

TEST REPORT

Report No.: BCTC2405778830-2E

Applicant: REOLINK INNOVATION LIMITED

Product Name: WiFi module

Test Model: WC0NR2201

Tested Date: 2024-05-16 to 2024-06-04

Issued Date: 2024-06-04

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AYHE-2404A

Product Name: WiFi module

Trademark:



Model/Type reference: WC0NR2201

Prepared For: REOLINK INNOVATION LIMITED

Address: FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG

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Sample Received Date: 2024-05-16

Sample tested Date: 2024-05-16 to 2024-06-04

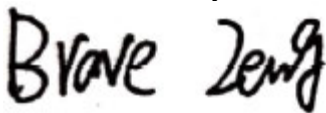
Issue Date: 2024-06-04

Report No.: BCTC2405778830-2E

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

Test Results: PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

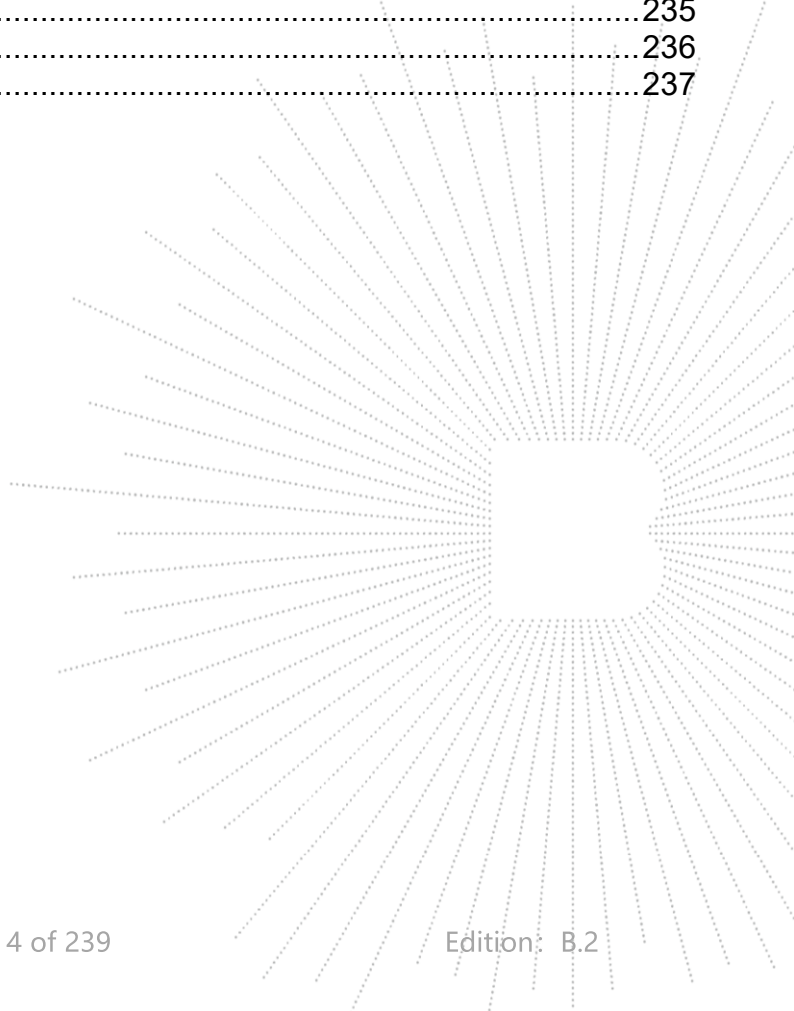
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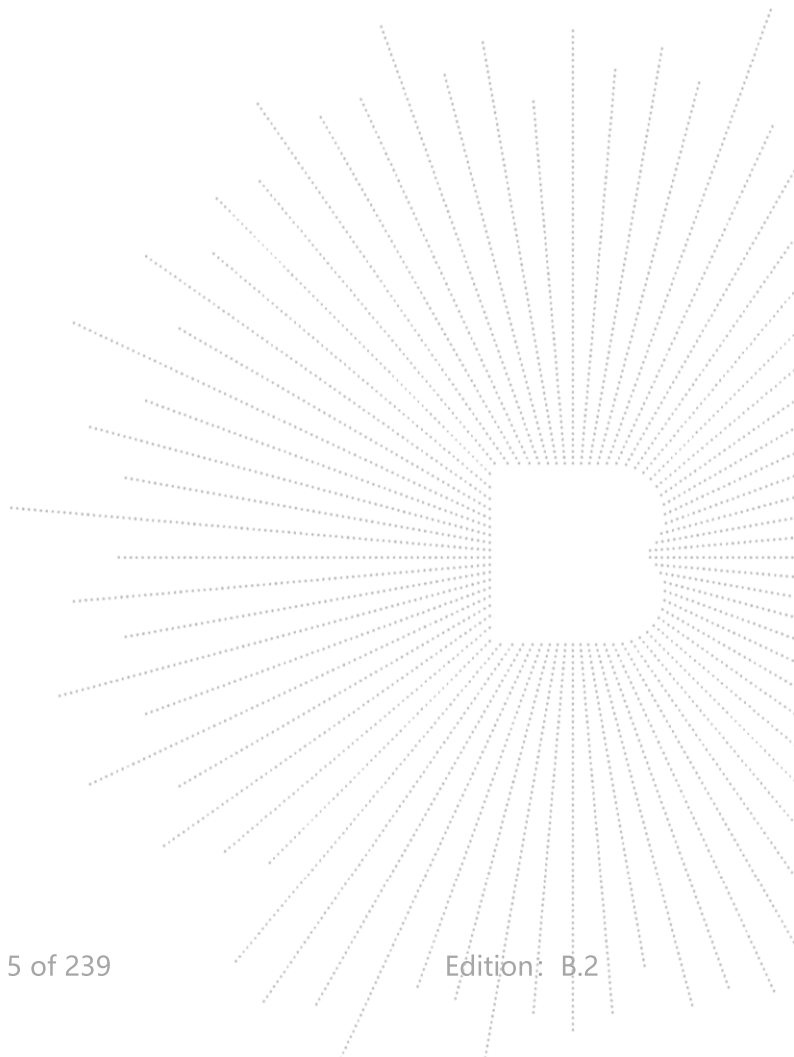
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2405778830-2E	2024-06-04	Original	Valid

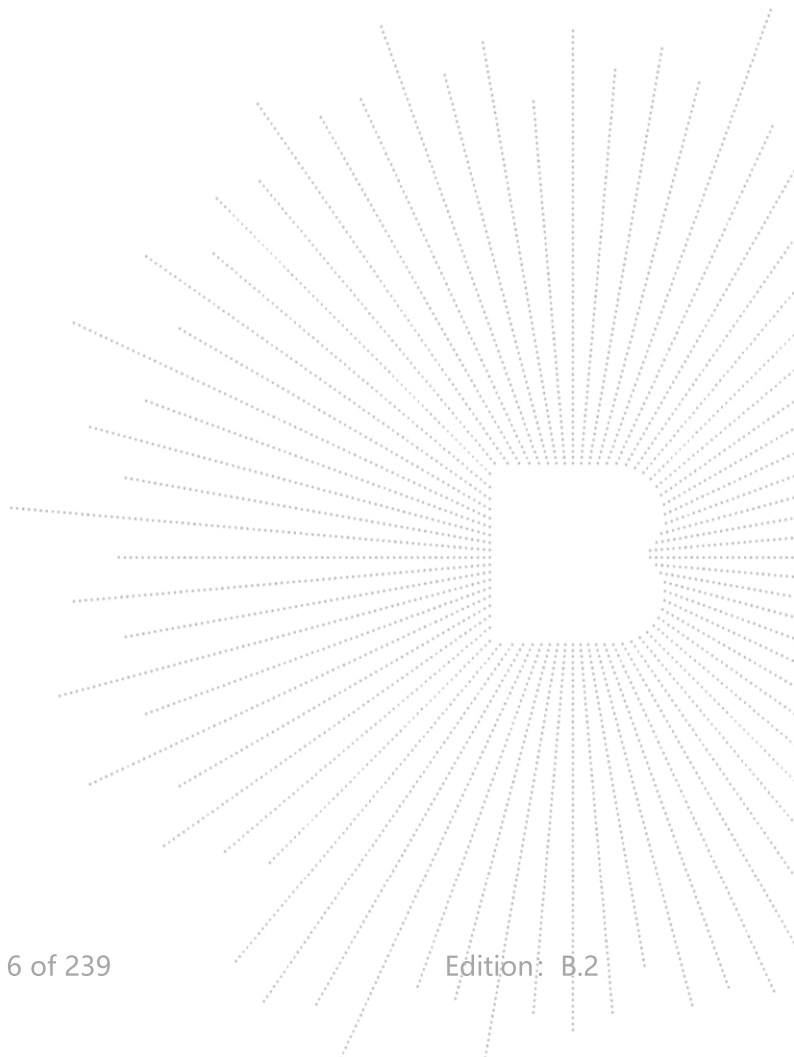


2. Test Summary

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)	PASS
2	Conducted Emission	15.207	PASS
3	26 dB and 99% Emission Bandwidth	15.407 a 15.1049	PASS
4	Minimum 6 dB bandwidth	15.407(e)	PASS
5	Maximum Conducted Output Power	15.407 a	PASS
6	Band Edge	15.407 b	PASS
7	Power Spectral Density	15.407 a	PASS
8	Spurious Emissions at Antenna Terminals	15.407 b	PASS
9	Antenna Requirement	15.203	PASS

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



3. Measurement Uncertainty

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

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

4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	WC0NR2201
Model differences:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
IEEE 802.11 WLAN Mode Supported	802.11a/n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth) 5180-5240MHz for 802.11a/n/ac(HT20); 5190-5230MHz for 802.11n/ac(HT40); 5210MHz for 802.11 ac80; 5260-5320MHz for 802.11a/n/ac(HT20); 5270-5310MHz for 802.11n/ac(HT40); 5290MHz for 802.11 ac80;
Operation Frequency:	5500-5700MHz for 802.11a/n/ac(HT20); 5410-5670MHz for 802.11n/ac(HT40); 5530MHz for 802.11 ac80; 5745-5825 MHz for 802.11a/n/ac(HT20); 5755-5795 MHz for 802.11n/ac(HT40); 5775MHz for 802.11 ac80
Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS9
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;
Antenna installation:	FPC antenna*2 Antenna A: 5.0 dBi, Antenna B: 3.9 dBi
Antenna Gain:	Remark: ☒ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☐ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Ratings:	DC 3.3V

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	WiFi module		WC0NR2201	N/A	EUT
E-2	PC	Lenovo	ThinkPad S2	---	Auxiliary

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

(U-NII-1) 5180MHz-5240MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency
20MHz	36	5180	40	5200
	44	5220	48	5240
40MHz	38	5190	46	5230
80MHz	42	5210		
(U-NII-2A) 5260MHz-5320MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency
20MHz	52	5260	56	5280
	60	5300	64	5320
40MHz	54	5270	62	5310
80MHz	58	5290		
(U-NII-2C) 5500MHz-5700MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency
20MHz	100	5500	105	5520
	108	5540	112	5560
	116	5580	132	5660
	136	5680	140	5700
40MHz	102	5510	110	5550
	134	5670	142	5710
80MHz	106	5530		
(U-NII-3) 5745MHz-5825MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency
20MHz	149	5745	153	5765
	157	5785	161	5805
	165	5825		
40MHz	151	5775	159	5795
80MHz	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 CH36/ CH40/ CH 48 802.11a / n/ ac 20 CH52/ CH56/ CH 64 802.11a / n/ ac 20 CH100/ CH116/ CH 140 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH54/ CH 62 802.11n/ ac40 CH102/ CH 110/CH134 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/ CH 58/ CH 106/ CH 155
Mode 4	WIFI Link

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

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

Ant.	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
A	N/A	N/A	FPC antenna	5.0	N/A
B	N/A	N/A	FPC antenna	3.9	N/A

EUT has two FPC antenna with Max gain GANT 5 dBi on every antenna, CDD device with one spatial streams, also can operat with one spatial streams according to KDB662911 D01 v02r01, Directional gain= GANT + Array Gain, where Array Gain is as follows.

1)For power spectral density(PSD) measurements,
 $\text{Array Gain} = 10\log(\text{NANT}/\text{NSS})\text{dB} = 10\log(2/1) = 3.01 \text{ dBi}$,
 So the directional gain for PSD is 8.01 dBi
 2)For power measurements,
 The Array gain=0 for $\text{NANT} \leq 4$,
 So the directional gain for Power measurements is 5 dBi

Directional gain may be calculated by using the formulas applicable to equal gain antenna swith 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

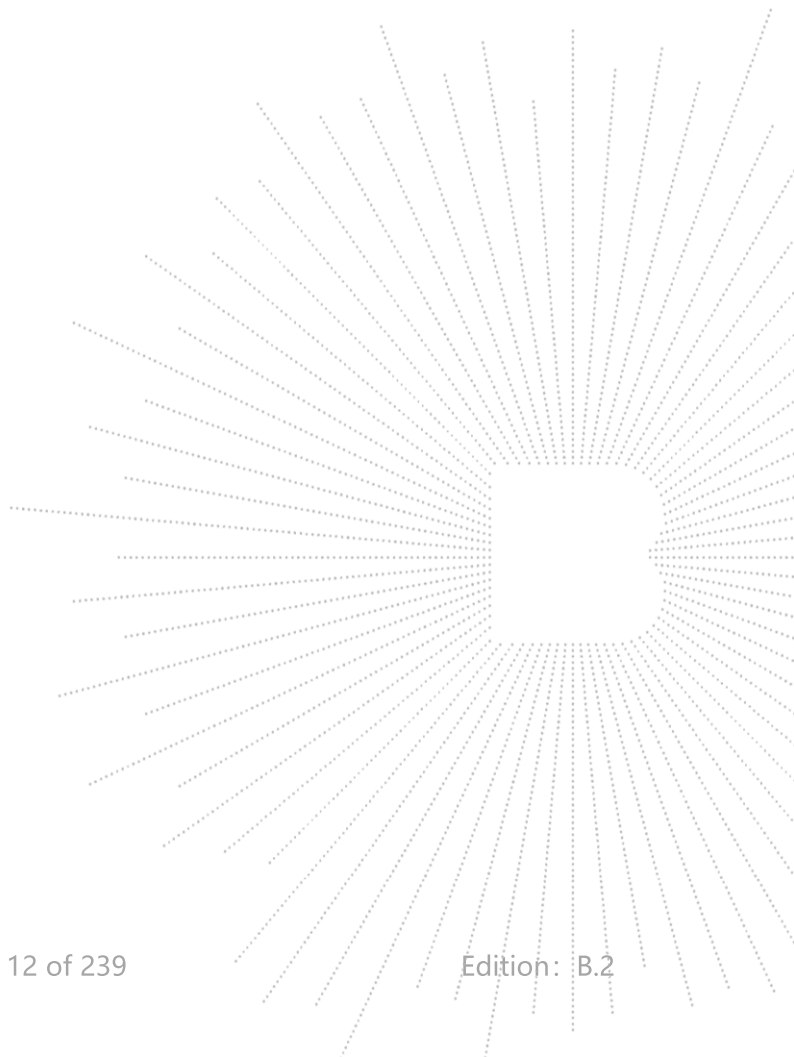
ISED CAB identifier: CN0017

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

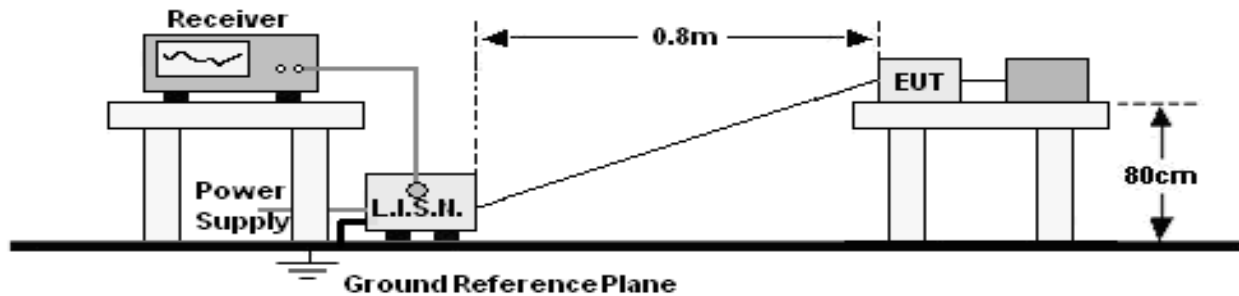
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 16, 2024	May 15, 2025
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025
Spectrum Analyzer9kHz-40GHz	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:

- *Decreasing linearly with logarithm of frequency.
- 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

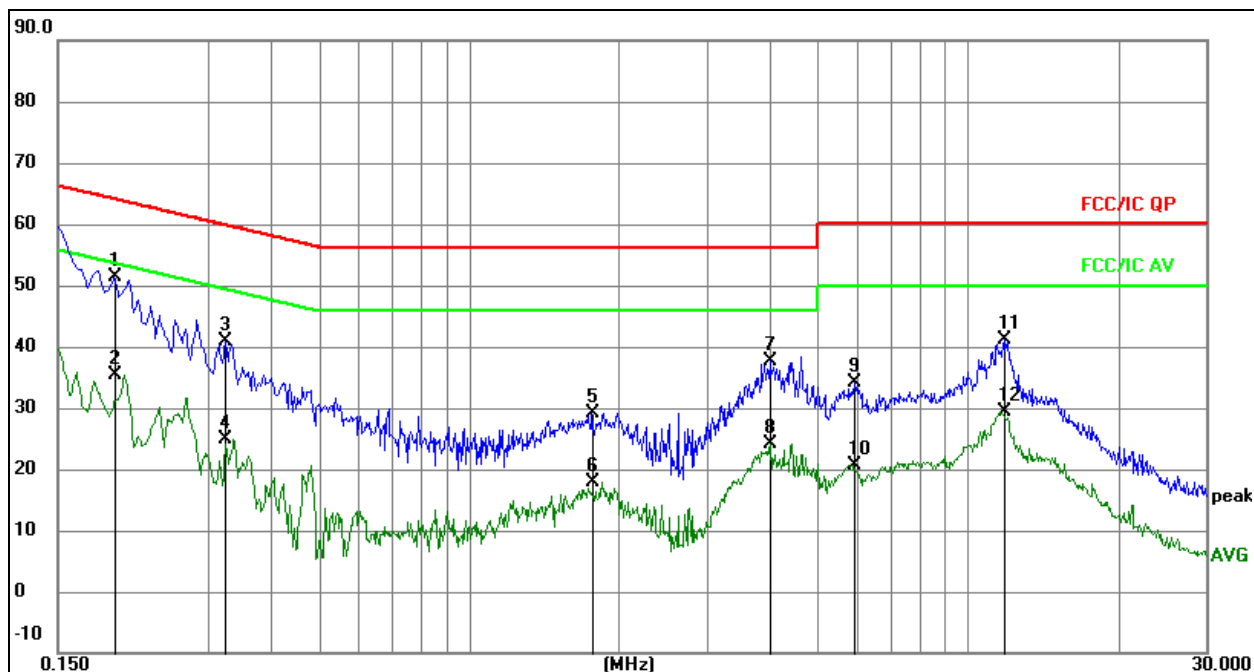
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 4	Polarization :	L

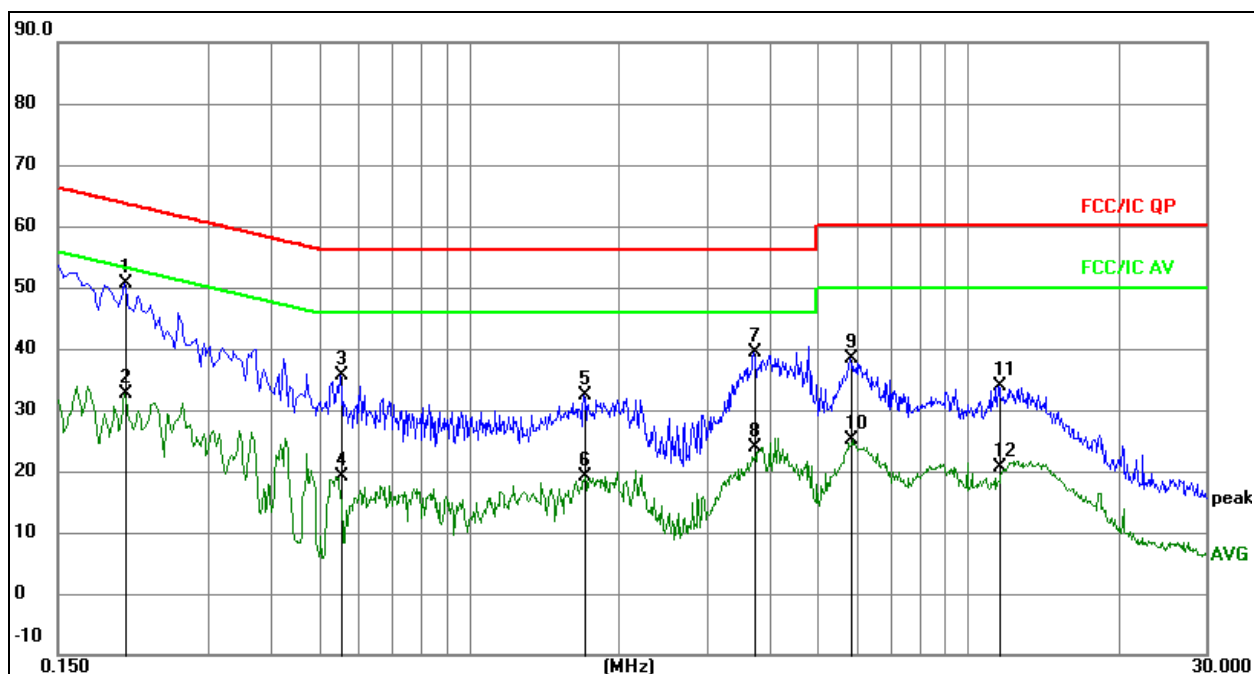


Remark:

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	*	0.1945	31.58	19.82	51.40	63.84	-12.44	QP
2		0.1945	15.49	19.82	35.31	53.84	-18.53	AVG
3		0.3251	20.98	19.83	40.81	59.58	-18.77	QP
4		0.3251	4.98	19.83	24.81	49.58	-24.77	AVG
5		1.7623	9.26	19.95	29.21	56.00	-26.79	QP
6		1.7623	-2.14	19.95	17.81	46.00	-28.19	AVG
7		4.0062	17.06	20.66	37.72	56.00	-18.28	QP
8		4.0062	3.35	20.66	24.01	46.00	-21.99	AVG
9		5.9293	14.01	20.21	34.22	60.00	-25.78	QP
10		5.9293	0.50	20.21	20.71	50.00	-29.29	AVG
11		11.8697	21.13	19.88	41.01	60.00	-18.99	QP
12		11.8697	9.40	19.88	29.28	50.00	-20.72	AVG

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


Remark:

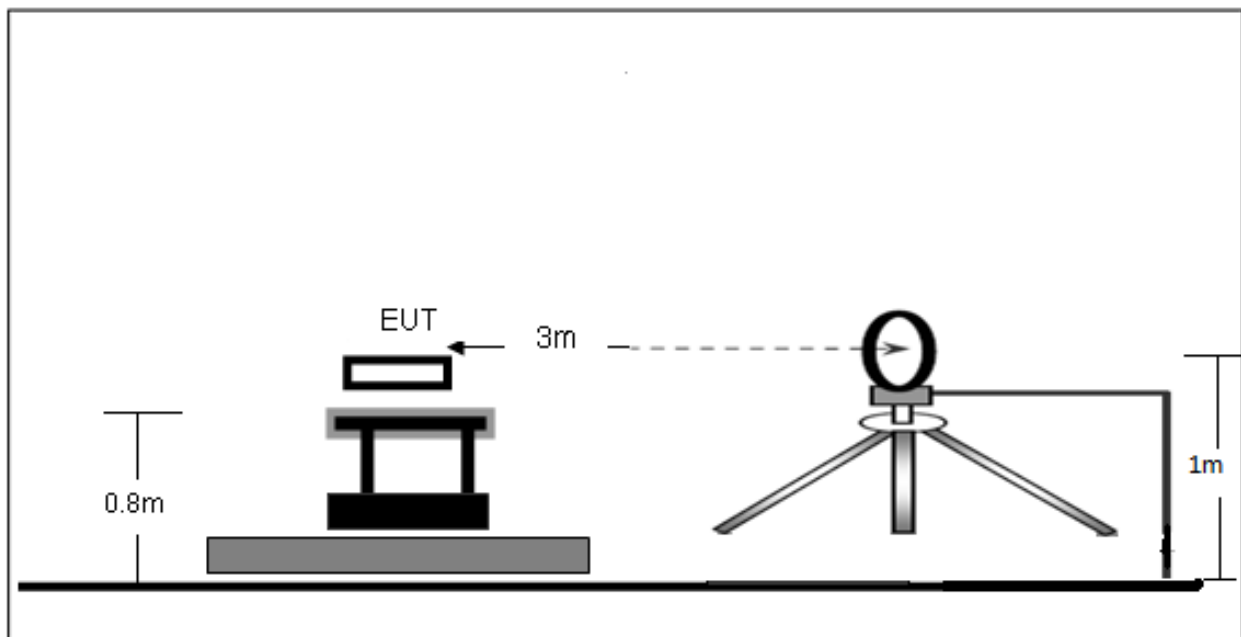
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz		dB	dBuV	dBuV	dB	
1	*	0.2040	30.89	19.83	50.72	63.45	-12.73	QP
2		0.2040	12.87	19.83	32.70	53.45	-20.75	AVG
3		0.5550	15.83	19.84	35.67	56.00	-20.33	QP
4		0.5550	-0.71	19.84	19.13	46.00	-26.87	AVG
5		1.7070	12.50	19.95	32.45	56.00	-23.55	QP
6		1.7070	-0.86	19.95	19.09	46.00	-26.91	AVG
7		3.7320	18.71	20.56	39.27	56.00	-16.73	QP
8		3.7320	3.39	20.56	23.95	46.00	-22.05	AVG
9		5.8110	18.11	20.24	38.35	60.00	-21.65	QP
10		5.8110	4.81	20.24	25.05	50.00	-24.95	AVG
11		11.5440	14.11	19.88	33.99	60.00	-26.01	QP
12		11.5440	0.67	19.88	20.55	50.00	-29.45	AVG

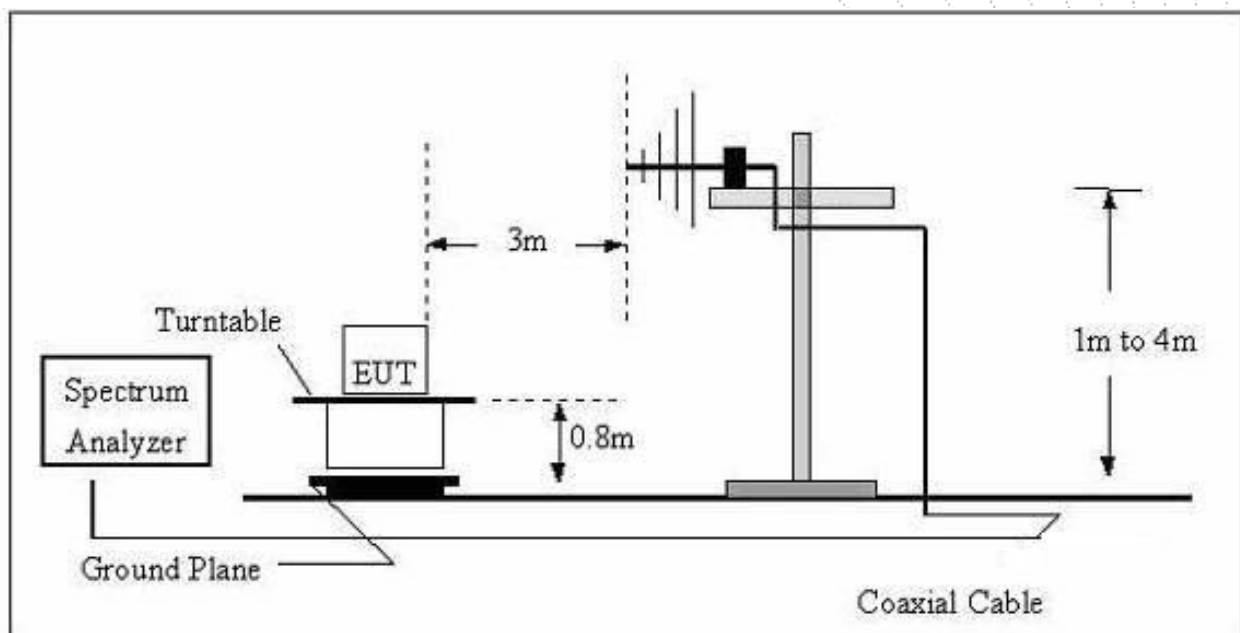
7. Radiated Emissions

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:	101 kPa	Test Voltage :	AC 120V/60Hz
Test Mode:	Mode 4	Polarization:	--

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

Note:

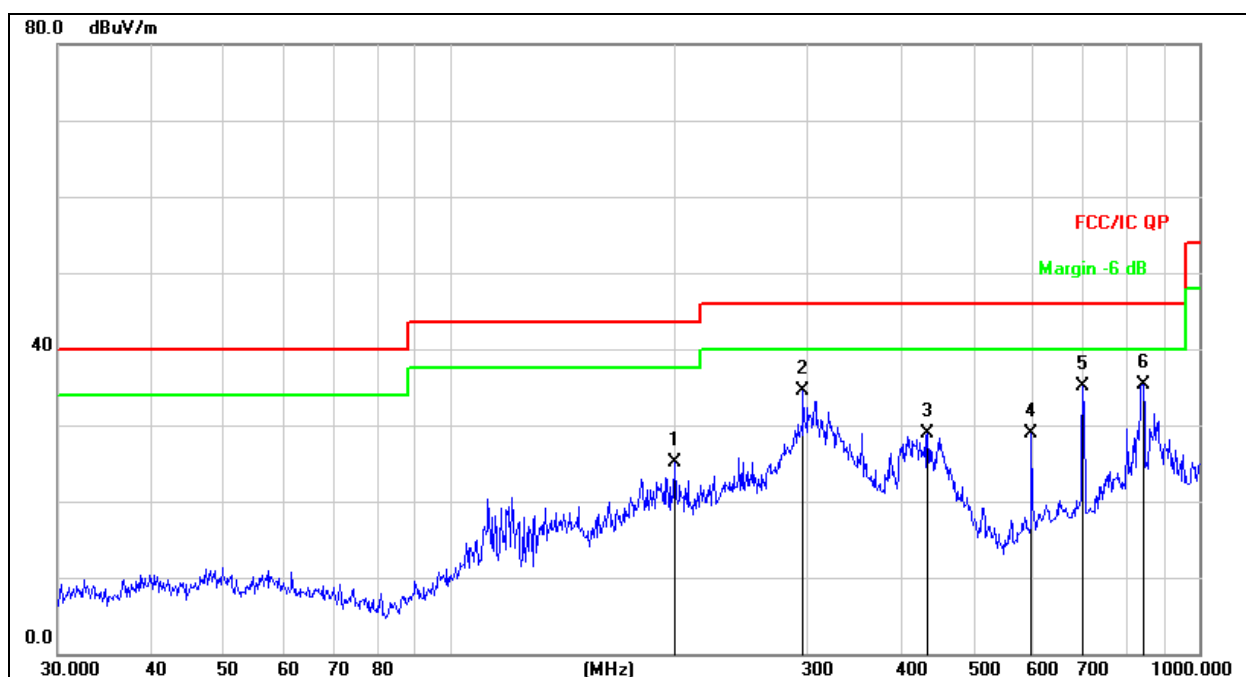
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

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

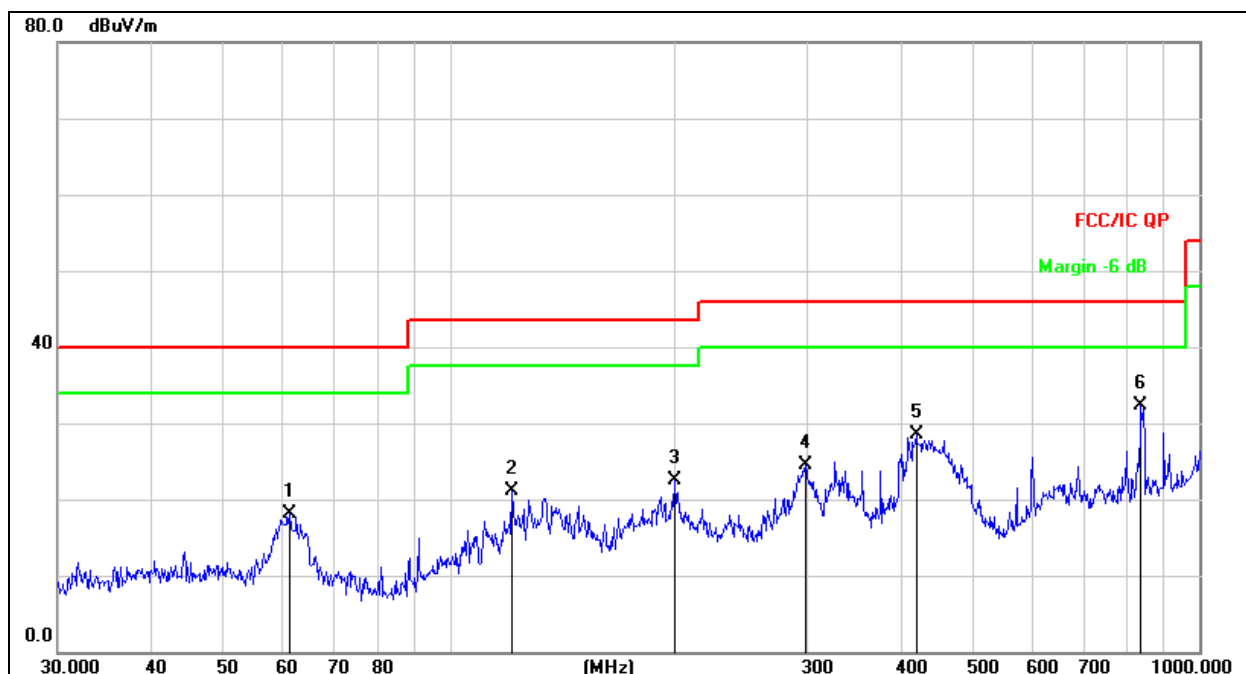


Remark:

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		199.9856	40.88	-15.72	25.16	43.50	-18.34	QP
2		296.1836	47.85	-13.32	34.53	46.00	-11.47	QP
3		434.0651	39.17	-10.17	29.00	46.00	-17.00	QP
4		597.2234	36.09	-7.21	28.88	46.00	-17.12	QP
5		699.3046	40.78	-5.72	35.06	46.00	-10.94	QP
6	*	842.1296	39.44	-4.05	35.39	46.00	-10.61	QP

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



Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		61.1316	33.65	-15.56	18.09	40.00	-21.91	QP
2		121.1231	38.51	-17.41	21.10	43.50	-22.40	QP
3		199.2855	38.19	-15.77	22.42	43.50	-21.08	QP
4		298.2681	37.74	-13.28	24.46	46.00	-21.54	QP
5		419.1081	38.91	-10.47	28.44	46.00	-17.56	QP
6	*	836.2443	36.42	-4.10	32.32	46.00	-13.68	QP

Test Mode:	TX(5.1G) - 802.11a
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.19	71.52	-20.73	50.79	68.20	-17.41	PK
Vertical	4434.19	59.09	-20.73	38.36	54.00	-15.64	AV
Vertical	10360.17	64.85	-9.36	55.49	68.20	-12.71	PK
Vertical	10360.17	49.31	-9.36	39.95	54.00	-14.05	AV
Vertical	15540.18	61.18	-7.84	53.34	74.00	-20.66	PK
Vertical	15540.18	49.44	-7.84	41.60	54.00	-12.40	AV
Horizontal	4434.04	73.81	-20.73	53.08	68.20	-15.12	PK
Horizontal	4434.04	59.48	-20.73	38.75	54.00	-15.25	AV
Horizontal	10360.13	61.58	-9.36	52.22	68.20	-15.98	PK
Horizontal	10360.13	49.31	-9.36	39.95	54.00	-14.05	AV
Horizontal	15540.13	63.44	-7.84	55.60	74.00	-18.40	PK
Horizontal	15540.13	49.04	-7.84	41.20	54.00	-12.80	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.15	70.26	-20.42	49.85	74.00	-24.15	PK
Vertical	4592.15	59.15	-20.42	38.73	54.00	-15.27	AV
Vertical	10400.17	63.48	-9.30	54.18	68.20	-14.02	PK
Vertical	10400.17	49.32	-9.30	40.02	54.00	-13.98	AV
Vertical	15600.14	64.92	-7.82	57.10	74.00	-16.90	PK
Vertical	15600.14	49.59	-7.82	41.77	54.00	-12.23	AV
Horizontal	4592.12	70.29	-20.42	49.87	74.00	-24.13	PK
Horizontal	4592.12	59.38	-20.42	38.97	54.00	-15.03	AV
Horizontal	10400.10	60.72	-9.30	51.42	68.20	-16.78	PK
Horizontal	10400.10	49.21	-9.30	39.91	54.00	-14.09	AV
Horizontal	15600.15	62.84	-7.82	55.02	74.00	-18.98	PK
Horizontal	15600.15	49.02	-7.82	41.20	54.00	-12.80	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.20	73.57	-20.12	53.45	74.00	-20.55	PK
Vertical	4739.20	59.84	-20.12	39.72	54.00	-14.28	AV
Vertical	10480.11	62.62	-9.18	53.44	68.20	-14.76	PK
Vertical	10480.11	49.66	-9.18	40.48	54.00	-13.52	AV
Vertical	15720.17	61.12	-7.78	53.34	74.00	-20.66	PK
Vertical	15720.17	49.78	-7.78	42.00	54.00	-12.00	AV
Horizontal	4739.08	74.94	-20.12	54.82	74.00	-19.18	PK
Horizontal	4739.08	59.48	-20.12	39.36	54.00	-14.64	AV
Horizontal	10480.05	62.02	-9.18	52.84	68.20	-15.36	PK
Horizontal	10480.05	49.23	-9.18	40.05	54.00	-13.95	AV
Horizontal	15720.18	61.55	-7.78	53.77	74.00	-20.23	PK
Horizontal	15720.18	49.15	-7.78	41.37	54.00	-12.63	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)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.20	72.91	-20.73	52.17	68.20	-16.03	PK
Vertical	4434.20	59.19	-20.73	38.46	54.00	-15.54	AV
Vertical	10360.16	62.44	-9.36	53.08	68.20	-15.12	PK
Vertical	10360.16	49.50	-9.36	40.14	54.00	-13.86	AV
Vertical	15540.01	63.04	-7.84	55.20	74.00	-18.80	PK
Vertical	15540.01	49.65	-7.84	41.81	54.00	-12.19	AV
Horizontal	4434.14	74.03	-20.73	53.30	68.20	-14.90	PK
Horizontal	4434.14	59.89	-20.73	39.16	54.00	-14.84	AV
Horizontal	10360.02	60.60	-9.36	51.24	68.20	-16.96	PK
Horizontal	10360.02	49.04	-9.36	39.68	54.00	-14.32	AV
Horizontal	15540.05	63.01	-7.84	55.17	74.00	-18.83	PK
Horizontal	15540.05	49.52	-7.84	41.68	54.00	-12.32	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.17	74.81	-20.42	54.40	74.00	-19.60	PK
Vertical	4592.17	59.47	-20.42	39.05	54.00	-14.95	AV
Vertical	10400.18	63.63	-9.30	54.33	68.20	-13.87	PK
Vertical	10400.18	49.75	-9.30	40.45	54.00	-13.55	AV
Vertical	15600.10	60.81	-7.82	52.99	74.00	-21.01	PK
Vertical	15600.10	49.76	-7.82	41.94	54.00	-12.06	AV
Horizontal	4592.02	73.83	-20.42	53.42	74.00	-20.58	PK
Horizontal	4592.02	59.59	-20.42	39.17	54.00	-14.83	AV
Horizontal	10400.10	61.06	-9.30	51.76	68.20	-16.44	PK
Horizontal	10400.10	49.50	-9.30	40.20	54.00	-13.80	AV
Horizontal	15600.14	61.85	-7.82	54.03	74.00	-19.97	PK
Horizontal	15600.14	49.45	-7.82	41.63	54.00	-12.37	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.08	70.70	-20.12	50.58	74.00	-23.42	PK
Vertical	4739.08	59.65	-20.12	39.53	54.00	-14.47	AV
Vertical	10480.09	62.55	-9.18	53.37	68.20	-14.83	PK
Vertical	10480.09	49.49	-9.18	40.31	54.00	-13.69	AV
Vertical	15720.05	63.55	-7.78	55.77	74.00	-18.23	PK
Vertical	15720.05	49.74	-7.78	41.96	54.00	-12.04	AV
Horizontal	4739.04	71.13	-20.12	51.01	74.00	-22.99	PK
Horizontal	4739.04	59.53	-20.12	39.41	54.00	-14.59	AV
Horizontal	10480.06	63.46	-9.18	54.28	68.20	-13.92	PK
Horizontal	10480.06	49.89	-9.18	40.71	54.00	-13.29	AV
Horizontal	15720.17	61.29	-7.78	53.51	74.00	-20.49	PK
Horizontal	15720.17	49.87	-7.78	42.09	54.00	-11.91	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)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.14	73.84	-20.73	53.11	68.20	-15.09	PK
Vertical	4434.14	59.27	-20.73	38.53	54.00	-15.47	AV
Vertical	10380.05	62.46	-9.33	53.13	68.20	-15.07	PK
Vertical	10380.05	49.41	-9.33	40.08	54.00	-13.92	AV
Vertical	15570.06	64.21	-7.83	56.38	74.00	-17.62	PK
Vertical	15570.06	49.82	-7.83	41.99	54.00	-12.01	AV
Horizontal	4434.20	70.93	-20.73	50.20	74.00	-23.80	PK
Horizontal	4434.20	59.24	-20.73	38.50	54.00	-15.50	AV
Horizontal	10380.16	61.61	-9.33	52.28	68.20	-15.92	PK
Horizontal	10380.16	49.66	-9.33	40.33	54.00	-13.67	AV
Horizontal	15570.18	60.21	-7.83	52.38	74.00	-21.62	PK
Horizontal	15570.18	49.70	-7.83	41.87	54.00	-12.13	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.02	70.53	-20.12	50.41	68.20	-17.79	PK
Vertical	4739.02	59.51	-20.12	39.38	54.00	-14.62	AV
Vertical	10460.02	62.39	-9.21	53.18	68.20	-15.02	PK
Vertical	10460.02	50.00	-9.21	40.79	54.00	-13.21	AV
Vertical	15690.20	62.87	-7.79	55.08	74.00	-18.92	PK
Vertical	15690.20	49.78	-7.79	41.99	54.00	-12.01	AV
Horizontal	4739.02	73.65	-20.12	53.53	68.20	-14.67	PK
Horizontal	4739.02	59.37	-20.12	39.25	54.00	-14.75	AV
Horizontal	10460.03	63.80	-9.21	54.59	68.20	-13.61	PK
Horizontal	10460.03	49.51	-9.21	40.30	54.00	-13.70	AV
Horizontal	15690.19	64.21	-7.79	56.42	74.00	-17.58	PK
Horizontal	15690.19	49.41	-7.79	41.62	54.00	-12.38	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ac-HT20
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.06	72.94	-20.73	52.20	68.20	-16.00	PK
Vertical	4434.06	59.70	-20.73	38.97	54.00	-15.03	AV
Vertical	10360.10	63.31	-9.36	53.95	68.20	-14.25	PK
Vertical	10360.10	49.04	-9.36	39.68	54.00	-14.32	AV
Vertical	15540.15	64.39	-7.84	56.55	74.00	-17.45	PK
Vertical	15540.15	49.06	-7.84	41.22	54.00	-12.78	AV
Horizontal	4434.07	74.95	-20.73	54.22	68.20	-13.98	PK
Horizontal	4434.07	59.61	-20.73	38.88	54.00	-15.12	AV
Horizontal	10360.17	61.22	-9.36	51.86	68.20	-16.34	PK
Horizontal	10360.17	49.14	-9.36	39.78	54.00	-14.22	AV
Horizontal	15540.06	63.18	-7.84	55.34	74.00	-18.66	PK
Horizontal	15540.06	49.23	-7.84	41.39	54.00	-12.61	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.03	73.69	-20.42	53.28	74.00	-20.72	PK
Vertical	4592.03	59.39	-20.42	38.98	54.00	-15.02	AV
Vertical	10400.16	61.97	-9.30	52.67	68.20	-15.53	PK
Vertical	10400.16	49.16	-9.30	39.86	54.00	-14.14	AV
Vertical	15600.16	63.25	-7.82	55.43	74.00	-18.57	PK
Vertical	15600.16	49.17	-7.82	41.35	54.00	-12.65	AV
Horizontal	4592.15	73.15	-20.42	52.74	74.00	-21.26	PK
Horizontal	4592.15	59.35	-20.42	38.94	54.00	-15.06	AV
Horizontal	10400.18	62.44	-9.30	53.14	68.20	-15.06	PK
Horizontal	10400.18	49.22	-9.30	39.92	54.00	-14.08	AV
Horizontal	15600.17	63.03	-7.82	55.21	74.00	-18.79	PK
Horizontal	15600.17	49.97	-7.82	42.15	54.00	-11.85	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.19	73.12	-20.12	52.99	74.00	-21.01	PK
Vertical	4739.19	59.17	-20.12	39.05	54.00	-14.95	AV
Vertical	10480.12	61.68	-9.18	52.50	68.20	-15.70	PK
Vertical	10480.12	49.90	-9.18	40.72	54.00	-13.28	AV
Vertical	15720.15	60.48	-7.78	52.70	74.00	-21.30	PK
Vertical	15720.15	49.17	-7.78	41.39	54.00	-12.61	AV
Horizontal	4739.15	71.17	-20.12	51.05	74.00	-22.95	PK
Horizontal	4739.15	59.61	-20.12	39.49	54.00	-14.51	AV
Horizontal	10480.06	62.94	-9.18	53.76	68.20	-14.44	PK
Horizontal	10480.06	49.30	-9.18	40.12	54.00	-13.88	AV
Horizontal	15720.19	61.38	-7.78	53.60	74.00	-20.40	PK
Horizontal	15720.19	49.62	-7.78	41.84	54.00	-12.16	AV

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

Test Mode:	TX(5.1G) - 802.11ac-HT40
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.14	70.83	-20.73	50.10	68.20	-18.10	PK
Vertical	4434.14	59.11	-20.73	38.38	54.00	-15.62	AV
Vertical	10380.08	62.96	-9.33	53.63	68.20	-14.57	PK
Vertical	10380.08	49.14	-9.33	39.81	54.00	-14.19	AV
Vertical	15570.10	62.78	-7.83	54.95	74.00	-19.05	PK
Vertical	15570.10	49.85	-7.83	42.02	54.00	-11.98	AV
Horizontal	4434.12	73.57	-20.73	52.84	74.00	-21.16	PK
Horizontal	4434.12	59.04	-20.73	38.31	54.00	-15.69	AV
Horizontal	10380.00	62.24	-9.33	52.91	68.20	-15.29	PK
Horizontal	10380.00	49.68	-9.33	40.35	54.00	-13.65	AV
Horizontal	15570.06	62.95	-7.83	55.12	74.00	-18.88	PK
Horizontal	15570.06	49.70	-7.83	41.87	54.00	-12.13	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.07	74.56	-20.12	54.44	68.20	-13.76	PK
Vertical	4739.07	59.10	-20.12	38.98	54.00	-15.02	AV
Vertical	10460.09	63.99	-9.21	54.78	68.20	-13.42	PK
Vertical	10460.09	49.12	-9.21	39.91	54.00	-14.09	AV
Vertical	15690.19	62.19	-7.79	54.40	74.00	-19.60	PK
Vertical	15690.19	49.93	-7.79	42.14	54.00	-11.86	AV
Horizontal	4739.09	74.62	-20.12	54.50	68.20	-13.70	PK
Horizontal	4739.09	59.68	-20.12	39.56	54.00	-14.44	AV
Horizontal	10460.05	61.82	-9.21	52.61	68.20	-15.59	PK
Horizontal	10460.05	49.06	-9.21	39.85	54.00	-14.15	AV
Horizontal	15690.18	60.83	-7.79	53.04	74.00	-20.96	PK
Horizontal	15690.18	49.04	-7.79	41.25	54.00	-12.75	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-HT80
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5210 MHz)-Above 1G							
Vertical	4434.08	74.47	-20.73	53.74	68.20	-14.46	PK
Vertical	4434.08	59.34	-20.73	38.61	54.00	-15.39	AV
Vertical	10420.13	61.10	-9.27	51.83	68.20	-16.37	PK
Vertical	10420.13	49.73	-9.27	40.46	54.00	-13.54	AV
Vertical	15630.05	64.01	-7.81	56.20	74.00	-17.80	PK
Vertical	15630.05	49.22	-7.81	41.41	54.00	-12.59	AV
Horizontal	4434.18	73.62	-20.73	52.88	68.20	-15.32	PK
Horizontal	4434.18	49.26	-20.73	28.52	54.00	-25.48	AV
Horizontal	10420.14	42.26	9.27	51.53	68.20	-16.67	PK
Horizontal	10420.14	29.78	9.27	39.05	54.00	-14.95	AV
Horizontal	15630.09	60.19	-7.81	52.38	74.00	-21.62	PK
Horizontal	15630.09	49.69	-7.81	41.88	54.00	-12.12	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(5.3G) - 802.11a
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G							
Vertical	4434.16	72.33	-20.73	51.60	68.20	-16.60	PK
Vertical	4434.16	59.44	-20.73	38.71	54.00	-15.29	AV
Vertical	10520.18	60.89	-9.12	51.77	68.20	-16.43	PK
Vertical	10520.18	49.03	-9.12	39.91	54.00	-14.09	AV
Vertical	15780.10	61.96	-7.77	54.19	74.00	-19.81	PK
Vertical	15780.10	49.15	-7.77	41.38	54.00	-12.62	AV
Horizontal	4434.09	72.05	-20.73	51.32	68.20	-16.88	PK
Horizontal	4434.09	59.62	-20.73	38.89	54.00	-15.11	AV
Horizontal	10520.09	64.85	-9.12	55.73	68.20	-12.47	PK
Horizontal	10520.09	49.51	-9.12	40.39	54.00	-13.61	AV
Horizontal	15780.09	62.87	-7.77	55.10	74.00	-18.90	PK
Horizontal	15780.09	49.87	-7.77	42.10	54.00	-11.90	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.14	74.29	-20.42	53.88	74.00	-20.12	PK
Vertical	4592.14	59.66	-20.42	39.24	54.00	-14.76	AV
Vertical	10560.12	64.06	-9.06	55.00	68.20	-13.20	PK
Vertical	10560.12	49.05	-9.06	39.99	54.00	-14.01	AV
Vertical	15840.17	60.76	-7.75	53.01	74.00	-20.99	PK
Vertical	15840.17	49.70	-7.75	41.95	54.00	-12.05	AV
Horizontal	4592.15	73.78	-20.42	53.36	74.00	-20.64	PK
Horizontal	4592.15	59.98	-20.42	39.56	54.00	-14.44	AV
Horizontal	10560.00	64.17	-9.06	55.11	68.20	-13.09	PK
Horizontal	10560.00	49.46	-9.06	40.40	54.00	-13.60	AV
Horizontal	15840.15	64.36	-7.75	56.61	74.00	-17.39	PK
Horizontal	15840.15	49.73	-7.75	41.98	54.00	-12.02	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.20	73.65	-20.12	53.53	74.00	-20.47	PK
Vertical	4739.20	59.19	-20.12	39.06	54.00	-14.94	AV
Vertical	10640.15	63.78	-8.94	54.84	68.20	-13.36	PK
Vertical	10640.15	49.72	-8.94	40.78	54.00	-13.22	AV
Vertical	15960.04	64.00	-7.71	56.29	74.00	-17.71	PK
Vertical	15960.04	49.48	-7.71	41.77	54.00	-12.23	AV
Horizontal	4739.06	72.23	-20.12	52.11	74.00	-21.89	PK
Horizontal	4739.06	59.90	-20.12	39.78	54.00	-14.22	AV
Horizontal	10640.09	61.26	-8.94	52.32	68.20	-15.88	PK
Horizontal	10640.09	49.33	-8.94	40.39	54.00	-13.61	AV
Horizontal	15960.02	61.58	-7.71	53.87	74.00	-20.13	PK
Horizontal	15960.02	49.33	-7.71	41.62	54.00	-12.38	AV

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

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

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

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

The worst case is Antenna A.

Test Mode:	TX(5.3G) - 802.11n-HT20
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G							
Vertical	4434.10	70.43	-20.73	49.70	68.20	-18.50	PK
Vertical	4434.10	59.96	-20.73	39.23	54.00	-14.77	AV
Vertical	10520.16	62.92	-9.12	53.80	68.20	-14.40	PK
Vertical	10520.16	49.34	-9.12	40.22	54.00	-13.78	AV
Vertical	15780.13	61.32	-7.77	53.55	74.00	-20.45	PK
Vertical	15780.13	49.09	-7.77	41.32	54.00	-12.68	AV
Horizontal	4434.14	70.50	-20.73	49.77	68.20	-18.43	PK
Horizontal	4434.14	59.33	-20.73	38.60	54.00	-15.40	AV
Horizontal	10520.08	61.28	-9.12	52.16	68.20	-16.04	PK
Horizontal	10520.08	49.55	-9.12	40.43	54.00	-13.57	AV
Horizontal	15780.02	63.14	-7.77	55.37	74.00	-18.63	PK
Horizontal	15780.02	49.38	-7.77	41.61	54.00	-12.39	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.14	73.04	-20.42	52.63	74.00	-21.37	PK
Vertical	4592.14	59.69	-20.42	39.27	54.00	-14.73	AV
Vertical	10560.06	60.05	-9.06	50.99	68.20	-17.21	PK
Vertical	10560.06	49.82	-9.06	40.76	54.00	-13.24	AV
Vertical	15840.14	60.29	-7.75	52.54	74.00	-21.46	PK
Vertical	15840.14	49.12	-7.75	41.37	54.00	-12.63	AV
Horizontal	4592.15	71.20	-20.42	50.79	74.00	-23.21	PK
Horizontal	4592.15	59.62	-20.42	39.21	54.00	-14.79	AV
Horizontal	10560.02	64.75	-9.06	55.69	68.20	-12.51	PK
Horizontal	10560.02	49.07	-9.06	40.01	54.00	-13.99	AV
Horizontal	15840.06	61.40	-7.75	53.65	74.00	-20.35	PK
Horizontal	15840.06	49.26	-7.75	41.51	54.00	-12.49	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.18	71.03	-20.12	50.91	74.00	-23.09	PK
Vertical	4739.18	59.44	-20.12	39.32	54.00	-14.68	AV
Vertical	10640.09	63.17	-8.94	54.23	68.20	-13.97	PK
Vertical	10640.09	49.90	-8.94	40.96	54.00	-13.04	AV
Vertical	15960.10	64.03	-7.71	56.32	74.00	-17.68	PK
Vertical	15960.10	49.86	-7.71	42.15	54.00	-11.85	AV
Horizontal	4739.12	73.03	-20.12	52.91	74.00	-21.09	PK
Horizontal	4739.12	59.61	-20.12	39.49	54.00	-14.51	AV
Horizontal	10640.02	60.36	-8.94	51.42	68.20	-16.78	PK
Horizontal	10640.02	49.29	-8.94	40.35	54.00	-13.65	AV
Horizontal	15960.15	63.79	-7.71	56.08	74.00	-17.92	PK
Horizontal	15960.15	49.35	-7.71	41.64	54.00	-12.36	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(5.3G) - 802.11n-HT40
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5270 MHz)-Above 1G							
Vertical	4434.08	72.86	-20.73	52.13	68.20	-16.07	PK
Vertical	4434.08	59.01	-20.73	38.27	54.00	-15.73	AV
Vertical	10540.00	63.11	-9.09	54.02	68.20	-14.18	PK
Vertical	10540.00	49.46	-9.09	40.37	54.00	-13.63	AV
Vertical	15810.04	61.55	-7.76	53.79	74.00	-20.21	PK
Vertical	15810.04	49.94	-7.76	42.18	54.00	-11.82	AV
Horizontal	4434.08	74.56	-20.73	53.83	74.00	-20.17	PK
Horizontal	4434.08	59.10	-20.73	38.37	54.00	-15.63	AV
Horizontal	10540.04	62.19	-9.09	53.10	68.20	-15.10	PK
Horizontal	10540.04	49.56	-9.09	40.47	54.00	-13.53	AV
Horizontal	15810.06	61.20	-7.76	53.44	74.00	-20.56	PK
Horizontal	15810.06	49.26	-7.76	41.50	54.00	-12.50	AV
High Channel (5310 MHz)-Above 1G							
Vertical	4739.12	71.76	-20.12	51.63	68.20	-16.57	PK
Vertical	4739.12	59.11	-20.12	38.99	54.00	-15.01	AV
Vertical	10620.11	60.45	-8.97	51.48	68.20	-16.72	PK
Vertical	10620.11	49.69	-8.97	40.72	54.00	-13.28	AV
Vertical	15930.13	64.89	-7.72	57.17	74.00	-16.83	PK
Vertical	15930.13	49.01	-7.72	41.29	54.00	-12.71	AV
Horizontal	4739.20	70.66	-20.12	50.54	68.20	-17.66	PK
Horizontal	4739.20	59.47	-20.12	39.35	54.00	-14.65	AV
Horizontal	10620.20	61.16	-8.97	52.19	68.20	-16.01	PK
Horizontal	10620.20	49.46	-8.97	40.49	54.00	-13.51	AV
Horizontal	15930.10	62.33	-7.72	54.61	74.00	-19.39	PK
Horizontal	15930.10	49.95	-7.72	42.23	54.00	-11.77	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(5.3G) - 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 (5260 MHz)-Above 1G							
Vertical	4434.00	71.04	-20.73	50.31	68.20	-17.89	PK
Vertical	4434.00	59.61	-20.73	38.88	54.00	-15.12	AV
Vertical	10520.14	61.20	-9.12	52.08	68.20	-16.12	PK
Vertical	10520.14	49.99	-9.12	40.87	54.00	-13.13	AV
Vertical	15780.16	63.34	-7.77	55.57	74.00	-18.43	PK
Vertical	15780.16	49.17	-7.77	41.40	54.00	-12.60	AV
Horizontal	4434.02	72.14	-20.73	51.41	68.20	-16.79	PK
Horizontal	4434.02	59.23	-20.73	38.50	54.00	-15.50	AV
Horizontal	10520.08	62.27	-9.12	53.15	68.20	-15.05	PK
Horizontal	10520.08	49.51	-9.12	40.39	54.00	-13.61	AV
Horizontal	15780.12	62.10	-7.77	54.33	74.00	-19.67	PK
Horizontal	15780.12	49.98	-7.77	42.21	54.00	-11.79	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.14	72.26	-20.42	51.85	74.00	-22.15	PK
Vertical	4592.14	59.84	-20.42	39.42	54.00	-14.58	AV
Vertical	10560.17	64.26	-9.06	55.20	68.20	-13.00	PK
Vertical	10560.17	49.99	-9.06	40.93	54.00	-13.07	AV
Vertical	15840.02	62.55	-7.75	54.80	74.00	-19.20	PK
Vertical	15840.02	49.75	-7.75	42.00	54.00	-12.00	AV
Horizontal	4592.14	71.54	-20.42	51.13	74.00	-22.87	PK
Horizontal	4592.14	59.37	-20.42	38.96	54.00	-15.04	AV
Horizontal	10560.19	63.53	-9.06	54.47	68.20	-13.73	PK
Horizontal	10560.19	49.30	-9.06	40.24	54.00	-13.76	AV
Horizontal	15840.15	63.49	-7.75	55.74	74.00	-18.26	PK
Horizontal	15840.15	49.82	-7.75	42.07	54.00	-11.93	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.02	70.10	-20.12	49.98	74.00	-24.02	PK
Vertical	4739.02	59.55	-20.12	39.43	54.00	-14.57	AV
Vertical	10640.16	64.85	-8.94	55.91	68.20	-12.29	PK
Vertical	10640.16	49.81	-8.94	40.87	54.00	-13.13	AV
Vertical	15960.04	63.67	-7.71	55.96	74.00	-18.04	PK
Vertical	15960.04	49.12	-7.71	41.41	54.00	-12.59	AV
Horizontal	4739.11	71.49	-20.12	51.37	74.00	-22.63	PK
Horizontal	4739.11	59.25	-20.12	39.12	54.00	-14.88	AV
Horizontal	10640.08	62.44	-8.94	53.50	68.20	-14.70	PK
Horizontal	10640.08	49.69	-8.94	40.75	54.00	-13.25	AV
Horizontal	15960.11	63.36	-7.71	55.65	74.00	-18.35	PK
Horizontal	15960.11	49.02	-7.71	41.31	54.00	-12.69	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(5.3G) - 802.11ac-HT40
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5270 MHz)-Above 1G							
Vertical	4434.01	73.42	-20.73	52.69	68.20	-15.51	PK
Vertical	4434.01	59.71	-20.73	38.98	54.00	-15.02	AV
Vertical	10540.18	61.83	-9.09	52.74	68.20	-15.46	PK
Vertical	10540.18	49.69	-9.09	40.60	54.00	-13.40	AV
Vertical	15810.01	63.84	-7.76	56.08	74.00	-17.92	PK
Vertical	15810.01	49.76	-7.76	42.00	54.00	-12.00	AV
Horizontal	4434.14	71.18	-20.73	50.45	74.00	-23.55	PK
Horizontal	4434.14	59.09	-20.73	38.35	54.00	-15.65	AV
Horizontal	10540.12	61.96	-9.09	52.87	68.20	-15.33	PK
Horizontal	10540.12	49.01	-9.09	39.92	54.00	-14.08	AV
Horizontal	15810.18	60.66	-7.76	52.90	74.00	-21.10	PK
Horizontal	15810.18	49.99	-7.76	42.23	54.00	-11.77	AV
High Channel (5310 MHz)-Above 1G							
Vertical	4739.08	73.59	-20.12	53.46	68.20	-14.74	PK
Vertical	4739.08	59.10	-20.12	38.98	54.00	-15.02	AV
Vertical	10620.05	64.04	-8.97	55.07	68.20	-13.13	PK
Vertical	10620.05	49.68	-8.97	40.71	54.00	-13.29	AV
Vertical	15930.14	64.53	-7.72	56.81	74.00	-17.19	PK
Vertical	15930.14	49.58	-7.72	41.86	54.00	-12.14	AV
Horizontal	4739.13	70.40	-20.12	50.28	68.20	-17.92	PK
Horizontal	4739.13	59.68	-20.12	39.55	54.00	-14.45	AV
Horizontal	10620.13	61.23	-8.97	52.26	68.20	-15.94	PK
Horizontal	10620.13	49.99	-8.97	41.02	54.00	-12.98	AV
Horizontal	15930.15	61.55	-7.72	53.83	74.00	-20.17	PK
Horizontal	15930.15	49.83	-7.72	42.11	54.00	-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(5.3G) - 802.11ac-HT80
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5290 MHz)-Above 1G							
Vertical	4434.09	70.17	-20.73	49.44	68.20	-18.76	PK
Vertical	4434.09	59.99	-20.73	39.26	54.00	-14.74	AV
Vertical	10580.06	64.15	-9.03	55.12	68.20	-13.08	PK
Vertical	10580.06	49.88	-9.03	40.85	54.00	-13.15	AV
Vertical	15870.14	64.57	-7.74	56.83	74.00	-17.17	PK
Vertical	15870.14	49.81	-7.74	42.07	54.00	-11.93	AV
Horizontal	4434.20	72.85	-20.73	52.12	68.20	-16.08	PK
Horizontal	4434.20	59.29	-20.73	38.56	54.00	-15.44	AV
Horizontal	10580.03	62.78	-9.03	53.75	68.20	-14.45	PK
Horizontal	10580.03	49.90	-9.03	40.87	54.00	-13.13	AV
Horizontal	15870.05	63.05	-7.74	55.31	74.00	-18.69	PK
Horizontal	15870.05	49.83	-7.74	42.09	54.00	-11.91	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(5.6G) - 802.11a
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G							
Vertical	4434.08	73.96	-20.73	53.23	68.20	-14.97	PK
Vertical	4434.08	59.14	-20.73	38.41	54.00	-15.59	AV
Vertical	11000.06	61.56	-8.40	53.16	68.20	-15.04	PK
Vertical	11000.06	49.42	-8.40	41.02	54.00	-12.98	AV
Vertical	16500.08	60.97	-6.09	54.88	74.00	-19.12	PK
Vertical	16500.08	49.46	-6.09	43.37	54.00	-10.63	AV
Horizontal	4434.15	71.97	-20.73	51.24	68.20	-16.96	PK
Horizontal	4434.15	59.29	-20.73	38.56	54.00	-15.44	AV
Horizontal	11000.10	63.97	-8.40	55.57	68.20	-12.63	PK
Horizontal	11000.10	49.37	-8.40	40.97	54.00	-13.03	AV
Horizontal	16500.07	60.80	-6.09	54.71	74.00	-19.29	PK
Horizontal	16500.07	49.58	-6.09	43.49	54.00	-10.51	AV
middle Channel (5580 MHz)-Above 1G							
Vertical	4592.20	72.93	-20.42	52.51	74.00	-21.49	PK
Vertical	4592.20	59.70	-20.42	39.28	54.00	-14.72	AV
Vertical	11160.06	62.65	-8.53	54.12	68.20	-14.08	PK
Vertical	11160.06	49.44	-8.53	40.91	54.00	-13.09	AV
Vertical	16740.04	63.59	-5.31	58.28	74.00	-15.72	PK
Vertical	16740.04	49.60	-5.31	44.29	54.00	-9.71	AV
Horizontal	4592.03	71.84	-20.42	51.42	74.00	-22.58	PK
Horizontal	4592.03	59.96	-20.42	39.54	54.00	-14.46	AV
Horizontal	11160.09	62.52	-8.53	53.99	68.20	-14.21	PK
Horizontal	11160.09	49.05	-8.53	40.52	54.00	-13.48	AV
Horizontal	16740.14	63.83	-5.31	58.52	74.00	-15.48	PK
Horizontal	16740.14	49.26	-5.31	43.95	54.00	-10.05	AV
High Channel (5700 MHz)-Above 1G							
Vertical	4739.05	72.43	-20.12	52.30	74.00	-21.70	PK
Vertical	4739.05	59.85	-20.12	39.73	54.00	-14.27	AV
Vertical	11400.02	60.10	-8.72	51.38	68.20	-16.82	PK
Vertical	11400.02	49.74	-8.72	41.02	54.00	-12.98	AV
Vertical	17100.07	61.28	-3.92	57.36	74.00	-16.64	PK
Vertical	17100.07	49.86	-3.92	45.94	54.00	-8.06	AV
Horizontal	4739.18	74.75	-20.12	54.63	74.00	-19.37	PK
Horizontal	4739.18	59.72	-20.12	39.60	54.00	-14.40	AV
Horizontal	11400.06	60.93	-8.72	52.21	68.20	-15.99	PK
Horizontal	11400.06	49.09	-8.72	40.37	54.00	-13.63	AV
Horizontal	17100.17	61.65	-3.92	57.73	74.00	-16.27	PK
Horizontal	17100.17	49.78	-3.92	45.86	54.00	-8.14	AV

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

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

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

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

The worst case is Antenna A.

Test Mode:	TX(5.6G) - 802.11n-HT20
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G							
Vertical	4434.13	73.53	-20.73	52.80	68.20	-15.40	PK
Vertical	4434.13	59.32	-20.73	38.59	54.00	-15.41	AV
Vertical	11000.10	60.02	-8.40	51.62	68.20	-16.58	PK
Vertical	11000.10	49.20	-8.40	40.80	54.00	-13.20	AV
Vertical	16500.04	64.52	-6.09	58.43	74.00	-15.57	PK
Vertical	16500.04	49.23	-6.09	43.14	54.00	-10.86	AV
Horizontal	4434.05	72.00	-20.73	51.27	68.20	-16.93	PK
Horizontal	4434.05	59.67	-20.73	38.94	54.00	-15.06	AV
Horizontal	11000.11	60.77	-8.40	52.37	68.20	-15.83	PK
Horizontal	11000.11	49.63	-8.40	41.23	54.00	-12.77	AV
Horizontal	16500.12	61.62	-6.09	55.53	74.00	-18.47	PK
Horizontal	16500.12	49.11	-6.09	43.02	54.00	-10.98	AV
middle Channel (5580 MHz)-Above 1G							
Vertical	4592.17	70.29	-20.42	49.87	74.00	-24.13	PK
Vertical	4592.17	59.34	-20.42	38.93	54.00	-15.07	AV
Vertical	11160.05	60.14	-8.53	51.61	68.20	-16.59	PK
Vertical	11160.05	49.81	-8.53	41.28	54.00	-12.72	AV
Vertical	16740.09	64.71	-5.31	59.40	74.00	-14.60	PK
Vertical	16740.09	49.68	-5.31	44.37	54.00	-9.63	AV
Horizontal	4592.05	71.71	-20.42	51.30	74.00	-22.70	PK
Horizontal	4592.05	59.32	-20.42	38.90	54.00	-15.10	AV
Horizontal	11160.01	63.70	-8.53	55.17	68.20	-13.03	PK
Horizontal	11160.01	49.64	-8.53	41.11	54.00	-12.89	AV
Horizontal	16740.12	64.95	-5.31	59.64	74.00	-14.36	PK
Horizontal	16740.12	49.43	-5.31	44.12	54.00	-9.88	AV
High Channel (5700 MHz)-Above 1G							
Vertical	4739.10	72.36	-20.12	52.24	74.00	-21.76	PK
Vertical	4739.10	59.07	-20.12	38.95	54.00	-15.05	AV
Vertical	11400.00	64.93	-8.72	56.21	68.20	-11.99	PK
Vertical	11400.00	49.51	-8.72	40.79	54.00	-13.21	AV
Vertical	17100.12	60.25	-3.92	56.33	74.00	-17.67	PK
Vertical	17100.12	49.22	-3.92	45.30	54.00	-8.70	AV
Horizontal	4739.15	72.54	-20.12	52.42	74.00	-21.58	PK
Horizontal	4739.15	59.46	-20.12	39.34	54.00	-14.66	AV
Horizontal	11400.16	61.16	-8.72	52.44	68.20	-15.76	PK
Horizontal	11400.16	49.30	-8.72	40.58	54.00	-13.42	AV
Horizontal	17100.06	61.18	-3.92	57.26	74.00	-16.74	PK
Horizontal	17100.06	49.73	-3.92	45.81	54.00	-8.19	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(5.6G) - 802.11n-HT40
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5510 MHz)-Above 1G							
Vertical	4434.04	62.84	-20.73	42.11	68.20	-26.09	PK
Vertical	4434.04	43.09	-20.73	22.36	54.00	-31.64	AV
Vertical	11020.15	61.04	-8.42	52.62	68.20	-15.58	PK
Vertical	11020.15	43.21	-8.42	34.79	54.00	-19.21	AV
Vertical	16530.01	61.45	-5.99	55.46	74.00	-18.54	PK
Vertical	16530.01	43.95	-5.99	37.96	54.00	-16.04	AV
Horizontal	4434.09	63.11	-20.73	42.38	74.00	-31.62	PK
Horizontal	4434.09	43.16	-20.73	22.43	54.00	-31.57	AV
Horizontal	11020.19	52.22	-8.42	43.80	68.20	-24.40	PK
Horizontal	11020.19	42.33	-8.42	33.91	54.00	-20.09	AV
Horizontal	16530.19	50.75	-5.99	44.76	74.00	-29.24	PK
Horizontal	16530.19	42.02	-5.99	36.03	54.00	-17.97	AV
middle Channel (5550 MHz)-Above 1G							
Vertical	4592.11	61.10	-20.42	40.69	74.00	-33.31	PK
Vertical	4592.11	43.28	-20.42	22.86	54.00	-31.14	AV
Vertical	11100.04	60.87	-8.40	52.47	68.20	-15.73	PK
Vertical	11100.04	43.27	-8.40	34.87	54.00	-19.13	AV
Vertical	16650.05	63.97	-5.60	58.37	74.00	-15.63	PK
Vertical	16650.05	43.80	-5.60	38.20	54.00	-15.80	AV
Horizontal	4592.09	64.70	-20.42	44.28	74.00	-29.72	PK
Horizontal	4592.09	43.88	-20.42	23.46	54.00	-30.54	AV
Horizontal	11100.01	54.56	-8.40	46.16	68.20	-22.04	PK
Horizontal	11100.01	42.12	-8.40	33.72	54.00	-20.28	AV
Horizontal	16650.09	53.57	-5.60	47.97	74.00	-26.03	PK
Horizontal	16650.09	44.11	-5.60	38.51	54.00	-15.49	AV
High Channel (5670 MHz)-Above 1G							
Vertical	4739.16	61.61	-20.12	41.49	68.20	-26.71	PK
Vertical	4739.16	43.58	-20.12	23.45	54.00	-30.55	AV
Vertical	11340.20	63.62	-8.67	54.95	68.20	-13.25	PK
Vertical	11340.20	43.87	-8.67	35.20	54.00	-18.80	AV
Vertical	17010.17	60.71	-4.41	56.30	74.00	-17.70	PK
Vertical	17010.17	43.40	-4.41	38.99	54.00	-15.01	AV
Horizontal	4739.07	62.93	-20.12	42.81	68.20	-25.39	PK
Horizontal	4739.07	43.93	-20.12	23.81	54.00	-30.19	AV
Horizontal	11340.07	51.25	-8.67	42.58	68.20	-25.62	PK
Horizontal	11340.07	43.37	-8.67	34.70	54.00	-19.30	AV
Horizontal	17010.15	51.00	-4.41	46.59	74.00	-27.41	PK
Horizontal	17010.15	43.29	-4.41	38.88	54.00	-15.12	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(5.6G) - 802.11ac-HT20
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G							
Vertical	4434.00	71.05	-20.73	50.32	68.20	-17.88	PK
Vertical	4434.00	59.68	-20.73	38.95	54.00	-15.05	AV
Vertical	11000.10	60.45	-8.40	52.05	68.20	-16.15	PK
Vertical	11000.10	49.91	-8.40	41.51	54.00	-12.49	AV
Vertical	16500.11	60.98	-6.09	54.89	74.00	-19.11	PK
Vertical	16500.11	49.28	-6.09	43.19	54.00	-10.81	AV
Horizontal	4434.18	74.31	-20.73	53.58	68.20	-14.62	PK
Horizontal	4434.18	59.05	-20.73	38.32	54.00	-15.68	AV
Horizontal	11000.10	64.21	-8.40	55.81	68.20	-12.39	PK
Horizontal	11000.10	49.04	-8.40	40.64	54.00	-13.36	AV
Horizontal	16500.04	64.48	-6.09	58.39	74.00	-15.61	PK
Horizontal	16500.04	49.66	-6.09	43.57	54.00	-10.43	AV
middle Channel (5580 MHz)-Above 1G							
Vertical	4592.09	74.19	-20.42	53.78	74.00	-20.22	PK
Vertical	4592.09	59.10	-20.42	38.68	54.00	-15.32	AV
Vertical	11160.06	63.47	-8.53	54.94	68.20	-13.26	PK
Vertical	11160.06	49.53	-8.53	41.00	54.00	-13.00	AV
Vertical	16740.06	60.56	-5.31	55.25	74.00	-18.75	PK
Vertical	16740.06	49.09	-5.31	43.78	54.00	-10.22	AV
Horizontal	4592.04	73.07	-20.42	52.66	74.00	-21.34	PK
Horizontal	4592.04	59.87	-20.42	39.46	54.00	-14.54	AV
Horizontal	11160.17	61.61	-8.53	53.08	68.20	-15.12	PK
Horizontal	11160.17	49.76	-8.53	41.23	54.00	-12.77	AV
Horizontal	16740.07	60.20	-5.31	54.89	74.00	-19.11	PK
Horizontal	16740.07	49.60	-5.31	44.29	54.00	-9.71	AV
High Channel (5700 MHz)-Above 1G							
Vertical	4739.20	70.49	-20.12	50.37	74.00	-23.63	PK
Vertical	4739.20	59.35	-20.12	39.23	54.00	-14.77	AV
Vertical	11400.09	62.63	-8.72	53.91	68.20	-14.29	PK
Vertical	11400.09	49.53	-8.72	40.81	54.00	-13.19	AV
Vertical	17100.16	62.00	-3.92	58.08	74.00	-15.92	PK
Vertical	17100.16	49.49	-3.92	45.57	54.00	-8.43	AV
Horizontal	4739.02	71.59	-20.12	51.47	74.00	-22.53	PK
Horizontal	4739.02	59.52	-20.12	39.40	54.00	-14.60	AV
Horizontal	11400.13	62.99	-8.72	54.27	68.20	-13.93	PK
Horizontal	11400.13	49.29	-8.72	40.57	54.00	-13.43	AV
Horizontal	17100.12	60.11	-3.92	56.19	74.00	-17.81	PK
Horizontal	17100.12	49.83	-3.92	45.91	54.00	-8.09	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode:	TX(5.6G) - 802.11ac-HT40
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5510 MHz)-Above 1G							
Vertical	4434.11	62.69	-20.73	41.96	68.20	-26.24	PK
Vertical	4434.11	43.83	-20.73	23.10	54.00	-30.90	AV
Vertical	11020.06	61.29	-8.42	52.87	68.20	-15.33	PK
Vertical	11020.06	43.72	-8.42	35.30	54.00	-18.70	AV
Vertical	16530.17	62.59	-5.99	56.60	74.00	-17.40	PK
Vertical	16530.17	43.40	-5.99	37.41	54.00	-16.59	AV
Horizontal	4434.04	60.40	-20.73	39.67	74.00	-34.33	PK
Horizontal	4434.04	43.12	-20.73	22.39	54.00	-31.61	AV
Horizontal	11020.04	53.87	-8.42	45.45	68.20	-22.75	PK
Horizontal	11020.04	41.18	-8.42	32.76	54.00	-21.24	AV
Horizontal	16530.00	51.82	-5.99	45.83	74.00	-28.17	PK
Horizontal	16530.00	41.03	-5.99	35.04	54.00	-18.96	AV
middle Channel (5550 MHz)-Above 1G							
Vertical	4592.06	62.38	-20.42	41.96	74.00	-32.04	PK
Vertical	4592.06	43.06	-20.42	22.65	54.00	-31.35	AV
Vertical	11100.02	64.98	-8.40	56.58	68.20	-11.62	PK
Vertical	11100.02	43.25	-8.40	34.85	54.00	-19.15	AV
Vertical	16650.10	62.95	-5.60	57.35	74.00	-16.65	PK
Vertical	16650.10	43.19	-5.60	37.59	54.00	-16.41	AV
Horizontal	4592.14	63.06	-20.42	42.65	74.00	-31.35	PK
Horizontal	4592.14	43.13	-20.42	22.71	54.00	-31.29	AV
Horizontal	11100.19	52.41	-8.40	44.01	68.20	-24.19	PK
Horizontal	11100.19	42.70	-8.40	34.30	54.00	-19.70	AV
Horizontal	16650.20	52.89	-5.60	47.29	74.00	-26.71	PK
Horizontal	16650.20	43.69	-5.60	38.09	54.00	-15.91	AV
High Channel (5670 MHz)-Above 1G							
Vertical	4739.10	60.22	-20.12	40.10	68.20	-28.10	PK
Vertical	4739.10	43.14	-20.12	23.02	54.00	-30.98	AV
Vertical	11340.02	61.61	-8.67	52.94	68.20	-15.26	PK
Vertical	11340.02	43.46	-8.67	34.79	54.00	-19.21	AV
Vertical	17010.09	63.04	-4.41	58.63	74.00	-15.37	PK
Vertical	17010.09	43.25	-4.41	38.84	54.00	-15.16	AV
Horizontal	4739.10	61.51	-20.12	41.39	68.20	-26.81	PK
Horizontal	4739.10	43.30	-20.12	23.18	54.00	-30.82	AV
Horizontal	11340.08	52.44	-8.67	43.77	68.20	-24.43	PK
Horizontal	11340.08	40.36	-8.67	31.69	54.00	-22.31	AV
Horizontal	17010.08	54.53	-4.41	50.12	74.00	-23.88	PK
Horizontal	17010.08	44.56	-4.41	40.15	54.00	-13.85	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode:	TX(5.6G) - 802.11ac-HT80
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5530 MHz)-Above 1G							
Vertical	4434.11	63.12	-20.73	42.39	68.20	-25.81	PK
Vertical	4434.11	43.97	-20.73	23.23	54.00	-30.77	AV
Vertical	11060.00	62.07	-8.45	53.62	68.20	-14.58	PK
Vertical	11060.00	43.81	-8.45	35.36	54.00	-18.64	AV
Vertical	16590.16	60.23	-5.79	54.44	74.00	-19.56	PK
Vertical	16590.16	43.98	-5.79	38.19	54.00	-15.81	AV
Horizontal	4434.13	61.05	-20.73	40.32	68.20	-27.88	PK
Horizontal	4434.13	43.93	-20.73	23.19	54.00	-30.81	AV
Horizontal	11060.00	52.99	-8.45	44.54	68.20	-23.66	PK
Horizontal	11060.00	42.66	-8.45	34.21	54.00	-19.79	AV
Horizontal	16590.07	54.95	-5.79	49.16	74.00	-24.84	PK
Horizontal	16590.07	43.36	-5.79	37.57	54.00	-16.43	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(5.8G) - 802.11a
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.20	72.82	-20.24	52.58	74.00	-21.42	PK
Vertical	4679.20	59.41	-20.24	39.17	54.00	-14.83	AV
Vertical	11490.06	64.20	-8.79	55.41	68.20	-12.79	PK
Vertical	11490.06	49.39	-8.79	40.60	54.00	-13.40	AV
Vertical	17235.10	55.09	-3.18	51.91	68.20	-16.29	PK
Vertical	17235.10	44.65	-3.18	41.47	54.00	-12.53	AV
Horizontal	4679.04	74.20	-20.73	53.47	74.00	-20.53	PK
Horizontal	4679.04	59.53	-20.73	38.80	54.00	-15.20	AV
Horizontal	11490.04	62.59	-8.79	53.80	68.20	-14.40	PK
Horizontal	11490.04	49.93	-8.79	41.14	54.00	-12.86	AV
Horizontal	17235.07	55.52	-3.18	52.34	68.20	-15.86	PK
Horizontal	17235.07	44.99	-3.18	41.81	54.00	-12.19	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.09	74.33	-20.42	53.91	74.00	-20.09	PK
Vertical	4592.09	59.61	-20.42	39.19	54.00	-14.81	AV
Vertical	11570.12	61.06	-8.86	52.20	68.20	-16.00	PK
Vertical	11570.12	49.89	-8.86	41.03	54.00	-12.97	AV
Vertical	17355.08	59.51	-2.52	56.99	68.20	-11.21	PK
Vertical	17355.08	44.77	-2.52	42.25	54.00	-11.75	AV
Horizontal	4592.11	72.16	-20.42	51.74	74.00	-22.26	PK
Horizontal	4592.11	59.36	-20.42	38.94	54.00	-15.06	AV
Horizontal	11570.10	61.28	-8.86	52.42	68.20	-15.78	PK
Horizontal	11570.10	49.26	-8.86	40.40	54.00	-13.60	AV
Horizontal	17355.06	59.91	-2.52	57.39	68.20	-10.81	PK
Horizontal	17355.06	44.60	-2.52	42.08	54.00	-11.92	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.04	73.37	-18.93	54.44	68.20	-13.76	PK
Vertical	6039.04	59.21	-18.93	40.28	54.00	-13.72	AV
Vertical	11650.03	61.23	-8.92	52.31	74.00	-21.69	PK
Vertical	11650.03	49.76	-8.92	40.84	54.00	-13.16	AV
Vertical	17475.10	56.34	-1.86	54.48	68.20	-13.72	PK
Vertical	17475.10	44.11	-1.86	42.25	54.00	-11.75	AV
Horizontal	6039.00	71.27	-18.93	52.33	68.20	-15.87	PK
Horizontal	6039.00	59.09	-18.93	40.16	54.00	-13.84	AV
Horizontal	11650.16	61.65	-8.92	52.73	74.00	-21.27	PK
Horizontal	11650.16	49.27	-8.92	40.35	54.00	-13.65	AV
Horizontal	17475.09	56.25	-1.86	54.39	68.20	-13.81	PK
Horizontal	17475.09	44.50	-1.86	42.64	54.00	-11.36	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 (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.15	75.00	-20.24	54.75	74.00	-19.25	PK
Vertical	4679.15	59.84	-20.24	39.60	54.00	-14.40	AV
Vertical	11490.02	64.79	-8.79	56.00	68.20	-12.20	PK
Vertical	11490.02	49.33	-8.79	40.54	54.00	-13.46	AV
Vertical	17235.02	56.67	-3.18	53.49	68.20	-14.71	PK
Vertical	17235.02	44.52	-3.18	41.34	54.00	-12.66	AV
Horizontal	4679.01	70.08	-20.24	49.84	74.00	-24.16	PK
Horizontal	4679.01	59.69	-20.24	39.44	54.00	-14.56	AV
Horizontal	11490.10	61.50	-8.79	52.71	68.20	-15.49	PK
Horizontal	11490.10	49.08	-8.79	40.29	54.00	-13.71	AV
Horizontal	17235.13	59.76	-3.18	56.58	68.20	-11.62	PK
Horizontal	17235.13	44.45	-3.18	41.27	54.00	-12.73	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.11	72.15	-20.42	51.73	74.00	-22.27	PK
Vertical	4592.11	59.58	-20.42	39.16	54.00	-14.84	AV
Vertical	11570.07	64.73	-8.86	55.87	68.20	-12.33	PK
Vertical	11570.07	49.65	-8.86	40.79	54.00	-13.21	AV
Vertical	17355.09	55.92	-2.52	53.40	68.20	-14.80	PK
Vertical	17355.09	44.57	-2.52	42.05	54.00	-11.95	AV
Horizontal	4592.04	70.22	-20.42	49.80	74.00	-24.20	PK
Horizontal	4592.04	59.71	-20.42	39.30	54.00	-14.70	AV
Horizontal	11570.06	62.27	-8.86	53.41	68.20	-14.79	PK
Horizontal	11570.06	49.79	-8.86	40.93	54.00	-13.07	AV
Horizontal	17355.18	56.22	-2.52	53.70	68.20	-14.50	PK
Horizontal	17355.18	44.83	-2.52	42.31	54.00	-11.69	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.17	73.71	-18.93	54.77	68.20	-13.43	PK
Vertical	6039.17	59.22	-18.93	40.29	54.00	-13.71	AV
Vertical	11650.10	64.26	-8.92	55.34	74.00	-18.66	PK
Vertical	11650.10	49.97	-8.92	41.05	54.00	-12.95	AV
Vertical	17475.07	56.62	-1.86	54.76	68.20	-13.44	PK
Vertical	17475.07	44.24	-1.86	42.38	54.00	-11.62	AV
Horizontal	6039.19	71.06	-18.93	52.13	68.20	-16.07	PK
Horizontal	6039.19	59.17	-18.93	40.24	54.00	-13.76	AV
Horizontal	11650.19	64.38	-8.92	55.46	74.00	-18.54	PK
Horizontal	11650.19	49.48	-8.92	40.56	54.00	-13.44	AV
Horizontal	17475.02	58.06	-1.86	56.20	68.20	-12.00	PK
Horizontal	17475.02	44.26	-1.86	42.40	54.00	-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) - 802.11n-HT40
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.19	74.72	-20.24	54.48	74.00	-19.52	PK
Vertical	4679.19	59.83	-20.24	39.59	54.00	-14.41	AV
Vertical	11510.03	62.87	-8.81	54.06	74.00	-19.94	PK
Vertical	11510.03	49.16	-8.81	40.35	54.00	-13.65	AV
Vertical	17265.09	59.76	-3.01	56.75	68.20	-11.45	PK
Vertical	17265.09	44.41	-3.01	41.40	54.00	-12.60	AV
Horizontal	4679.07	72.12	-20.24	51.88	74.00	-22.12	PK
Horizontal	4679.07	59.57	-20.24	39.33	54.00	-14.67	AV
Horizontal	11510.13	63.02	-8.81	54.21	74.00	-19.79	PK
Horizontal	11510.13	49.86	-8.81	41.05	54.00	-12.95	AV
Horizontal	17265.20	56.46	-3.01	53.45	68.20	-14.75	PK
Horizontal	17265.20	44.60	-3.01	41.59	54.00	-12.41	AV
High Channel (5795 MHz)-Above 1G							
Vertical	6039.18	72.48	-18.93	53.55	68.20	-14.65	PK
Vertical	6039.18	59.32	-18.93	40.38	54.00	-13.62	AV
Vertical	11590.03	61.58	-8.87	52.71	74.00	-21.29	PK
Vertical	11590.03	49.98	-8.87	41.11	54.00	-12.89	AV
Vertical	17385.15	56.74	-2.35	54.39	68.20	-13.81	PK
Vertical	17385.15	44.99	-2.35	42.64	54.00	-11.36	AV
Horizontal	6039.01	72.21	-18.93	53.28	68.20	-14.92	PK
Horizontal	6039.01	59.11	-18.93	40.18	54.00	-13.82	AV
Horizontal	11590.11	63.01	-8.87	54.14	74.00	-19.86	PK
Horizontal	11590.11	49.43	-8.87	40.56	54.00	-13.44	AV
Horizontal	17385.15	55.80	-2.35	53.45	68.20	-14.75	PK
Horizontal	17385.15	44.28	-2.35	41.93	54.00	-12.07	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	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.09	72.97	-20.24	52.73	74.00	-21.27	PK
Vertical	4679.09	59.60	-20.24	39.36	54.00	-14.64	AV
Vertical	11490.16	62.14	-8.79	53.35	68.20	-14.85	PK
Vertical	11490.16	49.40	-8.79	40.61	54.00	-13.39	AV
Vertical	17235.13	58.69	-3.18	55.51	68.20	-12.69	PK
Vertical	17235.13	44.56	-3.18	41.38	54.00	-12.62	AV
Horizontal	4679.05	74.83	-20.24	54.59	74.00	-19.41	PK
Horizontal	4679.05	59.17	-20.24	38.93	54.00	-15.07	AV
Horizontal	11490.17	63.15	-8.79	54.36	68.20	-13.84	PK
Horizontal	11490.17	49.51	-8.79	40.72	54.00	-13.28	AV
Horizontal	17235.06	55.49	-3.18	52.31	68.20	-15.89	PK
Horizontal	17235.06	44.83	-3.18	41.65	54.00	-12.35	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.05	71.89	-20.42	51.47	74.00	-22.53	PK
Vertical	4592.05	59.07	-20.42	38.65	54.00	-15.35	AV
Vertical	11570.11	64.81	-8.86	55.95	68.20	-12.25	PK
Vertical	11570.11	49.17	-8.86	40.31	54.00	-13.69	AV
Vertical	17355.13	57.63	-2.52	55.11	68.20	-13.09	PK
Vertical	17355.13	44.48	-2.52	41.96	54.00	-12.04	AV
Horizontal	4592.13	70.58	-20.42	50.17	74.00	-23.83	PK
Horizontal	4592.13	59.09	-20.42	38.67	54.00	-15.33	AV
Horizontal	11570.10	62.54	-8.86	53.68	68.20	-14.52	PK
Horizontal	11570.10	49.29	-8.86	40.43	54.00	-13.57	AV
Horizontal	17355.16	57.22	-2.52	54.70	68.20	-13.50	PK
Horizontal	17355.16	44.20	-2.52	41.68	54.00	-12.32	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.01	74.53	-18.93	55.60	68.20	-12.60	PK
Vertical	6039.01	59.96	-18.93	41.03	54.00	-12.97	AV
Vertical	11650.02	63.04	-8.92	54.12	74.00	-19.88	PK
Vertical	11650.02	49.17	-8.92	40.25	54.00	-13.75	AV
Vertical	17475.18	59.77	-1.86	57.91	68.20	-10.29	PK
Vertical	17475.18	44.25	-1.86	42.39	54.00	-11.61	AV
Horizontal	6039.16	72.96	-18.93	54.03	68.20	-14.17	PK
Horizontal	6039.16	59.52	-18.93	40.58	54.00	-13.42	AV
Horizontal	11650.19	62.30	-8.92	53.38	74.00	-20.62	PK
Horizontal	11650.19	49.29	-8.92	40.37	54.00	-13.63	AV
Horizontal	17475.07	59.35	-1.86	57.49	68.20	-10.71	PK
Horizontal	17475.07	44.50	-1.86	42.64	54.00	-11.36	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	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.09	71.46	-20.24	51.22	74.00	-22.78	PK
Vertical	4679.09	59.99	-20.24	39.75	54.00	-14.25	AV
Vertical	11510.06	62.78	-8.81	53.97	74.00	-20.03	PK
Vertical	11510.06	49.19	-8.81	40.38	54.00	-13.62	AV
Vertical	17265.06	57.10	-3.01	54.09	68.20	-14.11	PK
Vertical	17265.06	44.58	-3.01	41.57	54.00	-12.43	AV
Horizontal	4679.10	71.55	-20.24	51.30	74.00	-22.70	PK
Horizontal	4679.10	59.03	-20.24	38.79	54.00	-15.21	AV
Horizontal	11510.04	61.72	-8.81	52.91	74.00	-21.09	PK
Horizontal	11510.04	49.07	-8.81	40.26	54.00	-13.74	AV
Horizontal	17265.09	56.91	-3.01	53.90	68.20	-14.30	PK
Horizontal	17265.09	44.95	-3.01	41.94	54.00	-12.06	AV
High Channel (5795 MHz)-Above 1G							
Vertical	6039.10	71.65	-18.93	52.72	68.20	-15.48	PK
Vertical	6039.10	59.21	-18.93	40.28	54.00	-13.72	AV
Vertical	11590.07	60.32	-8.87	51.45	74.00	-22.55	PK
Vertical	11590.07	49.86	-8.87	40.99	54.00	-13.01	AV
Vertical	17385.04	56.27	-2.35	53.92	68.20	-14.28	PK
Vertical	17385.04	44.80	-2.35	42.45	54.00	-11.55	AV
Horizontal	6039.00	74.73	-18.93	55.80	68.20	-12.40	PK
Horizontal	6039.00	59.60	-18.93	40.67	54.00	-13.33	AV
Horizontal	11590.13	63.81	-8.87	54.94	74.00	-19.06	PK
Horizontal	11590.13	49.14	-8.87	40.27	54.00	-13.73	AV
Horizontal	17385.18	56.71	-2.35	54.36	68.20	-13.84	PK
Horizontal	17385.18	44.75	-2.35	42.40	54.00	-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) - 802.11ac-HT80
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5775 MHz)-Above 1G							
Vertical	4679.07	74.65	-20.24	54.40	74.00	-19.60	PK
Vertical	4679.07	59.31	-20.24	39.07	54.00	-14.93	AV
Vertical	11550.12	63.97	-8.84	55.13	74.00	-18.87	PK
Vertical	11550.12	49.52	-8.84	40.68	54.00	-13.32	AV
Vertical	17325.15	59.43	-2.68	56.75	68.20	-11.45	PK
Vertical	17325.15	44.25	-2.68	41.57	54.00	-12.43	AV
Horizontal	4679.11	72.59	-20.24	52.35	74.00	-21.65	PK
Horizontal	4679.11	59.34	-20.24	39.10	54.00	-14.90	AV
Horizontal	11550.17	62.10	-8.84	53.26	74.00	-20.74	PK
Horizontal	11550.17	49.38	-8.84	40.54	54.00	-13.46	AV
Horizontal	17325.01	58.75	-2.68	56.07	68.20	-12.13	PK
Horizontal	17325.01	44.15	-2.68	41.47	54.00	-12.53	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

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(b) (2) The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, 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.

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

8.3 Test Procedure

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

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3$ RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ KHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

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

8.4 EUT Operating Conditions

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

8.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.3V
Test Mode:	(5180-5240MHz)		

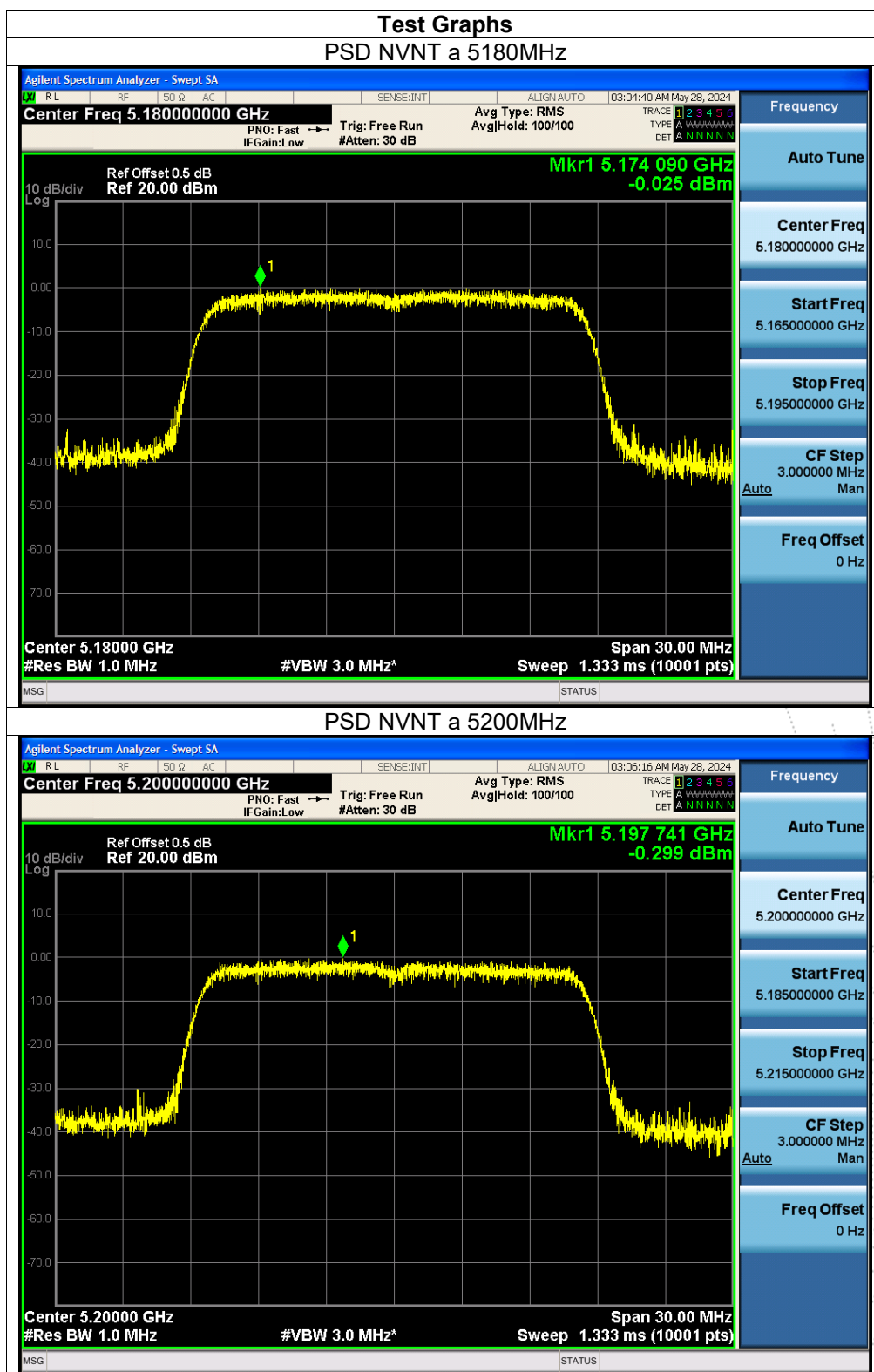
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Ant A	Ant B			
NVNT	a	5180	-2.25	-0.03	/	11	Pass
NVNT	a	5200	-2.14	-0.3	/	11	Pass
NVNT	a	5240	-1.99	-0.51	/	11	Pass
NVNT	n20	5180	-3.21	-1.83	0.54	8.99	Pass
NVNT	n20	5200	-3.3	-2.2	0.30	8.99	Pass
NVNT	n20	5240	-3.53	-2.32	0.13	8.99	Pass
NVNT	n40	5190	-7.25	-4.54	-2.68	8.99	Pass
NVNT	n40	5230	-7.53	-5.52	-3.40	8.99	Pass
NVNT	ac20	5180	-4.4	-1.66	0.19	8.99	Pass
NVNT	ac20	5200	-4.05	-2.01	0.10	8.99	Pass
NVNT	ac20	5240	-4.38	-1.85	0.08	8.99	Pass
NVNT	ac40	5190	-7.73	-5.91	-3.72	8.99	Pass
NVNT	ac40	5230	-8.15	-4.97	-3.26	8.99	Pass
NVNT	ac80	5210	-11.53	-9.43	-7.34	8.99	Pass

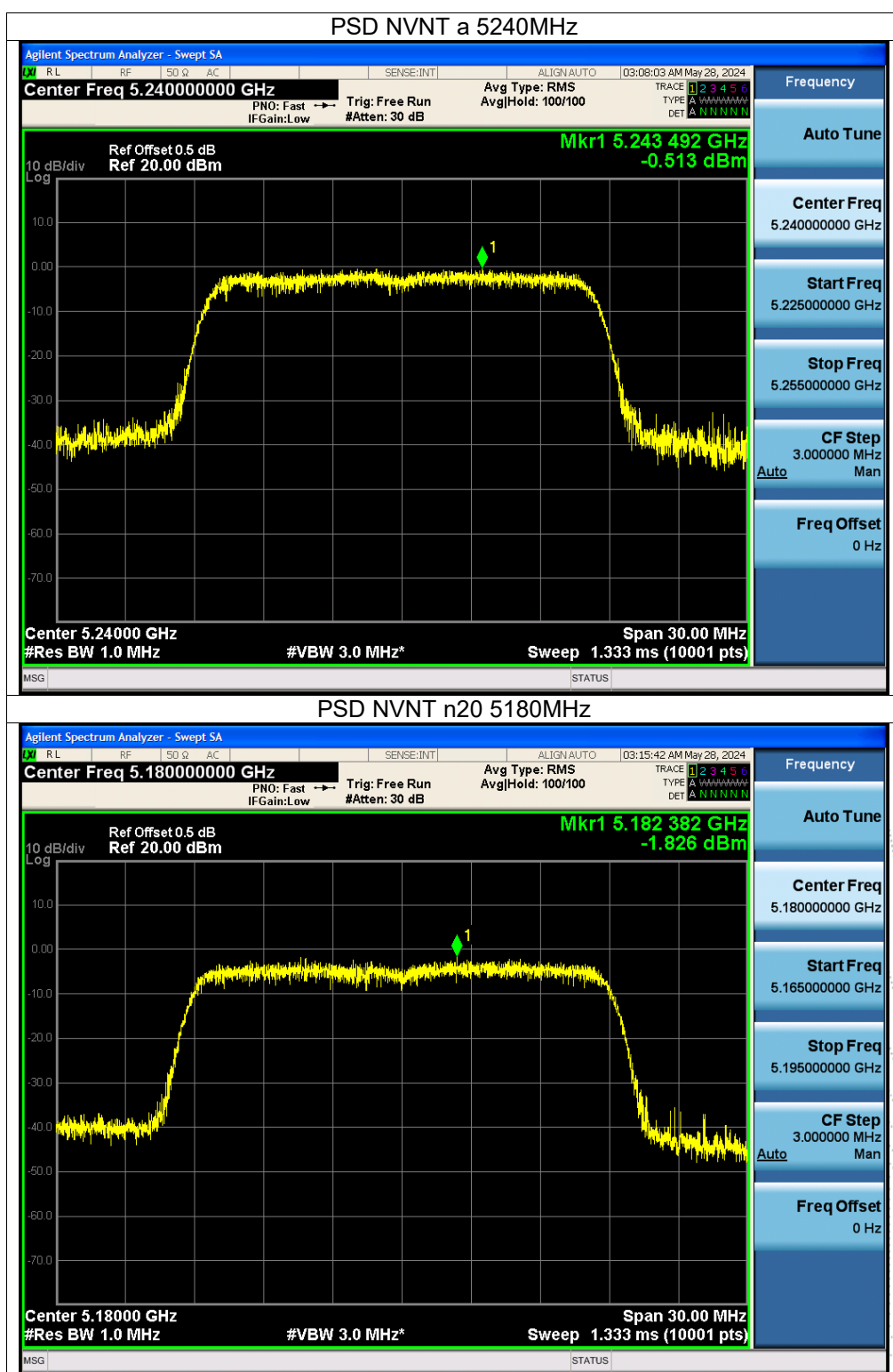
Note:

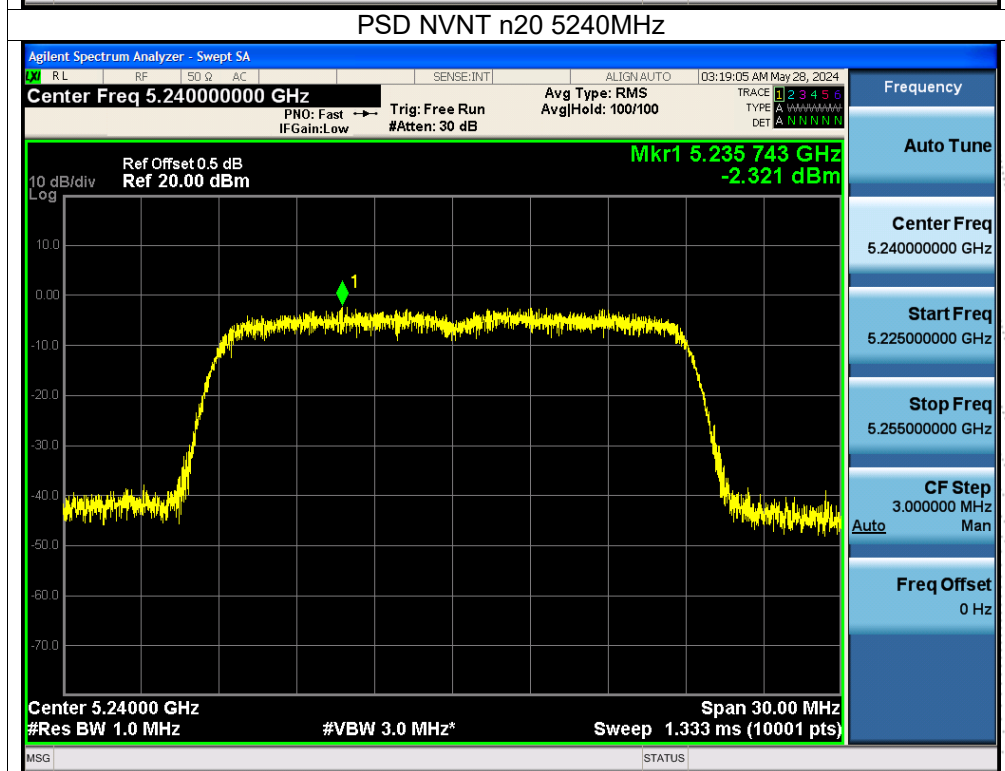
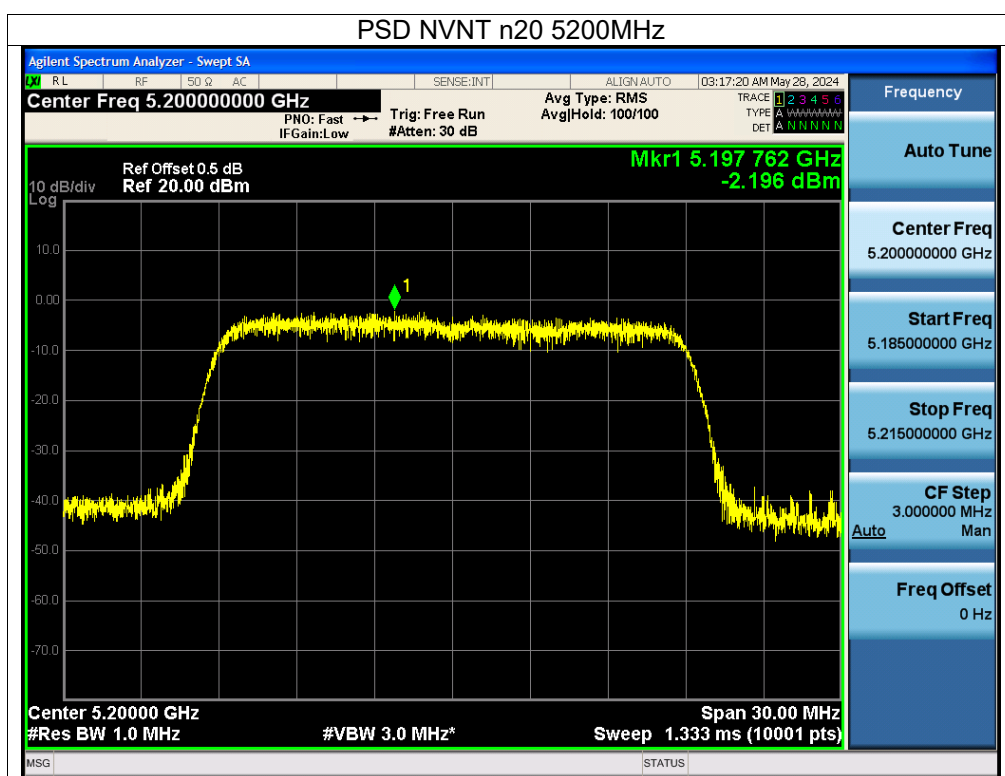
Antenna A gain: 5.0 dBi, Antenna B gain: 3.9 dBi, Directional gain=[GainANT + 10 log(NANT/NSS) dBi]
=8.01 dBi>6dBi

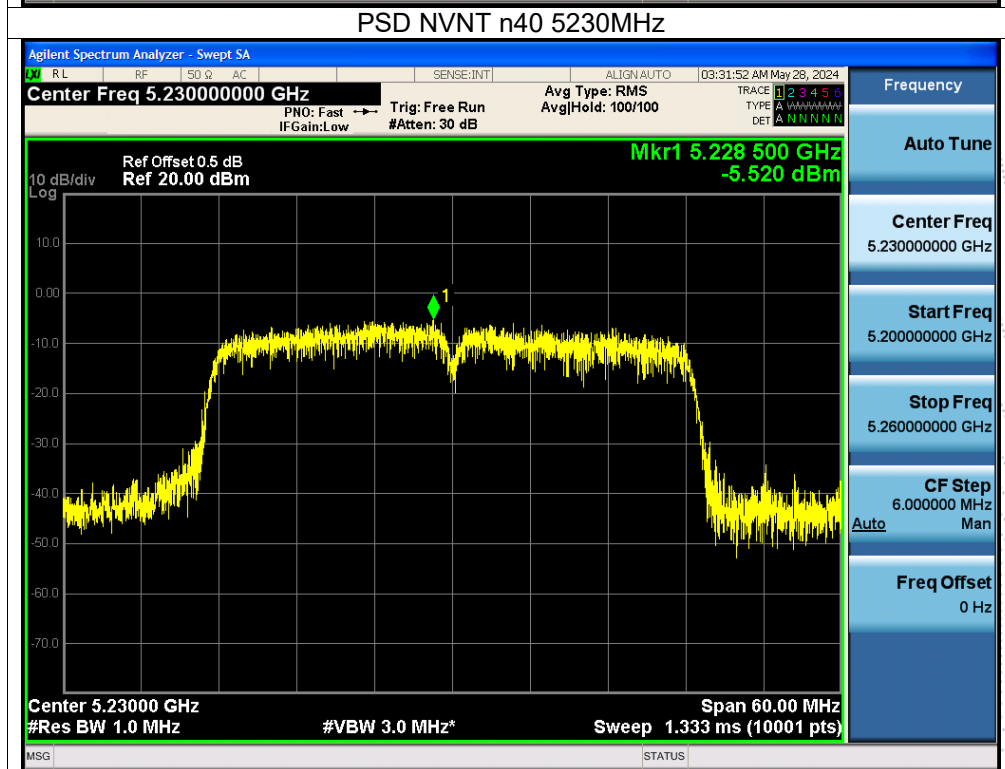
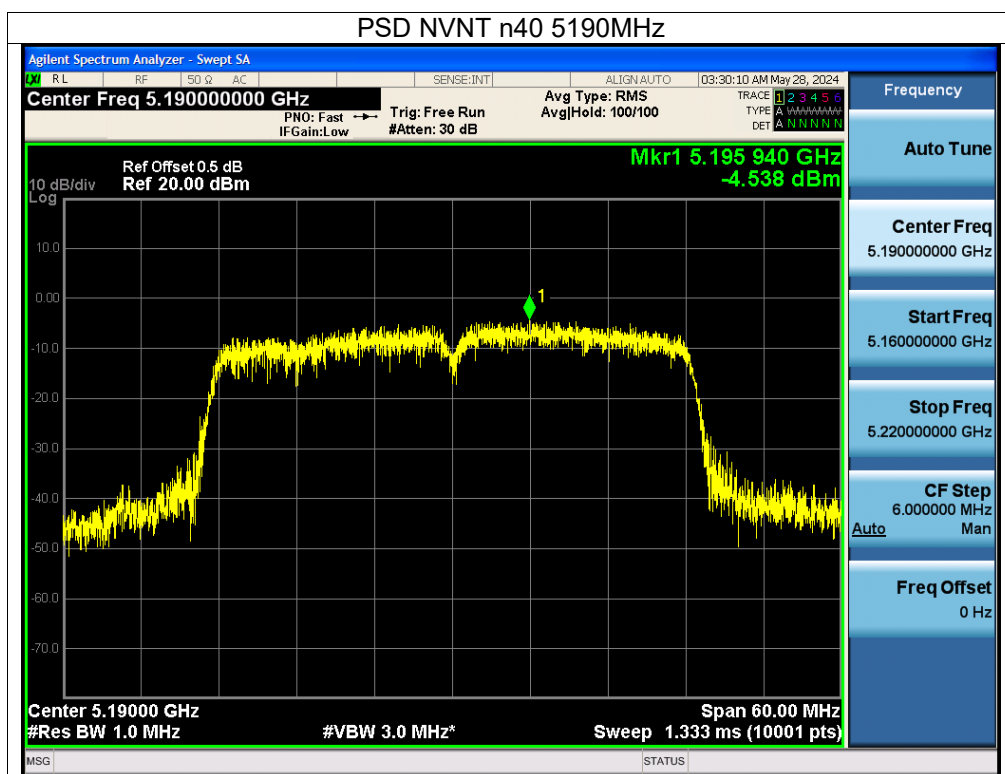
Limit=11-(8.01-6)=8.99 dBi

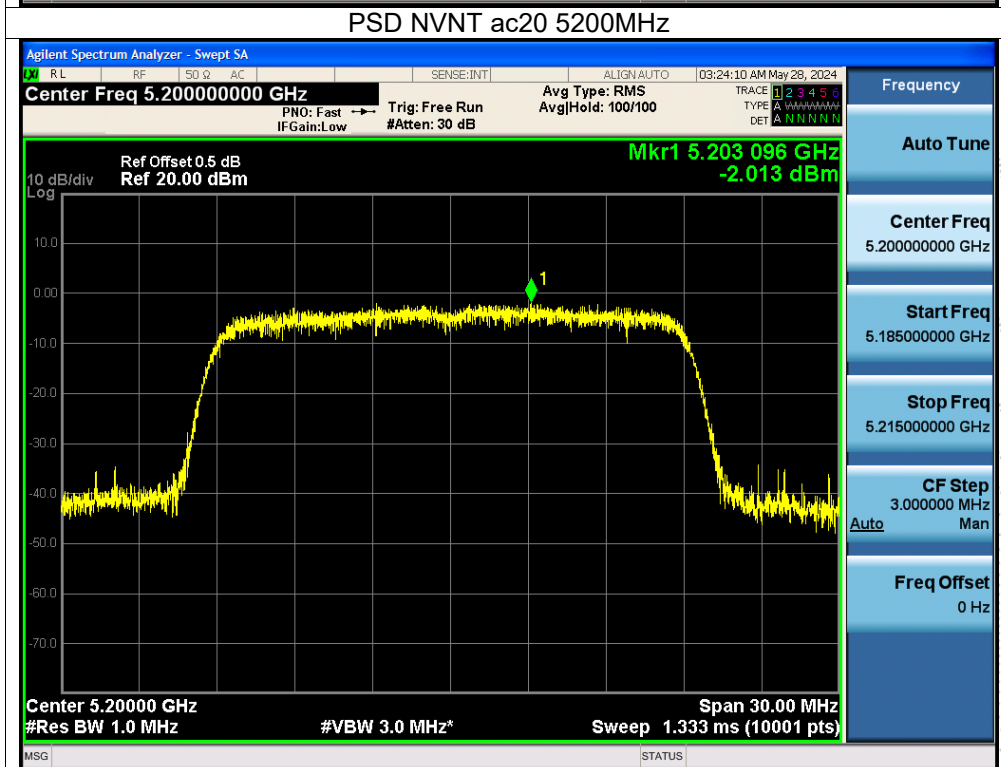
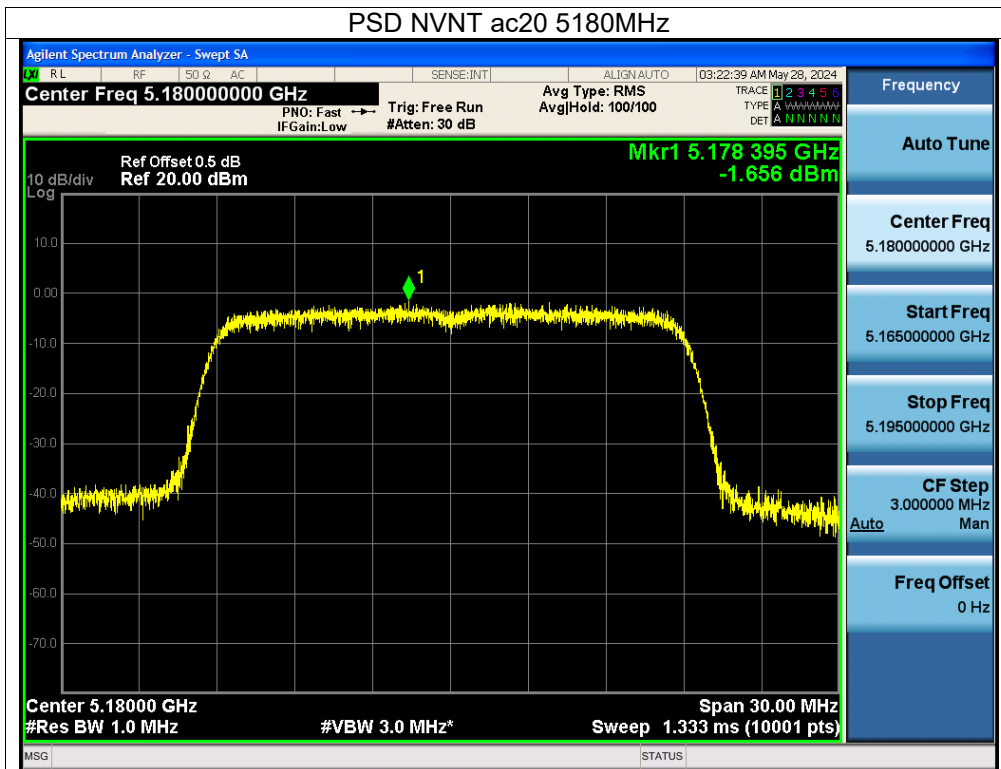
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

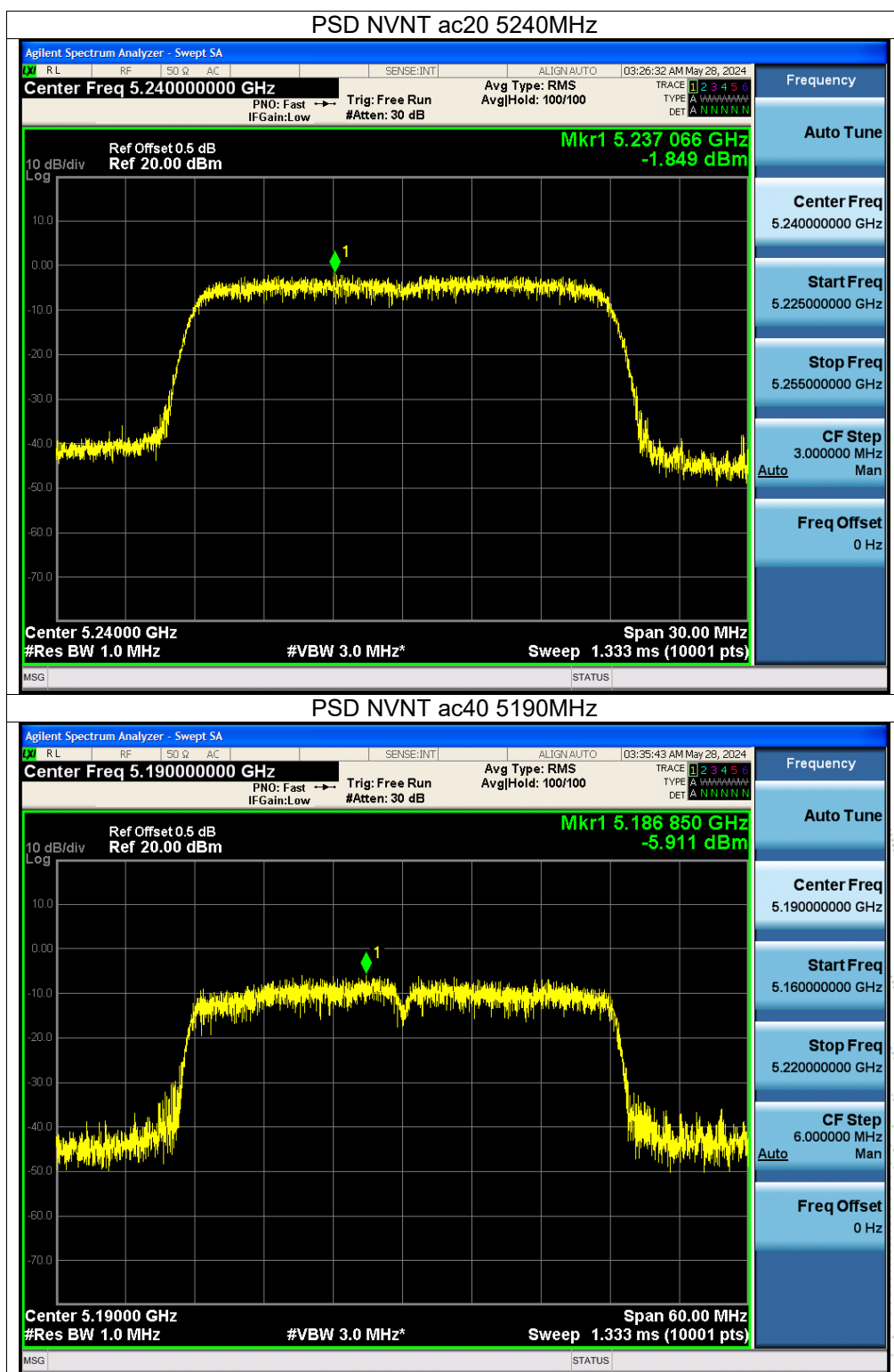


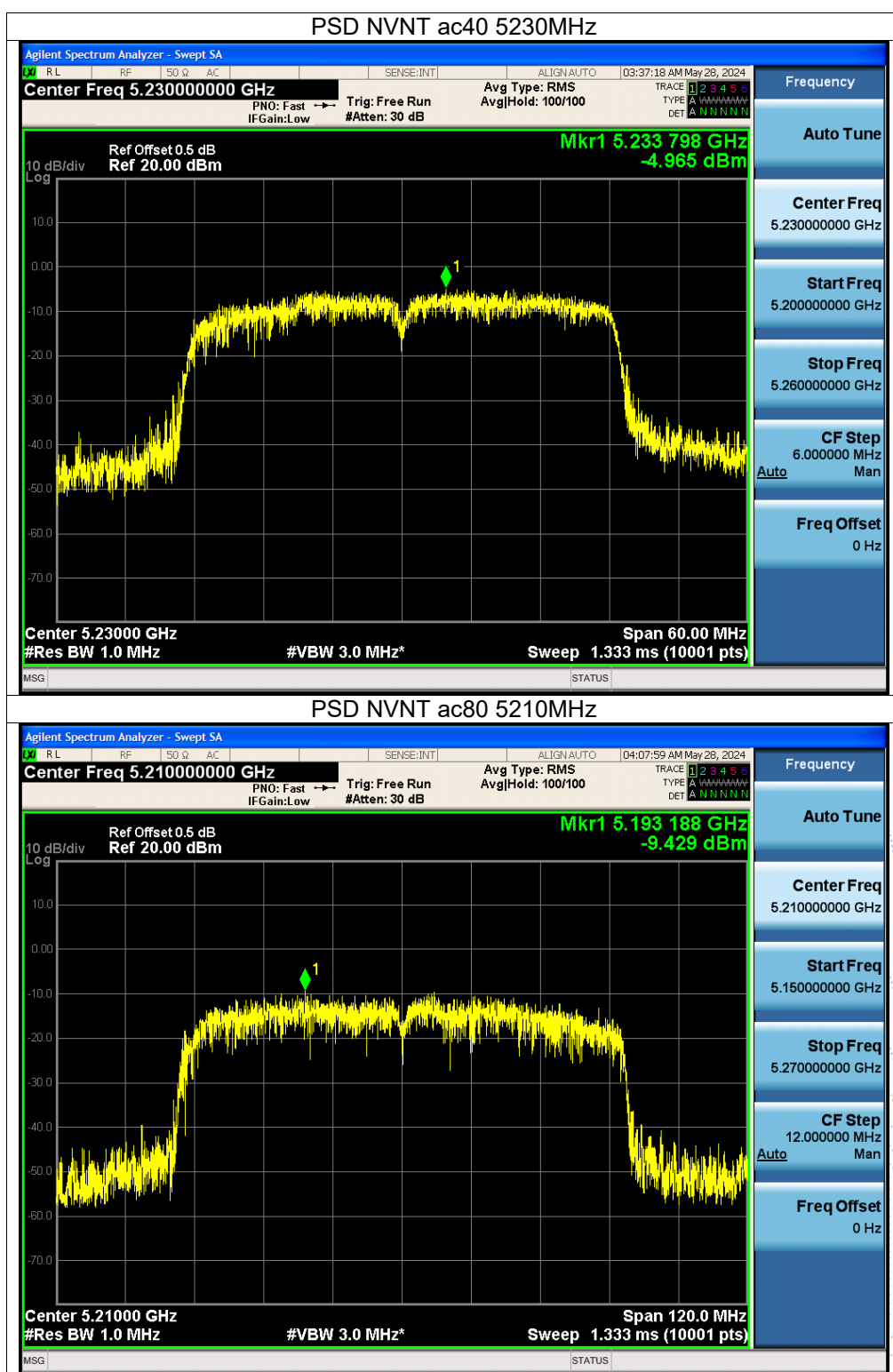












Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.3V
Test Mode:	(5260-5320MHz)		

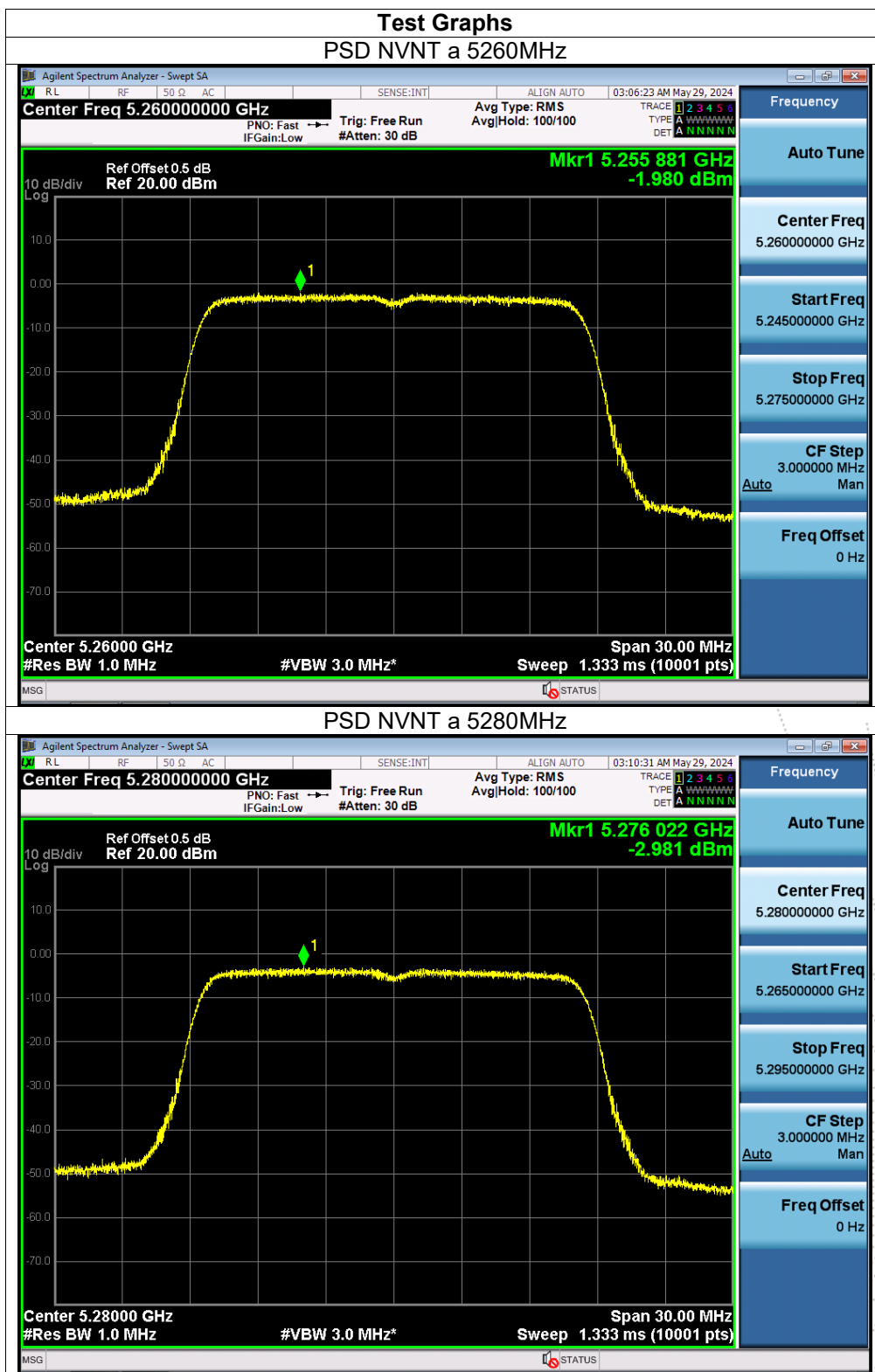
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Ant A	Ant B			
NVNT	a	5260	-2.11	-1.98	/	11	Pass
NVNT	a	5280	-3.23	-2.98	/	11	Pass
NVNT	a	5320	-3.23	-3.83	/	11	Pass
NVNT	n20	5260	-3.34	-2.85	-0.08	8.99	Pass
NVNT	n20	5280	-3.41	-3.6	-0.49	8.99	Pass
NVNT	n20	5320	-3.2	-5.29	-1.11	8.99	Pass
NVNT	n40	5270	-6.93	-7.14	-4.02	8.99	Pass
NVNT	n40	5310	-6.86	-8.65	-4.65	8.99	Pass
NVNT	ac20	5260	-3.21	-4.08	-0.61	8.99	Pass
NVNT	ac20	5280	-3.68	-3.72	-0.69	8.99	Pass
NVNT	ac20	5320	-3.45	-5.28	-1.26	8.99	Pass
NVNT	ac40	5270	-5.71	-7.08	-3.33	8.99	Pass
NVNT	ac40	5310	-7.13	-8.5	-4.75	8.99	Pass
NVNT	ac80	5290	-11.29	-11.39	-8.33	8.99	Pass

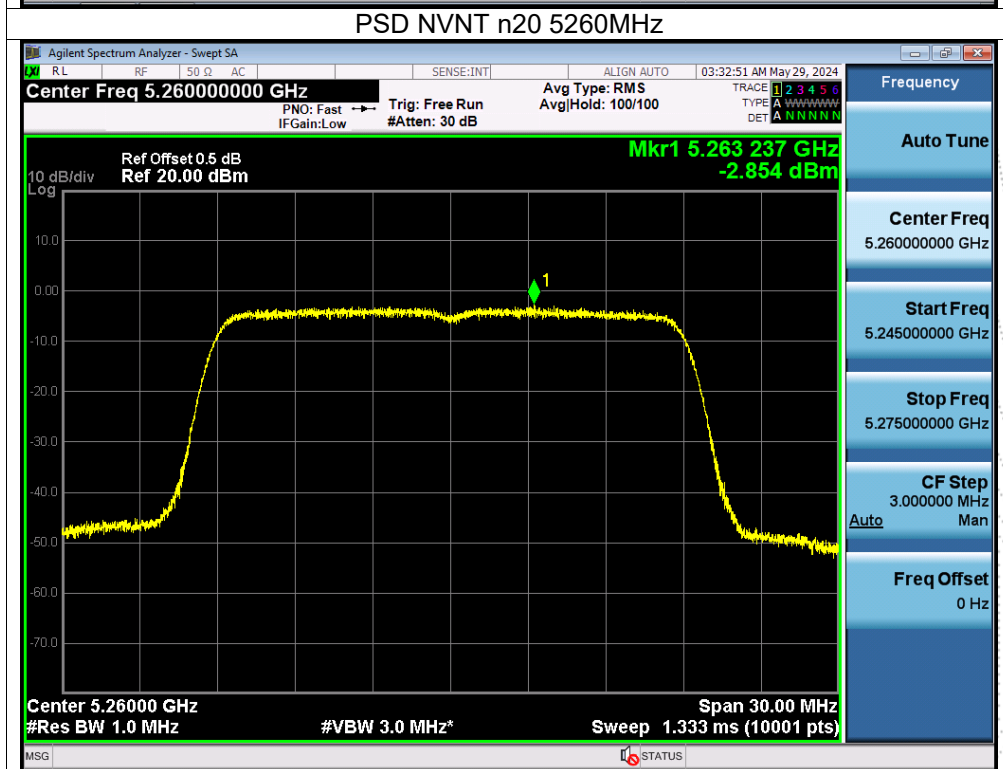
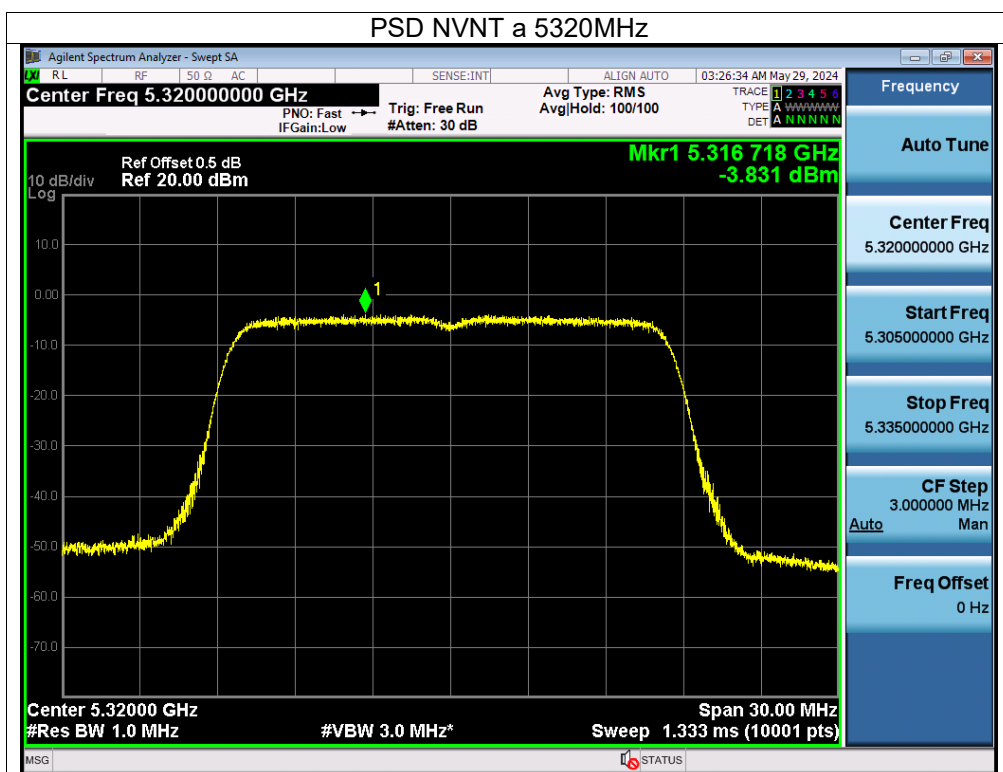
Note:

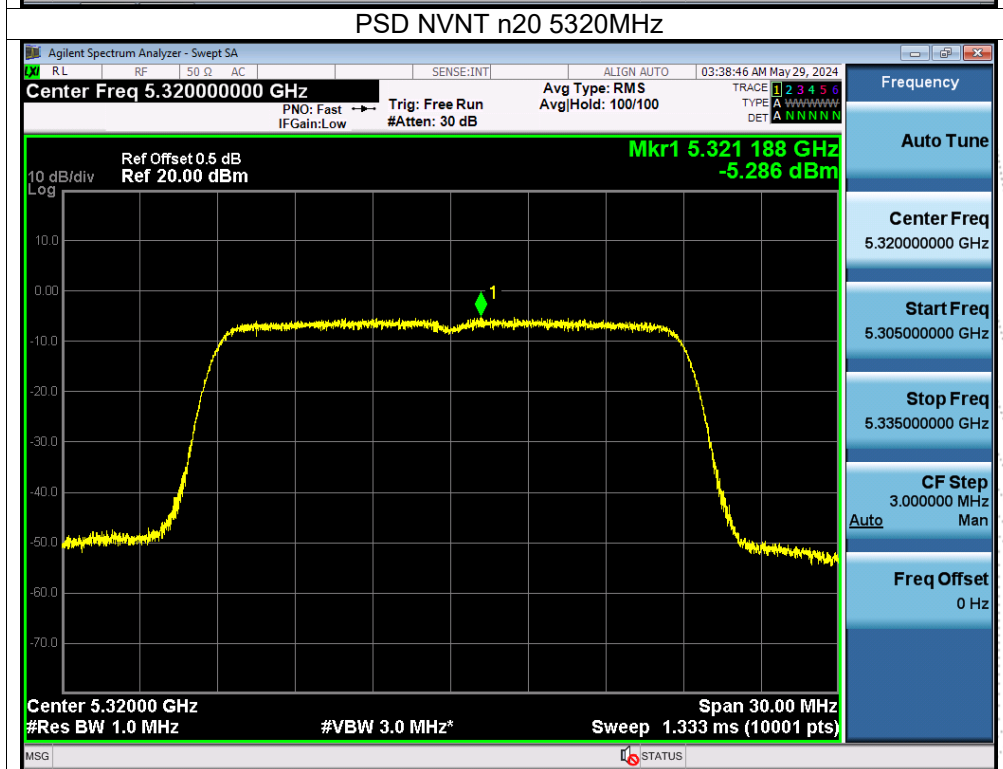
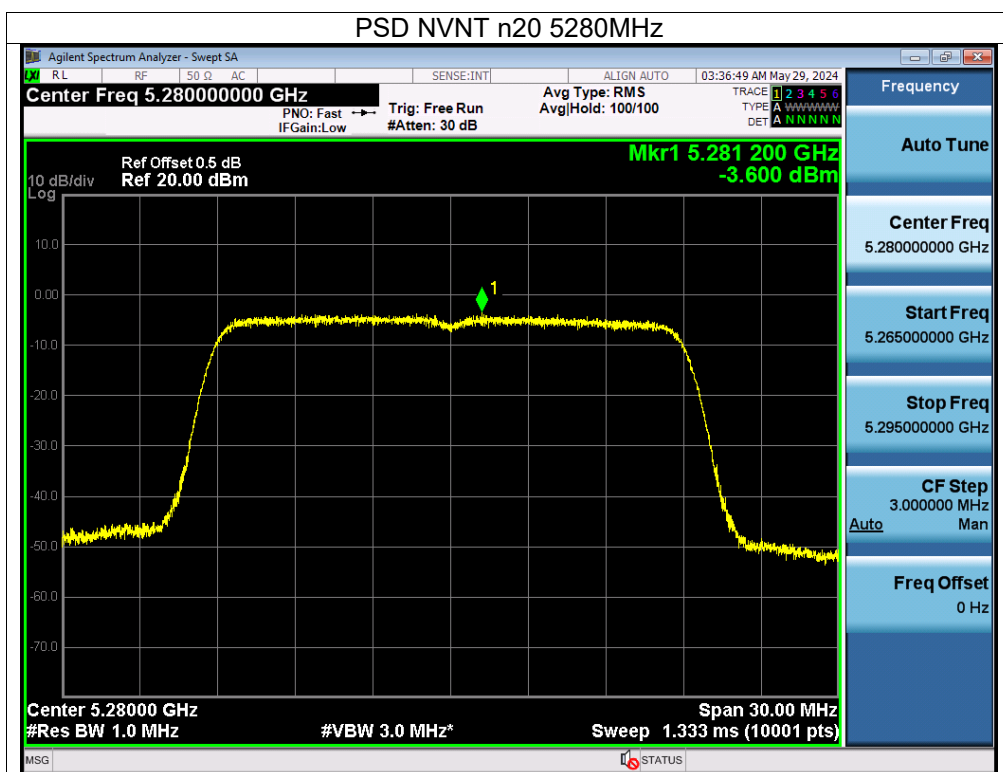
Antenna A gain: 5.0 dBi, Antenna B gain: 3.9 dBi, Directional gain=[GainANT + 10 log(NANT/NSS) dBi]
=8.01 dBi>6dBi

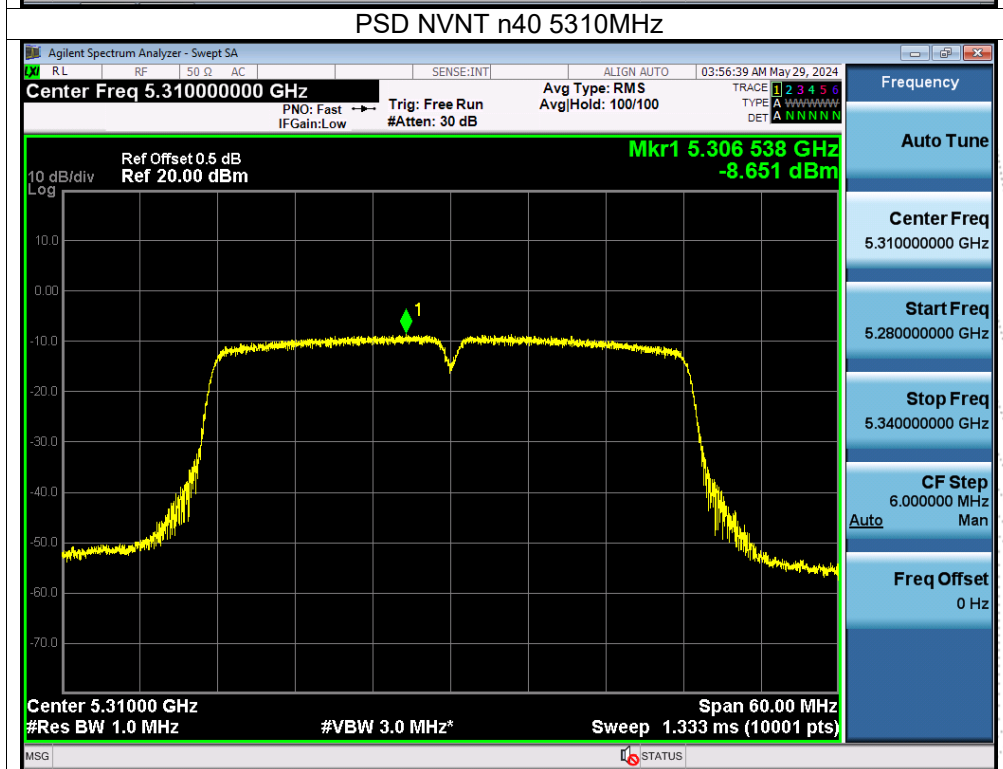
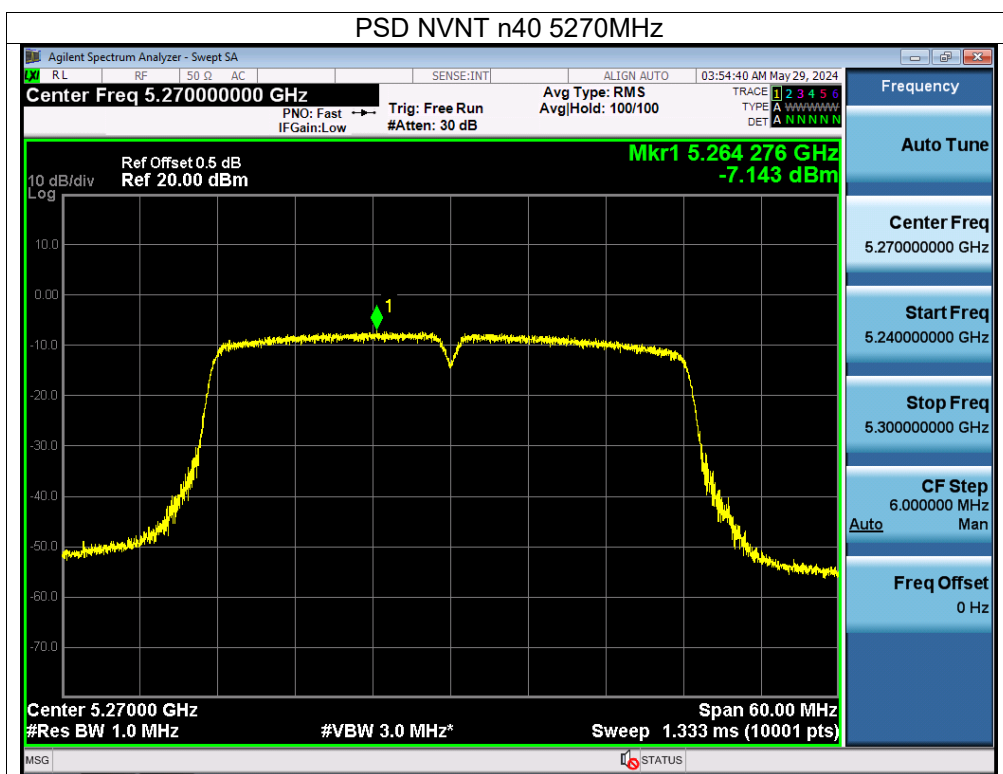
Limit=11-(8.01-6)=8.99 dBi

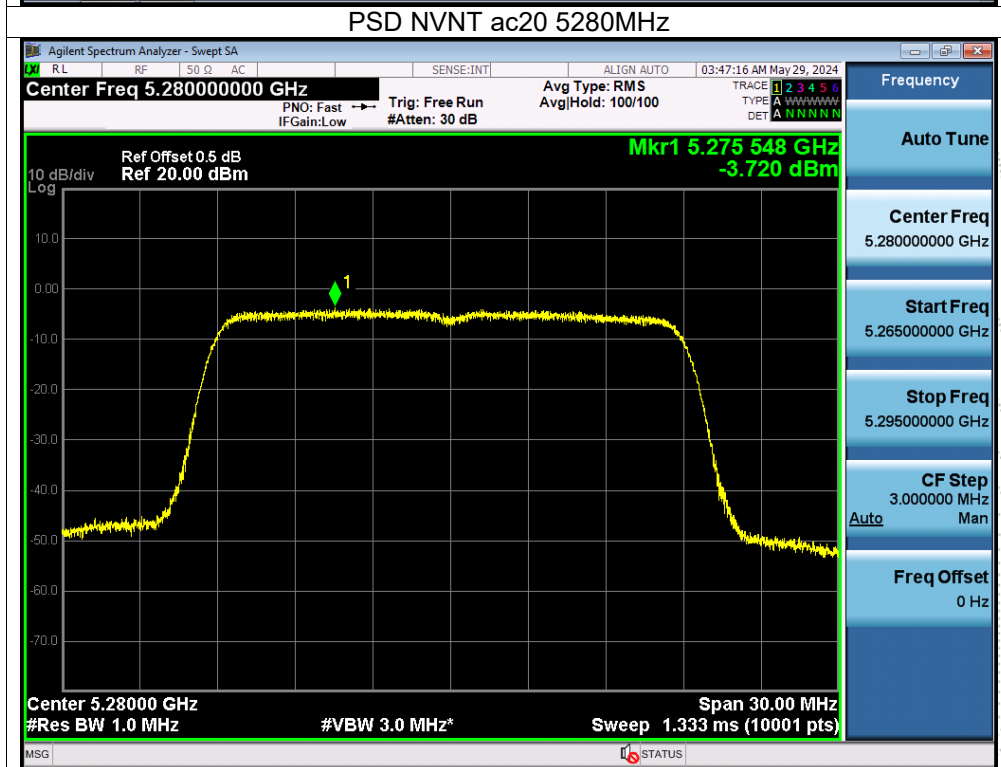
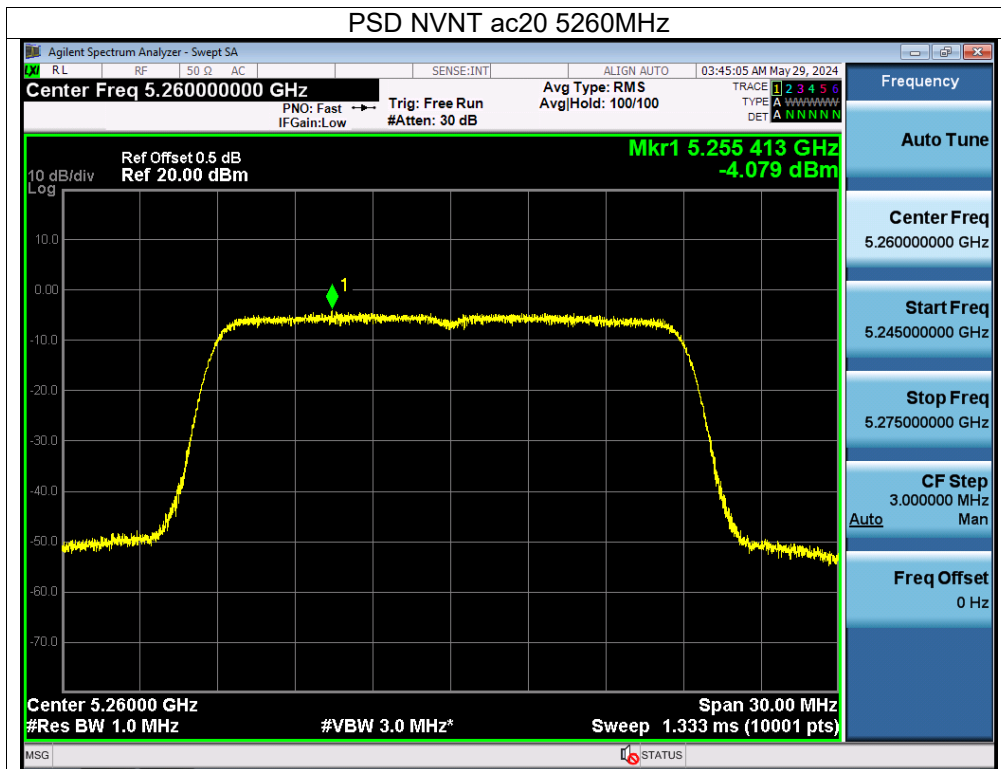
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

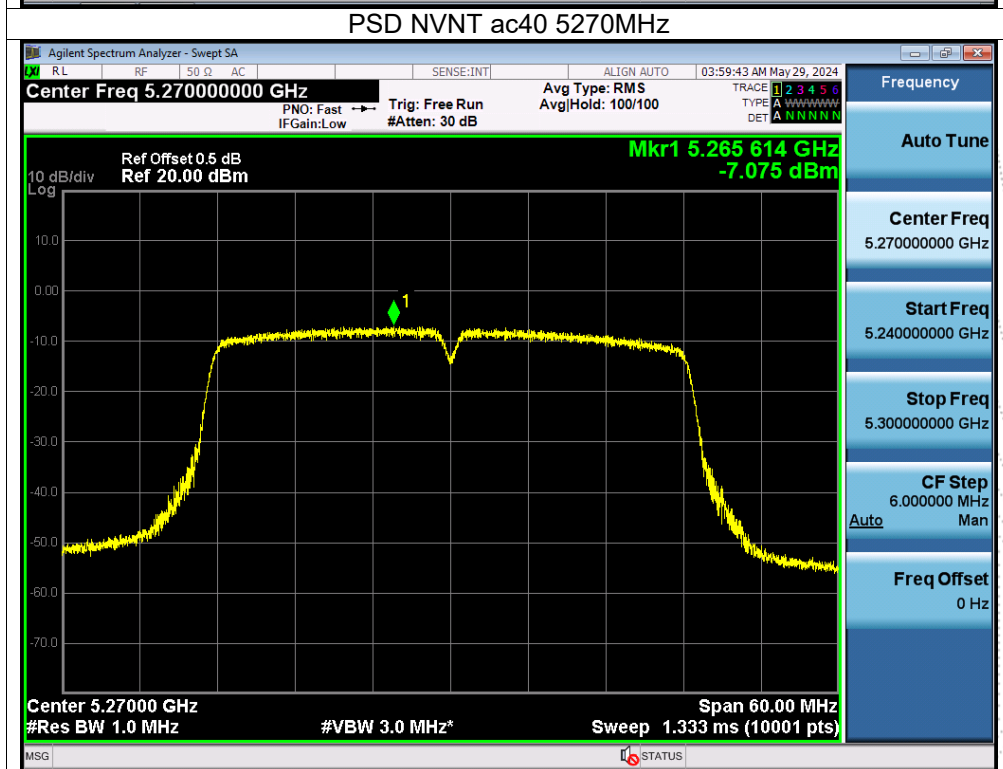
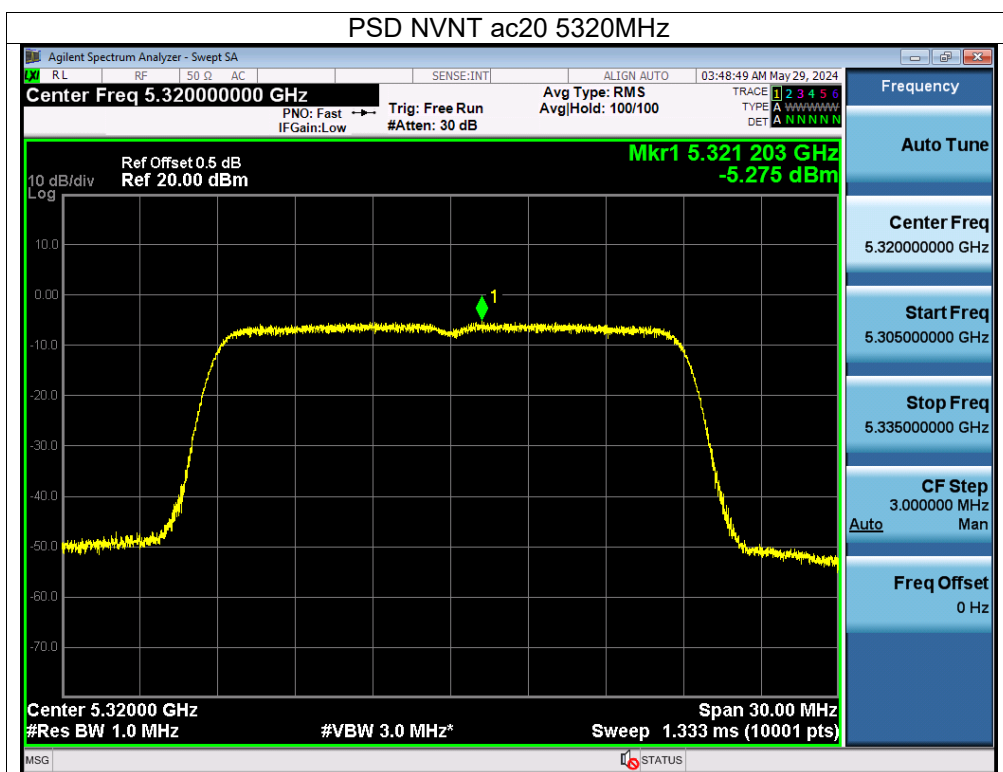


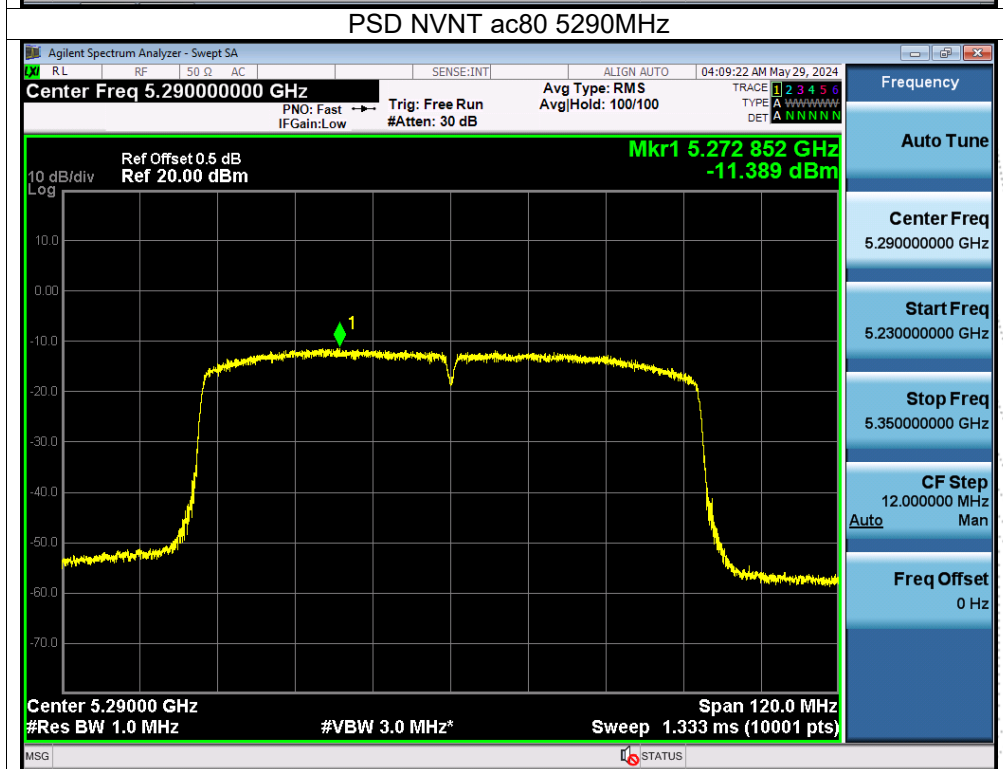
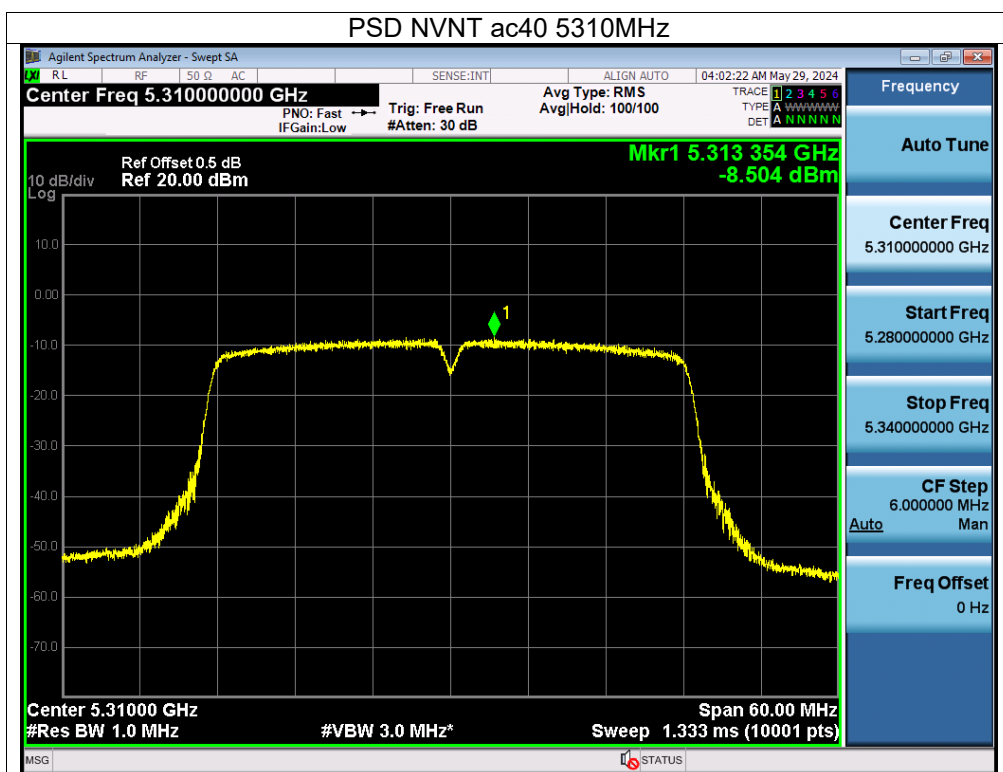












Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.3V
Test Mode:	(5500-5700MHz)		

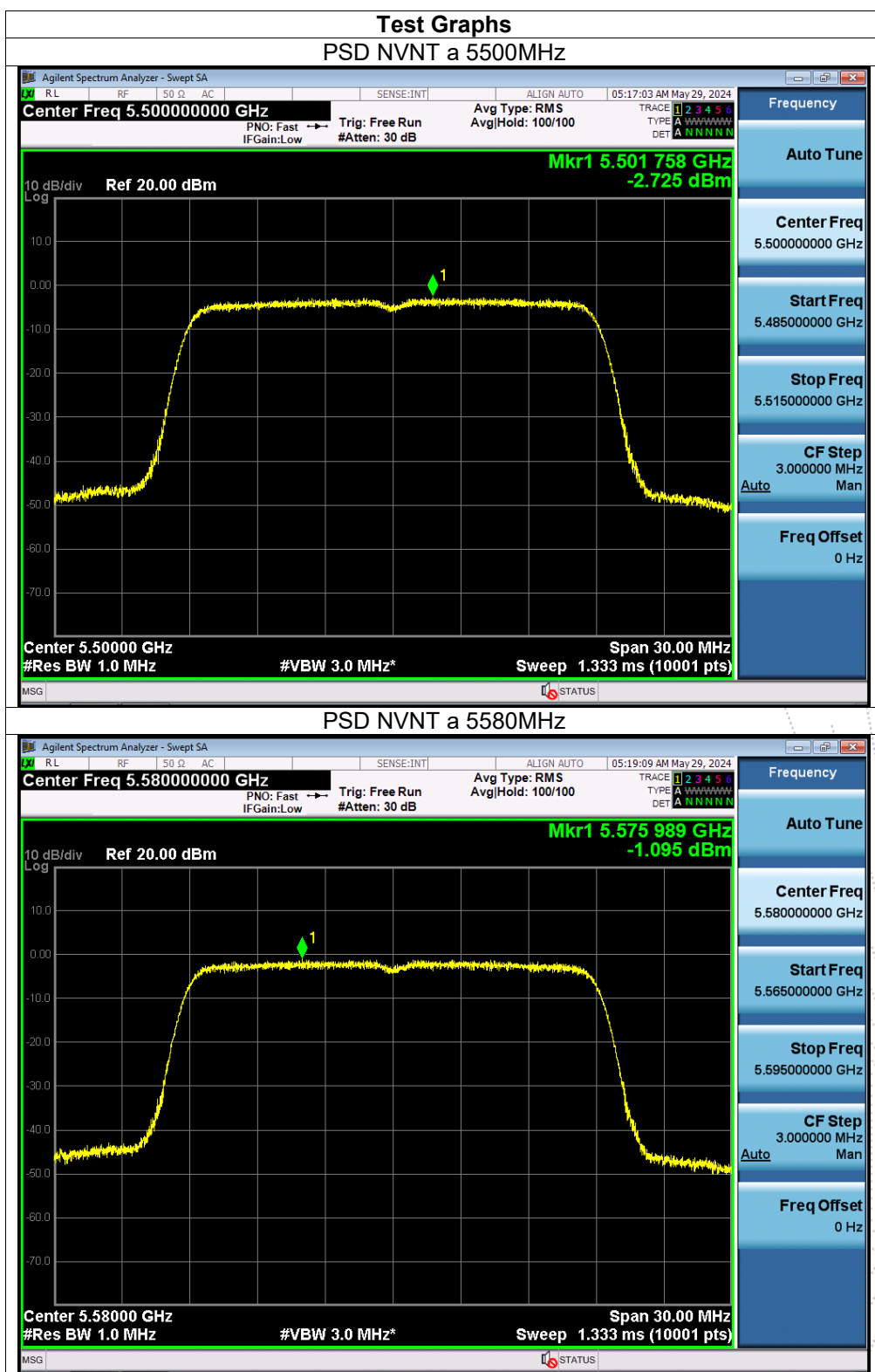
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Ant A	Ant B			
NVNT	a	5500	-2.06	-2.73	/	11	Pass
NVNT	a	5580	-2	-1.1	/	11	Pass
NVNT	a	5700	-1.73	-2.04	/	11	Pass
NVNT	n20	5500	-3.15	-3.5	-0.31	8.99	Pass
NVNT	n20	5580	-3.35	-2.13	0.31	8.99	Pass
NVNT	n20	5700	-2.92	-3.04	0.03	8.99	Pass
NVNT	n40	5510	-7.37	-8.12	-4.72	8.99	Pass
NVNT	n40	5550	-8.01	-6.91	-4.41	8.99	Pass
NVNT	n40	5670	-8.4	-7.64	-4.99	8.99	Pass
NVNT	ac20	5500	-3.77	-4.81	-1.25	8.99	Pass
NVNT	ac20	5580	-4.02	-3.08	-0.51	8.99	Pass
NVNT	ac20	5700	-3.7	-4.24	-0.95	8.99	Pass
NVNT	ac40	5510	-7.03	-7.76	-4.37	8.99	Pass
NVNT	ac40	5550	-7.93	-6.51	-4.15	8.99	Pass
NVNT	ac40	5670	-8.42	-7.58	-4.97	8.99	Pass
NVNT	ac80	5530	-12.07	-11.39	-8.71	8.99	Pass

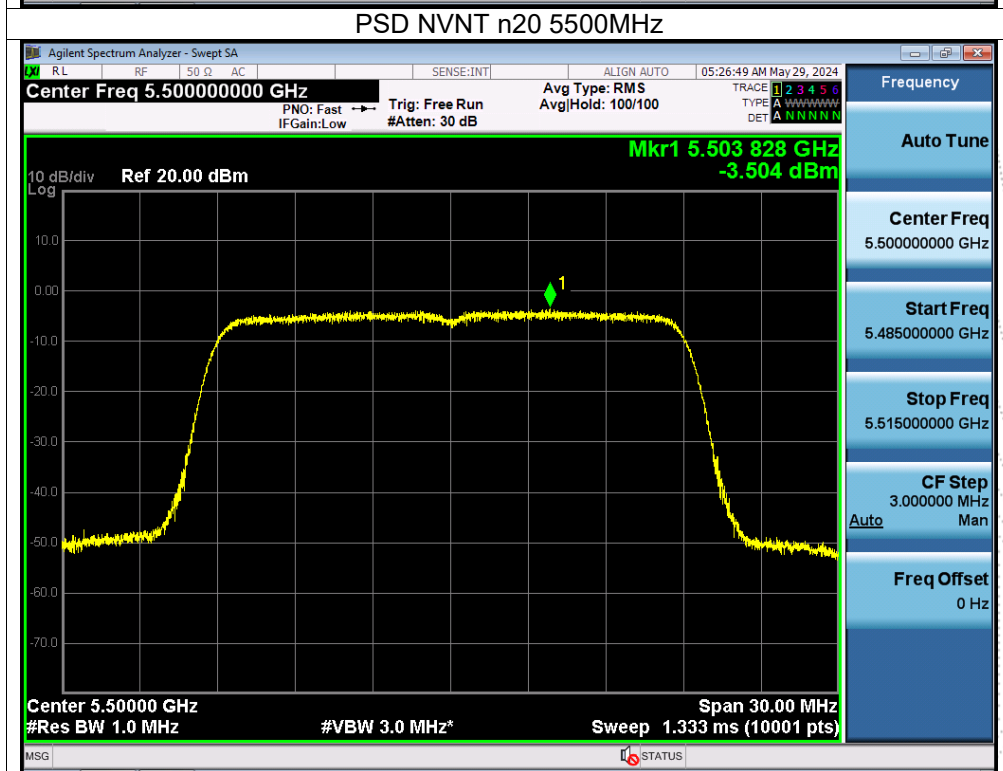
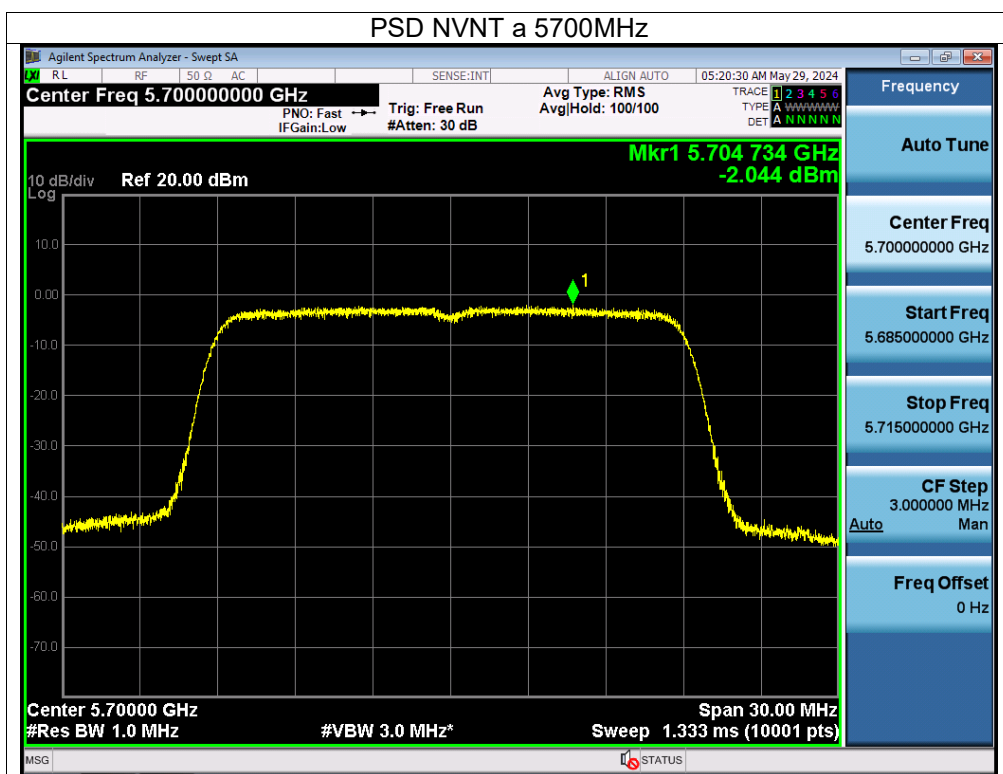
Note:

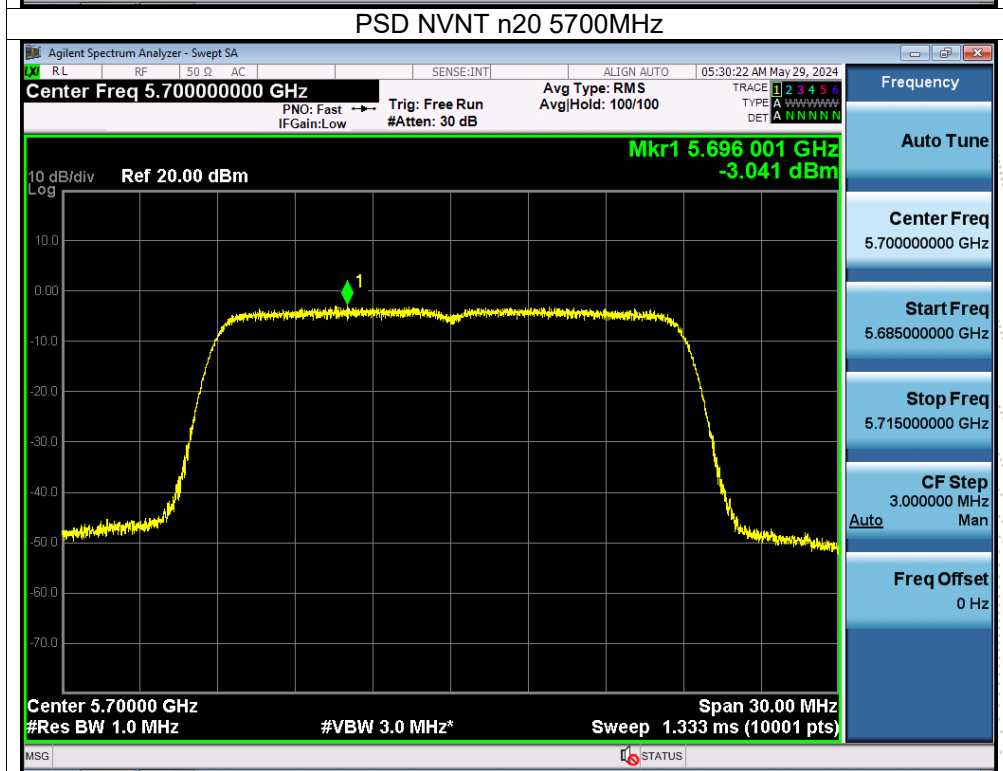
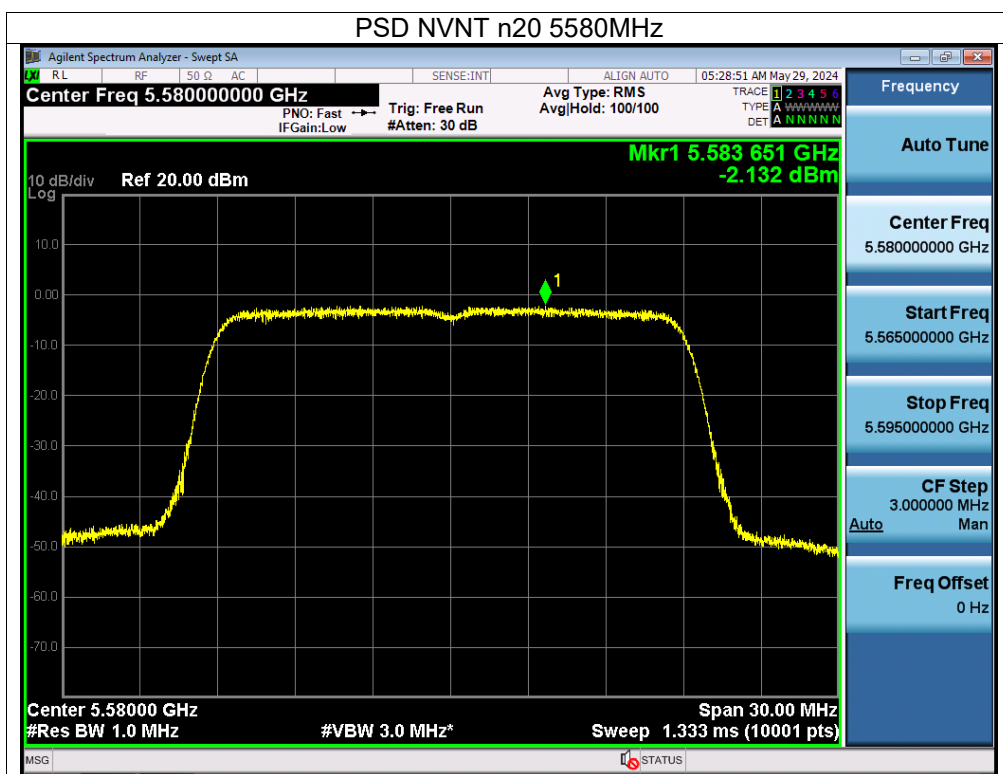
Antenna A gain: 5.0 dBi, Antenna B gain: 3.9 dBi, Directional gain=[GainANT + 10 log(NANT/NSS) dBi]
=8.01 dBi>6dBi

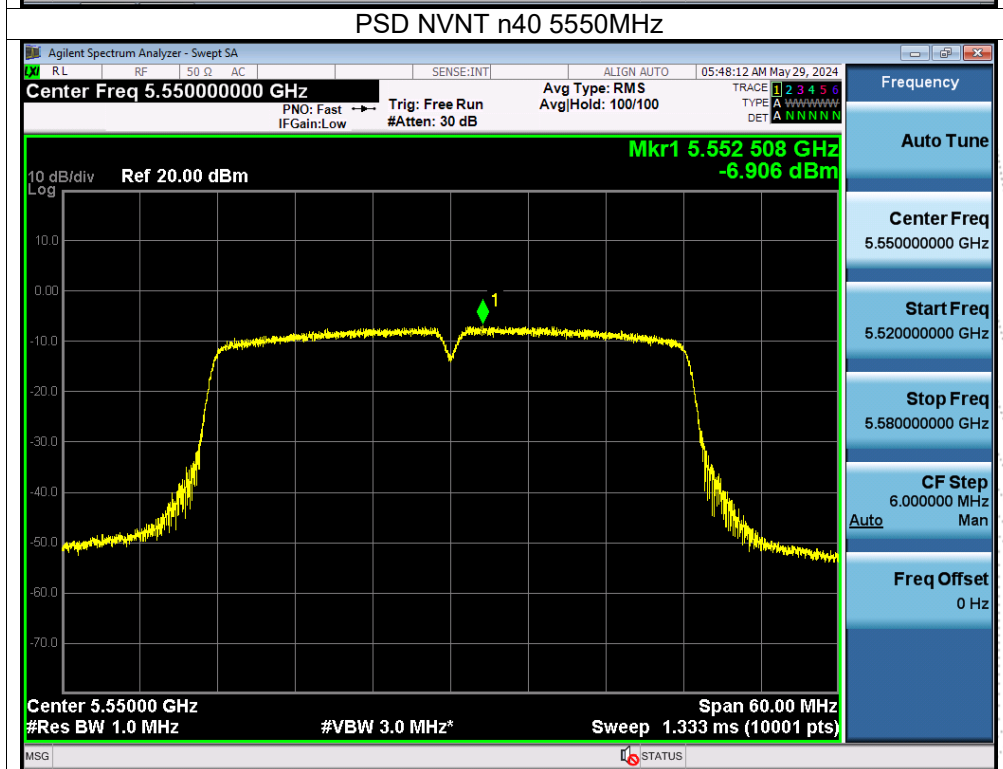
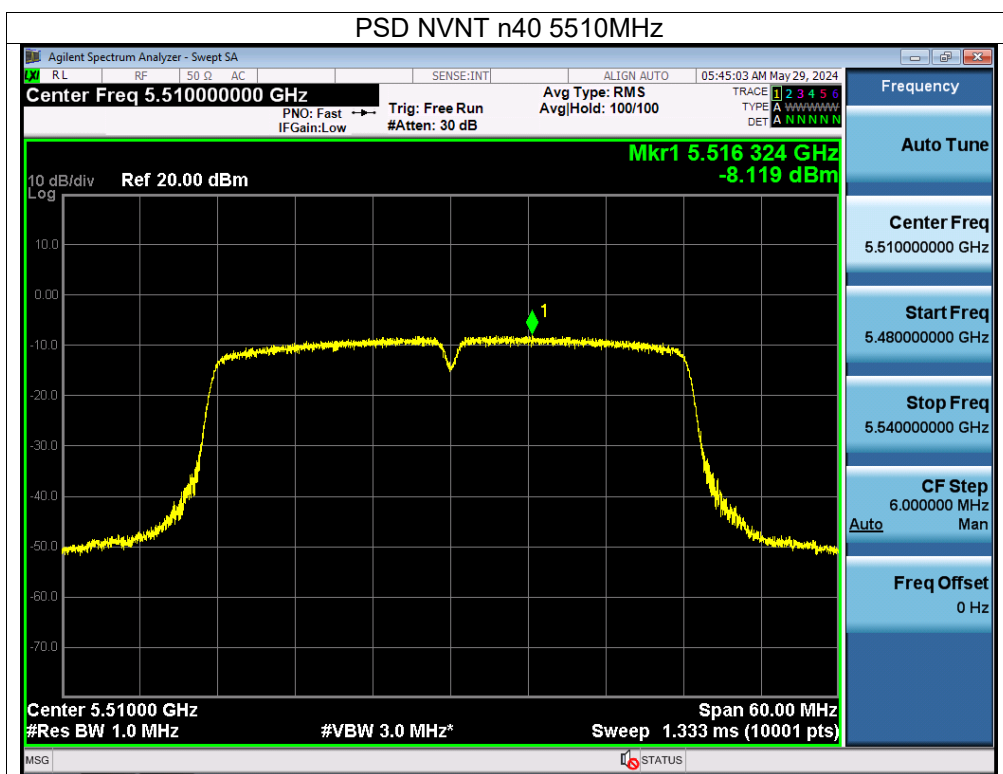
Limit=11-(8.01-6)=8.99 dBi

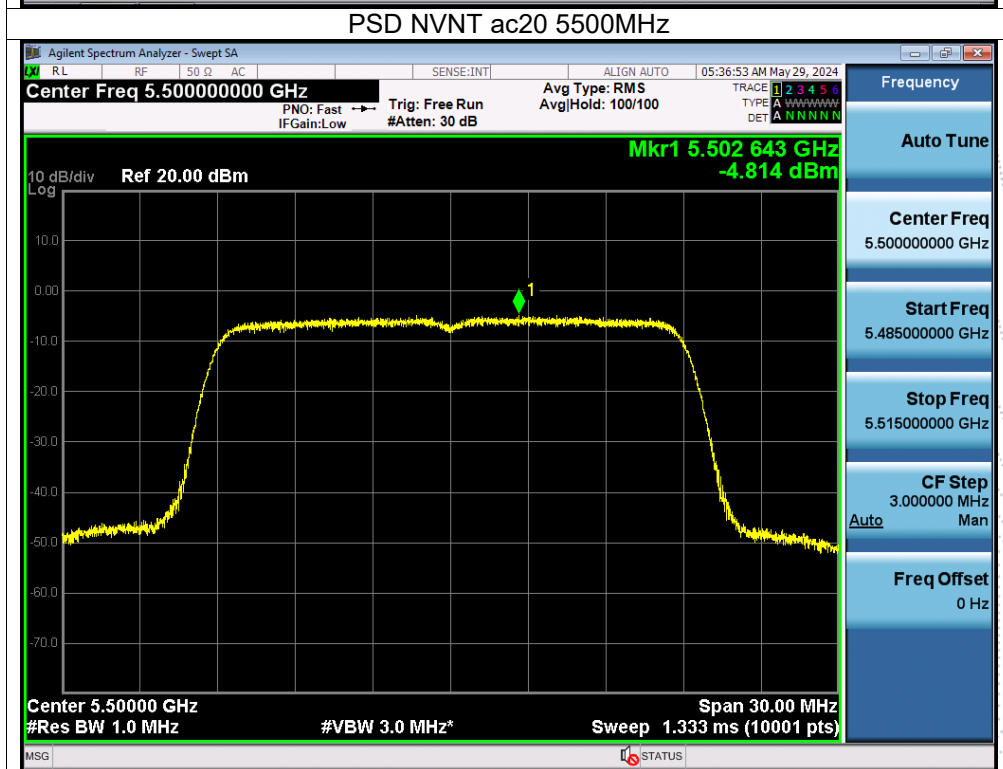
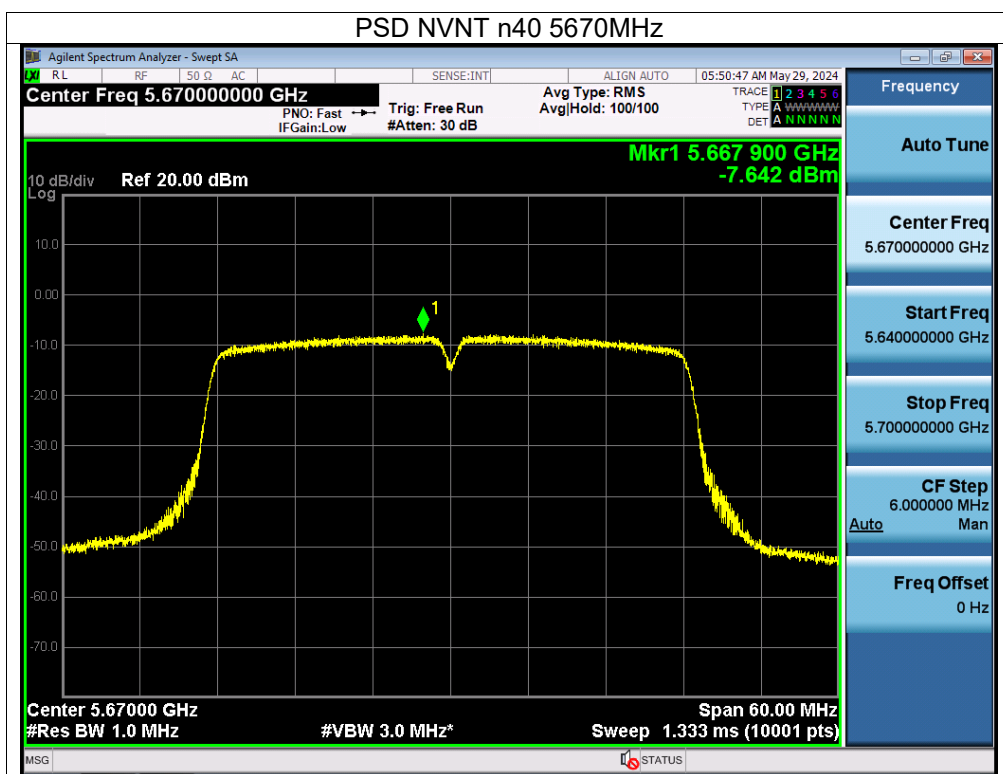
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

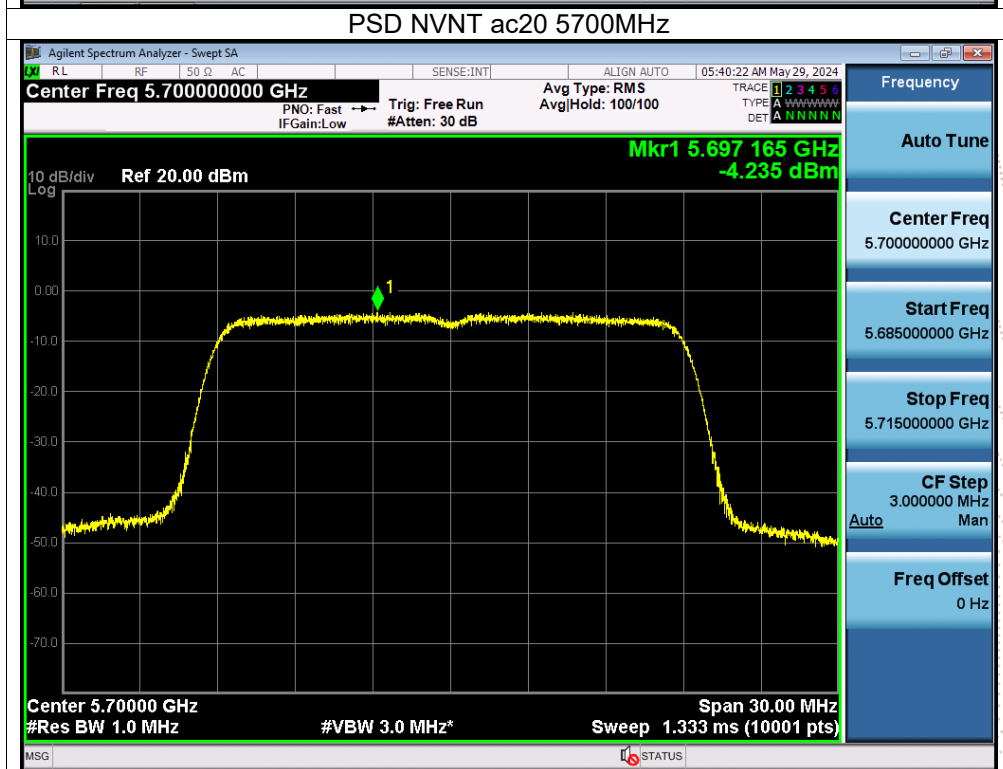
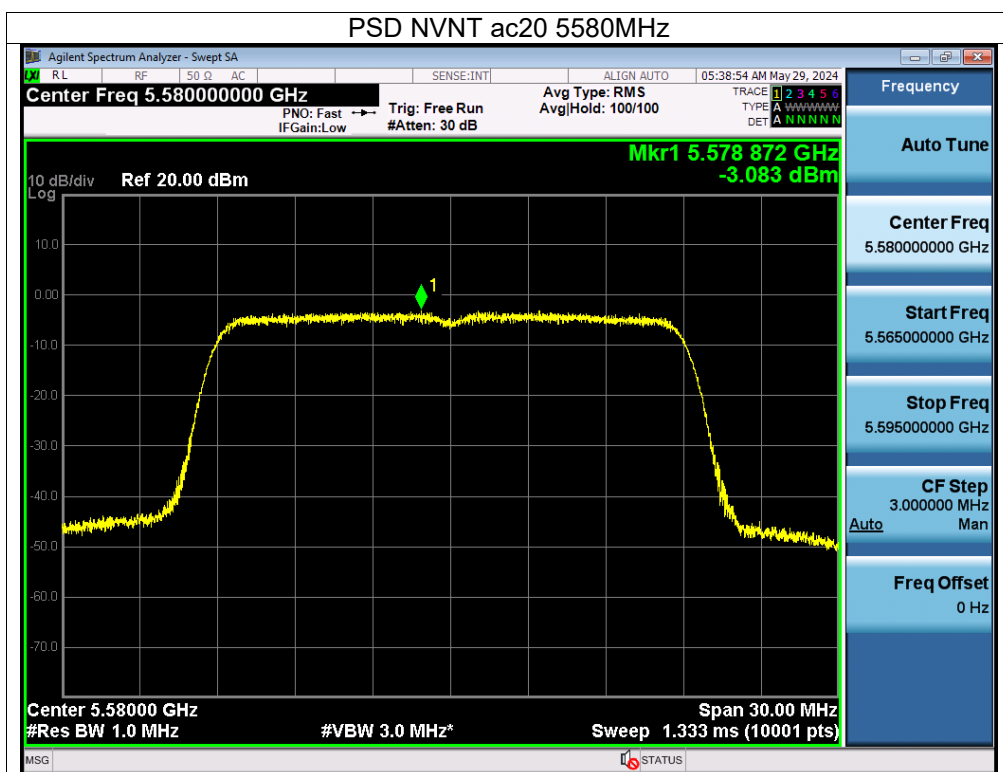


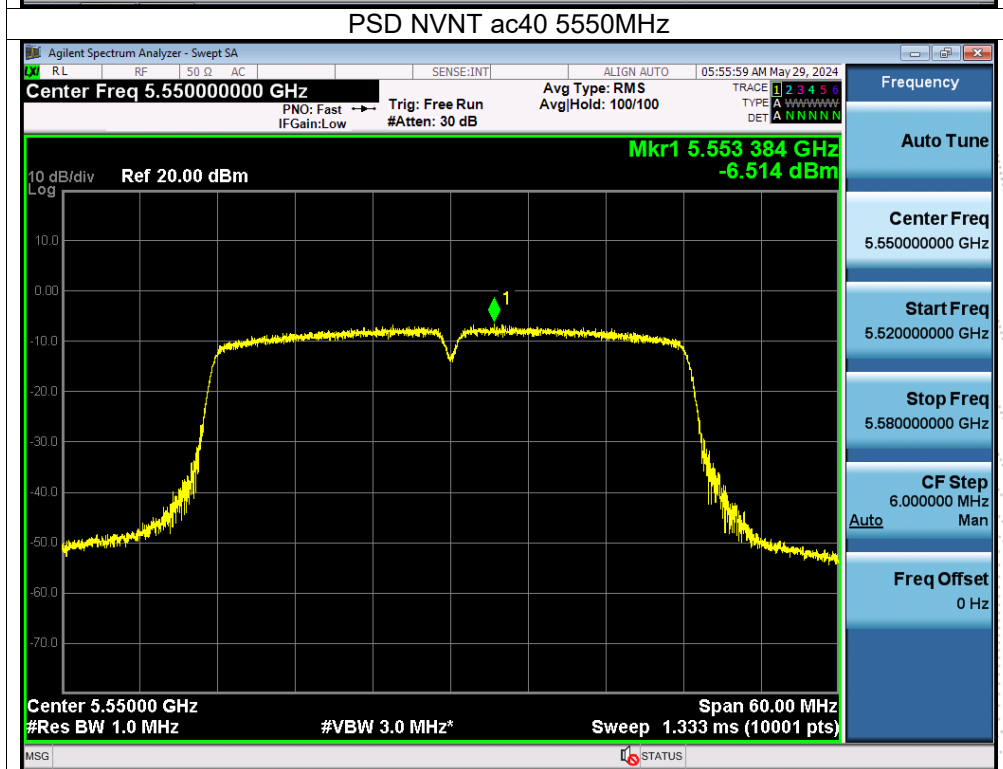
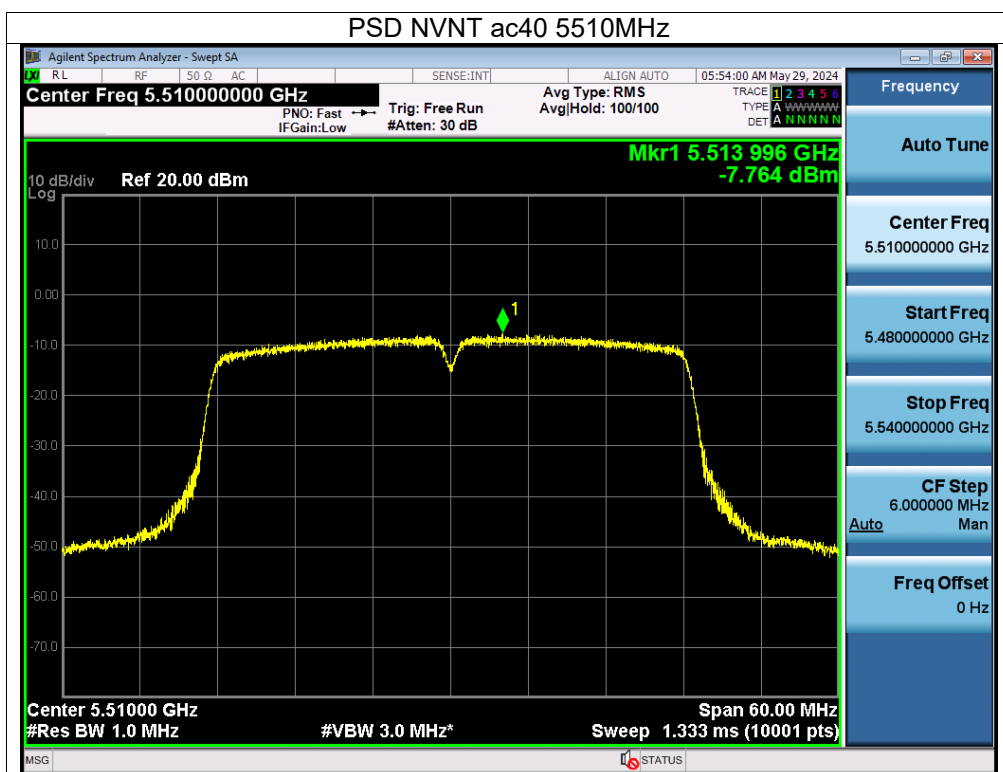


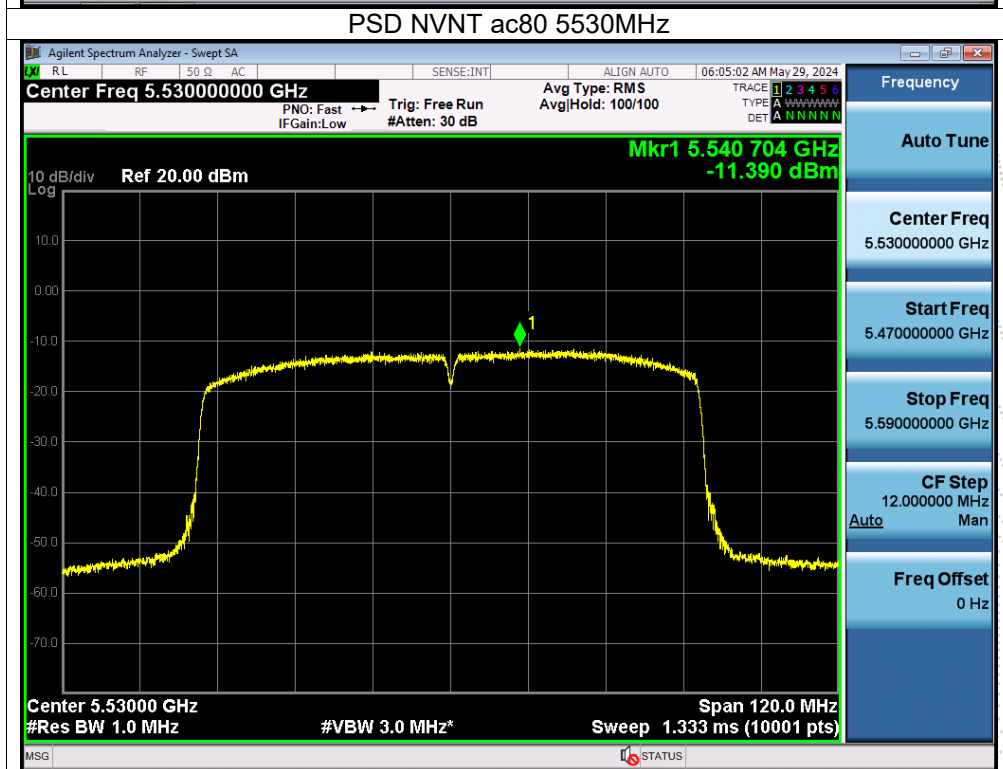
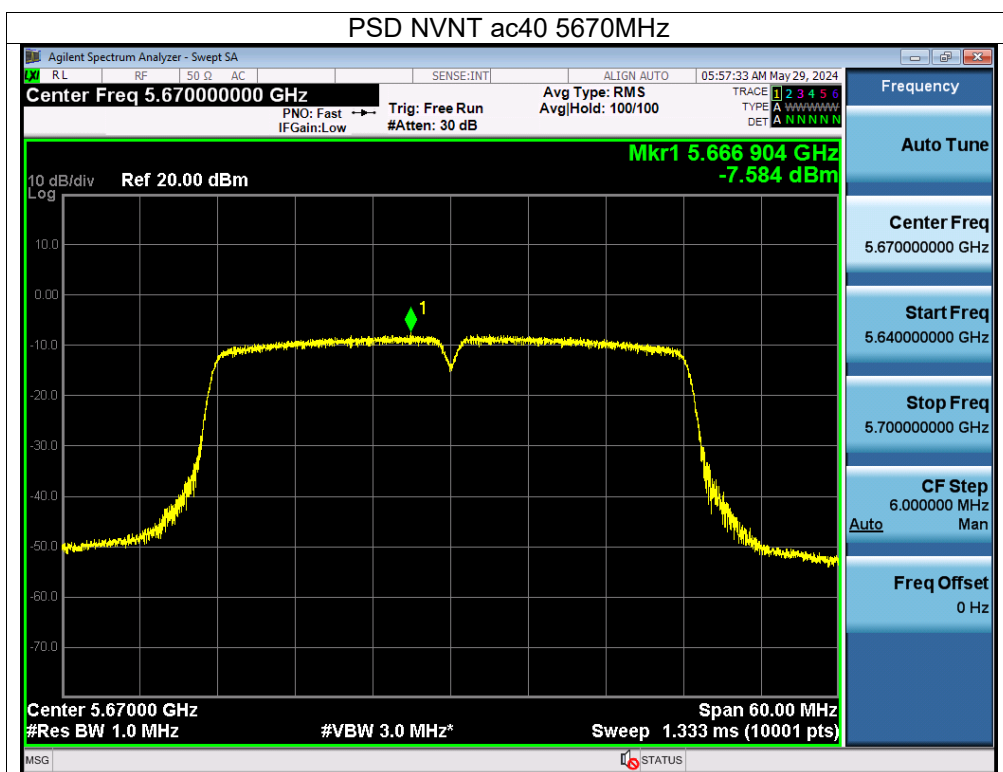












Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.3V
Test Mode:	(5745-5825MHz)		

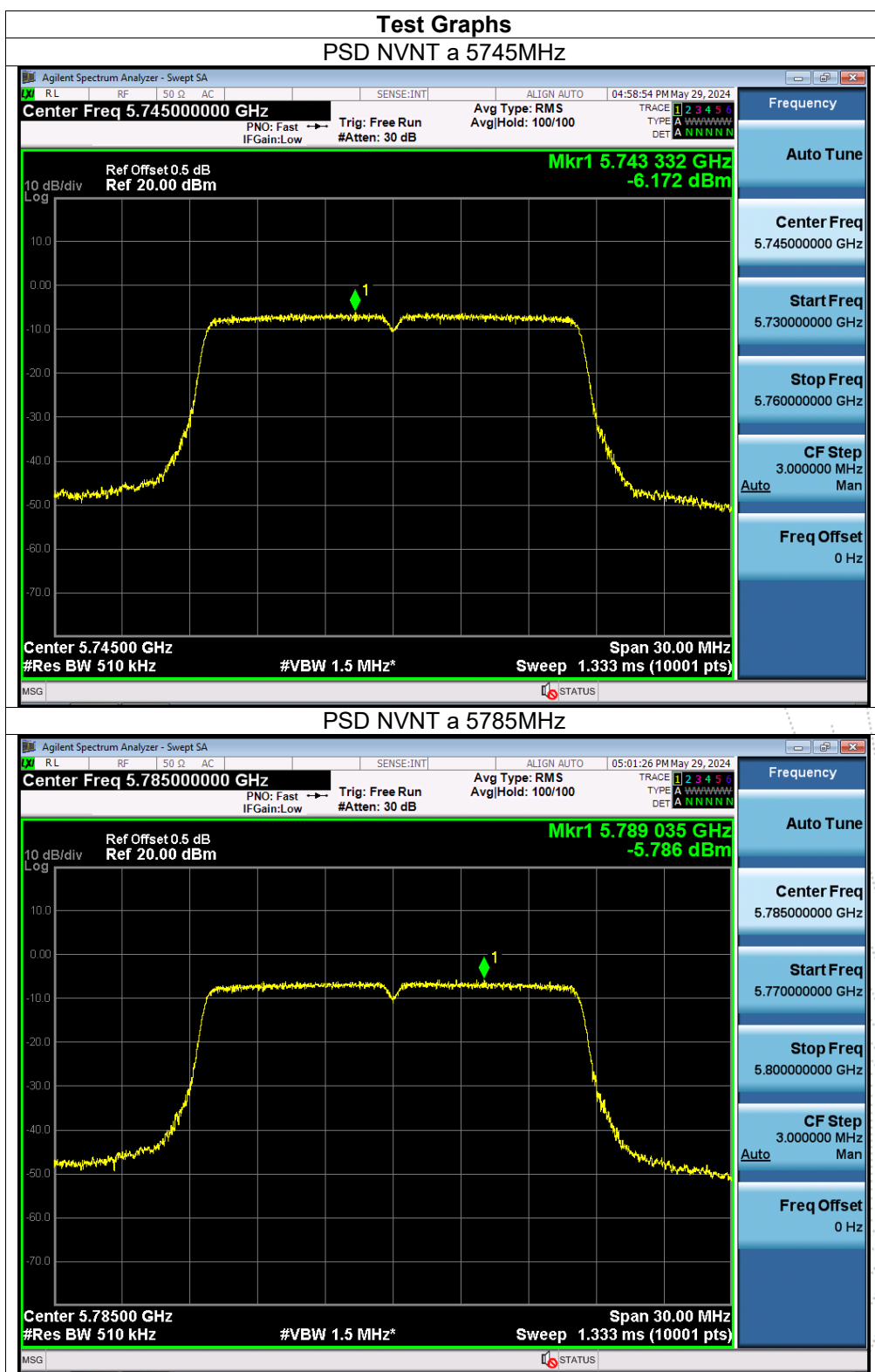
Condi- tion	Mode	Fre- quency (MHz)	Conducted PSD (dBm/510KHz)		Conducted PSD (dBm/500KHz)		Total (dBm/ 500KHz)	Limit (dBm/ 500KHz)	Verdict
			Ant A	Ant B	Ant A	Ant B			
NVNT	a	5745	-6.17	-7.71	-6.256	-7.796	/	30	Pass
NVNT	a	5785	-5.79	-8.11	-5.876	-8.196	/	30	Pass
NVNT	a	5825	-5.77	-8.16	-5.856	-8.246	/	30	Pass
NVNT	n20	5745	-7.54	-9.18	-7.626	-9.266	-5.36	27.99	Pass
NVNT	n20	5785	-8.26	-9.92	-8.346	-10.006	-6.09	27.99	Pass
NVNT	n20	5825	-8.17	-9.91	-8.256	-9.996	-6.03	27.99	Pass
NVNT	n40	5755	-12.2	-13.25	-12.286	-13.336	-9.77	27.99	Pass
NVNT	n40	5795	-12.27	-13.5	-12.356	-13.586	-9.92	27.99	Pass
NVNT	ac20	5745	-8.52	-9.27	-8.606	-9.356	-5.95	27.99	Pass
NVNT	ac20	5785	-8.4	-9.68	-8.486	-9.766	-6.07	27.99	Pass
NVNT	ac20	5825	-7.91	-9.68	-7.996	-9.766	-5.78	27.99	Pass
NVNT	ac40	5755	-12.13	-12.74	-12.216	-12.826	-9.50	27.99	Pass
NVNT	ac40	5795	-12.1	-13.92	-12.186	-14.006	-9.99	27.99	Pass
NVNT	ac80	5775	-16.94	-17.97	-17.026	-18.056	-14.50	27.99	Pass
Note: Correction Factor = $10\log(500\text{KHz}/\text{RBW in measurement}) = -0.086$									

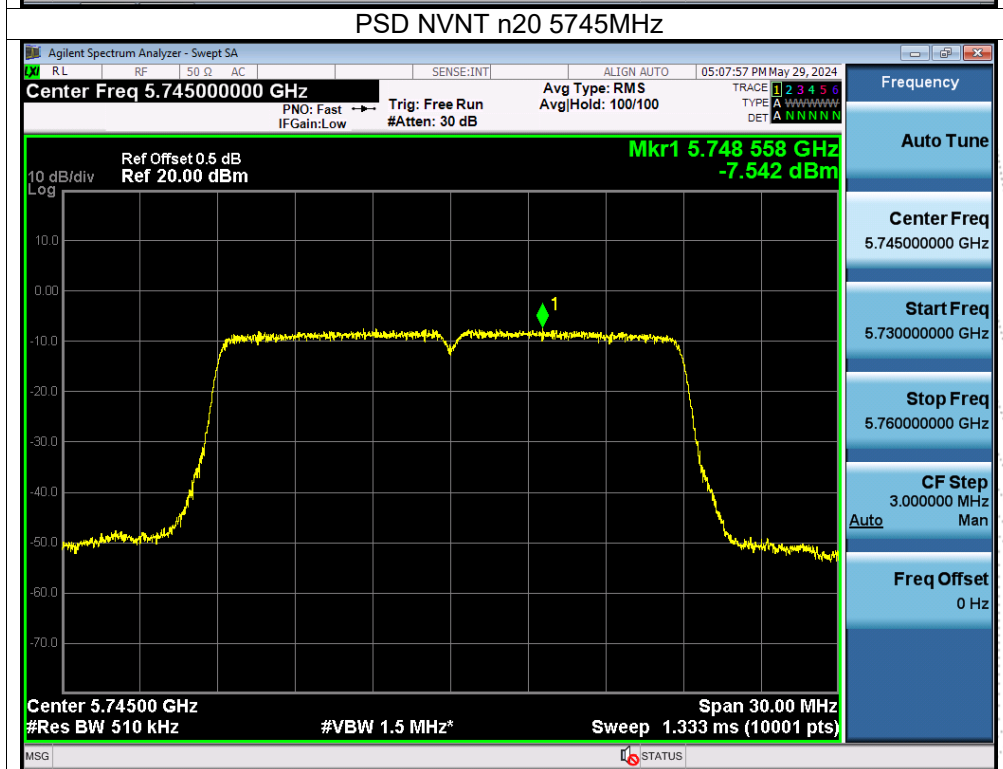
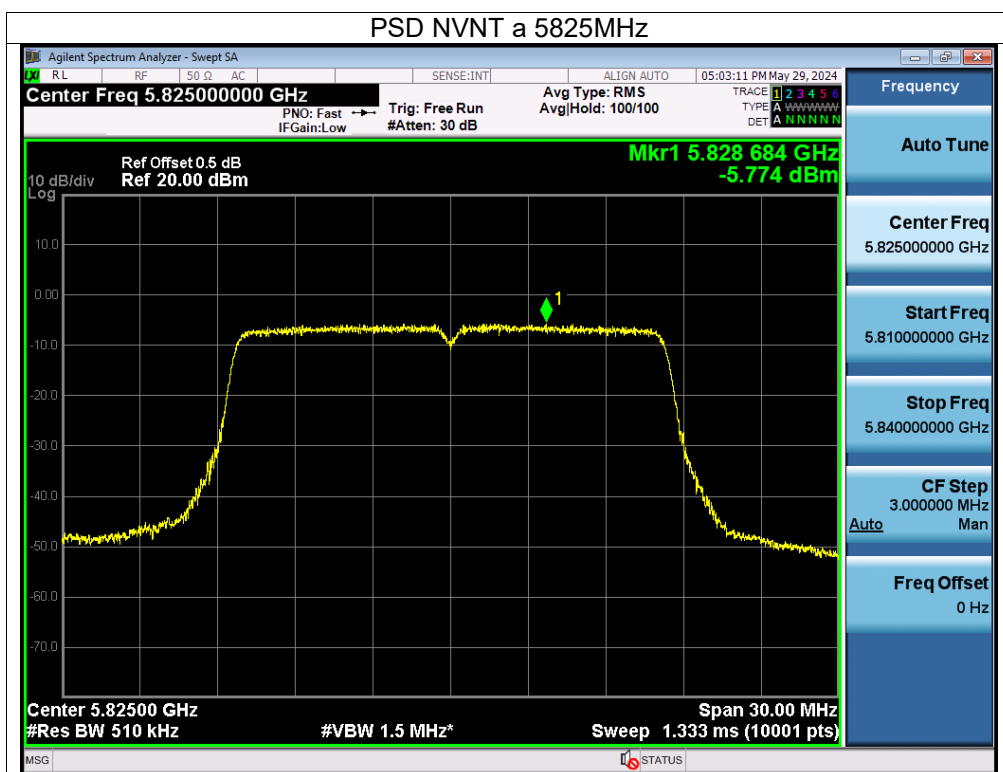
Note:

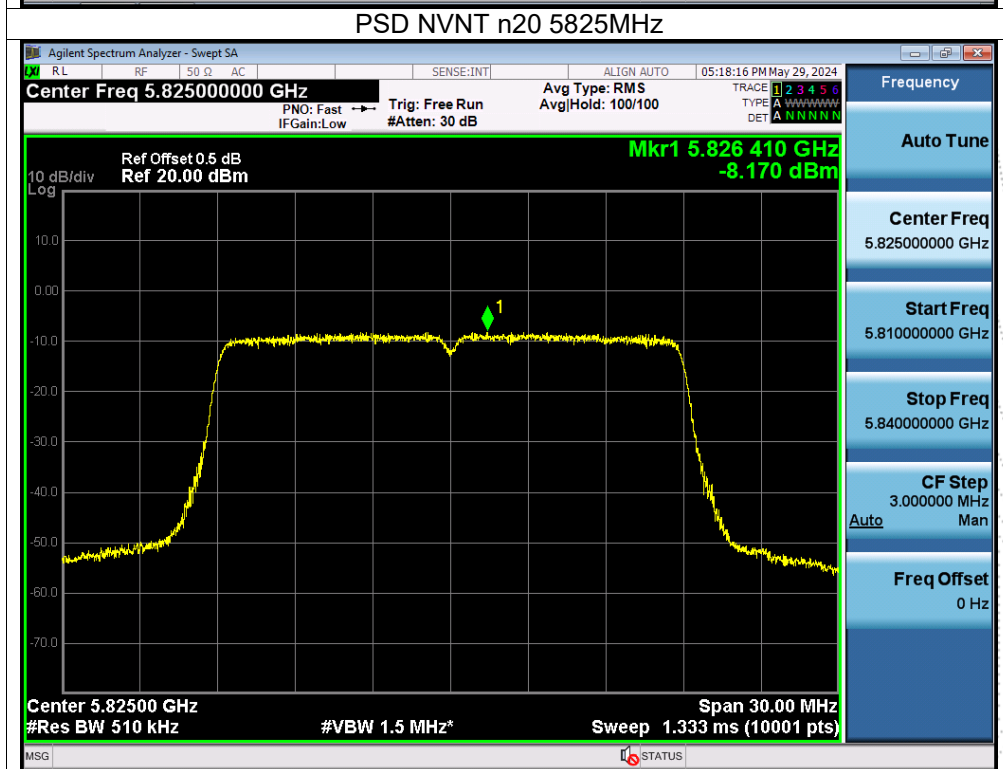
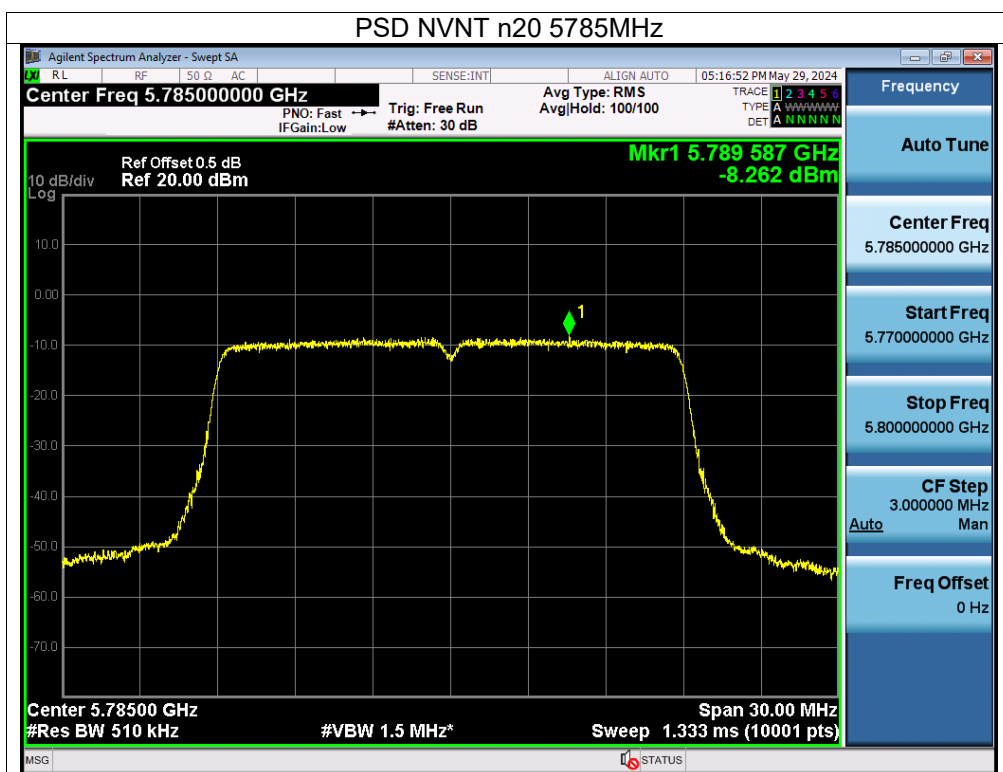
Antenna A gain: 5.0 dBi, Antenna B gain: 3.9 dBi, Directional gain=[GainANT + 10 log(NANT/NSS) dBi]
=8.01 dbi>6dbi

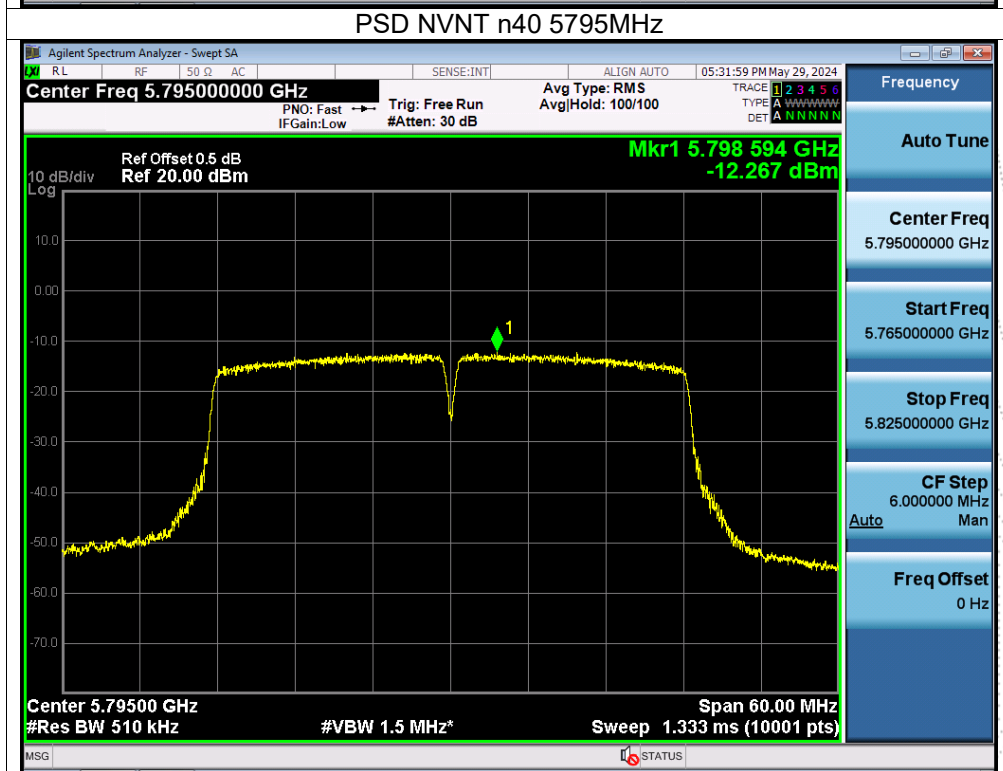
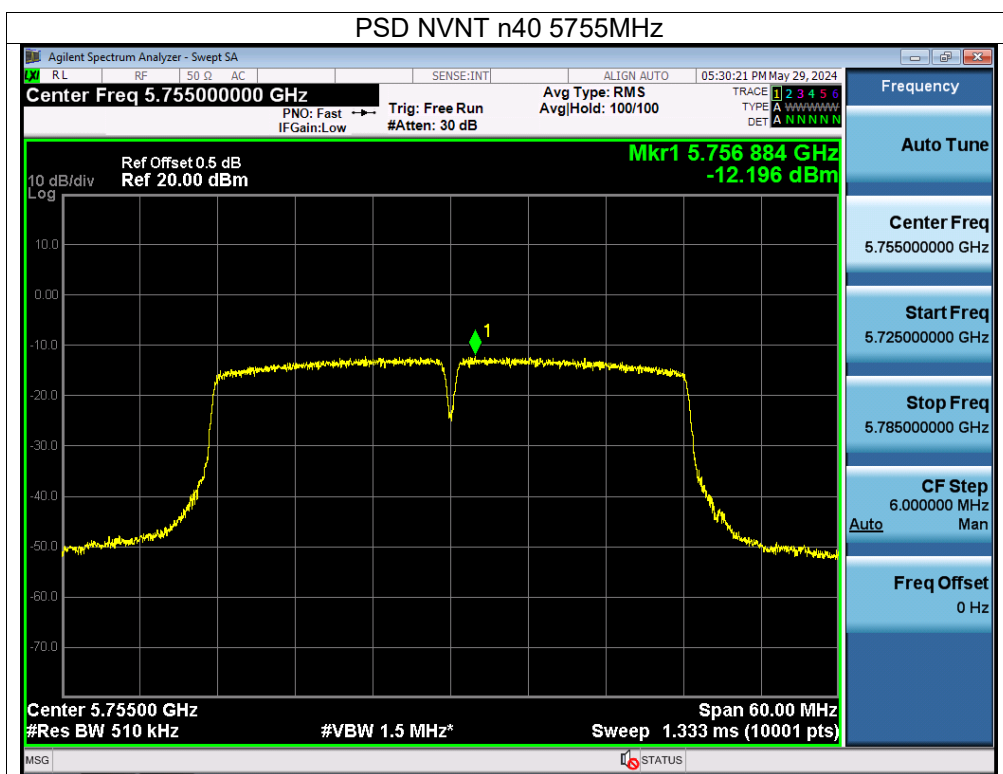
EIRP Limit=30-(8.01-6)=27.99 dbi

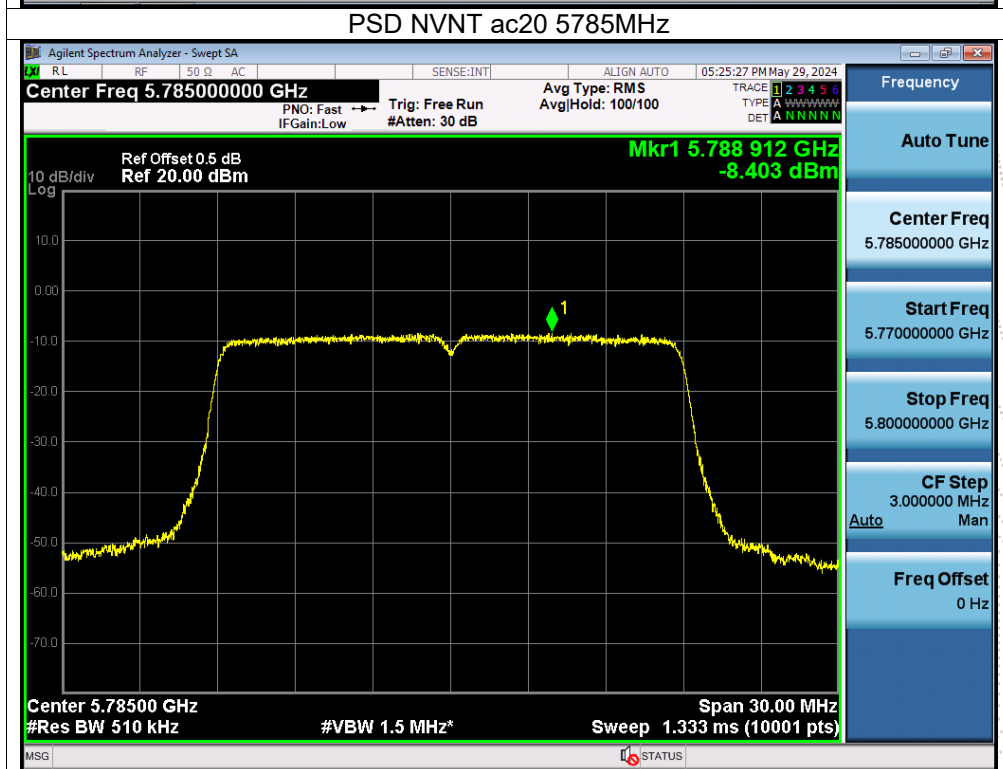
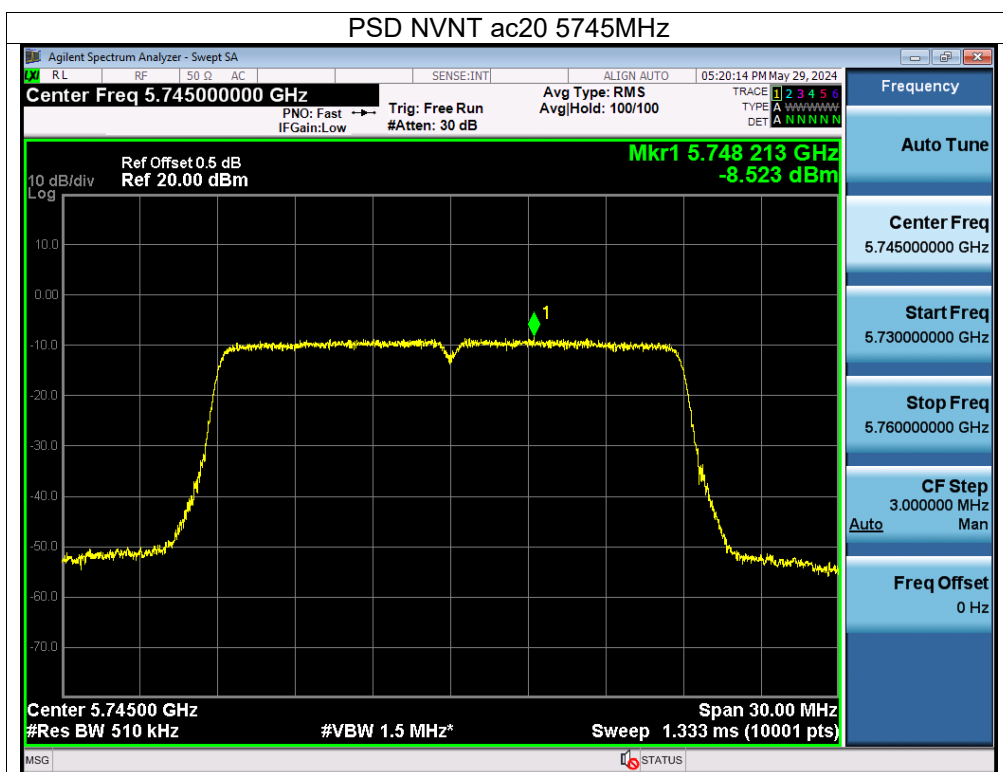
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

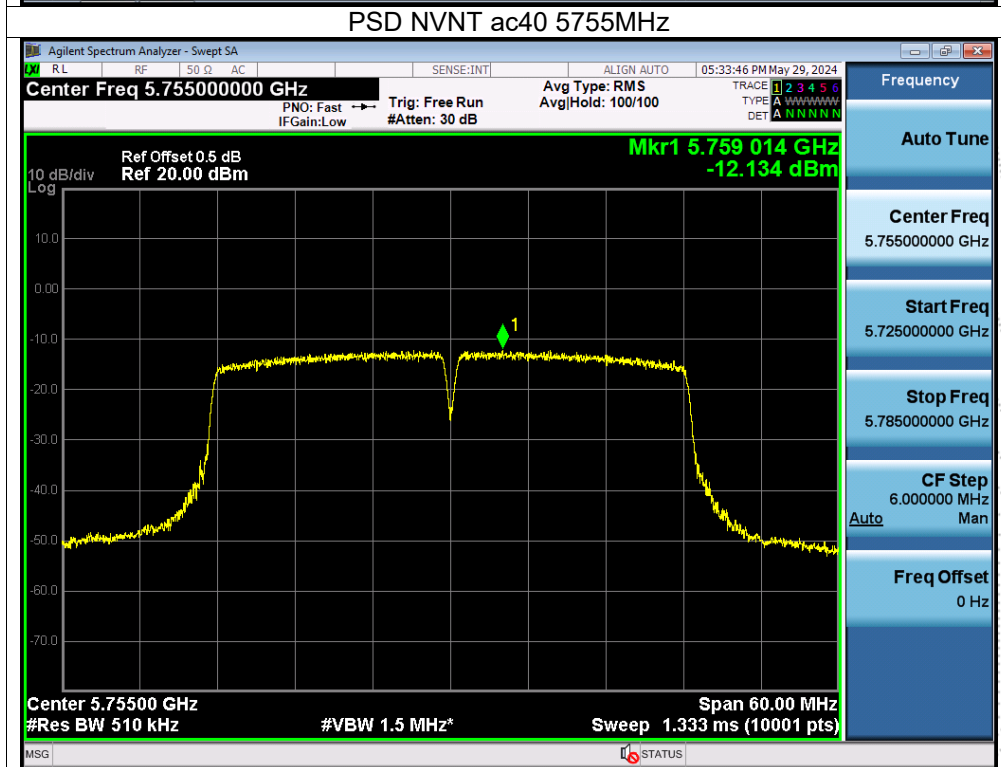
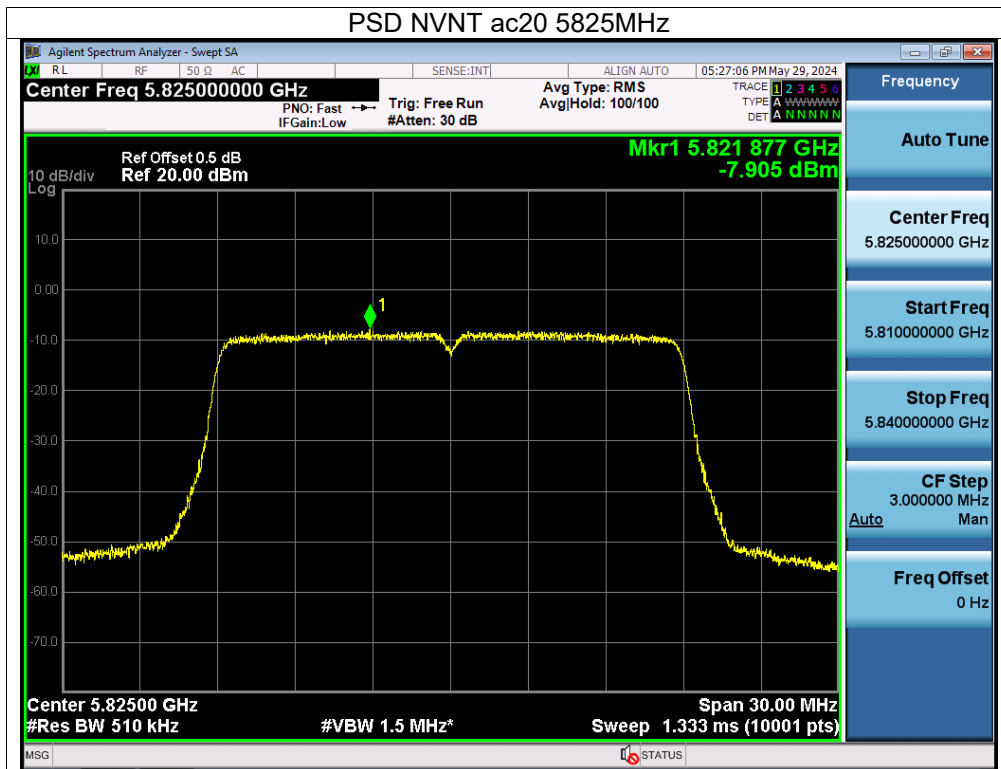


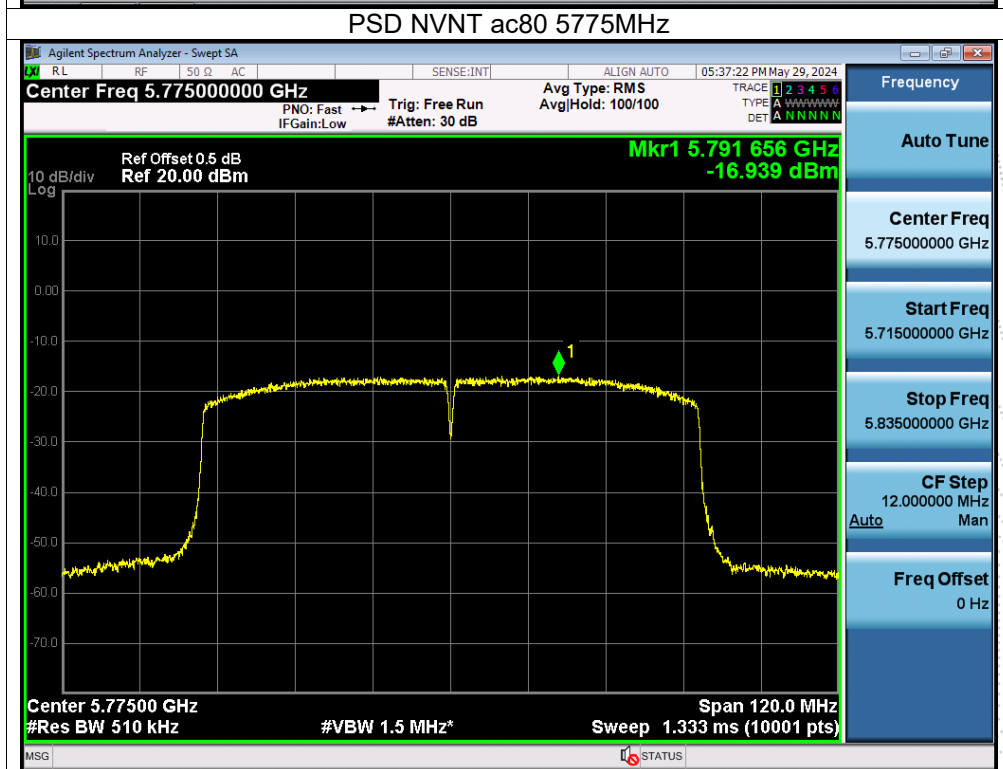
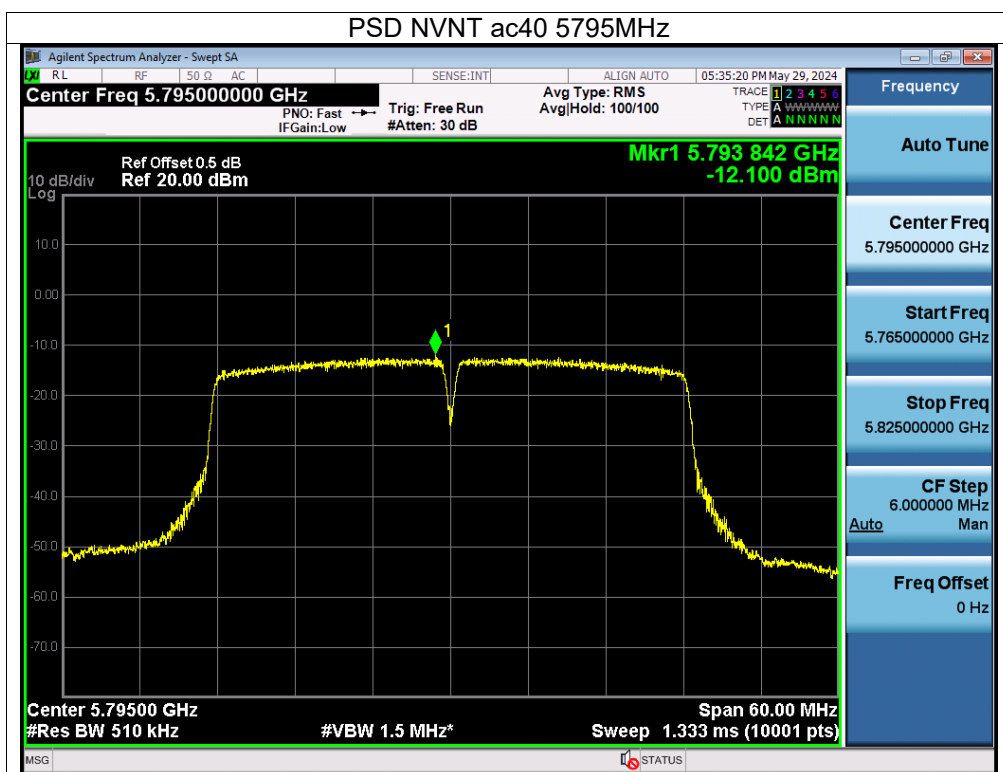






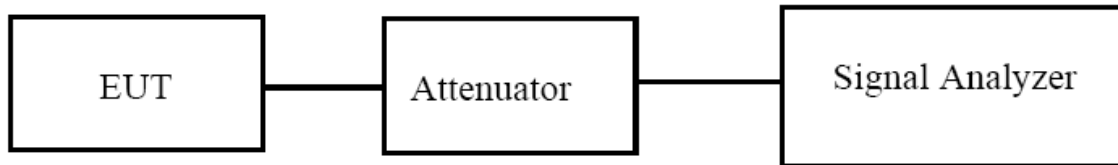






9. 26dB & 6dB & 99% Emission Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

(1) For the band 5.15-5.25 GHz.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, 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.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, 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.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. 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.

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%.

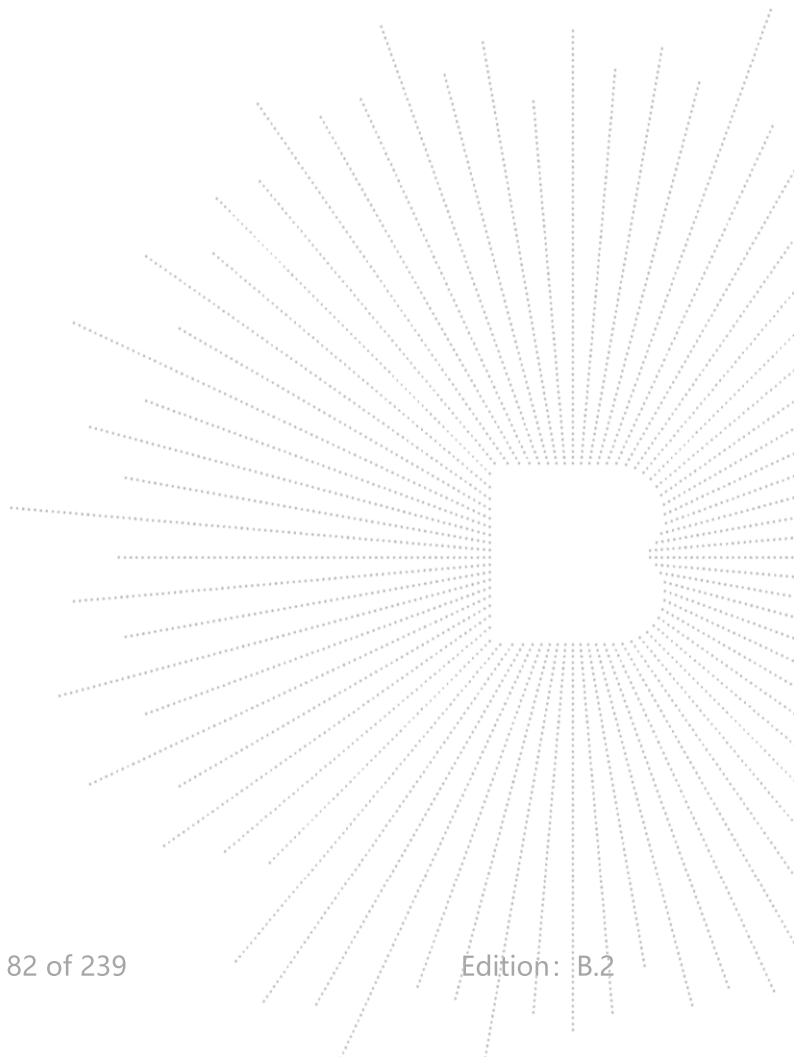
The following procedure shall be used for measuring (99 %) power bandwidth:

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.

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

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 3.3V
Test Mode:	(5180-5240MHz)		

Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)		99% OBW (MHz)		Verdict
			Ant A	Ant B	Ant A	Ant B	
NVNT	a	5180	18.305	18.374	16.339	16.355	Pass
NVNT	a	5200	18.225	18.38	16.331	16.364	Pass
NVNT	a	5240	18.318	18.343	16.319	16.351	Pass
NVNT	n20	5180	19.412	19.063	17.541	17.542	Pass
NVNT	n20	5200	19.385	18.949	17.542	17.543	Pass
NVNT	n20	5240	19.323	19.069	17.535	17.574	Pass
NVNT	n40	5190	40.953	41.158	36.02	35.984	Pass
NVNT	n40	5230	40.689	40.587	36.022	35.98	Pass
NVNT	ac20	5180	19.333	19.128	17.549	17.555	Pass
NVNT	ac20	5200	19.492	19.123	17.553	17.568	Pass
NVNT	ac20	5240	19.337	18.99	17.544	17.572	Pass
NVNT	ac40	5190	40.821	40.469	35.98	36.006	Pass
NVNT	ac40	5230	40.652	41.087	36.021	35.985	Pass
NVNT	ac80	5210	80.779	80.544	74.619	74.603	Pass

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

