TEST REPORT

Report No.:	BCTC2501387884-4E
Applicant:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Product Name:	Smart Phone
Test Model:	C60
Tested Date:	2025-01-03 to 2025-02-25
Issued Date:	2025-02-26

Shenzhen BCTC Testing Co., Ltd.

FCC ID: 2ANMU-24153

Product Name:	Smart Phone
Trademark:	OUKITEL
Model/Type reference:	C60 C60 E, C60 S, C60 Pro, C60 Plus, C60 Ultra, C60 GT
Prepared For:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA, SHENZHEN, 518XXX, China
Manufacturer:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA, SHENZHEN, 518XXX, China
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:	2025-01-03
Sample tested Date:	2025-01-03 to 2025-02-25
Issue Date:	2025-02-26
Report No.:	BCTC2501387884-4E
Test Standards:	FCC Part15 15.407 ANSI C63.10-2013 KDB 789033 D02 v02r01
Test Results:	PASS

Tested by:

Brave Zeng/ Project Handler

Approved by:

Zero Zhou/Reviewer

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(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2501387884-4E	2025-02-26	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℃

4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	C60 C60 E, C60 S, C60 Pro, C60 Plus, C60 Ultra, C60 GT
Model differences:	All the model are the same circuit and RF module, except model names.
Hardware Version:	SC6030_U_MB_V1.0.1
Software Version:	OUKITEL_C60_EEA_V02
IEEE 802.11 WLAN Mode Supported	802.11a/n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11a/n(HT20); 5190-5230MHz for 802.11n(HT40); 5210MHz for 802.11 ac80; 5745-5825 MHz for 802.11a/n(HT20); 5755-5795 MHz for 802.11n(HT40); 5775MHz for 802.11 ac80;
Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;
Number Of Channel	4 channels for 802.11a/n20 in the 5180-5240MHz band ; 2 channels for 802.11 n40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80 in the 5210MHz band ; 5 channels for 802.11a/n20 in the 5745-5825MHz band ; 2 channels for 802.11 n40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band
Antenna installation:	Internal antenna
Antenna Gain:	0.82 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:	DC 9V from Adapter/ DC 3.9V from battery
Adapter Information:	Model: HJ-PD18W-US Input: 100-240V~ 50/60Hz 0.6A Output: 5.0V ⎓ 3.0A 15.0W OR 9.0V ⎓ 2.0A 18.0W OR 12.0V ⎓ 1.5A 18.0W MAX

4.2 Test Setup Configuration

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

4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Smart Phone	OUKITEL	C60	N/A	EUT
E-2	Adapter	N/A	HJ-PD18W-US	N/A	Auxiliary
E-3	TF card	SanDisk	32G	---	---

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) Carrier Frequency Channel							
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
36	5180	44	5220	-	-	-	-
40	5200	48	5240	-	-	-	-

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

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

5.8G

802.11a/n/ac(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 Carrier Frequency Channel					
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
151	5755	159	5795	-	-

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

4.5 Test Mode

To investigate the maximum EMI emission characteristics 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 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/CH 155
Mode 4	Link

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

4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	CMD		
Parameters	DEF	DEF	DEF

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.
FCC Test Firm Registration Number: 712850
A2LA certificate registration number is: CN1212
ISED Registered No.: 23583
ISED CAB identifier: CN0017

5.2 Test Instrument Used

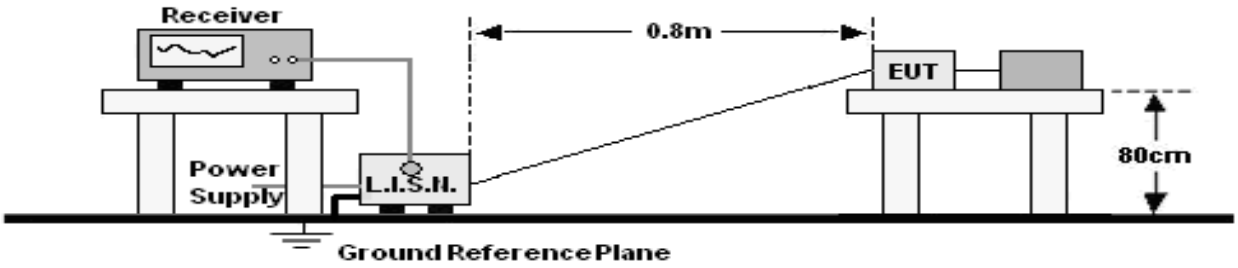
Conducted Emissions Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 16, 2024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

RF Conducted Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Power meter	Keysight	E4419	\	May 16, 2024	May 15, 2025
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Communication test set	R&S	CMW500	126173	May 16, 2024	May 15, 2025
Radio frequency control box	MAIWEI	MW200-RFCB	\	\	\
Software	MAIWEI	MTS 8200	\	\	\

Radiated Emissions Test (966 Chamber01)					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
Receiver	R&S	ESRP	101154	May 16, 2024	May 15, 2025
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 16, 2024	May 15, 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 21, 2024	May 20, 2025
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025
Amplifier	SKET	LAPA_01G18G-45dB	SK2021040901	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18GHz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 16, 2024	May 15, 2025
Horn Antenna(18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Communication test set	R&S	CMW500	126173	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: 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

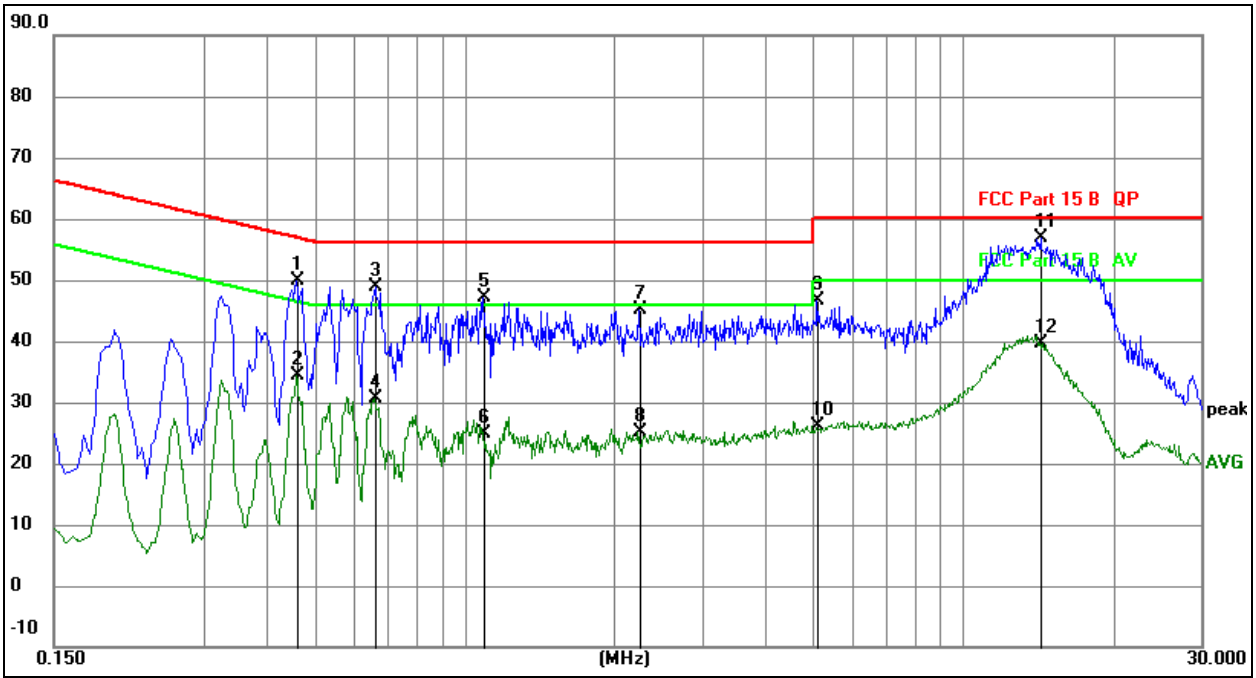
a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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.
c. 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

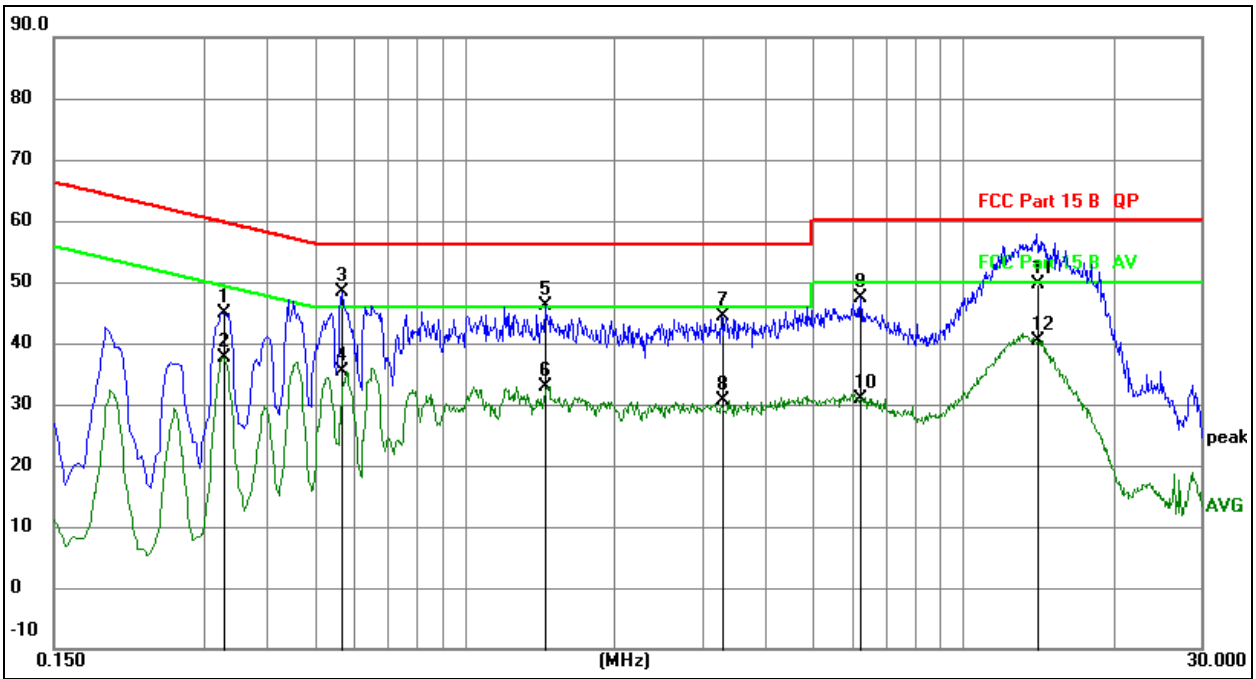
Temperature:	23.8 ℃	Relative Humidity:	46%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



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.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.4605	29.76	20.08	49.84	56.68	-6.84	QP
2		0.4605	14.36	20.08	34.44	46.68	-12.24	AVG
3		0.6629	28.90	20.09	48.99	56.00	-7.01	QP
4		0.6629	10.64	20.09	30.73	46.00	-15.27	AVG
5		1.0904	26.94	20.09	47.03	56.00	-8.97	QP
6		1.0904	4.78	20.09	24.87	46.00	-21.13	AVG
7		2.2468	25.00	20.10	45.10	56.00	-10.90	QP
8		2.2468	4.92	20.10	25.02	46.00	-20.98	AVG
9		5.1090	26.53	20.15	46.68	60.00	-13.32	QP
10		5.1090	6.05	20.15	26.20	50.00	-23.80	AVG
11	*	14.2935	36.49	20.29	56.78	60.00	-3.22	QP
12		14.2935	19.32	20.29	39.61	50.00	-10.39	AVG

Temperature:	23.8 ℃	Relative Humidity:	46%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



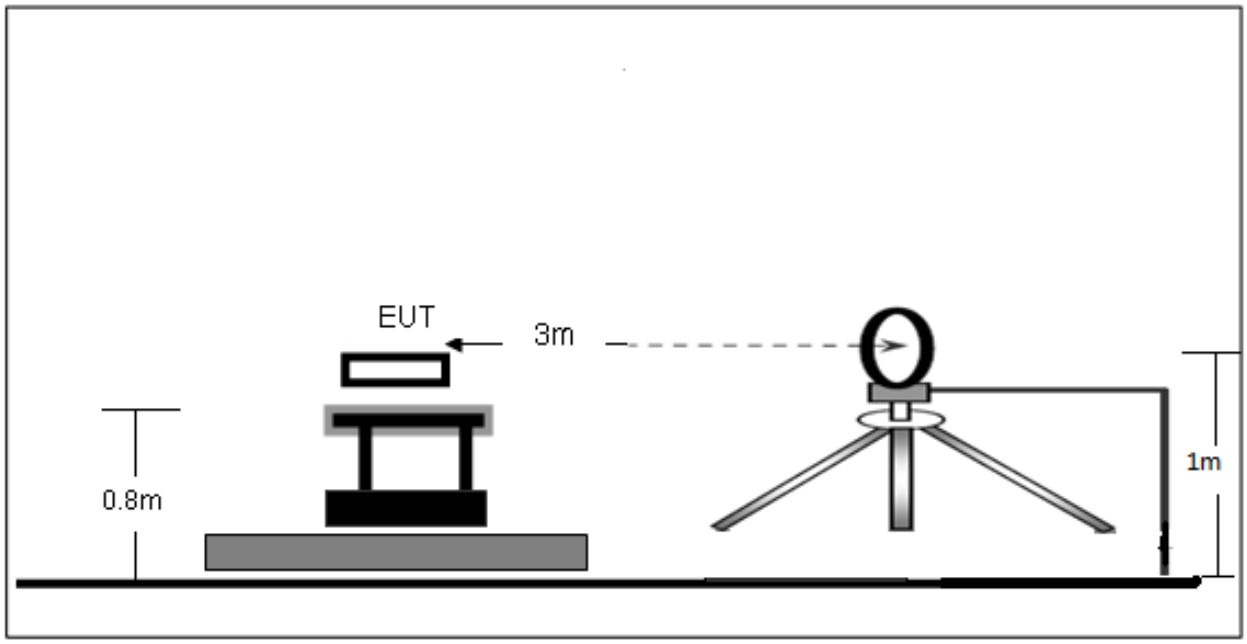
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over1 Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.3286	24.86	20.07	44.93	59.49	-14.56	QP
2		0.3286	17.62	20.07	37.69	49.49	-11.80	AVG
3	*	0.5670	28.26	20.08	48.34	56.00	-7.66	QP
4		0.5670	15.22	20.08	35.30	46.00	-10.70	AVG
5		1.4485	26.06	20.09	46.15	56.00	-9.85	QP
6		1.4485	12.86	20.09	32.95	46.00	-13.05	AVG
7		3.2756	24.35	20.13	44.48	56.00	-11.52	QP
8		3.2756	10.46	20.13	30.59	46.00	-15.41	AVG
9		6.2189	27.18	20.15	47.33	60.00	-12.67	QP
10		6.2189	10.85	20.15	31.00	50.00	-19.00	AVG
11		14.1040	29.42	20.28	49.70	60.00	-10.30	QP
12		14.1040	20.12	20.28	40.40	50.00	-9.60	AVG

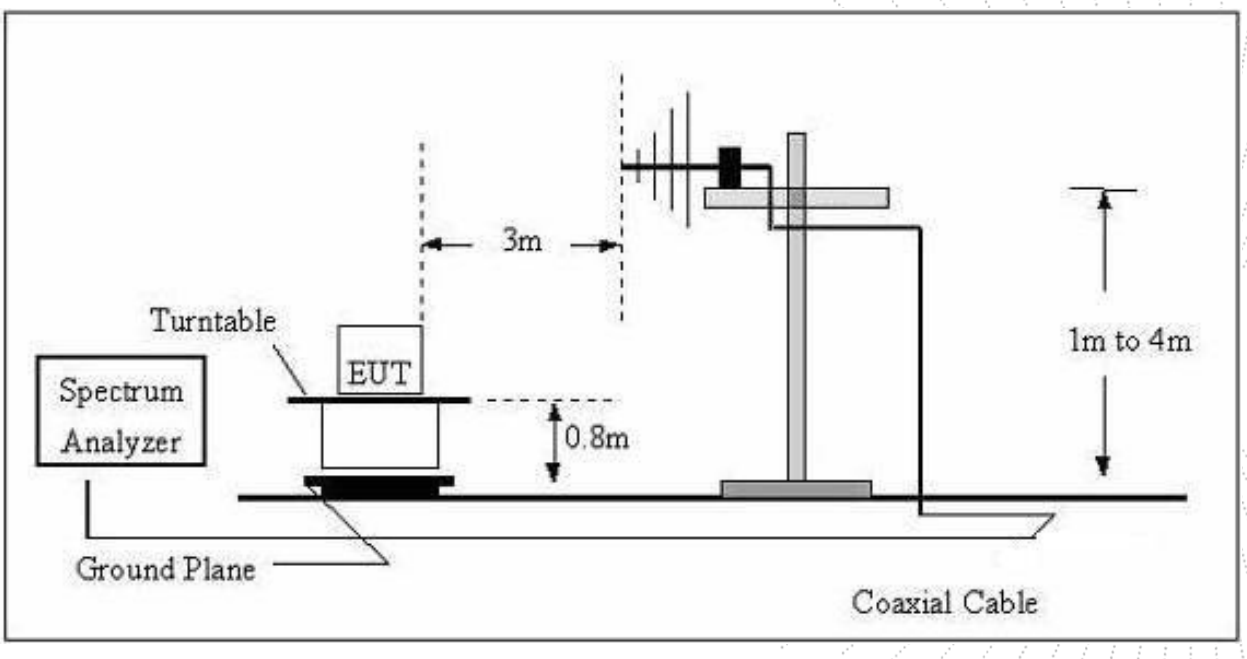
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

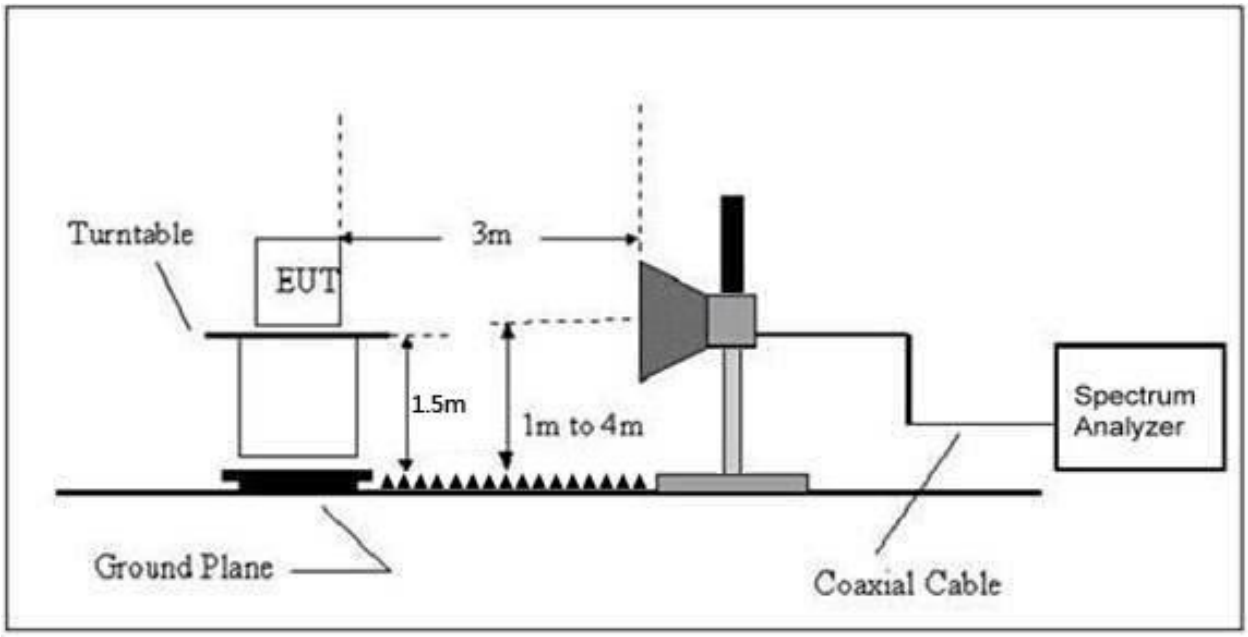
（A）Radiated Emission Test-Up Frequency Below 30MHz



（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	Field Strength	Distance	Field Strength Limit at 3m Distance	
(MHz)	uV/m	(m)	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

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

Note:

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

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

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

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/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

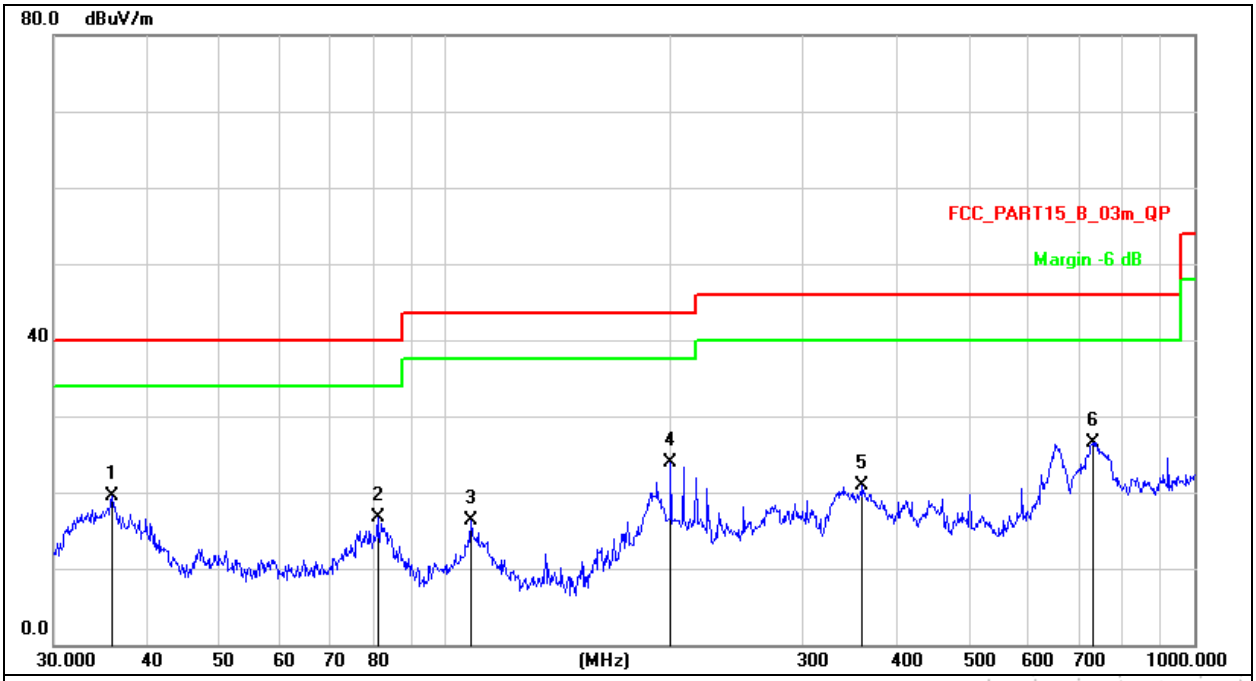
Temperature:	23.1 ℃	Relative Humidity:	42%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 4	Polarization :	--

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

Note:
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
Distance extrapolation factor =40 log (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

Between 30MHz – 1GHz

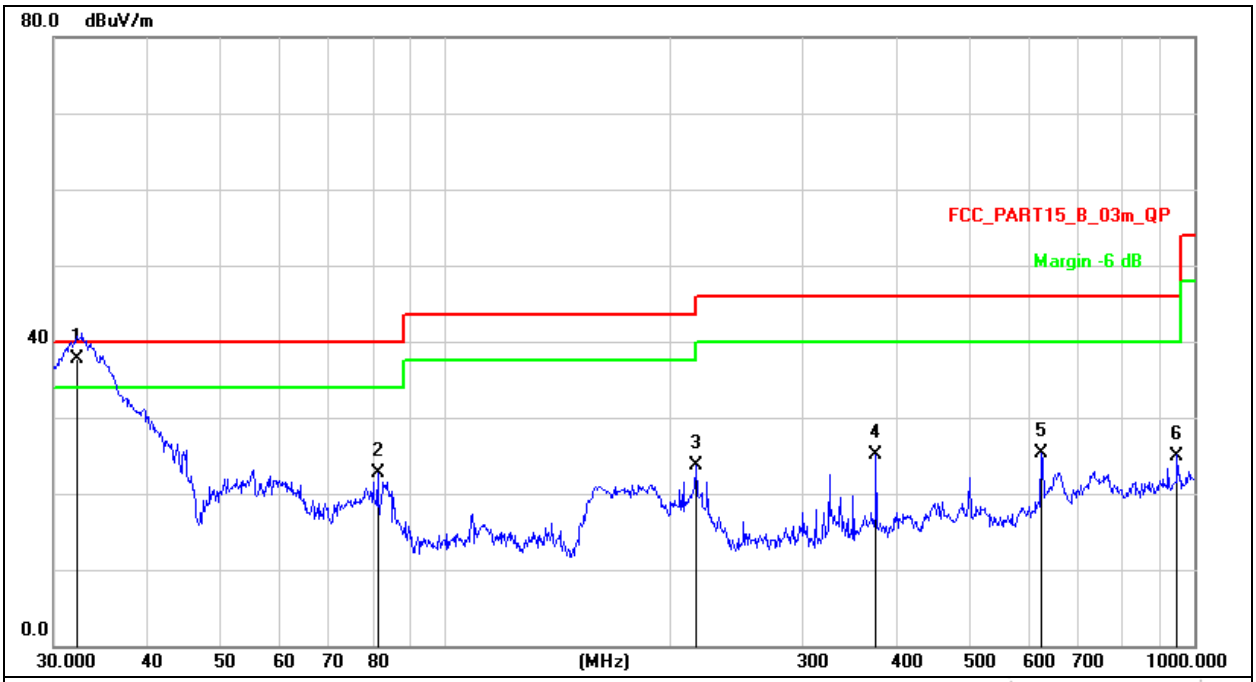
Temperature:	23.1 ℃	Relative Humidity:	42%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



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	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		35.8746	35.09	-15.52	19.57	40.00	-20.43	QP
2		81.2117	36.17	-19.47	16.70	40.00	-23.30	QP
3		108.2667	32.88	-16.51	16.37	43.50	-27.13	QP
4		199.9856	39.58	-15.72	23.86	43.50	-19.64	QP
5		360.4476	32.23	-11.35	20.88	46.00	-25.12	QP
6	*	731.9203	31.73	-5.25	26.48	46.00	-19.52	QP

Temperature:	23.1 ℃	Relative Humidity:	42%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	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	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	32.2860	53.91	-16.21	37.70	40.00	-2.30	QP
2		81.2117	42.17	-19.47	22.70	40.00	-17.30	QP
3		216.0240	38.99	-15.26	23.73	46.00	-22.27	QP
4		375.9384	36.27	-11.15	25.12	46.00	-20.88	QP
5		625.0780	31.87	-6.59	25.28	46.00	-20.72	QP
6		948.7609	27.94	-2.94	25.00	46.00	-21.00	QP

Between 1GHz – 40GHz

Test Mode:	TX(5.1G) - 802.11a

Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure-ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.173	73.52	-20.73	52.79	68.2	-15.41	PK
Vertical	4434.173	59.13	-20.73	38.40	54	-15.60	AV
Vertical	10360.154	64.85	-9.36	55.49	68.2	-12.71	PK
Vertical	10360.154	49.94	-9.36	40.58	54	-13.42	AV
Vertical	15540.027	60.08	-7.84	52.24	74	-21.76	PK
Vertical	15540.027	49.63	-7.84	41.79	54	-12.21	AV
Horizontal	4434.199	72.15	-20.73	51.42	68.2	-16.78	PK
Horizontal	4434.199	59.56	-20.73	38.83	54	-15.17	AV
Horizontal	10360.061	62.25	-9.36	52.89	68.2	-15.31	PK
Horizontal	10360.061	49.87	-9.36	40.51	54	-13.49	AV
Horizontal	15540.051	61.08	-7.84	53.24	74	-20.76	PK
Horizontal	15540.051	49.11	-7.84	41.27	54	-12.73	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.061	71.45	-20.42	51.04	74	-22.96	PK
Vertical	4592.061	59.99	-20.42	39.57	54	-14.43	AV
Vertical	10400.105	62.31	-9.30	53.01	68.2	-15.19	PK
Vertical	10400.105	49.23	-9.30	39.93	54	-14.07	AV
Vertical	15600.045	64.21	-7.82	56.39	74	-17.61	PK
Vertical	15600.045	49.54	-7.82	41.72	54	-12.28	AV
Horizontal	4592.096	72.26	-20.42	51.84	74	-22.16	PK
Horizontal	4592.096	59.15	-20.42	38.73	54	-15.27	AV
Horizontal	10400.111	60.65	-9.30	51.35	68.2	-16.85	PK
Horizontal	10400.111	49.22	-9.30	39.92	54	-14.08	AV
Horizontal	15600.145	61.31	-7.82	53.49	74	-20.51	PK
Horizontal	15600.145	49.66	-7.82	41.84	54	-12.16	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.080	73.19	-20.12	53.07	74	-20.93	PK
Vertical	4739.080	59.43	-20.12	39.31	54	-14.69	AV
Vertical	10480.131	62.80	-9.18	53.62	68.2	-14.58	PK
Vertical	10480.131	49.45	-9.18	40.27	54	-13.73	AV
Vertical	15720.102	64.80	-7.78	57.02	74	-16.98	PK
Vertical	15720.102	49.73	-7.78	41.95	54	-12.05	AV
Horizontal	4739.160	72.85	-20.12	52.73	74	-21.27	PK
Horizontal	4739.160	59.81	-20.12	39.69	54	-14.31	AV
Horizontal	10480.116	60.39	-9.18	51.21	68.2	-16.99	PK
Horizontal	10480.116	49.33	-9.18	40.15	54	-13.85	AV
Horizontal	15720.000	64.20	-7.78	56.42	74	-17.58	PK
Horizontal	15720.000	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-HT20

Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure-ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.043	72.77	-20.73	52.03	68.2	-16.17	PK
Vertical	4434.043	59.51	-20.73	38.78	54	-15.22	AV
Vertical	10360.115	63.48	-9.36	54.12	68.2	-14.08	PK
Vertical	10360.115	49.48	-9.36	40.12	54	-13.88	AV
Vertical	15540.157	64.15	-7.84	56.31	74	-17.69	PK
Vertical	15540.157	49.20	-7.84	41.36	54	-12.64	AV
Horizontal	4434.187	70.30	-20.73	49.57	68.2	-18.63	PK
Horizontal	4434.187	59.92	-20.73	39.19	54	-14.81	AV
Horizontal	10360.154	64.08	-9.36	54.72	68.2	-13.48	PK
Horizontal	10360.154	49.30	-9.36	39.94	54	-14.06	AV
Horizontal	15540.115	63.98	-7.84	56.14	74	-17.86	PK
Horizontal	15540.115	49.44	-7.84	41.60	54	-12.40	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.057	72.18	-20.42	51.77	74	-22.23	PK
Vertical	4592.057	59.13	-20.42	38.72	54	-15.28	AV
Vertical	10400.073	63.91	-9.30	54.61	68.2	-13.59	PK
Vertical	10400.073	49.33	-9.30	40.03	54	-13.97	AV
Vertical	15600.156	62.07	-7.82	54.25	74	-19.75	PK
Vertical	15600.156	49.10	-7.82	41.28	54	-12.72	AV
Horizontal	4592.169	74.24	-20.42	53.82	74	-20.18	PK
Horizontal	4592.169	59.66	-20.42	39.25	54	-14.75	AV
Horizontal	10400.121	61.97	-9.30	52.67	68.2	-15.53	PK
Horizontal	10400.121	49.44	-9.30	40.14	54	-13.86	AV
Horizontal	15600.159	62.55	-7.82	54.73	74	-19.27	PK
Horizontal	15600.159	49.26	-7.82	41.44	54	-12.56	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.018	73.31	-20.12	53.18	74	-20.82	PK
Vertical	4739.018	59.68	-20.12	39.56	54	-14.44	AV
Vertical	10480.004	64.45	-9.18	55.27	68.2	-12.93	PK
Vertical	10480.004	49.10	-9.18	39.92	54	-14.08	AV
Vertical	15720.059	60.62	-7.78	52.84	74	-21.16	PK
Vertical	15720.059	49.23	-7.78	41.45	54	-12.55	AV
Horizontal	4739.191	74.66	-20.12	54.54	74	-19.46	PK
Horizontal	4739.191	59.53	-20.12	39.41	54	-14.59	AV
Horizontal	10480.083	64.84	-9.18	55.66	68.2	-12.54	PK
Horizontal	10480.083	49.87	-9.18	40.69	54	-13.31	AV
Horizontal	15720.024	63.71	-7.78	55.93	74	-18.07	PK
Horizontal	15720.024	49.15	-7.78	41.37	54	-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-HT40

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.060	70.28	-20.73	49.55	68.2	-18.65	PK
Vertical	4434.060	59.63	-20.73	38.90	54	-15.10	AV
Vertical	10380.162	62.84	-9.33	53.51	68.2	-14.69	PK
Vertical	10380.162	49.89	-9.33	40.56	54	-13.44	AV
Vertical	15570.050	60.32	-7.83	52.49	74	-21.51	PK
Vertical	15570.050	49.76	-7.83	41.93	54	-12.07	AV
Horizontal	4434.146	71.70	-20.73	50.97	74	-23.03	PK
Horizontal	4434.146	59.27	-20.73	38.53	54	-15.47	AV
Horizontal	10380.079	60.52	-9.33	51.19	68.2	-17.01	PK
Horizontal	10380.079	49.75	-9.33	40.42	54	-13.58	AV
Horizontal	15570.083	60.42	-7.83	52.59	74	-21.41	PK
Horizontal	15570.083	49.81	-7.83	41.98	54	-12.02	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.084	72.21	-20.12	52.08	68.2	-16.12	PK
Vertical	4739.084	59.55	-20.12	39.43	54	-14.57	AV
Vertical	10460.058	61.32	-9.21	52.11	68.2	-16.09	PK
Vertical	10460.058	49.54	-9.21	40.33	54	-13.67	AV
Vertical	15690.074	62.39	-7.79	54.60	74	-19.40	PK
Vertical	15690.074	49.52	-7.79	41.73	54	-12.27	AV
Horizontal	4739.117	71.97	-20.12	51.85	68.2	-16.35	PK
Horizontal	4739.117	59.65	-20.12	39.53	54	-14.47	AV
Horizontal	10460.120	60.72	-9.21	51.51	68.2	-16.69	PK
Horizontal	10460.120	49.52	-9.21	40.31	54	-13.69	AV
Horizontal	15690.154	64.66	-7.79	56.87	74	-17.13	PK
Horizontal	15690.154	49.09	-7.79	41.30	54	-12.70	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

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.033	72.88	-20.73	52.15	68.2	-16.05	PK
Vertical	4434.033	59.67	-20.73	38.94	54	-15.06	AV
Vertical	10360.044	62.14	-9.36	52.78	68.2	-15.42	PK
Vertical	10360.044	49.99	-9.36	40.63	54	-13.37	AV
Vertical	15540.080	60.40	-7.84	52.56	74	-21.44	PK
Vertical	15540.080	49.73	-7.84	41.89	54	-12.11	AV
Horizontal	4434.137	70.83	-20.73	50.09	68.2	-18.11	PK
Horizontal	4434.137	59.51	-20.73	38.78	54	-15.22	AV
Horizontal	10360.049	63.36	-9.36	54.00	68.2	-14.20	PK
Horizontal	10360.049	49.85	-9.36	40.49	54	-13.51	AV
Horizontal	15540.082	62.01	-7.84	54.17	74	-19.83	PK
Horizontal	15540.082	49.90	-7.84	42.06	54	-11.94	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.170	72.68	-20.42	52.27	74	-21.73	PK
Vertical	4592.170	59.92	-20.42	39.50	54	-14.50	AV
Vertical	10400.148	62.86	-9.30	53.56	68.2	-14.64	PK
Vertical	10400.148	49.58	-9.30	40.28	54	-13.72	AV
Vertical	15600.164	64.25	-7.82	56.43	74	-17.57	PK
Vertical	15600.164	49.14	-7.82	41.32	54	-12.68	AV
Horizontal	4592.018	74.43	-20.42	54.01	74	-19.99	PK
Horizontal	4592.018	59.90	-20.42	39.49	54	-14.51	AV
Horizontal	10400.156	62.69	-9.30	53.39	68.2	-14.81	PK
Horizontal	10400.156	49.76	-9.30	40.46	54	-13.54	AV
Horizontal	15600.078	62.21	-7.82	54.39	74	-19.61	PK
Horizontal	15600.078	49.76	-7.82	41.94	54	-12.06	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.187	71.55	-20.12	51.43	74	-22.57	PK
Vertical	4739.187	59.60	-20.12	39.47	54	-14.53	AV
Vertical	10480.057	63.65	-9.18	54.47	68.2	-13.73	PK
Vertical	10480.057	49.23	-9.18	40.05	54	-13.95	AV
Vertical	15720.102	64.40	-7.78	56.62	74	-17.38	PK
Vertical	15720.102	49.46	-7.78	41.68	54	-12.32	AV
Horizontal	4739.163	74.02	-20.12	53.90	74	-20.10	PK
Horizontal	4739.163	59.54	-20.12	39.42	54	-14.58	AV
Horizontal	10480.020	62.12	-9.18	52.94	68.2	-15.26	PK
Horizontal	10480.020	49.17	-9.18	39.99	54	-14.01	AV
Horizontal	15720.068	62.01	-7.78	54.23	74	-19.77	PK
Horizontal	15720.068	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) - 802.11ac-HT40

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.145	73.32	-20.73	52.59	68.2	-15.61	PK
Vertical	4434.145	59.04	-20.73	38.31	54	-15.69	AV
Vertical	10380.130	62.12	-9.33	52.79	68.2	-15.41	PK
Vertical	10380.130	49.97	-9.33	40.64	54	-13.36	AV
Vertical	15570.037	64.76	-7.83	56.93	74	-17.07	PK
Vertical	15570.037	49.63	-7.83	41.80	54	-12.20	AV
Horizontal	4434.153	71.52	-20.73	50.79	74	-23.21	PK
Horizontal	4434.153	59.50	-20.73	38.77	54	-15.23	AV
Horizontal	10380.181	62.27	-9.33	52.94	68.2	-15.26	PK
Horizontal	10380.181	49.32	-9.33	39.99	54	-14.01	AV
Horizontal	15570.065	63.50	-7.83	55.67	74	-18.33	PK
Horizontal	15570.065	49.69	-7.83	41.86	54	-12.14	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.079	74.27	-20.12	54.15	68.2	-14.05	PK
Vertical	4739.079	59.17	-20.12	39.05	54	-14.95	AV
Vertical	10460.167	61.63	-9.21	52.42	68.2	-15.78	PK
Vertical	10460.167	49.87	-9.21	40.66	54	-13.34	AV
Vertical	15690.133	64.71	-7.79	56.92	74	-17.08	PK
Vertical	15690.133	49.70	-7.79	41.91	54	-12.09	AV
Horizontal	4739.007	74.44	-20.12	54.32	68.2	-13.88	PK
Horizontal	4739.007	59.84	-20.12	39.72	54	-14.28	AV
Horizontal	10460.120	63.43	-9.21	54.22	68.2	-13.98	PK
Horizontal	10460.120	49.75	-9.21	40.54	54	-13.46	AV
Horizontal	15690.146	61.88	-7.79	54.09	74	-19.91	PK
Horizontal	15690.146	49.68	-7.79	41.89	54	-12.11	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 80

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5210 MHz)-Above 1G							
Vertical	4434.038	70.50	-20.73	49.77	68.2	-18.43	PK
Vertical	4434.038	59.28	-20.73	38.54	54	-15.46	AV
Vertical	10420.076	64.57	-9.27	55.30	68.2	-12.90	PK
Vertical	10420.076	49.33	-9.27	40.06	54	-13.94	AV
Vertical	15630.055	62.35	-7.81	54.54	74	-19.46	PK
Vertical	15630.055	49.28	-7.81	41.47	54	-12.53	AV
Horizontal	4434.099	72.75	-20.73	52.02	68.2	-16.18	PK
Horizontal	4434.099	59.55	-20.73	38.82	54	-15.18	AV
Horizontal	10420.049	41.55	9.27	50.82	68.2	-17.38	PK
Horizontal	10420.049	29.69	9.27	38.96	54	-15.04	AV
Horizontal	15630.104	62.97	-7.81	55.16	74	-18.84	PK
Horizontal	15630.104	49.44	-7.81	41.63	54	-12.37	AV

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

Test Mode:	TX (5.8G) -- 802.11a

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.150	72.66	-20.24	52.42	74	-21.58	PK
Vertical	4679.150	59.27	-20.24	39.03	54	-14.97	AV
Vertical	11490.159	64.42	-8.79	55.63	68.2	-12.57	PK
Vertical	11490.159	49.18	-8.79	40.39	54	-13.61	AV
Vertical	17235.007	59.56	-3.18	56.38	68.2	-11.82	PK
Vertical	17235.007	44.69	-3.18	41.51	54	-12.49	AV
Horizontal	4679.093	71.33	-20.73	50.60	74	-23.40	PK
Horizontal	4679.093	59.65	-20.73	38.92	54	-15.08	AV
Horizontal	11490.167	62.36	-8.79	53.57	68.2	-14.63	PK
Horizontal	11490.167	49.62	-8.79	40.83	54	-13.17	AV
Horizontal	17235.144	59.81	-3.18	56.63	68.2	-11.57	PK
Horizontal	17235.144	44.18	-3.18	41.00	54	-13.00	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.148	71.71	-20.42	51.30	74	-22.70	PK
Vertical	4592.148	59.70	-20.42	39.28	54	-14.72	AV
Vertical	11570.073	64.69	-8.86	55.83	68.2	-12.37	PK
Vertical	11570.073	49.45	-8.86	40.59	54	-13.41	AV
Vertical	17355.051	58.92	-2.52	56.40	68.2	-11.80	PK
Vertical	17355.051	44.48	-2.52	41.96	54	-12.04	AV
Horizontal	4592.166	72.48	-20.42	52.07	74	-21.93	PK
Horizontal	4592.166	59.24	-20.42	38.83	54	-15.17	AV
Horizontal	11570.169	64.57	-8.86	55.71	68.2	-12.49	PK
Horizontal	11570.169	49.73	-8.86	40.87	54	-13.13	AV
Horizontal	17355.189	55.90	-2.52	53.38	68.2	-14.82	PK
Horizontal	17355.189	44.07	-2.52	41.55	54	-12.45	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.042	74.87	-18.93	55.93	68.2	-12.27	PK
Vertical	6039.042	59.08	-18.93	40.14	54	-13.86	AV
Vertical	11650.114	62.90	-8.92	53.98	74	-20.02	PK
Vertical	11650.114	49.55	-8.92	40.63	54	-13.37	AV
Vertical	17475.090	59.51	-1.86	57.65	68.2	-10.55	PK
Vertical	17475.090	44.86	-1.86	43.00	54	-11.00	AV
Horizontal	6039.033	73.30	-18.93	54.37	68.2	-13.83	PK
Horizontal	6039.033	59.05	-18.93	40.12	54	-13.88	AV
Horizontal	11650.126	61.56	-8.92	52.64	74	-21.36	PK
Horizontal	11650.126	49.14	-8.92	40.22	54	-13.78	AV
Horizontal	17475.193	57.00	-1.86	55.14	68.2	-13.06	PK
Horizontal	17475.193	44.25	-1.86	42.39	54	-11.61	AV

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

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

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.177	74.70	-20.24	54.46	74	-19.54	PK
Vertical	4679.177	59.80	-20.24	39.55	54	-14.45	AV
Vertical	11490.179	62.80	-8.79	54.01	68.2	-14.19	PK
Vertical	11490.179	49.44	-8.79	40.65	54	-13.35	AV
Vertical	17235.028	58.69	-3.18	55.51	68.2	-12.69	PK
Vertical	17235.028	44.15	-3.18	40.97	54	-13.03	AV
Horizontal	4679.079	73.68	-20.24	53.44	74	-20.56	PK
Horizontal	4679.079	59.57	-20.24	39.33	54	-14.67	AV
Horizontal	11490.041	64.78	-8.79	55.99	68.2	-12.21	PK
Horizontal	11490.041	49.62	-8.79	40.83	54	-13.17	AV
Horizontal	17235.096	58.90	-3.18	55.72	68.2	-12.48	PK
Horizontal	17235.096	44.44	-3.18	41.26	54	-12.74	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.126	73.55	-20.42	53.14	74	-20.86	PK
Vertical	4592.126	59.92	-20.42	39.50	54	-14.50	AV
Vertical	11570.099	63.07	-8.86	54.21	68.2	-13.99	PK
Vertical	11570.099	49.02	-8.86	40.16	54	-13.84	AV
Vertical	17355.000	56.63	-2.52	54.11	68.2	-14.09	PK
Vertical	17355.000	44.61	-2.52	42.09	54	-11.91	AV
Horizontal	4592.074	72.03	-20.42	51.62	74	-22.38	PK
Horizontal	4592.074	59.06	-20.42	38.64	54	-15.36	AV
Horizontal	11570.101	63.33	-8.86	54.47	68.2	-13.73	PK
Horizontal	11570.101	49.48	-8.86	40.62	54	-13.38	AV
Horizontal	17355.003	57.74	-2.52	55.22	68.2	-12.98	PK
Horizontal	17355.003	44.06	-2.52	41.54	54	-12.46	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.044	71.06	-18.93	52.12	68.2	-16.08	PK
Vertical	6039.044	59.61	-18.93	40.68	54	-13.32	AV
Vertical	11650.164	60.10	-8.92	51.18	74	-22.82	PK
Vertical	11650.164	49.34	-8.92	40.42	54	-13.58	AV
Vertical	17475.018	57.68	-1.86	55.82	68.2	-12.38	PK
Vertical	17475.018	44.61	-1.86	42.75	54	-11.25	AV
Horizontal	6039.004	72.84	-18.93	53.90	68.2	-14.30	PK
Horizontal	6039.004	59.92	-18.93	40.99	54	-13.01	AV
Horizontal	11650.068	62.66	-8.92	53.74	74	-20.26	PK
Horizontal	11650.068	49.43	-8.92	40.51	54	-13.49	AV
Horizontal	17475.117	59.67	-1.86	57.81	68.2	-10.39	PK
Horizontal	17475.117	44.72	-1.86	42.86	54	-11.14	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

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.093	74.39	-20.24	54.15	74	-19.85	PK
Vertical	4679.093	59.65	-20.24	39.40	54	-14.60	AV
Vertical	11510.036	61.80	-8.81	52.99	74	-21.01	PK
Vertical	11510.036	49.61	-8.81	40.80	54	-13.20	AV
Vertical	17265.196	59.29	-3.01	56.28	68.2	-11.92	PK
Vertical	17265.196	44.82	-3.01	41.81	54	-12.19	AV
Horizontal	4679.160	74.45	-20.24	54.21	74	-19.79	PK
Horizontal	4679.160	59.32	-20.24	39.08	54	-14.92	AV
Horizontal	11510.170	61.03	-8.81	52.22	74	-21.78	PK
Horizontal	11510.170	49.65	-8.81	40.84	54	-13.16	AV
Horizontal	17265.131	55.15	-3.01	52.14	68.2	-16.06	PK
Horizontal	17265.131	44.06	-3.01	41.05	54	-12.95	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.071	71.67	-18.93	52.73	68.2	-15.47	PK
Vertical	6039.071	59.66	-18.93	40.72	54	-13.28	AV
Vertical	11590.058	62.15	-8.87	53.28	74	-20.72	PK
Vertical	11590.058	49.96	-8.87	41.09	54	-12.91	AV
Vertical	17385.006	56.42	-2.35	54.07	68.2	-14.13	PK
Vertical	17385.006	44.53	-2.35	42.18	54	-11.82	AV
Horizontal	6039.039	72.46	-18.93	53.53	68.2	-14.67	PK
Horizontal	6039.039	59.82	-18.93	40.88	54	-13.12	AV
Horizontal	11590.032	63.70	-8.87	54.83	74	-19.17	PK
Horizontal	11590.032	49.64	-8.87	40.77	54	-13.23	AV
Horizontal	17385.105	58.15	-2.35	55.80	68.2	-12.40	PK
Horizontal	17385.105	44.82	-2.35	42.47	54	-11.53	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 (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure-ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.045	74.96	-20.24	54.71	74	-19.29	PK
Vertical	4679.045	59.01	-20.24	38.77	54	-15.23	AV
Vertical	11490.164	60.01	-8.79	51.22	68.2	-16.98	PK
Vertical	11490.164	49.57	-8.79	40.78	54	-13.22	AV
Vertical	17235.094	59.87	-3.18	56.69	68.2	-11.51	PK
Vertical	17235.094	44.67	-3.18	41.49	54	-12.51	AV
Horizontal	4679.076	73.30	-20.24	53.05	74	-20.95	PK
Horizontal	4679.076	59.76	-20.24	39.52	54	-14.48	AV
Horizontal	11490.168	62.63	-8.79	53.84	68.2	-14.36	PK
Horizontal	11490.168	49.82	-8.79	41.03	54	-12.97	AV
Horizontal	17235.138	57.67	-3.18	54.49	68.2	-13.71	PK
Horizontal	17235.138	44.56	-3.18	41.38	54	-12.62	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.149	73.46	-20.42	53.04	74	-20.96	PK
Vertical	4592.149	59.12	-20.42	38.70	54	-15.30	AV
Vertical	11570.057	60.78	-8.86	51.92	68.2	-16.28	PK
Vertical	11570.057	49.66	-8.86	40.80	54	-13.20	AV
Vertical	17355.001	56.64	-2.52	54.12	68.2	-14.08	PK
Vertical	17355.001	44.32	-2.52	41.80	54	-12.20	AV
Horizontal	4592.155	73.96	-20.42	53.54	74	-20.46	PK
Horizontal	4592.155	59.26	-20.42	38.84	54	-15.16	AV
Horizontal	11570.004	64.45	-8.86	55.59	68.2	-12.61	PK
Horizontal	11570.004	49.45	-8.86	40.59	54	-13.41	AV
Horizontal	17355.159	57.80	-2.52	55.28	68.2	-12.92	PK
Horizontal	17355.159	44.20	-2.52	41.68	54	-12.32	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.200	71.63	-18.93	52.70	68.2	-15.50	PK
Vertical	6039.200	59.06	-18.93	40.13	54	-13.87	AV
Vertical	11650.071	64.23	-8.92	55.31	74	-18.69	PK
Vertical	11650.071	49.19	-8.92	40.27	54	-13.73	AV
Vertical	17475.024	56.68	-1.86	54.82	68.2	-13.38	PK
Vertical	17475.024	44.62	-1.86	42.76	54	-11.24	AV
Horizontal	6039.058	70.78	-18.93	51.85	68.2	-16.35	PK
Horizontal	6039.058	59.61	-18.93	40.68	54	-13.32	AV
Horizontal	11650.149	63.01	-8.92	54.09	74	-19.91	PK
Horizontal	11650.149	49.09	-8.92	40.17	54	-13.83	AV
Horizontal	17475.165	55.43	-1.86	53.57	68.2	-14.63	PK
Horizontal	17475.165	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) -- 802.11ac-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	4679.048	74.66	-20.24	54.42	74	-19.58	PK
Vertical	4679.048	59.80	-20.24	39.56	54	-14.44	AV
Vertical	11510.024	64.69	-8.81	55.88	74	-18.12	PK
Vertical	11510.024	49.34	-8.81	40.53	54	-13.47	AV
Vertical	17265.183	57.30	-3.01	54.29	68.2	-13.91	PK
Vertical	17265.183	44.47	-3.01	41.46	54	-12.54	AV
Horizontal	4679.144	72.26	-20.24	52.02	74	-21.98	PK
Horizontal	4679.144	59.14	-20.24	38.89	54	-15.11	AV
Horizontal	11510.024	62.75	-8.81	53.94	74	-20.06	PK
Horizontal	11510.024	49.17	-8.81	40.36	54	-13.64	AV
Horizontal	17265.015	58.02	-3.01	55.01	68.2	-13.19	PK
Horizontal	17265.015	44.46	-3.01	41.45	54	-12.55	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.036	73.50	-18.93	54.57	68.2	-13.63	PK
Vertical	6039.036	59.92	-18.93	40.99	54	-13.01	AV
Vertical	11590.095	61.70	-8.87	52.83	74	-21.17	PK
Vertical	11590.095	49.07	-8.87	40.20	54	-13.80	AV
Vertical	17385.196	58.43	-2.35	56.08	68.2	-12.12	PK
Vertical	17385.196	44.90	-2.35	42.55	54	-11.45	AV
Horizontal	6039.066	70.07	-18.93	51.14	68.2	-17.06	PK
Horizontal	6039.066	59.87	-18.93	40.94	54	-13.06	AV
Horizontal	11590.188	64.82	-8.87	55.95	74	-18.05	PK
Horizontal	11590.188	49.94	-8.87	41.07	54	-12.93	AV
Horizontal	17385.030	56.72	-2.35	54.37	68.2	-13.83	PK
Horizontal	17385.030	44.06	-2.35	41.71	54	-12.29	AV

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

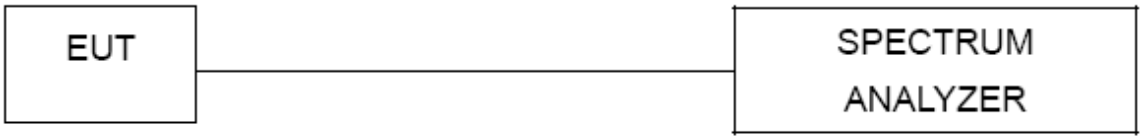
Test Mode :	TX (5.8G) -- 802.11ac 80

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 (5775 MHz)-Above 1G							
Vertical	4679.056	71.59	-20.24	51.35	74	-22.65	PK
Vertical	4679.056	59.37	-20.24	39.13	54	-14.87	AV
Vertical	11550.110	62.35	-8.84	53.51	74	-20.49	PK
Vertical	11550.110	49.56	-8.84	40.72	54	-13.28	AV
Vertical	17325.122	57.70	-2.68	55.02	68.2	-13.18	PK
Vertical	17325.122	44.92	-2.68	42.24	54	-11.76	AV
Horizontal	4679.053	72.50	-20.24	52.26	74	-21.74	PK
Horizontal	4679.053	59.70	-20.24	39.46	54	-14.54	AV
Horizontal	11550.111	62.35	-8.84	53.51	74	-20.49	PK
Horizontal	11550.111	49.31	-8.84	40.47	54	-13.53	AV
Horizontal	17325.162	56.88	-2.68	54.20	68.2	-14.00	PK
Horizontal	17325.162	44.06	-2.68	41.38	54	-12.62	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.

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 ≥ 1/T, where T is defined in section II.B.I.a).
b) Set VBW ≥ 3 RBW.
c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/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 10log(1MHz/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

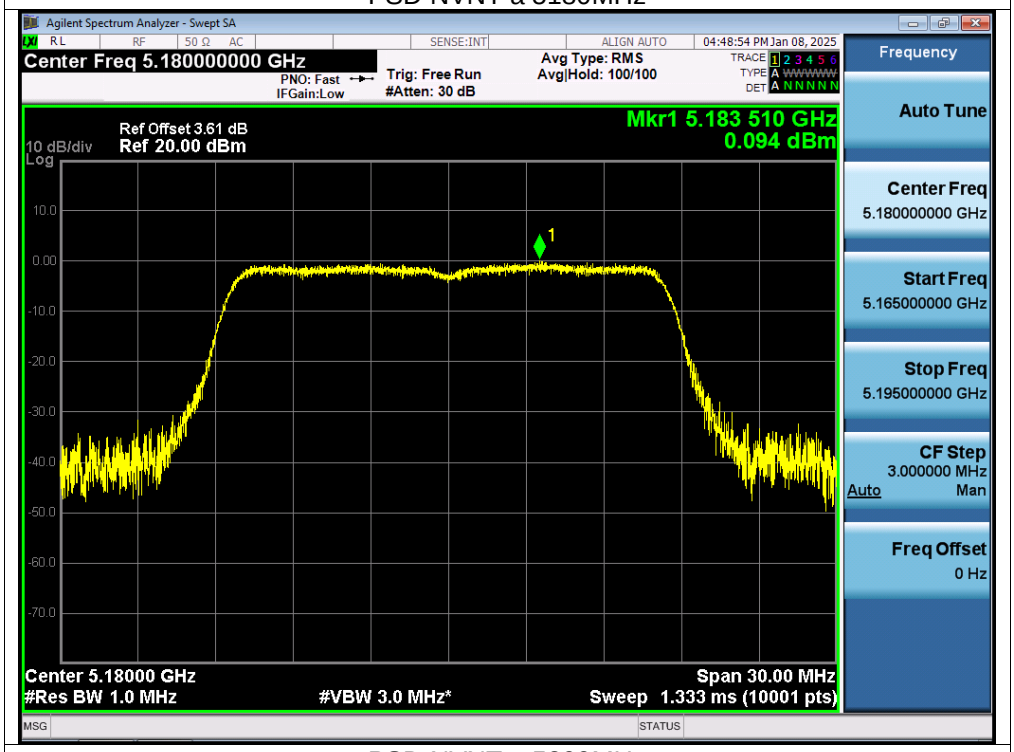
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.9V
Test Mode:	(5180-5240MHz); (5745-5825MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/1MHz)	Limit (dBm/1MHz)	Verdict
NVNT	a	5180	0.09	11	Pass
NVNT	a	5200	-0.77	11	Pass
NVNT	a	5240	-1.09	11	Pass
NVNT	n20	5180	-1.73	11	Pass
NVNT	n20	5200	-2.25	11	Pass
NVNT	n20	5240	-3.05	11	Pass
NVNT	n40	5190	-5.28	11	Pass
NVNT	n40	5230	-6.59	11	Pass
NVNT	ac20	5180	-1.88	11	Pass
NVNT	ac20	5200	-2.1	11	Pass
NVNT	ac20	5240	-2.93	11	Pass
NVNT	ac40	5190	-5	11	Pass
NVNT	ac40	5230	-6.56	11	Pass
NVNT	ac80	5210	-11.44	11	Pass

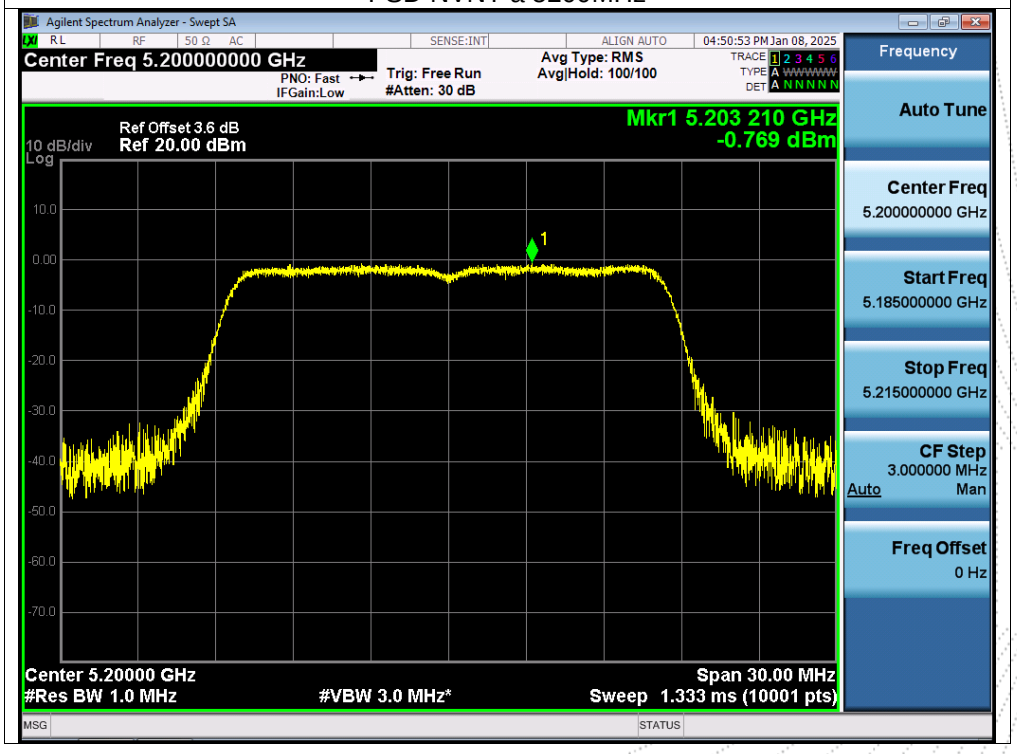
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/510KHz)	Conducted PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	-4.48	-4.566	30	Pass
NVNT	a	5785	-6.13	-6.216	30	Pass
NVNT	a	5825	-7.2	-7.286	30	Pass
NVNT	n20	5745	-6.16	-6.246	30	Pass
NVNT	n20	5785	-7.52	-7.606	30	Pass
NVNT	n20	5825	-8.21	-8.296	30	Pass
NVNT	n40	5755	-9.19	-9.276	30	Pass
NVNT	n40	5795	-10.75	-10.836	30	Pass
NVNT	ac20	5745	-6.3	-6.386	30	Pass
NVNT	ac20	5785	-7.73	-7.816	30	Pass
NVNT	ac20	5825	-8.58	-8.666	30	Pass
NVNT	ac40	5755	-9.12	-9.206	30	Pass
NVNT	ac40	5795	-10.96	-11.046	30	Pass
NVNT	ac80	5775	-13.58	-13.666	30	Pass
Note: Correction Factor = 10log(500KHz/RBW in measurement) =-0.086						

Test Graphs

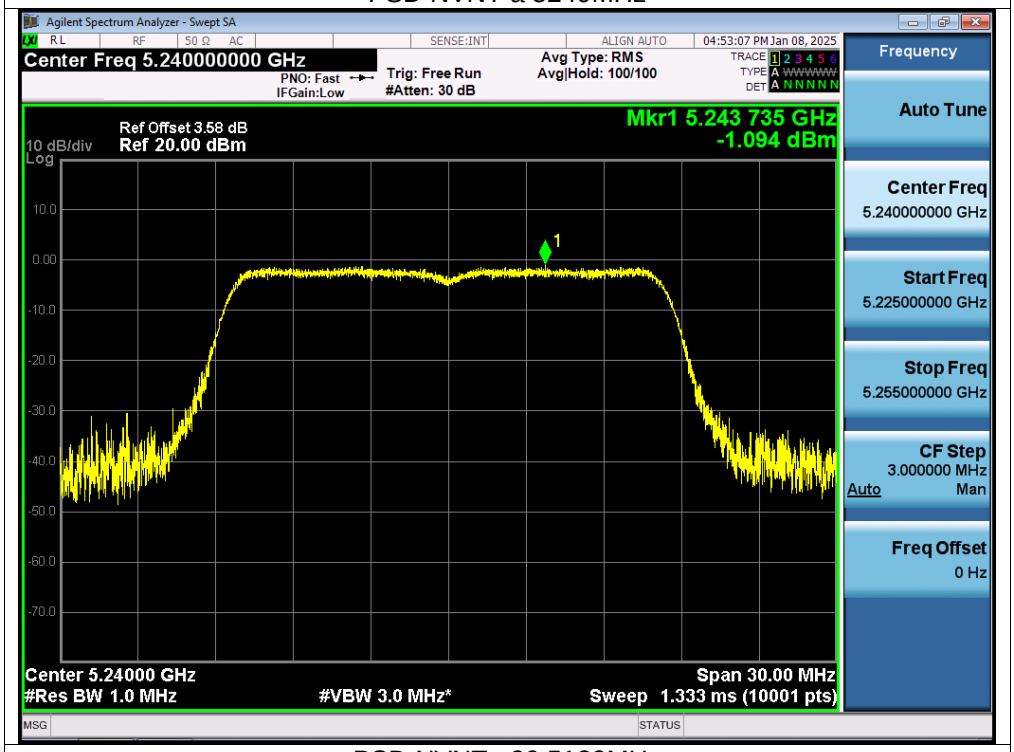
PSD NVNT a 5180MHz



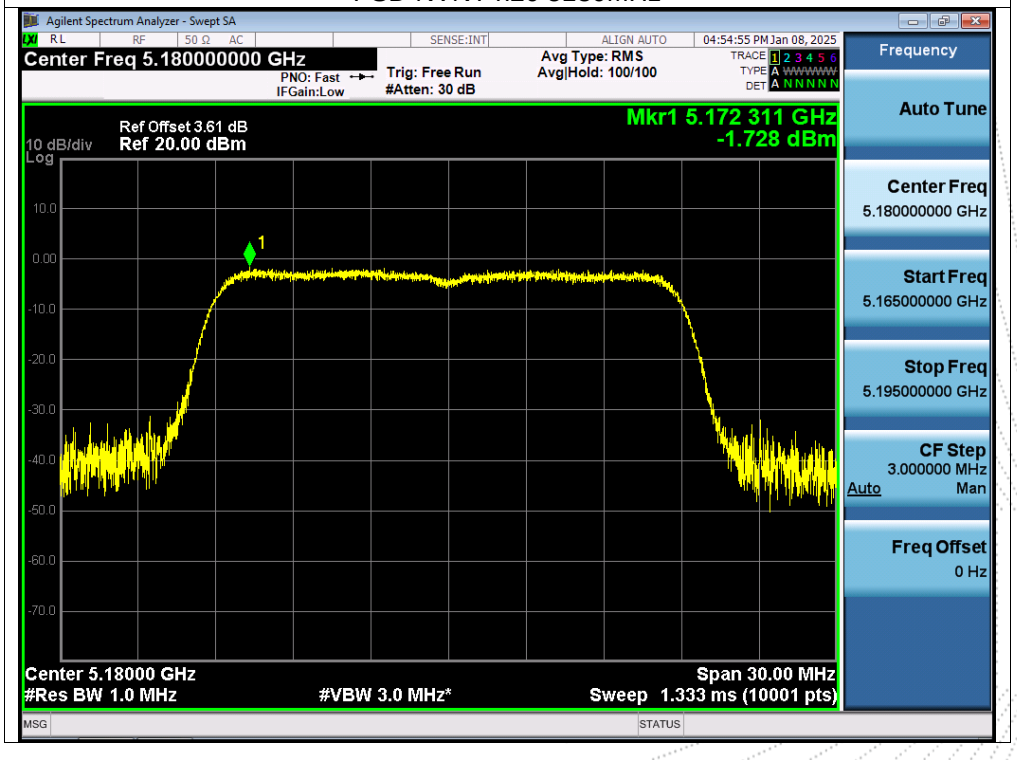
PSD NVNT a 5200MHz



PSD NVNT a 5240MHz



PSD NVNT n20 5180MHz



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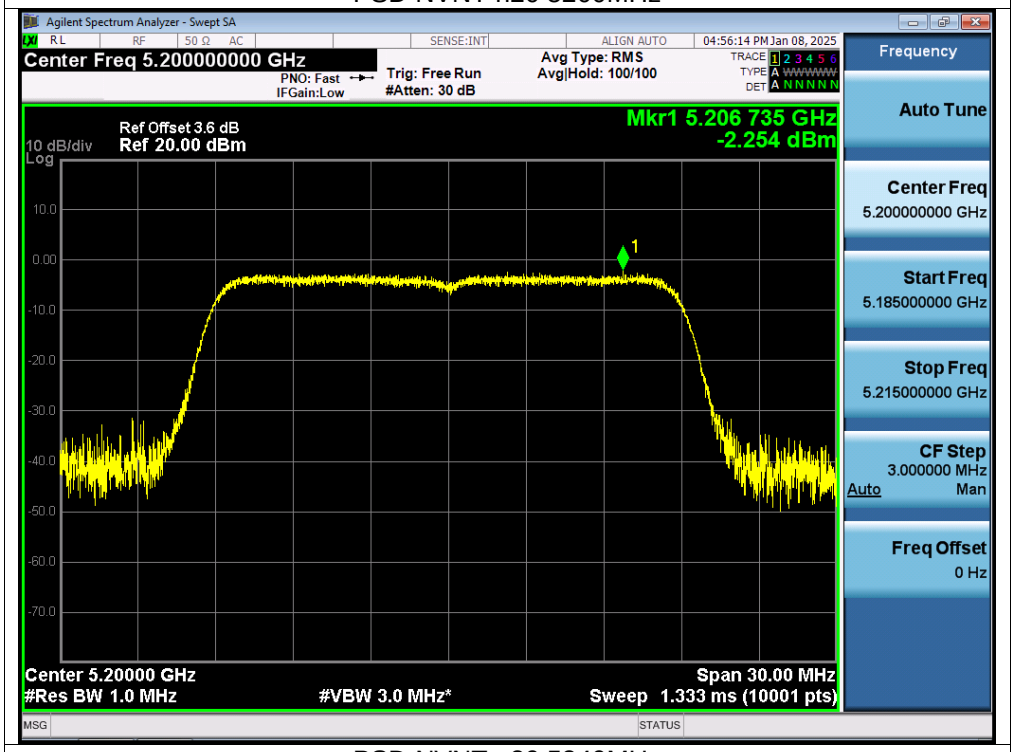
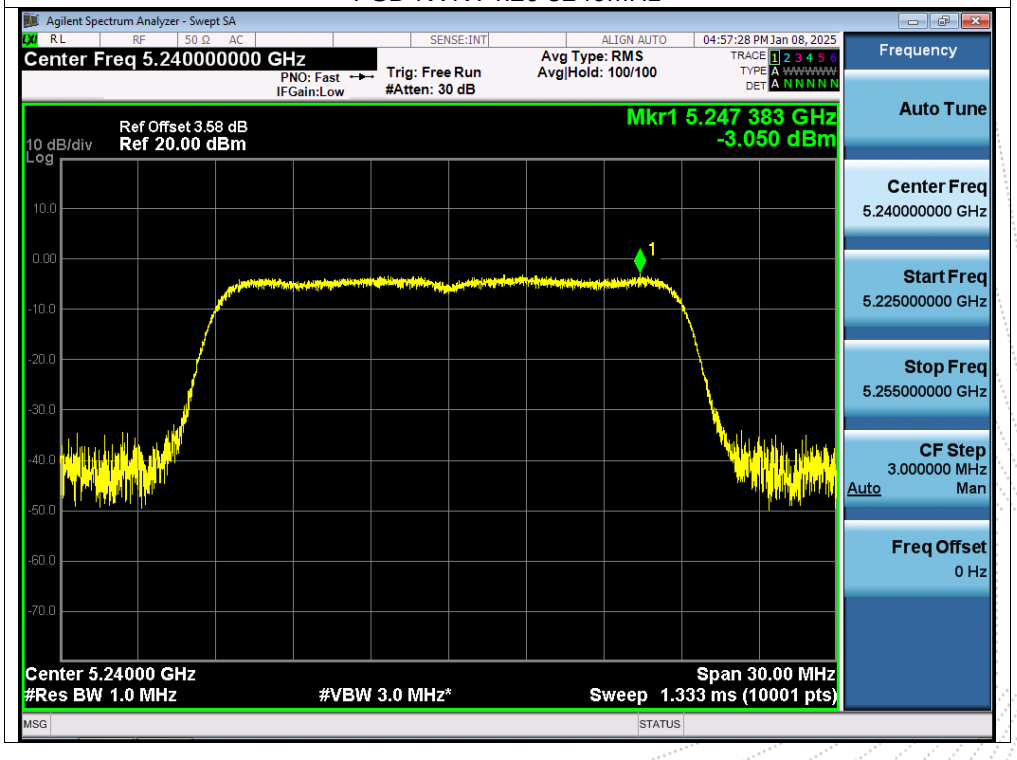
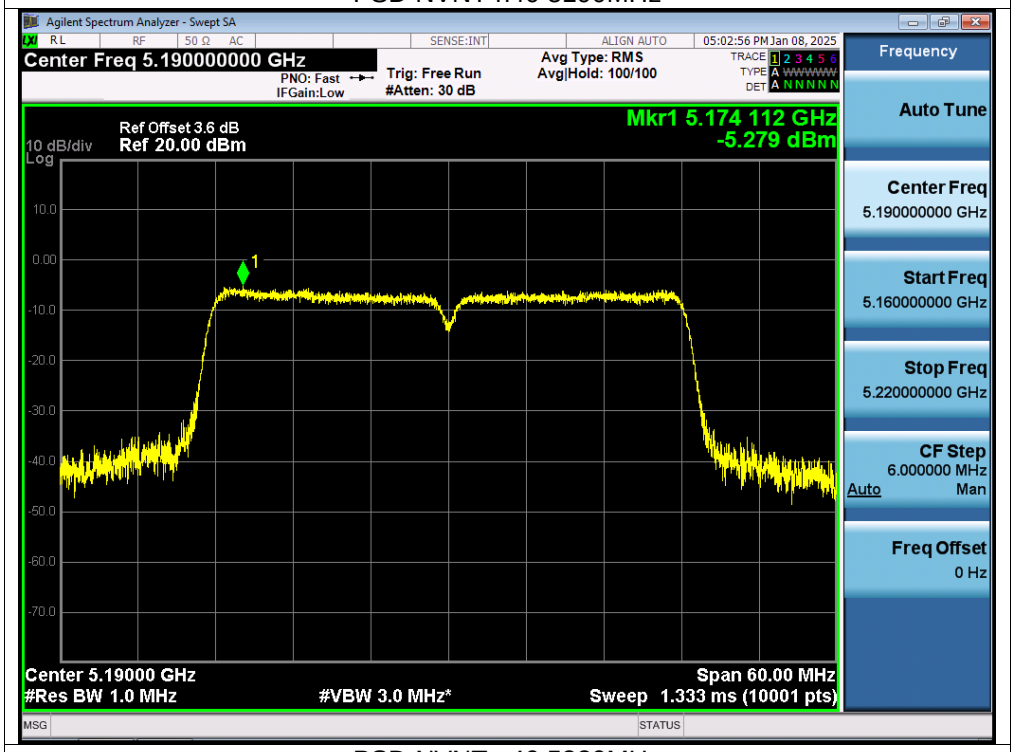


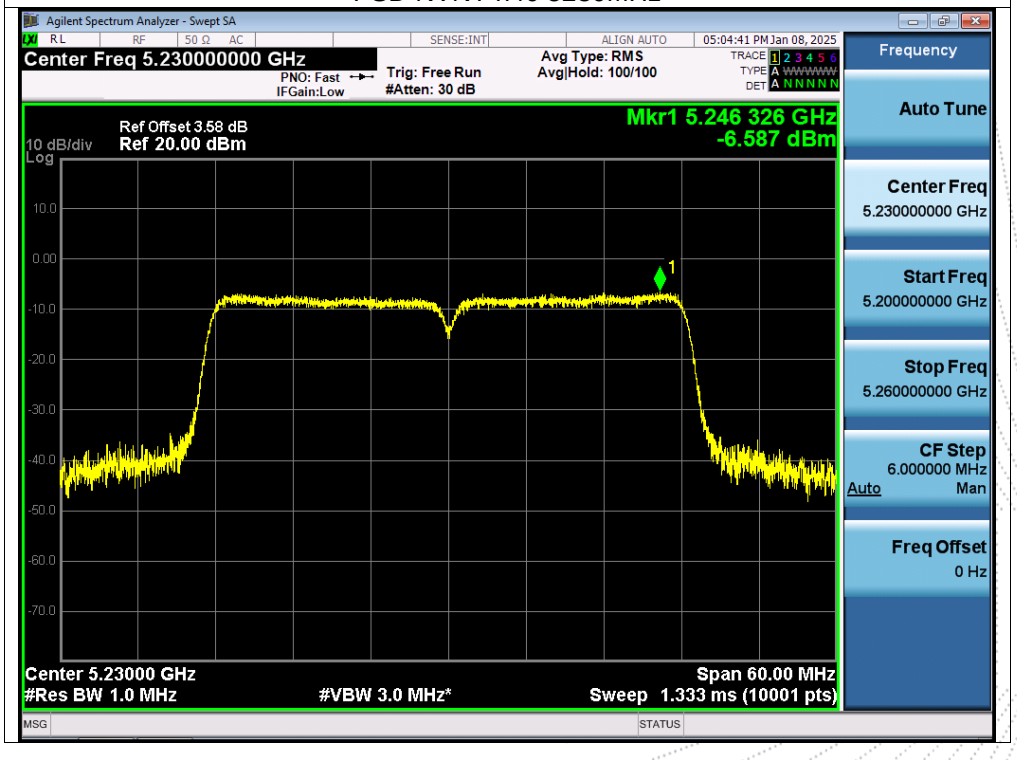
PSD NVNT n20 5240MHz



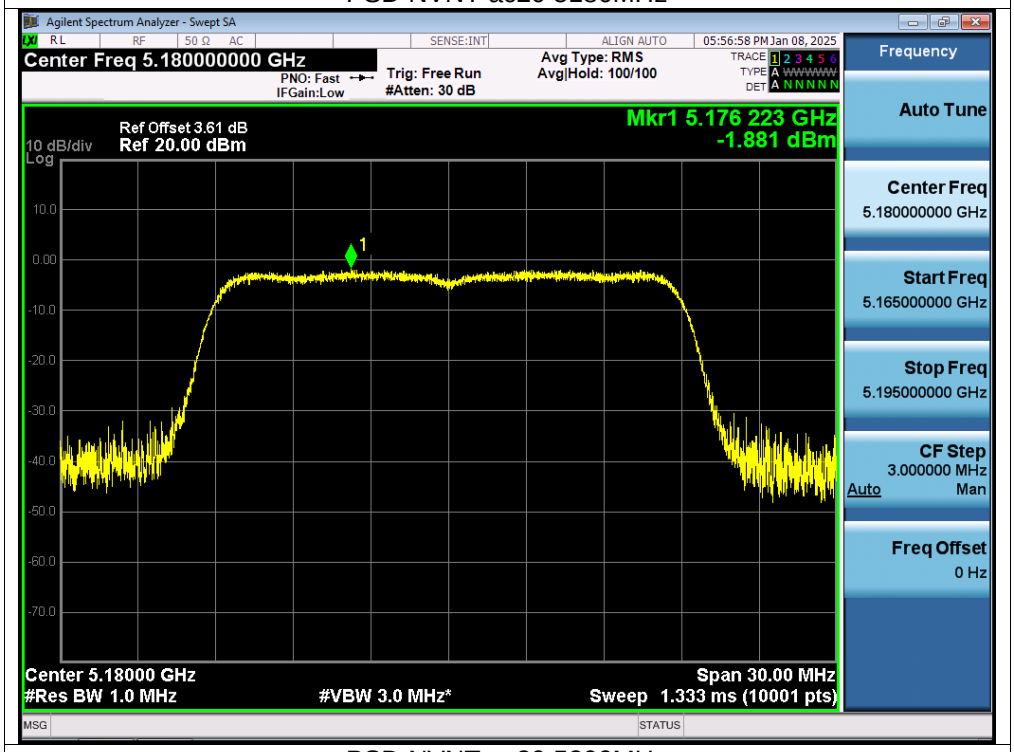
PSD NVNT n40 5190MHz



PSD NVNT n40 5230MHz

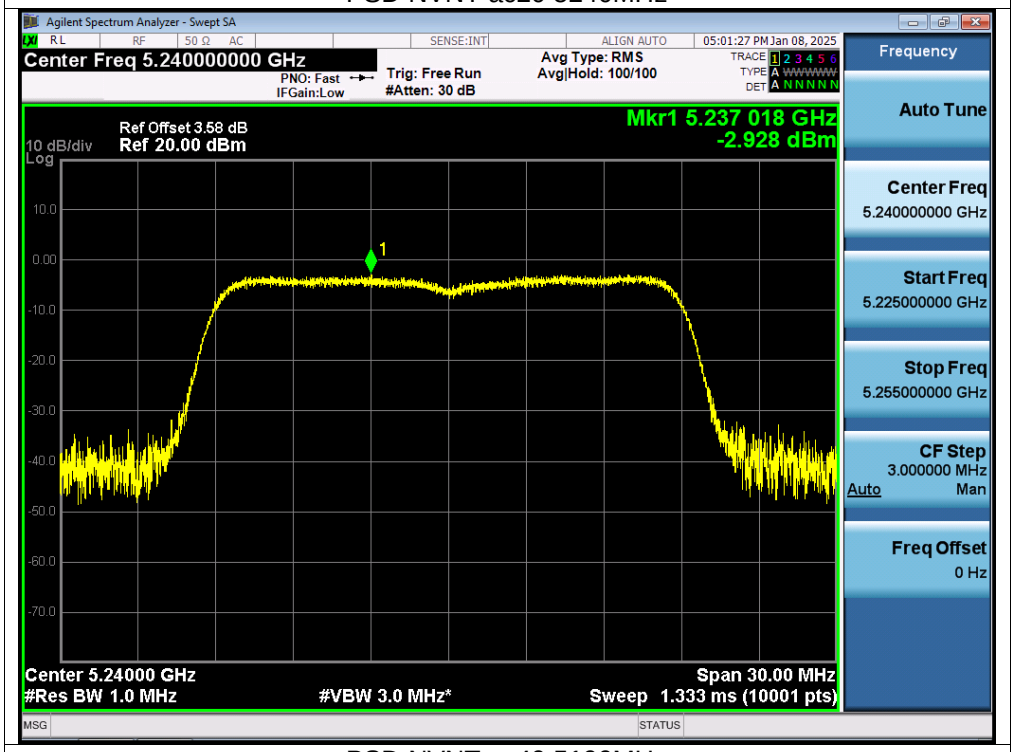


PSD NVNT ac20 5180MHz

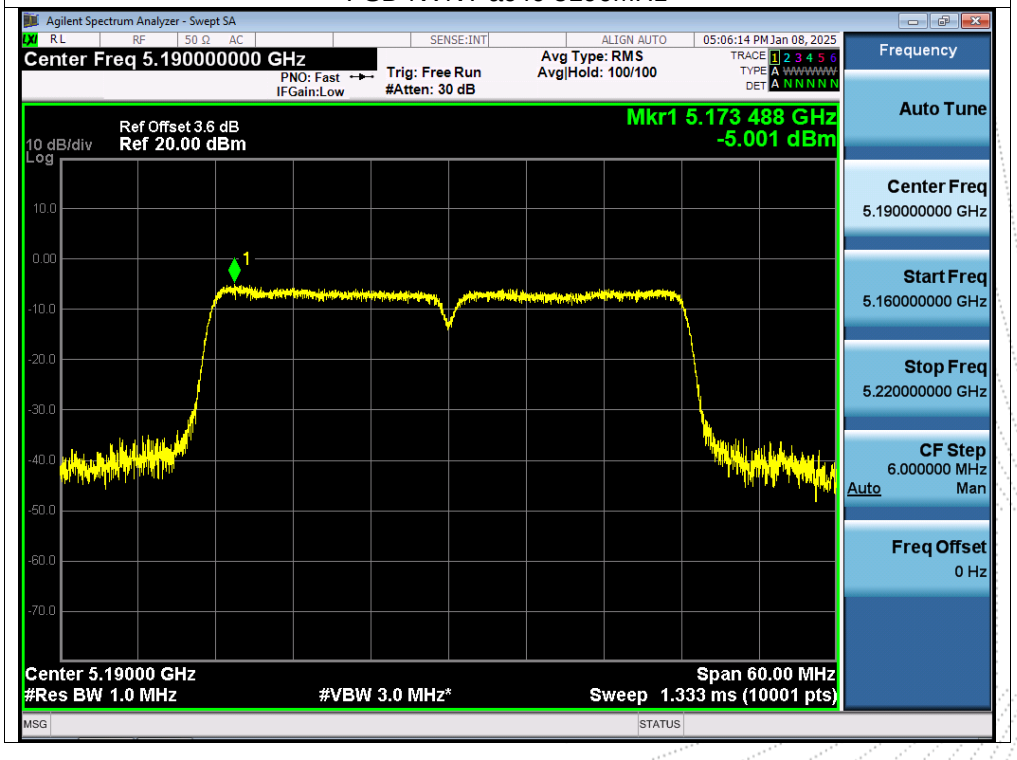


PSD NVNT ac20 5200MHz

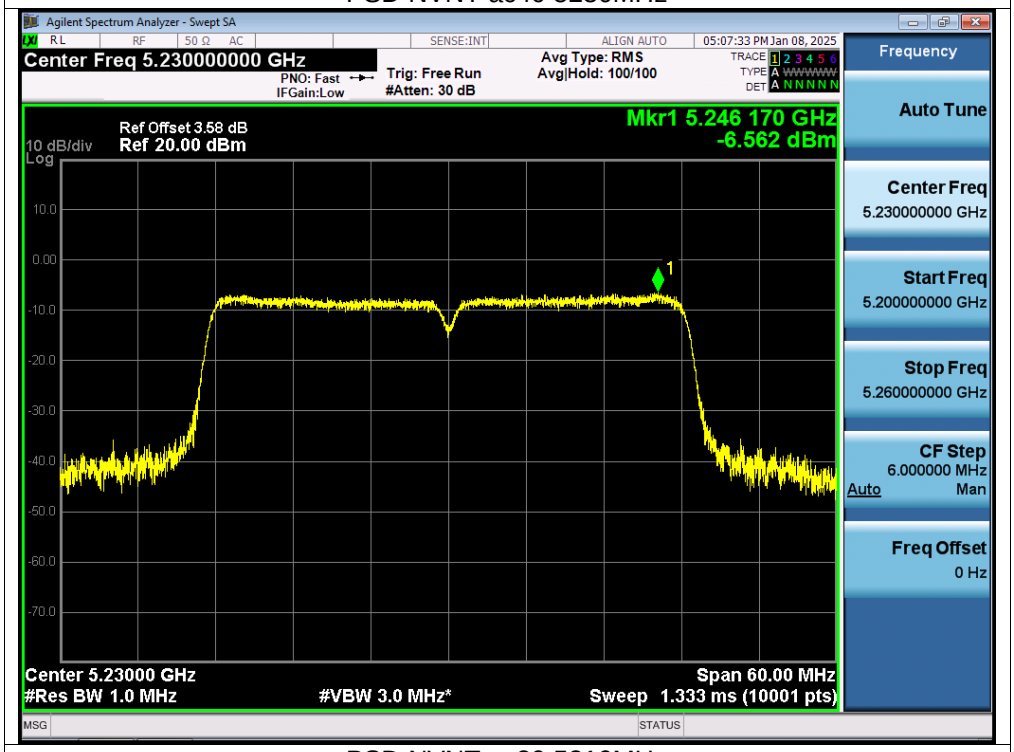
PSD NVNT ac20 5240MHz



PSD NVNT ac40 5190MHz



PSD NVNT ac40 5230MHz

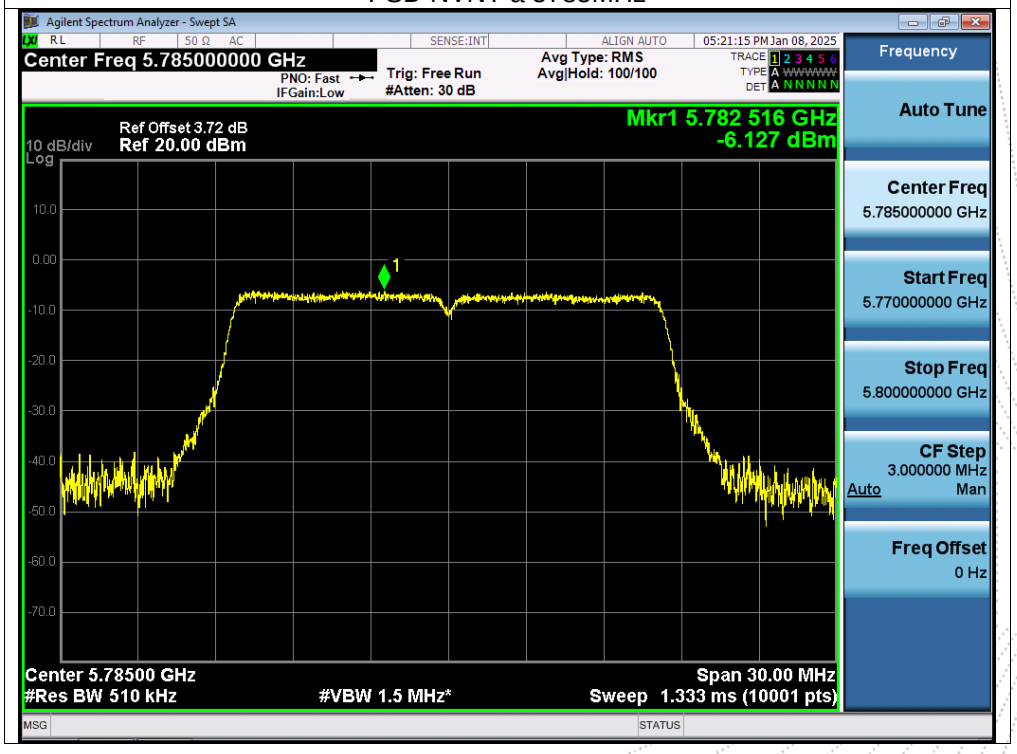


PSD NVNT ac80 5210MHz

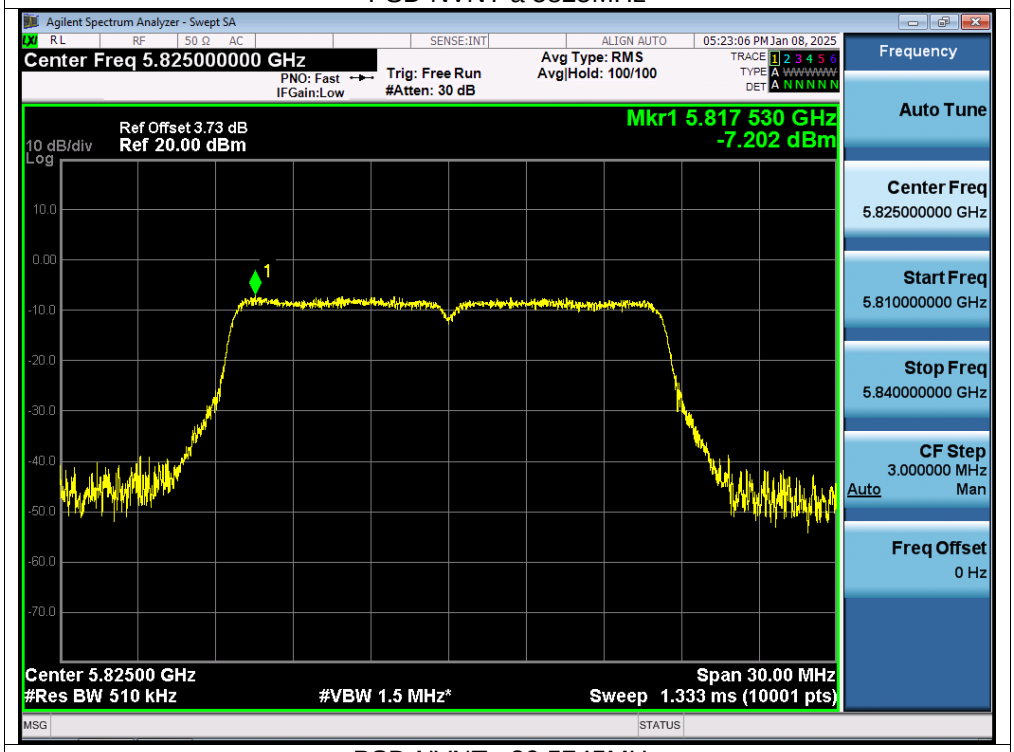
Test Graphs

PSD NVNT a 5745MHz

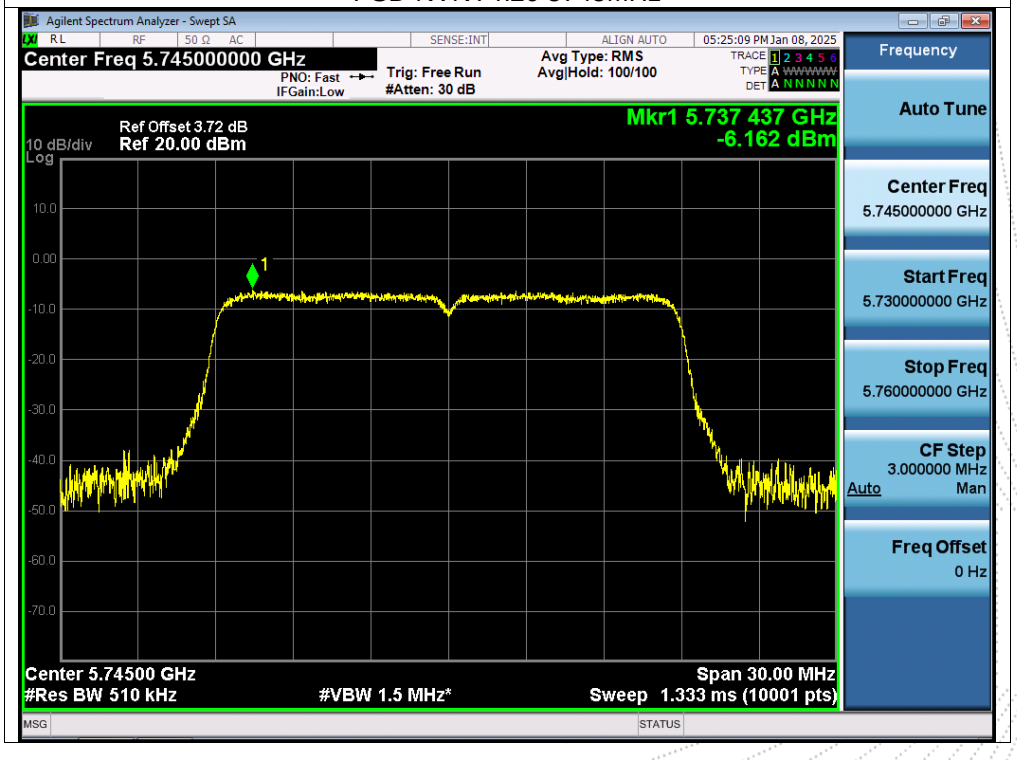
PSD NVNT a 5785MHz



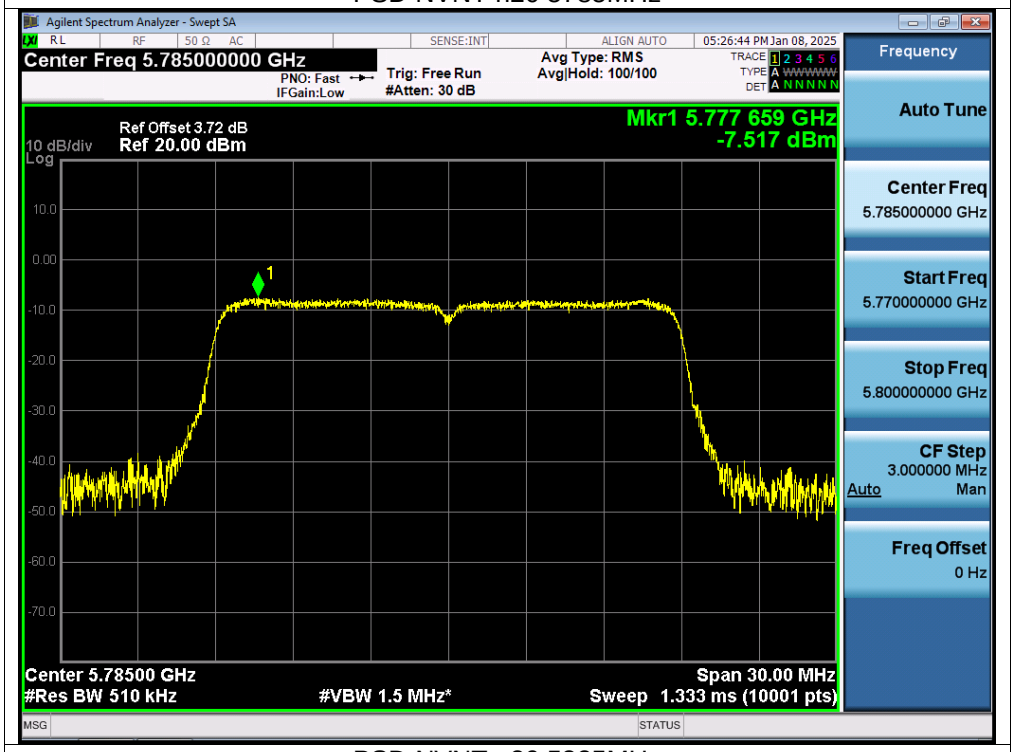
PSD NVNT a 5825MHz



PSD NVNT n20 5745MHz



PSD NVNT n20 5785MHz

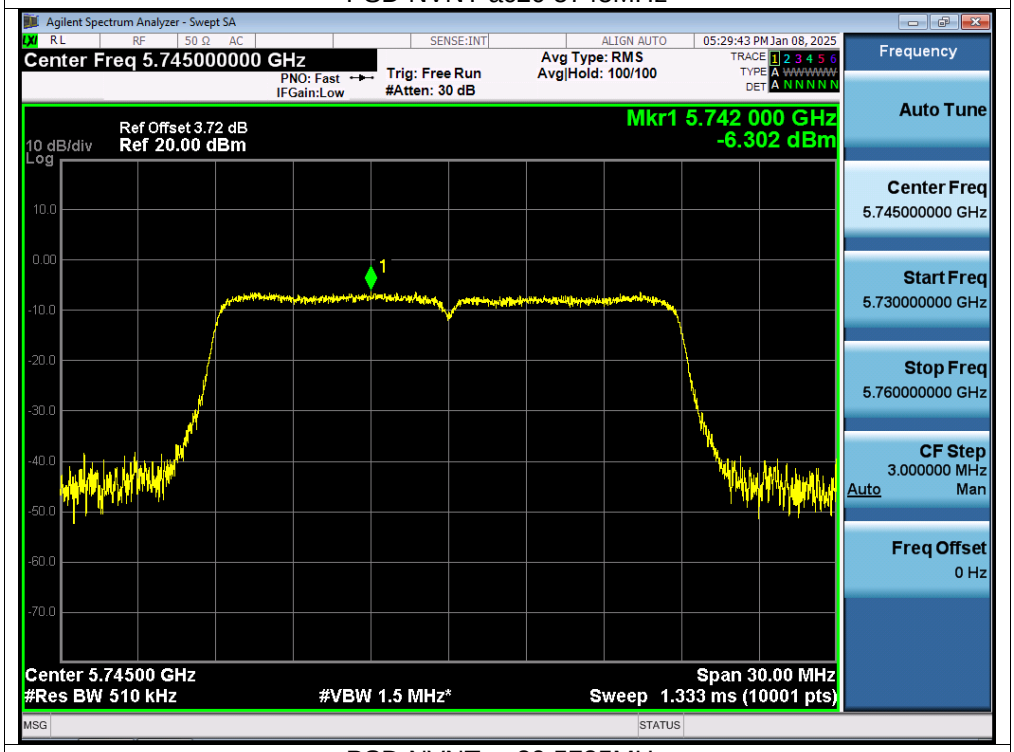


PSD NVNT n20 5825MHz

PSD NVNT n40 5755MHz

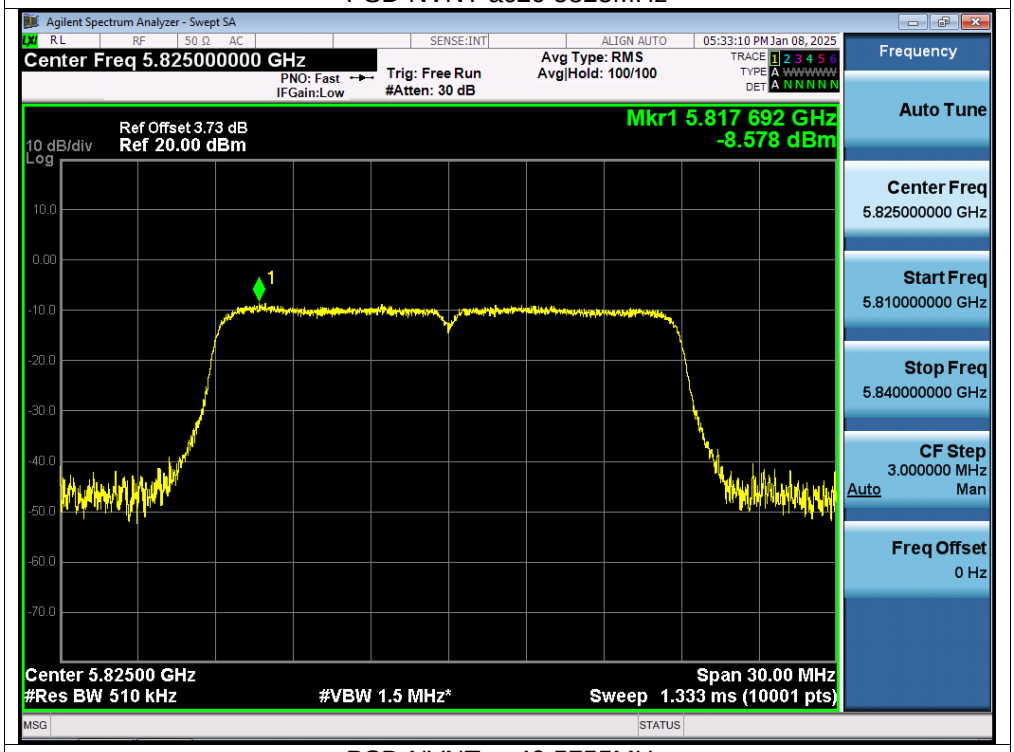
PSD NVNT n40 5795MHz

PSD NVNT ac20 5745MHz



PSD NVNT ac20 5785MHz

PSD NVNT ac20 5825MHz



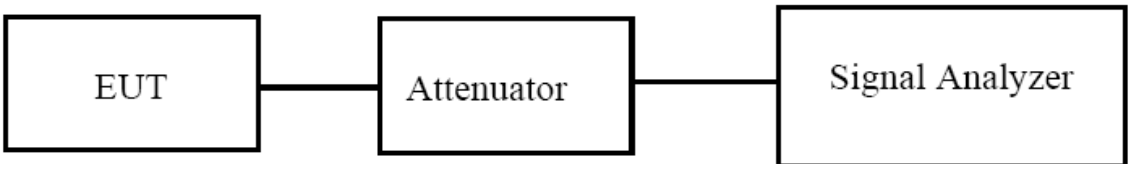
PSD NVNT ac40 5755MHz

PSD NVNT ac40 5795MHz

PSD NVNT ac80 5775MHz

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

a) Set RBW = approximately 1% of the emission bandwidth.
b) Set the VBW > RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) 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:
1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW ≥ 3 · RBW
5. 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.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. 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
1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. 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.

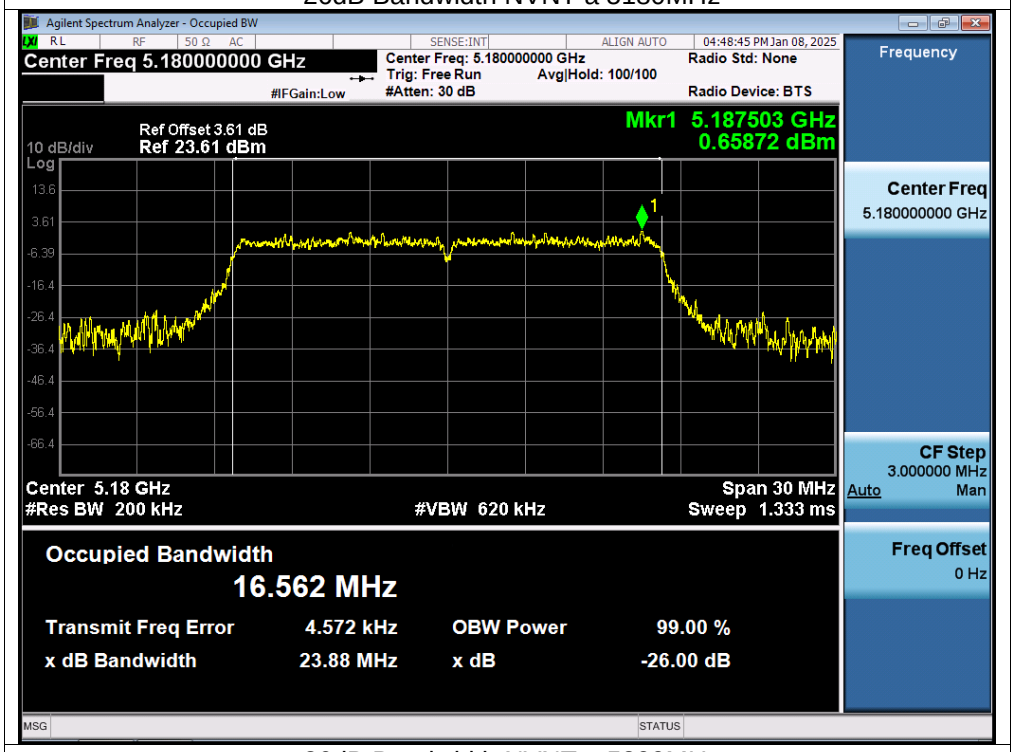
9.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.9V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

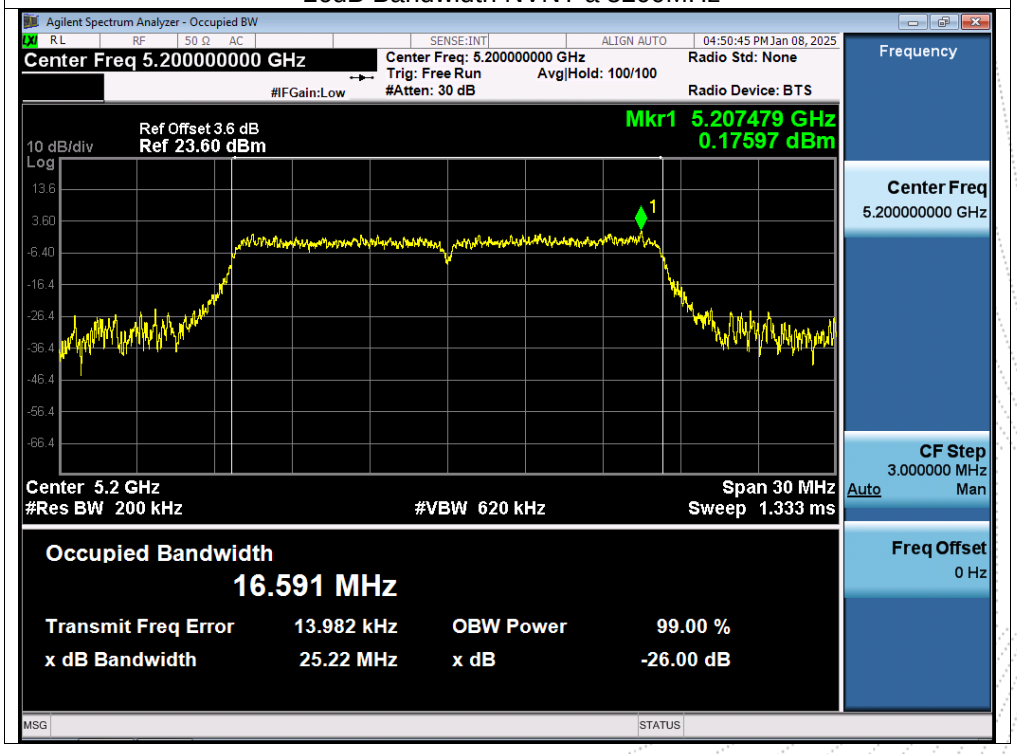
Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-26dB bandwidth (MHz)	Result
NVNT	a	5180	16.563	23.875	Pass
NVNT	a	5200	16.539	25.221	Pass
NVNT	a	5240	16.586	25.175	Pass
NVNT	n20	5180	17.617	23.319	Pass
NVNT	n20	5200	17.607	23.317	Pass
NVNT	n20	5240	17.615	21.882	Pass
NVNT	n40	5190	36.334	53.727	Pass
NVNT	n40	5230	36.336	54.381	Pass
NVNT	ac20	5180	17.592	23.487	Pass
NVNT	ac20	5200	17.643	24.393	Pass
NVNT	ac20	5240	17.62	25.249	Pass
NVNT	ac40	5190	36.314	48.727	Pass
NVNT	ac40	5230	36.359	52.801	Pass
NVNT	ac80	5210	75.571	81.827	Pass

Test Graphs

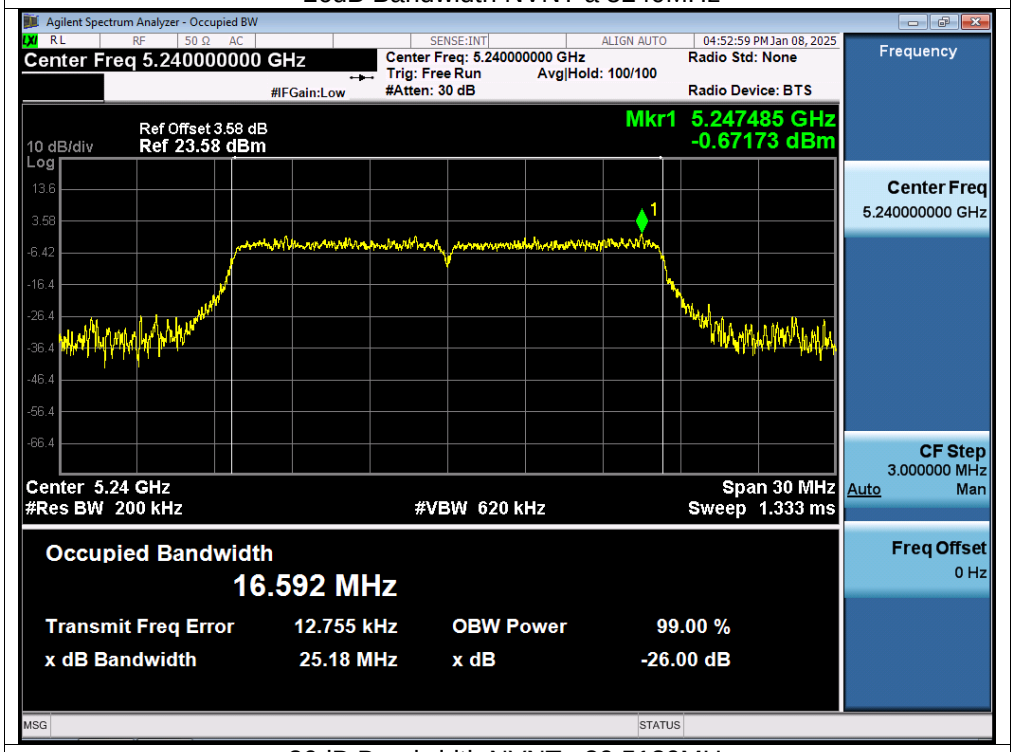
-26dB Bandwidth NVNT a 5180MHz



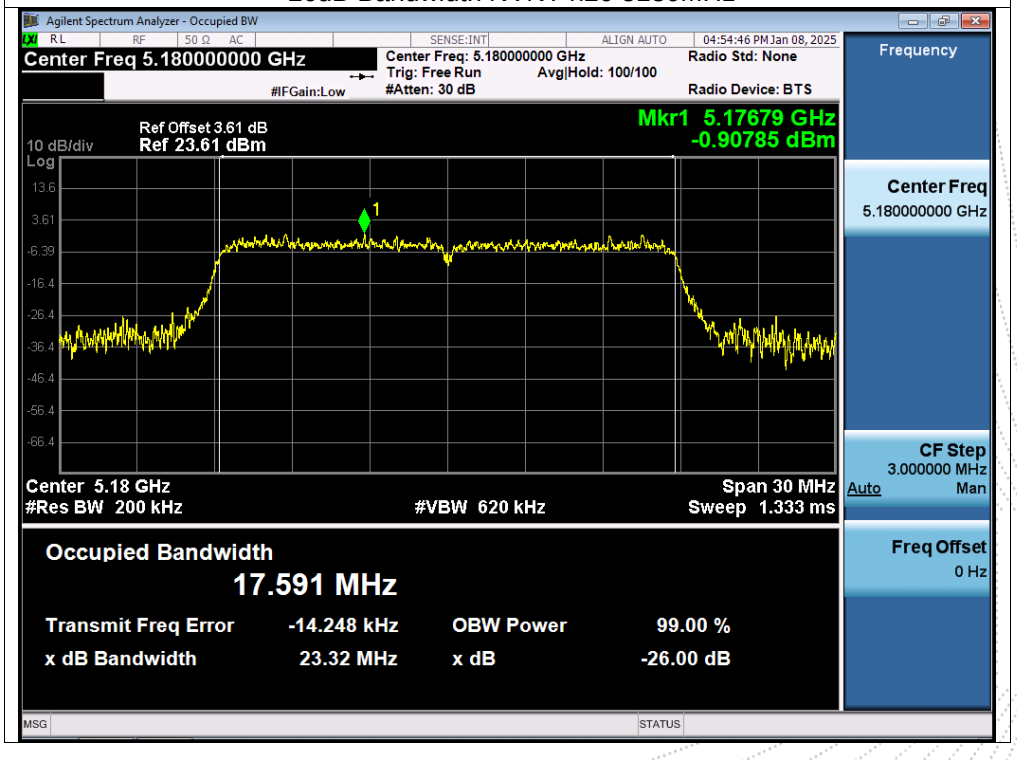
-26dB Bandwidth NVNT a 5200MHz



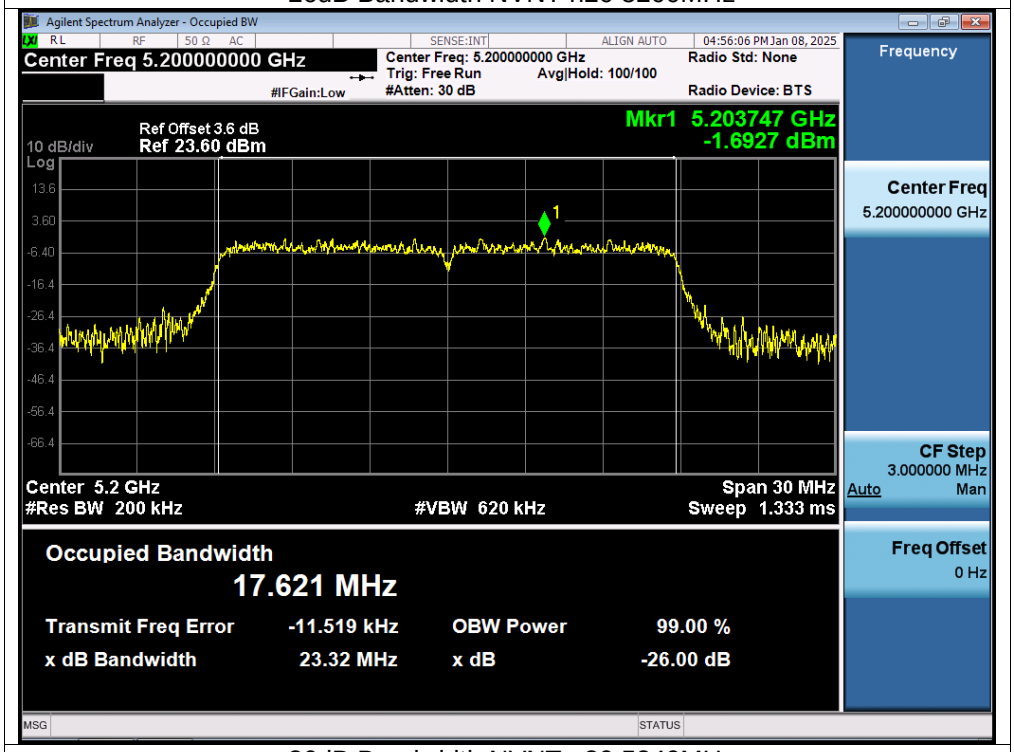
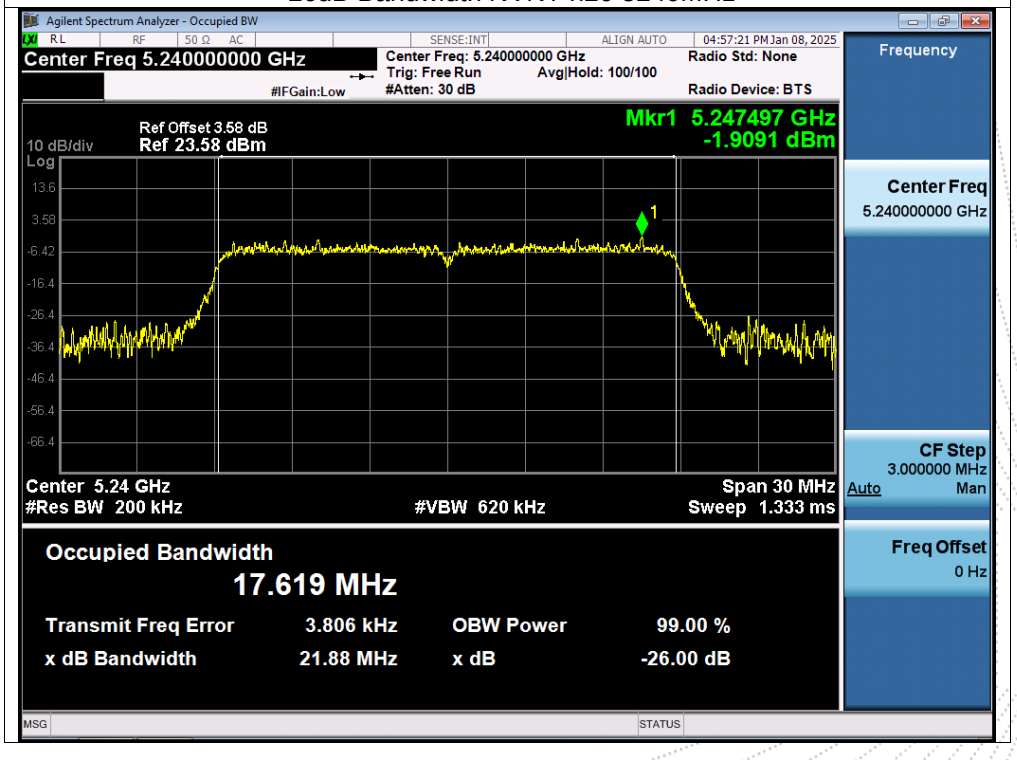
-26dB Bandwidth NVNT a 5240MHz



-26dB Bandwidth NVNT n20 5180MHz



-26dB Bandwidth NVNT n20 5200MHz



-26dB Bandwidth NVNT n20 5240MHz