

TEST REPORT

Report No.: BCTC2204411747-3E

Applicant: SHENZHEN NST INDUSTRY AND TRADE CO.,LTD

Product Name: 11.6 inch notebook

Model/Type Ref.: M116ZH

Tested Date: 2022-04-16 to 2022-05-09

Issued Date: 2022-05-10

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AAMS-M116ZH

Product Name: 11.6 inch notebook

Trademark: SGIN

Model/Type Ref.: M116ZH
M116ZN

Prepared For: SHENZHEN NST INDUSTRY AND TRADE CO.,LTD

Address: 3/F, Bldg 1, Hongbang Technology Park, No.30 Cuibao Road, Baolong Street,
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Manufacturer: SHENZHEN NST INDUSTRY AND TRADE CO.,LTD

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Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei,
Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Sample Received Date: 2022-04-16

Sample tested Date: 2022-04-16 to 2022-05-09

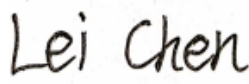
Issue Date: 2022-05-10

Report No.: BCTC2204411747-3E

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

Test Results: PASS

Tested by:



Lei Chen/Project Handler

Approved by:



Zero Zhou/Reviewer

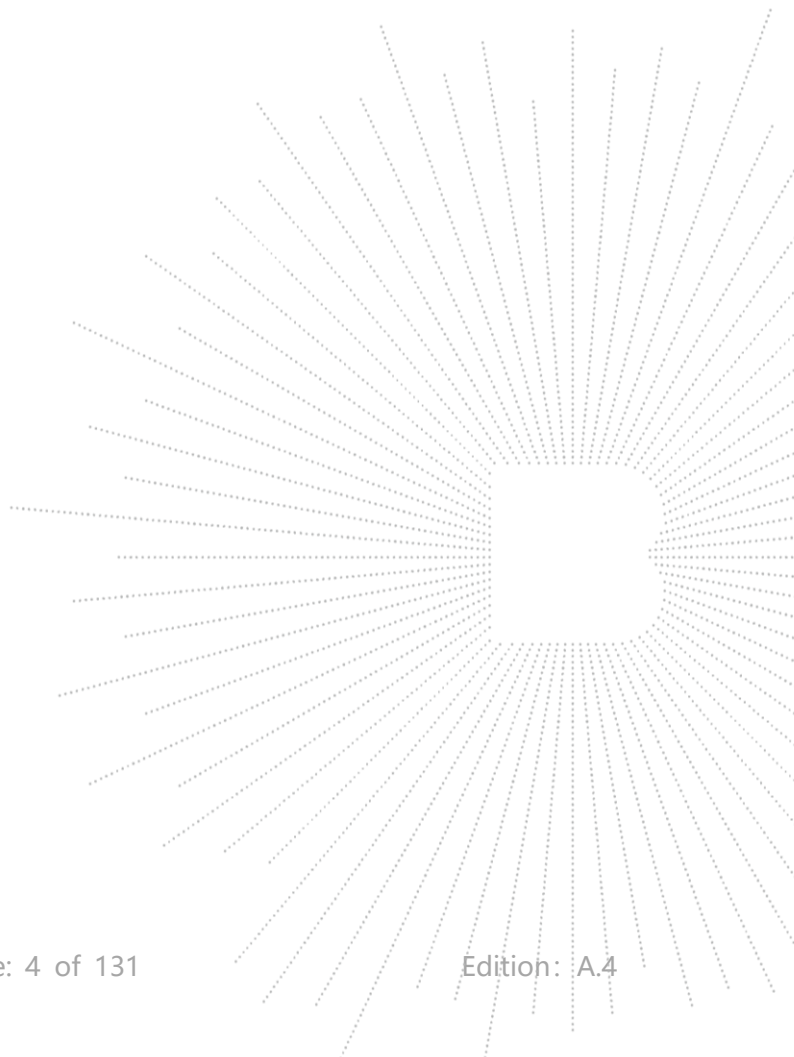
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2204411747-3E	2022-05-10	Original	Valid

2. Test Summary

The Product has been tested according to the following specifications:

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

3. Measurement Uncertainty

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

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

4. Product Information And Test Setup

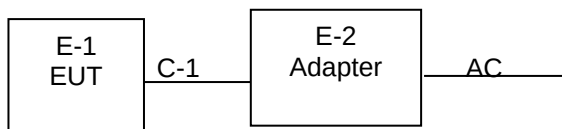
4.1 Product Information

Model/Type Ref.:	M116ZH M116ZN
Model differences:	All the model are the same circuit and RF module, except model names and color.
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN	802.11a/n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth)
Mode Supported	802.11ac(80MHz channel bandwidth) 5180-5240MHz for 802.11a/n(HT20); 5190-5230MHz for 802.11n(HT40); 5210MHz for 802.11 ac80;
Operation Frequency:	5745-5825 MHz for 802.11a/n(HT20); 5755-5795 MHz for 802.11n(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-MCS
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;
Number Of Channel	4 channels for 802.11a/n20 in the 5180-5240MHz band ; 2 channels for 802.11 n40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80 in the 5210MHz band ; 5 channels for 802.11a/n20 in the 5745-5825MHz band ; 2 channels for 802.11 n40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band
Antenna installation:	FPCB antenna*2 WiFi 5.1G:
Antenna Gain:	Antenna A: 2.77dBi Antenna B: 2.48dBi WiFi 5.8G:
Ratings:	Antenna A: 2dBi Antenna B: 2.52dBi DC 12V from adapter DC 7.6V from battery
Adapter Information:	Model No.:MKE-1202000H Input: AC100-240V 50/60Hz 0.8A Output: DC12V/2A 24W

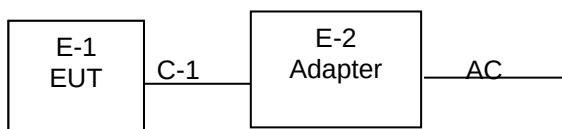
4.2 Test Setup Configuration

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	11.6 inch notebook	SGIN	M116ZH	N/A	EUT
E-2	Adapter	N/A	MKE-1202000H	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.5M	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

Frequency and Channel list for 802.11a/n/ac(20 MHz) band IV (5180-5240MHz):

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

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

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

Frequency and Channel list for 802.11a/n/ac(20 MHz) band IV (5745-5825MHz):

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

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

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

4.5 Test Mode

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

Pretest Mode	Description
Mode 1	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/CH 155
Mode 4	Link Mode

Conducted Emission	
Final Test Mode	Description
Mode 4	Link Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/CH 155

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	DRTU		
Parameters	DEF	DEF	DEF

4.7 Antenna

5.1G

Antenna	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
A	N/A	N/A	FPCB antenna	2.77	
B	N/A	N/A	FPCB antenna	2.48	

EUT has two FPCB antennas with Max antenna A gain 2.77dBi and antenna B gain 2.48dBi on every antenna, CDD device with two spatial streams, also can operate with one spatial stream according to KDB662911 D01 v02r01,

Directional gain = GANT + Array Gain, where Array Gain is as follows.

1) For power spectral density (PSD) measurements,
Array Gain = $10\log(N_{\text{ANT}}/N_{\text{SS}})$ dB = $10\log(2/1)$ = 3.01 dB,
So the directional gain for PSD is 5.78 dBi

2) For power measurements,
The Array gain = 0 dB for $N_{\text{ANT}} \leq 4$,
So the directional gain for Power measurements is 2.77 dBi

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

5.8G

Antenna	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
A	N/A	N/A	FPCB antenna	2	
B	N/A	N/A	FPCB antenna	2.52	

EUT has two FPCB antennas with Max antenna A gain 2dBi and antenna B gain 2.52dBi on every antenna, CDD device with two spatial streams, also can operate with one spatial stream according to KDB662911 D01 v02r01,

Directional gain = GANT + Array Gain, where Array Gain is as follows.

1) For power spectral density (PSD) measurements,
Array Gain = $10\log(N_{\text{ANT}}/N_{\text{SS}})$ dB = $10\log(2/1)$ = 3.01 dB,
So the directional gain for PSD is 5.53 dBi

2) For power measurements,
The Array gain = 0 dB for $N_{\text{ANT}} \leq 4$,
So the directional gain for Power measurements is 2.52 dBi

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

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, 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

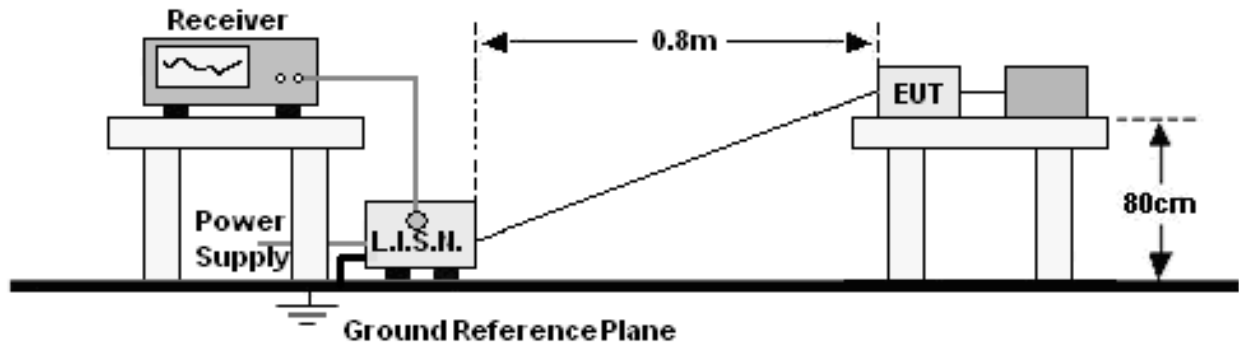
Conducted emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
LISN	R&S	ENV216	101375	May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB DC-6GHz	1650	May 28, 2021	May 27, 2022

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	\	May 28, 2021	May 27, 2022
Power Sensor (AV)	Keysight	E9300A	\	May 28, 2021	May 27, 2022
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 28, 2021	May 27, 2022
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	\	May 28, 2021	May 27, 2022

Radiated emissions Test (966 chamber)					
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 28, 2021	May 27, 2022
Receiver	R&S	ESRP	101154	May 28, 2021	May 27, 2022
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 28, 2021	May 27, 2022
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 28, 2021	May 27, 2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	Jun. 01, 2021	May 31, 2022
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 02, 2021	Jun. 01, 2022
Horn Antenn(18GHz -40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 15, 2021	Jun. 14, 2022
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 28, 2021	May 27, 2022
Loop Antenna(9kHz -30MHz)	Schwarzbeck	FMZB1519B	00014	Jun. 02, 2021	Jun. 01, 2022
RF cables1(9kHz- 30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-00 08	May 28, 2021	May 27, 2022
RF cables2(30MH z-1GHz)	Huber+Suhnar	30MHz-1GH z	1486150	May 28, 2021	May 27, 2022
RF cables3(1GHz- 40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	May 28, 2021	May 27, 2022
Power Metter	Keysight	E4419	\	May 28, 2021	May 27, 2022
Power Sensor (AV)	Keysight	E9300A	\	May 28, 2021	May 27, 2022
Signal Analyzer20kHz -26.5GHz	Keysight	N9020A	MY49100060	May 28, 2021	May 27, 2022
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	\	May 28, 2021	May 27, 2022
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.

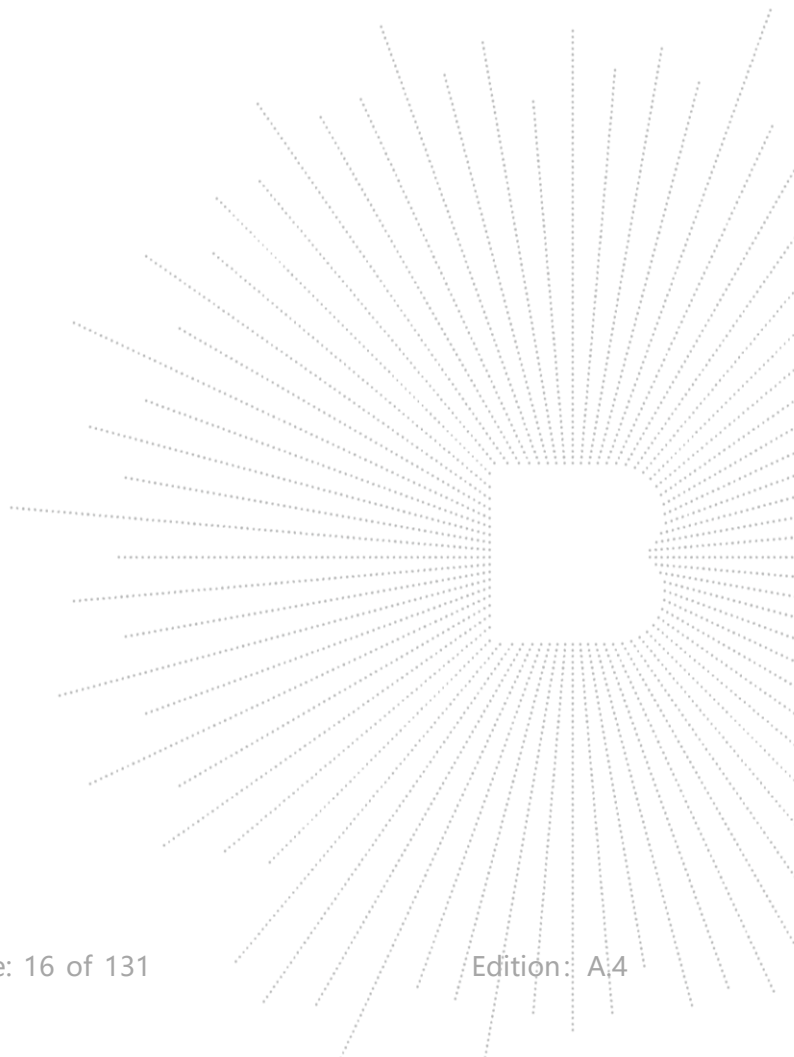
6.3 Test Procedure

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.

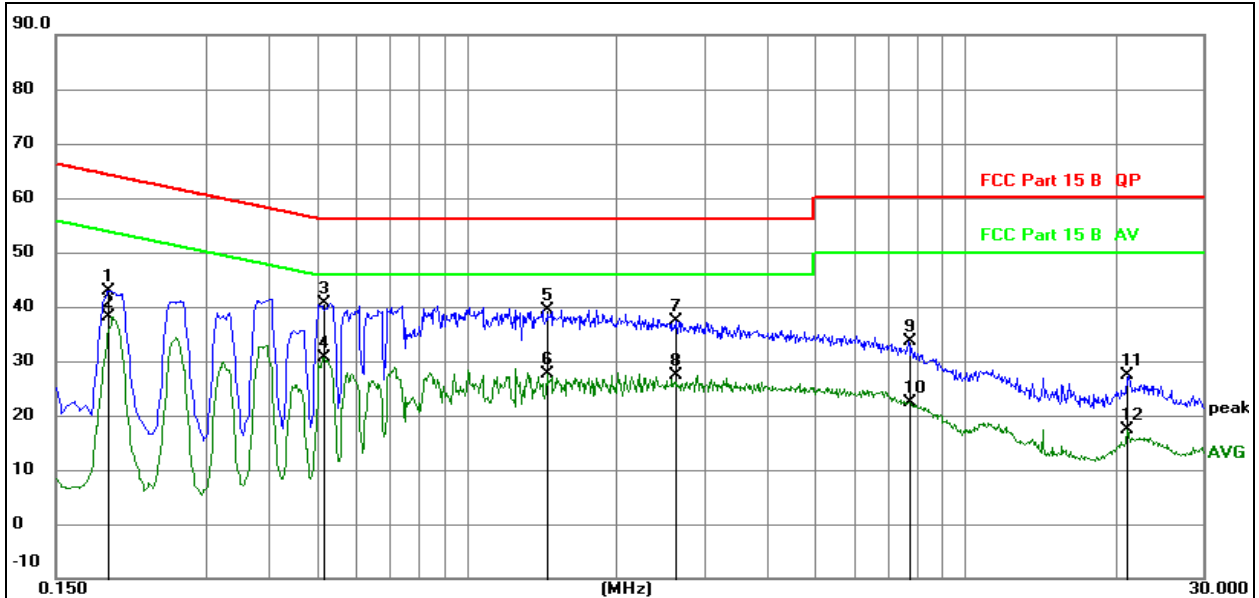
6.4 EUT Operating Conditions

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	Phase :	Line
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 4

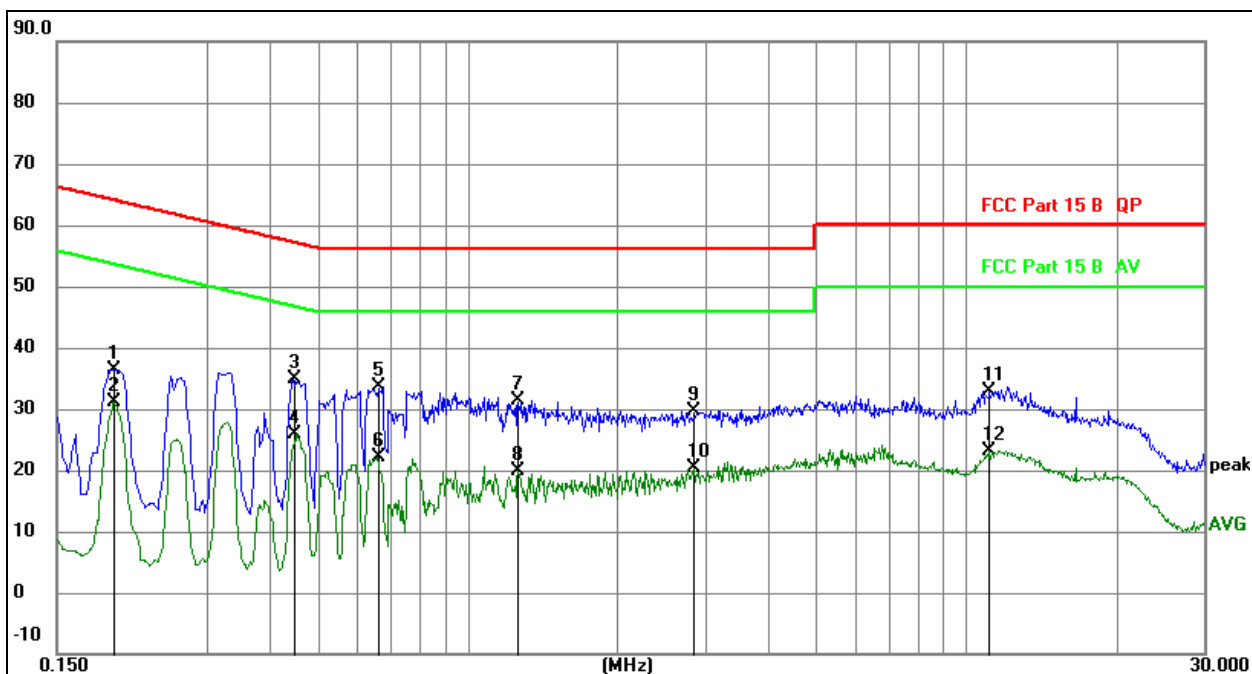


Remark:

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	0.1904	23.35	19.60	42.95	64.02	-21.07	QP
2	0.1904	18.53	19.60	38.13	54.02	-15.89	AVG
3 *	0.5181	20.98	19.61	40.59	56.00	-15.41	QP
4	0.5181	10.96	19.61	30.57	46.00	-15.43	AVG
5	1.4485	19.87	19.62	39.49	56.00	-16.51	QP
6	1.4485	8.01	19.62	27.63	46.00	-18.37	AVG
7	2.6221	17.71	19.64	37.35	56.00	-18.65	QP
8	2.6221	7.69	19.64	27.33	46.00	-18.67	AVG
9	7.6870	13.79	19.74	33.53	60.00	-26.47	QP
10	7.6870	2.73	19.74	22.47	50.00	-27.53	AVG
11	21.1471	7.71	19.74	27.45	60.00	-32.55	QP
12	21.1471	-2.33	19.74	17.41	50.00	-32.59	AVG

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



Remark:

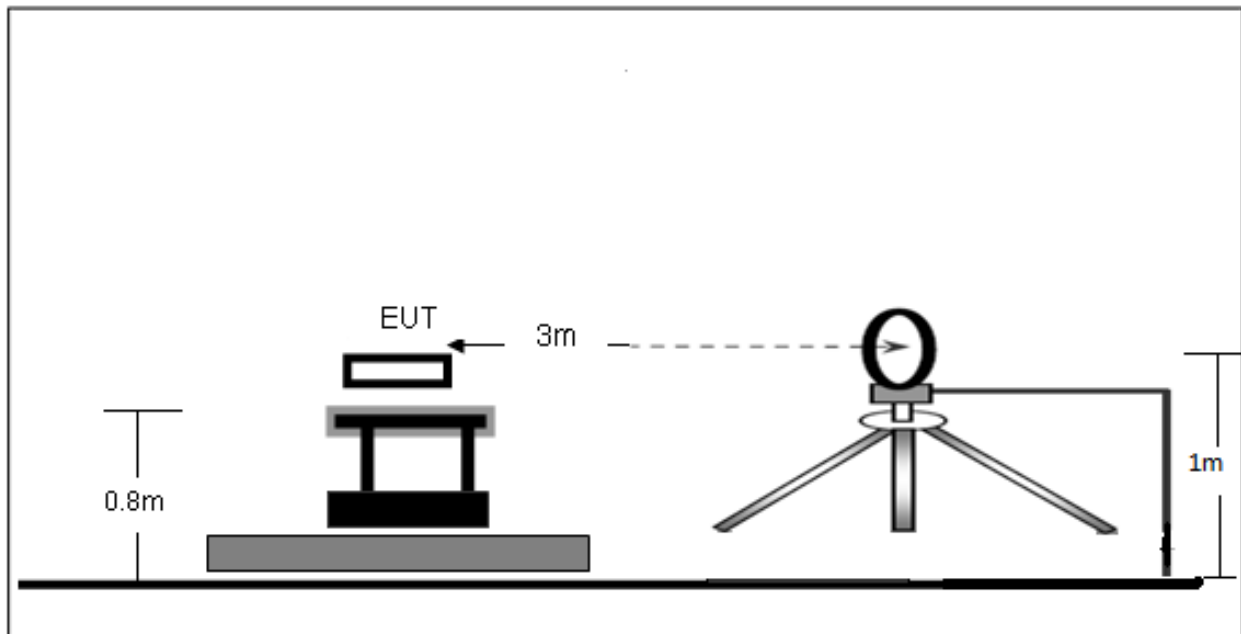
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over= Measurement-Limit

No. Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	0.1945	16.87	19.60	36.47	63.84	-27.37	QP
2	0.1945	11.61	19.60	31.21	53.84	-22.63	AVG
3	0.4468	15.33	19.61	34.94	56.93	-21.99	QP
4 *	0.4468	6.19	19.61	25.80	46.93	-21.13	AVG
5	0.6578	14.05	19.61	33.66	56.00	-22.34	QP
6	0.6578	2.43	19.61	22.04	46.00	-23.96	AVG
7	1.2621	11.80	19.62	31.42	56.00	-24.58	QP
8	1.2621	0.16	19.62	19.78	46.00	-26.22	AVG
9	2.8389	10.01	19.64	29.65	56.00	-26.35	QP
10	2.8389	0.66	19.64	20.30	46.00	-25.70	AVG
11	11.1385	13.15	19.79	32.94	60.00	-27.06	QP
12	11.1385	3.27	19.79	23.06	50.00	-26.94	AVG

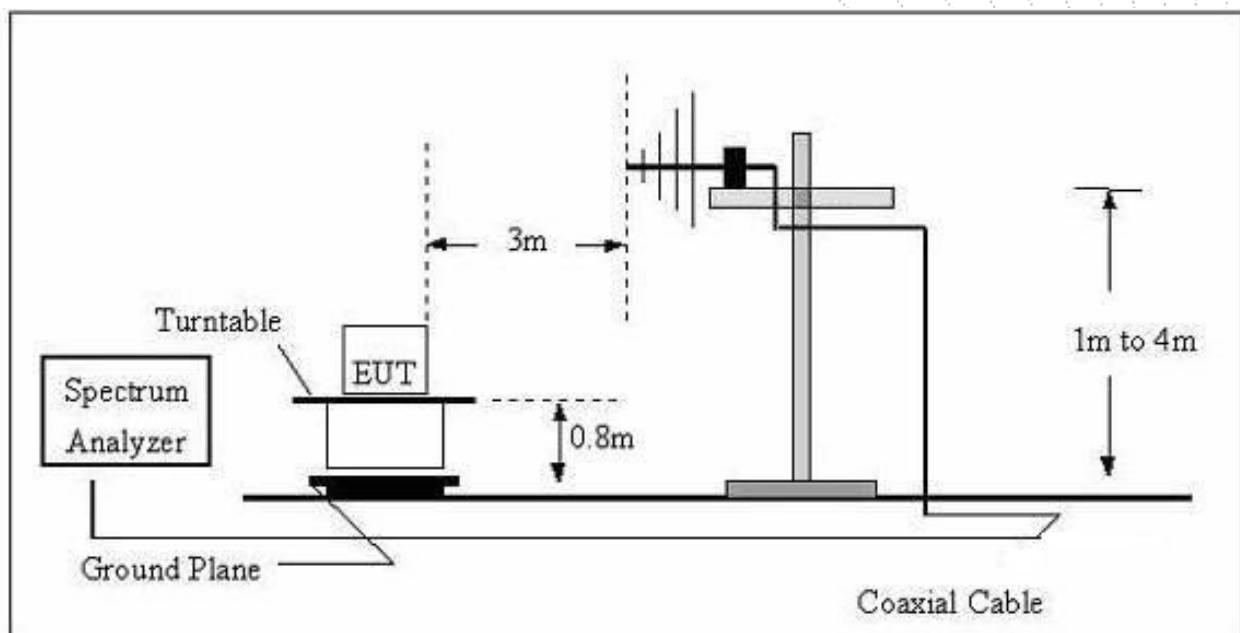
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

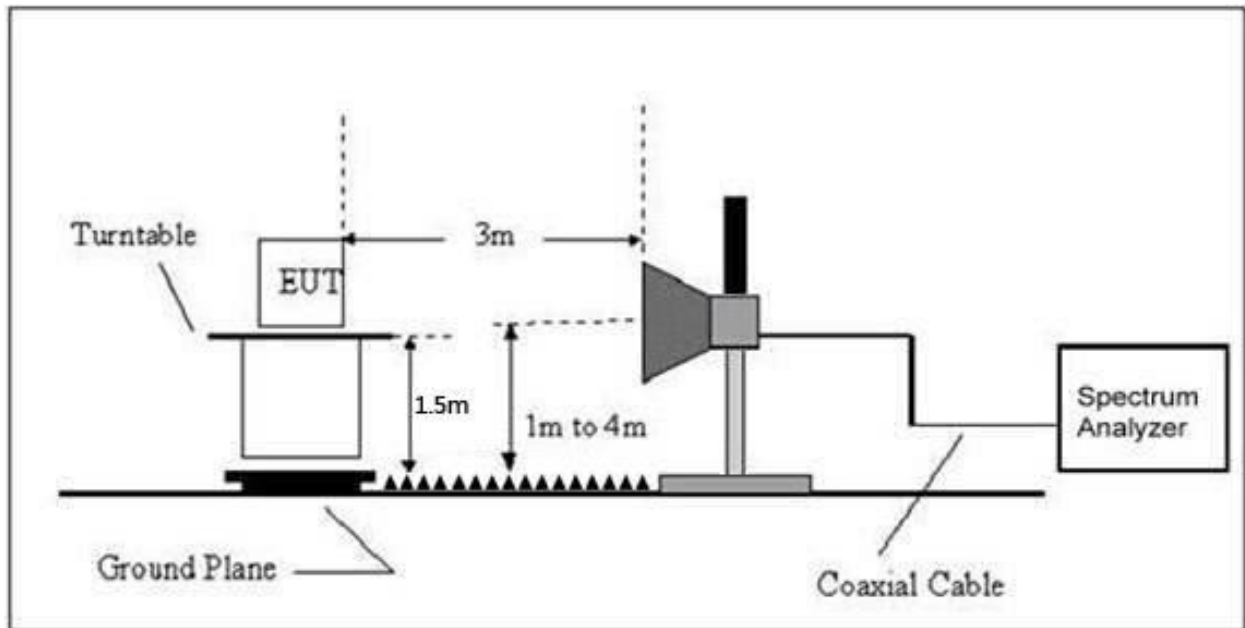
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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

- a. 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.
- b. 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.
- c. 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.
- d. 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.
- e. 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.
- f. 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 :	AC 120V/60Hz
Test Mode :	Mode 4	Polarization :	--

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

Note:

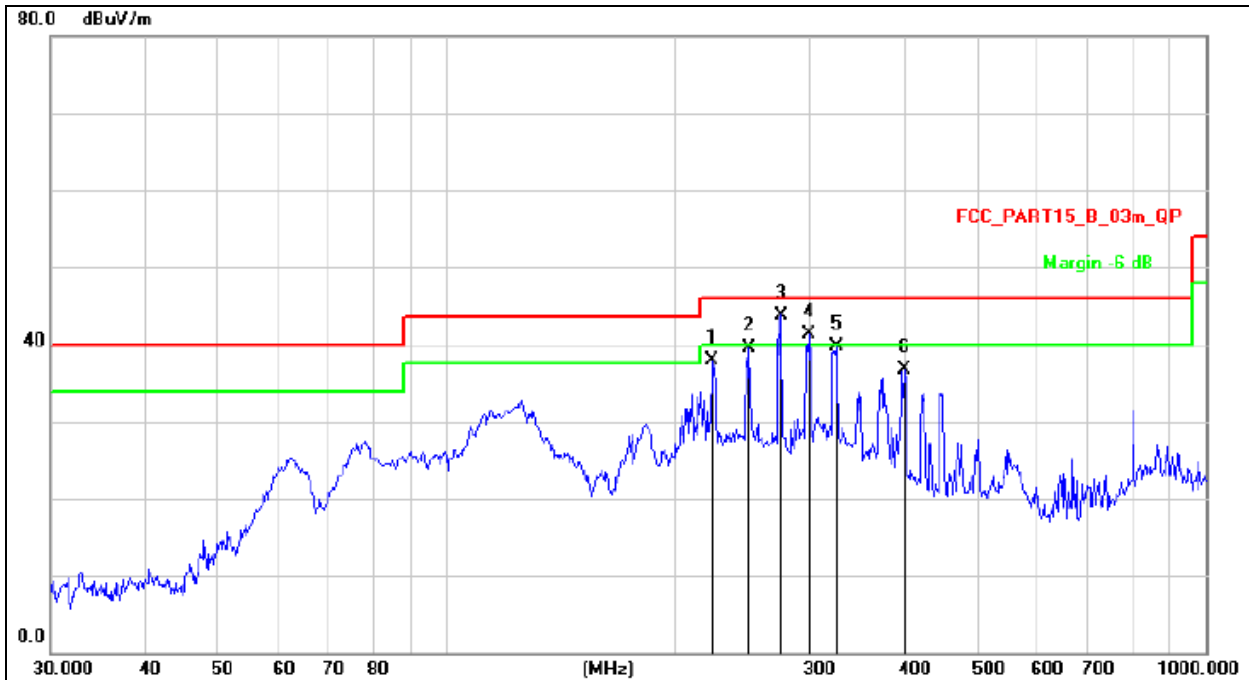
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

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

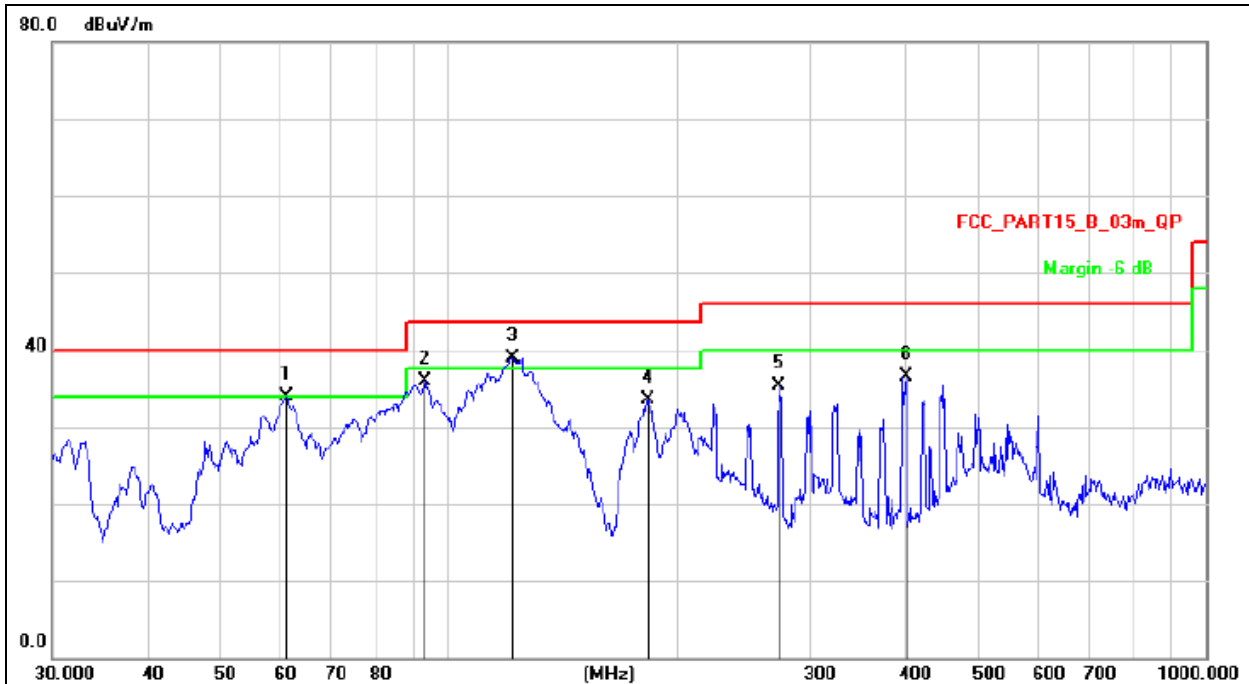


Remark:

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		223.7334	53.57	-15.75	37.82	46.00	-8.18	QP
2		250.3012	54.60	-15.14	39.46	46.00	-6.54	QP
3	*	275.1570	58.17	-14.37	43.80	46.00	-2.20	QP
4	!	300.3672	54.85	-13.59	41.26	46.00	-4.74	QP
5		325.5958	52.51	-12.90	39.61	46.00	-6.39	QP
6		400.4319	47.72	-11.08	36.64	46.00	-9.36	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 4	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		61.1316	50.02	-16.17	33.85	40.00	-6.15	QP
2		93.1132	53.48	-17.53	35.95	43.50	-7.55	QP
3	*	121.5486	56.63	-17.67	38.96	43.50	-4.54	QP
4		183.2005	50.81	-17.38	33.43	43.50	-10.07	QP
5		273.2341	49.69	-14.43	35.26	46.00	-10.74	QP
6		401.8385	47.57	-11.05	36.52	46.00	-9.48	QP

Between 1GHz – 40GHz

Test Mode :	TX(5.2G) - 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	4434.003	62.33	5.94	35.40	44.00	59.67	68.2	-8.53	PK
V	4434.003	43.61	5.94	35.40	44.00	40.95	54	-13.05	AV
V	10360.099	63.27	8.46	39.75	44.50	66.98	68.2	-1.22	PK
V	10360.099	44.00	8.46	39.75	44.50	47.71	54	-6.29	AV
V	15540.193	61.63	10.12	38.80	44.10	66.45	74	-7.55	PK
V	15540.193	43.08	10.12	38.80	42.70	49.30	54	-4.70	AV
H	4434.177	62.64	5.94	35.18	44.00	59.76	68.2	-8.44	PK
H	4434.177	43.35	5.94	35.18	44.00	40.47	54	-13.53	AV
H	10360.191	50.40	8.46	38.71	44.50	53.07	68.2	-15.13	PK
H	10360.191	44.49	8.46	38.71	44.50	47.16	54	-6.84	AV
H	15540.093	51.93	10.12	38.38	44.10	56.33	74	-17.67	PK
H	15540.093	42.07	10.12	38.38	44.10	46.47	54	-7.53	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.163	61.94	6.48	36.35	44.05	60.72	74	-13.28	PK
V	4592.163	43.15	6.48	36.35	44.05	41.93	54	-12.07	AV
V	10400.102	63.66	8.47	37.88	44.51	65.50	68.2	-2.70	PK
V	10400.102	43.65	8.47	37.88	44.51	45.49	54	-8.51	AV
V	15600.119	63.05	10.12	38.80	44.10	67.87	74	-6.13	PK
V	15600.119	43.12	10.12	38.80	42.70	49.34	54	-4.66	AV
H	4592.170	64.80	6.48	36.37	44.05	63.60	74	-10.40	PK
H	4592.170	43.94	6.48	36.37	44.05	42.74	54	-11.26	AV
H	10400.186	50.82	8.47	38.64	44.50	53.43	68.2	-14.77	PK
H	10400.186	44.67	8.47	38.64	44.50	47.28	54	-6.72	AV
H	15600.049	54.64	10.12	38.38	44.10	59.04	74	-14.96	PK
H	15600.049	40.91	10.12	38.38	44.10	45.31	54	-8.69	AV
High Channel (5240 MHz)-Above 1G									
V	4739.095	63.69	7.10	37.24	43.50	64.53	74	-9.47	PK
V	4739.095	43.27	7.10	37.24	43.50	44.11	54	-9.89	AV
V	10480.161	62.62	8.46	37.68	44.50	64.26	68.2	-3.94	PK
V	10480.161	43.78	8.46	37.68	44.50	45.42	54	-8.58	AV
V	15720.104	62.10	10.12	38.80	44.10	66.92	74	-7.08	PK
V	15720.104	43.37	10.12	38.80	42.70	49.59	54	-4.41	AV
H	4739.040	64.29	7.10	37.24	43.50	65.13	74	-8.87	PK
H	4739.040	43.18	7.10	37.24	43.50	44.02	54	-9.98	AV
H	10480.080	50.79	8.46	38.57	44.50	53.32	68.2	-14.88	PK
H	10480.080	41.67	8.46	38.57	44.50	44.20	54	-9.80	AV
H	15720.150	54.33	10.12	38.38	44.10	58.73	74	-15.27	PK
H	15720.150	42.26	10.12	38.38	44.10	46.66	54	-7.34	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(5.2G) - 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	4434.116	64.71	5.94	35.40	44.00	62.05	68.2	-6.15	PK
V	4434.116	43.16	5.94	35.40	44.00	40.50	54	-13.50	AV
V	10360.020	63.78	8.46	39.75	44.50	67.49	68.2	-0.71	PK
V	10360.020	43.81	8.46	39.75	44.50	47.52	54	-6.48	AV
V	15540.022	60.74	10.12	38.80	44.10	65.56	74	-8.44	PK
V	15540.022	43.91	10.12	38.80	42.70	50.13	54	-3.87	AV
H	4434.118	62.56	5.94	35.18	44.00	59.68	68.2	-8.52	PK
H	4434.118	43.11	5.94	35.18	44.00	40.23	54	-13.77	AV
H	10360.073	54.27	8.46	38.71	44.50	56.94	68.2	-11.26	PK
H	10360.073	43.77	8.46	38.71	44.50	46.44	54	-7.56	AV
H	15540.032	51.09	10.12	38.38	44.10	55.49	74	-18.51	PK
H	15540.032	43.98	10.12	38.38	44.10	48.38	54	-5.62	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.124	61.21	6.48	36.35	44.05	59.99	74	-14.01	PK
V	4592.124	43.02	6.48	36.35	44.05	41.80	54	-12.20	AV
V	10400.173	61.92	8.47	37.88	44.51	63.76	68.2	-4.44	PK
V	10400.173	43.82	8.47	37.88	44.51	45.66	54	-8.34	AV
V	15600.003	61.24	10.12	38.80	44.10	66.06	74	-7.94	PK
V	15600.003	43.08	10.12	38.80	42.70	49.30	54	-4.70	AV
H	4592.195	64.13	6.48	36.37	44.05	62.93	74	-11.07	PK
H	4592.195	43.89	6.48	36.37	44.05	42.69	54	-11.31	AV
H	10400.048	52.97	8.47	38.64	44.50	55.58	68.2	-12.62	PK
H	10400.048	42.80	8.47	38.64	44.50	45.41	54	-8.59	AV
H	15600.132	52.25	10.12	38.38	44.10	56.65	74	-17.35	PK
H	15600.132	42.26	10.12	38.38	44.10	46.66	54	-7.34	AV
High Channel (5240 MHz)-Above 1G									
V	4739.160	61.39	7.10	37.24	43.50	62.23	74	-11.77	PK
V	4739.160	43.04	7.10	37.24	43.50	43.88	54	-10.12	AV
V	10480.099	62.21	8.46	37.68	44.50	63.85	68.2	-4.35	PK
V	10480.099	43.72	8.46	37.68	44.50	45.36	54	-8.64	AV
V	15720.090	63.99	10.12	38.80	44.10	68.81	74	-5.19	PK
V	15720.090	43.50	10.12	38.80	42.70	49.72	54	-4.28	AV
H	4739.185	61.39	7.10	37.24	43.50	62.23	74	-11.77	PK
H	4739.185	43.27	7.10	37.24	43.50	44.11	54	-9.89	AV
H	10480.174	50.16	8.46	38.57	44.50	52.69	68.2	-15.51	PK
H	10480.174	40.20	8.46	38.57	44.50	42.73	54	-11.27	AV
H	15720.180	52.10	10.12	38.38	44.10	56.50	74	-17.50	PK
H	15720.180	40.65	10.12	38.38	44.10	45.05	54	-8.95	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(5.2G) - 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	4434.189	61.15	5.94	35.40	44.00	58.49	68.2	-9.71	PK
V	4434.189	43.34	5.94	35.40	44.00	40.68	54	-13.32	AV
V	10380.087	61.05	8.46	39.75	44.50	64.76	68.2	-3.44	PK
V	10380.087	43.13	8.46	39.75	44.50	46.84	54	-7.16	AV
V	15570.086	64.56	10.12	38.80	44.10	69.38	74	-4.62	PK
V	15570.086	43.34	10.12	38.80	42.70	49.56	54	-4.44	AV
H	4434.141	64.41	5.94	35.18	44.00	61.53	74	-12.47	PK
H	4434.141	43.98	5.94	35.18	44.00	41.10	54	-12.90	AV
H	10380.175	52.34	8.46	38.71	44.50	55.01	68.2	-13.19	PK
H	10380.175	41.17	8.46	38.71	44.50	43.84	54	-10.16	AV
H	15570.109	53.39	10.12	38.38	44.10	57.79	74	-16.21	PK
H	15570.109	42.93	10.12	38.38	44.10	47.33	54	-6.67	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.196	63.95	6.48	36.35	44.05	62.73	68.2	-5.47	PK
V	4739.196	43.46	6.48	36.35	44.05	42.24	54	-11.76	AV
V	10460.067	60.19	8.47	37.88	44.51	62.03	68.2	-6.17	PK
V	10460.067	43.73	8.47	37.88	44.51	45.57	54	-8.43	AV
V	15690.121	61.47	10.12	38.80	44.10	66.29	74	-7.71	PK
V	15690.121	43.56	10.12	38.80	42.70	49.78	54	-4.22	AV
H	4739.060	61.17	6.48	36.37	44.05	59.97	68.2	-8.23	PK
H	4739.060	43.42	6.48	36.37	44.05	42.22	54	-11.78	AV
H	10460.147	54.61	8.47	38.64	44.50	57.22	68.2	-10.98	PK
H	10460.147	44.14	8.47	38.64	44.50	46.75	54	-7.25	AV
H	15690.175	54.88	10.12	38.38	44.10	59.28	74	-14.72	PK
H	15690.175	40.91	10.12	38.38	44.10	45.31	54	-8.69	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(5.2G) - 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	4434.086	60.88	5.94	35.40	44.00	58.22	68.2	-9.98	PK
V	4434.086	43.80	5.94	35.40	44.00	41.14	54	-12.86	AV
V	10360.162	63.57	8.46	39.75	44.50	67.28	68.2	-0.92	PK
V	10360.162	43.08	8.46	39.75	44.50	46.79	54	-7.21	AV
V	15540.193	61.65	10.12	38.80	44.10	66.47	74	-7.53	PK
V	15540.193	43.15	10.12	38.80	42.70	49.37	54	-4.63	AV
H	4434.019	62.72	5.94	35.18	44.00	59.84	68.2	-8.36	PK
H	4434.019	43.05	5.94	35.18	44.00	40.17	54	-13.83	AV
H	10360.021	51.15	8.46	38.71	44.50	53.82	68.2	-14.38	PK
H	10360.021	42.73	8.46	38.71	44.50	45.40	54	-8.60	AV
H	15540.178	51.75	10.12	38.38	44.10	56.15	74	-17.85	PK
H	15540.178	44.69	10.12	38.38	44.10	49.09	54	-4.91	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.093	63.55	6.48	36.35	44.05	62.33	74	-11.67	PK
V	4592.093	43.30	6.48	36.35	44.05	42.08	54	-11.92	AV
V	10400.158	62.23	8.47	37.88	44.51	64.07	68.2	-4.13	PK
V	10400.158	43.53	8.47	37.88	44.51	45.37	54	-8.63	AV
V	15600.078	60.47	10.12	38.80	44.10	65.29	74	-8.71	PK
V	15600.078	43.58	10.12	38.80	42.70	49.80	54	-4.20	AV
H	4592.199	63.65	6.48	36.37	44.05	62.45	74	-11.55	PK
H	4592.199	43.64	6.48	36.37	44.05	42.44	54	-11.56	AV
H	10400.156	51.01	8.47	38.64	44.50	53.62	68.2	-14.58	PK
H	10400.156	40.75	8.47	38.64	44.50	43.36	54	-10.64	AV
H	15600.024	52.53	10.12	38.38	44.10	56.93	74	-17.07	PK
H	15600.024	42.91	10.12	38.38	44.10	47.31	54	-6.69	AV
High Channel (5240 MHz)-Above 1G									
V	4739.133	62.11	7.10	37.24	43.50	62.95	74	-11.05	PK
V	4739.133	43.44	7.10	37.24	43.50	44.28	54	-9.72	AV
V	10480.099	60.24	8.46	37.68	44.50	61.88	68.2	-6.32	PK
V	10480.099	43.80	8.46	37.68	44.50	45.44	54	-8.56	AV
V	15720.010	64.66	10.12	38.80	44.10	69.48	74	-4.52	PK
V	15720.010	43.69	10.12	38.80	42.70	49.91	54	-4.09	AV
H	4739.033	63.68	7.10	37.24	43.50	64.52	74	-9.48	PK
H	4739.033	43.31	7.10	37.24	43.50	44.15	54	-9.85	AV
H	10480.107	51.63	8.46	38.57	44.50	54.16	68.2	-14.04	PK
H	10480.107	42.60	8.46	38.57	44.50	45.13	54	-8.87	AV
H	15720.001	50.06	10.12	38.38	44.10	54.46	74	-19.54	PK
H	15720.001	44.85	10.12	38.38	44.10	49.25	54	-4.75	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(5.2G) - 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	4434.035	62.43	5.94	35.40	44.00	59.77	68.2	-8.43	PK
V	4434.035	43.61	5.94	35.40	44.00	40.95	54	-13.05	AV
V	10380.158	60.74	8.46	39.75	44.50	64.45	68.2	-3.75	PK
V	10380.158	43.56	8.46	39.75	44.50	47.27	54	-6.73	AV
V	15570.132	61.17	10.12	38.80	44.10	65.99	74	-8.01	PK
V	15570.132	43.38	10.12	38.80	42.70	49.60	54	-4.40	AV
H	4434.134	64.62	5.94	35.18	44.00	61.74	74	-12.26	PK
H	4434.134	43.52	5.94	35.18	44.00	40.64	54	-13.36	AV
H	10380.019	50.77	8.46	38.71	44.50	53.44	68.2	-14.76	PK
H	10380.019	40.27	8.46	38.71	44.50	42.94	54	-11.06	AV
H	15570.183	51.79	10.12	38.38	44.10	56.19	74	-17.81	PK
H	15570.183	40.72	10.12	38.38	44.10	45.12	54	-8.88	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.126	60.74	6.48	36.35	44.05	59.52	68.2	-8.68	PK
V	4739.126	43.59	6.48	36.35	44.05	42.37	54	-11.63	AV
V	10460.088	62.72	8.47	37.88	44.51	64.56	68.2	-3.64	PK
V	10460.088	43.22	8.47	37.88	44.51	45.06	54	-8.94	AV
V	15690.147	60.27	10.12	38.80	44.10	65.09	74	-8.91	PK
V	15690.147	43.78	10.12	38.80	42.70	50.00	54	-4.00	AV
H	4739.053	61.84	6.48	36.37	44.05	60.64	68.2	-7.56	PK
H	4739.053	43.50	6.48	36.37	44.05	42.30	54	-11.70	AV
H	10460.080	51.25	8.47	38.64	44.50	53.86	68.2	-14.34	PK
H	10460.080	43.49	8.47	38.64	44.50	46.10	54	-7.90	AV
H	15690.171	51.01	10.12	38.38	44.10	55.41	74	-18.59	PK
H	15690.171	41.39	10.12	38.38	44.10	45.79	54	-8.21	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(5.2G) - 802.11ac 80
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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 (5210 MHz)-Above 1G									
V	4434.131	63.37	5.94	35.40	44.00	60.71	68.2	-7.49	PK
V	4434.131	43.04	5.94	35.40	44.00	40.38	54	-13.62	AV
V	10420.027	61.69	8.46	39.75	44.50	65.40	68.2	-2.80	PK
V	10420.027	43.17	8.46	39.75	44.50	46.88	54	-7.12	AV
V	15630.042	61.53	10.12	38.80	44.10	66.35	74	-7.65	PK
V	15630.042	43.63	10.12	38.80	42.70	49.85	54	-4.15	AV
H	4434.162	64.28	5.94	35.18	44.00	61.40	68.2	-6.80	PK
H	4434.162	43.35	5.94	35.18	44.00	40.47	54	-13.53	AV
H	10420.125	54.26	8.46	38.71	44.50	56.93	68.2	-11.27	PK
H	10420.125	44.11	8.46	38.71	44.50	46.78	54	-7.22	AV
H	15630.062	50.92	10.12	38.38	44.10	55.32	74	-18.68	PK
H	15630.062	42.14	10.12	38.38	44.10	46.54	54	-7.46	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	4679.091	59.22	5.94	35.40	44.00	56.56	74	-17.44	PK
V	4679.091	43.61	5.94	35.40	44.00	40.95	54	-13.05	AV
V	11490.027	57.92	8.46	39.75	44.50	61.63	68.2	-6.57	PK
V	11490.027	43.87	8.46	39.75	44.50	47.58	54	-6.42	AV
V	17235.054	59.16	10.12	38.80	44.10	63.98	68.2	-4.22	PK
V	17235.054	43.10	10.12	38.80	42.70	49.32	54	-4.68	AV
H	4679.106	54.15	5.94	35.18	44.00	51.27	74	-22.73	PK
H	4679.106	43.35	5.94	35.18	44.00	40.47	54	-13.53	AV
H	11490.103	53.01	8.46	38.71	44.50	55.68	68.2	-12.52	PK
H	11490.103	44.30	8.46	38.71	44.50	46.97	54	-7.03	AV
H	17235.021	54.42	10.12	38.38	44.10	58.82	68.2	-9.38	PK
H	17235.021	41.59	10.12	38.38	44.10	45.99	54	-8.01	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.103	56.61	6.48	36.35	44.05	55.39	74	-18.61	PK
V	4592.103	43.12	6.48	36.35	44.05	41.90	54	-12.10	AV
V	11570.111	59.69	8.47	37.88	44.51	61.53	68.2	-6.67	PK
V	11570.111	43.19	8.47	37.88	44.51	45.03	54	-8.97	AV
V	17355.107	58.38	10.12	38.80	44.10	63.20	68.2	-5.00	PK
V	17355.107	39.11	10.12	38.80	42.70	45.33	54	-8.67	AV
H	4592.154	57.35	6.48	36.37	44.05	56.15	74	-17.85	PK
H	4592.154	43.65	6.48	36.37	44.05	42.45	54	-11.55	AV
H	11570.060	54.56	8.47	38.64	44.50	57.17	68.2	-11.03	PK
H	11570.060	44.08	8.47	38.64	44.50	46.69	54	-7.31	AV
H	17355.036	50.14	10.12	38.38	44.10	54.54	68.2	-13.66	PK
H	17355.036	41.63	10.12	38.38	44.10	46.03	54	-7.97	AV
High Channel (5825 MHz)-Above 1G									
V	6039.067	59.38	7.10	37.24	43.50	60.22	68.2	-7.98	PK
V	6039.067	43.25	7.10	37.24	43.50	44.09	54	-9.91	AV
V	11650.012	61.61	8.46	37.68	44.50	63.25	74	-10.75	PK
V	11650.012	43.06	8.46	37.68	44.50	44.70	54	-9.30	AV
V	17475.168	54.46	10.12	38.80	44.10	59.28	68.2	-8.92	PK
V	17475.168	43.54	10.12	38.80	42.70	49.76	54	-4.24	AV
H	6039.034	54.36	7.10	37.24	43.50	55.20	68.2	-13.00	PK
H	6039.034	43.90	7.10	37.24	43.50	44.74	54	-9.26	AV
H	11650.102	50.71	8.46	38.57	44.50	53.24	74	-20.76	PK
H	11650.102	41.40	8.46	38.57	44.50	43.93	54	-10.07	AV
H	17475.125	54.22	10.12	38.38	44.10	58.62	68.2	-9.58	PK
H	17475.125	43.73	10.12	38.38	44.10	48.13	54	-5.87	AV

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

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

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

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

The Worst mode 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	4679.129	58.89	5.94	35.40	44.00	56.23	74	-17.77	PK
V	4679.129	43.17	5.94	35.40	44.00	40.51	54	-13.49	AV
V	11490.057	56.39	8.46	39.75	44.50	60.10	68.2	-8.10	PK
V	11490.057	43.60	8.46	39.75	44.50	47.31	54	-6.69	AV
V	17235.039	61.97	10.12	38.80	44.10	66.79	68.2	-1.41	PK
V	17235.039	43.83	10.12	38.80	42.70	50.05	54	-3.95	AV
H	4679.002	58.45	5.94	35.18	44.00	55.57	74	-18.43	PK
H	4679.002	43.22	5.94	35.18	44.00	40.34	54	-13.66	AV
H	11490.085	49.97	8.46	38.71	44.50	52.64	68.2	-15.56	PK
H	11490.085	44.52	8.46	38.71	44.50	47.19	54	-6.81	AV
H	17235.141	53.47	10.12	38.38	44.10	57.87	68.2	-10.33	PK
H	17235.141	42.58	10.12	38.38	44.10	46.98	54	-7.02	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.056	61.05	6.48	36.35	44.05	59.83	74	-14.17	PK
V	4592.056	43.16	6.48	36.35	44.05	41.94	54	-12.06	AV
V	11570.012	57.47	8.47	37.88	44.51	59.31	68.2	-8.89	PK
V	11570.012	43.03	8.47	37.88	44.51	44.87	54	-9.13	AV
V	17355.144	60.65	10.12	38.80	44.10	65.47	68.2	-2.73	PK
V	17355.144	43.06	10.12	38.80	42.70	49.28	54	-4.72	AV
H	4592.081	60.94	6.48	36.37	44.05	59.74	74	-14.26	PK
H	4592.081	43.62	6.48	36.37	44.05	42.42	54	-11.58	AV
H	11570.134	51.70	8.47	38.64	44.50	54.31	68.2	-13.89	PK
H	11570.134	42.04	8.47	38.64	44.50	44.65	54	-9.35	AV
H	17355.151	54.72	10.12	38.38	44.10	59.12	68.2	-9.08	PK
H	17355.151	44.40	10.12	38.38	44.10	48.80	54	-5.20	AV
High Channel (5825 MHz)-Above 1G									
V	6039.043	55.97	7.10	37.24	43.50	56.81	68.2	-11.39	PK
V	6039.043	43.37	7.10	37.24	43.50	44.21	54	-9.79	AV
V	11650.089	59.41	8.46	37.68	44.50	61.05	74	-12.95	PK
V	11650.089	43.38	8.46	37.68	44.50	45.02	54	-8.98	AV
V	17475.023	59.26	10.12	38.80	44.10	64.08	68.2	-4.12	PK
V	17475.023	43.85	10.12	38.80	42.70	50.07	54	-3.93	AV
H	6039.027	59.61	7.10	37.24	43.50	60.45	68.2	-7.75	PK
H	6039.027	43.64	7.10	37.24	43.50	44.48	54	-9.52	AV
H	11650.107	51.79	8.46	38.57	44.50	54.32	74	-19.68	PK
H	11650.107	40.48	8.46	38.57	44.50	43.01	54	-10.99	AV
H	17475.183	53.96	10.12	38.38	44.10	58.36	68.2	-9.84	PK
H	17475.183	40.29	10.12	38.38	44.10	44.69	54	-9.31	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	4679.153	56.63	5.94	35.40	44.00	53.97	74	-20.03	PK
V	4679.153	43.94	5.94	35.40	44.00	41.28	54	-12.72	AV
V	11510.003	56.17	8.46	39.75	44.50	59.88	74	-14.12	PK
V	11510.003	43.47	8.46	39.75	44.50	47.18	54	-6.82	AV
V	17265.123	57.91	10.12	38.80	44.10	62.73	68.2	-5.47	PK
V	17265.123	2.00	10.12	38.80	42.70	8.22	54	-45.78	AV
H	4679.139	60.32	5.94	35.18	44.00	57.44	74	-16.56	PK
H	4679.139	43.87	5.94	35.18	44.00	40.99	54	-13.01	AV
H	11510.039	53.24	8.46	38.71	44.50	55.91	74	-18.09	PK
H	11510.039	42.32	8.46	38.71	44.50	44.99	54	-9.01	AV
H	17265.012	50.75	10.12	38.38	44.10	55.15	68.2	-13.05	PK
H	17265.012	42.68	10.12	38.38	44.10	47.08	54	-6.92	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.189	56.19	6.48	36.35	44.05	54.97	68.2	-13.23	PK
V	6039.189	43.97	6.48	36.35	44.05	42.75	54	-11.25	AV
V	11590.065	57.36	8.47	37.88	44.51	59.20	74	-14.80	PK
V	11590.065	43.11	8.47	37.88	44.51	44.95	54	-9.05	AV
V	17385.094	55.56	10.12	38.80	44.10	60.38	68.2	-7.82	PK
V	17385.094	41.05	10.12	38.80	42.70	47.27	54	-6.73	AV
H	6039.000	59.15	6.48	36.37	44.05	57.95	68.2	-10.25	PK
H	6039.000	43.78	6.48	36.37	44.05	42.58	54	-11.42	AV
H	11590.003	54.10	8.47	38.64	44.50	56.71	74	-17.29	PK
H	11590.003	40.42	8.47	38.64	44.50	43.03	54	-10.97	AV
H	17385.133	53.68	10.12	38.38	44.10	58.08	68.2	-10.12	PK
H	17385.133	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	4679.103	56.41	5.94	35.40	44.00	53.75	74	-20.25	PK
V	4679.103	43.91	5.94	35.40	44.00	41.25	54	-12.75	AV
V	11490.088	54.46	8.46	39.75	44.50	58.17	68.2	-10.03	PK
V	11490.088	43.28	8.46	39.75	44.50	46.99	54	-7.01	AV
V	17235.048	59.26	10.12	38.80	44.10	64.08	68.2	-4.12	PK
V	17235.048	43.31	10.12	38.80	42.70	49.53	54	-4.47	AV
H	4679.106	58.40	5.94	35.18	44.00	55.52	74	-18.48	PK
H	4679.106	43.96	5.94	35.18	44.00	41.08	54	-12.92	AV
H	11490.118	48.11	8.46	38.71	44.50	50.78	68.2	-17.42	PK
H	11490.118	43.16	8.46	38.71	44.50	45.83	54	-8.17	AV
H	17235.121	52.21	10.12	38.38	44.10	56.61	68.2	-11.59	PK
H	17235.121	43.32	10.12	38.38	44.10	47.72	54	-6.28	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.166	62.97	6.48	36.35	44.05	61.75	74	-12.25	PK
V	4592.166	43.84	6.48	36.35	44.05	42.62	54	-11.38	AV
V	11570.014	58.86	8.47	37.88	44.51	60.70	68.2	-7.50	PK
V	11570.014	43.97	8.47	37.88	44.51	45.81	54	-8.19	AV
V	17355.186	61.81	10.12	38.80	44.10	66.63	68.2	-1.57	PK
V	17355.186	43.69	10.12	38.80	42.70	49.91	54	-4.09	AV
H	4592.021	57.05	6.48	36.37	44.05	55.85	74	-18.15	PK
H	4592.021	43.69	6.48	36.37	44.05	42.49	54	-11.51	AV
H	11570.006	54.80	8.47	38.64	44.50	57.41	68.2	-10.79	PK
H	11570.006	42.03	8.47	38.64	44.50	44.64	54	-9.36	AV
H	17355.024	50.80	10.12	38.38	44.10	55.20	68.2	-13.00	PK
H	17355.024	40.36	10.12	38.38	44.10	44.76	54	-9.24	AV
High Channel (5825 MHz)-Above 1G									
V	6039.038	59.45	7.10	37.24	43.50	60.29	68.2	-7.91	PK
V	6039.038	43.45	7.10	37.24	43.50	44.29	54	-9.71	AV
V	11650.116	60.20	8.46	37.68	44.50	61.84	74	-12.16	PK
V	11650.116	43.63	8.46	37.68	44.50	45.27	54	-8.73	AV
V	17475.051	56.15	10.12	38.80	44.10	60.97	68.2	-7.23	PK
V	17475.051	43.10	10.12	38.80	42.70	49.32	54	-4.68	AV
H	6039.035	58.16	7.10	37.24	43.50	59.00	68.2	-9.20	PK
H	6039.035	43.51	7.10	37.24	43.50	44.35	54	-9.65	AV
H	11650.011	51.70	8.46	38.57	44.50	54.23	74	-19.77	PK
H	11650.011	42.64	8.46	38.57	44.50	45.17	54	-8.83	AV
H	17475.153	51.87	10.12	38.38	44.10	56.27	68.2	-11.93	PK
H	17475.153	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 (5.8G) -- 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	4679.138	60.24	5.94	35.40	44.00	57.58	74	-16.42	PK
V	4679.138	43.51	5.94	35.40	44.00	40.85	54	-13.15	AV
V	11510.060	56.72	8.46	39.75	44.50	60.43	74	-13.57	PK
V	11510.060	43.96	8.46	39.75	44.50	47.67	54	-6.33	AV
V	17265.013	58.91	10.12	38.80	44.10	63.73	68.2	-4.47	PK
V	17265.013	2.00	10.12	38.80	42.70	8.22	54	-45.78	AV
H	4679.038	58.80	5.94	35.18	44.00	55.92	74	-18.08	PK
H	4679.038	43.72	5.94	35.18	44.00	40.84	54	-13.16	AV
H	11510.086	53.91	8.46	38.71	44.50	56.58	74	-17.42	PK
H	11510.086	42.98	8.46	38.71	44.50	45.65	54	-8.35	AV
H	17265.010	50.10	10.12	38.38	44.10	54.50	68.2	-13.70	PK
H	17265.010	41.04	10.12	38.38	44.10	45.44	54	-8.56	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.123	60.04	6.48	36.35	44.05	58.82	68.2	-9.38	PK
V	6039.123	43.04	6.48	36.35	44.05	41.82	54	-12.18	AV
V	11590.165	56.58	8.47	37.88	44.51	58.42	74	-15.58	PK
V	11590.165	43.78	8.47	37.88	44.51	45.62	54	-8.38	AV
V	17385.081	55.28	10.12	38.80	44.10	60.10	68.2	-8.10	PK
V	17385.081	41.89	10.12	38.80	42.70	48.11	54	-5.89	AV
H	6039.166	58.26	6.48	36.37	44.05	57.06	68.2	-11.14	PK
H	6039.166	43.78	6.48	36.37	44.05	42.58	54	-11.42	AV
H	11590.193	53.92	8.47	38.64	44.50	56.53	74	-17.47	PK
H	11590.193	43.73	8.47	38.64	44.50	46.34	54	-7.66	AV
H	17385.193	50.42	10.12	38.38	44.10	54.82	68.2	-13.38	PK
H	17385.193	40.13	10.12	38.38	44.10	44.53	54	-9.47	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode :	TX (5.8G) -- 802.11ac 80
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Polar (H/V)	Frequency (MHz)	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 (5775 MHz)-Above 1G									
V	4679.149	59.45	5.94	35.40	44.00	56.79	74	-17.21	PK
V	4679.149	43.79	5.94	35.40	44.00	41.13	54	-12.87	AV
V	11550.116	57.55	8.46	39.75	44.50	61.26	74	-12.74	PK
V	11550.116	42.98	8.46	39.75	44.50	46.69	54	-7.31	AV
V	17325.133	56.15	10.12	38.80	44.10	60.97	68.2	-7.23	PK
V	17325.133	41.82	10.12	38.80	42.70	48.04	54	-5.96	AV
H	4679.047	56.90	5.94	35.18	44.00	54.02	74	-19.98	PK
H	4679.047	43.35	5.94	35.18	44.00	40.47	54	-13.53	AV
H	11550.038	50.13	8.46	38.71	44.50	52.80	74	-21.20	PK
H	11550.038	42.24	8.46	38.71	44.50	44.91	54	-9.09	AV
H	17325.022	54.54	10.12	38.38	44.10	58.94	68.2	-9.26	PK
H	17325.022	42.89	10.12	38.38	44.10	47.29	54	-6.71	AV

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

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

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

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

Test Mode is MIMO Mode.

8. Power Spectral Density Test

8.1 Block Diagram Of Test Setup



8.2 Limit

For the band 5.15-5.25 GHz,

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

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

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

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

For the band 5.725-5.85 GHz

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

8.3 Test Procedure

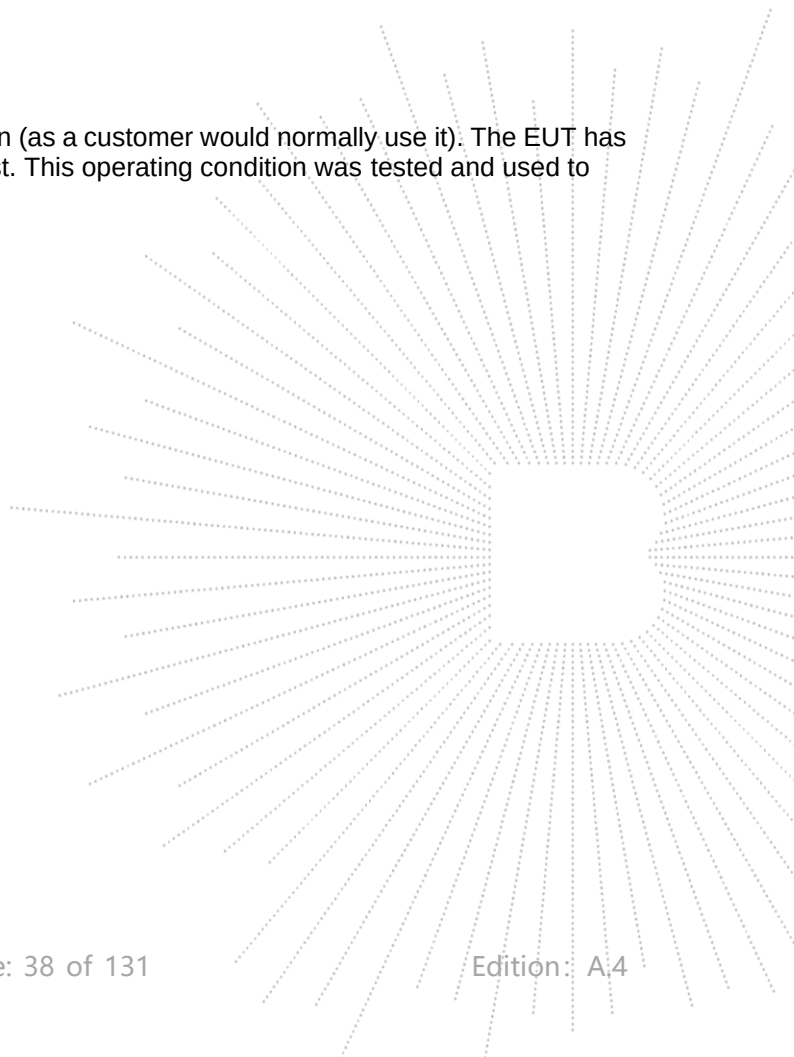
For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of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

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

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

8.4 EUT Operating Conditions

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

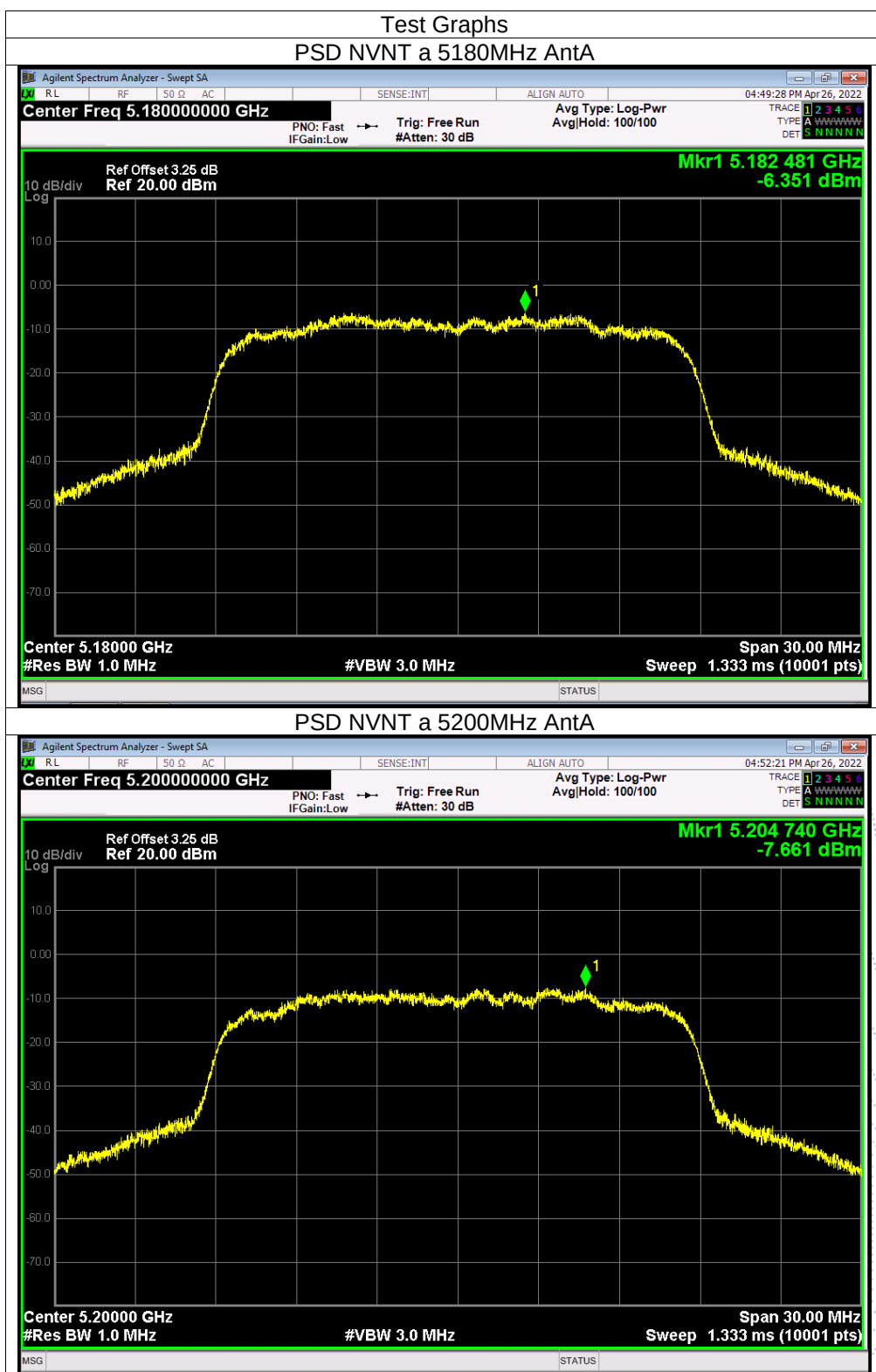


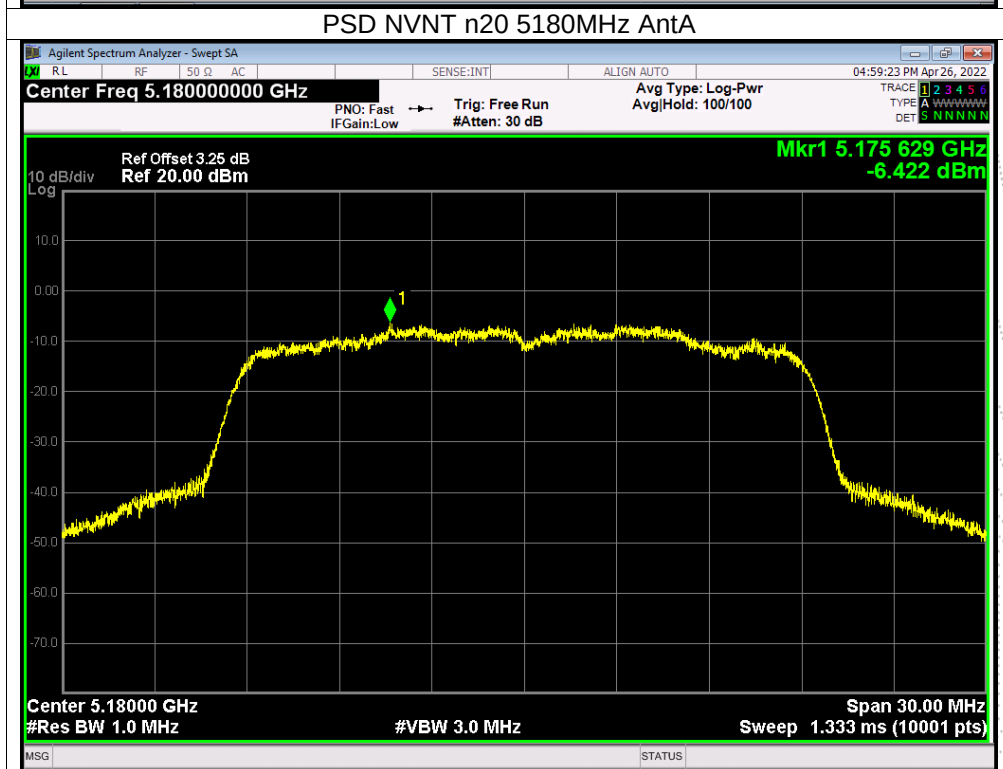
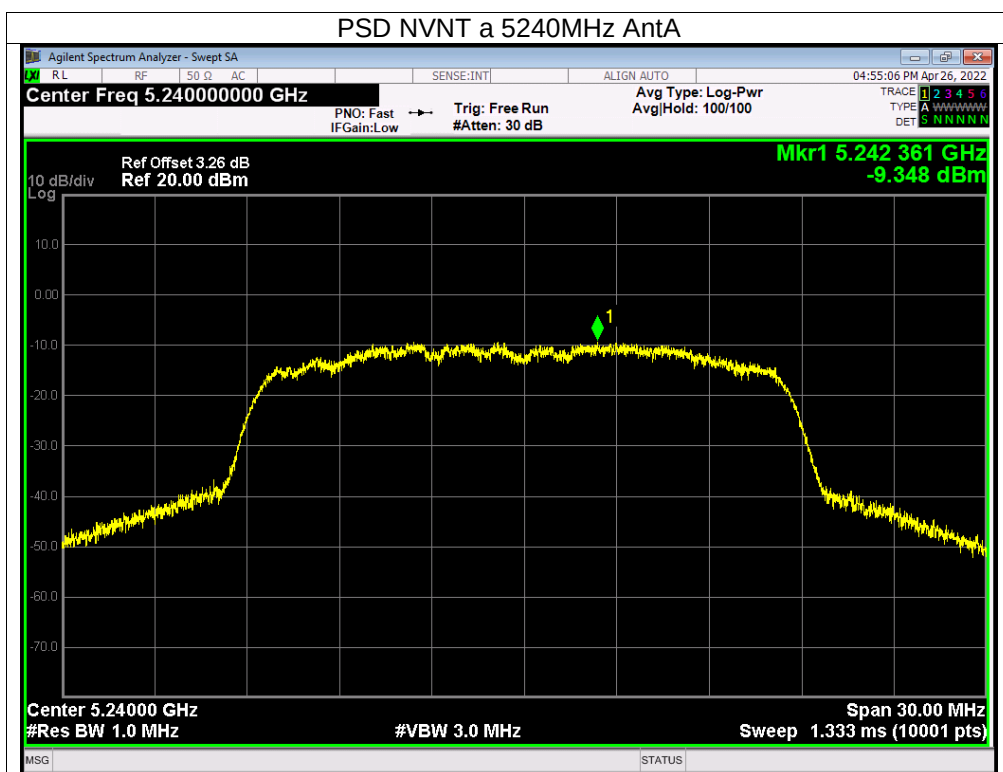
8.5 Test Result

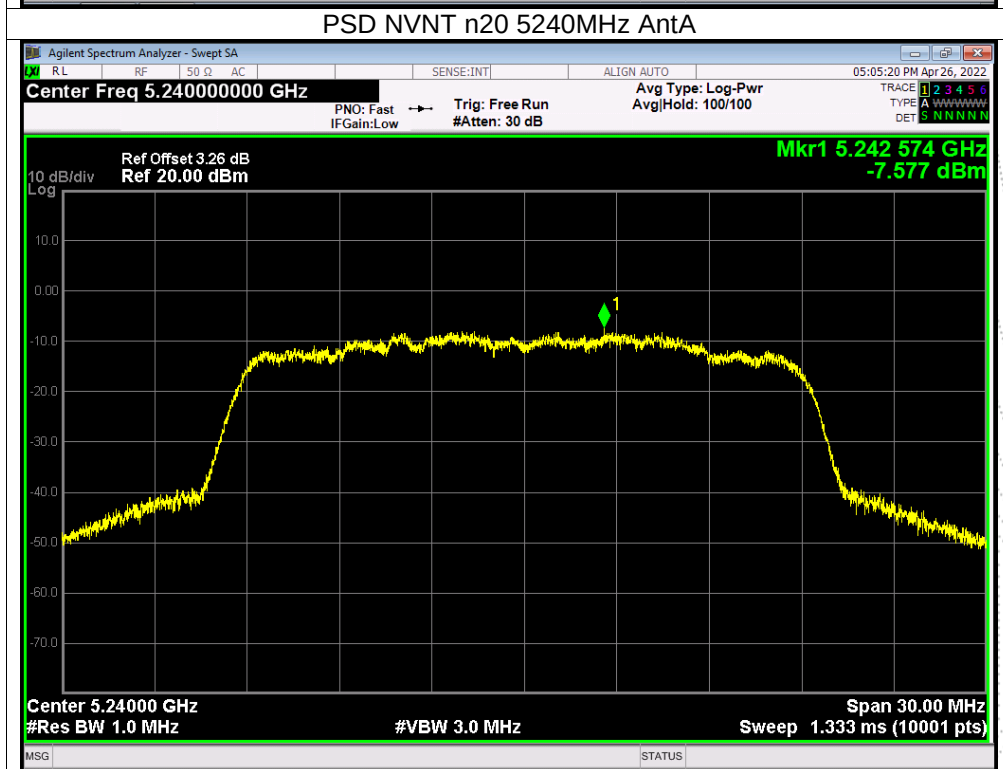
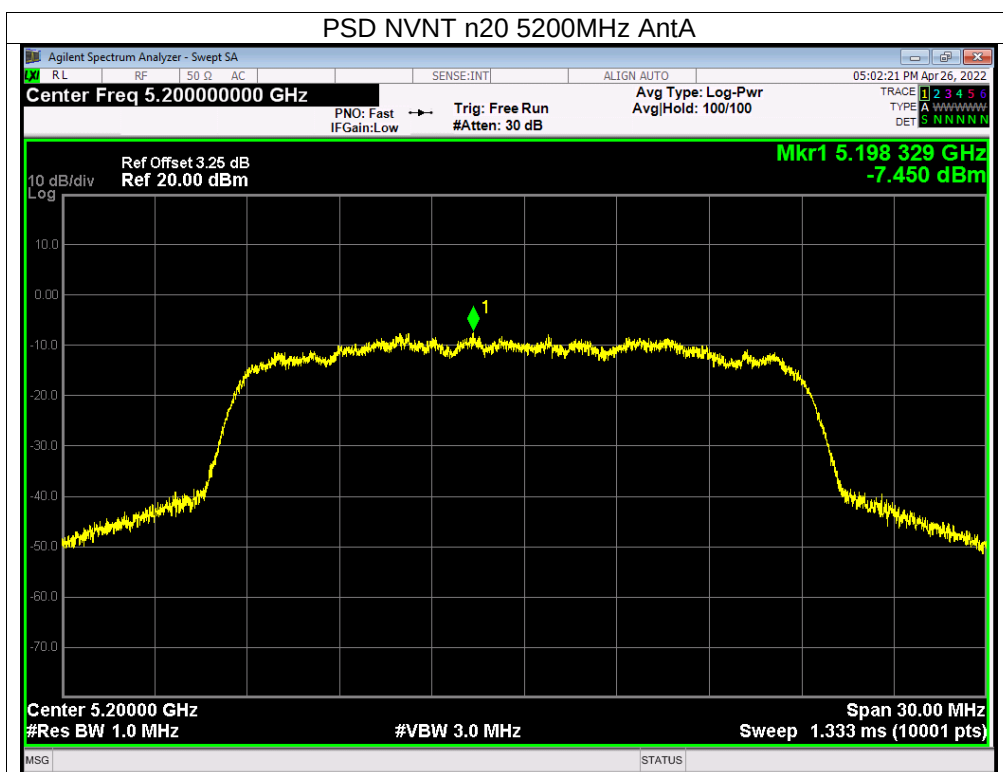
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 7.6V
Test Mode :	TX Frequency U-NII-1 (5180-5240MHz)		

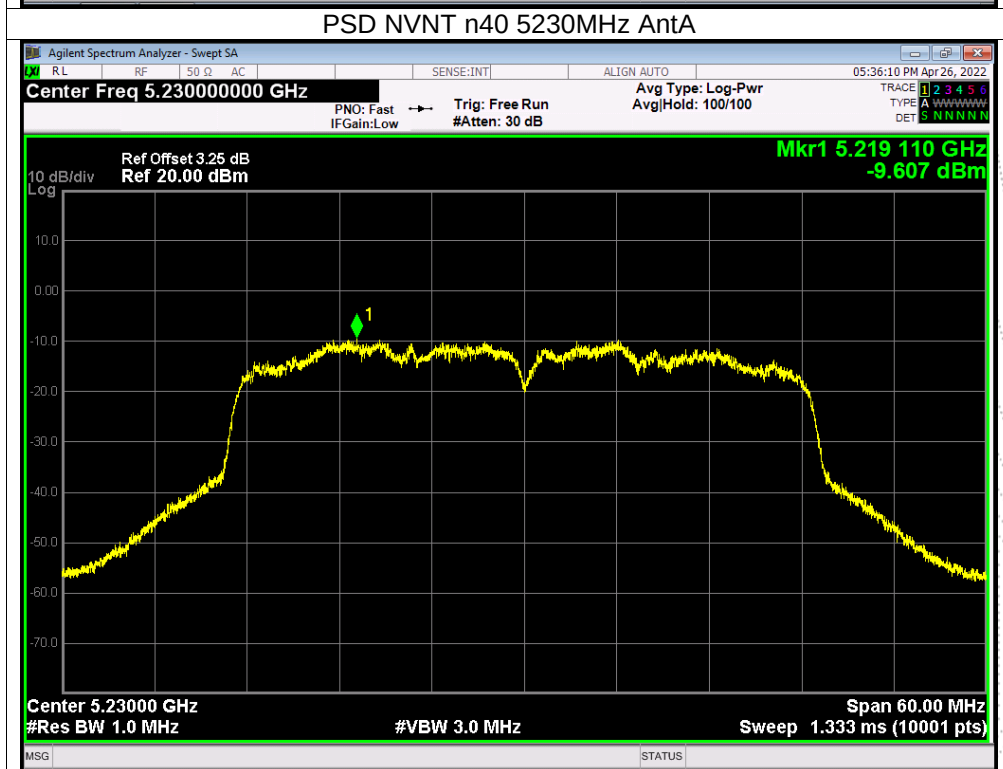
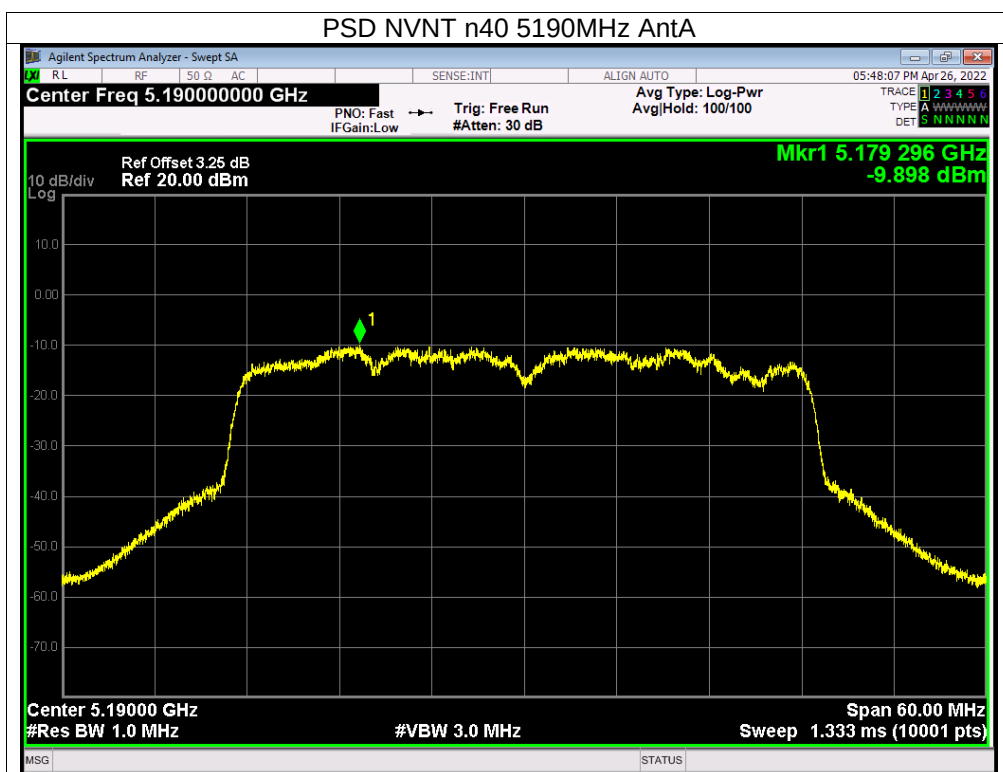
Mode	Frequency	Measured Power Density (dBm/MHz)			Limit (dBm/MHz)	Result
		ANT A	ANT B	Total		
802.11 a	5180 MHz	-6.35	-7.12	/	11	PASS
	5200 MHz	-7.66	-6.58	/	11	PASS
	5240 MHz	-9.35	-9.28	/	11	PASS
802.11 n20	5180 MHz	-6.42	-8.36	-4.27	11	PASS
	5200 MHz	-7.45	-7.95	-4.68	11	PASS
	5240 MHz	-7.58	-8.63	-5.06	11	PASS
802.11 n40	5190 MHz	-9.9	-11.93	-7.79	11	PASS
	5230 MHz	-9.61	-13.85	-8.22	11	PASS
802.11 ac20	5180 MHz	-9.48	-7.52	-5.38	11	PASS
	5200 MHz	-7.61	-7.94	-4.76	11	PASS
	5240 MHz	-8.03	-10.33	-6.02	11	PASS
802.11 ac40	5190 MHz	-10.02	-12.2	-7.96	11	PASS
	5230 MHz	-11.66	-11.46	-8.55	11	PASS
802.11 AC80	5210 MHz	-13.72	-16.96	-12.03	11	PASS

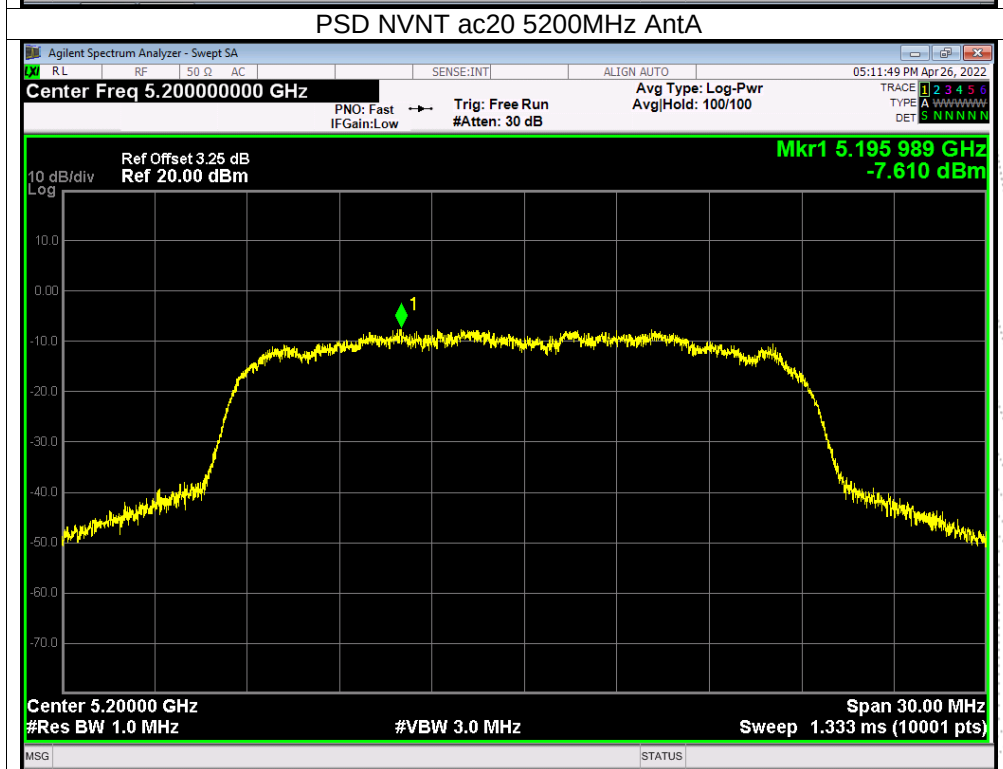
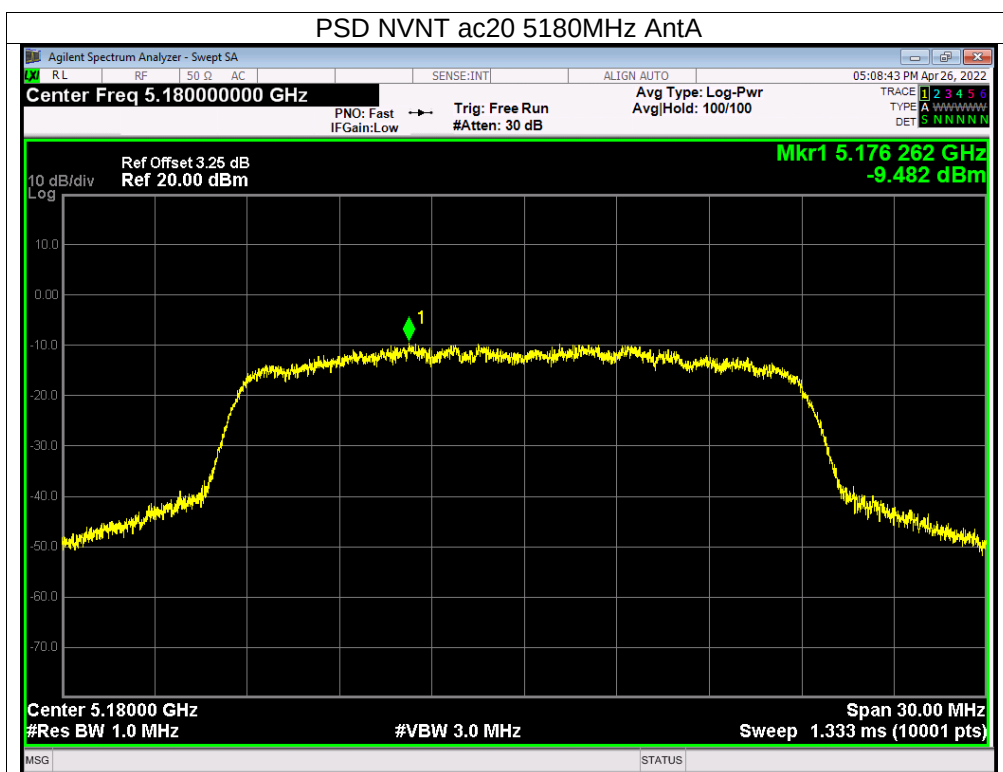
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

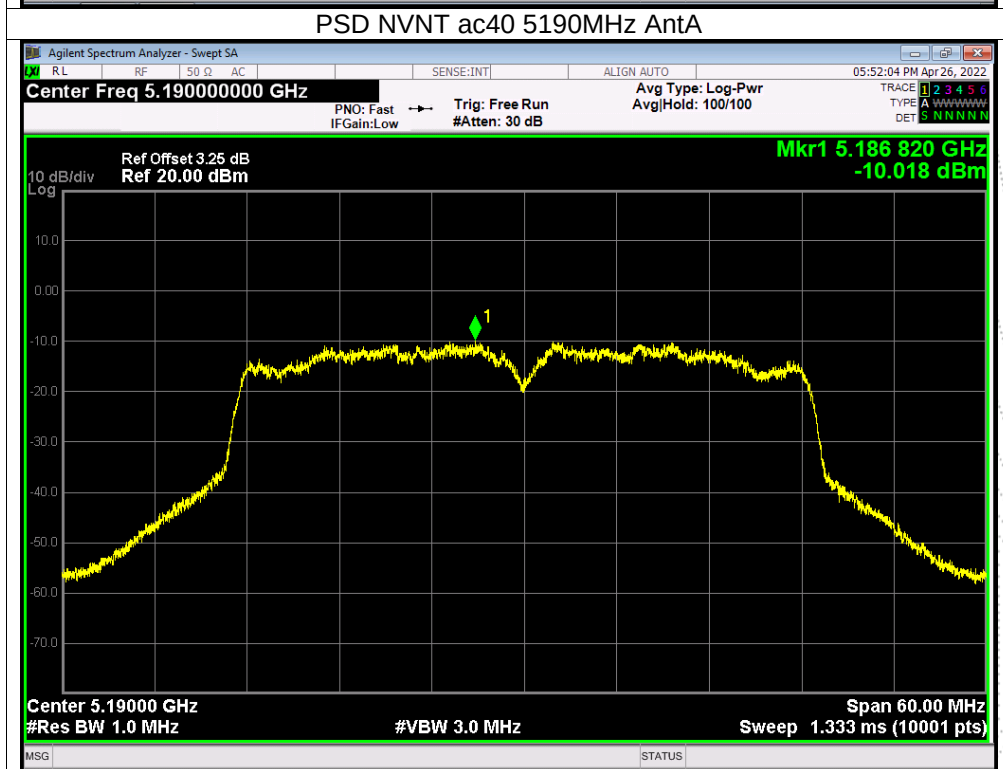
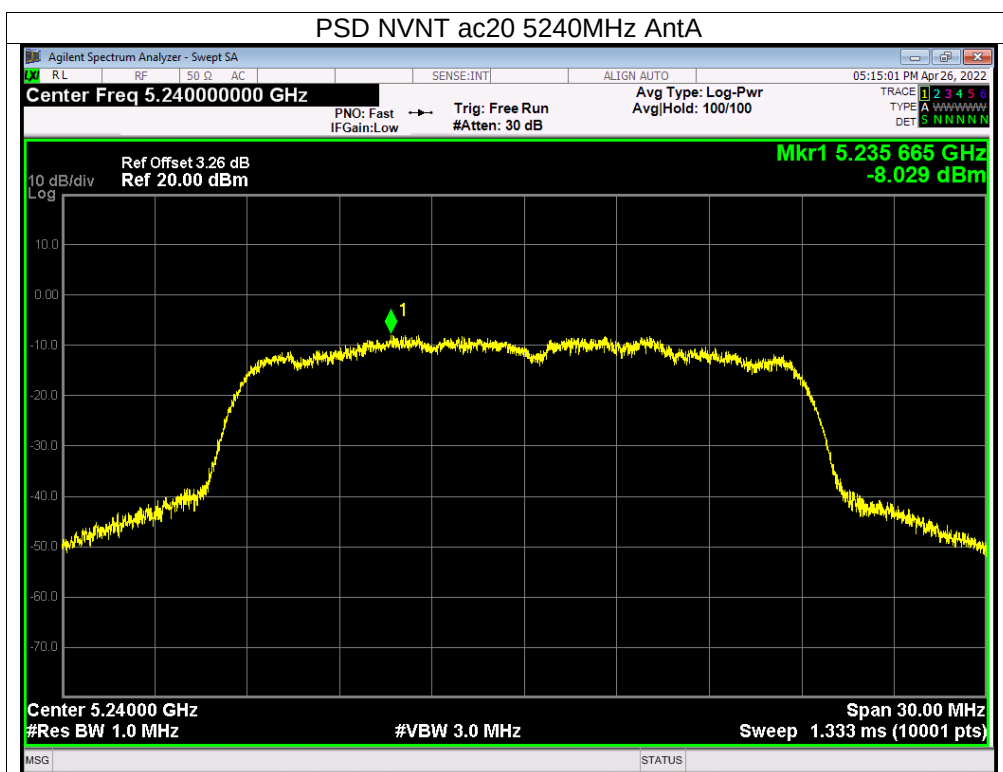


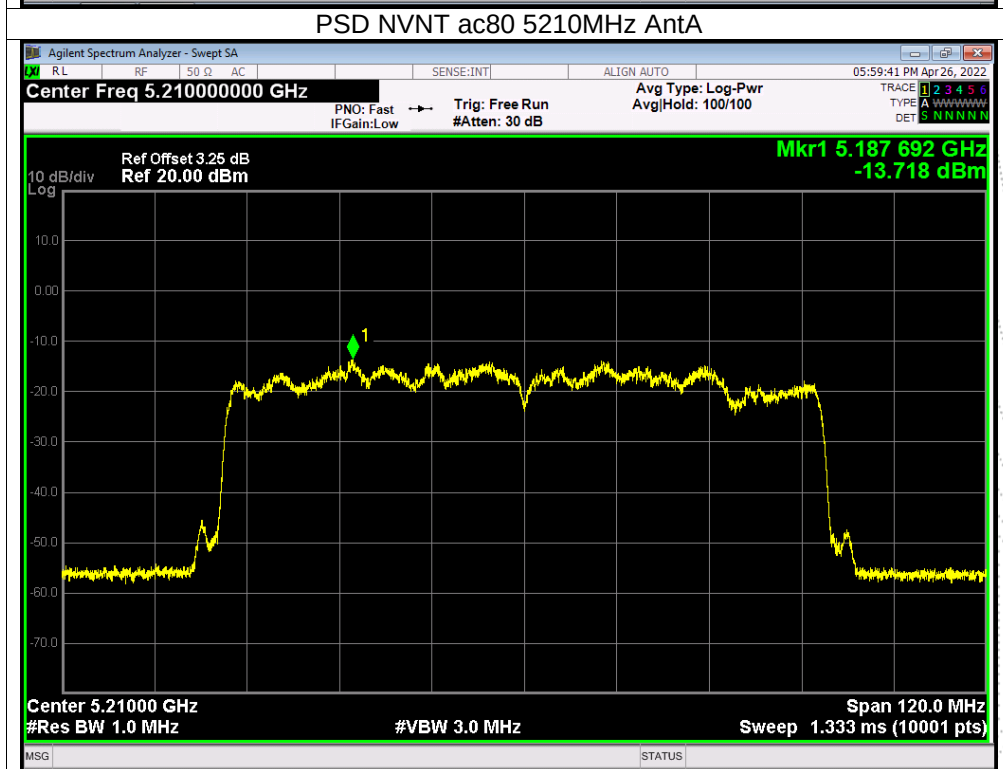
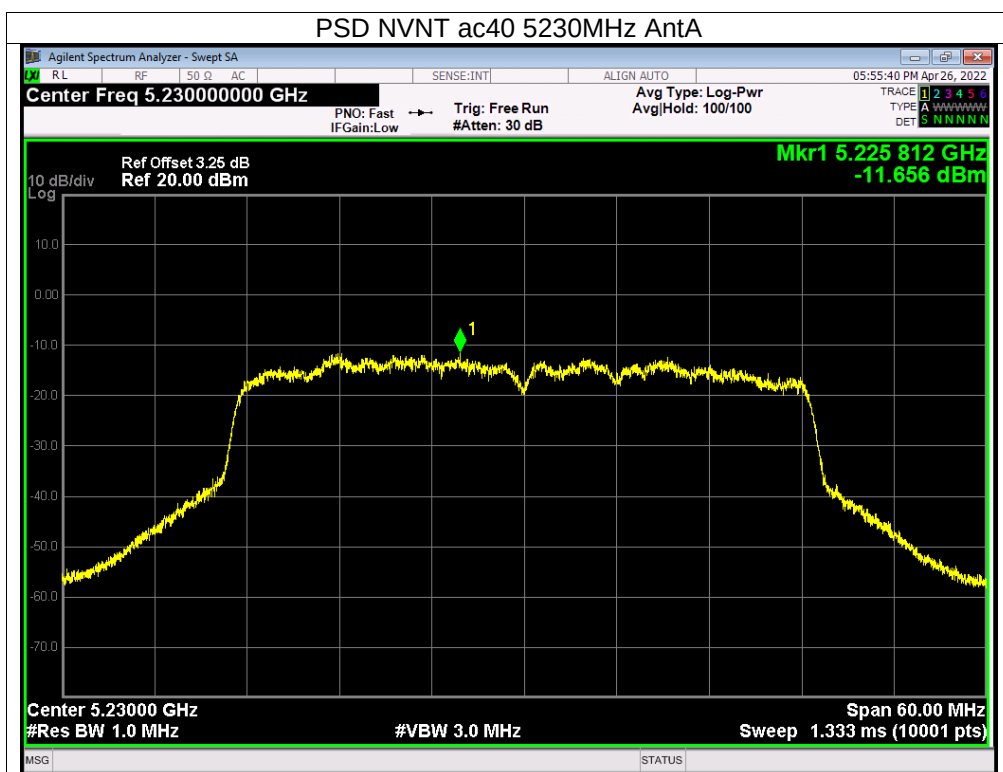












Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 7.6V
Test Mode :	TX Frequency U-NII-3 (5745-5825MHz)		

Mode	Frequency	Measured Power Density (dBm/500KHz)			Limit (dBm/500kHz)	Result
		ANT A	ANT B	Total		
802.11 a	5745 MHz	0.24	-0.76	/	30	PASS
	5785 MHz	-1.56	-1.81	/	30	PASS
	5825 MHz	-2.85	-2.37	/	30	PASS
802.11 n20	5745 MHz	-1.21	-0.84	1.99	30	PASS
	5785 MHz	-1.9	-2.36	0.89	30	PASS
	5825 MHz	-2.54	-2.91	0.29	30	PASS
802.11 n40	5755 MHz	-4.91	-5.05	-1.97	30	PASS
	5795 MHz	-5.88	-5.86	-2.86	30	PASS
802.11 ac20	5745 MHz	-0.94	-1.86	1.63	30	PASS
	5785 MHz	-2.47	-1.84	0.87	30	PASS
	5825 MHz	-2.71	-4.18	-0.37	30	PASS
802.11 ac40	5755 MHz	-4.24	-5.41	-1.78	30	PASS
	5795 MHz	-5.74	-5.7	-2.71	30	PASS
802.11 AC80	5775 MHz	-7.6	-8.83	-5.16	30	PASS

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

