

TEST REPORT

Report No.: BCTC2308898751-2E

Applicant: BIGXI LLC

Product Name: pcWRT WiFi 6 Router

Model/Type
reference: PW-AX1800

Tested Date: 2023-08-28 to 2023-09-20

Issued Date: 2023-09-21


Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2BB6K-AX1800

Product Name: pcWRT WiFi 6 Router
Trademark: N/A
Model/Type reference: PW-AX1800
Prepared For: BIGXI LLC
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Manufacturer: Shenzhen Four Seas Global Link Network Technology Co., Ltd.
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Sample Received Date: 2023-08-28
Sample tested Date: 2023-08-28 to 2023-09-20
Issue Date: 2023-09-21
Report No.: BCTC2308898751-2E
FCC Part15 15.407
ANSI C63.10-2013
Test Standards: KDB 662911 D01 v02r01
KDB 789033 D02 v02r01
Test Results: PASS

Tested by:



Lei Chen/Project Handler

Approved by:



Zero Zhou/Reviewer

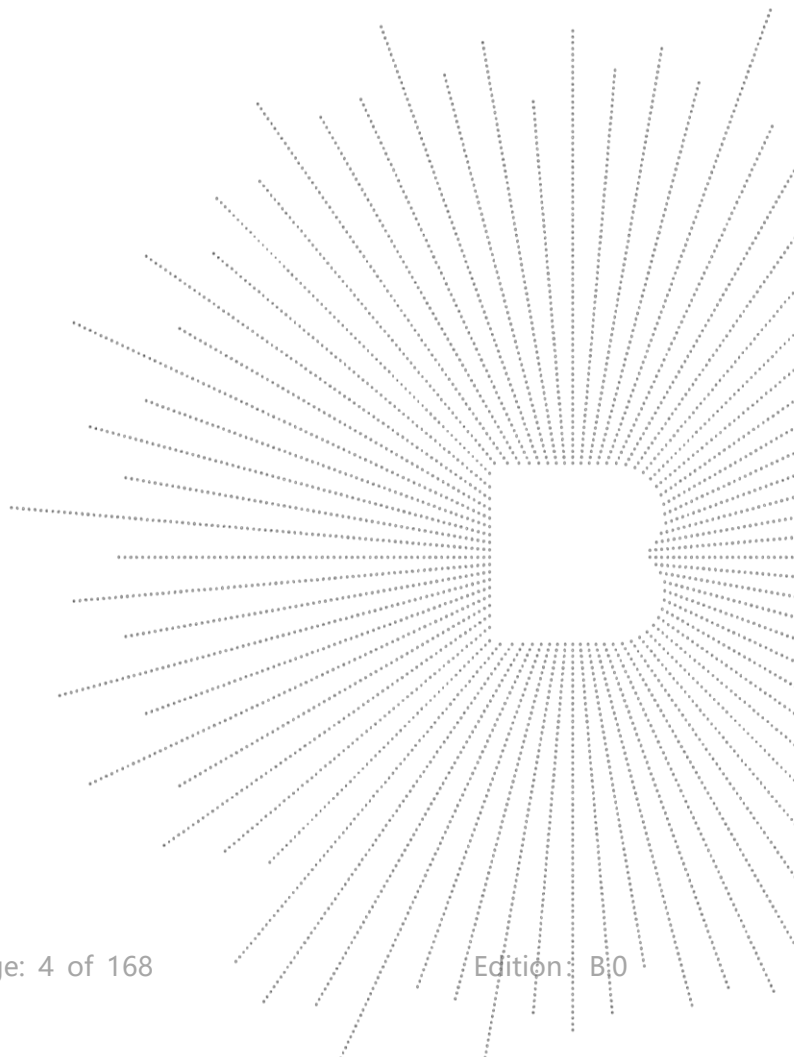
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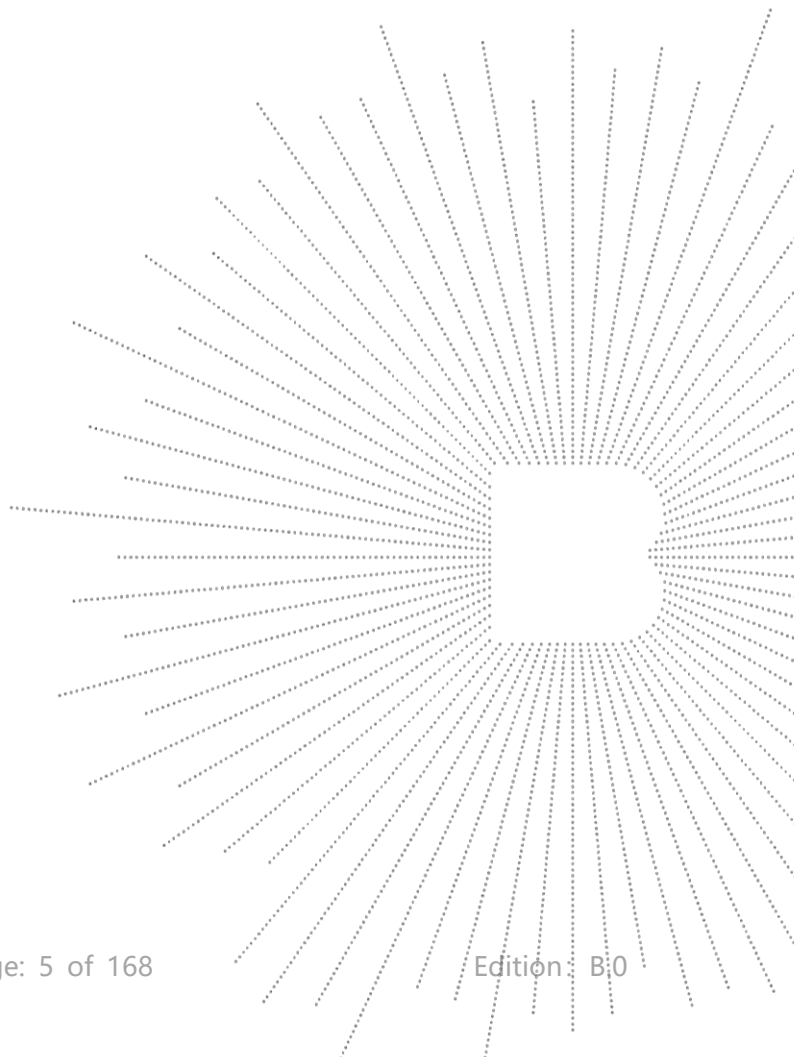
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(Note: N/A Means Not Applicable)



1. Version

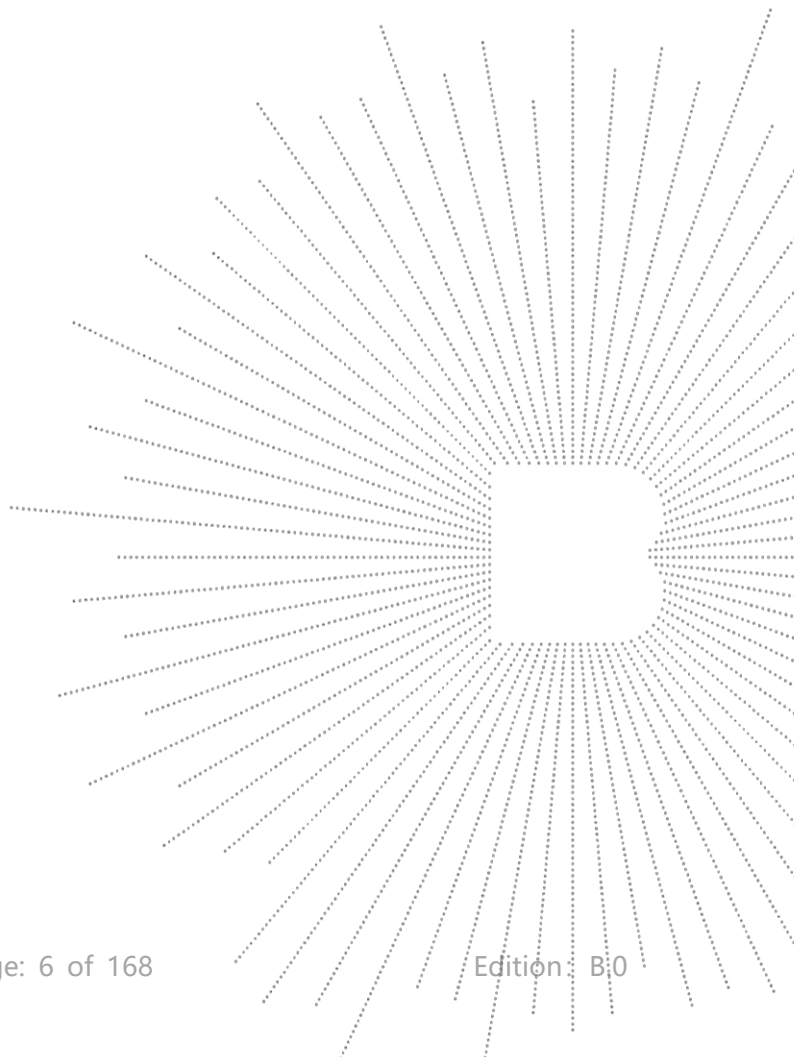
Report No.	Issue Date	Description	Approved
BCTC2308898751-2E	2023-09-21	Original	Valid



2. Test Summary

The Product has been tested according to the following specifications:

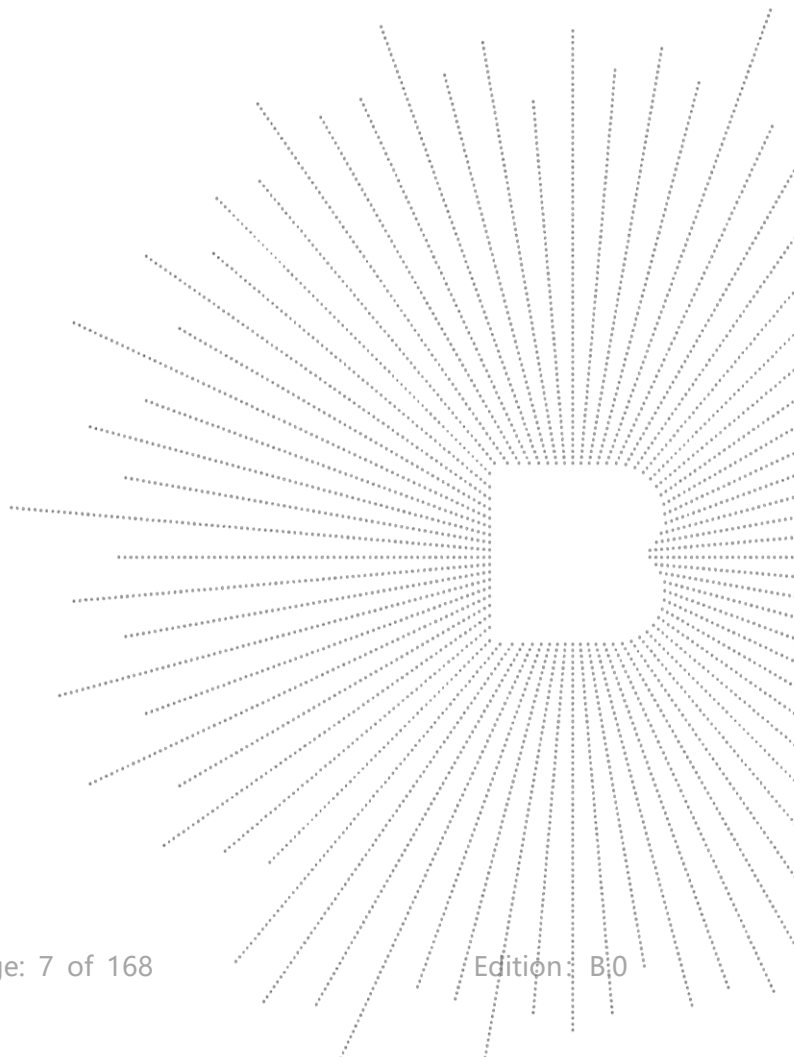
No.	Test Parameter	Clause No	Results
1	Spurious Radiated Emissions	15.209(a), 15.407 (b)(1) 15.407 (b)(4) 15.407 (b)(8)	PASS
2	Conducted Emission	15.207	PASS
3	26 dB and 99% Emission Bandwidth	15.407 (a)(12) 15.1049	PASS
4	Minimum 6 dB bandwidth	15.407(e)	PASS
5	Maximum Conducted Output Power	15.407 (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.

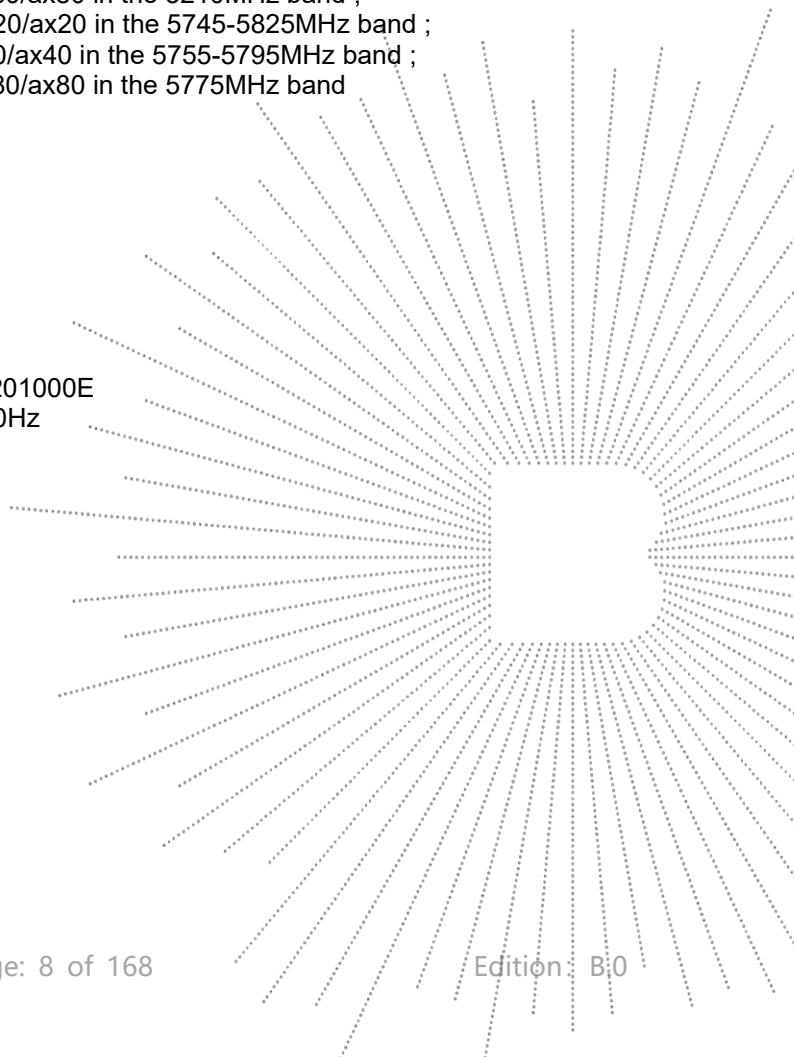
No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission(150kHz-30MHz)	U=3.20dB
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

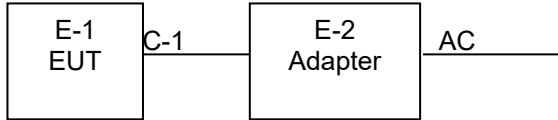
Model/Type Ref.:	PW-AX1800
Model differences:	N/A
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN Mode Supported	802.11a/n/ac/ax(20MHz channel bandwidth) 802.11n/ac/ax(40MHz channel bandwidth) 802.11ac/ax(80MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11a/n/ax(HT20); 5190-5230MHz for 802.11n/ax(HT40); 5210MHz for 802.11 ac/ax80;
Data Rate	5745-5825 MHz for 802.11a/n/ax(HT20); 5755-5795 MHz for 802.11n/ax(HT40); 5775MHz for 802.11 ac/ax80; 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/ax20 in the 5180-5240MHz band ; 2 channels for 802.11 n40/ax40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80/ax80 in the 5210MHz band ; 5 channels for 802.11a/n20/ax20 in the 5745-5825MHz band ; 2 channels for 802.11 n40/ax40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80/ax80 in the 5775MHz band
Antenna installation:	External antenna
Antenna Gain:	5.1G: Antenna A: 5.42 dBi Antenna B: 5.11 dBi 5.8G: Antenna A: 5.31 dBi Antenna B: 5.23 dBi
Ratings:	DC 12V from adapter
Adapter:	Model No.: JYSY015A-1201000E Input: AC 100-240V 50/60Hz Output: DC 12V 1A



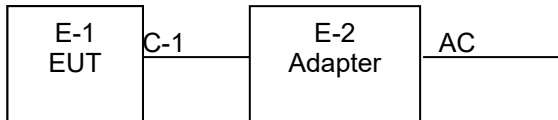
4.2 Test Setup Configuration

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

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	pcWRT WiFi 6 Router	N/A	PW-AX1800	N/A	EUT
E-2	ADAPTER	N/A	JYSY015A-120 1000E	N/A	Auxiliary

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

Notes:

- All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

5.1G

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

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

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

5.8G

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

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

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

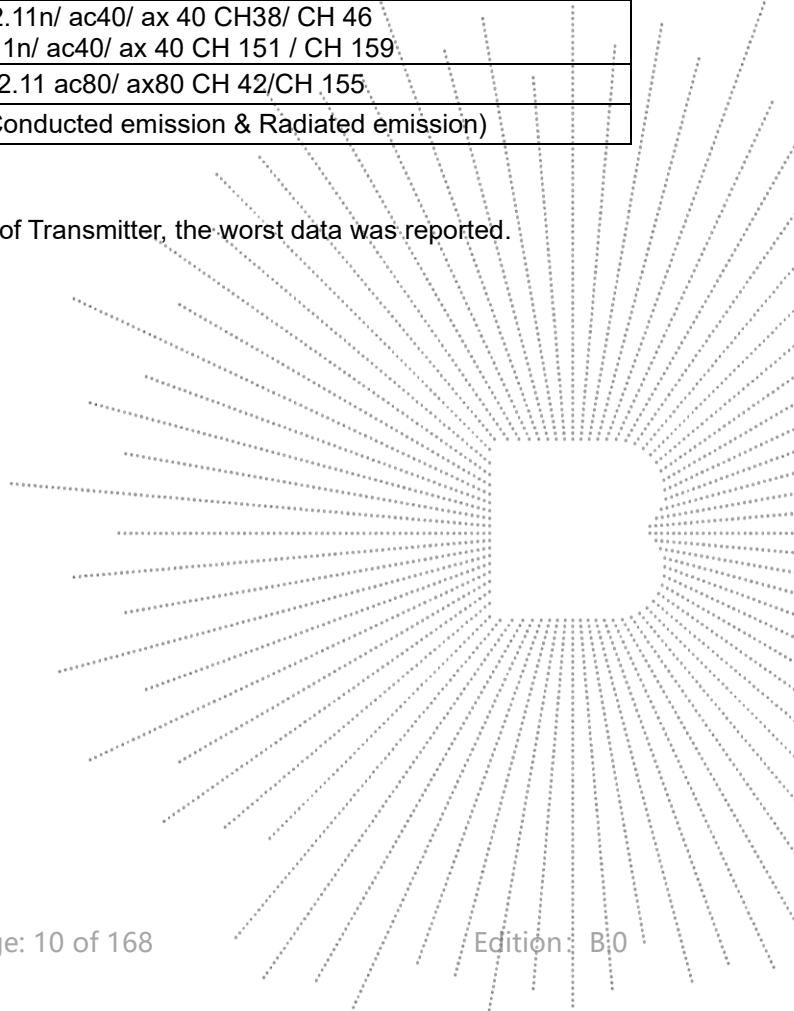
4.5 Test Mode

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

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

Note:

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



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	QDART-Connectivity1.0		
Parameters	DEF	DEF	DEF

4.7 Antenna

5.1G

1)For power spectral density(PSD) measurements,
 Array Gain= $10\log(\text{NANT}/\text{NSS})\text{dB}=10\log(2/1)=3.01\text{dB}$,
 So the directional gain for PSD is 8.43 dBi

2)For power measurements,
 The Array gain=0 dB for $\text{NANT} \leq 4$,
 So the directional gain for Power measurements is 5.42 dBi

Antenna	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
A	N/A	N/A	External antenna	5.42	N/A
B	N/A	N/A	External antenna	5.11	N/A

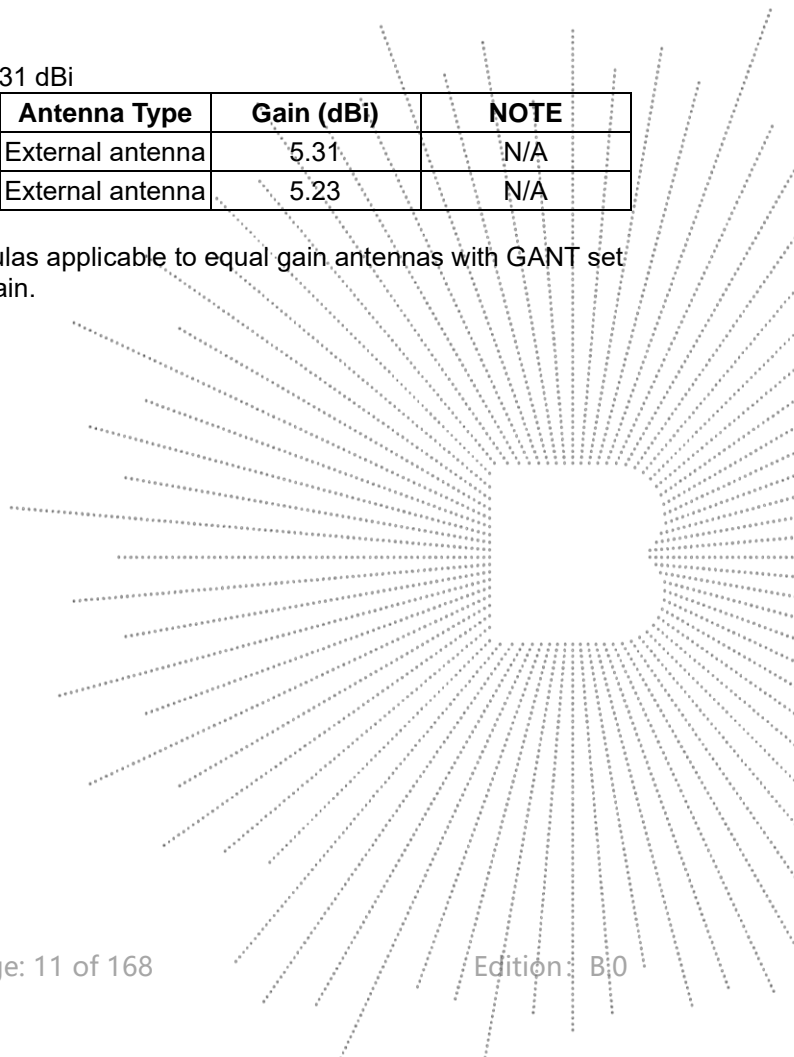
5.8G

1)For power spectral density(PSD) measurements,
 Array Gain= $10\log(\text{NANT}/\text{NSS})\text{dB}=10\log(2/1)=3.01\text{dB}$,
 So the directional gain for PSD is 8.32 dB

2)For power measurements,
 The Array gain=0 dB for $\text{NANT} \leq 4$,
 So the directional gain for Power measurements is 5.31 dBi

Antenna	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
A	N/A	N/A	External antenna	5.31	N/A
B	N/A	N/A	External antenna	5.23	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

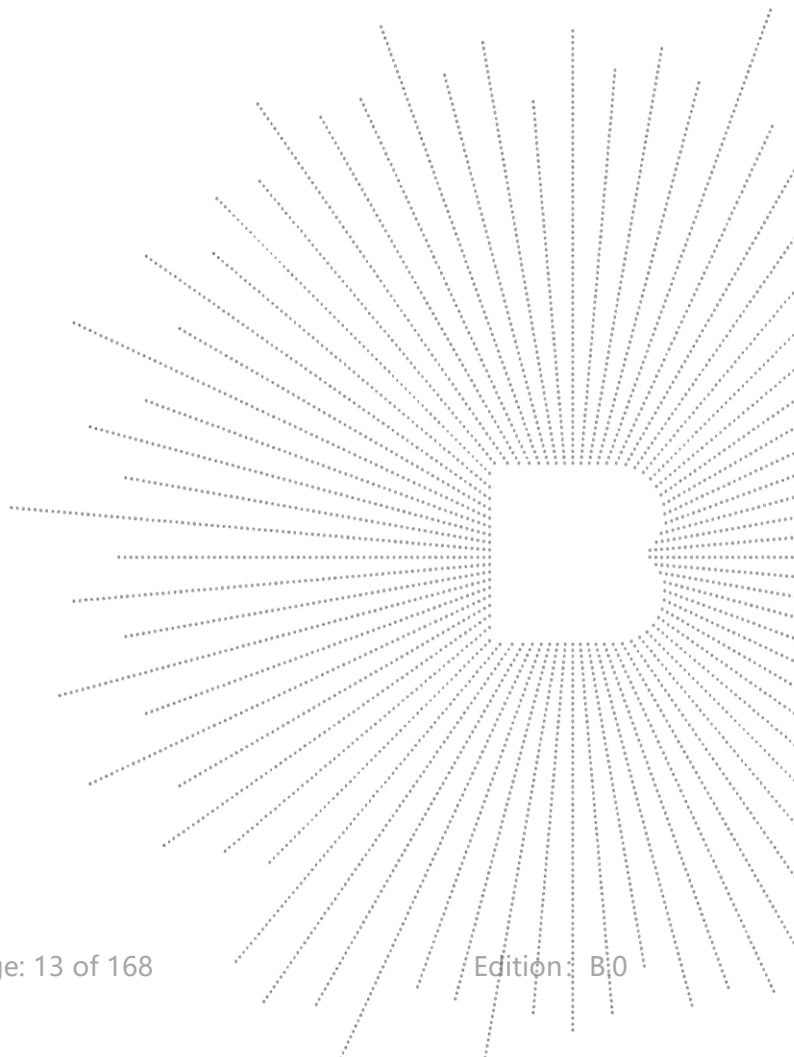
ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
LISN	R&S	ENV216	101375	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB DC-6GHz	1650	May 15, 2023	May 14, 2024

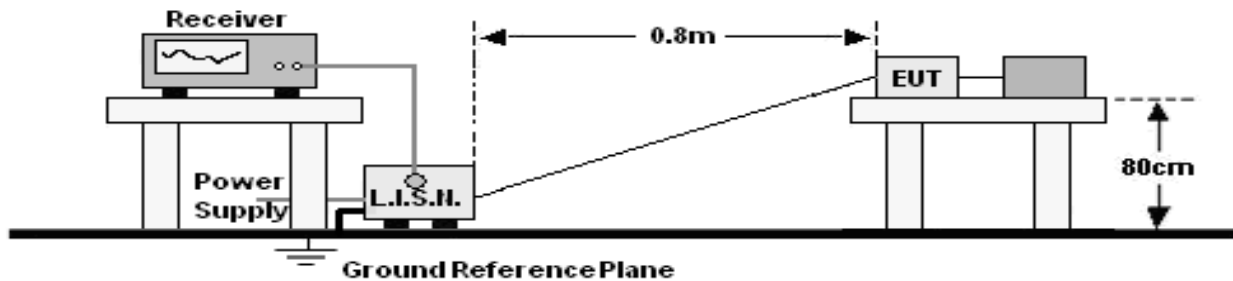
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	\	May 15, 2023	May 14, 2024
Power Sensor (AV)	Keysight	E9300A	\	May 15, 2023	May 14, 2024
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
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 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 29, 2023	May 28, 2024
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 15, 2023	May 14, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 15, 2023	May 14, 2024
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
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

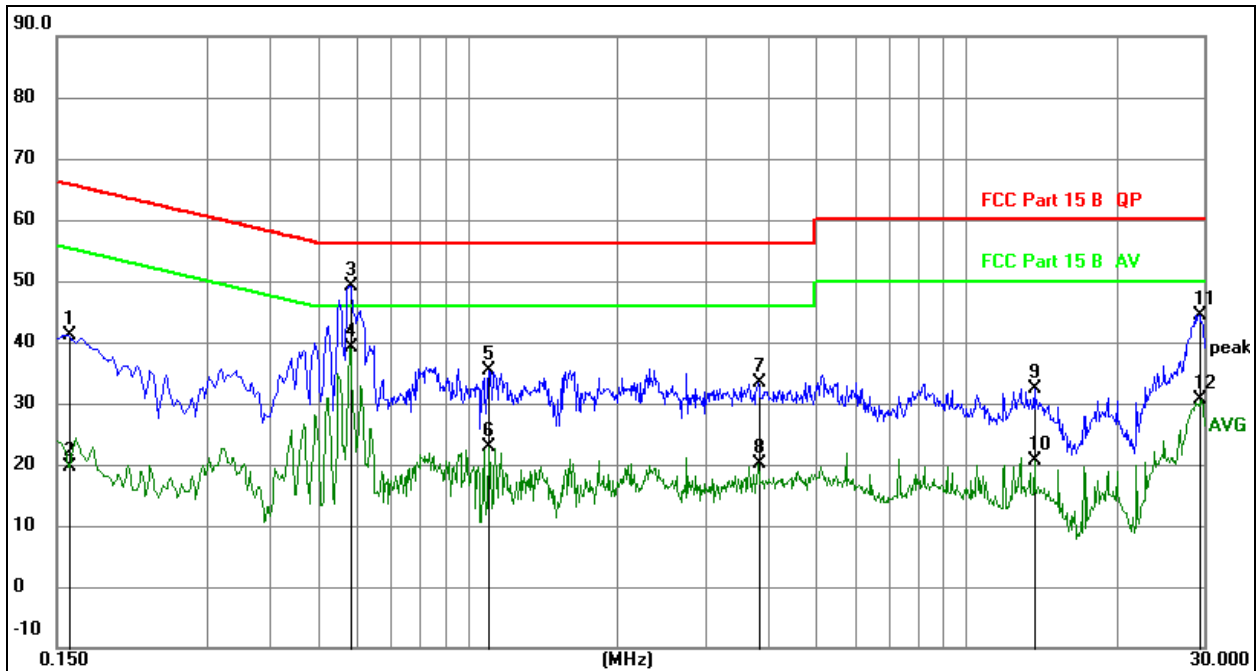
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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 :	AC120V/60Hz

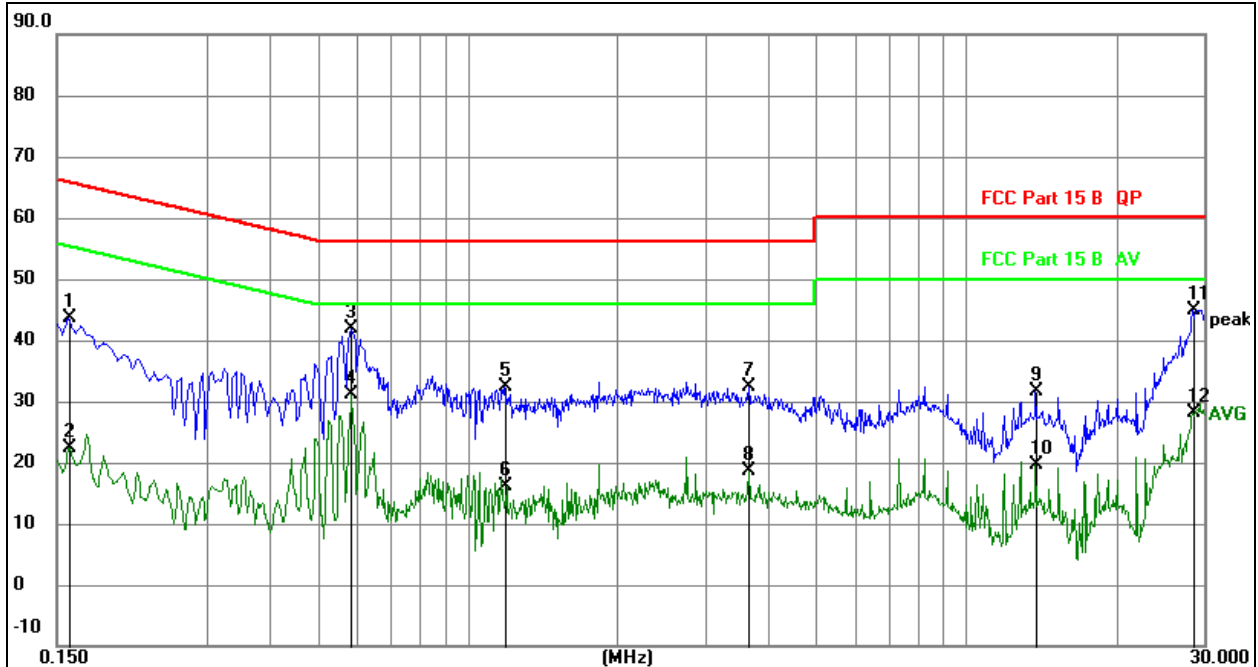


Remark:

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		0.1590	31.63	9.53	41.16	65.52	-24.36	QP
2		0.1590	10.11	9.53	19.64	55.52	-35.88	AVG
3	*	0.5820	39.53	9.62	49.15	56.00	-6.85	QP
4		0.5820	29.40	9.62	39.02	46.00	-6.98	AVG
5		1.1040	25.61	9.73	35.34	56.00	-20.66	QP
6		1.1040	13.24	9.73	22.97	46.00	-23.03	AVG
7		3.8355	23.54	9.83	33.37	56.00	-22.63	QP
8		3.8355	10.24	9.83	20.07	46.00	-25.93	AVG
9		13.7670	22.82	9.66	32.48	60.00	-27.52	QP
10		13.7670	10.97	9.66	20.63	50.00	-29.37	AVG
11		29.4810	34.74	9.70	44.44	60.00	-15.56	QP
12		29.4810	21.00	9.70	30.70	50.00	-19.30	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz


Remark:

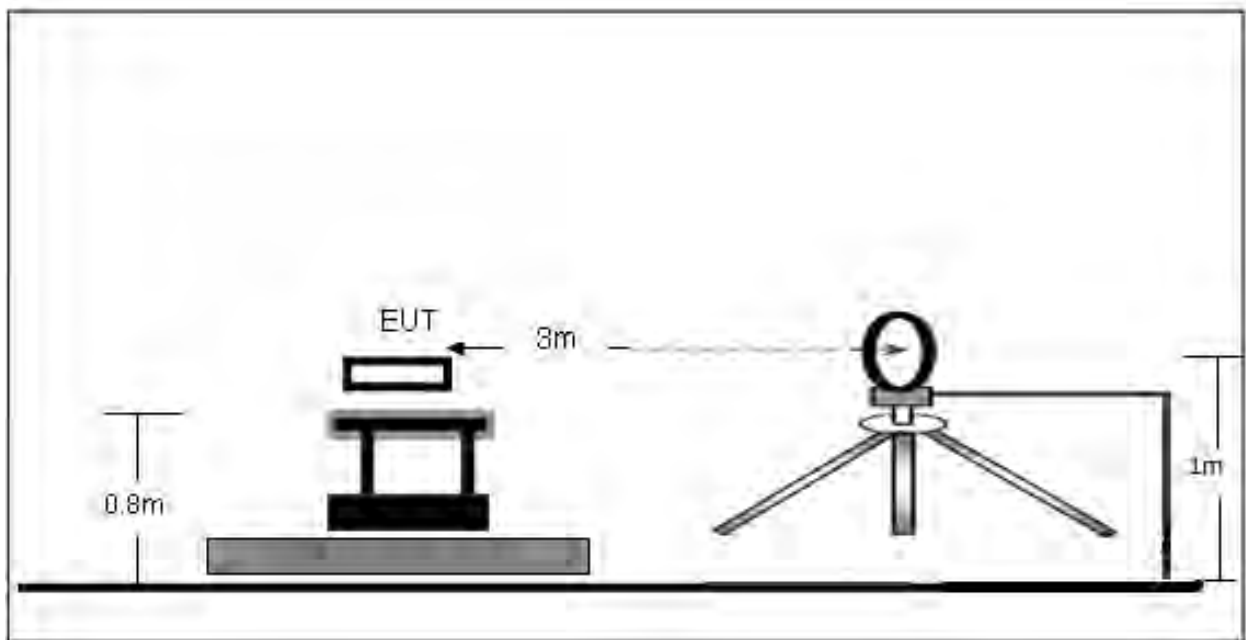
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over=Measurement-Limit

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1582	34.02	9.53	43.55	65.56	-22.01	QP
2		0.1582	12.79	9.53	22.32	55.56	-33.24	AVG
3	*	0.5854	32.32	9.62	41.94	56.00	-14.06	QP
4		0.5854	21.54	9.62	31.16	46.00	-14.84	AVG
5		1.1844	22.55	9.73	32.28	56.00	-23.72	QP
6		1.1844	6.47	9.73	16.20	46.00	-29.80	AVG
7		3.6611	22.45	9.82	32.27	56.00	-23.73	QP
8		3.6611	8.77	9.82	18.59	46.00	-27.41	AVG
9		13.7680	21.87	9.66	31.53	60.00	-28.47	QP
10		13.7680	9.86	9.66	19.52	50.00	-30.48	AVG
11		28.4519	35.28	9.71	44.99	60.00	-15.01	QP
12		28.4519	18.38	9.71	28.09	50.00	-21.91	AVG

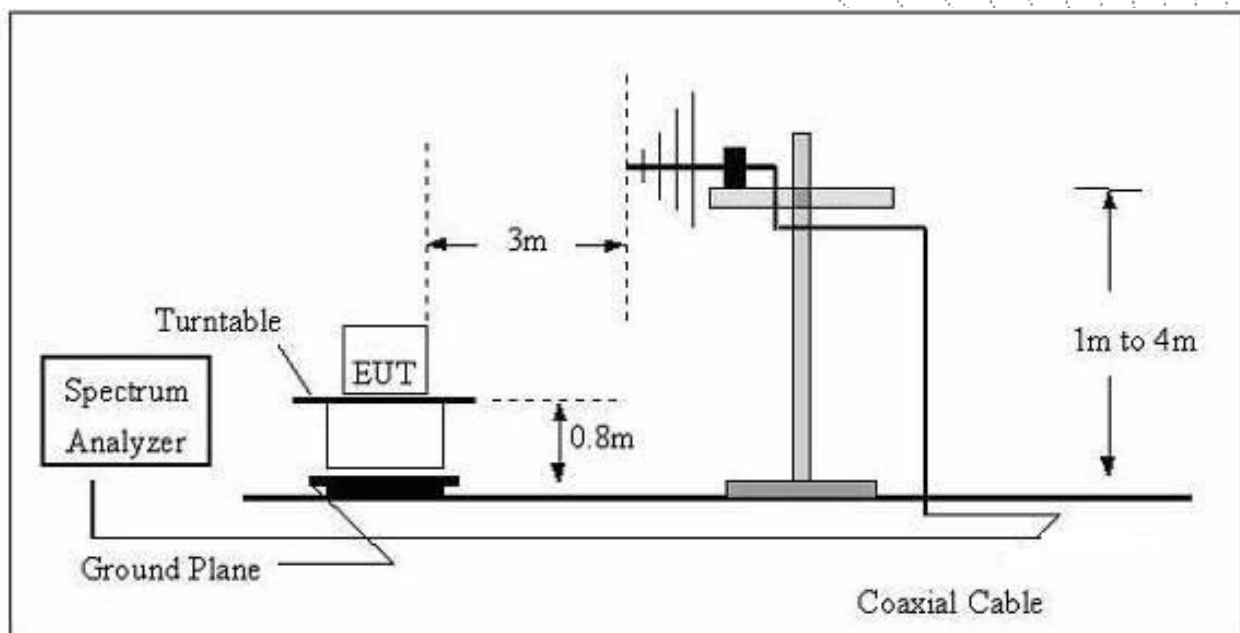
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

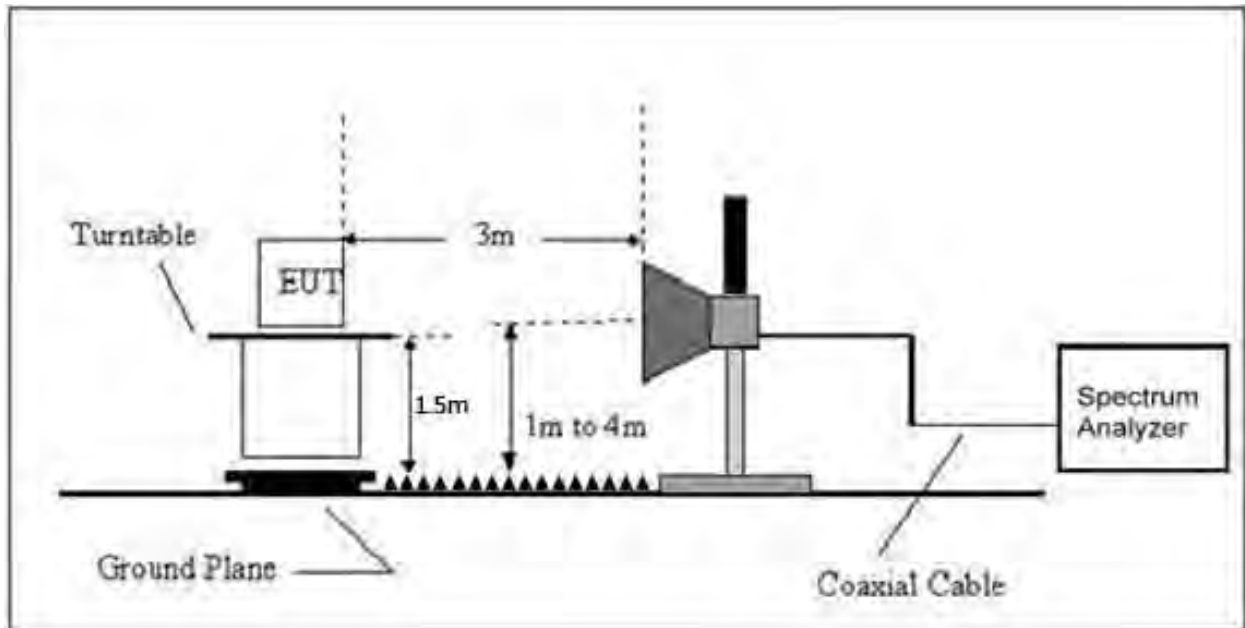
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



7.2 Limit

According to FCC Part 15.407(b): radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

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.

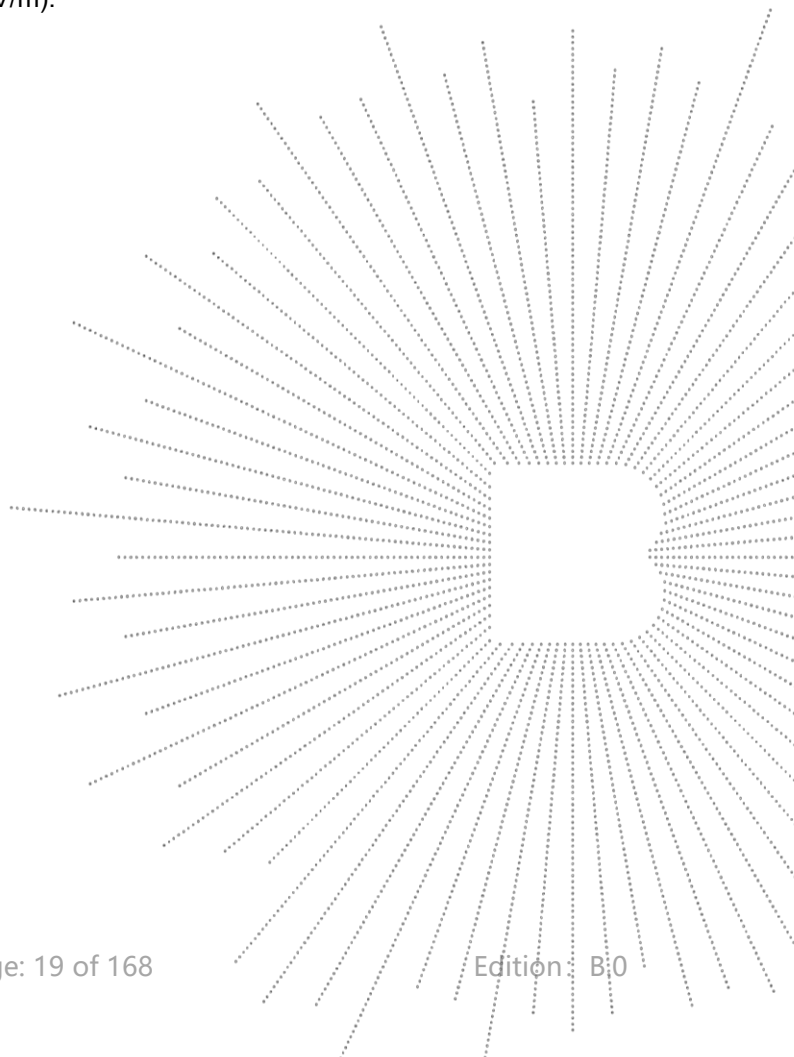
Frequency (MHz)	Field Strength uV/m	Distance (m)	Field Strength Limit at 3m Distance	
			uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40
1.705 ~ 30	30	30	100 * 30	20log ⁽³⁰⁾ + 40
30 ~ 88	100	3	100	20log ⁽¹⁰⁰⁾
88 ~ 216	150	3	150	20log ⁽¹⁵⁰⁾
216 ~ 960	200	3	200	20log ⁽²⁰⁰⁾
Above 960	500	3	500	20log ⁽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:	101 kPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 4	Polarization:	--

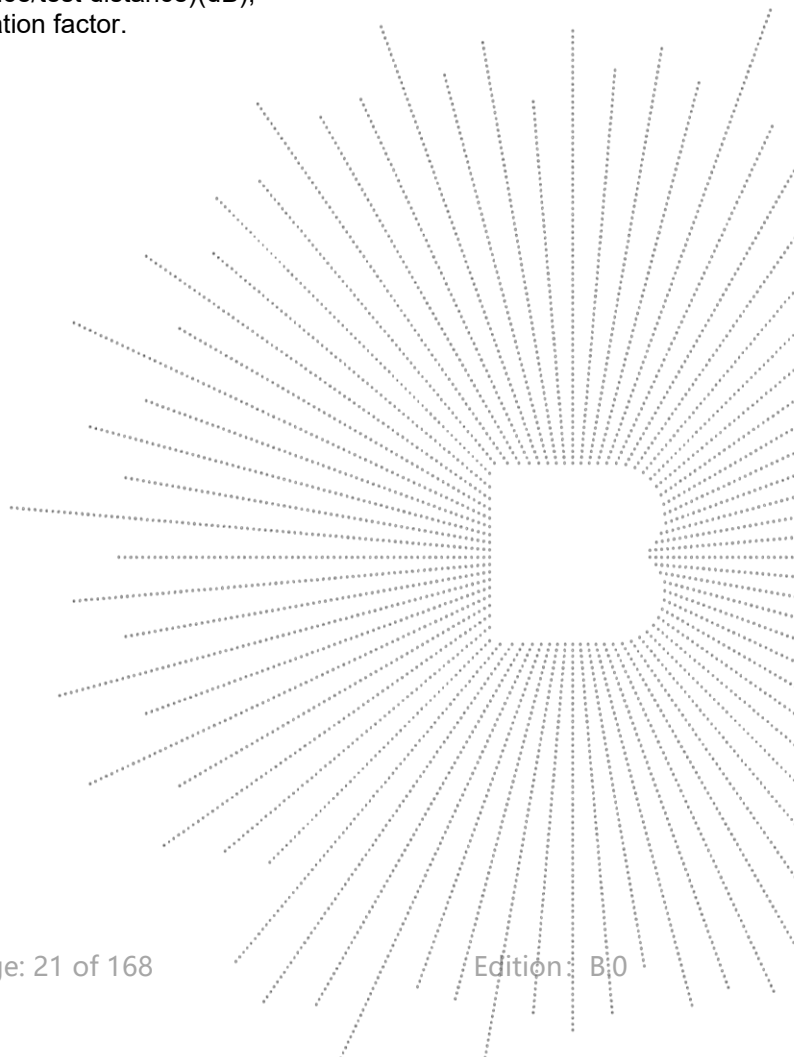
Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

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

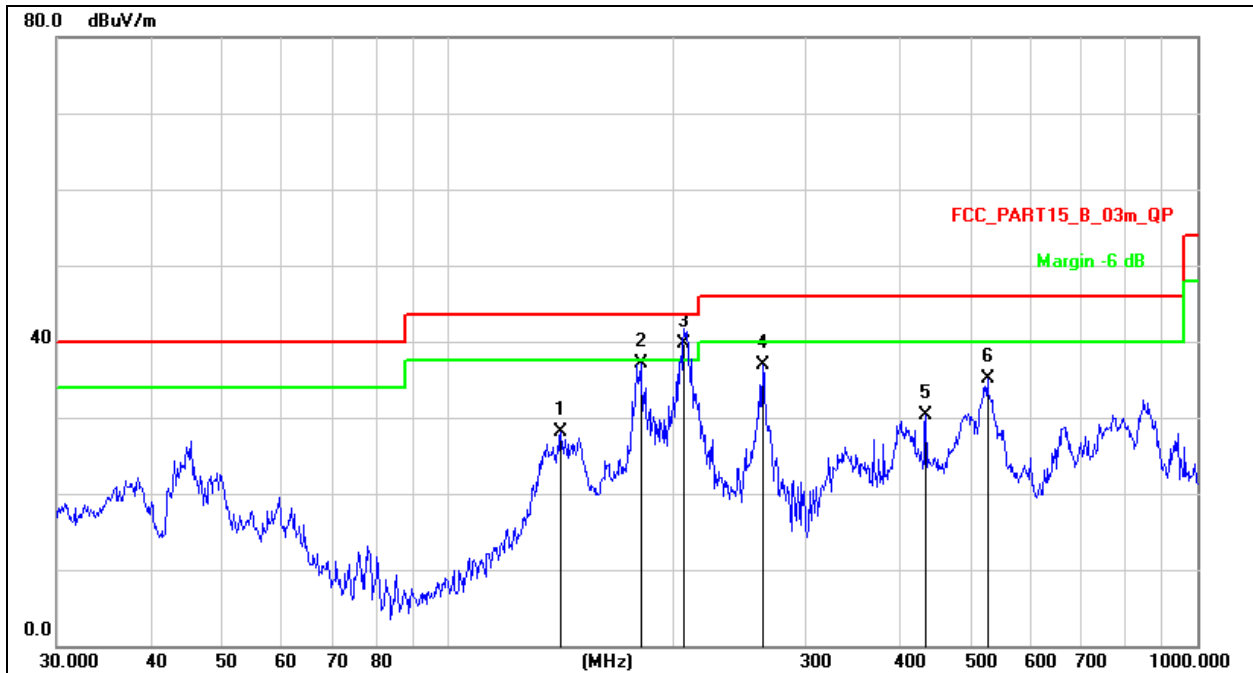
Distance extrapolation factor = $40 \log(\text{specific distance/test distance})(\text{dB})$;

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



Between 30MHz – 1GHz

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz

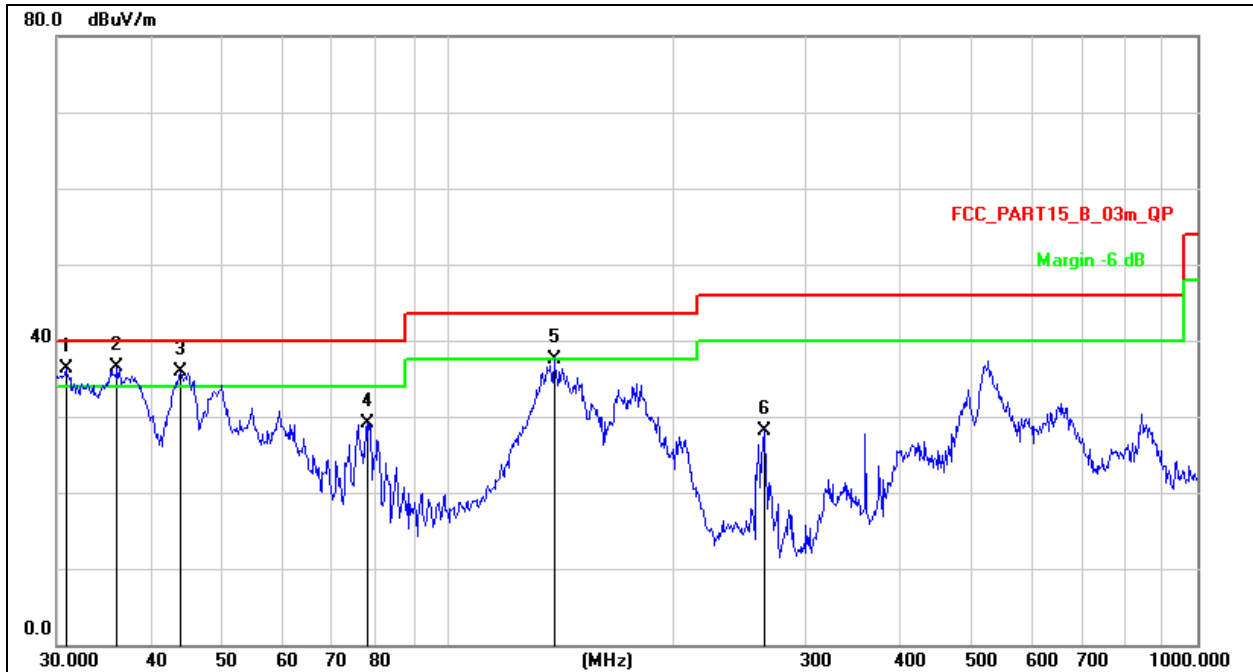


Remark:

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		141.3298	48.59	-20.48	28.11	43.50	-15.39	QP
2		180.6487	55.91	-18.79	37.12	43.50	-6.38	QP
3	*	206.2376	56.86	-17.18	39.68	43.50	-3.82	QP
4		262.8955	52.42	-15.51	36.91	46.00	-9.09	QP
5		434.0650	41.96	-11.72	30.24	46.00	-15.76	QP
6		524.5540	44.91	-9.89	35.02	46.00	-10.98	QP

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	Test Voltage :	AC120V/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	!	30.8535	54.46	-18.24	36.22	40.00	-3.78	QP
2	*	36.1272	53.94	-17.36	36.58	40.00	-3.42	QP
3	!	43.8119	52.24	-16.29	35.95	40.00	-4.05	QP
4		77.8654	50.33	-21.22	29.11	40.00	-10.89	QP
5		138.3873	57.77	-20.29	37.48	43.50	-6.02	QP
6		263.8190	43.60	-15.48	28.12	46.00	-17.88	QP

Between 1GHz – 40GHz

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

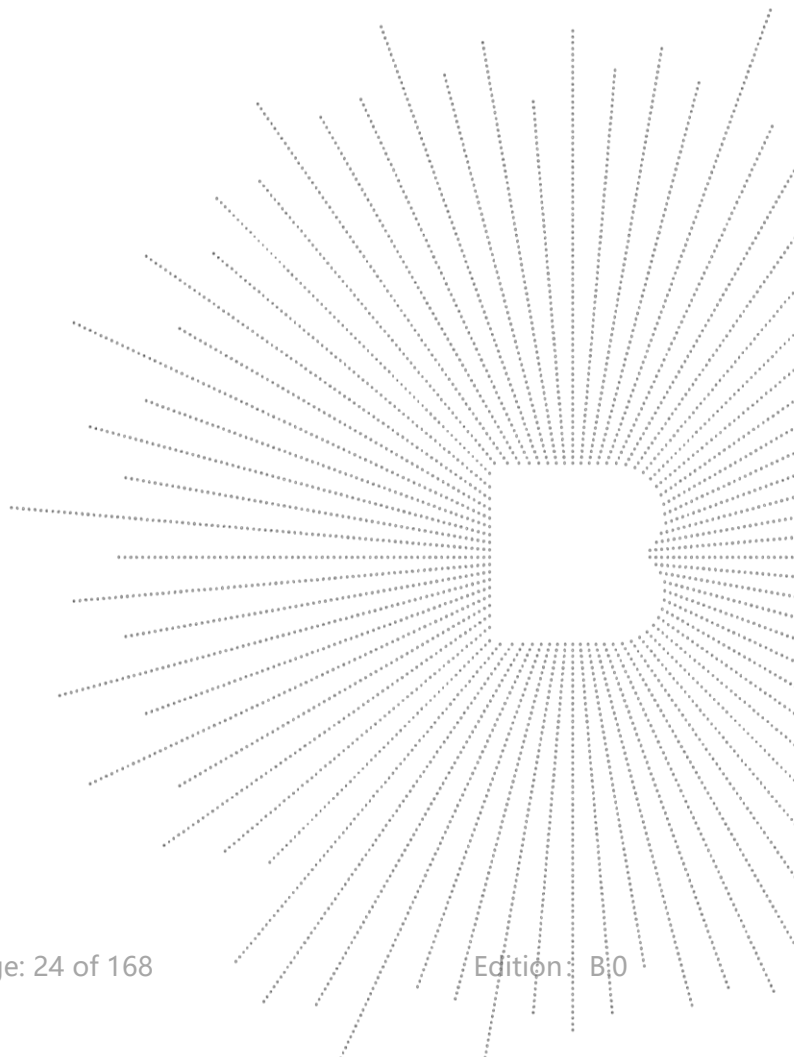
Test mode: 802.11a (antenna a) Frequency(MHz): 5180

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5149.62	H	60.17	74	46.66	54
5149.47	V	57.57	74	41.37	54

Test mode: 802.11a (antenna a) Frequency(MHz): 5240

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5300.28	H	44.75	74	30.64	54
5300.21	V	42.47	74	28.22	54

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



Test Mode:	TX(5.1G) - 802.11a
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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	4434.121	70.01	-20.73	49.28	68.2	-18.92	Pk
Vertical	4434.121	59.60	-20.73	38.87	54	-15.13	AV
Vertical	10360.155	61.16	-9.36	51.80	68.2	-16.40	Pk
Vertical	10360.155	49.51	-9.36	40.15	54	-13.85	AV
Vertical	15540.056	60.12	-7.84	52.28	74	-21.72	Pk
Vertical	15540.056	49.64	-7.84	41.80	54	-12.20	AV
Horizontal	4434.118	74.32	-20.73	53.59	68.2	-14.61	Pk
Horizontal	4434.118	59.38	-20.73	38.65	54	-15.35	AV
Horizontal	10360.105	62.63	-9.36	53.27	68.2	-14.93	Pk
Horizontal	10360.105	49.99	-9.36	40.63	54	-13.37	AV
Horizontal	15540.123	64.38	-7.84	56.54	74	-17.46	Pk
Horizontal	15540.123	49.43	-7.84	41.59	54	-12.41	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.044	70.03	-20.42	49.61	74	-24.39	Pk
Vertical	4592.044	59.77	-20.42	39.35	54	-14.65	AV
Vertical	10400.143	61.09	-9.30	51.79	68.2	-16.41	Pk
Vertical	10400.143	49.18	-9.30	39.88	54	-14.12	AV
Vertical	15600.190	62.19	-7.82	54.37	74	-19.63	Pk
Vertical	15600.190	49.39	-7.82	41.57	54	-12.43	AV
Horizontal	4592.056	73.30	-20.42	52.88	74	-21.12	Pk
Horizontal	4592.056	59.48	-20.42	39.06	54	-14.94	AV
Horizontal	10400.193	63.41	-9.30	54.11	68.2	-14.09	Pk
Horizontal	10400.193	49.18	-9.30	39.88	54	-14.12	AV
Horizontal	15600.107	62.12	-7.82	54.30	74	-19.70	Pk
Horizontal	15600.107	49.93	-7.82	42.11	54	-11.89	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.026	70.85	-20.12	50.73	74	-23.27	Pk
Vertical	4739.026	59.22	-20.12	39.10	54	-14.90	AV
Vertical	10480.030	62.68	-9.18	53.50	68.2	-14.70	Pk
Vertical	10480.030	49.95	-9.18	40.77	54	-13.23	AV
Vertical	15720.127	64.75	-7.78	56.97	74	-17.03	Pk
Vertical	15720.127	49.75	-7.78	41.97	54	-12.03	AV
Horizontal	4739.109	70.06	-20.12	49.94	74	-24.06	Pk
Horizontal	4739.109	59.09	-20.12	38.96	54	-15.04	AV
Horizontal	10480.132	61.91	-9.18	52.73	68.2	-15.47	Pk
Horizontal	10480.132	49.87	-9.18	40.69	54	-13.31	AV
Horizontal	15720.082	60.38	-7.78	52.60	74	-21.40	Pk
Horizontal	15720.082	49.53	-7.78	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.
 The worst case is Antenna A.

Test Mode:	TX(5.1G) - 802.11n-HT20
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.064	74.71	-20.73	53.97	68.2	-14.23	Pk
Vertical	4434.064	59.59	-20.73	38.86	54	-15.14	AV
Vertical	10360.007	63.41	-9.36	54.05	68.2	-14.15	Pk
Vertical	10360.007	49.71	-9.36	40.35	54	-13.65	AV
Vertical	15540.135	62.16	-7.84	54.32	74	-19.68	Pk
Vertical	15540.135	49.32	-7.84	41.48	54	-12.52	AV
Horizontal	4434.112	71.96	-20.73	51.23	68.2	-16.97	Pk
Horizontal	4434.112	59.06	-20.73	38.33	54	-15.67	AV
Horizontal	10360.122	61.92	-9.36	52.56	68.2	-15.64	Pk
Horizontal	10360.122	49.73	-9.36	40.37	54	-13.63	AV
Horizontal	15540.018	62.43	-7.84	54.59	74	-19.41	Pk
Horizontal	15540.018	49.91	-7.84	42.07	54	-11.93	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.047	70.46	-20.42	50.04	74	-23.96	Pk
Vertical	4592.047	59.40	-20.42	38.98	54	-15.02	AV
Vertical	10400.121	62.85	-9.30	53.55	68.2	-14.65	Pk
Vertical	10400.121	49.50	-9.30	40.20	54	-13.80	AV
Vertical	15600.198	60.74	-7.82	52.92	74	-21.08	Pk
Vertical	15600.198	49.72	-7.82	41.90	54	-12.10	AV
Horizontal	4592.159	70.16	-20.42	49.74	74	-24.26	Pk
Horizontal	4592.159	59.59	-20.42	39.17	54	-14.83	AV
Horizontal	10400.169	64.32	-9.30	55.02	68.2	-13.18	Pk
Horizontal	10400.169	49.89	-9.30	40.59	54	-13.41	AV
Horizontal	15600.049	63.41	-7.82	55.59	74	-18.41	Pk
Horizontal	15600.049	49.45	-7.82	41.63	54	-12.37	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.057	72.88	-20.12	52.76	74	-21.24	Pk
Vertical	4739.057	59.18	-20.12	39.06	54	-14.94	AV
Vertical	10480.102	61.50	-9.18	52.32	68.2	-15.88	Pk
Vertical	10480.102	49.92	-9.18	40.74	54	-13.26	AV
Vertical	15720.064	60.19	-7.78	52.41	74	-21.59	Pk
Vertical	15720.064	49.06	-7.78	41.28	54	-12.72	AV
Horizontal	4739.122	72.52	-20.12	52.40	74	-21.60	Pk
Horizontal	4739.122	59.62	-20.12	39.50	54	-14.50	AV
Horizontal	10480.142	60.75	-9.18	51.57	68.2	-16.63	Pk
Horizontal	10480.142	49.75	-9.18	40.57	54	-13.43	AV
Horizontal	15720.140	60.88	-7.78	53.10	74	-20.90	Pk
Horizontal	15720.140	49.35	-7.78	41.57	54	-12.43	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 is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11n-HT40
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.116	74.60	-20.73	53.87	68.2	-14.33	Pk
Vertical	4434.116	59.97	-20.73	39.24	54	-14.76	AV
Vertical	10380.160	62.29	-9.33	52.96	68.2	-15.24	Pk
Vertical	10380.160	49.27	-9.33	39.94	54	-14.06	AV
Vertical	15570.072	62.73	-7.83	54.90	74	-19.10	Pk
Vertical	15570.072	49.35	-7.83	41.52	54	-12.48	AV
Horizontal	4434.073	74.31	-20.73	53.58	74	-20.42	Pk
Horizontal	4434.073	59.24	-20.73	38.51	54	-15.49	AV
Horizontal	10380.015	62.42	-9.33	53.09	68.2	-15.11	Pk
Horizontal	10380.015	49.81	-9.33	40.48	54	-13.52	AV
Horizontal	15570.071	60.18	-7.83	52.35	74	-21.65	Pk
Horizontal	15570.071	49.64	-7.83	41.81	54	-12.19	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.188	71.91	-20.12	51.79	68.2	-16.41	Pk
Vertical	4739.188	59.12	-20.12	38.99	54	-15.01	AV
Vertical	10460.120	62.97	-9.21	53.76	68.2	-14.44	Pk
Vertical	10460.120	49.01	-9.21	39.80	54	-14.20	AV
Vertical	15690.166	64.67	-7.79	56.88	74	-17.12	Pk
Vertical	15690.166	49.29	-7.79	41.50	54	-12.50	AV
Horizontal	4739.151	73.36	-20.12	53.24	68.2	-14.96	Pk
Horizontal	4739.151	59.79	-20.12	39.67	54	-14.33	AV
Horizontal	10460.081	60.56	-9.21	51.35	68.2	-16.85	Pk
Horizontal	10460.081	49.90	-9.21	40.69	54	-13.31	AV
Horizontal	15690.043	60.31	-7.79	52.52	74	-21.48	Pk
Horizontal	15690.043	49.25	-7.79	41.46	54	-12.54	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	4434.031	73.78	-20.73	53.05	68.2	-15.15	Pk
Vertical	4434.031	59.49	-20.73	38.76	54	-15.24	AV
Vertical	10360.014	63.29	-9.36	53.93	68.2	-14.27	Pk
Vertical	10360.014	49.81	-9.36	40.45	54	-13.55	AV
Vertical	15540.186	62.59	-7.84	54.75	74	-19.25	Pk
Vertical	15540.186	49.65	-7.84	41.81	54	-12.19	AV
Horizontal	4434.147	74.96	-20.73	54.23	68.2	-13.97	Pk
Horizontal	4434.147	59.06	-20.73	38.32	54	-15.68	AV
Horizontal	10360.142	61.89	-9.36	52.53	68.2	-15.67	Pk
Horizontal	10360.142	49.68	-9.36	40.32	54	-13.68	AV
Horizontal	15540.011	61.05	-7.84	53.21	74	-20.79	Pk
Horizontal	15540.011	49.40	-7.84	41.56	54	-12.44	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.128	71.22	-20.42	50.81	74	-23.19	Pk
Vertical	4592.128	59.42	-20.42	39.00	54	-15.00	AV
Vertical	10400.001	61.82	-9.30	52.52	68.2	-15.68	Pk
Vertical	10400.001	49.93	-9.30	40.63	54	-13.37	AV
Vertical	15600.079	63.72	-7.82	55.90	74	-18.10	Pk
Vertical	15600.079	49.42	-7.82	41.60	54	-12.40	AV
Horizontal	4592.002	74.98	-20.42	54.57	74	-19.43	Pk
Horizontal	4592.002	59.34	-20.42	38.93	54	-15.07	AV
Horizontal	10400.091	63.36	-9.30	54.06	68.2	-14.14	Pk
Horizontal	10400.091	49.85	-9.30	40.55	54	-13.45	AV
Horizontal	15600.058	64.45	-7.82	56.63	74	-17.37	Pk
Horizontal	15600.058	49.44	-7.82	41.62	54	-12.38	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.055	74.30	-20.12	54.18	74	-19.82	Pk
Vertical	4739.055	59.74	-20.12	39.62	54	-14.38	AV
Vertical	10480.102	62.51	-9.18	53.33	68.2	-14.87	Pk
Vertical	10480.102	49.08	-9.18	39.90	54	-14.10	AV
Vertical	15720.051	61.53	-7.78	53.75	74	-20.25	Pk
Vertical	15720.051	49.27	-7.78	41.49	54	-12.51	AV
Horizontal	4739.010	72.69	-20.12	52.56	74	-21.44	Pk
Horizontal	4739.010	59.42	-20.12	39.29	54	-14.71	AV
Horizontal	10480.130	62.94	-9.18	53.76	68.2	-14.44	Pk
Horizontal	10480.130	49.52	-9.18	40.34	54	-13.66	AV
Horizontal	15720.159	62.99	-7.78	55.21	74	-18.79	Pk
Horizontal	15720.159	49.45	-7.78	41.67	54	-12.33	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 (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.200	74.70	-20.73	53.97	68.2	-14.23	Pk
Vertical	4434.200	59.01	-20.73	38.27	54	-15.73	AV
Vertical	10380.047	61.84	-9.33	52.51	68.2	-15.69	Pk
Vertical	10380.047	49.85	-9.33	40.52	54	-13.48	AV
Vertical	15570.003	64.51	-7.83	56.68	74	-17.32	Pk
Vertical	15570.003	49.02	-7.83	41.19	54	-12.81	AV
Horizontal	4434.143	71.67	-20.73	50.94	74	-23.06	Pk
Horizontal	4434.143	59.97	-20.73	39.24	54	-14.76	AV
Horizontal	10380.131	62.85	-9.33	53.52	68.2	-14.68	Pk
Horizontal	10380.131	49.52	-9.33	40.19	54	-13.81	AV
Horizontal	15570.037	63.50	-7.83	55.67	74	-18.33	Pk
Horizontal	15570.037	49.32	-7.83	41.49	54	-12.51	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.018	73.20	-20.12	53.08	68.2	-15.12	Pk
Vertical	4739.018	59.52	-20.12	39.40	54	-14.60	AV
Vertical	10460.033	61.47	-9.21	52.26	68.2	-15.94	Pk
Vertical	10460.033	49.75	-9.21	40.54	54	-13.46	AV
Vertical	15690.189	63.53	-7.79	55.74	74	-18.26	Pk
Vertical	15690.189	49.62	-7.79	41.83	54	-12.17	AV
Horizontal	4739.186	71.19	-20.12	51.06	68.2	-17.14	Pk
Horizontal	4739.186	59.49	-20.12	39.37	54	-14.63	AV
Horizontal	10460.115	63.21	-9.21	54.00	68.2	-14.20	Pk
Horizontal	10460.115	49.87	-9.21	40.66	54	-13.34	AV
Horizontal	15690.058	64.99	-7.79	57.20	74	-16.80	Pk
Horizontal	15690.058	49.05	-7.79	41.26	54	-12.74	AV

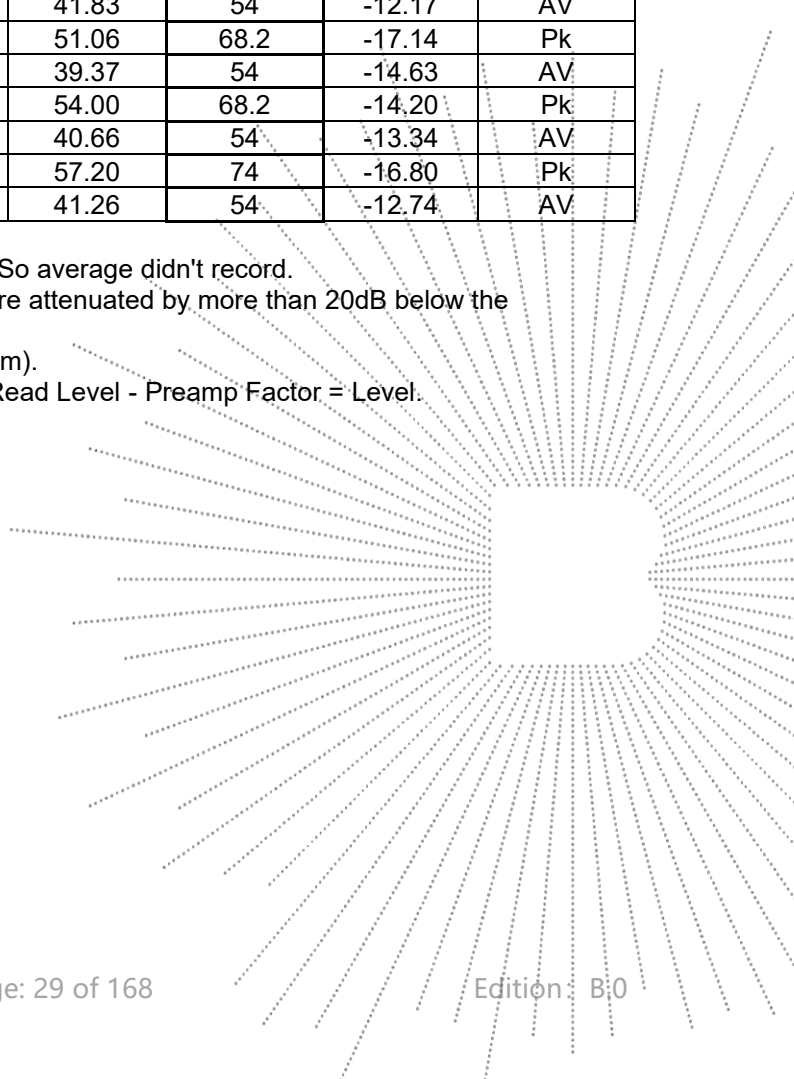
Note: PK value is lower than the Average value limit, So average didn't record.

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

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

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

Test Mode is MIMO Mode.



Test Mode:	TX(5.1G) - 802.11ac 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	4434.114	70.65	-20.73	49.92	68.2	-18.28	Pk
Vertical	4434.114	59.68	-20.73	38.94	54	-15.06	AV
Vertical	10420.106	60.37	-9.27	51.10	68.2	-17.10	Pk
Vertical	10420.106	49.48	-9.27	40.21	54	-13.79	AV
Vertical	15630.092	60.40	-7.81	52.59	74	-21.41	Pk
Vertical	15630.092	49.52	-7.81	41.71	54	-12.29	AV
Horizontal	4434.062	73.73	-20.73	53.00	68.2	-15.20	Pk
Horizontal	4434.062	59.98	-20.73	39.25	54	-14.75	AV
Horizontal	10420.118	60.49	9.27	69.76	68.2	1.56	Pk
Horizontal	10420.118	49.74	9.27	59.01	54	5.01	AV
Horizontal	15630.190	60.19	-7.81	52.38	74	-21.62	Pk
Horizontal	15630.190	49.80	-7.81	41.99	54	-12.01	AV

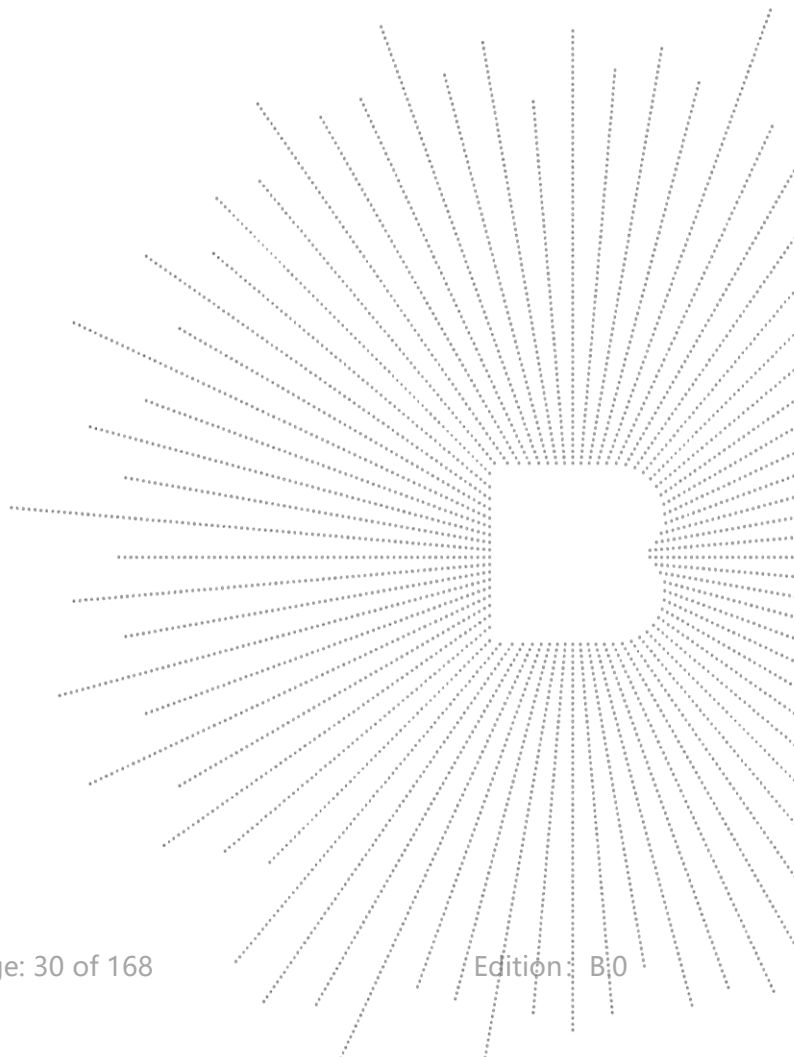
Note: PK value is lower than the Average value limit, So average didn't record.

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 (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.110	72.28	-20.73	51.55	68.2	-16.65	Pk
Vertical	4434.110	59.88	-20.73	39.15	54	-14.85	AV
Vertical	10360.125	64.33	-9.36	54.97	68.2	-13.23	Pk
Vertical	10360.125	49.83	-9.36	40.47	54	-13.53	AV
Vertical	15540.076	63.63	-7.84	55.79	74	-18.21	Pk
Vertical	15540.076	49.32	-7.84	41.48	54	-12.52	AV
Horizontal	4434.194	74.26	-20.73	53.53	68.2	-14.67	Pk
Horizontal	4434.194	59.79	-20.73	39.06	54	-14.94	AV
Horizontal	10360.102	62.38	-9.36	53.02	68.2	-15.18	Pk
Horizontal	10360.102	49.27	-9.36	39.91	54	-14.09	AV
Horizontal	15540.052	64.74	-7.84	56.90	74	-17.10	Pk
Horizontal	15540.052	49.12	-7.84	41.28	54	-12.72	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.128	74.27	-20.42	53.86	74	-20.14	Pk
Vertical	4592.128	59.63	-20.42	39.21	54	-14.79	AV
Vertical	10400.049	63.64	-9.30	54.34	68.2	-13.86	Pk
Vertical	10400.049	49.84	-9.30	40.54	54	-13.46	AV
Vertical	15600.129	60.91	-7.82	53.09	74	-20.91	Pk
Vertical	15600.129	49.93	-7.82	42.11	54	-11.89	AV
Horizontal	4592.058	71.49	-20.42	51.07	74	-22.93	Pk
Horizontal	4592.058	59.67	-20.42	39.26	54	-14.74	AV
Horizontal	10400.081	63.27	-9.30	53.97	68.2	-14.23	Pk
Horizontal	10400.081	49.29	-9.30	39.99	54	-14.01	AV
Horizontal	15600.041	64.48	-7.82	56.66	74	-17.34	Pk
Horizontal	15600.041	49.57	-7.82	41.75	54	-12.25	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.188	72.13	-20.12	52.01	74	-21.99	Pk
Vertical	4739.188	59.77	-20.12	39.65	54	-14.35	AV
Vertical	10480.106	60.36	-9.18	51.18	68.2	-17.02	Pk
Vertical	10480.106	49.11	-9.18	39.93	54	-14.07	AV
Vertical	15720.056	64.21	-7.78	56.43	74	-17.57	Pk
Vertical	15720.056	49.07	-7.78	41.29	54	-12.71	AV
Horizontal	4739.079	73.45	-20.12	53.33	74	-20.67	Pk
Horizontal	4739.079	59.94	-20.12	39.82	54	-14.18	AV
Horizontal	10480.199	64.37	-9.18	55.19	68.2	-13.01	Pk
Horizontal	10480.199	49.71	-9.18	40.53	54	-13.47	AV
Horizontal	15720.007	64.14	-7.78	56.36	74	-17.64	Pk
Horizontal	15720.007	49.89	-7.78	42.11	54	-11.89	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 (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.117	70.77	-20.73	50.04	68.2	-18.16	Pk
Vertical	4434.117	59.15	-20.73	38.42	54	-15.58	AV
Vertical	10380.022	63.14	-9.33	53.81	68.2	-14.39	Pk
Vertical	10380.022	49.03	-9.33	39.70	54	-14.30	AV
Vertical	15570.123	60.54	-7.83	52.71	74	-21.29	Pk
Vertical	15570.123	49.48	-7.83	41.65	54	-12.35	AV
Horizontal	4434.151	73.19	-20.73	52.46	74	-21.54	Pk
Horizontal	4434.151	59.78	-20.73	39.05	54	-14.95	AV
Horizontal	10380.067	62.15	-9.33	52.82	68.2	-15.38	Pk
Horizontal	10380.067	49.58	-9.33	40.25	54	-13.75	AV
Horizontal	15570.039	62.89	-7.83	55.06	74	-18.94	Pk
Horizontal	15570.039	49.89	-7.83	42.06	54	-11.94	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.189	72.90	-20.12	52.78	68.2	-15.42	Pk
Vertical	4739.189	59.86	-20.12	39.73	54	-14.27	AV
Vertical	10460.150	61.54	-9.21	52.33	68.2	-15.87	Pk
Vertical	10460.150	49.18	-9.21	39.97	54	-14.03	AV
Vertical	15690.180	63.08	-7.79	55.29	74	-18.71	Pk
Vertical	15690.180	49.18	-7.79	41.39	54	-12.61	AV
Horizontal	4739.189	73.87	-20.12	53.75	68.2	-14.45	Pk
Horizontal	4739.189	59.15	-20.12	39.03	54	-14.97	AV
Horizontal	10460.053	60.18	-9.21	50.97	68.2	-17.23	Pk
Horizontal	10460.053	49.43	-9.21	40.22	54	-13.78	AV
Horizontal	15690.085	63.70	-7.79	55.91	74	-18.09	Pk
Horizontal	15690.085	49.92	-7.79	42.13	54	-11.87	AV

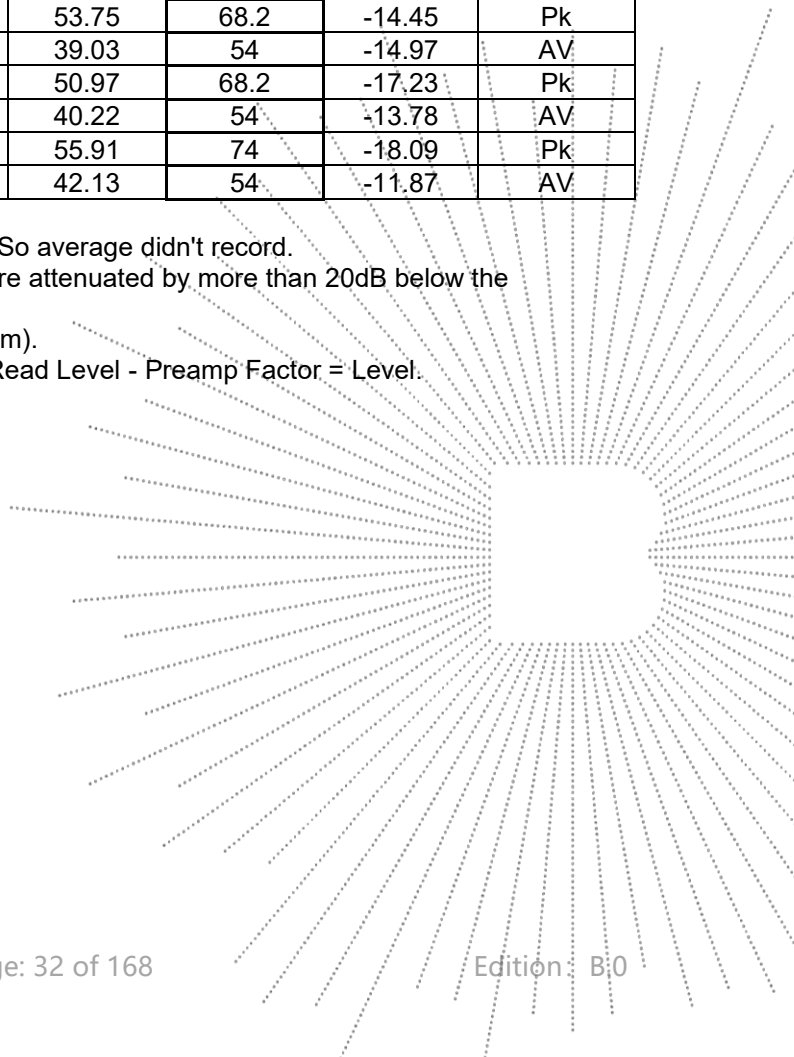
Note: PK value is lower than the Average value limit, So average didn't record.

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.

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	4434.189	73.06	-20.73	52.33	68.2	-15.87	Pk
Vertical	4434.189	59.43	-20.73	38.70	54	-15.30	AV
Vertical	10420.049	61.85	-9.27	52.58	68.2	-15.62	Pk
Vertical	10420.049	49.82	-9.27	40.55	54	-13.45	AV
Vertical	15630.049	61.56	-7.81	53.75	74	-20.25	Pk
Vertical	15630.049	49.12	-7.81	41.31	54	-12.69	AV
Horizontal	4434.014	71.75	-20.73	51.02	68.2	-17.18	Pk
Horizontal	4434.014	59.95	-20.73	39.22	54	-14.78	AV
Horizontal	10420.158	61.08	9.27	70.35	68.2	2.15	Pk
Horizontal	10420.158	49.28	9.27	58.55	54	4.55	AV
Horizontal	15630.086	62.22	-7.81	54.41	74	-19.59	Pk
Horizontal	15630.086	49.64	-7.81	41.83	54	-12.17	AV

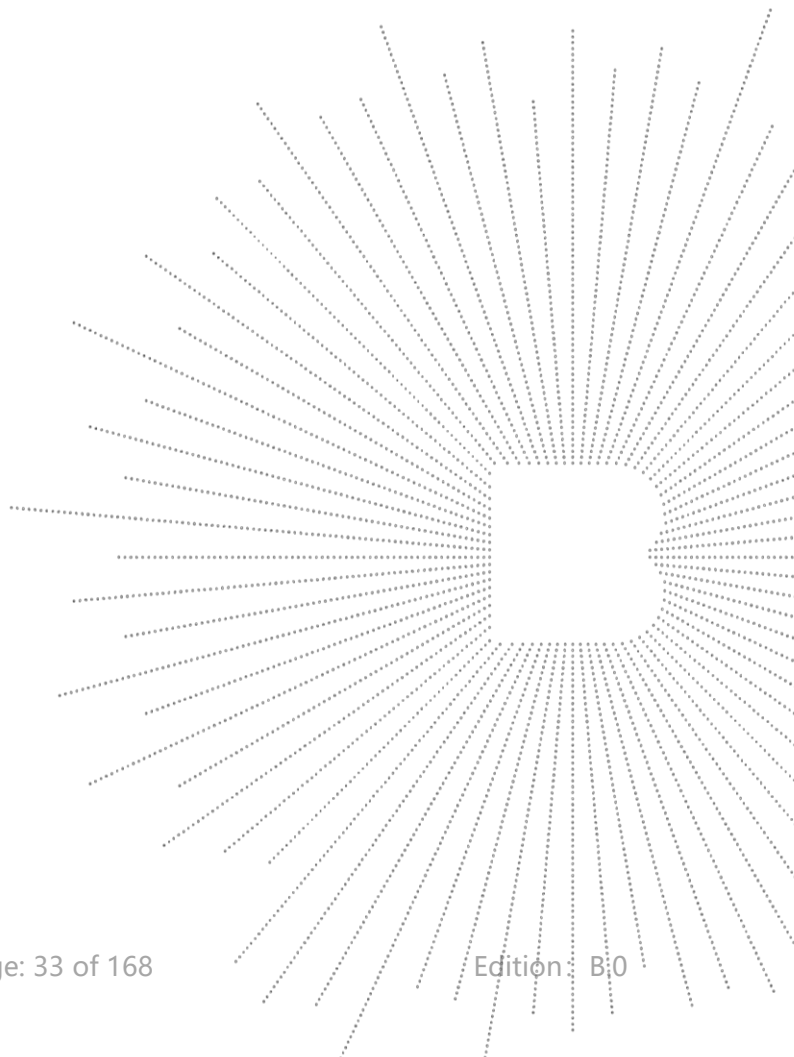
Note: PK value is lower than the Average value limit, So average didn't record.

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	4679.151	74.24	-20.24	53.99	74	-20.01	Pk
Vertical	4679.151	59.94	-20.24	39.70	54	-14.30	AV
Vertical	11490.064	62.11	-8.79	53.32	68.2	-14.88	Pk
Vertical	11490.064	49.55	-8.79	40.76	54	-13.24	AV
Vertical	17235.165	59.13	-3.18	55.95	68.2	-12.25	Pk
Vertical	17235.165	44.31	-3.18	41.13	54	-12.87	AV
Horizontal	4679.002	71.42	-20.73	50.69	74	-23.31	Pk
Horizontal	4679.002	59.67	-20.73	38.94	54	-15.06	AV
Horizontal	11490.082	62.26	-8.79	53.47	68.2	-14.73	Pk
Horizontal	11490.082	49.09	-8.79	40.30	54	-13.70	AV
Horizontal	17235.059	56.48	-3.18	53.30	68.2	-14.90	Pk
Horizontal	17235.059	44.76	-3.18	41.58	54	-12.42	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.157	72.67	-20.42	52.26	74	-21.74	Pk
Vertical	4592.157	59.59	-20.42	39.18	54	-14.82	AV
Vertical	11570.146	63.32	-8.86	54.46	68.2	-13.74	Pk
Vertical	11570.146	49.99	-8.86	41.13	54	-12.87	AV
Vertical	17355.100	56.55	-2.52	54.03	68.2	-14.17	Pk
Vertical	17355.100	44.40	-2.52	41.88	54	-12.12	AV
Horizontal	4592.032	74.15	-20.42	53.73	74	-20.27	Pk
Horizontal	4592.032	59.84	-20.42	39.43	54	-14.57	AV
Horizontal	11570.199	60.80	-8.86	51.94	68.2	-16.26	Pk
Horizontal	11570.199	49.32	-8.86	40.46	54	-13.54	AV
Horizontal	17355.067	56.65	-2.52	54.13	68.2	-14.07	Pk
Horizontal	17355.067	44.85	-2.52	42.33	54	-11.67	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.095	71.26	-18.93	52.33	68.2	-15.87	Pk
Vertical	6039.095	59.47	-18.93	40.53	54	-13.47	AV
Vertical	11650.195	61.82	-8.92	52.90	74	-21.10	Pk
Vertical	11650.195	49.81	-8.92	40.89	54	-13.11	AV
Vertical	17475.142	56.47	-1.86	54.61	68.2	-13.59	Pk
Vertical	17475.142	44.21	-1.86	42.35	54	-11.65	AV
Horizontal	6039.092	74.70	-18.93	55.77	68.2	-12.43	Pk
Horizontal	6039.092	59.28	-18.93	40.35	54	-13.65	AV
Horizontal	11650.065	64.86	-8.92	55.94	74	-18.06	Pk
Horizontal	11650.065	49.24	-8.92	40.32	54	-13.68	AV
Horizontal	17475.152	58.05	-1.86	56.19	68.2	-12.01	Pk
Horizontal	17475.152	44.70	-1.86	42.84	54	-11.16	AV

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

Test Mode:	TX (5.8G) --802.11n-HT20
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.047	73.30	-20.24	53.06	74	-20.94	Pk
Vertical	4679.047	59.28	-20.24	39.04	54	-14.96	AV
Vertical	11490.100	60.56	-8.79	51.77	68.2	-16.43	Pk
Vertical	11490.100	49.50	-8.79	40.71	54	-13.29	AV
Vertical	17235.192	56.27	-3.18	53.09	68.2	-15.11	Pk
Vertical	17235.192	44.13	-3.18	40.95	54	-13.05	AV
Horizontal	4679.077	70.60	-20.24	50.36	74	-23.64	Pk
Horizontal	4679.077	59.15	-20.24	38.91	54	-15.09	AV
Horizontal	11490.009	62.45	-8.79	53.66	68.2	-14.54	Pk
Horizontal	11490.009	49.46	-8.79	40.67	54	-13.33	AV
Horizontal	17235.043	57.55	-3.18	54.37	68.2	-13.83	Pk
Horizontal	17235.043	44.08	-3.18	40.90	54	-13.10	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.044	72.18	-20.42	51.76	74	-22.24	Pk
Vertical	4592.044	59.94	-20.42	39.52	54	-14.48	AV
Vertical	11570.028	64.25	-8.86	55.39	68.2	-12.81	Pk
Vertical	11570.028	49.86	-8.86	41.00	54	-13.00	AV
Vertical	17355.150	58.57	-2.52	56.05	68.2	-12.15	Pk
Vertical	17355.150	44.23	-2.52	41.71	54	-12.29	AV
Horizontal	4592.033	72.06	-20.42	51.64	74	-22.36	Pk
Horizontal	4592.033	59.03	-20.42	38.61	54	-15.39	AV
Horizontal	11570.032	64.93	-8.86	56.07	68.2	-12.13	Pk
Horizontal	11570.032	49.40	-8.86	40.54	54	-13.46	AV
Horizontal	17355.158	58.97	-2.52	56.45	68.2	-11.75	Pk
Horizontal	17355.158	44.31	-2.52	41.79	54	-12.21	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.108	74.13	-18.93	55.20	68.2	-13.00	Pk
Vertical	6039.108	59.77	-18.93	40.84	54	-13.16	AV
Vertical	11650.081	61.16	-8.92	52.24	74	-21.76	Pk
Vertical	11650.081	49.15	-8.92	40.23	54	-13.77	AV
Vertical	17475.073	56.62	-1.86	54.76	68.2	-13.44	Pk
Vertical	17475.073	44.25	-1.86	42.39	54	-11.61	AV
Horizontal	6039.125	72.94	-18.93	54.01	68.2	-14.19	Pk
Horizontal	6039.125	59.49	-18.93	40.55	54	-13.45	AV
Horizontal	11650.032	64.64	-8.92	55.72	74	-18.28	Pk
Horizontal	11650.032	49.36	-8.92	40.44	54	-13.56	AV
Horizontal	17475.056	57.40	-1.86	55.54	68.2	-12.66	Pk
Horizontal	17475.056	44.73	-1.86	42.87	54	-11.13	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 (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.123	72.81	-20.24	52.57	74	-21.43	Pk
Vertical	4679.123	59.51	-20.24	39.27	54	-14.73	AV
Vertical	11510.195	61.19	-8.81	52.38	74	-21.62	Pk
Vertical	11510.195	49.98	-8.81	41.17	54	-12.83	AV
Vertical	17265.167	58.47	-3.01	55.46	68.2	-12.74	Pk
Vertical	17265.167	44.70	-3.01	41.69	54	-12.31	AV
Horizontal	4679.091	71.46	-20.24	51.22	74	-22.78	Pk
Horizontal	4679.091	59.53	-20.24	39.29	54	-14.71	AV
Horizontal	11510.111	61.43	-8.81	52.62	74	-21.38	Pk
Horizontal	11510.111	49.41	-8.81	40.60	54	-13.40	AV
Horizontal	17265.027	55.02	-3.01	52.01	68.2	-16.19	Pk
Horizontal	17265.027	44.24	-3.01	41.23	54	-12.77	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.112	74.76	-18.93	55.82	68.2	-12.38	Pk
Vertical	6039.112	59.34	-18.93	40.41	54	-13.59	AV
Vertical	11590.146	62.75	-8.87	53.88	74	-20.12	Pk
Vertical	11590.146	49.98	-8.87	41.11	54	-12.89	AV
Vertical	17385.028	57.84	-2.35	55.49	68.2	-12.71	Pk
Vertical	17385.028	44.53	-2.35	42.18	54	-11.82	AV
Horizontal	6039.033	70.64	-18.93	51.70	68.2	-16.50	Pk
Horizontal	6039.033	59.51	-18.93	40.58	54	-13.42	AV
Horizontal	11590.089	64.58	-8.87	55.71	74	-18.29	Pk
Horizontal	11590.089	49.78	-8.87	40.91	54	-13.09	AV
Horizontal	17385.089	55.38	-2.35	53.03	68.2	-15.17	Pk
Horizontal	17385.089	44.73	-2.35	42.38	54	-11.62	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
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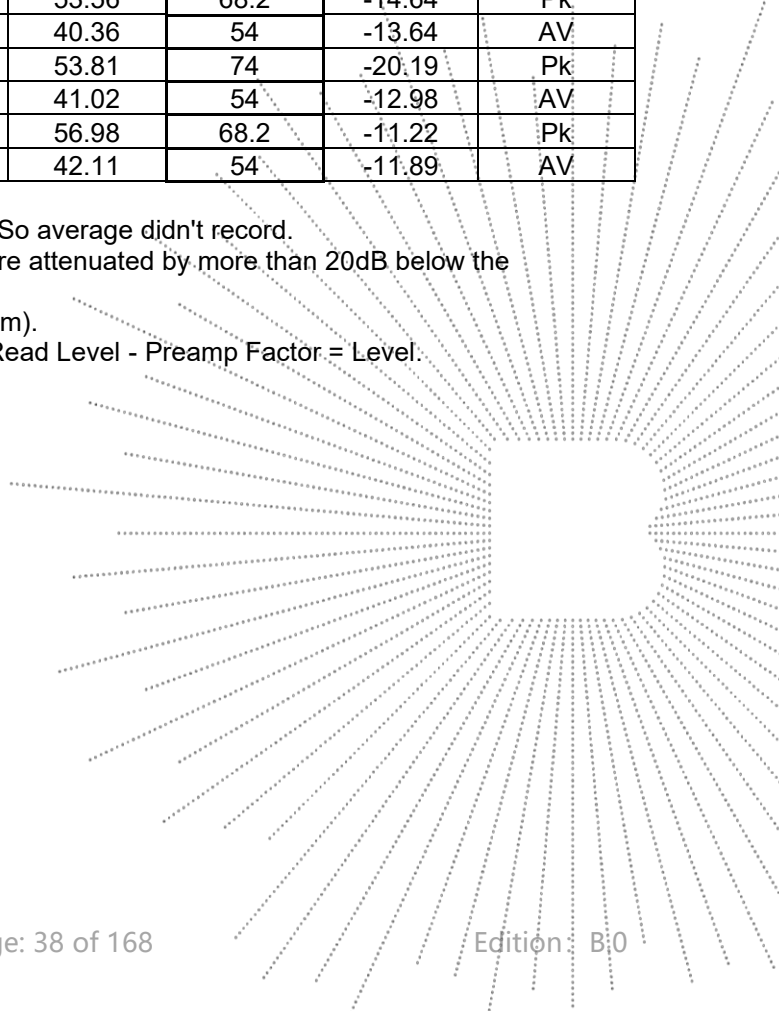
Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.025	72.98	-20.24	52.74	74	-21.26	Pk
Vertical	4679.025	59.88	-20.24	39.64	54	-14.36	AV
Vertical	11490.175	62.31	-8.79	53.52	68.2	-14.68	Pk
Vertical	11490.175	49.55	-8.79	40.76	54	-13.24	AV
Vertical	17235.125	55.88	-3.18	52.70	68.2	-15.50	Pk
Vertical	17235.125	44.01	-3.18	40.83	54	-13.17	AV
Horizontal	4679.190	72.53	-20.24	52.29	74	-21.71	Pk
Horizontal	4679.190	59.82	-20.24	39.58	54	-14.42	AV
Horizontal	11490.087	64.83	-8.79	56.04	68.2	-12.16	Pk
Horizontal	11490.087	49.88	-8.79	41.09	54	-12.91	AV
Horizontal	17235.178	58.39	-3.18	55.21	68.2	-12.99	Pk
Horizontal	17235.178	44.79	-3.18	41.61	54	-12.39	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.095	73.25	-20.42	52.83	74	-21.17	Pk
Vertical	4592.095	59.33	-20.42	38.92	54	-15.08	AV
Vertical	11570.136	63.70	-8.86	54.84	68.2	-13.36	Pk
Vertical	11570.136	49.84	-8.86	40.98	54	-13.02	AV
Vertical	17355.059	58.68	-2.52	56.16	68.2	-12.04	Pk
Vertical	17355.059	44.07	-2.52	41.55	54	-12.45	AV
Horizontal	4592.107	70.30	-20.42	49.89	74	-24.11	Pk
Horizontal	4592.107	59.15	-20.42	38.73	54	-15.27	AV
Horizontal	11570.053	62.57	-8.86	53.71	68.2	-14.49	Pk
Horizontal	11570.053	49.58	-8.86	40.72	54	-13.28	AV
Horizontal	17355.100	55.30	-2.52	52.78	68.2	-15.42	Pk
Horizontal	17355.100	44.10	-2.52	41.58	54	-12.42	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.156	73.96	-18.93	55.03	68.2	-13.17	Pk
Vertical	6039.156	59.09	-18.93	40.16	54	-13.84	AV
Vertical	11650.135	60.85	-8.92	51.93	74	-22.07	Pk
Vertical	11650.135	49.97	-8.92	41.05	54	-12.95	AV
Vertical	17475.007	56.88	-1.86	55.02	68.2	-13.18	Pk
Vertical	17475.007	44.05	-1.86	42.19	54	-11.81	AV
Horizontal	6039.190	72.51	-18.93	53.58	68.2	-14.62	Pk
Horizontal	6039.190	59.33	-18.93	40.40	54	-13.60	AV
Horizontal	11650.090	62.28	-8.92	53.36	74	-20.64	Pk
Horizontal	11650.090	49.33	-8.92	40.41	54	-13.59	AV
Horizontal	17475.075	57.27	-1.86	55.41	68.2	-12.79	Pk
Horizontal	17475.075	44.35	-1.86	42.49	54	-11.51	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 (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.002	70.49	-20.24	50.25	74	-23.75	Pk
Vertical	4679.002	59.08	-20.24	38.84	54	-15.16	AV
Vertical	11510.131	60.89	-8.81	52.08	74	-21.92	Pk
Vertical	11510.131	49.34	-8.81	40.53	54	-13.47	AV
Vertical	17265.050	57.96	-3.01	54.95	68.2	-13.25	Pk
Vertical	17265.050	44.56	-3.01	41.55	54	-12.45	AV
Horizontal	4679.049	70.82	-20.24	50.58	74	-23.42	Pk
Horizontal	4679.049	59.07	-20.24	38.83	54	-15.17	AV
Horizontal	11510.120	61.59	-8.81	52.78	74	-21.22	Pk
Horizontal	11510.120	49.60	-8.81	40.79	54	-13.21	AV
Horizontal	17265.090	57.22	-3.01	54.21	68.2	-13.99	Pk
Horizontal	17265.090	44.22	-3.01	41.21	54	-12.79	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.088	73.44	-18.93	54.50	68.2	-13.70	Pk
Vertical	6039.088	59.60	-18.93	40.67	54	-13.33	AV
Vertical	11590.159	64.28	-8.87	55.41	74	-18.59	Pk
Vertical	11590.159	49.76	-8.87	40.89	54	-13.11	AV
Vertical	17385.167	59.13	-2.35	56.78	68.2	-11.42	Pk
Vertical	17385.167	44.80	-2.35	42.45	54	-11.55	AV
Horizontal	6039.150	72.49	-18.93	53.56	68.2	-14.64	Pk
Horizontal	6039.150	59.29	-18.93	40.36	54	-13.64	AV
Horizontal	11590.073	62.68	-8.87	53.81	74	-20.19	Pk
Horizontal	11590.073	49.89	-8.87	41.02	54	-12.98	AV
Horizontal	17385.105	59.33	-2.35	56.98	68.2	-11.22	Pk
Horizontal	17385.105	44.46	-2.35	42.11	54	-11.89	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 (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5775 MHz)-Above 1G							
Vertical	4679.142	70.21	-20.24	49.97	74	-24.03	Pk
Vertical	4679.142	59.66	-20.24	39.42	54	-14.58	AV
Vertical	11550.049	61.22	-8.84	52.38	74	-21.62	Pk
Vertical	11550.049	49.21	-8.84	40.37	54	-13.63	AV
Vertical	17325.104	58.58	-2.68	55.90	68.2	-12.30	Pk
Vertical	17325.104	44.20	-2.68	41.52	54	-12.48	AV
Horizontal	4679.102	71.40	-20.24	51.16	74	-22.84	Pk
Horizontal	4679.102	59.49	-20.24	39.25	54	-14.75	AV
Horizontal	11550.007	64.08	-8.84	55.24	74	-18.76	Pk
Horizontal	11550.007	49.99	-8.84	41.15	54	-12.85	AV
Horizontal	17325.066	57.44	-2.68	54.76	68.2	-13.44	Pk
Horizontal	17325.066	44.72	-2.68	42.04	54	-11.96	AV

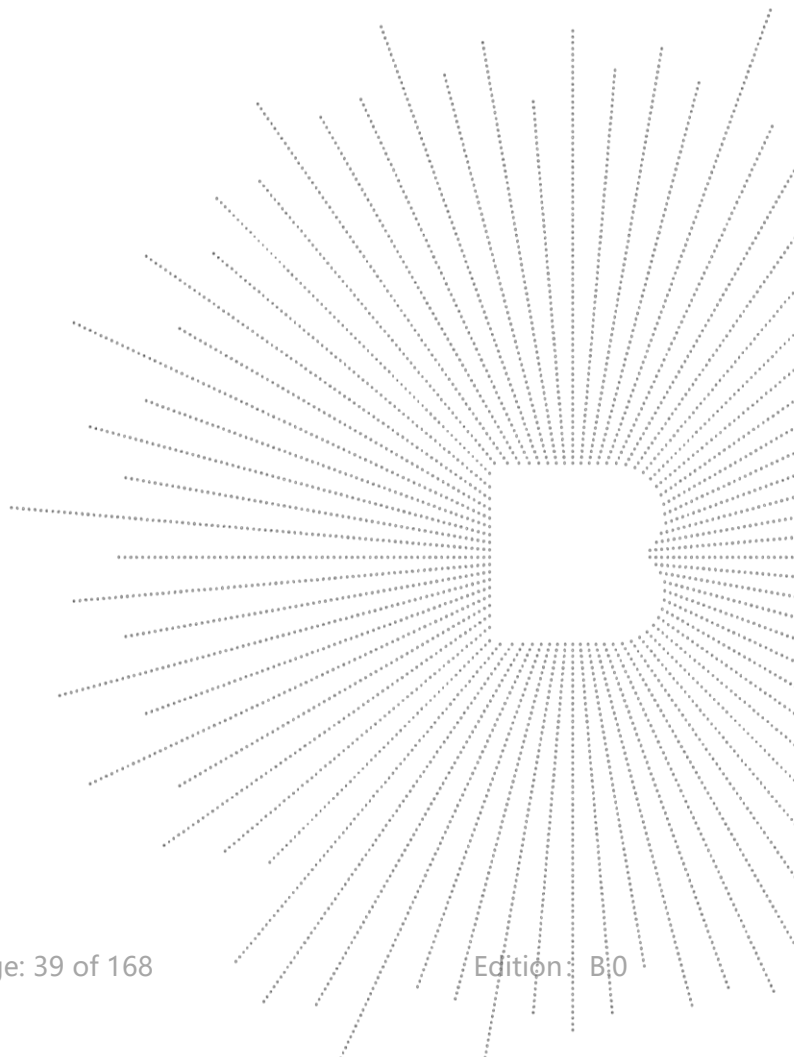
Note: PK value is lower than the Average value limit, So average didn't record.

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	4679.043	73.19	-20.24	52.94	74	-21.06	Pk
Vertical	4679.043	59.11	-20.24	38.87	54	-15.13	AV
Vertical	11490.124	61.18	-8.79	52.39	68.2	-15.81	Pk
Vertical	11490.124	49.61	-8.79	40.82	54	-13.18	AV
Vertical	17235.174	58.07	-3.18	54.89	68.2	-13.31	Pk
Vertical	17235.174	44.41	-3.18	41.23	54	-12.77	AV
Horizontal	4679.143	72.81	-20.24	52.57	74	-21.43	Pk
Horizontal	4679.143	59.60	-20.24	39.35	54	-14.65	AV
Horizontal	11490.032	63.10	-8.79	54.31	68.2	-13.89	Pk
Horizontal	11490.032	49.63	-8.79	40.84	54	-13.16	AV
Horizontal	17235.078	55.55	-3.18	52.37	68.2	-15.83	Pk
Horizontal	17235.078	44.27	-3.18	41.09	54	-12.91	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.113	70.33	-20.42	49.92	74	-24.08	Pk
Vertical	4592.113	59.61	-20.42	39.20	54	-14.80	AV
Vertical	11570.159	62.56	-8.86	53.70	68.2	-14.50	Pk
Vertical	11570.159	49.51	-8.86	40.65	54	-13.35	AV
Vertical	17355.072	57.21	-2.52	54.69	68.2	-13.51	Pk
Vertical	17355.072	44.66	-2.52	42.14	54	-11.86	AV
Horizontal	4592.139	72.69	-20.42	52.28	74	-21.72	Pk
Horizontal	4592.139	59.77	-20.42	39.36	54	-14.64	AV
Horizontal	11570.110	61.95	-8.86	53.09	68.2	-15.11	Pk
Horizontal	11570.110	49.35	-8.86	40.49	54	-13.51	AV
Horizontal	17355.168	59.97	-2.52	57.45	68.2	-10.75	Pk
Horizontal	17355.168	44.58	-2.52	42.06	54	-11.94	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.190	74.33	-18.93	55.39	68.2	-12.81	Pk
Vertical	6039.190	59.91	-18.93	40.98	54	-13.02	AV
Vertical	11650.076	64.09	-8.92	55.17	74	-18.83	Pk
Vertical	11650.076	49.12	-8.92	40.20	54	-13.80	AV
Vertical	17475.043	56.29	-1.86	54.43	68.2	-13.77	Pk
Vertical	17475.043	44.13	-1.86	42.27	54	-11.73	AV
Horizontal	6039.151	74.65	-18.93	55.72	68.2	-12.48	Pk
Horizontal	6039.151	59.62	-18.93	40.68	54	-13.32	AV
Horizontal	11650.102	60.65	-8.92	51.73	74	-22.27	Pk
Horizontal	11650.102	49.09	-8.92	40.17	54	-13.83	AV
Horizontal	17475.047	55.51	-1.86	53.65	68.2	-14.55	Pk
Horizontal	17475.047	44.44	-1.86	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) -- 802.11ax-HT40
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.181	74.26	-20.24	54.02	74	-19.98	Pk
Vertical	4679.181	59.89	-20.24	39.65	54	-14.35	AV
Vertical	11510.036	64.22	-8.81	55.41	74	-18.59	Pk
Vertical	11510.036	49.77	-8.81	40.96	54	-13.04	AV
Vertical	17265.045	55.12	-3.01	52.11	68.2	-16.09	Pk
Vertical	17265.045	44.11	-3.01	41.10	54	-12.90	AV
Horizontal	4679.199	71.68	-20.24	51.44	74	-22.56	Pk
Horizontal	4679.199	59.07	-20.24	38.83	54	-15.17	AV
Horizontal	11510.088	63.10	-8.81	54.29	74	-19.71	Pk
Horizontal	11510.088	49.91	-8.81	41.10	54	-12.90	AV
Horizontal	17265.181	59.60	-3.01	56.59	68.2	-11.61	Pk
Horizontal	17265.181	44.76	-3.01	41.75	54	-12.25	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.176	72.35	-18.93	53.42	68.2	-14.78	Pk
Vertical	6039.176	59.03	-18.93	40.10	54	-13.90	AV
Vertical	11590.089	63.33	-8.87	54.46	74	-19.54	Pk
Vertical	11590.089	49.54	-8.87	40.67	54	-13.33	AV
Vertical	17385.061	57.13	-2.35	54.78	68.2	-13.42	Pk
Vertical	17385.061	44.34	-2.35	41.99	54	-12.01	AV
Horizontal	6039.020	70.61	-18.93	51.68	68.2	-16.52	Pk
Horizontal	6039.020	59.84	-18.93	40.90	54	-13.10	AV
Horizontal	11590.083	61.34	-8.87	52.47	74	-21.53	Pk
Horizontal	11590.083	49.58	-8.87	40.71	54	-13.29	AV
Horizontal	17385.141	55.02	-2.35	52.67	68.2	-15.53	Pk
Horizontal	17385.141	44.76	-2.35	42.41	54	-11.59	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 (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5775 MHz)-Above 1G							
Vertical	4679.026	73.29	-20.24	53.05	74	-20.95	Pk
Vertical	4679.026	59.77	-20.24	39.53	54	-14.47	AV
Vertical	11550.126	63.39	-8.84	54.55	74	-19.45	Pk
Vertical	11550.126	49.21	-8.84	40.37	54	-13.63	AV
Vertical	17325.178	58.75	-2.68	56.07	68.2	-12.13	Pk
Vertical	17325.178	44.83	-2.68	42.15	54	-11.85	AV
Horizontal	4679.033	74.33	-20.24	54.09	74	-19.91	Pk
Horizontal	4679.033	59.40	-20.24	39.16	54	-14.84	AV
Horizontal	11550.198	63.58	-8.84	54.74	74	-19.26	Pk
Horizontal	11550.198	49.46	-8.84	40.62	54	-13.38	AV
Horizontal	17325.001	57.17	-2.68	54.49	68.2	-13.71	Pk
Horizontal	17325.001	44.68	-2.68	42.00	54	-12.00	AV

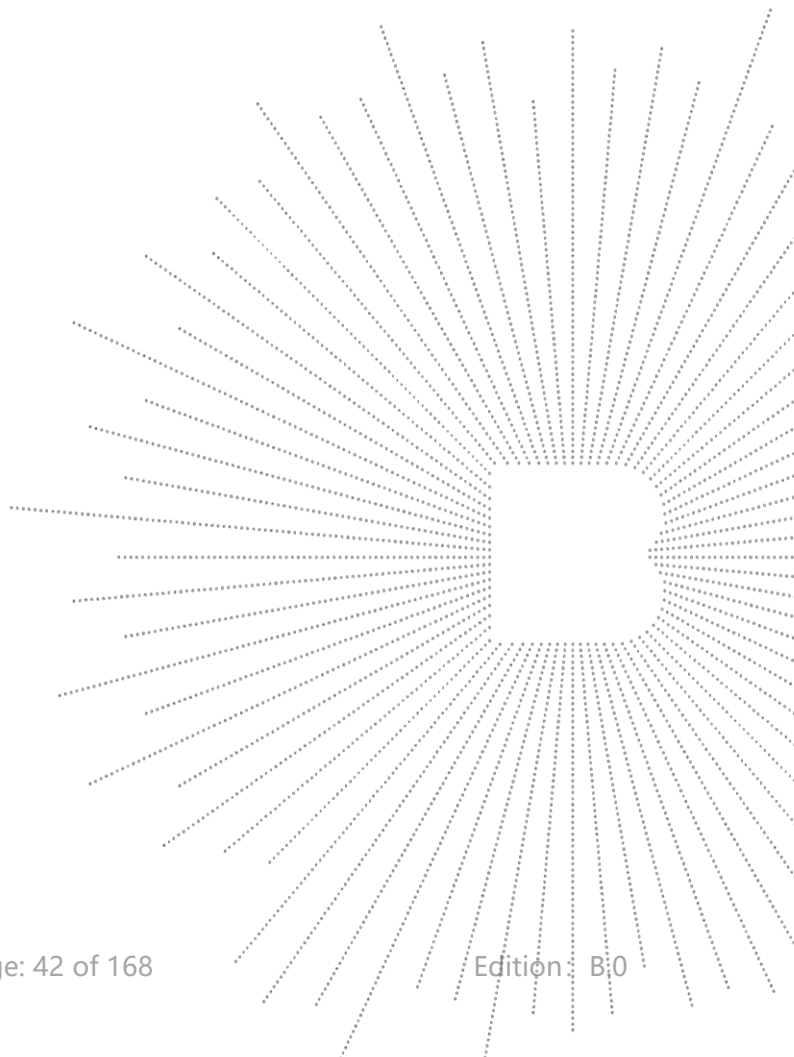
Note: PK value is lower than the Average value limit, So average didn't record.

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

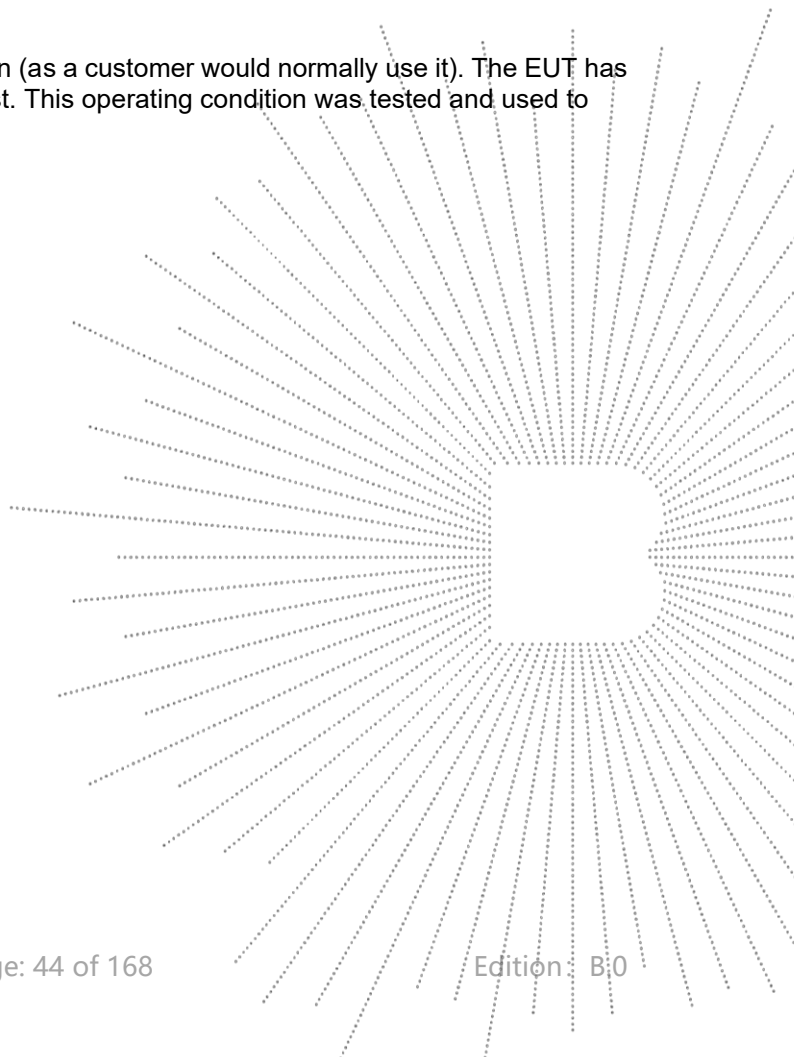
For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 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.

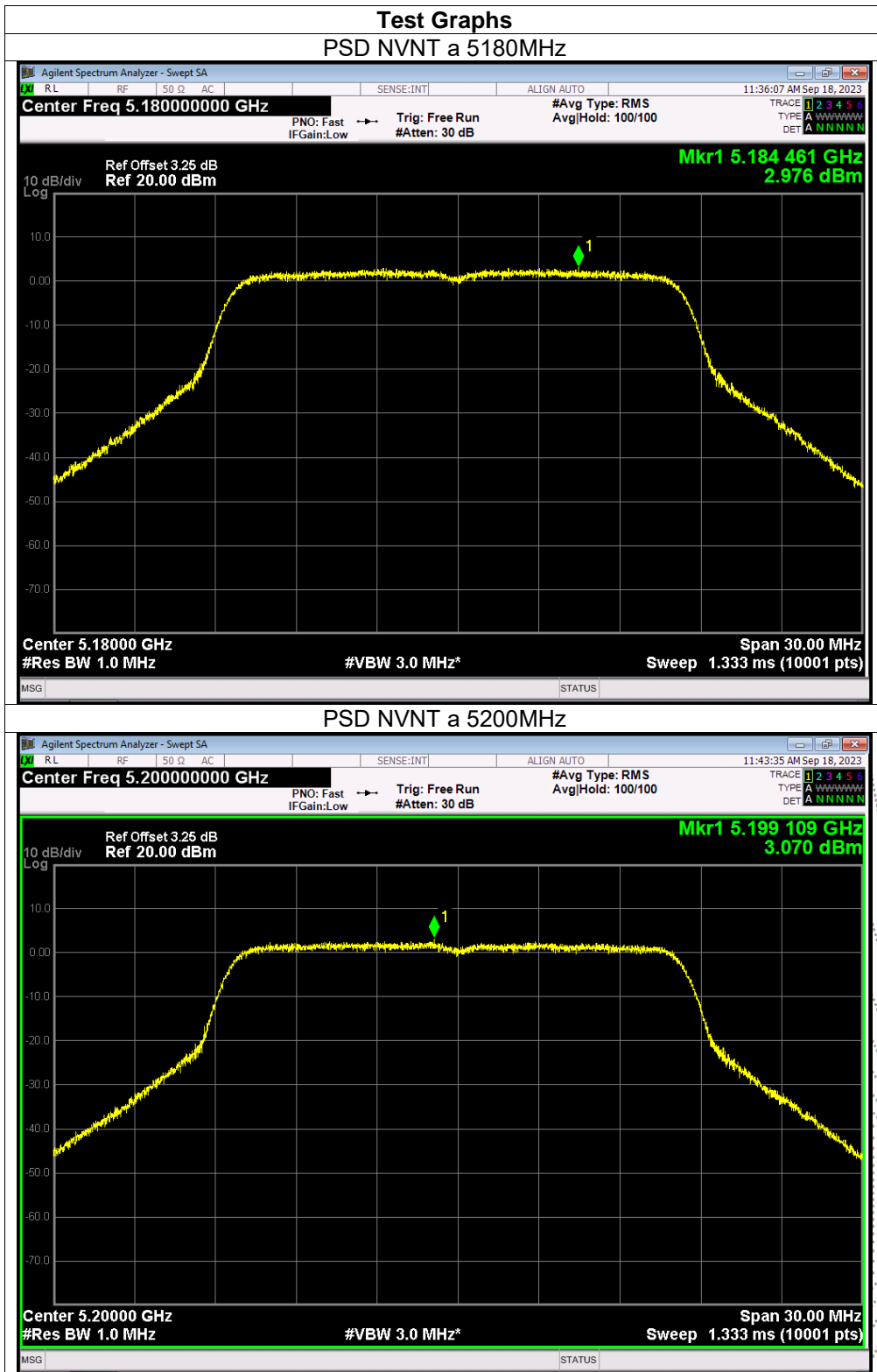


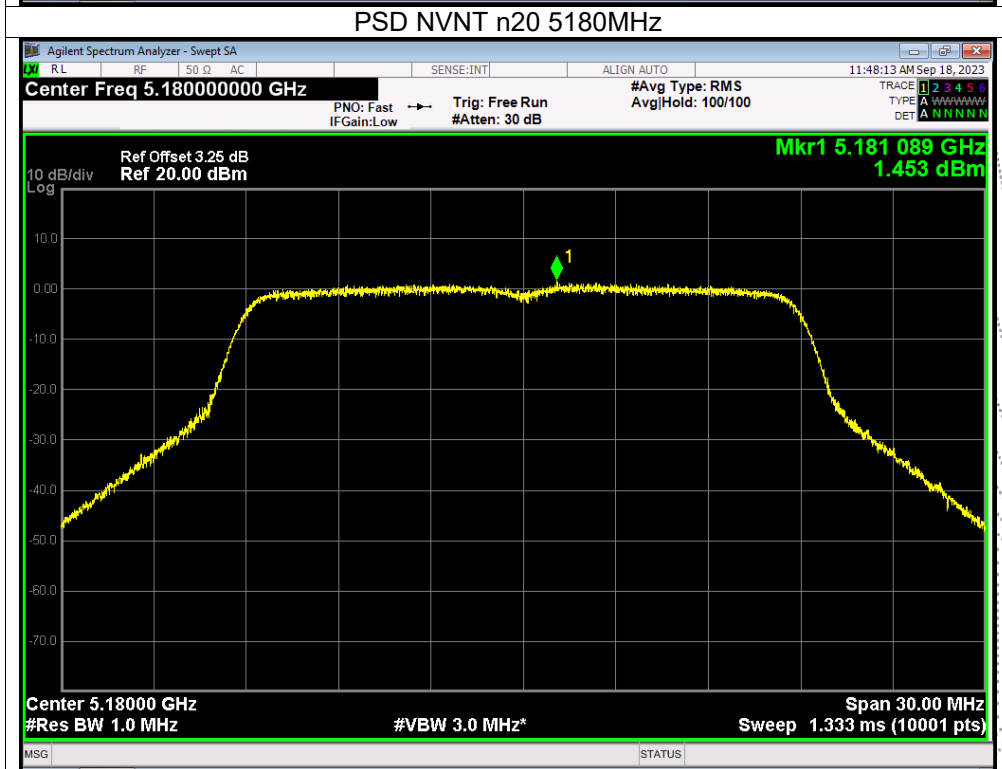
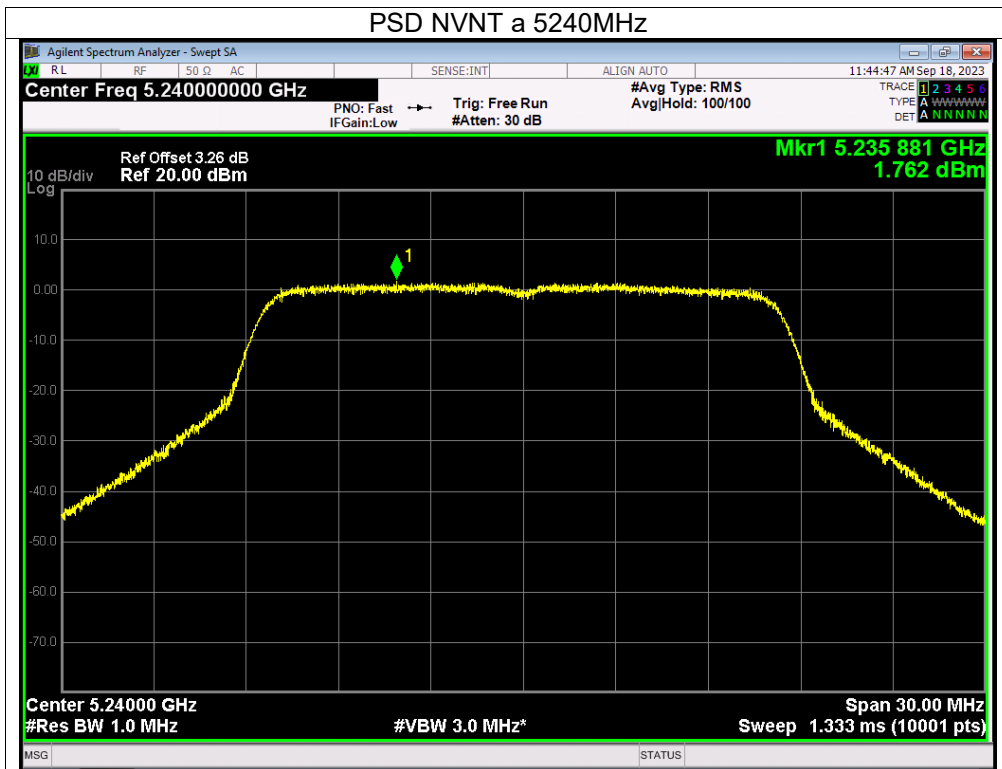
8.5 Test Result

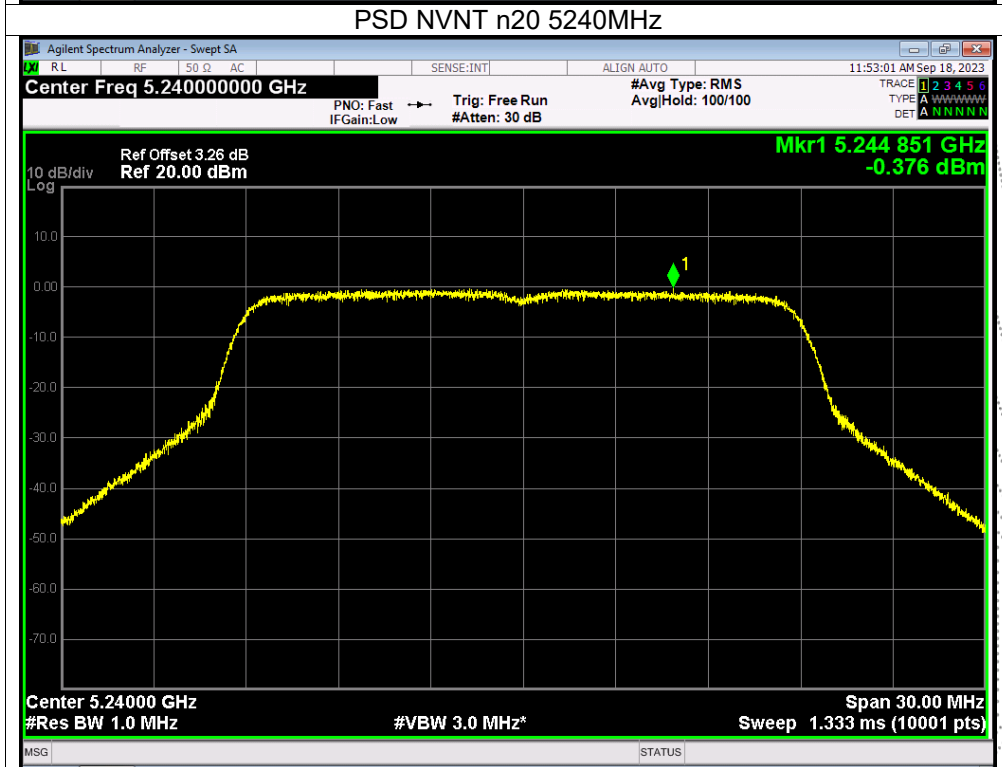
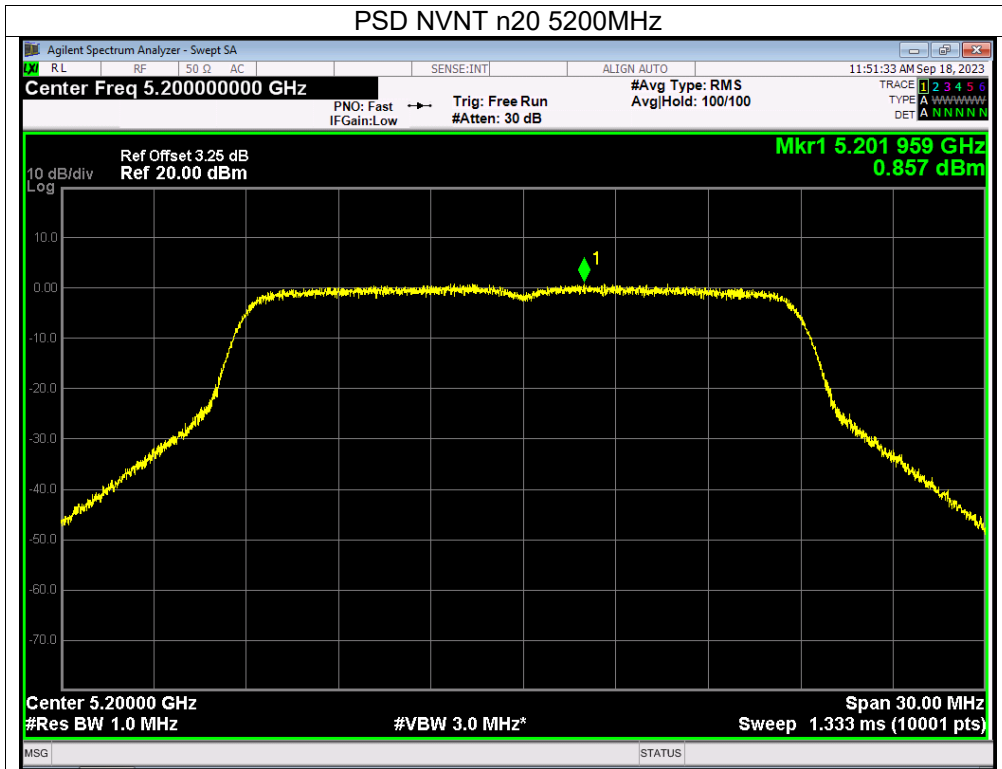
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 12V
Test Mode :	TX Frequency U-NII-1 (5180-5240MHz)		

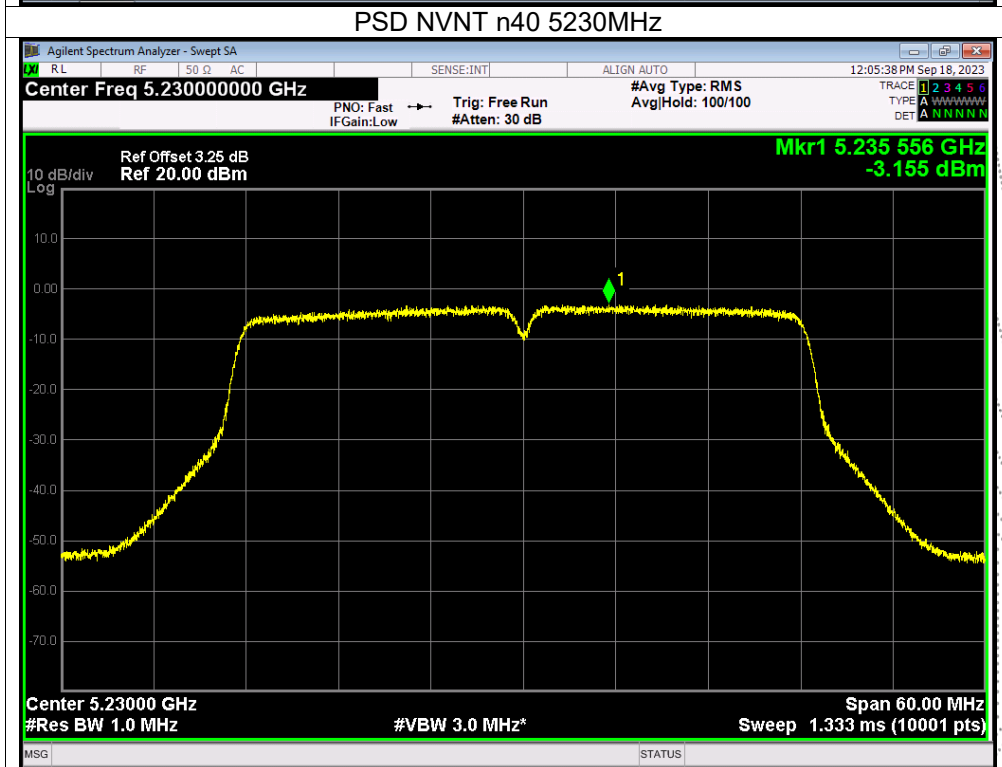
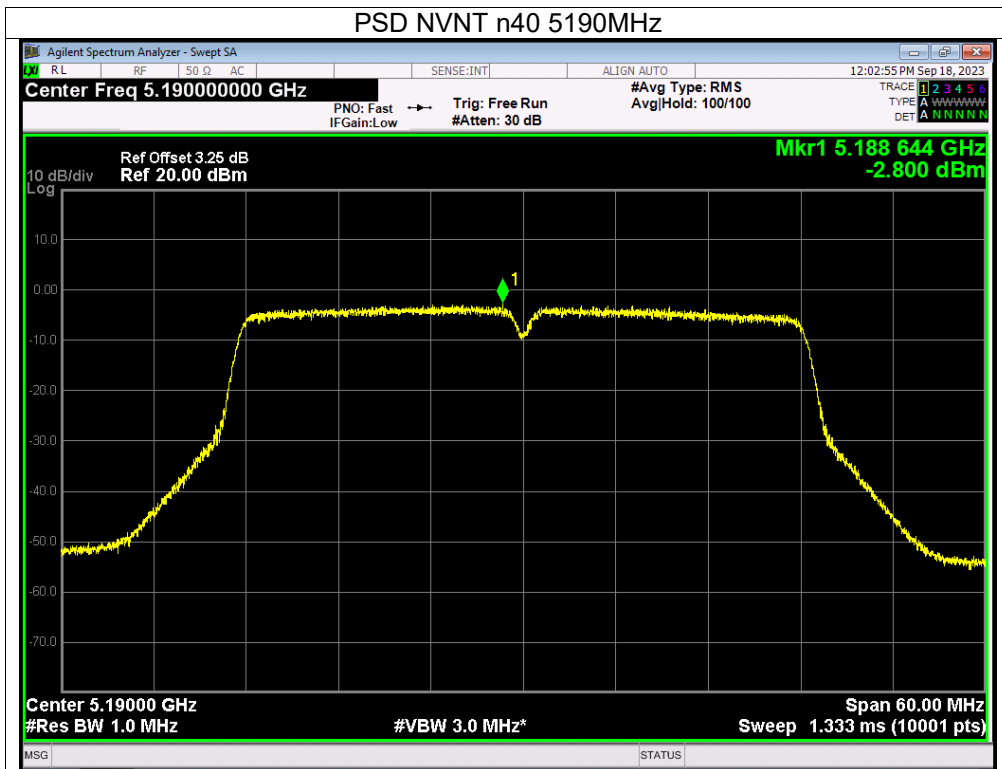
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

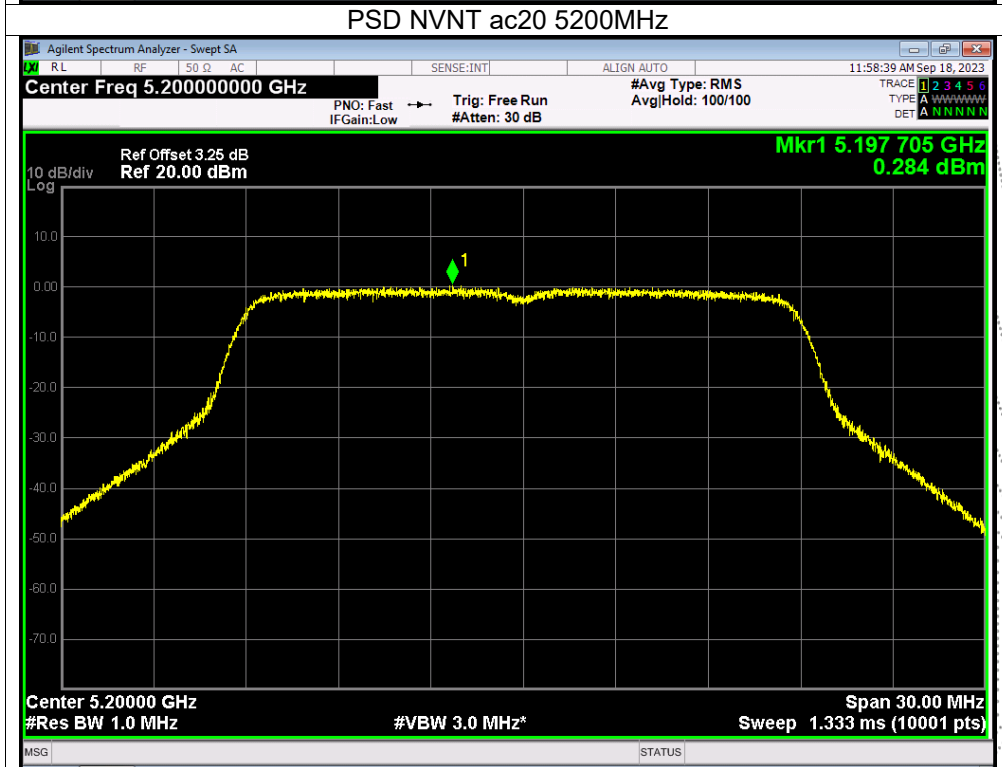
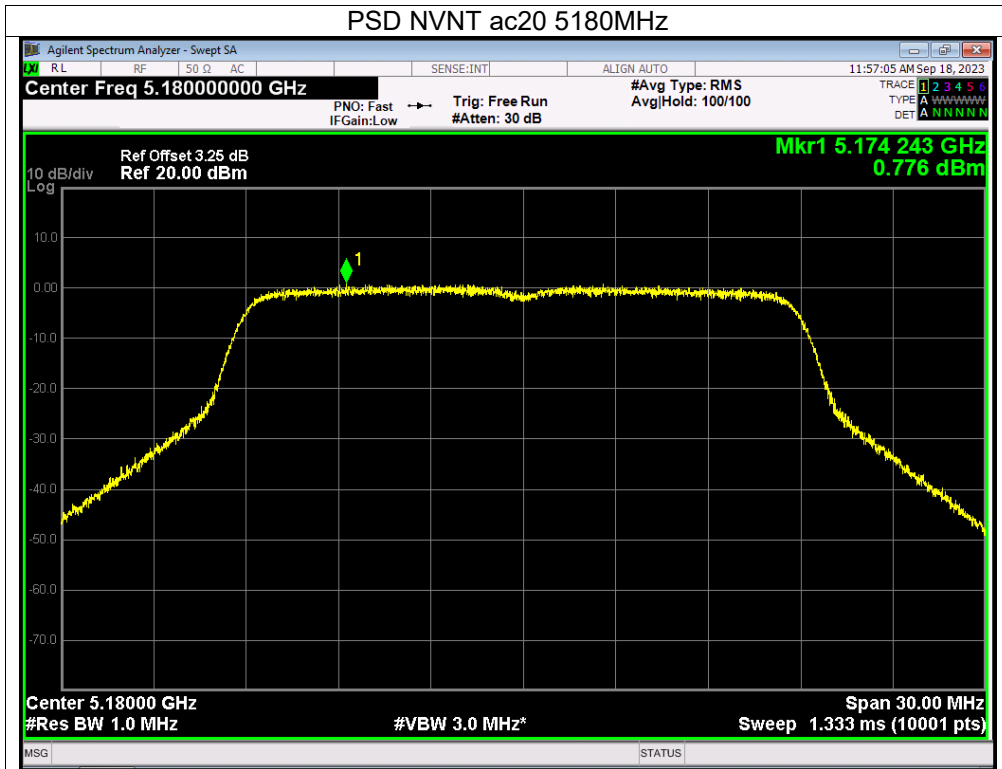
Mode	Frequency	Measured Power Density (dBm/MHz)			Limit (dBm/MHz)	Result
		ANT A	ANT B	Total		
802.11 a	5180 MHz	2.98	2.71	/	11	PASS
	5200 MHz	3.07	2.42	/	11	PASS
	5240 MHz	1.76	1.93	/	11	PASS
802.11 n20	5180 MHz	1.45	1.01	4.25	11	PASS
	5200 MHz	0.86	0.96	3.92	11	PASS
	5240 MHz	-0.38	-0.43	2.61	11	PASS
802.11 n40	5190 MHz	-2.8	-2.22	0.51	11	PASS
	5230 MHz	-3.16	-3.17	-0.15	11	PASS
802.11 ac20	5180 MHz	0.78	0.79	3.80	11	PASS
	5200 MHz	0.28	0.47	3.39	11	PASS
	5240 MHz	-0.28	-0.87	2.45	11	PASS
802.11 ac40	5190 MHz	-3.15	-2.64	0.12	11	PASS
	5230 MHz	-3.4	-4.13	-0.74	11	PASS
802.11 ac80	5210 MHz	-7.61	-7.1	-4.34	11	PASS
802.11 ax20	5180 MHz	1.08	0.79	3.95	11	PASS
	5200 MHz	0.86	0.38	3.64	11	PASS
	5240 MHz	0.65	-0.42	3.16	11	PASS
802.11 ax40	5190 MHz	-2.37	-2.74	0.46	11	PASS
	5230 MHz	-3.88	-4.1	-0.98	11	PASS
802.11 ax80	5210 MHz	-8.13	-7.04	-4.54	11	PASS

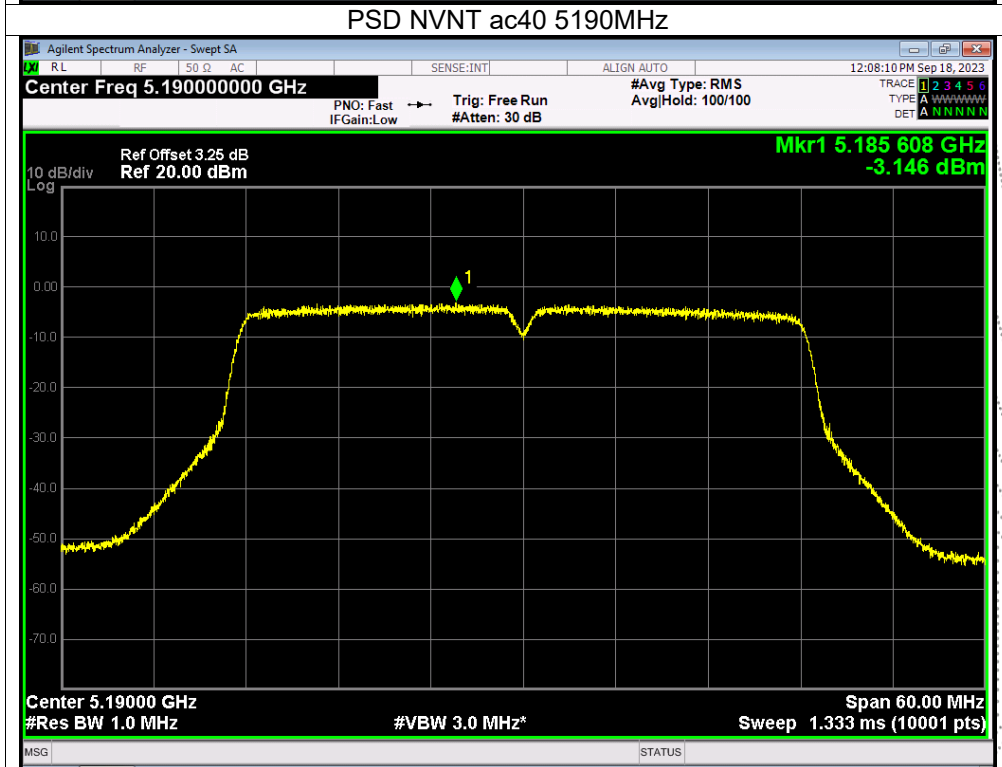
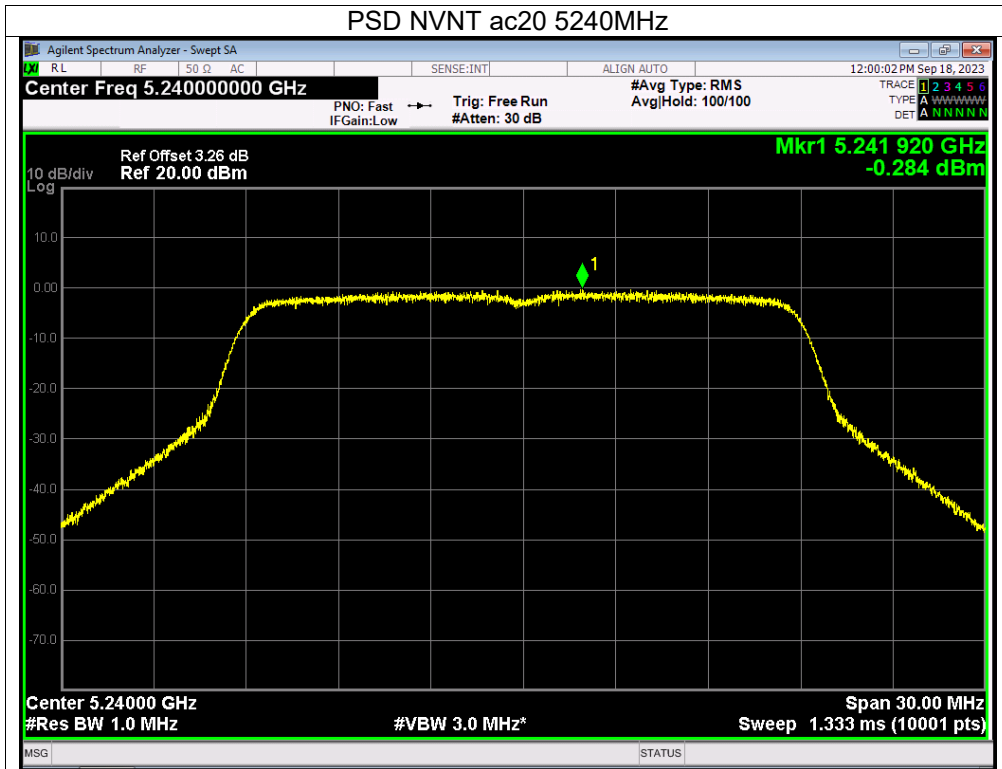


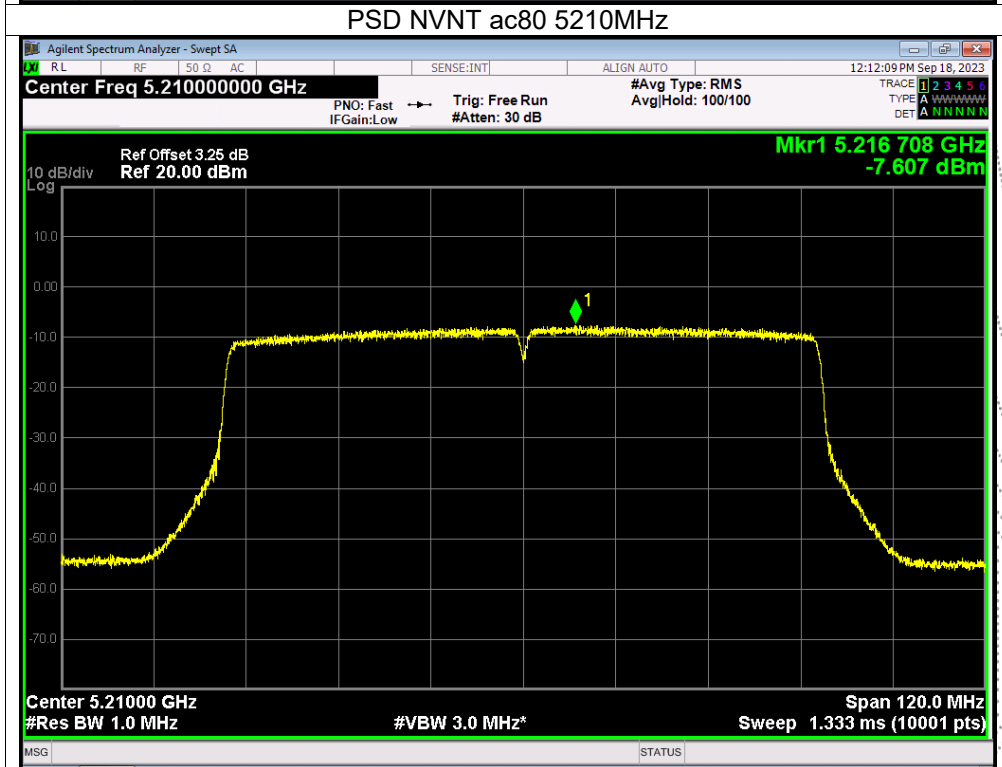
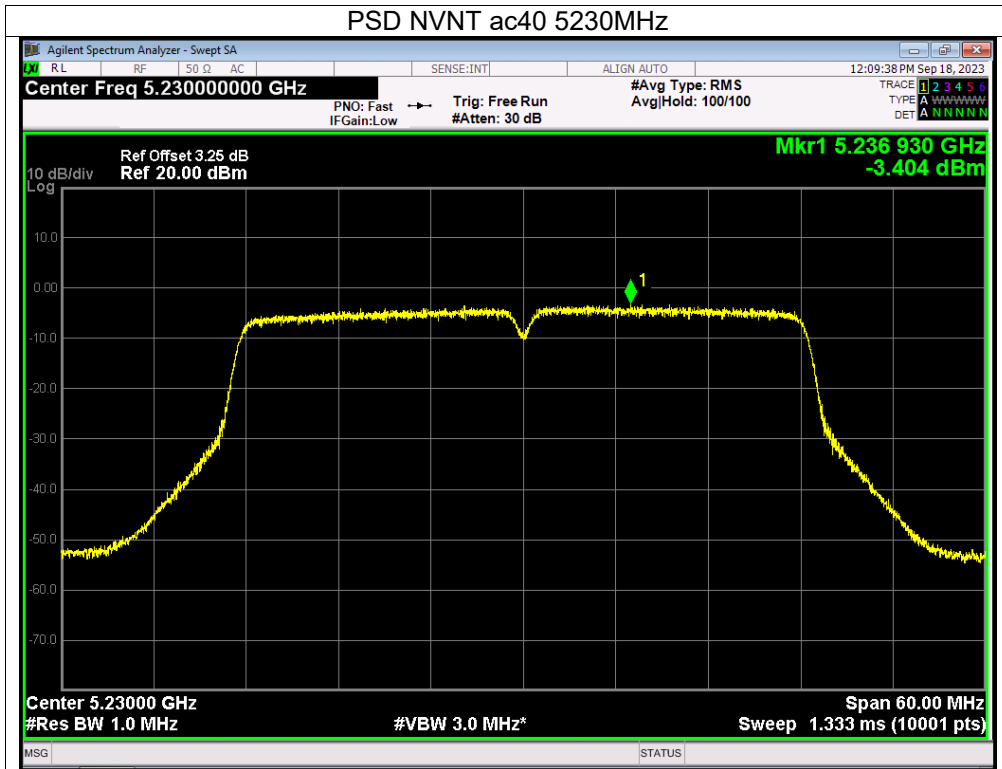


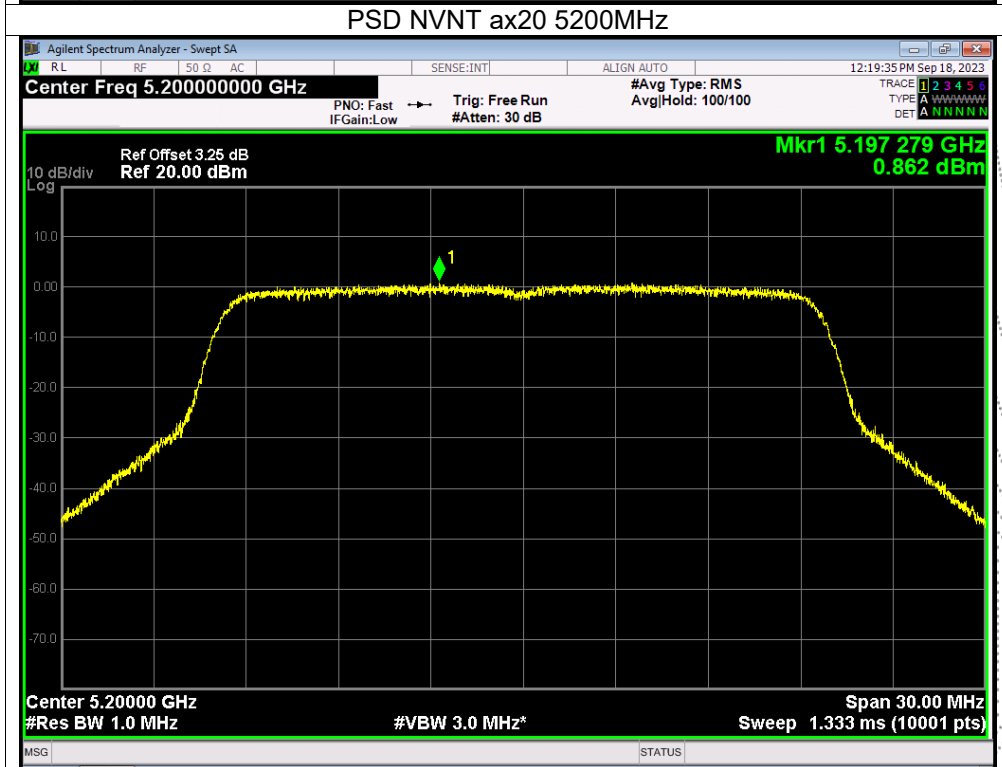
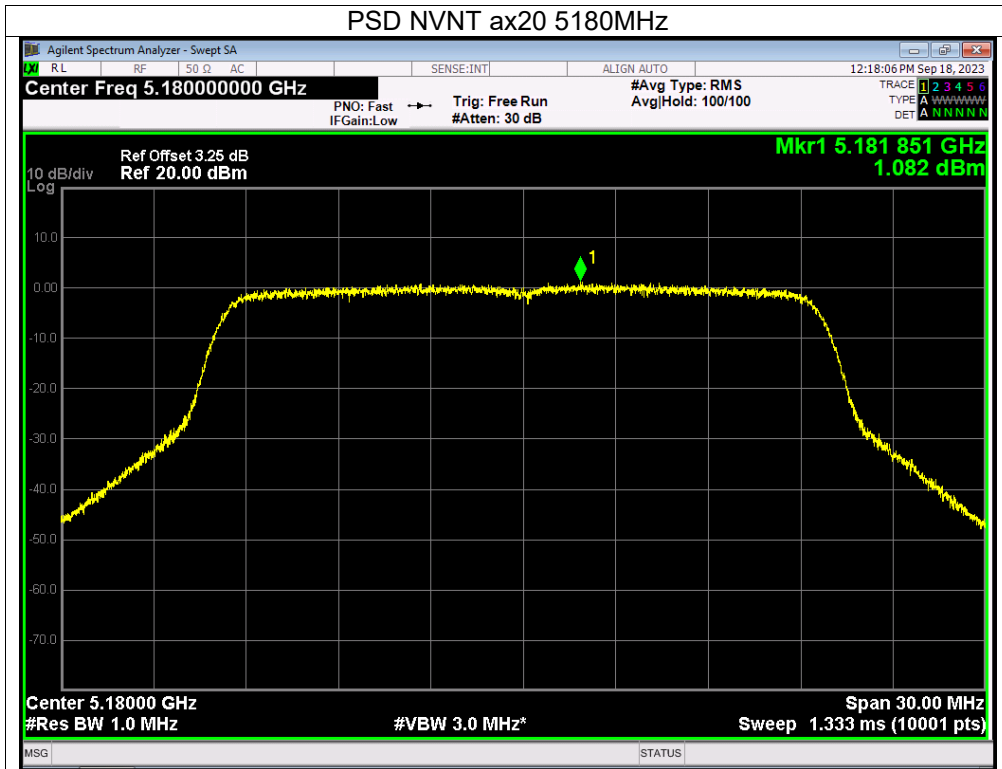


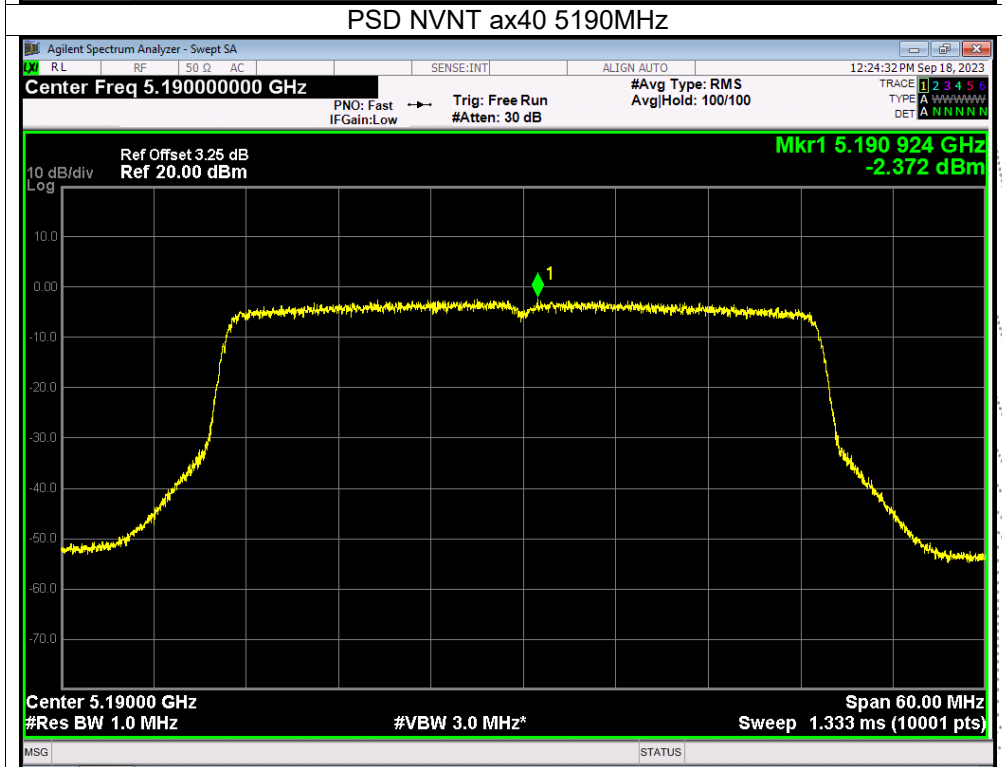
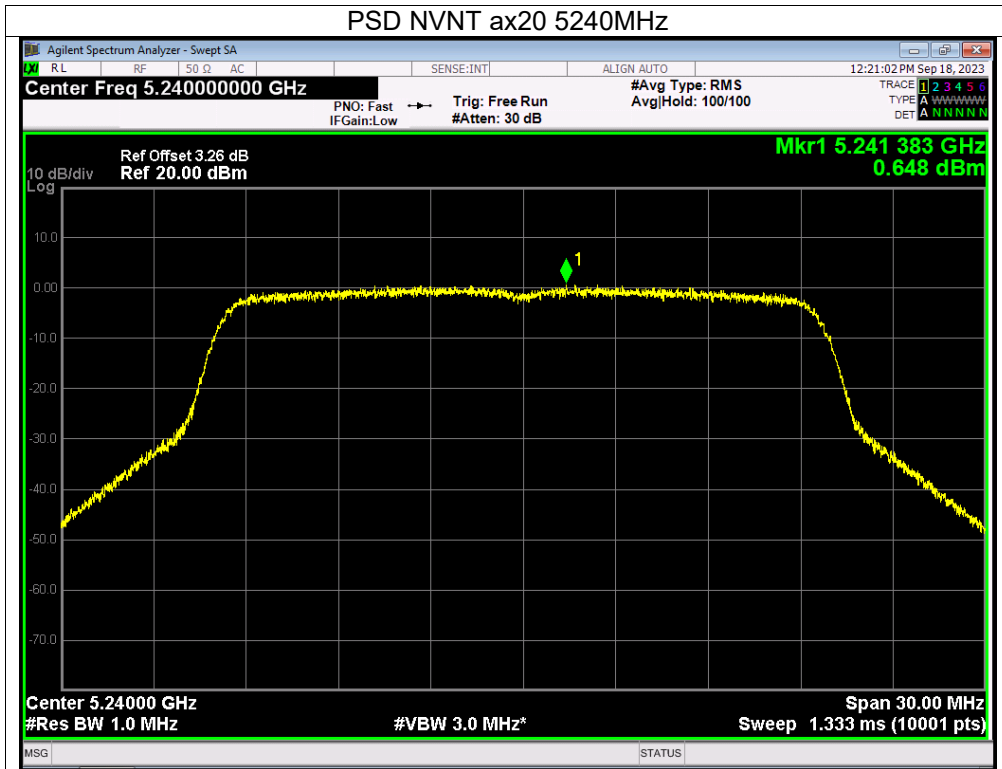


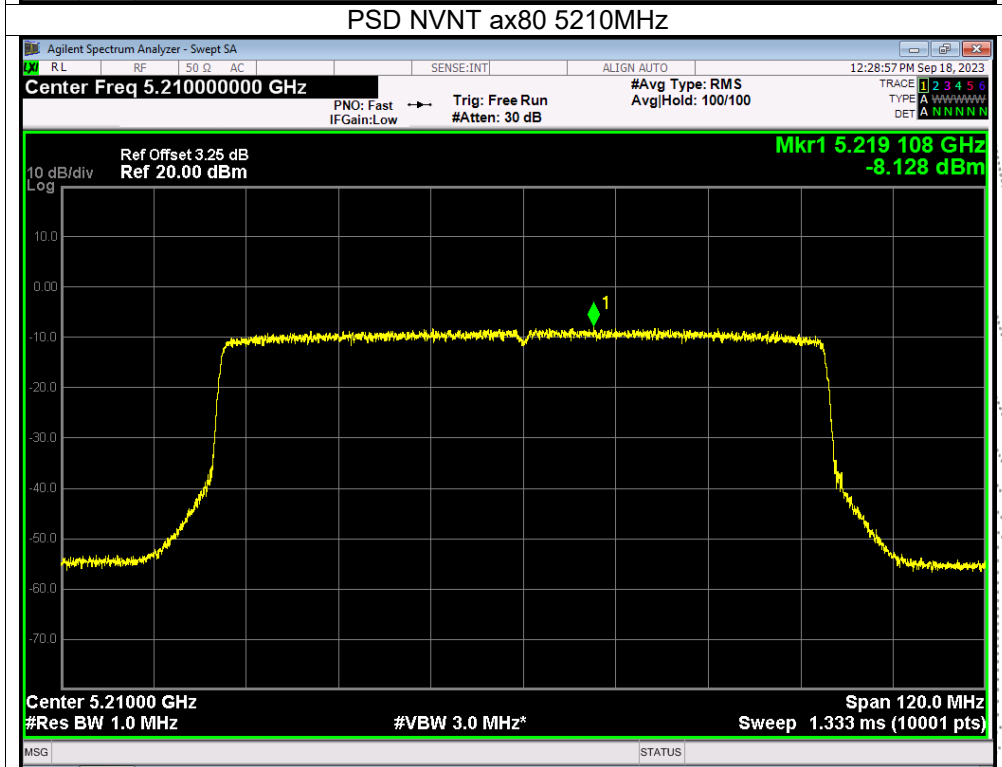
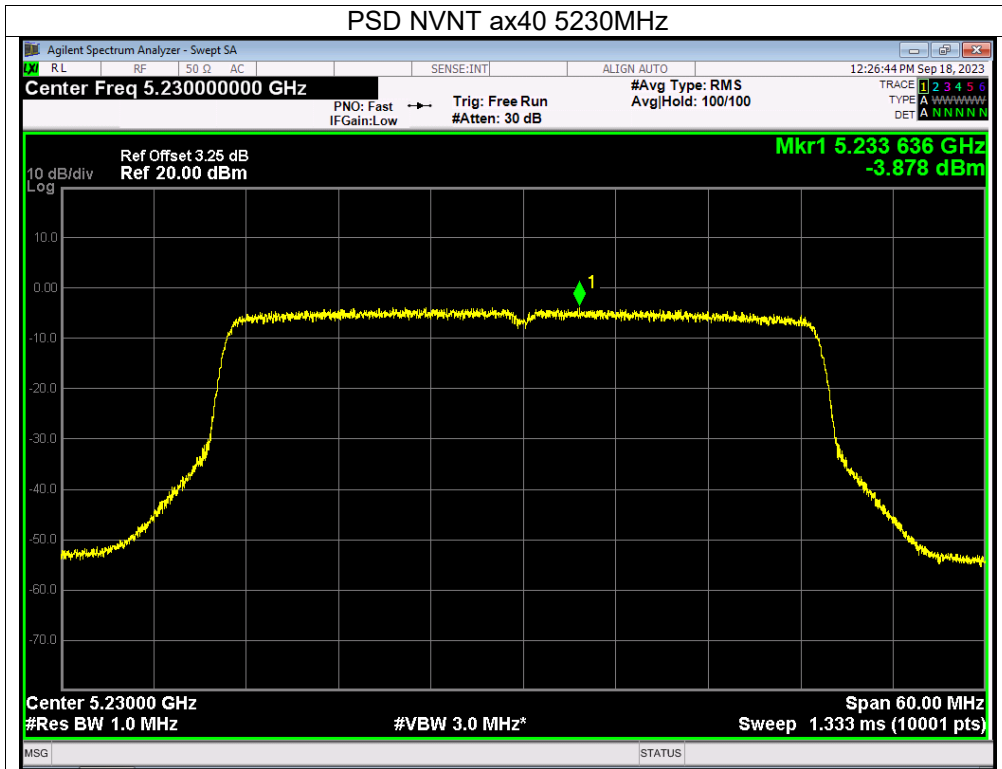








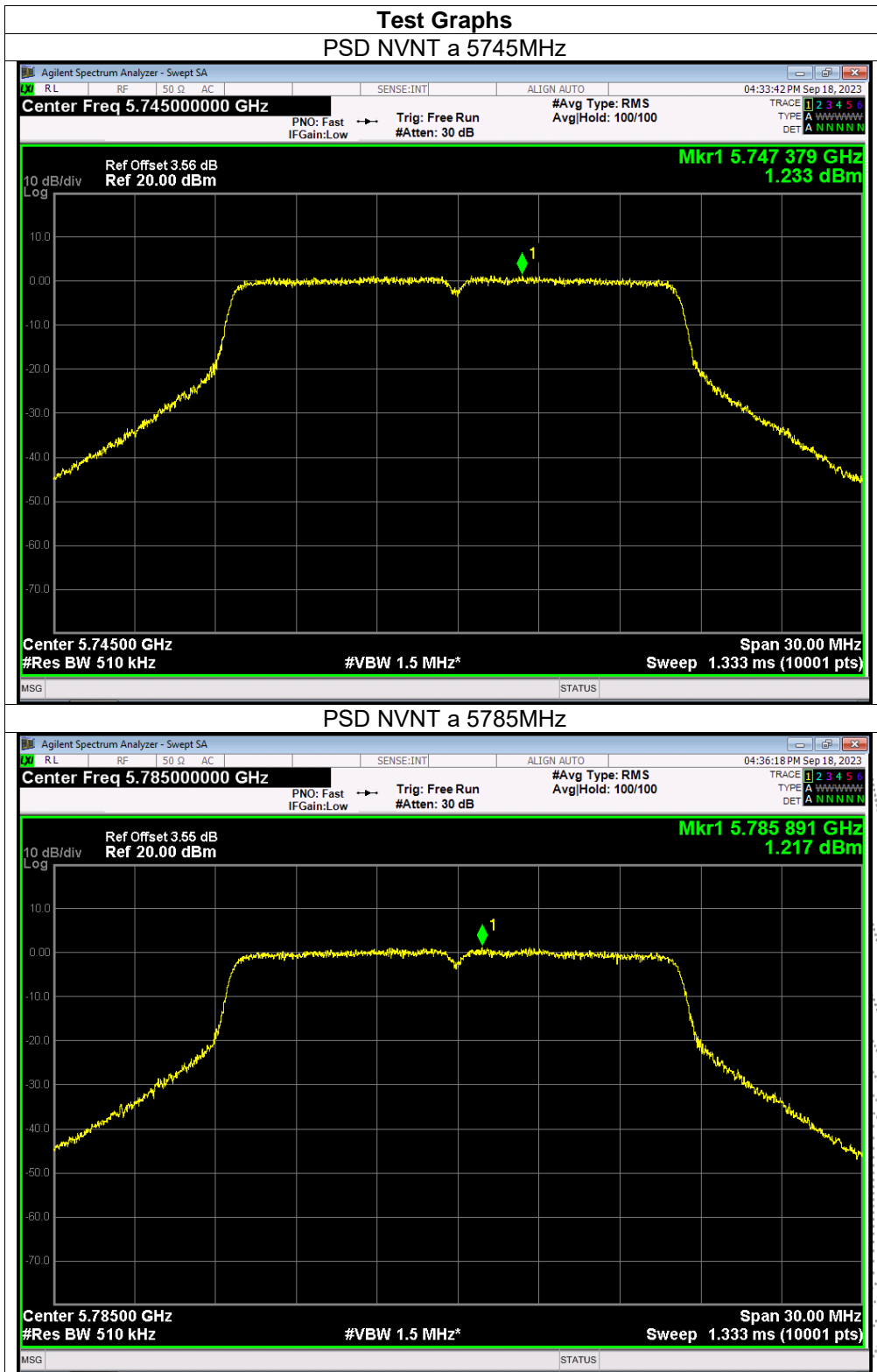


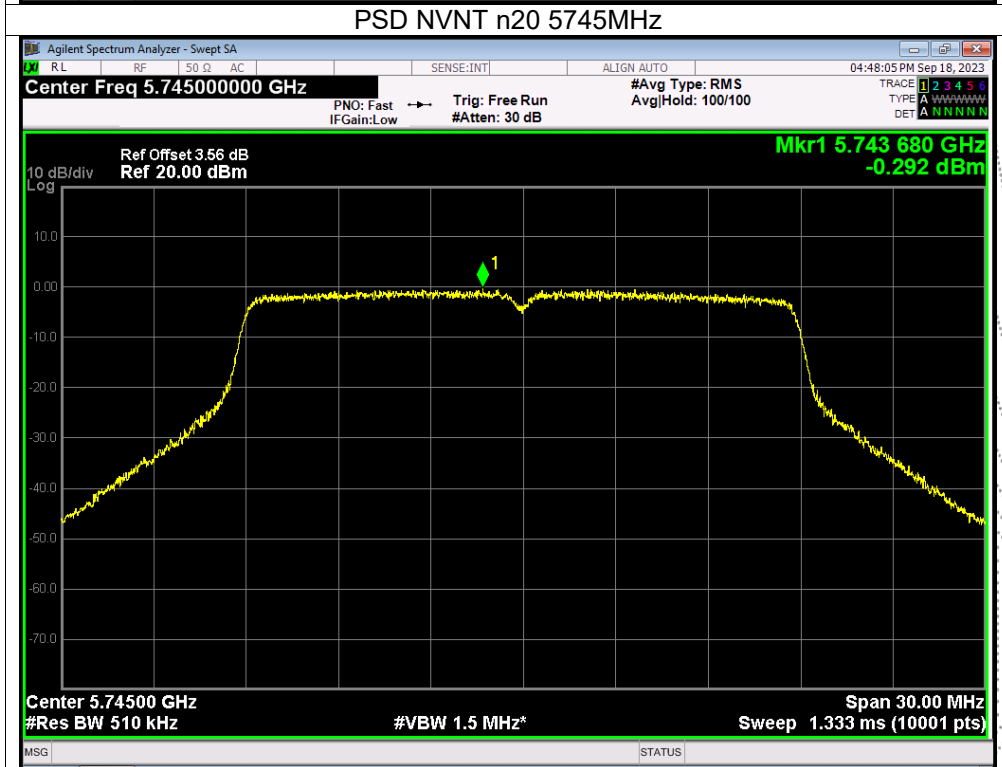
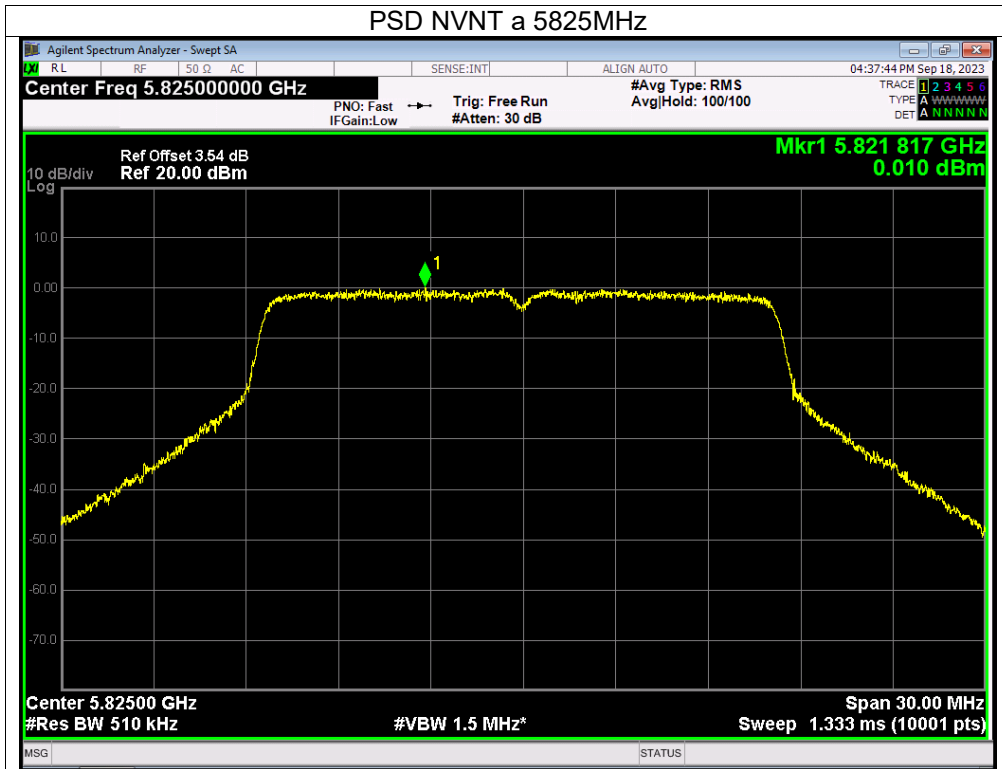


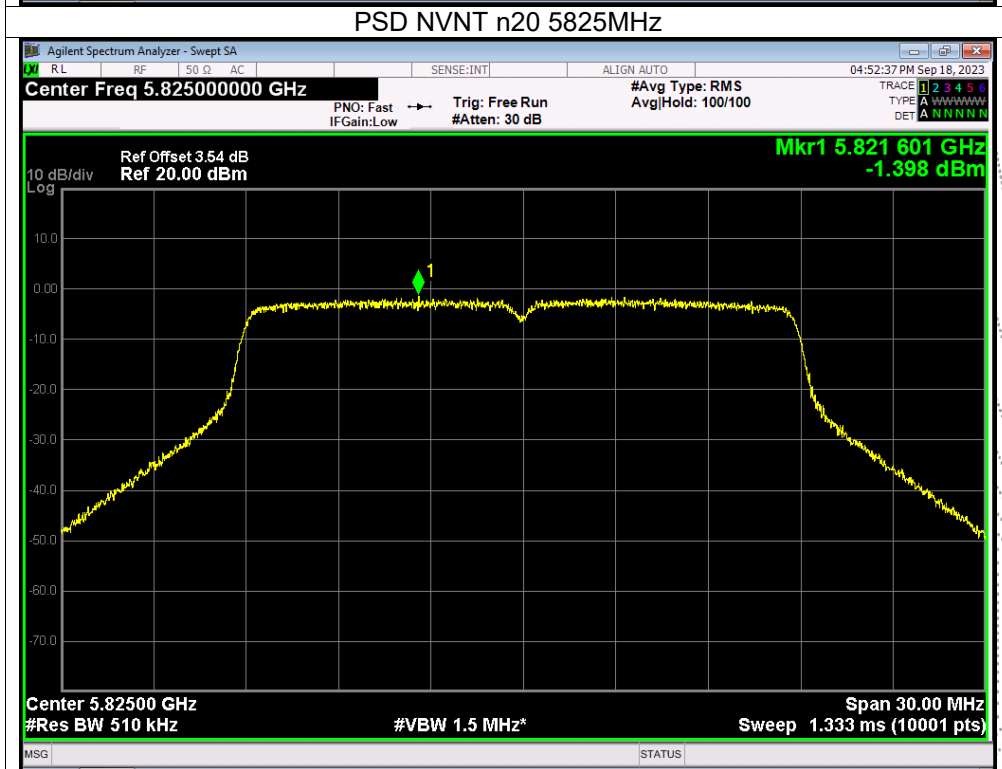
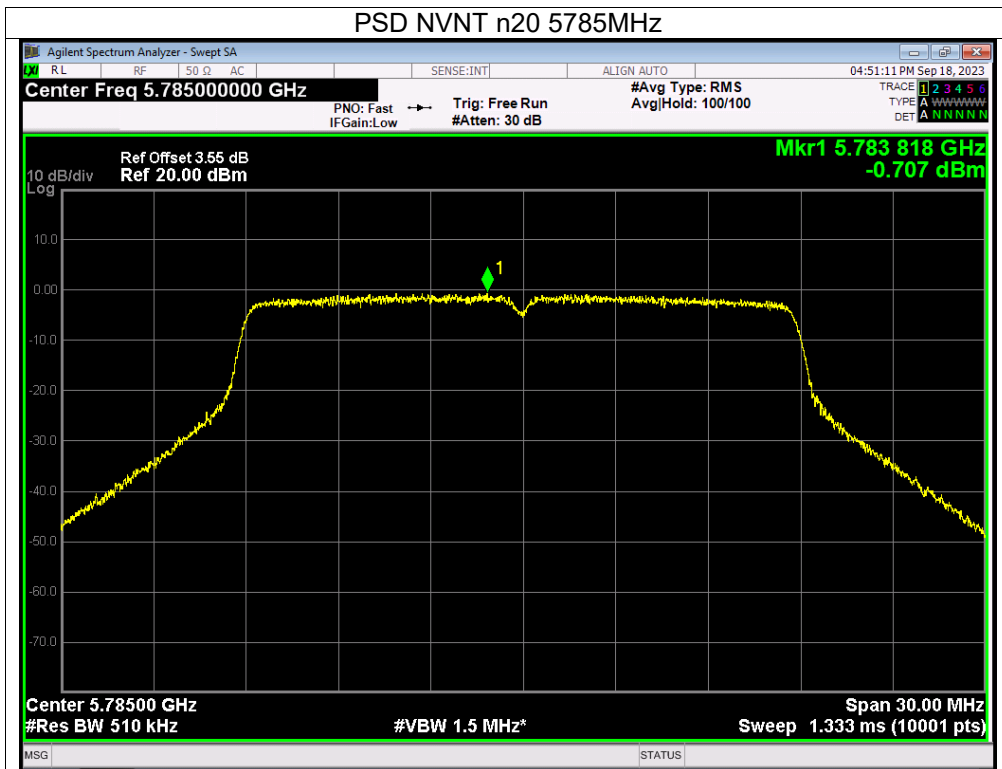
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 12V
Test Mode :	TX Frequency U-NII-3 (5745-5825MHz)		

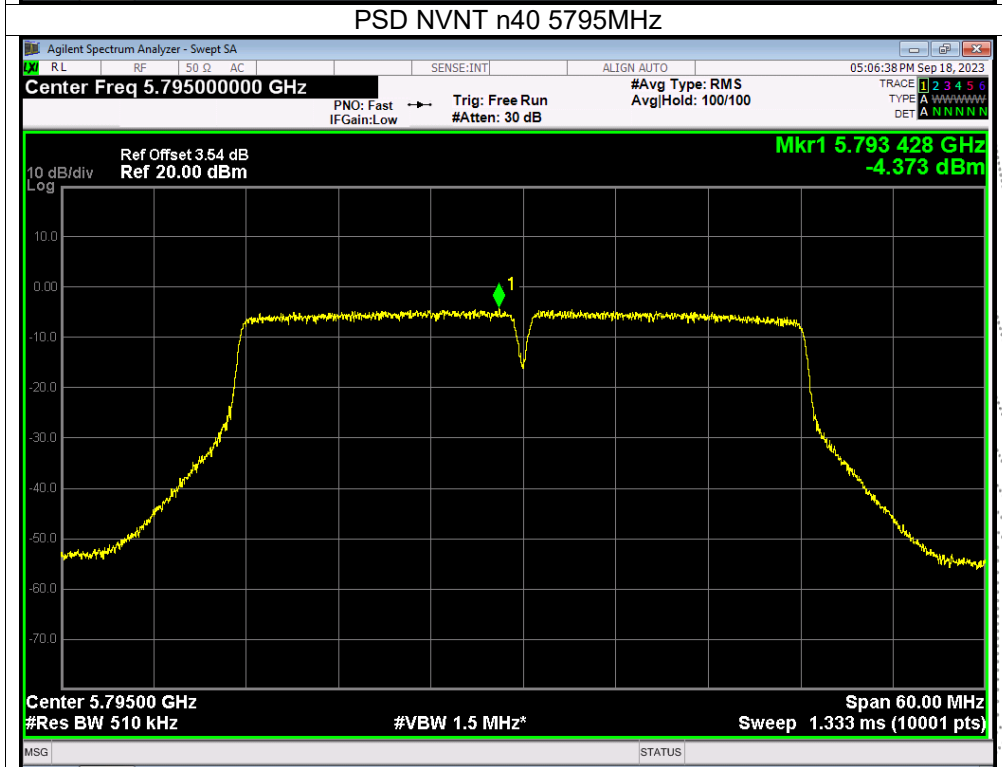
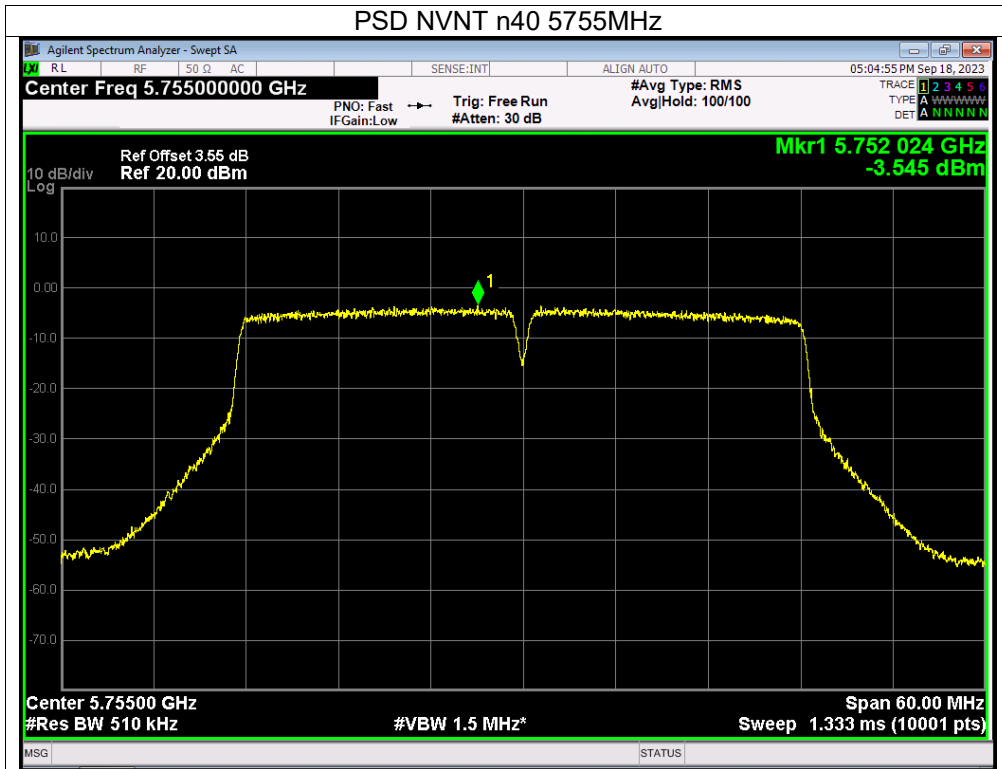
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

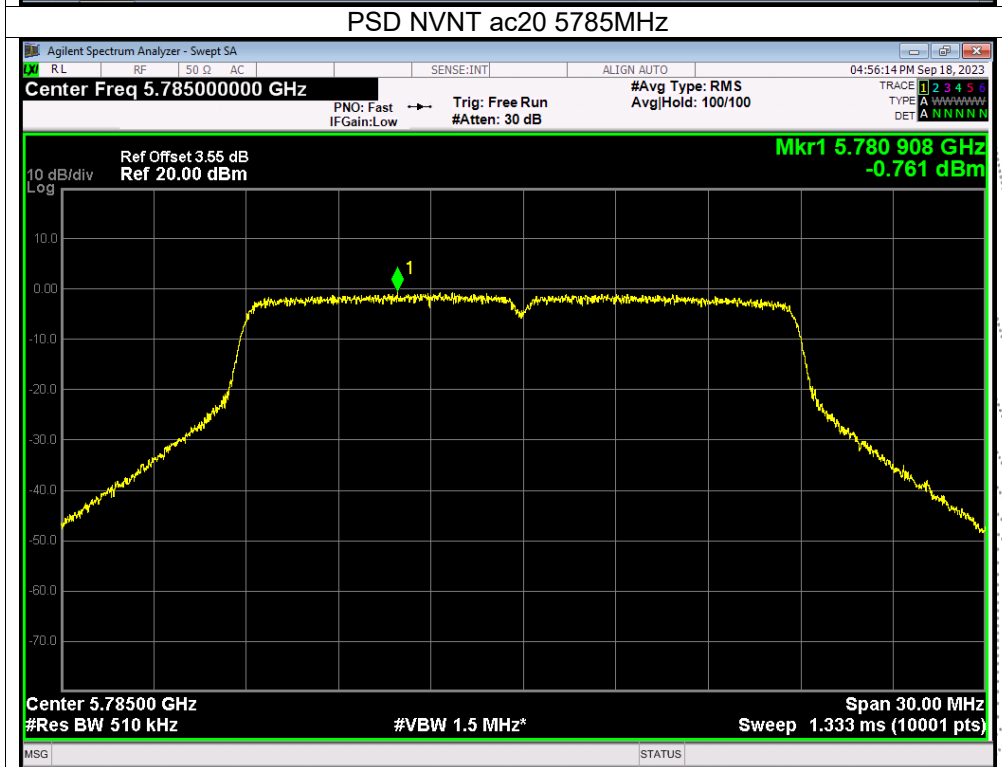
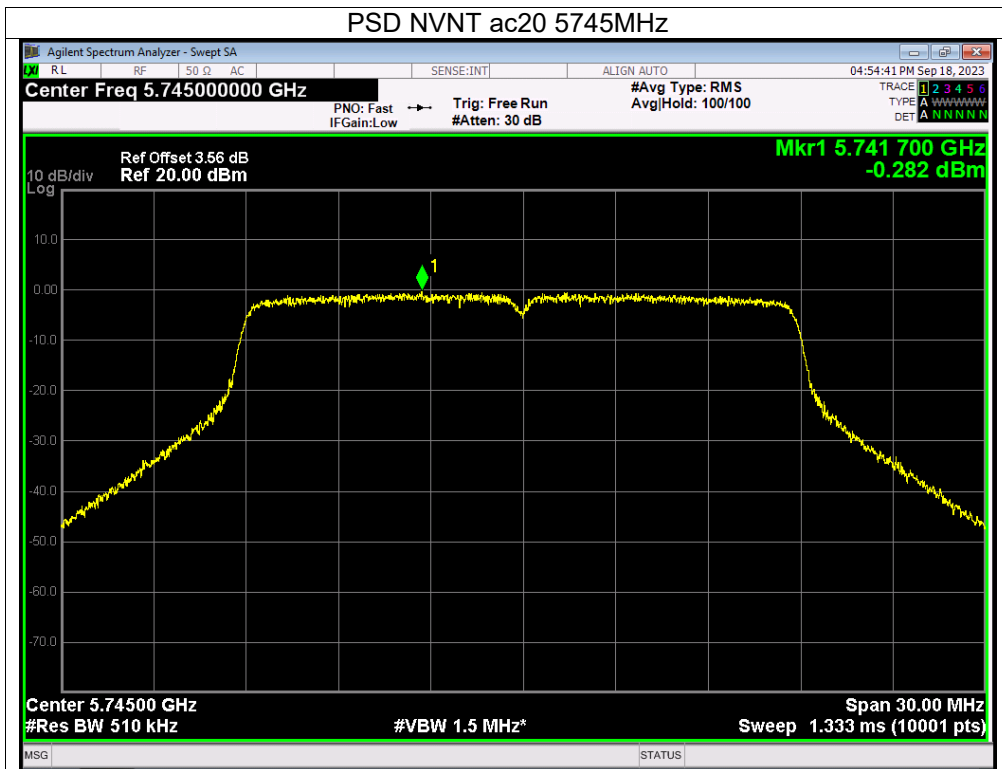
Mode	Frequency	Measured Power Density (dBm/500KHz)			Limit (dBm/500kHz)	Result
		ANT A	ANT B	Total		
802.11 a	5745 MHz	-0.01	1.23	/	30	PASS
	5785 MHz	-0.26	1.22	/	30	PASS
	5825 MHz	-1.39	0.01	/	30	PASS
802.11 n20	5745 MHz	-1.57	-0.29	2.13	30	PASS
	5785 MHz	-1.81	-0.71	1.79	30	PASS
	5825 MHz	-2.73	-1.4	1.00	30	PASS
802.11 n40	5755 MHz	-4.68	-3.55	-1.07	30	PASS
	5795 MHz	-5.38	-4.37	-1.84	30	PASS
802.11 ac20	5745 MHz	-1.7	-0.28	2.08	30	PASS
	5785 MHz	-1.81	-0.76	1.76	30	PASS
	5825 MHz	-2.91	-1.86	0.66	30	PASS
802.11 ac40	5755 MHz	-4.95	-3.66	-1.25	30	PASS
	5795 MHz	-5.42	-4.66	-2.01	30	PASS
802.11 ac80	5775 MHz	-9.15	-8.02	-5.54	30	PASS
802.11 ax20	5745 MHz	-1.83	-0.48	1.91	30	PASS
	5785 MHz	-2.28	-0.82	1.52	30	PASS
	5825 MHz	-3.31	-1.87	0.48	30	PASS
802.11 ax40	5755 MHz	-5.15	-3.82	-1.42	30	PASS
	5795 MHz	-5.53	-4.72	-2.10	30	PASS
802.11 ax80	5775 MHz	-9.15	-8.46	-5.78	30	PASS

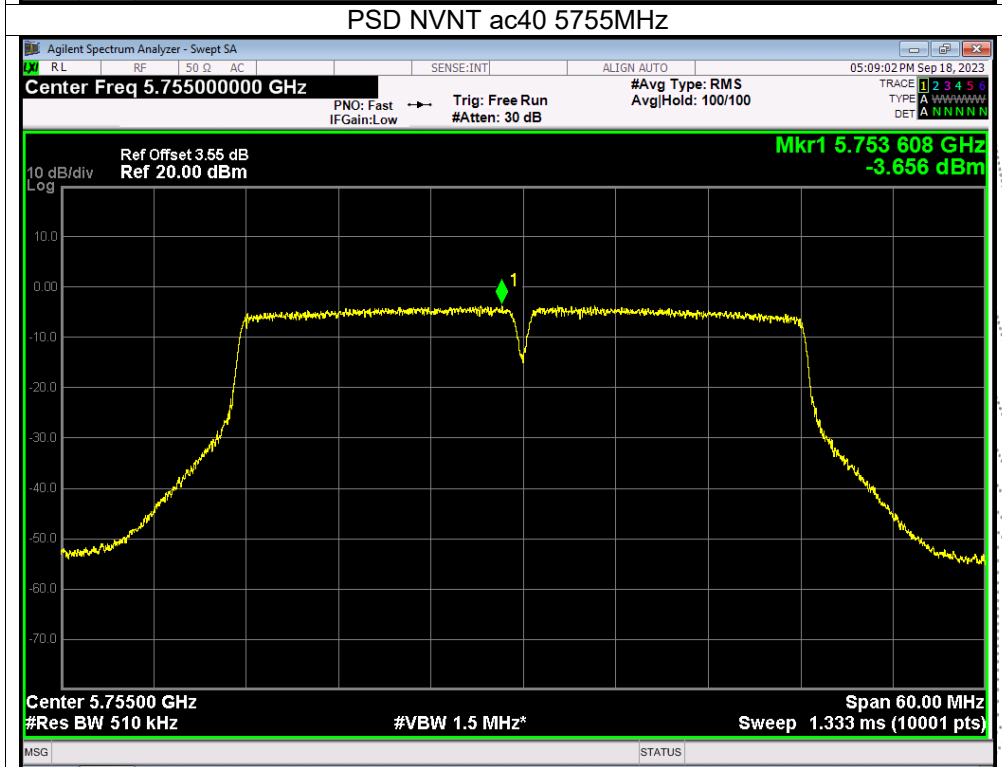
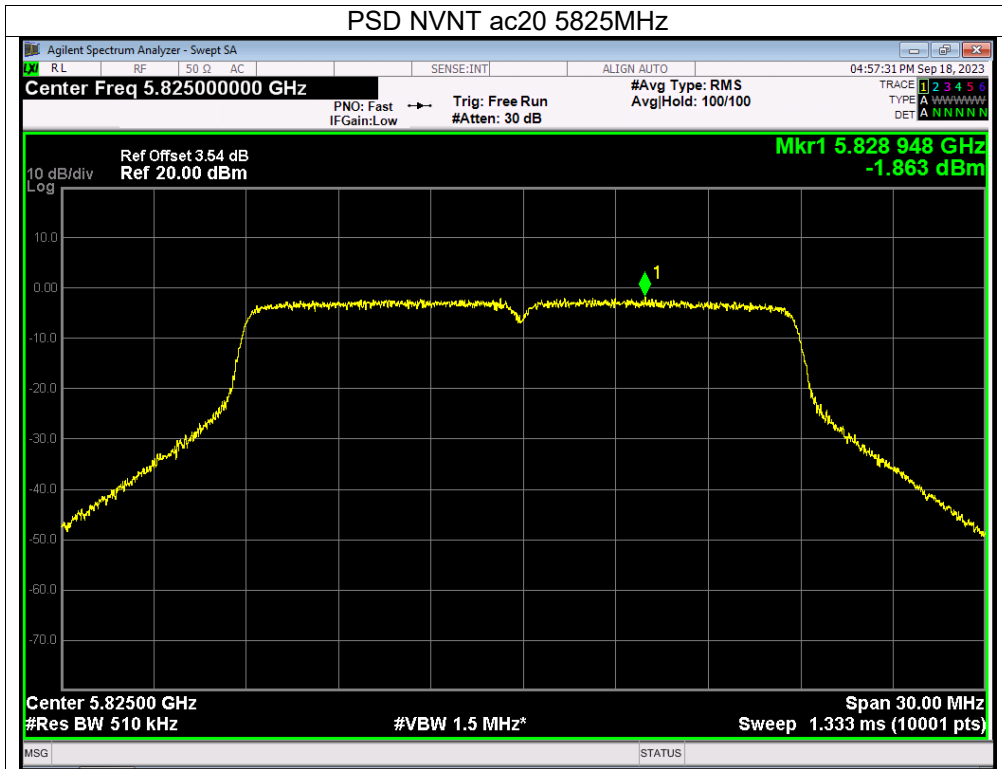


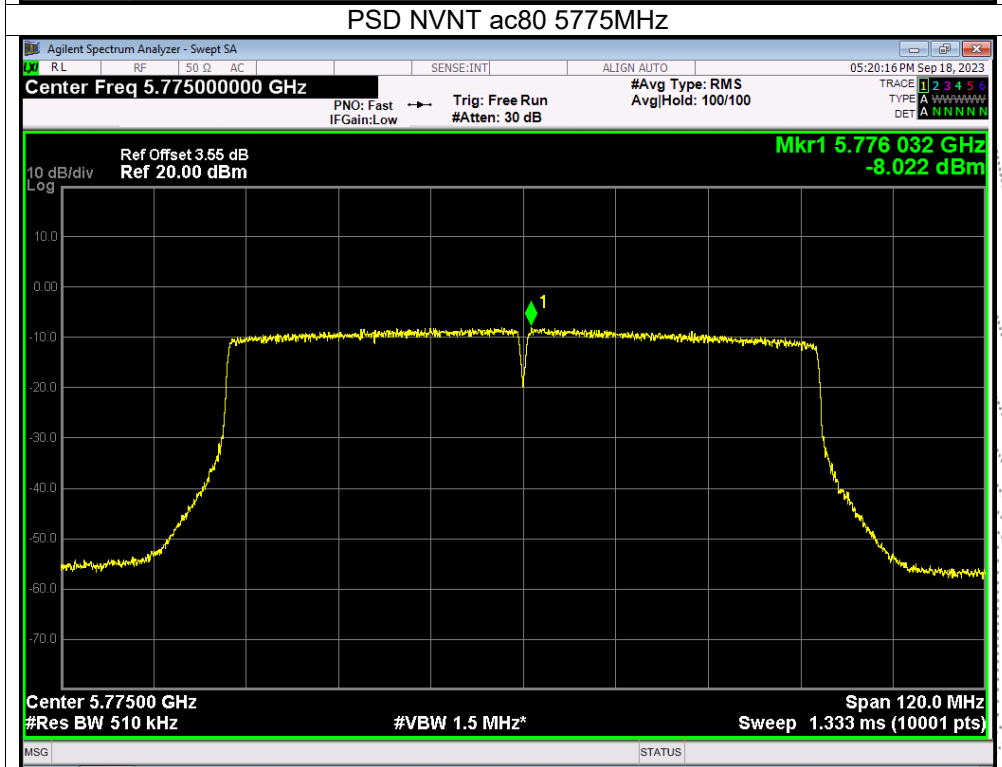
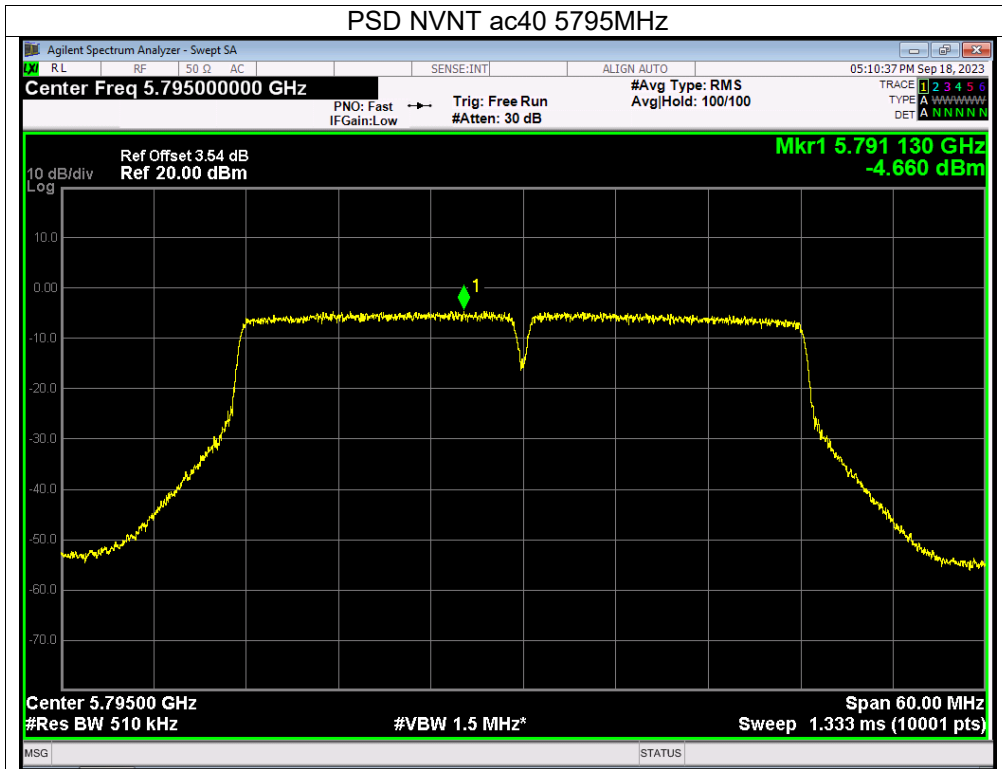


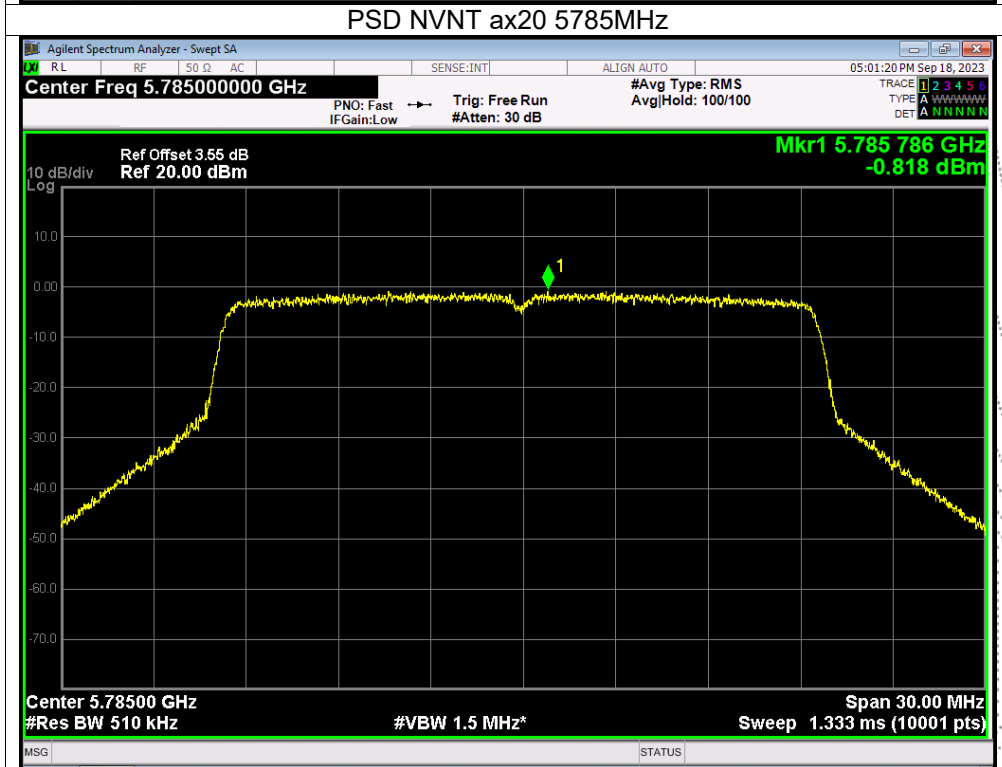
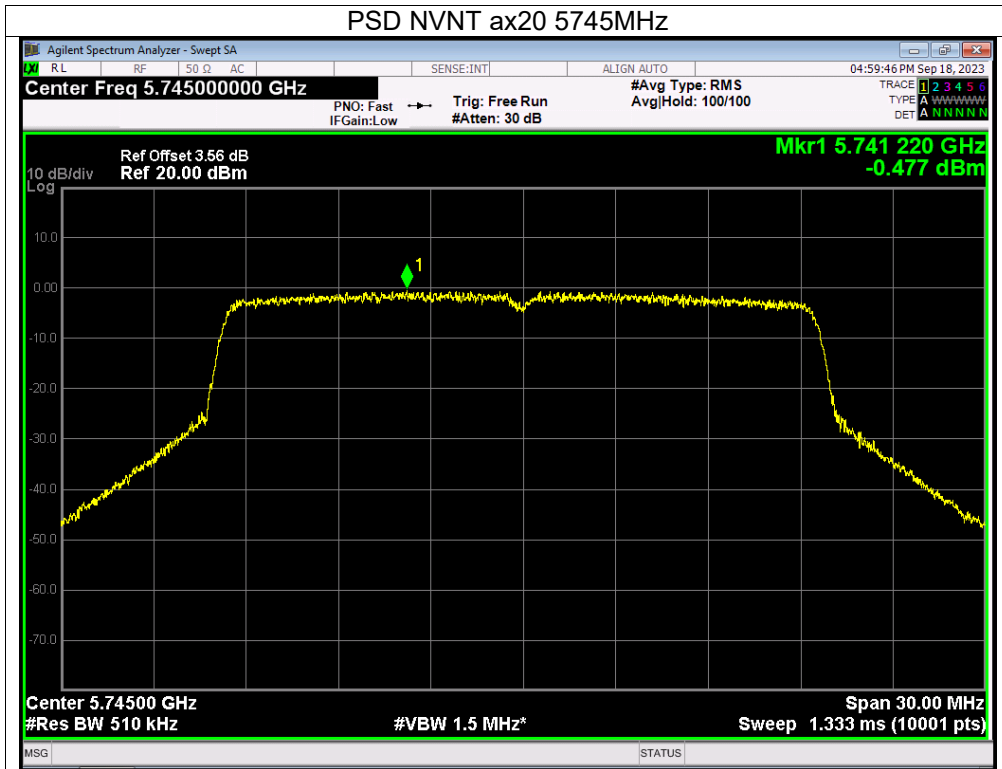


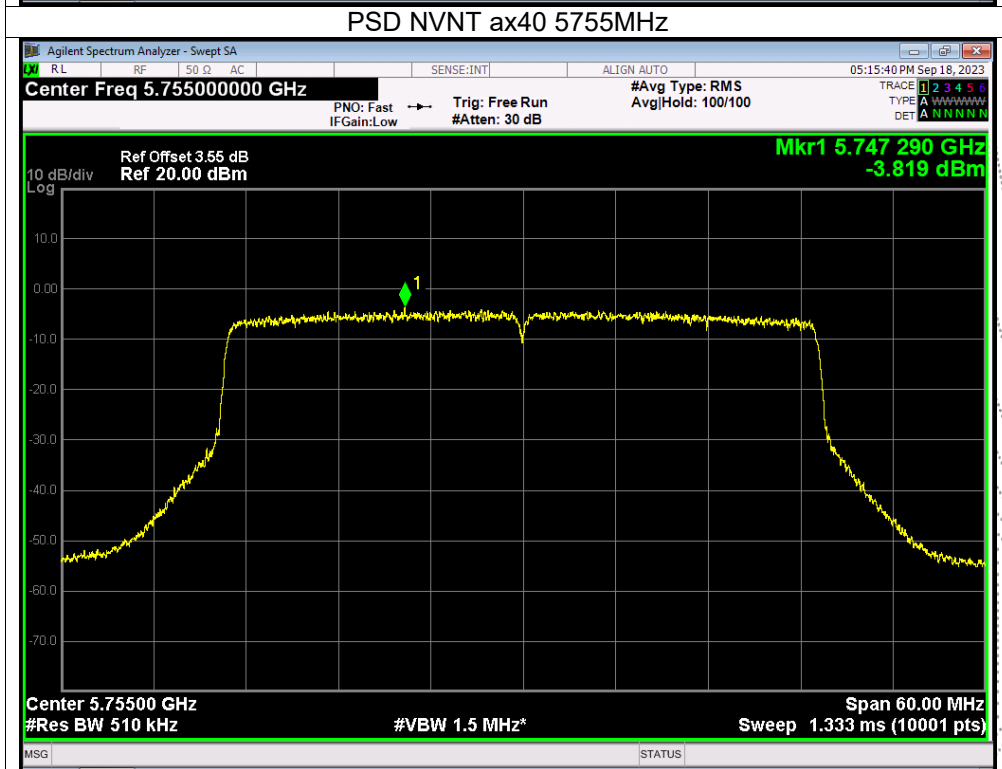
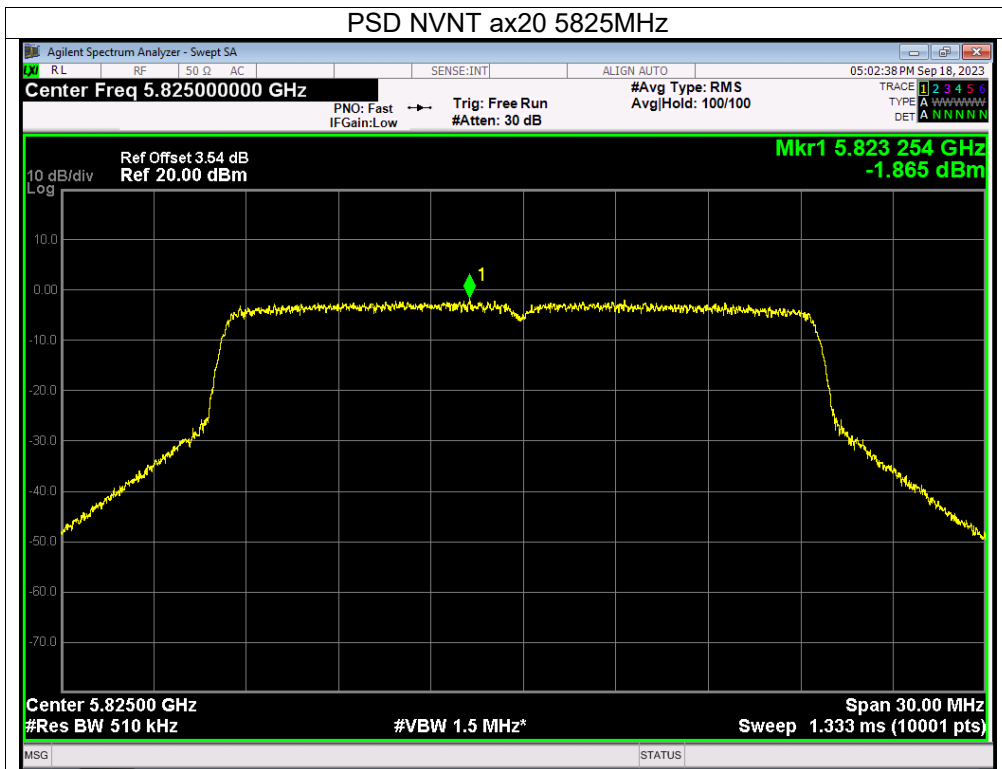


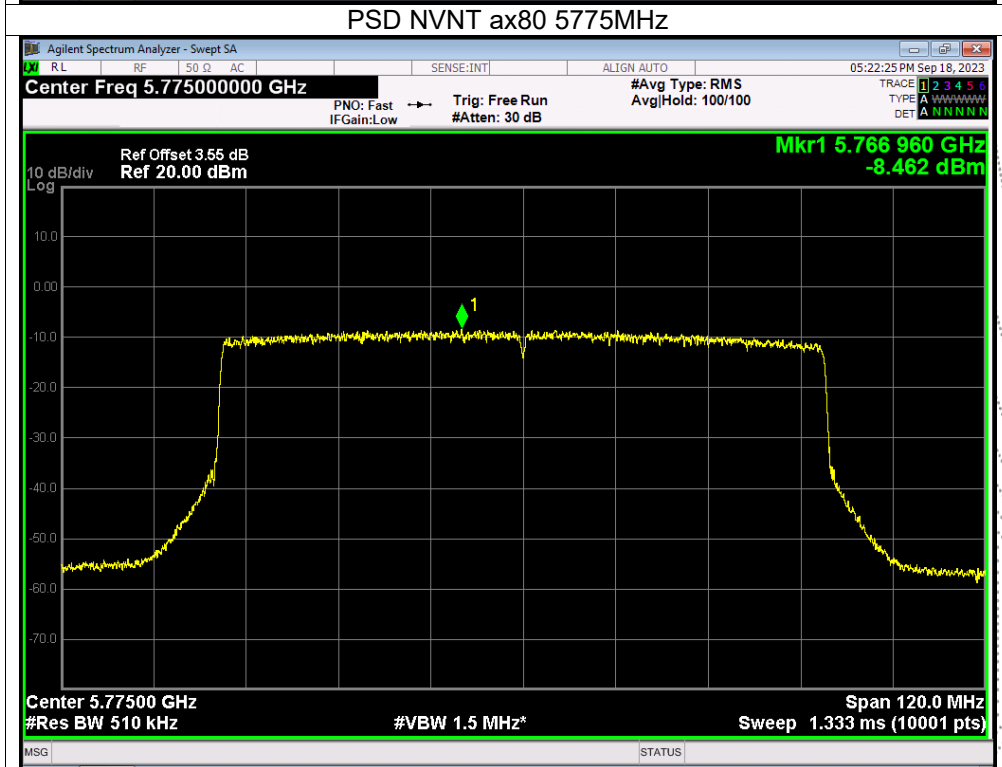
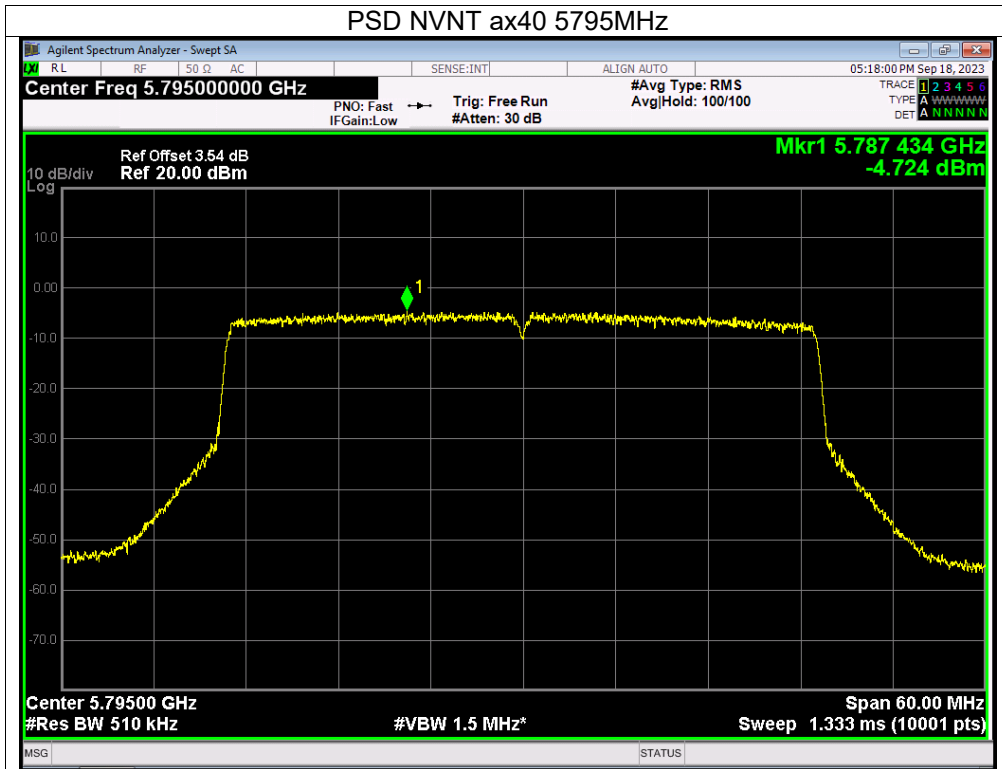






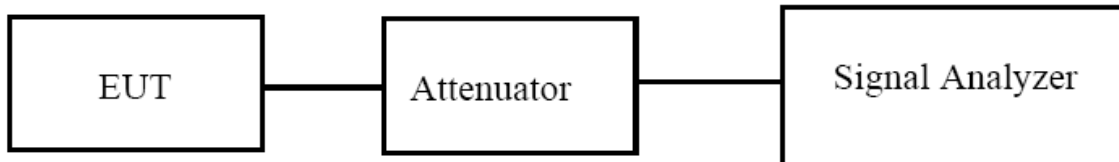






9. 26dB & 6dB & 99% Emission Bandwidth

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

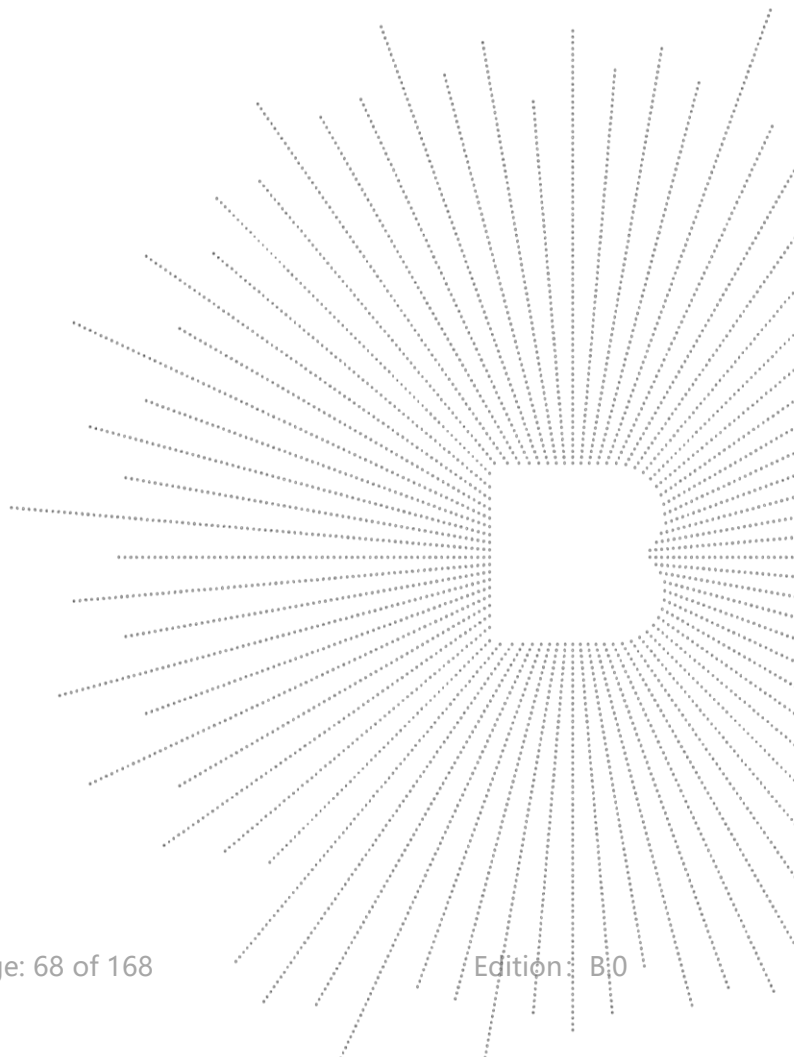
- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.

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

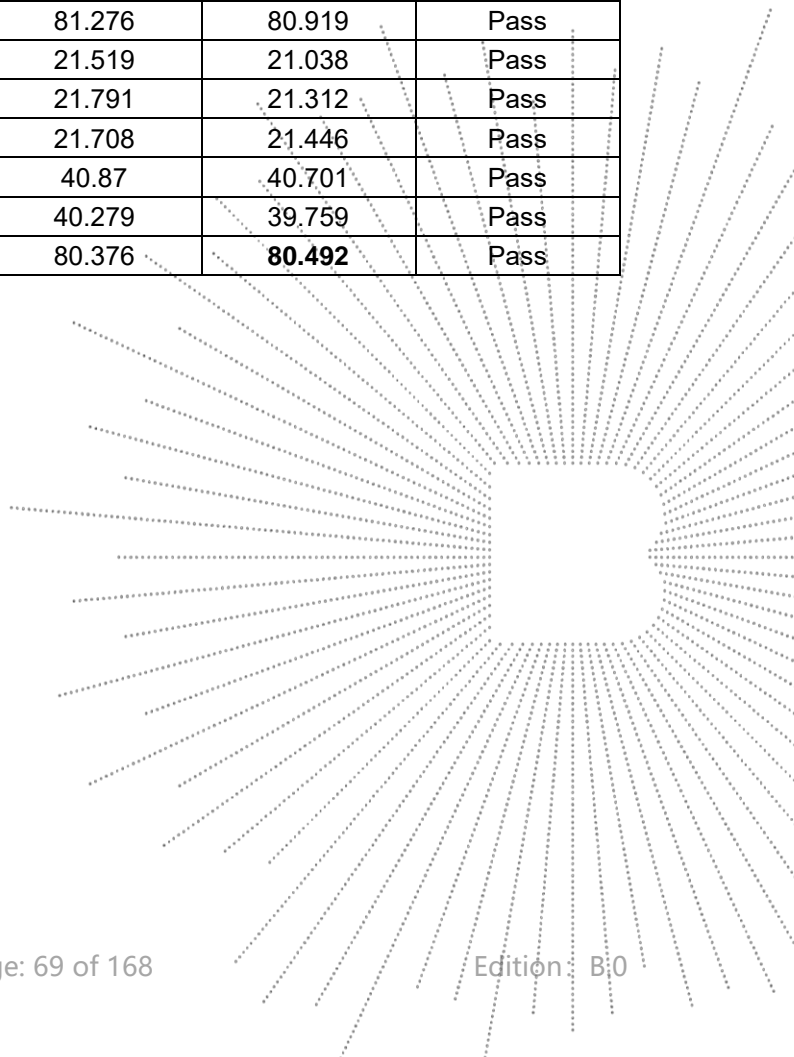
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



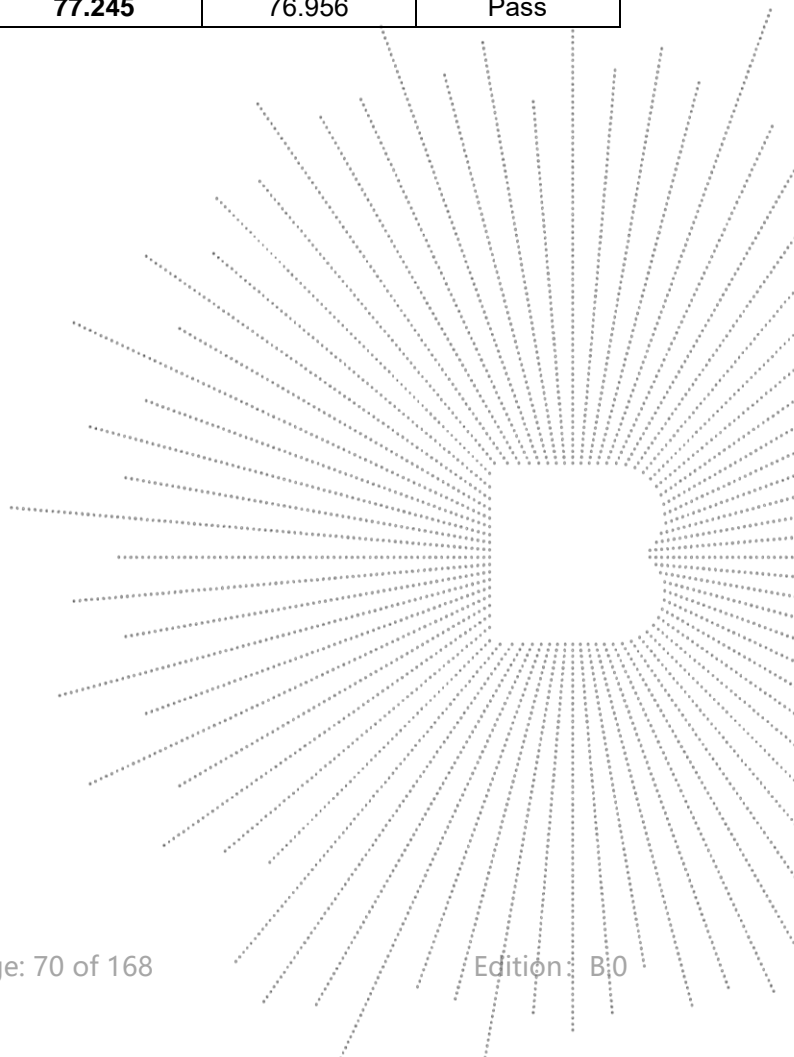
9.5 Test Result

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

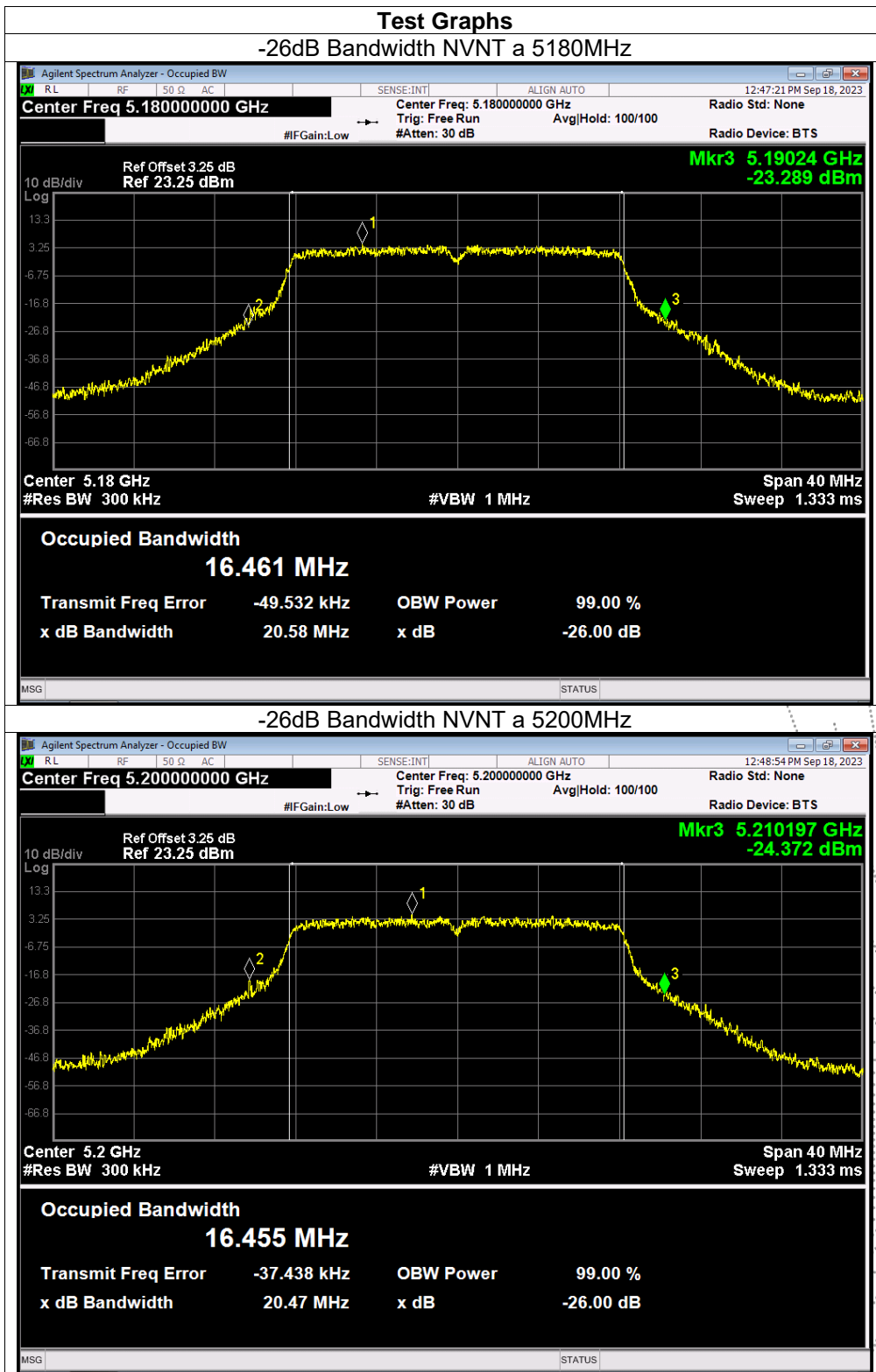
Mode	Channel	Frequency (MHz)	26dB bandwidth (MHz)		Result
			ANT A	ANT B	
802.11a	CH36	5180	20.418	20.578	Pass
	CH40	5200	20.507	20.468	Pass
	CH48	5240	20.626	20.285	Pass
802.11 n20	CH36	5180	20.64	21.001	Pass
	CH40	5200	20.882	21.058	Pass
	CH48	5240	21.083	21.349	Pass
802.11 n40	CH 38	5190	41.317	41.102	Pass
	CH 46	5230	40.89	41.672	Pass
802.11 ac20	CH36	5180	21.064	20.987	Pass
	CH40	5200	21.751	22.005	Pass
	CH48	5240	20.826	21.384	Pass
802.11 ac40	CH 38	5190	41.196	41.523	Pass
	CH 46	5230	41.279	41.011	Pass
802.11 ac80	CH 42	5210	81.276	80.919	Pass
802.11 ax20	CH36	5180	21.519	21.038	Pass
	CH40	5200	21.791	21.312	Pass
	CH48	5240	21.708	21.446	Pass
802.11 ax40	CH 38	5190	40.87	40.701	Pass
	CH 46	5230	40.279	39.759	Pass
802.11 ax80	CH 42	5210	80.376	80.492	Pass

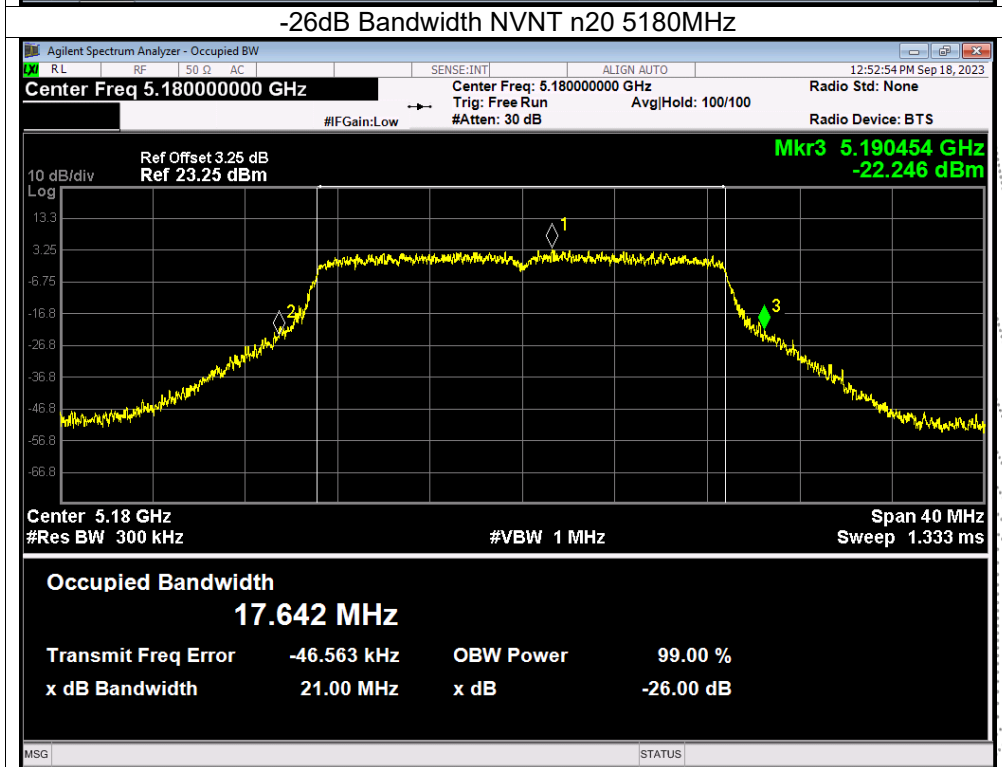
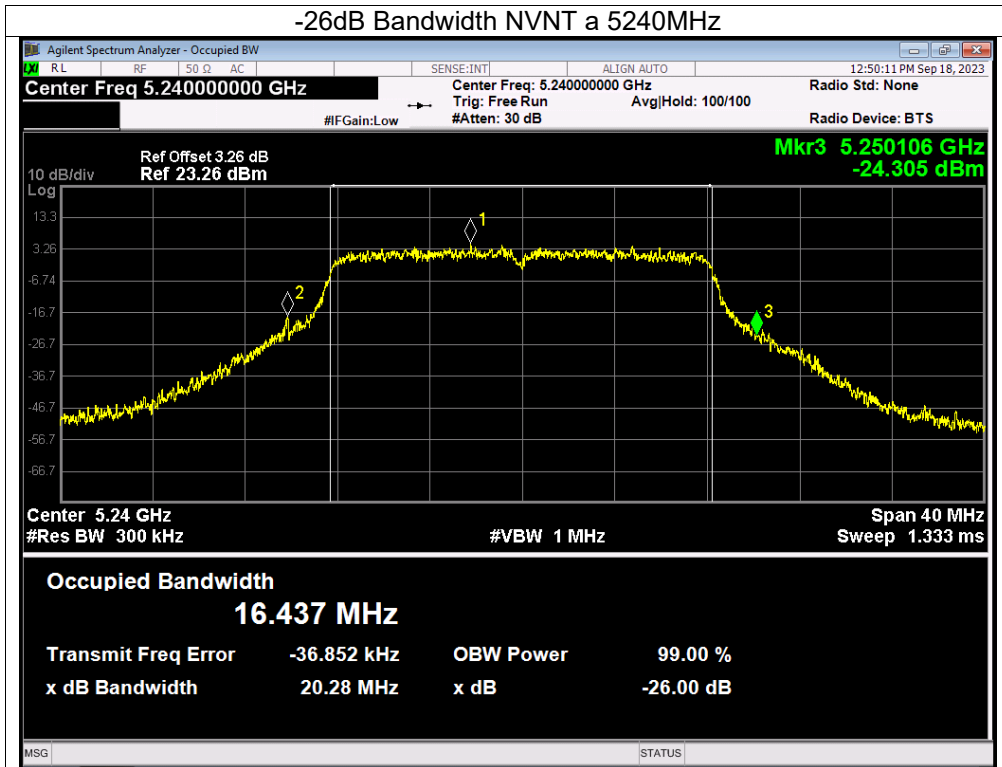


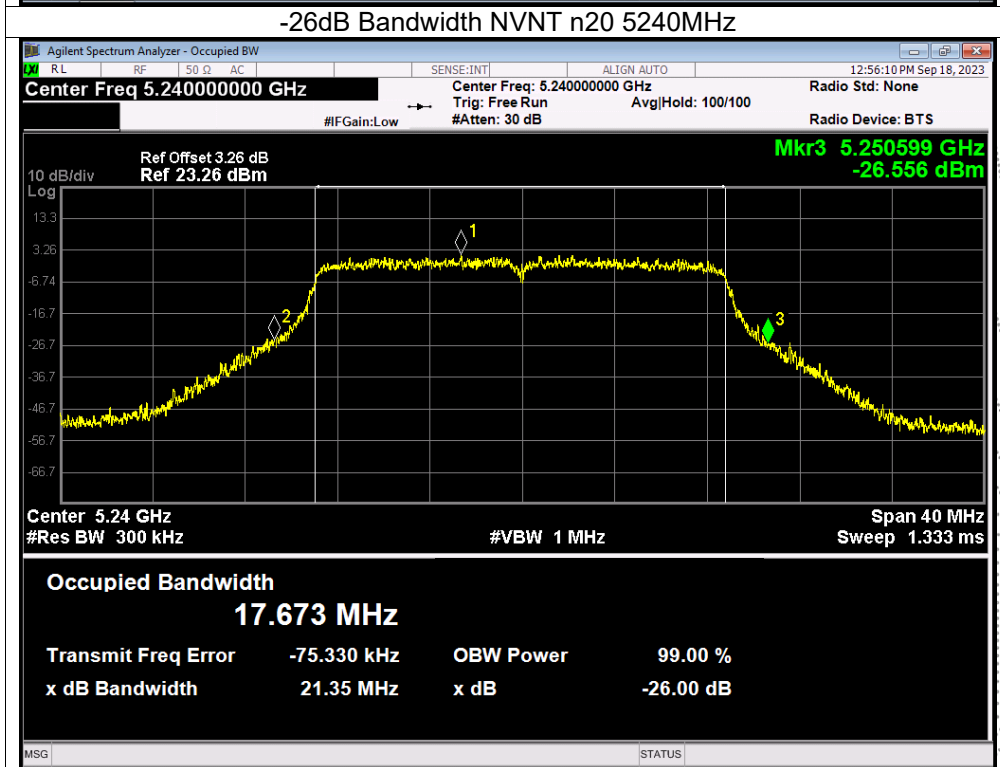
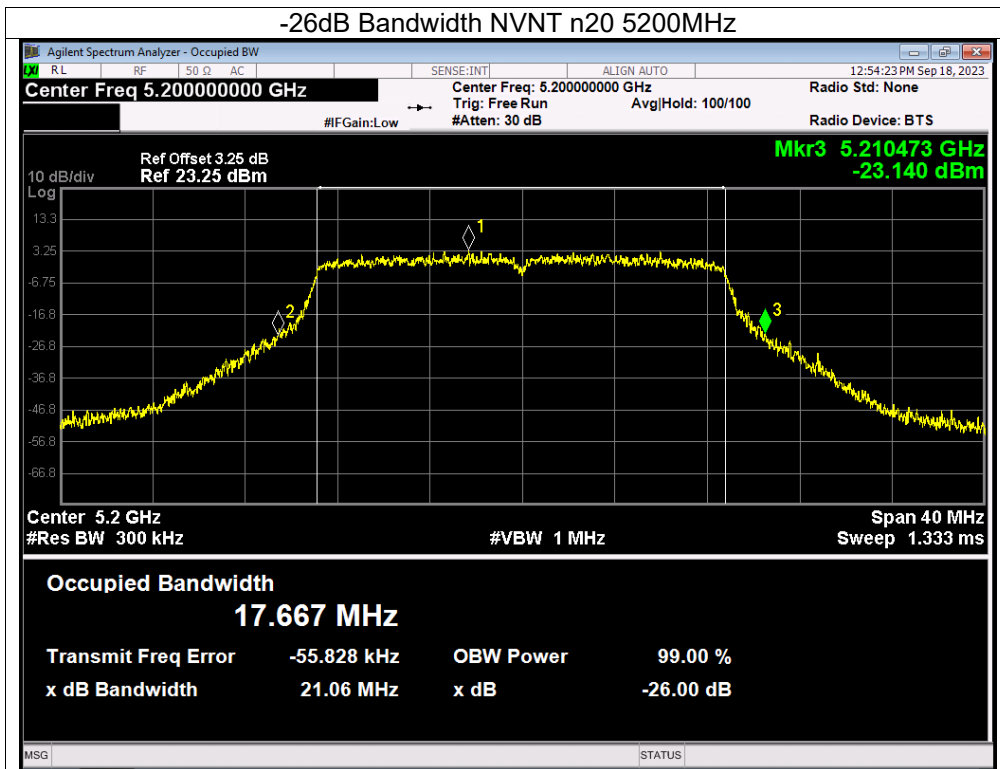
Mode	Channel	Frequency (MHz)	99% bandwidth (MHz)		Result
			ANT A	ANT B	
802.11a	CH36	5180	16.375	16.381	Pass
	CH40	5200	16.391	16.403	Pass
	CH48	5240	16.385	16.385	Pass
802.11 n20	CH36	5180	17.607	17.591	Pass
	CH40	5200	17.613	17.587	Pass
	CH48	5240	17.605	17.609	Pass
802.11 n40	CH 38	5190	36.074	36.067	Pass
	CH 46	5230	36.063	36.099	Pass
802.11 ac20	CH36	5180	17.604	17.611	Pass
	CH40	5200	17.607	17.607	Pass
	CH48	5240	17.581	17.607	Pass
802.11 ac40	CH 38	5190	36.098	36.023	Pass
	CH 46	5230	36.071	36.138	Pass
802.11 ac80	CH 42	5210	75.34	75.332	Pass
802.11 ax20	CH36	5180	18.897	18.941	Pass
	CH40	5200	18.871	18.906	Pass
	CH48	5240	18.94	18.918	Pass
802.11 ax40	CH 38	5190	37.737	37.735	Pass
	CH 46	5230	37.679	37.759	Pass
802.11 ax80	CH 42	5210	77.245	76.956	Pass

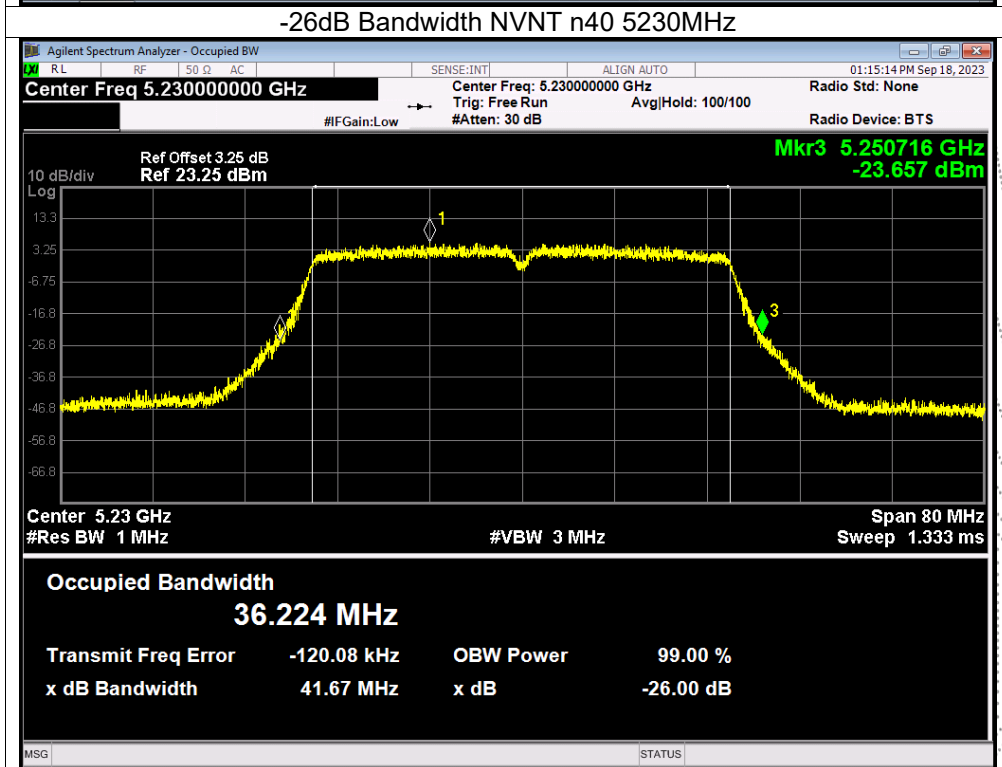
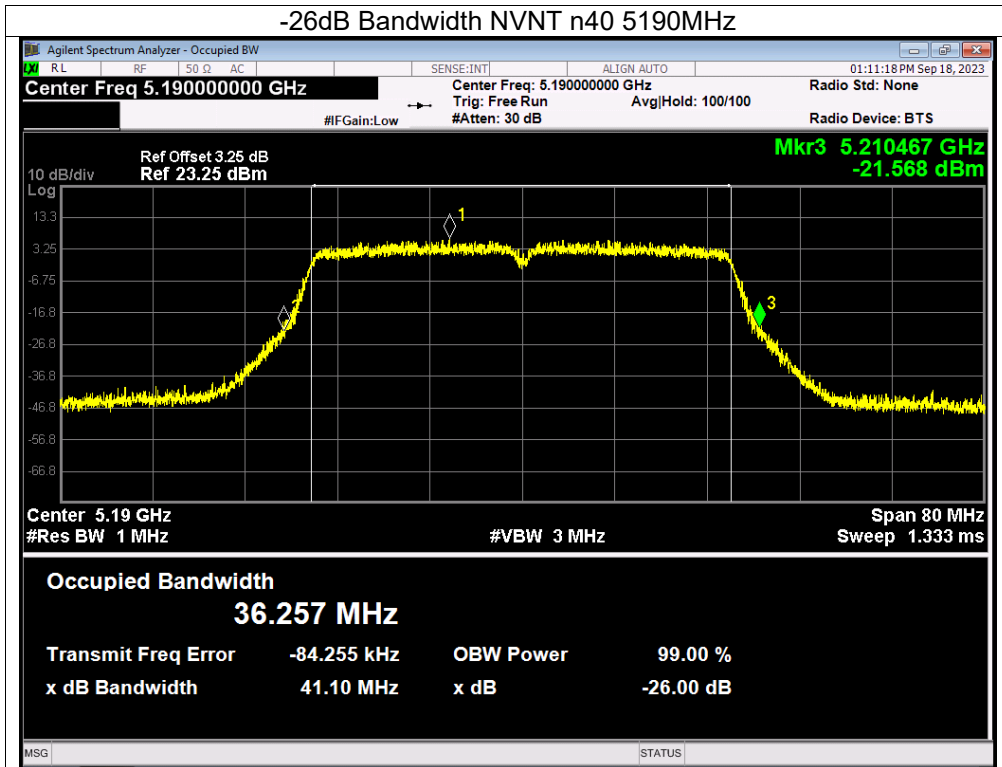


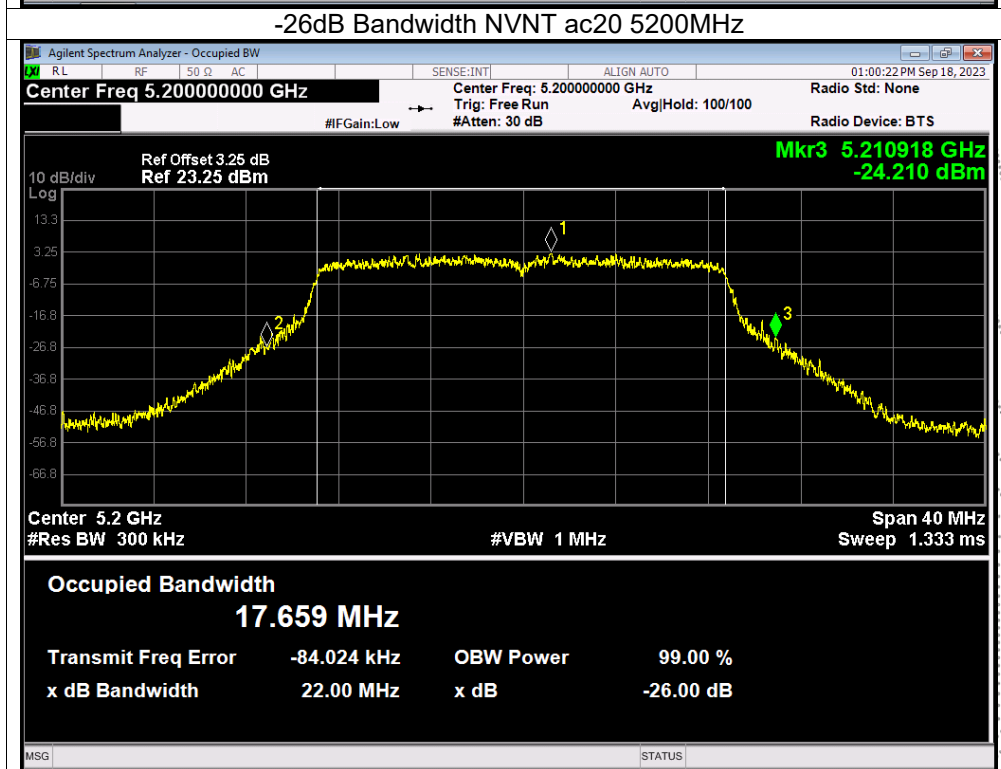
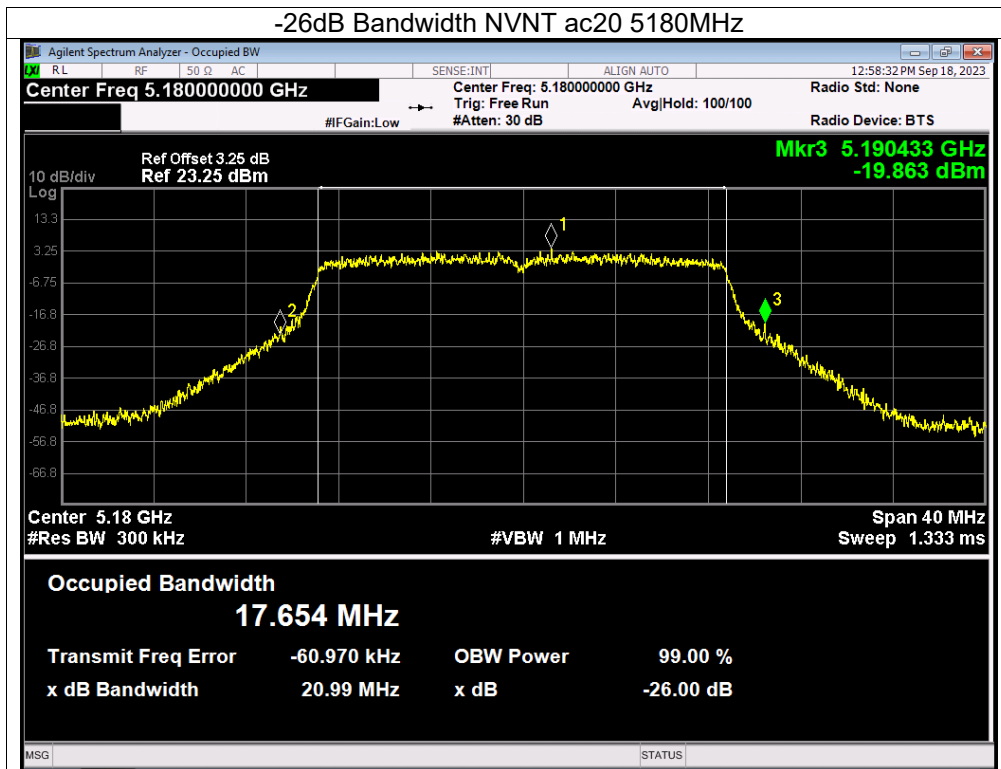
Note: A(B) Represent the value of antenna A and B. The worst data is Antenna B, only shown Antenna B Plot.

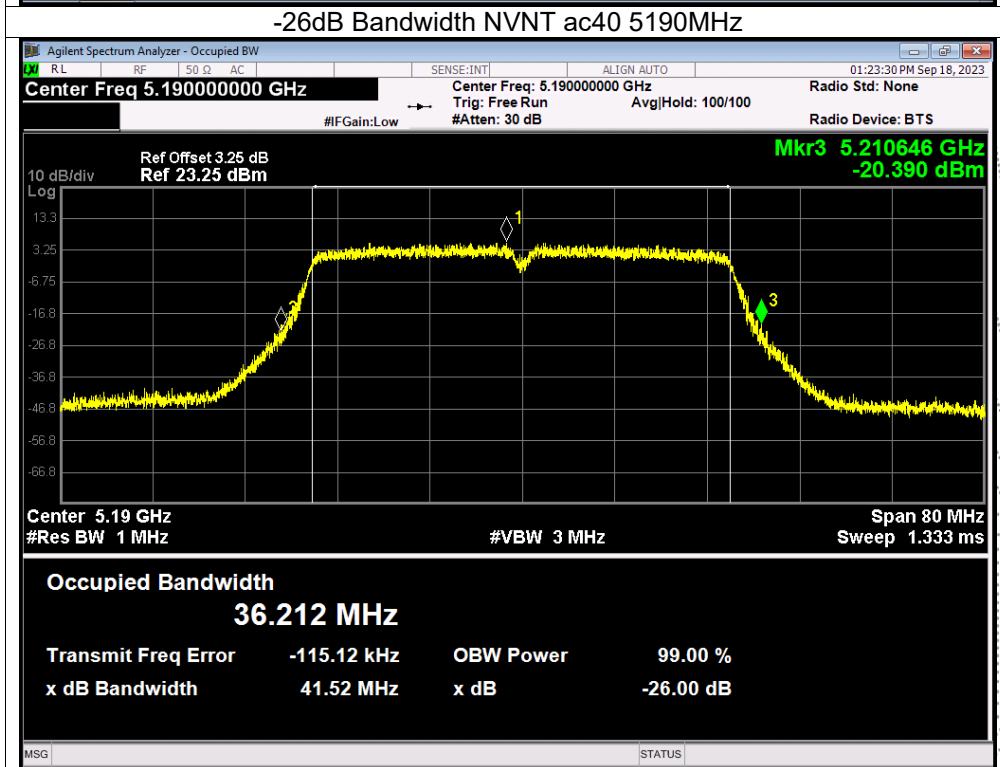
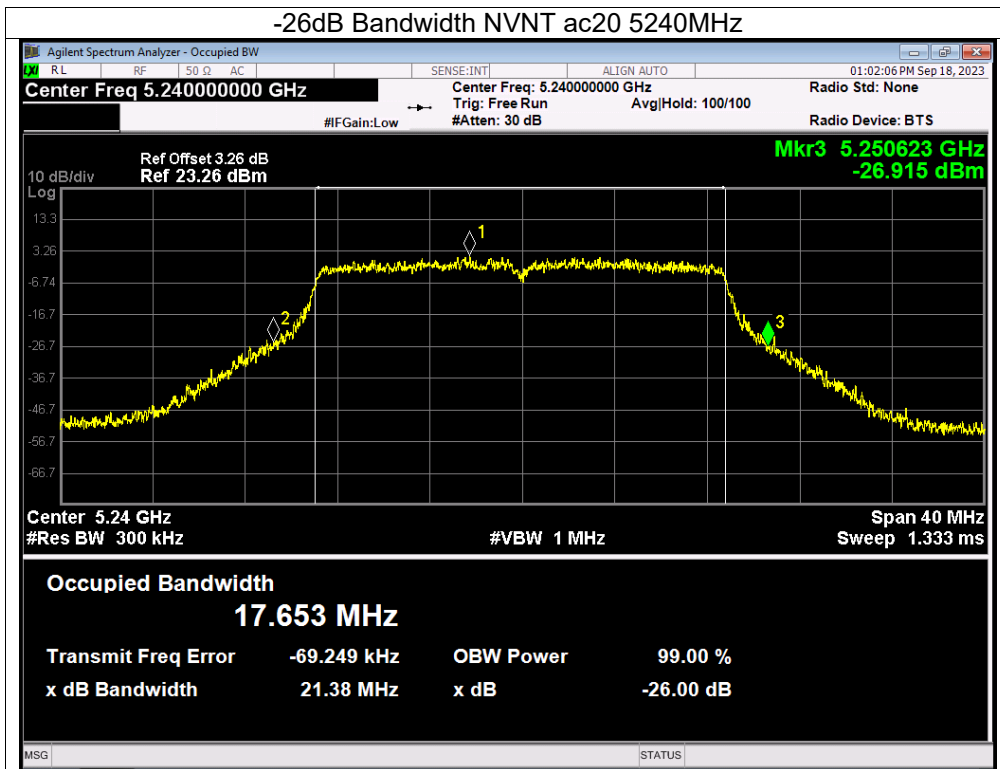


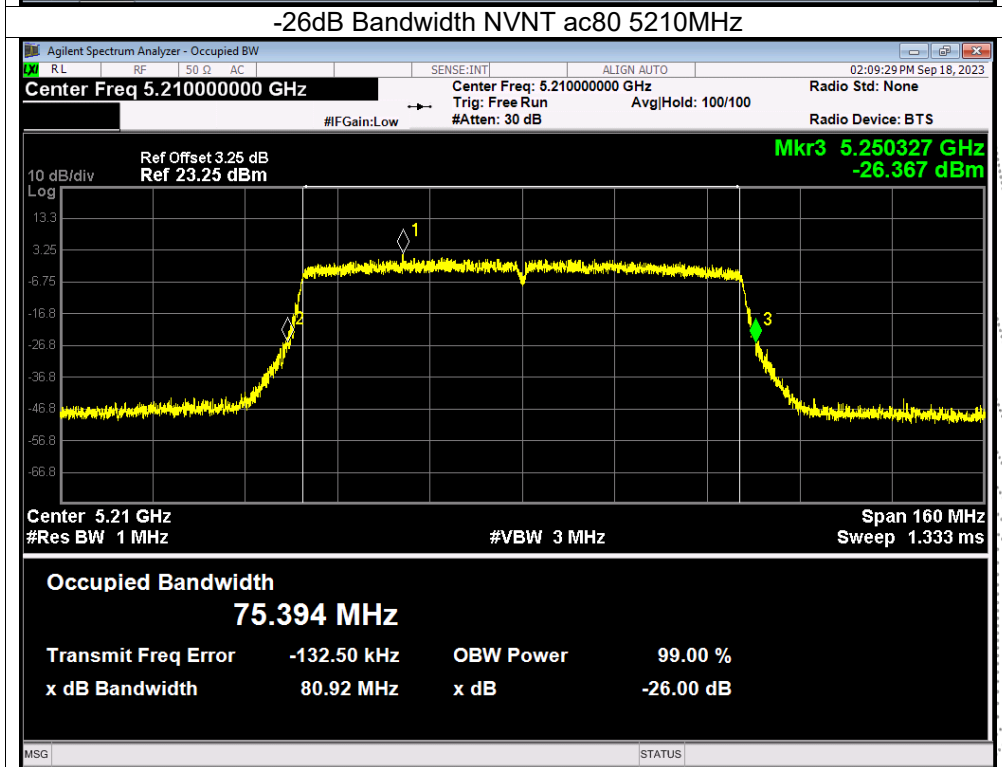
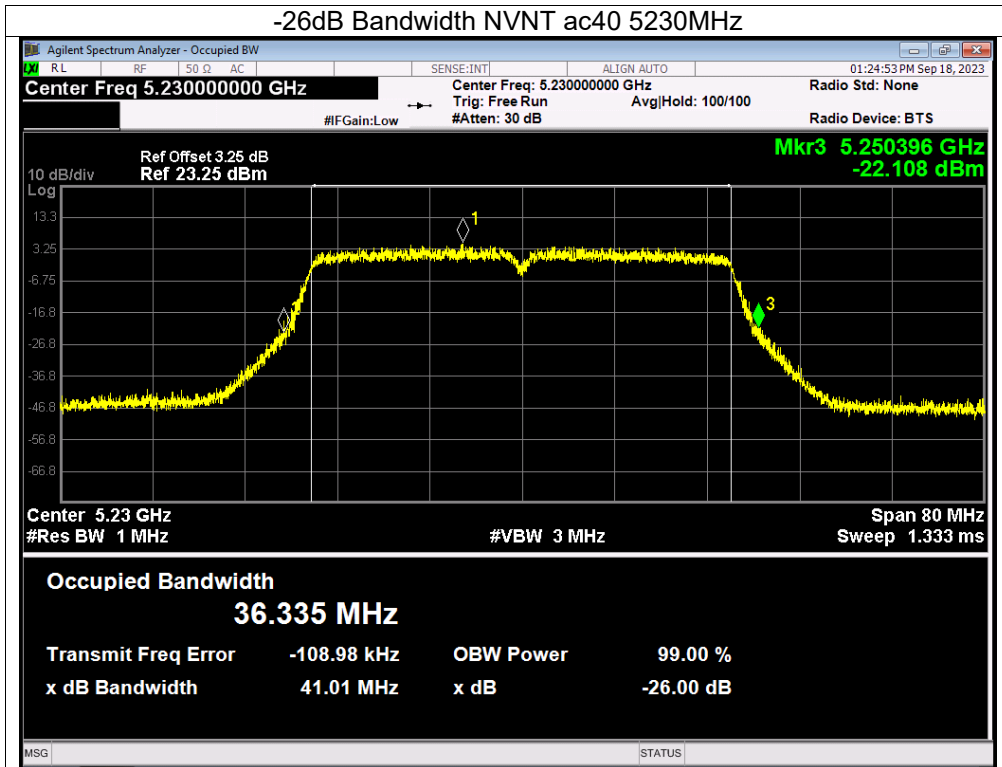


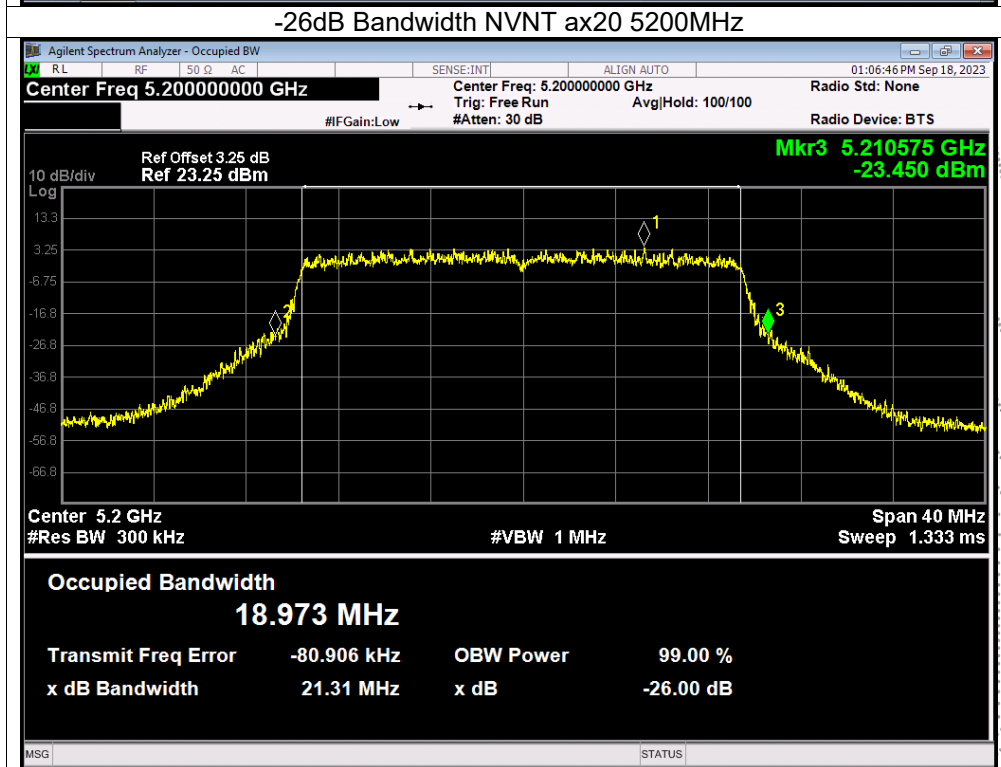
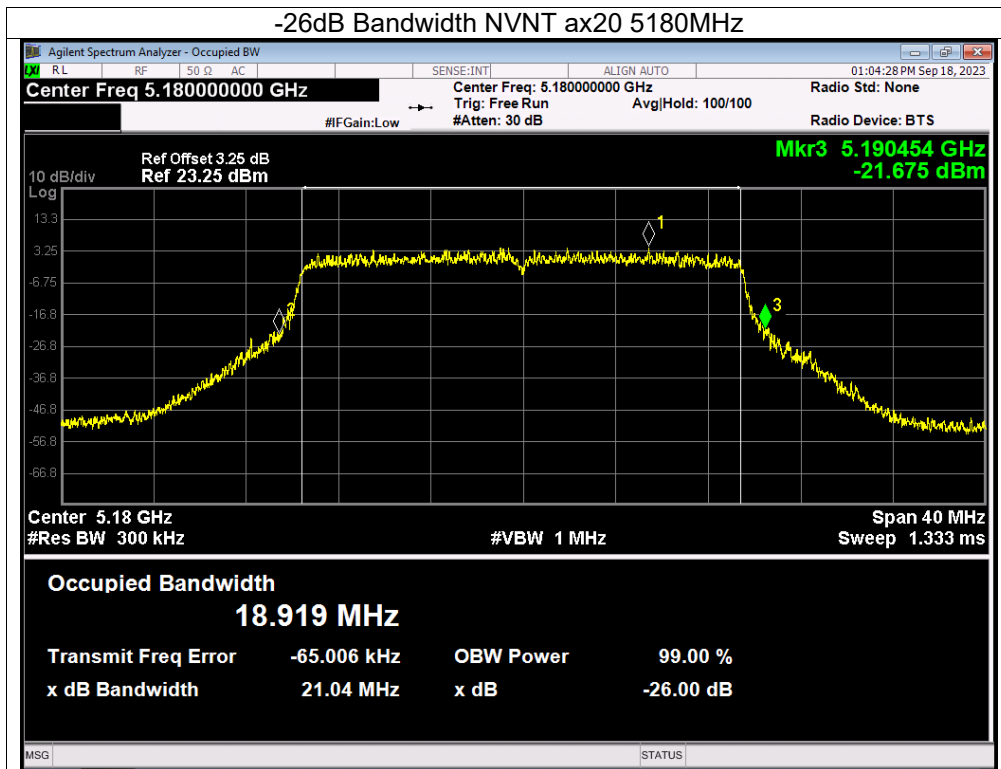


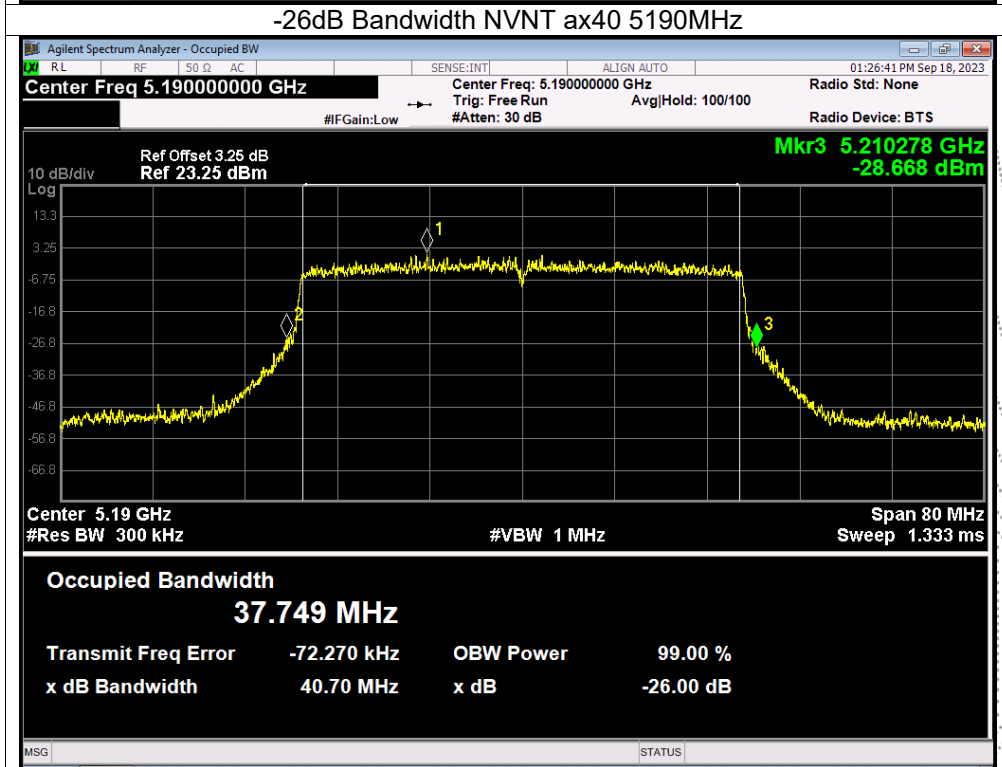
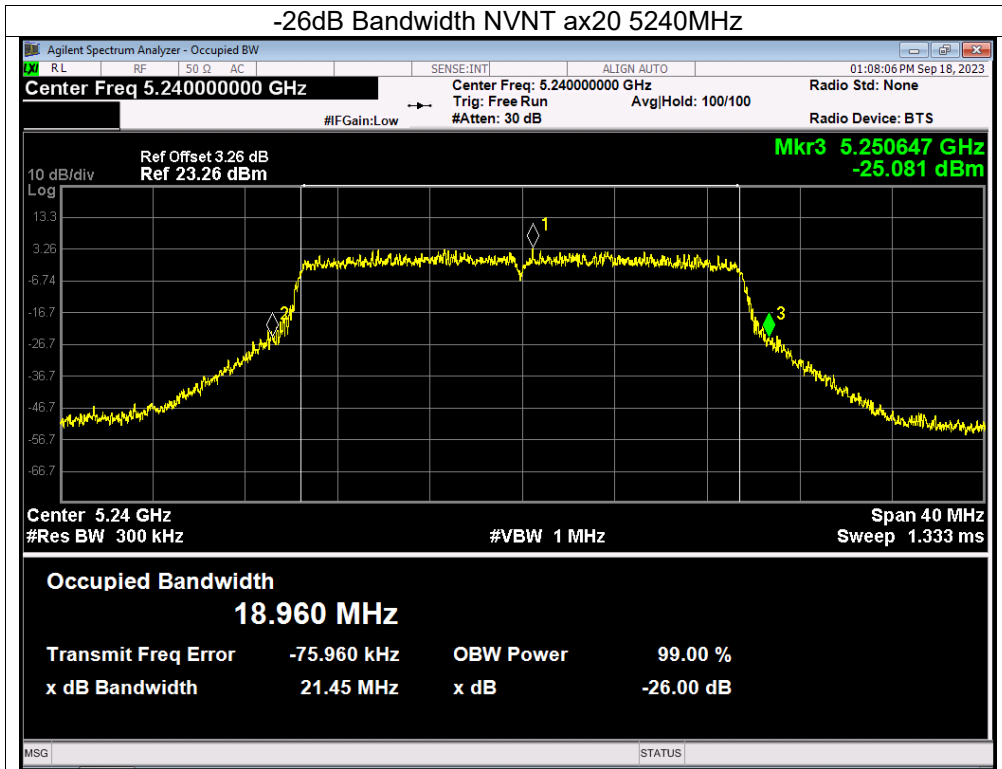


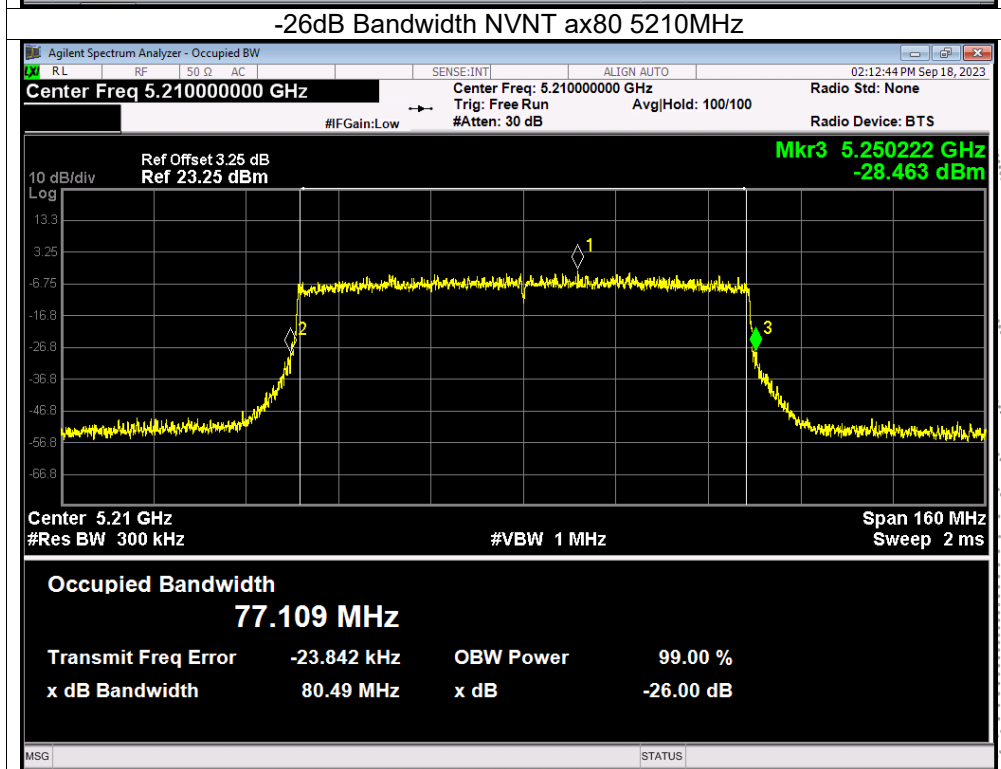
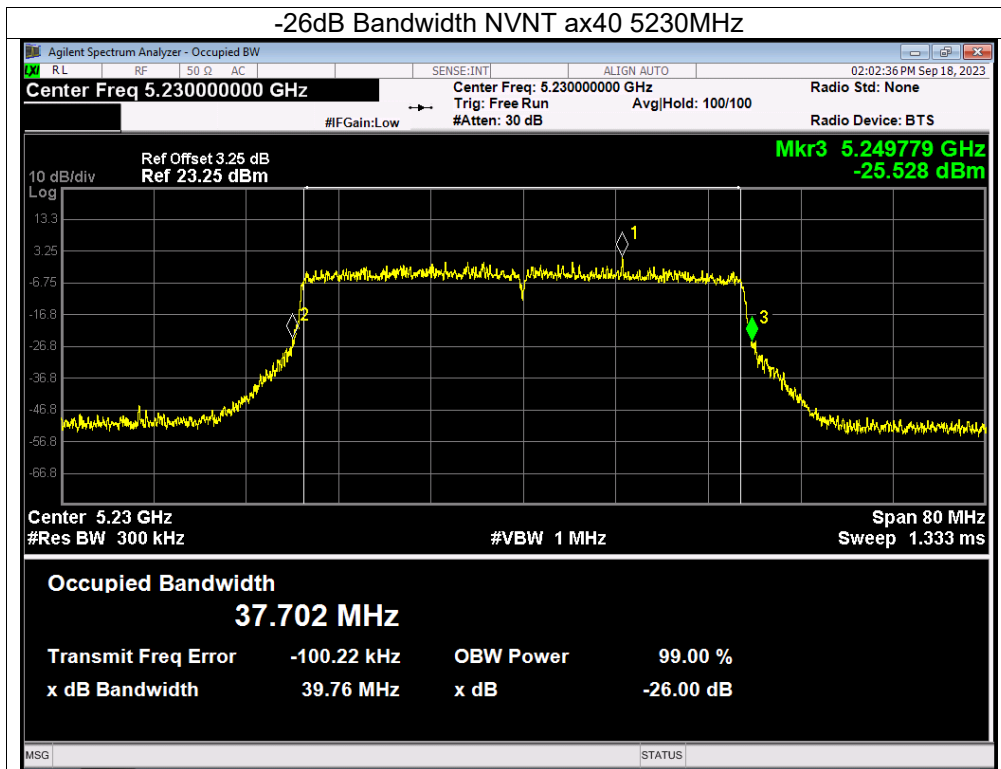












Note: A(B) Represent the value of antenna A and B. The worst data is Antenna A, only shown Antenna A Plot.

