

TEST REPORT

Report No.: BCTC2503667189-2E

Applicant: Shenzhen Oikay Innovation Technology Co.,Ltd

Product Name: Smart Life camera

Test Model: C12W

Tested Date: 2025-03-21 to 2025-04-02

Issued Date: 2025-04-02

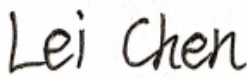
Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AQ6S-C12W

Product Name: Smart Life camera
Trademark: N/A
Model/Type reference: C12W
C10, C11, C12, C13, C15
Prepared For: Shenzhen Oikay Innovation Technology Co.,Ltd
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Manufacturer: Shenzhen Oikay Innovation Technology Co.,Ltd
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Sample Received Date: 2025-03-21
Sample tested Date: 2025-03-21 to 2025-04-02
Issue Date: 2025-04-02
Report No.: BCTC2503667189-2E
Test Standards: FCC Part15 15.407
ANSI C63.10-2013
KDB 789033 D02 v02r01
Test Results: PASS

Tested by:



Lei Chen/Project Handler

Approved by:



Zero Zhou/Reviewer

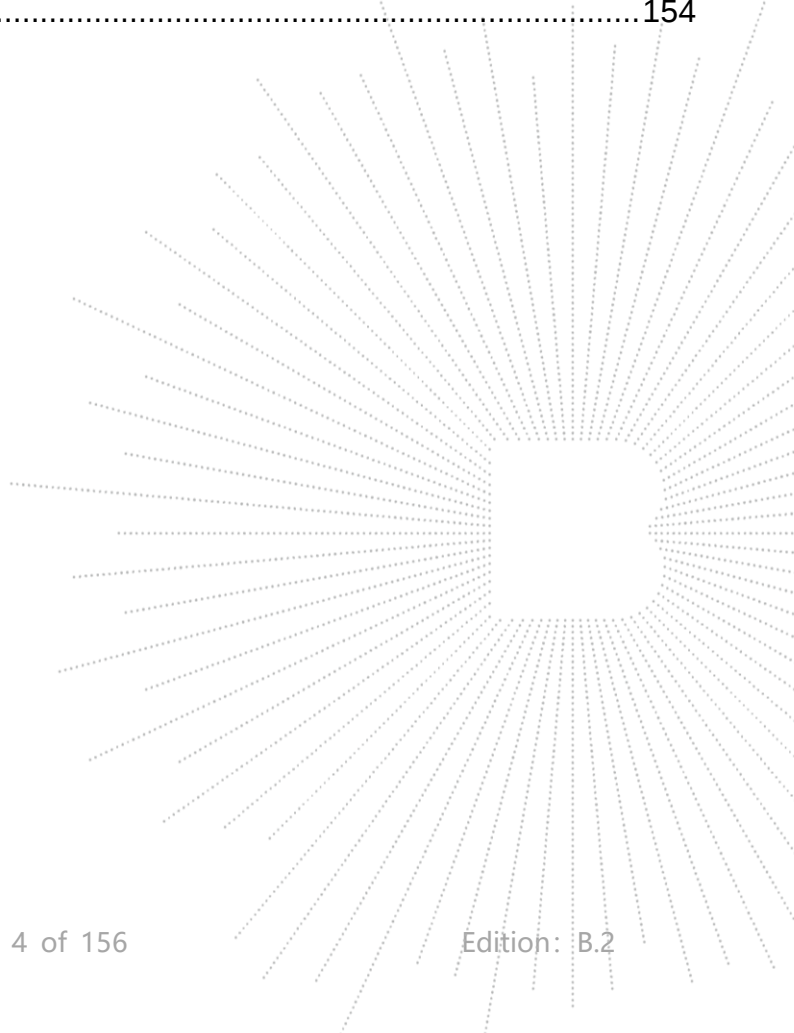
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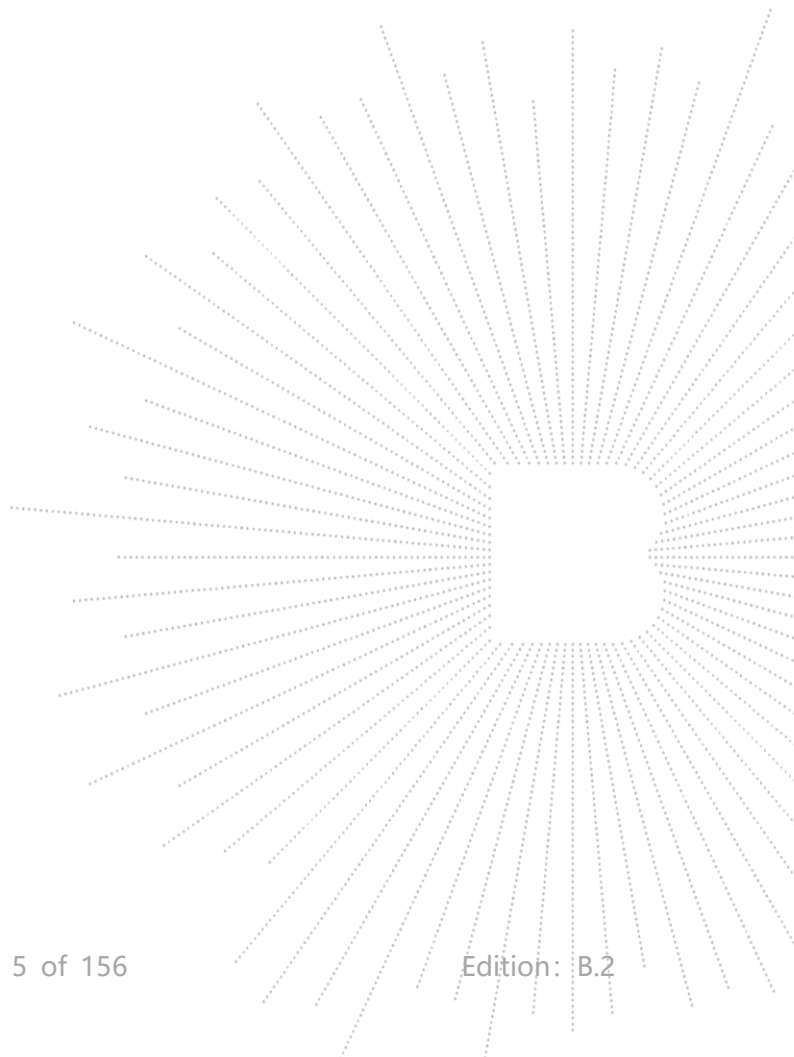
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2503667189-2E	2025-04-02	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:	C12W C10, C11, C12, C13, C15
Model differences:	All the model are the same circuit and RF module, except model names.
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN Mode Supported	802.11a/n/ac/ax(20MHz channel bandwidth) 802.11n/ac/ax(40MHz channel bandwidth) 5180-5240MHz for 802.11a/n/ac(HT20)/ax(VHT20); 5190-5230MHz for 802.11n/ac(HT40)/ax(VHT40); 5745-5825 MHz for 802.11a/n/ac(HT20)/ax(VHT20); 5755-5795 MHz for 802.11n/ac(HT40)/ax(VHT40);
Operation Frequency:	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac/ax(VHT20): NSS1, MCS0-MCS8 802.11acax(VHT40):NSS1, MCS0-MCS9
Data Rate	OFDM/ OFDMA
Type of Modulation:	4 channels for 802.11a/n20/ax20 in the 5180-5240MHz band ; 2 channels for 802.11 n40/ax40 in the 5190-5230MHz band ; 5 channels for 802.11a/n20/ax20 in the 5745-5825MHz band ; 2 channels for 802.11 n40/ax40 in the 5755-5795MHz band ;
Number Of Channel	FPC antenna 5.1GHz: 2.37 dBi 5.8GHz: 1.87 dBi
Antenna installation:	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.
Antenna Gain:	
Ratings:	DC 5V from USB, DC 3.7V from battery

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	Smart Life camera	N/A	C12W	N/A	EUT
E-2	Adapter	N/A	CD289	N/A	Auxiliary

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

Notes:

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

4.4 Channel List

5.1G

802.11a/n/ac (20MHz)/ 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(40MHz)/ ax(40MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	-	-	-	-	-	-
46	5230	-	-	-	-	-	-

5.8G

802.11a/n/ac(20 MHz)/ 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 40MHz/ 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 20/ax 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20/ax 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40/ax 40 CH38/ CH 46 802.11n/ ac40/ax 40 CH 151 / CH 159
Mode 3	Charging +WIFI Linking

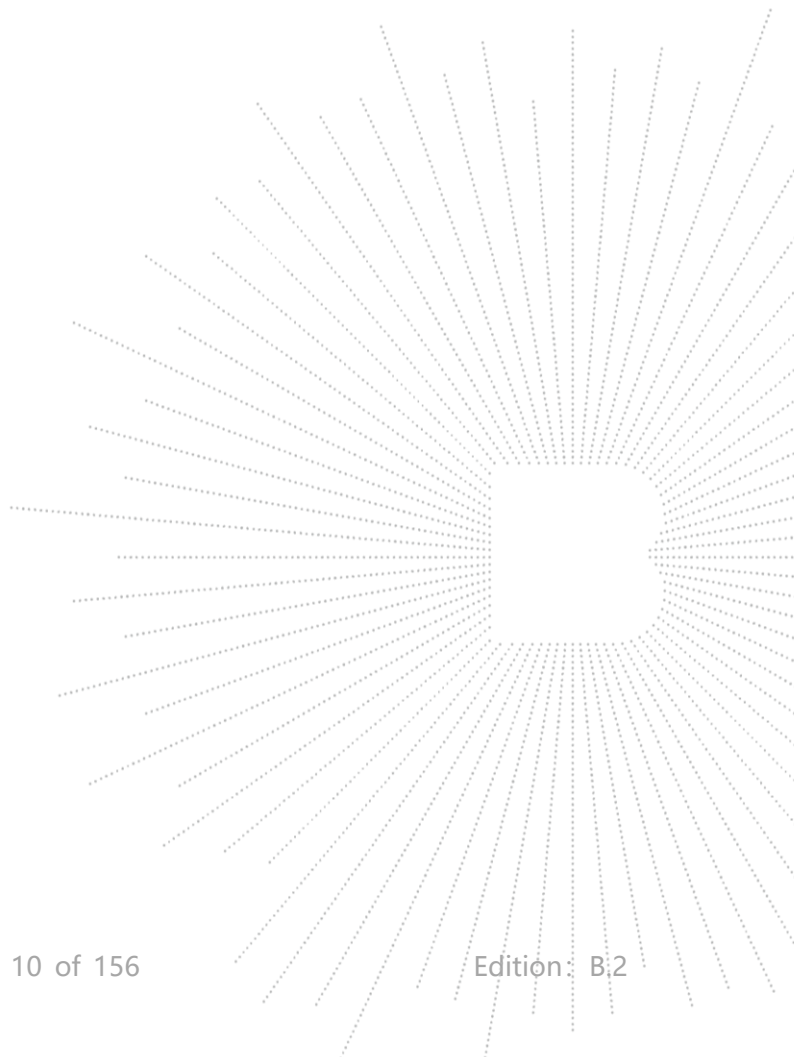
Note:

1. The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
2. This product does not support RU 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, 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

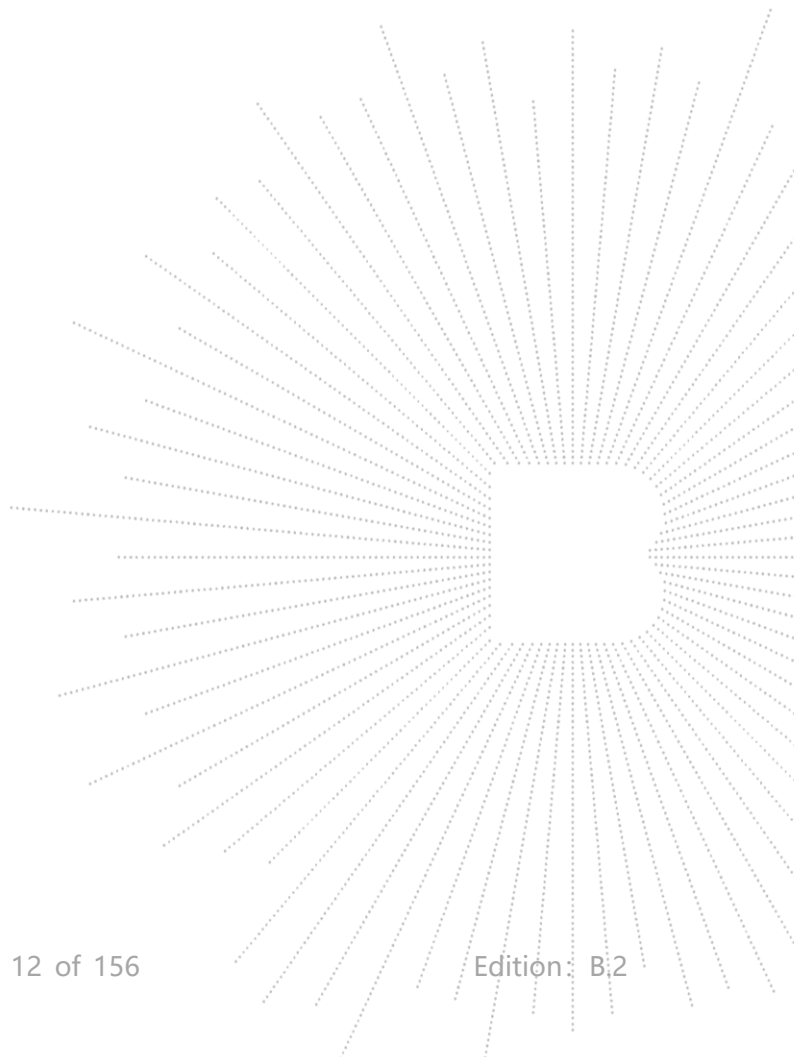
ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 16, 2024	May 15, 2025

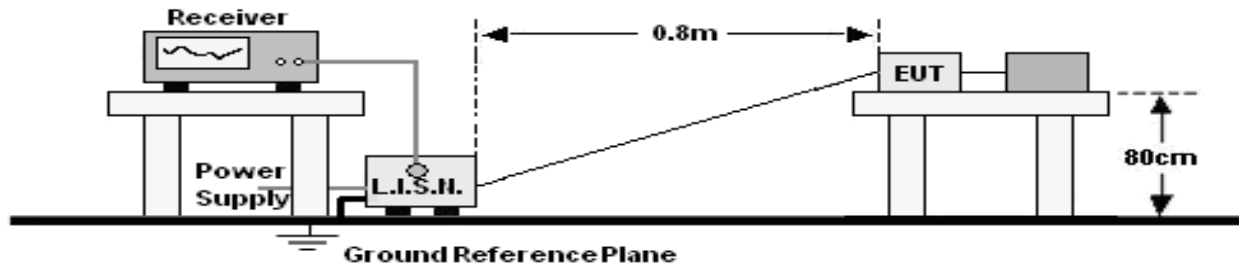
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 16, 2024	May 15, 2025
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
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 16, 2024	May 15, 2025
Receiver	R&S	ESRP	101154	May 16, 2024	May 15, 2025
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 16, 2024	May 15, 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 21, 2024	May 20, 2025
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025
Amplifier	SKET	LAPA_01G18 G-45dB	SK2021040901	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 16, 2024	May 15, 2025
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
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

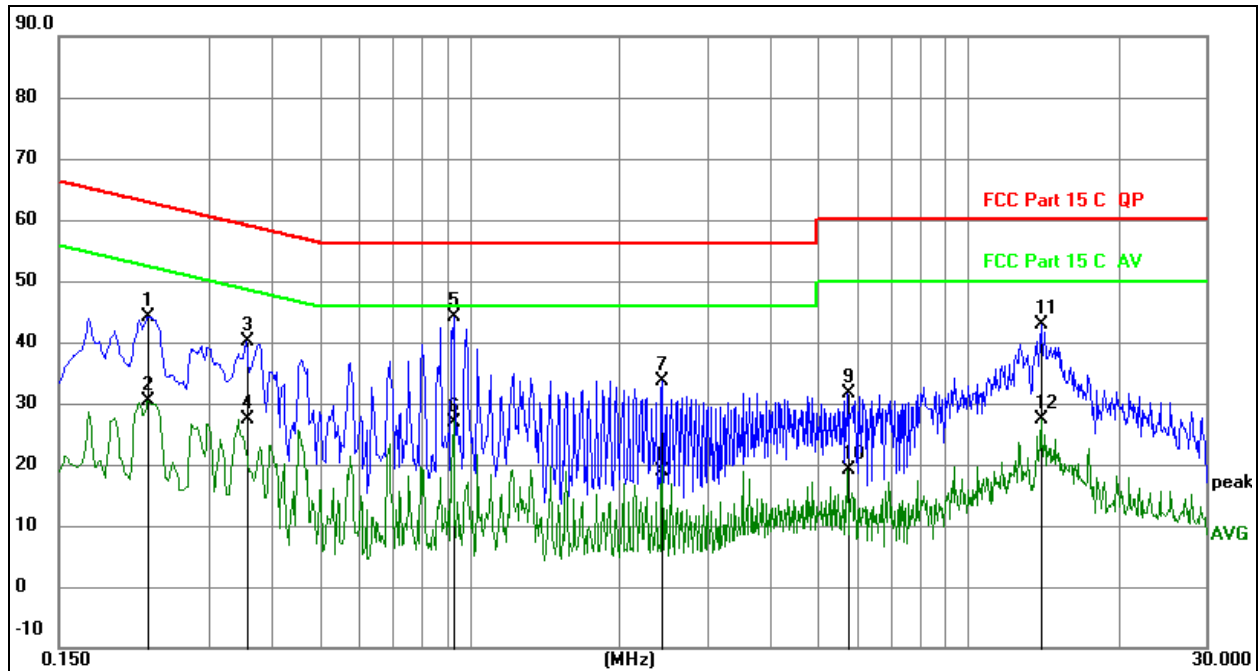
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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:	25.2 °C	Relative Humidity:	52%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 3	Test Voltage :	AC120V/60Hz

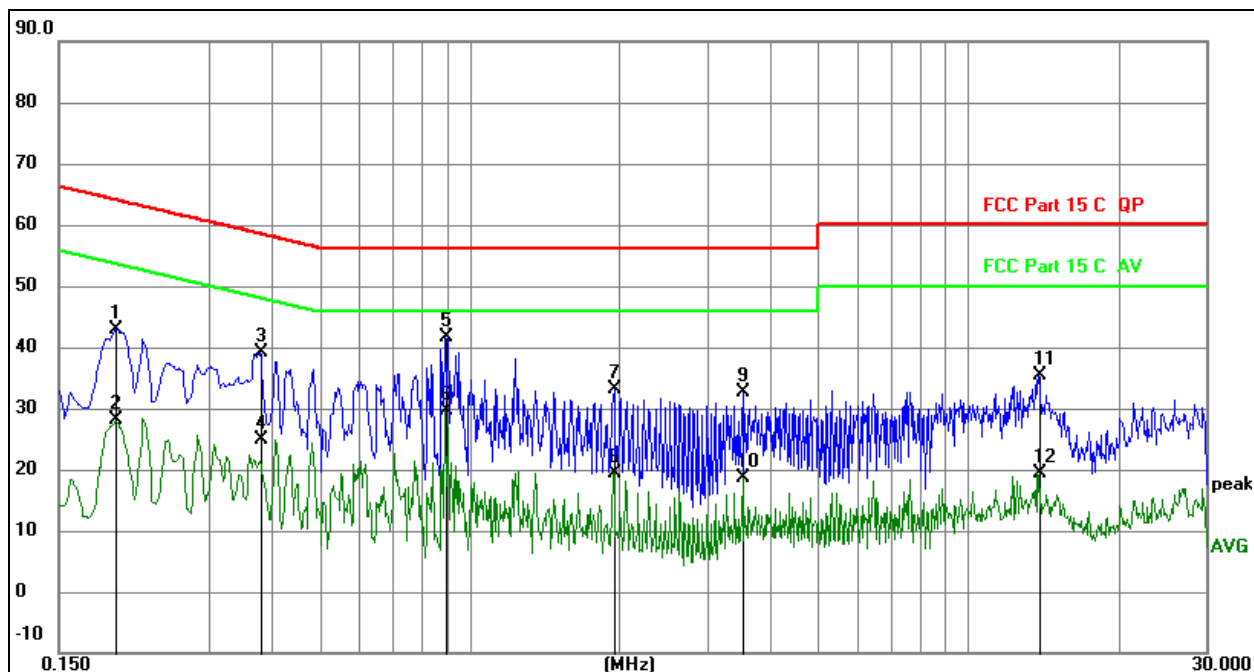


Remark:

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 dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2256	24.18	20.07	44.25	62.61	-18.36	QP
2		0.2256	10.23	20.07	30.30	52.61	-22.31	AVG
3		0.3558	20.14	20.08	40.22	58.83	-18.61	QP
4		0.3558	7.24	20.08	27.32	48.83	-21.51	AVG
5	*	0.9282	24.12	20.09	44.21	56.00	-11.79	QP
6		0.9282	6.91	20.09	27.00	46.00	-19.00	AVG
7		2.4346	13.54	20.11	33.65	56.00	-22.35	QP
8		2.4346	-1.15	20.11	18.96	46.00	-27.04	AVG
9		5.7135	11.54	20.15	31.69	60.00	-28.31	QP
10		5.7135	-1.10	20.15	19.05	50.00	-30.95	AVG
11		13.9886	22.56	20.28	42.84	60.00	-17.16	QP
12		13.9886	7.19	20.28	27.47	50.00	-22.53	AVG

Temperature:	25.2 °C	Relative Humidity:	52%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 3	Test Voltage :	AC120V/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. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1949	22.92	20.07	42.99	63.83	-20.84	QP
2		0.1949	8.18	20.07	28.25	53.83	-25.58	AVG
3		0.3795	19.00	20.08	39.08	58.29	-19.21	QP
4		0.3795	4.72	20.08	24.80	48.29	-23.49	AVG
5	*	0.8970	21.46	20.09	41.55	56.00	-14.45	QP
6		0.8970	9.56	20.09	29.65	46.00	-16.35	AVG
7		1.9500	12.92	20.10	33.02	56.00	-22.98	QP
8		1.9500	-0.80	20.10	19.30	46.00	-26.70	AVG
9		3.5295	12.42	20.13	32.55	56.00	-23.45	QP
10		3.5295	-1.43	20.13	18.70	46.00	-27.30	AVG
11		13.8750	15.14	20.28	35.42	60.00	-24.58	QP
12		13.8750	-0.90	20.28	19.38	50.00	-30.62	AVG

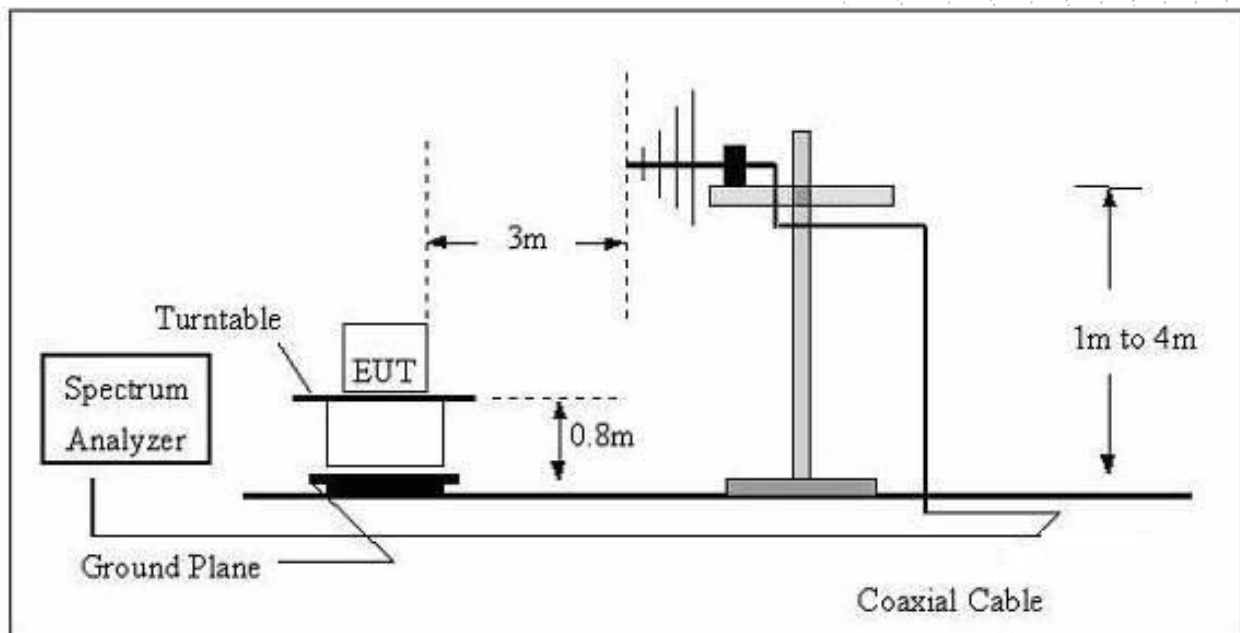
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

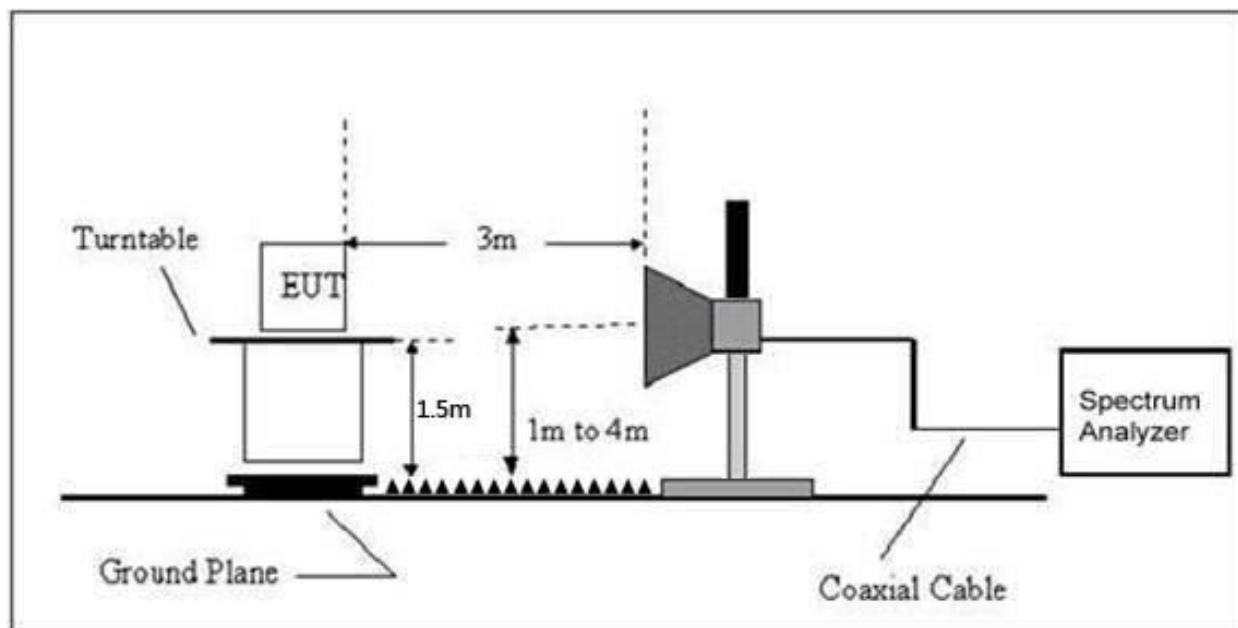
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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

- 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:	25.5℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 3	Polarization :	--

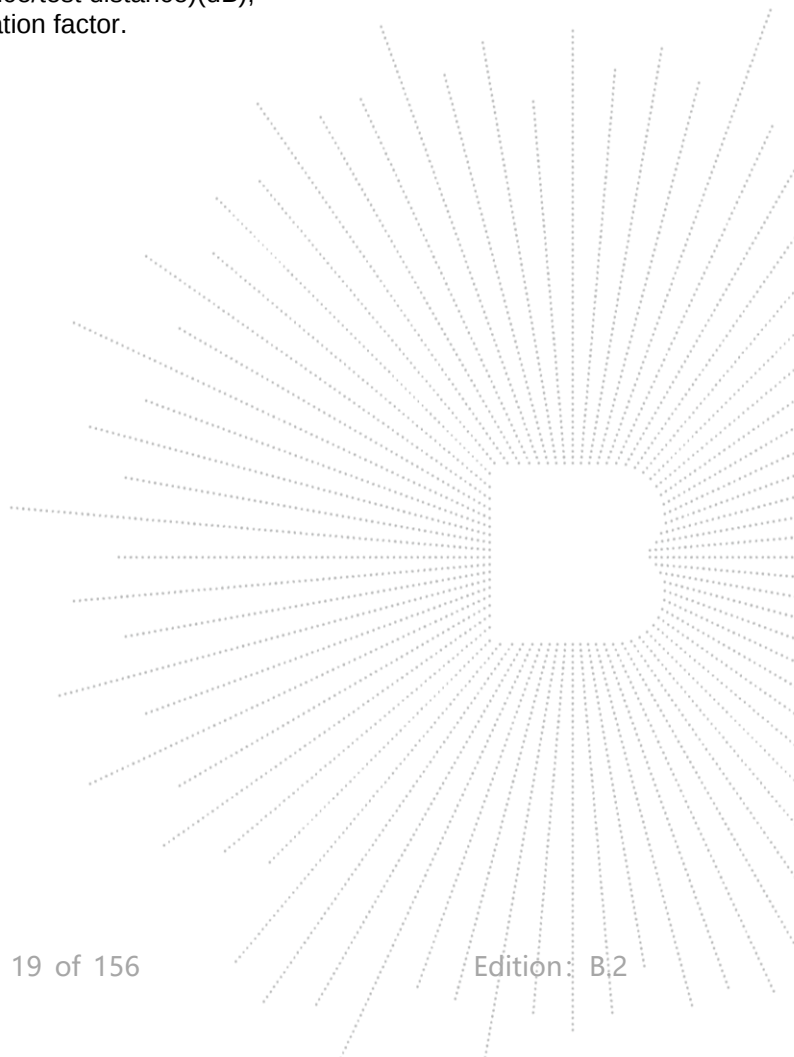
Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

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

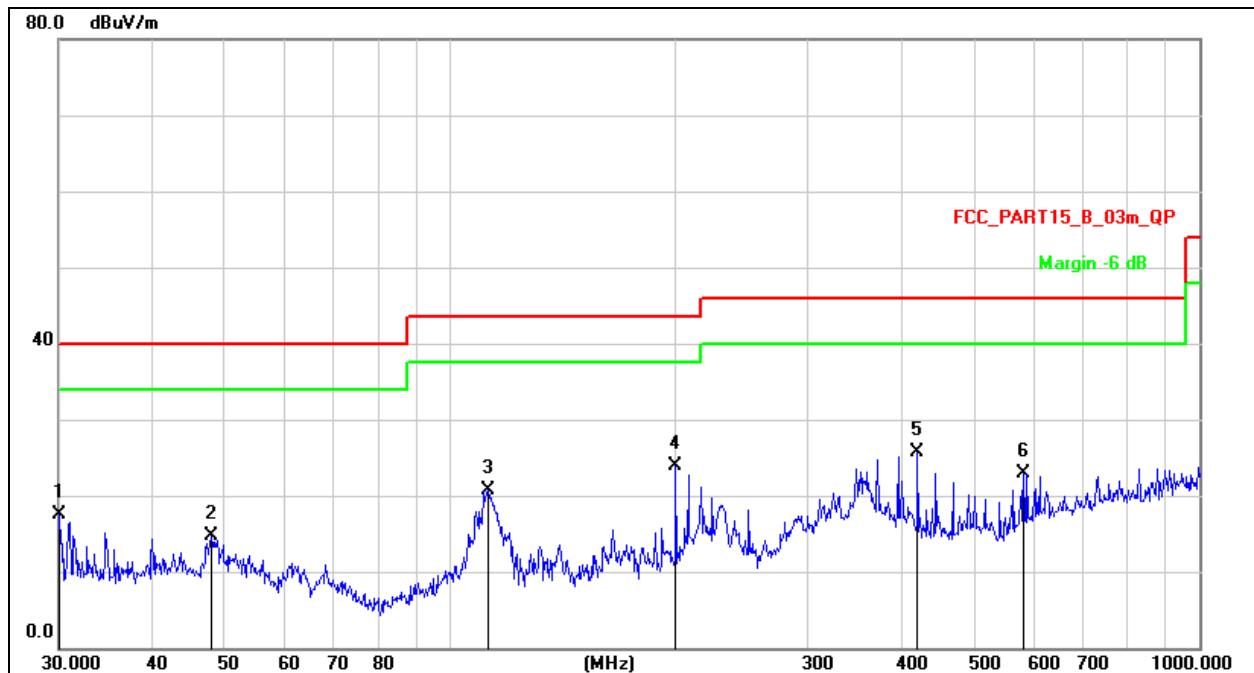
Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

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



Between 30MHz – 1GHz

Temperature:	25.5℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 3	Test Voltage :	AC120V/60Hz

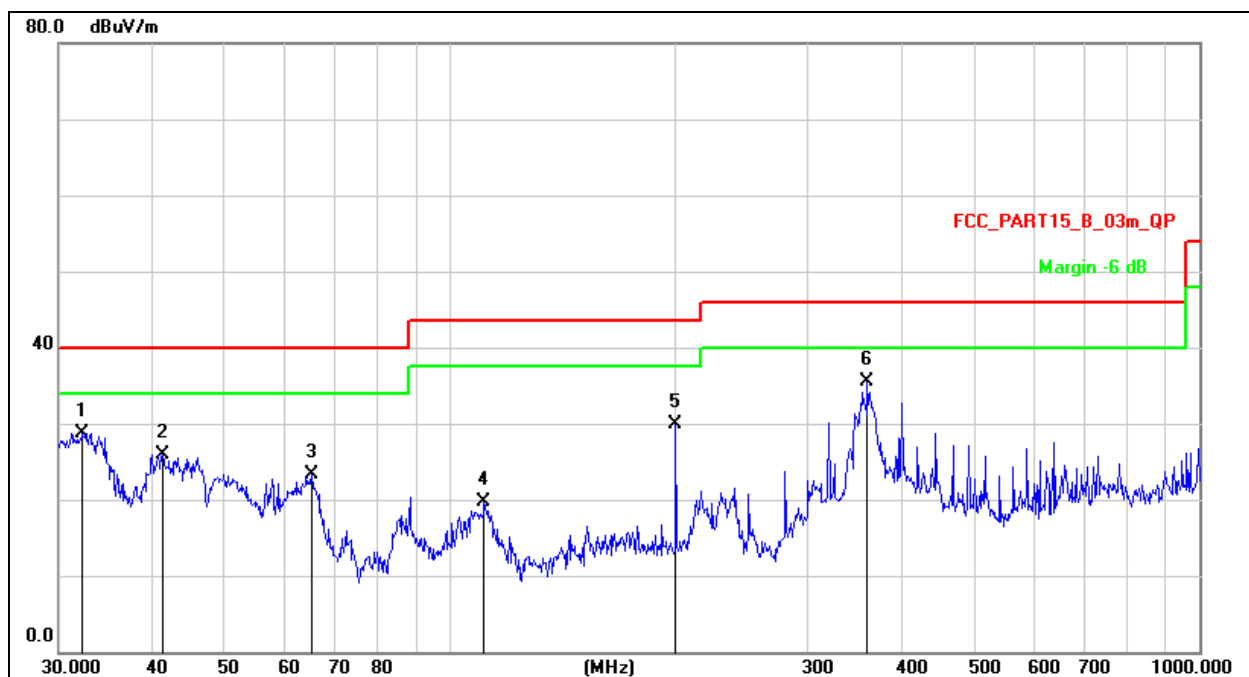


Remark:

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		30.1054	34.17	-16.63	17.54	40.00	-22.46	QP
2		47.9940	28.73	-14.06	14.67	40.00	-25.33	QP
3		112.5244	37.55	-16.81	20.74	43.50	-22.76	QP
4	*	199.9856	39.62	-15.72	23.90	43.50	-19.60	QP
5		420.5803	36.08	-10.44	25.64	46.00	-20.36	QP
6		582.7425	31.11	-8.18	22.93	46.00	-23.07	QP

Temperature:	25.5℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 3	Test Voltage :	AC120V/60Hz



Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		32.2925	45.00	-16.21	28.79	40.00	-11.21	QP
2		41.2765	40.60	-14.62	25.98	40.00	-14.02	QP
3		65.3432	40.07	-16.72	23.35	40.00	-16.65	QP
4		110.9571	36.31	-16.70	19.61	43.50	-23.89	QP
5		199.9856	45.71	-15.72	29.99	43.50	-13.51	QP
6	*	360.4476	46.83	-11.35	35.48	46.00	-10.52	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	4434.042	72.67	-20.73	51.94	68.2	-16.26	PK
Vertical	4434.042	59.11	-20.73	38.38	54	-15.62	AV
Vertical	10360.007	60.11	-9.36	50.75	68.2	-17.45	PK
Vertical	10360.007	49.60	-9.36	40.24	54	-13.76	AV
Vertical	15540.118	60.38	-7.84	52.54	74	-21.46	PK
Vertical	15540.118	49.44	-7.84	41.60	54	-12.40	AV
Horizontal	4434.005	72.90	-20.73	52.17	68.2	-16.03	PK
Horizontal	4434.005	59.41	-20.73	38.68	54	-15.32	AV
Horizontal	10360.069	64.96	-9.36	55.60	68.2	-12.60	PK
Horizontal	10360.069	49.49	-9.36	40.13	54	-13.87	AV
Horizontal	15540.056	63.29	-7.84	55.45	74	-18.55	PK
Horizontal	15540.056	49.41	-7.84	41.57	54	-12.43	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.181	74.09	-20.42	53.67	74	-20.33	PK
Vertical	4592.181	59.29	-20.42	38.88	54	-15.12	AV
Vertical	10400.139	60.72	-9.30	51.42	68.2	-16.78	PK
Vertical	10400.139	49.17	-9.30	39.87	54	-14.13	AV
Vertical	15600.102	63.31	-7.82	55.49	74	-18.51	PK
Vertical	15600.102	49.58	-7.82	41.76	54	-12.24	AV
Horizontal	4592.095	74.33	-20.42	53.91	74	-20.09	PK
Horizontal	4592.095	59.26	-20.42	38.84	54	-15.16	AV
Horizontal	10400.193	63.78	-9.30	54.48	68.2	-13.72	PK
Horizontal	10400.193	49.90	-9.30	40.60	54	-13.40	AV
Horizontal	15600.128	61.63	-7.82	53.81	74	-20.19	PK
Horizontal	15600.128	49.86	-7.82	42.04	54	-11.96	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.134	70.42	-20.12	50.30	74	-23.70	PK
Vertical	4739.134	59.11	-20.12	38.99	54	-15.01	AV
Vertical	10480.143	62.34	-9.18	53.16	68.2	-15.04	PK
Vertical	10480.143	49.53	-9.18	40.35	54	-13.65	AV
Vertical	15720.009	64.67	-7.78	56.89	74	-17.11	PK
Vertical	15720.009	49.93	-7.78	42.15	54	-11.85	AV
Horizontal	4739.160	71.60	-20.12	51.48	74	-22.52	PK
Horizontal	4739.160	59.94	-20.12	39.82	54	-14.18	AV
Horizontal	10480.022	63.80	-9.18	54.62	68.2	-13.58	PK
Horizontal	10480.022	49.13	-9.18	39.95	54	-14.05	AV
Horizontal	15720.074	62.56	-7.78	54.78	74	-19.22	PK
Horizontal	15720.074	49.79	-7.78	42.01	54	-11.99	AV

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

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

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

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

Test Mode:	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	4434.108	73.73	-20.73	53.00	68.2	-15.20	PK
Vertical	4434.108	59.60	-20.73	38.87	54	-15.13	AV
Vertical	10360.061	62.31	-9.36	52.95	68.2	-15.25	PK
Vertical	10360.061	49.69	-9.36	40.33	54	-13.67	AV
Vertical	15540.136	60.64	-7.84	52.80	74	-21.20	PK
Vertical	15540.136	49.05	-7.84	41.21	54	-12.79	AV
Horizontal	4434.051	72.98	-20.73	52.25	68.2	-15.95	PK
Horizontal	4434.051	59.92	-20.73	39.19	54	-14.81	AV
Horizontal	10360.034	62.51	-9.36	53.15	68.2	-15.05	PK
Horizontal	10360.034	49.52	-9.36	40.16	54	-13.84	AV
Horizontal	15540.028	61.33	-7.84	53.49	74	-20.51	PK
Horizontal	15540.028	49.44	-7.84	41.60	54	-12.40	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.066	70.57	-20.42	50.15	74	-23.85	PK
Vertical	4592.066	59.30	-20.42	38.88	54	-15.12	AV
Vertical	10400.042	64.62	-9.30	55.32	68.2	-12.88	PK
Vertical	10400.042	49.37	-9.30	40.07	54	-13.93	AV
Vertical	15600.141	62.99	-7.82	55.17	74	-18.83	PK
Vertical	15600.141	49.08	-7.82	41.26	54	-12.74	AV
Horizontal	4592.169	71.80	-20.42	51.38	74	-22.62	PK
Horizontal	4592.169	59.87	-20.42	39.45	54	-14.55	AV
Horizontal	10400.083	64.44	-9.30	55.14	68.2	-13.06	PK
Horizontal	10400.083	49.46	-9.30	40.16	54	-13.84	AV
Horizontal	15600.020	60.21	-7.82	52.39	74	-21.61	PK
Horizontal	15600.020	49.06	-7.82	41.24	54	-12.76	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.171	72.70	-20.12	52.58	74	-21.42	PK
Vertical	4739.171	59.18	-20.12	39.06	54	-14.94	AV
Vertical	10480.140	62.80	-9.18	53.62	68.2	-14.58	PK
Vertical	10480.140	49.85	-9.18	40.67	54	-13.33	AV
Vertical	15720.073	60.14	-7.78	52.36	74	-21.64	PK
Vertical	15720.073	49.91	-7.78	42.13	54	-11.87	AV
Horizontal	4739.152	71.91	-20.12	51.79	74	-22.21	PK
Horizontal	4739.152	59.62	-20.12	39.50	54	-14.50	AV
Horizontal	10480.021	62.53	-9.18	53.35	68.2	-14.85	PK
Horizontal	10480.021	49.31	-9.18	40.13	54	-13.87	AV
Horizontal	15720.002	61.68	-7.78	53.90	74	-20.10	PK
Horizontal	15720.002	49.02	-7.78	41.24	54	-12.76	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	4434.050	71.98	-20.73	51.24	68.2	-16.96	PK
Vertical	4434.050	59.57	-20.73	38.84	54	-15.16	AV
Vertical	10380.112	61.18	-9.33	51.85	68.2	-16.35	PK
Vertical	10380.112	49.53	-9.33	40.20	54	-13.80	AV
Vertical	15570.004	62.21	-7.83	54.38	74	-19.62	PK
Vertical	15570.004	49.97	-7.83	42.14	54	-11.86	AV
Horizontal	4434.105	71.28	-20.73	50.55	74	-23.45	PK
Horizontal	4434.105	59.54	-20.73	38.81	54	-15.19	AV
Horizontal	10380.140	62.48	-9.33	53.15	68.2	-15.05	PK
Horizontal	10380.140	49.44	-9.33	40.11	54	-13.89	AV
Horizontal	15570.105	61.69	-7.83	53.86	74	-20.14	PK
Horizontal	15570.105	49.40	-7.83	41.57	54	-12.43	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.167	72.14	-20.12	52.02	68.2	-16.18	PK
Vertical	4739.167	59.48	-20.12	39.36	54	-14.64	AV
Vertical	10460.026	63.59	-9.21	54.38	68.2	-13.82	PK
Vertical	10460.026	49.88	-9.21	40.67	54	-13.33	AV
Vertical	15690.191	62.42	-7.79	54.63	74	-19.37	PK
Vertical	15690.191	49.66	-7.79	41.87	54	-12.13	AV
Horizontal	4739.003	73.88	-20.12	53.76	68.2	-14.44	PK
Horizontal	4739.003	59.97	-20.12	39.85	54	-14.15	AV
Horizontal	10460.156	60.29	-9.21	51.08	68.2	-17.12	PK
Horizontal	10460.156	49.19	-9.21	39.98	54	-14.02	AV
Horizontal	15690.196	61.87	-7.79	54.08	74	-19.92	PK
Horizontal	15690.196	49.42	-7.79	41.63	54	-12.37	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	4434.189	73.59	-20.73	52.86	68.2	-15.34	PK
Vertical	4434.189	59.41	-20.73	38.68	54	-15.32	AV
Vertical	10360.078	62.36	-9.36	53.00	68.2	-15.20	PK
Vertical	10360.078	49.13	-9.36	39.77	54	-14.23	AV
Vertical	15540.060	61.88	-7.84	54.04	74	-19.96	PK
Vertical	15540.060	49.71	-7.84	41.87	54	-12.13	AV
Horizontal	4434.160	70.12	-20.73	49.39	68.2	-18.81	PK
Horizontal	4434.160	59.94	-20.73	39.21	54	-14.79	AV
Horizontal	10360.032	62.48	-9.36	53.12	68.2	-15.08	PK
Horizontal	10360.032	49.58	-9.36	40.22	54	-13.78	AV
Horizontal	15540.179	61.50	-7.84	53.66	74	-20.34	PK
Horizontal	15540.179	49.50	-7.84	41.66	54	-12.34	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.048	71.44	-20.42	51.02	74	-22.98	PK
Vertical	4592.048	59.24	-20.42	38.82	54	-15.18	AV
Vertical	10400.187	61.34	-9.30	52.04	68.2	-16.16	PK
Vertical	10400.187	49.22	-9.30	39.92	54	-14.08	AV
Vertical	15600.073	64.82	-7.82	57.00	74	-17.00	PK
Vertical	15600.073	49.39	-7.82	41.57	54	-12.43	AV
Horizontal	4592.047	72.89	-20.42	52.48	74	-21.52	PK
Horizontal	4592.047	59.68	-20.42	39.26	54	-14.74	AV
Horizontal	10400.068	62.61	-9.30	53.31	68.2	-14.89	PK
Horizontal	10400.068	49.83	-9.30	40.53	54	-13.47	AV
Horizontal	15600.109	64.84	-7.82	57.02	74	-16.98	PK
Horizontal	15600.109	49.87	-7.82	42.05	54	-11.95	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.036	71.38	-20.12	51.26	74	-22.74	PK
Vertical	4739.036	59.92	-20.12	39.80	54	-14.20	AV
Vertical	10480.091	60.54	-9.18	51.36	68.2	-16.84	PK
Vertical	10480.091	49.16	-9.18	39.98	54	-14.02	AV
Vertical	15720.074	60.19	-7.78	52.41	74	-21.59	PK
Vertical	15720.074	49.48	-7.78	41.70	54	-12.30	AV
Horizontal	4739.085	71.57	-20.12	51.44	74	-22.56	PK
Horizontal	4739.085	59.21	-20.12	39.08	54	-14.92	AV
Horizontal	10480.165	62.02	-9.18	52.84	68.2	-15.36	PK
Horizontal	10480.165	49.89	-9.18	40.71	54	-13.29	AV
Horizontal	15720.002	60.83	-7.78	53.05	74	-20.95	PK
Horizontal	15720.002	49.34	-7.78	41.56	54	-12.44	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	4434.180	74.00	-20.73	53.27	68.2	-14.93	PK
Vertical	4434.180	59.73	-20.73	39.00	54	-15.00	AV
Vertical	10380.146	63.30	-9.33	53.97	68.2	-14.23	PK
Vertical	10380.146	49.88	-9.33	40.55	54	-13.45	AV
Vertical	15570.068	61.84	-7.83	54.01	74	-19.99	PK
Vertical	15570.068	49.52	-7.83	41.69	54	-12.31	AV
Horizontal	4434.135	73.23	-20.73	52.49	74	-21.51	PK
Horizontal	4434.135	59.90	-20.73	39.17	54	-14.83	AV
Horizontal	10380.043	61.68	-9.33	52.35	68.2	-15.85	PK
Horizontal	10380.043	49.19	-9.33	39.86	54	-14.14	AV
Horizontal	15570.162	64.39	-7.83	56.56	74	-17.44	PK
Horizontal	15570.162	49.15	-7.83	41.32	54	-12.68	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.036	74.65	-20.12	54.53	68.2	-13.67	PK
Vertical	4739.036	59.24	-20.12	39.12	54	-14.88	AV
Vertical	10460.077	61.81	-9.21	52.60	68.2	-15.60	PK
Vertical	10460.077	49.70	-9.21	40.49	54	-13.51	AV
Vertical	15690.146	60.24	-7.79	52.45	74	-21.55	PK
Vertical	15690.146	49.35	-7.79	41.56	54	-12.44	AV
Horizontal	4739.032	74.80	-20.12	54.67	68.2	-13.53	PK
Horizontal	4739.032	59.64	-20.12	39.52	54	-14.48	AV
Horizontal	10460.117	62.73	-9.21	53.52	68.2	-14.68	PK
Horizontal	10460.117	49.71	-9.21	40.50	54	-13.50	AV
Horizontal	15690.109	61.73	-7.79	53.94	74	-20.06	PK
Horizontal	15690.109	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.

Test Mode:	TX(5.1G) - 802.11ax-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	4434.023	73.22	-20.73	52.49	68.2	-15.71	PK
Vertical	4434.023	59.56	-20.73	38.83	54	-15.17	AV
Vertical	10360.112	61.37	-9.36	52.01	68.2	-16.19	PK
Vertical	10360.112	49.93	-9.36	40.57	54	-13.43	AV
Vertical	15540.063	62.86	-7.84	55.02	74	-18.98	PK
Vertical	15540.063	49.54	-7.84	41.70	54	-12.30	AV
Horizontal	4434.052	71.46	-20.73	50.73	68.2	-17.47	PK
Horizontal	4434.052	59.14	-20.73	38.41	54	-15.59	AV
Horizontal	10360.186	60.68	-9.36	51.32	68.2	-16.88	PK
Horizontal	10360.186	49.45	-9.36	40.09	54	-13.91	AV
Horizontal	15540.177	63.93	-7.84	56.09	74	-17.91	PK
Horizontal	15540.177	49.08	-7.84	41.24	54	-12.76	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.006	72.57	-20.42	52.16	74	-21.84	PK
Vertical	4592.006	59.92	-20.42	39.50	54	-14.50	AV
Vertical	10400.030	63.58	-9.30	54.28	68.2	-13.92	PK
Vertical	10400.030	49.83	-9.30	40.53	54	-13.47	AV
Vertical	15600.157	61.10	-7.82	53.28	74	-20.72	PK
Vertical	15600.157	49.23	-7.82	41.41	54	-12.59	AV
Horizontal	4592.167	72.59	-20.42	52.18	74	-21.82	PK
Horizontal	4592.167	59.07	-20.42	38.66	54	-15.34	AV
Horizontal	10400.059	63.12	-9.30	53.82	68.2	-14.38	PK
Horizontal	10400.059	49.98	-9.30	40.68	54	-13.32	AV
Horizontal	15600.047	62.14	-7.82	54.32	74	-19.68	PK
Horizontal	15600.047	49.59	-7.82	41.77	54	-12.23	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.153	71.09	-20.12	50.96	74	-23.04	PK
Vertical	4739.153	59.83	-20.12	39.70	54	-14.30	AV
Vertical	10480.173	60.92	-9.18	51.74	68.2	-16.46	PK
Vertical	10480.173	49.03	-9.18	39.85	54	-14.15	AV
Vertical	15720.181	63.28	-7.78	55.50	74	-18.50	PK
Vertical	15720.181	49.82	-7.78	42.04	54	-11.96	AV
Horizontal	4739.023	72.06	-20.12	51.94	74	-22.06	PK
Horizontal	4739.023	59.52	-20.12	39.40	54	-14.60	AV
Horizontal	10480.091	64.66	-9.18	55.48	68.2	-12.72	PK
Horizontal	10480.091	49.99	-9.18	40.81	54	-13.19	AV
Horizontal	15720.064	60.89	-7.78	53.11	74	-20.89	PK
Horizontal	15720.064	49.46	-7.78	41.68	54	-12.32	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-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	4434.125	73.74	-20.73	53.01	68.2	-15.19	PK
Vertical	4434.125	59.64	-20.73	38.91	54	-15.09	AV
Vertical	10380.162	63.13	-9.33	53.80	68.2	-14.40	PK
Vertical	10380.162	49.70	-9.33	40.37	54	-13.63	AV
Vertical	15570.013	64.82	-7.83	56.99	74	-17.01	PK
Vertical	15570.013	49.91	-7.83	42.08	54	-11.92	AV
Horizontal	4434.002	70.27	-20.73	49.54	74	-24.46	PK
Horizontal	4434.002	59.12	-20.73	38.39	54	-15.61	AV
Horizontal	10380.122	61.85	-9.33	52.52	68.2	-15.68	PK
Horizontal	10380.122	49.87	-9.33	40.54	54	-13.46	AV
Horizontal	15570.168	63.35	-7.83	55.52	74	-18.48	PK
Horizontal	15570.168	49.87	-7.83	42.04	54	-11.96	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.185	70.58	-20.12	50.46	68.2	-17.74	PK
Vertical	4739.185	59.69	-20.12	39.57	54	-14.43	AV
Vertical	10460.133	63.30	-9.21	54.09	68.2	-14.11	PK
Vertical	10460.133	49.11	-9.21	39.90	54	-14.10	AV
Vertical	15690.124	60.74	-7.79	52.95	74	-21.05	PK
Vertical	15690.124	49.11	-7.79	41.32	54	-12.68	AV
Horizontal	4739.134	70.59	-20.12	50.46	68.2	-17.74	PK
Horizontal	4739.134	59.90	-20.12	39.78	54	-14.22	AV
Horizontal	10460.003	64.99	-9.21	55.78	68.2	-12.42	PK
Horizontal	10460.003	49.34	-9.21	40.13	54	-13.87	AV
Horizontal	15690.001	61.83	-7.79	54.04	74	-19.96	PK
Horizontal	15690.001	49.22	-7.79	41.43	54	-12.57	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	4679.086	74.63	-20.24	54.38	74	-19.62	PK
Vertical	4679.086	59.38	-20.24	39.14	54	-14.86	AV
Vertical	11490.016	64.39	-8.79	55.60	68.2	-12.60	PK
Vertical	11490.016	49.37	-8.79	40.58	54	-13.42	AV
Vertical	17235.199	56.50	-3.18	53.32	68.2	-14.88	PK
Vertical	17235.199	44.05	-3.18	40.87	54	-13.13	AV
Horizontal	4679.080	73.29	-20.73	52.56	74	-21.44	PK
Horizontal	4679.080	59.24	-20.73	38.51	54	-15.49	AV
Horizontal	11490.044	62.86	-8.79	54.07	68.2	-14.13	PK
Horizontal	11490.044	49.81	-8.79	41.02	54	-12.98	AV
Horizontal	17235.167	55.87	-3.18	52.69	68.2	-15.51	PK
Horizontal	17235.167	44.22	-3.18	41.04	54	-12.96	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.163	73.81	-20.42	53.39	74	-20.61	PK
Vertical	4592.163	59.71	-20.42	39.29	54	-14.71	AV
Vertical	11570.098	62.37	-8.86	53.51	68.2	-14.69	PK
Vertical	11570.098	49.74	-8.86	40.88	54	-13.12	AV
Vertical	17355.111	58.05	-2.52	55.53	68.2	-12.67	PK
Vertical	17355.111	44.73	-2.52	42.21	54	-11.79	AV
Horizontal	4592.098	70.71	-20.42	50.29	74	-23.71	PK
Horizontal	4592.098	59.62	-20.42	39.21	54	-14.79	AV
Horizontal	11570.168	63.70	-8.86	54.84	68.2	-13.36	PK
Horizontal	11570.168	49.28	-8.86	40.42	54	-13.58	AV
Horizontal	17355.010	57.54	-2.52	55.02	68.2	-13.18	PK
Horizontal	17355.010	44.30	-2.52	41.78	54	-12.22	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.107	74.33	-18.93	55.40	68.2	-12.80	PK
Vertical	6039.107	59.14	-18.93	40.21	54	-13.79	AV
Vertical	11650.153	62.66	-8.92	53.74	74	-20.26	PK
Vertical	11650.153	49.82	-8.92	40.90	54	-13.10	AV
Vertical	17475.004	59.17	-1.86	57.31	68.2	-10.89	PK
Vertical	17475.004	44.69	-1.86	42.83	54	-11.17	AV
Horizontal	6039.197	74.58	-18.93	55.65	68.2	-12.55	PK
Horizontal	6039.197	59.79	-18.93	40.86	54	-13.14	AV
Horizontal	11650.175	62.90	-8.92	53.98	74	-20.02	PK
Horizontal	11650.175	49.19	-8.92	40.27	54	-13.73	AV
Horizontal	17475.166	55.40	-1.86	53.54	68.2	-14.66	PK
Horizontal	17475.166	44.49	-1.86	42.63	54	-11.37	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	4679.177	71.14	-20.24	50.90	74	-23.10	PK
Vertical	4679.177	59.07	-20.24	38.83	54	-15.17	AV
Vertical	11490.037	60.77	-8.79	51.98	68.2	-16.22	PK
Vertical	11490.037	49.58	-8.79	40.79	54	-13.21	AV
Vertical	17235.151	59.80	-3.18	56.62	68.2	-11.58	PK
Vertical	17235.151	44.70	-3.18	41.52	54	-12.48	AV
Horizontal	4679.127	72.00	-20.24	51.76	74	-22.24	PK
Horizontal	4679.127	59.85	-20.24	39.61	54	-14.39	AV
Horizontal	11490.008	63.32	-8.79	54.53	68.2	-13.67	PK
Horizontal	11490.008	49.99	-8.79	41.20	54	-12.80	AV
Horizontal	17235.135	59.00	-3.18	55.82	68.2	-12.38	PK
Horizontal	17235.135	44.72	-3.18	41.54	54	-12.46	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.088	70.72	-20.42	50.31	74	-23.69	PK
Vertical	4592.088	59.61	-20.42	39.19	54	-14.81	AV
Vertical	11570.182	61.46	-8.86	52.60	68.2	-15.60	PK
Vertical	11570.182	49.10	-8.86	40.24	54	-13.76	AV
Vertical	17355.032	55.76	-2.52	53.24	68.2	-14.96	PK
Vertical	17355.032	44.56	-2.52	42.04	54	-11.96	AV
Horizontal	4592.170	71.98	-20.42	51.57	74	-22.43	PK
Horizontal	4592.170	59.57	-20.42	39.16	54	-14.84	AV
Horizontal	11570.100	61.76	-8.86	52.90	68.2	-15.30	PK
Horizontal	11570.100	49.03	-8.86	40.17	54	-13.83	AV
Horizontal	17355.155	56.83	-2.52	54.31	68.2	-13.89	PK
Horizontal	17355.155	44.96	-2.52	42.44	54	-11.56	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.081	73.07	-18.93	54.14	68.2	-14.06	PK
Vertical	6039.081	59.29	-18.93	40.35	54	-13.65	AV
Vertical	11650.005	62.21	-8.92	53.29	74	-20.71	PK
Vertical	11650.005	49.55	-8.92	40.63	54	-13.37	AV
Vertical	17475.155	55.25	-1.86	53.39	68.2	-14.81	PK
Vertical	17475.155	44.86	-1.86	43.00	54	-11.00	AV
Horizontal	6039.015	71.26	-18.93	52.33	68.2	-15.87	PK
Horizontal	6039.015	59.50	-18.93	40.56	54	-13.44	AV
Horizontal	11650.034	60.04	-8.92	51.12	74	-22.88	PK
Horizontal	11650.034	49.27	-8.92	40.35	54	-13.65	AV
Horizontal	17475.196	57.84	-1.86	55.98	68.2	-12.22	PK
Horizontal	17475.196	44.25	-1.86	42.39	54	-11.61	AV

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

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

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

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

Test Mode:	TX (5.8G) -- 802.11n-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	4679.192	71.82	-20.24	51.58	74	-22.42	PK
Vertical	4679.192	59.52	-20.24	39.28	54	-14.72	AV
Vertical	11510.017	63.50	-8.81	54.69	74	-19.31	PK
Vertical	11510.017	49.70	-8.81	40.89	54	-13.11	AV
Vertical	17265.199	55.55	-3.01	52.54	68.2	-15.66	PK
Vertical	17265.199	44.60	-3.01	41.59	54	-12.41	AV
Horizontal	4679.030	72.72	-20.24	52.48	74	-21.52	PK
Horizontal	4679.030	59.11	-20.24	38.87	54	-15.13	AV
Horizontal	11510.125	61.18	-8.81	52.37	74	-21.63	PK
Horizontal	11510.125	49.34	-8.81	40.53	54	-13.47	AV
Horizontal	17265.178	57.25	-3.01	54.24	68.2	-13.96	PK
Horizontal	17265.178	44.74	-3.01	41.73	54	-12.27	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.128	72.48	-18.93	53.55	68.2	-14.65	PK
Vertical	6039.128	59.36	-18.93	40.43	54	-13.57	AV
Vertical	11590.051	63.25	-8.87	54.38	74	-19.62	PK
Vertical	11590.051	49.79	-8.87	40.92	54	-13.08	AV
Vertical	17385.050	58.65	-2.35	56.30	68.2	-11.90	PK
Vertical	17385.050	44.05	-2.35	41.70	54	-12.30	AV
Horizontal	6039.077	72.48	-18.93	53.55	68.2	-14.65	PK
Horizontal	6039.077	59.20	-18.93	40.27	54	-13.73	AV
Horizontal	11590.161	62.38	-8.87	53.51	74	-20.49	PK
Horizontal	11590.161	49.04	-8.87	40.17	54	-13.83	AV
Horizontal	17385.099	56.64	-2.35	54.29	68.2	-13.91	PK
Horizontal	17385.099	44.49	-2.35	42.14	54	-11.86	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-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	4679.100	71.26	-20.24	51.02	74	-22.98	PK
Vertical	4679.100	59.67	-20.24	39.43	54	-14.57	AV
Vertical	11490.082	63.28	-8.79	54.49	68.2	-13.71	PK
Vertical	11490.082	49.44	-8.79	40.65	54	-13.35	AV
Vertical	17235.066	56.36	-3.18	53.18	68.2	-15.02	PK
Vertical	17235.066	44.10	-3.18	40.92	54	-13.08	AV
Horizontal	4679.084	70.78	-20.24	50.54	74	-23.46	PK
Horizontal	4679.084	59.18	-20.24	38.94	54	-15.06	AV
Horizontal	11490.178	64.74	-8.79	55.95	68.2	-12.25	PK
Horizontal	11490.178	49.70	-8.79	40.91	54	-13.09	AV
Horizontal	17235.142	59.98	-3.18	56.80	68.2	-11.40	PK
Horizontal	17235.142	44.55	-3.18	41.37	54	-12.63	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.000	71.30	-20.42	50.89	74	-23.11	PK
Vertical	4592.000	59.81	-20.42	39.39	54	-14.61	AV
Vertical	11570.095	61.61	-8.86	52.75	68.2	-15.45	PK
Vertical	11570.095	49.54	-8.86	40.68	54	-13.32	AV
Vertical	17355.068	57.00	-2.52	54.48	68.2	-13.72	PK
Vertical	17355.068	44.95	-2.52	42.43	54	-11.57	AV
Horizontal	4592.162	71.52	-20.42	51.10	74	-22.90	PK
Horizontal	4592.162	59.81	-20.42	39.40	54	-14.60	AV
Horizontal	11570.023	60.03	-8.86	51.17	68.2	-17.03	PK
Horizontal	11570.023	49.12	-8.86	40.26	54	-13.74	AV
Horizontal	17355.020	55.70	-2.52	53.18	68.2	-15.02	PK
Horizontal	17355.020	44.97	-2.52	42.45	54	-11.55	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.002	74.84	-18.93	55.90	68.2	-12.30	PK
Vertical	6039.002	59.08	-18.93	40.15	54	-13.85	AV
Vertical	11650.038	60.02	-8.92	51.10	74	-22.90	PK
Vertical	11650.038	49.28	-8.92	40.36	54	-13.64	AV
Vertical	17475.019	59.07	-1.86	57.21	68.2	-10.99	PK
Vertical	17475.019	44.06	-1.86	42.20	54	-11.80	AV
Horizontal	6039.130	73.56	-18.93	54.62	68.2	-13.58	PK
Horizontal	6039.130	59.50	-18.93	40.57	54	-13.43	AV
Horizontal	11650.155	60.90	-8.92	51.98	74	-22.02	PK
Horizontal	11650.155	49.32	-8.92	40.40	54	-13.60	AV
Horizontal	17475.153	58.73	-1.86	56.87	68.2	-11.33	PK
Horizontal	17475.153	44.79	-1.86	42.93	54	-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) -- 802.11ac-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	4679.191	73.57	-20.24	53.33	74	-20.67	PK
Vertical	4679.191	59.42	-20.24	39.17	54	-14.83	AV
Vertical	11510.003	62.05	-8.81	53.24	74	-20.76	PK
Vertical	11510.003	49.46	-8.81	40.65	54	-13.35	AV
Vertical	17265.145	59.62	-3.01	56.61	68.2	-11.59	PK
Vertical	17265.145	44.37	-3.01	41.36	54	-12.64	AV
Horizontal	4679.181	74.90	-20.24	54.66	74	-19.34	PK
Horizontal	4679.181	59.60	-20.24	39.36	54	-14.64	AV
Horizontal	11510.095	61.93	-8.81	53.12	74	-20.88	PK
Horizontal	11510.095	49.56	-8.81	40.75	54	-13.25	AV
Horizontal	17265.186	58.38	-3.01	55.37	68.2	-12.83	PK
Horizontal	17265.186	44.68	-3.01	41.67	54	-12.33	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.190	70.41	-18.93	51.48	68.2	-16.72	PK
Vertical	6039.190	59.15	-18.93	40.22	54	-13.78	AV
Vertical	11590.062	64.06	-8.87	55.19	74	-18.81	PK
Vertical	11590.062	49.86	-8.87	40.99	54	-13.01	AV
Vertical	17385.118	59.74	-2.35	57.39	68.2	-10.81	PK
Vertical	17385.118	44.81	-2.35	42.46	54	-11.54	AV
Horizontal	6039.143	74.58	-18.93	55.64	68.2	-12.56	PK
Horizontal	6039.143	59.83	-18.93	40.90	54	-13.10	AV
Horizontal	11590.004	64.02	-8.87	55.15	74	-18.85	PK
Horizontal	11590.004	49.86	-8.87	40.99	54	-13.01	AV
Horizontal	17385.138	57.15	-2.35	54.80	68.2	-13.40	PK
Horizontal	17385.138	44.57	-2.35	42.22	54	-11.78	AV

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

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

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

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

Test Mode: TX (5.8G) --802.11ax-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	4679.187	73.84	-20.24	53.60	74	-20.40	PK
Vertical	4679.187	59.98	-20.24	39.74	54	-14.26	AV
Vertical	11490.030	62.92	-8.79	54.13	68.2	-14.07	PK
Vertical	11490.030	49.28	-8.79	40.49	54	-13.51	AV
Vertical	17235.105	57.85	-3.18	54.67	68.2	-13.53	PK
Vertical	17235.105	44.70	-3.18	41.52	54	-12.48	AV
Horizontal	4679.012	74.66	-20.24	54.41	74	-19.59	PK
Horizontal	4679.012	59.24	-20.24	39.00	54	-15.00	AV
Horizontal	11490.174	64.86	-8.79	56.07	68.2	-12.13	PK
Horizontal	11490.174	49.27	-8.79	40.48	54	-13.52	AV
Horizontal	17235.057	58.99	-3.18	55.81	68.2	-12.39	PK
Horizontal	17235.057	44.18	-3.18	41.00	54	-13.00	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.176	74.03	-20.42	53.62	74	-20.38	PK
Vertical	4592.176	59.65	-20.42	39.23	54	-14.77	AV
Vertical	11570.047	61.87	-8.86	53.01	68.2	-15.19	PK
Vertical	11570.047	49.62	-8.86	40.76	54	-13.24	AV
Vertical	17355.131	55.73	-2.52	53.21	68.2	-14.99	PK
Vertical	17355.131	44.83	-2.52	42.31	54	-11.69	AV
Horizontal	4592.164	74.49	-20.42	54.07	74	-19.93	PK
Horizontal	4592.164	59.09	-20.42	38.68	54	-15.32	AV
Horizontal	11570.091	61.40	-8.86	52.54	68.2	-15.66	PK
Horizontal	11570.091	49.29	-8.86	40.43	54	-13.57	AV
Horizontal	17355.181	56.85	-2.52	54.33	68.2	-13.87	PK
Horizontal	17355.181	44.09	-2.52	41.57	54	-12.43	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.114	74.22	-18.93	55.29	68.2	-12.91	PK
Vertical	6039.114	59.50	-18.93	40.56	54	-13.44	AV
Vertical	11650.187	63.43	-8.92	54.51	74	-19.49	PK
Vertical	11650.187	49.19	-8.92	40.27	54	-13.73	AV
Vertical	17475.190	55.58	-1.86	53.72	68.2	-14.48	PK
Vertical	17475.190	44.32	-1.86	42.46	54	-11.54	AV
Horizontal	6039.047	74.11	-18.93	55.18	68.2	-13.02	PK
Horizontal	6039.047	59.62	-18.93	40.69	54	-13.31	AV
Horizontal	11650.127	62.54	-8.92	53.62	74	-20.38	PK
Horizontal	11650.127	49.12	-8.92	40.20	54	-13.80	AV
Horizontal	17475.022	57.07	-1.86	55.21	68.2	-12.99	PK
Horizontal	17475.022	44.51	-1.86	42.65	54	-11.35	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-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	4679.055	72.28	-20.24	52.04	74	-21.96	PK
Vertical	4679.055	59.22	-20.24	38.98	54	-15.02	AV
Vertical	11510.141	60.34	-8.81	51.53	74	-22.47	PK
Vertical	11510.141	49.03	-8.81	40.22	54	-13.78	AV
Vertical	17265.068	58.27	-3.01	55.26	68.2	-12.94	PK
Vertical	17265.068	44.40	-3.01	41.39	54	-12.61	AV
Horizontal	4679.090	74.05	-20.24	53.81	74	-20.19	PK
Horizontal	4679.090	59.46	-20.24	39.22	54	-14.78	AV
Horizontal	11510.028	61.12	-8.81	52.31	74	-21.69	PK
Horizontal	11510.028	49.94	-8.81	41.13	54	-12.87	AV
Horizontal	17265.138	56.61	-3.01	53.60	68.2	-14.60	PK
Horizontal	17265.138	44.83	-3.01	41.82	54	-12.18	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.038	70.99	-18.93	52.05	68.2	-16.15	PK
Vertical	6039.038	59.04	-18.93	40.11	54	-13.89	AV
Vertical	11590.053	63.22	-8.87	54.35	74	-19.65	PK
Vertical	11590.053	49.27	-8.87	40.40	54	-13.60	AV
Vertical	17385.076	59.83	-2.35	57.48	68.2	-10.72	PK
Vertical	17385.076	44.29	-2.35	41.94	54	-12.06	AV
Horizontal	6039.160	73.07	-18.93	54.13	68.2	-14.07	PK
Horizontal	6039.160	59.27	-18.93	40.34	54	-13.66	AV
Horizontal	11590.102	61.21	-8.87	52.34	74	-21.66	PK
Horizontal	11590.102	49.89	-8.87	41.02	54	-12.98	AV
Horizontal	17385.169	59.45	-2.35	57.10	68.2	-11.10	PK
Horizontal	17385.169	44.70	-2.35	42.35	54	-11.65	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

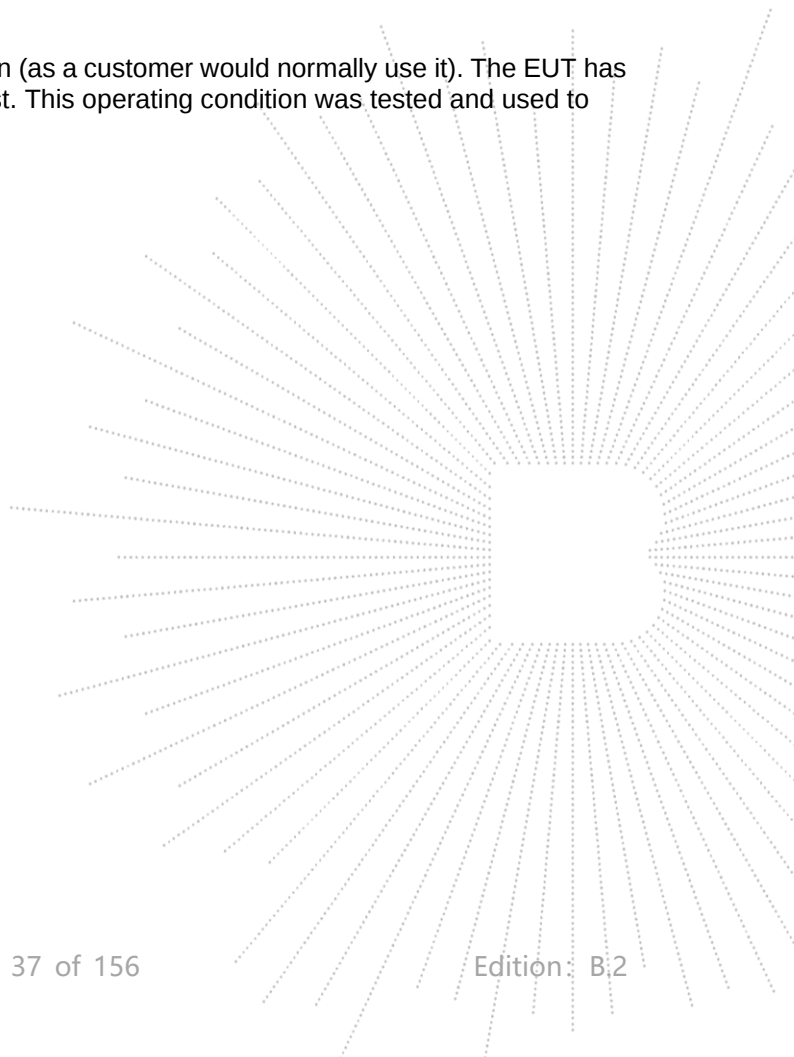
For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of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



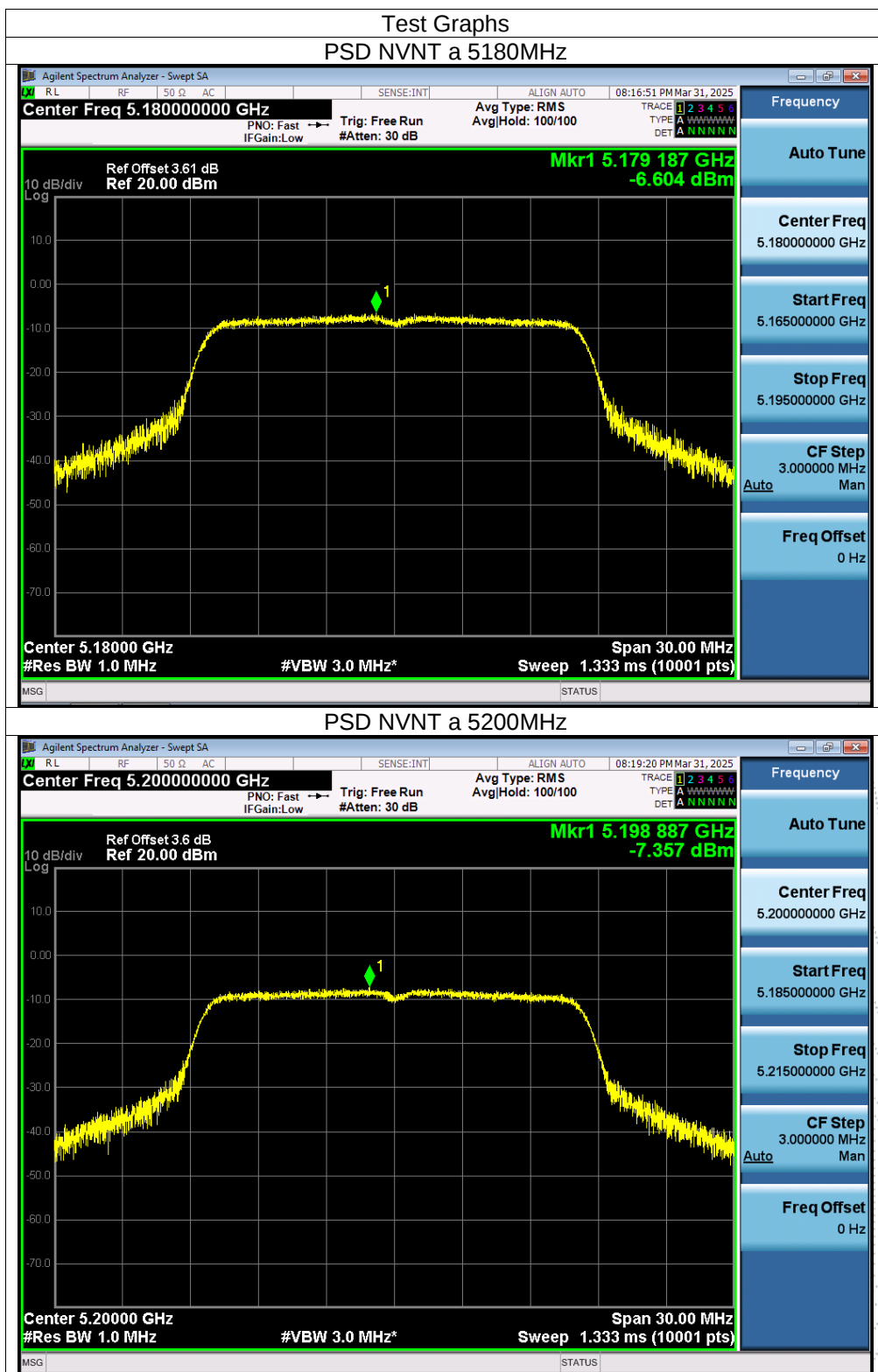
8.5 Test Result

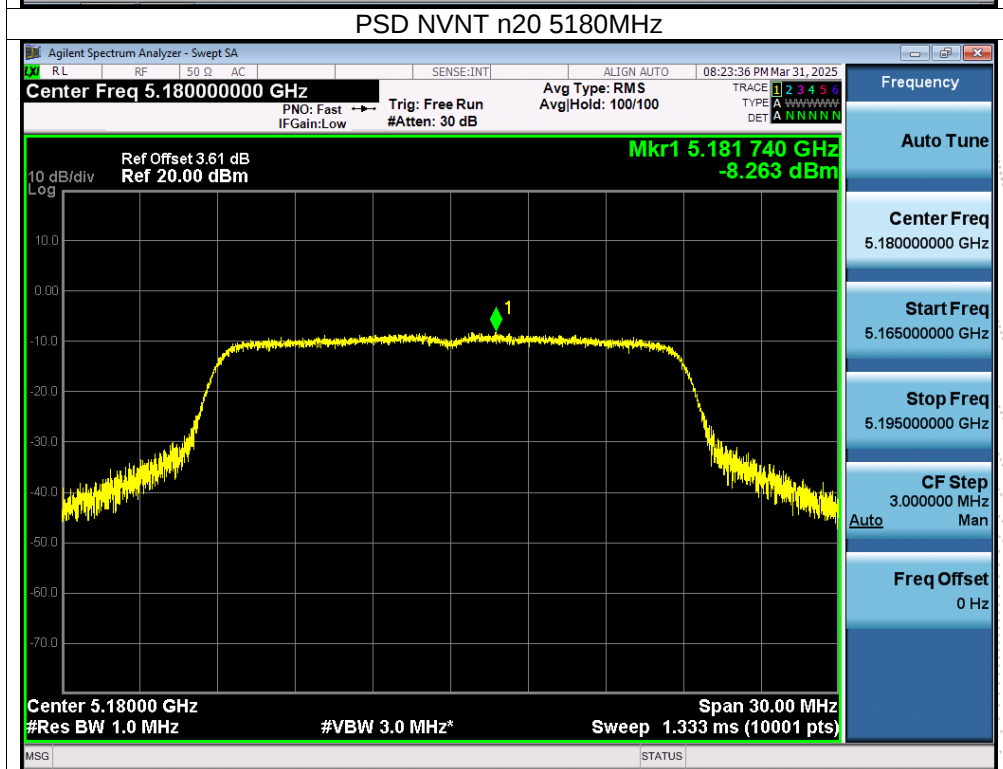
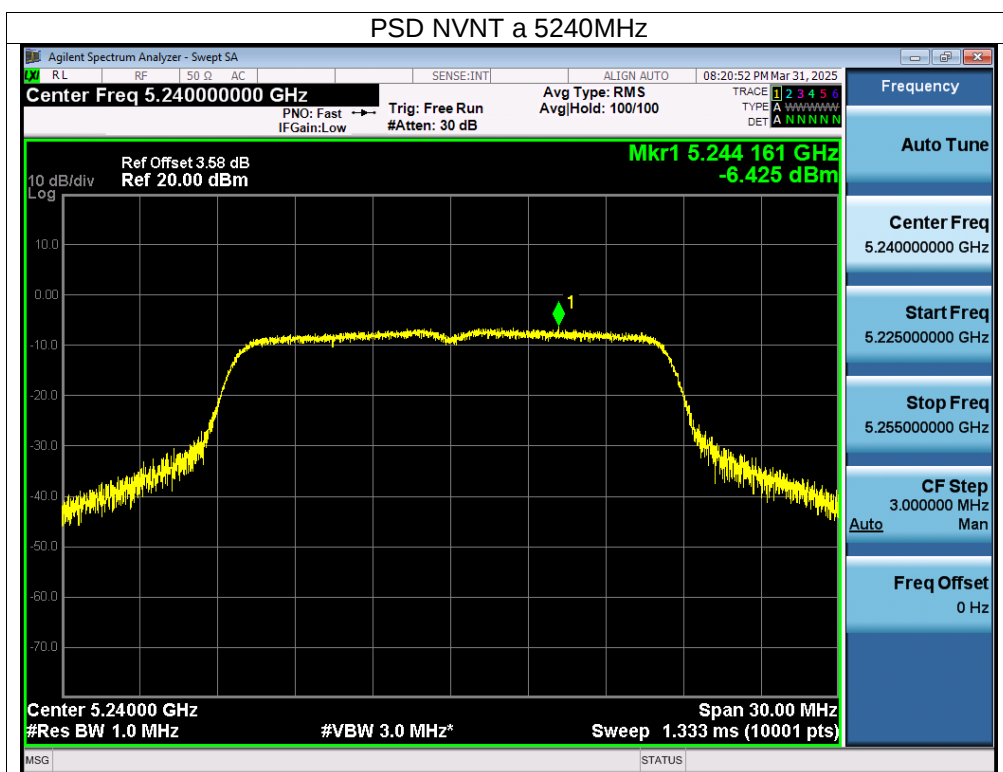
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.7V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz) TX Frequency U-NII-3(5745-5825MHz)		

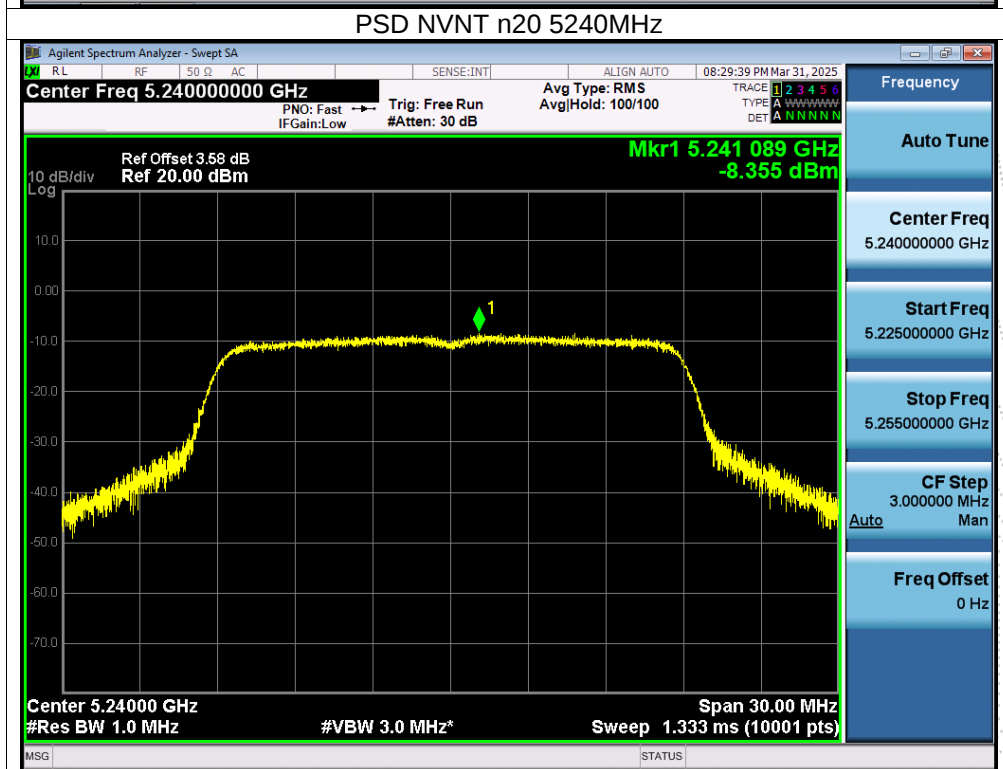
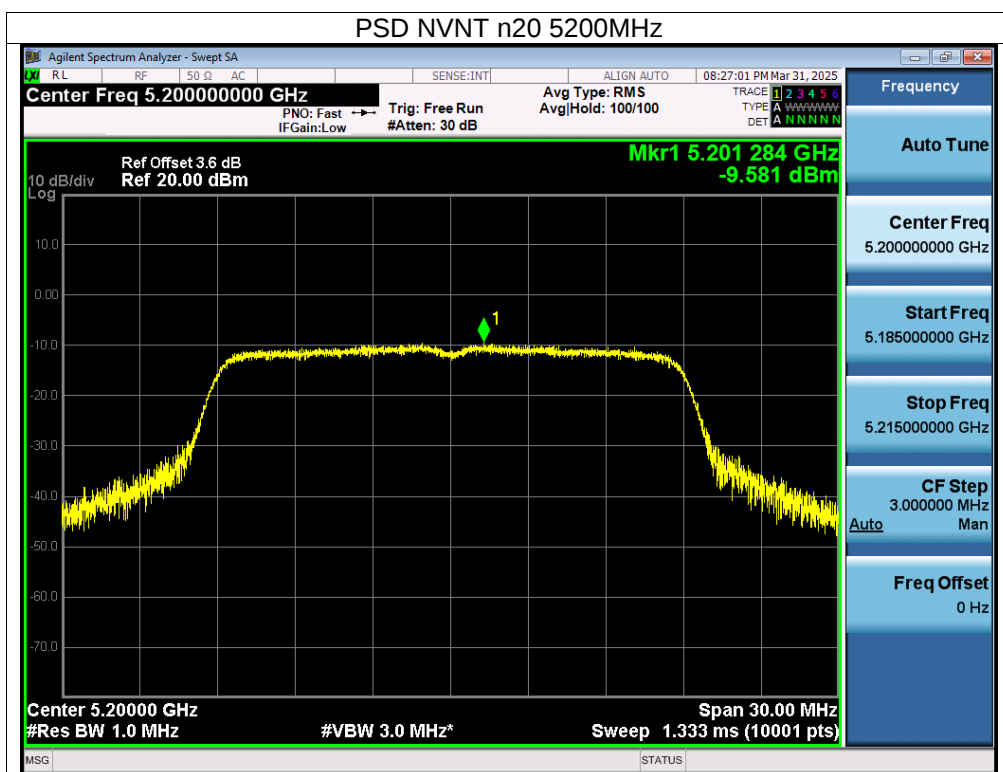
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/1MHz)	Limit (dBm/1MHz)	Verdict
NVNT	a	5180	-6.6	11	Pass
NVNT	a	5200	-7.36	11	Pass
NVNT	a	5240	-6.43	11	Pass
NVNT	n20	5180	-8.26	11	Pass
NVNT	n20	5200	-9.58	11	Pass
NVNT	n20	5240	-8.36	11	Pass
NVNT	n40	5190	-13.18	11	Pass
NVNT	n40	5230	-11.79	11	Pass
NVNT	ac20	5180	-9.57	11	Pass
NVNT	ac20	5200	-9.67	11	Pass
NVNT	ac20	5240	-8.74	11	Pass
NVNT	ac40	5190	-13.25	11	Pass
NVNT	ac40	5230	-12.31	11	Pass
NVNT	ax20	5180	-9.02	11	Pass
NVNT	ax20	5200	-9.41	11	Pass
NVNT	ax20	5240	-9.2	11	Pass
NVNT	ax40	5190	-12.75	11	Pass
NVNT	ax40	5230	-12.53	11	Pass

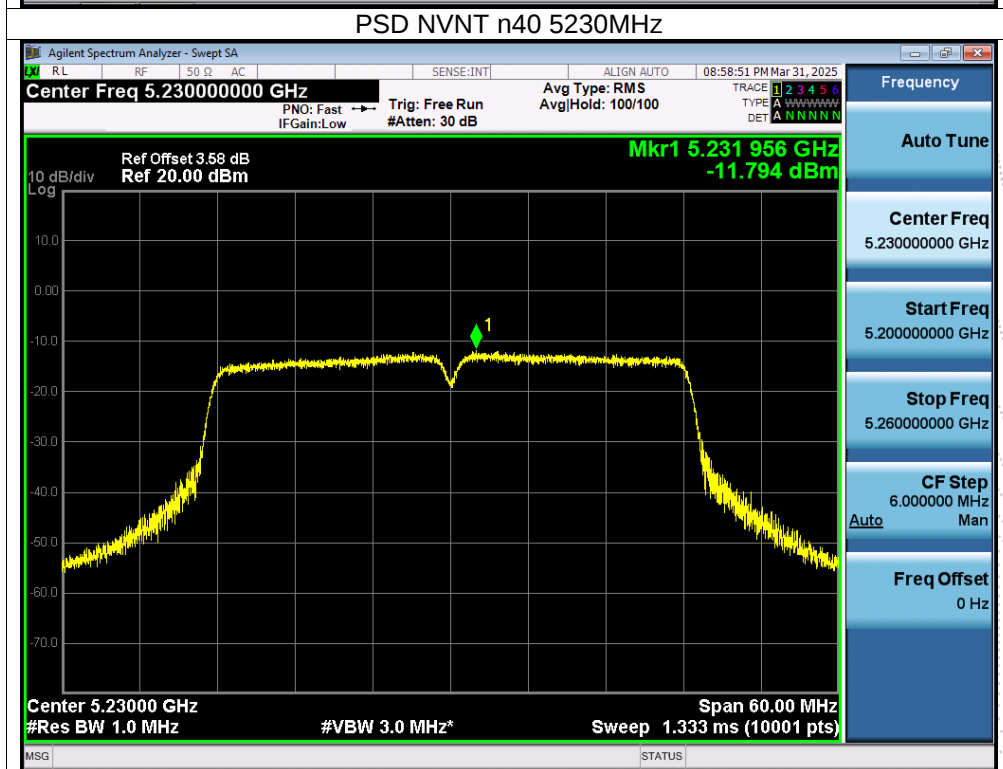
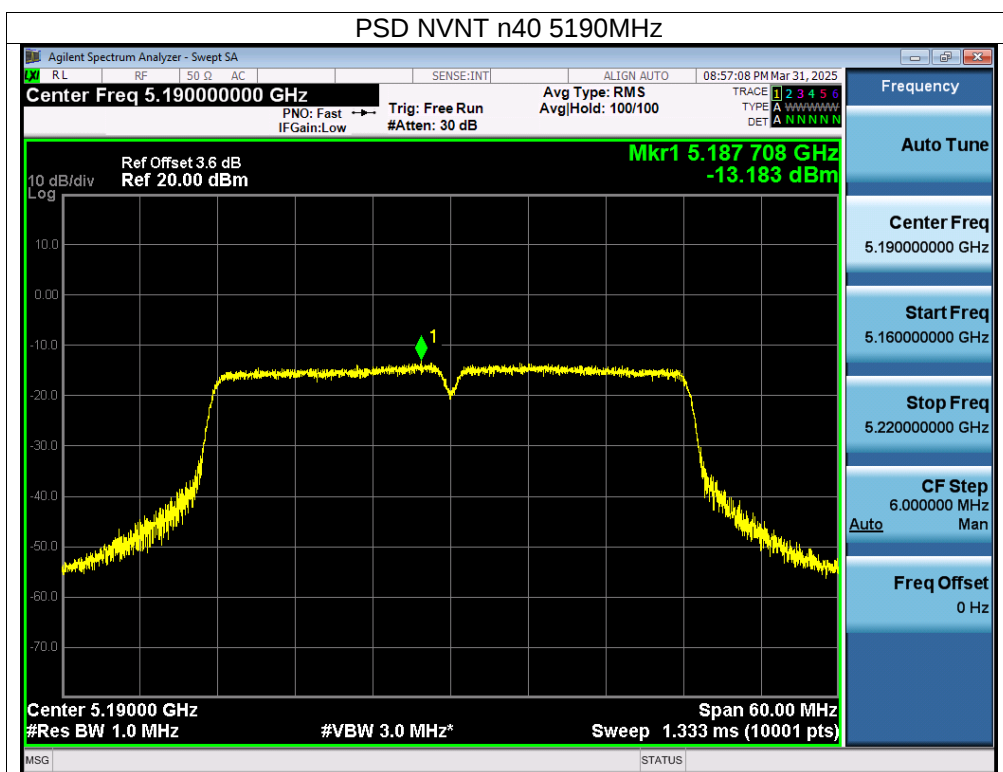
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/510KHz)	Conducted PSD (dBm/500KHz)	Limit (dBm)	Verdict
NVNT	a	5745	-8.35	-8.436	30	Pass
NVNT	a	5785	-9.45	-9.536	30	Pass
NVNT	a	5825	-10.86	-10.946	30	Pass
NVNT	n20	5745	-9.91	-9.996	30	Pass
NVNT	n20	5785	-11.48	-11.566	30	Pass
NVNT	n20	5825	-11.87	-11.956	30	Pass
NVNT	n40	5755	-12.86	-12.946	30	Pass
NVNT	n40	5795	-15.81	-15.896	30	Pass
NVNT	ac20	5745	-9.91	-9.996	30	Pass
NVNT	ac20	5785	-11.23	-11.316	30	Pass
NVNT	ac20	5825	-11.93	-12.016	30	Pass
NVNT	ac40	5755	-13.13	-13.216	30	Pass
NVNT	ac40	5795	-16.75	-16.836	30	Pass
NVNT	ax20	5745	-9.47	-9.556	30	Pass
NVNT	ax20	5785	-11.38	-11.466	30	Pass
NVNT	ax20	5825	-12.45	-12.536	30	Pass
NVNT	ax40	5755	-13.12	-13.206	30	Pass
NVNT	ax40	5795	-17.44	-17.526	30	Pass

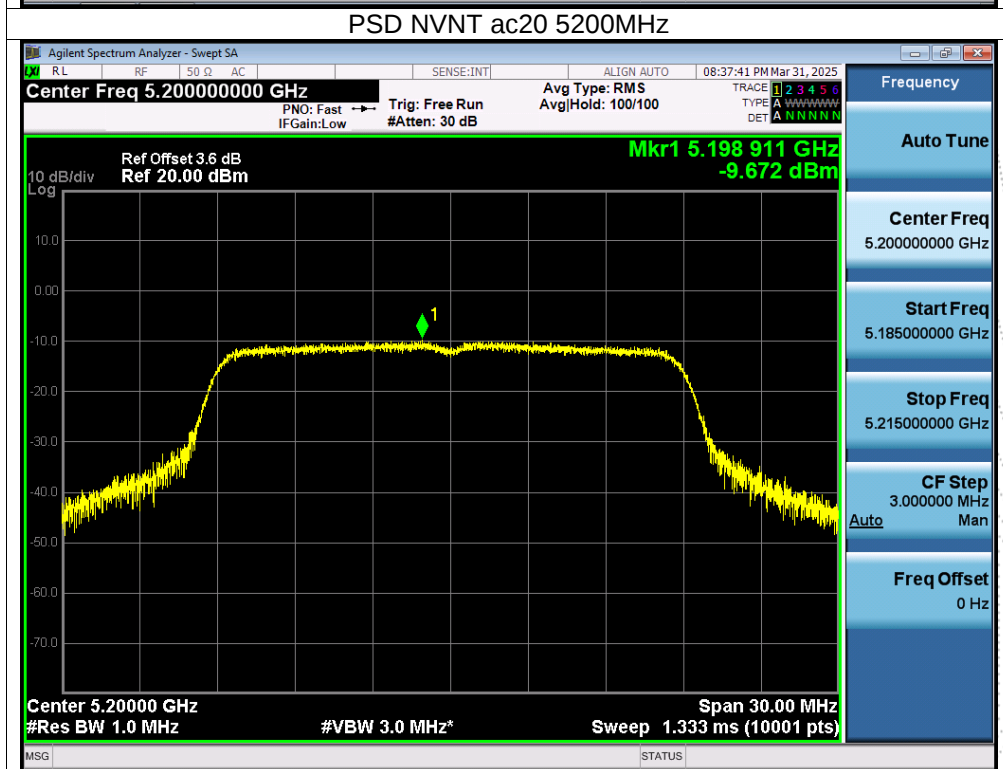
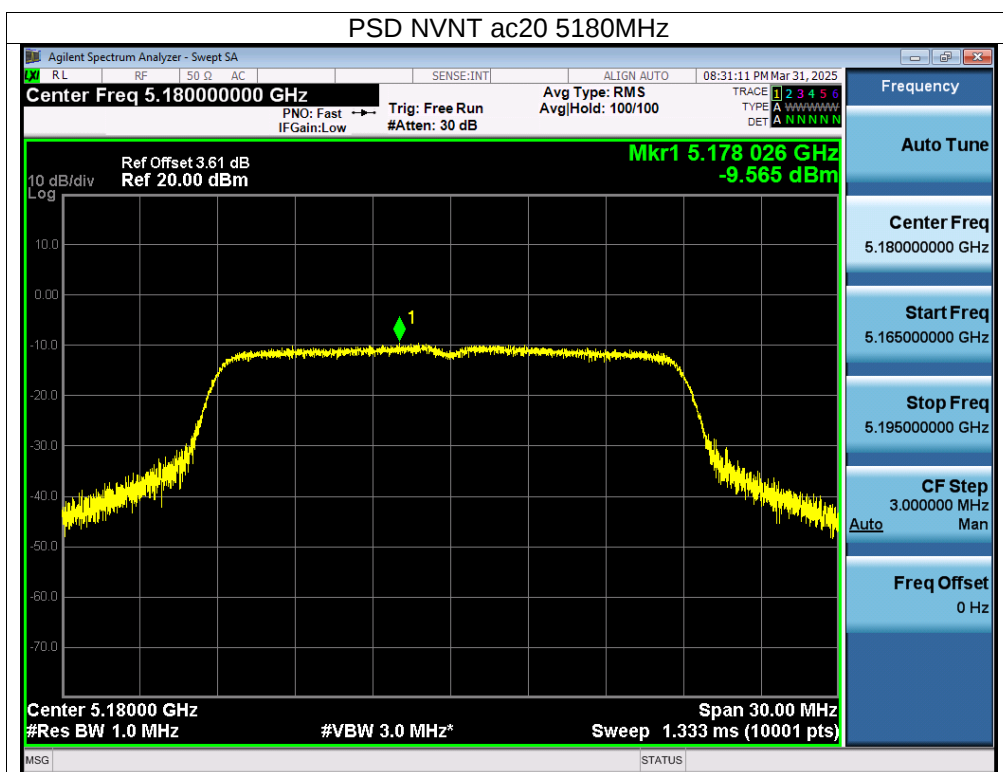
Note: Correction Factor = $10\log(500\text{KHz}/\text{RBW in measurement}) = -0.086$

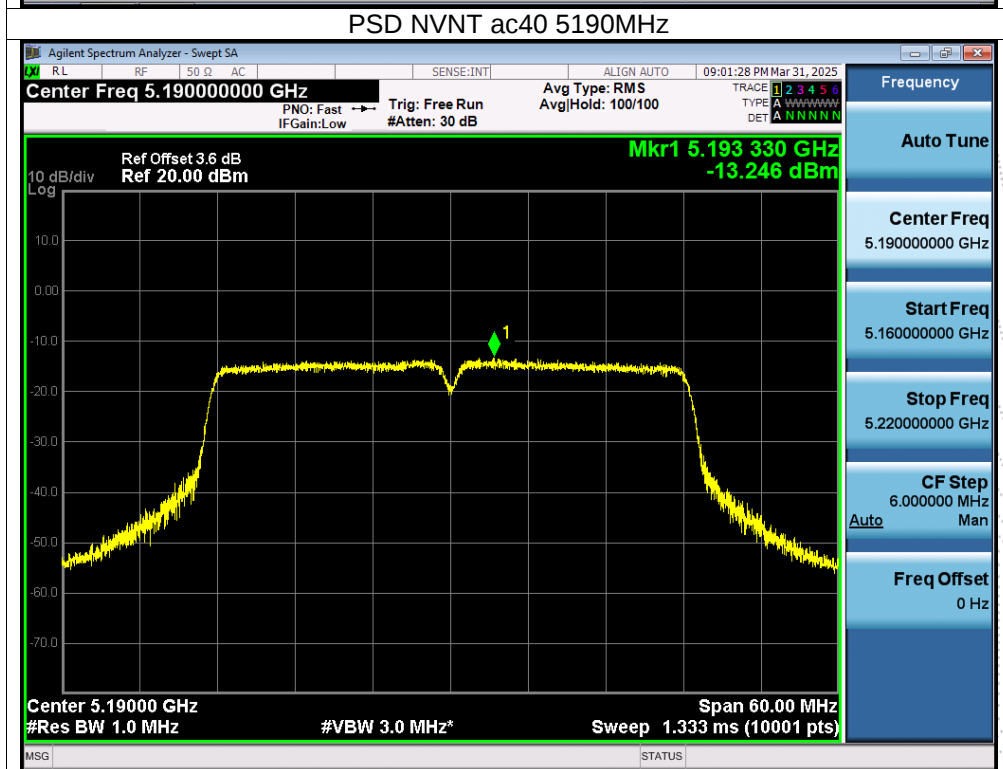
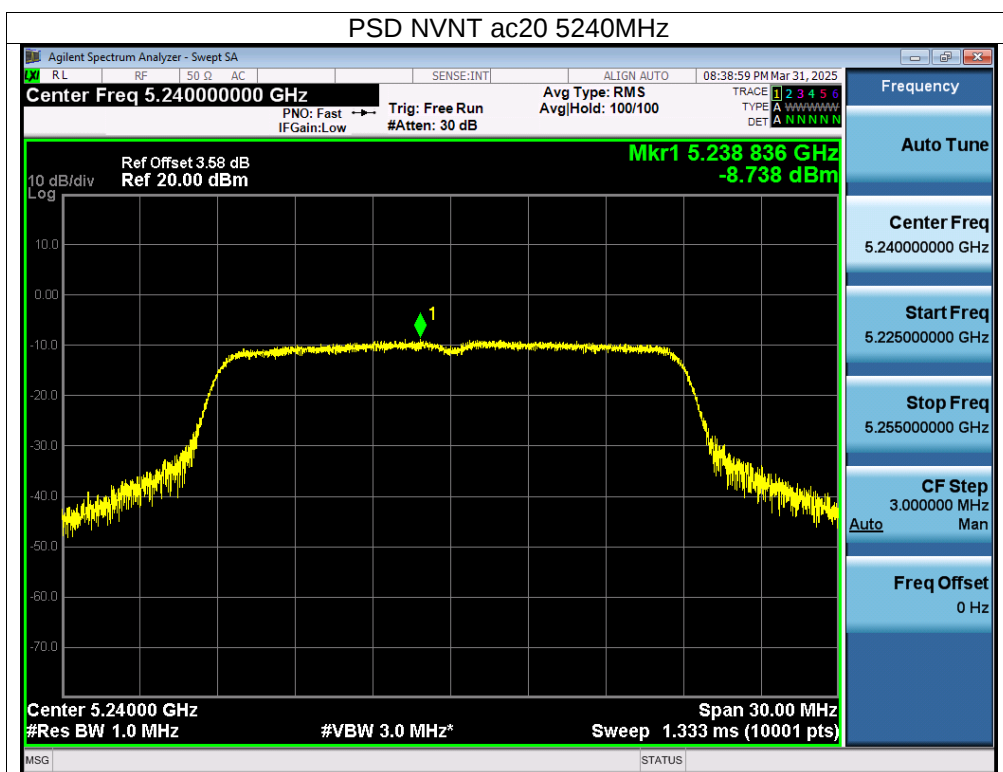


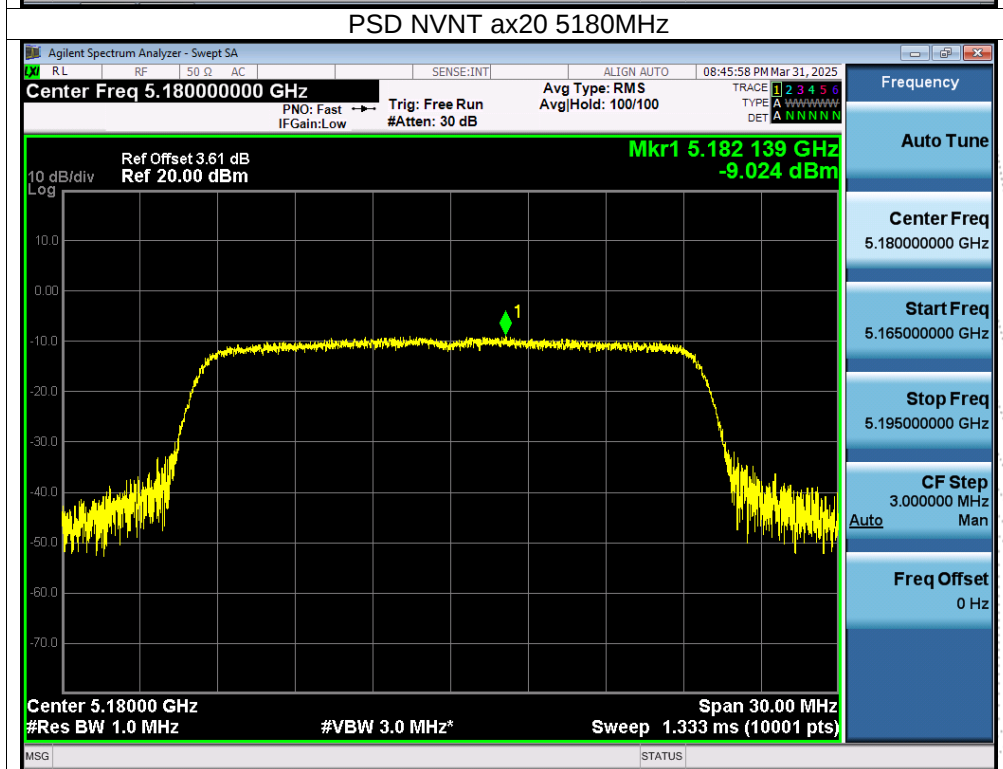
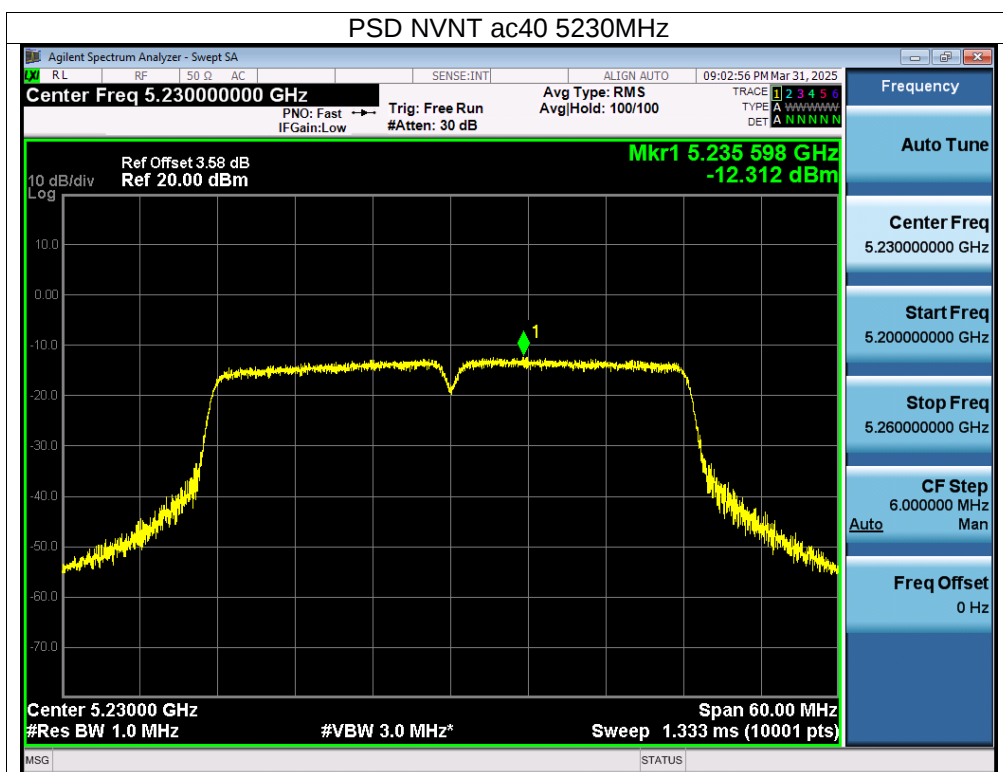


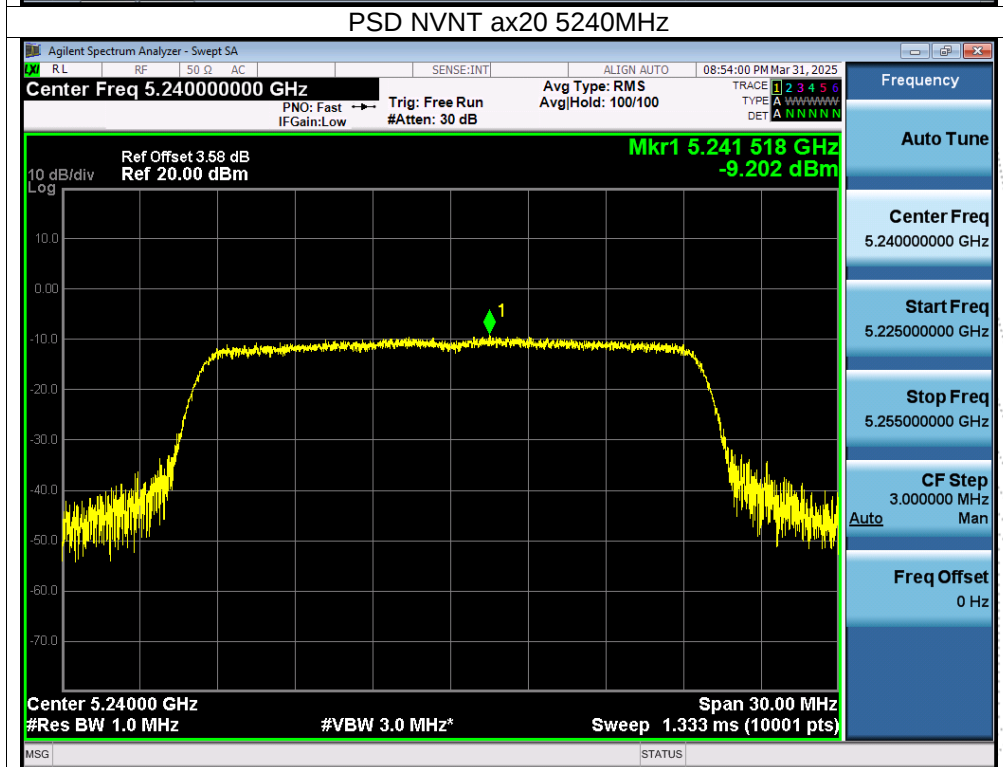
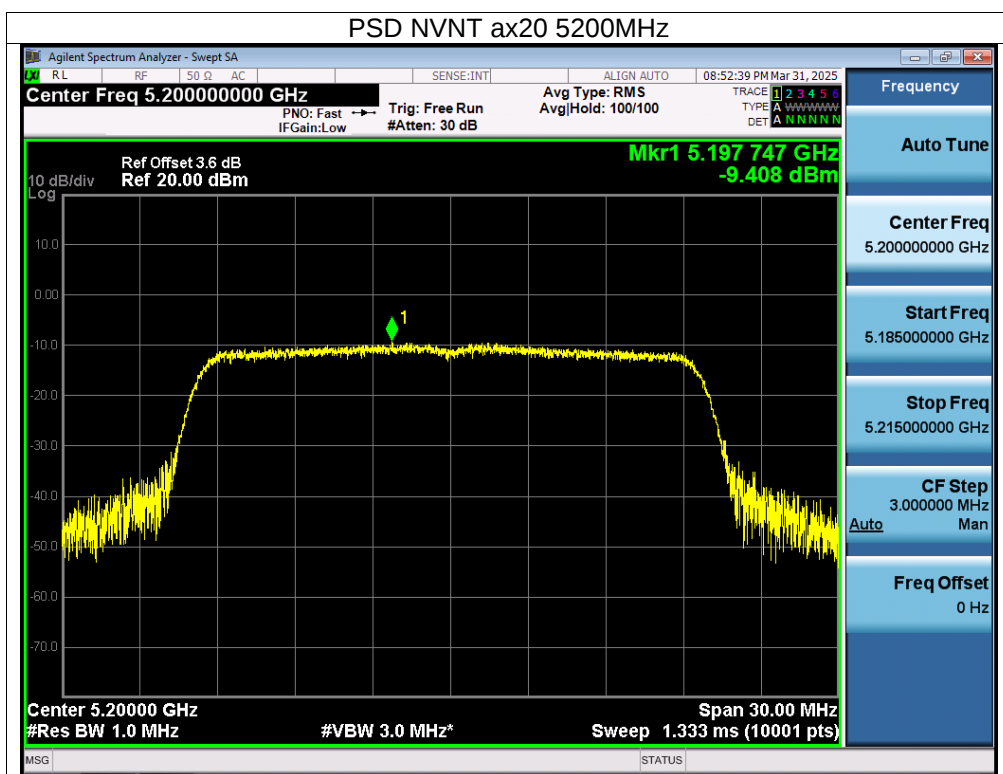


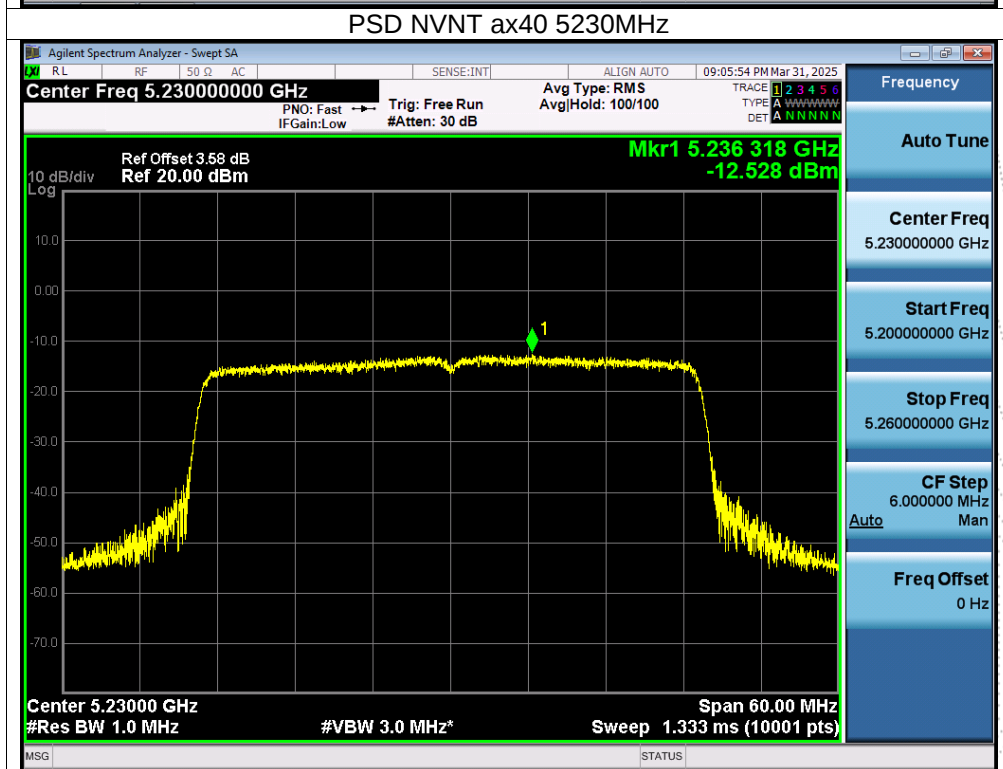
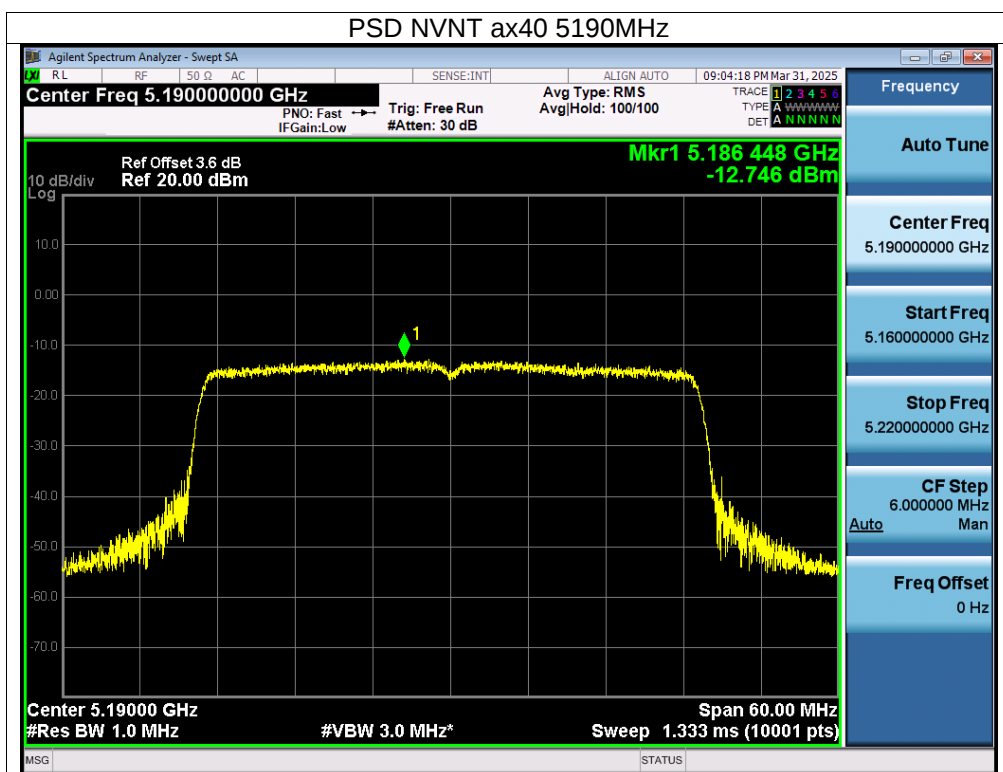


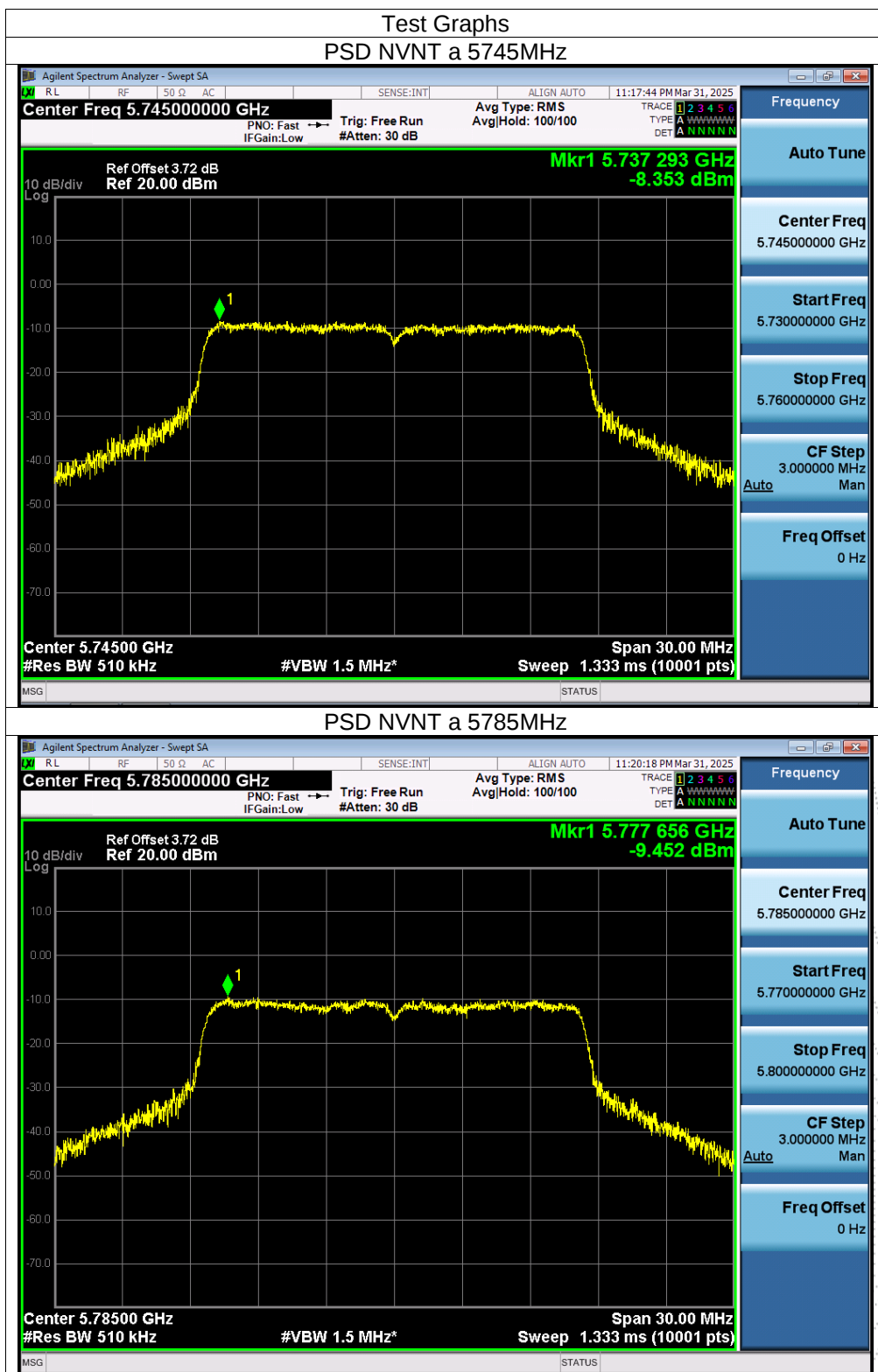


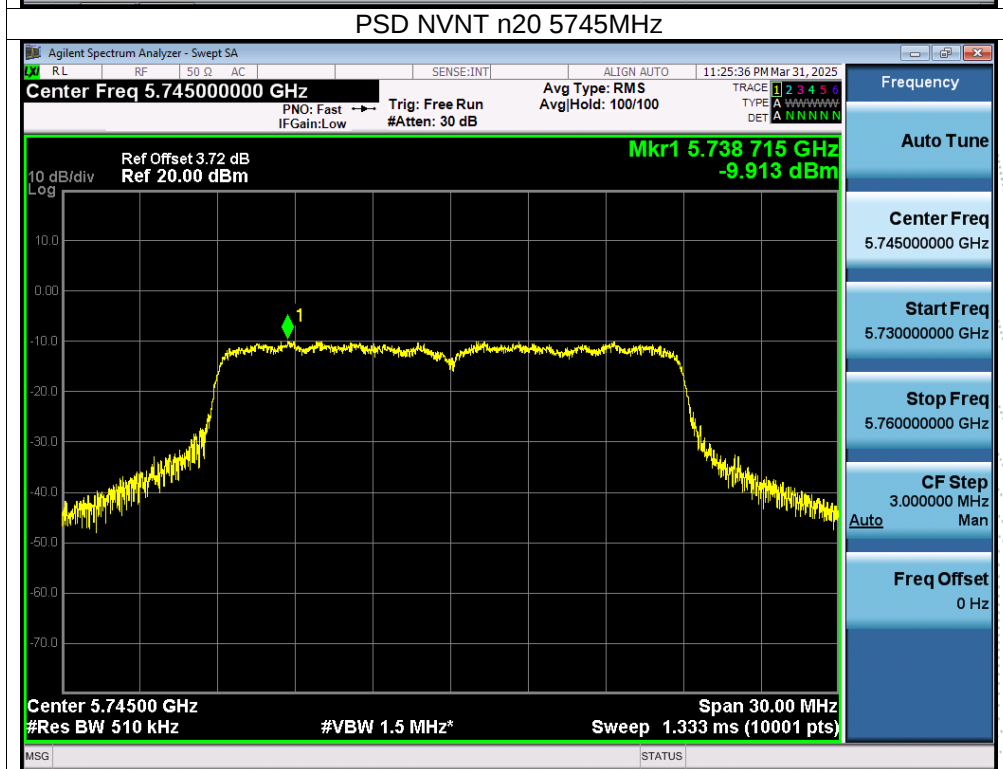
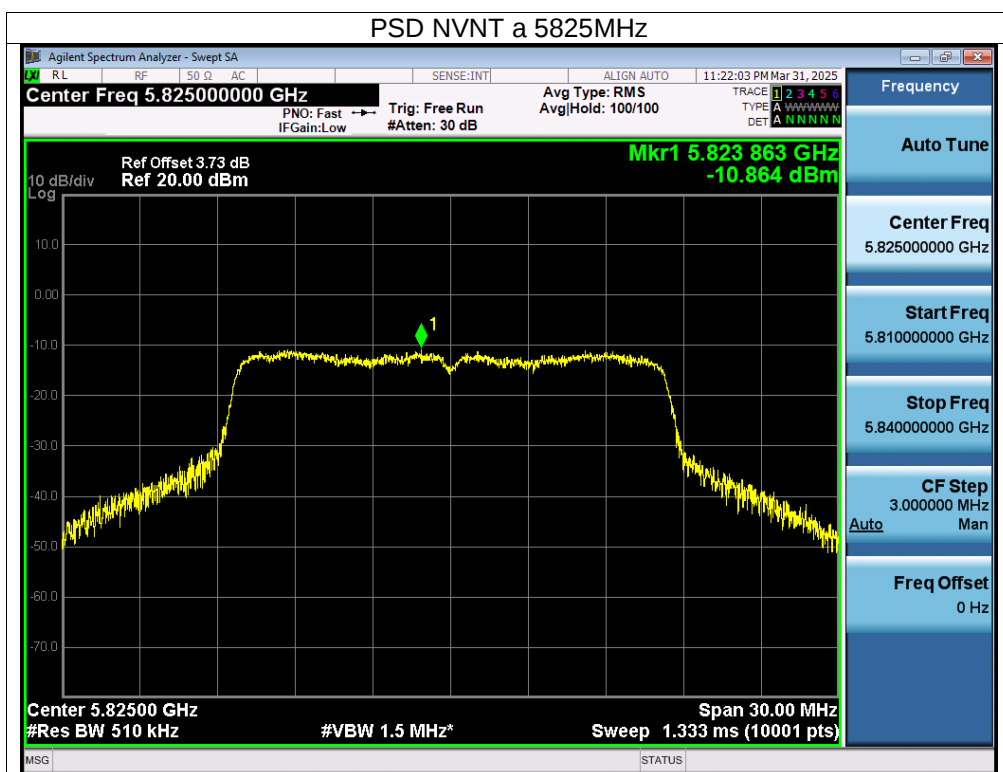


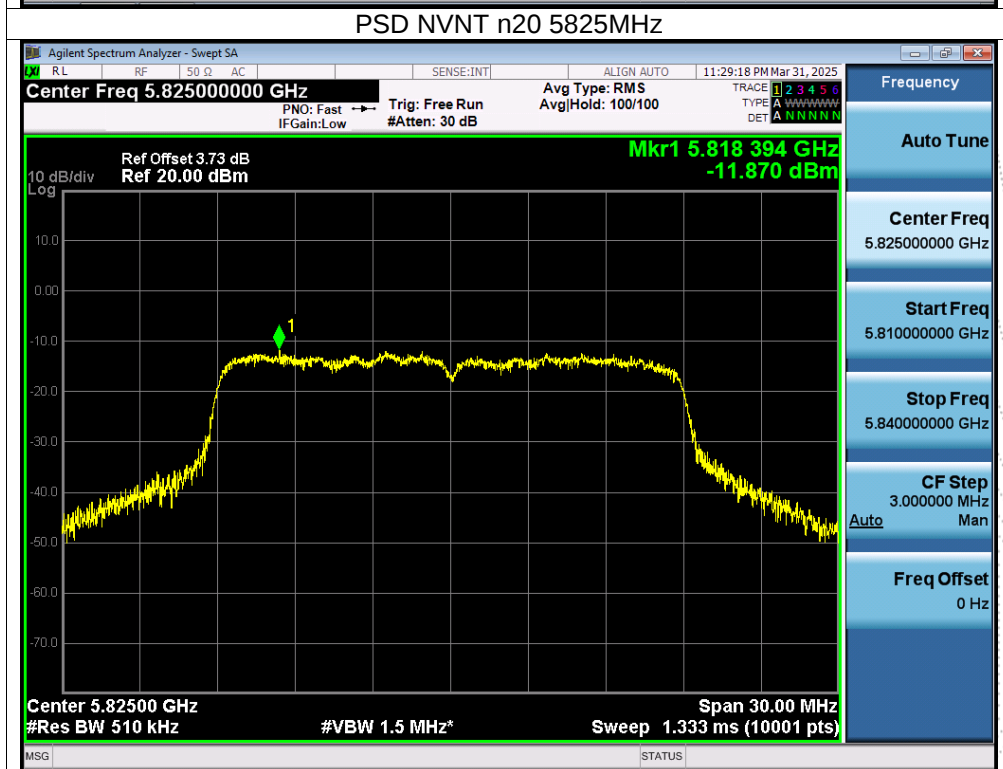
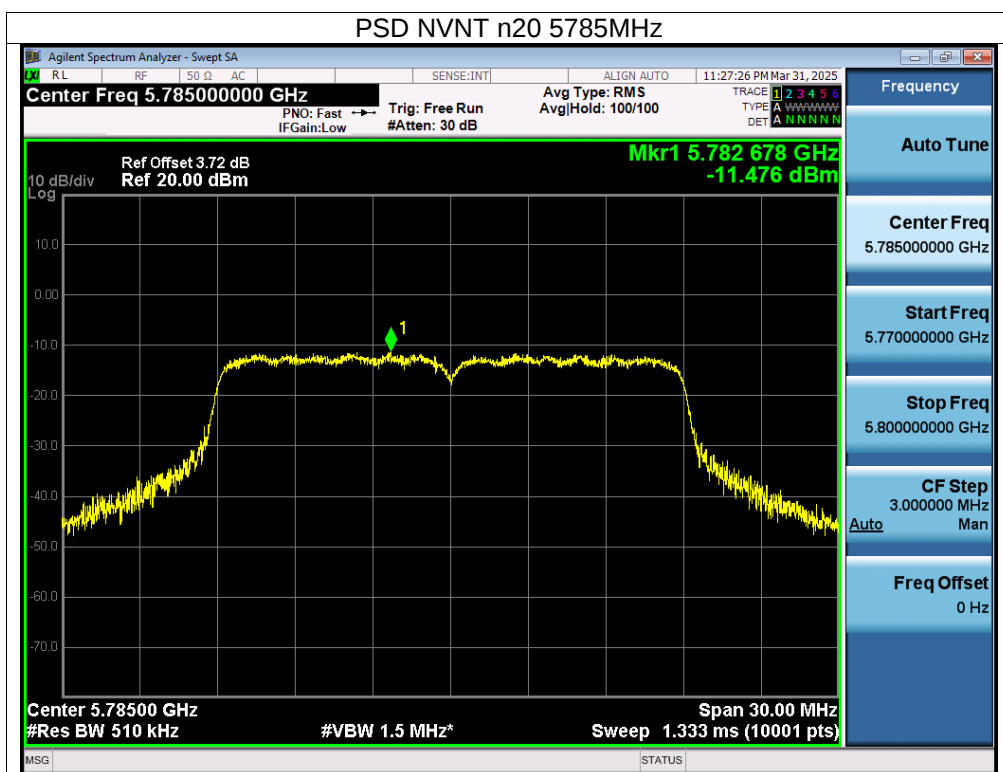


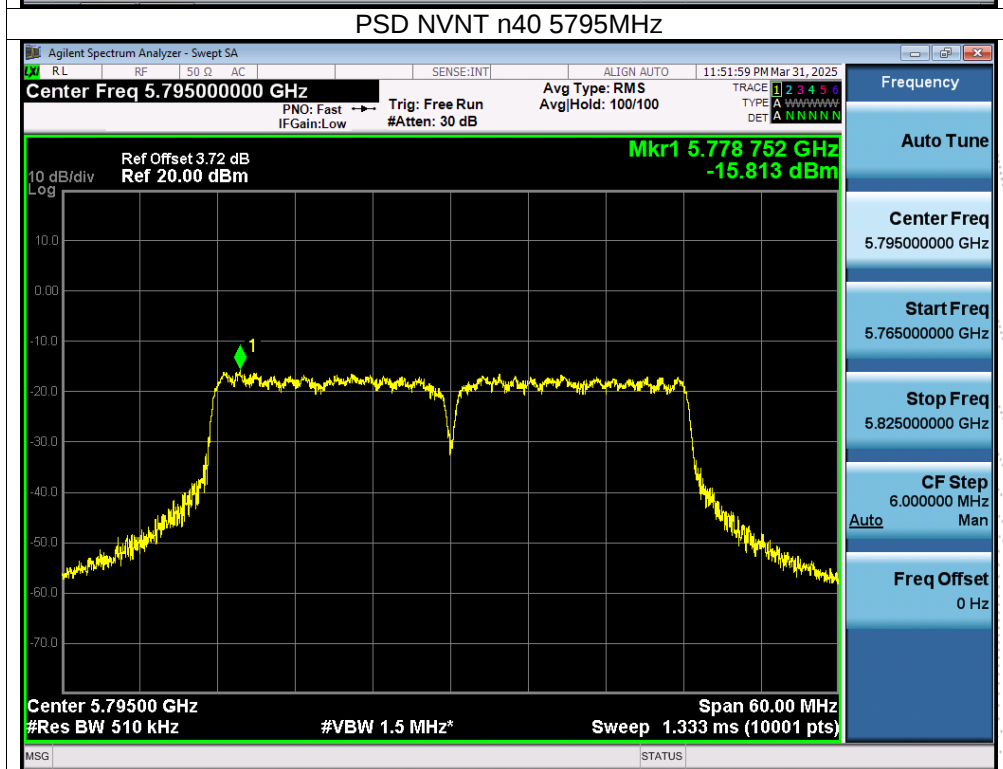
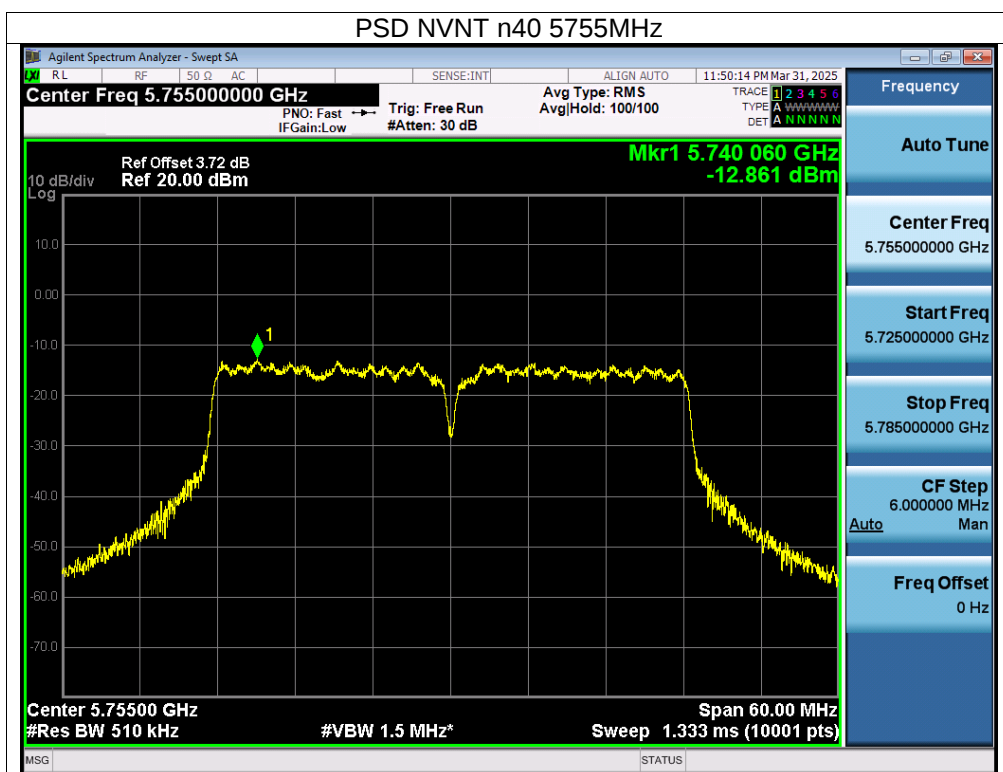


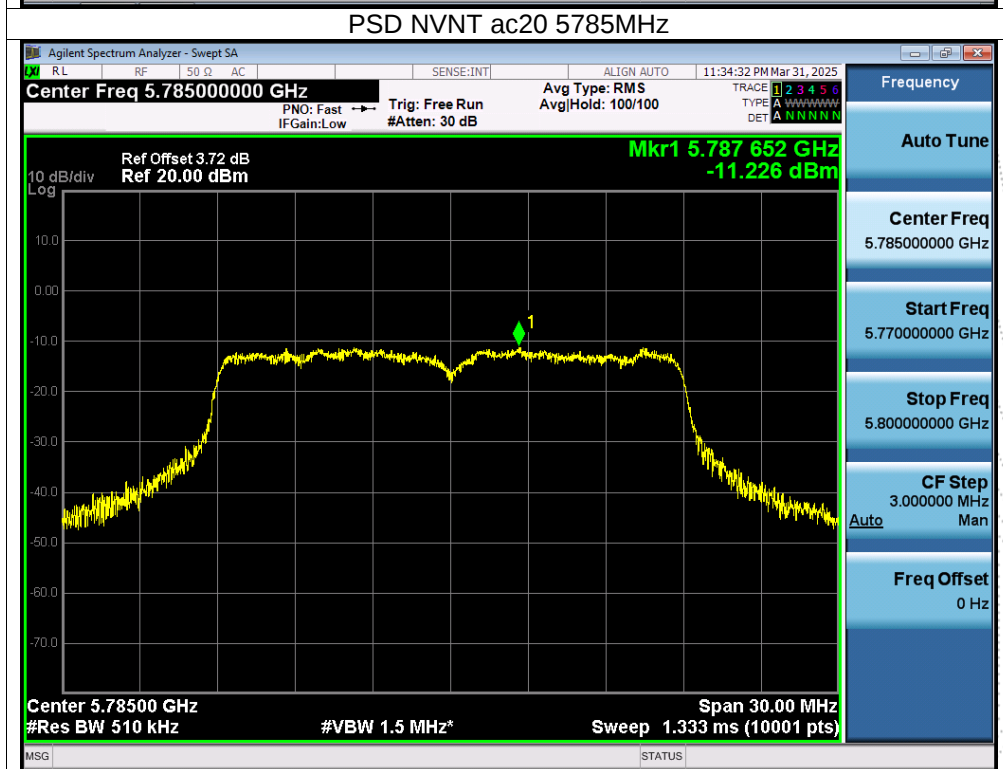
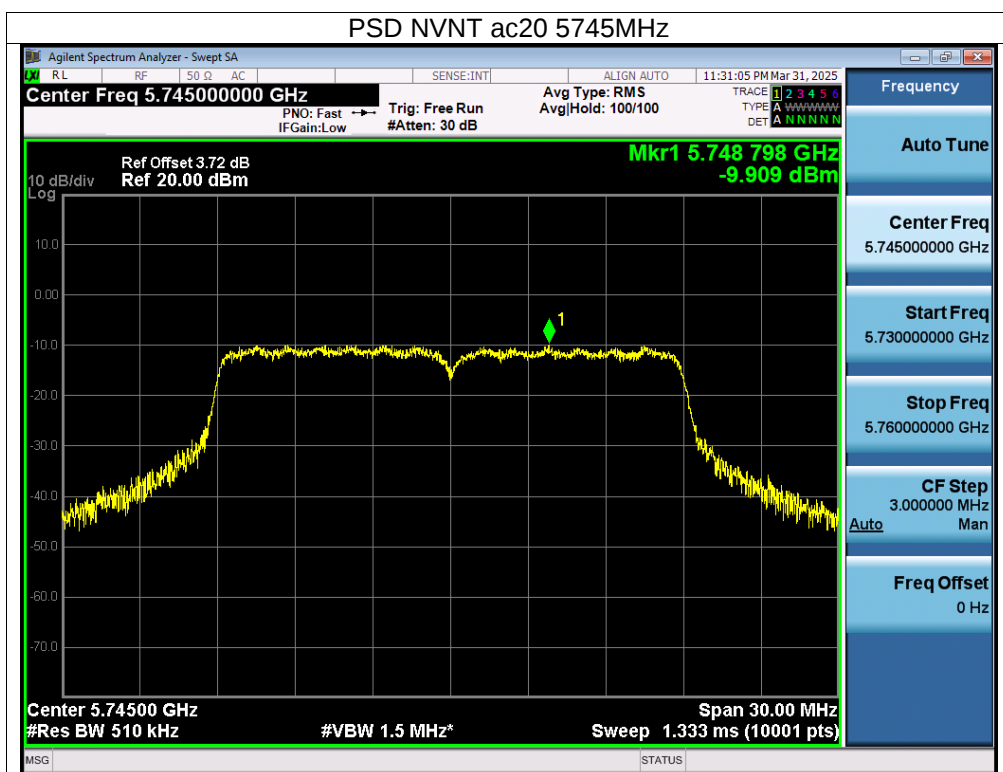


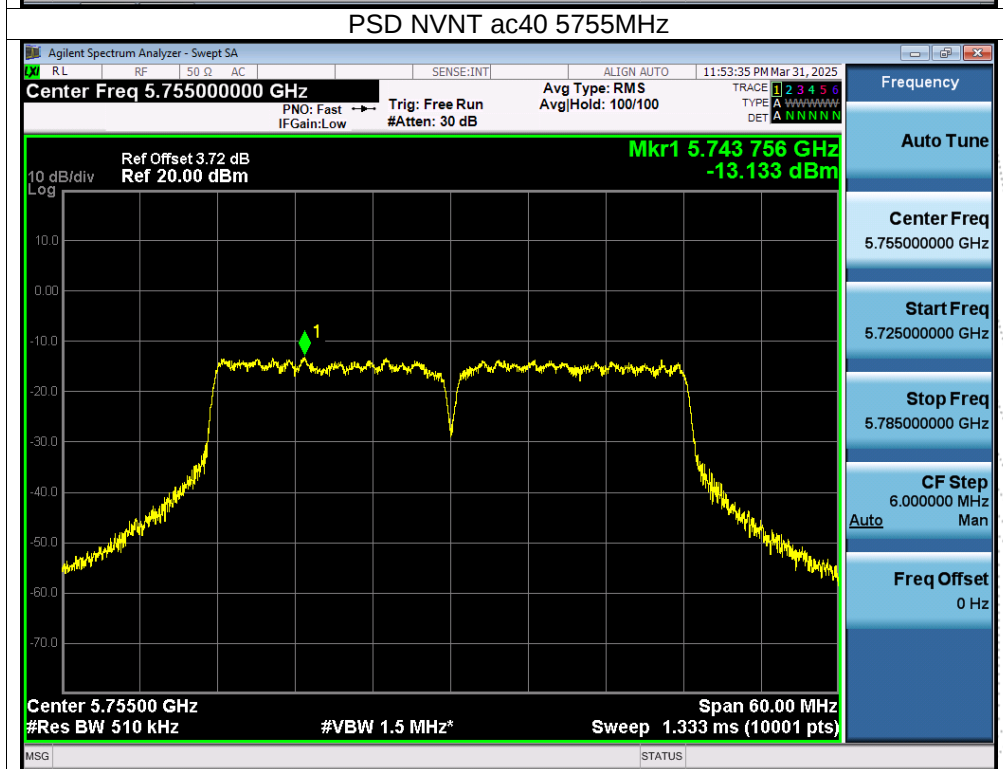
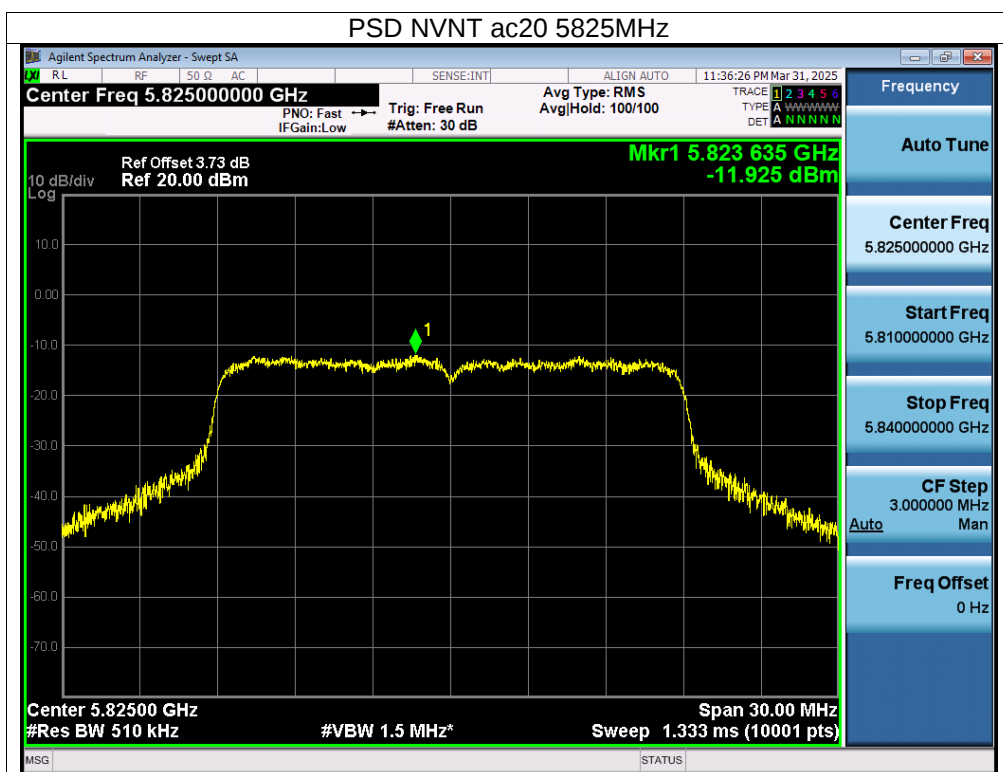


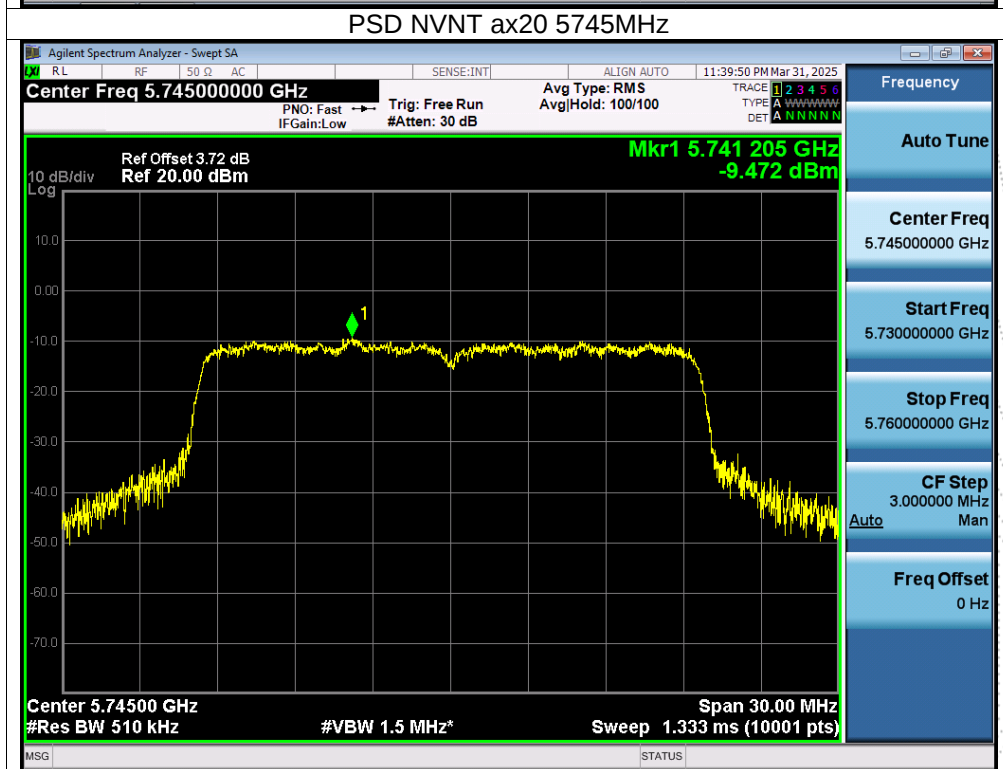
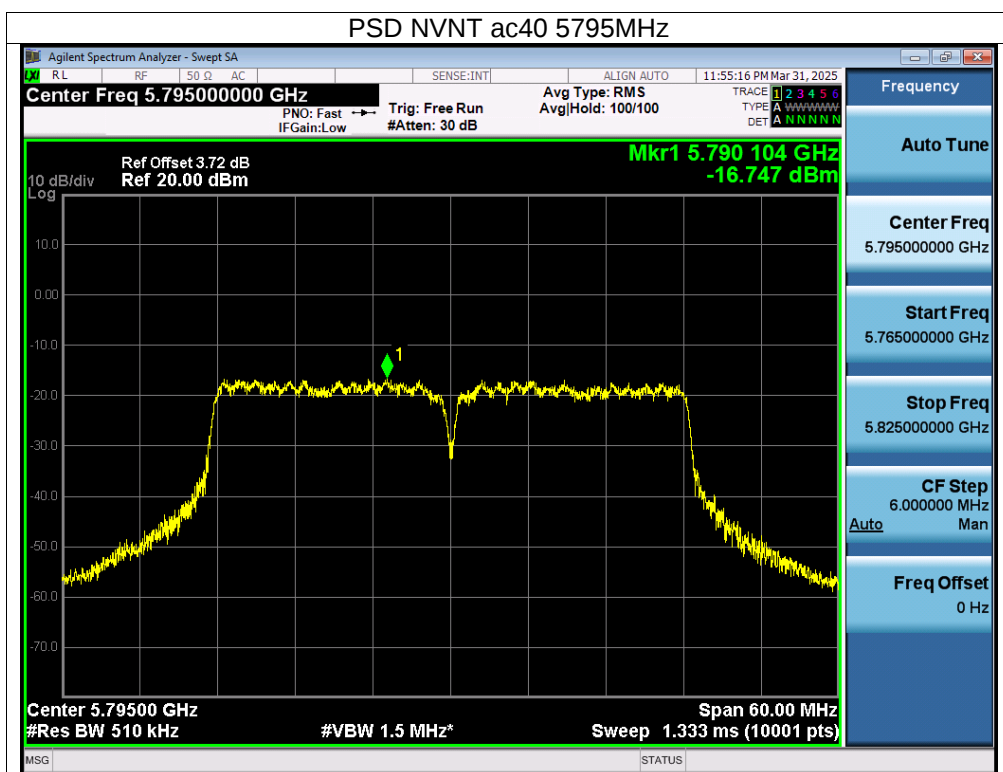


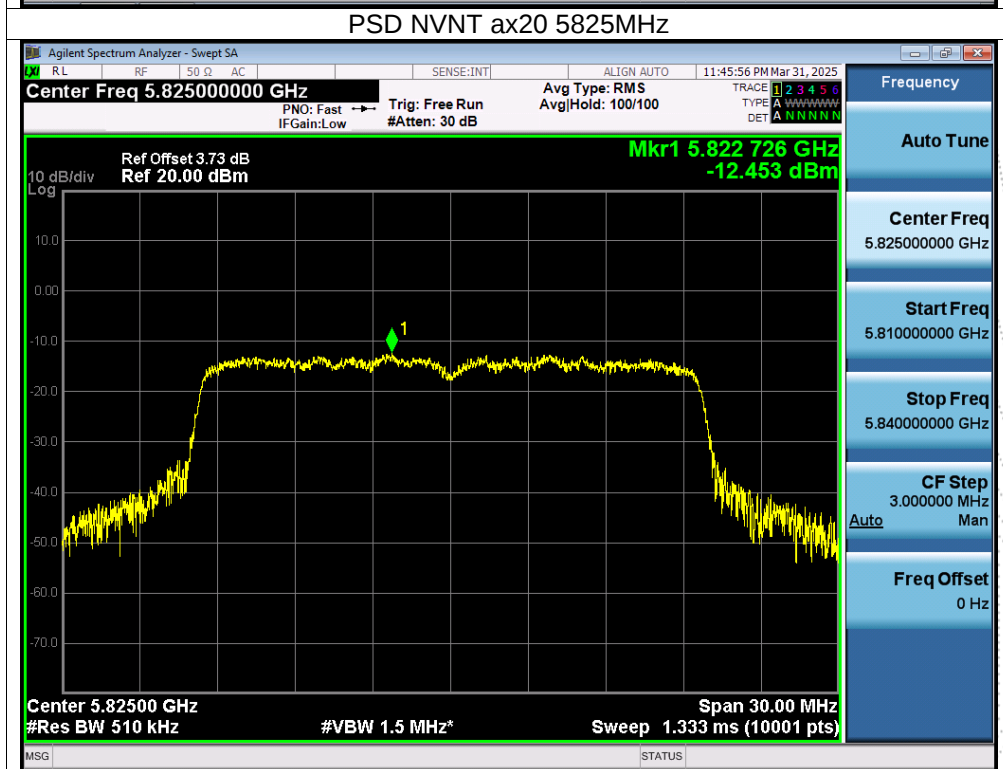
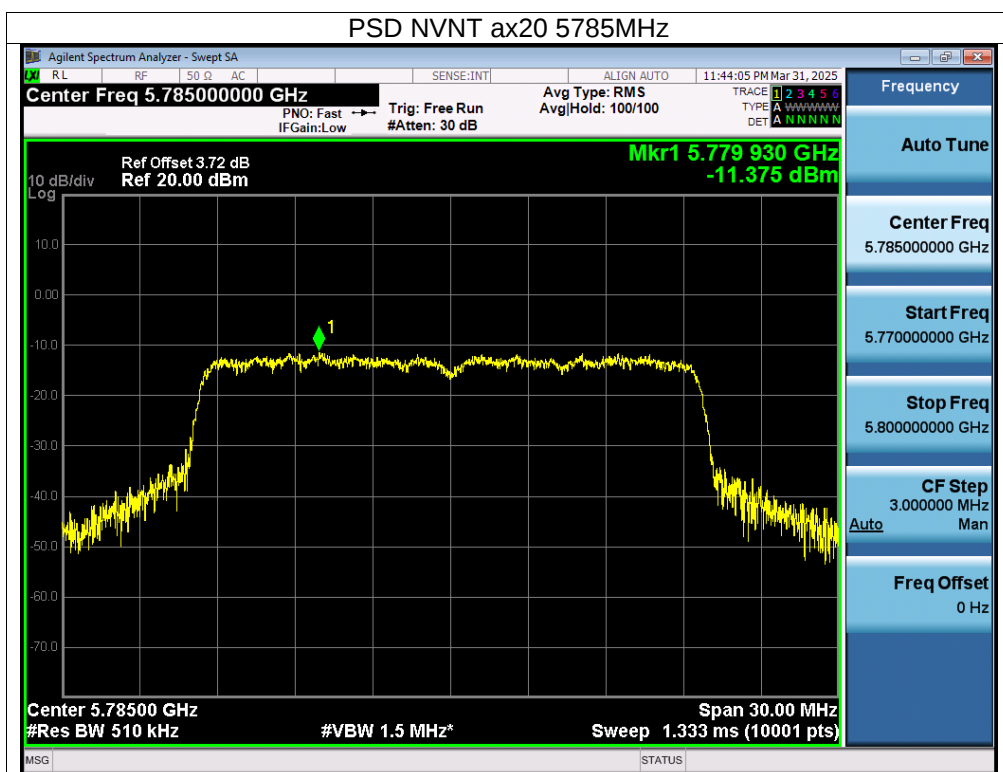


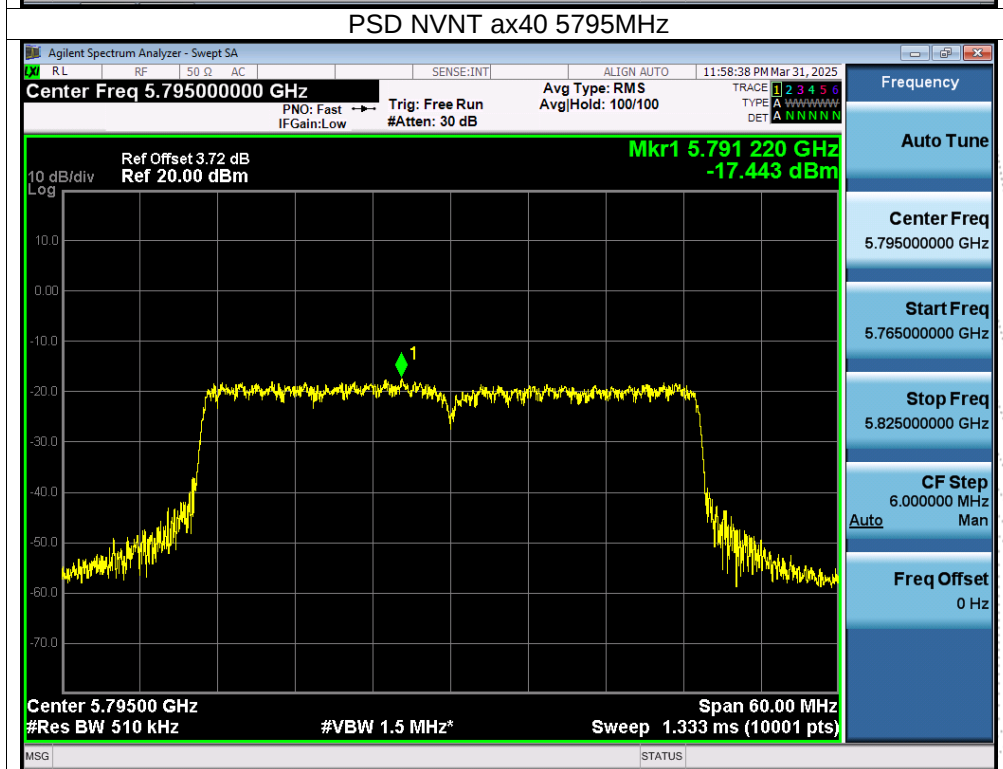
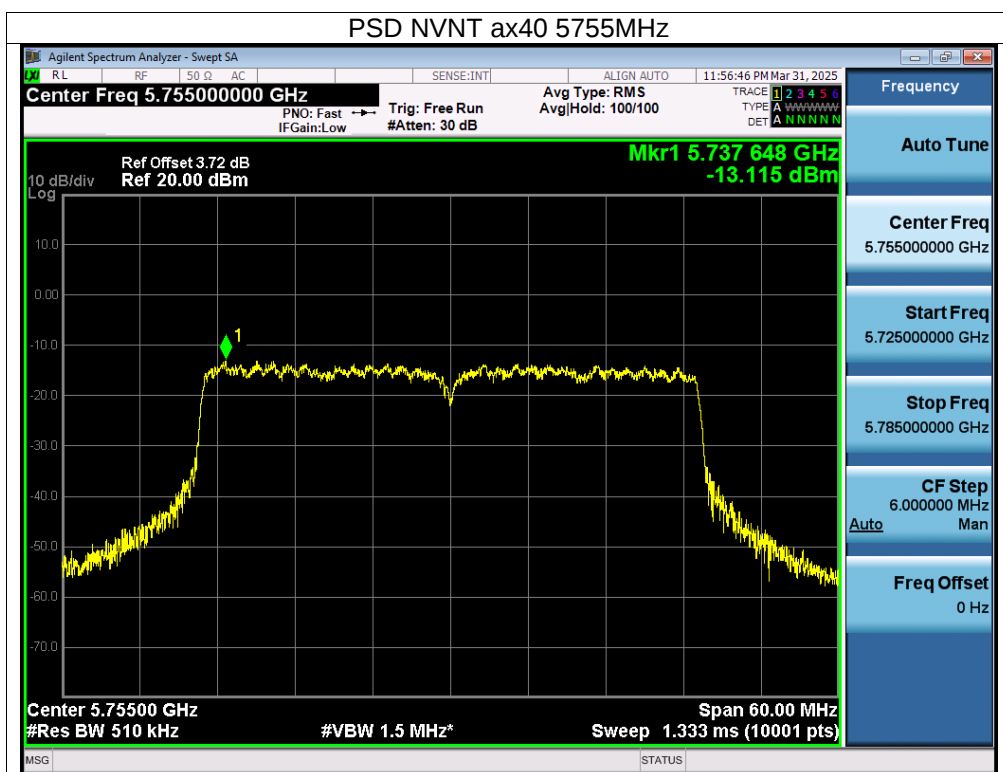






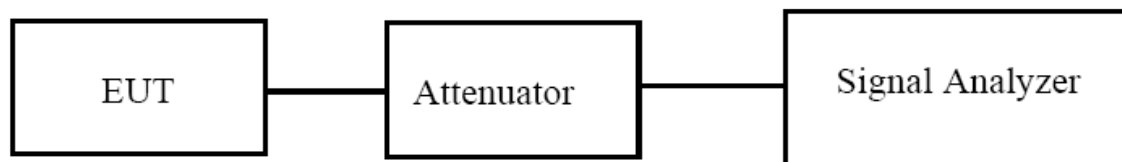






9. 26dB & 6dB & 99% Emission Bandwidth

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 3.7V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-26dB bandwidth (MHz)	Result
NVNT	a	5180	16.639	22.943	Pass
NVNT	a	5200	16.654	23.54	Pass
NVNT	a	5240	16.636	23.605	Pass
NVNT	n20	5180	17.828	23.119	Pass
NVNT	n20	5200	17.818	25.18	Pass
NVNT	n20	5240	17.805	24.111	Pass
NVNT	n40	5190	36.391	46.255	Pass
NVNT	n40	5230	36.368	44.415	Pass
NVNT	ac20	5180	17.842	24.689	Pass
NVNT	ac20	5200	17.832	24.043	Pass
NVNT	ac20	5240	17.818	24.288	Pass
NVNT	ac40	5190	36.416	45.735	Pass
NVNT	ac40	5230	36.427	45.062	Pass
NVNT	ax20	5180	19.089	24.388	Pass
NVNT	ax20	5200	19.057	24.508	Pass
NVNT	ax20	5240	19.045	25.677	Pass
NVNT	ax40	5190	37.86	43.629	Pass
NVNT	ax40	5230	37.885	44.959	Pass

