

TEST REPORT

Report No.: BCTC2507804210-4E

Applicant: D2G Group LLC

Product Name: 43-Inch Non-Touch Digital Signage Cash Wrap

Test Model: DE043NLW

Tested Date: 2025-07-17 to 2025-07-28

Issued Date: 2025-07-28

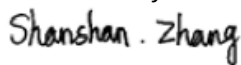
Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2ASCB-DE043NLW

Product Name: 43-Inch Non-Touch Digital Signage Cash Wrap
Trademark: N/A
Model/Type Reference: DE043NLW
Prepared For: D2G Group LLC
Address: 81 Commerce Drive, Fall River, Massachusetts 02720, United States
Manufacturer: GUANGZHOU YOUGUANG OPTOELECTRONICS CO.,LTD.
Address: No.75, Pacific Ind.Zone, Xintang Town, Zengcheng, Guangzhou, China, 11340.
Prepared By: Shenzhen BCTC Testing Co., Ltd.
Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date: 2025-07-17
Sample Tested Date: 2025-07-17 to 2025-07-28
Issue Date: 2025-07-28
Report No.: BCTC2507804210-4E
Test Standards: FCC Part15 15.407
ANSI C63.10:2013
KDB 662911 D01 v02r01
KDB 789033 D02 v02r01
Test Results: PASS
Remark: This is WIFI-5GHz band radio test report.

Tested by:



Shanshan. Zhang / Project Handler

Approved by:



Zero Zhou/Reviewer

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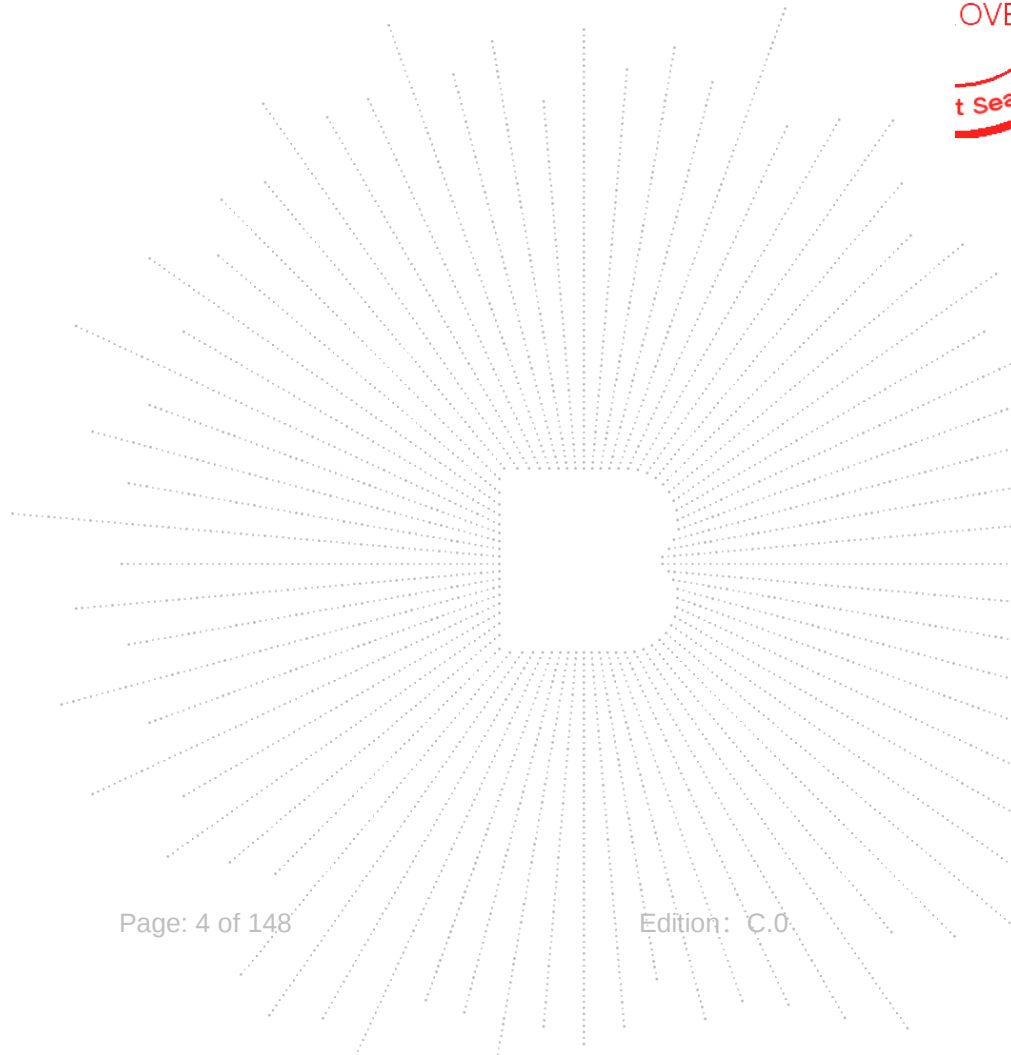
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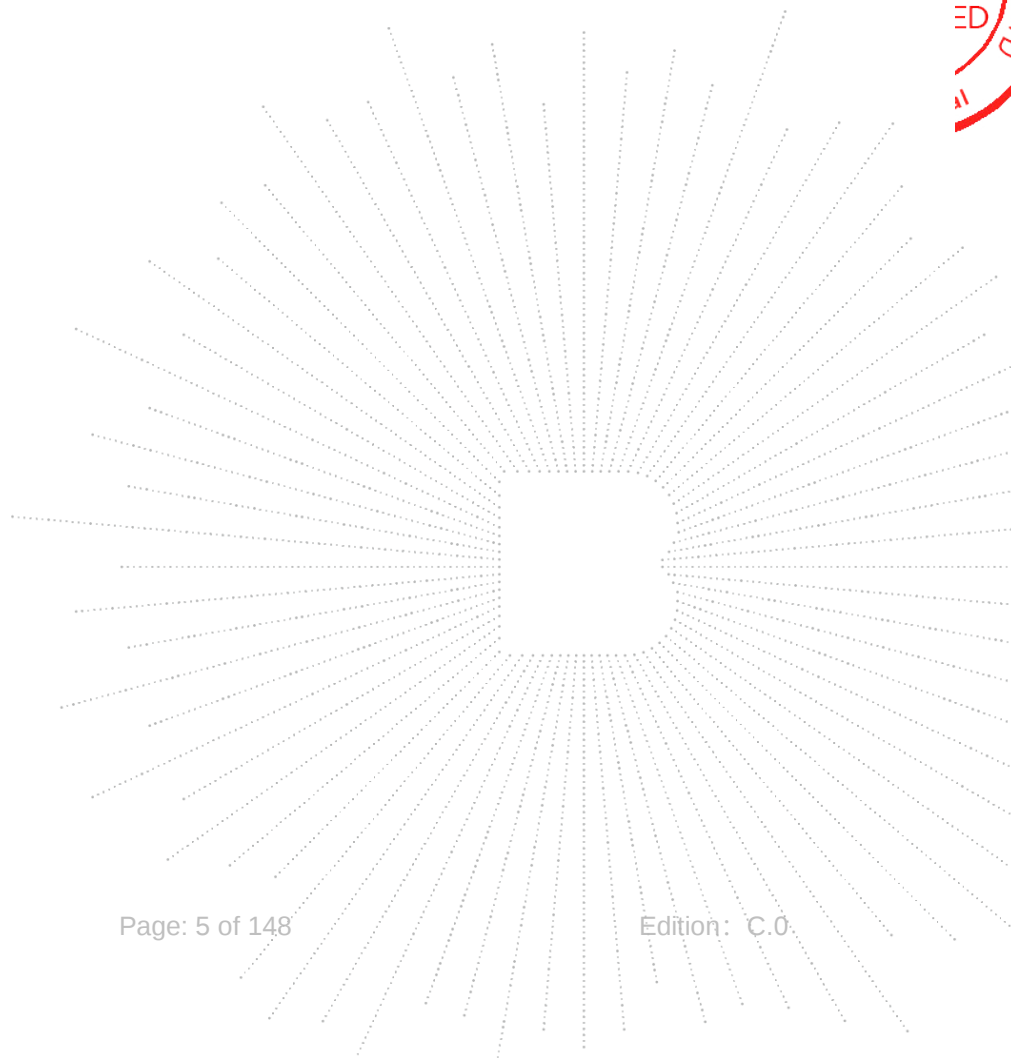
(Note: N/A Means Not Applicable)

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1. Version

Report No.	Issue Date	Description	Approved
BCTC2507804210-4E	2025-07-28	Original	Valid



2. Test Summary

The Product has been tested according to the following specifications:

1	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

Note: The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure.

CO., LTD.

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	Power Spectral Density	U=1.19dB
8	Conducted output power uncertainty Above 1G	U=1.576dB
9	Conducted output power uncertainty below 1G	U=1.28dB
10	Conducted spurious emissions	U=0.55dB
11	Occupied Bandwidth/Frequency Range	U=3.46%
12	humidity uncertainty	U=5.3%
13	Temperature uncertainty	U=0.59°C
14	Frequency Error	U=53.50Hz
15	Frequency Drift	U=0.64kHz

4. Product Information And Test Setup

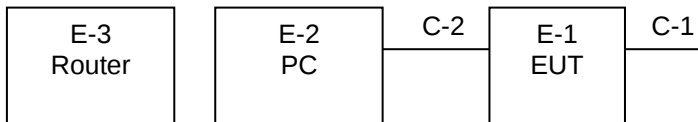
4.1 Product Information

Model/Type reference:	DE043NLW
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)
Operation Frequency:	5180-5240MHz for 802.11a/n(HT20)/ac/ax20; 5190-5230MHz for 802.11n(HT40)/ac/ax40; 5745-5825 MHz for 802.11a/n(HT20)/ac/ax20; 5755-5795 MHz for 802.11a/n(HT40)/ac/ax40;
Data Rate:	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40): MCS0-MCS15; 802.11ac(VHT20): MCS0-MCS8 802.11ac(VHT40): MCS0-MCS9 802.11ax (HE 20/HE 40): MCS0-MCS11
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac OFDMA with BPSK / BPSK_DCM /QPSK /QPSK_DCM /QAM16 /QAM16_DCM /QAM64 /QAM256 /QAM1024 for 802.11ax
Number Of Channel:	4 channels for 802.11a/n/ac20/ax20 in the 5180-5240MHz band ; 2 channels for 802.11 n/ac40/ax40 in the 5190-5230MHz band ; 5 channels for 802.11a/n/ac20/ax20 in the 5745-5825MHz band ; 2 channels for 802.11 n/ac40/ax40 in the 5755-5795MHz band ;
Antenna installation:	External antenna
Antenna Gain:	5.1G WiFi: 2.03 dBi 5.8G WiFi: 5.05 dBi
Remark:	☒ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☐ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Ratings:	AC 120V, 50/60Hz

4.2 Test Setup Configuration

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

Conducted Emission and Radiated Spurious Emission:



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	43-Inch Non-Touch Digital Signage Cash Wrap	N/A	DE043NLW	---	EUT
E-2	PC	ACER	N22Q22	---	auxiliary
E-3	Router	XiaoMi	R4A	---	auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	1.5m	AC cable unshielded
C-2	N/A	N/A	1.0m	HDMI cable unshielded

Notes:

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

4.4 Channel List

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

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

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

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

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

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

4.5 Test Mode

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

Pretest Mode	Description
Mode 1	802.11a / n/ ac/ax 20 CH36/ CH40/ CH 48 802.11a /n/ ac/ax 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac/ax40 CH38/ CH 46 802.11n/ ac/ax40 CH 151 / CH 159
Mode 3	Link Mode

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

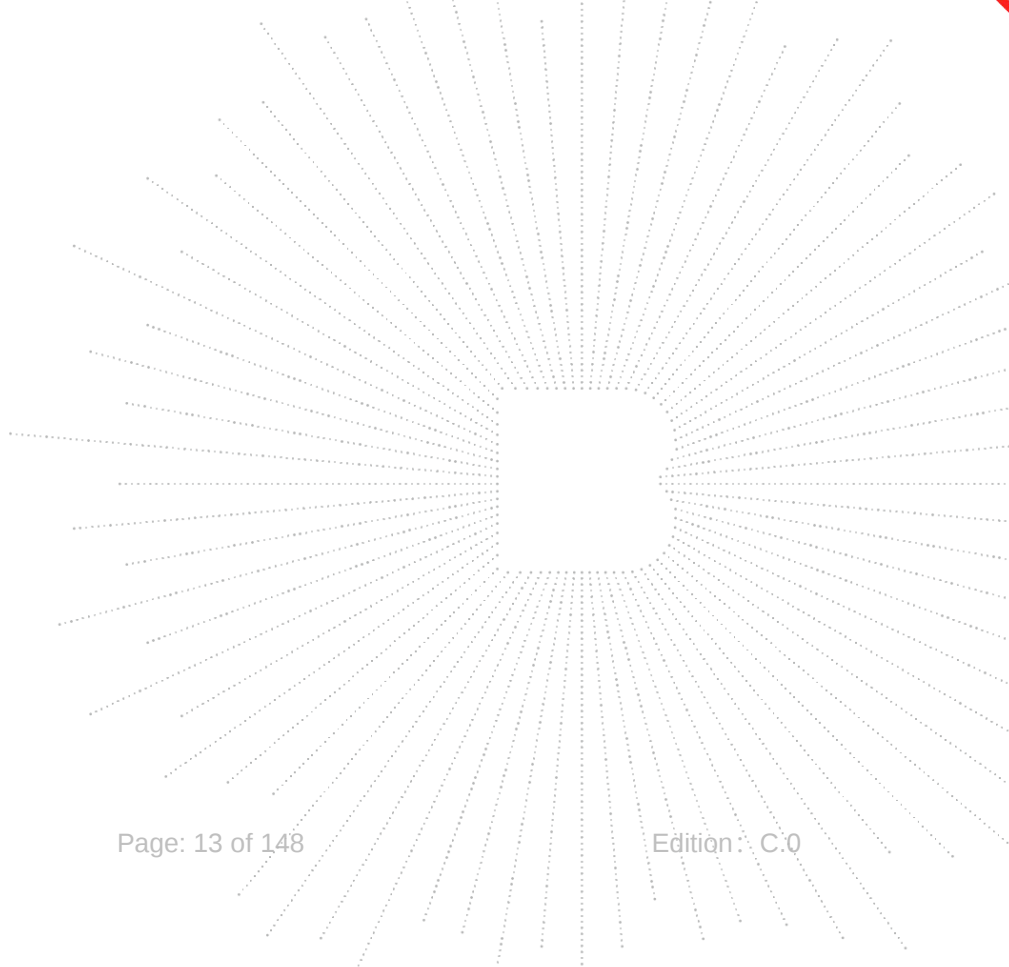
5.2 Test Instrument Used

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

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

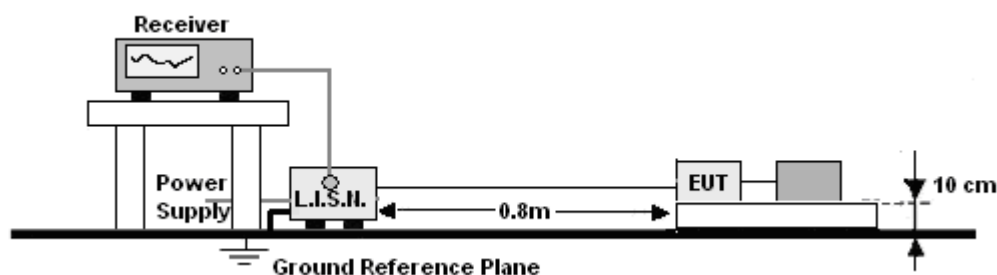
Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 08, 2025	May 07, 2026
Receiver	R&S	ESRP	101154	May 14, 2025	May 13, 2026
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 14, 2025	May 13, 2026
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 24, 2025	May 23, 2026
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 24, 2025	May 23, 2026
Amplifier	SKET	LAPA_01G1 8G-45dB	SK2021040901	May 14, 2025	May 13, 2026
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 24, 2025	May 23, 2026
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 24, 2025	May 23, 2026
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 24, 2025	May 23, 2026
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 14, 2025	May 13, 2026
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

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

6.3 Test procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

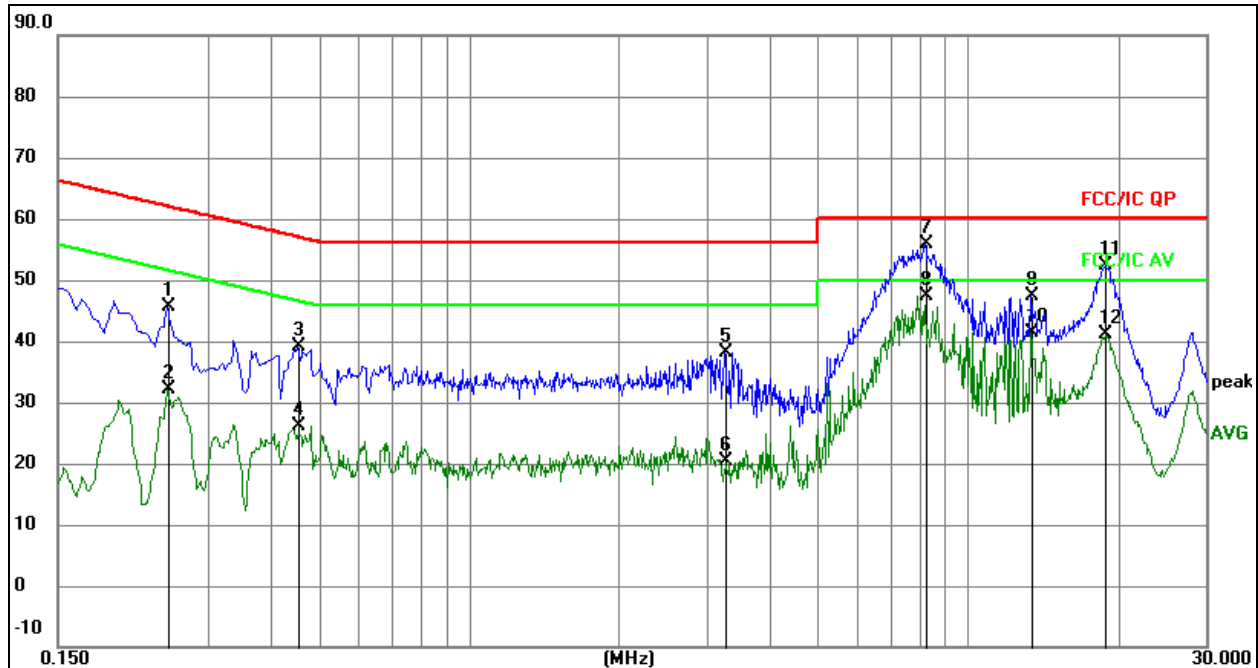
6.4 EUT operating Conditions

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

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

6.5 Test Result

Temperature:	24.1 °C	Relative Humidity:	66%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 3	Polarization :	L

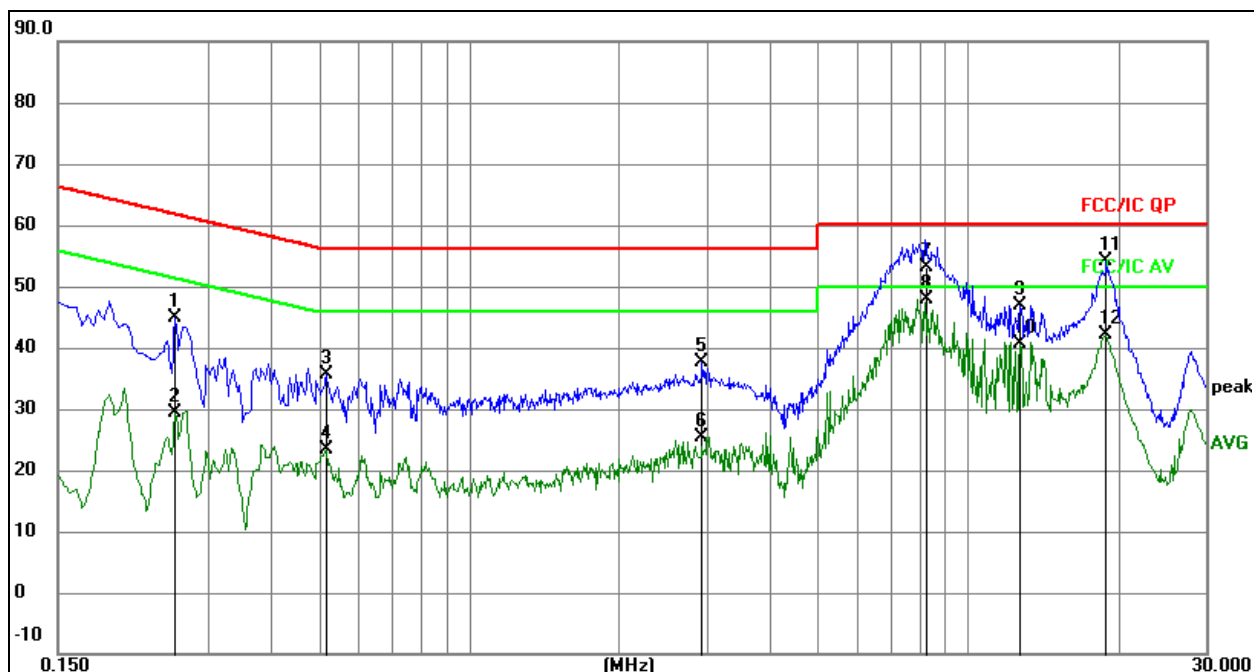


Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.2490	25.50	20.04	45.54	61.79	-16.25	QP
2		0.2490	12.05	20.04	32.09	51.79	-19.70	AVG
3		0.4560	19.17	20.06	39.23	56.77	-17.54	QP
4		0.4560	6.09	20.06	26.15	46.77	-20.62	AVG
5		3.2685	17.67	20.45	38.12	56.00	-17.88	QP
6		3.2685	0.03	20.45	20.48	46.00	-25.52	AVG
7		8.2275	34.66	21.10	55.76	60.00	-4.24	QP
8	*	8.2275	26.40	21.10	47.50	50.00	-2.50	AVG
9		13.3575	25.34	22.11	47.45	60.00	-12.55	QP
10		13.3575	19.28	22.11	41.39	50.00	-8.61	AVG
11		18.8295	29.09	23.33	52.42	60.00	-7.58	QP
12		18.8295	17.78	23.33	41.11	50.00	-8.89	AVG

Temperature:	24.1 °C	Relative Humidity:	66%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 3	Polarization:	N


Remark:

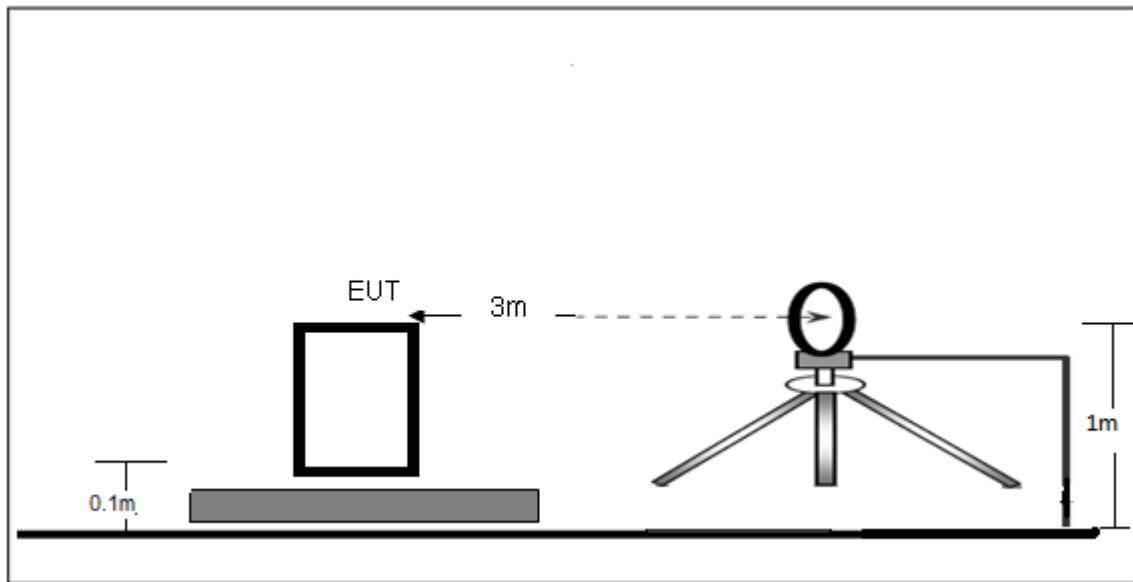
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2575	24.73	20.04	44.77	61.51	-16.74	QP
2		0.2575	9.45	20.04	29.49	51.51	-22.02	AVG
3		0.5181	15.44	20.08	35.52	56.00	-20.48	QP
4		0.5181	3.38	20.08	23.46	46.00	-22.54	AVG
5		2.9305	17.28	20.38	37.66	56.00	-18.34	QP
6		2.9305	4.96	20.38	25.34	46.00	-20.66	AVG
7		8.2260	31.98	21.10	53.08	60.00	-6.92	QP
8	*	8.2260	26.82	21.10	47.92	50.00	-2.08	AVG
9		12.7161	24.87	21.96	46.83	60.00	-13.17	QP
10		12.7161	18.70	21.96	40.66	50.00	-9.34	AVG
11		18.9204	30.89	23.35	54.24	60.00	-5.76	QP
12		18.9204	18.74	23.35	42.09	50.00	-7.91	AVG

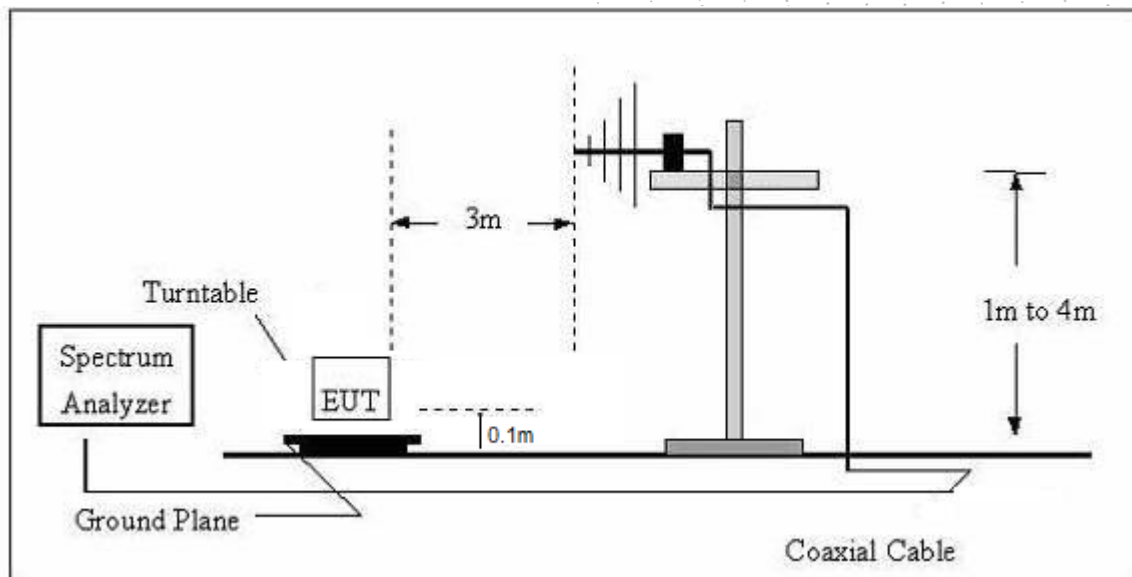
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

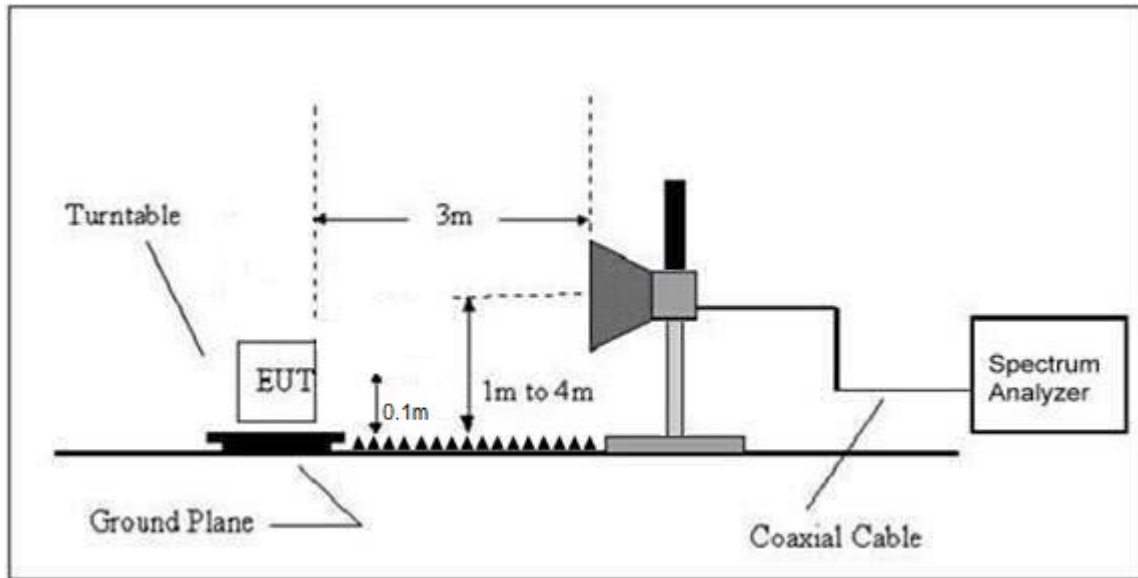
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



7.2 Limit

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

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

Limits Of Radiated Emission Measurement (Above 1000MHz)

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

Notes:

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

7.3 Test procedure

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

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205.

It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

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

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

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

Note:

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

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

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

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

7.4 EUT operating Conditions

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

7.5 Test Result

Below 30MHz

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

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

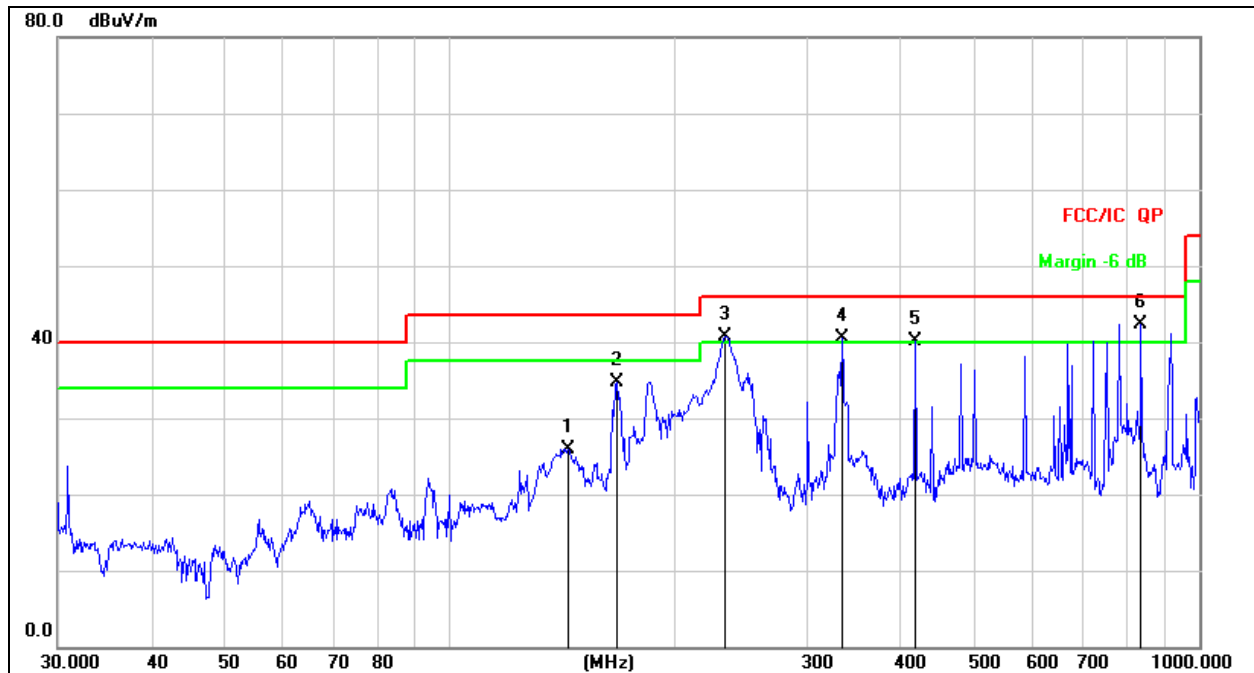
Note:

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

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

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

Temperature:	25.1 °C	Relative Humidity:	56%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 3	Polarization :	Horizontal

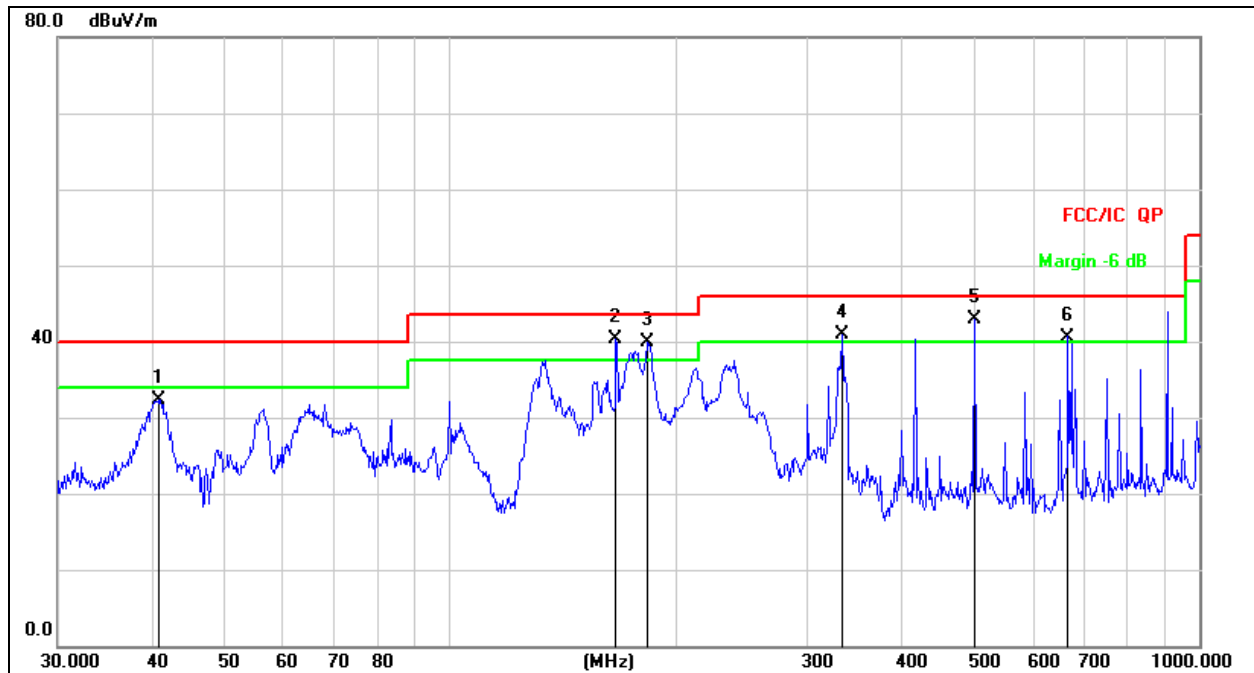


Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		143.8292	43.17	-17.25	25.92	43.50	-17.58	QP
2		167.2366	51.20	-16.50	34.70	43.50	-8.80	QP
3	!	232.5318	54.40	-13.62	40.78	46.00	-5.22	QP
4	!	333.6865	51.57	-11.12	40.45	46.00	-5.55	QP
5	!	417.6409	49.11	-9.05	40.06	46.00	-5.94	QP
6	*	836.2441	44.51	-2.13	42.38	46.00	-3.62	QP

Temperature:	25.1 °C	Relative Humidity:	56%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 3	Polarization:	Vertical



Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		40.8446	46.27	-13.95	32.32	40.00	-7.68	QP
2	!	166.6514	56.85	-16.53	40.32	43.50	-3.18	QP
3	!	183.8440	55.28	-15.43	39.85	43.50	-3.65	QP
4	!	333.6867	52.03	-11.12	40.91	46.00	-5.09	QP
5	*	501.1790	50.35	-7.38	42.97	46.00	-3.03	QP
6	!	668.1423	45.66	-5.06	40.60	46.00	-5.40	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

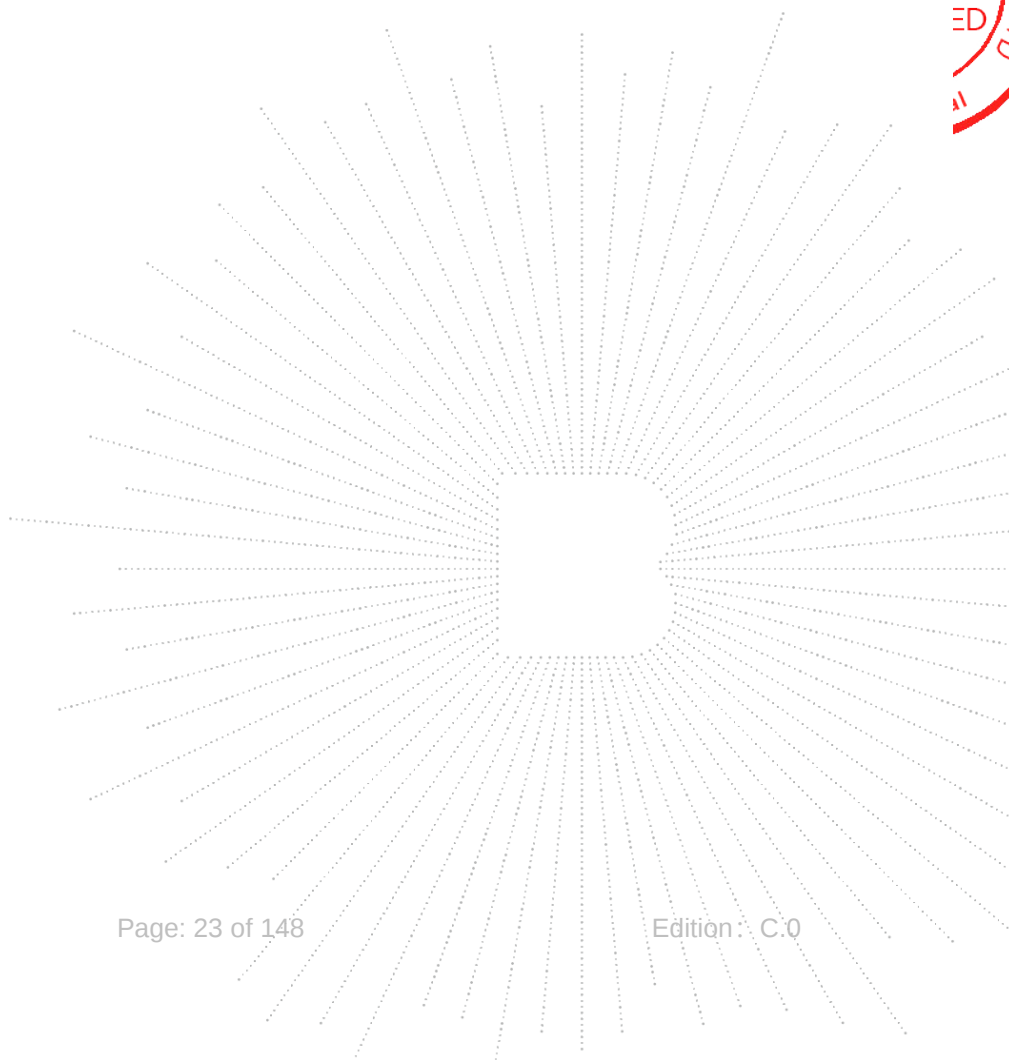
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5149.17	H	63.16	74	46.33	54
5149.03	V	56.19	74	41.22	54

Test mode: 802.11a Frequency(MHz): 5240

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5300.30	H	45.48	74	35.41	54
5300.10	V	40.88	74	28.64	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

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Test Mode:	TX(5.1G) - 802.11a
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
V	4434.178	73.40	-20.73	52.66	68.20	-15.54	PK
V	4434.178	59.56	-20.73	38.82	54.00	-15.18	AV
V	10360.195	62.17	-9.36	52.81	68.20	-15.39	PK
V	10360.195	49.71	-9.36	40.35	54.00	-13.65	AV
V	15540.060	62.25	-7.84	54.41	74.00	-19.59	PK
V	15540.060	49.19	-7.84	41.35	54.00	-12.65	AV
H	4434.157	74.35	-20.73	53.62	68.20	-14.58	PK
H	4434.157	59.25	-20.73	38.52	54.00	-15.48	AV
H	10360.067	62.16	-9.36	52.80	68.20	-15.40	PK
H	10360.067	49.52	-9.36	40.16	54.00	-13.84	AV
H	15540.139	61.87	-7.84	54.03	74.00	-19.97	PK
H	15540.139	49.63	-7.84	41.79	54.00	-12.21	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.081	70.77	-20.42	50.35	74.00	-23.65	PK
V	4592.081	59.56	-20.42	39.15	54.00	-14.85	AV
V	10400.125	62.18	-9.30	52.88	68.20	-15.32	PK
V	10400.125	49.49	-9.30	40.19	54.00	-13.81	AV
V	15600.025	63.68	-7.82	55.86	74.00	-18.14	PK
V	15600.025	49.88	-7.82	42.06	54.00	-11.94	AV
H	4592.182	72.51	-20.42	52.09	74.00	-21.91	PK
H	4592.182	59.42	-20.42	39.00	54.00	-15.00	AV
H	10400.132	62.52	-9.30	53.22	68.20	-14.98	PK
H	10400.132	49.72	-9.30	40.42	54.00	-13.58	AV
H	15600.012	60.10	-7.82	52.28	74.00	-21.72	PK
H	15600.012	49.12	-7.82	41.30	54.00	-12.70	AV
High Channel (5240 MHz)-Above 1G							
V	4739.003	70.33	-20.12	50.20	74.00	-23.80	PK
V	4739.003	59.60	-20.12	39.48	54.00	-14.52	AV
V	10480.177	60.50	-9.18	51.32	68.20	-16.88	PK
V	10480.177	49.95	-9.18	40.77	54.00	-13.23	AV
V	15720.156	64.64	-7.78	56.86	74.00	-17.14	PK
V	15720.156	49.07	-7.78	41.29	54.00	-12.71	AV
H	4739.041	73.41	-20.12	53.29	74.00	-20.71	PK
H	4739.041	59.14	-20.12	39.02	54.00	-14.98	AV
H	10480.132	63.70	-9.18	54.52	68.20	-13.68	PK
H	10480.132	49.91	-9.18	40.73	54.00	-13.27	AV
H	15720.133	60.54	-7.78	52.76	74.00	-21.24	PK
H	15720.133	49.15	-7.78	41.37	54.00	-12.63	AV

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

Test Mode:	TX(5.1G) - 802.11n-HT20
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
V	4434.094	74.19	-20.73	53.46	68.20	-14.74	PK
V	4434.094	59.17	-20.73	38.43	54.00	-15.57	AV
V	10360.020	61.00	-9.36	51.64	68.20	-16.56	PK
V	10360.020	49.70	-9.36	40.34	54.00	-13.66	AV
V	15540.087	61.02	-7.84	53.18	74.00	-20.82	PK
V	15540.087	49.99	-7.84	42.15	54.00	-11.85	AV
H	4434.082	72.30	-20.73	51.57	68.20	-16.63	PK
H	4434.082	59.58	-20.73	38.85	54.00	-15.15	AV
H	10360.143	60.15	-9.36	50.79	68.20	-17.41	PK
H	10360.143	49.17	-9.36	39.81	54.00	-14.19	AV
H	15540.011	64.54	-7.84	56.70	74.00	-17.30	PK
H	15540.011	49.69	-7.84	41.85	54.00	-12.15	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.085	70.91	-20.42	50.50	74.00	-23.50	PK
V	4592.085	59.79	-20.42	39.37	54.00	-14.63	AV
V	10400.133	61.35	-9.30	52.05	68.20	-16.15	PK
V	10400.133	49.91	-9.30	40.61	54.00	-13.39	AV
V	15600.003	62.63	-7.82	54.81	74.00	-19.19	PK
V	15600.003	49.52	-7.82	41.70	54.00	-12.30	AV
H	4592.033	74.87	-20.42	54.45	74.00	-19.55	PK
H	4592.033	59.97	-20.42	39.55	54.00	-14.45	AV
H	10400.119	60.42	-9.30	51.12	68.20	-17.08	PK
H	10400.119	49.66	-9.30	40.36	54.00	-13.64	AV
H	15600.063	60.05	-7.82	52.23	74.00	-21.77	PK
H	15600.063	49.95	-7.82	42.13	54.00	-11.87	AV
High Channel (5240 MHz)-Above 1G							
V	4739.041	70.98	-20.12	50.86	74.00	-23.14	PK
V	4739.041	59.36	-20.12	39.23	54.00	-14.77	AV
V	10480.043	61.45	-9.18	52.27	68.20	-15.93	PK
V	10480.043	49.26	-9.18	40.08	54.00	-13.92	AV
V	15720.132	61.40	-7.78	53.62	74.00	-20.38	PK
V	15720.132	50.00	-7.78	42.22	54.00	-11.78	AV
H	4739.074	72.02	-20.12	51.90	74.00	-22.10	PK
H	4739.074	59.17	-20.12	39.05	54.00	-14.95	AV
H	10480.127	64.75	-9.18	55.57	68.20	-12.63	PK
H	10480.127	49.46	-9.18	40.28	54.00	-13.72	AV
H	15720.140	61.58	-7.78	53.80	74.00	-20.20	PK
H	15720.140	49.97	-7.78	42.19	54.00	-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) - 802.11n-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
V	4434.077	70.09	-20.73	49.36	68.20	-18.84	PK
V	4434.077	59.72	-20.73	38.99	54.00	-15.01	AV
V	10380.124	60.82	-9.33	51.49	68.20	-16.71	PK
V	10380.124	49.19	-9.33	39.86	54.00	-14.14	AV
V	15570.104	62.73	-7.83	54.90	74.00	-19.10	PK
V	15570.104	49.18	-7.83	41.35	54.00	-12.65	AV
H	4434.172	74.52	-20.73	53.78	74.00	-20.22	PK
H	4434.172	59.53	-20.73	38.80	54.00	-15.20	AV
H	10380.085	63.93	-9.33	54.60	68.20	-13.60	PK
H	10380.085	49.51	-9.33	40.18	54.00	-13.82	AV
H	15570.130	62.95	-7.83	55.12	74.00	-18.88	PK
H	15570.130	49.88	-7.83	42.05	54.00	-11.95	AV
High Channel (5230 MHz)-Above 1G							
V	4739.197	74.21	-20.12	54.09	68.20	-14.11	PK
V	4739.197	59.90	-20.12	39.78	54.00	-14.22	AV
V	10460.153	61.18	-9.21	51.97	68.20	-16.23	PK
V	10460.153	49.27	-9.21	40.06	54.00	-13.94	AV
V	15690.002	62.93	-7.79	55.14	74.00	-18.86	PK
V	15690.002	49.41	-7.79	41.62	54.00	-12.38	AV
H	4739.036	73.60	-20.12	53.48	68.20	-14.72	PK
H	4739.036	59.76	-20.12	39.64	54.00	-14.36	AV
H	10460.148	64.52	-9.21	55.31	68.20	-12.89	PK
H	10460.148	49.89	-9.21	40.68	54.00	-13.32	AV
H	15690.106	62.28	-7.79	54.49	74.00	-19.51	PK
H	15690.106	49.54	-7.79	41.75	54.00	-12.25	AV

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

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

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

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

Test Mode:	TX(5.1G) - 802.11ac-HT20
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
V	4434.122	72.69	-20.73	51.95	68.20	-16.25	PK
V	4434.122	59.17	-20.73	38.44	54.00	-15.56	AV
V	10360.118	61.20	-9.36	51.84	68.20	-16.36	PK
V	10360.118	49.99	-9.36	40.63	54.00	-13.37	AV
V	15540.011	64.47	-7.84	56.63	74.00	-17.37	PK
V	15540.011	49.88	-7.84	42.04	54.00	-11.96	AV
H	4434.044	70.41	-20.73	49.68	68.20	-18.52	PK
H	4434.044	59.10	-20.73	38.37	54.00	-15.63	AV
H	10360.106	62.37	-9.36	53.01	68.20	-15.19	PK
H	10360.106	49.26	-9.36	39.90	54.00	-14.10	AV
H	15540.191	63.75	-7.84	55.91	74.00	-18.09	PK
H	15540.191	49.32	-7.84	41.48	54.00	-12.52	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.169	70.02	-20.42	49.60	74.00	-24.40	PK
V	4592.169	59.59	-20.42	39.17	54.00	-14.83	AV
V	10400.095	61.53	-9.30	52.23	68.20	-15.97	PK
V	10400.095	49.74	-9.30	40.44	54.00	-13.56	AV
V	15600.197	64.66	-7.82	56.84	74.00	-17.16	PK
V	15600.197	49.55	-7.82	41.73	54.00	-12.27	AV
H	4592.023	72.33	-20.42	51.91	74.00	-22.09	PK
H	4592.023	59.35	-20.42	38.94	54.00	-15.06	AV
H	10400.088	60.25	-9.30	50.95	68.20	-17.25	PK
H	10400.088	49.86	-9.30	40.56	54.00	-13.44	AV
H	15600.074	63.24	-7.82	55.42	74.00	-18.58	PK
H	15600.074	49.98	-7.82	42.16	54.00	-11.84	AV
High Channel (5240 MHz)-Above 1G							
V	4739.187	70.16	-20.12	50.04	74.00	-23.96	PK
V	4739.187	59.53	-20.12	39.41	54.00	-14.59	AV
V	10480.157	60.11	-9.18	50.93	68.20	-17.27	PK
V	10480.157	49.38	-9.18	40.20	54.00	-13.80	AV
V	15720.071	63.17	-7.78	55.39	74.00	-18.61	PK
V	15720.071	49.66	-7.78	41.88	54.00	-12.12	AV
H	4739.076	71.91	-20.12	51.79	74.00	-22.21	PK
H	4739.076	59.49	-20.12	39.37	54.00	-14.63	AV
H	10480.001	62.45	-9.18	53.27	68.20	-14.93	PK
H	10480.001	49.78	-9.18	40.60	54.00	-13.40	AV
H	15720.166	61.27	-7.78	53.49	74.00	-20.51	PK
H	15720.166	49.61	-7.78	41.83	54.00	-12.17	AV

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

Test Mode:	TX(5.1G) - 802.11ac-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
V	4434.152	73.07	-20.73	52.33	68.20	-15.87	PK
V	4434.152	59.18	-20.73	38.44	54.00	-15.56	AV
V	10380.055	61.46	-9.33	52.13	68.20	-16.07	PK
V	10380.055	49.16	-9.33	39.83	54.00	-14.17	AV
V	15570.089	63.39	-7.83	55.56	74.00	-18.44	PK
V	15570.089	49.06	-7.83	41.23	54.00	-12.77	AV
H	4434.186	71.62	-20.73	50.89	74.00	-23.11	PK
H	4434.186	59.77	-20.73	39.04	54.00	-14.96	AV
H	10380.035	63.94	-9.33	54.61	68.20	-13.59	PK
H	10380.035	49.44	-9.33	40.11	54.00	-13.89	AV
H	15570.049	61.53	-7.83	53.70	74.00	-20.30	PK
H	15570.049	49.70	-7.83	41.87	54.00	-12.13	AV
High Channel (5230 MHz)-Above 1G							
V	4739.035	70.44	-20.12	50.32	68.20	-17.88	PK
V	4739.035	59.45	-20.12	39.33	54.00	-14.67	AV
V	10460.023	60.66	-9.21	51.45	68.20	-16.75	PK
V	10460.023	49.08	-9.21	39.87	54.00	-14.13	AV
V	15690.034	60.36	-7.79	52.57	74.00	-21.43	PK
V	15690.034	49.66	-7.79	41.87	54.00	-12.13	AV
H	4739.097	70.08	-20.12	49.96	68.20	-18.24	PK
H	4739.097	59.13	-20.12	39.01	54.00	-14.99	AV
H	10460.182	64.59	-9.21	55.38	68.20	-12.82	PK
H	10460.182	49.37	-9.21	40.16	54.00	-13.84	AV
H	15690.089	60.01	-7.79	52.22	74.00	-21.78	PK
H	15690.089	49.70	-7.79	41.91	54.00	-12.09	AV

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

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

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

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

Test Mode:	TX(5.1G) - 802.11ax-HT20
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
V	4434.114	72.47	-20.73	51.74	68.20	-16.46	PK
V	4434.114	59.96	-20.73	39.23	54.00	-14.77	AV
V	10360.028	62.63	-9.36	53.27	68.20	-14.93	PK
V	10360.028	49.85	-9.36	40.49	54.00	-13.51	AV
V	15540.140	61.75	-7.84	53.91	74.00	-20.09	PK
V	15540.140	49.40	-7.84	41.56	54.00	-12.44	AV
H	4434.108	72.70	-20.73	51.97	68.20	-16.23	PK
H	4434.108	59.22	-20.73	38.49	54.00	-15.51	AV
H	10360.055	61.41	-9.36	52.05	68.20	-16.15	PK
H	10360.055	49.97	-9.36	40.61	54.00	-13.39	AV
H	15540.030	64.31	-7.84	56.47	74.00	-17.53	PK
H	15540.030	49.98	-7.84	42.14	54.00	-11.86	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.126	71.34	-20.42	50.93	74.00	-23.07	PK
V	4592.126	59.13	-20.42	38.71	54.00	-15.29	AV
V	10400.133	62.97	-9.30	53.67	68.20	-14.53	PK
V	10400.133	49.43	-9.30	40.13	54.00	-13.87	AV
V	15600.198	61.32	-7.82	53.50	74.00	-20.50	PK
V	15600.198	49.44	-7.82	41.62	54.00	-12.38	AV
H	4592.179	74.37	-20.42	53.95	74.00	-20.05	PK
H	4592.179	59.42	-20.42	39.01	54.00	-14.99	AV
H	10400.006	64.34	-9.30	55.04	68.20	-13.16	PK
H	10400.006	49.93	-9.30	40.63	54.00	-13.37	AV
H	15600.076	60.49	-7.82	52.67	74.00	-21.33	PK
H	15600.076	49.13	-7.82	41.31	54.00	-12.69	AV
High Channel (5240 MHz)-Above 1G							
V	4739.065	72.38	-20.12	52.25	74.00	-21.75	PK
V	4739.065	59.20	-20.12	39.08	54.00	-14.92	AV
V	10480.011	63.26	-9.18	54.08	68.20	-14.12	PK
V	10480.011	49.36	-9.18	40.18	54.00	-13.82	AV
V	15720.173	62.99	-7.78	55.21	74.00	-18.79	PK
V	15720.173	49.86	-7.78	42.08	54.00	-11.92	AV
H	4739.126	74.47	-20.12	54.35	74.00	-19.65	PK
H	4739.126	59.72	-20.12	39.60	54.00	-14.40	AV
H	10480.027	61.29	-9.18	52.11	68.20	-16.09	PK
H	10480.027	49.39	-9.18	40.21	54.00	-13.79	AV
H	15720.064	64.38	-7.78	56.60	74.00	-17.40	PK
H	15720.064	49.07	-7.78	41.29	54.00	-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) - 802.11ax-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
V	4434.198	71.88	-20.73	51.15	68.20	-17.05	PK
V	4434.198	59.19	-20.73	38.46	54.00	-15.54	AV
V	10380.172	63.00	-9.33	53.67	68.20	-14.53	PK
V	10380.172	49.92	-9.33	40.59	54.00	-13.41	AV
V	15570.071	60.12	-7.83	52.29	74.00	-21.71	PK
V	15570.071	49.99	-7.83	42.16	54.00	-11.84	AV
H	4434.016	74.62	-20.73	53.89	74.00	-20.11	PK
H	4434.016	59.42	-20.73	38.69	54.00	-15.31	AV
H	10380.076	64.53	-9.33	55.20	68.20	-13.00	PK
H	10380.076	49.74	-9.33	40.41	54.00	-13.59	AV
H	15570.024	62.25	-7.83	54.42	74.00	-19.58	PK
H	15570.024	49.76	-7.83	41.93	54.00	-12.07	AV
High Channel (5230 MHz)-Above 1G							
V	4739.190	70.33	-20.12	50.21	68.20	-17.99	PK
V	4739.190	59.88	-20.12	39.76	54.00	-14.24	AV
V	10460.045	61.17	-9.21	51.96	68.20	-16.24	PK
V	10460.045	49.43	-9.21	40.22	54.00	-13.78	AV
V	15690.021	64.47	-7.79	56.68	74.00	-17.32	PK
V	15690.021	49.27	-7.79	41.48	54.00	-12.52	AV
H	4739.058	74.09	-20.12	53.97	68.20	-14.23	PK
H	4739.058	59.49	-20.12	39.37	54.00	-14.63	AV
H	10460.084	64.24	-9.21	55.03	68.20	-13.17	PK
H	10460.084	49.74	-9.21	40.53	54.00	-13.47	AV
H	15690.045	63.89	-7.79	56.10	74.00	-17.90	PK
H	15690.045	49.75	-7.79	41.96	54.00	-12.04	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 (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
V	4679.084	72.12	-20.24	51.88	74.00	-22.12	PK
V	4679.084	59.86	-20.24	39.62	54.00	-14.38	AV
V	11490.019	61.43	-8.79	52.64	68.20	-15.56	PK
V	11490.019	49.46	-8.79	40.67	54.00	-13.33	AV
V	17235.077	59.78	-3.18	56.60	68.20	-11.60	PK
V	17235.077	44.57	-3.18	41.39	54.00	-12.61	AV
H	4679.121	70.05	-20.73	49.32	74.00	-24.68	PK
H	4679.121	59.68	-20.73	38.95	54.00	-15.05	AV
H	11490.028	62.99	-8.79	54.20	68.20	-14.00	PK
H	11490.028	49.03	-8.79	40.24	54.00	-13.76	AV
H	17235.101	58.20	-3.18	55.02	68.20	-13.18	PK
H	17235.101	44.84	-3.18	41.66	54.00	-12.34	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.008	71.48	-20.42	51.06	74.00	-22.94	PK
V	4592.008	59.83	-20.42	39.41	54.00	-14.59	AV
V	11570.112	64.21	-8.86	55.35	68.20	-12.85	PK
V	11570.112	49.76	-8.86	40.90	54.00	-13.10	AV
V	17355.152	57.51	-2.52	54.99	68.20	-13.21	PK
V	17355.152	44.22	-2.52	41.70	54.00	-12.30	AV
H	4592.023	73.82	-20.42	53.40	74.00	-20.60	PK
H	4592.023	59.41	-20.42	38.99	54.00	-15.01	AV
H	11570.179	64.89	-8.86	56.03	68.20	-12.17	PK
H	11570.179	49.35	-8.86	40.49	54.00	-13.51	AV
H	17355.143	56.93	-2.52	54.41	68.20	-13.79	PK
H	17355.143	44.30	-2.52	41.78	54.00	-12.22	AV
High Channel (5825 MHz)-Above 1G							
V	6039.060	72.23	-18.93	53.30	68.20	-14.90	PK
V	6039.060	59.31	-18.93	40.38	54.00	-13.62	AV
V	11650.091	61.95	-8.92	53.03	74.00	-20.97	PK
V	11650.091	49.69	-8.92	40.77	54.00	-13.23	AV
V	17475.118	58.53	-1.86	56.67	68.20	-11.53	PK
V	17475.118	44.89	-1.86	43.03	54.00	-10.97	AV
H	6039.137	72.10	-18.93	53.17	68.20	-15.03	PK
H	6039.137	59.72	-18.93	40.79	54.00	-13.21	AV
H	11650.012	61.82	-8.92	52.90	74.00	-21.10	PK
H	11650.012	49.88	-8.92	40.96	54.00	-13.04	AV
H	17475.021	56.91	-1.86	55.05	68.20	-13.15	PK
H	17475.021	44.13	-1.86	42.27	54.00	-11.73	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 (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G							
V	4679.164	71.08	-20.24	50.84	74.00	-23.16	PK
V	4679.164	59.18	-20.24	38.94	54.00	-15.06	AV
V	11490.107	64.25	-8.79	55.46	68.20	-12.74	PK
V	11490.107	49.07	-8.79	40.28	54.00	-13.72	AV
V	17235.154	59.98	-3.18	56.80	68.20	-11.40	PK
V	17235.154	44.46	-3.18	41.28	54.00	-12.72	AV
H	4679.179	74.68	-20.24	54.44	74.00	-19.56	PK
H	4679.179	59.06	-20.24	38.81	54.00	-15.19	AV
H	11490.142	63.53	-8.79	54.74	68.20	-13.46	PK
H	11490.142	49.17	-8.79	40.38	54.00	-13.62	AV
H	17235.042	58.47	-3.18	55.29	68.20	-12.91	PK
H	17235.042	44.87	-3.18	41.69	54.00	-12.31	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.104	72.17	-20.42	51.75	74.00	-22.25	PK
V	4592.104	59.50	-20.42	39.09	54.00	-14.91	AV
V	11570.153	60.46	-8.86	51.60	68.20	-16.60	PK
V	11570.153	49.14	-8.86	40.28	54.00	-13.72	AV
V	17355.032	58.19	-2.52	55.67	68.20	-12.53	PK
V	17355.032	44.85	-2.52	42.33	54.00	-11.67	AV
H	4592.171	70.70	-20.42	50.28	74.00	-23.72	PK
H	4592.171	59.05	-20.42	38.63	54.00	-15.37	AV
H	11570.071	62.48	-8.86	53.62	68.20	-14.58	PK
H	11570.071	49.76	-8.86	40.90	54.00	-13.10	AV
H	17355.030	59.92	-2.52	57.40	68.20	-10.80	PK
H	17355.030	44.80	-2.52	42.28	54.00	-11.72	AV
High Channel (5825 MHz)-Above 1G							
V	6039.128	72.84	-18.93	53.91	68.20	-14.29	PK
V	6039.128	59.48	-18.93	40.55	54.00	-13.45	AV
V	11650.167	62.90	-8.92	53.98	74.00	-20.02	PK
V	11650.167	49.00	-8.92	40.08	54.00	-13.92	AV
V	17475.064	59.00	-1.86	57.14	68.20	-11.06	PK
V	17475.064	44.34	-1.86	42.48	54.00	-11.52	AV
H	6039.167	74.14	-18.93	55.21	68.20	-12.99	PK
H	6039.167	59.23	-18.93	40.29	54.00	-13.71	AV
H	11650.089	64.75	-8.92	55.83	74.00	-18.17	PK
H	11650.089	49.41	-8.92	40.49	54.00	-13.51	AV
H	17475.164	58.85	-1.86	56.99	68.20	-11.21	PK
H	17475.164	44.24	-1.86	42.38	54.00	-11.62	AV

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

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

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

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

Test Mode:	TX(5.8G) - 802.11n-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
V	4679.101	74.68	-20.24	54.44	74.00	-19.56	PK
V	4679.101	59.63	-20.24	39.39	54.00	-14.61	AV
V	11510.023	62.23	-8.81	53.42	74.00	-20.58	PK
V	11510.023	49.25	-8.81	40.44	54.00	-13.56	AV
V	17265.143	58.54	-3.01	55.53	68.20	-12.67	PK
V	17265.143	44.80	-3.01	41.79	54.00	-12.21	AV
H	4679.054	70.40	-20.24	50.16	74.00	-23.84	PK
H	4679.054	59.37	-20.24	39.12	54.00	-14.88	AV
H	11510.148	63.79	-8.81	54.98	74.00	-19.02	PK
H	11510.148	49.19	-8.81	40.38	54.00	-13.62	AV
H	17265.151	55.79	-3.01	52.78	68.20	-15.42	PK
H	17265.151	44.31	-3.01	41.30	54.00	-12.70	AV
High Channel (5795 MHz)-Above 1G							
V	6039.015	72.66	-18.93	53.73	68.20	-14.47	PK
V	6039.015	59.19	-18.93	40.26	54.00	-13.74	AV
V	11590.136	62.41	-8.87	53.54	74.00	-20.46	PK
V	11590.136	49.71	-8.87	40.84	54.00	-13.16	AV
V	17385.049	56.49	-2.35	54.14	68.20	-14.06	PK
V	17385.049	44.66	-2.35	42.31	54.00	-11.69	AV
H	6039.034	71.96	-18.93	53.03	68.20	-15.17	PK
H	6039.034	59.07	-18.93	40.13	54.00	-13.87	AV
H	11590.172	64.74	-8.87	55.87	74.00	-18.13	PK
H	11590.172	49.92	-8.87	41.05	54.00	-12.95	AV
H	17385.169	58.17	-2.35	55.82	68.20	-12.38	PK
H	17385.169	44.13	-2.35	41.78	54.00	-12.22	AV

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

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

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

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

Test Mode:	TX(5.8G) - 802.11ac-HT20
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
V	4679.190	70.61	-20.24	50.37	74.00	-23.63	PK
V	4679.190	59.09	-20.24	38.85	54.00	-15.15	AV
V	11490.072	64.92	-8.79	56.13	68.20	-12.07	PK
V	11490.072	49.85	-8.79	41.06	54.00	-12.94	AV
V	17235.172	59.68	-3.18	56.50	68.20	-11.70	PK
V	17235.172	44.40	-3.18	41.22	54.00	-12.78	AV
H	4679.045	72.71	-20.24	52.46	74.00	-21.54	PK
H	4679.045	59.77	-20.24	39.53	54.00	-14.47	AV
H	11490.080	63.87	-8.79	55.08	68.20	-13.12	PK
H	11490.080	49.66	-8.79	40.87	54.00	-13.13	AV
H	17235.154	55.00	-3.18	51.82	68.20	-16.38	PK
H	17235.154	44.55	-3.18	41.37	54.00	-12.63	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.045	74.50	-20.42	54.09	74.00	-19.91	PK
V	4592.045	59.01	-20.42	38.60	54.00	-15.40	AV
V	11570.100	63.47	-8.86	54.61	68.20	-13.59	PK
V	11570.100	49.04	-8.86	40.18	54.00	-13.82	AV
V	17355.069	57.59	-2.52	55.07	68.20	-13.13	PK
V	17355.069	44.15	-2.52	41.63	54.00	-12.37	AV
H	4592.100	71.29	-20.42	50.88	74.00	-23.12	PK
H	4592.100	59.44	-20.42	39.02	54.00	-14.98	AV
H	11570.166	62.20	-8.86	53.34	68.20	-14.86	PK
H	11570.166	49.31	-8.86	40.45	54.00	-13.55	AV
H	17355.070	55.15	-2.52	52.63	68.20	-15.57	PK
H	17355.070	44.43	-2.52	41.91	54.00	-12.09	AV
High Channel (5825 MHz)-Above 1G							
V	6039.025	74.30	-18.93	55.37	68.20	-12.83	PK
V	6039.025	59.75	-18.93	40.82	54.00	-13.18	AV
V	11650.057	64.13	-8.92	55.21	74.00	-18.79	PK
V	11650.057	49.67	-8.92	40.75	54.00	-13.25	AV
V	17475.104	59.01	-1.86	57.15	68.20	-11.05	PK
V	17475.104	44.95	-1.86	43.09	54.00	-10.91	AV
H	6039.056	72.00	-18.93	53.07	68.20	-15.13	PK
H	6039.056	59.69	-18.93	40.76	54.00	-13.24	AV
H	11650.013	62.81	-8.92	53.89	74.00	-20.11	PK
H	11650.013	49.60	-8.92	40.68	54.00	-13.32	AV
H	17475.100	55.37	-1.86	53.51	68.20	-14.69	PK
H	17475.100	44.29	-1.86	42.43	54.00	-11.57	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) - 802.11ac-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
V	4679.082	72.57	-20.24	52.32	74.00	-21.68	PK
V	4679.082	59.06	-20.24	38.82	54.00	-15.18	AV
V	11510.194	64.06	-8.81	55.25	74.00	-18.75	PK
V	11510.194	49.95	-8.81	41.14	54.00	-12.86	AV
V	17265.019	59.84	-3.01	56.83	68.20	-11.37	PK
V	17265.019	44.20	-3.01	41.19	54.00	-12.81	AV
H	4679.041	71.09	-20.24	50.85	74.00	-23.15	PK
H	4679.041	59.71	-20.24	39.47	54.00	-14.53	AV
H	11510.159	61.20	-8.81	52.39	74.00	-21.61	PK
H	11510.159	49.25	-8.81	40.44	54.00	-13.56	AV
H	17265.184	57.24	-3.01	54.23	68.20	-13.97	PK
H	17265.184	44.59	-3.01	41.58	54.00	-12.42	AV
High Channel (5795 MHz)-Above 1G							
V	6039.146	74.19	-18.93	55.26	68.20	-12.94	PK
V	6039.146	59.30	-18.93	40.36	54.00	-13.64	AV
V	11590.041	62.54	-8.87	53.67	74.00	-20.33	PK
V	11590.041	49.10	-8.87	40.23	54.00	-13.77	AV
V	17385.156	57.66	-2.35	55.31	68.20	-12.89	PK
V	17385.156	44.53	-2.35	42.18	54.00	-11.82	AV
H	6039.083	73.11	-18.93	54.18	68.20	-14.02	PK
H	6039.083	59.08	-18.93	40.15	54.00	-13.85	AV
H	11590.052	60.43	-8.87	51.56	74.00	-22.44	PK
H	11590.052	49.38	-8.87	40.51	54.00	-13.49	AV
H	17385.126	55.89	-2.35	53.54	68.20	-14.66	PK
H	17385.126	44.94	-2.35	42.59	54.00	-11.41	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
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
V	4679.062	73.21	-20.24	52.97	74.00	-21.03	PK
V	4679.062	59.34	-20.24	39.10	54.00	-14.90	AV
V	11490.038	60.64	-8.79	51.85	68.20	-16.35	PK
V	11490.038	49.36	-8.79	40.57	54.00	-13.43	AV
V	17235.041	59.52	-3.18	56.34	68.20	-11.86	PK
V	17235.041	44.55	-3.18	41.37	54.00	-12.63	AV
H	4679.142	74.75	-20.24	54.51	74.00	-19.49	PK
H	4679.142	59.62	-20.24	39.38	54.00	-14.62	AV
H	11490.003	61.58	-8.79	52.79	68.20	-15.41	PK
H	11490.003	49.94	-8.79	41.15	54.00	-12.85	AV
H	17235.064	58.75	-3.18	55.57	68.20	-12.63	PK
H	17235.064	44.67	-3.18	41.49	54.00	-12.51	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.045	72.55	-20.42	52.13	74.00	-21.87	PK
V	4592.045	59.95	-20.42	39.53	54.00	-14.47	AV
V	11570.115	62.80	-8.86	53.94	68.20	-14.26	PK
V	11570.115	49.11	-8.86	40.25	54.00	-13.75	AV
V	17355.080	55.59	-2.52	53.07	68.20	-15.13	PK
V	17355.080	44.18	-2.52	41.66	54.00	-12.34	AV
H	4592.160	72.52	-20.42	52.10	74.00	-21.90	PK
H	4592.160	59.66	-20.42	39.25	54.00	-14.75	AV
H	11570.100	60.34	-8.86	51.48	68.20	-16.72	PK
H	11570.100	49.89	-8.86	41.03	54.00	-12.97	AV
H	17355.116	59.13	-2.52	56.61	68.20	-11.59	PK
H	17355.116	44.65	-2.52	42.13	54.00	-11.87	AV
High Channel (5825 MHz)-Above 1G							
V	6039.179	74.56	-18.93	55.63	68.20	-12.57	PK
V	6039.179	59.76	-18.93	40.82	54.00	-13.18	AV
V	11650.001	64.86	-8.92	55.94	74.00	-18.06	PK
V	11650.001	49.61	-8.92	40.69	54.00	-13.31	AV
V	17475.178	55.84	-1.86	53.98	68.20	-14.22	PK
V	17475.178	44.60	-1.86	42.74	54.00	-11.26	AV
H	6039.082	72.61	-18.93	53.68	68.20	-14.52	PK
H	6039.082	59.23	-18.93	40.29	54.00	-13.71	AV
H	11650.108	61.15	-8.92	52.23	74.00	-21.77	PK
H	11650.108	49.26	-8.92	40.34	54.00	-13.66	AV
H	17475.078	56.05	-1.86	54.19	68.20	-14.01	PK
H	17475.078	44.96	-1.86	43.10	54.00	-10.90	AV

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

Test Mode:	TX(5.8G) - 802.11ax-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
V	4679.037	72.72	-20.24	52.48	74.00	-21.52	PK
V	4679.037	59.05	-20.24	38.81	54.00	-15.19	AV
V	11510.144	60.92	-8.81	52.11	74.00	-21.89	PK
V	11510.144	49.66	-8.81	40.85	54.00	-13.15	AV
V	17265.075	59.63	-3.01	56.62	68.20	-11.58	PK
V	17265.075	44.31	-3.01	41.30	54.00	-12.70	AV
H	4679.105	74.66	-20.24	54.42	74.00	-19.58	PK
H	4679.105	59.13	-20.24	38.89	54.00	-15.11	AV
H	11510.165	64.84	-8.81	56.03	74.00	-17.97	PK
H	11510.165	49.19	-8.81	40.38	54.00	-13.62	AV
H	17265.015	59.22	-3.01	56.21	68.20	-11.99	PK
H	17265.015	44.91	-3.01	41.90	54.00	-12.10	AV
High Channel (5795 MHz)-Above 1G							
V	6039.094	72.58	-18.93	53.65	68.20	-14.55	PK
V	6039.094	59.31	-18.93	40.37	54.00	-13.63	AV
V	11590.148	64.00	-8.87	55.13	74.00	-18.87	PK
V	11590.148	49.01	-8.87	40.14	54.00	-13.86	AV
V	17385.054	58.79	-2.35	56.44	68.20	-11.76	PK
V	17385.054	44.17	-2.35	41.82	54.00	-12.18	AV
H	6039.155	73.06	-18.93	54.13	68.20	-14.07	PK
H	6039.155	59.07	-18.93	40.14	54.00	-13.86	AV
H	11590.160	60.73	-8.87	51.86	74.00	-22.14	PK
H	11590.160	49.06	-8.87	40.19	54.00	-13.81	AV
H	17385.156	57.14	-2.35	54.79	68.20	-13.41	PK
H	17385.156	44.92	-2.35	42.57	54.00	-11.43	AV

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

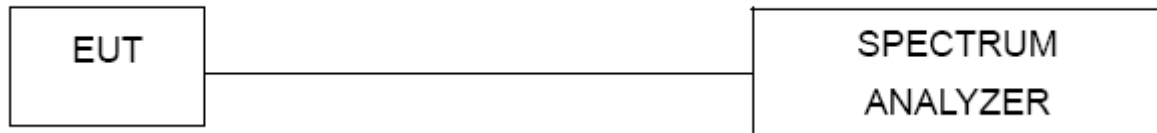
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

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 Wifi Repeater 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 Wifi Repeater 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 Wifi Repeaters operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.3 Test procedure

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

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

8.4 EUT operating Conditions

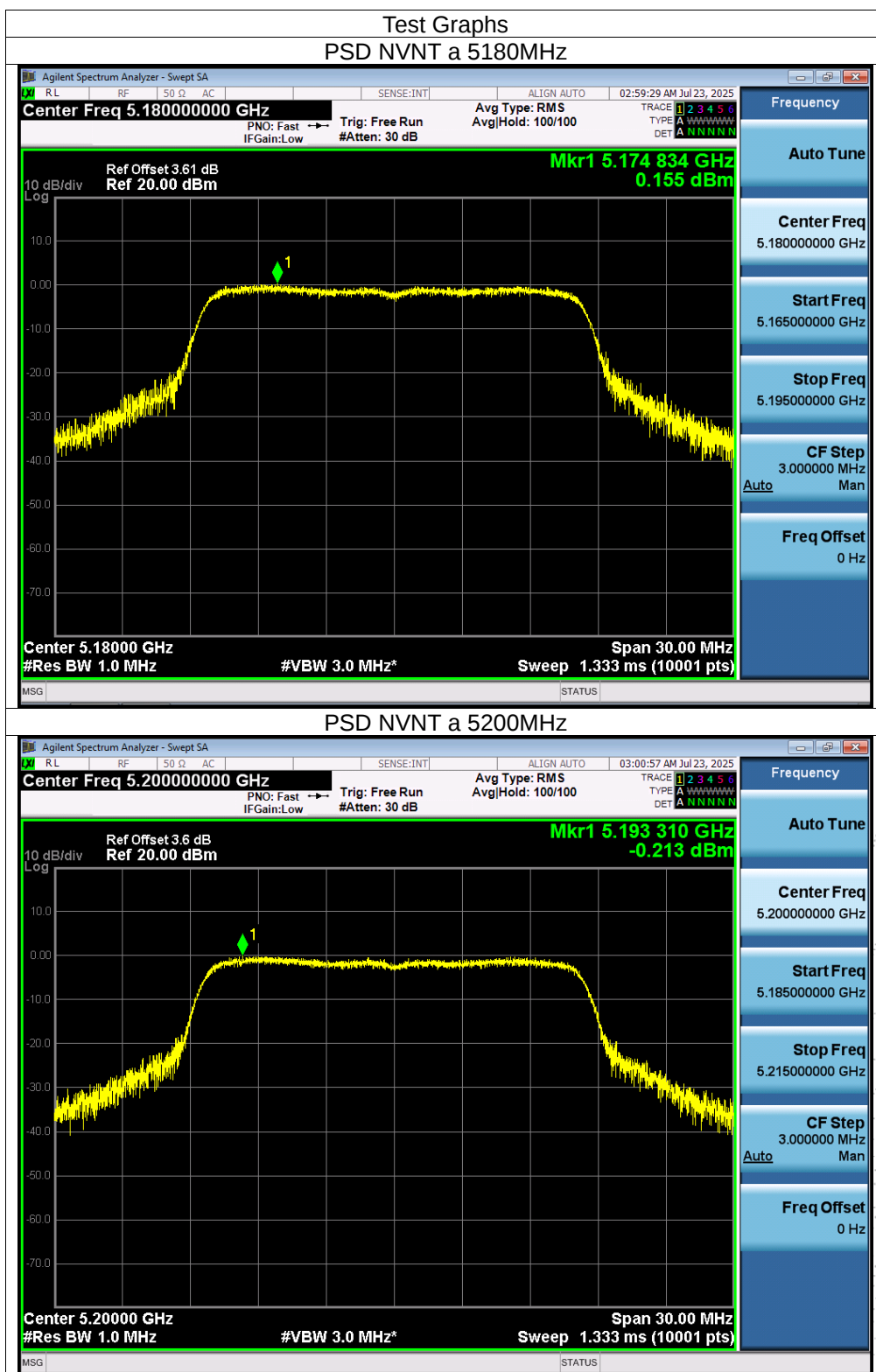
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

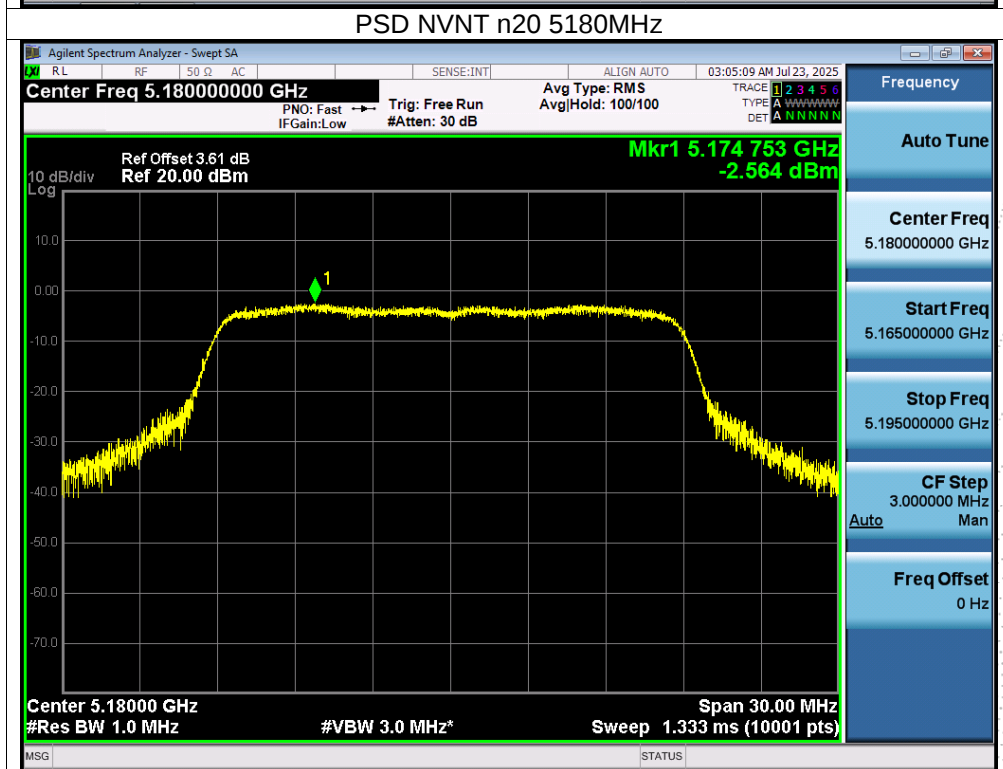
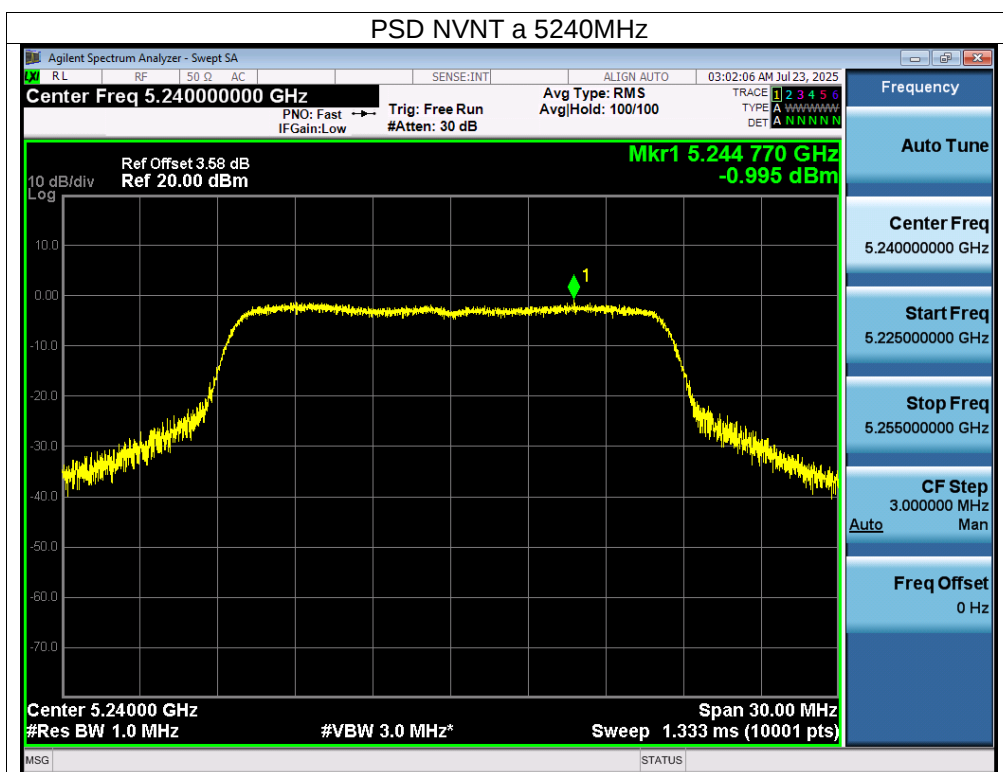
8.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	(5180-5240MHz)		

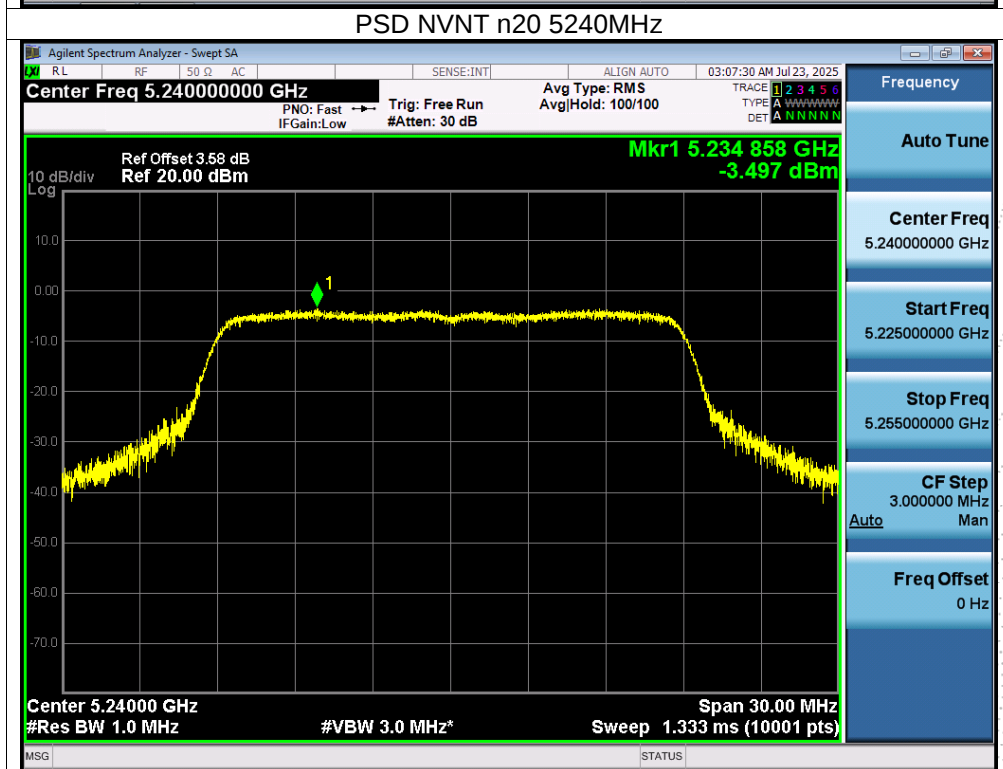
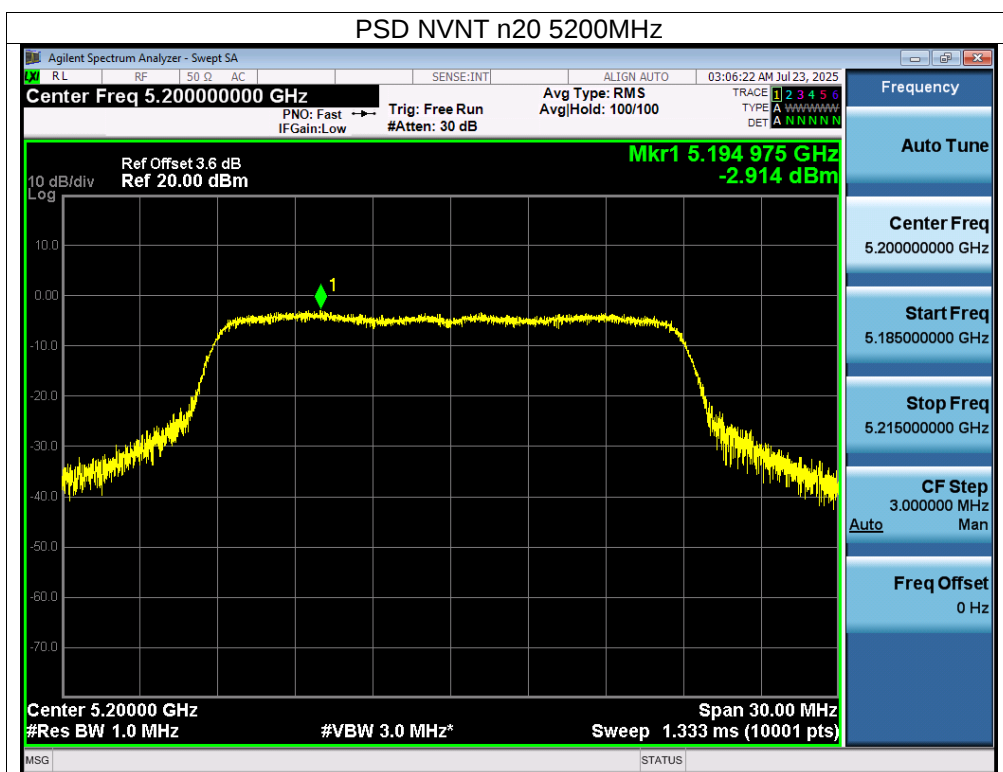
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	0.16	11	Pass
NVNT	a	5200	-0.21	11	Pass
NVNT	a	5240	-1.00	11	Pass
NVNT	n20	5180	-2.56	11	Pass
NVNT	n20	5200	-2.91	11	Pass
NVNT	n20	5240	-3.50	11	Pass
NVNT	n40	5190	-6.33	11	Pass
NVNT	n40	5230	-6.74	11	Pass
NVNT	ac20	5180	-2.35	11	Pass
NVNT	ac20	5200	-2.65	11	Pass
NVNT	ac20	5240	-3.42	11	Pass
NVNT	ac40	5190	-5.88	11	Pass
NVNT	ac40	5230	-6.85	11	Pass
NVNT	ax20	5180	-2.57	11	Pass
NVNT	ax20	5200	-3.05	11	Pass
NVNT	ax20	5240	-3.62	11	Pass
NVNT	ax40	5190	-6.58	11	Pass
NVNT	ax40	5230	-7.85	11	Pass

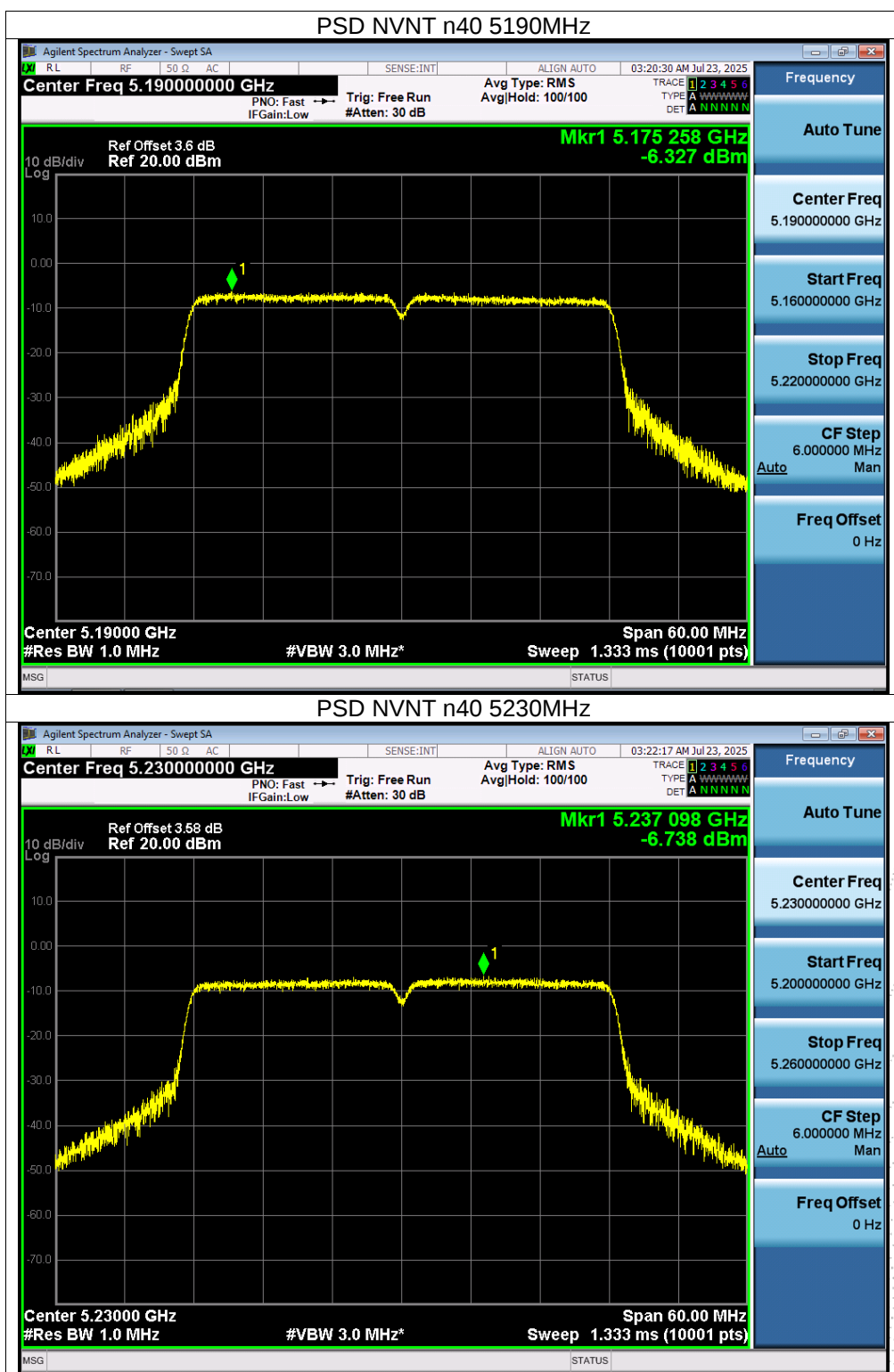
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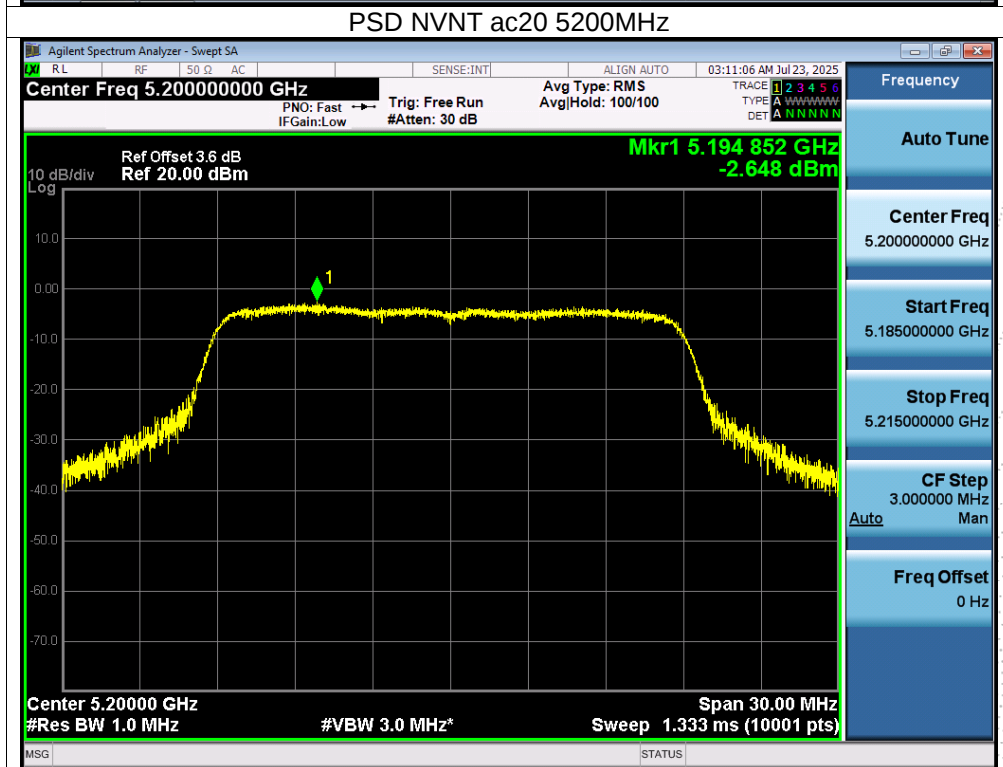
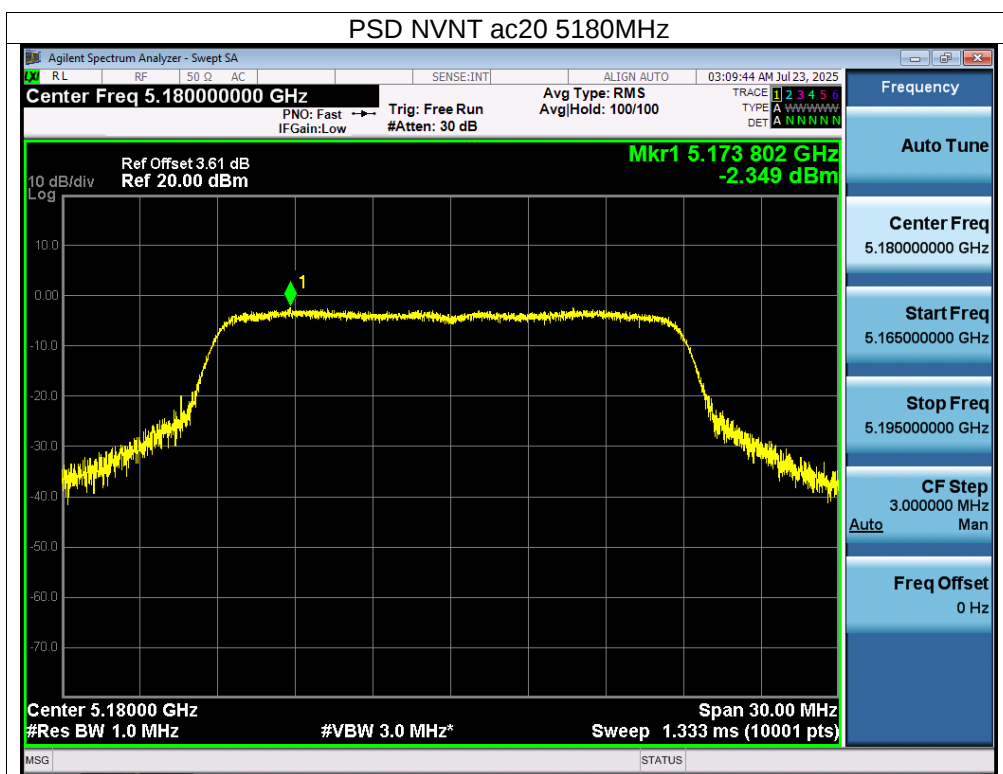


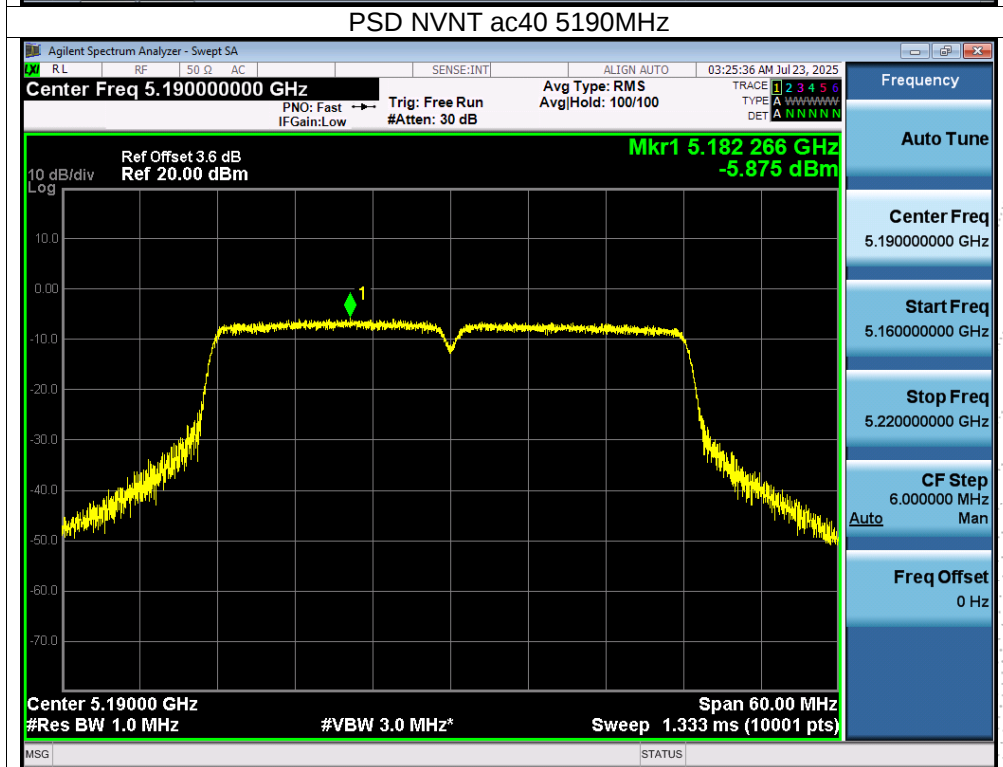
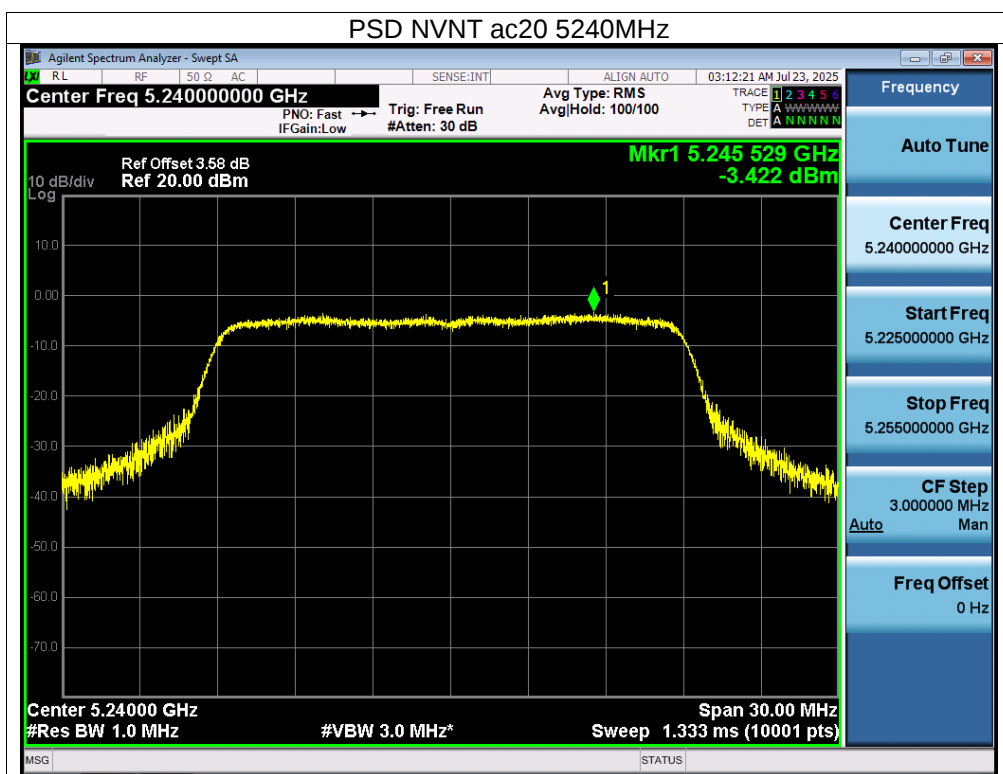


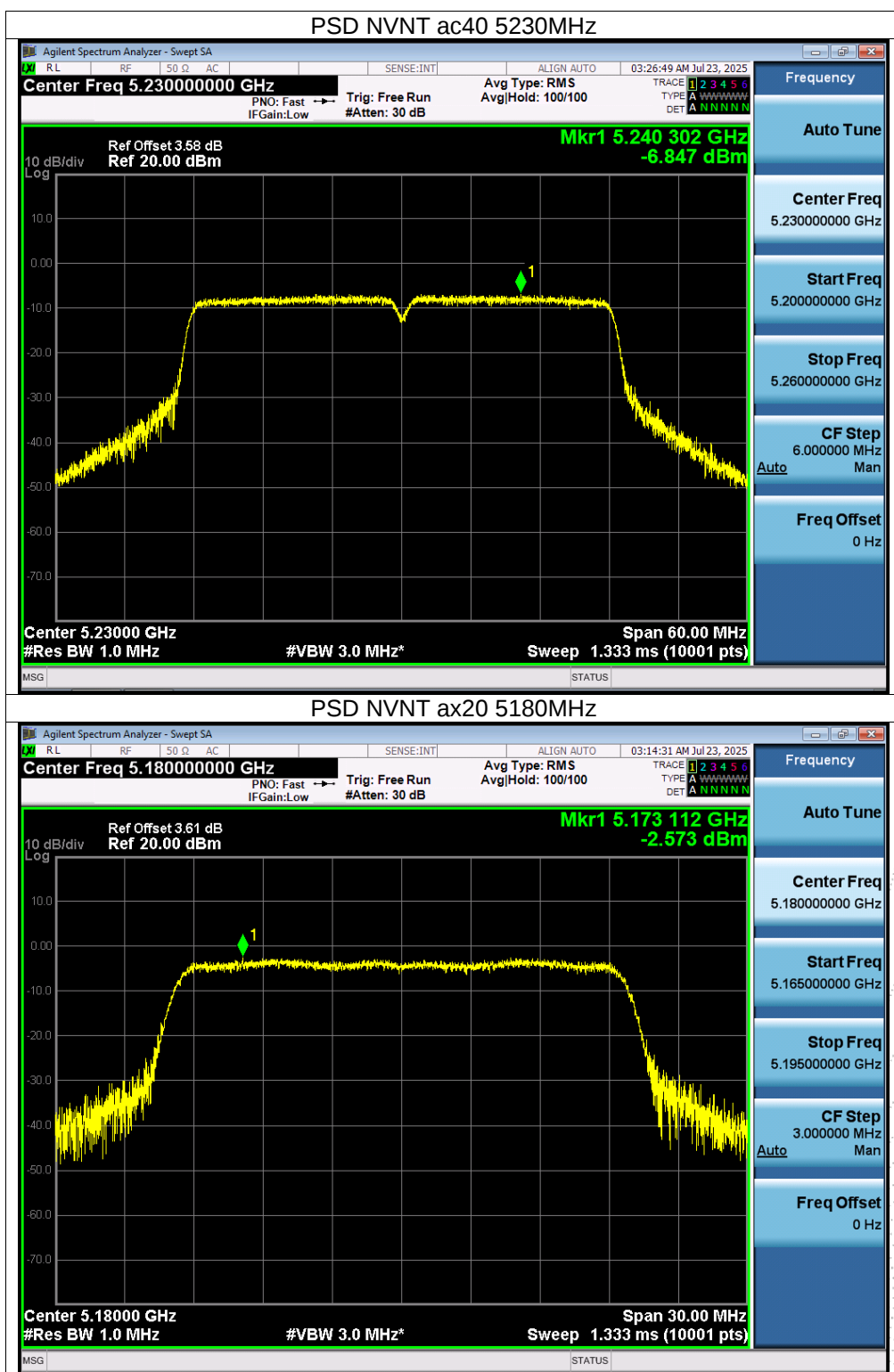
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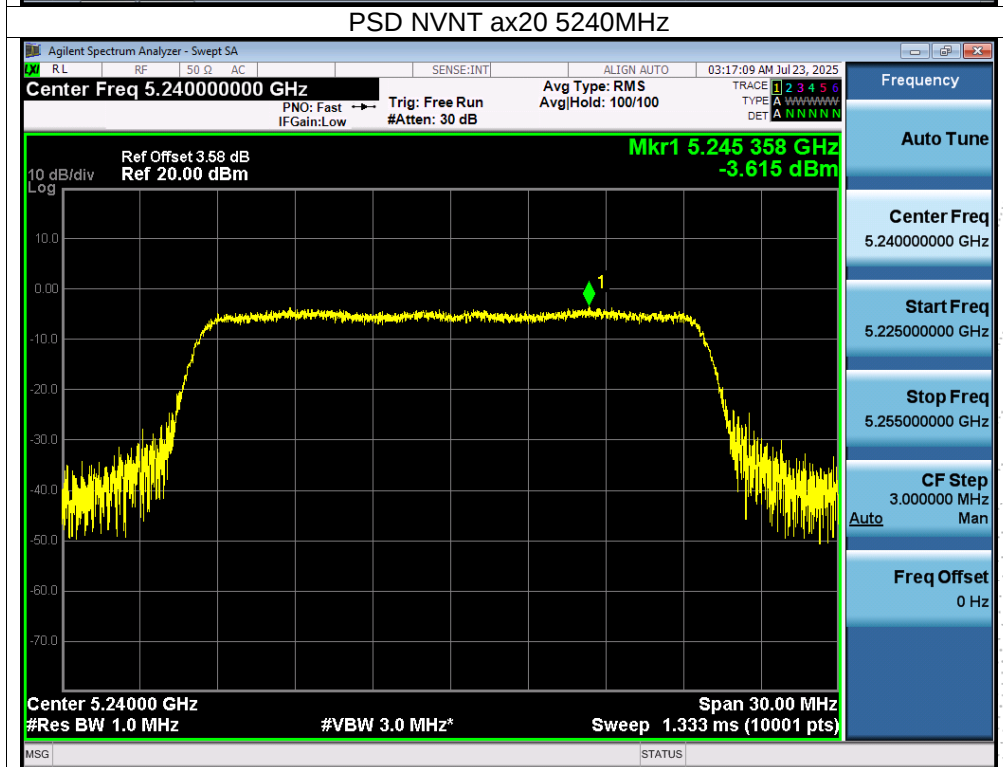
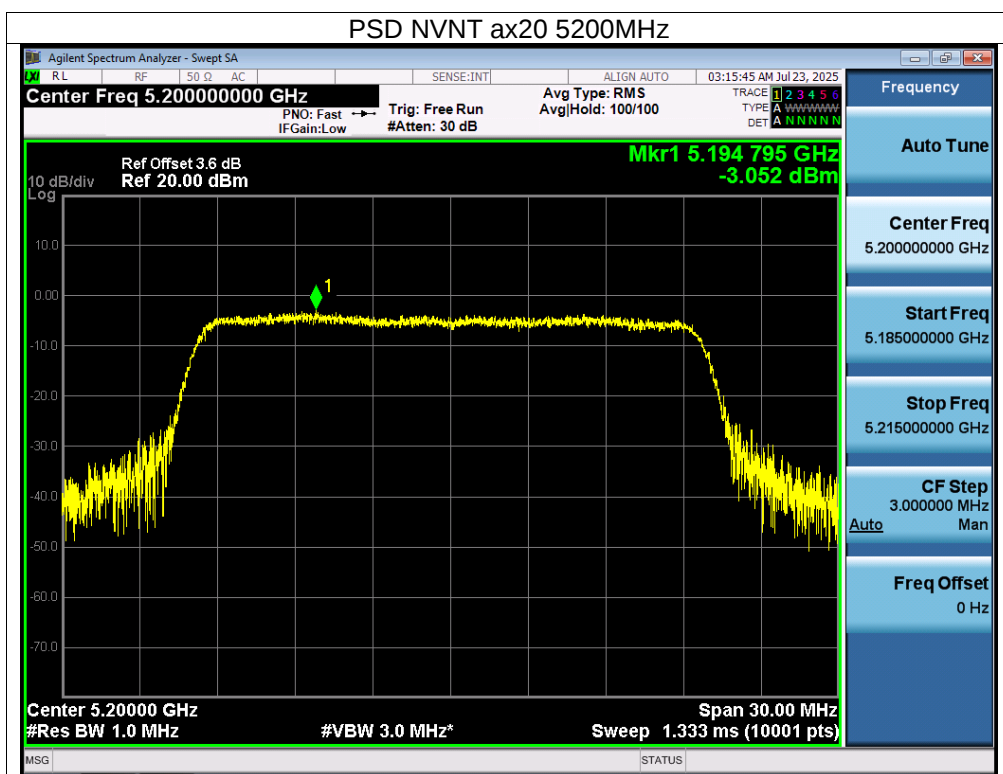




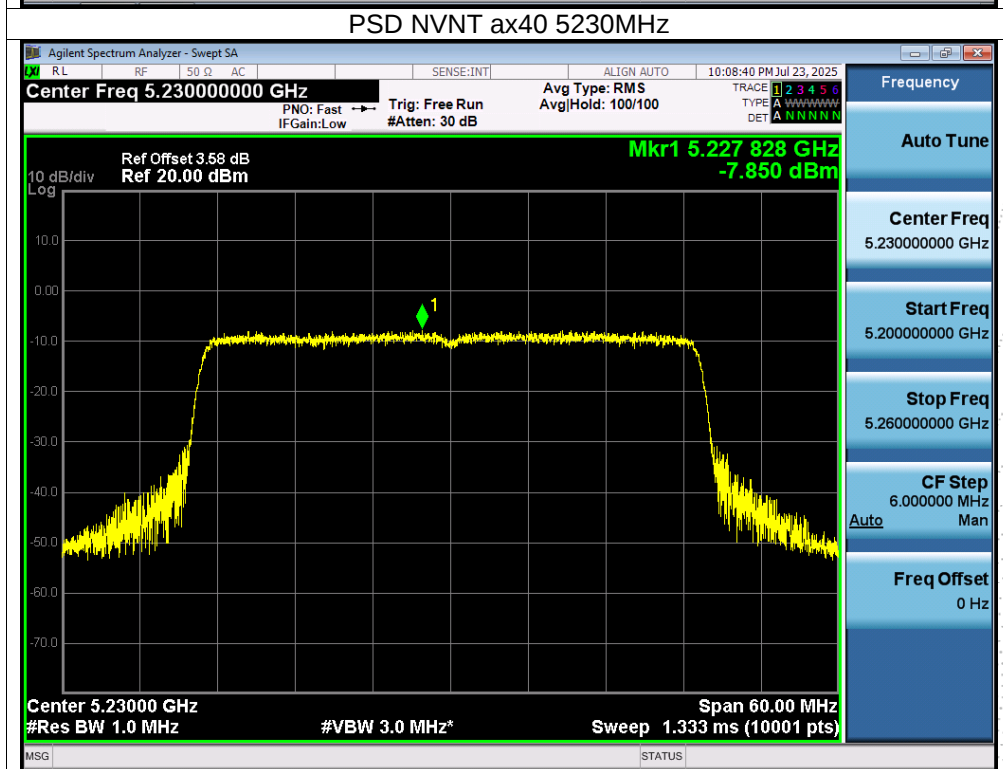
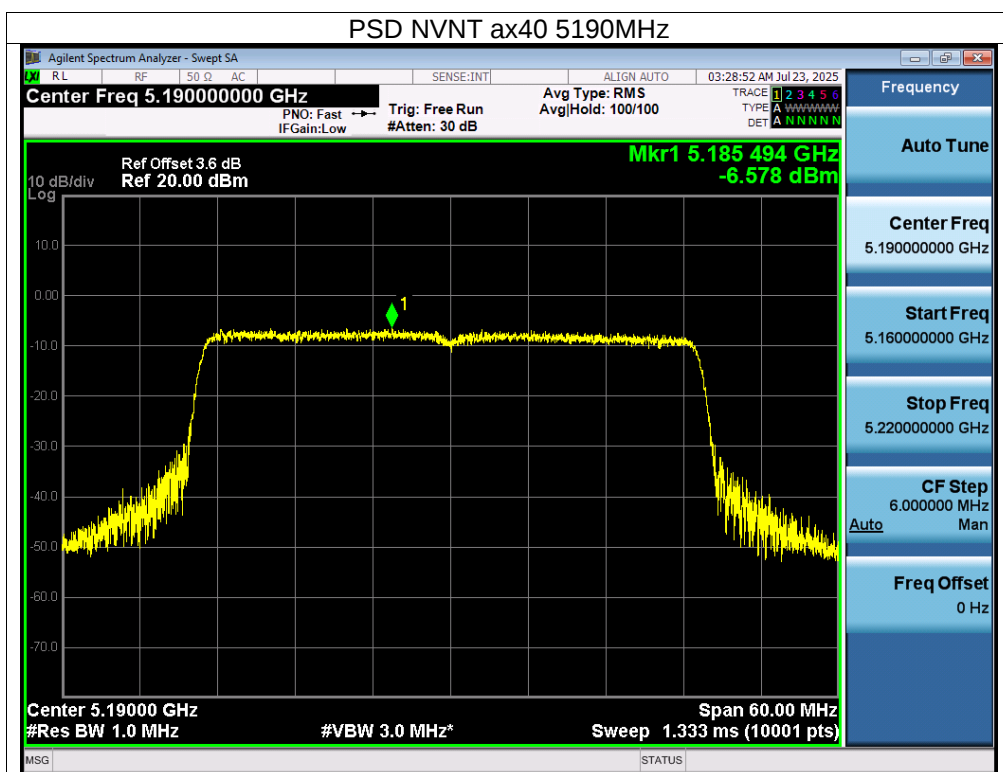




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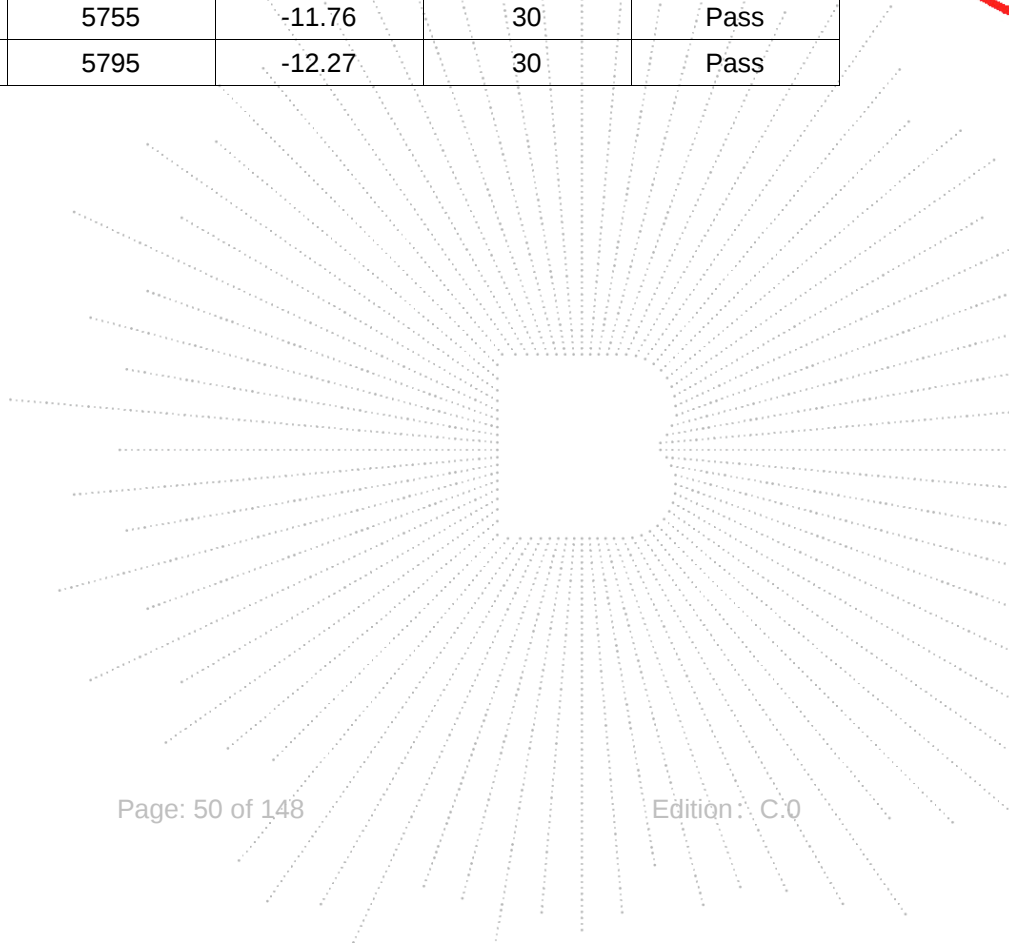


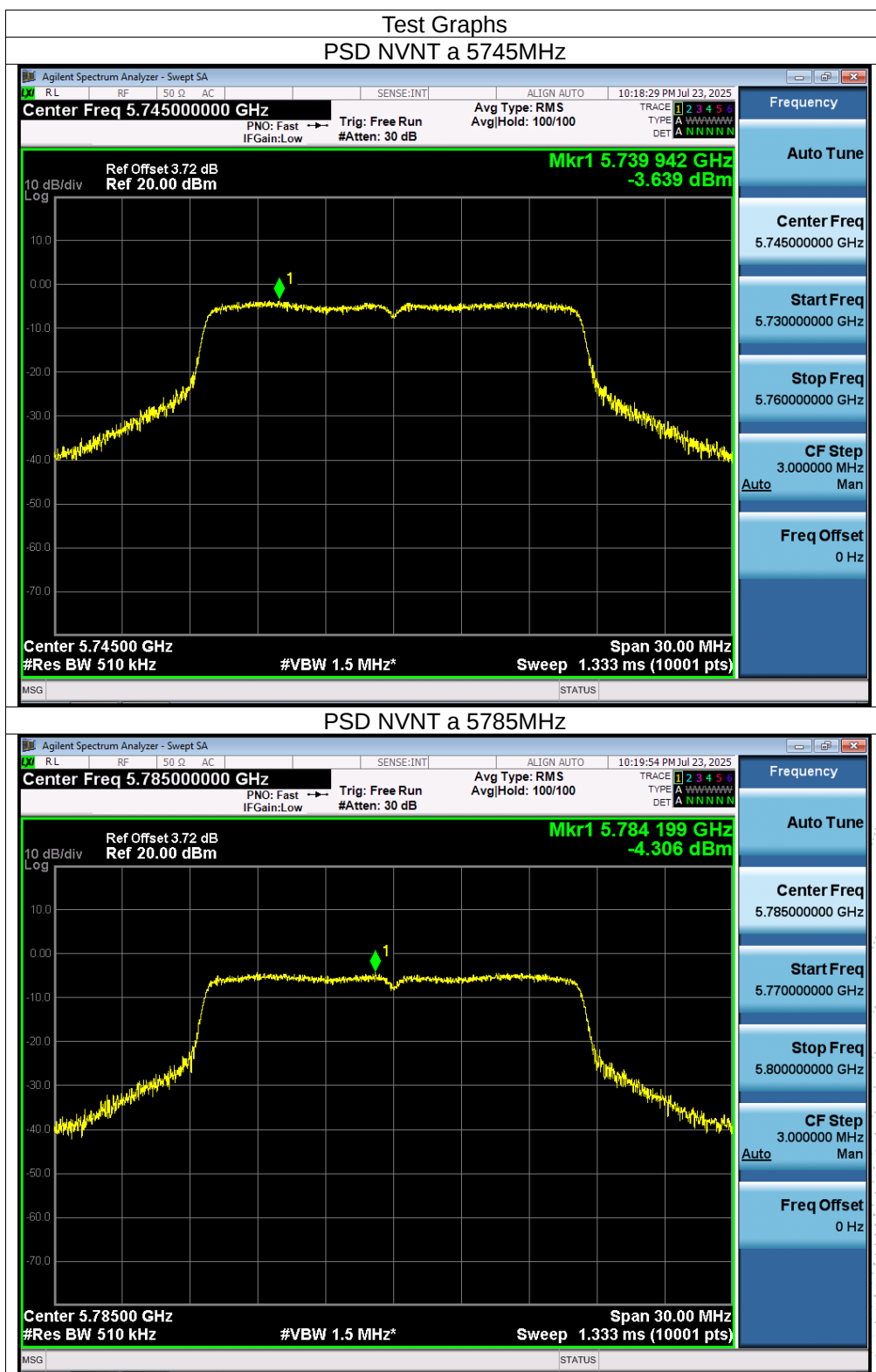
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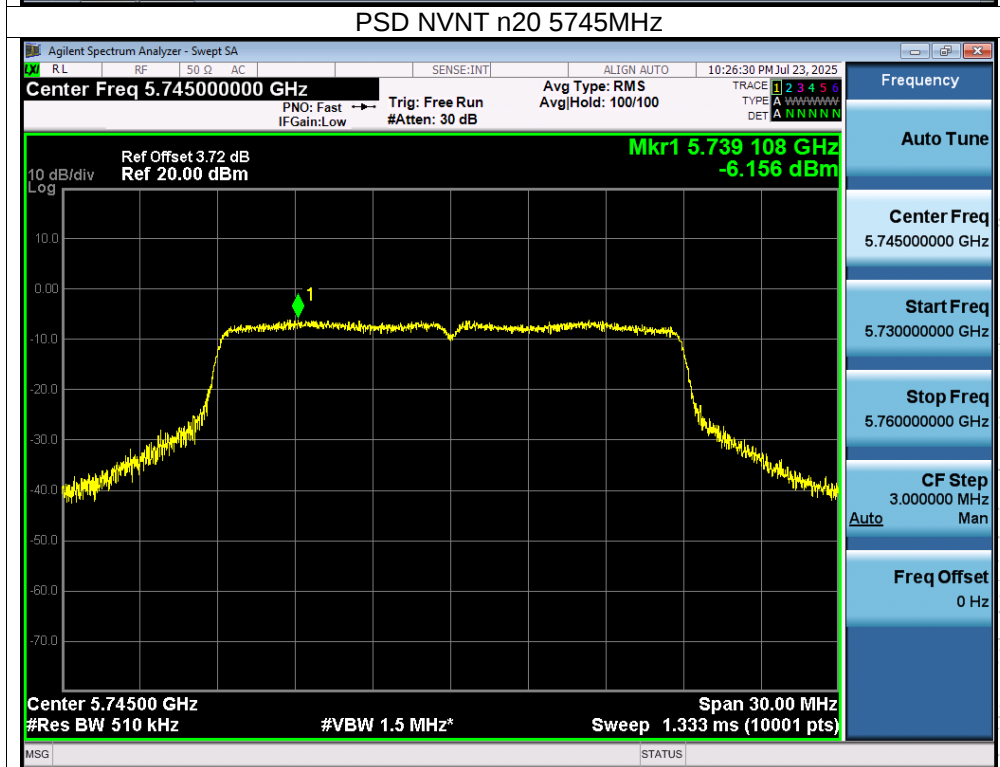
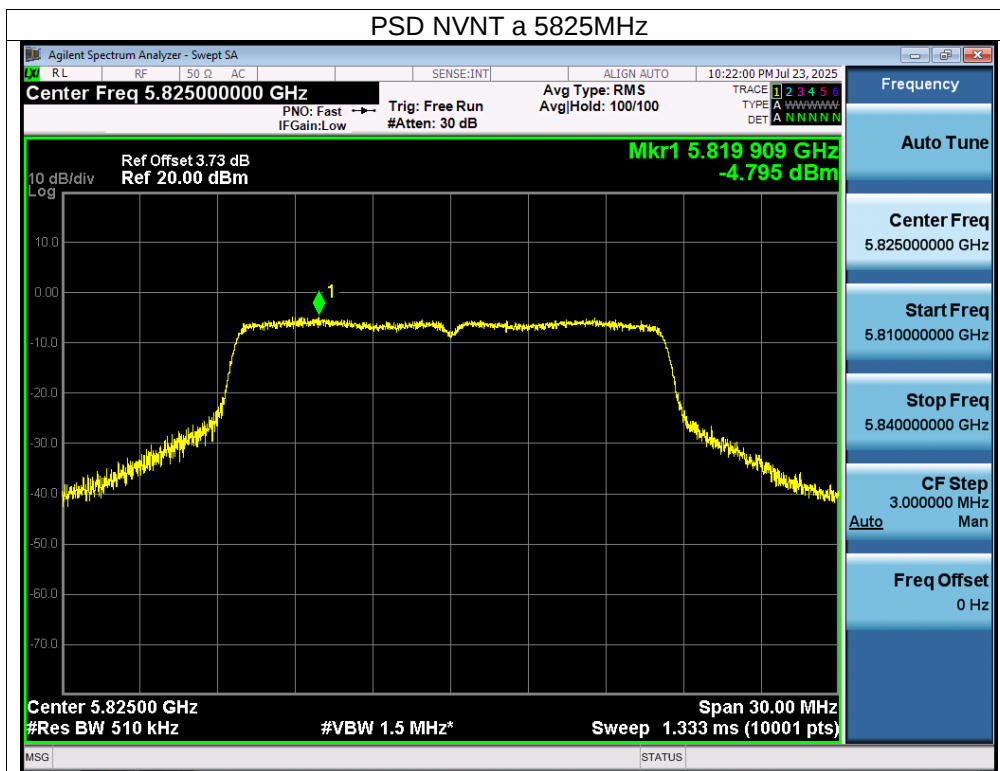


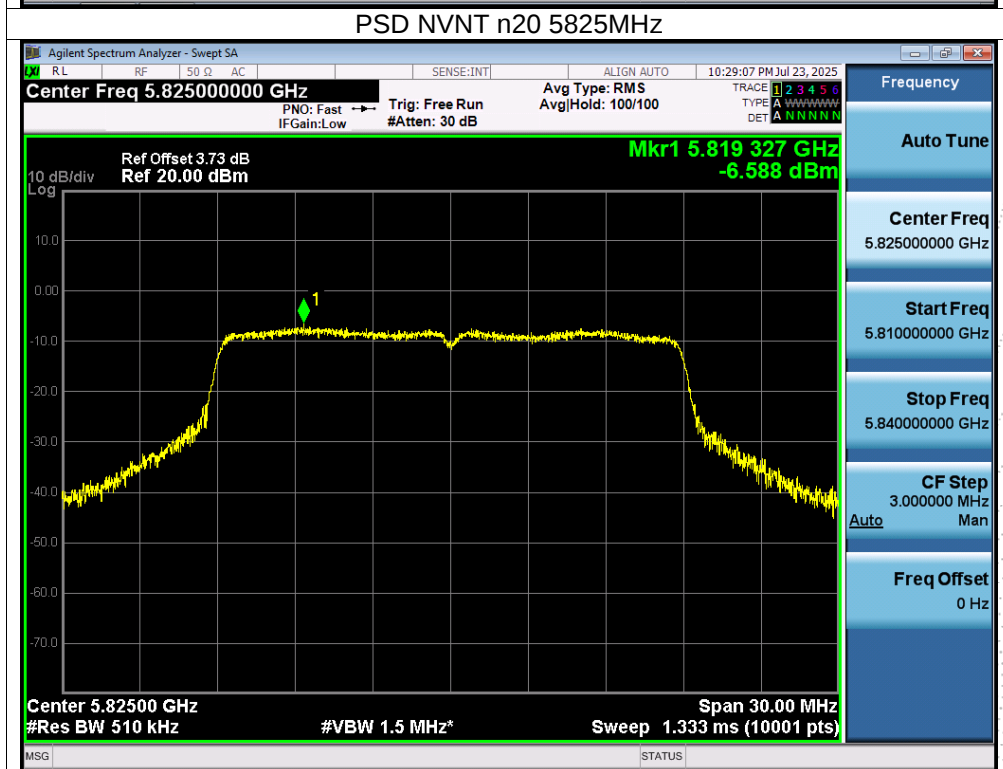
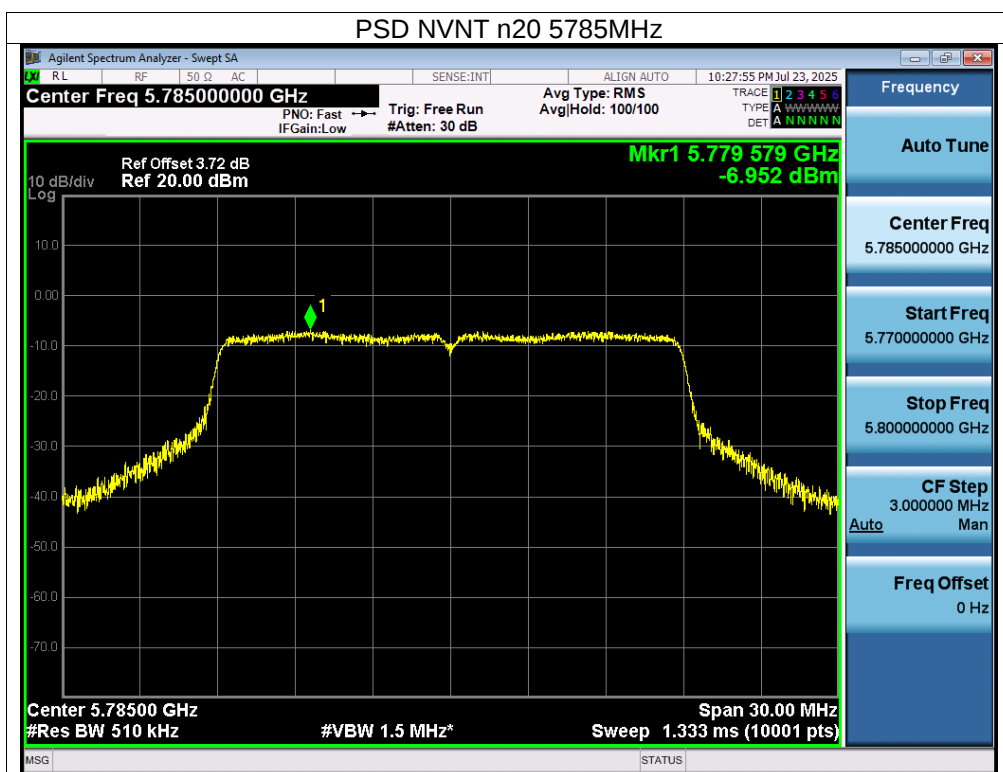
Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	(5745-5825MHz)		

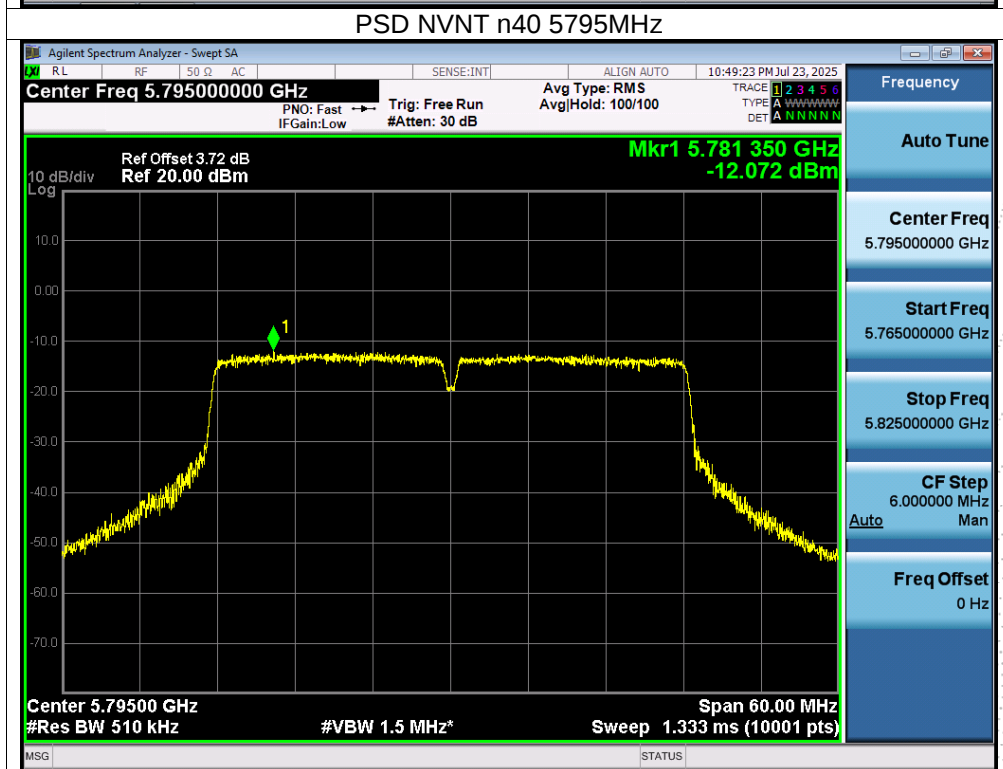
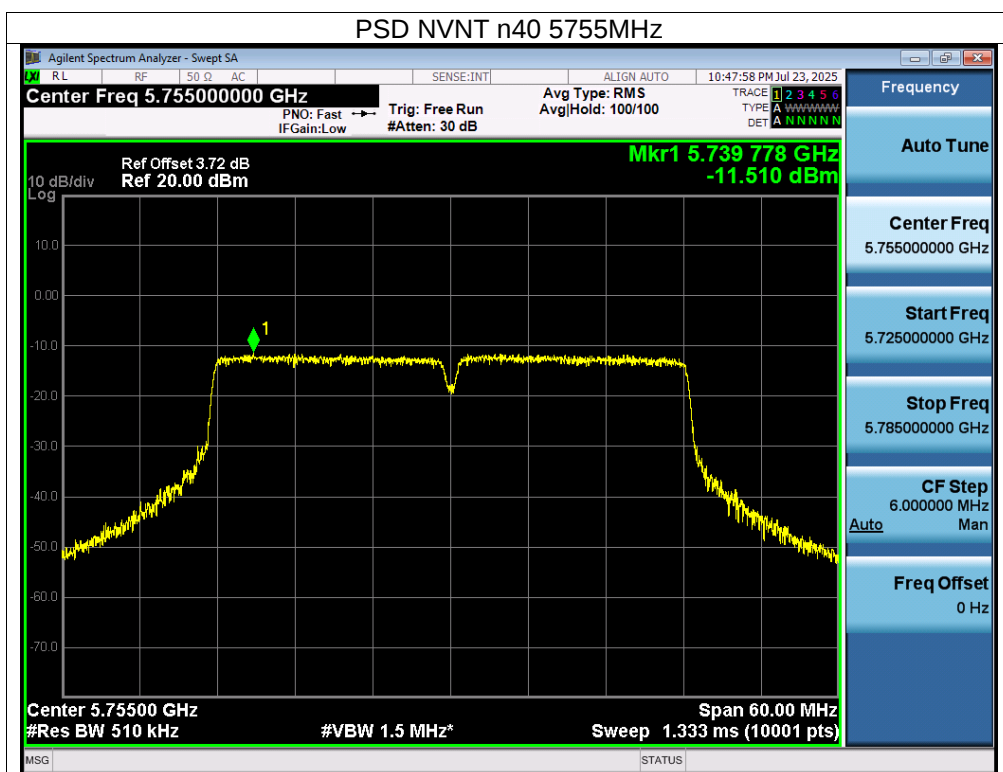
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	-3.64	30	Pass
NVNT	a	5785	-4.31	30	Pass
NVNT	a	5825	-4.80	30	Pass
NVNT	n20	5745	-6.16	30	Pass
NVNT	n20	5785	-6.95	30	Pass
NVNT	n20	5825	-6.59	30	Pass
NVNT	n40	5755	-11.51	30	Pass
NVNT	n40	5795	-12.07	30	Pass
NVNT	ac20	5745	-5.99	30	Pass
NVNT	ac20	5785	-6.64	30	Pass
NVNT	ac20	5825	-7.43	30	Pass
NVNT	ac40	5755	-11.07	30	Pass
NVNT	ac40	5795	-12.32	30	Pass
NVNT	ax20	5745	-6.26	30	Pass
NVNT	ax20	5785	-6.85	30	Pass
NVNT	ax20	5825	-7.37	30	Pass
NVNT	ax40	5755	-11.76	30	Pass
NVNT	ax40	5795	-12.27	30	Pass



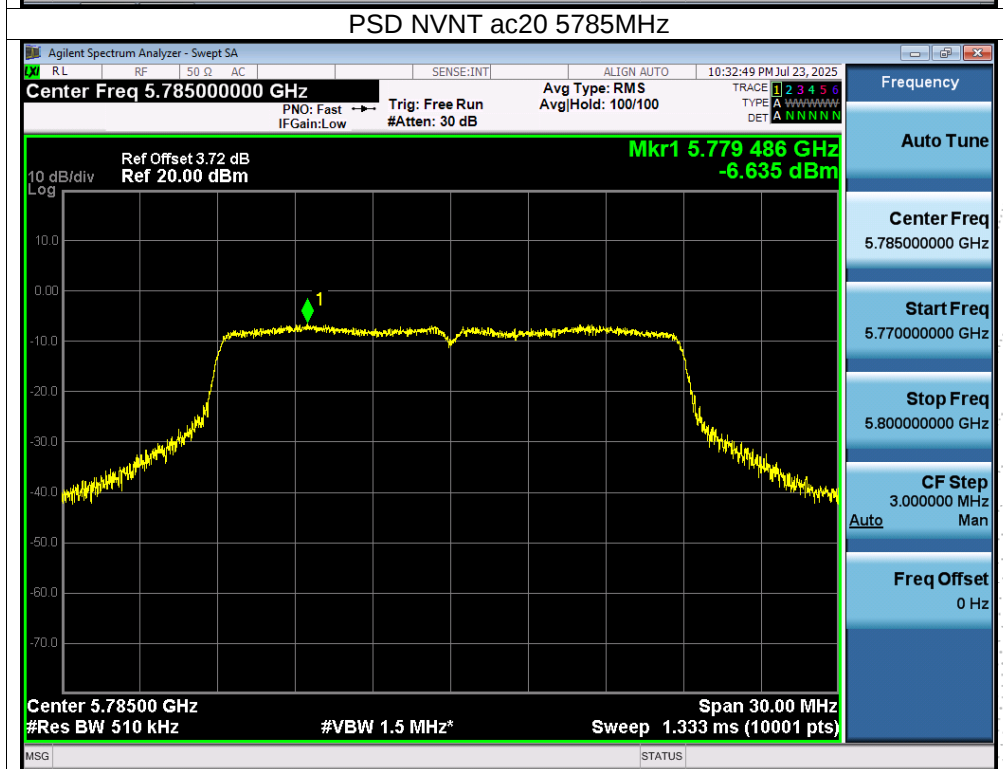
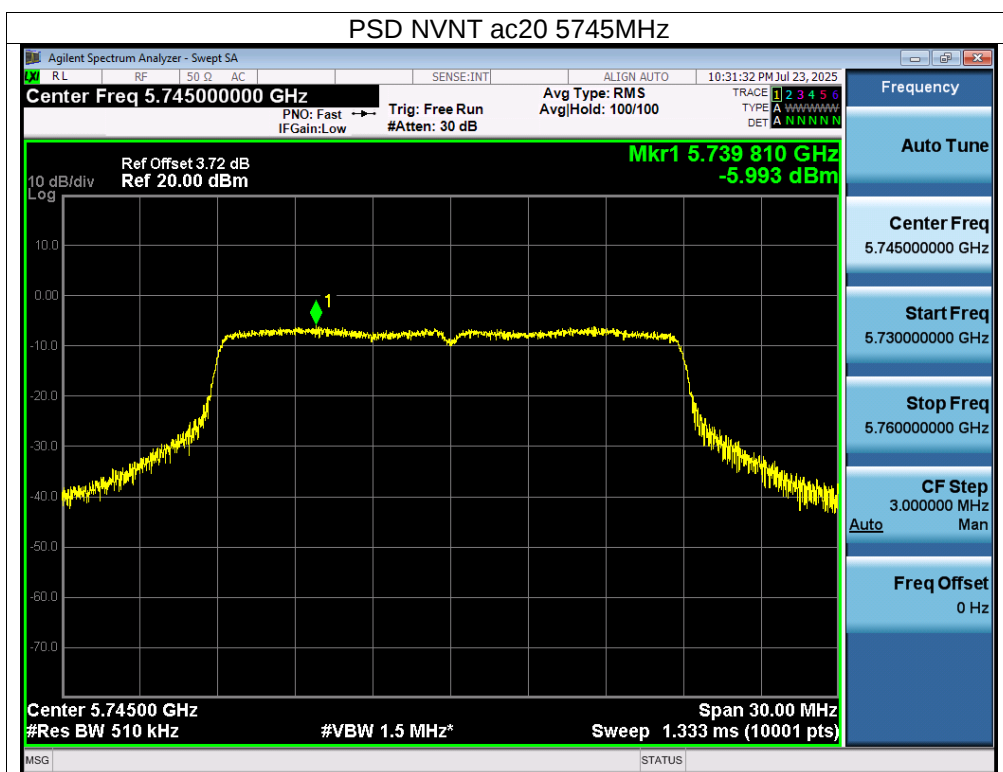


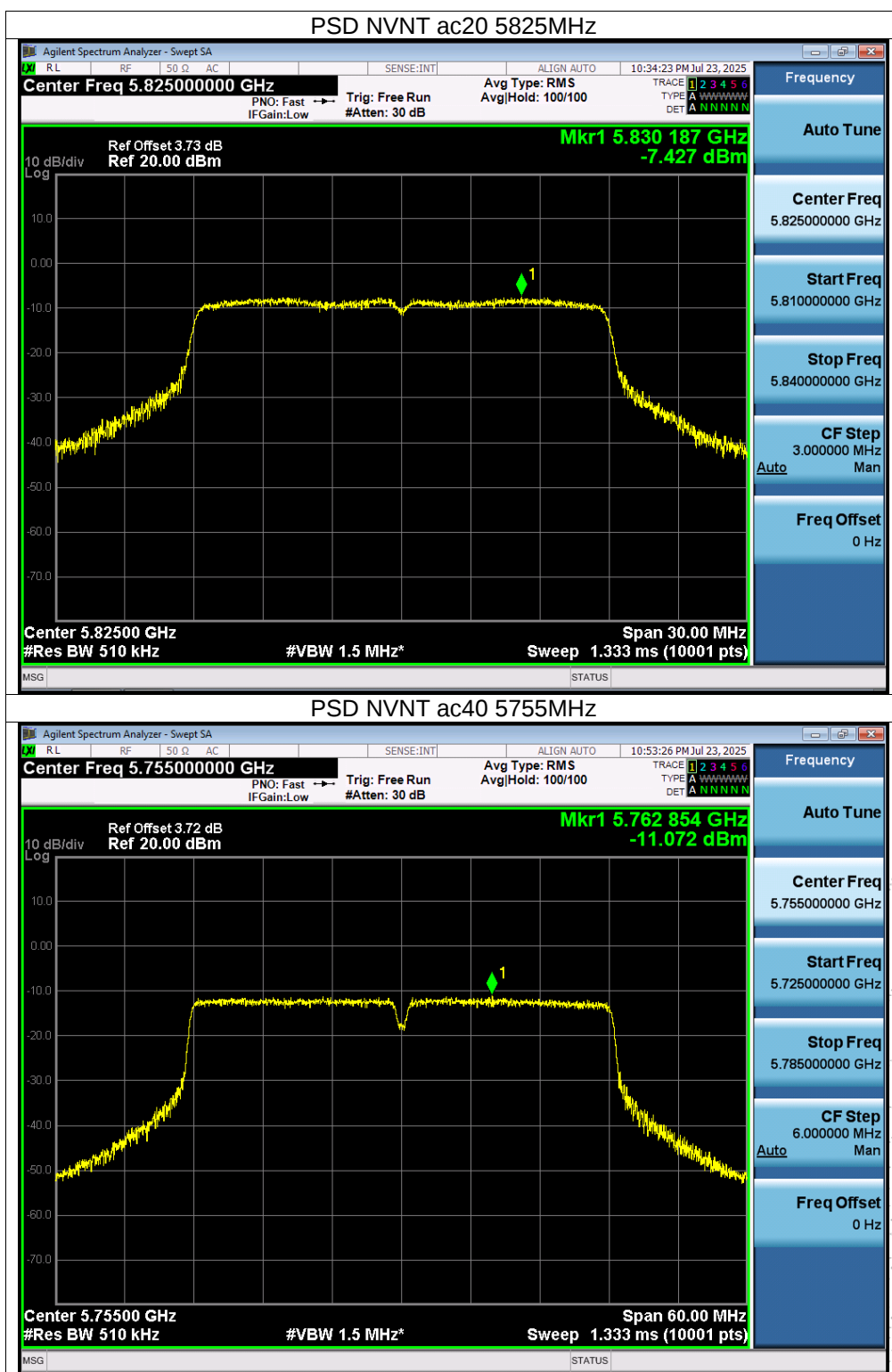


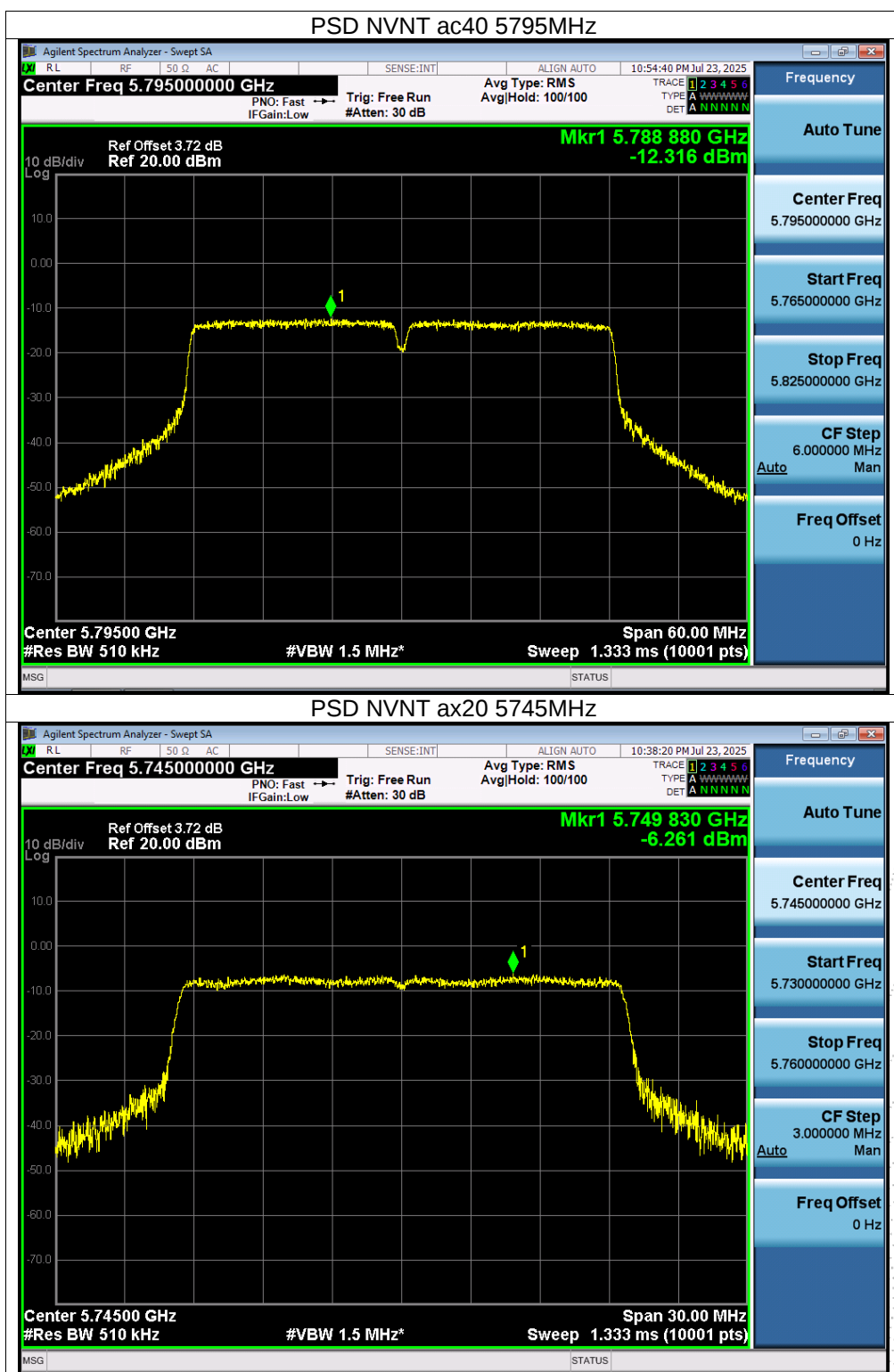


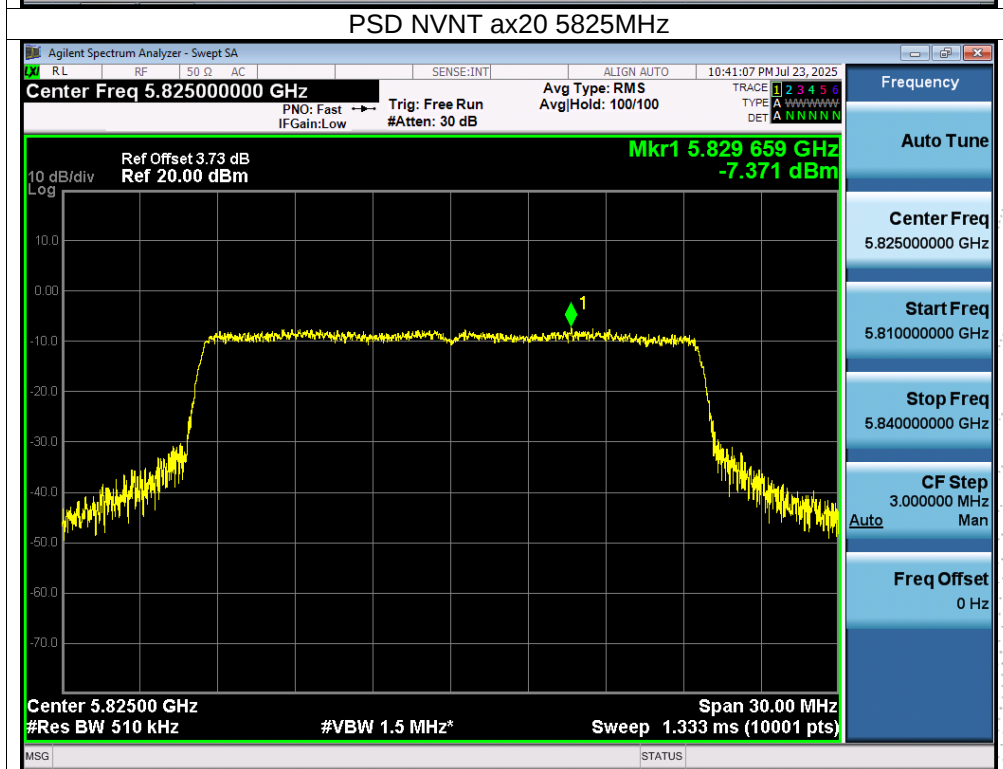
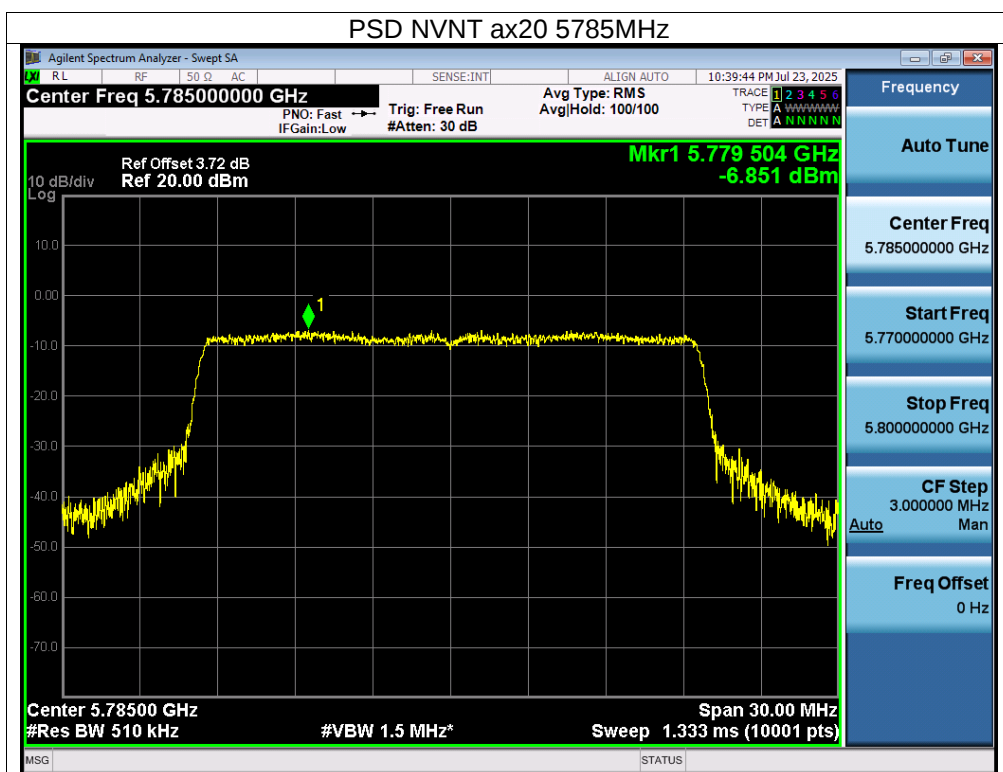


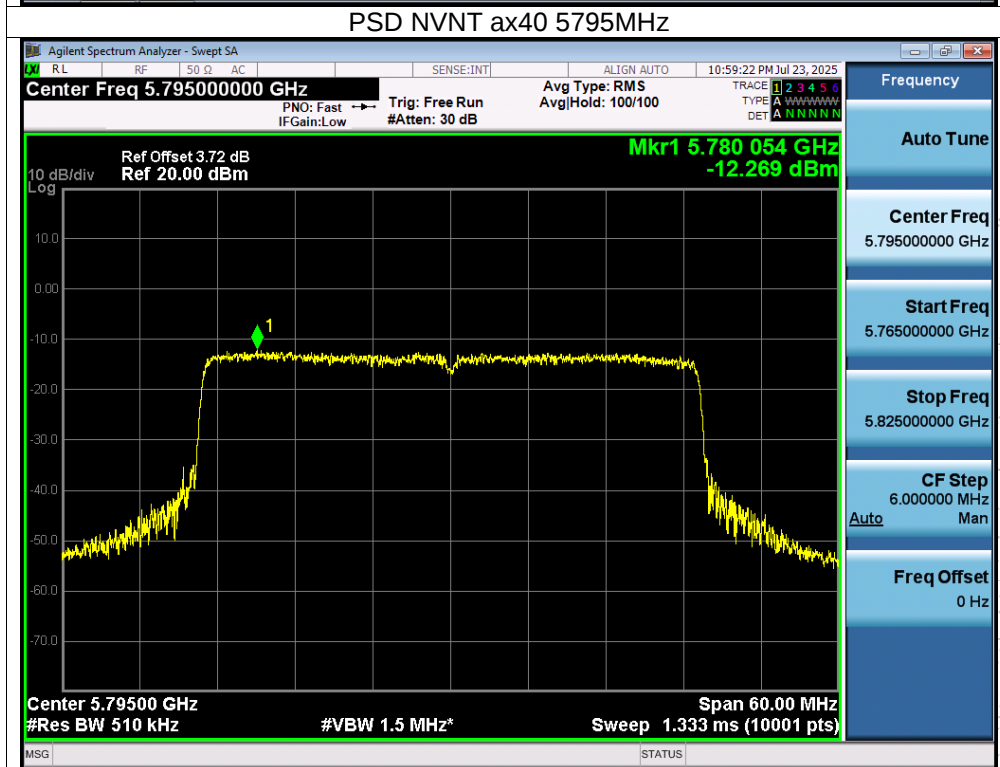
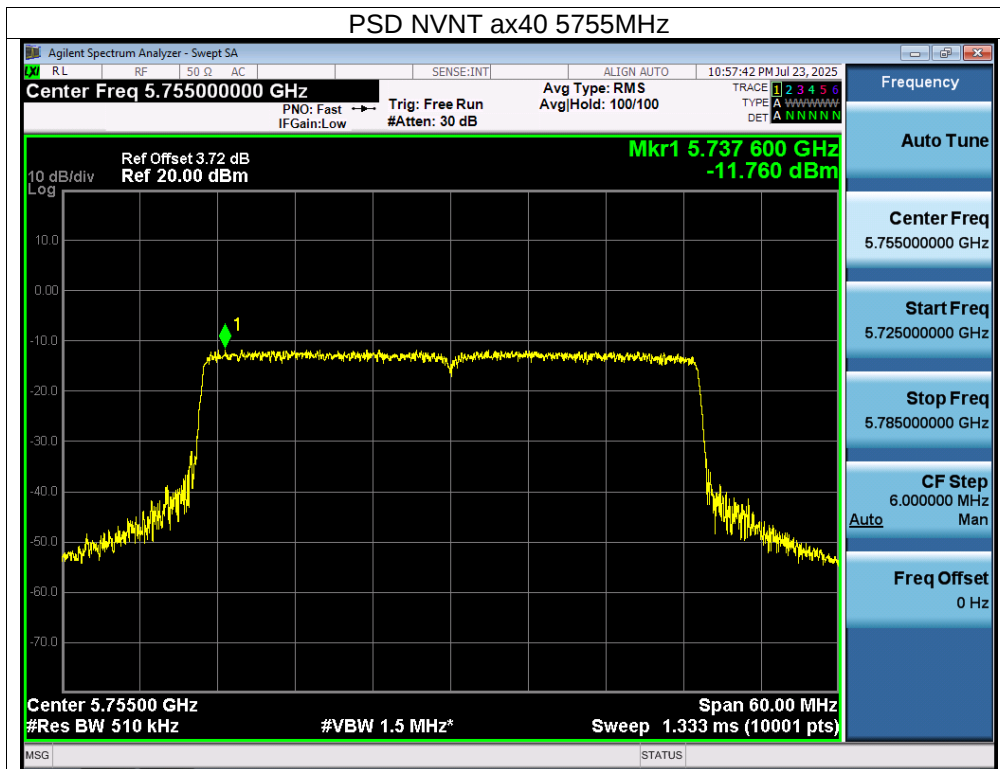
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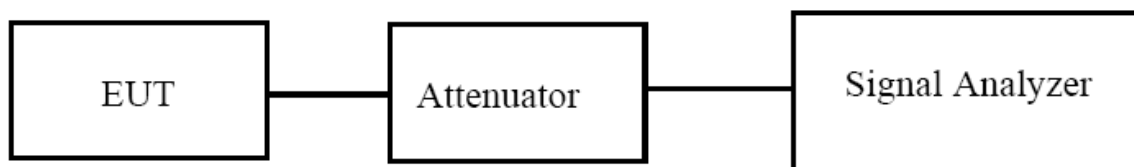






9. 26dB & 6dB & 99% Emission Bandwidth

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.

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.

9.4 EUT operating Conditions

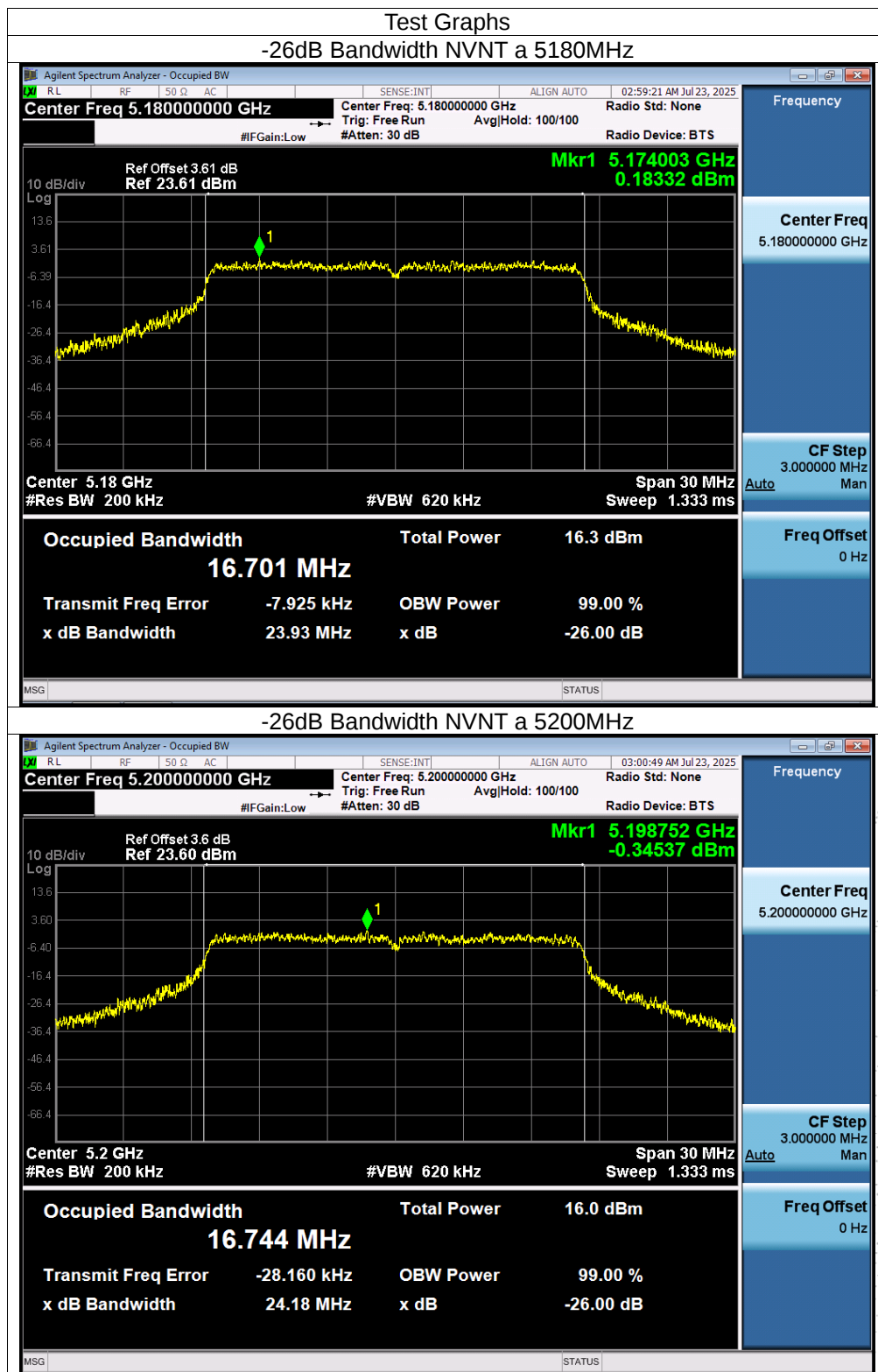
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

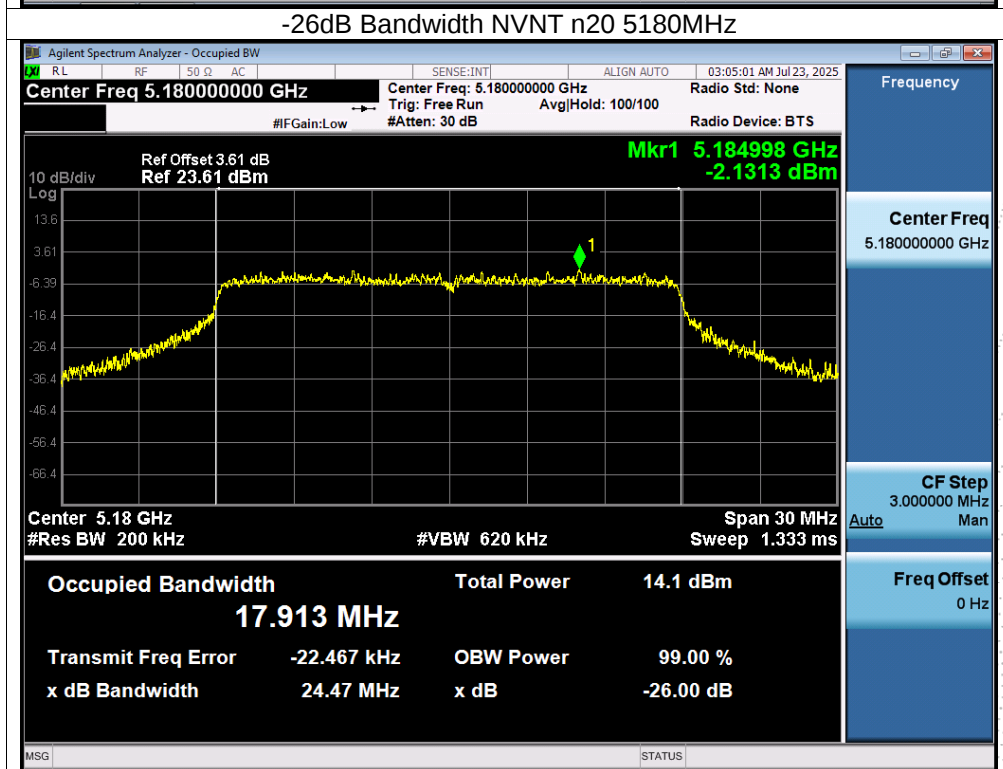
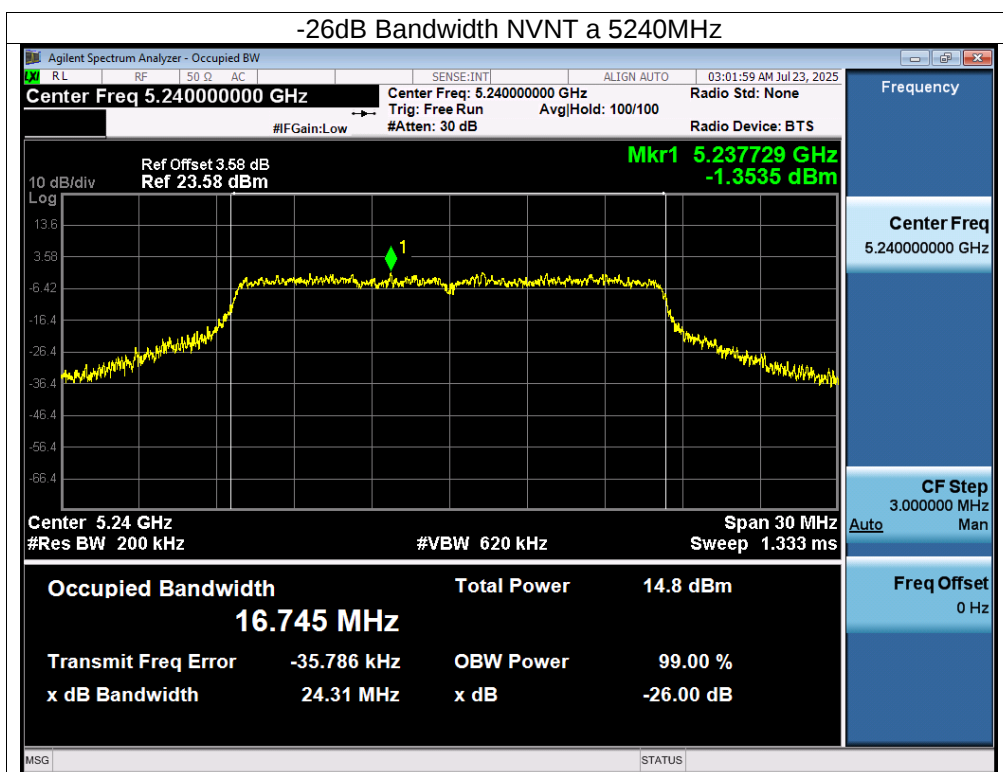
9.5 Test Result

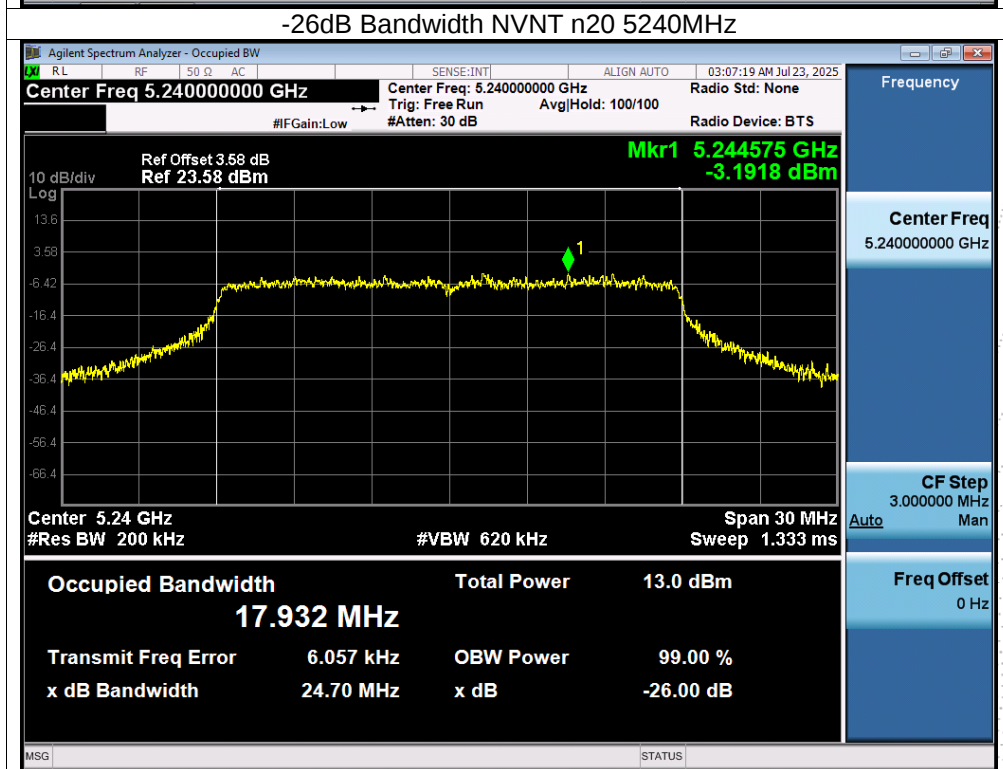
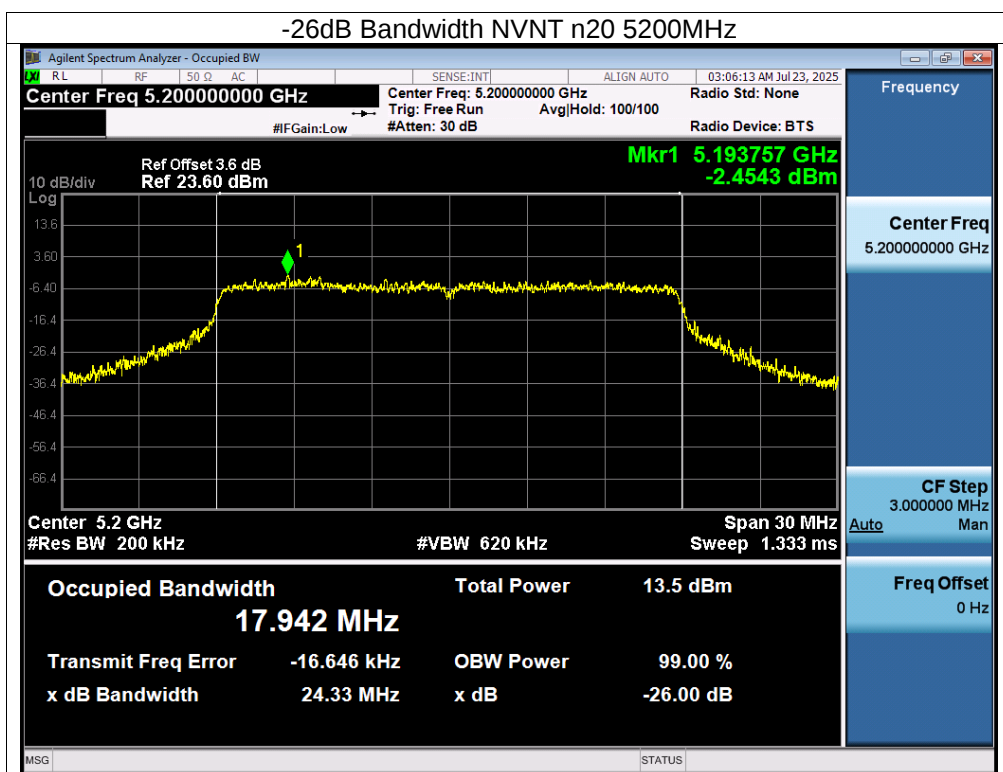
Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	(5180-5240MHz)		

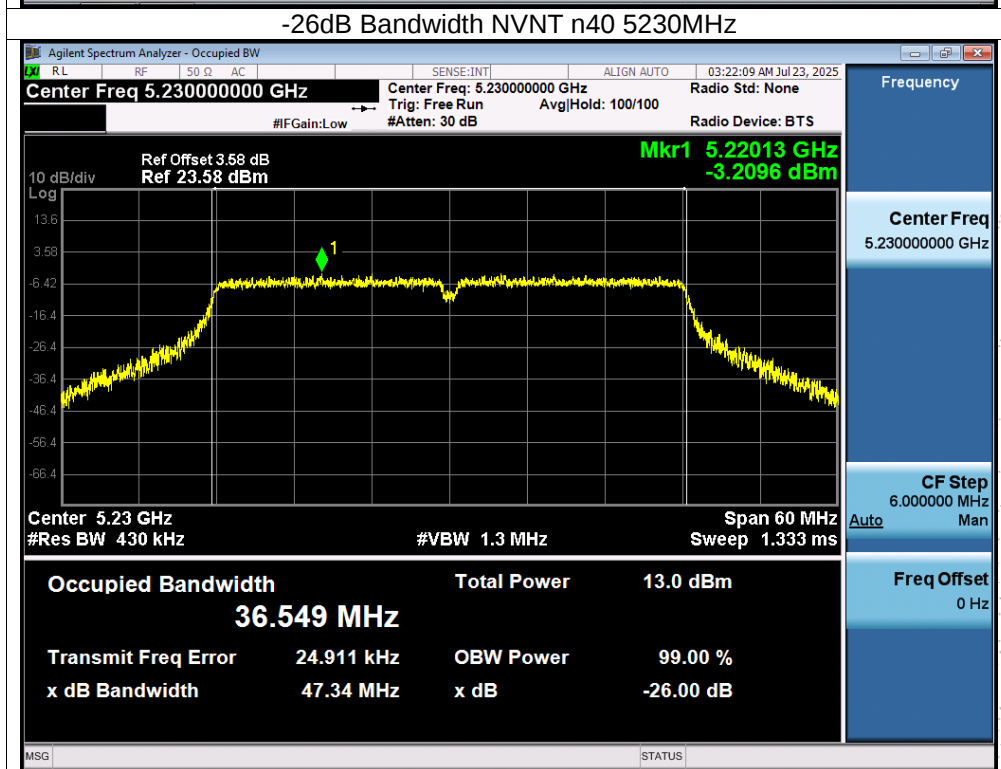
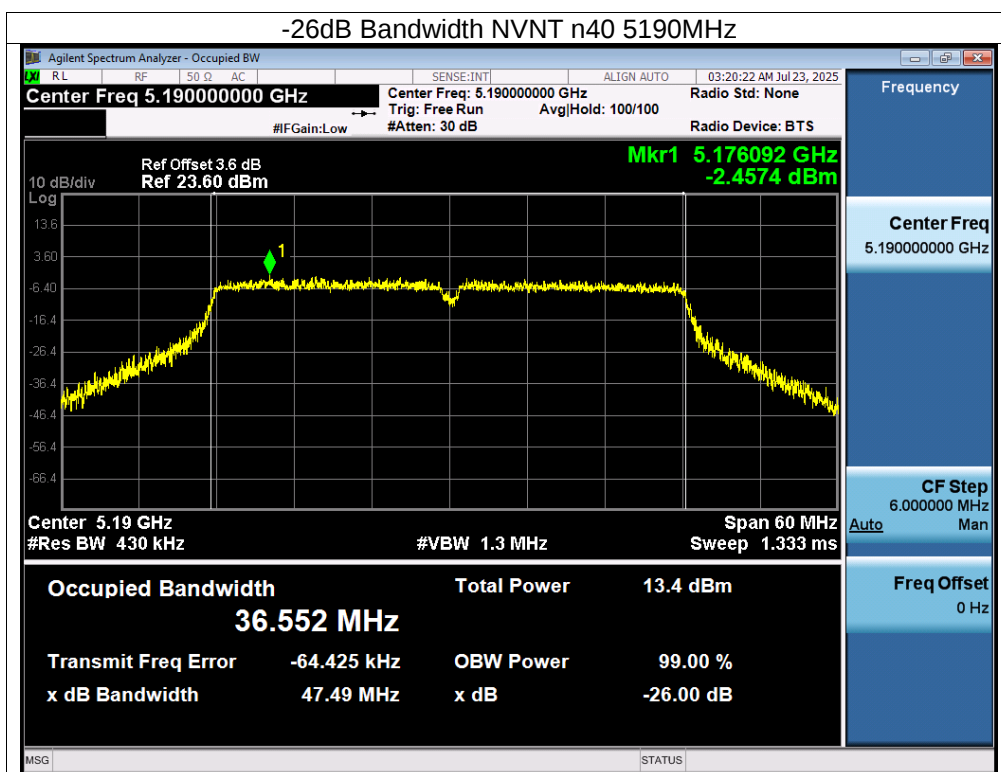
Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	99% OBW (MHz)
NVNT	a	5180	23.930	16.733
NVNT	a	5200	24.181	16.743
NVNT	a	5240	24.308	16.755
NVNT	n20	5180	24.475	17.906
NVNT	n20	5200	24.327	17.931
NVNT	n20	5240	24.700	17.939
NVNT	n40	5190	47.491	36.507
NVNT	n40	5230	47.341	36.529
NVNT	ac20	5180	24.415	17.924
NVNT	ac20	5200	25.318	17.984
NVNT	ac20	5240	25.038	17.954
NVNT	ac40	5190	48.156	36.427
NVNT	ax40	5230	47.487	36.506
NVNT	ax20	5180	24.444	19.110
NVNT	ax20	5200	25.392	19.116
NVNT	ax20	5240	24.892	19.187
NVNT	ax40	5190	45.562	37.919
NVNT	ax40	5230	44.568	37.913

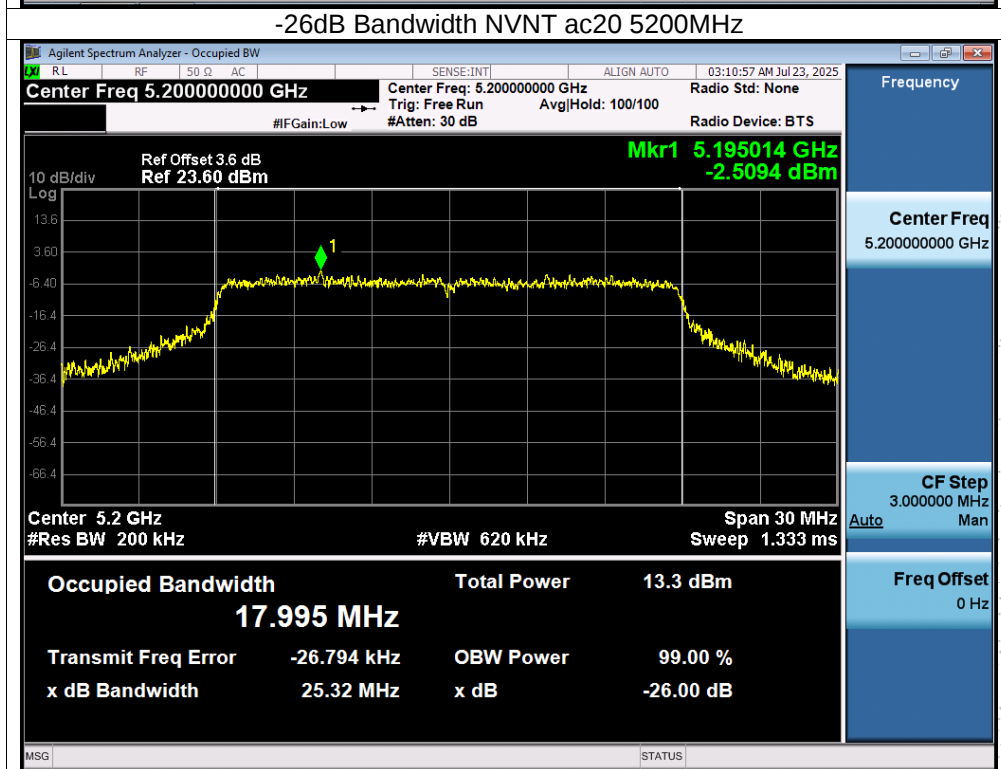
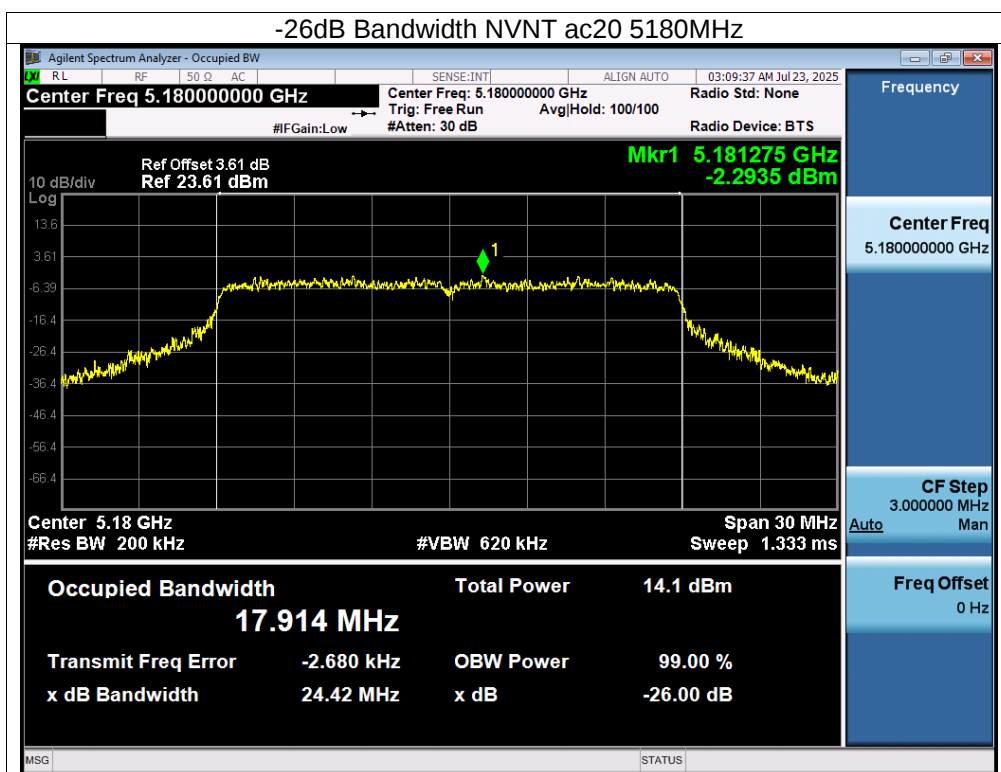
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