

TEST REPORT

Report No.: BCTC2211266692-4E

Applicant: SHEN ZHEN NST INDUSTRY AND TRADE CO.,LTD

Product Name: 10.1inch tablet pc

Model/Type Ref.: M107FT

Tested Date: 2022-11-29 to 2022-12-13

Issued Date: 2022-12-13

Shenzhen BCTC Testing Co., Ltd.



FCC ID:2AAMS-M107FT

Product Name: 10.1inch tablet pc
Trademark: N/A
Model/Type Ref.: M107FT
M107FA,M107FB,M107FC,M107FD,M107FE
Prepared For: SHEN ZHEN NST INDUSTRY AND TRADE CO.,LTD
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Sample Received Date: 2022-11-29
Sample tested Date: 2022-11-29 to 2022-12-13
Issue Date: 2022-12-13
Report No.: BCTC2211266692-4E
FCC Part15 15.407
Test Standards ANSI C63.10-2013
KDB 662911 D01 v02r01
KDB 789033 D02 v02r01
Test Results PASS

Tested by:



Jeff.Fu/Project Handler

Approved by:



Zero Zhou/Reviewer

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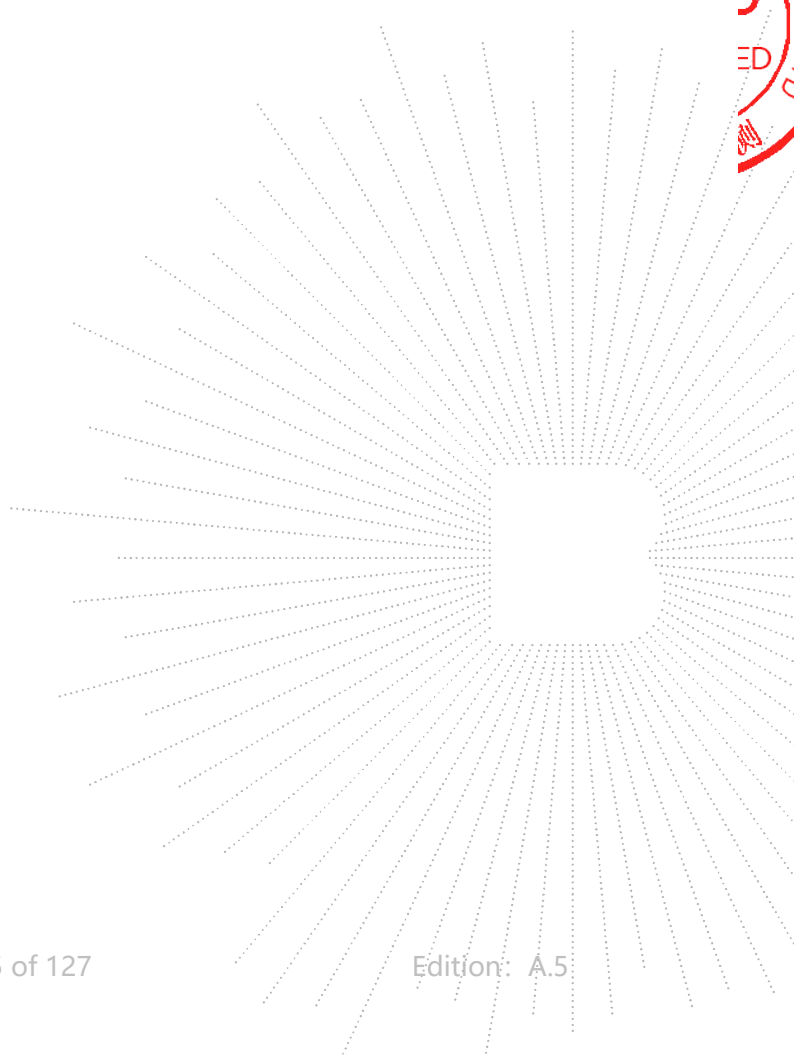
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(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2211266692-4E	2022-12-13	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)(6)	PASS
2	Conducted Emission	15.207	PASS
3	26 dB and 99% Emission Bandwidth	15.407 (a)(5) 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

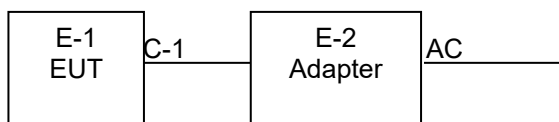
4.1 Product Information

Model/Type Ref.:	M107FT M107FA,M107FB,M107FC,M107FD,M107FE
Model differences:	All the model are the same circuit and RF module, except model names and appearance 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)
Operation Frequency:	5180-5240MHz for 802.11a/n/ac(HT20); 5190-5230MHz for 802.11n/ac(HT40); 5210MHz for 802.11 ac80;
Data Rate	5745-5825 MHz for 802.11a/n(HT20)/ac20; 5755-5795 MHz for 802.11a/n(HT40)/ac40; 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 5 channels for 802.11a/n20 in the 5745-5825MHz band ; 2 channels for 802.11 n40 in the 5755-5795MHz band ;
Antenna installation:	FPCB antenna
Antenna Gain:	5150-5250 MHz:0.72 dBi 5750-5850 MHz:0.56 dBi
Ratings:	DC 5V From Adapter, DC 3.8V From Battery
Adapter:	Manufacture: Shenzhen Jiuzhou Power Technology Co., Ltd. Model No.:J121L-0502000IU Input:100-240~ 50/60Hz 0.6A Output: DC 5V 2A

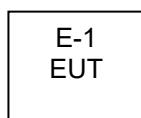
4.2 Test Setup Configuration

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	10.1inch tablet pc	N/A	M107FT	N/A	EUT
E-2	Adapter	N/A	J121L-0502000IU	N/A	EUT

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

5.1G

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
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)	Channel	Frequency (MHz)
38	5190	46	5230	-	-	-	-
151	5755	159	5795	-	-	-	-

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

5.8G

802.11a/n/ac(20MHz) 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)	Channel	Frequency (MHz)
151	5755	159	5795	-	-	-	-

802.11n/ac (80MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	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.

5.1G

Pretest Mode	Description
Mode 1	802.11a / n/ ac 20 CH36/ CH40/ CH 48
Mode 2	802.11n/ ac40 CH38/ CH 46
Mode 3	802.11 ac80 CH 42
Mode 4	Link Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11a / n/ ac 20 CH36/ CH40/ CH 48
Mode 2	802.11n/ ac40 CH38/ CH 46
Mode 3	802.11 ac80 CH 42/
Mode 4	802.11a / n/ ac 20 CH36/ CH40/ CH 48

Note:

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

5.8G

Pretest Mode	Description
Mode 1	802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac 80 CH155
Mode 4	Link Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac 80 CH155

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

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

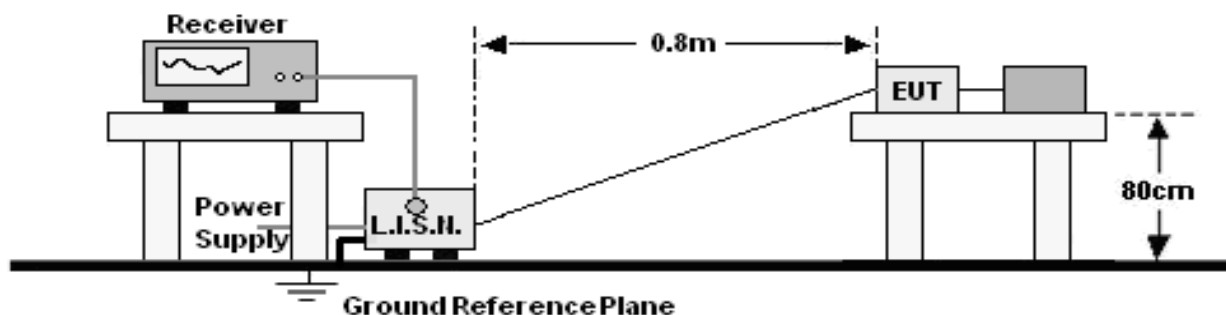
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	\	May 24, 2022	May 23, 2023
Power Sensor (AV)	Keysight	E9300A	\	May 24, 2022	May 23, 2023
Signal Analyzer 20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023
Spectrum Analyzer 9kHz-40GHz	R&S	FSP40	100363	May 24, 2022	May 23, 2023
Radio frequency control box	MAIWEI	MW100-RF CB	\	\	\
Software	MAIWEI	MTS 8310	\	\	\

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	Schwarzbeck	BBV9744	9744-0037	May 24, 2022	May 23, 2023
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 26, 2022	May 25, 2023
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 24, 2022	May 23, 2023
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 06, 2022	Jun. 05, 2023
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 26, 2022	May 25, 2023
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 06, 2022	Jun. 05, 2023
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 24, 2022	May 23, 2023
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

CO., LTD.

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.

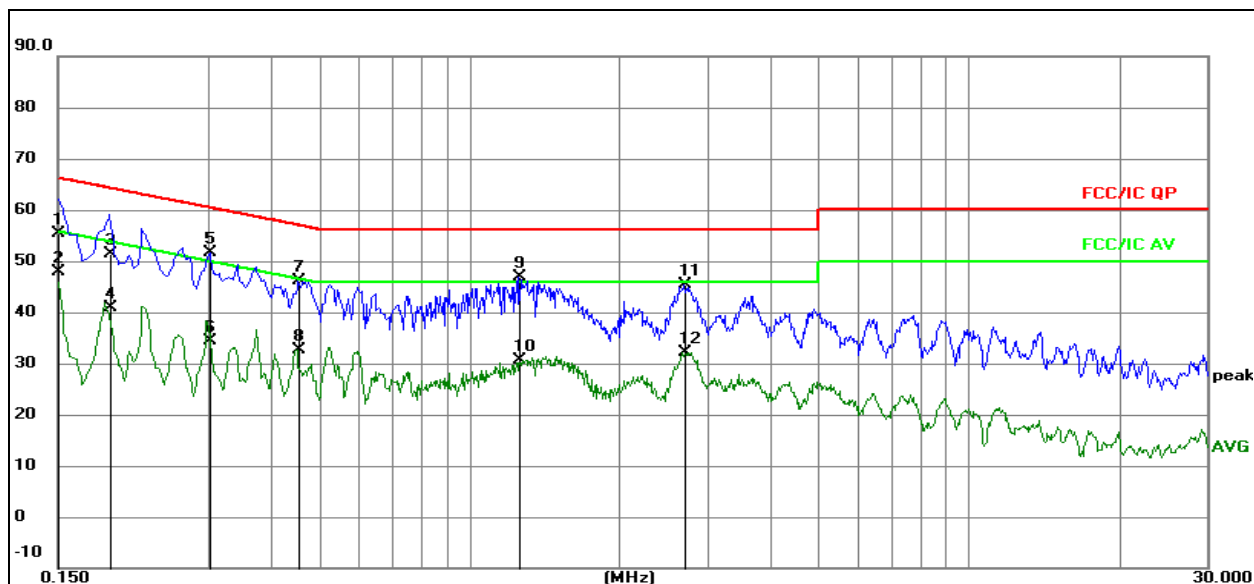
6.4 EUT Operating Conditions

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.

We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.

6.5 Test Result

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

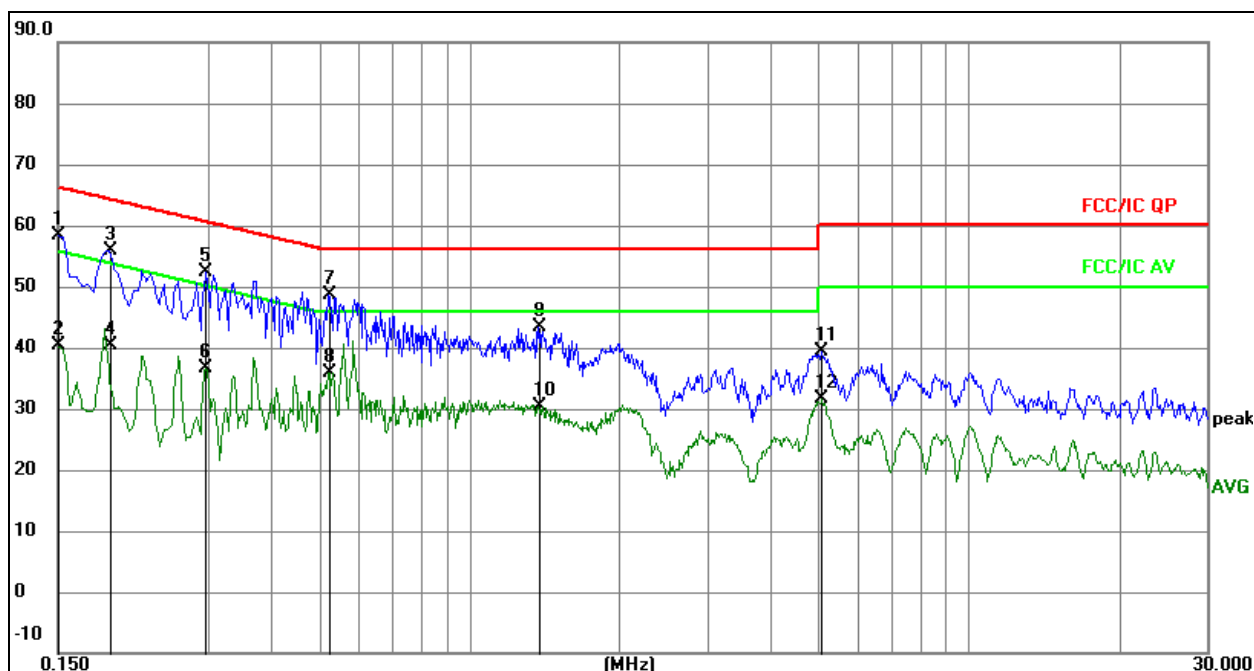


Remark:

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	0.1500	35.79	19.67	55.46	66.00	-10.54	QP
2 *	0.1500	28.25	19.67	47.92	56.00	-8.08	AVG
3	0.1910	31.63	19.78	51.41	63.99	-12.58	QP
4	0.1910	21.21	19.78	40.99	53.99	-13.00	AVG
5	0.3030	31.80	19.77	51.57	60.16	-8.59	QP
6	0.3030	14.56	19.77	34.33	50.16	-15.83	AVG
7	0.4560	26.38	19.73	46.11	56.77	-10.66	QP
8	0.4560	12.93	19.73	32.66	46.77	-14.11	AVG
9	1.2570	27.14	19.79	46.93	56.00	-9.07	QP
10	1.2570	10.90	19.79	30.69	46.00	-15.31	AVG
11	2.7015	25.42	19.96	45.38	56.00	-10.62	QP
12	2.7015	12.27	19.96	32.23	46.00	-13.77	AVG

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


Remark:

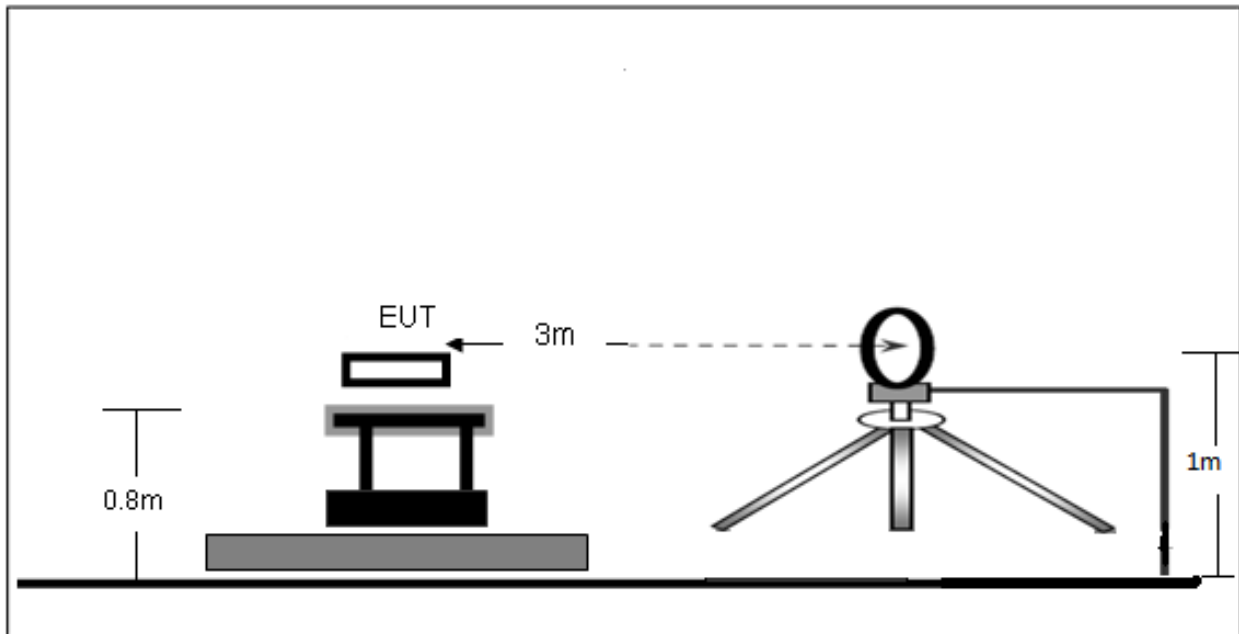
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over=Measurement-Limit

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1500	38.61	19.67	58.28	66.00	-7.72	QP
2		0.1500	20.70	19.67	40.37	56.00	-15.63	AVG
3		0.1904	36.17	19.78	55.95	64.02	-8.07	QP
4		0.1904	20.66	19.78	40.44	54.02	-13.58	AVG
5		0.2971	32.62	19.77	52.39	60.32	-7.93	QP
6		0.2971	16.81	19.77	36.58	50.32	-13.74	AVG
7	*	0.5210	28.92	19.72	48.64	56.00	-7.36	QP
8		0.5210	16.27	19.72	35.99	46.00	-10.01	AVG
9		1.3738	23.52	19.80	43.32	56.00	-12.68	QP
10		1.3738	10.67	19.80	30.47	46.00	-15.53	AVG
11		5.0580	19.14	20.13	39.27	60.00	-20.73	QP
12		5.0580	11.38	20.13	31.51	50.00	-18.49	AVG

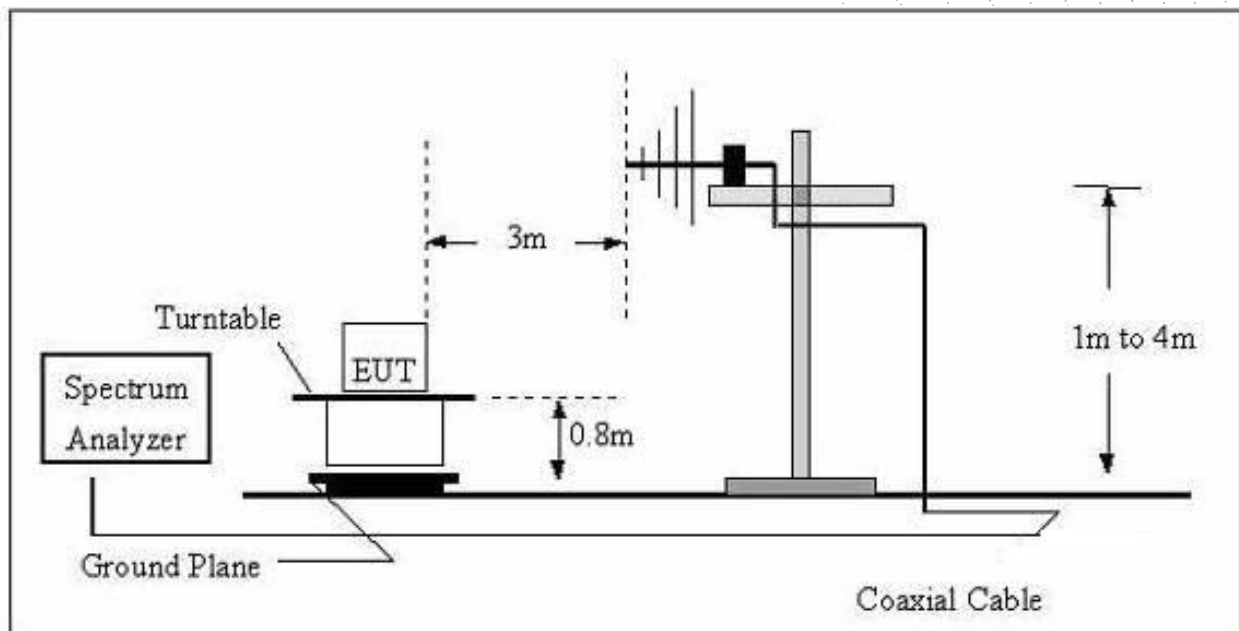
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

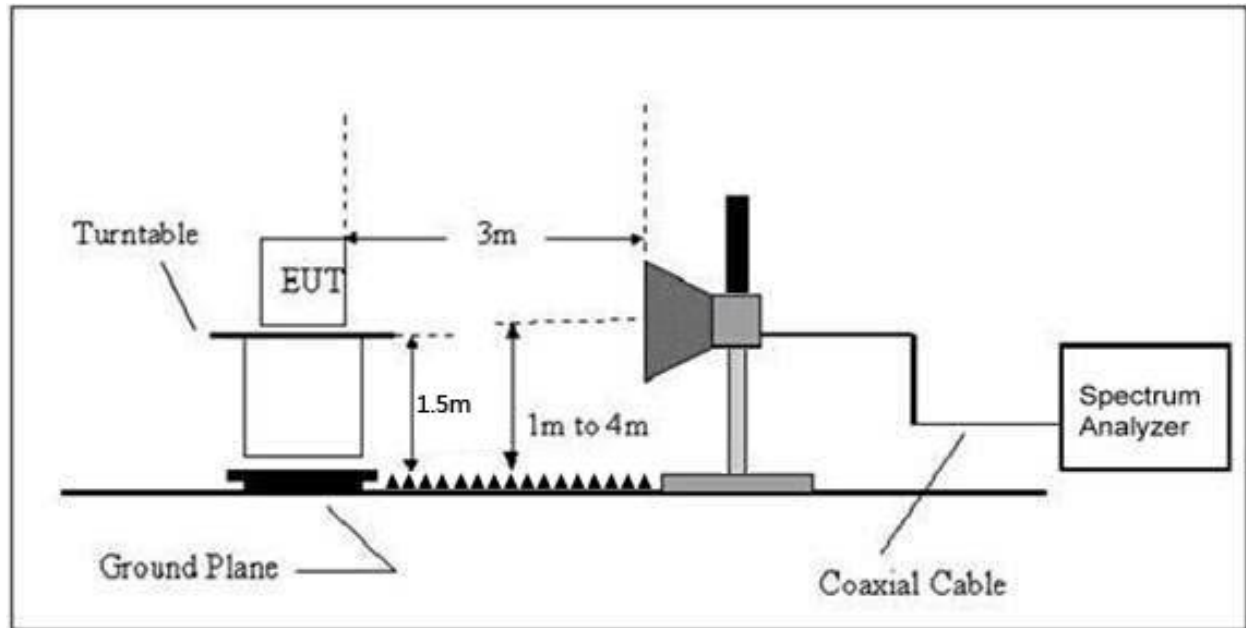
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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(kHz)	300	$10000 * 2400/F(kHz)$	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	$100 * 24000/F(kHz)$	$20\log^{(24000/F(kHz))} + 40$
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 3.8V
Test Mode :	Mode 4	Polarization :	--

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

Note:

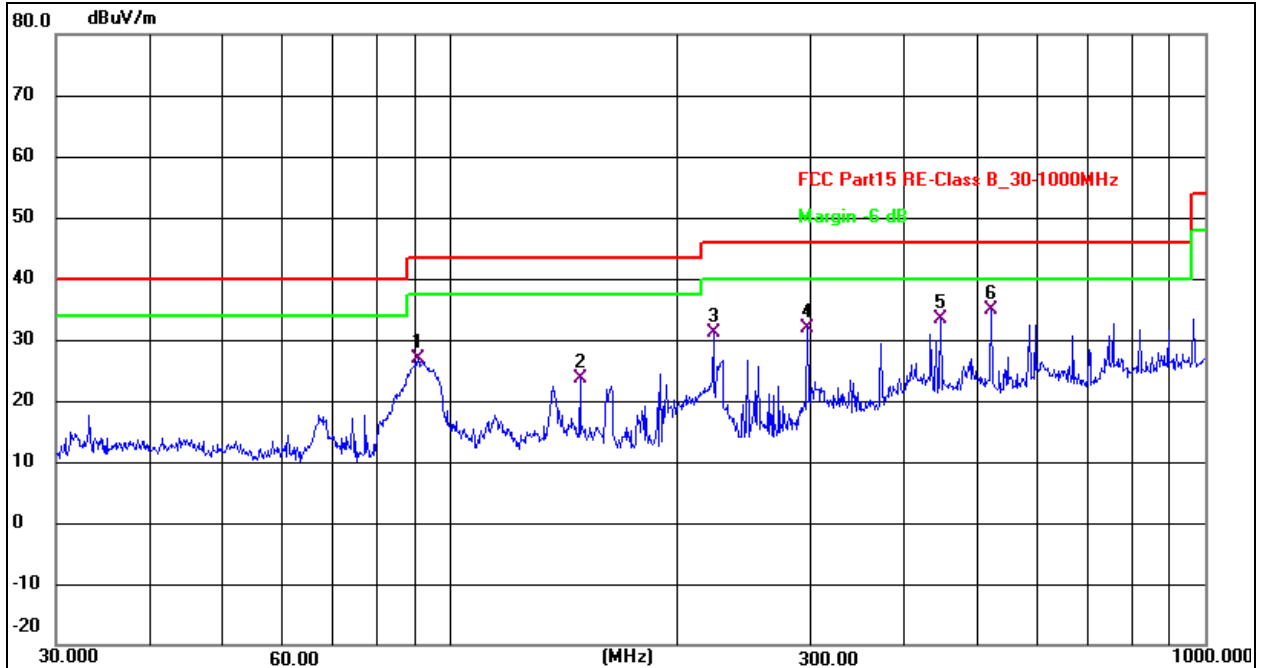
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	DC 3.8V
Test Mode:	Mode 4	Polarization :	Horizontal

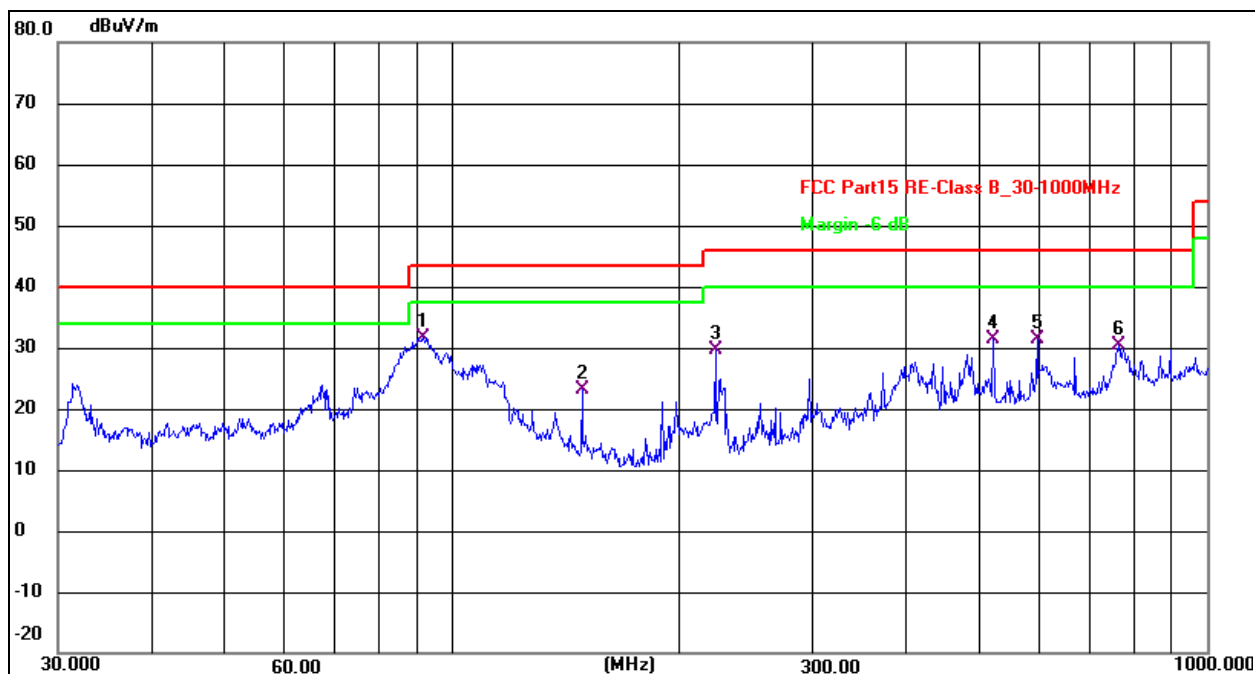


Remark:

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	90.5374	45.94	-19.12	26.82	43.50	-16.68	QP
2	148.4410	38.27	-14.53	23.74	43.50	-19.76	QP
3	222.9502	47.05	-16.01	31.04	46.00	-14.96	QP
4	297.2241	44.97	-13.07	31.90	46.00	-14.10	QP
5	446.4141	42.26	-8.83	33.43	46.00	-12.57	QP
6 *	520.8882	40.23	-5.30	34.93	46.00	-11.07	QP

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kpa	Test Voltage :	DC 3.8V
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.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	91.4949	50.71	-19.05	31.66	43.50	-11.84	QP
2	148.4410	37.60	-14.53	23.07	43.50	-20.43	QP
3	222.9502	45.53	-16.01	29.52	46.00	-16.48	QP
4	520.8882	36.72	-5.30	31.42	46.00	-14.58	QP
5	595.1329	36.24	-4.92	31.32	46.00	-14.68	QP
6	763.3757	32.42	-2.16	30.26	46.00	-15.74	QP

Between 1GHz – 40GHz

Test Mode :	TX(5.1G) - 802.11a
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Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G									
V	4434.110	60.40	5.94	35.40	44.00	57.74	68.2	-10.46	PK
V	4434.110	43.93	5.94	35.40	44.00	41.27	54	-12.73	AV
V	10360.127	63.28	8.46	39.75	44.50	66.99	68.2	-1.21	PK
V	10360.127	43.88	8.46	39.75	44.50	47.59	54	-6.41	AV
V	15540.172	61.54	10.12	38.80	44.10	66.36	74	-7.64	PK
V	15540.172	43.97	10.12	38.80	42.70	50.19	54	-3.81	AV
H	4434.093	63.03	5.94	35.18	44.00	60.15	68.2	-8.05	PK
H	4434.093	43.57	5.94	35.18	44.00	40.69	54	-13.31	AV
H	10360.103	50.64	8.46	38.71	44.50	53.31	68.2	-14.89	PK
H	10360.103	41.00	8.46	38.71	44.50	43.67	54	-10.33	AV
H	15540.106	52.05	10.12	38.38	44.10	56.45	74	-17.55	PK
H	15540.106	40.41	10.12	38.38	44.10	44.81	54	-9.19	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.018	60.68	6.48	36.35	44.05	59.46	74	-14.54	PK
V	4592.018	43.00	6.48	36.35	44.05	41.78	54	-12.22	AV
V	10400.062	61.74	8.47	37.88	44.51	63.58	68.2	-4.62	PK
V	10400.062	43.76	8.47	37.88	44.51	45.60	54	-8.40	AV
V	15600.181	64.78	10.12	38.80	44.10	69.60	74	-4.40	PK
V	15600.181	43.94	10.12	38.80	42.70	50.16	54	-3.84	AV
H	4592.053	60.14	6.48	36.37	44.05	58.94	74	-15.06	PK
H	4592.053	43.09	6.48	36.37	44.05	41.89	54	-12.11	AV
H	10400.079	52.89	8.47	38.64	44.50	55.50	68.2	-12.70	PK
H	10400.079	43.03	8.47	38.64	44.50	45.64	54	-8.36	AV
H	15600.068	51.15	10.12	38.38	44.10	55.55	74	-18.45	PK
H	15600.068	41.13	10.12	38.38	44.10	45.53	54	-8.47	AV
High Channel (5240 MHz)-Above 1G									
V	4739.029	63.31	7.10	37.24	43.50	64.15	74	-9.85	PK
V	4739.029	43.83	7.10	37.24	43.50	44.67	54	-9.33	AV
V	10480.139	60.79	8.46	37.68	44.50	62.43	68.2	-5.77	PK
V	10480.139	43.23	8.46	37.68	44.50	44.87	54	-9.13	AV
V	15720.173	64.93	10.12	38.80	44.10	69.75	74	-4.25	PK
V	15720.173	43.43	10.12	38.80	42.70	49.65	54	-4.35	AV
H	4739.021	64.43	7.10	37.24	43.50	65.27	74	-8.73	PK
H	4739.021	43.95	7.10	37.24	43.50	44.79	54	-9.21	AV
H	10480.136	52.01	8.46	38.57	44.50	54.54	68.2	-13.66	PK
H	10480.136	42.35	8.46	38.57	44.50	44.88	54	-9.12	AV
H	15720.017	51.91	10.12	38.38	44.10	56.31	74	-17.69	PK
H	15720.017	44.96	10.12	38.38	44.10	49.36	54	-4.64	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.

Test Mode :	TX(5.1G) - 802.11n-HT20
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Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G									
V	4434.004	64.92	5.94	35.40	44.00	62.26	68.2	-5.94	PK
V	4434.004	43.65	5.94	35.40	44.00	40.99	54	-13.01	AV
V	10360.047	61.48	8.46	39.75	44.50	65.19	68.2	-3.01	PK
V	10360.047	43.27	8.46	39.75	44.50	46.98	54	-7.02	AV
V	15540.112	60.52	10.12	38.80	44.10	65.34	74	-8.66	PK
V	15540.112	43.35	10.12	38.80	42.70	49.57	54	-4.43	AV
H	4434.040	63.95	5.94	35.18	44.00	61.07	68.2	-7.13	PK
H	4434.040	43.74	5.94	35.18	44.00	40.86	54	-13.14	AV
H	10360.154	50.45	8.46	38.71	44.50	53.12	68.2	-15.08	PK
H	10360.154	42.65	8.46	38.71	44.50	45.32	54	-8.68	AV
H	15540.095	52.54	10.12	38.38	44.10	56.94	74	-17.06	PK
H	15540.095	42.14	10.12	38.38	44.10	46.54	54	-7.46	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.000	64.01	6.48	36.35	44.05	62.79	74	-11.21	PK
V	4592.000	43.44	6.48	36.35	44.05	42.22	54	-11.78	AV
V	10400.007	63.77	8.47	37.88	44.51	65.61	68.2	-2.59	PK
V	10400.007	43.92	8.47	37.88	44.51	45.76	54	-8.24	AV
V	15600.154	62.30	10.12	38.80	44.10	67.12	74	-6.88	PK
V	15600.154	43.99	10.12	38.80	42.70	50.21	54	-3.79	AV
H	4592.183	63.41	6.48	36.37	44.05	62.21	74	-11.79	PK
H	4592.183	43.46	6.48	36.37	44.05	42.26	54	-11.74	AV
H	10400.113	51.48	8.47	38.64	44.50	54.09	68.2	-14.11	PK
H	10400.113	40.64	8.47	38.64	44.50	43.25	54	-10.75	AV
H	15600.178	52.94	10.12	38.38	44.10	57.34	74	-16.66	PK
H	15600.178	41.77	10.12	38.38	44.10	46.17	54	-7.83	AV
High Channel (5240 MHz)-Above 1G									
V	4739.046	61.32	7.10	37.24	43.50	62.16	74	-11.84	PK
V	4739.046	43.06	7.10	37.24	43.50	43.90	54	-10.10	AV
V	10480.083	61.84	8.46	37.68	44.50	63.48	68.2	-4.72	PK
V	10480.083	43.51	8.46	37.68	44.50	45.15	54	-8.85	AV
V	15720.009	64.78	10.12	38.80	44.10	69.60	74	-4.40	PK
V	15720.009	43.46	10.12	38.80	42.70	49.68	54	-4.32	AV
H	4739.155	62.19	7.10	37.24	43.50	63.03	74	-10.97	PK
H	4739.155	43.86	7.10	37.24	43.50	44.70	54	-9.30	AV
H	10480.131	51.50	8.46	38.57	44.50	54.03	68.2	-14.17	PK
H	10480.131	41.47	8.46	38.57	44.50	44.00	54	-10.00	AV
H	15720.028	51.86	10.12	38.38	44.10	56.26	74	-17.74	PK
H	15720.028	42.31	10.12	38.38	44.10	46.71	54	-7.29	AV

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

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

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

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

Test Mode :	TX(5.1G) - 802.11n-HT40
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Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G									
V	4434.068	62.24	5.94	35.40	44.00	59.58	68.2	-8.62	PK
V	4434.068	43.94	5.94	35.40	44.00	41.28	54	-12.72	AV
V	10380.061	63.59	8.46	39.75	44.50	67.30	68.2	-0.90	PK
V	10380.061	43.23	8.46	39.75	44.50	46.94	54	-7.06	AV
V	15570.006	61.63	10.12	38.80	44.10	66.45	74	-7.55	PK
V	15570.006	43.02	10.12	38.80	42.70	49.24	54	-4.76	AV
H	4434.052	63.08	5.94	35.18	44.00	60.20	74	-13.80	PK
H	4434.052	43.57	5.94	35.18	44.00	40.69	54	-13.31	AV
H	10380.194	50.96	8.46	38.71	44.50	53.63	68.2	-14.57	PK
H	10380.194	41.66	8.46	38.71	44.50	44.33	54	-9.67	AV
H	15570.156	54.58	10.12	38.38	44.10	58.98	74	-15.02	PK
H	15570.156	44.99	10.12	38.38	44.10	49.39	54	-4.61	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.162	63.42	6.48	36.35	44.05	62.20	68.2	-6.00	PK
V	4739.162	43.09	6.48	36.35	44.05	41.87	54	-12.13	AV
V	10460.175	62.63	8.47	37.88	44.51	64.47	68.2	-3.73	PK
V	10460.175	43.87	8.47	37.88	44.51	45.71	54	-8.29	AV
V	15690.067	62.70	10.12	38.80	44.10	67.52	74	-6.48	PK
V	15690.067	43.45	10.12	38.80	42.70	49.67	54	-4.33	AV
H	4739.144	61.85	6.48	36.37	44.05	60.65	68.2	-7.55	PK
H	4739.144	43.64	6.48	36.37	44.05	42.44	54	-11.56	AV
H	10460.032	52.29	8.47	38.64	44.50	54.90	68.2	-13.30	PK
H	10460.032	42.31	8.47	38.64	44.50	44.92	54	-9.08	AV
H	15690.148	52.86	10.12	38.38	44.10	57.26	74	-16.74	PK
H	15690.148	42.48	10.12	38.38	44.10	46.88	54	-7.12	AV

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

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

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

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

Test Mode :	TX(5.1G) - 802.11 AC20
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Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G									
V	4434.086	62.19	5.94	35.40	44.00	59.53	68.2	-8.67	PK
V	4434.086	43.79	5.94	35.40	44.00	41.13	54	-12.87	AV
V	10360.080	62.74	8.46	39.75	44.50	66.45	68.2	-1.75	PK
V	10360.080	43.65	8.46	39.75	44.50	47.36	54	-6.64	AV
V	15540.096	60.83	10.12	38.80	44.10	65.65	74	-8.35	PK
V	15540.096	43.68	10.12	38.80	42.70	49.90	54	-4.10	AV
H	4434.061	61.72	5.94	35.18	44.00	58.84	68.2	-9.36	PK
H	4434.061	43.67	5.94	35.18	44.00	40.79	54	-13.21	AV
H	10360.194	51.13	8.46	38.71	44.50	53.80	68.2	-14.40	PK
H	10360.194	41.94	8.46	38.71	44.50	44.61	54	-9.39	AV
H	15540.137	54.70	10.12	38.38	44.10	59.10	74	-14.90	PK
H	15540.137	42.76	10.12	38.38	44.10	47.16	54	-6.84	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.121	63.67	6.48	36.35	44.05	62.45	74	-11.55	PK
V	4592.121	43.09	6.48	36.35	44.05	41.87	54	-12.13	AV
V	10400.021	63.04	8.47	37.88	44.51	64.88	68.2	-3.32	PK
V	10400.021	43.51	8.47	37.88	44.51	45.35	54	-8.65	AV
V	15600.031	64.93	10.12	38.80	44.10	69.75	74	-4.25	PK
V	15600.031	43.79	10.12	38.80	42.70	50.01	54	-3.99	AV
H	4592.061	61.38	6.48	36.37	44.05	60.18	74	-13.82	PK
H	4592.061	43.48	6.48	36.37	44.05	42.28	54	-11.72	AV
H	10400.052	53.07	8.47	38.64	44.50	55.68	68.2	-12.52	PK
H	10400.052	44.13	8.47	38.64	44.50	46.74	54	-7.26	AV
H	15600.037	50.41	10.12	38.38	44.10	54.81	74	-19.19	PK
H	15600.037	42.97	10.12	38.38	44.10	47.37	54	-6.63	AV
High Channel (5240 MHz)-Above 1G									
V	4739.098	62.00	7.10	37.24	43.50	62.84	74	-11.16	PK
V	4739.098	43.58	7.10	37.24	43.50	44.42	54	-9.58	AV
V	10480.197	64.95	8.46	37.68	44.50	66.59	68.2	-1.61	PK
V	10480.197	43.16	8.46	37.68	44.50	44.80	54	-9.20	AV
V	15720.062	64.40	10.12	38.80	44.10	69.22	74	-4.78	PK
V	15720.062	43.51	10.12	38.80	42.70	49.73	54	-4.27	AV
H	4739.186	63.27	7.10	37.24	43.50	64.11	74	-9.89	PK
H	4739.186	43.65	7.10	37.24	43.50	44.49	54	-9.51	AV
H	10480.047	52.05	8.46	38.57	44.50	54.58	68.2	-13.62	PK
H	10480.047	43.27	8.46	38.57	44.50	45.80	54	-8.20	AV
H	15720.055	53.31	10.12	38.38	44.10	57.71	74	-16.29	PK
H	15720.055	40.35	10.12	38.38	44.10	44.75	54	-9.25	AV

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

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

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

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

Test Mode :	TX(5.1G) - 802.11 AC40
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Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G									
V	4434.134	64.87	5.94	35.40	44.00	62.21	68.2	-5.99	PK
V	4434.134	43.70	5.94	35.40	44.00	41.04	54	-12.96	AV
V	10380.012	61.37	8.46	39.75	44.50	65.08	68.2	-3.12	PK
V	10380.012	43.20	8.46	39.75	44.50	46.91	54	-7.09	AV
V	15570.073	60.31	10.12	38.80	44.10	65.13	74	-8.87	PK
V	15570.073	43.24	10.12	38.80	42.70	49.46	54	-4.54	AV
H	4434.083	62.67	5.94	35.18	44.00	59.79	74	-14.21	PK
H	4434.083	43.66	5.94	35.18	44.00	40.78	54	-13.22	AV
H	10380.020	53.71	8.46	38.71	44.50	56.38	68.2	-11.82	PK
H	10380.020	43.61	8.46	38.71	44.50	46.28	54	-7.72	AV
H	15570.030	54.65	10.12	38.38	44.10	59.05	74	-14.95	PK
H	15570.030	44.30	10.12	38.38	44.10	48.70	54	-5.30	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.078	64.01	6.48	36.35	44.05	62.79	68.2	-5.41	PK
V	4739.078	43.03	6.48	36.35	44.05	41.81	54	-12.19	AV
V	10460.048	64.04	8.47	37.88	44.51	65.88	68.2	-2.32	PK
V	10460.048	43.34	8.47	37.88	44.51	45.18	54	-8.82	AV
V	15690.180	63.69	10.12	38.80	44.10	68.51	74	-5.49	PK
V	15690.180	43.92	10.12	38.80	42.70	50.14	54	-3.86	AV
H	4739.114	62.78	6.48	36.37	44.05	61.58	68.2	-6.62	PK
H	4739.114	43.14	6.48	36.37	44.05	41.94	54	-12.06	AV
H	10460.100	54.94	8.47	38.64	44.50	57.55	68.2	-10.65	PK
H	10460.100	40.49	8.47	38.64	44.50	43.10	54	-10.90	AV
H	15690.143	51.51	10.12	38.38	44.10	55.91	74	-18.09	PK
H	15690.143	44.21	10.12	38.38	44.10	48.61	54	-5.39	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 :	TX(5.1G) - 802.11 AC80
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Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5210 MHz)-Above 1G									
V	4434.138	64.21	5.94	35.40	44.00	61.55	68.2	-6.65	PK
V	4434.138	43.57	5.94	35.40	44.00	40.91	54	-13.09	AV
V	10420.162	60.05	8.46	39.75	44.50	63.76	68.2	-4.44	PK
V	10420.162	44.00	8.46	39.75	44.50	47.71	54	-6.29	AV
V	15630.117	61.74	10.12	38.80	44.10	66.56	74	-7.44	PK
V	15630.117	43.81	10.12	38.80	42.70	50.03	54	-3.97	AV
H	4434.025	63.32	5.94	35.18	44.00	60.44	68.2	-7.76	PK
H	4434.025	43.07	5.94	35.18	44.00	40.19	54	-13.81	AV
H	10420.187	52.51	8.46	38.71	44.50	55.18	68.2	-13.02	PK
H	10420.187	44.23	8.46	38.71	44.50	46.90	54	-7.10	AV
H	15630.076	52.22	10.12	38.38	44.10	56.62	74	-17.38	PK
H	15630.076	42.50	10.12	38.38	44.10	46.90	54	-7.10	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.

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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	4679.042	57.79	5.94	35.40	44.00	55.13	74	-18.87	PK
V	4679.042	43.76	5.94	35.40	44.00	41.10	54	-12.90	AV
V	11490.172	54.25	8.46	39.75	44.50	57.96	68.2	-10.24	PK
V	11490.172	43.70	8.46	39.75	44.50	47.41	54	-6.59	AV
V	17235.174	59.30	10.12	38.80	44.10	64.12	68.2	-4.08	PK
V	17235.174	43.63	10.12	38.80	42.70	49.85	54	-4.15	AV
H	4679.105	55.34	5.94	35.18	44.00	52.46	74	-21.54	PK
H	4679.105	43.64	5.94	35.18	44.00	40.76	54	-13.24	AV
H	11490.158	52.37	8.46	38.71	44.50	55.04	68.2	-13.16	PK
H	11490.158	41.33	8.46	38.71	44.50	44.00	54	-10.00	AV
H	17235.051	51.83	10.12	38.38	44.10	56.23	68.2	-11.97	PK
H	17235.051	43.00	10.12	38.38	44.10	47.40	54	-6.60	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.035	55.68	6.48	36.35	44.05	54.46	74	-19.54	PK
V	4592.035	43.65	6.48	36.35	44.05	42.43	54	-11.57	AV
V	11570.094	57.73	8.47	37.88	44.51	59.57	68.2	-8.63	PK
V	11570.094	43.12	8.47	37.88	44.51	44.96	54	-9.04	AV
V	17355.169	60.71	10.12	38.80	44.10	65.53	68.2	-2.67	PK
V	17355.169	39.26	10.12	38.80	42.70	45.48	54	-8.52	AV
H	4592.177	56.01	6.48	36.37	44.05	54.81	74	-19.19	PK
H	4592.177	43.56	6.48	36.37	44.05	42.36	54	-11.64	AV
H	11570.065	52.99	8.47	38.64	44.50	55.60	68.2	-12.60	PK
H	11570.065	42.56	8.47	38.64	44.50	45.17	54	-8.83	AV
H	17355.032	50.29	10.12	38.38	44.10	54.69	68.2	-13.51	PK
H	17355.032	41.52	10.12	38.38	44.10	45.92	54	-8.08	AV
High Channel (5825 MHz)-Above 1G									
V	6039.122	58.47	7.10	37.24	43.50	59.31	68.2	-8.89	PK
V	6039.122	43.05	7.10	37.24	43.50	43.89	54	-10.11	AV
V	11650.157	60.63	8.46	37.68	44.50	62.27	74	-11.73	PK
V	11650.157	43.93	8.46	37.68	44.50	45.57	54	-8.43	AV
V	17475.115	53.23	10.12	38.80	44.10	58.05	68.2	-10.15	PK
V	17475.115	43.94	10.12	38.80	42.70	50.16	54	-3.84	AV
H	6039.038	57.09	7.10	37.24	43.50	57.93	68.2	-10.27	PK
H	6039.038	43.12	7.10	37.24	43.50	43.96	54	-10.04	AV
H	11650.100	52.09	8.46	38.57	44.50	54.62	74	-19.38	PK
H	11650.100	44.73	8.46	38.57	44.50	47.26	54	-6.74	AV
H	17475.155	50.28	10.12	38.38	44.10	54.68	68.2	-13.52	PK
H	17475.155	44.60	10.12	38.38	44.10	49.00	54	-5.00	AV

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

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

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

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

Test Mode :	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	4679.036	59.83	5.94	35.40	44.00	57.17	74	-16.83	PK
V	4679.036	43.23	5.94	35.40	44.00	40.57	54	-13.43	AV
V	11490.073	55.03	8.46	39.75	44.50	58.74	68.2	-9.46	PK
V	11490.073	43.14	8.46	39.75	44.50	46.85	54	-7.15	AV
V	17235.043	58.33	10.12	38.80	44.10	63.15	68.2	-5.05	PK
V	17235.043	43.65	10.12	38.80	42.70	49.87	54	-4.13	AV
H	4679.061	57.56	5.94	35.18	44.00	54.68	74	-19.32	PK
H	4679.061	43.40	5.94	35.18	44.00	40.52	54	-13.48	AV
H	11490.101	48.73	8.46	38.71	44.50	51.40	68.2	-16.80	PK
H	11490.101	41.91	8.46	38.71	44.50	44.58	54	-9.42	AV
H	17235.074	53.65	10.12	38.38	44.10	58.05	68.2	-10.15	PK
H	17235.074	44.65	10.12	38.38	44.10	49.05	54	-4.95	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.007	61.97	6.48	36.35	44.05	60.75	74	-13.25	PK
V	4592.007	43.21	6.48	36.35	44.05	41.99	54	-12.01	AV
V	11570.014	56.38	8.47	37.88	44.51	58.22	68.2	-9.98	PK
V	11570.014	43.12	8.47	37.88	44.51	44.96	54	-9.04	AV
V	17355.057	60.49	10.12	38.80	44.10	65.31	68.2	-2.89	PK
V	17355.057	43.83	10.12	38.80	42.70	50.05	54	-3.95	AV
H	4592.009	57.65	6.48	36.37	44.05	56.45	74	-17.55	PK
H	4592.009	43.62	6.48	36.37	44.05	42.42	54	-11.58	AV
H	11570.175	53.98	8.47	38.64	44.50	56.59	68.2	-11.61	PK
H	11570.175	40.64	8.47	38.64	44.50	43.25	54	-10.75	AV
H	17355.117	54.29	10.12	38.38	44.10	58.69	68.2	-9.51	PK
H	17355.117	43.20	10.12	38.38	44.10	47.60	54	-6.40	AV
High Channel (5825 MHz)-Above 1G									
V	6039.114	56.76	7.10	37.24	43.50	57.60	68.2	-10.60	PK
V	6039.114	43.24	7.10	37.24	43.50	44.08	54	-9.92	AV
V	11650.003	60.09	8.46	37.68	44.50	61.73	74	-12.27	PK
V	11650.003	43.44	8.46	37.68	44.50	45.08	54	-8.92	AV
V	17475.046	55.33	10.12	38.80	44.10	60.15	68.2	-8.05	PK
V	17475.046	43.24	10.12	38.80	42.70	49.46	54	-4.54	AV
H	6039.178	56.71	7.10	37.24	43.50	57.55	68.2	-10.65	PK
H	6039.178	43.94	7.10	37.24	43.50	44.78	54	-9.22	AV
H	11650.092	53.17	8.46	38.57	44.50	55.70	74	-18.30	PK
H	11650.092	40.32	8.46	38.57	44.50	42.85	54	-11.15	AV
H	17475.148	52.09	10.12	38.38	44.10	56.49	68.2	-11.71	PK
H	17475.148	42.82	10.12	38.38	44.10	47.22	54	-6.78	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 :	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	4679.111	56.26	5.94	35.40	44.00	53.60	74	-20.40	PK
V	4679.111	43.41	5.94	35.40	44.00	40.75	54	-13.25	AV
V	11510.110	55.90	8.46	39.75	44.50	59.61	74	-14.39	PK
V	11510.110	43.86	8.46	39.75	44.50	47.57	54	-6.43	AV
V	17265.114	58.41	10.12	38.80	44.10	63.23	68.2	-4.97	PK
V	17265.114	2.00	10.12	38.80	42.70	8.22	54	-45.78	AV
H	4679.056	59.85	5.94	35.18	44.00	56.97	74	-17.03	PK
H	4679.056	43.86	5.94	35.18	44.00	40.98	54	-13.02	AV
H	11510.028	51.49	8.46	38.71	44.50	54.16	74	-19.84	PK
H	11510.028	43.70	8.46	38.71	44.50	46.37	54	-7.63	AV
H	17265.054	51.58	10.12	38.38	44.10	55.98	68.2	-12.22	PK
H	17265.054	42.18	10.12	38.38	44.10	46.58	54	-7.42	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.084	56.80	6.48	36.35	44.05	55.58	68.2	-12.62	PK
V	6039.084	43.54	6.48	36.35	44.05	42.32	54	-11.68	AV
V	11590.181	58.36	8.47	37.88	44.51	60.20	74	-13.80	PK
V	11590.181	43.91	8.47	37.88	44.51	45.75	54	-8.25	AV
V	17385.078	55.23	10.12	38.80	44.10	60.05	68.2	-8.15	PK
V	17385.078	41.36	10.12	38.80	42.70	47.58	54	-6.42	AV
H	6039.059	57.97	6.48	36.37	44.05	56.77	68.2	-11.43	PK
H	6039.059	43.18	6.48	36.37	44.05	41.98	54	-12.02	AV
H	11590.106	53.57	8.47	38.64	44.50	56.18	74	-17.82	PK
H	11590.106	41.70	8.47	38.64	44.50	44.31	54	-9.69	AV
H	17385.079	54.31	10.12	38.38	44.10	58.71	68.2	-9.49	PK
H	17385.079	42.99	10.12	38.38	44.10	47.39	54	-6.61	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 :	TX (5.8G) --802.11AC20
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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	4679.081	56.99	5.94	35.40	44.00	54.33	74	-19.67	PK
V	4679.081	43.96	5.94	35.40	44.00	41.30	54	-12.70	AV
V	11490.110	54.75	8.46	39.75	44.50	58.46	68.2	-9.74	PK
V	11490.110	43.93	8.46	39.75	44.50	47.64	54	-6.36	AV
V	17235.081	59.25	10.12	38.80	44.10	64.07	68.2	-4.13	PK
V	17235.081	43.70	10.12	38.80	42.70	49.92	54	-4.08	AV
H	4679.140	59.63	5.94	35.18	44.00	56.75	74	-17.25	PK
H	4679.140	43.18	5.94	35.18	44.00	40.30	54	-13.70	AV
H	11490.055	50.66	8.46	38.71	44.50	53.33	68.2	-14.87	PK
H	11490.055	42.94	8.46	38.71	44.50	45.61	54	-8.39	AV
H	17235.037	54.56	10.12	38.38	44.10	58.96	68.2	-9.24	PK
H	17235.037	41.54	10.12	38.38	44.10	45.94	54	-8.06	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.112	60.59	6.48	36.35	44.05	59.37	74	-14.63	PK
V	4592.112	43.94	6.48	36.35	44.05	42.72	54	-11.28	AV
V	11570.132	58.49	8.47	37.88	44.51	60.33	68.2	-7.87	PK
V	11570.132	43.10	8.47	37.88	44.51	44.94	54	-9.06	AV
V	17355.126	59.23	10.12	38.80	44.10	64.05	68.2	-4.15	PK
V	17355.126	43.21	10.12	38.80	42.70	49.43	54	-4.57	AV
H	4592.174	60.49	6.48	36.37	44.05	59.29	74	-14.71	PK
H	4592.174	43.88	6.48	36.37	44.05	42.68	54	-11.32	AV
H	11570.039	51.54	8.47	38.64	44.50	54.15	68.2	-14.05	PK
H	11570.039	42.15	8.47	38.64	44.50	44.76	54	-9.24	AV
H	17355.074	54.43	10.12	38.38	44.10	58.83	68.2	-9.37	PK
H	17355.074	40.86	10.12	38.38	44.10	45.26	54	-8.74	AV
High Channel (5825 MHz)-Above 1G									
V	6039.022	57.41	7.10	37.24	43.50	58.25	68.2	-9.95	PK
V	6039.022	43.13	7.10	37.24	43.50	43.97	54	-10.03	AV
V	11650.105	60.65	8.46	37.68	44.50	62.29	74	-11.71	PK
V	11650.105	43.79	8.46	37.68	44.50	45.43	54	-8.57	AV
V	17475.027	55.36	10.12	38.80	44.10	60.18	68.2	-8.02	PK
V	17475.027	43.97	10.12	38.80	42.70	50.19	54	-3.81	AV
H	6039.126	57.51	7.10	37.24	43.50	58.35	68.2	-9.85	PK
H	6039.126	43.94	7.10	37.24	43.50	44.78	54	-9.22	AV
H	11650.044	54.65	8.46	38.57	44.50	57.18	74	-16.82	PK
H	11650.044	41.79	8.46	38.57	44.50	44.32	54	-9.68	AV
H	17475.012	54.63	10.12	38.38	44.10	59.03	68.2	-9.17	PK
H	17475.012	44.70	10.12	38.38	44.10	49.10	54	-4.90	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.

Test Mode :	TX (5.8G) -- 802.11AC40
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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	4679.046	58.78	5.94	35.40	44.00	56.12	74	-17.88	PK
V	4679.046	43.68	5.94	35.40	44.00	41.02	54	-12.98	AV
V	11510.029	55.67	8.46	39.75	44.50	59.38	74	-14.62	PK
V	11510.029	43.59	8.46	39.75	44.50	47.30	54	-6.70	AV
V	17265.157	55.18	10.12	38.80	44.10	60.00	68.2	-8.20	PK
V	17265.157	2.00	10.12	38.80	42.70	8.22	54	-45.78	AV
H	4679.126	60.29	5.94	35.18	44.00	57.41	74	-16.59	PK
H	4679.126	43.83	5.94	35.18	44.00	40.95	54	-13.05	AV
H	11510.054	50.95	8.46	38.71	44.50	53.62	74	-20.38	PK
H	11510.054	44.00	8.46	38.71	44.50	46.67	54	-7.33	AV
H	17265.145	51.36	10.12	38.38	44.10	55.76	68.2	-12.44	PK
H	17265.145	41.09	10.12	38.38	44.10	45.49	54	-8.51	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.035	59.34	6.48	36.35	44.05	58.12	68.2	-10.08	PK
V	6039.035	43.79	6.48	36.35	44.05	42.57	54	-11.43	AV
V	11590.033	56.91	8.47	37.88	44.51	58.75	74	-15.25	PK
V	11590.033	43.37	8.47	37.88	44.51	45.21	54	-8.79	AV
V	17385.023	55.42	10.12	38.80	44.10	60.24	68.2	-7.96	PK
V	17385.023	41.50	10.12	38.80	42.70	47.72	54	-6.28	AV
H	6039.195	59.50	6.48	36.37	44.05	58.30	68.2	-9.90	PK
H	6039.195	43.39	6.48	36.37	44.05	42.19	54	-11.81	AV
H	11590.200	53.74	8.47	38.64	44.50	56.35	74	-17.65	PK
H	11590.200	44.01	8.47	38.64	44.50	46.62	54	-7.38	AV
H	17385.030	53.40	10.12	38.38	44.10	57.80	68.2	-10.40	PK
H	17385.030	40.85	10.12	38.38	44.10	45.25	54	-8.75	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 :	TX (5.8G) -- 802.11AC80
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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	4679.159	59.50	5.94	35.40	44.00	56.84	74	-17.16	PK
V	4679.159	43.13	5.94	35.40	44.00	40.47	54	-13.53	AV
V	11550.058	58.28	8.46	39.75	44.50	61.99	74	-12.01	PK
V	11550.058	43.24	8.46	39.75	44.50	46.95	54	-7.05	AV
V	17325.119	60.82	10.12	38.80	44.10	65.64	68.2	-2.56	PK
V	17325.119	41.86	10.12	38.80	42.70	48.08	54	-5.92	AV
H	4679.160	57.42	5.94	35.18	44.00	54.54	74	-19.46	PK
H	4679.160	43.62	5.94	35.18	44.00	40.74	54	-13.26	AV
H	11550.097	53.67	8.46	38.71	44.50	56.34	74	-17.66	PK
H	11550.097	42.11	8.46	38.71	44.50	44.78	54	-9.22	AV
H	17325.178	52.05	10.12	38.38	44.10	56.45	68.2	-11.75	PK
H	17325.178	43.74	10.12	38.38	44.10	48.14	54	-5.86	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.

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 colocated 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.

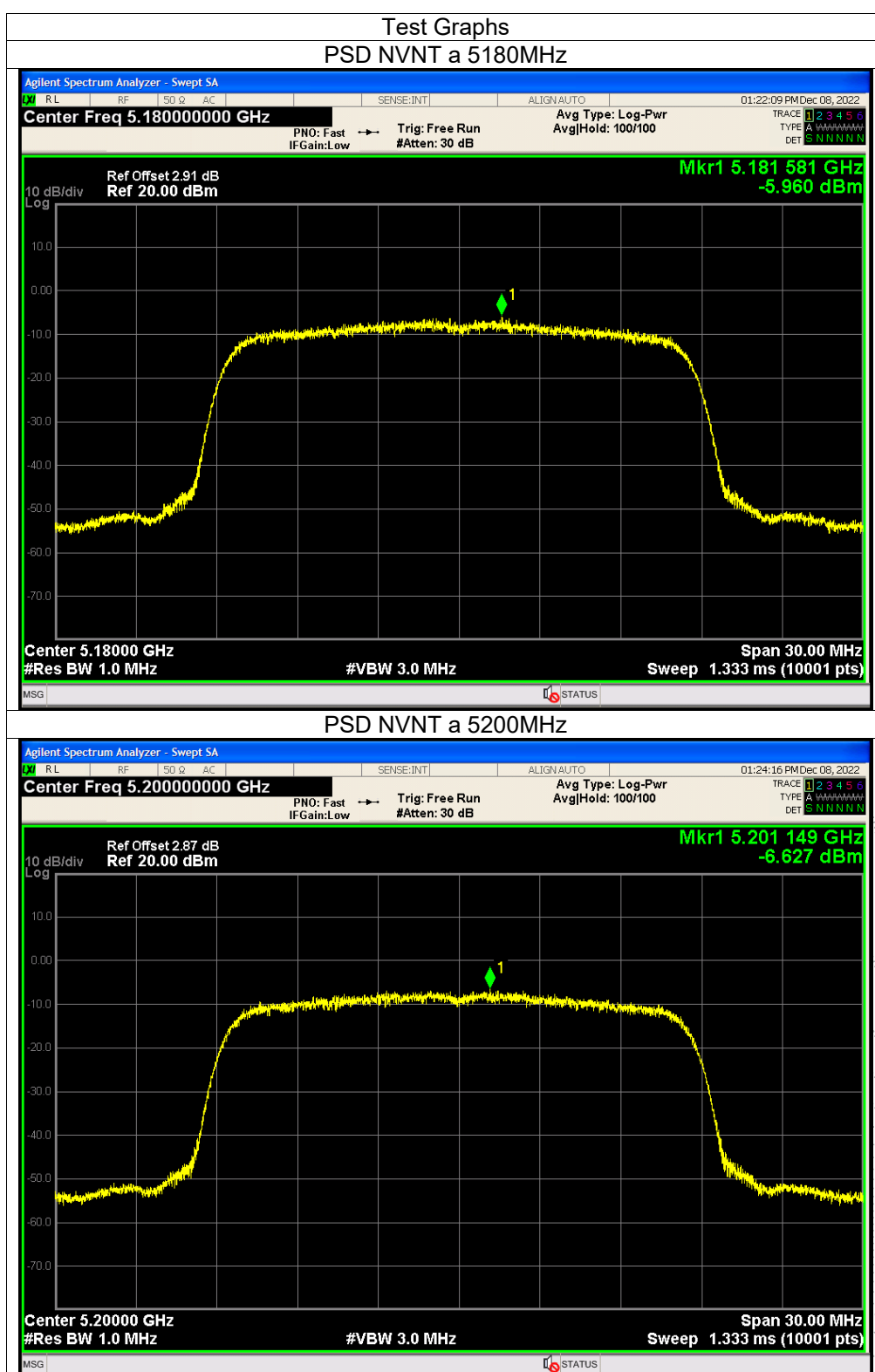
8.4 EUT Operating Conditions

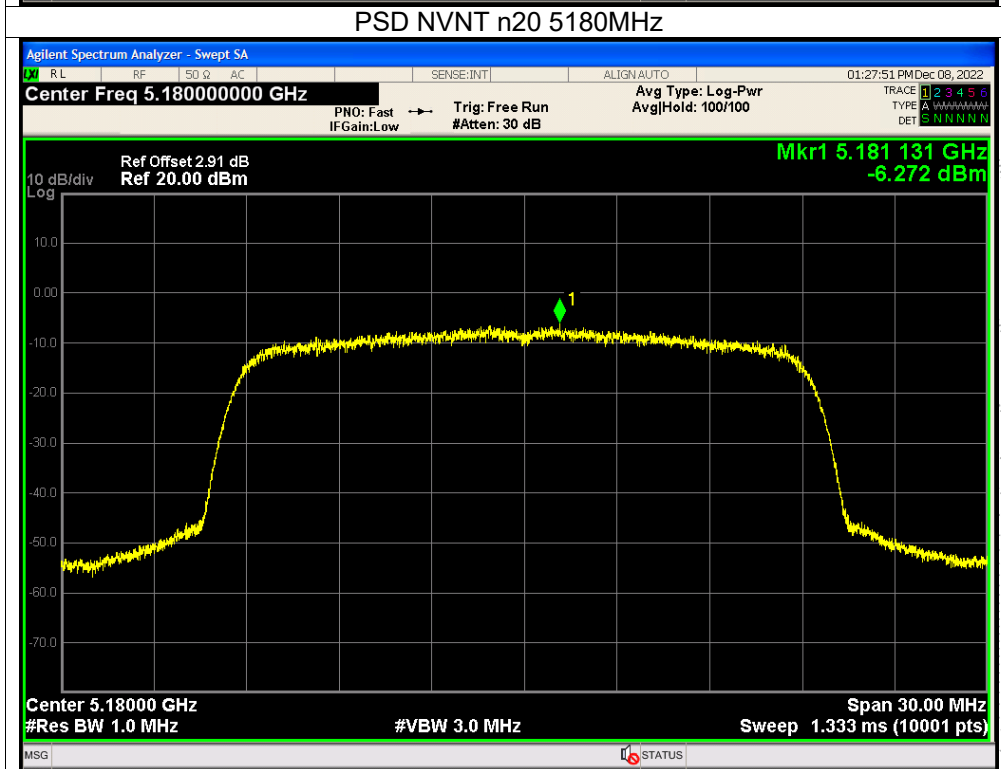
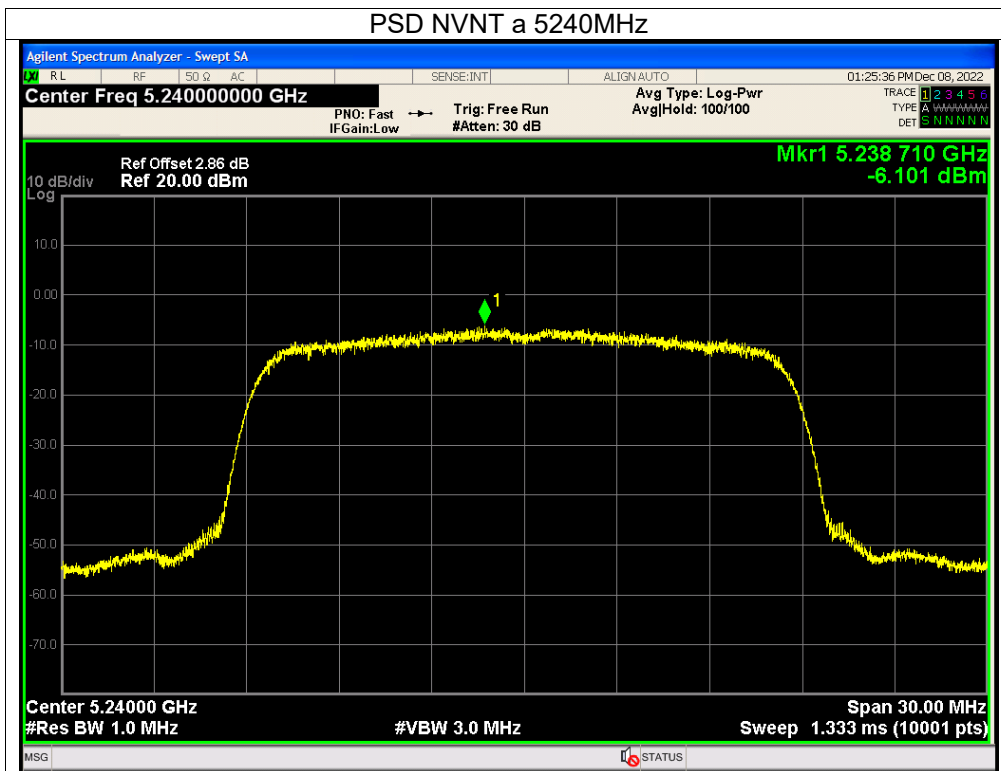
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

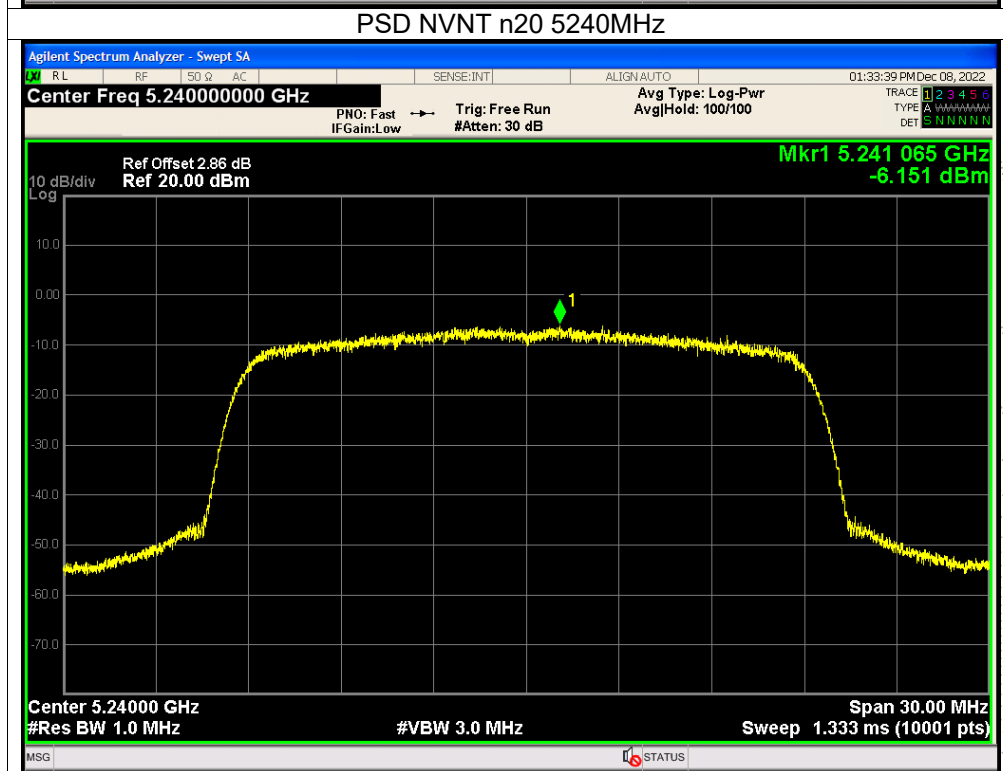
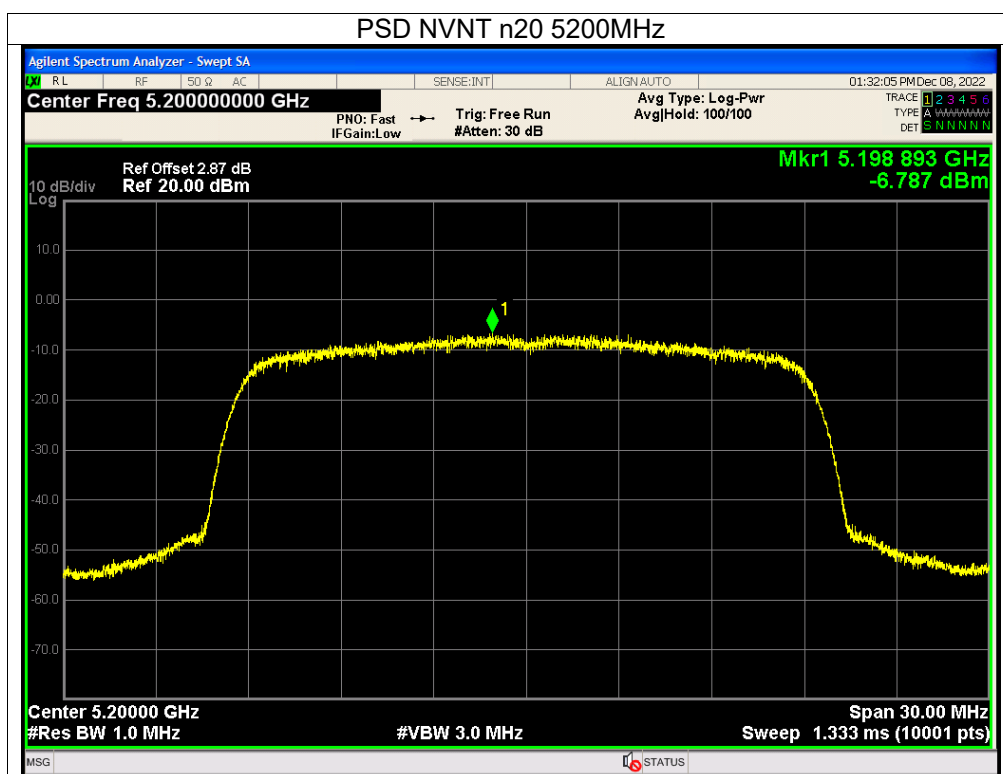
8.5 Test Result

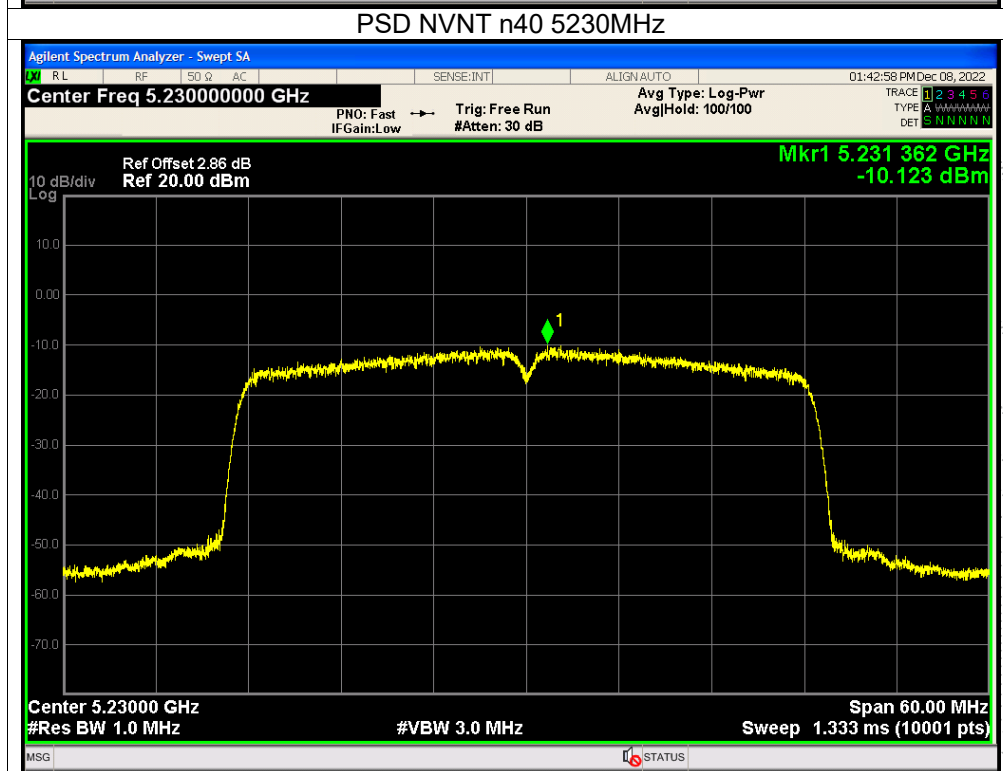
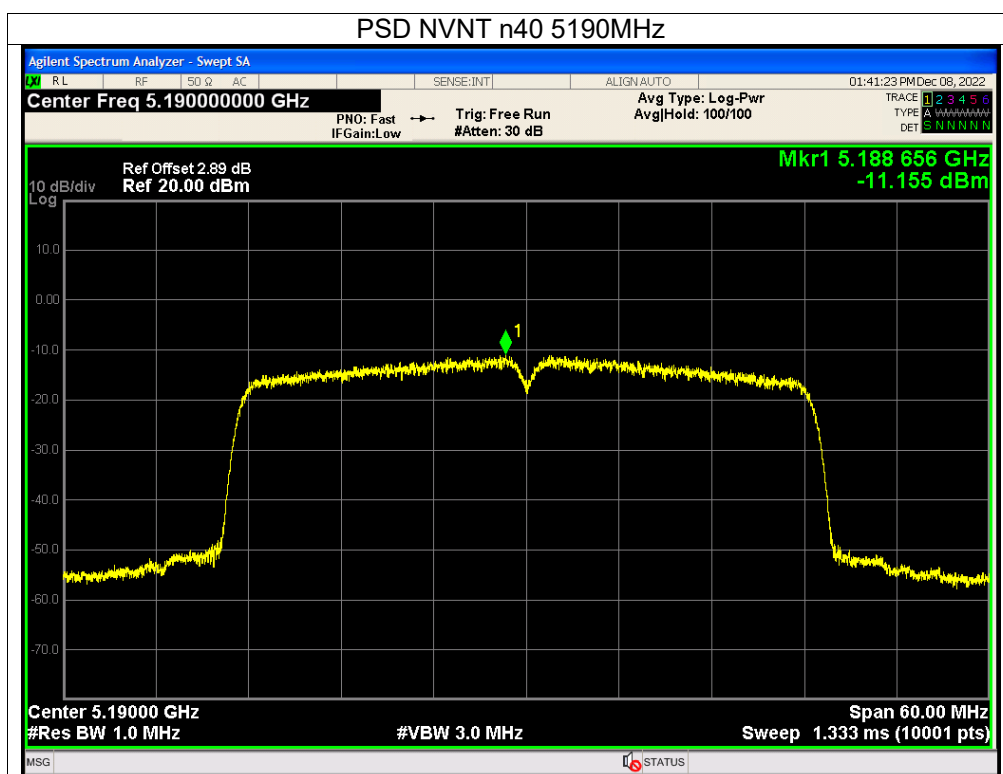
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 3.8V
Test Mode :	TX Frequency U-NII-1 (5180-5240MHz)		

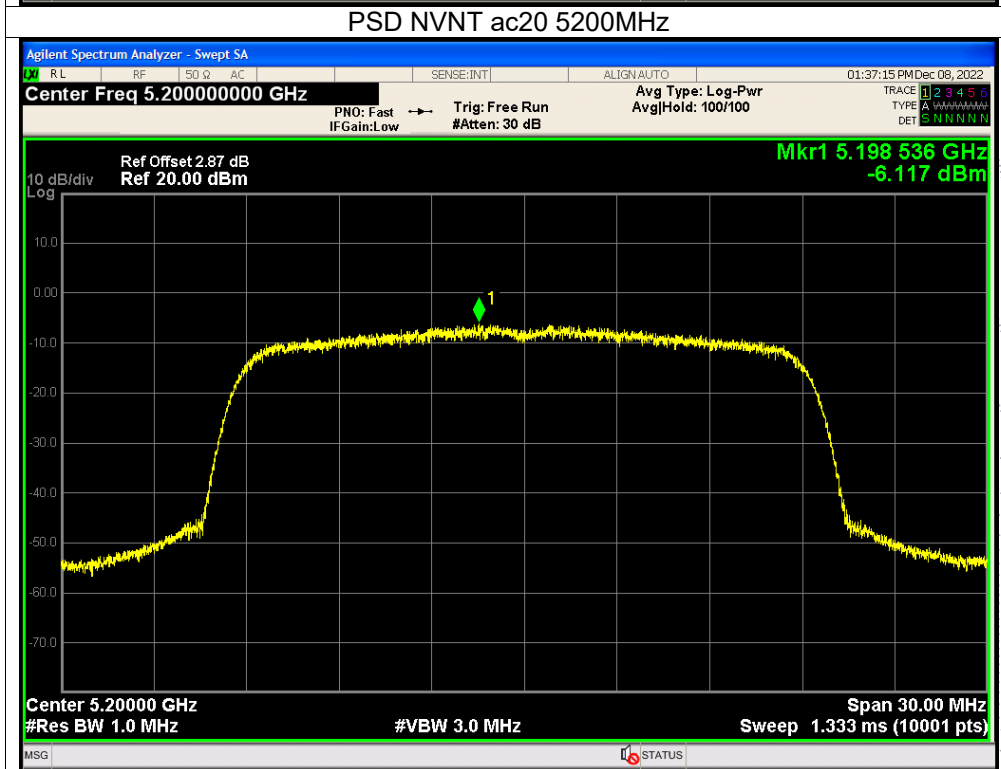
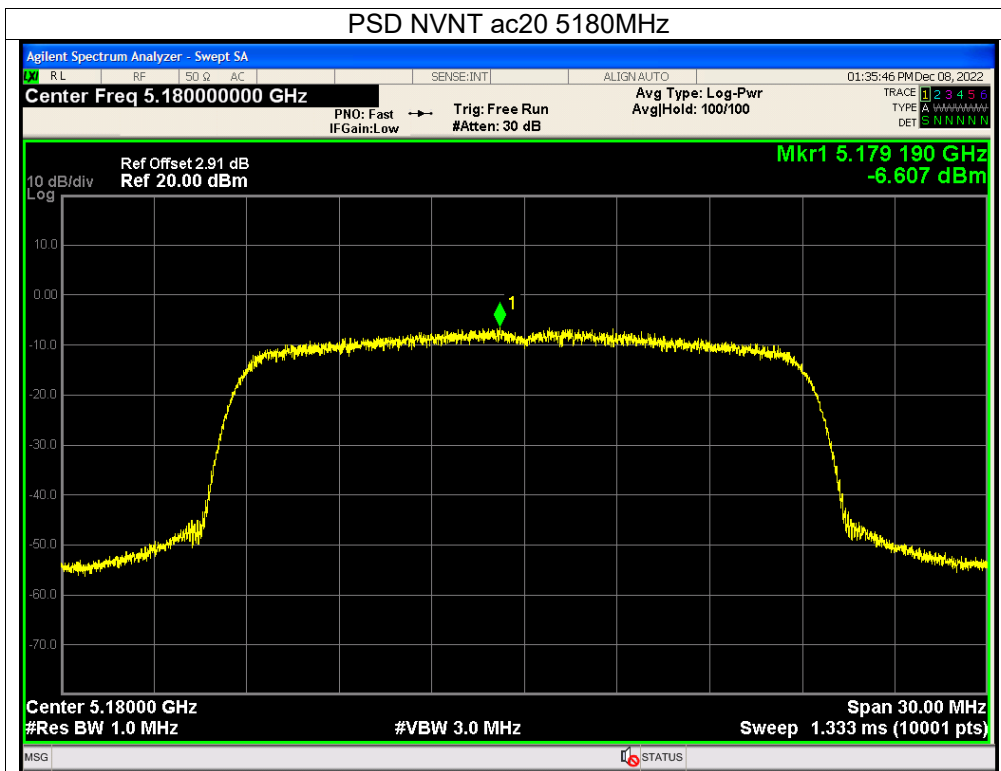
Test Mode	Frequency	Measured Power Density (dBm/MHz)	Limit (dBm/MHz)	Result
802.11 a	5180 MHz	-5.96	11	PASS
	5200 MHz	-6.63	11	PASS
	5240 MHz	-6.10	11	PASS
802.11 n20	5180 MHz	-6.27	11	PASS
	5200 MHz	-6.79	11	PASS
	5240 MHz	-6.15	11	PASS
802.11 n40	5190 MHz	-11.16	11	PASS
	5230 MHz	-10.12	11	PASS
802.11 AC20	5180 MHz	-6.61	11	PASS
	5200 MHz	-6.12	11	PASS
	5240 MHz	-5.94	11	PASS
802.11 AC40	5190 MHz	-10.19	11	PASS
	5230 MHz	-9.81	11	PASS
802.11 AC80	5210 MHz	-13.13	11	PASS

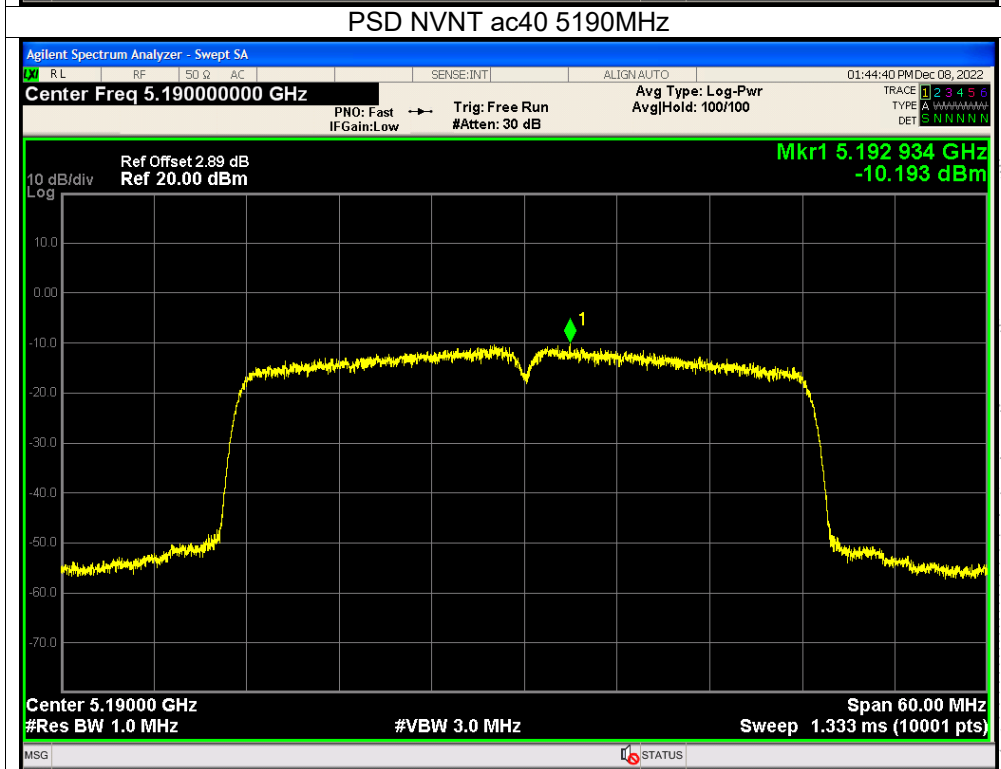
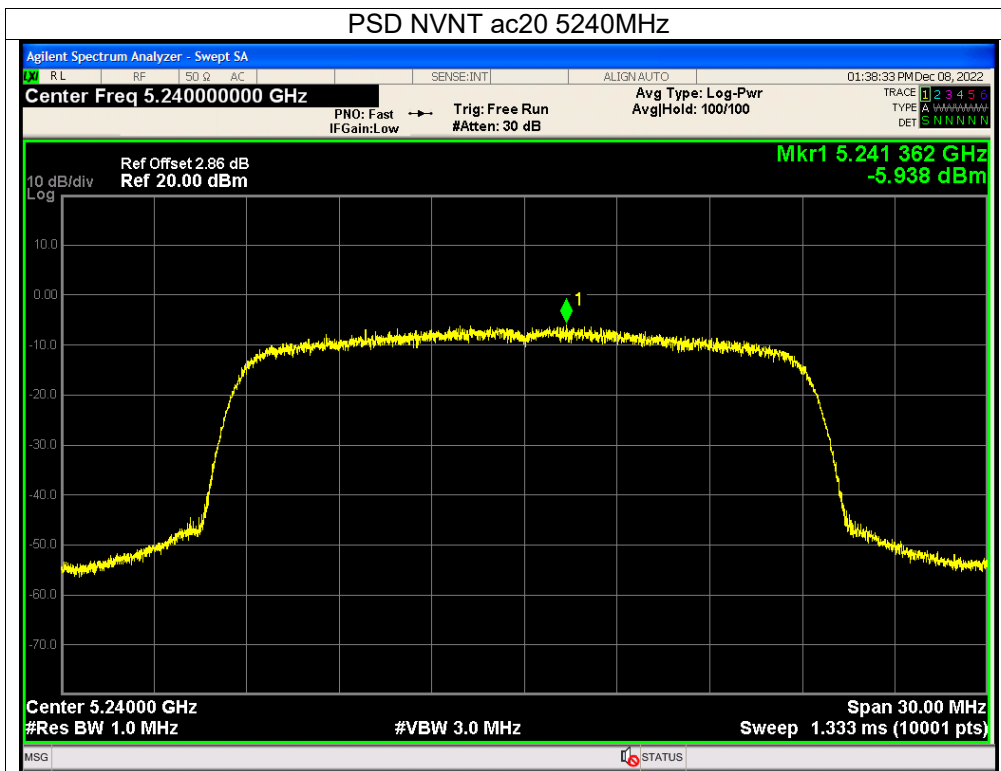


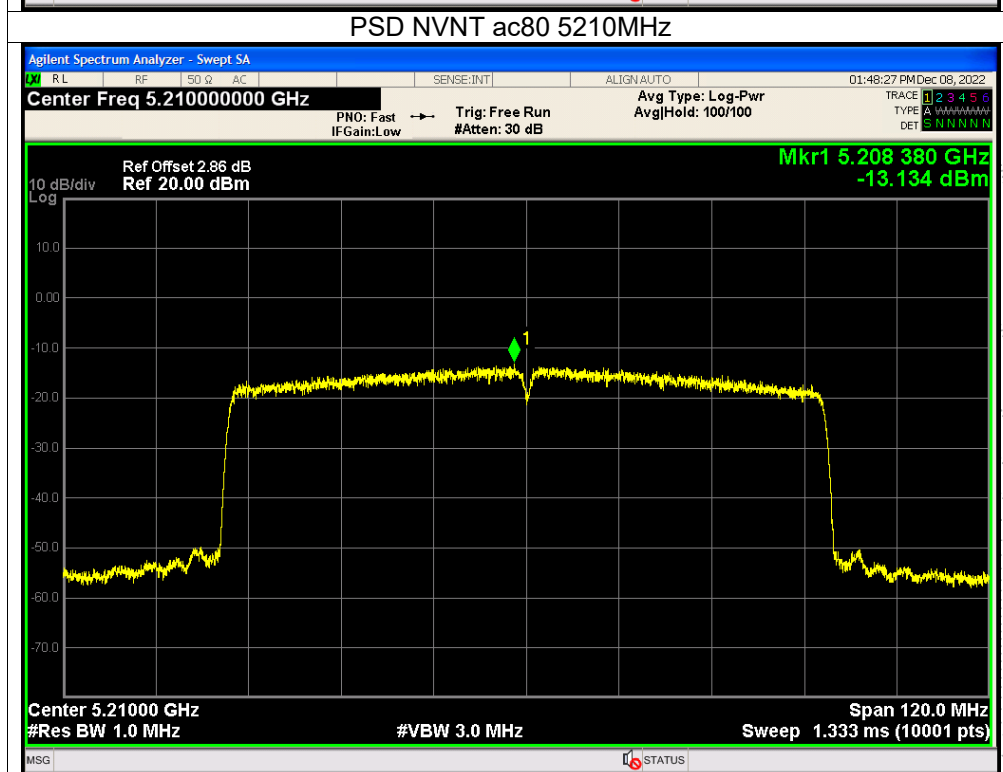
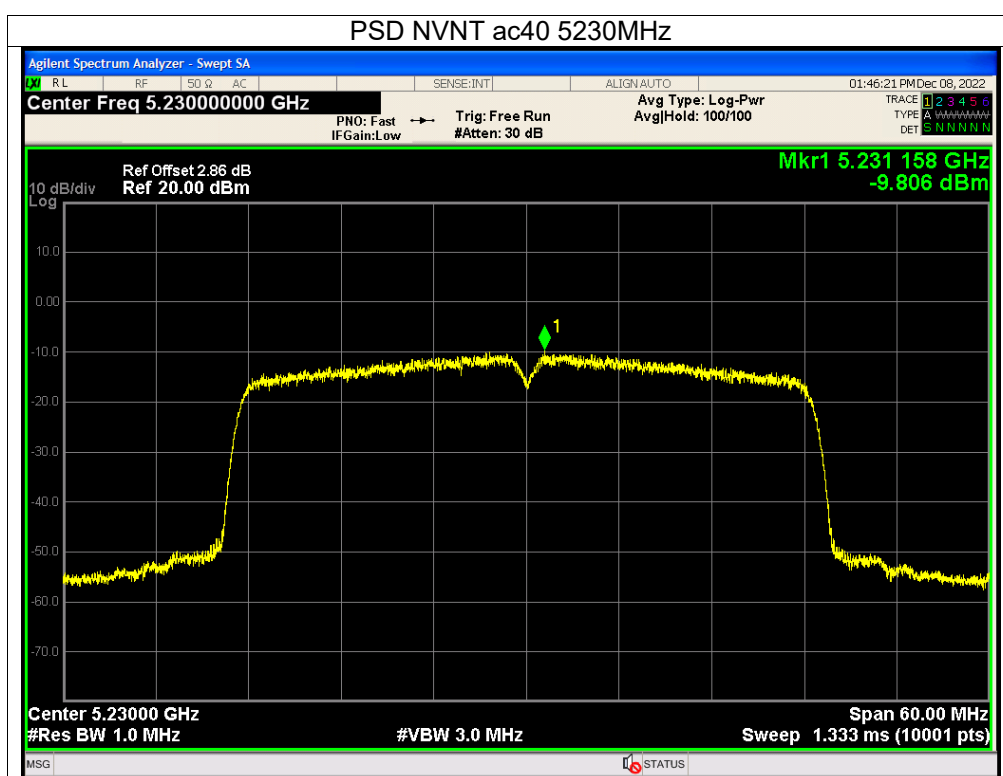












Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 3.8V
Test Mode :	TX Frequency U-NII-3 (5745-5825MHz)		

Mode	Frequency	Measured Power Density (dBm/500kHz)	Limit (dBm/500kHz)	Result
802.11 a	5745 MHz	-9.25	30	PASS
	5785 MHz	-10.22	30	PASS
	5825 MHz	-10.75	30	PASS
802.11 n20	5745 MHz	-10.64	30	PASS
	5785 MHz	-10.19	30	PASS
	5825 MHz	-10.21	30	PASS
802.11 n40	5755 MHz	-13.99	30	PASS
	5795 MHz	-13.35	30	PASS
802.11 AC20	5745 MHz	-9.58	30	PASS
	5785 MHz	-9.97	30	PASS
	5825 MHz	-10.22	30	PASS
802.11 AC40	5755 MHz	-13.42	30	PASS
	5795 MHz	-13.41	30	PASS
802.11 AC80	5775 MHz	-17.1	30	PASS

