

TEST REPORT

Report No.: BCTC2504866392-4E

Applicant: DP AUDIO VIDEO LLC

Product Name: 32 INCH TABLET SCREEN

Test Model: DG3200RTV

Tested Date: 2025-05-21 to 2025-06-03

Issued Date: 2025-06-03

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AVRVOR3200RTV

Product Name: 32 INCH TABLET SCREEN
Trademark: DURAGO/ORCATV
Model/Type Reference: DG3200RTV
OR3200RTV
Prepared For: DP AUDIO VIDEO LLC
Address: 1001 Gayley Avenue P.O. Box 24857, Los Angeles, CA, USA 90024
Manufacturer: SHEN ZHEN NST INDUSTRY AND TRADE CO., LTD
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Prepared By: Shenzhen BCTC Testing Co., Ltd.
Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road,
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Sample Received Date: 2025-04-03
Sample Tested Date: 2025-05-21 to 2025-06-03
Issue Date: 2025-06-03
Report No.: BCTC2504866392-4E
FCC Part15 15.407
Test Standards: ANSI C63.10:2013
KDB 662911 D01 v02r01
KDB 789033 D02 v02r01
Test Results: PASS
Remark: This is WIFI-5GHz band radio test report.

Tested by:



Kelsey Tan/ Project Handler

Approved by:



Zero Zhou/Reviewer

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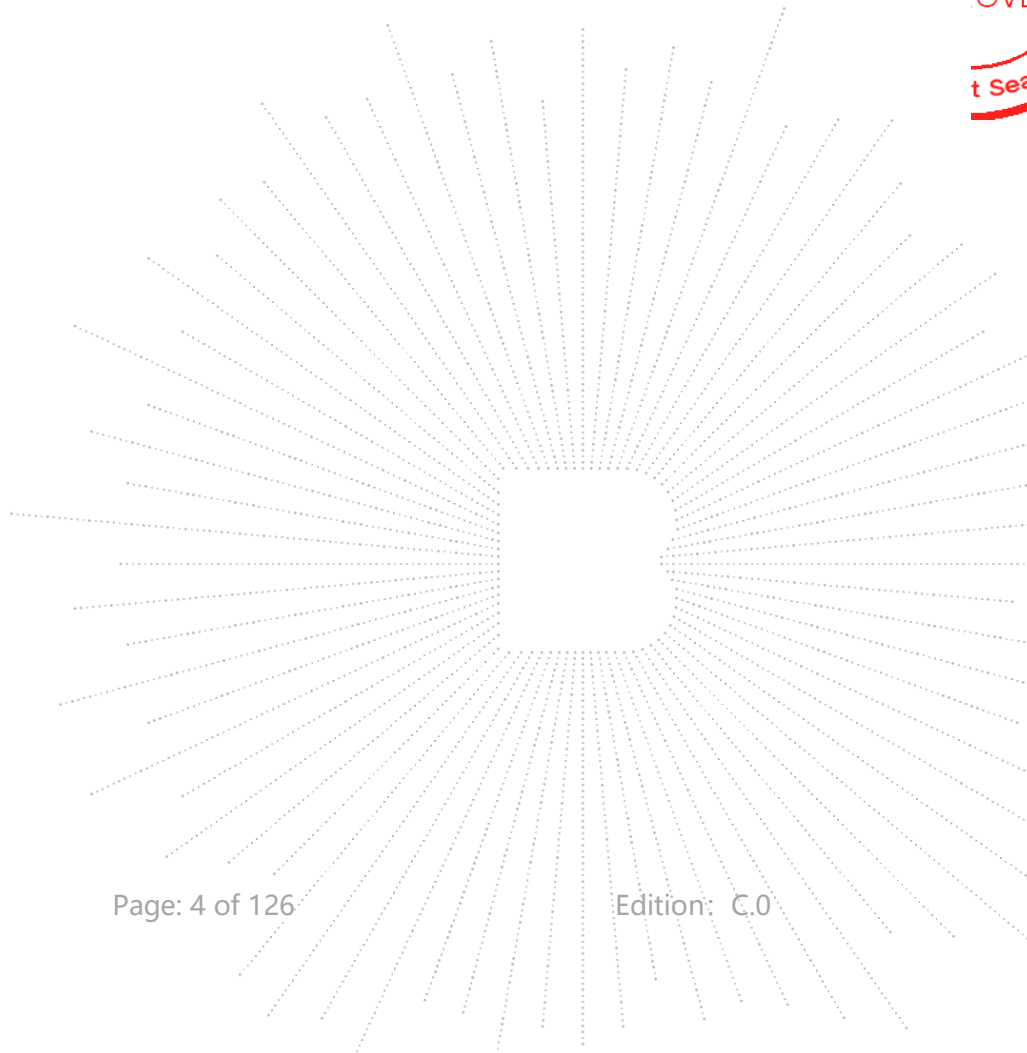
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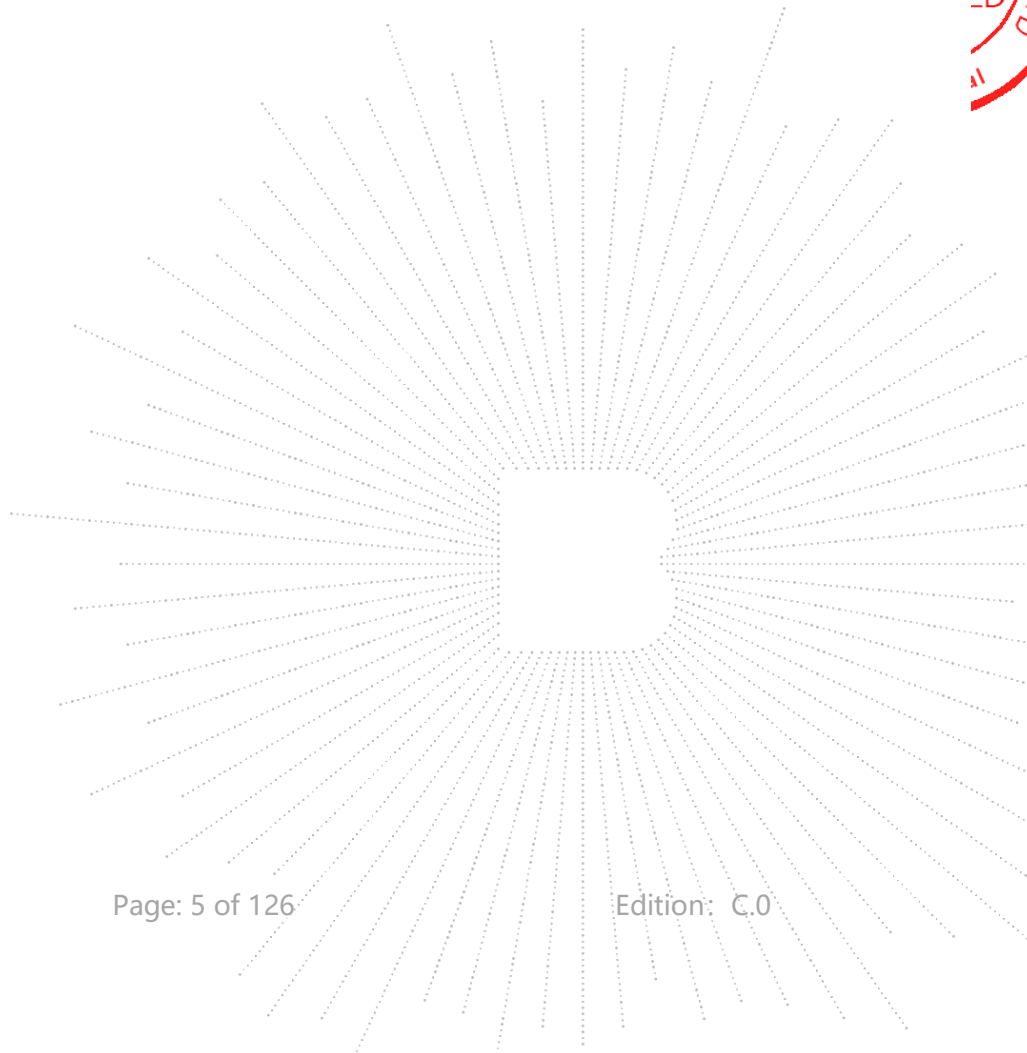
(Note: N/A Means Not Applicable)

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1. Version

Report No.	Issue Date	Description	Approved
BCTC2504866392-4E	2025-06-03	Original	Valid



2. Test Summary

The Product has been tested according to the following specifications:

1	Test Parameter	Clause No.	Results
1	Spurious Radiated Emissions	15.209(a), 15.407 (b)(1) 15.407 (b)(4) 15.407 (b)(8)	PASS
2	Conducted Emission	15.207	PASS
3	26 dB and 99% Emission Bandwidth	15.407 (a)(12) 15.1049	PASS
4	Minimum 6 dB bandwidth	15.407(e)	PASS
5	Maximum Conducted Output Power	15.407 (a)(1) 15.407 (a)(3)	PASS
6	Band Edge	2.1051, 15.407(b)(1) 15.407(b)(4)	PASS
7	Power Spectral Density	15.407 (a)(1) 15.407 (a)(3)	PASS
8	Spurious Emissions at Antenna Terminals	2.1051, 15.407(b)	PASS
9	Antenna Requirement	15.203	PASS

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

CO., LTD.

3. Measurement Uncertainty

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

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9KHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission (150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Power Spectral Density	U=1.19dB
8	Conducted output power uncertainty Above 1G	U=1.576dB
9	Conducted output power uncertainty below 1G	U=1.28dB
10	Conducted spurious emissions	U=0.55dB
11	Occupied Bandwidth/Frequency Range	U=3.46%
12	humidity uncertainty	U=5.3%
13	Temperature uncertainty	U=0.59°C
14	Frequency Error	U=53.50Hz
15	Frequency Drift	U=0.64kHz

4. Product Information And Test Setup

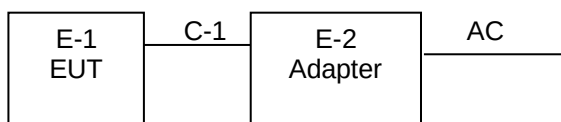
4.1 Product Information

Model/Type Reference:	DG3200RTV OR3200RTV
Model Differences:	All the model are the same circuit and RF module, except model names.
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)
Operation Frequency:	5180-5240MHz for 802.11a/n(HT20)/ac20; 5190-5230MHz for 802.11n(HT40)/ac40; 5210MHz for 802.11 ac80; 5745-5825 MHz for 802.11a/n(HT20)/ac20; 5755-5795 MHz for 802.11a/n(HT40)/ac40; 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:	2.46 dBi Remark: ☒ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☐ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Ratings:	DC 18V 6.0A Battery:DC 12.8V
Adapter Information:	Manufacture:Shenzhen Merryking Electronics Co., Ltd Model No.:MKI-1800600C6 Input: AC100-120V 50/60Hz 2.0A Max Output: DC18V 6.0A 108.0W

4.2 Test Setup Configuration

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

Conducted Emission and Radiated Spurious Emission:



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	32 INCH ROLLABLE SMART TOUCHSCREEN TV	DURAGO/ ORCATV	DG3200RTV	---	EUT
E-2	Adapter	---	MKI-1800600C6	---	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	---	---	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

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

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)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	-	-	-	-	-	-

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

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

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

802.11ac (80MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	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

Note: The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

4.6 Table Of Parameters Of Text Software Setting

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

Test software Version	SecureCRT		
Parameters	DEF	DEF	DEF

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

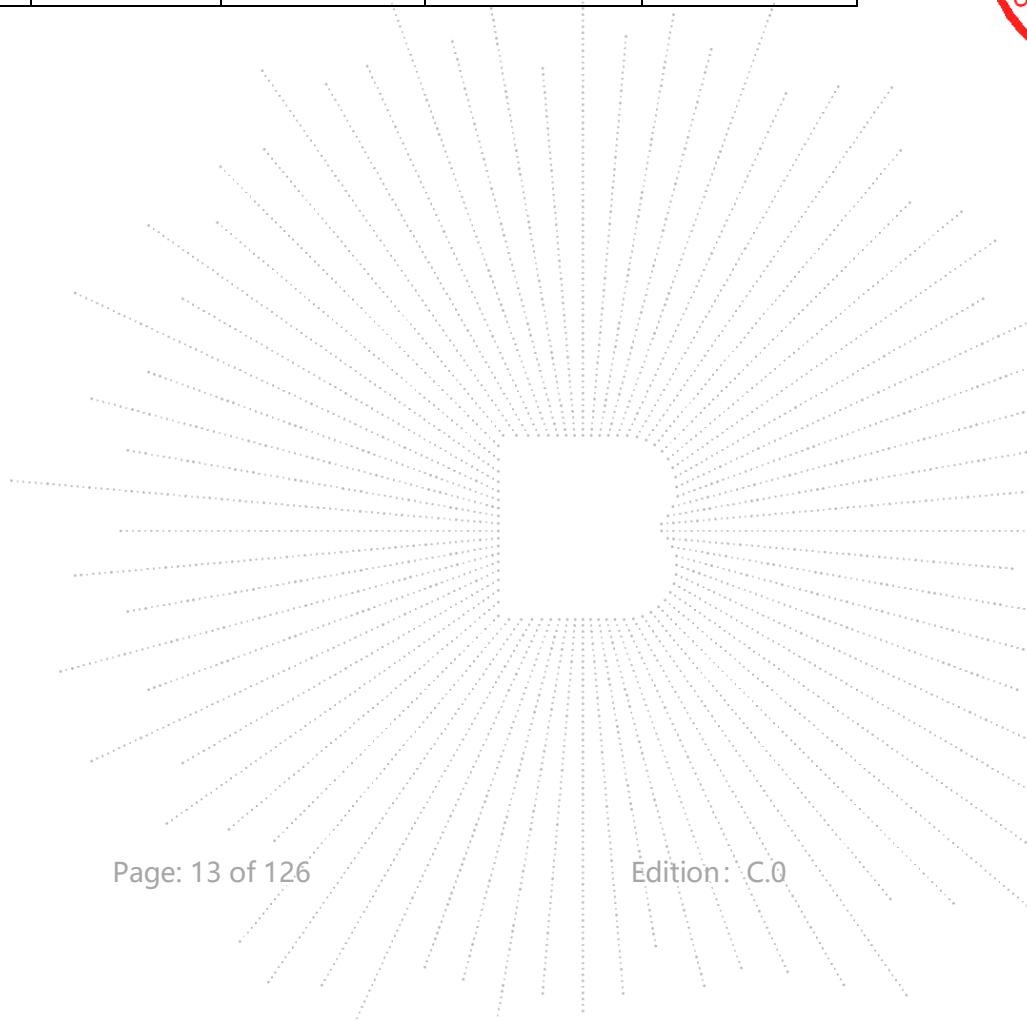
5.2 Test Instrument Used

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

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

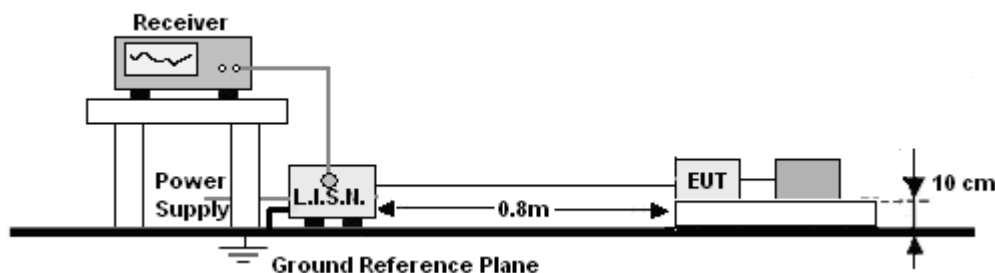
Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR	102075	May 08, 2025	May 07, 2026
Receiver	R&S	ESRP	101154	May 14, 2025	May 13, 2026
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 14, 2025	May 13, 2026
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 24, 2025	May 23, 2026
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 24, 2025	May 23, 2026
Amplifier	SKET	LAPA_01G18 G-45dB	SK2021040901	May 14, 2025	May 13, 2026
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 24, 2025	May 23, 2026
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 24, 2025	May 23, 2026
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 24, 2025	May 23, 2026
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 14, 2025	May 13, 2026
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

CHENZHEN



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

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

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

6.3 Test procedure

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

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

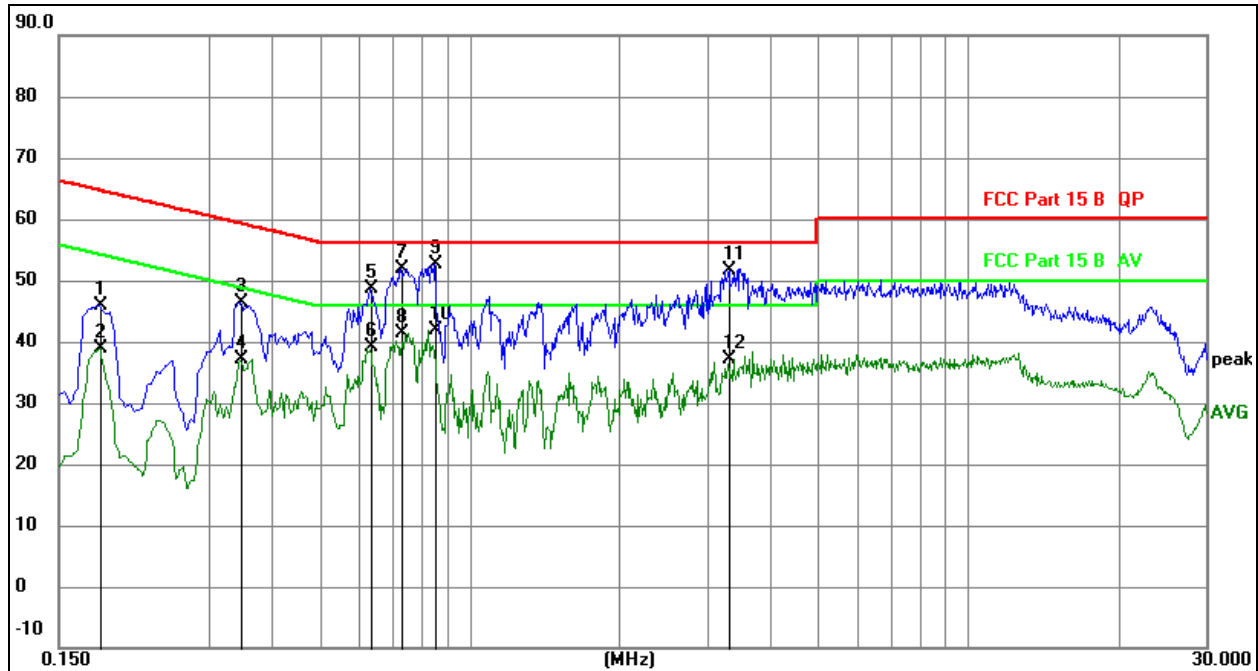
6.4 EUT operating Conditions

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

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

6.5 Test Result

Temperature:	24 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4	Polarization :	L

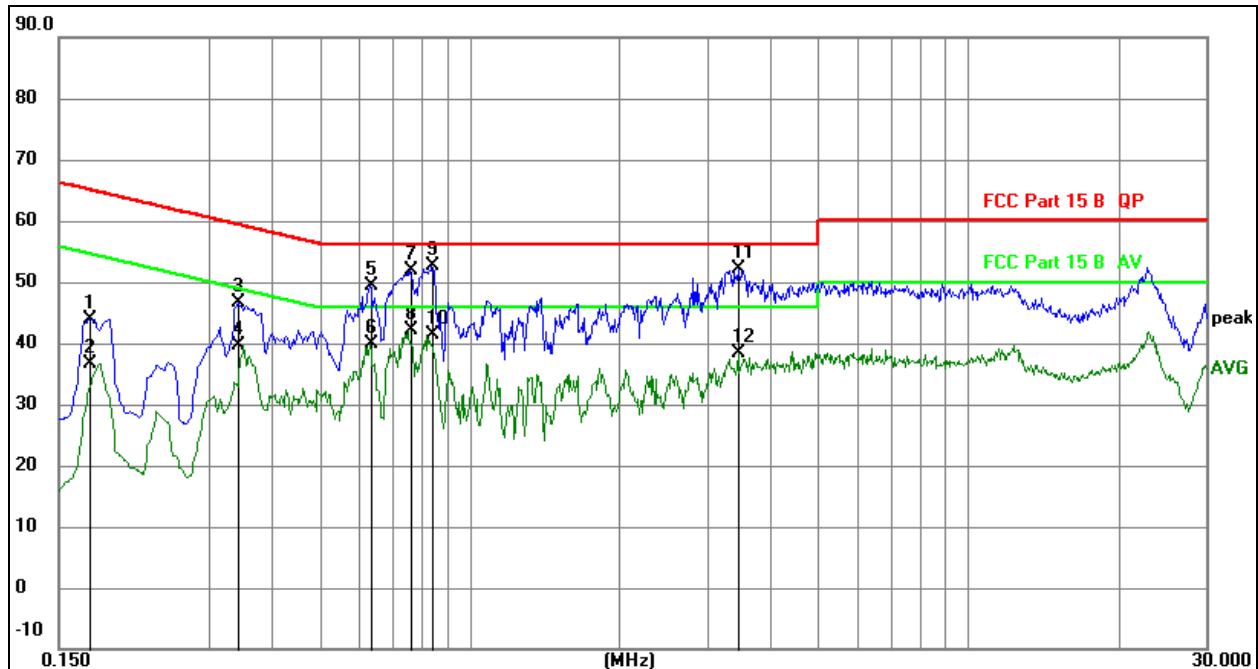


Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1815	25.70	20.07	45.77	64.42	-18.65	QP
2		0.1815	18.88	20.07	38.95	54.42	-15.47	AVG
3		0.3480	26.29	20.07	46.36	59.01	-12.65	QP
4		0.3480	17.11	20.07	37.18	49.01	-11.83	AVG
5		0.6315	28.44	20.09	48.53	56.00	-7.47	QP
6		0.6315	19.07	20.09	39.16	46.00	-6.84	AVG
7		0.7304	31.84	20.09	51.93	56.00	-4.07	QP
8		0.7304	21.23	20.09	41.32	46.00	-4.68	AVG
9	*	0.8520	32.65	20.09	52.74	56.00	-3.26	QP
10		0.8520	21.72	20.09	41.81	46.00	-4.19	AVG
11		3.3225	31.45	20.13	51.58	56.00	-4.42	QP
12		3.3225	16.96	20.13	37.09	46.00	-8.91	AVG

Temperature:	24 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4	Polarization:	N



Remark:

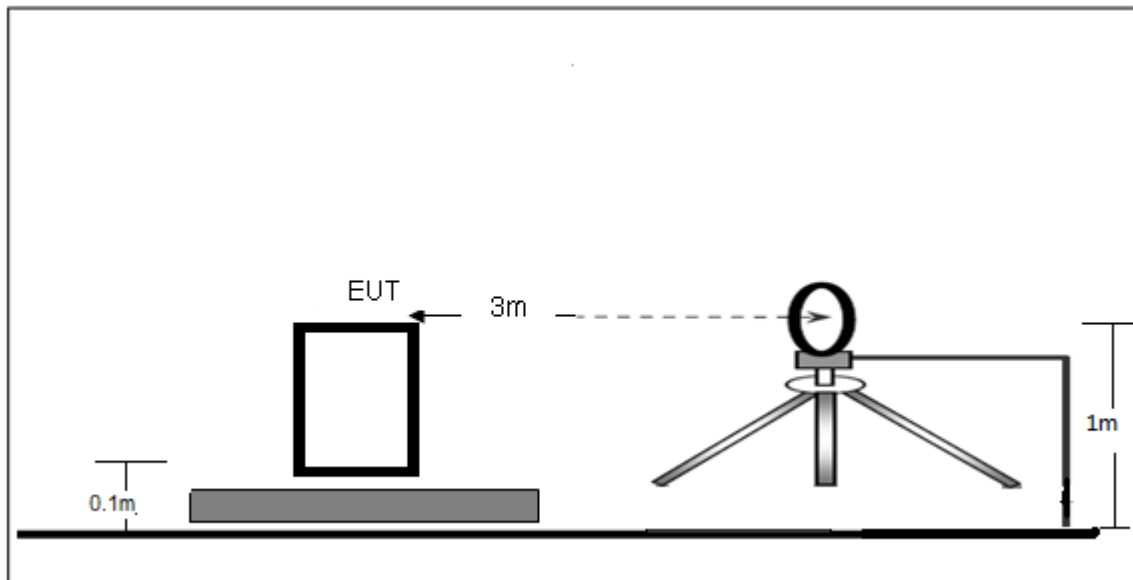
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1725	23.86	20.07	43.93	64.84	-20.91	QP
2		0.1725	16.56	20.07	36.63	54.84	-18.21	AVG
3		0.3435	26.49	20.07	46.56	59.12	-12.56	QP
4		0.3435	19.60	20.07	39.67	49.12	-9.45	AVG
5		0.6315	29.21	20.09	49.30	56.00	-6.70	QP
6		0.6315	19.75	20.09	39.84	46.00	-6.16	AVG
7		0.7620	31.81	20.09	51.90	56.00	-4.10	QP
8		0.7620	22.04	20.09	42.13	46.00	-3.87	AVG
9	*	0.8430	32.46	20.09	52.55	56.00	-3.45	QP
10		0.8430	21.33	20.09	41.42	46.00	-4.58	AVG
11		3.4575	31.92	20.13	52.05	56.00	-3.95	QP
12		3.4575	18.13	20.13	38.26	46.00	-7.74	AVG

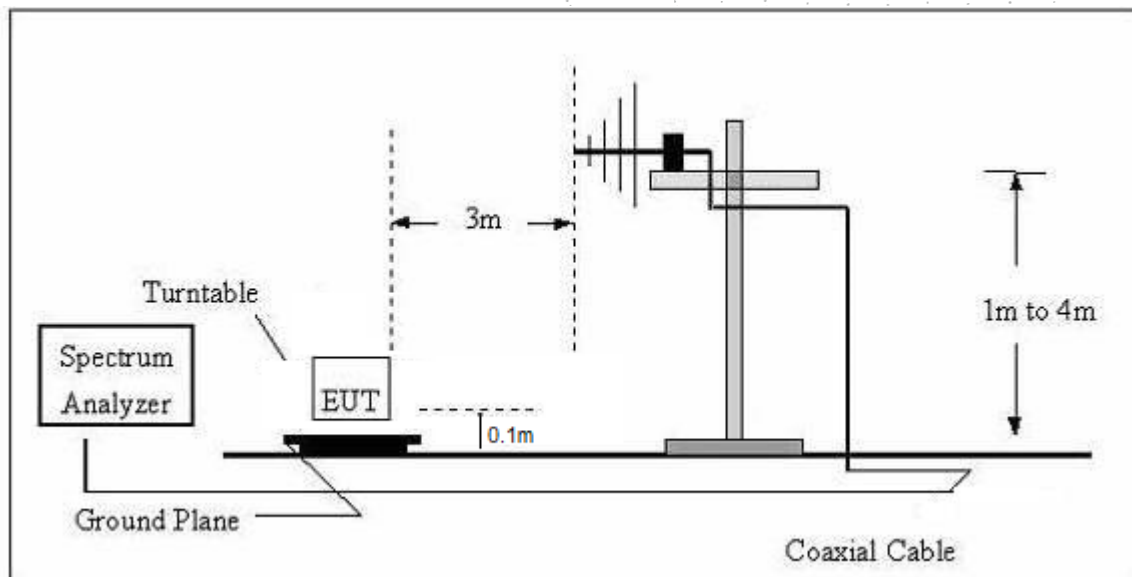
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

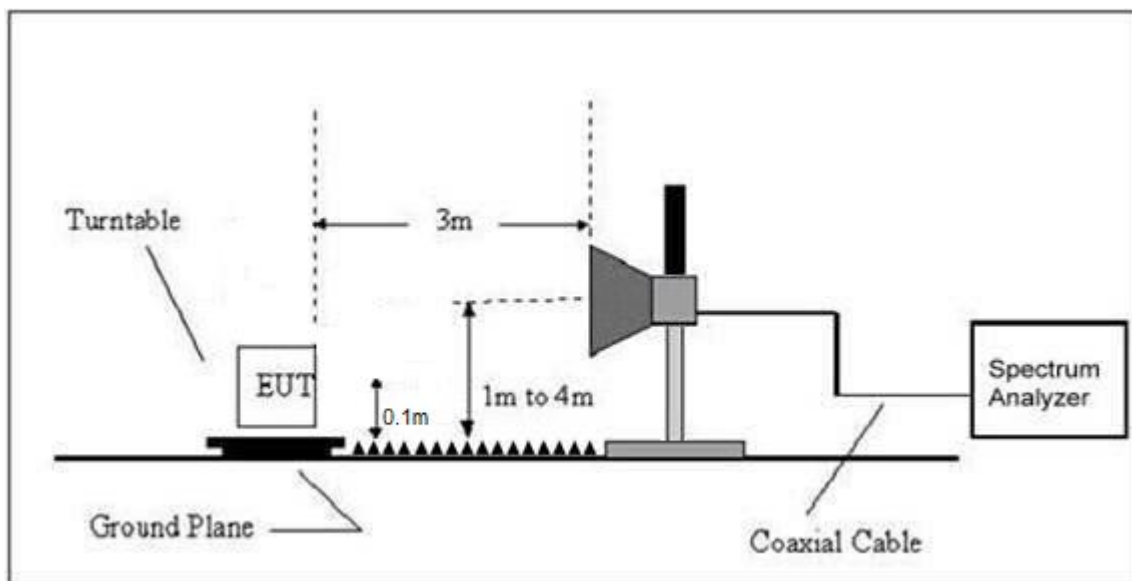
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4		

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

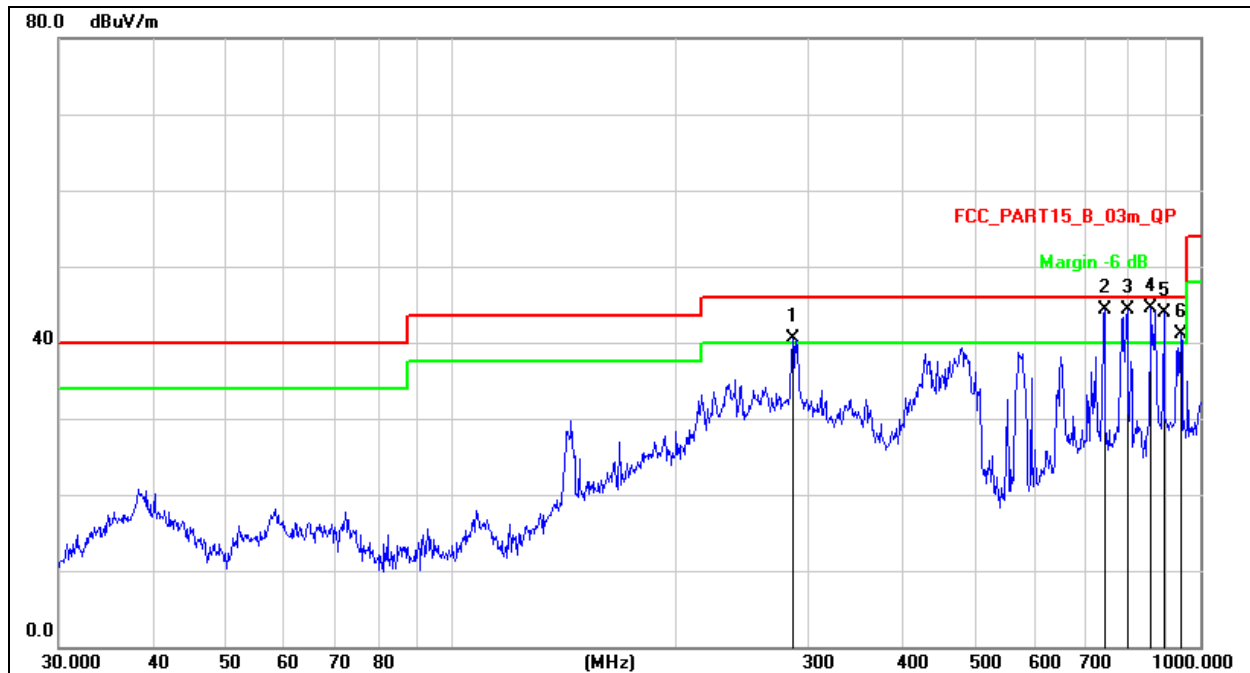
Note:

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

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

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

Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4	Polarization :	Horizontal

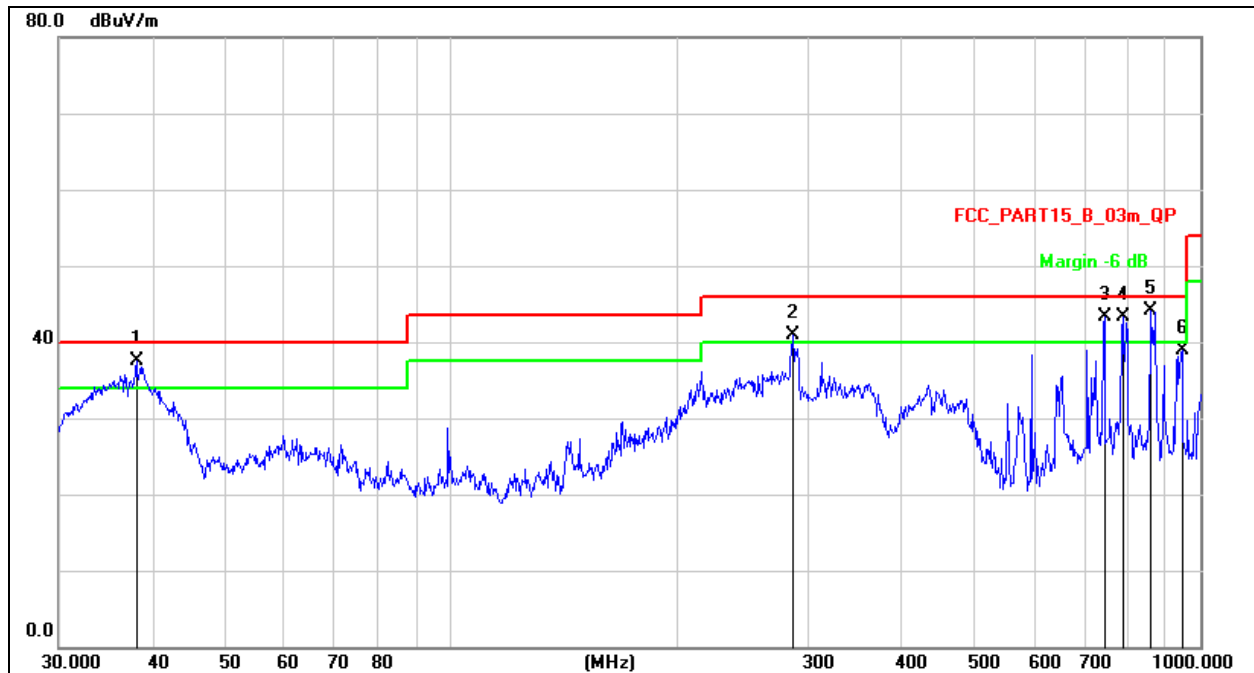


Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	!	285.9778	53.97	-13.53	40.44	46.00	-5.56	QP
2	!	744.8661	49.39	-5.06	44.33	46.00	-1.67	QP
3	!	798.9797	48.70	-4.41	44.29	46.00	-1.71	QP
4	*	860.0352	48.22	-3.81	44.41	46.00	-1.59	QP
5	!	893.8567	47.21	-3.23	43.98	46.00	-2.02	QP
6	!	942.1304	44.08	-2.97	41.11	46.00	-4.89	QP

Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4	Polarization:	Vertical



Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	!	38.0783	52.52	-15.09	37.43	40.00	-2.57	QP
2	!	285.9778	54.37	-13.53	40.84	46.00	-5.16	QP
3	!	744.8661	48.46	-5.06	43.40	46.00	-2.60	QP
4	!	787.8513	47.76	-4.54	43.22	46.00	-2.78	QP
5	*	860.0352	47.98	-3.81	44.17	46.00	-1.83	QP
6		945.4399	41.94	-2.96	38.98	46.00	-7.02	QP

☒ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge

All the modes has been tested and the worst result 802.11a recorded as below:

Test mode: 802.11a Frequency(MHz): 5180

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5149.50	H	64.03	74	45.87	54
5149.86	V	55.43	74	41.62	54

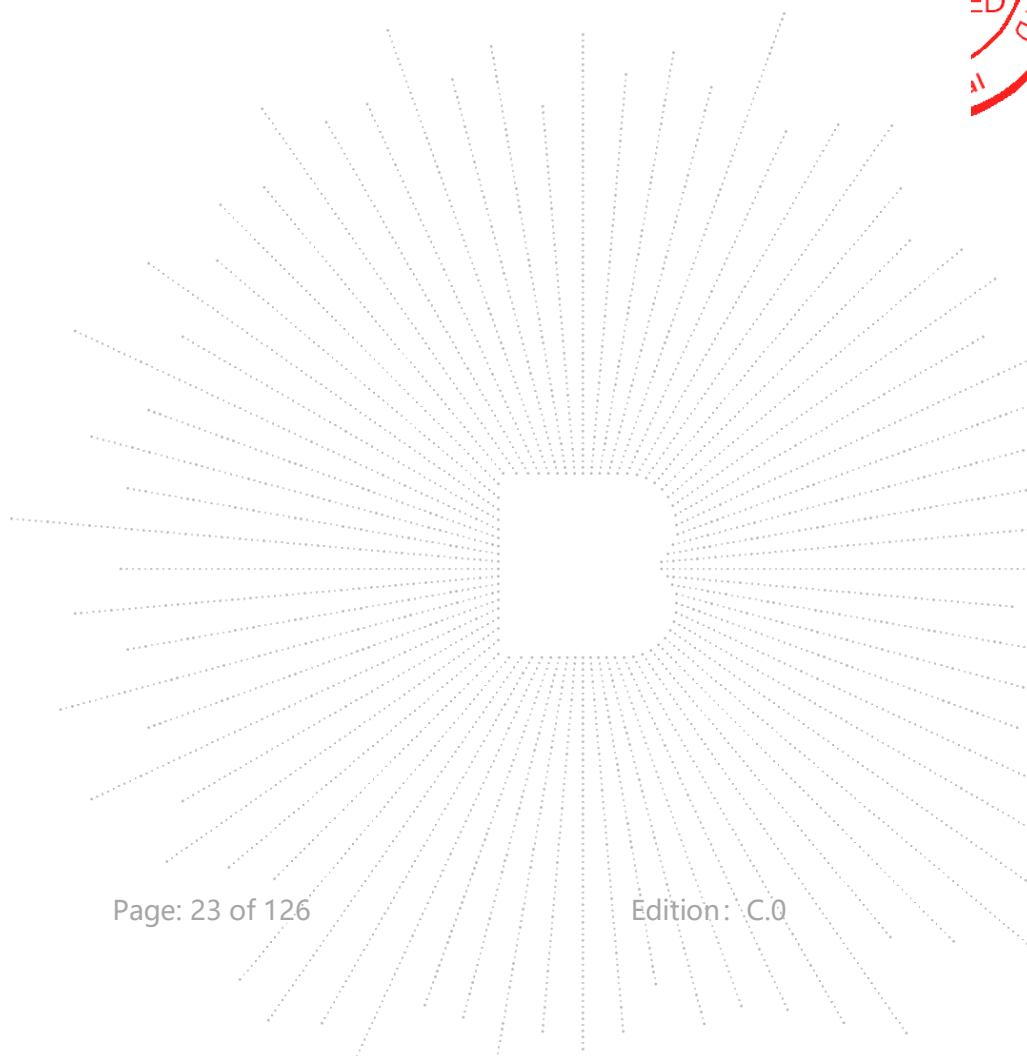
Test mode: 802.11a Frequency(MHz): 5240

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5300.83	H	45.64	74	34.64	54
5300.48	V	41.31	74	28.26	54

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor.

(3) Correct Factor= Ant_F + Cab_L - Preamp



Test Mode:	TX(5.1G) - 802.11a
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
V	4434.144	72.19	-20.73	51.46	68.20	-16.74	PK
V	4434.144	59.78	-20.73	39.05	54.00	-14.95	AV
V	10360.168	63.84	-9.36	54.48	68.20	-13.72	PK
V	10360.168	49.17	-9.36	39.81	54.00	-14.19	AV
V	15540.102	63.25	-7.84	55.41	74.00	-18.59	PK
V	15540.102	49.96	-7.84	42.12	54.00	-11.88	AV
H	4434.167	73.80	-20.73	53.07	68.20	-15.13	PK
H	4434.167	59.12	-20.73	38.39	54.00	-15.61	AV
H	10360.150	64.47	-9.36	55.11	68.20	-13.09	PK
H	10360.150	49.50	-9.36	40.14	54.00	-13.86	AV
H	15540.125	61.83	-7.84	53.99	74.00	-20.01	PK
H	15540.125	49.13	-7.84	41.29	54.00	-12.71	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.024	71.69	-20.42	51.27	74.00	-22.73	PK
V	4592.024	59.16	-20.42	38.74	54.00	-15.26	AV
V	10400.057	61.97	-9.30	52.67	68.20	-15.53	PK
V	10400.057	49.37	-9.30	40.07	54.00	-13.93	AV
V	15600.180	62.08	-7.82	54.26	74.00	-19.74	PK
V	15600.180	49.69	-7.82	41.87	54.00	-12.13	AV
H	4592.028	70.40	-20.42	49.98	74.00	-24.02	PK
H	4592.028	59.78	-20.42	39.36	54.00	-14.64	AV
H	10400.114	62.93	-9.30	53.63	68.20	-14.57	PK
H	10400.114	49.58	-9.30	40.28	54.00	-13.72	AV
H	15600.178	63.25	-7.82	55.43	74.00	-18.57	PK
H	15600.178	49.80	-7.82	41.98	54.00	-12.02	AV
High Channel (5240 MHz)-Above 1G							
V	4739.061	72.97	-20.12	52.85	74.00	-21.15	PK
V	4739.061	59.32	-20.12	39.20	54.00	-14.80	AV
V	10480.054	61.73	-9.18	52.55	68.20	-15.65	PK
V	10480.054	49.16	-9.18	39.98	54.00	-14.02	AV
V	15720.018	61.71	-7.78	53.93	74.00	-20.07	PK
V	15720.018	49.94	-7.78	42.16	54.00	-11.84	AV
H	4739.127	73.51	-20.12	53.39	74.00	-20.61	PK
H	4739.127	59.21	-20.12	39.09	54.00	-14.91	AV
H	10480.088	63.26	-9.18	54.08	68.20	-14.12	PK
H	10480.088	49.44	-9.18	40.26	54.00	-13.74	AV
H	15720.100	64.23	-7.78	56.45	74.00	-17.55	PK
H	15720.100	49.27	-7.78	41.49	54.00	-12.51	AV

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

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

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

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

Test Mode:	TX(5.1G) - 802.11n-HT20
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
V	4434.119	74.23	-20.73	53.50	68.20	-14.70	PK
V	4434.119	59.38	-20.73	38.65	54.00	-15.35	AV
V	10360.157	62.63	-9.36	53.27	68.20	-14.93	PK
V	10360.157	49.18	-9.36	39.82	54.00	-14.18	AV
V	15540.177	62.49	-7.84	54.65	74.00	-19.35	PK
V	15540.177	49.24	-7.84	41.40	54.00	-12.60	AV
H	4434.012	70.44	-20.73	49.71	68.20	-18.49	PK
H	4434.012	59.72	-20.73	38.99	54.00	-15.01	AV
H	10360.115	64.47	-9.36	55.11	68.20	-13.09	PK
H	10360.115	49.76	-9.36	40.40	54.00	-13.60	AV
H	15540.106	60.72	-7.84	52.88	74.00	-21.12	PK
H	15540.106	49.59	-7.84	41.75	54.00	-12.25	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.035	71.41	-20.42	50.99	74.00	-23.01	PK
V	4592.035	59.05	-20.42	38.64	54.00	-15.36	AV
V	10400.030	60.93	-9.30	51.63	68.20	-16.57	PK
V	10400.030	49.76	-9.30	40.46	54.00	-13.54	AV
V	15600.075	60.55	-7.82	52.73	74.00	-21.27	PK
V	15600.075	49.77	-7.82	41.95	54.00	-12.05	AV
H	4592.167	73.03	-20.42	52.61	74.00	-21.39	PK
H	4592.167	59.44	-20.42	39.03	54.00	-14.97	AV
H	10400.031	64.62	-9.30	55.32	68.20	-12.88	PK
H	10400.031	49.06	-9.30	39.76	54.00	-14.24	AV
H	15600.030	63.98	-7.82	56.16	74.00	-17.84	PK
H	15600.030	49.47	-7.82	41.65	54.00	-12.35	AV
High Channel (5240 MHz)-Above 1G							
V	4739.124	71.39	-20.12	51.26	74.00	-22.74	PK
V	4739.124	59.28	-20.12	39.15	54.00	-14.85	AV
V	10480.156	62.29	-9.18	53.11	68.20	-15.09	PK
V	10480.156	49.19	-9.18	40.01	54.00	-13.99	AV
V	15720.069	64.62	-7.78	56.84	74.00	-17.16	PK
V	15720.069	49.64	-7.78	41.86	54.00	-12.14	AV
H	4739.063	74.45	-20.12	54.33	74.00	-19.67	PK
H	4739.063	59.45	-20.12	39.33	54.00	-14.67	AV
H	10480.127	64.84	-9.18	55.66	68.20	-12.54	PK
H	10480.127	49.27	-9.18	40.09	54.00	-13.91	AV
H	15720.062	60.59	-7.78	52.81	74.00	-21.19	PK
H	15720.062	49.06	-7.78	41.28	54.00	-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-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
V	4434.011	71.18	-20.73	50.45	68.20	-17.75	PK
V	4434.011	59.16	-20.73	38.43	54.00	-15.57	AV
V	10380.103	60.18	-9.33	50.85	68.20	-17.35	PK
V	10380.103	49.77	-9.33	40.44	54.00	-13.56	AV
V	15570.048	60.55	-7.83	52.72	74.00	-21.28	PK
V	15570.048	49.67	-7.83	41.84	54.00	-12.16	AV
H	4434.131	74.01	-20.73	53.28	74.00	-20.72	PK
H	4434.131	59.87	-20.73	39.14	54.00	-14.86	AV
H	10380.010	61.71	-9.33	52.38	68.20	-15.82	PK
H	10380.010	49.49	-9.33	40.16	54.00	-13.84	AV
H	15570.151	62.82	-7.83	54.99	74.00	-19.01	PK
H	15570.151	49.46	-7.83	41.63	54.00	-12.37	AV
High Channel (5230 MHz)-Above 1G							
V	4739.141	73.84	-20.12	53.72	68.20	-14.48	PK
V	4739.141	59.50	-20.12	39.38	54.00	-14.62	AV
V	10460.189	62.54	-9.21	53.33	68.20	-14.87	PK
V	10460.189	49.68	-9.21	40.47	54.00	-13.53	AV
V	15690.020	60.33	-7.79	52.54	74.00	-21.46	PK
V	15690.020	49.88	-7.79	42.09	54.00	-11.91	AV
H	4739.121	72.08	-20.12	51.96	68.20	-16.24	PK
H	4739.121	59.55	-20.12	39.42	54.00	-14.58	AV
H	10460.110	60.42	-9.21	51.21	68.20	-16.99	PK
H	10460.110	49.46	-9.21	40.25	54.00	-13.75	AV
H	15690.165	64.89	-7.79	57.10	74.00	-16.90	PK
H	15690.165	49.00	-7.79	41.21	54.00	-12.79	AV

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

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

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

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

Test Mode:	TX(5.1G) - 802.11ac-HT20
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
V	4434.012	73.59	-20.73	52.85	68.20	-15.35	PK
V	4434.012	59.33	-20.73	38.60	54.00	-15.40	AV
V	10360.047	60.99	-9.36	51.63	68.20	-16.57	PK
V	10360.047	49.55	-9.36	40.19	54.00	-13.81	AV
V	15540.027	60.73	-7.84	52.89	74.00	-21.11	PK
V	15540.027	49.75	-7.84	41.91	54.00	-12.09	AV
H	4434.032	72.54	-20.73	51.81	68.20	-16.39	PK
H	4434.032	59.80	-20.73	39.07	54.00	-14.93	AV
H	10360.111	61.60	-9.36	52.24	68.20	-15.96	PK
H	10360.111	49.08	-9.36	39.72	54.00	-14.28	AV
H	15540.006	63.42	-7.84	55.58	74.00	-18.42	PK
H	15540.006	49.58	-7.84	41.74	54.00	-12.26	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.039	70.82	-20.42	50.41	74.00	-23.59	PK
V	4592.039	59.71	-20.42	39.29	54.00	-14.71	AV
V	10400.002	64.87	-9.30	55.57	68.20	-12.63	PK
V	10400.002	49.98	-9.30	40.68	54.00	-13.32	AV
V	15600.022	63.41	-7.82	55.59	74.00	-18.41	PK
V	15600.022	49.85	-7.82	42.03	54.00	-11.97	AV
H	4592.184	71.20	-20.42	50.79	74.00	-23.21	PK
H	4592.184	59.20	-20.42	38.78	54.00	-15.22	AV
H	10400.167	61.57	-9.30	52.27	68.20	-15.93	PK
H	10400.167	49.98	-9.30	40.68	54.00	-13.32	AV
H	15600.120	62.99	-7.82	55.17	74.00	-18.83	PK
H	15600.120	49.94	-7.82	42.12	54.00	-11.88	AV
High Channel (5240 MHz)-Above 1G							
V	4739.034	71.88	-20.12	51.76	74.00	-22.24	PK
V	4739.034	59.36	-20.12	39.24	54.00	-14.76	AV
V	10480.133	64.35	-9.18	55.17	68.20	-13.03	PK
V	10480.133	49.41	-9.18	40.23	54.00	-13.77	AV
V	15720.076	61.81	-7.78	54.03	74.00	-19.97	PK
V	15720.076	49.12	-7.78	41.34	54.00	-12.66	AV
H	4739.046	70.18	-20.12	50.06	74.00	-23.94	PK
H	4739.046	59.72	-20.12	39.60	54.00	-14.40	AV
H	10480.022	61.26	-9.18	52.08	68.20	-16.12	PK
H	10480.022	49.72	-9.18	40.54	54.00	-13.46	AV
H	15720.092	64.97	-7.78	57.19	74.00	-16.81	PK
H	15720.092	49.45	-7.78	41.67	54.00	-12.33	AV

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

Test Mode:	TX(5.1G) - 802.11ac-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
V	4434.048	73.98	-20.73	53.25	68.20	-14.95	PK
V	4434.048	59.74	-20.73	39.01	54.00	-14.99	AV
V	10380.189	63.87	-9.33	54.54	68.20	-13.66	PK
V	10380.189	49.34	-9.33	40.01	54.00	-13.99	AV
V	15570.080	60.20	-7.83	52.37	74.00	-21.63	PK
V	15570.080	49.31	-7.83	41.48	54.00	-12.52	AV
H	4434.025	71.18	-20.73	50.45	74.00	-23.55	PK
H	4434.025	59.52	-20.73	38.79	54.00	-15.21	AV
H	10380.094	64.71	-9.33	55.38	68.20	-12.82	PK
H	10380.094	49.46	-9.33	40.13	54.00	-13.87	AV
H	15570.020	64.75	-7.83	56.92	74.00	-17.08	PK
H	15570.020	49.39	-7.83	41.56	54.00	-12.44	AV
High Channel (5230 MHz)-Above 1G							
V	4739.163	71.84	-20.12	51.72	68.20	-16.48	PK
V	4739.163	59.07	-20.12	38.95	54.00	-15.05	AV
V	10460.109	60.23	-9.21	51.02	68.20	-17.18	PK
V	10460.109	49.13	-9.21	39.92	54.00	-14.08	AV
V	15690.168	63.89	-7.79	56.10	74.00	-17.90	PK
V	15690.168	49.65	-7.79	41.86	54.00	-12.14	AV
H	4739.069	70.72	-20.12	50.60	68.20	-17.60	PK
H	4739.069	59.62	-20.12	39.50	54.00	-14.50	AV
H	10460.119	62.05	-9.21	52.84	68.20	-15.36	PK
H	10460.119	49.24	-9.21	40.03	54.00	-13.97	AV
H	15690.062	60.47	-7.79	52.68	74.00	-21.32	PK
H	15690.062	49.47	-7.79	41.68	54.00	-12.32	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)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5210 MHz)-Above 1G							
V	4434.057	72.68	-20.73	51.94	68.20	-16.26	PK
V	4434.057	59.46	-20.73	38.73	54.00	-15.27	AV
V	10420.195	61.52	-9.27	52.25	68.20	-15.95	PK
V	10420.195	49.91	-9.27	40.64	54.00	-13.36	AV
V	15630.084	60.93	-7.81	53.12	74.00	-20.88	PK
V	15630.084	49.54	-7.81	41.73	54.00	-12.27	AV
H	4434.066	70.30	-20.73	49.57	68.20	-18.63	PK
H	4434.066	59.22	-20.73	38.49	54.00	-15.51	AV
H	10420.047	42.16	9.27	51.43	68.20	-16.77	PK
H	10420.047	29.50	9.27	38.77	54.00	-15.23	AV
H	15630.010	61.62	-7.81	53.81	74.00	-20.19	PK
H	15630.010	49.33	-7.81	41.52	54.00	-12.48	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)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G							
V	4679.136	70.71	-20.24	50.47	74.00	-23.53	PK
V	4679.136	59.56	-20.24	39.32	54.00	-14.68	AV
V	11490.038	61.56	-8.79	52.77	68.20	-15.43	PK
V	11490.038	49.89	-8.79	41.10	54.00	-12.90	AV
V	17235.126	56.07	-3.18	52.89	68.20	-15.31	PK
V	17235.126	44.15	-3.18	40.97	54.00	-13.03	AV
H	4679.012	74.88	-20.73	54.15	74.00	-19.85	PK
H	4679.012	59.18	-20.73	38.45	54.00	-15.55	AV
H	11490.043	61.19	-8.79	52.40	68.20	-15.80	PK
H	11490.043	49.11	-8.79	40.32	54.00	-13.68	AV
H	17235.086	55.56	-3.18	52.38	68.20	-15.82	PK
H	17235.086	44.37	-3.18	41.19	54.00	-12.81	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.140	70.87	-20.42	50.45	74.00	-23.55	PK
V	4592.140	59.42	-20.42	39.00	54.00	-15.00	AV
V	11570.153	61.17	-8.86	52.31	68.20	-15.89	PK
V	11570.153	49.13	-8.86	40.27	54.00	-13.73	AV
V	17355.022	59.14	-2.52	56.62	68.20	-11.58	PK
V	17355.022	44.43	-2.52	41.91	54.00	-12.09	AV
H	4592.076	71.81	-20.42	51.39	74.00	-22.61	PK
H	4592.076	59.73	-20.42	39.32	54.00	-14.68	AV
H	11570.045	63.58	-8.86	54.72	68.20	-13.48	PK
H	11570.045	49.87	-8.86	41.01	54.00	-12.99	AV
H	17355.006	59.30	-2.52	56.78	68.20	-11.42	PK
H	17355.006	44.75	-2.52	42.23	54.00	-11.77	AV
High Channel (5825 MHz)-Above 1G							
V	6039.187	74.70	-18.93	55.77	68.20	-12.43	PK
V	6039.187	59.61	-18.93	40.68	54.00	-13.32	AV
V	11650.012	62.32	-8.92	53.40	74.00	-20.60	PK
V	11650.012	49.97	-8.92	41.05	54.00	-12.95	AV
V	17475.121	55.01	-1.86	53.15	68.20	-15.05	PK
V	17475.121	44.29	-1.86	42.43	54.00	-11.57	AV
H	6039.091	73.13	-18.93	54.20	68.20	-14.00	PK
H	6039.091	59.71	-18.93	40.78	54.00	-13.22	AV
H	11650.193	64.87	-8.92	55.95	74.00	-18.05	PK
H	11650.193	49.98	-8.92	41.06	54.00	-12.94	AV
H	17475.168	57.06	-1.86	55.20	68.20	-13.00	PK
H	17475.168	44.75	-1.86	42.89	54.00	-11.11	AV

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

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

Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G							
V	4679.184	73.39	-20.24	53.15	74.00	-20.85	PK
V	4679.184	59.94	-20.24	39.70	54.00	-14.30	AV
V	11490.003	63.93	-8.79	55.14	68.20	-13.06	PK
V	11490.003	49.48	-8.79	40.69	54.00	-13.31	AV
V	17235.017	59.14	-3.18	55.96	68.20	-12.24	PK
V	17235.017	44.64	-3.18	41.46	54.00	-12.54	AV
H	4679.156	73.83	-20.24	53.59	74.00	-20.41	PK
H	4679.156	59.88	-20.24	39.63	54.00	-14.37	AV
H	11490.140	60.46	-8.79	51.67	68.20	-16.53	PK
H	11490.140	49.01	-8.79	40.22	54.00	-13.78	AV
H	17235.034	55.88	-3.18	52.70	68.20	-15.50	PK
H	17235.034	44.06	-3.18	40.88	54.00	-13.12	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.095	74.37	-20.42	53.96	74.00	-20.04	PK
V	4592.095	59.24	-20.42	38.82	54.00	-15.18	AV
V	11570.112	62.93	-8.86	54.07	68.20	-14.13	PK
V	11570.112	49.00	-8.86	40.14	54.00	-13.86	AV
V	17355.102	55.97	-2.52	53.45	68.20	-14.75	PK
V	17355.102	44.04	-2.52	41.52	54.00	-12.48	AV
H	4592.196	70.89	-20.42	50.48	74.00	-23.52	PK
H	4592.196	59.03	-20.42	38.61	54.00	-15.39	AV
H	11570.004	62.94	-8.86	54.08	68.20	-14.12	PK
H	11570.004	49.23	-8.86	40.37	54.00	-13.63	AV
H	17355.158	58.38	-2.52	55.86	68.20	-12.34	PK
H	17355.158	45.00	-2.52	42.48	54.00	-11.52	AV
High Channel (5825 MHz)-Above 1G							
V	6039.172	74.57	-18.93	55.64	68.20	-12.56	PK
V	6039.172	59.56	-18.93	40.63	54.00	-13.37	AV
V	11650.142	64.81	-8.92	55.89	74.00	-18.11	PK
V	11650.142	49.87	-8.92	40.95	54.00	-13.05	AV
V	17475.134	56.48	-1.86	54.62	68.20	-13.58	PK
V	17475.134	44.51	-1.86	42.65	54.00	-11.35	AV
H	6039.199	72.70	-18.93	53.77	68.20	-14.43	PK
H	6039.199	59.36	-18.93	40.43	54.00	-13.57	AV
H	11650.013	64.11	-8.92	55.19	74.00	-18.81	PK
H	11650.013	49.13	-8.92	40.21	54.00	-13.79	AV
H	17475.131	58.66	-1.86	56.80	68.20	-11.40	PK
H	17475.131	44.00	-1.86	42.14	54.00	-11.86	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(5.8G) - 802.11n-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
V	4679.032	74.59	-20.24	54.35	74.00	-19.65	PK
V	4679.032	59.86	-20.24	39.62	54.00	-14.38	AV
V	11510.075	63.19	-8.81	54.38	74.00	-19.62	PK
V	11510.075	49.71	-8.81	40.90	54.00	-13.10	AV
V	17265.108	58.89	-3.01	55.88	68.20	-12.32	PK
V	17265.108	44.10	-3.01	41.09	54.00	-12.91	AV
H	4679.005	70.33	-20.24	50.09	74.00	-23.91	PK
H	4679.005	59.19	-20.24	38.95	54.00	-15.05	AV
H	11510.048	63.89	-8.81	55.08	74.00	-18.92	PK
H	11510.048	49.94	-8.81	41.13	54.00	-12.87	AV
H	17265.167	55.80	-3.01	52.79	68.20	-15.41	PK
H	17265.167	44.05	-3.01	41.04	54.00	-12.96	AV
High Channel (5795 MHz)-Above 1G							
V	6039.038	70.92	-18.93	51.99	68.20	-16.21	PK
V	6039.038	59.71	-18.93	40.78	54.00	-13.22	AV
V	11590.085	63.14	-8.87	54.27	74.00	-19.73	PK
V	11590.085	49.34	-8.87	40.47	54.00	-13.53	AV
V	17385.197	58.23	-2.35	55.88	68.20	-12.32	PK
V	17385.197	44.34	-2.35	41.99	54.00	-12.01	AV
H	6039.107	72.66	-18.93	53.72	68.20	-14.48	PK
H	6039.107	59.85	-18.93	40.91	54.00	-13.09	AV
H	11590.012	64.70	-8.87	55.83	74.00	-18.17	PK
H	11590.012	49.91	-8.87	41.04	54.00	-12.96	AV
H	17385.063	58.03	-2.35	55.68	68.20	-12.52	PK
H	17385.063	44.81	-2.35	42.46	54.00	-11.54	AV

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

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

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

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

Test Mode:	TX(5.8G) - 802.11ac-HT20
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
V	4679.035	70.67	-20.24	50.42	74.00	-23.58	PK
V	4679.035	59.07	-20.24	38.82	54.00	-15.18	AV
V	11490.042	62.48	-8.79	53.69	68.20	-14.51	PK
V	11490.042	49.33	-8.79	40.54	54.00	-13.46	AV
V	17235.099	59.61	-3.18	56.43	68.20	-11.77	PK
V	17235.099	44.65	-3.18	41.47	54.00	-12.53	AV
H	4679.109	70.32	-20.24	50.08	74.00	-23.92	PK
H	4679.109	59.99	-20.24	39.75	54.00	-14.25	AV
H	11490.141	62.94	-8.79	54.15	68.20	-14.05	PK
H	11490.141	49.41	-8.79	40.62	54.00	-13.38	AV
H	17235.198	57.23	-3.18	54.05	68.20	-14.15	PK
H	17235.198	44.03	-3.18	40.85	54.00	-13.15	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.038	71.84	-20.42	51.42	74.00	-22.58	PK
V	4592.038	59.40	-20.42	38.99	54.00	-15.01	AV
V	11570.030	61.66	-8.86	52.80	68.20	-15.40	PK
V	11570.030	49.94	-8.86	41.08	54.00	-12.92	AV
V	17355.071	59.61	-2.52	57.09	68.20	-11.11	PK
V	17355.071	44.49	-2.52	41.97	54.00	-12.03	AV
H	4592.194	70.90	-20.42	50.49	74.00	-23.51	PK
H	4592.194	59.86	-20.42	39.45	54.00	-14.55	AV
H	11570.056	61.56	-8.86	52.70	68.20	-15.50	PK
H	11570.056	49.08	-8.86	40.22	54.00	-13.78	AV
H	17355.161	57.03	-2.52	54.51	68.20	-13.69	PK
H	17355.161	44.38	-2.52	41.86	54.00	-12.14	AV
High Channel (5825 MHz)-Above 1G							
V	6039.127	73.28	-18.93	54.35	68.20	-13.85	PK
V	6039.127	59.01	-18.93	40.08	54.00	-13.92	AV
V	11650.093	64.14	-8.92	55.22	74.00	-18.78	PK
V	11650.093	49.63	-8.92	40.71	54.00	-13.29	AV
V	17475.025	57.79	-1.86	55.93	68.20	-12.27	PK
V	17475.025	44.78	-1.86	42.92	54.00	-11.08	AV
H	6039.120	70.54	-18.93	51.61	68.20	-16.59	PK
H	6039.120	59.62	-18.93	40.68	54.00	-13.32	AV
H	11650.164	64.36	-8.92	55.44	74.00	-18.56	PK
H	11650.164	49.86	-8.92	40.94	54.00	-13.06	AV
H	17475.074	55.70	-1.86	53.84	68.20	-14.36	PK
H	17475.074	44.41	-1.86	42.55	54.00	-11.45	AV

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

Test Mode:	TX(5.8G) - 802.11ac-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
V	4679.125	74.09	-20.24	53.85	74.00	-20.15	PK
V	4679.125	59.89	-20.24	39.65	54.00	-14.35	AV
V	11510.138	62.27	-8.81	53.46	74.00	-20.54	PK
V	11510.138	49.82	-8.81	41.01	54.00	-12.99	AV
V	17265.063	57.15	-3.01	54.14	68.20	-14.06	PK
V	17265.063	44.90	-3.01	41.89	54.00	-12.11	AV
H	4679.197	70.43	-20.24	50.19	74.00	-23.81	PK
H	4679.197	59.73	-20.24	39.49	54.00	-14.51	AV
H	11510.128	62.71	-8.81	53.90	74.00	-20.10	PK
H	11510.128	49.71	-8.81	40.90	54.00	-13.10	AV
H	17265.041	56.48	-3.01	53.47	68.20	-14.73	PK
H	17265.041	44.63	-3.01	41.62	54.00	-12.38	AV
High Channel (5795 MHz)-Above 1G							
V	6039.193	72.35	-18.93	53.42	68.20	-14.78	PK
V	6039.193	59.65	-18.93	40.72	54.00	-13.28	AV
V	11590.069	61.92	-8.87	53.05	74.00	-20.95	PK
V	11590.069	49.01	-8.87	40.14	54.00	-13.86	AV
V	17385.189	59.87	-2.35	57.52	68.20	-10.68	PK
V	17385.189	44.04	-2.35	41.69	54.00	-12.31	AV
H	6039.182	73.68	-18.93	54.75	68.20	-13.45	PK
H	6039.182	59.67	-18.93	40.74	54.00	-13.26	AV
H	11590.001	60.64	-8.87	51.77	74.00	-22.23	PK
H	11590.001	49.41	-8.87	40.54	54.00	-13.46	AV
H	17385.061	55.94	-2.35	53.59	68.20	-14.61	PK
H	17385.061	44.83	-2.35	42.48	54.00	-11.52	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.

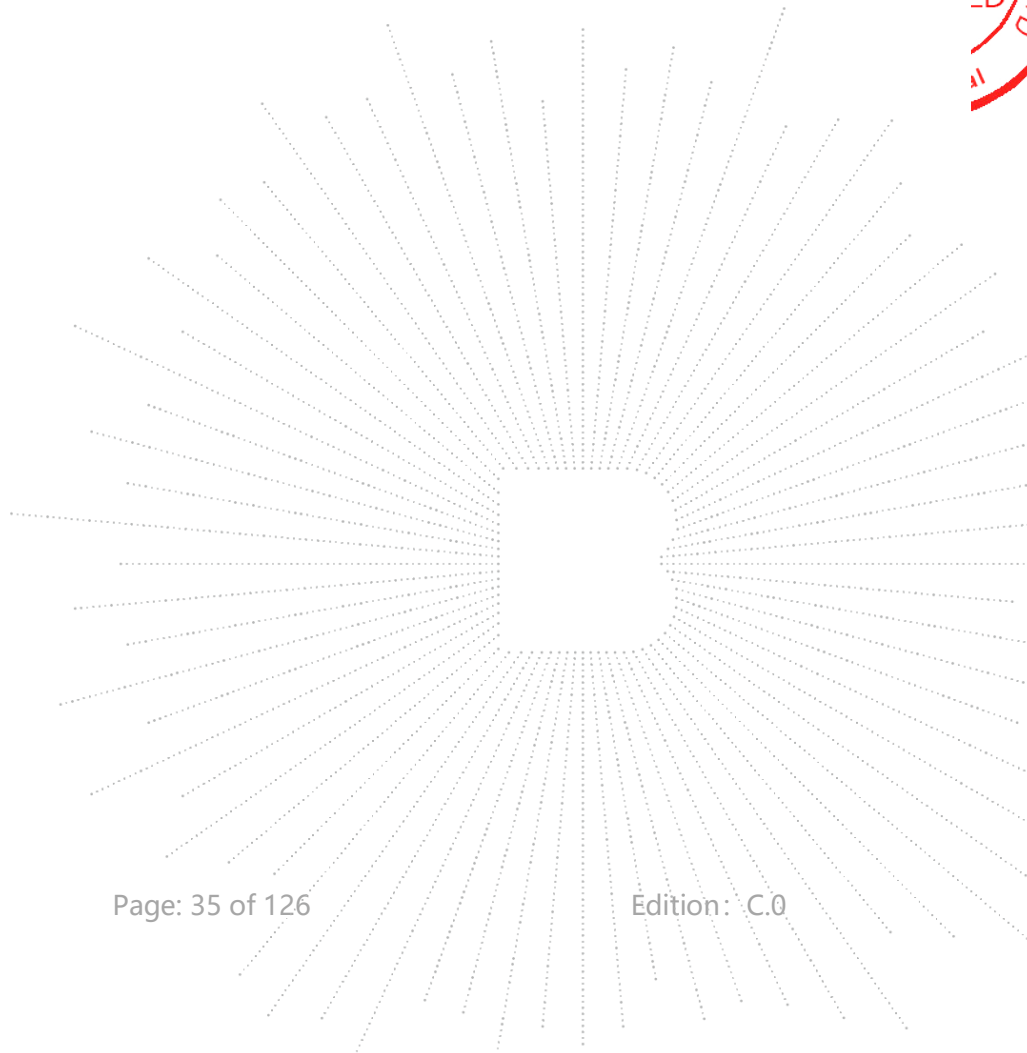
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Test Mode:	TX(5.8G) - 802.11ac-HT80
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5775 MHz)-Above 1G							
V	4679.049	70.05	-20.24	49.81	74.00	-24.19	PK
V	4679.049	59.85	-20.24	39.61	54.00	-14.39	AV
V	11550.149	62.16	-8.84	53.32	74.00	-20.68	PK
V	11550.149	49.02	-8.84	40.18	54.00	-13.82	AV
V	17325.012	56.63	-2.68	53.95	68.20	-14.25	PK
V	17325.012	44.11	-2.68	41.43	54.00	-12.57	AV
H	4679.033	73.91	-20.24	53.67	74.00	-20.33	PK
H	4679.033	59.83	-20.24	39.59	54.00	-14.41	AV
H	11550.086	61.68	-8.84	52.84	74.00	-21.16	PK
H	11550.086	49.23	-8.84	40.39	54.00	-13.61	AV
H	17325.103	55.52	-2.68	52.84	68.20	-15.36	PK
H	17325.103	44.87	-2.68	42.19	54.00	-11.81	AV

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



8. Power Spectral Density Test

8.1 Block Diagram Of Test Setup



8.2 Limit

For the band 5.15-5.25 GHz,

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

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

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

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

For the band 5.725-5.85 GHz

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

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8.3 Test procedure

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

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

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

8.4 EUT operating Conditions

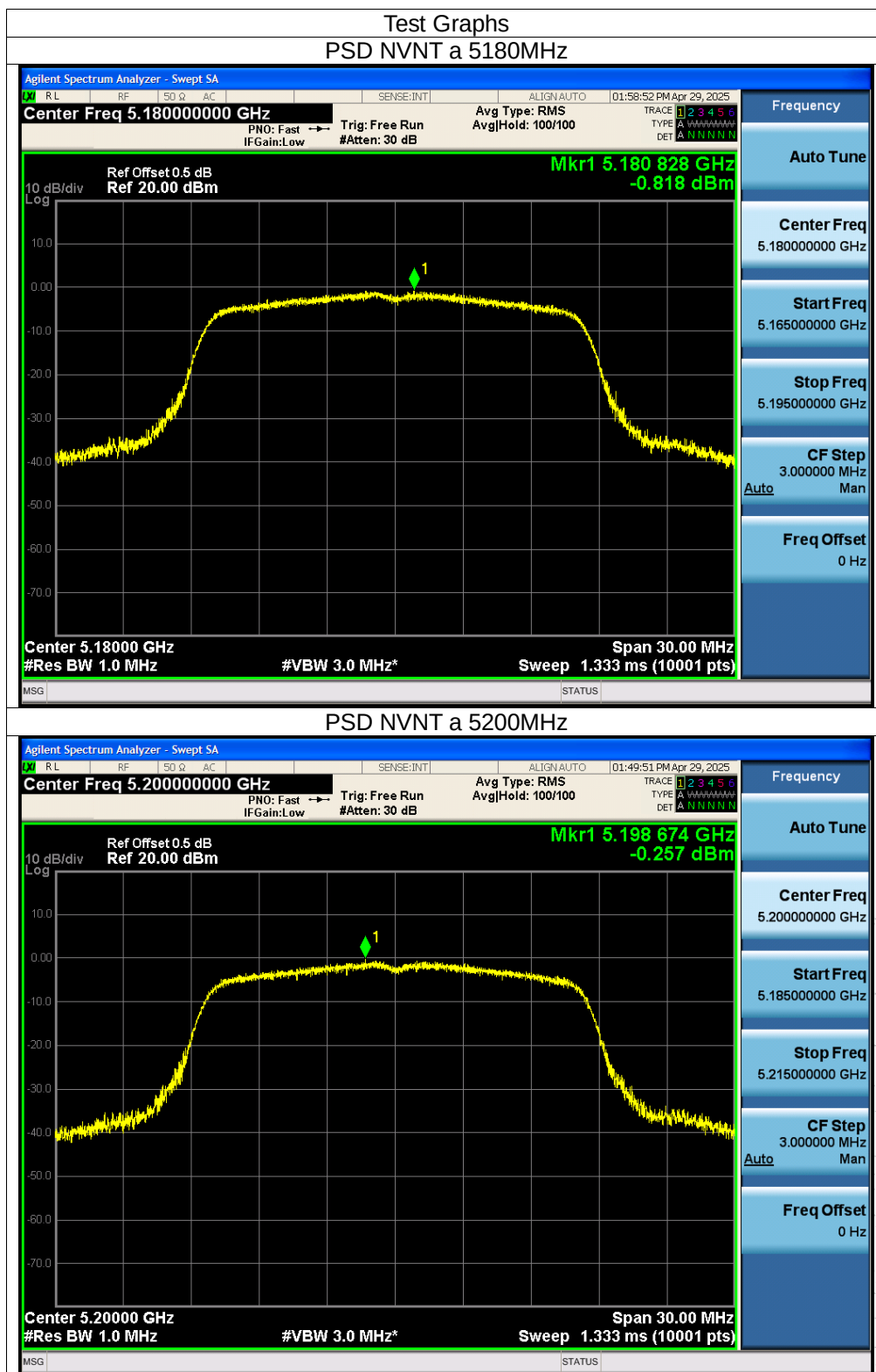
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

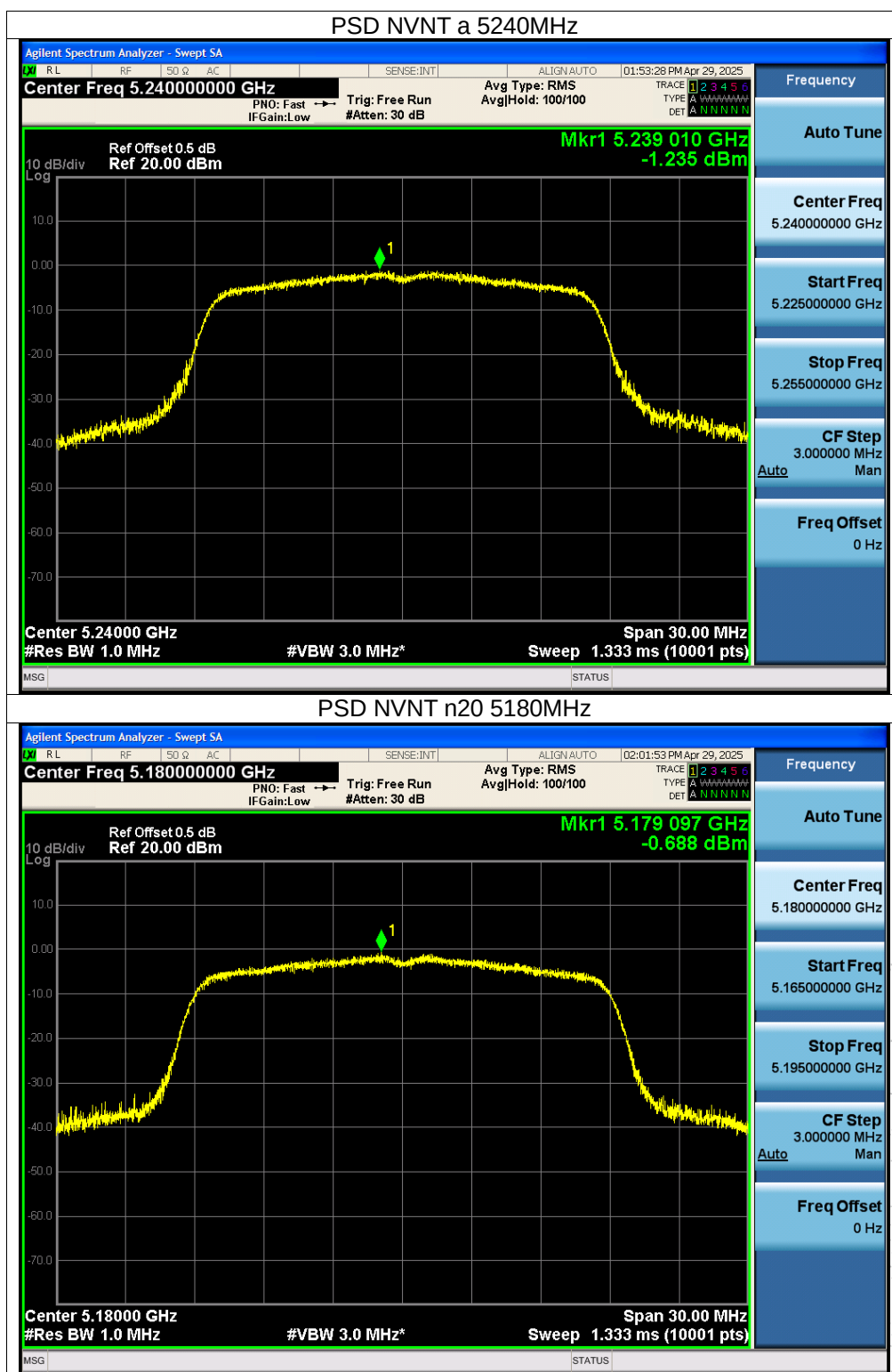
8.5 Test Result

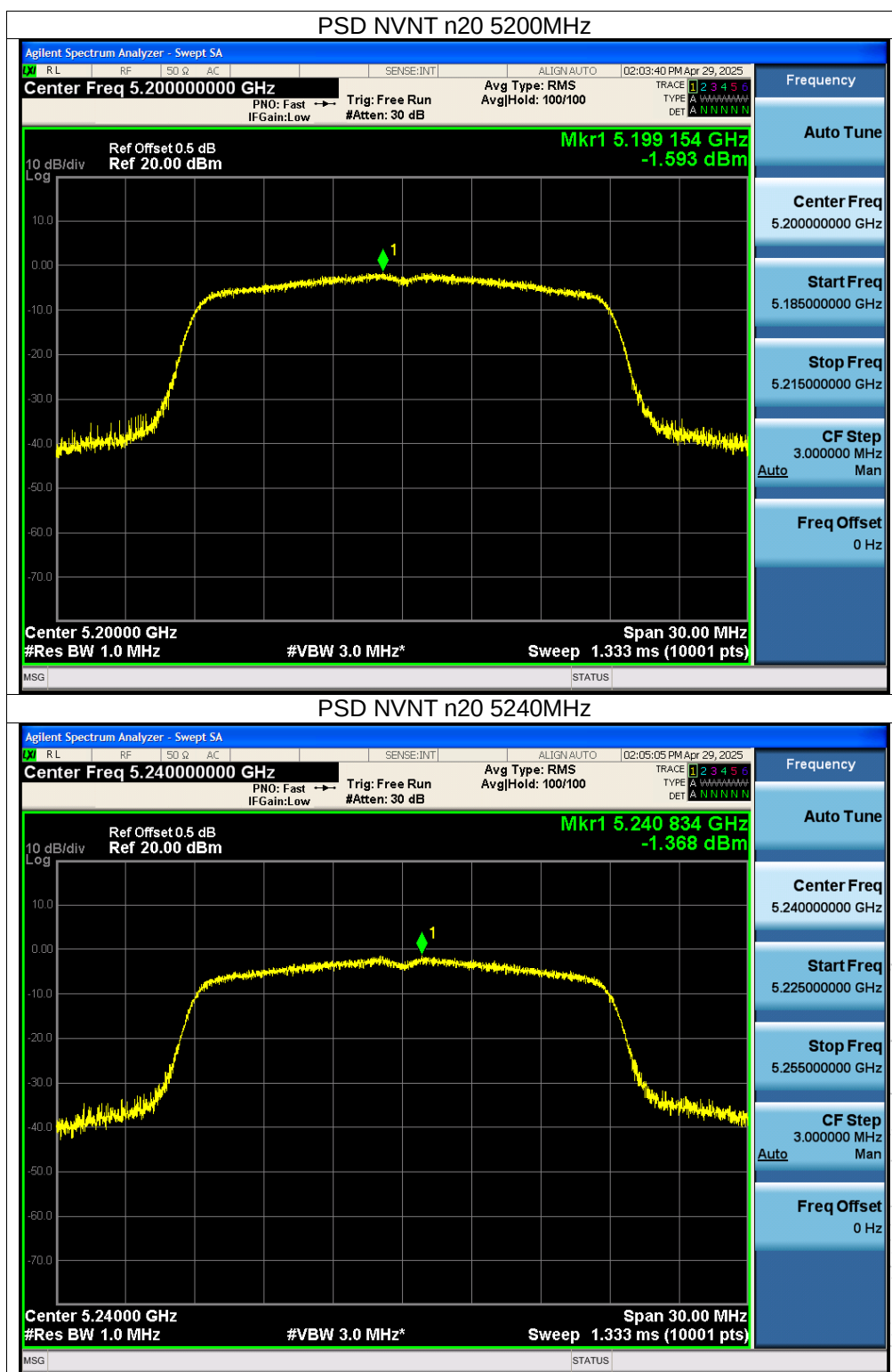
Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 12.8V
Test Mode:	(5180-5240MHz); (5745-5825MHz)		

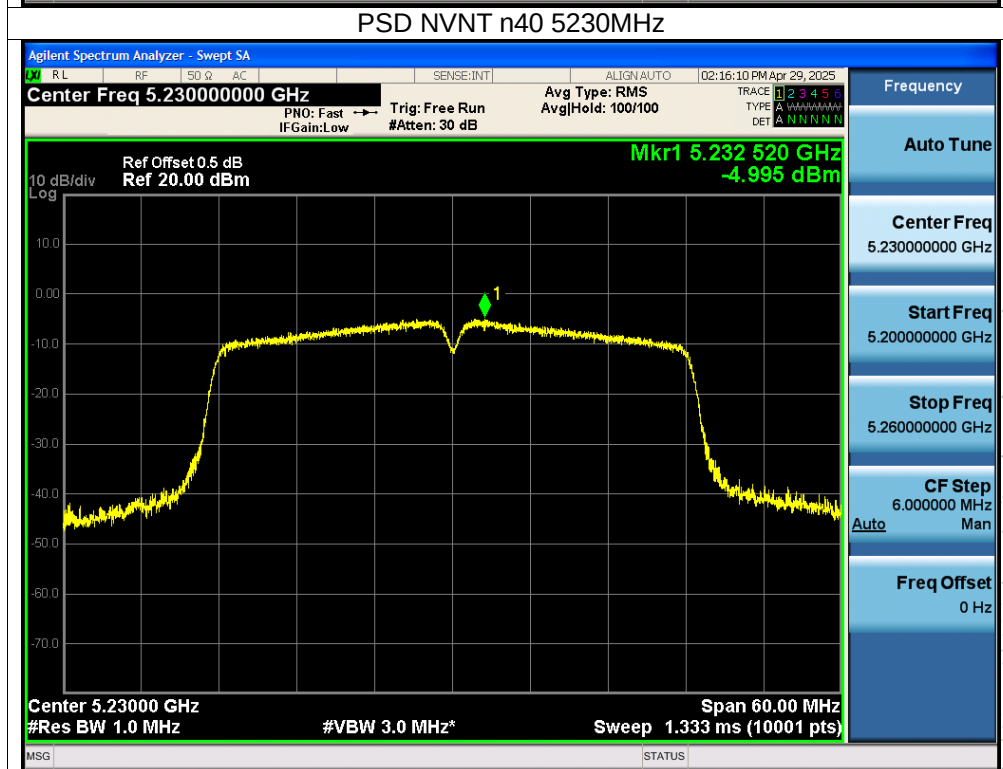
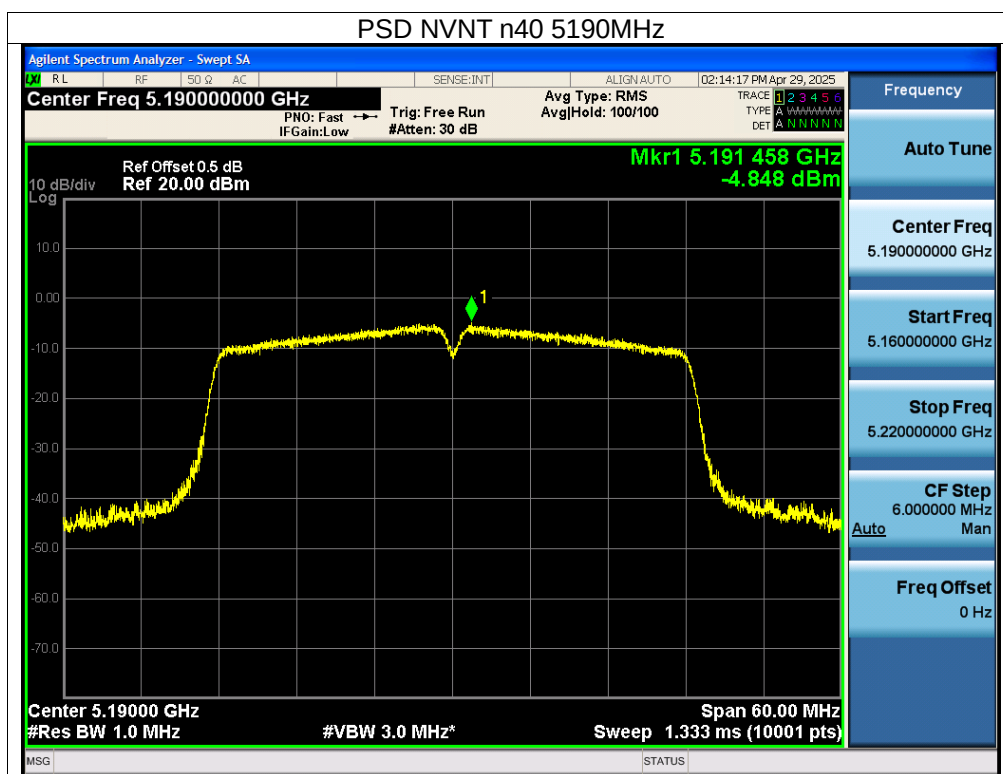
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	-0.82	11	Pass
NVNT	a	5200	-0.26	11	Pass
NVNT	a	5240	-1.24	11	Pass
NVNT	n20	5180	-0.69	11	Pass
NVNT	n20	5200	-1.59	11	Pass
NVNT	n20	5240	-1.37	11	Pass
NVNT	n40	5190	-4.85	11	Pass
NVNT	n40	5230	-5.00	11	Pass
NVNT	ac20	5180	-2.24	11	Pass
NVNT	ac20	5200	-2.59	11	Pass
NVNT	ac20	5240	-0.88	11	Pass
NVNT	ac40	5190	-5.19	11	Pass
NVNT	ac40	5230	-6.15	11	Pass
NVNT	ac80	5210	-9.42	11	Pass

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	-3.76	30	Pass
NVNT	a	5785	-4.19	30	Pass
NVNT	a	5825	-3.97	30	Pass
NVNT	n20	5745	-5.08	30	Pass
NVNT	n20	5785	-5.24	30	Pass
NVNT	n20	5825	-5.46	30	Pass
NVNT	n40	5755	-9.50	30	Pass
NVNT	n40	5795	-9.53	30	Pass
NVNT	ac20	5745	-5.17	30	Pass
NVNT	ac20	5785	-5.02	30	Pass
NVNT	ac20	5825	-5.20	30	Pass
NVNT	ac40	5755	-9.47	30	Pass
NVNT	ac40	5795	-9.57	30	Pass
NVNT	ac80	5775	-14.94	30	Pass

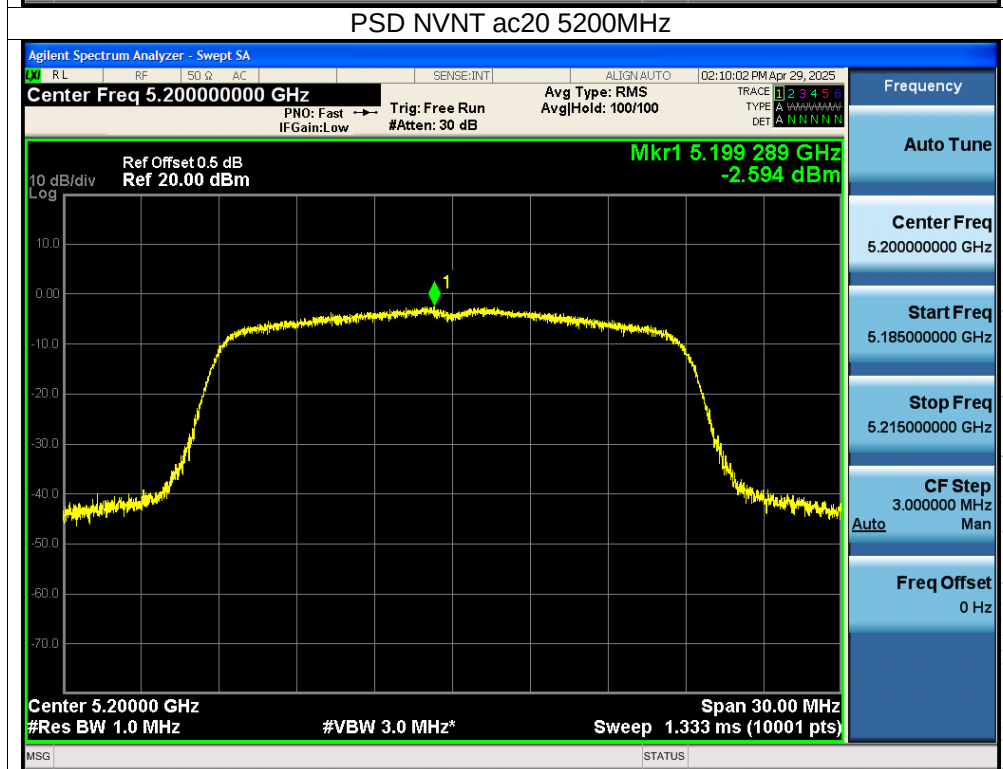
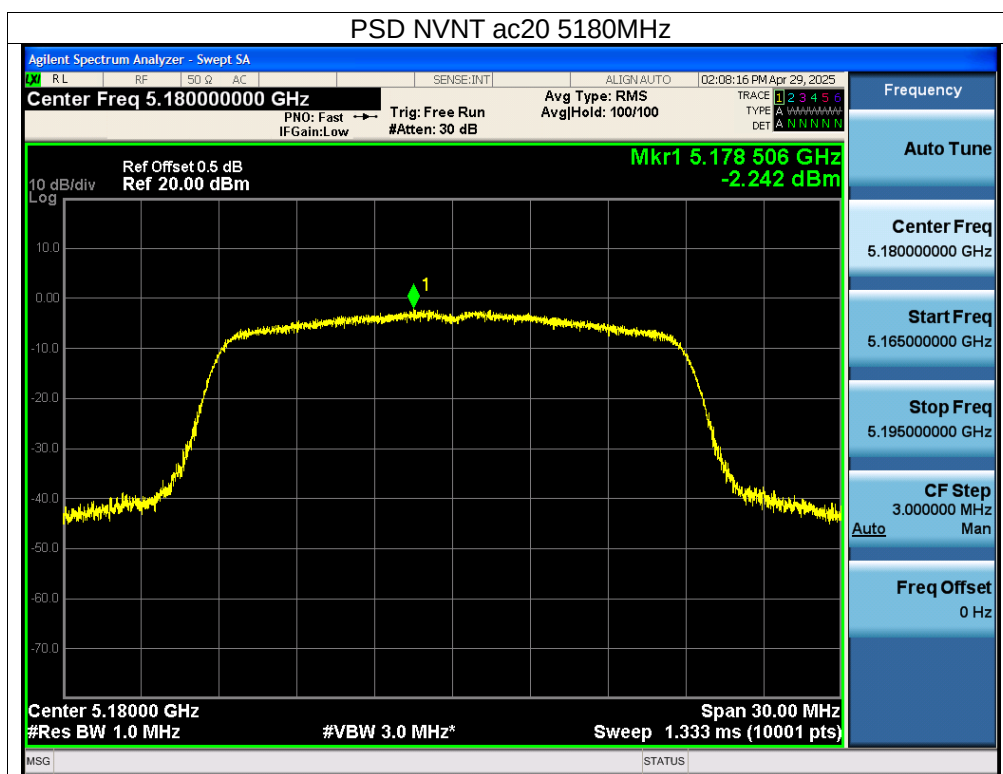


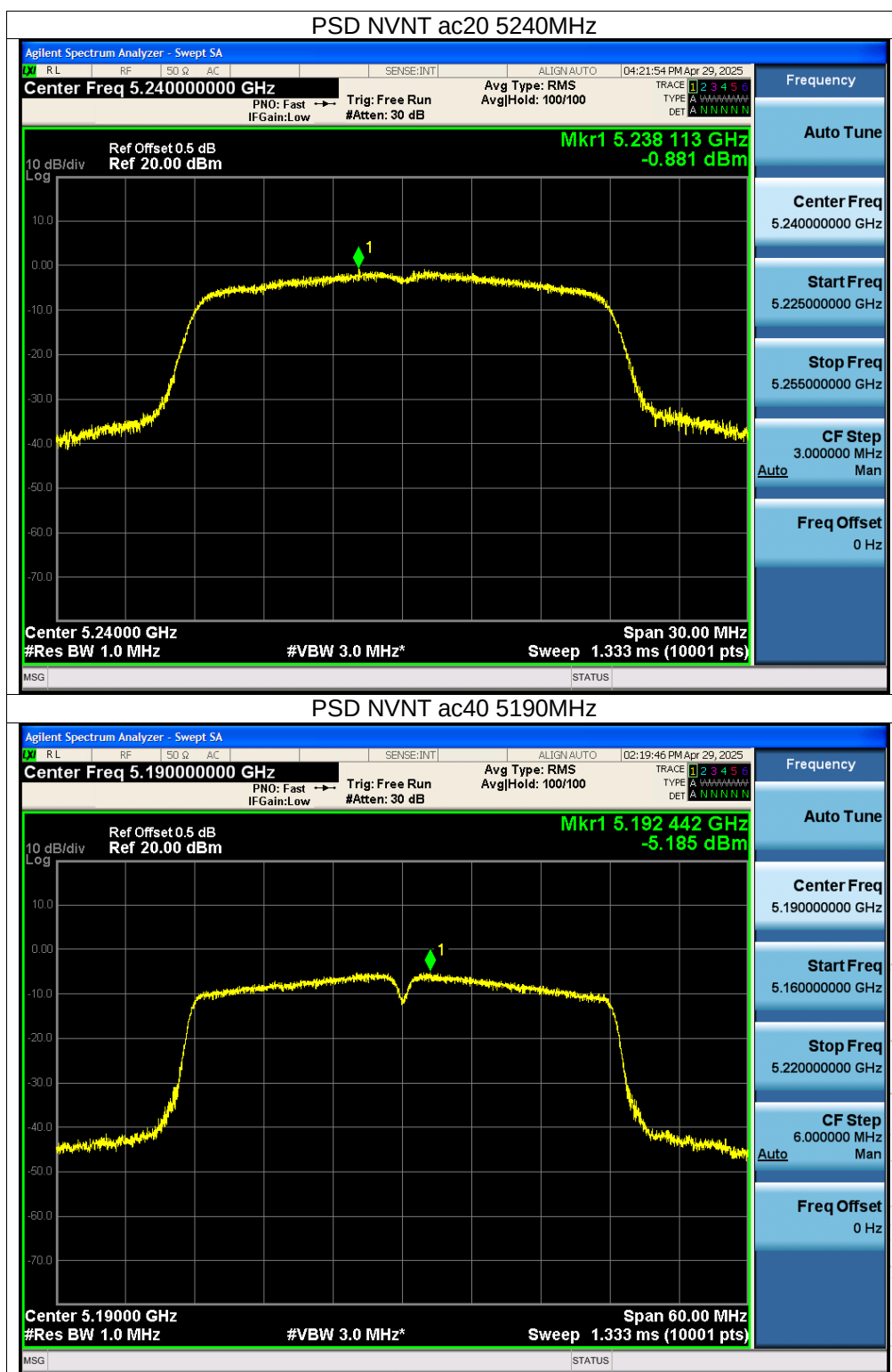


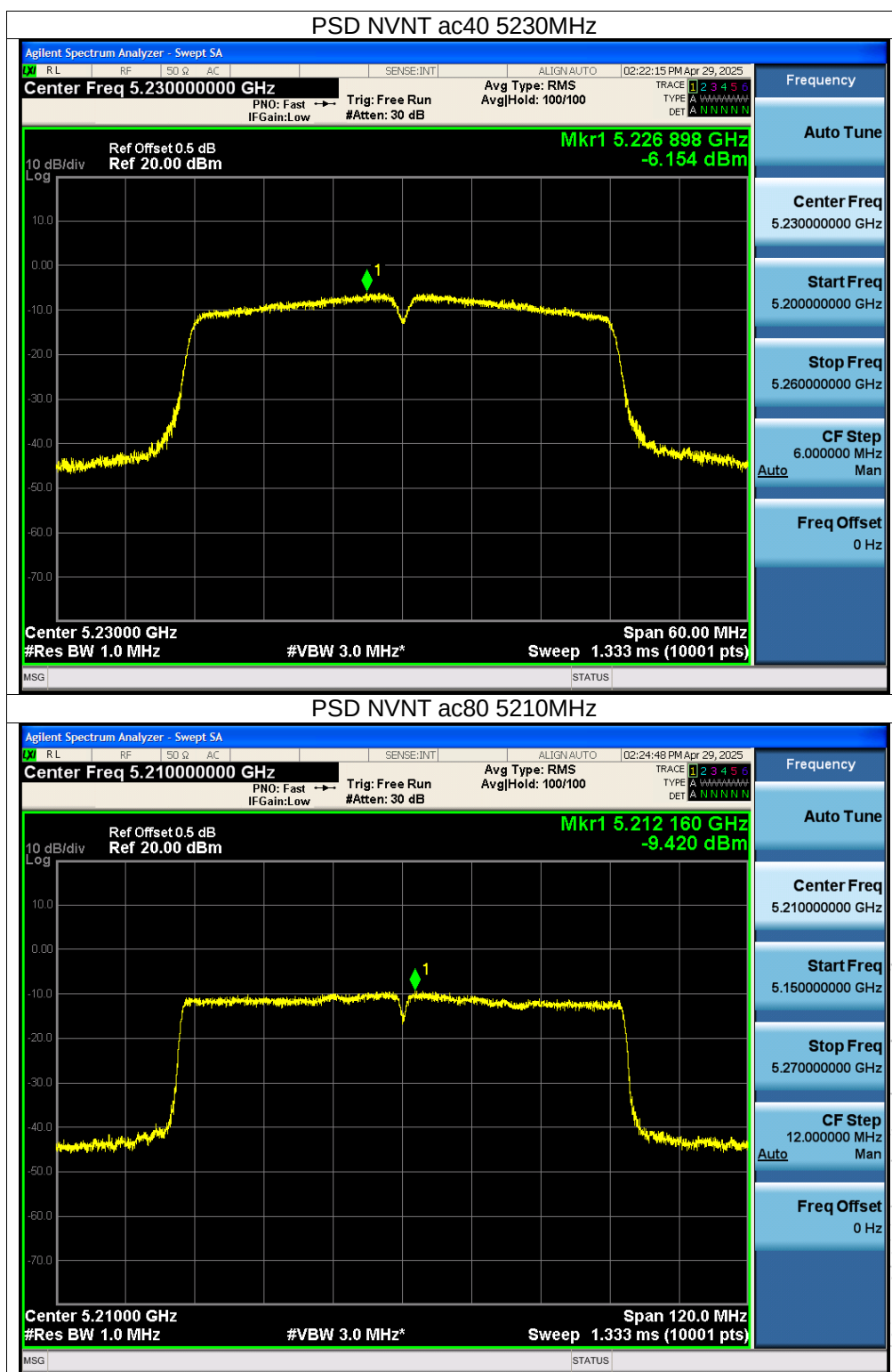


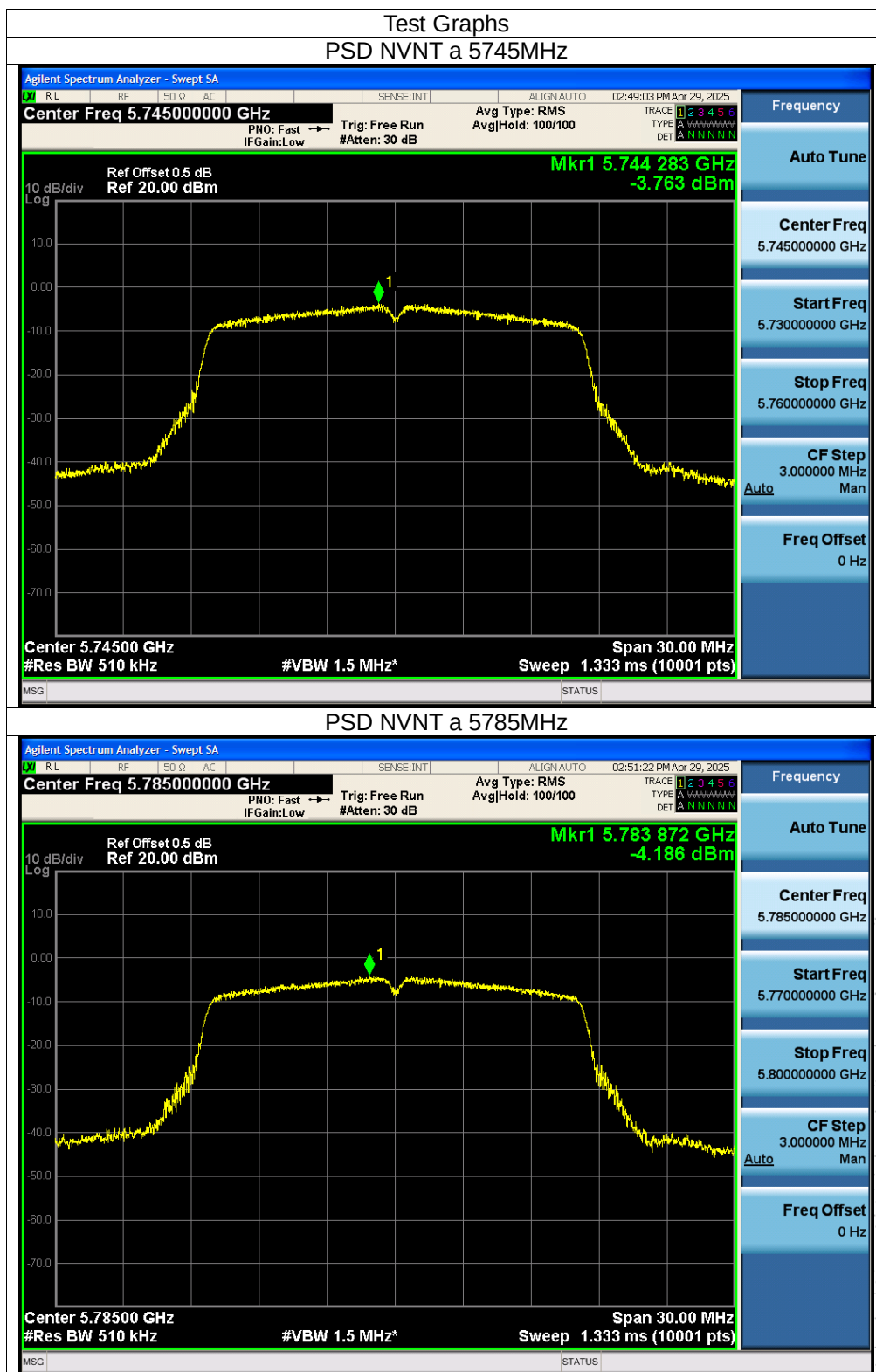


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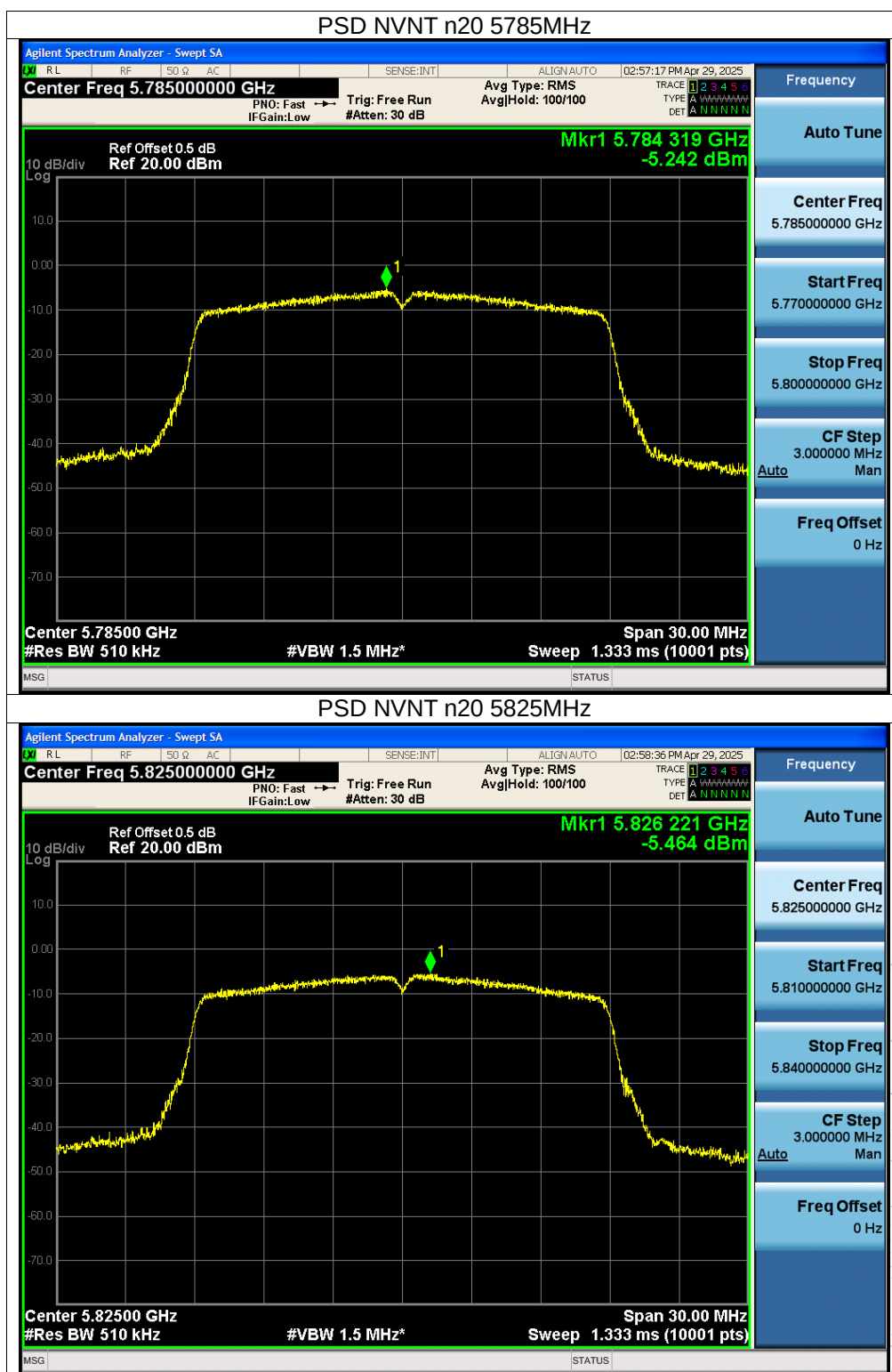




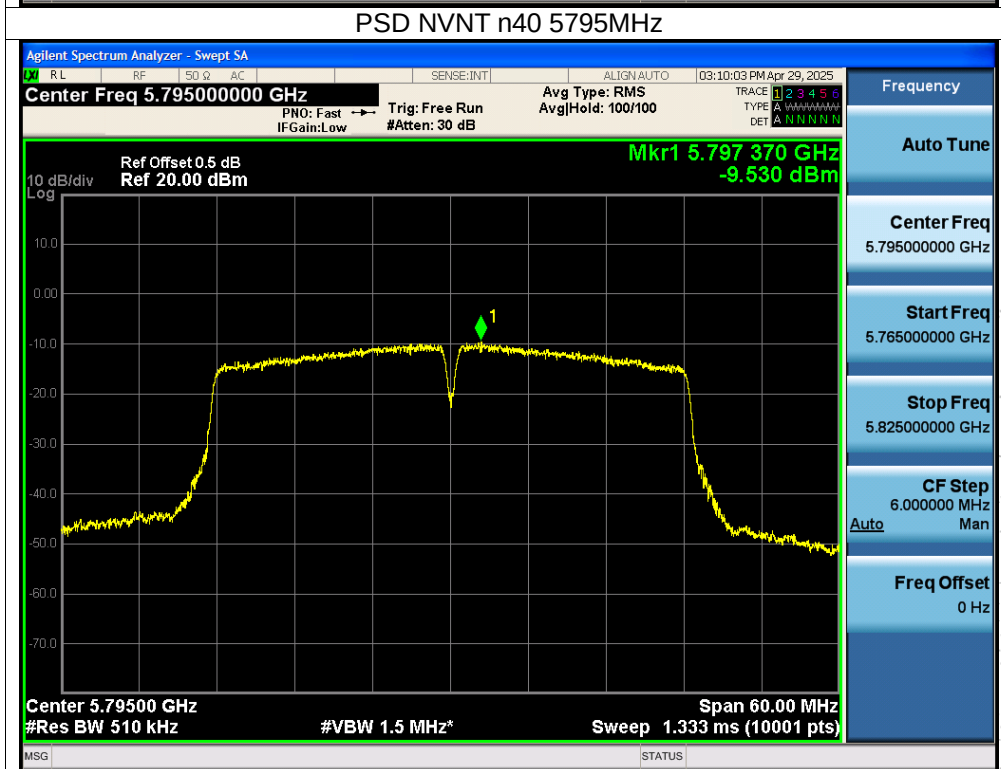
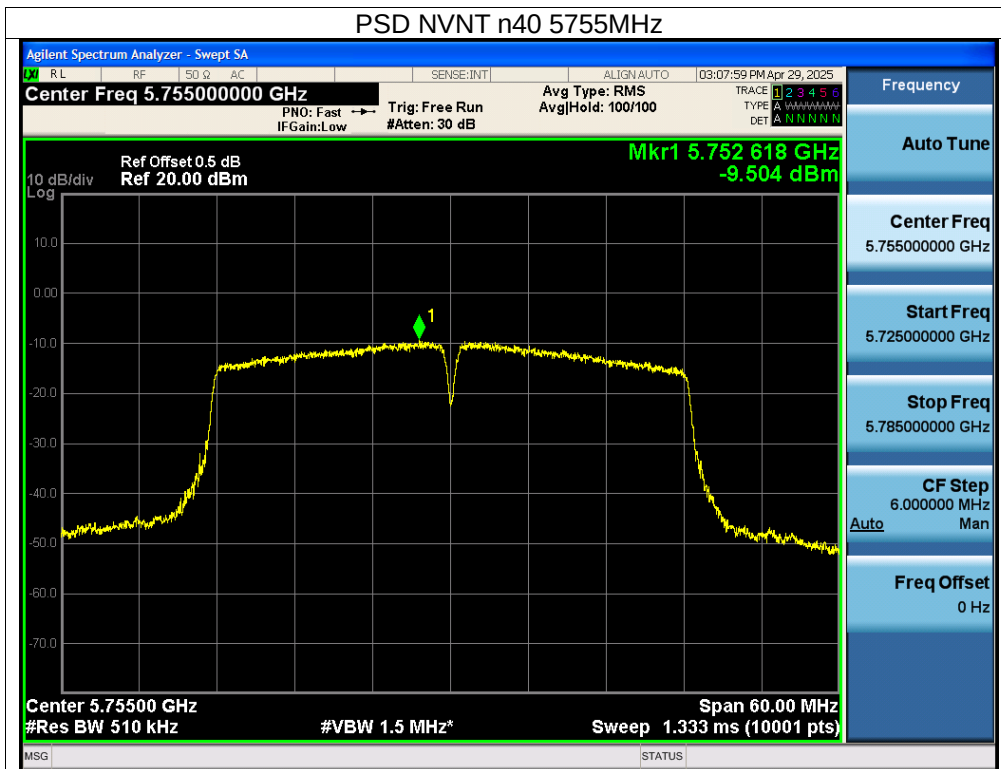


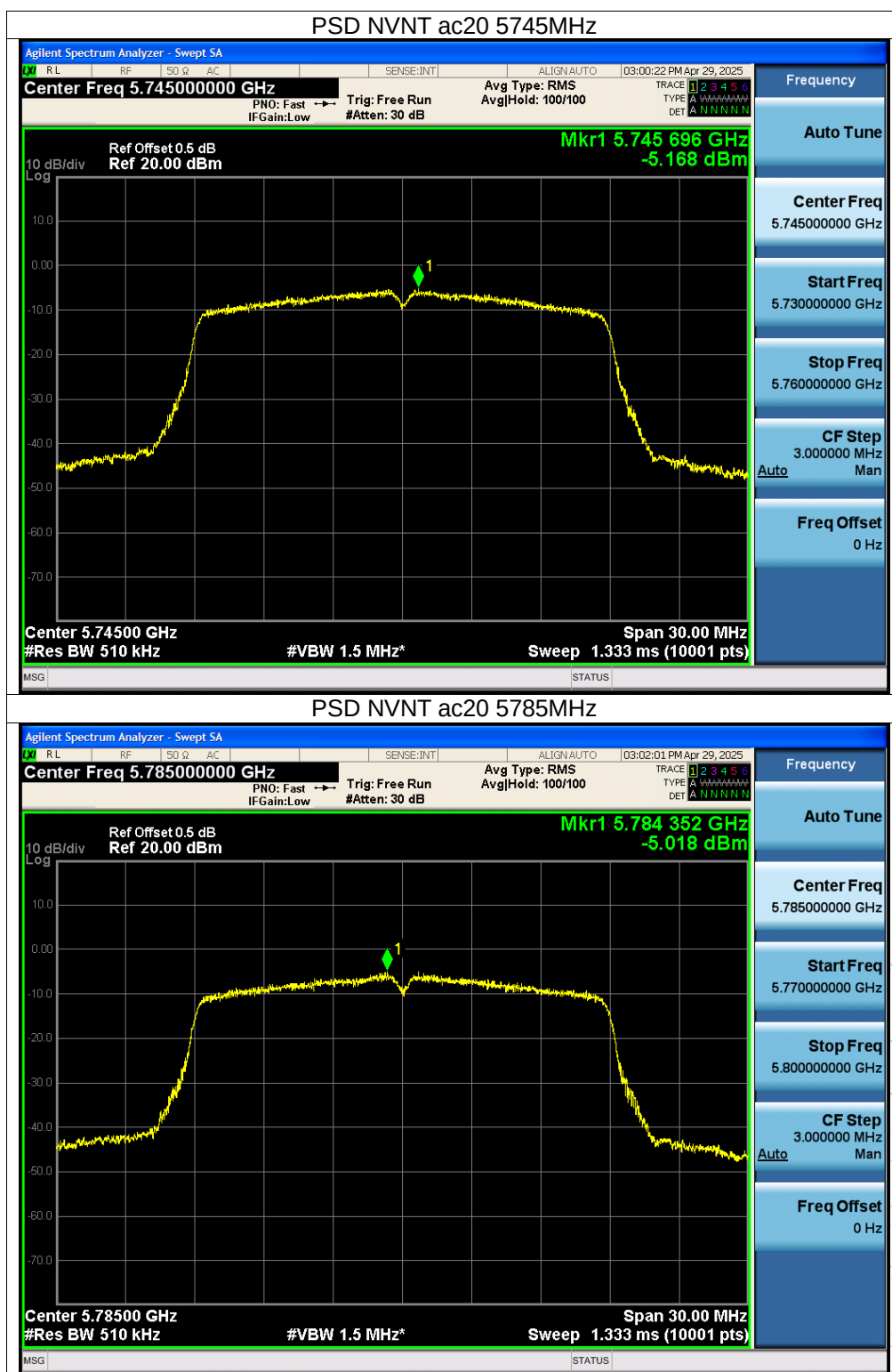


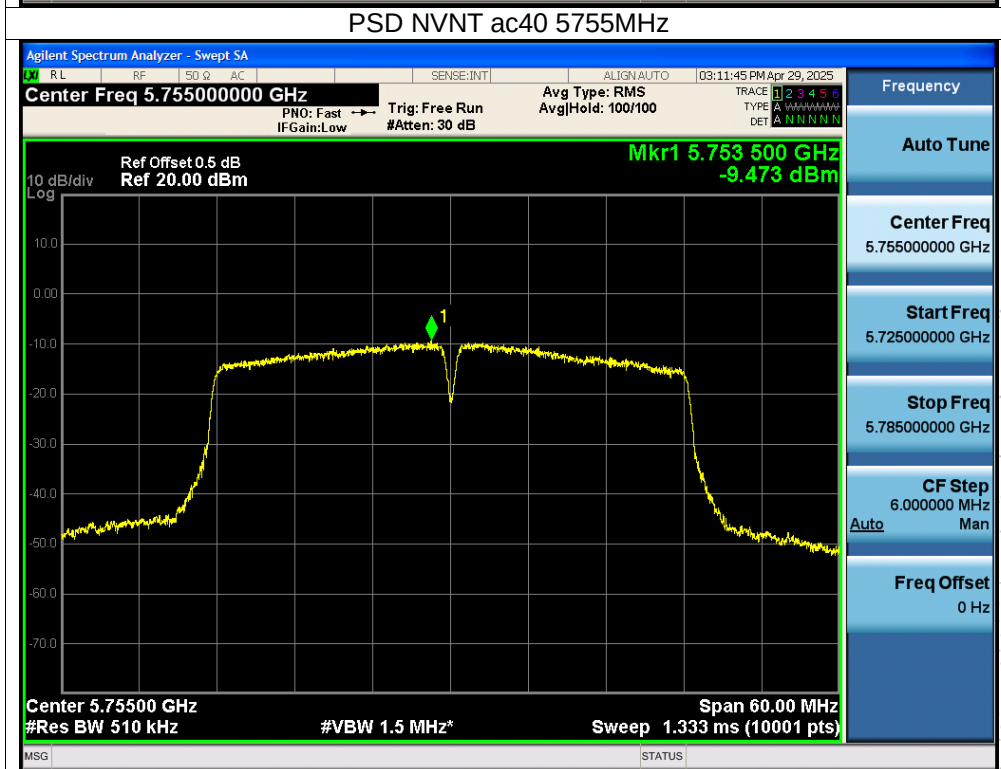
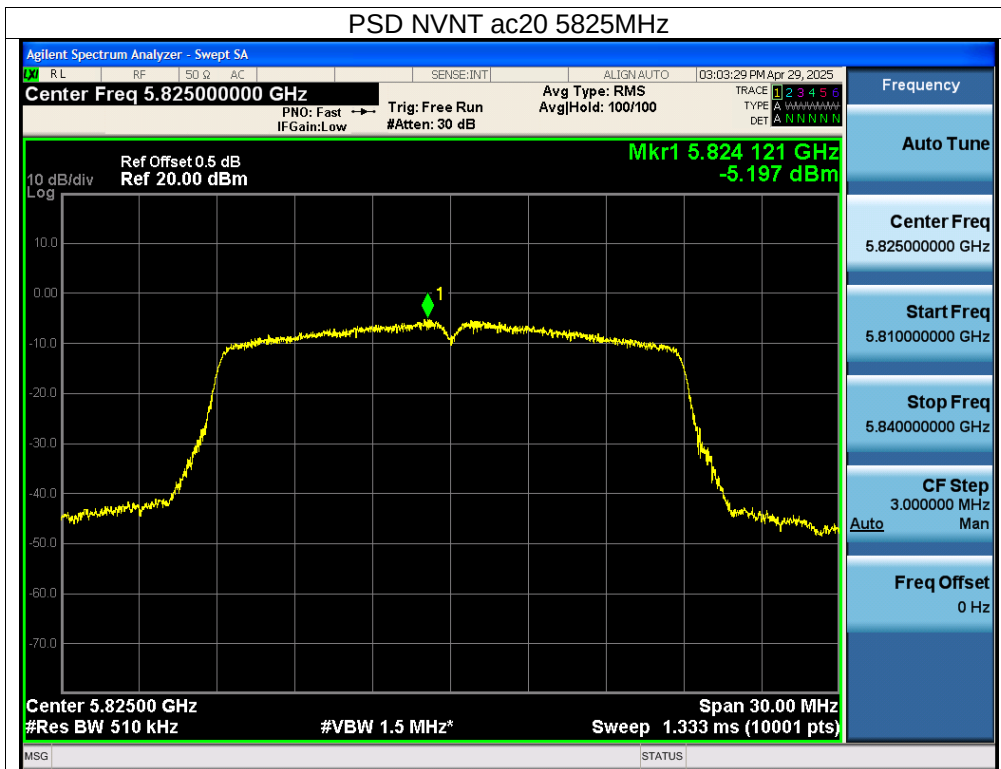


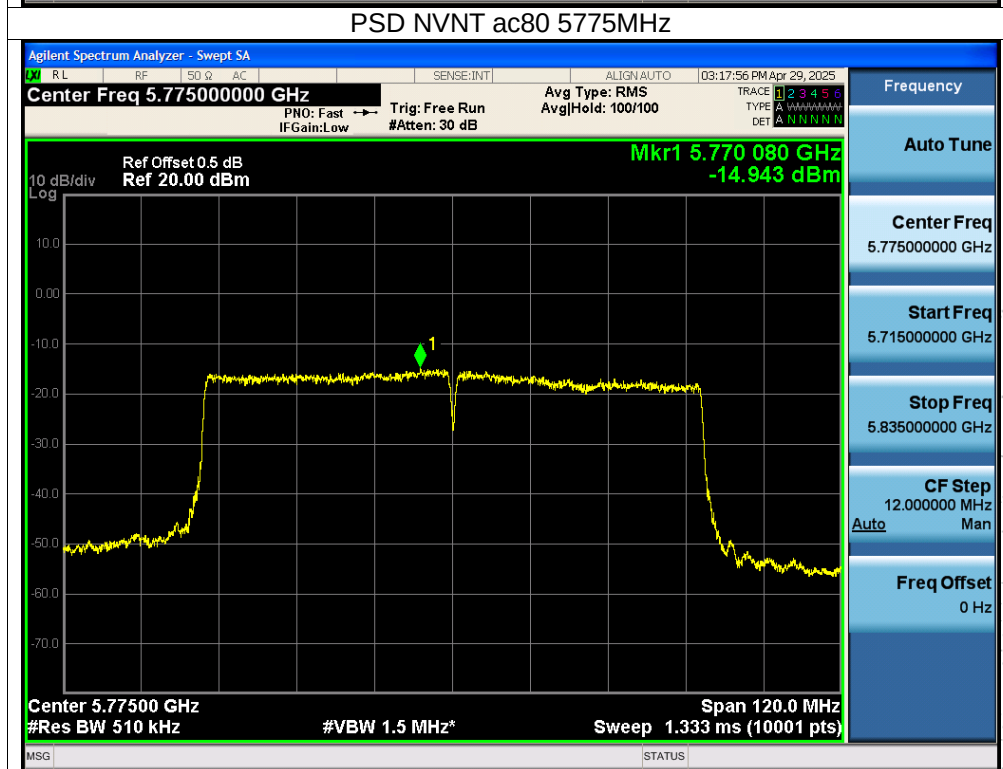
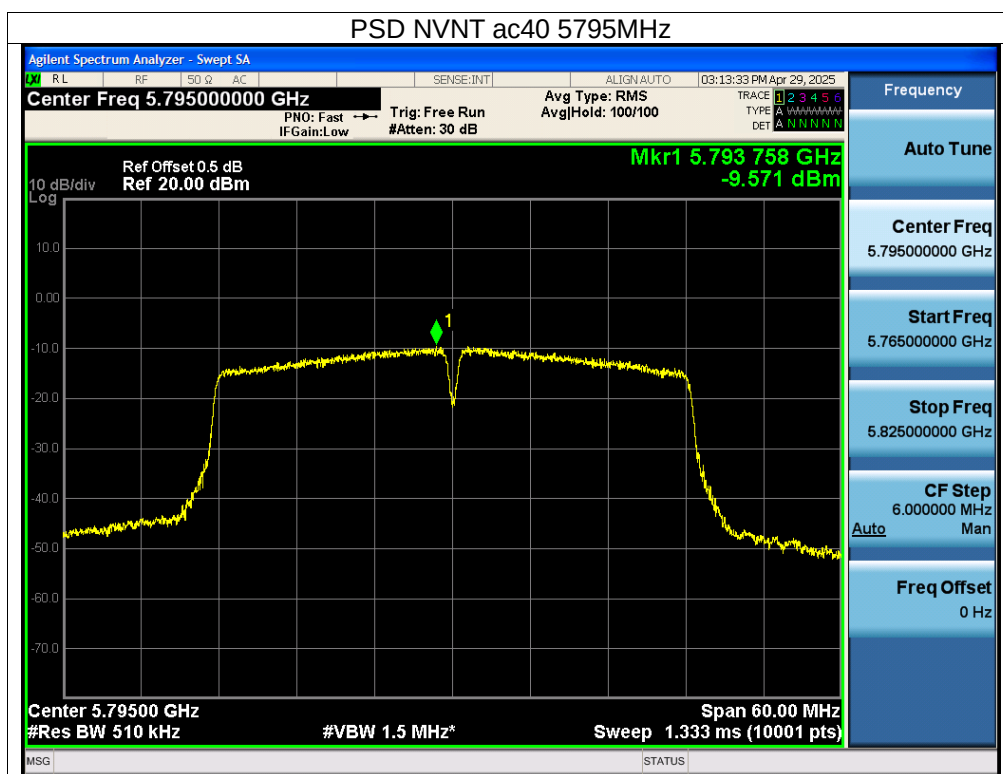


CO. LTD



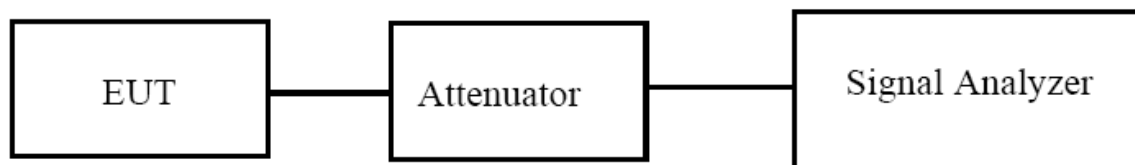






9. 26dB & 6dB & 99% Emission Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

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

9.3 Test procedure

a) Set RBW = approximately 1% of the emission bandwidth.

b) Set the VBW > RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

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

1. Set center frequency to the nominal EUT channel center frequency.

2. Set span = 1.5 times to 5.0 times the OBW.

3. Set RBW = 1 % to 5 % of the OBW

4. Set VBW $\geq 3 \cdot$ RBW

5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

6. Use the 99 % power bandwidth function of the instrument (if available).

7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

9.4 EUT operating Conditions

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

9.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 12.8V
Test Mode:	(5180-5240MHz)		

Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)
NVNT	a	5180	19.971
NVNT	a	5200	20.307
NVNT	a	5240	20.811
NVNT	n20	5180	20.788
NVNT	n20	5200	20.487
NVNT	n20	5240	20.707
NVNT	n40	5190	40.889
NVNT	n40	5230	40.444
NVNT	ac20	5180	19.738
NVNT	ac20	5200	19.655
NVNT	ac20	5240	20.095
NVNT	ac40	5190	39.986
NVNT	ac40	5230	40.323
NVNT	ac80	5210	81.757

Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5180	16.399
NVNT	a	5200	16.426
NVNT	a	5240	16.398
NVNT	n20	5180	17.532
NVNT	n20	5200	17.534
NVNT	n20	5240	17.549
NVNT	n40	5190	35.908
NVNT	n40	5230	35.925
NVNT	ac20	5180	17.496
NVNT	ac20	5200	17.532
NVNT	ac20	5240	17.543
NVNT	ac40	5190	35.863
NVNT	ac40	5230	35.940
NVNT	ac80	5210	75.820

Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 18V
Test Mode:	(5745-5825MHz)		

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	11.624	0.5	Pass
NVNT	a	5785	15.097	0.5	Pass
NVNT	a	5825	13.749	0.5	Pass
NVNT	n20	5745	15.420	0.5	Pass
NVNT	n20	5785	15.029	0.5	Pass
NVNT	n20	5825	12.543	0.5	Pass
NVNT	n40	5755	33.839	0.5	Pass
NVNT	n40	5795	35.052	0.5	Pass
NVNT	ac20	5745	15.115	0.5	Pass
NVNT	ac20	5785	14.937	0.5	Pass
NVNT	ac20	5825	15.136	0.5	Pass
NVNT	ac40	5755	35.058	0.5	Pass
NVNT	ac40	5795	35.044	0.5	Pass
NVNT	ac80	5775	75.736	0.5	Pass

Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5745	16.335
NVNT	a	5785	16.340
NVNT	a	5825	16.342
NVNT	n20	5745	17.492
NVNT	n20	5785	17.506
NVNT	n20	5825	17.512
NVNT	n40	5755	35.869
NVNT	n40	5795	35.926
NVNT	ac20	5745	17.507
NVNT	ac20	5785	17.510
NVNT	ac20	5825	17.501
NVNT	ac40	5755	35.821
NVNT	ac40	5795	35.915
NVNT	ac80	5775	75.711

