

TEST REPORT

Report No.: BCTC2507978129-4E

Applicant: TEEPTRAK

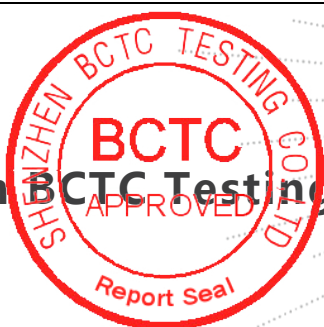
Product Name: Tablette android

Test Model: V4

Tested Date: 2025-07-30 to 2025-09-03

Issued Date: 2025-09-03

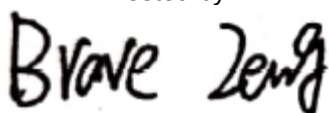
Shenzhen **BCTC** Testing Co., Ltd.



FCC ID: 2BRKZ-V4

Product Name: Tablette android
Trademark: N/A
Model/Type reference: V4
Prepared For: TEEPTRAK
Address: 106 RUE DU CHEMIN VERT, 75011 PARIS
Manufacturer: TEEPTRAK
Address: 106 RUE DU CHEMIN VERT, 75011 PARIS
Prepared By: 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
Sample Received Date: 2025-07-30
Sample tested Date: 2025-07-30 to 2025-09-03
Issue Date: 2025-09-03
Report No.: BCTC2507978129-4E
Test Standards: FCC Part15 15.407
ANSI C63.10-2013
KDB 789033 D02 v02r01
Test Results: PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

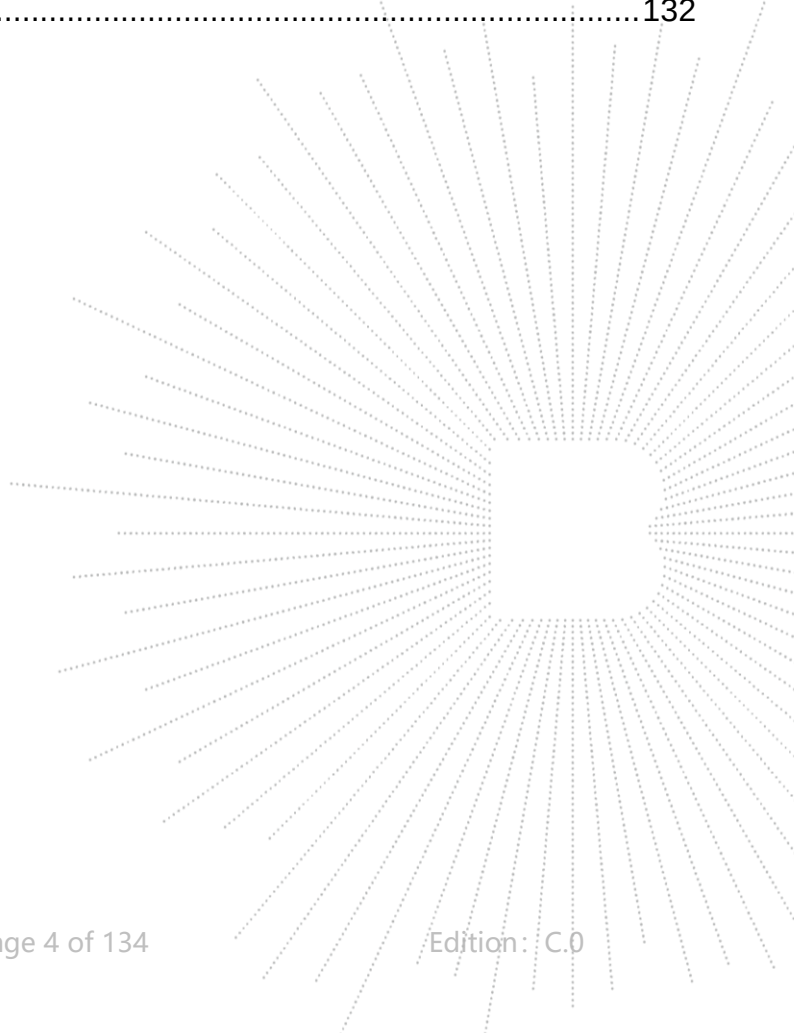
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2507978129-4E	2025-09-03	Original	Valid

2. Test Summary

The Product has been tested according to the following specifications:

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

3. Measurement Uncertainty

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

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

4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	V4
Model differences:	N/A
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN Mode Supported:	802.11a/n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth) 5180-5240MHz for 802.11a/n/ac(HT20); 5190-5230MHz for 802.11n/ac(HT40); 5210MHz for 802.11 ac(HT80);
Operation Frequency:	5745-5825 MHz for 802.11a/n/ac(HT20); 5755-5795 MHz for 802.11n/ac(HT40); 5775MHz for 802.11 ac(HT80);
Data Rate:	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac (VHT20): NSS1, MCS0-MCS8 802.11ac (VHT40/VHT80):NSS1, MCS0-MCS9
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac; 4 channels for 802.11a/n20/ac20 in the 5180-5240MHz band ; 2 channels for 802.11 n40/ac40 in the 5190-5230MHz band ;
Number Of Channel:	1 channels for 802.11 ac80 in the 5210MHz band ; 5 channels for 802.11a/n20/ac20 in the 5745-5825MHz band ; 2 channels for 802.11 n40/ac40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band
Antenna installation:	External antenna 4.6412 dBi
Antenna Gain:	Remark: ☒ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☐ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Ratings:	DC 24V from adapter/DC 7.4V from battery
Adapter Information:	MODEL: D130A2-240002000 INPUT: 100-240V~50/60Hz 1.5A OUTPUT: DC 24.00V 2000mA 48.0W

4.2 Test Setup Configuration

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

4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Tablette android	N/A	V4	N/A	EUT
E-2	Adapter	N/A	D130A2-240002 000	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0M	DC cable unshielded

Notes:

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

4.4 Channel List

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

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

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

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

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

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	-	-	-	-

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

4.5 Test Mode

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

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

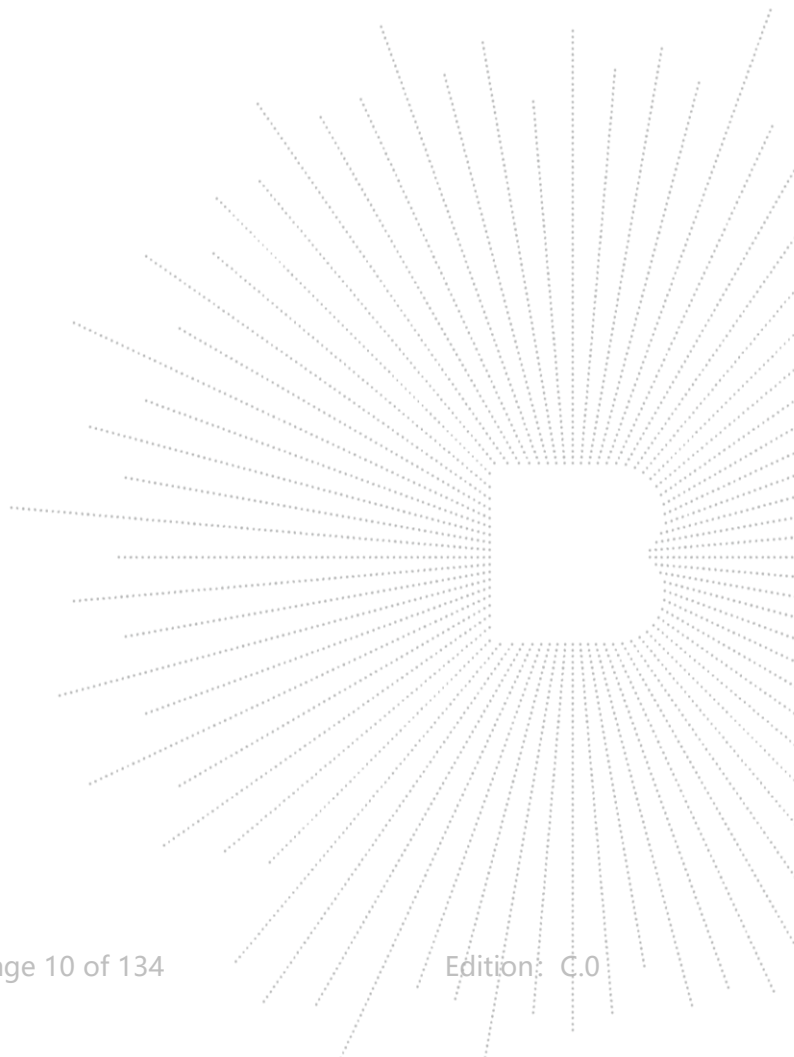
Note:

1. The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
2. We're testing antenna A data.

4.6 Table Of Parameters Of Test 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

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

5.2 Test Instrument Used

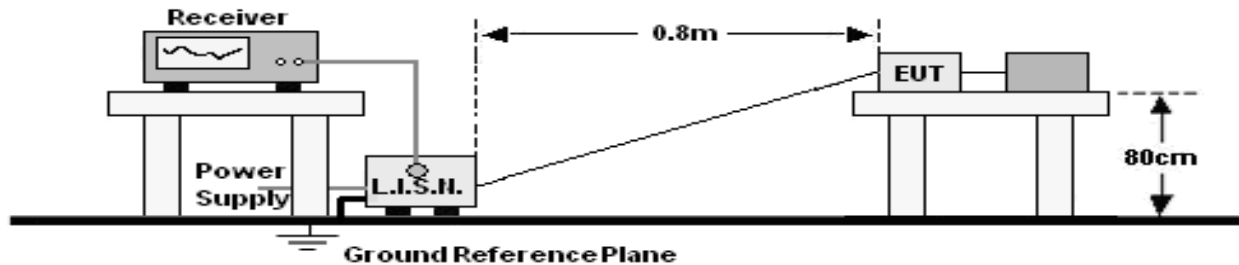
Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 08, 2025	May 07, 2026
LISN	R&S	ENV216	101375	May 14, 2025	May 13, 2026
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 14, 2025	May 13, 2026

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 14, 2025	May 13, 2026
Power Sensor (AV)	Keysight	E9300A	\	May 14, 2025	May 13, 2026
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 14, 2025	May 13, 2026
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 14, 2025	May 13, 2026
Radio frequency control box	MAIWEI	MW100-RFC B	\	\	\
Software	MAIWEI	MTS 8310	\	\	\

Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 08, 2025	May 07, 2026
Receiver	R&S	ESR3P	101154	May 14, 2025	May 13, 2026
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 14, 2025	May 13, 2026
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 24, 2025	May 23, 2026
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 24, 2025	May 23, 2026
Amplifier	SKET	LAPA_01G18 G-45dB	SK2021040901	May 14, 2025	May 13, 2026
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 24, 2025	May 23, 2026
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 24, 2025	May 23, 2026
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 24, 2025	May 23, 2026
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 14, 2025	May 13, 2026
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

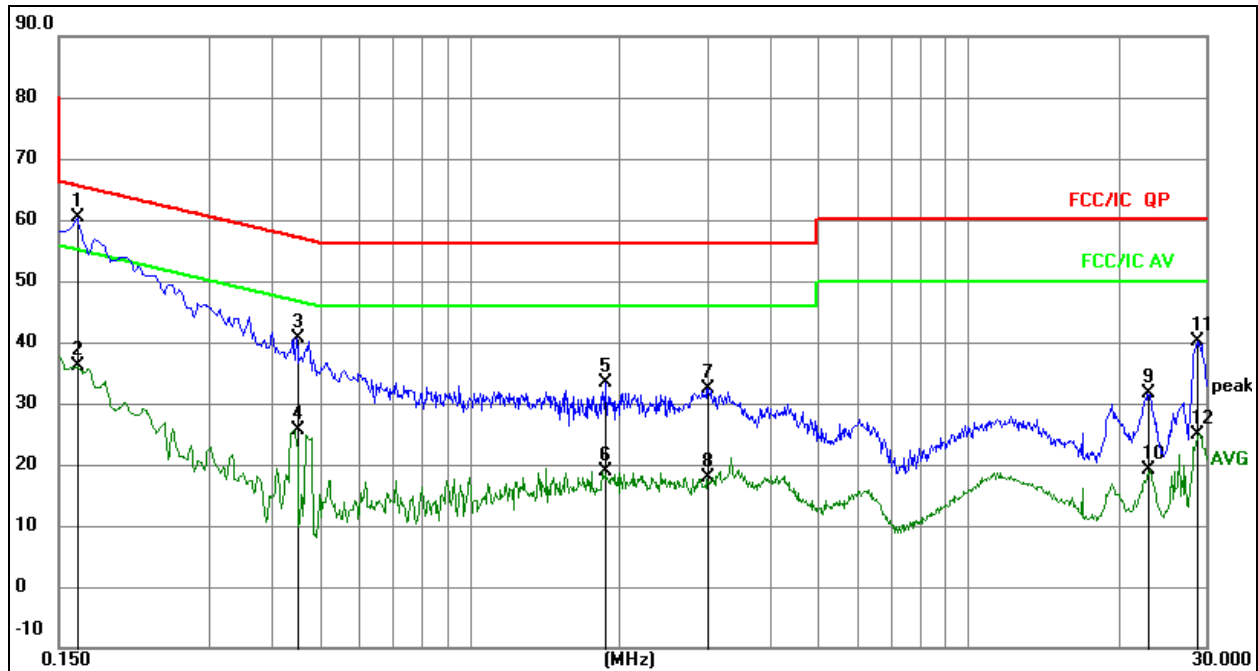
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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:	24 °C	Relative Humidity:	50 %
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz

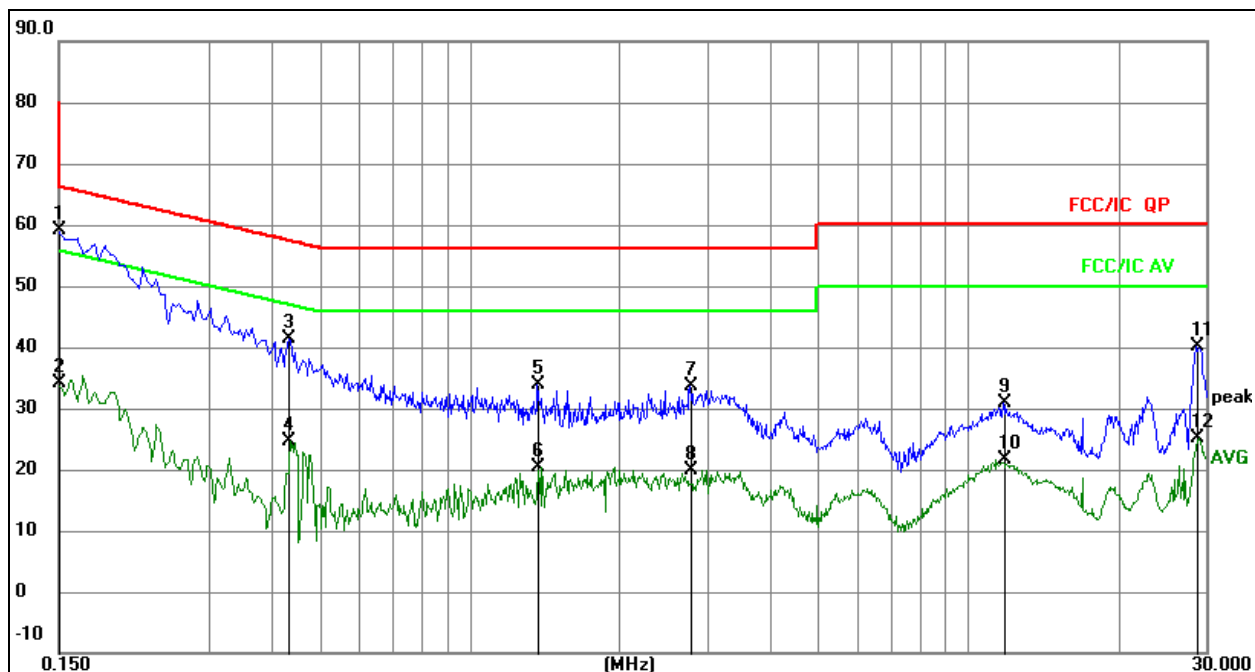


Remark:

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.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz		dB	dBuV	dBuV	dB	
1	*	0.1633	40.29	20.04	60.33	65.29	-4.96	QP
2		0.1633	16.01	20.04	36.05	55.29	-19.24	AVG
3		0.4492	20.49	20.06	40.55	56.89	-16.34	QP
4		0.4492	5.59	20.06	25.65	46.89	-21.24	AVG
5		1.8680	13.07	20.19	33.26	56.00	-22.74	QP
6		1.8680	-1.31	20.19	18.88	46.00	-27.12	AVG
7		2.9935	12.10	20.39	32.49	56.00	-23.51	QP
8		2.9935	-2.56	20.39	17.83	46.00	-28.17	AVG
9		22.8965	7.79	23.94	31.73	60.00	-28.27	QP
10		22.8965	-4.79	23.94	19.15	50.00	-30.85	AVG
11		28.7550	15.56	24.65	40.21	60.00	-19.79	QP
12		28.7550	0.32	24.65	24.97	50.00	-25.03	AVG

Temperature:	24 °C	Relative Humidity:	50 %
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



Remark:

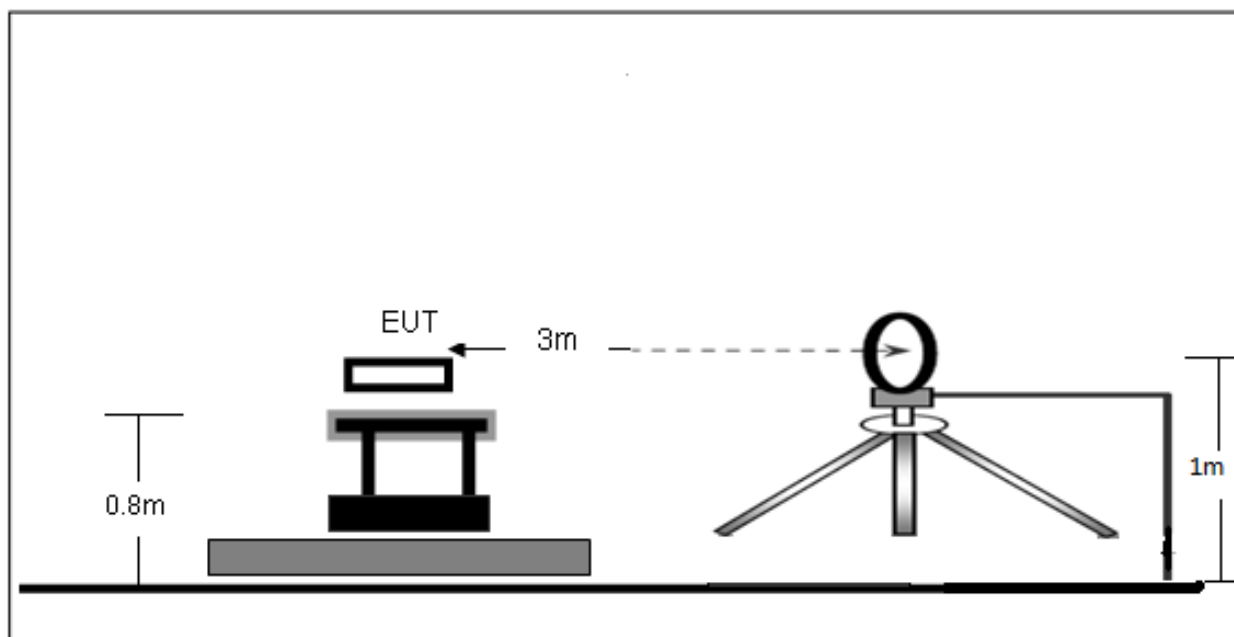
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over1 Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1	*	0.1500	39.01	20.04	59.05	66.00	-6.95	QP
2		0.1500	13.97	20.04	34.01	56.00	-21.99	AVG
3		0.4335	21.34	20.06	41.40	57.19	-15.79	QP
4		0.4335	4.67	20.06	24.73	47.19	-22.46	AVG
5		1.3695	13.59	20.24	33.83	56.00	-22.17	QP
6		1.3695	0.02	20.24	20.26	46.00	-25.74	AVG
7		2.7780	13.17	20.35	33.52	56.00	-22.48	QP
8		2.7780	-0.39	20.35	19.96	46.00	-26.04	AVG
9		11.7825	9.13	21.75	30.88	60.00	-29.12	QP
10		11.7825	-0.04	21.75	21.71	50.00	-28.29	AVG
11		28.6980	15.53	24.64	40.17	60.00	-19.83	QP
12		28.6980	0.46	24.64	25.10	50.00	-24.90	AVG

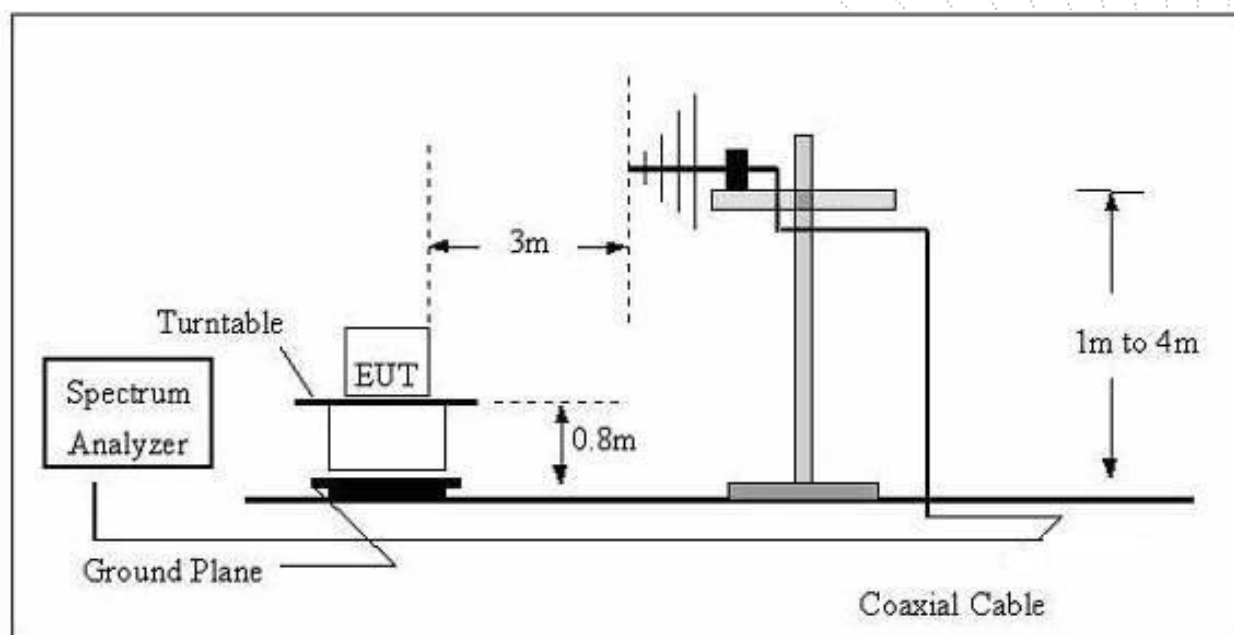
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

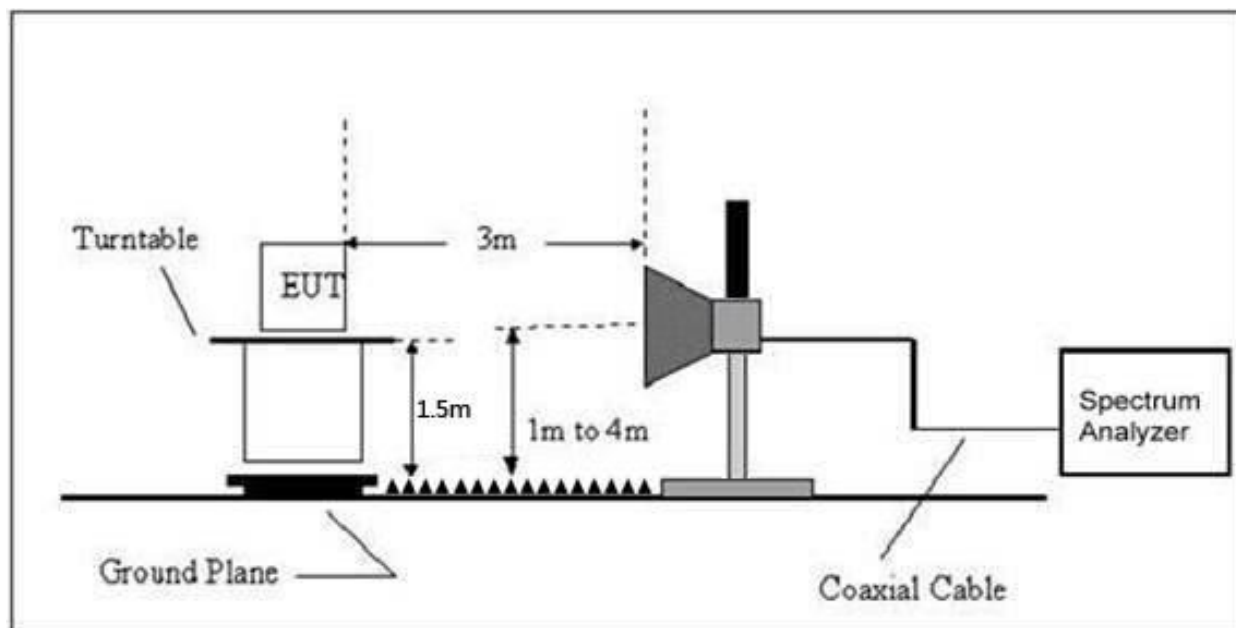
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



7.2 Limit

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

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

Limits Of Radiated Emission Measurement (Above 1000MHz)

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

Notes:

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

7.3 Test Procedure

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

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

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

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

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

Note:

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

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

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

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

7.4 EUT Operating Conditions

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

7.5 Test Result

Below 30MHz

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

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

Note:

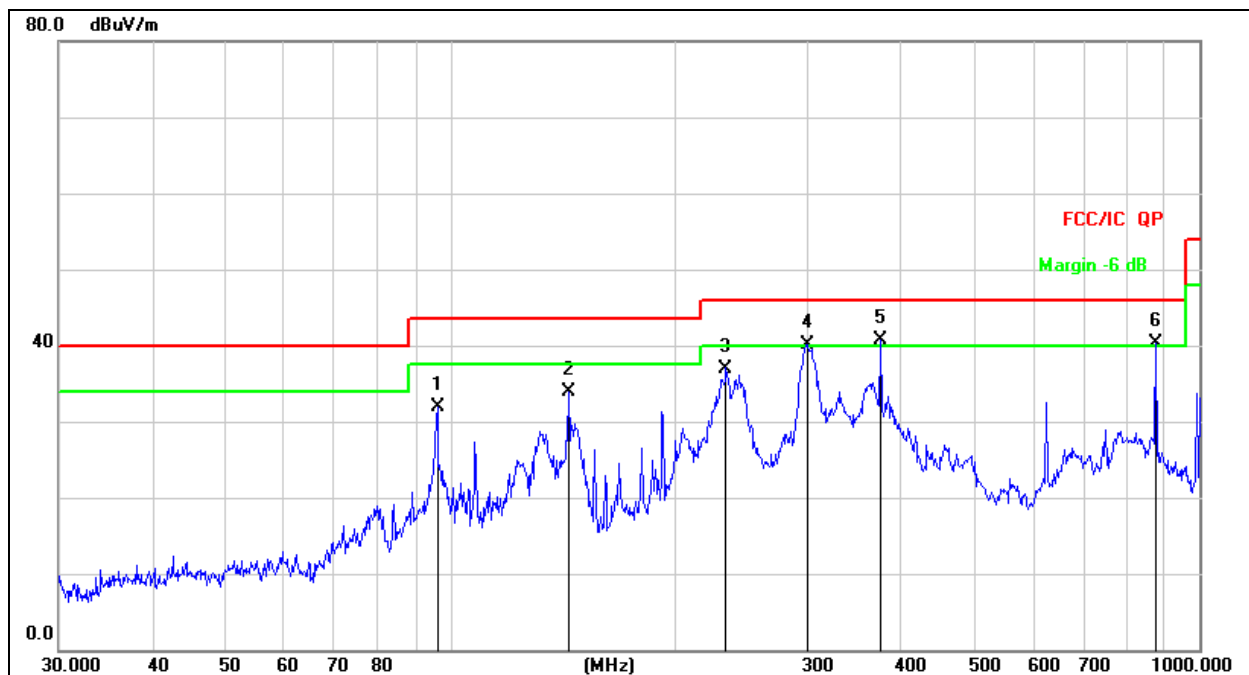
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

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

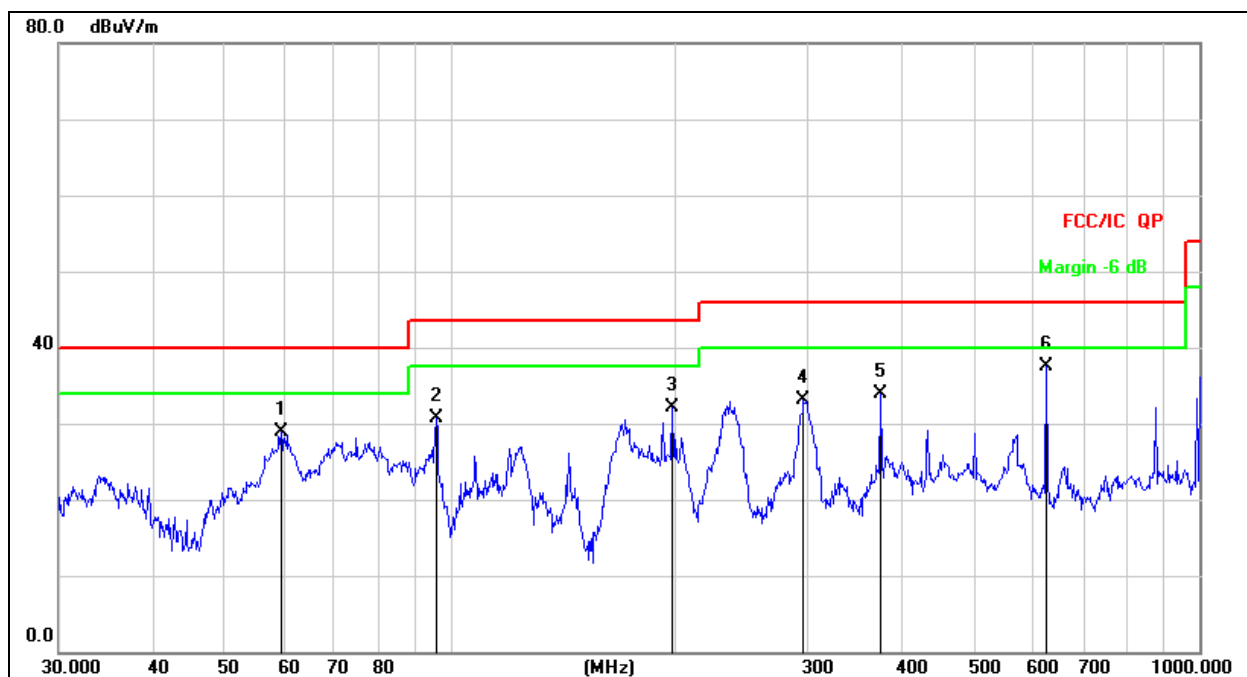


Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		96.0986	46.83	-14.93	31.90	43.50	-11.60	QP
2		143.8295	51.13	-17.25	33.88	43.50	-9.62	QP
3		233.3487	50.60	-13.60	37.00	46.00	-9.00	QP
4	!	300.3672	52.19	-11.99	40.20	46.00	-5.80	QP
5	*	375.9385	50.82	-10.03	40.79	46.00	-5.21	QP
6	!	875.2470	41.98	-1.62	40.36	46.00	-5.64	QP

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



Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		59.4405	43.59	-14.60	28.99	40.00	-11.01	QP
2		95.7622	45.74	-14.95	30.79	43.50	-12.71	QP
3		197.8928	46.56	-14.53	32.03	43.50	-11.47	QP
4		296.1836	45.25	-12.09	33.16	46.00	-12.84	QP
5		375.9385	44.02	-10.03	33.99	46.00	-12.01	QP
6	*	625.0780	42.82	-5.27	37.55	46.00	-8.45	QP

Between 1GHz – 40GHz

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	4434.060	72.72	-20.73	51.99	68.20	-16.21	PK
Vertical	4434.060	59.29	-20.73	38.56	54.00	-15.44	AV
Vertical	10360.068	62.04	-9.36	52.68	68.20	-15.52	PK
Vertical	10360.068	49.74	-9.36	40.38	54.00	-13.62	AV
Vertical	15540.062	61.27	-7.84	53.43	74.00	-20.57	PK
Vertical	15540.062	49.04	-7.84	41.20	54.00	-12.80	AV
Horizontal	4434.025	71.31	-20.73	50.58	68.20	-17.62	PK
Horizontal	4434.025	59.86	-20.73	39.13	54.00	-14.87	AV
Horizontal	10360.086	61.33	-9.36	51.97	68.20	-16.23	PK
Horizontal	10360.086	49.94	-9.36	40.58	54.00	-13.42	AV
Horizontal	15540.193	61.96	-7.84	54.12	74.00	-19.88	PK
Horizontal	15540.193	49.08	-7.84	41.24	54.00	-12.76	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.166	71.07	-20.42	50.65	74.00	-23.35	PK
Vertical	4592.166	59.45	-20.42	39.03	54.00	-14.97	AV
Vertical	10400.141	60.75	-9.30	51.45	68.20	-16.75	PK
Vertical	10400.141	49.99	-9.30	40.69	54.00	-13.31	AV
Vertical	15600.098	64.85	-7.82	57.03	74.00	-16.97	PK
Vertical	15600.098	49.68	-7.82	41.86	54.00	-12.14	AV
Horizontal	4592.091	70.61	-20.42	50.19	74.00	-23.81	PK
Horizontal	4592.091	59.67	-20.42	39.25	54.00	-14.75	AV
Horizontal	10400.061	62.38	-9.30	53.08	68.20	-15.12	PK
Horizontal	10400.061	49.48	-9.30	40.18	54.00	-13.82	AV
Horizontal	15600.018	61.90	-7.82	54.08	74.00	-19.92	PK
Horizontal	15600.018	49.46	-7.82	41.64	54.00	-12.36	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.016	73.93	-20.12	53.81	74.00	-20.19	PK
Vertical	4739.016	59.11	-20.12	38.99	54.00	-15.01	AV
Vertical	10480.059	61.95	-9.18	52.77	68.20	-15.43	PK
Vertical	10480.059	49.80	-9.18	40.62	54.00	-13.38	AV
Vertical	15720.177	64.53	-7.78	56.75	74.00	-17.25	PK
Vertical	15720.177	49.20	-7.78	41.42	54.00	-12.58	AV
Horizontal	4739.030	71.17	-20.12	51.05	74.00	-22.95	PK
Horizontal	4739.030	59.45	-20.12	39.33	54.00	-14.67	AV
Horizontal	10480.007	62.60	-9.18	53.42	68.20	-14.78	PK
Horizontal	10480.007	49.16	-9.18	39.98	54.00	-14.02	AV
Horizontal	15720.191	64.69	-7.78	56.91	74.00	-17.09	PK
Horizontal	15720.191	49.52	-7.78	41.74	54.00	-12.26	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	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	4434.119	73.18	-20.73	52.45	68.20	-15.75	PK
Vertical	4434.119	59.66	-20.73	38.93	54.00	-15.07	AV
Vertical	10360.161	61.95	-9.36	52.59	68.20	-15.61	PK
Vertical	10360.161	49.50	-9.36	40.14	54.00	-13.86	AV
Vertical	15540.195	60.23	-7.84	52.39	74.00	-21.61	PK
Vertical	15540.195	49.18	-7.84	41.34	54.00	-12.66	AV
Horizontal	4434.008	73.45	-20.73	52.72	68.20	-15.48	PK
Horizontal	4434.008	59.26	-20.73	38.53	54.00	-15.47	AV
Horizontal	10360.119	60.99	-9.36	51.63	68.20	-16.57	PK
Horizontal	10360.119	49.52	-9.36	40.16	54.00	-13.84	AV
Horizontal	15540.049	64.53	-7.84	56.69	74.00	-17.31	PK
Horizontal	15540.049	49.48	-7.84	41.64	54.00	-12.36	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.083	73.07	-20.42	52.66	74.00	-21.34	PK
Vertical	4592.083	59.55	-20.42	39.13	54.00	-14.87	AV
Vertical	10400.187	64.12	-9.30	54.82	68.20	-13.38	PK
Vertical	10400.187	49.85	-9.30	40.55	54.00	-13.45	AV
Vertical	15600.014	61.08	-7.82	53.26	74.00	-20.74	PK
Vertical	15600.014	49.99	-7.82	42.17	54.00	-11.83	AV
Horizontal	4592.121	70.54	-20.42	50.12	74.00	-23.88	PK
Horizontal	4592.121	59.78	-20.42	39.36	54.00	-14.64	AV
Horizontal	10400.011	64.08	-9.30	54.78	68.20	-13.42	PK
Horizontal	10400.011	49.22	-9.30	39.92	54.00	-14.08	AV
Horizontal	15600.120	63.37	-7.82	55.55	74.00	-18.45	PK
Horizontal	15600.120	49.63	-7.82	41.81	54.00	-12.19	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.066	74.83	-20.12	54.71	74.00	-19.29	PK
Vertical	4739.066	59.75	-20.12	39.63	54.00	-14.37	AV
Vertical	10480.065	61.77	-9.18	52.59	68.20	-15.61	PK
Vertical	10480.065	49.29	-9.18	40.11	54.00	-13.89	AV
Vertical	15720.119	62.59	-7.78	54.81	74.00	-19.19	PK
Vertical	15720.119	49.23	-7.78	41.45	54.00	-12.55	AV
Horizontal	4739.124	72.76	-20.12	52.64	74.00	-21.36	PK
Horizontal	4739.124	59.08	-20.12	38.95	54.00	-15.05	AV
Horizontal	10480.027	61.90	-9.18	52.72	68.20	-15.48	PK
Horizontal	10480.027	49.83	-9.18	40.65	54.00	-13.35	AV
Horizontal	15720.058	60.25	-7.78	52.47	74.00	-21.53	PK
Horizontal	15720.058	49.45	-7.78	41.67	54.00	-12.33	AV

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

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

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

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

Test Mode:	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	4434.103	74.83	-20.73	54.09	68.20	-14.11	PK
Vertical	4434.103	59.96	-20.73	39.23	54.00	-14.77	AV
Vertical	10380.180	62.66	-9.33	53.33	68.20	-14.87	PK
Vertical	10380.180	49.73	-9.33	40.40	54.00	-13.60	AV
Vertical	15570.165	61.92	-7.83	54.09	74.00	-19.91	PK
Vertical	15570.165	49.39	-7.83	41.56	54.00	-12.44	AV
Horizontal	4434.059	73.73	-20.73	53.00	74.00	-21.00	PK
Horizontal	4434.059	59.51	-20.73	38.78	54.00	-15.22	AV
Horizontal	10380.123	60.55	-9.33	51.22	68.20	-16.98	PK
Horizontal	10380.123	49.35	-9.33	40.02	54.00	-13.98	AV
Horizontal	15570.190	60.18	-7.83	52.35	74.00	-21.65	PK
Horizontal	15570.190	49.27	-7.83	41.44	54.00	-12.56	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.180	73.44	-20.12	53.32	68.20	-14.88	PK
Vertical	4739.180	59.65	-20.12	39.53	54.00	-14.47	AV
Vertical	10460.014	62.85	-9.21	53.64	68.20	-14.56	PK
Vertical	10460.014	49.40	-9.21	40.19	54.00	-13.81	AV
Vertical	15690.013	63.68	-7.79	55.89	74.00	-18.11	PK
Vertical	15690.013	49.07	-7.79	41.28	54.00	-12.72	AV
Horizontal	4739.108	74.07	-20.12	53.95	68.20	-14.25	PK
Horizontal	4739.108	59.05	-20.12	38.93	54.00	-15.07	AV
Horizontal	10460.129	62.84	-9.21	53.63	68.20	-14.57	PK
Horizontal	10460.129	49.64	-9.21	40.43	54.00	-13.57	AV
Horizontal	15690.134	63.94	-7.79	56.15	74.00	-17.85	PK
Horizontal	15690.134	49.62	-7.79	41.83	54.00	-12.17	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	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	4434.038	74.29	-20.73	53.56	68.20	-14.64	PK
Vertical	4434.038	59.32	-20.73	38.59	54.00	-15.41	AV
Vertical	10360.092	60.02	-9.36	50.66	68.20	-17.54	PK
Vertical	10360.092	49.47	-9.36	40.11	54.00	-13.89	AV
Vertical	15540.179	63.14	-7.84	55.30	74.00	-18.70	PK
Vertical	15540.179	49.29	-7.84	41.45	54.00	-12.55	AV
Horizontal	4434.053	73.91	-20.73	53.18	68.20	-15.02	PK
Horizontal	4434.053	59.30	-20.73	38.57	54.00	-15.43	AV
Horizontal	10360.036	63.65	-9.36	54.29	68.20	-13.91	PK
Horizontal	10360.036	49.39	-9.36	40.03	54.00	-13.97	AV
Horizontal	15540.037	60.71	-7.84	52.87	74.00	-21.13	PK
Horizontal	15540.037	49.81	-7.84	41.97	54.00	-12.03	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.046	74.07	-20.42	53.65	74.00	-20.35	PK
Vertical	4592.046	59.08	-20.42	38.67	54.00	-15.33	AV
Vertical	10400.036	61.15	-9.30	51.85	68.20	-16.35	PK
Vertical	10400.036	49.59	-9.30	40.29	54.00	-13.71	AV
Vertical	15600.024	63.89	-7.82	56.07	74.00	-17.93	PK
Vertical	15600.024	49.43	-7.82	41.61	54.00	-12.39	AV
Horizontal	4592.010	71.35	-20.42	50.94	74.00	-23.06	PK
Horizontal	4592.010	59.88	-20.42	39.46	54.00	-14.54	AV
Horizontal	10400.148	63.35	-9.30	54.05	68.20	-14.15	PK
Horizontal	10400.148	49.54	-9.30	40.24	54.00	-13.76	AV
Horizontal	15600.018	60.00	-7.82	52.18	74.00	-21.82	PK
Horizontal	15600.018	49.07	-7.82	41.25	54.00	-12.75	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.182	73.04	-20.12	52.92	74.00	-21.08	PK
Vertical	4739.182	59.78	-20.12	39.65	54.00	-14.35	AV
Vertical	10480.170	60.20	-9.18	51.02	68.20	-17.18	PK
Vertical	10480.170	49.28	-9.18	40.10	54.00	-13.90	AV
Vertical	15720.059	62.95	-7.78	55.17	74.00	-18.83	PK
Vertical	15720.059	49.77	-7.78	41.99	54.00	-12.01	AV
Horizontal	4739.099	73.72	-20.12	53.60	74.00	-20.40	PK
Horizontal	4739.099	59.45	-20.12	39.33	54.00	-14.67	AV
Horizontal	10480.066	60.38	-9.18	51.20	68.20	-17.00	PK
Horizontal	10480.066	49.54	-9.18	40.36	54.00	-13.64	AV
Horizontal	15720.032	61.43	-7.78	53.65	74.00	-20.35	PK
Horizontal	15720.032	49.44	-7.78	41.66	54.00	-12.34	AV

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

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

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

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

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	4434.152	74.30	-20.73	53.57	68.20	-14.63	PK
Vertical	4434.152	59.58	-20.73	38.84	54.00	-15.16	AV
Vertical	10380.080	62.68	-9.33	53.35	68.20	-14.85	PK
Vertical	10380.080	49.43	-9.33	40.10	54.00	-13.90	AV
Vertical	15570.174	62.67	-7.83	54.84	74.00	-19.16	PK
Vertical	15570.174	49.52	-7.83	41.69	54.00	-12.31	AV
Horizontal	4434.162	72.92	-20.73	52.19	74.00	-21.81	PK
Horizontal	4434.162	59.17	-20.73	38.44	54.00	-15.56	AV
Horizontal	10380.192	63.01	-9.33	53.68	68.20	-14.52	PK
Horizontal	10380.192	49.62	-9.33	40.29	54.00	-13.71	AV
Horizontal	15570.116	62.90	-7.83	55.07	74.00	-18.93	PK
Horizontal	15570.116	49.86	-7.83	42.03	54.00	-11.97	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.019	70.51	-20.12	50.39	68.20	-17.81	PK
Vertical	4739.019	59.53	-20.12	39.41	54.00	-14.59	AV
Vertical	10460.095	62.98	-9.21	53.77	68.20	-14.43	PK
Vertical	10460.095	49.31	-9.21	40.10	54.00	-13.90	AV
Vertical	15690.092	62.48	-7.79	54.69	74.00	-19.31	PK
Vertical	15690.092	49.18	-7.79	41.39	54.00	-12.61	AV
Horizontal	4739.079	71.59	-20.12	51.46	68.20	-16.74	PK
Horizontal	4739.079	59.30	-20.12	39.18	54.00	-14.82	AV
Horizontal	10460.168	63.95	-9.21	54.74	68.20	-13.46	PK
Horizontal	10460.168	49.47	-9.21	40.26	54.00	-13.74	AV
Horizontal	15690.172	64.09	-7.79	56.30	74.00	-17.70	PK
Horizontal	15690.172	49.50	-7.79	41.71	54.00	-12.29	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) - 802.11ac-HT80
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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)	
(5210 MHz)-Above 1G							
Vertical	4434.009	71.49	-20.73	50.75	68.20	-17.45	PK
Vertical	4434.009	59.28	-20.73	38.55	54.00	-15.45	AV
Vertical	10420.056	63.85	-9.27	54.58	68.20	-13.62	PK
Vertical	10420.056	49.74	-9.27	40.47	54.00	-13.53	AV
Vertical	15630.061	63.37	-7.81	55.56	74.00	-18.44	PK
Vertical	15630.061	49.78	-7.81	41.97	54.00	-12.03	AV
Horizontal	4434.023	72.93	-20.73	52.19	68.20	-16.01	PK
Horizontal	4434.023	59.64	-20.73	38.91	54.00	-15.09	AV
Horizontal	10420.194	43.51	9.27	52.78	68.20	-15.42	PK
Horizontal	10420.194	29.93	9.27	39.20	54.00	-14.80	AV
Horizontal	15630.073	60.40	-7.81	52.59	74.00	-21.41	PK
Horizontal	15630.073	49.80	-7.81	41.99	54.00	-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 (5.8G) -- 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	4679.198	73.94	-20.24	53.70	74.00	-20.30	PK
Vertical	4679.198	59.30	-20.24	39.06	54.00	-14.94	AV
Vertical	11490.030	60.51	-8.79	51.72	68.20	-16.48	PK
Vertical	11490.030	49.28	-8.79	40.49	54.00	-13.51	AV
Vertical	17235.194	59.82	-3.18	56.64	68.20	-11.56	PK
Vertical	17235.194	44.33	-3.18	41.15	54.00	-12.85	AV
Horizontal	4679.034	71.99	-20.73	51.26	74.00	-22.74	PK
Horizontal	4679.034	59.65	-20.73	38.92	54.00	-15.08	AV
Horizontal	11490.191	63.09	-8.79	54.30	68.20	-13.90	PK
Horizontal	11490.191	49.96	-8.79	41.17	54.00	-12.83	AV
Horizontal	17235.051	59.67	-3.18	56.49	68.20	-11.71	PK
Horizontal	17235.051	44.62	-3.18	41.44	54.00	-12.56	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.016	72.75	-20.42	52.33	74.00	-21.67	PK
Vertical	4592.016	59.93	-20.42	39.52	54.00	-14.48	AV
Vertical	11570.153	64.45	-8.86	55.59	68.20	-12.61	PK
Vertical	11570.153	49.76	-8.86	40.90	54.00	-13.10	AV
Vertical	17355.023	55.45	-2.52	52.93	68.20	-15.27	PK
Vertical	17355.023	44.30	-2.52	41.78	54.00	-12.22	AV
Horizontal	4592.123	72.86	-20.42	52.44	74.00	-21.56	PK
Horizontal	4592.123	59.93	-20.42	39.52	54.00	-14.48	AV
Horizontal	11570.014	64.87	-8.86	56.01	68.20	-12.19	PK
Horizontal	11570.014	49.87	-8.86	41.01	54.00	-12.99	AV
Horizontal	17355.163	57.02	-2.52	54.50	68.20	-13.70	PK
Horizontal	17355.163	44.74	-2.52	42.22	54.00	-11.78	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.173	71.56	-18.93	52.63	68.20	-15.57	PK
Vertical	6039.173	59.46	-18.93	40.53	54.00	-13.47	AV
Vertical	11650.101	63.33	-8.92	54.41	74.00	-19.59	PK
Vertical	11650.101	49.35	-8.92	40.43	54.00	-13.57	AV
Vertical	17475.171	56.88	-1.86	55.02	68.20	-13.18	PK
Vertical	17475.171	44.60	-1.86	42.74	54.00	-11.26	AV
Horizontal	6039.057	72.65	-18.93	53.72	68.20	-14.48	PK
Horizontal	6039.057	59.12	-18.93	40.19	54.00	-13.81	AV
Horizontal	11650.176	63.39	-8.92	54.47	74.00	-19.53	PK
Horizontal	11650.176	49.88	-8.92	40.96	54.00	-13.04	AV
Horizontal	17475.011	58.52	-1.86	56.66	68.20	-11.54	PK
Horizontal	17475.011	44.03	-1.86	42.17	54.00	-11.83	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

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	4679.172	71.77	-20.24	51.52	74.00	-22.48	PK
Vertical	4679.172	59.33	-20.24	39.09	54.00	-14.91	AV
Vertical	11490.160	64.38	-8.79	55.59	68.20	-12.61	PK
Vertical	11490.160	49.63	-8.79	40.84	54.00	-13.16	AV
Vertical	17235.199	56.61	-3.18	53.43	68.20	-14.77	PK
Vertical	17235.199	44.18	-3.18	41.00	54.00	-13.00	AV
Horizontal	4679.018	71.44	-20.24	51.20	74.00	-22.80	PK
Horizontal	4679.018	59.71	-20.24	39.47	54.00	-14.53	AV
Horizontal	11490.064	63.31	-8.79	54.52	68.20	-13.68	PK
Horizontal	11490.064	49.57	-8.79	40.78	54.00	-13.22	AV
Horizontal	17235.119	57.13	-3.18	53.95	68.20	-14.25	PK
Horizontal	17235.119	44.83	-3.18	41.65	54.00	-12.35	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.121	70.00	-20.42	49.59	74.00	-24.41	PK
Vertical	4592.121	59.24	-20.42	38.82	54.00	-15.18	AV
Vertical	11570.050	64.19	-8.86	55.33	68.20	-12.87	PK
Vertical	11570.050	49.38	-8.86	40.52	54.00	-13.48	AV
Vertical	17355.068	56.14	-2.52	53.62	68.20	-14.58	PK
Vertical	17355.068	44.42	-2.52	41.90	54.00	-12.10	AV
Horizontal	4592.041	70.23	-20.42	49.82	74.00	-24.18	PK
Horizontal	4592.041	59.95	-20.42	39.54	54.00	-14.46	AV
Horizontal	11570.040	61.38	-8.86	52.52	68.20	-15.68	PK
Horizontal	11570.040	49.35	-8.86	40.49	54.00	-13.51	AV
Horizontal	17355.049	57.15	-2.52	54.63	68.20	-13.57	PK
Horizontal	17355.049	44.88	-2.52	42.36	54.00	-11.64	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.036	72.00	-18.93	53.07	68.20	-15.13	PK
Vertical	6039.036	59.32	-18.93	40.38	54.00	-13.62	AV
Vertical	11650.072	61.42	-8.92	52.50	74.00	-21.50	PK
Vertical	11650.072	49.22	-8.92	40.30	54.00	-13.70	AV
Vertical	17475.108	56.84	-1.86	54.98	68.20	-13.22	PK
Vertical	17475.108	44.47	-1.86	42.61	54.00	-11.39	AV
Horizontal	6039.131	72.69	-18.93	53.76	68.20	-14.44	PK
Horizontal	6039.131	59.84	-18.93	40.91	54.00	-13.09	AV
Horizontal	11650.158	60.70	-8.92	51.78	74.00	-22.22	PK
Horizontal	11650.158	49.00	-8.92	40.08	54.00	-13.92	AV
Horizontal	17475.105	57.97	-1.86	56.11	68.20	-12.09	PK
Horizontal	17475.105	44.79	-1.86	42.93	54.00	-11.07	AV

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

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

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

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

Test Mode:	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	4679.144	72.53	-20.24	52.29	74.00	-21.71	PK
Vertical	4679.144	59.12	-20.24	38.88	54.00	-15.12	AV
Vertical	11510.000	62.48	-8.81	53.67	74.00	-20.33	PK
Vertical	11510.000	49.02	-8.81	40.21	54.00	-13.79	AV
Vertical	17265.068	55.45	-3.01	52.44	68.20	-15.76	PK
Vertical	17265.068	44.28	-3.01	41.27	54.00	-12.73	AV
Horizontal	4679.038	73.40	-20.24	53.16	74.00	-20.84	PK
Horizontal	4679.038	59.82	-20.24	39.58	54.00	-14.42	AV
Horizontal	11510.067	61.10	-8.81	52.29	74.00	-21.71	PK
Horizontal	11510.067	49.64	-8.81	40.83	54.00	-13.17	AV
Horizontal	17265.133	57.59	-3.01	54.58	68.20	-13.62	PK
Horizontal	17265.133	44.84	-3.01	41.83	54.00	-12.17	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.128	71.82	-18.93	52.89	68.20	-15.31	PK
Vertical	6039.128	59.35	-18.93	40.42	54.00	-13.58	AV
Vertical	11590.078	62.94	-8.87	54.07	74.00	-19.93	PK
Vertical	11590.078	49.41	-8.87	40.54	54.00	-13.46	AV
Vertical	17385.191	57.95	-2.35	55.60	68.20	-12.60	PK
Vertical	17385.191	44.89	-2.35	42.54	54.00	-11.46	AV
Horizontal	6039.169	70.47	-18.93	51.54	68.20	-16.66	PK
Horizontal	6039.169	59.10	-18.93	40.17	54.00	-13.83	AV
Horizontal	11590.021	60.35	-8.87	51.48	74.00	-22.52	PK
Horizontal	11590.021	49.51	-8.87	40.64	54.00	-13.36	AV
Horizontal	17385.105	56.05	-2.35	53.70	68.20	-14.50	PK
Horizontal	17385.105	44.58	-2.35	42.23	54.00	-11.77	AV

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

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

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

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

Test Mode: TX (5.8G) --802.11ac-HT20

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	4679.123	72.83	-20.24	52.59	74.00	-21.41	PK
Vertical	4679.123	59.31	-20.24	39.07	54.00	-14.93	AV
Vertical	11490.187	60.69	-8.79	51.90	68.20	-16.30	PK
Vertical	11490.187	49.11	-8.79	40.32	54.00	-13.68	AV
Vertical	17235.069	55.71	-3.18	52.53	68.20	-15.67	PK
Vertical	17235.069	44.63	-3.18	41.45	54.00	-12.55	AV
Horizontal	4679.192	74.80	-20.24	54.56	74.00	-19.44	PK
Horizontal	4679.192	59.81	-20.24	39.57	54.00	-14.43	AV
Horizontal	11490.047	62.00	-8.79	53.21	68.20	-14.99	PK
Horizontal	11490.047	49.65	-8.79	40.86	54.00	-13.14	AV
Horizontal	17235.170	57.16	-3.18	53.98	68.20	-14.22	PK
Horizontal	17235.170	44.49	-3.18	41.31	54.00	-12.69	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.163	74.17	-20.42	53.75	74.00	-20.25	PK
Vertical	4592.163	59.40	-20.42	38.98	54.00	-15.02	AV
Vertical	11570.159	61.03	-8.86	52.17	68.20	-16.03	PK
Vertical	11570.159	49.84	-8.86	40.98	54.00	-13.02	AV
Vertical	17355.056	58.58	-2.52	56.06	68.20	-12.14	PK
Vertical	17355.056	44.09	-2.52	41.57	54.00	-12.43	AV
Horizontal	4592.141	71.16	-20.42	50.74	74.00	-23.26	PK
Horizontal	4592.141	59.06	-20.42	38.64	54.00	-15.36	AV
Horizontal	11570.111	64.68	-8.86	55.82	68.20	-12.38	PK
Horizontal	11570.111	49.87	-8.86	41.01	54.00	-12.99	AV
Horizontal	17355.066	57.81	-2.52	55.29	68.20	-12.91	PK
Horizontal	17355.066	44.73	-2.52	42.21	54.00	-11.79	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.072	74.09	-18.93	55.16	68.20	-13.04	PK
Vertical	6039.072	59.45	-18.93	40.52	54.00	-13.48	AV
Vertical	11650.137	61.96	-8.92	53.04	74.00	-20.96	PK
Vertical	11650.137	49.33	-8.92	40.41	54.00	-13.59	AV
Vertical	17475.013	55.45	-1.86	53.59	68.20	-14.61	PK
Vertical	17475.013	44.98	-1.86	43.12	54.00	-10.88	AV
Horizontal	6039.067	70.45	-18.93	51.52	68.20	-16.68	PK
Horizontal	6039.067	59.78	-18.93	40.85	54.00	-13.15	AV
Horizontal	11650.193	62.92	-8.92	54.00	74.00	-20.00	PK
Horizontal	11650.193	49.29	-8.92	40.37	54.00	-13.63	AV
Horizontal	17475.138	59.86	-1.86	58.00	68.20	-10.20	PK
Horizontal	17475.138	45.00	-1.86	43.14	54.00	-10.86	AV

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

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

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

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

Test Mode :	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	4679.091	74.72	-20.24	54.48	74.00	-19.52	PK
Vertical	4679.091	59.10	-20.24	38.85	54.00	-15.15	AV
Vertical	11510.080	64.33	-8.81	55.52	74.00	-18.48	PK
Vertical	11510.080	49.92	-8.81	41.11	54.00	-12.89	AV
Vertical	17265.093	57.27	-3.01	54.26	68.20	-13.94	PK
Vertical	17265.093	44.26	-3.01	41.25	54.00	-12.75	AV
Horizontal	4679.025	74.45	-20.24	54.20	74.00	-19.80	PK
Horizontal	4679.025	59.01	-20.24	38.77	54.00	-15.23	AV
Horizontal	11510.030	63.40	-8.81	54.59	74.00	-19.41	PK
Horizontal	11510.030	49.10	-8.81	40.29	54.00	-13.71	AV
Horizontal	17265.180	59.13	-3.01	56.12	68.20	-12.08	PK
Horizontal	17265.180	44.51	-3.01	41.50	54.00	-12.50	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.145	73.19	-18.93	54.26	68.20	-13.94	PK
Vertical	6039.145	59.84	-18.93	40.91	54.00	-13.09	AV
Vertical	11590.130	63.66	-8.87	54.79	74.00	-19.21	PK
Vertical	11590.130	49.75	-8.87	40.88	54.00	-13.12	AV
Vertical	17385.137	55.40	-2.35	53.05	68.20	-15.15	PK
Vertical	17385.137	44.35	-2.35	42.00	54.00	-12.00	AV
Horizontal	6039.189	74.65	-18.93	55.72	68.20	-12.48	PK
Horizontal	6039.189	59.99	-18.93	41.06	54.00	-12.94	AV
Horizontal	11590.085	62.79	-8.87	53.92	74.00	-20.08	PK
Horizontal	11590.085	49.58	-8.87	40.71	54.00	-13.29	AV
Horizontal	17385.198	58.30	-2.35	55.95	68.20	-12.25	PK
Horizontal	17385.198	44.89	-2.35	42.54	54.00	-11.46	AV

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

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

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

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

Test Mode:	TX (5.8G) --802.11ac-HT80
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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)	
(5775 MHz)-Above 1G							
Vertical	4679.178	71.72	-20.24	51.47	74.00	-22.53	PK
Vertical	4679.178	59.98	-20.24	39.74	54.00	-14.26	AV
Vertical	11550.037	63.25	-8.84	54.41	74.00	-19.59	PK
Vertical	11550.037	49.43	-8.84	40.59	54.00	-13.41	AV
Vertical	17325.042	55.33	-2.68	52.65	68.20	-15.55	PK
Vertical	17325.042	44.40	-2.68	41.72	54.00	-12.28	AV
Horizontal	4679.037	70.01	-20.24	49.77	74.00	-24.23	PK
Horizontal	4679.037	59.96	-20.24	39.72	54.00	-14.28	AV
Horizontal	11550.078	60.41	-8.84	51.57	74.00	-22.43	PK
Horizontal	11550.078	49.90	-8.84	41.06	54.00	-12.94	AV
Horizontal	17325.102	59.48	-2.68	56.80	68.20	-11.40	PK
Horizontal	17325.102	44.66	-2.68	41.98	54.00	-12.02	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.

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

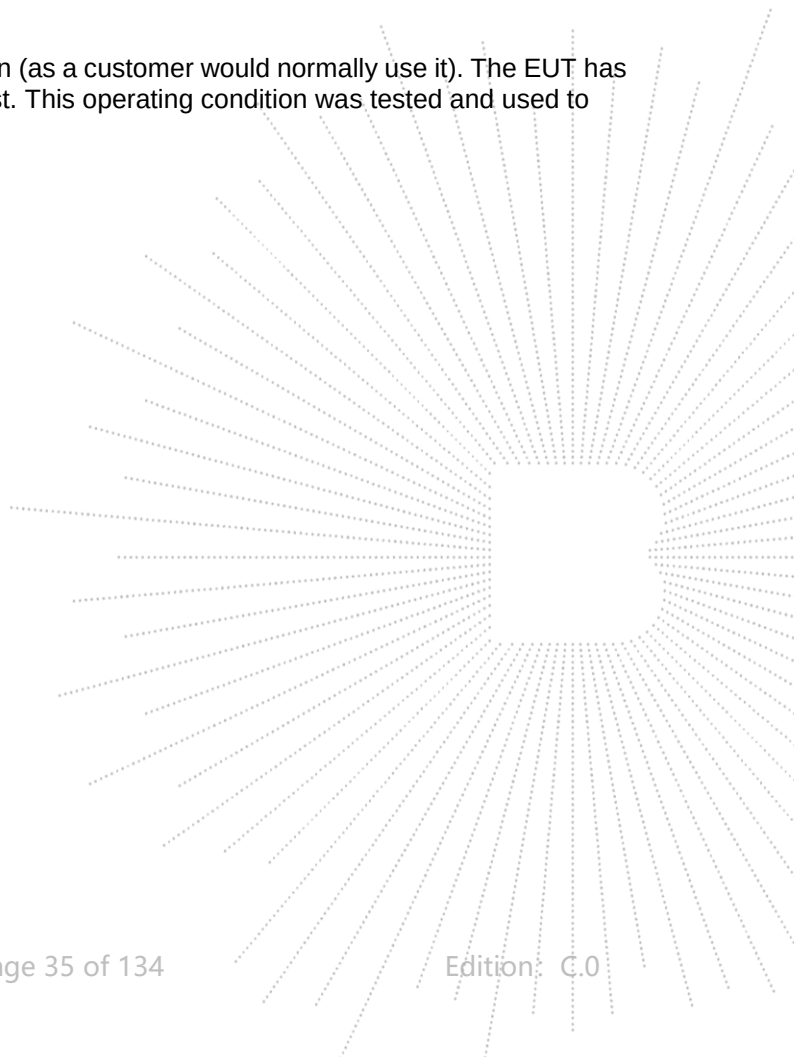
For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 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 $RBW (< 500 \text{ KHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

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

8.4 EUT Operating Conditions

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



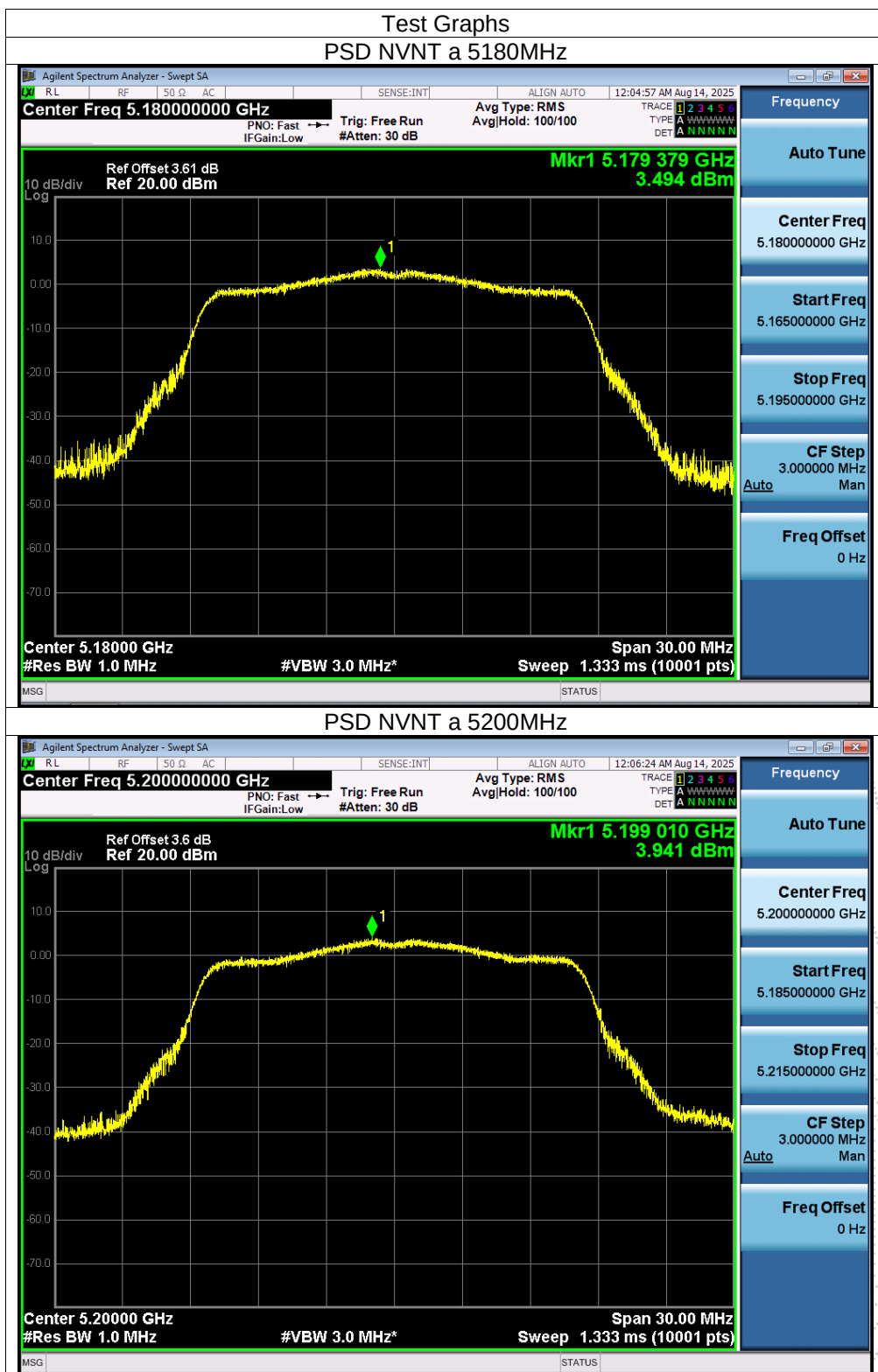
8.5 Test Result

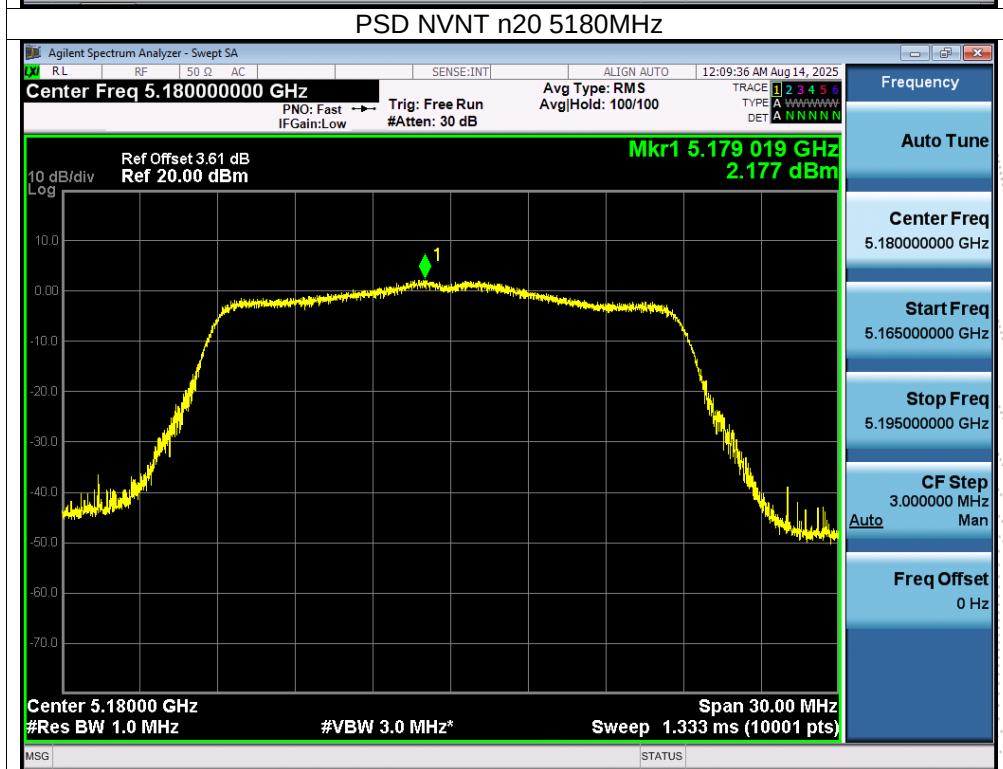
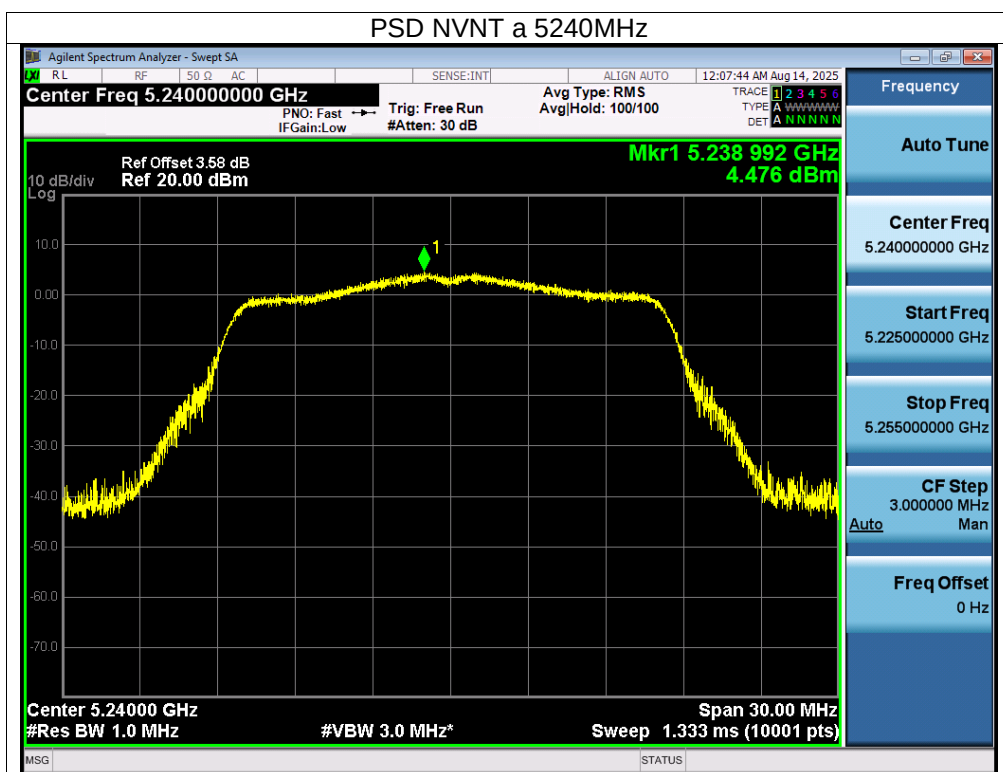
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 7.4V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz) TX Frequency U-NII-3(5745-5825MHz)		

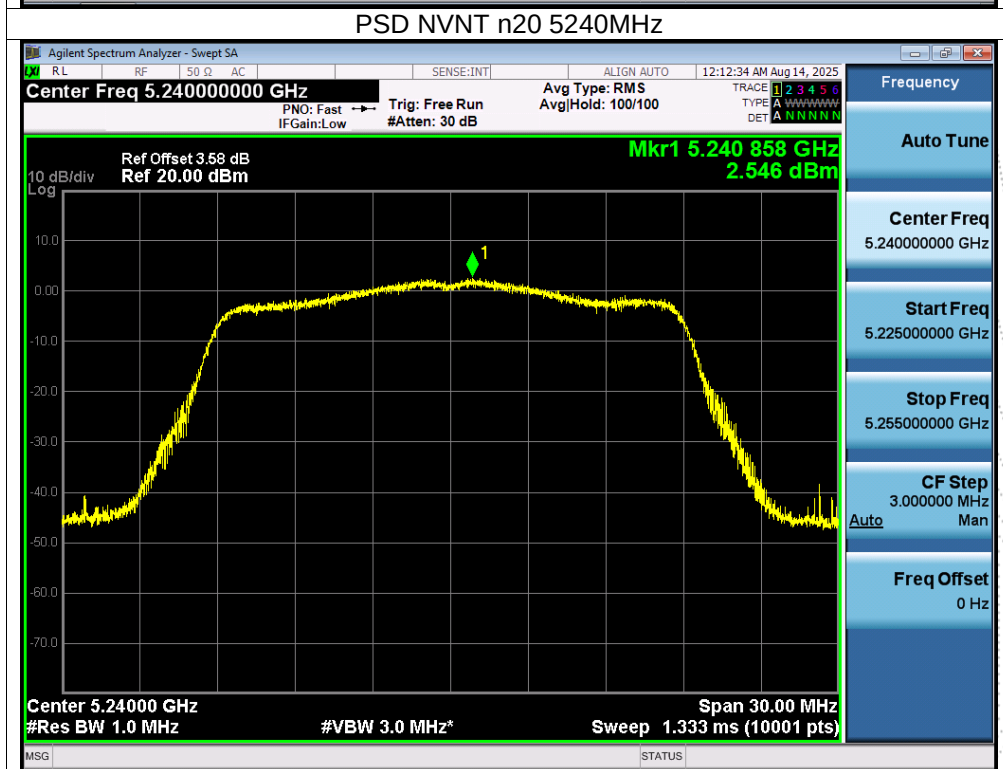
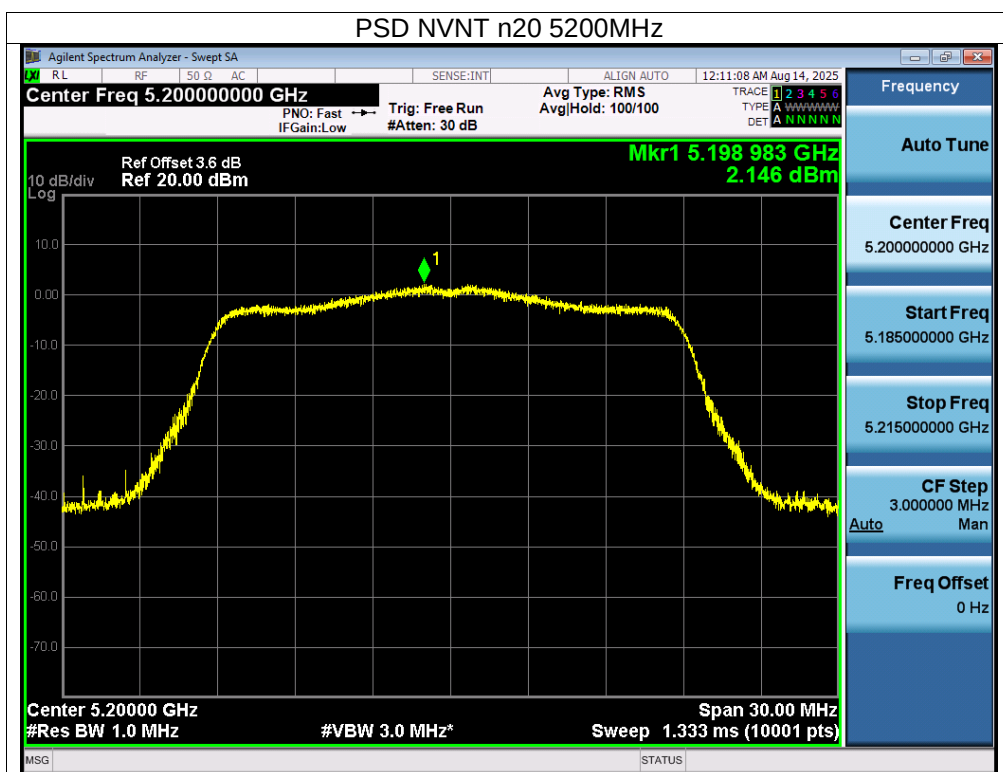
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/1MHz)	Limit (dBm/1MHz)	Verdict
NVNT	a	5180	3.49	11	Pass
NVNT	a	5200	3.94	11	Pass
NVNT	a	5240	4.48	11	Pass
NVNT	n20	5180	2.18	11	Pass
NVNT	n20	5200	2.15	11	Pass
NVNT	n20	5240	2.55	11	Pass
NVNT	n40	5190	-1.28	11	Pass
NVNT	n40	5230	-2.23	11	Pass
NVNT	ac20	5180	1.87	11	Pass
NVNT	ac20	5200	1.28	11	Pass
NVNT	ac20	5240	0.84	11	Pass
NVNT	ac40	5190	-2.29	11	Pass
NVNT	ac40	5230	-3.14	11	Pass
NVNT	ac80	5210	-7.45	11	Pass

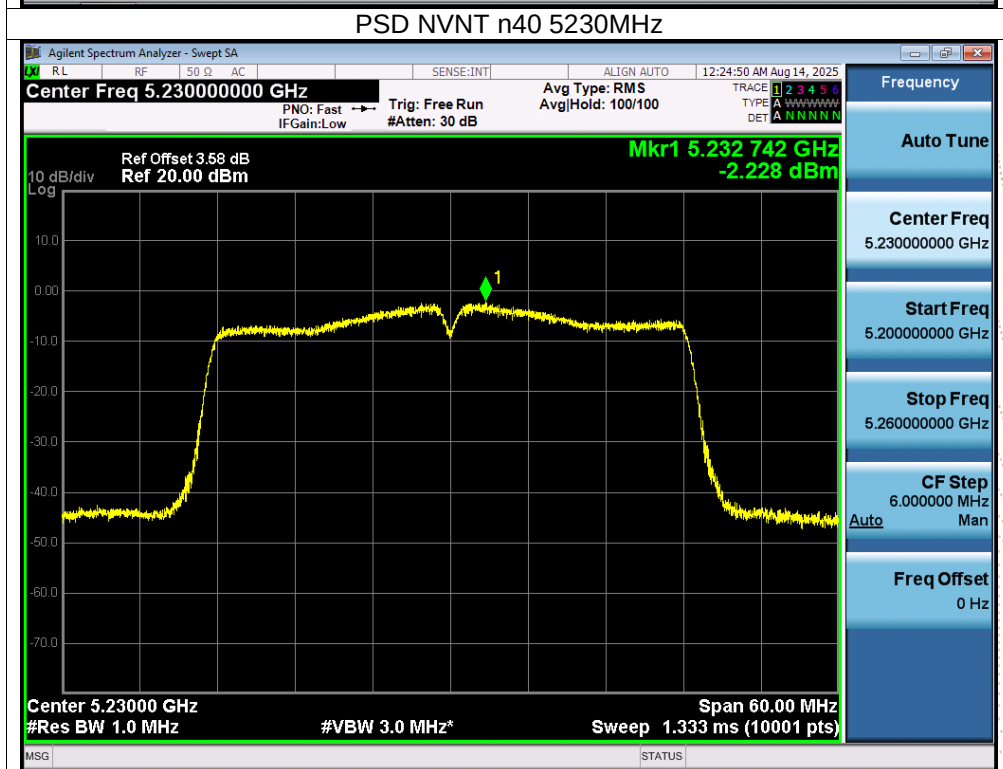
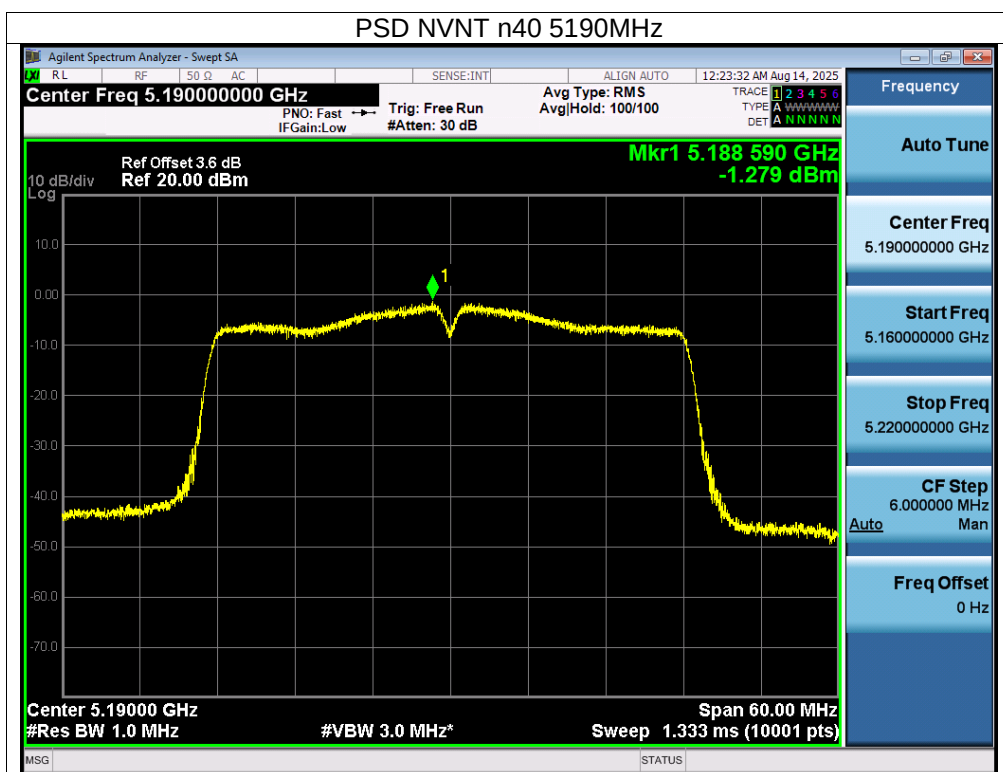
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/510KHz)	Conducted PSD (dBm/500KHz)	Limit (dBm)	Verdict
NVNT	a	5745	-3.7	-3.786	30	Pass
NVNT	a	5785	-3.26	-3.346	30	Pass
NVNT	a	5825	-3.52	-3.606	30	Pass
NVNT	n20	5745	-5.35	-5.436	30	Pass
NVNT	n20	5785	-5.08	-5.166	30	Pass
NVNT	n20	5825	-4.99	-5.076	30	Pass
NVNT	n40	5755	-9.66	-9.746	30	Pass
NVNT	n40	5795	-9.19	-9.276	30	Pass
NVNT	ac20	5745	-5.09	-5.176	30	Pass
NVNT	ac20	5785	-5.27	-5.356	30	Pass
NVNT	ac20	5825	-5.37	-5.456	30	Pass
NVNT	ac40	5755	-9.42	-9.506	30	Pass
NVNT	ac40	5795	-9.22	-9.306	30	Pass
NVNT	ac80	5775	-14.48	-14.566	30	Pass

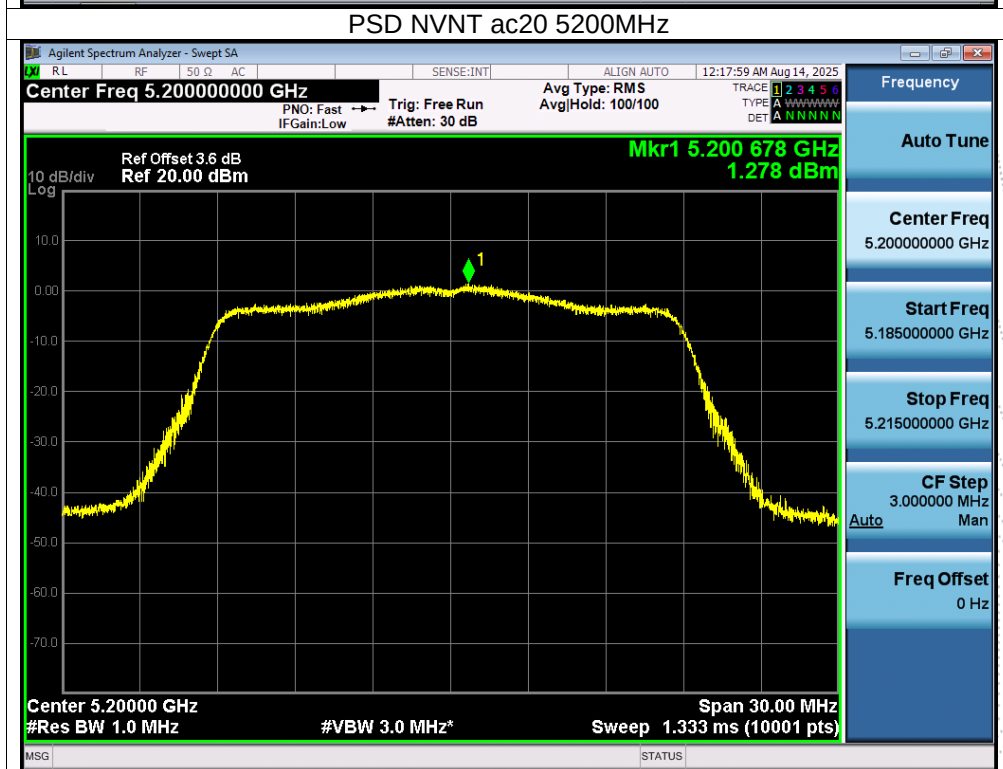
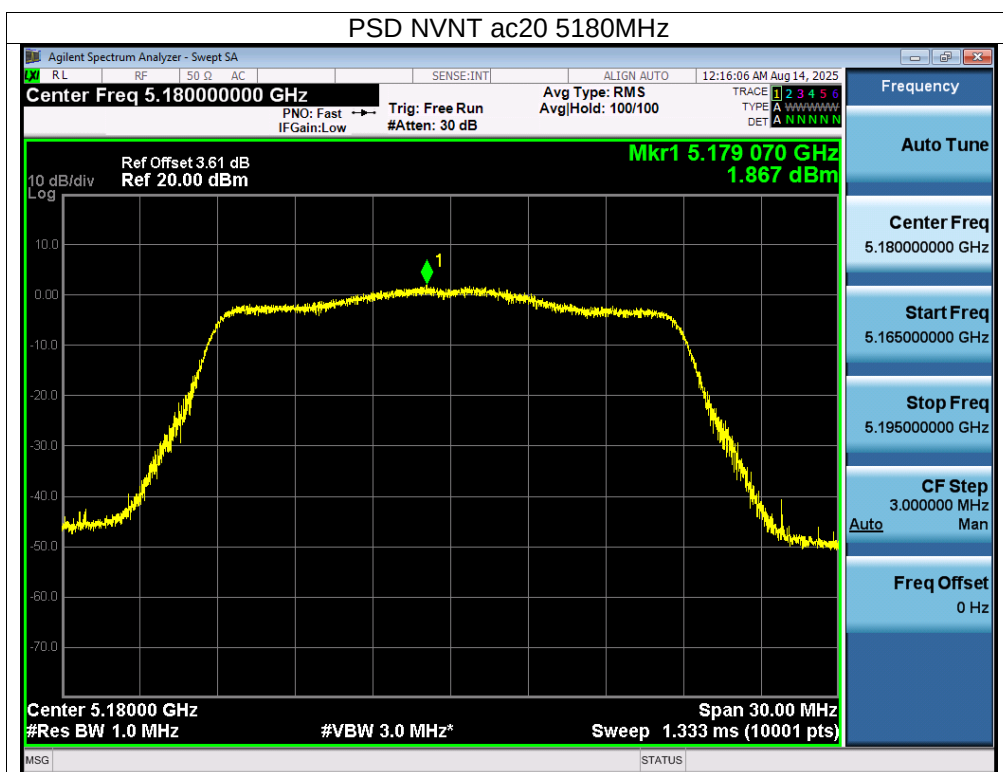
Note: Correction Factor = $10\log(500\text{KHz}/\text{RBW in measurement}) = -0.086$

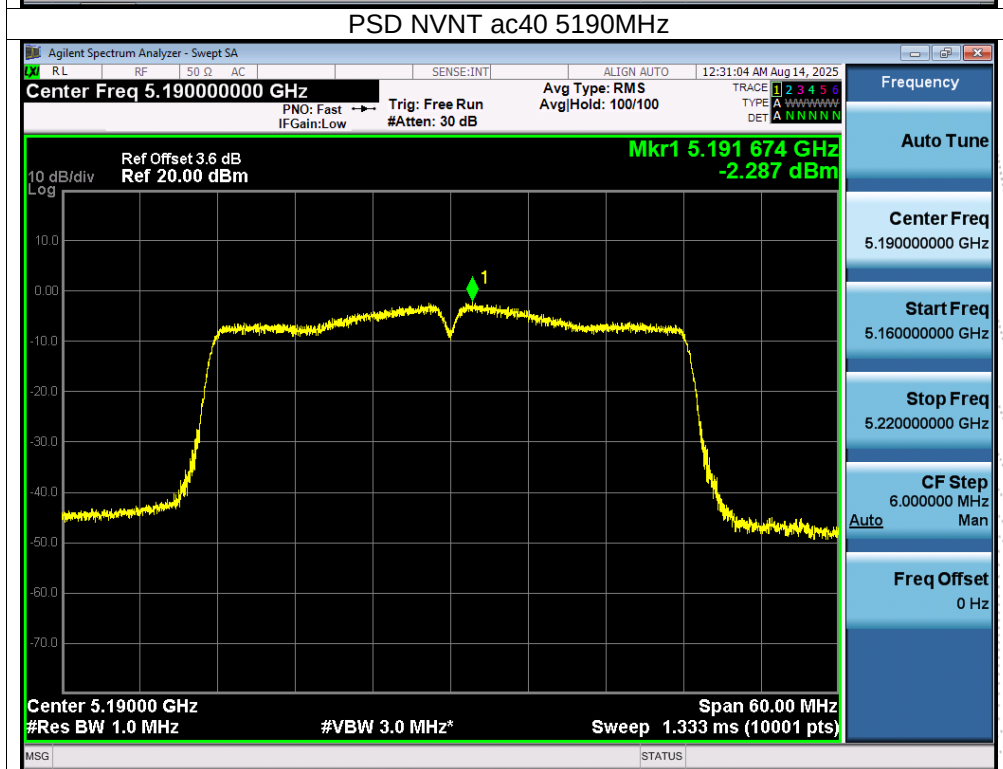
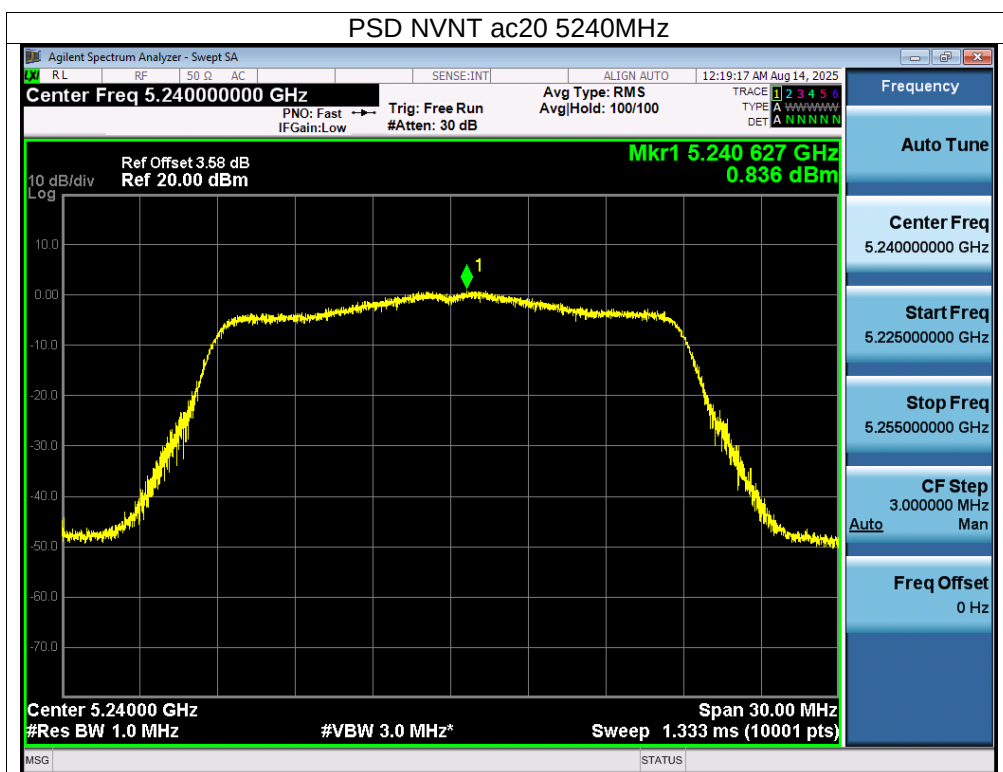


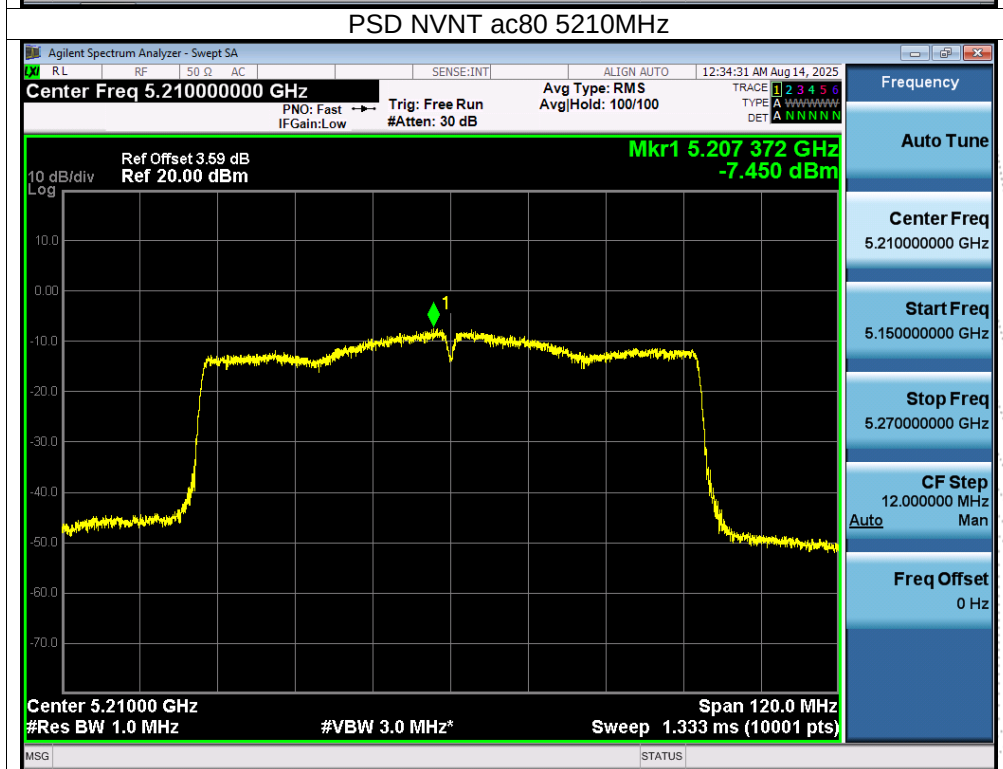
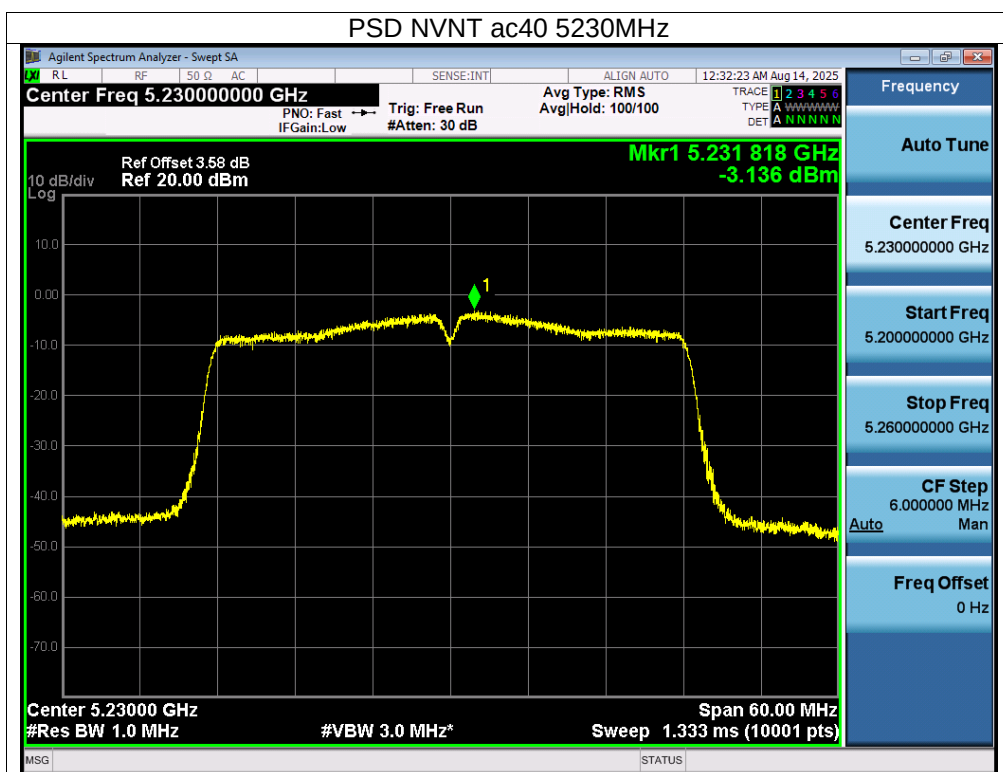




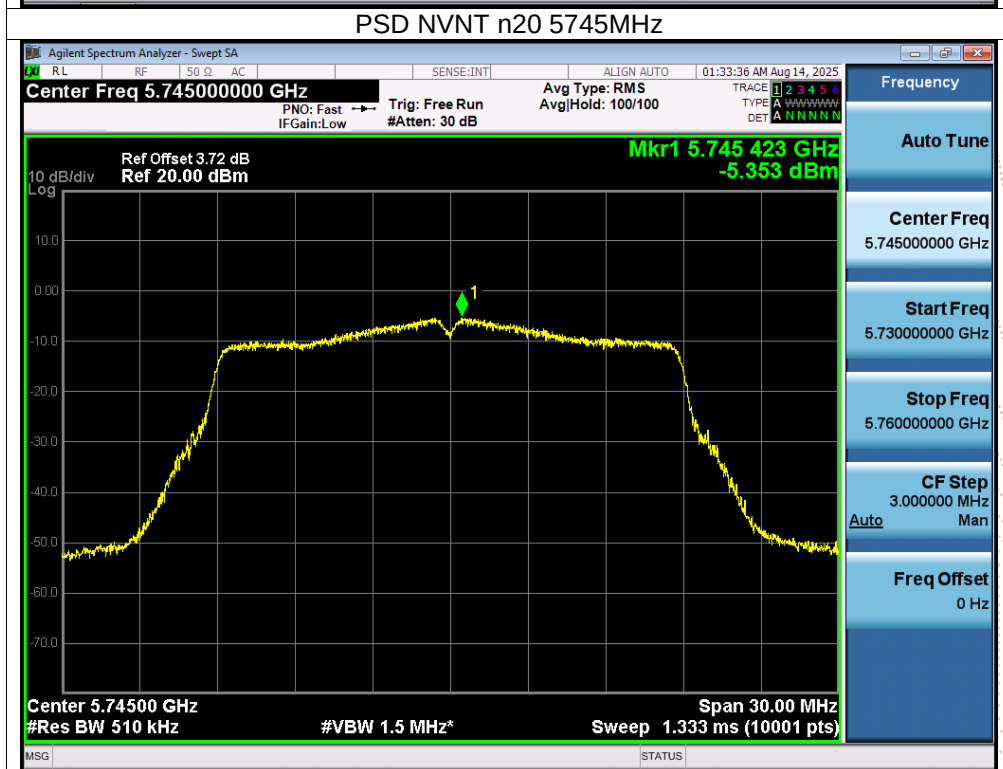
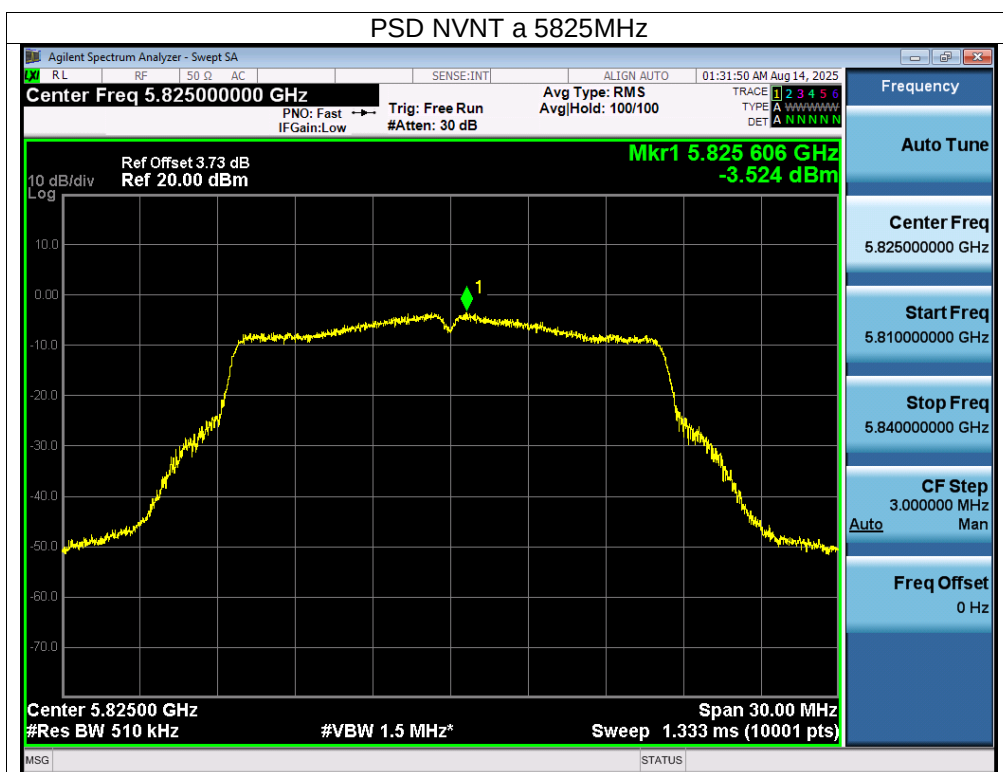


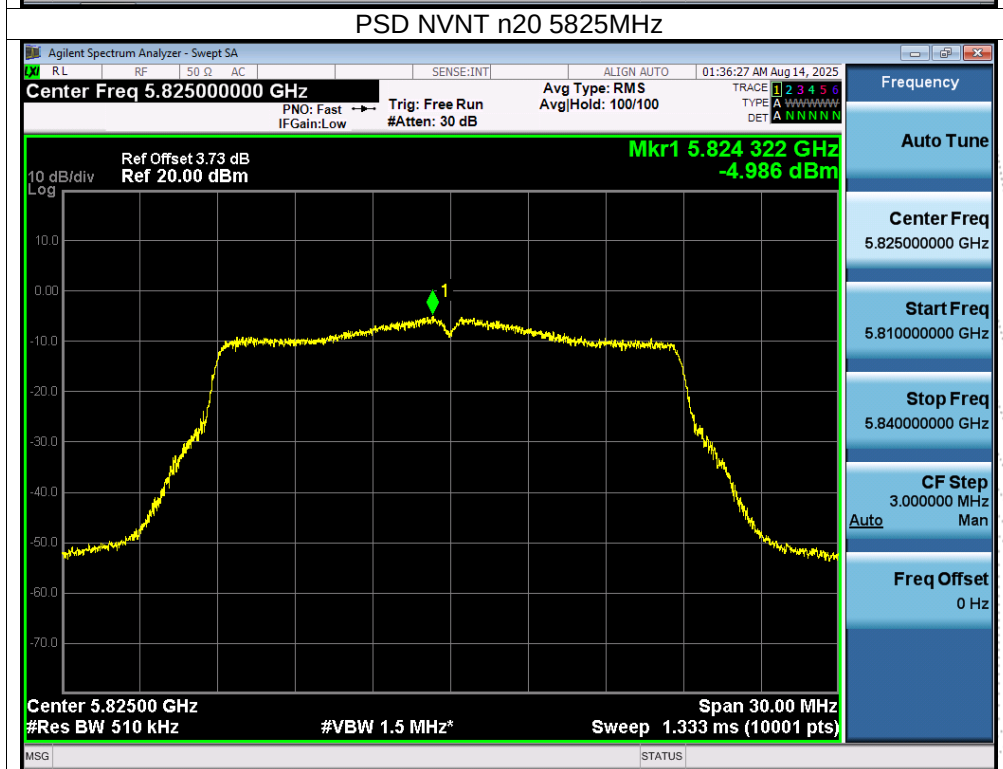
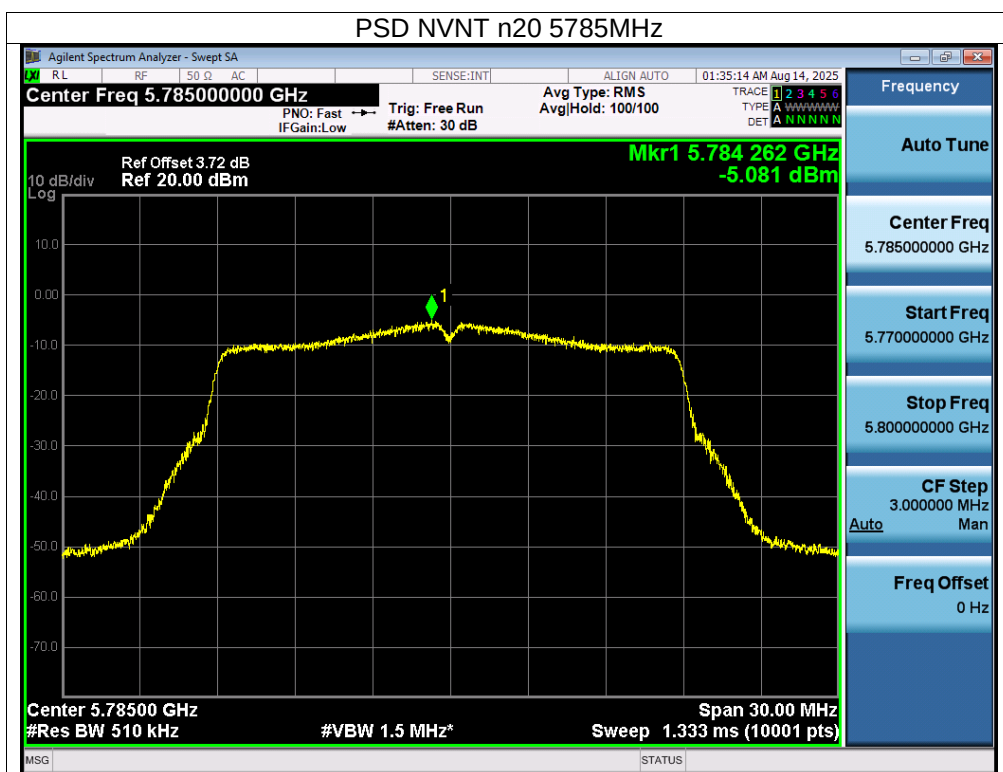


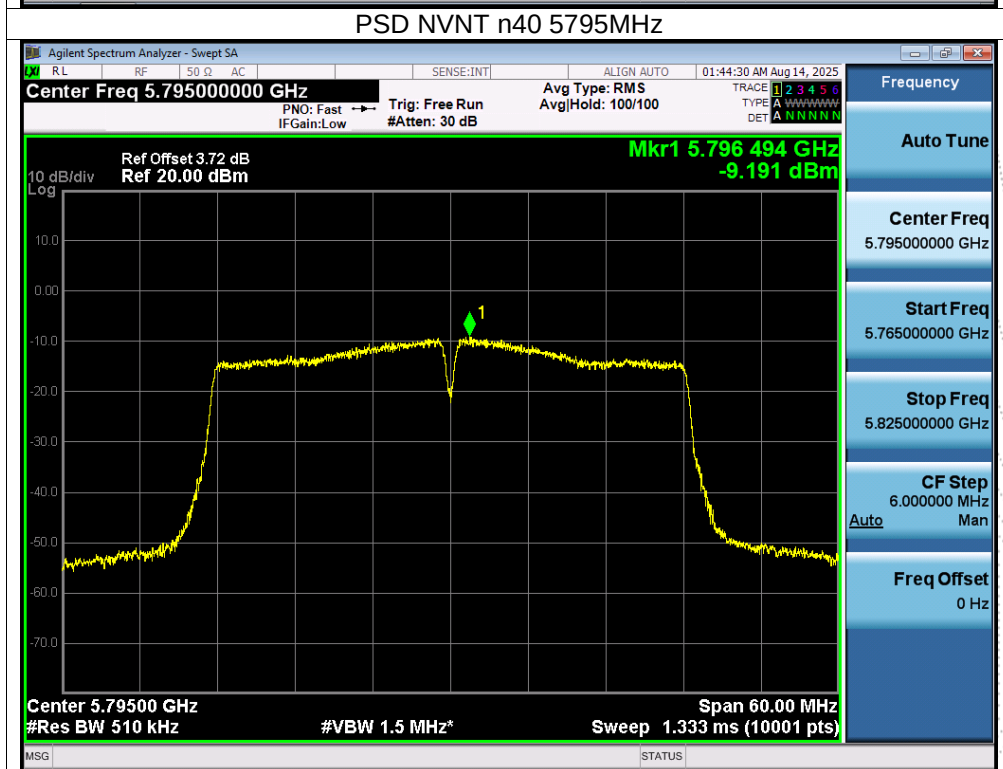
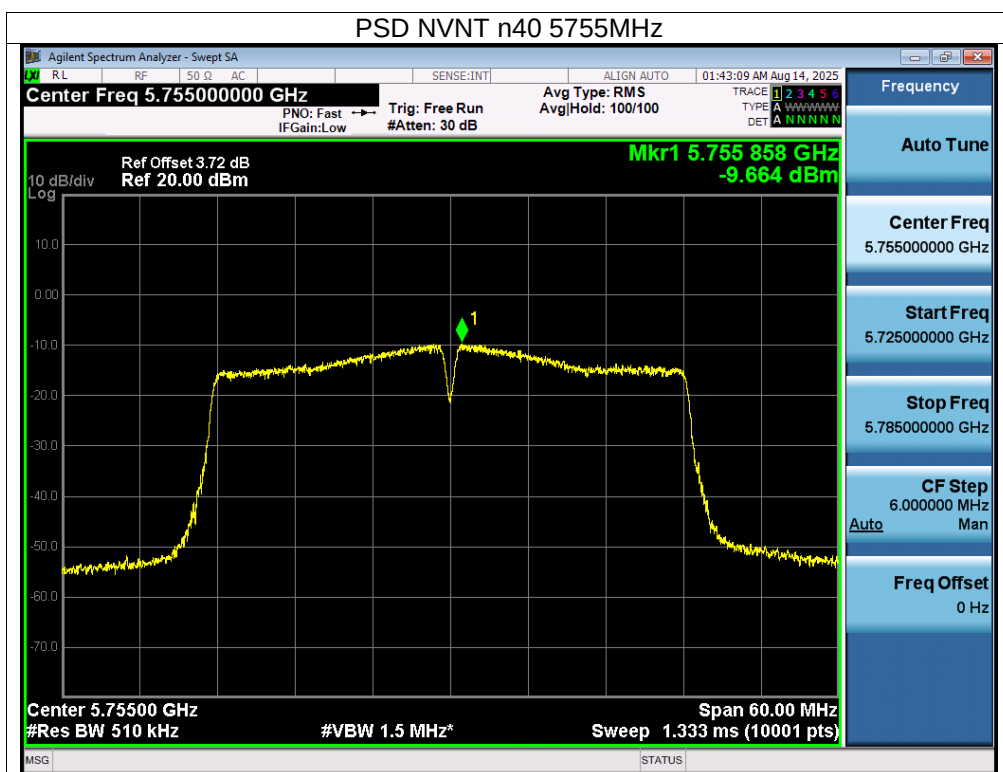


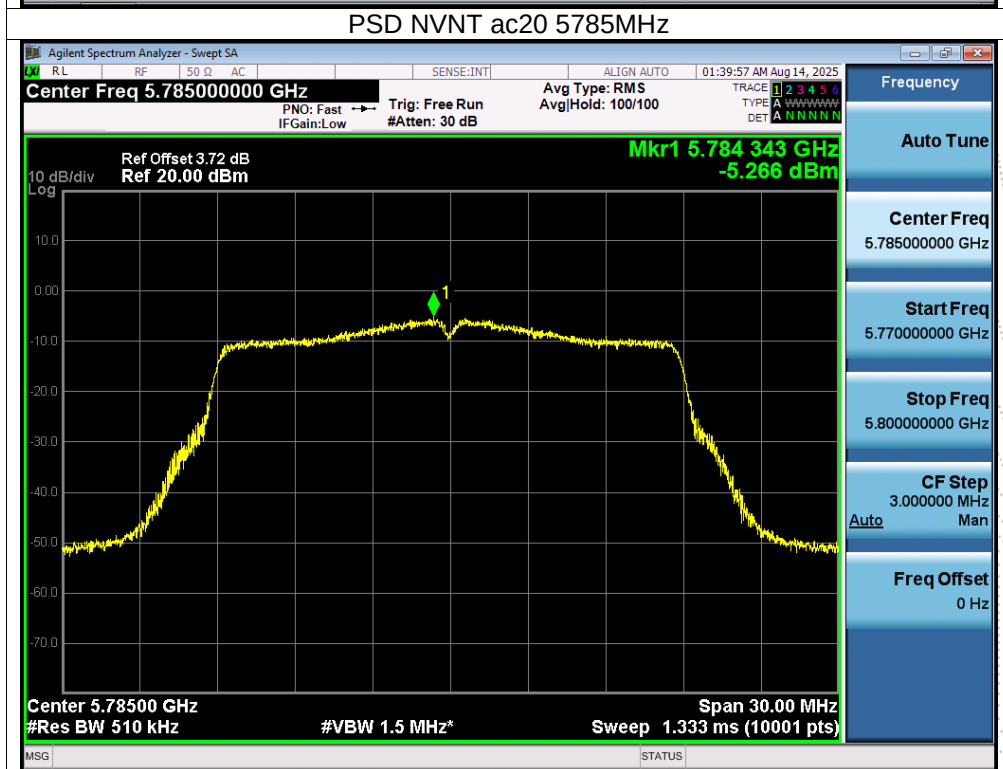
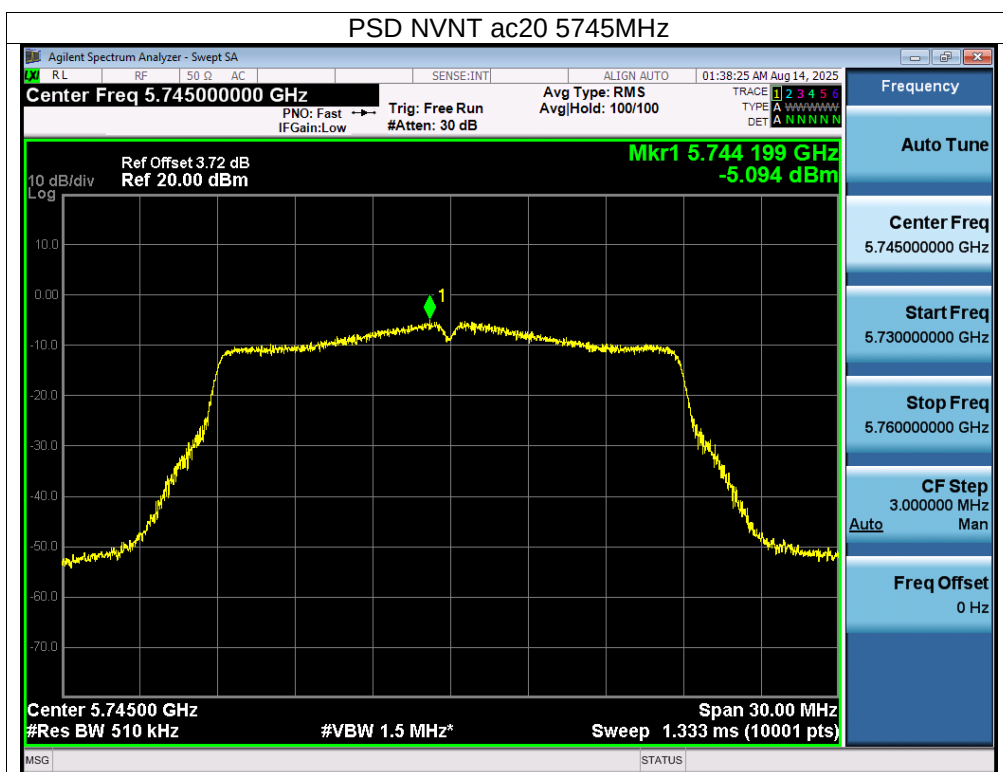


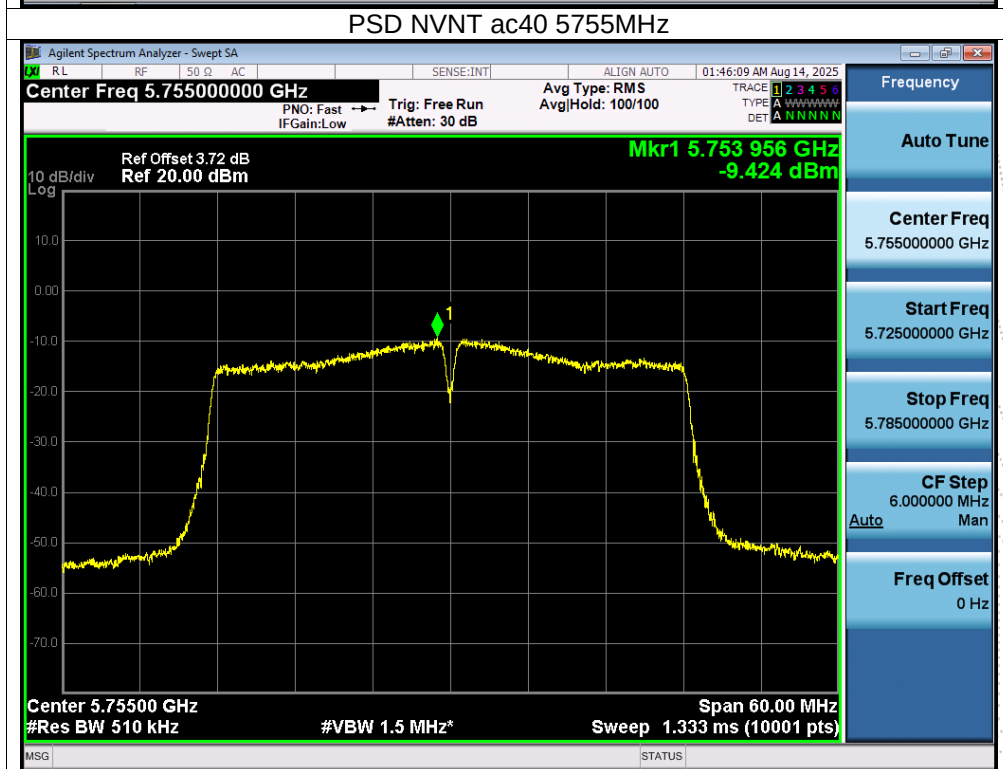
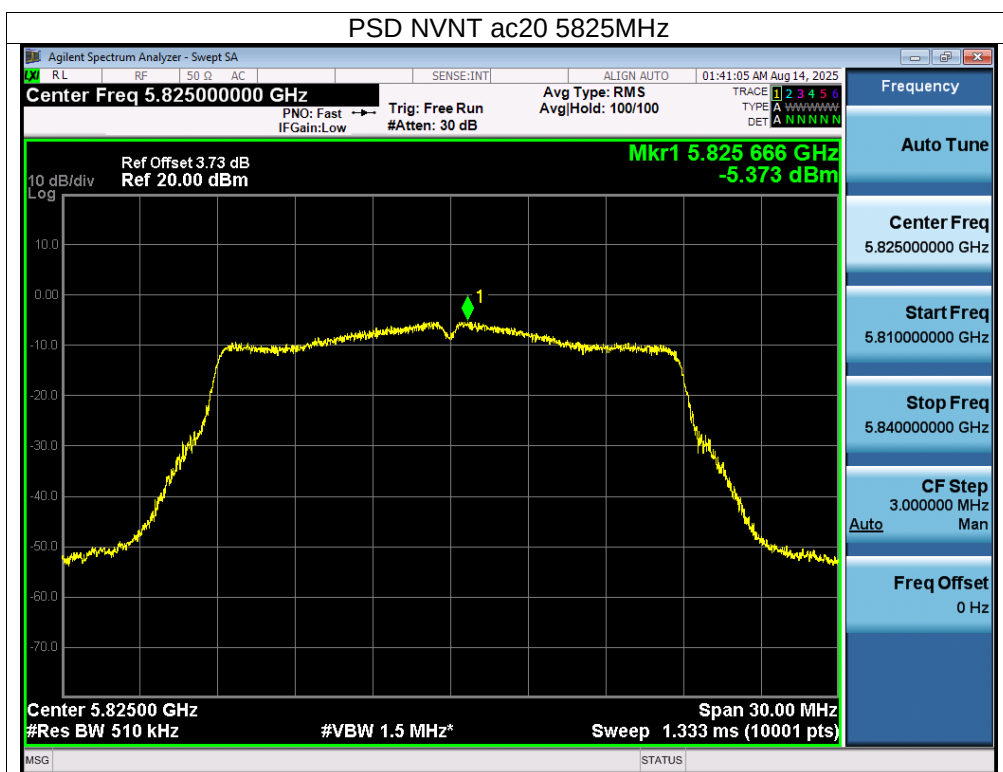


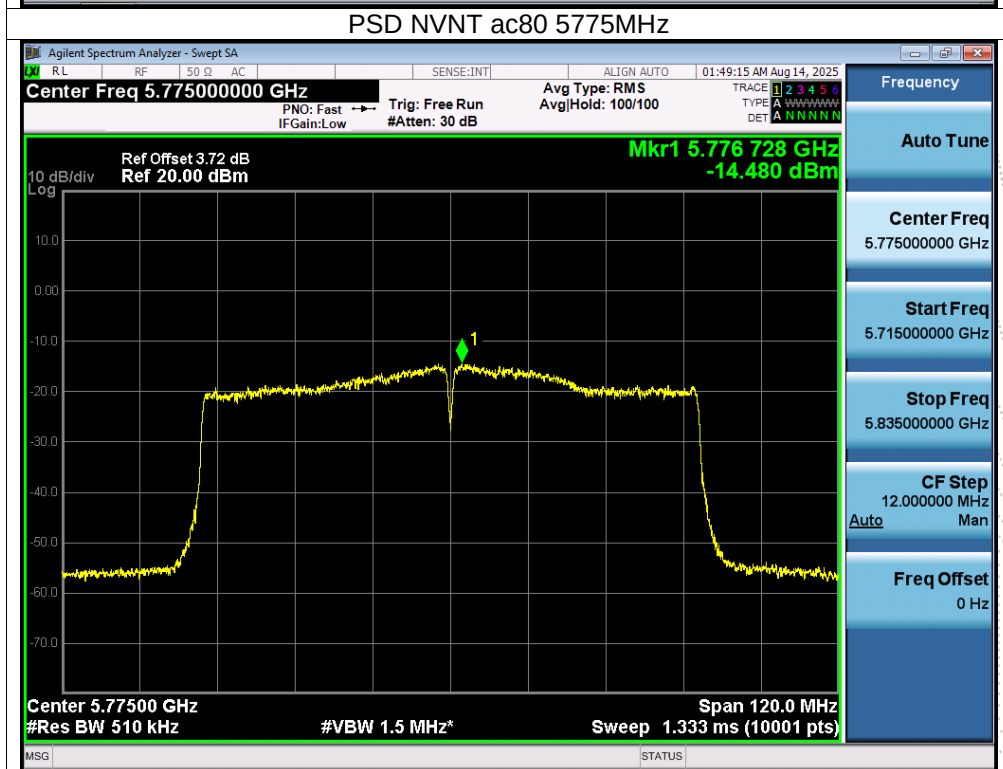
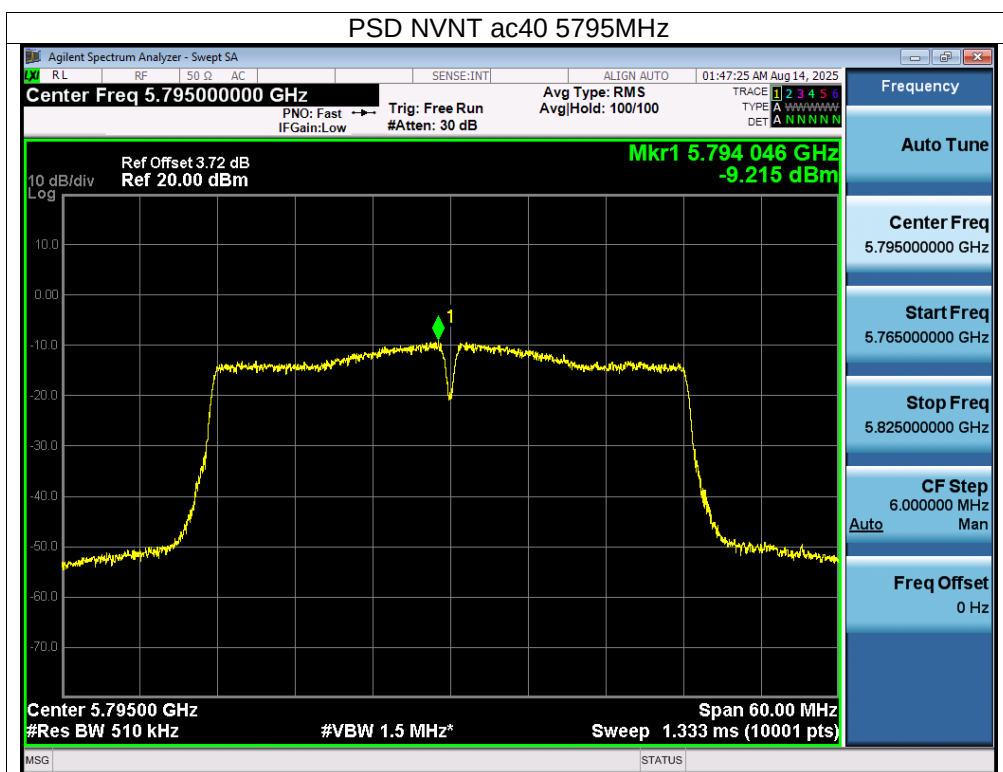






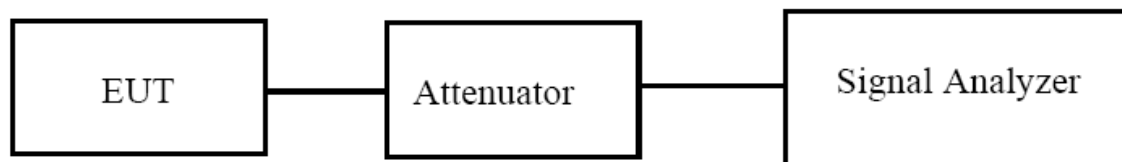






9. 26dB & 6dB & 99% Emission Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.
(6dB bandwidth)>500kHz

9.3 Test Procedure

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

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

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.
- Set RBW = 1 % to 5 % of the OBW
- Set $VBW \geq 3 \cdot RBW$
- Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- Use the 99 % power bandwidth function of the instrument (if available).
- If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

6dB

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.

6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

9.4 EUT Operating Conditions

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

9.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 7.4V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-26dB bandwidth (MHz)	Result
NVNT	a	5180	16.48	20.757	Pass
NVNT	a	5200	16.516	20.784	Pass
NVNT	a	5240	16.515	20.808	Pass
NVNT	n20	5180	17.633	20.866	Pass
NVNT	n20	5200	17.667	20.983	Pass
NVNT	n20	5240	17.64	20.809	Pass
NVNT	n40	5190	36.032	39.301	Pass
NVNT	n40	5230	36.069	39.356	Pass
NVNT	ac20	5180	17.636	20.932	Pass
NVNT	ac20	5200	17.647	20.894	Pass
NVNT	ac20	5240	17.657	21.034	Pass
NVNT	ac40	5190	36.021	39.373	Pass
NVNT	ac40	5230	36.045	39.45	Pass
NVNT	ac80	5210	75.397	80.5	Pass

