

TEST REPORT

Report No.: BCTC2408319656-4E

Applicant: Radxa Computer (Shenzhen) Co.,Ltd.

Product Name: Radxa ROCK 5C

Test Model: Radxa ROCK 5C D16R26

Tested Date: 2024-08-21 to 2024-08-30

Issued Date: 2024-09-02

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2BC6T-ROCK5C

Product Name: Radxa ROCK 5C

Trademark: 

Model/Type reference: Radxa ROCK 5C D16R26
Radxa ROCK 5C D1R26, Radxa ROCK 5C D2R26, Radxa ROCK 5C D4R26,
Radxa ROCK 5C D8R26, Radxa ROCK 5C D32R26, Radxa ROCK 5C D1R27,
Radxa ROCK 5C D2R27, Radxa ROCK 5C D4R27, Radxa ROCK 5C D8R27,
Radxa ROCK 5C D16R27, Radxa ROCK 5C D32R27

Prepared For: Radxa Computer (Shenzhen) Co.,Ltd.

Address: 1602, Smart Valley, tiezai Road, Gongle community, Xixiang, Baoan, Shenzhen

Manufacturer: Radxa Computer (Shenzhen) Co.,Ltd.

Address: 1602, Smart Valley, tiezai Road, Gongle community, Xixiang, Baoan, Shenzhen

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: 2024-08-21

Sample tested Date: 2024-08-21 to 2024-08-30

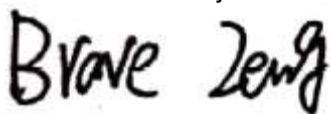
Issue Date: 2024-09-02

Report No.: BCTC2408319656-4E

Test Standards: FCC Part15 15.407
ANSI C63.10-2013
KDB 662911 D01 v02r01
KDB 789033 D02 v02r01

Test Results: PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

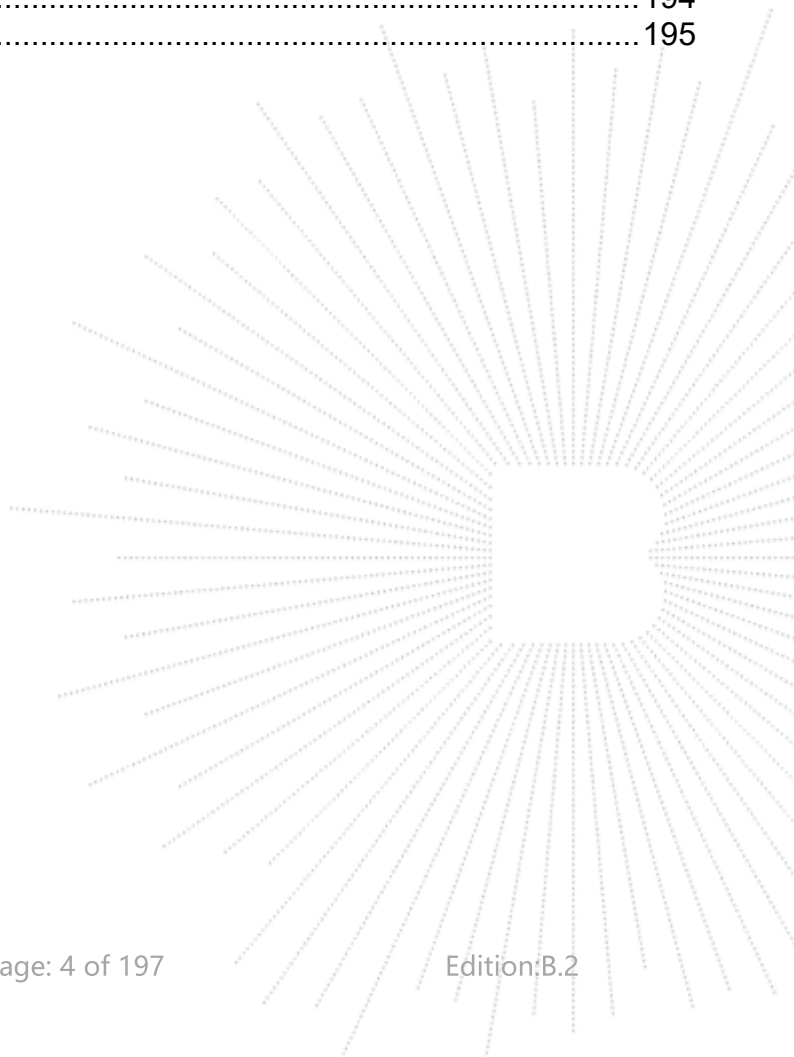
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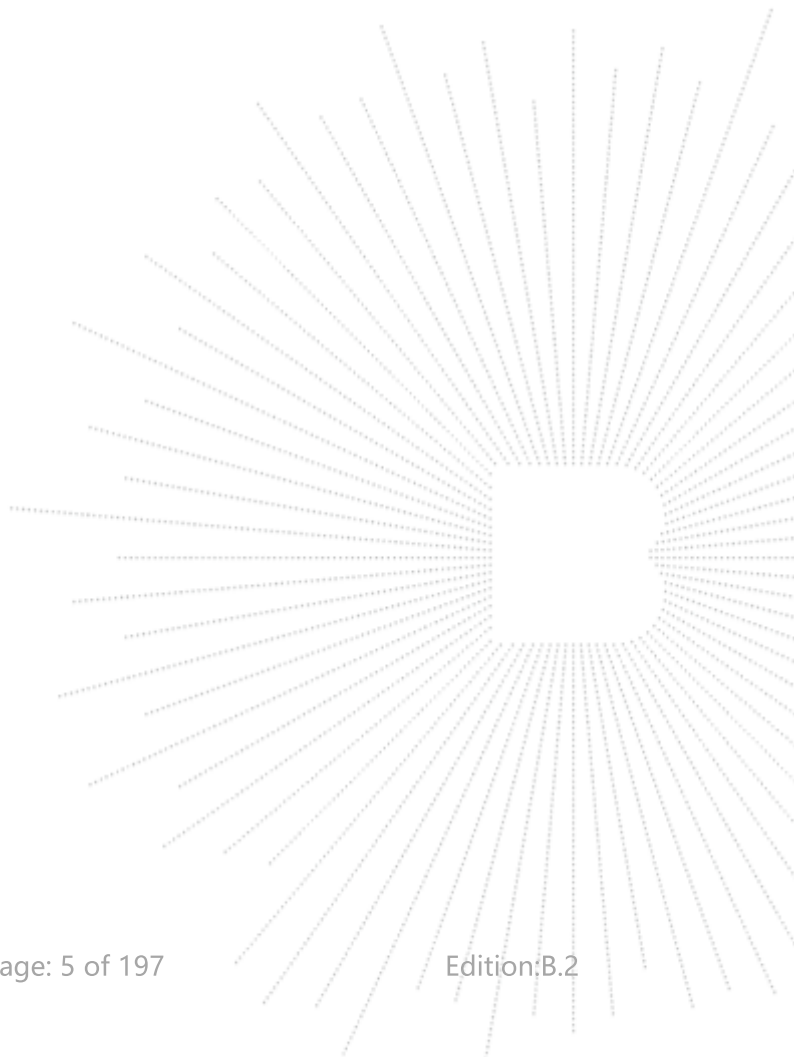
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2408319656-4E	2024-09-02	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

Note: The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure.

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°C

4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	Radxa ROCK 5C D16R26 Radxa ROCK 5C D1R26, Radxa ROCK 5C D2R26, Radxa ROCK 5C D4R26, Radxa ROCK 5C D8R26, Radxa ROCK 5C D32R26, Radxa ROCK 5C D1R27, Radxa ROCK 5C D2R27, Radxa ROCK 5C D4R27, Radxa ROCK 5C D8R27, Radxa ROCK 5C D16R27, Radxa ROCK 5C D32R27
Model differences:	All models are the same circuit and RF module, only the model name and memory size, and the SoC model are different.
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 1.42 dBi
Antenna Gain:	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 5V 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.

4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
1.	Adapter	HP	TPN-LA22	---	---
2.	keyboard	Logitech	1641MG01DLZ8	---	---
3.	Mouse	Logitech	M-U0026	---	---
4.	Earphone	IHIP	SBGE1	---	---
5.	U disk	SanDisk	32G	---	---
6.	Router	HUAWEI	WS318	---	---
7.	HDMI Cable	Belkin	HDMI2.0	---	---
8.	Display	ChangHong	55DBK	---	---

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	3M	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

Note: This prototype does not support RU mode.

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	BT+WIFI+HDMI+RJ45+keyboard+Mouse+USB+Earphone

Note:

- 1.The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
- 2.We're testing antenna A data.

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

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

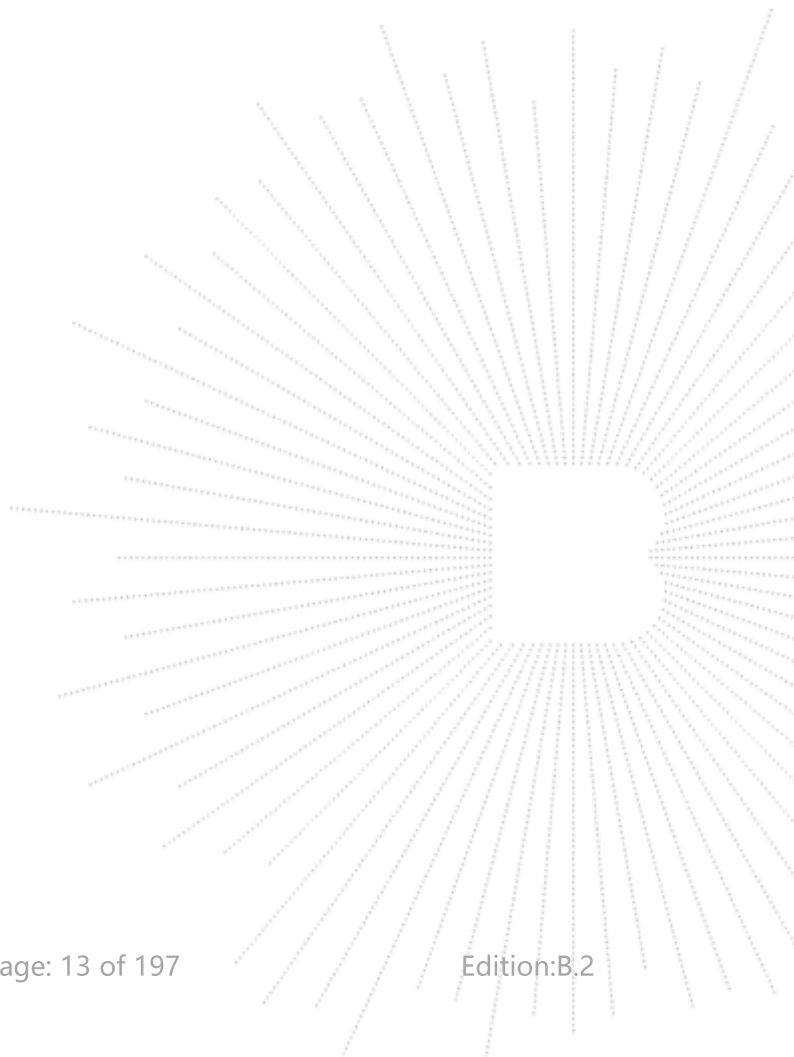
ISED CAB identifier: CN0017

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

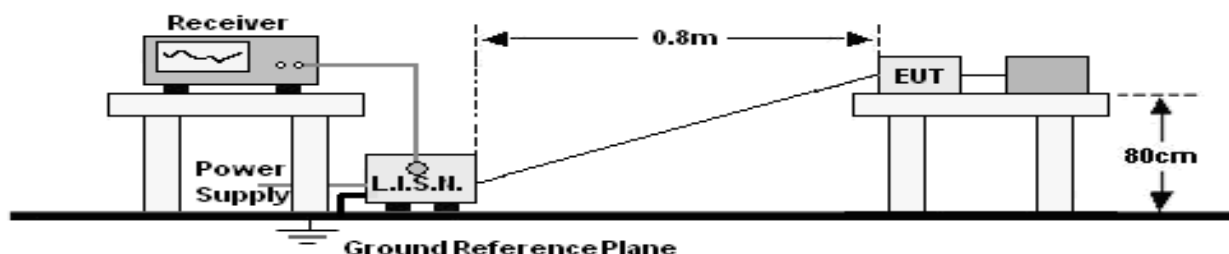
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 16, 2024	May 15, 2025
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Radio frequency control box	MAIWEI	MW100-RFC B	\	\	\
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_01G18 G-45dB	SK2021040901	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 16, 2024	May 15, 2025
Horn Antenna(18G Hz-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. The tighter limit applies at the band edges.
2. The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

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.

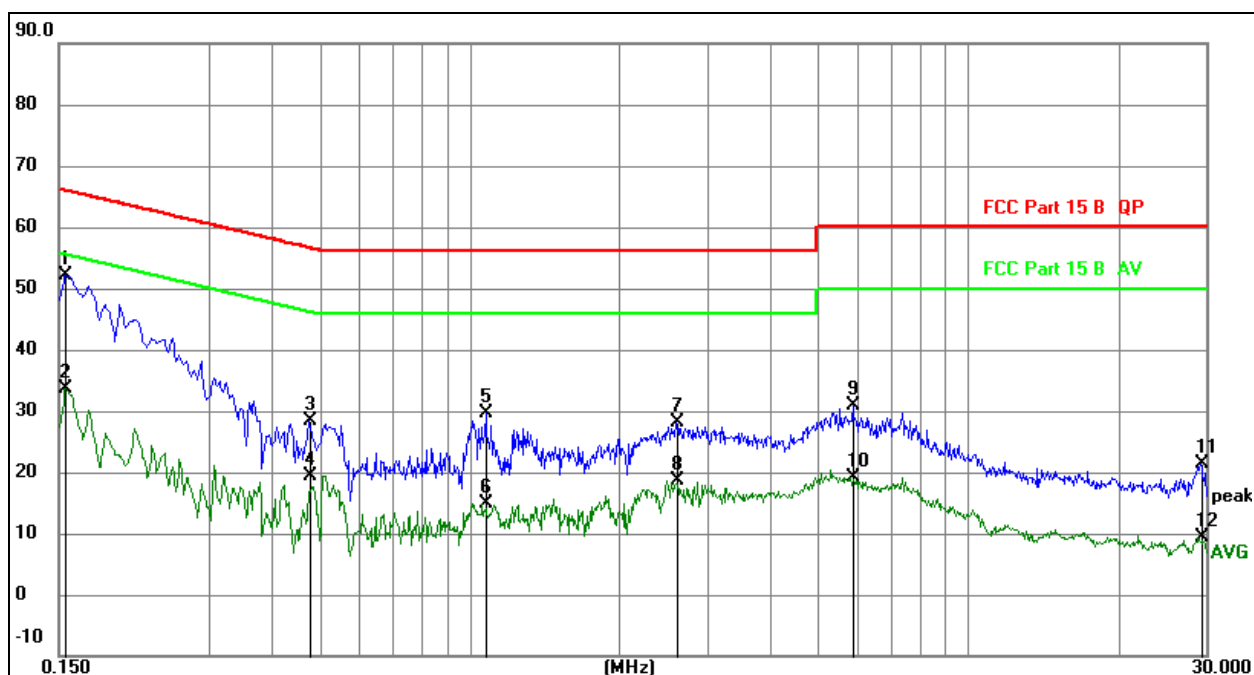
6.4 EUT Operating Conditions

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

RK3582

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

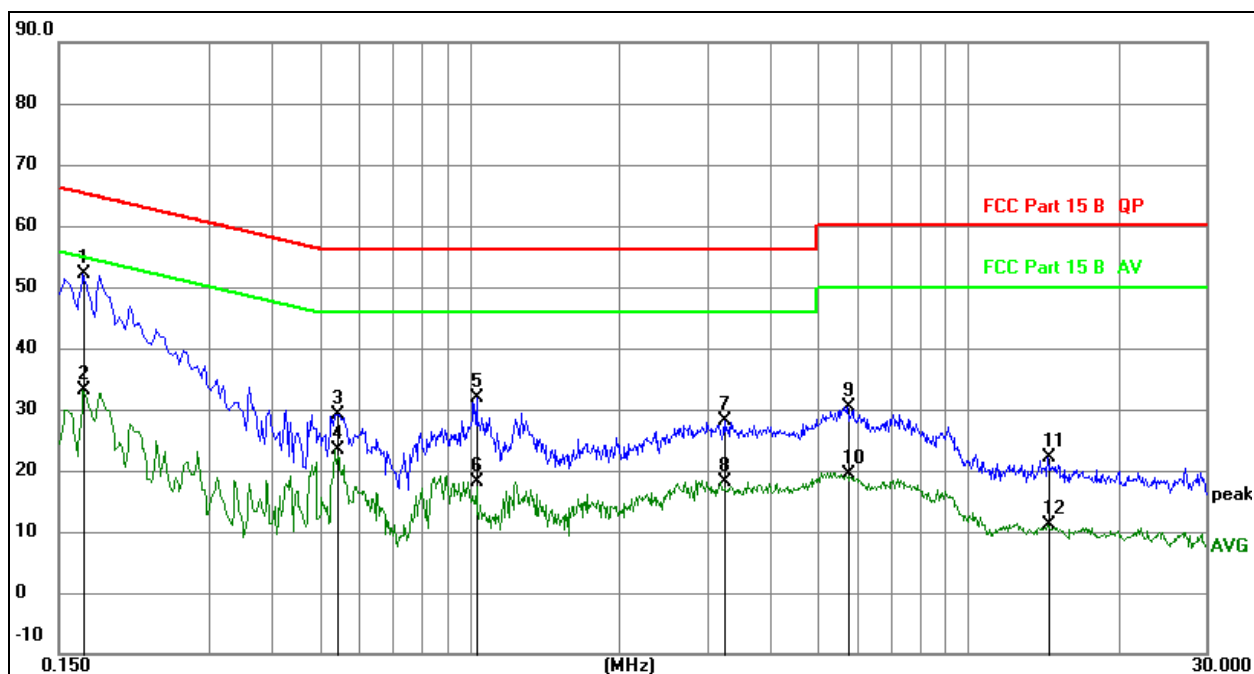


Remark:

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. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1545	31.97	20.07	52.04	65.75	-13.71	QP
2		0.1545	13.52	20.07	33.59	55.75	-22.16	AVG
3		0.4785	8.22	20.08	28.30	56.37	-28.07	QP
4		0.4785	-0.62	20.08	19.46	46.37	-26.91	AVG
5		1.0770	9.54	20.09	29.63	56.00	-26.37	QP
6		1.0770	-5.33	20.09	14.76	46.00	-31.24	AVG
7		2.6070	8.09	20.11	28.20	56.00	-27.80	QP
8		2.6070	-1.51	20.11	18.60	46.00	-27.40	AVG
9		5.8830	10.80	20.15	30.95	60.00	-29.05	QP
10		5.8830	-1.01	20.15	19.14	50.00	-30.86	AVG
11		29.3505	1.16	20.27	21.43	60.00	-38.57	QP
12		29.3505	-10.98	20.27	9.29	50.00	-40.71	AVG

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



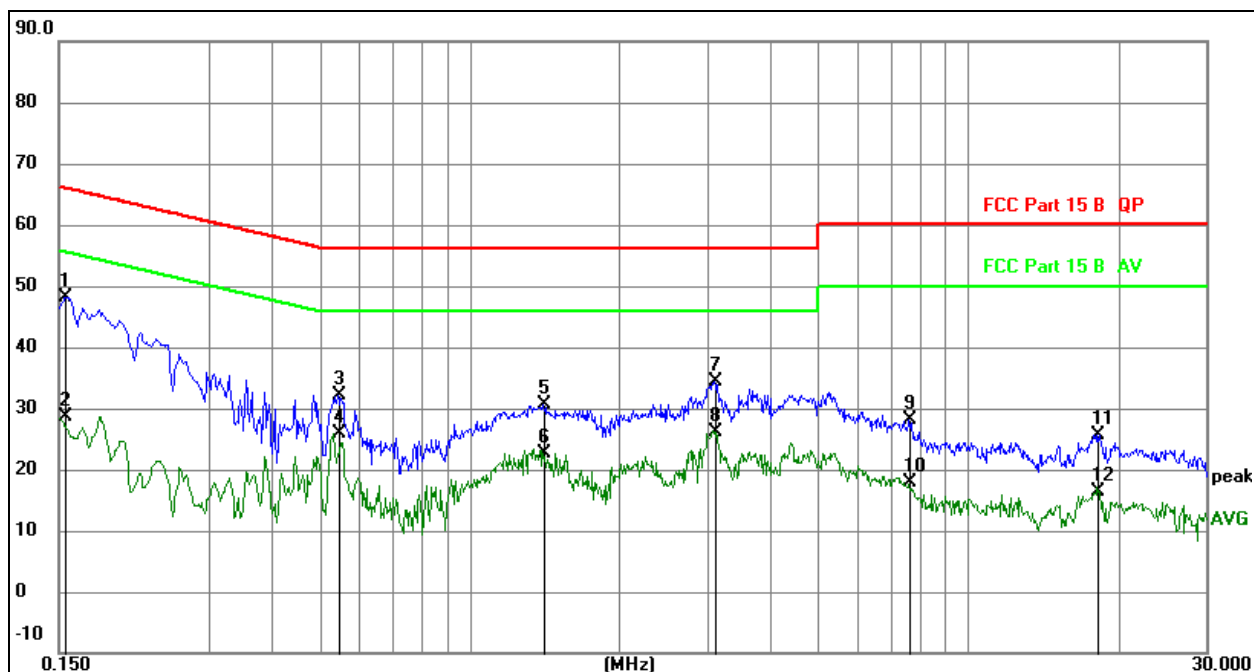
Remark:

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. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1680	31.95	20.07	52.02	65.06	-13.04	QP
2		0.1680	13.16	20.07	33.23	55.06	-21.83	AVG
3		0.5415	9.14	20.08	29.22	56.00	-26.78	QP
4		0.5415	3.33	20.08	23.41	46.00	-22.59	AVG
5		1.0320	11.90	20.09	31.99	56.00	-24.01	QP
6		1.0320	-1.86	20.09	18.23	46.00	-27.77	AVG
7		3.2505	7.90	20.13	28.03	56.00	-27.97	QP
8		3.2505	-2.10	20.13	18.03	46.00	-27.97	AVG
9		5.7390	10.31	20.15	30.46	60.00	-29.54	QP
10		5.7390	-0.88	20.15	19.27	50.00	-30.73	AVG
11		14.4645	1.79	20.29	22.08	60.00	-37.92	QP
12		14.4645	-9.27	20.29	11.02	50.00	-38.98	AVG

RK3588S2

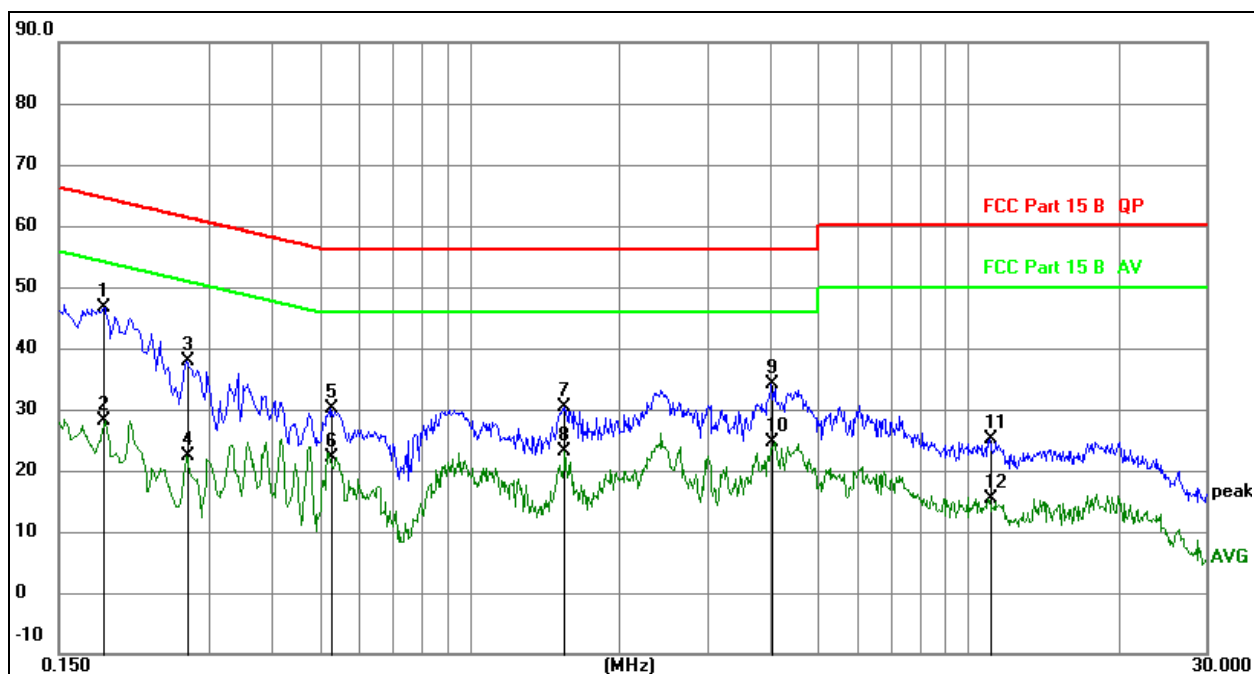
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz


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. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1544	28.16	20.07	48.23	65.76	-17.53	QP
2		0.1544	8.52	20.07	28.59	55.76	-27.17	AVG
3		0.5459	12.06	20.08	32.14	56.00	-23.86	QP
4		0.5459	5.81	20.08	25.89	46.00	-20.11	AVG
5		1.4100	10.50	20.09	30.59	56.00	-25.41	QP
6		1.4100	2.55	20.09	22.64	46.00	-23.36	AVG
7		3.1065	14.33	20.12	34.45	56.00	-21.55	QP
8		3.1065	6.13	20.12	26.25	46.00	-19.75	AVG
9		7.6333	7.91	20.16	28.07	60.00	-31.93	QP
10		7.6333	-2.26	20.16	17.90	50.00	-32.10	AVG
11		18.1453	5.28	20.32	25.60	60.00	-34.40	QP
12		18.1453	-3.96	20.32	16.36	50.00	-33.64	AVG

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


Remark:

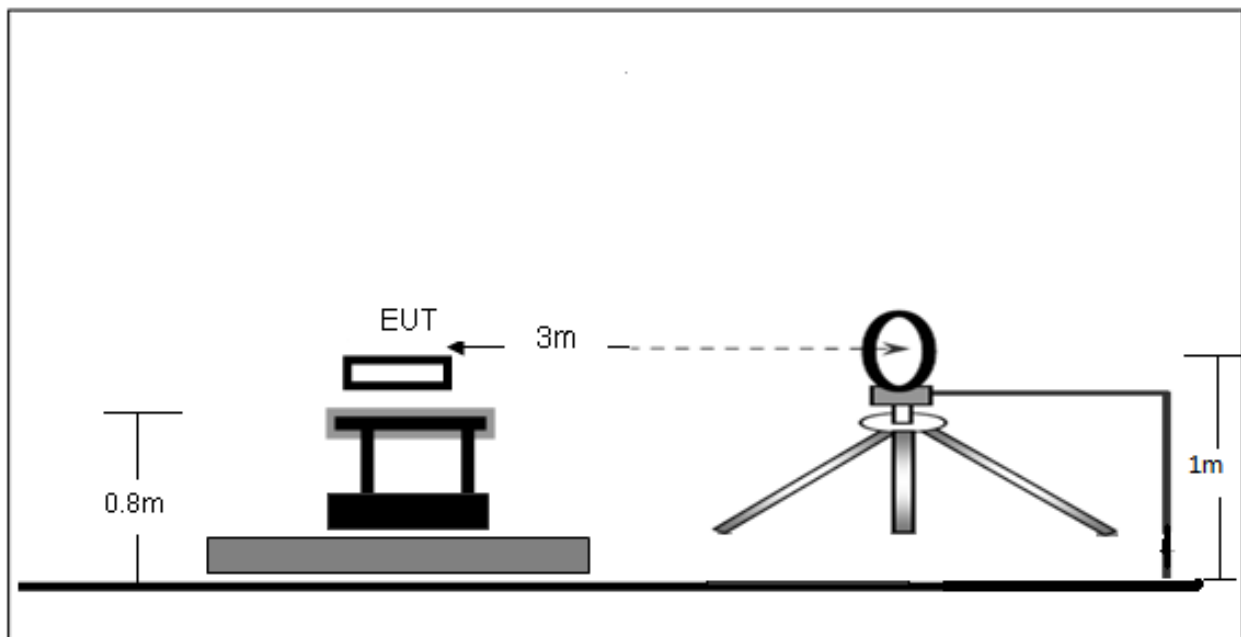
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over= Measurement-Limit

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1844	26.60	20.07	46.67	64.29	-17.62	QP
2		0.1844	8.15	20.07	28.22	54.29	-26.07	AVG
3		0.2714	17.73	20.07	37.80	61.07	-23.27	QP
4		0.2714	2.19	20.07	22.26	51.07	-28.81	AVG
5		0.5279	10.04	20.08	30.12	56.00	-25.88	QP
6		0.5279	2.15	20.08	22.23	46.00	-23.77	AVG
7		1.5494	10.27	20.10	30.37	56.00	-25.63	QP
8		1.5494	2.92	20.10	23.02	46.00	-22.98	AVG
9		4.0425	13.87	20.14	34.01	56.00	-21.99	QP
10		4.0425	4.58	20.14	24.72	46.00	-21.28	AVG
11		11.0265	4.85	20.20	25.05	60.00	-34.95	QP
12		11.0265	-4.70	20.20	15.50	50.00	-34.50	AVG

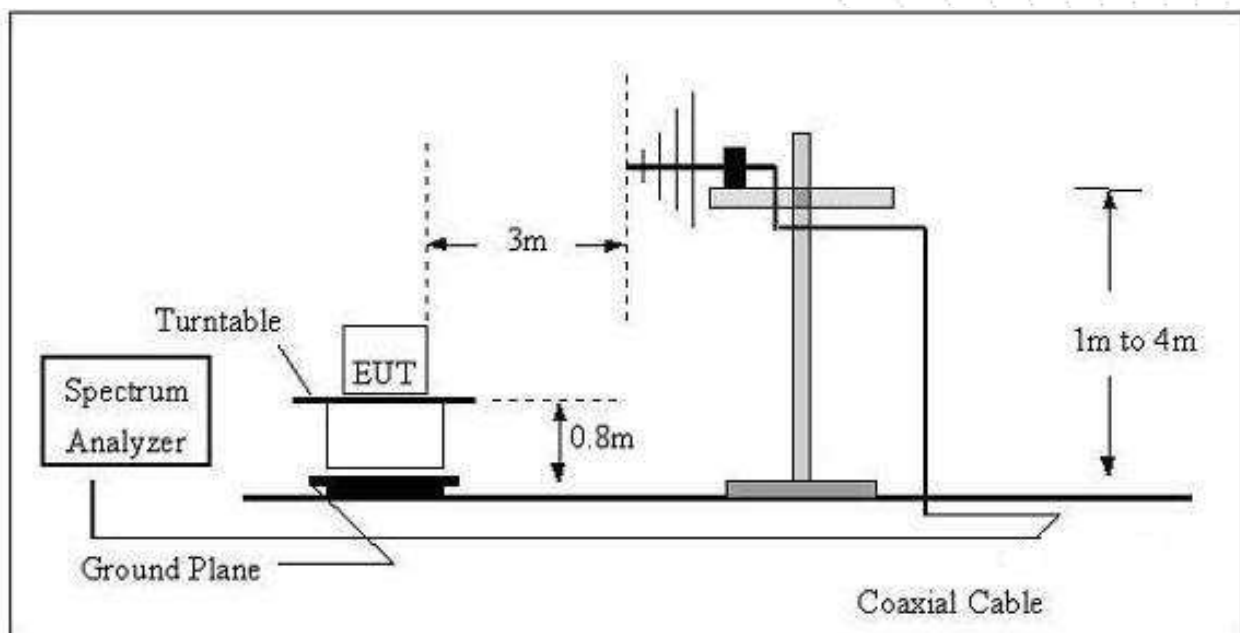
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

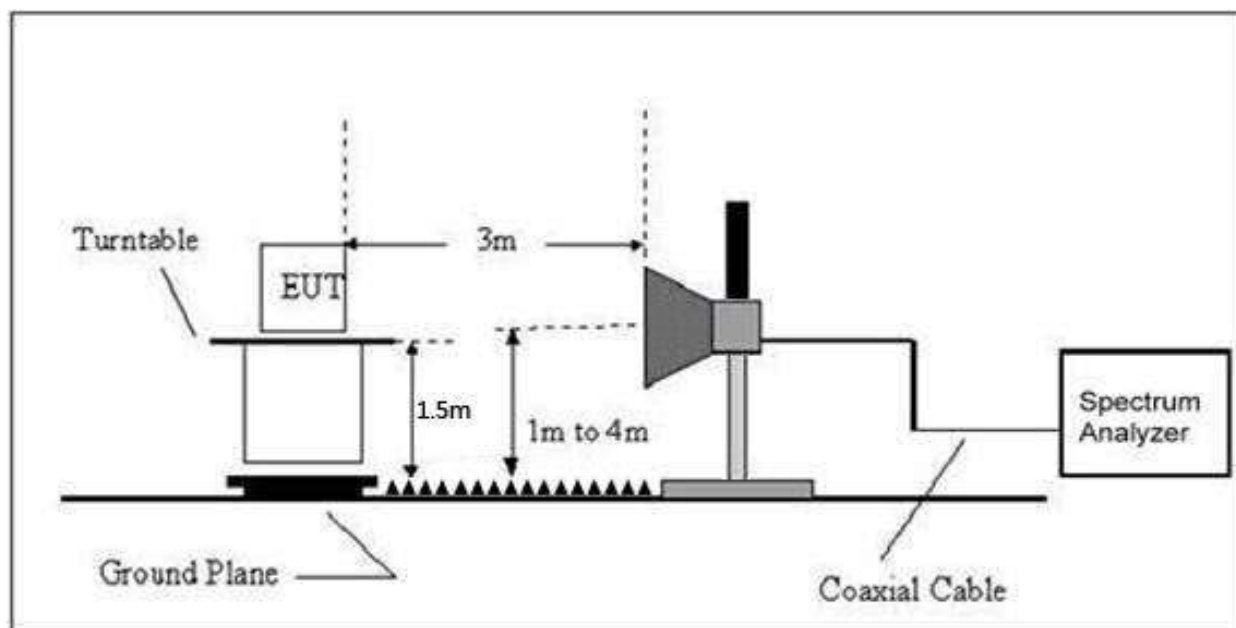
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 (MHz)	Field Strength uV/m	Distance (m)	Field Strength Limit at 3m Distance	
			uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log(2400/F(\text{kHz})) + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log(24000/F(\text{kHz})) + 40$
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

- 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.
- 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.
- 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.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the 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.
- 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 $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW [kHz]})$. , 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°C	Relative Humidity:	24%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4	Polarization :	--

Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State 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.

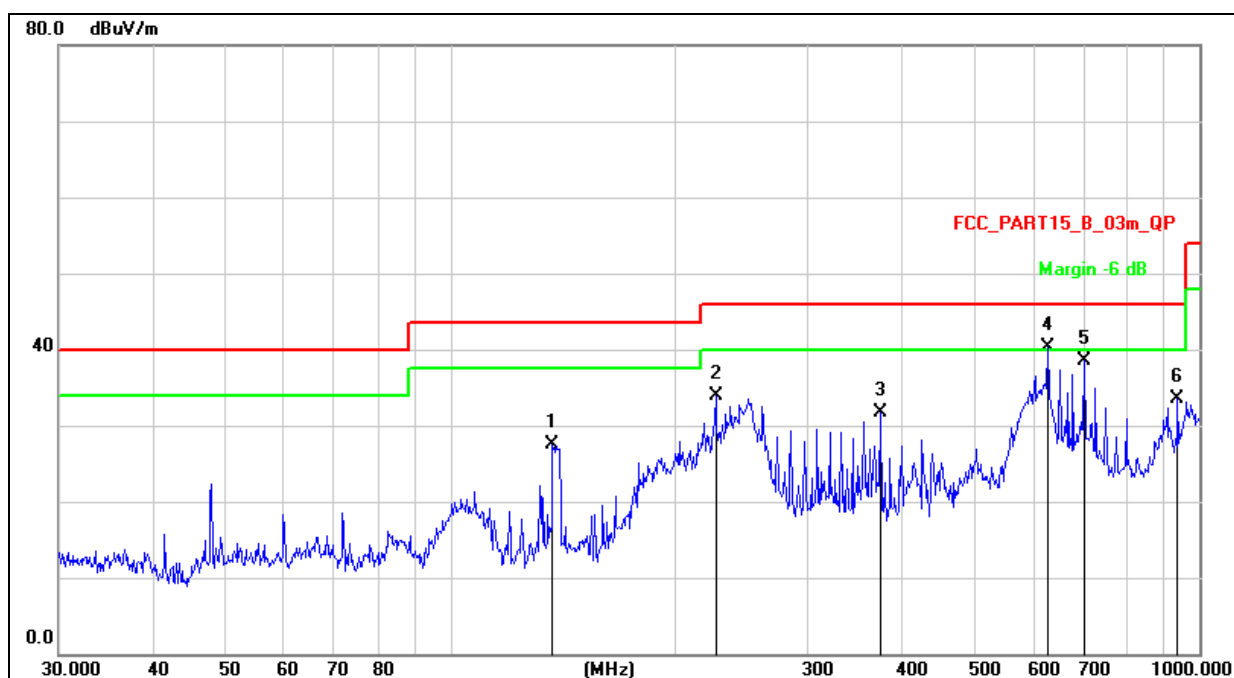
Distance extrapolation factor = $40 \log (\text{specific distance/test distance})(\text{dB})$;

Limit line = specific limits(dBuv) + distance extrapolation factor.

Between 30MHz – 1GHz

RK3582

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

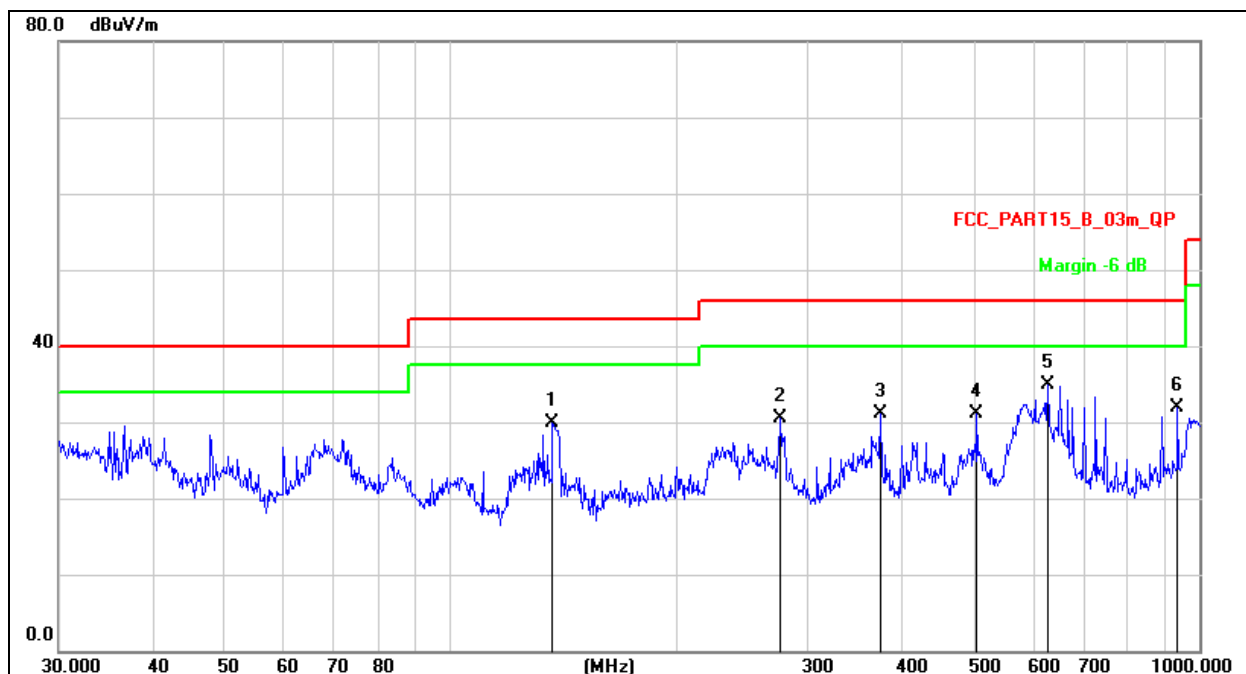


Remark:

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	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		136.9391	46.01	-18.52	27.49	43.50	-16.01	QP
2		226.0994	48.97	-14.97	34.00	46.00	-12.00	QP
3		375.9385	42.77	-11.15	31.62	46.00	-14.38	QP
4	*	627.2738	46.76	-6.55	40.21	46.00	-5.79	QP
5		701.7610	44.21	-5.68	38.53	46.00	-7.47	QP
6		935.5463	36.50	-2.99	33.51	46.00	-12.49	QP

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



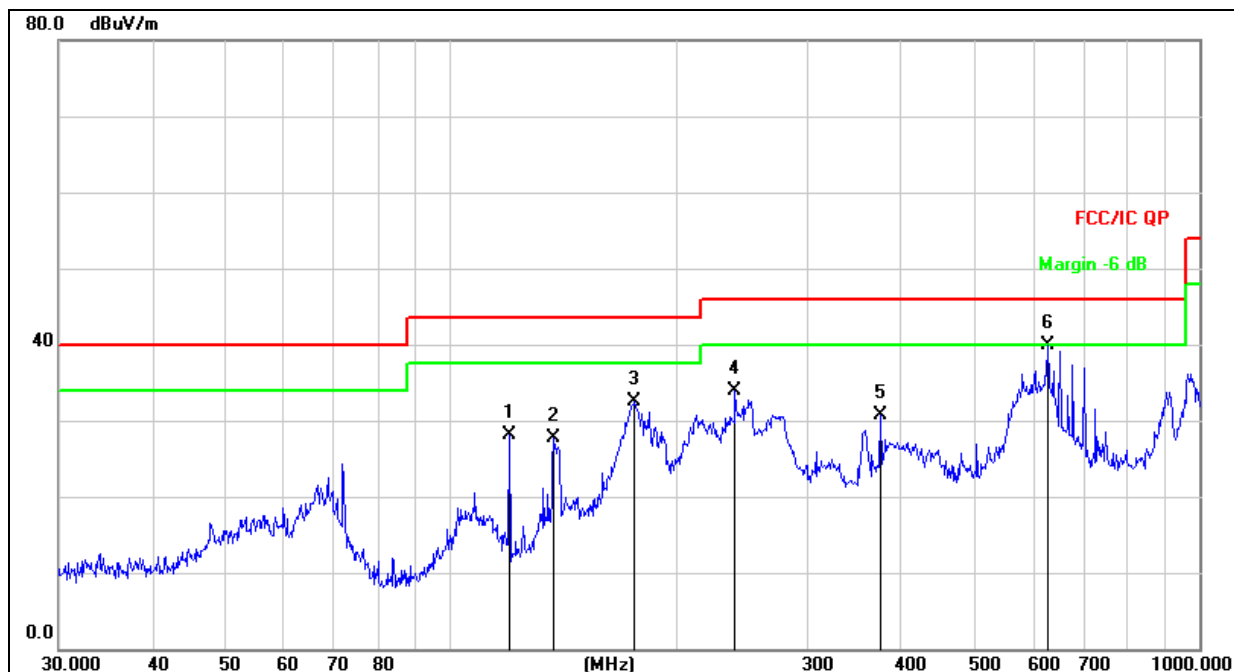
Remark:

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	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		136.9391	48.41	-18.52	29.89	43.50	-13.61	QP
2		276.1235	44.27	-13.74	30.53	46.00	-15.47	QP
3		375.9385	42.19	-11.15	31.04	46.00	-14.96	QP
4		504.7062	39.81	-8.78	31.03	46.00	-14.97	QP
5	*	627.2738	41.40	-6.55	34.85	46.00	-11.15	QP
6		935.5463	34.98	-2.99	31.99	46.00	-14.01	QP

RK3588S2

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

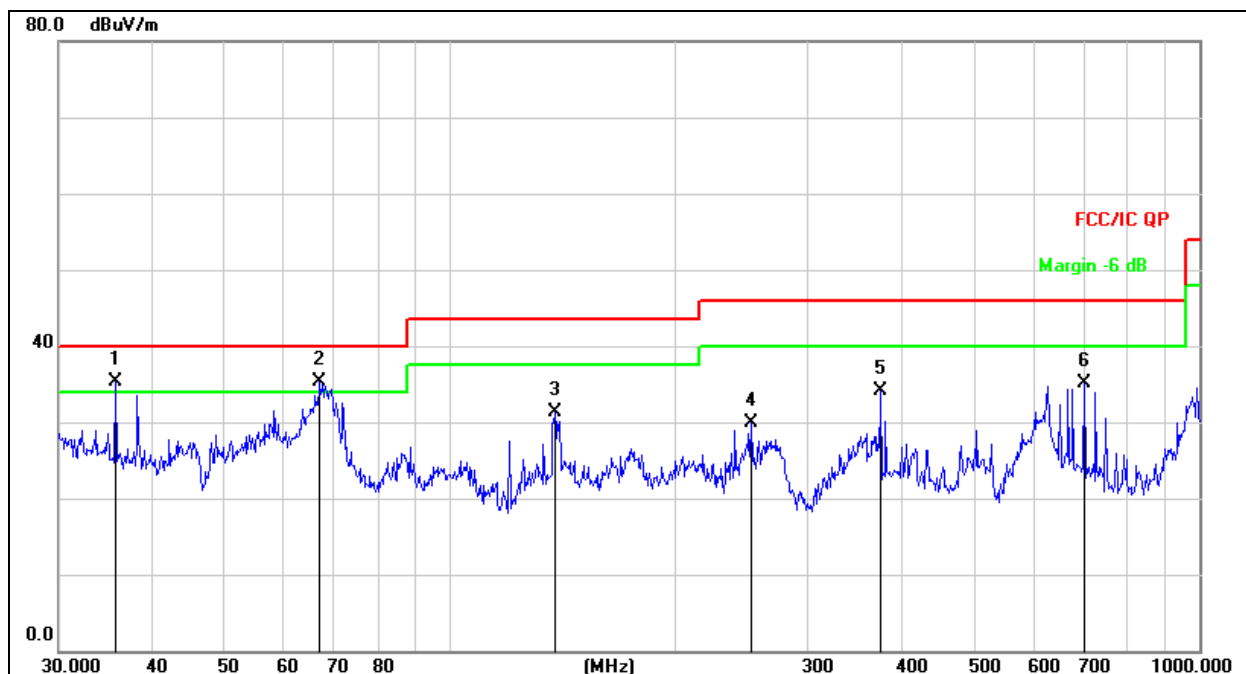


Remark:

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		119.8556	45.43	-17.32	28.11	43.50	-15.39	QP
2		137.4202	46.22	-18.55	27.67	43.50	-15.83	QP
3		176.2686	49.97	-17.48	32.49	43.50	-11.01	QP
4		239.9874	48.50	-14.58	33.92	46.00	-12.08	QP
5		375.9385	41.92	-11.15	30.77	46.00	-15.23	QP
6	*	627.2738	46.36	-6.55	39.81	46.00	-6.19	QP

Temperature:	26 °C	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	*	35.7490	50.85	-15.54	35.31	40.00	-4.69	QP
2	!	66.9669	52.45	-17.17	35.28	40.00	-4.72	QP
3		137.9028	49.98	-18.58	31.40	43.50	-12.10	QP
4		252.0627	44.24	-14.25	29.99	46.00	-16.01	QP
5		375.9385	45.24	-11.15	34.09	46.00	-11.91	QP
6		701.7610	40.71	-5.68	35.03	46.00	-10.97	QP

Between 1GHz – 40GHz

Test Mode:	TX(5.1G) - 802.11a
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.02	74.40	-20.73	53.67	68.20	-14.53	PK
Vertical	4434.02	59.38	-20.73	38.65	54.00	-15.35	AV
Vertical	10360.14	64.01	-9.36	54.65	68.20	-13.55	PK
Vertical	10360.14	49.67	-9.36	40.31	54.00	-13.69	AV
Vertical	15540.02	63.54	-7.84	55.70	74.00	-18.30	PK
Vertical	15540.02	49.68	-7.84	41.84	54.00	-12.16	AV
Horizontal	4434.14	73.85	-20.73	53.12	68.20	-15.08	PK
Horizontal	4434.14	59.36	-20.73	38.63	54.00	-15.37	AV
Horizontal	10360.19	64.71	-9.36	55.35	68.20	-12.85	PK
Horizontal	10360.19	49.79	-9.36	40.43	54.00	-13.57	AV
Horizontal	15540.16	62.13	-7.84	54.29	74.00	-19.71	PK
Horizontal	15540.16	49.42	-7.84	41.58	54.00	-12.42	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.15	72.96	-20.42	52.54	74.00	-21.46	PK
Vertical	4592.15	59.04	-20.42	38.62	54.00	-15.38	AV
Vertical	10400.08	62.56	-9.30	53.26	68.20	-14.94	PK
Vertical	10400.08	49.37	-9.30	40.07	54.00	-13.93	AV
Vertical	15600.07	64.19	-7.82	56.37	74.00	-17.63	PK
Vertical	15600.07	49.50	-7.82	41.68	54.00	-12.32	AV
Horizontal	4592.16	71.65	-20.42	51.23	74.00	-22.77	PK
Horizontal	4592.16	59.03	-20.42	38.62	54.00	-15.38	AV
Horizontal	10400.05	61.52	-9.30	52.22	68.20	-15.98	PK
Horizontal	10400.05	49.99	-9.30	40.69	54.00	-13.31	AV
Horizontal	15600.13	64.91	-7.82	57.09	74.00	-16.91	PK
Horizontal	15600.13	49.77	-7.82	41.95	54.00	-12.05	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.10	74.17	-20.12	54.05	74.00	-19.95	PK
Vertical	4739.10	59.27	-20.12	39.15	54.00	-14.85	AV
Vertical	10480.09	61.59	-9.18	52.41	68.20	-15.79	PK
Vertical	10480.09	49.02	-9.18	39.84	54.00	-14.16	AV
Vertical	15720.15	62.21	-7.78	54.43	74.00	-19.57	PK
Vertical	15720.15	49.42	-7.78	41.64	54.00	-12.36	AV
Horizontal	4739.18	73.36	-20.12	53.24	74.00	-20.76	PK
Horizontal	4739.18	59.15	-20.12	39.03	54.00	-14.97	AV
Horizontal	10480.04	63.96	-9.18	54.78	68.20	-13.42	PK
Horizontal	10480.04	49.76	-9.18	40.58	54.00	-13.42	AV
Horizontal	15720.17	60.95	-7.78	53.17	74.00	-20.83	PK
Horizontal	15720.17	49.91	-7.78	42.13	54.00	-11.87	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
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.01	73.18	-20.73	52.45	68.20	-15.75	PK
Vertical	4434.01	59.26	-20.73	38.53	54.00	-15.47	AV
Vertical	10360.11	64.08	-9.36	54.72	68.20	-13.48	PK
Vertical	10360.11	49.50	-9.36	40.14	54.00	-13.86	AV
Vertical	15540.07	63.17	-7.84	55.33	74.00	-18.67	PK
Vertical	15540.07	49.73	-7.84	41.89	54.00	-12.11	AV
Horizontal	4434.03	74.22	-20.73	53.49	68.20	-14.71	PK
Horizontal	4434.03	59.88	-20.73	39.15	54.00	-14.85	AV
Horizontal	10360.16	61.34	-9.36	51.98	68.20	-16.22	PK
Horizontal	10360.16	49.55	-9.36	40.19	54.00	-13.81	AV
Horizontal	15540.10	61.91	-7.84	54.07	74.00	-19.93	PK
Horizontal	15540.10	49.49	-7.84	41.65	54.00	-12.35	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.17	74.50	-20.42	54.08	74.00	-19.92	PK
Vertical	4592.17	59.29	-20.42	38.87	54.00	-15.13	AV
Vertical	10400.09	64.67	-9.30	55.37	68.20	-12.83	PK
Vertical	10400.09	49.28	-9.30	39.98	54.00	-14.02	AV
Vertical	15600.13	63.66	-7.82	55.84	74.00	-18.16	PK
Vertical	15600.13	49.78	-7.82	41.96	54.00	-12.04	AV
Horizontal	4592.07	70.73	-20.42	50.31	74.00	-23.69	PK
Horizontal	4592.07	59.16	-20.42	38.75	54.00	-15.25	AV
Horizontal	10400.19	63.61	-9.30	54.31	68.20	-13.89	PK
Horizontal	10400.19	49.40	-9.30	40.10	54.00	-13.90	AV
Horizontal	15600.08	60.27	-7.82	52.45	74.00	-21.55	PK
Horizontal	15600.08	49.79	-7.82	41.97	54.00	-12.03	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.09	74.18	-20.12	54.05	74.00	-19.95	PK
Vertical	4739.09	59.41	-20.12	39.28	54.00	-14.72	AV
Vertical	10480.18	62.11	-9.18	52.93	68.20	-15.27	PK
Vertical	10480.18	49.43	-9.18	40.25	54.00	-13.75	AV
Vertical	15720.09	60.89	-7.78	53.11	74.00	-20.89	PK
Vertical	15720.09	49.57	-7.78	41.79	54.00	-12.21	AV
Horizontal	4739.12	73.94	-20.12	53.82	74.00	-20.18	PK
Horizontal	4739.12	59.90	-20.12	39.78	54.00	-14.22	AV
Horizontal	10480.14	63.67	-9.18	54.49	68.20	-13.71	PK
Horizontal	10480.14	49.30	-9.18	40.12	54.00	-13.88	AV
Horizontal	15720.05	64.44	-7.78	56.66	74.00	-17.34	PK
Horizontal	15720.05	49.69	-7.78	41.91	54.00	-12.09	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:	TX(5.1G) - 802.11n-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.07	74.62	-20.73	53.88	68.20	-14.32	PK
Vertical	4434.07	59.25	-20.73	38.52	54.00	-15.48	AV
Vertical	10380.06	63.70	-9.33	54.37	68.20	-13.83	PK
Vertical	10380.06	49.48	-9.33	40.15	54.00	-13.85	AV
Vertical	15570.14	64.08	-7.83	56.25	74.00	-17.75	PK
Vertical	15570.14	49.64	-7.83	41.81	54.00	-12.19	AV
Horizontal	4434.07	70.86	-20.73	50.13	74.00	-23.87	PK
Horizontal	4434.07	59.09	-20.73	38.36	54.00	-15.64	AV
Horizontal	10380.14	63.47	-9.33	54.14	68.20	-14.06	PK
Horizontal	10380.14	49.30	-9.33	39.97	54.00	-14.03	AV
Horizontal	15570.07	64.58	-7.83	56.75	74.00	-17.25	PK
Horizontal	15570.07	49.02	-7.83	41.19	54.00	-12.81	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.08	71.10	-20.12	50.98	68.20	-17.22	PK
Vertical	4739.08	59.30	-20.12	39.18	54.00	-14.82	AV
Vertical	10460.09	60.11	-9.21	50.90	68.20	-17.30	PK
Vertical	10460.09	49.11	-9.21	39.90	54.00	-14.10	AV
Vertical	15690.00	61.56	-7.79	53.77	74.00	-20.23	PK
Vertical	15690.00	49.93	-7.79	42.14	54.00	-11.86	AV
Horizontal	4739.11	74.01	-20.12	53.89	68.20	-14.31	PK
Horizontal	4739.11	59.06	-20.12	38.94	54.00	-15.06	AV
Horizontal	10460.11	64.26	-9.21	55.05	68.20	-13.15	PK
Horizontal	10460.11	49.09	-9.21	39.88	54.00	-14.12	AV
Horizontal	15690.17	61.88	-7.79	54.09	74.00	-19.91	PK
Horizontal	15690.17	49.41	-7.79	41.62	54.00	-12.38	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:	TX(5.1G) - 802.11ac-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.15	74.27	-20.73	53.54	68.20	-14.66	PK
Vertical	4434.15	59.94	-20.73	39.20	54.00	-14.80	AV
Vertical	10360.08	64.29	-9.36	54.93	68.20	-13.27	PK
Vertical	10360.08	49.45	-9.36	40.09	54.00	-13.91	AV
Vertical	15540.06	62.08	-7.84	54.24	74.00	-19.76	PK
Vertical	15540.06	49.66	-7.84	41.82	54.00	-12.18	AV
Horizontal	4434.18	72.58	-20.73	51.85	68.20	-16.35	PK
Horizontal	4434.18	59.07	-20.73	38.33	54.00	-15.67	AV
Horizontal	10360.02	61.97	-9.36	52.61	68.20	-15.59	PK
Horizontal	10360.02	49.88	-9.36	40.52	54.00	-13.48	AV
Horizontal	15540.16	60.12	-7.84	52.28	74.00	-21.72	PK
Horizontal	15540.16	49.69	-7.84	41.85	54.00	-12.15	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.06	73.93	-20.42	53.51	74.00	-20.49	PK
Vertical	4592.06	59.65	-20.42	39.23	54.00	-14.77	AV
Vertical	10400.08	64.08	-9.30	54.78	68.20	-13.42	PK
Vertical	10400.08	49.48	-9.30	40.18	54.00	-13.82	AV
Vertical	15600.15	63.86	-7.82	56.04	74.00	-17.96	PK
Vertical	15600.15	49.12	-7.82	41.30	54.00	-12.70	AV
Horizontal	4592.18	73.04	-20.42	52.62	74.00	-21.38	PK
Horizontal	4592.18	59.70	-20.42	39.29	54.00	-14.71	AV
Horizontal	10400.07	60.16	-9.30	50.86	68.20	-17.34	PK
Horizontal	10400.07	49.99	-9.30	40.69	54.00	-13.31	AV
Horizontal	15600.16	62.01	-7.82	54.19	74.00	-19.81	PK
Horizontal	15600.16	49.77	-7.82	41.95	54.00	-12.05	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.05	70.24	-20.12	50.12	74.00	-23.88	PK
Vertical	4739.05	59.83	-20.12	39.71	54.00	-14.29	AV
Vertical	10480.04	62.95	-9.18	53.77	68.20	-14.43	PK
Vertical	10480.04	49.16	-9.18	39.98	54.00	-14.02	AV
Vertical	15720.20	61.19	-7.78	53.41	74.00	-20.59	PK
Vertical	15720.20	49.20	-7.78	41.42	54.00	-12.58	AV
Horizontal	4739.13	70.24	-20.12	50.12	74.00	-23.88	PK
Horizontal	4739.13	59.23	-20.12	39.11	54.00	-14.89	AV
Horizontal	10480.08	64.88	-9.18	55.70	68.20	-12.50	PK
Horizontal	10480.08	49.63	-9.18	40.45	54.00	-13.55	AV
Horizontal	15720.13	62.49	-7.78	54.71	74.00	-19.29	PK
Horizontal	15720.13	49.56	-7.78	41.78	54.00	-12.22	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:	TX(5.1G) - 802.11ac-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.17	70.04	-20.73	49.31	68.20	-18.89	PK
Vertical	4434.17	59.36	-20.73	38.63	54.00	-15.37	AV
Vertical	10380.04	64.31	-9.33	54.98	68.20	-13.22	PK
Vertical	10380.04	49.51	-9.33	40.18	54.00	-13.82	AV
Vertical	15570.05	60.61	-7.83	52.78	74.00	-21.22	PK
Vertical	15570.05	49.78	-7.83	41.95	54.00	-12.05	AV
Horizontal	4434.02	70.67	-20.73	49.93	74.00	-24.07	PK
Horizontal	4434.02	59.78	-20.73	39.05	54.00	-14.95	AV
Horizontal	10380.19	60.67	-9.33	51.34	68.20	-16.86	PK
Horizontal	10380.19	49.94	-9.33	40.61	54.00	-13.39	AV
Horizontal	15570.02	60.56	-7.83	52.73	74.00	-21.27	PK
Horizontal	15570.02	49.05	-7.83	41.22	54.00	-12.78	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.11	74.08	-20.12	53.96	68.20	-14.24	PK
Vertical	4739.11	59.63	-20.12	39.51	54.00	-14.49	AV
Vertical	10460.06	60.11	-9.21	50.90	68.20	-17.30	PK
Vertical	10460.06	49.72	-9.21	40.51	54.00	-13.49	AV
Vertical	15690.05	60.31	-7.79	52.52	74.00	-21.48	PK
Vertical	15690.05	49.49	-7.79	41.70	54.00	-12.30	AV
Horizontal	4739.04	73.79	-20.12	53.67	68.20	-14.53	PK
Horizontal	4739.04	59.17	-20.12	39.05	54.00	-14.95	AV
Horizontal	10460.12	62.78	-9.21	53.57	68.20	-14.63	PK
Horizontal	10460.12	49.51	-9.21	40.30	54.00	-13.70	AV
Horizontal	15690.17	60.70	-7.79	52.91	74.00	-21.09	PK
Horizontal	15690.17	49.77	-7.79	41.98	54.00	-12.02	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:	TX(5.1G) - 802.11ac-HT80
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5210 MHz)-Above 1G							
Vertical	4434.11	70.66	-20.73	49.92	68.20	-18.28	PK
Vertical	4434.11	59.21	-20.73	38.48	54.00	-15.52	AV
Vertical	10420.06	64.72	-9.27	55.45	68.20	-12.75	PK
Vertical	10420.06	49.36	-9.27	40.09	54.00	-13.91	AV
Vertical	15630.16	61.24	-7.81	53.43	74.00	-20.57	PK
Vertical	15630.16	49.75	-7.81	41.94	54.00	-12.06	AV
Horizontal	4434.01	72.00	-20.73	51.26	68.20	-16.94	PK
Horizontal	4434.01	49.68	-20.73	28.95	54.00	-25.05	AV
Horizontal	10420.12	43.84	9.27	53.11	68.20	-15.09	PK
Horizontal	10420.12	29.96	9.27	39.23	54.00	-14.77	AV
Horizontal	15630.08	64.52	-7.81	56.71	74.00	-17.29	PK
Horizontal	15630.08	49.67	-7.81	41.86	54.00	-12.14	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:	TX(5.1G) - 802.11ax-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.12	73.75	-20.73	53.02	68.20	-15.18	PK
Vertical	4434.12	59.23	-20.73	38.50	54.00	-15.50	AV
Vertical	10360.01	61.07	-9.36	51.71	68.20	-16.49	PK
Vertical	10360.01	49.77	-9.36	40.41	54.00	-13.59	AV
Vertical	15540.02	63.73	-7.84	55.89	74.00	-18.11	PK
Vertical	15540.02	49.75	-7.84	41.91	54.00	-12.09	AV
Horizontal	4434.00	71.02	-20.73	50.29	68.20	-17.91	PK
Horizontal	4434.00	59.35	-20.73	38.62	54.00	-15.38	AV
Horizontal	10360.17	62.60	-9.36	53.24	68.20	-14.96	PK
Horizontal	10360.17	49.80	-9.36	40.44	54.00	-13.56	AV
Horizontal	15540.06	64.55	-7.84	56.71	74.00	-17.29	PK
Horizontal	15540.06	49.68	-7.84	41.84	54.00	-12.16	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.05	72.78	-20.42	52.37	74.00	-21.63	PK
Vertical	4592.05	59.06	-20.42	38.65	54.00	-15.35	AV
Vertical	10400.20	62.08	-9.30	52.78	68.20	-15.42	PK
Vertical	10400.20	49.58	-9.30	40.28	54.00	-13.72	AV
Vertical	15600.13	64.46	-7.82	56.64	74.00	-17.36	PK
Vertical	15600.13	49.61	-7.82	41.79	54.00	-12.21	AV
Horizontal	4592.03	74.48	-20.42	54.07	74.00	-19.93	PK
Horizontal	4592.03	59.18	-20.42	38.76	54.00	-15.24	AV
Horizontal	10400.18	60.04	-9.30	50.74	68.20	-17.46	PK
Horizontal	10400.18	49.17	-9.30	39.87	54.00	-14.13	AV
Horizontal	15600.13	61.53	-7.82	53.71	74.00	-20.29	PK
Horizontal	15600.13	49.92	-7.82	42.10	54.00	-11.90	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.03	74.29	-20.12	54.16	74.00	-19.84	PK
Vertical	4739.03	59.50	-20.12	39.38	54.00	-14.62	AV
Vertical	10480.08	63.88	-9.18	54.70	68.20	-13.50	PK
Vertical	10480.08	49.17	-9.18	39.99	54.00	-14.01	AV
Vertical	15720.01	61.51	-7.78	53.73	74.00	-20.27	PK
Vertical	15720.01	49.62	-7.78	41.84	54.00	-12.16	AV
Horizontal	4739.16	70.90	-20.12	50.78	74.00	-23.22	PK
Horizontal	4739.16	59.21	-20.12	39.08	54.00	-14.92	AV
Horizontal	10480.02	60.22	-9.18	51.04	68.20	-17.16	PK
Horizontal	10480.02	49.13	-9.18	39.95	54.00	-14.05	AV
Horizontal	15720.16	64.42	-7.78	56.64	74.00	-17.36	PK
Horizontal	15720.16	49.74	-7.78	41.96	54.00	-12.04	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:	TX(5.1G) - 802.11ax-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.14	70.35	-20.73	49.61	68.20	-18.59	PK
Vertical	4434.14	59.86	-20.73	39.12	54.00	-14.88	AV
Vertical	10380.06	63.17	-9.33	53.84	68.20	-14.36	PK
Vertical	10380.06	49.34	-9.33	40.01	54.00	-13.99	AV
Vertical	15570.12	61.23	-7.83	53.40	74.00	-20.60	PK
Vertical	15570.12	49.15	-7.83	41.32	54.00	-12.68	AV
Horizontal	4434.01	74.72	-20.73	53.99	74.00	-20.01	PK
Horizontal	4434.01	59.50	-20.73	38.77	54.00	-15.23	AV
Horizontal	10380.15	63.03	-9.33	53.70	68.20	-14.50	PK
Horizontal	10380.15	49.56	-9.33	40.23	54.00	-13.77	AV
Horizontal	15570.15	64.45	-7.83	56.62	74.00	-17.38	PK
Horizontal	15570.15	50.00	-7.83	42.17	54.00	-11.83	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.08	71.20	-20.12	51.08	68.20	-17.12	PK
Vertical	4739.08	59.23	-20.12	39.11	54.00	-14.89	AV
Vertical	10460.20	63.33	-9.21	54.12	68.20	-14.08	PK
Vertical	10460.20	49.19	-9.21	39.98	54.00	-14.02	AV
Vertical	15690.03	63.53	-7.79	55.74	74.00	-18.26	PK
Vertical	15690.03	49.94	-7.79	42.15	54.00	-11.85	AV
Horizontal	4739.04	73.37	-20.12	53.25	68.20	-14.95	PK
Horizontal	4739.04	59.88	-20.12	39.76	54.00	-14.24	AV
Horizontal	10460.18	61.60	-9.21	52.39	68.20	-15.81	PK
Horizontal	10460.18	49.22	-9.21	40.01	54.00	-13.99	AV
Horizontal	15690.07	63.56	-7.79	55.77	74.00	-18.23	PK
Horizontal	15690.07	49.01	-7.79	41.22	54.00	-12.78	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:	TX(5.1G) - 802.11ax-HT80
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5210 MHz)-Above 1G							
Vertical	4434.02	74.96	-20.73	54.23	68.20	-13.97	PK
Vertical	4434.02	59.28	-20.73	38.54	54.00	-15.46	AV
Vertical	10420.09	62.15	-9.27	52.88	68.20	-15.32	PK
Vertical	10420.09	49.37	-9.27	40.10	54.00	-13.90	AV
Vertical	15630.05	60.74	-7.81	52.93	74.00	-21.07	PK
Vertical	15630.05	49.44	-7.81	41.63	54.00	-12.37	AV
Horizontal	4434.14	73.10	-20.73	52.37	68.20	-15.83	PK
Horizontal	4434.14	49.94	-20.73	29.21	54.00	-24.79	AV
Horizontal	10420.04	42.91	9.27	52.18	68.20	-16.02	PK
Horizontal	10420.04	29.58	9.27	38.85	54.00	-15.15	AV
Horizontal	15630.03	61.97	-7.81	54.16	74.00	-19.84	PK
Horizontal	15630.03	49.87	-7.81	42.06	54.00	-11.94	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:	TX (5.8G) -- 802.11a
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.04	74.00	-20.24	53.76	74.00	-20.24	PK
Vertical	4679.04	59.82	-20.24	39.58	54.00	-14.42	AV
Vertical	11490.19	63.17	-8.79	54.38	68.20	-13.82	PK
Vertical	11490.19	49.86	-8.79	41.07	54.00	-12.93	AV
Vertical	17235.15	55.46	-3.18	52.28	68.20	-15.92	PK
Vertical	17235.15	44.68	-3.18	41.50	54.00	-12.50	AV
Horizontal	4679.00	71.41	-20.73	50.68	74.00	-23.32	PK
Horizontal	4679.00	59.10	-20.73	38.37	54.00	-15.63	AV
Horizontal	11490.19	64.87	-8.79	56.08	68.20	-12.12	PK
Horizontal	11490.19	49.68	-8.79	40.89	54.00	-13.11	AV
Horizontal	17235.05	59.78	-3.18	56.60	68.20	-11.60	PK
Horizontal	17235.05	44.07	-3.18	40.89	54.00	-13.11	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.17	71.73	-20.42	51.31	74.00	-22.69	PK
Vertical	4592.17	59.91	-20.42	39.49	54.00	-14.51	AV
Vertical	11570.03	62.42	-8.86	53.56	68.20	-14.64	PK
Vertical	11570.03	49.82	-8.86	40.96	54.00	-13.04	AV
Vertical	17355.04	56.12	-2.52	53.60	68.20	-14.60	PK
Vertical	17355.04	44.58	-2.52	42.06	54.00	-11.94	AV
Horizontal	4592.14	72.26	-20.42	51.85	74.00	-22.15	PK
Horizontal	4592.14	59.56	-20.42	39.15	54.00	-14.85	AV
Horizontal	11570.08	60.46	-8.86	51.60	68.20	-16.60	PK
Horizontal	11570.08	49.46	-8.86	40.60	54.00	-13.40	AV
Horizontal	17355.18	56.26	-2.52	53.74	68.20	-14.46	PK
Horizontal	17355.18	44.86	-2.52	42.34	54.00	-11.66	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.14	73.29	-18.93	54.36	68.20	-13.84	PK
Vertical	6039.14	59.90	-18.93	40.97	54.00	-13.03	AV
Vertical	11650.09	61.08	-8.92	52.16	74.00	-21.84	PK
Vertical	11650.09	49.77	-8.92	40.85	54.00	-13.15	AV
Vertical	17475.19	56.93	-1.86	55.07	68.20	-13.13	PK
Vertical	17475.19	44.57	-1.86	42.71	54.00	-11.29	AV
Horizontal	6039.00	72.08	-18.93	53.15	68.20	-15.05	PK
Horizontal	6039.00	59.97	-18.93	41.03	54.00	-12.97	AV
Horizontal	11650.06	61.93	-8.92	53.01	74.00	-20.99	PK
Horizontal	11650.06	49.14	-8.92	40.22	54.00	-13.78	AV
Horizontal	17475.08	58.24	-1.86	56.38	68.20	-11.82	PK
Horizontal	17475.08	44.45	-1.86	42.59	54.00	-11.41	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: TX (5.8G) --802.11n-HT20

Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.16	73.35	-20.24	53.10	74.00	-20.90	PK
Vertical	4679.16	59.93	-20.24	39.69	54.00	-14.31	AV
Vertical	11490.06	61.00	-8.79	52.21	68.20	-15.99	PK
Vertical	11490.06	49.55	-8.79	40.76	54.00	-13.24	AV
Vertical	17235.19	58.07	-3.18	54.89	68.20	-13.31	PK
Vertical	17235.19	44.27	-3.18	41.09	54.00	-12.91	AV
Horizontal	4679.02	70.98	-20.24	50.73	74.00	-23.27	PK
Horizontal	4679.02	59.71	-20.24	39.47	54.00	-14.53	AV
Horizontal	11490.06	64.46	-8.79	55.67	68.20	-12.53	PK
Horizontal	11490.06	49.56	-8.79	40.77	54.00	-13.23	AV
Horizontal	17235.18	56.07	-3.18	52.89	68.20	-15.31	PK
Horizontal	17235.18	44.11	-3.18	40.93	54.00	-13.07	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.17	72.14	-20.42	51.73	74.00	-22.27	PK
Vertical	4592.17	59.85	-20.42	39.43	54.00	-14.57	AV
Vertical	11570.13	63.24	-8.86	54.38	68.20	-13.82	PK
Vertical	11570.13	49.84	-8.86	40.98	54.00	-13.02	AV
Vertical	17355.02	56.85	-2.52	54.33	68.20	-13.87	PK
Vertical	17355.02	44.74	-2.52	42.22	54.00	-11.78	AV
Horizontal	4592.05	74.92	-20.42	54.50	74.00	-19.50	PK
Horizontal	4592.05	59.52	-20.42	39.10	54.00	-14.90	AV
Horizontal	11570.04	60.00	-8.86	51.14	68.20	-17.06	PK
Horizontal	11570.04	49.03	-8.86	40.17	54.00	-13.83	AV
Horizontal	17355.08	57.74	-2.52	55.22	68.20	-12.98	PK
Horizontal	17355.08	44.65	-2.52	42.13	54.00	-11.87	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.15	73.01	-18.93	54.08	68.20	-14.12	PK
Vertical	6039.15	59.57	-18.93	40.64	54.00	-13.36	AV
Vertical	11650.01	64.86	-8.92	55.94	74.00	-18.06	PK
Vertical	11650.01	49.07	-8.92	40.15	54.00	-13.85	AV
Vertical	17475.17	56.35	-1.86	54.49	68.20	-13.71	PK
Vertical	17475.17	44.74	-1.86	42.88	54.00	-11.12	AV
Horizontal	6039.12	73.37	-18.93	54.44	68.20	-13.76	PK
Horizontal	6039.12	59.21	-18.93	40.28	54.00	-13.72	AV
Horizontal	11650.02	62.91	-8.92	53.99	74.00	-20.01	PK
Horizontal	11650.02	49.82	-8.92	40.90	54.00	-13.10	AV
Horizontal	17475.02	58.65	-1.86	56.79	68.20	-11.41	PK
Horizontal	17475.02	44.61	-1.86	42.75	54.00	-11.25	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:	TX (5.8G) -- 802.11n-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.03	70.80	-20.24	50.56	74.00	-23.44	PK
Vertical	4679.03	59.41	-20.24	39.17	54.00	-14.83	AV
Vertical	11510.02	62.55	-8.81	53.74	74.00	-20.26	PK
Vertical	11510.02	49.86	-8.81	41.05	54.00	-12.95	AV
Vertical	17265.03	57.41	-3.01	54.40	68.20	-13.80	PK
Vertical	17265.03	44.82	-3.01	41.81	54.00	-12.19	AV
Horizontal	4679.04	71.46	-20.24	51.22	74.00	-22.78	PK
Horizontal	4679.04	59.53	-20.24	39.29	54.00	-14.71	AV
Horizontal	11510.02	60.57	-8.81	51.76	74.00	-22.24	PK
Horizontal	11510.02	49.62	-8.81	40.81	54.00	-13.19	AV
Horizontal	17265.16	57.26	-3.01	54.25	68.20	-13.95	PK
Horizontal	17265.16	44.16	-3.01	41.15	54.00	-12.85	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.09	70.24	-18.93	51.30	68.20	-16.90	PK
Vertical	6039.09	59.51	-18.93	40.58	54.00	-13.42	AV
Vertical	11590.12	64.07	-8.87	55.20	74.00	-18.80	PK
Vertical	11590.12	49.36	-8.87	40.49	54.00	-13.51	AV
Vertical	17385.14	57.95	-2.35	55.60	68.20	-12.60	PK
Vertical	17385.14	44.61	-2.35	42.26	54.00	-11.74	AV
Horizontal	6039.04	72.58	-18.93	53.65	68.20	-14.55	PK
Horizontal	6039.04	59.63	-18.93	40.70	54.00	-13.30	AV
Horizontal	11590.03	62.29	-8.87	53.42	74.00	-20.58	PK
Horizontal	11590.03	49.42	-8.87	40.55	54.00	-13.45	AV
Horizontal	17385.18	57.25	-2.35	54.90	68.20	-13.30	PK
Horizontal	17385.18	44.61	-2.35	42.26	54.00	-11.74	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: TX (5.8G) --802.11ac-HT20

Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.12	70.47	-20.24	50.23	74.00	-23.77	PK
Vertical	4679.12	59.07	-20.24	38.83	54.00	-15.17	AV
Vertical	11490.16	64.34	-8.79	55.55	68.20	-12.65	PK
Vertical	11490.16	49.98	-8.79	41.19	54.00	-12.81	AV
Vertical	17235.16	56.97	-3.18	53.79	68.20	-14.41	PK
Vertical	17235.16	44.06	-3.18	40.88	54.00	-13.12	AV
Horizontal	4679.17	71.70	-20.24	51.46	74.00	-22.54	PK
Horizontal	4679.17	59.30	-20.24	39.06	54.00	-14.94	AV
Horizontal	11490.12	61.63	-8.79	52.84	68.20	-15.36	PK
Horizontal	11490.12	49.41	-8.79	40.62	54.00	-13.38	AV
Horizontal	17235.18	56.24	-3.18	53.06	68.20	-15.14	PK
Horizontal	17235.18	44.72	-3.18	41.54	54.00	-12.46	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.02	72.73	-20.42	52.31	74.00	-21.69	PK
Vertical	4592.02	59.98	-20.42	39.56	54.00	-14.44	AV
Vertical	11570.02	61.42	-8.86	52.56	68.20	-15.64	PK
Vertical	11570.02	49.27	-8.86	40.41	54.00	-13.59	AV
Vertical	17355.14	59.51	-2.52	56.99	68.20	-11.21	PK
Vertical	17355.14	44.24	-2.52	41.72	54.00	-12.28	AV
Horizontal	4592.02	70.47	-20.42	50.06	74.00	-23.94	PK
Horizontal	4592.02	59.62	-20.42	39.21	54.00	-14.79	AV
Horizontal	11570.13	61.66	-8.86	52.80	68.20	-15.40	PK
Horizontal	11570.13	49.63	-8.86	40.77	54.00	-13.23	AV
Horizontal	17355.03	57.53	-2.52	55.01	68.20	-13.19	PK
Horizontal	17355.03	44.32	-2.52	41.80	54.00	-12.20	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.08	71.25	-18.93	52.32	68.20	-15.88	PK
Vertical	6039.08	59.71	-18.93	40.77	54.00	-13.23	AV
Vertical	11650.09	63.26	-8.92	54.34	74.00	-19.66	PK
Vertical	11650.09	49.69	-8.92	40.77	54.00	-13.23	AV
Vertical	17475.09	55.05	-1.86	53.19	68.20	-15.01	PK
Vertical	17475.09	44.19	-1.86	42.33	54.00	-11.67	AV
Horizontal	6039.00	72.79	-18.93	53.85	68.20	-14.35	PK
Horizontal	6039.00	59.16	-18.93	40.23	54.00	-13.77	AV
Horizontal	11650.18	62.49	-8.92	53.57	74.00	-20.43	PK
Horizontal	11650.18	49.30	-8.92	40.38	54.00	-13.62	AV
Horizontal	17475.17	59.79	-1.86	57.93	68.20	-10.27	PK
Horizontal	17475.17	44.30	-1.86	42.44	54.00	-11.56	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 :	TX (5.8G) -- 802.11ac-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.02	70.95	-20.24	50.71	74.00	-23.29	PK
Vertical	4679.02	59.99	-20.24	39.75	54.00	-14.25	AV
Vertical	11510.17	61.68	-8.81	52.87	74.00	-21.13	PK
Vertical	11510.17	49.30	-8.81	40.49	54.00	-13.51	AV
Vertical	17265.14	56.34	-3.01	53.33	68.20	-14.87	PK
Vertical	17265.14	44.43	-3.01	41.42	54.00	-12.58	AV
Horizontal	4679.10	73.87	-20.24	53.63	74.00	-20.37	PK
Horizontal	4679.10	59.40	-20.24	39.16	54.00	-14.84	AV
Horizontal	11510.13	62.41	-8.81	53.60	74.00	-20.40	PK
Horizontal	11510.13	49.63	-8.81	40.82	54.00	-13.18	AV
Horizontal	17265.18	55.92	-3.01	52.91	68.20	-15.29	PK
Horizontal	17265.18	44.58	-3.01	41.57	54.00	-12.43	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.18	72.00	-18.93	53.07	68.20	-15.13	PK
Vertical	6039.18	59.56	-18.93	40.63	54.00	-13.37	AV
Vertical	11590.08	63.70	-8.87	54.83	74.00	-19.17	PK
Vertical	11590.08	49.46	-8.87	40.59	54.00	-13.41	AV
Vertical	17385.02	55.25	-2.35	52.90	68.20	-15.30	PK
Vertical	17385.02	44.62	-2.35	42.27	54.00	-11.73	AV
Horizontal	6039.06	70.08	-18.93	51.15	68.20	-17.05	PK
Horizontal	6039.06	59.56	-18.93	40.63	54.00	-13.37	AV
Horizontal	11590.02	61.92	-8.87	53.05	74.00	-20.95	PK
Horizontal	11590.02	49.94	-8.87	41.07	54.00	-12.93	AV
Horizontal	17385.05	55.87	-2.35	53.52	68.20	-14.68	PK
Horizontal	17385.05	44.45	-2.35	42.10	54.00	-11.90	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 :	TX (5.8G) -- 802.11ac-HT80
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5775 MHz)-Above 1G							
Vertical	4679.20	74.93	-20.24	54.68	74.00	-19.32	PK
Vertical	4679.20	59.81	-20.24	39.57	54.00	-14.43	AV
Vertical	11550.13	63.17	-8.84	54.33	74.00	-19.67	PK
Vertical	11550.13	49.90	-8.84	41.06	54.00	-12.94	AV
Vertical	17325.11	57.94	-2.68	55.26	68.20	-12.94	PK
Vertical	17325.11	44.22	-2.68	41.54	54.00	-12.46	AV
Horizontal	4679.14	72.51	-20.24	52.27	74.00	-21.73	PK
Horizontal	4679.14	59.40	-20.24	39.15	54.00	-14.85	AV
Horizontal	11550.06	64.29	-8.84	55.45	74.00	-18.55	PK
Horizontal	11550.06	49.29	-8.84	40.45	54.00	-13.55	AV
Horizontal	17325.03	58.72	-2.68	56.04	68.20	-12.16	PK
Horizontal	17325.03	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: TX (5.8G) --802.11ax-HT20

Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.15	73.20	-20.24	52.96	74.00	-21.04	PK
Vertical	4679.15	59.59	-20.24	39.34	54.00	-14.66	AV
Vertical	11490.11	62.29	-8.79	53.50	68.20	-14.70	PK
Vertical	11490.11	49.47	-8.79	40.68	54.00	-13.32	AV
Vertical	17235.11	55.37	-3.18	52.19	68.20	-16.01	PK
Vertical	17235.11	44.62	-3.18	41.44	54.00	-12.56	AV
Horizontal	4679.11	73.76	-20.24	53.52	74.00	-20.48	PK
Horizontal	4679.11	59.43	-20.24	39.19	54.00	-14.81	AV
Horizontal	11490.11	64.52	-8.79	55.73	68.20	-12.47	PK
Horizontal	11490.11	49.81	-8.79	41.02	54.00	-12.98	AV
Horizontal	17235.02	55.82	-3.18	52.64	68.20	-15.56	PK
Horizontal	17235.02	44.79	-3.18	41.61	54.00	-12.39	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.13	71.51	-20.42	51.09	74.00	-22.91	PK
Vertical	4592.13	59.17	-20.42	38.76	54.00	-15.24	AV
Vertical	11570.04	63.15	-8.86	54.29	68.20	-13.91	PK
Vertical	11570.04	49.66	-8.86	40.80	54.00	-13.20	AV
Vertical	17355.03	55.37	-2.52	52.85	68.20	-15.35	PK
Vertical	17355.03	44.69	-2.52	42.17	54.00	-11.83	AV
Horizontal	4592.17	73.14	-20.42	52.72	74.00	-21.28	PK
Horizontal	4592.17	59.60	-20.42	39.18	54.00	-14.82	AV
Horizontal	11570.13	61.27	-8.86	52.41	68.20	-15.79	PK
Horizontal	11570.13	49.15	-8.86	40.29	54.00	-13.71	AV
Horizontal	17355.08	58.02	-2.52	55.50	68.20	-12.70	PK
Horizontal	17355.08	44.05	-2.52	41.53	54.00	-12.47	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.10	71.78	-18.93	52.85	68.20	-15.35	PK
Vertical	6039.10	59.21	-18.93	40.28	54.00	-13.72	AV
Vertical	11650.17	64.46	-8.92	55.54	74.00	-18.46	PK
Vertical	11650.17	49.21	-8.92	40.29	54.00	-13.71	AV
Vertical	17475.16	57.85	-1.86	55.99	68.20	-12.21	PK
Vertical	17475.16	44.14	-1.86	42.28	54.00	-11.72	AV
Horizontal	6039.05	73.22	-18.93	54.29	68.20	-13.91	PK
Horizontal	6039.05	59.84	-18.93	40.90	54.00	-13.10	AV
Horizontal	11650.04	60.79	-8.92	51.87	74.00	-22.13	PK
Horizontal	11650.04	49.30	-8.92	40.38	54.00	-13.62	AV
Horizontal	17475.17	57.84	-1.86	55.98	68.20	-12.22	PK
Horizontal	17475.17	44.43	-1.86	42.57	54.00	-11.43	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 :	TX (5.8G) -- 802.11ax-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.06	74.17	-20.24	53.93	74.00	-20.07	PK
Vertical	4679.06	59.19	-20.24	38.94	54.00	-15.06	AV
Vertical	11510.19	60.81	-8.81	52.00	74.00	-22.00	PK
Vertical	11510.19	49.71	-8.81	40.90	54.00	-13.10	AV
Vertical	17265.02	59.16	-3.01	56.15	68.20	-12.05	PK
Vertical	17265.02	44.58	-3.01	41.57	54.00	-12.43	AV
Horizontal	4679.02	72.18	-20.24	51.94	74.00	-22.06	PK
Horizontal	4679.02	59.85	-20.24	39.60	54.00	-14.40	AV
Horizontal	11510.15	63.69	-8.81	54.88	74.00	-19.12	PK
Horizontal	11510.15	49.52	-8.81	40.71	54.00	-13.29	AV
Horizontal	17265.06	58.50	-3.01	55.49	68.20	-12.71	PK
Horizontal	17265.06	44.80	-3.01	41.79	54.00	-12.21	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.13	71.93	-18.93	53.00	68.20	-15.20	PK
Vertical	6039.13	59.14	-18.93	40.21	54.00	-13.79	AV
Vertical	11590.04	63.18	-8.87	54.31	74.00	-19.69	PK
Vertical	11590.04	49.67	-8.87	40.80	54.00	-13.20	AV
Vertical	17385.19	59.78	-2.35	57.43	68.20	-10.77	PK
Vertical	17385.19	44.19	-2.35	41.84	54.00	-12.16	AV
Horizontal	6039.06	70.63	-18.93	51.70	68.20	-16.50	PK
Horizontal	6039.06	59.43	-18.93	40.50	54.00	-13.50	AV
Horizontal	11590.06	64.01	-8.87	55.14	74.00	-18.86	PK
Horizontal	11590.06	49.74	-8.87	40.87	54.00	-13.13	AV
Horizontal	17385.07	59.56	-2.35	57.21	68.20	-10.99	PK
Horizontal	17385.07	44.90	-2.35	42.55	54.00	-11.45	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 :	TX (5.8G) -- 802.11ax-HT80
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5775 MHz)-Above 1G							
Vertical	4679.09	74.91	-20.24	54.67	74.00	-19.33	PK
Vertical	4679.09	59.18	-20.24	38.94	54.00	-15.06	AV
Vertical	11550.17	63.25	-8.84	54.41	74.00	-19.59	PK
Vertical	11550.17	49.99	-8.84	41.15	54.00	-12.85	AV
Vertical	17325.10	58.82	-2.68	56.14	68.20	-12.06	PK
Vertical	17325.10	44.77	-2.68	42.09	54.00	-11.91	AV
Horizontal	4679.09	71.72	-20.24	51.48	74.00	-22.52	PK
Horizontal	4679.09	59.10	-20.24	38.86	54.00	-15.14	AV
Horizontal	11550.15	63.21	-8.84	54.37	74.00	-19.63	PK
Horizontal	11550.15	49.03	-8.84	40.19	54.00	-13.81	AV
Horizontal	17325.01	55.37	-2.68	52.69	68.20	-15.51	PK
Horizontal	17325.01	44.33	-2.68	41.65	54.00	-12.35	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.

- ☒ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge
- All the modes 802.11a/n/ac/ax has been tested and the worst result 802.11ax20 recorded as below:

Test mode: 802.11ax20 Frequency(MHz): 5180

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5150.35	H	63.54	74	45.43	54
5150.21	V	63.22	74	43.25	54

Test mode: 802.11ax20 Frequency(MHz): 5240

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5360.32	H	45.38	74	28.31	54
5360.22	V	43.26	74	28.52	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

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

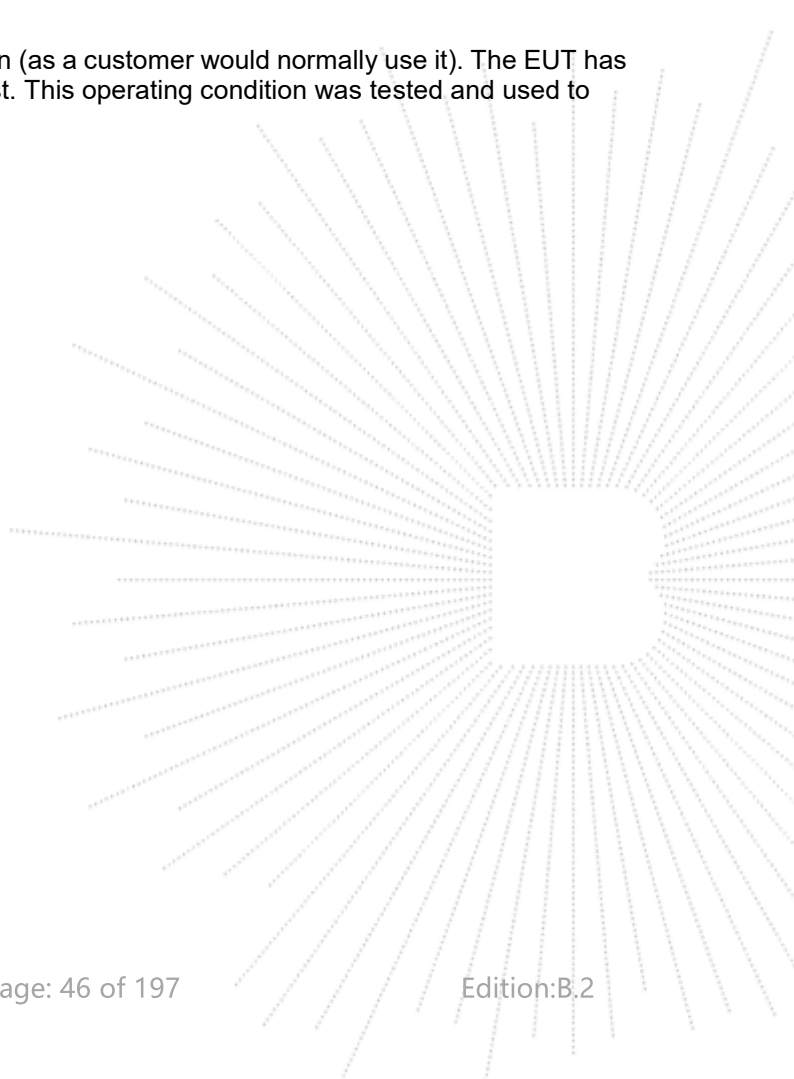
For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 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 $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ KHz})$ 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 $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ 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 $RBW=100 \text{ KHz}$ 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.

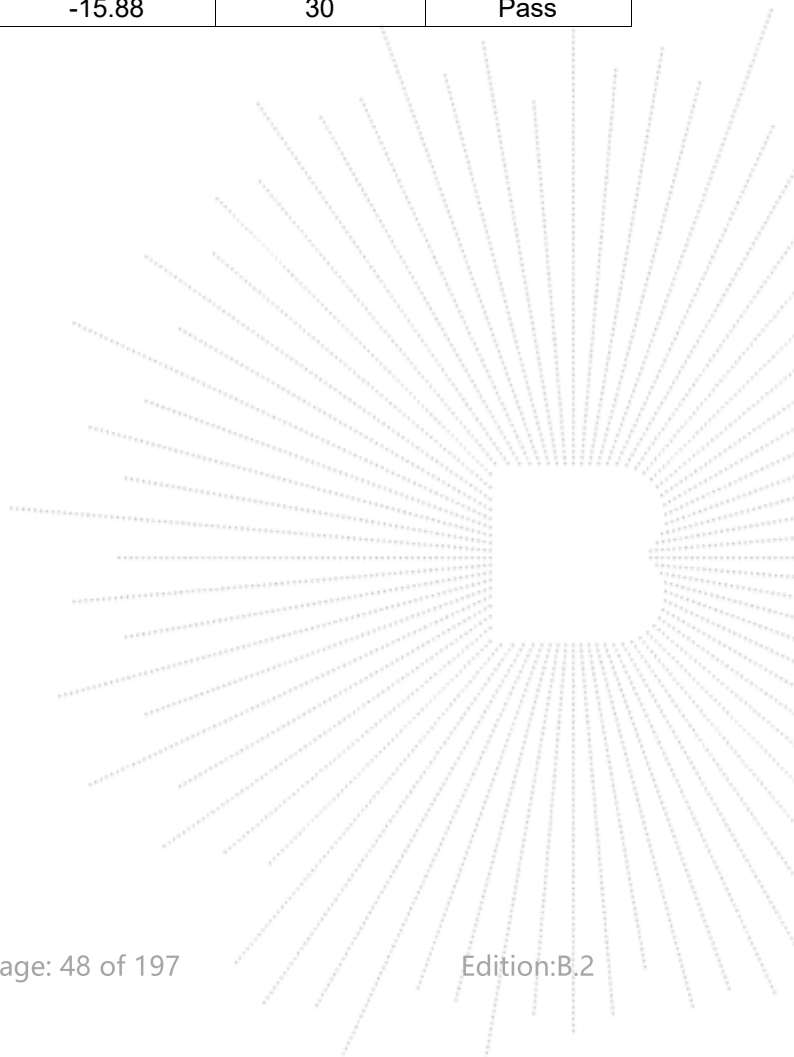


8.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5180-5240MHz); (5745-5825MHz)		

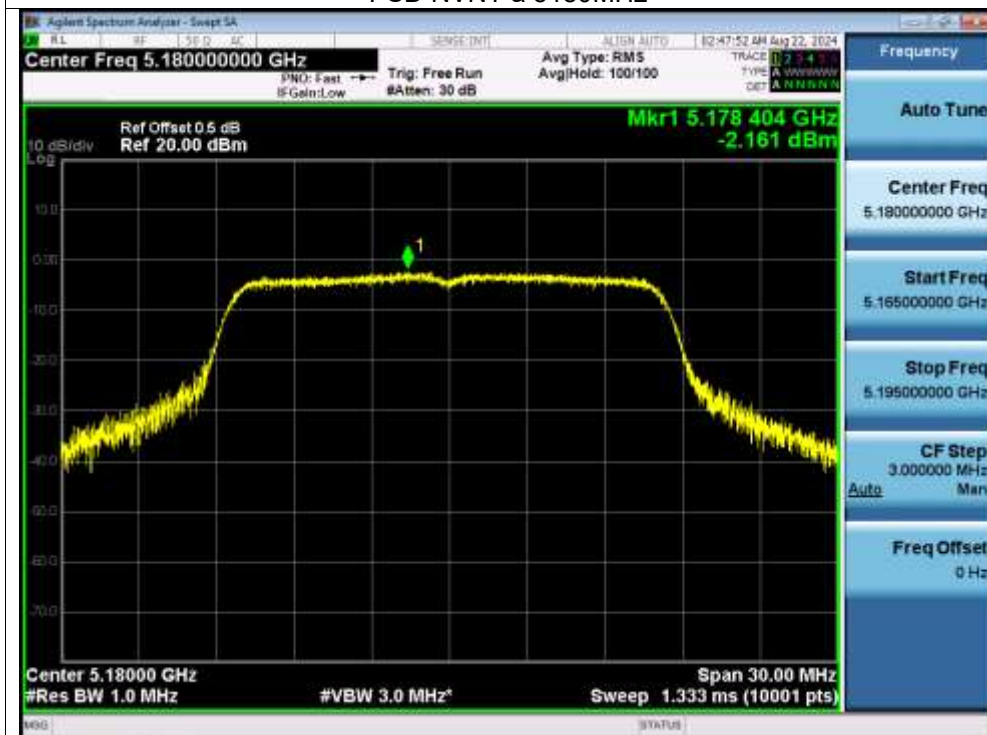
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	-2.16	11	Pass
NVNT	a	5200	-1.13	11	Pass
NVNT	a	5240	-2.52	11	Pass
NVNT	n20	5180	-3.14	11	Pass
NVNT	n20	5200	-2.74	11	Pass
NVNT	n20	5240	-3.45	11	Pass
NVNT	n40	5190	-6.77	11	Pass
NVNT	n40	5230	-7.64	11	Pass
NVNT	ac20	5180	-2.6	11	Pass
NVNT	ac20	5200	-2.48	11	Pass
NVNT	ac20	5240	-3.31	11	Pass
NVNT	ac40	5190	-7.46	11	Pass
NVNT	ac40	5230	-8.38	11	Pass
NVNT	ac80	5210	-12.26	11	Pass
NVNT	ax20	5180	-2.79	11	Pass
NVNT	ax20	5200	-2.74	11	Pass
NVNT	ax20	5240	-3.59	11	Pass
NVNT	ax40	5190	-5.46	11	Pass
NVNT	ax40	5230	-6.23	11	Pass
NVNT	ax80	5210	-13.16	11	Pass

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	-5.67	30	Pass
NVNT	a	5785	-5.9	30	Pass
NVNT	a	5825	-7.68	30	Pass
NVNT	n20	5745	-6.8	30	Pass
NVNT	n20	5785	-7.46	30	Pass
NVNT	n20	5825	-8.9	30	Pass
NVNT	n40	5755	-10.9	30	Pass
NVNT	n40	5795	-11.66	30	Pass
NVNT	ac20	5745	-6.71	30	Pass
NVNT	ac20	5785	-7.31	30	Pass
NVNT	ac20	5825	-8.95	30	Pass
NVNT	ac40	5755	-10.93	30	Pass
NVNT	ac40	5795	-12.07	30	Pass
NVNT	ac80	5775	-16.14	30	Pass
NVNT	ax20	5745	-6.87	30	Pass
NVNT	ax20	5785	-7.66	30	Pass
NVNT	ax20	5825	-9	30	Pass
NVNT	ax40	5755	-11.28	30	Pass
NVNT	ax40	5795	-11.79	30	Pass
NVNT	ax80	5775	-15.88	30	Pass

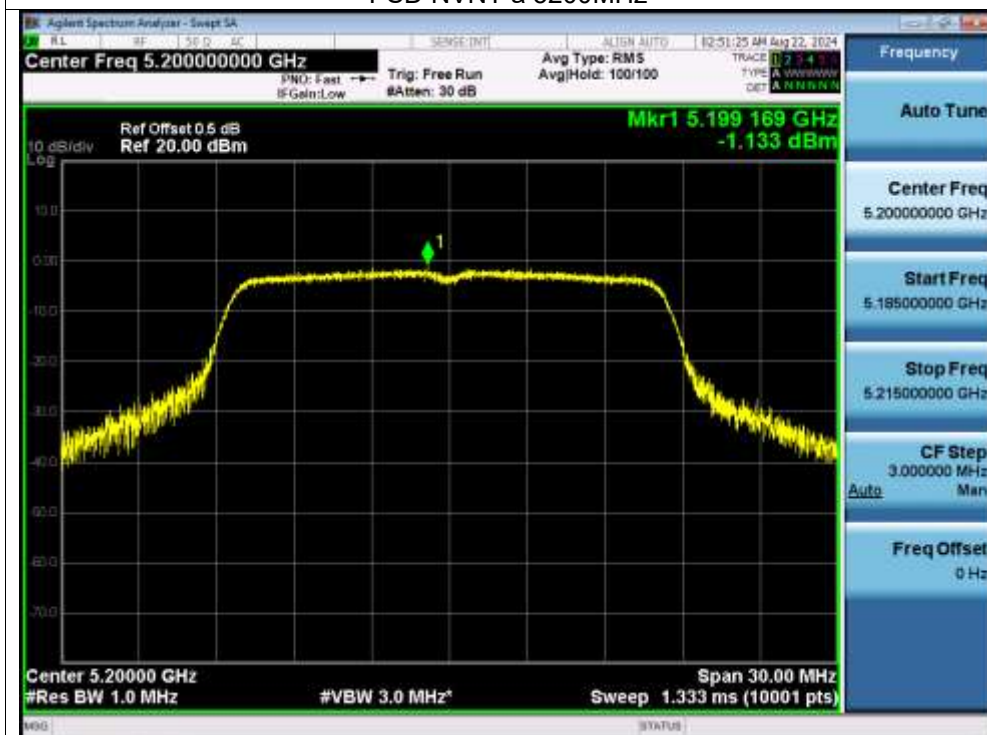


Test Graphs

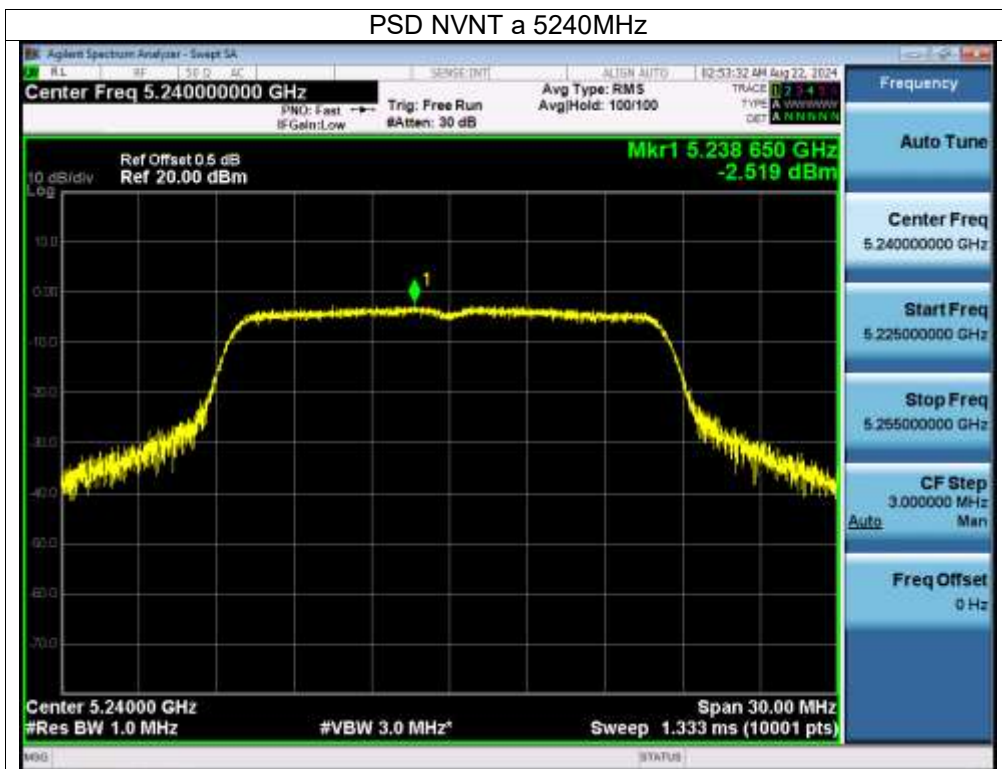
PSD NVNT a 5180MHz



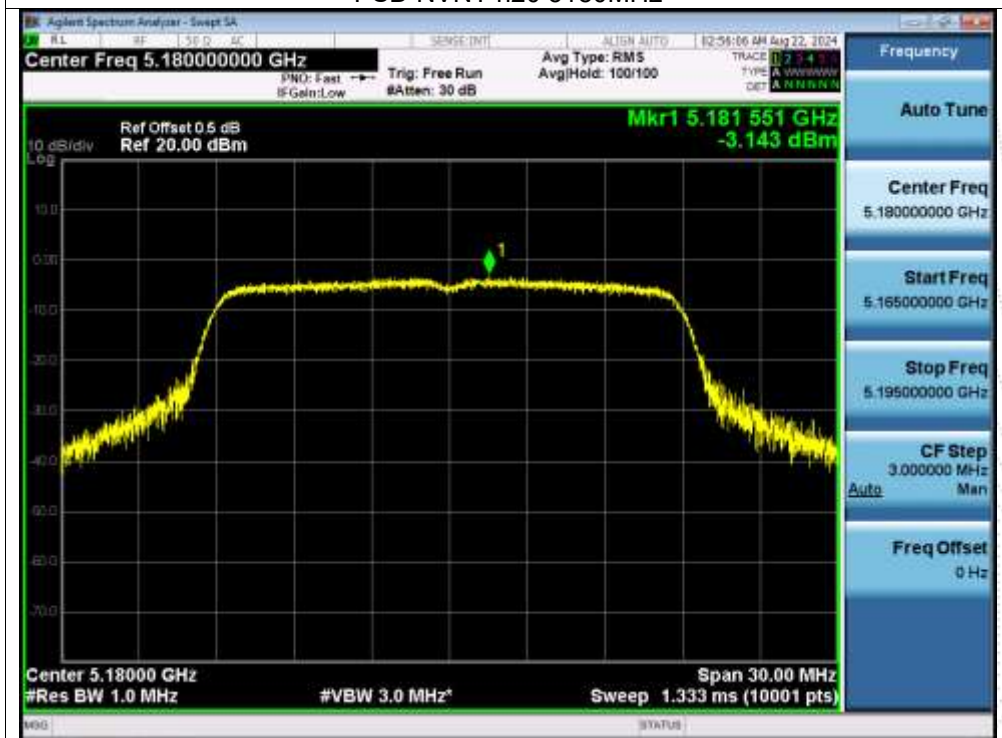
PSD NVNT a 5200MHz



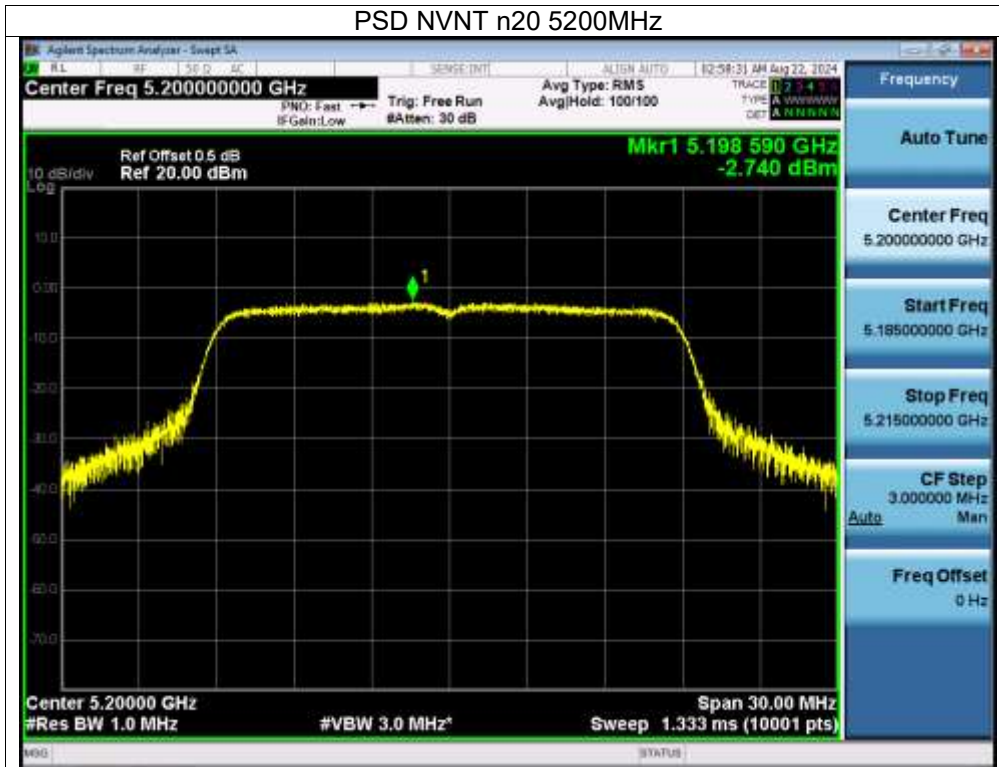
PSD NVNT a 5240MHz



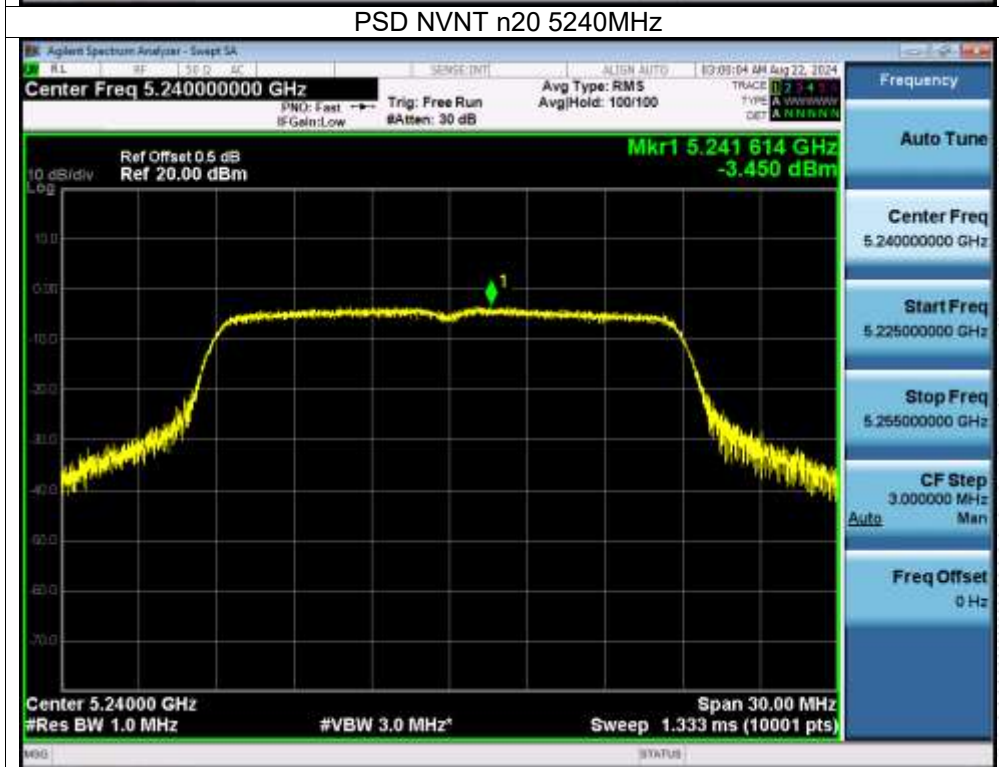
PSD NVNT n20 5180MHz



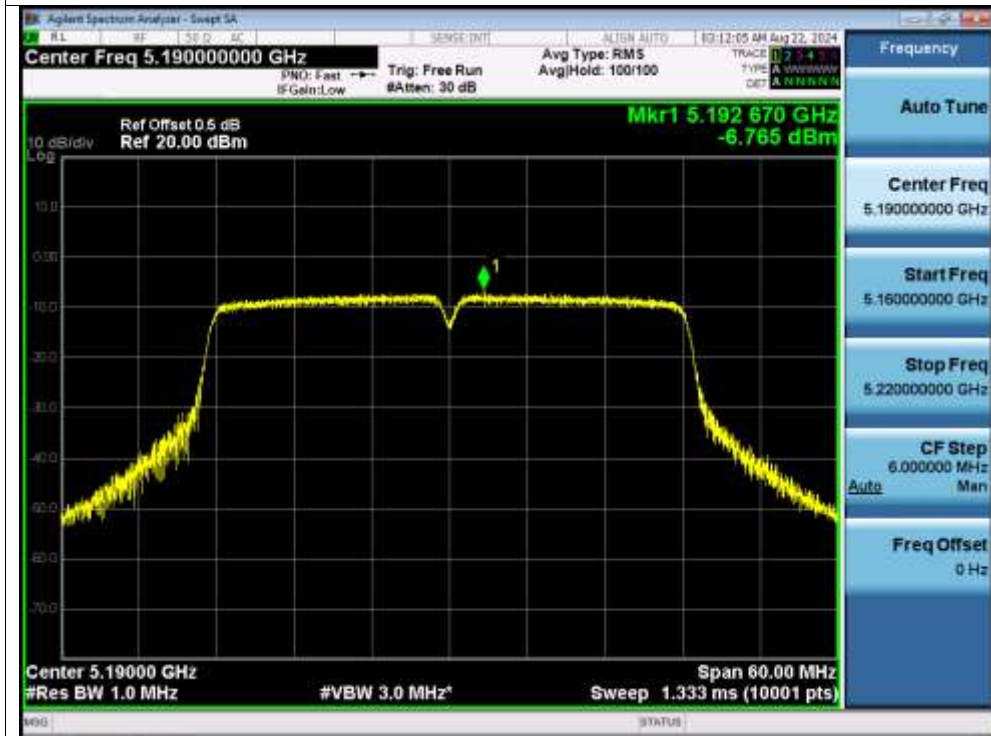
PSD NVNT n20 5200MHz



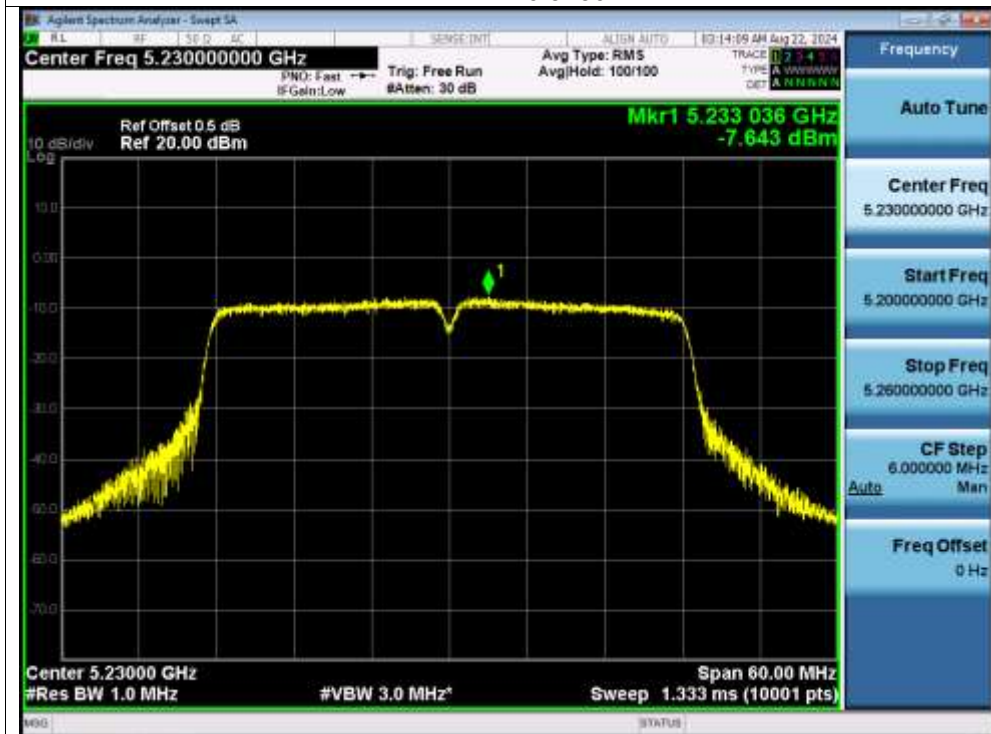
PSD NVNT n20 5240MHz



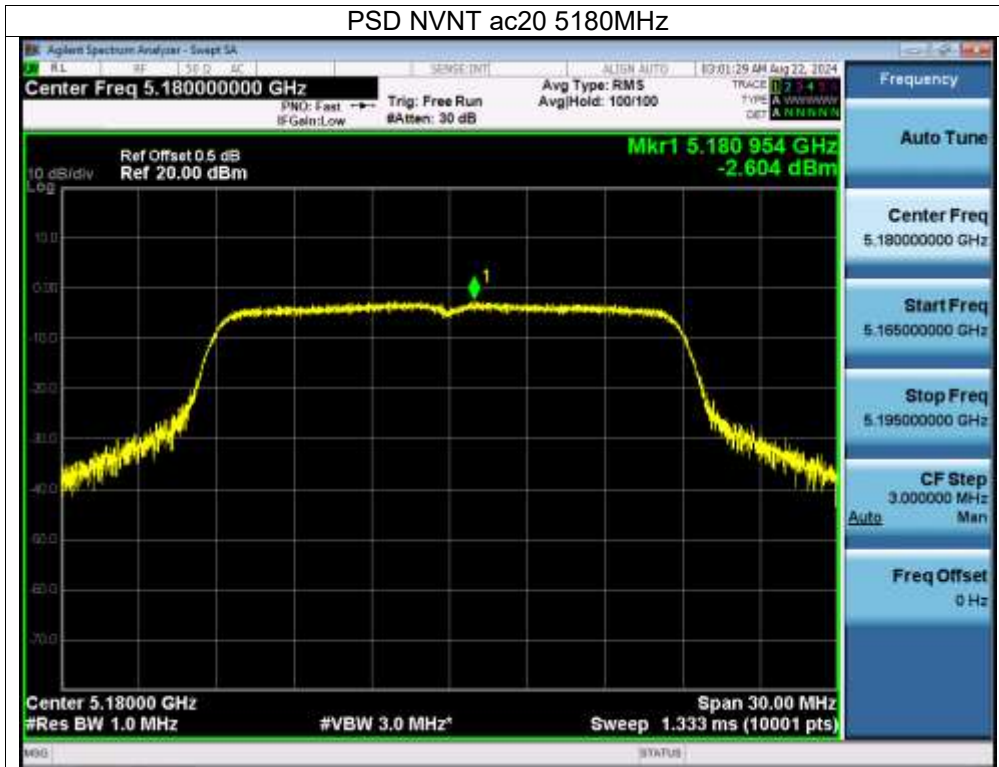
PSD NVNT n40 5190MHz



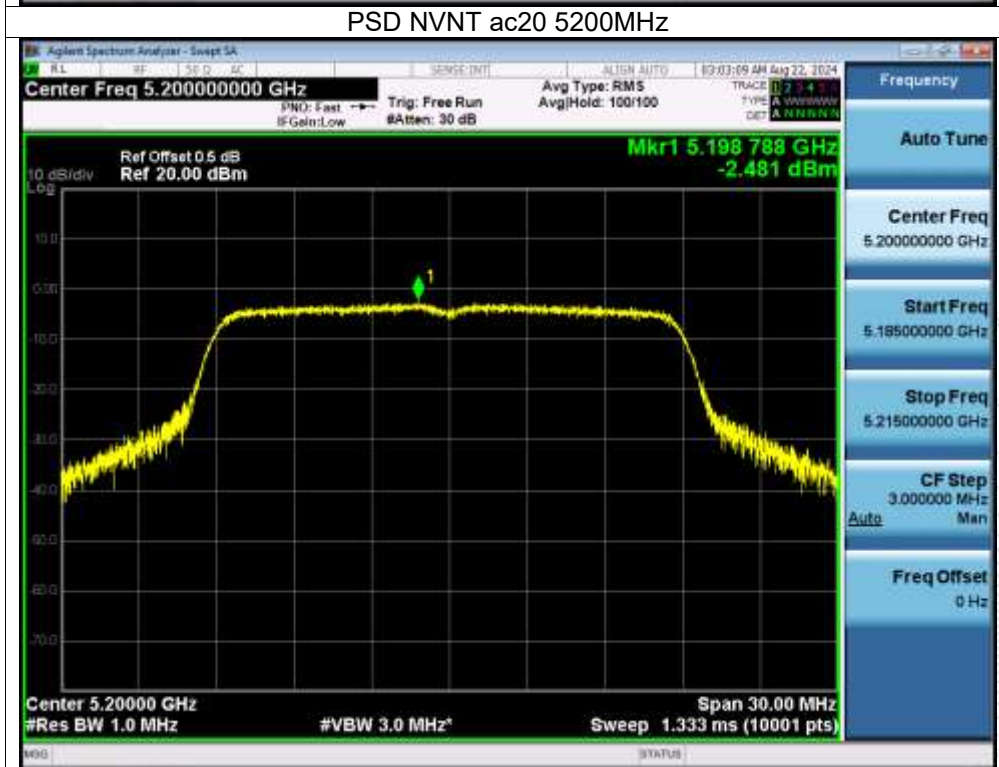
PSD NVNT n40 5230MHz



PSD NVNT ac20 5180MHz



PSD NVNT ac20 5200MHz



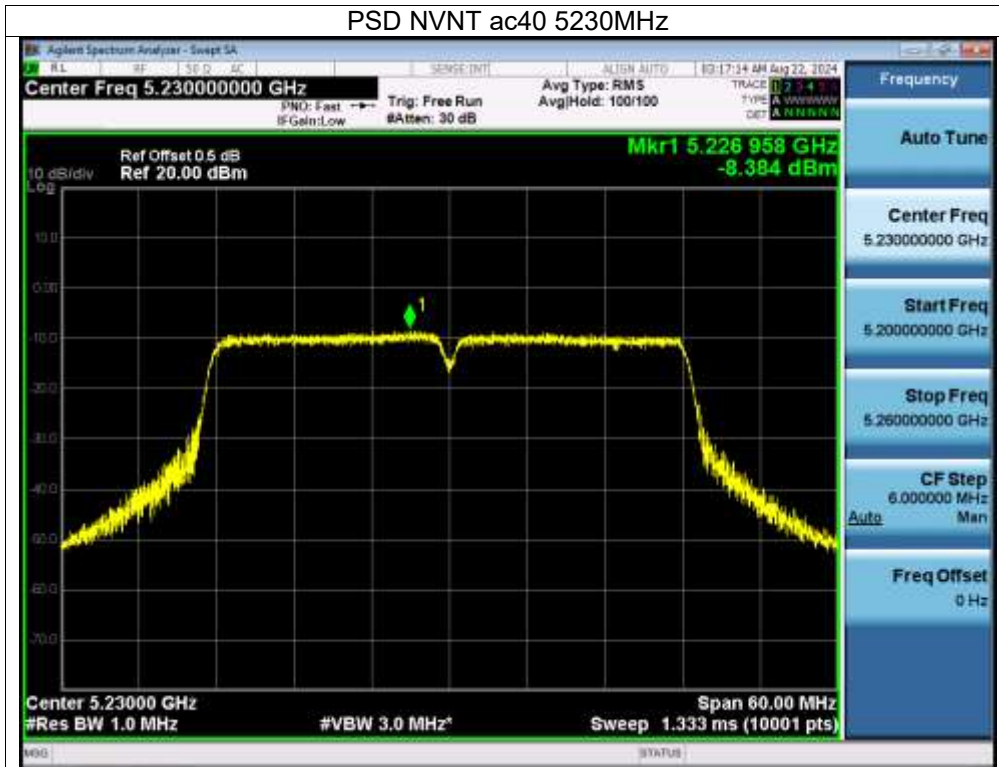
PSD NVNT ac20 5240MHz



PSD NVNT ac40 5190MHz



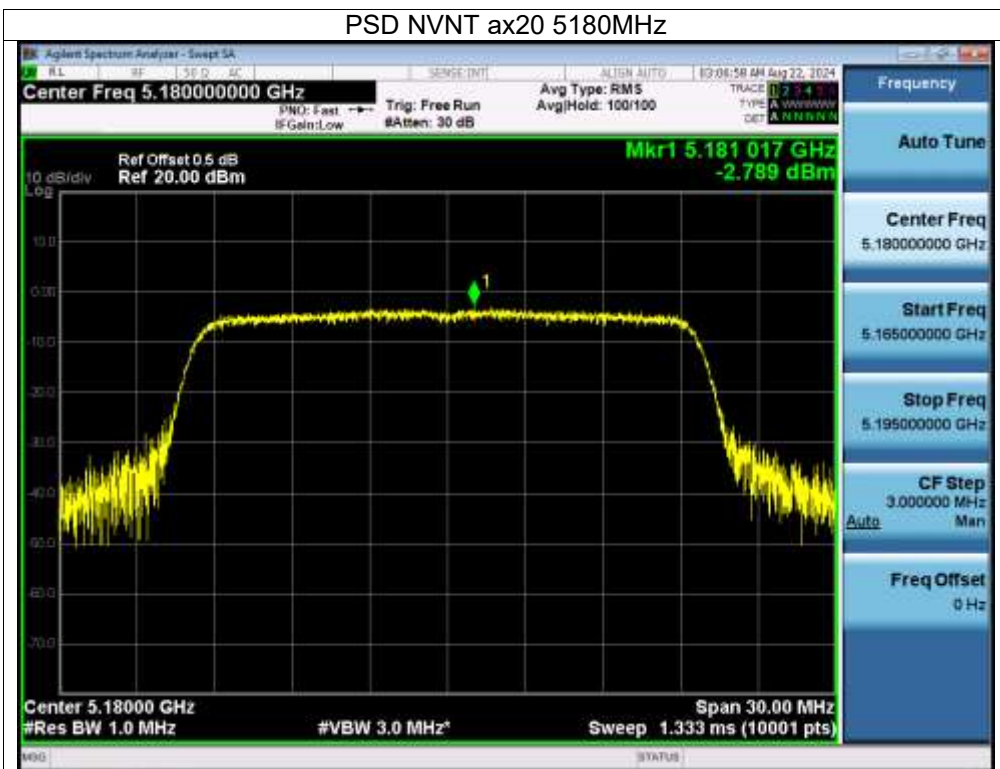
PSD NVNT ac40 5230MHz



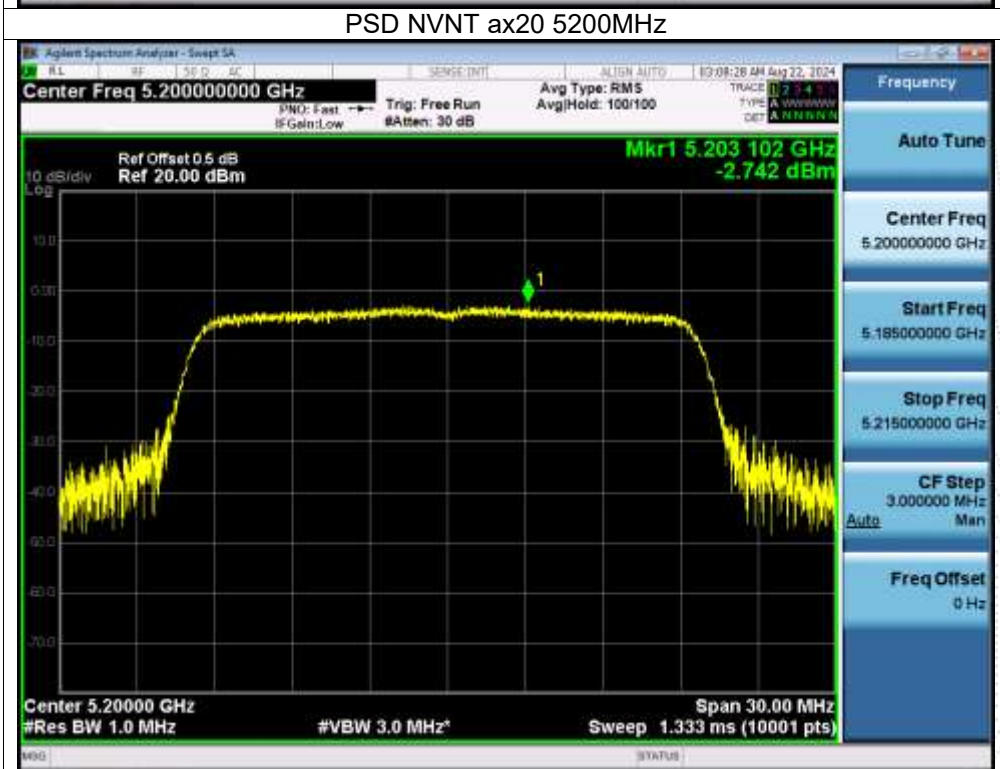
PSD NVNT ac80 5210MHz



PSD NVNT ax20 5180MHz



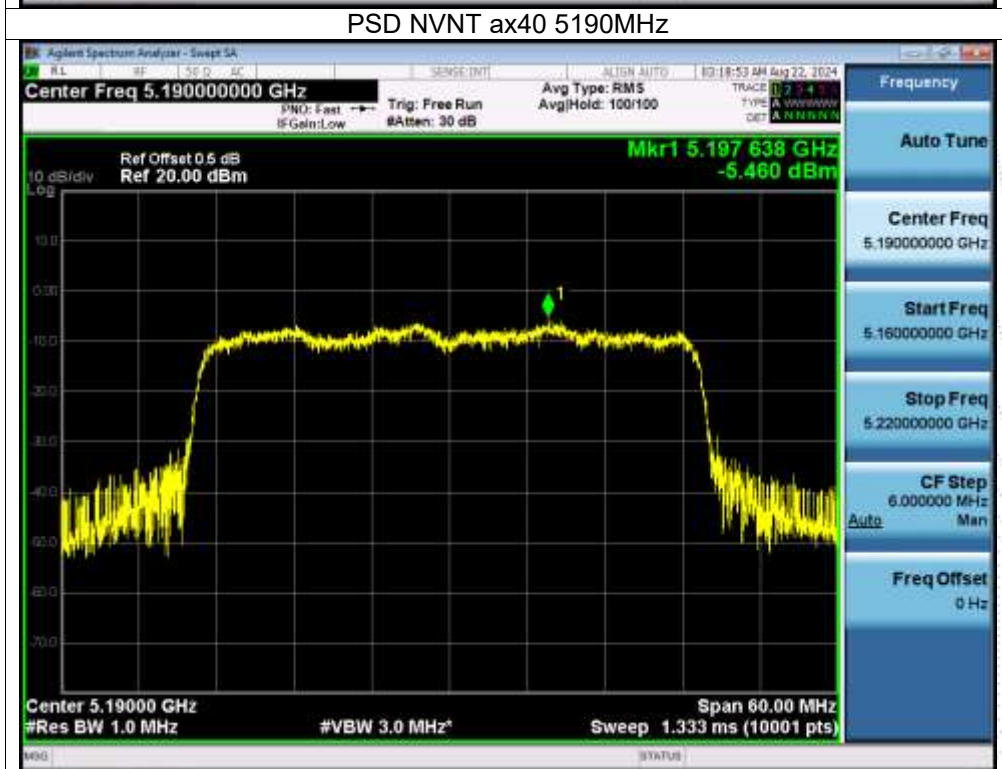
PSD NVNT ax20 5200MHz



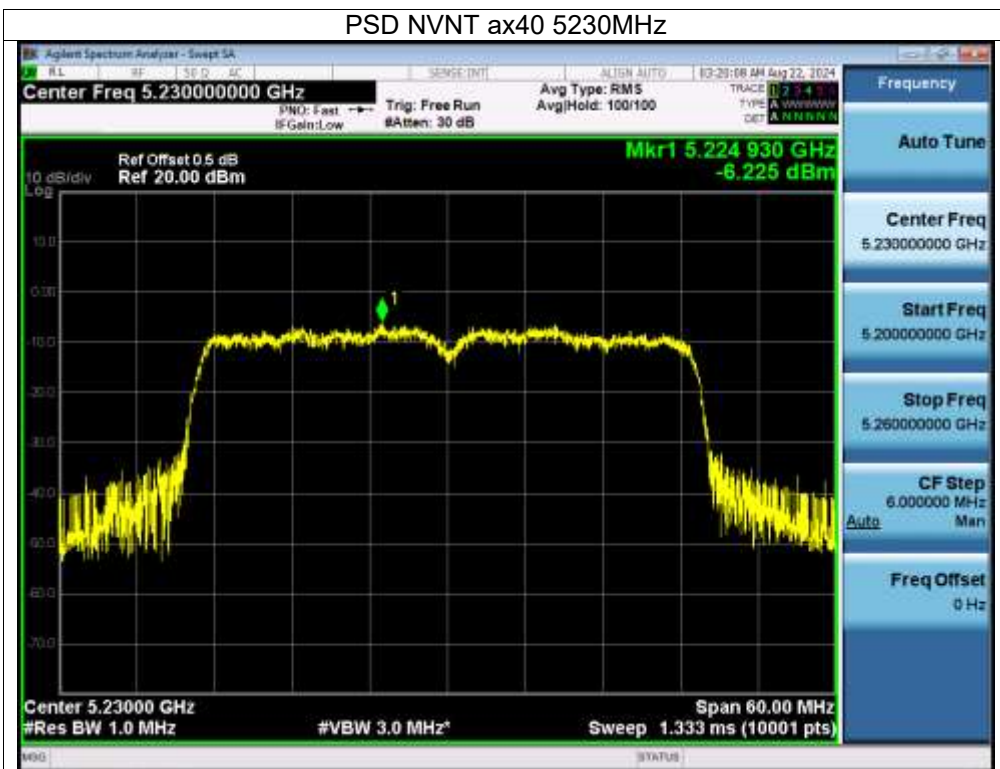
PSD NVNT ax20 5240MHz



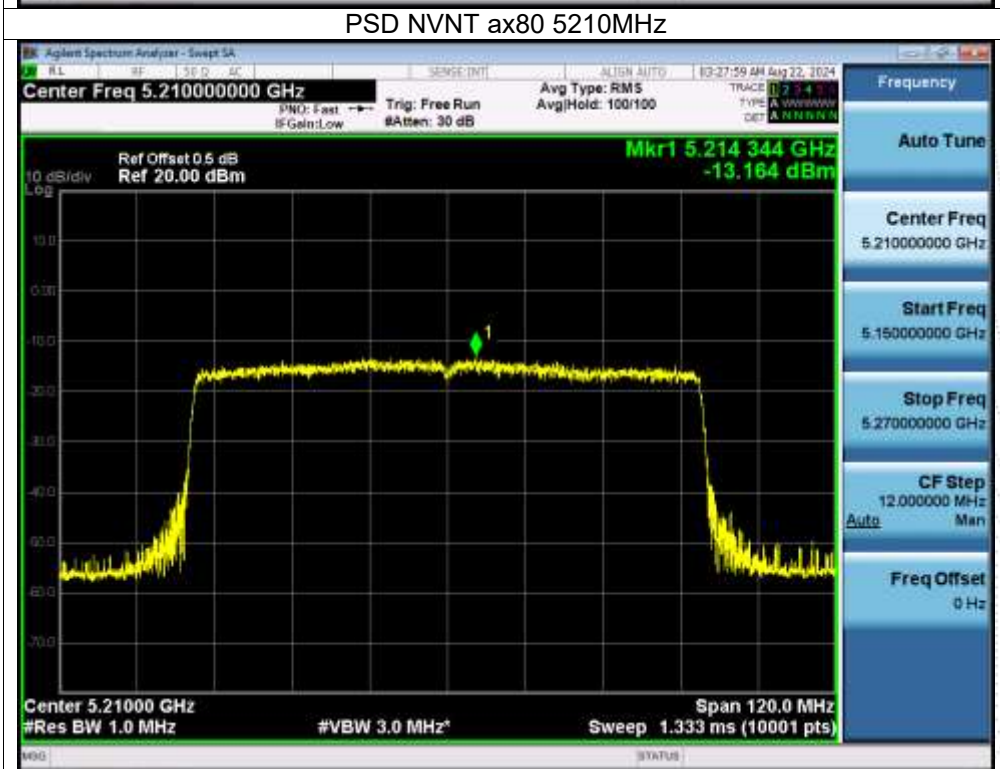
PSD NVNT ax40 5190MHz



PSD NVNT ax40 5230MHz

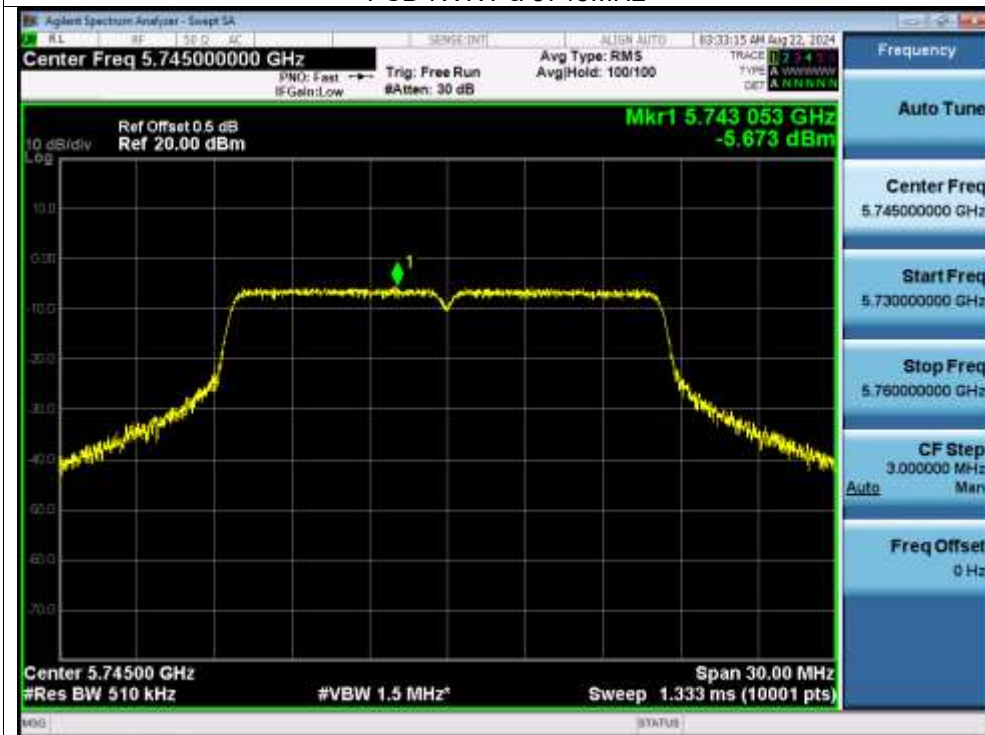


PSD NVNT ax80 5210MHz



Test Graphs

PSD NVNT a 5745MHz



PSD NVNT a 5785MHz



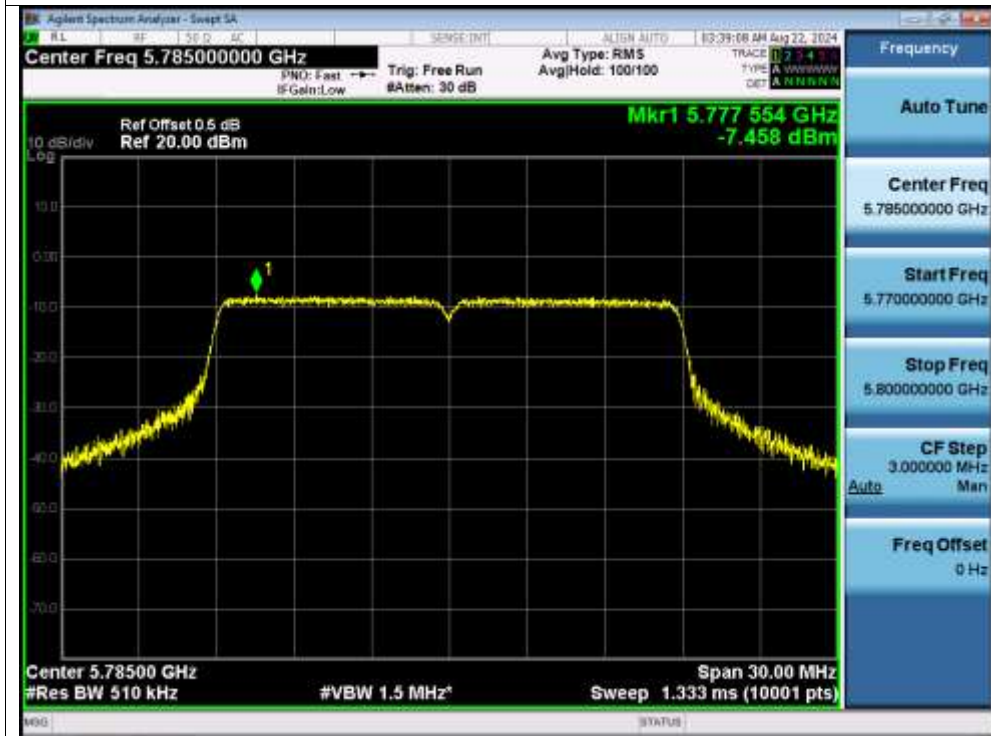
PSD NVNT a 5825MHz



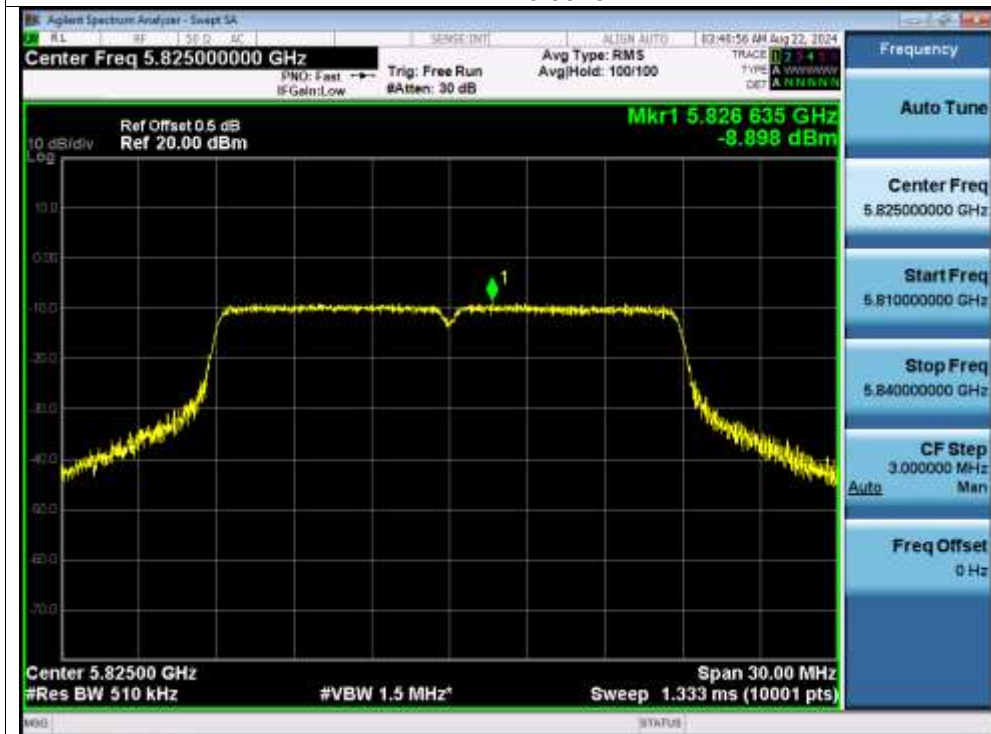
PSD NVNT n20 5745MHz



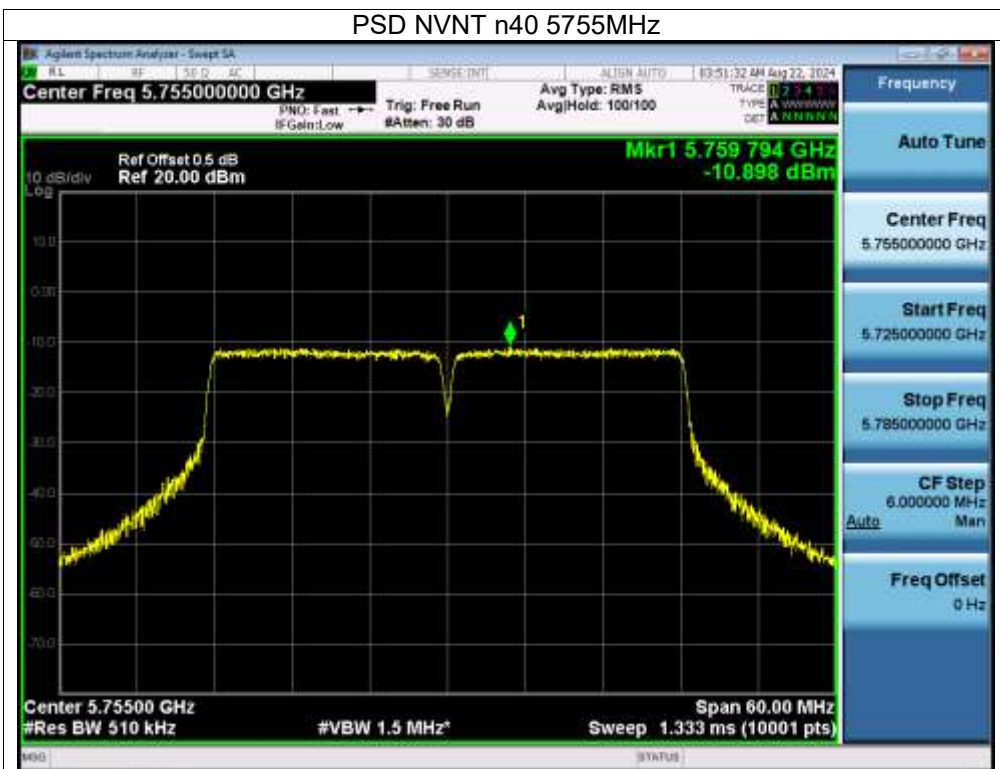
PSD NVNT n20 5785MHz



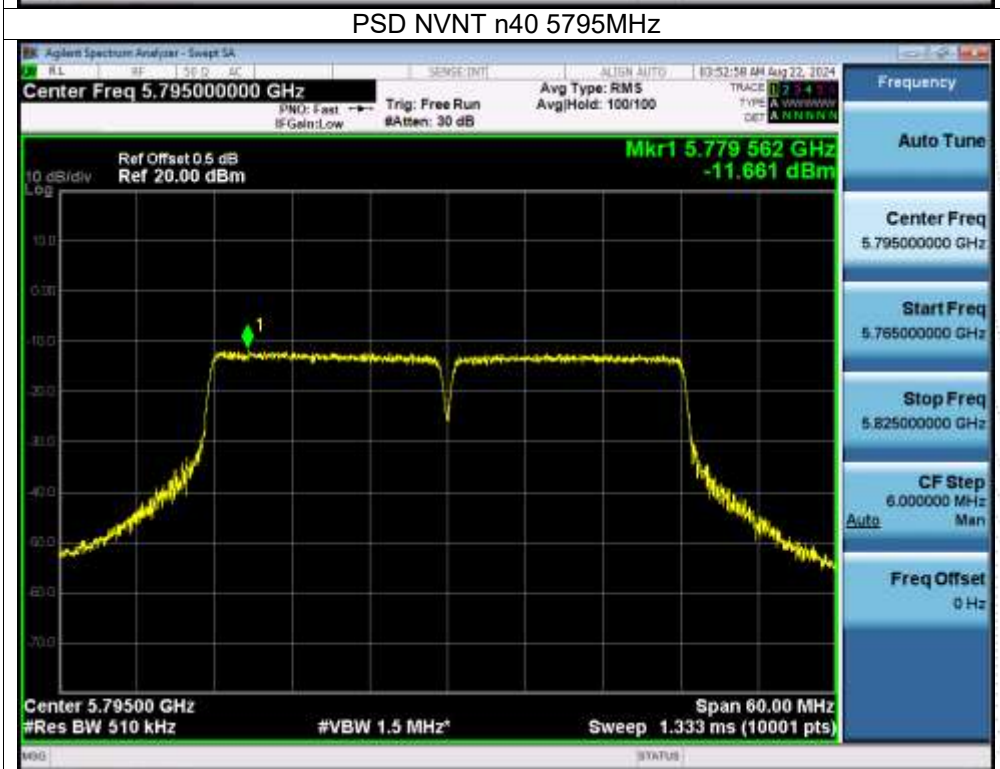
PSD NVNT n20 5825MHz



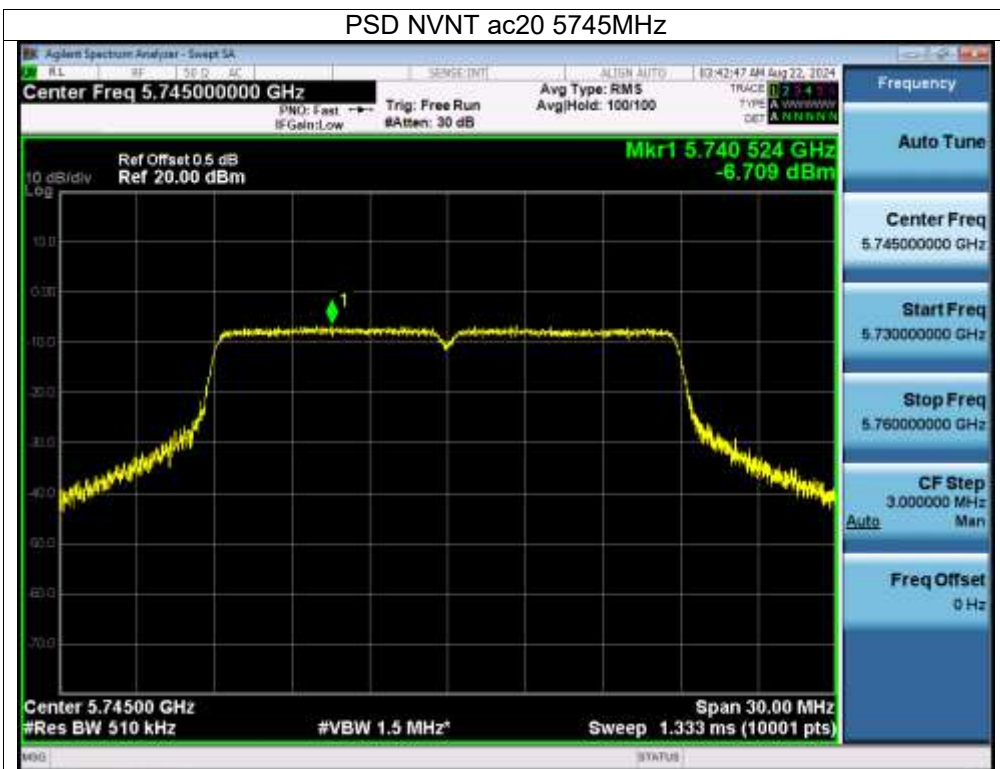
PSD NVNT n40 5755MHz



PSD NVNT n40 5795MHz



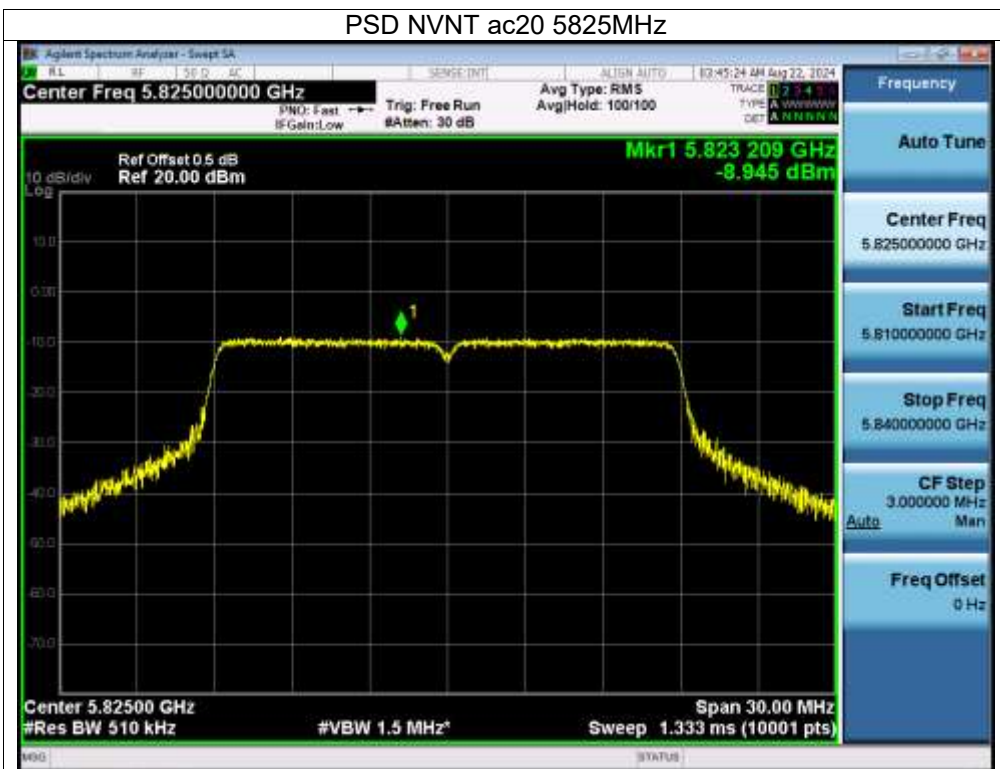
PSD NVNT ac20 5745MHz



PSD NVNT ac20 5785MHz



PSD NVNT ac20 5825MHz



PSD NVNT ac40 5755MHz



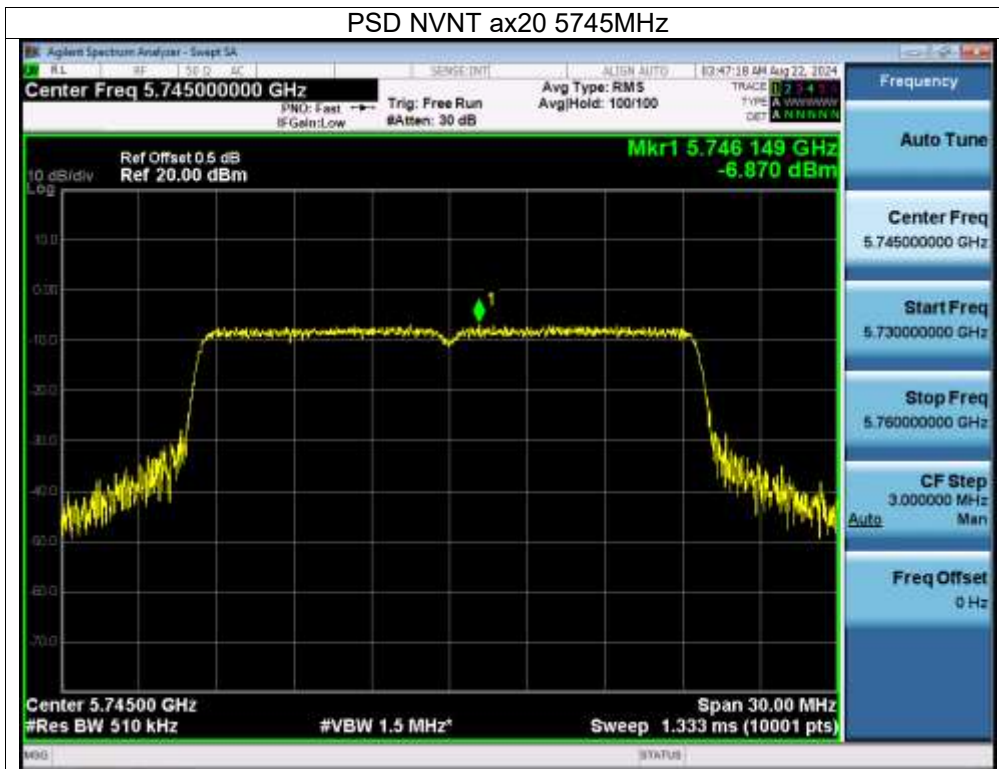
PSD NVNT ac40 5795MHz



PSD NVNT ac80 5775MHz



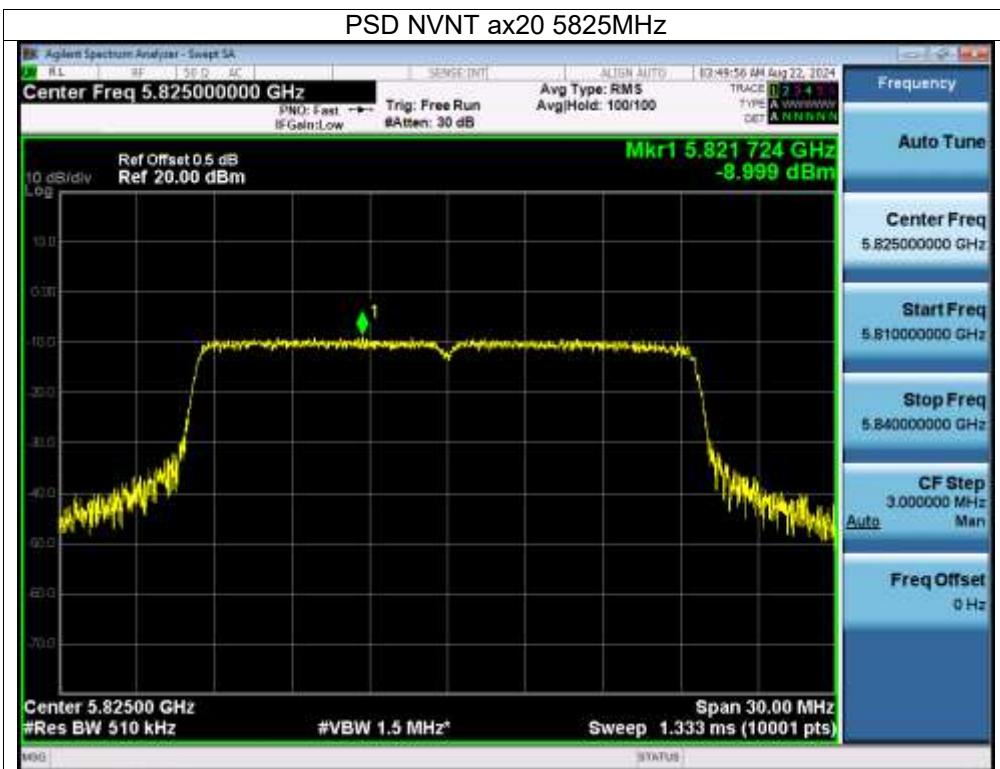
PSD NVNT ax20 5745MHz



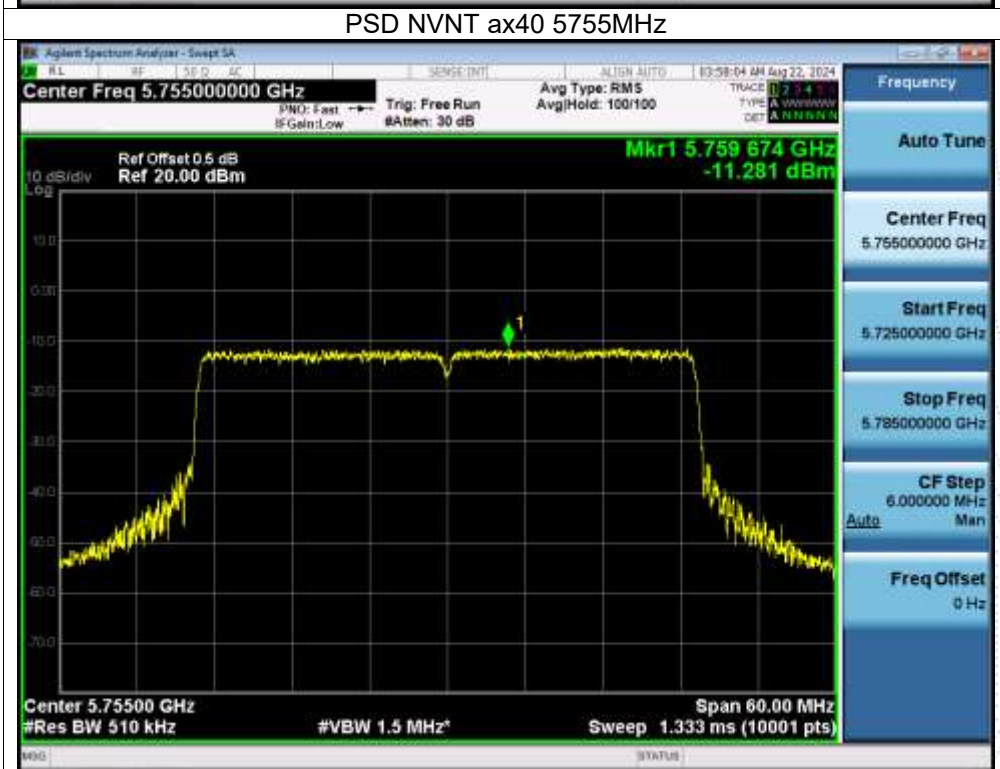
PSD NVNT ax20 5785MHz



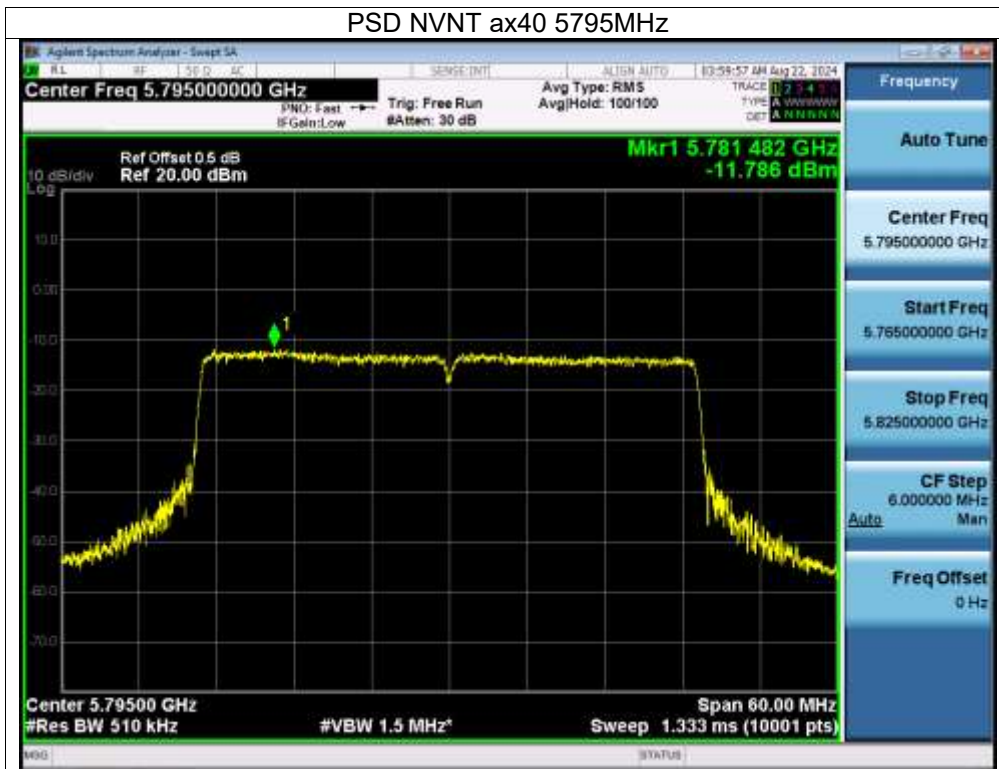
PSD NVNT ax20 5825MHz



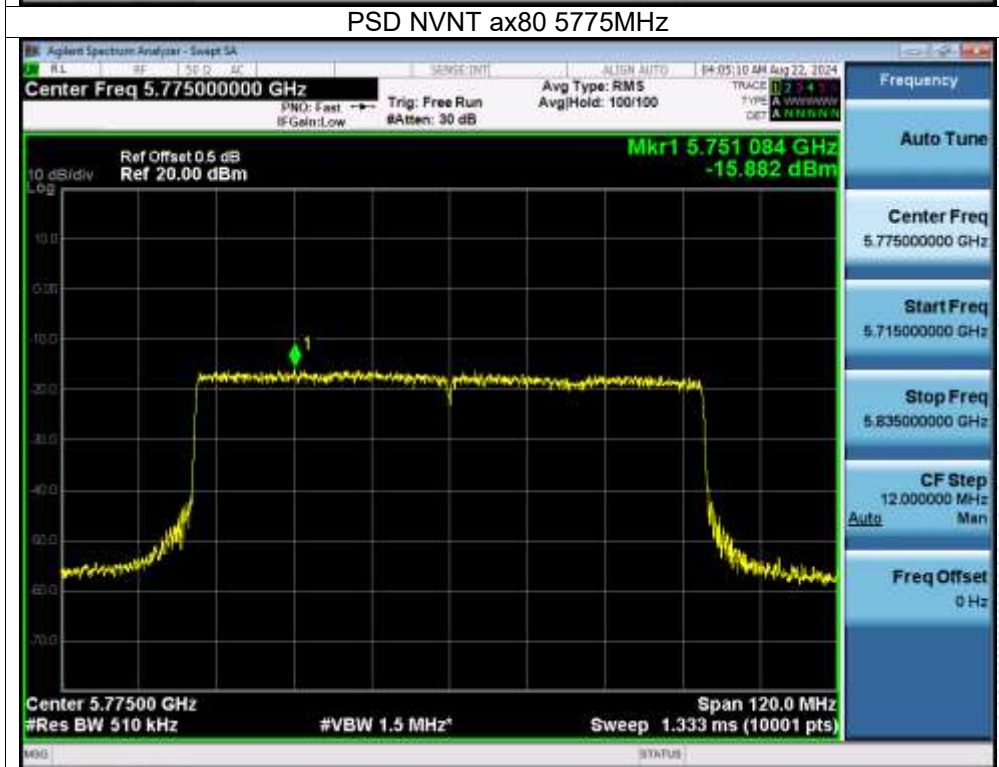
PSD NVNT ax40 5755MHz



PSD NVNT ax40 5795MHz

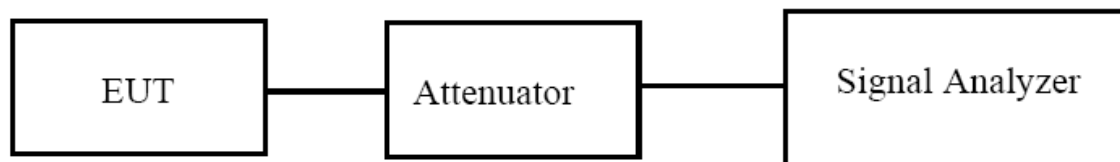


PSD NVNT ax80 5775MHz



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

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- 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:

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.
- Set RBW = 1 % to 5 % of the OBW
- Set VBW $\geq 3 \cdot$ RBW
- 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.
- Use the 99 % power bandwidth function of the instrument (if available).
- 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

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- Detector = Peak.
- Trace mode = max hold.
- 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.

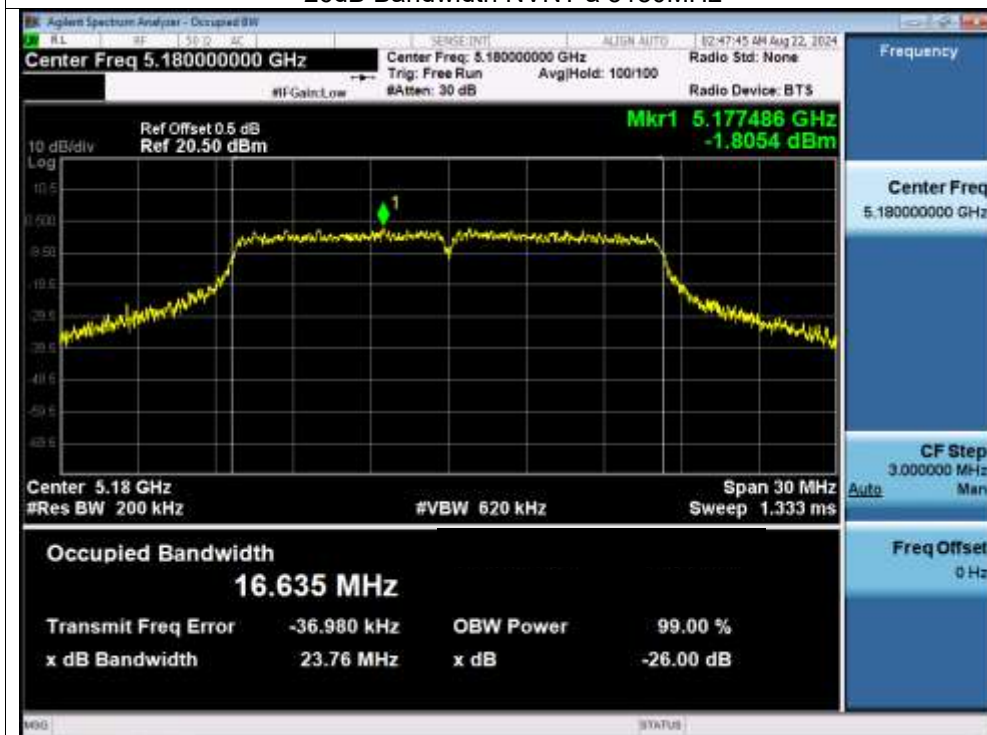
9.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5180-5240MHz)		

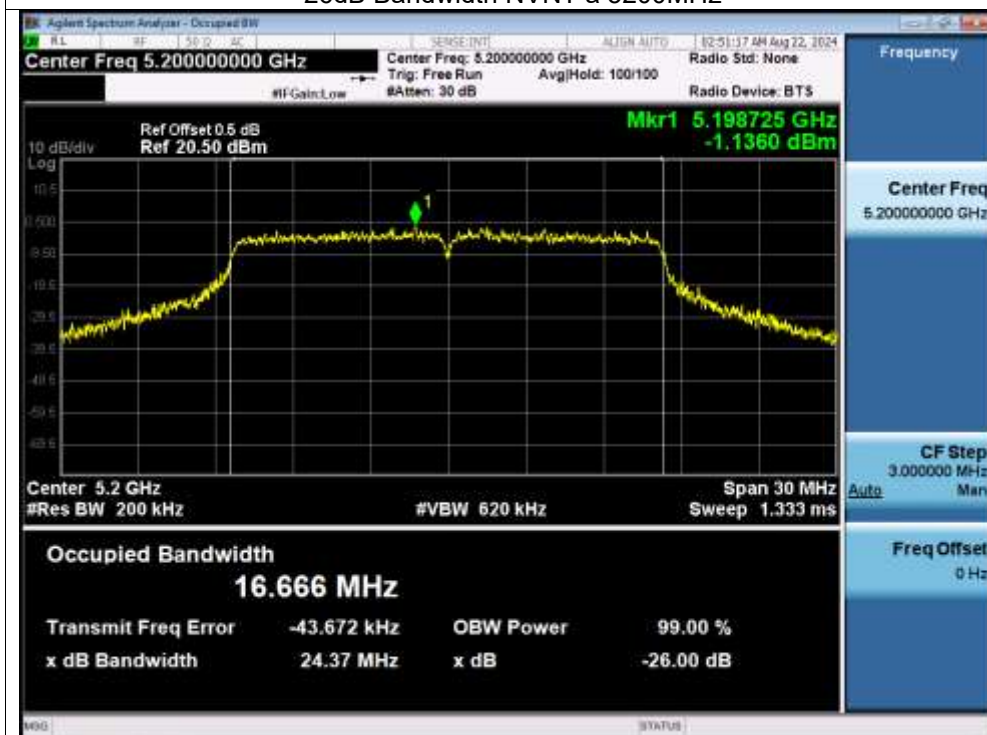
Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	26dB bandwidth (MHz)	Result
NVNT	a	5180	16.62	23.761	Pass
NVNT	a	5200	16.672	24.373	Pass
NVNT	a	5240	16.681	24.897	Pass
NVNT	n20	5180	17.858	24.375	Pass
NVNT	n20	5200	17.825	25.683	Pass
NVNT	n20	5240	17.822	23.96	Pass
NVNT	n40	5190	36.349	44.58	Pass
NVNT	n40	5230	36.345	45.453	Pass
NVNT	ac20	5180	17.819	24.984	Pass
NVNT	ac20	5200	17.865	24.49	Pass
NVNT	ac20	5240	17.83	24.796	Pass
NVNT	ac40	5190	36.337	46.201	Pass
NVNT	ac40	5230	36.367	45.48	Pass
NVNT	ac80	5210	75.751	86.543	Pass
NVNT	ax20	5180	19.027	24.538	Pass
NVNT	ax20	5200	19.035	25.313	Pass
NVNT	ax20	5240	18.991	23.452	Pass
NVNT	ax40	5190	37.736	43.345	Pass
NVNT	ax40	5230	37.763	43.195	Pass
NVNT	ax80	5210	77.244	84.066	Pass

Test Graphs

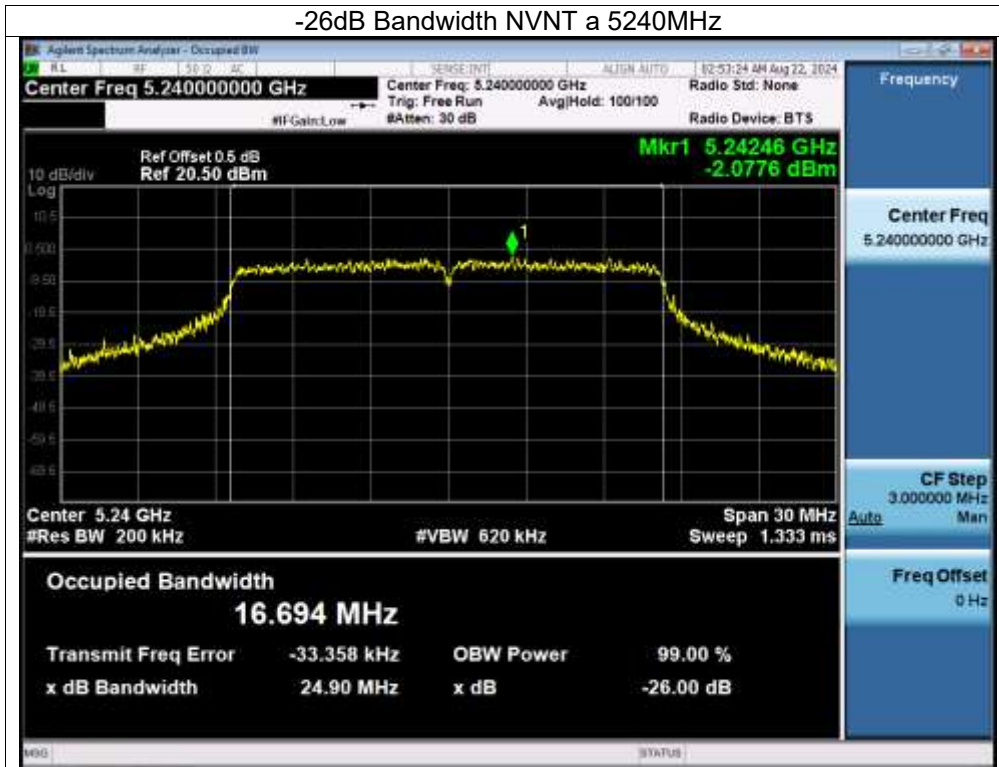
-26dB Bandwidth NVNT a 5180MHz



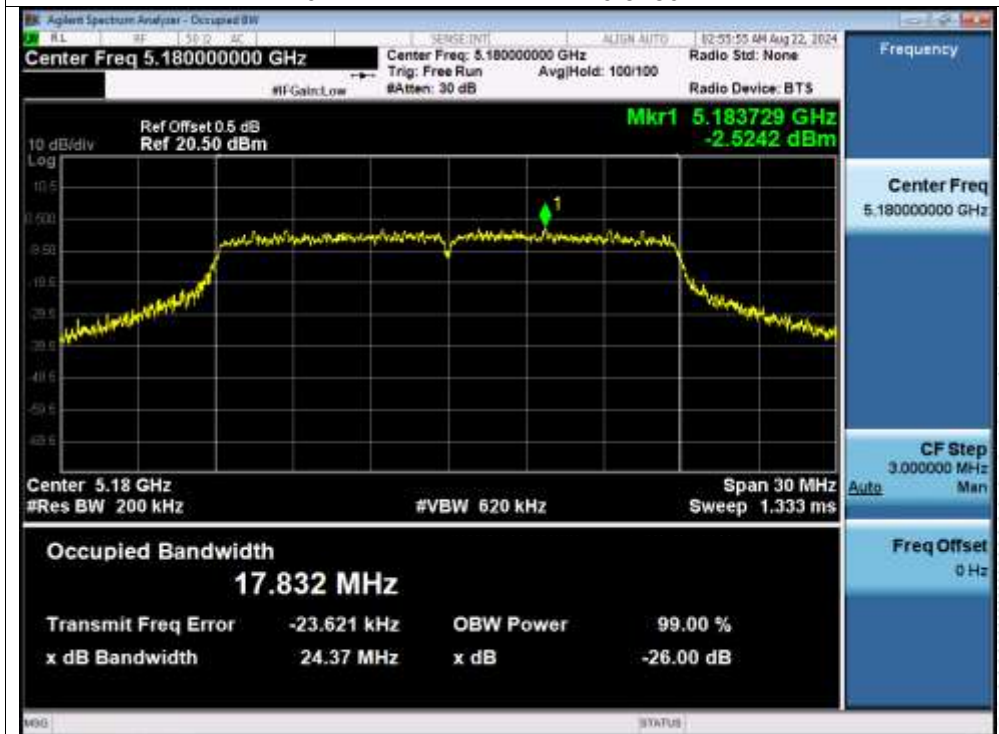
-26dB Bandwidth NVNT a 5200MHz



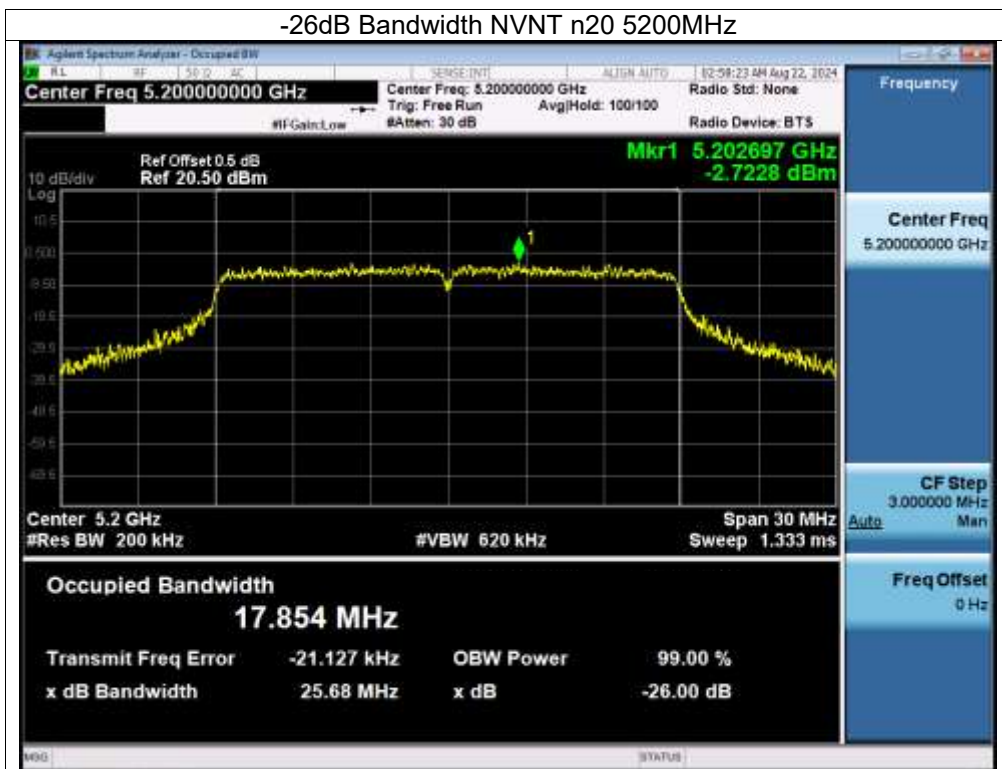
-26dB Bandwidth NVNT a 5240MHz



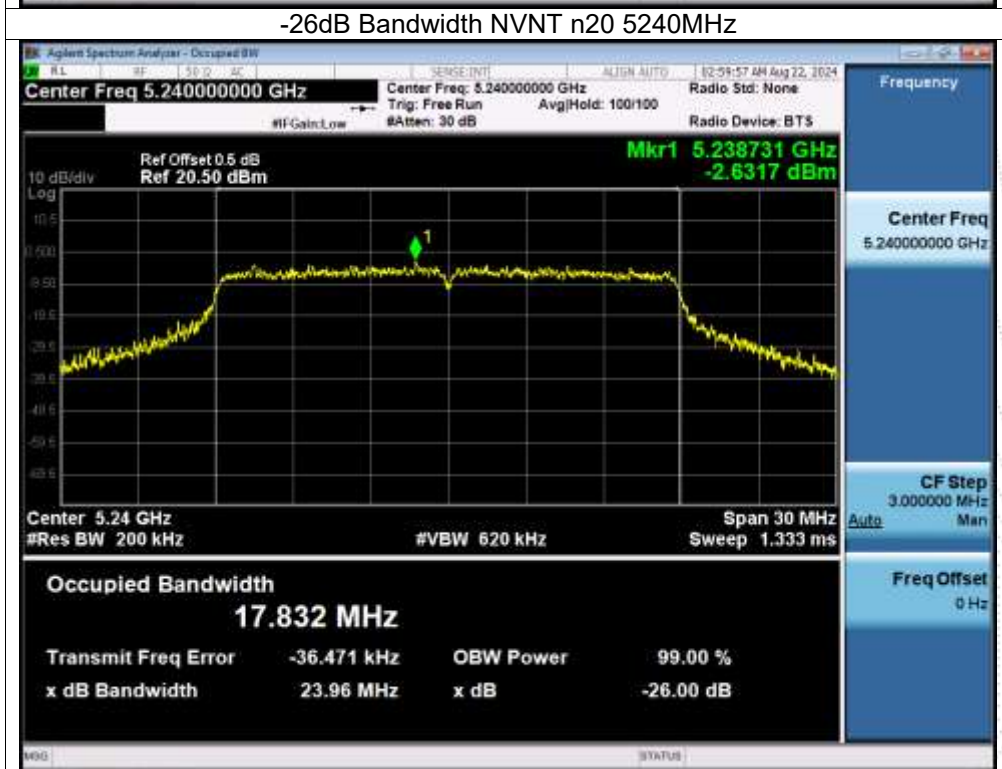
-26dB Bandwidth NVNT n20 5180MHz



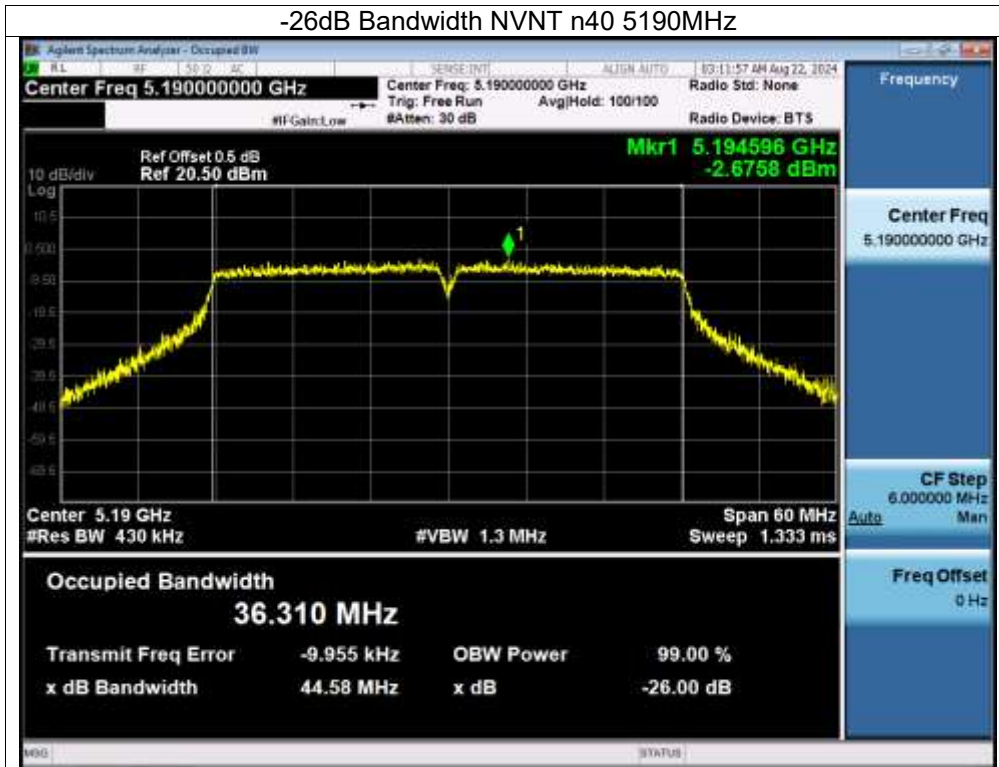
-26dB Bandwidth NVNT n20 5200MHz



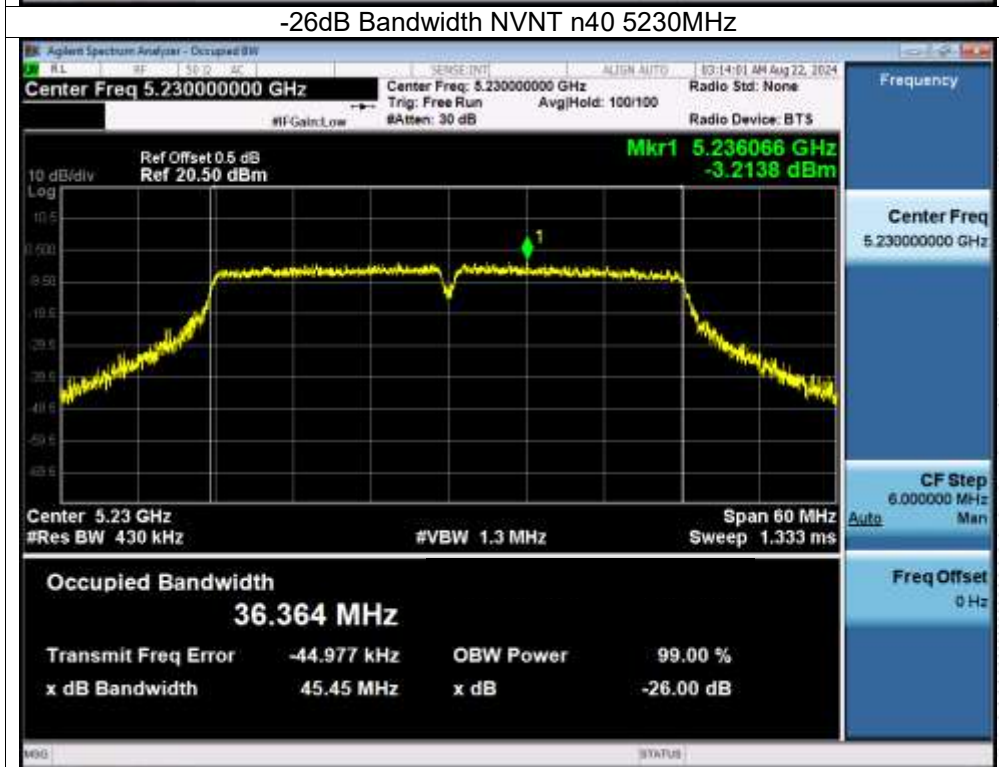
-26dB Bandwidth NVNT n20 5240MHz



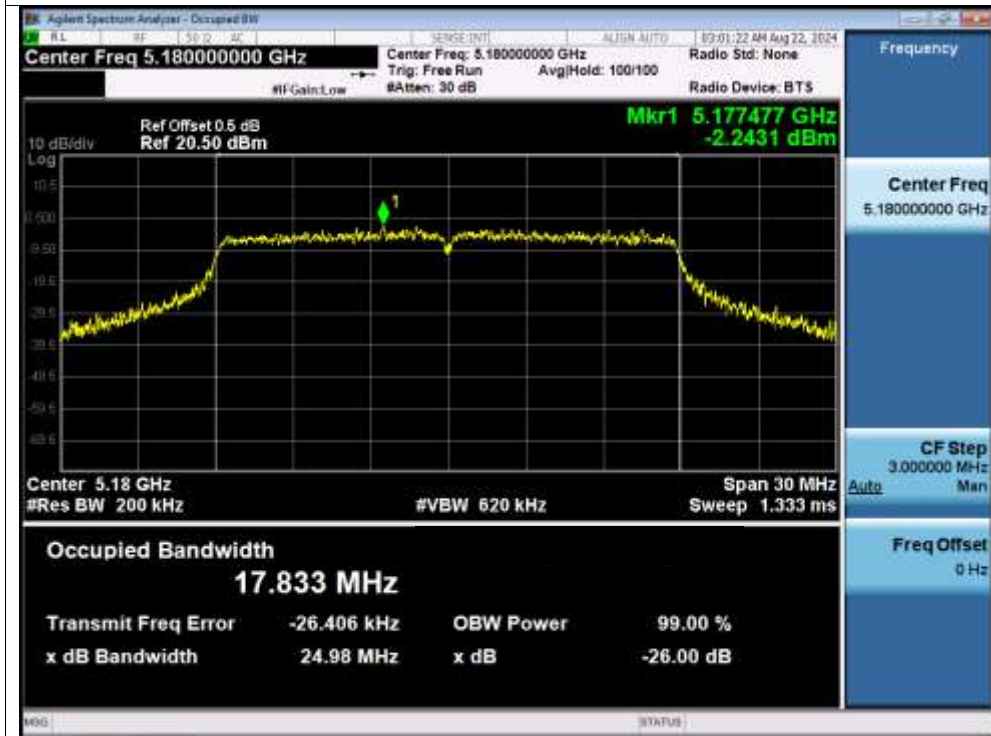
-26dB Bandwidth NVNT n40 5190MHz



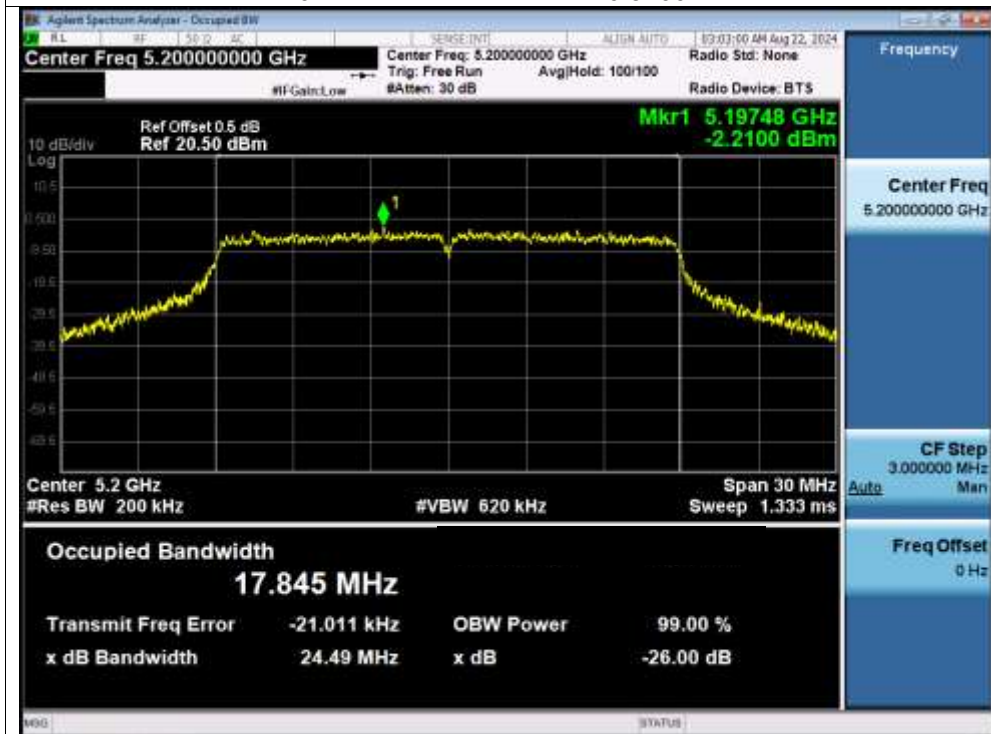
-26dB Bandwidth NVNT n40 5230MHz



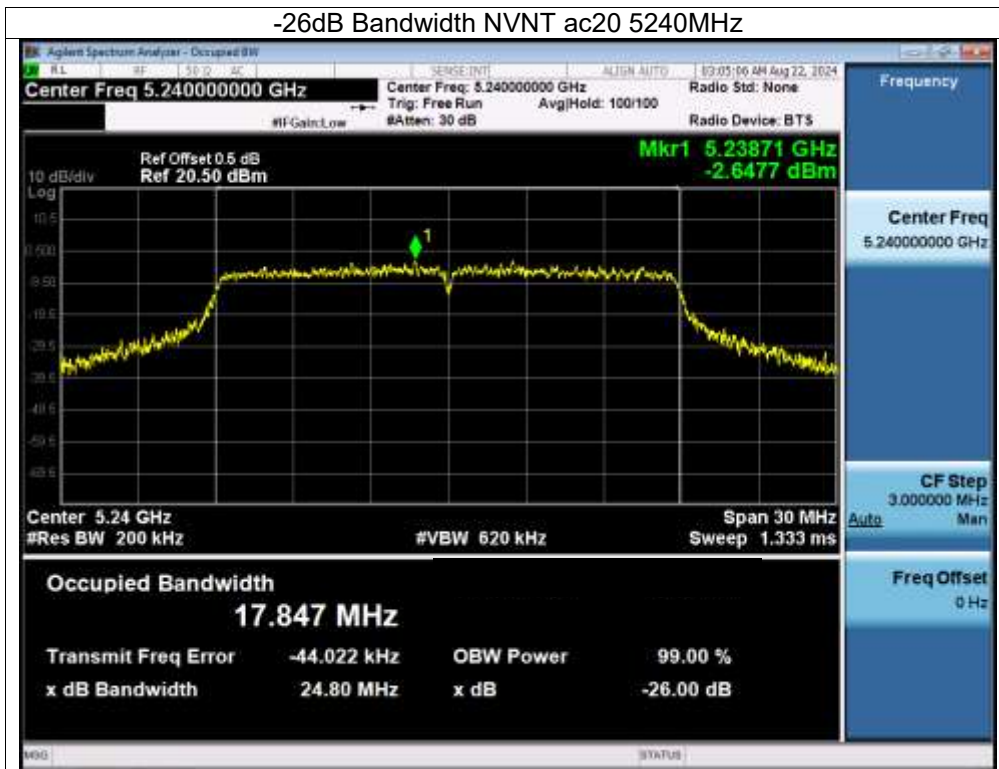
-26dB Bandwidth NVNT ac20 5180MHz



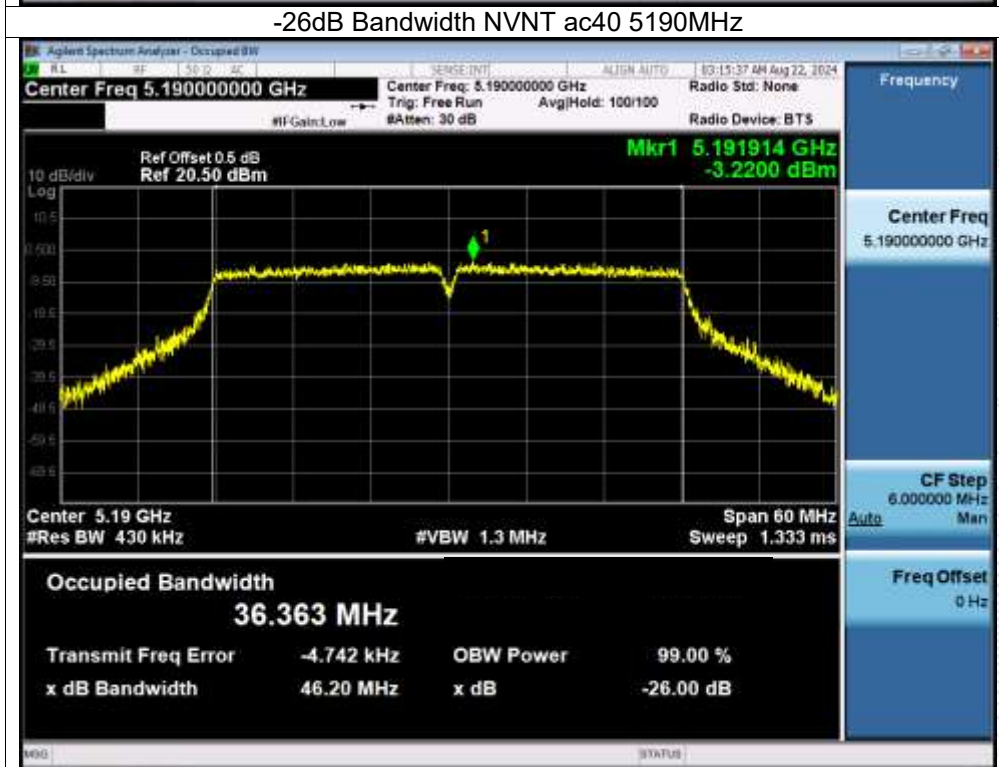
-26dB Bandwidth NVNT ac20 5200MHz



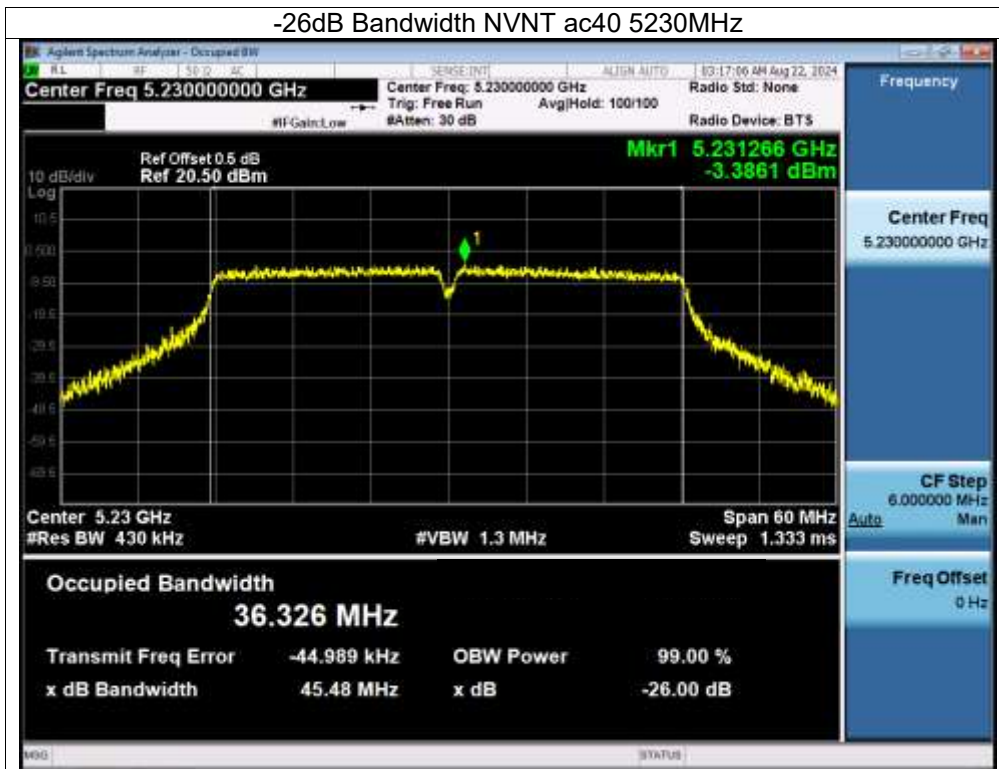
-26dB Bandwidth NVNT ac20 5240MHz



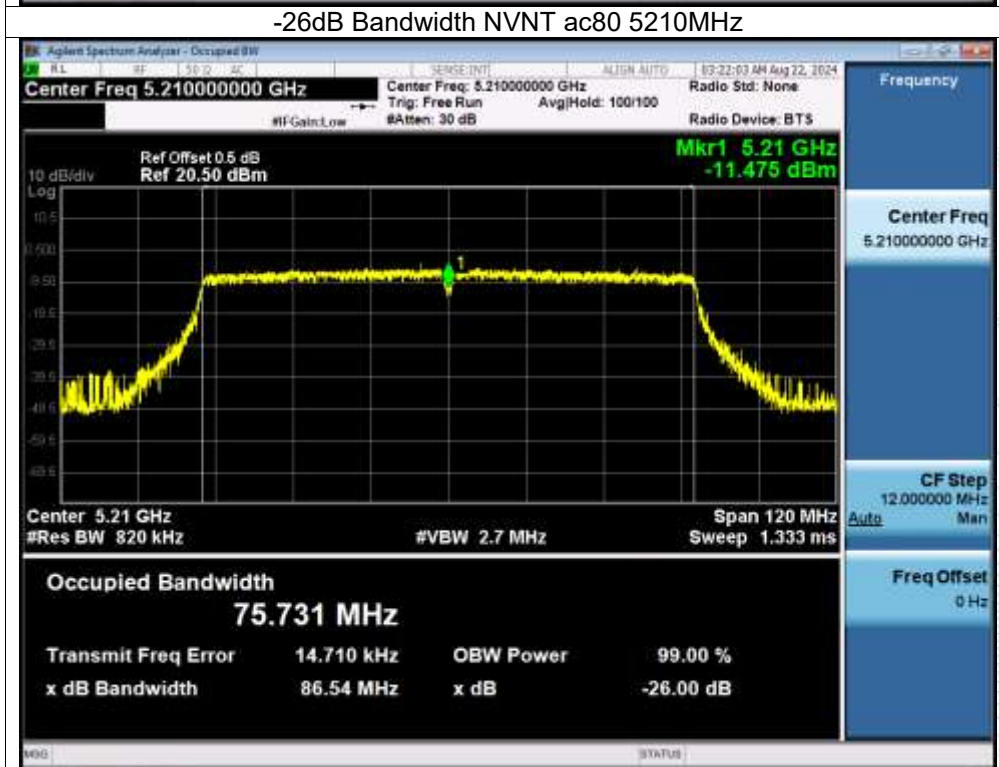
-26dB Bandwidth NVNT ac40 5190MHz



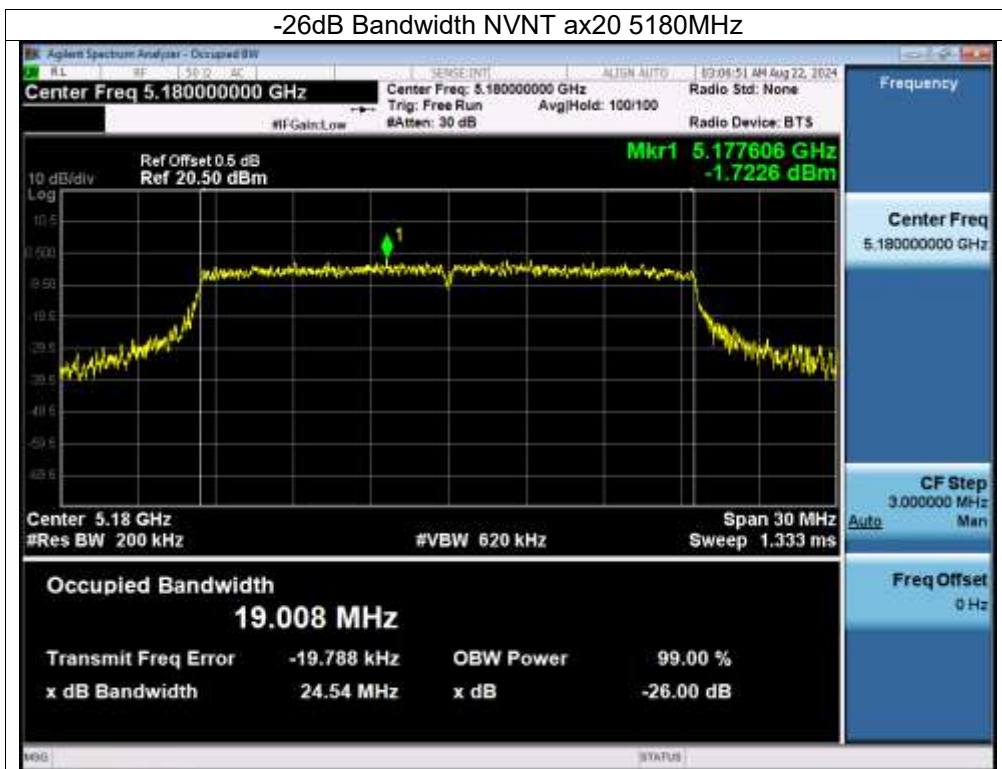
-26dB Bandwidth NVNT ac40 5230MHz



-26dB Bandwidth NVNT ac80 5210MHz



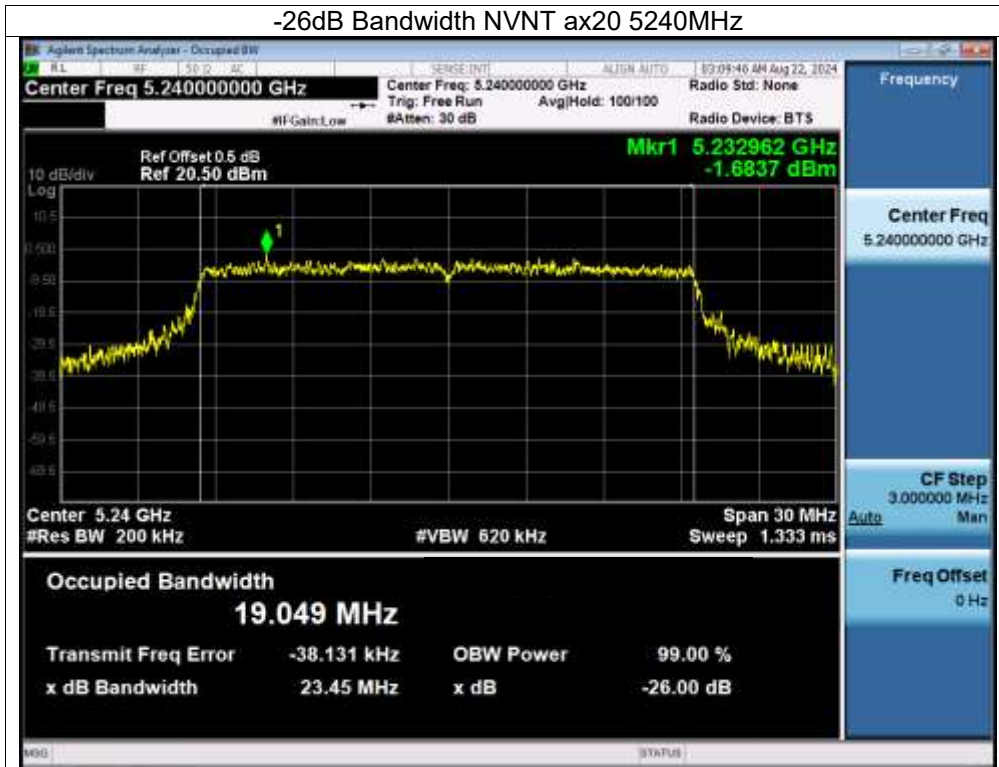
-26dB Bandwidth NVNT ax20 5180MHz



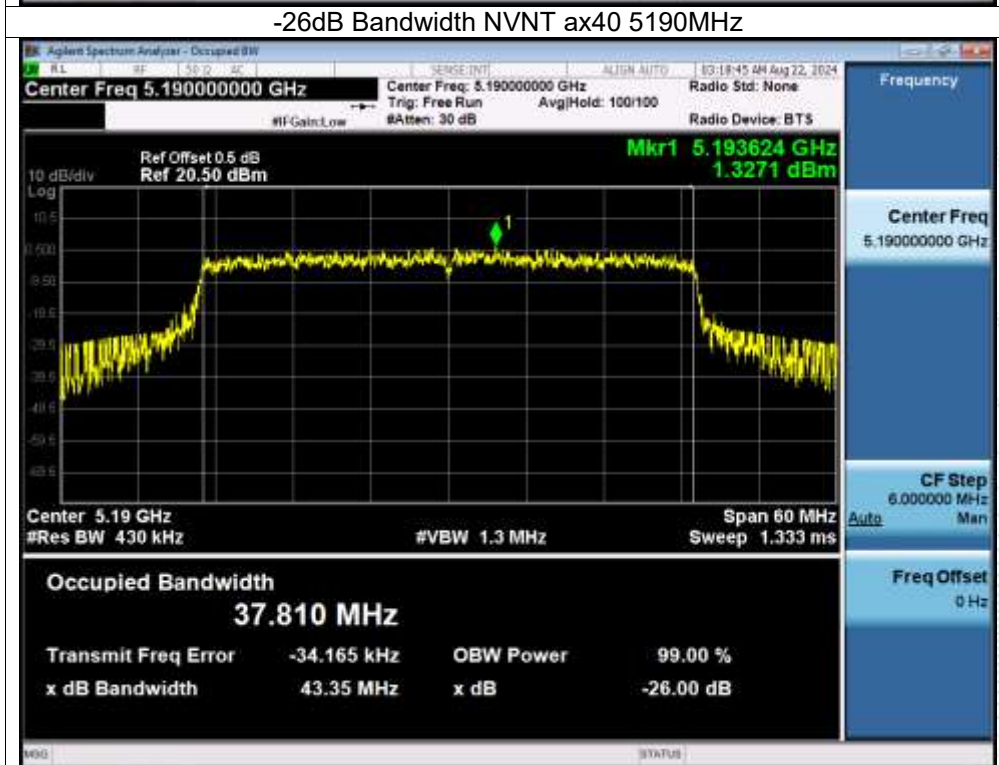
-26dB Bandwidth NVNT ax20 5200MHz



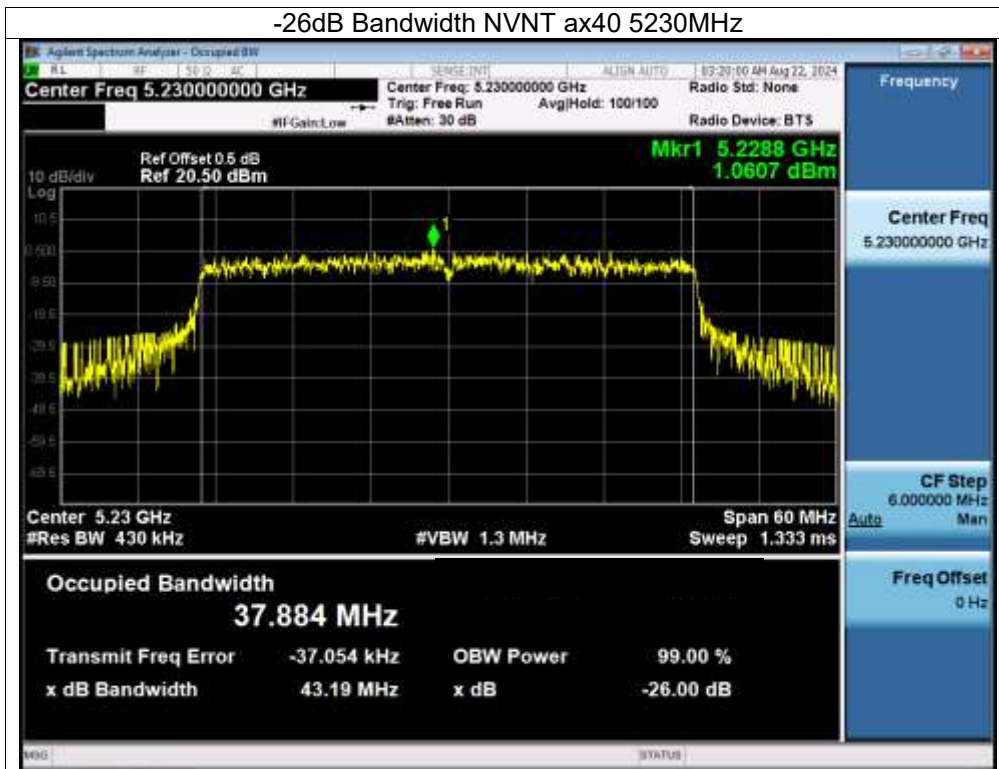
-26dB Bandwidth NVNT ax20 5240MHz



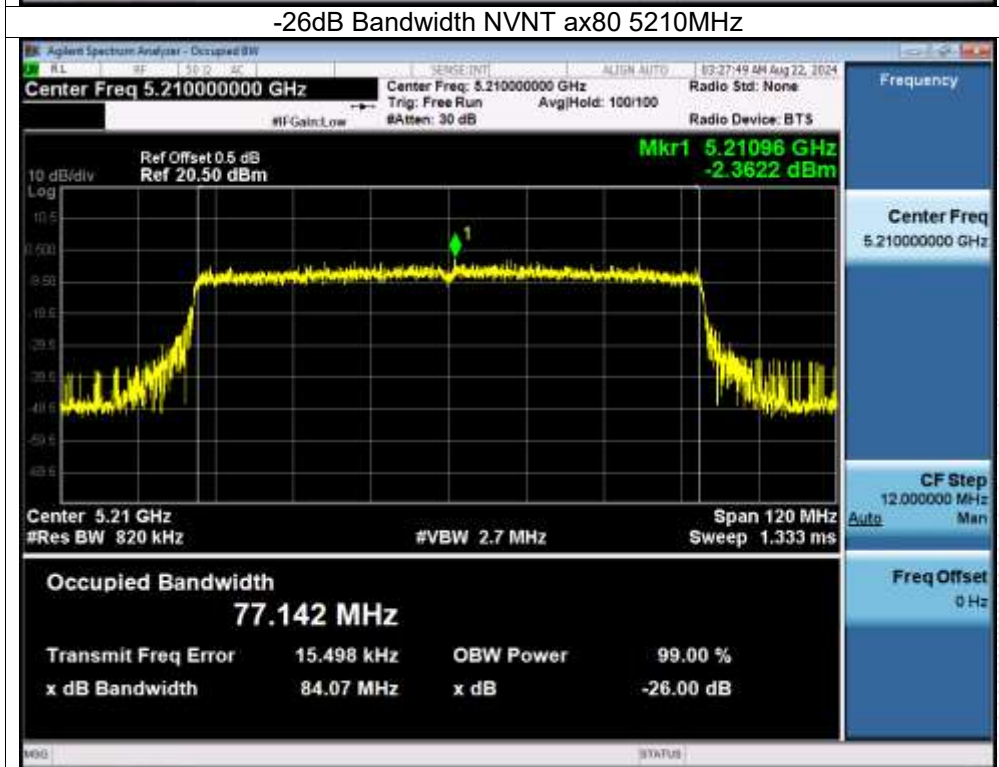
-26dB Bandwidth NVNT ax40 5190MHz



-26dB Bandwidth NVNT ax40 5230MHz



-26dB Bandwidth NVNT ax80 5210MHz



Test Graphs

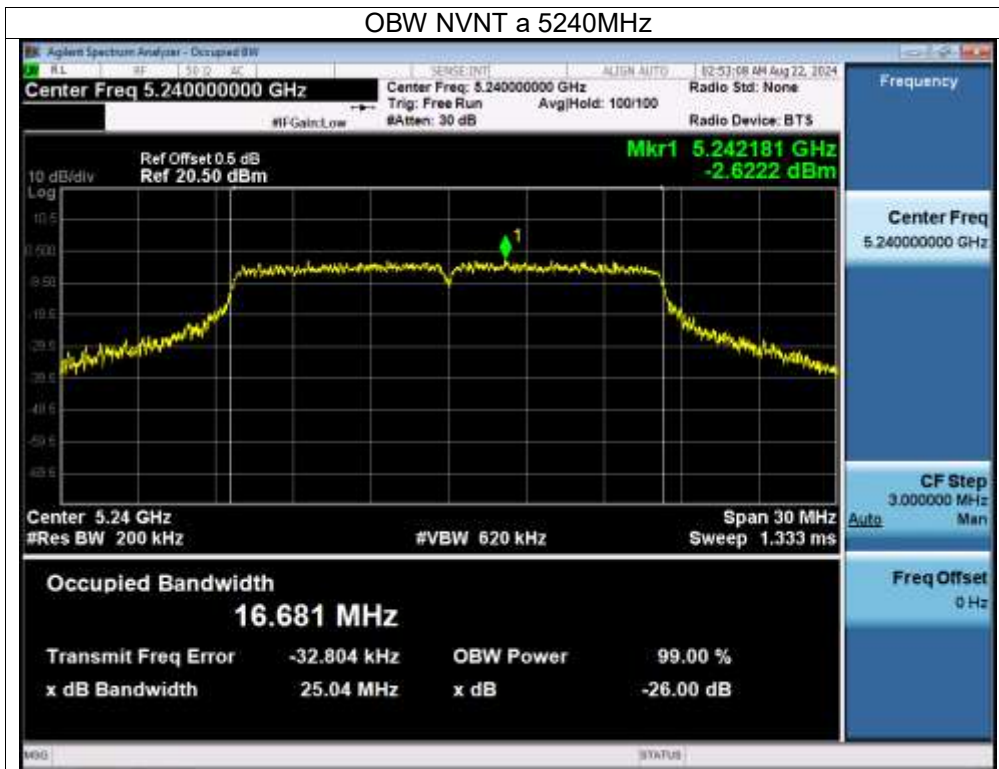
OBW NVNT a 5180MHz



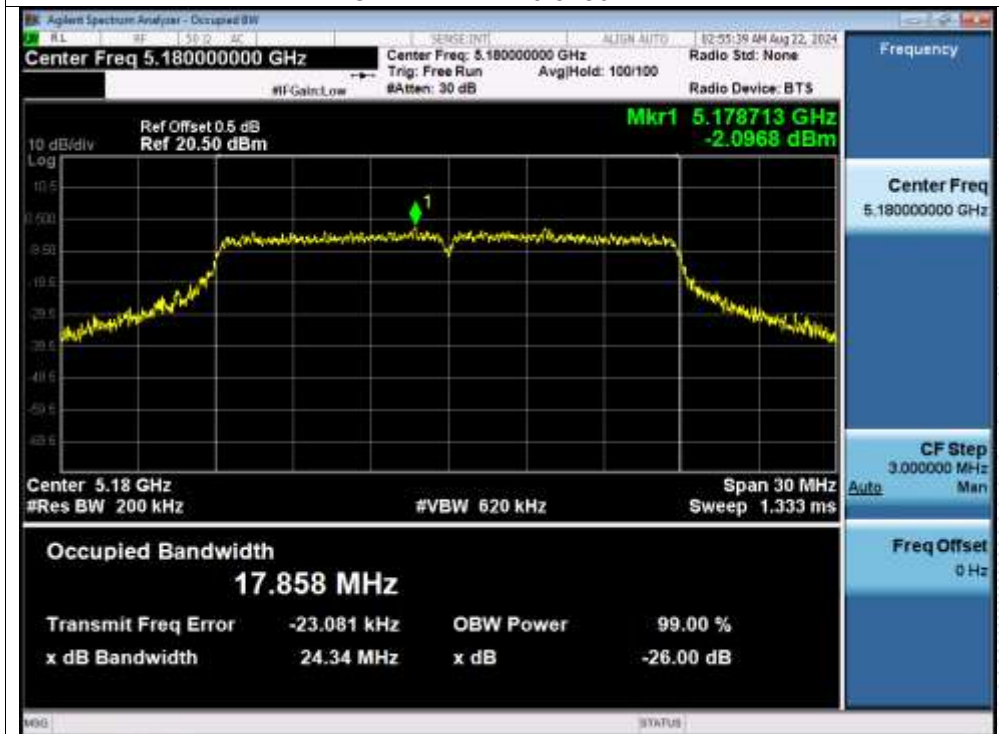
OBW NVNT a 5200MHz



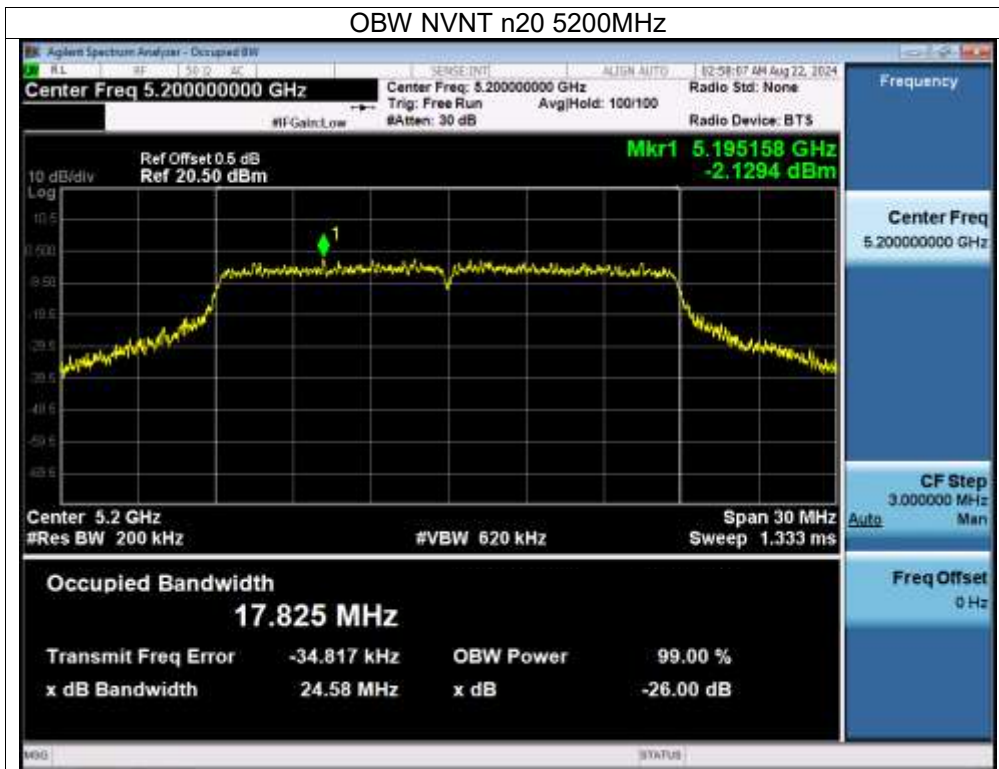
OBW NVNT a 5240MHz



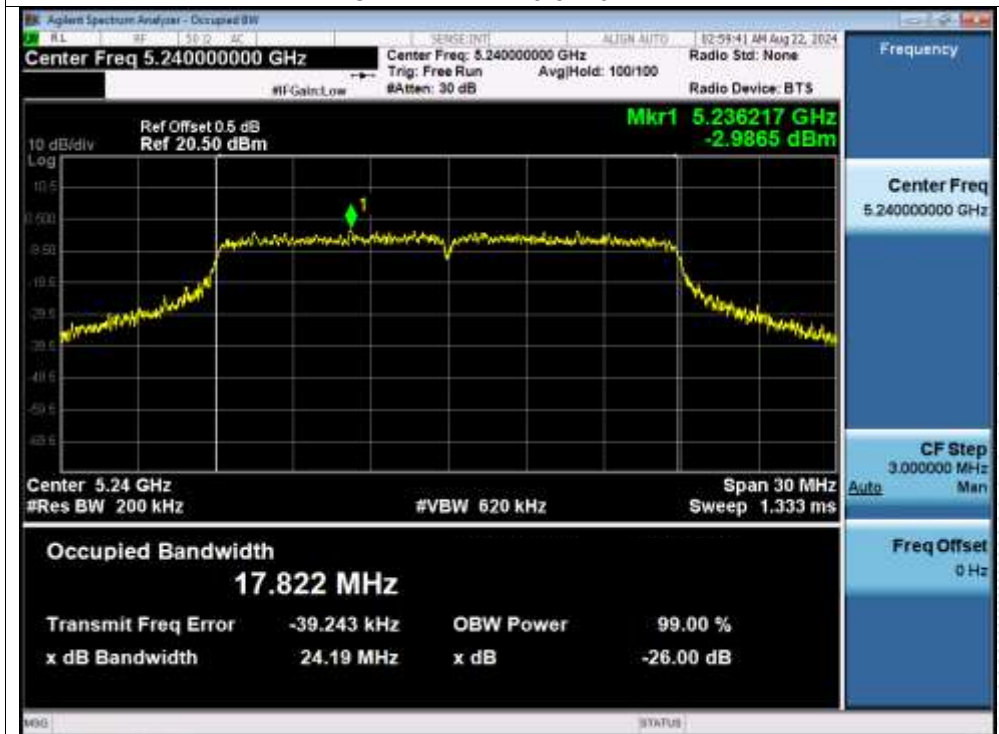
OBW NVNT n20 5180MHz



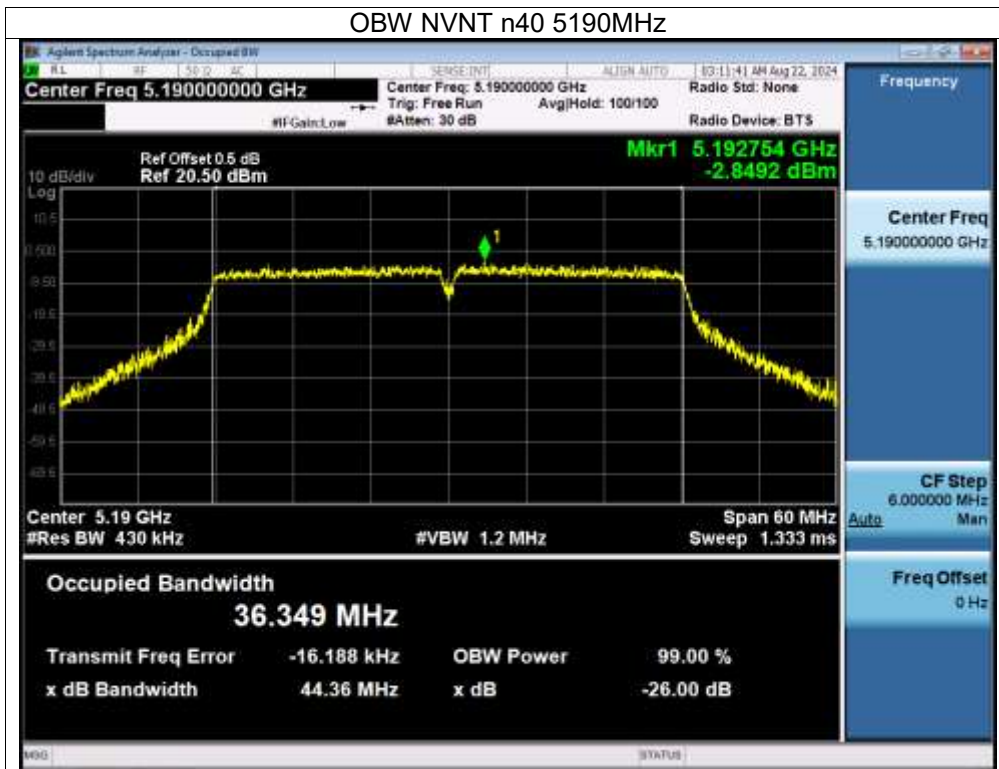
OBW NVNT n20 5200MHz



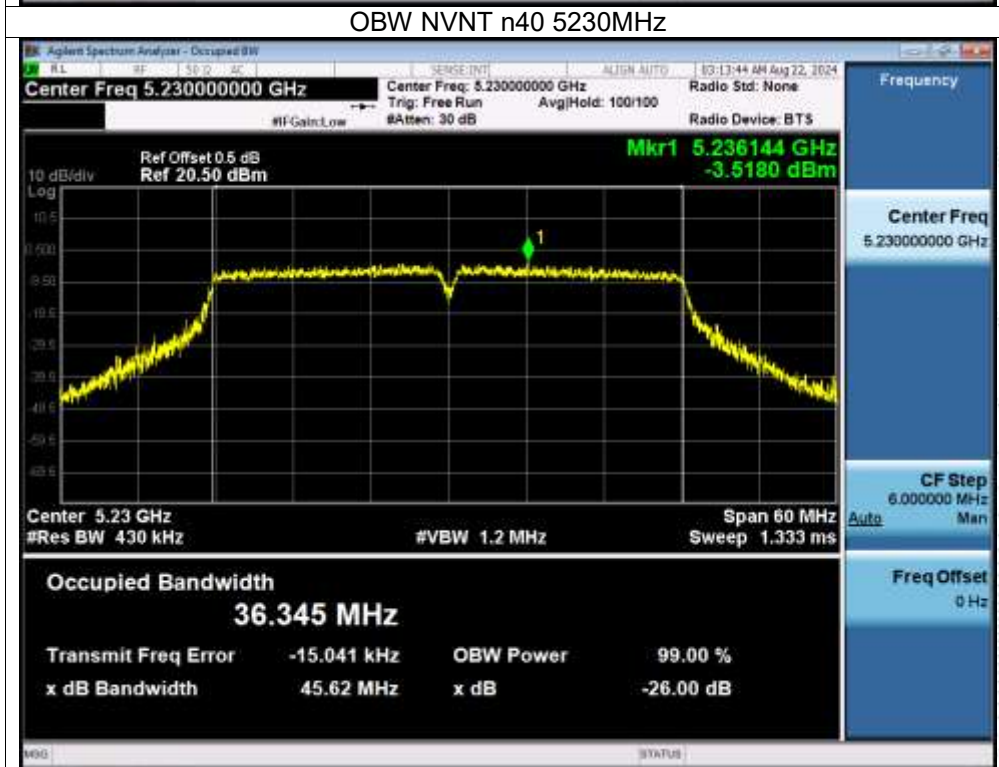
OBW NVNT n20 5240MHz



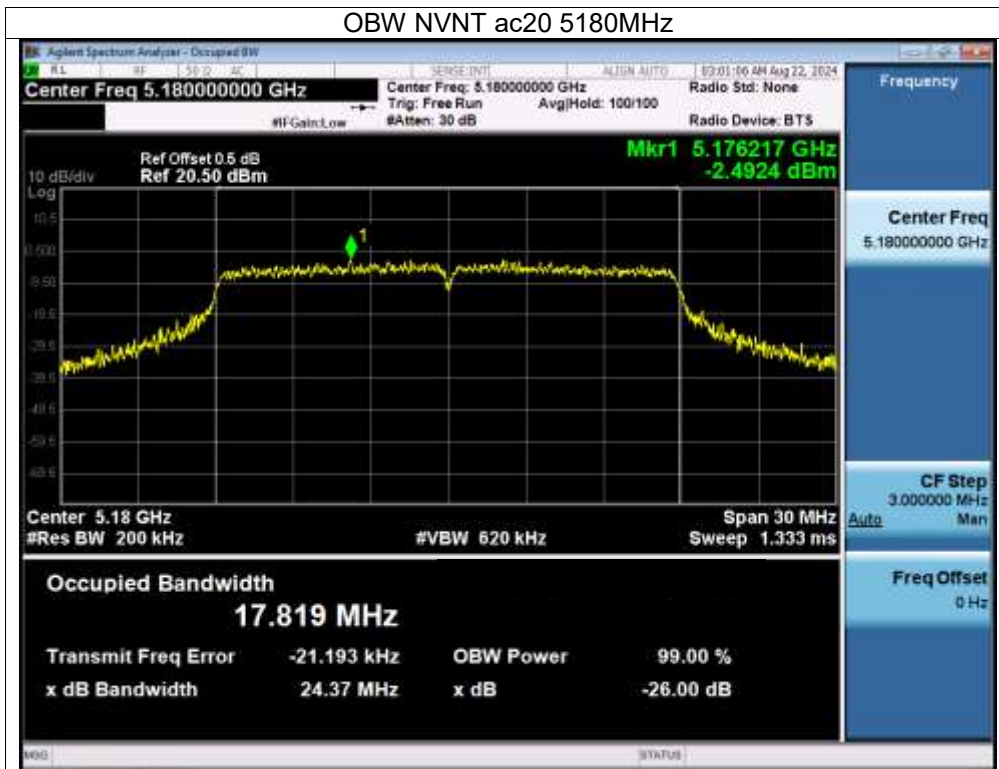
OBW NVNT n40 5190MHz



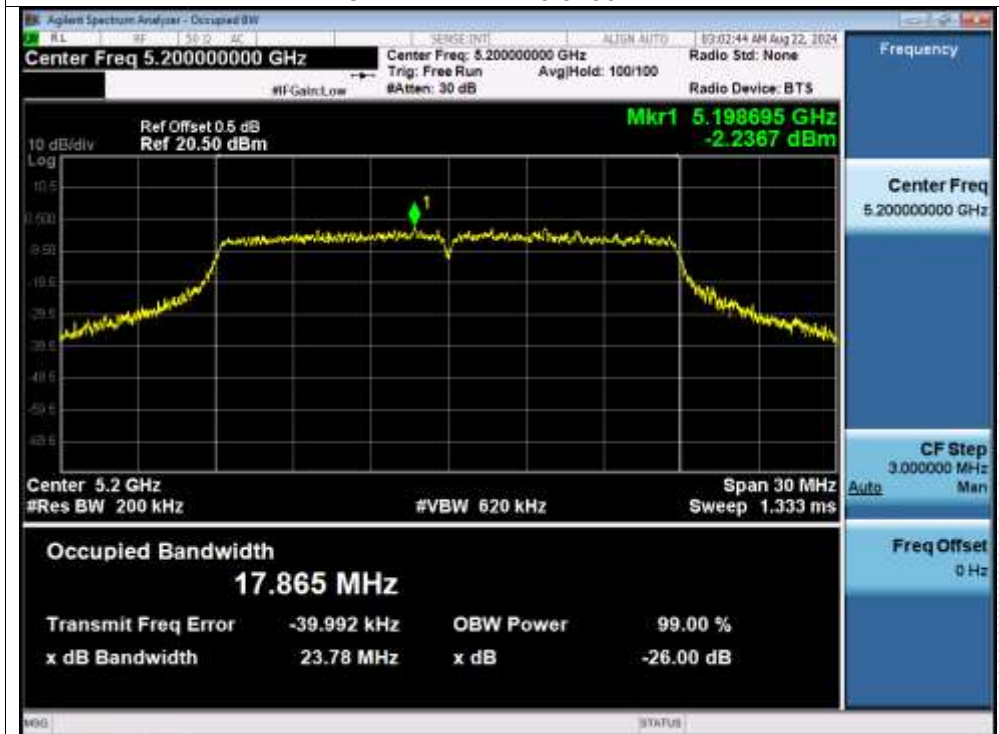
OBW NVNT n40 5230MHz



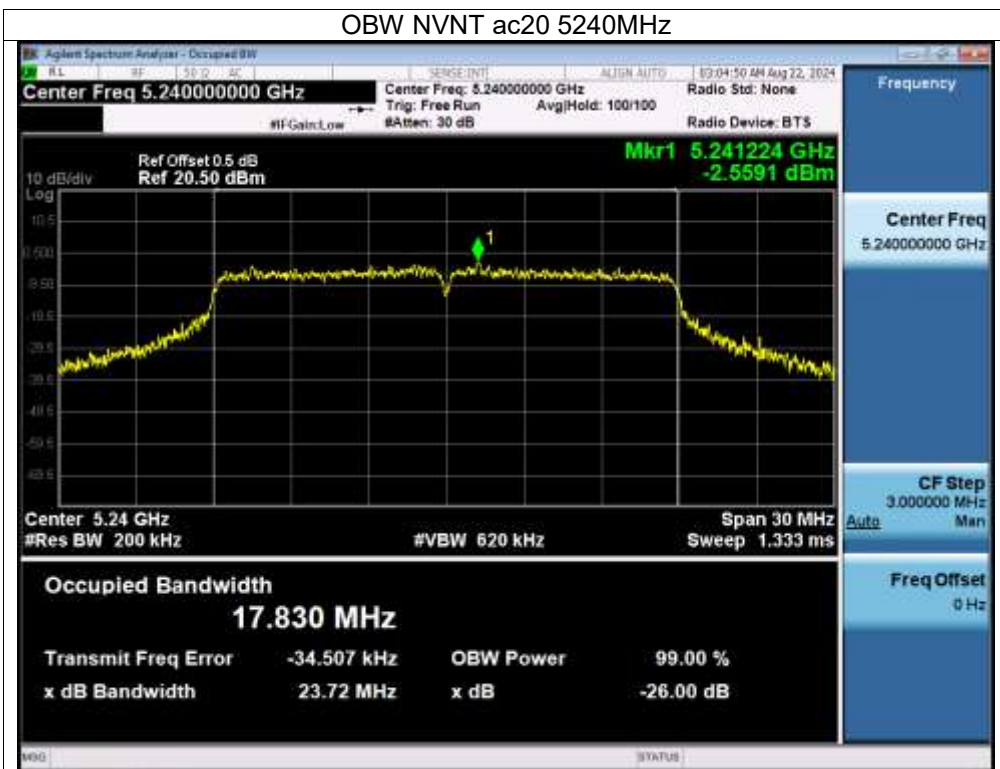
OBW NVNT ac20 5180MHz



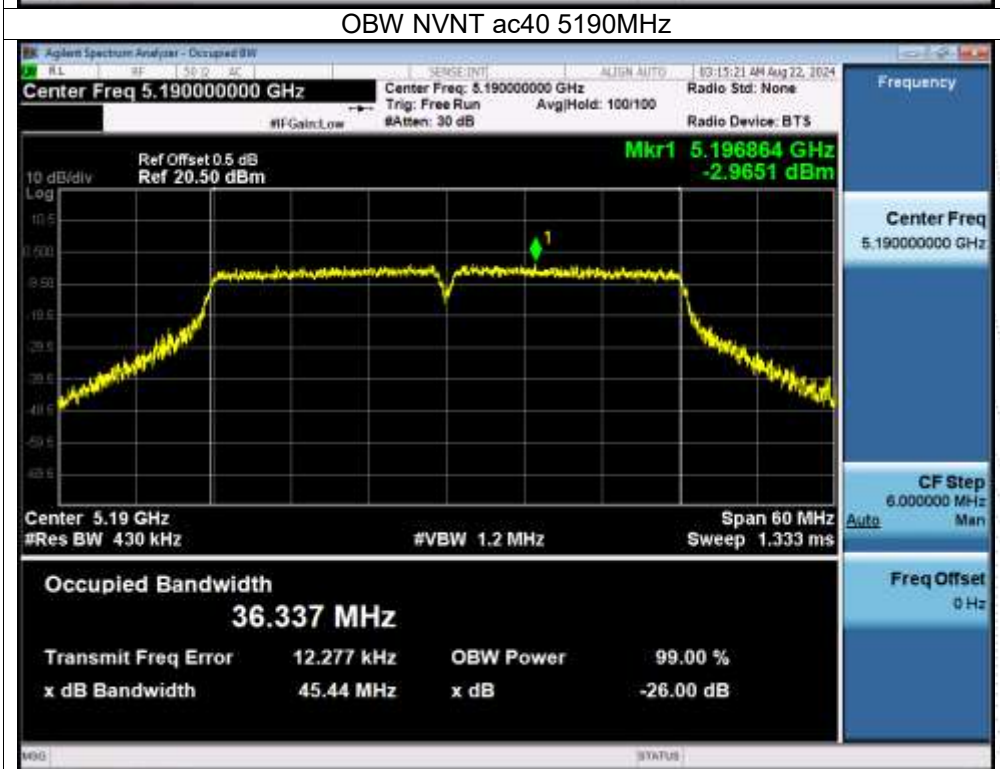
OBW NVNT ac20 5200MHz



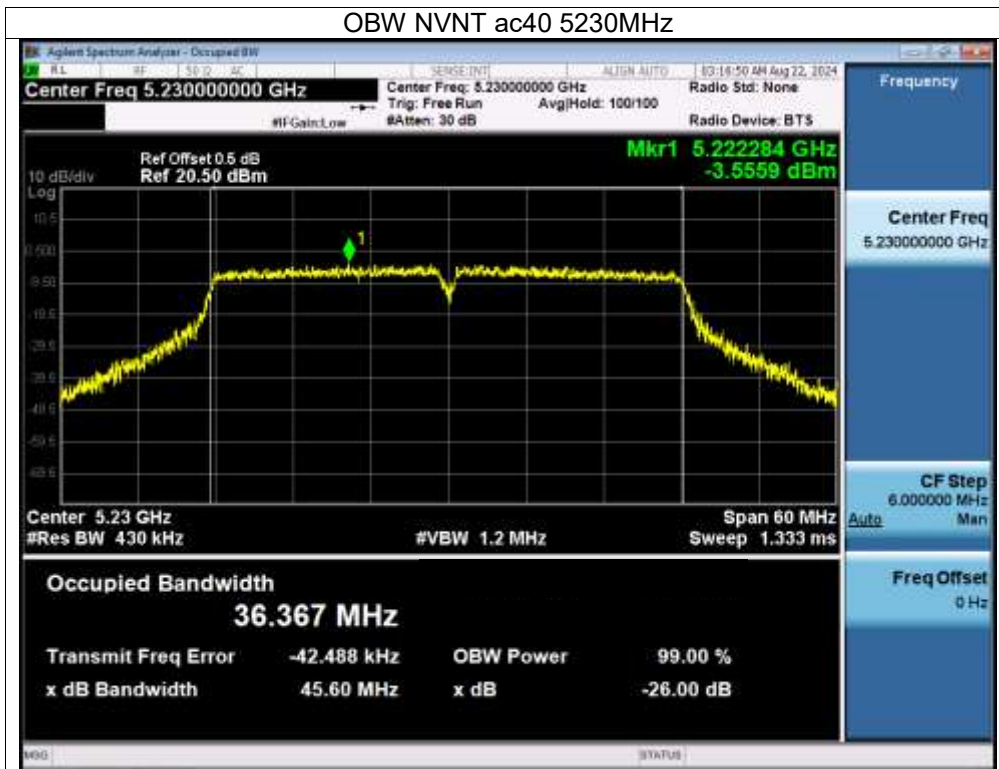
OBW NVNT ac20 5240MHz



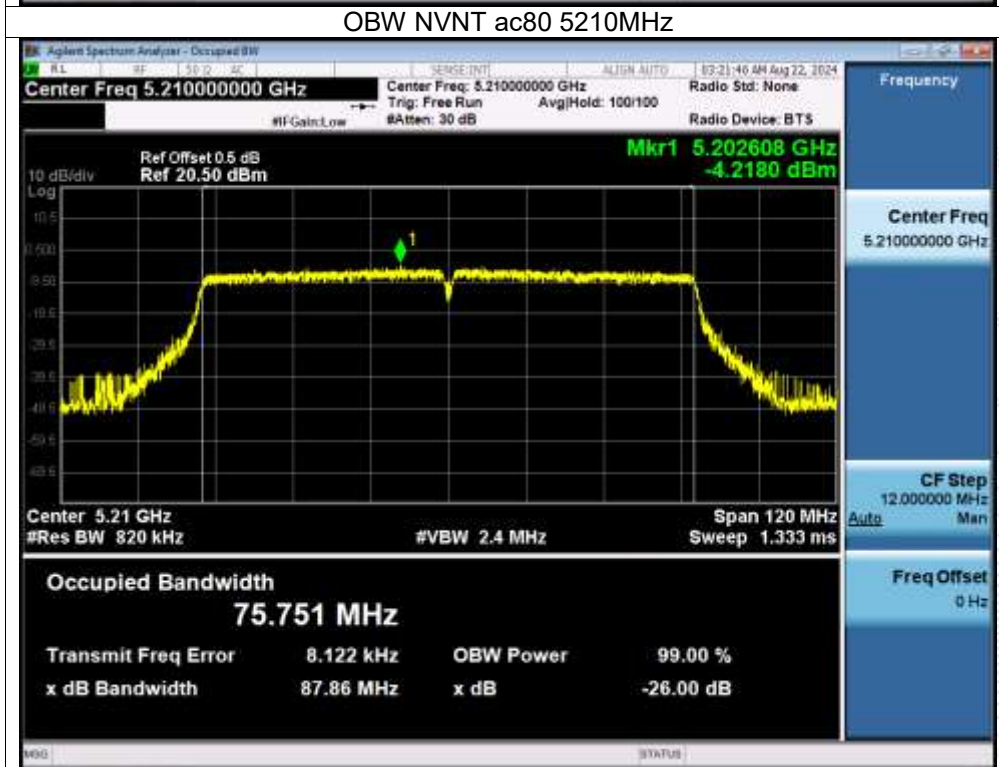
OBW NVNT ac40 5190MHz



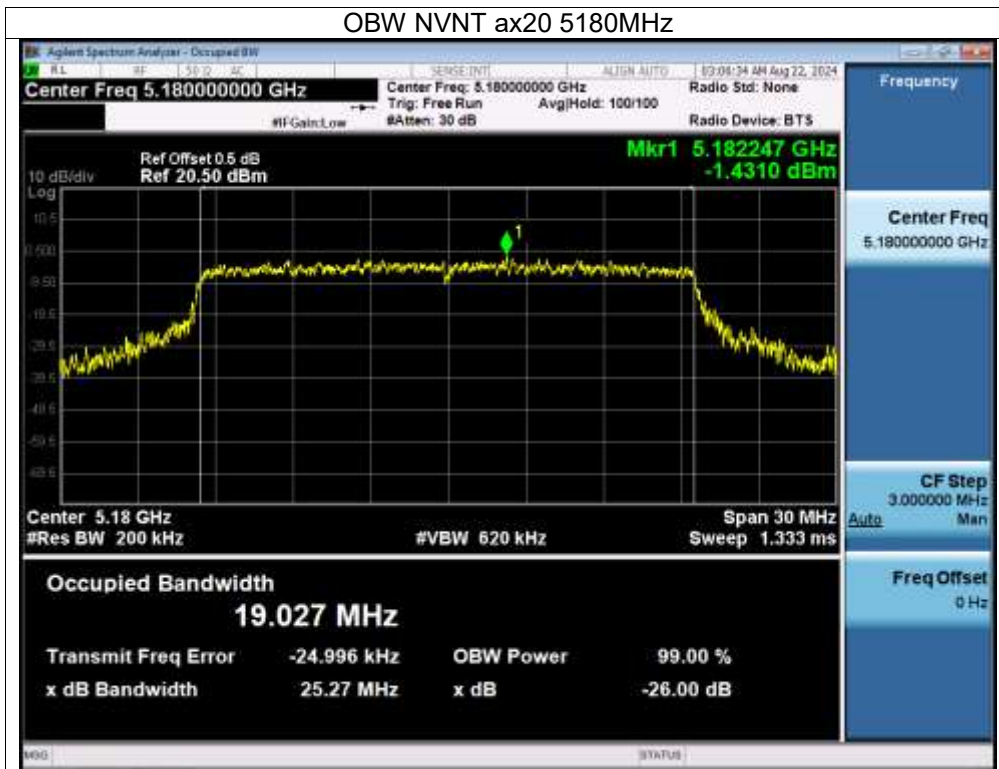
OBW NVNT ac40 5230MHz



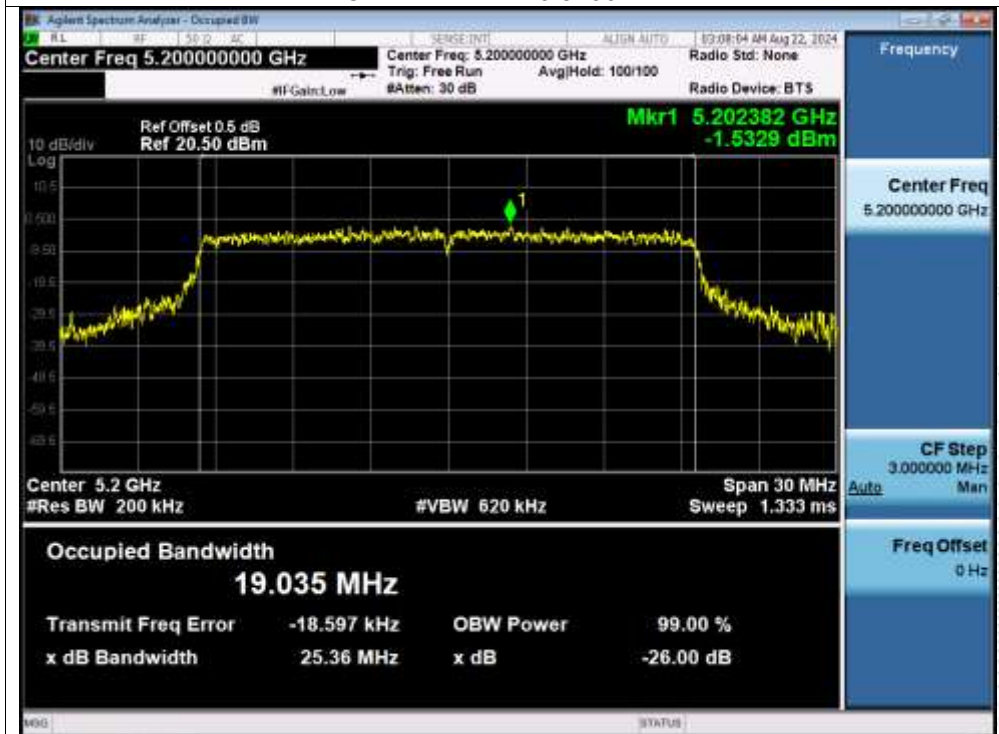
OBW NVNT ac80 5210MHz



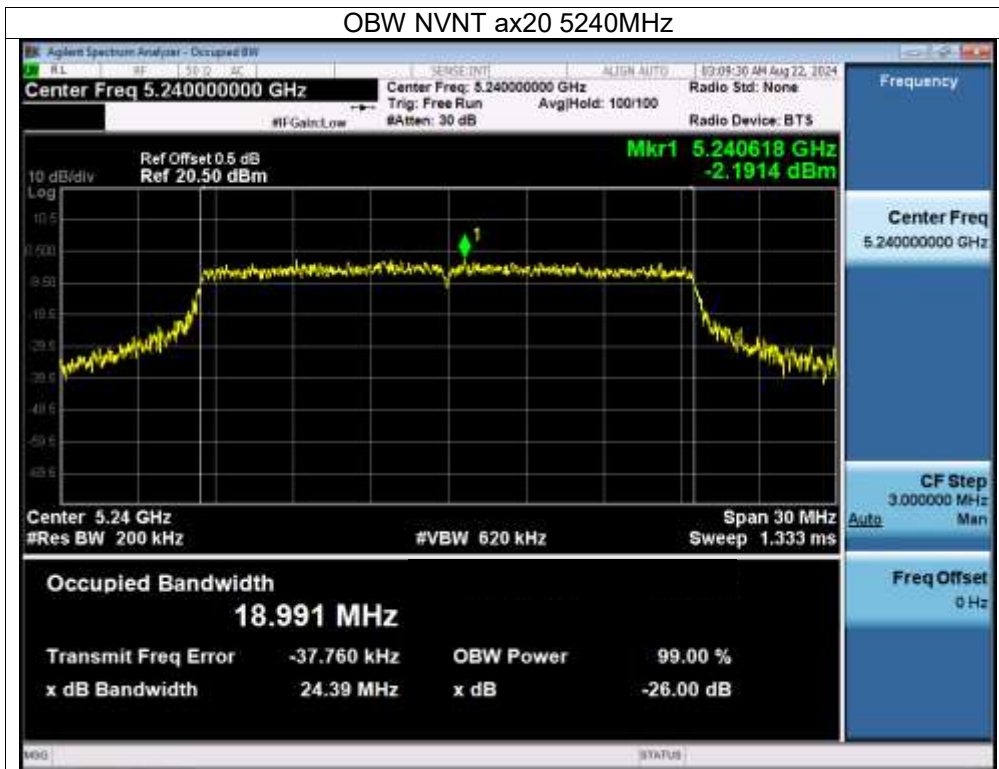
OBW NVNT ax20 5180MHz



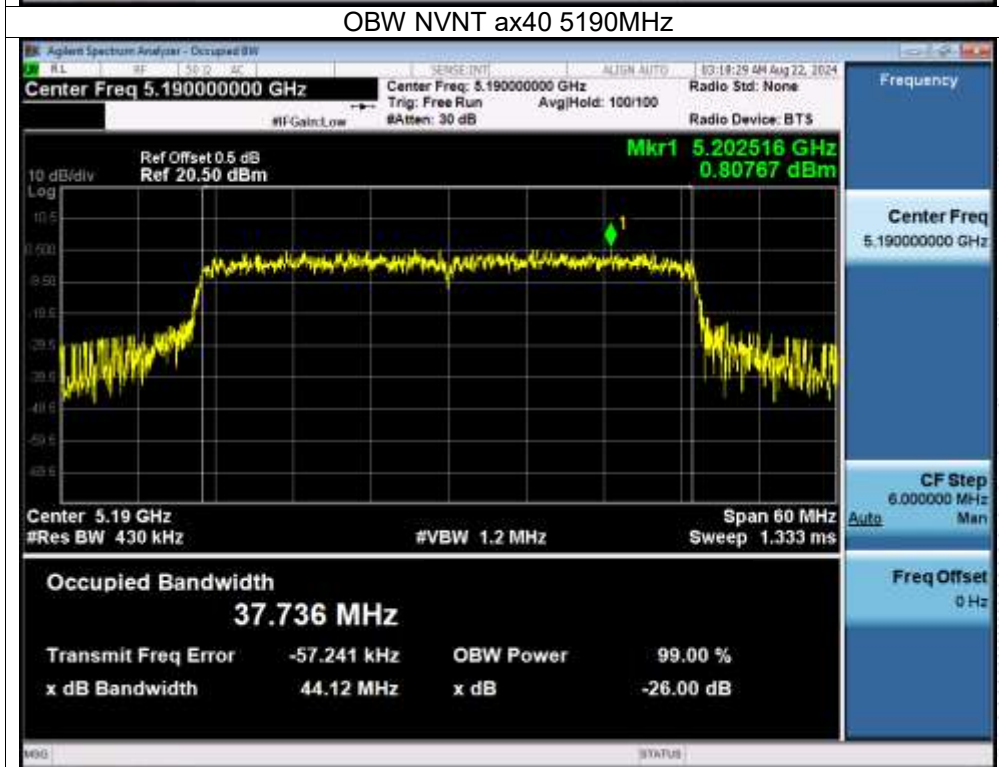
OBW NVNT ax20 5200MHz



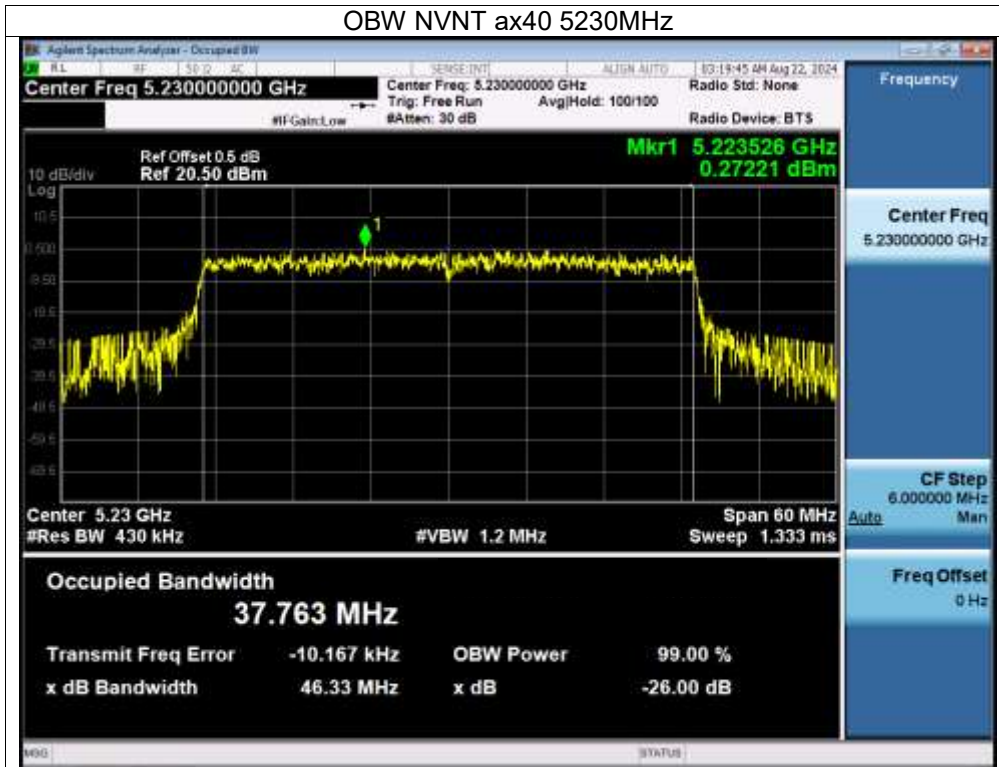
OBW NVNT ax20 5240MHz



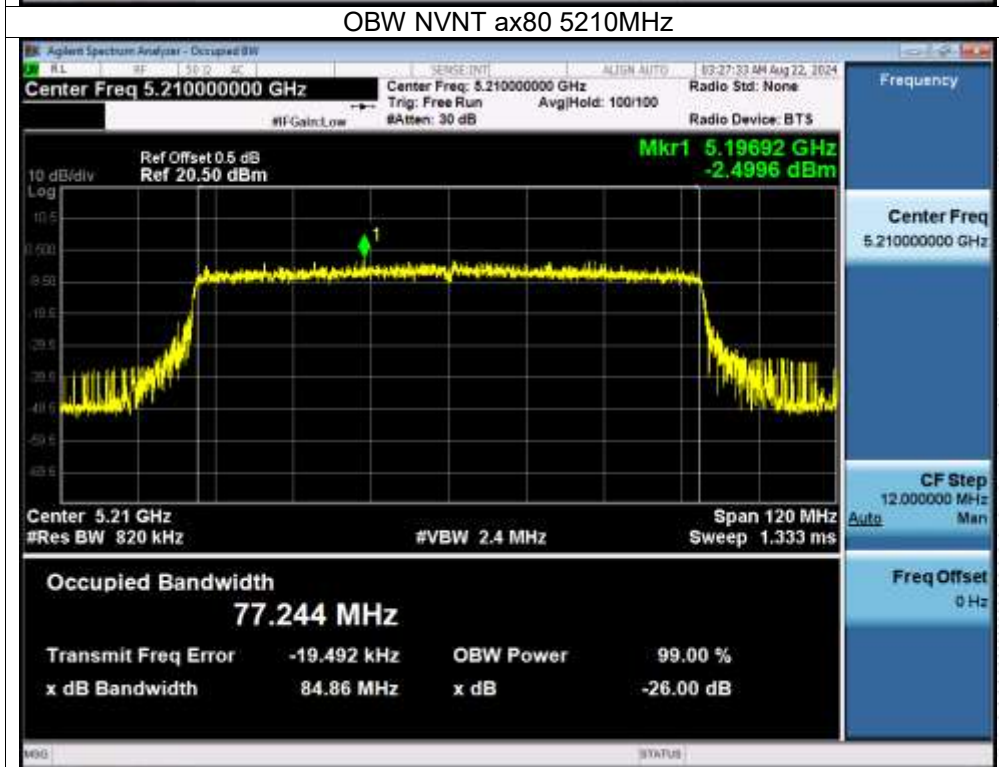
OBW NVNT ax40 5190MHz



OBW NVNT ax40 5230MHz



OBW NVNT ax80 5210MHz

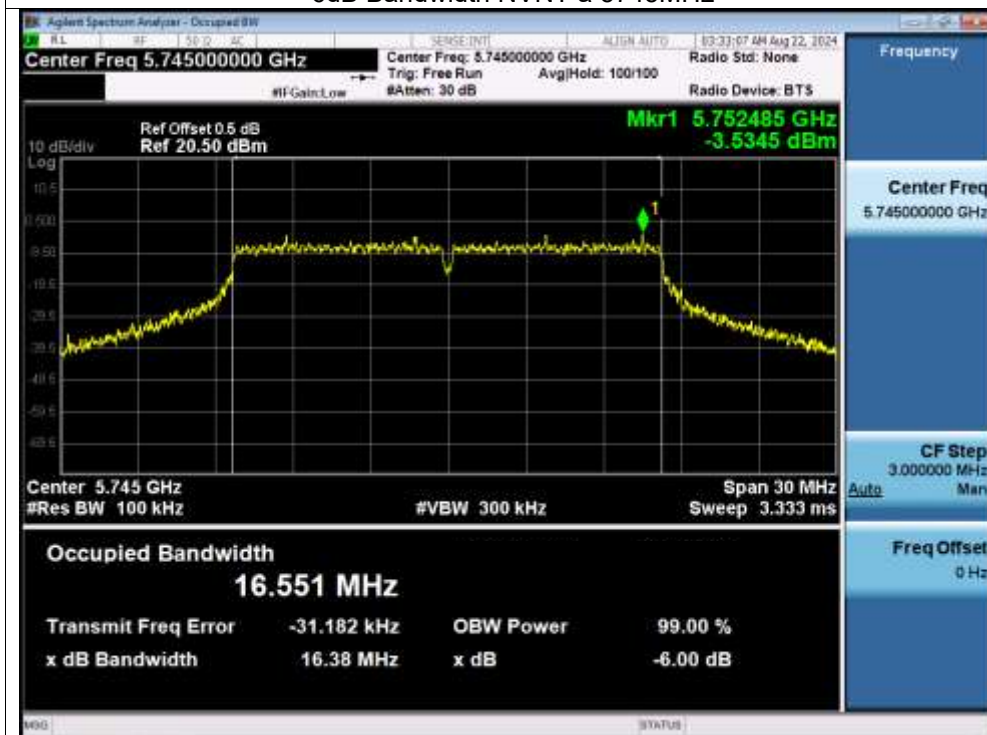


Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5745-5825MHz)		

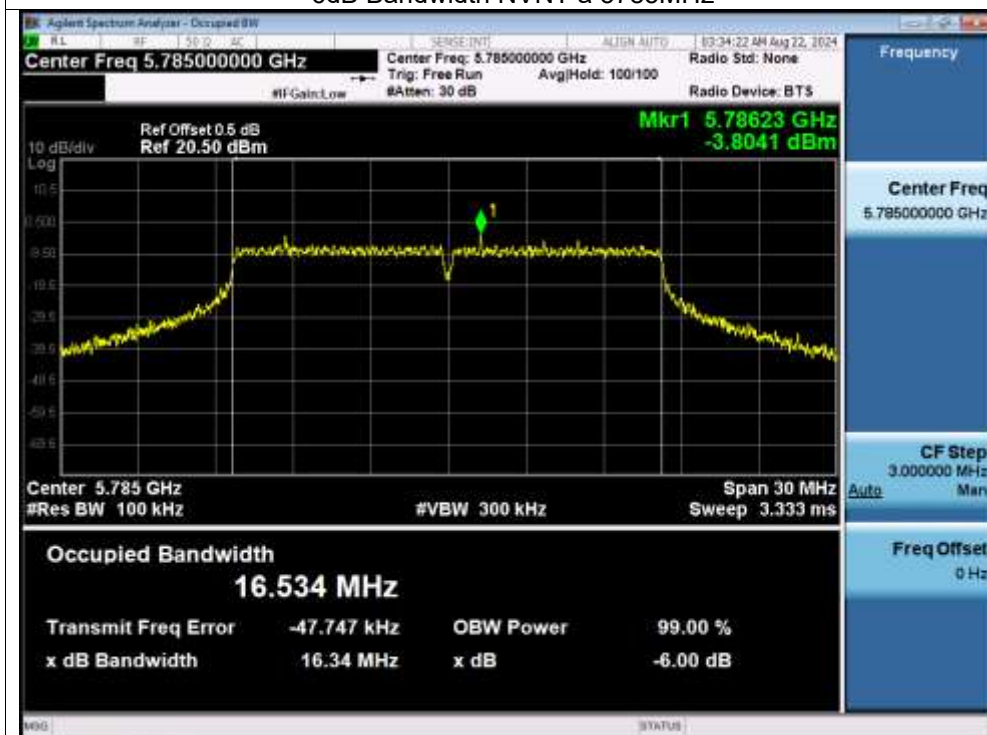
Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-6dB bandwidth (MHz)	Limit -6dB bandwidth (MHz)	Result
NVNT	a	5745	16.745	16.382	0.5	Pass
NVNT	a	5785	16.724	16.344	0.5	Pass
NVNT	a	5825	16.746	16.404	0.5	Pass
NVNT	n20	5745	17.946	17.614	0.5	Pass
NVNT	n20	5785	17.922	17.597	0.5	Pass
NVNT	n20	5825	17.936	17.609	0.5	Pass
NVNT	n40	5755	36.55	36.359	0.5	Pass
NVNT	n40	5795	36.541	36.325	0.5	Pass
NVNT	ac20	5745	17.936	17.605	0.5	Pass
NVNT	ac20	5785	17.957	17.614	0.5	Pass
NVNT	ac20	5825	17.928	17.618	0.5	Pass
NVNT	ac40	5755	36.506	36.334	0.5	Pass
NVNT	ac40	5795	36.554	36.3	0.5	Pass
NVNT	ac80	5775	75.862	75.957	0.5	Pass
NVNT	ax20	5745	19.104	18.988	0.5	Pass
NVNT	ax20	5785	19.119	18.843	0.5	Pass
NVNT	ax20	5825	19.18	18.919	0.5	Pass
NVNT	ax40	5755	37.979	37.943	0.5	Pass
NVNT	ax40	5795	37.999	37.984	0.5	Pass
NVNT	ax80	5775	77.435	77.054	0.5	Pass

Test Graphs

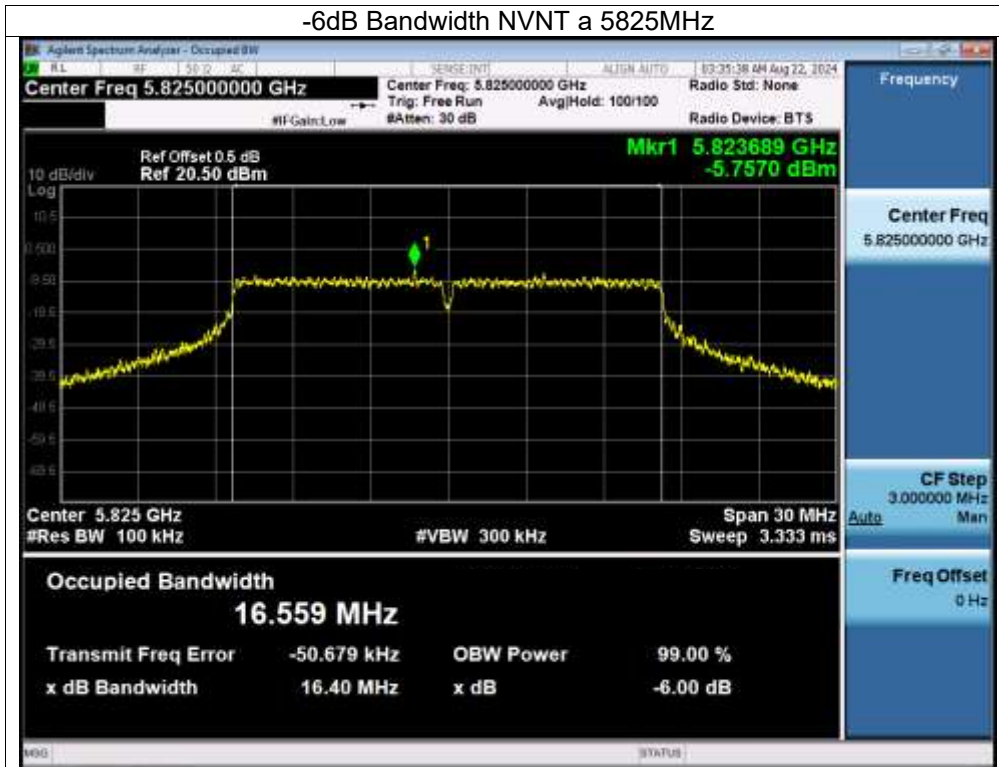
-6dB Bandwidth NVNT a 5745MHz



-6dB Bandwidth NVNT a 5785MHz



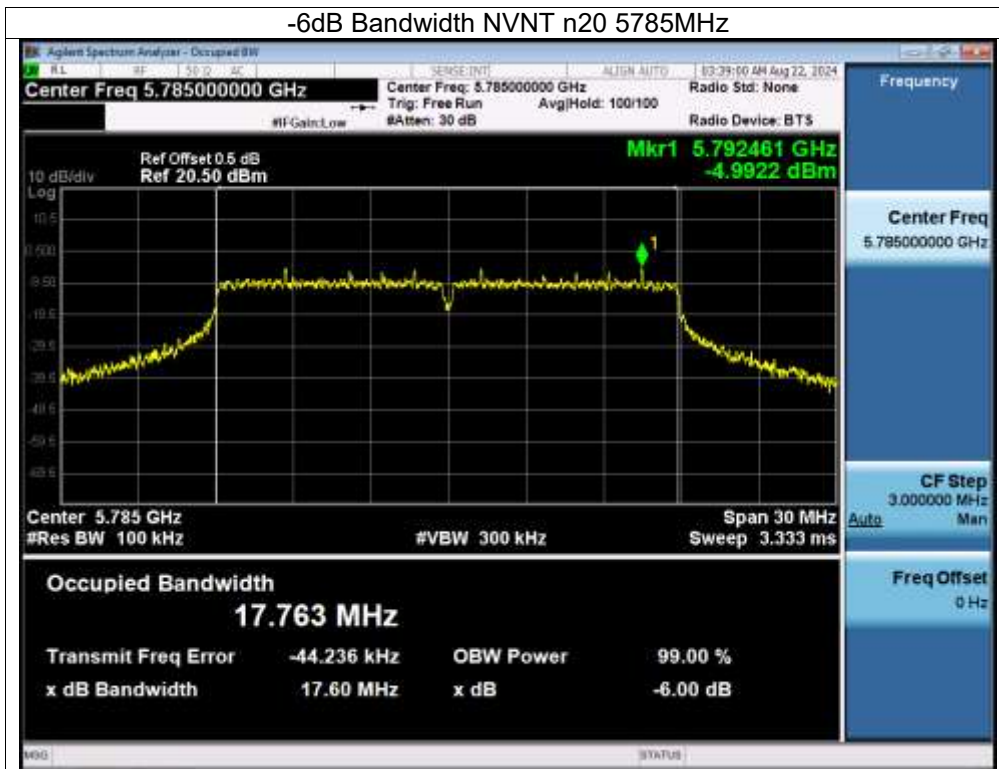
-6dB Bandwidth NVNT a 5825MHz



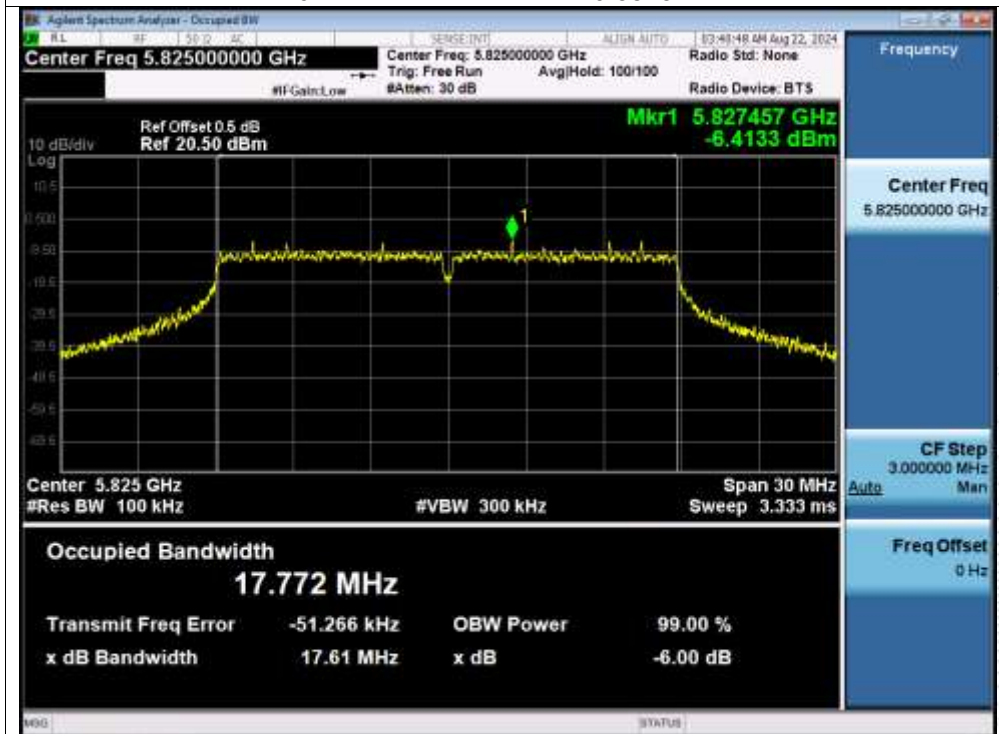
-6dB Bandwidth NVNT n20 5745MHz



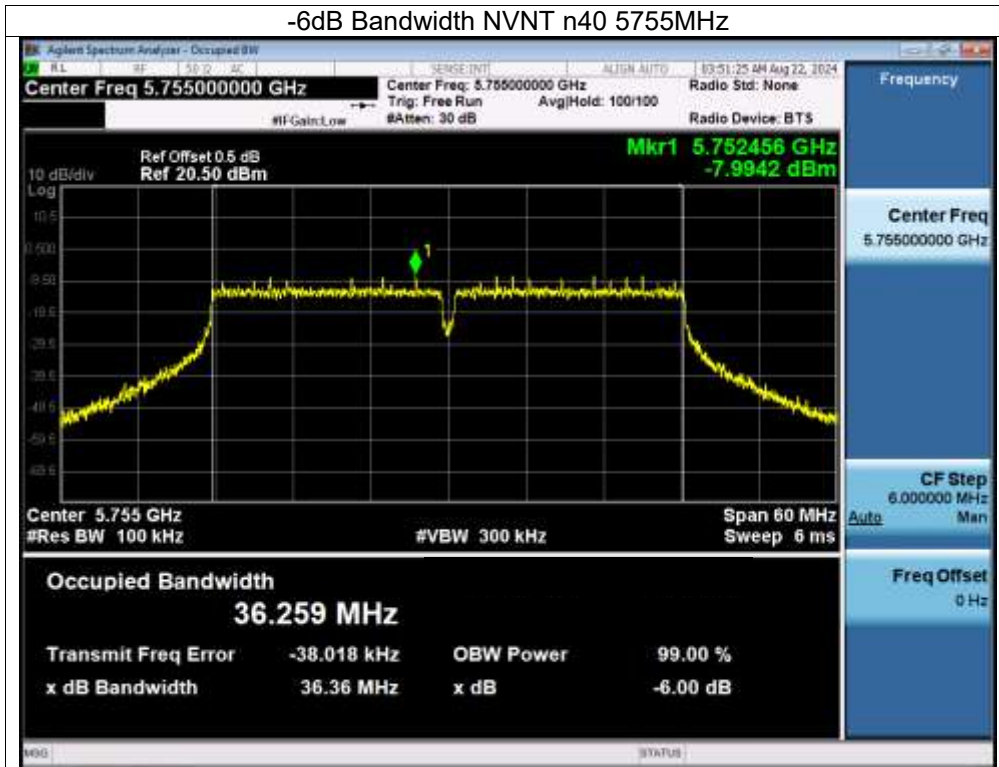
-6dB Bandwidth NVNT n20 5785MHz



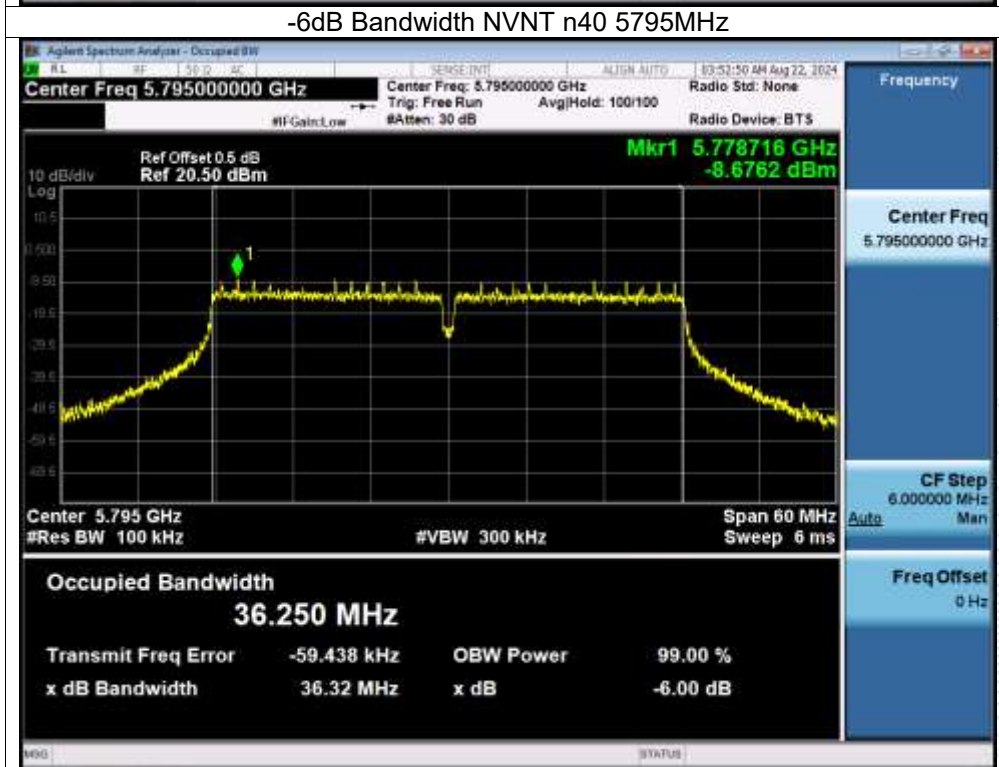
-6dB Bandwidth NVNT n20 5825MHz



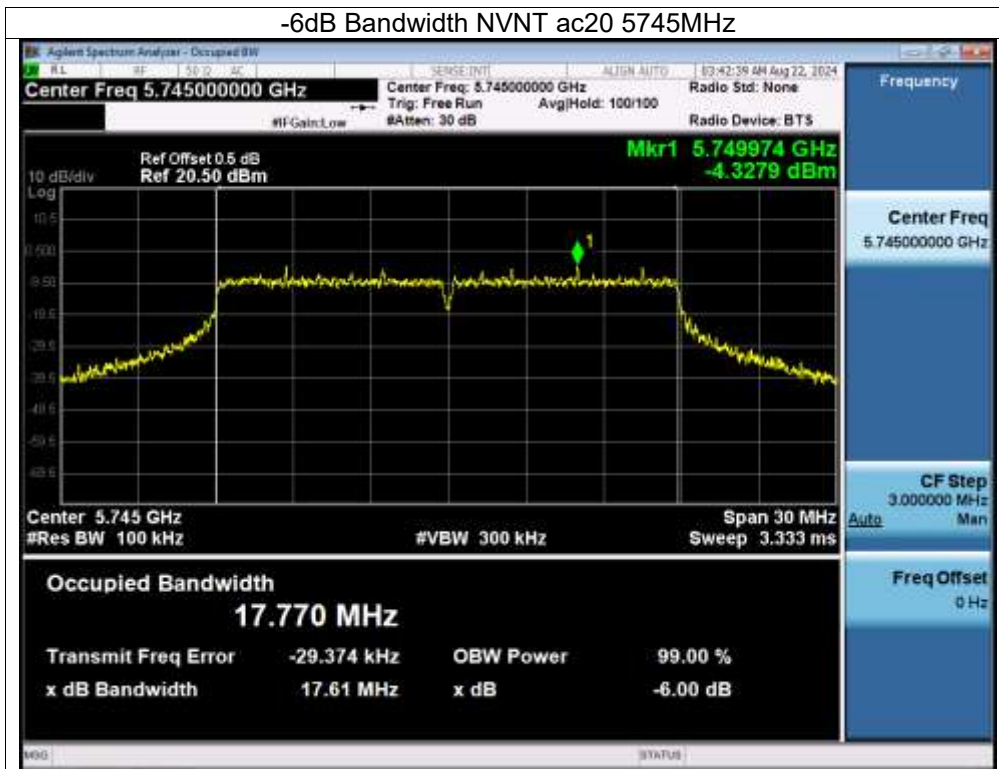
-6dB Bandwidth NVNT n40 5755MHz



-6dB Bandwidth NVNT n40 5795MHz



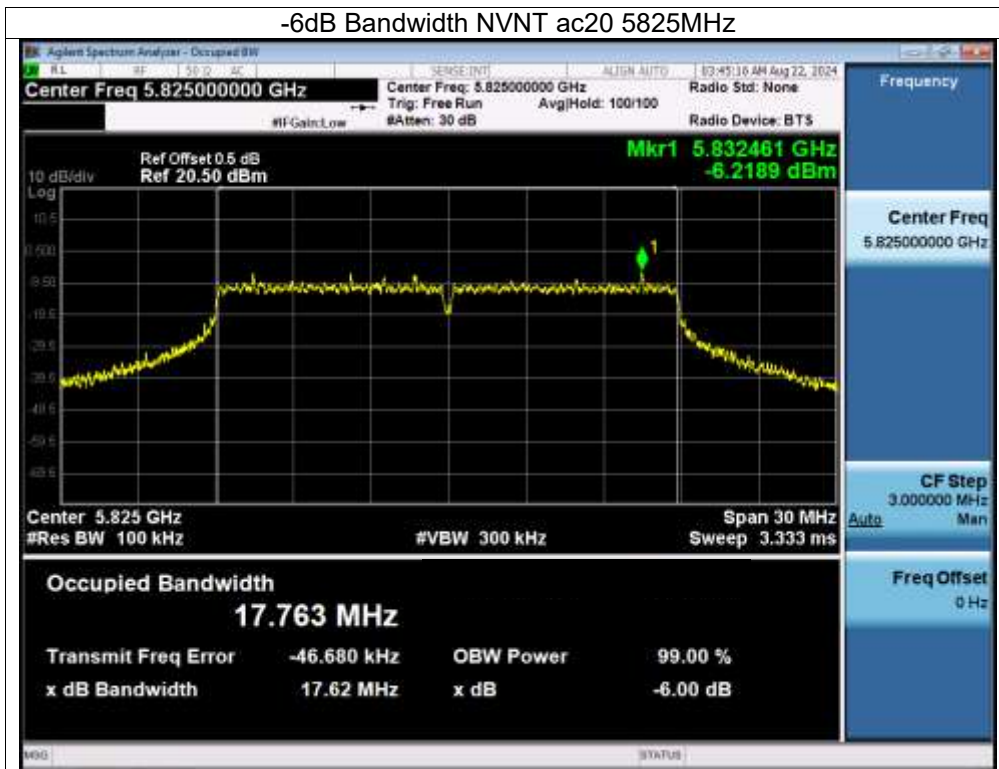
-6dB Bandwidth NVNT ac20 5745MHz



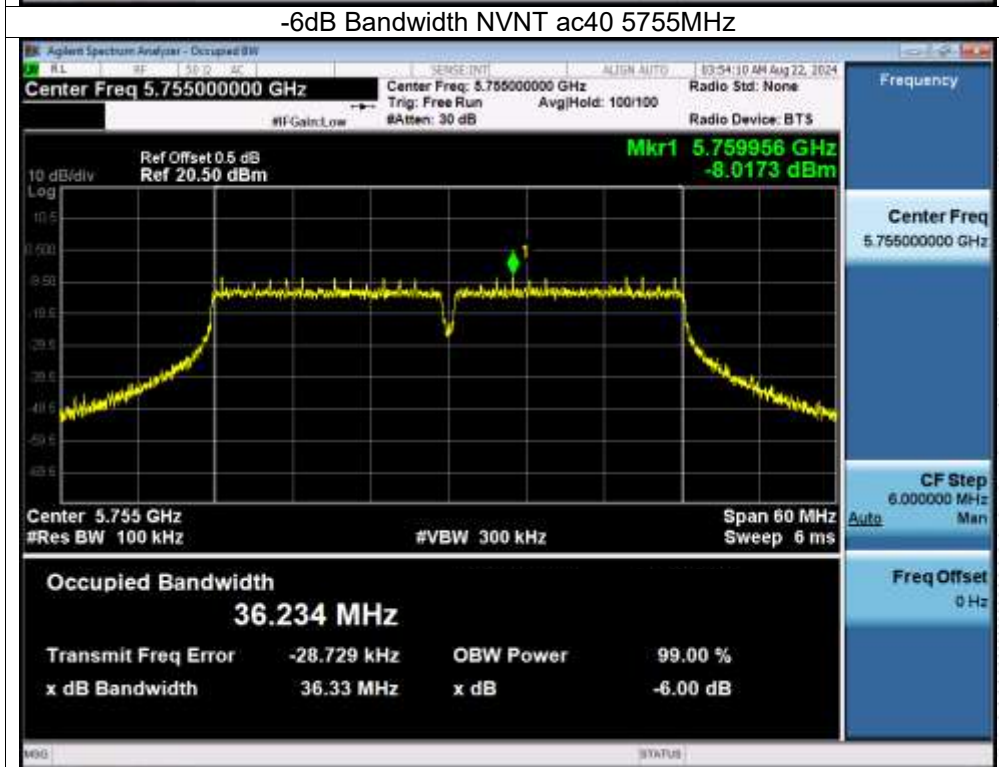
-6dB Bandwidth NVNT ac20 5785MHz



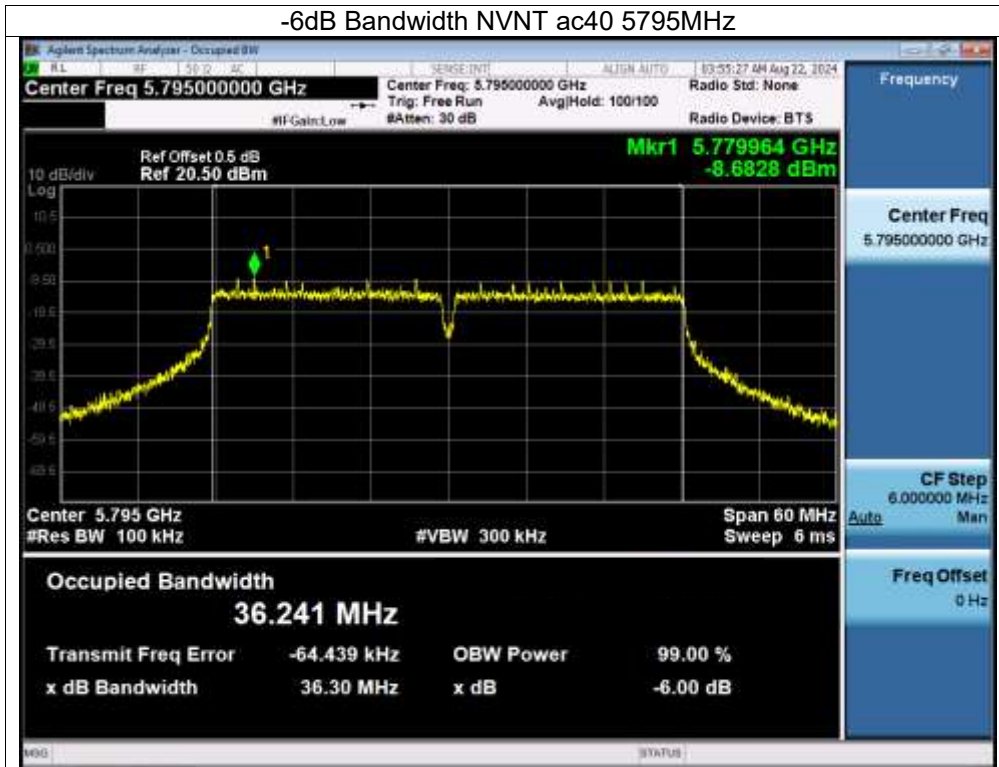
-6dB Bandwidth NVNT ac20 5825MHz



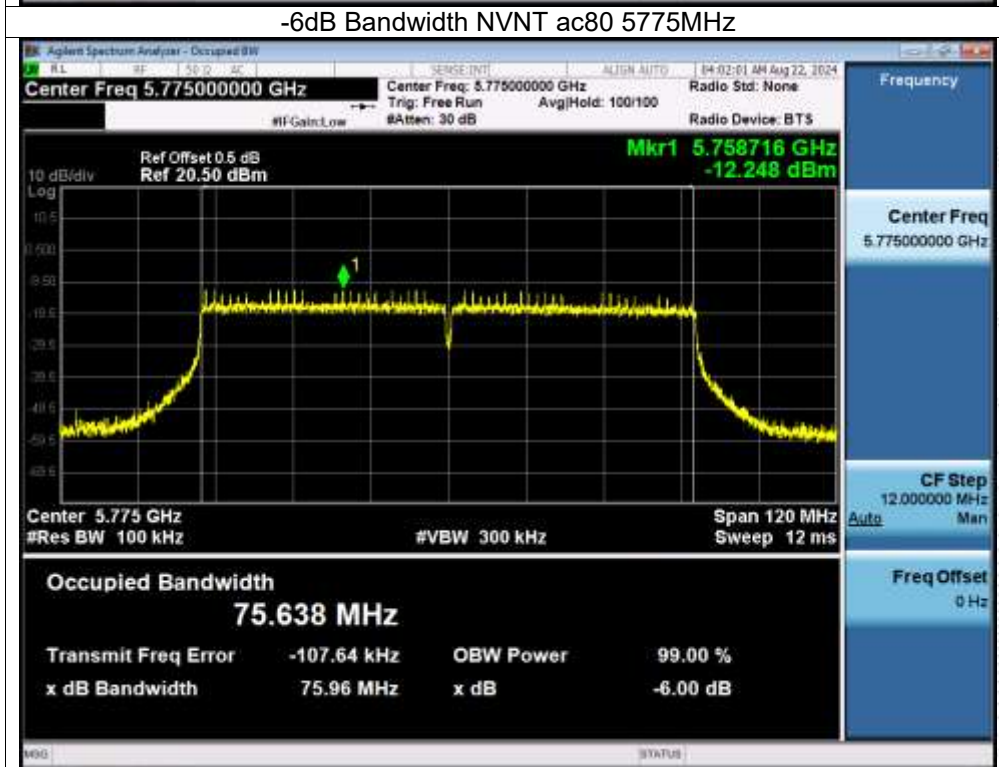
-6dB Bandwidth NVNT ac40 5755MHz



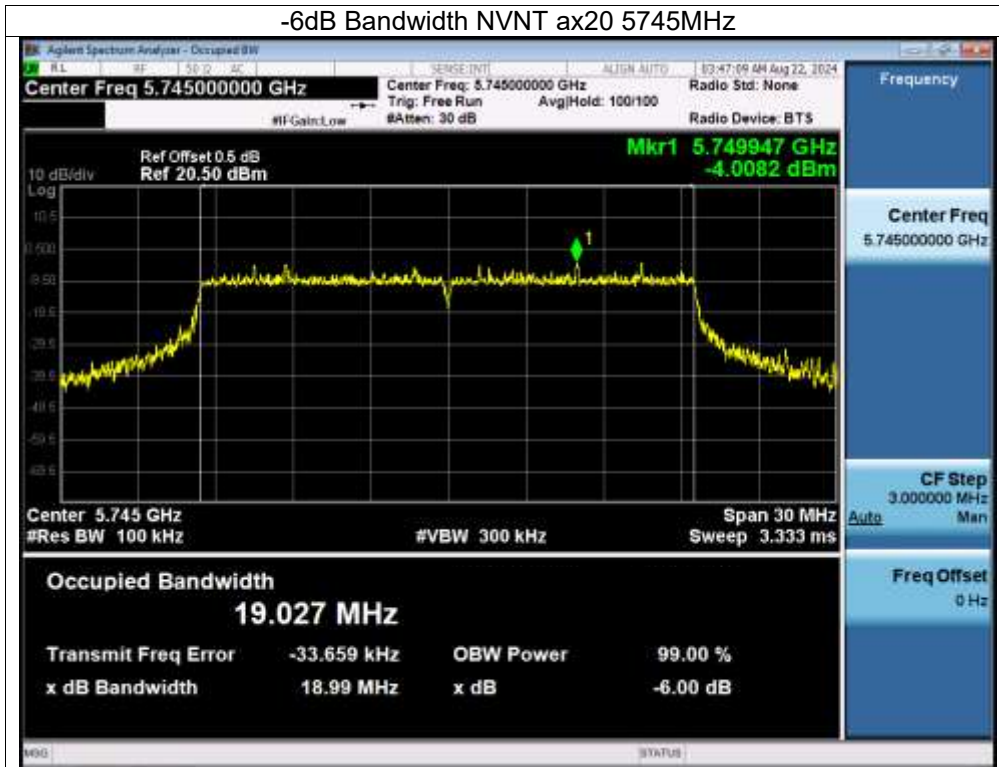
-6dB Bandwidth NVNT ac40 5795MHz



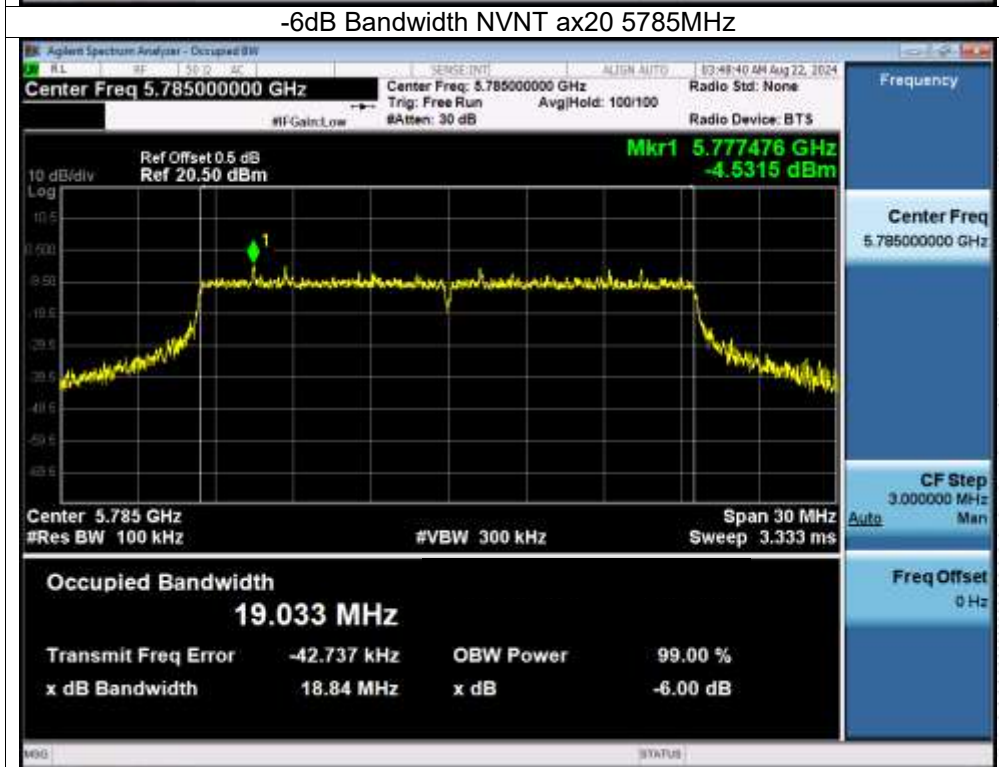
-6dB Bandwidth NVNT ac80 5775MHz



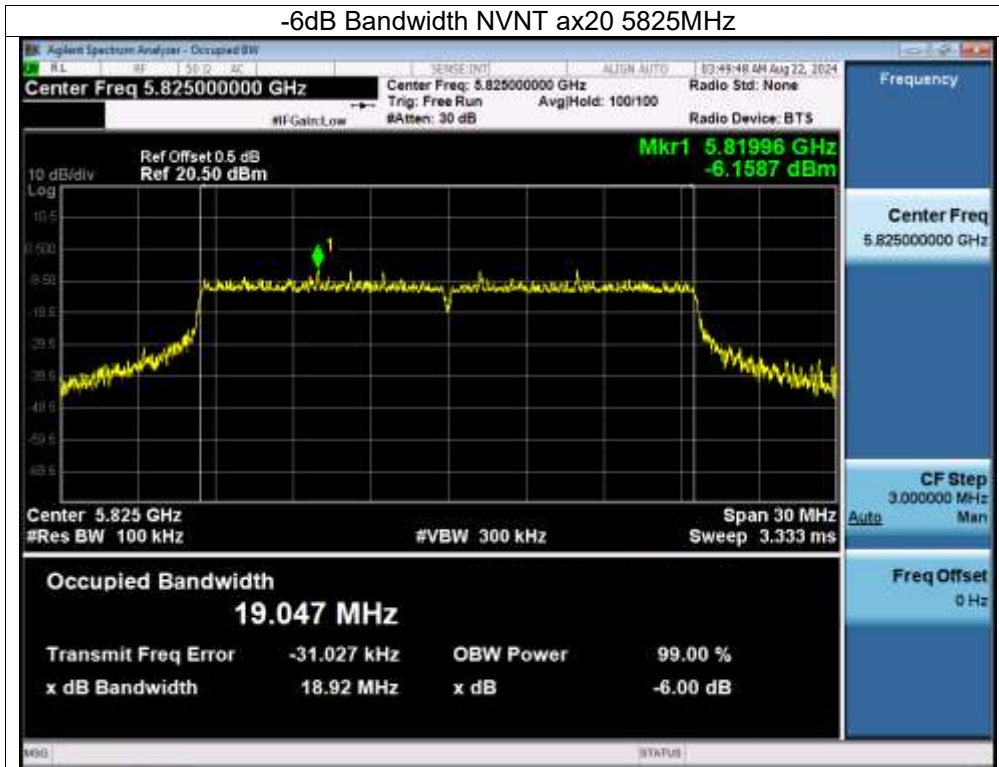
-6dB Bandwidth NVNT ax20 5745MHz



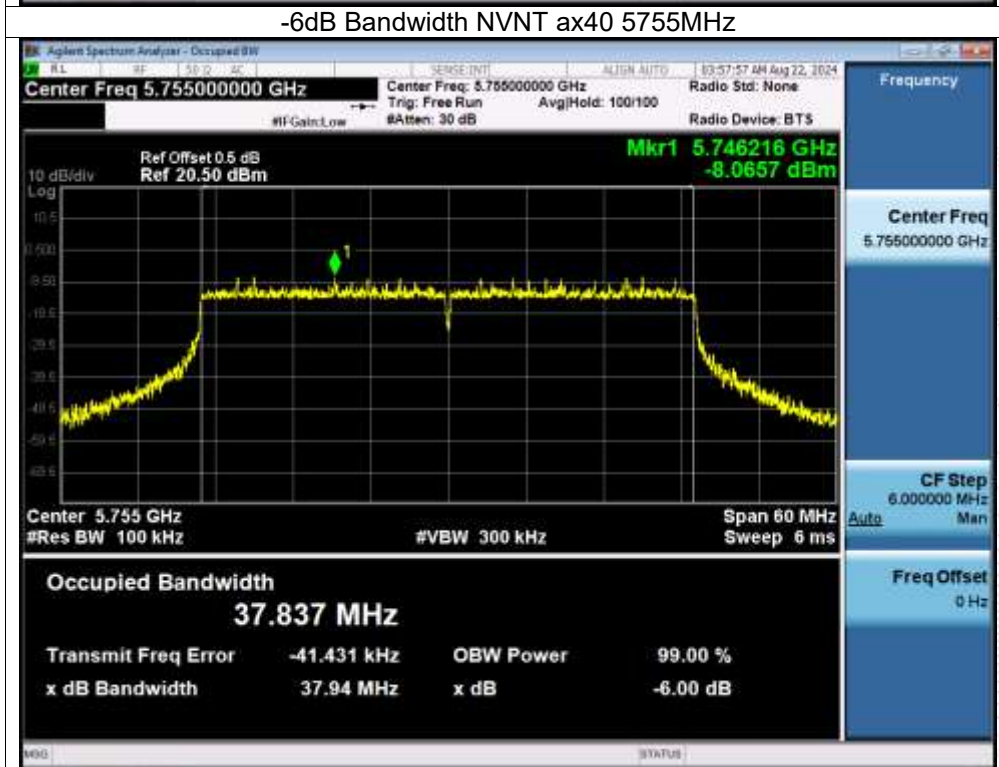
-6dB Bandwidth NVNT ax20 5785MHz



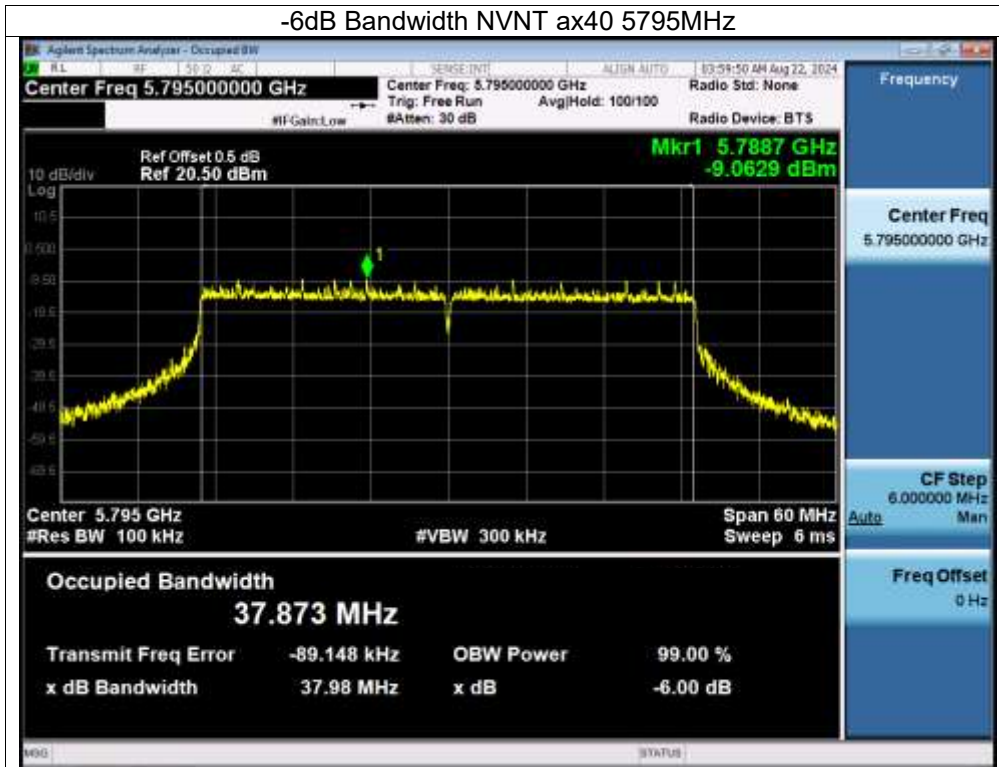
-6dB Bandwidth NVNT ax20 5825MHz



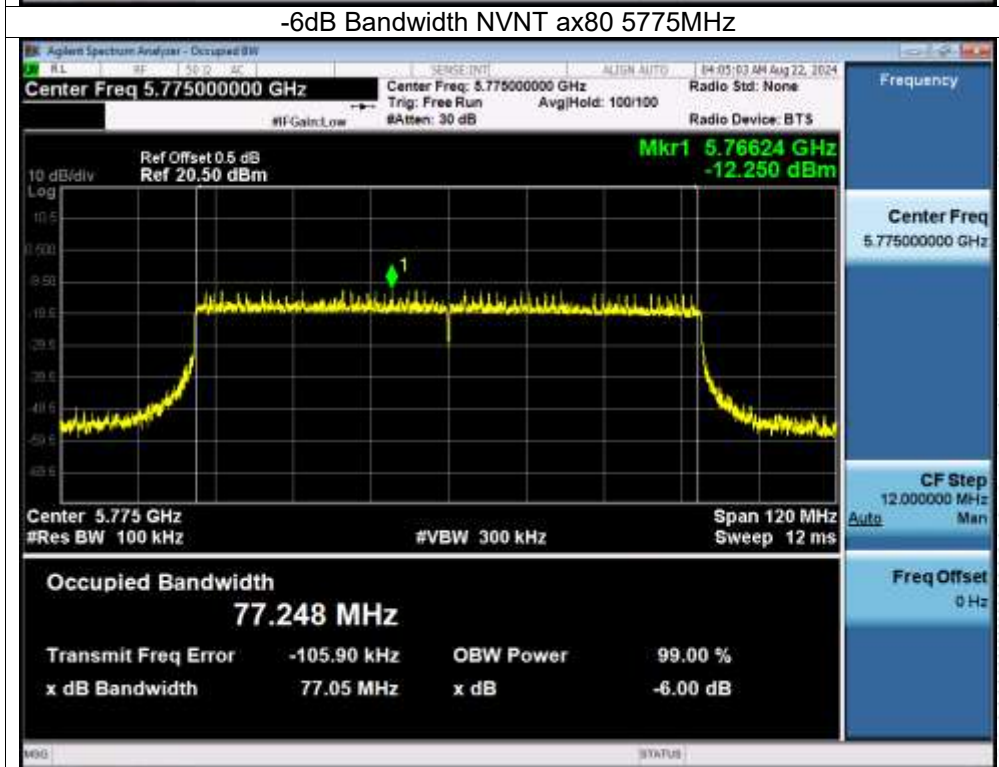
-6dB Bandwidth NVNT ax40 5755MHz



-6dB Bandwidth NVNT ax40 5795MHz



-6dB Bandwidth NVNT ax80 5775MHz

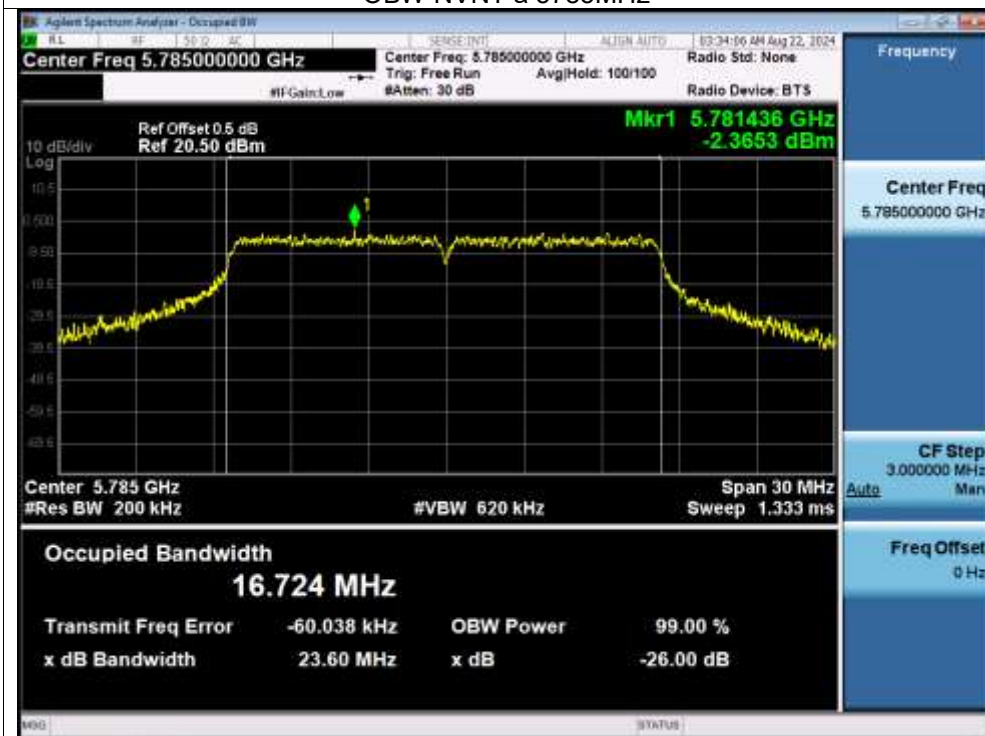


Test Graphs

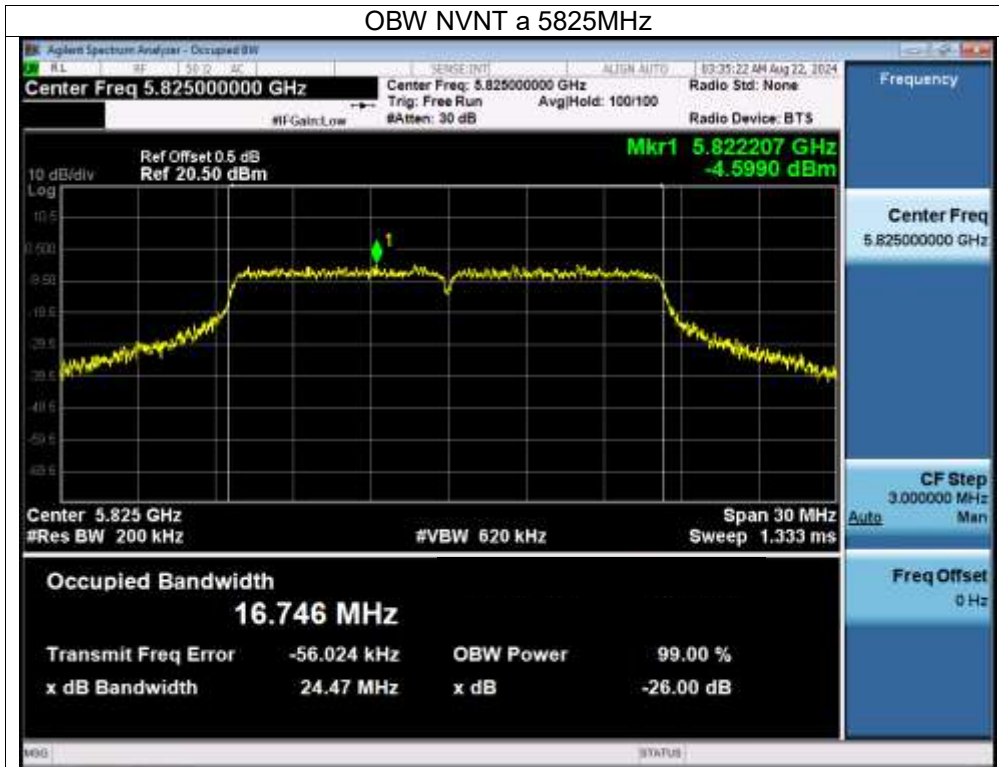
OBW NVNT a 5745MHz



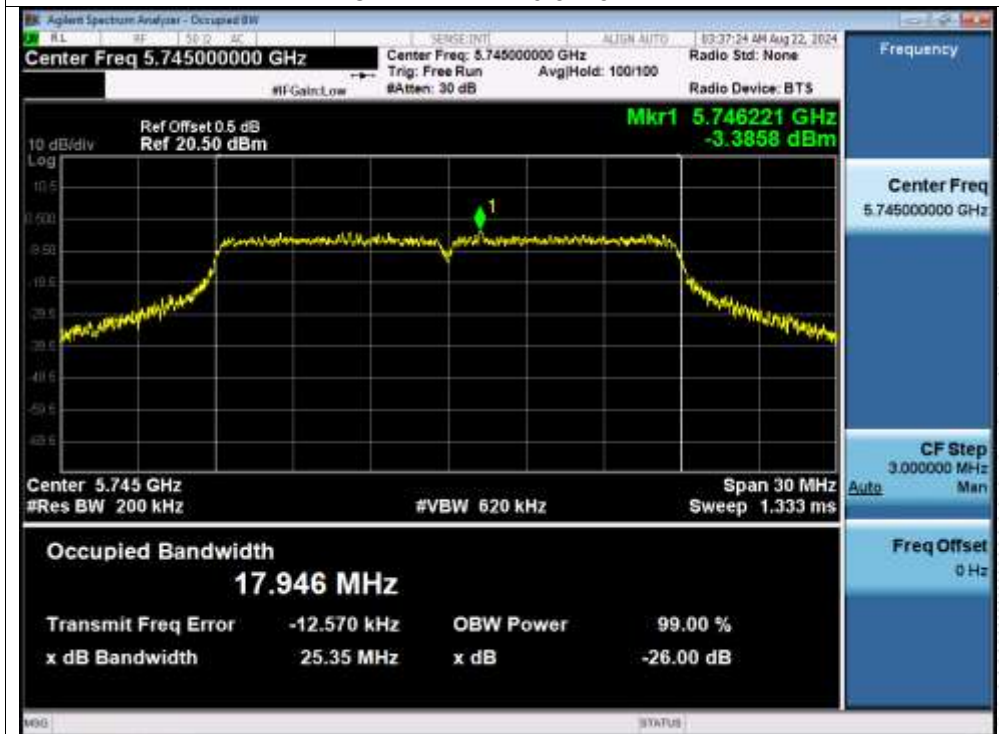
OBW NVNT a 5785MHz



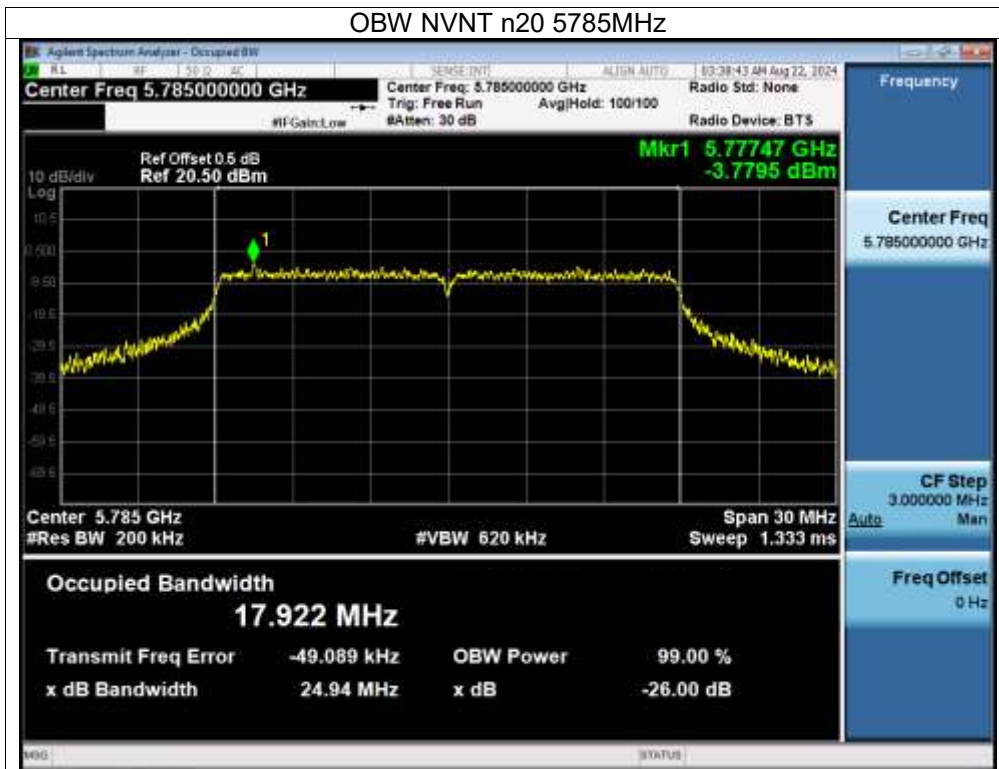
OBW NVNT a 5825MHz



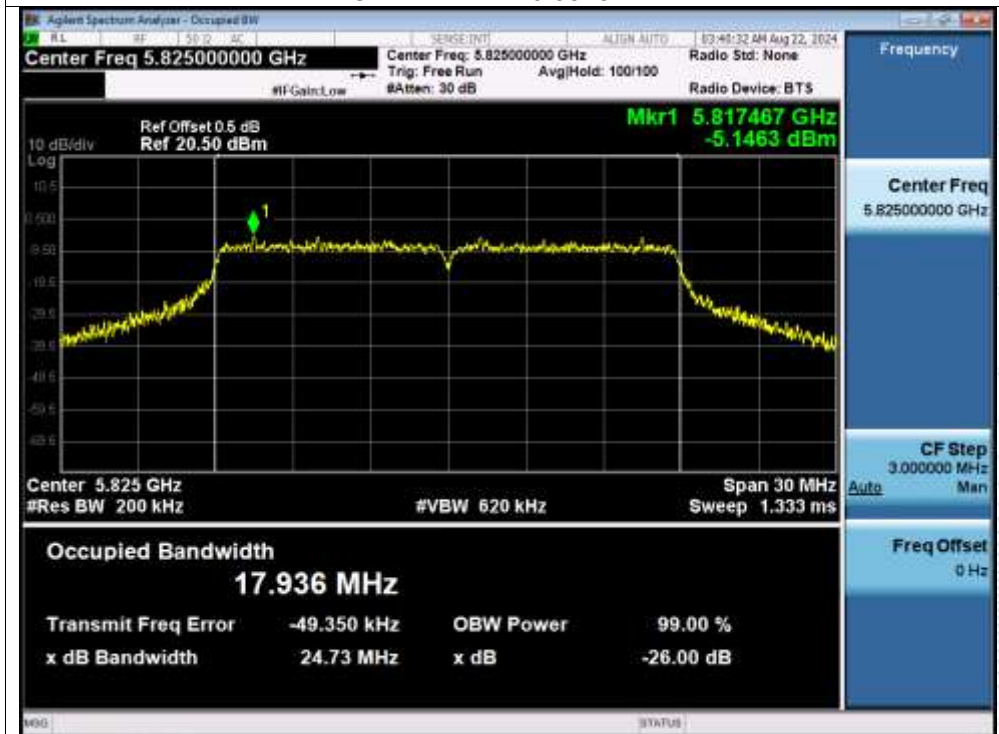
OBW NVNT n20 5745MHz



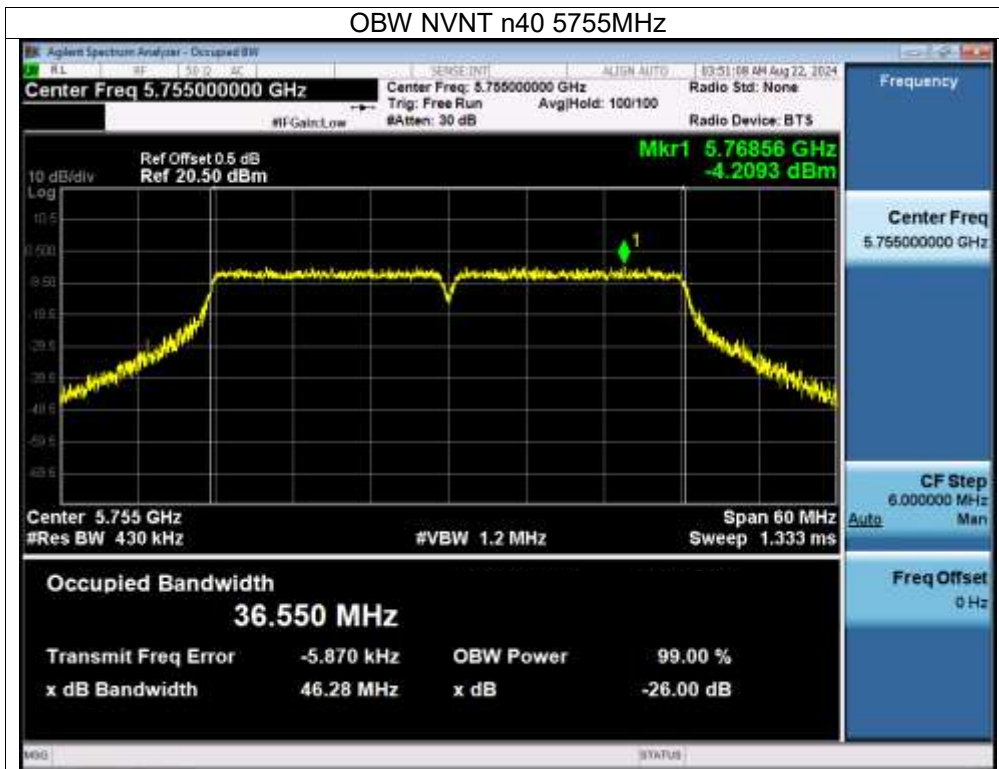
OBW NVNT n20 5785MHz



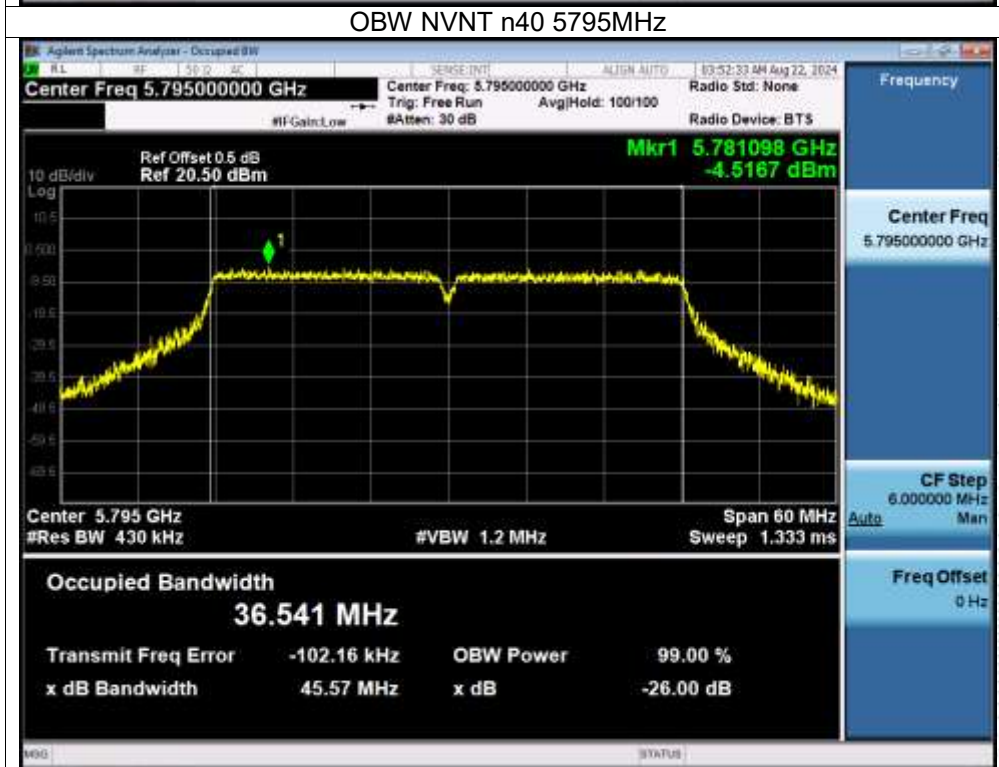
OBW NVNT n20 5825MHz



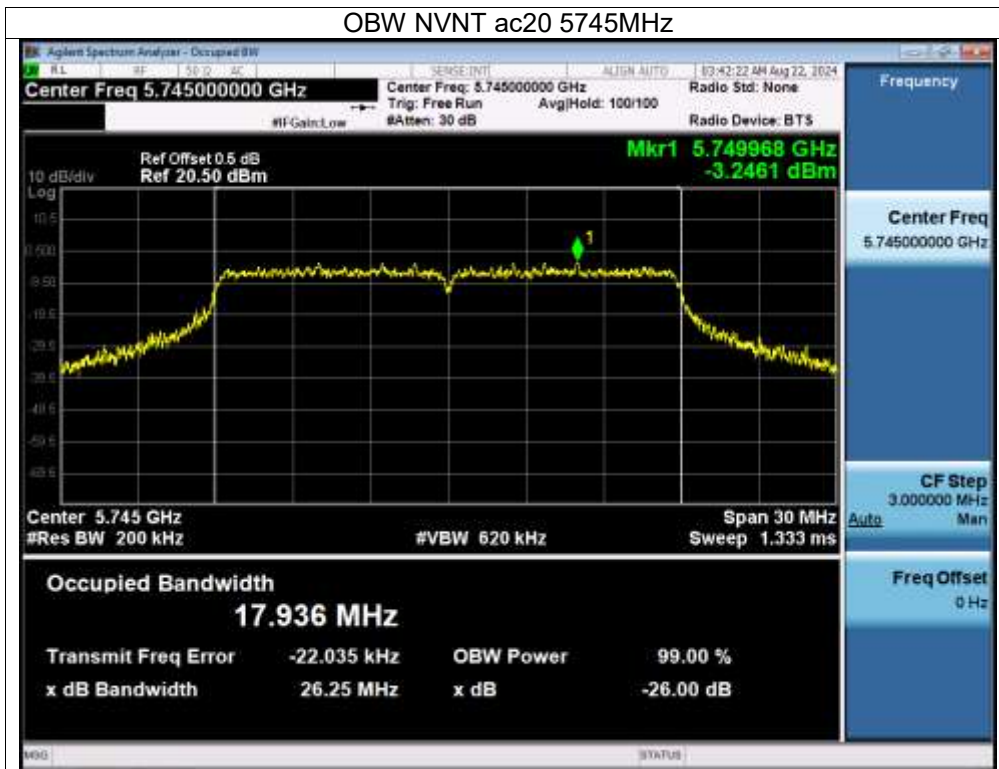
OBW NVNT n40 5755MHz



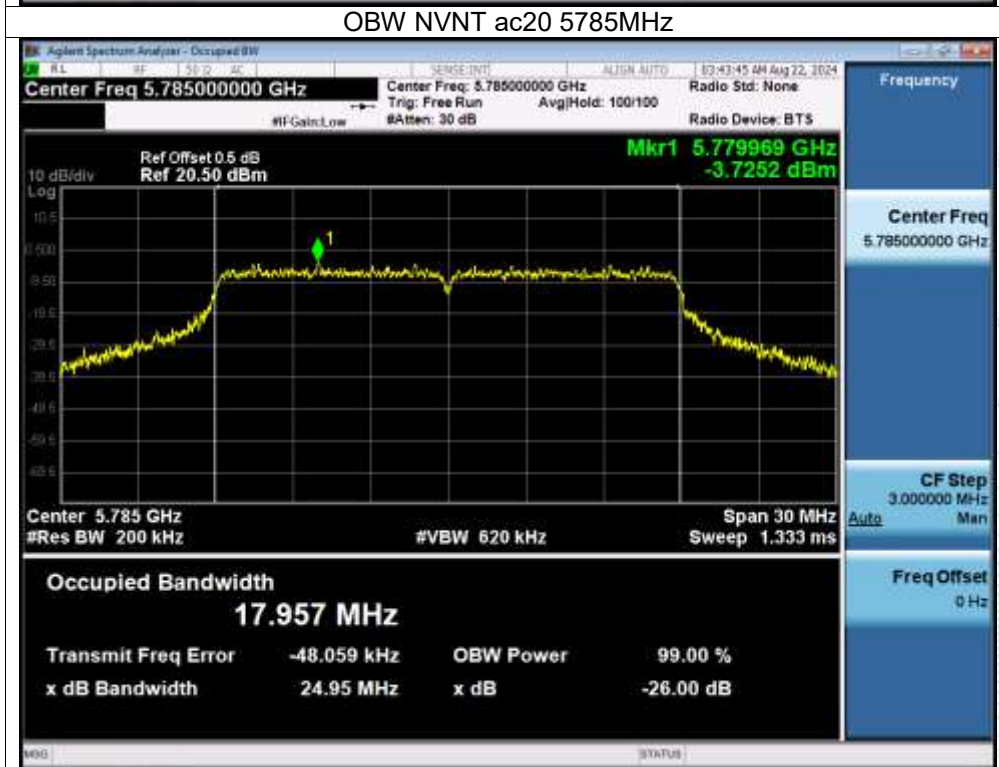
OBW NVNT n40 5795MHz



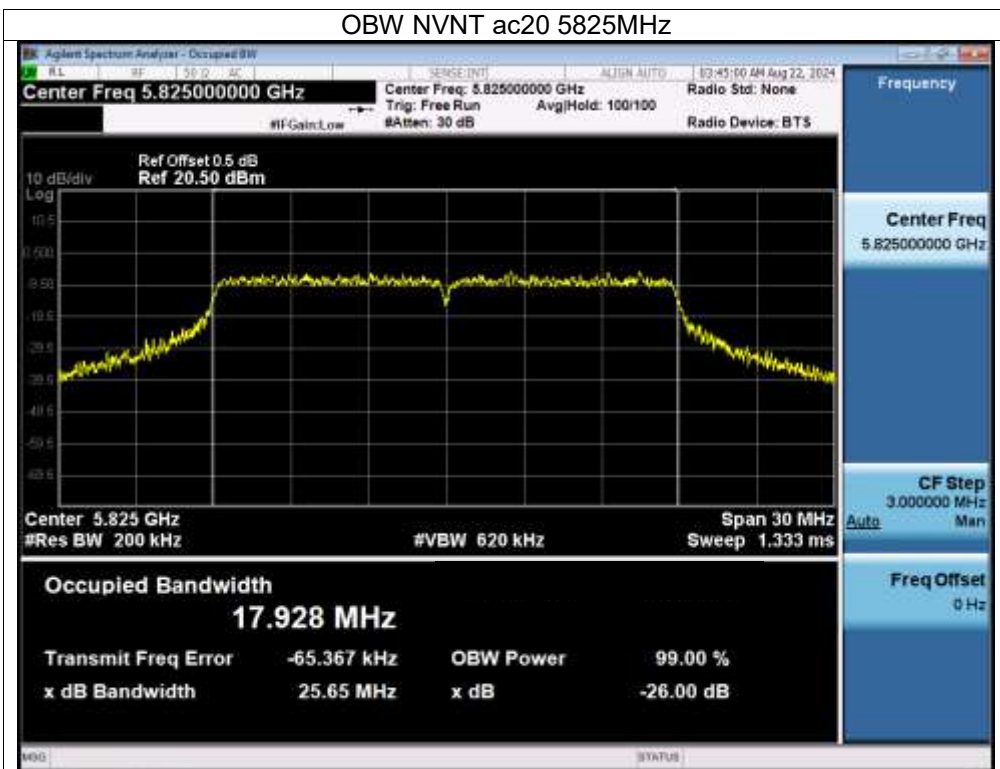
OBW NVNT ac20 5745MHz



OBW NVNT ac20 5785MHz



OBW NVNT ac20 5825MHz



OBW NVNT ac40 5755MHz

