

TEST REPORT

Report No.: BCTC2310003680-4E

Applicant: Shenzhen Huikun Technology Co., Ltd.

Product Name: Tablet PC

Model/Type
reference: P1100

Tested Date: 2023-10-23 to 2023-11-17

Issued Date: 2023-11-17

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



FCC ID: 2A9MG-P1100

Product Name: Tablet PC
Trademark: C idea
Model/Type reference: P1100
P1150, P1650, P1750, P1850, P1950
Prepared For: Shenzhen Huikun Technology Co., Ltd.
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Manufacturer: Shenzhen Huikun Technology Co., Ltd.
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Sample Received Date: 2023-10-23
Sample tested Date: 2023-10-23 to 2023-11-17
Issue Date: 2023-11-17
Report No.: BCTC2310003680-4E
FCC Part15 15.407
Test Standards: ANSI C63.10-2013
KDB 662911 D01 v02r01
KDB 789033 D02 v02r01
Test Results: PASS

Tested by:



Lei Chen/Project Handler

Approved by:



Zero Zhou/Reviewer

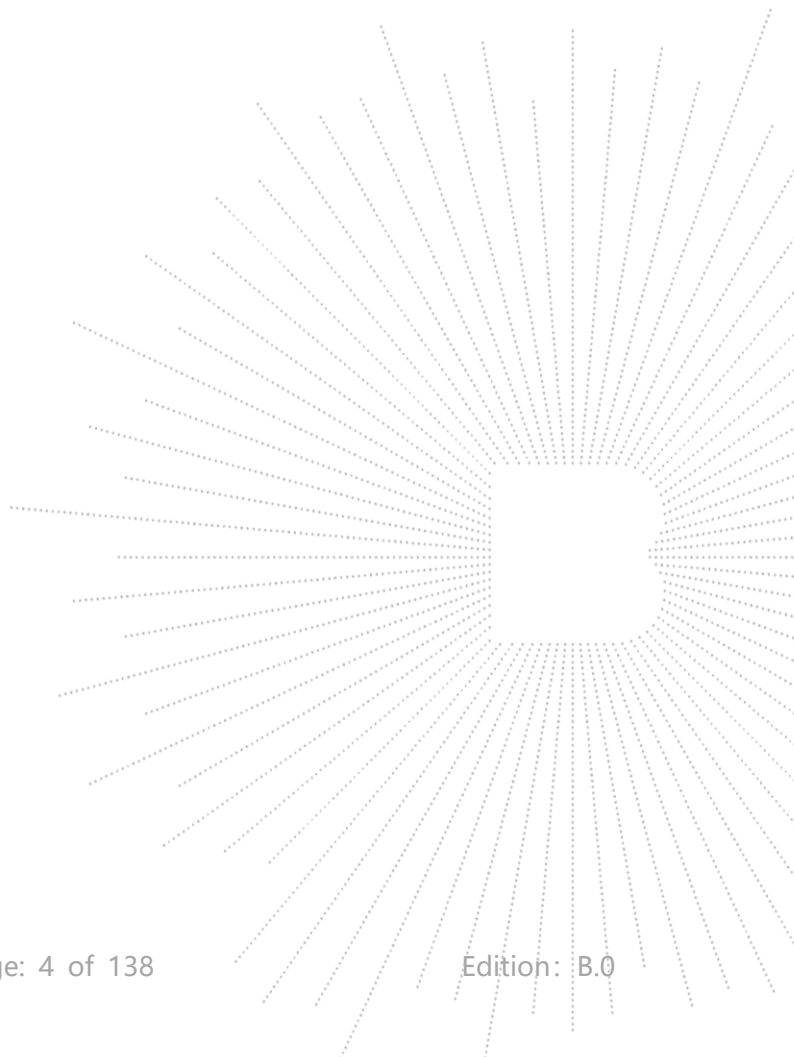
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2310003680-4E	2023-11-17	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

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

3. Measurement Uncertainty

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

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

4. Product Information And Test Setup

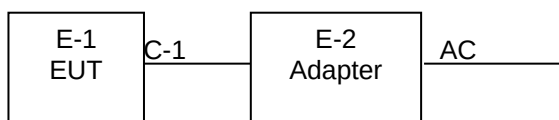
4.1 Product Information

Model/Type Ref.:	P1100 P1150, P1650, P1750, P1850, P1950
Model differences:	All the model are the same circuit and RF module, except model names and appearance of the color.
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN Mode Supported	802.11a/n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth) 5180-5240MHz for 802.11a/n(HT20); 5190-5230MHz for 802.11n(HT40); 5210MHz for 802.11 ac80;
Operation Frequency:	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:	FPC antenna
Antenna Gain:	5.1G: 1.05dBi 5.8G: 1.33dBi
Ratings:	DC 5V from adapter, DC 3.8V from battery
Adapter:	Model: WKY-0502000DM Input: AC 100-240V 50/60Hz Output: DC 5V 2A

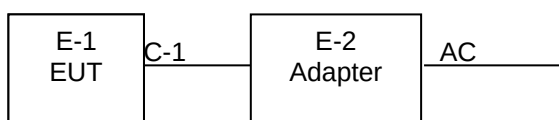
4.2 Test Setup Configuration

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

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Tablet PC	C idea	P1100	More models Ref. the 4.1	EUT
E-2	Adapter	N/A	WKY-0502000D M	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.5M	DC cable unshielded

Notes:

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

4.4 Channel List

5.1G

802.11a/n/ac(20MHz) 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 Mode

Conducted Emission	
Final Test Mode	Description
Mode 4	Link Mode

For Radiated Emission	
Final Test 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

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

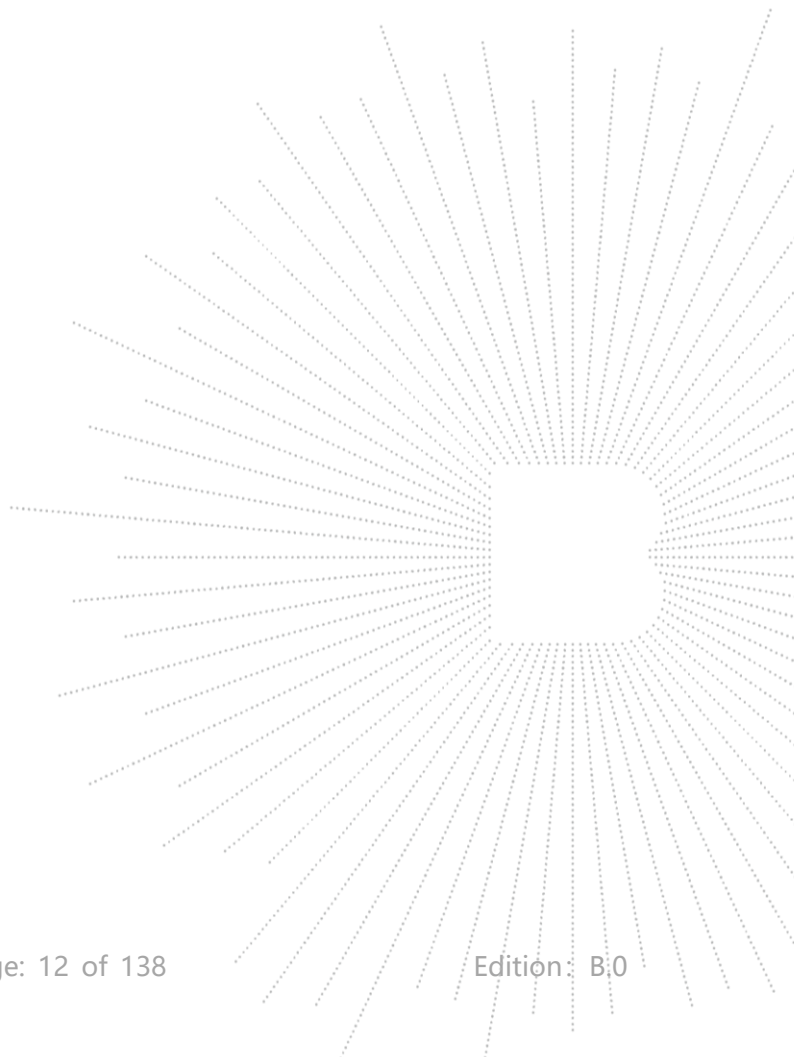
ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
LISN	R&S	ENV216	101375	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	Sept. 22, 2023	Sept 21, 2024

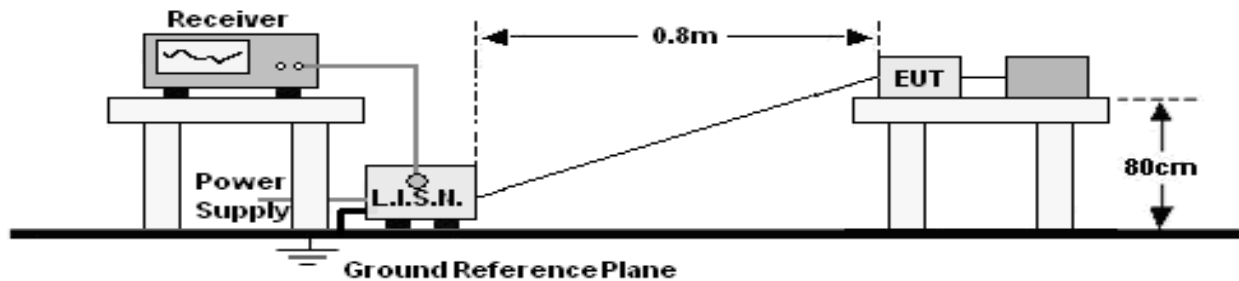
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 15, 2023	May 14, 2024
Power Sensor (AV)	Keysight	E9300A	\	May 15, 2023	May 14, 2024
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
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 15, 2023	May 14, 2024
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 29, 2023	May 28, 2024
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024
Amplifier	SKET	LAPA_01G18 G-45dB	SK2021040901	May 15, 2023	May 14, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 15, 2023	May 14, 2024
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	FA-03A2 RE	\	\



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

Frequency (MHz)	Limit (dBuV)	
	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Notes:

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

6.3 Test Procedure

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

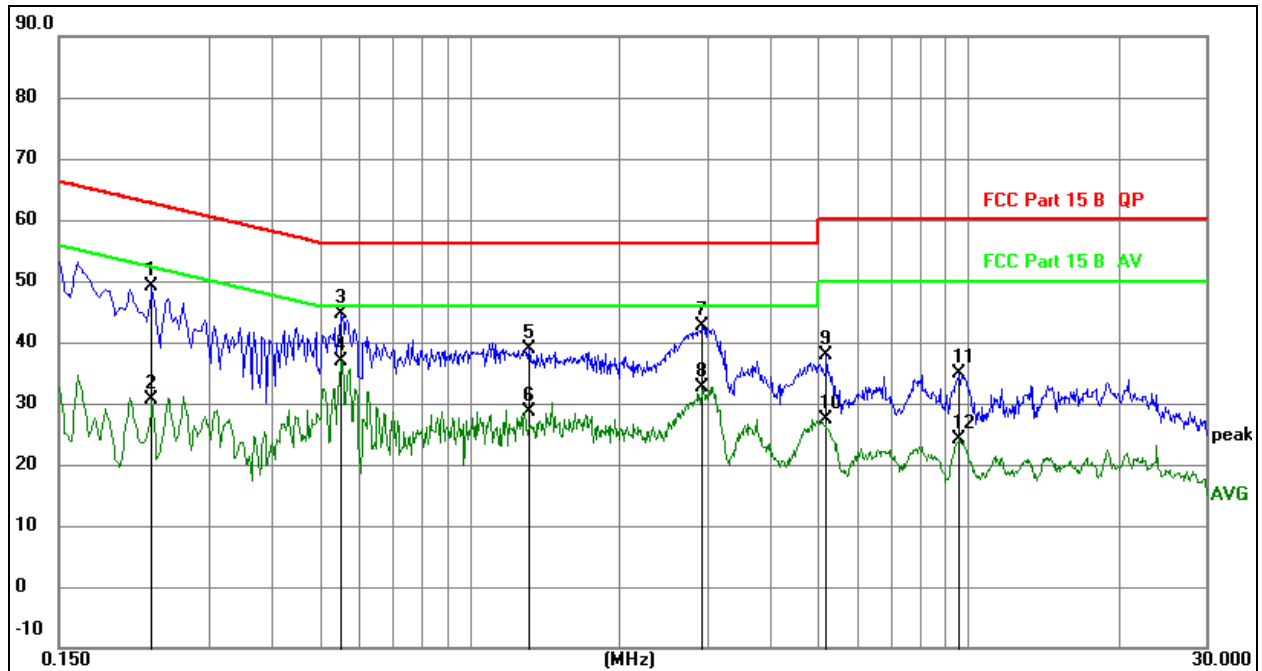
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak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

6.4 EUT Operating Conditions

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

6.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz

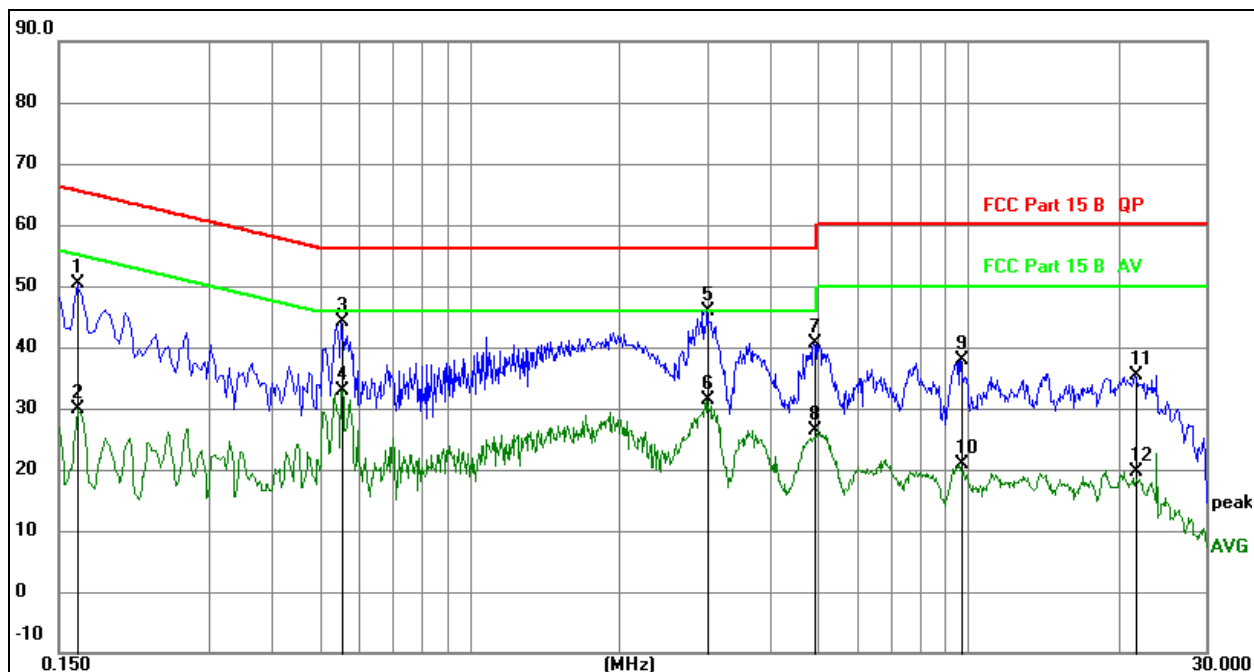


Remark:

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. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2303	29.26	19.83	49.09	62.44	-13.35	QP
2		0.2303	10.76	19.83	30.59	52.44	-21.85	AVG
3		0.5522	24.68	19.84	44.52	56.00	-11.48	QP
4	*	0.5522	17.15	19.84	36.99	46.00	-9.01	AVG
5		1.3167	19.00	19.95	38.95	56.00	-17.05	QP
6		1.3167	8.76	19.95	28.71	46.00	-17.29	AVG
7		2.9305	22.44	20.28	42.72	56.00	-13.28	QP
8		2.9305	12.42	20.28	32.70	46.00	-13.30	AVG
9		5.1937	17.60	20.38	37.98	60.00	-22.02	QP
10		5.1937	6.92	20.38	27.30	50.00	-22.70	AVG
11		9.6028	15.01	19.89	34.90	60.00	-25.10	QP
12		9.6028	4.36	19.89	24.25	50.00	-25.75	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



Remark:

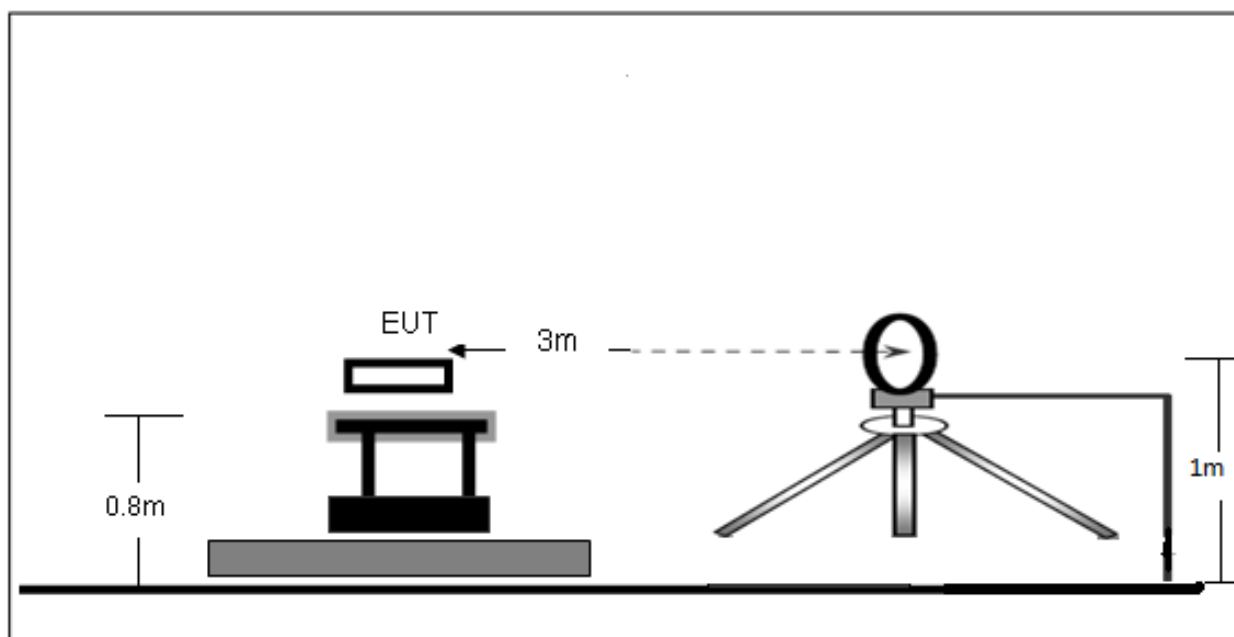
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over1 Measurement-Limit

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1635	30.69	19.76	50.45	65.28	-14.83	QP
2		0.1635	10.09	19.76	29.85	55.28	-25.43	AVG
3		0.5550	24.37	19.84	44.21	56.00	-11.79	QP
4		0.5550	13.05	19.84	32.89	46.00	-13.11	AVG
5	*	3.0075	25.49	20.31	45.80	56.00	-10.20	QP
6		3.0075	11.07	20.31	31.38	46.00	-14.62	AVG
7		4.9155	20.24	20.45	40.69	56.00	-15.31	QP
8		4.9155	5.97	20.45	26.42	46.00	-19.58	AVG
9		9.6674	17.97	19.89	37.86	60.00	-22.14	QP
10		9.6674	0.97	19.89	20.86	50.00	-29.14	AVG
11		21.6330	15.43	19.99	35.42	60.00	-24.58	QP
12		21.6330	-0.40	19.99	19.59	50.00	-30.41	AVG

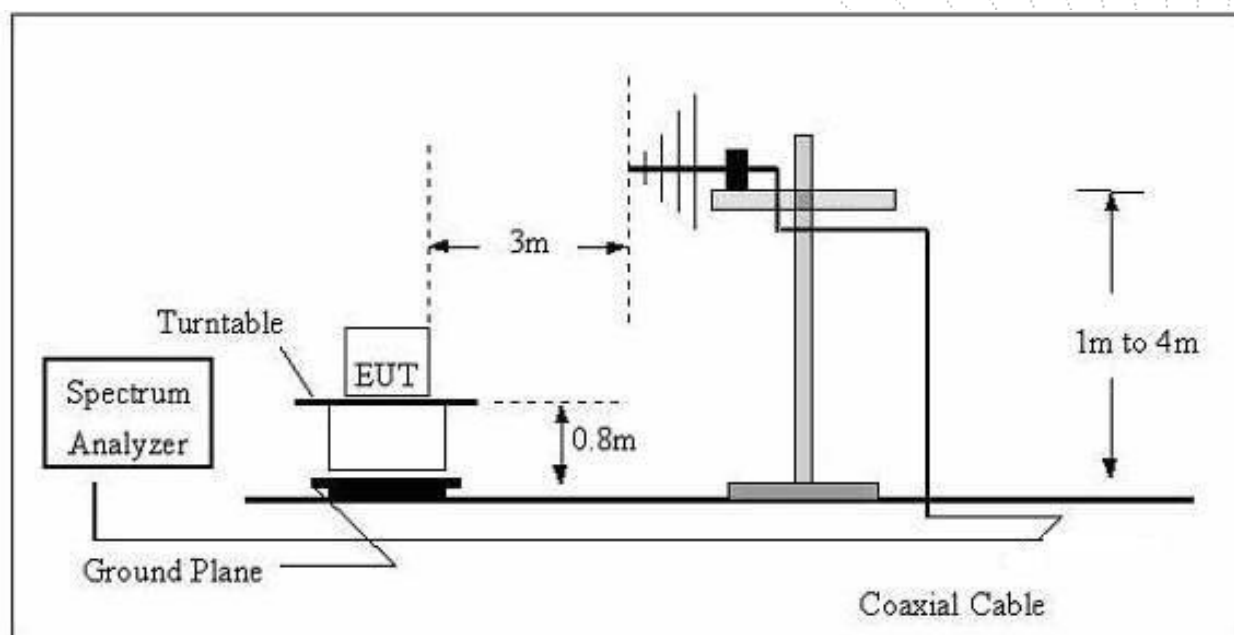
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

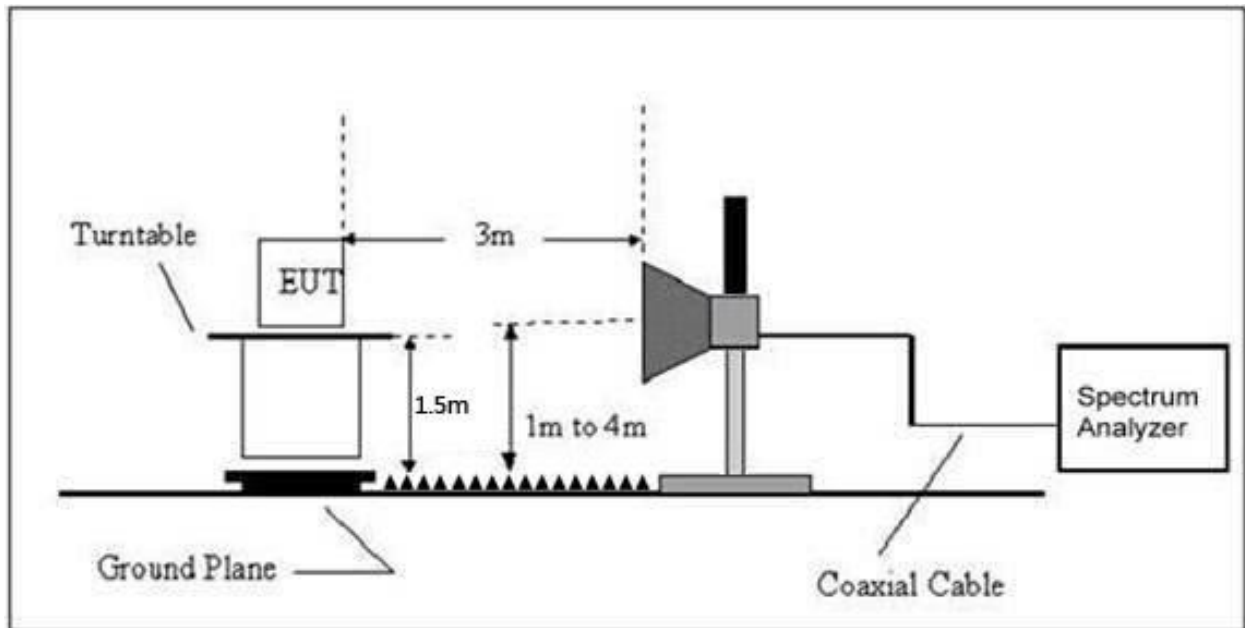
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



7.2 Limit

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

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

Limits Of Radiated Emission Measurement (Above 1000MHz)

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

Notes:

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

7.3 Test Procedure

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

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

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

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

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

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

Note:

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

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

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

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

7.4 EUT Operating Conditions

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

7.5 Test Result

Below 30MHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	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:

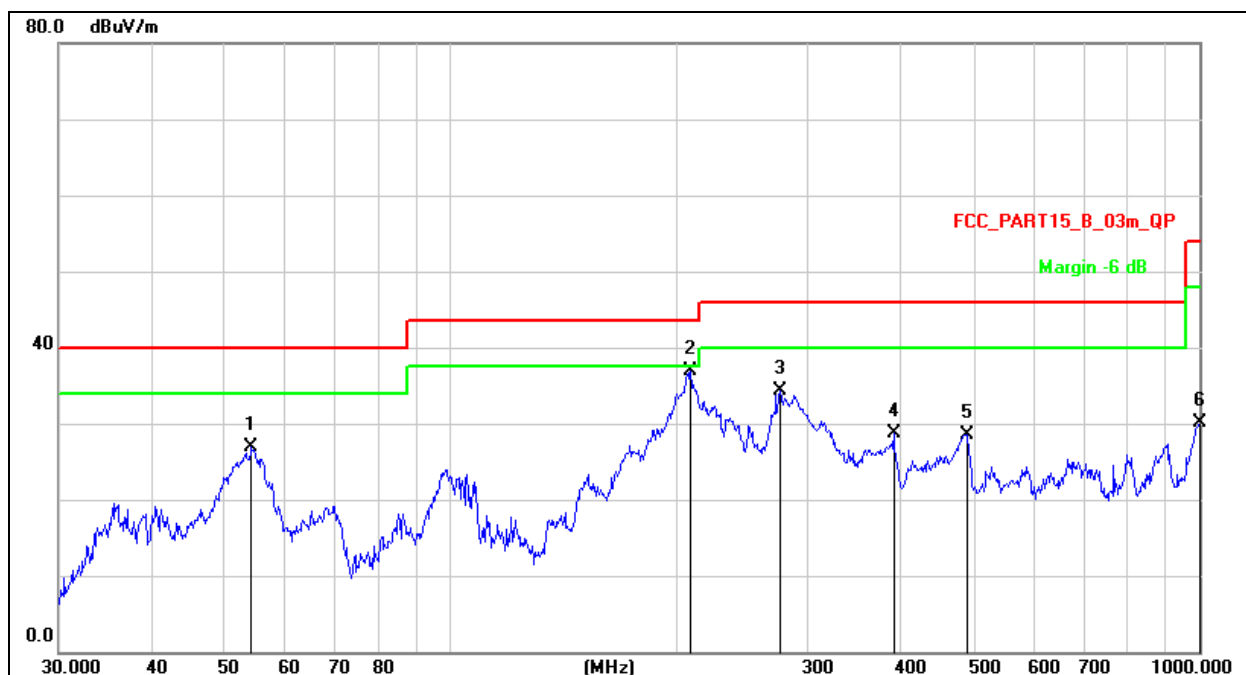
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz

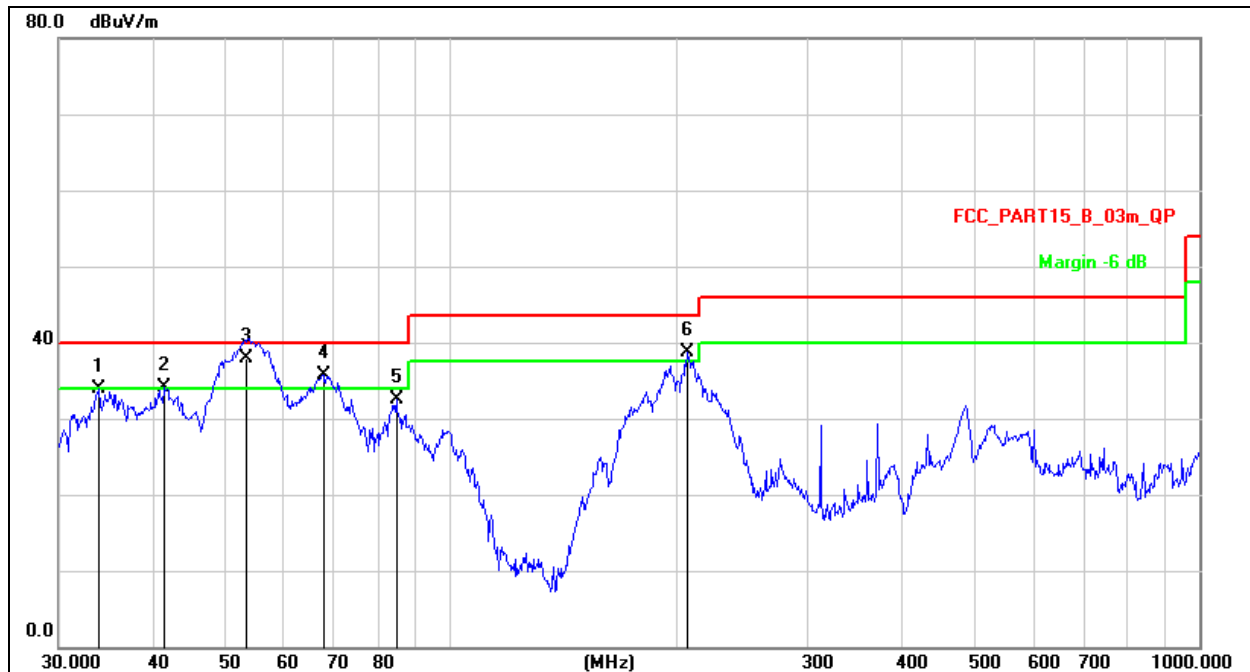


Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		54.2610	41.36	-14.48	26.88	40.00	-13.12	QP
2	*	209.3129	52.35	-15.45	36.90	43.50	-6.60	QP
3		276.1235	48.07	-13.74	34.33	46.00	-11.67	QP
4		390.7226	39.73	-10.96	28.77	46.00	-17.23	QP
5		490.7447	37.33	-8.84	28.49	46.00	-17.51	QP
6		1000.000	32.55	-2.36	30.19	54.00	-23.81	QP

Temperature:	26 °C	Relative Humidity:	54%
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. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		33.9174	49.87	-15.89	33.98	40.00	-6.02	QP
2	!	41.5670	48.61	-14.59	34.02	40.00	-5.98	QP
3	*	53.3332	52.17	-14.35	37.82	40.00	-2.18	QP
4	!	67.6751	53.09	-17.36	35.73	40.00	-4.27	QP
5		84.7018	51.06	-18.64	32.42	40.00	-7.58	QP
6	!	207.1226	54.20	-15.52	38.68	43.50	-4.82	QP

Between 1GHz – 40GHz

Test Mode:	TX(5.1G) - 802.11a
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Polar	Fre- quency	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	4434.117	74.43	-20.73	53.70	68.2	-14.50	PK
Vertical	4434.117	59.95	-20.73	39.22	54	-14.78	AV
Vertical	10360.039	61.04	-9.36	51.68	68.2	-16.52	PK
Vertical	10360.039	49.53	-9.36	40.17	54	-13.83	AV
Vertical	15540.158	63.73	-7.84	55.89	74	-18.11	PK
Vertical	15540.158	49.96	-7.84	42.12	54	-11.88	AV
Horizontal	4434.173	74.70	-20.73	53.97	68.2	-14.23	PK
Horizontal	4434.173	59.67	-20.73	38.94	54	-15.06	AV
Horizontal	10360.091	60.21	-9.36	50.85	68.2	-17.35	PK
Horizontal	10360.091	49.03	-9.36	39.67	54	-14.33	AV
Horizontal	15540.123	64.14	-7.84	56.30	74	-17.70	PK
Horizontal	15540.123	49.51	-7.84	41.67	54	-12.33	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.052	72.32	-20.42	51.91	74	-22.09	PK
Vertical	4592.052	59.27	-20.42	38.85	54	-15.15	AV
Vertical	10400.026	64.97	-9.30	55.67	68.2	-12.53	PK
Vertical	10400.026	49.47	-9.30	40.17	54	-13.83	AV
Vertical	15600.055	64.71	-7.82	56.89	74	-17.11	PK
Vertical	15600.055	49.14	-7.82	41.32	54	-12.68	AV
Horizontal	4592.172	71.75	-20.42	51.34	74	-22.66	PK
Horizontal	4592.172	59.36	-20.42	38.94	54	-15.06	AV
Horizontal	10400.114	63.50	-9.30	54.20	68.2	-14.00	PK
Horizontal	10400.114	49.75	-9.30	40.45	54	-13.55	AV
Horizontal	15600.044	64.40	-7.82	56.58	74	-17.42	PK
Horizontal	15600.044	49.40	-7.82	41.58	54	-12.42	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.061	73.71	-20.12	53.58	74	-20.42	PK
Vertical	4739.061	59.92	-20.12	39.80	54	-14.20	AV
Vertical	10480.184	64.79	-9.18	55.61	68.2	-12.59	PK
Vertical	10480.184	49.69	-9.18	40.51	54	-13.49	AV
Vertical	15720.068	64.11	-7.78	56.33	74	-17.67	PK
Vertical	15720.068	49.43	-7.78	41.65	54	-12.35	AV
Horizontal	4739.147	74.40	-20.12	54.28	74	-19.72	PK
Horizontal	4739.147	59.82	-20.12	39.70	54	-14.30	AV
Horizontal	10480.019	60.27	-9.18	51.09	68.2	-17.11	PK
Horizontal	10480.019	49.04	-9.18	39.86	54	-14.14	AV
Horizontal	15720.159	60.45	-7.78	52.67	74	-21.33	PK
Horizontal	15720.159	49.06	-7.78	41.28	54	-12.72	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)	Fre- quency (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	4434.013	73.42	-20.73	52.69	68.2	-15.51	PK
Vertical	4434.013	59.47	-20.73	38.73	54	-15.27	AV
Vertical	10360.042	64.67	-9.36	55.31	68.2	-12.89	PK
Vertical	10360.042	49.46	-9.36	40.10	54	-13.90	AV
Vertical	15540.030	63.84	-7.84	56.00	74	-18.00	PK
Vertical	15540.030	49.76	-7.84	41.92	54	-12.08	AV
Horizontal	4434.179	71.57	-20.73	50.84	68.2	-17.36	PK
Horizontal	4434.179	59.39	-20.73	38.65	54	-15.35	AV
Horizontal	10360.136	62.60	-9.36	53.24	68.2	-14.96	PK
Horizontal	10360.136	49.40	-9.36	40.04	54	-13.96	AV
Horizontal	15540.121	60.24	-7.84	52.40	74	-21.60	PK
Horizontal	15540.121	49.80	-7.84	41.96	54	-12.04	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.006	71.28	-20.42	50.87	74	-23.13	PK
Vertical	4592.006	59.31	-20.42	38.89	54	-15.11	AV
Vertical	10400.049	64.65	-9.30	55.35	68.2	-12.85	PK
Vertical	10400.049	49.51	-9.30	40.21	54	-13.79	AV
Vertical	15600.199	62.12	-7.82	54.30	74	-19.70	PK
Vertical	15600.199	49.61	-7.82	41.79	54	-12.21	AV
Horizontal	4592.138	72.14	-20.42	51.72	74	-22.28	PK
Horizontal	4592.138	59.83	-20.42	39.42	54	-14.58	AV
Horizontal	10400.175	63.11	-9.30	53.81	68.2	-14.39	PK
Horizontal	10400.175	49.58	-9.30	40.28	54	-13.72	AV
Horizontal	15600.135	61.13	-7.82	53.31	74	-20.69	PK
Horizontal	15600.135	49.19	-7.82	41.37	54	-12.63	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.143	70.83	-20.12	50.71	74	-23.29	PK
Vertical	4739.143	59.92	-20.12	39.80	54	-14.20	AV
Vertical	10480.135	63.10	-9.18	53.92	68.2	-14.28	PK
Vertical	10480.135	49.07	-9.18	39.89	54	-14.11	AV
Vertical	15720.151	60.91	-7.78	53.13	74	-20.87	PK
Vertical	15720.151	49.98	-7.78	42.20	54	-11.80	AV
Horizontal	4739.002	74.00	-20.12	53.88	74	-20.12	PK
Horizontal	4739.002	59.45	-20.12	39.33	54	-14.67	AV
Horizontal	10480.043	64.99	-9.18	55.81	68.2	-12.39	PK
Horizontal	10480.043	49.91	-9.18	40.73	54	-13.27	AV
Horizontal	15720.172	61.93	-7.78	54.15	74	-19.85	PK
Horizontal	15720.172	49.42	-7.78	41.64	54	-12.36	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)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.188	71.11	-20.73	50.38	68.2	-17.82	PK
Vertical	4434.188	59.37	-20.73	38.64	54	-15.36	AV
Vertical	10380.089	60.11	-9.33	50.78	68.2	-17.42	PK
Vertical	10380.089	49.44	-9.33	40.11	54	-13.89	AV
Vertical	15570.048	62.33	-7.83	54.50	74	-19.50	PK
Vertical	15570.048	49.23	-7.83	41.40	54	-12.60	AV
Horizontal	4434.188	70.88	-20.73	50.15	74	-23.85	PK
Horizontal	4434.188	59.63	-20.73	38.90	54	-15.10	AV
Horizontal	10380.174	61.61	-9.33	52.28	68.2	-15.92	PK
Horizontal	10380.174	49.80	-9.33	40.47	54	-13.53	AV
Horizontal	15570.173	60.40	-7.83	52.57	74	-21.43	PK
Horizontal	15570.173	49.92	-7.83	42.09	54	-11.91	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.147	72.59	-20.12	52.47	68.2	-15.73	PK
Vertical	4739.147	59.82	-20.12	39.69	54	-14.31	AV
Vertical	10460.082	64.53	-9.21	55.32	68.2	-12.88	PK
Vertical	10460.082	49.05	-9.21	39.84	54	-14.16	AV
Vertical	15690.108	63.04	-7.79	55.25	74	-18.75	PK
Vertical	15690.108	49.89	-7.79	42.10	54	-11.90	AV
Horizontal	4739.105	73.70	-20.12	53.58	68.2	-14.62	PK
Horizontal	4739.105	59.08	-20.12	38.95	54	-15.05	AV
Horizontal	10460.082	62.61	-9.21	53.40	68.2	-14.80	PK
Horizontal	10460.082	49.77	-9.21	40.56	54	-13.44	AV
Horizontal	15690.089	60.95	-7.79	53.16	74	-20.84	PK
Horizontal	15690.089	49.17	-7.79	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.

Test Mode:	TX(5.1G) -802.11ac-HT20
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Polar	Fre- quency	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	4434.066	72.74	-20.73	52.01	68.2	-16.19	PK
Vertical	4434.066	59.91	-20.73	39.18	54	-14.82	AV
Vertical	10360.145	64.60	-9.36	55.24	68.2	-12.96	PK
Vertical	10360.145	49.56	-9.36	40.20	54	-13.80	AV
Vertical	15540.164	62.63	-7.84	54.79	74	-19.21	PK
Vertical	15540.164	49.45	-7.84	41.61	54	-12.39	AV
Horizontal	4434.164	71.54	-20.73	50.81	68.2	-17.39	PK
Horizontal	4434.164	59.32	-20.73	38.59	54	-15.41	AV
Horizontal	10360.188	62.26	-9.36	52.90	68.2	-15.30	PK
Horizontal	10360.188	49.54	-9.36	40.18	54	-13.82	AV
Horizontal	15540.161	63.78	-7.84	55.94	74	-18.06	PK
Horizontal	15540.161	49.44	-7.84	41.60	54	-12.40	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.035	74.98	-20.42	54.57	74	-19.43	PK
Vertical	4592.035	59.29	-20.42	38.87	54	-15.13	AV
Vertical	10400.025	62.35	-9.30	53.05	68.2	-15.15	PK
Vertical	10400.025	49.83	-9.30	40.53	54	-13.47	AV
Vertical	15600.066	61.51	-7.82	53.69	74	-20.31	PK
Vertical	15600.066	49.48	-7.82	41.66	54	-12.34	AV
Horizontal	4592.113	73.13	-20.42	52.71	74	-21.29	PK
Horizontal	4592.113	59.39	-20.42	38.97	54	-15.03	AV
Horizontal	10400.122	63.82	-9.30	54.52	68.2	-13.68	PK
Horizontal	10400.122	49.67	-9.30	40.37	54	-13.63	AV
Horizontal	15600.001	64.63	-7.82	56.81	74	-17.19	PK
Horizontal	15600.001	49.66	-7.82	41.84	54	-12.16	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.044	72.89	-20.12	52.77	74	-21.23	PK
Vertical	4739.044	59.84	-20.12	39.72	54	-14.28	AV
Vertical	10480.041	64.72	-9.18	55.54	68.2	-12.66	PK
Vertical	10480.041	49.70	-9.18	40.52	54	-13.48	AV
Vertical	15720.136	62.20	-7.78	54.42	74	-19.58	PK
Vertical	15720.136	49.44	-7.78	41.66	54	-12.34	AV
Horizontal	4739.062	73.07	-20.12	52.95	74	-21.05	PK
Horizontal	4739.062	59.27	-20.12	39.15	54	-14.85	AV
Horizontal	10480.089	61.92	-9.18	52.74	68.2	-15.46	PK
Horizontal	10480.089	49.76	-9.18	40.58	54	-13.42	AV
Horizontal	15720.097	61.25	-7.78	53.47	74	-20.53	PK
Horizontal	15720.097	49.13	-7.78	41.35	54	-12.65	AV

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

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

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

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

Test Mode:	TX(5.1G) -802.11ac-HT40
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.085	72.35	-20.73	51.61	68.2	-16.59	PK
Vertical	4434.085	59.91	-20.73	39.18	54	-14.82	AV
Vertical	10380.118	62.37	-9.33	53.04	68.2	-15.16	PK
Vertical	10380.118	49.48	-9.33	40.15	54	-13.85	AV
Vertical	15570.033	63.96	-7.83	56.13	74	-17.87	PK
Vertical	15570.033	49.53	-7.83	41.70	54	-12.30	AV
Horizontal	4434.098	70.26	-20.73	49.53	74	-24.47	PK
Horizontal	4434.098	59.52	-20.73	38.78	54	-15.22	AV
Horizontal	10380.193	63.66	-9.33	54.33	68.2	-13.87	PK
Horizontal	10380.193	49.64	-9.33	40.31	54	-13.69	AV
Horizontal	15570.051	60.48	-7.83	52.65	74	-21.35	PK
Horizontal	15570.051	49.70	-7.83	41.87	54	-12.13	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.168	74.68	-20.12	54.56	68.2	-13.64	PK
Vertical	4739.168	59.86	-20.12	39.74	54	-14.26	AV
Vertical	10460.088	64.79	-9.21	55.58	68.2	-12.62	PK
Vertical	10460.088	49.34	-9.21	40.13	54	-13.87	AV
Vertical	15690.183	63.06	-7.79	55.27	74	-18.73	PK
Vertical	15690.183	49.02	-7.79	41.23	54	-12.77	AV
Horizontal	4739.035	73.16	-20.12	53.04	68.2	-15.16	PK
Horizontal	4739.035	59.91	-20.12	39.79	54	-14.21	AV
Horizontal	10460.167	64.60	-9.21	55.39	68.2	-12.81	PK
Horizontal	10460.167	49.51	-9.21	40.30	54	-13.70	AV
Horizontal	15690.127	63.51	-7.79	55.72	74	-18.28	PK
Horizontal	15690.127	49.80	-7.79	42.01	54	-11.99	AV

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

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

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

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

Test Mode:	TX(5.1G) -802.11ac-HT80
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
(5210 MHz)-Above 1G							
Vertical	4434.121	70.34	-20.73	49.61	68.2	-18.59	PK
Vertical	4434.121	59.42	-20.73	38.68	54	-15.32	AV
Vertical	10420.156	61.09	-9.27	51.82	68.2	-16.38	PK
Vertical	10420.156	49.12	-9.27	39.85	54	-14.15	AV
Vertical	15630.062	60.34	-7.81	52.53	74	-21.47	PK
Vertical	15630.062	49.77	-7.81	41.96	54	-12.04	AV
Horizontal	4434.116	72.49	-20.73	51.76	68.2	-16.44	PK
Horizontal	4434.116	49.23	-20.73	28.50	54	-25.50	AV
Horizontal	10420.028	42.83	9.27	52.10	68.2	-16.10	PK
Horizontal	10420.028	29.24	9.27	38.51	54	-15.49	AV
Horizontal	15630.154	60.89	-7.81	53.08	74	-20.92	PK
Horizontal	15630.154	49.15	-7.81	41.34	54	-12.66	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	Fre- quency	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	4679.125	71.16	-20.24	50.92	74	-23.08	PK
Vertical	4679.125	59.18	-20.24	38.94	54	-15.06	AV
Vertical	11490.160	62.77	-8.79	53.98	68.2	-14.22	PK
Vertical	11490.160	49.78	-8.79	40.99	54	-13.01	AV
Vertical	17235.134	59.73	-3.18	56.55	68.2	-11.65	PK
Vertical	17235.134	44.64	-3.18	41.46	54	-12.54	AV
Horizontal	4679.032	70.86	-20.73	50.13	74	-23.87	PK
Horizontal	4679.032	59.56	-20.73	38.83	54	-15.17	AV
Horizontal	11490.170	64.99	-8.79	56.20	68.2	-12.00	PK
Horizontal	11490.170	49.12	-8.79	40.33	54	-13.67	AV
Horizontal	17235.121	59.32	-3.18	56.14	68.2	-12.06	PK
Horizontal	17235.121	44.17	-3.18	40.99	54	-13.01	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.073	72.60	-20.42	52.18	74	-21.82	PK
Vertical	4592.073	59.87	-20.42	39.46	54	-14.54	AV
Vertical	11570.192	64.07	-8.86	55.21	68.2	-12.99	PK
Vertical	11570.192	49.75	-8.86	40.89	54	-13.11	AV
Vertical	17355.097	55.22	-2.52	52.70	68.2	-15.50	PK
Vertical	17355.097	44.62	-2.52	42.10	54	-11.90	AV
Horizontal	4592.021	73.08	-20.42	52.66	74	-21.34	PK
Horizontal	4592.021	59.29	-20.42	38.88	54	-15.12	AV
Horizontal	11570.079	61.42	-8.86	52.56	68.2	-15.64	PK
Horizontal	11570.079	49.53	-8.86	40.67	54	-13.33	AV
Horizontal	17355.012	58.71	-2.52	56.19	68.2	-12.01	PK
Horizontal	17355.012	44.72	-2.52	42.20	54	-11.80	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.159	73.95	-18.93	55.02	68.2	-13.18	PK
Vertical	6039.159	59.06	-18.93	40.13	54	-13.87	AV
Vertical	11650.085	63.30	-8.92	54.38	74	-19.62	PK
Vertical	11650.085	49.28	-8.92	40.36	54	-13.64	AV
Vertical	17475.177	58.52	-1.86	56.66	68.2	-11.54	PK
Vertical	17475.177	44.45	-1.86	42.59	54	-11.41	AV
Horizontal	6039.051	73.08	-18.93	54.15	68.2	-14.05	PK
Horizontal	6039.051	59.18	-18.93	40.25	54	-13.75	AV
Horizontal	11650.171	64.06	-8.92	55.14	74	-18.86	PK
Horizontal	11650.171	49.03	-8.92	40.11	54	-13.89	AV
Horizontal	17475.139	55.47	-1.86	53.61	68.2	-14.59	PK
Horizontal	17475.139	44.01	-1.86	42.15	54	-11.85	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
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Polar	Fre- quency	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	4679.033	73.47	-20.24	53.23	74	-20.77	PK
Vertical	4679.033	59.83	-20.24	39.59	54	-14.41	AV
Vertical	11490.069	62.73	-8.79	53.94	68.2	-14.26	PK
Vertical	11490.069	49.90	-8.79	41.11	54	-12.89	AV
Vertical	17235.021	58.44	-3.18	55.26	68.2	-12.94	PK
Vertical	17235.021	44.58	-3.18	41.40	54	-12.60	AV
Horizontal	4679.097	74.80	-20.24	54.55	74	-19.45	PK
Horizontal	4679.097	59.68	-20.24	39.44	54	-14.56	AV
Horizontal	11490.001	62.10	-8.79	53.31	68.2	-14.89	PK
Horizontal	11490.001	49.96	-8.79	41.17	54	-12.83	AV
Horizontal	17235.135	58.16	-3.18	54.98	68.2	-13.22	PK
Horizontal	17235.135	44.09	-3.18	40.91	54	-13.09	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.149	72.38	-20.42	51.97	74	-22.03	PK
Vertical	4592.149	59.99	-20.42	39.58	54	-14.42	AV
Vertical	11570.081	62.98	-8.86	54.12	68.2	-14.08	PK
Vertical	11570.081	49.48	-8.86	40.62	54	-13.38	AV
Vertical	17355.015	56.74	-2.52	54.22	68.2	-13.98	PK
Vertical	17355.015	44.67	-2.52	42.15	54	-11.85	AV
Horizontal	4592.057	70.26	-20.42	49.85	74	-24.15	PK
Horizontal	4592.057	59.89	-20.42	39.48	54	-14.52	AV
Horizontal	11570.102	64.13	-8.86	55.27	68.2	-12.93	PK
Horizontal	11570.102	49.53	-8.86	40.67	54	-13.33	AV
Horizontal	17355.025	58.33	-2.52	55.81	68.2	-12.39	PK
Horizontal	17355.025	44.29	-2.52	41.77	54	-12.23	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.059	71.18	-18.93	52.24	68.2	-15.96	PK
Vertical	6039.059	59.74	-18.93	40.81	54	-13.19	AV
Vertical	11650.097	64.62	-8.92	55.70	74	-18.30	PK
Vertical	11650.097	49.14	-8.92	40.22	54	-13.78	AV
Vertical	17475.034	59.50	-1.86	57.64	68.2	-10.56	PK
Vertical	17475.034	44.18	-1.86	42.32	54	-11.68	AV
Horizontal	6039.015	71.78	-18.93	52.85	68.2	-15.35	PK
Horizontal	6039.015	59.48	-18.93	40.55	54	-13.45	AV
Horizontal	11650.132	60.78	-8.92	51.86	74	-22.14	PK
Horizontal	11650.132	49.72	-8.92	40.80	54	-13.20	AV
Horizontal	17475.124	57.89	-1.86	56.03	68.2	-12.17	PK
Horizontal	17475.124	44.19	-1.86	42.33	54	-11.67	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)	Fre- quency (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	4679.164	71.46	-20.24	51.22	74	-22.78	PK
Vertical	4679.164	59.40	-20.24	39.16	54	-14.84	AV
Vertical	11510.011	64.23	-8.81	55.42	74	-18.58	PK
Vertical	11510.011	49.54	-8.81	40.73	54	-13.27	AV
Vertical	17265.190	56.00	-3.01	52.99	68.2	-15.21	PK
Vertical	17265.190	44.71	-3.01	41.70	54	-12.30	AV
Horizontal	4679.000	71.98	-20.24	51.74	74	-22.26	PK
Horizontal	4679.000	59.42	-20.24	39.18	54	-14.82	AV
Horizontal	11510.167	62.77	-8.81	53.96	74	-20.04	PK
Horizontal	11510.167	49.33	-8.81	40.52	54	-13.48	AV
Horizontal	17265.197	58.10	-3.01	55.09	68.2	-13.11	PK
Horizontal	17265.197	44.02	-3.01	41.01	54	-12.99	AV
High Channel (5795 MHz)-Above 1G							
Vertical	6039.130	73.54	-18.93	54.60	68.2	-13.60	PK
Vertical	6039.130	59.82	-18.93	40.89	54	-13.11	AV
Vertical	11590.028	64.46	-8.87	55.59	74	-18.41	PK
Vertical	11590.028	49.33	-8.87	40.46	54	-13.54	AV
Vertical	17385.179	59.65	-2.35	57.30	68.2	-10.90	PK
Vertical	17385.179	44.27	-2.35	41.92	54	-12.08	AV
Horizontal	6039.095	73.69	-18.93	54.76	68.2	-13.44	PK
Horizontal	6039.095	59.80	-18.93	40.87	54	-13.13	AV
Horizontal	11590.066	60.51	-8.87	51.64	74	-22.36	PK
Horizontal	11590.066	49.26	-8.87	40.39	54	-13.61	AV
Horizontal	17385.129	59.13	-2.35	56.78	68.2	-11.42	PK
Horizontal	17385.129	44.72	-2.35	42.37	54	-11.63	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 (5.8G) -- 802.11ac-HT20
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Polar (H/V)	Fre- quency (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	4679.130	72.92	-20.24	52.67	74	-21.33	PK
Vertical	4679.130	59.87	-20.24	39.63	54	-14.37	AV
Vertical	11490.024	63.23	-8.79	54.44	68.2	-13.76	PK
Vertical	11490.024	49.03	-8.79	40.24	54	-13.76	AV
Vertical	17235.119	55.92	-3.18	52.74	68.2	-15.46	PK
Vertical	17235.119	44.34	-3.18	41.16	54	-12.84	AV
Horizontal	4679.119	73.10	-20.24	52.85	74	-21.15	PK
Horizontal	4679.119	59.77	-20.24	39.53	54	-14.47	AV
Horizontal	11490.046	60.67	-8.79	51.88	68.2	-16.32	PK
Horizontal	11490.046	49.81	-8.79	41.02	54	-12.98	AV
Horizontal	17235.171	55.48	-3.18	52.30	68.2	-15.90	PK
Horizontal	17235.171	44.54	-3.18	41.36	54	-12.64	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.123	70.48	-20.42	50.06	74	-23.94	PK
Vertical	4592.123	59.86	-20.42	39.45	54	-14.55	AV
Vertical	11570.101	61.89	-8.86	53.03	68.2	-15.17	PK
Vertical	11570.101	49.40	-8.86	40.54	54	-13.46	AV
Vertical	17355.164	58.30	-2.52	55.78	68.2	-12.42	PK
Vertical	17355.164	44.41	-2.52	41.89	54	-12.11	AV
Horizontal	4592.177	74.32	-20.42	53.91	74	-20.09	PK
Horizontal	4592.177	59.14	-20.42	38.73	54	-15.27	AV
Horizontal	11570.071	61.17	-8.86	52.31	68.2	-15.89	PK
Horizontal	11570.071	49.03	-8.86	40.17	54	-13.83	AV
Horizontal	17355.071	55.16	-2.52	52.64	68.2	-15.56	PK
Horizontal	17355.071	44.63	-2.52	42.11	54	-11.89	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.081	73.54	-18.93	54.61	68.2	-13.59	PK
Vertical	6039.081	59.29	-18.93	40.36	54	-13.64	AV
Vertical	11650.032	62.81	-8.92	53.89	74	-20.11	PK
Vertical	11650.032	49.48	-8.92	40.56	54	-13.44	AV
Vertical	17475.137	57.67	-1.86	55.81	68.2	-12.39	PK
Vertical	17475.137	44.76	-1.86	42.90	54	-11.10	AV
Horizontal	6039.057	70.34	-18.93	51.41	68.2	-16.79	PK
Horizontal	6039.057	59.44	-18.93	40.51	54	-13.49	AV
Horizontal	11650.105	63.42	-8.92	54.50	74	-19.50	PK
Horizontal	11650.105	49.86	-8.92	40.94	54	-13.06	AV
Horizontal	17475.183	56.15	-1.86	54.29	68.2	-13.91	PK
Horizontal	17475.183	44.36	-1.86	42.50	54	-11.50	AV

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

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

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

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

Test Mode:	TX (5.8G) -- 802.11ac-HT40
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Polar (H/V)	Fre- quency (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	4679.075	73.45	-20.24	53.21	74	-20.79	PK
Vertical	4679.075	59.67	-20.24	39.43	54	-14.57	AV
Vertical	11510.003	63.68	-8.81	54.87	74	-19.13	PK
Vertical	11510.003	49.90	-8.81	41.09	54	-12.91	AV
Vertical	17265.185	59.17	-3.01	56.16	68.2	-12.04	PK
Vertical	17265.185	44.89	-3.01	41.88	54	-12.12	AV
Horizontal	4679.163	70.26	-20.24	50.02	74	-23.98	PK
Horizontal	4679.163	59.78	-20.24	39.54	54	-14.46	AV
Horizontal	11510.071	61.86	-8.81	53.05	74	-20.95	PK
Horizontal	11510.071	49.30	-8.81	40.49	54	-13.51	AV
Horizontal	17265.097	55.04	-3.01	52.03	68.2	-16.17	PK
Horizontal	17265.097	44.87	-3.01	41.86	54	-12.14	AV
High Channel (5795 MHz)-Above 1G							
Vertical	6039.174	70.61	-18.93	51.68	68.2	-16.52	PK
Vertical	6039.174	59.60	-18.93	40.67	54	-13.33	AV
Vertical	11590.006	61.86	-8.87	52.99	74	-21.01	PK
Vertical	11590.006	49.61	-8.87	40.74	54	-13.26	AV
Vertical	17385.191	56.46	-2.35	54.11	68.2	-14.09	PK
Vertical	17385.191	44.07	-2.35	41.72	54	-12.28	AV
Horizontal	6039.183	73.25	-18.93	54.31	68.2	-13.89	PK
Horizontal	6039.183	59.51	-18.93	40.58	54	-13.42	AV
Horizontal	11590.134	63.25	-8.87	54.38	74	-19.62	PK
Horizontal	11590.134	49.23	-8.87	40.36	54	-13.64	AV
Horizontal	17385.189	58.25	-2.35	55.90	68.2	-12.30	PK
Horizontal	17385.189	44.51	-2.35	42.16	54	-11.84	AV

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

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

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

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

Test Mode:	TX (5.8G) -- 802.11ac-HT80
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
(5775 MHz)-Above 1G							
Vertical	4679.135	71.72	-20.24	51.48	74	-22.52	PK
Vertical	4679.135	59.27	-20.24	39.03	54	-14.97	AV
Vertical	11550.015	63.78	-8.84	54.94	74	-19.06	PK
Vertical	11550.015	49.67	-8.84	40.83	54	-13.17	AV
Vertical	17325.180	58.97	-2.68	56.29	68.2	-11.91	PK
Vertical	17325.180	44.27	-2.68	41.59	54	-12.41	AV
Horizontal	4679.198	72.12	-20.24	51.88	74	-22.12	PK
Horizontal	4679.198	59.95	-20.24	39.71	54	-14.29	AV
Horizontal	11550.046	61.29	-8.84	52.45	74	-21.55	PK
Horizontal	11550.046	49.87	-8.84	41.03	54	-12.97	AV
Horizontal	17325.088	58.01	-2.68	55.33	68.2	-12.87	PK
Horizontal	17325.088	44.64	-2.68	41.96	54	-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.

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 colocated 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

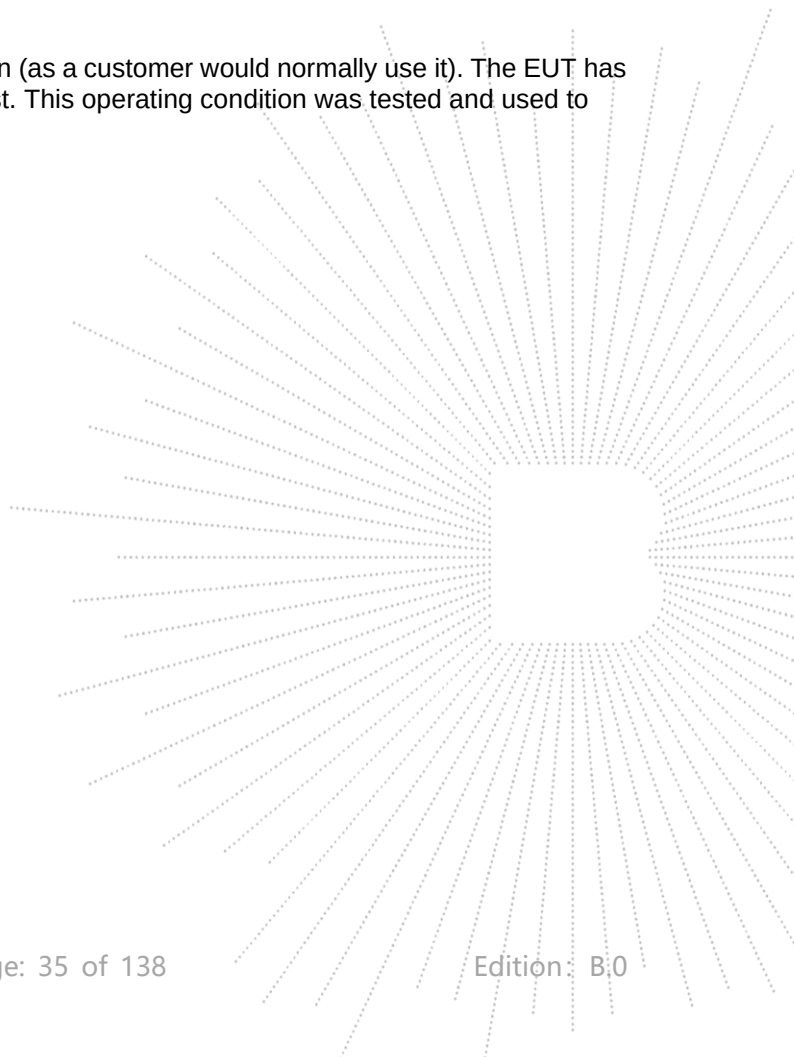
For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of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

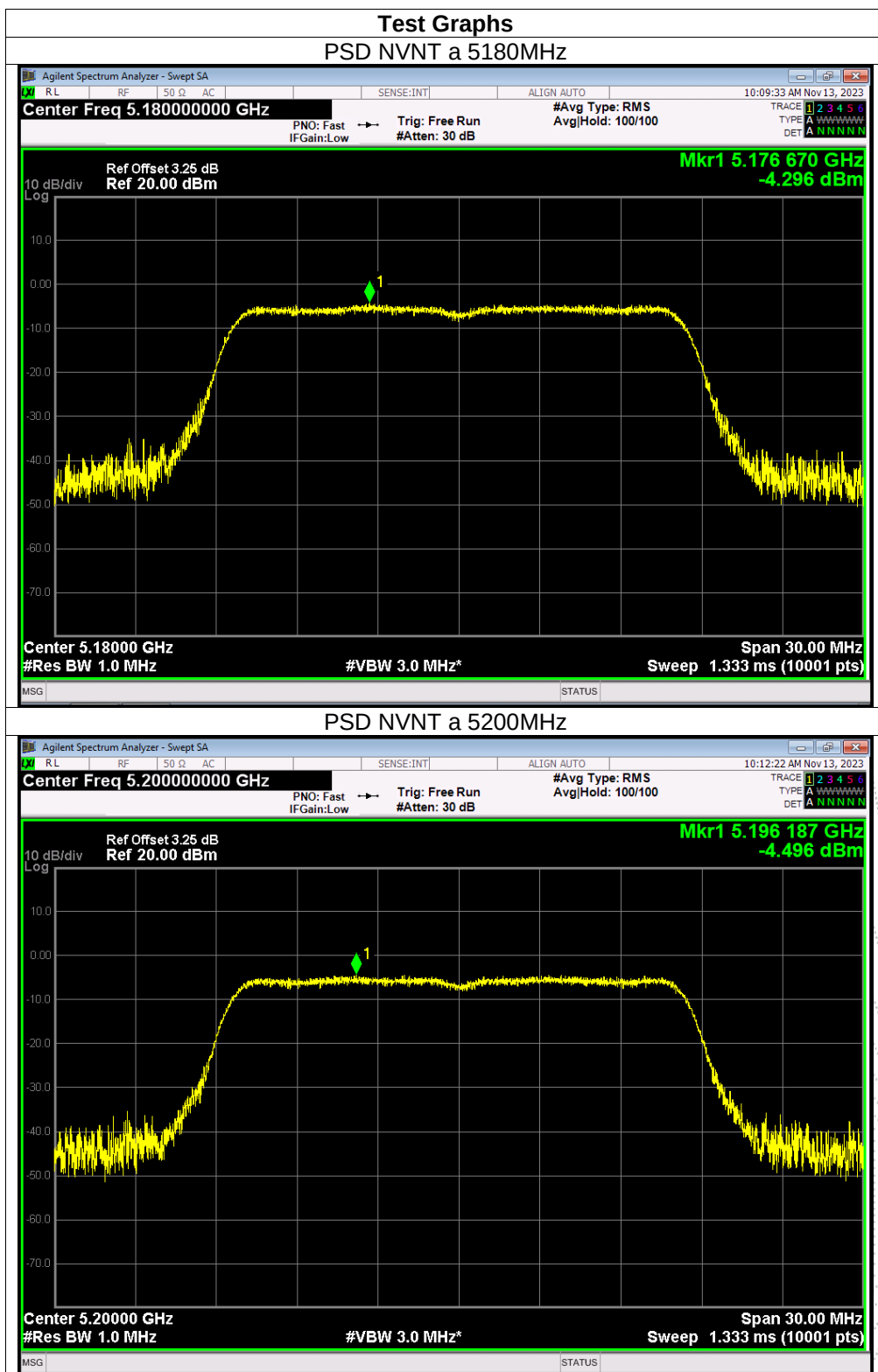


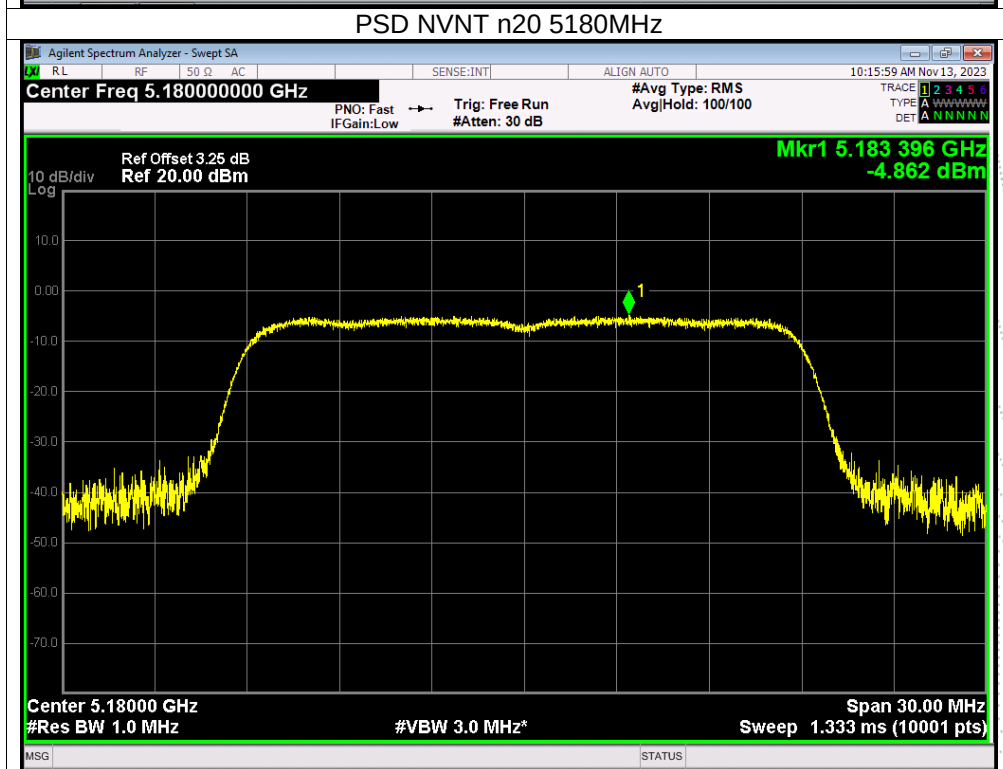
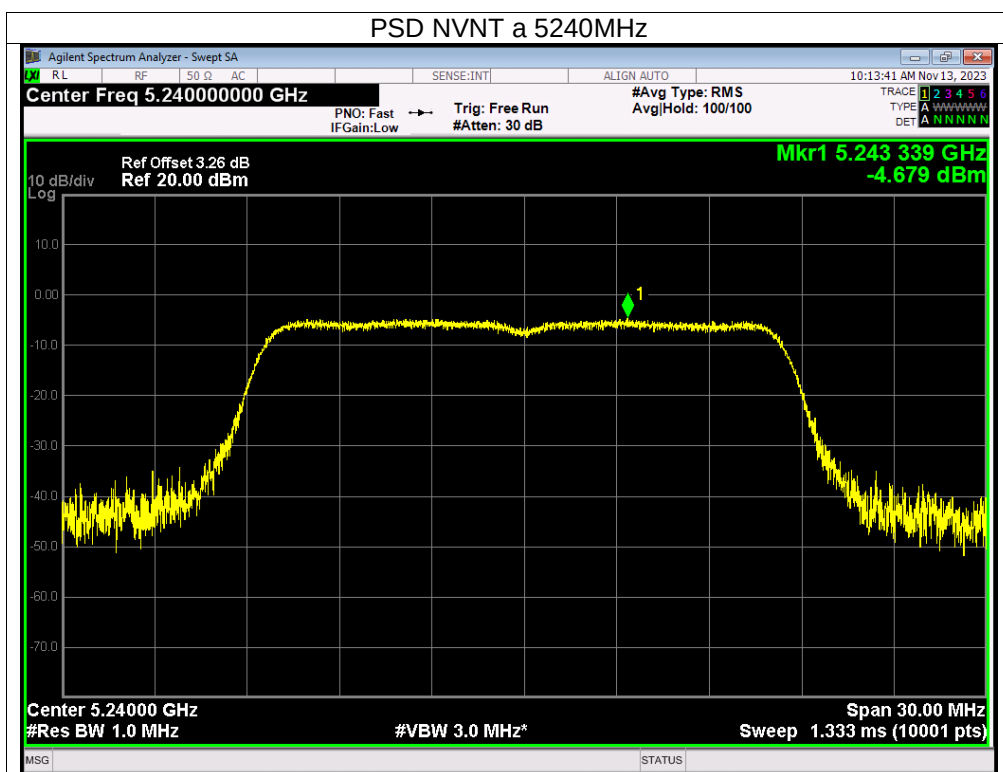
8.5 Test Result

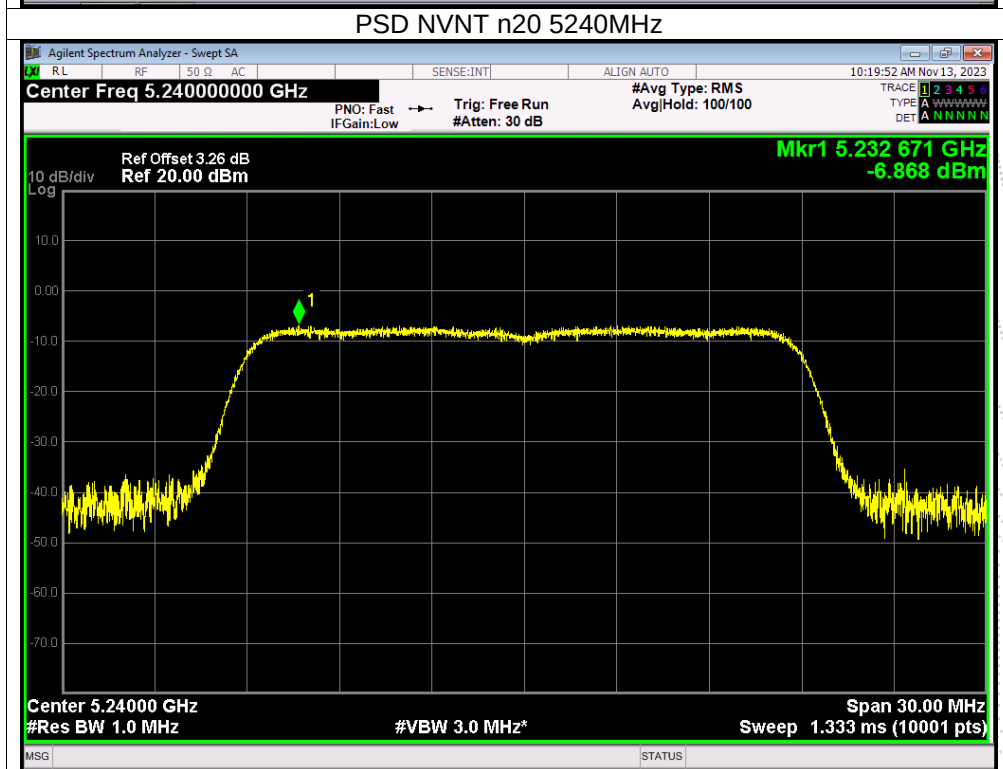
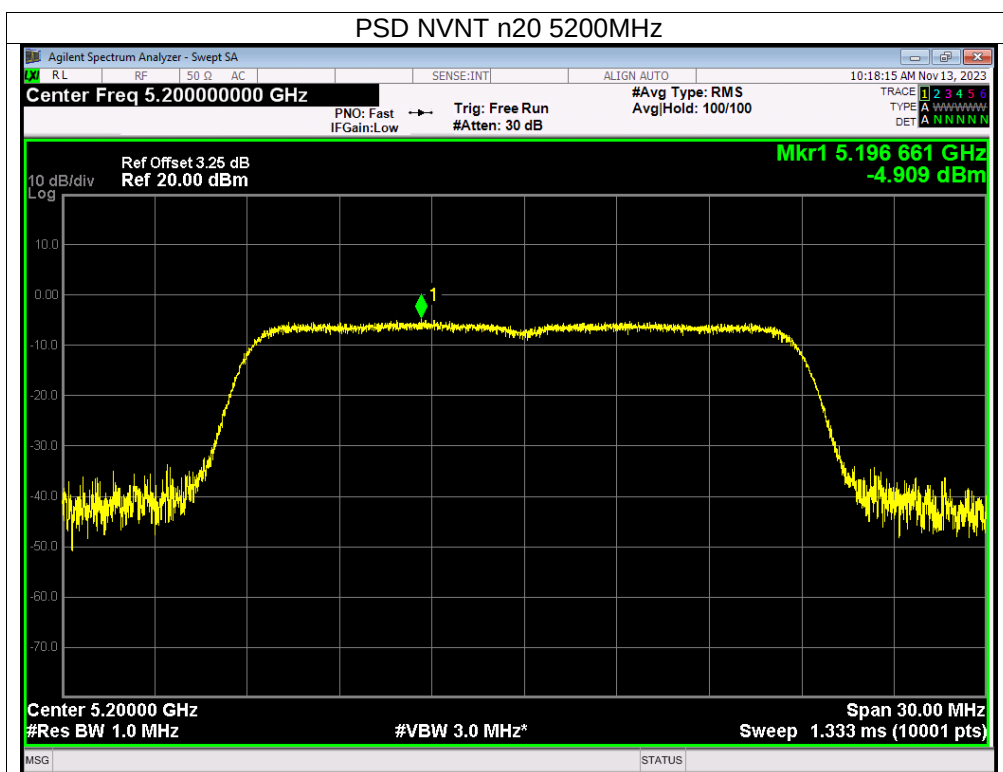
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.8V
Test Mode:	(5180-5240MHz); (5745-5825MHz)		

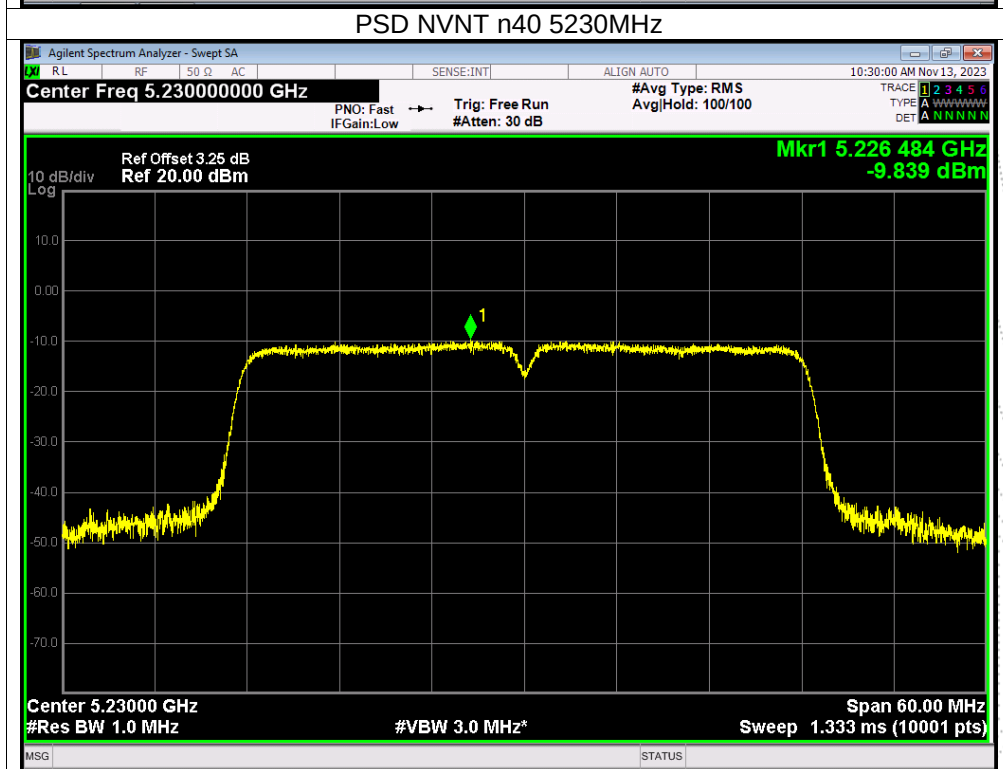
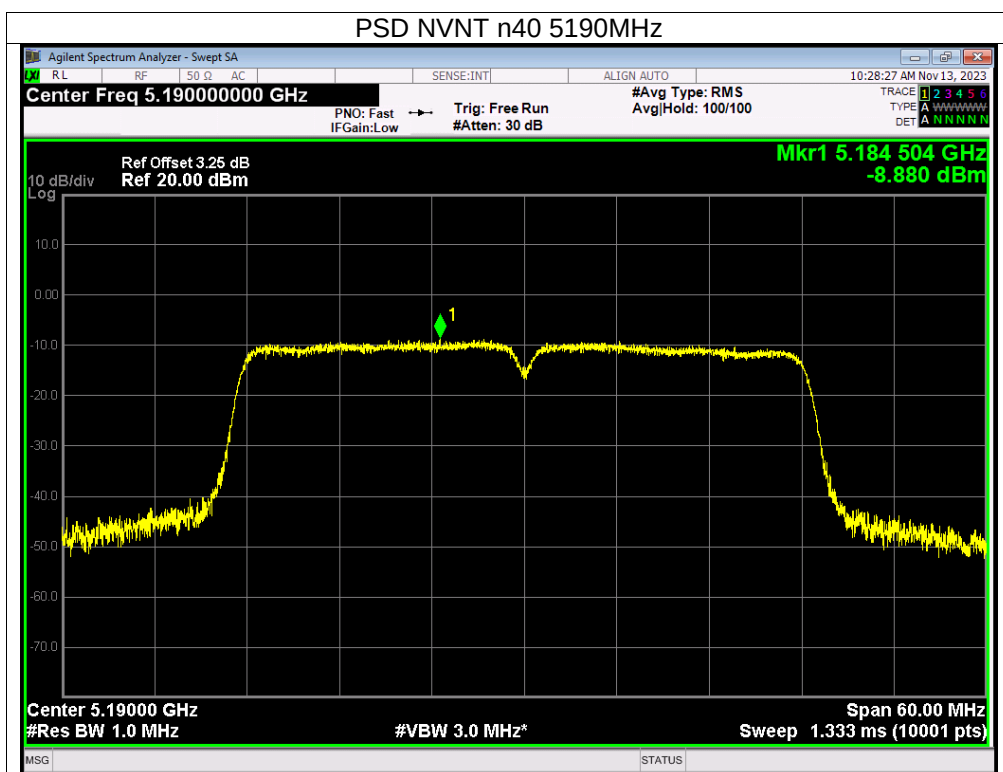
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	-4.3	11	Pass
NVNT	a	5200	-4.5	11	Pass
NVNT	a	5240	-4.68	11	Pass
NVNT	n20	5180	-4.86	11	Pass
NVNT	n20	5200	-4.91	11	Pass
NVNT	n20	5240	-6.87	11	Pass
NVNT	n40	5190	-8.88	11	Pass
NVNT	n40	5230	-9.84	11	Pass
NVNT	ac20	5180	-4.92	11	Pass
NVNT	ac20	5200	-5.91	11	Pass
NVNT	ac20	5240	-6.46	11	Pass
NVNT	ac40	5190	-9.12	11	Pass
NVNT	ac40	5230	-9.87	11	Pass
NVNT	ac80	5210	-14.55	11	Pass

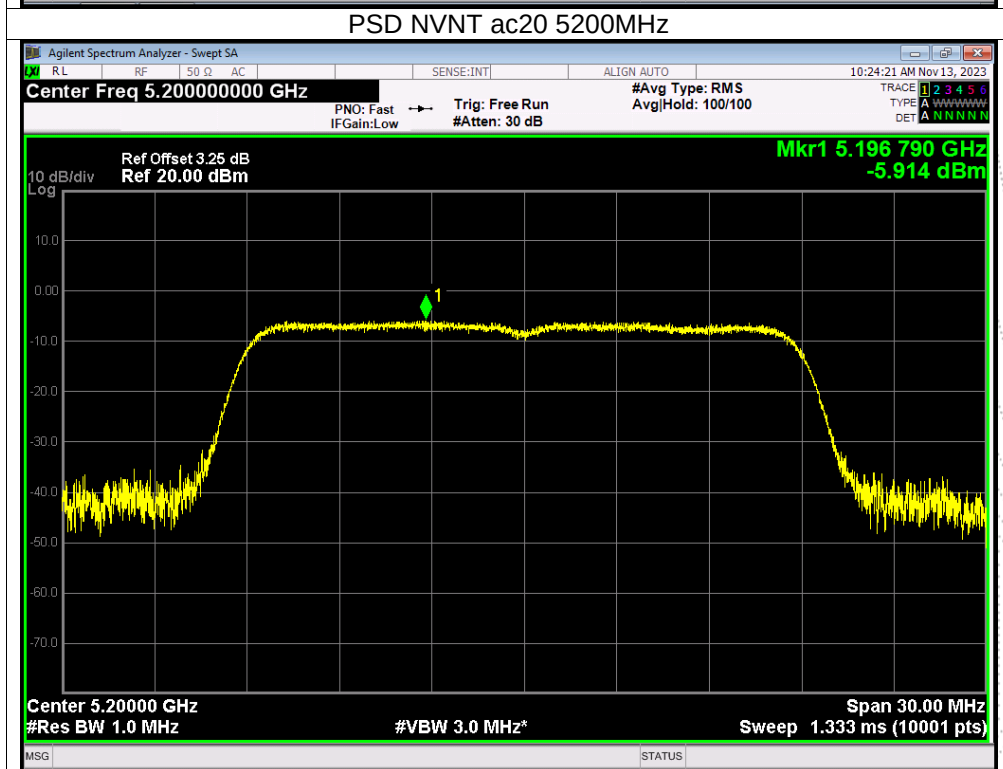
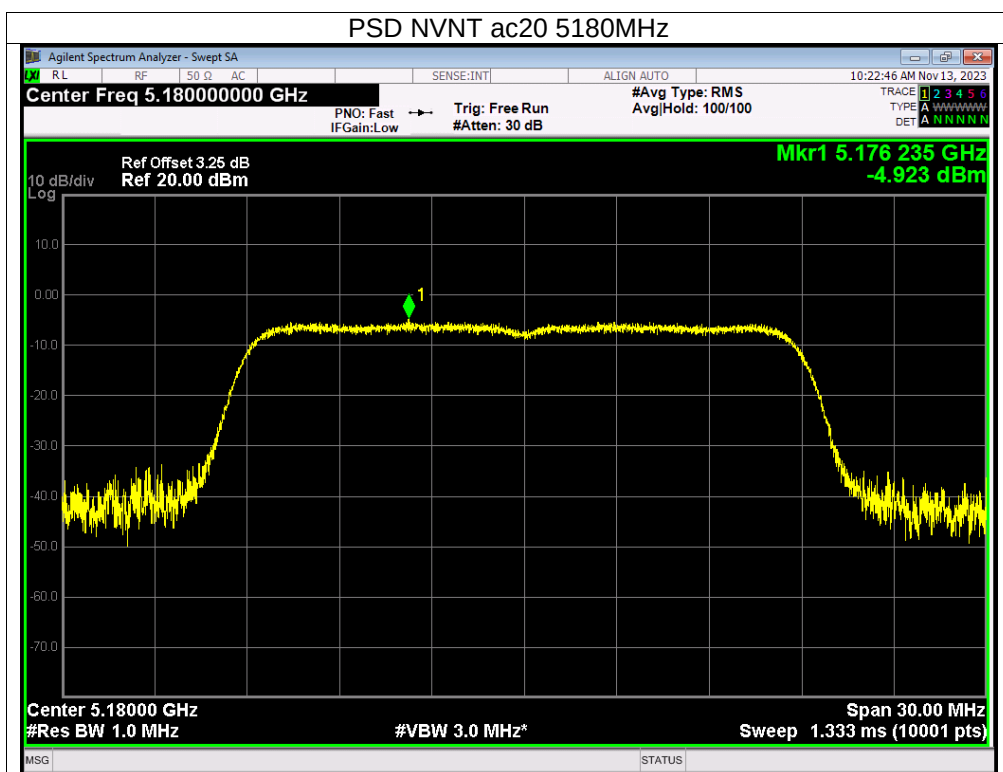
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	-7.84	30	Pass
NVNT	a	5785	-9.07	30	Pass
NVNT	a	5825	-10.16	30	Pass
NVNT	n20	5745	-8.2	30	Pass
NVNT	n20	5785	-9.83	30	Pass
NVNT	n20	5825	-10.93	30	Pass
NVNT	n40	5755	-11.9	30	Pass
NVNT	n40	5795	-13.76	30	Pass
NVNT	ac20	5745	-8.32	30	Pass
NVNT	ac20	5785	-9.67	30	Pass
NVNT	ac20	5825	-10.6	30	Pass
NVNT	ac40	5755	-12.33	30	Pass
NVNT	ac40	5795	-13.3	30	Pass
NVNT	ac80	5775	-16.8	30	Pass

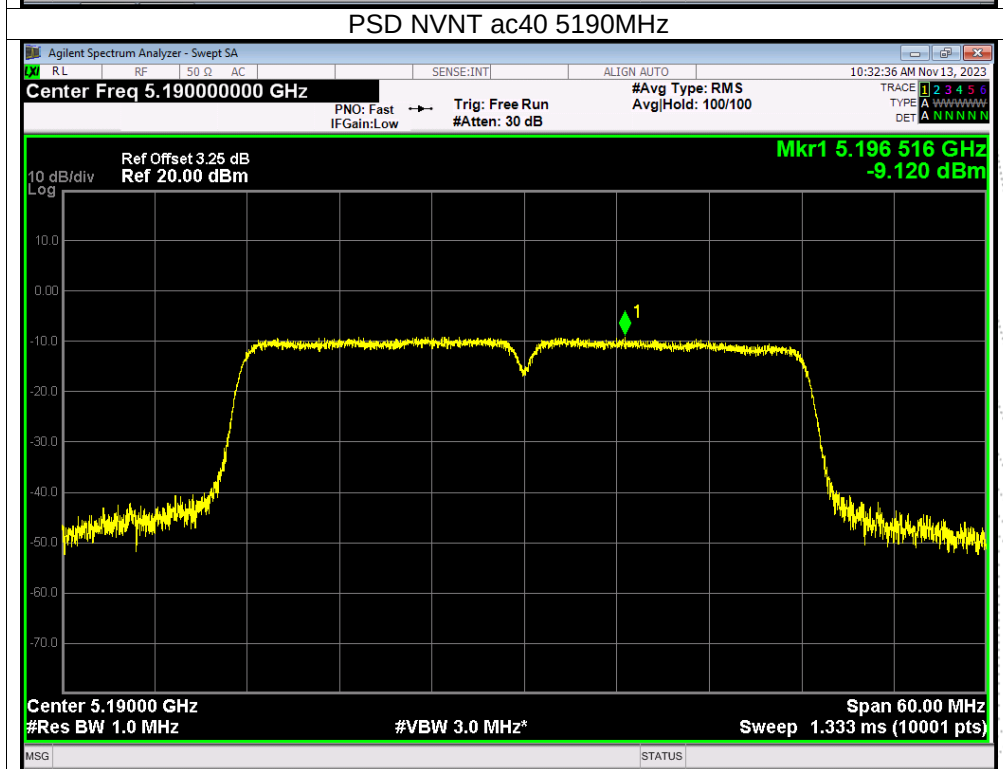
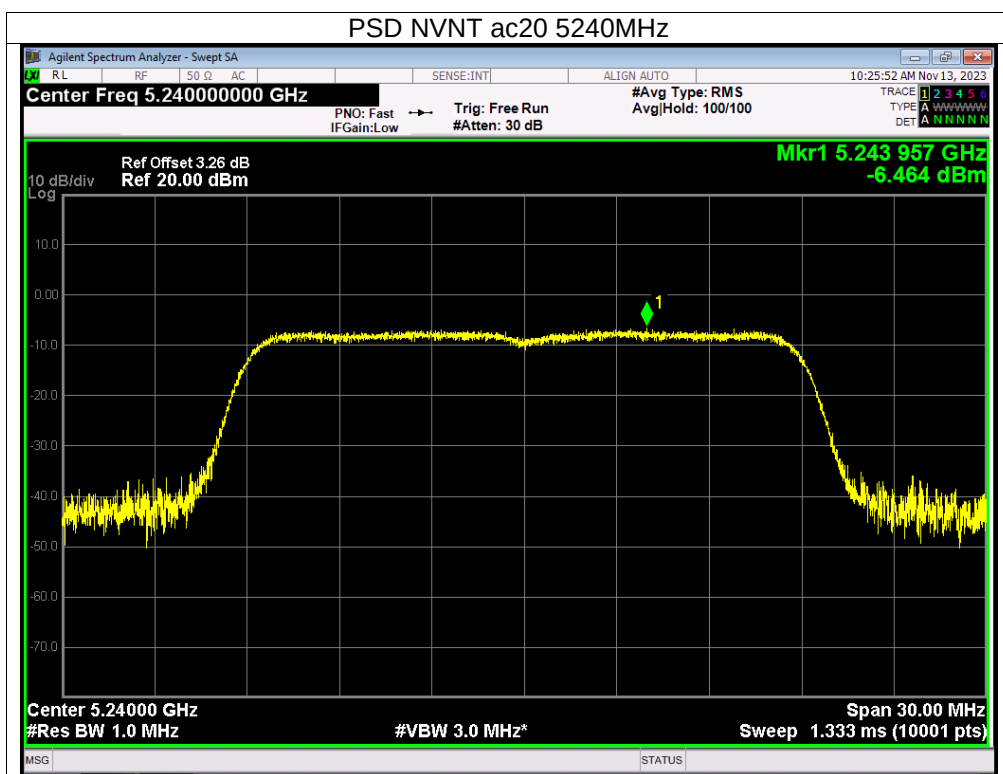


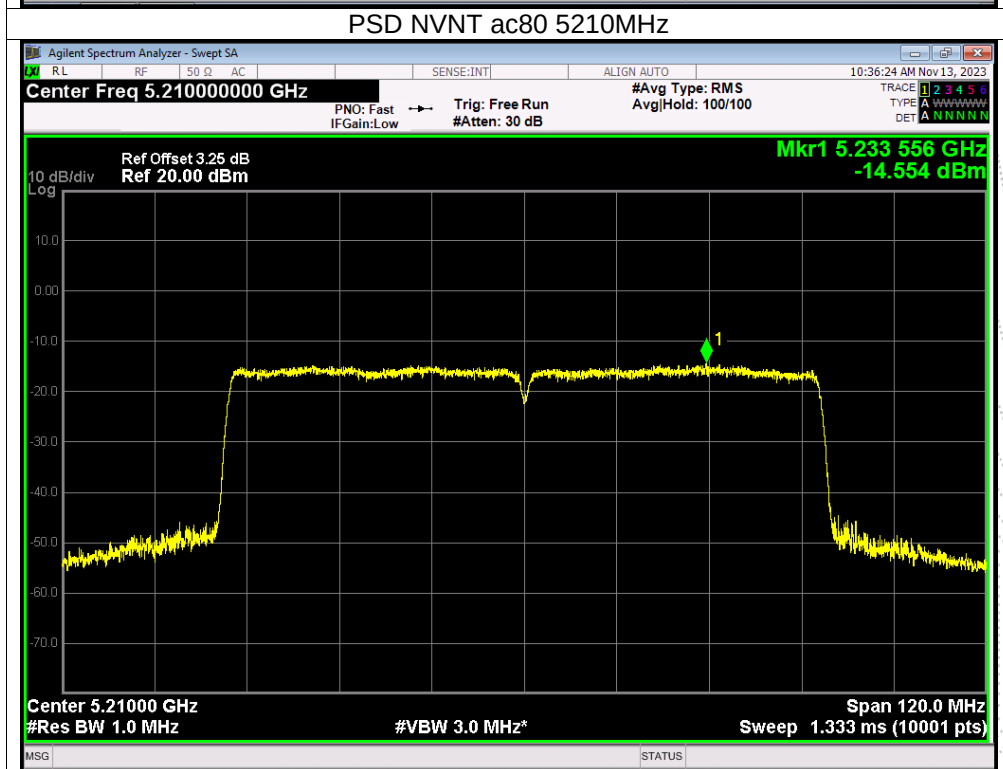
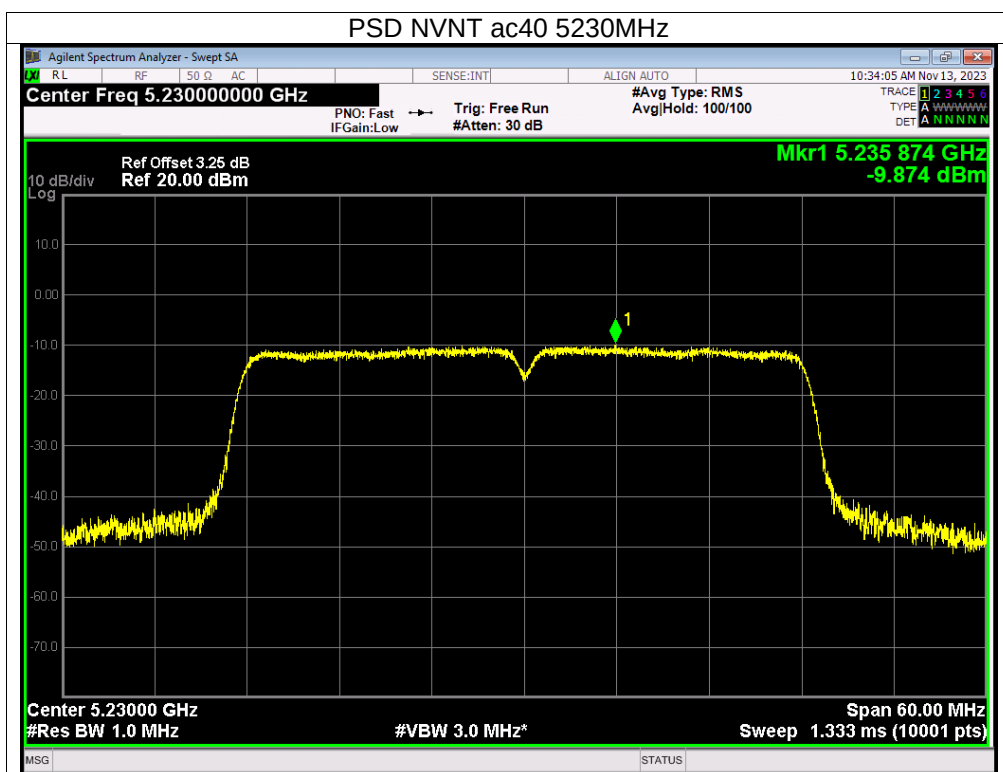


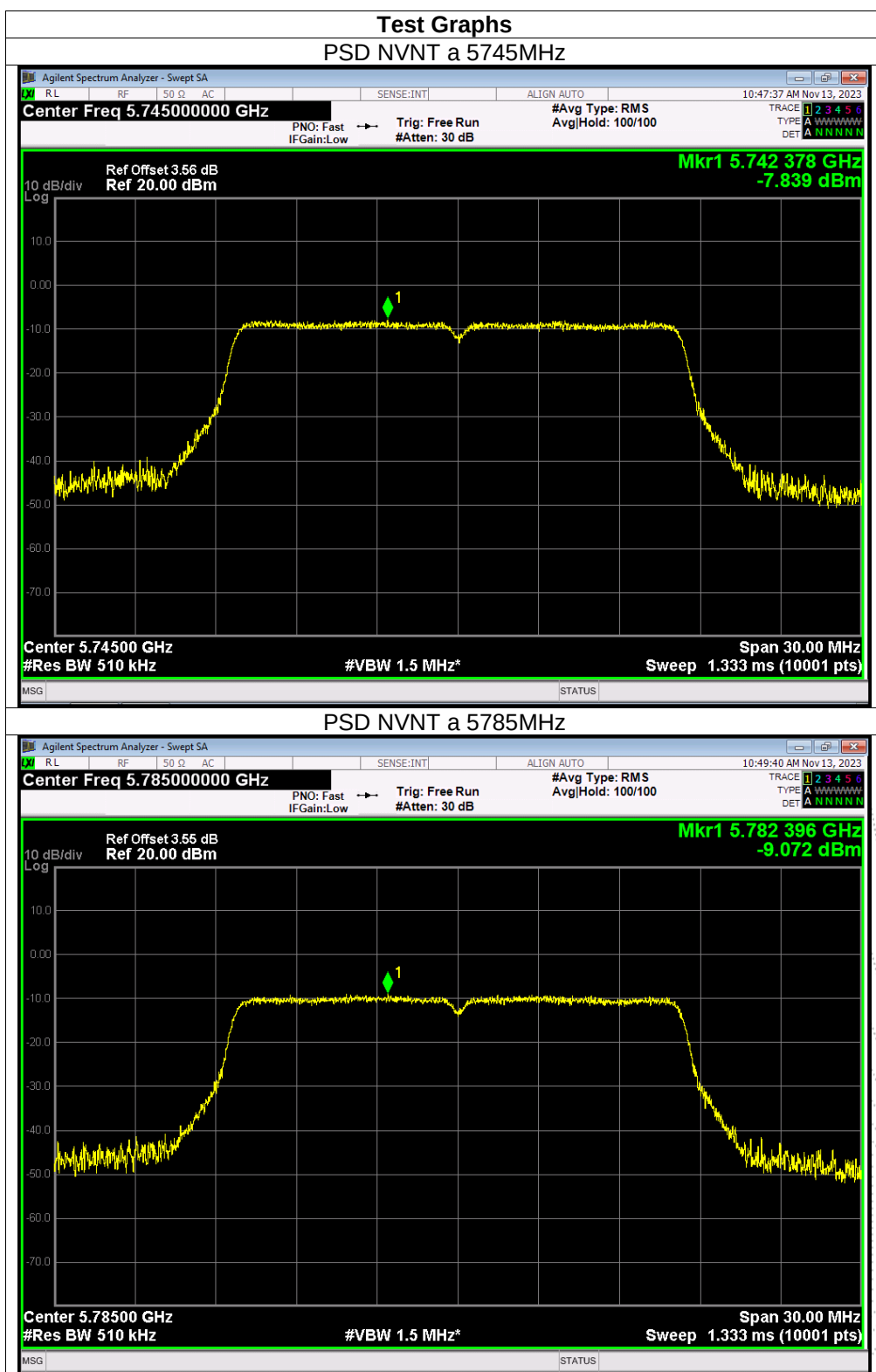


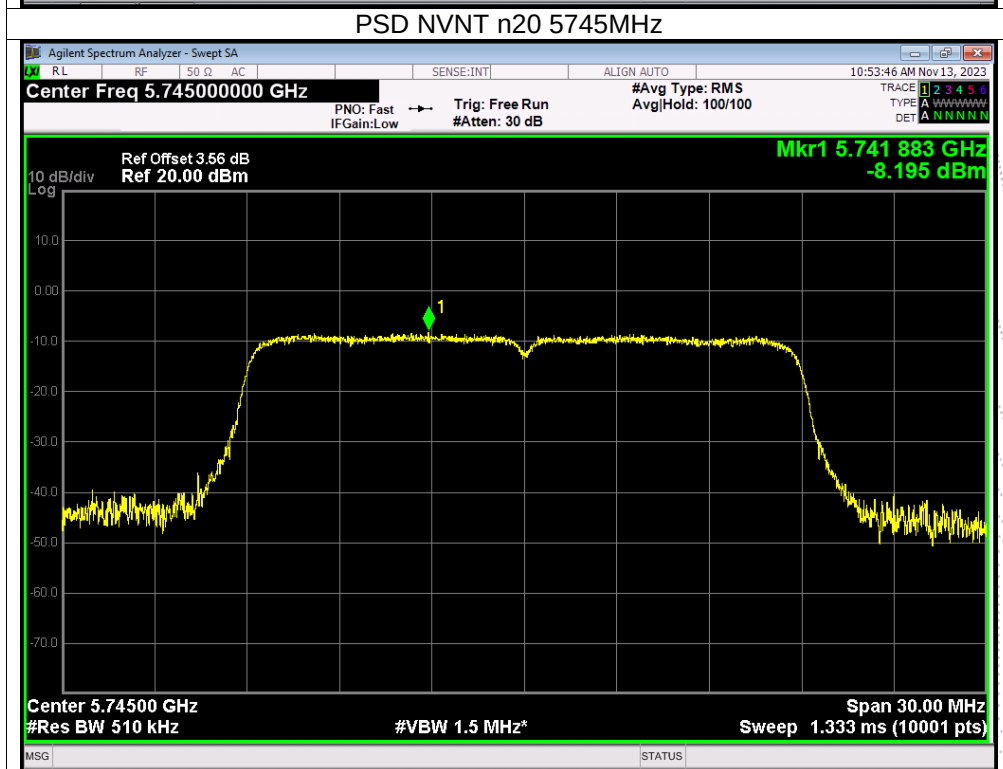
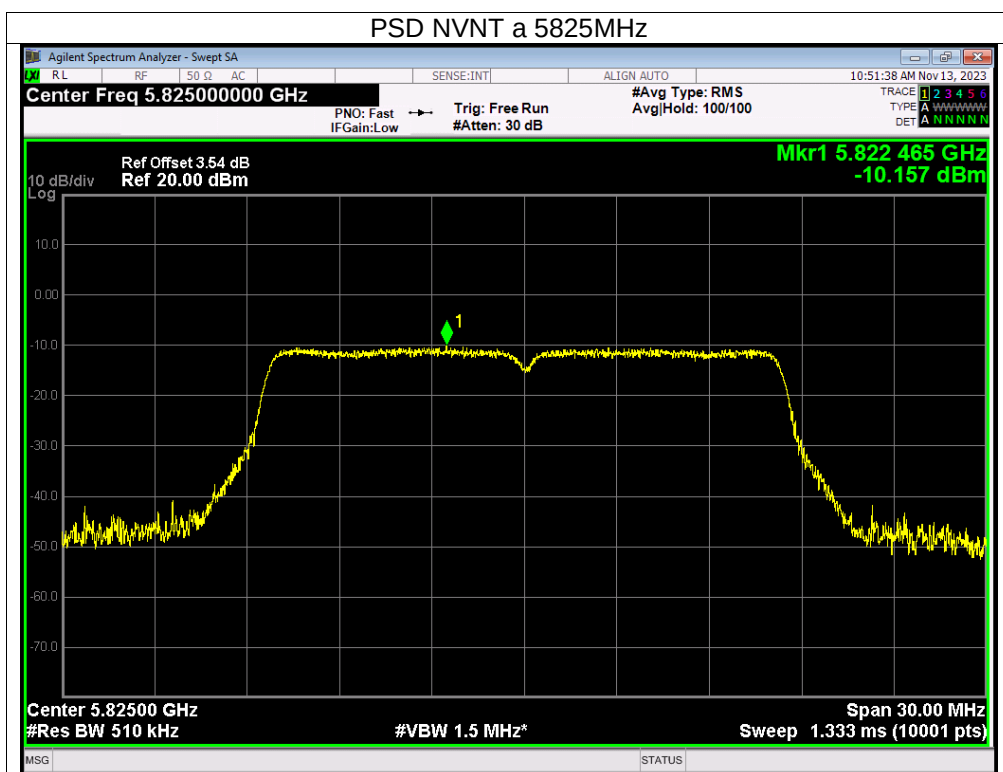


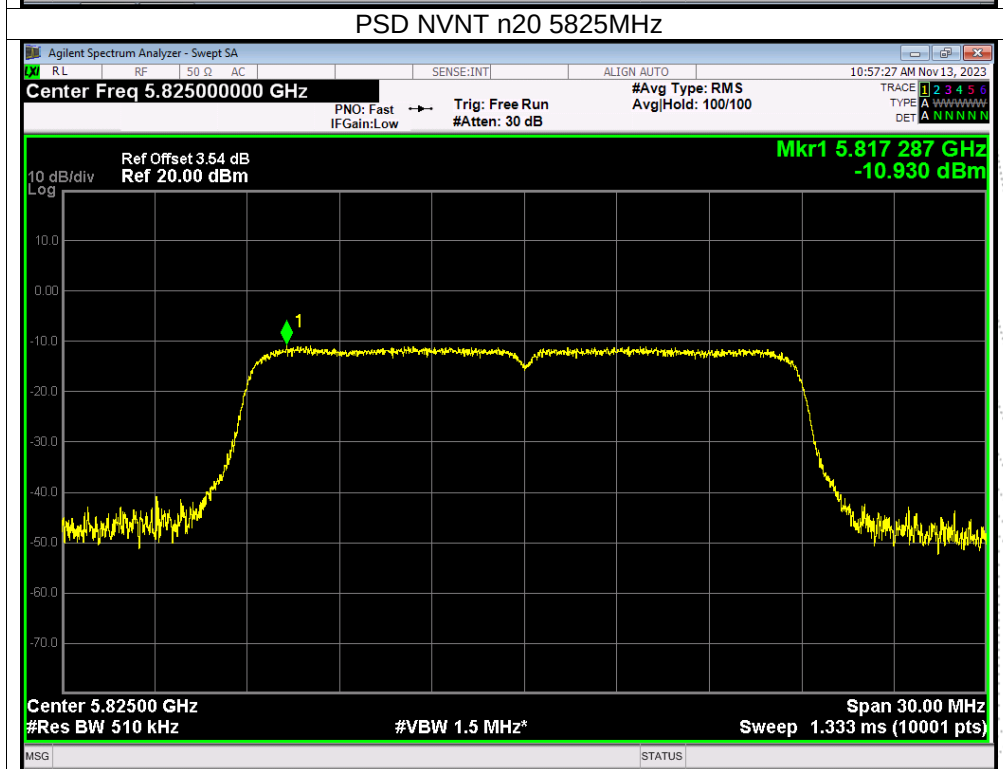
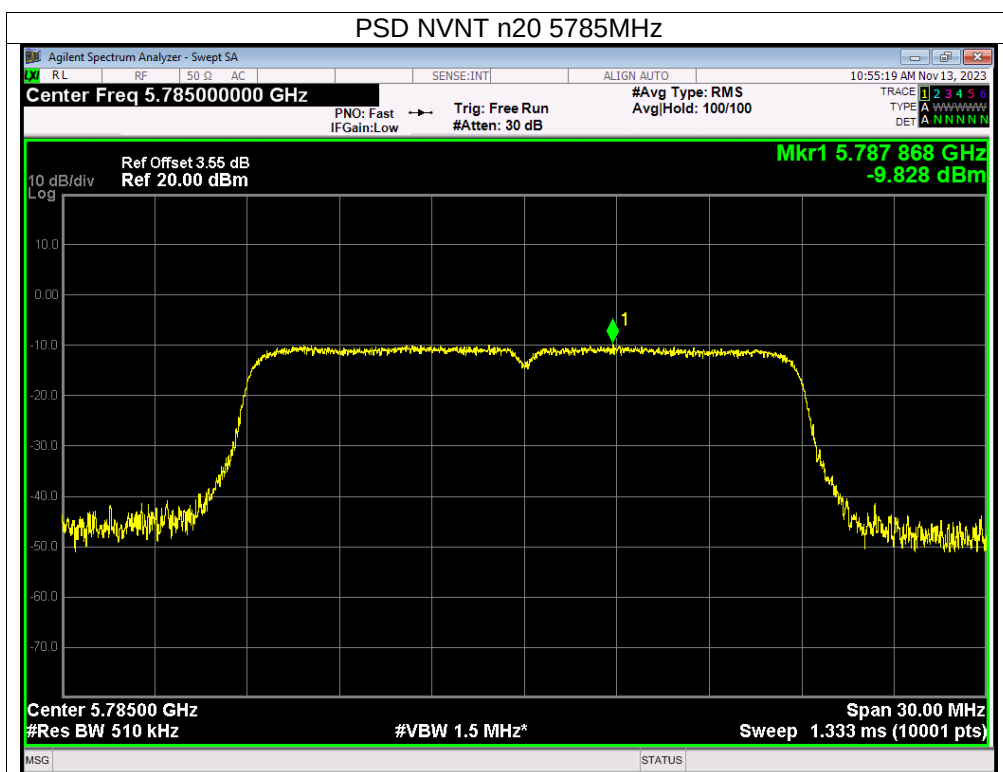


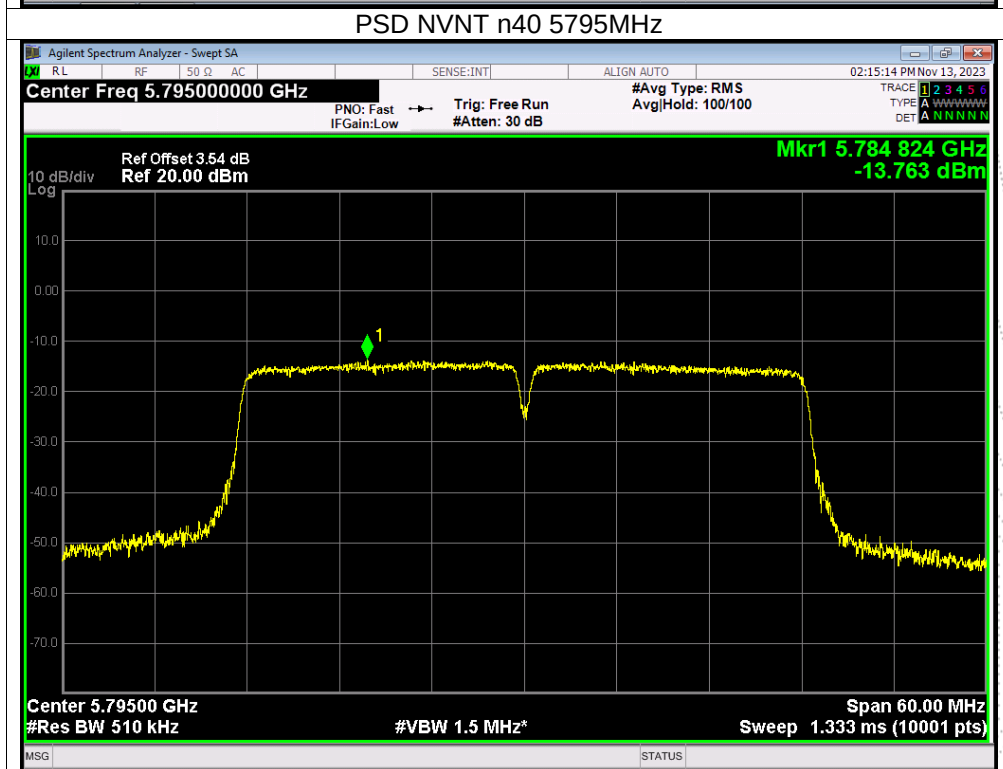
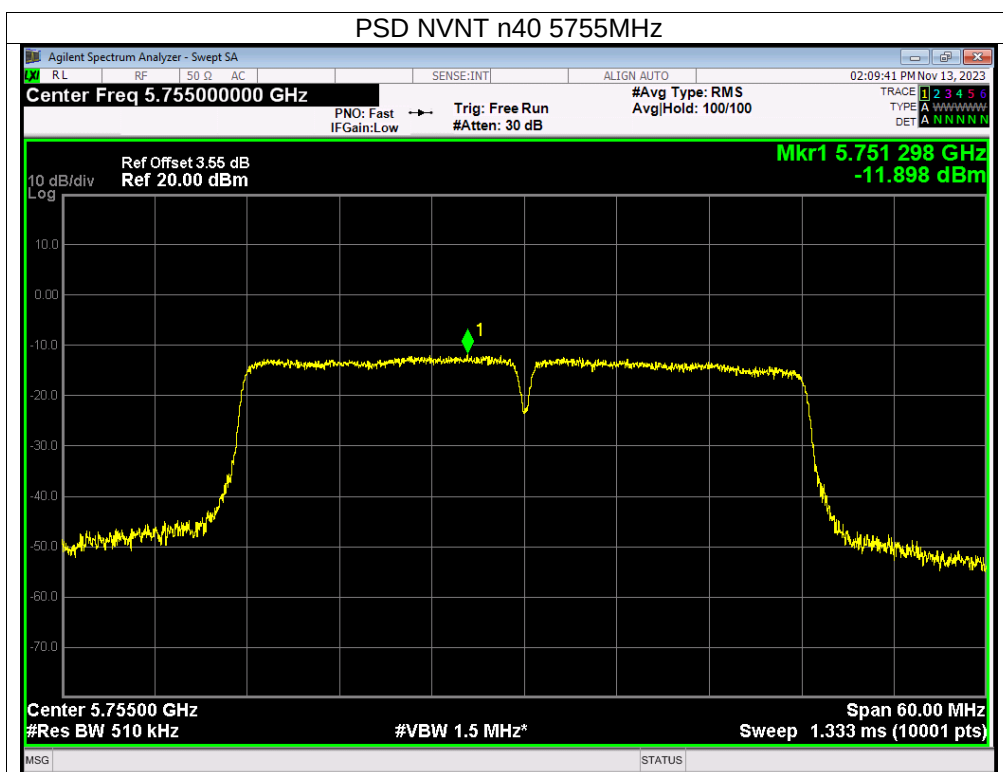


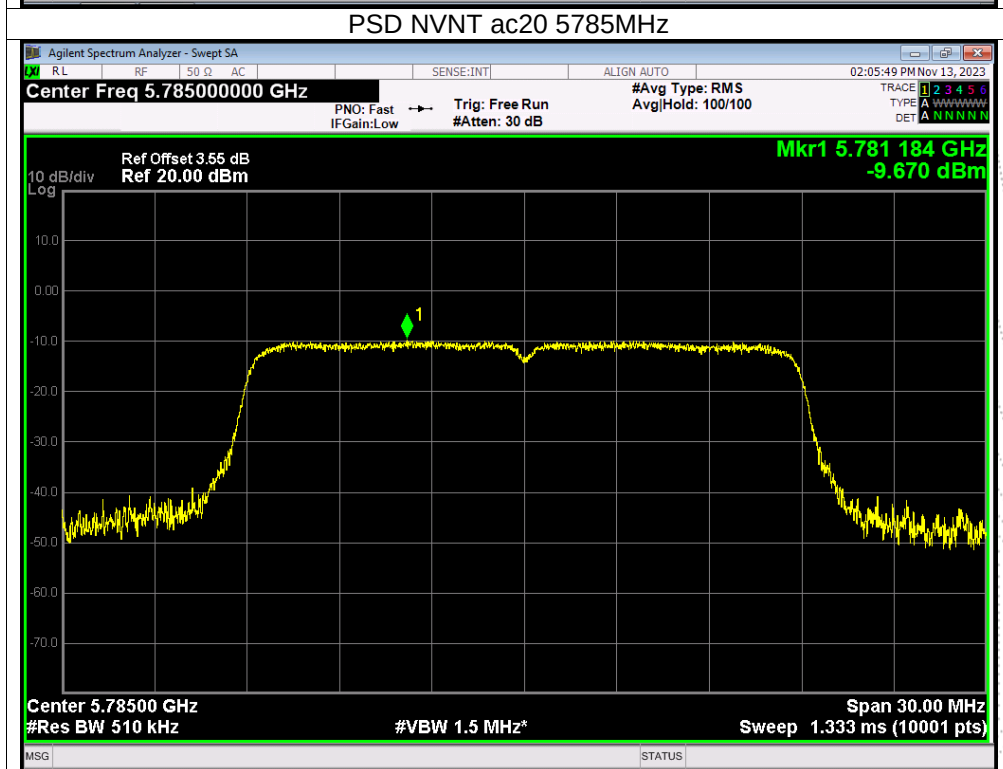
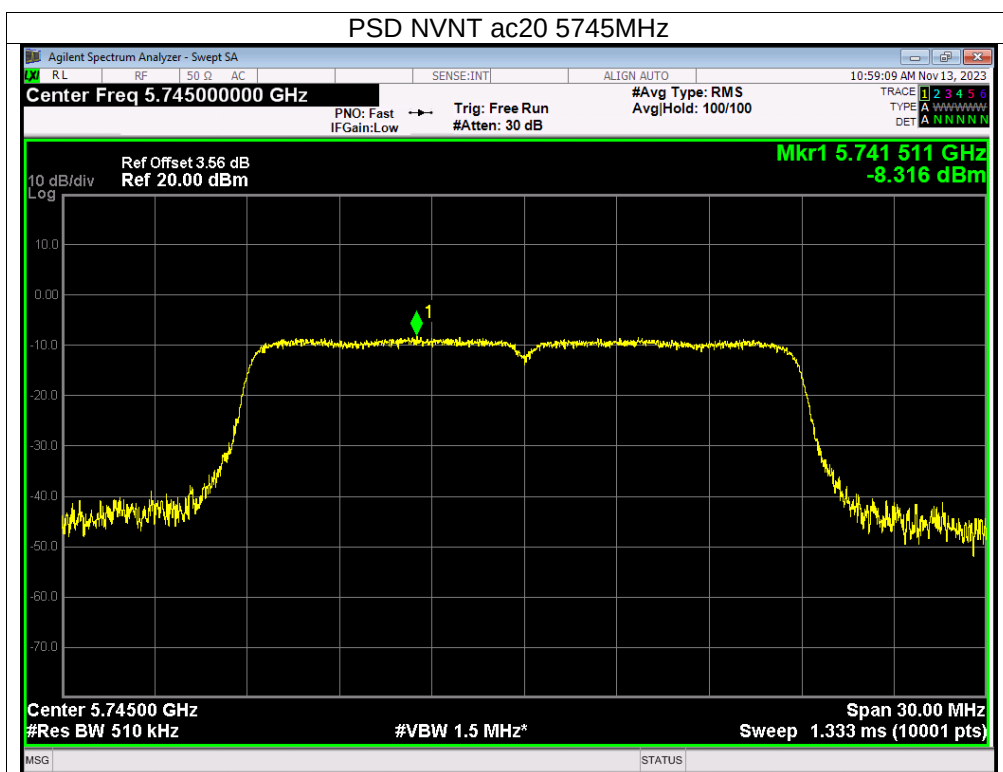


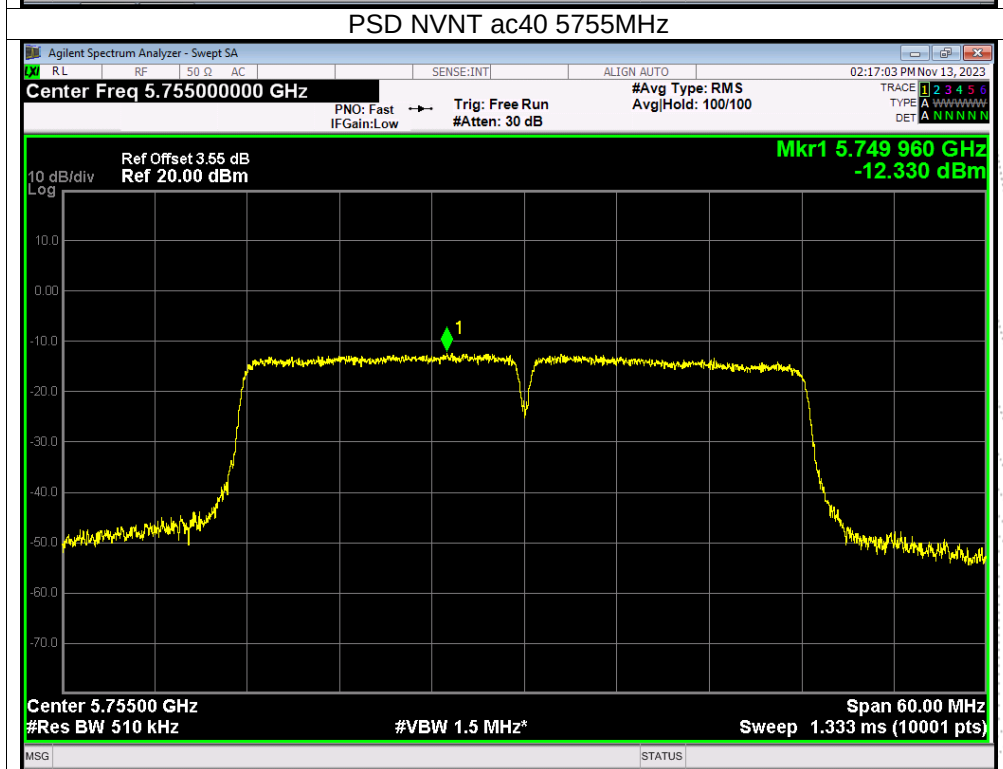
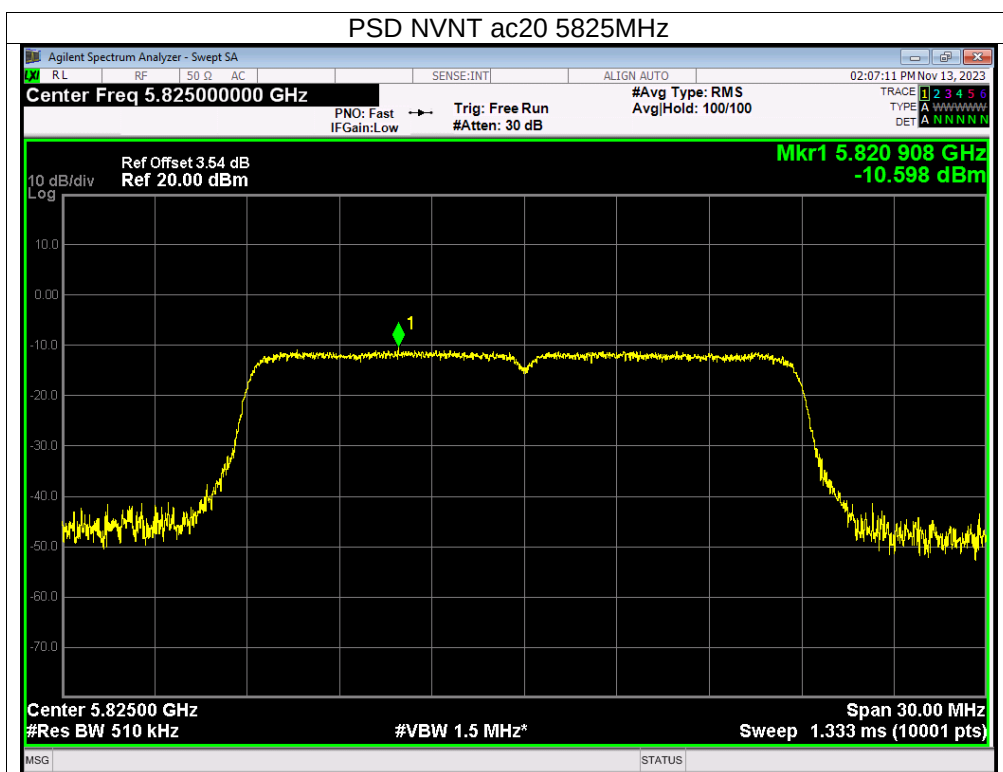


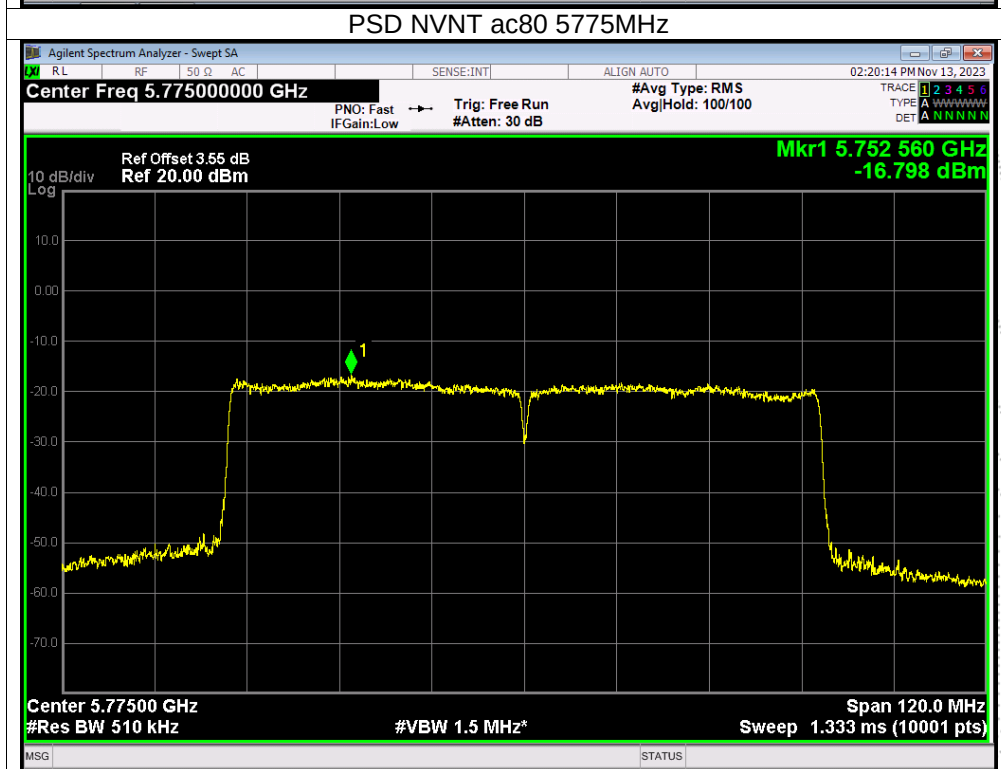
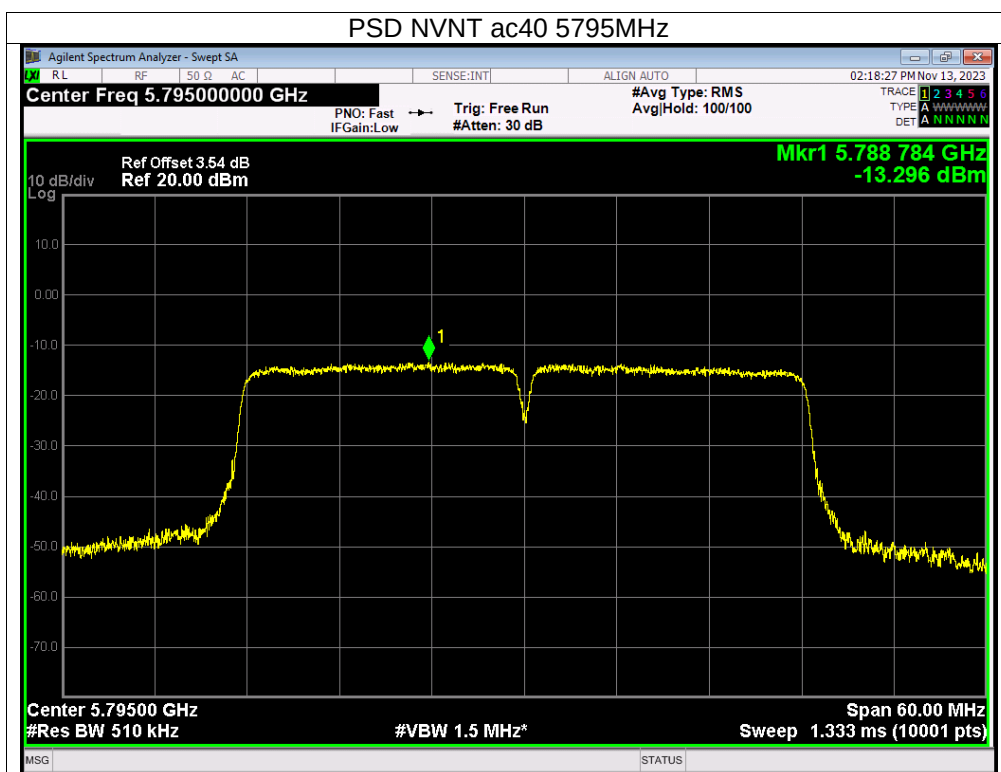






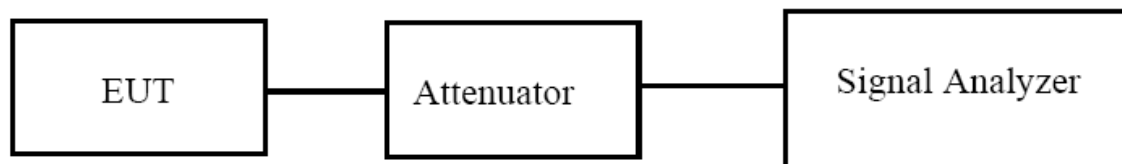






9. 26dB & 6dB & 99% Emission Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

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

9.3 Test Procedure

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

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

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

6dB

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

6. Allow the trace to stabilize.

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

9.4 EUT Operating Conditions

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

9.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.8V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	26dB bandwidth (MHz)	Limit -26 dB Bandwidth	Result
NVNT	a	5180	16.572	24.94	0.5	Pass
NVNT	a	5200	16.528	25.264	0.5	Pass
NVNT	a	5240	16.558	25.626	0.5	Pass
NVNT	n20	5180	17.627	26.557	0.5	Pass
NVNT	n20	5200	17.614	25.757	0.5	Pass
NVNT	n20	5240	17.675	27.462	0.5	Pass
NVNT	n40	5190	36.042	46.951	0.5	Pass
NVNT	n40	5230	36.127	49.846	0.5	Pass
NVNT	ac20	5180	17.64	29.299	0.5	Pass
NVNT	ac20	5200	17.638	31.074	0.5	Pass
NVNT	ac20	5240	17.664	26.224	0.5	Pass
NVNT	ac40	5190	36.076	45.243	0.5	Pass
NVNT	ac40	5230	36.138	52.238	0.5	Pass
NVNT	ac80	5210	75.555	90.004	0.5	Pass

