

TEST REPORT

Report No.: BCTC2309548311-4E

Applicant: Shenzhen Efercro Electronic Technology Co., Ltd.

Product Name: 10.1 "tablet

Model/Type
reference: OC106

Tested Date: 2023-09-19 to 2023-10-18

Issued Date: 2023-10-18

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AW9M-OC106

Product Name: 10.1 "tablet

Trademark: N/A

Model/Type Ref.: OC106,OC101,C9,C10,C141,C107,C108,A6,AK105

Prepared For: Shenzhen Efercro Electronic Technology Co., Ltd

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Manufacturer: Shenzhen Efercro Electronic Technology 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: 2023-09-19

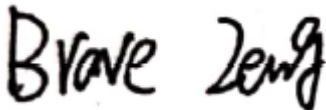
Sample tested Date: 2023-09-19 to 2023-10-18

Report No.: BCTC2309548311-4E

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

Test Results: PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



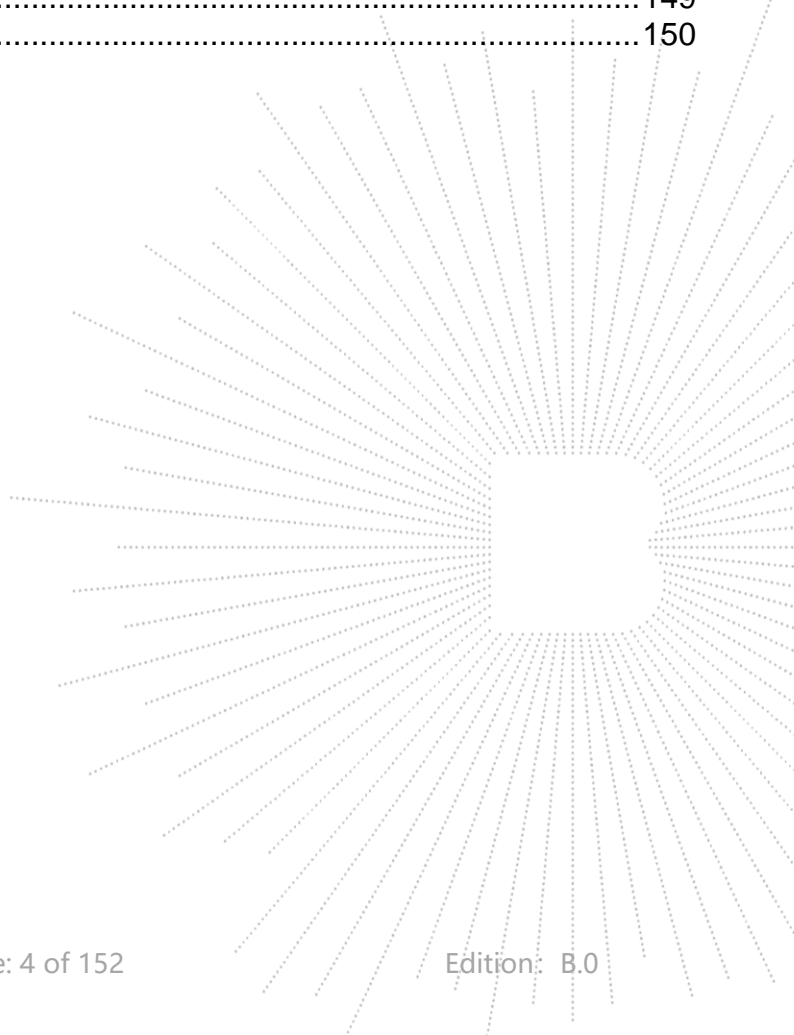
Zero Zhou/Reviewer

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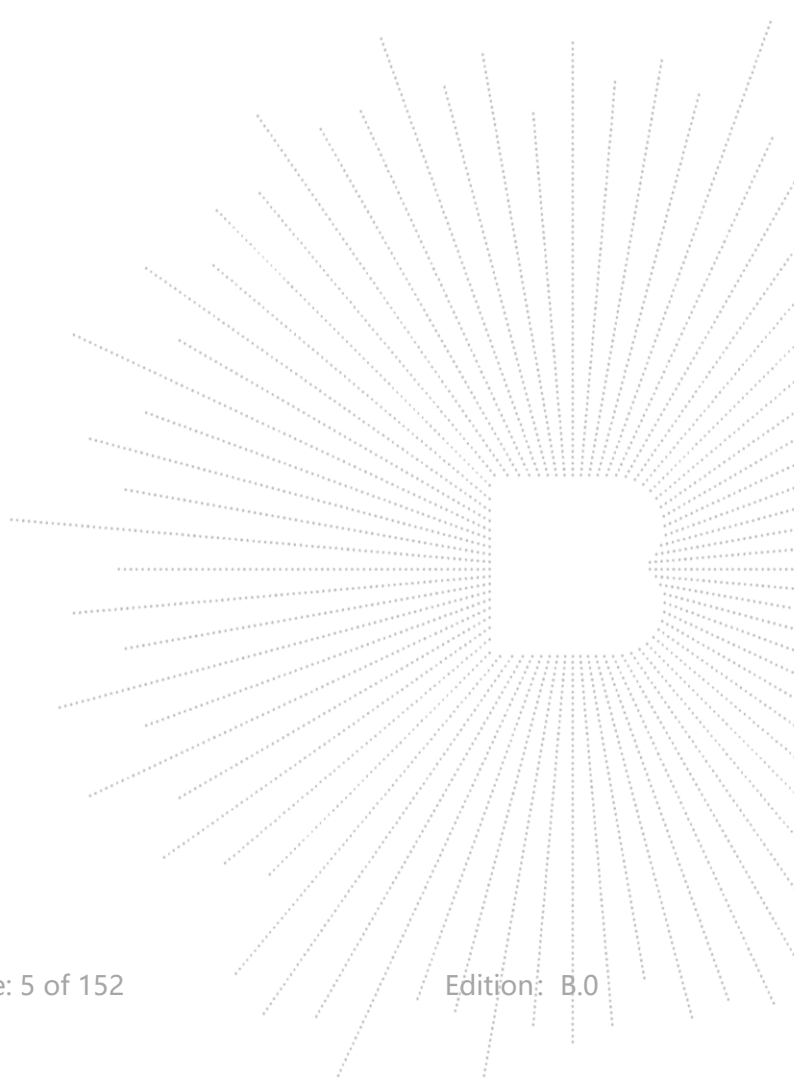
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1. Version

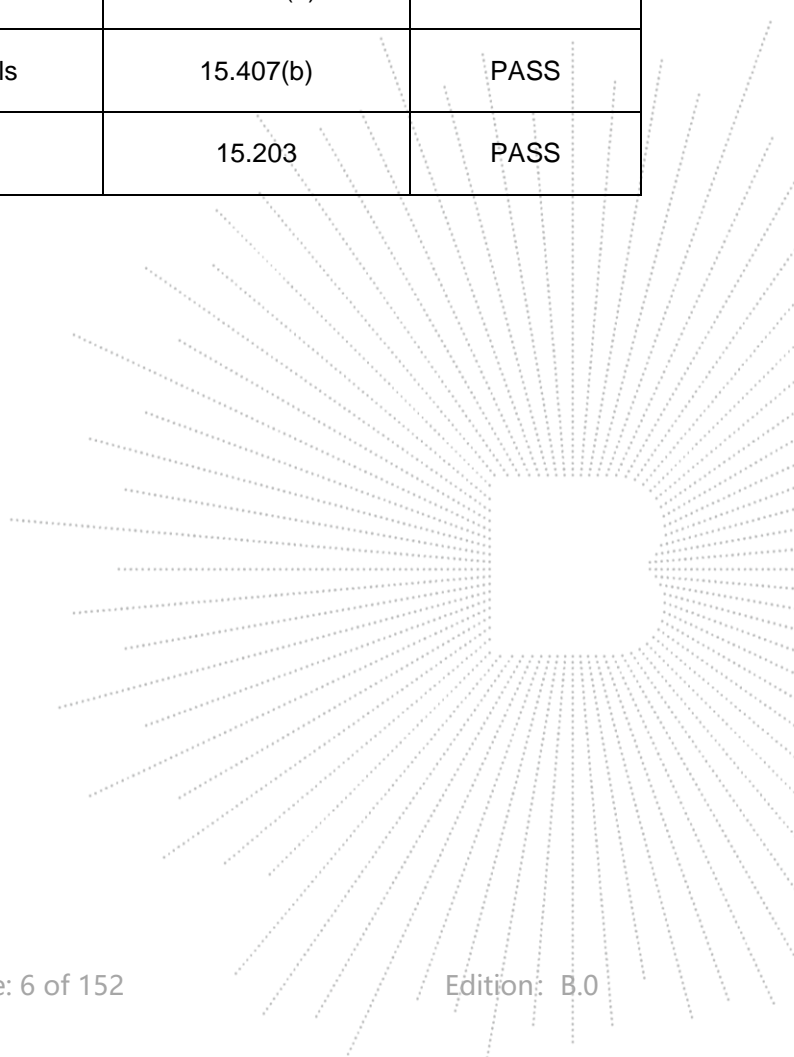
Report No.	Issue Date	Description	Approved
BCTC2309548311-4E	2023-10-18	Original	Valid



2. Test Summary

The Product has been tested according to the following specifications:

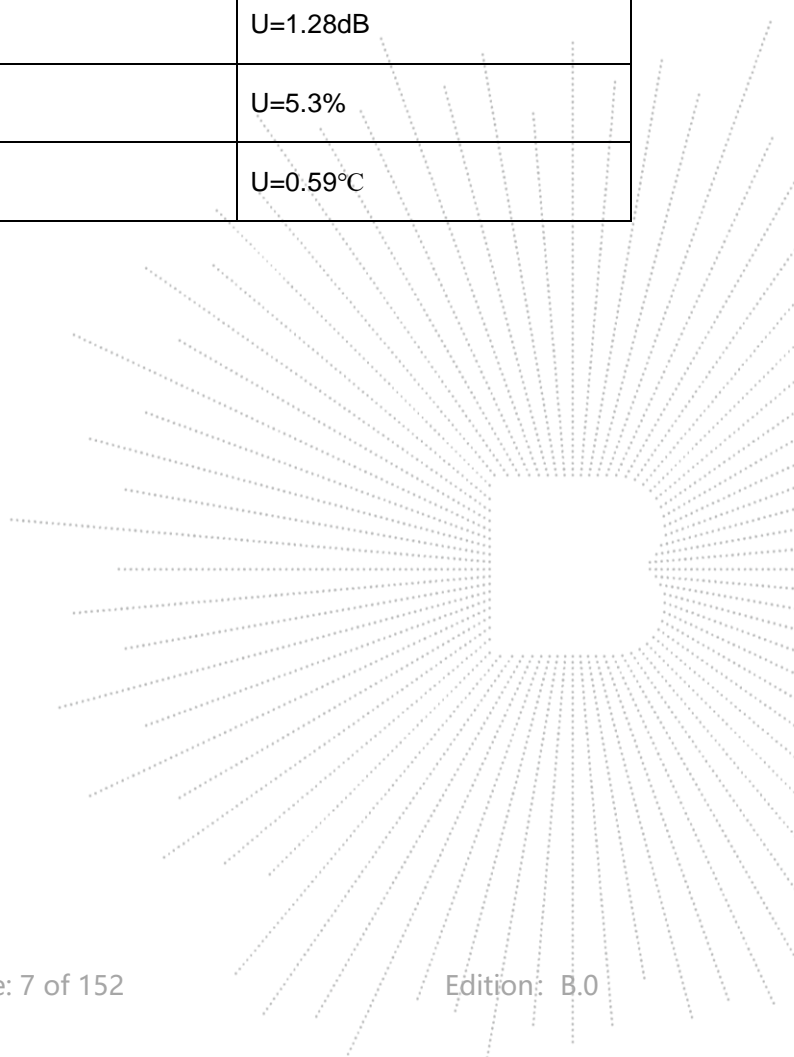
No.	Test Parameter	Clause No.	Results
1	Spurious Radiated Emissions	15.209(a), 15.407 (b)	PASS
2	Conducted Emission	15.207	PASS
3	26 dB and 99% Emission Bandwidth	15.407 (a)	PASS
4	Minimum 6 dB bandwidth	15.407(e)	PASS
5	Maximum Conducted Output Power	15.407 (a)	PASS
6	Band Edge	15.407(b)	PASS
7	Power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



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

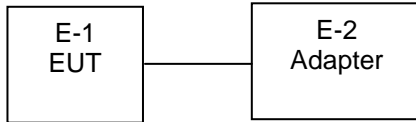
4.1 Product Information

Model/Type Ref.:	OC106,OC101,C9,C10,C141,C107,C108,A6,AK105
Model differences:	All models covered in this report are the same with each other, except for different model and appearance (for color, silk-screen only) for trading purpose. We choose OC106 as the final test prototype
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN Mode Supported	<input checked="" type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11n(20MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11n(40MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ac(20MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ac(40MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ax(20MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ax(40MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11a/n/ac(HT20)/ax(HE20); 5190-5230MHz for 802.11n/ac(HT40)/ax(HE40); 5745-5825 MHz for 802.11a/n/ac(HT20)/ax(HE20); 5755-5795 MHz for 802.11n/ac(HT40)/ax(HE40);
Data Rate	<input checked="" type="checkbox"/> 802.11a:54/48/36/24/18/12/9/6Mbps <input checked="" type="checkbox"/> 802.11n:up to 300 Mbps <input checked="" type="checkbox"/> 802.11ac:up to 867 Mbps <input checked="" type="checkbox"/> 802.11ax:up to 1201 Mbps
Type of Modulation:	<input checked="" type="checkbox"/> OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n <input checked="" type="checkbox"/> OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac <input checked="" type="checkbox"/> OFDMA with 1024QAM for 802.11AX HE
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 ; 5 channels for 802.11a/n20 in the 5745-5825MHz band ; 2 channels for 802.11 n40 in the 5755-5795MHz band ;
Transmit Power:	WIFI5.1G:12.88dBm WIFI5.8G:10.03dBm
Antenna installation:	Internal antenna,
Antenna Gain:	WIFI5.1G Antenna : 0.70 dBi WIFI5.8G Antenna : 0.71 dBi
Power supply:	DC 5V for adapter
Adapter:	Model:PS10UA050K2000UU Input:100-240V,50/60Hz,0.35A Max Output:DC5.0V,2.0A,10W
Battery:	3.8V,19Wh

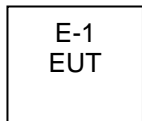
4.2 Test Setup Configuration

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	10.1 "tablet	N/A	OC106	N/A	EUT
E-2	Adapter	N/A	N/A	N/A	EUT

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

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 (5180-5240MHz):

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

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

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

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

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

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/ax 20 CH36/ CH40/ CH 48 802.11a /n/ ac /ax 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac/ax 40 CH38/ CH 46 802.11n/ ac/ax 40CH 151 / CH 159
Mode 3	Link Mode

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, Fuha i Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

5.2 Test Instrument Used

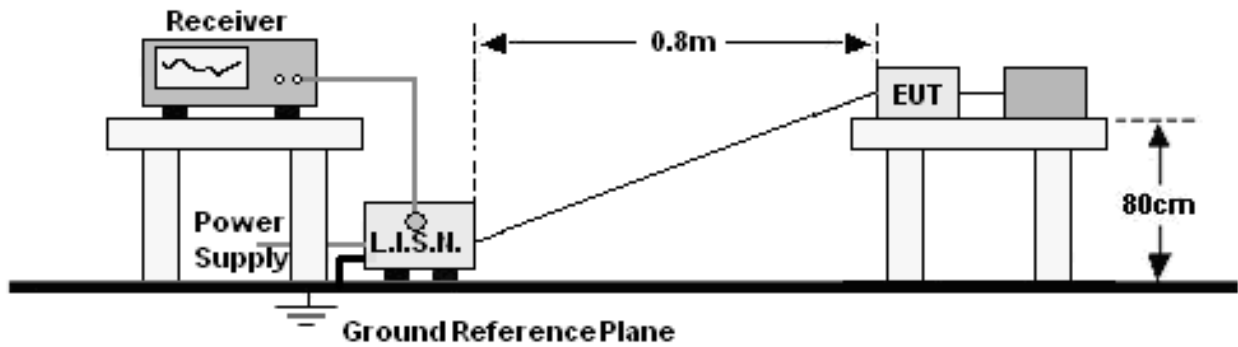
Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
LISN	R&S	ENV216	101375	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB DC-6GHz	1650	May 15, 2023	May 14, 2024

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	\	May 15, 2023	May 14, 2024
Power Sensor (AV)	Keysight	E9300A	\	May 15, 2023	May 14, 2024
Signal Analyzer20kHz- z-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	\	May 15, 2023	May 14, 2024

Radiated Emissions Test (966 Chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 15, 2023	May 14, 2024
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 15, 2023	May 14, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 15, 2023	May 14, 2024
Horn Antenn(18GH z-40GHz)	Schwarzbeck	BBHA9170	00822	May 15, 2023	May 14, 2024
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 15, 2023	May 14, 2024
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 15, 2023	May 14, 2024
RF cables1(9kHz- 30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-000 8	May 15, 2023	May 14, 2024
RF cables2(30MH z-1GHz)	Huber+Suhnar	30MHz-1GHz	1486150	May 15, 2023	May 14, 2024
RF cables3(1GHz -40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	May 15, 2023	May 14, 2024
Power Metter	Keysight	E4419	\	May 15, 2023	May 14, 2024
Power Sensor (AV)	Keysight	E9300A	\	May 15, 2023	May 14, 2024
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	\	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

Frequency (MHz)	Limit (dBuV)	
	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Notes:

- *Decreasing linearly with logarithm of frequency.
- The lower limit shall apply at the transition frequencies.

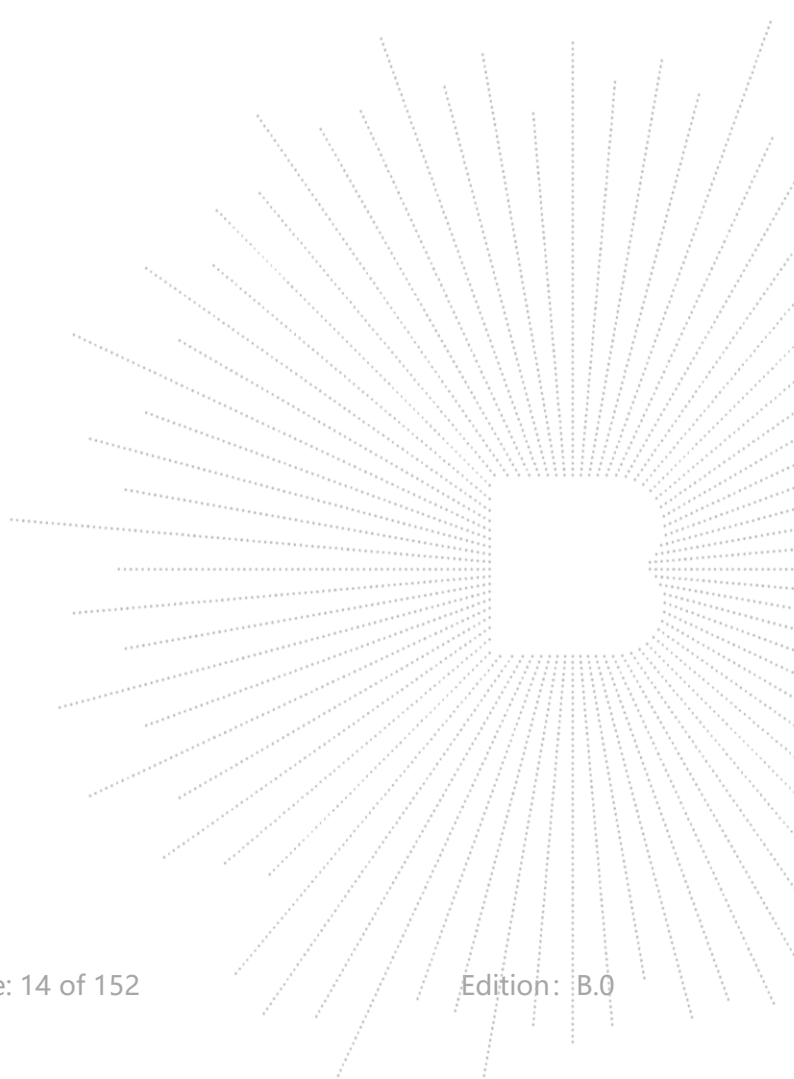
6.3 Test Procedure

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.

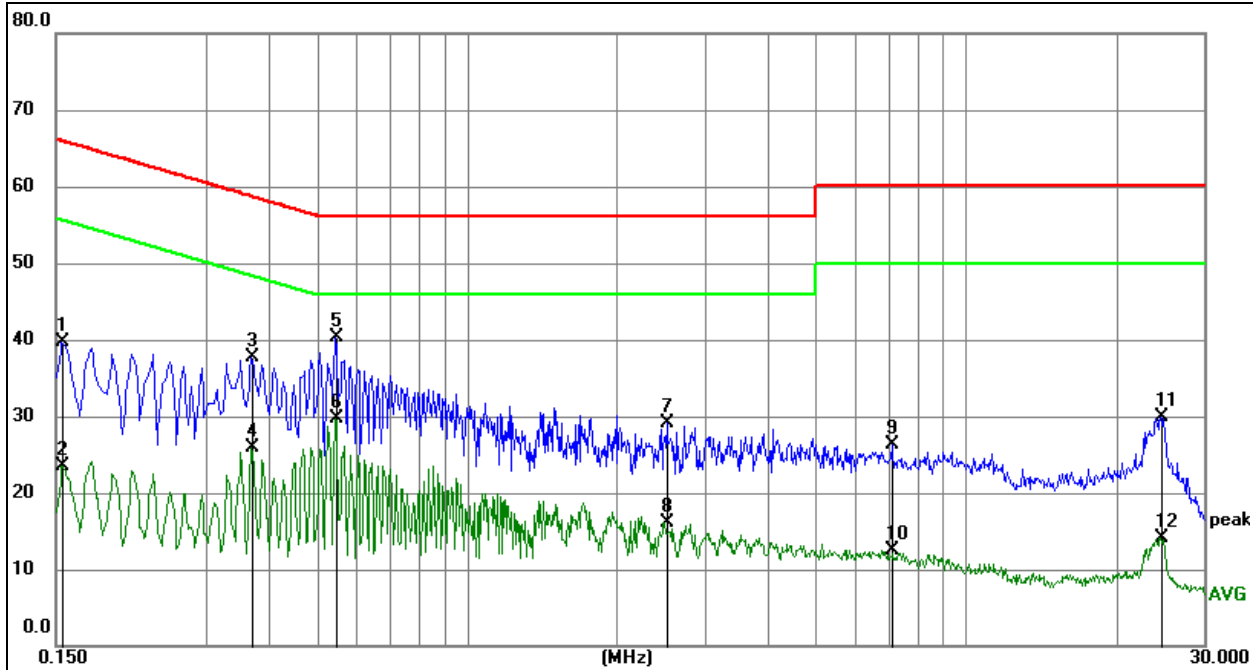
6.4 EUT Operating Conditions

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 :	L
Test Mode:	Mode 3	Test Voltage :	AC 120V/60Hz

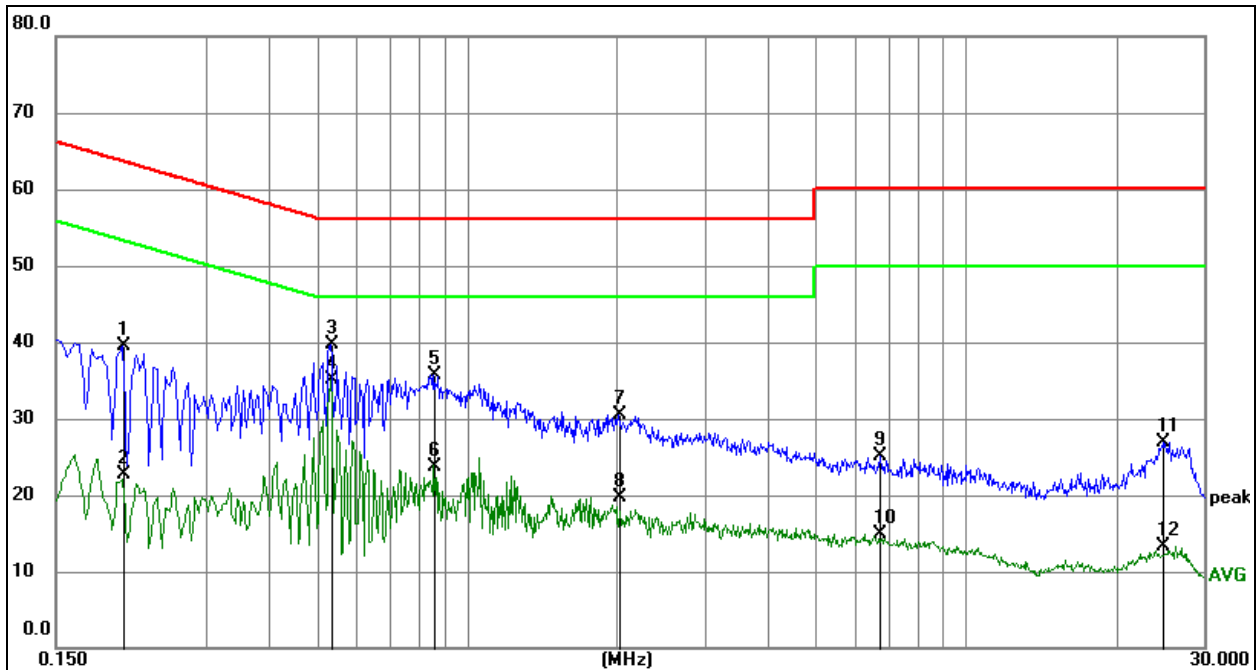


Remark:

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

No. Mk.	Freq. MHz	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
			dB	dBuV	dBuV	dB		
1	0.1545	29.38	10.31	39.69	65.75	-26.06	QP	
2	0.1545	13.29	10.31	23.60	55.75	-32.15	AVG	
3	0.3704	27.36	10.31	37.67	58.49	-20.82	QP	
4	0.3704	15.65	10.31	25.96	48.49	-22.53	AVG	
5 *	0.5460	29.91	10.31	40.22	56.00	-15.78	QP	
6	0.5460	19.39	10.31	29.70	46.00	-16.30	AVG	
7	2.5170	18.91	10.21	29.12	56.00	-26.88	QP	
8	2.5170	5.87	10.21	16.08	46.00	-29.92	AVG	
9	7.1340	15.80	10.52	26.32	60.00	-33.68	QP	
10	7.1340	1.94	10.52	12.46	50.00	-37.54	AVG	
11	24.5715	19.00	10.93	29.93	60.00	-30.07	QP	
12	24.5715	3.09	10.93	14.02	50.00	-35.98	AVG	

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 3	Test Voltage :	AC 120V/60Hz


Remark:

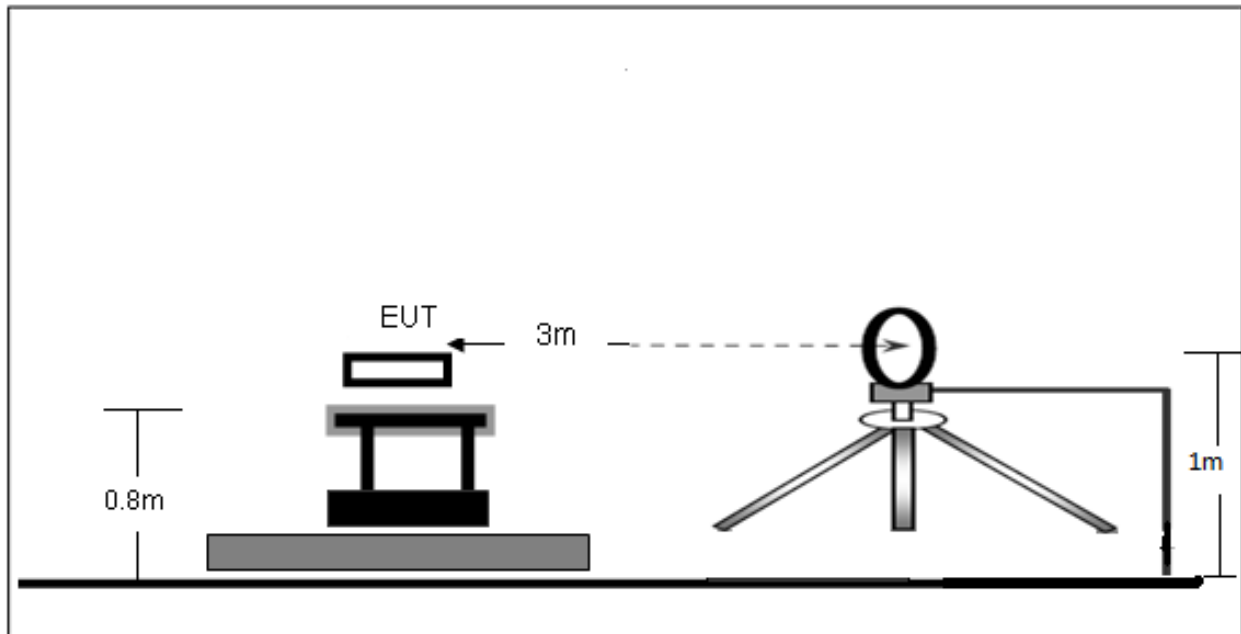
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No. Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.2040	29.28	10.31	39.57	63.45	-23.88	QP	
2	0.2040	12.31	10.31	22.62	53.45	-30.83	AVG	
3	0.5322	29.43	10.31	39.74	58.00	-18.26	QP	
4 *	0.5322	24.84	10.31	35.15	46.00	-10.85	AVG	
5	0.8573	25.53	10.21	35.74	56.00	-20.26	QP	
6	0.8573	13.59	10.21	23.80	46.00	-22.20	AVG	
7	2.0119	20.35	10.21	30.56	56.00	-25.44	QP	
8	2.0119	9.52	10.21	19.73	46.00	-26.27	AVG	
9	6.7333	14.62	10.48	25.10	60.00	-34.90	QP	
10	6.7333	4.39	10.48	14.87	50.00	-35.13	AVG	
11	24.9221	15.97	10.93	26.90	60.00	-33.10	QP	
12	24.9221	2.45	10.93	13.38	50.00	-36.62	AVG	

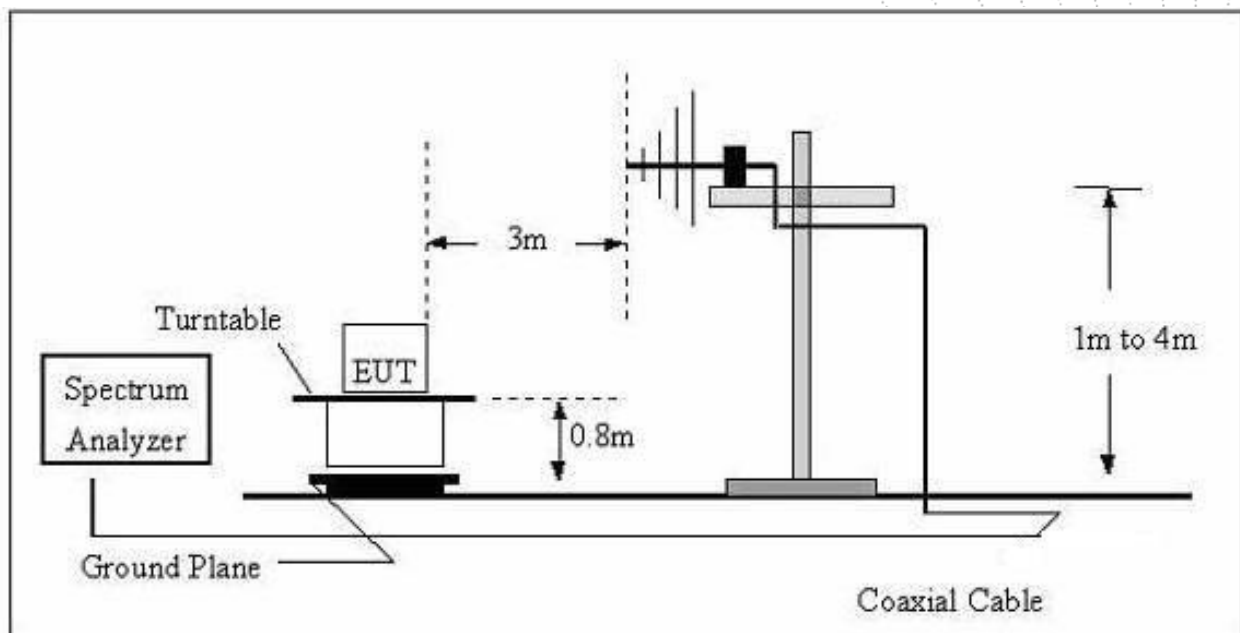
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

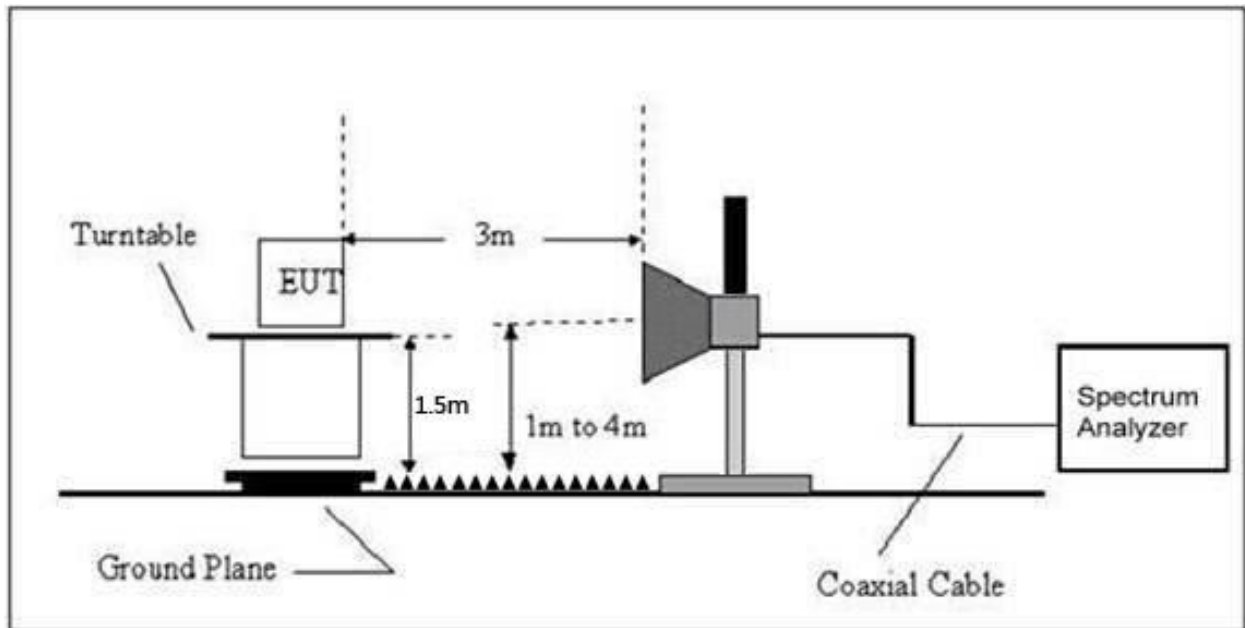
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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:	DC 3.8V
Test Mode:	Mode 3	Polarization:	--

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

Note:

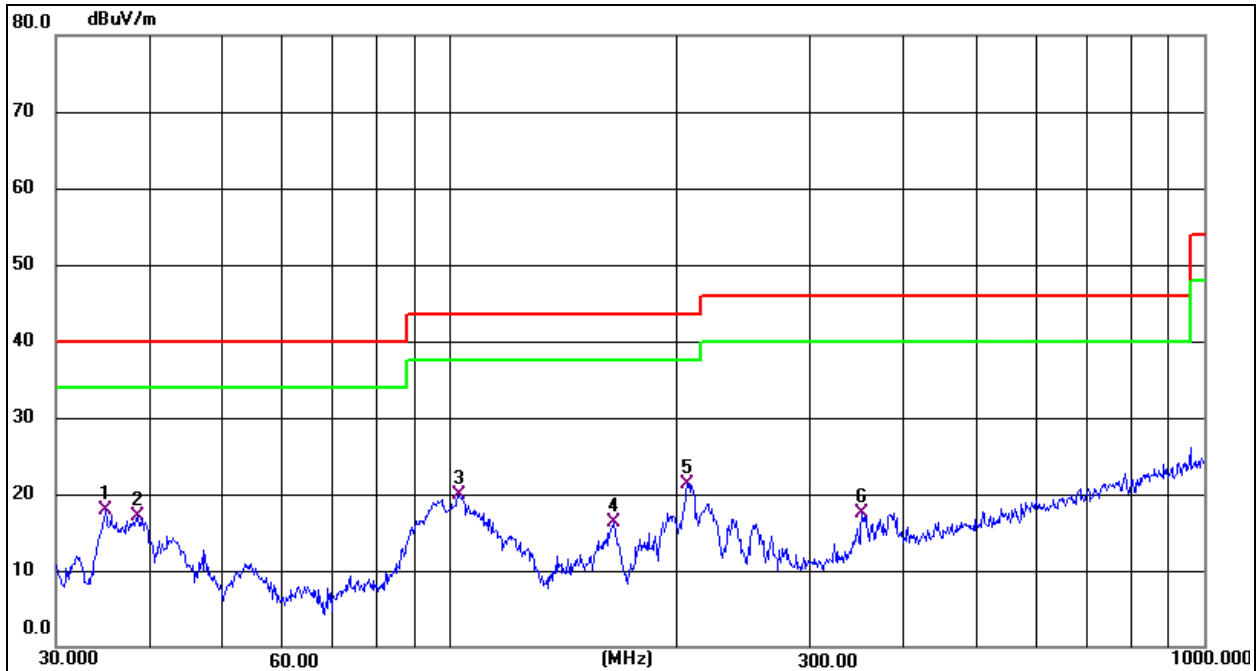
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

Temperature:	24 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	DC 3.8V
Test Mode:	Mode 3	Polarization :	Horizontal

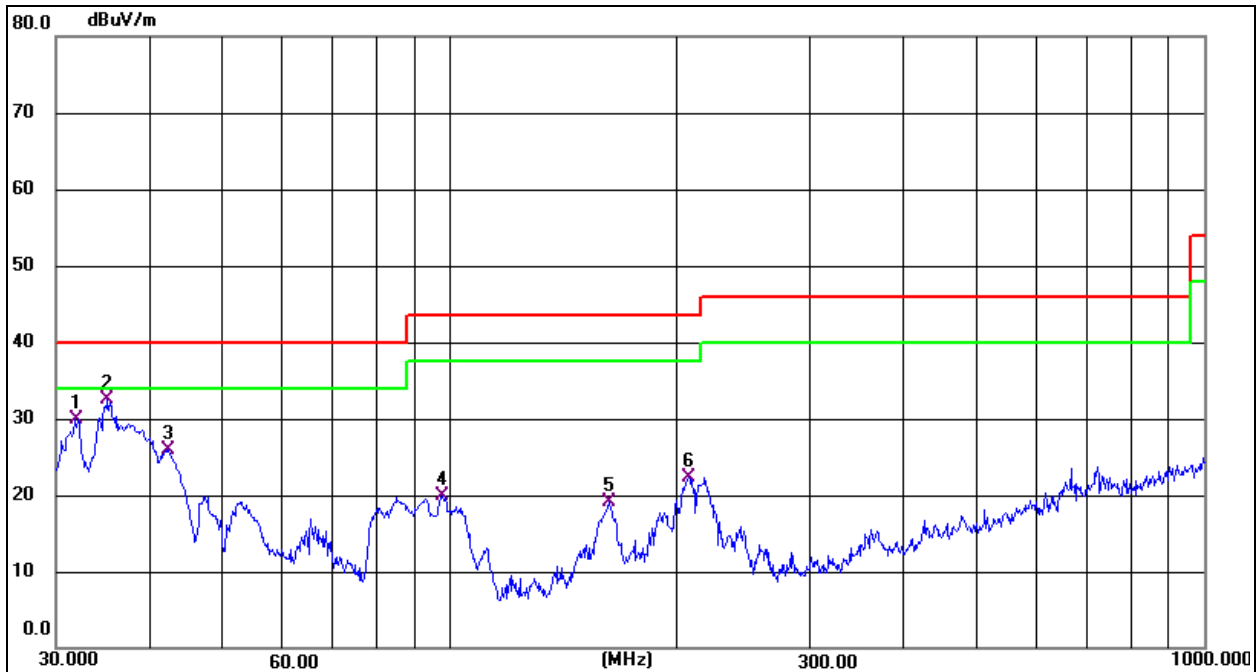


Remark:

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 *	34.8823	38.80	-20.96	17.84	40.00	-22.16	QP
2	38.4809	38.09	-20.98	17.11	40.00	-22.89	QP
3	102.7192	42.34	-22.41	19.93	43.50	-23.57	QP
4	164.9075	35.32	-19.08	16.24	43.50	-27.26	QP
5	206.3976	42.52	-21.26	21.26	43.50	-22.24	QP
6	351.7079	33.18	-15.59	17.59	48.00	-28.41	QP

Temperature:	24 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	DC 3.8V
Test Mode:	Mode 3	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	32.0687	51.24	-21.27	29.97	40.00	-10.03	QP
2 *	35.1278	53.45	-20.95	32.50	40.00	-7.50	QP
3	42.3022	47.03	-21.06	25.97	40.00	-14.03	QP
4	97.7983	42.85	-22.91	19.94	43.50	-23.56	QP
5	162.6106	37.78	-18.75	19.03	43.50	-24.47	QP
6	207.1226	43.60	-21.23	22.37	43.50	-21.13	QP

Test Mode :	TX(5.1G) - 802.11a
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.190	74.05	-20.73	53.32	68.2	-14.88	Pk
Vertical	4434.190	59.50	-20.73	38.77	54	-15.23	AV
Vertical	10360.141	64.37	-9.36	55.01	68.2	-13.19	Pk
Vertical	10360.141	49.41	-9.36	40.05	54	-13.95	AV
Vertical	15540.142	63.00	-7.84	55.16	74	-18.84	Pk
Vertical	15540.142	49.90	-7.84	42.06	54	-11.94	AV
Horizontal	4434.109	74.38	-20.73	53.65	68.2	-14.55	Pk
Horizontal	4434.109	59.84	-20.73	39.11	54	-14.89	AV
Horizontal	10360.140	62.48	-9.36	53.12	68.2	-15.08	Pk
Horizontal	10360.140	49.19	-9.36	39.83	54	-14.17	AV
Horizontal	15540.004	62.62	-7.84	54.78	74	-19.22	Pk
Horizontal	15540.004	49.75	-7.84	41.91	54	-12.09	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.042	71.74	-20.42	51.33	74	-22.67	Pk
Vertical	4592.042	59.19	-20.42	38.77	54	-15.23	AV
Vertical	10400.061	60.36	-9.30	51.06	68.2	-17.14	Pk
Vertical	10400.061	49.64	-9.30	40.34	54	-13.66	AV
Vertical	15600.070	64.17	-7.82	56.35	74	-17.65	Pk
Vertical	15600.070	49.05	-7.82	41.23	54	-12.77	AV
Horizontal	4592.173	73.21	-20.42	52.79	74	-21.21	Pk
Horizontal	4592.173	59.79	-20.42	39.37	54	-14.63	AV
Horizontal	10400.095	60.43	-9.30	51.13	68.2	-17.07	Pk
Horizontal	10400.095	49.57	-9.30	40.27	54	-13.73	AV
Horizontal	15600.113	61.18	-7.82	53.36	74	-20.64	Pk
Horizontal	15600.113	49.53	-7.82	41.71	54	-12.29	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.117	70.03	-20.12	49.91	74	-24.09	Pk
Vertical	4739.117	59.84	-20.12	39.71	54	-14.29	AV
Vertical	10480.055	61.87	-9.18	52.69	68.2	-15.51	Pk
Vertical	10480.055	49.66	-9.18	40.48	54	-13.52	AV
Vertical	15720.047	60.60	-7.78	52.82	74	-21.18	Pk
Vertical	15720.047	49.78	-7.78	42.00	54	-12.00	AV
Horizontal	4739.099	70.84	-20.12	50.72	74	-23.28	Pk
Horizontal	4739.099	59.87	-20.12	39.75	54	-14.25	AV
Horizontal	10480.102	63.35	-9.18	54.17	68.2	-14.03	Pk
Horizontal	10480.102	49.21	-9.18	40.03	54	-13.97	AV
Horizontal	15720.177	60.38	-7.78	52.60	74	-21.40	Pk
Horizontal	15720.177	49.12	-7.78	41.34	54	-12.66	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 (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.143	74.10	-20.73	53.37	68.2	-14.83	Pk
Vertical	4434.143	59.09	-20.73	38.36	54	-15.64	AV
Vertical	10360.016	63.78	-9.36	54.42	68.2	-13.78	Pk
Vertical	10360.016	49.96	-9.36	40.60	54	-13.40	AV
Vertical	15540.166	62.89	-7.84	55.05	74	-18.95	Pk
Vertical	15540.166	49.98	-7.84	42.14	54	-11.86	AV
Horizontal	4434.146	70.82	-20.73	50.09	68.2	-18.11	Pk
Horizontal	4434.146	59.86	-20.73	39.13	54	-14.87	AV
Horizontal	10360.131	60.18	-9.36	50.82	68.2	-17.38	Pk
Horizontal	10360.131	49.84	-9.36	40.48	54	-13.52	AV
Horizontal	15540.166	63.16	-7.84	55.32	74	-18.68	Pk
Horizontal	15540.166	49.48	-7.84	41.64	54	-12.36	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.092	70.86	-20.42	50.45	74	-23.55	Pk
Vertical	4592.092	59.75	-20.42	39.33	54	-14.67	AV
Vertical	10400.134	64.25	-9.30	54.95	68.2	-13.25	Pk
Vertical	10400.134	49.05	-9.30	39.75	54	-14.25	AV
Vertical	15600.126	61.31	-7.82	53.49	74	-20.51	Pk
Vertical	15600.126	49.34	-7.82	41.52	54	-12.48	AV
Horizontal	4592.085	70.71	-20.42	50.29	74	-23.71	Pk
Horizontal	4592.085	59.09	-20.42	38.67	54	-15.33	AV
Horizontal	10400.087	60.84	-9.30	51.54	68.2	-16.66	Pk
Horizontal	10400.087	49.09	-9.30	39.79	54	-14.21	AV
Horizontal	15600.010	60.18	-7.82	52.36	74	-21.64	Pk
Horizontal	15600.010	49.58	-7.82	41.76	54	-12.24	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.107	71.98	-20.12	51.86	74	-22.14	Pk
Vertical	4739.107	59.63	-20.12	39.51	54	-14.49	AV
Vertical	10480.170	61.80	-9.18	52.62	68.2	-15.58	Pk
Vertical	10480.170	49.92	-9.18	40.74	54	-13.26	AV
Vertical	15720.141	60.40	-7.78	52.62	74	-21.38	Pk
Vertical	15720.141	49.87	-7.78	42.09	54	-11.91	AV
Horizontal	4739.012	72.27	-20.12	52.15	74	-21.85	Pk
Horizontal	4739.012	59.15	-20.12	39.03	54	-14.97	AV
Horizontal	10480.146	64.69	-9.18	55.51	68.2	-12.69	Pk
Horizontal	10480.146	49.66	-9.18	40.48	54	-13.52	AV
Horizontal	15720.114	62.40	-7.78	54.62	74	-19.38	Pk
Horizontal	15720.114	49.91	-7.78	42.13	54	-11.87	AV

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

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

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

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

Test Mode :	TX(5.1G) - 802.11n-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.096	71.74	-20.73	51.01	68.2	-17.19	Pk
Vertical	4434.096	60.00	-20.73	39.26	54	-14.74	AV
Vertical	10380.040	64.24	-9.33	54.91	68.2	-13.29	Pk
Vertical	10380.040	49.35	-9.33	40.02	54	-13.98	AV
Vertical	15570.073	62.92	-7.83	55.09	74	-18.91	Pk
Vertical	15570.073	49.46	-7.83	41.63	54	-12.37	AV
Horizontal	4434.186	73.51	-20.73	52.78	74	-21.22	Pk
Horizontal	4434.186	59.38	-20.73	38.65	54	-15.35	AV
Horizontal	10380.017	64.15	-9.33	54.82	68.2	-13.38	Pk
Horizontal	10380.017	49.82	-9.33	40.49	54	-13.51	AV
Horizontal	15570.021	64.00	-7.83	56.17	74	-17.83	Pk
Horizontal	15570.021	49.96	-7.83	42.13	54	-11.87	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.153	74.13	-20.12	54.01	68.2	-14.19	Pk
Vertical	4739.153	59.07	-20.12	38.95	54	-15.05	AV
Vertical	10460.098	62.04	-9.21	52.83	68.2	-15.37	Pk
Vertical	10460.098	49.81	-9.21	40.60	54	-13.40	AV
Vertical	15690.036	64.58	-7.79	56.79	74	-17.21	Pk
Vertical	15690.036	49.39	-7.79	41.60	54	-12.40	AV
Horizontal	4739.084	71.21	-20.12	51.09	68.2	-17.11	Pk
Horizontal	4739.084	59.98	-20.12	39.86	54	-14.14	AV
Horizontal	10460.089	64.28	-9.21	55.07	68.2	-13.13	Pk
Horizontal	10460.089	49.84	-9.21	40.63	54	-13.37	AV
Horizontal	15690.153	60.64	-7.79	52.85	74	-21.15	Pk
Horizontal	15690.153	49.86	-7.79	42.07	54	-11.93	AV

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

Test Mode:	TX(5.1G) - 802.11ac-HT20
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.134	70.97	-20.73	50.24	68.2	-17.96	Pk
Vertical	4434.134	59.26	-20.73	38.53	54	-15.47	AV
Vertical	10360.055	61.91	-9.36	52.55	68.2	-15.65	Pk
Vertical	10360.055	49.55	-9.36	40.19	54	-13.81	AV
Vertical	15540.101	60.58	-7.84	52.74	74	-21.26	Pk
Vertical	15540.101	49.36	-7.84	41.52	54	-12.48	AV
Horizontal	4434.079	74.44	-20.73	53.70	68.2	-14.50	Pk
Horizontal	4434.079	59.14	-20.73	38.41	54	-15.59	AV
Horizontal	10360.117	62.49	-9.36	53.13	68.2	-15.07	Pk
Horizontal	10360.117	49.99	-9.36	40.63	54	-13.37	AV
Horizontal	15540.078	60.84	-7.84	53.00	74	-21.00	Pk
Horizontal	15540.078	49.02	-7.84	41.18	54	-12.82	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.043	71.92	-20.42	51.51	74	-22.49	Pk
Vertical	4592.043	59.88	-20.42	39.46	54	-14.54	AV
Vertical	10400.057	62.52	-9.30	53.22	68.2	-14.98	Pk
Vertical	10400.057	49.41	-9.30	40.11	54	-13.89	AV
Vertical	15600.021	64.11	-7.82	56.29	74	-17.71	Pk
Vertical	15600.021	49.66	-7.82	41.84	54	-12.16	AV
Horizontal	4592.149	72.98	-20.42	52.57	74	-21.43	Pk
Horizontal	4592.149	59.01	-20.42	38.59	54	-15.41	AV
Horizontal	10400.118	63.58	-9.30	54.28	68.2	-13.92	Pk
Horizontal	10400.118	49.27	-9.30	39.97	54	-14.03	AV
Horizontal	15600.091	63.78	-7.82	55.96	74	-18.04	Pk
Horizontal	15600.091	49.55	-7.82	41.73	54	-12.27	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.002	71.59	-20.12	51.47	74	-22.53	Pk
Vertical	4739.002	59.50	-20.12	39.38	54	-14.62	AV
Vertical	10480.195	62.69	-9.18	53.51	68.2	-14.69	Pk
Vertical	10480.195	49.21	-9.18	40.03	54	-13.97	AV
Vertical	15720.108	61.95	-7.78	54.17	74	-19.83	Pk
Vertical	15720.108	49.28	-7.78	41.50	54	-12.50	AV
Horizontal	4739.131	72.27	-20.12	52.14	74	-21.86	Pk
Horizontal	4739.131	59.75	-20.12	39.63	54	-14.37	AV
Horizontal	10480.095	62.77	-9.18	53.59	68.2	-14.61	Pk
Horizontal	10480.095	49.07	-9.18	39.89	54	-14.11	AV
Horizontal	15720.196	60.66	-7.78	52.88	74	-21.12	Pk
Horizontal	15720.196	49.17	-7.78	41.39	54	-12.61	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(5.1G) - 802.11ac-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.022	74.53	-20.73	53.79	68.2	-14.41	Pk
Vertical	4434.022	59.60	-20.73	38.87	54	-15.13	AV
Vertical	10380.142	63.81	-9.33	54.48	68.2	-13.72	Pk
Vertical	10380.142	49.69	-9.33	40.36	54	-13.64	AV
Vertical	15570.061	60.10	-7.83	52.27	74	-21.73	Pk
Vertical	15570.061	49.03	-7.83	41.20	54	-12.80	AV
Horizontal	4434.057	74.15	-20.73	53.42	74	-20.58	Pk
Horizontal	4434.057	59.16	-20.73	38.43	54	-15.57	AV
Horizontal	10380.126	64.07	-9.33	54.74	68.2	-13.46	Pk
Horizontal	10380.126	49.78	-9.33	40.45	54	-13.55	AV
Horizontal	15570.034	62.11	-7.83	54.28	74	-19.72	Pk
Horizontal	15570.034	49.39	-7.83	41.56	54	-12.44	AV
middle Channel (5230 MHz)-Above 1G							
Vertical	4739.010	74.77	-20.12	54.65	68.2	-13.55	Pk
Vertical	4739.010	59.60	-20.12	39.48	54	-14.52	AV
Vertical	10460.035	63.71	-9.21	54.50	68.2	-13.70	Pk
Vertical	10460.035	49.90	-9.21	40.69	54	-13.31	AV
Vertical	15690.125	64.33	-7.79	56.54	74	-17.46	Pk
Vertical	15690.125	49.58	-7.79	41.79	54	-12.21	AV
Horizontal	4739.056	74.22	-20.12	54.10	68.2	-14.10	Pk
Horizontal	4739.056	59.73	-20.12	39.61	54	-14.39	AV
Horizontal	10460.048	63.78	-9.21	54.57	68.2	-13.63	Pk
Horizontal	10460.048	49.00	-9.21	39.79	54	-14.21	AV
Horizontal	15690.126	64.02	-7.79	56.23	74	-17.77	Pk
Horizontal	15690.126	49.29	-7.79	41.50	54	-12.50	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.

- Undesirable radiated Undesirable radiated Spurious Emission in Band Edge
- All the modes 802.11a/n/ac has been tested and the worst result 802.11a recorded as below:

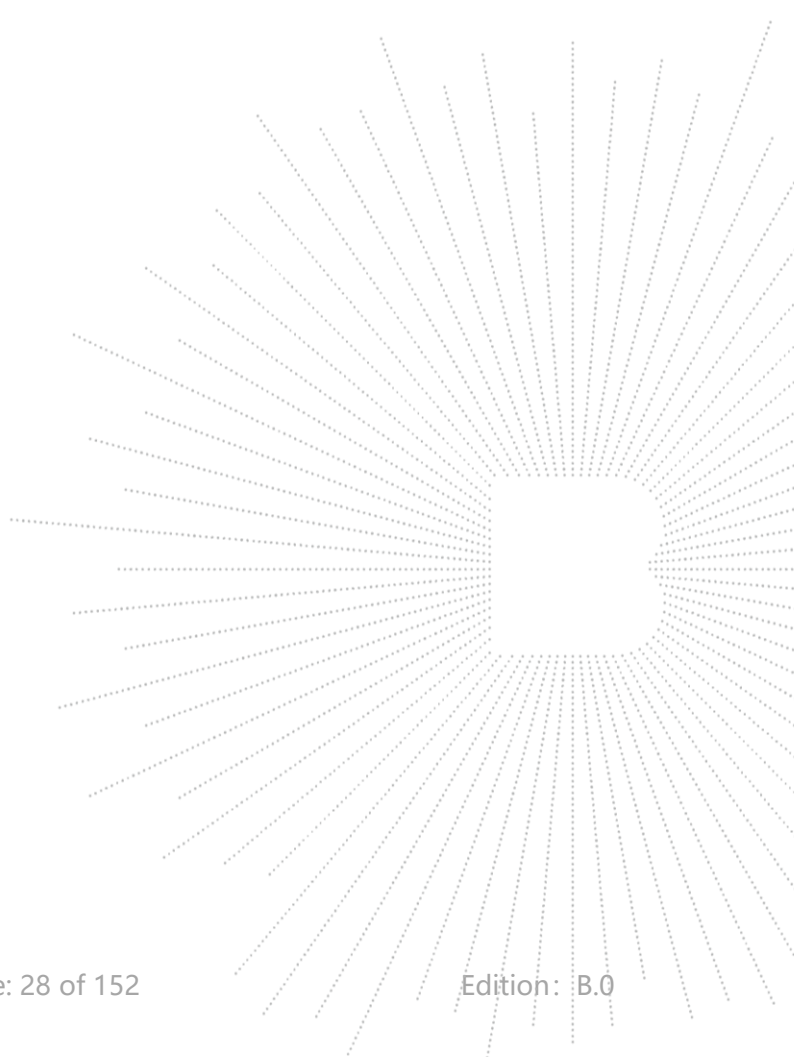
Test mode: 802.11a Frequency(MHz): 5180

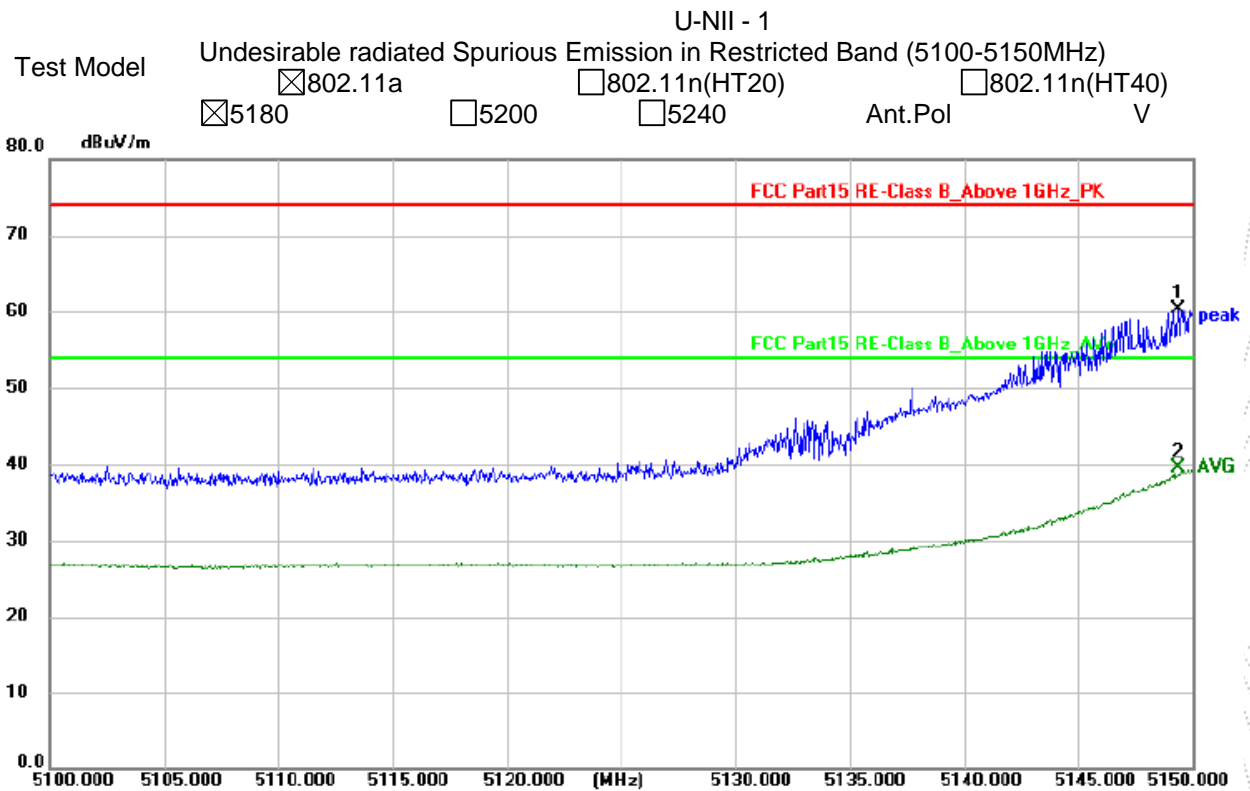
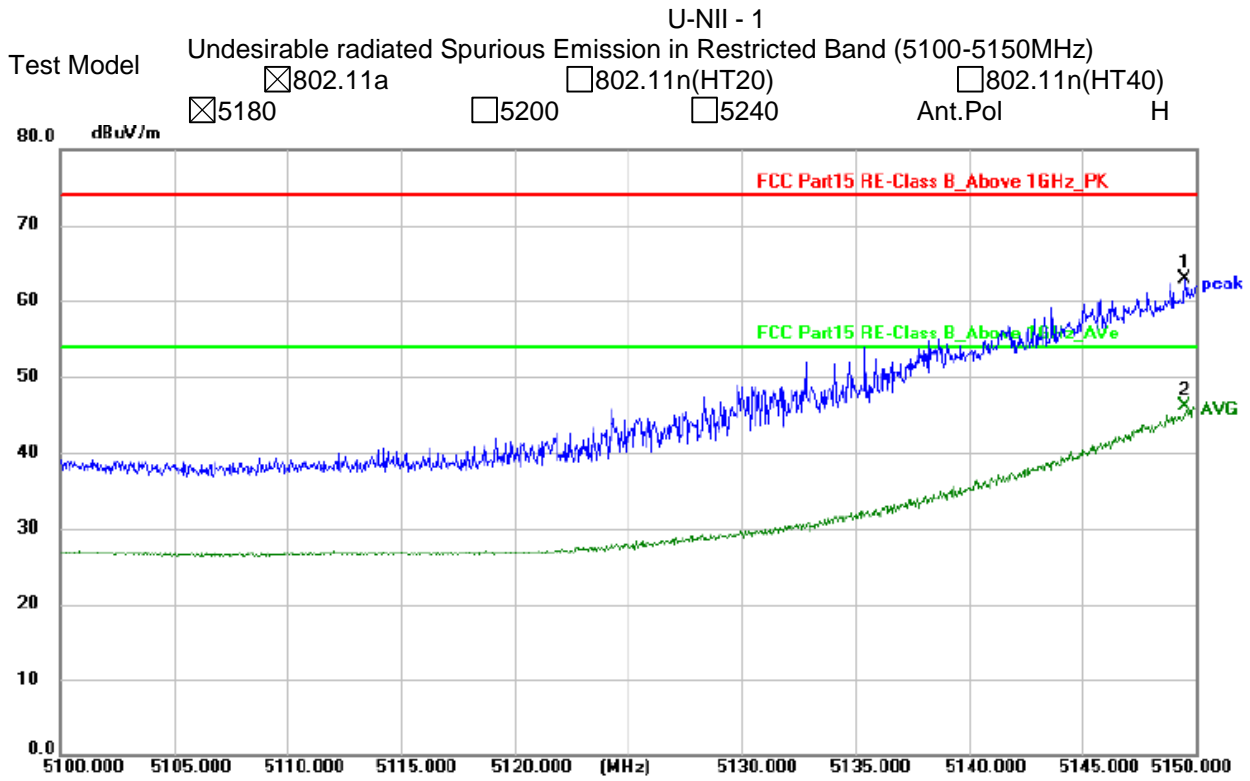
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5149.50	H	62.92	74	46.03	54
5149.35	V	60.21	74	39.43	54

Test mode: 802.11a Frequency(MHz): 5240

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5300.35	H	42.88	74	27.35	54
5300.25	V	41.86	74	27.20	54

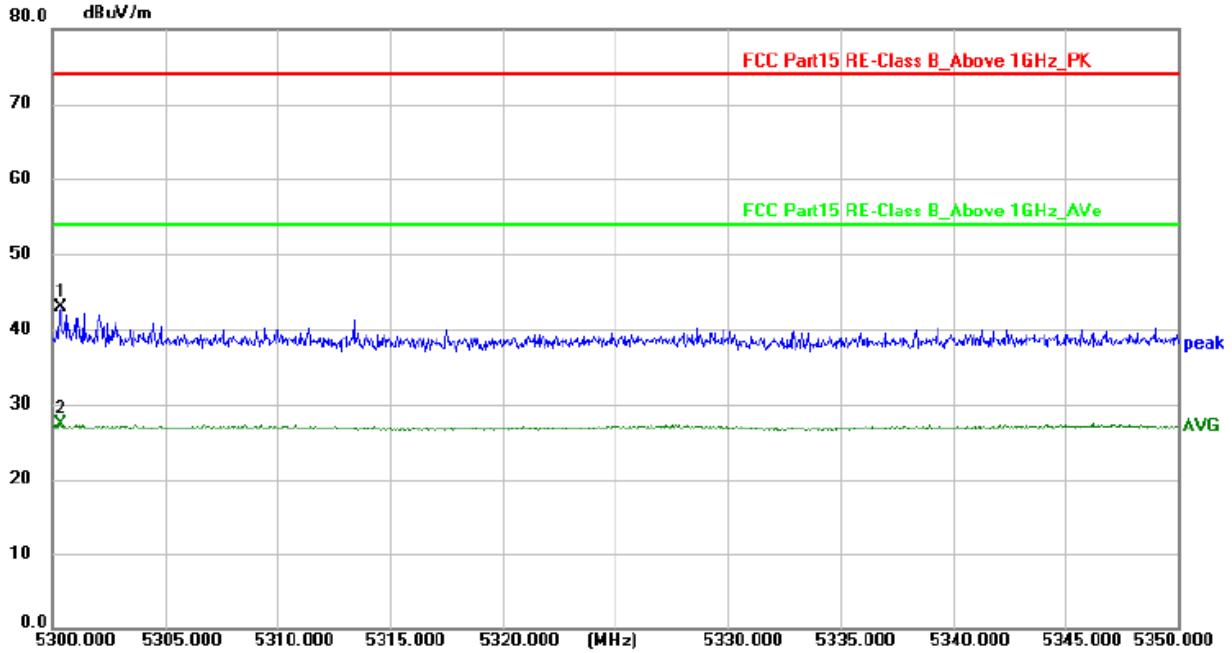
- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp





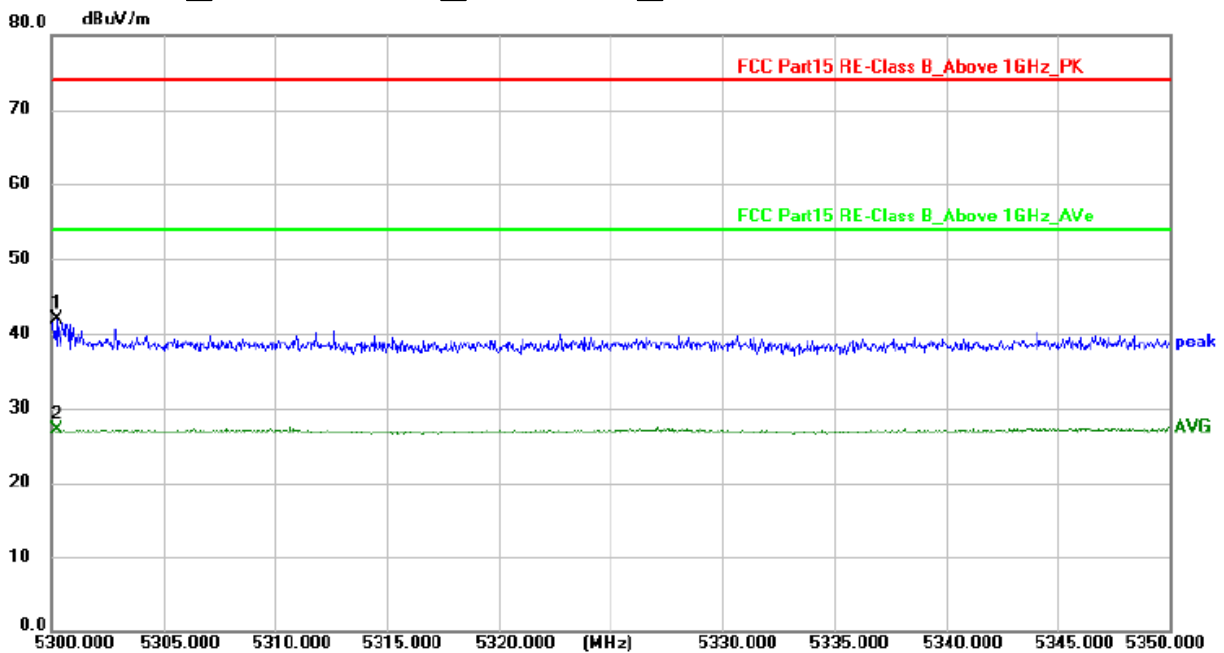
U-NII - 1

Test Model Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)
 5180 802.11a 802.11n(HT20) 802.11n(HT40)
 5200 5240 Ant.Pol H



U-NII - 1

Test Model Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)
 5180 802.11a 802.11n(HT20) 802.11n(HT40)
 5200 5240 Ant.Pol V



Test Mode:	TX(5.1G) - 802.11ax-HE20
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.189	73.07	-20.73	52.34	68.2	-15.86	Pk
Vertical	4434.189	59.54	-20.73	38.81	54	-15.19	AV
Vertical	10360.091	63.48	-9.36	54.12	68.2	-14.08	Pk
Vertical	10360.091	49.71	-9.36	40.35	54	-13.65	AV
Vertical	15540.169	60.82	-7.84	52.98	74	-21.02	Pk
Vertical	15540.169	49.04	-7.84	41.20	54	-12.80	AV
Horizontal	4434.161	73.94	-20.73	53.20	68.2	-15.00	Pk
Horizontal	4434.161	59.88	-20.73	39.15	54	-14.85	AV
Horizontal	10360.042	60.68	-9.36	51.32	68.2	-16.88	Pk
Horizontal	10360.042	49.53	-9.36	40.17	54	-13.83	AV
Horizontal	15540.199	60.31	-7.84	52.47	74	-21.53	Pk
Horizontal	15540.199	49.44	-7.84	41.60	54	-12.40	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.138	70.01	-20.42	49.60	74	-24.40	Pk
Vertical	4592.138	59.74	-20.42	39.32	54	-14.68	AV
Vertical	10400.190	63.44	-9.30	54.14	68.2	-14.06	Pk
Vertical	10400.190	49.61	-9.30	40.31	54	-13.69	AV
Vertical	15600.200	60.86	-7.82	53.04	74	-20.96	Pk
Vertical	15600.200	49.83	-7.82	42.01	54	-11.99	AV
Horizontal	4592.048	71.23	-20.42	50.81	74	-23.19	Pk
Horizontal	4592.048	59.86	-20.42	39.44	54	-14.56	AV
Horizontal	10400.125	64.46	-9.30	55.16	68.2	-13.04	Pk
Horizontal	10400.125	49.94	-9.30	40.64	54	-13.36	AV
Horizontal	15600.149	63.16	-7.82	55.34	74	-18.66	Pk
Horizontal	15600.149	49.64	-7.82	41.82	54	-12.18	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.107	72.71	-20.12	52.58	74	-21.42	Pk
Vertical	4739.107	59.54	-20.12	39.42	54	-14.58	AV
Vertical	10480.015	60.88	-9.18	51.70	68.2	-16.50	Pk
Vertical	10480.015	49.16	-9.18	39.98	54	-14.02	AV
Vertical	15720.192	63.85	-7.78	56.07	74	-17.93	Pk
Vertical	15720.192	49.74	-7.78	41.96	54	-12.04	AV
Horizontal	4739.003	70.21	-20.12	50.09	74	-23.91	Pk
Horizontal	4739.003	59.52	-20.12	39.39	54	-14.61	AV
Horizontal	10480.110	64.63	-9.18	55.45	68.2	-12.75	Pk
Horizontal	10480.110	49.28	-9.18	40.10	54	-13.90	AV
Horizontal	15720.054	60.43	-7.78	52.65	74	-21.35	Pk
Horizontal	15720.054	49.77	-7.78	41.99	54	-12.01	AV

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

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

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

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

Test Mode:	TX(5.1G) - 802.11ax-HE40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.161	73.38	-20.73	52.65	68.2	-15.55	Pk
Vertical	4434.161	59.17	-20.73	38.44	54	-15.56	AV
Vertical	10380.155	62.77	-9.33	53.44	68.2	-14.76	Pk
Vertical	10380.155	49.59	-9.33	40.26	54	-13.74	AV
Vertical	15570.015	60.50	-7.83	52.67	74	-21.33	Pk
Vertical	15570.015	49.03	-7.83	41.20	54	-12.80	AV
Horizontal	4434.029	70.93	-20.73	50.20	74	-23.80	Pk
Horizontal	4434.029	59.66	-20.73	38.93	54	-15.07	AV
Horizontal	10380.150	62.86	-9.33	53.53	68.2	-14.67	Pk
Horizontal	10380.150	49.87	-9.33	40.54	54	-13.46	AV
Horizontal	15570.195	60.92	-7.83	53.09	74	-20.91	Pk
Horizontal	15570.195	49.39	-7.83	41.56	54	-12.44	AV
middle Channel (5230 MHz)-Above 1G							
Vertical	4739.005	70.98	-20.12	50.86	68.2	-17.34	Pk
Vertical	4739.005	59.90	-20.12	39.77	54	-14.23	AV
Vertical	10460.042	63.40	-9.21	54.19	68.2	-14.01	Pk
Vertical	10460.042	49.00	-9.21	39.79	54	-14.21	AV
Vertical	15690.177	64.62	-7.79	56.83	74	-17.17	Pk
Vertical	15690.177	49.53	-7.79	41.74	54	-12.26	AV
Horizontal	4739.095	70.49	-20.12	50.36	68.2	-17.84	Pk
Horizontal	4739.095	59.97	-20.12	39.85	54	-14.15	AV
Horizontal	10460.045	61.42	-9.21	52.21	68.2	-15.99	Pk
Horizontal	10460.045	49.99	-9.21	40.78	54	-13.22	AV
Horizontal	15690.139	64.75	-7.79	56.96	74	-17.04	Pk
Horizontal	15690.139	49.43	-7.79	41.64	54	-12.36	AV

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

Test Mode:	TX(5.8G) - 802.11a
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.082	74.31	-20.24	54.07	74	-19.93	Pk
Vertical	4679.082	59.17	-20.24	38.93	54	-15.07	AV
Vertical	11490.042	63.96	-8.79	55.17	68.2	-13.03	Pk
Vertical	11490.042	49.77	-8.79	40.98	54	-13.02	AV
Vertical	17235.057	57.34	-3.18	54.16	68.2	-14.04	Pk
Vertical	17235.057	44.52	-3.18	41.34	54	-12.66	AV
Horizontal	4679.011	70.63	-20.73	49.90	74	-24.10	Pk
Horizontal	4679.011	59.55	-20.73	38.82	54	-15.18	AV
Horizontal	11490.193	64.82	-8.79	56.03	68.2	-12.17	Pk
Horizontal	11490.193	49.30	-8.79	40.51	54	-13.49	AV
Horizontal	17235.028	57.91	-3.18	54.73	68.2	-13.47	Pk
Horizontal	17235.028	44.25	-3.18	41.07	54	-12.93	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.113	73.71	-20.42	53.30	74	-20.70	Pk
Vertical	4592.113	59.50	-20.42	39.08	54	-14.92	AV
Vertical	11570.041	62.86	-8.86	54.00	68.2	-14.20	Pk
Vertical	11570.041	49.04	-8.86	40.18	54	-13.82	AV
Vertical	17355.124	59.25	-2.52	56.73	68.2	-11.47	Pk
Vertical	17355.124	44.12	-2.52	41.60	54	-12.40	AV
Horizontal	4592.006	72.07	-20.42	51.66	74	-22.34	Pk
Horizontal	4592.006	59.32	-20.42	38.90	54	-15.10	AV
Horizontal	11570.068	60.67	-8.86	51.81	68.2	-16.39	Pk
Horizontal	11570.068	49.49	-8.86	40.63	54	-13.37	AV
Horizontal	17355.122	59.39	-2.52	56.87	68.2	-11.33	Pk
Horizontal	17355.122	44.82	-2.52	42.30	54	-11.70	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.038	70.08	-18.93	51.15	68.2	-17.05	Pk
Vertical	6039.038	59.97	-18.93	41.04	54	-12.96	AV
Vertical	11650.081	62.82	-8.92	53.90	74	-20.10	Pk
Vertical	11650.081	49.93	-8.92	41.01	54	-12.99	AV
Vertical	17475.046	58.14	-1.86	56.28	68.2	-11.92	Pk
Vertical	17475.046	44.68	-1.86	42.82	54	-11.18	AV
Horizontal	6039.177	74.06	-18.93	55.13	68.2	-13.07	Pk
Horizontal	6039.177	59.54	-18.93	40.61	54	-13.39	AV
Horizontal	11650.076	63.91	-8.92	54.99	74	-19.01	Pk
Horizontal	11650.076	49.90	-8.92	40.98	54	-13.02	AV
Horizontal	17475.159	58.88	-1.86	57.02	68.2	-11.18	Pk
Horizontal	17475.159	44.61	-1.86	42.75	54	-11.25	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(5.8G) - 802.11n-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.162	73.26	-20.24	53.02	74	-20.98	Pk
Vertical	4679.162	59.32	-20.24	39.07	54	-14.93	AV
Vertical	11490.126	64.02	-8.79	55.23	68.2	-12.97	Pk
Vertical	11490.126	49.46	-8.79	40.67	54	-13.33	AV
Vertical	17235.080	58.05	-3.18	54.87	68.2	-13.33	Pk
Vertical	17235.080	44.81	-3.18	41.63	54	-12.37	AV
Horizontal	4679.002	72.31	-20.73	51.58	74	-22.42	Pk
Horizontal	4679.002	59.46	-20.73	38.73	54	-15.27	AV
Horizontal	11490.179	63.62	-8.79	54.83	68.2	-13.37	Pk
Horizontal	11490.179	49.11	-8.79	40.32	54	-13.68	AV
Horizontal	17235.063	56.01	-3.18	52.83	68.2	-15.37	Pk
Horizontal	17235.063	44.50	-3.18	41.32	54	-12.68	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.089	73.36	-20.42	52.95	74	-21.05	Pk
Vertical	4592.089	59.56	-20.42	39.14	54	-14.86	AV
Vertical	11570.058	63.43	-8.86	54.57	68.2	-13.63	Pk
Vertical	11570.058	49.13	-8.86	40.27	54	-13.73	AV
Vertical	17355.083	57.76	-2.52	55.24	68.2	-12.96	Pk
Vertical	17355.083	44.09	-2.52	41.57	54	-12.43	AV
Horizontal	4592.042	70.53	-20.42	50.12	74	-23.88	Pk
Horizontal	4592.042	59.30	-20.42	38.88	54	-15.12	AV
Horizontal	11570.142	62.69	-8.86	53.83	68.2	-14.37	Pk
Horizontal	11570.142	49.65	-8.86	40.79	54	-13.21	AV
Horizontal	17355.069	57.15	-2.52	54.63	68.2	-13.57	Pk
Horizontal	17355.069	44.26	-2.52	41.74	54	-12.26	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.167	74.63	-18.93	55.70	68.2	-12.50	Pk
Vertical	6039.167	59.43	-18.93	40.49	54	-13.51	AV
Vertical	11650.138	63.76	-8.92	54.84	74	-19.16	Pk
Vertical	11650.138	49.94	-8.92	41.02	54	-12.98	AV
Vertical	17475.050	59.41	-1.86	57.55	68.2	-10.65	Pk
Vertical	17475.050	44.01	-1.86	42.15	54	-11.85	AV
Horizontal	6039.123	70.13	-18.93	51.20	68.2	-17.00	Pk
Horizontal	6039.123	59.73	-18.93	40.80	54	-13.20	AV
Horizontal	11650.088	64.28	-8.92	55.36	74	-18.64	Pk
Horizontal	11650.088	49.17	-8.92	40.25	54	-13.75	AV
Horizontal	17475.130	59.15	-1.86	57.29	68.2	-10.91	Pk
Horizontal	17475.130	44.57	-1.86	42.71	54	-11.29	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(5.8G) - 802.11n-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.032	70.82	-20.24	50.57	74	-23.43	Pk
Vertical	4679.032	59.08	-20.24	38.84	54	-15.16	AV
Vertical	11510.057	64.95	-8.81	56.14	74	-17.86	Pk
Vertical	11510.057	49.51	-8.81	40.70	54	-13.30	AV
Vertical	17265.119	58.93	-3.01	55.92	68.2	-12.28	Pk
Vertical	17265.119	44.88	-3.01	41.87	54	-12.13	AV
Horizontal	4679.166	73.71	-20.24	53.47	74	-20.53	Pk
Horizontal	4679.166	59.34	-20.24	39.10	54	-14.90	AV
Horizontal	11510.171	64.91	-8.81	56.10	74	-17.90	Pk
Horizontal	11510.171	49.44	-8.81	40.63	54	-13.37	AV
Horizontal	17265.140	55.59	-3.01	52.58	68.2	-15.62	Pk
Horizontal	17265.140	44.11	-3.01	41.10	54	-12.90	AV
middle Channel (5795 MHz)-Above 1G							
Vertical	6039.015	74.96	-18.93	56.03	68.2	-12.17	Pk
Vertical	6039.015	59.96	-18.93	41.03	54	-12.97	AV
Vertical	11590.163	60.47	-8.87	51.60	74	-22.40	Pk
Vertical	11590.163	49.12	-8.87	40.25	54	-13.75	AV
Vertical	17385.104	58.42	-2.35	56.07	68.2	-12.13	Pk
Vertical	17385.104	44.86	-2.35	42.51	54	-11.49	AV
Horizontal	6039.182	71.07	-18.93	52.13	68.2	-16.07	Pk
Horizontal	6039.182	59.16	-18.93	40.23	54	-13.77	AV
Horizontal	11590.053	60.61	-8.87	51.74	74	-22.26	Pk
Horizontal	11590.053	49.46	-8.87	40.59	54	-13.41	AV
Horizontal	17385.078	59.53	-2.35	57.18	68.2	-11.02	Pk
Horizontal	17385.078	44.67	-2.35	42.32	54	-11.68	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) - 802.11ac-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.153	71.62	-20.24	51.38	74	-22.62	Pk
Vertical	4679.153	59.83	-20.24	39.59	54	-14.41	AV
Vertical	11490.100	63.04	-8.79	54.25	68.2	-13.95	Pk
Vertical	11490.100	49.50	-8.79	40.71	54	-13.29	AV
Vertical	17235.100	57.56	-3.18	54.38	68.2	-13.82	Pk
Vertical	17235.100	44.17	-3.18	40.99	54	-13.01	AV
Horizontal	4679.172	70.83	-20.73	50.10	74	-23.90	Pk
Horizontal	4679.172	59.12	-20.73	38.39	54	-15.61	AV
Horizontal	11490.009	64.98	-8.79	56.19	68.2	-12.01	Pk
Horizontal	11490.009	49.19	-8.79	40.40	54	-13.60	AV
Horizontal	17235.101	55.58	-3.18	52.40	68.2	-15.80	Pk
Horizontal	17235.101	44.79	-3.18	41.61	54	-12.39	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.104	73.76	-20.42	53.34	74	-20.66	Pk
Vertical	4592.104	59.69	-20.42	39.28	54	-14.72	AV
Vertical	11570.020	62.30	-8.86	53.44	68.2	-14.76	Pk
Vertical	11570.020	49.20	-8.86	40.34	54	-13.66	AV
Vertical	17355.056	55.21	-2.52	52.69	68.2	-15.51	Pk
Vertical	17355.056	44.02	-2.52	41.50	54	-12.50	AV
Horizontal	4592.176	71.43	-20.42	51.01	74	-22.99	Pk
Horizontal	4592.176	59.95	-20.42	39.54	54	-14.46	AV
Horizontal	11570.026	60.83	-8.86	51.97	68.2	-16.23	Pk
Horizontal	11570.026	49.18	-8.86	40.32	54	-13.68	AV
Horizontal	17355.178	58.51	-2.52	55.99	68.2	-12.21	Pk
Horizontal	17355.178	44.34	-2.52	41.82	54	-12.18	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.042	74.54	-18.93	55.60	68.2	-12.60	Pk
Vertical	6039.042	59.19	-18.93	40.26	54	-13.74	AV
Vertical	11650.025	61.15	-8.92	52.23	74	-21.77	Pk
Vertical	11650.025	49.78	-8.92	40.86	54	-13.14	AV
Vertical	17475.156	59.79	-1.86	57.93	68.2	-10.27	Pk
Vertical	17475.156	44.46	-1.86	42.60	54	-11.40	AV
Horizontal	6039.015	74.66	-18.93	55.73	68.2	-12.47	Pk
Horizontal	6039.015	59.87	-18.93	40.93	54	-13.07	AV
Horizontal	11650.193	63.94	-8.92	55.02	74	-18.98	Pk
Horizontal	11650.193	49.25	-8.92	40.33	54	-13.67	AV
Horizontal	17475.184	56.15	-1.86	54.29	68.2	-13.91	Pk
Horizontal	17475.184	44.84	-1.86	42.98	54	-11.02	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) - 802.11ac-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.062	74.37	-20.24	54.13	74	-19.87	Pk
Vertical	4679.062	59.60	-20.24	39.35	54	-14.65	AV
Vertical	11510.010	60.80	-8.81	51.99	74	-22.01	Pk
Vertical	11510.010	49.23	-8.81	40.42	54	-13.58	AV
Vertical	17265.025	55.65	-3.01	52.64	68.2	-15.56	Pk
Vertical	17265.025	44.57	-3.01	41.56	54	-12.44	AV
Horizontal	4679.016	74.70	-20.24	54.45	74	-19.55	Pk
Horizontal	4679.016	59.14	-20.24	38.89	54	-15.11	AV
Horizontal	11510.113	62.06	-8.81	53.25	74	-20.75	Pk
Horizontal	11510.113	49.63	-8.81	40.82	54	-13.18	AV
Horizontal	17265.091	58.31	-3.01	55.30	68.2	-12.90	Pk
Horizontal	17265.091	44.65	-3.01	41.64	54	-12.36	AV
middle Channel (5795 MHz)-Above 1G							
Vertical	6039.139	74.72	-18.93	55.79	68.2	-12.41	Pk
Vertical	6039.139	59.47	-18.93	40.54	54	-13.46	AV
Vertical	11590.048	61.51	-8.87	52.64	74	-21.36	Pk
Vertical	11590.048	50.00	-8.87	41.13	54	-12.87	AV
Vertical	17385.134	59.74	-2.35	57.39	68.2	-10.81	Pk
Vertical	17385.134	44.33	-2.35	41.98	54	-12.02	AV
Horizontal	6039.058	70.57	-18.93	51.63	68.2	-16.57	Pk
Horizontal	6039.058	59.11	-18.93	40.18	54	-13.82	AV
Horizontal	11590.164	61.40	-8.87	52.53	74	-21.47	Pk
Horizontal	11590.164	49.22	-8.87	40.35	54	-13.65	AV
Horizontal	17385.015	58.48	-2.35	56.13	68.2	-12.07	Pk
Horizontal	17385.015	44.07	-2.35	41.72	54	-12.28	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) - 802.11ax-HE20
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.108	72.18	-20.24	51.93	74	-22.07	Pk
Vertical	4679.108	59.47	-20.24	39.23	54	-14.77	AV
Vertical	11490.089	64.51	-8.79	55.72	68.2	-12.48	Pk
Vertical	11490.089	49.76	-8.79	40.97	54	-13.03	AV
Vertical	17235.178	57.63	-3.18	54.45	68.2	-13.75	Pk
Vertical	17235.178	44.94	-3.18	41.76	54	-12.24	AV
Horizontal	4679.125	72.22	-20.24	51.98	74	-22.02	Pk
Horizontal	4679.125	59.78	-20.24	39.53	54	-14.47	AV
Horizontal	11490.061	64.20	-8.79	55.41	68.2	-12.79	Pk
Horizontal	11490.061	49.88	-8.79	41.09	54	-12.91	AV
Horizontal	17235.036	55.25	-3.18	52.07	68.2	-16.13	Pk
Horizontal	17235.036	44.49	-3.18	41.31	54	-12.69	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.163	70.53	-20.42	50.11	74	-23.89	Pk
Vertical	4592.163	59.59	-20.42	39.18	54	-14.82	AV
Vertical	11570.079	60.88	-8.86	52.02	68.2	-16.18	Pk
Vertical	11570.079	49.74	-8.86	40.88	54	-13.12	AV
Vertical	17355.120	58.70	-2.52	56.18	68.2	-12.02	Pk
Vertical	17355.120	44.37	-2.52	41.85	54	-12.15	AV
Horizontal	4592.057	71.05	-20.42	50.64	74	-23.36	Pk
Horizontal	4592.057	59.53	-20.42	39.11	54	-14.89	AV
Horizontal	11570.046	62.51	-8.86	53.65	68.2	-14.55	Pk
Horizontal	11570.046	49.53	-8.86	40.67	54	-13.33	AV
Horizontal	17355.165	58.57	-2.52	56.05	68.2	-12.15	Pk
Horizontal	17355.165	44.29	-2.52	41.77	54	-12.23	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.122	72.60	-18.93	53.67	68.2	-14.53	Pk
Vertical	6039.122	59.74	-18.93	40.81	54	-13.19	AV
Vertical	11650.166	64.48	-8.92	55.56	74	-18.44	Pk
Vertical	11650.166	49.85	-8.92	40.93	54	-13.07	AV
Vertical	17475.190	57.90	-1.86	56.04	68.2	-12.16	Pk
Vertical	17475.190	44.82	-1.86	42.96	54	-11.04	AV
Horizontal	6039.177	74.05	-18.93	55.12	68.2	-13.08	Pk
Horizontal	6039.177	59.51	-18.93	40.58	54	-13.42	AV
Horizontal	11650.199	61.12	-8.92	52.20	74	-21.80	Pk
Horizontal	11650.199	49.63	-8.92	40.71	54	-13.29	AV
Horizontal	17475.041	55.70	-1.86	53.84	68.2	-14.36	Pk
Horizontal	17475.041	44.57	-1.86	42.71	54	-11.29	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.

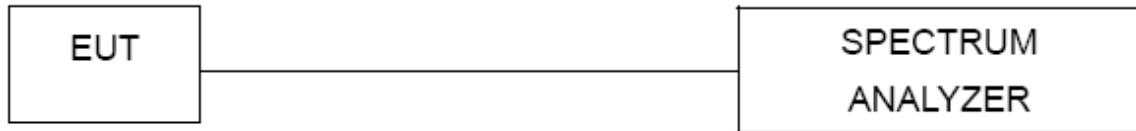
Test Mode:	TX(5.8G) - 802.11ax-HE40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.075	71.18	-20.24	50.94	74	-23.06	Pk
Vertical	4679.075	59.96	-20.24	39.72	54	-14.28	AV
Vertical	11510.079	61.38	-8.81	52.57	74	-21.43	Pk
Vertical	11510.079	49.66	-8.81	40.85	54	-13.15	AV
Vertical	17265.064	58.57	-3.01	55.56	68.2	-12.64	Pk
Vertical	17265.064	44.01	-3.01	41.00	54	-13.00	AV
Horizontal	4679.034	73.89	-20.24	53.65	74	-20.35	Pk
Horizontal	4679.034	59.02	-20.24	38.78	54	-15.22	AV
Horizontal	11510.170	60.44	-8.81	51.63	74	-22.37	Pk
Horizontal	11510.170	49.81	-8.81	41.00	54	-13.00	AV
Horizontal	17265.151	55.30	-3.01	52.29	68.2	-15.91	Pk
Horizontal	17265.151	44.34	-3.01	41.33	54	-12.67	AV
middle Channel (5795 MHz)-Above 1G							
Vertical	6039.047	71.54	-18.93	52.61	68.2	-15.59	Pk
Vertical	6039.047	59.20	-18.93	40.27	54	-13.73	AV
Vertical	11590.171	62.87	-8.87	54.00	74	-20.00	Pk
Vertical	11590.171	49.14	-8.87	40.27	54	-13.73	AV
Vertical	17385.157	55.44	-2.35	53.09	68.2	-15.11	Pk
Vertical	17385.157	44.93	-2.35	42.58	54	-11.42	AV
Horizontal	6039.002	73.72	-18.93	54.79	68.2	-13.41	Pk
Horizontal	6039.002	59.38	-18.93	40.44	54	-13.56	AV
Horizontal	11590.116	62.61	-8.87	53.74	74	-20.26	Pk
Horizontal	11590.116	49.80	-8.87	40.93	54	-13.07	AV
Horizontal	17385.168	57.57	-2.35	55.22	68.2	-12.98	Pk
Horizontal	17385.168	44.26	-2.35	41.91	54	-12.09	AV

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

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

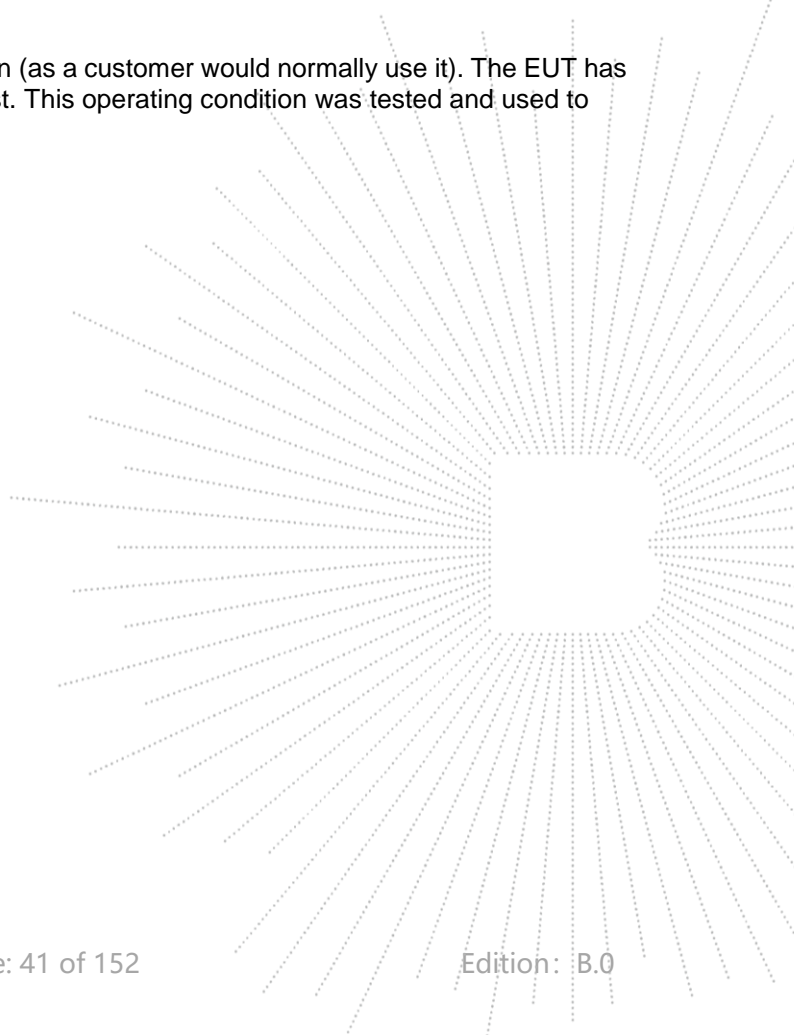
For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of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

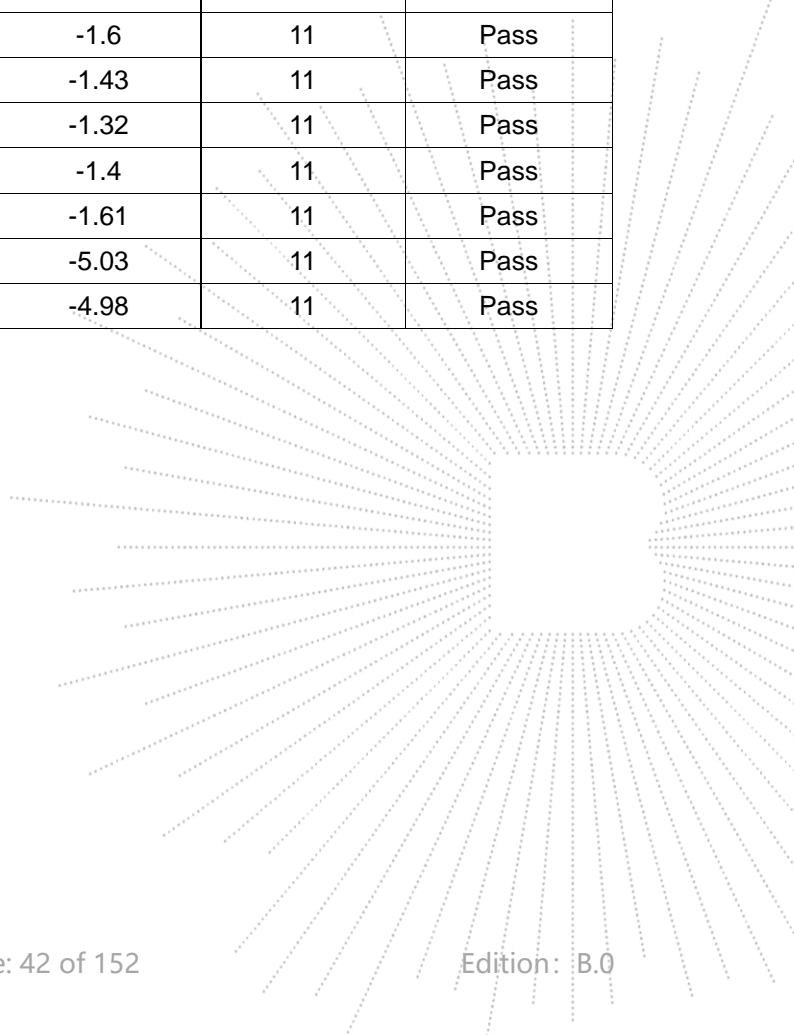
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

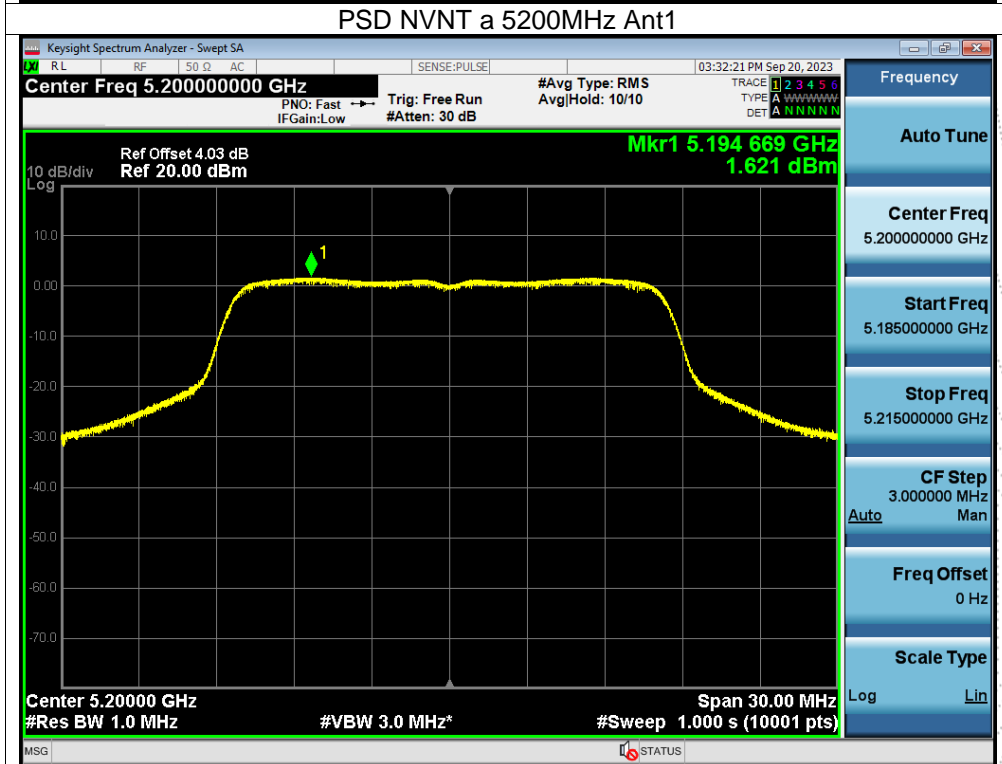
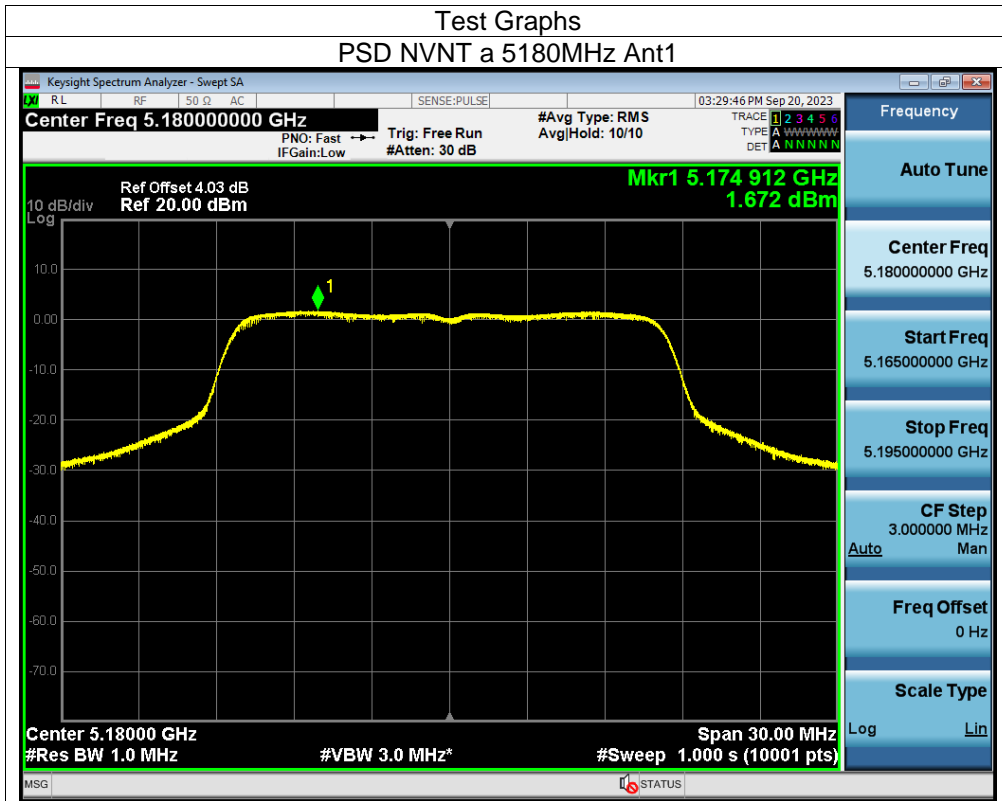


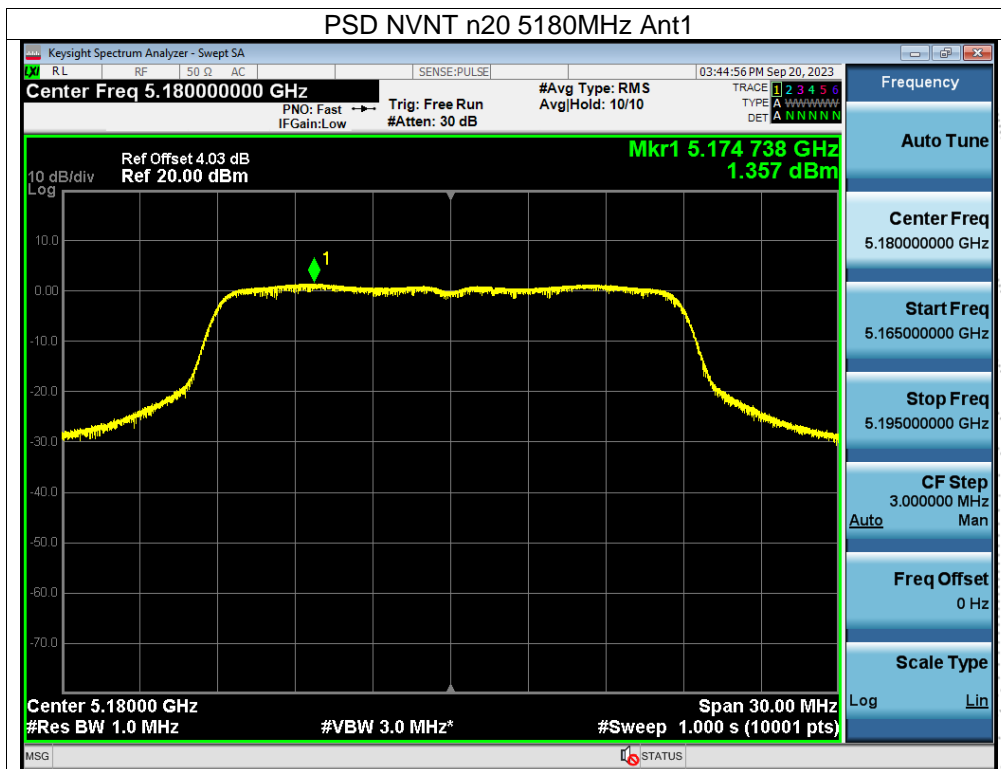
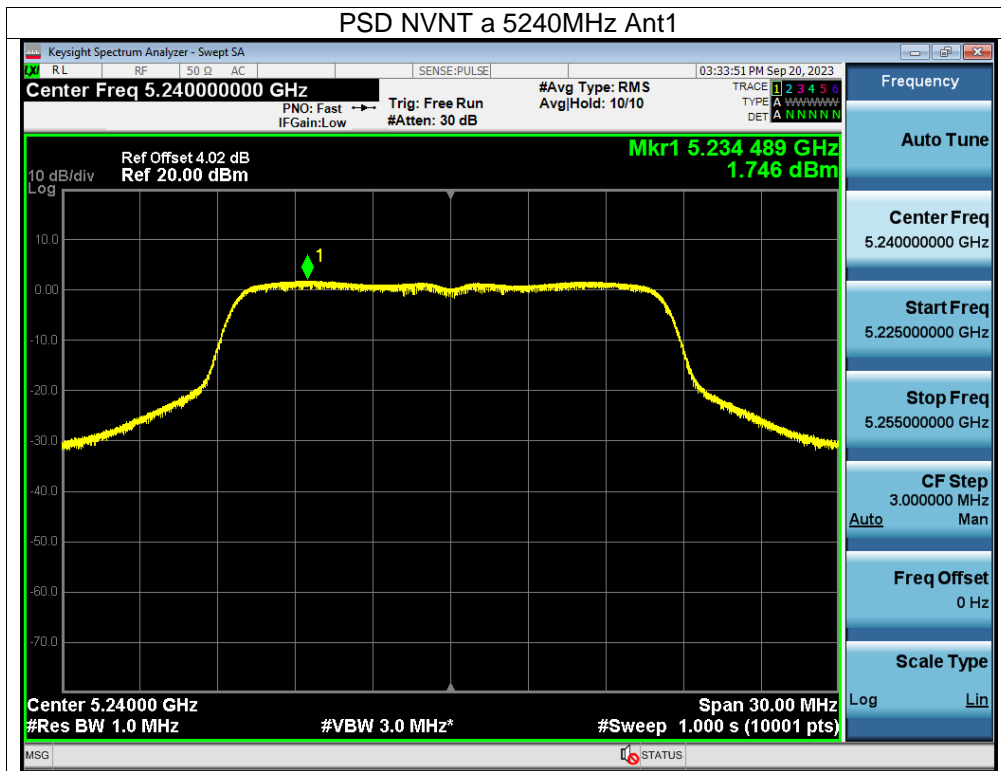
8.5 Test Result

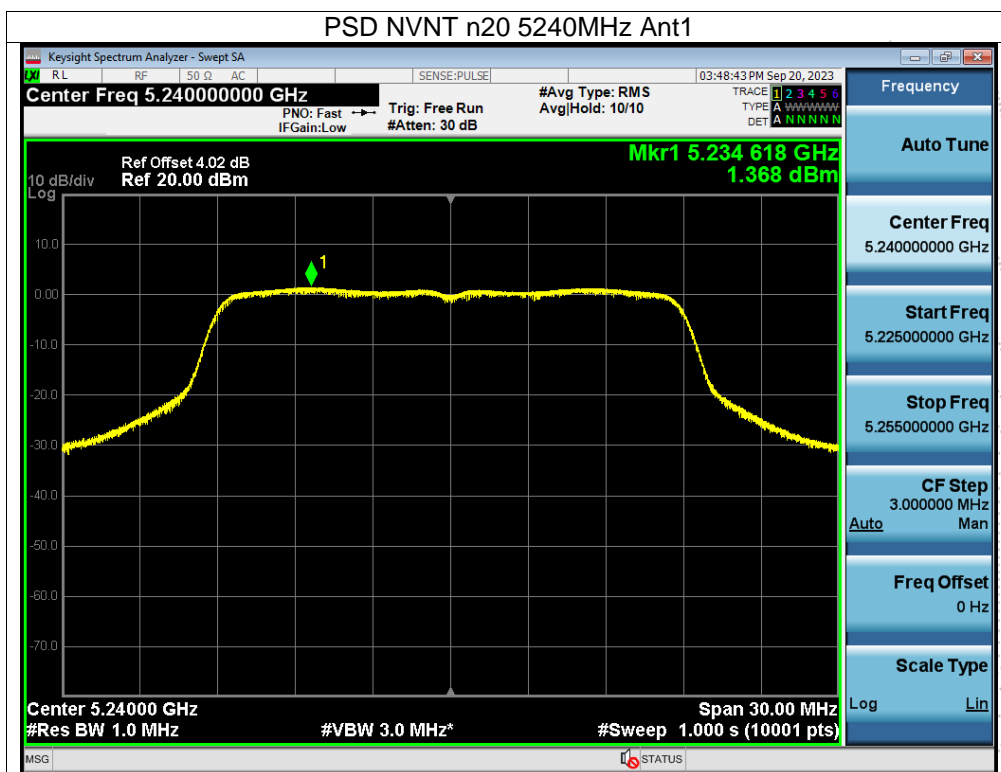
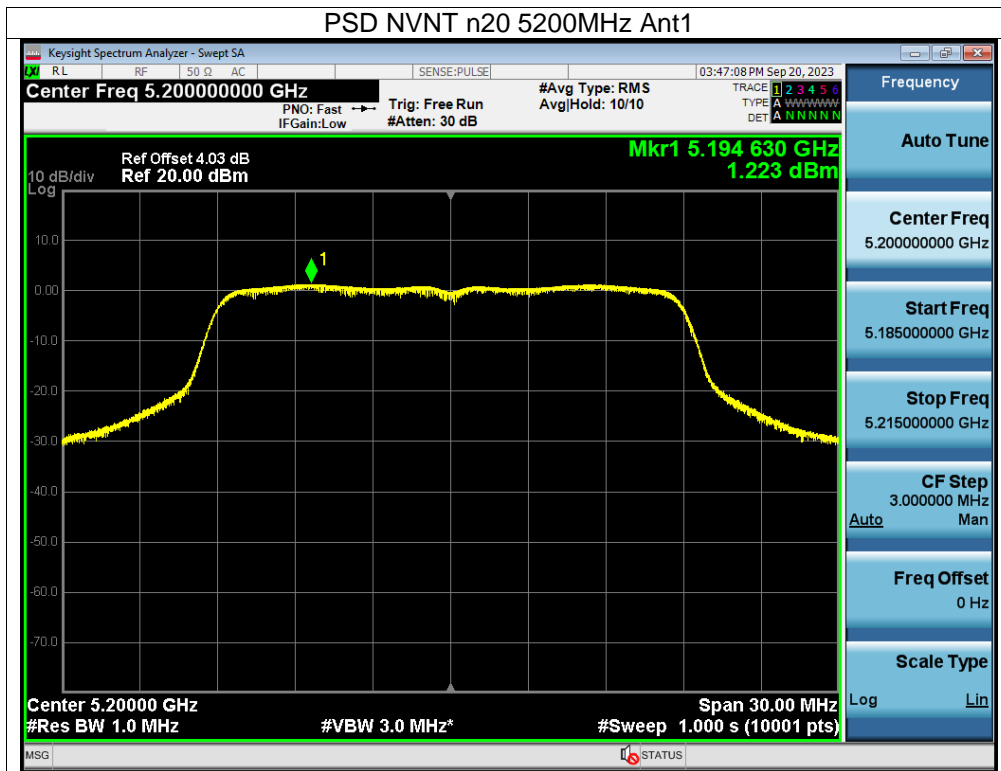
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.8V
Test Mode:	(5180-5240MHz)		

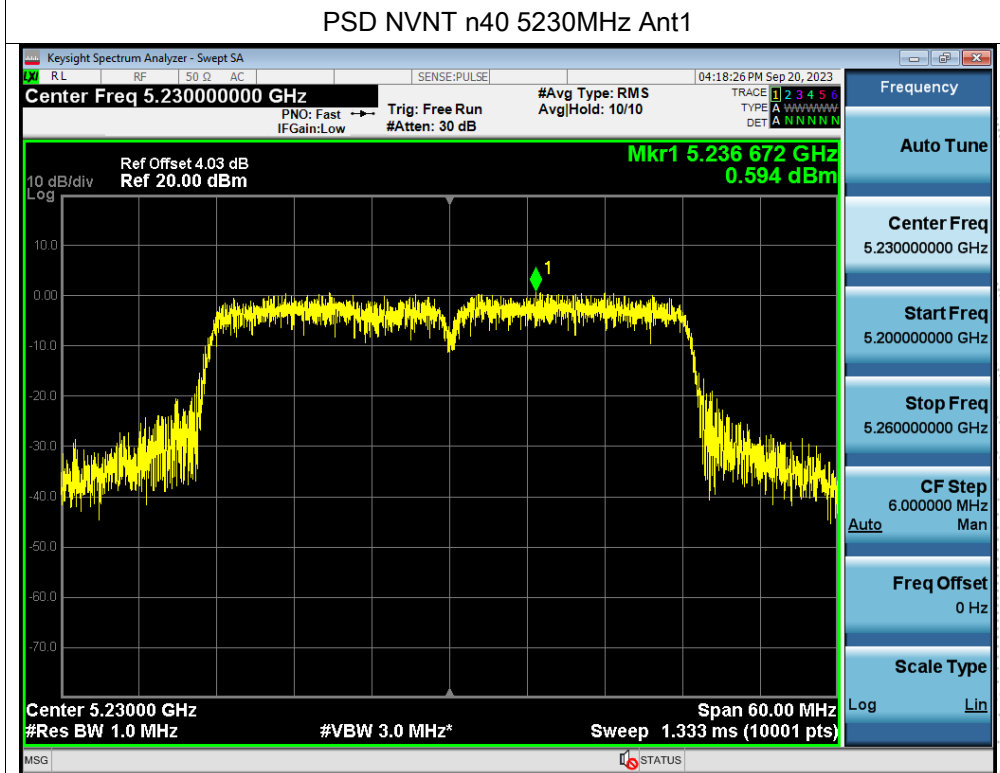
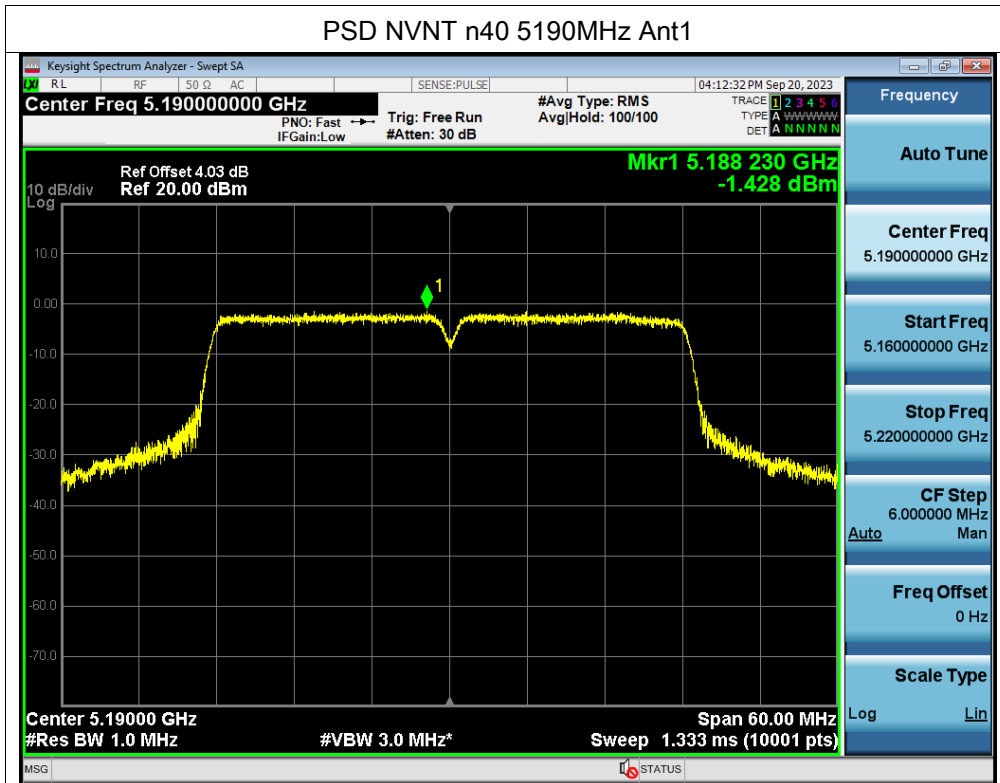
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	1.67	11	Pass
NVNT	a	5200	1.62	11	Pass
NVNT	a	5240	1.75	11	Pass
NVNT	n20	5180	1.36	11	Pass
NVNT	n20	5200	1.22	11	Pass
NVNT	n20	5240	1.37	11	Pass
NVNT	n40	5190	-1.43	11	Pass
NVNT	n40	5230	0.59	11	Pass
NVNT	ac20	5180	1.39	11	Pass
NVNT	ac20	5200	1.25	11	Pass
NVNT	ac20	5240	1.46	11	Pass
NVNT	ac40	5190	-1.6	11	Pass
NVNT	ac40	5230	-1.43	11	Pass
NVNT	ax20	5180	-1.32	11	Pass
NVNT	ax20	5200	-1.4	11	Pass
NVNT	ax20	5240	-1.61	11	Pass
NVNT	ax40	5190	-5.03	11	Pass
NVNT	ax40	5230	-4.98	11	Pass

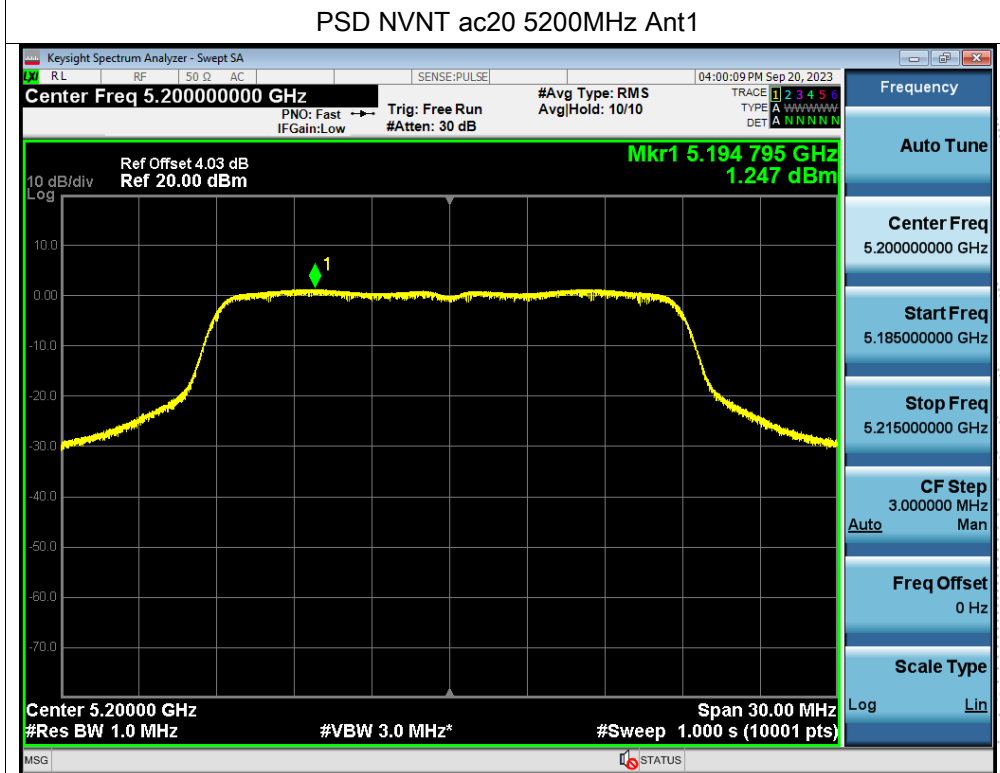
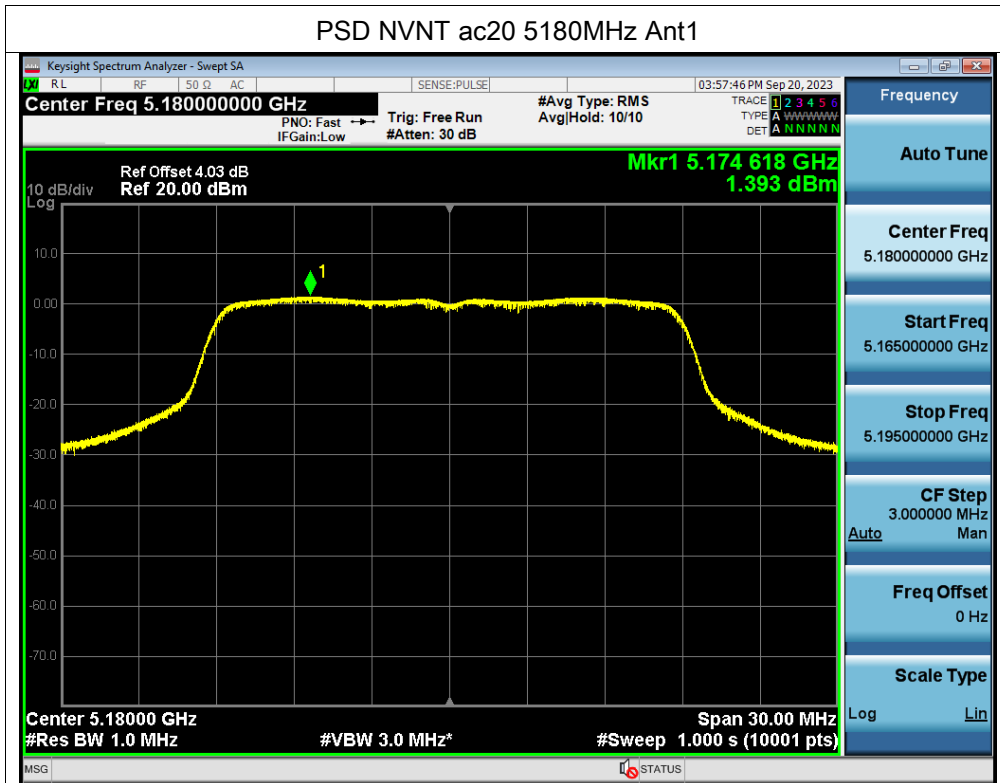


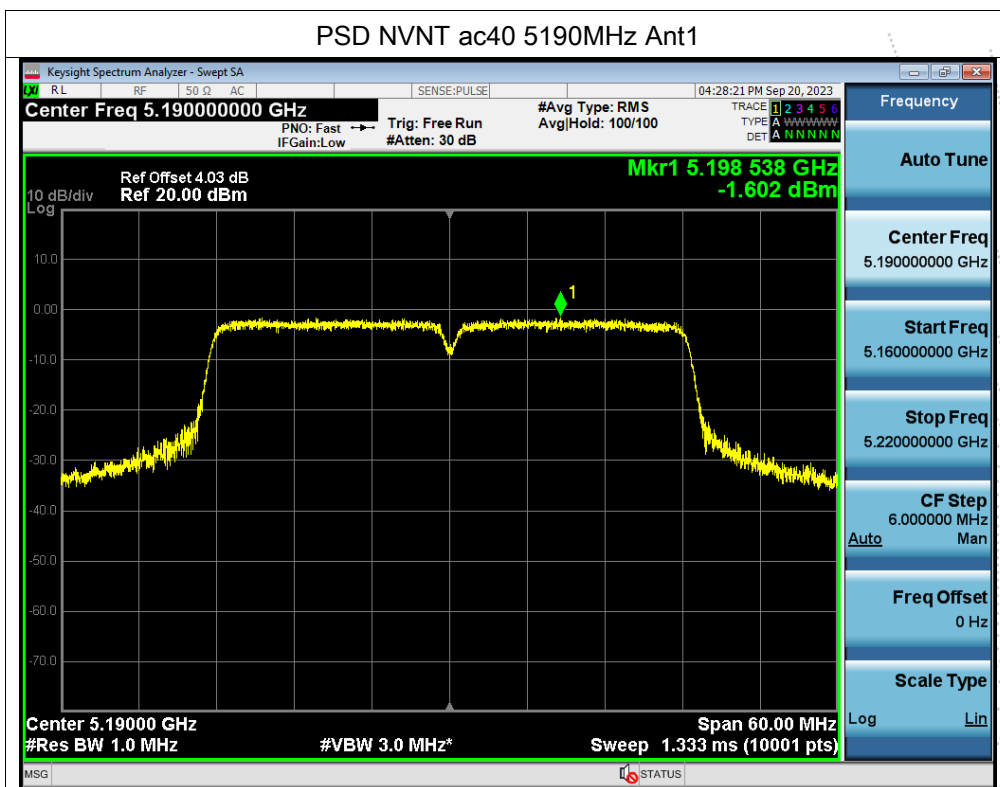
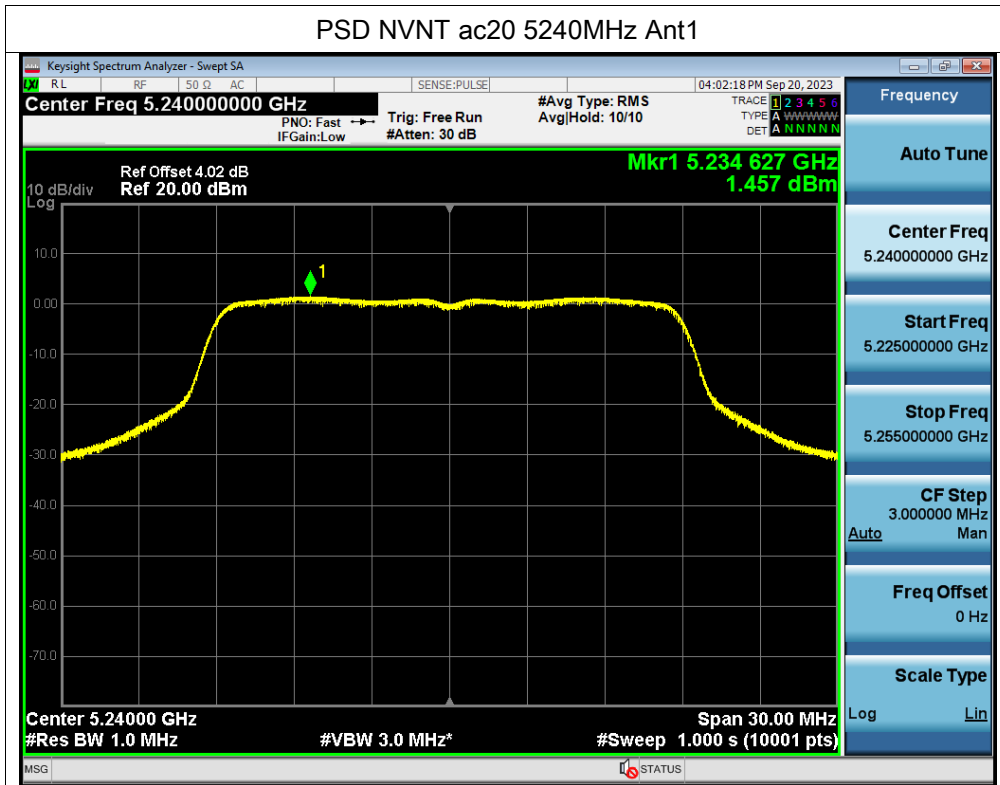


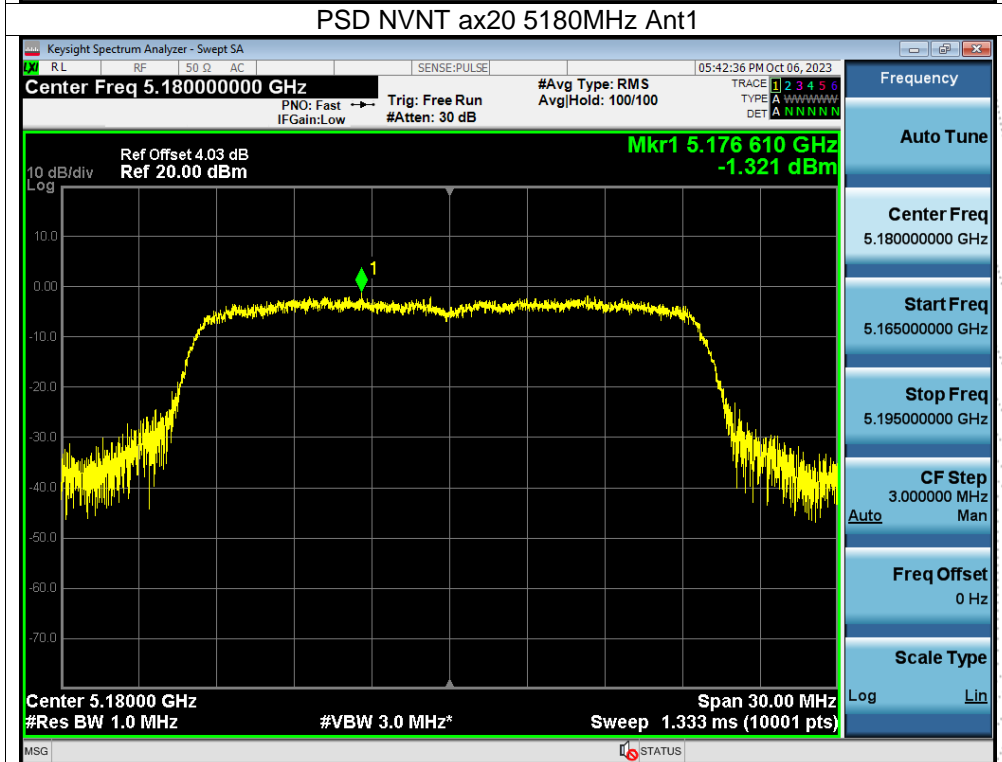
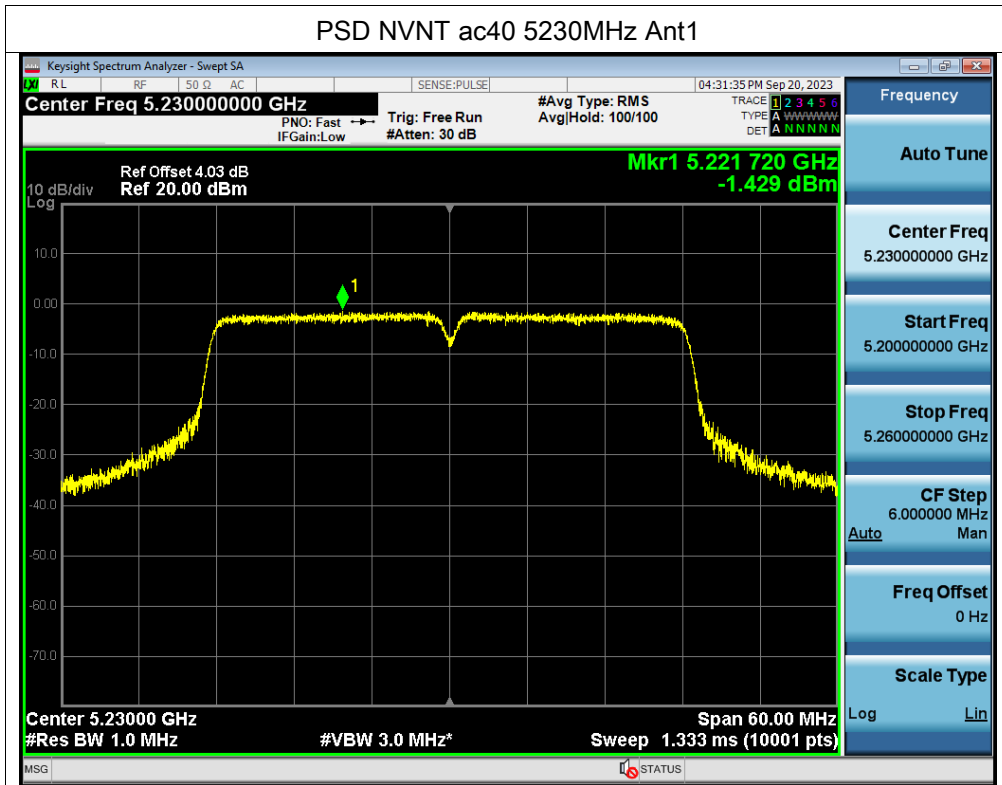


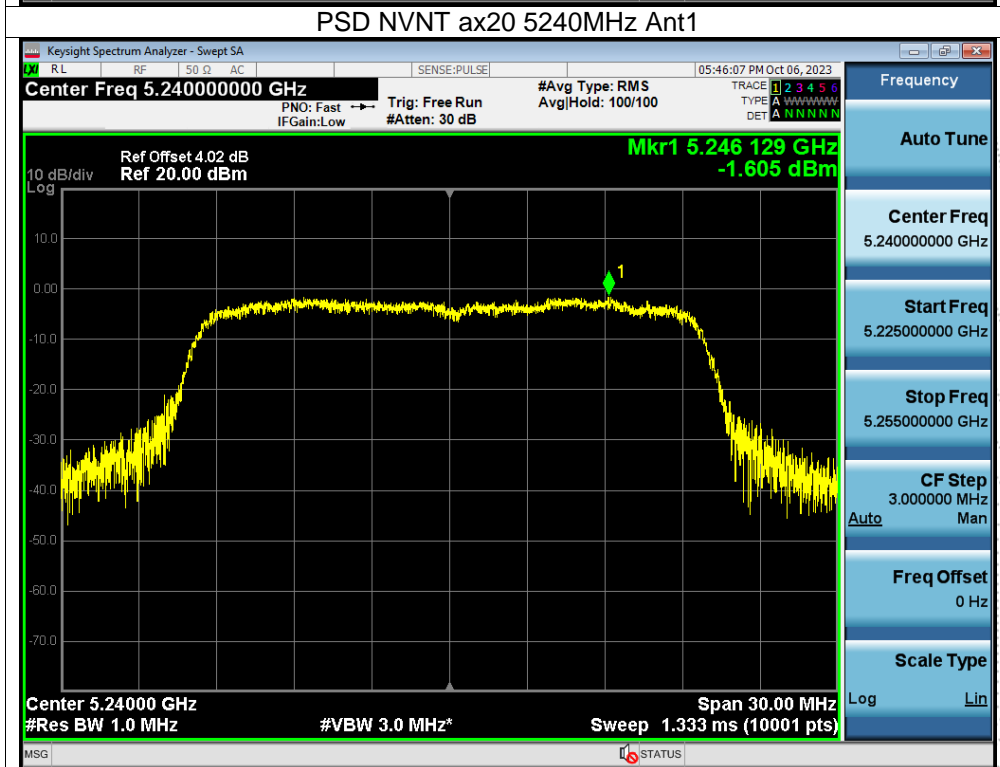
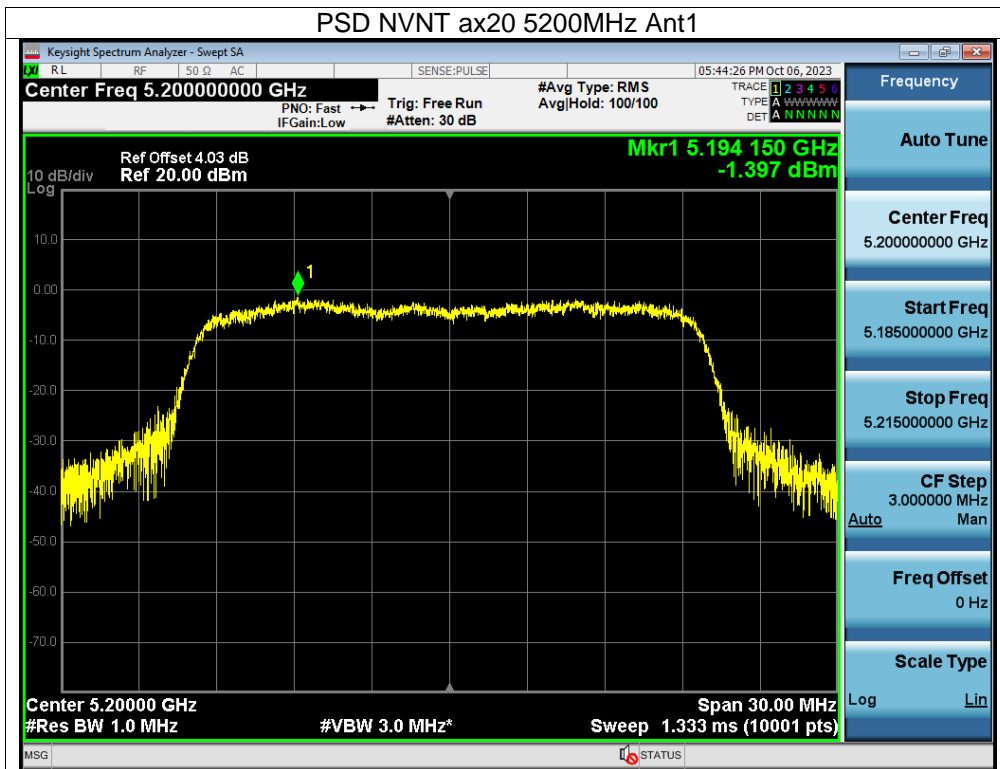


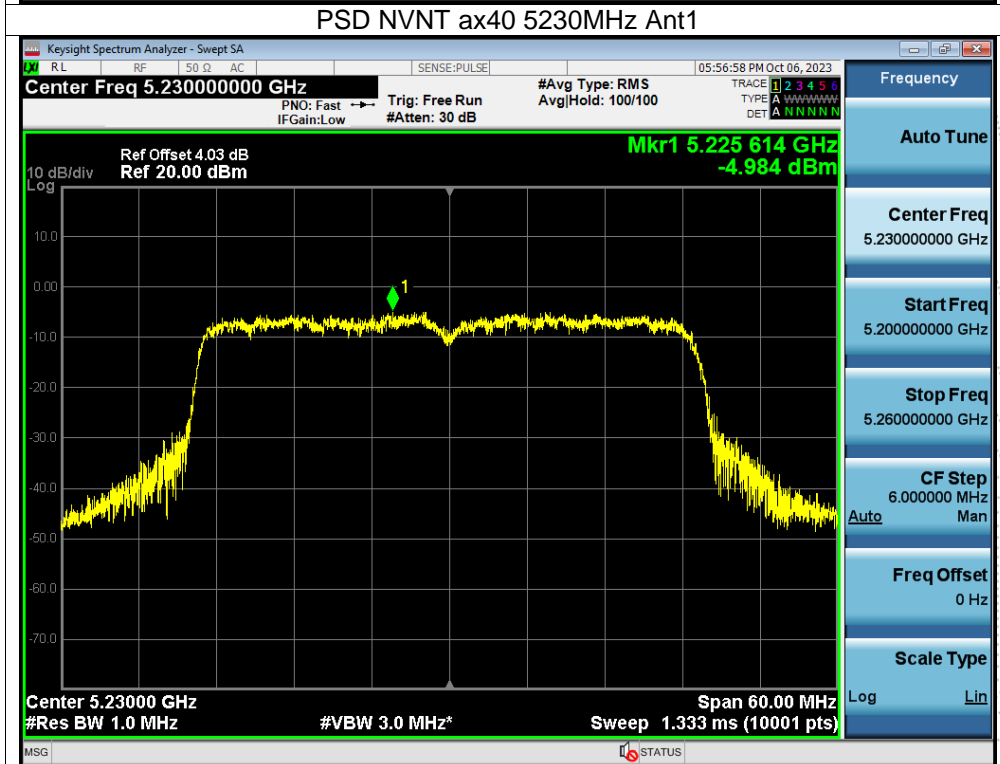
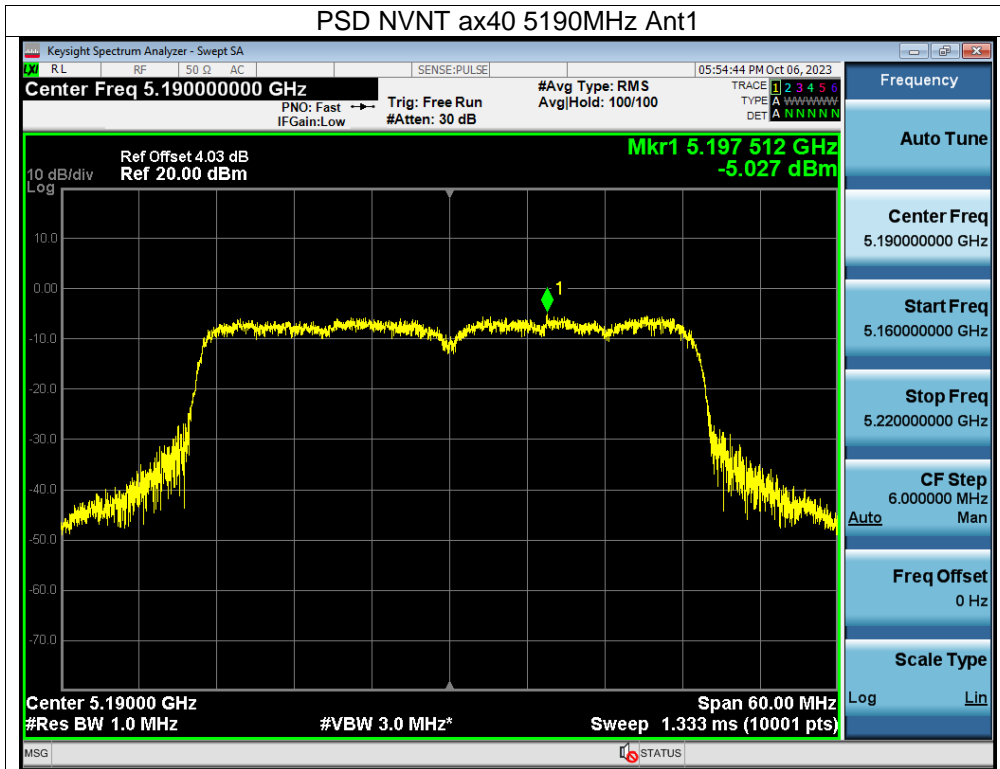












Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.8V
Test Mode:	(5745-5825MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5745	-3.98	30	Pass
NVNT	a	5785	-3.9	30	Pass
NVNT	a	5825	-4.12	30	Pass
NVNT	n20	5745	-4.29	30	Pass
NVNT	n20	5785	-4.2	30	Pass
NVNT	n20	5825	-4.47	30	Pass
NVNT	n40	5755	-7.23	30	Pass
NVNT	n40	5795	-7.25	30	Pass
NVNT	ac20	5745	-3.49	30	Pass
NVNT	ac20	5785	-4.1	30	Pass
NVNT	ac20	5825	-3.76	30	Pass
NVNT	ac40	5755	-5.46	30	Pass
NVNT	ac40	5795	-7.18	30	Pass
NVNT	ax20	5745	-5.36	30	Pass
NVNT	ax20	5785	-5.13	30	Pass
NVNT	ax20	5825	-6.15	30	Pass
NVNT	ax40	5755	-8.69	30	Pass
NVNT	ax40	5795	-8.41	30	Pass

