

TEST REPORT

Report No.: BCTC2208142034-2E

Applicant: SUZHOU AUDITORYWORKS CO.,LTD

Product Name: WIFI Module

Model/Type
reference: WC1XR2511

Tested Date: 2022-08-08 to 2022-08-22

Issued Date: 2022-08-22

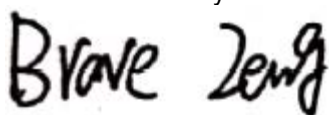
Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AU5G-WC1XR2511

Product Name: WIFI Module
Trademark: N/A
Model/Type Ref.: WC1XR2511
Prepared For: SUZHOU AUDITORYWORKS CO.,LTD
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Manufacturer: SUZHOU AUDITORYWORKS CO.,LTD
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Sample Received Date: 2022-08-08
Sample tested Date: 2022-08-08 to 2022-08-22
Issue Date: 2022-08-22
Report No.: BCTC2208142034-2E
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

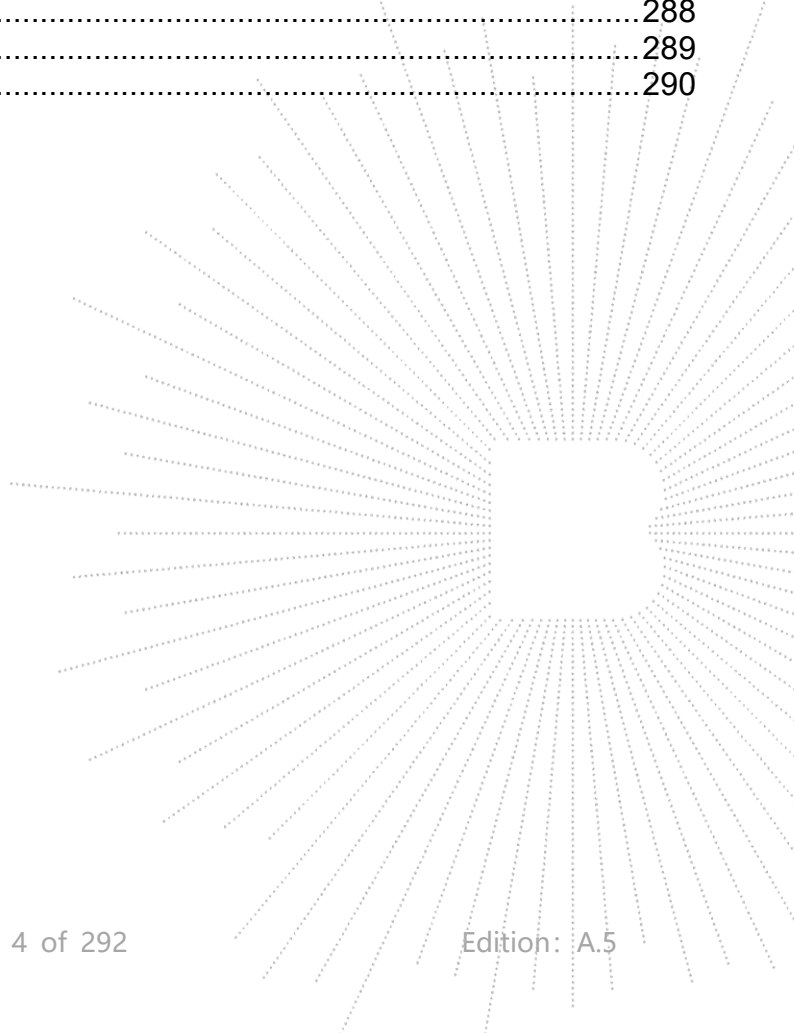
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2208142034-2E	2022-08-22	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	2.1051, 15.407 b	PASS
7	Power Spectral Density	15.407 a	PASS
8	Spurious Emissions at Antenna Terminals	2.1051, 15.407 b	PASS
9	Antenna Requirement	15.203	PASS

3. Measurement Uncertainty

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

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

4. Product Information And Test Setup

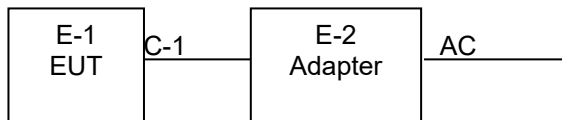
4.1 Product Information

Model/Type Ref.:	WC1XR2511
Model differences:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
IEEE 802.11 WLAN Mode Supported	802.11a/n (20MHz channel bandwidth) 802.11n (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); 5530-5610MHz 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:	PCB antenna*2
Antenna Gain:	5.1G: Antenna A & B: 3.90 dBi 5.3G: Antenna A & B: 3.90 dBi 5.6G: Antenna A & B: 3.90 dBi 5.8G: Antenna A & B: 3.90 dBi
Ratings:	DC 5V

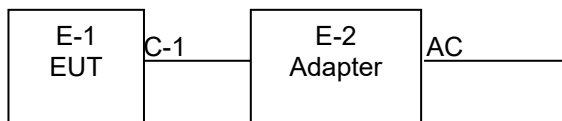
4.2 Test Setup Configuration

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

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	WIFI Module	N/A	WC1XR2511	N/A	EUT
E-2	PC	Lenovo	N/A	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.3M	DC cable unshielded

Notes:

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

4.4 Channel List

(U-NII-1) 5180MHz-5240MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
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 (MHz)
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 (MHz)
20MHz	100	5500	105	5520
	108	5540	112	5560
	116	5580	120	5600
	124	5620	128	5640
	132	5660	136	5680
	140	5700		
40MHz	102	5510	110	5550
	118	5590	126	5630
	134	5670	142	5710
80MHz	106	5530	122	5610
(U-NII-3) 5745MHz-5825MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
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 118/CH134 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/ CH 58/ CH 106/ CH 122/ CH 155
Mode 4	Link Mode

Conducted Emission	
Final Test Mode	Description
Mode 4	Link Mode

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

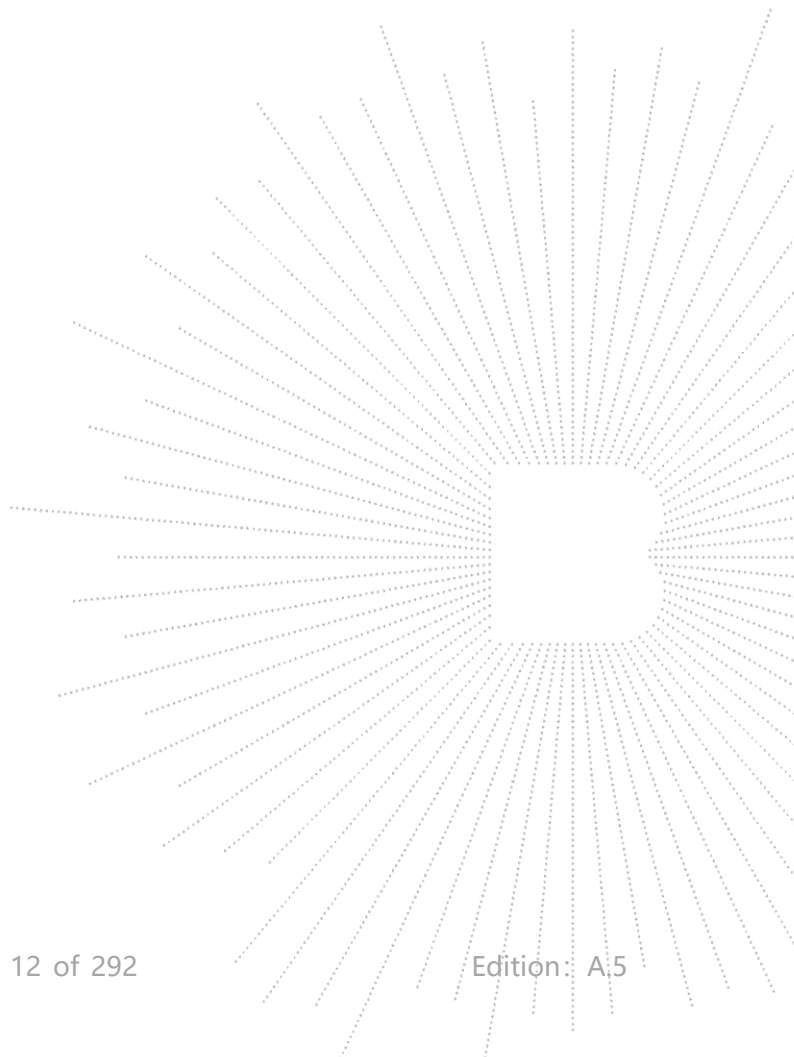
4.7 Antenna

5.1G&5.3G&5.6G&5.8G

Ant.	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
A	N/A	N/A	PCB antenna	3.90	N/A
B	N/A	N/A	PCB antenna	3.90	N/A

EUT has two PCB antennas with Max gain GANT 3.90dBi on every antenna, CDD device with one spatial streams, also can operate 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 6.91 dBi
- 2)For power measurements,
 The Array gain=0 for $\text{NANT} \leq 4$,
 So the directional gain for Power measurements is 3.90dBi



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
IC Registered No.: 23583

5.2 Test Instrument Used

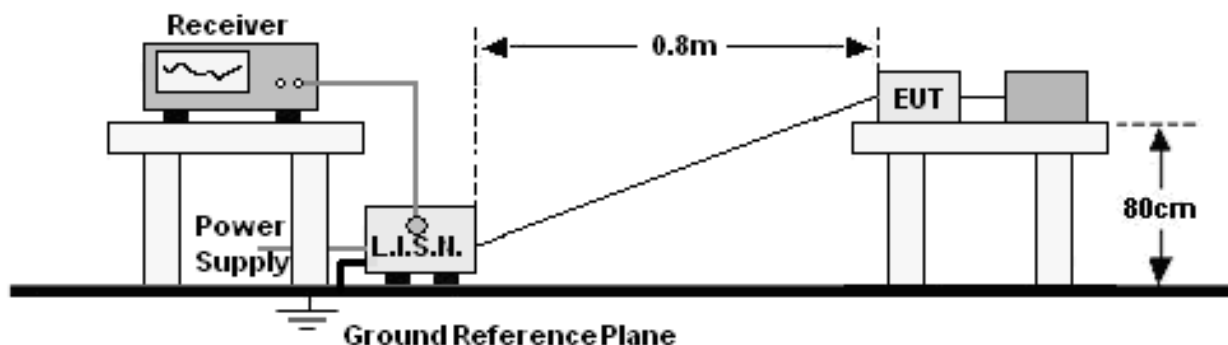
Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
LISN	R&S	ENV216	101375	May 24, 2022	May 23, 2023
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB DC-6GHz	1650	May 24, 2022	May 23, 2023

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	\	May 24, 2022	May 23, 2023
Power Sensor (AV)	Keysight	E9300A	\	May 24, 2022	May 23, 2023
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	\	May 24, 2022	May 23, 2023

Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
Receiver	R&S	ESRP	101154	May 24, 2022	May 23, 2023
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 24, 2022	May 23, 2023
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 24, 2022	May 23, 2023
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 26, 2022	May 25, 2023
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 06, 2022	Jun. 05, 2023
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 06, 2022	Jun. 05, 2023
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 26, 2022	May 25, 2023
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023
Power Metter	Keysight	E4419	\	May 26, 2022	May 25, 2023
Power Sensor (AV)	Keysight	E9300A	\	May 26, 2022	May 25, 2023
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 26, 2022	May 25, 2023
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	\	May 26, 2022	May 25, 2023
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

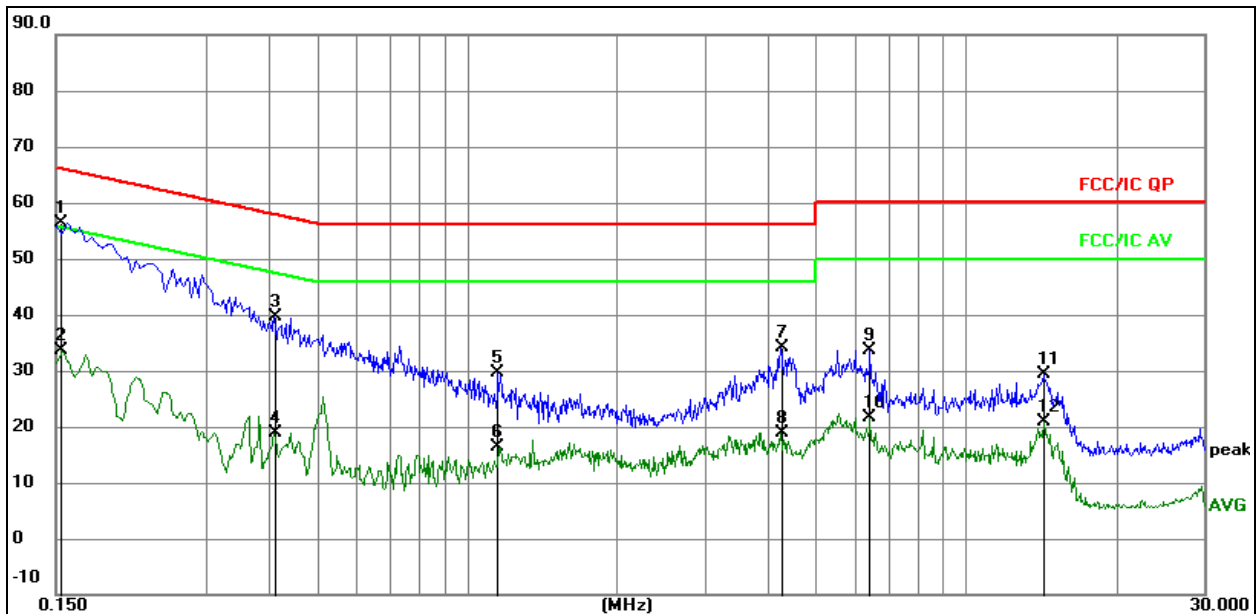
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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 :	DC 5V from PC
Test Mode:	Mode 1	Polarization :	L

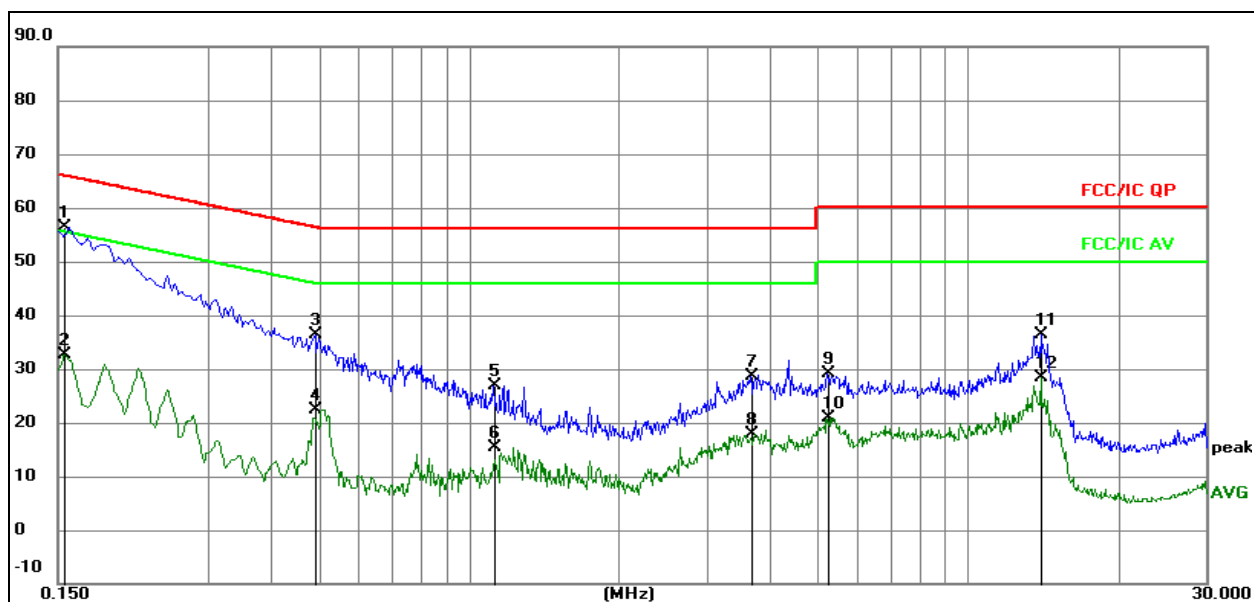


Remark:

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	*	0.1539	36.79	19.68	56.47	65.79	-9.32	QP
2		0.1539	13.89	19.68	33.57	55.79	-22.22	AVG
3		0.4105	19.99	19.74	39.73	57.64	-17.91	QP
4		0.4105	-0.92	19.74	18.82	47.64	-28.82	AVG
5		1.1534	9.91	19.78	29.69	56.00	-26.31	QP
6		1.1534	-3.42	19.78	16.36	46.00	-29.64	AVG
7		4.2466	13.91	20.11	34.02	56.00	-21.98	QP
8		4.2466	-1.22	20.11	18.89	46.00	-27.11	AVG
9		6.4198	13.59	20.16	33.75	60.00	-26.25	QP
10		6.4198	1.55	20.16	21.71	50.00	-28.29	AVG
11		14.2882	9.14	20.28	29.42	60.00	-30.58	QP
12		14.2882	0.63	20.28	20.91	50.00	-29.09	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	DC 5V from PC
Test Mode:	Mode 1	Polarization :	N


Remark:

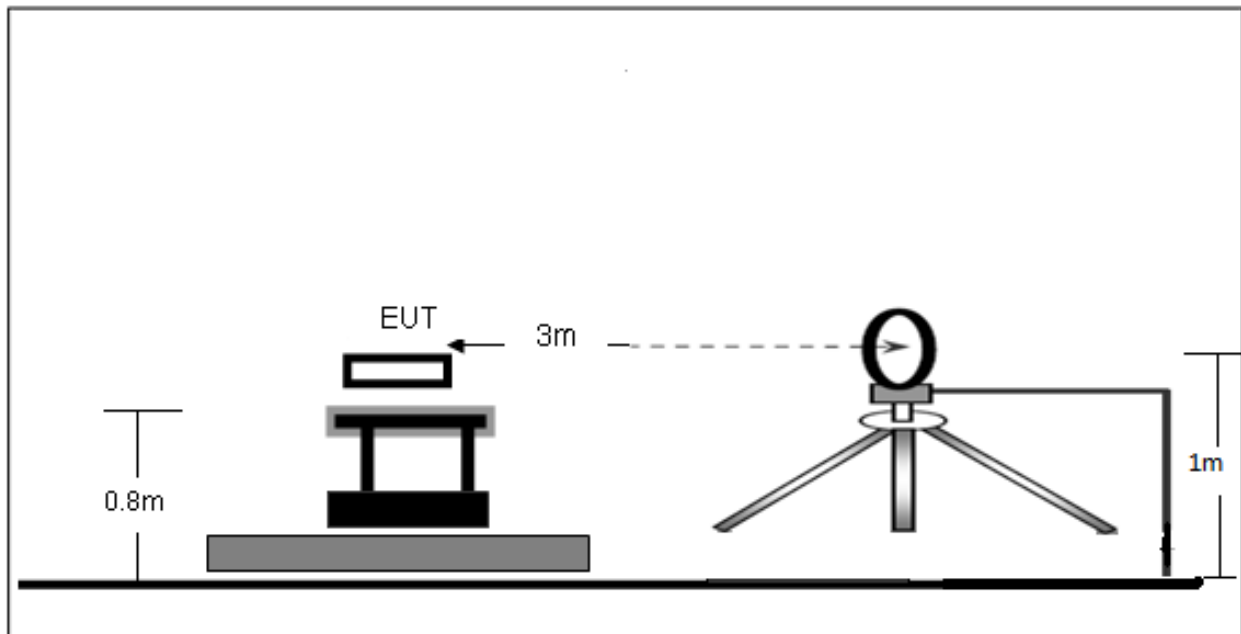
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz		dB	dBuV	dBuV	dB	
1	*	0.1545	36.61	19.68	56.29	65.75	-9.46	QP
2		0.1545	12.99	19.68	32.67	55.75	-23.08	AVG
3		0.4920	16.74	19.72	36.46	56.13	-19.67	QP
4		0.4920	2.74	19.72	22.46	46.13	-23.67	AVG
5		1.1220	7.12	19.77	26.89	56.00	-29.11	QP
6		1.1220	-4.48	19.77	15.29	46.00	-30.71	AVG
7		3.6645	8.63	20.06	28.69	56.00	-27.31	QP
8		3.6645	-2.27	20.06	17.79	46.00	-28.21	AVG
9		5.2305	8.97	20.13	29.10	60.00	-30.90	QP
10		5.2305	0.78	20.13	20.91	50.00	-29.09	AVG
11		14.0415	16.00	20.28	36.28	60.00	-23.72	QP
12		14.0415	8.15	20.28	28.43	50.00	-21.57	AVG

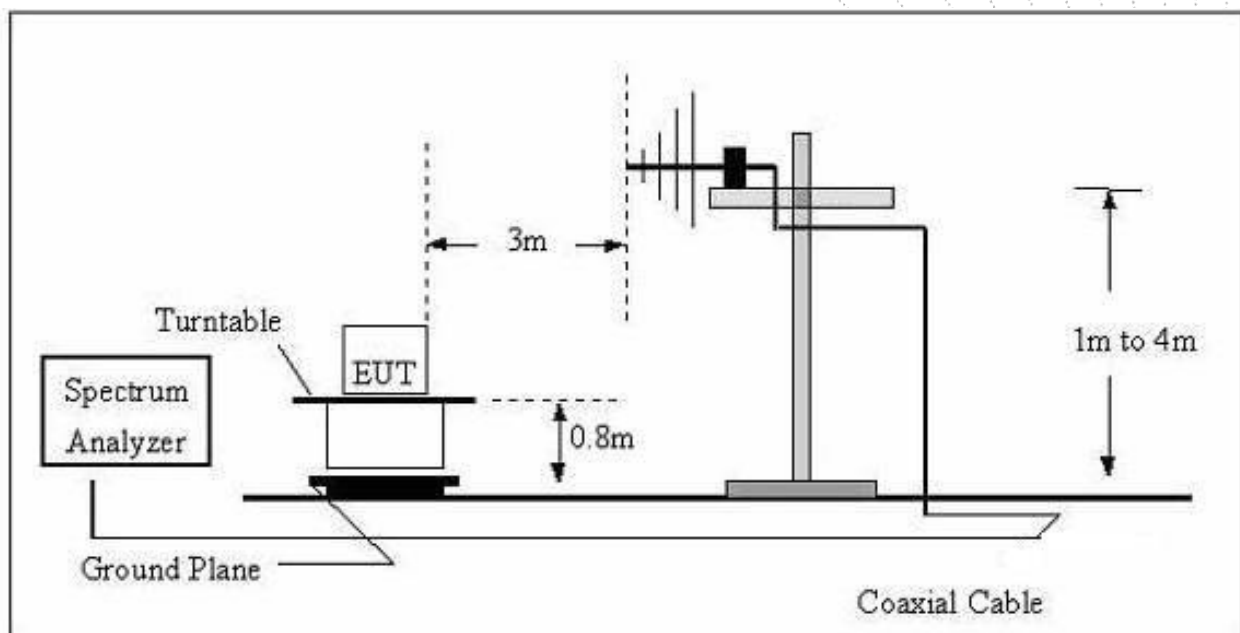
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

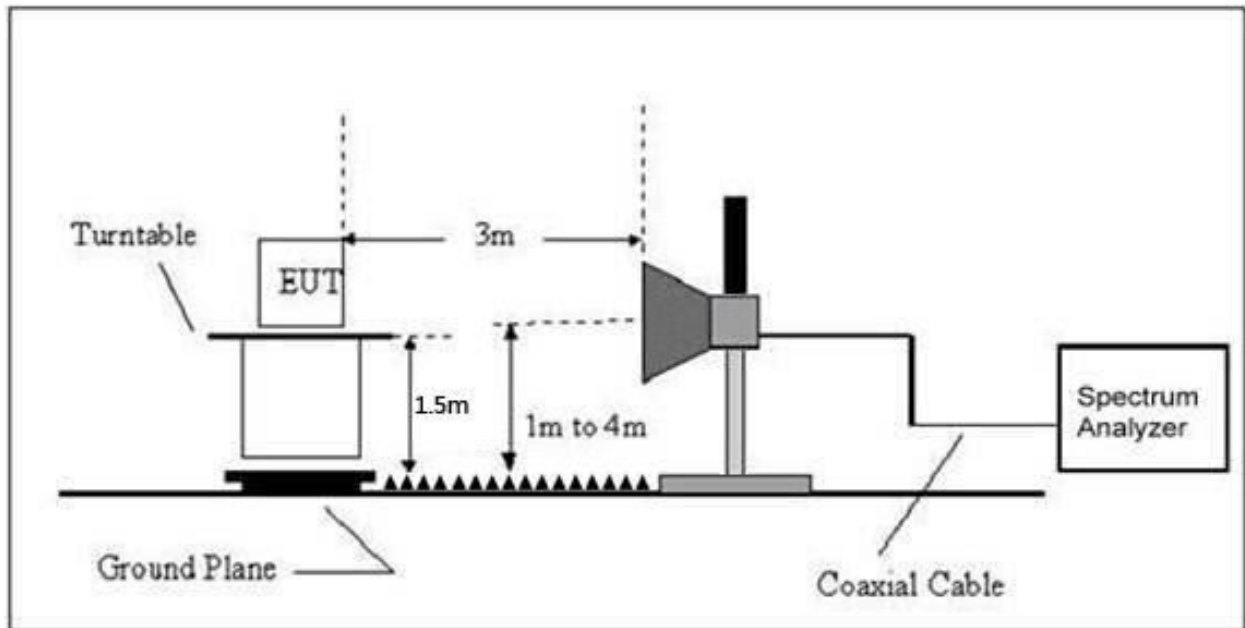
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



7.2 Limit

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

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

Limits Of Radiated Emission Measurement (Above 1000MHz)

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

Notes:

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

7.3 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205.

It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

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

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

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

Note:

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

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

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

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

7.4 EUT Operating Conditions

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

7.5 Test Result

Below 30MHz

Temperature:	26°C	Relative Humidity:	24%
Pressure:	101 kPa	Test Voltage :	DC 5V from PC
Test Mode:	Mode 1	Polarization:	--

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

Note:

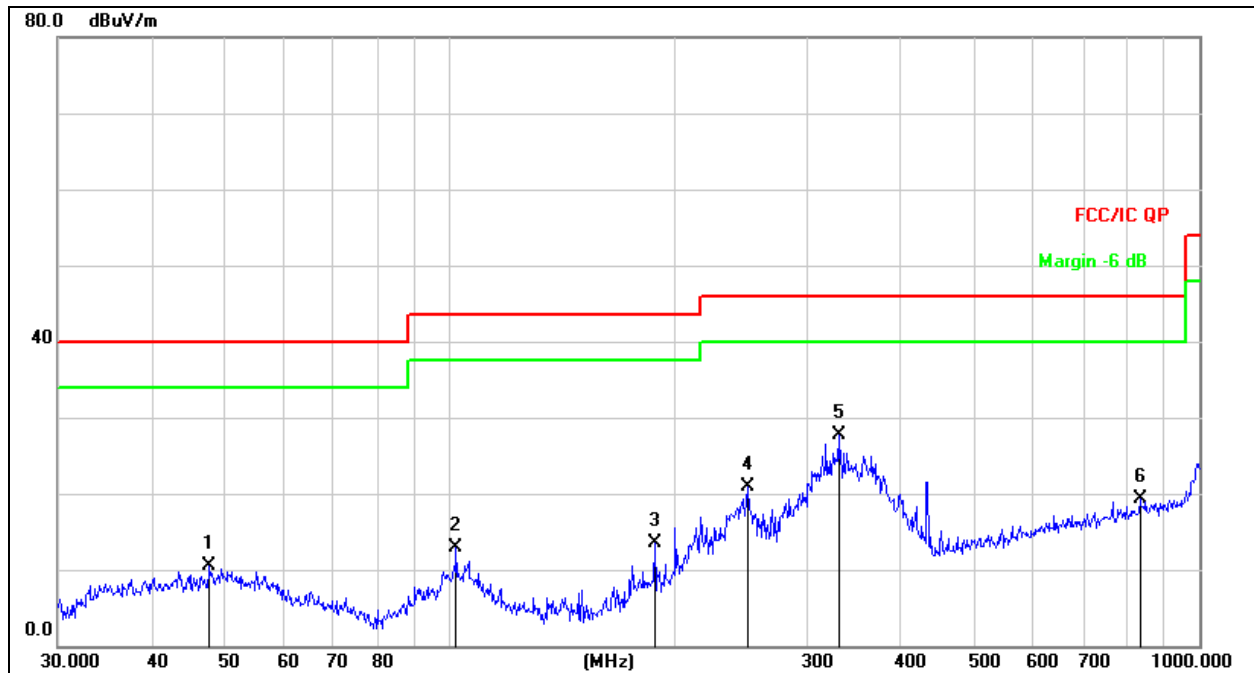
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	DC 5V from PC
Test Mode:	Mode 1	Polarization :	Horizontal

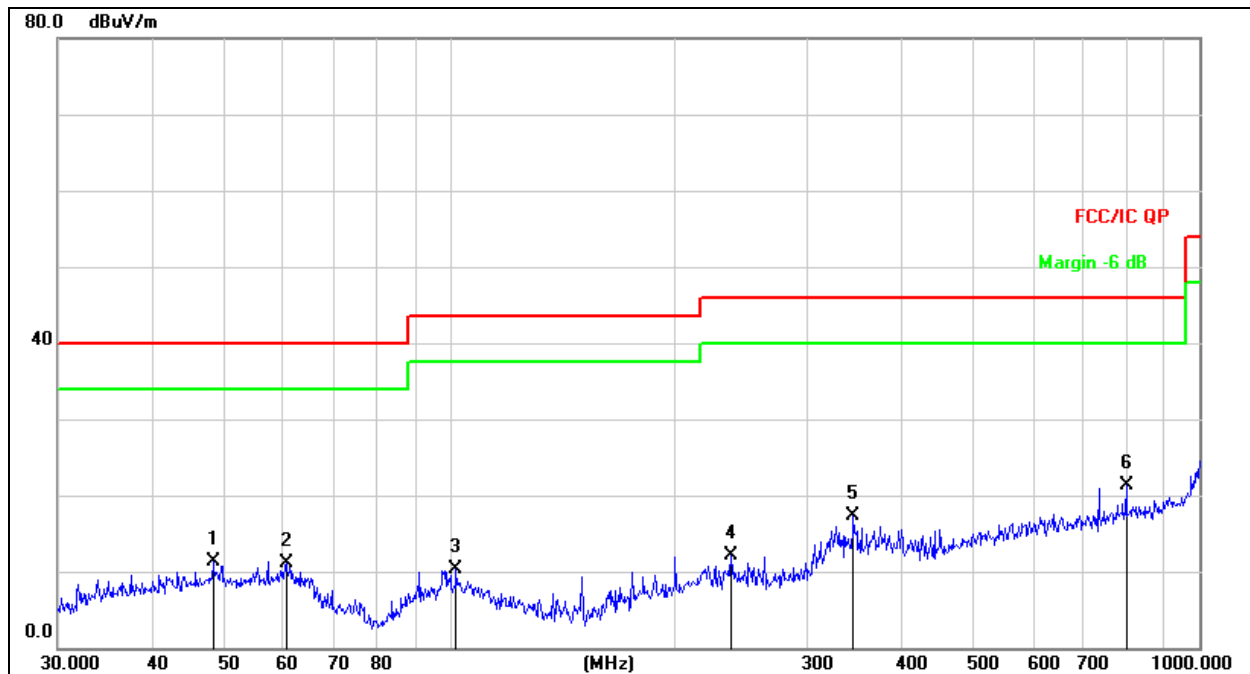


Remark:

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	47.8260	27.00	-16.41	10.59	40.00	-29.41	QP
2	102.0014	31.19	-18.34	12.85	43.50	-30.65	QP
3	187.7529	32.46	-18.98	13.48	43.50	-30.02	QP
4	250.3011	37.27	-16.43	20.84	46.00	-25.16	QP
5 *	330.1949	42.05	-14.40	27.65	46.00	-18.35	QP
6	833.3170	25.60	-6.30	19.30	46.00	-26.70	QP

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	DC 5V from PC
Test Mode:	Mode 1	Polarization :	Vertical



Remark:

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

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	48.3318	27.69	-16.35	11.34	40.00	-28.66	QP
2	60.4919	28.89	-17.83	11.06	40.00	-28.94	QP
3	102.0014	28.74	-18.34	10.40	43.50	-33.10	QP
4	237.4760	28.99	-16.86	12.13	46.00	-33.87	QP
5	345.5952	31.09	-13.86	17.23	46.00	-28.77	QP
6 *	798.9797	27.83	-6.56	21.27	46.00	-24.73	QP

Between 1GHz – 40GHz

Test Mode :	TX(5.1G) - 802.11a
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.183	60.73	5.94	35.40	44.00	58.07	68.2	-10.13	PK
V	4434.183	43.10	5.94	35.40	44.00	40.44	54	-13.56	AV
V	10360.048	62.64	8.46	39.75	44.50	66.35	68.2	-1.85	PK
V	10360.048	43.97	8.46	39.75	44.50	47.68	54	-6.32	AV
V	15540.038	64.85	10.12	38.80	44.10	69.67	74	-4.33	PK
V	15540.038	43.06	10.12	38.80	42.70	49.28	54	-4.72	AV
H	4434.026	62.22	5.94	35.18	44.00	59.34	68.2	-8.86	PK
H	4434.026	43.56	5.94	35.18	44.00	40.68	54	-13.32	AV
H	10360.027	51.12	8.46	38.71	44.50	53.79	68.2	-14.41	PK
H	10360.027	42.63	8.46	38.71	44.50	45.30	54	-8.70	AV
H	15540.192	51.14	10.12	38.38	44.10	55.54	74	-18.46	PK
H	15540.192	43.25	10.12	38.38	44.10	47.65	54	-6.35	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.046	62.08	6.48	36.35	44.05	60.86	74	-13.14	PK
V	4592.046	43.14	6.48	36.35	44.05	41.92	54	-12.08	AV
V	10400.140	61.08	8.47	37.88	44.51	62.92	68.2	-5.28	PK
V	10400.140	43.66	8.47	37.88	44.51	45.50	54	-8.50	AV
V	15600.056	63.04	10.12	38.80	44.10	67.86	74	-6.14	PK
V	15600.056	43.63	10.12	38.80	42.70	49.85	54	-4.15	AV
H	4592.015	63.23	6.48	36.37	44.05	62.03	74	-11.97	PK
H	4592.015	43.10	6.48	36.37	44.05	41.90	54	-12.10	AV
H	10400.158	50.96	8.47	38.64	44.50	53.57	68.2	-14.63	PK
H	10400.158	41.89	8.47	38.64	44.50	44.50	54	-9.50	AV
H	15600.162	52.66	10.12	38.38	44.10	57.06	74	-16.94	PK
H	15600.162	43.06	10.12	38.38	44.10	47.46	54	-6.54	AV
High Channel (5240 MHz)-Above 1G									
V	4739.093	62.90	7.10	37.24	43.50	63.74	74	-10.26	PK
V	4739.093	43.20	7.10	37.24	43.50	44.04	54	-9.96	AV
V	10480.181	63.80	8.46	37.68	44.50	65.44	68.2	-2.76	PK
V	10480.181	43.46	8.46	37.68	44.50	45.10	54	-8.90	AV
V	15720.080	63.99	10.12	38.80	44.10	68.81	74	-5.19	PK
V	15720.080	43.51	10.12	38.80	42.70	49.73	54	-4.27	AV
H	4739.165	62.25	7.10	37.24	43.50	63.09	74	-10.91	PK
H	4739.165	43.98	7.10	37.24	43.50	44.82	54	-9.18	AV
H	10480.107	52.79	8.46	38.57	44.50	55.32	68.2	-12.88	PK
H	10480.107	42.32	8.46	38.57	44.50	44.85	54	-9.15	AV
H	15720.043	52.48	10.12	38.38	44.10	56.88	74	-17.12	PK
H	15720.043	42.70	10.12	38.38	44.10	47.10	54	-6.90	AV

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

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

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

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

The worst case is Antenna A.

Test Mode :	TX(5.1G) - 802.11n-HT20
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.160	62.57	5.94	35.40	44.00	59.91	68.2	-8.29	PK
V	4434.160	43.89	5.94	35.40	44.00	41.23	54	-12.77	AV
V	10360.098	60.84	8.46	39.75	44.50	64.55	68.2	-3.65	PK
V	10360.098	43.69	8.46	39.75	44.50	47.40	54	-6.60	AV
V	15540.041	60.69	10.12	38.80	44.10	65.51	74	-8.49	PK
V	15540.041	43.05	10.12	38.80	42.70	49.27	54	-4.73	AV
H	4434.019	62.59	5.94	35.18	44.00	59.71	68.2	-8.49	PK
H	4434.019	43.31	5.94	35.18	44.00	40.43	54	-13.57	AV
H	10360.107	52.01	8.46	38.71	44.50	54.68	68.2	-13.52	PK
H	10360.107	42.32	8.46	38.71	44.50	44.99	54	-9.01	AV
H	15540.100	52.24	10.12	38.38	44.10	56.64	74	-17.36	PK
H	15540.100	42.28	10.12	38.38	44.10	46.68	54	-7.32	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.104	62.91	6.48	36.35	44.05	61.69	74	-12.31	PK
V	4592.104	43.50	6.48	36.35	44.05	42.28	54	-11.72	AV
V	10400.005	62.80	8.47	37.88	44.51	64.64	68.2	-3.56	PK
V	10400.005	43.71	8.47	37.88	44.51	45.55	54	-8.45	AV
V	15600.118	62.12	10.12	38.80	44.10	66.94	74	-7.06	PK
V	15600.118	43.84	10.12	38.80	42.70	50.06	54	-3.94	AV
H	4592.061	61.77	6.48	36.37	44.05	60.57	74	-13.43	PK
H	4592.061	43.88	6.48	36.37	44.05	42.68	54	-11.32	AV
H	10400.065	54.72	8.47	38.64	44.50	57.33	68.2	-10.87	PK
H	10400.065	43.19	8.47	38.64	44.50	45.80	54	-8.20	AV
H	15600.092	52.90	10.12	38.38	44.10	57.30	74	-16.70	PK
H	15600.092	43.75	10.12	38.38	44.10	48.15	54	-5.85	AV
High Channel (5240 MHz)-Above 1G									
V	4739.063	64.41	7.10	37.24	43.50	65.25	74	-8.75	PK
V	4739.063	43.23	7.10	37.24	43.50	44.07	54	-9.93	AV
V	10480.195	61.42	8.46	37.68	44.50	63.06	68.2	-5.14	PK
V	10480.195	43.41	8.46	37.68	44.50	45.05	54	-8.95	AV
V	15720.034	60.17	10.12	38.80	44.10	64.99	74	-9.01	PK
V	15720.034	43.73	10.12	38.80	42.70	49.95	54	-4.05	AV
H	4739.118	63.08	7.10	37.24	43.50	63.92	74	-10.08	PK
H	4739.118	43.52	7.10	37.24	43.50	44.36	54	-9.64	AV
H	10480.050	53.16	8.46	38.57	44.50	55.69	68.2	-12.51	PK
H	10480.050	42.90	8.46	38.57	44.50	45.43	54	-8.57	AV
H	15720.151	50.48	10.12	38.38	44.10	54.88	74	-19.12	PK
H	15720.151	42.67	10.12	38.38	44.10	47.07	54	-6.93	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode :	TX(5.1G) - 802.11n-HT40
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G									
V	4434.198	64.14	5.94	35.40	44.00	61.48	68.2	-6.72	PK
V	4434.198	43.06	5.94	35.40	44.00	40.40	54	-13.60	AV
V	10380.181	62.06	8.46	39.75	44.50	65.77	68.2	-2.43	PK
V	10380.181	43.15	8.46	39.75	44.50	46.86	54	-7.14	AV
V	15570.130	61.44	10.12	38.80	44.10	66.26	74	-7.74	PK
V	15570.130	43.14	10.12	38.80	42.70	49.36	54	-4.64	AV
H	4434.157	64.53	5.94	35.18	44.00	61.65	74	-12.35	PK
H	4434.157	43.54	5.94	35.18	44.00	40.66	54	-13.34	AV
H	10380.093	50.82	8.46	38.71	44.50	53.49	68.2	-14.71	PK
H	10380.093	41.97	8.46	38.71	44.50	44.64	54	-9.36	AV
H	15570.024	52.37	10.12	38.38	44.10	56.77	74	-17.23	PK
H	15570.024	41.47	10.12	38.38	44.10	45.87	54	-8.13	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.066	60.37	6.48	36.35	44.05	59.15	68.2	-9.05	PK
V	4739.066	43.37	6.48	36.35	44.05	42.15	54	-11.85	AV
V	10460.140	64.46	8.47	37.88	44.51	66.30	68.2	-1.90	PK
V	10460.140	43.09	8.47	37.88	44.51	44.93	54	-9.07	AV
V	15690.116	60.24	10.12	38.80	44.10	65.06	74	-8.94	PK
V	15690.116	43.21	10.12	38.80	42.70	49.43	54	-4.57	AV
H	4739.154	63.04	6.48	36.37	44.05	61.84	68.2	-6.36	PK
H	4739.154	43.97	6.48	36.37	44.05	42.77	54	-11.23	AV
H	10460.193	51.09	8.47	38.64	44.50	53.70	68.2	-14.50	PK
H	10460.193	40.57	8.47	38.64	44.50	43.18	54	-10.82	AV
H	15690.187	54.27	10.12	38.38	44.10	58.67	74	-15.33	PK
H	15690.187	44.80	10.12	38.38	44.10	49.20	54	-4.80	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 (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.033	61.16	5.94	35.40	44.00	58.50	68.2	-9.70	PK
V	4434.033	43.24	5.94	35.40	44.00	40.58	54	-13.42	AV
V	10360.081	63.74	8.46	39.75	44.50	67.45	68.2	-0.75	PK
V	10360.081	43.60	8.46	39.75	44.50	47.31	54	-6.69	AV
V	15540.180	61.07	10.12	38.80	44.10	65.89	74	-8.11	PK
V	15540.180	43.19	10.12	38.80	42.70	49.41	54	-4.59	AV
H	4434.184	61.88	5.94	35.18	44.00	59.00	68.2	-9.20	PK
H	4434.184	43.88	5.94	35.18	44.00	41.00	54	-13.00	AV
H	10360.178	53.73	8.46	38.71	44.50	56.40	68.2	-11.80	PK
H	10360.178	40.55	8.46	38.71	44.50	43.22	54	-10.78	AV
H	15540.073	53.02	10.12	38.38	44.10	57.42	74	-16.58	PK
H	15540.073	43.83	10.12	38.38	44.10	48.23	54	-5.77	AV
Middle Channel (5200 MHz)-Above 1G									
V	4592.015	62.64	6.48	36.35	44.05	61.42	74	-12.58	PK
V	4592.015	43.03	6.48	36.35	44.05	41.81	54	-12.19	AV
V	10400.097	62.38	8.47	37.88	44.51	64.22	68.2	-3.98	PK
V	10400.097	43.15	8.47	37.88	44.51	44.99	54	-9.01	AV
V	15600.132	62.43	10.12	38.80	44.10	67.25	74	-6.75	PK
V	15600.132	43.70	10.12	38.80	42.70	49.92	54	-4.08	AV
H	4592.127	64.17	6.48	36.37	44.05	62.97	74	-11.03	PK
H	4592.127	43.40	6.48	36.37	44.05	42.20	54	-11.80	AV
H	10400.133	50.51	8.47	38.64	44.50	53.12	68.2	-15.08	PK
H	10400.133	40.86	8.47	38.64	44.50	43.47	54	-10.53	AV
H	15600.105	50.97	10.12	38.38	44.10	55.37	74	-18.63	PK
H	15600.105	42.97	10.12	38.38	44.10	47.37	54	-6.63	AV
High Channel (5240 MHz)-Above 1G									
V	4739.127	63.82	7.10	37.24	43.50	64.66	74	-9.34	PK
V	4739.127	43.90	7.10	37.24	43.50	44.74	54	-9.26	AV
V	10480.005	60.22	8.46	37.68	44.50	61.86	68.2	-6.34	PK
V	10480.005	43.00	8.46	37.68	44.50	44.64	54	-9.36	AV
V	15720.062	63.52	10.12	38.80	44.10	68.34	74	-5.66	PK
V	15720.062	43.67	10.12	38.80	42.70	49.89	54	-4.11	AV
H	4739.047	61.11	7.10	37.24	43.50	61.95	74	-12.05	PK
H	4739.047	43.44	7.10	37.24	43.50	44.28	54	-9.72	AV
H	10480.017	51.05	8.46	38.57	44.50	53.58	68.2	-14.62	PK
H	10480.017	44.73	8.46	38.57	44.50	47.26	54	-6.74	AV
H	15720.025	54.21	10.12	38.38	44.10	58.61	74	-15.39	PK
H	15720.025	41.61	10.12	38.38	44.10	46.01	54	-7.99	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ac-HT40
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G									
V	4434.124	60.69	5.94	35.40	44.00	58.03	68.2	-10.17	PK
V	4434.124	43.81	5.94	35.40	44.00	41.15	54	-12.85	AV
V	10380.170	61.49	8.46	39.75	44.50	65.20	68.2	-3.00	PK
V	10380.170	43.85	8.46	39.75	44.50	47.56	54	-6.44	AV
V	15570.143	62.12	10.12	38.80	44.10	66.94	74	-7.06	PK
V	15570.143	43.73	10.12	38.80	42.70	49.95	54	-4.05	AV
H	4434.058	63.60	5.94	35.18	44.00	60.72	74	-13.28	PK
H	4434.058	43.78	5.94	35.18	44.00	40.90	54	-13.10	AV
H	10380.168	50.79	8.46	38.71	44.50	53.46	68.2	-14.74	PK
H	10380.168	43.09	8.46	38.71	44.50	45.76	54	-8.24	AV
H	15570.194	50.04	10.12	38.38	44.10	54.44	74	-19.56	PK
H	15570.194	41.13	10.12	38.38	44.10	45.53	54	-8.47	AV
High Channel (5230 MHz)-Above 1G									
V	4739.106	64.61	6.48	36.35	44.05	63.39	68.2	-4.81	PK
V	4739.106	43.30	6.48	36.35	44.05	42.08	54	-11.92	AV
V	10460.071	64.64	8.47	37.88	44.51	66.48	68.2	-1.72	PK
V	10460.071	43.03	8.47	37.88	44.51	44.87	54	-9.13	AV
V	15690.164	61.95	10.12	38.80	44.10	66.77	74	-7.23	PK
V	15690.164	43.96	10.12	38.80	42.70	50.18	54	-3.82	AV
H	4739.101	60.85	6.48	36.37	44.05	59.65	68.2	-8.55	PK
H	4739.101	43.18	6.48	36.37	44.05	41.98	54	-12.02	AV
H	10460.131	52.48	8.47	38.64	44.50	55.09	68.2	-13.11	PK
H	10460.131	42.79	8.47	38.64	44.50	45.40	54	-8.60	AV
H	15690.021	54.65	10.12	38.38	44.10	59.05	74	-14.95	PK
H	15690.021	42.52	10.12	38.38	44.10	46.92	54	-7.08	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ac-HT80
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
(5210 MHz)-Above 1G									
V	4434.056	60.52	5.94	35.40	44.00	57.86	68.2	-10.34	PK
V	4434.056	43.98	5.94	35.40	44.00	41.32	54	-12.68	AV
V	10420.188	63.55	8.46	39.75	44.50	67.26	68.2	-0.94	PK
V	10420.188	43.15	8.46	39.75	44.50	46.86	54	-7.14	AV
V	15630.191	61.77	10.12	38.80	44.10	66.59	74	-7.41	PK
V	15630.191	43.26	10.12	38.80	42.70	49.48	54	-4.52	AV
H	4434.127	64.20	5.94	35.18	44.00	61.32	68.2	-6.88	PK
H	4434.127	43.52	5.94	35.18	44.00	40.64	54	-13.36	AV
H	10420.013	50.80	8.46	38.71	44.50	53.47	68.2	-14.73	PK
H	10420.013	44.26	8.46	38.71	44.50	46.93	54	-7.07	AV
H	15630.137	52.58	10.12	38.38	44.10	56.98	74	-17.02	PK
H	15630.137	42.38	10.12	38.38	44.10	46.78	54	-7.22	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode:	TX(5.3G) - 802.11a
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5260 MHz)-Above 1G									
V	4434.197	64.48	5.94	35.40	44.00	61.82	68.2	-6.38	PK
V	4434.197	43.56	5.94	35.40	44.00	40.90	54	-13.10	AV
V	10520.110	60.46	8.46	39.75	44.50	64.17	68.2	-4.03	PK
V	10520.110	43.90	8.46	39.75	44.50	47.61	54	-6.39	AV
V	15780.148	62.86	10.12	38.80	44.10	67.68	74	-6.32	PK
V	15780.148	43.42	10.12	38.80	42.70	49.64	54	-4.36	AV
H	4434.111	63.44	5.94	35.18	44.00	60.56	68.2	-7.64	PK
H	4434.111	43.63	5.94	35.18	44.00	40.75	54	-13.25	AV
H	10520.096	54.07	8.46	38.71	44.50	56.74	68.2	-11.46	PK
H	10520.096	43.91	8.46	38.71	44.50	46.58	54	-7.42	AV
H	15780.080	50.41	10.12	38.38	44.10	54.81	74	-19.19	PK
H	15780.080	43.42	10.12	38.38	44.10	47.82	54	-6.18	AV
middle Channel (5280 MHz)-Above 1G									
V	4592.159	62.51	6.48	36.35	44.05	61.29	74	-12.71	PK
V	4592.159	43.07	6.48	36.35	44.05	41.85	54	-12.15	AV
V	10560.055	60.16	8.47	37.88	44.51	62.00	68.2	-6.20	PK
V	10560.055	43.71	8.47	37.88	44.51	45.55	54	-8.45	AV
V	15840.026	64.45	10.12	38.80	44.10	69.27	74	-4.73	PK
V	15840.026	43.28	10.12	38.80	42.70	49.50	54	-4.50	AV
H	4592.132	64.70	6.48	36.37	44.05	63.50	74	-10.50	PK
H	4592.132	43.31	6.48	36.37	44.05	42.11	54	-11.89	AV
H	10560.034	50.38	8.47	38.64	44.50	52.99	68.2	-15.21	PK
H	10560.034	42.47	8.47	38.64	44.50	45.08	54	-8.92	AV
H	15840.023	51.91	10.12	38.38	44.10	56.31	74	-17.69	PK
H	15840.023	41.45	10.12	38.38	44.10	45.85	54	-8.15	AV
High Channel (5320 MHz)-Above 1G									
V	4739.074	62.72	7.10	37.24	43.50	63.56	74	-10.44	PK
V	4739.074	43.58	7.10	37.24	43.50	44.42	54	-9.58	AV
V	10640.156	62.48	8.46	37.68	44.50	64.12	68.2	-4.08	PK
V	10640.156	43.43	8.46	37.68	44.50	45.07	54	-8.93	AV
V	15960.036	62.07	10.12	38.80	44.10	66.89	74	-7.11	PK
V	15960.036	43.39	10.12	38.80	42.70	49.61	54	-4.39	AV
H	4739.127	60.08	7.10	37.24	43.50	60.92	74	-13.08	PK
H	4739.127	43.85	7.10	37.24	43.50	44.69	54	-9.31	AV
H	10640.027	54.58	8.46	38.57	44.50	57.11	68.2	-11.09	PK
H	10640.027	44.85	8.46	38.57	44.50	47.38	54	-6.62	AV
H	15960.128	50.77	10.12	38.38	44.10	55.17	74	-18.83	PK
H	15960.128	40.96	10.12	38.38	44.10	45.36	54	-8.64	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 (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5260 MHz)-Above 1G									
V	4434.037	61.53	5.94	35.40	44.00	58.87	68.2	-9.33	PK
V	4434.037	43.39	5.94	35.40	44.00	40.73	54	-13.27	AV
V	10520.157	61.19	8.46	39.75	44.50	64.90	68.2	-3.30	PK
V	10520.157	43.67	8.46	39.75	44.50	47.38	54	-6.62	AV
V	15780.078	64.99	10.12	38.80	44.10	69.81	74	-4.19	PK
V	15780.078	43.99	10.12	38.80	42.70	50.21	54	-3.79	AV
H	4434.172	64.08	5.94	35.18	44.00	61.20	68.2	-7.00	PK
H	4434.172	43.85	5.94	35.18	44.00	40.97	54	-13.03	AV
H	10520.038	52.17	8.46	38.71	44.50	54.84	68.2	-13.36	PK
H	10520.038	42.55	8.46	38.71	44.50	45.22	54	-8.78	AV
H	15780.021	52.63	10.12	38.38	44.10	57.03	74	-16.97	PK
H	15780.021	41.53	10.12	38.38	44.10	45.93	54	-8.07	AV
middle Channel (5280 MHz)-Above 1G									
V	4592.064	62.15	6.48	36.35	44.05	60.93	74	-13.07	PK
V	4592.064	43.49	6.48	36.35	44.05	42.27	54	-11.73	AV
V	10560.016	64.66	8.47	37.88	44.51	66.50	68.2	-1.70	PK
V	10560.016	43.21	8.47	37.88	44.51	45.05	54	-8.95	AV
V	15840.141	60.84	10.12	38.80	44.10	65.66	74	-8.34	PK
V	15840.141	43.38	10.12	38.80	42.70	49.60	54	-4.40	AV
H	4592.044	61.89	6.48	36.37	44.05	60.69	74	-13.31	PK
H	4592.044	43.04	6.48	36.37	44.05	41.84	54	-12.16	AV
H	10560.128	53.15	8.47	38.64	44.50	55.76	68.2	-12.44	PK
H	10560.128	44.18	8.47	38.64	44.50	46.79	54	-7.21	AV
H	15840.065	51.73	10.12	38.38	44.10	56.13	74	-17.87	PK
H	15840.065	43.63	10.12	38.38	44.10	48.03	54	-5.97	AV
High Channel (5320 MHz)-Above 1G									
V	4739.124	64.92	7.10	37.24	43.50	65.76	74	-8.24	PK
V	4739.124	43.01	7.10	37.24	43.50	43.85	54	-10.15	AV
V	10640.058	62.55	8.46	37.68	44.50	64.19	68.2	-4.01	PK
V	10640.058	43.03	8.46	37.68	44.50	44.67	54	-9.33	AV
V	15960.018	61.63	10.12	38.80	44.10	66.45	74	-7.55	PK
V	15960.018	43.91	10.12	38.80	42.70	50.13	54	-3.87	AV
H	4739.148	61.33	7.10	37.24	43.50	62.17	74	-11.83	PK
H	4739.148	43.46	7.10	37.24	43.50	44.30	54	-9.70	AV
H	10640.082	51.70	8.46	38.57	44.50	54.23	68.2	-13.97	PK
H	10640.082	42.66	8.46	38.57	44.50	45.19	54	-8.81	AV
H	15960.073	53.27	10.12	38.38	44.10	57.67	74	-16.33	PK
H	15960.073	44.24	10.12	38.38	44.10	48.64	54	-5.36	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)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5270 MHz)-Above 1G									
V	4434.197	62.23	5.94	35.40	44.00	59.57	68.2	-8.63	PK
V	4434.197	43.15	5.94	35.40	44.00	40.49	54	-13.51	AV
V	10540.194	63.02	8.46	39.75	44.50	66.73	68.2	-1.47	PK
V	10540.194	43.91	8.46	39.75	44.50	47.62	54	-6.38	AV
V	15810.105	63.95	10.12	38.80	44.10	68.77	74	-5.23	PK
V	15810.105	43.76	10.12	38.80	42.70	49.98	54	-4.02	AV
H	4434.123	62.98	5.94	35.18	44.00	60.10	74	-13.90	PK
H	4434.123	43.55	5.94	35.18	44.00	40.67	54	-13.33	AV
H	10540.079	52.13	8.46	38.71	44.50	54.80	68.2	-13.40	PK
H	10540.079	42.16	8.46	38.71	44.50	44.83	54	-9.17	AV
H	15810.147	54.07	10.12	38.38	44.10	58.47	74	-15.53	PK
H	15810.147	43.53	10.12	38.38	44.10	47.93	54	-6.07	AV
middle Channel (5310 MHz)-Above 1G									
V	4739.178	63.77	6.48	36.35	44.05	62.55	68.2	-5.65	PK
V	4739.178	43.84	6.48	36.35	44.05	42.62	54	-11.38	AV
V	10620.164	63.86	8.47	37.88	44.51	65.70	68.2	-2.50	PK
V	10620.164	43.57	8.47	37.88	44.51	45.41	54	-8.59	AV
V	15930.130	60.57	10.12	38.80	44.10	65.39	74	-8.61	PK
V	15930.130	43.71	10.12	38.80	42.70	49.93	54	-4.07	AV
H	4739.134	61.62	6.48	36.37	44.05	60.42	68.2	-7.78	PK
H	4739.134	43.23	6.48	36.37	44.05	42.03	54	-11.97	AV
H	10620.025	52.36	8.47	38.64	44.50	54.97	68.2	-13.23	PK
H	10620.025	40.93	8.47	38.64	44.50	43.54	54	-10.46	AV
H	15930.065	54.06	10.12	38.38	44.10	58.46	74	-15.54	PK
H	15930.065	44.93	10.12	38.38	44.10	49.33	54	-4.67	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 (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5260 MHz)-Above 1G									
V	4434.194	63.16	5.94	35.40	44.00	60.50	68.2	-7.70	PK
V	4434.194	43.43	5.94	35.40	44.00	40.77	54	-13.23	AV
V	10520.138	60.27	8.46	39.75	44.50	63.98	68.2	-4.22	PK
V	10520.138	43.85	8.46	39.75	44.50	47.56	54	-6.44	AV
V	15780.152	61.70	10.12	38.80	44.10	66.52	74	-7.48	PK
V	15780.152	43.18	10.12	38.80	42.70	49.40	54	-4.60	AV
H	4434.163	62.09	5.94	35.18	44.00	59.21	68.2	-8.99	PK
H	4434.163	43.79	5.94	35.18	44.00	40.91	54	-13.09	AV
H	10520.093	51.69	8.46	38.71	44.50	54.36	68.2	-13.84	PK
H	10520.093	44.64	8.46	38.71	44.50	47.31	54	-6.69	AV
H	15780.079	52.43	10.12	38.38	44.10	56.83	74	-17.17	PK
H	15780.079	41.53	10.12	38.38	44.10	45.93	54	-8.07	AV
middle Channel (5280 MHz)-Above 1G									
V	4592.037	64.53	6.48	36.35	44.05	63.31	74	-10.69	PK
V	4592.037	43.66	6.48	36.35	44.05	42.44	54	-11.56	AV
V	10560.019	62.34	8.47	37.88	44.51	64.18	68.2	-4.02	PK
V	10560.019	43.45	8.47	37.88	44.51	45.29	54	-8.71	AV
V	15840.139	62.09	10.12	38.80	44.10	66.91	74	-7.09	PK
V	15840.139	43.08	10.12	38.80	42.70	49.30	54	-4.70	AV
H	4592.028	62.60	6.48	36.37	44.05	61.40	74	-12.60	PK
H	4592.028	43.35	6.48	36.37	44.05	42.15	54	-11.85	AV
H	10560.124	50.74	8.47	38.64	44.50	53.35	68.2	-14.85	PK
H	10560.124	43.67	8.47	38.64	44.50	46.28	54	-7.72	AV
H	15840.055	51.09	10.12	38.38	44.10	55.49	74	-18.51	PK
H	15840.055	44.95	10.12	38.38	44.10	49.35	54	-4.65	AV
High Channel (5320 MHz)-Above 1G									
V	4739.047	63.89	7.10	37.24	43.50	64.73	74	-9.27	PK
V	4739.047	43.97	7.10	37.24	43.50	44.81	54	-9.19	AV
V	10640.178	60.58	8.46	37.68	44.50	62.22	68.2	-5.98	PK
V	10640.178	43.04	8.46	37.68	44.50	44.68	54	-9.32	AV
V	15960.086	62.51	10.12	38.80	44.10	67.33	74	-6.67	PK
V	15960.086	43.49	10.12	38.80	42.70	49.71	54	-4.29	AV
H	4739.118	63.33	7.10	37.24	43.50	64.17	74	-9.83	PK
H	4739.118	43.68	7.10	37.24	43.50	44.52	54	-9.48	AV
H	10640.142	51.79	8.46	38.57	44.50	54.32	68.2	-13.88	PK
H	10640.142	40.51	8.46	38.57	44.50	43.04	54	-10.96	AV
H	15960.141	52.89	10.12	38.38	44.10	57.29	74	-16.71	PK
H	15960.141	40.27	10.12	38.38	44.10	44.67	54	-9.33	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode :	TX(5.3G) - 802.11ac-HT40
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5270 MHz)-Above 1G									
V	4434.008	63.10	5.94	35.40	44.00	60.44	68.2	-7.76	PK
V	4434.008	43.94	5.94	35.40	44.00	41.28	54	-12.72	AV
V	10540.169	61.63	8.46	39.75	44.50	65.34	68.2	-2.86	PK
V	10540.169	43.12	8.46	39.75	44.50	46.83	54	-7.17	AV
V	15810.005	63.70	10.12	38.80	44.10	68.52	74	-5.48	PK
V	15810.005	43.92	10.12	38.80	42.70	50.14	54	-3.86	AV
H	4434.057	60.65	5.94	35.18	44.00	57.77	74	-16.23	PK
H	4434.057	43.20	5.94	35.18	44.00	40.32	54	-13.68	AV
H	10540.197	51.63	8.46	38.71	44.50	54.30	68.2	-13.90	PK
H	10540.197	40.17	8.46	38.71	44.50	42.84	54	-11.16	AV
H	15810.070	51.78	10.12	38.38	44.10	56.18	74	-17.82	PK
H	15810.070	41.77	10.12	38.38	44.10	46.17	54	-7.83	AV
middle Channel (5310 MHz)-Above 1G									
V	4739.085	63.14	6.48	36.35	44.05	61.92	68.2	-6.28	PK
V	4739.085	43.17	6.48	36.35	44.05	41.95	54	-12.05	AV
V	10620.116	61.57	8.47	37.88	44.51	63.41	68.2	-4.79	PK
V	10620.116	43.19	8.47	37.88	44.51	45.03	54	-8.97	AV
V	15930.150	63.60	10.12	38.80	44.10	68.42	74	-5.58	PK
V	15930.150	43.48	10.12	38.80	42.70	49.70	54	-4.30	AV
H	4739.105	63.45	6.48	36.37	44.05	62.25	68.2	-5.95	PK
H	4739.105	43.75	6.48	36.37	44.05	42.55	54	-11.45	AV
H	10620.135	51.13	8.47	38.64	44.50	53.74	68.2	-14.46	PK
H	10620.135	40.20	8.47	38.64	44.50	42.81	54	-11.19	AV
H	15930.129	51.18	10.12	38.38	44.10	55.58	74	-18.42	PK
H	15930.129	42.74	10.12	38.38	44.10	47.14	54	-6.86	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode:	TX(5.3G) - 802.11ac-HT80
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
(5290 MHz)-Above 1G									
V	4434.180	63.39	5.94	35.40	44.00	60.73	68.2	-7.47	PK
V	4434.180	43.25	5.94	35.40	44.00	40.59	54	-13.41	AV
V	10580.086	61.30	8.46	39.75	44.50	65.01	68.2	-3.19	PK
V	10580.086	43.69	8.46	39.75	44.50	47.40	54	-6.60	AV
V	15870.037	61.36	10.12	38.80	44.10	66.18	74	-7.82	PK
V	15870.037	43.64	10.12	38.80	42.70	49.86	54	-4.14	AV
H	4434.089	62.24	5.94	35.18	44.00	59.36	68.2	-8.84	PK
H	4434.089	43.10	5.94	35.18	44.00	40.22	54	-13.78	AV
H	10580.193	53.56	8.46	38.71	44.50	56.23	68.2	-11.97	PK
H	10580.193	43.16	8.46	38.71	44.50	45.83	54	-8.17	AV
H	15870.085	53.72	10.12	38.38	44.10	58.12	74	-15.88	PK
H	15870.085	44.65	10.12	38.38	44.10	49.05	54	-4.95	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode:	TX(5.6G) - 802.11a
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5500 MHz)-Above 1G									
V	4434.155	61.22	5.94	35.40	44.00	58.56	68.2	-9.64	PK
V	4434.155	43.76	5.94	35.40	44.00	41.10	54	-12.90	AV
V	11000.196	63.19	8.46	39.75	44.50	66.90	68.2	-1.30	PK
V	11000.196	43.48	8.46	39.75	44.50	47.19	54	-6.81	AV
V	16500.107	64.12	10.12	38.80	44.10	68.94	74	-5.06	PK
V	16500.107	43.12	10.12	38.80	42.70	49.34	54	-4.66	AV
H	4434.173	63.71	5.94	35.18	44.00	60.83	68.2	-7.37	PK
H	4434.173	43.50	5.94	35.18	44.00	40.62	54	-13.38	AV
H	11000.198	52.67	8.46	38.71	44.50	55.34	68.2	-12.86	PK
H	11000.198	43.00	8.46	38.71	44.50	45.67	54	-8.33	AV
H	16500.171	54.28	10.12	38.38	44.10	58.68	74	-15.32	PK
H	16500.171	40.65	10.12	38.38	44.10	45.05	54	-8.95	AV
Middle Channel (5580 MHz)-Above 1G									
V	4592.050	62.48	6.48	36.35	44.05	61.26	74	-12.74	PK
V	4592.050	43.13	6.48	36.35	44.05	41.91	54	-12.09	AV
V	11160.061	61.21	8.47	37.88	44.51	63.05	68.2	-5.15	PK
V	11160.061	43.01	8.47	37.88	44.51	44.85	54	-9.15	AV
V	16740.146	64.97	10.12	38.80	44.10	69.79	74	-4.21	PK
V	16740.146	43.28	10.12	38.80	42.70	49.50	54	-4.50	AV
H	4592.100	64.53	6.48	36.37	44.05	63.33	74	-10.67	PK
H	4592.100	43.71	6.48	36.37	44.05	42.51	54	-11.49	AV
H	11160.049	50.79	8.47	38.64	44.50	53.40	68.2	-14.80	PK
H	11160.049	40.01	8.47	38.64	44.50	42.62	54	-11.38	AV
H	16740.088	54.31	10.12	38.38	44.10	58.71	74	-15.29	PK
H	16740.088	40.67	10.12	38.38	44.10	45.07	54	-8.93	AV
High Channel (5700 MHz)-Above 1G									
V	4739.109	63.74	7.10	37.24	43.50	64.58	74	-9.42	PK
V	4739.109	43.04	7.10	37.24	43.50	43.88	54	-10.12	AV
V	11400.173	60.26	8.46	37.68	44.50	61.90	68.2	-6.30	PK
V	11400.173	43.39	8.46	37.68	44.50	45.03	54	-8.97	AV
V	17100.160	61.36	10.12	38.80	44.10	66.18	74	-7.82	PK
V	17100.160	43.64	10.12	38.80	42.70	49.86	54	-4.14	AV
H	4739.133	60.44	7.10	37.24	43.50	61.28	74	-12.72	PK
H	4739.133	43.18	7.10	37.24	43.50	44.02	54	-9.98	AV
H	11400.050	50.80	8.46	38.57	44.50	53.33	68.2	-14.87	PK
H	11400.050	41.30	8.46	38.57	44.50	43.83	54	-10.17	AV
H	17100.090	54.37	10.12	38.38	44.10	58.77	74	-15.23	PK
H	17100.090	41.06	10.12	38.38	44.10	45.46	54	-8.54	AV

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

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

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

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

The worst case is Antenna A.

Test Mode:	TX(5.6G) - 802.11n-HT20
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5500 MHz)-Above 1G									
V	4434.011	62.91	5.94	35.40	44.00	60.25	68.2	-7.95	PK
V	4434.011	43.23	5.94	35.40	44.00	40.57	54	-13.43	AV
V	11000.059	60.66	8.46	39.75	44.50	64.37	68.2	-3.83	PK
V	11000.059	43.85	8.46	39.75	44.50	47.56	54	-6.44	AV
V	16500.085	63.37	10.12	38.80	44.10	68.19	74	-5.81	PK
V	16500.085	43.39	10.12	38.80	42.70	49.61	54	-4.39	AV
H	4434.092	60.29	5.94	35.18	44.00	57.41	68.2	-10.79	PK
H	4434.092	43.21	5.94	35.18	44.00	40.33	54	-13.67	AV
H	11000.099	51.62	8.46	38.71	44.50	54.29	68.2	-13.91	PK
H	11000.099	40.80	8.46	38.71	44.50	43.47	54	-10.53	AV
H	16500.088	53.87	10.12	38.38	44.10	58.27	74	-15.73	PK
H	16500.088	41.94	10.12	38.38	44.10	46.34	54	-7.66	AV
Middle Channel (5580 MHz)-Above 1G									
V	4592.139	60.97	6.48	36.35	44.05	59.75	74	-14.25	PK
V	4592.139	43.66	6.48	36.35	44.05	42.44	54	-11.56	AV
V	11160.023	62.07	8.47	37.88	44.51	63.91	68.2	-4.29	PK
V	11160.023	43.43	8.47	37.88	44.51	45.27	54	-8.73	AV
V	16740.040	62.36	10.12	38.80	44.10	67.18	74	-6.82	PK
V	16740.040	43.12	10.12	38.80	42.70	49.34	54	-4.66	AV
H	4592.097	63.73	6.48	36.37	44.05	62.53	74	-11.47	PK
H	4592.097	43.81	6.48	36.37	44.05	42.61	54	-11.39	AV
H	11160.144	54.65	8.47	38.64	44.50	57.26	68.2	-10.94	PK
H	11160.144	40.29	8.47	38.64	44.50	42.90	54	-11.10	AV
H	16740.160	52.28	10.12	38.38	44.10	56.68	74	-17.32	PK
H	16740.160	42.99	10.12	38.38	44.10	47.39	54	-6.61	AV
High Channel (5700 MHz)-Above 1G									
V	4739.104	60.39	7.10	37.24	43.50	61.23	74	-12.77	PK
V	4739.104	43.56	7.10	37.24	43.50	44.40	54	-9.60	AV
V	11400.159	62.68	8.46	37.68	44.50	64.32	68.2	-3.88	PK
V	11400.159	43.21	8.46	37.68	44.50	44.85	54	-9.15	AV
V	17100.053	61.63	10.12	38.80	44.10	66.45	74	-7.55	PK
V	17100.053	43.95	10.12	38.80	42.70	50.17	54	-3.83	AV
H	4739.154	60.10	7.10	37.24	43.50	60.94	74	-13.06	PK
H	4739.154	43.22	7.10	37.24	43.50	44.06	54	-9.94	AV
H	11400.043	53.39	8.46	38.57	44.50	55.92	68.2	-12.28	PK
H	11400.043	41.94	8.46	38.57	44.50	44.47	54	-9.53	AV
H	17100.002	54.23	10.12	38.38	44.10	58.63	74	-15.37	PK
H	17100.002	43.78	10.12	38.38	44.10	48.18	54	-5.82	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode:	TX(5.6G) - 802.11n-HT40
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5510 MHz)-Above 1G									
V	4434.162	61.67	5.94	35.40	44.00	59.01	68.2	-9.19	PK
V	4434.162	43.16	5.94	35.40	44.00	40.50	54	-13.50	AV
V	11020.091	63.76	8.46	39.75	44.50	67.47	68.2	-0.73	PK
V	11020.091	43.80	8.46	39.75	44.50	47.51	54	-6.49	AV
V	16530.167	62.83	10.12	38.80	44.10	67.65	74	-6.35	PK
V	16530.167	43.79	10.12	38.80	42.70	50.01	54	-3.99	AV
H	4434.152	63.94	5.94	35.18	44.00	61.06	74	-12.94	PK
H	4434.152	43.92	5.94	35.18	44.00	41.04	54	-12.96	AV
H	11020.088	54.74	8.46	38.71	44.50	57.41	68.2	-10.79	PK
H	11020.088	41.58	8.46	38.71	44.50	44.25	54	-9.75	AV
H	16530.039	50.22	10.12	38.38	44.10	54.62	74	-19.38	PK
H	16530.039	44.11	10.12	38.38	44.10	48.51	54	-5.49	AV
Middle Channel (5590 MHz)-Above 1G									
V	4592.197	63.08	6.48	36.35	44.05	61.86	74	-12.14	PK
V	4592.197	43.25	6.48	36.35	44.05	42.03	54	-11.97	AV
V	11100.139	62.20	8.47	37.88	44.51	64.04	68.2	-4.16	PK
V	11100.139	43.57	8.47	37.88	44.51	45.41	54	-8.59	AV
V	16650.135	61.96	10.12	38.80	44.10	66.78	74	-7.22	PK
V	16650.135	43.97	10.12	38.80	42.70	50.19	54	-3.81	AV
H	4592.078	60.34	6.48	36.37	44.05	59.14	74	-14.86	PK
H	4592.078	43.66	6.48	36.37	44.05	42.46	54	-11.54	AV
H	11100.013	52.07	8.47	38.64	44.50	54.68	68.2	-13.52	PK
H	11100.013	44.92	8.47	38.64	44.50	47.53	54	-6.47	AV
H	16650.185	54.76	10.12	38.38	44.10	59.16	74	-14.84	PK
H	16650.185	44.71	10.12	38.38	44.10	49.11	54	-4.89	AV
High Channel (5670 MHz)-Above 1G									
V	4739.151	60.90	6.48	36.35	44.05	59.68	68.2	-8.52	PK
V	4739.151	43.32	6.48	36.35	44.05	42.10	54	-11.90	AV
V	11340.082	61.67	8.47	37.88	44.51	63.51	68.2	-4.69	PK
V	11340.082	43.20	8.47	37.88	44.51	45.04	54	-8.96	AV
V	17010.169	61.71	10.12	38.80	44.10	66.53	74	-7.47	PK
V	17010.169	43.57	10.12	38.80	42.70	49.79	54	-4.21	AV
H	4739.082	62.80	6.48	36.37	44.05	61.60	68.2	-6.60	PK
H	4739.082	43.78	6.48	36.37	44.05	42.58	54	-11.42	AV
H	11340.199	54.95	8.47	38.64	44.50	57.56	68.2	-10.64	PK
H	11340.199	40.94	8.47	38.64	44.50	43.55	54	-10.45	AV
H	17010.048	51.25	10.12	38.38	44.10	55.65	74	-18.35	PK
H	17010.048	42.49	10.12	38.38	44.10	46.89	54	-7.11	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 (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5500 MHz)-Above 1G									
V	4434.118	62.82	5.94	35.40	44.00	60.16	68.2	-8.04	PK
V	4434.118	43.74	5.94	35.40	44.00	41.08	54	-12.92	AV
V	11000.102	60.24	8.46	39.75	44.50	63.95	68.2	-4.25	PK
V	11000.102	43.37	8.46	39.75	44.50	47.08	54	-6.92	AV
V	16500.189	64.89	10.12	38.80	44.10	69.71	74	-4.29	PK
V	16500.189	43.15	10.12	38.80	42.70	49.37	54	-4.63	AV
H	4434.184	65.00	5.94	35.18	44.00	62.12	68.2	-6.08	PK
H	4434.184	43.35	5.94	35.18	44.00	40.47	54	-13.53	AV
H	11000.159	50.81	8.46	38.71	44.50	53.48	68.2	-14.72	PK
H	11000.159	41.08	8.46	38.71	44.50	43.75	54	-10.25	AV
H	16500.064	52.79	10.12	38.38	44.10	57.19	74	-16.81	PK
H	16500.064	41.58	10.12	38.38	44.10	45.98	54	-8.02	AV
Middle Channel (5580 MHz)-Above 1G									
V	4592.140	61.16	6.48	36.35	44.05	59.94	74	-14.06	PK
V	4592.140	43.87	6.48	36.35	44.05	42.65	54	-11.35	AV
V	11160.043	64.98	8.47	37.88	44.51	66.82	68.2	-1.38	PK
V	11160.043	43.21	8.47	37.88	44.51	45.05	54	-8.95	AV
V	16740.149	63.09	10.12	38.80	44.10	67.91	74	-6.09	PK
V	16740.149	43.56	10.12	38.80	42.70	49.78	54	-4.22	AV
H	4592.078	61.79	6.48	36.37	44.05	60.59	74	-13.41	PK
H	4592.078	43.09	6.48	36.37	44.05	41.89	54	-12.11	AV
H	11160.058	54.71	8.47	38.64	44.50	57.32	68.2	-10.88	PK
H	11160.058	42.03	8.47	38.64	44.50	44.64	54	-9.36	AV
H	16740.179	52.73	10.12	38.38	44.10	57.13	74	-16.87	PK
H	16740.179	42.93	10.12	38.38	44.10	47.33	54	-6.67	AV
High Channel (5700 MHz)-Above 1G									
V	4739.099	62.11	7.10	37.24	43.50	62.95	74	-11.05	PK
V	4739.099	43.80	7.10	37.24	43.50	44.64	54	-9.36	AV
V	11400.052	60.95	8.46	37.68	44.50	62.59	68.2	-5.61	PK
V	11400.052	43.27	8.46	37.68	44.50	44.91	54	-9.09	AV
V	17100.196	62.28	10.12	38.80	44.10	67.10	74	-6.90	PK
V	17100.196	43.19	10.12	38.80	42.70	49.41	54	-4.59	AV
H	4739.087	61.90	7.10	37.24	43.50	62.74	74	-11.26	PK
H	4739.087	43.37	7.10	37.24	43.50	44.21	54	-9.79	AV
H	11400.036	52.58	8.46	38.57	44.50	55.11	68.2	-13.09	PK
H	11400.036	43.36	8.46	38.57	44.50	45.89	54	-8.11	AV
H	17100.080	54.61	10.12	38.38	44.10	59.01	74	-14.99	PK
H	17100.080	42.74	10.12	38.38	44.10	47.14	54	-6.86	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode:	TX(5.6G) - 802.11ac-HT40
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5510 MHz)-Above 1G									
V	4434.094	60.80	5.94	35.40	44.00	58.14	68.2	-10.06	PK
V	4434.094	43.53	5.94	35.40	44.00	40.87	54	-13.13	AV
V	11020.087	60.92	8.46	39.75	44.50	64.63	68.2	-3.57	PK
V	11020.087	43.10	8.46	39.75	44.50	46.81	54	-7.19	AV
V	16530.134	62.87	10.12	38.80	44.10	67.69	74	-6.31	PK
V	16530.134	43.13	10.12	38.80	42.70	49.35	54	-4.65	AV
H	4434.081	64.46	5.94	35.18	44.00	61.58	74	-12.42	PK
H	4434.081	43.32	5.94	35.18	44.00	40.44	54	-13.56	AV
H	11020.002	50.22	8.46	38.71	44.50	52.89	68.2	-15.31	PK
H	11020.002	44.87	8.46	38.71	44.50	47.54	54	-6.46	AV
H	16530.097	54.45	10.12	38.38	44.10	58.85	74	-15.15	PK
H	16530.097	40.96	10.12	38.38	44.10	45.36	54	-8.64	AV
Middle Channel (5590 MHz)-Above 1G									
V	4592.124	62.61	6.48	36.35	44.05	61.39	74	-12.61	PK
V	4592.124	43.37	6.48	36.35	44.05	42.15	54	-11.85	AV
V	11100.078	61.66	8.47	37.88	44.51	63.50	68.2	-4.70	PK
V	11100.078	43.47	8.47	37.88	44.51	45.31	54	-8.69	AV
V	16650.010	60.06	10.12	38.80	44.10	64.88	74	-9.12	PK
V	16650.010	43.94	10.12	38.80	42.70	50.16	54	-3.84	AV
H	4592.032	63.52	6.48	36.37	44.05	62.32	74	-11.68	PK
H	4592.032	43.73	6.48	36.37	44.05	42.53	54	-11.47	AV
H	11100.160	53.70	8.47	38.64	44.50	56.31	68.2	-11.89	PK
H	11100.160	41.31	8.47	38.64	44.50	43.92	54	-10.08	AV
H	16650.180	50.80	10.12	38.38	44.10	55.20	74	-18.80	PK
H	16650.180	44.12	10.12	38.38	44.10	48.52	54	-5.48	AV
High Channel (5670 MHz)-Above 1G									
V	4739.172	61.96	6.48	36.35	44.05	60.74	68.2	-7.46	PK
V	4739.172	43.93	6.48	36.35	44.05	42.71	54	-11.29	AV
V	11340.146	63.03	8.47	37.88	44.51	64.87	68.2	-3.33	PK
V	11340.146	43.75	8.47	37.88	44.51	45.59	54	-8.41	AV
V	17010.046	60.50	10.12	38.80	44.10	65.32	74	-8.68	PK
V	17010.046	43.14	10.12	38.80	42.70	49.36	54	-4.64	AV
H	4739.084	64.81	6.48	36.37	44.05	63.61	68.2	-4.59	PK
H	4739.084	43.19	6.48	36.37	44.05	41.99	54	-12.01	AV
H	11340.112	51.34	8.47	38.64	44.50	53.95	68.2	-14.25	PK
H	11340.112	43.74	8.47	38.64	44.50	46.35	54	-7.65	AV
H	17010.104	51.61	10.12	38.38	44.10	56.01	74	-17.99	PK
H	17010.104	43.57	10.12	38.38	44.10	47.97	54	-6.03	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode:	TX(5.6G) - 802.11ac-HT80
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
(5530 MHz)-Above 1G									
V	4434.043	62.12	5.94	35.40	44.00	59.46	68.2	-8.74	PK
V	4434.043	43.40	5.94	35.40	44.00	40.74	54	-13.26	AV
V	11060.026	61.27	8.46	39.75	44.50	64.98	68.2	-3.22	PK
V	11060.026	43.18	8.46	39.75	44.50	46.89	54	-7.11	AV
V	16590.031	61.11	10.12	38.80	44.10	65.93	74	-8.07	PK
V	16590.031	43.02	10.12	38.80	42.70	49.24	54	-4.76	AV
H	4434.166	61.15	5.94	35.18	44.00	58.27	68.2	-9.93	PK
H	4434.166	43.88	5.94	35.18	44.00	41.00	54	-13.00	AV
H	11060.200	53.60	8.46	38.71	44.50	56.27	68.2	-11.93	PK
H	11060.200	43.79	8.46	38.71	44.50	46.46	54	-7.54	AV
H	16590.067	52.82	10.12	38.38	44.10	57.22	74	-16.78	PK
H	16590.067	44.00	10.12	38.38	44.10	48.40	54	-5.60	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) - 802.11a
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.052	56.84	5.94	35.40	44.00	54.18	74	-19.82	PK
V	4679.052	43.05	5.94	35.40	44.00	40.39	54	-13.61	AV
V	11490.149	57.72	8.46	39.75	44.50	61.43	68.2	-6.77	PK
V	11490.149	43.76	8.46	39.75	44.50	47.47	54	-6.53	AV
V	17235.055	59.28	10.12	38.80	44.10	64.10	68.2	-4.10	PK
V	17235.055	43.54	10.12	38.80	42.70	49.76	54	-4.24	AV
H	4679.138	58.88	5.94	35.18	44.00	56.00	74	-18.00	PK
H	4679.138	43.43	5.94	35.18	44.00	40.55	54	-13.45	AV
H	11490.132	53.58	8.46	38.71	44.50	56.25	68.2	-11.95	PK
H	11490.132	41.23	8.46	38.71	44.50	43.90	54	-10.10	AV
H	17235.157	52.68	10.12	38.38	44.10	57.08	68.2	-11.12	PK
H	17235.157	40.32	10.12	38.38	44.10	44.72	54	-9.28	AV
Middle Channel (5785 MHz)-Above 1G									
V	4592.153	57.92	6.48	36.35	44.05	56.70	74	-17.30	PK
V	4592.153	43.92	6.48	36.35	44.05	42.70	54	-11.30	AV
V	11570.056	56.51	8.47	37.88	44.51	58.35	68.2	-9.85	PK
V	11570.056	43.60	8.47	37.88	44.51	45.44	54	-8.56	AV
V	17355.090	56.55	10.12	38.80	44.10	61.37	68.2	-6.83	PK
V	17355.090	39.50	10.12	38.80	42.70	45.72	54	-8.28	AV
H	4592.093	58.10	6.48	36.37	44.05	56.90	74	-17.10	PK
H	4592.093	43.05	6.48	36.37	44.05	41.85	54	-12.15	AV
H	11570.133	52.06	8.47	38.64	44.50	54.67	68.2	-13.53	PK
H	11570.133	41.96	8.47	38.64	44.50	44.57	54	-9.43	AV
H	17355.021	50.07	10.12	38.38	44.10	54.47	68.2	-13.73	PK
H	17355.021	40.13	10.12	38.38	44.10	44.53	54	-9.47	AV
High Channel (5825 MHz)-Above 1G									
V	6039.029	58.35	7.10	37.24	43.50	59.19	68.2	-9.01	PK
V	6039.029	43.62	7.10	37.24	43.50	44.46	54	-9.54	AV
V	11650.111	59.56	8.46	37.68	44.50	61.20	74	-12.80	PK
V	11650.111	43.79	8.46	37.68	44.50	45.43	54	-8.57	AV
V	17475.034	56.73	10.12	38.80	44.10	61.55	68.2	-6.65	PK
V	17475.034	43.73	10.12	38.80	42.70	49.95	54	-4.05	AV
H	6039.168	55.53	7.10	37.24	43.50	56.37	68.2	-11.83	PK
H	6039.168	43.90	7.10	37.24	43.50	44.74	54	-9.26	AV
H	11650.029	54.16	8.46	38.57	44.50	56.69	74	-17.31	PK
H	11650.029	42.40	8.46	38.57	44.50	44.93	54	-9.07	AV
H	17475.179	53.33	10.12	38.38	44.10	57.73	68.2	-10.47	PK
H	17475.179	42.02	10.12	38.38	44.10	46.42	54	-7.58	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
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.107	58.21	5.94	35.40	44.00	55.55	74	-18.45	PK
V	4679.107	43.09	5.94	35.40	44.00	40.43	54	-13.57	AV
V	11490.175	54.37	8.46	39.75	44.50	58.08	68.2	-10.12	PK
V	11490.175	43.52	8.46	39.75	44.50	47.23	54	-6.77	AV
V	17235.163	61.19	10.12	38.80	44.10	66.01	68.2	-2.19	PK
V	17235.163	43.96	10.12	38.80	42.70	50.18	54	-3.82	AV
H	4679.112	56.15	5.94	35.18	44.00	53.27	74	-20.73	PK
H	4679.112	43.72	5.94	35.18	44.00	40.84	54	-13.16	AV
H	11490.153	51.61	8.46	38.71	44.50	54.28	68.2	-13.92	PK
H	11490.153	40.59	8.46	38.71	44.50	43.26	54	-10.74	AV
H	17235.186	51.18	10.12	38.38	44.10	55.58	68.2	-12.62	PK
H	17235.186	42.96	10.12	38.38	44.10	47.36	54	-6.64	AV
Middle Channel (5785 MHz)-Above 1G									
V	4592.150	59.79	6.48	36.35	44.05	58.57	74	-15.43	PK
V	4592.150	43.13	6.48	36.35	44.05	41.91	54	-12.09	AV
V	11570.112	54.06	8.47	37.88	44.51	55.90	68.2	-12.30	PK
V	11570.112	43.48	8.47	37.88	44.51	45.32	54	-8.68	AV
V	17355.144	57.81	10.12	38.80	44.10	62.63	68.2	-5.57	PK
V	17355.144	43.29	10.12	38.80	42.70	49.51	54	-4.49	AV
H	4592.193	59.09	6.48	36.37	44.05	57.89	74	-16.11	PK
H	4592.193	43.93	6.48	36.37	44.05	42.73	54	-11.27	AV
H	11570.073	53.93	8.47	38.64	44.50	56.54	68.2	-11.66	PK
H	11570.073	42.27	8.47	38.64	44.50	44.88	54	-9.12	AV
H	17355.143	50.63	10.12	38.38	44.10	55.03	68.2	-13.17	PK
H	17355.143	43.32	10.12	38.38	44.10	47.72	54	-6.28	AV
High Channel (5825 MHz)-Above 1G									
V	6039.076	55.75	7.10	37.24	43.50	56.59	68.2	-11.61	PK
V	6039.076	43.53	7.10	37.24	43.50	44.37	54	-9.63	AV
V	11650.161	56.54	8.46	37.68	44.50	58.18	74	-15.82	PK
V	11650.161	43.36	8.46	37.68	44.50	45.00	54	-9.00	AV
V	17475.013	56.22	10.12	38.80	44.10	61.04	68.2	-7.16	PK
V	17475.013	43.81	10.12	38.80	42.70	50.03	54	-3.97	AV
H	6039.005	56.96	7.10	37.24	43.50	57.80	68.2	-10.40	PK
H	6039.005	43.56	7.10	37.24	43.50	44.40	54	-9.60	AV
H	11650.137	54.85	8.46	38.57	44.50	57.38	74	-16.62	PK
H	11650.137	43.79	8.46	38.57	44.50	46.32	54	-7.68	AV
H	17475.019	52.13	10.12	38.38	44.10	56.53	68.2	-11.67	PK
H	17475.019	43.22	10.12	38.38	44.10	47.62	54	-6.38	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(5.8G) - 802.11n-HT40
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G									
V	4679.142	56.05	5.94	35.40	44.00	53.39	74	-20.61	PK
V	4679.142	43.49	5.94	35.40	44.00	40.83	54	-13.17	AV
V	11510.099	55.15	8.46	39.75	44.50	58.86	74	-15.14	PK
V	11510.099	43.97	8.46	39.75	44.50	47.68	54	-6.32	AV
V	17265.040	57.66	10.12	38.80	44.10	62.48	68.2	-5.72	PK
V	17265.040	2.00	10.12	38.80	42.70	8.22	54	-45.78	AV
H	4679.042	56.82	5.94	35.18	44.00	53.94	74	-20.06	PK
H	4679.042	43.02	5.94	35.18	44.00	40.14	54	-13.86	AV
H	11510.173	50.61	8.46	38.71	44.50	53.28	74	-20.72	PK
H	11510.173	42.33	8.46	38.71	44.50	45.00	54	-9.00	AV
H	17265.060	50.47	10.12	38.38	44.10	54.87	68.2	-13.33	PK
H	17265.060	42.17	10.12	38.38	44.10	46.57	54	-7.43	AV
High Channel (5795 MHz)-Above 1G									
V	6039.068	56.67	6.48	36.35	44.05	55.45	68.2	-12.75	PK
V	6039.068	43.72	6.48	36.35	44.05	42.50	54	-11.50	AV
V	11590.198	55.58	8.47	37.88	44.51	57.42	74	-16.58	PK
V	11590.198	43.30	8.47	37.88	44.51	45.14	54	-8.86	AV
V	17385.011	55.84	10.12	38.80	44.10	60.66	68.2	-7.54	PK
V	17385.011	41.70	10.12	38.80	42.70	47.92	54	-6.08	AV
H	6039.135	56.02	6.48	36.37	44.05	54.82	68.2	-13.38	PK
H	6039.135	43.87	6.48	36.37	44.05	42.67	54	-11.33	AV
H	11590.158	53.06	8.47	38.64	44.50	55.67	74	-18.33	PK
H	11590.158	44.94	8.47	38.64	44.50	47.55	54	-6.45	AV
H	17385.180	52.87	10.12	38.38	44.10	57.27	68.2	-10.93	PK
H	17385.180	40.66	10.12	38.38	44.10	45.06	54	-8.94	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode:	TX(5.8G) - 802.11ac-HT20
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.179	60.31	5.94	35.40	44.00	57.65	74	-16.35	PK
V	4679.179	43.99	5.94	35.40	44.00	41.33	54	-12.67	AV
V	11490.010	53.35	8.46	39.75	44.50	57.06	68.2	-11.14	PK
V	11490.010	43.73	8.46	39.75	44.50	47.44	54	-6.56	AV
V	17235.009	61.63	10.12	38.80	44.10	66.45	68.2	-1.75	PK
V	17235.009	43.92	10.12	38.80	42.70	50.14	54	-3.86	AV
H	4679.059	58.81	5.94	35.18	44.00	55.93	74	-18.07	PK
H	4679.059	43.74	5.94	35.18	44.00	40.86	54	-13.14	AV
H	11490.052	50.65	8.46	38.71	44.50	53.32	68.2	-14.88	PK
H	11490.052	42.89	8.46	38.71	44.50	45.56	54	-8.44	AV
H	17235.145	50.97	10.12	38.38	44.10	55.37	68.2	-12.83	PK
H	17235.145	42.65	10.12	38.38	44.10	47.05	54	-6.95	AV
Middle Channel (5785 MHz)-Above 1G									
V	4592.163	59.00	6.48	36.35	44.05	57.78	74	-16.22	PK
V	4592.163	43.54	6.48	36.35	44.05	42.32	54	-11.68	AV
V	11570.082	58.07	8.47	37.88	44.51	59.91	68.2	-8.29	PK
V	11570.082	43.06	8.47	37.88	44.51	44.90	54	-9.10	AV
V	17355.167	61.75	10.12	38.80	44.10	66.57	68.2	-1.63	PK
V	17355.167	43.42	10.12	38.80	42.70	49.64	54	-4.36	AV
H	4592.079	56.41	6.48	36.37	44.05	55.21	74	-18.79	PK
H	4592.079	43.06	6.48	36.37	44.05	41.86	54	-12.14	AV
H	11570.113	50.40	8.47	38.64	44.50	53.01	68.2	-15.19	PK
H	11570.113	42.44	8.47	38.64	44.50	45.05	54	-8.95	AV
H	17355.131	51.71	10.12	38.38	44.10	56.11	68.2	-12.09	PK
H	17355.131	41.36	10.12	38.38	44.10	45.76	54	-8.24	AV
High Channel (5825 MHz)-Above 1G									
V	6039.008	58.95	7.10	37.24	43.50	59.79	68.2	-8.41	PK
V	6039.008	43.84	7.10	37.24	43.50	44.68	54	-9.32	AV
V	11650.134	58.20	8.46	37.68	44.50	59.84	74	-14.16	PK
V	11650.134	43.21	8.46	37.68	44.50	44.85	54	-9.15	AV
V	17475.074	59.93	10.12	38.80	44.10	64.75	68.2	-3.45	PK
V	17475.074	43.89	10.12	38.80	42.70	50.11	54	-3.89	AV
H	6039.132	56.23	7.10	37.24	43.50	57.07	68.2	-11.13	PK
H	6039.132	43.01	7.10	37.24	43.50	43.85	54	-10.15	AV
H	11650.112	54.33	8.46	38.57	44.50	56.86	74	-17.14	PK
H	11650.112	40.17	8.46	38.57	44.50	42.70	54	-11.30	AV
H	17475.032	51.09	10.12	38.38	44.10	55.49	68.2	-12.71	PK
H	17475.032	44.17	10.12	38.38	44.10	48.57	54	-5.43	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) - 802.11ac-HT40
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G									
V	4679.033	58.35	5.94	35.40	44.00	55.69	74	-18.31	PK
V	4679.033	43.89	5.94	35.40	44.00	41.23	54	-12.77	AV
V	11510.098	55.50	8.46	39.75	44.50	59.21	74	-14.79	PK
V	11510.098	43.55	8.46	39.75	44.50	47.26	54	-6.74	AV
V	17265.112	58.90	10.12	38.80	44.10	63.72	68.2	-4.48	PK
V	17265.112	2.00	10.12	38.80	42.70	8.22	54	-45.78	AV
H	4679.132	60.74	5.94	35.18	44.00	57.86	74	-16.14	PK
H	4679.132	43.01	5.94	35.18	44.00	40.13	54	-13.87	AV
H	11510.051	53.92	8.46	38.71	44.50	56.59	74	-17.41	PK
H	11510.051	41.62	8.46	38.71	44.50	44.29	54	-9.71	AV
H	17265.181	52.08	10.12	38.38	44.10	56.48	68.2	-11.72	PK
H	17265.181	42.61	10.12	38.38	44.10	47.01	54	-6.99	AV
High Channel (5795 MHz)-Above 1G									
V	6039.167	58.35	6.48	36.35	44.05	57.13	68.2	-11.07	PK
V	6039.167	43.99	6.48	36.35	44.05	42.77	54	-11.23	AV
V	11590.197	55.85	8.47	37.88	44.51	57.69	74	-16.31	PK
V	11590.197	43.32	8.47	37.88	44.51	45.16	54	-8.84	AV
V	17385.005	55.68	10.12	38.80	44.10	60.50	68.2	-7.70	PK
V	17385.005	41.51	10.12	38.80	42.70	47.73	54	-6.27	AV
H	6039.162	60.20	6.48	36.37	44.05	59.00	68.2	-9.20	PK
H	6039.162	43.12	6.48	36.37	44.05	41.92	54	-12.08	AV
H	11590.188	53.36	8.47	38.64	44.50	55.97	74	-18.03	PK
H	11590.188	41.85	8.47	38.64	44.50	44.46	54	-9.54	AV
H	17385.028	51.08	10.12	38.38	44.10	55.48	68.2	-12.72	PK
H	17385.028	41.99	10.12	38.38	44.10	46.39	54	-7.61	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 (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
(5775 MHz)-Above 1G									
V	4679.138	56.11	5.94	35.40	44.00	53.45	74	-20.55	PK
V	4679.138	43.45	5.94	35.40	44.00	40.79	54	-13.21	AV
V	11550.161	59.39	8.46	39.75	44.50	63.10	74	-10.90	PK
V	11550.161	43.54	8.46	39.75	44.50	47.25	54	-6.75	AV
V	17325.171	57.06	10.12	38.80	44.10	61.88	68.2	-6.32	PK
V	17325.171	41.08	10.12	38.80	42.70	47.30	54	-6.70	AV
H	4679.125	55.05	5.94	35.18	44.00	52.17	74	-21.83	PK
H	4679.125	43.90	5.94	35.18	44.00	41.02	54	-12.98	AV
H	11550.192	54.71	8.46	38.71	44.50	57.38	74	-16.62	PK
H	11550.192	40.37	8.46	38.71	44.50	43.04	54	-10.96	AV
H	17325.170	51.58	10.12	38.38	44.10	55.98	68.2	-12.22	PK
H	17325.170	41.12	10.12	38.38	44.10	45.52	54	-8.48	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 ($< 1 \text{ MHz}$, or $< 500 \text{ kHz}$) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $\text{RBW} \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $\text{VBW} \geq 3 \text{ RBW}$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/\text{RBW})$ to the measured result, whereas $\text{RBW} (< 500 \text{ KHz})$ 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 $10\log(1\text{MHz}/\text{RBW})$ to the measured result, whereas $\text{RBW} (< 1 \text{ MHz})$ 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 $\text{RBW}=100 \text{ KHz}$ is available on nearly all spectrum analyzers.

8.4 EUT Operating Conditions

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

8.5 Test Result

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

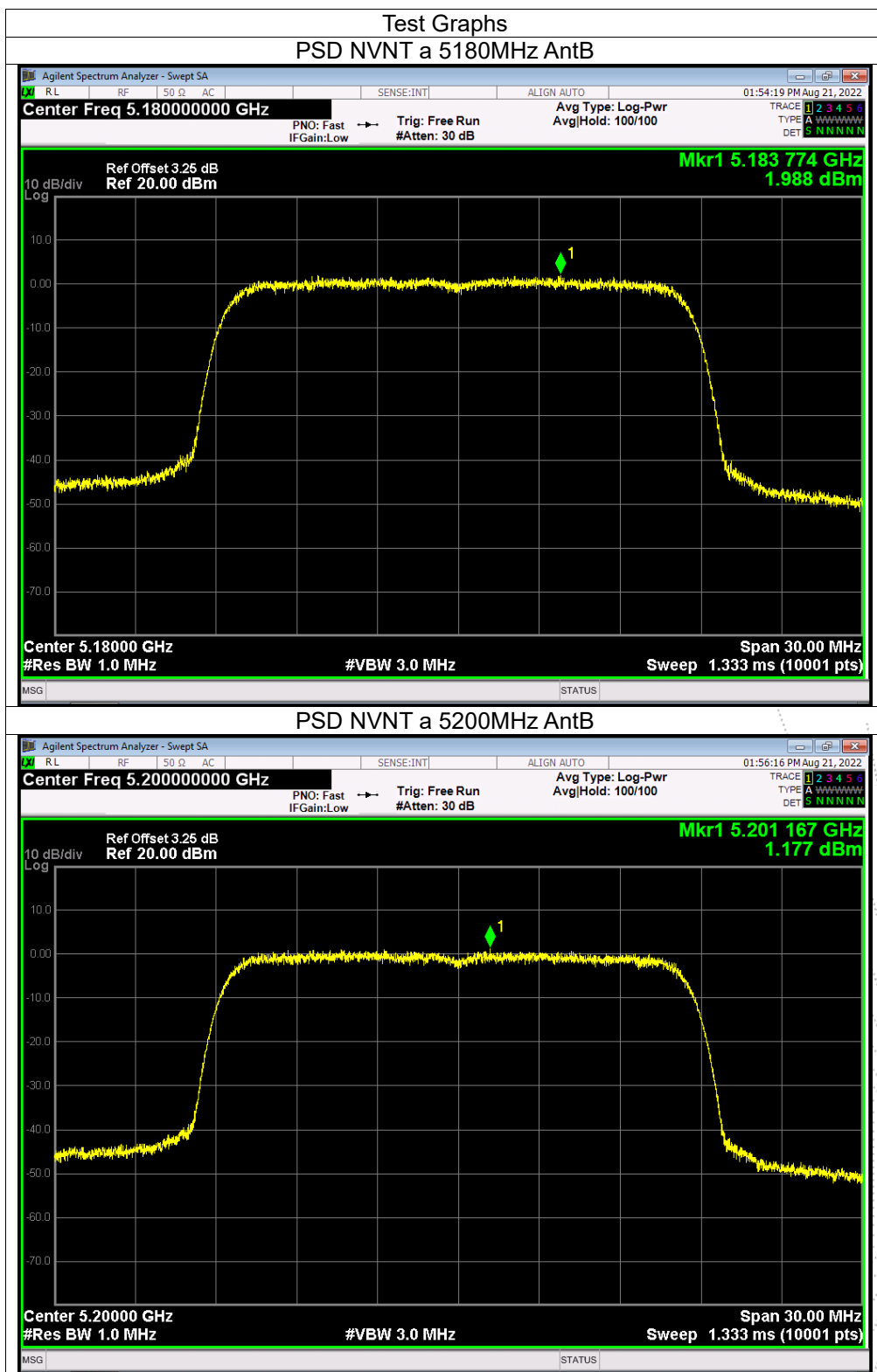
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Ant A	Ant B			
NVNT	a	5180	0.74	1.99	/	11	Pass
NVNT	a	5200	0.35	1.18	/	11	Pass
NVNT	a	5240	0.85	0.29	/	11	Pass
NVNT	n20	5180	-0.94	-1.03	2.03	10.09	Pass
NVNT	n20	5200	-1	-1.96	1.56	10.09	Pass
NVNT	n20	5240	-0.45	-1.23	2.19	10.09	Pass
NVNT	n40	5190	-5.55	-5.11	-2.31	10.09	Pass
NVNT	n40	5230	-4.5	-4.89	-1.68	10.09	Pass
NVNT	ac20	5180	-0.47	-1.02	2.27	10.09	Pass
NVNT	ac20	5200	-1.71	-1.96	1.18	10.09	Pass
NVNT	ac20	5240	0.11	-1.79	2.27	10.09	Pass
NVNT	ac40	5190	-5.68	-4.93	-2.28	10.09	Pass
NVNT	ac40	5230	-4.47	-4.83	-1.64	10.09	Pass
NVNT	ac80	5210	-8.86	-8.47	-5.65	10.09	Pass

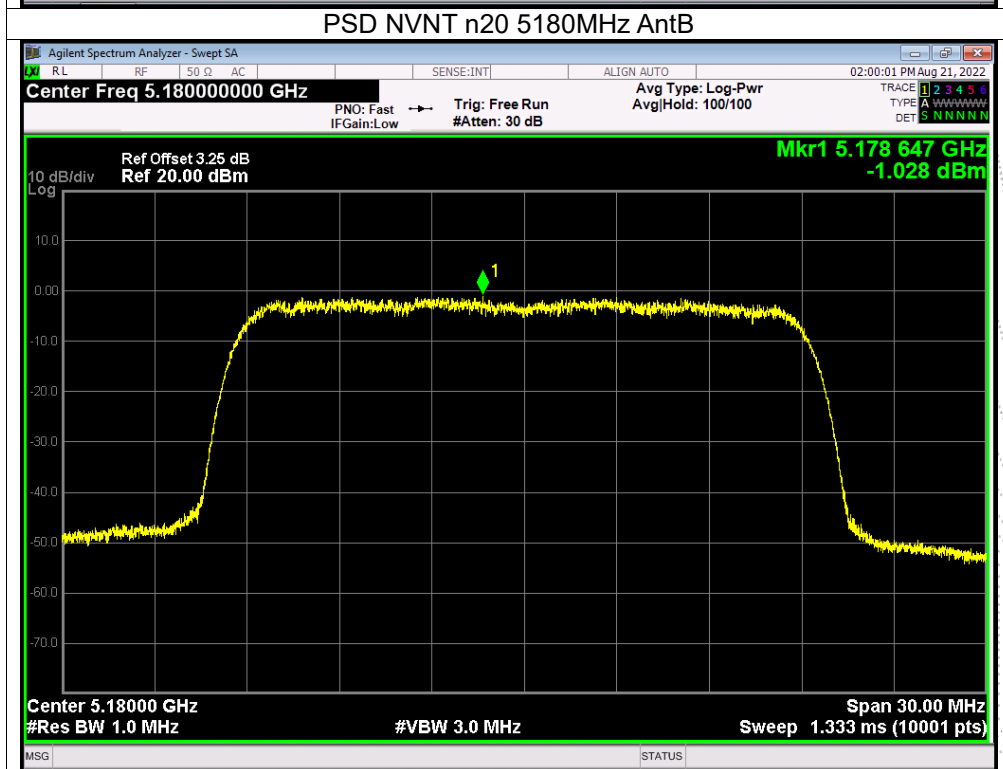
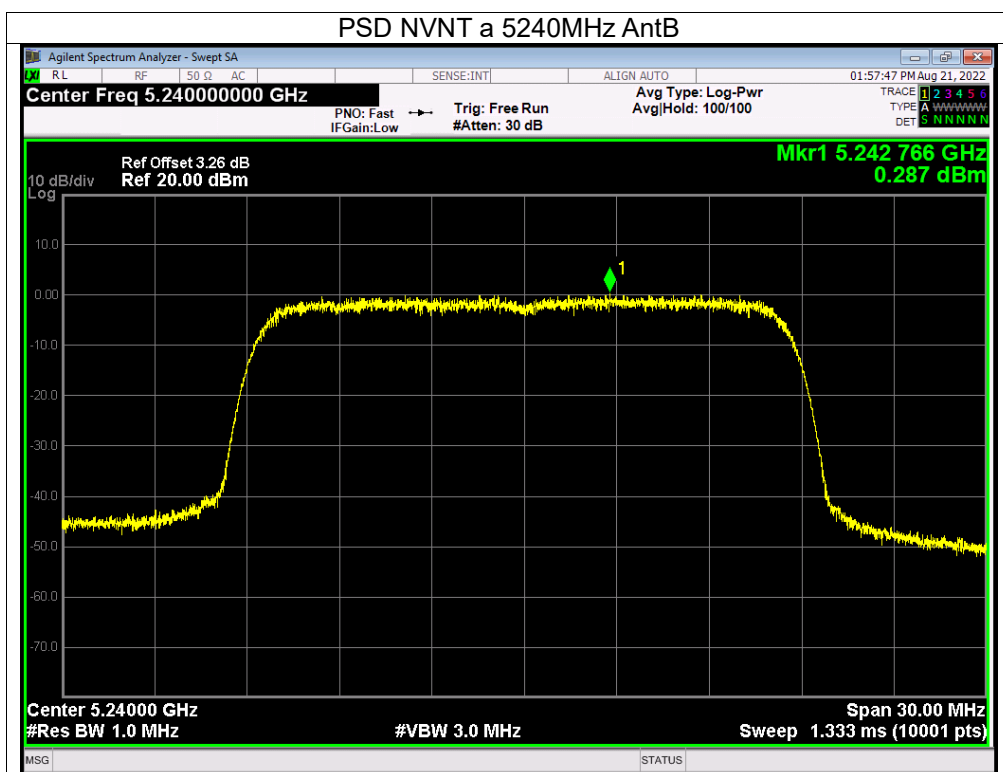
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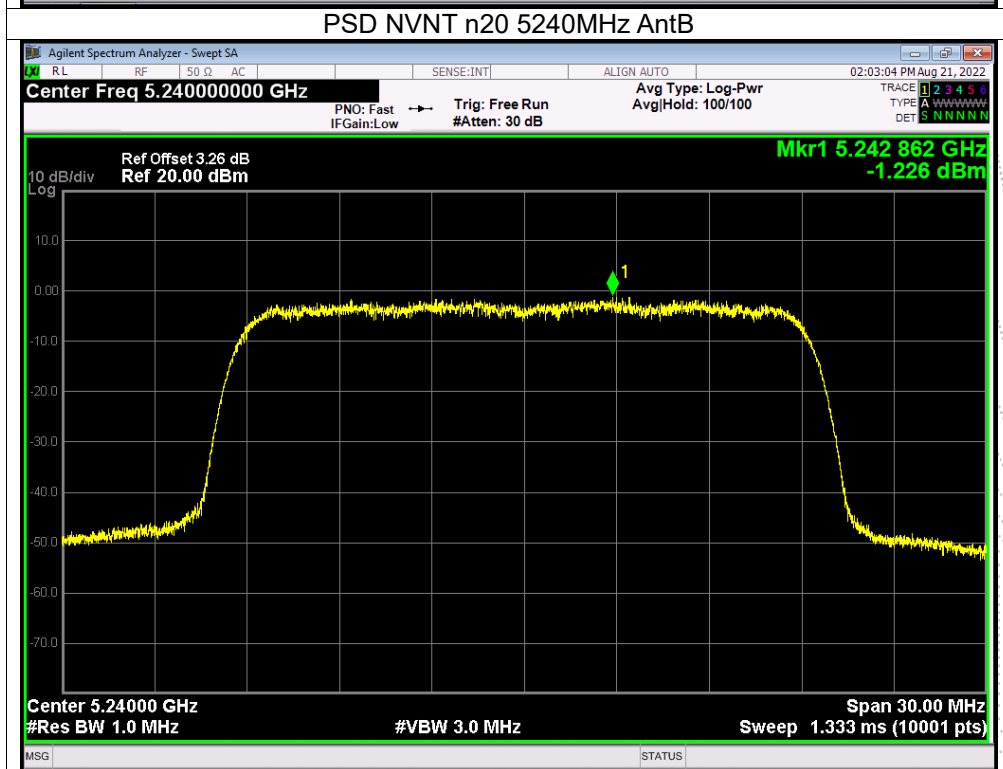
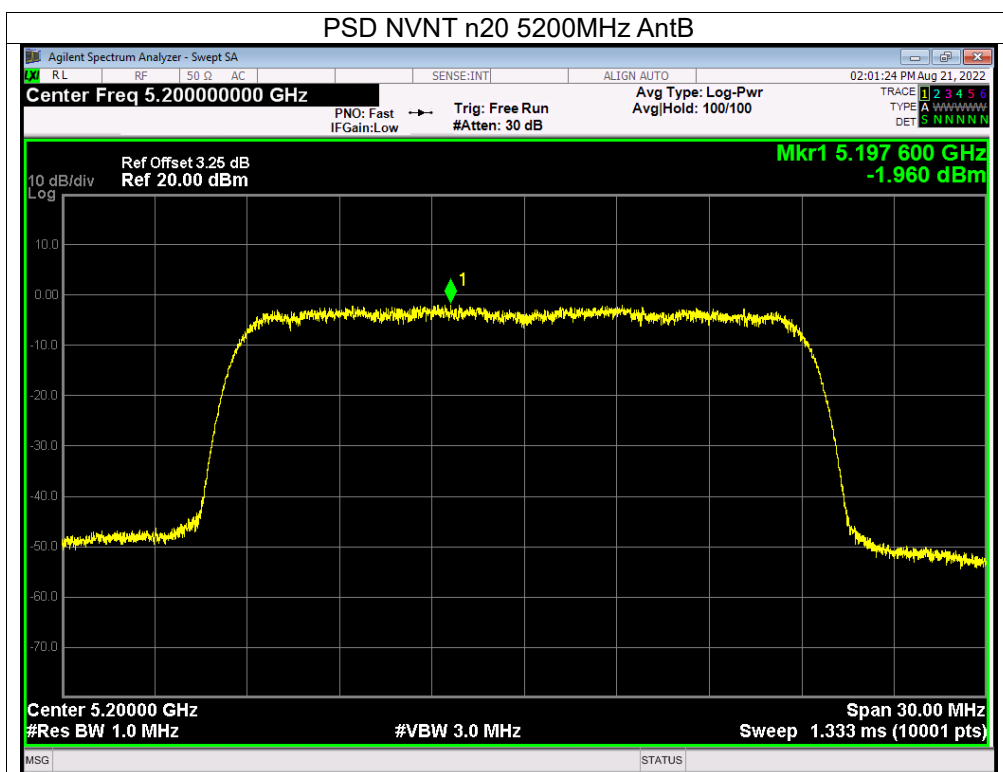
Antenna A gain:3.90 dBi, Antenna B gain: 3.90 dBi, Directional gain=[GainANT + 10 log(NANT) dBi] =6.91 dBi>6dbi

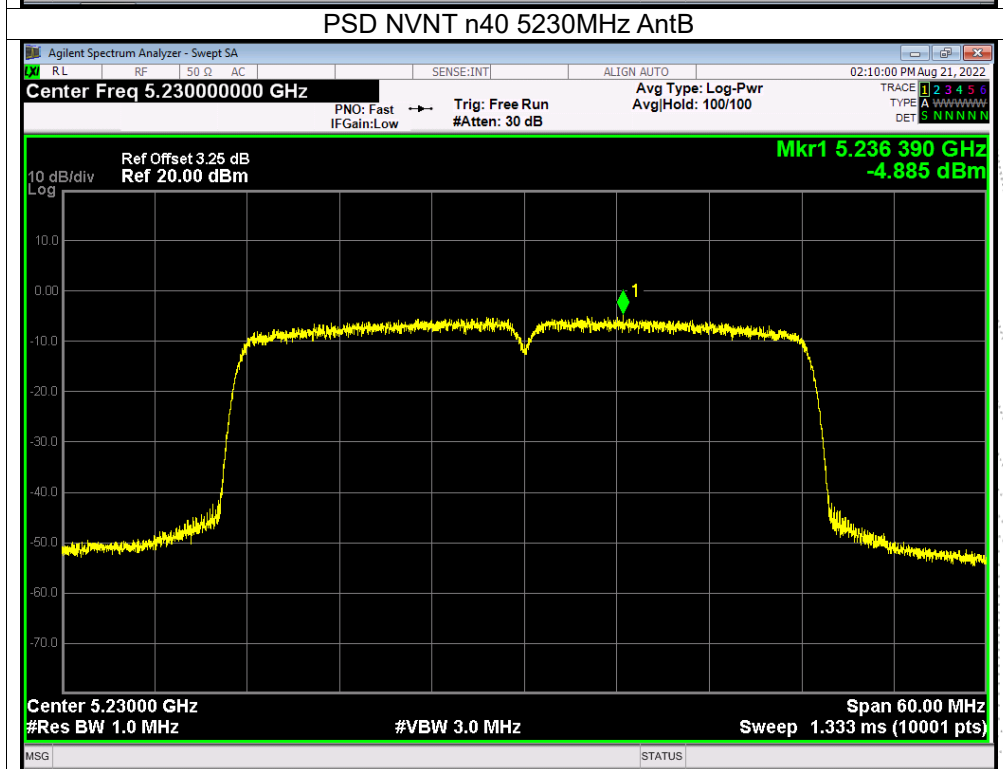
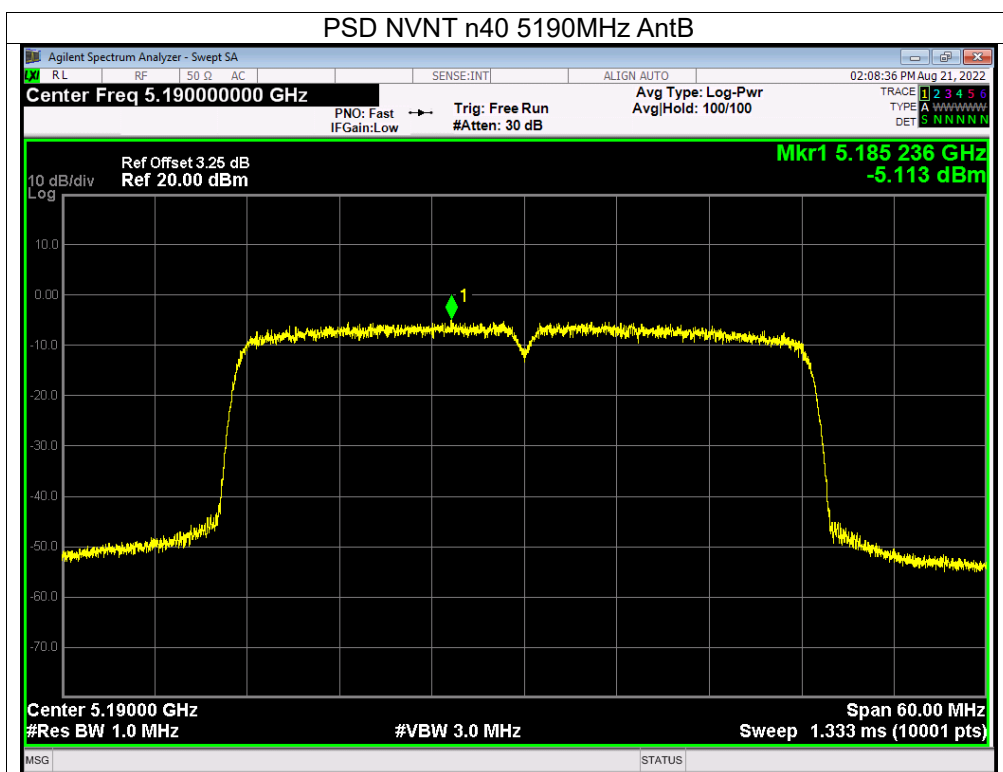
Limit=11-(6.91-6)=10.09 dbi

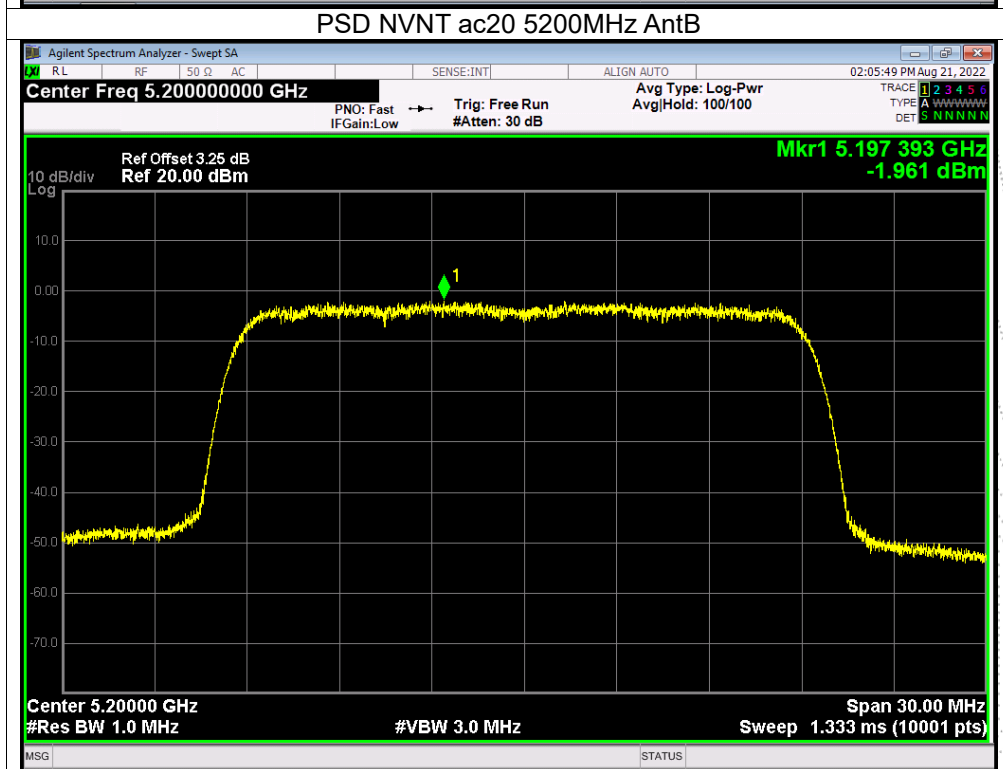
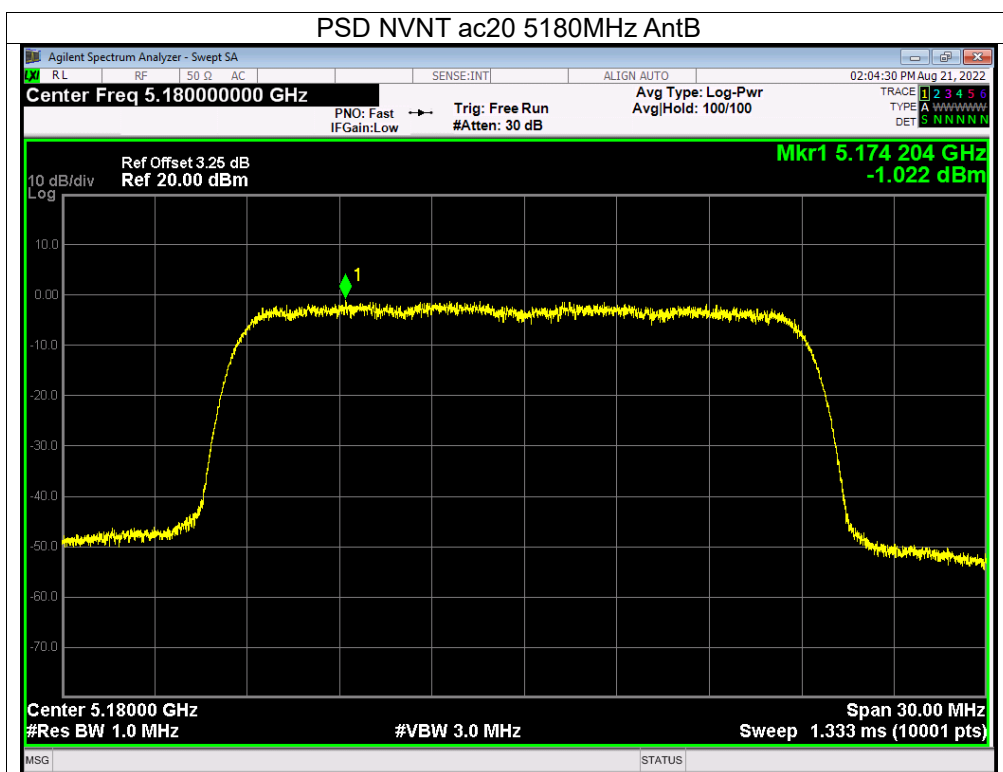
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

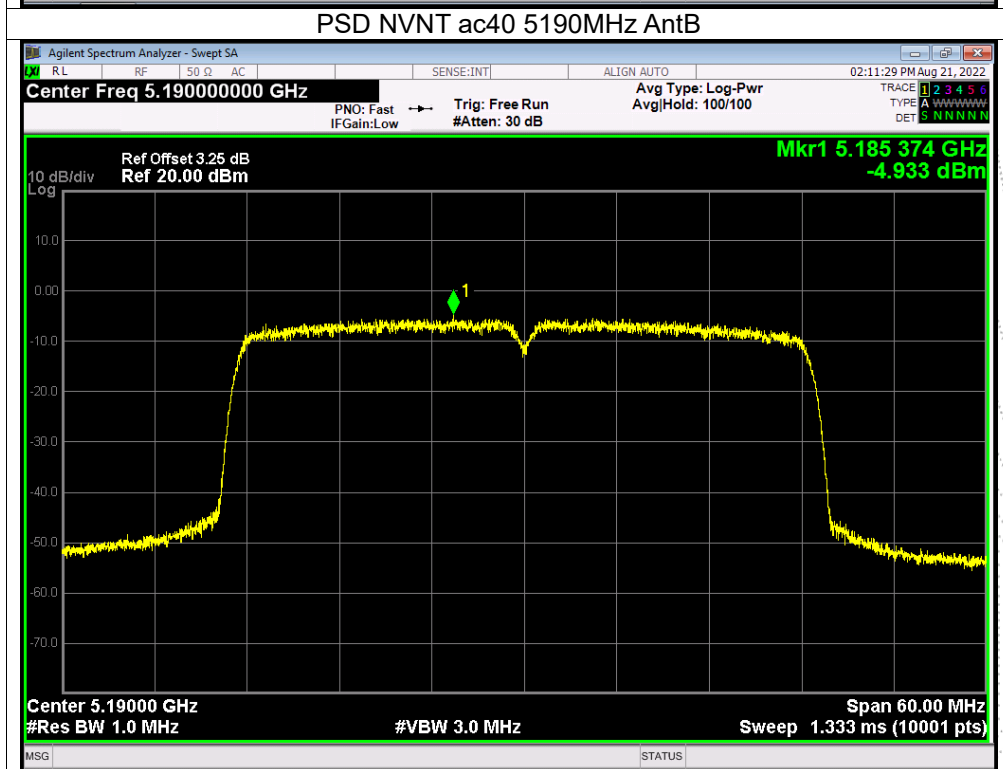
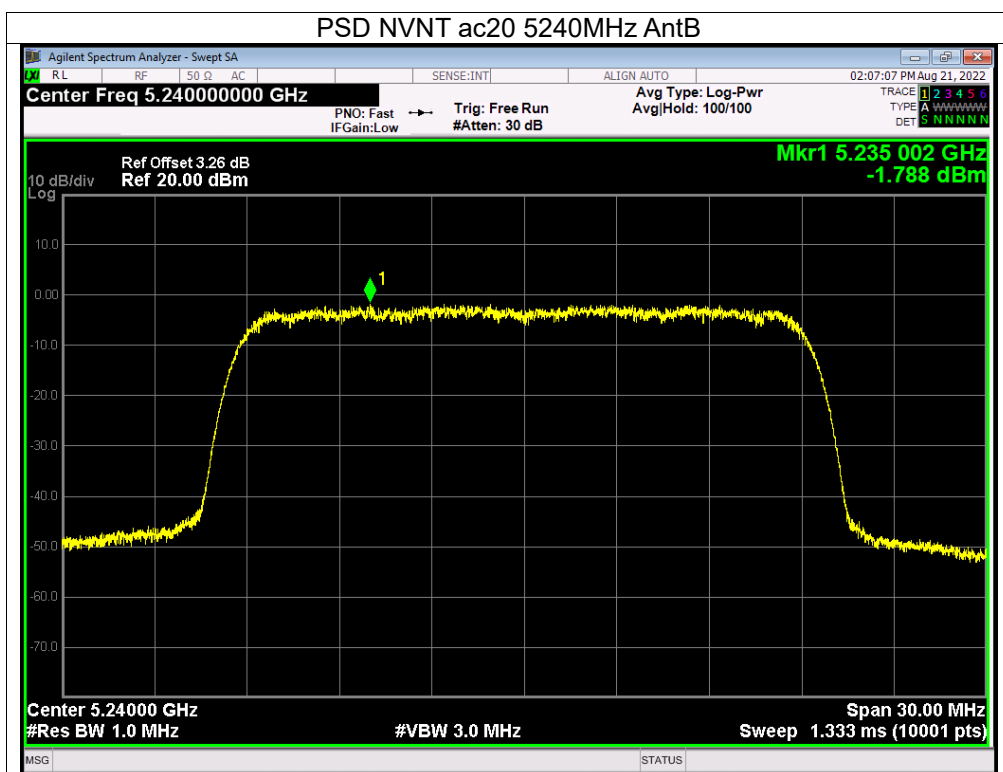


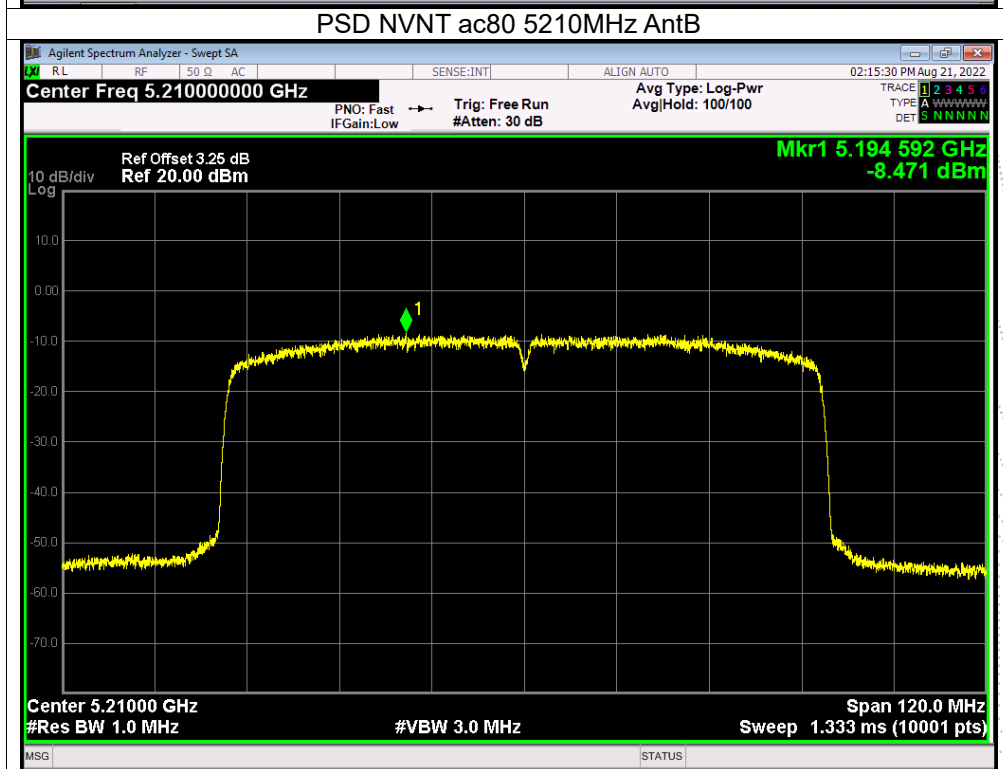
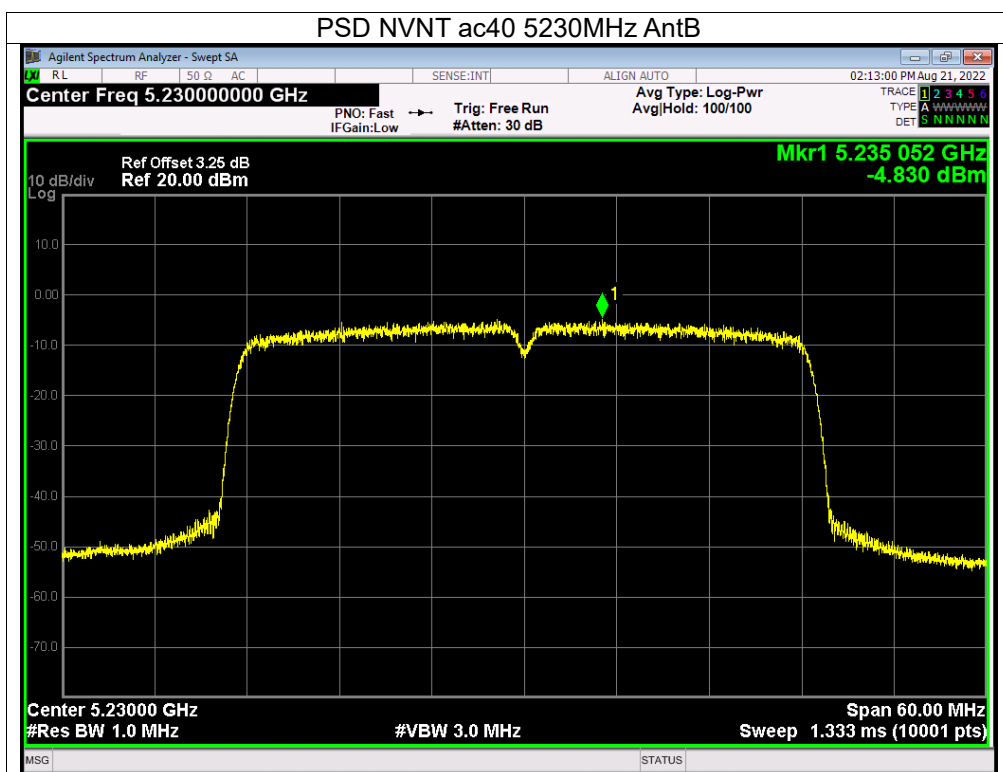












Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5260-5320MHz)		

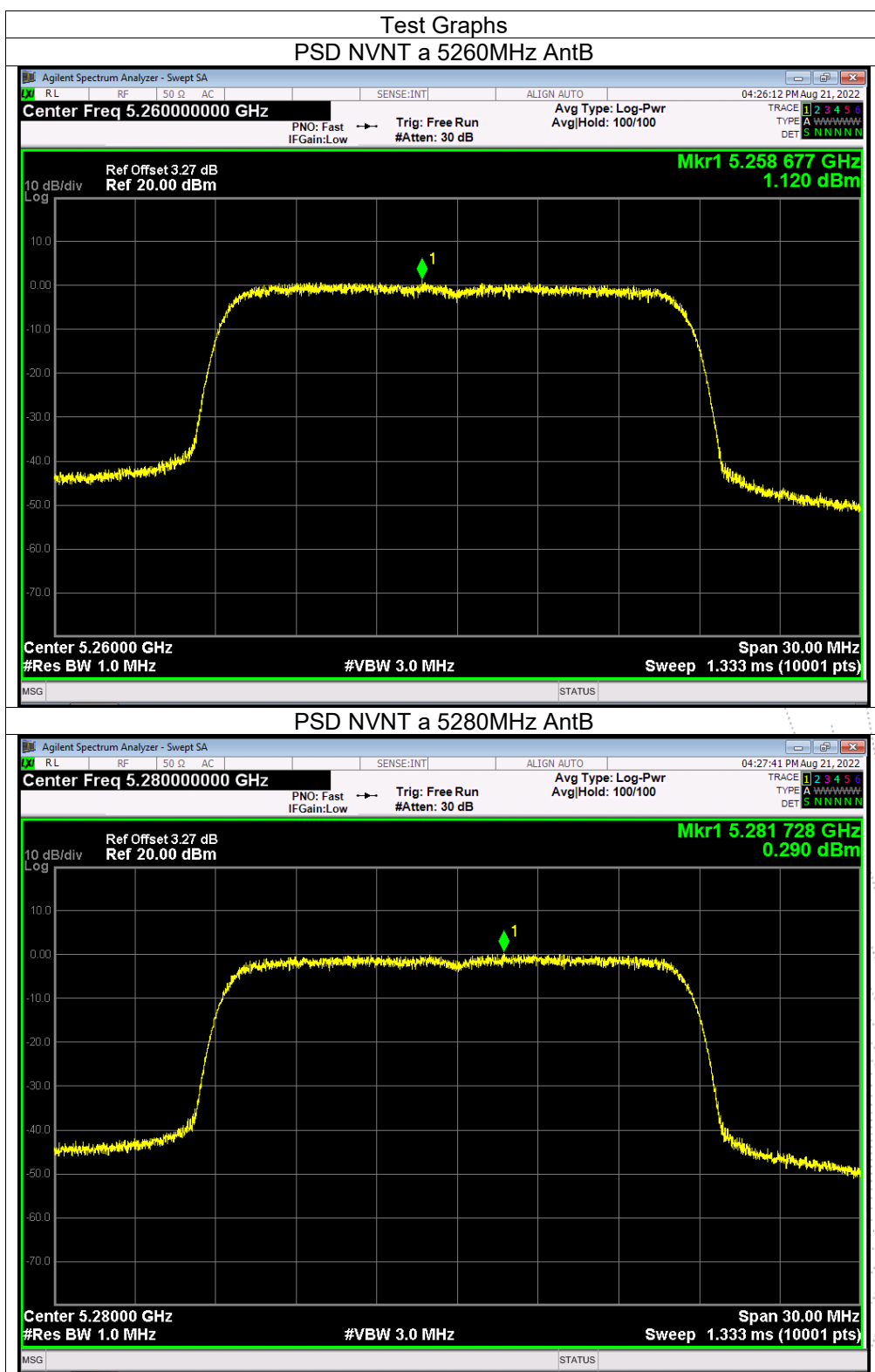
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Ant A	Ant B			
NVNT	a	5260	0.51	1.12	/	11	Pass
NVNT	a	5280	1.07	0.29	/	11	Pass
NVNT	a	5320	0.88	0.87	/	11	Pass
NVNT	n20	5260	-0.56	-0.59	2.44	10.09	Pass
NVNT	n20	5280	-0.17	-1.05	2.42	10.09	Pass
NVNT	n20	5320	-0.71	-0.62	2.35	10.09	Pass
NVNT	n40	5270	-4.08	-4.34	-1.20	10.09	Pass
NVNT	n40	5310	-4.54	-4.69	-1.60	10.09	Pass
NVNT	ac20	5260	-0.67	-0.59	2.38	10.09	Pass
NVNT	ac20	5280	-0.55	-0.89	2.29	10.09	Pass
NVNT	ac20	5320	-0.48	-0.27	2.64	10.09	Pass
NVNT	ac40	5270	-4.41	-4.36	-1.37	10.09	Pass
NVNT	ac40	5310	-4.48	-4.69	-1.57	10.09	Pass
NVNT	ac80	5290	-8.57	-8.95	-5.75	10.09	Pass

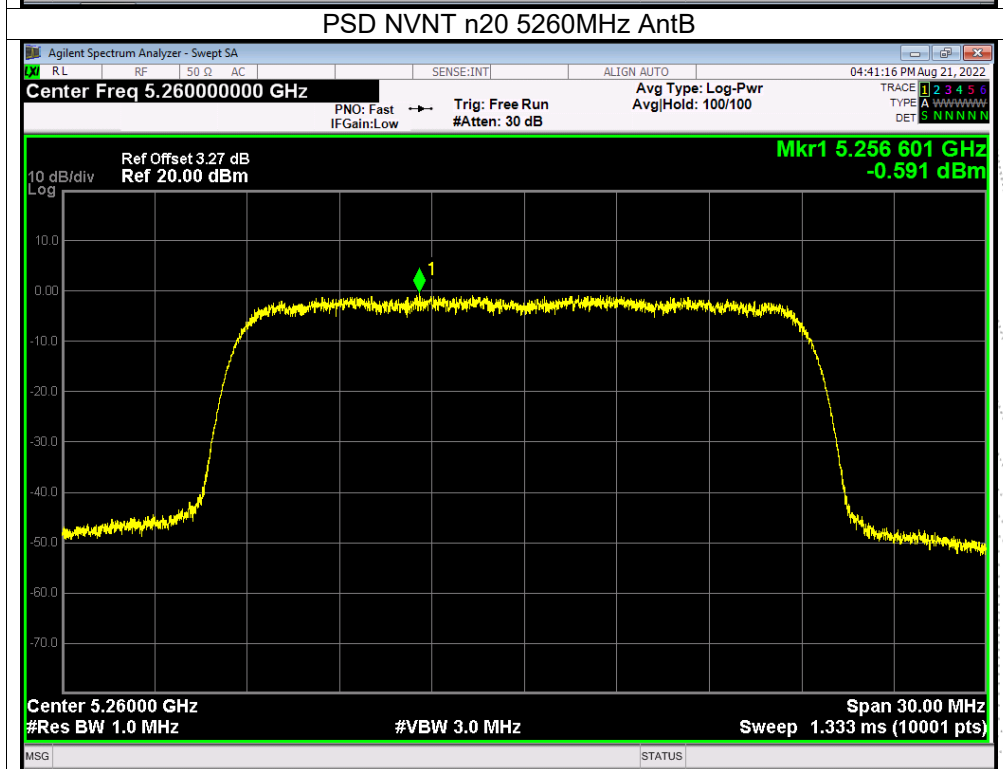
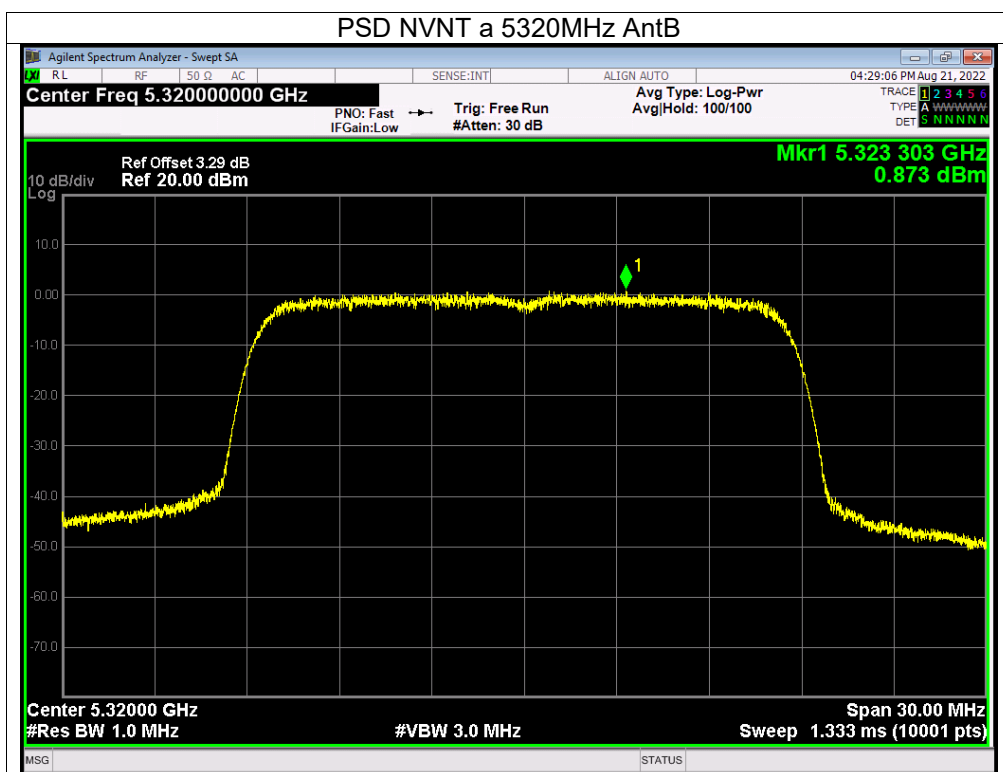
Note:

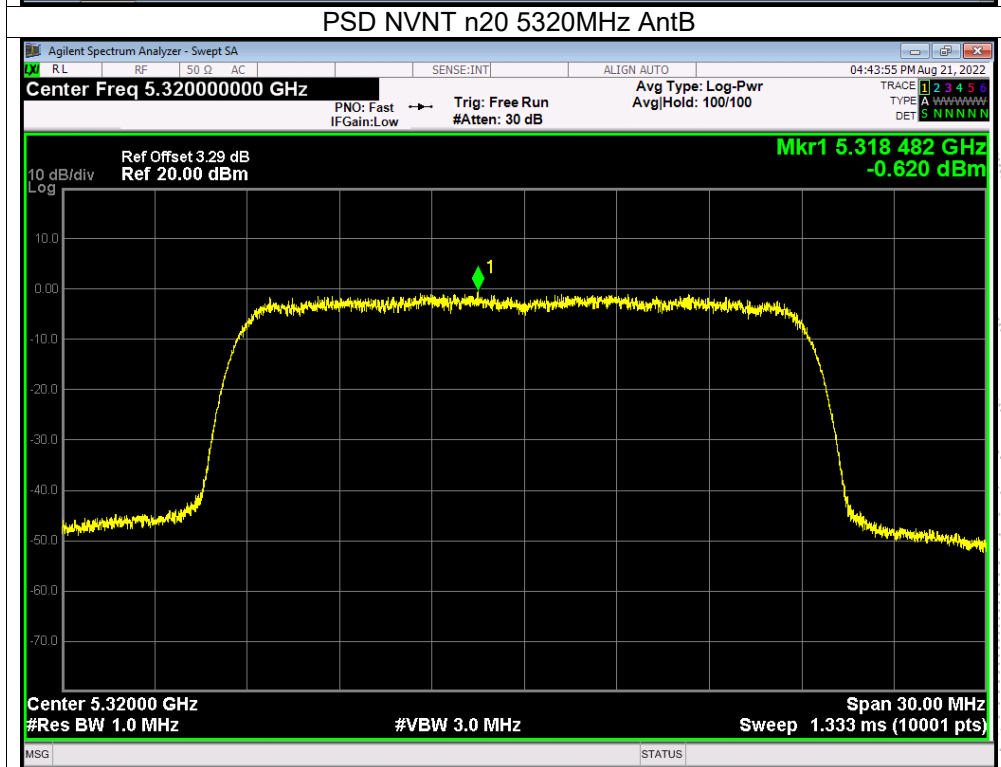
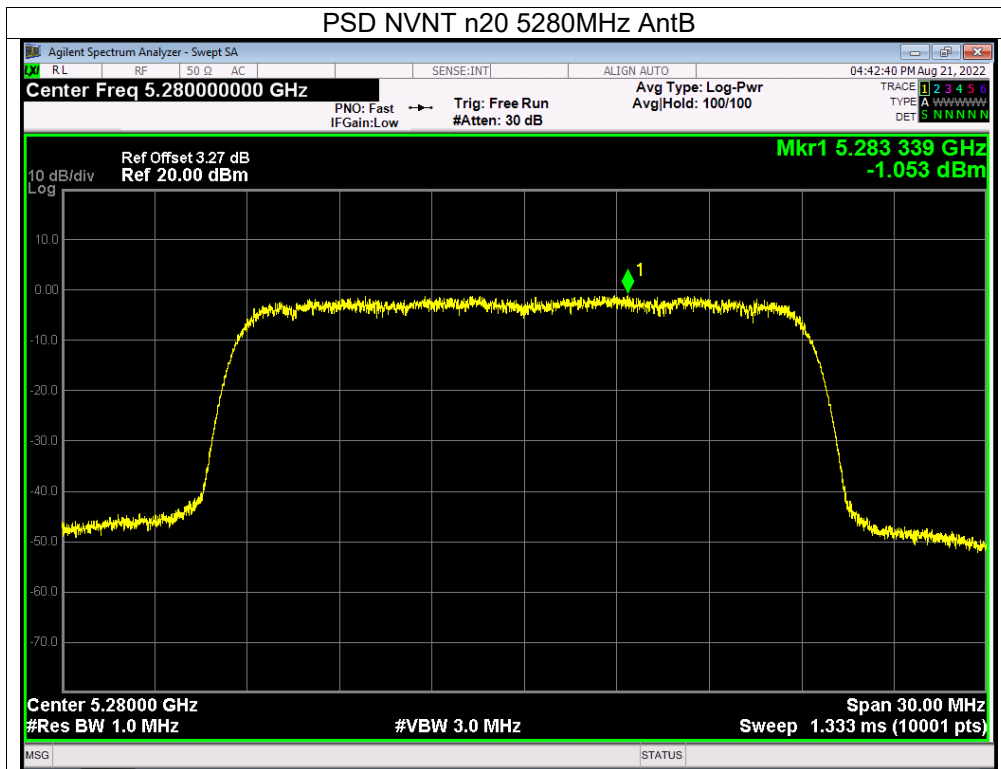
Antenna A gain:3.90 dBi, Antenna B gain: 3.90 dBi, Directional gain=[GainANT + 10 log(NANT) dBi] =6.91 dBi>6dBi

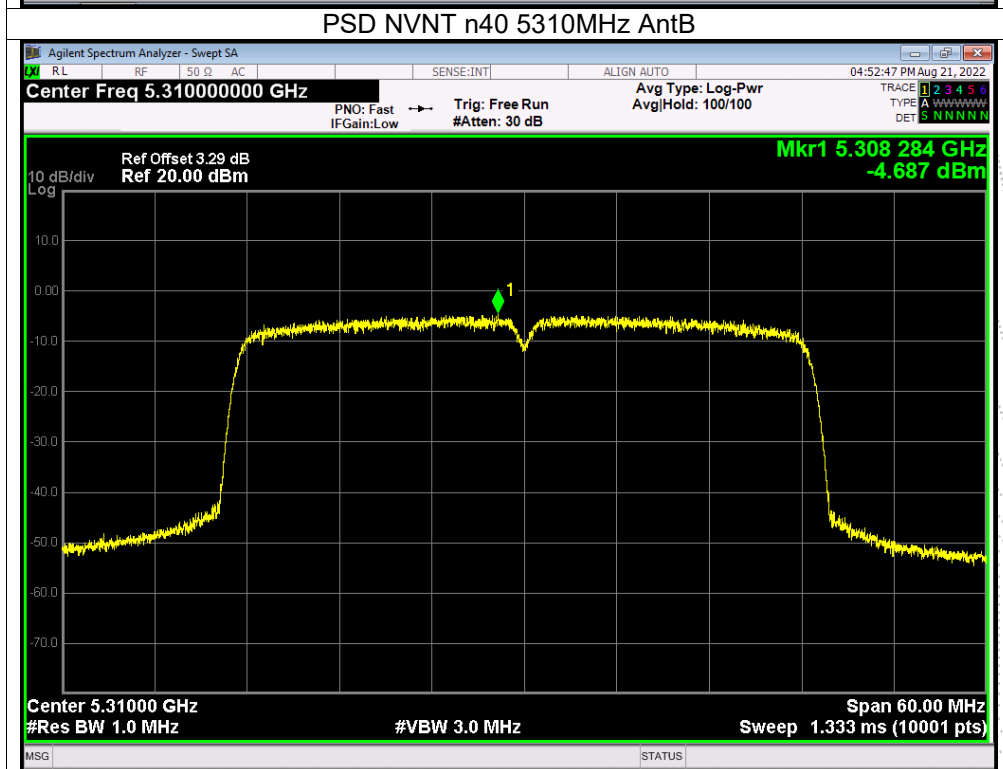
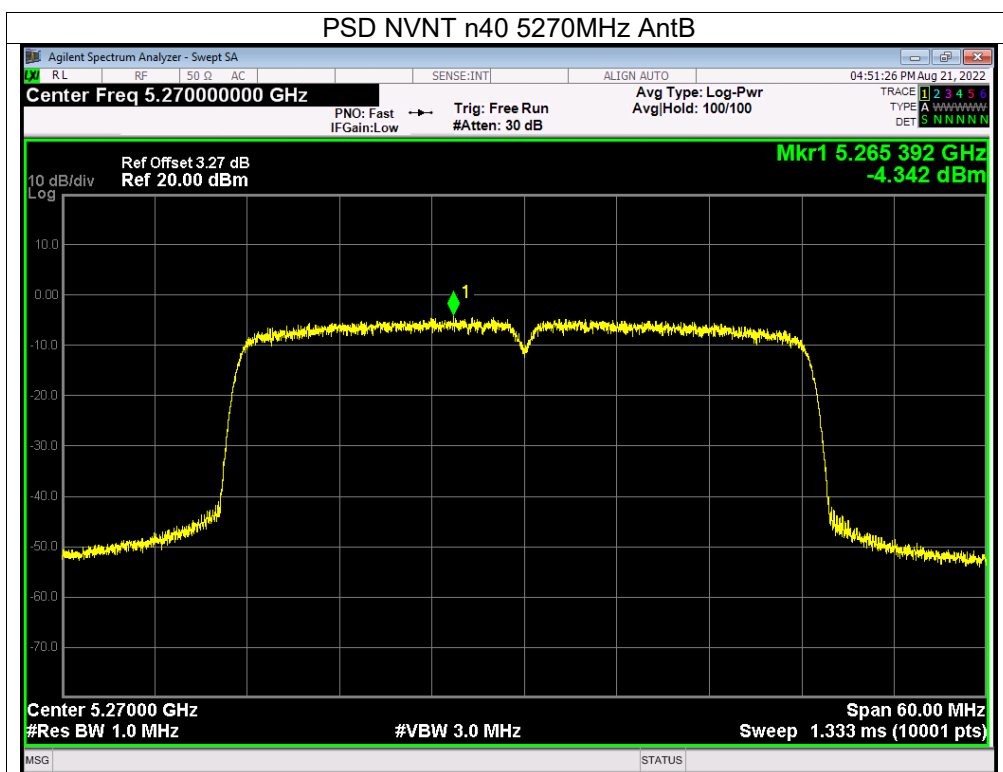
Limit=11-(6.91-6)=10.09 dBi

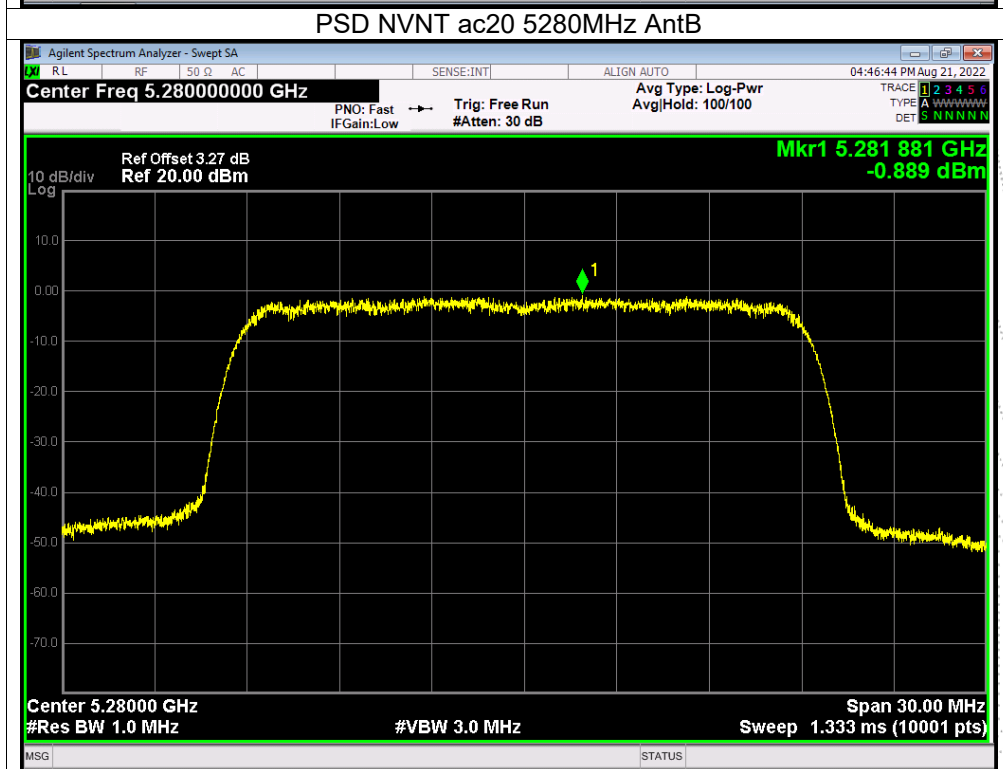
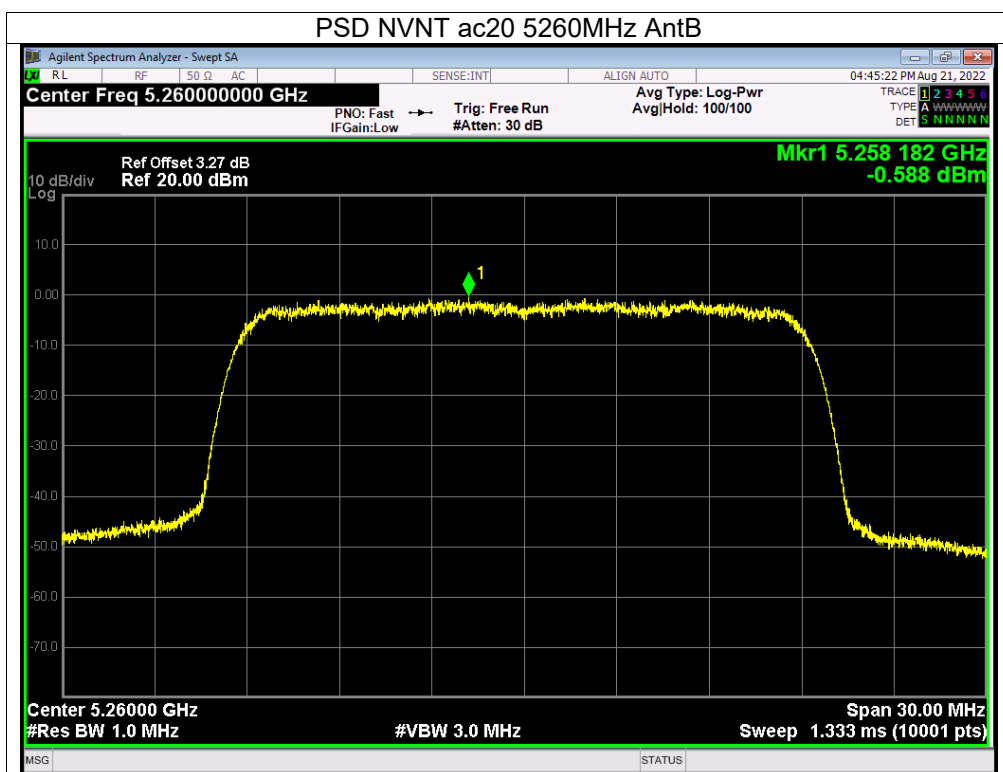
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

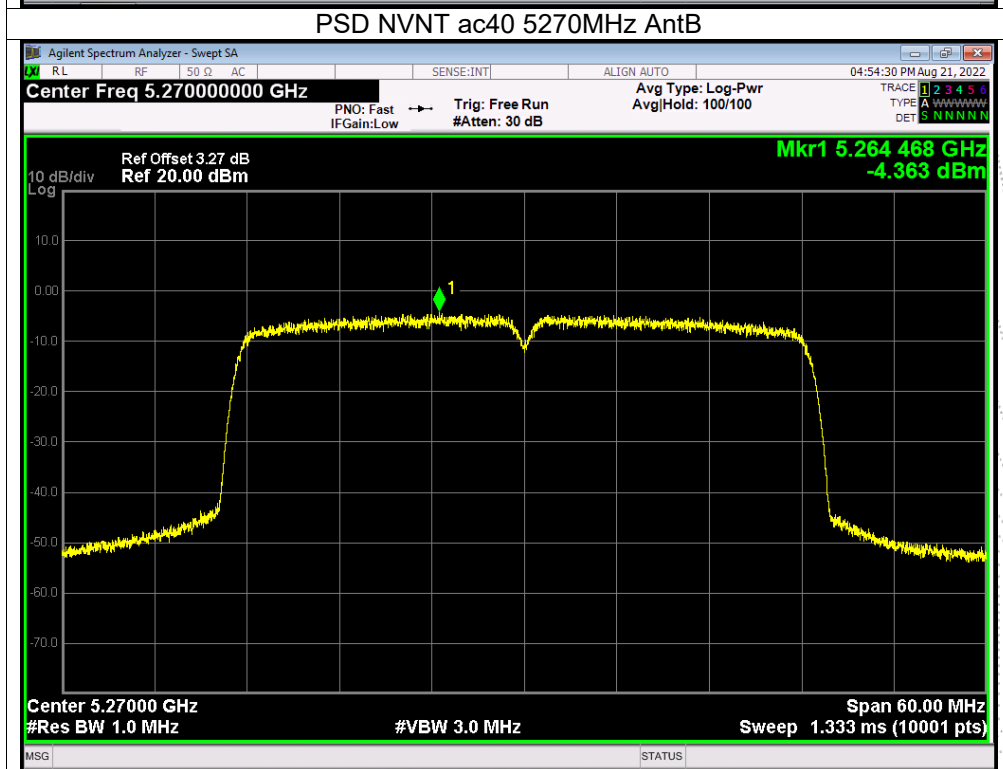
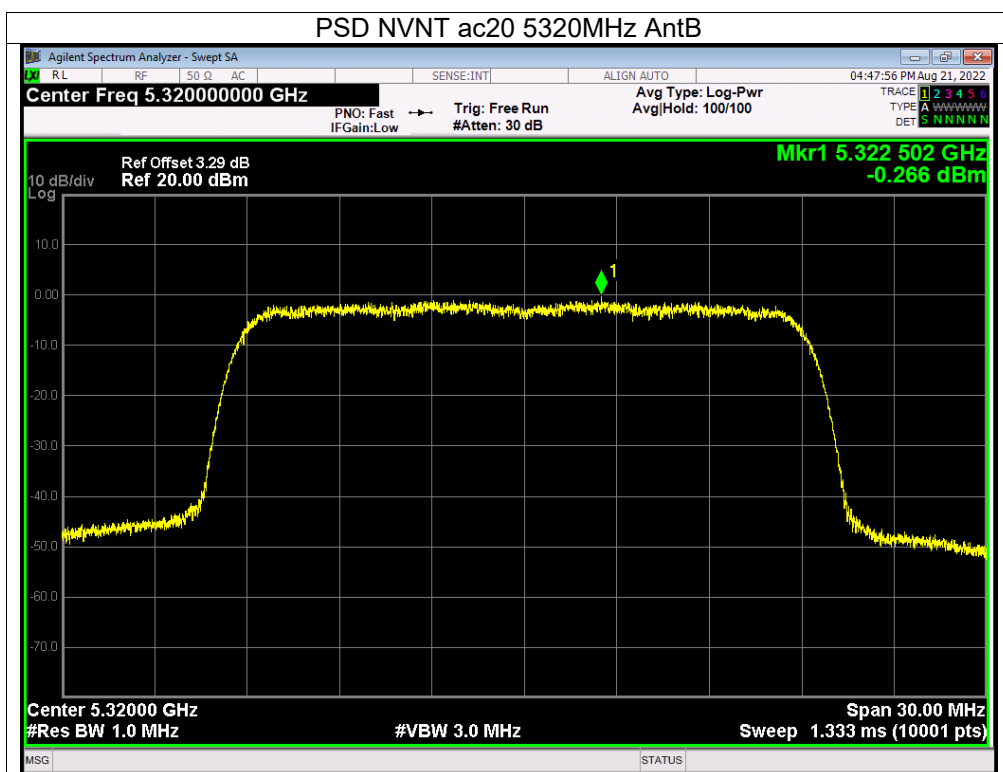


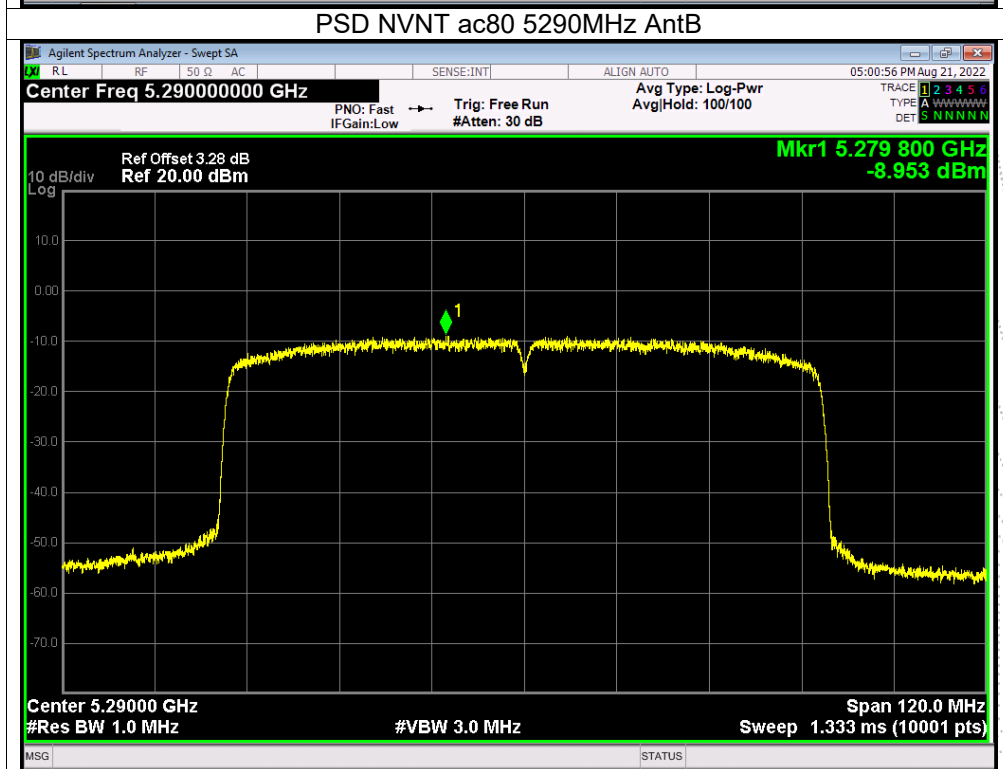
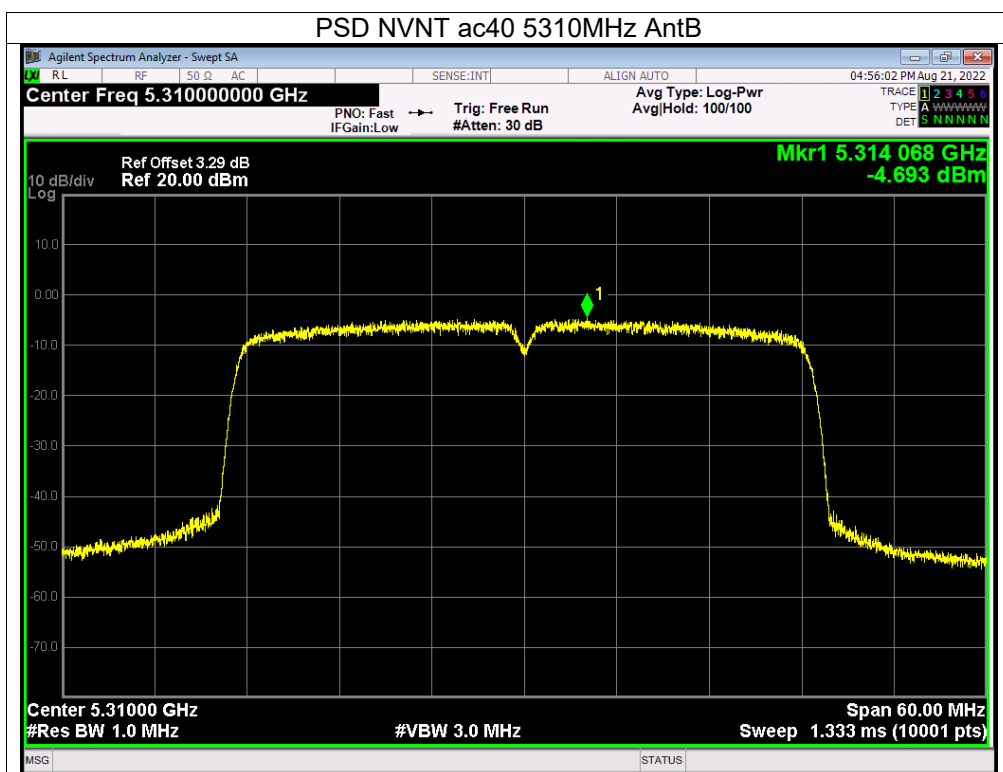












Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5500-5700MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Ant A	Ant B			
NVNT	a	5500	-0.06	0.37	/	11	Pass
NVNT	a	5580	1.12	1.75	/	11	Pass
NVNT	a	5700	0.93	0.34	/	11	Pass
NVNT	n20	5500	-1.55	0.09	2.36	10.09	Pass
NVNT	n20	5580	-0.05	0.73	3.37	10.09	Pass
NVNT	n20	5700	-0.04	-0.48	2.76	10.09	Pass
NVNT	n40	5510	-4.33	-2.82	-0.50	10.09	Pass
NVNT	n40	5590	-3.51	-2.27	0.16	10.09	Pass
NVNT	n40	5670	-2.6	-3.06	0.19	10.09	Pass
NVNT	ac20	5500	-1.69	0	2.25	10.09	Pass
NVNT	ac20	5580	0.14	0.58	3.38	10.09	Pass
NVNT	ac20	5700	-0.28	-0.52	2.61	10.09	Pass
NVNT	ac40	5510	-4.01	-3.04	-0.49	10.09	Pass
NVNT	ac40	5590	-3.55	-2.44	0.05	10.09	Pass
NVNT	ac40	5670	-2.48	-2.83	0.36	10.09	Pass
NVNT	ac80	5530	-7.05	-6.76	-3.89	10.09	Pass

Note:

Antenna A gain:3.90 dBi, Antenna B gain: 3.90 dBi, Directional gain=[GainANT + 10 log(NANT) dBi] =6.91 dBi>6dbi

Limit=11-(6.91-6)=10.09 dbi

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

