontal	6039.01	59.82	-18.93	40.89	54.00	-13.11	AV
Horizontal	11650.11	62.13	-8.92	53.21	74.00	-20.79	PK
Horizontal	11650.11	49.69	-8.92	40.77	54.00	-13.23	AV
Horizontal	17475.18	56.88	-1.86	55.02	68.20	-13.18	PK
Horizontal	17475.18	44.88	-1.86	43.02	54.00	-10.98	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
The worst case is Antenna A

Test Mode:	TX (5.8G) --802.11n-HT20

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.06	73.18	-20.24	52.93	74.00	-21.07	PK
Vertical	4679.06	59.95	-20.24	39.71	54.00	-14.29	AV
Vertical	11490.18	60.99	-8.79	52.20	68.20	-16.00	PK
Vertical	11490.18	49.50	-8.79	40.71	54.00	-13.29	AV
Vertical	17235.17	56.47	-3.18	53.29	68.20	-14.91	PK
Vertical	17235.17	44.30	-3.18	41.12	54.00	-12.88	AV
Horizontal	4679.09	72.89	-20.24	52.65	74.00	-21.35	PK
Horizontal	4679.09	59.45	-20.24	39.21	54.00	-14.79	AV
Horizontal	11490.01	63.16	-8.79	54.37	68.20	-13.83	PK
Horizontal	11490.01	49.22	-8.79	40.43	54.00	-13.57	AV
Horizontal	17235.01	57.52	-3.18	54.34	68.20	-13.86	PK
Horizontal	17235.01	44.25	-3.18	41.07	54.00	-12.93	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.16	70.65	-20.42	50.23	74.00	-23.77	PK
Vertical	4592.16	59.39	-20.42	38.97	54.00	-15.03	AV
Vertical	11570.15	62.35	-8.86	53.49	68.20	-14.71	PK
Vertical	11570.15	49.68	-8.86	40.82	54.00	-13.18	AV
Vertical	17355.19	57.40	-2.52	54.88	68.20	-13.32	PK
Vertical	17355.19	44.13	-2.52	41.61	54.00	-12.39	AV
Horizontal	4592.08	71.87	-20.42	51.46	74.00	-22.54	PK
Horizontal	4592.08	59.49	-20.42	39.07	54.00	-14.93	AV
Horizontal	11570.16	61.82	-8.86	52.96	68.20	-15.24	PK
Horizontal	11570.16	49.94	-8.86	41.08	54.00	-12.92	AV
Horizontal	17355.02	59.37	-2.52	56.85	68.20	-11.35	PK
Horizontal	17355.02	44.95	-2.52	42.43	54.00	-11.57	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.18	71.48	-18.93	52.55	68.20	-15.65	PK
Vertical	6039.18	59.57	-18.93	40.64	54.00	-13.36	AV
Vertical	11650.17	64.01	-8.92	55.09	74.00	-18.91	PK
Vertical	11650.17	49.54	-8.92	40.62	54.00	-13.38	AV
Vertical	17475.15	59.82	-1.86	57.96	68.20	-10.24	PK
Vertical	17475.15	44.94	-1.86	43.08	54.00	-10.92	AV
Horizontal	6039.07	71.75	-18.93	52.82	68.20	-15.38	PK
Horizontal	6039.07	59.66	-18.93	40.73	54.00	-13.27	AV
Horizontal	11650.16	62.24	-8.92	53.32	74.00	-20.68	PK
Horizontal	11650.16	49.41	-8.92	40.49	54.00	-13.51	AV
Horizontal	17475.17	55.54	-1.86	53.68	68.20	-14.52	PK
Horizontal	17475.17	44.96	-1.86	43.10	54.00	-10.90	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
Test Mode is MIMO Mode.

Test Mode:	TX (5.8G) -- 802.11n-HT40

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.14	70.10	-20.24	49.85	74.00	-24.15	PK
Vertical	4679.14	59.83	-20.24	39.58	54.00	-14.42	AV
Vertical	11510.19	62.99	-8.81	54.18	74.00	-19.82	PK
Vertical	11510.19	49.59	-8.81	40.78	54.00	-13.22	AV
Vertical	17265.02	56.73	-3.01	53.72	68.20	-14.48	PK
Vertical	17265.02	44.44	-3.01	41.43	54.00	-12.57	AV
Horizontal	4679.08	73.10	-20.24	52.86	74.00	-21.14	PK
Horizontal	4679.08	59.88	-20.24	39.64	54.00	-14.36	AV
Horizontal	11510.03	60.69	-8.81	51.88	74.00	-22.12	PK
Horizontal	11510.03	49.23	-8.81	40.42	54.00	-13.58	AV
Horizontal	17265.01	59.58	-3.01	56.57	68.20	-11.63	PK
Horizontal	17265.01	44.59	-3.01	41.58	54.00	-12.42	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.17	72.27	-18.93	53.34	68.20	-14.86	PK
Vertical	6039.17	59.11	-18.93	40.18	54.00	-13.82	AV
Vertical	11590.11	60.62	-8.87	51.75	74.00	-22.25	PK
Vertical	11590.11	49.71	-8.87	40.84	54.00	-13.16	AV
Vertical	17385.20	58.30	-2.35	55.95	68.20	-12.25	PK
Vertical	17385.20	44.85	-2.35	42.50	54.00	-11.50	AV
Horizontal	6039.05	70.91	-18.93	51.98	68.20	-16.22	PK
Horizontal	6039.05	59.86	-18.93	40.93	54.00	-13.07	AV
Horizontal	11590.17	64.55	-8.87	55.68	74.00	-18.32	PK
Horizontal	11590.17	49.96	-8.87	41.09	54.00	-12.91	AV
Horizontal	17385.14	55.83	-2.35	53.48	68.20	-14.72	PK
Horizontal	17385.14	44.32	-2.35	41.97	54.00	-12.03	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
Test Mode is MIMO Mode.

Test Mode:	TX (5.8G) --802.11ac-HT20

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.18	74.48	-20.24	54.24	74.00	-19.76	PK
Vertical	4679.18	59.41	-20.24	39.17	54.00	-14.83	AV
Vertical	11490.04	64.70	-8.79	55.91	68.20	-12.29	PK
Vertical	11490.04	49.92	-8.79	41.13	54.00	-12.87	AV
Vertical	17235.14	59.72	-3.18	56.54	68.20	-11.66	PK
Vertical	17235.14	44.81	-3.18	41.63	54.00	-12.37	AV
Horizontal	4679.08	73.70	-20.24	53.46	74.00	-20.54	PK
Horizontal	4679.08	59.88	-20.24	39.64	54.00	-14.36	AV
Horizontal	11490.13	62.93	-8.79	54.14	68.20	-14.06	PK
Horizontal	11490.13	49.01	-8.79	40.22	54.00	-13.78	AV
Horizontal	17235.18	59.82	-3.18	56.64	68.20	-11.56	PK
Horizontal	17235.18	44.91	-3.18	41.73	54.00	-12.27	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.05	74.90	-20.42	54.48	74.00	-19.52	PK
Vertical	4592.05	59.19	-20.42	38.78	54.00	-15.22	AV
Vertical	11570.04	62.26	-8.86	53.40	68.20	-14.80	PK
Vertical	11570.04	49.28	-8.86	40.42	54.00	-13.58	AV
Vertical	17355.12	55.51	-2.52	52.99	68.20	-15.21	PK
Vertical	17355.12	44.99	-2.52	42.47	54.00	-11.53	AV
Horizontal	4592.00	74.85	-20.42	54.44	74.00	-19.56	PK
Horizontal	4592.00	59.91	-20.42	39.49	54.00	-14.51	AV
Horizontal	11570.08	61.71	-8.86	52.85	68.20	-15.35	PK
Horizontal	11570.08	49.73	-8.86	40.87	54.00	-13.13	AV
Horizontal	17355.16	58.96	-2.52	56.44	68.20	-11.76	PK
Horizontal	17355.16	44.39	-2.52	41.87	54.00	-12.13	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.07	73.29	-18.93	54.36	68.20	-13.84	PK
Vertical	6039.07	59.27	-18.93	40.33	54.00	-13.67	AV
Vertical	11650.05	62.19	-8.92	53.27	74.00	-20.73	PK
Vertical	11650.05	49.80	-8.92	40.88	54.00	-13.12	AV
Vertical	17475.16	56.56	-1.86	54.70	68.20	-13.50	PK
Vertical	17475.16	44.01	-1.86	42.15	54.00	-11.85	AV
Horizontal	6039.01	74.38	-18.93	55.45	68.20	-12.75	PK
Horizontal	6039.01	59.48	-18.93	40.55	54.00	-13.45	AV
Horizontal	11650.05	60.34	-8.92	51.42	74.00	-22.58	PK
Horizontal	11650.05	49.23	-8.92	40.31	54.00	-13.69	AV
Horizontal	17475.12	58.35	-1.86	56.49	68.20	-11.71	PK
Horizontal	17475.12	44.60	-1.86	42.74	54.00	-11.26	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
Test Mode is MIMO Mode.

Test Mode :	TX (5.8G) -- 802.11ac-HT40

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.10	70.27	-20.24	50.03	74.00	-23.97	PK
Vertical	4679.10	59.61	-20.24	39.37	54.00	-14.63	AV
Vertical	11510.03	62.78	-8.81	53.97	74.00	-20.03	PK
Vertical	11510.03	49.31	-8.81	40.50	54.00	-13.50	AV
Vertical	17265.11	57.15	-3.01	54.14	68.20	-14.06	PK
Vertical	17265.11	44.31	-3.01	41.30	54.00	-12.70	AV
Horizontal	4679.12	70.26	-20.24	50.01	74.00	-23.99	PK
Horizontal	4679.12	59.79	-20.24	39.54	54.00	-14.46	AV
Horizontal	11510.12	63.14	-8.81	54.33	74.00	-19.67	PK
Horizontal	11510.12	49.35	-8.81	40.54	54.00	-13.46	AV
Horizontal	17265.05	57.73	-3.01	54.72	68.20	-13.48	PK
Horizontal	17265.05	44.75	-3.01	41.74	54.00	-12.26	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.12	74.55	-18.93	55.62	68.20	-12.58	PK
Vertical	6039.12	59.01	-18.93	40.08	54.00	-13.92	AV
Vertical	11590.14	62.84	-8.87	53.97	74.00	-20.03	PK
Vertical	11590.14	49.43	-8.87	40.56	54.00	-13.44	AV
Vertical	17385.06	56.38	-2.35	54.03	68.20	-14.17	PK
Vertical	17385.06	44.88	-2.35	42.53	54.00	-11.47	AV
Horizontal	6039.09	73.39	-18.93	54.46	68.20	-13.74	PK
Horizontal	6039.09	59.81	-18.93	40.88	54.00	-13.12	AV
Horizontal	11590.08	64.37	-8.87	55.50	74.00	-18.50	PK
Horizontal	11590.08	49.47	-8.87	40.60	54.00	-13.40	AV
Horizontal	17385.10	55.59	-2.35	53.24	68.20	-14.96	PK
Horizontal	17385.10	44.04	-2.35	41.69	54.00	-12.31	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
Test Mode is MIMO Mode.

Test Mode :	TX (5.8G) -- 802.11ac 80

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5775 MHz)-Above 1G							
Vertical	4679.16	70.28	-20.24	50.04	74.00	-23.96	PK
Vertical	4679.16	59.55	-20.24	39.31	54.00	-14.69	AV
Vertical	11550.13	63.42	-8.84	54.58	74.00	-19.42	PK
Vertical	11550.13	49.78	-8.84	40.94	54.00	-13.06	AV
Vertical	17325.14	55.31	-2.68	52.63	68.20	-15.57	PK
Vertical	17325.14	44.05	-2.68	41.37	54.00	-12.63	AV
Horizontal	4679.03	71.00	-20.24	50.76	74.00	-23.24	PK
Horizontal	4679.03	59.17	-20.24	38.93	54.00	-15.07	AV
Horizontal	11550.09	61.76	-8.84	52.92	74.00	-21.08	PK
Horizontal	11550.09	49.67	-8.84	40.83	54.00	-13.17	AV
Horizontal	17325.01	56.67	-2.68	53.99	68.20	-14.21	PK
Horizontal	17325.01	44.70	-2.68	42.02	54.00	-11.98	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
Test Mode is MIMO Mode.

Test Mode:	TX (5.8G) --802.11ax-HT20

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.08	74.53	-20.24	54.29	74.00	-19.71	PK
Vertical	4679.08	59.60	-20.24	39.36	54.00	-14.64	AV
Vertical	11490.14	60.55	-8.79	51.76	68.20	-16.44	PK
Vertical	11490.14	49.52	-8.79	40.73	54.00	-13.27	AV
Vertical	17235.17	56.29	-3.18	53.11	68.20	-15.09	PK
Vertical	17235.17	44.22	-3.18	41.04	54.00	-12.96	AV
Horizontal	4679.17	74.15	-20.24	53.91	74.00	-20.09	PK
Horizontal	4679.17	59.31	-20.24	39.07	54.00	-14.93	AV
Horizontal	11490.06	64.85	-8.79	56.06	68.20	-12.14	PK
Horizontal	11490.06	49.92	-8.79	41.13	54.00	-12.87	AV
Horizontal	17235.09	56.72	-3.18	53.54	68.20	-14.66	PK
Horizontal	17235.09	44.57	-3.18	41.39	54.00	-12.61	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.19	70.30	-20.42	49.88	74.00	-24.12	PK
Vertical	4592.19	59.96	-20.42	39.54	54.00	-14.46	AV
Vertical	11570.11	63.04	-8.86	54.18	68.20	-14.02	PK
Vertical	11570.11	49.12	-8.86	40.26	54.00	-13.74	AV
Vertical	17355.16	56.21	-2.52	53.69	68.20	-14.51	PK
Vertical	17355.16	44.91	-2.52	42.39	54.00	-11.61	AV
Horizontal	4592.10	73.36	-20.42	52.94	74.00	-21.06	PK
Horizontal	4592.10	59.02	-20.42	38.60	54.00	-15.40	AV
Horizontal	11570.18	64.22	-8.86	55.36	68.20	-12.84	PK
Horizontal	11570.18	49.32	-8.86	40.46	54.00	-13.54	AV
Horizontal	17355.01	57.70	-2.52	55.18	68.20	-13.02	PK
Horizontal	17355.01	44.56	-2.52	42.04	54.00	-11.96	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.11	73.40	-18.93	54.47	68.20	-13.73	PK
Vertical	6039.11	59.72	-18.93	40.78	54.00	-13.22	AV
Vertical	11650.12	63.76	-8.92	54.84	74.00	-19.16	PK
Vertical	11650.12	49.56	-8.92	40.64	54.00	-13.36	AV
Vertical	17475.16	58.32	-1.86	56.46	68.20	-11.74	PK
Vertical	17475.16	44.10	-1.86	42.24	54.00	-11.76	AV
Horizontal	6039.07	71.59	-18.93	52.66	68.20	-15.54	PK
Horizontal	6039.07	59.72	-18.93	40.79	54.00	-13.21	AV
Horizontal	11650.08	63.93	-8.92	55.01	74.00	-18.99	PK
Horizontal	11650.08	49.90	-8.92	40.98	54.00	-13.02	AV
Horizontal	17475.13	56.68	-1.86	54.82	68.20	-13.38	PK
Horizontal	17475.13	44.01	-1.86	42.15	54.00	-11.85	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
Test Mode is MIMO Mode.

Test Mode :	TX (5.8G) -- 802.11ax-HT40

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.18	72.93	-20.24	52.69	74.00	-21.31	PK
Vertical	4679.18	59.71	-20.24	39.46	54.00	-14.54	AV
Vertical	11510.12	64.64	-8.81	55.83	74.00	-18.17	PK
Vertical	11510.12	49.65	-8.81	40.84	54.00	-13.16	AV
Vertical	17265.18	57.39	-3.01	54.38	68.20	-13.82	PK
Vertical	17265.18	44.96	-3.01	41.95	54.00	-12.05	AV
Horizontal	4679.06	73.82	-20.24	53.57	74.00	-20.43	PK
Horizontal	4679.06	59.82	-20.24	39.58	54.00	-14.42	AV
Horizontal	11510.03	63.79	-8.81	54.98	74.00	-19.02	PK
Horizontal	11510.03	49.61	-8.81	40.80	54.00	-13.20	AV
Horizontal	17265.19	56.41	-3.01	53.40	68.20	-14.80	PK
Horizontal	17265.19	44.29	-3.01	41.28	54.00	-12.72	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.06	73.98	-18.93	55.05	68.20	-13.15	PK
Vertical	6039.06	59.41	-18.93	40.48	54.00	-13.52	AV
Vertical	11590.07	60.59	-8.87	51.72	74.00	-22.28	PK
Vertical	11590.07	49.35	-8.87	40.48	54.00	-13.52	AV
Vertical	17385.17	58.45	-2.35	56.10	68.20	-12.10	PK
Vertical	17385.17	44.53	-2.35	42.18	54.00	-11.82	AV
Horizontal	6039.10	73.36	-18.93	54.42	68.20	-13.78	PK
Horizontal	6039.10	59.35	-18.93	40.41	54.00	-13.59	AV
Horizontal	11590.14	63.02	-8.87	54.15	74.00	-19.85	PK
Horizontal	11590.14	49.51	-8.87	40.64	54.00	-13.36	AV
Horizontal	17385.15	58.10	-2.35	55.75	68.20	-12.45	PK
Horizontal	17385.15	44.53	-2.35	42.18	54.00	-11.82	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
Test Mode is MIMO Mode.

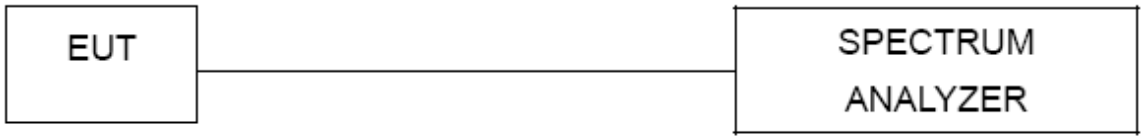
Test Mode :	TX (5.8G) -- 802.11ax 80

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5775 MHz)-Above 1G							
Vertical	4679.17	73.01	-20.24	52.76	74.00	-21.24	PK
Vertical	4679.17	59.35	-20.24	39.11	54.00	-14.89	AV
Vertical	11550.17	64.73	-8.84	55.89	74.00	-18.11	PK
Vertical	11550.17	49.59	-8.84	40.75	54.00	-13.25	AV
Vertical	17325.03	57.39	-2.68	54.71	68.20	-13.49	PK
Vertical	17325.03	44.62	-2.68	41.94	54.00	-12.06	AV
Horizontal	4679.02	74.80	-20.24	54.55	74.00	-19.45	PK
Horizontal	4679.02	59.11	-20.24	38.87	54.00	-15.13	AV
Horizontal	11550.16	60.93	-8.84	52.09	74.00	-21.91	PK
Horizontal	11550.16	49.04	-8.84	40.20	54.00	-13.80	AV
Horizontal	17325.08	55.23	-2.68	52.55	68.20	-15.65	PK
Horizontal	17325.08	44.52	-2.68	41.84	54.00	-12.16	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
Test Mode is MIMO Mode.

8. Power Spectral Density Test

8.1 Block Diagram Of Test Setup



8.2 Limit

For the band 5.15-5.25 GHz,
(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
For the band 5.725-5.85 GHz
(3)For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.3 Test Procedure

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:
a) Set RBW ≥ 1/T, where T is defined in section II.B.I.a).
b) Set VBW ≥ 3 RBW.
c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.
Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

8.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

8.5 Test Result

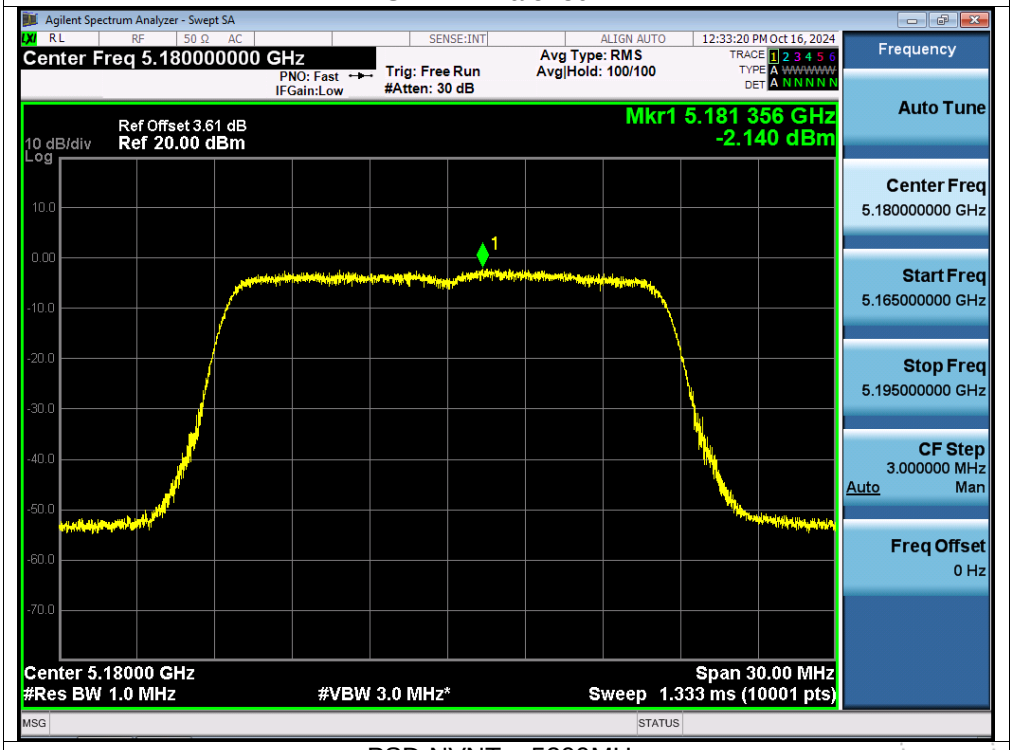
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	AC 120V/60HZ
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

Condition	Mode	Frequency (MHz)	Measured Power Density (dBm/MHz)			Limit (dBm/MHz)	Result
			ANT A	ANT B	Total		
NVNT	a	5180	-2.31	**-2.14**	/	11	PASS
NVNT	a	5200	-2.62	-2.37	/	11	PASS
NVNT	a	5240	-3.37	-2.96	/	11	PASS
NVNT	n20	5180	-3.31	-3.51	-0.40	11	PASS
NVNT	n20	5200	-4.12	-3.96	-1.03	11	PASS
NVNT	n20	5240	-4.21	-4.65	-1.41	11	PASS
NVNT	n40	5190	-8.44	-8.79	-5.60	11	PASS
NVNT	n40	5230	-9.19	-10.02	-6.57	11	PASS
NVNT	ac20	5180	-3.55	-3.55	-0.54	11	PASS
NVNT	ac20	5200	-3.72	-4.11	-0.90	11	PASS
NVNT	ac20	5240	-4.27	-4.86	-1.54	11	PASS
NVNT	ac40	5190	-8.7	-8.6	-5.64	11	PASS
NVNT	ac40	5230	-9.39	-9.96	-6.66	11	PASS
NVNT	ac80	5210	-11.93	-11.92	-8.91	11	PASS
NVNT	ax20	5180	-3.76	-3.11	-0.41	11	PASS
NVNT	ax20	5200	-3.62	-4.06	-0.82	11	PASS
NVNT	ax20	5240	-3.99	-4.72	-1.33	11	PASS
NVNT	ax40	5190	-8.66	-8.95	-5.79	11	PASS
NVNT	ax40	5230	-8.63	-9.75	-6.14	11	PASS
NVNT	ax80	5210	-11.18	-11.81	-8.47	11	PASS

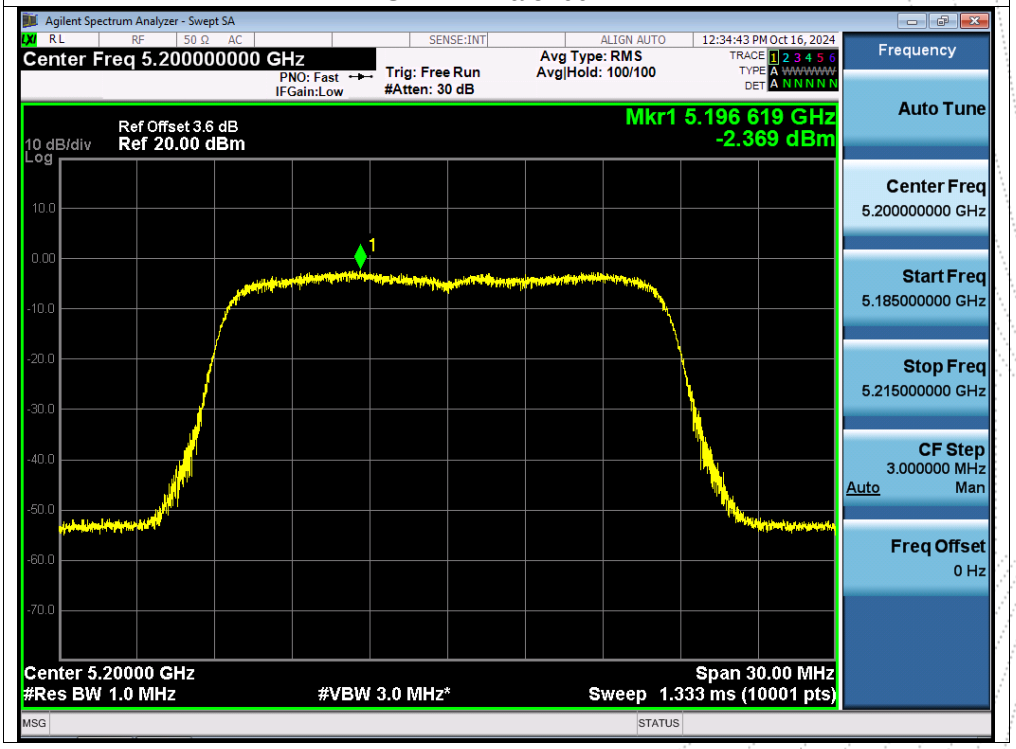
Note:
Antenna A gain:1.4 dBi, Antenna B gain: 1.4 dBi, Directional gain=[GainANT + 10 log(NANT) dBi] =4.41 dbi<6dbi
Limit=11 dBm/MHz

Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

Test Graphs
PSD NVNT a 5180MHz



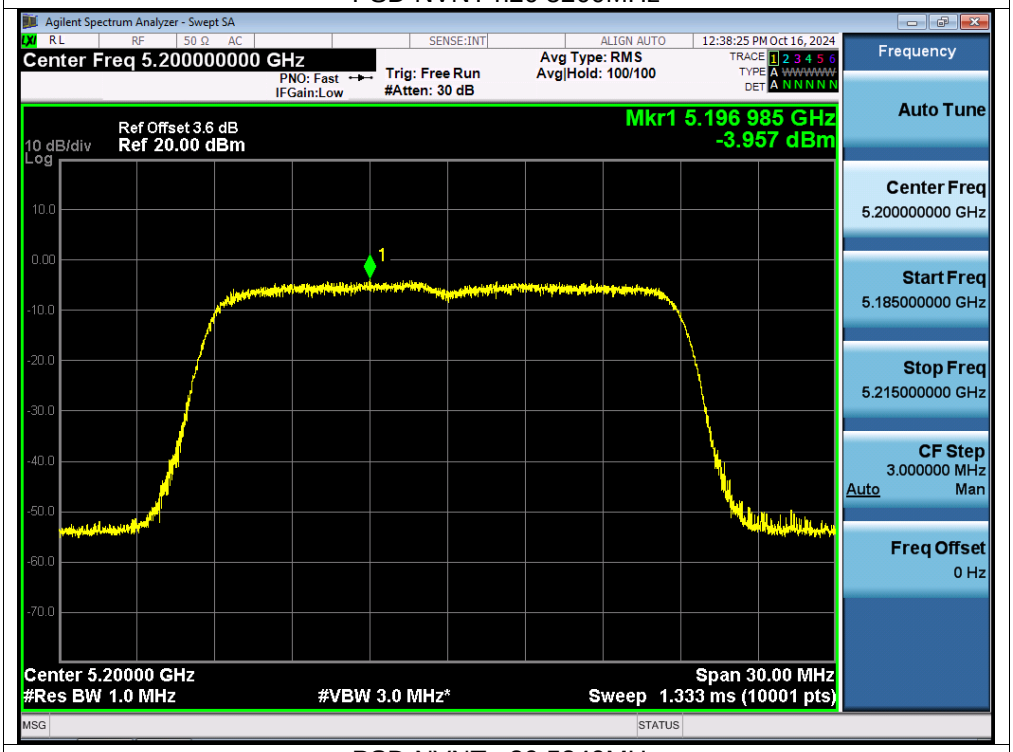
PSD NVNT a 5200MHz



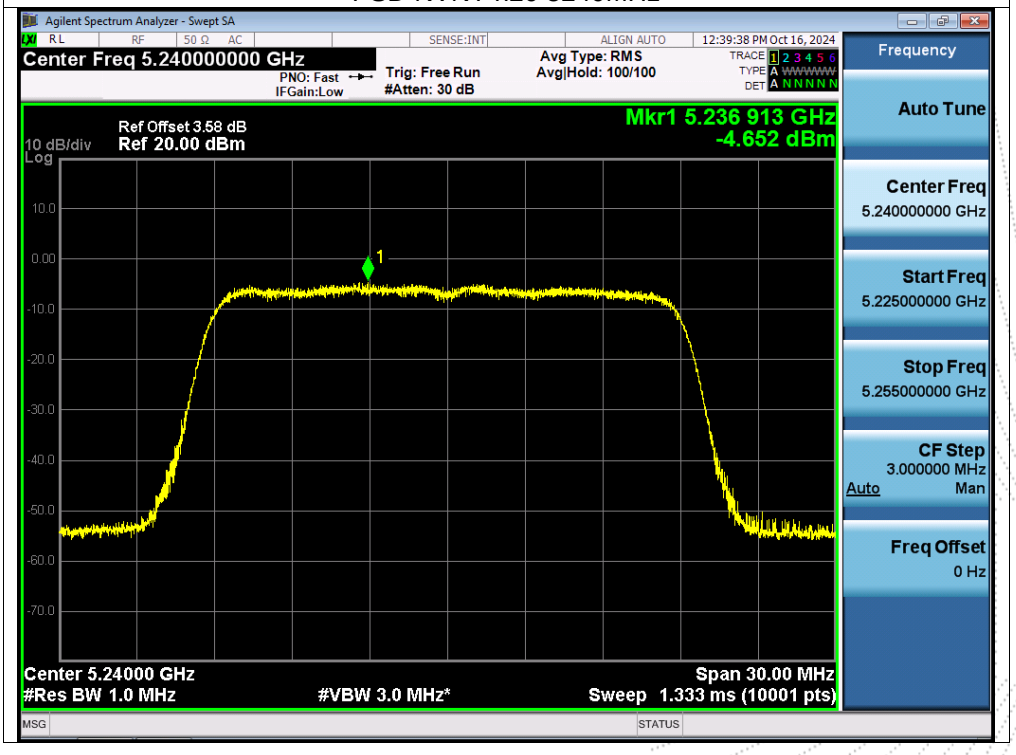
PSD NVNT a 5240MHz

PSD NVNT n20 5180MHz

PSD NVNT n20 5200MHz



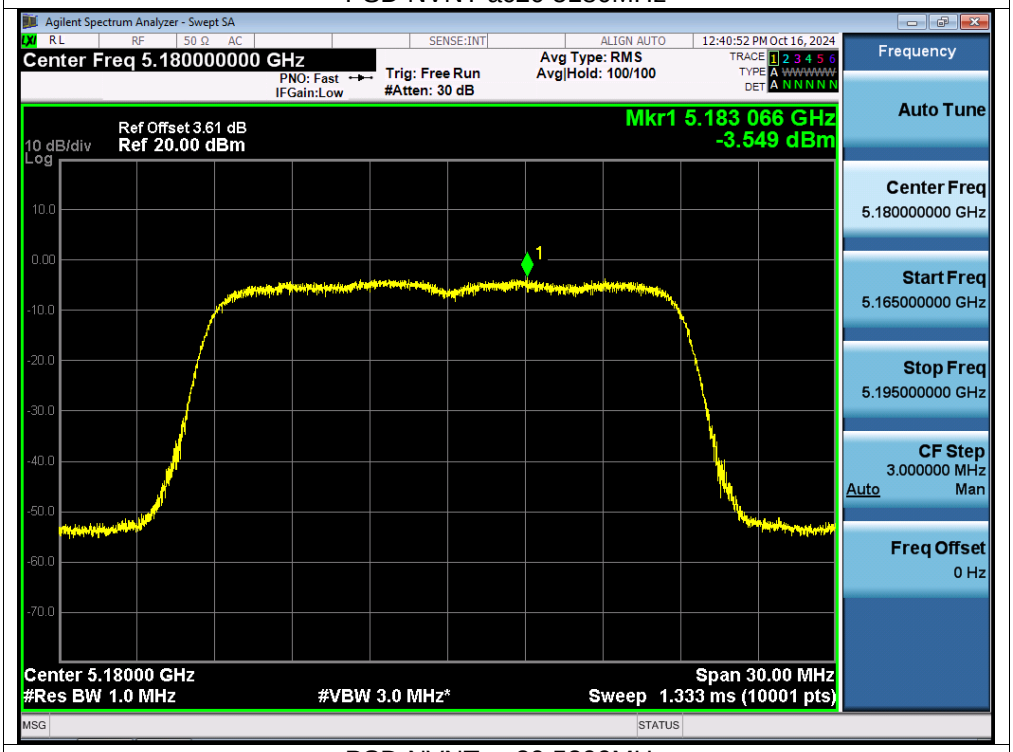
PSD NVNT n20 5240MHz



PSD NVNT n40 5190MHz

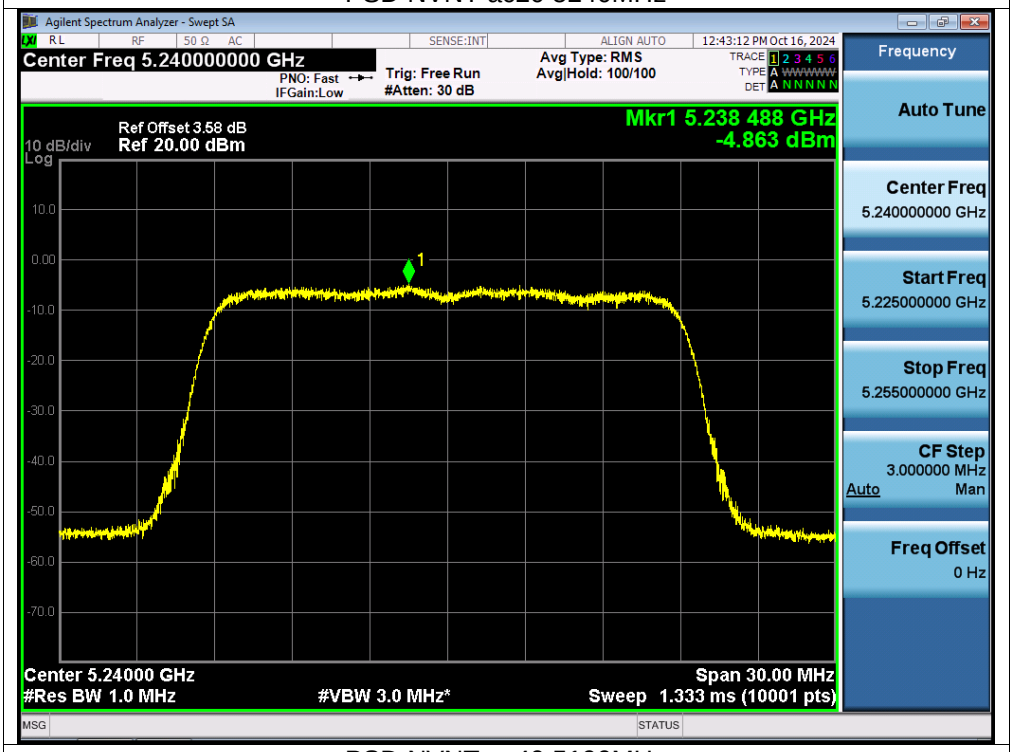
PSD NVNT n40 5230MHz

PSD NVNT ac20 5180MHz



PSD NVNT ac20 5200MHz

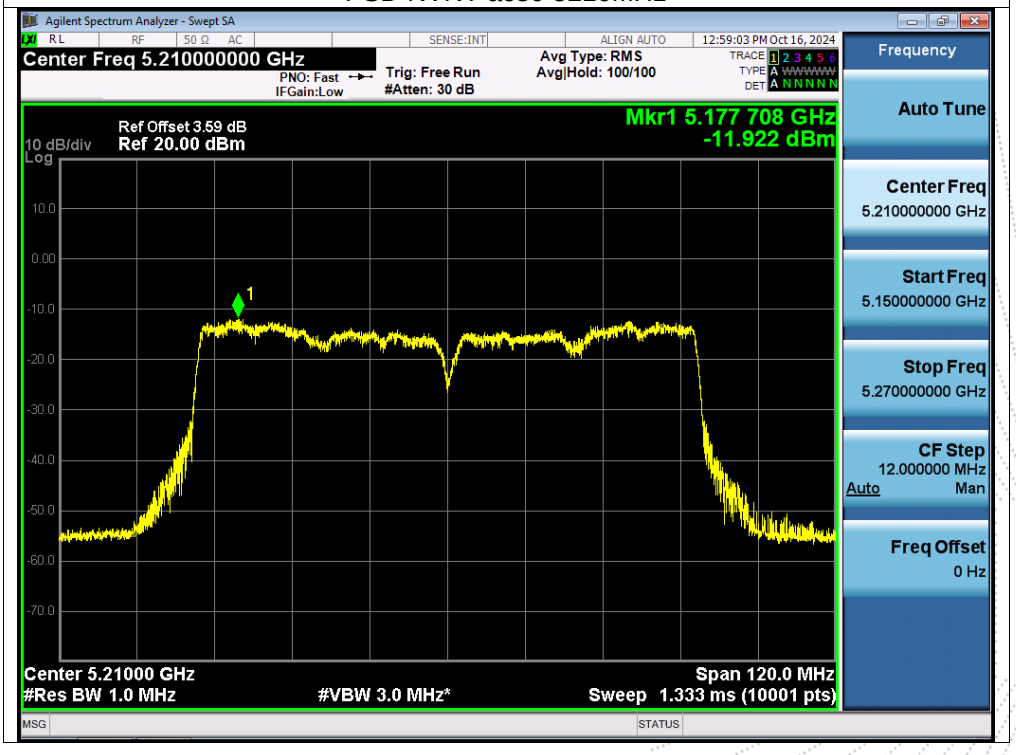
PSD NVNT ac20 5240MHz



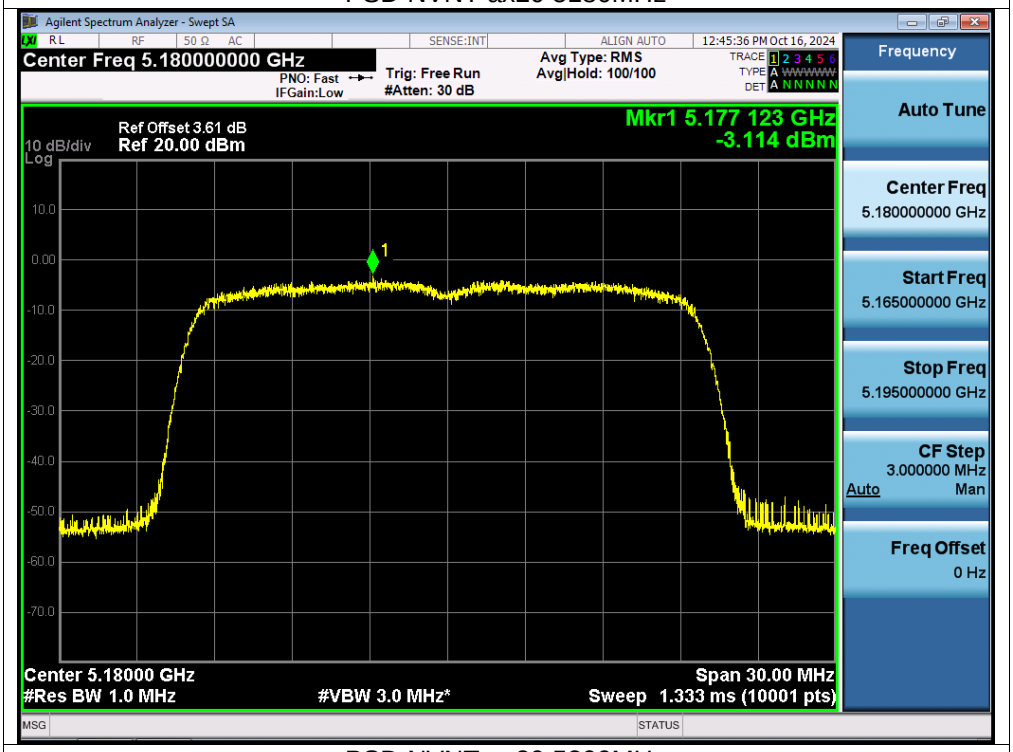
PSD NVNT ac40 5190MHz

PSD NVNT ac40 5230MHz

PSD NVNT ac80 5210MHz



PSD NVNT ax20 5180MHz



PSD NVNT ax20 5200MHz

PSD NVNT ax20 5240MHz

PSD NVNT ax40 5190MHz

PSD NVNT ax40 5230MHz

PSD NVNT ax80 5210MHz

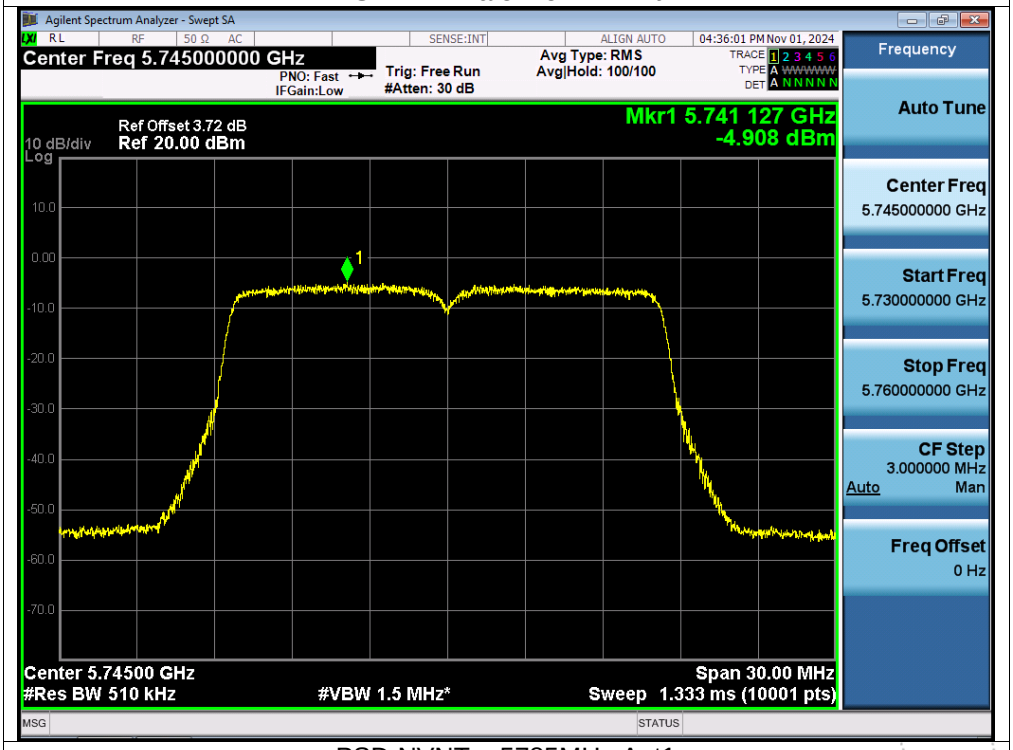
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	AC 120V/60HZ
Test Mode:	TX Frequency U-NII-3 (5745-5825MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/510KHz)		Conducted PSD (dBm/500KHz)				Verdict
			Ant A	Ant B	Ant A	Ant B	Total	Limit	
NVNT	a	5745	**-4.91**	-5.51	-4.996	-5.596	/	30	Pass
NVNT	a	5785	-5.91	-6.29	-5.996	-6.376	/	30	Pass
NVNT	a	5825	-6.2	-6.3	-6.286	-6.386	/	30	Pass
NVNT	n20	5745	-6.71	-6.82	-6.796	-6.906	-3.84	30	Pass
NVNT	n20	5785	-7.09	-7.7	-7.176	-7.786	-4.46	30	Pass
NVNT	n20	5825	-7.74	-8.02	-7.826	-8.106	-4.95	30	Pass
NVNT	n40	5755	-9.52	-9.66	-9.606	-9.746	-6.67	30	Pass
NVNT	n40	5795	-10.05	-10.37	-10.136	-10.456	-7.28	30	Pass
NVNT	ac20	5745	-6.5	-6.77	-6.586	-6.856	-3.71	30	Pass
NVNT	ac20	5785	-7.17	-7.65	-7.256	-7.736	-4.48	30	Pass
NVNT	ac20	5825	-7.39	-0.04	-7.476	-0.126	0.61	30	Pass
NVNT	ac40	5755	-9.21	-9.93	-9.296	-10.016	-6.63	30	Pass
NVNT	ac40	5795	-10.58	-10.45	-10.666	-10.536	-7.59	30	Pass
NVNT	ac80	5775	-12.48	-13.15	-12.566	-13.236	-9.88	30	Pass
NVNT	ax20	5745	-6.74	-7.42	-6.826	-7.506	-4.14	30	Pass
NVNT	ax20	5785	-7.51	-7.99	-7.596	-8.076	-4.82	30	Pass
NVNT	ax20	5825	-7.9	-8.26	-7.986	-8.346	-5.15	30	Pass
NVNT	ax40	5755	-11.03	-11.75	-11.116	-11.836	-8.45	30	Pass
NVNT	ax40	5795	-11.54	-12.63	-11.626	-12.716	-9.13	30	Pass
NVNT	ax80	5775	-15.24	-15.07	-15.326	-15.156	-12.23	30	Pass
Note: Correction Factor = 10log(500KHz/RBW in measurement) =-0.086									

Note:
Antenna A gain:1.44 dBi, Antenna B gain: 1.44 dBi, Directional gain=[GainANT + 10 log(NANT) dBi] =4.45 dbi<6dbi
Limit=30 dBm/500KHz

Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

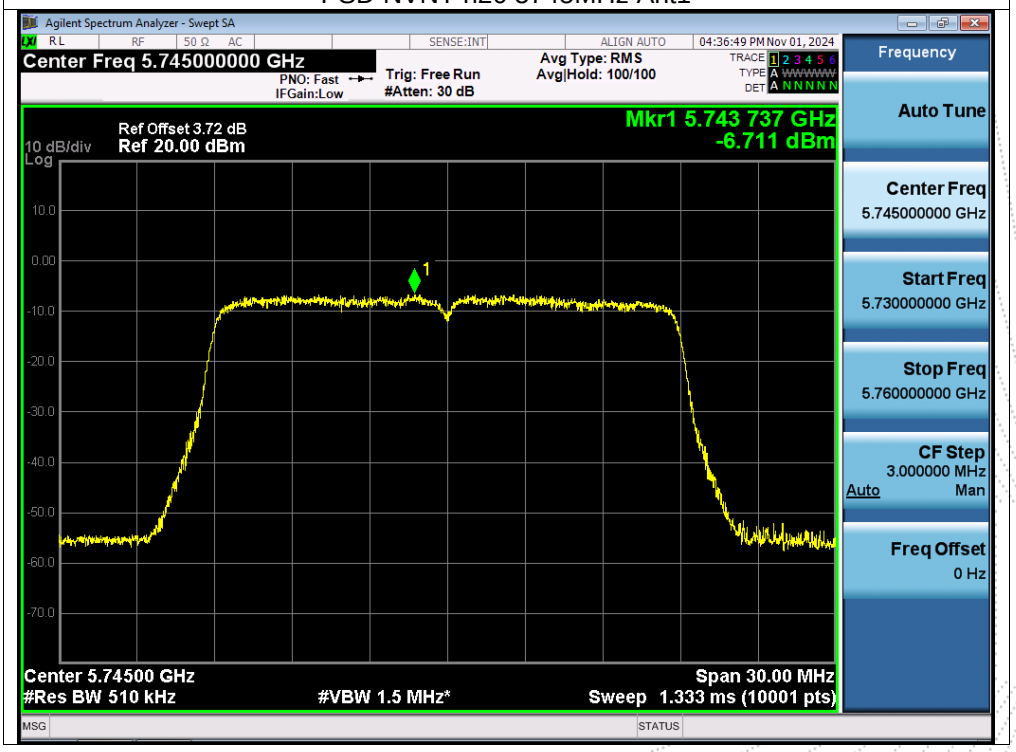
Test Graphs
PSD NVNT a 5745MHz Ant1



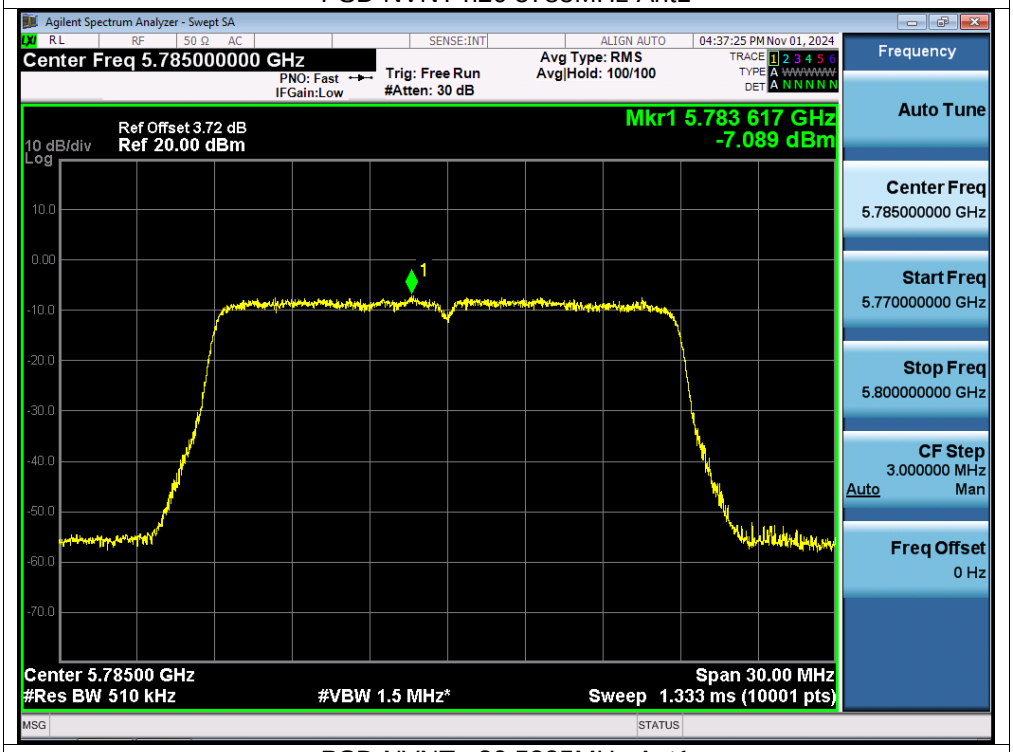
PSD NVNT a 5785MHz Ant1

PSD NVNT a 5825MHz Ant1

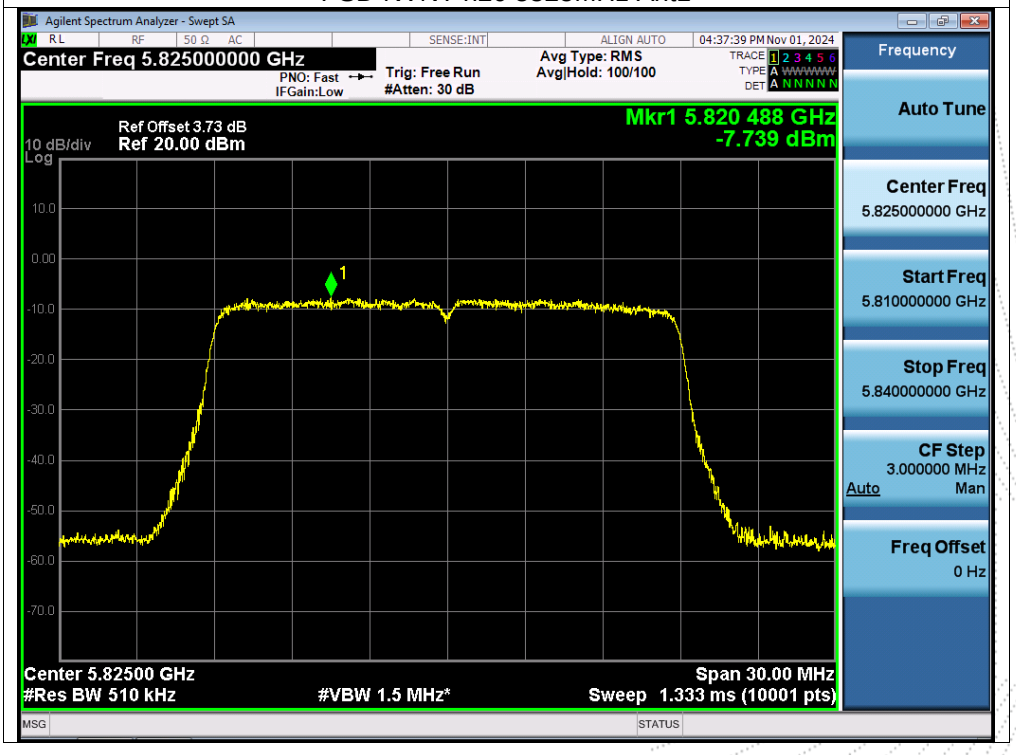
PSD NVNT n20 5745MHz Ant1



PSD NVNT n20 5785MHz Ant1



PSD NVNT n20 5825MHz Ant1

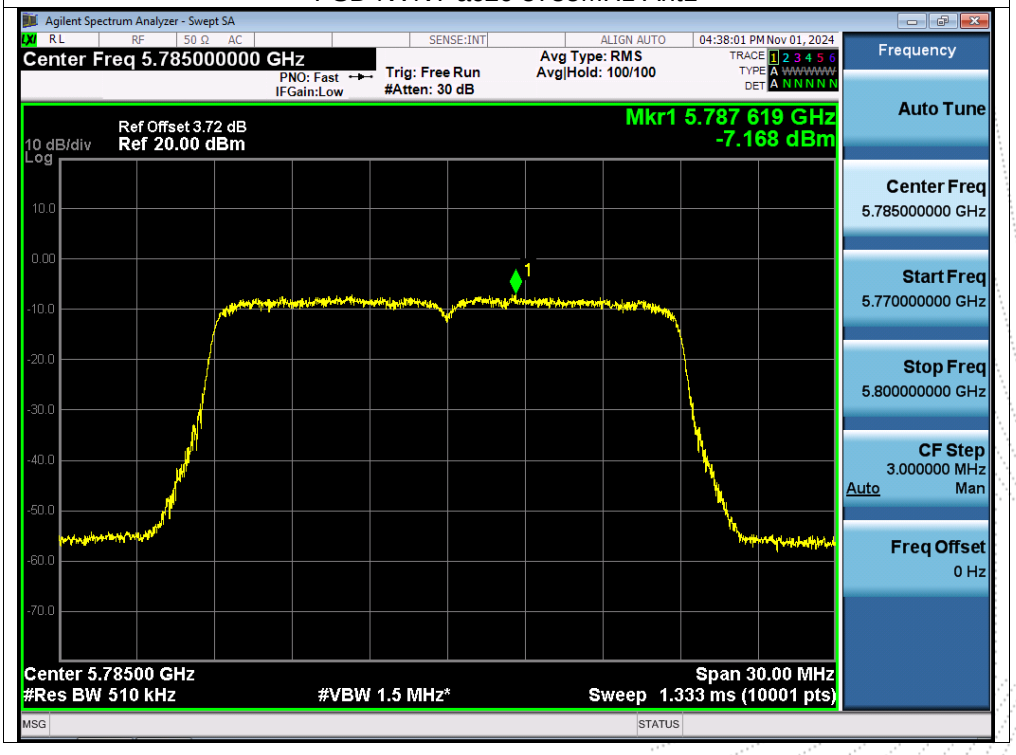


PSD NVNT n40 5755MHz Ant1

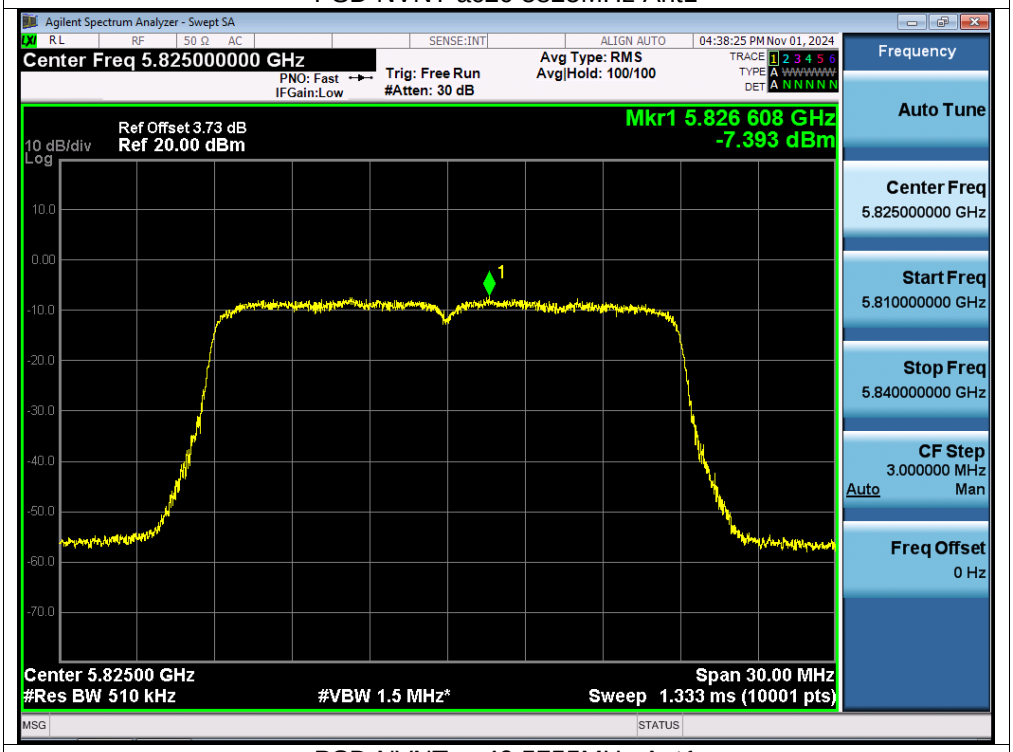
PSD NVNT n40 5795MHz Ant1

PSD NVNT ac20 5745MHz Ant1

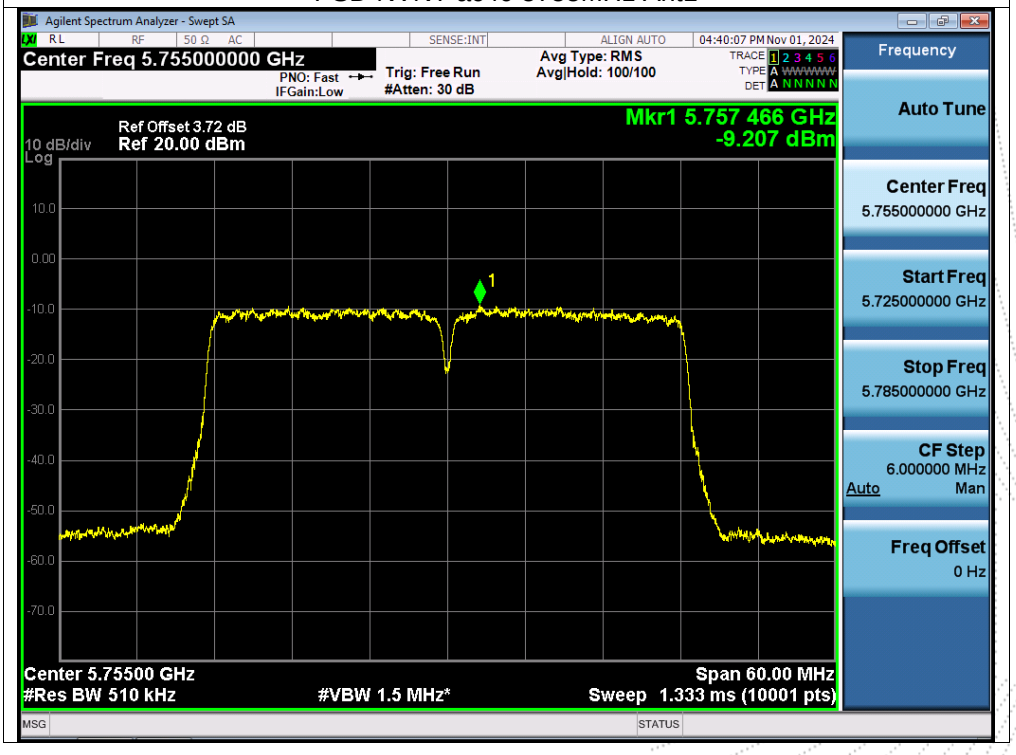
PSD NVNT ac20 5785MHz Ant1



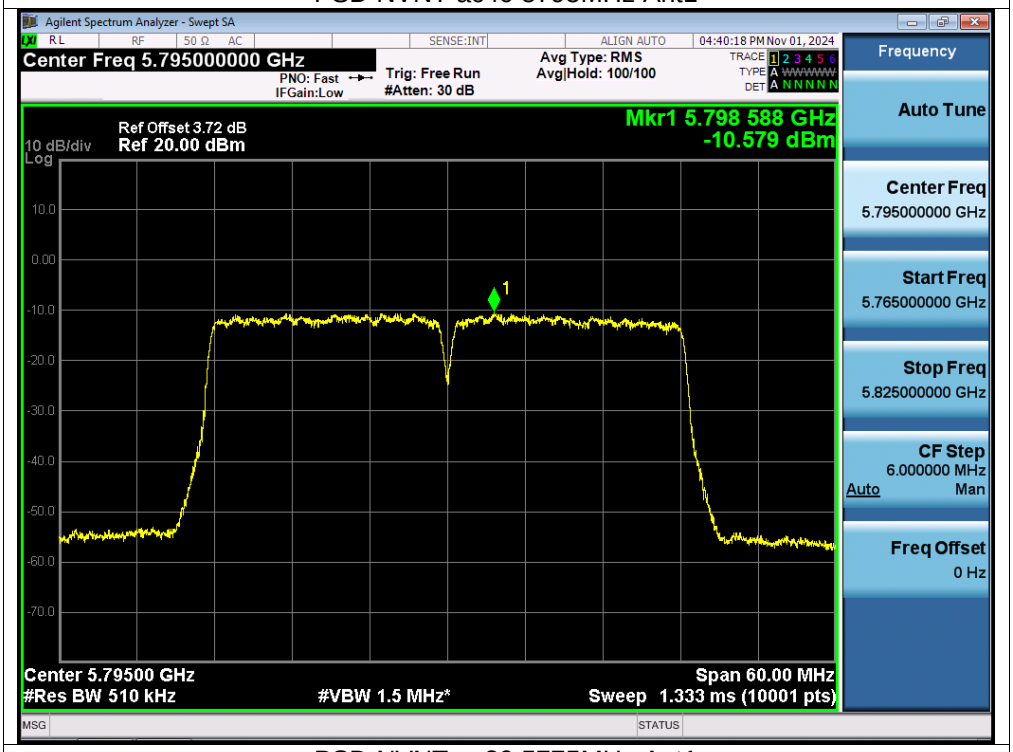
PSD NVNT ac20 5825MHz Ant1



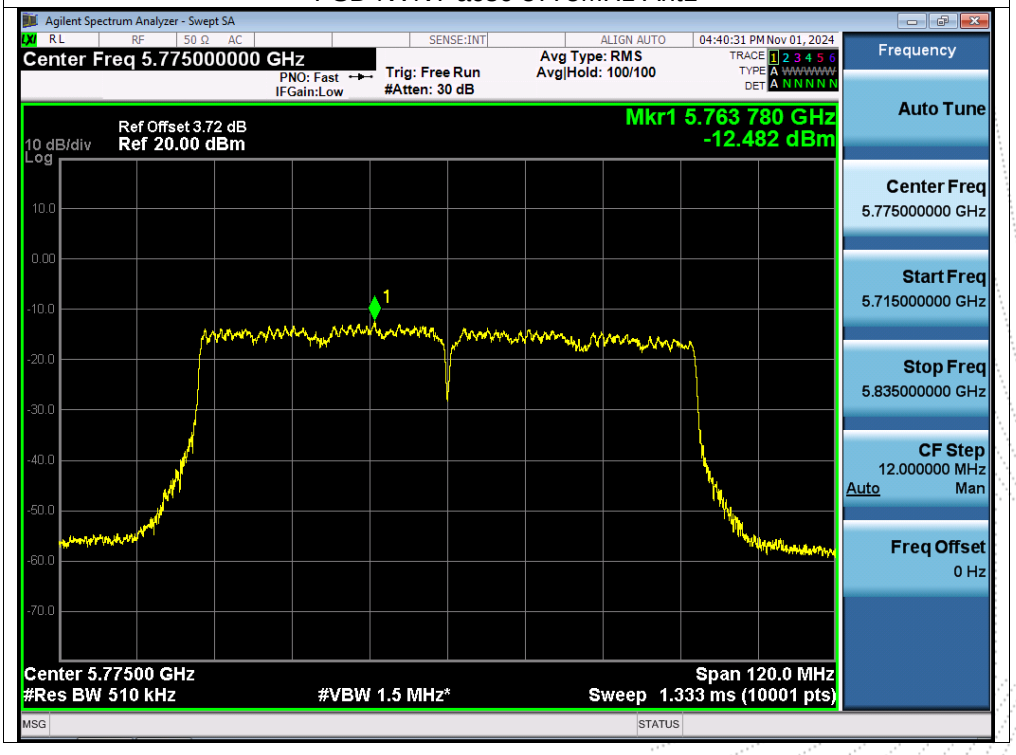
PSD NVNT ac40 5755MHz Ant1



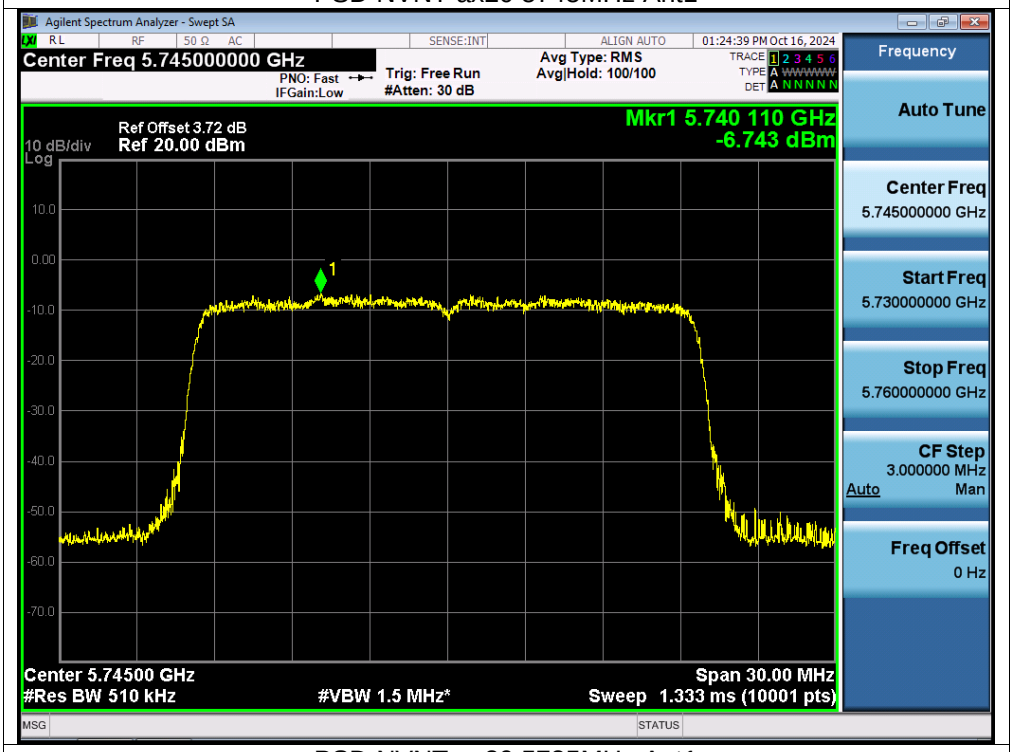
PSD NVNT ac40 5795MHz Ant1



PSD NVNT ac80 5775MHz Ant1



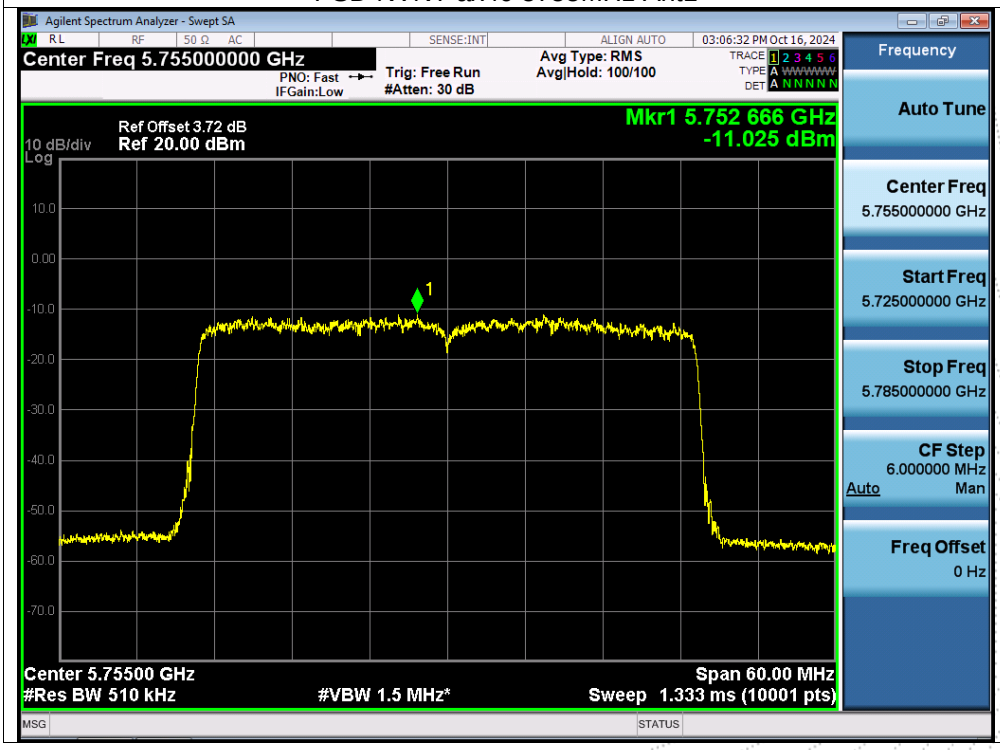
PSD NVNT ax20 5745MHz Ant1



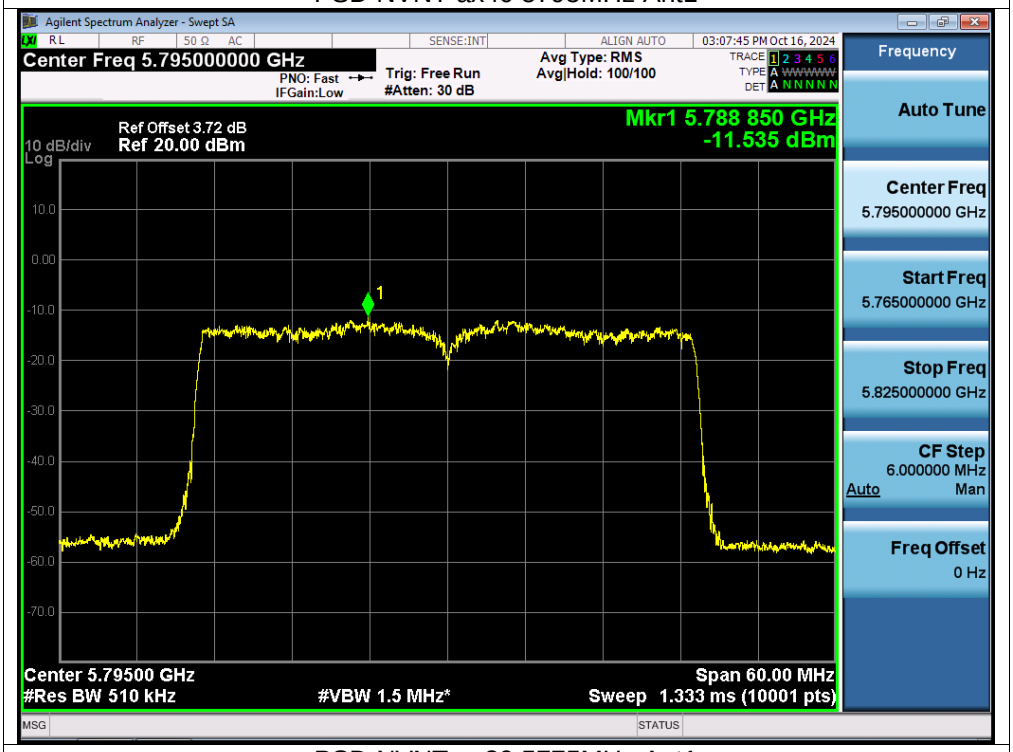
PSD NVNT ax20 5785MHz Ant1

PSD NVNT ax20 5825MHz Ant1

PSD NVNT ax40 5755MHz Ant1



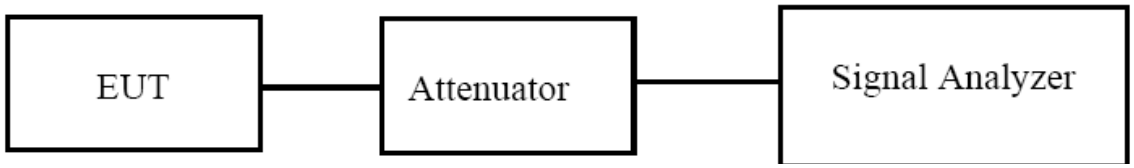
PSD NVNT ax40 5795MHz Ant1



PSD NVNT ax80 5775MHz Ant1

9. 26dB & 6dB & 99% Emission Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power
is integrated over the full reference bandwidth.
(6dB bandwidth)>500kHz

9.3 Test Procedure

a) Set RBW = approximately 1% of the emission bandwidth.
b) Set the VBW > RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

The following procedure shall be used for measuring (99 %) power bandwidth:
1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW ≥ 3 · RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

6dB
1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.

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

9.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

9.5 Test Result

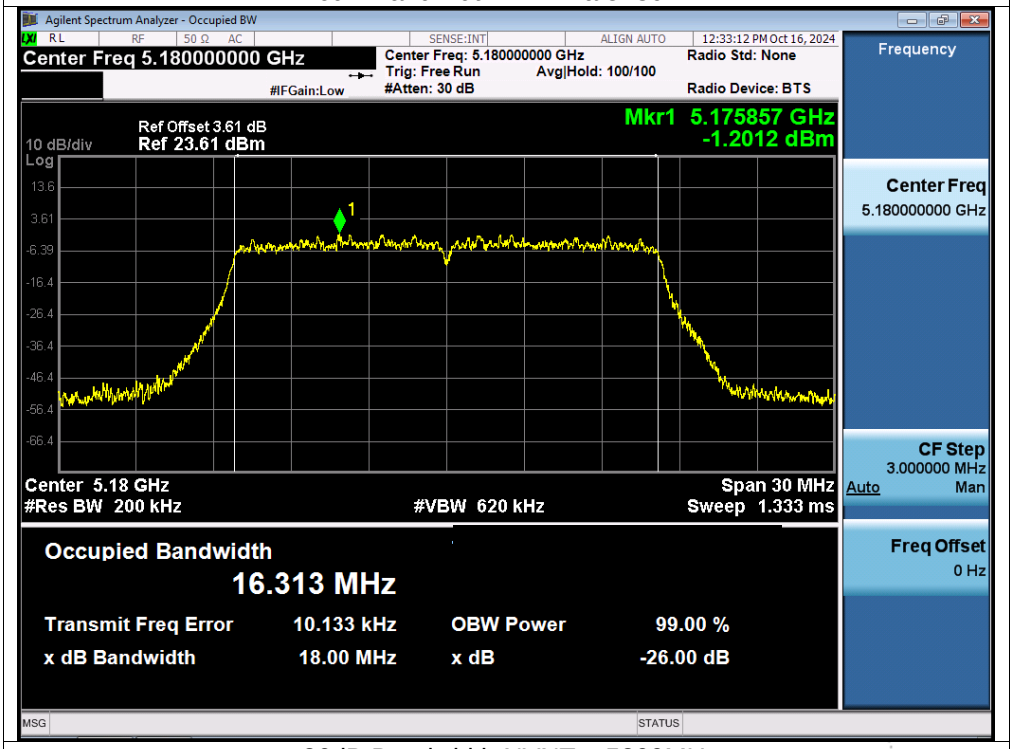
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	AC 120V/60HZ
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)		99% OBW (MHz)		Verdict
			Ant A	Ant B	Ant A	Ant B	
NVNT	a	5180	18.227	18.002	16.318	16.317	Pass
NVNT	a	5200	18.197	18.056	16.322	16.305	Pass
NVNT	a	5240	18.214	18.126	16.325	16.315	Pass
NVNT	n20	5180	19.15	19.096	17.509	17.483	Pass
NVNT	n20	5200	19.137	19.1	17.513	17.48	Pass
NVNT	n20	5240	19.143	19.12	17.496	17.496	Pass
NVNT	n40	5190	38.907	38.645	36.207	36.16	Pass
NVNT	n40	5230	38.856	38.928	36.175	36.199	Pass
NVNT	ac20	5180	19.247	19.193	17.531	17.523	Pass
NVNT	ac20	5200	19.404	19.278	17.52	17.525	Pass
NVNT	ac20	5240	19.327	19.157	17.529	17.518	Pass
NVNT	ac40	5190	38.798	38.809	36.052	36.047	Pass
NVNT	ac40	5230	38.895	38.725	36.027	36.047	Pass
NVNT	ac80	5210	86.247	**86.343**	76.232	76.393	Pass
NVNT	ax20	5180	20.229	20.24	18.865	18.861	Pass
NVNT	ax20	5200	20.23	20.109	18.875	18.843	Pass
NVNT	ax20	5240	20.131	20.045	18.857	18.86	Pass
NVNT	ax40	5190	39.517	39.596	37.668	37.611	Pass
NVNT	ax40	5230	39.594	39.741	37.658	37.656	Pass
NVNT	ax80	5210	80.235	80.361	77.164	**77.333**	Pass

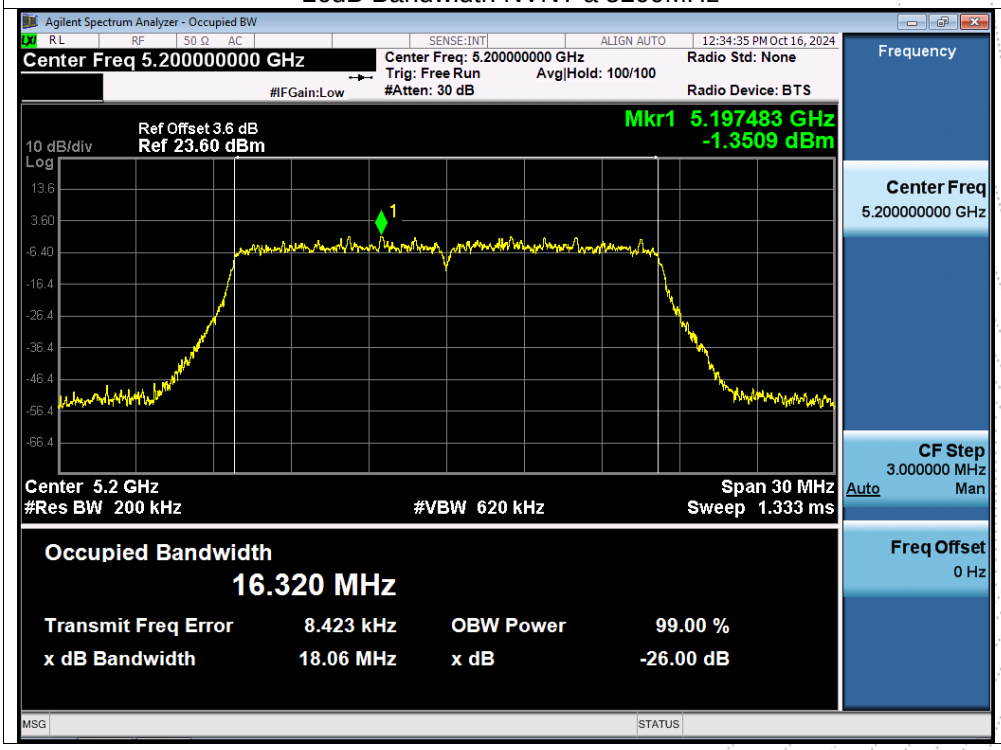
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

Test Graphs

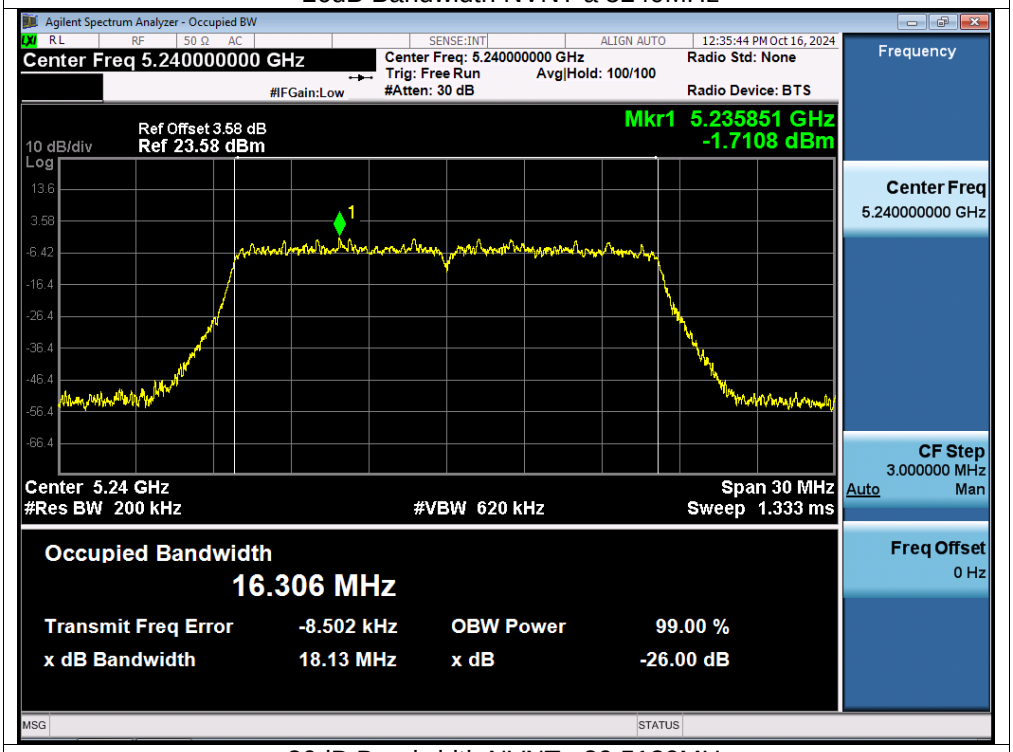
-26dB Bandwidth NVNT a 5180MHz



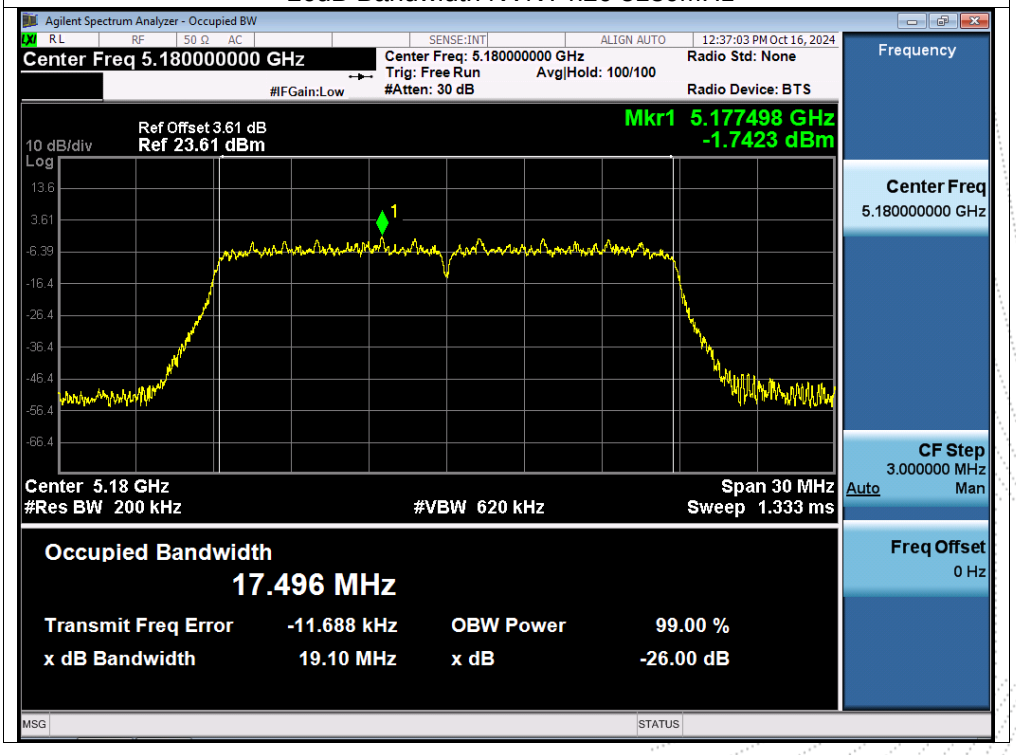
-26dB Bandwidth NVNT a 5200MHz



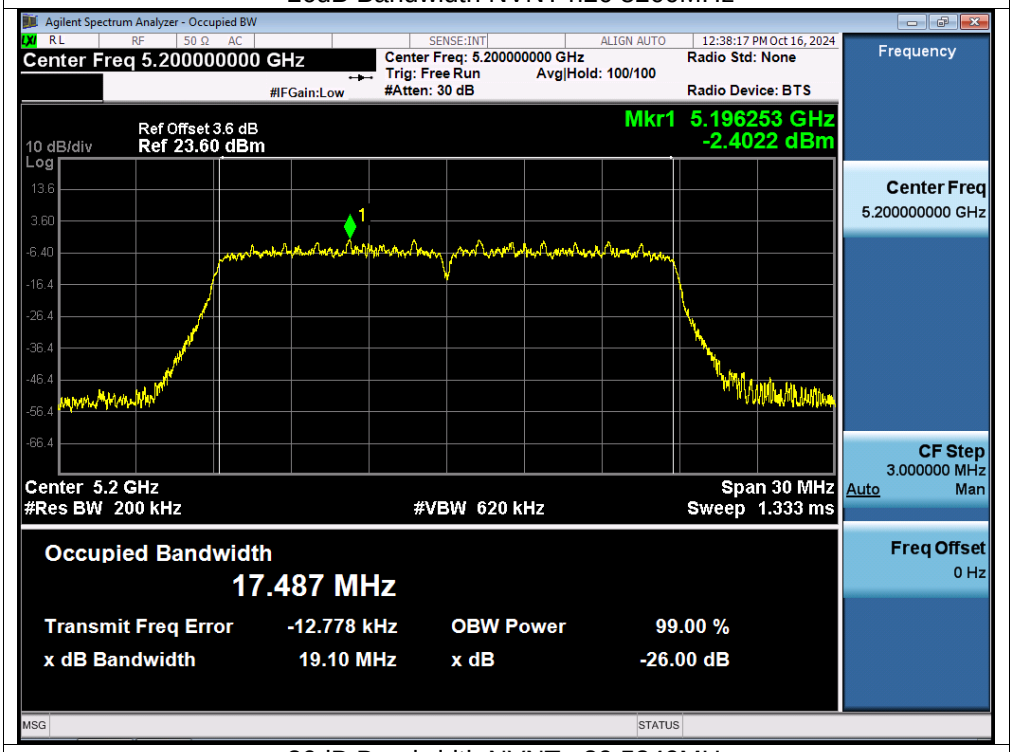
-26dB Bandwidth NVNT a 5240MHz



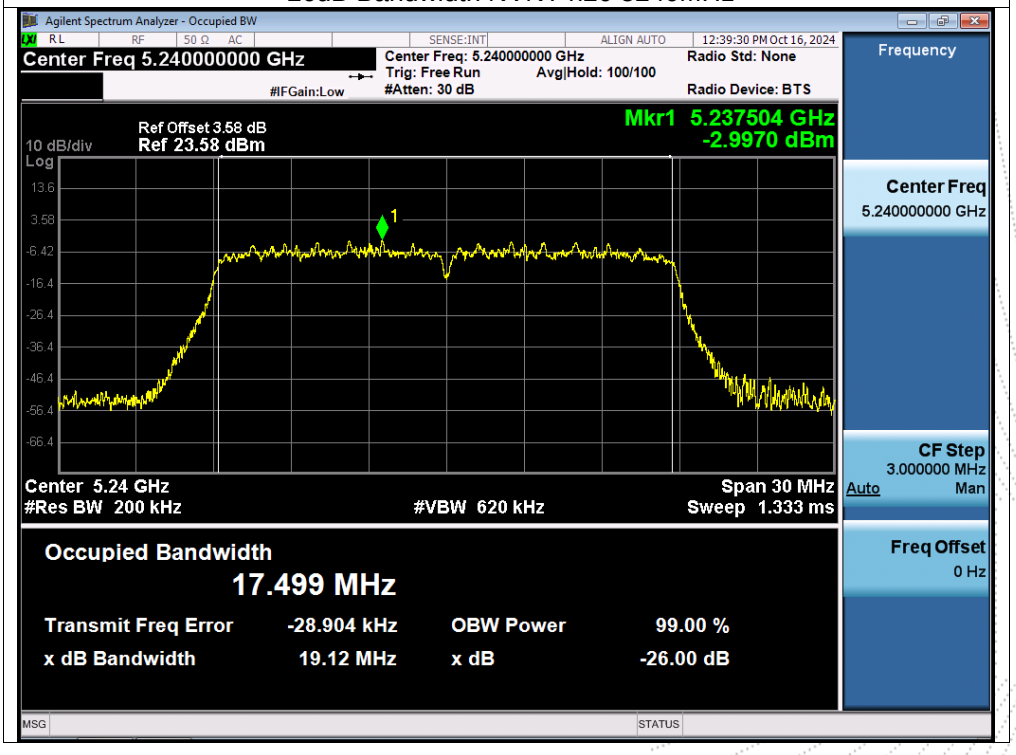
-26dB Bandwidth NVNT n20 5180MHz



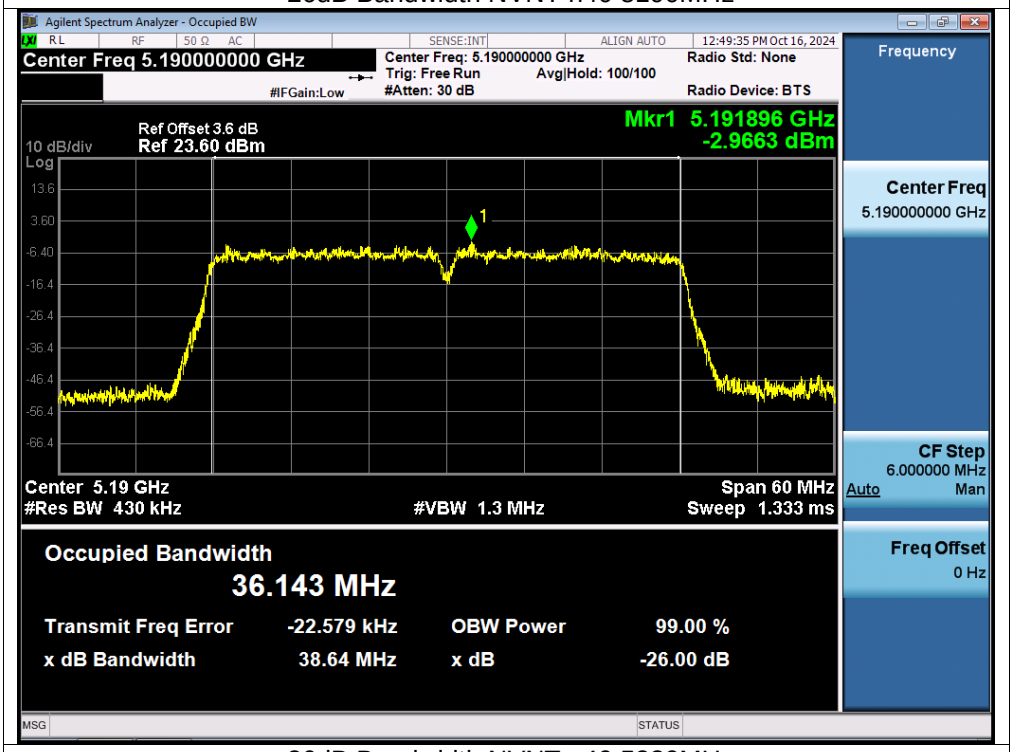
-26dB Bandwidth NVNT n20 5200MHz



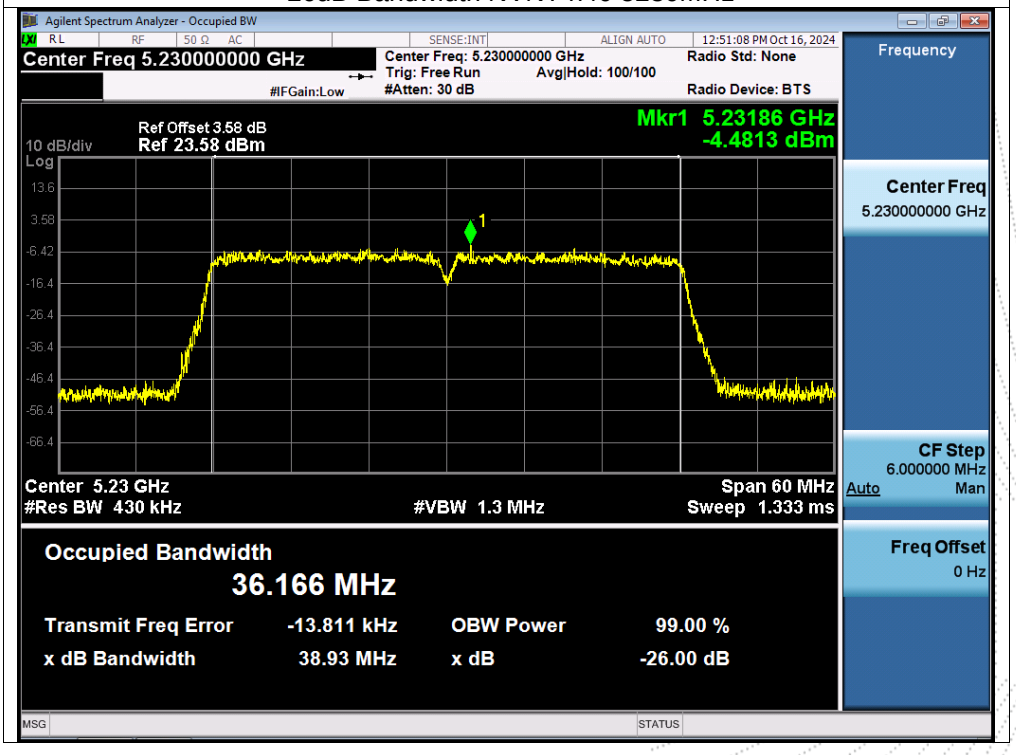
-26dB Bandwidth NVNT n20 5240MHz



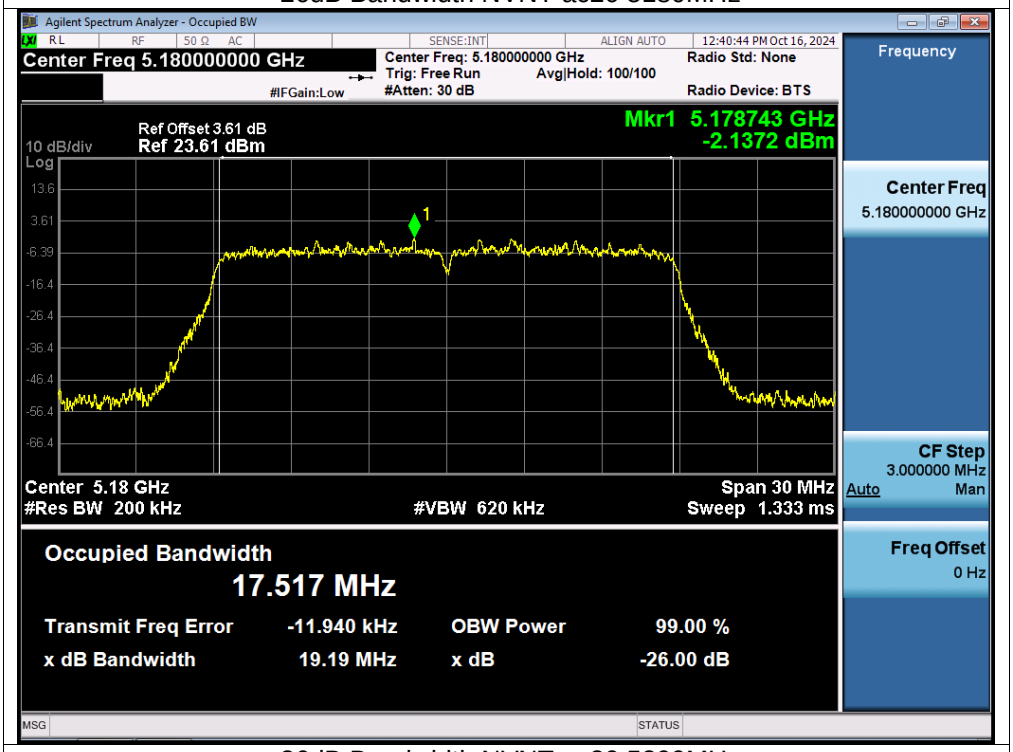
-26dB Bandwidth NVNT n40 5190MHz



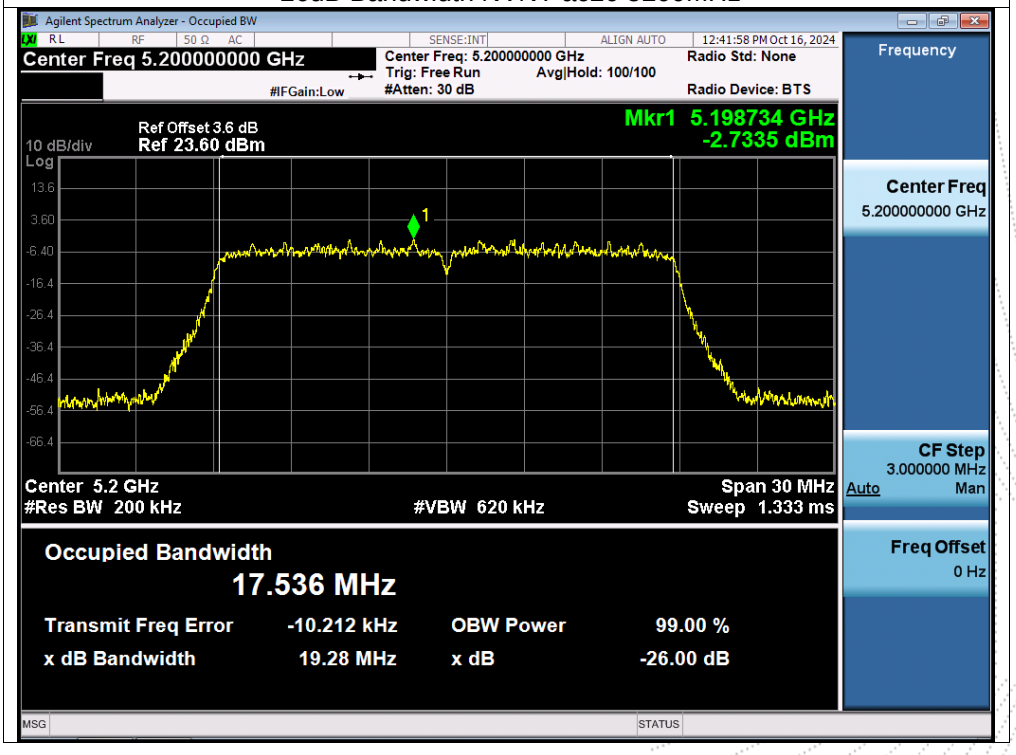
-26dB Bandwidth NVNT n40 5230MHz



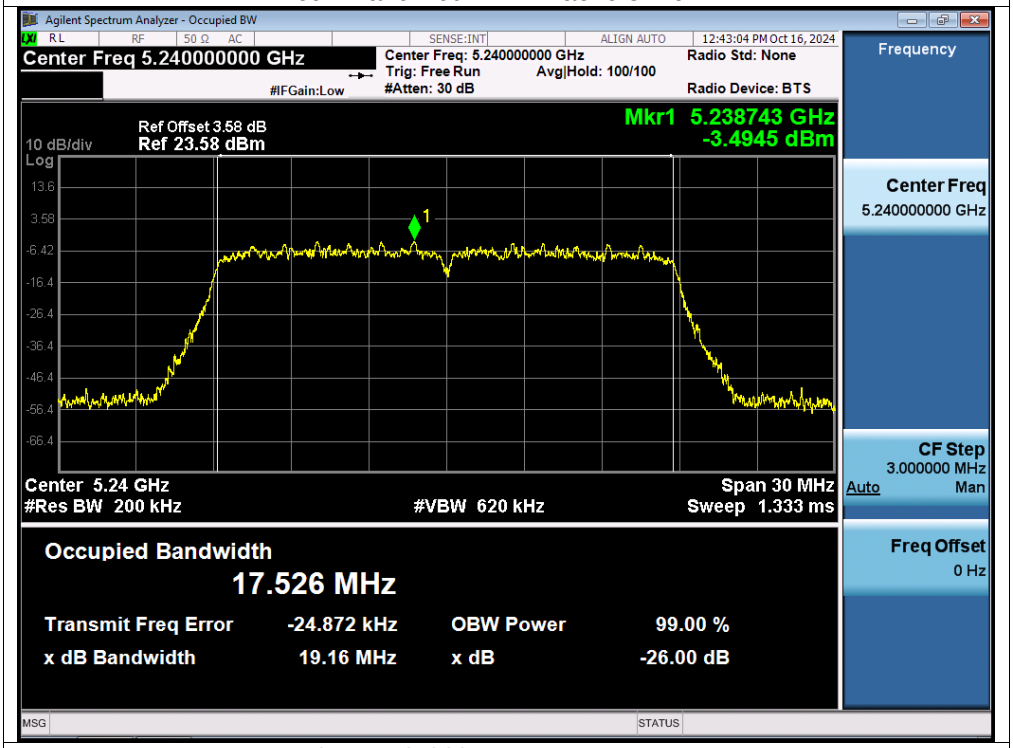
-26dB Bandwidth NVNT ac20 5180MHz



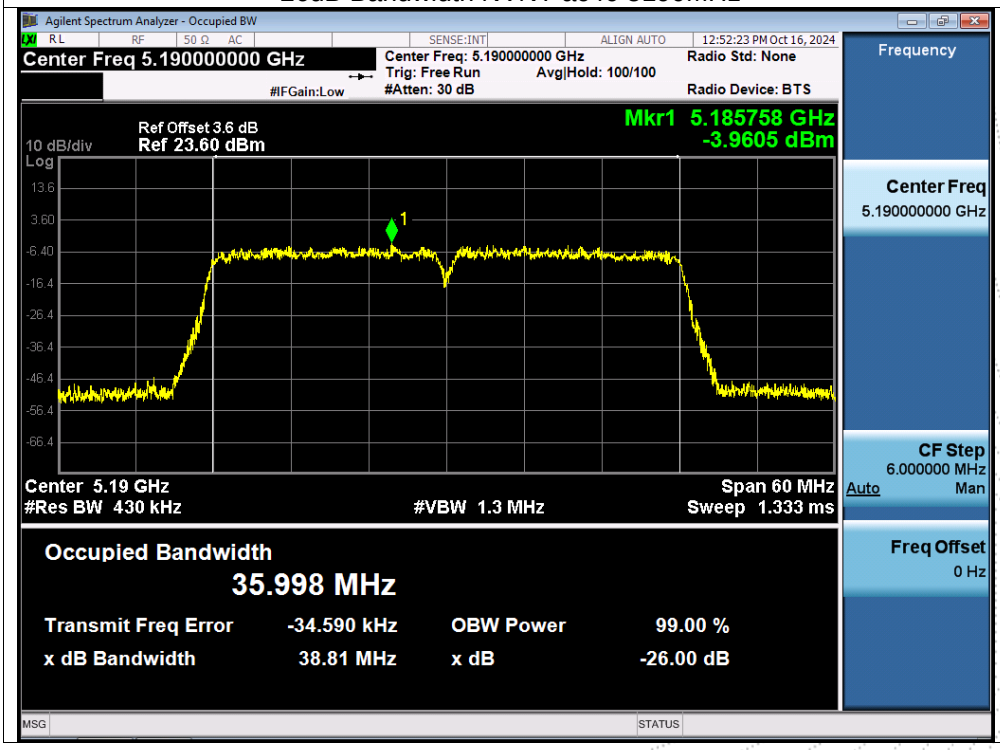
-26dB Bandwidth NVNT ac20 5200MHz



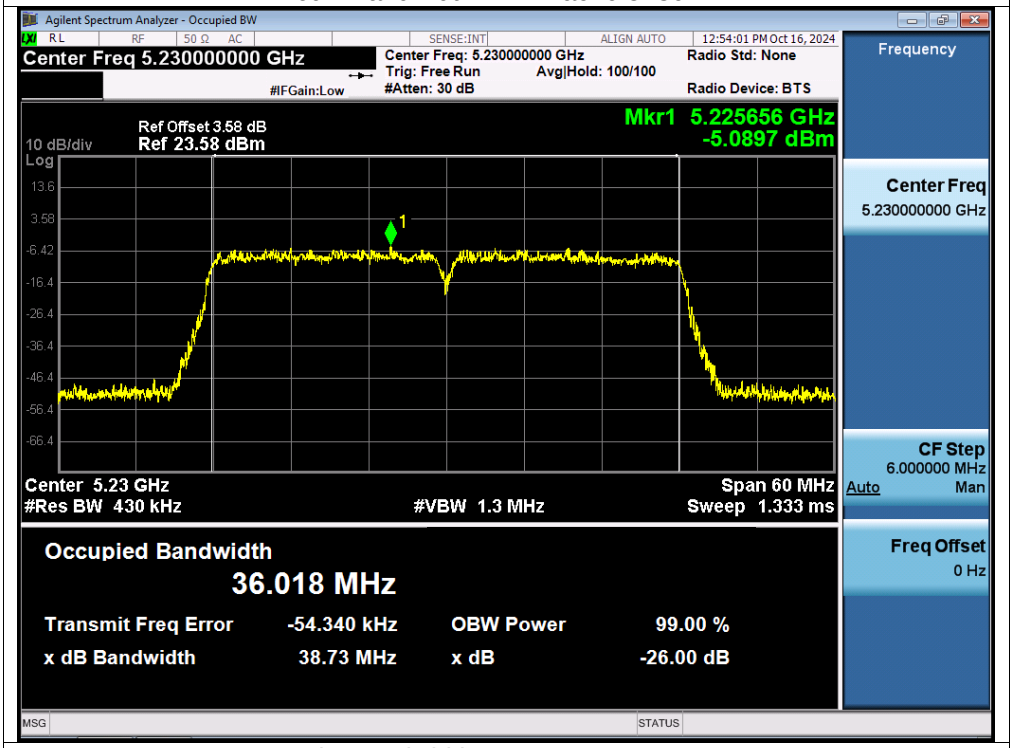
-26dB Bandwidth NVNT ac20 5240MHz



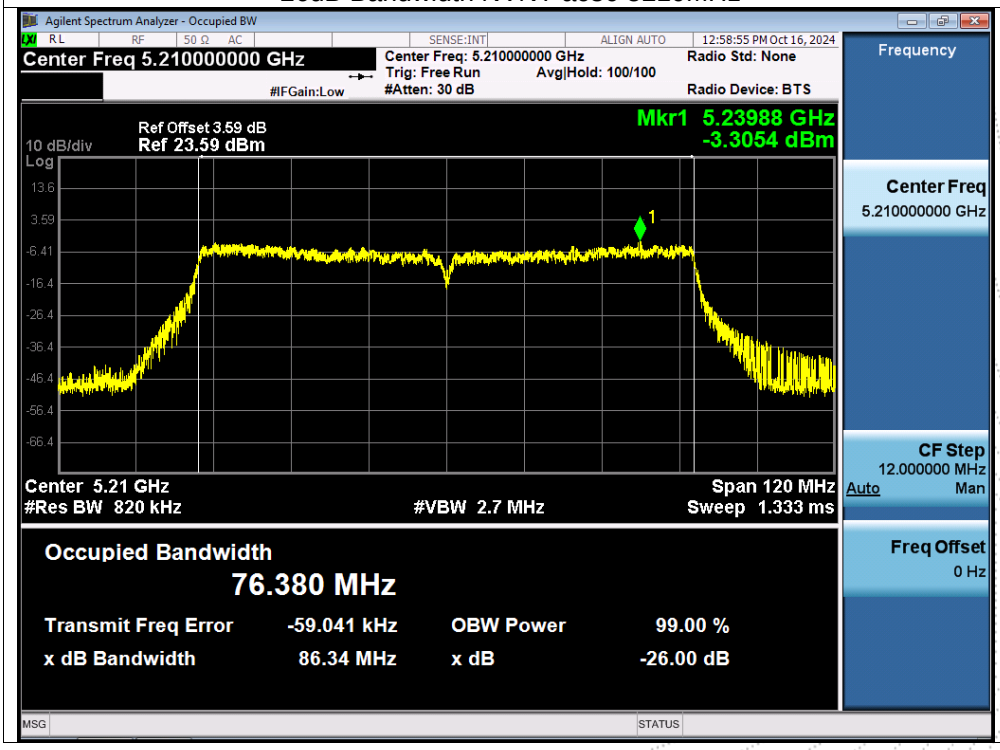
-26dB Bandwidth NVNT ac40 5190MHz



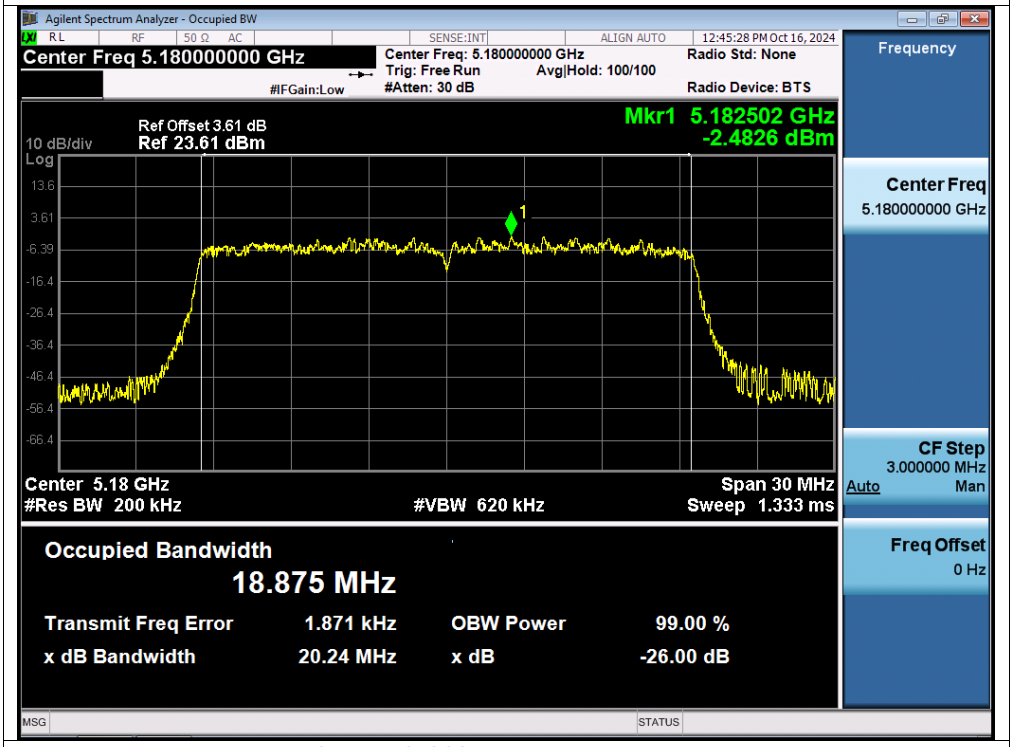
-26dB Bandwidth NVNT ac40 5230MHz



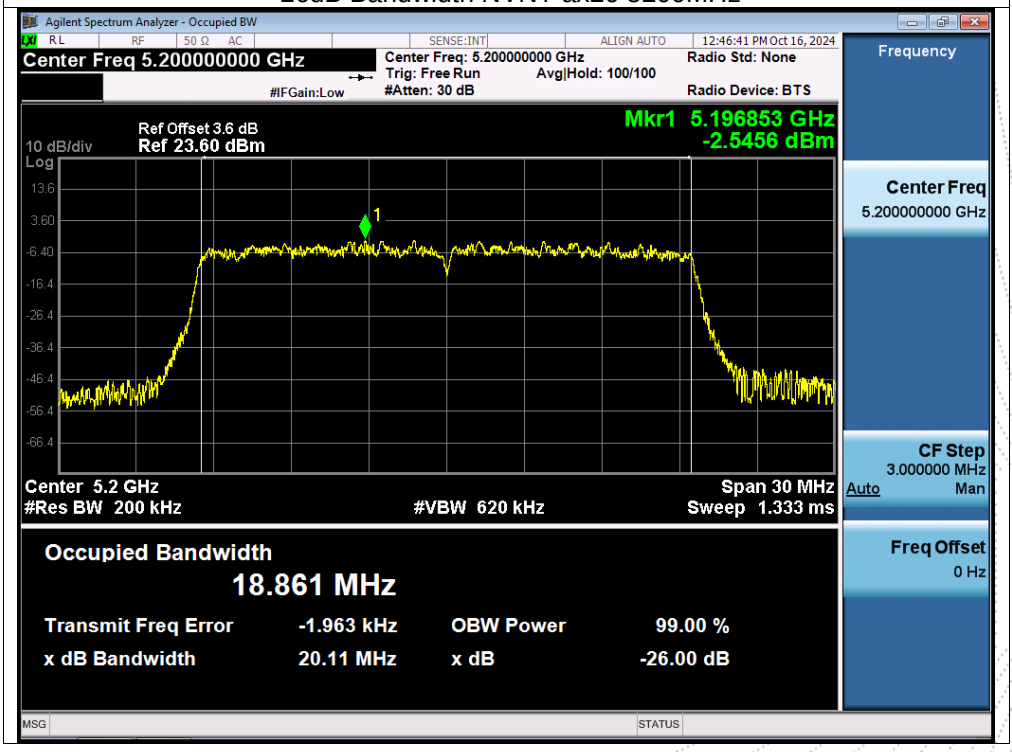
-26dB Bandwidth NVNT ac80 5210MHz



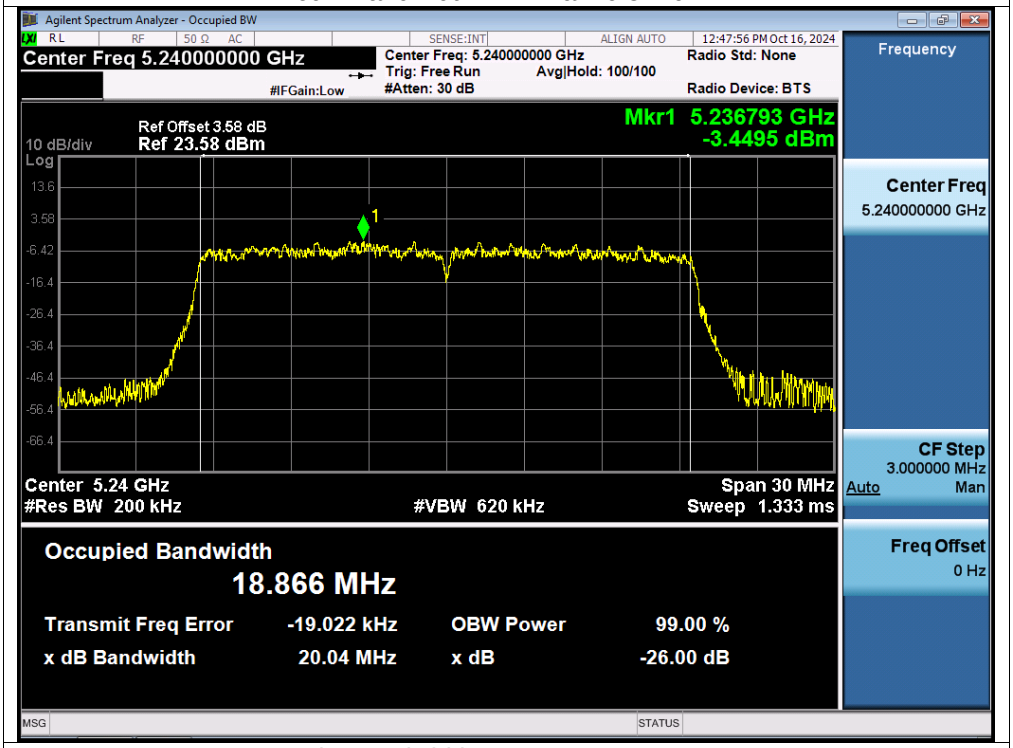
-26dB Bandwidth NVNT ax20 5180MHz



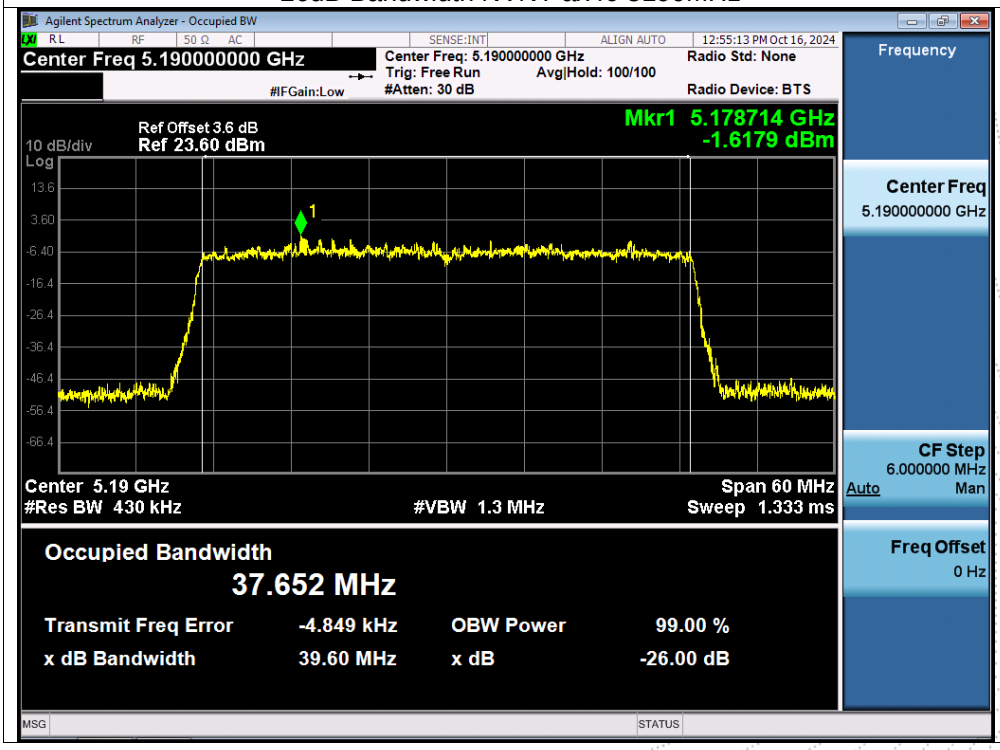
-26dB Bandwidth NVNT ax20 5200MHz



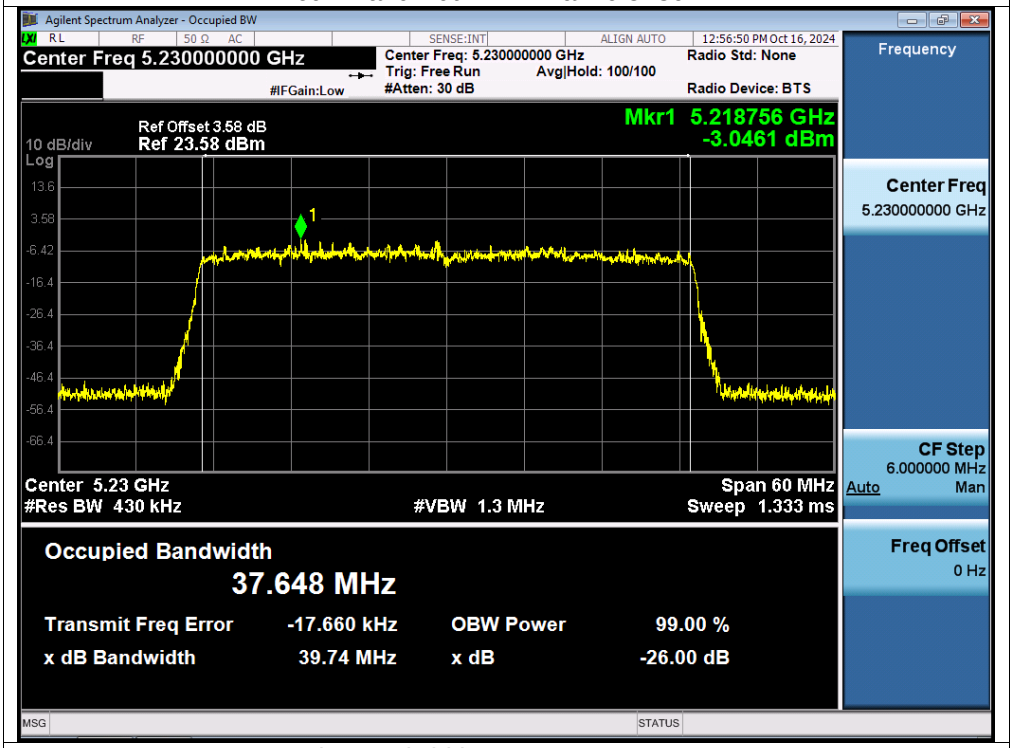
-26dB Bandwidth NVNT ax20 5240MHz



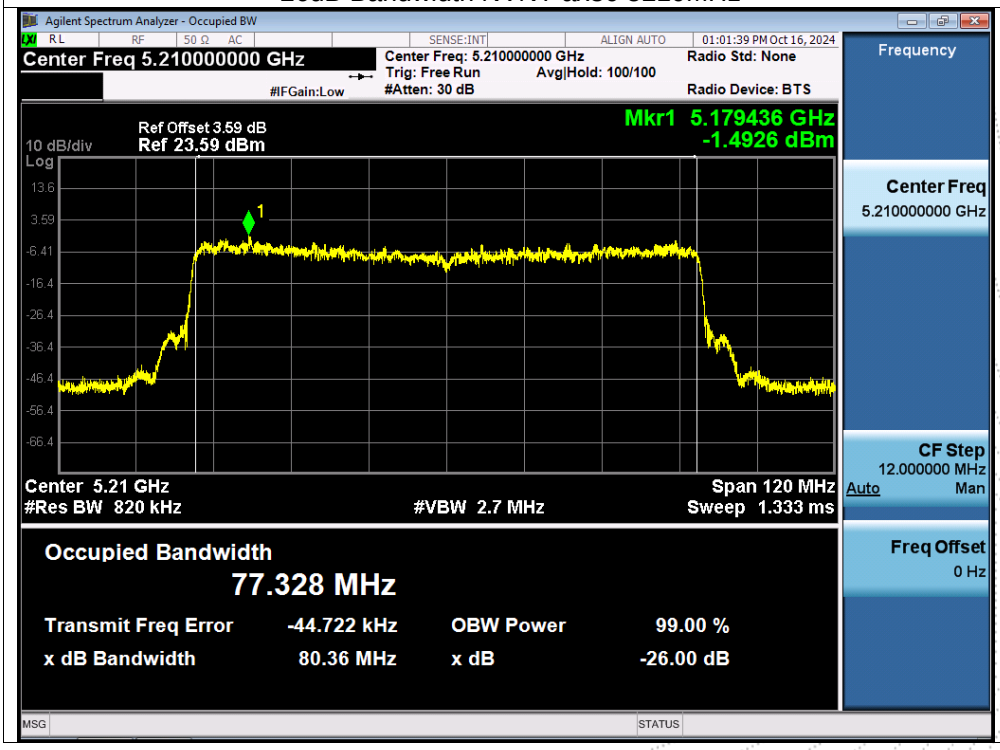
-26dB Bandwidth NVNT ax40 5190MHz



-26dB Bandwidth NVNT ax40 5230MHz



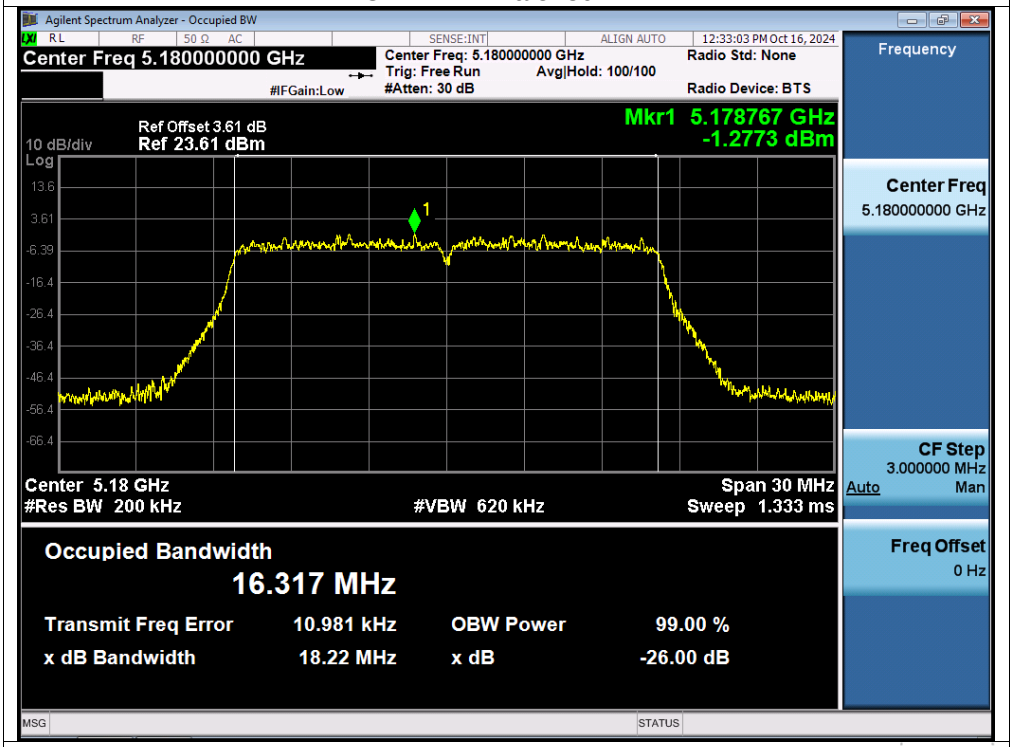
-26dB Bandwidth NVNT ax80 5210MHz



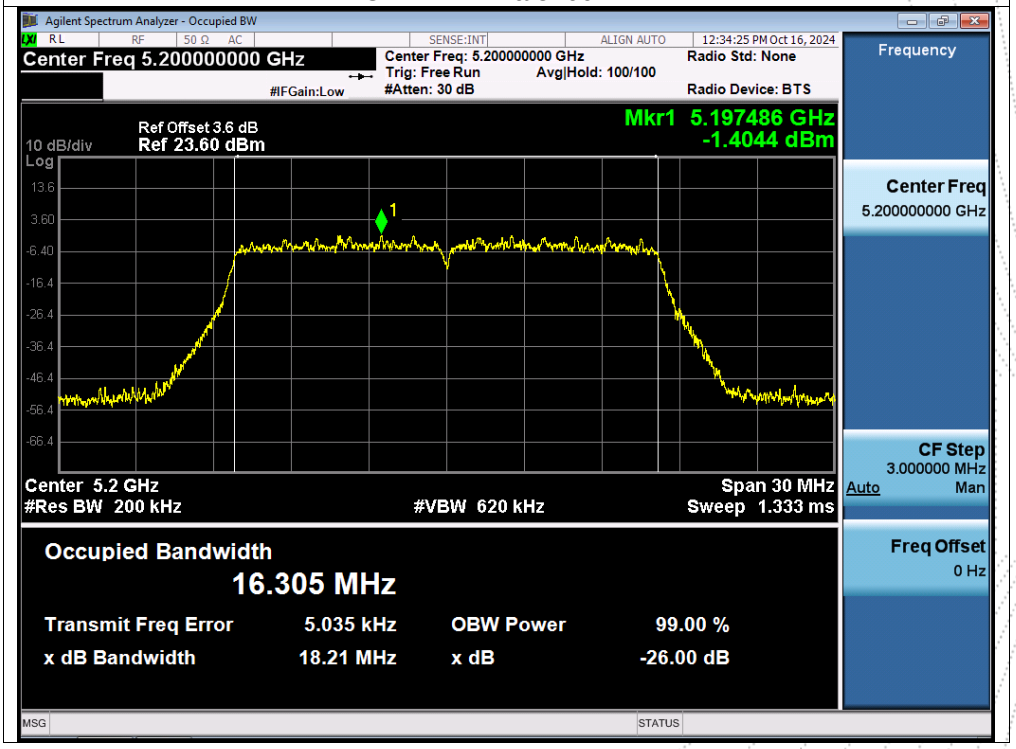
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

Test Graphs

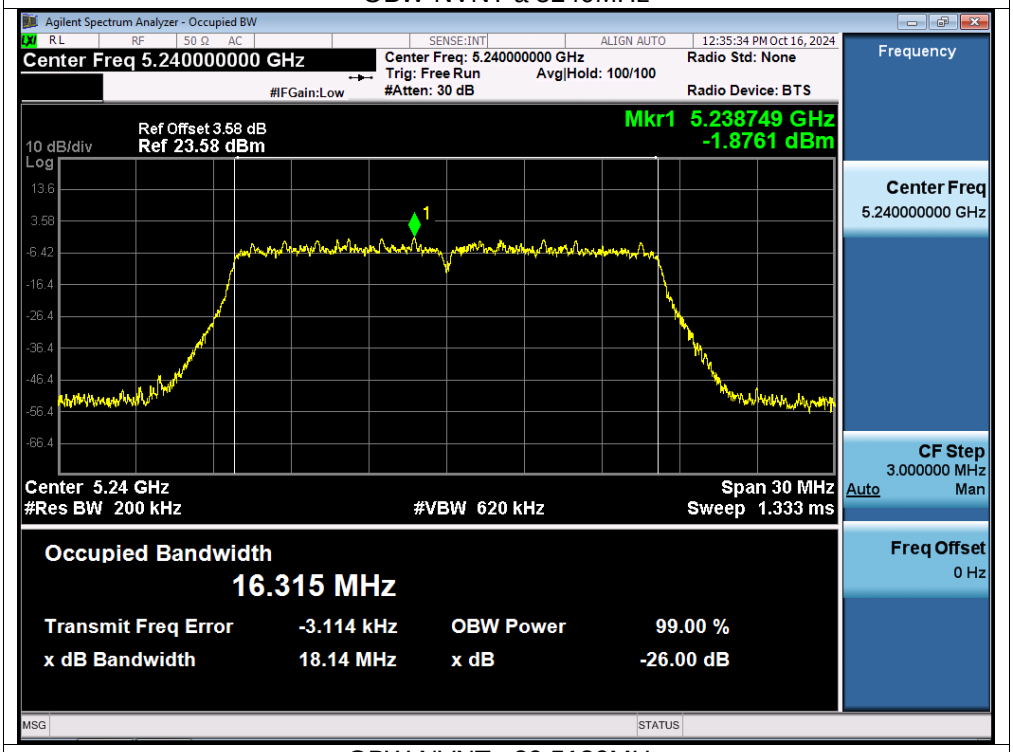
OBW NVNT a 5180MHz



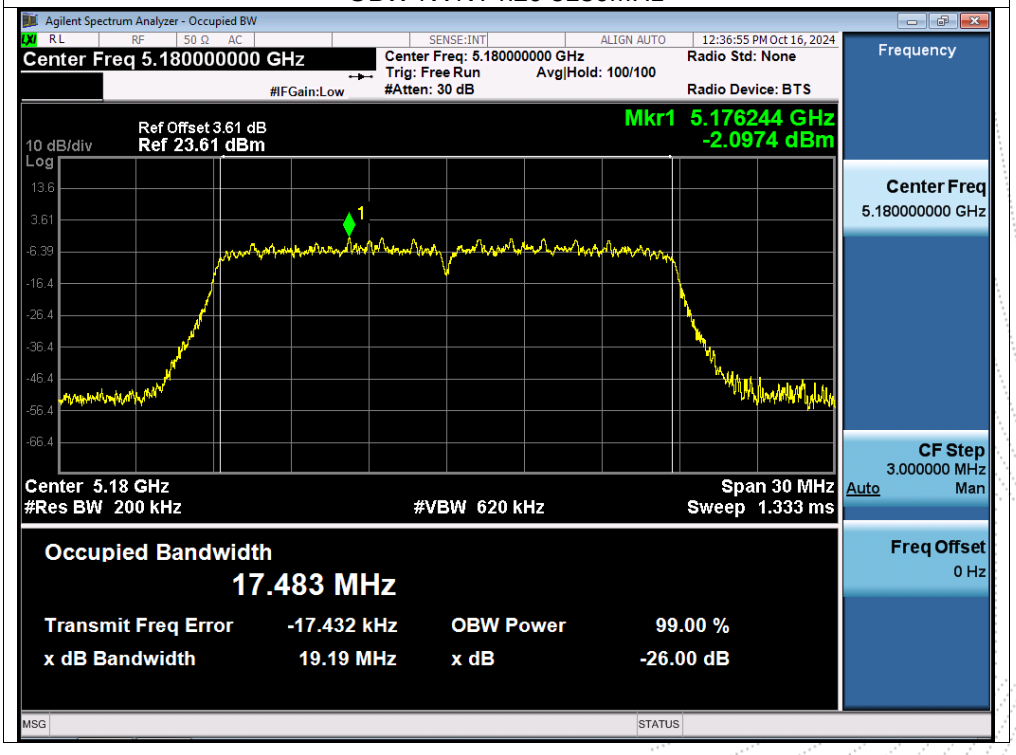
OBW NVNT a 5200MHz



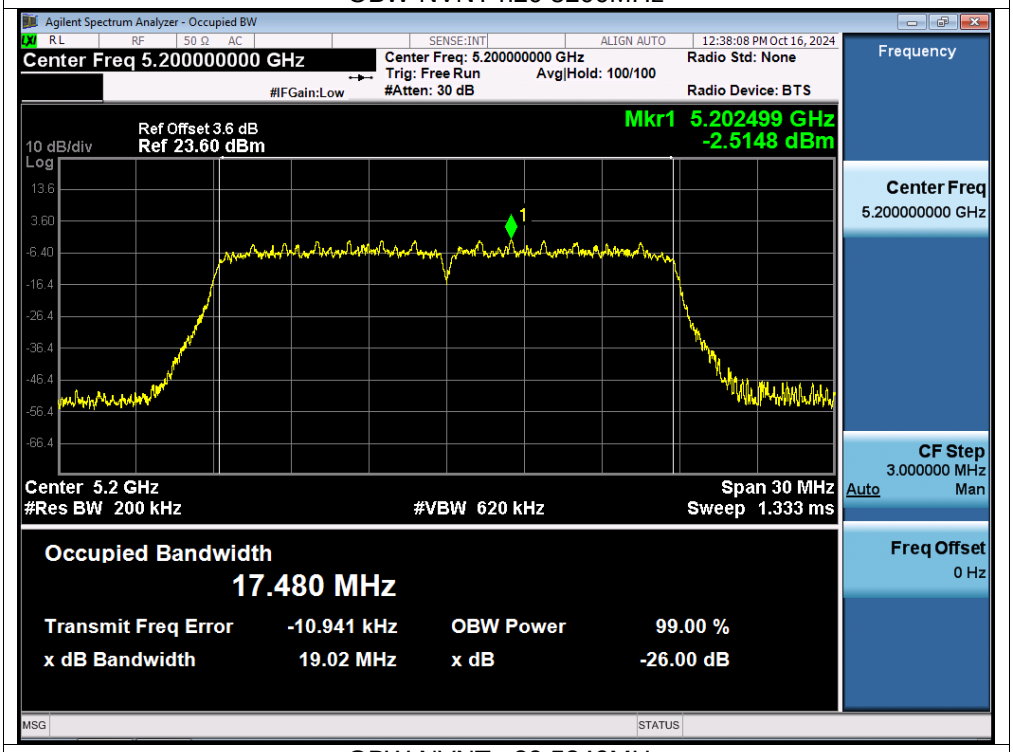
OBW NVNT a 5240MHz



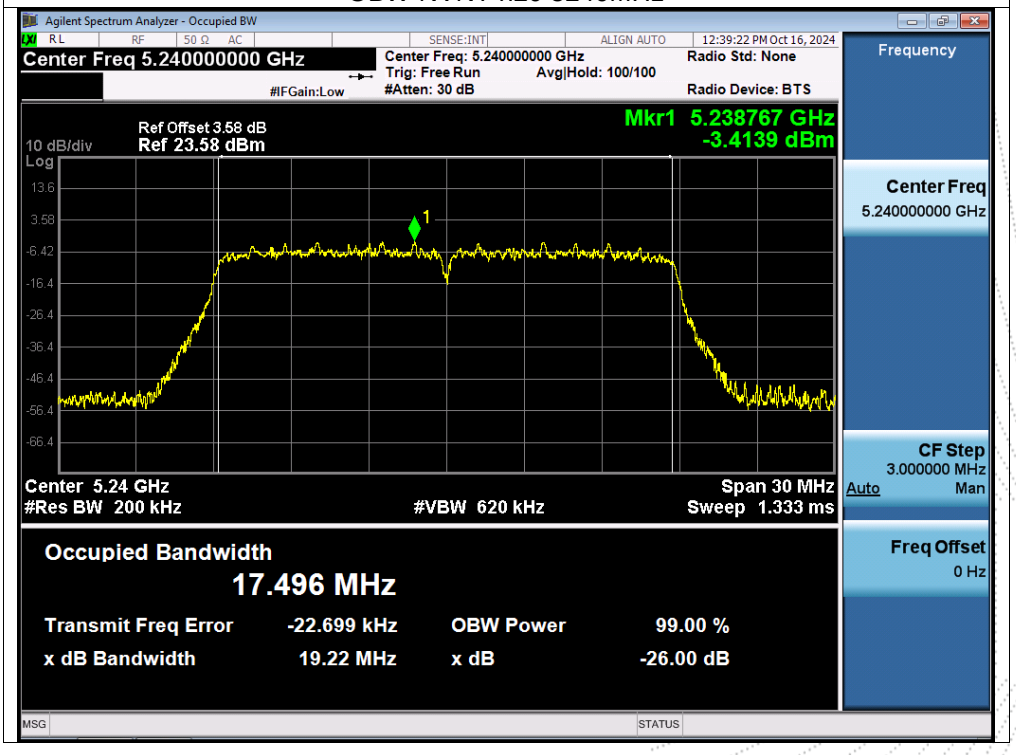
OBW NVNT n20 5180MHz



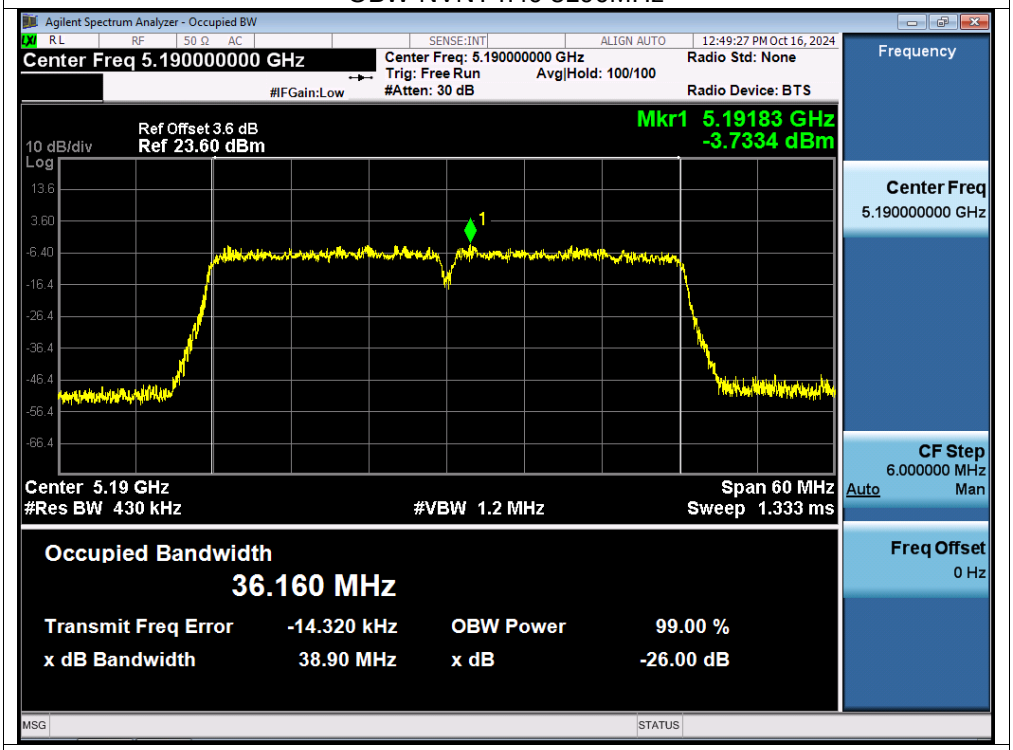
OBW NVNT n20 5200MHz



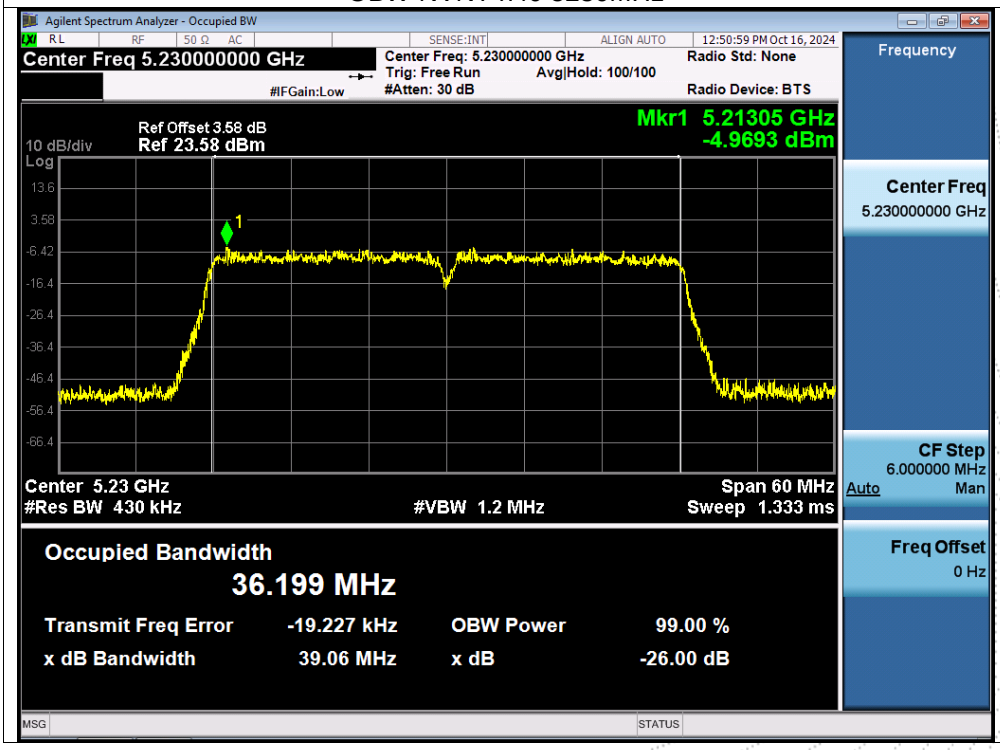
OBW NVNT n20 5240MHz



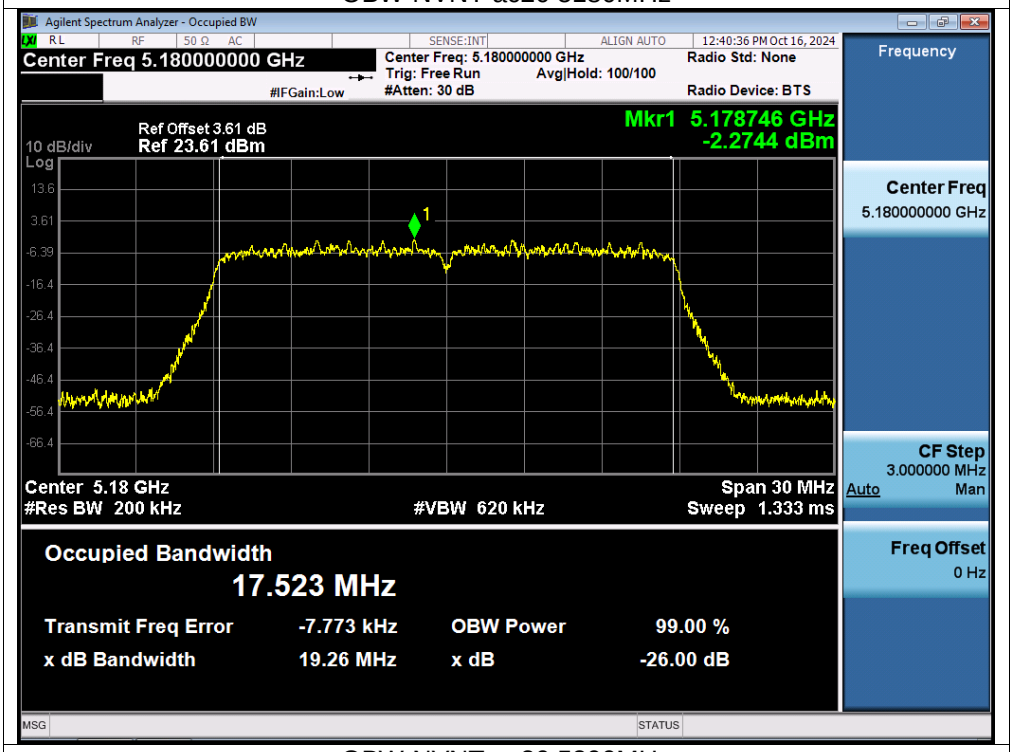
OBW NVNT n40 5190MHz



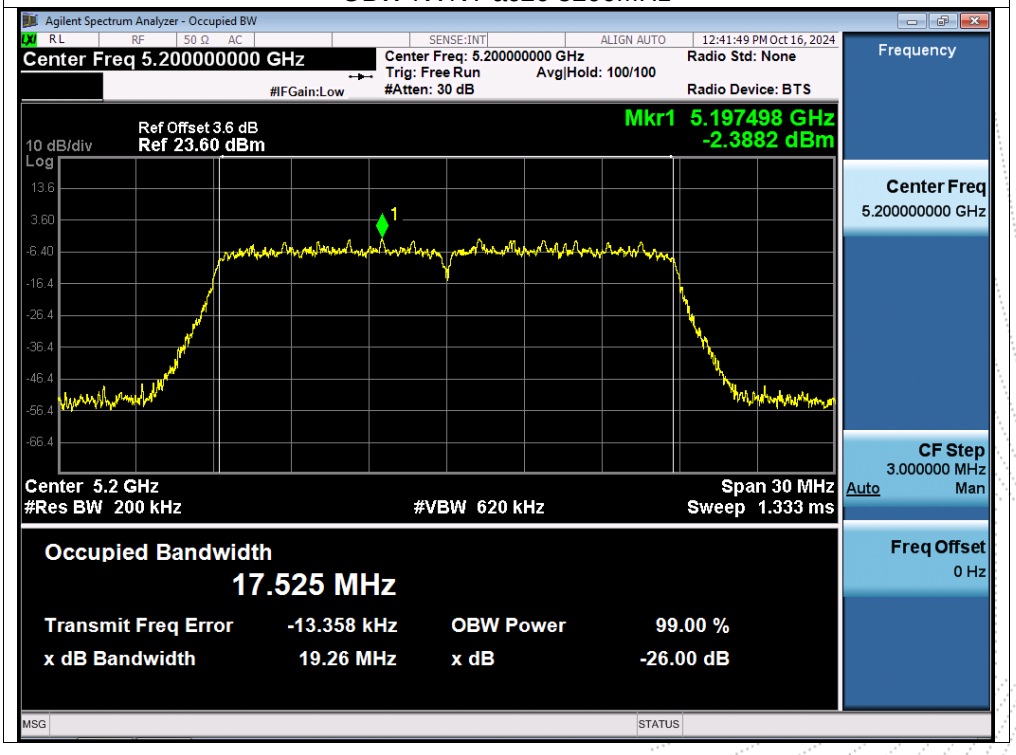
OBW NVNT n40 5230MHz



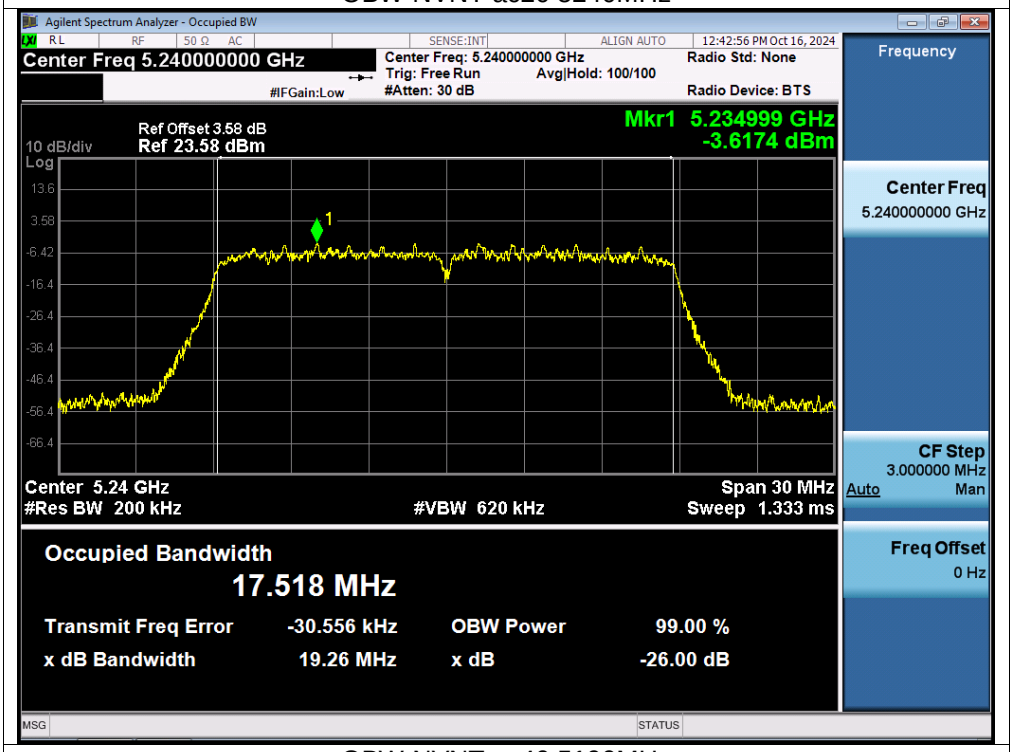
OBW NVNT ac20 5180MHz



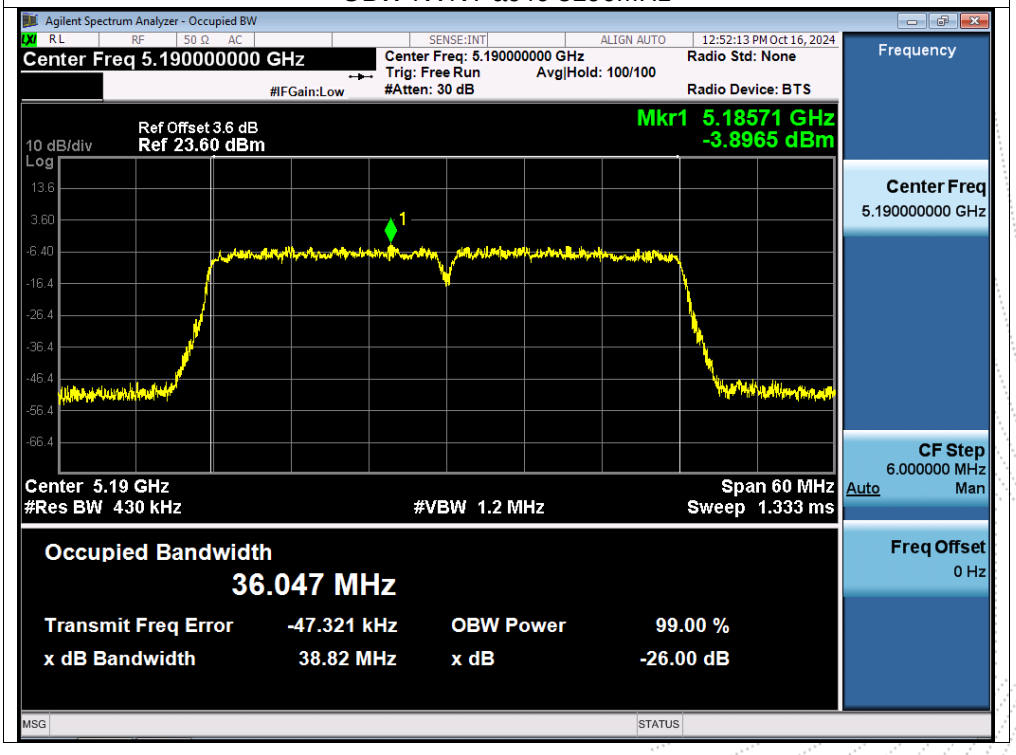
OBW NVNT ac20 5200MHz



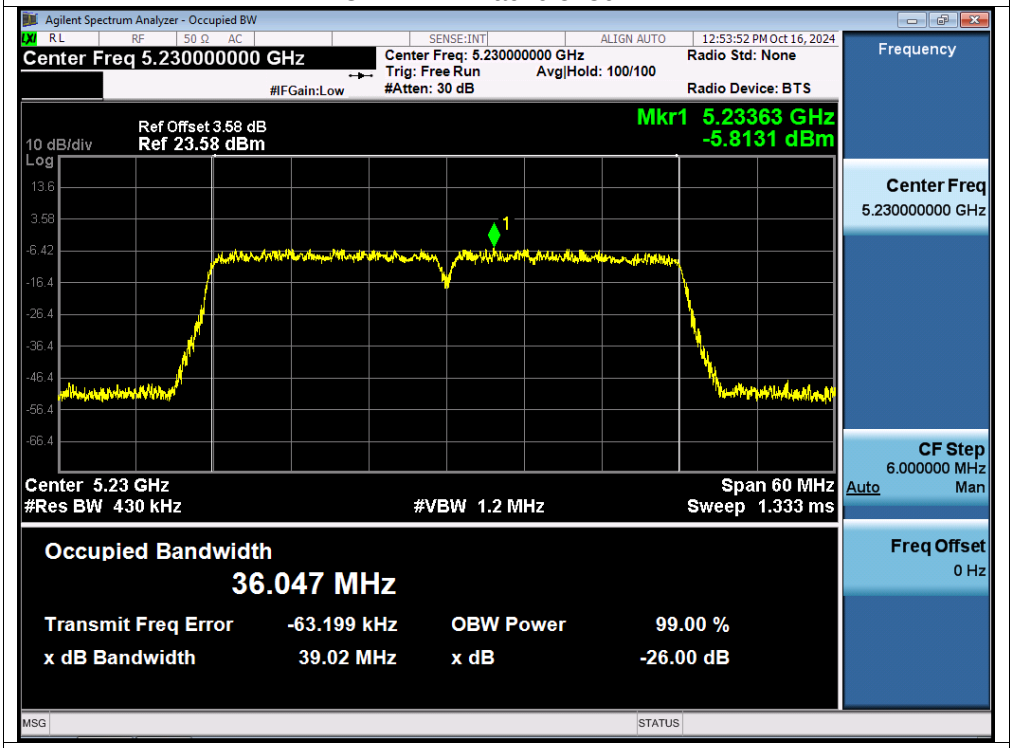
OBW NVNT ac20 5240MHz



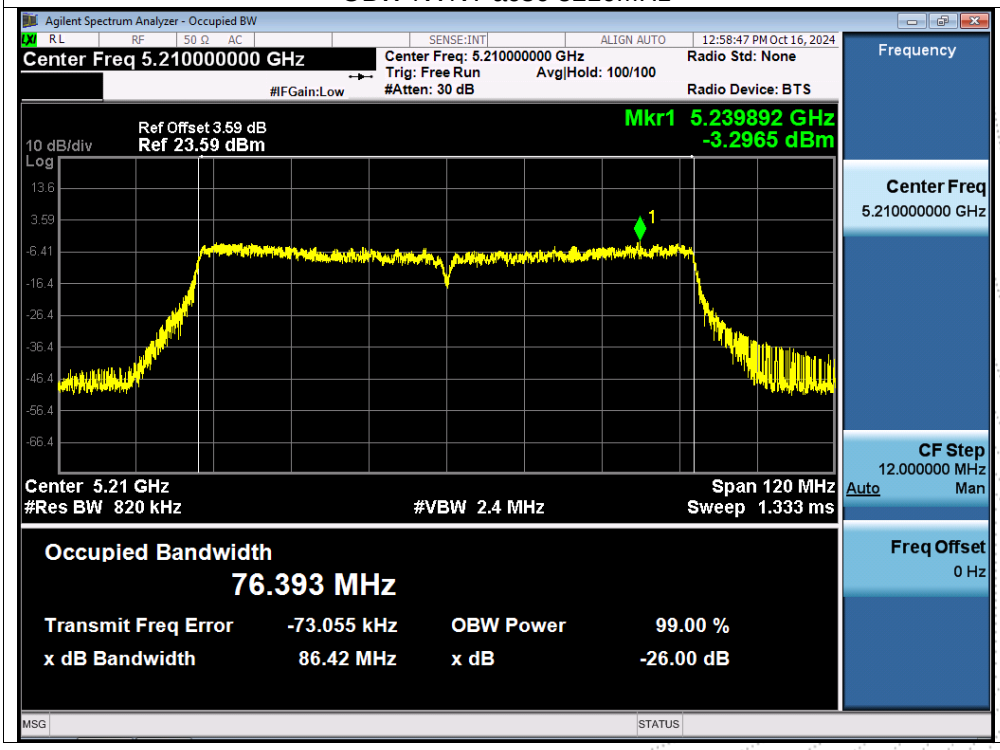
OBW NVNT ac40 5190MHz



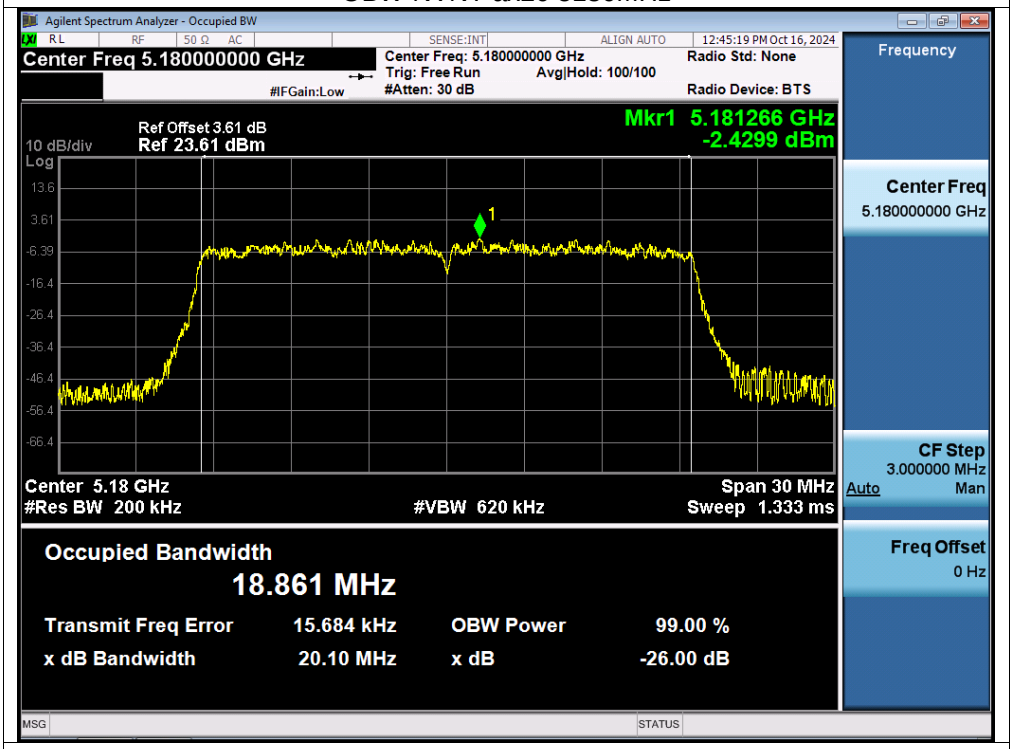
OBW NVNT ac40 5230MHz



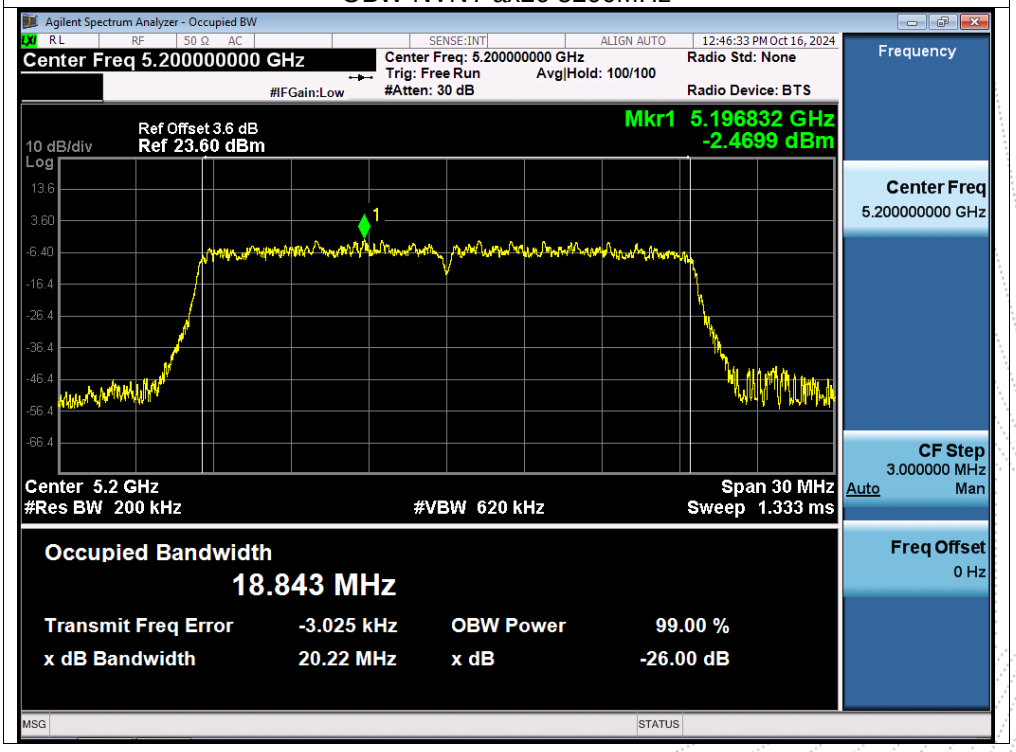
OBW NVNT ac80 5210MHz



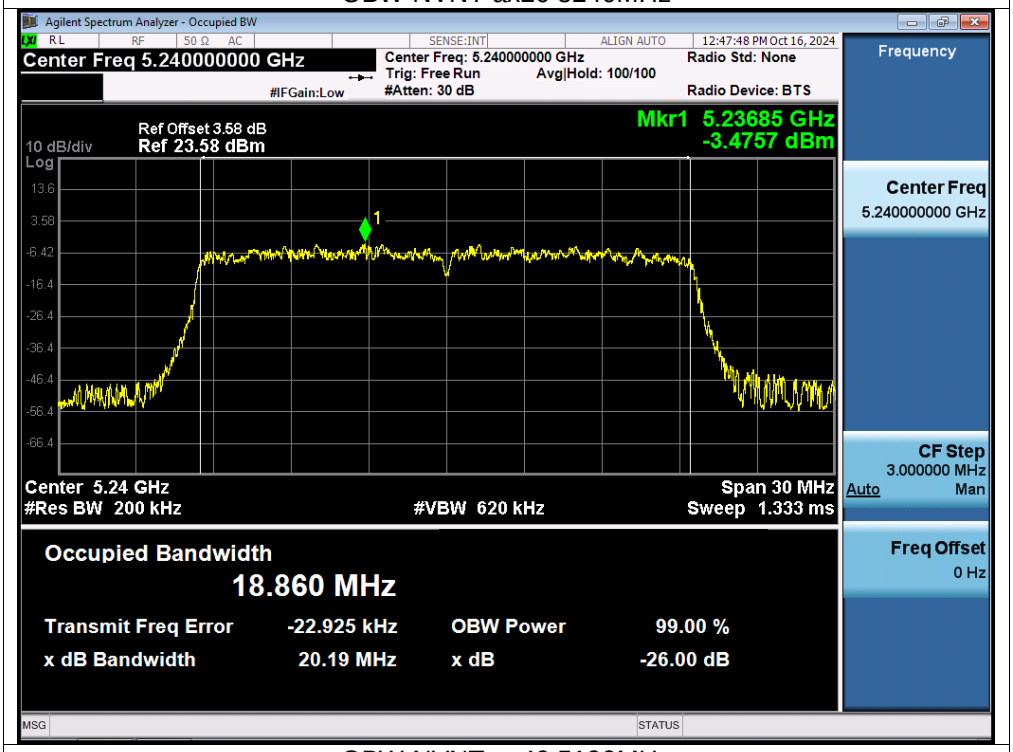
OBW NVNT ax20 5180MHz



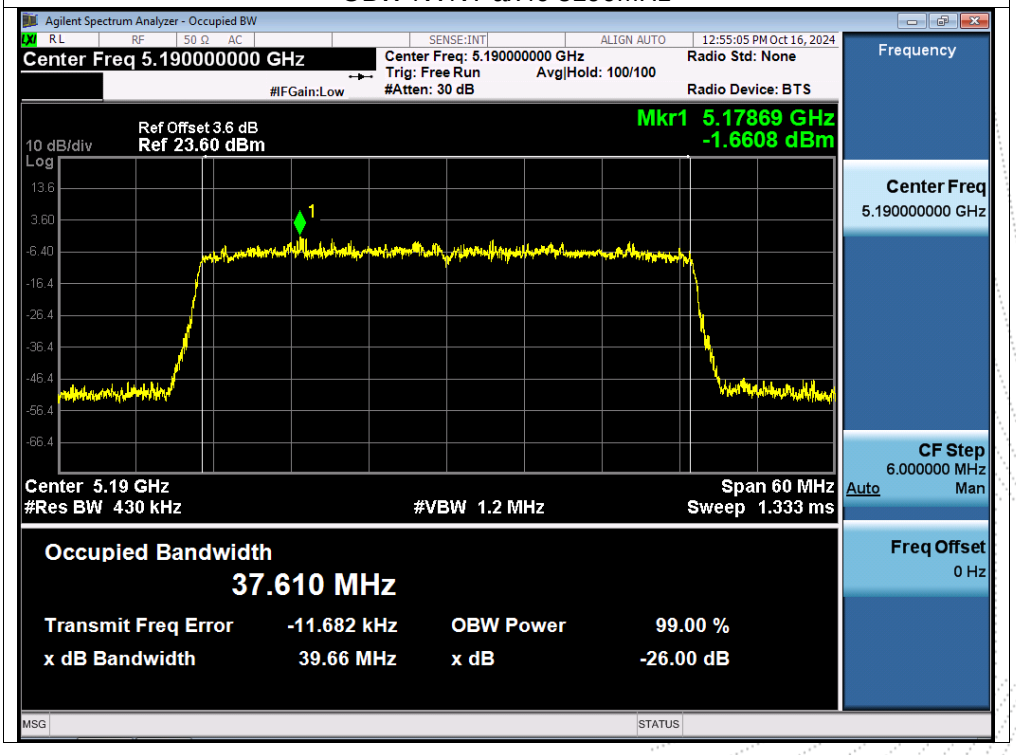
OBW NVNT ax20 5200MHz



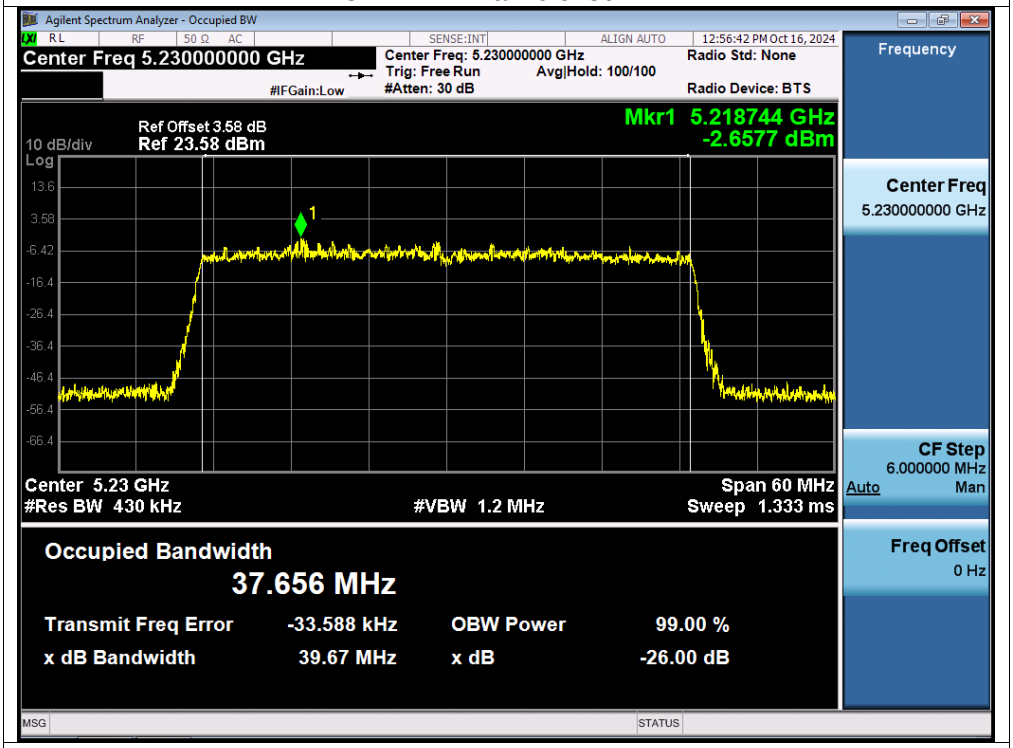
OBW NVNT ax20 5240MHz



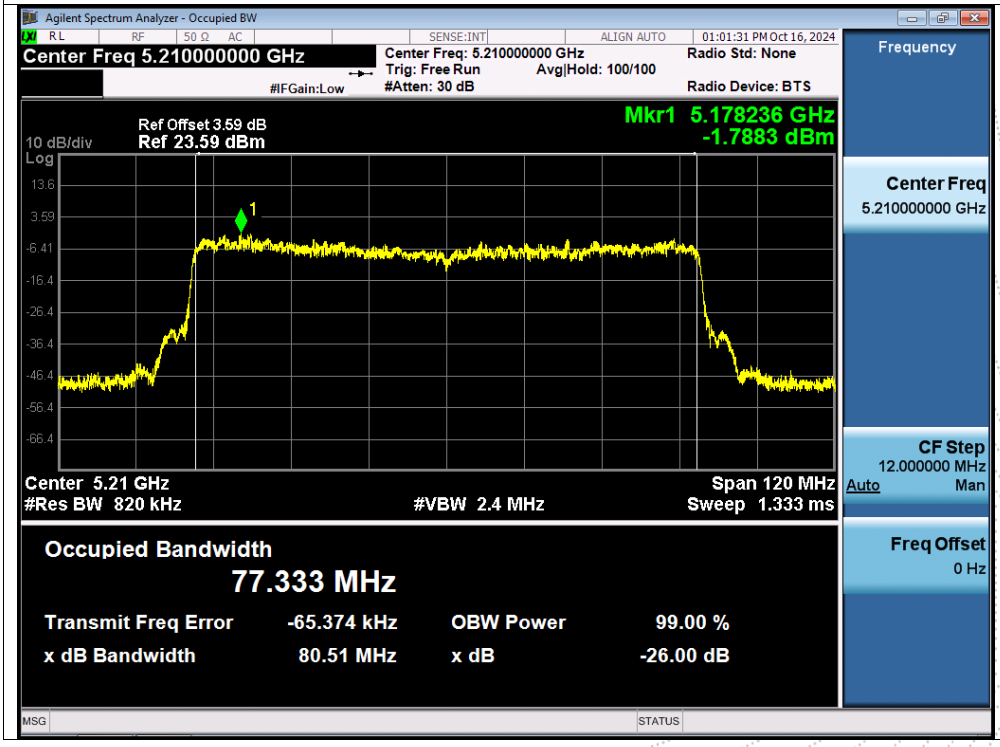
OBW NVNT ax40 5190MHz



OBW NVNT ax40 5230MHz



OBW NVNT ax80 5210MHz



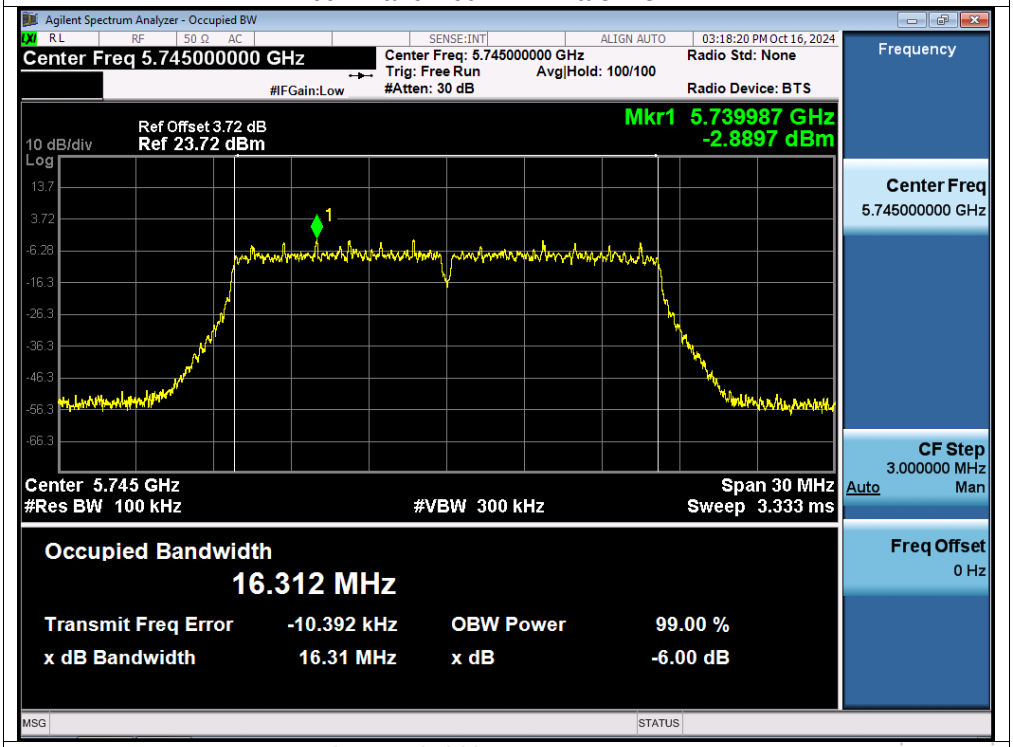
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60HZ
Test Mode:	(5745-5825MHz)		

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)		99% OBW (MHz)		Limit -6 dB Bandwidth (MHz)	Verdict
			Ant A	Ant B	Ant A	Ant B		
NVNT	a	5745	16.309	16.315	16.331	16.326	0.5	Pass
NVNT	a	5785	16.319	16.302	16.335	16.319	0.5	Pass
NVNT	a	5825	16.068	15.94	16.3	16.296	0.5	Pass
NVNT	n20	5745	16.847	16.946	17.51	17.51	0.5	Pass
NVNT	n20	5785	16.857	17.226	17.508	17.508	0.5	Pass
NVNT	n20	5825	16.953	16.558	17.503	17.51	0.5	Pass
NVNT	n40	5755	35.506	35.526	36.147	36.122	0.5	Pass
NVNT	n40	5795	35.906	35.484	36.132	36.216	0.5	Pass
NVNT	ac20	5745	17.003	17.007	17.535	17.518	0.5	Pass
NVNT	ac20	5785	17.548	17.297	17.543	17.521	0.5	Pass
NVNT	ac20	5825	17.153	17.127	17.53	17.52	0.5	Pass
NVNT	ac40	5755	35.251	35.336	36.052	35.986	0.5	Pass
NVNT	ac40	5795	35.368	35.356	36.048	36.022	0.5	Pass
NVNT	ac80	5775	75.434	75.432	75.662	75.633	0.5	Pass
NVNT	ax20	5745	18.074	18.15	18.869	18.837	0.5	Pass
NVNT	ax20	5785	18.343	18.33	18.862	18.868	0.5	Pass
NVNT	ax20	5825	18.051	17.467	18.851	18.882	0.5	Pass
NVNT	ax40	5755	37.647	37.628	37.658	37.649	0.5	Pass
NVNT	ax40	5795	37.645	37.632	37.654	37.662	0.5	Pass
NVNT	ax80	5775	76.337	**76.343**	**76.702**	76.696	0.5	Pass

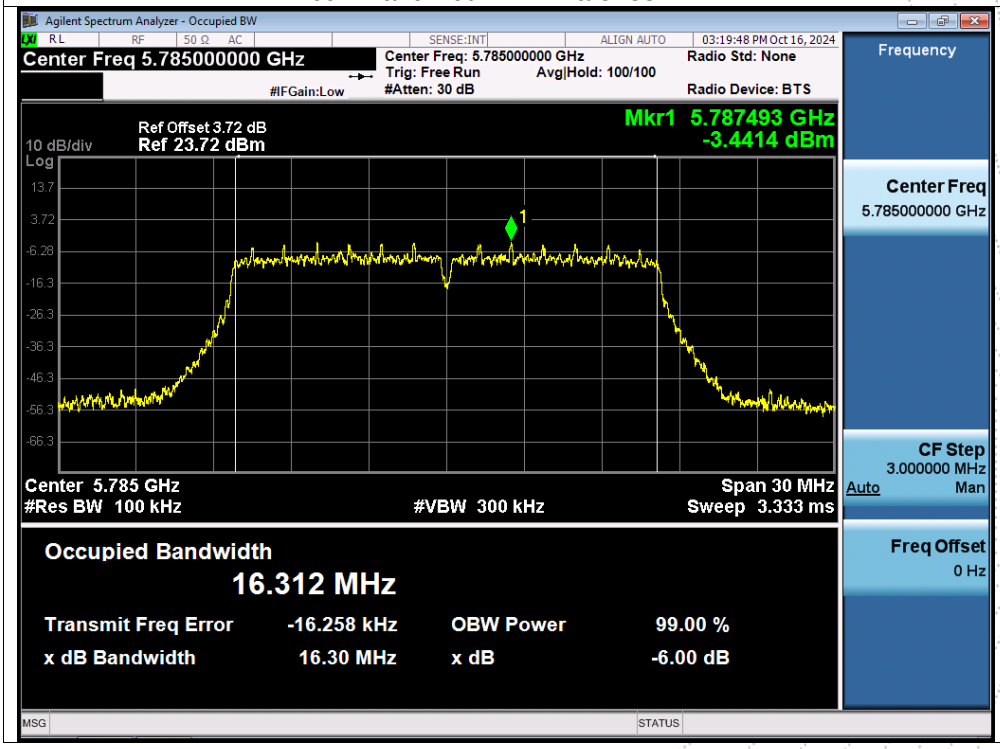
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

Test Graphs

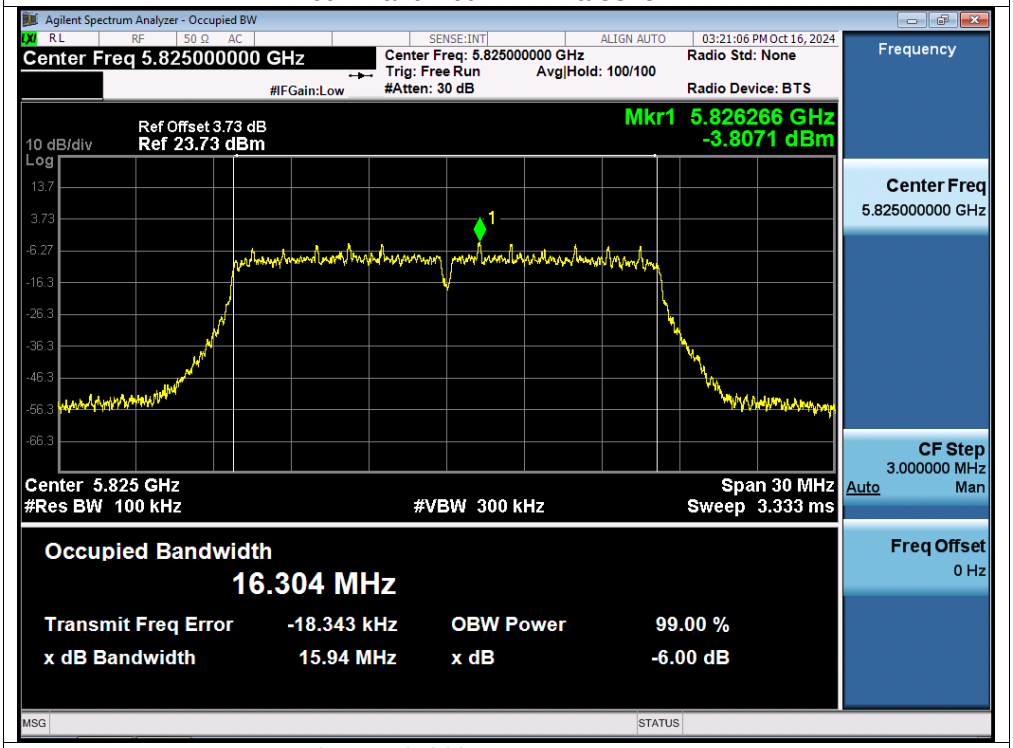
-6dB Bandwidth NVNT a 5745MHz



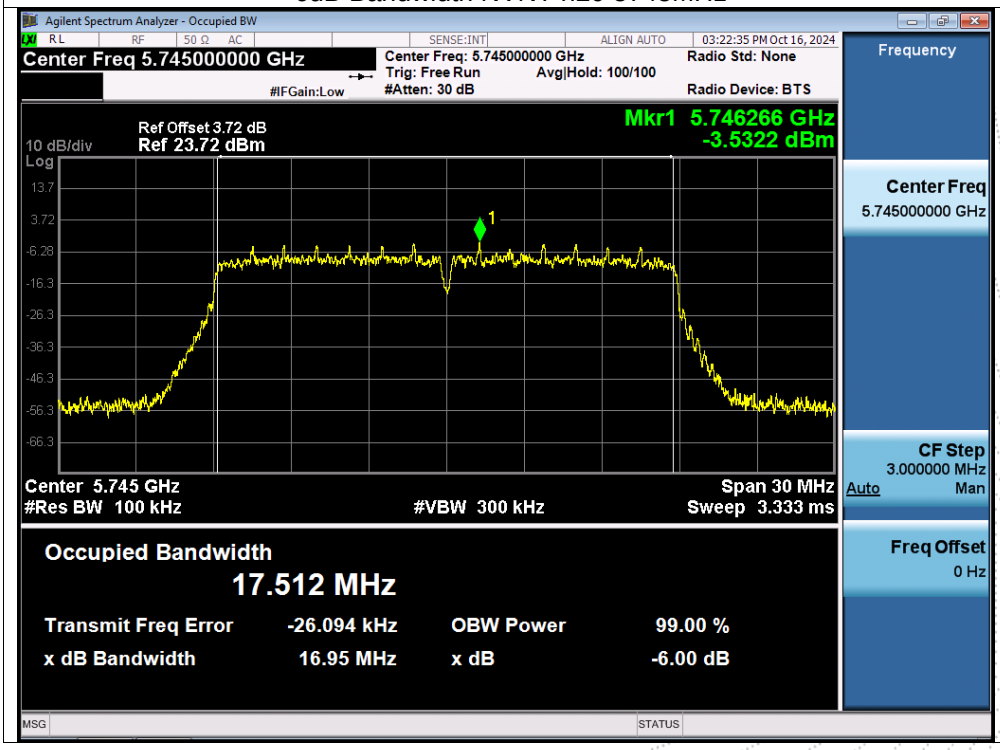
-6dB Bandwidth NVNT a 5785MHz



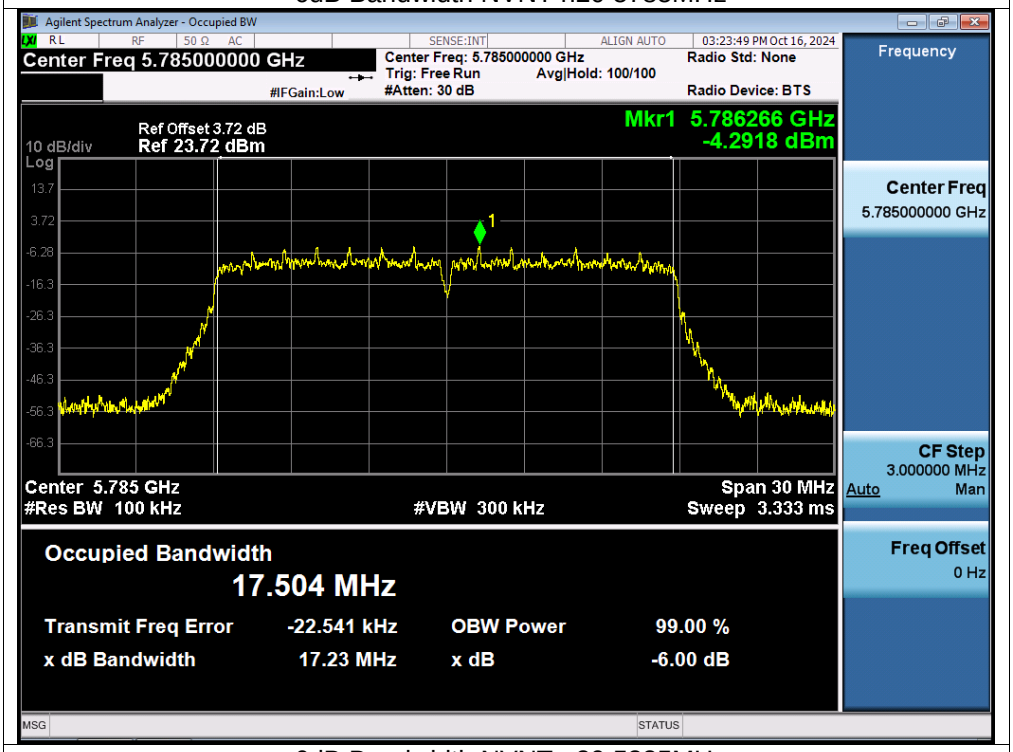
-6dB Bandwidth NVNT a 5825MHz



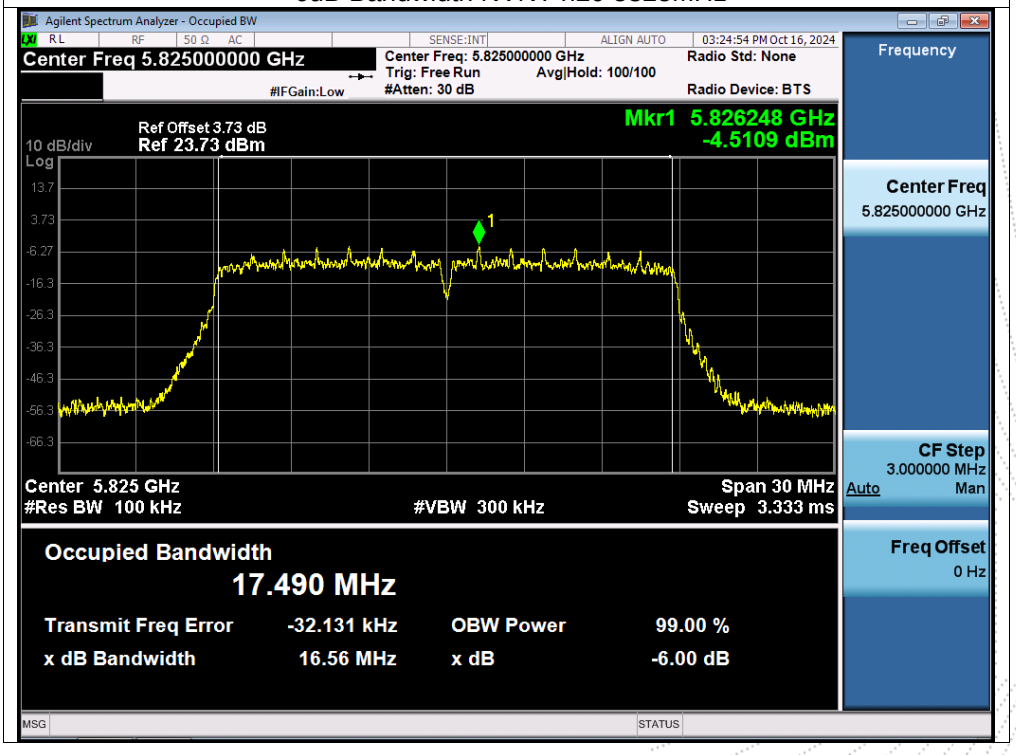
-6dB Bandwidth NVNT n20 5745MHz



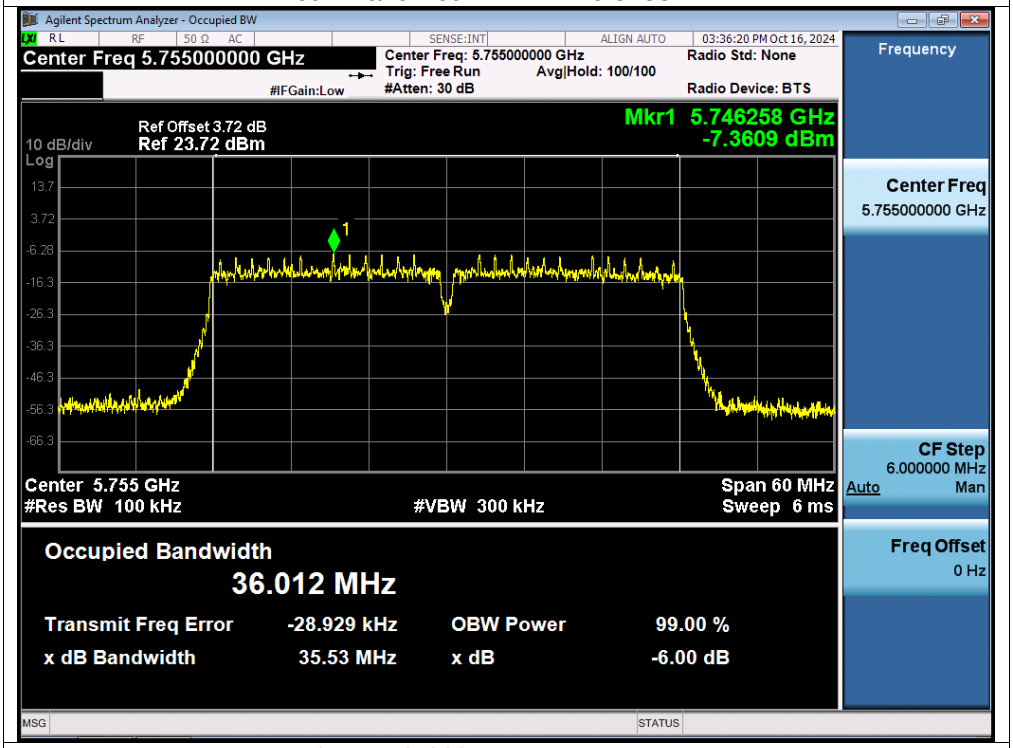
-6dB Bandwidth NVNT n20 5785MHz



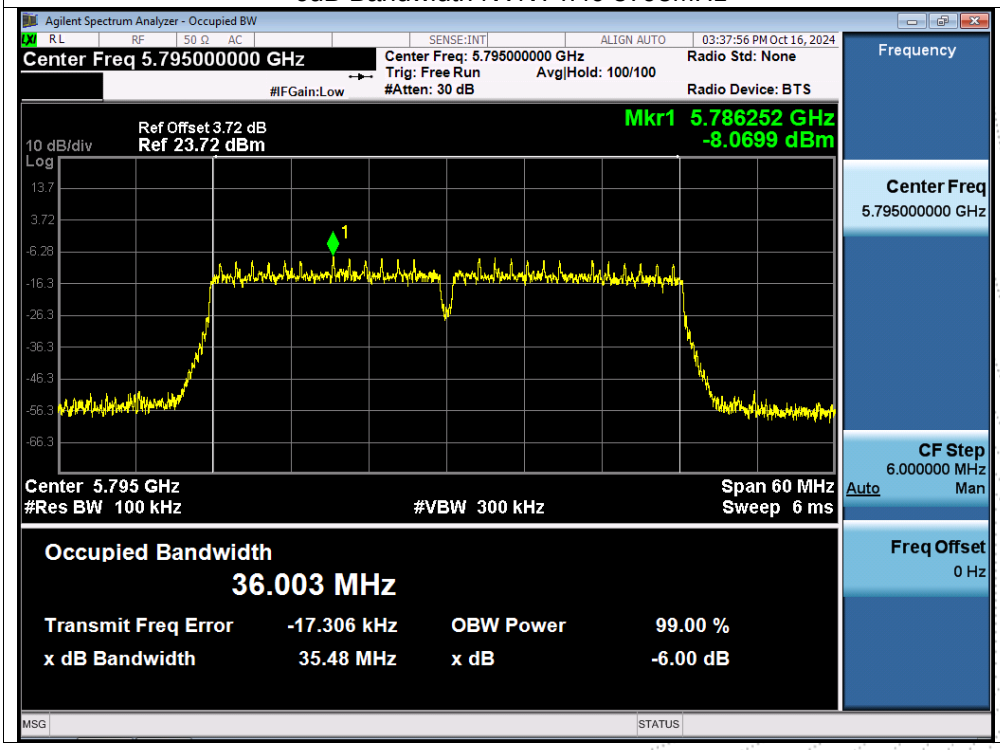
-6dB Bandwidth NVNT n20 5825MHz



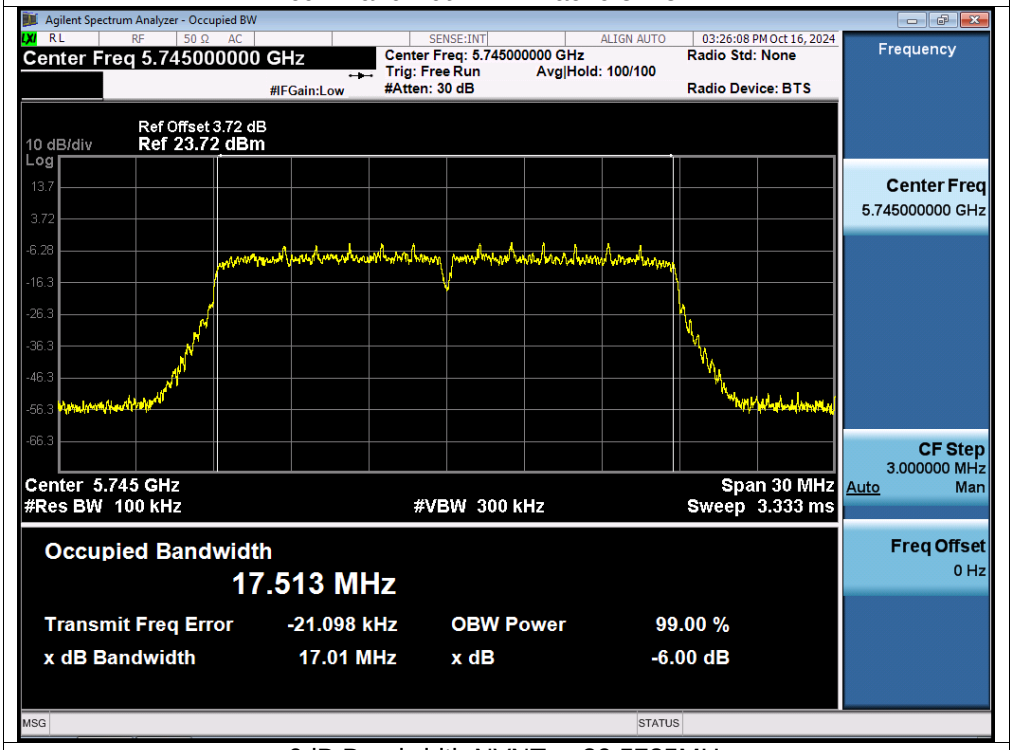
-6dB Bandwidth NVNT n40 5755MHz



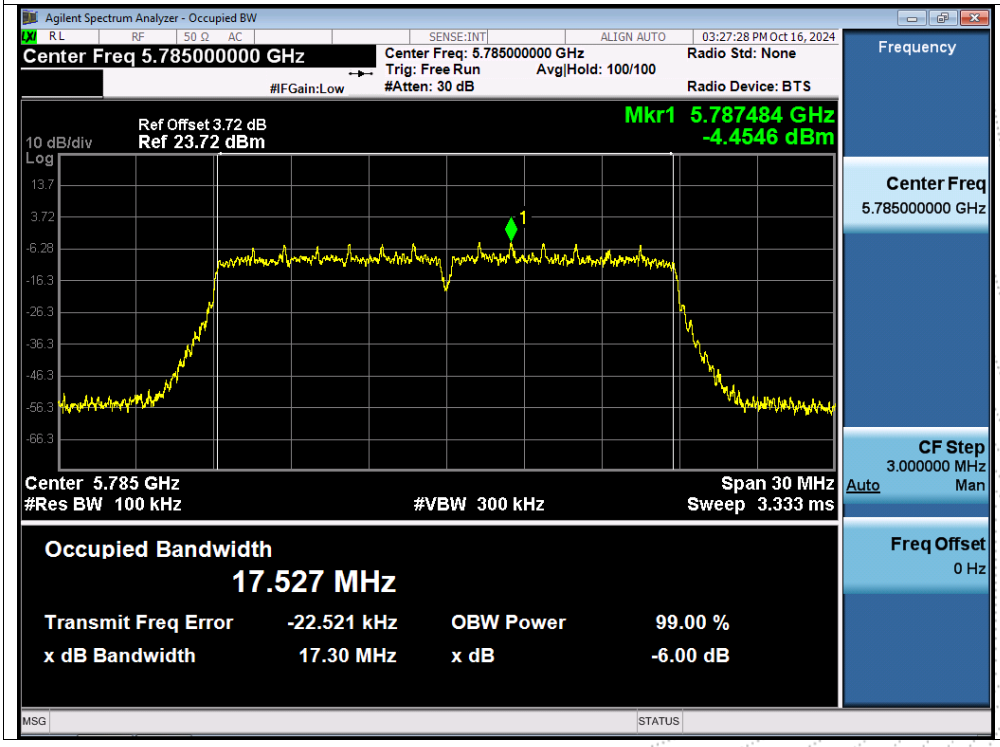
-6dB Bandwidth NVNT n40 5795MHz



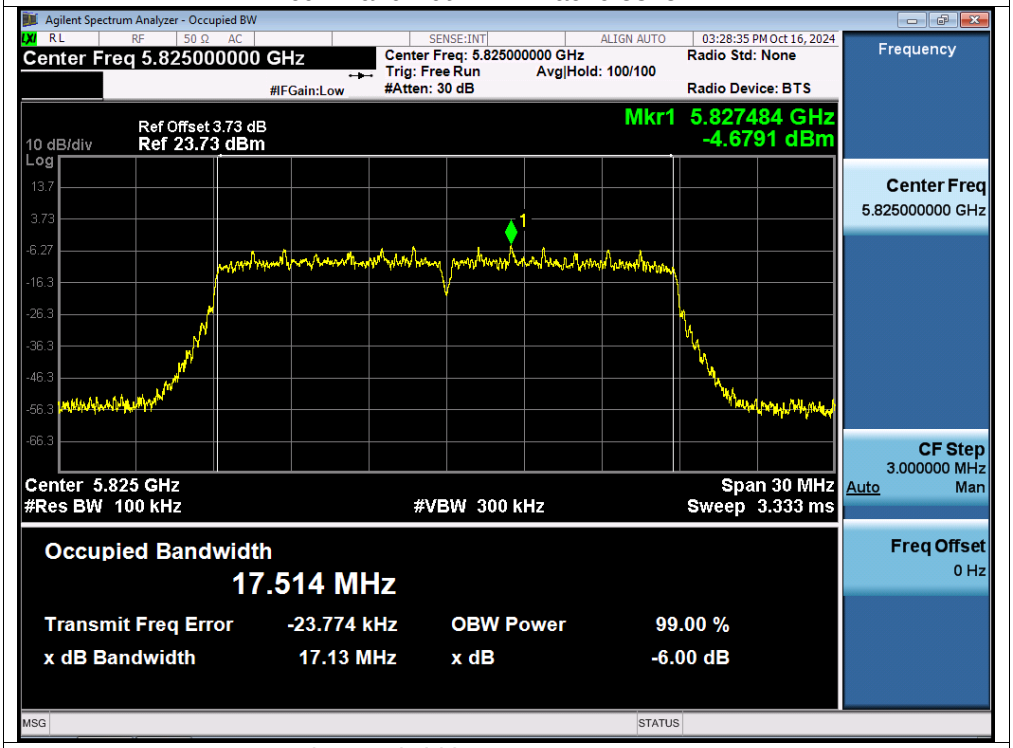
-6dB Bandwidth NVNT ac20 5745MHz



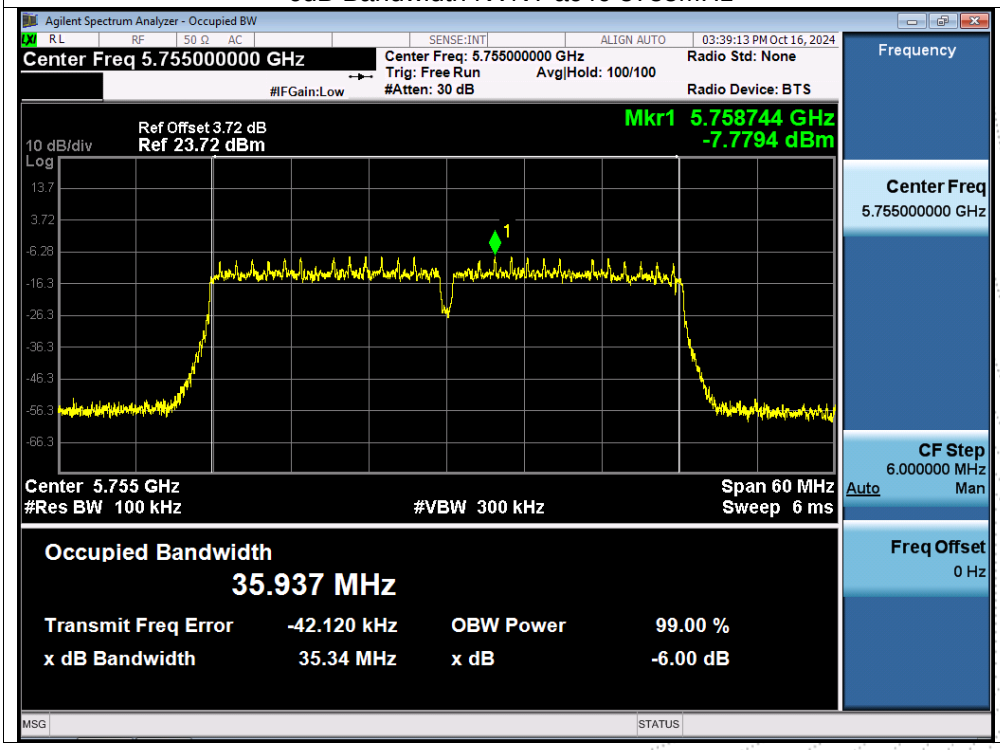
-6dB Bandwidth NVNT ac20 5785MHz



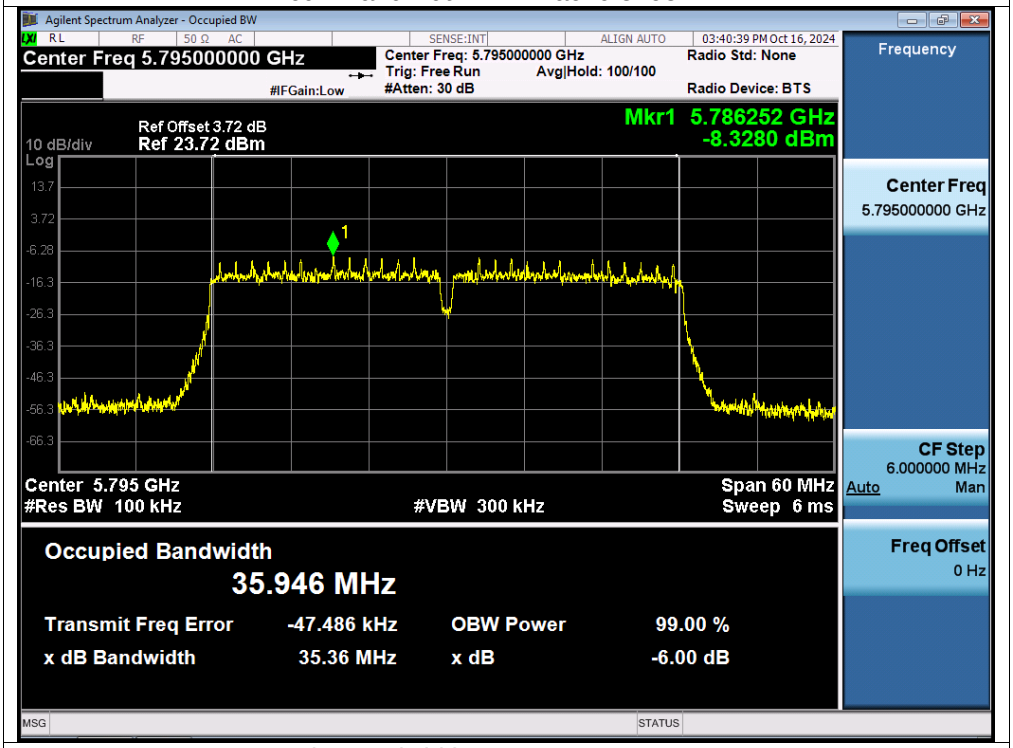
-6dB Bandwidth NVNT ac20 5825MHz



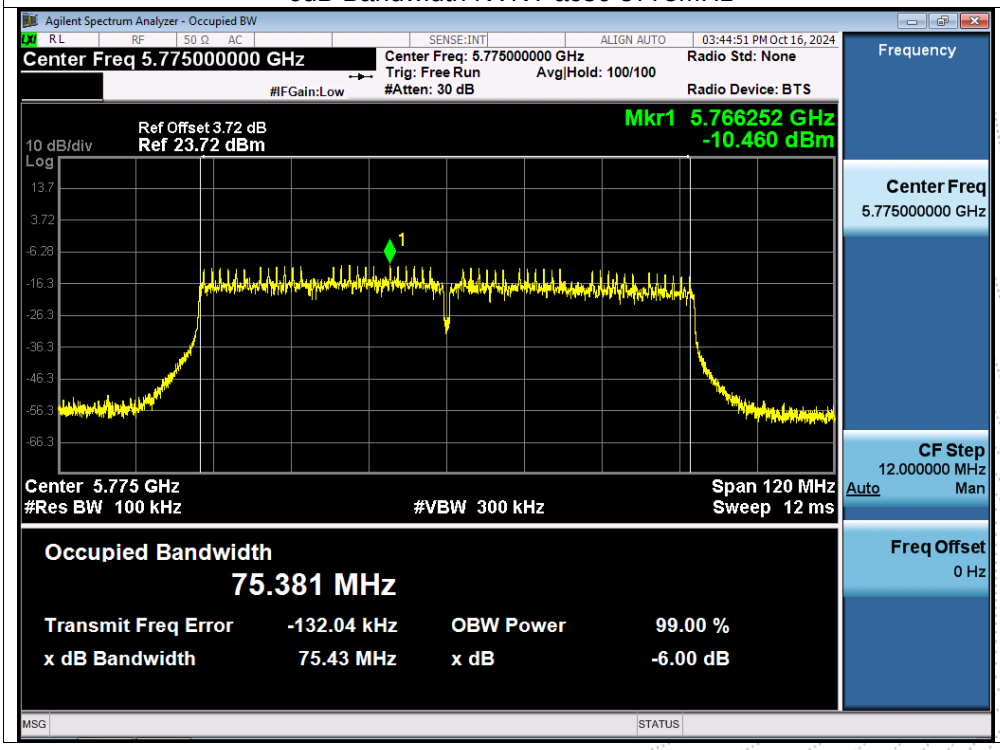
-6dB Bandwidth NVNT ac40 5755MHz



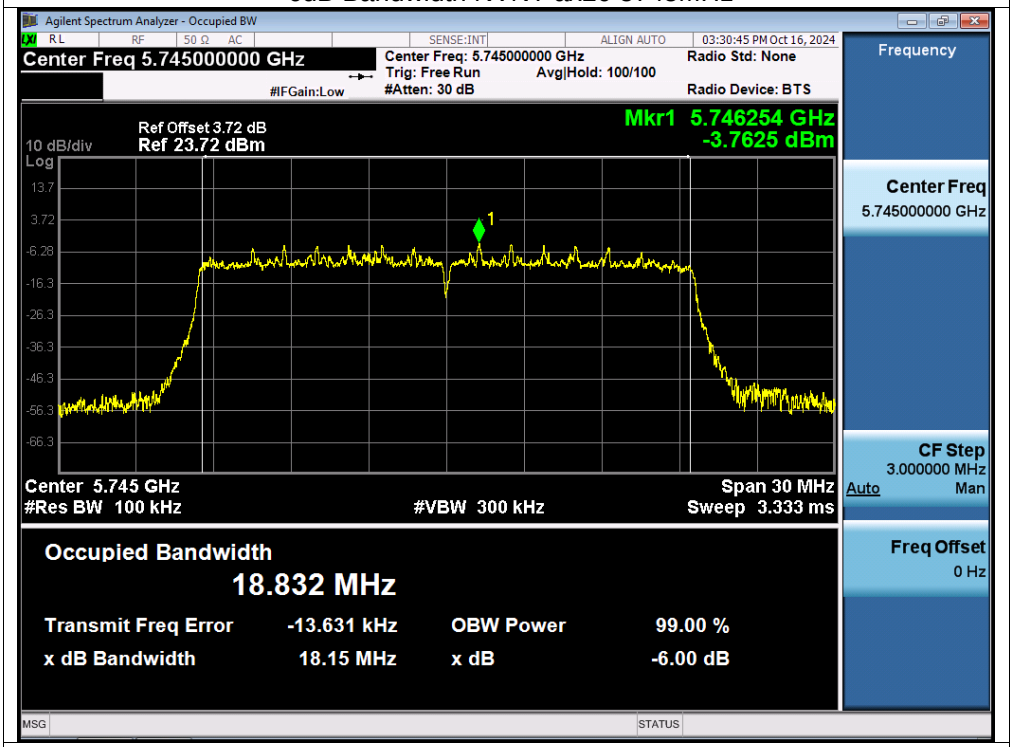
-6dB Bandwidth NVNT ac40 5795MHz



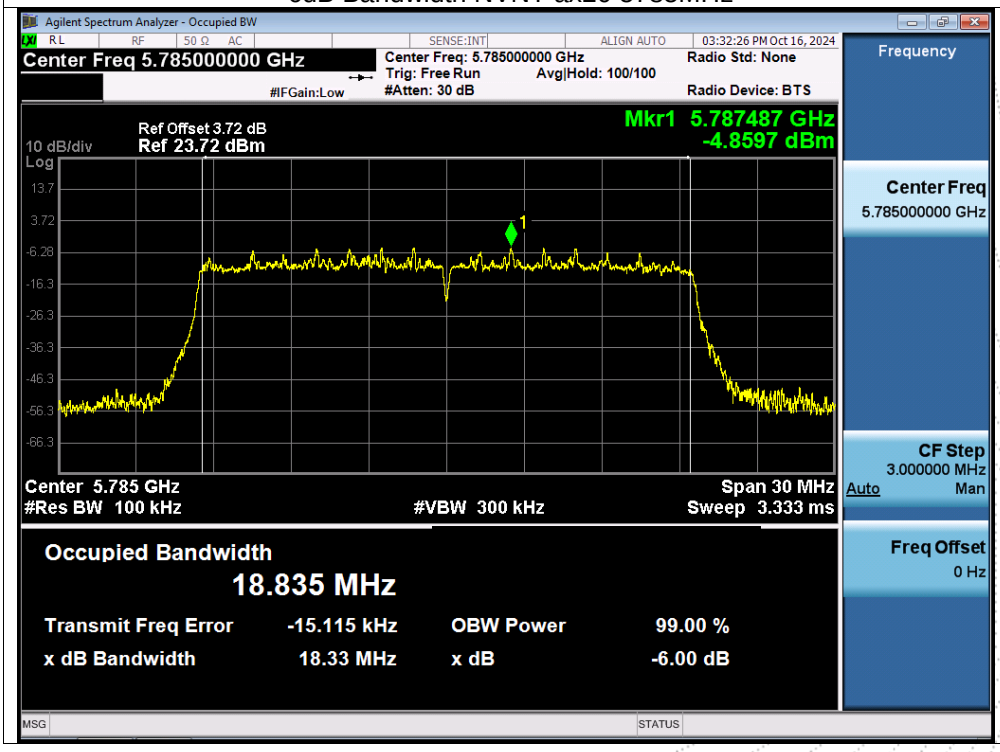
-6dB Bandwidth NVNT ac80 5775MHz



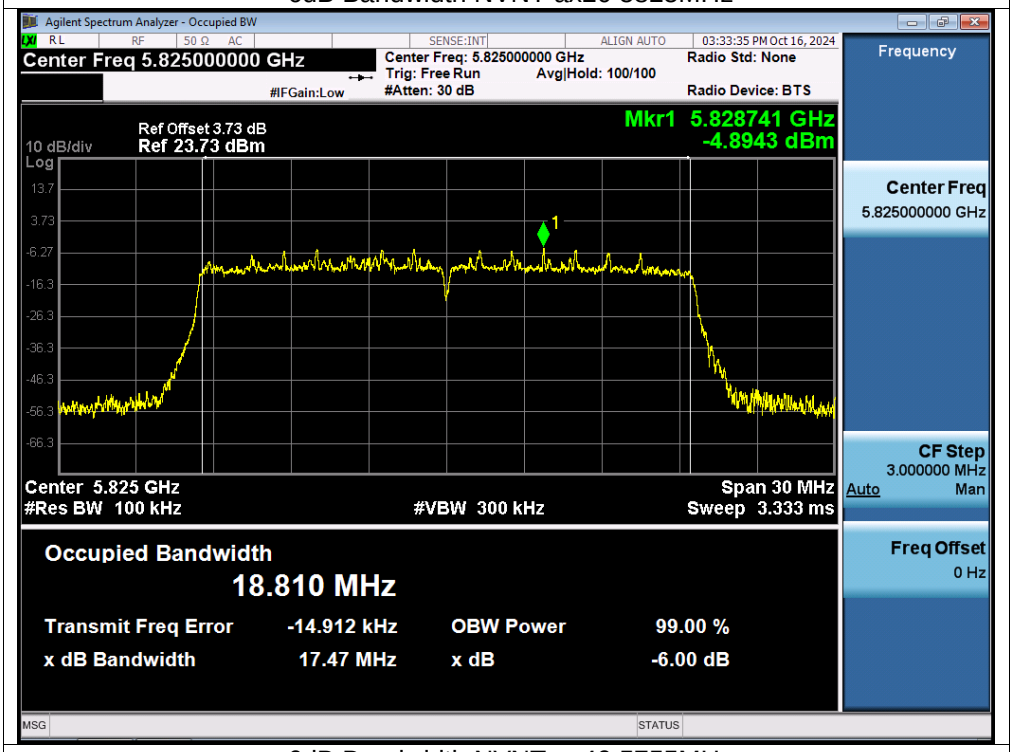
-6dB Bandwidth NVNT ax20 5745MHz



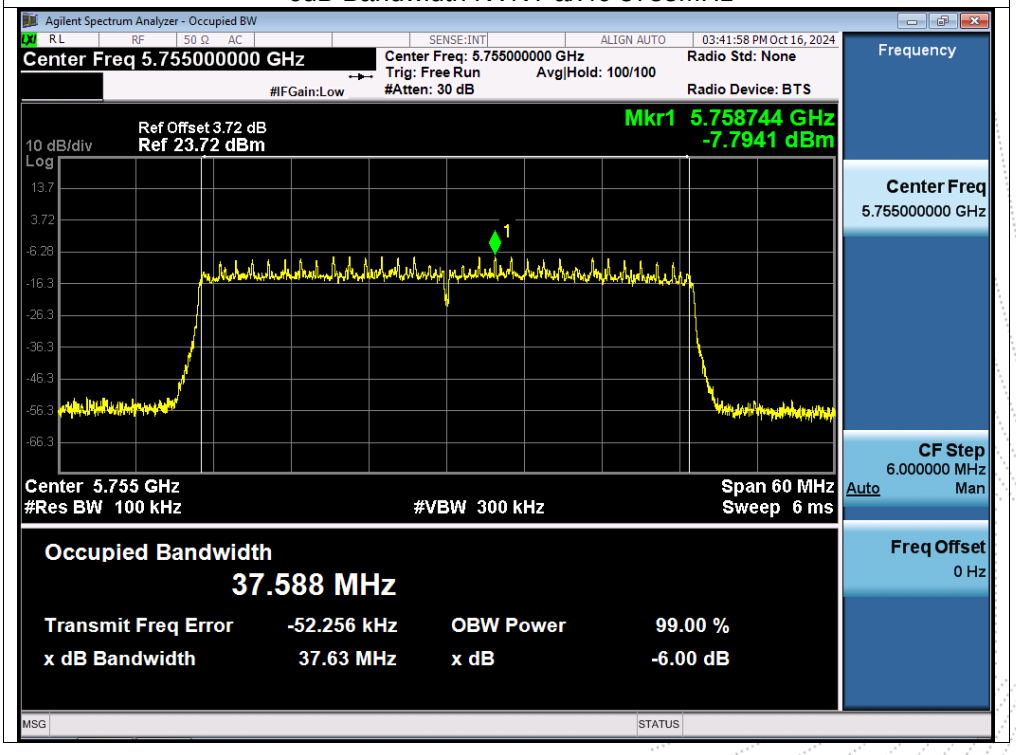
-6dB Bandwidth NVNT ax20 5785MHz



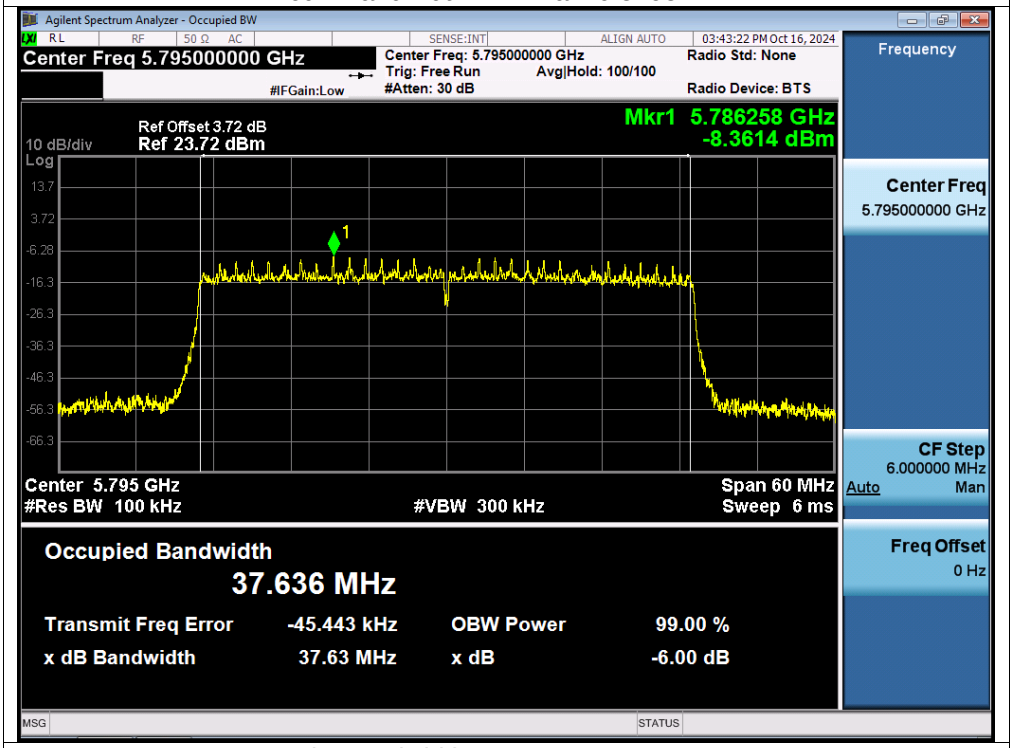
-6dB Bandwidth NVNT ax20 5825MHz



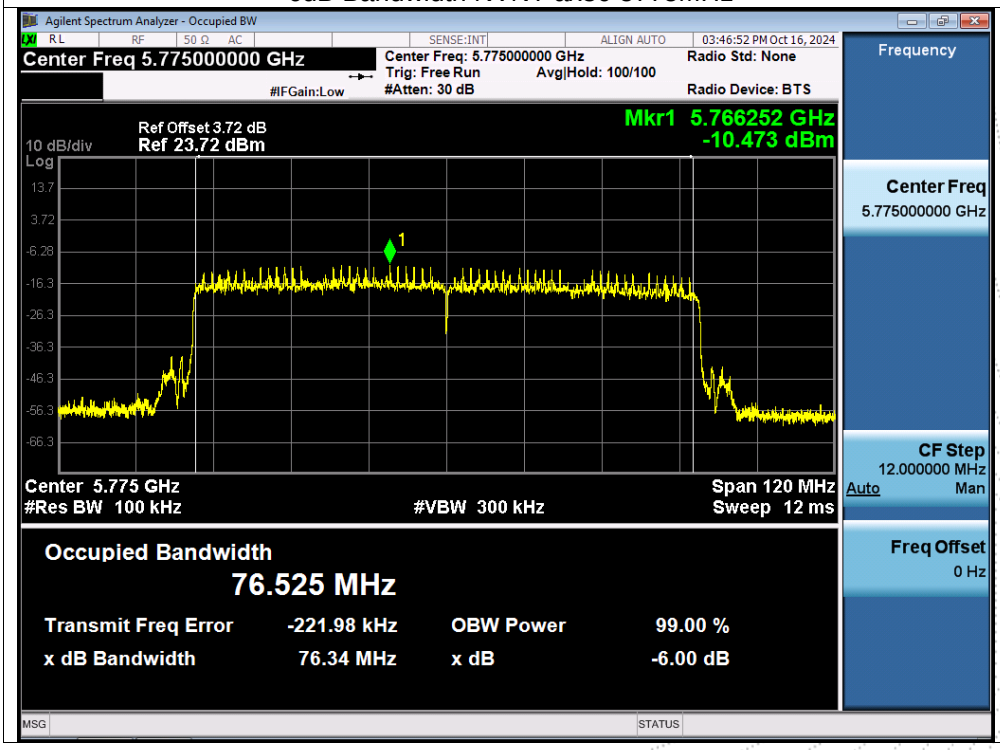
-6dB Bandwidth NVNT ax40 5755MHz



-6dB Bandwidth NVNT ax40 5795MHz



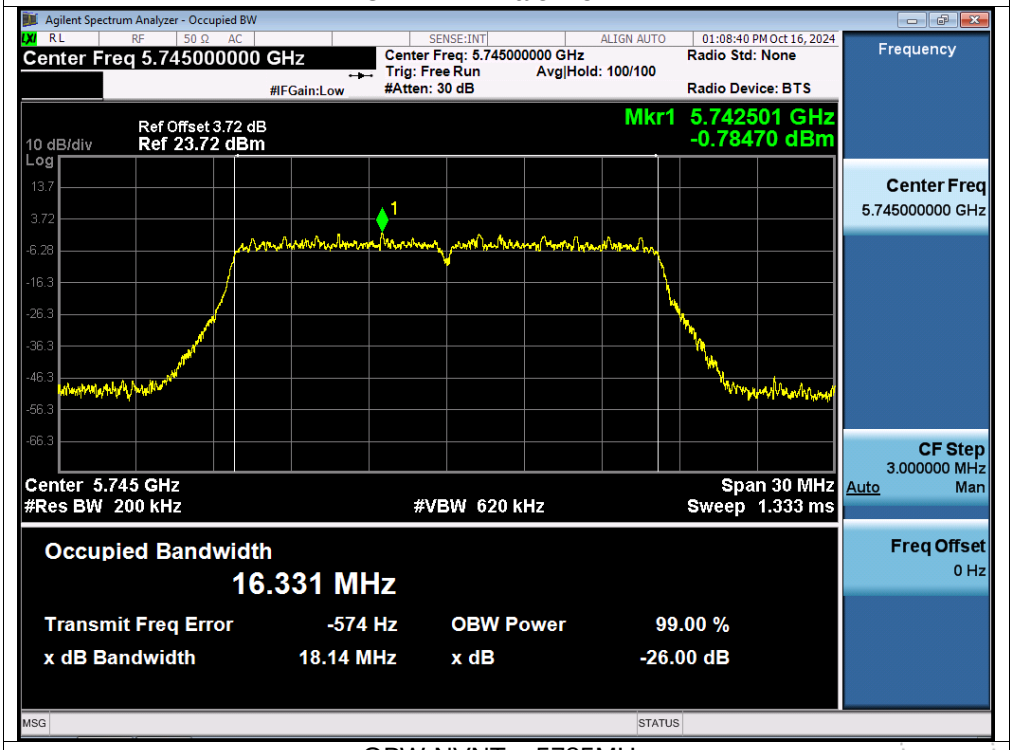
-6dB Bandwidth NVNT ax80 5775MHz



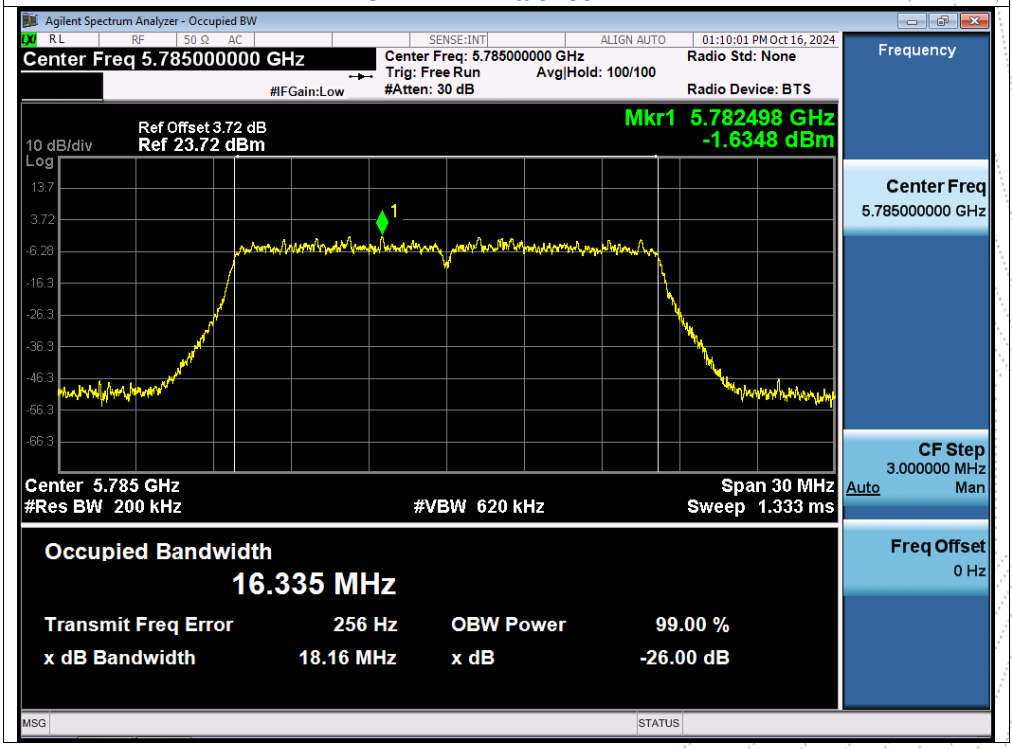
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

Test Graphs

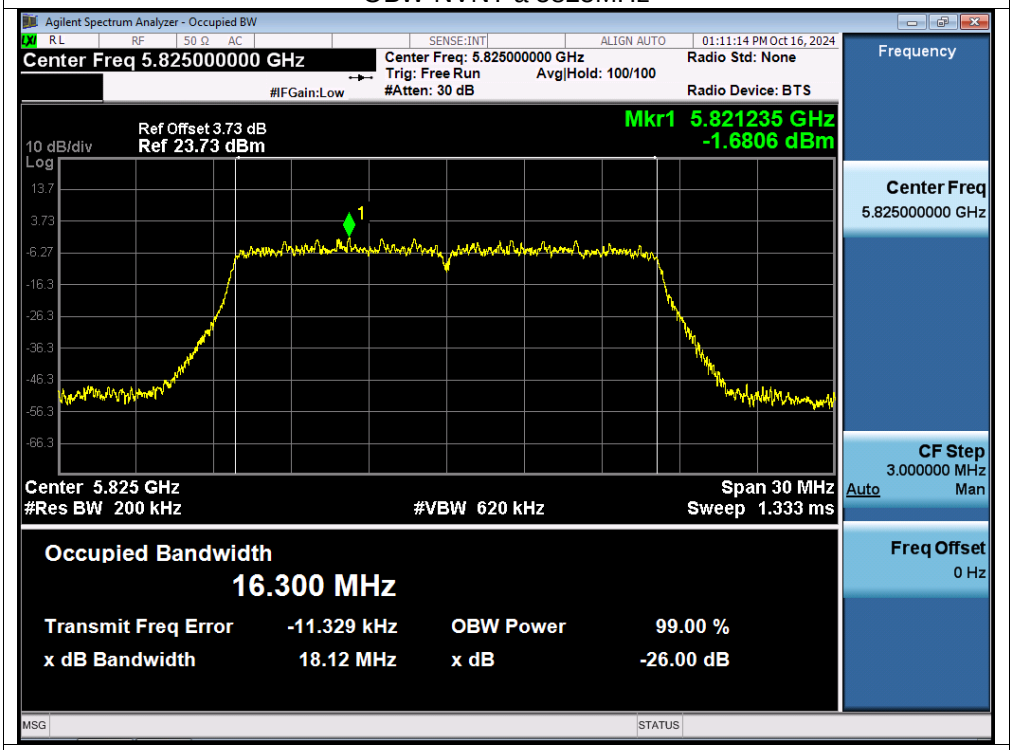
OBW NVNT a 5745MHz



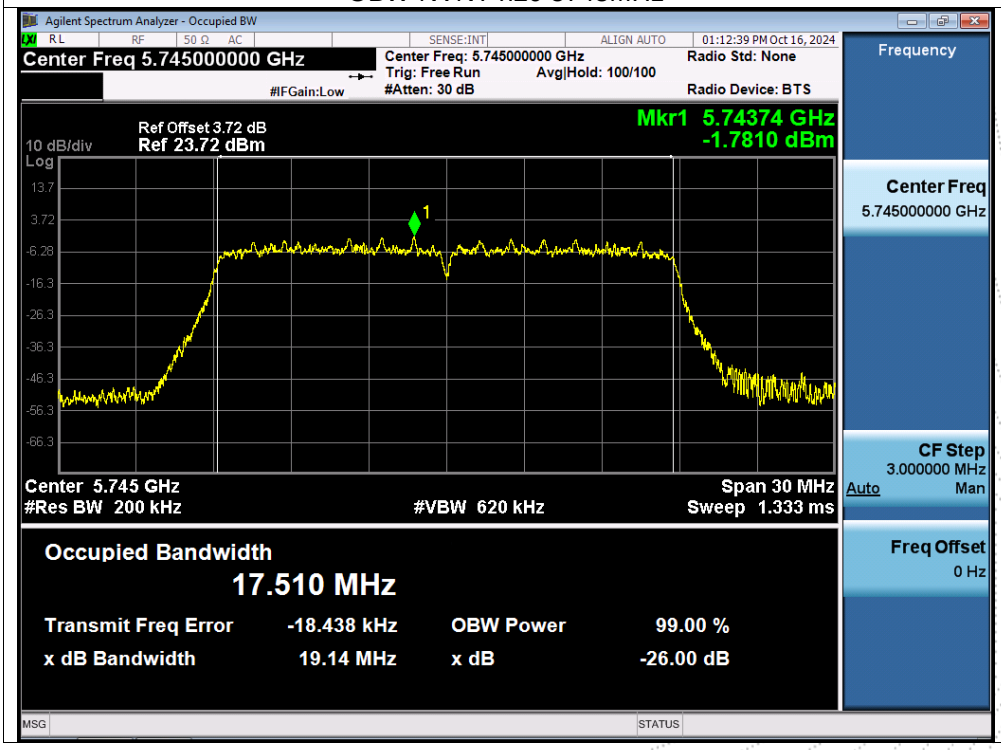
OBW NVNT a 5785MHz



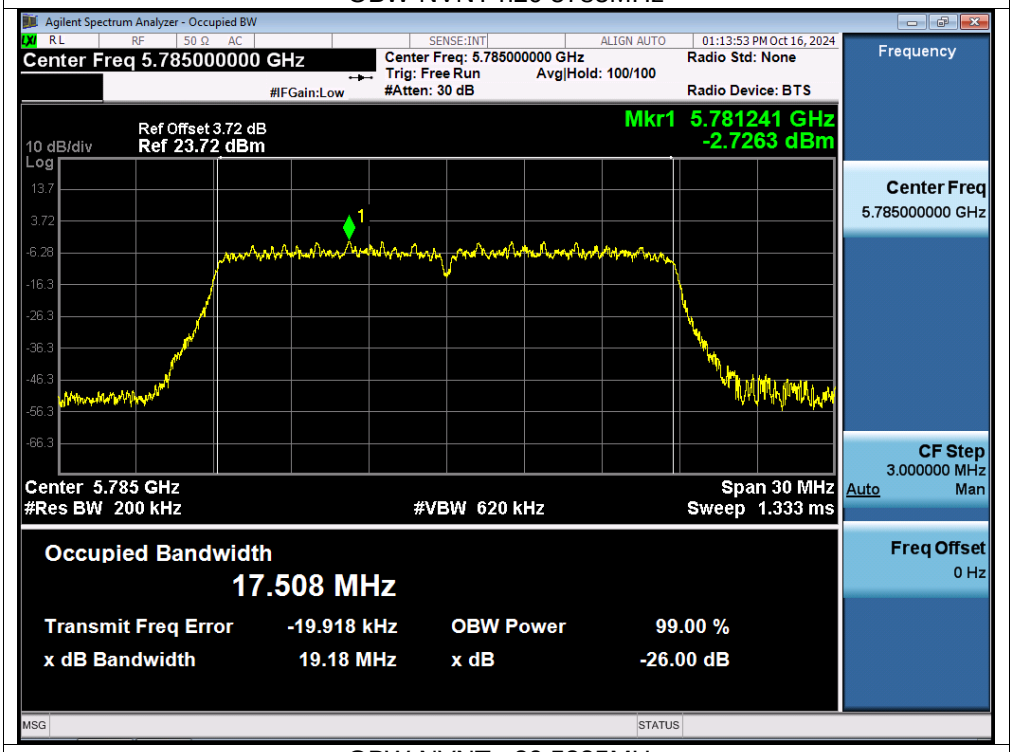
OBW NVNT a 5825MHz



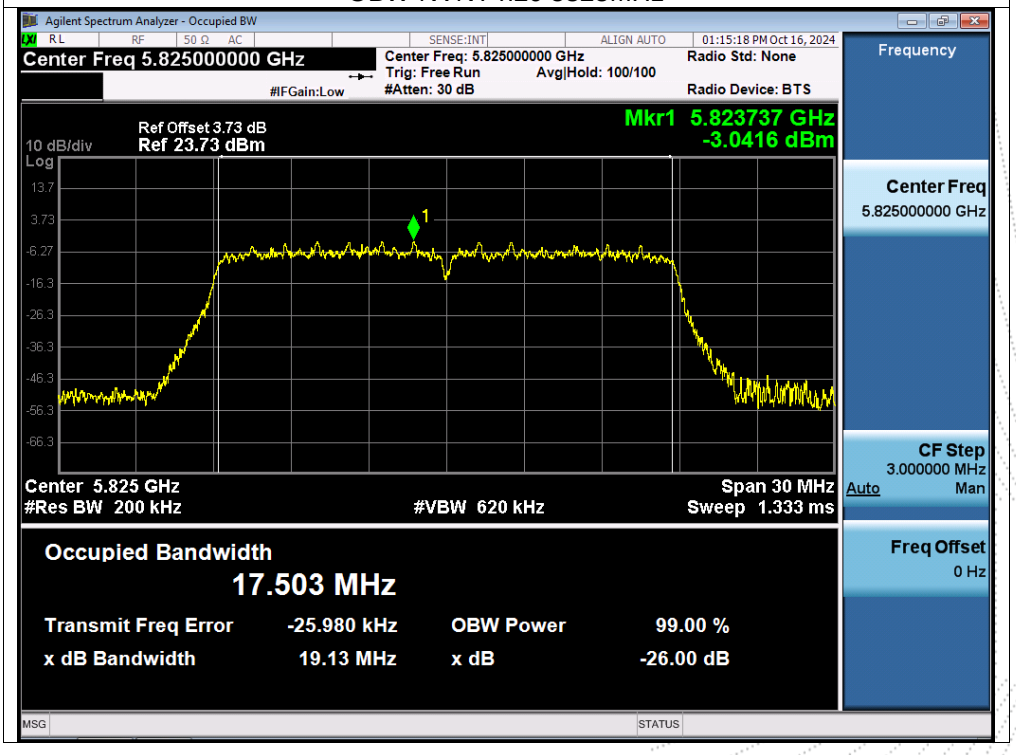
OBW NVNT n20 5745MHz



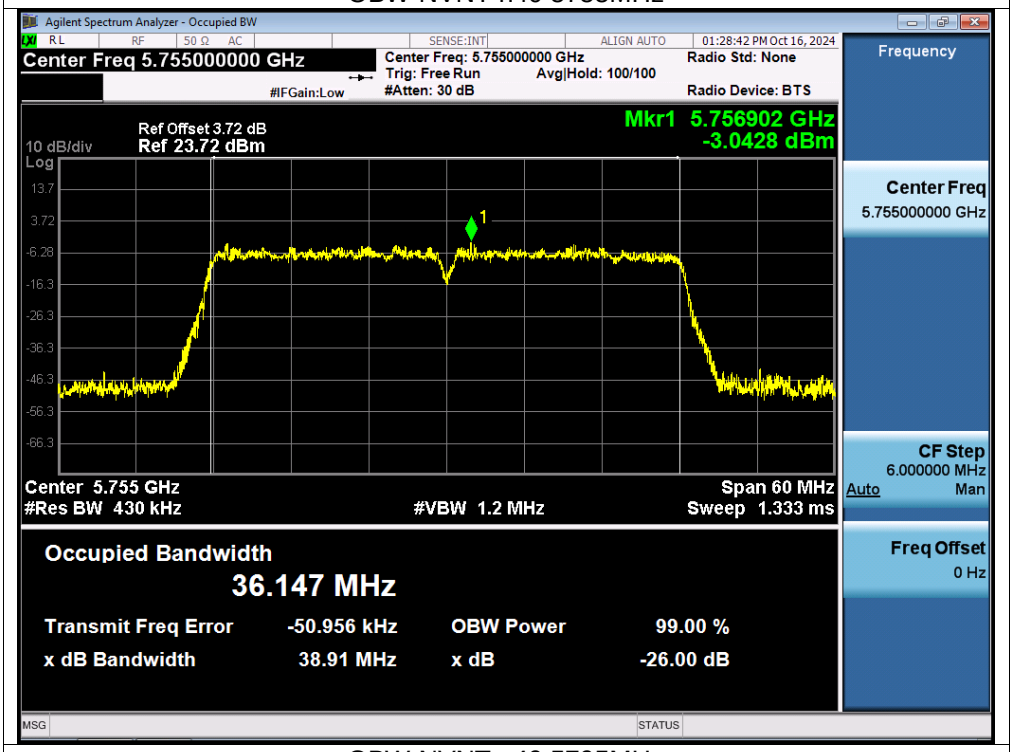
OBW NVNT n20 5785MHz



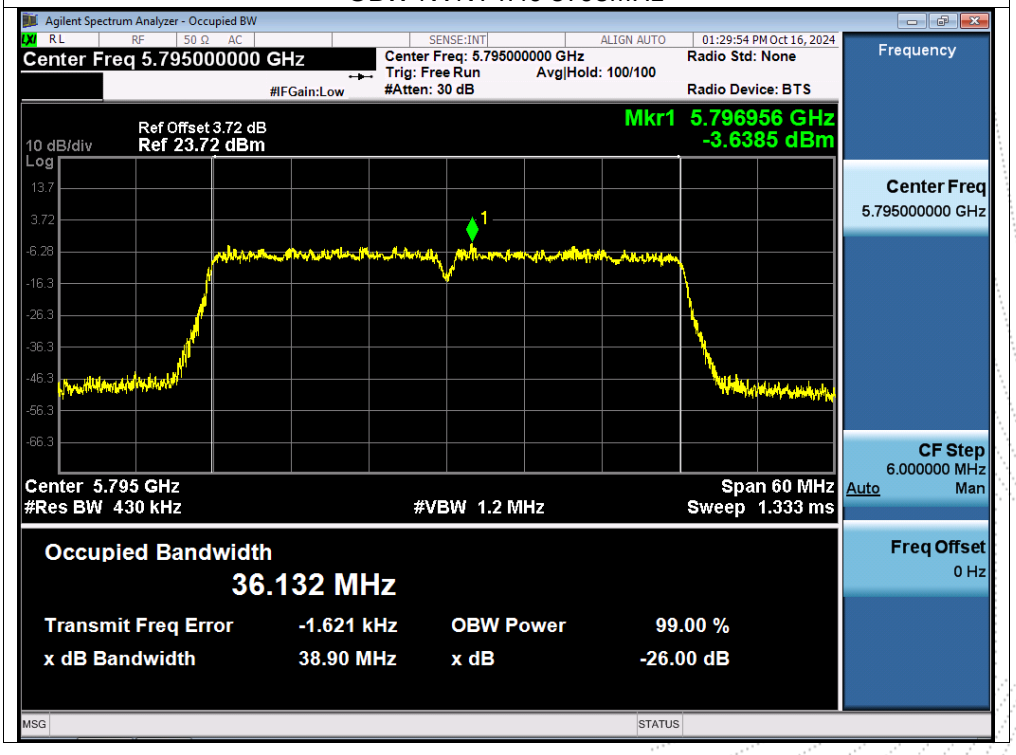
OBW NVNT n20 5825MHz



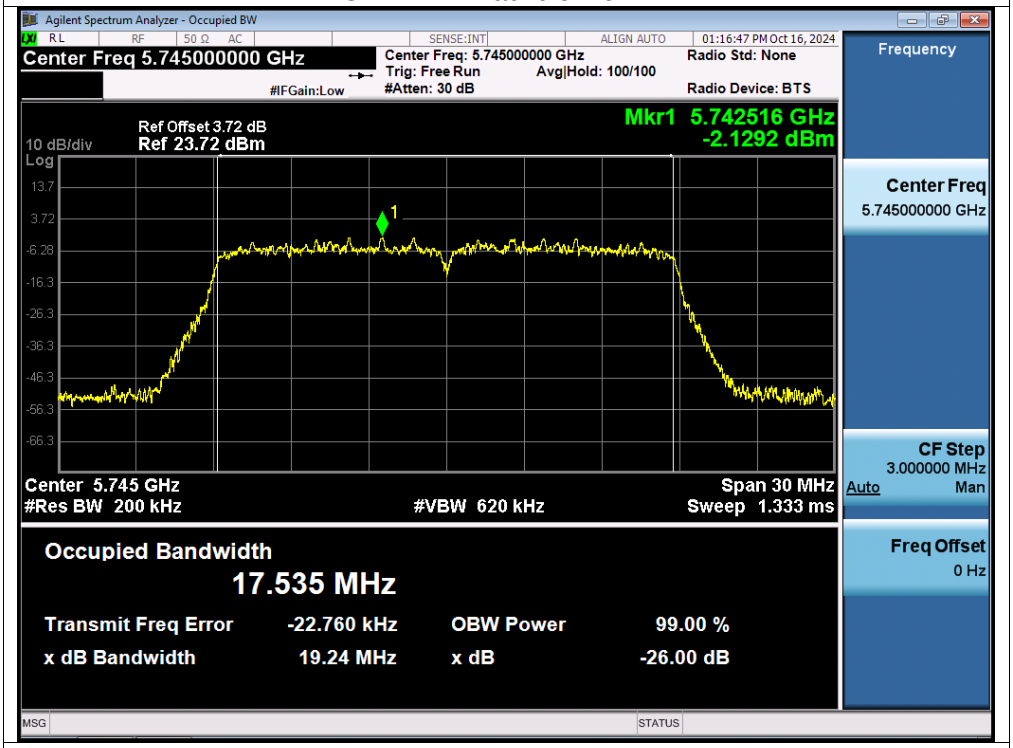
OBW NVNT n40 5755MHz



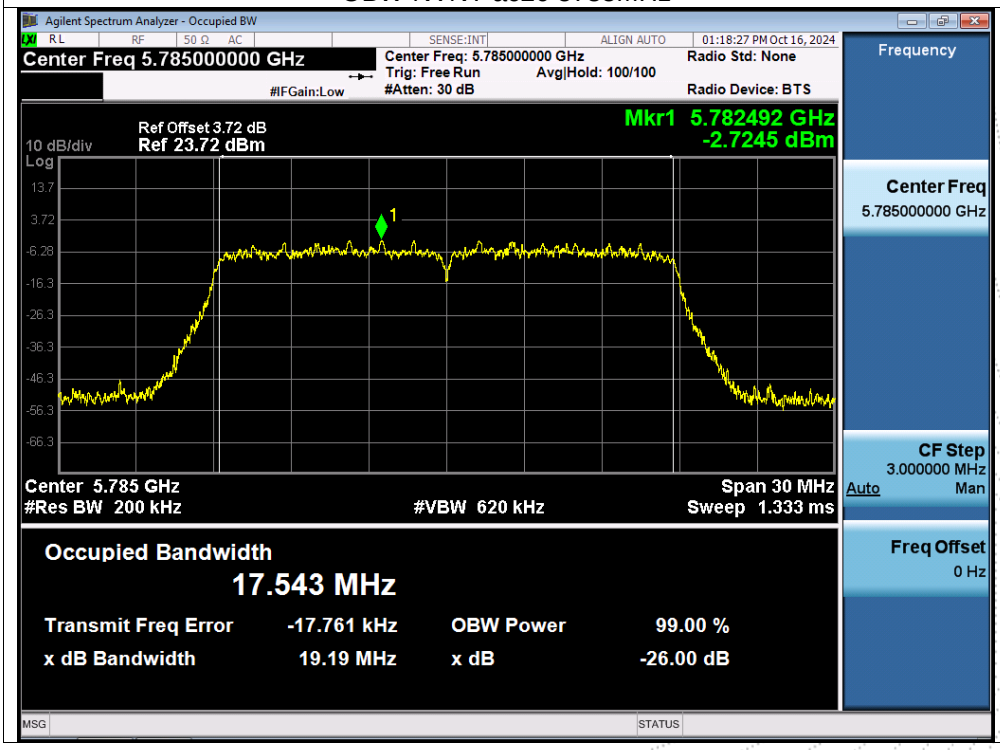
OBW NVNT n40 5795MHz



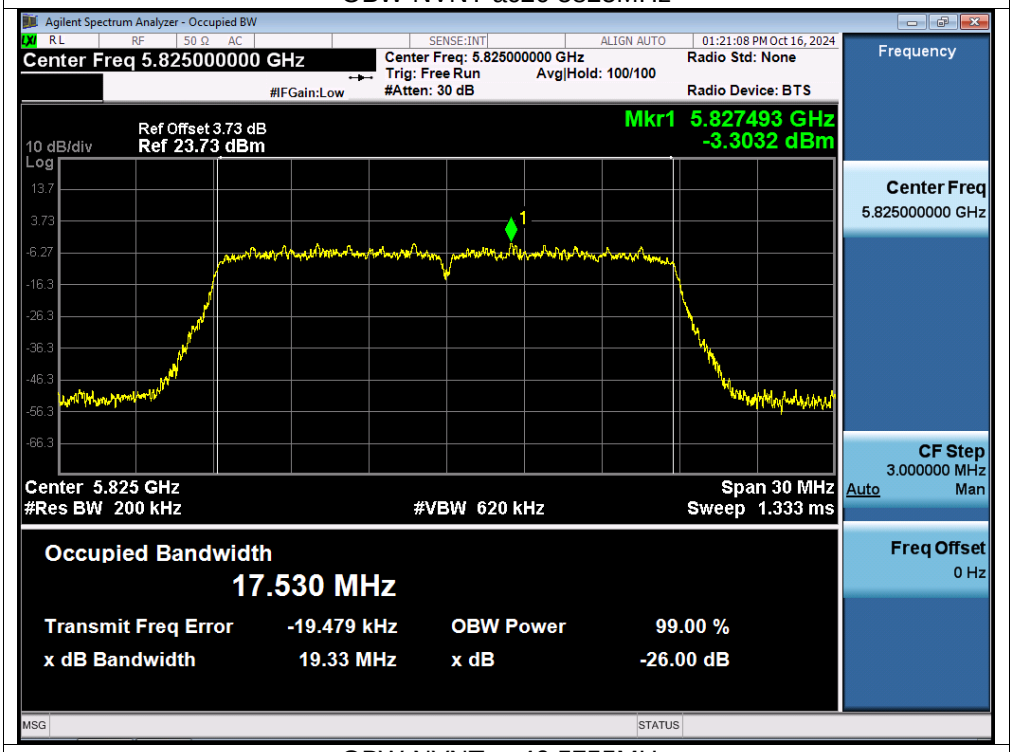
OBW NVNT ac20 5745MHz



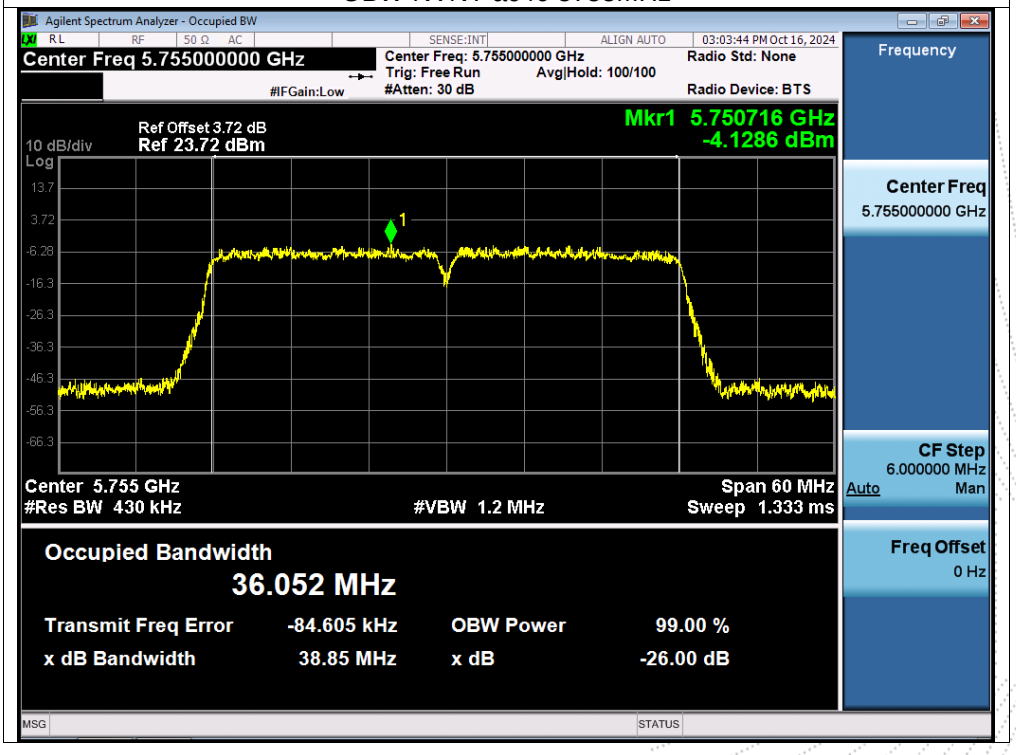
OBW NVNT ac20 5785MHz



OBW NVNT ac20 5825MHz

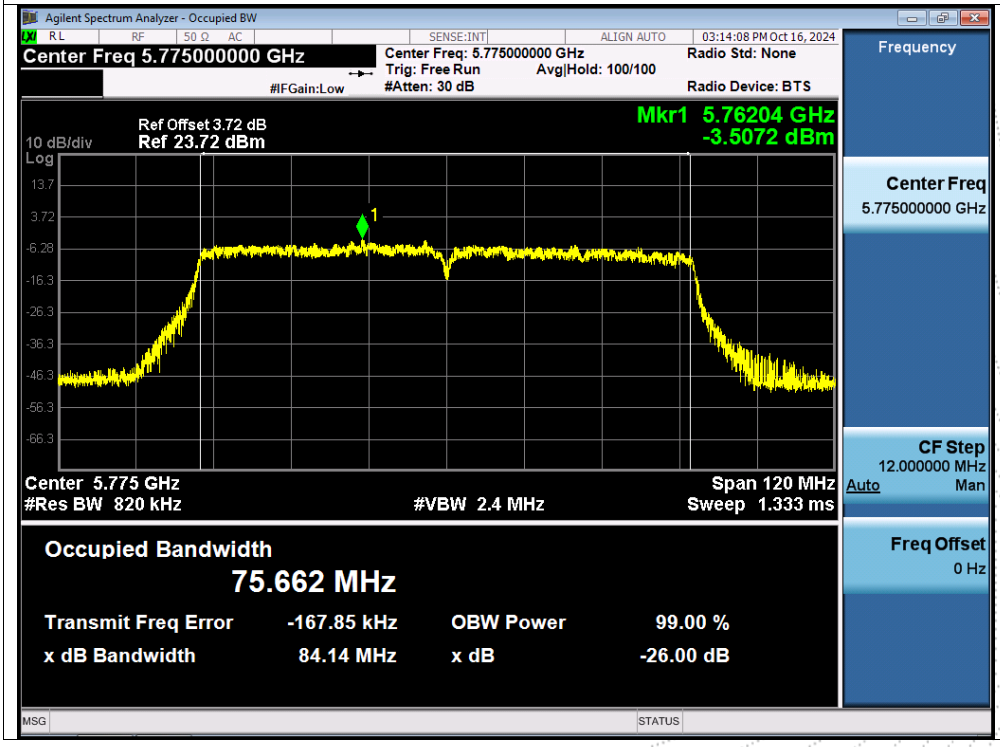


OBW NVNT ac40 5755MHz

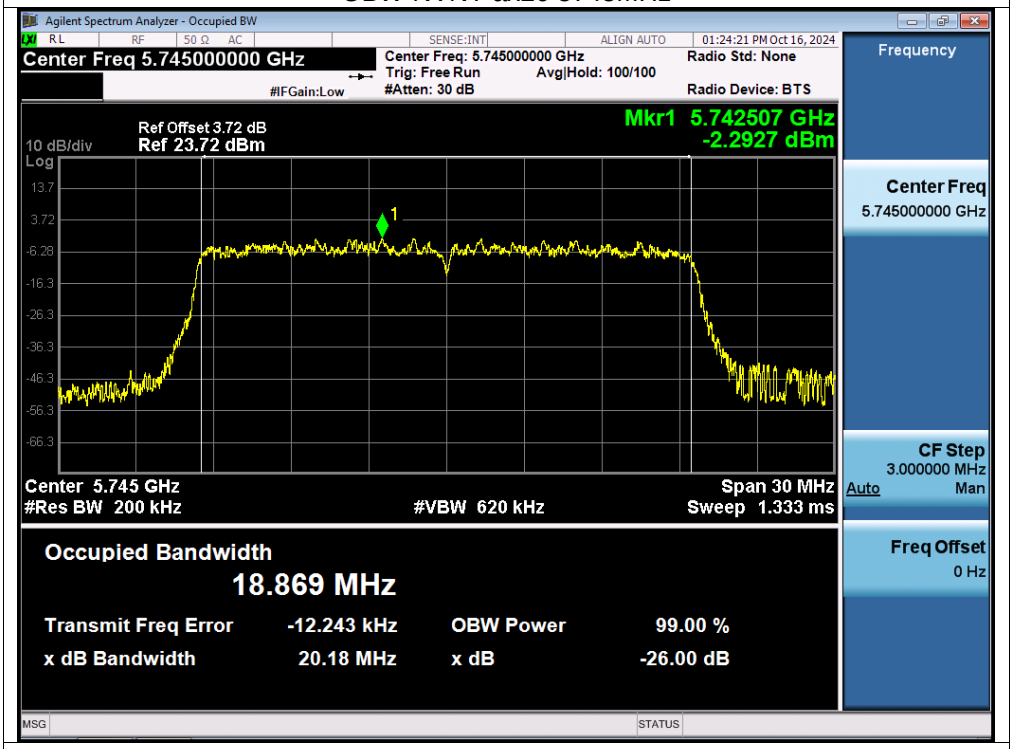


OBW NVNT ac40 5795MHz

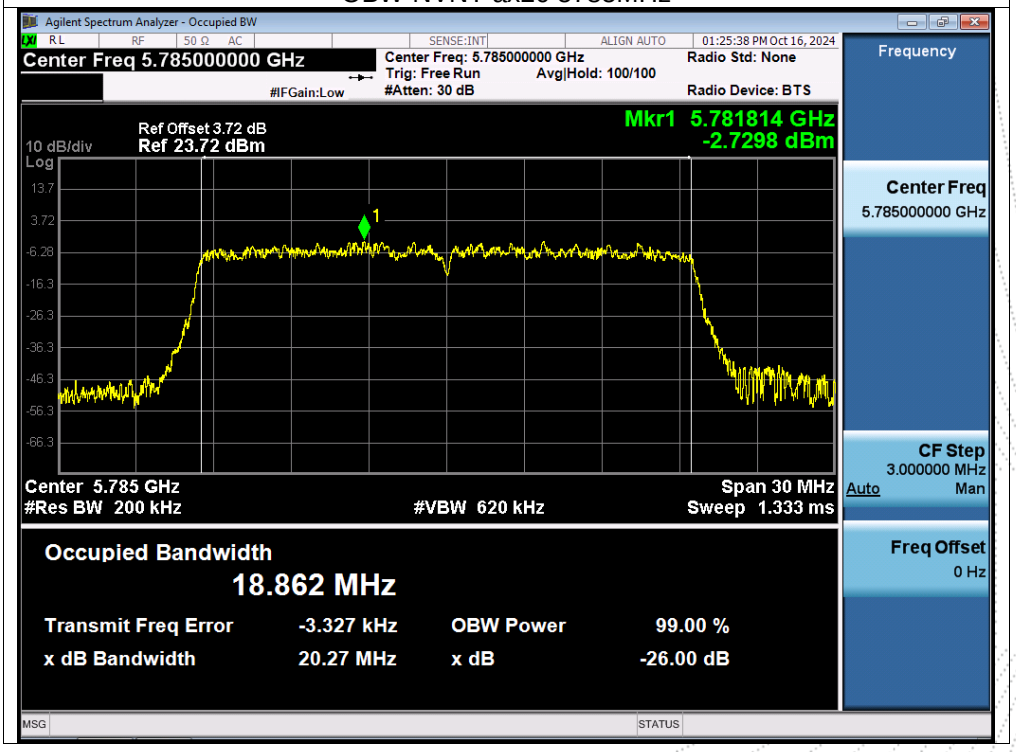
OBW NVNT ac80 5775MHz



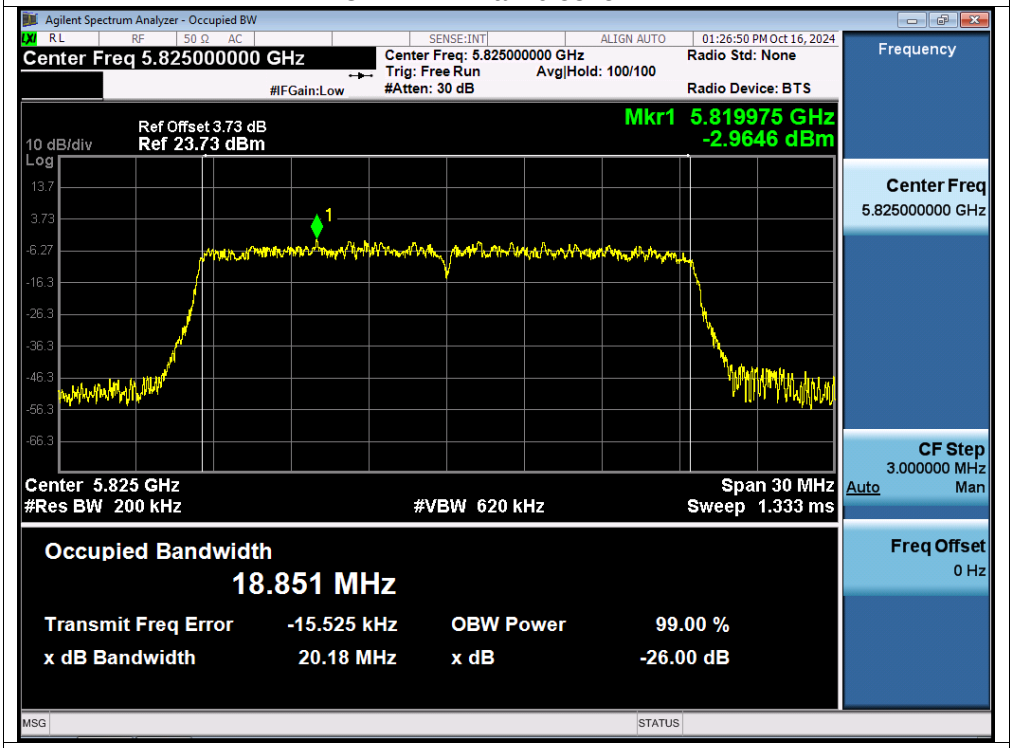
OBW NVNT ax20 5745MHz



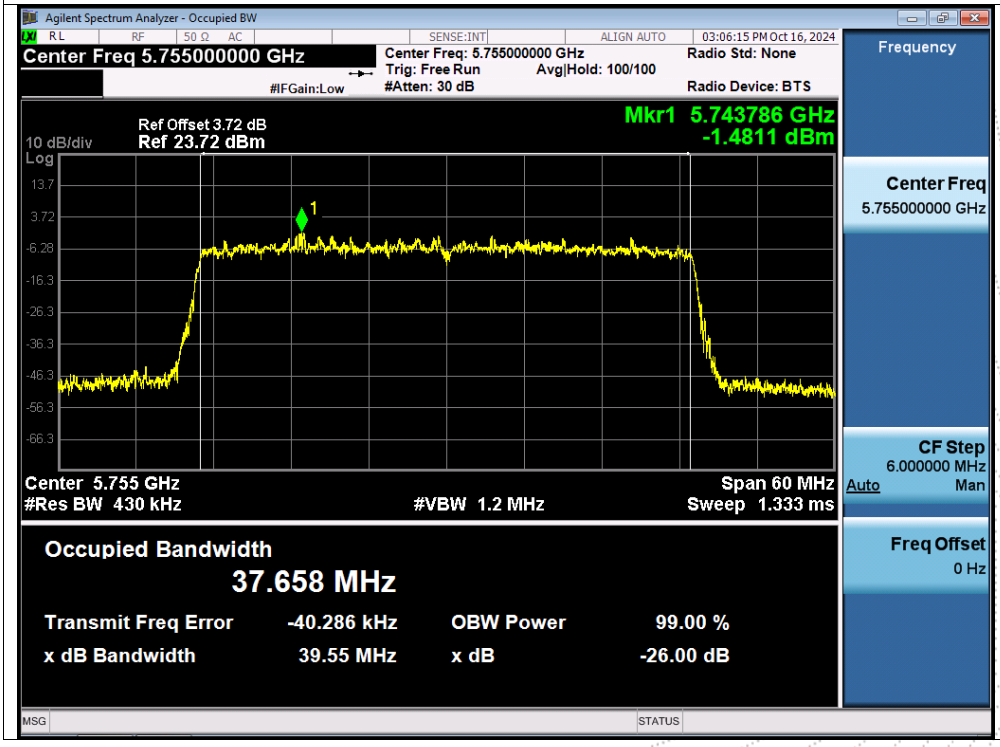
OBW NVNT ax20 5785MHz



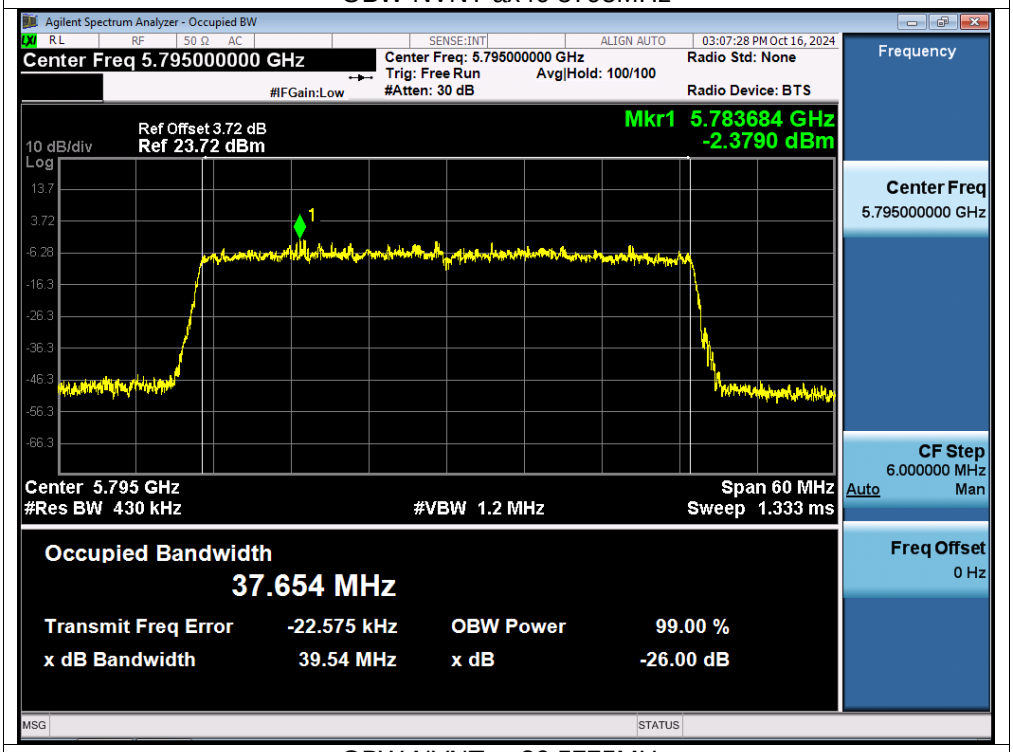
OBW NVNT ax20 5825MHz



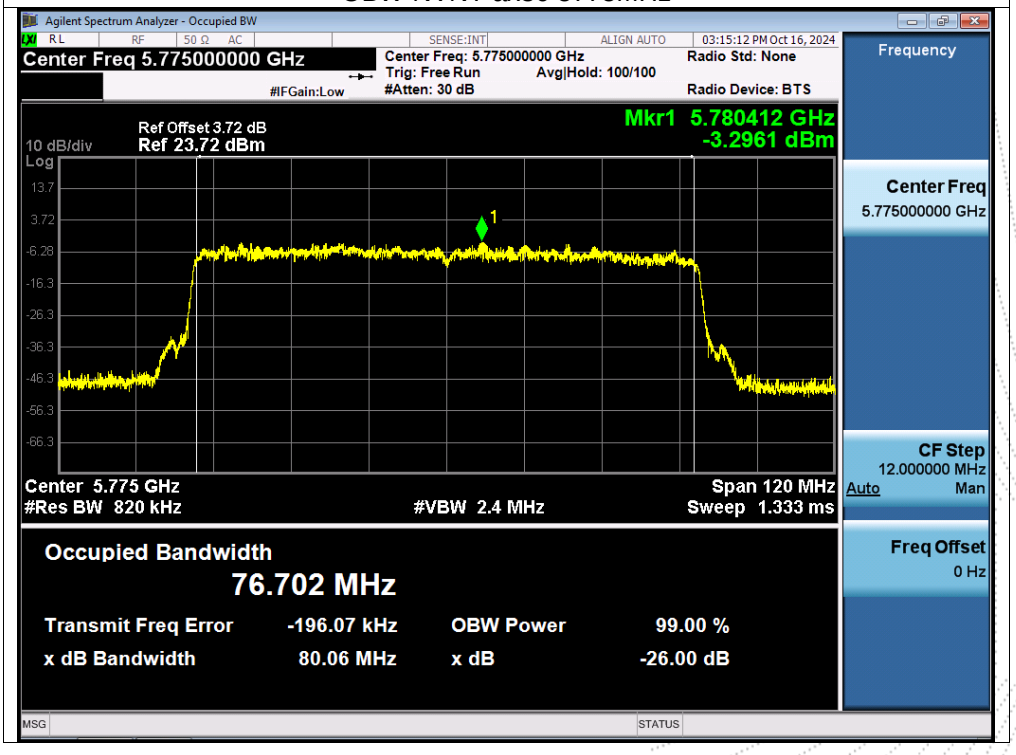
OBW NVNT ax40 5755MHz



OBW NVNT ax40 5795MHz

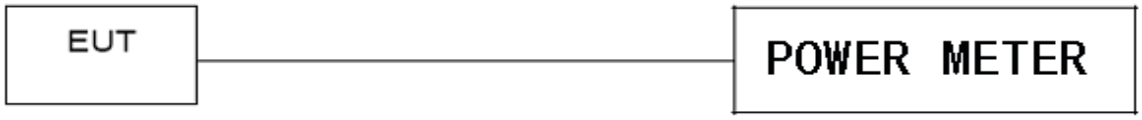


OBW NVNT ax80 5775MHz



10. Maximum Conducted Output Power

10.1 Block Diagram Of Test Setup



10.2 Limit

According to FCC §15.407
The maximum conduced output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5725~5850	1W

10.3 Test Procedure

Maximum conducted output power may be measured using a spectrum analyzer/EMI receiver or an RF power meter.

1. Device Configuration
If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see section II.B.).
a) The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (to no lower than 98 percent) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.
b) If continuous transmission (or at least 98 percent duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level with the transmit duration as long as possible and the duty cycle as high as possible.

2. Measurement using a Spectrum Analyzer or EMI Receiver (SA)
Measurement of maximum conducted output power using a spectrum analyzer requires integrating the spectrum across a frequency span that encompasses, at a minimum, either the EBW or the 99-percent occupied bandwidth of the signal.1 However, the EBW must be used to determine bandwidth dependent limits on maximum conducted output power in accordance with § 15.407(a).
a) The test method shall be selected as follows: (i) Method SA-1 or SA-1 Alternative (averaging with the EUT transmitting at full power throughout each sweep) shall be applied if either of the following conditions can be satisfied:
• The EUT transmits continuously (or with a duty cycle ≥ 98 percent).
• Sweep triggering or gating can be implemented in a way that the device transmits at the maximum power control level throughout the duration of each of the instrument sweeps to be averaged. This condition can generally be achieved by triggering the instrument's sweep if the duration of the sweep (with the analyzer configured as in Method SA-1, below) is equal to or shorter than the duration T of each transmission from the EUT and if those transmissions exhibit full power throughout their durations.
(ii) Method SA-2 or SA-2 Alternative (averaging across on and off times of the EUT transmissions, followed by duty cycle correction) shall be applied if the conditions of (i) cannot be achieved and the transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than ± 2 percent.

(iii) Method SA-3 (RMS detection with max hold) or SA-3 Alternative (reduced VBW with max hold) shall be applied if the conditions of (i) and (ii) cannot be achieved.

b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep): (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
(ii) Set RBW = 1 MHz.
(iii) Set VBW ≥ 3 MHz.
(iv) Number of points in sweep ≥ 2 Span / RBW. (This ensures that bin-to-bin spacing is ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
(v) Sweep time = auto.
(vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
(vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
(viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum

10.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

10.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	AC 120V/60HZ
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

Mode	Channel	Frequency (MHz)	Conducted Power (dBm)			Limit (dBm)	Result
			ANT A	ANT B	Total		
NVNT	a	5180	10.7	10.68	/	24	Pass
NVNT	a	5200	10.32	10.41	/	24	Pass
NVNT	a	5240	9.45	9.7	/	24	Pass
NVNT	n20	5180	9.64	9.59	12.63	24	Pass
NVNT	n20	5200	9.32	9.21	12.28	24	Pass
NVNT	n20	5240	8.8	8.51	11.67	24	Pass
NVNT	n40	5190	7.57	4.2	9.21	24	Pass
NVNT	n40	5230	6.37	6.06	9.23	24	Pass
NVNT	ac20	5180	9.66	9.53	12.61	24	Pass
NVNT	ac20	5200	9.33	9.2	12.28	24	Pass
NVNT	ac20	5240	8.76	8.19	11.49	24	Pass
NVNT	ac40	5190	7.43	7.07	10.26	24	Pass
NVNT	ac40	5230	6.62	5.93	9.30	24	Pass
NVNT	ac80	5210	6.68	6.83	9.77	24	Pass
NVNT	ax20	5180	9.47	9.35	12.42	24	Pass
NVNT	ax20	5200	9.19	9	12.11	24	Pass
NVNT	ax20	5240	8.91	8.05	11.51	24	Pass
NVNT	ax40	5190	7.36	7.17	10.28	24	Pass
NVNT	ax40	5230	6.45	5.92	9.20	24	Pass
NVNT	ax80	5210	6.83	7.02	9.94	24	Pass

Note:
Antenna A gain:1.4 dBi, Antenna B gain: 1.4 dBi, Directional gain=[GainANT + 10 log(NANT) dBi] =4.41 dbi<6dbi
Limit=24 dBm

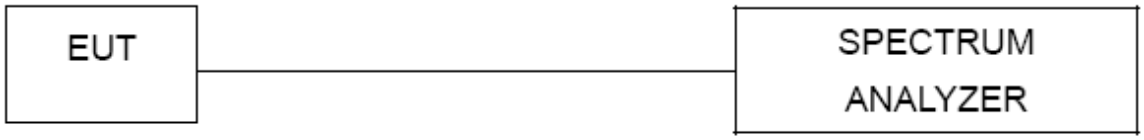
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	AC 120V/60HZ
Test Mode:	TX Frequency U-NII-3 (5745-5825MHz)		

Mode	Channel	Frequency (MHz)	Conducted Power (dBm)			Limit (dBm)	Result
			ANT A	ANT B	Total		
NVNT	a	5745	10.64	10.12	/	30	Pass
NVNT	a	5785	10.1	9.4	/	30	Pass
NVNT	a	5825	9.75	8.91	/	30	Pass
NVNT	n20	5745	9.64	9.02	12.35	30	Pass
NVNT	n20	5785	8.95	8.35	11.67	30	Pass
NVNT	n20	5825	8.63	7.75	11.22	30	Pass
NVNT	n40	5755	7.45	7.14	10.31	30	Pass
NVNT	n40	5795	6.96	6.28	9.64	30	Pass
NVNT	ac20	5745	9.62	9.04	12.35	30	Pass
NVNT	ac20	5785	8.94	8.26	11.62	30	Pass
NVNT	ac20	5825	8.54	7.8	11.20	30	Pass
NVNT	ac40	5755	7.52	7.03	10.29	30	Pass
NVNT	ac40	5795	6.96	6.14	9.58	30	Pass
NVNT	ac80	5775	6.01	5.63	8.83	30	Pass
NVNT	ax20	5745	9.44	8.88	12.18	30	Pass
NVNT	ax20	5785	8.73	8.13	11.45	30	Pass
NVNT	ax20	5825	8.38	7.78	11.10	30	Pass
NVNT	ax40	5755	7.74	7.12	10.45	30	Pass
NVNT	ax40	5795	6.86	6.27	9.59	30	Pass
NVNT	ax80	5775	6.43	6.05	9.25	30	Pass

Note:
Antenna A gain:1.44 dBi, Antenna B gain: 1.44 dBi, Directional gain=[GainANT + 10 log(NANT) dBi] =4.45 dbi<6dbi
Limit=30 dBm

11. Out Of Band Emissions

11.1 Block Diagram Of Test Setup



11.2 Limit

According to FCC §15.407(b)
Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(2) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

11.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data

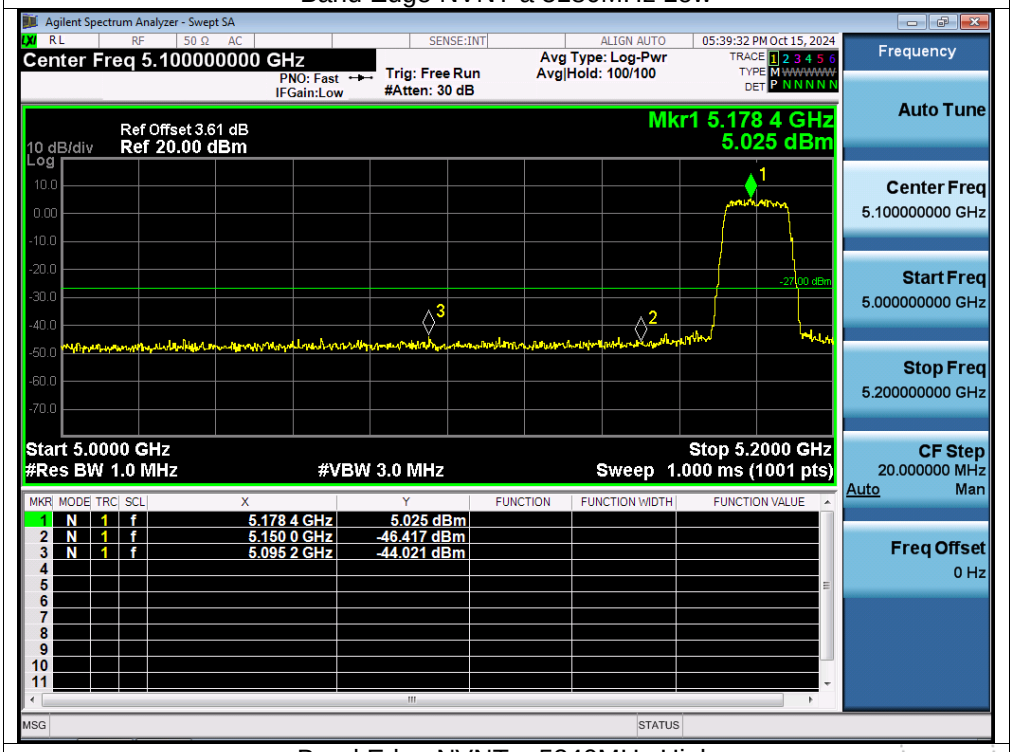
11.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	AC 120V/60HZ

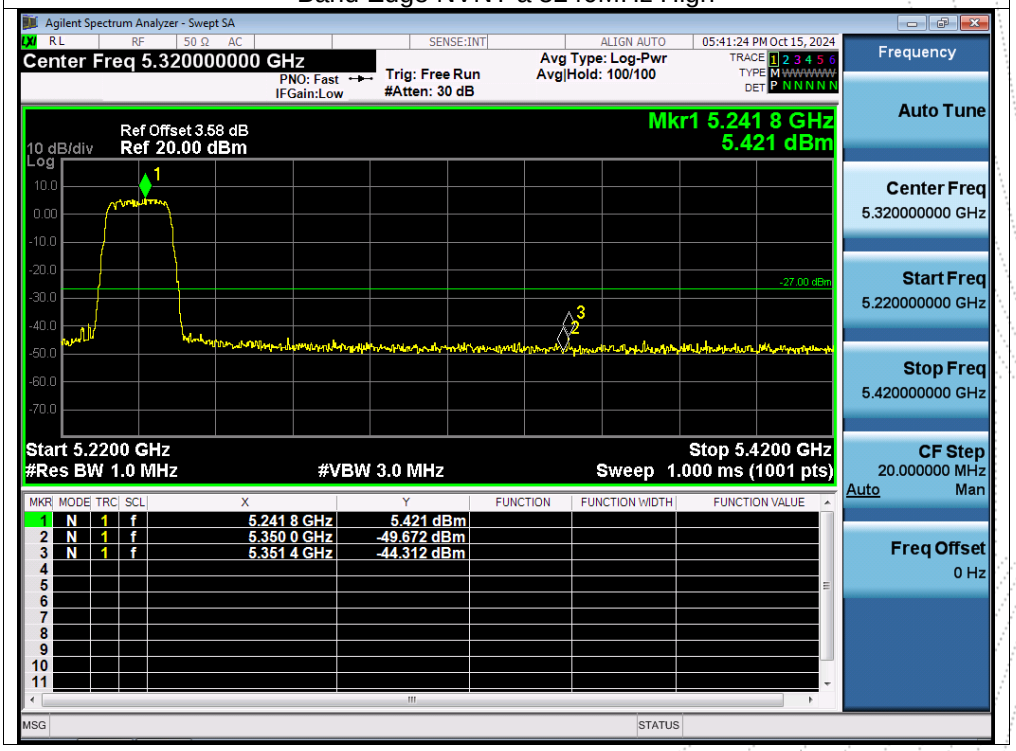
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot. 5180-5240MHz

Test Graphs

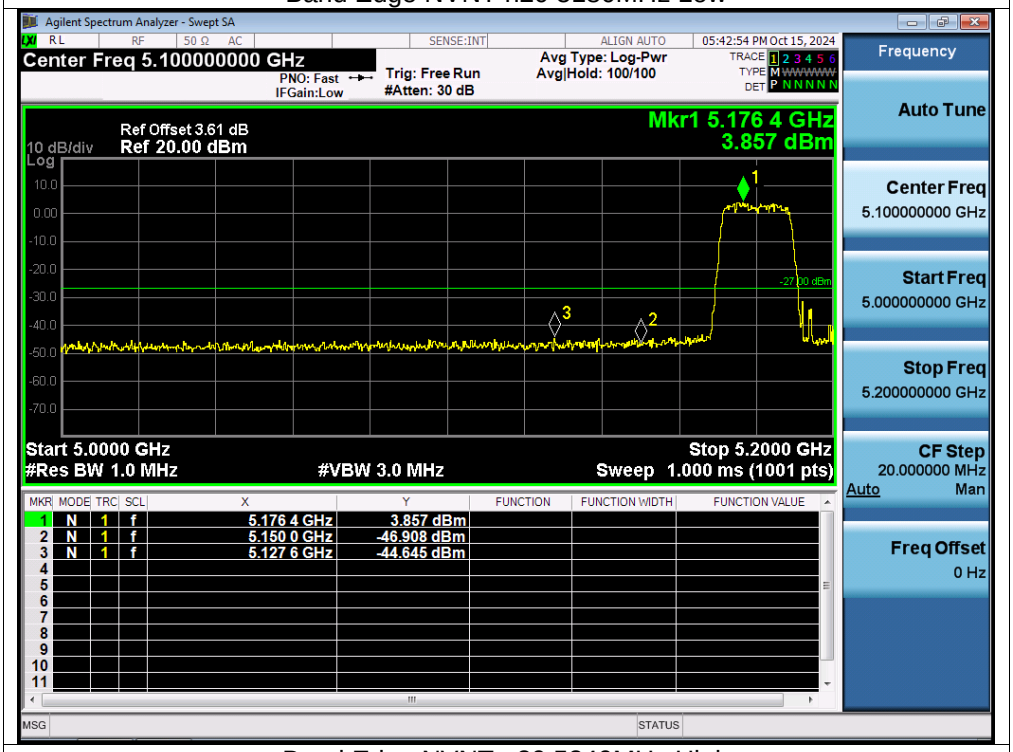
Band Edge NVNT a 5180MHz Low



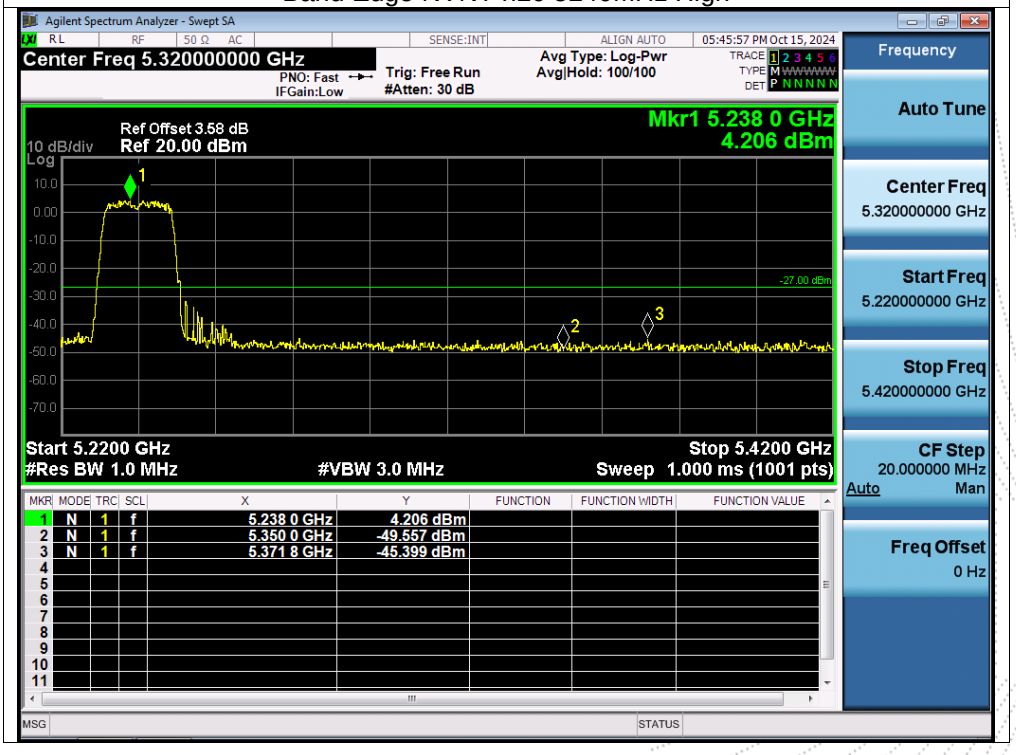
Band Edge NVNT a 5240MHz High



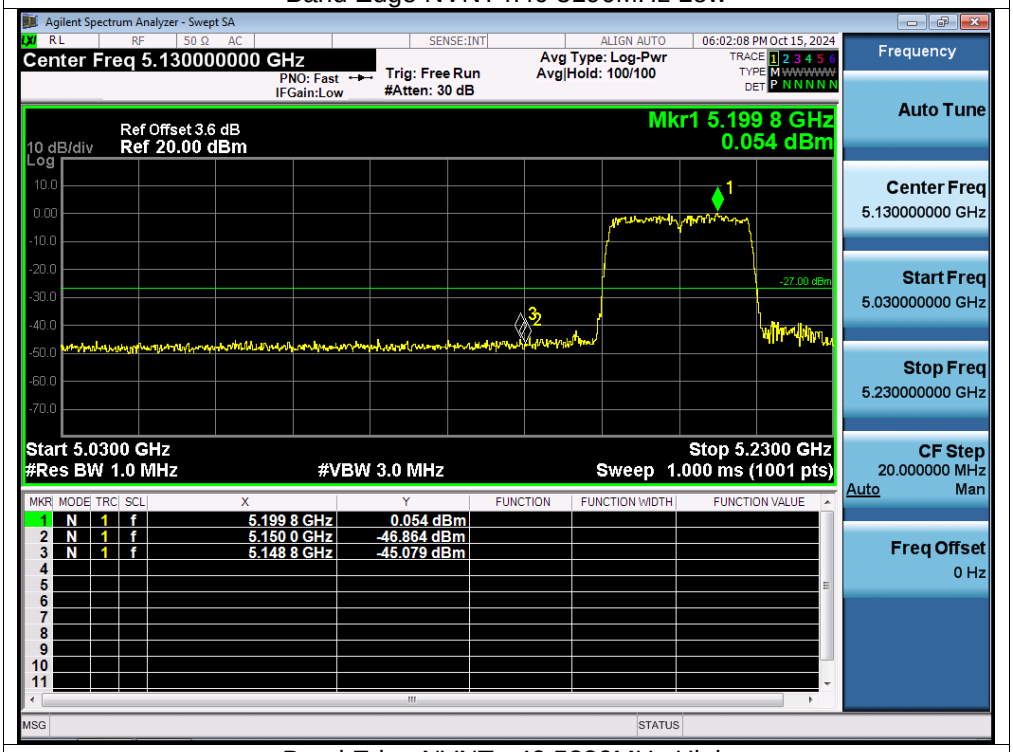
Band Edge NVNT n20 5180MHz Low



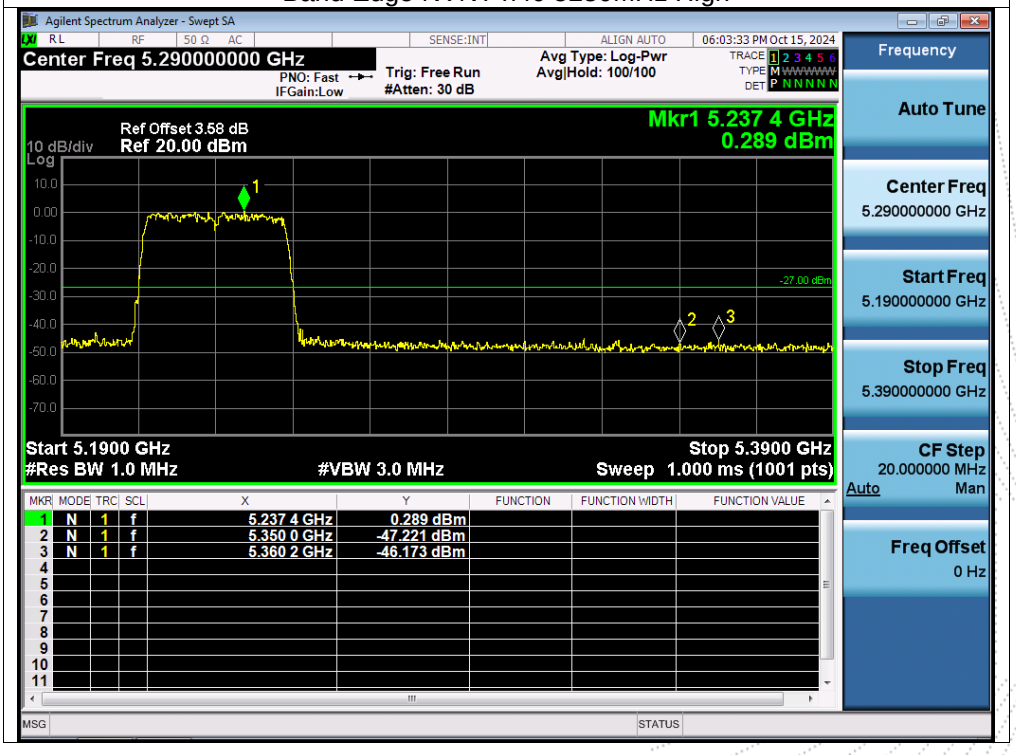
Band Edge NVNT n20 5240MHz High



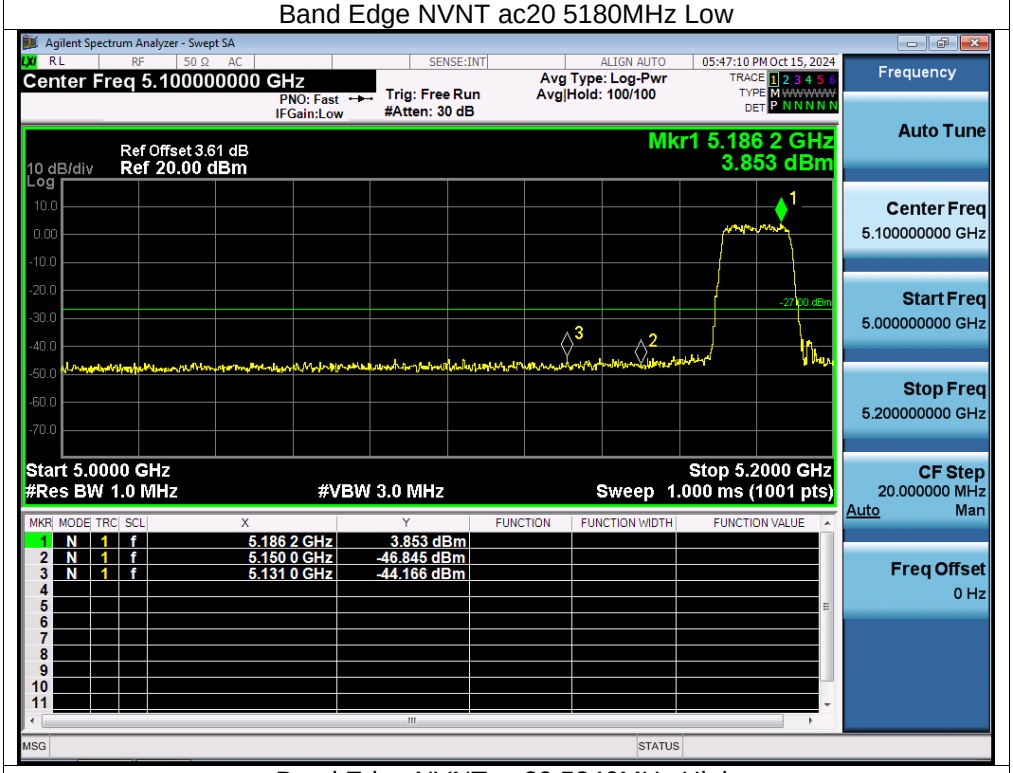
Band Edge NVNT n40 5190MHz Low



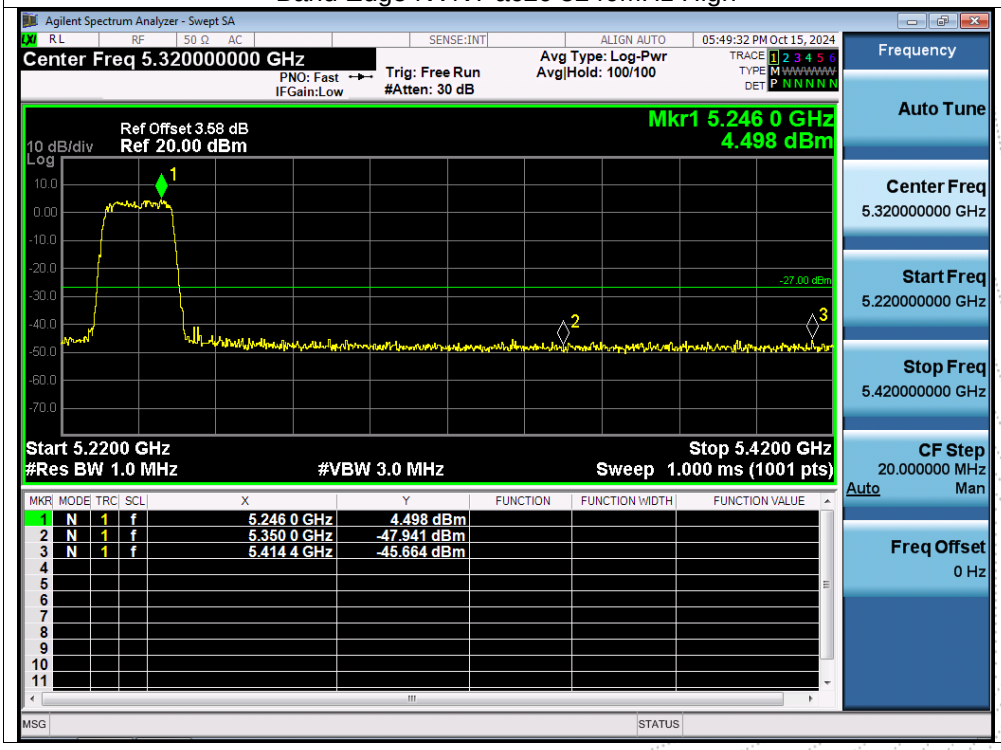
Band Edge NVNT n40 5230MHz High



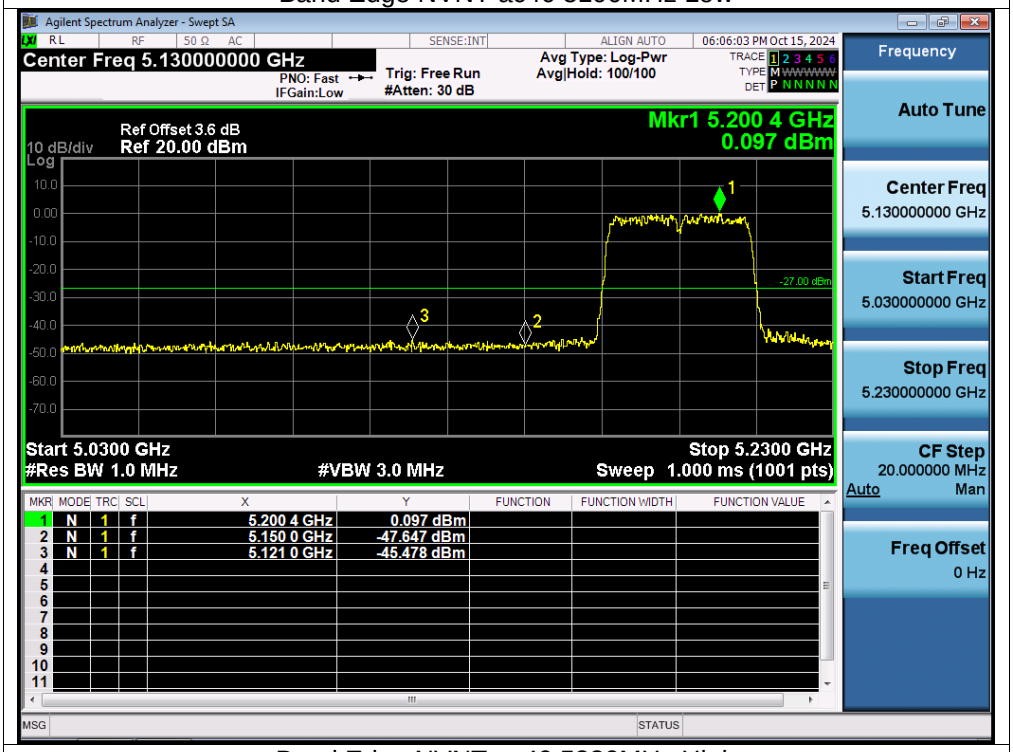
Band Edge NVNT ac20 5180MHz Low



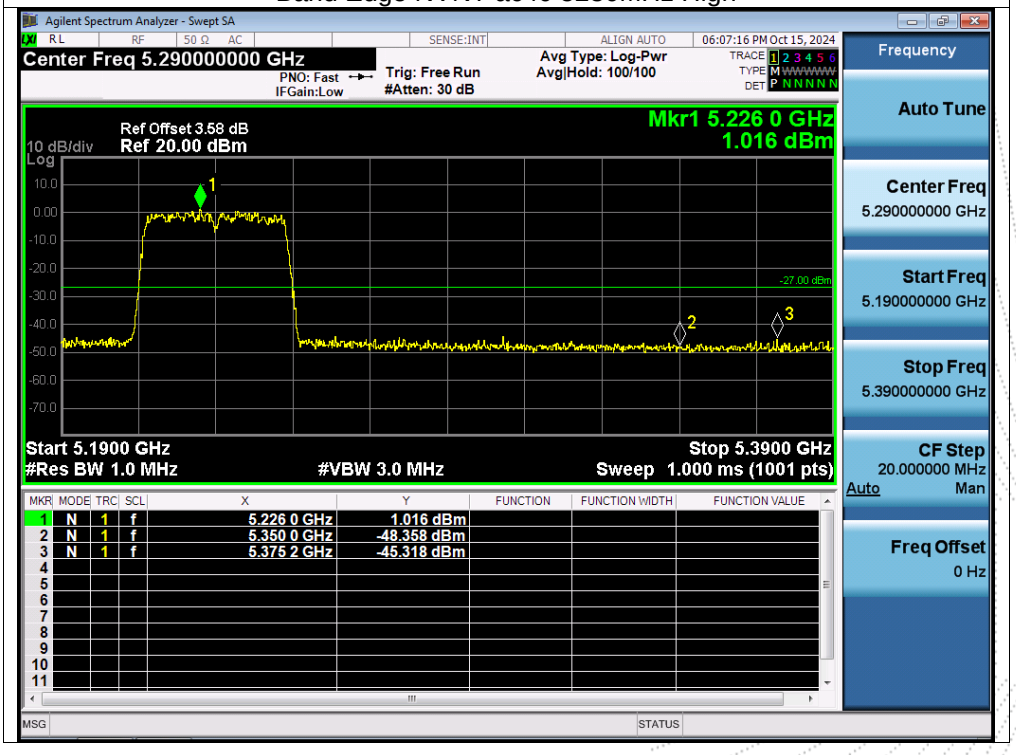
Band Edge NVNT ac20 5240MHz High



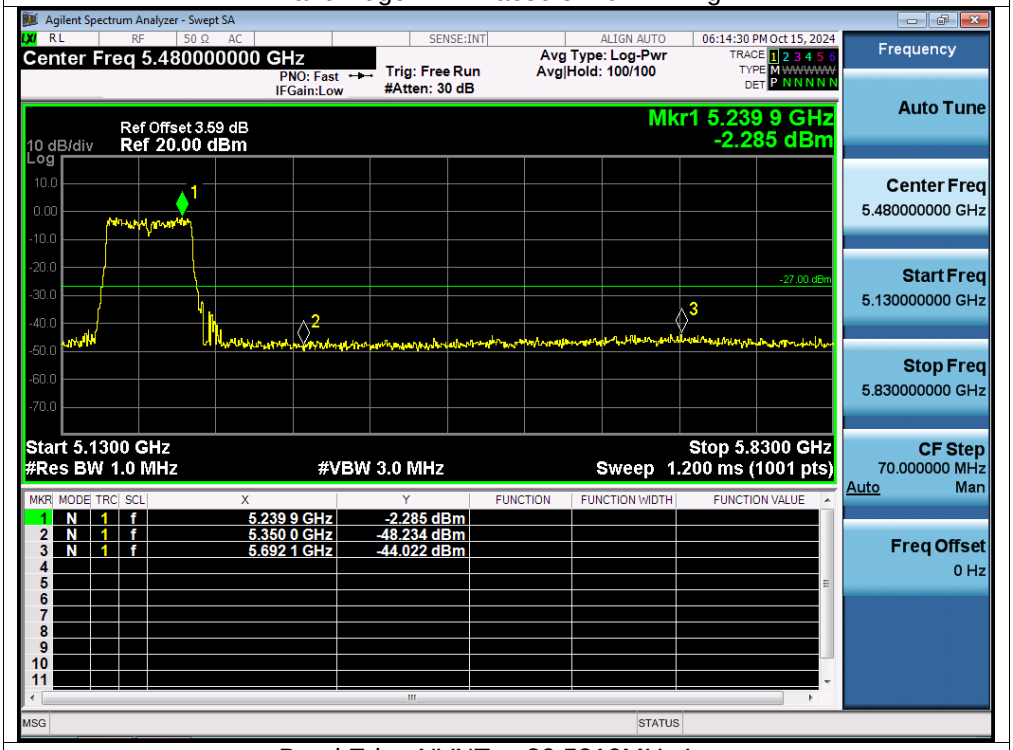
Band Edge NVNT ac40 5190MHz Low



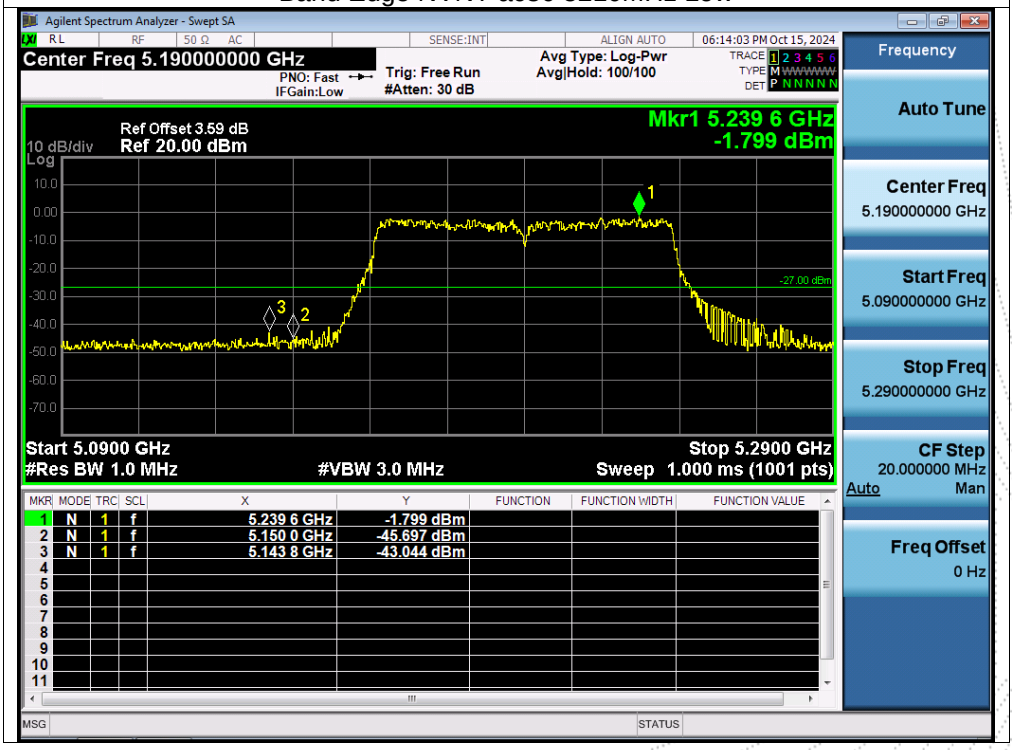
Band Edge NVNT ac40 5230MHz High



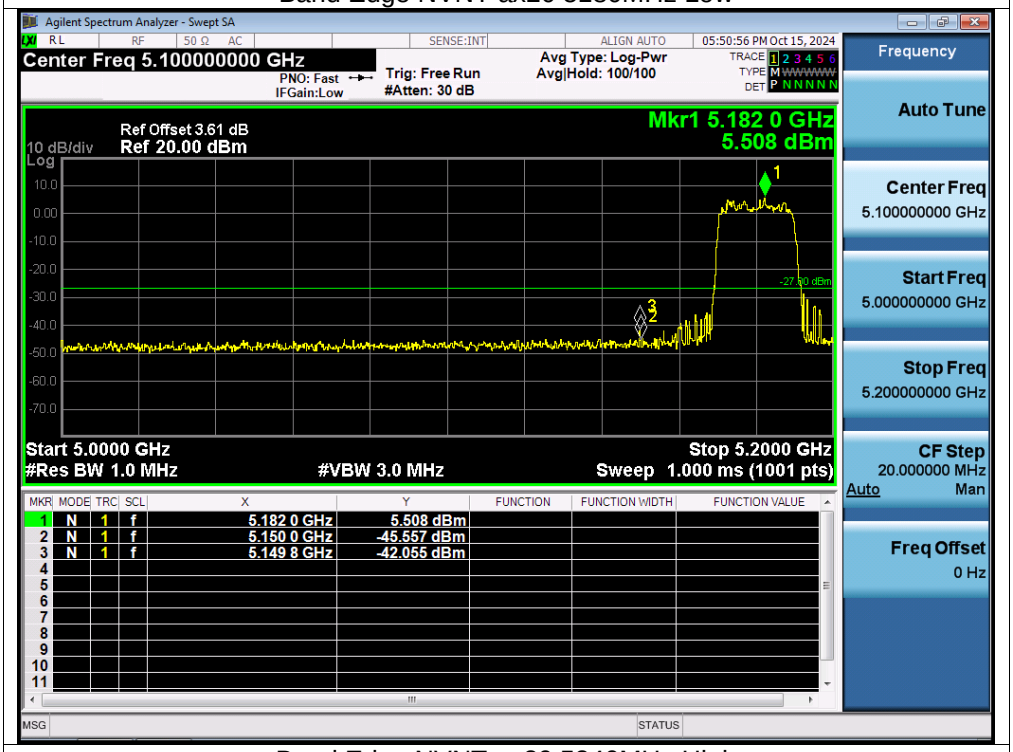
Band Edge NVNT ac80 5210MHz High



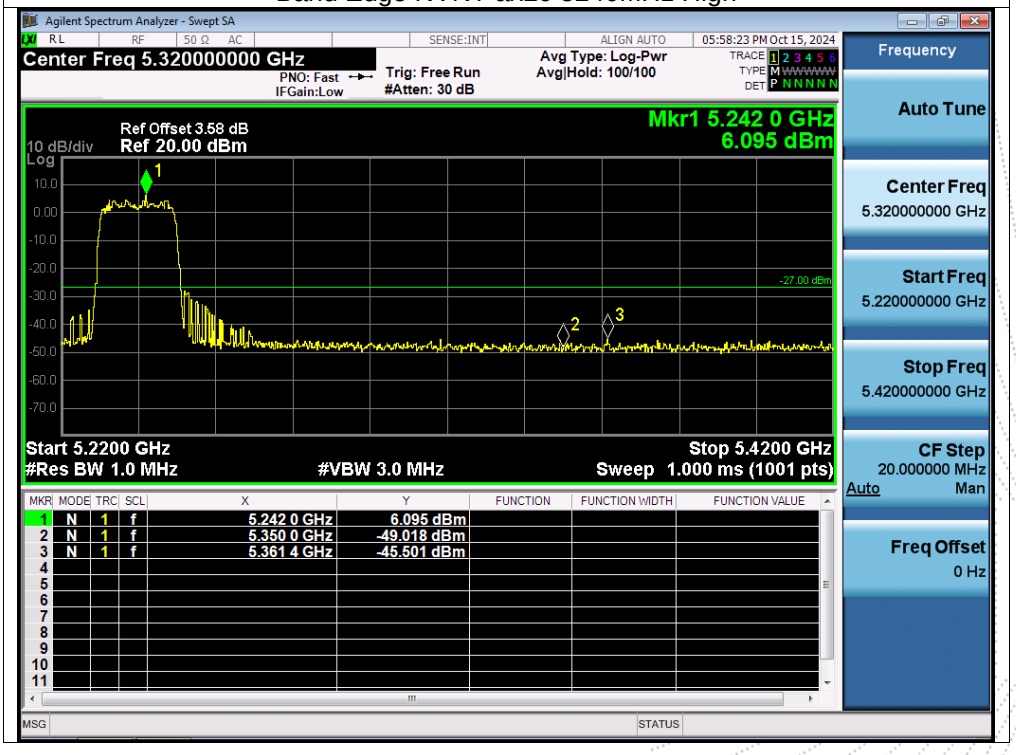
Band Edge NVNT ac80 5210MHz Low



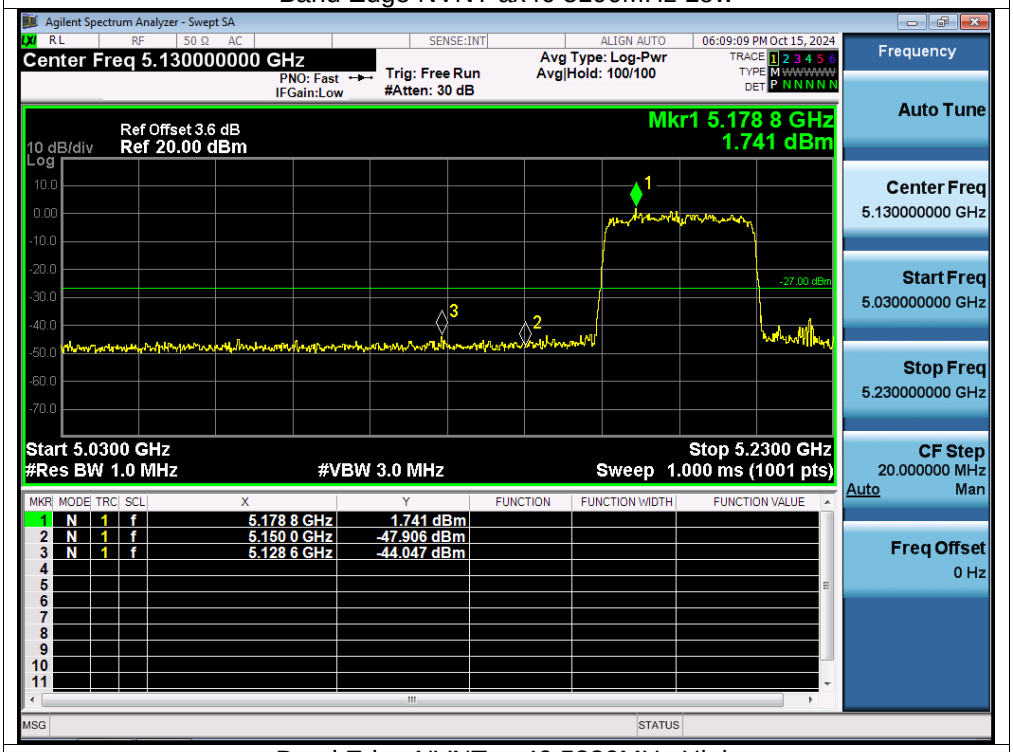
Band Edge NVNT ax20 5180MHz Low



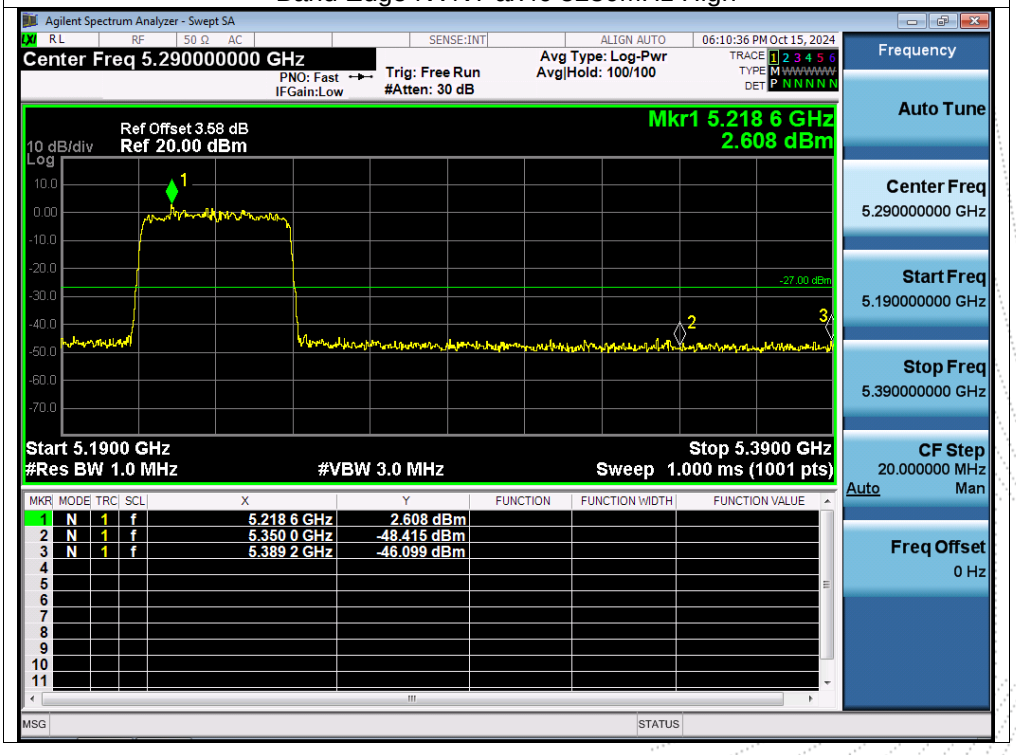
Band Edge NVNT ax20 5240MHz High



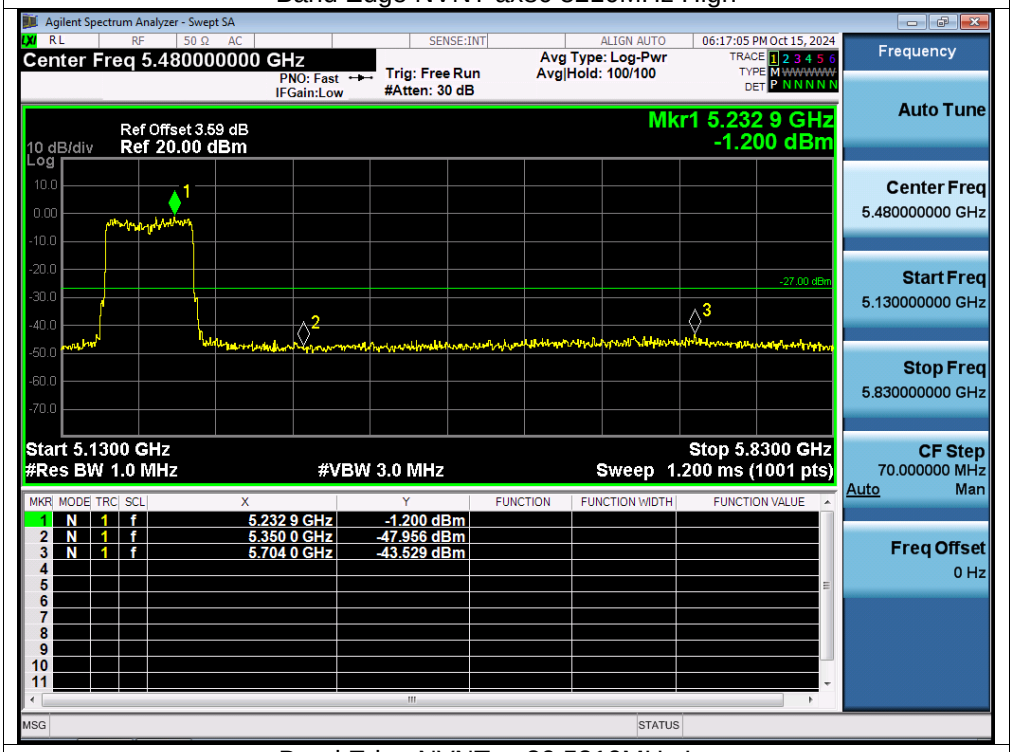
Band Edge NVNT ax40 5190MHz Low



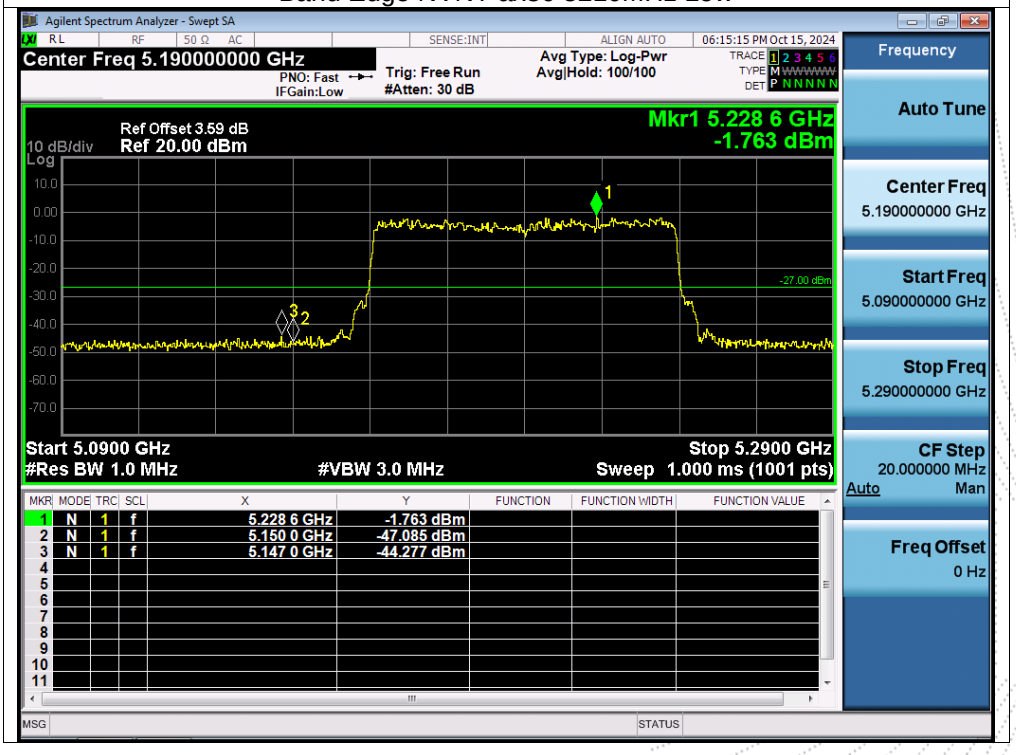
Band Edge NVNT ax40 5230MHz High



Band Edge NVNT ax80 5210MHz High



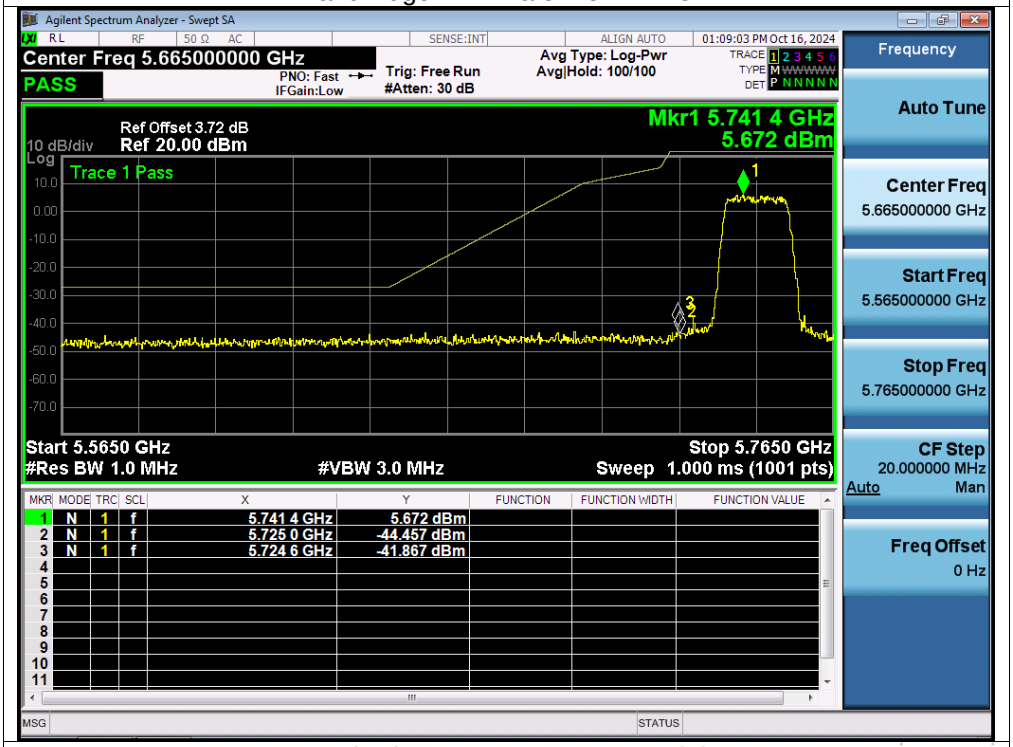
Band Edge NVNT ax80 5210MHz Low



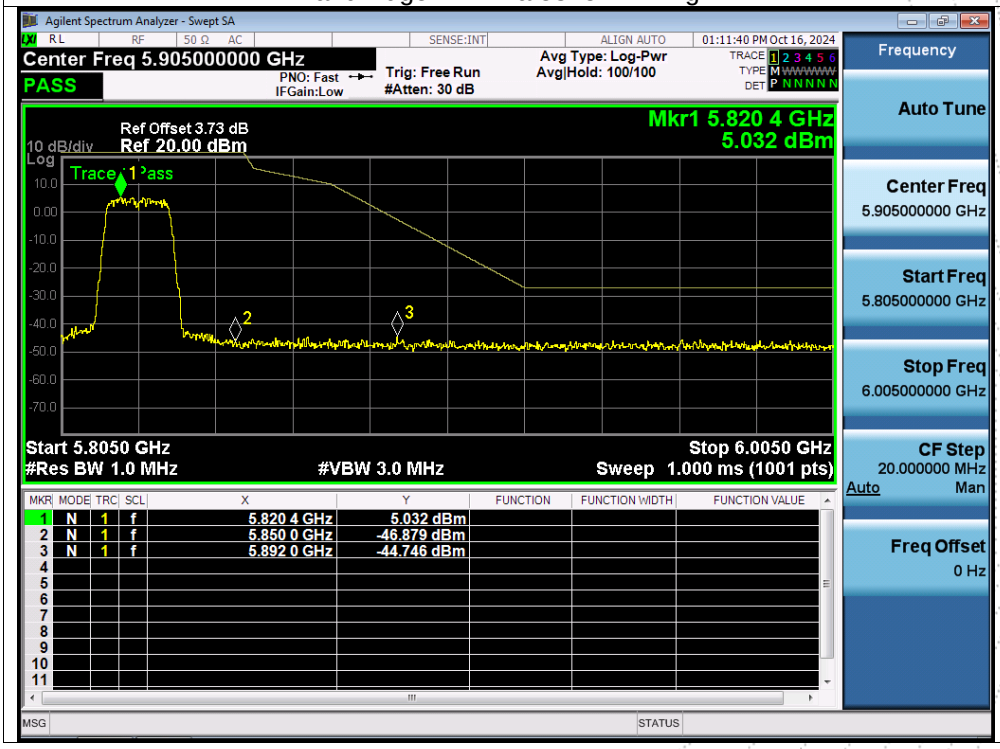
Note: A(B) Represent the value of antenna A and B. The worst data is Antenna A, only shown Antenna A Plot. 5745-58250MHz

Test Graphs

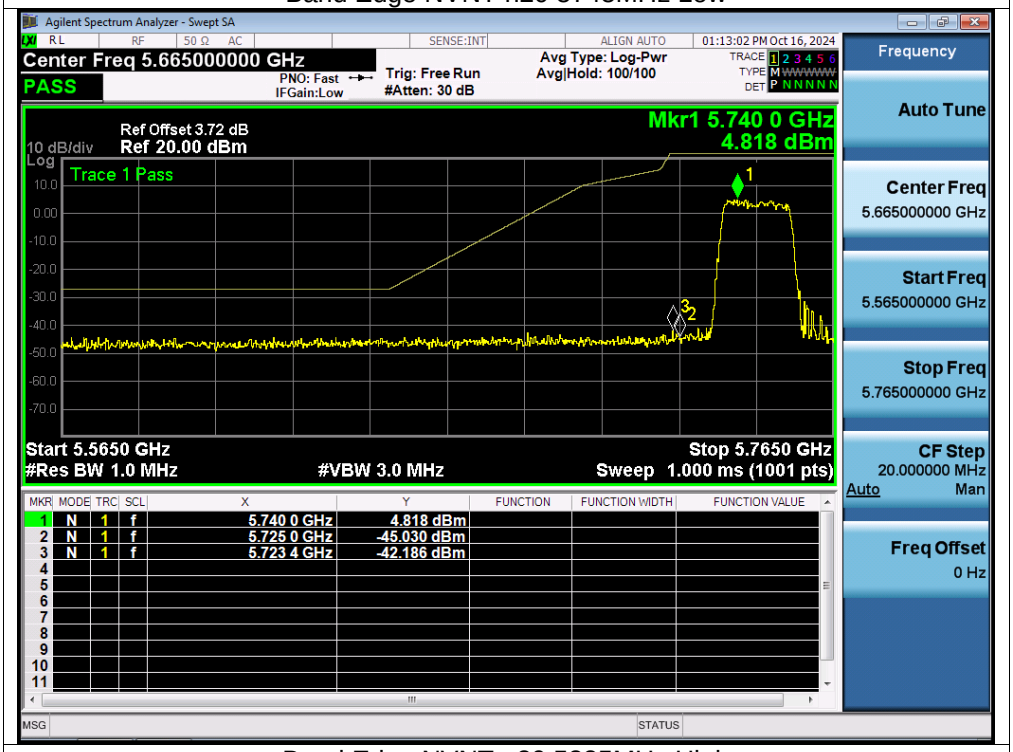
Band Edge NVNT a 5745MHz Low



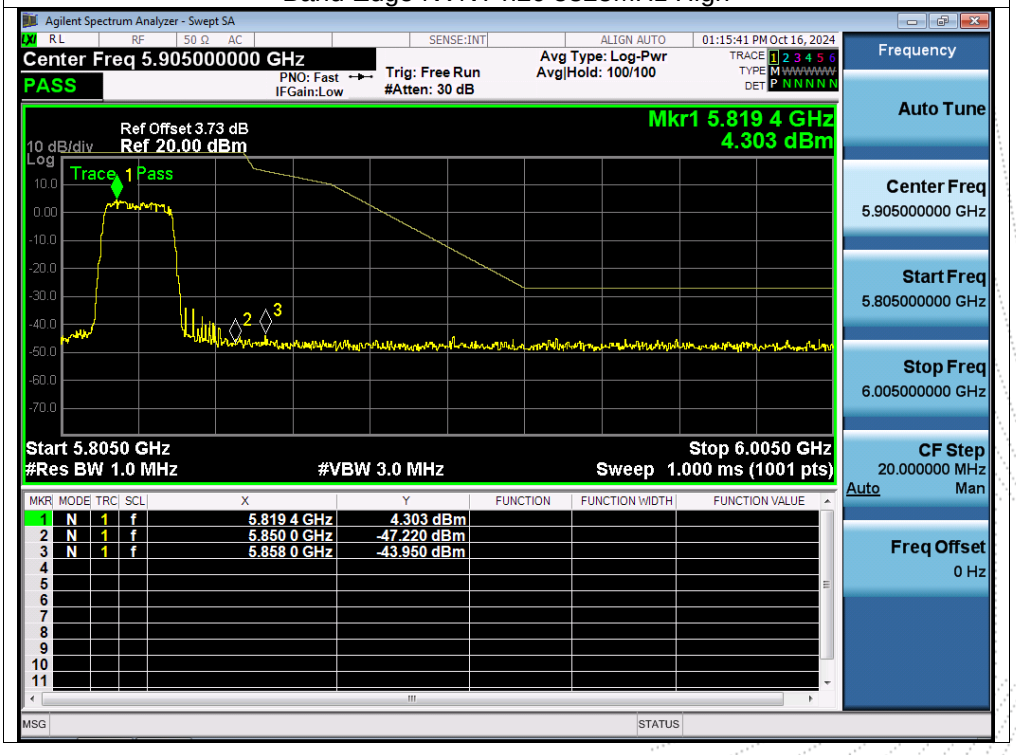
Band Edge NVNT a 5825MHz High



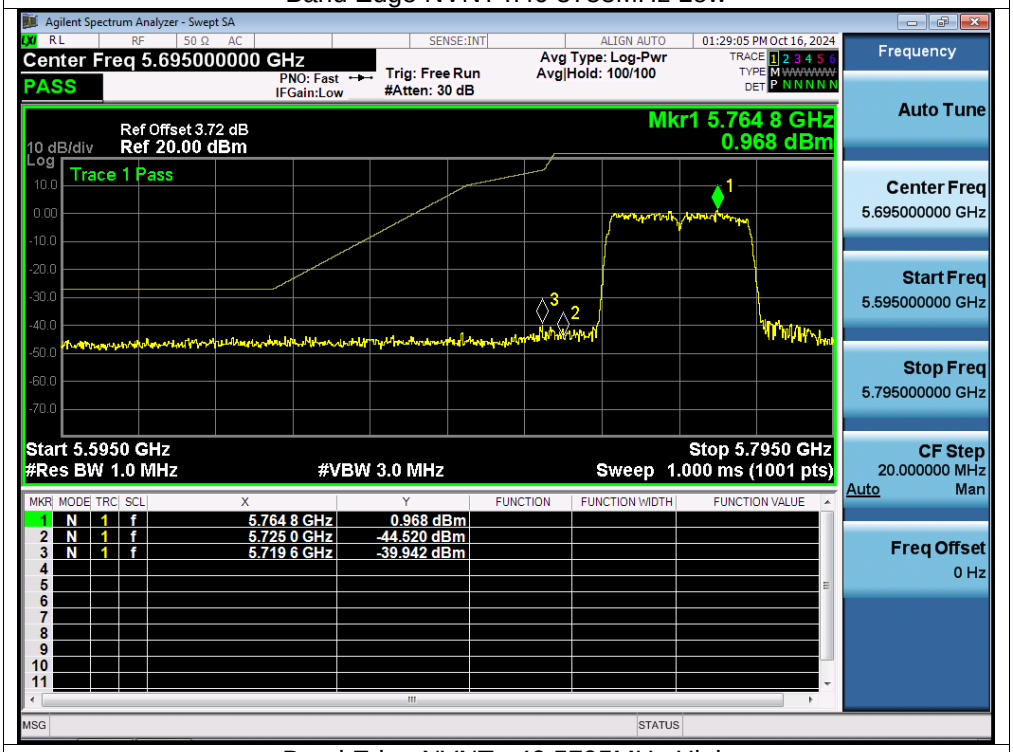
Band Edge NVNT n20 5745MHz Low



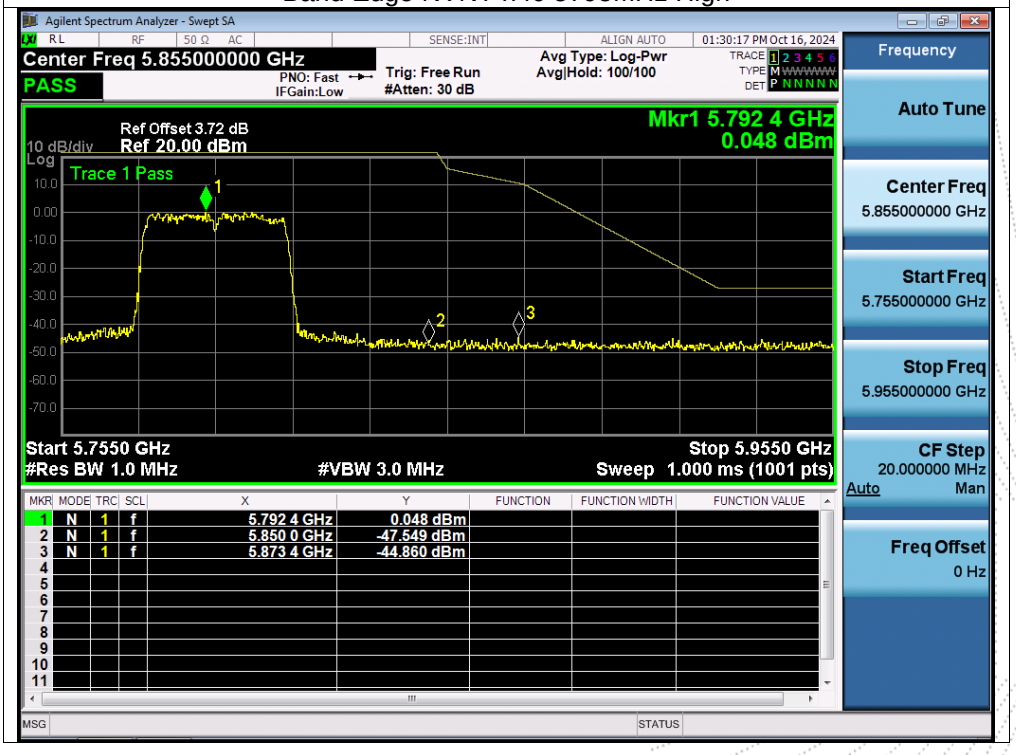
Band Edge NVNT n20 5825MHz High



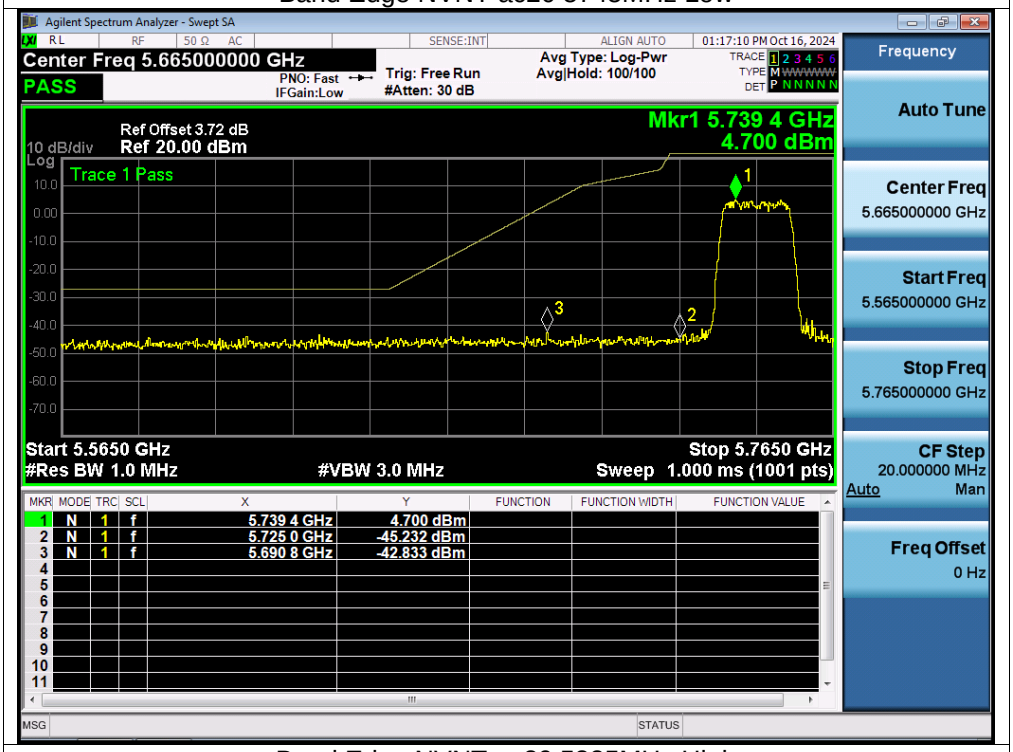
Band Edge NVNT n40 5755MHz Low



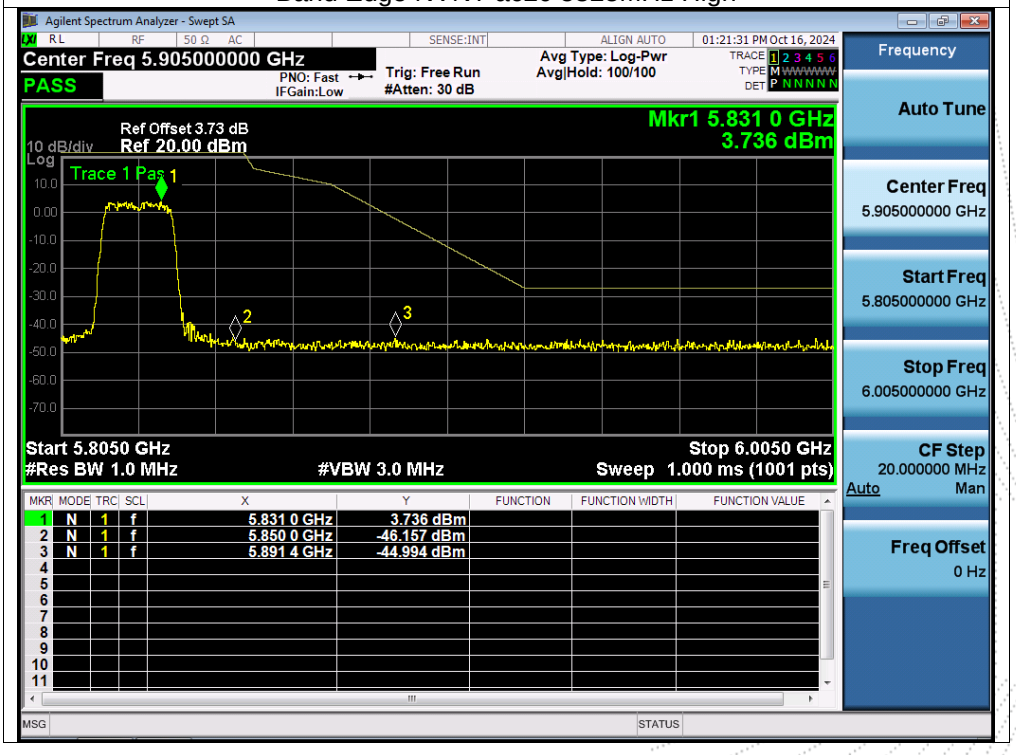
Band Edge NVNT n40 5795MHz High



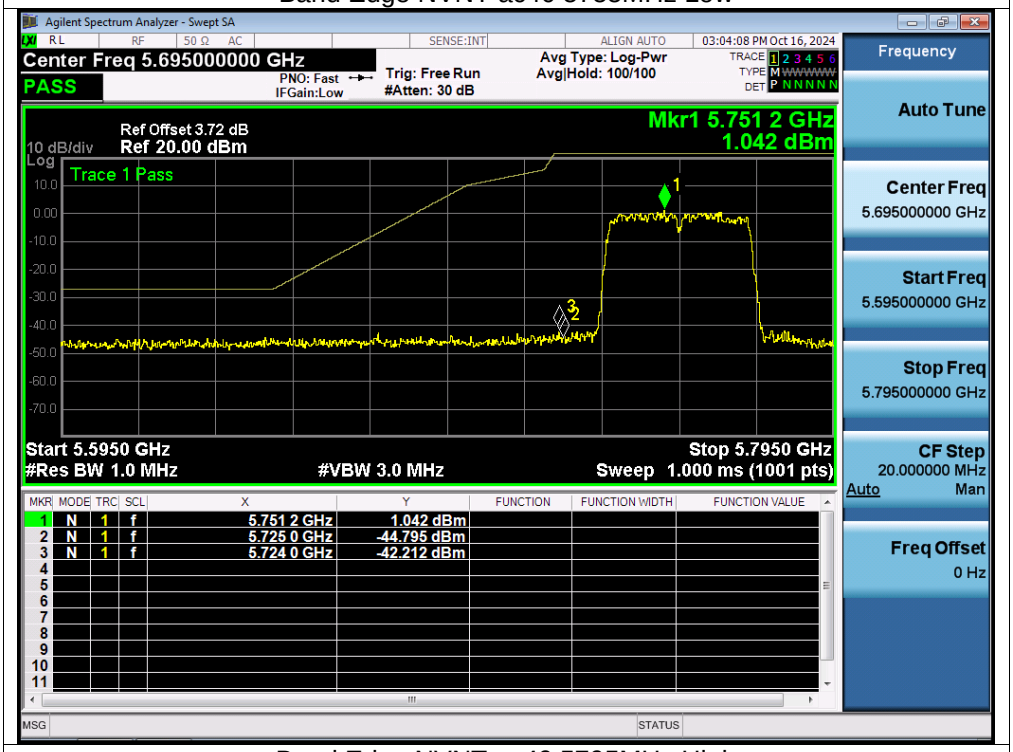
Band Edge NVNT ac20 5745MHz Low



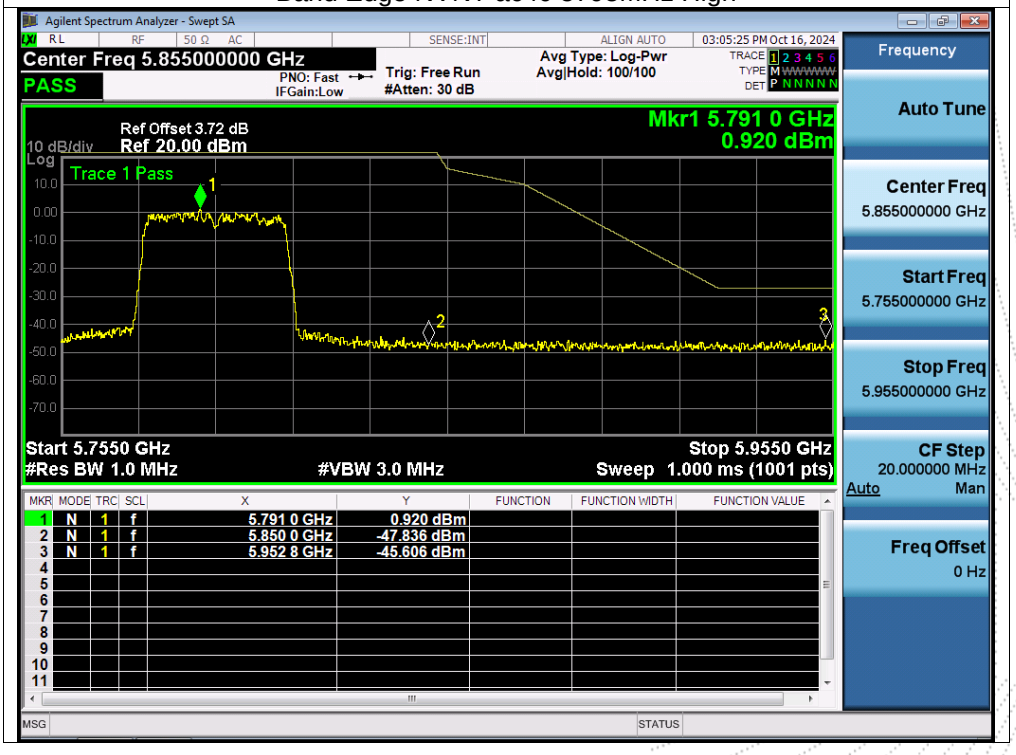
Band Edge NVNT ac20 5825MHz High



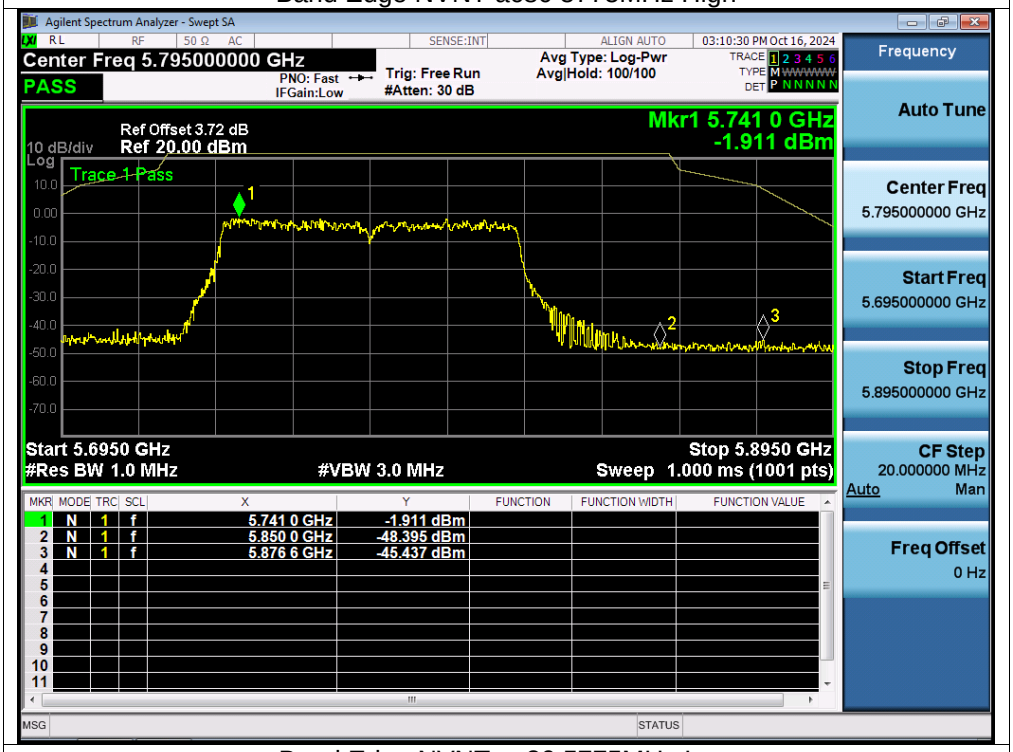
Band Edge NVNT ac40 5755MHz Low



Band Edge NVNT ac40 5795MHz High

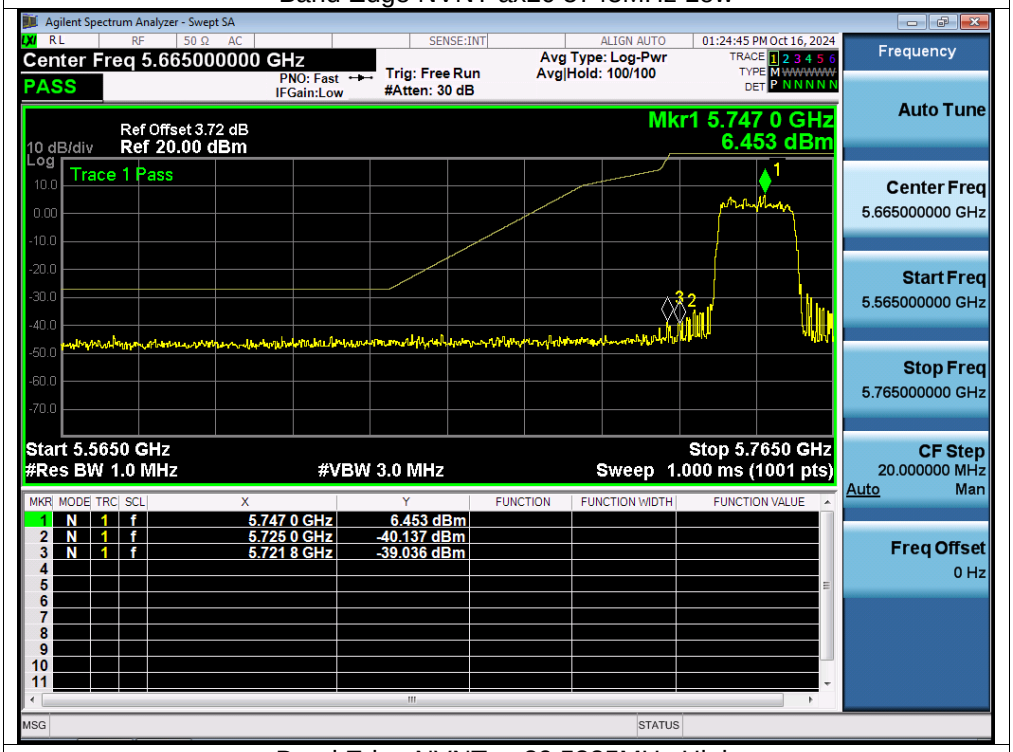


Band Edge NVNT ac80 5775MHz High

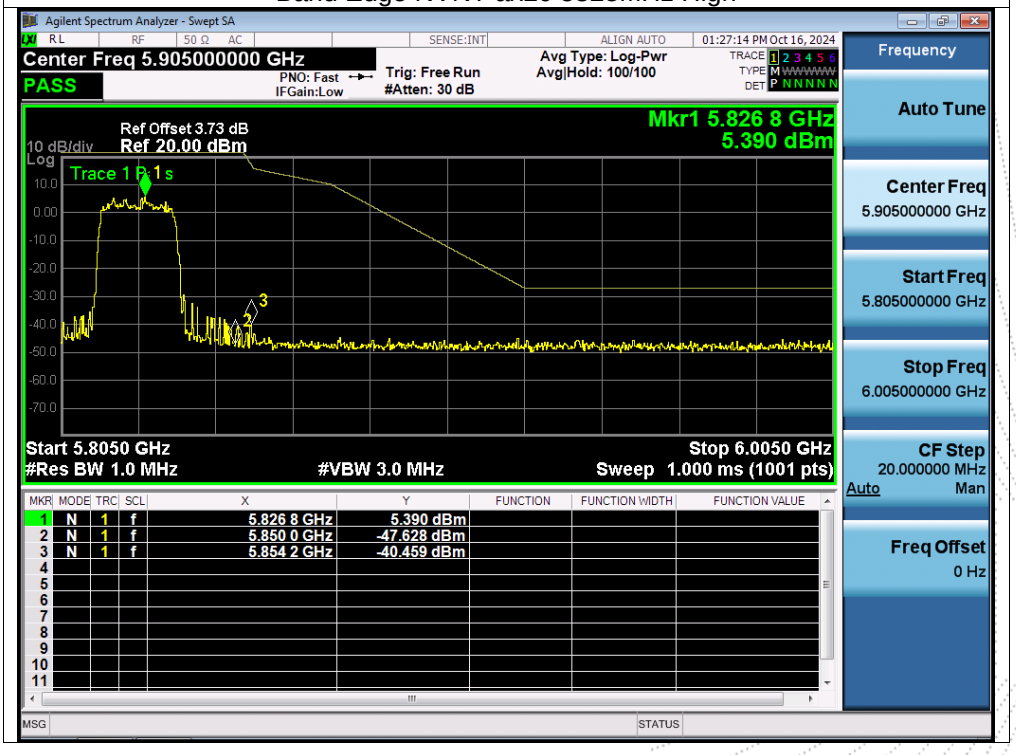


Band Edge NVNT ac80 5775MHz Low

Band Edge NVNT ax20 5745MHz Low

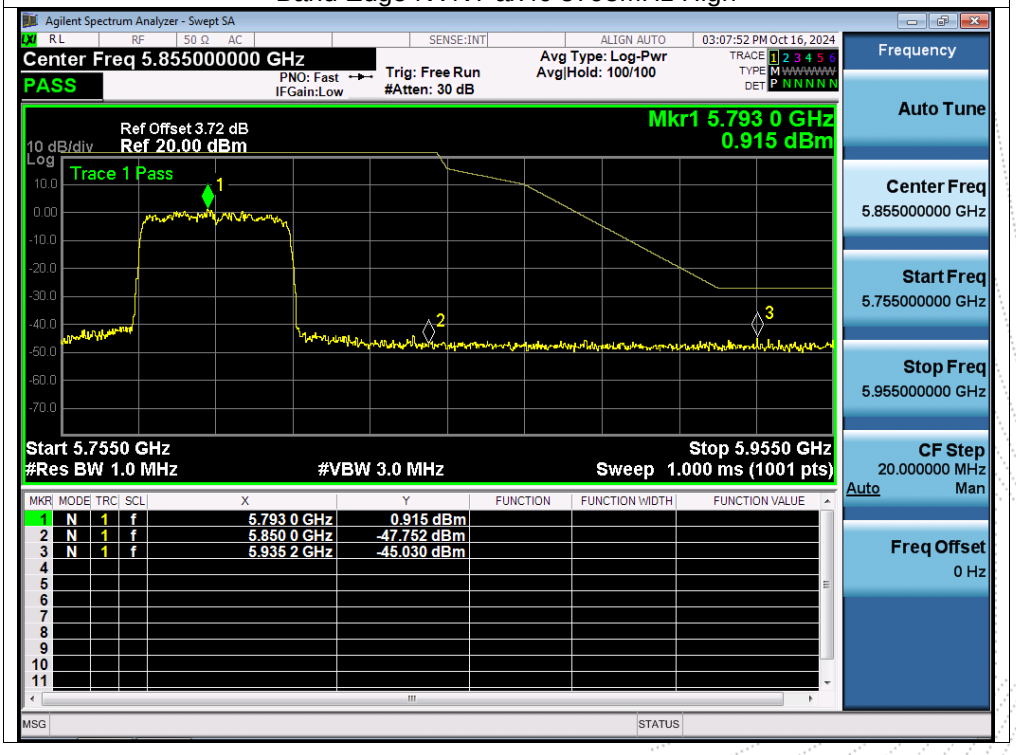


Band Edge NVNT ax20 5825MHz High

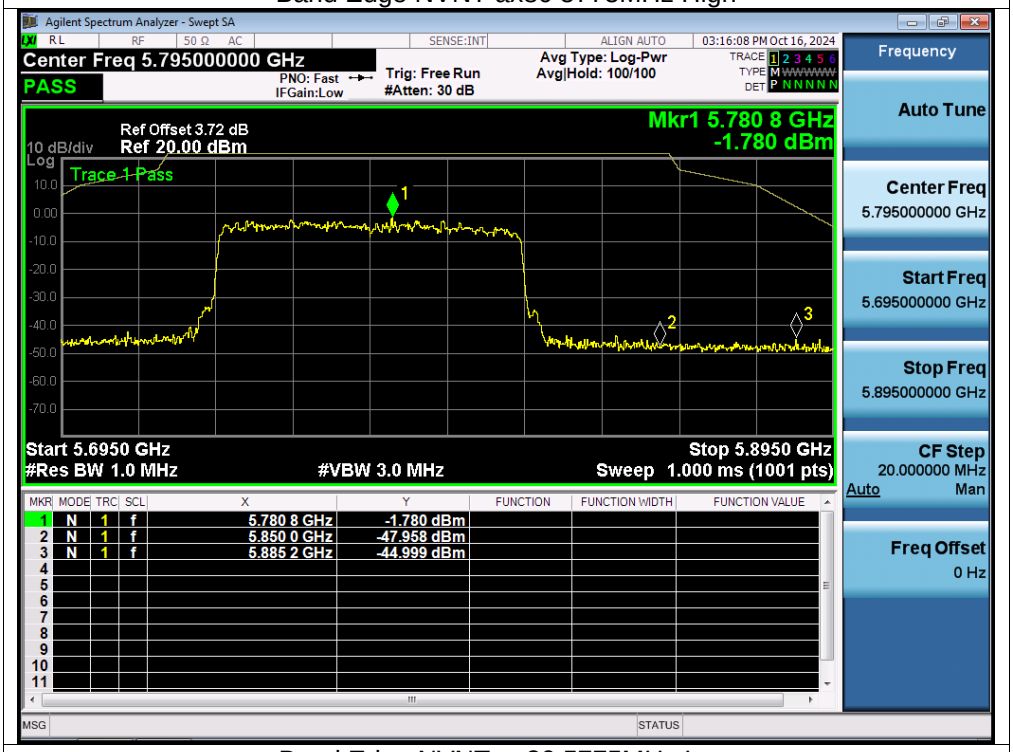


Band Edge NVNT ax40 5755MHz Low

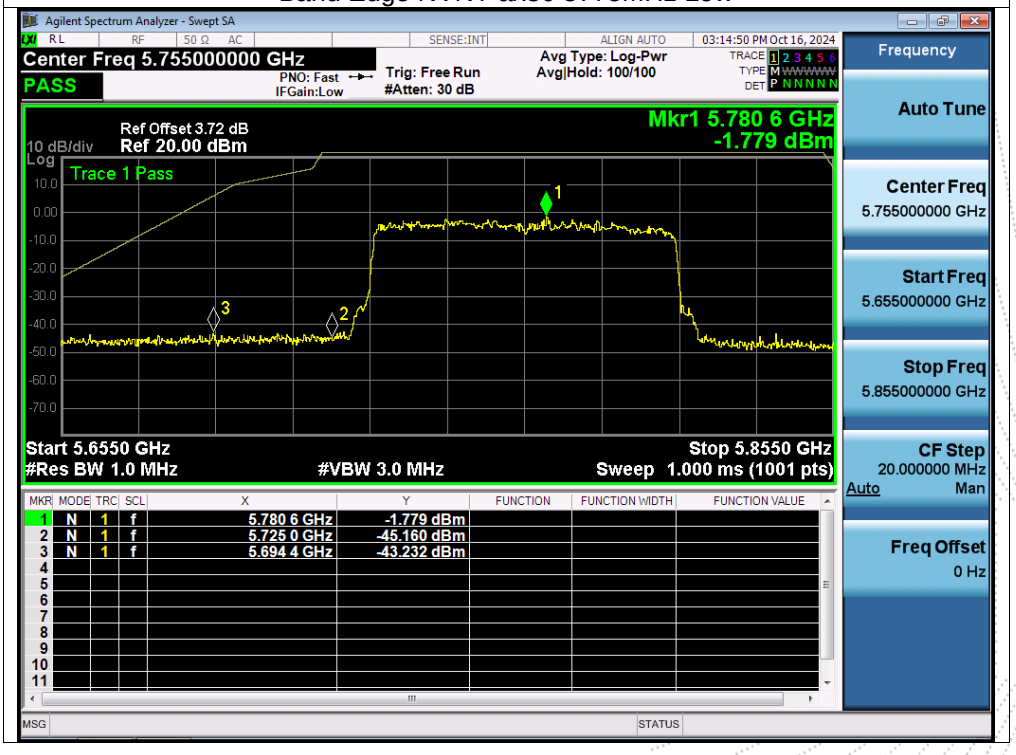
Band Edge NVNT ax40 5795MHz High



Band Edge NVNT ax80 5775MHz High

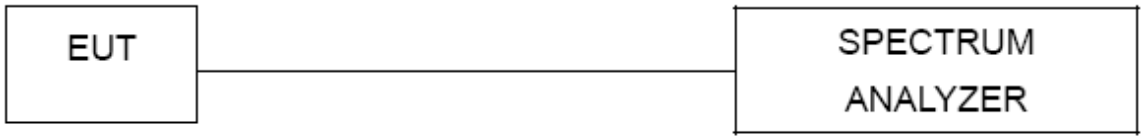


Band Edge NVNT ax80 5775MHz Low



12. Spurious RF Conducted Emissions

12.1 Block Diagram Of Test Setup



12.2 Limit

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
(1)For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(2)For transmitters operating in the 5.725-5.85 GHz band(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge..

12.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

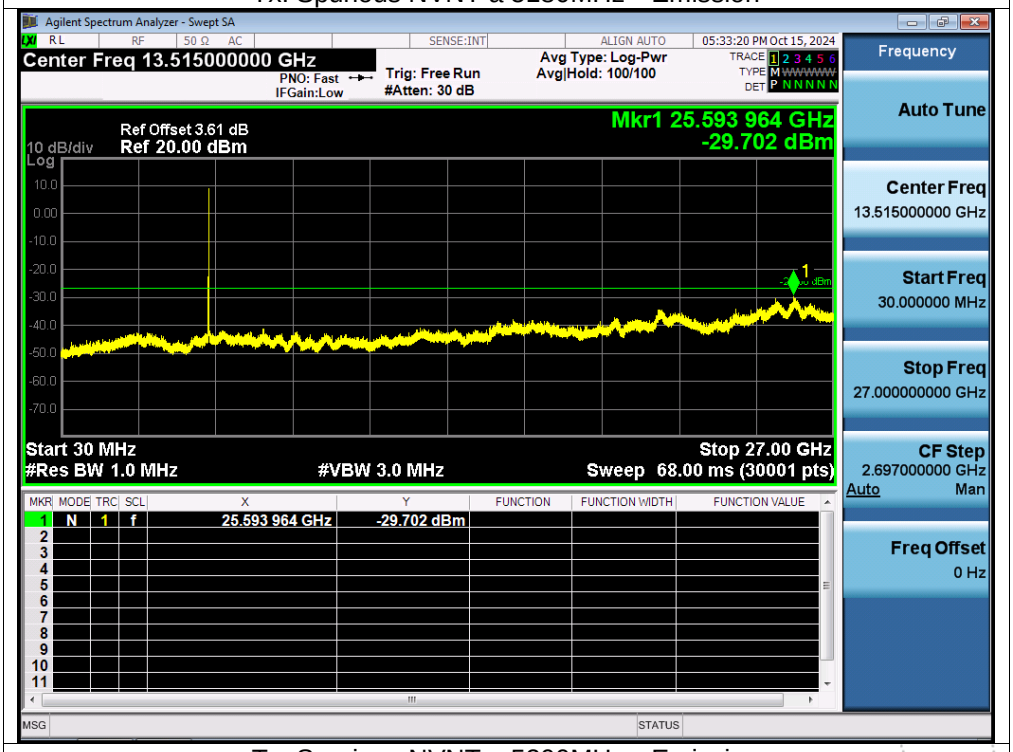
12.4 Test Result

Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and band edge measurement data.
About:26.5GHz-40GHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot. 5180-5240MHz

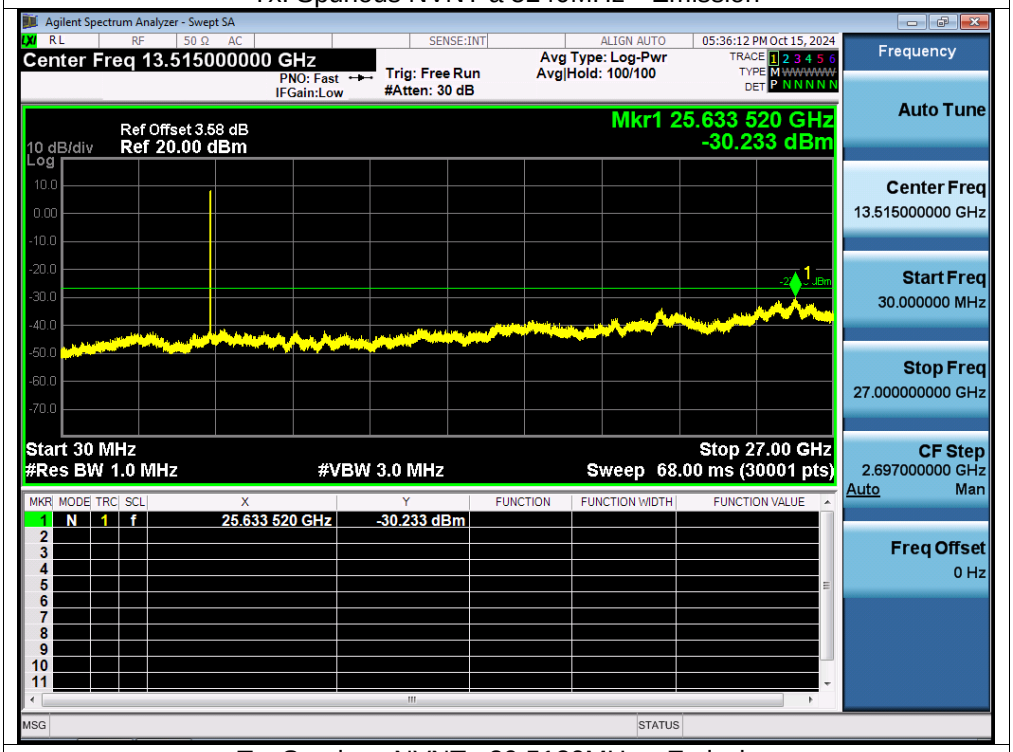
Test Graphs

Tx. Spurious NVNT a 5180MHz Emission

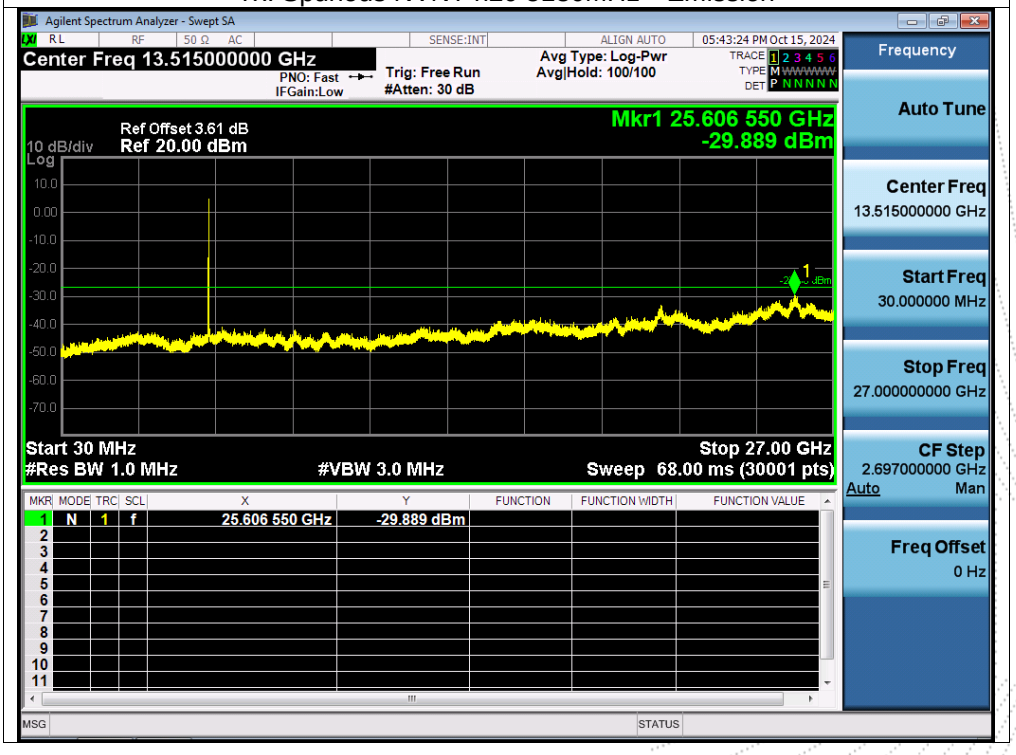


Tx. Spurious NVNT a 5200MHz Emission

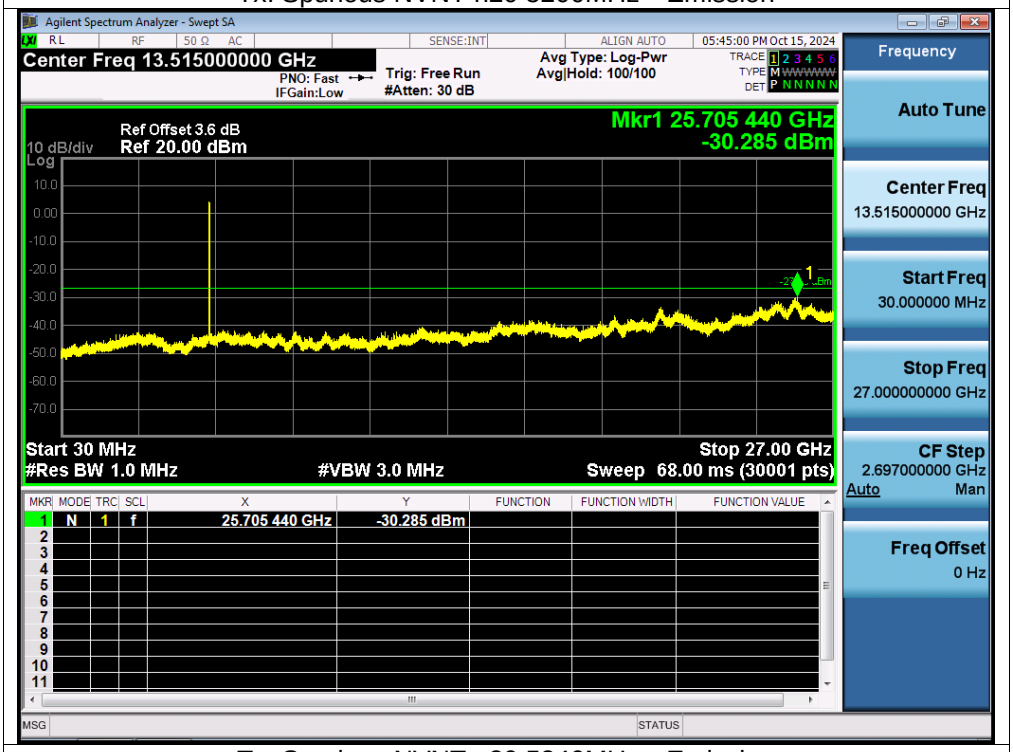
Tx. Spurious NVNT a 5240MHz Emission



Tx. Spurious NVNT n20 5180MHz Emission

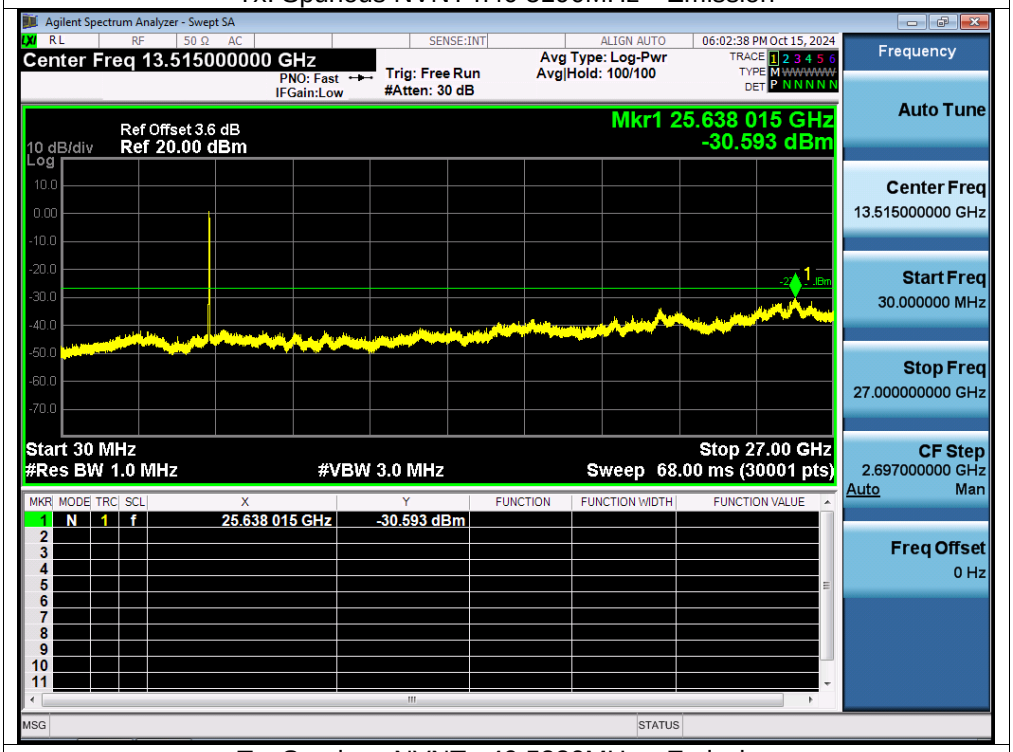


Tx. Spurious NVNT n20 5200MHz Emission



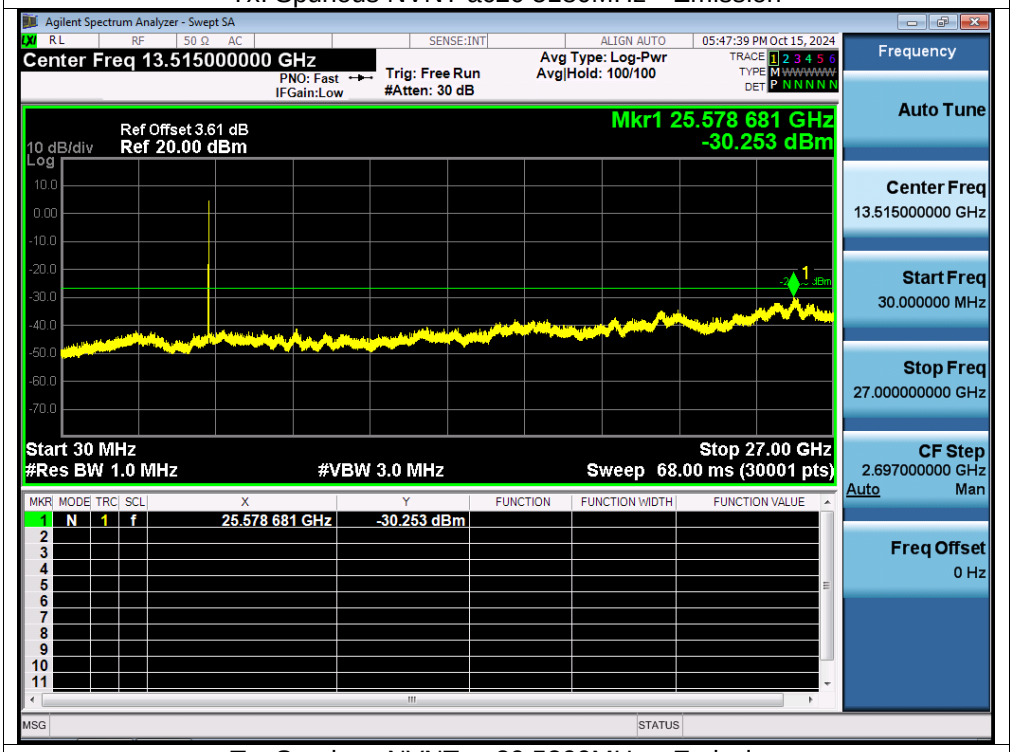
Tx. Spurious NVNT n20 5240MHz Emission

Tx. Spurious NVNT n40 5190MHz Emission



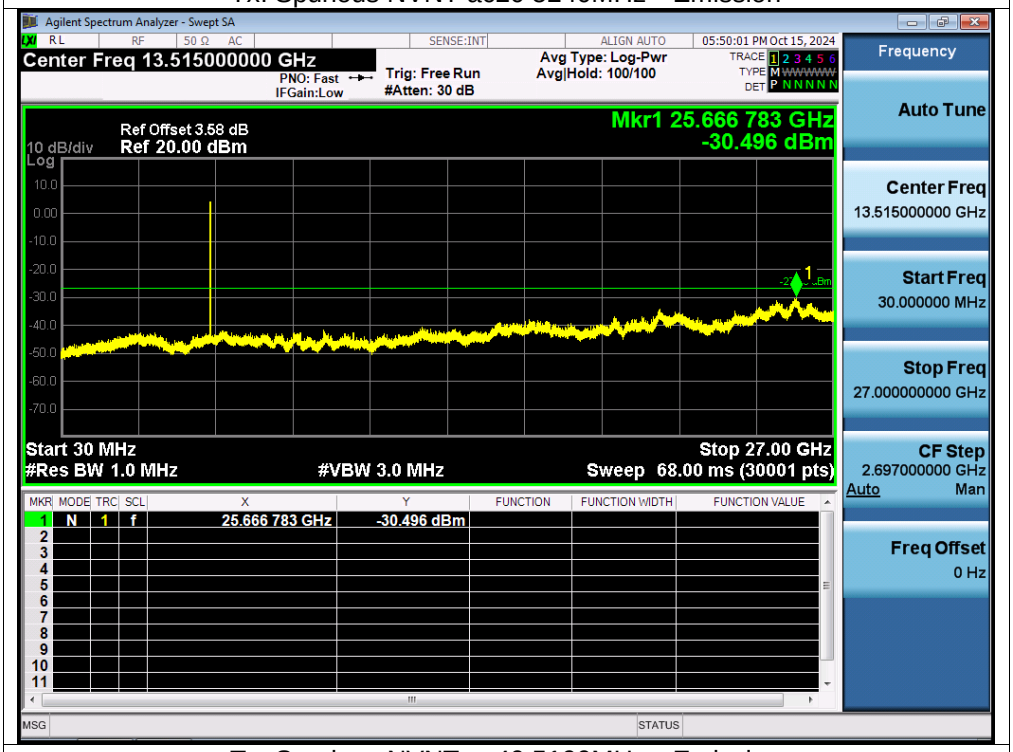
Tx. Spurious NVNT n40 5230MHz Emission

Tx. Spurious NVNT ac20 5180MHz Emission



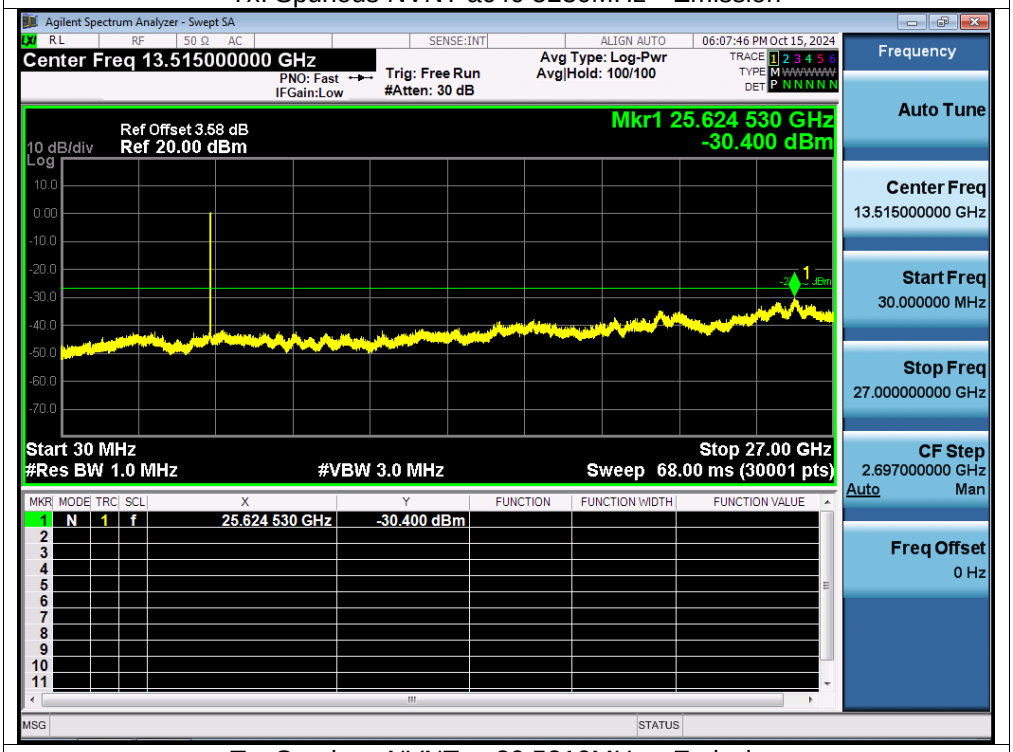
Tx. Spurious NVNT ac20 5200MHz Emission

Tx. Spurious NVNT ac20 5240MHz Emission

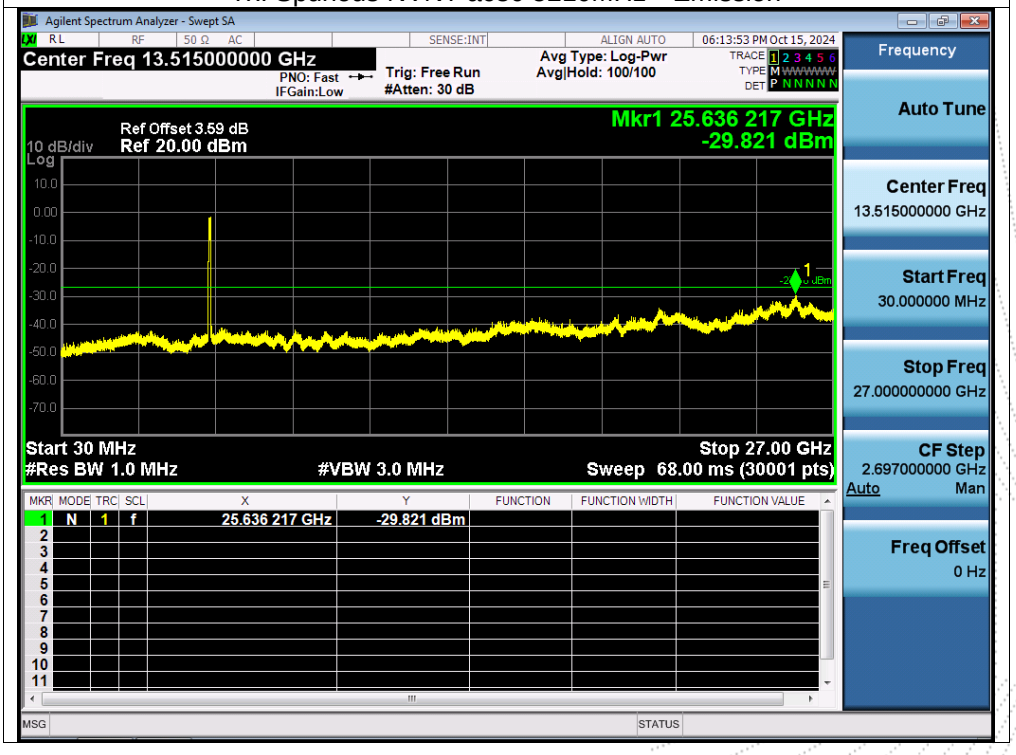


Tx. Spurious NVNT ac40 5190MHz Emission

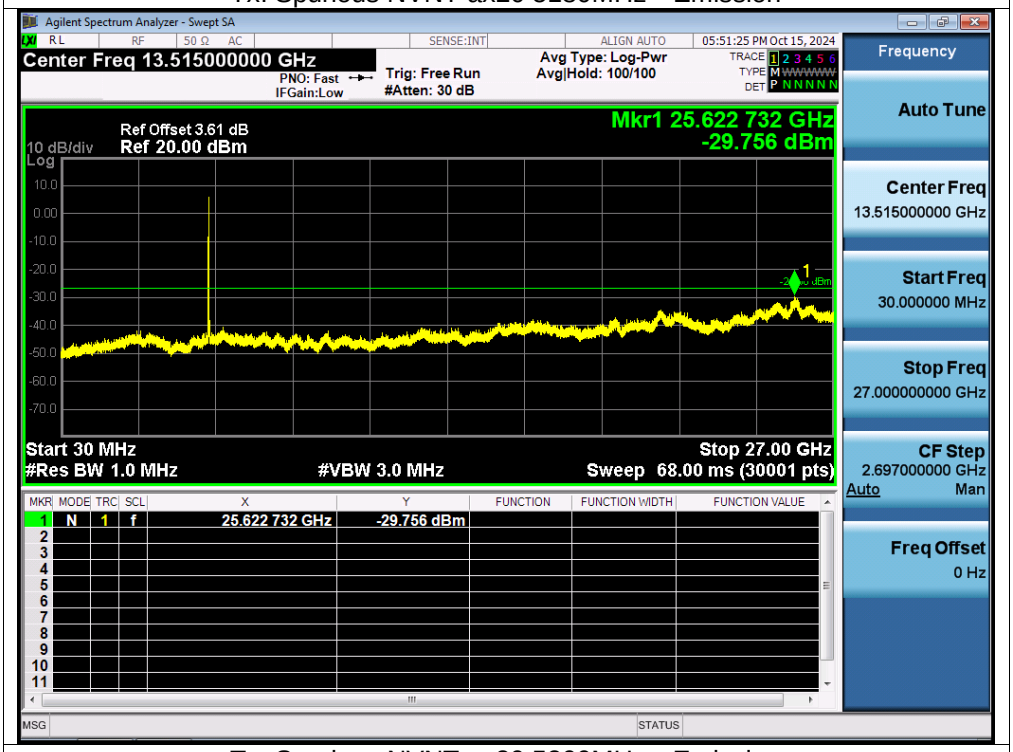
Tx. Spurious NVNT ac40 5230MHz Emission



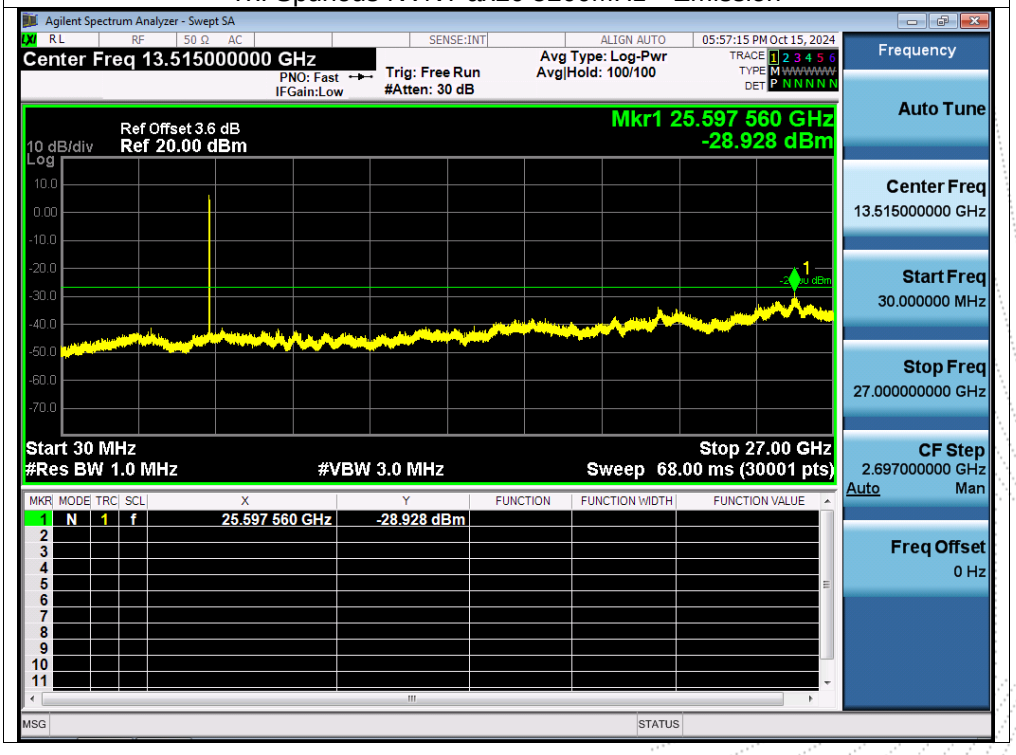
Tx. Spurious NVNT ac80 5210MHz Emission



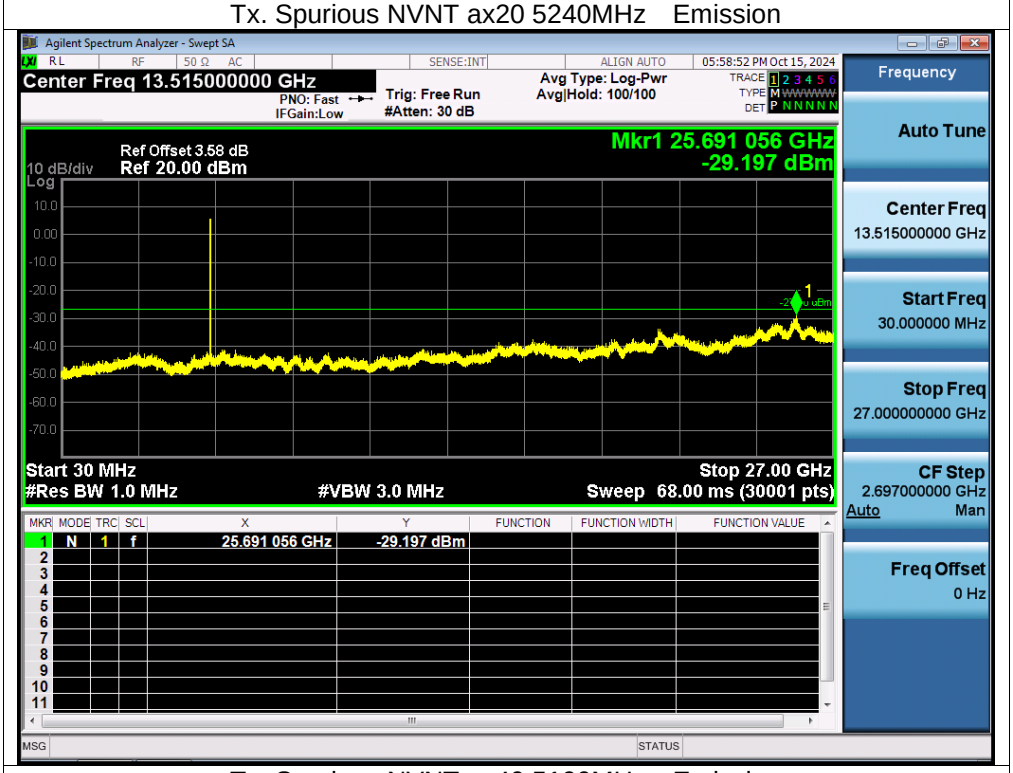
Tx. Spurious NVNT ax20 5180MHz Emission



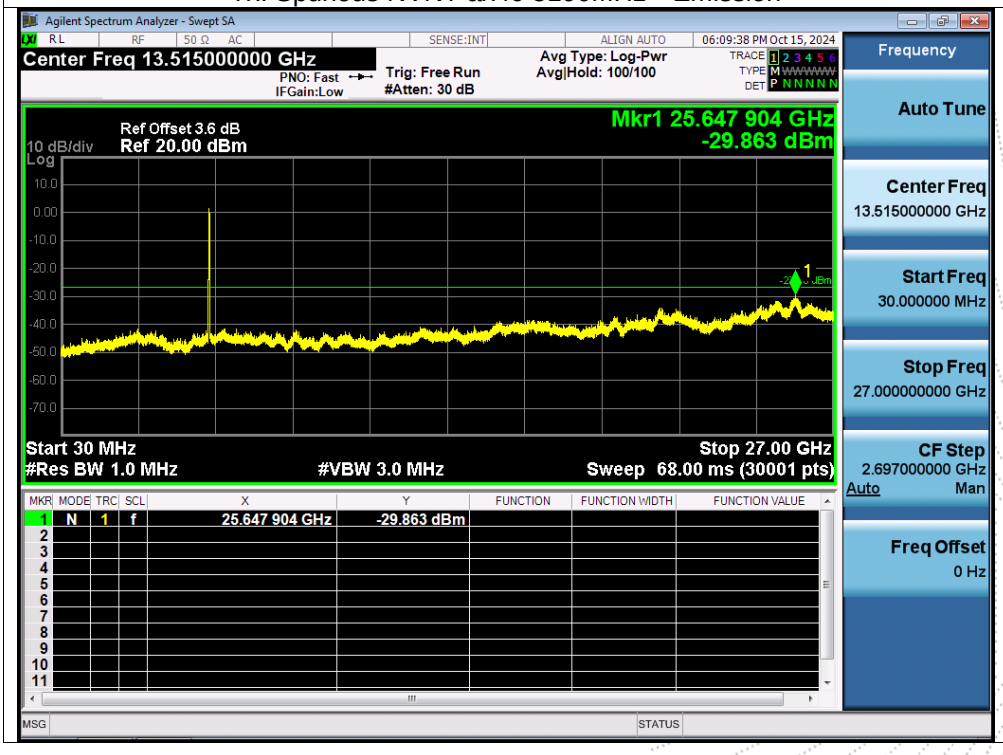
Tx. Spurious NVNT ax20 5200MHz Emission



Tx. Spurious NVNT ax20 5240MHz Emission

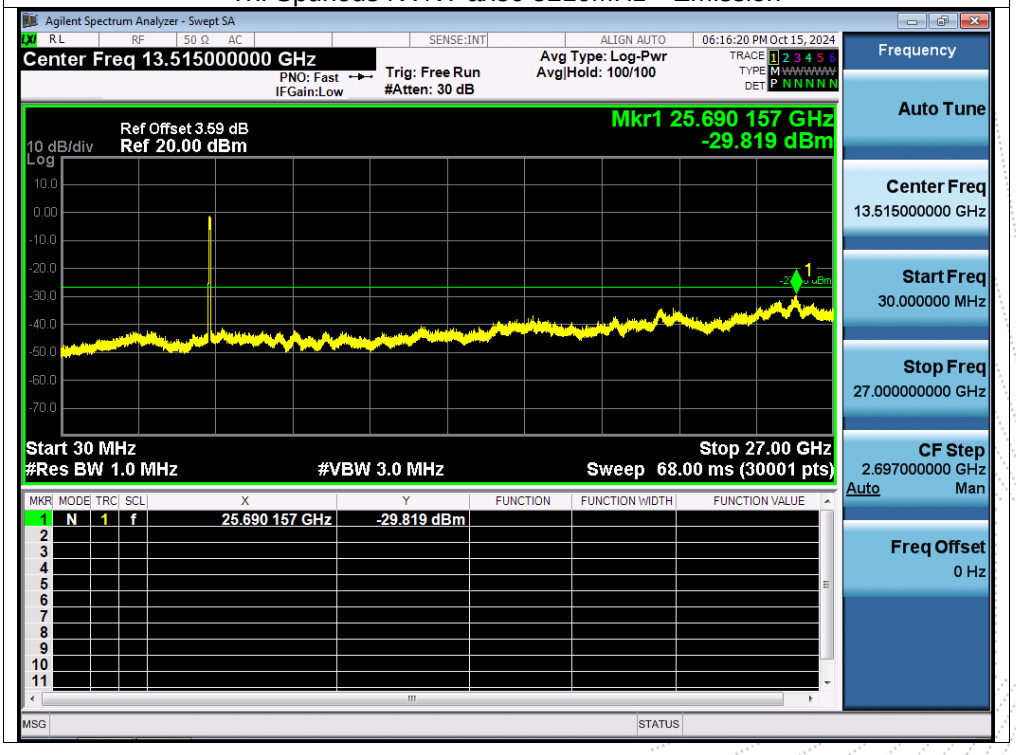


Tx. Spurious NVNT ax40 5190MHz Emission



Tx. Spurious NVNT ax40 5230MHz Emission

Tx. Spurious NVNT ax80 5210MHz Emission



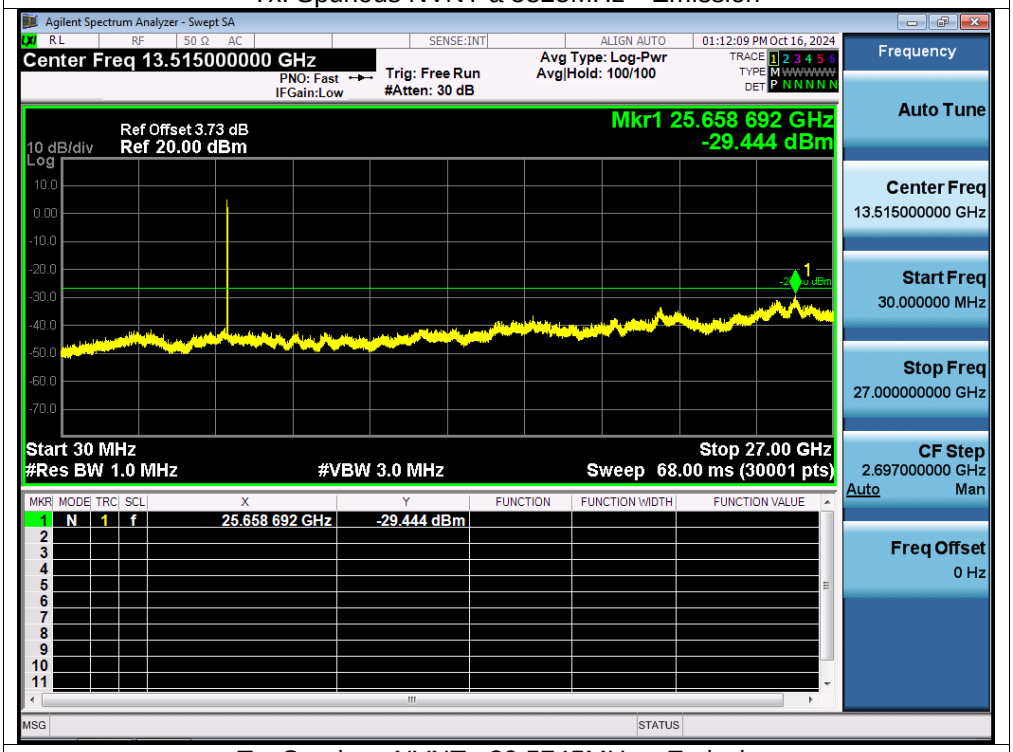
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot. 5745-58250MHz

Test Graphs

Tx. Spurious NVNT a 5745MHz Emission

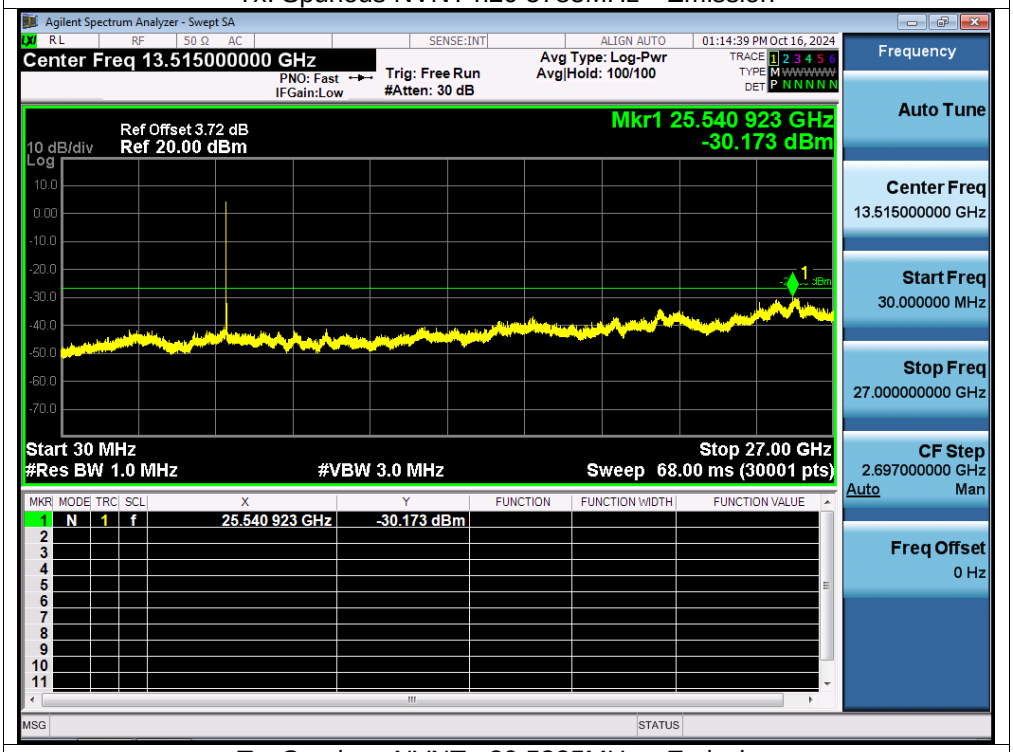
Tx. Spurious NVNT a 5785MHz Emission

Tx. Spurious NVNT a 5825MHz Emission



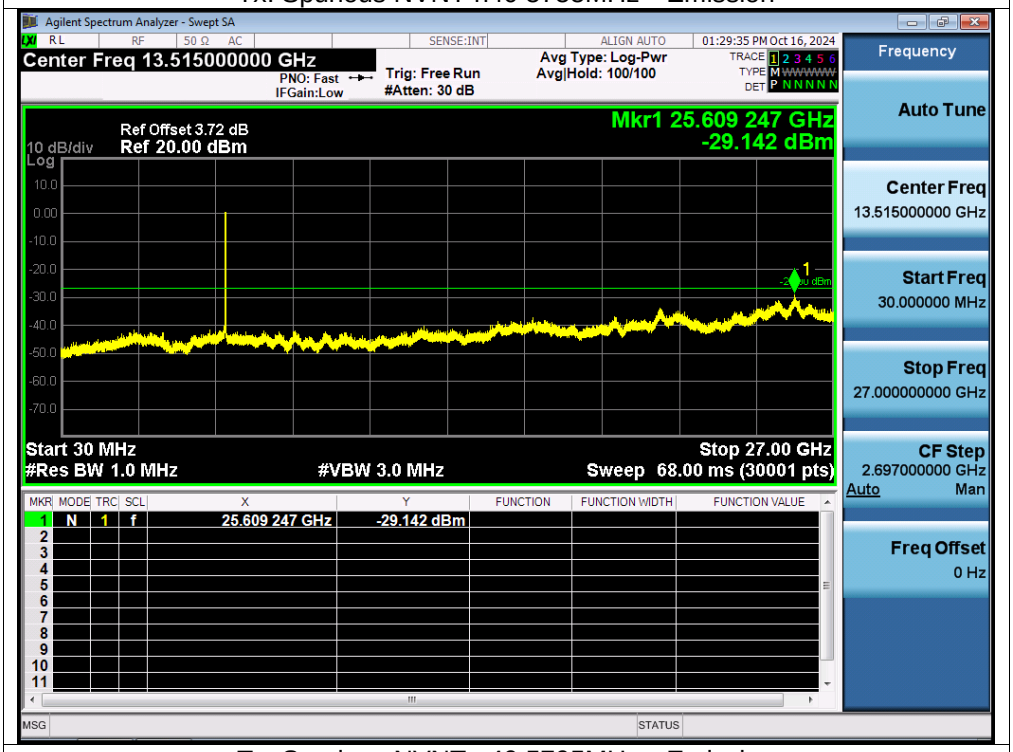
Tx. Spurious NVNT n20 5745MHz Emission

Tx. Spurious NVNT n20 5785MHz Emission

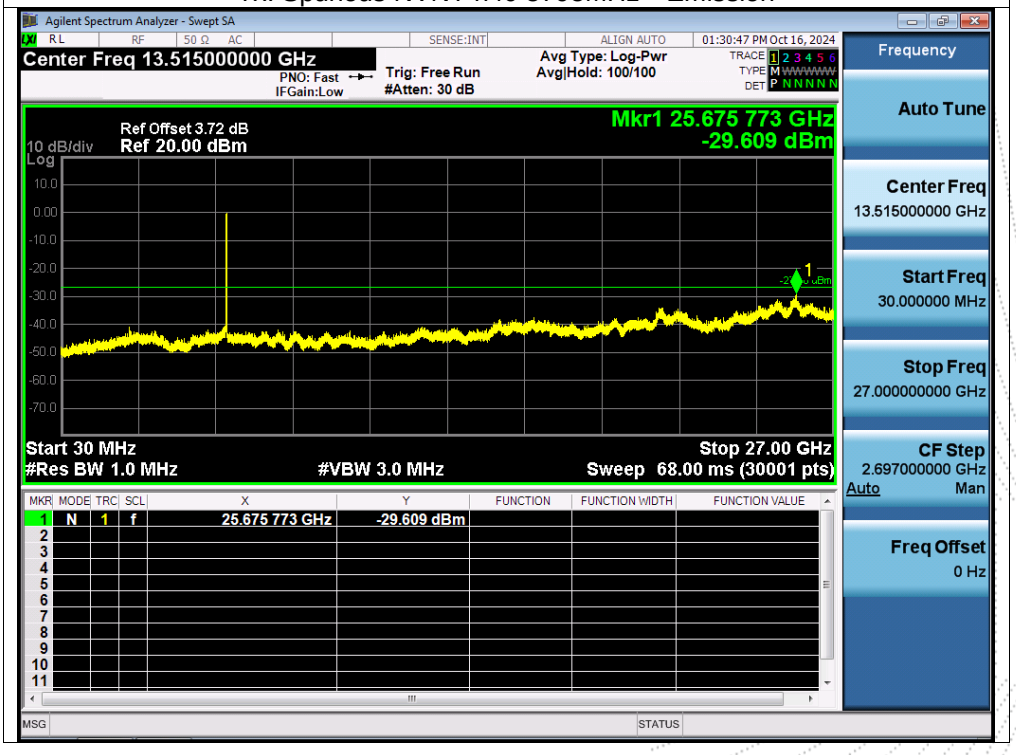


Tx. Spurious NVNT n20 5825MHz Emission

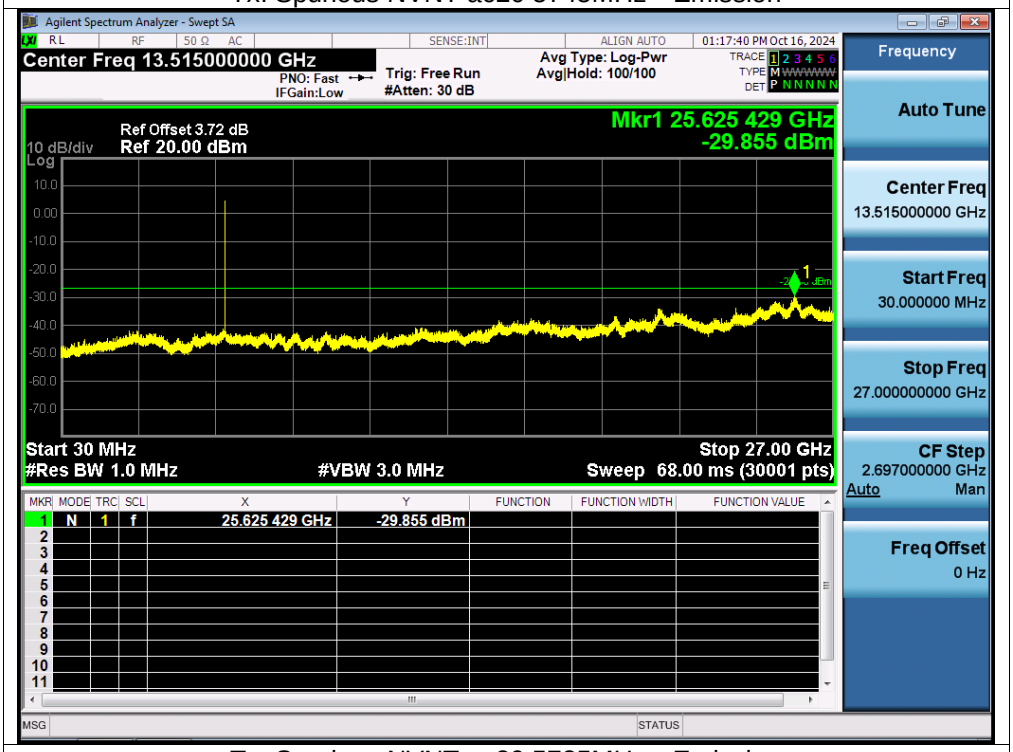
Tx. Spurious NVNT n40 5755MHz Emission



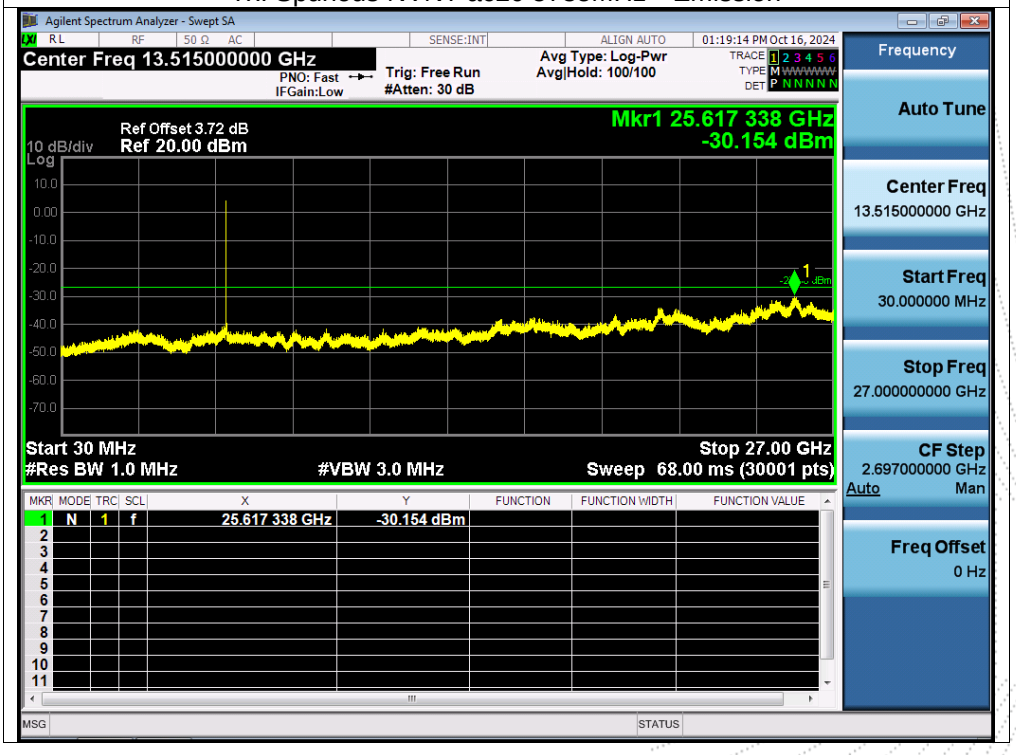
Tx. Spurious NVNT n40 5795MHz Emission



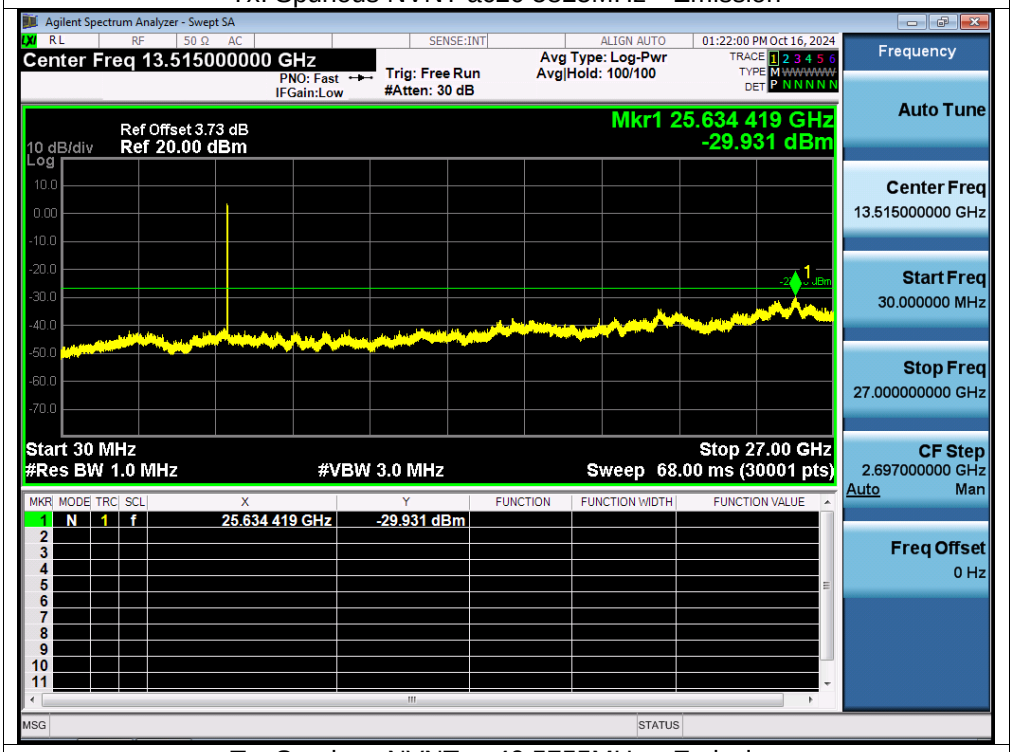
Tx. Spurious NVNT ac20 5745MHz Emission



Tx. Spurious NVNT ac20 5785MHz Emission

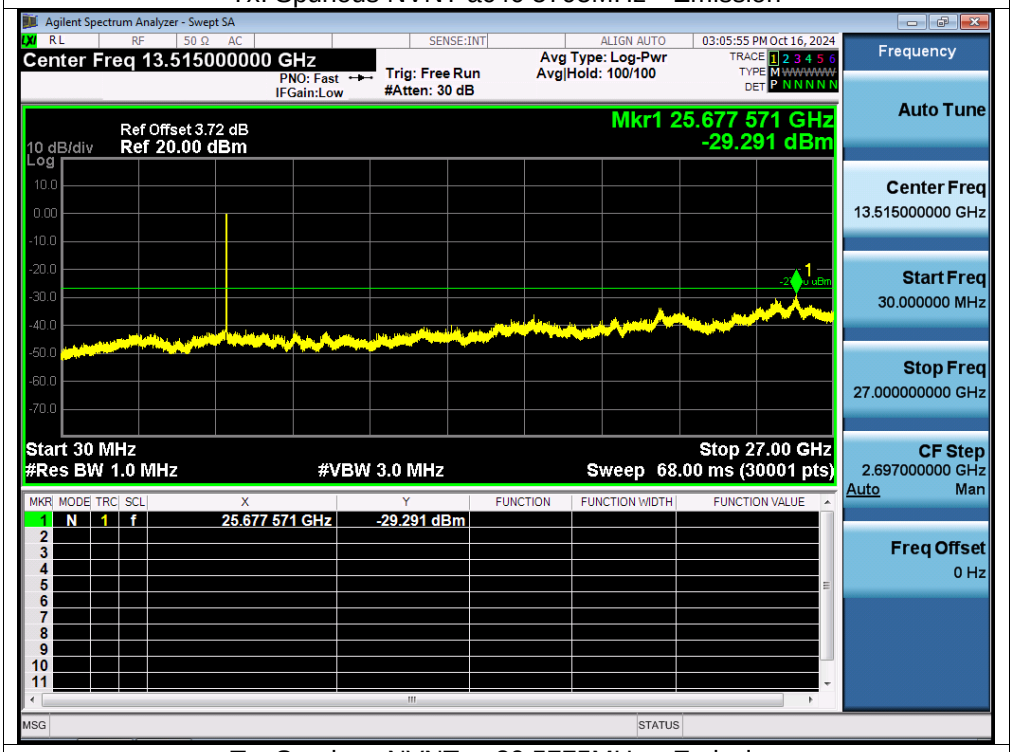


Tx. Spurious NVNT ac20 5825MHz Emission



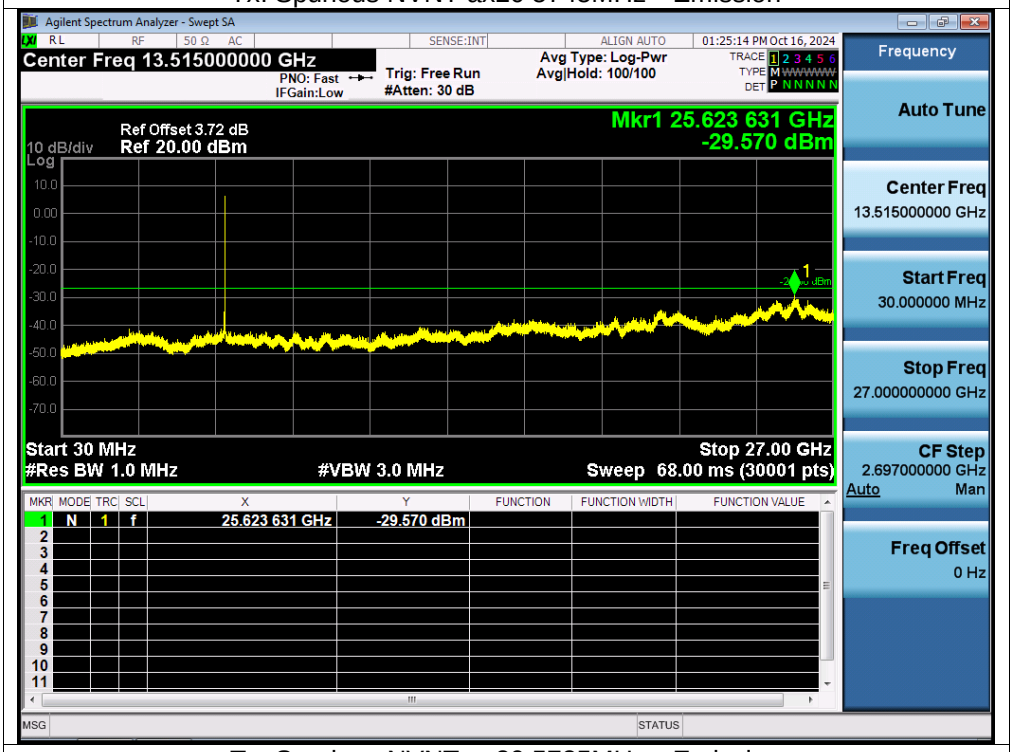
Tx. Spurious NVNT ac40 5755MHz Emission

Tx. Spurious NVNT ac40 5795MHz Emission



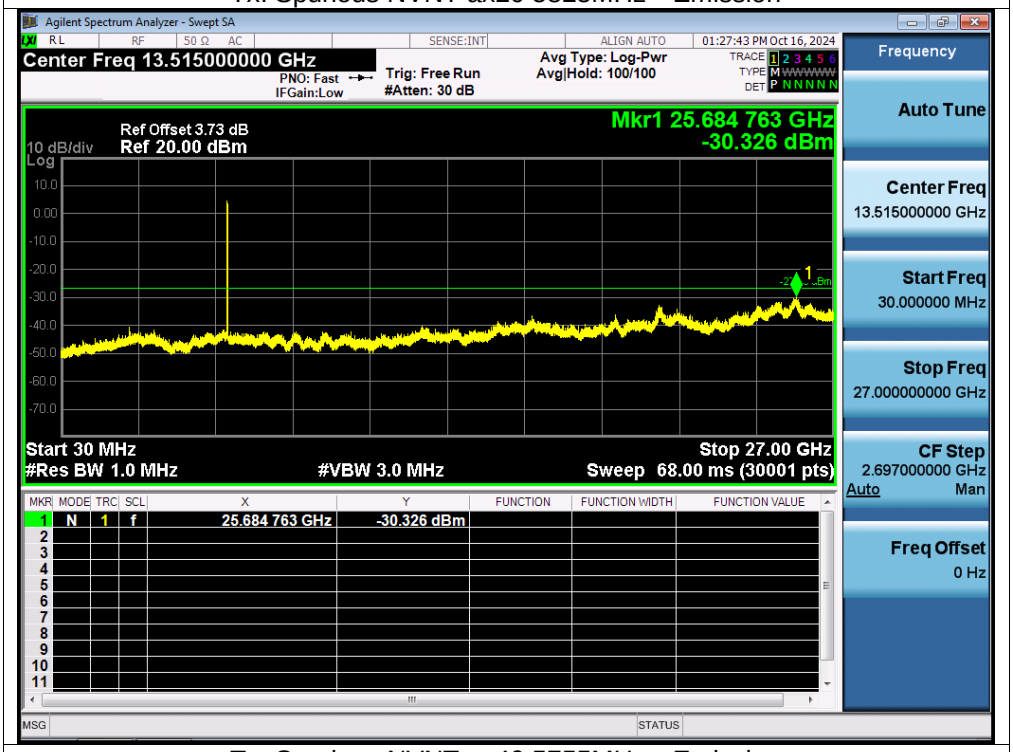
Tx. Spurious NVNT ac80 5775MHz Emission

Tx. Spurious NVNT ax20 5745MHz Emission



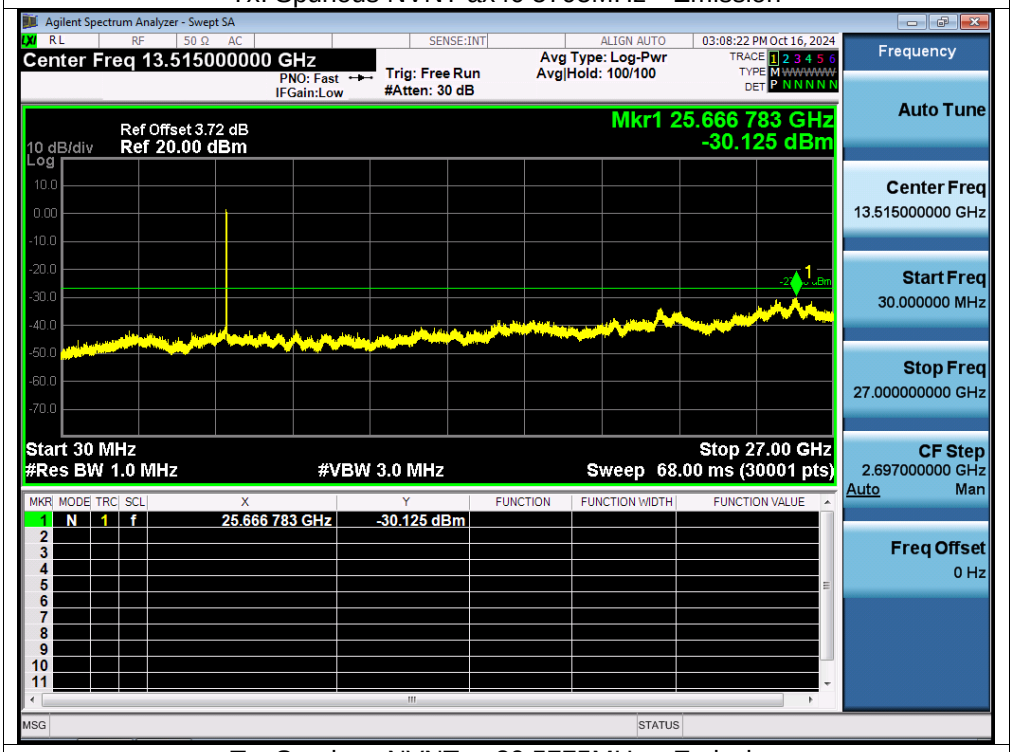
Tx. Spurious NVNT ax20 5785MHz Emission

Tx. Spurious NVNT ax20 5825MHz Emission



Tx. Spurious NVNT ax40 5755MHz Emission

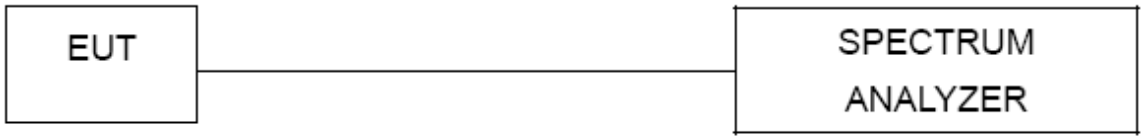
Tx. Spurious NVNT ax40 5795MHz Emission



Tx. Spurious NVNT ax80 5775MHz Emission

13. Frequency Stability Measurement

13.1 Block Diagram Of Test Setup



13.2 Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification)..

13.3 Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. fc is declaring of channel frequency. Then the frequency error formula is (fc-f)/fc × 106 ppm and he limit is less than ±20ppm (IEEE 802.11nspecification).
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is -20°C~70°C.

13.4 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage**:**	DC 12V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				**Reference Frequency: 5180MHz**			
				f	**fc**	**Max. Deviation (MHz)**	**Max. Deviation (ppm)**
T nom (°C)	20	V nom (V)	12.00	5180.0036	5180	0.0036	0.6950
		V max (V)	13.80	5180.0001	5180	0.0001	0.0193
		V min (V)	10.20	5180.0011	5180	0.0011	0.2124
Limits				5150-5250 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				**Reference Frequency: 5180MHz**			
				f	**fc**	**Max. Deviation (MHz)**	**Max. Deviation (ppm)**
V nom (V)	12	T (°C)	-20	5180.0086	5180	0.0086	1.6602
		T (°C)	-10	5180.0114	5180	0.0114	2.2008
		T (°C)	0	5180.0106	5180	0.0106	2.0463
		T (°C)	10	5180.0072	5180	0.0072	1.3900
		T (°C)	20	5180.0058	5180	0.0058	1.1197
		T (°C)	30	5180.0132	5180	0.0132	2.5483
		T (°C)	40	5180.0040	5180	0.0040	0.7722
		T (°C)	50	5180.0060	5180	0.0060	1.1583
		T (°C)	60	5180.0119	5180	0.0119	2.2973
		T (°C)	70	5180.0001	5180	0.0001	0.0193
Limits				5150-5250 MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	12.00	5200.0056	5200	0.0056	1.0769
		V max (V)	13.80	5200.0077	5200	0.0077	1.4808
		V min (V)	10.20	5200.0012	5200	0.0012	0.2308
Limits				5150-5250 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	-20	5200.01020	5200	0.01020	1.9615
		T (°C)	-10	5200.01230	5200	0.01230	2.3654
		T (°C)	0	5200.00700	5200	0.00700	1.3462
		T (°C)	10	5200.01180	5200	0.01180	2.2692
		T (°C)	20	5200.00350	5200	0.00350	0.6731
		T (°C)	30	5200.01140	5200	0.01140	2.1923
		T (°C)	40	5200.00550	5200	0.00550	1.0577
		T (°C)	50	5200.00820	5200	0.00820	1.5769
		T (°C)	60	5200.00310	5200	0.00310	0.5962
		T (°C)	70	5200.00860	5200	0.00860	1.6538
Limits				5150-5250 MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	12.00	5240.0055	5240	0.0055	1.0496
		V max (V)	13.80	5240.0101	5240	0.0101	1.9275
		V min (V)	10.20	5240.0023	5240	0.0023	0.4389
Limits				5150-5250 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	-20	5240.0044	5240	0.0044	0.8397
		T (°C)	-10	5240.0126	5240	0.0126	2.4046
		T (°C)	0	5240.0118	5240	0.0118	2.2519
		T (°C)	10	5240.0022	5240	0.0022	0.4198
		T (°C)	20	5240.0033	5240	0.0033	0.6298
		T (°C)	30	5240.0036	5240	0.0036	0.6870
		T (°C)	40	5240.0103	5240	0.0103	1.9656
		T (°C)	50	5240.0098	5240	0.0098	1.8702
		T (°C)	60	5240.0052	5240	0.0052	0.9924
		T (°C)	70	5240.0088	5240	0.0088	1.6794
Limits				5150-5250 MHz			
Result				Complies			

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	TX Frequency U-NII-3 (5745-5825MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	12.00	5745.00340	5745	0.00340	0.5918
		V max (V)	13.80	5745.00180	5745	0.00180	0.3133
		V min (V)	10.20	5745.00450	5745	0.00450	0.7833
Limits				5725-5850 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	-20	5745.00460	5745	0.00460	0.8007
		T (°C)	-10	5745.00290	5745	0.00290	0.5048
		T (°C)	0	5745.01050	5745	0.01050	1.8277
		T (°C)	10	5745.00340	5745	0.00340	0.5918
		T (°C)	20	5745.00060	5745	0.00060	0.1044
		T (°C)	30	5745.01100	5745	0.01100	1.9147
		T (°C)	40	5745.00950	5745	0.00950	1.6536
		T (°C)	50	5745.00500	5745	0.00500	0.8703
		T (°C)	60	5745.01010	5745	0.01010	1.7581
		T (°C)	70	5745.00380	5745	0.00380	0.6614
Limits				5725-5850 MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	12.00	5785.00950	5785	0.00950	1.6422
		V max (V)	13.80	5785.01010	5785	0.01010	1.7459
		V min (V)	10.20	5785.01100	5785	0.01100	1.9015
Limits				5725-5850 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	-20	5785.00110	5785	0.00110	0.1901
		T (°C)	-10	5785.00100	5785	0.00100	0.1729
		T (°C)	0	5785.01240	5785	0.01240	2.1435
		T (°C)	10	5785.00530	5785	0.00530	0.9162
		T (°C)	20	5785.00850	5785	0.00850	1.4693
		T (°C)	30	5785.00340	5785	0.00340	0.5877
		T (°C)	40	5785.01140	5785	0.01140	1.9706
		T (°C)	50	5785.00450	5785	0.00450	0.7779
		T (°C)	60	5785.01350	5785	0.01350	2.3336
		T (°C)	70	5785.00720	5785	0.00720	1.2446
Limits				5725-5850 MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	12.00	5825.00290	5825	0.00290	0.4979
		V max (V)	13.80	5825.00610	5825	0.00610	1.0472
		V min (V)	10.20	5825.00880	5825	0.00880	1.5107
Limits				5725-5850 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	-20	5825.00350	5825	0.00350	0.6009
		T (°C)	-10	5825.00910	5825	0.00910	1.5622
		T (°C)	0	5825.01330	5825	0.01330	2.2833
		T (°C)	10	5825.01050	5825	0.01050	1.8026
		T (°C)	20	5825.01290	5825	0.01290	2.2146
		T (°C)	30	5825.00080	5825	0.00080	0.1373
		T (°C)	40	5825.00680	5825	0.00680	1.1674
		T (°C)	50	5825.00350	5825	0.00350	0.6009
		T (°C)	60	5825.00490	5825	0.00490	0.8412
		T (°C)	70	5825.01140	5825	0.01140	1.9571
Limits				5725-5850 MHz			
Result				Complies			

14. Duty Cycle Of Test Signal

14.1 Standard Requirement

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

14.2 Formula

Duty Cycle = Ton / (Ton+Toff)

14.3 Test Procedure

1.Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

14.4 Test Result

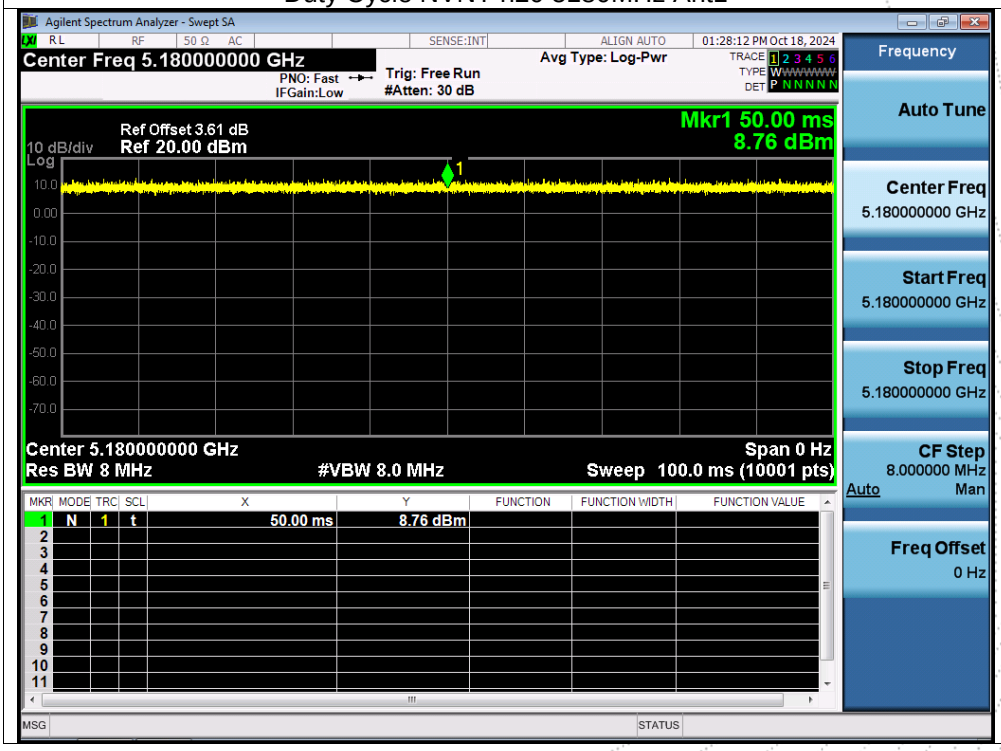
ANT A

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	100	0	0.01
NVNT	n20	5180	100	0	0.01
NVNT	n40	5190	100	0	0.01
NVNT	ac20	5180	100	0	0.01
NVNT	ac40	5190	100	0	0.01
NVNT	ac80	5210	100	0	0.01
NVNT	ax20	5180	100	0	0.01
NVNT	ax40	5190	100	0	0.01
NVNT	ax80	5210	100	0	0.01

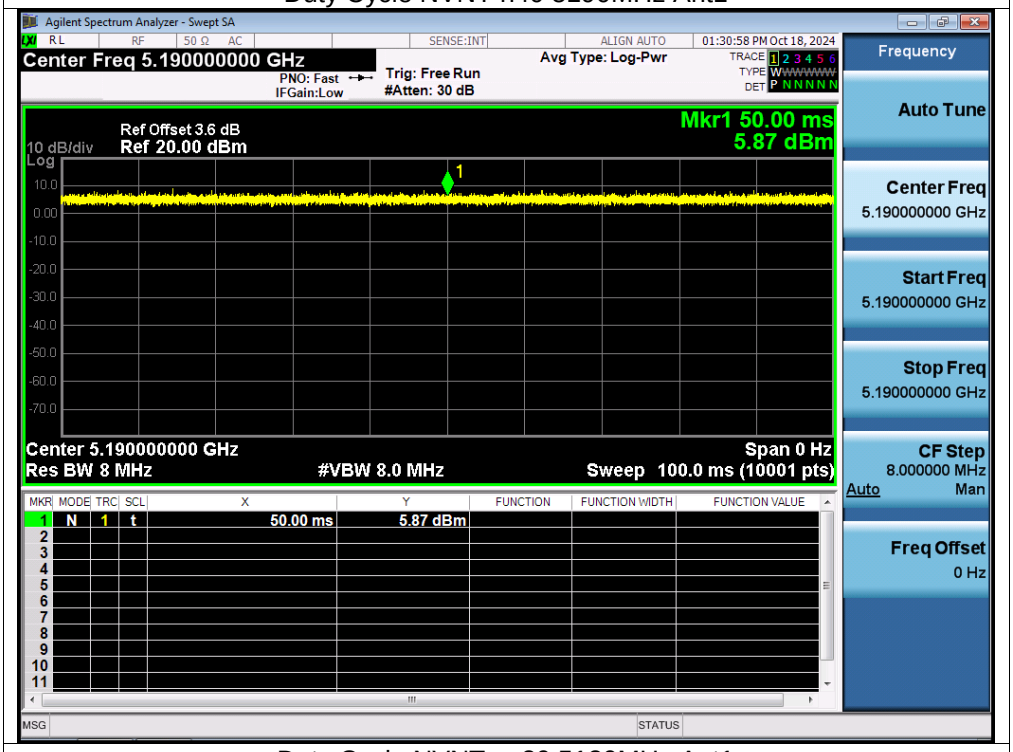
Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

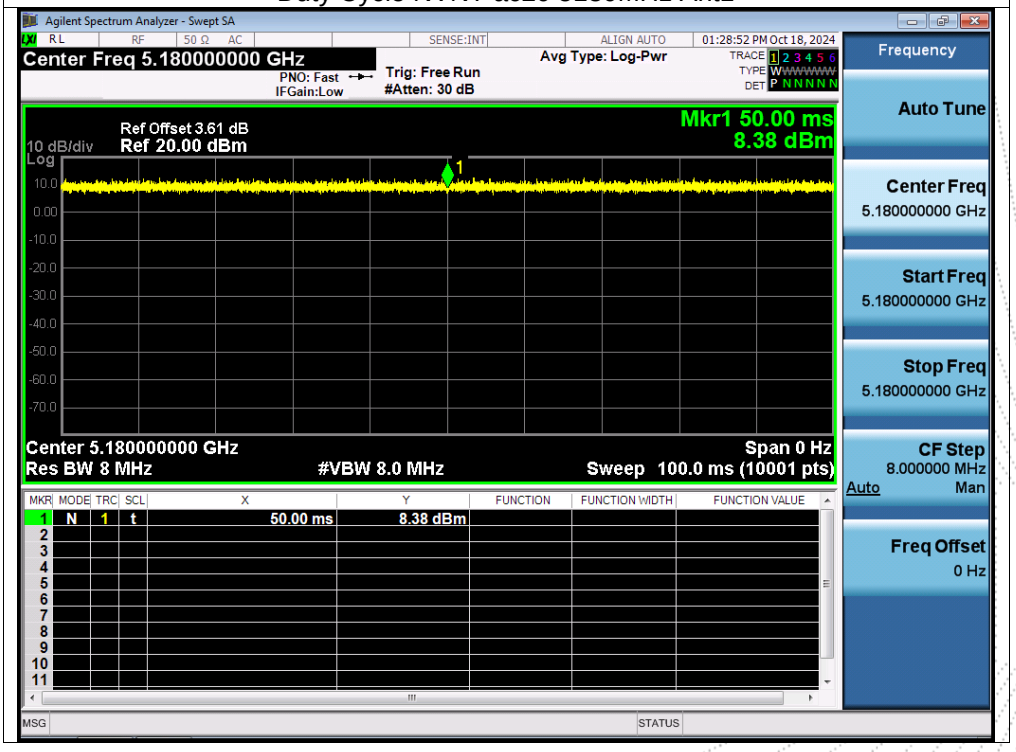
Duty Cycle NVNT n20 5180MHz Ant1



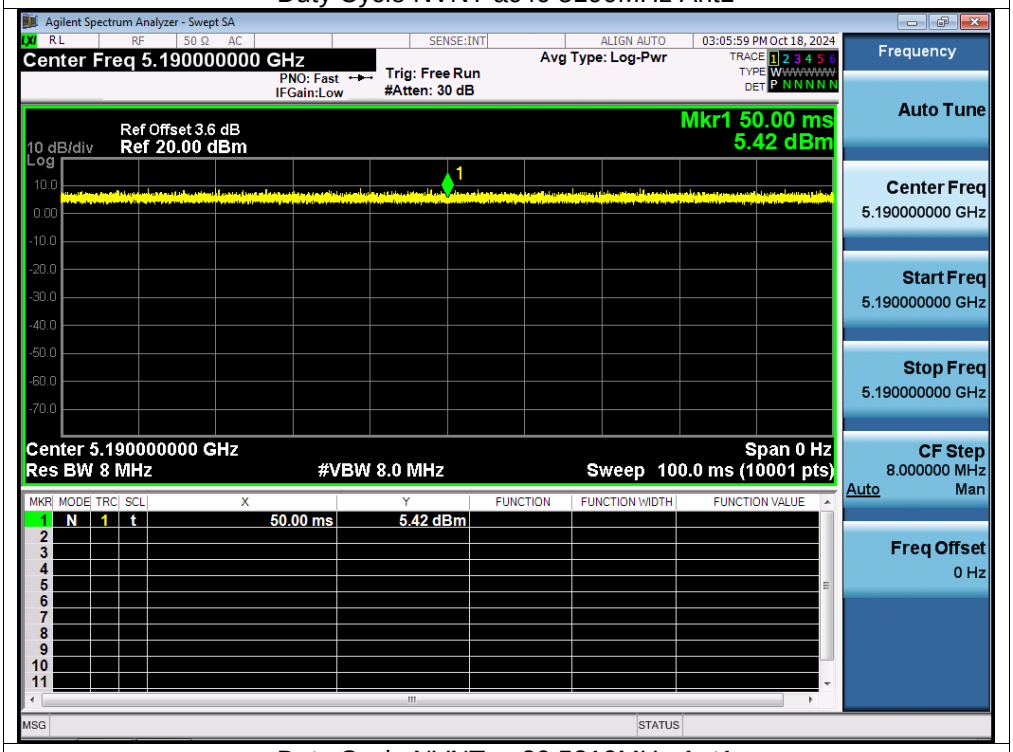
Duty Cycle NVNT n40 5190MHz Ant1



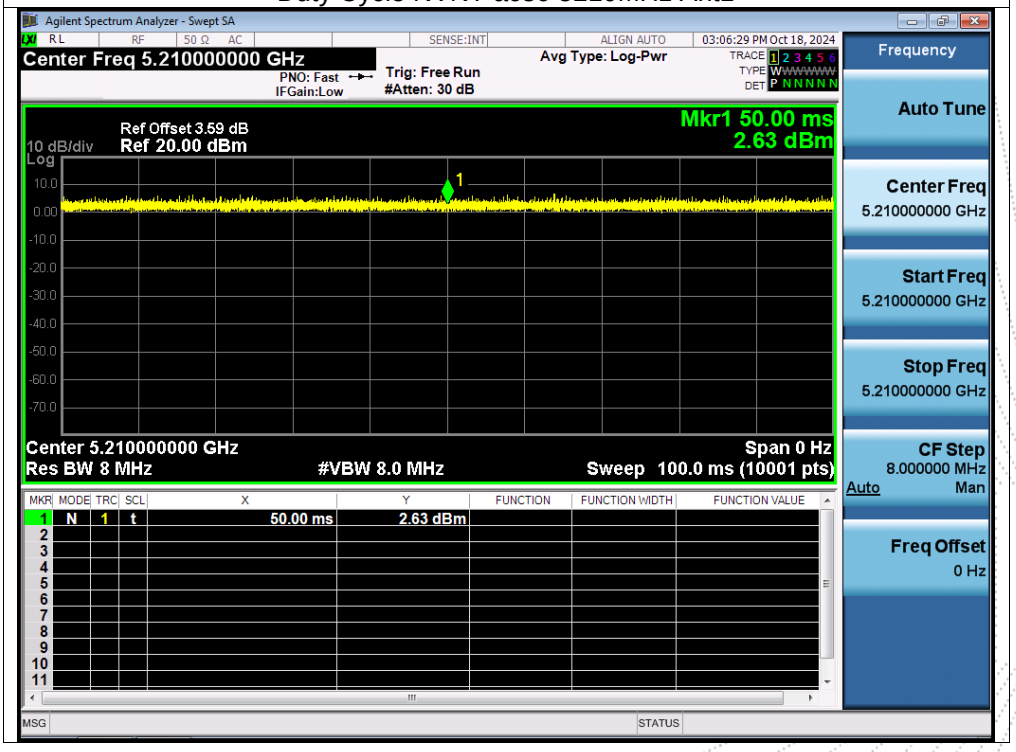
Duty Cycle NVNT ac20 5180MHz Ant1



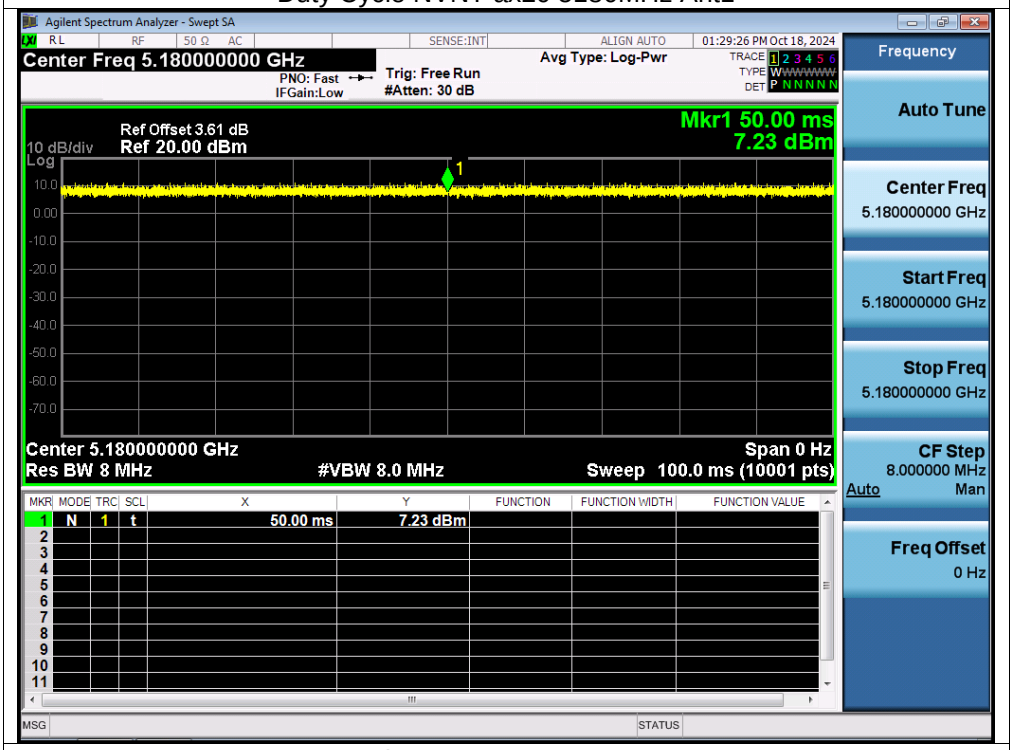
Duty Cycle NVNT ac40 5190MHz Ant1



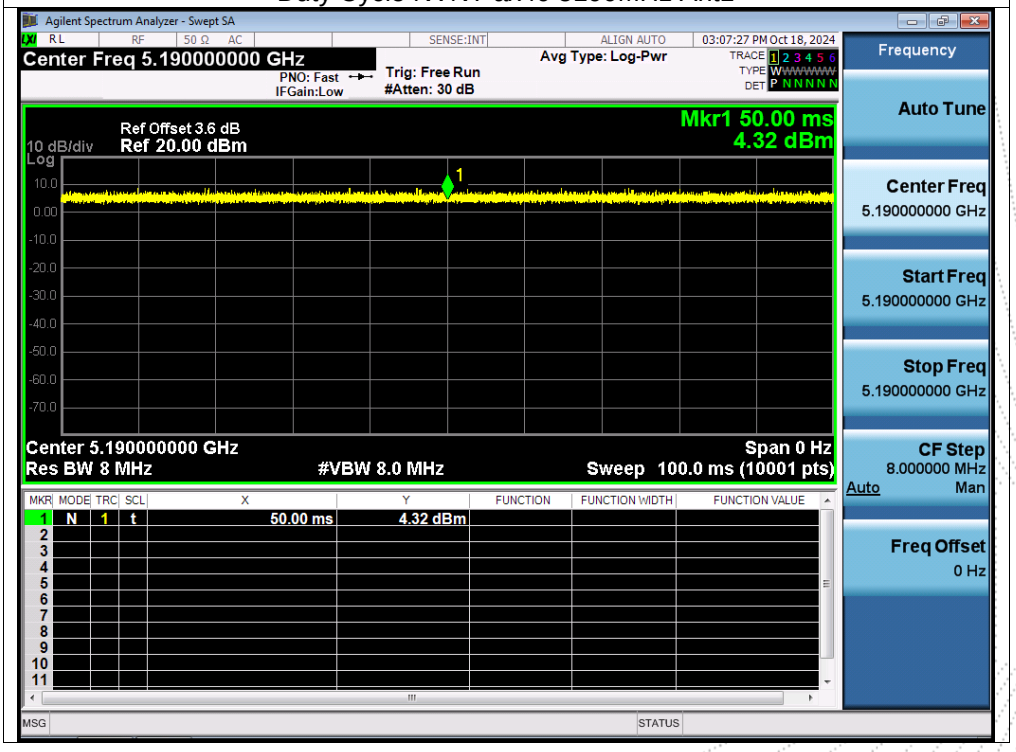
Duty Cycle NVNT ac80 5210MHz Ant1



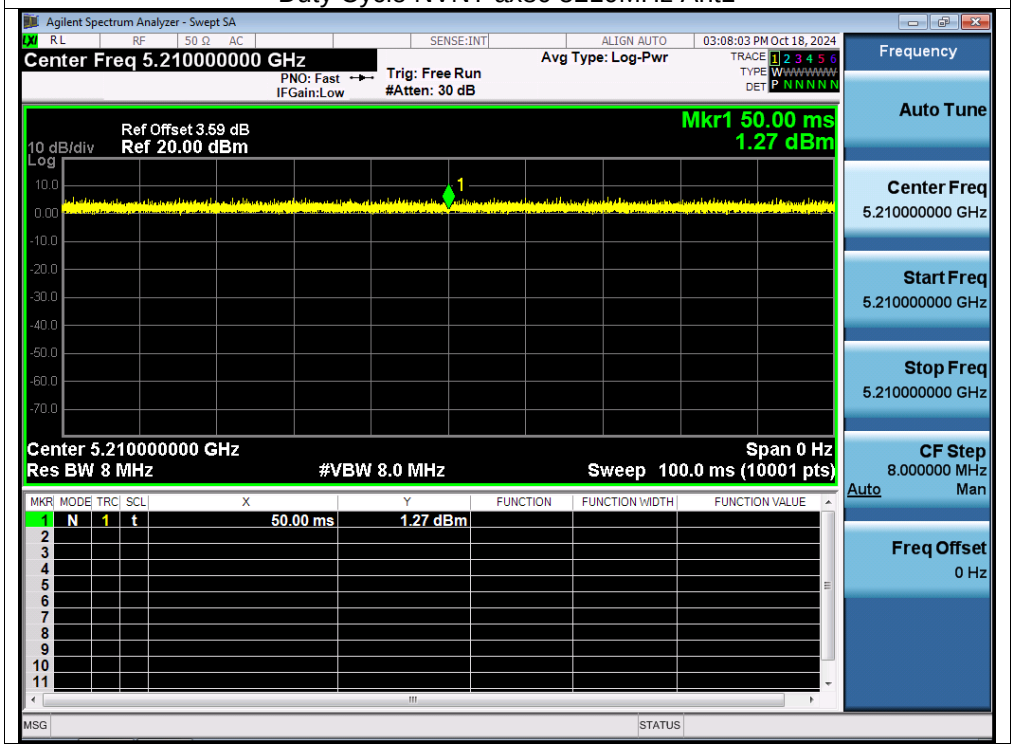
Duty Cycle NVNT ax20 5180MHz Ant1



Duty Cycle NVNT ax40 5190MHz Ant1



Duty Cycle NVNT ax80 5210MHz Ant1



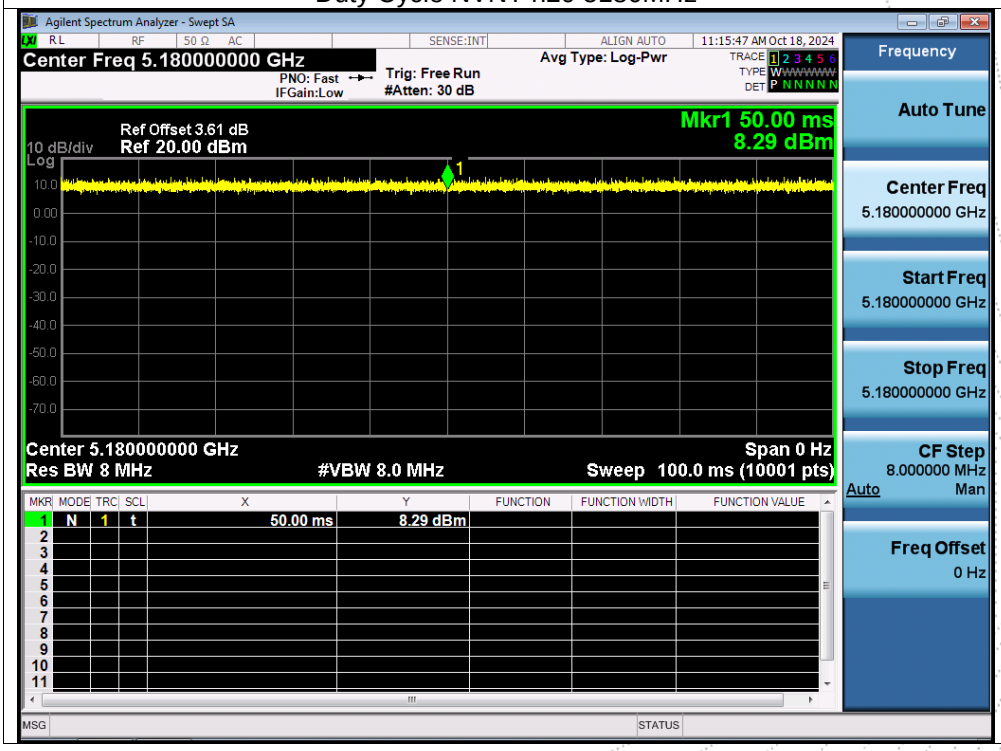
ANT B

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	100	0	0.01
NVNT	n20	5180	100	0	0.01
NVNT	n40	5190	100	0	0.01
NVNT	ac20	5180	100	0	0.01
NVNT	ac40	5190	100	0	0.01
NVNT	ac80	5210	100	0	0.01
NVNT	ax20	5180	100	0	0.01
NVNT	ax40	5190	100	0	0.01
NVNT	ax80	5210	100	0	0.01

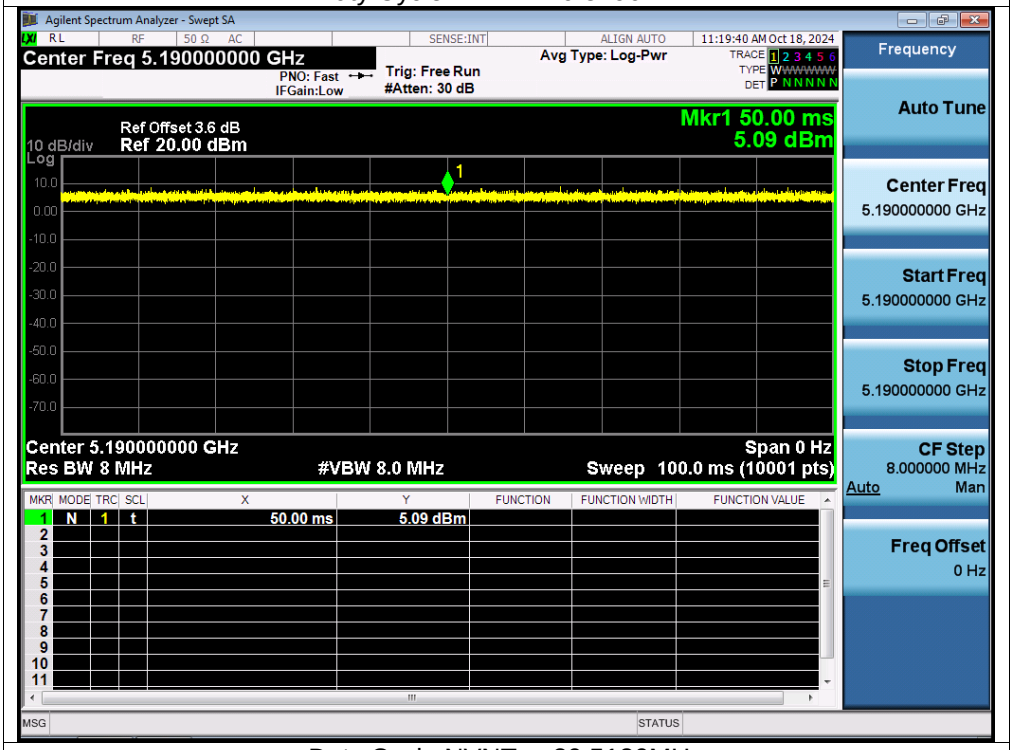
Test Graphs

Duty Cycle NVNT a 5180MHz

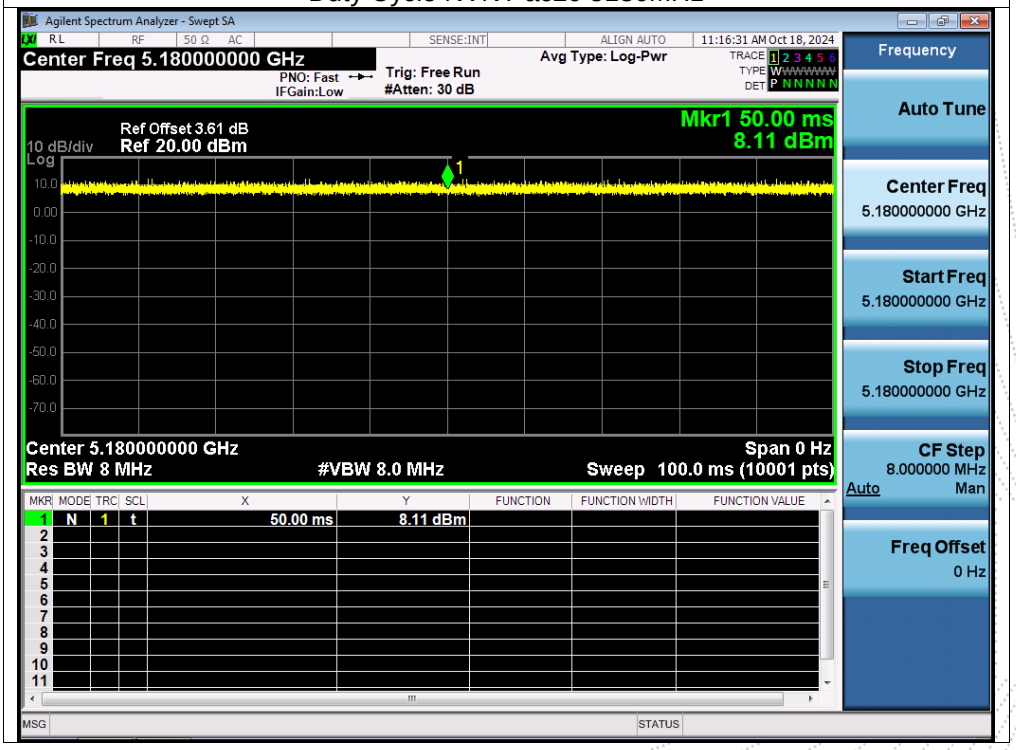
Duty Cycle NVNT n20 5180MHz



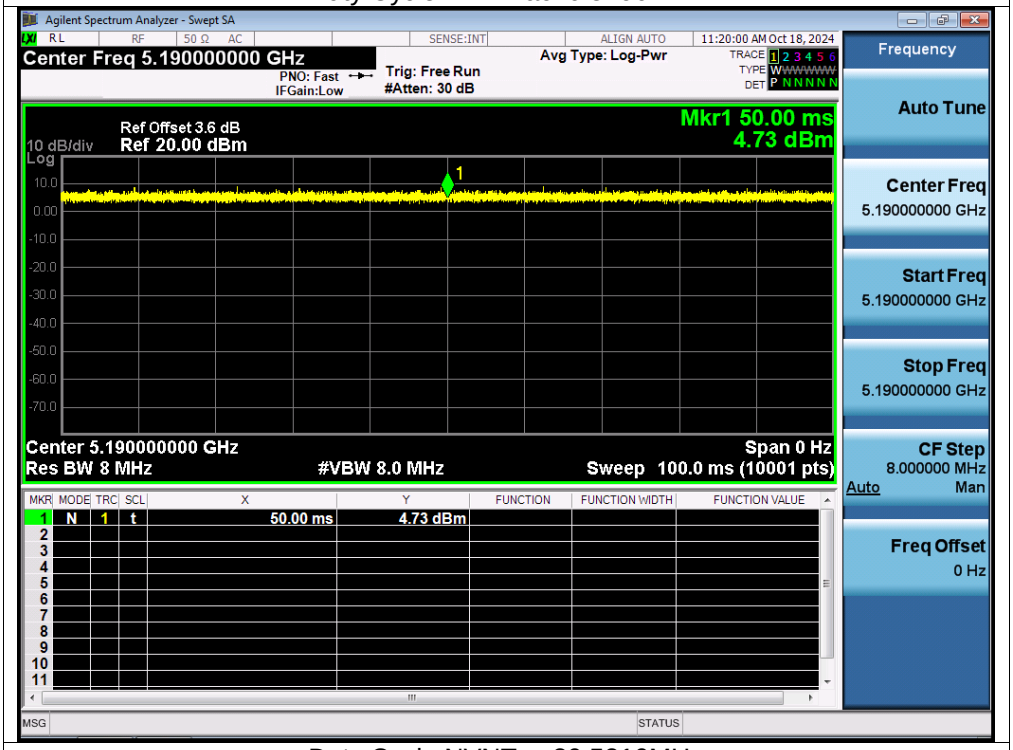
Duty Cycle NVNT n40 5190MHz



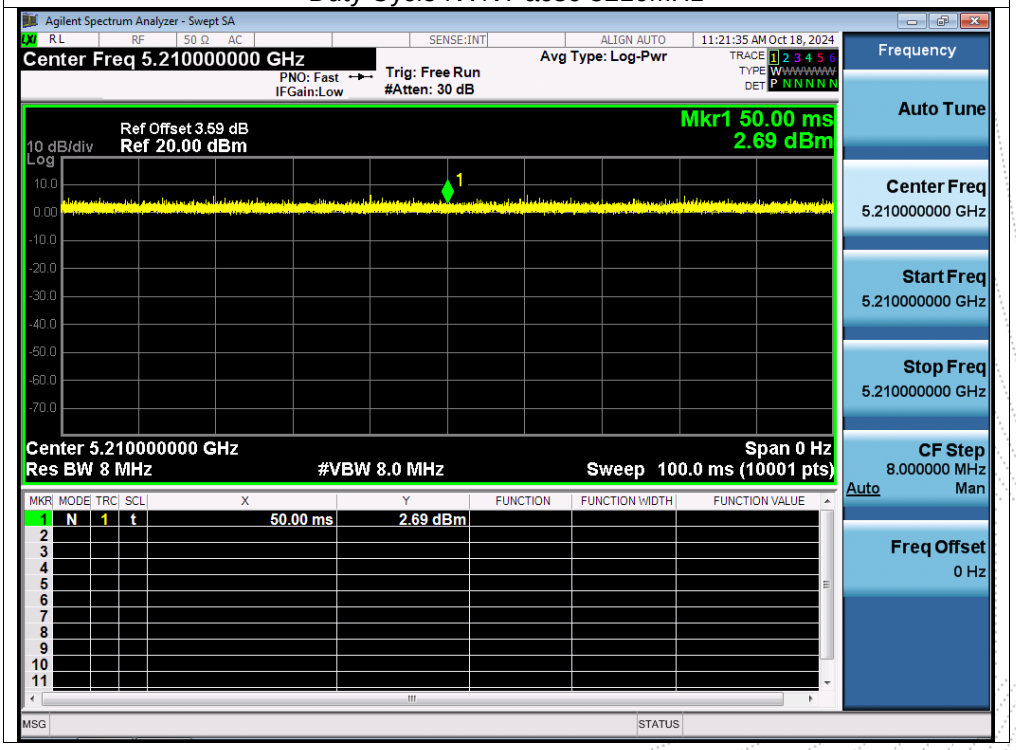
Duty Cycle NVNT ac20 5180MHz



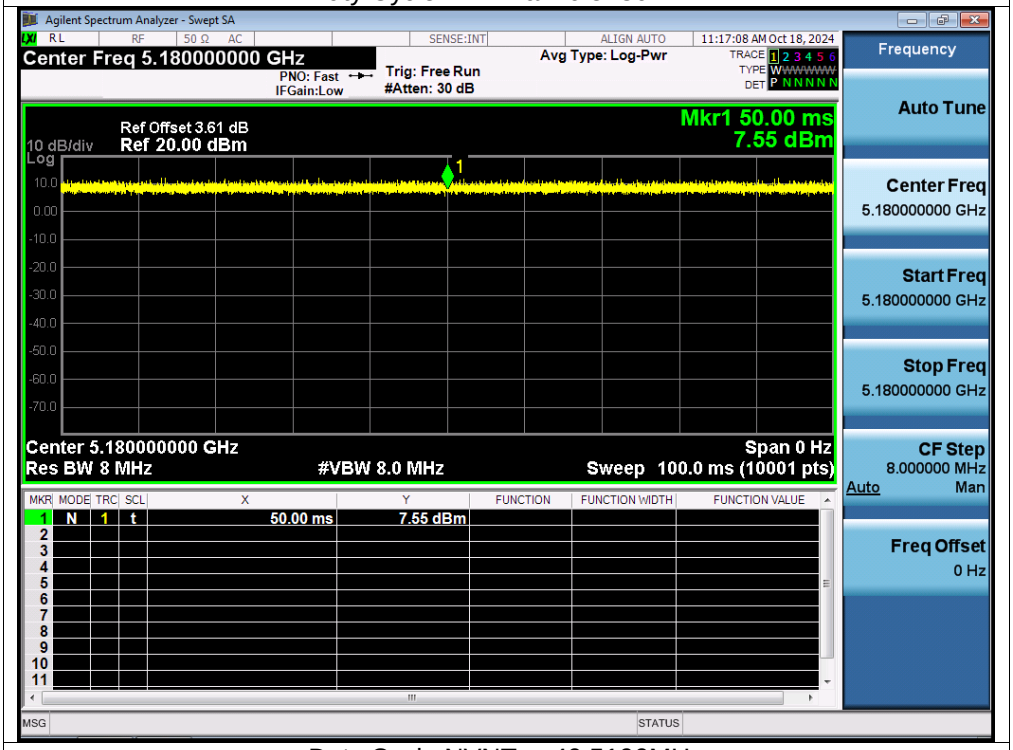
Duty Cycle NVNT ac40 5190MHz



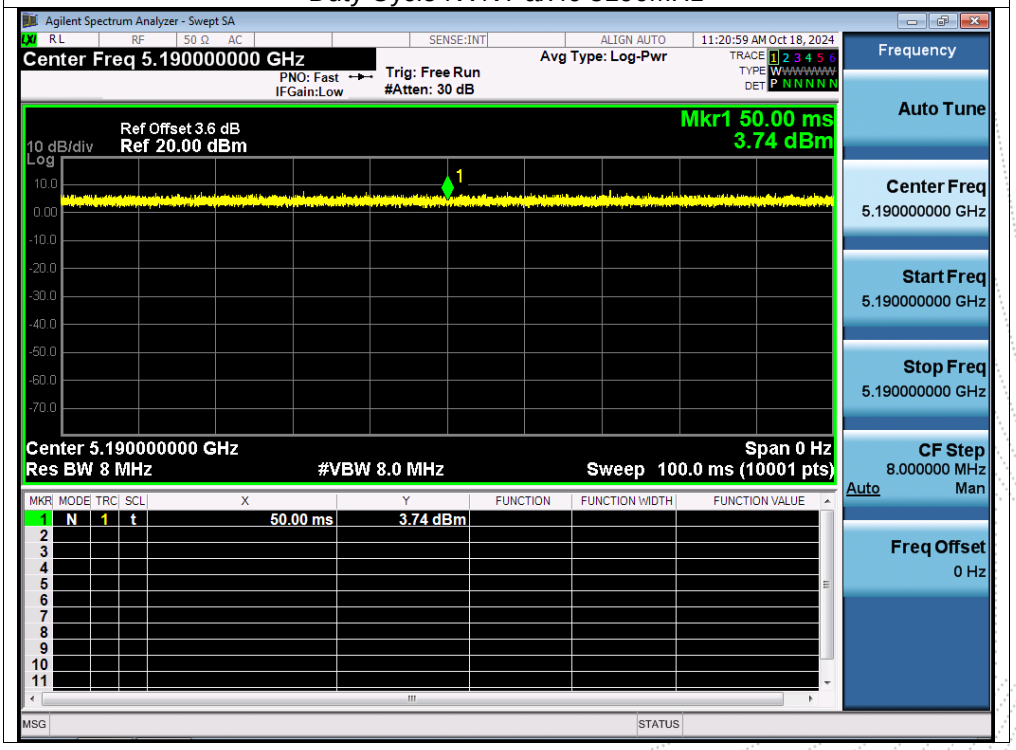
Duty Cycle NVNT ac80 5210MHz



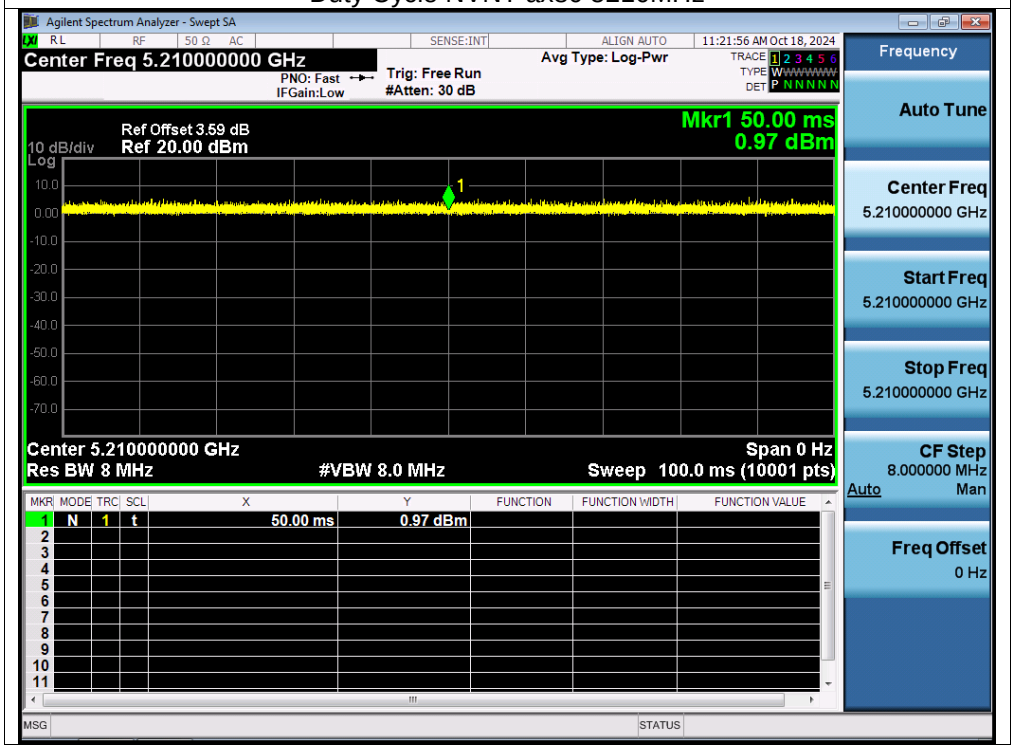
Duty Cycle NVNT ax20 5180MHz



Duty Cycle NVNT ax40 5190MHz



Duty Cycle NVNT ax80 5210MHz



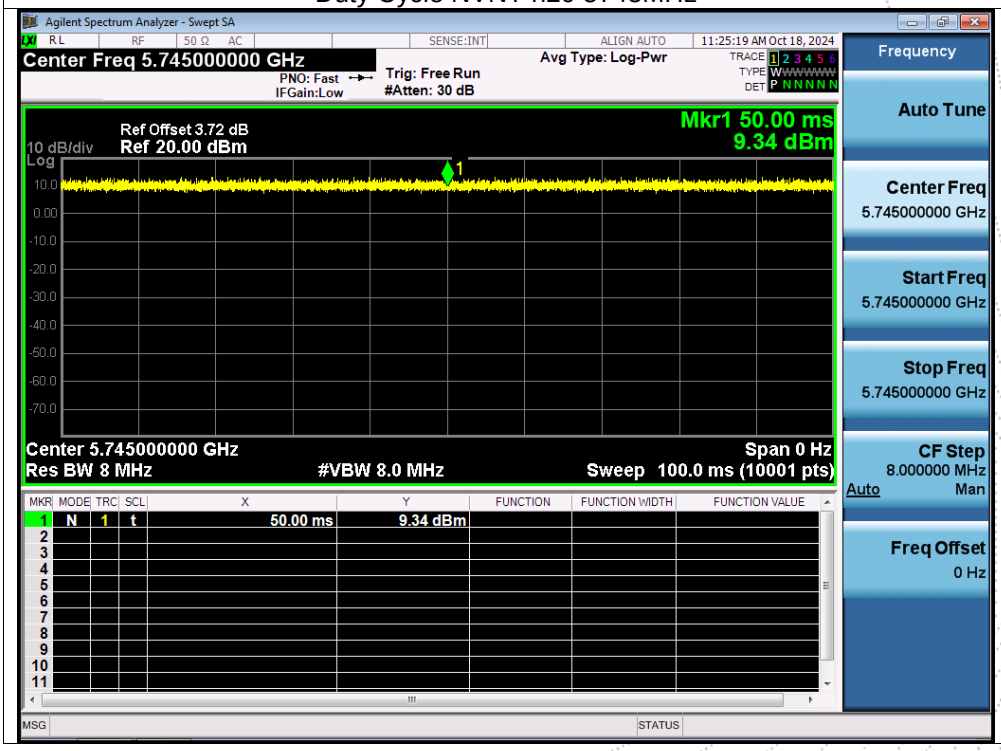
ANT A

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	100	0	0.01
NVNT	n20	5745	100	0	0.01
NVNT	n40	5755	100	0	0.01
NVNT	ac20	5745	100	0	0.01
NVNT	ac40	5755	100	0	0.01
NVNT	ac80	5775	100	0	0.01
NVNT	ax20	5745	100	0	0.01
NVNT	ax40	5755	100	0	0.01
NVNT	ax80	5775	100	0	0.01

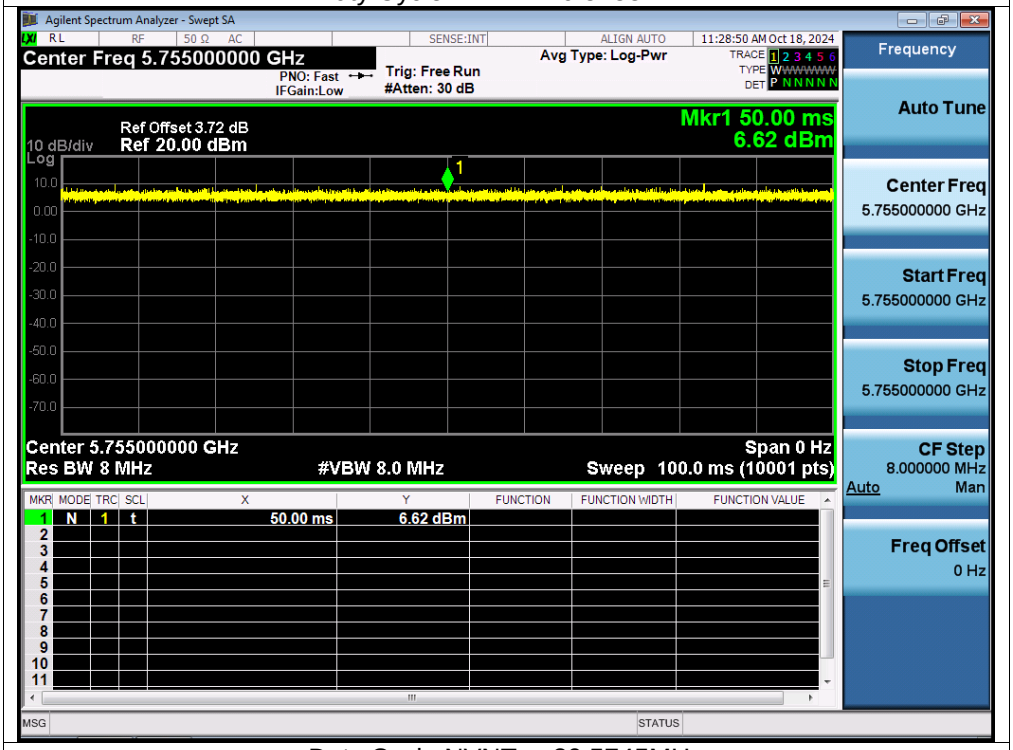
Test Graphs

Duty Cycle NVNT a 5745MHz

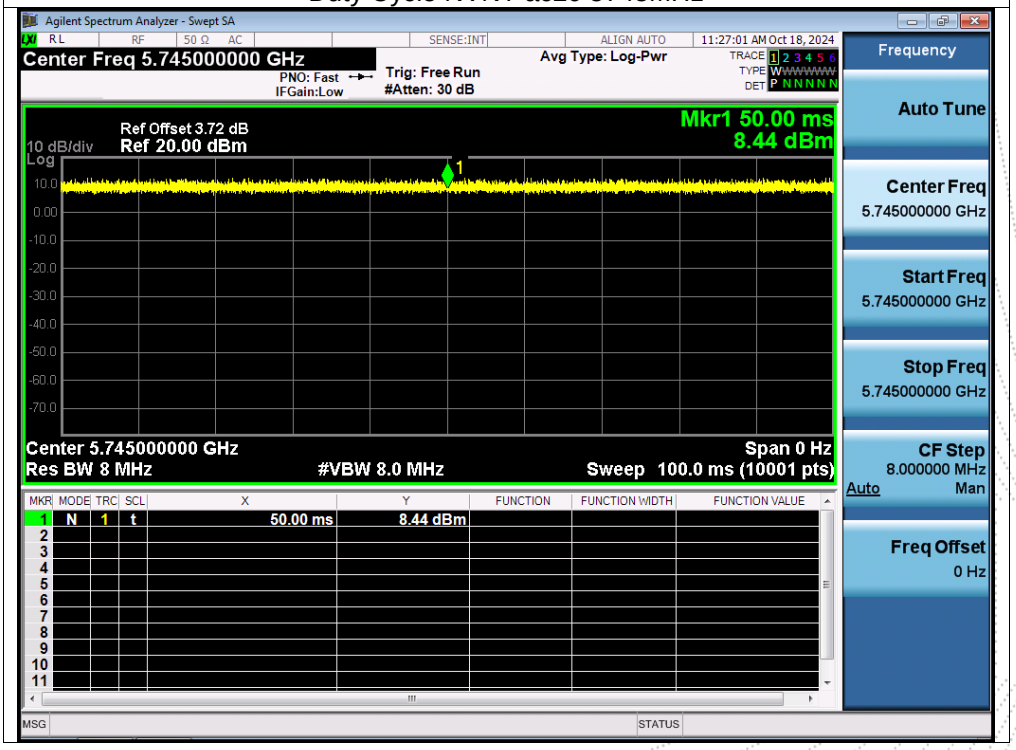
Duty Cycle NVNT n20 5745MHz



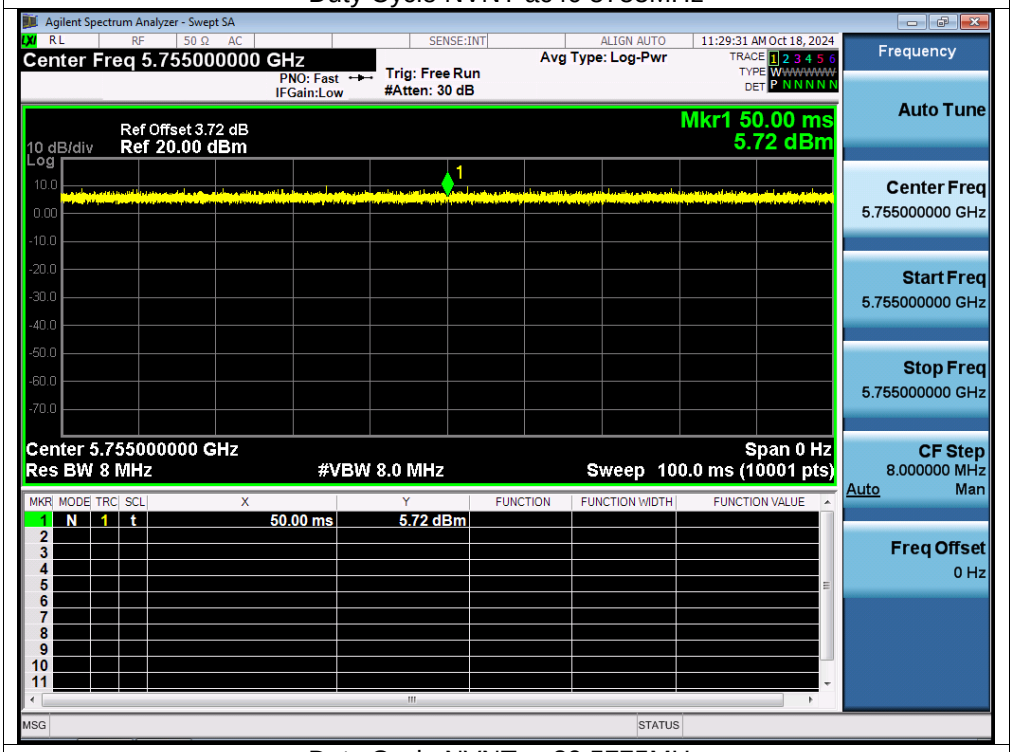
Duty Cycle NVNT n40 5755MHz



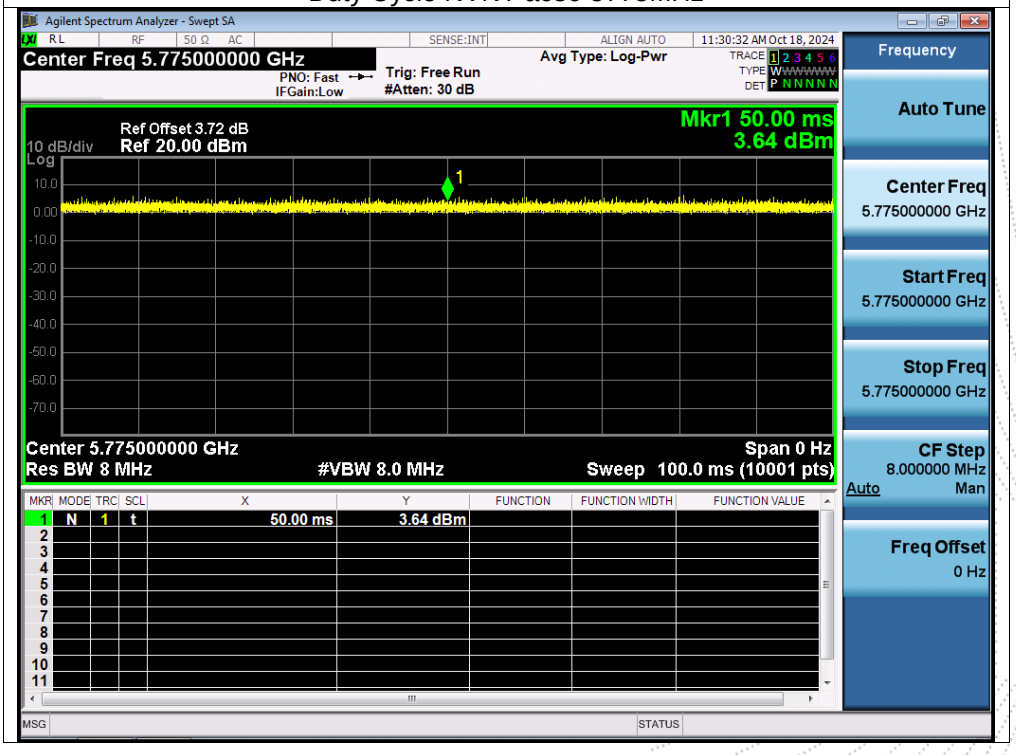
Duty Cycle NVNT ac20 5745MHz



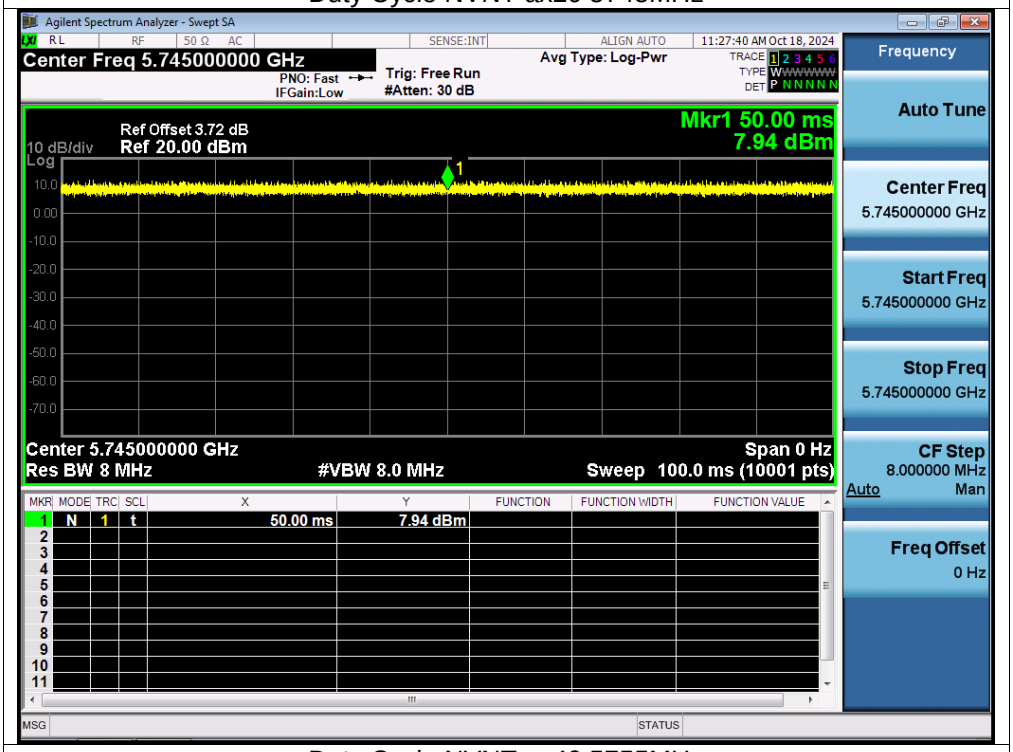
Duty Cycle NVNT ac40 5755MHz



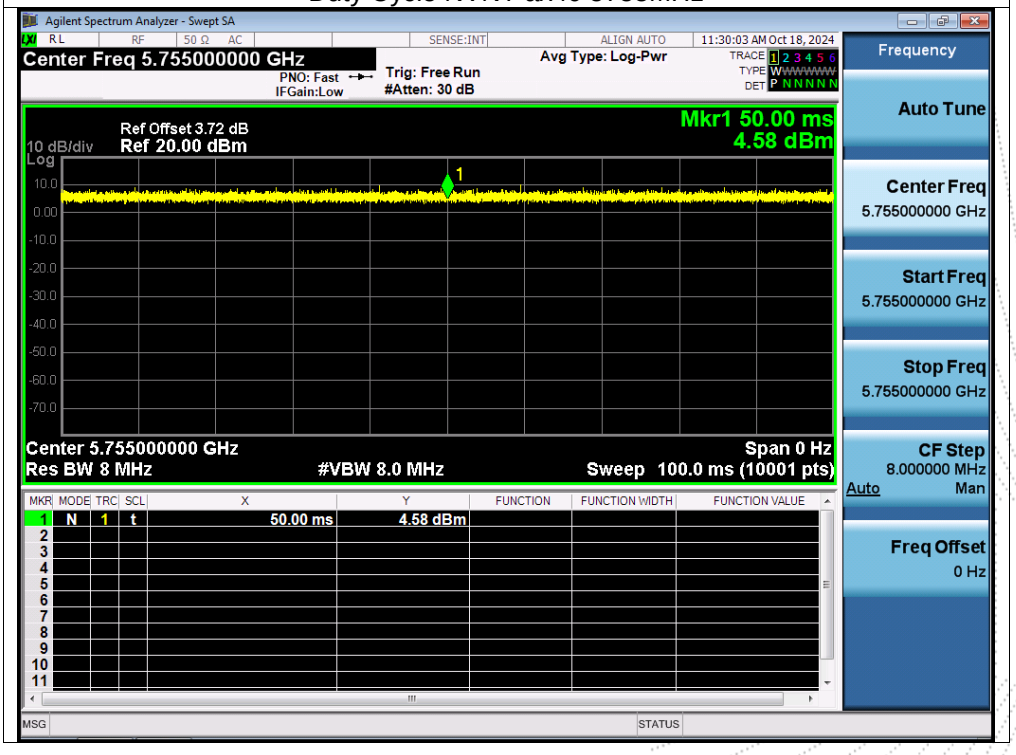
Duty Cycle NVNT ac80 5775MHz



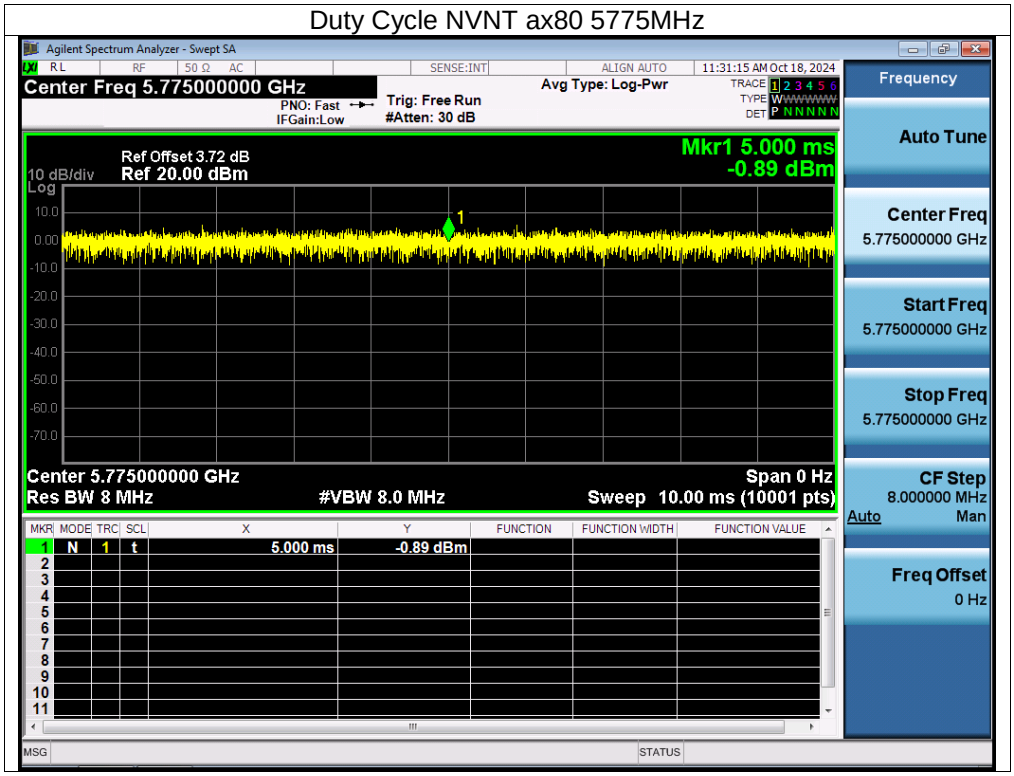
Duty Cycle NVNT ax20 5745MHz



Duty Cycle NVNT ax40 5755MHz



Duty Cycle NVNT ax80 5775MHz



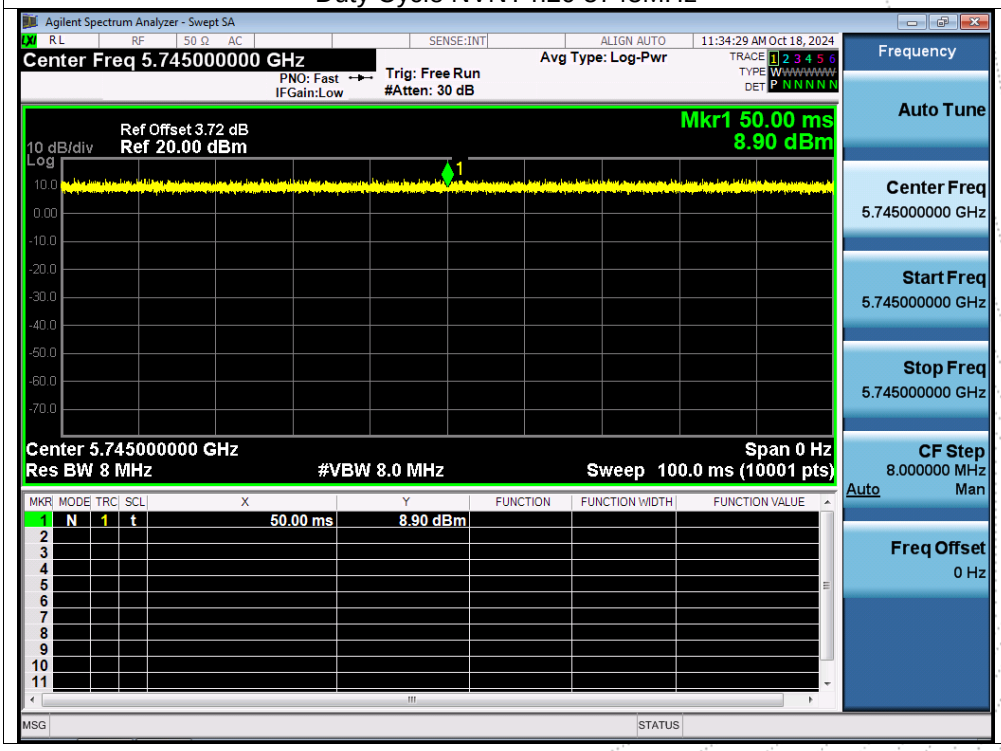
ANT B

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	100	0	0.01
NVNT	n20	5745	100	0	0.01
NVNT	n40	5755	100	0	0.01
NVNT	ac20	5745	100	0	0.01
NVNT	ac40	5755	100	0	0.01
NVNT	ac80	5775	100	0	0.01
NVNT	ax20	5745	100	0	0.01
NVNT	ax40	5755	100	0	0.01
NVNT	ax80	5775	100	0	0.01

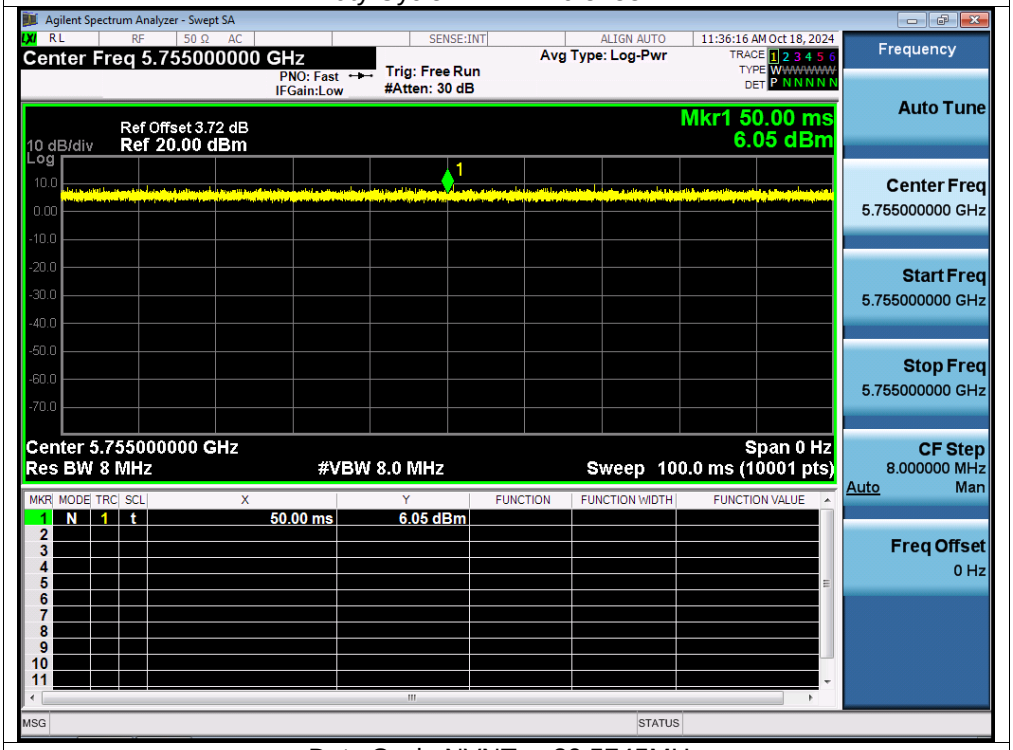
Test Graphs

Duty Cycle NVNT a 5745MHz

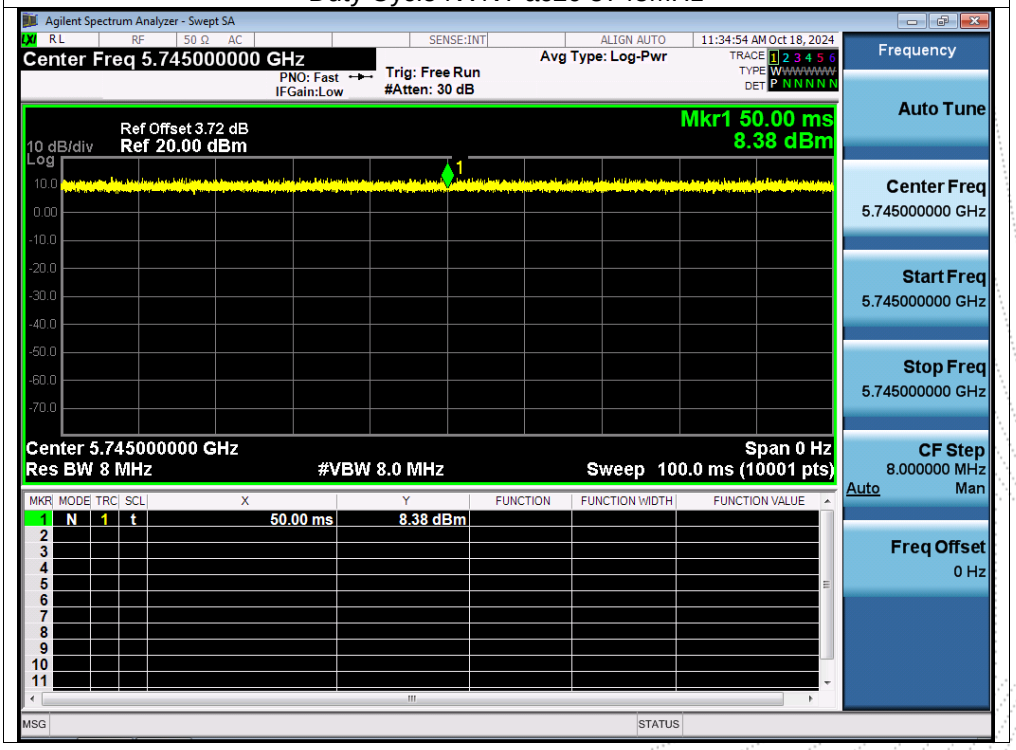
Duty Cycle NVNT n20 5745MHz



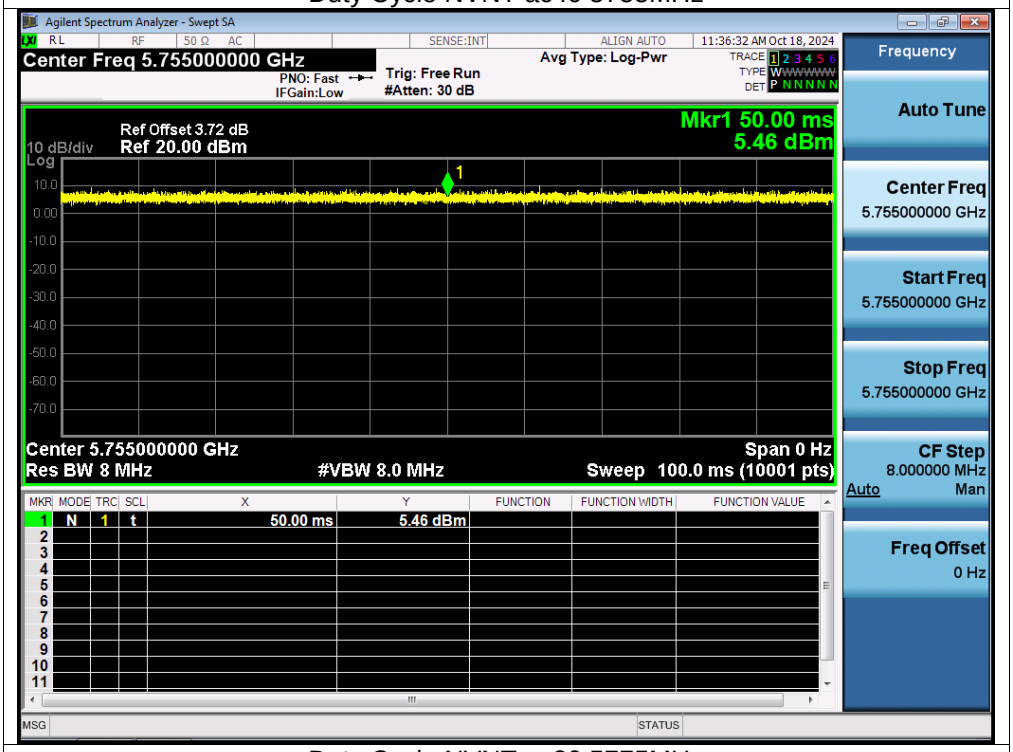
Duty Cycle NVNT n40 5755MHz



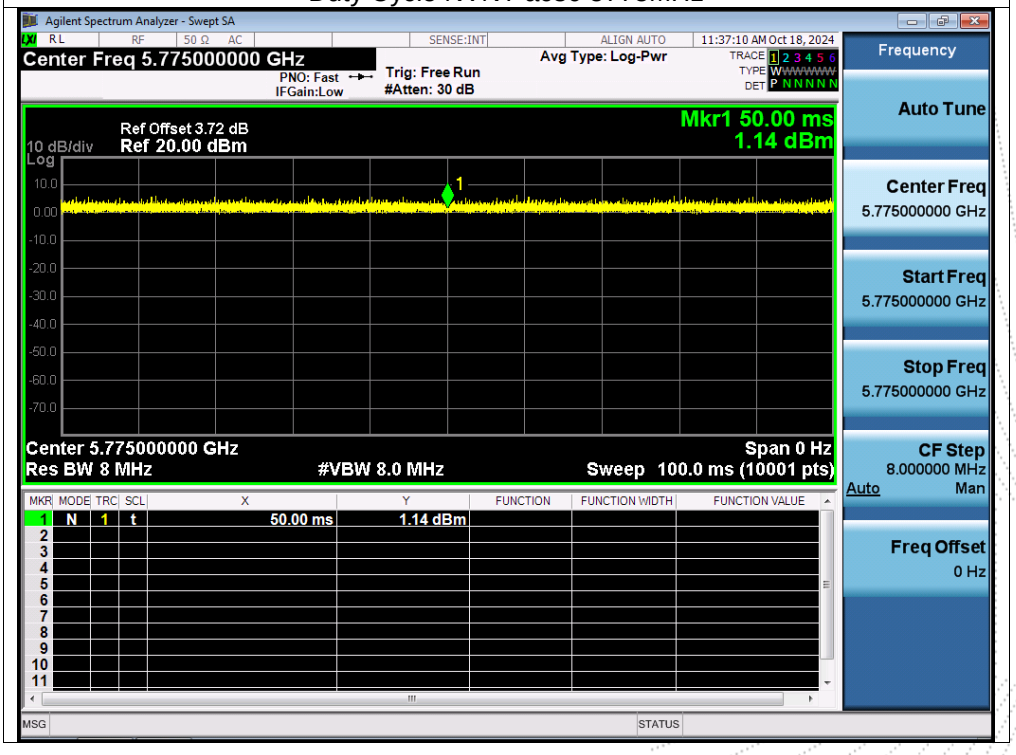
Duty Cycle NVNT ac20 5745MHz



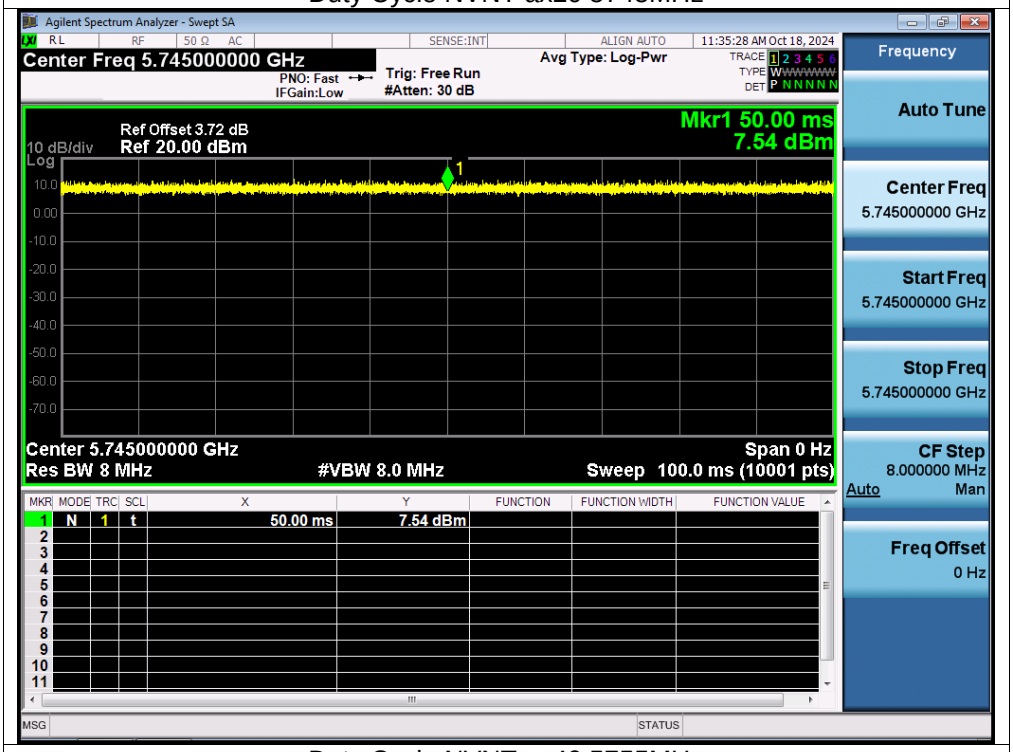
Duty Cycle NVNT ac40 5755MHz



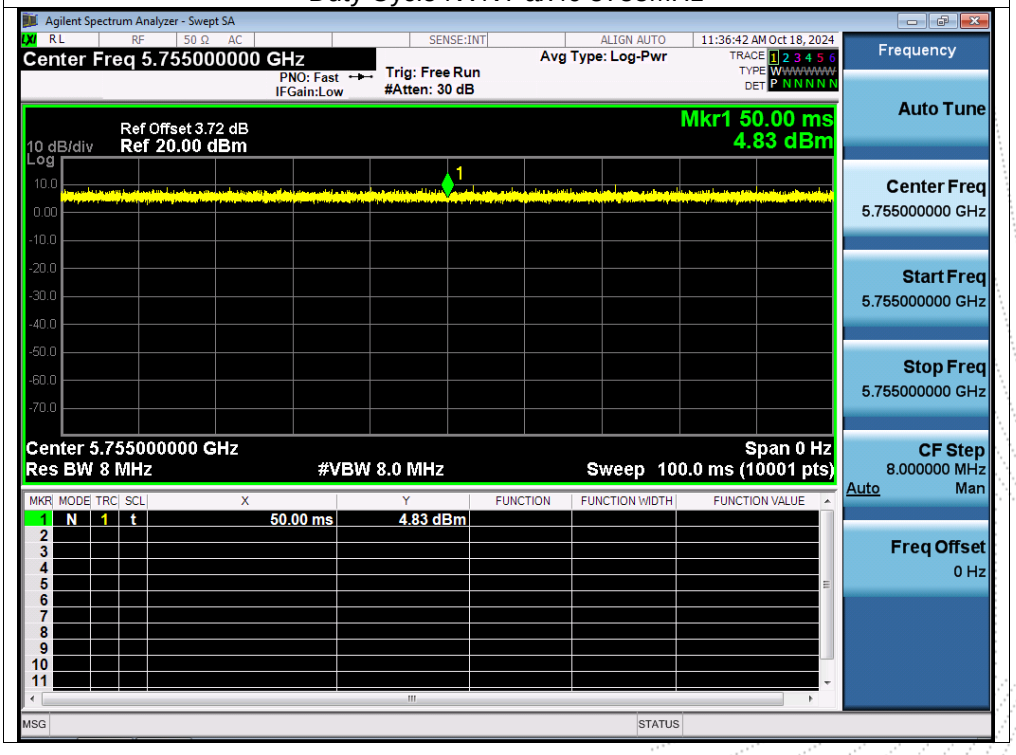
Duty Cycle NVNT ac80 5775MHz



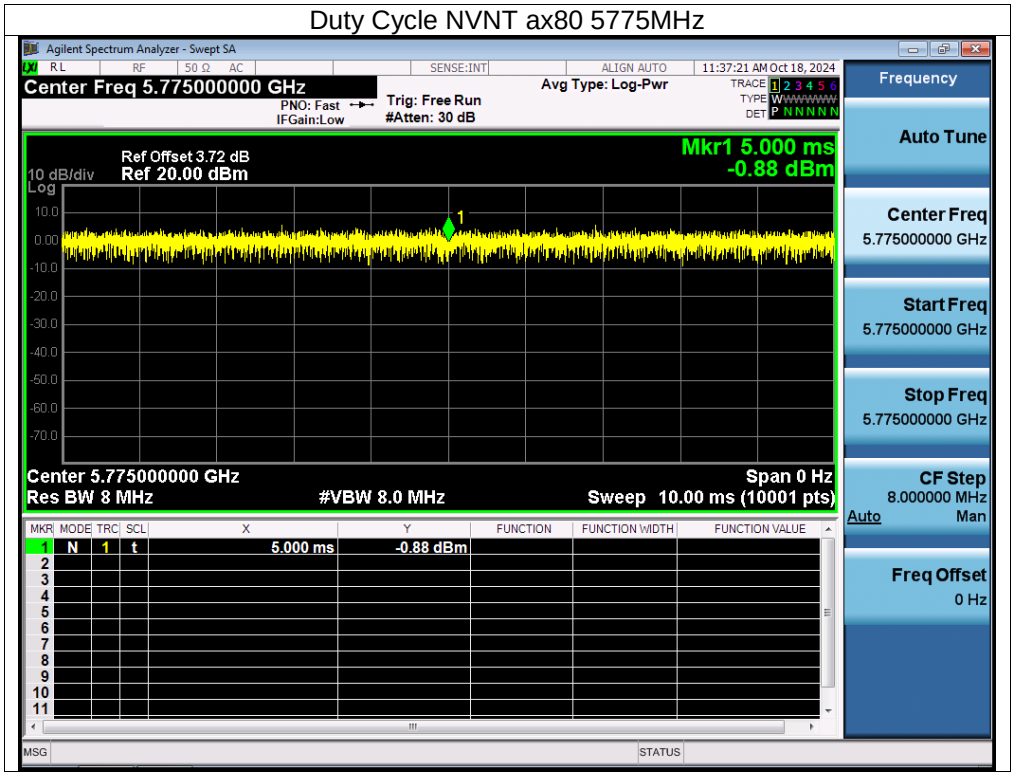
Duty Cycle NVNT ax20 5745MHz



Duty Cycle NVNT ax40 5755MHz



Duty Cycle NVNT ax80 5775MHz



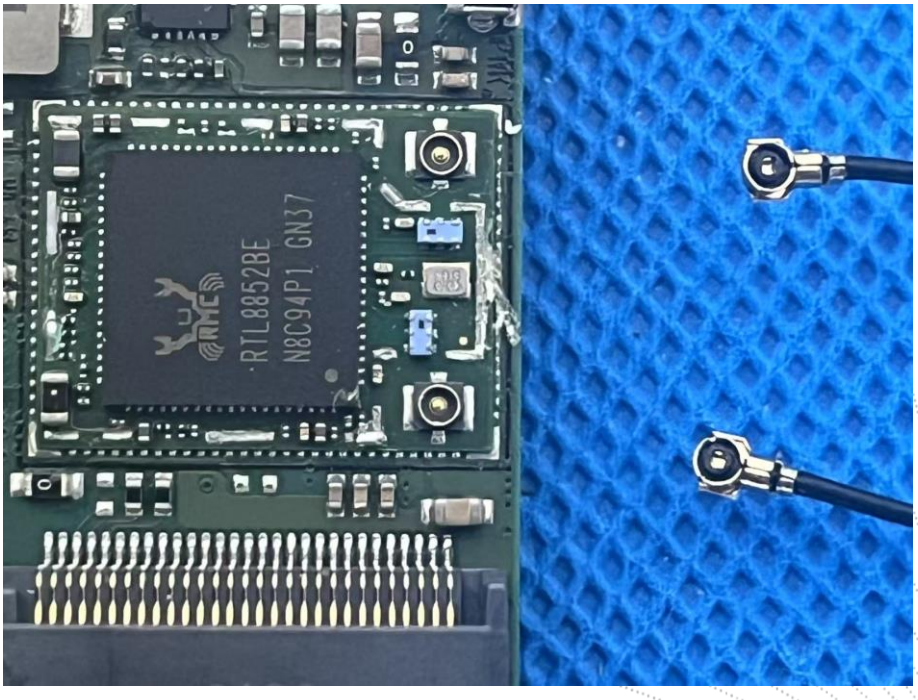
15. Antenna Requirement

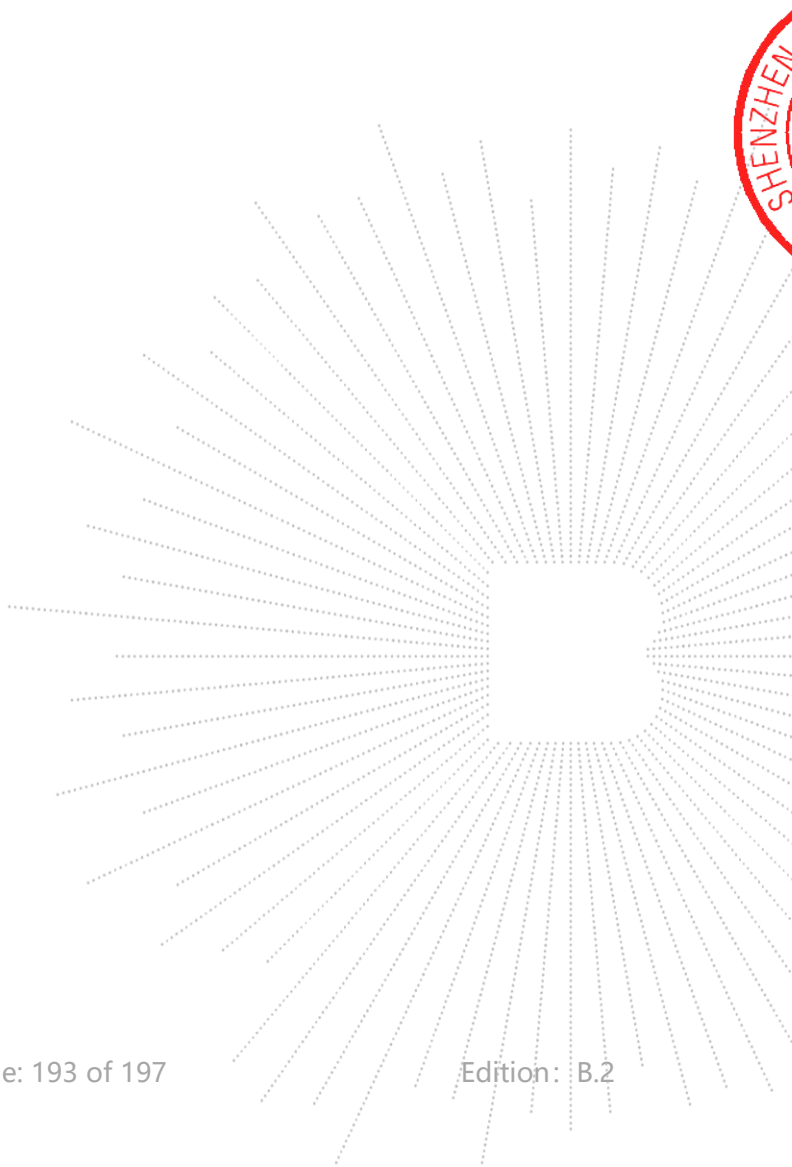
15.1 Limit

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

15.2 Test Result

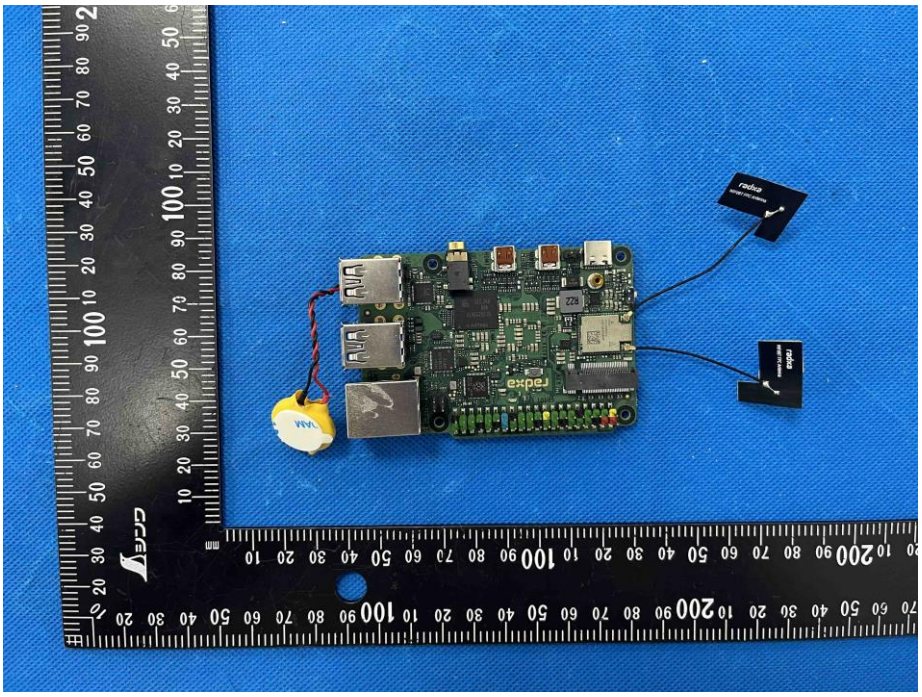
The EUT antenna is FPC antenna, antenna connector type is IPEX generation connector. It is a non-standard connector, fulfill the requirement of this section.





16. EUT Photographs

EUT Photo 1

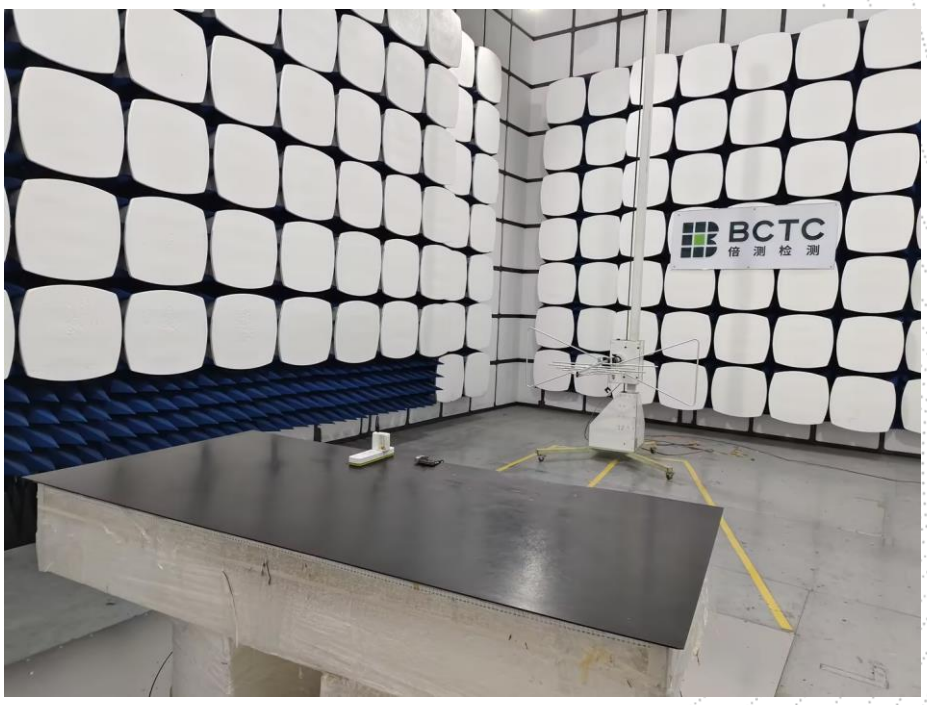


NOTE: Appendix-Photographs Of EUT Constructional Details.

17. EUT Test Setup Photographs

Conducted Measurement Photo

Radiated Measurement Photos

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STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The quality system of our laboratory is in accordance with ISO/IEC17025.

8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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