

TEST REPORT

Report No.: BCTC2304875804-4E

Applicant: Shenzhen Qichang Intelligent Technology Co., Ltd

Product Name: smartphone

Model/Type
reference: F102

Tested Date: 2023-04-27 to 2023-05-15

Issued Date: 2023-05-16

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2BAK2-F102

Product Name: smartphone

Trademark: Fossibot

Model/Type reference: F102
F102+, F102PLUS, F102PRO, F102S

Prepared For: Shenzhen Qichang Intelligent Technology Co., Ltd

Address: Room 510, Building 7, Yunli Intelligent Park, No. 7, Bantian Street, Longgang ,
Shenzhen

Manufacturer: Shenzhen Qichang Intelligent Technology Co., Ltd

Address: Room 510, Building 7, Yunli Intelligent Park, No. 7, Bantian Street, Longgang ,
Shenzhen

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: 2023-04-27

Sample tested Date: 2023-04-27 to 2023-05-15

Issue Date: 2023-05-16

Report No.: BCTC2304875804-4E

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

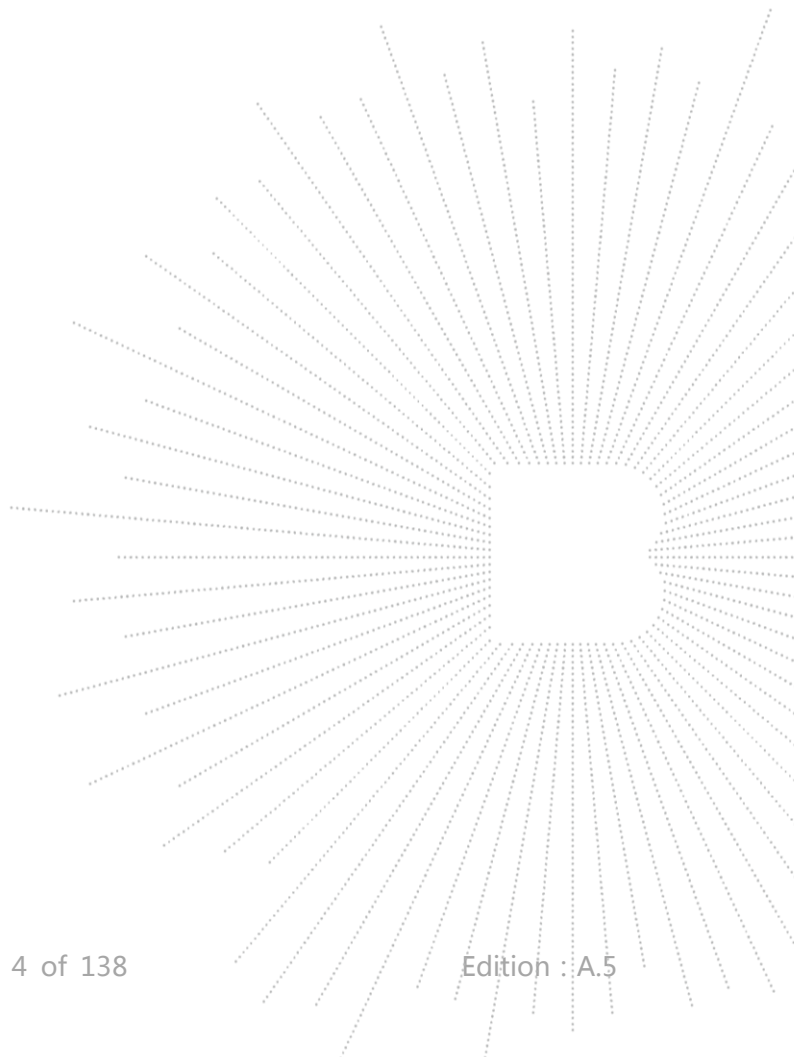
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2304875804-4E	2023-05-16	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

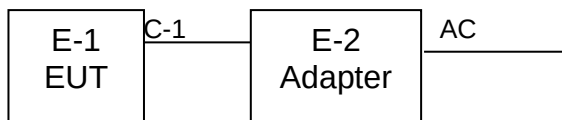
4.1 Product Information

Model/Type Ref.:	F102 F102+, F102PLUS, F102PRO, F102S
Model differences:	All the model are the same circuit and RF module, except model names.
Hardware Version:	CA-F122B
Software Version:	FOSSiBOT_F102
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:	1 dBi
Ratings:	DC 5V from adapter/DC 3.87V from battery
Adapter Information:	Model: HJ-PD33W-US Input: 100-240V~50/60Hz 0.8A Output: DC 5.0V 3.0A OR: DC 9.0V 3.0A OR: DC 12.0V 2.75A 33.0W MAX

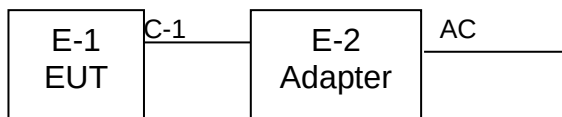
4.2 Test Setup Configuration

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

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	smartphone	Fossibot	F102	N/A	EUT
E-2	Adapter	N/A	HJ-PD33W-US	N/A	Auxiliary

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

Notes:

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

4.4 Channel List

5.1G

802.11a/n/ac(20MHz) 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

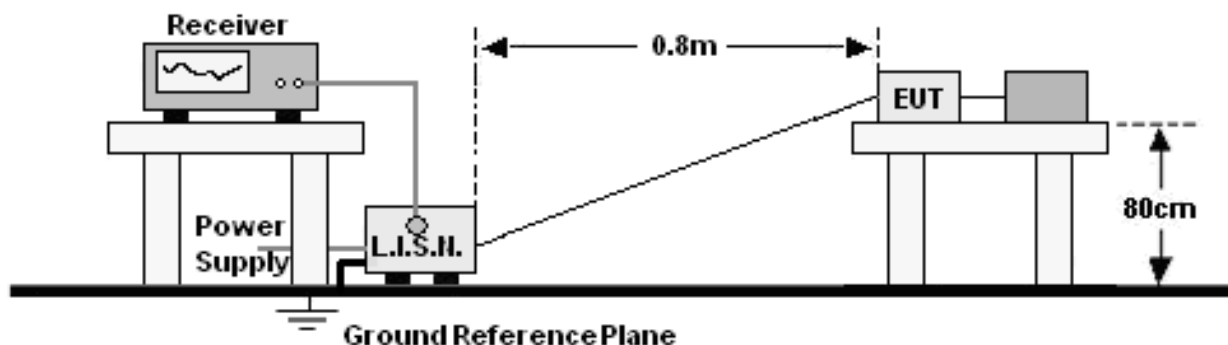
Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
LISN	R&S	ENV216	101375	May 24, 2022	May 23, 2023
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB DC-6GHz	1650	May 24, 2022	May 23, 2023

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	\	May 24, 2022	May 23, 2023
Power Sensor (AV)	Keysight	E9300A	\	May 24, 2022	May 23, 2023
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 24, 2022	May 23, 2023
Communication test set	R&S	CMW500	126173	Nov.8,2022	Nov.7,2023
Radio frequency control box	MAIWEI	MW200-RFC B	\	\	\
Software	MAIWEI	MTS 8200	\	\	\

Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
Receiver	R&S	ESRP	101154	May 24, 2022	May 23, 2023
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 24, 2022	May 23, 2023
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 26, 2022	May 25, 2023
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 24, 2022	May 23, 2023
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 06, 2022	Jun. 05, 2023
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 26, 2022	May 25, 2023
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 06, 2022	Jun. 05, 2023
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 24, 2022	May 23, 2023
Communication test set	R&S	CMW500	126173	Nov.8,2022	Nov.7,2023
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

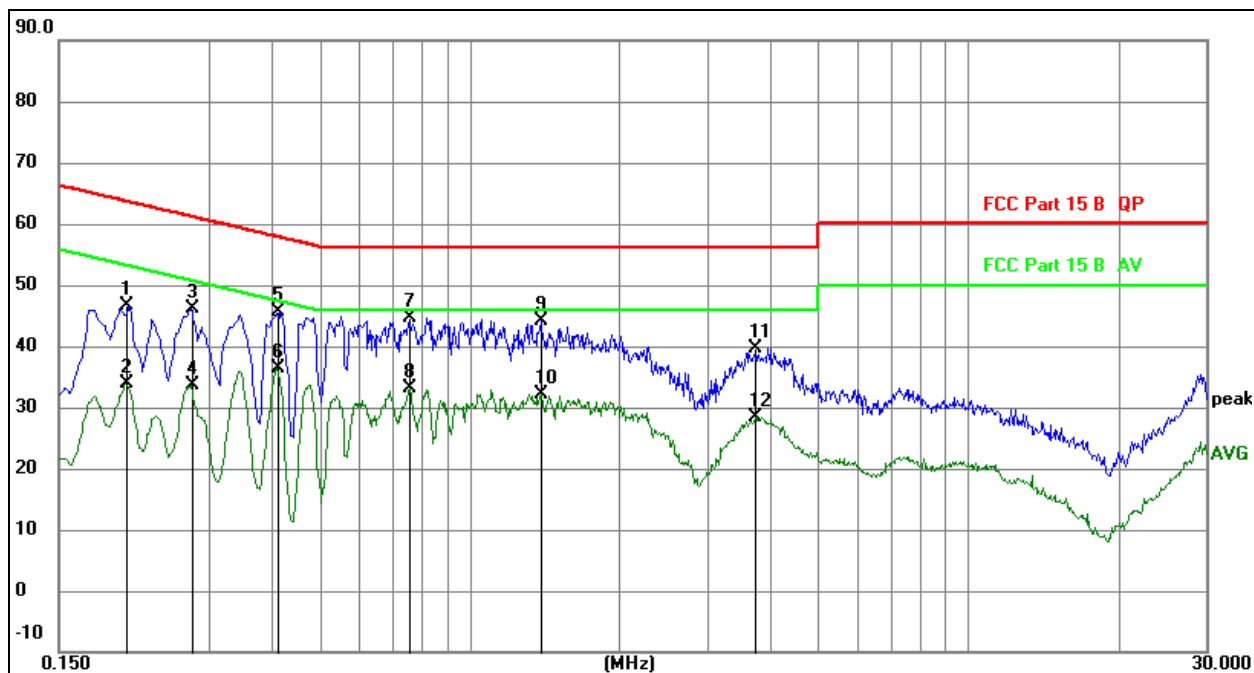
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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 2	Test Voltage :	AC120V/60Hz

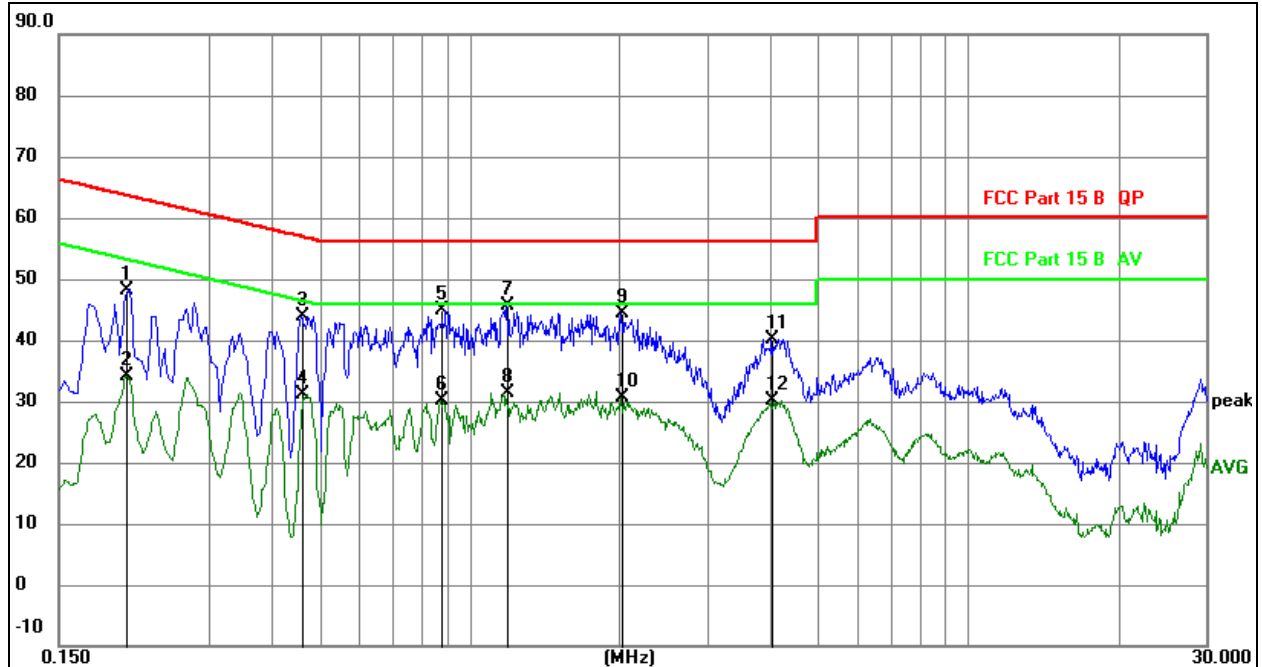


Remark:

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	0.2040	26.86	19.80	46.66	63.45	-16.79	QP
2	0.2040	14.09	19.80	33.89	53.45	-19.56	AVG
3	0.2759	26.29	19.78	46.07	60.94	-14.87	QP
4	0.2759	13.81	19.78	33.59	50.94	-17.35	AVG
5	0.4105	25.86	19.74	45.60	57.64	-12.04	QP
6 *	0.4105	16.56	19.74	36.30	47.64	-11.34	AVG
7	0.7589	24.89	19.74	44.63	56.00	-11.37	QP
8	0.7589	13.34	19.74	33.08	46.00	-12.92	AVG
9	1.3884	24.31	19.81	44.12	56.00	-11.88	QP
10	1.3884	12.35	19.81	32.16	46.00	-13.84	AVG
11	3.7395	19.51	20.07	39.58	56.00	-16.42	QP
12	3.7395	8.35	20.07	28.42	46.00	-17.58	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 2	Test Voltage :	AC120V/60Hz



Remark:

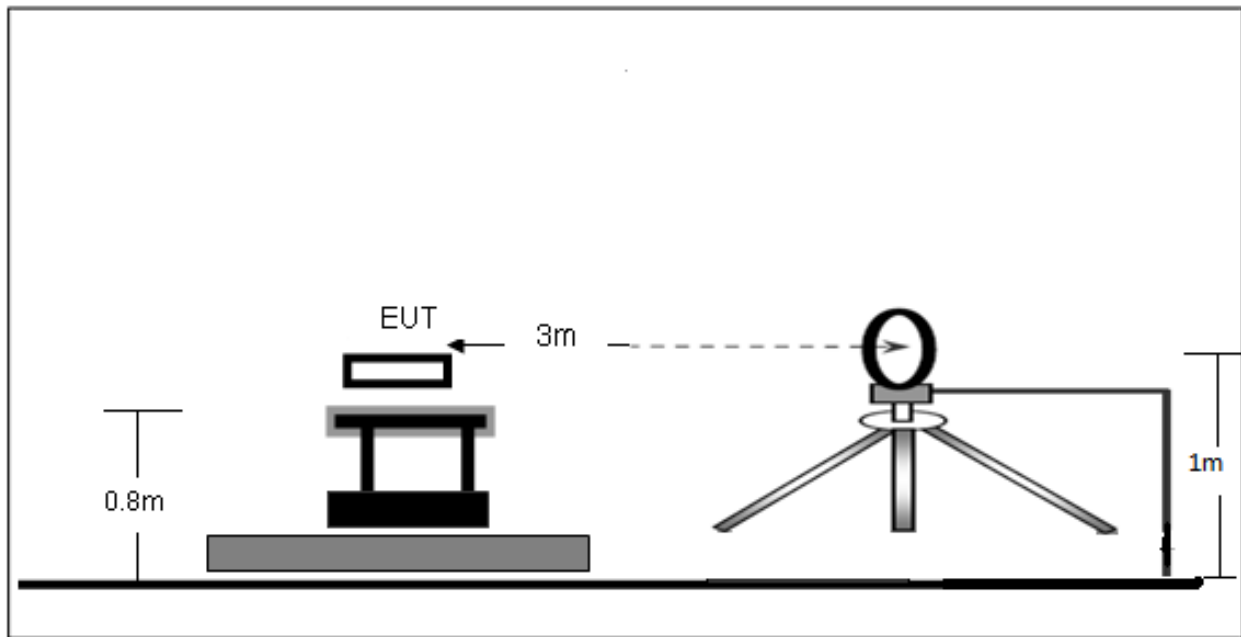
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over1 Measurement-Limit

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2040	28.45	19.80	48.25	63.45	-15.20	QP
2		0.2040	14.35	19.80	34.15	53.45	-19.30	AVG
3		0.4605	24.24	19.73	43.97	56.68	-12.71	QP
4		0.4605	11.52	19.73	31.25	46.68	-15.43	AVG
5		0.8790	25.15	19.75	44.90	56.00	-11.10	QP
6		0.8790	10.38	19.75	30.13	46.00	-15.87	AVG
7	*	1.1849	25.74	19.78	45.52	56.00	-10.48	QP
8		1.1849	11.63	19.78	31.41	46.00	-14.59	AVG
9		2.0220	24.39	19.88	44.27	56.00	-11.73	QP
10		2.0220	10.84	19.88	30.72	46.00	-15.28	AVG
11		4.0380	20.13	20.10	40.23	56.00	-15.77	QP
12		4.0380	9.92	20.10	30.02	46.00	-15.98	AVG

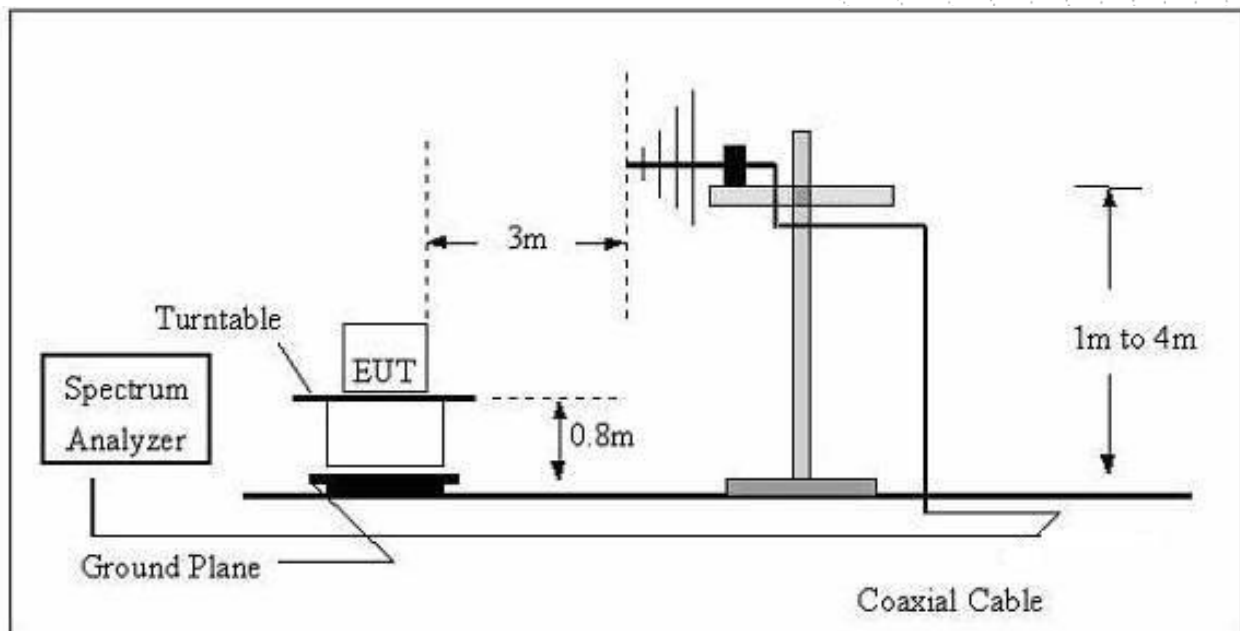
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

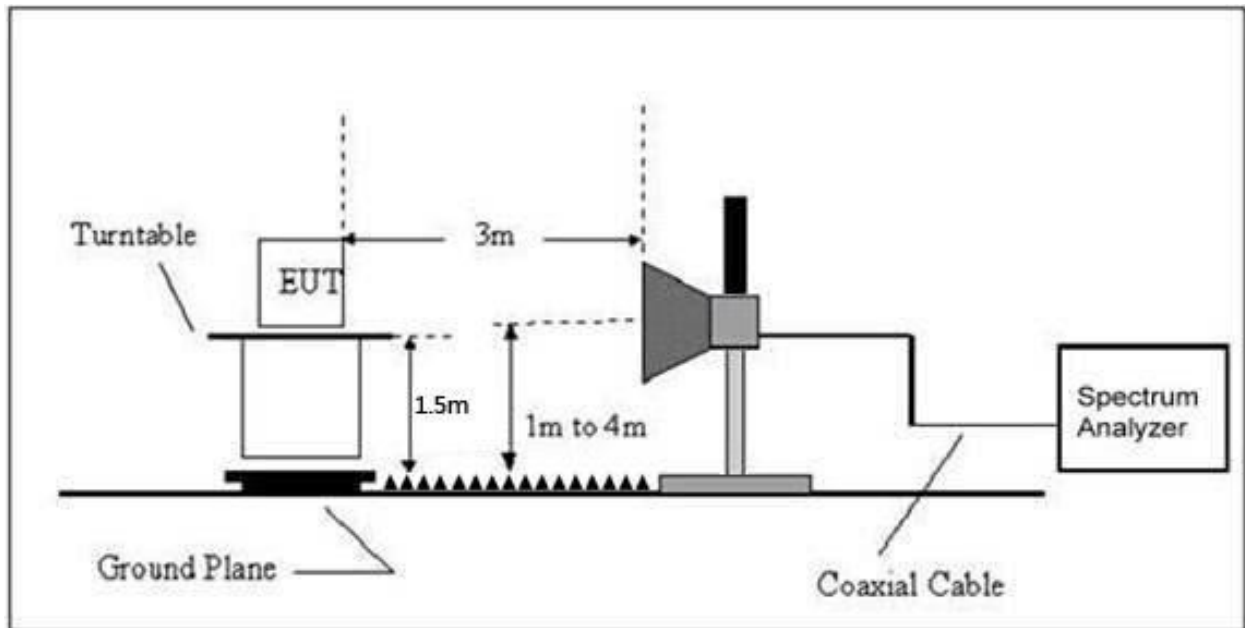
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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

- 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 $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW} [kHz])$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.4 EUT Operating Conditions

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

7.5 Test Result

Below 30MHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 3	Polarization :	--

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

Note:

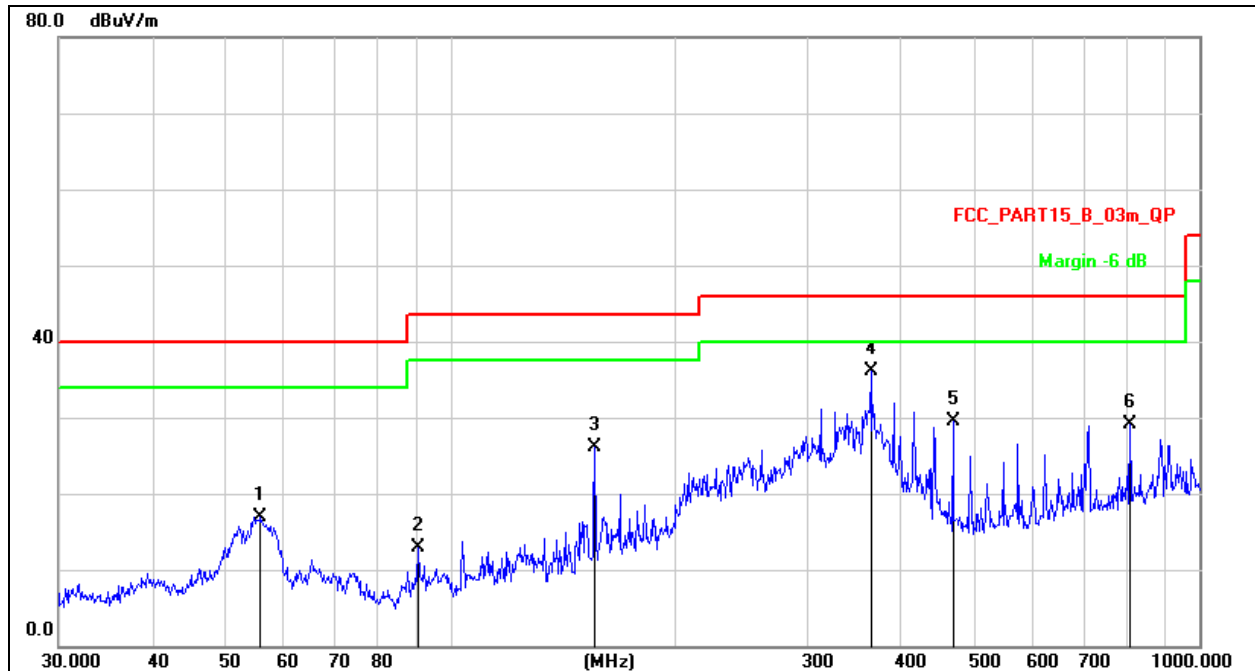
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 2	Test Voltage :	AC120V/60Hz

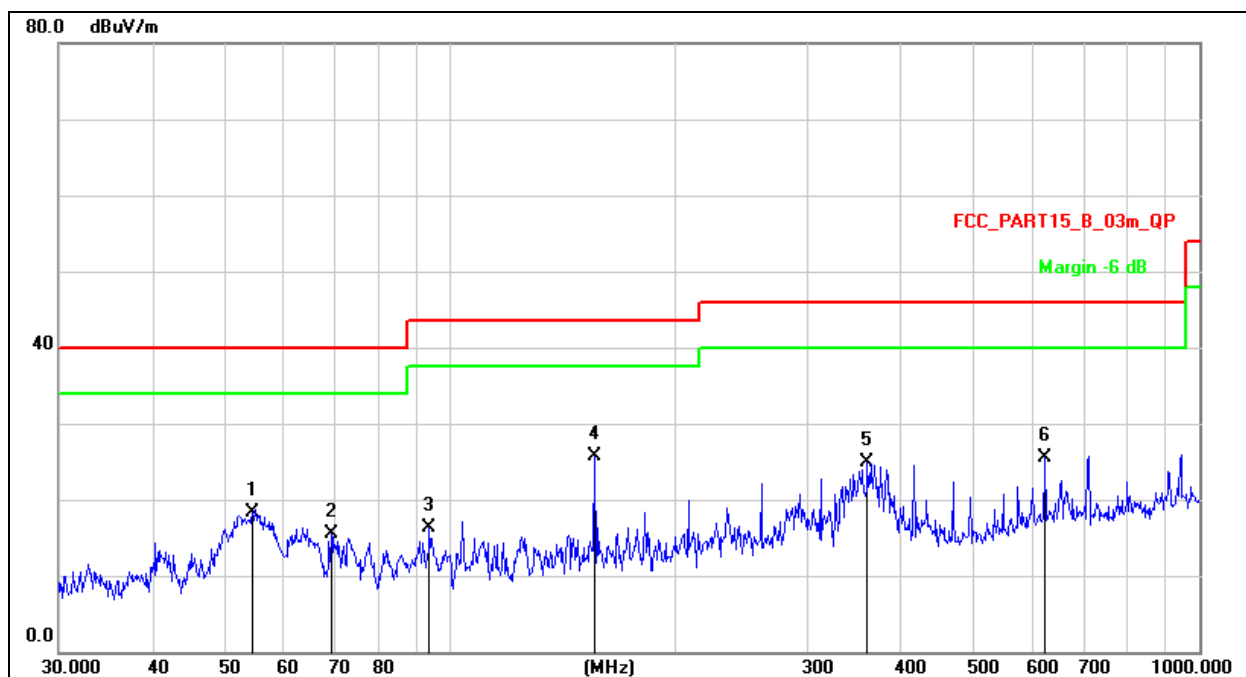


Remark:

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	Detector
	MHz	dBuV	dB	dBuV/m	dB/m	dB	
1	55.8047	33.34	-16.46	16.88	40.00	-23.12	QP
2	90.5374	32.10	-19.15	12.95	43.50	-30.55	QP
3	155.9101	46.68	-20.62	26.06	43.50	-17.44	QP
4 *	364.2595	48.68	-12.62	36.06	46.00	-9.94	QP
5	468.8762	40.52	-11.02	29.50	46.00	-16.50	QP
6	807.4291	34.52	-5.51	29.01	46.00	-16.99	QP

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 2	Test Voltage :	AC120V/60Hz



Remark:

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

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
	MHz	dBuV	dB	dBuV/m	dB/m	dB	
1	54.4515	34.59	-16.26	18.33	40.00	-21.67	QP
2	69.3568	35.34	-19.77	15.57	40.00	-24.43	QP
3	93.7685	35.07	-18.68	16.39	43.50	-27.11	QP
4 *	155.9100	46.36	-20.62	25.74	43.50	-17.76	QP
5	360.4476	37.52	-12.67	24.85	46.00	-21.15	QP
6	622.8899	33.56	-8.08	25.48	46.00	-20.52	QP

Between 1GHz – 40GHz

Test Mode:	TX(5.1G) - 802.11a
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.072	62.73	5.94	35.40	44.00	60.07	68.2	-8.13	PK
V	4434.072	43.48	5.94	35.40	44.00	40.82	54	-13.18	AV
V	10360.113	61.81	8.46	39.75	44.50	65.52	68.2	-2.68	PK
V	10360.113	43.27	8.46	39.75	44.50	46.98	54	-7.02	AV
V	15540.027	60.67	10.12	38.80	44.10	65.49	74	-8.51	PK
V	15540.027	43.92	10.12	38.80	42.70	50.14	54	-3.86	AV
H	4434.089	64.69	5.94	35.18	44.00	61.81	68.2	-6.39	PK
H	4434.089	43.85	5.94	35.18	44.00	40.97	54	-13.03	AV
H	10360.021	51.93	8.46	38.71	44.50	54.60	68.2	-13.60	PK
H	10360.021	43.00	8.46	38.71	44.50	45.67	54	-8.33	AV
H	15540.037	54.18	10.12	38.38	44.10	58.58	74	-15.42	PK
H	15540.037	42.50	10.12	38.38	44.10	46.90	54	-7.10	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.062	62.23	6.48	36.35	44.05	61.01	74	-12.99	PK
V	4592.062	43.26	6.48	36.35	44.05	42.04	54	-11.96	AV
V	10400.001	62.95	8.47	37.88	44.51	64.79	68.2	-3.41	PK
V	10400.001	43.96	8.47	37.88	44.51	45.80	54	-8.20	AV
V	15600.184	61.05	10.12	38.80	44.10	65.87	74	-8.13	PK
V	15600.184	43.20	10.12	38.80	42.70	49.42	54	-4.58	AV
H	4592.140	60.65	6.48	36.37	44.05	59.45	74	-14.55	PK
H	4592.140	43.22	6.48	36.37	44.05	42.02	54	-11.98	AV
H	10400.157	51.72	8.47	38.64	44.50	54.33	68.2	-13.87	PK
H	10400.157	40.44	8.47	38.64	44.50	43.05	54	-10.95	AV
H	15600.037	52.42	10.12	38.38	44.10	56.82	74	-17.18	PK
H	15600.037	41.80	10.12	38.38	44.10	46.20	54	-7.80	AV
High Channel (5240 MHz)-Above 1G									
V	4739.026	63.17	7.10	37.24	43.50	64.01	74	-9.99	PK
V	4739.026	43.99	7.10	37.24	43.50	44.83	54	-9.17	AV
V	10480.067	63.76	8.46	37.68	44.50	65.40	68.2	-2.80	PK
V	10480.067	43.74	8.46	37.68	44.50	45.38	54	-8.62	AV
V	15720.020	63.74	10.12	38.80	44.10	68.56	74	-5.44	PK
V	15720.020	43.03	10.12	38.80	42.70	49.25	54	-4.75	AV
H	4739.164	63.56	7.10	37.24	43.50	64.40	74	-9.60	PK
H	4739.164	43.45	7.10	37.24	43.50	44.29	54	-9.71	AV
H	10480.176	50.10	8.46	38.57	44.50	52.63	68.2	-15.57	PK
H	10480.176	44.91	8.46	38.57	44.50	47.44	54	-6.56	AV
H	15720.118	53.31	10.12	38.38	44.10	57.71	74	-16.29	PK
H	15720.118	43.96	10.12	38.38	44.10	48.36	54	-5.64	AV

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

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

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

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

Test Mode:	TX(5.1G) - 802.11n-HT20
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.049	63.48	5.94	35.40	44.00	60.82	68.2	-7.38	PK
V	4434.049	43.77	5.94	35.40	44.00	41.11	54	-12.89	AV
V	10360.081	62.50	8.46	39.75	44.50	66.21	68.2	-1.99	PK
V	10360.081	43.11	8.46	39.75	44.50	46.82	54	-7.18	AV
V	15540.017	60.06	10.12	38.80	44.10	64.88	74	-9.12	PK
V	15540.017	43.48	10.12	38.80	42.70	49.70	54	-4.30	AV
H	4434.125	63.56	5.94	35.18	44.00	60.68	68.2	-7.52	PK
H	4434.125	43.86	5.94	35.18	44.00	40.98	54	-13.02	AV
H	10360.038	53.26	8.46	38.71	44.50	55.93	68.2	-12.27	PK
H	10360.038	44.55	8.46	38.71	44.50	47.22	54	-6.78	AV
H	15540.196	53.81	10.12	38.38	44.10	58.21	74	-15.79	PK
H	15540.196	42.61	10.12	38.38	44.10	47.01	54	-6.99	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.135	63.39	6.48	36.35	44.05	62.17	74	-11.83	PK
V	4592.135	43.78	6.48	36.35	44.05	42.56	54	-11.44	AV
V	10400.120	61.27	8.47	37.88	44.51	63.11	68.2	-5.09	PK
V	10400.120	43.52	8.47	37.88	44.51	45.36	54	-8.64	AV
V	15600.081	60.63	10.12	38.80	44.10	65.45	74	-8.55	PK
V	15600.081	43.08	10.12	38.80	42.70	49.30	54	-4.70	AV
H	4592.055	63.22	6.48	36.37	44.05	62.02	74	-11.98	PK
H	4592.055	43.24	6.48	36.37	44.05	42.04	54	-11.96	AV
H	10400.167	50.69	8.47	38.64	44.50	53.30	68.2	-14.90	PK
H	10400.167	43.57	8.47	38.64	44.50	46.18	54	-7.82	AV
H	15600.109	53.62	10.12	38.38	44.10	58.02	74	-15.98	PK
H	15600.109	41.24	10.12	38.38	44.10	45.64	54	-8.36	AV
High Channel (5240 MHz)-Above 1G									
V	4739.005	61.44	7.10	37.24	43.50	62.28	74	-11.72	PK
V	4739.005	43.82	7.10	37.24	43.50	44.66	54	-9.34	AV
V	10480.079	62.11	8.46	37.68	44.50	63.75	68.2	-4.45	PK
V	10480.079	43.39	8.46	37.68	44.50	45.03	54	-8.97	AV
V	15720.083	60.01	10.12	38.80	44.10	64.83	74	-9.17	PK
V	15720.083	43.32	10.12	38.80	42.70	49.54	54	-4.46	AV
H	4739.059	64.55	7.10	37.24	43.50	65.39	74	-8.61	PK
H	4739.059	43.35	7.10	37.24	43.50	44.19	54	-9.81	AV
H	10480.046	54.19	8.46	38.57	44.50	56.72	68.2	-11.48	PK
H	10480.046	43.63	8.46	38.57	44.50	46.16	54	-7.84	AV
H	15720.054	54.01	10.12	38.38	44.10	58.41	74	-15.59	PK
H	15720.054	44.80	10.12	38.38	44.10	49.20	54	-4.80	AV

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

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

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

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

Test Mode:	TX(5.1G) - 802.11n-HT40
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G									
V	4434.189	64.04	5.94	35.40	44.00	61.38	68.2	-6.82	PK
V	4434.189	43.41	5.94	35.40	44.00	40.75	54	-13.25	AV
V	10380.169	60.77	8.46	39.75	44.50	64.48	68.2	-3.72	PK
V	10380.169	43.38	8.46	39.75	44.50	47.09	54	-6.91	AV
V	15570.185	62.72	10.12	38.80	44.10	67.54	74	-6.46	PK
V	15570.185	43.63	10.12	38.80	42.70	49.85	54	-4.15	AV
H	4434.061	62.06	5.94	35.18	44.00	59.18	74	-14.82	PK
H	4434.061	43.70	5.94	35.18	44.00	40.82	54	-13.18	AV
H	10380.196	51.94	8.46	38.71	44.50	54.61	68.2	-13.59	PK
H	10380.196	40.02	8.46	38.71	44.50	42.69	54	-11.31	AV
H	15570.053	54.09	10.12	38.38	44.10	58.49	74	-15.51	PK
H	15570.053	42.39	10.12	38.38	44.10	46.79	54	-7.21	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.150	62.76	6.48	36.35	44.05	61.54	68.2	-6.66	PK
V	4739.150	43.32	6.48	36.35	44.05	42.10	54	-11.90	AV
V	10460.129	61.54	8.47	37.88	44.51	63.38	68.2	-4.82	PK
V	10460.129	43.75	8.47	37.88	44.51	45.59	54	-8.41	AV
V	15690.072	60.12	10.12	38.80	44.10	64.94	74	-9.06	PK
V	15690.072	43.22	10.12	38.80	42.70	49.44	54	-4.56	AV
H	4739.087	63.09	6.48	36.37	44.05	61.89	68.2	-6.31	PK
H	4739.087	43.51	6.48	36.37	44.05	42.31	54	-11.69	AV
H	10460.022	53.30	8.47	38.64	44.50	55.91	68.2	-12.29	PK
H	10460.022	42.90	8.47	38.64	44.50	45.51	54	-8.49	AV
H	15690.033	52.95	10.12	38.38	44.10	57.35	74	-16.65	PK
H	15690.033	44.08	10.12	38.38	44.10	48.48	54	-5.52	AV

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

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

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

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

Test Mode:	TX(5.1G) - 802.11ac-HT20
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.151	61.70	5.94	35.40	44.00	59.04	68.2	-9.16	PK
V	4434.151	43.47	5.94	35.40	44.00	40.81	54	-13.19	AV
V	10360.133	63.75	8.46	39.75	44.50	67.46	68.2	-0.74	PK
V	10360.133	43.11	8.46	39.75	44.50	46.82	54	-7.18	AV
V	15540.176	62.39	10.12	38.80	44.10	67.21	74	-6.79	PK
V	15540.176	43.56	10.12	38.80	42.70	49.78	54	-4.22	AV
H	4434.074	62.87	5.94	35.18	44.00	59.99	68.2	-8.21	PK
H	4434.074	43.10	5.94	35.18	44.00	40.22	54	-13.78	AV
H	10360.086	54.95	8.46	38.71	44.50	57.62	68.2	-10.58	PK
H	10360.086	42.71	8.46	38.71	44.50	45.38	54	-8.62	AV
H	15540.049	52.92	10.12	38.38	44.10	57.32	74	-16.68	PK
H	15540.049	43.39	10.12	38.38	44.10	47.79	54	-6.21	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.196	64.28	6.48	36.35	44.05	63.06	74	-10.94	PK
V	4592.196	43.60	6.48	36.35	44.05	42.38	54	-11.62	AV
V	10400.098	63.97	8.47	37.88	44.51	65.81	68.2	-2.39	PK
V	10400.098	43.49	8.47	37.88	44.51	45.33	54	-8.67	AV
V	15600.148	60.28	10.12	38.80	44.10	65.10	74	-8.90	PK
V	15600.148	43.21	10.12	38.80	42.70	49.43	54	-4.57	AV
H	4592.096	62.80	6.48	36.37	44.05	61.60	74	-12.40	PK
H	4592.096	43.23	6.48	36.37	44.05	42.03	54	-11.97	AV
H	10400.154	51.51	8.47	38.64	44.50	54.12	68.2	-14.08	PK
H	10400.154	41.73	8.47	38.64	44.50	44.34	54	-9.66	AV
H	15600.095	52.65	10.12	38.38	44.10	57.05	74	-16.95	PK
H	15600.095	41.08	10.12	38.38	44.10	45.48	54	-8.52	AV
High Channel (5240 MHz)-Above 1G									
V	4739.186	62.40	7.10	37.24	43.50	63.24	74	-10.76	PK
V	4739.186	43.08	7.10	37.24	43.50	43.92	54	-10.08	AV
V	10480.133	60.28	8.46	37.68	44.50	61.92	68.2	-6.28	PK
V	10480.133	43.72	8.46	37.68	44.50	45.36	54	-8.64	AV
V	15720.076	61.76	10.12	38.80	44.10	66.58	74	-7.42	PK
V	15720.076	43.17	10.12	38.80	42.70	49.39	54	-4.61	AV
H	4739.076	64.37	7.10	37.24	43.50	65.21	74	-8.79	PK
H	4739.076	43.60	7.10	37.24	43.50	44.44	54	-9.56	AV
H	10480.023	54.03	8.46	38.57	44.50	56.56	68.2	-11.64	PK
H	10480.023	41.72	8.46	38.57	44.50	44.25	54	-9.75	AV
H	15720.155	50.15	10.12	38.38	44.10	54.55	74	-19.45	PK
H	15720.155	40.74	10.12	38.38	44.10	45.14	54	-8.86	AV

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

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

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

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

Test Mode:	TX(5.1G) - 802.11ac-HT40
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G									
V	4434.059	60.39	5.94	35.40	44.00	57.73	68.2	-10.47	PK
V	4434.059	43.57	5.94	35.40	44.00	40.91	54	-13.09	AV
V	10380.164	61.24	8.46	39.75	44.50	64.95	68.2	-3.25	PK
V	10380.164	43.06	8.46	39.75	44.50	46.77	54	-7.23	AV
V	15570.125	62.45	10.12	38.80	44.10	67.27	74	-6.73	PK
V	15570.125	43.92	10.12	38.80	42.70	50.14	54	-3.86	AV
H	4434.196	60.49	5.94	35.18	44.00	57.61	74	-16.39	PK
H	4434.196	43.28	5.94	35.18	44.00	40.40	54	-13.60	AV
H	10380.186	52.44	8.46	38.71	44.50	55.11	68.2	-13.09	PK
H	10380.186	40.18	8.46	38.71	44.50	42.85	54	-11.15	AV
H	15570.025	54.98	10.12	38.38	44.10	59.38	74	-14.62	PK
H	15570.025	41.39	10.12	38.38	44.10	45.79	54	-8.21	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.025	63.15	6.48	36.35	44.05	61.93	68.2	-6.27	PK
V	4739.025	43.32	6.48	36.35	44.05	42.10	54	-11.90	AV
V	10460.193	60.23	8.47	37.88	44.51	62.07	68.2	-6.13	PK
V	10460.193	43.24	8.47	37.88	44.51	45.08	54	-8.92	AV
V	15690.064	64.40	10.12	38.80	44.10	69.22	74	-4.78	PK
V	15690.064	43.81	10.12	38.80	42.70	50.03	54	-3.97	AV
H	4739.048	62.46	6.48	36.37	44.05	61.26	68.2	-6.94	PK
H	4739.048	43.42	6.48	36.37	44.05	42.22	54	-11.78	AV
H	10460.161	54.72	8.47	38.64	44.50	57.33	68.2	-10.87	PK
H	10460.161	41.82	8.47	38.64	44.50	44.43	54	-9.57	AV
H	15690.032	54.75	10.12	38.38	44.10	59.15	74	-14.85	PK
H	15690.032	44.58	10.12	38.38	44.10	48.98	54	-5.02	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
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5210 MHz)-Above 1G									
V	4434.027	63.76	5.94	35.40	44.00	61.10	68.2	-7.10	PK
V	4434.027	43.27	5.94	35.40	44.00	40.61	54	-13.39	AV
V	10420.038	62.72	8.46	39.75	44.50	66.43	68.2	-1.77	PK
V	10420.038	43.73	8.46	39.75	44.50	47.44	54	-6.56	AV
V	15630.074	60.76	10.12	38.80	44.10	65.58	74	-8.42	PK
V	15630.074	44.00	10.12	38.80	42.70	50.22	54	-3.78	AV
H	4434.145	60.36	5.94	35.18	44.00	57.48	68.2	-10.72	PK
H	4434.145	43.87	5.94	35.18	44.00	40.99	54	-13.01	AV
H	10420.023	52.09	8.46	38.71	44.50	54.76	68.2	-13.44	PK
H	10420.023	41.83	8.46	38.71	44.50	44.50	54	-9.50	AV
H	15630.136	53.75	10.12	38.38	44.10	58.15	74	-15.85	PK
H	15630.136	43.17	10.12	38.38	44.10	47.57	54	-6.43	AV

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

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

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

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

Test Mode:	TX (5.8G) -- 802.11a
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.015	56.42	5.94	35.40	44.00	53.76	74	-20.24	PK
V	4679.015	43.78	5.94	35.40	44.00	41.12	54	-12.88	AV
V	11490.133	56.98	8.46	39.75	44.50	60.69	68.2	-7.51	PK
V	11490.133	43.31	8.46	39.75	44.50	47.02	54	-6.98	AV
V	17235.071	57.15	10.12	38.80	44.10	61.97	68.2	-6.23	PK
V	17235.071	43.21	10.12	38.80	42.70	49.43	54	-4.57	AV
H	4679.040	54.90	5.94	35.18	44.00	52.02	74	-21.98	PK
H	4679.040	43.53	5.94	35.18	44.00	40.65	54	-13.35	AV
H	11490.160	51.92	8.46	38.71	44.50	54.59	68.2	-13.61	PK
H	11490.160	42.58	8.46	38.71	44.50	45.25	54	-8.75	AV
H	17235.170	54.36	10.12	38.38	44.10	58.76	68.2	-9.44	PK
H	17235.170	41.80	10.12	38.38	44.10	46.20	54	-7.80	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.091	57.28	6.48	36.35	44.05	56.06	74	-17.94	PK
V	4592.091	43.03	6.48	36.35	44.05	41.81	54	-12.19	AV
V	11570.076	58.58	8.47	37.88	44.51	60.42	68.2	-7.78	PK
V	11570.076	43.74	8.47	37.88	44.51	45.58	54	-8.42	AV
V	17355.165	56.26	10.12	38.80	44.10	61.08	68.2	-7.12	PK
V	17355.165	39.50	10.12	38.80	42.70	45.72	54	-8.28	AV
H	4592.105	58.42	6.48	36.37	44.05	57.22	74	-16.78	PK
H	4592.105	43.11	6.48	36.37	44.05	41.91	54	-12.09	AV
H	11570.005	53.75	8.47	38.64	44.50	56.36	68.2	-11.84	PK
H	11570.005	42.17	8.47	38.64	44.50	44.78	54	-9.22	AV
H	17355.156	51.47	10.12	38.38	44.10	55.87	68.2	-12.33	PK
H	17355.156	44.83	10.12	38.38	44.10	49.23	54	-4.77	AV
High Channel (5825 MHz)-Above 1G									
V	6039.038	60.82	7.10	37.24	43.50	61.66	68.2	-6.54	PK
V	6039.038	43.37	7.10	37.24	43.50	44.21	54	-9.79	AV
V	11650.184	62.88	8.46	37.68	44.50	64.52	74	-9.48	PK
V	11650.184	43.88	8.46	37.68	44.50	45.52	54	-8.48	AV
V	17475.040	54.57	10.12	38.80	44.10	59.39	68.2	-8.81	PK
V	17475.040	43.46	10.12	38.80	42.70	49.68	54	-4.32	AV
H	6039.130	58.67	7.10	37.24	43.50	59.51	68.2	-8.69	PK
H	6039.130	43.18	7.10	37.24	43.50	44.02	54	-9.98	AV
H	11650.024	53.28	8.46	38.57	44.50	55.81	74	-18.19	PK
H	11650.024	43.93	8.46	38.57	44.50	46.46	54	-7.54	AV
H	17475.007	53.74	10.12	38.38	44.10	58.14	68.2	-10.06	PK
H	17475.007	41.66	10.12	38.38	44.10	46.06	54	-7.94	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 (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.070	59.97	5.94	35.40	44.00	57.31	74	-16.69	PK
V	4679.070	43.82	5.94	35.40	44.00	41.16	54	-12.84	AV
V	11490.078	53.50	8.46	39.75	44.50	57.21	68.2	-10.99	PK
V	11490.078	43.24	8.46	39.75	44.50	46.95	54	-7.05	AV
V	17235.102	58.77	10.12	38.80	44.10	63.59	68.2	-4.61	PK
V	17235.102	43.18	10.12	38.80	42.70	49.40	54	-4.60	AV
H	4679.019	59.13	5.94	35.18	44.00	56.25	74	-17.75	PK
H	4679.019	43.70	5.94	35.18	44.00	40.82	54	-13.18	AV
H	11490.174	47.81	8.46	38.71	44.50	50.48	68.2	-17.72	PK
H	11490.174	40.55	8.46	38.71	44.50	43.22	54	-10.78	AV
H	17235.152	53.33	10.12	38.38	44.10	57.73	68.2	-10.47	PK
H	17235.152	41.19	10.12	38.38	44.10	45.59	54	-8.41	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.158	62.99	6.48	36.35	44.05	61.77	74	-12.23	PK
V	4592.158	43.10	6.48	36.35	44.05	41.88	54	-12.12	AV
V	11570.121	54.67	8.47	37.88	44.51	56.51	68.2	-11.69	PK
V	11570.121	43.52	8.47	37.88	44.51	45.36	54	-8.64	AV
V	17355.120	58.88	10.12	38.80	44.10	63.70	68.2	-4.50	PK
V	17355.120	43.68	10.12	38.80	42.70	49.90	54	-4.10	AV
H	4592.095	58.96	6.48	36.37	44.05	57.76	74	-16.24	PK
H	4592.095	43.17	6.48	36.37	44.05	41.97	54	-12.03	AV
H	11570.026	53.11	8.47	38.64	44.50	55.72	68.2	-12.48	PK
H	11570.026	42.64	8.47	38.64	44.50	45.25	54	-8.75	AV
H	17355.038	51.40	10.12	38.38	44.10	55.80	68.2	-12.40	PK
H	17355.038	44.78	10.12	38.38	44.10	49.18	54	-4.82	AV
High Channel (5825 MHz)-Above 1G									
V	6039.008	57.03	7.10	37.24	43.50	57.87	68.2	-10.33	PK
V	6039.008	43.07	7.10	37.24	43.50	43.91	54	-10.09	AV
V	11650.112	58.90	8.46	37.68	44.50	60.54	74	-13.46	PK
V	11650.112	43.41	8.46	37.68	44.50	45.05	54	-8.95	AV
V	17475.144	55.36	10.12	38.80	44.10	60.18	68.2	-8.02	PK
V	17475.144	43.19	10.12	38.80	42.70	49.41	54	-4.59	AV
H	6039.144	58.19	7.10	37.24	43.50	59.03	68.2	-9.17	PK
H	6039.144	43.76	7.10	37.24	43.50	44.60	54	-9.40	AV
H	11650.185	54.65	8.46	38.57	44.50	57.18	74	-16.82	PK
H	11650.185	44.05	8.46	38.57	44.50	46.58	54	-7.42	AV
H	17475.131	54.61	10.12	38.38	44.10	59.01	68.2	-9.19	PK
H	17475.131	43.35	10.12	38.38	44.10	47.75	54	-6.25	AV

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

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

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

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

Test Mode:	TX (5.8G) -- 802.11n-HT40
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G									
V	4679.044	58.61	5.94	35.40	44.00	55.95	74	-18.05	PK
V	4679.044	43.77	5.94	35.40	44.00	41.11	54	-12.89	AV
V	11510.170	56.39	8.46	39.75	44.50	60.10	74	-13.90	PK
V	11510.170	43.81	8.46	39.75	44.50	47.52	54	-6.48	AV
V	17265.189	55.95	10.12	38.80	44.10	60.77	68.2	-7.43	PK
V	17265.189	43.78	10.12	38.80	42.70	50.00	54	-4.00	AV
H	4679.173	59.58	5.94	35.18	44.00	56.70	74	-17.30	PK
H	4679.173	43.29	5.94	35.18	44.00	40.41	54	-13.59	AV
H	11510.110	53.96	8.46	38.71	44.50	56.63	74	-17.37	PK
H	11510.110	41.06	8.46	38.71	44.50	43.73	54	-10.27	AV
H	17265.076	54.28	10.12	38.38	44.10	58.68	68.2	-9.52	PK
H	17265.076	41.59	10.12	38.38	44.10	45.99	54	-8.01	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.043	58.46	6.48	36.35	44.05	57.24	68.2	-10.96	PK
V	6039.043	43.49	6.48	36.35	44.05	42.27	54	-11.73	AV
V	11590.004	57.52	8.47	37.88	44.51	59.36	74	-14.64	PK
V	11590.004	43.73	8.47	37.88	44.51	45.57	54	-8.43	AV
V	17385.197	55.81	10.12	38.80	44.10	60.63	68.2	-7.57	PK
V	17385.197	41.93	10.12	38.80	42.70	48.15	54	-5.85	AV
H	6039.186	58.13	6.48	36.37	44.05	56.93	68.2	-11.27	PK
H	6039.186	43.22	6.48	36.37	44.05	42.02	54	-11.98	AV
H	11590.103	50.36	8.47	38.64	44.50	52.97	74	-21.03	PK
H	11590.103	44.74	8.47	38.64	44.50	47.35	54	-6.65	AV
H	17385.135	51.01	10.12	38.38	44.10	55.41	68.2	-12.79	PK
H	17385.135	44.61	10.12	38.38	44.10	49.01	54	-4.99	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 (5.8G) --802.11ac-HT20
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.178	56.55	5.94	35.40	44.00	53.89	74	-20.11	PK
V	4679.178	43.15	5.94	35.40	44.00	40.49	54	-13.51	AV
V	11490.093	54.85	8.46	39.75	44.50	58.56	68.2	-9.64	PK
V	11490.093	43.99	8.46	39.75	44.50	47.70	54	-6.30	AV
V	17235.172	59.52	10.12	38.80	44.10	64.34	68.2	-3.86	PK
V	17235.172	43.28	10.12	38.80	42.70	49.50	54	-4.50	AV
H	4679.123	58.45	5.94	35.18	44.00	55.57	74	-18.43	PK
H	4679.123	43.69	5.94	35.18	44.00	40.81	54	-13.19	AV
H	11490.085	49.19	8.46	38.71	44.50	51.86	68.2	-16.34	PK
H	11490.085	44.14	8.46	38.71	44.50	46.81	54	-7.19	AV
H	17235.072	53.51	10.12	38.38	44.10	57.91	68.2	-10.29	PK
H	17235.072	44.10	10.12	38.38	44.10	48.50	54	-5.50	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.064	62.15	6.48	36.35	44.05	60.93	74	-13.07	PK
V	4592.064	43.16	6.48	36.35	44.05	41.94	54	-12.06	AV
V	11570.129	54.15	8.47	37.88	44.51	55.99	68.2	-12.21	PK
V	11570.129	43.21	8.47	37.88	44.51	45.05	54	-8.95	AV
V	17355.103	61.46	10.12	38.80	44.10	66.28	68.2	-1.92	PK
V	17355.103	43.34	10.12	38.80	42.70	49.56	54	-4.44	AV
H	4592.165	59.34	6.48	36.37	44.05	58.14	74	-15.86	PK
H	4592.165	43.64	6.48	36.37	44.05	42.44	54	-11.56	AV
H	11570.186	50.96	8.47	38.64	44.50	53.57	68.2	-14.63	PK
H	11570.186	44.90	8.47	38.64	44.50	47.51	54	-6.49	AV
H	17355.120	52.88	10.12	38.38	44.10	57.28	68.2	-10.92	PK
H	17355.120	43.40	10.12	38.38	44.10	47.80	54	-6.20	AV
High Channel (5825 MHz)-Above 1G									
V	6039.139	57.68	7.10	37.24	43.50	58.52	68.2	-9.68	PK
V	6039.139	43.02	7.10	37.24	43.50	43.86	54	-10.14	AV
V	11650.057	56.83	8.46	37.68	44.50	58.47	74	-15.53	PK
V	11650.057	43.71	8.46	37.68	44.50	45.35	54	-8.65	AV
V	17475.112	56.18	10.12	38.80	44.10	61.00	68.2	-7.20	PK
V	17475.112	43.45	10.12	38.80	42.70	49.67	54	-4.33	AV
H	6039.176	56.12	7.10	37.24	43.50	56.96	68.2	-11.24	PK
H	6039.176	43.74	7.10	37.24	43.50	44.58	54	-9.42	AV
H	11650.005	52.66	8.46	38.57	44.50	55.19	74	-18.81	PK
H	11650.005	43.87	8.46	38.57	44.50	46.40	54	-7.60	AV
H	17475.077	51.91	10.12	38.38	44.10	56.31	68.2	-11.89	PK
H	17475.077	43.56	10.12	38.38	44.10	47.96	54	-6.04	AV

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

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

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

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

Test Mode :	TX (5.8G) -- 802.11ac-HT40
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G									
V	4679.031	56.27	5.94	35.40	44.00	53.61	74	-20.39	PK
V	4679.031	43.19	5.94	35.40	44.00	40.53	54	-13.47	AV
V	11510.065	56.96	8.46	39.75	44.50	60.67	74	-13.33	PK
V	11510.065	43.95	8.46	39.75	44.50	47.66	54	-6.34	AV
V	17265.196	56.30	10.12	38.80	44.10	61.12	68.2	-7.08	PK
V	17265.196	43.76	10.12	38.80	42.70	49.98	54	-4.02	AV
H	4679.036	56.73	5.94	35.18	44.00	53.85	74	-20.15	PK
H	4679.036	43.77	5.94	35.18	44.00	40.89	54	-13.11	AV
H	11510.079	53.01	8.46	38.71	44.50	55.68	74	-18.32	PK
H	11510.079	41.37	8.46	38.71	44.50	44.04	54	-9.96	AV
H	17265.026	54.61	10.12	38.38	44.10	59.01	68.2	-9.19	PK
H	17265.026	43.38	10.12	38.38	44.10	47.78	54	-6.22	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.035	59.30	6.48	36.35	44.05	58.08	68.2	-10.12	PK
V	6039.035	43.89	6.48	36.35	44.05	42.67	54	-11.33	AV
V	11590.136	56.25	8.47	37.88	44.51	58.09	74	-15.91	PK
V	11590.136	43.23	8.47	37.88	44.51	45.07	54	-8.93	AV
V	17385.080	55.67	10.12	38.80	44.10	60.49	68.2	-7.71	PK
V	17385.080	41.34	10.12	38.80	42.70	47.56	54	-6.44	AV
H	6039.014	56.07	6.48	36.37	44.05	54.87	68.2	-13.33	PK
H	6039.014	43.13	6.48	36.37	44.05	41.93	54	-12.07	AV
H	11590.023	54.77	8.47	38.64	44.50	57.38	74	-16.62	PK
H	11590.023	42.44	8.47	38.64	44.50	45.05	54	-8.95	AV
H	17385.066	52.34	10.12	38.38	44.10	56.74	68.2	-11.46	PK
H	17385.066	43.01	10.12	38.38	44.10	47.41	54	-6.59	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
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5775 MHz)-Above 1G									
V	4679.016	58.81	5.94	35.40	44.00	56.15	74	-17.85	PK
V	4679.016	43.97	5.94	35.40	44.00	41.31	54	-12.69	AV
V	11550.124	57.71	8.46	39.75	44.50	61.42	74	-12.58	PK
V	11550.124	42.24	8.46	39.75	44.50	45.95	54	-8.05	AV
V	17325.082	57.57	10.12	38.80	44.10	62.39	68.2	-5.81	PK
V	17325.082	41.73	10.12	38.80	42.70	47.95	54	-6.05	AV
H	4679.049	58.77	5.94	35.18	44.00	55.89	74	-18.11	PK
H	4679.049	43.67	5.94	35.18	44.00	40.79	54	-13.21	AV
H	11550.183	54.98	8.46	38.71	44.50	57.65	74	-16.35	PK
H	11550.183	44.20	8.46	38.71	44.50	46.87	54	-7.13	AV
H	17325.053	51.30	10.12	38.38	44.10	55.70	68.2	-12.50	PK
H	17325.053	40.97	10.12	38.38	44.10	45.37	54	-8.63	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.

8. Power Spectral Density Test

8.1 Block Diagram Of Test Setup



8.2 Limit

For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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

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

For the band 5.725-5.85 GHz

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

8.3 Test Procedure

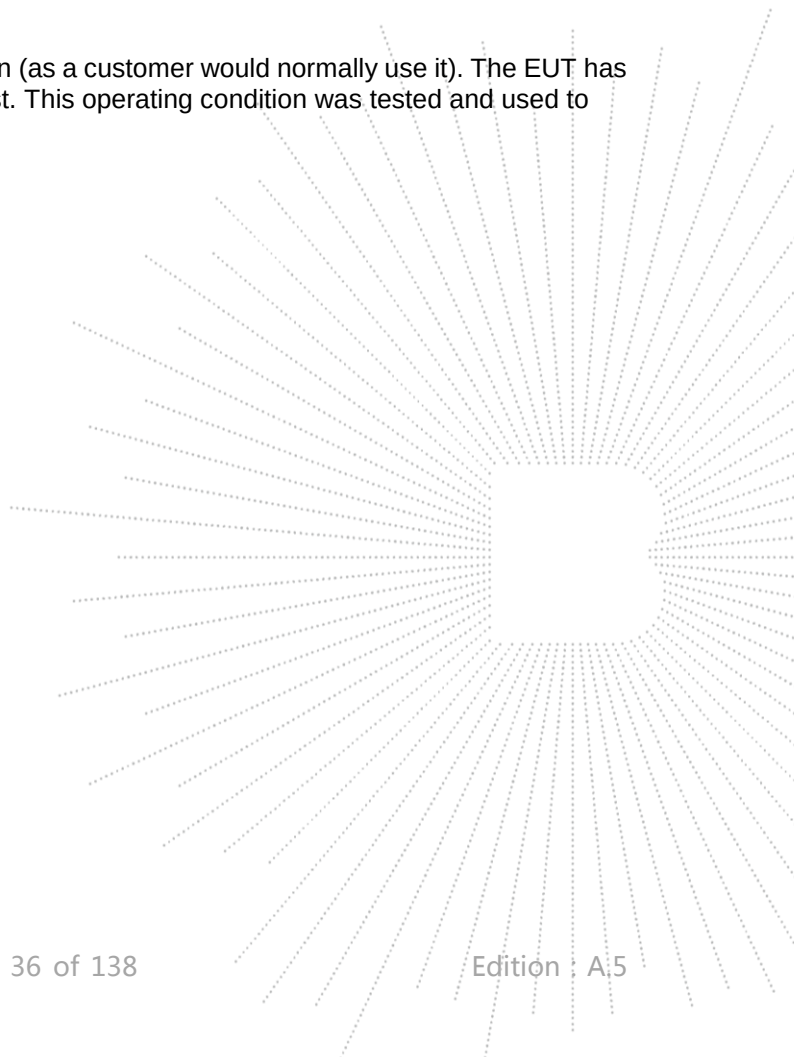
For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of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

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas RBW (< 500 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.

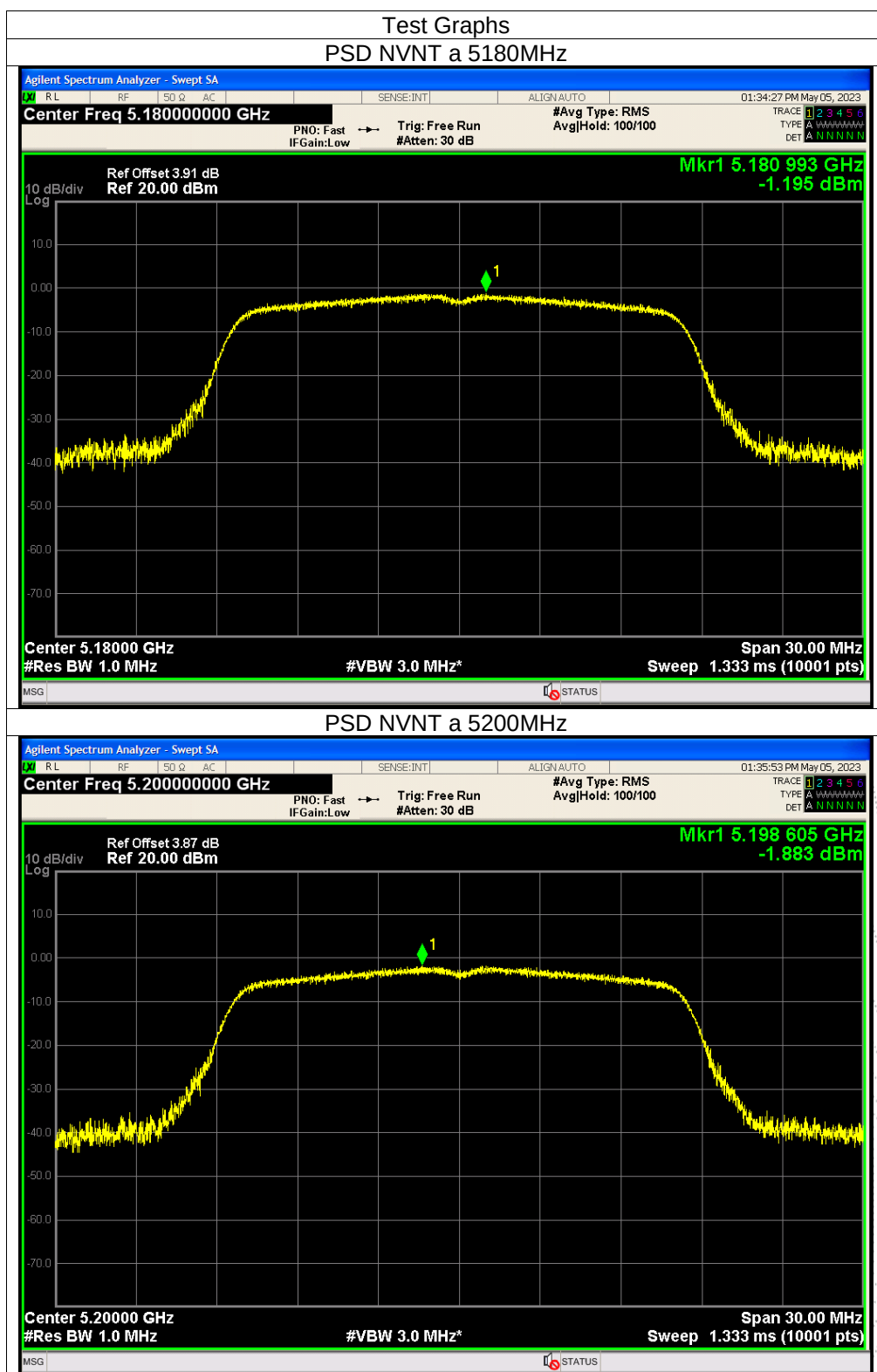


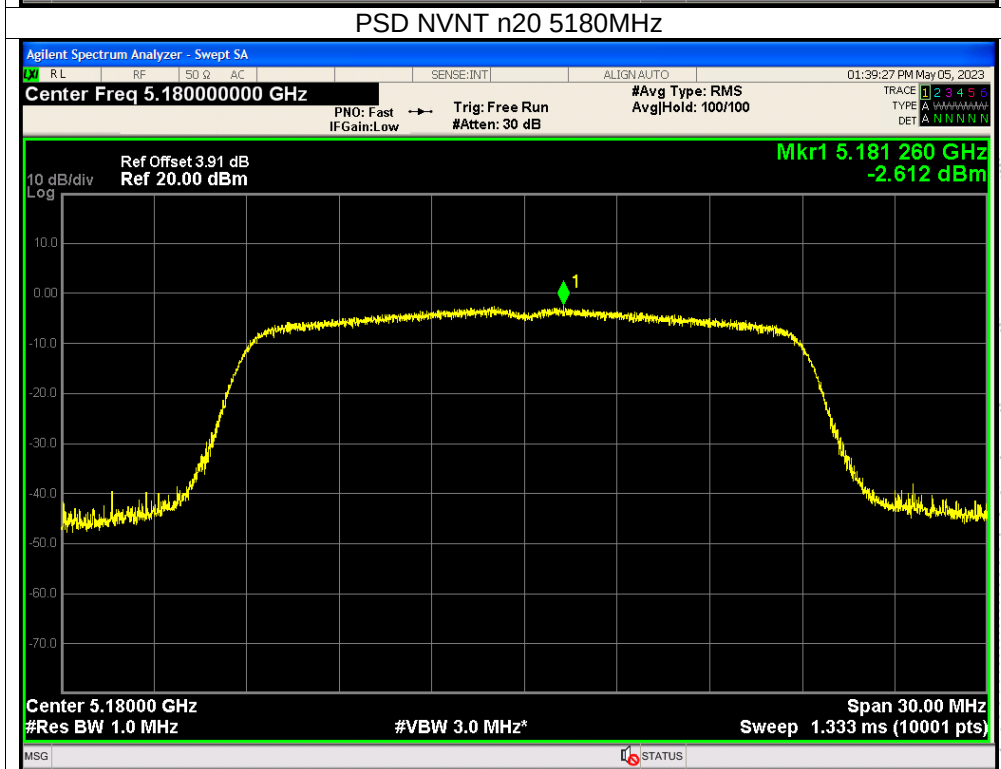
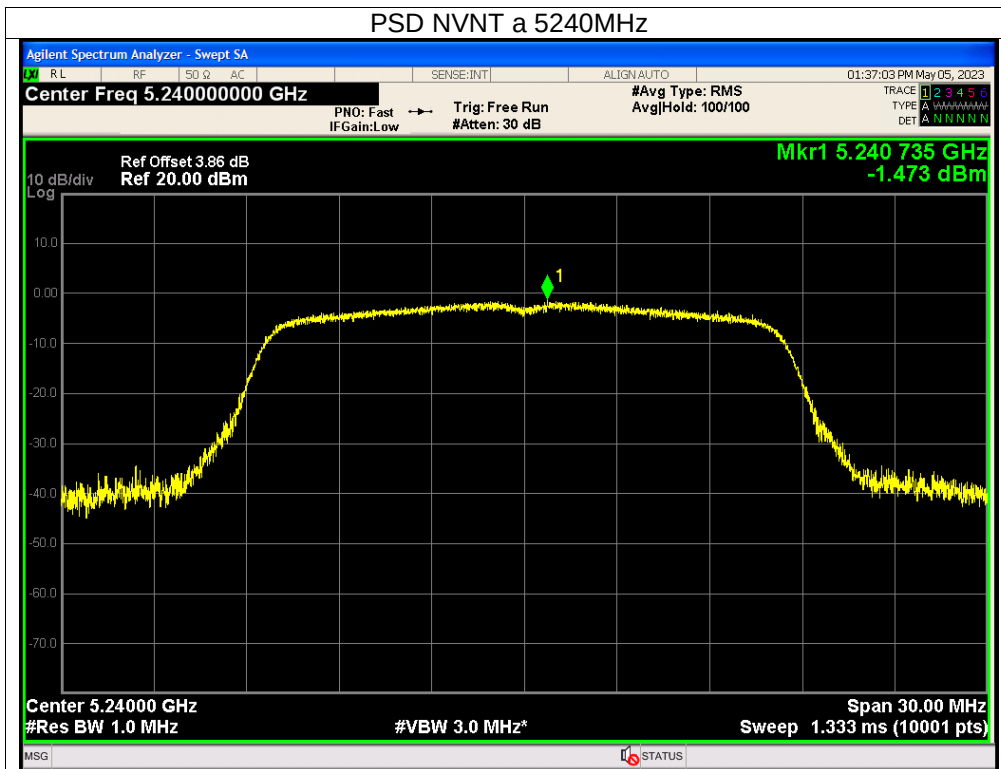
8.5 Test Result

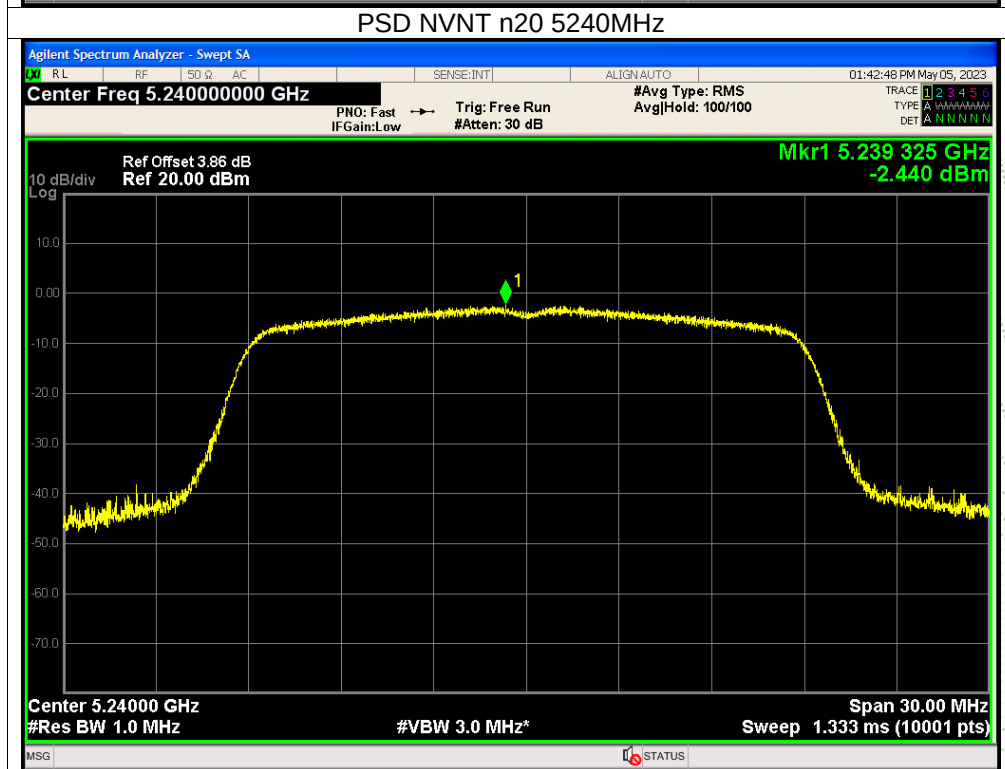
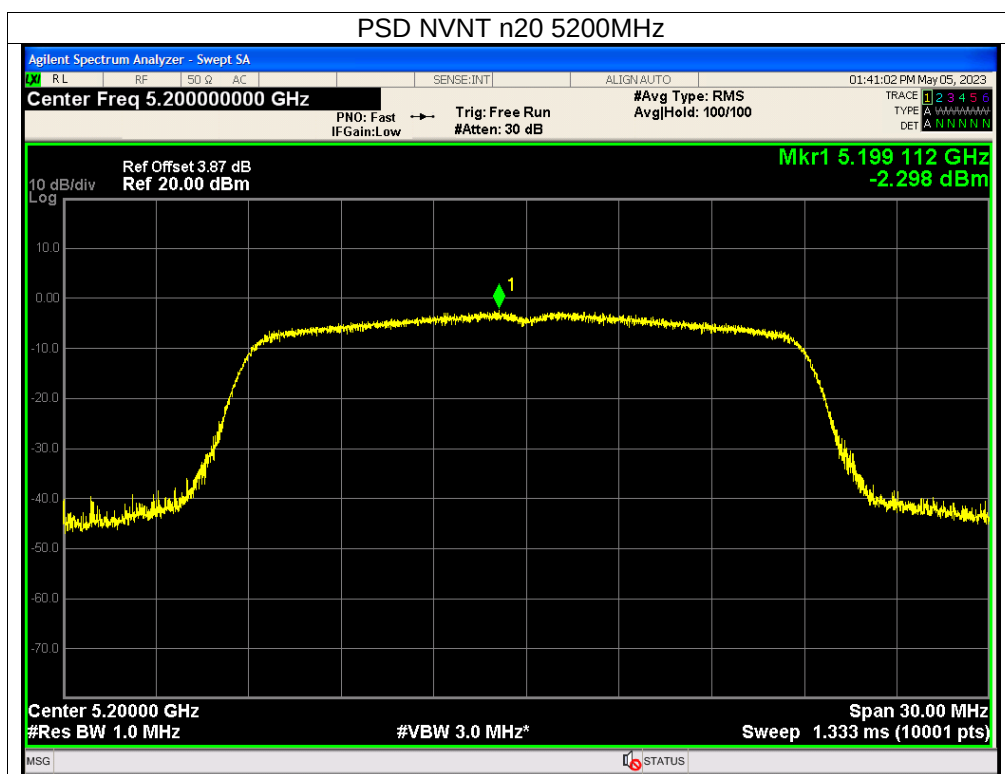
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 5V
Test Mode :	(5180-5240MHz); (5745-5825MHz)		

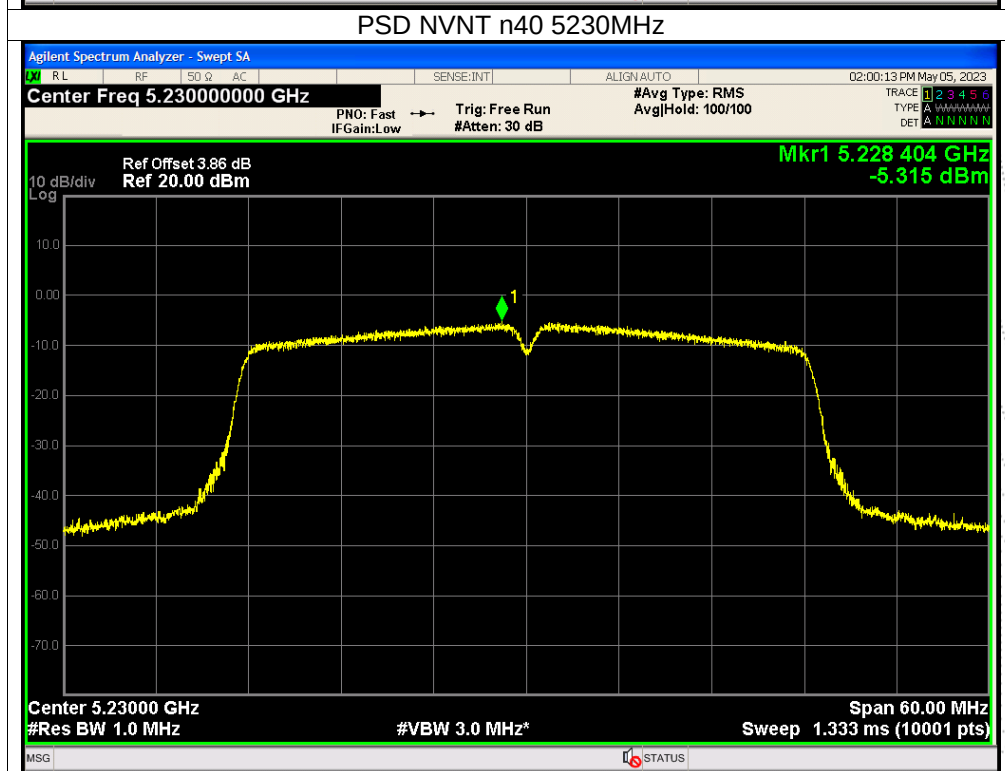
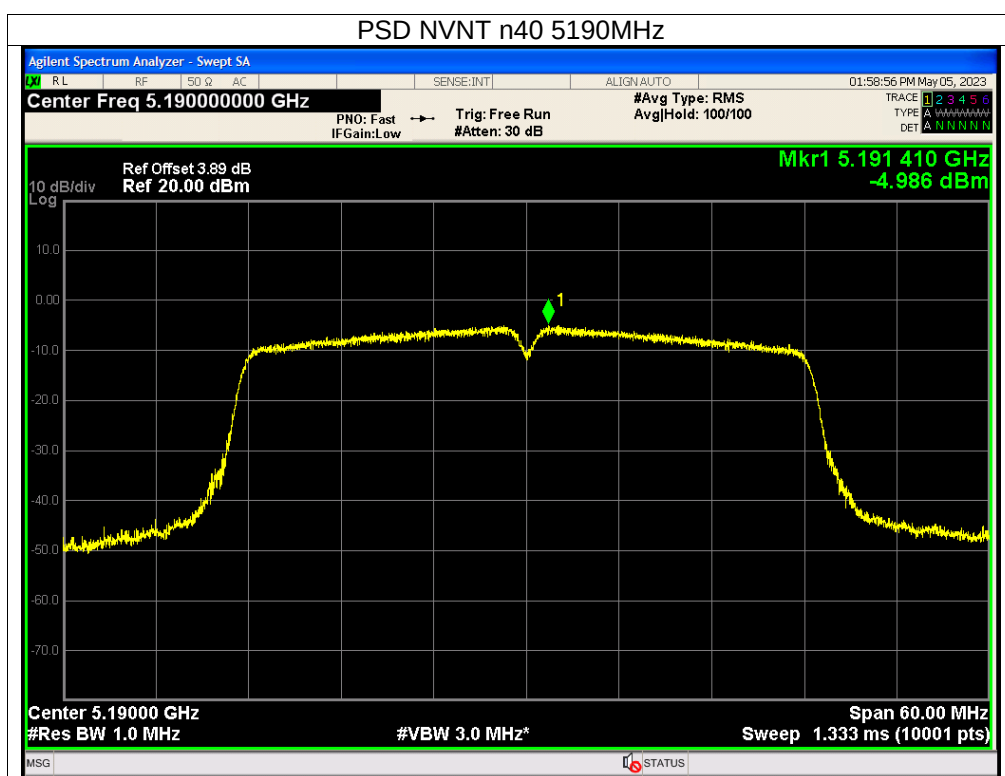
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/1MHz)	Limit (dBm/1MHz)	Verdict
NVNT	a	5180	-1.2	11	Pass
NVNT	a	5200	-1.88	11	Pass
NVNT	a	5240	-1.47	11	Pass
NVNT	n20	5180	-2.61	11	Pass
NVNT	n20	5200	-2.3	11	Pass
NVNT	n20	5240	-2.44	11	Pass
NVNT	n40	5190	-4.99	11	Pass
NVNT	n40	5230	-5.32	11	Pass
NVNT	ac20	5180	-2.23	11	Pass
NVNT	ac20	5200	-2.63	11	Pass
NVNT	ac20	5240	-2.13	11	Pass
NVNT	ac40	5190	-5.48	11	Pass
NVNT	ac40	5230	-5.02	11	Pass
NVNT	ac80	5210	-9.29	11	Pass

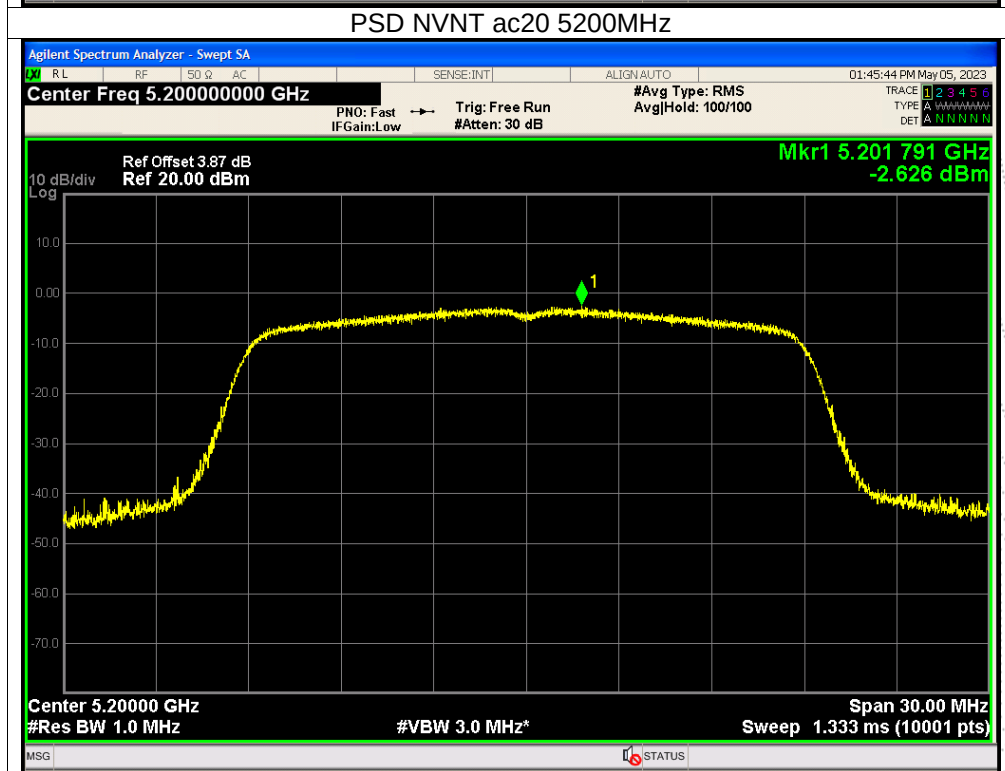
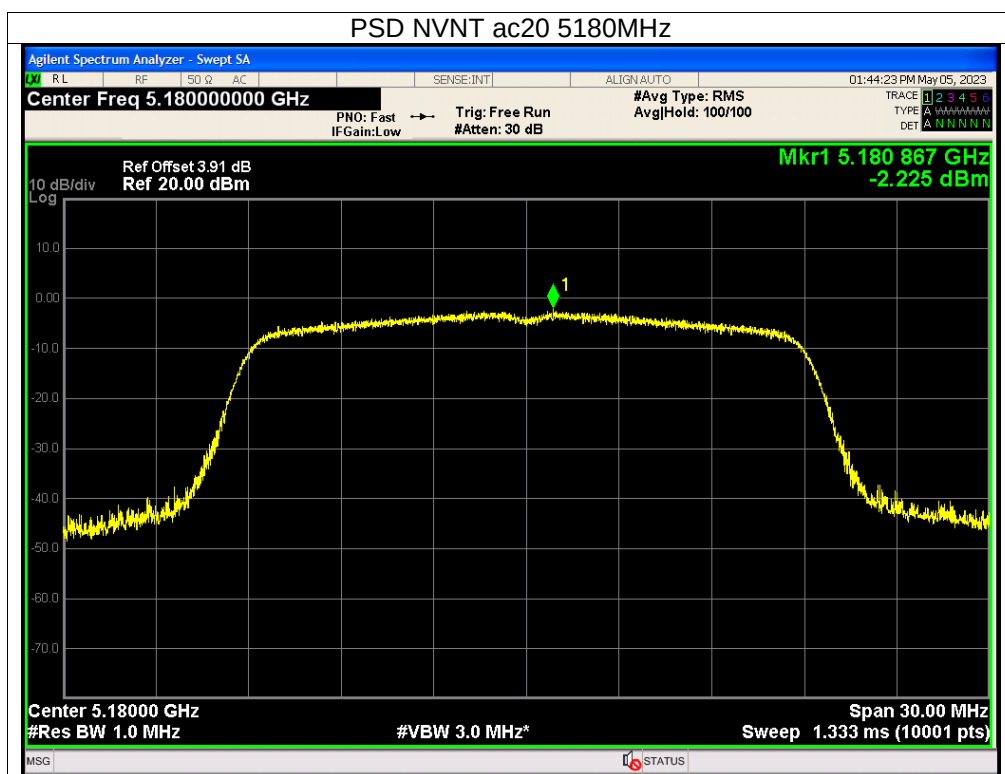
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	-4.04	30	Pass
NVNT	a	5785	-3.71	30	Pass
NVNT	a	5825	-2.18	30	Pass
NVNT	n20	5745	-4.95	30	Pass
NVNT	n20	5785	-5	30	Pass
NVNT	n20	5825	-3.55	30	Pass
NVNT	n40	5755	-7.92	30	Pass
NVNT	n40	5795	-8.04	30	Pass
NVNT	ac20	5745	-4.98	30	Pass
NVNT	ac20	5785	-4.97	30	Pass
NVNT	ac20	5825	-3.46	30	Pass
NVNT	ac40	5755	-7.69	30	Pass
NVNT	ac40	5795	-7.98	30	Pass
NVNT	ac80	5775	-12.72	30	Pass

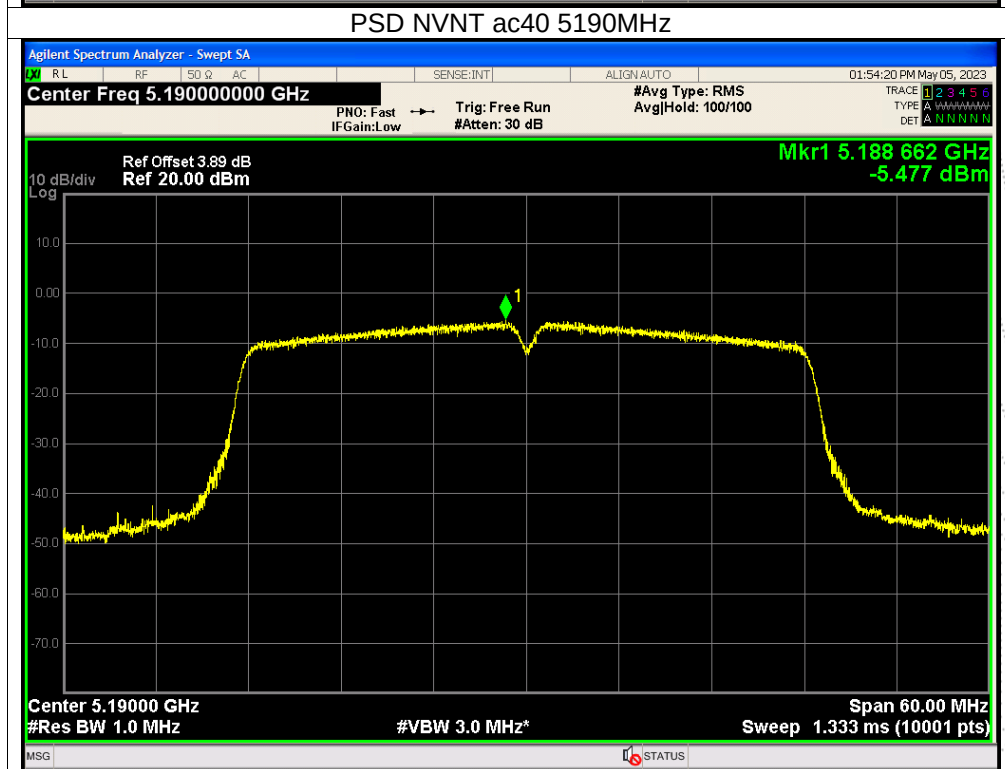
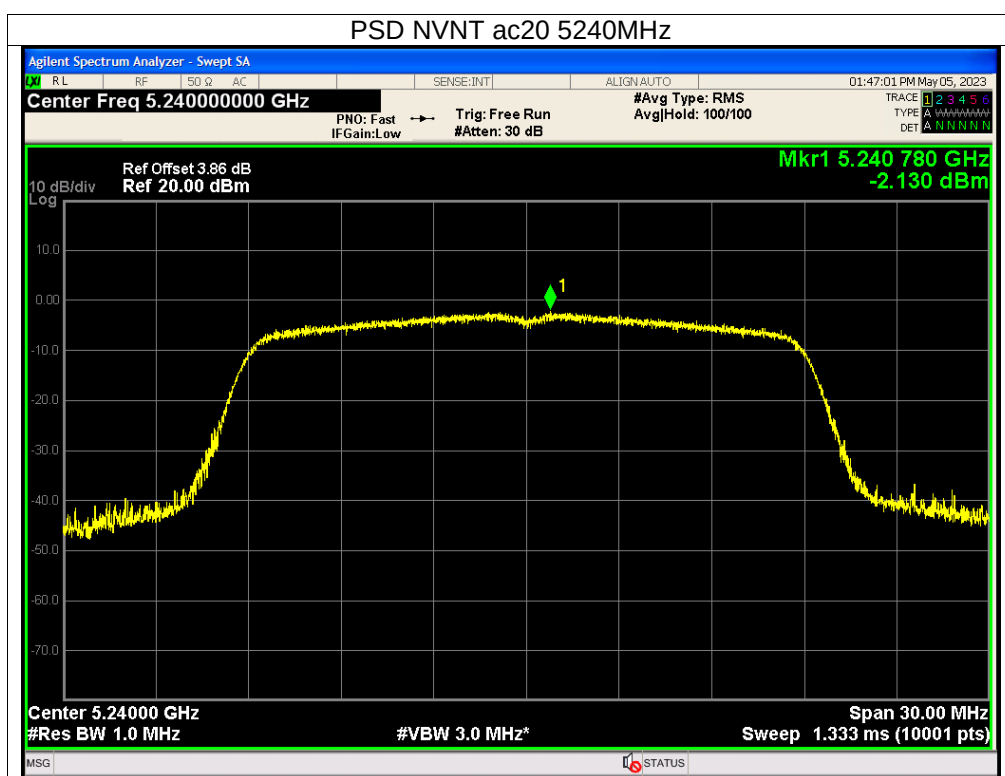


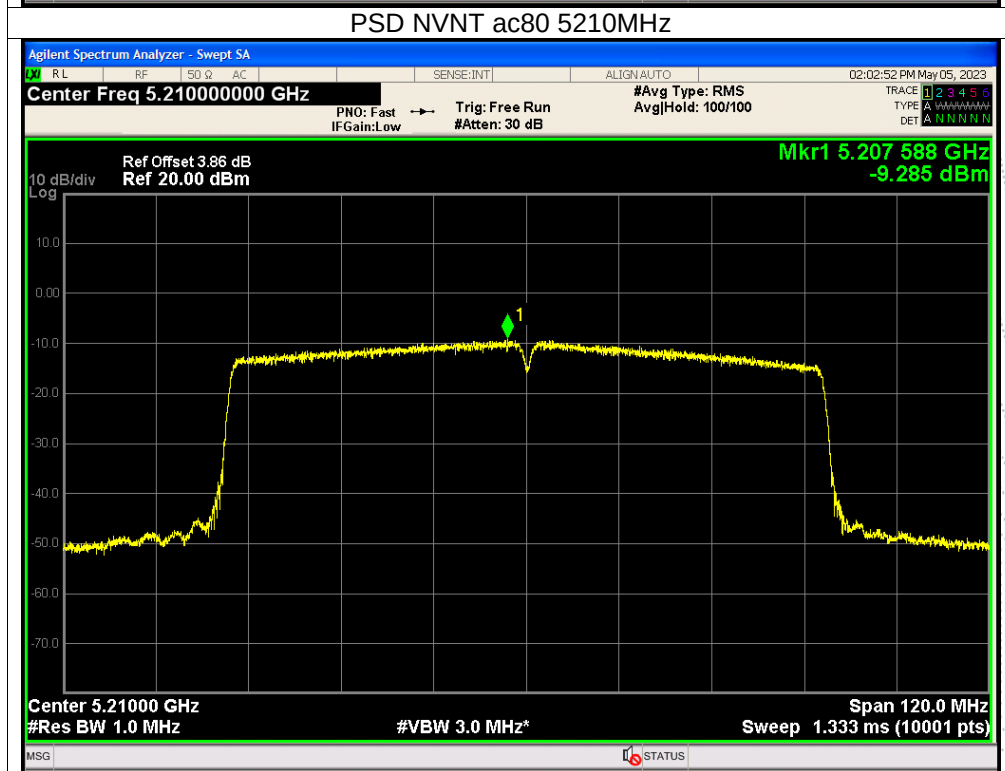
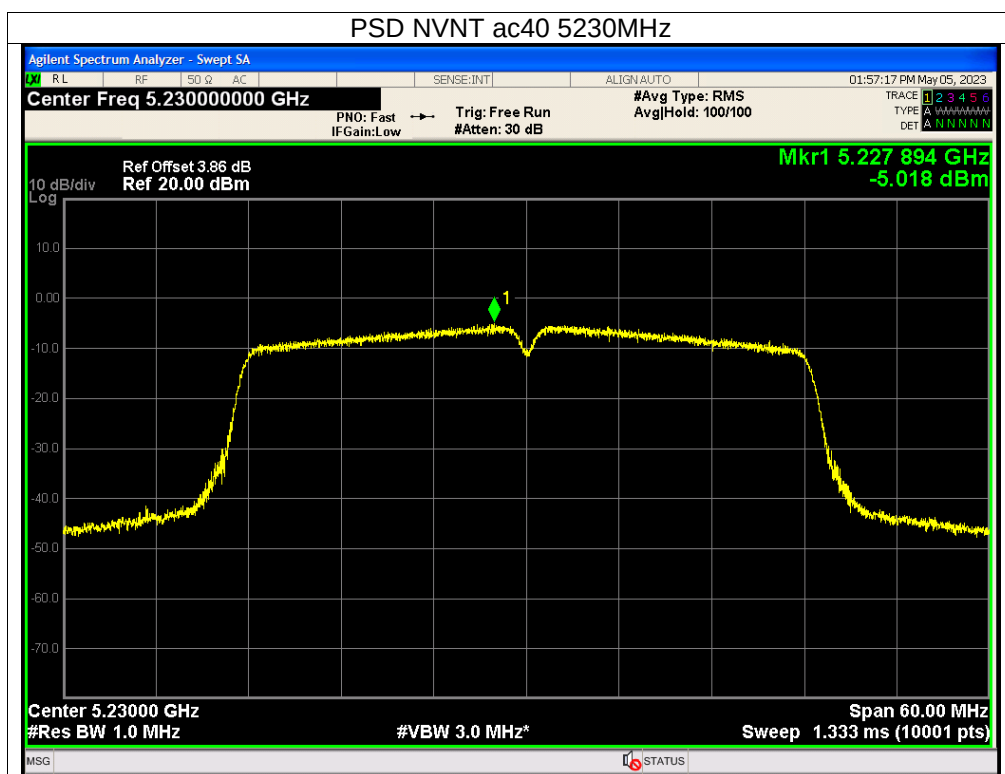


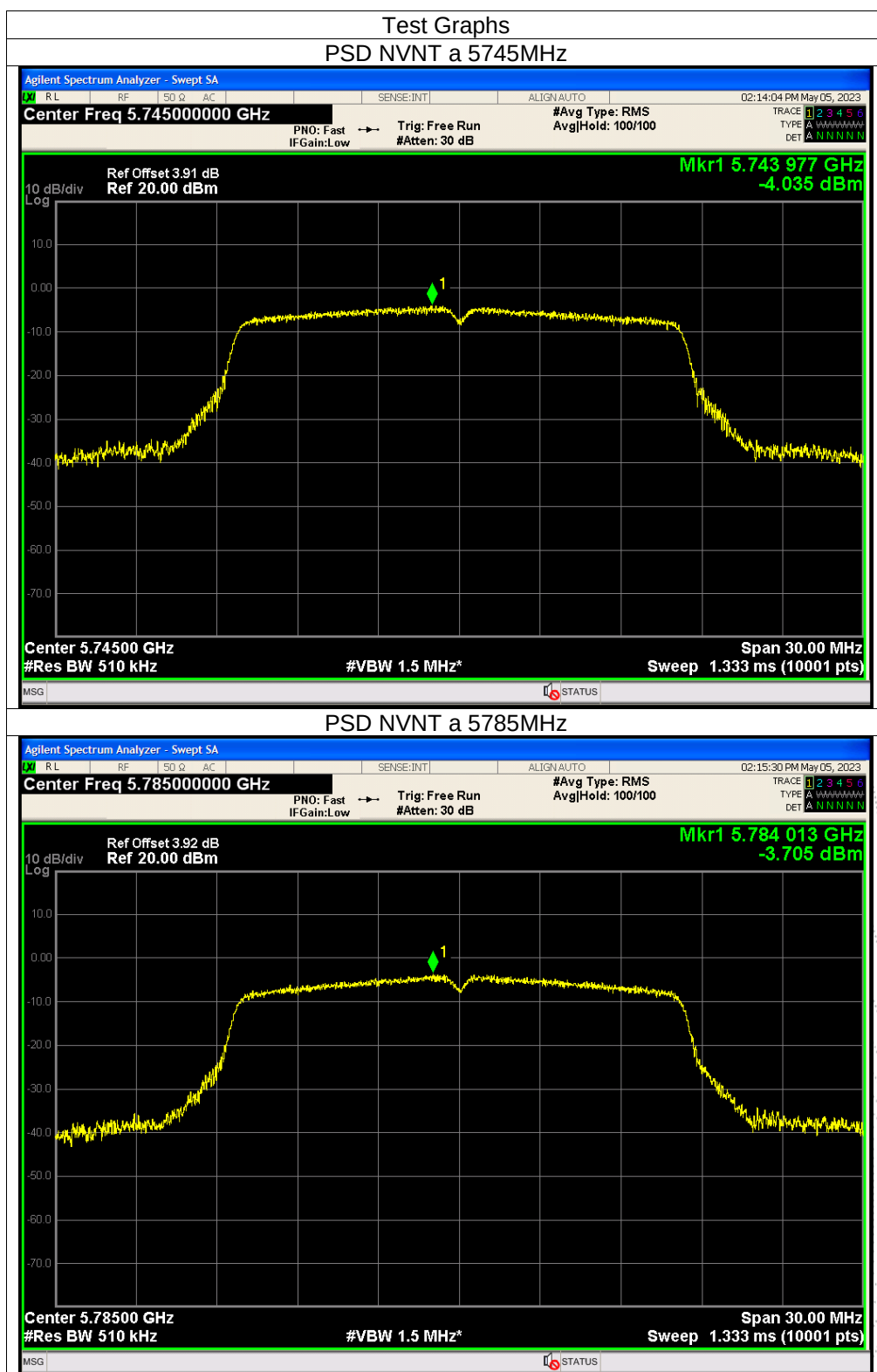


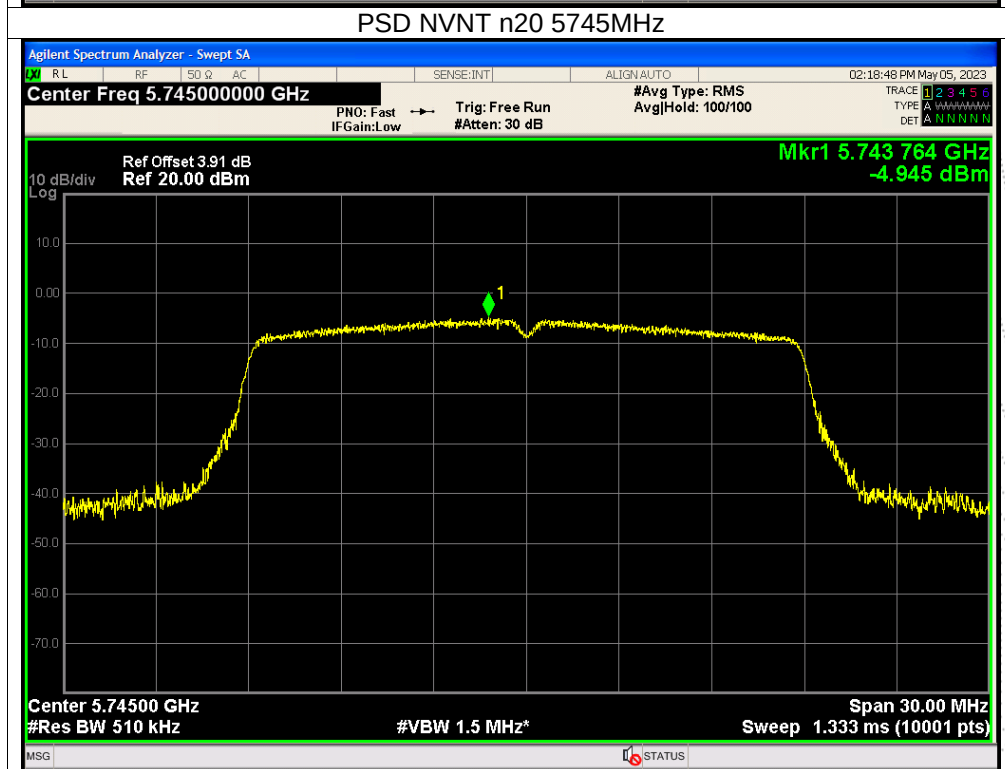
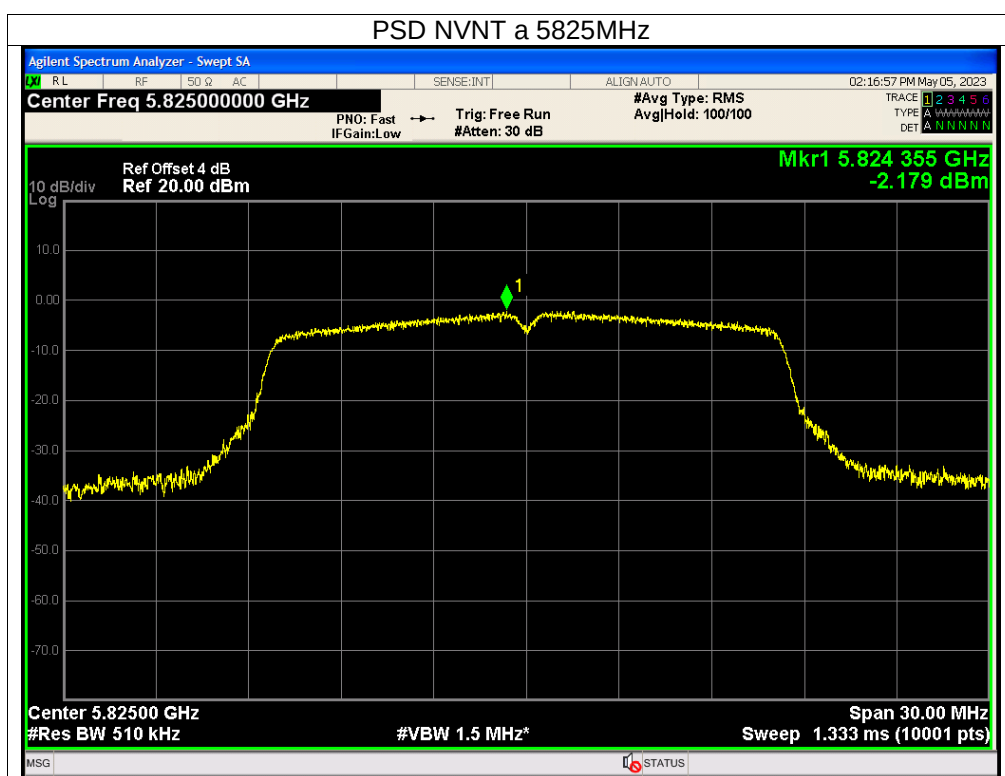


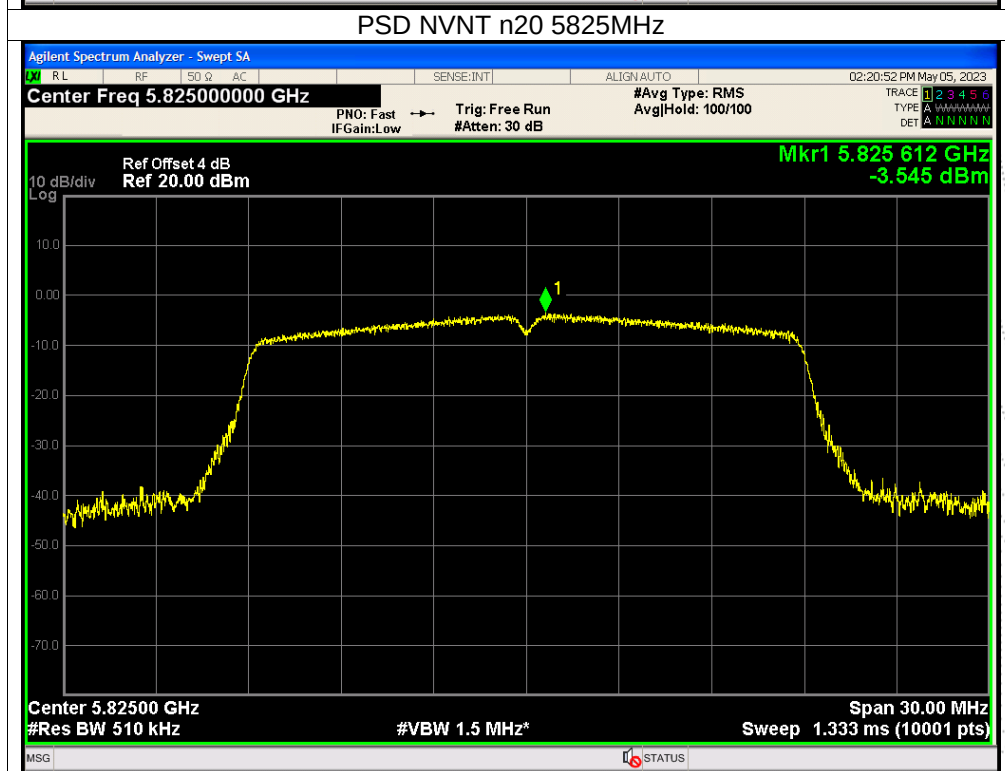
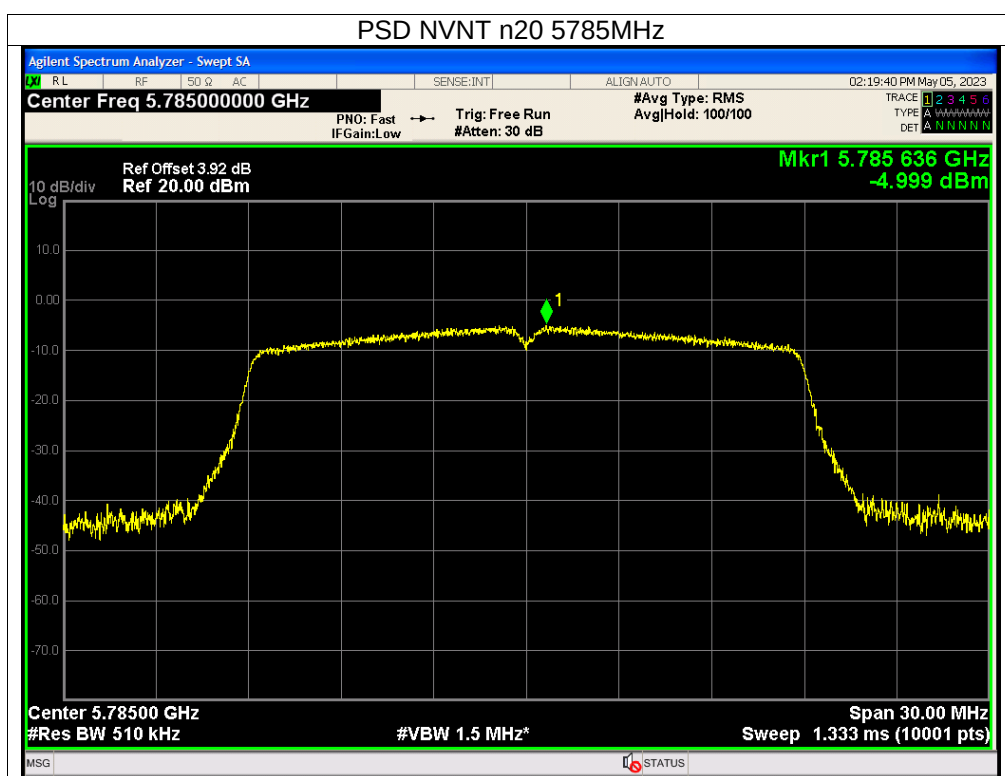


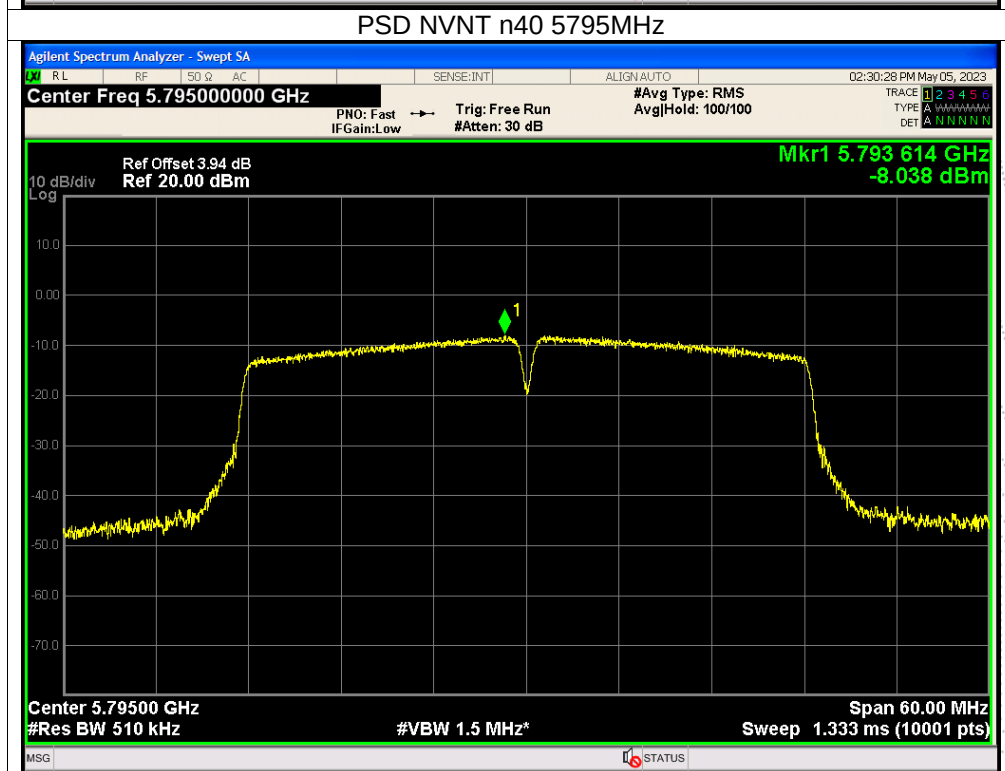
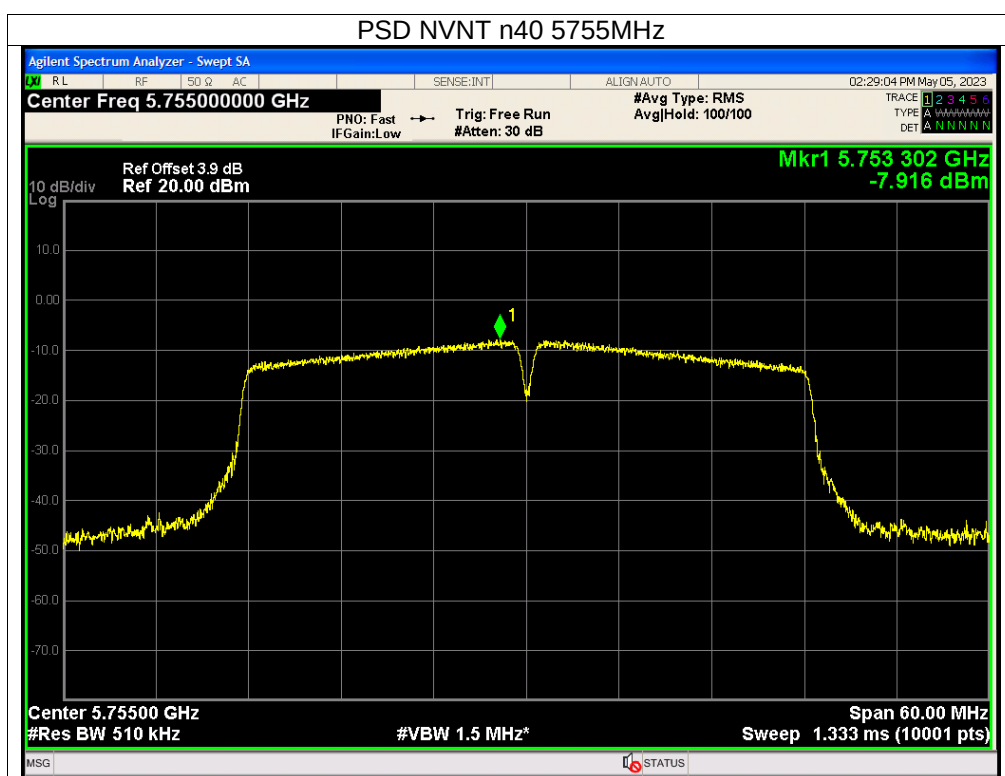


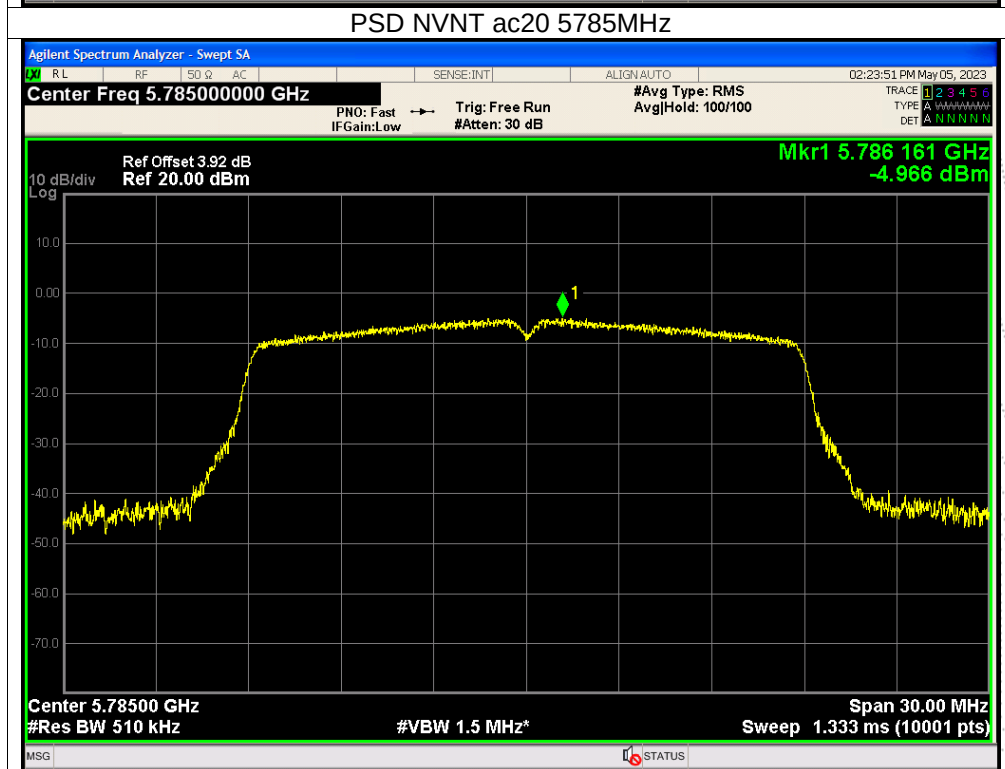
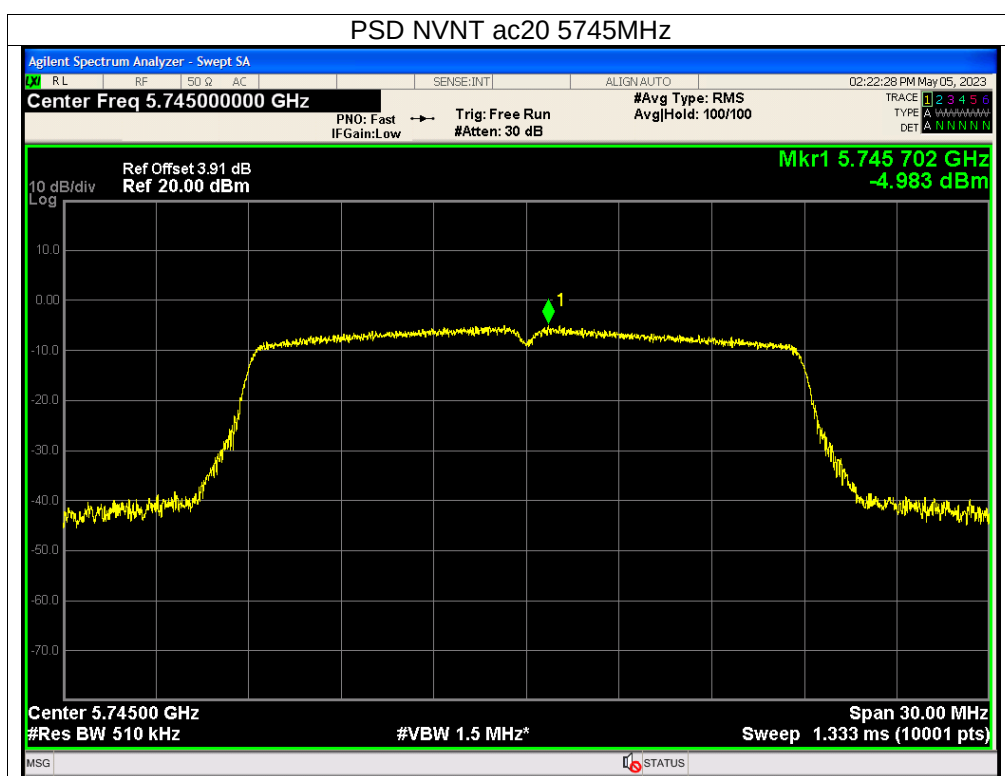


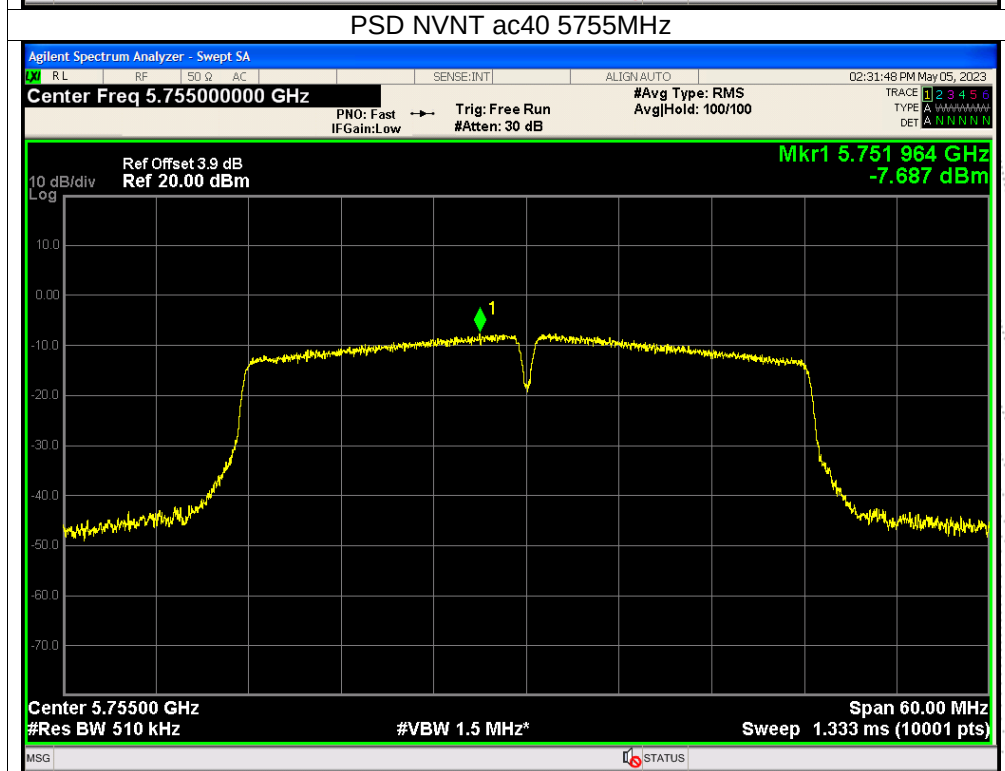
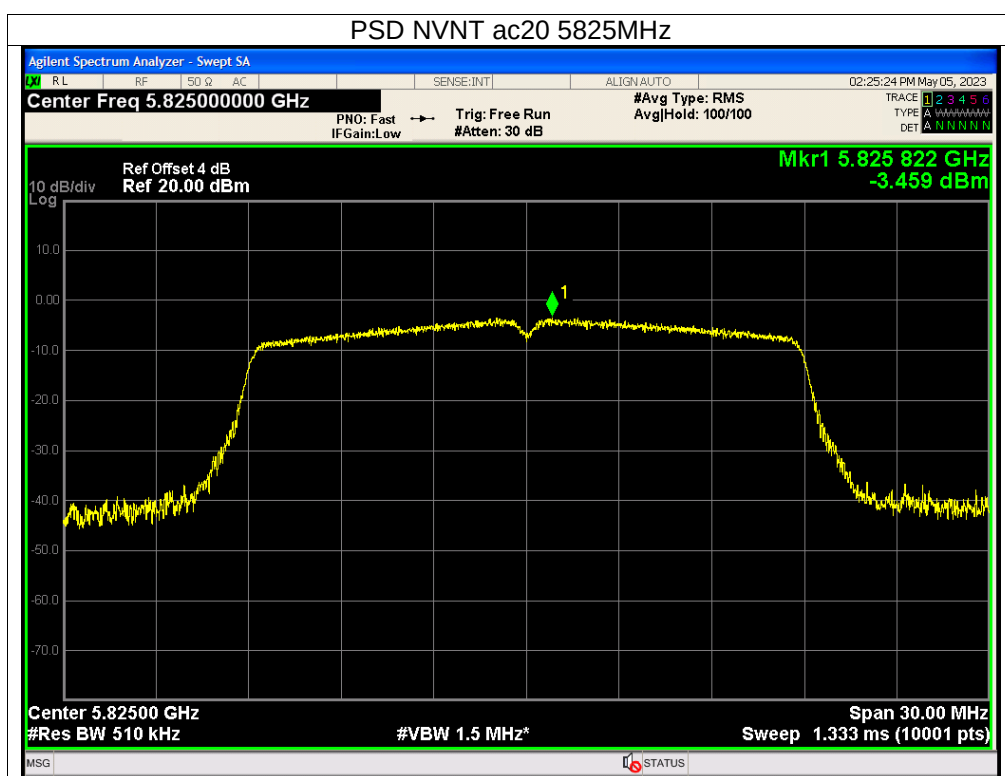


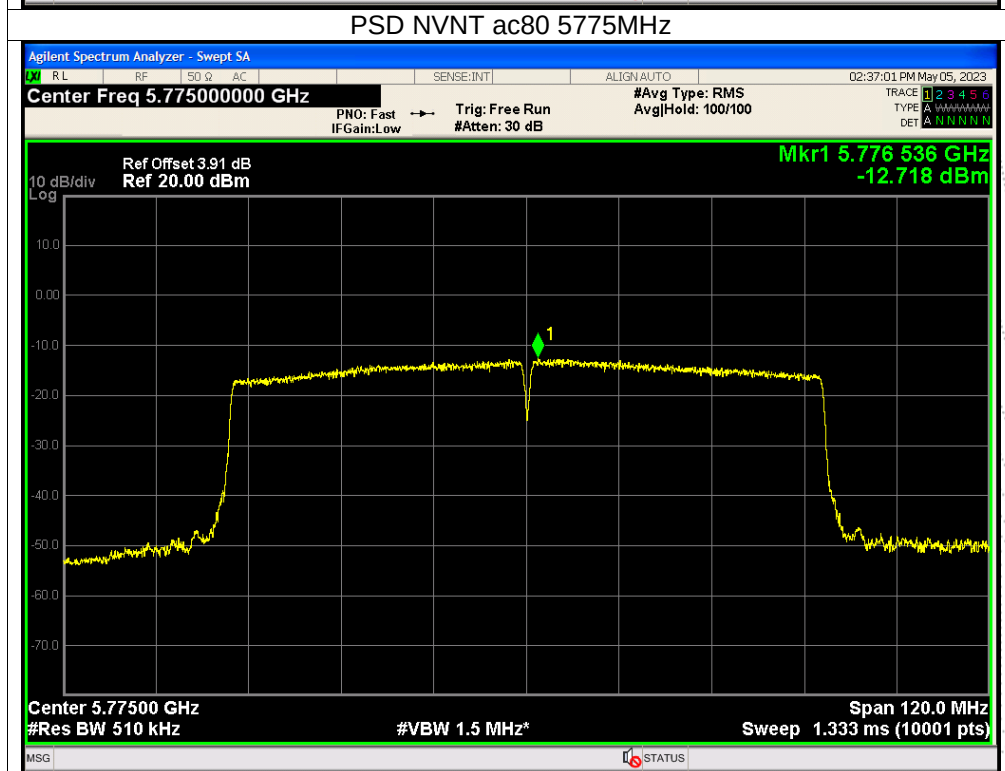
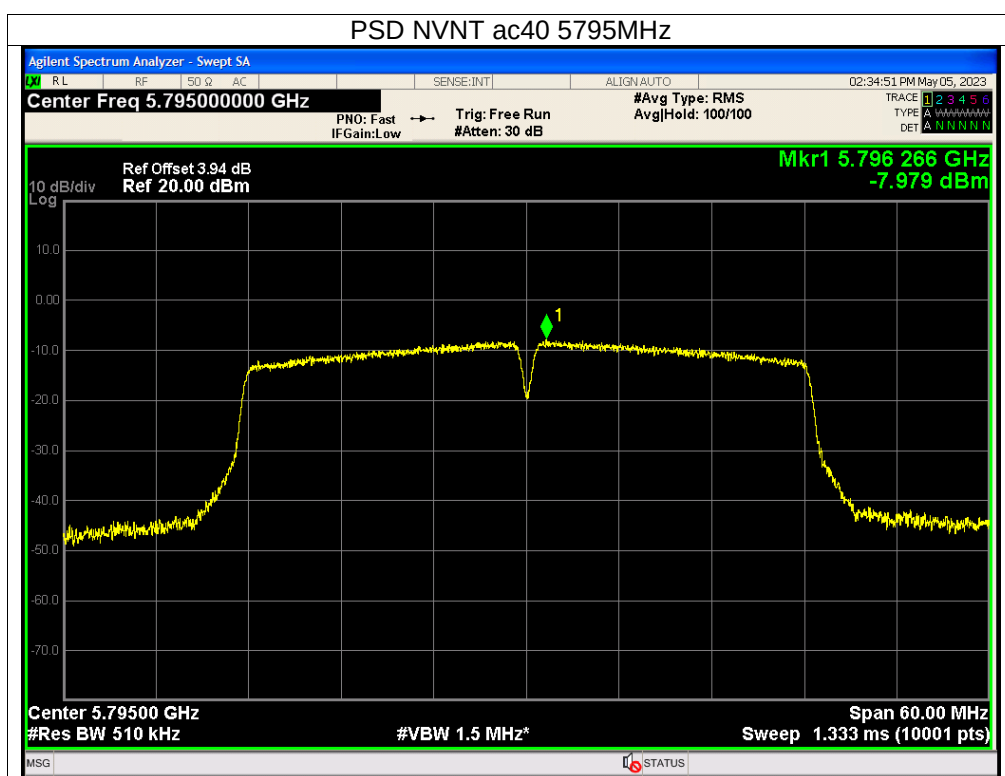






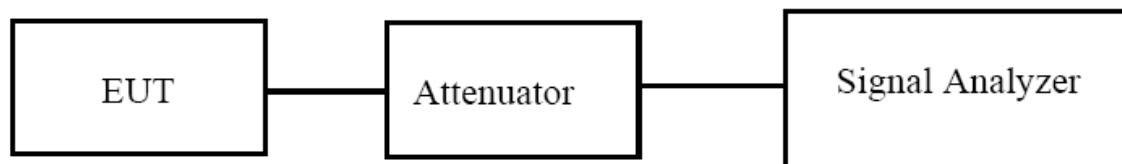






9. 26dB & 6dB & 99% Emission Bandwidth

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 5V
Test Mode :	TX Frequency U-NII-1 (5180-5240MHz)		

Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-26dB bandwidth (MHz)	Result
NVNT	a	5180	16.479	25.598	Pass
NVNT	a	5200	16.436	20.31	Pass
NVNT	a	5240	16.429	21.967	Pass
NVNT	n20	5180	17.547	20.284	Pass
NVNT	n20	5200	17.549	20.342	Pass
NVNT	n20	5240	17.573	20.43	Pass
NVNT	n40	5190	35.919	40.91	Pass
NVNT	n40	5230	35.929	41.277	Pass
NVNT	ac20	5180	17.567	20.399	Pass
NVNT	ac20	5200	17.583	20.087	Pass
NVNT	ac20	5240	17.575	20.296	Pass
NVNT	ac40	5190	35.935	41.208	Pass
NVNT	ac40	5230	35.933	44.902	Pass
NVNT	ac80	5210	75.145	80.123	Pass

