

TEST REPORT

Report No.: BCTC2412799671-2E

Applicant: NEXXT SOLUTIONS

Product Name: ROUTER

Test Model: NCM-X3000

Tested Date: 2024-12-26 to 2025-01-06

Issued Date: 2025-01-07

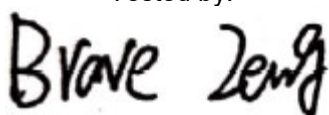
Shenzhen BCTC Testing Co., Ltd.



FCC ID: X4YHAX3000

Product Name: ROUTER
Trademark: N/A
Model/Type reference: NCM-X3000
Prepared For: NEXXT SOLUTIONS
Address: 3505 N.W 107TH AVE. MIAMI, Florida 33178, United States
Manufacturer: Sungale Electronics (Shenzhen) Limited
Address: No. 1302, DaHong High-Tech Park, No. 6-18, Xinhe Road, Xinqiao, BaoAn, Shenzhen 518125, CHINA
Prepared By: Shenzhen BCTC Testing Co., Ltd.
Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date: 2024-12-26
Sample tested Date: 2024-12-26 to 2025-01-06
Issue Date: 2025-01-07
Report No.: BCTC2412799671-2E
FCC Part15 15.407
ANSI C63.10-2013
Test Standards: KDB 662911 D01 v02r01
KDB 789033 D02 v02r01
Test Results: PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

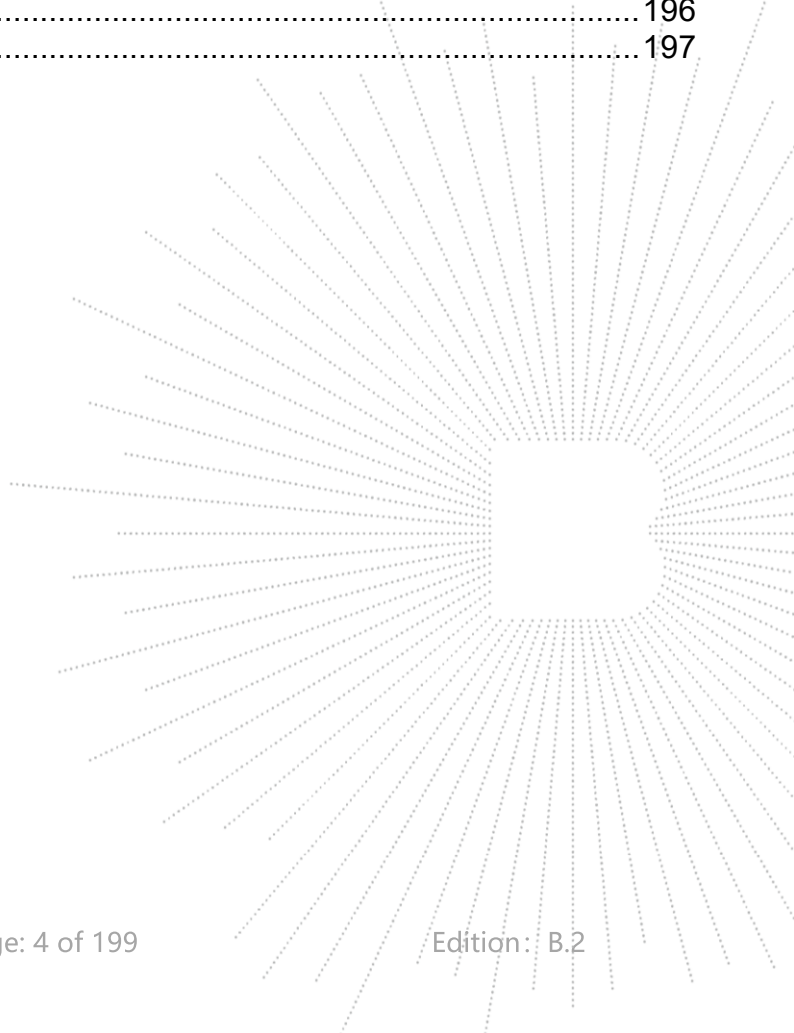
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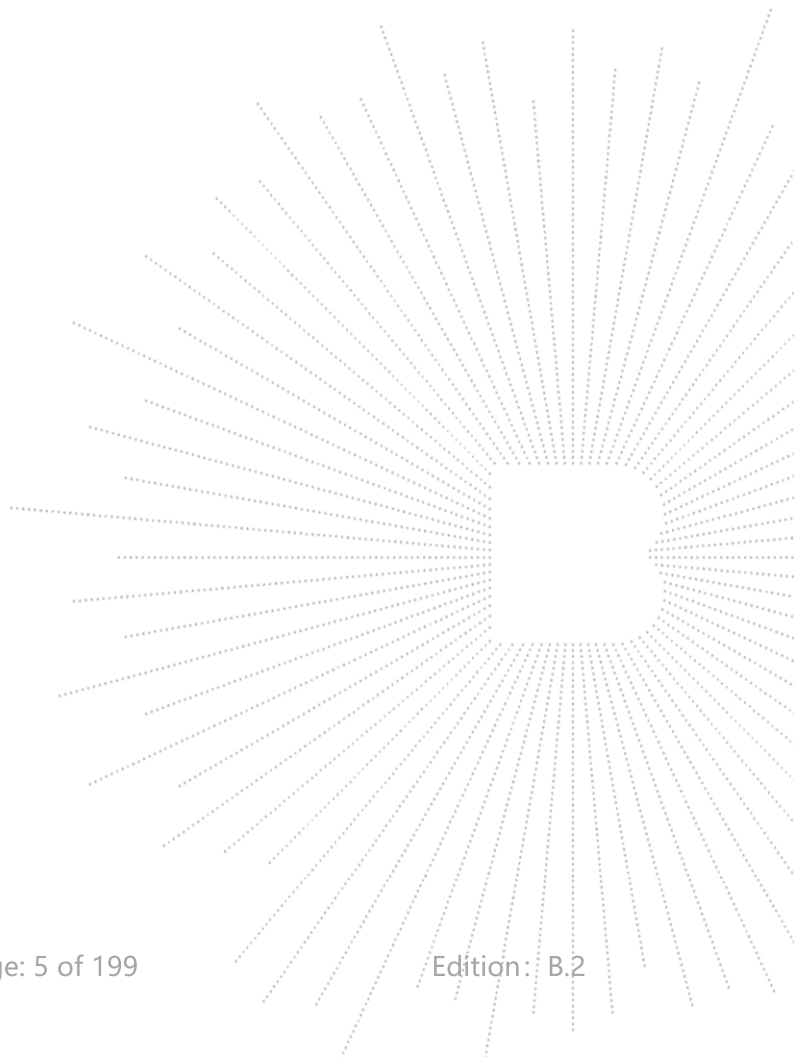
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(Note: N/A Means Not Applicable)



1. Version

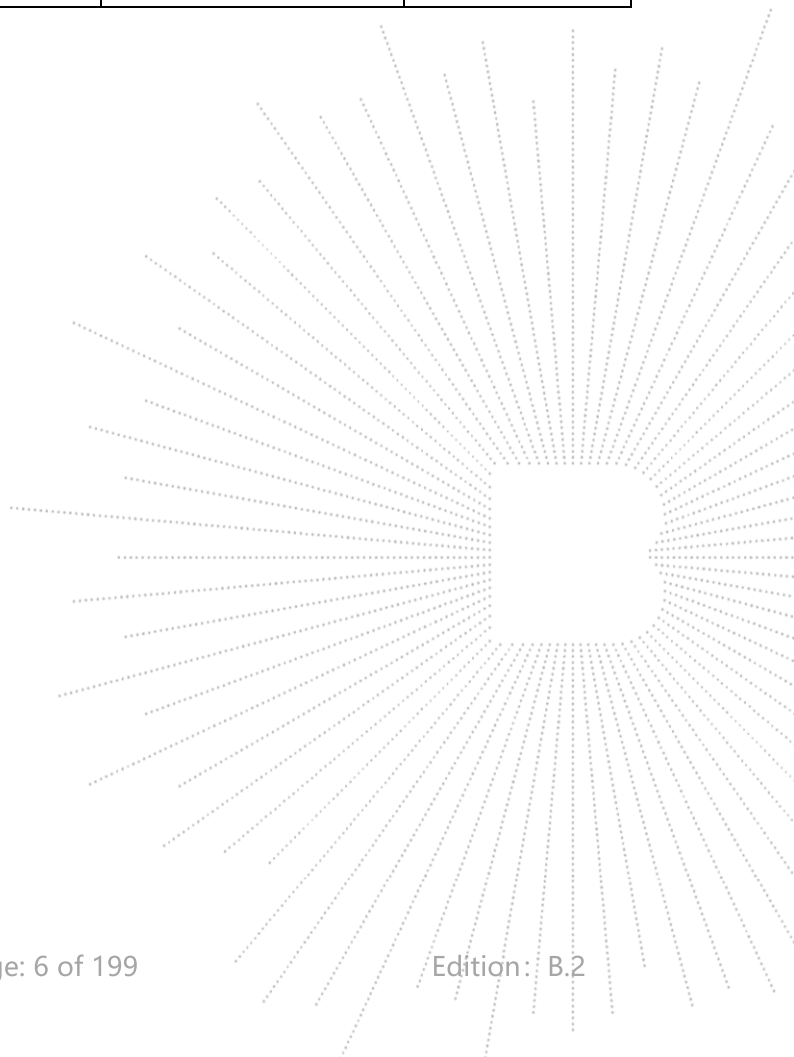
Report No.	Issue Date	Description	Approved
BCTC2412799671-2E	2025-01-07	Original	Valid



2. Test Summary

The Product has been tested according to the following specifications:

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



3. Measurement Uncertainty

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

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

4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	NCM-X3000
Model differences:	N/A
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) 5180-5240MHz for 802.11a/n(HT20)/ac(HT20)/ax(HT20); 5190-5230MHz for 802.11n(HT40)/ac(HT40)/ax(HT40); 5210MHz for 802.11 ac(HT80)/ax(HT80); 5745-5825 MHz for 802.11a/n(HT20)/ac(HT20)/ax(HT20); 5755-5795 MHz for 802.11n(HT40)/ac(HT40)/ax(HT40); 5775MHz for 802.11 ac(HT80)/ax(HT80);
Operation Frequency:	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-MCS9
Data Rate	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac/ax;
Type of Modulation:	Internal antenna
Number Of Channel	Antenna A: 4.48 dBi, Antenna B: 4.46 dBi, Antenna C: 4.25 dBi
Antenna installation:	Remark:
Antenna Gain:	☒ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☐ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Ratings:	DC 12V from adapter
Adapter Information:	MODEL O.: MAUS-1201001202 INPUT: 100-240V~50/60Hz 0.35A OUTPUT: DC 12.0V 1.0A

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
E-1	ROUTER	N/A	NCM-X3000	N/A	EUT
E-2	ADAPTER	/	MAUS-1201001202	---	Auxiliary
E-3	PC	Lenovo	N22Q22	---	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	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

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 / n20/ ac 20/ ax 20 CH36/ CH40/ CH 48 802.11a /n20/ ac 20/ ax 20 CH149/ CH157/ CH 165
Mode 2	802.11n40/ ac40/ ax 40 CH38/ CH 46 802.11n40/ ac40/ ax 40 CH 151 / CH 159
Mode 3	802.11 ac80/ ax80 CH 42/CH 155
Mode 4	Link (Conducted emission & Radiated emission)

Note:

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

4.6 Table Of Parameters Of Text Software Setting

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

Test software Version	CMD		
Parameters	DEF	DEF	DEF

4.7 Antenna

5G

1)For power spectral density(PSD) measurements,
Array Gain= $10\log(\text{NANT}/\text{NSS})\text{dB}=10\log(3/1)=4.77\text{dB}$,

So the directional gain for PSD is 9.25 dBi

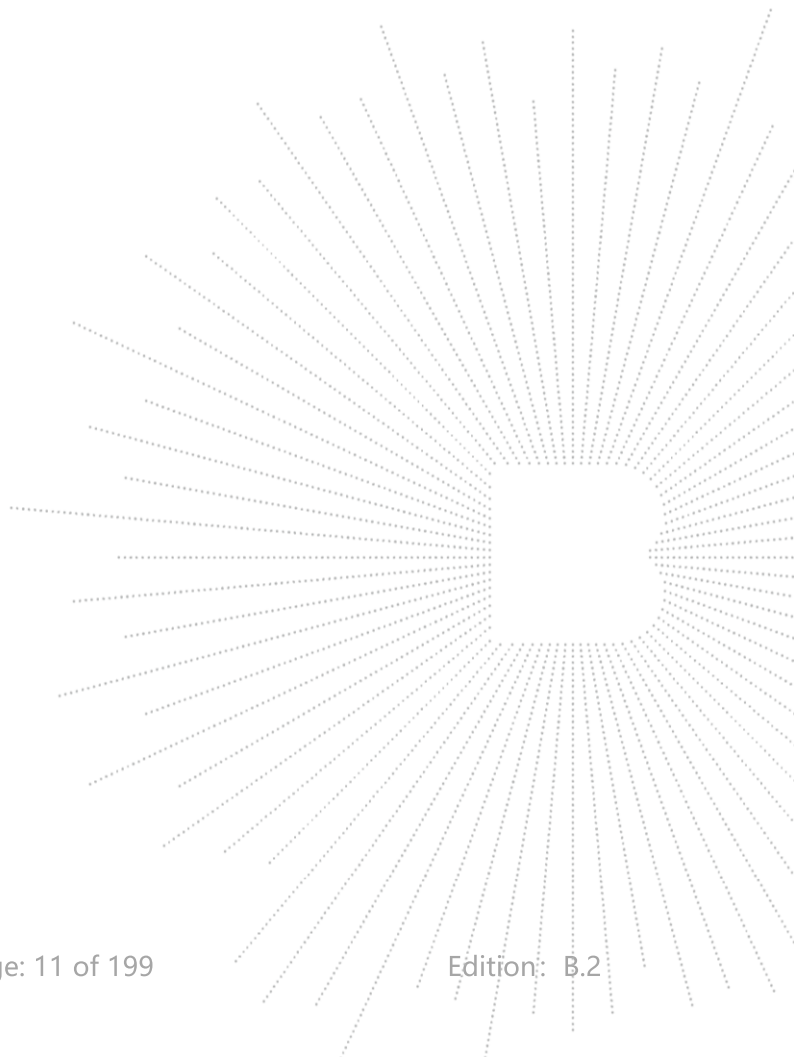
2)For power measurements,

The Array gain=0 dB for $\text{NANT} \leq 4$,

So the directional gain for Power measurements is 4.48 dBi

Antenna	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
A	N/A	N/A	Internal antenna	4.48	N/A
B	N/A	N/A	Internal antenna	4.46	N/A
C	N/A	N/A	Internal antenna	4.25	N/A

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



5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

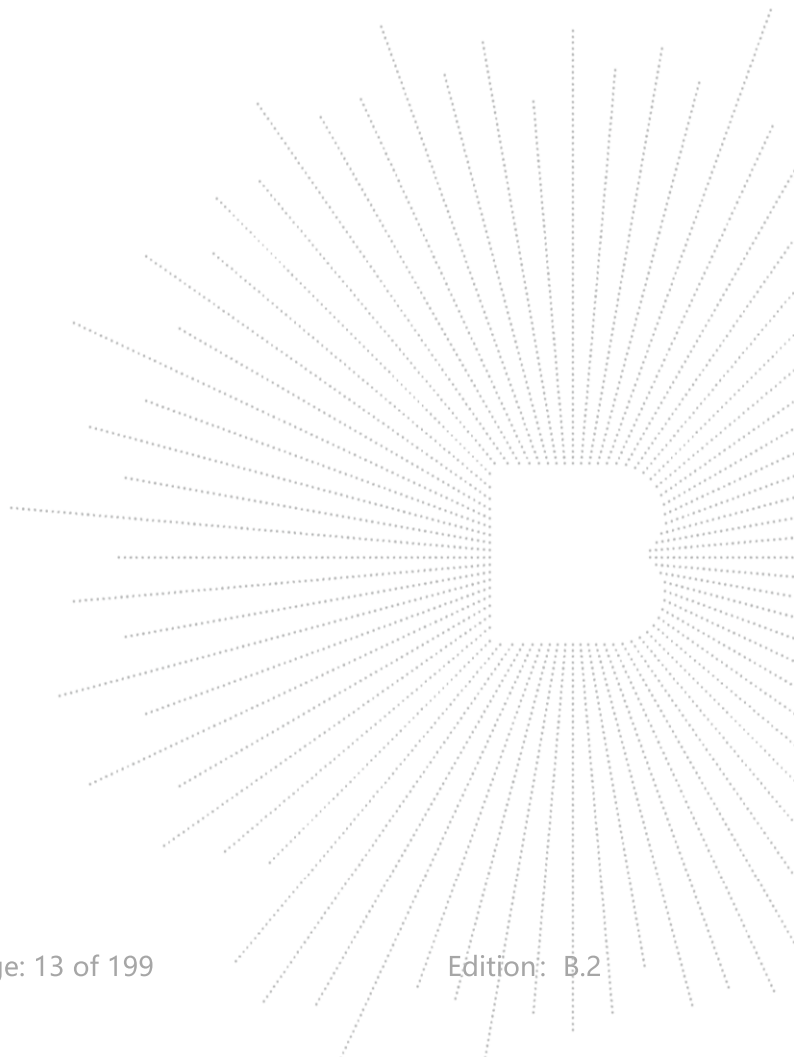
ISED CAB identifier: CN0017

5.2 Test Instrument Used

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

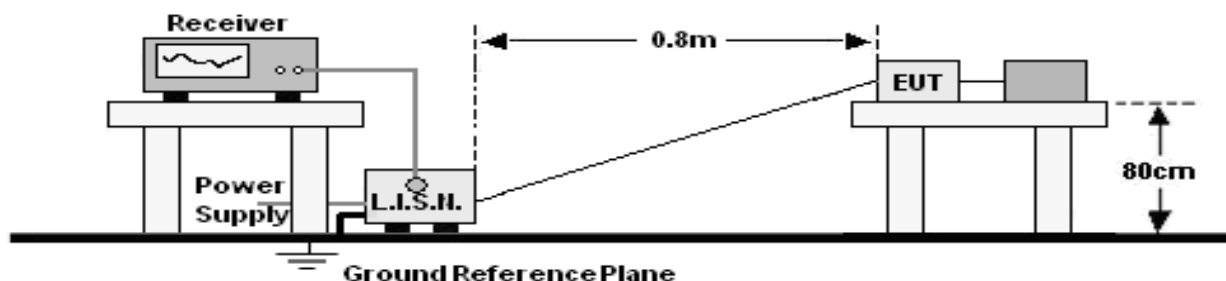
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 16, 2024	May 15, 2025
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Radio frequency control box	MAIWEI	MW100-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. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

6.3 Test Procedure

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

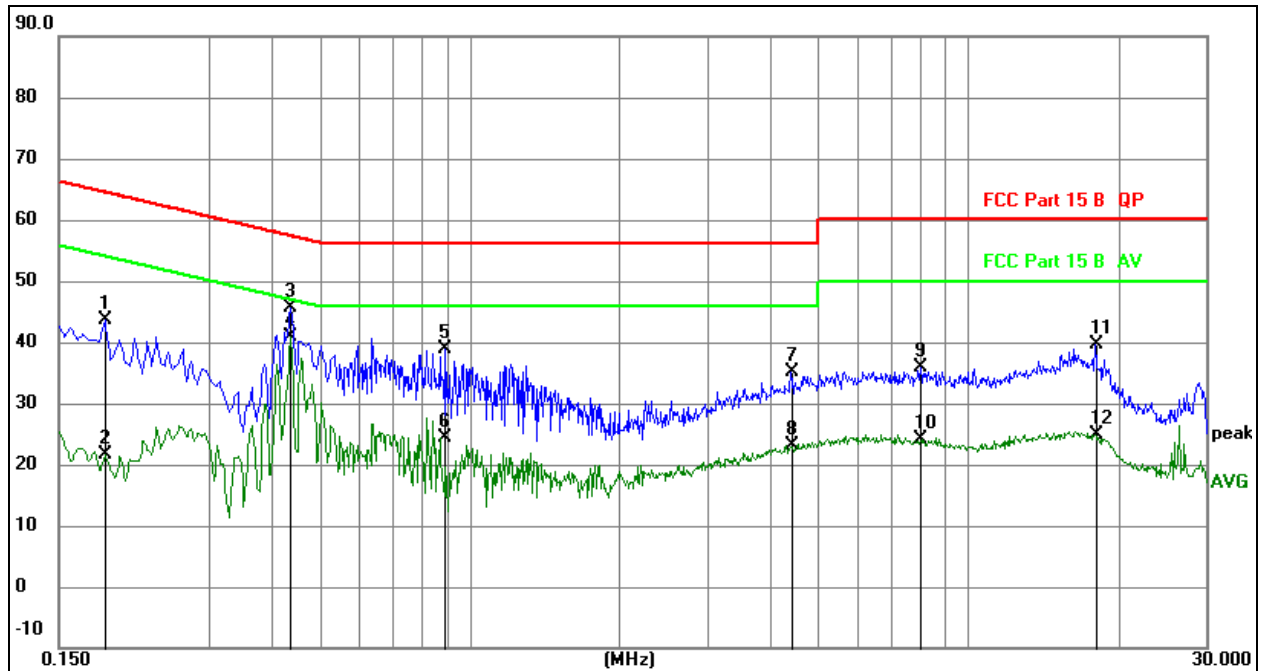
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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.
- 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

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

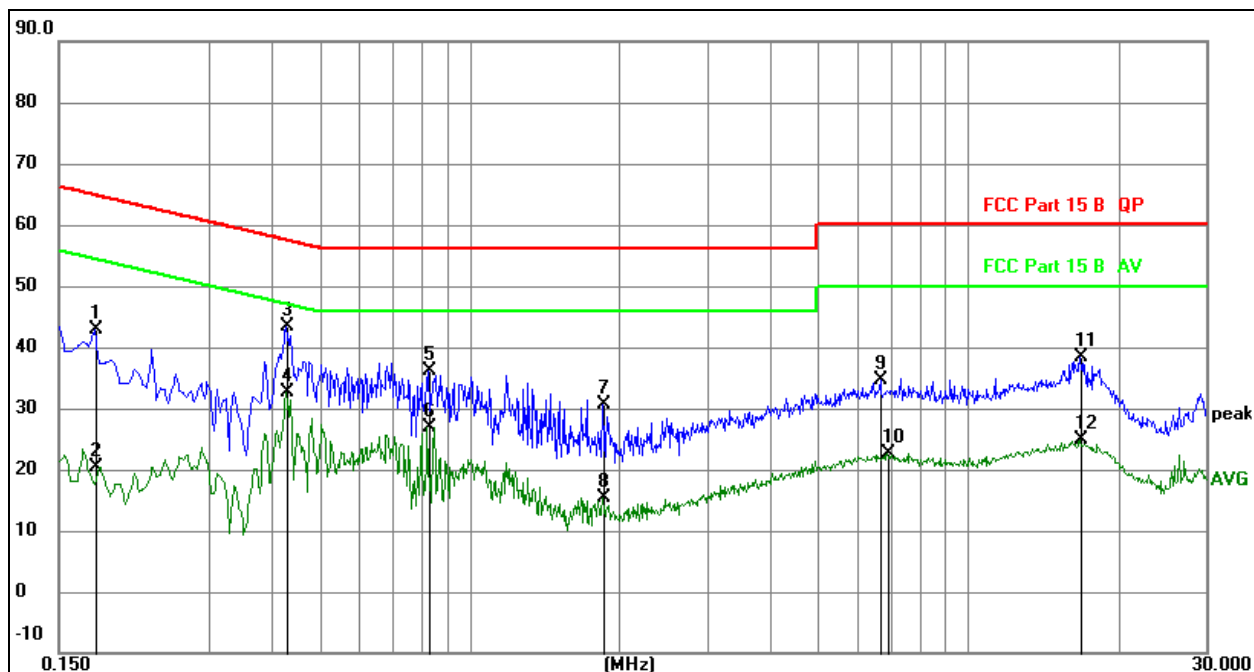


Remark:

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.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz		dB	dBuV	dBuV	dB	
1		0.1853	23.47	20.07	43.54	64.24	-20.70	QP
2		0.1853	1.54	20.07	21.61	54.24	-32.63	AVG
3		0.4374	25.45	20.08	45.53	57.11	-11.58	QP
4	*	0.4374	20.72	20.08	40.80	47.11	-6.31	AVG
5		0.8944	18.75	20.09	38.84	56.00	-17.16	QP
6		0.8944	4.37	20.09	24.46	46.00	-21.54	AVG
7		4.4071	15.00	20.14	35.14	56.00	-20.86	QP
8		4.4071	3.07	20.14	23.21	46.00	-22.79	AVG
9		8.0198	15.63	20.16	35.79	60.00	-24.21	QP
10		8.0198	3.86	20.16	24.02	50.00	-25.98	AVG
11		17.9441	19.19	20.32	39.51	60.00	-20.49	QP
12		17.9441	4.57	20.32	24.89	50.00	-25.11	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		0.1770	22.69	20.07	42.76	64.63	-21.87	QP
2		0.1770	0.37	20.07	20.44	54.63	-34.19	AVG
3	*	0.4290	23.40	20.08	43.48	57.27	-13.79	QP
4		0.4290	12.44	20.08	32.52	47.27	-14.75	AVG
5		0.8295	15.95	20.09	36.04	56.00	-19.96	QP
6		0.8295	6.88	20.09	26.97	46.00	-19.03	AVG
7		1.8510	10.43	20.10	30.53	56.00	-25.47	QP
8		1.8510	-4.68	20.10	15.42	46.00	-30.58	AVG
9		6.6885	14.45	20.16	34.61	60.00	-25.39	QP
10		6.8865	2.36	20.16	22.52	50.00	-27.48	AVG
11		16.7865	17.97	20.32	38.29	60.00	-21.71	QP
12		16.7865	4.44	20.32	24.76	50.00	-25.24	AVG

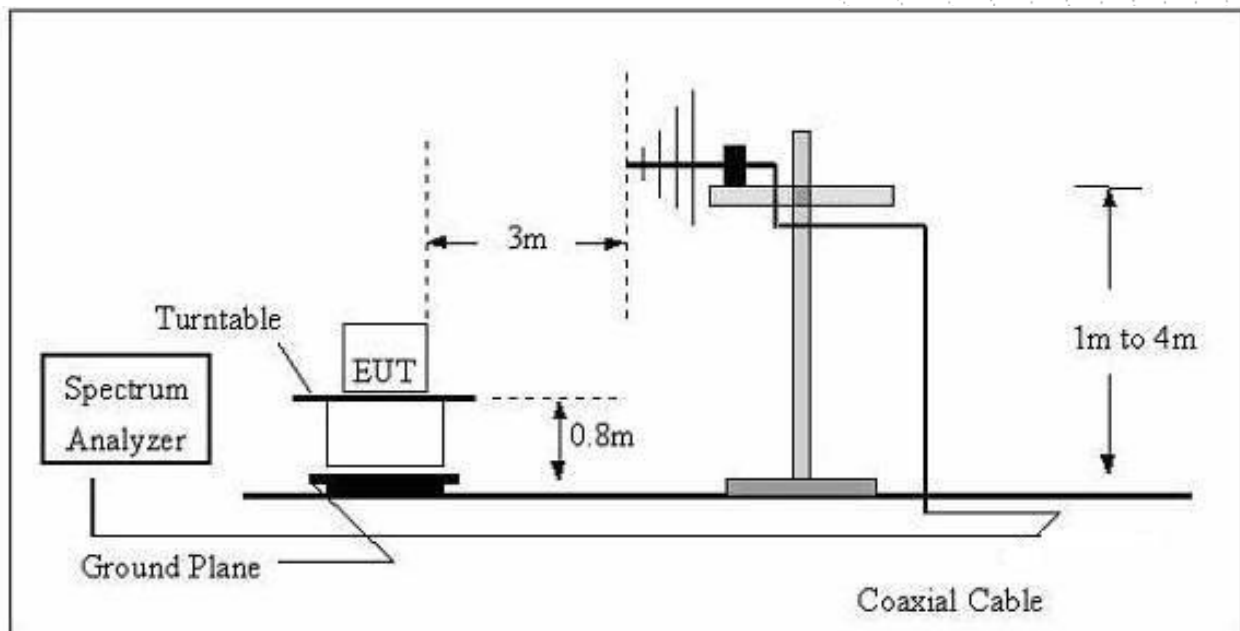
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

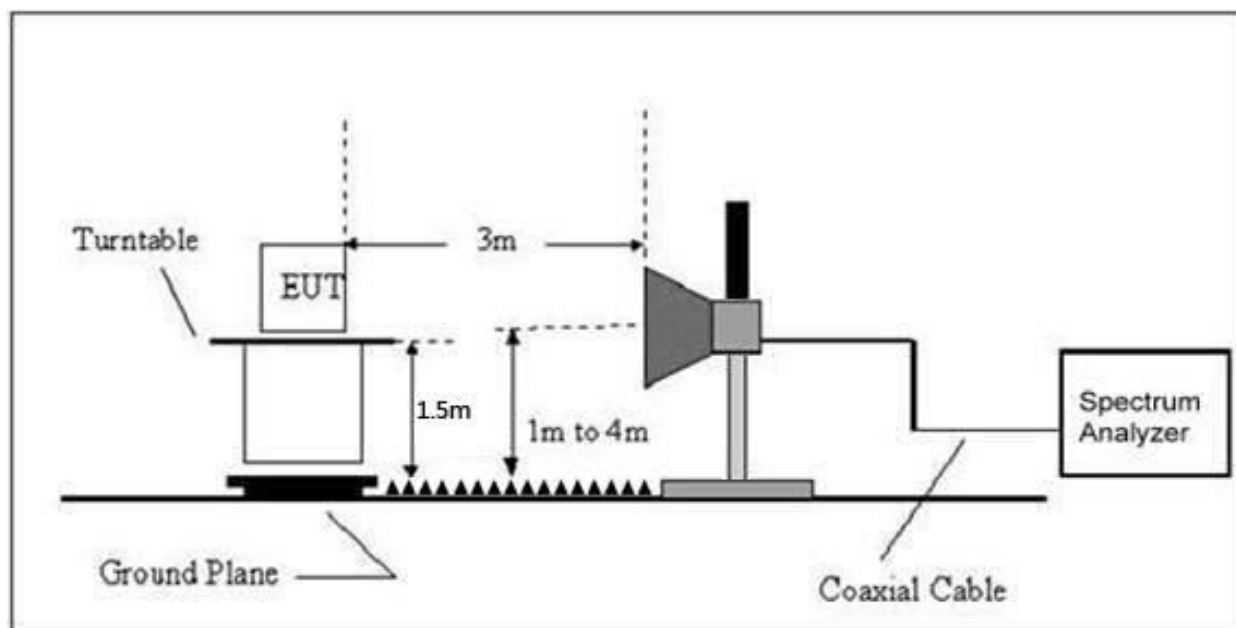
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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℃	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:

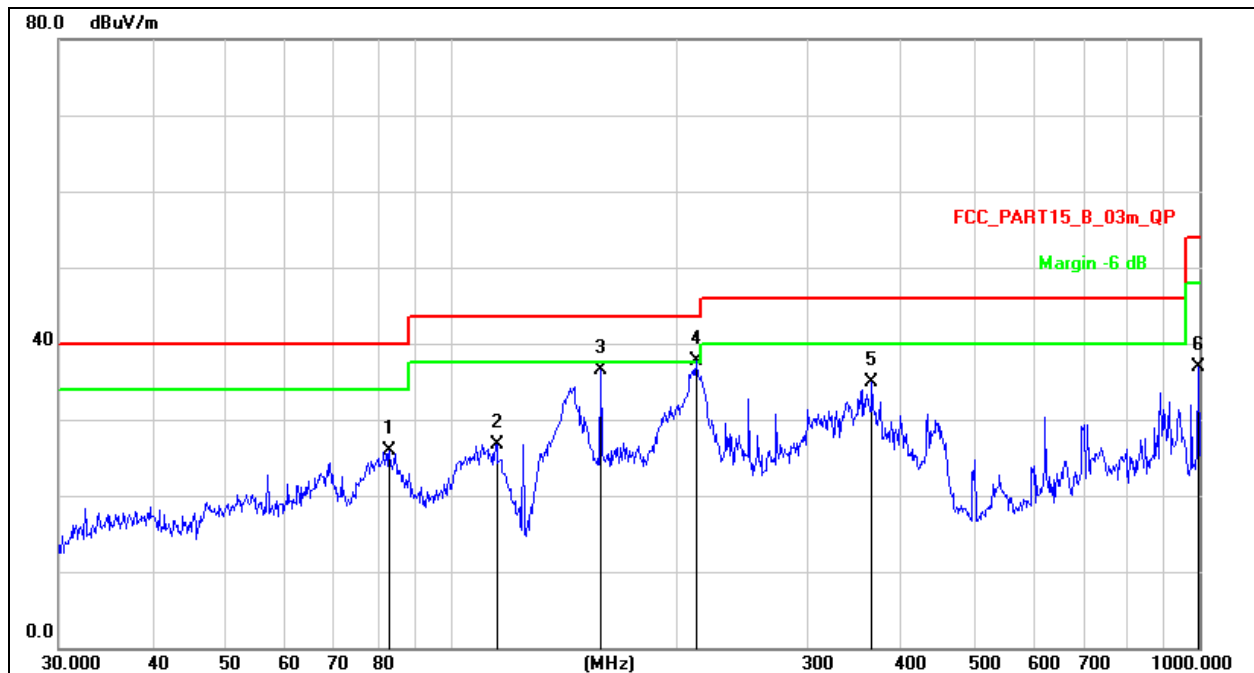
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

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

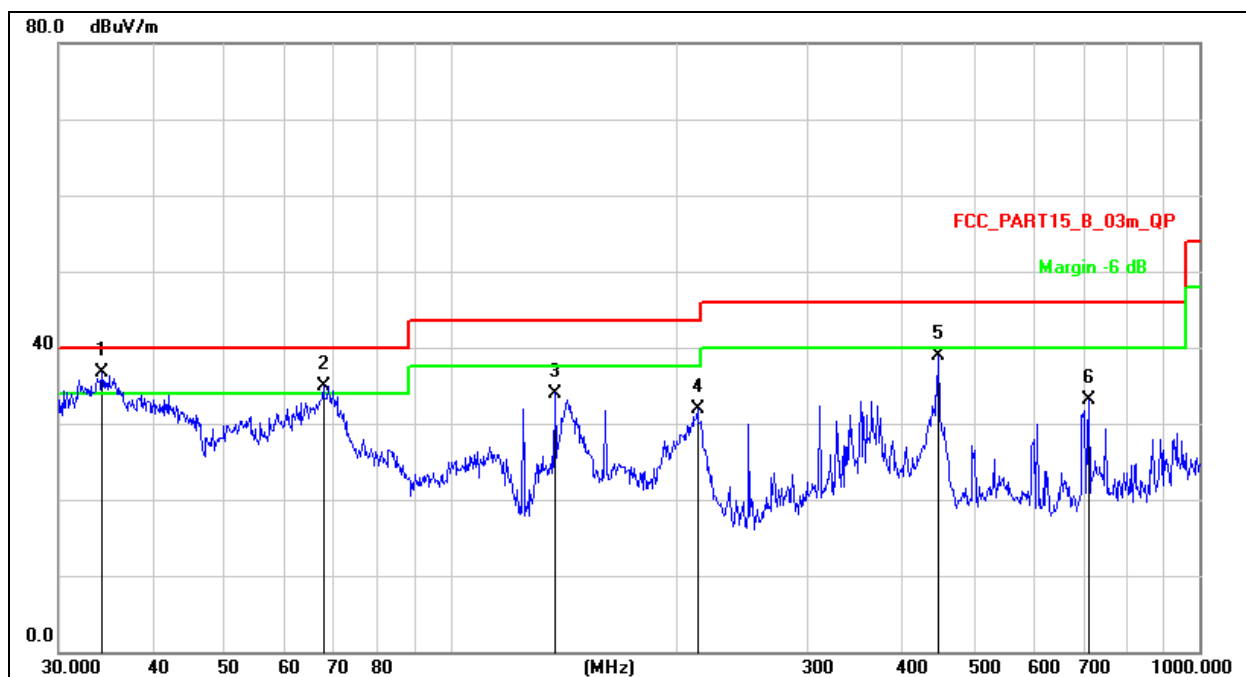


Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		82.9385	44.89	-19.06	25.83	40.00	-14.17	QP
2		115.3205	43.80	-17.00	26.80	43.50	-16.70	QP
3		158.6677	55.26	-18.79	36.47	43.50	-7.03	QP
4	*	213.0151	53.08	-15.35	37.73	43.50	-5.77	QP
5		365.5391	46.15	-11.28	34.87	46.00	-11.13	QP
6		996.4996	39.26	-2.40	36.86	54.00	-17.14	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	*	34.2760	52.53	-15.82	36.71	40.00	-3.29	QP
2	!	67.6751	52.29	-17.36	34.93	40.00	-5.07	QP
3		137.9028	52.58	-18.58	34.00	43.50	-9.50	QP
4		213.7634	47.24	-15.33	31.91	43.50	-11.59	QP
5		447.9822	48.77	-9.90	38.87	46.00	-7.13	QP
6		711.6734	38.68	-5.54	33.14	46.00	-12.86	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	4434.132	71.56	-20.73	50.83	68.2	-17.37	PK
Vertical	4434.132	59.10	-20.73	38.37	54	-15.63	AV
Vertical	10360.059	63.82	-9.36	54.46	68.2	-13.74	PK
Vertical	10360.059	49.43	-9.36	40.07	54	-13.93	AV
Vertical	15540.025	64.19	-7.84	56.35	74	-17.65	PK
Vertical	15540.025	49.63	-7.84	41.79	54	-12.21	AV
Horizontal	4434.177	73.63	-20.73	52.90	68.2	-15.30	PK
Horizontal	4434.177	59.58	-20.73	38.85	54	-15.15	AV
Horizontal	10360.175	62.49	-9.36	53.13	68.2	-15.07	PK
Horizontal	10360.175	49.79	-9.36	40.43	54	-13.57	AV
Horizontal	15540.021	61.41	-7.84	53.57	74	-20.43	PK
Horizontal	15540.021	49.20	-7.84	41.36	54	-12.64	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.137	72.58	-20.42	52.17	74	-21.83	PK
Vertical	4592.137	59.20	-20.42	38.78	54	-15.22	AV
Vertical	10400.077	60.36	-9.30	51.06	68.2	-17.14	PK
Vertical	10400.077	49.16	-9.30	39.86	54	-14.14	AV
Vertical	15600.151	64.26	-7.82	56.44	74	-17.56	PK
Vertical	15600.151	49.79	-7.82	41.97	54	-12.03	AV
Horizontal	4592.084	72.19	-20.42	51.77	74	-22.23	PK
Horizontal	4592.084	59.70	-20.42	39.29	54	-14.71	AV
Horizontal	10400.095	61.36	-9.30	52.06	68.2	-16.14	PK
Horizontal	10400.095	49.55	-9.30	40.25	54	-13.75	AV
Horizontal	15600.112	61.60	-7.82	53.78	74	-20.22	PK
Horizontal	15600.112	49.98	-7.82	42.16	54	-11.84	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.077	71.97	-20.12	51.84	74	-22.16	PK
Vertical	4739.077	59.02	-20.12	38.90	54	-15.10	AV
Vertical	10480.094	60.41	-9.18	51.23	68.2	-16.97	PK
Vertical	10480.094	49.76	-9.18	40.58	54	-13.42	AV
Vertical	15720.193	60.25	-7.78	52.47	74	-21.53	PK
Vertical	15720.193	49.16	-7.78	41.38	54	-12.62	AV
Horizontal	4739.020	72.09	-20.12	51.97	74	-22.03	PK
Horizontal	4739.020	59.41	-20.12	39.29	54	-14.71	AV
Horizontal	10480.110	64.32	-9.18	55.14	68.2	-13.06	PK
Horizontal	10480.110	49.52	-9.18	40.34	54	-13.66	AV
Horizontal	15720.097	64.52	-7.78	56.74	74	-17.26	PK
Horizontal	15720.097	49.76	-7.78	41.98	54	-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.

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	4434.005	72.96	-20.73	52.23	68.2	-15.97	PK
Vertical	4434.005	59.98	-20.73	39.25	54	-14.75	AV
Vertical	10360.071	63.23	-9.36	53.87	68.2	-14.33	PK
Vertical	10360.071	49.79	-9.36	40.43	54	-13.57	AV
Vertical	15540.095	61.52	-7.84	53.68	74	-20.32	PK
Vertical	15540.095	49.80	-7.84	41.96	54	-12.04	AV
Horizontal	4434.152	74.63	-20.73	53.90	68.2	-14.30	PK
Horizontal	4434.152	59.68	-20.73	38.95	54	-15.05	AV
Horizontal	10360.199	62.64	-9.36	53.28	68.2	-14.92	PK
Horizontal	10360.199	49.35	-9.36	39.99	54	-14.01	AV
Horizontal	15540.126	63.90	-7.84	56.06	74	-17.94	PK
Horizontal	15540.126	49.16	-7.84	41.32	54	-12.68	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.167	73.33	-20.42	52.92	74	-21.08	PK
Vertical	4592.167	59.37	-20.42	38.96	54	-15.04	AV
Vertical	10400.010	63.56	-9.30	54.26	68.2	-13.94	PK
Vertical	10400.010	49.73	-9.30	40.43	54	-13.57	AV
Vertical	15600.002	64.66	-7.82	56.84	74	-17.16	PK
Vertical	15600.002	49.21	-7.82	41.39	54	-12.61	AV
Horizontal	4592.020	70.23	-20.42	49.81	74	-24.19	PK
Horizontal	4592.020	59.96	-20.42	39.54	54	-14.46	AV
Horizontal	10400.092	63.10	-9.30	53.80	68.2	-14.40	PK
Horizontal	10400.092	49.13	-9.30	39.83	54	-14.17	AV
Horizontal	15600.042	61.43	-7.82	53.61	74	-20.39	PK
Horizontal	15600.042	49.92	-7.82	42.10	54	-11.90	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.041	70.55	-20.12	50.43	74	-23.57	PK
Vertical	4739.041	59.80	-20.12	39.68	54	-14.32	AV
Vertical	10480.003	62.26	-9.18	53.08	68.2	-15.12	PK
Vertical	10480.003	49.90	-9.18	40.72	54	-13.28	AV
Vertical	15720.045	64.55	-7.78	56.77	74	-17.23	PK
Vertical	15720.045	49.48	-7.78	41.70	54	-12.30	AV
Horizontal	4739.077	73.92	-20.12	53.80	74	-20.20	PK
Horizontal	4739.077	59.78	-20.12	39.66	54	-14.34	AV
Horizontal	10480.119	61.03	-9.18	51.85	68.2	-16.35	PK
Horizontal	10480.119	49.99	-9.18	40.81	54	-13.19	AV
Horizontal	15720.156	64.92	-7.78	57.14	74	-16.86	PK
Horizontal	15720.156	49.73	-7.78	41.95	54	-12.05	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11n-HT40
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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	4434.036	70.63	-20.73	49.90	68.2	-18.30	PK
Vertical	4434.036	59.06	-20.73	38.33	54	-15.67	AV
Vertical	10380.102	60.18	-9.33	50.85	68.2	-17.35	PK
Vertical	10380.102	49.52	-9.33	40.19	54	-13.81	AV
Vertical	15570.162	62.99	-7.83	55.16	74	-18.84	PK
Vertical	15570.162	49.32	-7.83	41.49	54	-12.51	AV
Horizontal	4434.184	72.40	-20.73	51.67	74	-22.33	PK
Horizontal	4434.184	59.42	-20.73	38.69	54	-15.31	AV
Horizontal	10380.083	63.56	-9.33	54.23	68.2	-13.97	PK
Horizontal	10380.083	49.98	-9.33	40.65	54	-13.35	AV
Horizontal	15570.037	61.71	-7.83	53.88	74	-20.12	PK
Horizontal	15570.037	49.08	-7.83	41.25	54	-12.75	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.005	72.64	-20.12	52.52	68.2	-15.68	PK
Vertical	4739.005	59.04	-20.12	38.91	54	-15.09	AV
Vertical	10460.163	60.28	-9.21	51.07	68.2	-17.13	PK
Vertical	10460.163	49.88	-9.21	40.67	54	-13.33	AV
Vertical	15690.167	64.91	-7.79	57.12	74	-16.88	PK
Vertical	15690.167	49.55	-7.79	41.76	54	-12.24	AV
Horizontal	4739.044	70.73	-20.12	50.61	68.2	-17.59	PK
Horizontal	4739.044	59.51	-20.12	39.39	54	-14.61	AV
Horizontal	10460.177	62.70	-9.21	53.49	68.2	-14.71	PK
Horizontal	10460.177	49.55	-9.21	40.34	54	-13.66	AV
Horizontal	15690.191	62.46	-7.79	54.67	74	-19.33	PK
Horizontal	15690.191	49.07	-7.79	41.28	54	-12.72	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ac-HT20
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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	4434.047	74.78	-20.73	54.05	68.2	-14.15	PK
Vertical	4434.047	59.95	-20.73	39.22	54	-14.78	AV
Vertical	10360.111	64.66	-9.36	55.30	68.2	-12.90	PK
Vertical	10360.111	49.56	-9.36	40.20	54	-13.80	AV
Vertical	15540.063	62.40	-7.84	54.56	74	-19.44	PK
Vertical	15540.063	49.03	-7.84	41.19	54	-12.81	AV
Horizontal	4434.124	71.19	-20.73	50.46	68.2	-17.74	PK
Horizontal	4434.124	59.75	-20.73	39.02	54	-14.98	AV
Horizontal	10360.142	62.99	-9.36	53.63	68.2	-14.57	PK
Horizontal	10360.142	49.65	-9.36	40.29	54	-13.71	AV
Horizontal	15540.015	63.57	-7.84	55.73	74	-18.27	PK
Horizontal	15540.015	49.29	-7.84	41.45	54	-12.55	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.151	73.69	-20.42	53.28	74	-20.72	PK
Vertical	4592.151	59.91	-20.42	39.49	54	-14.51	AV
Vertical	10400.187	61.60	-9.30	52.30	68.2	-15.90	PK
Vertical	10400.187	49.80	-9.30	40.50	54	-13.50	AV
Vertical	15600.193	61.13	-7.82	53.31	74	-20.69	PK
Vertical	15600.193	49.71	-7.82	41.89	54	-12.11	AV
Horizontal	4592.157	73.54	-20.42	53.12	74	-20.88	PK
Horizontal	4592.157	59.42	-20.42	39.01	54	-14.99	AV
Horizontal	10400.178	63.11	-9.30	53.81	68.2	-14.39	PK
Horizontal	10400.178	49.91	-9.30	40.61	54	-13.39	AV
Horizontal	15600.158	62.40	-7.82	54.58	74	-19.42	PK
Horizontal	15600.158	49.48	-7.82	41.66	54	-12.34	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.152	73.37	-20.12	53.25	74	-20.75	PK
Vertical	4739.152	59.68	-20.12	39.56	54	-14.44	AV
Vertical	10480.006	64.28	-9.18	55.10	68.2	-13.10	PK
Vertical	10480.006	49.47	-9.18	40.29	54	-13.71	AV
Vertical	15720.194	60.20	-7.78	52.42	74	-21.58	PK
Vertical	15720.194	49.55	-7.78	41.77	54	-12.23	AV
Horizontal	4739.094	73.71	-20.12	53.58	74	-20.42	PK
Horizontal	4739.094	59.24	-20.12	39.11	54	-14.89	AV
Horizontal	10480.026	63.88	-9.18	54.70	68.2	-13.50	PK
Horizontal	10480.026	49.12	-9.18	39.94	54	-14.06	AV
Horizontal	15720.027	60.87	-7.78	53.09	74	-20.91	PK
Horizontal	15720.027	49.07	-7.78	41.29	54	-12.71	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ac-HT40
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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	4434.109	73.06	-20.73	52.33	68.2	-15.87	PK
Vertical	4434.109	59.28	-20.73	38.55	54	-15.45	AV
Vertical	10380.109	63.10	-9.33	53.77	68.2	-14.43	PK
Vertical	10380.109	49.66	-9.33	40.33	54	-13.67	AV
Vertical	15570.136	63.55	-7.83	55.72	74	-18.28	PK
Vertical	15570.136	49.40	-7.83	41.57	54	-12.43	AV
Horizontal	4434.192	73.96	-20.73	53.23	74	-20.77	PK
Horizontal	4434.192	59.79	-20.73	39.06	54	-14.94	AV
Horizontal	10380.197	61.13	-9.33	51.80	68.2	-16.40	PK
Horizontal	10380.197	49.49	-9.33	40.16	54	-13.84	AV
Horizontal	15570.021	60.64	-7.83	52.81	74	-21.19	PK
Horizontal	15570.021	49.42	-7.83	41.59	54	-12.41	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.200	74.07	-20.12	53.95	68.2	-14.25	PK
Vertical	4739.200	59.58	-20.12	39.46	54	-14.54	AV
Vertical	10460.100	63.19	-9.21	53.98	68.2	-14.22	PK
Vertical	10460.100	49.69	-9.21	40.48	54	-13.52	AV
Vertical	15690.076	63.61	-7.79	55.82	74	-18.18	PK
Vertical	15690.076	49.19	-7.79	41.40	54	-12.60	AV
Horizontal	4739.076	71.29	-20.12	51.17	68.2	-17.03	PK
Horizontal	4739.076	59.29	-20.12	39.17	54	-14.83	AV
Horizontal	10460.134	61.09	-9.21	51.88	68.2	-16.32	PK
Horizontal	10460.134	49.77	-9.21	40.56	54	-13.44	AV
Horizontal	15690.134	64.32	-7.79	56.53	74	-17.47	PK
Horizontal	15690.134	49.11	-7.79	41.32	54	-12.68	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ac 80
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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 (5210 MHz)-Above 1G							
Vertical	4434.094	70.93	-20.73	50.20	68.2	-18.00	PK
Vertical	4434.094	59.18	-20.73	38.45	54	-15.55	AV
Vertical	10420.060	63.44	-9.27	54.17	68.2	-14.03	PK
Vertical	10420.060	49.73	-9.27	40.46	54	-13.54	AV
Vertical	15630.058	64.47	-7.81	56.66	74	-17.34	PK
Vertical	15630.058	49.59	-7.81	41.78	54	-12.22	AV
Horizontal	4434.137	72.44	-20.73	51.71	68.2	-16.49	PK
Horizontal	4434.137	59.52	-20.73	38.79	54	-15.21	AV
Horizontal	10420.090	40.85	9.27	50.12	68.2	-18.08	PK
Horizontal	10420.090	29.04	9.27	38.31	54	-15.69	AV
Horizontal	15630.098	61.38	-7.81	53.57	74	-20.43	PK
Horizontal	15630.098	49.56	-7.81	41.75	54	-12.25	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 is MIMO Mode.

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	4434.071	74.35	-20.73	53.62	68.2	-14.58	PK
Vertical	4434.071	59.69	-20.73	38.96	54	-15.04	AV
Vertical	10360.096	62.80	-9.36	53.44	68.2	-14.76	PK
Vertical	10360.096	49.29	-9.36	39.93	54	-14.07	AV
Vertical	15540.102	63.60	-7.84	55.76	74	-18.24	PK
Vertical	15540.102	49.77	-7.84	41.93	54	-12.07	AV
Horizontal	4434.008	74.37	-20.73	53.64	68.2	-14.56	PK
Horizontal	4434.008	59.37	-20.73	38.64	54	-15.36	AV
Horizontal	10360.016	64.43	-9.36	55.07	68.2	-13.13	PK
Horizontal	10360.016	49.82	-9.36	40.46	54	-13.54	AV
Horizontal	15540.154	62.31	-7.84	54.47	74	-19.53	PK
Horizontal	15540.154	49.38	-7.84	41.54	54	-12.46	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.007	73.53	-20.42	53.11	74	-20.89	PK
Vertical	4592.007	59.65	-20.42	39.24	54	-14.76	AV
Vertical	10400.132	63.14	-9.30	53.84	68.2	-14.36	PK
Vertical	10400.132	49.43	-9.30	40.13	54	-13.87	AV
Vertical	15600.053	60.86	-7.82	53.04	74	-20.96	PK
Vertical	15600.053	49.10	-7.82	41.28	54	-12.72	AV
Horizontal	4592.012	74.57	-20.42	54.15	74	-19.85	PK
Horizontal	4592.012	59.46	-20.42	39.05	54	-14.95	AV
Horizontal	10400.028	63.04	-9.30	53.74	68.2	-14.46	PK
Horizontal	10400.028	49.93	-9.30	40.63	54	-13.37	AV
Horizontal	15600.061	60.66	-7.82	52.84	74	-21.16	PK
Horizontal	15600.061	49.03	-7.82	41.21	54	-12.79	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.039	74.29	-20.12	54.16	74	-19.84	PK
Vertical	4739.039	59.07	-20.12	38.95	54	-15.05	AV
Vertical	10480.016	63.18	-9.18	54.00	68.2	-14.20	PK
Vertical	10480.016	49.05	-9.18	39.87	54	-14.13	AV
Vertical	15720.197	60.65	-7.78	52.87	74	-21.13	PK
Vertical	15720.197	49.66	-7.78	41.88	54	-12.12	AV
Horizontal	4739.087	70.49	-20.12	50.37	74	-23.63	PK
Horizontal	4739.087	59.39	-20.12	39.27	54	-14.73	AV
Horizontal	10480.185	64.98	-9.18	55.80	68.2	-12.40	PK
Horizontal	10480.185	49.97	-9.18	40.79	54	-13.21	AV
Horizontal	15720.190	60.26	-7.78	52.48	74	-21.52	PK
Horizontal	15720.190	49.90	-7.78	42.12	54	-11.88	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ax-HT40
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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	4434.006	74.03	-20.73	53.30	68.2	-14.90	PK
Vertical	4434.006	59.68	-20.73	38.95	54	-15.05	AV
Vertical	10380.102	60.32	-9.33	50.99	68.2	-17.21	PK
Vertical	10380.102	49.94	-9.33	40.61	54	-13.39	AV
Vertical	15570.198	61.02	-7.83	53.19	74	-20.81	PK
Vertical	15570.198	49.02	-7.83	41.19	54	-12.81	AV
Horizontal	4434.078	73.45	-20.73	52.72	74	-21.28	PK
Horizontal	4434.078	59.31	-20.73	38.57	54	-15.43	AV
Horizontal	10380.021	61.56	-9.33	52.23	68.2	-15.97	PK
Horizontal	10380.021	49.75	-9.33	40.42	54	-13.58	AV
Horizontal	15570.061	62.85	-7.83	55.02	74	-18.98	PK
Horizontal	15570.061	49.03	-7.83	41.20	54	-12.80	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.185	74.61	-20.12	54.49	68.2	-13.71	PK
Vertical	4739.185	59.09	-20.12	38.96	54	-15.04	AV
Vertical	10460.059	62.46	-9.21	53.25	68.2	-14.95	PK
Vertical	10460.059	49.93	-9.21	40.72	54	-13.28	AV
Vertical	15690.111	61.68	-7.79	53.89	74	-20.11	PK
Vertical	15690.111	49.49	-7.79	41.70	54	-12.30	AV
Horizontal	4739.032	71.85	-20.12	51.73	68.2	-16.47	PK
Horizontal	4739.032	59.48	-20.12	39.36	54	-14.64	AV
Horizontal	10460.020	62.65	-9.21	53.44	68.2	-14.76	PK
Horizontal	10460.020	49.51	-9.21	40.30	54	-13.70	AV
Horizontal	15690.068	62.25	-7.79	54.46	74	-19.54	PK
Horizontal	15690.068	49.50	-7.79	41.71	54	-12.29	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ax 80
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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 (5210 MHz)-Above 1G							
Vertical	4434.182	74.70	-20.73	53.97	68.2	-14.23	PK
Vertical	4434.182	59.13	-20.73	38.40	54	-15.60	AV
Vertical	10420.024	64.00	-9.27	54.73	68.2	-13.47	PK
Vertical	10420.024	49.24	-9.27	39.97	54	-14.03	AV
Vertical	15630.193	64.65	-7.81	56.84	74	-17.16	PK
Vertical	15630.193	49.59	-7.81	41.78	54	-12.22	AV
Horizontal	4434.086	71.21	-20.73	50.48	68.2	-17.72	PK
Horizontal	4434.086	59.43	-20.73	38.69	54	-15.31	AV
Horizontal	10420.165	42.90	9.27	52.17	68.2	-16.03	PK
Horizontal	10420.165	29.90	9.27	39.17	54	-14.83	AV
Horizontal	15630.013	63.92	-7.81	56.11	74	-17.89	PK
Horizontal	15630.013	49.73	-7.81	41.92	54	-12.08	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode:	TX (5.8G) -- 802.11a
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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	4679.153	72.92	-20.24	52.68	74	-21.32	PK
Vertical	4679.153	59.81	-20.24	39.57	54	-14.43	AV
Vertical	11490.196	64.70	-8.79	55.91	68.2	-12.29	PK
Vertical	11490.196	49.77	-8.79	40.98	54	-13.02	AV
Vertical	17235.083	55.34	-3.18	52.16	68.2	-16.04	PK
Vertical	17235.083	44.35	-3.18	41.17	54	-12.83	AV
Horizontal	4679.132	74.36	-20.73	53.63	74	-20.37	PK
Horizontal	4679.132	59.80	-20.73	39.07	54	-14.93	AV
Horizontal	11490.174	60.05	-8.79	51.26	68.2	-16.94	PK
Horizontal	11490.174	49.99	-8.79	41.20	54	-12.80	AV
Horizontal	17235.177	57.52	-3.18	54.34	68.2	-13.86	PK
Horizontal	17235.177	44.19	-3.18	41.01	54	-12.99	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.036	74.14	-20.42	53.72	74	-20.28	PK
Vertical	4592.036	59.39	-20.42	38.98	54	-15.02	AV
Vertical	11570.109	62.22	-8.86	53.36	68.2	-14.84	PK
Vertical	11570.109	49.78	-8.86	40.92	54	-13.08	AV
Vertical	17355.006	56.58	-2.52	54.06	68.2	-14.14	PK
Vertical	17355.006	44.11	-2.52	41.59	54	-12.41	AV
Horizontal	4592.099	70.09	-20.42	49.68	74	-24.32	PK
Horizontal	4592.099	59.43	-20.42	39.01	54	-14.99	AV
Horizontal	11570.192	61.66	-8.86	52.80	68.2	-15.40	PK
Horizontal	11570.192	49.40	-8.86	40.54	54	-13.46	AV
Horizontal	17355.130	57.69	-2.52	55.17	68.2	-13.03	PK
Horizontal	17355.130	44.13	-2.52	41.61	54	-12.39	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.133	73.00	-18.93	54.07	68.2	-14.13	PK
Vertical	6039.133	59.75	-18.93	40.82	54	-13.18	AV
Vertical	11650.127	61.47	-8.92	52.55	74	-21.45	PK
Vertical	11650.127	49.17	-8.92	40.25	54	-13.75	AV
Vertical	17475.163	58.38	-1.86	56.52	68.2	-11.68	PK
Vertical	17475.163	44.81	-1.86	42.95	54	-11.05	AV
Horizontal	6039.049	70.45	-18.93	51.52	68.2	-16.68	PK
Horizontal	6039.049	59.62	-18.93	40.69	54	-13.31	AV
Horizontal	11650.085	61.08	-8.92	52.16	74	-21.84	PK
Horizontal	11650.085	49.69	-8.92	40.77	54	-13.23	AV
Horizontal	17475.056	57.17	-1.86	55.31	68.2	-12.89	PK
Horizontal	17475.056	44.91	-1.86	43.05	54	-10.95	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

The worst case is Antenna A

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

Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.042	70.77	-20.24	50.53	74	-23.47	PK
Vertical	4679.042	59.95	-20.24	39.71	54	-14.29	AV
Vertical	11490.172	60.48	-8.79	51.69	68.2	-16.51	PK
Vertical	11490.172	49.68	-8.79	40.89	54	-13.11	AV
Vertical	17235.137	57.45	-3.18	54.27	68.2	-13.93	PK
Vertical	17235.137	44.07	-3.18	40.89	54	-13.11	AV
Horizontal	4679.165	73.27	-20.24	53.03	74	-20.97	PK
Horizontal	4679.165	59.88	-20.24	39.64	54	-14.36	AV
Horizontal	11490.077	61.57	-8.79	52.78	68.2	-15.42	PK
Horizontal	11490.077	49.12	-8.79	40.33	54	-13.67	AV
Horizontal	17235.072	55.74	-3.18	52.56	68.2	-15.64	PK
Horizontal	17235.072	44.08	-3.18	40.90	54	-13.10	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.076	71.07	-20.42	50.65	74	-23.35	PK
Vertical	4592.076	59.63	-20.42	39.21	54	-14.79	AV
Vertical	11570.157	64.66	-8.86	55.80	68.2	-12.40	PK
Vertical	11570.157	49.23	-8.86	40.37	54	-13.63	AV
Vertical	17355.028	58.06	-2.52	55.54	68.2	-12.66	PK
Vertical	17355.028	44.30	-2.52	41.78	54	-12.22	AV
Horizontal	4592.045	72.24	-20.42	51.82	74	-22.18	PK
Horizontal	4592.045	59.96	-20.42	39.54	54	-14.46	AV
Horizontal	11570.188	60.97	-8.86	52.11	68.2	-16.09	PK
Horizontal	11570.188	49.92	-8.86	41.06	54	-12.94	AV
Horizontal	17355.195	59.16	-2.52	56.64	68.2	-11.56	PK
Horizontal	17355.195	44.06	-2.52	41.54	54	-12.46	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.165	73.57	-18.93	54.64	68.2	-13.56	PK
Vertical	6039.165	59.15	-18.93	40.22	54	-13.78	AV
Vertical	11650.196	61.33	-8.92	52.41	74	-21.59	PK
Vertical	11650.196	49.85	-8.92	40.93	54	-13.07	AV
Vertical	17475.100	55.06	-1.86	53.20	68.2	-15.00	PK
Vertical	17475.100	44.06	-1.86	42.20	54	-11.80	AV
Horizontal	6039.132	70.04	-18.93	51.11	68.2	-17.09	PK
Horizontal	6039.132	59.55	-18.93	40.62	54	-13.38	AV
Horizontal	11650.008	64.37	-8.92	55.45	74	-18.55	PK
Horizontal	11650.008	49.59	-8.92	40.67	54	-13.33	AV
Horizontal	17475.169	57.42	-1.86	55.56	68.2	-12.64	PK
Horizontal	17475.169	44.92	-1.86	43.06	54	-10.94	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 is MIMO Mode.

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	4679.002	70.94	-20.24	50.70	74	-23.30	PK
Vertical	4679.002	59.22	-20.24	38.98	54	-15.02	AV
Vertical	11510.003	63.59	-8.81	54.78	74	-19.22	PK
Vertical	11510.003	49.75	-8.81	40.94	54	-13.06	AV
Vertical	17265.155	58.94	-3.01	55.93	68.2	-12.27	PK
Vertical	17265.155	44.20	-3.01	41.19	54	-12.81	AV
Horizontal	4679.078	73.10	-20.24	52.85	74	-21.15	PK
Horizontal	4679.078	59.63	-20.24	39.39	54	-14.61	AV
Horizontal	11510.045	60.87	-8.81	52.06	74	-21.94	PK
Horizontal	11510.045	49.61	-8.81	40.80	54	-13.20	AV
Horizontal	17265.076	55.71	-3.01	52.70	68.2	-15.50	PK
Horizontal	17265.076	44.14	-3.01	41.13	54	-12.87	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.094	70.07	-18.93	51.13	68.2	-17.07	PK
Vertical	6039.094	59.39	-18.93	40.46	54	-13.54	AV
Vertical	11590.041	60.44	-8.87	51.57	74	-22.43	PK
Vertical	11590.041	49.24	-8.87	40.37	54	-13.63	AV
Vertical	17385.067	58.89	-2.35	56.54	68.2	-11.66	PK
Vertical	17385.067	44.84	-2.35	42.49	54	-11.51	AV
Horizontal	6039.196	73.73	-18.93	54.80	68.2	-13.40	PK
Horizontal	6039.196	59.33	-18.93	40.40	54	-13.60	AV
Horizontal	11590.131	64.08	-8.87	55.21	74	-18.79	PK
Horizontal	11590.131	49.48	-8.87	40.61	54	-13.39	AV
Horizontal	17385.008	57.04	-2.35	54.69	68.2	-13.51	PK
Horizontal	17385.008	44.67	-2.35	42.32	54	-11.68	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

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

Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.093	72.08	-20.24	51.84	74	-22.16	PK
Vertical	4679.093	59.32	-20.24	39.07	54	-14.93	AV
Vertical	11490.146	64.85	-8.79	56.06	68.2	-12.14	PK
Vertical	11490.146	49.08	-8.79	40.29	54	-13.71	AV
Vertical	17235.160	56.23	-3.18	53.05	68.2	-15.15	PK
Vertical	17235.160	44.11	-3.18	40.93	54	-13.07	AV
Horizontal	4679.174	71.93	-20.24	51.69	74	-22.31	PK
Horizontal	4679.174	59.17	-20.24	38.93	54	-15.07	AV
Horizontal	11490.051	63.64	-8.79	54.85	68.2	-13.35	PK
Horizontal	11490.051	49.64	-8.79	40.85	54	-13.15	AV
Horizontal	17235.158	57.83	-3.18	54.65	68.2	-13.55	PK
Horizontal	17235.158	44.84	-3.18	41.66	54	-12.34	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.031	74.20	-20.42	53.79	74	-20.21	PK
Vertical	4592.031	59.16	-20.42	38.75	54	-15.25	AV
Vertical	11570.165	61.47	-8.86	52.61	68.2	-15.59	PK
Vertical	11570.165	49.01	-8.86	40.15	54	-13.85	AV
Vertical	17355.151	56.32	-2.52	53.80	68.2	-14.40	PK
Vertical	17355.151	44.20	-2.52	41.68	54	-12.32	AV
Horizontal	4592.106	73.41	-20.42	53.00	74	-21.00	PK
Horizontal	4592.106	59.18	-20.42	38.76	54	-15.24	AV
Horizontal	11570.010	62.39	-8.86	53.53	68.2	-14.67	PK
Horizontal	11570.010	49.20	-8.86	40.34	54	-13.66	AV
Horizontal	17355.101	59.03	-2.52	56.51	68.2	-11.69	PK
Horizontal	17355.101	44.76	-2.52	42.24	54	-11.76	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.000	73.10	-18.93	54.17	68.2	-14.03	PK
Vertical	6039.000	59.86	-18.93	40.93	54	-13.07	AV
Vertical	11650.042	63.94	-8.92	55.02	74	-18.98	PK
Vertical	11650.042	49.98	-8.92	41.06	54	-12.94	AV
Vertical	17475.030	57.42	-1.86	55.56	68.2	-12.64	PK
Vertical	17475.030	44.09	-1.86	42.23	54	-11.77	AV
Horizontal	6039.036	73.23	-18.93	54.30	68.2	-13.90	PK
Horizontal	6039.036	59.67	-18.93	40.73	54	-13.27	AV
Horizontal	11650.153	64.23	-8.92	55.31	74	-18.69	PK
Horizontal	11650.153	49.93	-8.92	41.01	54	-12.99	AV
Horizontal	17475.045	57.50	-1.86	55.64	68.2	-12.56	PK
Horizontal	17475.045	44.67	-1.86	42.81	54	-11.19	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode :	TX (5.8G) -- 802.11ac-HT40
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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	4679.156	71.84	-20.24	51.60	74	-22.40	PK
Vertical	4679.156	59.85	-20.24	39.61	54	-14.39	AV
Vertical	11510.054	62.56	-8.81	53.75	74	-20.25	PK
Vertical	11510.054	49.66	-8.81	40.85	54	-13.15	AV
Vertical	17265.125	59.26	-3.01	56.25	68.2	-11.95	PK
Vertical	17265.125	44.01	-3.01	41.00	54	-13.00	AV
Horizontal	4679.181	73.92	-20.24	53.68	74	-20.32	PK
Horizontal	4679.181	59.80	-20.24	39.55	54	-14.45	AV
Horizontal	11510.004	61.36	-8.81	52.55	74	-21.45	PK
Horizontal	11510.004	49.25	-8.81	40.44	54	-13.56	AV
Horizontal	17265.198	55.34	-3.01	52.33	68.2	-15.87	PK
Horizontal	17265.198	44.47	-3.01	41.46	54	-12.54	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.001	74.26	-18.93	55.32	68.2	-12.88	PK
Vertical	6039.001	59.14	-18.93	40.21	54	-13.79	AV
Vertical	11590.192	60.99	-8.87	52.12	74	-21.88	PK
Vertical	11590.192	49.46	-8.87	40.59	54	-13.41	AV
Vertical	17385.092	56.47	-2.35	54.12	68.2	-14.08	PK
Vertical	17385.092	44.74	-2.35	42.39	54	-11.61	AV
Horizontal	6039.157	72.12	-18.93	53.19	68.2	-15.01	PK
Horizontal	6039.157	59.63	-18.93	40.70	54	-13.30	AV
Horizontal	11590.009	60.60	-8.87	51.73	74	-22.27	PK
Horizontal	11590.009	49.41	-8.87	40.54	54	-13.46	AV
Horizontal	17385.112	58.39	-2.35	56.04	68.2	-12.16	PK
Horizontal	17385.112	44.93	-2.35	42.58	54	-11.42	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode :	TX (5.8G) -- 802.11ac 80
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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 (5775 MHz)-Above 1G							
Vertical	4679.019	74.77	-20.24	54.53	74	-19.47	PK
Vertical	4679.019	59.31	-20.24	39.07	54	-14.93	AV
Vertical	11550.193	61.48	-8.84	52.64	74	-21.36	PK
Vertical	11550.193	49.62	-8.84	40.78	54	-13.22	AV
Vertical	17325.172	58.98	-2.68	56.30	68.2	-11.90	PK
Vertical	17325.172	44.10	-2.68	41.42	54	-12.58	AV
Horizontal	4679.098	71.75	-20.24	51.51	74	-22.49	PK
Horizontal	4679.098	59.99	-20.24	39.75	54	-14.25	AV
Horizontal	11550.172	64.23	-8.84	55.39	74	-18.61	PK
Horizontal	11550.172	49.08	-8.84	40.24	54	-13.76	AV
Horizontal	17325.146	55.31	-2.68	52.63	68.2	-15.57	PK
Horizontal	17325.146	44.18	-2.68	41.50	54	-12.50	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode:	TX (5.8G) --802.11ax-HT20
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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	4679.042	74.44	-20.24	54.19	74	-19.81	PK
Vertical	4679.042	59.80	-20.24	39.56	54	-14.44	AV
Vertical	11490.002	61.69	-8.79	52.90	68.2	-15.30	PK
Vertical	11490.002	49.18	-8.79	40.39	54	-13.61	AV
Vertical	17235.028	56.23	-3.18	53.05	68.2	-15.15	PK
Vertical	17235.028	44.38	-3.18	41.20	54	-12.80	AV
Horizontal	4679.188	73.90	-20.24	53.66	74	-20.34	PK
Horizontal	4679.188	59.78	-20.24	39.54	54	-14.46	AV
Horizontal	11490.103	61.66	-8.79	52.87	68.2	-15.33	PK
Horizontal	11490.103	49.76	-8.79	40.97	54	-13.03	AV
Horizontal	17235.086	58.79	-3.18	55.61	68.2	-12.59	PK
Horizontal	17235.086	44.55	-3.18	41.37	54	-12.63	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.065	73.54	-20.42	53.12	74	-20.88	PK
Vertical	4592.065	59.90	-20.42	39.48	54	-14.52	AV
Vertical	11570.020	61.98	-8.86	53.12	68.2	-15.08	PK
Vertical	11570.020	49.05	-8.86	40.19	54	-13.81	AV
Vertical	17355.176	58.25	-2.52	55.73	68.2	-12.47	PK
Vertical	17355.176	44.82	-2.52	42.30	54	-11.70	AV
Horizontal	4592.130	73.97	-20.42	53.55	74	-20.45	PK
Horizontal	4592.130	59.87	-20.42	39.45	54	-14.55	AV
Horizontal	11570.123	63.62	-8.86	54.76	68.2	-13.44	PK
Horizontal	11570.123	49.74	-8.86	40.88	54	-13.12	AV
Horizontal	17355.025	58.48	-2.52	55.96	68.2	-12.24	PK
Horizontal	17355.025	44.72	-2.52	42.20	54	-11.80	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.078	74.91	-18.93	55.97	68.2	-12.23	PK
Vertical	6039.078	59.32	-18.93	40.39	54	-13.61	AV
Vertical	11650.163	62.83	-8.92	53.91	74	-20.09	PK
Vertical	11650.163	49.91	-8.92	40.99	54	-13.01	AV
Vertical	17475.055	55.09	-1.86	53.23	68.2	-14.97	PK
Vertical	17475.055	44.40	-1.86	42.54	54	-11.46	AV
Horizontal	6039.164	73.04	-18.93	54.11	68.2	-14.09	PK
Horizontal	6039.164	59.86	-18.93	40.93	54	-13.07	AV
Horizontal	11650.003	64.67	-8.92	55.75	74	-18.25	PK
Horizontal	11650.003	49.92	-8.92	41.00	54	-13.00	AV
Horizontal	17475.180	56.94	-1.86	55.08	68.2	-13.12	PK
Horizontal	17475.180	44.13	-1.86	42.27	54	-11.73	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode :	TX (5.8G) -- 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	4679.102	74.40	-20.24	54.16	74	-19.84	PK
Vertical	4679.102	59.71	-20.24	39.47	54	-14.53	AV
Vertical	11510.045	63.11	-8.81	54.30	74	-19.70	PK
Vertical	11510.045	49.04	-8.81	40.23	54	-13.77	AV
Vertical	17265.188	57.99	-3.01	54.98	68.2	-13.22	PK
Vertical	17265.188	45.00	-3.01	41.99	54	-12.01	AV
Horizontal	4679.010	72.98	-20.24	52.74	74	-21.26	PK
Horizontal	4679.010	59.74	-20.24	39.50	54	-14.50	AV
Horizontal	11510.133	63.53	-8.81	54.72	74	-19.28	PK
Horizontal	11510.133	49.84	-8.81	41.03	54	-12.97	AV
Horizontal	17265.074	57.05	-3.01	54.04	68.2	-14.16	PK
Horizontal	17265.074	44.01	-3.01	41.00	54	-13.00	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.037	74.59	-18.93	55.66	68.2	-12.54	PK
Vertical	6039.037	59.95	-18.93	41.01	54	-12.99	AV
Vertical	11590.082	64.71	-8.87	55.84	74	-18.16	PK
Vertical	11590.082	49.79	-8.87	40.92	54	-13.08	AV
Vertical	17385.138	59.52	-2.35	57.17	68.2	-11.03	PK
Vertical	17385.138	44.28	-2.35	41.93	54	-12.07	AV
Horizontal	6039.159	71.73	-18.93	52.79	68.2	-15.41	PK
Horizontal	6039.159	59.71	-18.93	40.78	54	-13.22	AV
Horizontal	11590.129	64.62	-8.87	55.75	74	-18.25	PK
Horizontal	11590.129	49.61	-8.87	40.74	54	-13.26	AV
Horizontal	17385.069	55.41	-2.35	53.06	68.2	-15.14	PK
Horizontal	17385.069	44.75	-2.35	42.40	54	-11.60	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode :	TX (5.8G) -- 802.11ax 80
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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 (5775 MHz)-Above 1G							
Vertical	4679.002	71.88	-20.24	51.64	74	-22.36	PK
Vertical	4679.002	59.36	-20.24	39.12	54	-14.88	AV
Vertical	11550.134	60.77	-8.84	51.93	74	-22.07	PK
Vertical	11550.134	49.65	-8.84	40.81	54	-13.19	AV
Vertical	17325.078	58.97	-2.68	56.29	68.2	-11.91	PK
Vertical	17325.078	44.05	-2.68	41.37	54	-12.63	AV
Horizontal	4679.050	73.82	-20.24	53.58	74	-20.42	PK
Horizontal	4679.050	59.27	-20.24	39.03	54	-14.97	AV
Horizontal	11550.125	60.85	-8.84	52.01	74	-21.99	PK
Horizontal	11550.125	49.91	-8.84	41.07	54	-12.93	AV
Horizontal	17325.099	55.67	-2.68	52.99	68.2	-15.21	PK
Horizontal	17325.099	44.49	-2.68	41.81	54	-12.19	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

8. Power Spectral Density Test

8.1 Block Diagram Of Test Setup



8.2 Limit

For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.3 Test Procedure

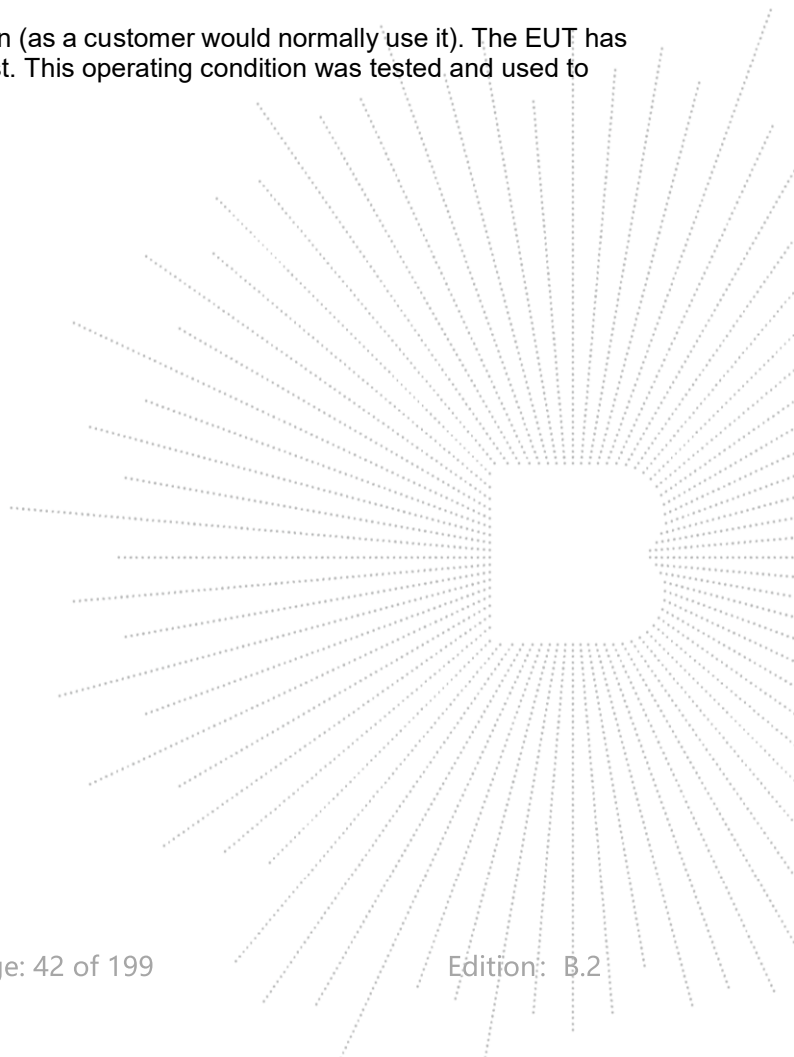
For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, 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 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 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since RBW=100 KHz is available on nearly all spectrum analyzers.

8.4 EUT Operating Conditions

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



8.5 Test Result

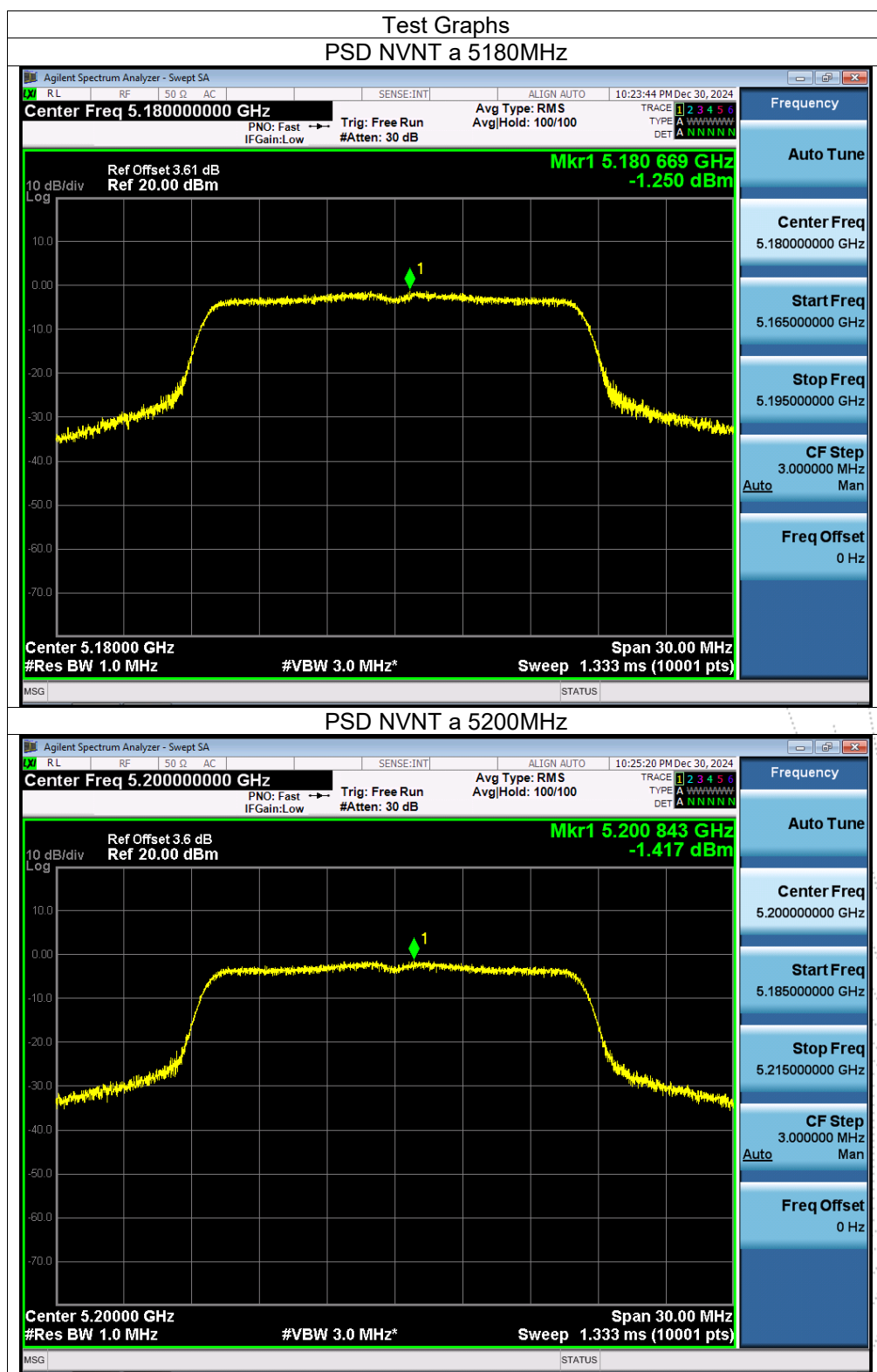
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 12V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

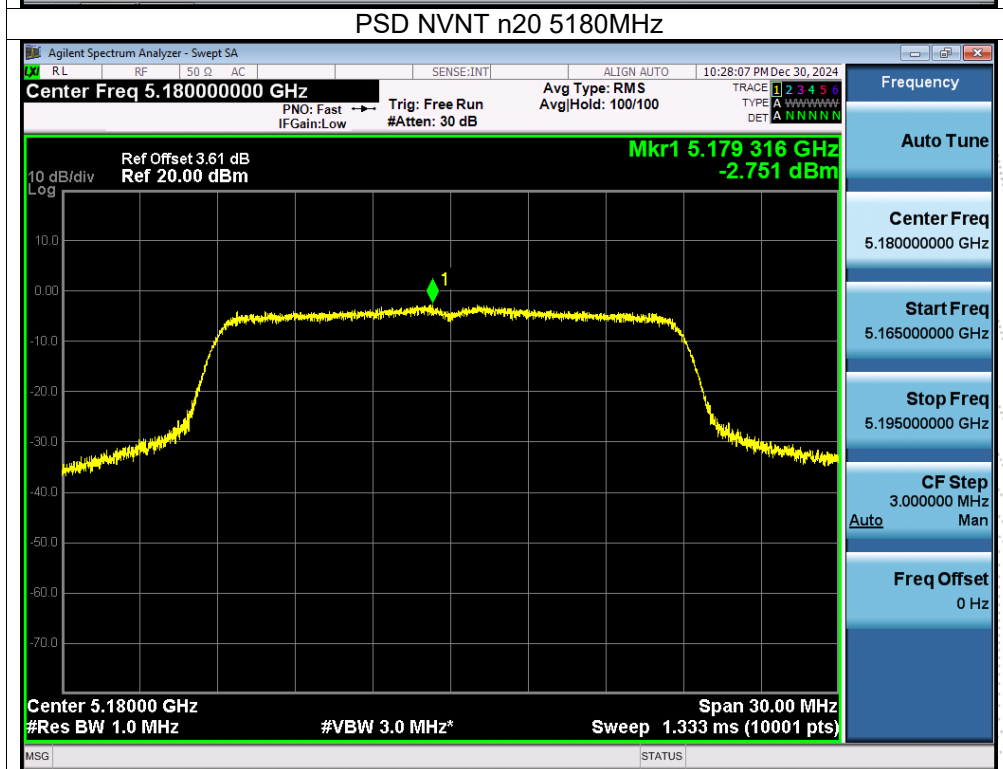
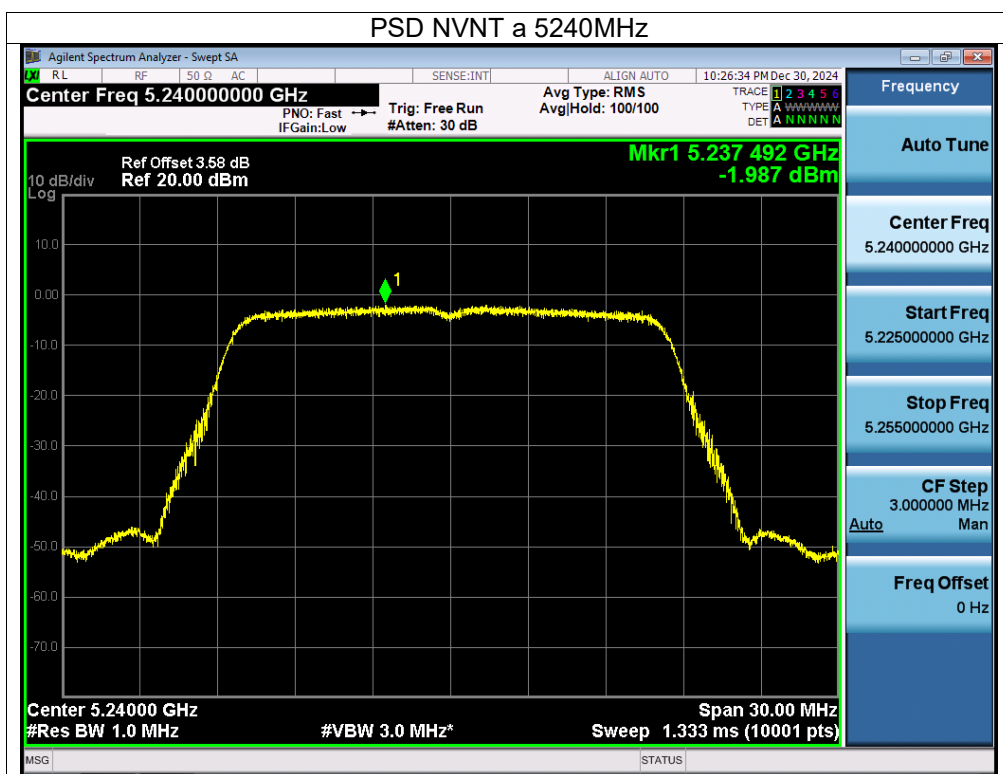
Condition	Mode	Frequency (MHz)	Measured Power Density (dBm/MHz)				Limit (dBm/MHz)	Result
			ANT A	ANT B	ANT C	Total		
NVNT	a	5180	-2.42	-1.25	-1.97	/	17	PASS
NVNT	a	5200	-2.37	-1.42	-1.71	/	17	PASS
NVNT	a	5240	-2.26	-1.99	-1.49	/	17	PASS
NVNT	n20	5180	-3.72	-2.75	-3.76	1.39	13.75	PASS
NVNT	n20	5200	-3.85	-2.87	-4.06	1.21	13.75	PASS
NVNT	n20	5240	-4.51	-3.08	-3.62	1.07	13.75	PASS
NVNT	n40	5190	-7.22	-6.41	-6.34	-1.87	13.75	PASS
NVNT	n40	5230	-8.21	-7.14	-6.46	-2.44	13.75	PASS
NVNT	ac20	5180	-3.76	-2.95	-3.91	1.25	13.75	PASS
NVNT	ac20	5200	-4.04	-3.21	-3.97	1.05	13.75	PASS
NVNT	ac20	5240	-4.73	-3.12	-4.13	0.83	13.75	PASS
NVNT	ac40	5190	-7.55	-6.69	-6.49	-2.11	13.75	PASS
NVNT	ac40	5230	-8.55	-7.39	-6.84	-2.77	13.75	PASS
NVNT	ac80	5210	-12.41	-11.98	-11.08	-7.02	13.75	PASS
NVNT	ax20	5180	-3.9	-2.93	-4.04	1.18	13.75	PASS
NVNT	ax20	5200	-4.31	-2.97	-3.95	1.07	13.75	PASS
NVNT	ax20	5240	-4.56	-3.36	-3.95	0.84	13.75	PASS
NVNT	ax40	5190	-7.07	-6.21	-6.16	-1.69	13.75	PASS
NVNT	ax40	5230	-7.6	-6.59	-5.73	-1.80	13.75	PASS
NVNT	ax80	5210	-11.14	-11.11	-10.22	-6.03	13.75	PASS

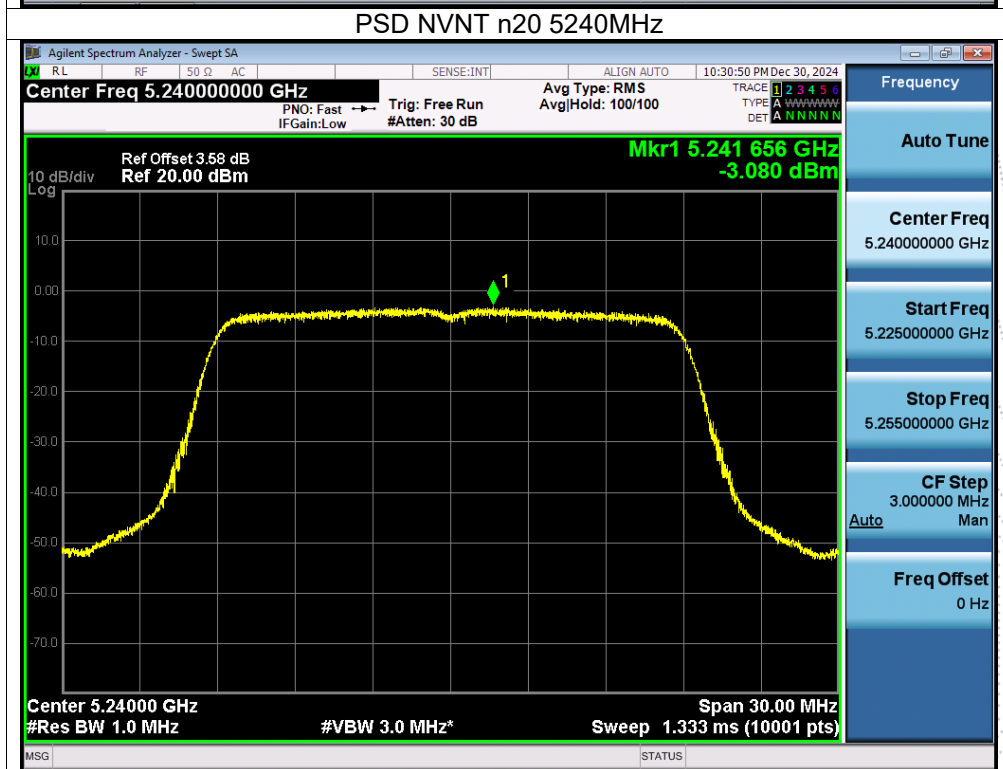
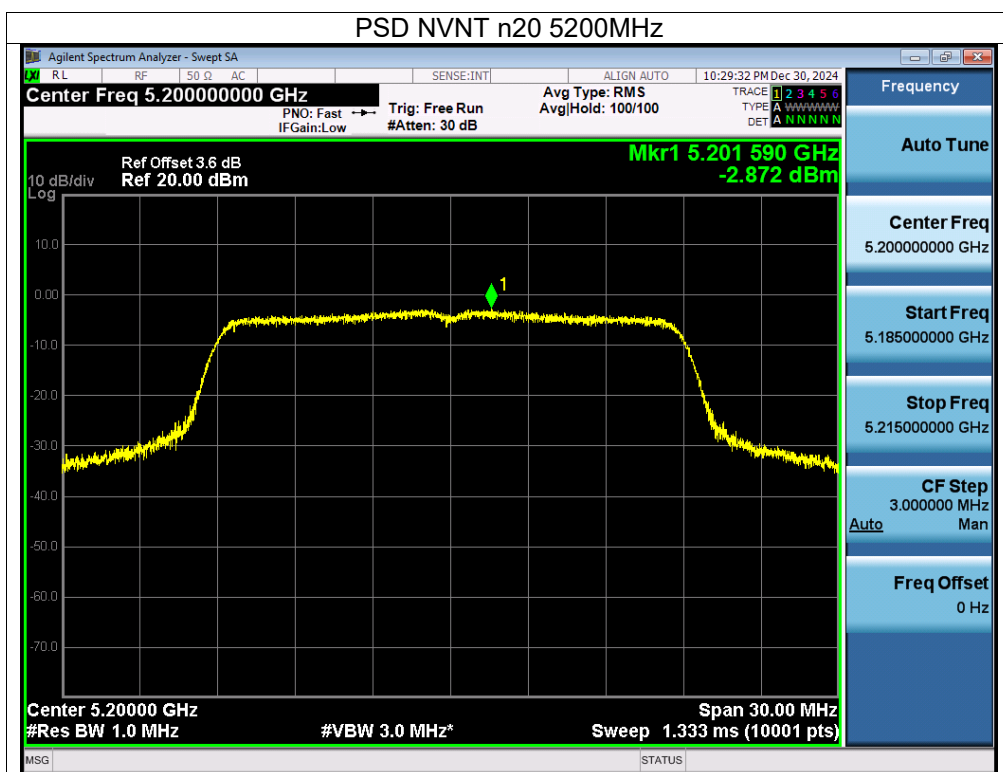
Note:

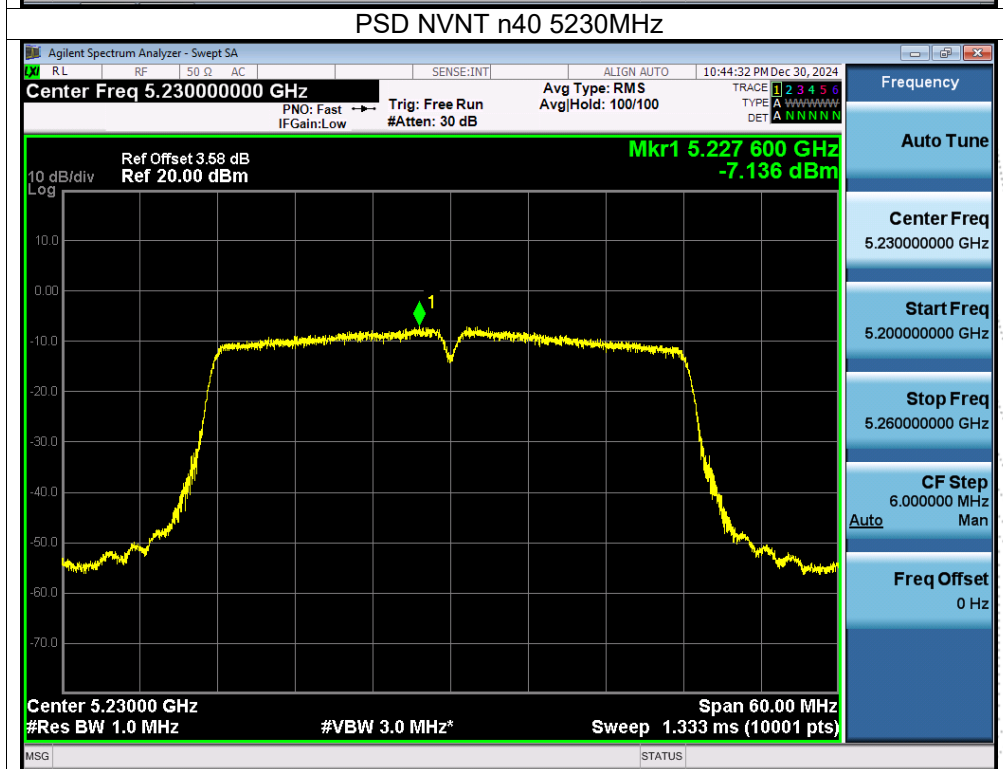
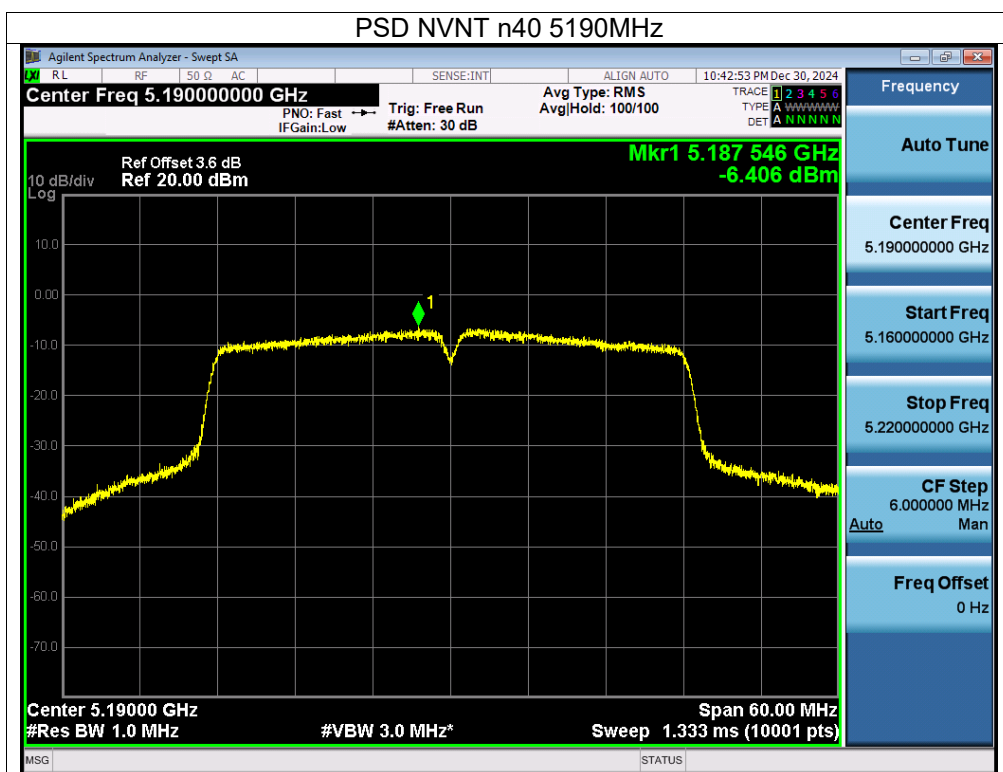
Antenna A gain: 4.48 dBi, Antenna B gain: 4.46 dBi, Antenna C gain: 4.25 dBi, Directional gain=[GainANT + 10 log(NANT/NSS) dBi] =9.25 dbi>6dbi
Limit=17-(9.25-6)=13.75 dbm

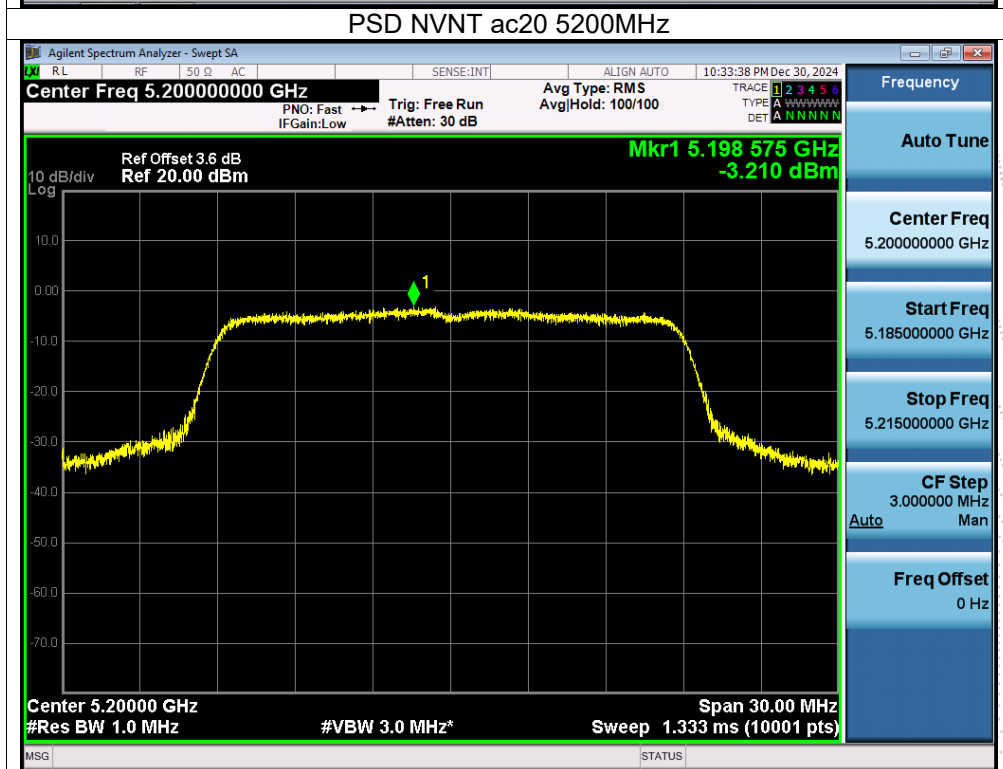
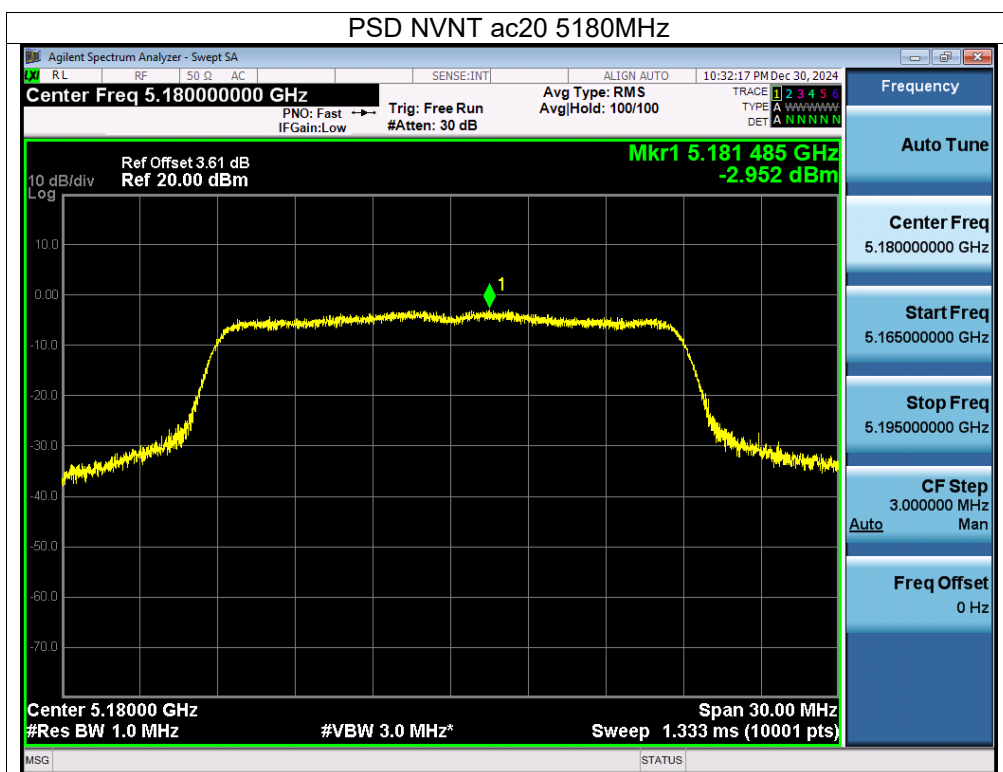
Note: A(B&C) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

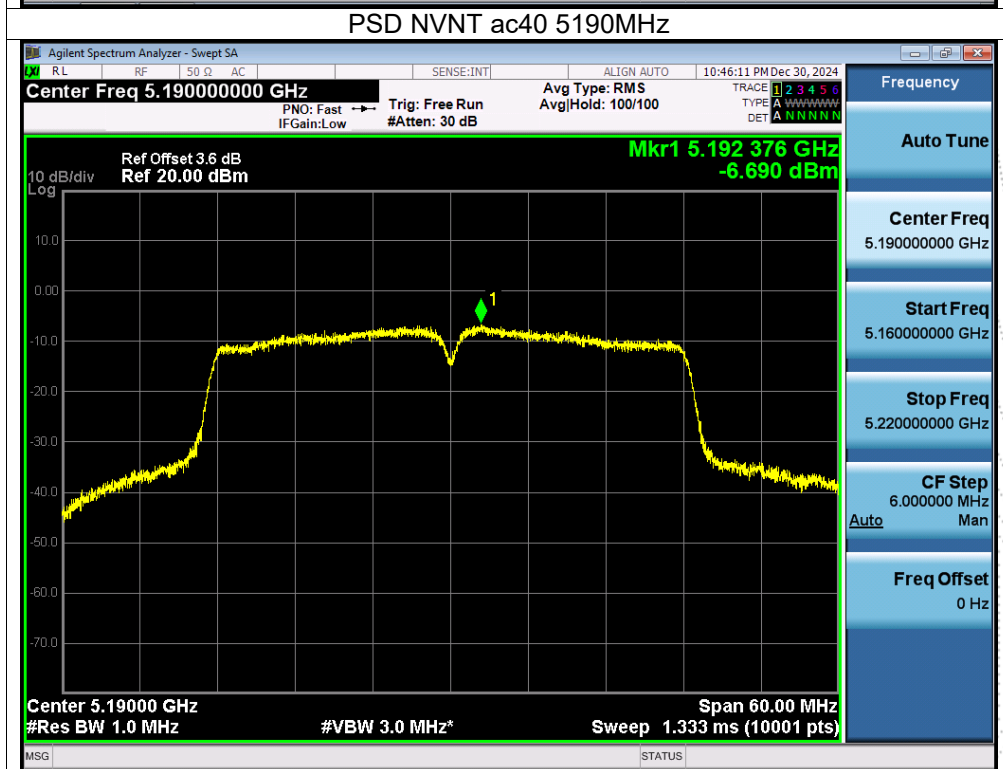
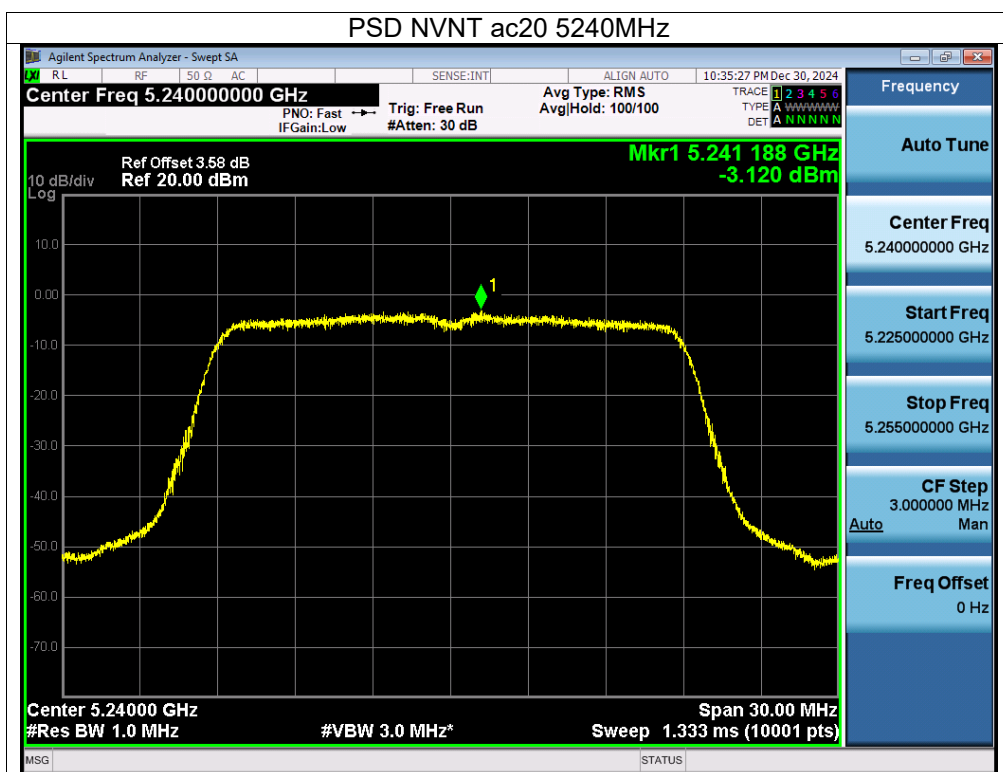


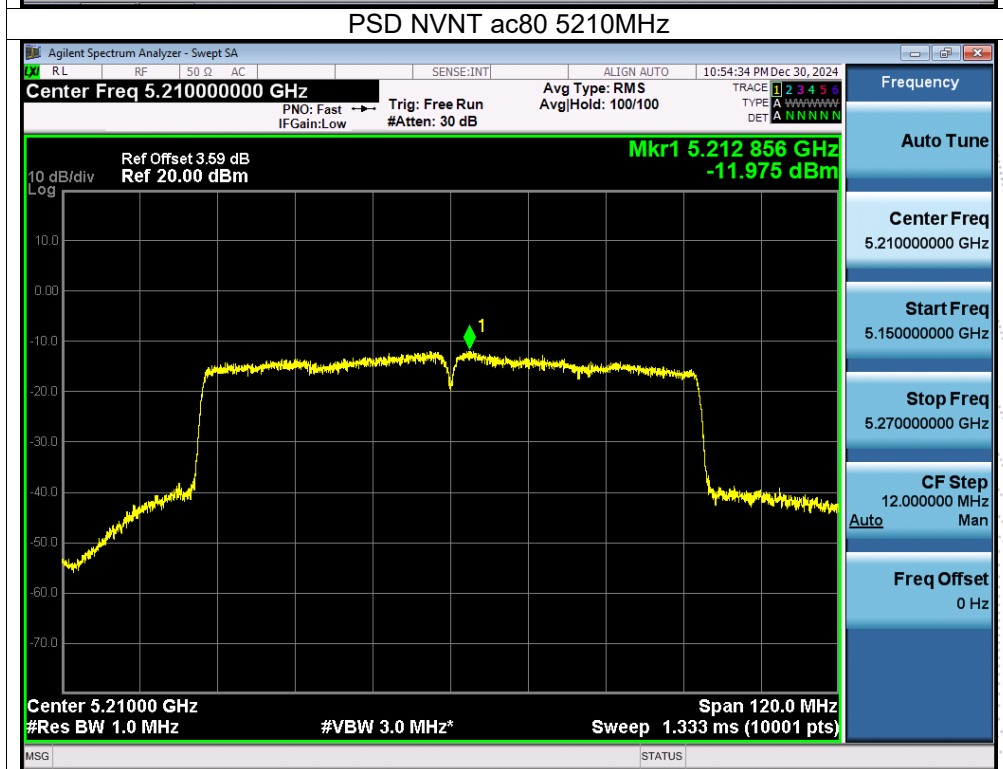
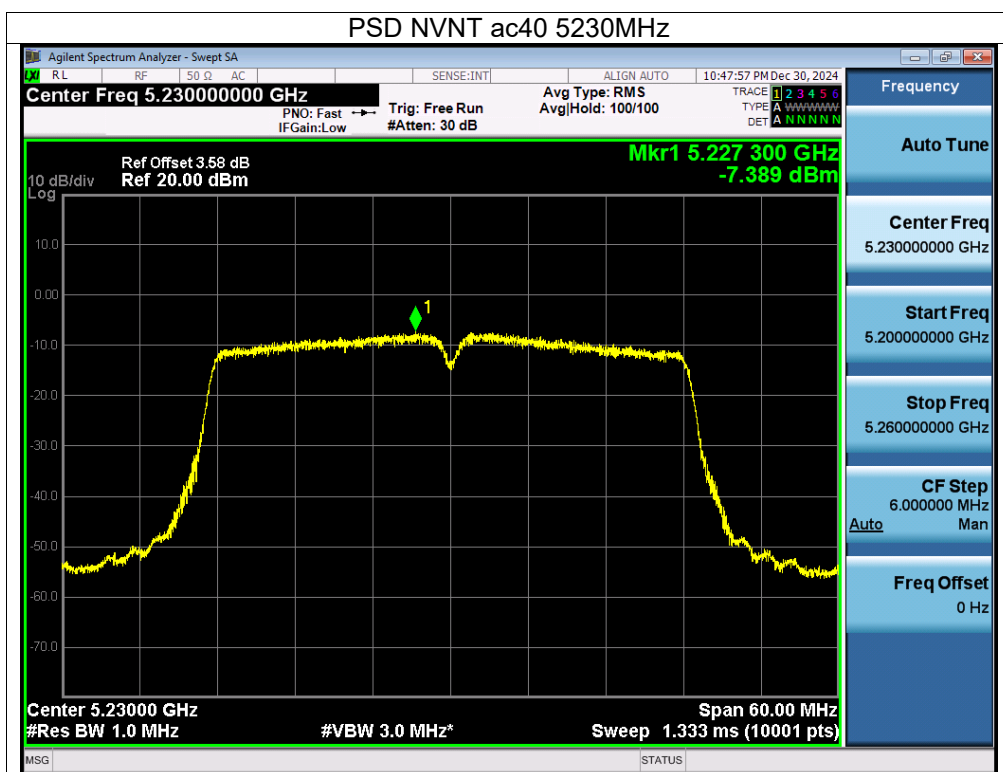


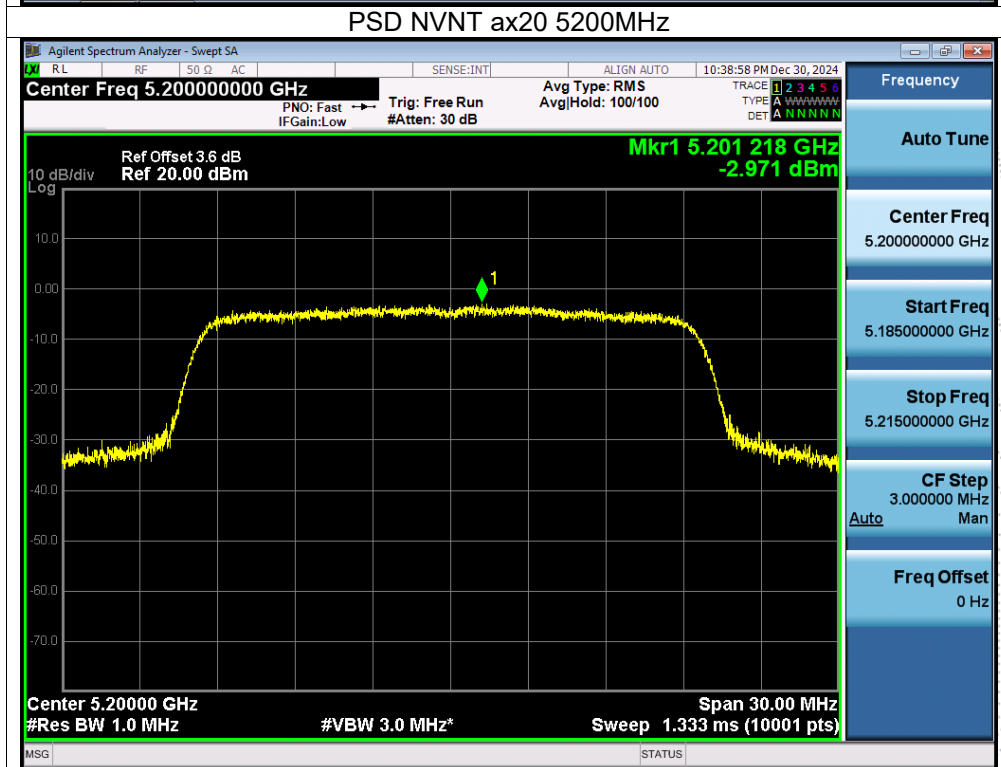
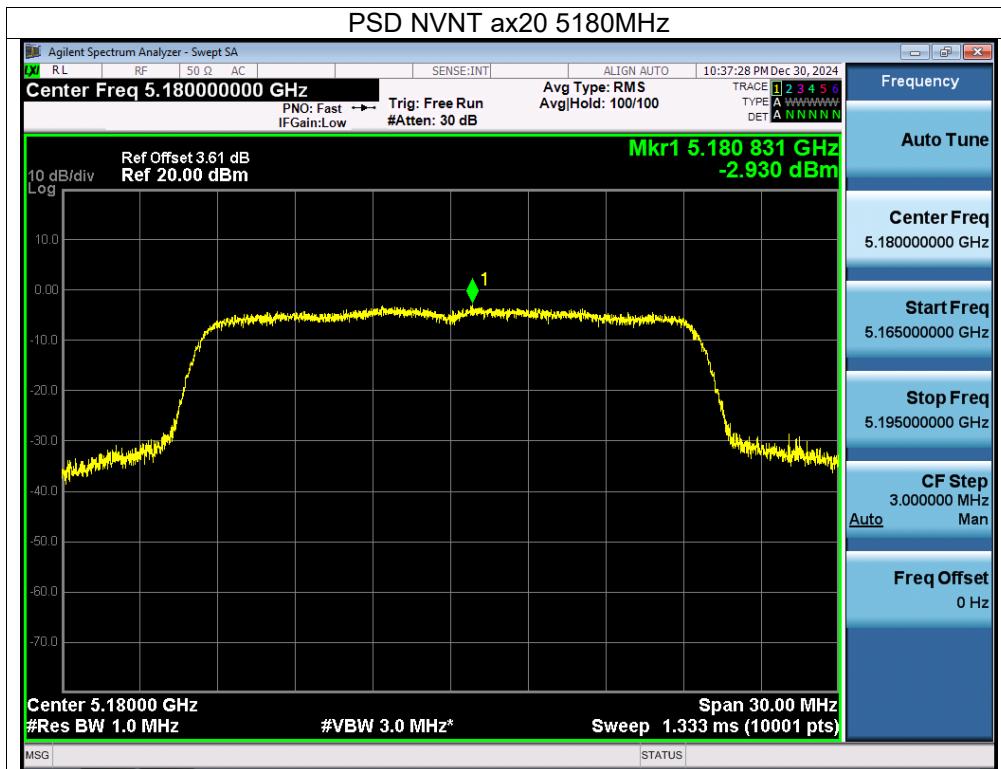


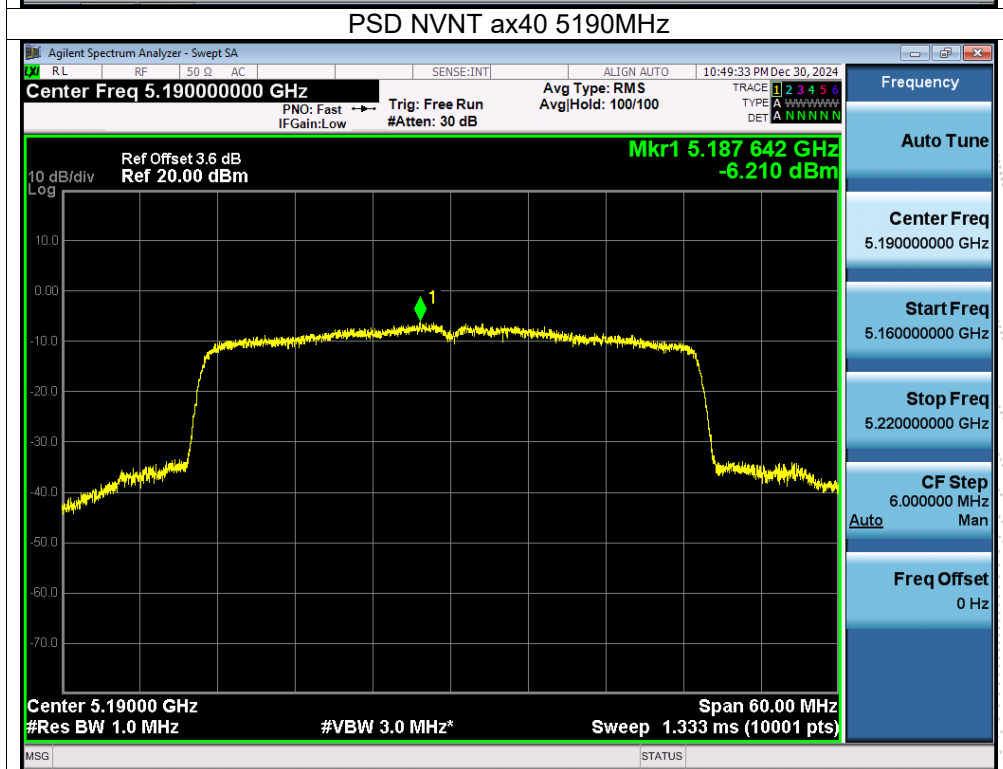
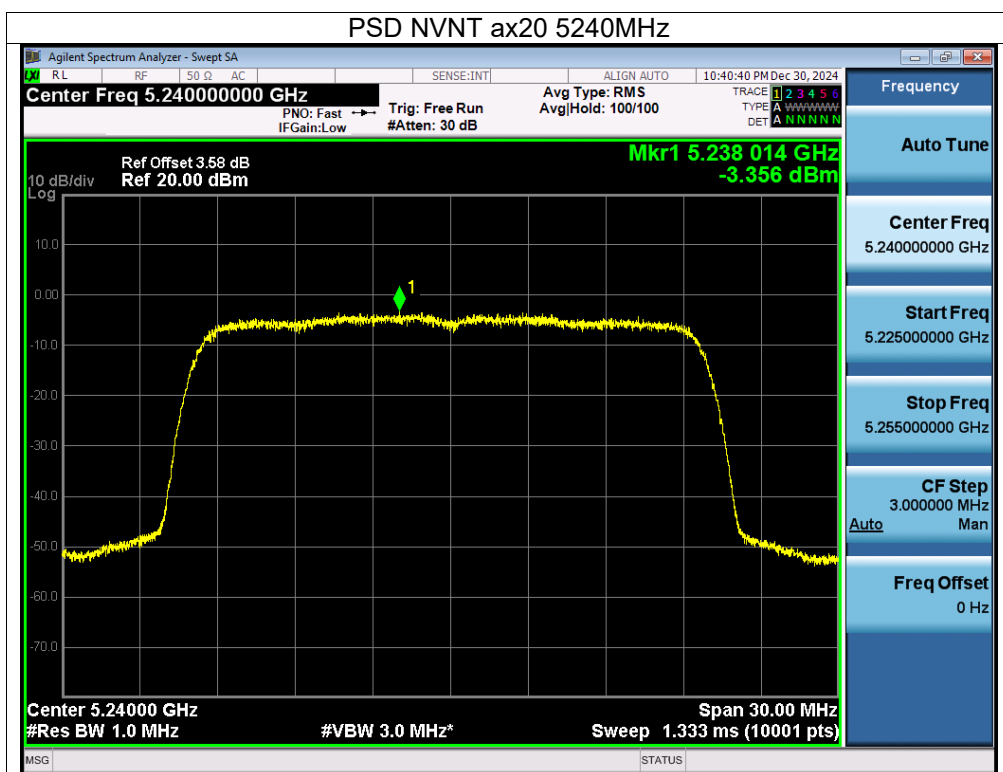


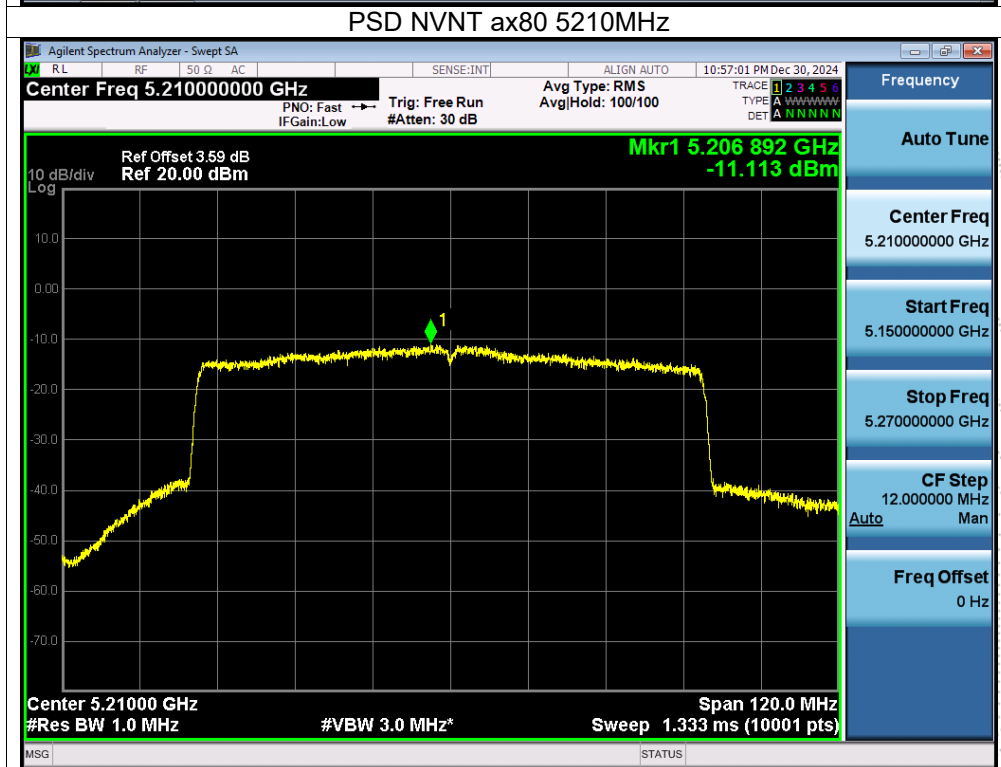
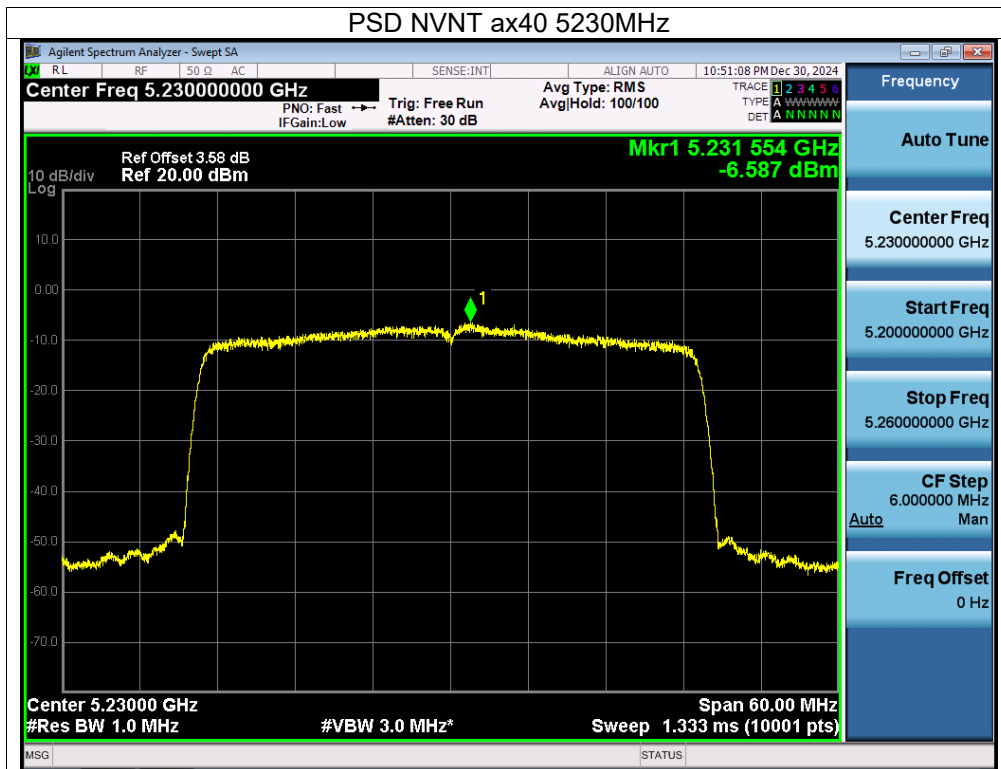












Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 12V
Test Mode:	TX Frequency U-NII-3 (5745-5825MHz)		

Condi- tion	Mode	Fre- quency (MHz)	Conducted PSD (dBm/510KHz)			Conducted PSD (dBm/500KHz)					Ver- dict
			ANT A	ANT B	ANT C	ANT A	ANT B	ANT C	Total	Limit	
NVNT	a	5745	-5.2	-5.2	-4.54	-5.286	-5.286	-4.626	/	30	Pass
NVNT	a	5785	-5.43	-5.53	-4.56	-5.516	-5.616	-4.646	/	30	Pass
NVNT	a	5825	-6.53	-6.39	-6.28	-6.616	-6.476	-6.366	/	30	Pass
NVNT	n20	5745	-6.79	-6.45	-5.92	-6.876	-6.536	-6.006	-1.687	26.75	Pass
NVNT	n20	5785	-6.78	-6.9	-6.04	-6.866	-6.986	-6.126	-1.871	26.75	Pass
NVNT	n20	5825	-7.54	-7.92	-7.77	-7.626	-8.006	-7.856	-3.055	26.75	Pass
NVNT	n40	5755	-11.13	-11.28	-10.41	-11.216	-11.366	-10.496	-6.238	26.75	Pass
NVNT	n40	5795	-11.56	-11.4	-10.73	-11.646	-11.486	-10.816	-6.530	26.75	Pass
NVNT	ac20	5745	-6.93	-6.66	-6.27	-7.016	-6.746	-6.356	-1.926	26.75	Pass
NVNT	ac20	5785	-7.03	-7.07	-6.1	-7.116	-7.156	-6.186	-2.024	26.75	Pass
NVNT	ac20	5825	-8	-8.08	-7.39	-8.086	-8.166	-7.476	-3.127	26.75	Pass
NVNT	ac40	5755	-11.6	-11.42	-10.75	-11.686	-11.506	-10.836	-6.556	26.75	Pass
NVNT	ac40	5795	-12.41	-11.79	-10.77	-12.496	-11.876	-10.856	-6.918	26.75	Pass
NVNT	ac80	5775	-15.62	-14.92	-14.81	-15.706	-15.006	-14.896	-10.417	26.75	Pass
NVNT	ax20	5745	-6.97	-6.86	-6.02	-7.056	-6.946	-6.106	-1.910	26.75	Pass
NVNT	ax20	5785	-7.48	-7.02	-6.36	-7.566	-7.106	-6.446	-2.244	26.75	Pass
NVNT	ax20	5825	-8.19	-7.92	-7.75	-8.276	-8.006	-7.836	-3.264	26.75	Pass
NVNT	ax40	5755	-11.27	-11.17	-9.94	-11.356	-11.256	-10.026	-6.065	26.75	Pass
NVNT	ax40	5795	-11.63	-11.02	-10.49	-11.716	-11.106	-10.576	-6.337	26.75	Pass
NVNT	ax80	5775	-15.29	-14.43	-14.59	-15.376	-14.516	-14.676	-10.069	26.75	Pass

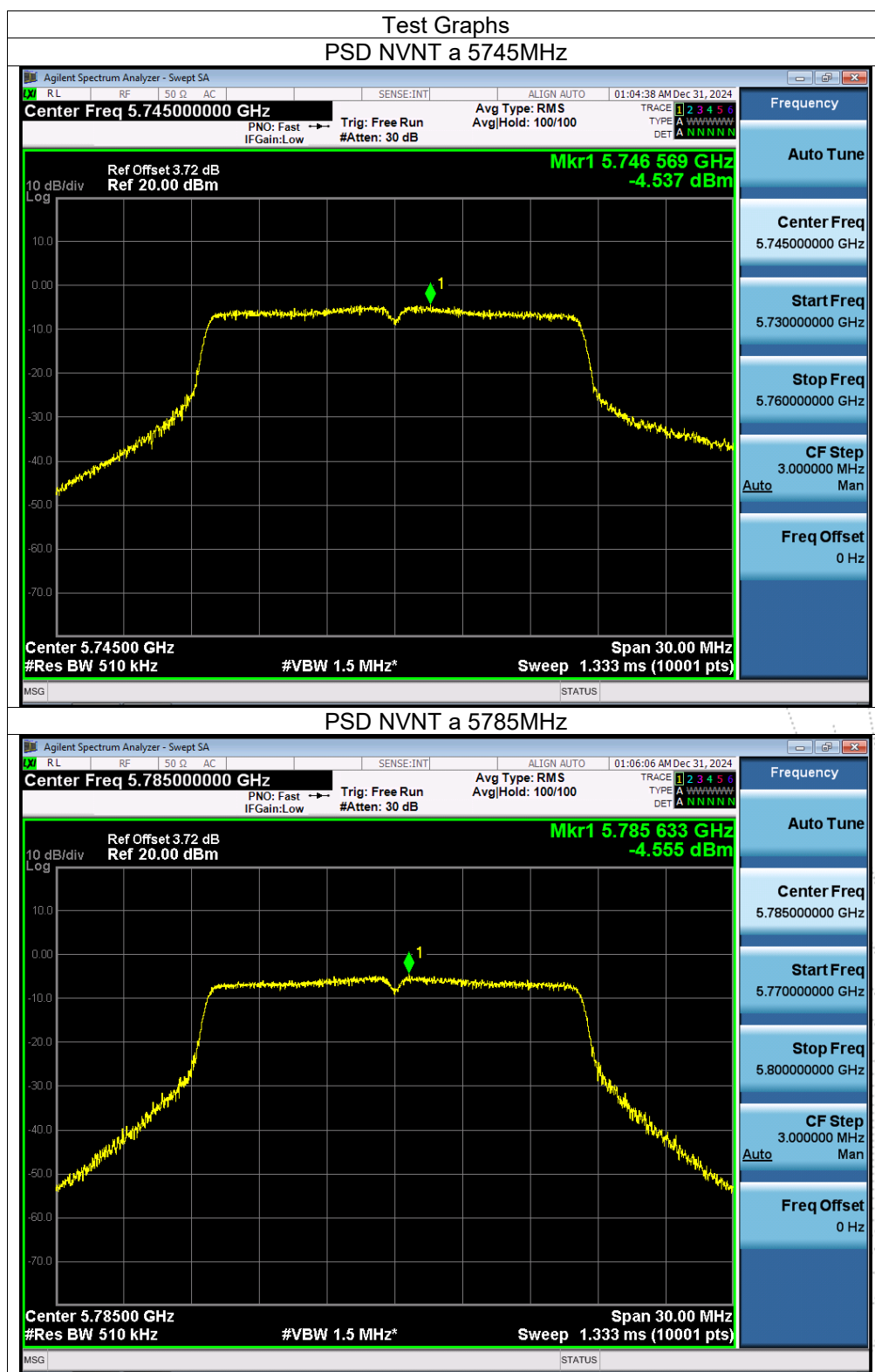
Note: Correction Factor = $10\log(500\text{KHz}/\text{RBW in measurement}) = -0.086$

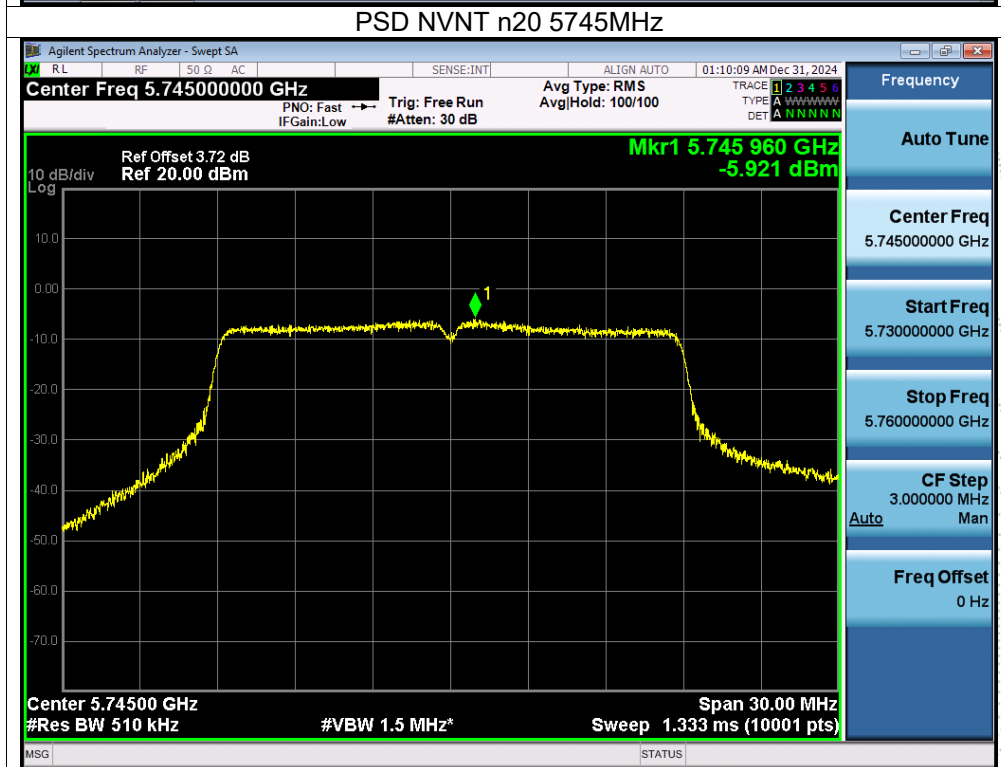
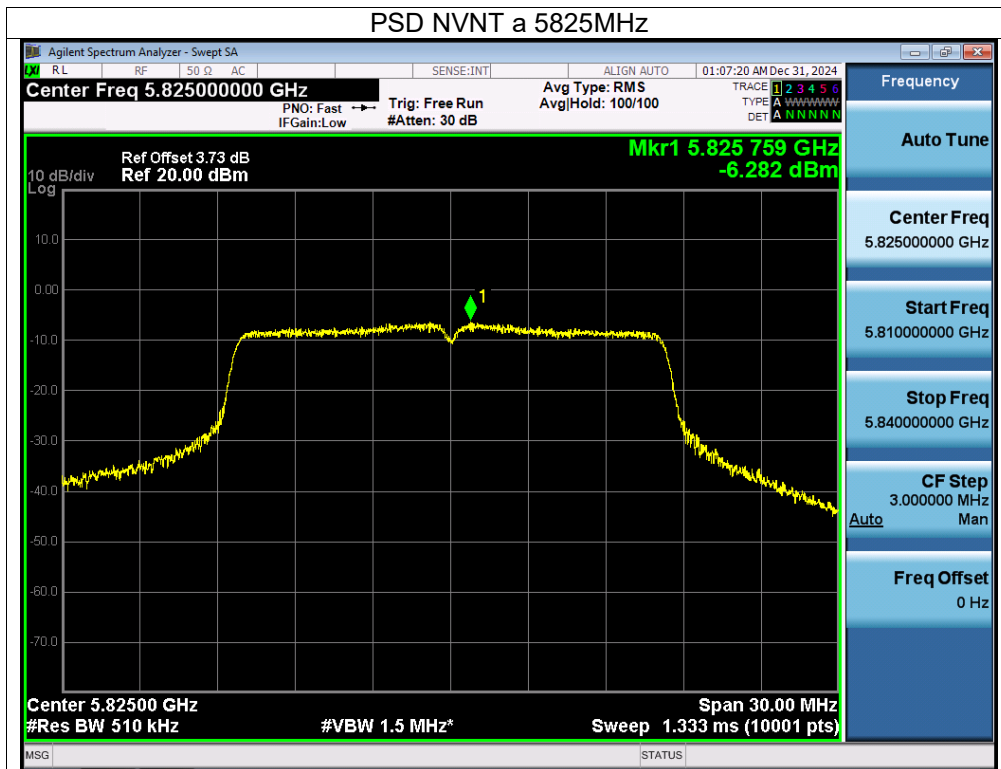
Note:

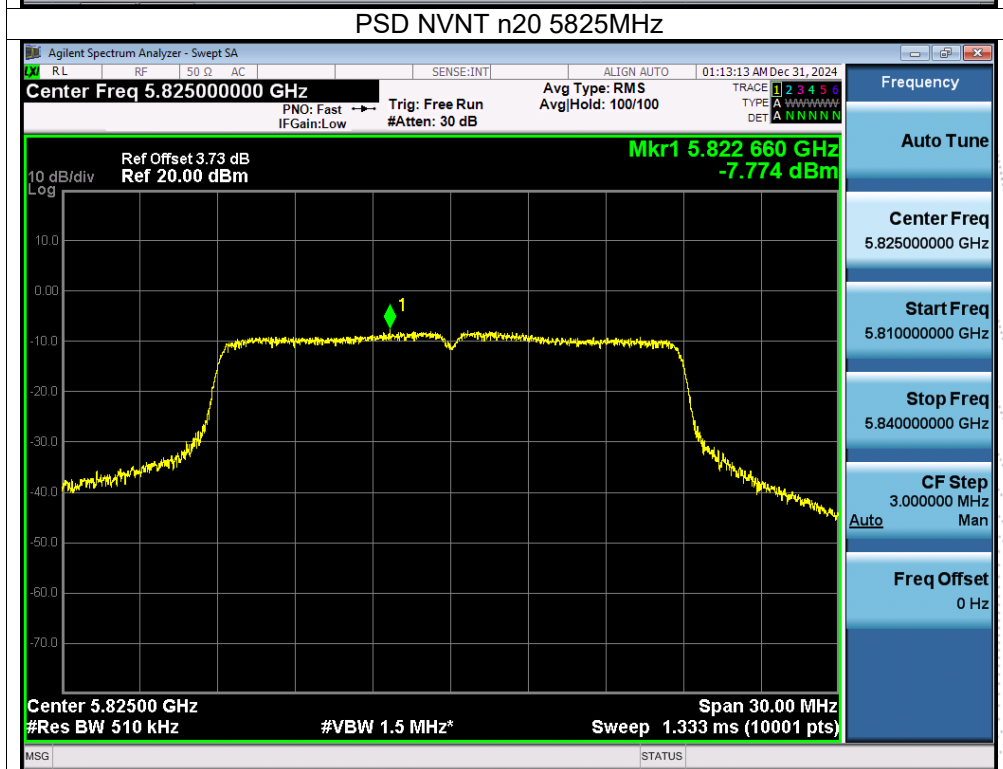
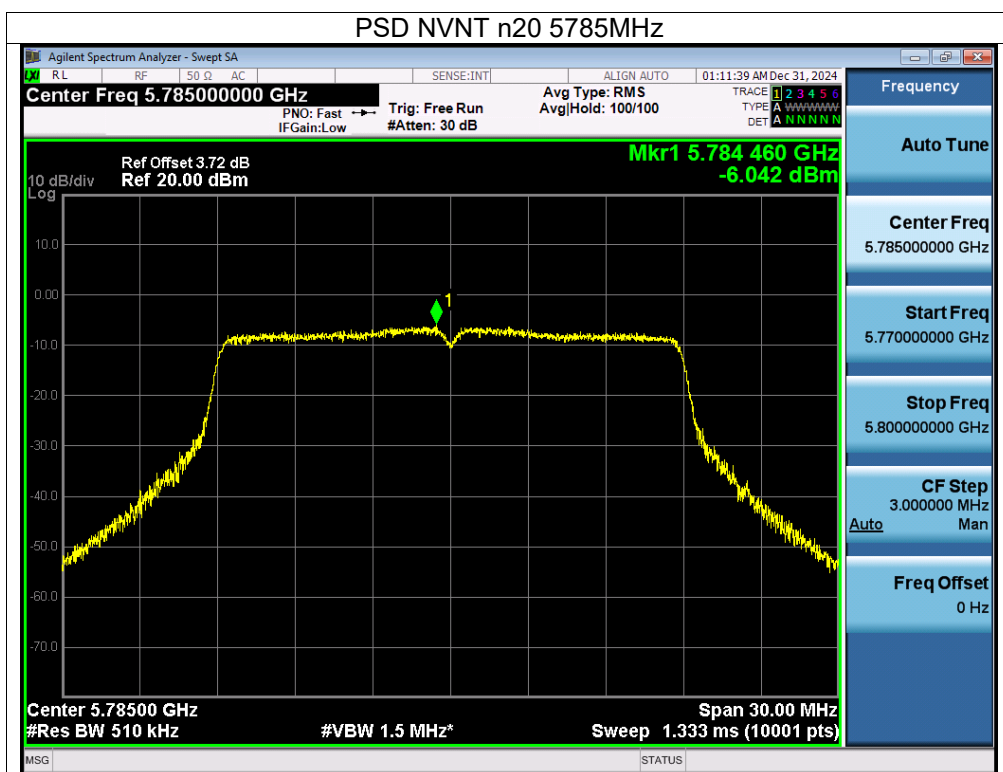
Antenna A gain: 4.48 dBi, Antenna B gain: 4.46 dBi, Antenna C gain: 4.25 dBi, Directional gain=[GainANT + 10 log(NANT/NSS) dBi] =9.25 dbi>6dbi

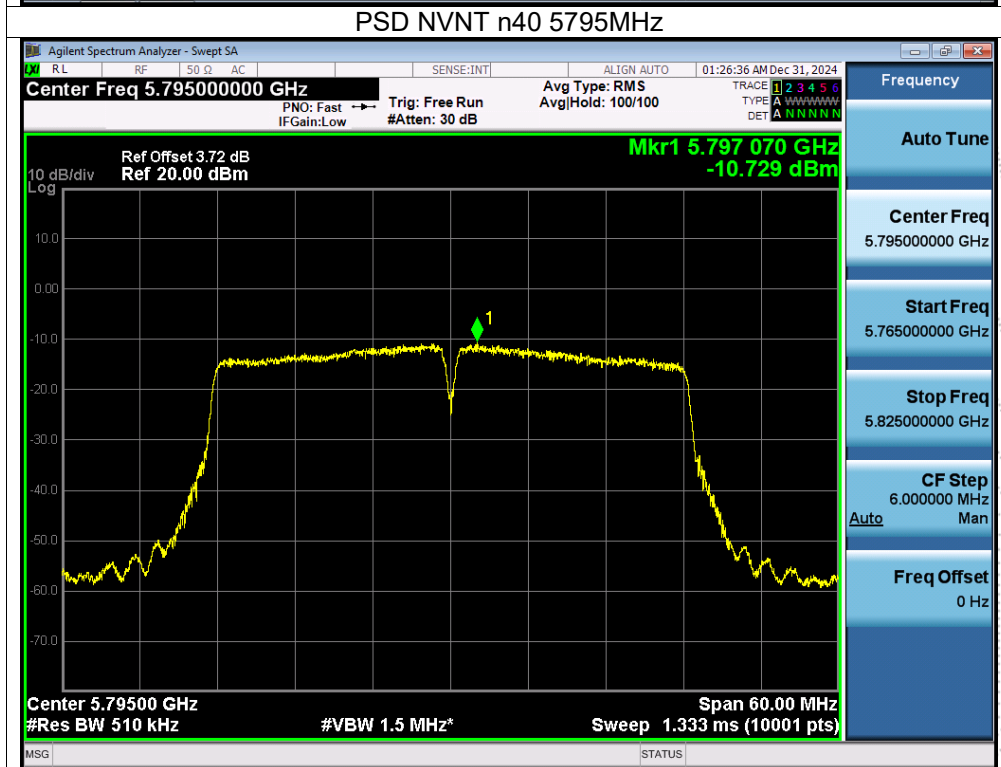
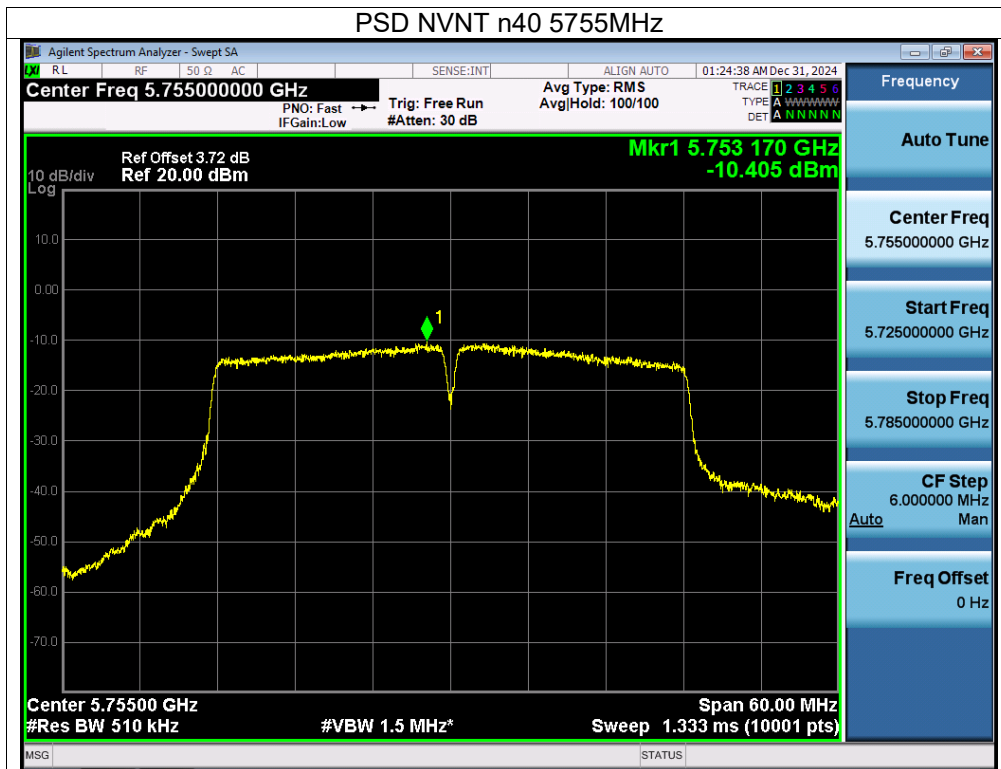
Limit=30-(9.25-6)=26.75 dbi

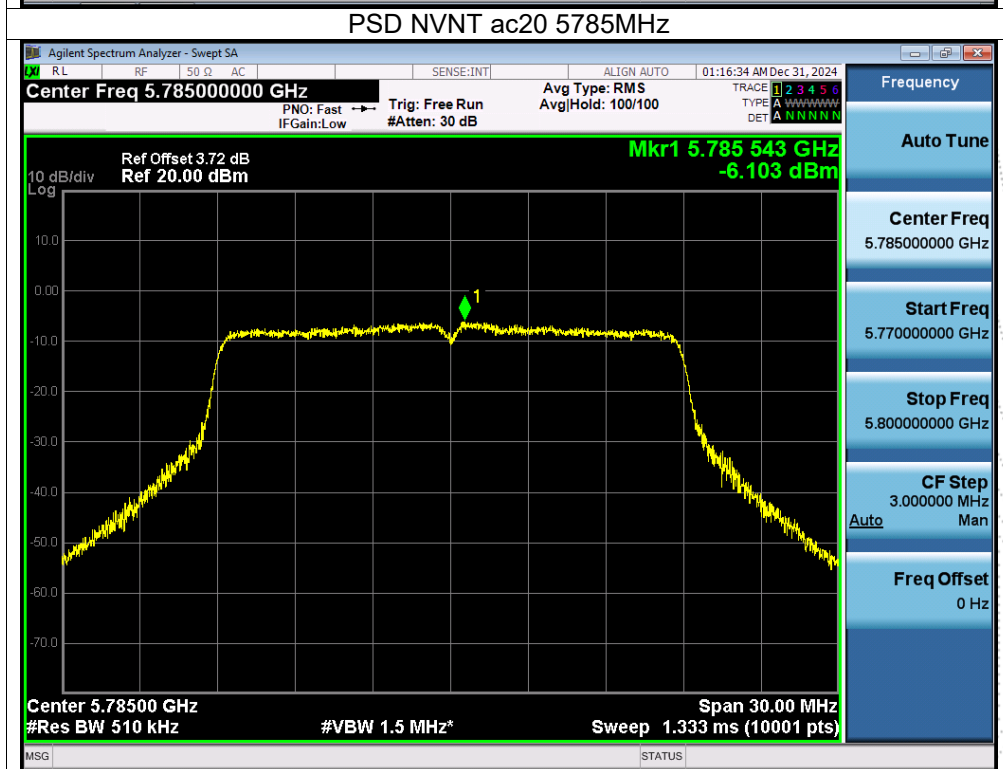
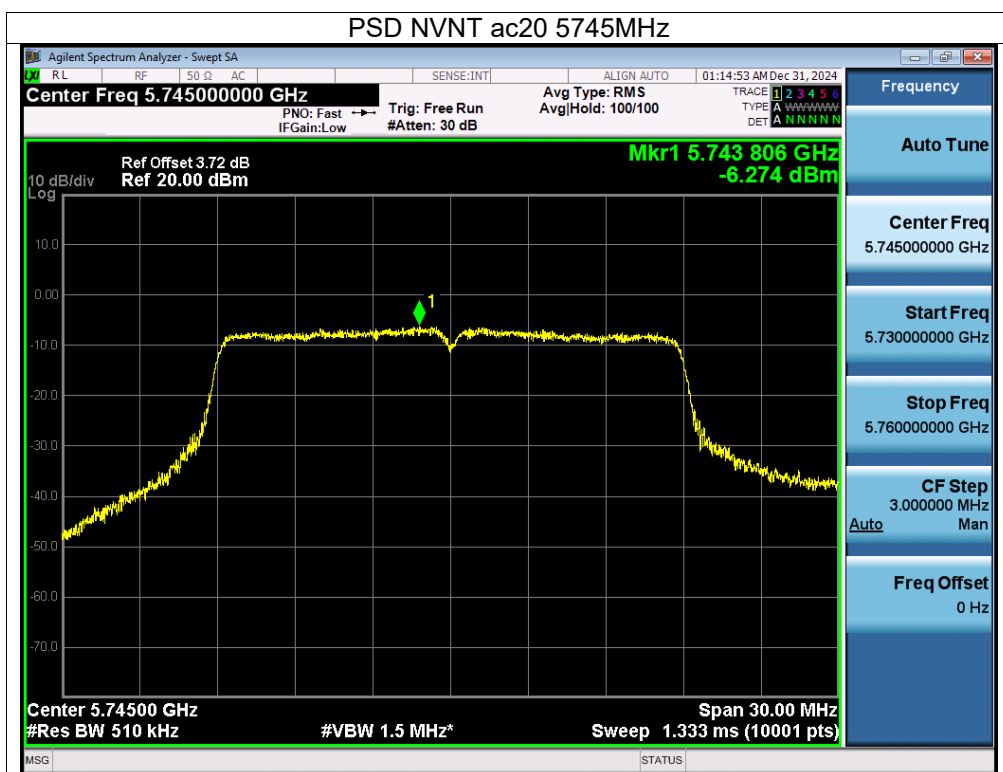
Note: A(B&C) Represent the value of antenna A and B, The worst data is Antenna C, only shown Antenna C Plot.

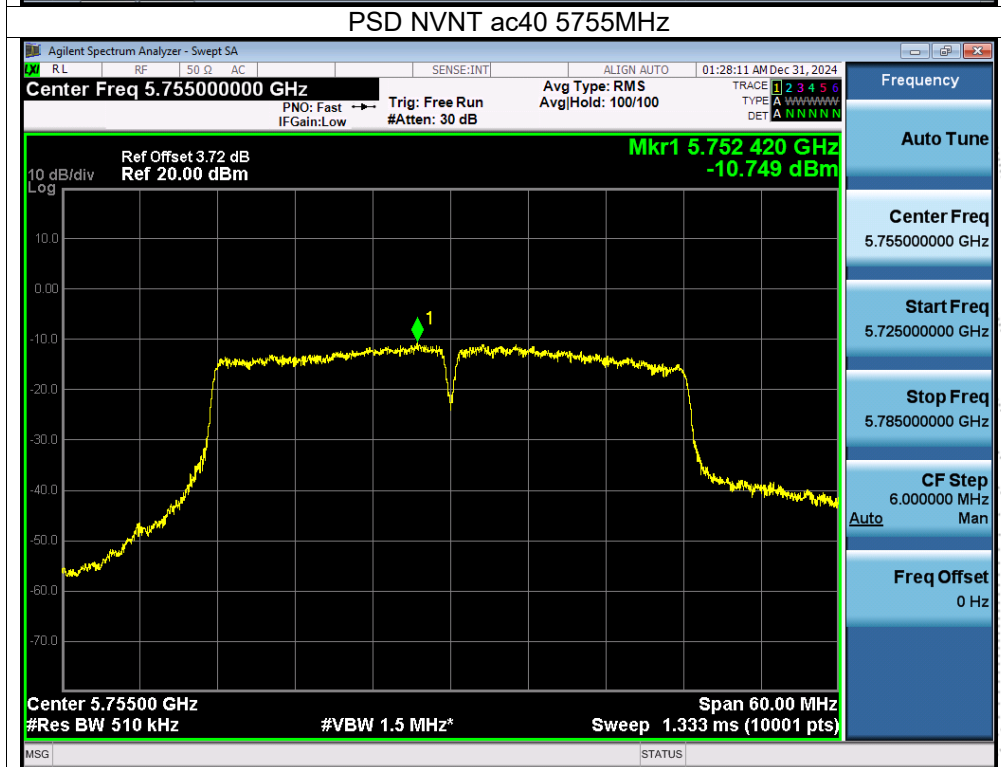
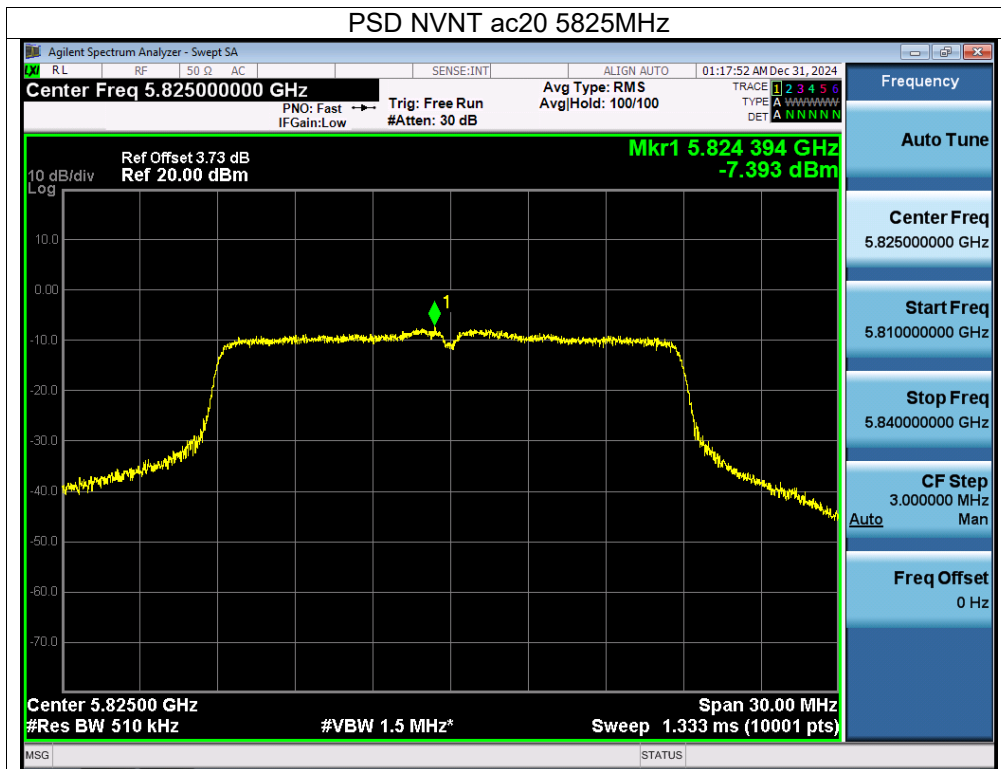


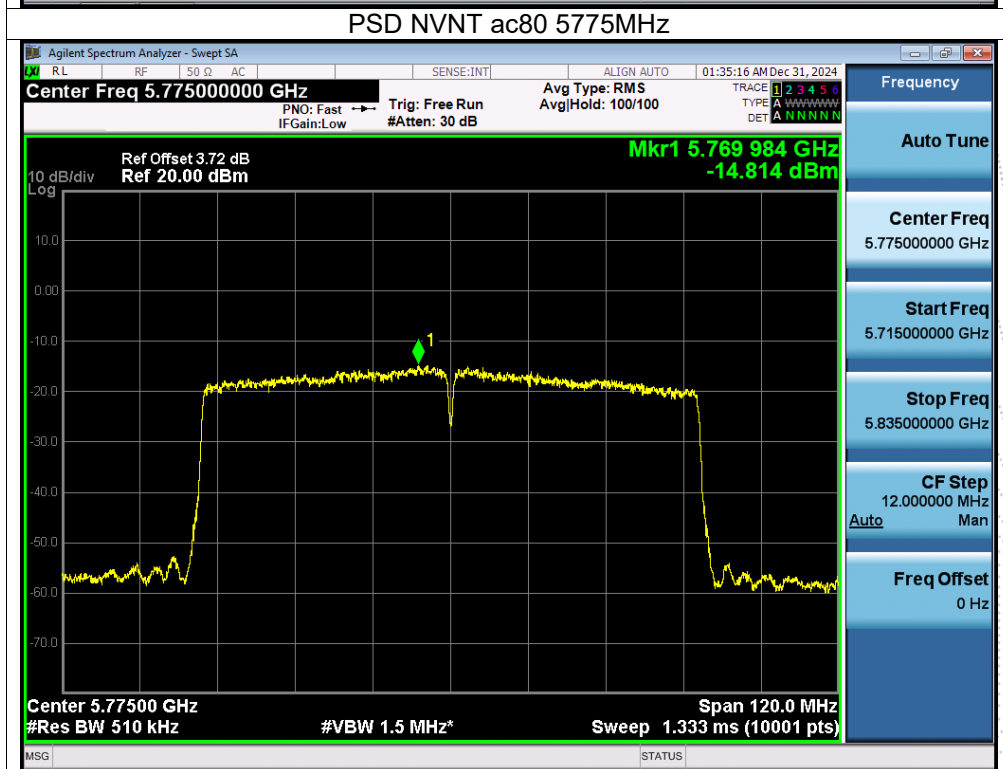
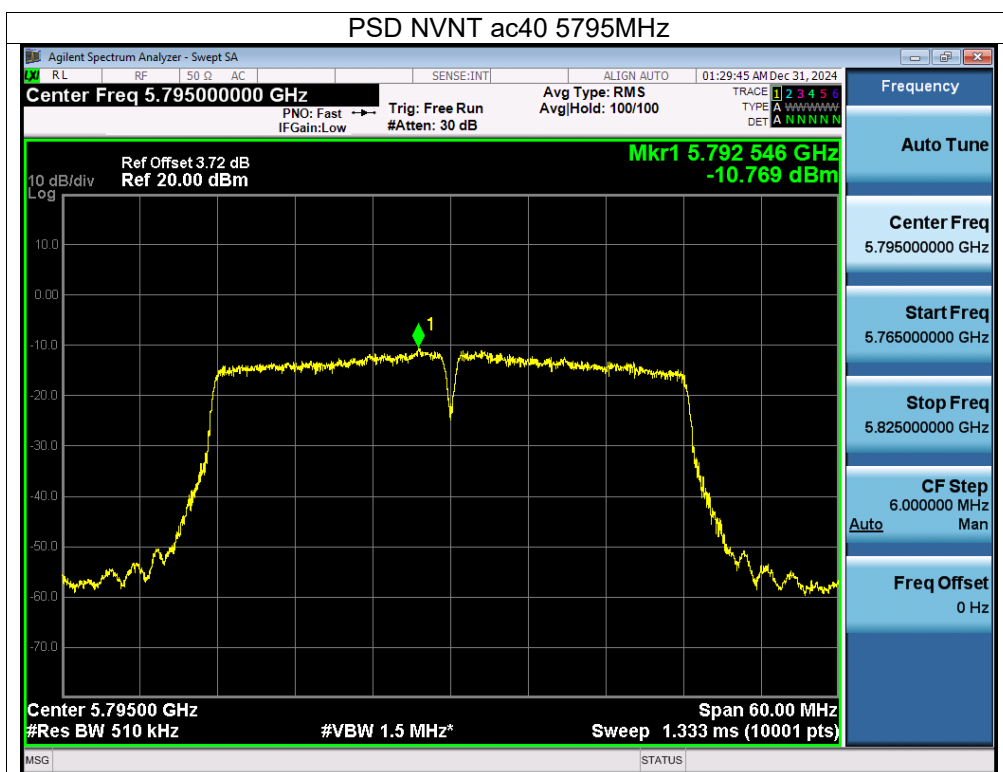


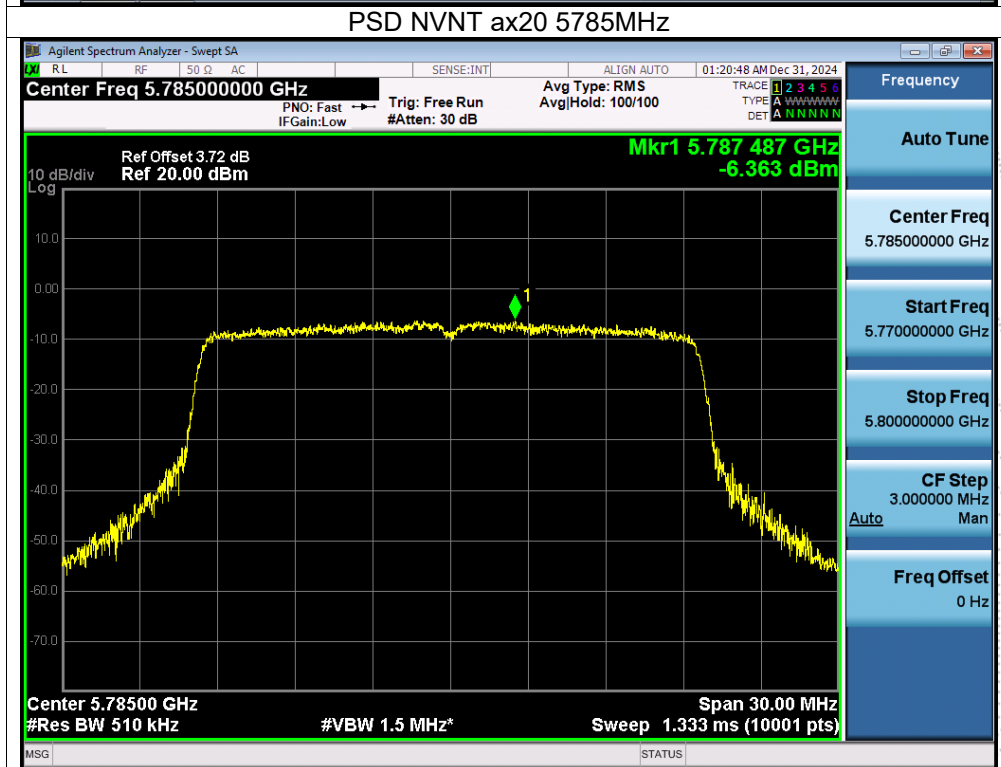
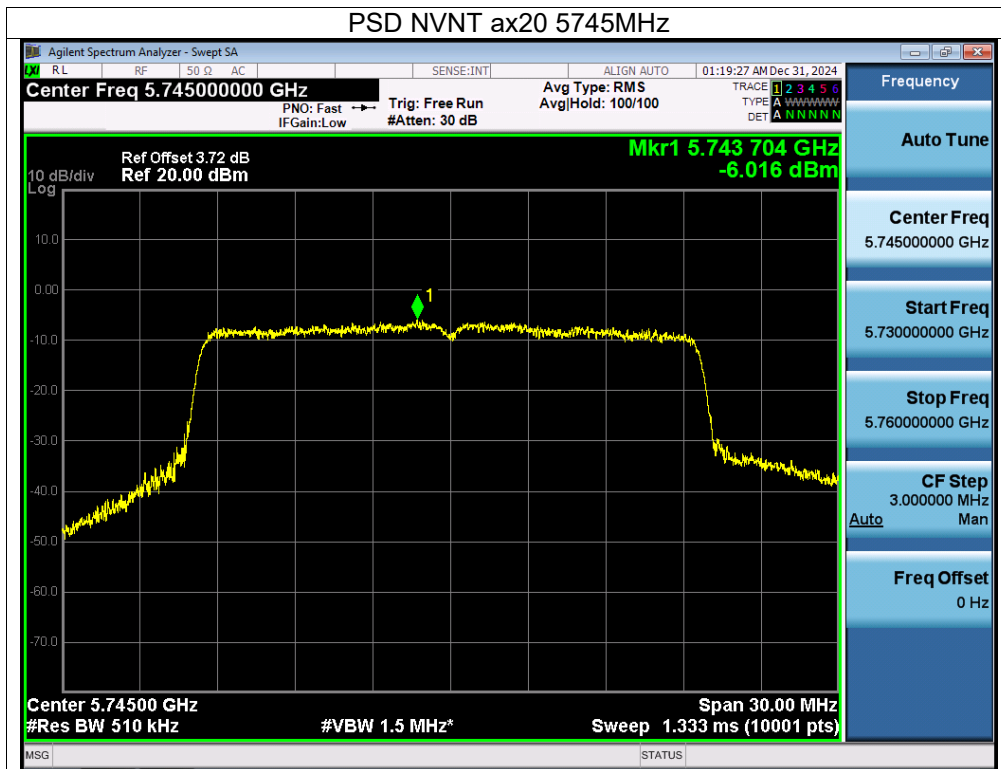


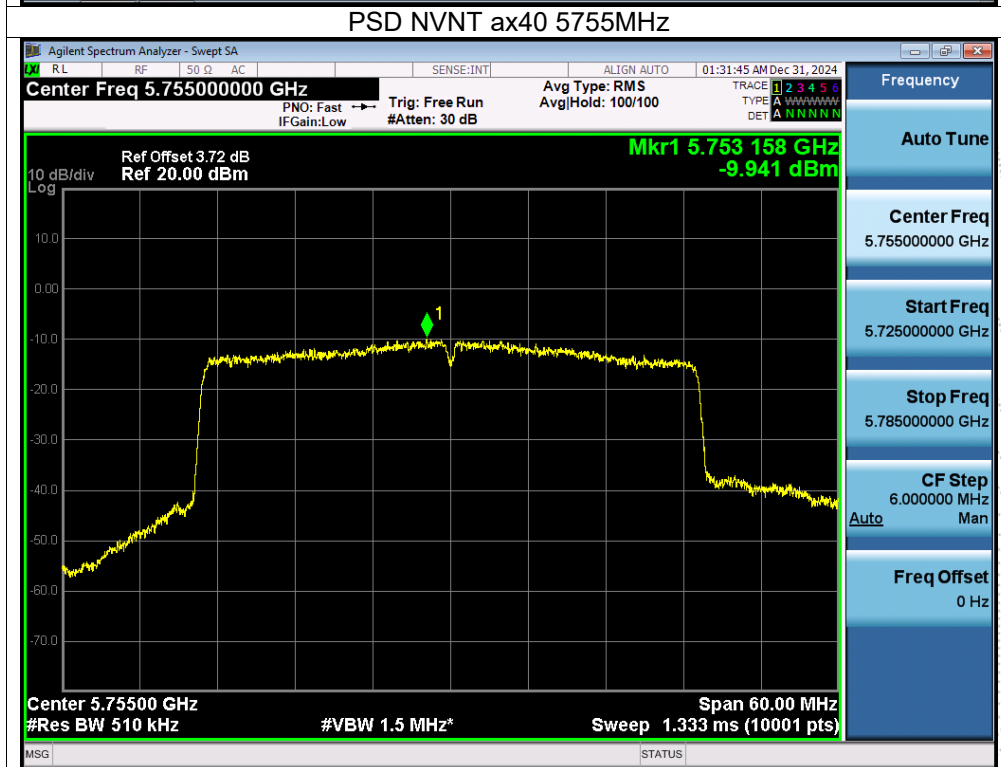
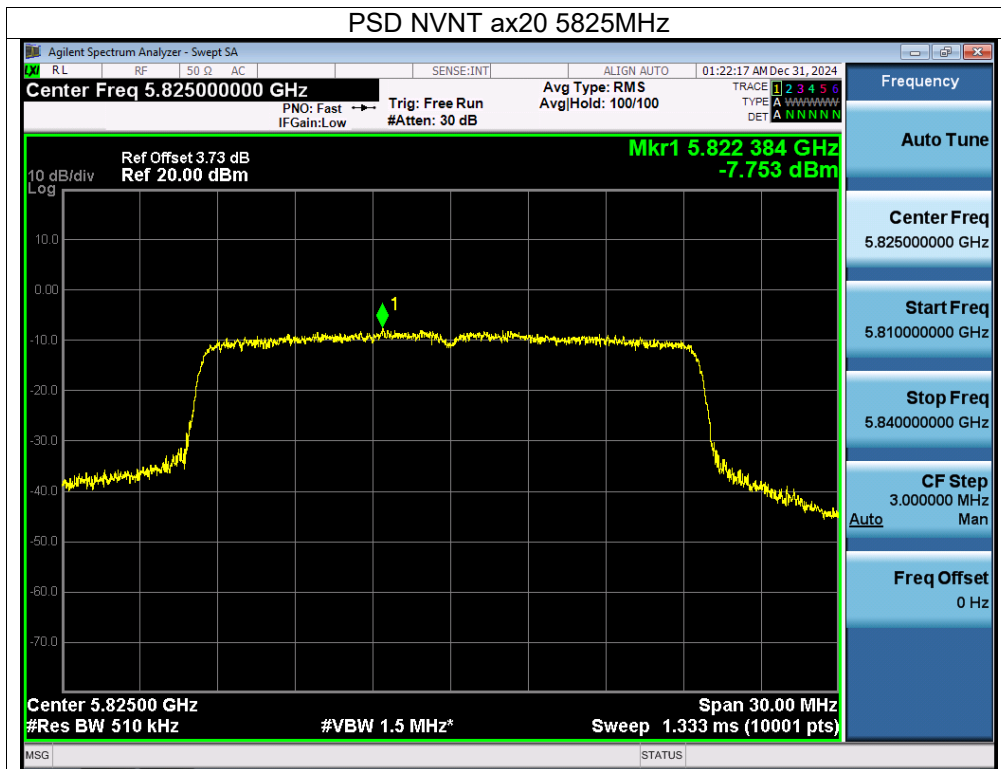


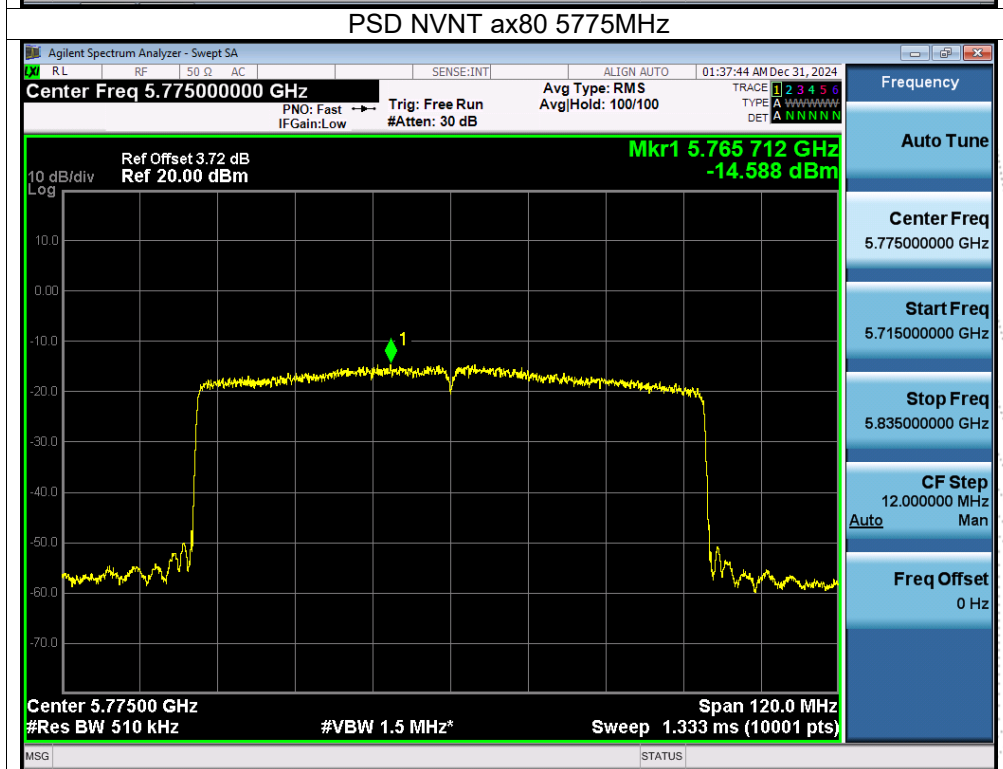
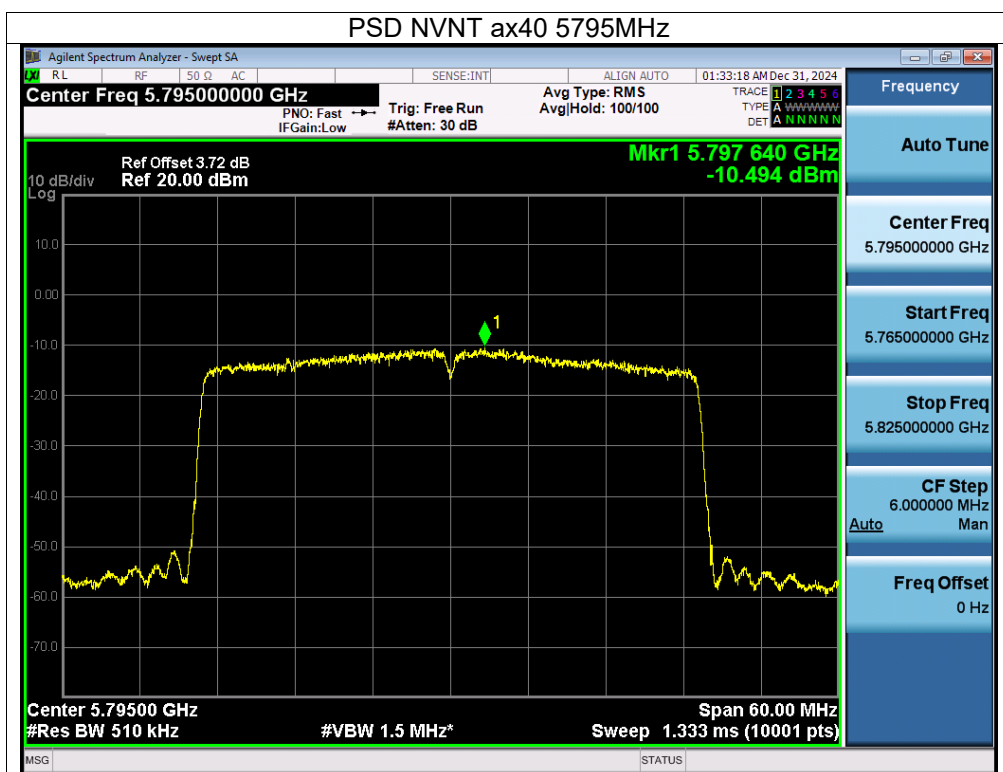






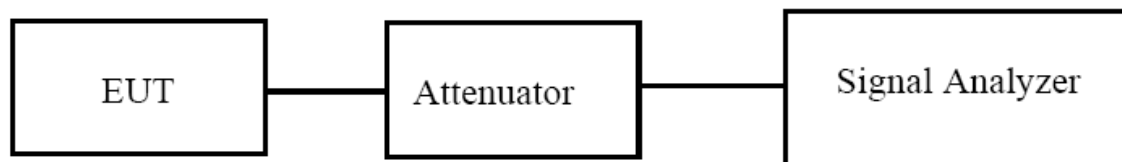






9. 26dB & 6dB & 99% Emission Bandwidth

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

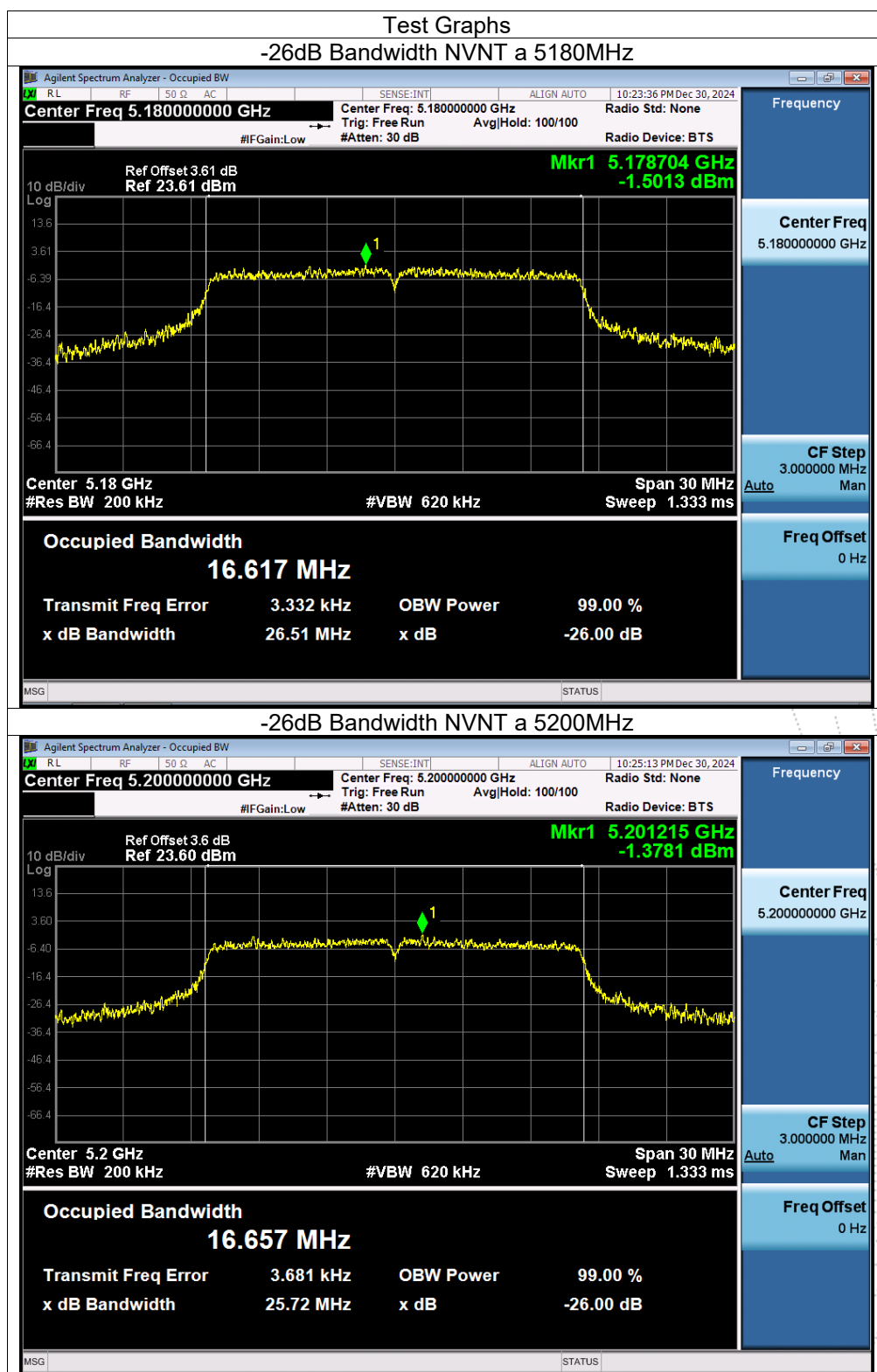
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

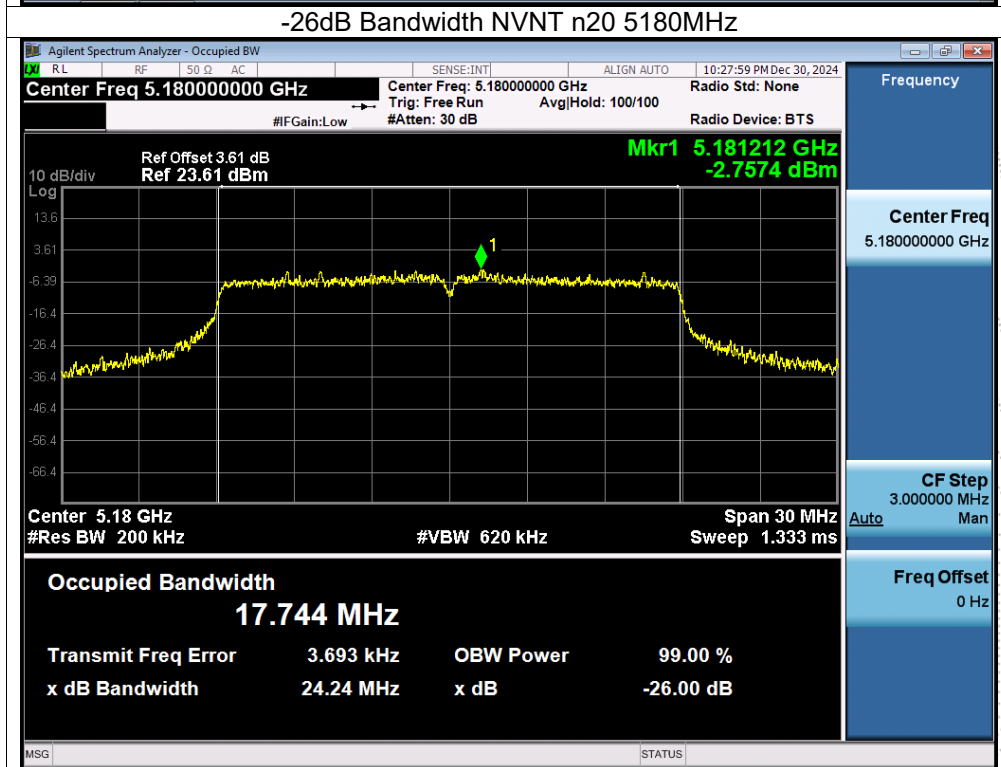
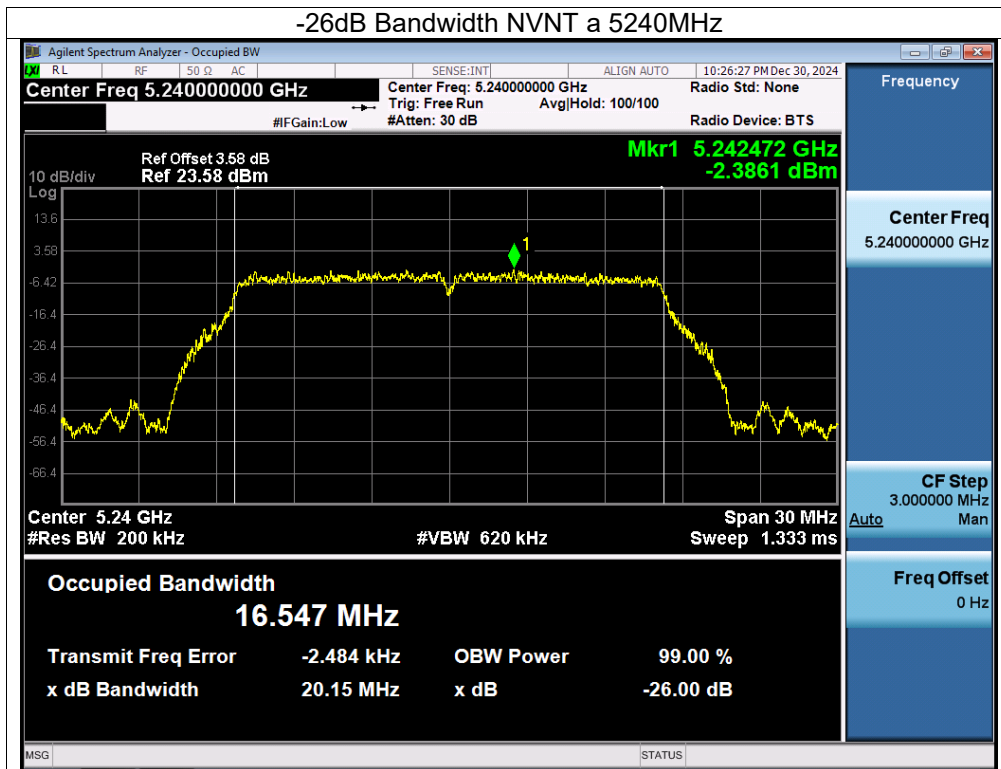
9.5 Test Result

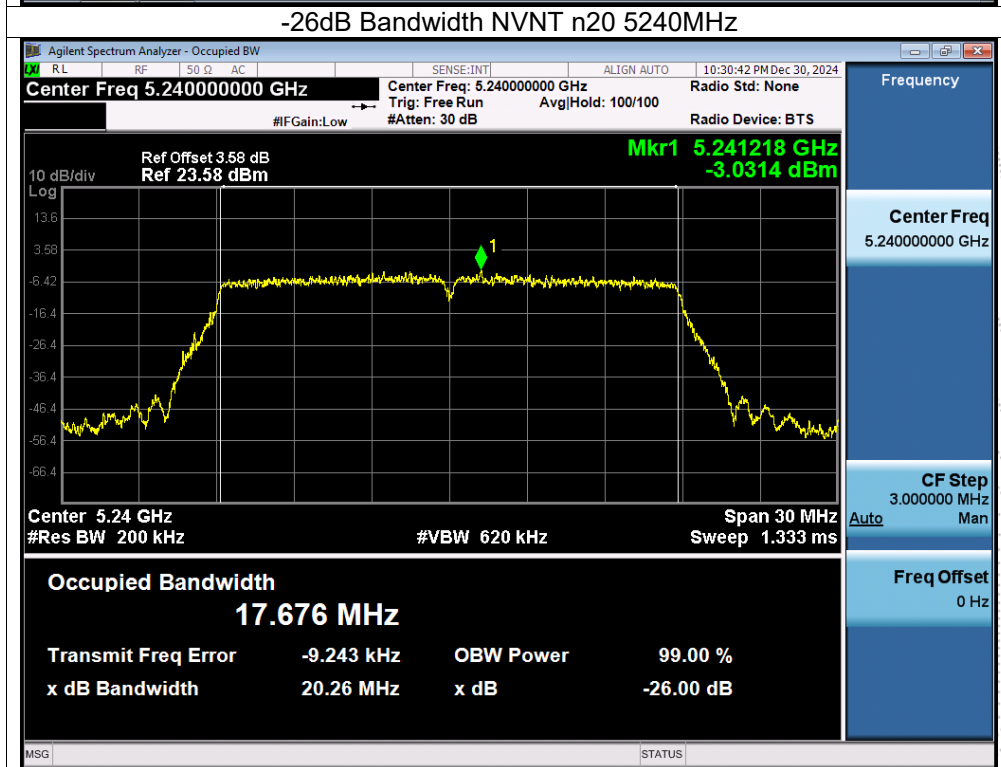
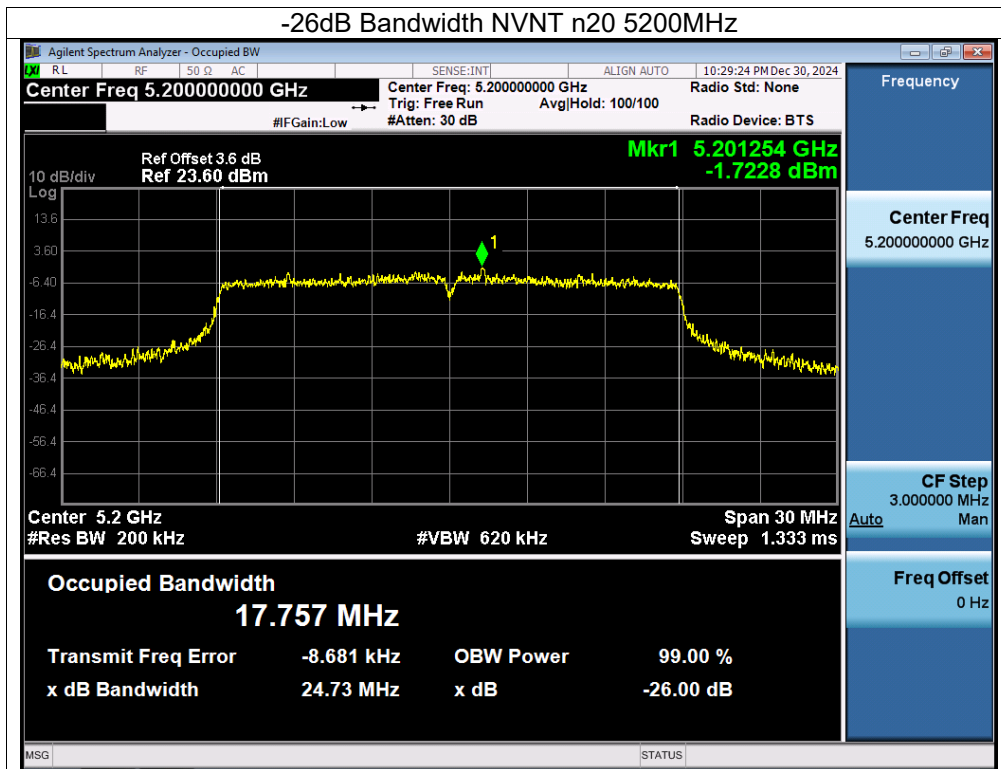
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 12V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

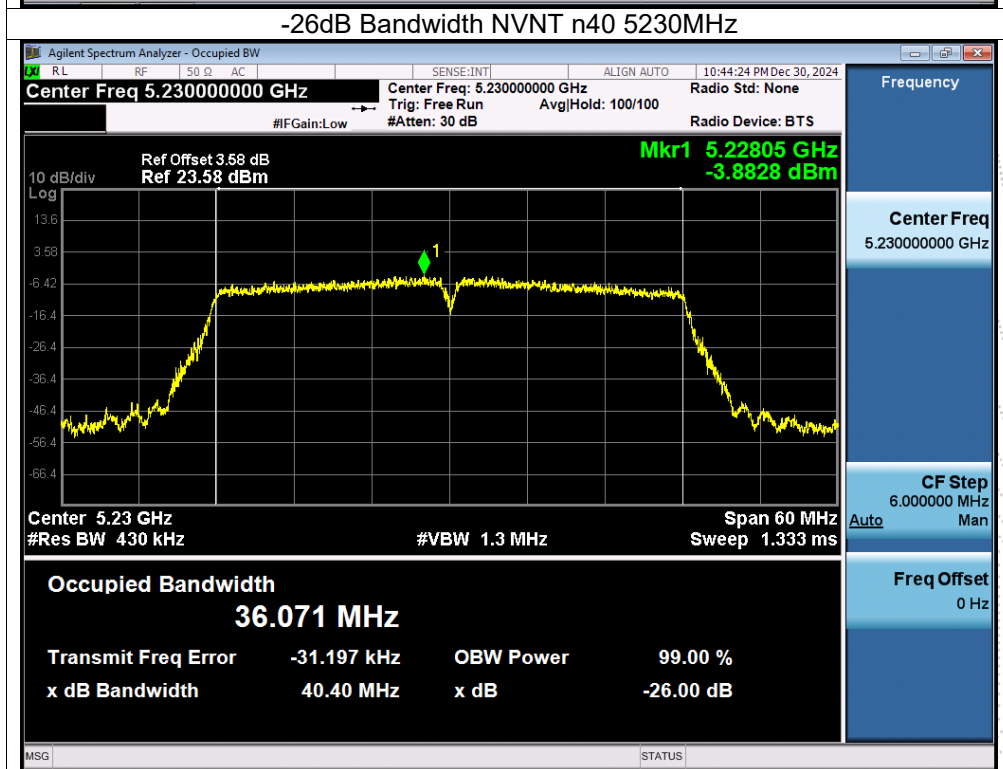
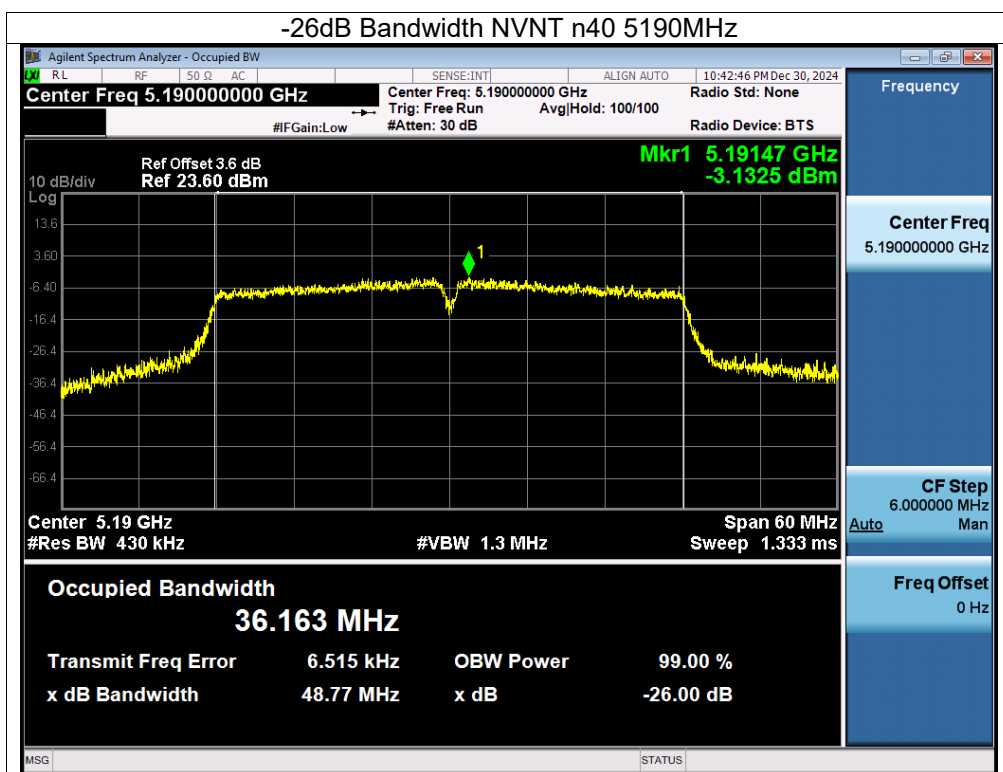
Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)			-26dB bandwidth (MHz)			Result
			ANT A	ANT B	ANT C	ANT A	ANT B	ANT C	
NVNT	a	5180	16.602	16.614	16.62	25.603	26.512	25.043	Pass
NVNT	a	5200	16.612	16.613	16.618	25.203	25.72	26.045	Pass
NVNT	a	5240	16.533	16.536	16.548	19.879	20.146	19.823	Pass
NVNT	n20	5180	17.765	17.74	17.776	27.779	24.237	25.455	Pass
NVNT	n20	5200	17.827	17.756	17.784	27.817	24.735	27.968	Pass
NVNT	n20	5240	17.703	17.657	17.683	20.263	20.261	20.333	Pass
NVNT	n40	5190	36.155	36.167	36.212	49.298	48.768	46.956	Pass
NVNT	n40	5230	36.085	36.051	35.975	40.555	40.403	40.206	Pass
NVNT	ac20	5180	17.779	17.767	17.747	25.534	25.968	26.023	Pass
NVNT	ac20	5200	17.743	17.813	17.738	25.852	25.608	26.314	Pass
NVNT	ac20	5240	17.681	17.658	17.629	20.219	20.215	20.112	Pass
NVNT	ac40	5190	36.2	36.238	36.254	52.363	46.323	49.63	Pass
NVNT	ac40	5230	36.06	36.138	36.137	39.967	39.616	40.373	Pass
NVNT	ac80	5210	75.52	75.553	75.323	101.048	102.984	94.74	Pass
NVNT	ax20	5180	19.01	19.007	18.944	26.012	24.538	25.645	Pass
NVNT	ax20	5200	18.997	19.009	18.991	25.727	29.295	26.327	Pass
NVNT	ax20	5240	18.876	18.868	18.81	19.825	19.857	19.8	Pass
NVNT	ax40	5190	37.685	37.653	37.677	48.298	46.692	42.418	Pass
NVNT	ax40	5230	37.521	37.526	37.449	39.248	39.315	39.531	Pass
NVNT	ax80	5210	77.08	76.943	77.026	80.467	83.965	83.212	Pass

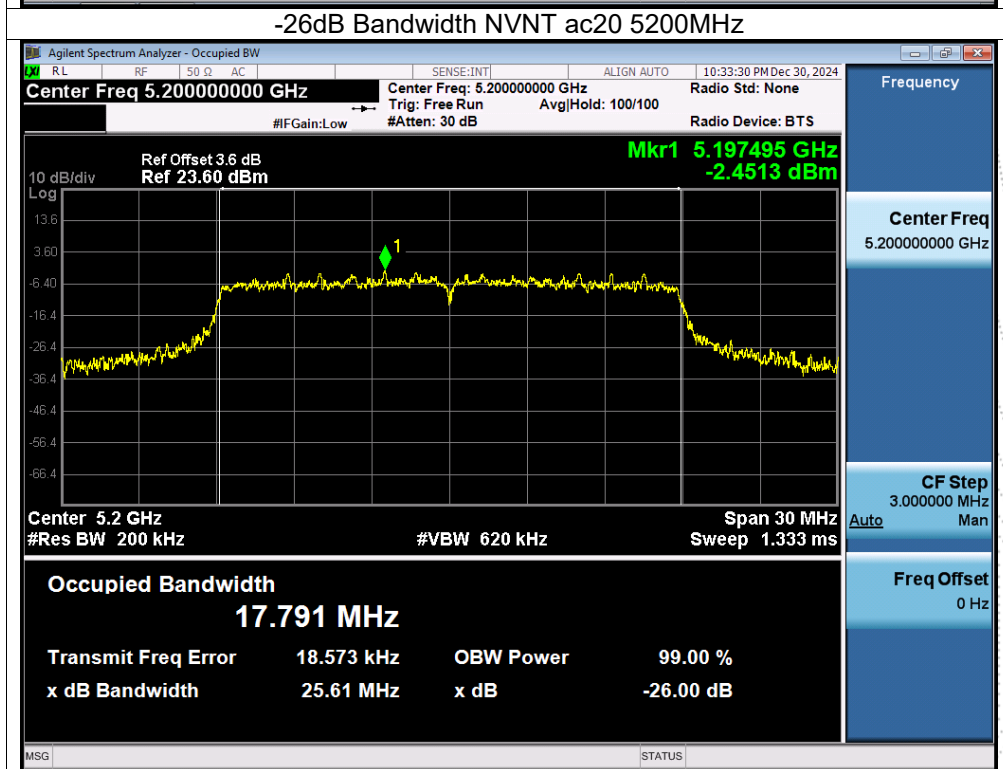
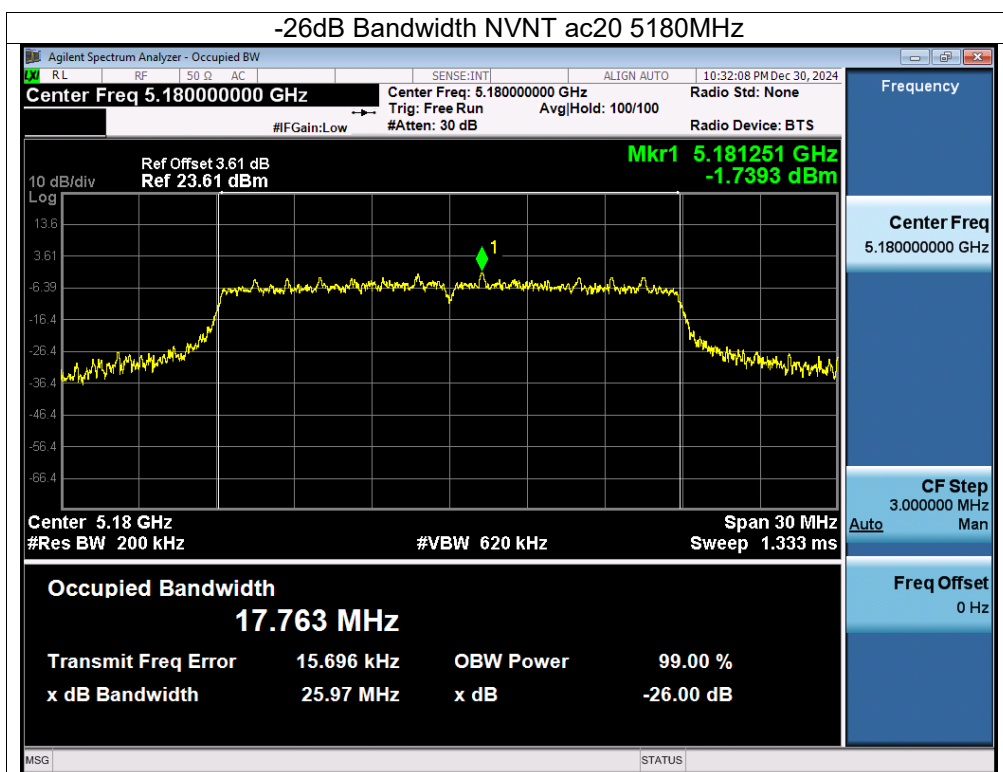
Note: A(B&C) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

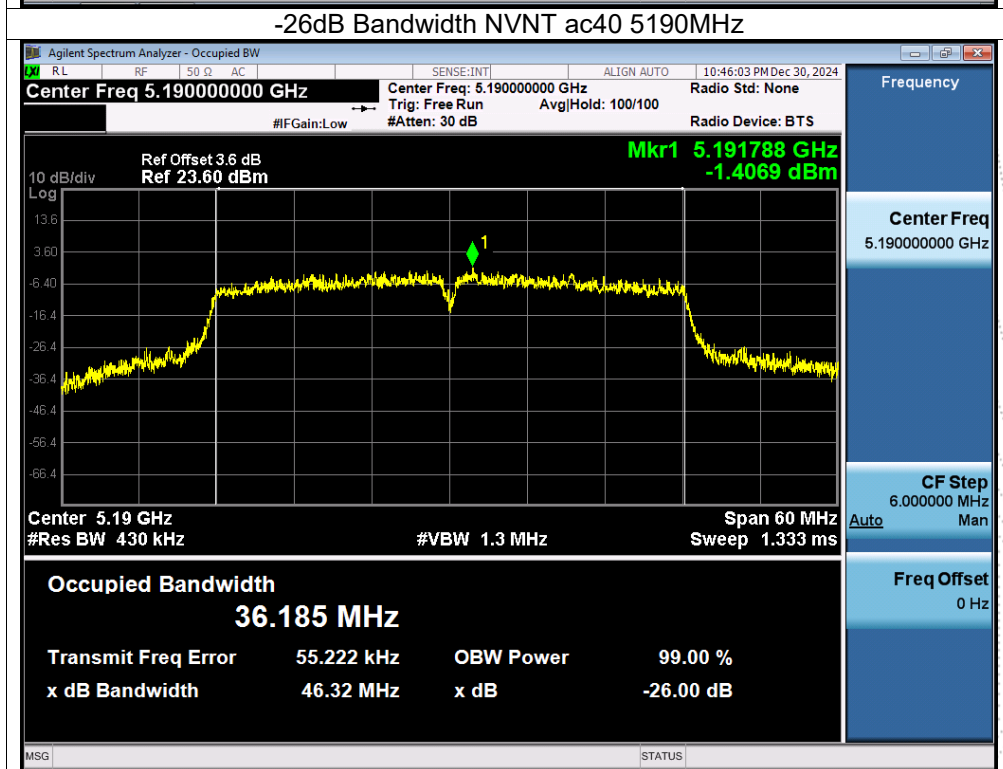
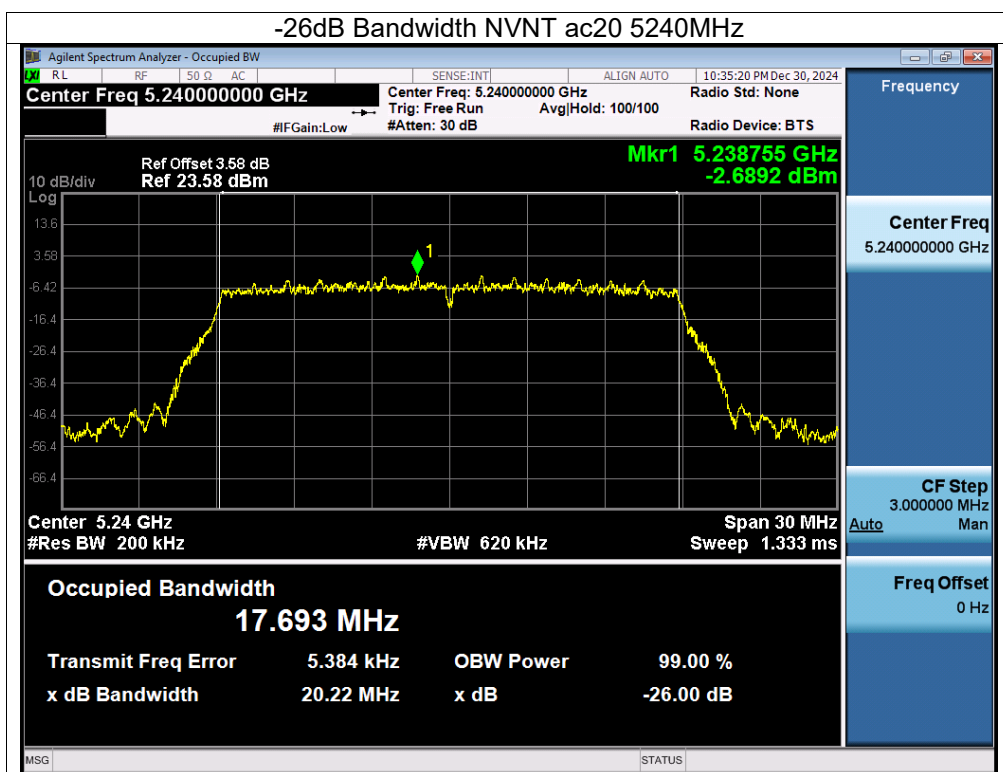


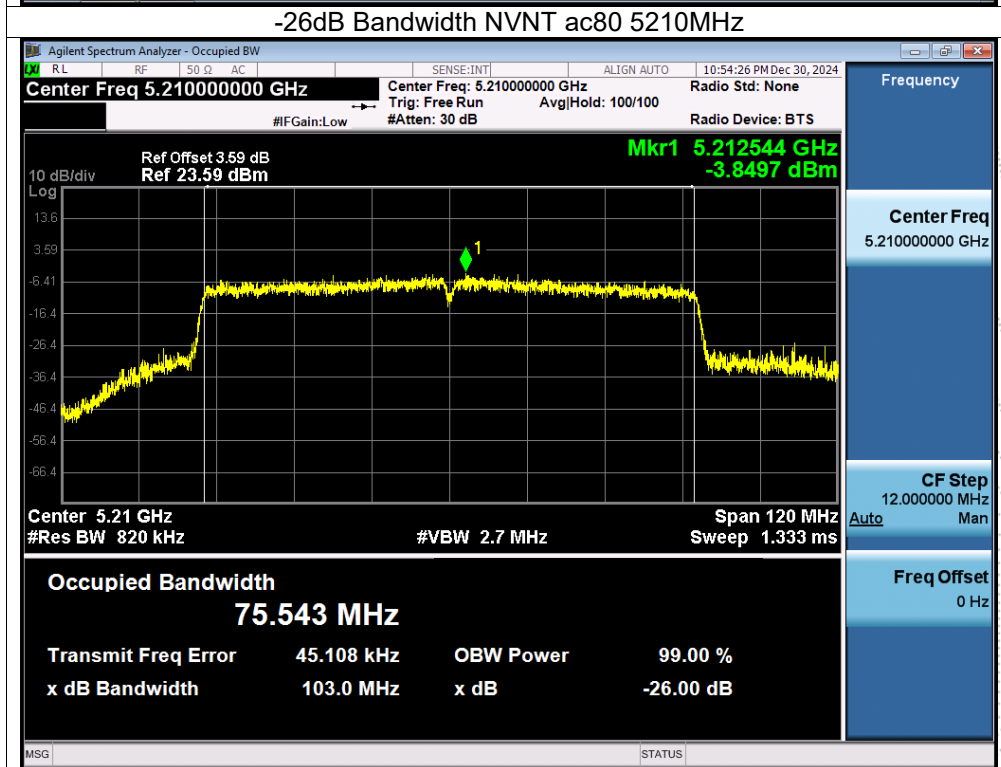
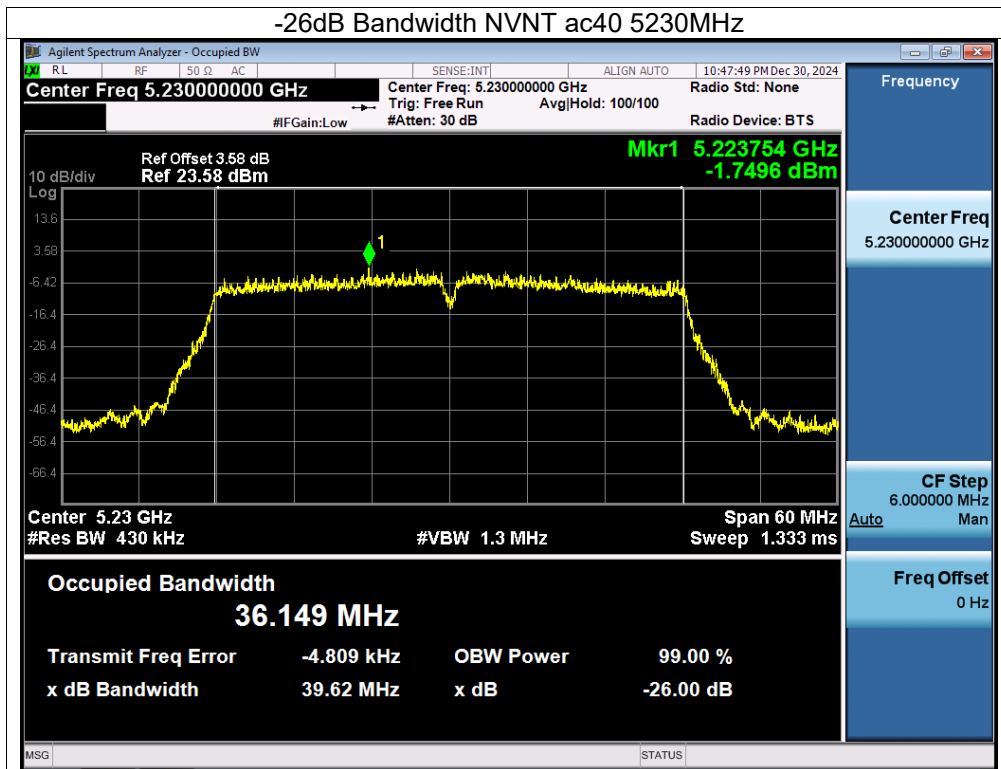


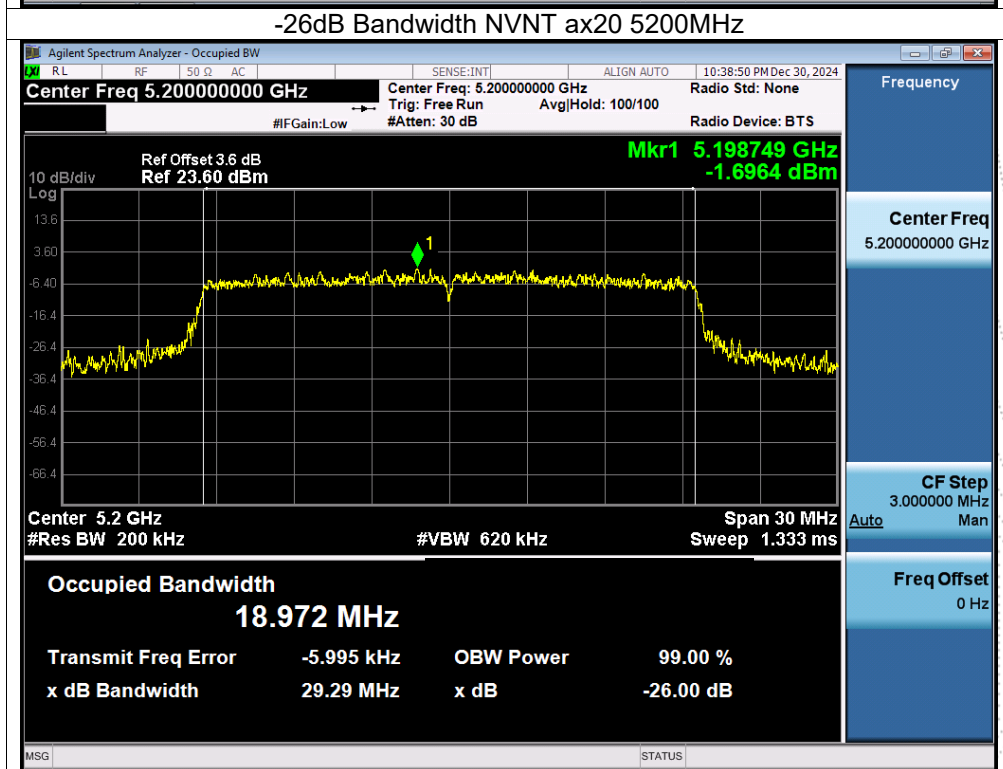
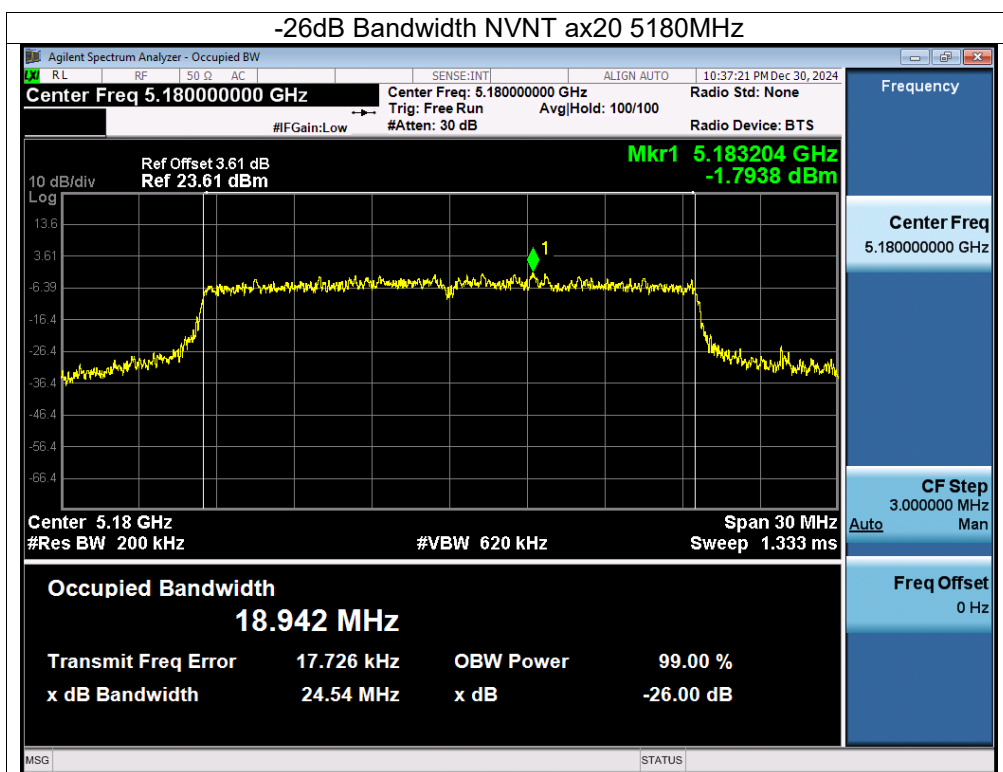


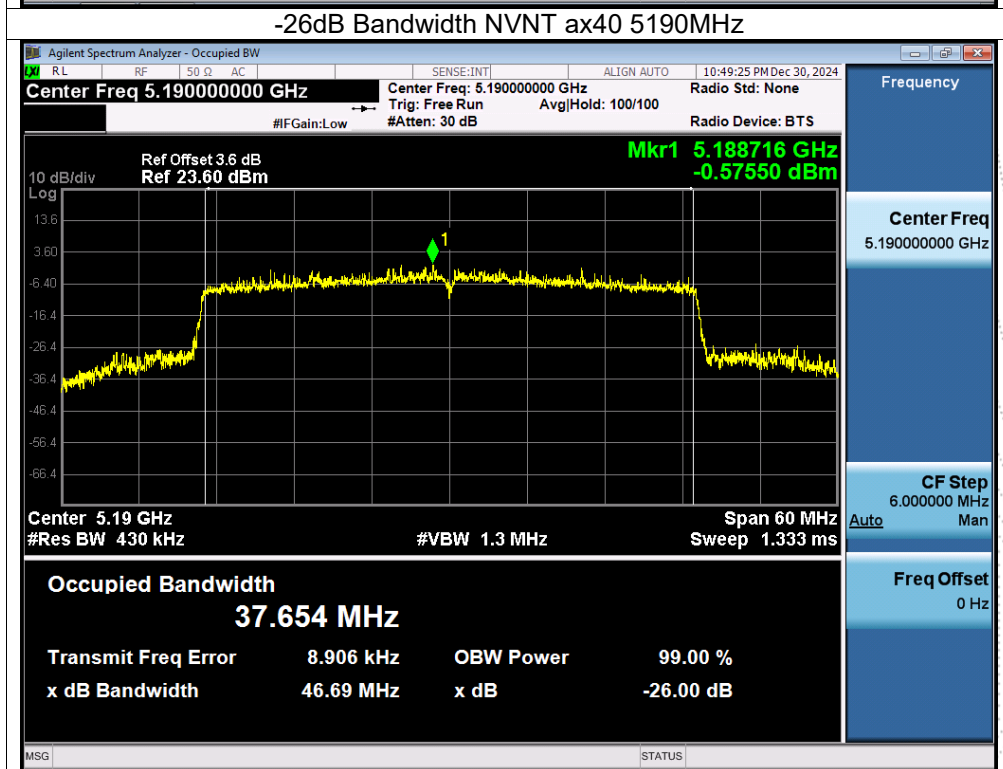
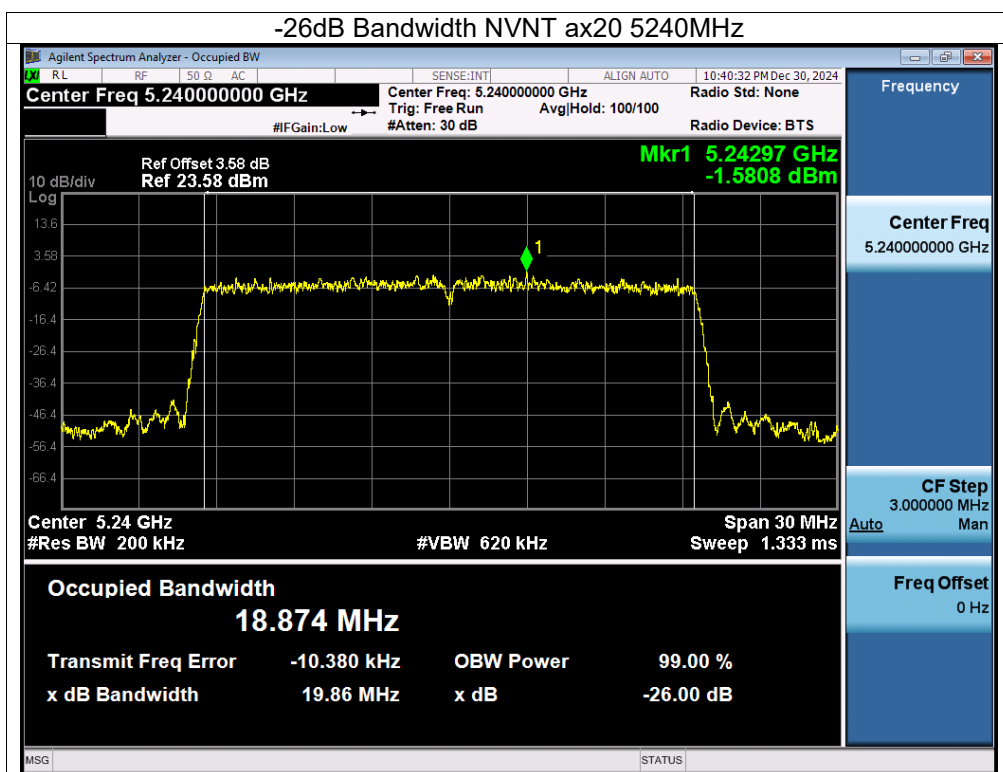


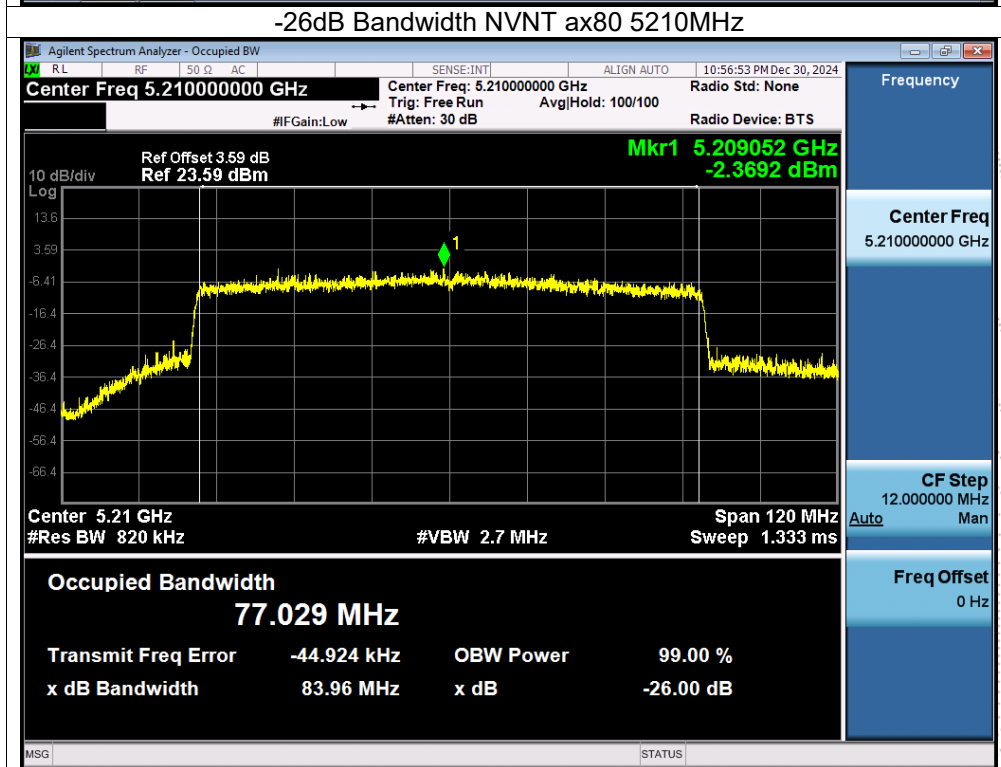
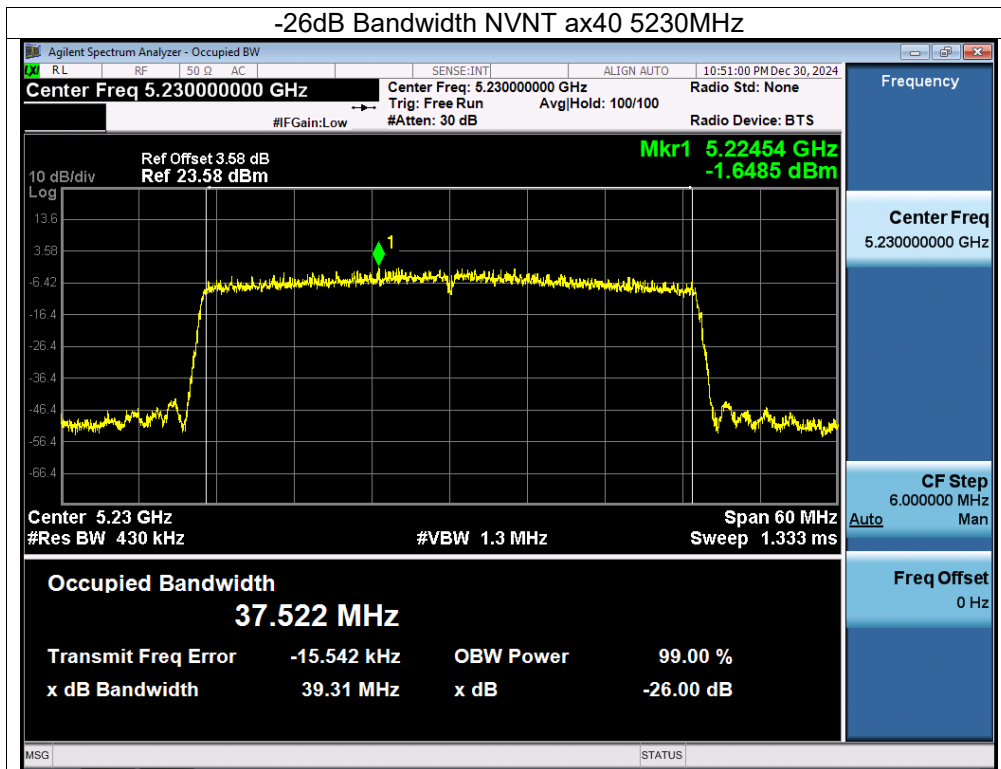












Note: A(B&C) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

