

TEST REPORT

Report No.: BCTC2504188863-3E

Applicant: Interfocus.Inc

Product Name: Baby Monitor/Camera

Test Model: VM03

Tested Date: 2025-04-27 to 2025-05-14

Issued Date: 2025-05-15

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



FCC ID: 2BPOD-VM03

Product Name: Baby Monitor/Camera
Trademark: MamaPro
Model/Type reference: VM03
Prepared For: Interfocus.Inc
Address: 108 West 13th Street 19801 Wilmington Delaware United States
Manufacturer: Interfocus.Inc
Address: 108 West 13th Street 19801 Wilmington Delaware United States
Prepared By: Shenzhen BCTC Testing Co., Ltd.
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Sample Received Date: 2025-04-27
Sample tested Date: 2025-04-27 to 2025-05-14
Issue Date: 2025-05-15
Report No.: BCTC2504188863-3E
FCC Part15 15.407
Test Standards: ANSI C63.10-2013
KDB 789033 D02 v02r01
Test Results: PASS

Tested by:



Lei Chen/Project Handler

Approved by:



Zero Zhou/Reviewer

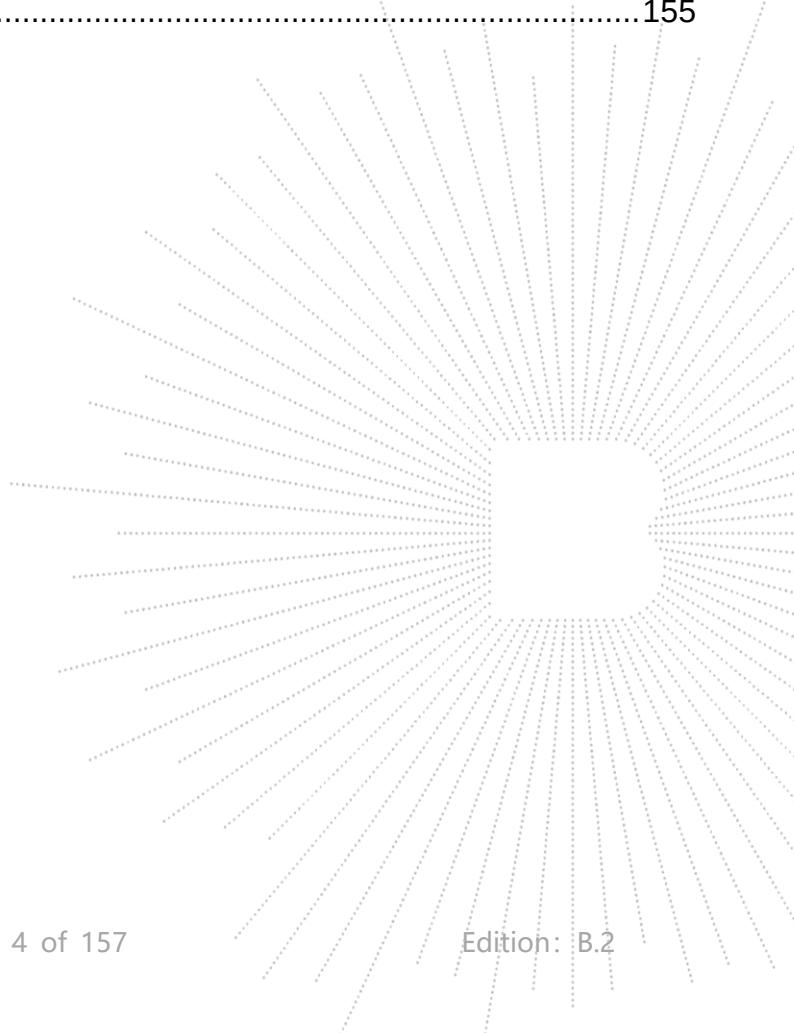
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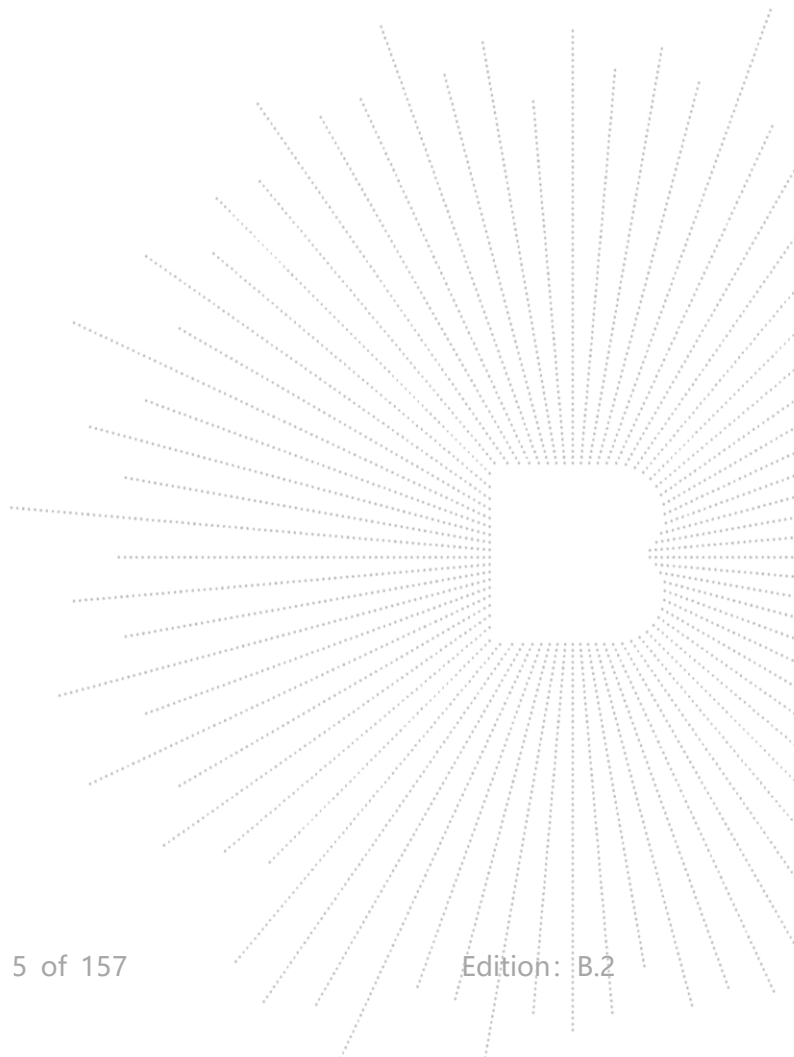
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2504188863-3E	2025-05-15	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:	VM03
Model differences:	N/A
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(HT20); 5190-5230MHz for 802.11n/ac(HT40)/ax(HT40); 5745-5825 MHz for 802.11a/n/ac(HT20)/ax(HT20); 5755-5795 MHz for 802.11n/ac(HT40)/ax(HT40);
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 WIFI 5.1G: 3.55 dBi WIFI 5.8G: 3.81 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 adapter
Adapter Information:	Model No.: BS05A-0501000US Input: AC 100-240V 50/60Hz 0.25A Max Output: DC 5V 1A

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	Baby Monitor/Camera	MamaPro	VM03	N/A	EUT
E-2	Adapter	N/A	BS05A-0501000 US	N/A	Auxiliary

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

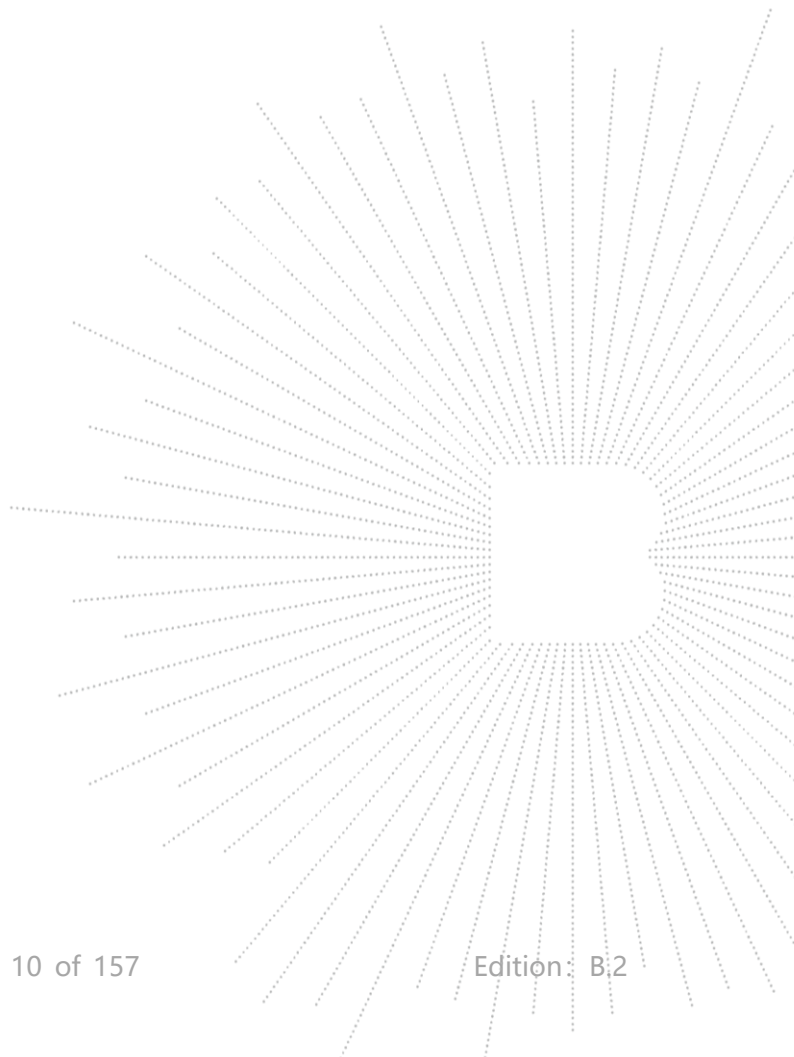
Note:

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	SecureCRT		
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

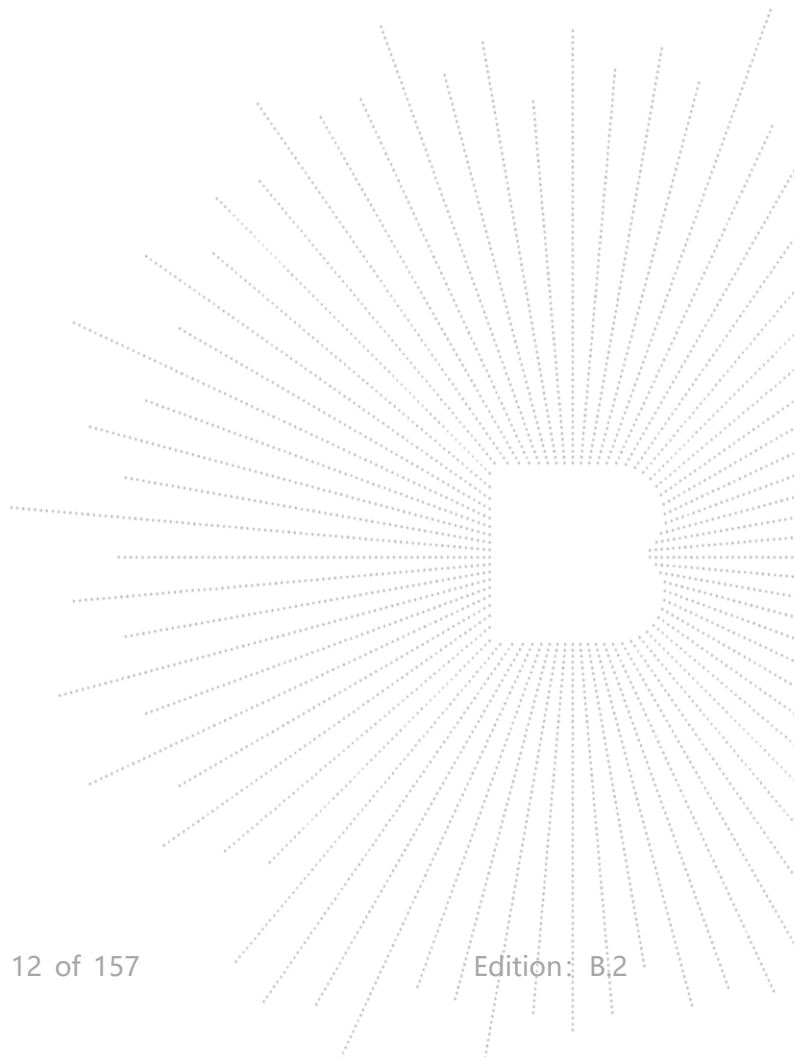
ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR	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

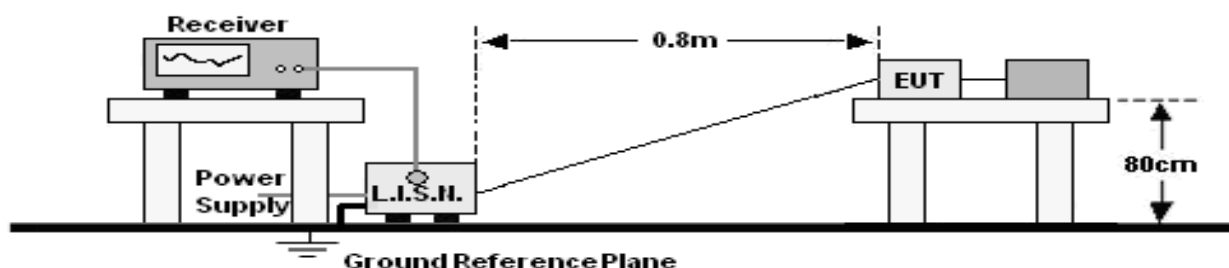
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power metter	Keysight	E4419	\	May 16, 2024	May 15, 2025
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025
Spectrum Analyzer9kHz-40GHz	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 16, 2024	May 15, 2025
Receiver	R&S	ESR	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

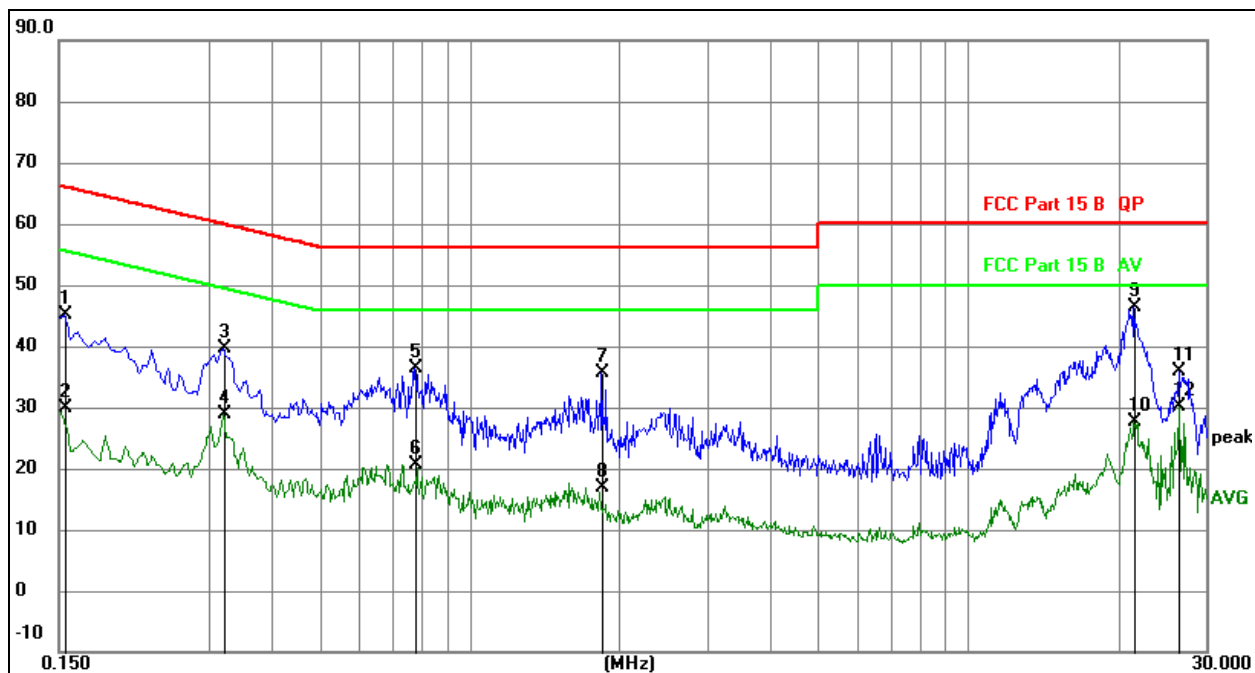
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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:	24.2 °C	Relative Humidity:	51%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 3	Test Voltage :	AC120V/60Hz

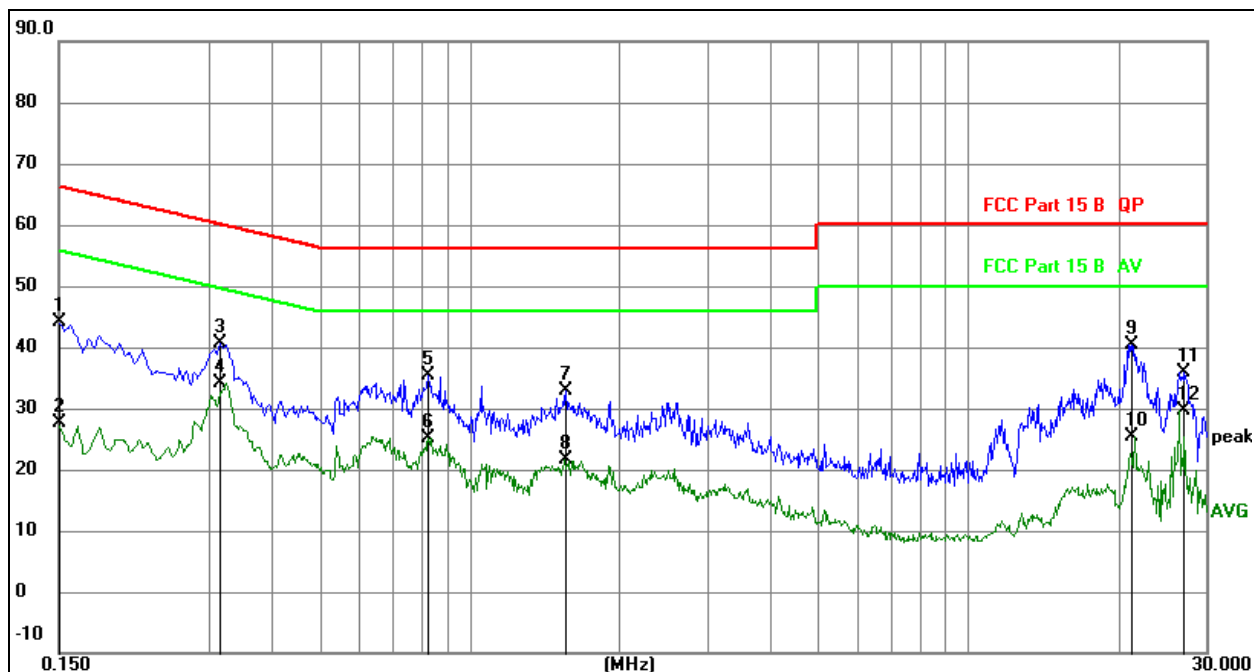


Remark:

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		0.1545	25.18	20.07	45.25	65.75	-20.50	QP
2		0.1545	9.82	20.07	29.89	55.75	-25.86	AVG
3		0.3209	19.48	20.07	39.55	59.68	-20.13	QP
4		0.3209	8.90	20.07	28.97	49.68	-20.71	AVG
5		0.7755	16.41	20.09	36.50	56.00	-19.50	QP
6		0.7755	0.43	20.09	20.52	46.00	-25.48	AVG
7		1.8465	15.61	20.10	35.71	56.00	-20.29	QP
8		1.8465	-3.16	20.10	16.94	46.00	-29.06	AVG
9	*	21.5115	25.99	20.32	46.31	60.00	-13.69	QP
10		21.5115	7.39	20.32	27.71	50.00	-22.29	AVG
11		26.4885	15.66	20.29	35.95	60.00	-24.05	QP
12		26.4885	9.96	20.29	30.25	50.00	-19.75	AVG

Temperature:	24.2 °C	Relative Humidity:	51%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 3	Test Voltage :	AC120V/60Hz



Remark:

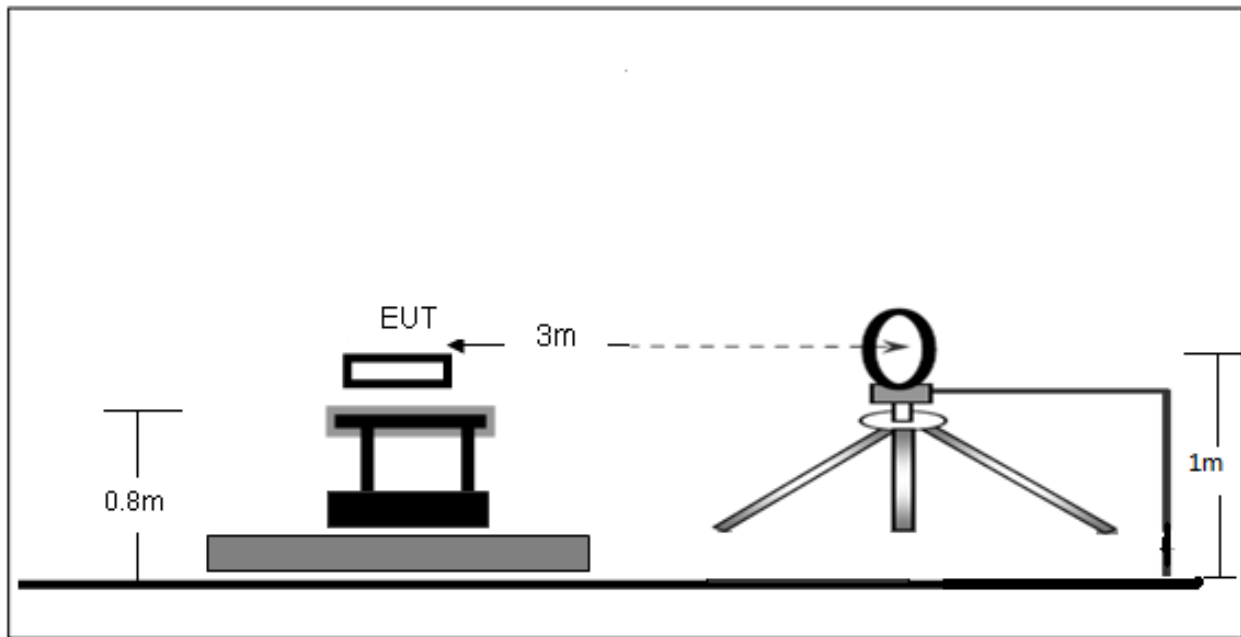
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over1 Measurement-Limit

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1500	24.13	20.07	44.20	66.00	-21.80	QP
2		0.1500	7.47	20.07	27.54	56.00	-28.46	AVG
3		0.3149	20.67	20.07	40.74	59.84	-19.10	QP
4	*	0.3149	14.11	20.07	34.18	49.84	-15.66	AVG
5		0.8260	15.34	20.09	35.43	56.00	-20.57	QP
6		0.8260	5.05	20.09	25.14	46.00	-20.86	AVG
7		1.5599	12.86	20.10	32.96	56.00	-23.04	QP
8		1.5599	1.47	20.10	21.57	46.00	-24.43	AVG
9		21.2595	20.02	20.32	40.34	60.00	-19.66	QP
10		21.2595	5.15	20.32	25.47	50.00	-24.53	AVG
11		27.1269	15.68	20.29	35.97	60.00	-24.03	QP
12		27.1269	9.24	20.29	29.53	50.00	-20.47	AVG

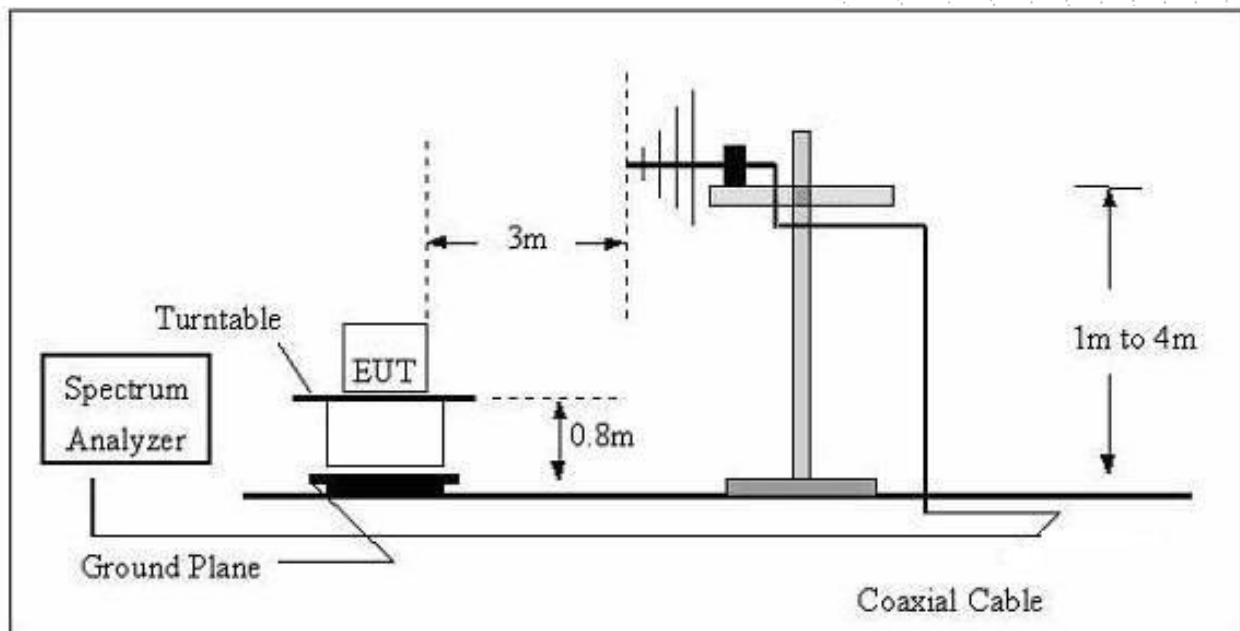
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

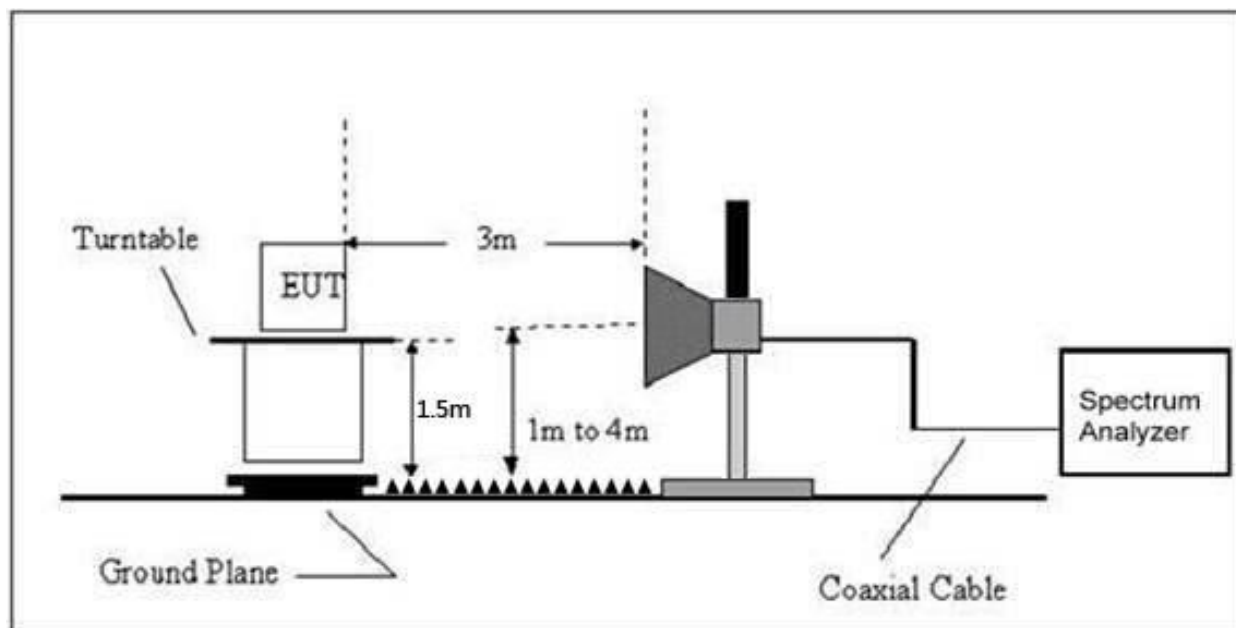
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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:	24 °C	Relative Humidity:	51%
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:

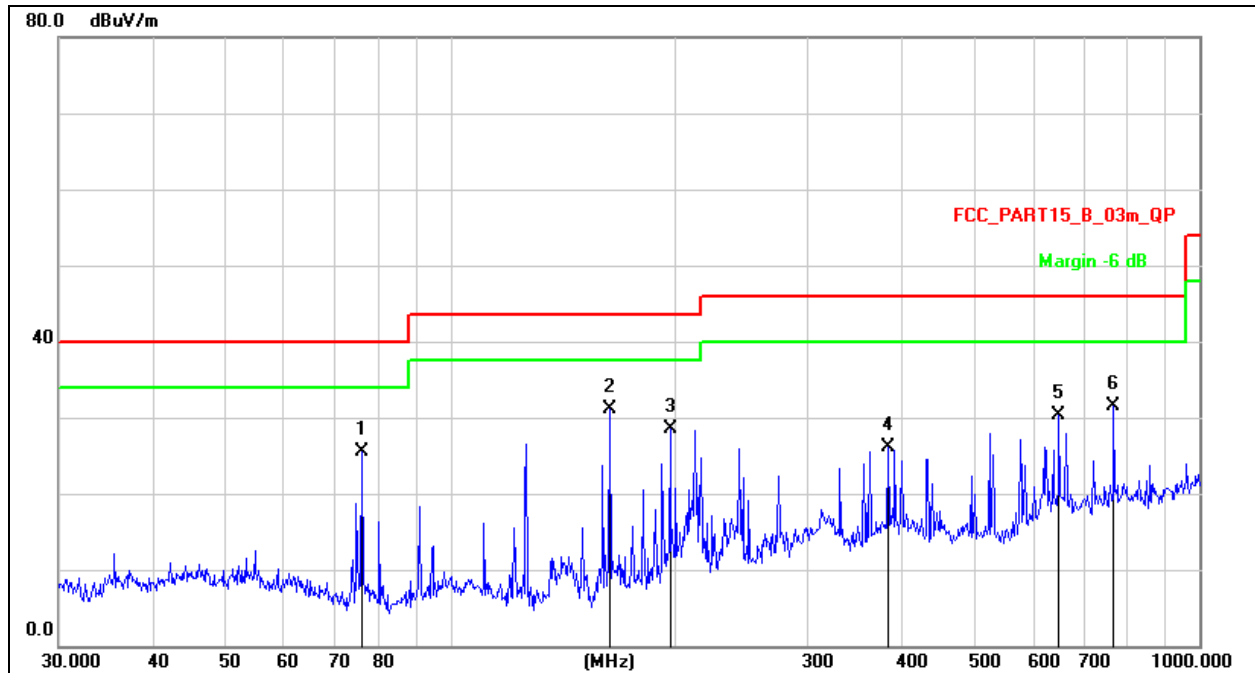
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

Temperature:	24 °C	Relative Humidity:	51%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 3	Test Voltage :	AC120V/60Hz

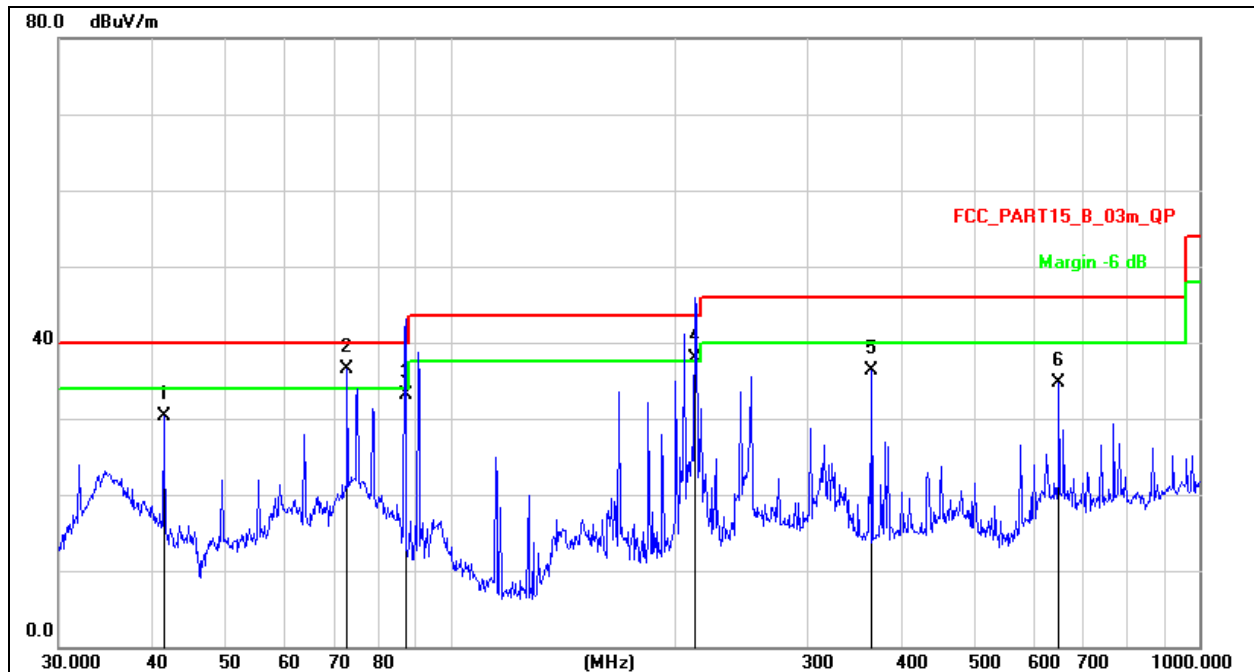


Remark:

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		76.2442	44.63	-19.09	25.54	40.00	-14.46	QP
2	*	163.1818	49.48	-18.45	31.03	43.50	-12.47	QP
3		196.5098	44.49	-15.98	28.51	43.50	-14.99	QP
4		383.9318	37.24	-11.05	26.19	46.00	-19.81	QP
5		649.6597	36.41	-6.17	30.24	46.00	-15.76	QP
6		768.7481	36.35	-4.77	31.58	46.00	-14.42	QP

Temperature:	24 °C	Relative Humidity:	51%
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.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		41.4215	44.99	-14.60	30.39	40.00	-9.61	QP
2	*	72.8465	55.00	-18.50	36.50	40.00	-3.50	QP
3		87.1116	51.11	-18.08	33.03	40.00	-6.97	QP
4	!	212.2694	53.18	-15.37	37.81	43.50	-5.69	QP
5		365.5391	47.60	-11.28	36.32	46.00	-9.68	QP
6		649.6597	40.82	-6.17	34.65	46.00	-11.35	QP

Between 1GHz – 40GHz

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

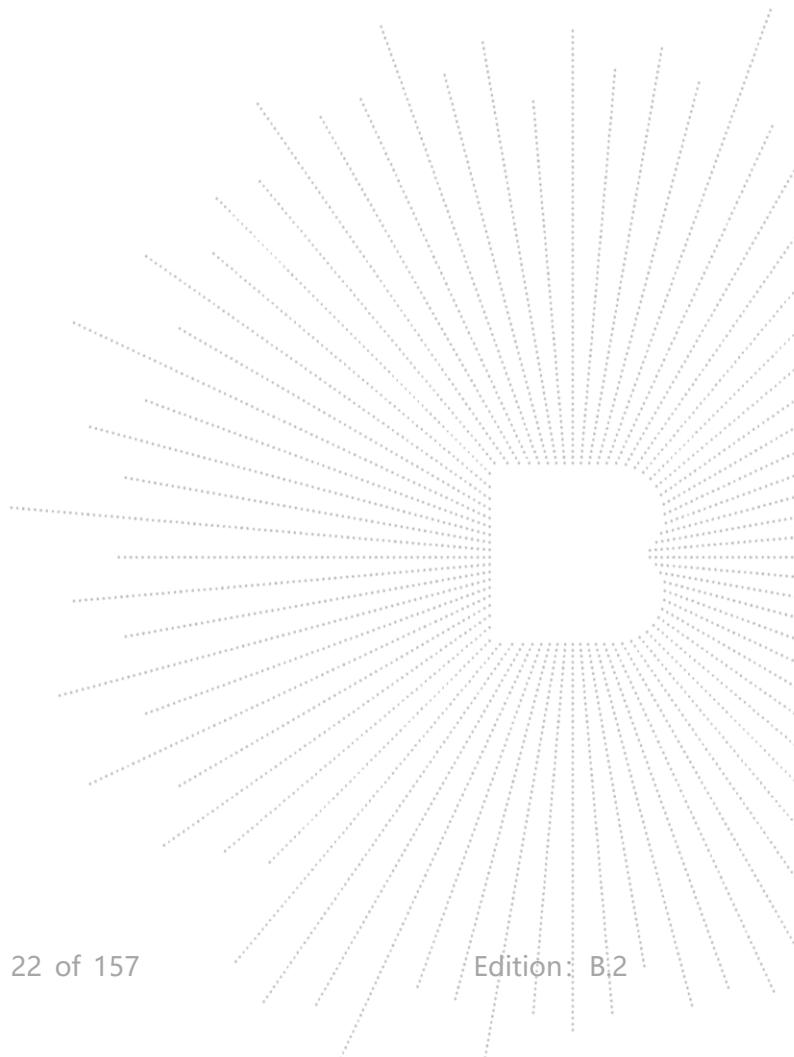
Test mode: 802.11a Frequency(MHz): 5180

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5150.33	H	57.42	74	43.89	54
5149.73	V	55.37	74	41.62	54

Test mode: 802.11a Frequency(MHz): 5240

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5303.12	H	43.85	74	33.05	54
5303.45	V	42.29	74	31.68	54

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



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	4434.179	71.71	-20.73	50.98	68.2	-17.22	PK
Vertical	4434.179	59.61	-20.73	38.88	54	-15.12	AV
Vertical	10360.196	61.59	-9.36	52.23	68.2	-15.97	PK
Vertical	10360.196	49.59	-9.36	40.23	54	-13.77	AV
Vertical	15540.060	63.86	-7.84	56.02	74	-17.98	PK
Vertical	15540.060	49.39	-7.84	41.55	54	-12.45	AV
Horizontal	4434.174	74.04	-20.73	53.31	68.2	-14.89	PK
Horizontal	4434.174	59.70	-20.73	38.97	54	-15.03	AV
Horizontal	10360.153	60.79	-9.36	51.43	68.2	-16.77	PK
Horizontal	10360.153	49.24	-9.36	39.88	54	-14.12	AV
Horizontal	15540.087	60.14	-7.84	52.30	74	-21.70	PK
Horizontal	15540.087	49.66	-7.84	41.82	54	-12.18	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.093	71.10	-20.42	50.69	74	-23.31	PK
Vertical	4592.093	59.51	-20.42	39.10	54	-14.90	AV
Vertical	10400.008	64.67	-9.30	55.37	68.2	-12.83	PK
Vertical	10400.008	49.48	-9.30	40.18	54	-13.82	AV
Vertical	15600.109	61.79	-7.82	53.97	74	-20.03	PK
Vertical	15600.109	49.28	-7.82	41.46	54	-12.54	AV
Horizontal	4592.199	73.59	-20.42	53.17	74	-20.83	PK
Horizontal	4592.199	59.71	-20.42	39.30	54	-14.70	AV
Horizontal	10400.149	64.46	-9.30	55.16	68.2	-13.04	PK
Horizontal	10400.149	49.28	-9.30	39.98	54	-14.02	AV
Horizontal	15600.106	60.28	-7.82	52.46	74	-21.54	PK
Horizontal	15600.106	49.56	-7.82	41.74	54	-12.26	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.052	71.27	-20.12	51.15	74	-22.85	PK
Vertical	4739.052	59.72	-20.12	39.59	54	-14.41	AV
Vertical	10480.104	63.47	-9.18	54.29	68.2	-13.91	PK
Vertical	10480.104	49.27	-9.18	40.09	54	-13.91	AV
Vertical	15720.142	61.99	-7.78	54.21	74	-19.79	PK
Vertical	15720.142	49.95	-7.78	42.17	54	-11.83	AV
Horizontal	4739.118	74.92	-20.12	54.80	74	-19.20	PK
Horizontal	4739.118	59.47	-20.12	39.34	54	-14.66	AV
Horizontal	10480.185	63.13	-9.18	53.95	68.2	-14.25	PK
Horizontal	10480.185	49.60	-9.18	40.42	54	-13.58	AV
Horizontal	15720.026	63.76	-7.78	55.98	74	-18.02	PK
Horizontal	15720.026	50.00	-7.78	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(5.1G) - 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	4434.150	72.33	-20.73	51.60	68.2	-16.60	PK
Vertical	4434.150	59.75	-20.73	39.02	54	-14.98	AV
Vertical	10360.123	63.98	-9.36	54.62	68.2	-13.58	PK
Vertical	10360.123	49.29	-9.36	39.93	54	-14.07	AV
Vertical	15540.034	60.71	-7.84	52.87	74	-21.13	PK
Vertical	15540.034	49.07	-7.84	41.23	54	-12.77	AV
Horizontal	4434.179	74.11	-20.73	53.38	68.2	-14.82	PK
Horizontal	4434.179	59.26	-20.73	38.53	54	-15.47	AV
Horizontal	10360.085	62.42	-9.36	53.06	68.2	-15.14	PK
Horizontal	10360.085	49.61	-9.36	40.25	54	-13.75	AV
Horizontal	15540.025	61.38	-7.84	53.54	74	-20.46	PK
Horizontal	15540.025	49.72	-7.84	41.88	54	-12.12	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.132	71.31	-20.42	50.89	74	-23.11	PK
Vertical	4592.132	59.39	-20.42	38.98	54	-15.02	AV
Vertical	10400.115	64.73	-9.30	55.43	68.2	-12.77	PK
Vertical	10400.115	49.31	-9.30	40.01	54	-13.99	AV
Vertical	15600.017	60.86	-7.82	53.04	74	-20.96	PK
Vertical	15600.017	49.46	-7.82	41.64	54	-12.36	AV
Horizontal	4592.168	74.02	-20.42	53.60	74	-20.40	PK
Horizontal	4592.168	59.49	-20.42	39.07	54	-14.93	AV
Horizontal	10400.079	62.63	-9.30	53.33	68.2	-14.87	PK
Horizontal	10400.079	49.74	-9.30	40.44	54	-13.56	AV
Horizontal	15600.064	62.80	-7.82	54.98	74	-19.02	PK
Horizontal	15600.064	49.01	-7.82	41.19	54	-12.81	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.001	70.29	-20.12	50.16	74	-23.84	PK
Vertical	4739.001	59.12	-20.12	38.99	54	-15.01	AV
Vertical	10480.089	61.02	-9.18	51.84	68.2	-16.36	PK
Vertical	10480.089	49.18	-9.18	40.00	54	-14.00	AV
Vertical	15720.106	62.56	-7.78	54.78	74	-19.22	PK
Vertical	15720.106	49.35	-7.78	41.57	54	-12.43	AV
Horizontal	4739.135	72.34	-20.12	52.22	74	-21.78	PK
Horizontal	4739.135	59.41	-20.12	39.28	54	-14.72	AV
Horizontal	10480.056	62.47	-9.18	53.29	68.2	-14.91	PK
Horizontal	10480.056	49.50	-9.18	40.32	54	-13.68	AV
Horizontal	15720.119	61.59	-7.78	53.81	74	-20.19	PK
Horizontal	15720.119	49.78	-7.78	42.00	54	-12.00	AV

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

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

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

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

Test Mode:	TX(5.1G) - 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	4434.158	74.03	-20.73	53.29	68.2	-14.91	PK
Vertical	4434.158	59.62	-20.73	38.88	54	-15.12	AV
Vertical	10380.137	61.08	-9.33	51.75	68.2	-16.45	PK
Vertical	10380.137	49.15	-9.33	39.82	54	-14.18	AV
Vertical	15570.065	62.73	-7.83	54.90	74	-19.10	PK
Vertical	15570.065	49.23	-7.83	41.40	54	-12.60	AV
Horizontal	4434.018	73.22	-20.73	52.49	74	-21.51	PK
Horizontal	4434.018	59.01	-20.73	38.28	54	-15.72	AV
Horizontal	10380.061	64.53	-9.33	55.20	68.2	-13.00	PK
Horizontal	10380.061	49.56	-9.33	40.23	54	-13.77	AV
Horizontal	15570.138	60.98	-7.83	53.15	74	-20.85	PK
Horizontal	15570.138	49.81	-7.83	41.98	54	-12.02	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.072	70.25	-20.12	50.13	68.2	-18.07	PK
Vertical	4739.072	59.71	-20.12	39.58	54	-14.42	AV
Vertical	10460.144	60.78	-9.21	51.57	68.2	-16.63	PK
Vertical	10460.144	49.99	-9.21	40.78	54	-13.22	AV
Vertical	15690.023	64.38	-7.79	56.59	74	-17.41	PK
Vertical	15690.023	49.91	-7.79	42.12	54	-11.88	AV
Horizontal	4739.053	73.66	-20.12	53.54	68.2	-14.66	PK
Horizontal	4739.053	59.99	-20.12	39.87	54	-14.13	AV
Horizontal	10460.010	64.18	-9.21	54.97	68.2	-13.23	PK
Horizontal	10460.010	49.09	-9.21	39.88	54	-14.12	AV
Horizontal	15690.024	60.05	-7.79	52.26	74	-21.74	PK
Horizontal	15690.024	49.08	-7.79	41.29	54	-12.71	AV

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

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

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

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

Test Mode:	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	4434.024	70.53	-20.73	49.80	68.2	-18.40	PK
Vertical	4434.024	59.31	-20.73	38.58	54	-15.42	AV
Vertical	10360.104	60.16	-9.36	50.80	68.2	-17.40	PK
Vertical	10360.104	49.55	-9.36	40.19	54	-13.81	AV
Vertical	15540.152	64.25	-7.84	56.41	74	-17.59	PK
Vertical	15540.152	49.80	-7.84	41.96	54	-12.04	AV
Horizontal	4434.058	72.91	-20.73	52.18	68.2	-16.02	PK
Horizontal	4434.058	59.68	-20.73	38.95	54	-15.05	AV
Horizontal	10360.137	61.26	-9.36	51.90	68.2	-16.30	PK
Horizontal	10360.137	49.48	-9.36	40.12	54	-13.88	AV
Horizontal	15540.151	62.35	-7.84	54.51	74	-19.49	PK
Horizontal	15540.151	49.36	-7.84	41.52	54	-12.48	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.104	72.55	-20.42	52.13	74	-21.87	PK
Vertical	4592.104	59.10	-20.42	38.69	54	-15.31	AV
Vertical	10400.167	64.00	-9.30	54.70	68.2	-13.50	PK
Vertical	10400.167	49.18	-9.30	39.88	54	-14.12	AV
Vertical	15600.007	60.02	-7.82	52.20	74	-21.80	PK
Vertical	15600.007	49.99	-7.82	42.17	54	-11.83	AV
Horizontal	4592.147	70.43	-20.42	50.01	74	-23.99	PK
Horizontal	4592.147	59.59	-20.42	39.18	54	-14.82	AV
Horizontal	10400.038	62.97	-9.30	53.67	68.2	-14.53	PK
Horizontal	10400.038	49.17	-9.30	39.87	54	-14.13	AV
Horizontal	15600.191	60.84	-7.82	53.02	74	-20.98	PK
Horizontal	15600.191	49.54	-7.82	41.72	54	-12.28	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.153	70.66	-20.12	50.54	74	-23.46	PK
Vertical	4739.153	59.80	-20.12	39.67	54	-14.33	AV
Vertical	10480.088	62.43	-9.18	53.25	68.2	-14.95	PK
Vertical	10480.088	49.77	-9.18	40.59	54	-13.41	AV
Vertical	15720.030	60.28	-7.78	52.50	74	-21.50	PK
Vertical	15720.030	49.06	-7.78	41.28	54	-12.72	AV
Horizontal	4739.078	73.83	-20.12	53.70	74	-20.30	PK
Horizontal	4739.078	59.22	-20.12	39.10	54	-14.90	AV
Horizontal	10480.045	61.12	-9.18	51.94	68.2	-16.26	PK
Horizontal	10480.045	49.49	-9.18	40.31	54	-13.69	AV
Horizontal	15720.137	62.81	-7.78	55.03	74	-18.97	PK
Horizontal	15720.137	49.97	-7.78	42.19	54	-11.81	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	4434.170	71.29	-20.73	50.56	68.2	-17.64	PK
Vertical	4434.170	59.01	-20.73	38.28	54	-15.72	AV
Vertical	10380.087	60.40	-9.33	51.07	68.2	-17.13	PK
Vertical	10380.087	49.30	-9.33	39.97	54	-14.03	AV
Vertical	15570.106	64.21	-7.83	56.38	74	-17.62	PK
Vertical	15570.106	49.99	-7.83	42.16	54	-11.84	AV
Horizontal	4434.156	74.61	-20.73	53.88	74	-20.12	PK
Horizontal	4434.156	59.14	-20.73	38.41	54	-15.59	AV
Horizontal	10380.155	64.99	-9.33	55.66	68.2	-12.54	PK
Horizontal	10380.155	49.32	-9.33	39.99	54	-14.01	AV
Horizontal	15570.178	62.93	-7.83	55.10	74	-18.90	PK
Horizontal	15570.178	49.88	-7.83	42.05	54	-11.95	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.106	71.90	-20.12	51.78	68.2	-16.42	PK
Vertical	4739.106	59.21	-20.12	39.09	54	-14.91	AV
Vertical	10460.121	64.36	-9.21	55.15	68.2	-13.05	PK
Vertical	10460.121	49.65	-9.21	40.44	54	-13.56	AV
Vertical	15690.005	62.63	-7.79	54.84	74	-19.16	PK
Vertical	15690.005	49.30	-7.79	41.51	54	-12.49	AV
Horizontal	4739.070	70.97	-20.12	50.85	68.2	-17.35	PK
Horizontal	4739.070	59.35	-20.12	39.23	54	-14.77	AV
Horizontal	10460.005	61.15	-9.21	51.94	68.2	-16.26	PK
Horizontal	10460.005	49.98	-9.21	40.77	54	-13.23	AV
Horizontal	15690.174	61.89	-7.79	54.10	74	-19.90	PK
Horizontal	15690.174	49.71	-7.79	41.92	54	-12.08	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	4434.010	72.14	-20.73	51.41	68.2	-16.79	PK
Vertical	4434.010	59.90	-20.73	39.17	54	-14.83	AV
Vertical	10360.093	60.54	-9.36	51.18	68.2	-17.02	PK
Vertical	10360.093	49.75	-9.36	40.39	54	-13.61	AV
Vertical	15540.051	61.10	-7.84	53.26	74	-20.74	PK
Vertical	15540.051	49.27	-7.84	41.43	54	-12.57	AV
Horizontal	4434.111	72.34	-20.73	51.61	68.2	-16.59	PK
Horizontal	4434.111	59.52	-20.73	38.79	54	-15.21	AV
Horizontal	10360.134	64.28	-9.36	54.92	68.2	-13.28	PK
Horizontal	10360.134	49.91	-9.36	40.55	54	-13.45	AV
Horizontal	15540.083	63.62	-7.84	55.78	74	-18.22	PK
Horizontal	15540.083	49.29	-7.84	41.45	54	-12.55	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.011	71.28	-20.42	50.87	74	-23.13	PK
Vertical	4592.011	59.45	-20.42	39.03	54	-14.97	AV
Vertical	10400.028	63.71	-9.30	54.41	68.2	-13.79	PK
Vertical	10400.028	49.82	-9.30	40.52	54	-13.48	AV
Vertical	15600.100	63.65	-7.82	55.83	74	-18.17	PK
Vertical	15600.100	49.42	-7.82	41.60	54	-12.40	AV
Horizontal	4592.054	72.11	-20.42	51.69	74	-22.31	PK
Horizontal	4592.054	59.13	-20.42	38.72	54	-15.28	AV
Horizontal	10400.132	60.94	-9.30	51.64	68.2	-16.56	PK
Horizontal	10400.132	49.63	-9.30	40.33	54	-13.67	AV
Horizontal	15600.034	61.40	-7.82	53.58	74	-20.42	PK
Horizontal	15600.034	49.32	-7.82	41.50	54	-12.50	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.050	73.82	-20.12	53.70	74	-20.30	PK
Vertical	4739.050	59.37	-20.12	39.25	54	-14.75	AV
Vertical	10480.124	63.24	-9.18	54.06	68.2	-14.14	PK
Vertical	10480.124	49.46	-9.18	40.28	54	-13.72	AV
Vertical	15720.166	64.01	-7.78	56.23	74	-17.77	PK
Vertical	15720.166	49.87	-7.78	42.09	54	-11.91	AV
Horizontal	4739.132	72.51	-20.12	52.38	74	-21.62	PK
Horizontal	4739.132	59.91	-20.12	39.78	54	-14.22	AV
Horizontal	10480.024	64.10	-9.18	54.92	68.2	-13.28	PK
Horizontal	10480.024	49.40	-9.18	40.22	54	-13.78	AV
Horizontal	15720.088	64.48	-7.78	56.70	74	-17.30	PK
Horizontal	15720.088	49.35	-7.78	41.57	54	-12.43	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	4434.081	72.63	-20.73	51.90	68.2	-16.30	PK
Vertical	4434.081	59.96	-20.73	39.23	54	-14.77	AV
Vertical	10380.122	64.36	-9.33	55.03	68.2	-13.17	PK
Vertical	10380.122	49.47	-9.33	40.14	54	-13.86	AV
Vertical	15570.122	64.62	-7.83	56.79	74	-17.21	PK
Vertical	15570.122	49.56	-7.83	41.73	54	-12.27	AV
Horizontal	4434.143	73.52	-20.73	52.79	74	-21.21	PK
Horizontal	4434.143	59.09	-20.73	38.36	54	-15.64	AV
Horizontal	10380.052	61.89	-9.33	52.56	68.2	-15.64	PK
Horizontal	10380.052	49.88	-9.33	40.55	54	-13.45	AV
Horizontal	15570.150	62.13	-7.83	54.30	74	-19.70	PK
Horizontal	15570.150	49.40	-7.83	41.57	54	-12.43	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.104	73.18	-20.12	53.06	68.2	-15.14	PK
Vertical	4739.104	59.76	-20.12	39.64	54	-14.36	AV
Vertical	10460.160	62.49	-9.21	53.28	68.2	-14.92	PK
Vertical	10460.160	49.17	-9.21	39.96	54	-14.04	AV
Vertical	15690.166	64.29	-7.79	56.50	74	-17.50	PK
Vertical	15690.166	49.33	-7.79	41.54	54	-12.46	AV
Horizontal	4739.166	74.93	-20.12	54.81	68.2	-13.39	PK
Horizontal	4739.166	59.81	-20.12	39.69	54	-14.31	AV
Horizontal	10460.125	64.83	-9.21	55.62	68.2	-12.58	PK
Horizontal	10460.125	49.56	-9.21	40.35	54	-13.65	AV
Horizontal	15690.006	62.92	-7.79	55.13	74	-18.87	PK
Horizontal	15690.006	49.30	-7.79	41.51	54	-12.49	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	4679.138	70.28	-20.24	50.04	74	-23.96	PK
Vertical	4679.138	59.57	-20.24	39.33	54	-14.67	AV
Vertical	11490.007	63.57	-8.79	54.78	68.2	-13.42	PK
Vertical	11490.007	49.97	-8.79	41.18	54	-12.82	AV
Vertical	17235.023	55.22	-3.18	52.04	68.2	-16.16	PK
Vertical	17235.023	44.85	-3.18	41.67	54	-12.33	AV
Horizontal	4679.023	73.36	-20.73	52.63	74	-21.37	PK
Horizontal	4679.023	59.74	-20.73	39.01	54	-14.99	AV
Horizontal	11490.027	62.97	-8.79	54.18	68.2	-14.02	PK
Horizontal	11490.027	49.98	-8.79	41.19	54	-12.81	AV
Horizontal	17235.084	55.27	-3.18	52.09	68.2	-16.11	PK
Horizontal	17235.084	44.85	-3.18	41.67	54	-12.33	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.157	72.00	-20.42	51.58	74	-22.42	PK
Vertical	4592.157	59.05	-20.42	38.63	54	-15.37	AV
Vertical	11570.064	60.47	-8.86	51.61	68.2	-16.59	PK
Vertical	11570.064	49.16	-8.86	40.30	54	-13.70	AV
Vertical	17355.188	59.01	-2.52	56.49	68.2	-11.71	PK
Vertical	17355.188	44.83	-2.52	42.31	54	-11.69	AV
Horizontal	4592.156	74.50	-20.42	54.09	74	-19.91	PK
Horizontal	4592.156	59.20	-20.42	38.78	54	-15.22	AV
Horizontal	11570.034	60.84	-8.86	51.98	68.2	-16.22	PK
Horizontal	11570.034	49.03	-8.86	40.17	54	-13.83	AV
Horizontal	17355.177	57.62	-2.52	55.10	68.2	-13.10	PK
Horizontal	17355.177	44.60	-2.52	42.08	54	-11.92	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.082	73.09	-18.93	54.15	68.2	-14.05	PK
Vertical	6039.082	59.47	-18.93	40.54	54	-13.46	AV
Vertical	11650.017	60.65	-8.92	51.73	74	-22.27	PK
Vertical	11650.017	49.46	-8.92	40.54	54	-13.46	AV
Vertical	17475.118	56.04	-1.86	54.18	68.2	-14.02	PK
Vertical	17475.118	44.88	-1.86	43.02	54	-10.98	AV
Horizontal	6039.174	72.88	-18.93	53.95	68.2	-14.25	PK
Horizontal	6039.174	59.49	-18.93	40.56	54	-13.44	AV
Horizontal	11650.067	62.14	-8.92	53.22	74	-20.78	PK
Horizontal	11650.067	49.86	-8.92	40.94	54	-13.06	AV
Horizontal	17475.155	58.82	-1.86	56.96	68.2	-11.24	PK
Horizontal	17475.155	44.03	-1.86	42.17	54	-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	4679.195	72.43	-20.24	52.19	74	-21.81	PK
Vertical	4679.195	59.22	-20.24	38.98	54	-15.02	AV
Vertical	11490.107	62.55	-8.79	53.76	68.2	-14.44	PK
Vertical	11490.107	49.27	-8.79	40.48	54	-13.52	AV
Vertical	17235.016	57.76	-3.18	54.58	68.2	-13.62	PK
Vertical	17235.016	44.97	-3.18	41.79	54	-12.21	AV
Horizontal	4679.171	71.81	-20.24	51.57	74	-22.43	PK
Horizontal	4679.171	59.16	-20.24	38.92	54	-15.08	AV
Horizontal	11490.087	63.67	-8.79	54.88	68.2	-13.32	PK
Horizontal	11490.087	49.84	-8.79	41.05	54	-12.95	AV
Horizontal	17235.185	58.78	-3.18	55.60	68.2	-12.60	PK
Horizontal	17235.185	44.66	-3.18	41.48	54	-12.52	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.014	72.96	-20.42	52.54	74	-21.46	PK
Vertical	4592.014	59.94	-20.42	39.53	54	-14.47	AV
Vertical	11570.103	64.81	-8.86	55.95	68.2	-12.25	PK
Vertical	11570.103	49.38	-8.86	40.52	54	-13.48	AV
Vertical	17355.146	55.41	-2.52	52.89	68.2	-15.31	PK
Vertical	17355.146	44.32	-2.52	41.80	54	-12.20	AV
Horizontal	4592.085	70.39	-20.42	49.98	74	-24.02	PK
Horizontal	4592.085	59.44	-20.42	39.02	54	-14.98	AV
Horizontal	11570.097	62.80	-8.86	53.94	68.2	-14.26	PK
Horizontal	11570.097	49.96	-8.86	41.10	54	-12.90	AV
Horizontal	17355.149	59.43	-2.52	56.91	68.2	-11.29	PK
Horizontal	17355.149	44.08	-2.52	41.56	54	-12.44	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.059	72.89	-18.93	53.96	68.2	-14.24	PK
Vertical	6039.059	59.60	-18.93	40.67	54	-13.33	AV
Vertical	11650.025	62.32	-8.92	53.40	74	-20.60	PK
Vertical	11650.025	49.29	-8.92	40.37	54	-13.63	AV
Vertical	17475.152	57.37	-1.86	55.51	68.2	-12.69	PK
Vertical	17475.152	44.80	-1.86	42.94	54	-11.06	AV
Horizontal	6039.174	73.19	-18.93	54.25	68.2	-13.95	PK
Horizontal	6039.174	59.20	-18.93	40.27	54	-13.73	AV
Horizontal	11650.103	63.33	-8.92	54.41	74	-19.59	PK
Horizontal	11650.103	49.34	-8.92	40.42	54	-13.58	AV
Horizontal	17475.193	57.82	-1.86	55.96	68.2	-12.24	PK
Horizontal	17475.193	44.65	-1.86	42.79	54	-11.21	AV

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

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

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

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

Test Mode:	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	4679.159	70.09	-20.24	49.85	74	-24.15	PK
Vertical	4679.159	59.15	-20.24	38.91	54	-15.09	AV
Vertical	11510.130	64.01	-8.81	55.20	74	-18.80	PK
Vertical	11510.130	49.48	-8.81	40.67	54	-13.33	AV
Vertical	17265.142	55.88	-3.01	52.87	68.2	-15.33	PK
Vertical	17265.142	44.17	-3.01	41.16	54	-12.84	AV
Horizontal	4679.101	71.39	-20.24	51.15	74	-22.85	PK
Horizontal	4679.101	59.32	-20.24	39.08	54	-14.92	AV
Horizontal	11510.040	64.29	-8.81	55.48	74	-18.52	PK
Horizontal	11510.040	49.53	-8.81	40.72	54	-13.28	AV
Horizontal	17265.038	56.37	-3.01	53.36	68.2	-14.84	PK
Horizontal	17265.038	44.18	-3.01	41.17	54	-12.83	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.099	71.91	-18.93	52.98	68.2	-15.22	PK
Vertical	6039.099	59.61	-18.93	40.67	54	-13.33	AV
Vertical	11590.175	63.78	-8.87	54.91	74	-19.09	PK
Vertical	11590.175	49.21	-8.87	40.34	54	-13.66	AV
Vertical	17385.045	58.37	-2.35	56.02	68.2	-12.18	PK
Vertical	17385.045	44.28	-2.35	41.93	54	-12.07	AV
Horizontal	6039.163	72.18	-18.93	53.25	68.2	-14.95	PK
Horizontal	6039.163	59.63	-18.93	40.70	54	-13.30	AV
Horizontal	11590.071	62.59	-8.87	53.72	74	-20.28	PK
Horizontal	11590.071	49.30	-8.87	40.43	54	-13.57	AV
Horizontal	17385.156	58.57	-2.35	56.22	68.2	-11.98	PK
Horizontal	17385.156	44.47	-2.35	42.12	54	-11.88	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	4679.054	72.26	-20.24	52.02	74	-21.98	PK
Vertical	4679.054	59.46	-20.24	39.22	54	-14.78	AV
Vertical	11490.045	63.57	-8.79	54.78	68.2	-13.42	PK
Vertical	11490.045	49.60	-8.79	40.81	54	-13.19	AV
Vertical	17235.123	59.27	-3.18	56.09	68.2	-12.11	PK
Vertical	17235.123	44.85	-3.18	41.67	54	-12.33	AV
Horizontal	4679.037	70.55	-20.24	50.31	74	-23.69	PK
Horizontal	4679.037	59.68	-20.24	39.44	54	-14.56	AV
Horizontal	11490.034	62.08	-8.79	53.29	68.2	-14.91	PK
Horizontal	11490.034	49.47	-8.79	40.68	54	-13.32	AV
Horizontal	17235.142	56.87	-3.18	53.69	68.2	-14.51	PK
Horizontal	17235.142	44.46	-3.18	41.28	54	-12.72	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.089	72.24	-20.42	51.83	74	-22.17	PK
Vertical	4592.089	59.65	-20.42	39.24	54	-14.76	AV
Vertical	11570.105	64.50	-8.86	55.64	68.2	-12.56	PK
Vertical	11570.105	49.97	-8.86	41.11	54	-12.89	AV
Vertical	17355.129	56.15	-2.52	53.63	68.2	-14.57	PK
Vertical	17355.129	44.82	-2.52	42.30	54	-11.70	AV
Horizontal	4592.039	72.17	-20.42	51.75	74	-22.25	PK
Horizontal	4592.039	59.53	-20.42	39.12	54	-14.88	AV
Horizontal	11570.195	64.74	-8.86	55.88	68.2	-12.32	PK
Horizontal	11570.195	49.81	-8.86	40.95	54	-13.05	AV
Horizontal	17355.170	56.68	-2.52	54.16	68.2	-14.04	PK
Horizontal	17355.170	44.35	-2.52	41.83	54	-12.17	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.068	72.87	-18.93	53.94	68.2	-14.26	PK
Vertical	6039.068	59.60	-18.93	40.67	54	-13.33	AV
Vertical	11650.130	61.15	-8.92	52.23	74	-21.77	PK
Vertical	11650.130	49.96	-8.92	41.04	54	-12.96	AV
Vertical	17475.156	56.26	-1.86	54.40	68.2	-13.80	PK
Vertical	17475.156	44.80	-1.86	42.94	54	-11.06	AV
Horizontal	6039.189	70.21	-18.93	51.28	68.2	-16.92	PK
Horizontal	6039.189	59.13	-18.93	40.20	54	-13.80	AV
Horizontal	11650.119	63.47	-8.92	54.55	74	-19.45	PK
Horizontal	11650.119	49.26	-8.92	40.34	54	-13.66	AV
Horizontal	17475.079	57.14	-1.86	55.28	68.2	-12.92	PK
Horizontal	17475.079	44.52	-1.86	42.66	54	-11.34	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 (5.8G) -- 802.11ac-HT40
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.182	70.39	-20.24	50.15	74	-23.85	PK
Vertical	4679.182	59.36	-20.24	39.12	54	-14.88	AV
Vertical	11510.070	63.16	-8.81	54.35	74	-19.65	PK
Vertical	11510.070	49.53	-8.81	40.72	54	-13.28	AV
Vertical	17265.154	59.43	-3.01	56.42	68.2	-11.78	PK
Vertical	17265.154	44.85	-3.01	41.84	54	-12.16	AV
Horizontal	4679.004	73.39	-20.24	53.14	74	-20.86	PK
Horizontal	4679.004	59.25	-20.24	39.00	54	-15.00	AV
Horizontal	11510.183	61.63	-8.81	52.82	74	-21.18	PK
Horizontal	11510.183	49.63	-8.81	40.82	54	-13.18	AV
Horizontal	17265.028	59.79	-3.01	56.78	68.2	-11.42	PK
Horizontal	17265.028	44.86	-3.01	41.85	54	-12.15	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.128	71.41	-18.93	52.47	68.2	-15.73	PK
Vertical	6039.128	59.70	-18.93	40.77	54	-13.23	AV
Vertical	11590.065	62.06	-8.87	53.19	74	-20.81	PK
Vertical	11590.065	49.72	-8.87	40.85	54	-13.15	AV
Vertical	17385.022	58.04	-2.35	55.69	68.2	-12.51	PK
Vertical	17385.022	44.07	-2.35	41.72	54	-12.28	AV
Horizontal	6039.093	72.30	-18.93	53.37	68.2	-14.83	PK
Horizontal	6039.093	59.62	-18.93	40.69	54	-13.31	AV
Horizontal	11590.112	61.26	-8.87	52.39	74	-21.61	PK
Horizontal	11590.112	49.10	-8.87	40.23	54	-13.77	AV
Horizontal	17385.080	58.05	-2.35	55.70	68.2	-12.50	PK
Horizontal	17385.080	44.77	-2.35	42.42	54	-11.58	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	4679.132	71.57	-20.24	51.33	74	-22.67	PK
Vertical	4679.132	59.44	-20.24	39.20	54	-14.80	AV
Vertical	11490.128	62.43	-8.79	53.64	68.2	-14.56	PK
Vertical	11490.128	49.11	-8.79	40.32	54	-13.68	AV
Vertical	17235.048	55.11	-3.18	51.93	68.2	-16.27	PK
Vertical	17235.048	44.80	-3.18	41.62	54	-12.38	AV
Horizontal	4679.123	71.70	-20.24	51.46	74	-22.54	PK
Horizontal	4679.123	59.89	-20.24	39.65	54	-14.35	AV
Horizontal	11490.151	62.82	-8.79	54.03	68.2	-14.17	PK
Horizontal	11490.151	49.92	-8.79	41.13	54	-12.87	AV
Horizontal	17235.052	59.23	-3.18	56.05	68.2	-12.15	PK
Horizontal	17235.052	44.63	-3.18	41.45	54	-12.55	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.186	72.45	-20.42	52.04	74	-21.96	PK
Vertical	4592.186	59.68	-20.42	39.26	54	-14.74	AV
Vertical	11570.018	63.64	-8.86	54.78	68.2	-13.42	PK
Vertical	11570.018	49.21	-8.86	40.35	54	-13.65	AV
Vertical	17355.042	57.59	-2.52	55.07	68.2	-13.13	PK
Vertical	17355.042	44.15	-2.52	41.63	54	-12.37	AV
Horizontal	4592.018	72.40	-20.42	51.99	74	-22.01	PK
Horizontal	4592.018	59.39	-20.42	38.97	54	-15.03	AV
Horizontal	11570.122	61.70	-8.86	52.84	68.2	-15.36	PK
Horizontal	11570.122	49.64	-8.86	40.78	54	-13.22	AV
Horizontal	17355.056	55.17	-2.52	52.65	68.2	-15.55	PK
Horizontal	17355.056	44.34	-2.52	41.82	54	-12.18	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.084	74.04	-18.93	55.11	68.2	-13.09	PK
Vertical	6039.084	59.48	-18.93	40.55	54	-13.45	AV
Vertical	11650.054	60.30	-8.92	51.38	74	-22.62	PK
Vertical	11650.054	49.88	-8.92	40.96	54	-13.04	AV
Vertical	17475.122	55.77	-1.86	53.91	68.2	-14.29	PK
Vertical	17475.122	44.46	-1.86	42.60	54	-11.40	AV
Horizontal	6039.044	72.44	-18.93	53.51	68.2	-14.69	PK
Horizontal	6039.044	59.35	-18.93	40.42	54	-13.58	AV
Horizontal	11650.136	61.89	-8.92	52.97	74	-21.03	PK
Horizontal	11650.136	49.02	-8.92	40.10	54	-13.90	AV
Horizontal	17475.154	57.48	-1.86	55.62	68.2	-12.58	PK
Horizontal	17475.154	44.22	-1.86	42.36	54	-11.64	AV

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

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

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

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

Test Mode :	TX (5.8G) -- 802.11ax-HT40
-------------	----------------------------

Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.178	74.60	-20.24	54.36	74	-19.64	PK
Vertical	4679.178	59.60	-20.24	39.36	54	-14.64	AV
Vertical	11510.032	60.23	-8.81	51.42	74	-22.58	PK
Vertical	11510.032	49.58	-8.81	40.77	54	-13.23	AV
Vertical	17265.063	58.79	-3.01	55.78	68.2	-12.42	PK
Vertical	17265.063	44.64	-3.01	41.63	54	-12.37	AV
Horizontal	4679.006	72.12	-20.24	51.88	74	-22.12	PK
Horizontal	4679.006	59.84	-20.24	39.60	54	-14.40	AV
Horizontal	11510.100	60.79	-8.81	51.98	74	-22.02	PK
Horizontal	11510.100	49.91	-8.81	41.10	54	-12.90	AV
Horizontal	17265.021	55.18	-3.01	52.17	68.2	-16.03	PK
Horizontal	17265.021	44.41	-3.01	41.40	54	-12.60	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.126	73.19	-18.93	54.26	68.2	-13.94	PK
Vertical	6039.126	59.87	-18.93	40.94	54	-13.06	AV
Vertical	11590.079	60.08	-8.87	51.21	74	-22.79	PK
Vertical	11590.079	49.47	-8.87	40.60	54	-13.40	AV
Vertical	17385.014	55.71	-2.35	53.36	68.2	-14.84	PK
Vertical	17385.014	44.34	-2.35	41.99	54	-12.01	AV
Horizontal	6039.091	72.38	-18.93	53.45	68.2	-14.75	PK
Horizontal	6039.091	59.30	-18.93	40.36	54	-13.64	AV
Horizontal	11590.158	63.71	-8.87	54.84	74	-19.16	PK
Horizontal	11590.158	49.82	-8.87	40.95	54	-13.05	AV
Horizontal	17385.186	58.72	-2.35	56.37	68.2	-11.83	PK
Horizontal	17385.186	44.14	-2.35	41.79	54	-12.21	AV

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

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

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

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

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

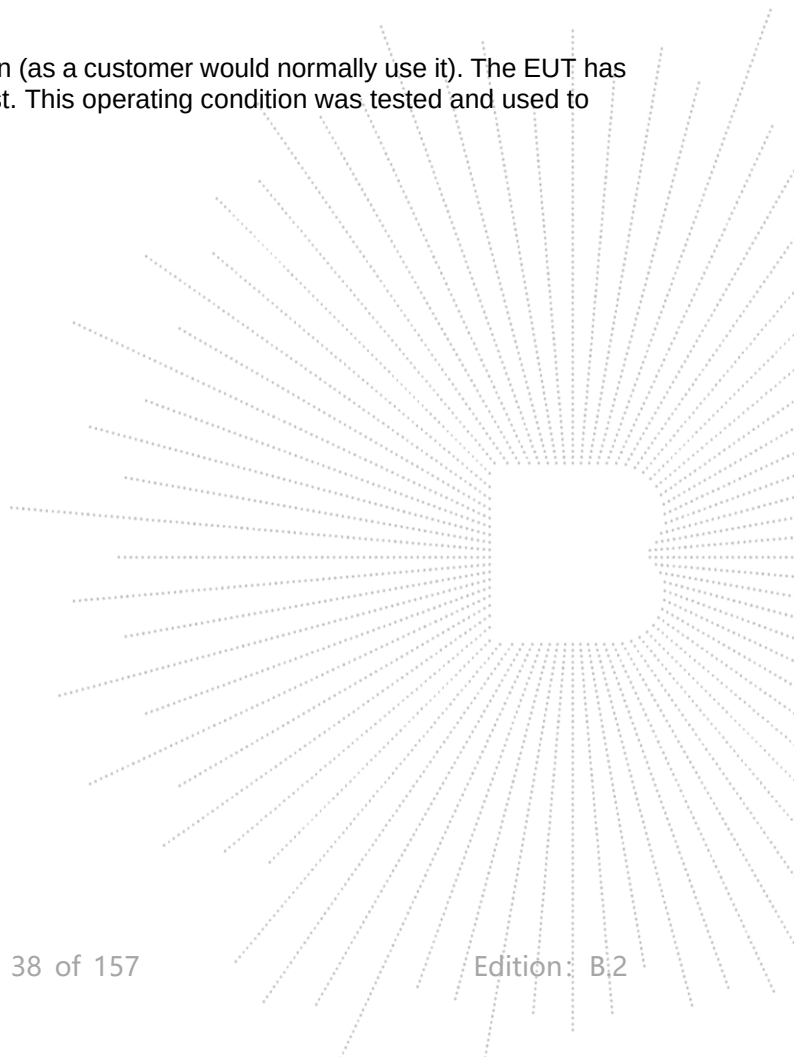
For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of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



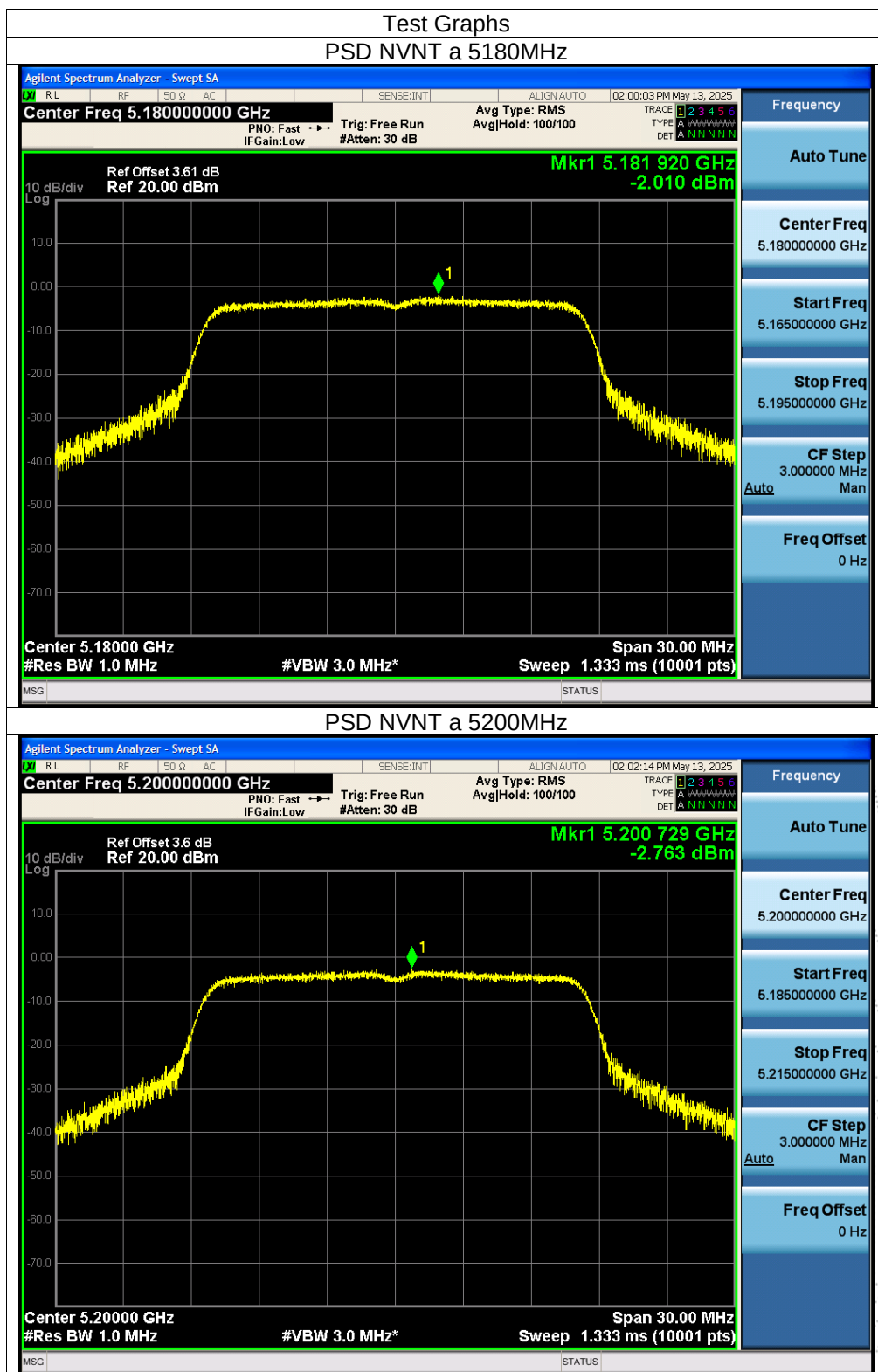
8.5 Test Result

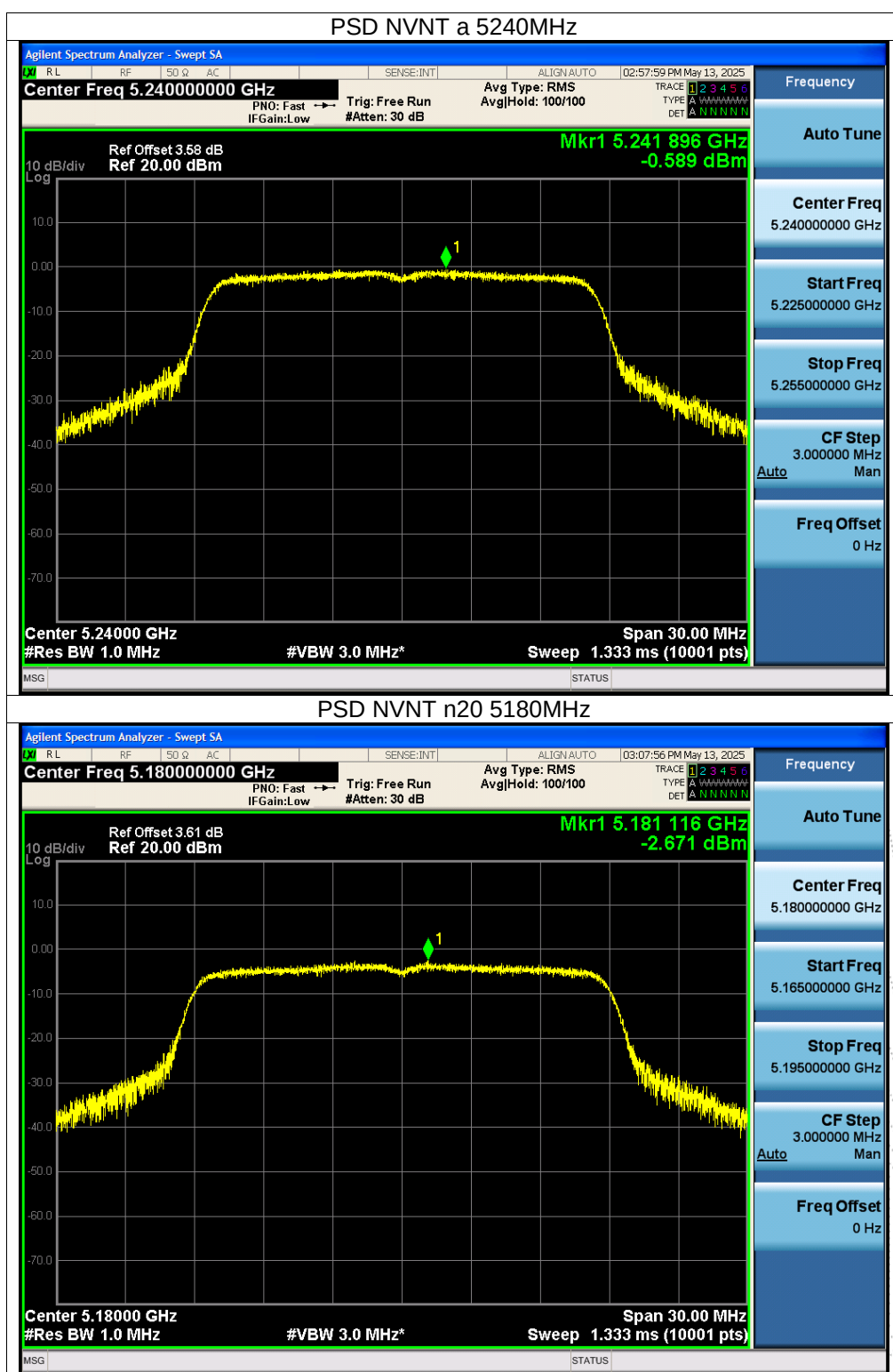
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz) TX Frequency U-NII-3(5745-5825MHz)		

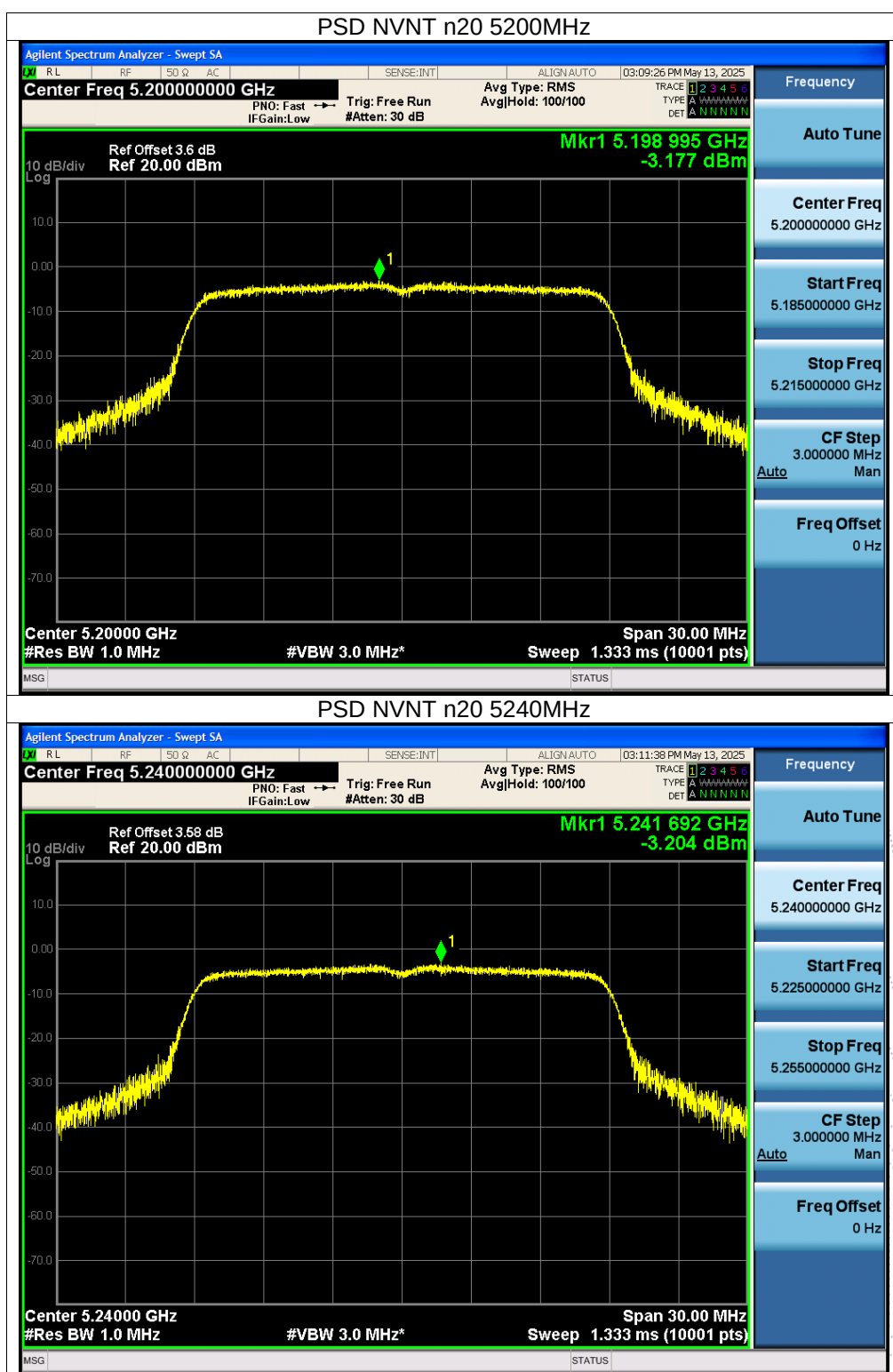
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/1MHz)	Limit (dBm/1MHz)	Verdict
NVNT	a	5180	-2.01	11	Pass
NVNT	a	5200	-2.76	11	Pass
NVNT	a	5240	-0.59	11	Pass
NVNT	n20	5180	-2.67	11	Pass
NVNT	n20	5200	-3.18	11	Pass
NVNT	n20	5240	-3.2	11	Pass
NVNT	n40	5190	-7.25	11	Pass
NVNT	n40	5230	-7.4	11	Pass
NVNT	ac20	5180	-3.34	11	Pass
NVNT	ac20	5200	-3.05	11	Pass
NVNT	ac20	5240	-2.78	11	Pass
NVNT	ac40	5190	-7.06	11	Pass
NVNT	ac40	5230	-6.73	11	Pass
NVNT	ax20	5180	-3.21	11	Pass
NVNT	ax20	5200	-3.36	11	Pass
NVNT	ax20	5240	-3.45	11	Pass
NVNT	ax40	5190	-7.29	11	Pass
NVNT	ax40	5230	-7.24	11	Pass

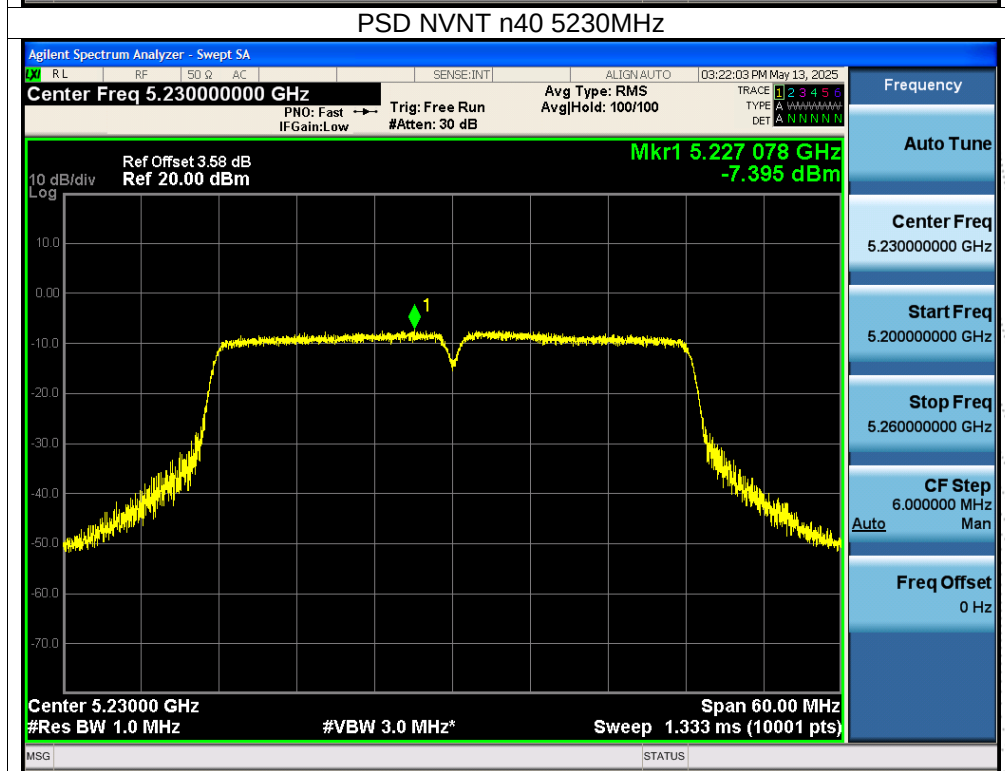
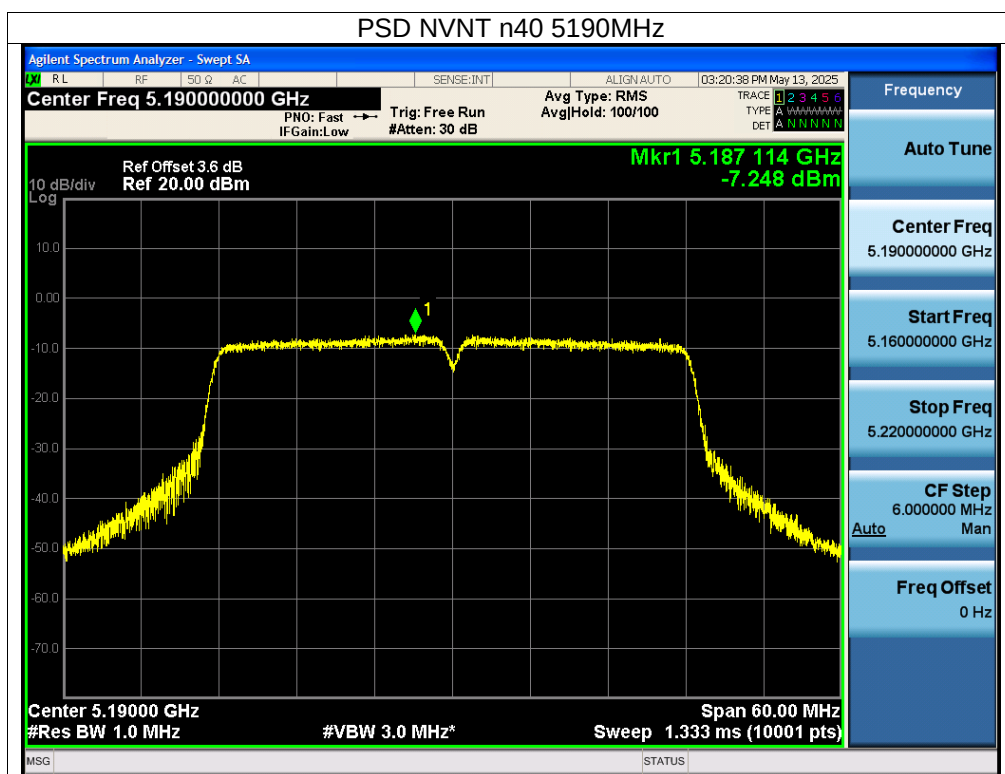
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/510KHz)	Conducted PSD (dBm/500KHz)	Limit (dBm)	Verdict
NVNT	a	5745	-6.18	-6.266	30	Pass
NVNT	a	5785	-6.25	-6.336	30	Pass
NVNT	a	5825	-6.65	-6.736	30	Pass
NVNT	n20	5745	-7.4	-7.486	30	Pass
NVNT	n20	5785	-7.77	-7.856	30	Pass
NVNT	n20	5825	-8.02	-8.106	30	Pass
NVNT	n40	5755	-11.7	-11.786	30	Pass
NVNT	n40	5795	-11.72	-11.806	30	Pass
NVNT	ac20	5745	-7.58	-7.666	30	Pass
NVNT	ac20	5785	-7.64	-7.726	30	Pass
NVNT	ac20	5825	-8.23	-8.316	30	Pass
NVNT	ac40	5755	-11.58	-11.666	30	Pass
NVNT	ac40	5795	-11.69	-11.776	30	Pass
NVNT	ax20	5745	-7.64	-7.726	30	Pass
NVNT	ax20	5785	-7.99	-8.076	30	Pass
NVNT	ax20	5825	-7.85	-7.936	30	Pass
NVNT	ax40	5755	-11.37	-11.456	30	Pass
NVNT	ax40	5795	-11.68	-11.766	30	Pass

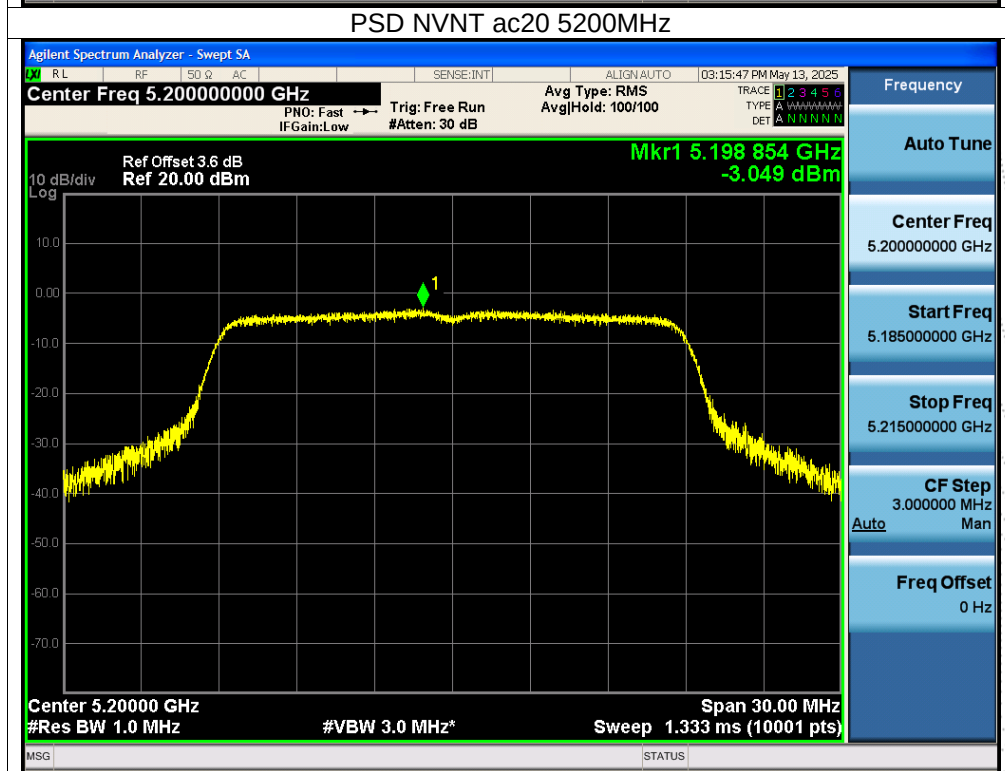
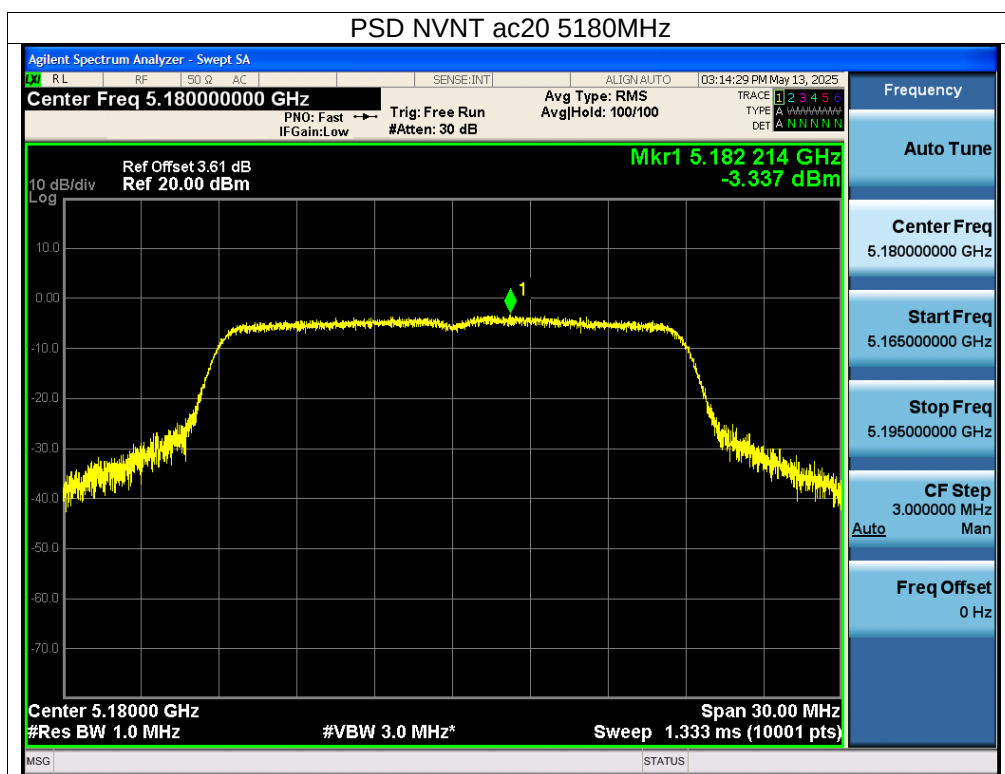
Note: Correction Factor = $10\log(500\text{KHz}/\text{RBW in measurement}) = -0.086$

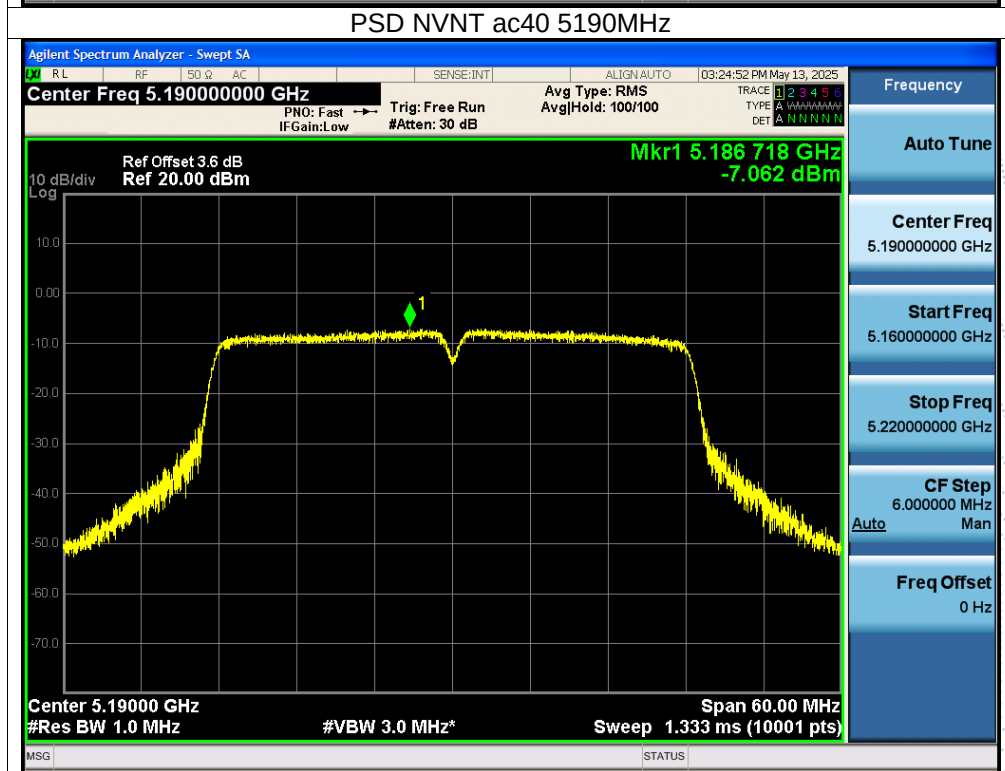
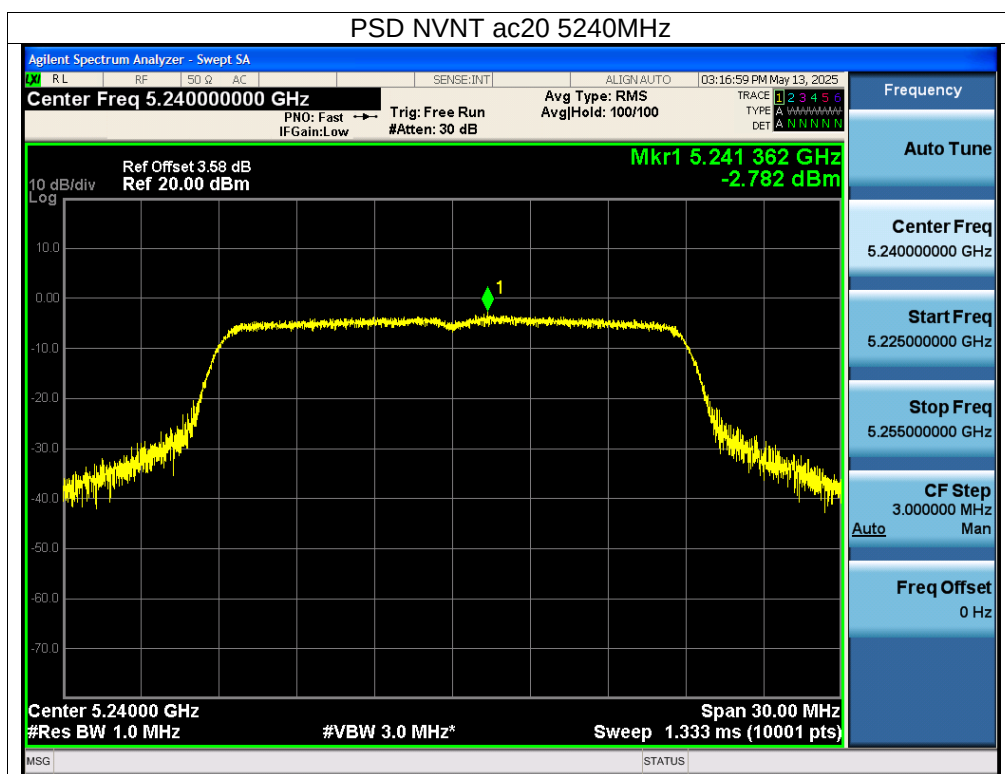


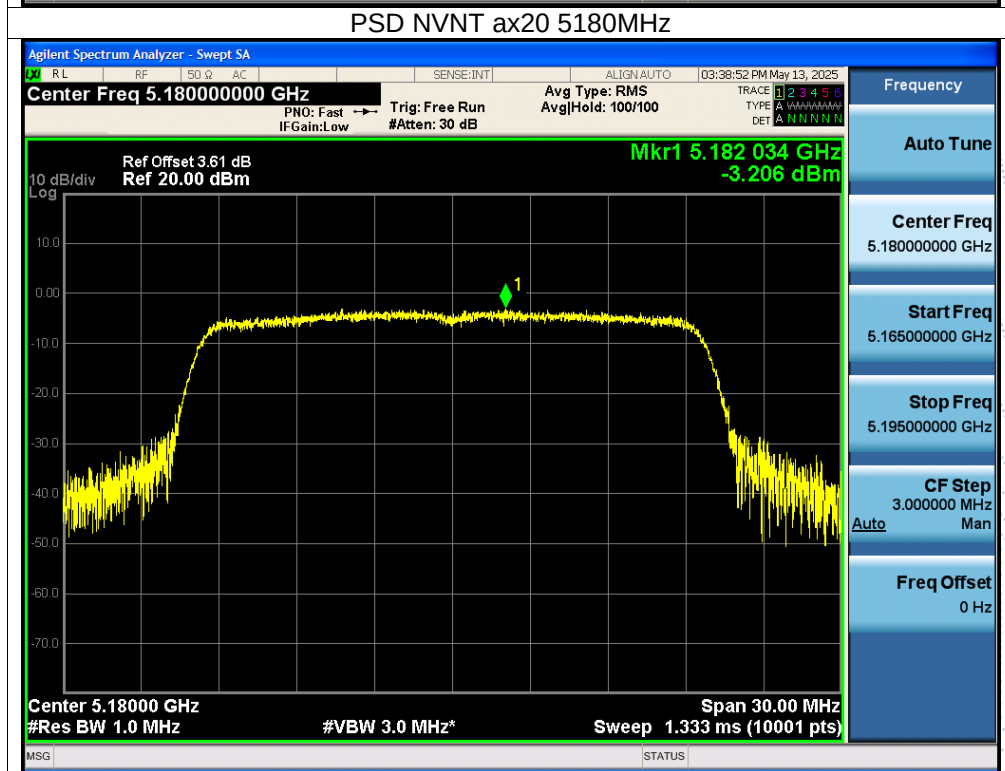
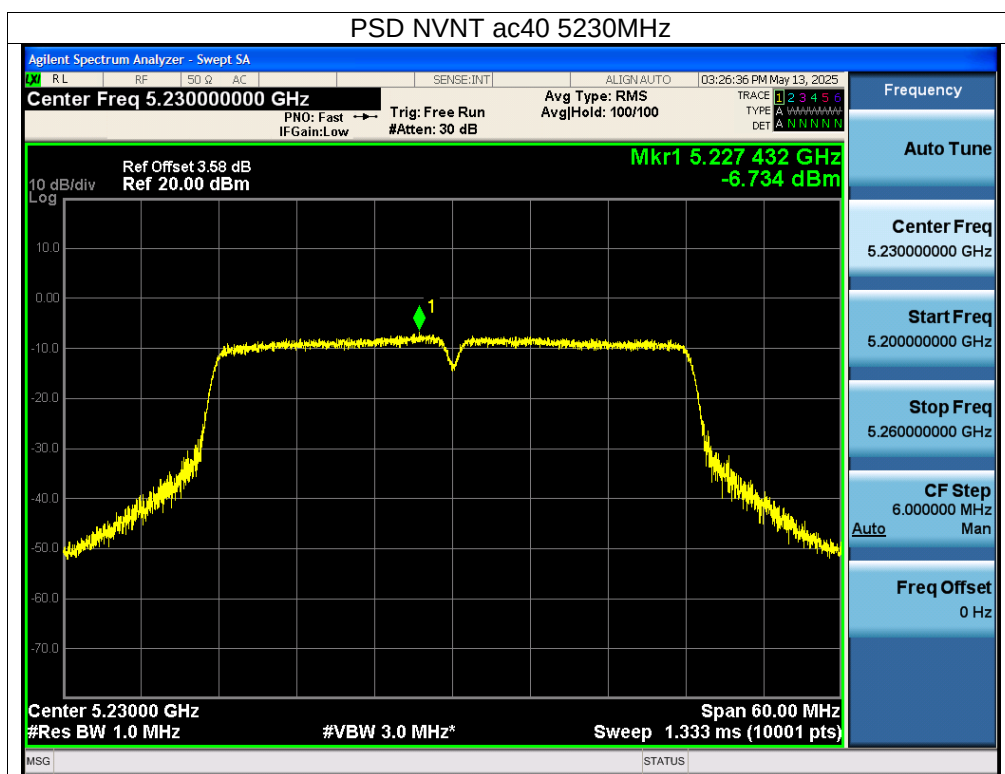


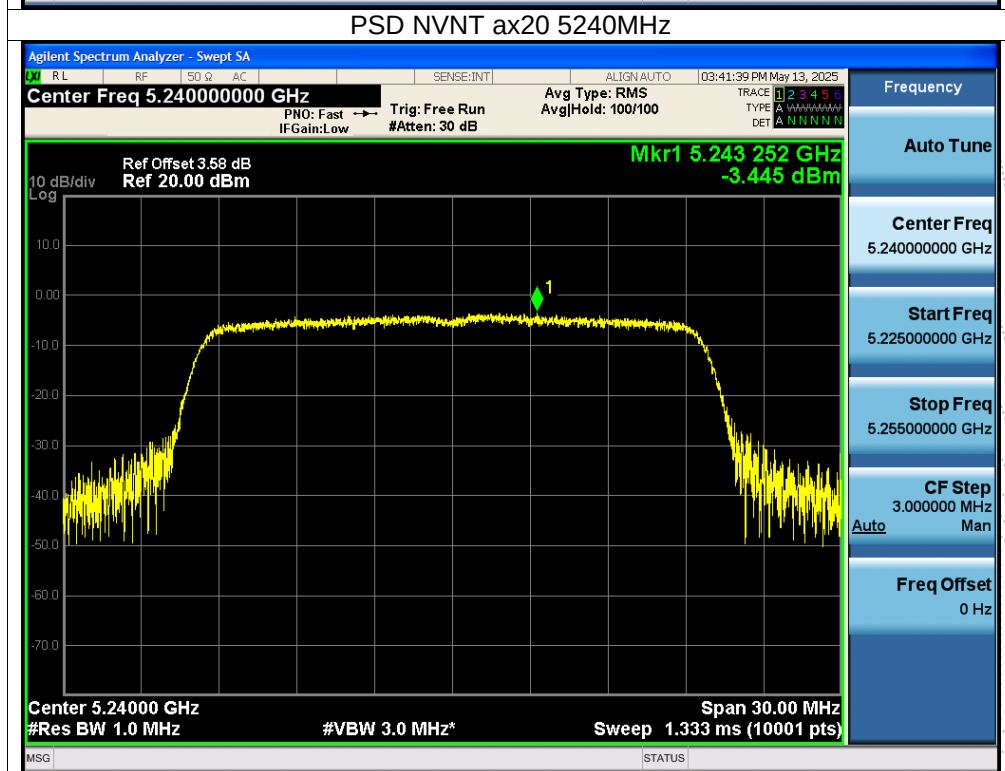
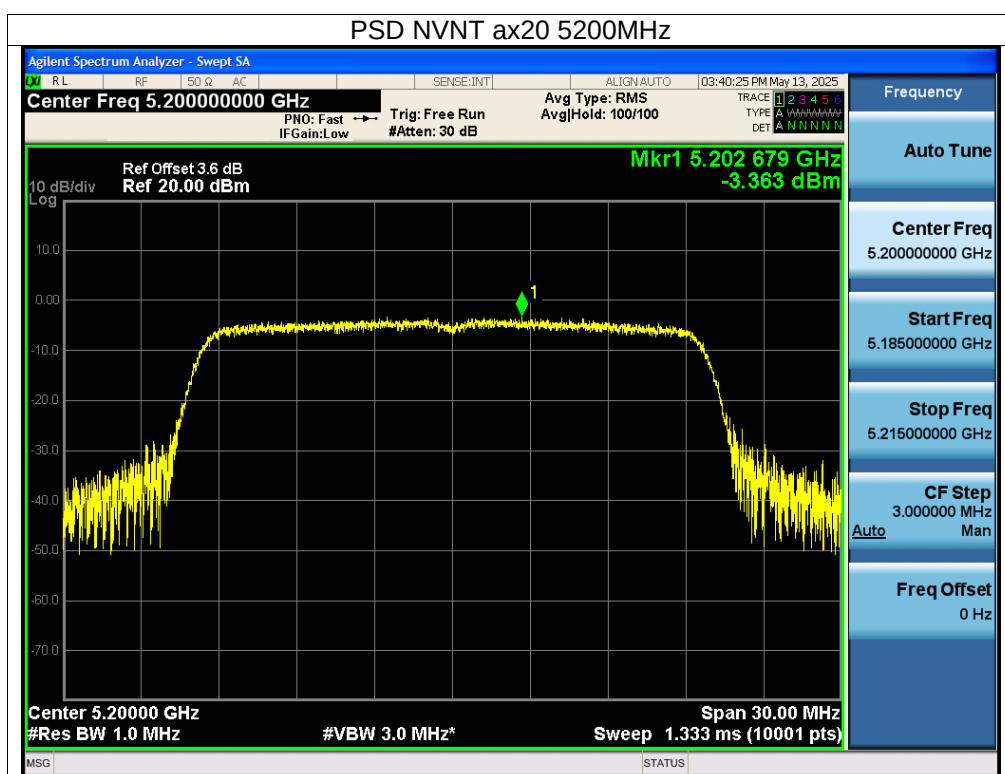


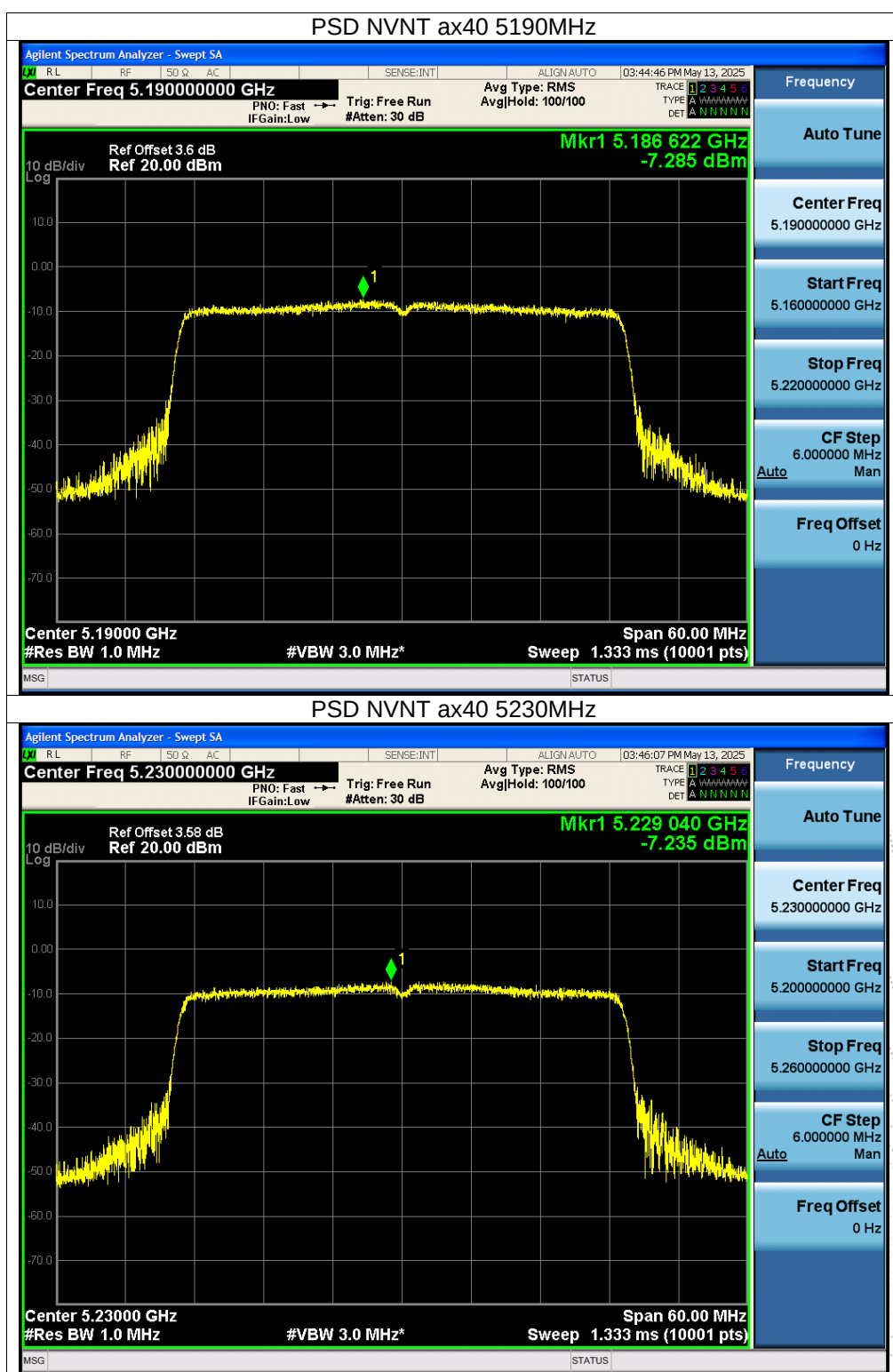


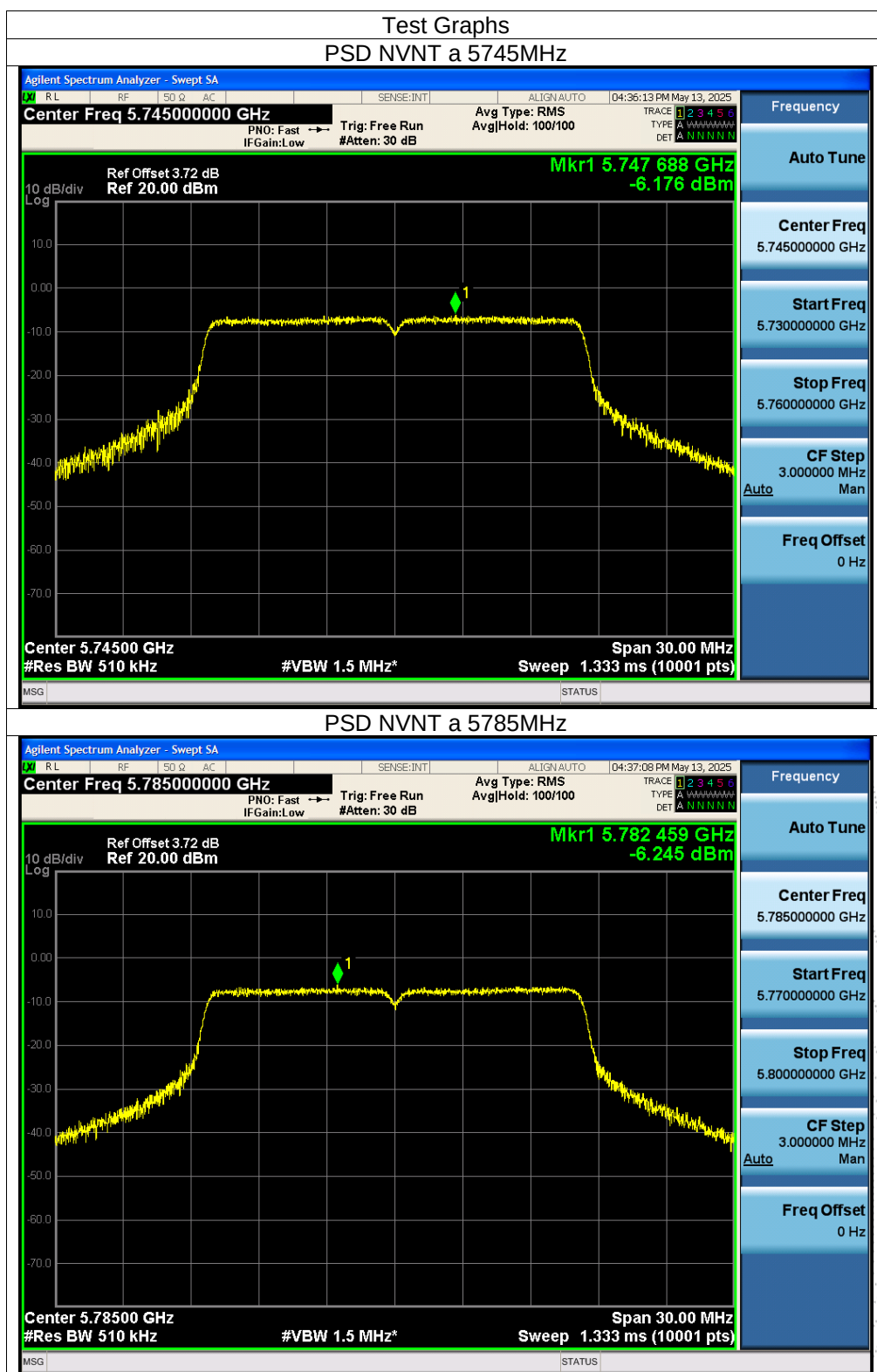


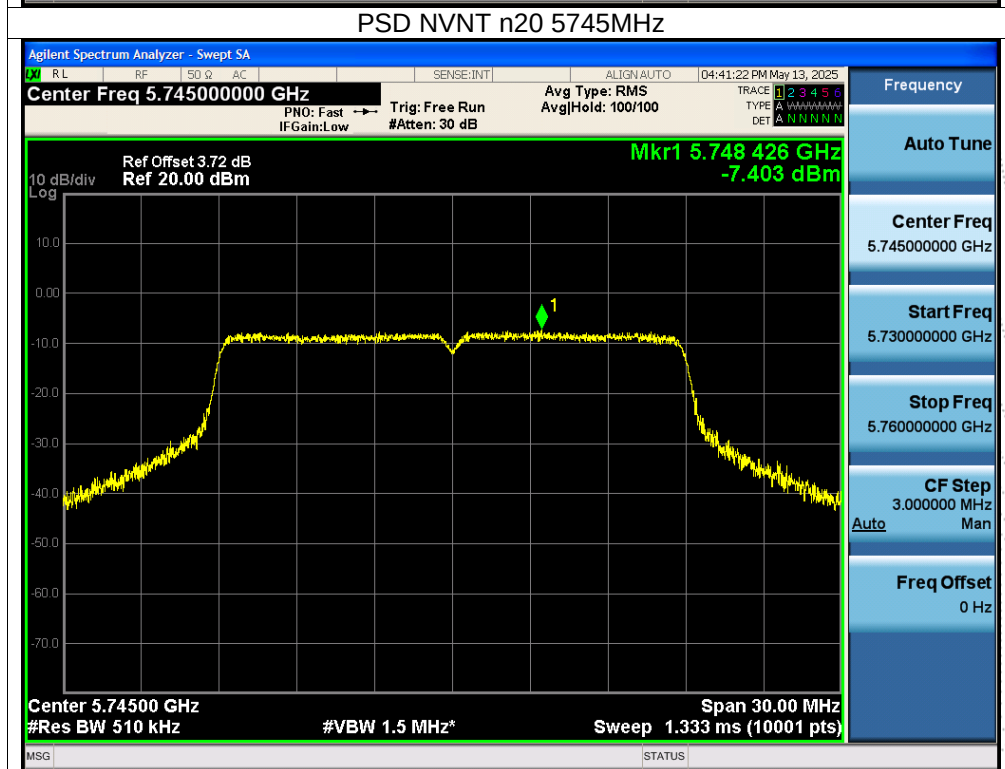
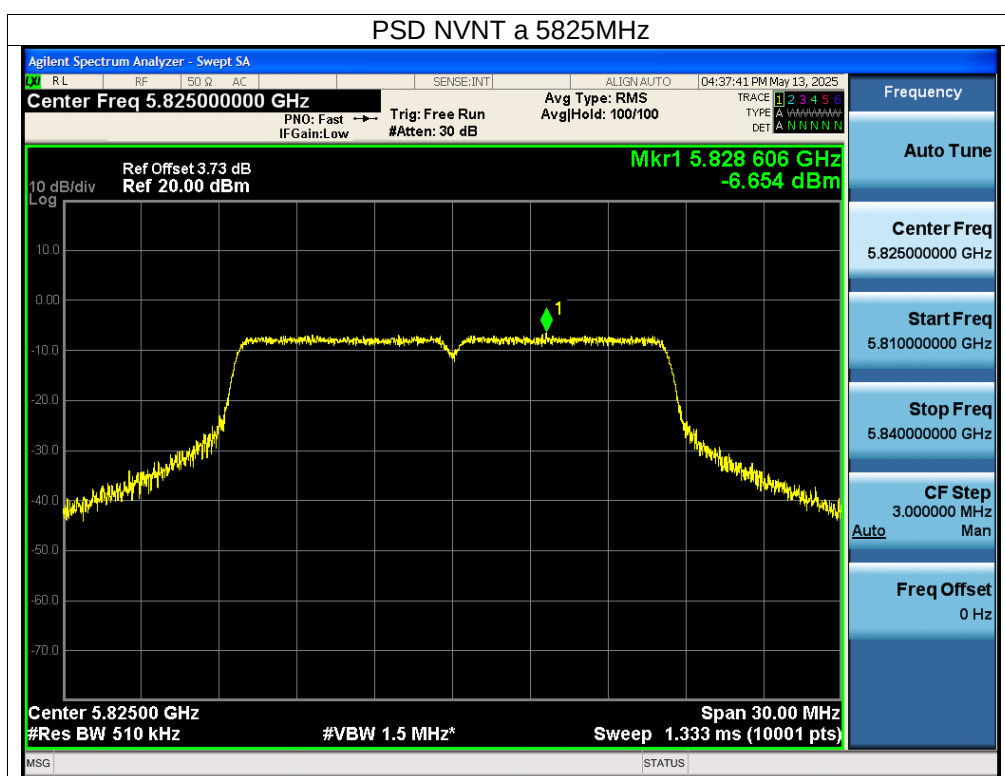


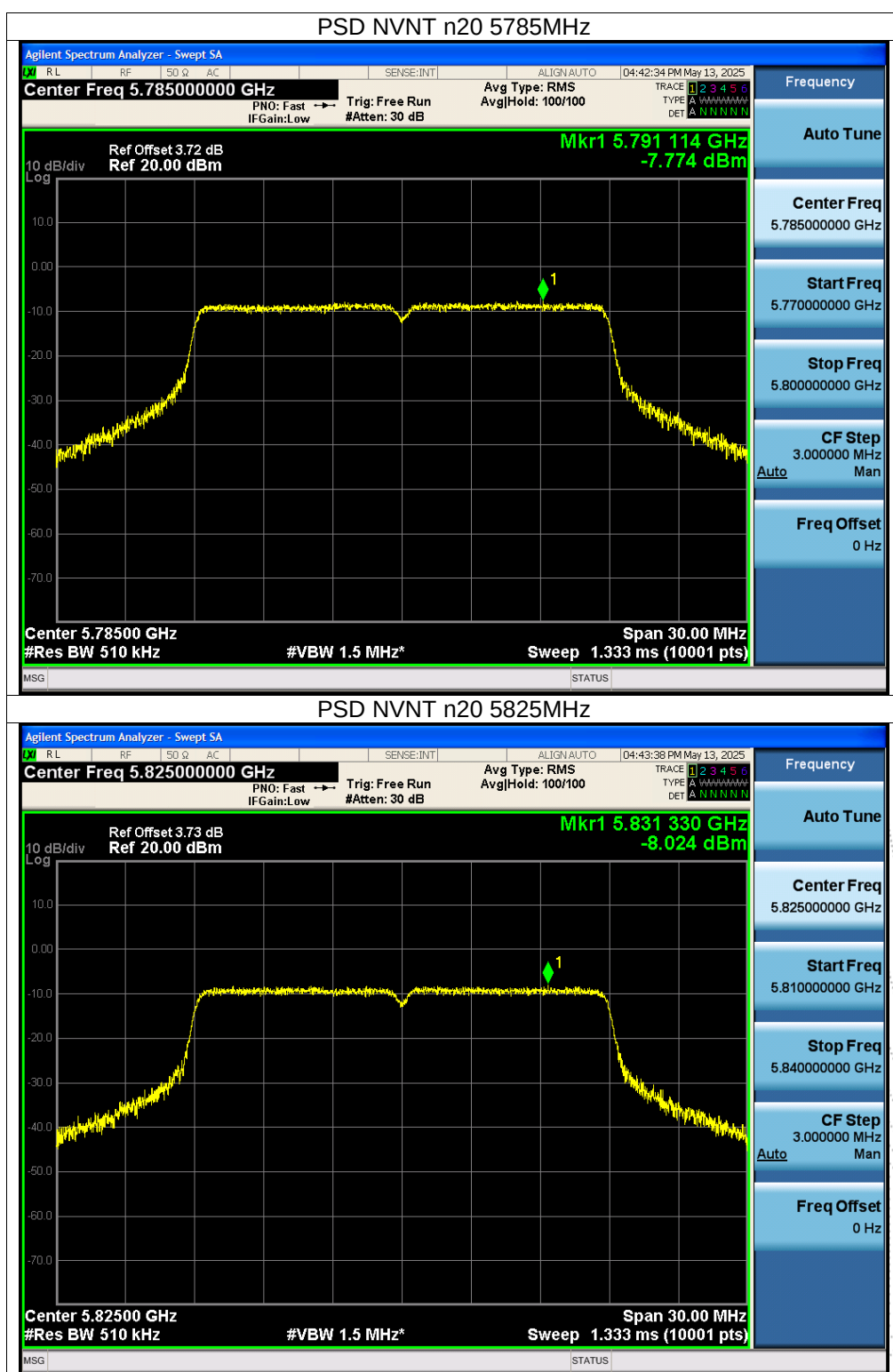


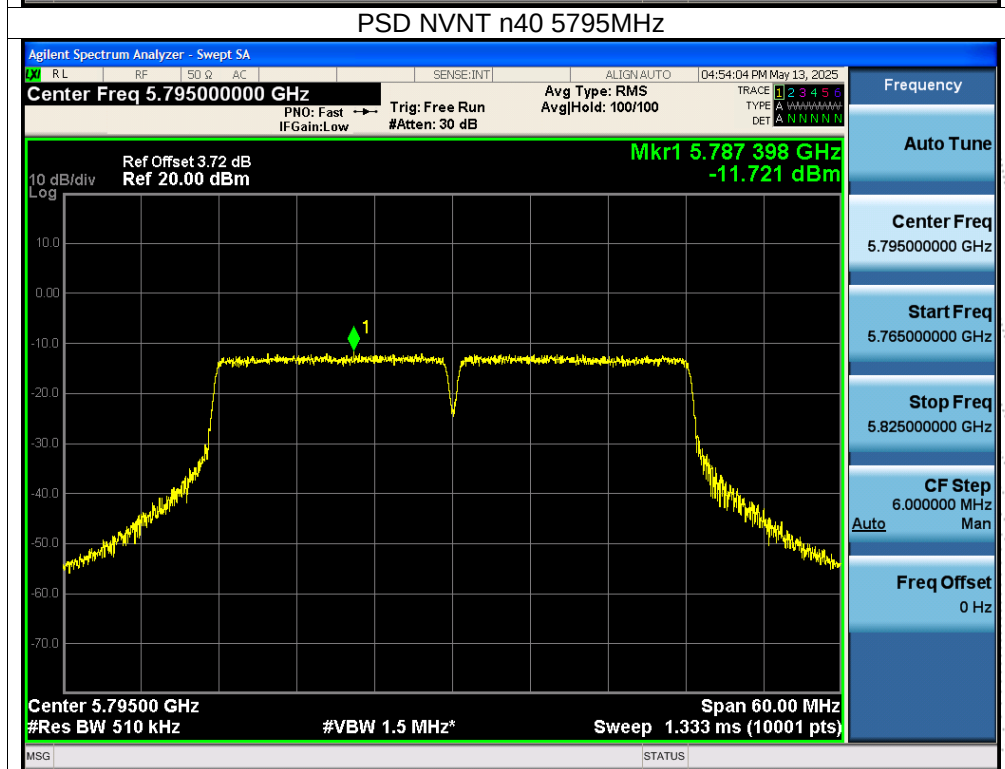
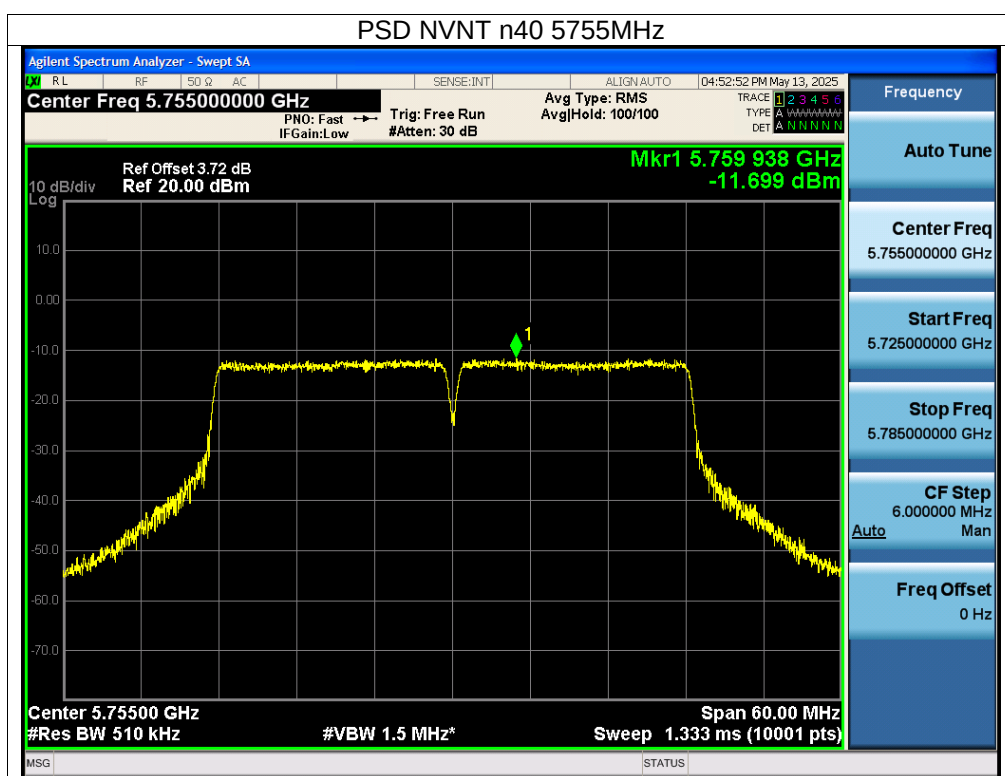


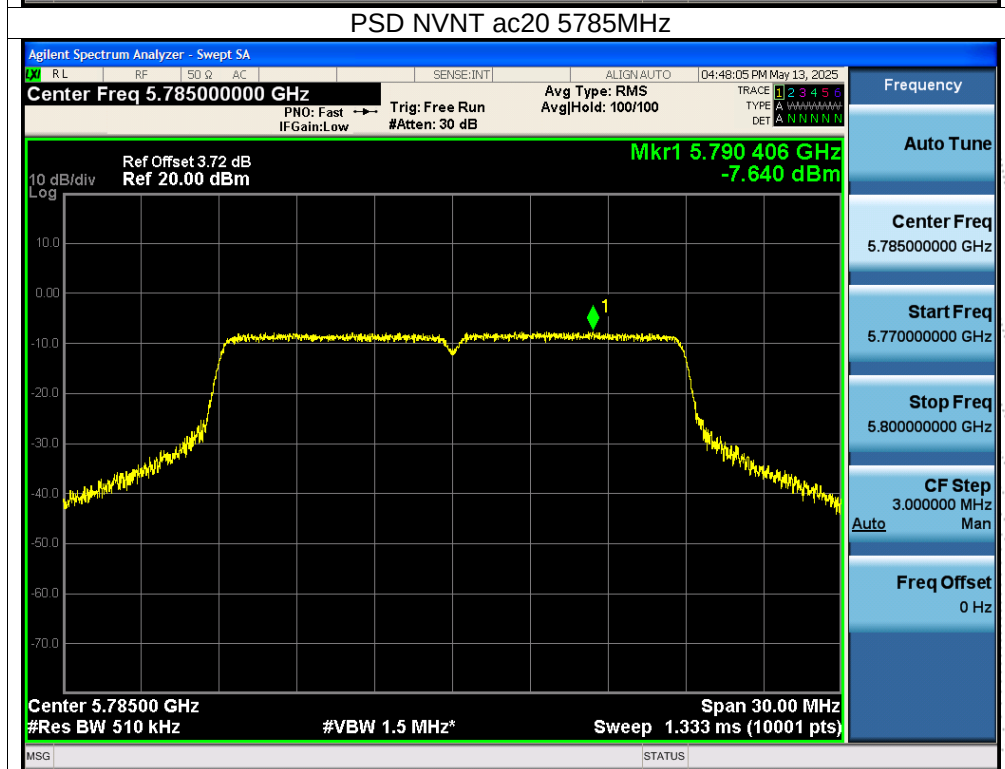
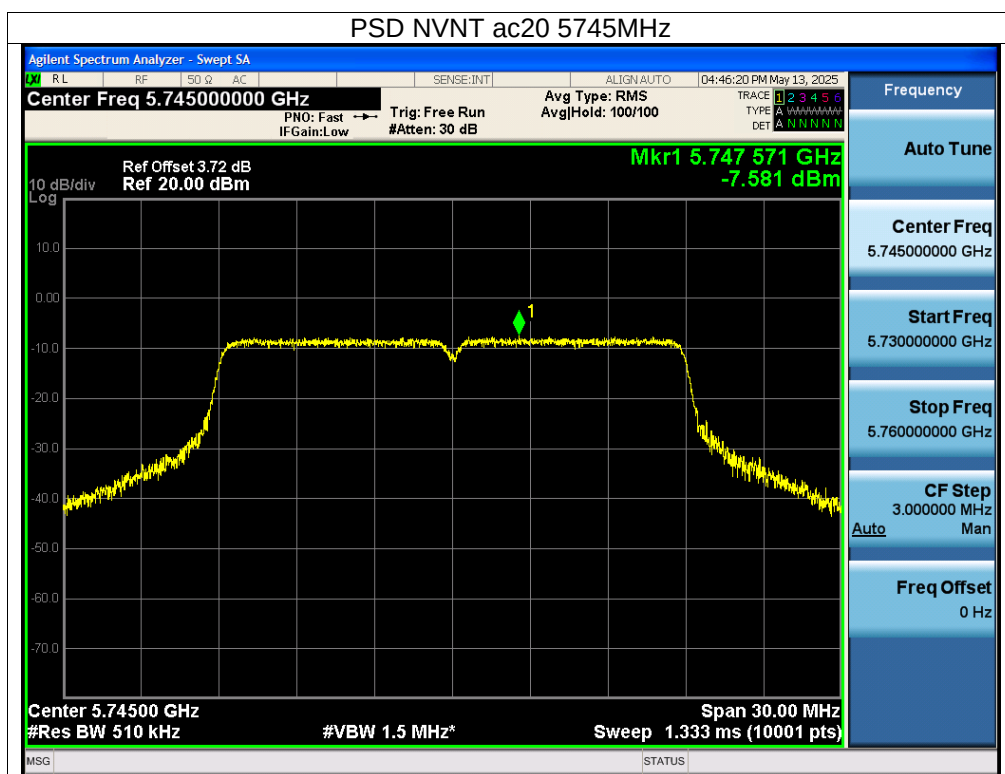


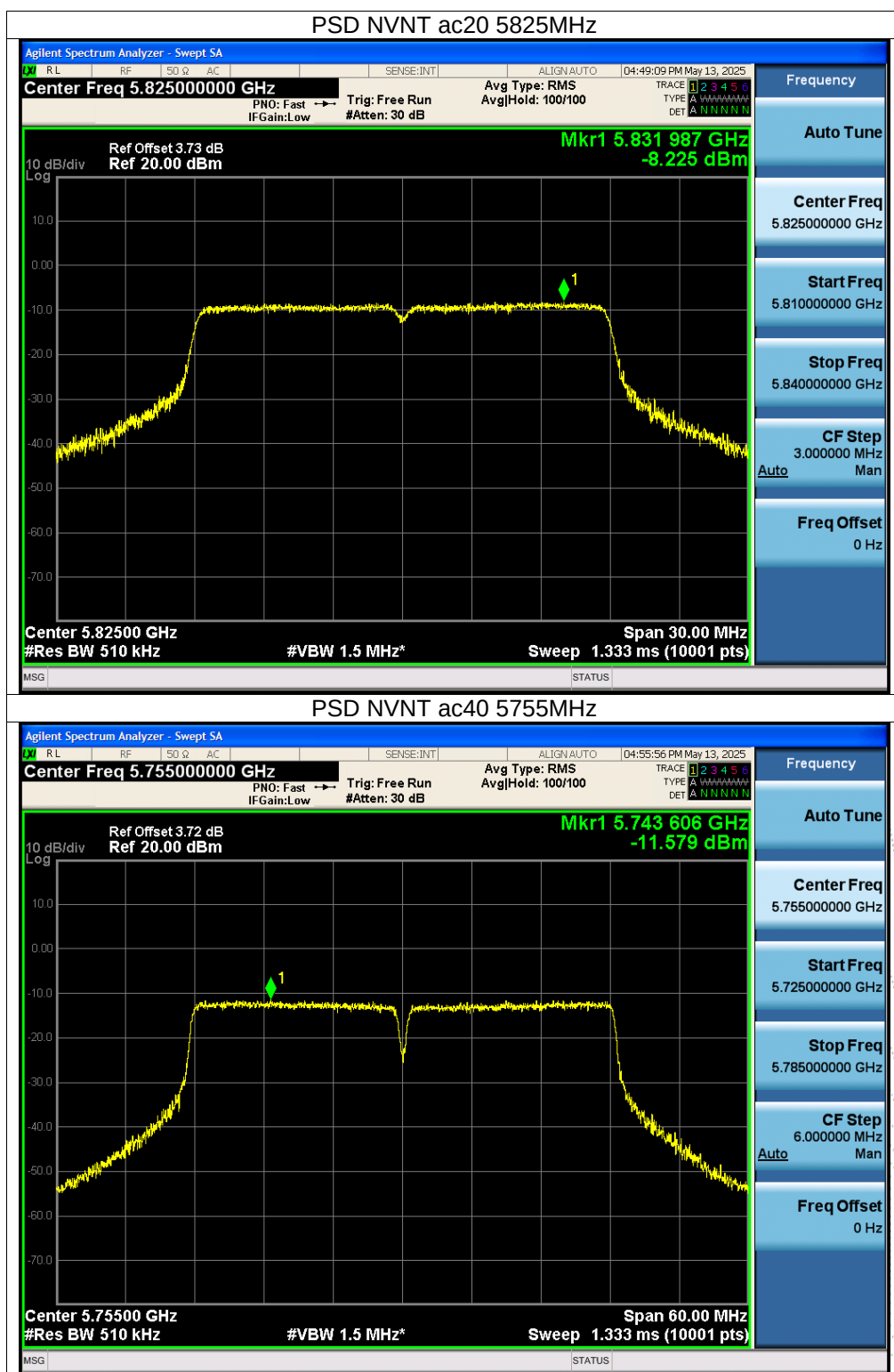


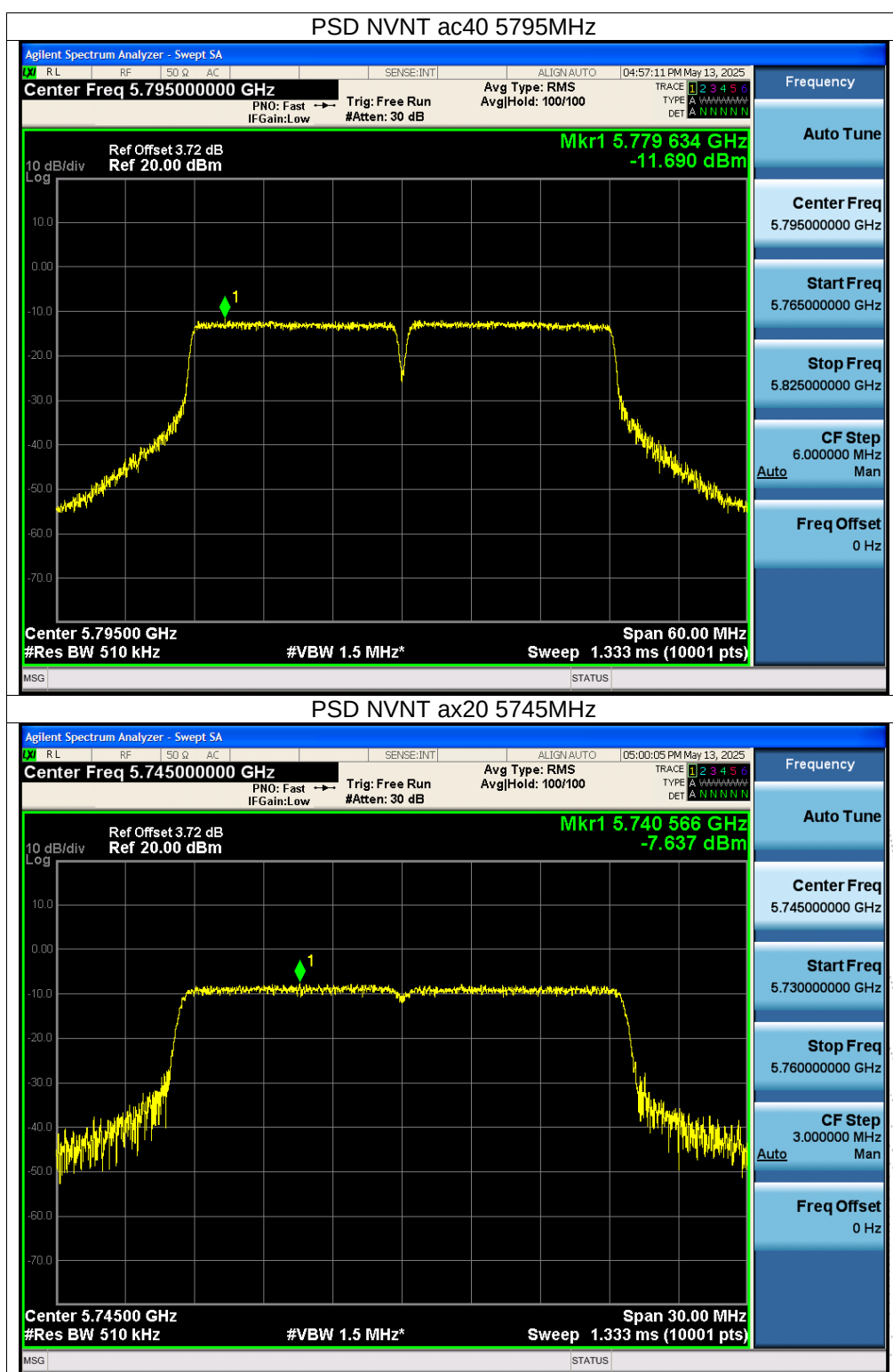


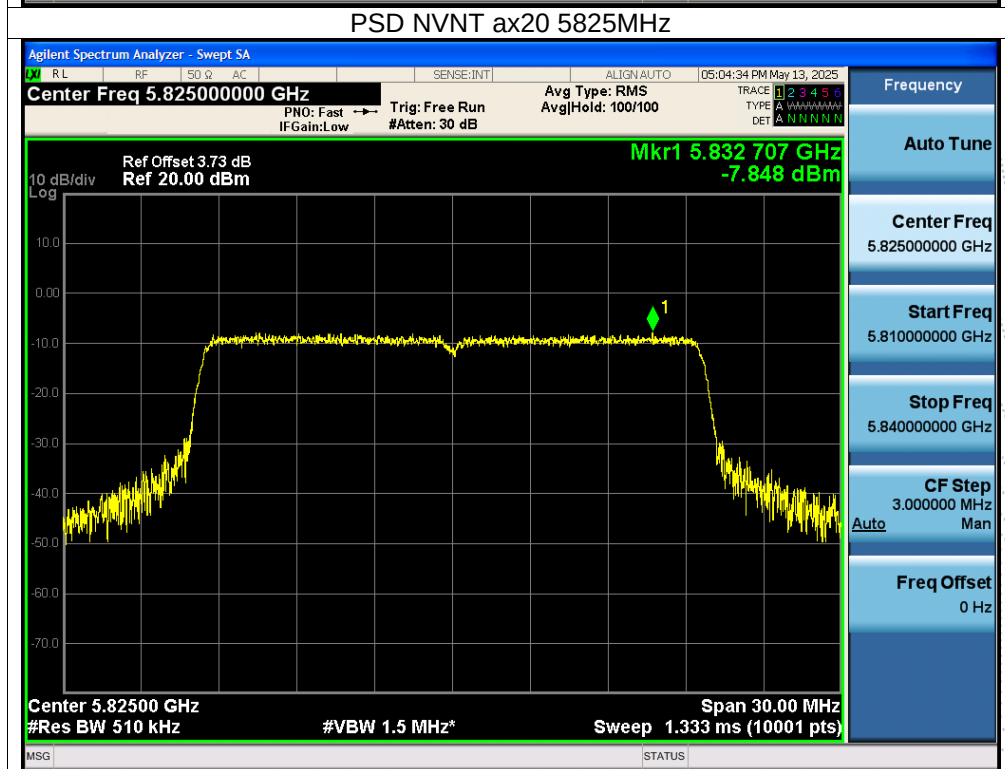
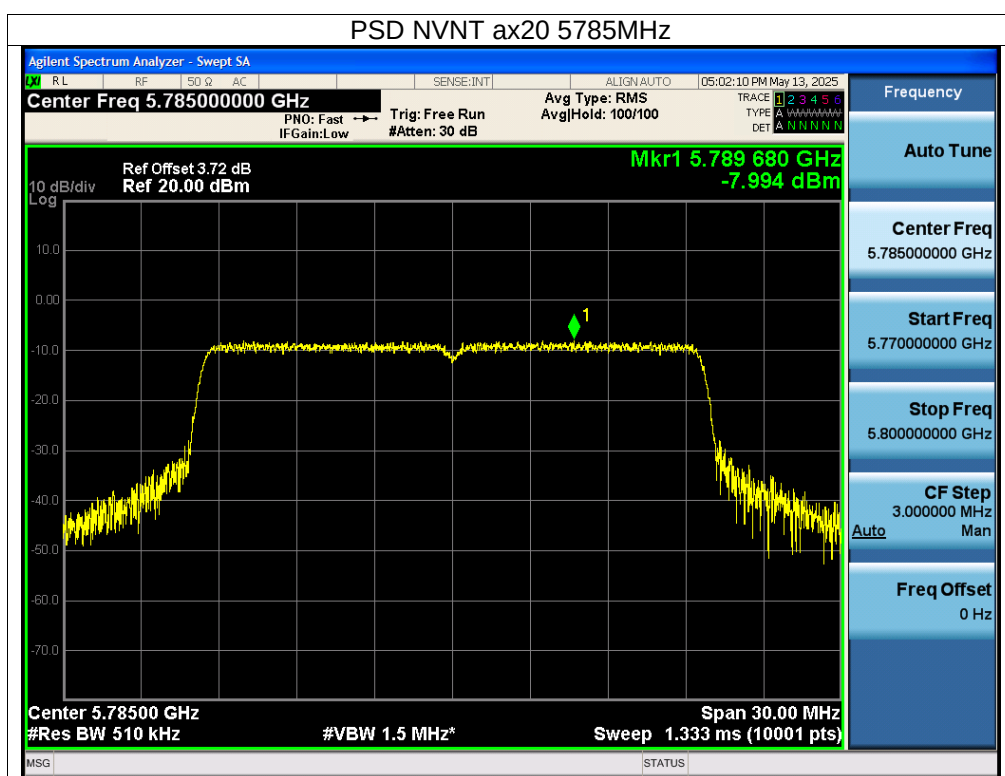


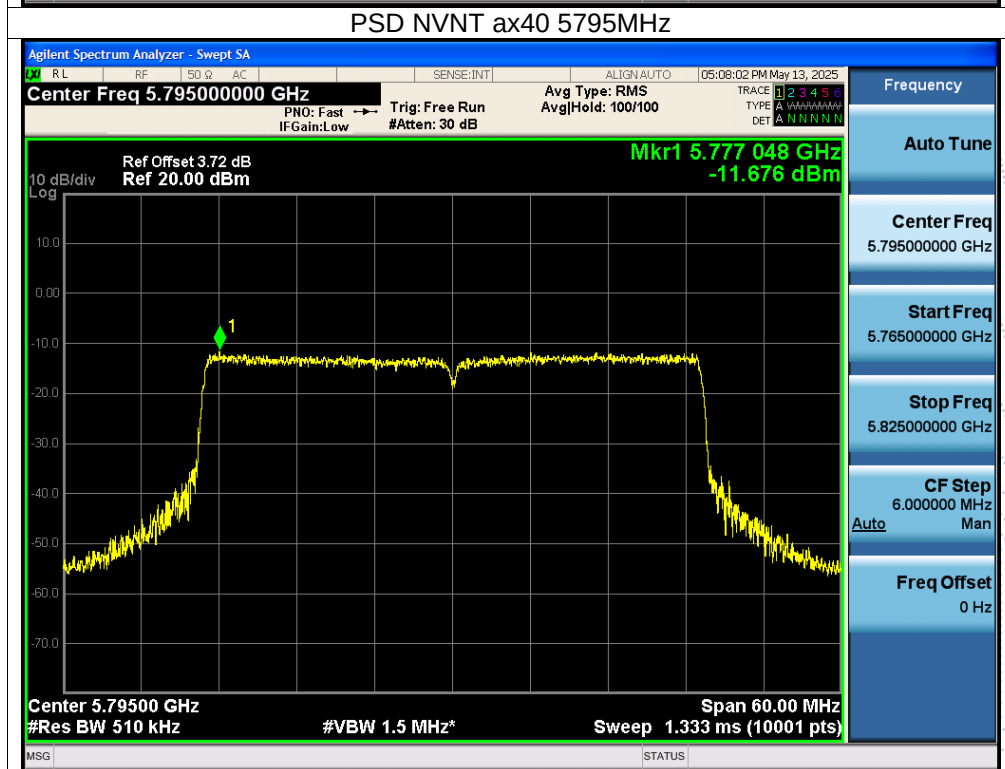
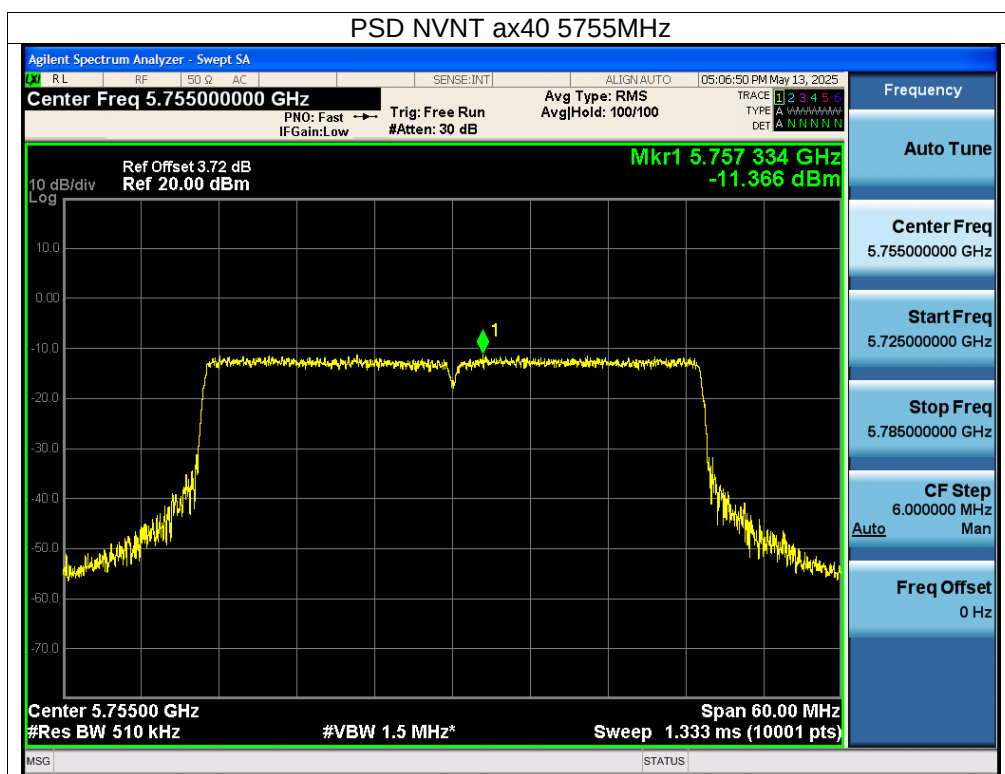






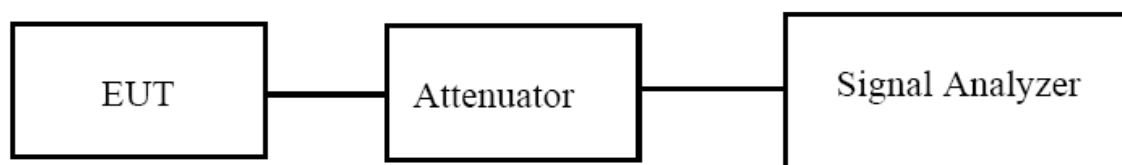






9. 26dB & 6dB & 99% Emission Bandwidth

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:	AC 120V/60Hz
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-26dB bandwidth (MHz)	Result
NVNT	a	5180	16.642	22.931	Pass
NVNT	a	5200	16.654	23.927	Pass
NVNT	a	5240	16.654	23.683	Pass
NVNT	n20	5180	17.83	24.935	Pass
NVNT	n20	5200	17.843	25.09	Pass
NVNT	n20	5240	17.844	24.032	Pass
NVNT	n40	5190	36.349	45.672	Pass
NVNT	n40	5230	36.398	45.66	Pass
NVNT	ac20	5180	17.839	24.505	Pass
NVNT	ac20	5200	17.851	23.821	Pass
NVNT	ac20	5240	17.838	24.137	Pass
NVNT	ac40	5190	36.361	44.85	Pass
NVNT	ac40	5230	36.395	45.613	Pass
NVNT	ax20	5180	19.056	25.254	Pass
NVNT	ax20	5200	19.014	25.236	Pass
NVNT	ax20	5240	19.031	24.201	Pass
NVNT	ax40	5190	37.844	44.101	Pass
NVNT	ax40	5230	37.932	44.024	Pass

