

TEST REPORT

Report No.: BCTC2401584963-4E

Applicant: Shenzhen EDUP Electronics Technology Co.,Ltd.

Product Name: USB WiFi Adapter

Test Model: EP-AC1633

Tested Date: 2024-01-02 to 2024-01-24

Issued Date: 2024-03-04

Shenzhen BCTC Testing Co., Ltd.

FCC ID:2AHRDEP-AC1633

Product Name: USB WiFi Adapter

Trademark: EDUP,EDUP HOME,EDUP LOVE,WISE TIGER

Model/Type Reference: EP-AC1633,EP-AC1661ES,EP-AC1661Pro,EP-AC1661S,EP-AC1661GS,
EP-AC1633S,EP-AC1662,EP-AC1661

Prepared For: Shenzhen EDUP Electronics Technology Co.,Ltd.

Address: 6 Floor, #6 Building, No.48, Kangzheng Road Liantang Industrial Area, Buji
Town,Shenzhen,china

Manufacturer: Shenzhen EDUP Electronics Technology Co.,Ltd.

Address: 6 Floor, #6 Building, No.48, Kangzheng Road Liantang Industrial Area, Buji
Town,Shenzhen,china

Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road,
Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Sample Received Date: 2024-01-02

Sample Tested Date: 2024-01-02 to 2024-01-24

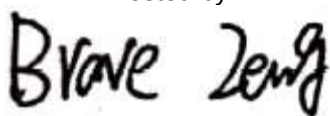
Issue Date: 2024-03-04

Report No.: BCTC2401584963-3E

Test Standards: FCC Part15 15.407
ANSI C63.10-2013
KDB 662911 D01 v02r01
KDB 789033 D02 v02r01

Test Results: PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

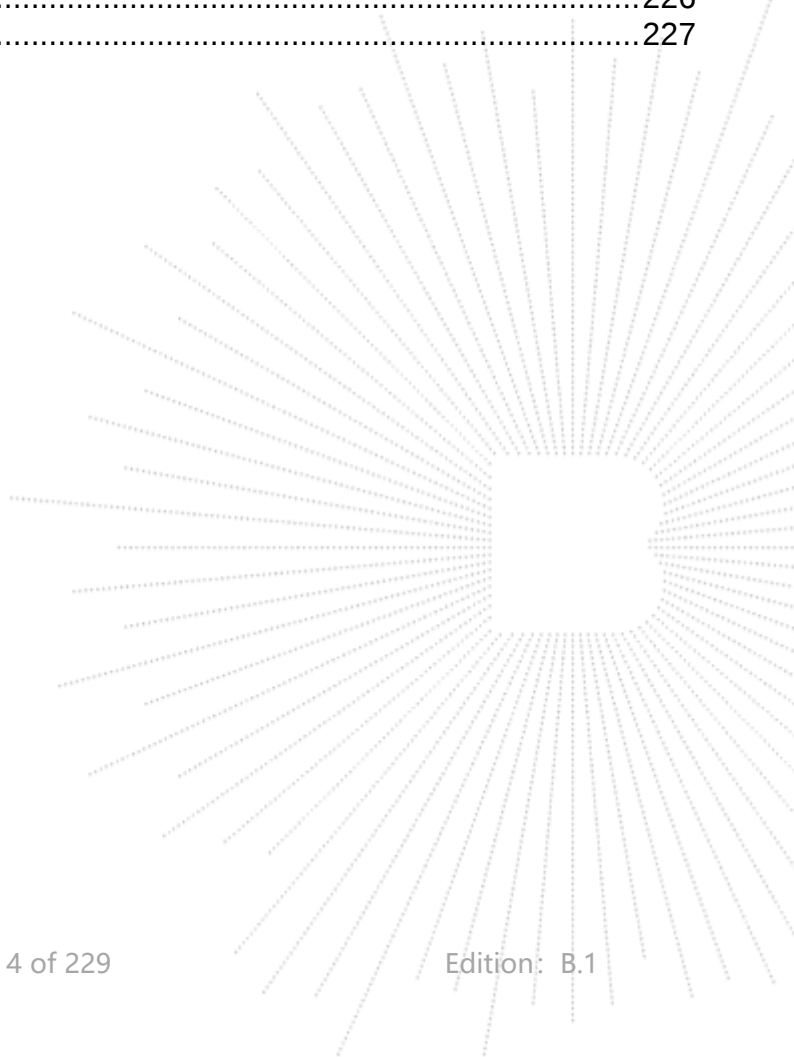
The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

Table Of Content

Test Report Declaration	Page
1. Version	5
2. Test Summary	6
3. Measurement Uncertainty	7
4. Product Information And Test Setup	8
4.1 Product Information	8
4.2 Test Setup Configuration	9
4.3 Support Equipment	9
4.4 Channel List	10
4.5 Test Mode	11
4.6 Table Of Parameters Of Text Software Setting	11
5. Test Facility And Test Instrument Used	12
5.1 Test Facility	12
5.2 Test Instrument Used	12
6. Conducted Emissions	14
6.1 Block Diagram Of Test Setup	14
6.2 Limit	14
6.3 Test procedure	14
6.4 EUT operating Conditions	14
6.5 Test Result	15
7. Radiated Emissions	17
7.1 Block Diagram Of Test Setup	17
7.2 Limit	18
7.3 Test Procedure	19
7.4 EUT Operating Conditions	20
7.5 Test Result	20
8. Power Spectral Density Test	50
8.1 Block Diagram Of Test Setup	50
8.2 Limit	50
8.3 Test Procedure	51
8.4 EUT Operating Conditions	51
8.5 Test Result	52
9. 26dB & 6dB & 99% Emission Bandwidth	85
9.1 Block Diagram Of Test Setup	85
9.2 Limit	85
9.3 Test Procedure	85
9.4 EUT Operating Conditions	86
9.5 Test Result	87
10. Maximum Conducted Output Power	149
10.1 Block Diagram Of Test Setup	149
10.2 Limit	149
10.3 Test Procedure	149
10.4 EUT Operating Conditions	150
10.5 Test Result	151

11. Out Of Band Emissions	155
11.1 Block Diagram Of Test Setup.....	155
11.2 Limit	155
11.3 Test Procedure	155
11.4 EUT Operating Conditions	155
11.5 Test Result.....	156
12. Spurious RF Conducted Emissions.....	180
12.1 Block Diagram Of Test Setup.....	180
12.2 Limit	180
12.3 Test Procedure	180
12.4 Test Result.....	180
13. Frequency Stability Measurement	210
13.1 Block Diagram Of Test Setup.....	210
13.2 Limit	210
13.3 Test Procedure	210
13.4 Test Result.....	211
14. Duty Cycle Of Test Signal	223
14.1 Standard Requirement	223
14.2 Formula.....	223
14.3 Test Procedure	223
14.4 Test Result.....	223
15. Antenna Requirement	226
15.1 Limit	226
15.2 Test Result.....	226
16. EUT Test Setup Photographs.....	227

(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2401584963-4E	2024-03-04	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)	PASS
2	Conducted Emission	15.207	PASS
3	26 dB and 99% Emission Bandwidth	15.407 a 15.1049	PASS
4	Minimum 6 dB bandwidth	15.407(e)	PASS
5	Maximum Conducted Output Power	15.407 a	PASS
6	Band Edge	15.407 b	PASS
7	Power Spectral Density	15.407 a	PASS
8	Spurious Emissions at Antenna Terminals	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°C

4. Product Information And Test Setup

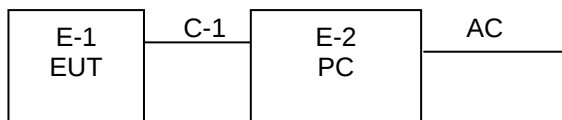
4.1 Product Information

Model/Type reference:	EP-AC1633,EP-AC1661ES,EP-AC1661Pro,EP-AC1661S,EP-AC1661GS,EP-AC1633S,E P-AC1662,EP-AC1661	
Model differences:	All the model are the same circuit and RF module, except model names and appearance of the color.	
Device type:	Client	
TPC Function:	☐ Applicable	☒ Not Applicable
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/ac(HT20); 5190-5230MHz for 802.11n/ac(HT40); 5210MHz for 802.11 ac80; 5260-5320MHz for 802.11a/n/ac(HT20); 5270-5310MHz for 802.11n/ac(HT40); 5290MHz for 802.11 ac80; 5500-5700MHz for 802.11a/n/ac(HT20); 5410-5670MHz for 802.11n/ac(HT40); 5530MHz for 802.11 ac80; 5745-5825 MHz for 802.11a/n/ac(HT20); 5755-5795 MHz for 802.11n/ac(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-MCS9	
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;	
Antenna installation:	Internal antenna	
Antenna Gain:	2 dBi	
Ratings:	DC 5V	
Remark:	The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.	

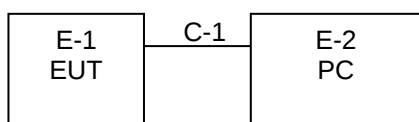
4.2 Test Setup Configuration

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	USB WiFi Adapter	N/A	EP-AC1633	N/A	EUT
E-2	PC	N/A	N/A	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	N/A	N/A

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

(U-NII-1) 5180MHz-5240MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency
20MHz	36	5180	40	5200
	44	5220	48	5240
40MHz	38	5190	46	5230
80MHz	42	5210		
(U-NII-2A) 5260MHz-5320MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency
20MHz	52	5260	56	5280
	60	5300	64	5320
40MHz	54	5270	62	5310
80MHz	58	5290		
(U-NII-2C) 5500MHz-5700MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency
20MHz	100	5500	105	5520
	108	5540	112	5560
	116	5580	132	5660
	136	5680	140	5700
40MHz	102	5510	110	5550
	134	5670	142	5710
80MHz	106	5530		
(U-NII-3) 5745MHz-5825MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency
20MHz	149	5745	153	5765
	157	5785	161	5805
	165	5825		
40MHz	151	5755	159	5795
80MHz	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 CH52/ CH56/ CH 64 802.11a / n/ ac 20 CH100/ CH116/ CH 140 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH54/ CH 62 802.11n/ ac40 CH102/ CH 110/CH134 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/ CH 58/ CH 106/ CH 155
Mode 4	Link Mode

Note:

(1) 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	CMD		
Parameters	DEF	DEF	DEF

5. Test Facility And Test Instrument Used

5.1 Test Facility

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

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

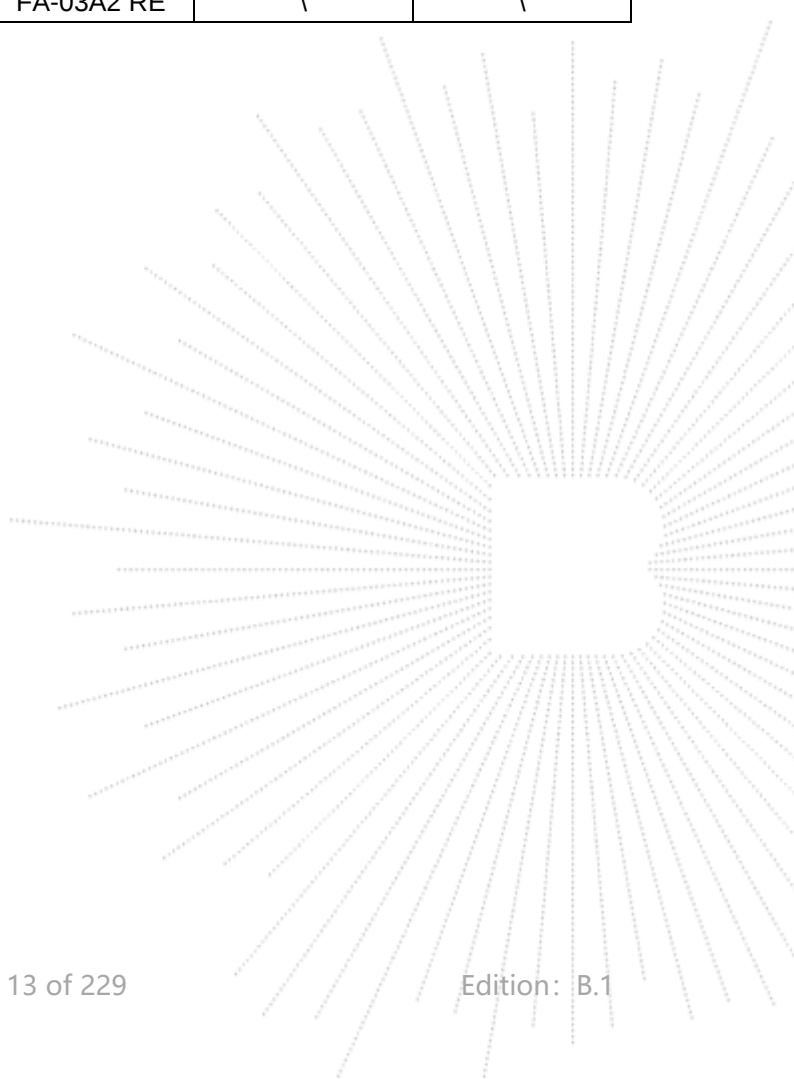
ISED CAB identifier: CN0017

5.2 Test Instrument Used

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

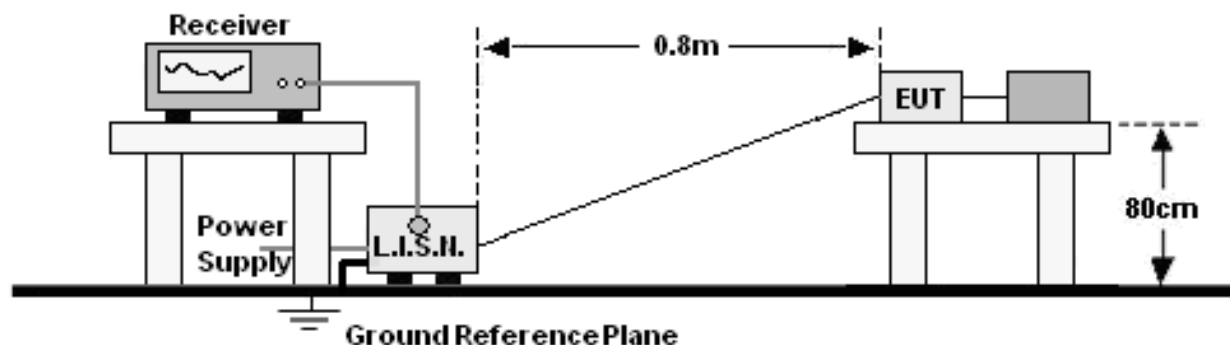
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 15, 2023	May 14, 2024
Power Sensor (AV)	Keysight	E9300A	\	May 15, 2023	May 14, 2024
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
Radio frequency control box	MAIWEI	MW100-RF CB	\	\	\
Software	MAIWEI	MTS 8310	\	\	\

Radiated Emissions Test (966 Chamber02)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	SKET	966 Room	966	Nov. 02. 2021	Nov. 01.2024
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
Receiver	R&S	ESR17	100010	Nov. 13. 2023	Nov. 12, 2024
Amplifier	SKET	LNPA-30M01 G-30	SK2021082004	Nov. 13. 2023	Nov. 12, 2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9168	1323	Mar. 06, 2022	Mar. 05, 2024
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024
Amplifier	SKET	LAPA_01G18 G-45dB	SK202104090 1	May 15, 2023	May 14, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 15, 2023	May 14, 2024
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	FA-03A2 RE	\	\



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

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

Notes:

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

6.3 Test procedure

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

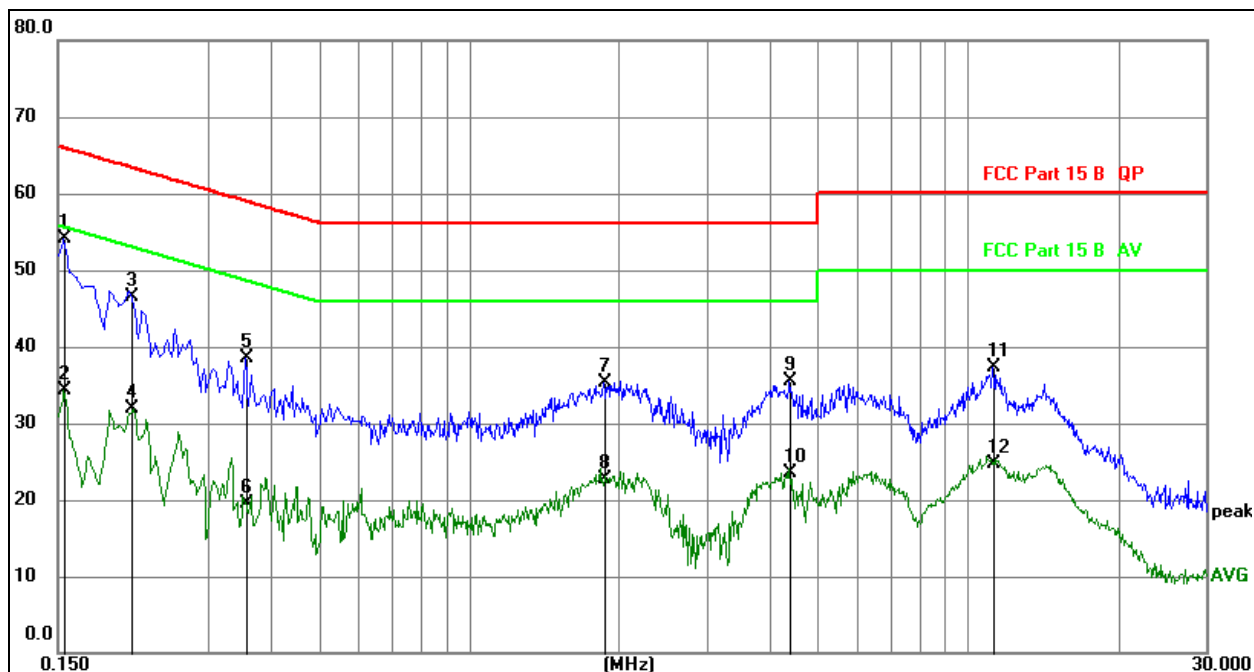
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak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

6.4 EUT operating Conditions

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

6.5 Test Result

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

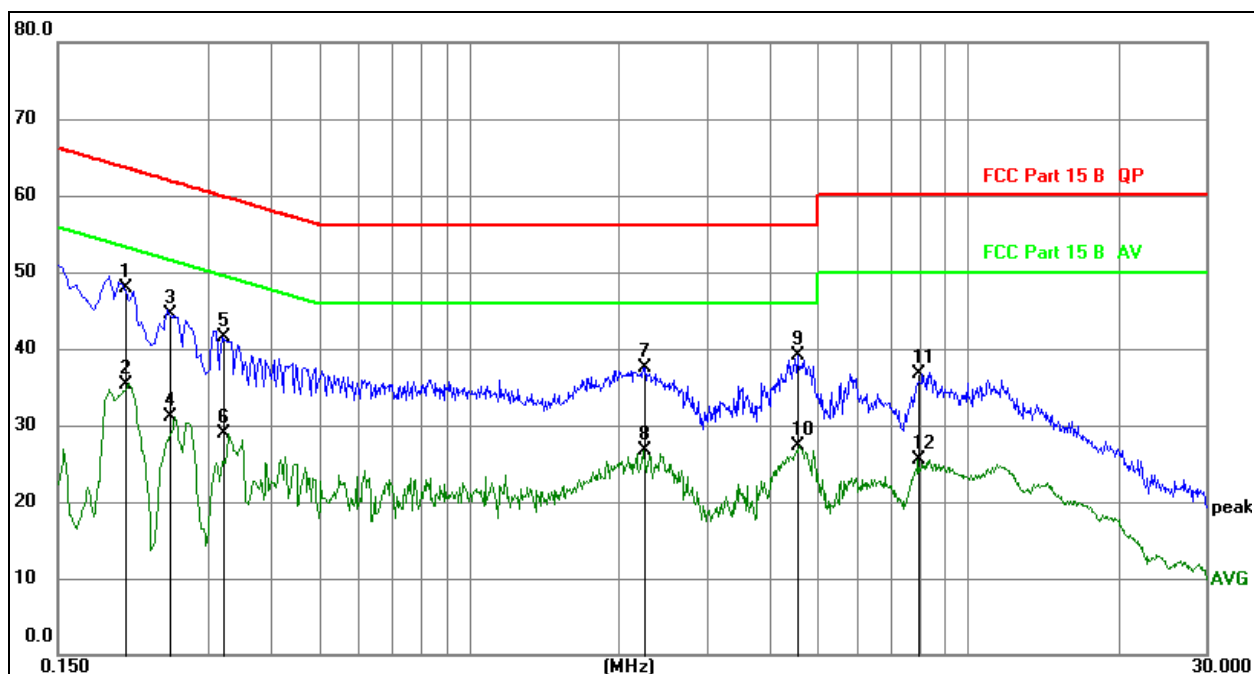


Remark:

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. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1 *	0.1545	43.97	10.18	54.15	65.75	-11.60	QP	
2	0.1545	24.19	10.18	34.37	55.75	-21.38	AVG	
3	0.2106	36.33	10.19	46.52	63.18	-16.66	QP	
4	0.2106	21.78	10.19	31.97	53.18	-21.21	AVG	
5	0.3570	28.30	10.18	38.48	58.80	-20.32	QP	
6	0.3570	9.32	10.18	19.50	48.80	-29.30	AVG	
7	1.8600	25.23	10.11	35.34	56.00	-20.66	QP	
8	1.8600	12.60	10.11	22.71	46.00	-23.29	AVG	
9	4.3890	25.32	10.27	35.59	56.00	-20.41	QP	
10	4.3890	13.25	10.27	23.52	46.00	-22.48	AVG	
11	11.2514	26.69	10.62	37.31	60.00	-22.69	QP	
12	11.2514	14.08	10.62	24.70	50.00	-25.30	AVG	

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


Remark:

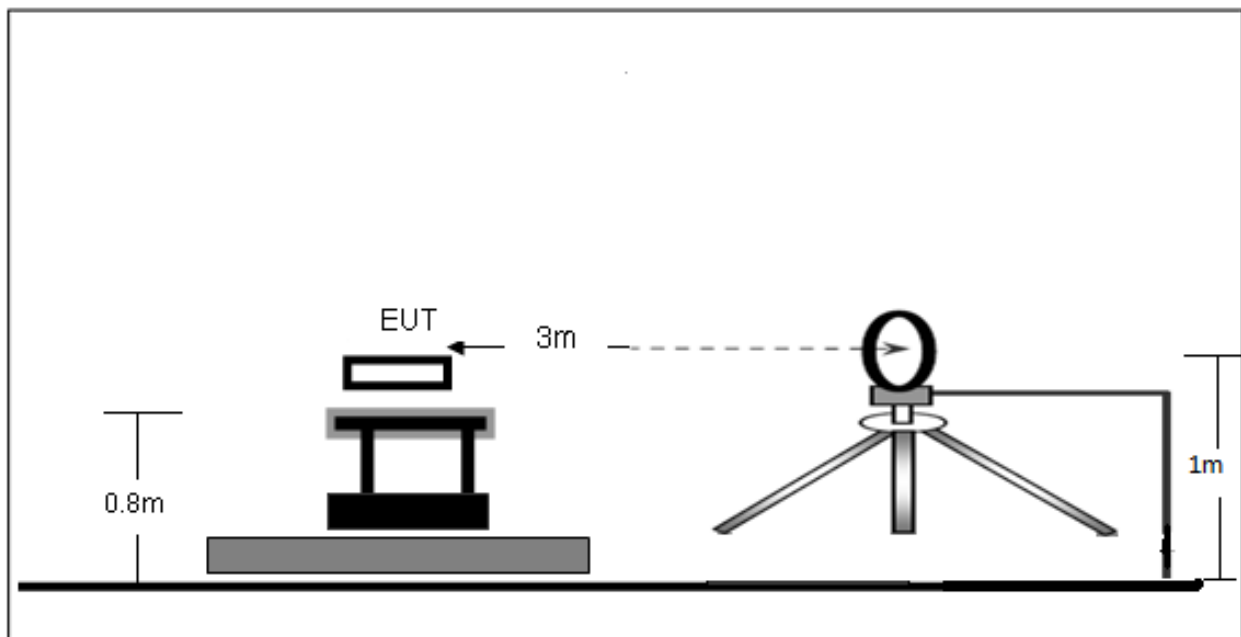
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No. Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1 *	0.2040	37.78	10.19	47.97	63.45	-15.48	QP	
2	0.2040	25.21	10.19	35.40	53.45	-18.05	AVG	
3	0.2508	34.38	10.19	44.57	61.73	-17.16	QP	
4	0.2508	20.99	10.19	31.18	51.73	-20.55	AVG	
5	0.3209	31.25	10.19	41.44	59.68	-18.24	QP	
6	0.3209	18.79	10.19	28.98	49.68	-20.70	AVG	
7	2.2380	27.47	10.11	37.58	56.00	-18.42	QP	
8	2.2380	16.60	10.11	26.71	46.00	-19.29	AVG	
9	4.5734	28.72	10.29	39.01	56.00	-16.99	QP	
10	4.5734	16.96	10.29	27.25	46.00	-18.75	AVG	
11	7.9665	26.14	10.49	36.63	60.00	-23.37	QP	
12	7.9665	15.08	10.49	25.57	50.00	-24.43	AVG	

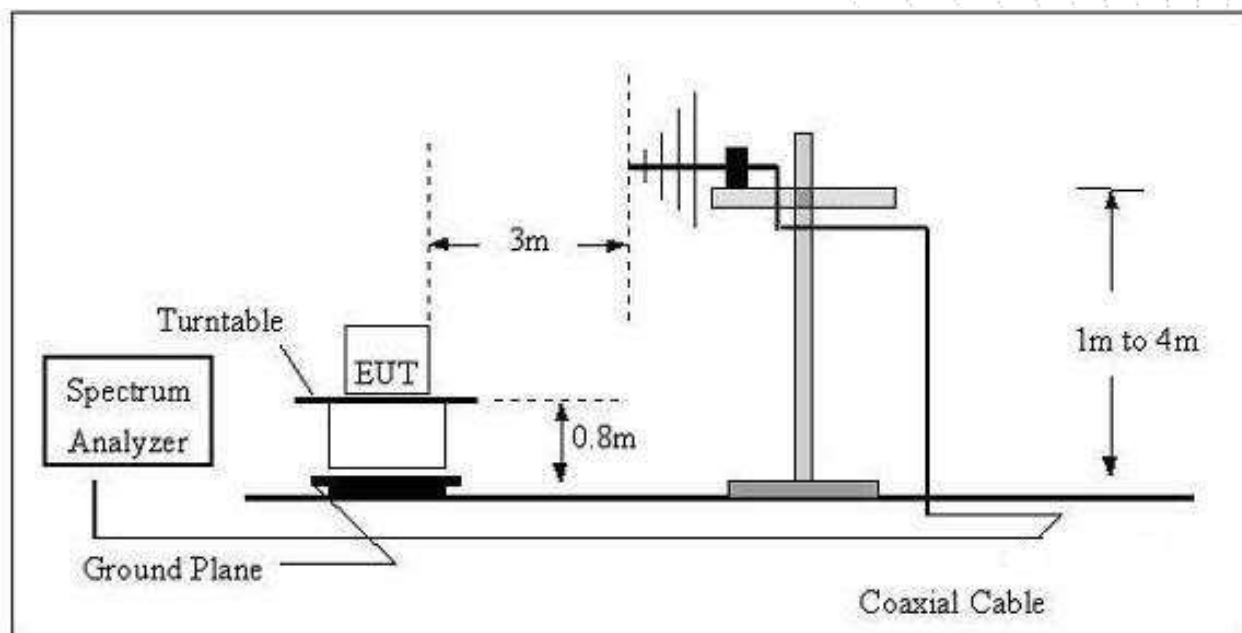
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

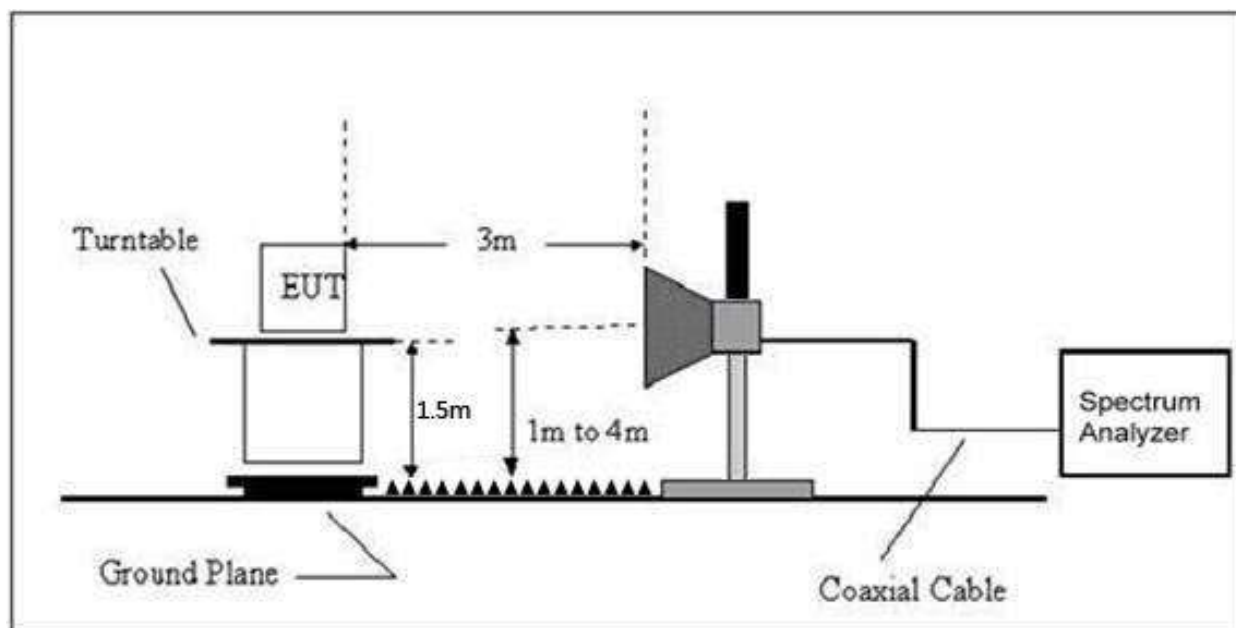
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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:	24%
Pressure:	101 kPa	Test Voltage :	DC 5V
Test Mode:	Mode 4	Polarization:	--

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

Note:

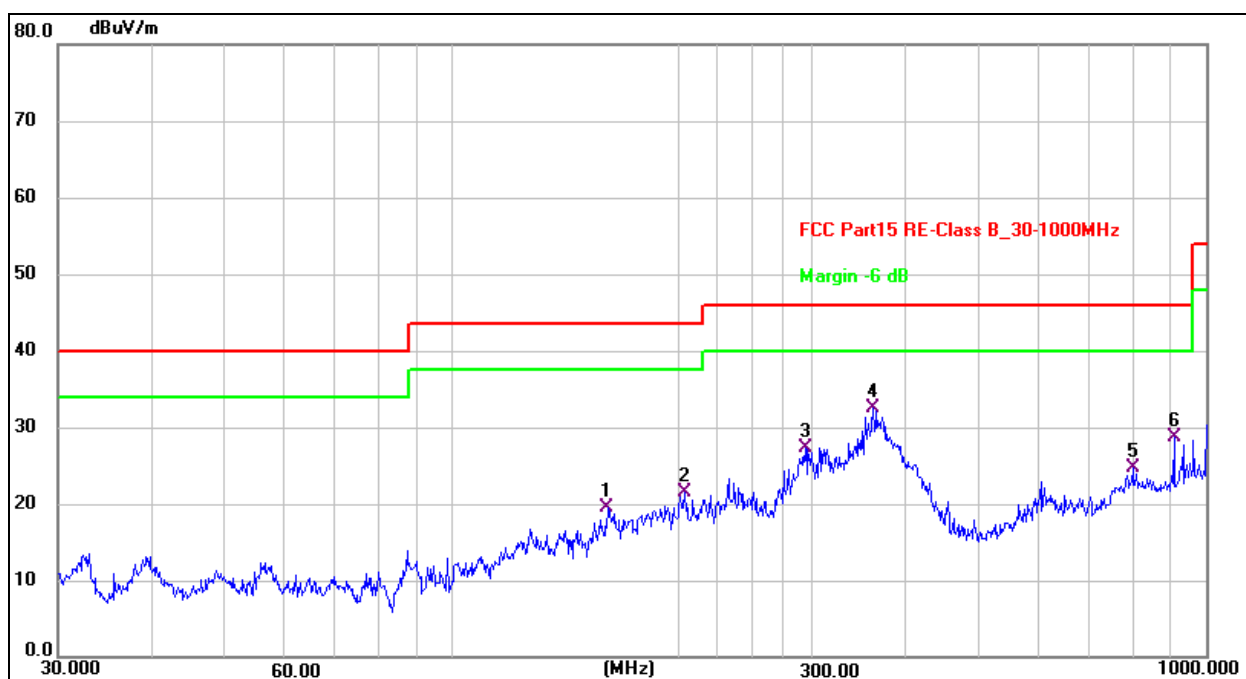
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	Mode 4	Polarization :	Horizontal

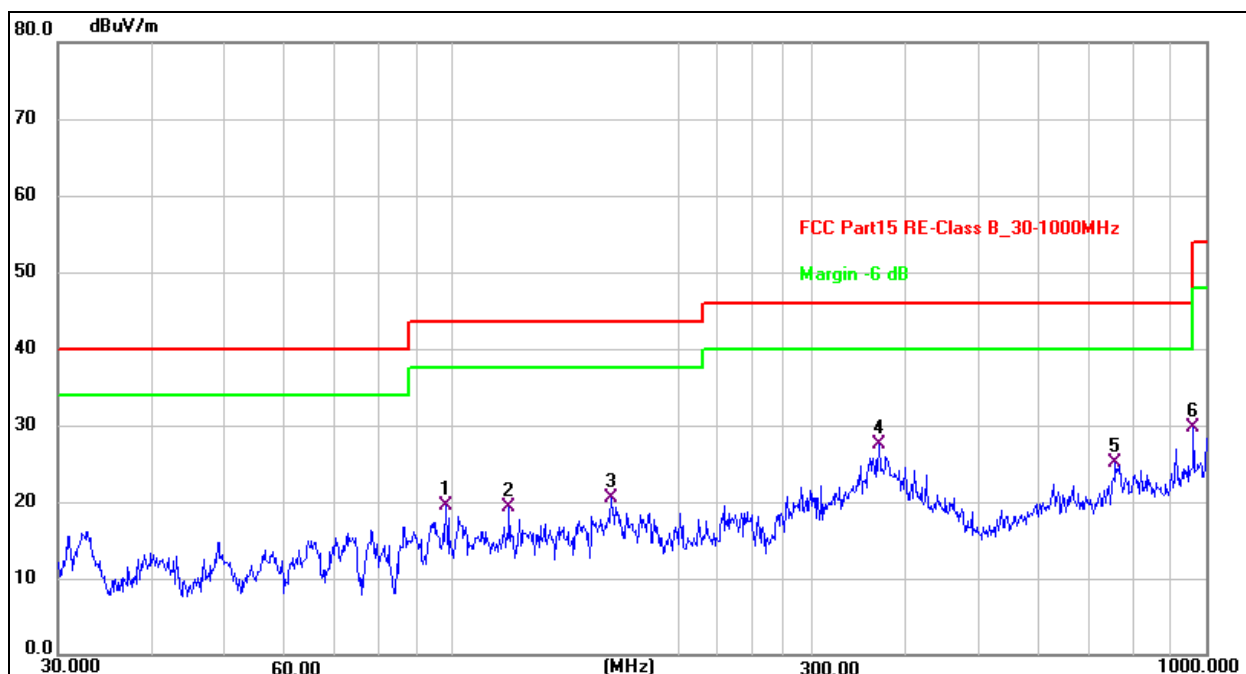


Remark:

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	160.9089	27.83	-8.29	19.54	43.50	-23.96	QP
2	203.5228	32.68	-11.26	21.42	43.50	-22.08	QP
3	294.1137	35.82	-8.59	27.23	46.00	-18.77	QP
4 *	361.7139	39.44	-6.86	32.58	46.00	-13.42	QP
5	798.9797	23.27	1.47	24.74	46.00	-21.26	QP
6	906.4824	26.16	2.46	28.62	46.00	-17.38	QP

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V
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.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	98.1419	31.66	-12.23	19.43	43.50	-24.07	QP
2	119.0180	29.92	-10.65	19.27	43.50	-24.23	QP
3	162.6106	28.75	-8.34	20.41	43.50	-23.09	QP
4 *	368.1116	34.14	-6.72	27.42	46.00	-18.58	QP
5	758.0408	24.33	0.79	25.12	46.00	-20.88	QP
6	962.1623	26.35	3.31	29.66	54.00	-24.34	QP

Test Mode:	TX(5.1G) - 802.11a
------------	--------------------

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.178	72.75	-20.73	52.02	68.2	-16.18	PK
Vertical	4434.178	59.88	-20.73	39.15	54	-14.85	AV
Vertical	10360.070	64.93	-9.36	55.57	68.2	-12.63	PK
Vertical	10360.070	49.09	-9.36	39.73	54	-14.27	AV
Vertical	15540.092	61.46	-7.84	53.62	74	-20.38	PK
Vertical	15540.092	49.52	-7.84	41.68	54	-12.32	AV
Horizontal	4434.033	73.33	-20.73	52.60	68.2	-15.60	PK
Horizontal	4434.033	59.10	-20.73	38.37	54	-15.63	AV
Horizontal	10360.115	64.15	-9.36	54.79	68.2	-13.41	PK
Horizontal	10360.115	49.59	-9.36	40.23	54	-13.77	AV
Horizontal	15540.099	60.30	-7.84	52.46	74	-21.54	PK
Horizontal	15540.099	49.31	-7.84	41.47	54	-12.53	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.136	73.37	-20.42	52.95	74	-21.05	PK
Vertical	4592.136	59.95	-20.42	39.53	54	-14.47	AV
Vertical	10400.134	64.97	-9.30	55.67	68.2	-12.53	PK
Vertical	10400.134	49.54	-9.30	40.24	54	-13.76	AV
Vertical	15600.121	64.69	-7.82	56.87	74	-17.13	PK
Vertical	15600.121	49.72	-7.82	41.90	54	-12.10	AV
Horizontal	4592.087	73.52	-20.42	53.11	74	-20.89	PK
Horizontal	4592.087	59.44	-20.42	39.03	54	-14.97	AV
Horizontal	10400.040	61.55	-9.30	52.25	68.2	-15.95	PK
Horizontal	10400.040	49.38	-9.30	40.08	54	-13.92	AV
Horizontal	15600.173	60.15	-7.82	52.33	74	-21.67	PK
Horizontal	15600.173	49.68	-7.82	41.86	54	-12.14	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.166	73.61	-20.12	53.49	74	-20.51	PK
Vertical	4739.166	59.98	-20.12	39.85	54	-14.15	AV
Vertical	10480.022	63.22	-9.18	54.04	68.2	-14.16	PK
Vertical	10480.022	49.54	-9.18	40.36	54	-13.64	AV
Vertical	15720.020	63.09	-7.78	55.31	74	-18.69	PK
Vertical	15720.020	49.37	-7.78	41.59	54	-12.41	AV
Horizontal	4739.193	71.47	-20.12	51.34	74	-22.66	PK
Horizontal	4739.193	59.94	-20.12	39.82	54	-14.18	AV
Horizontal	10480.139	62.63	-9.18	53.45	68.2	-14.75	PK
Horizontal	10480.139	49.62	-9.18	40.44	54	-13.56	AV
Horizontal	15720.047	63.66	-7.78	55.88	74	-18.12	PK
Horizontal	15720.047	49.01	-7.78	41.23	54	-12.77	AV

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

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

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

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

Test Mode:	TX(5.1G) - 802.11n-HT20
------------	-------------------------

Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.053	73.90	-20.73	53.17	68.2	-15.03	PK
Vertical	4434.053	59.41	-20.73	38.68	54	-15.32	AV
Vertical	10360.082	61.02	-9.36	51.66	68.2	-16.54	PK
Vertical	10360.082	49.77	-9.36	40.41	54	-13.59	AV
Vertical	15540.028	61.62	-7.84	53.78	74	-20.22	PK
Vertical	15540.028	49.62	-7.84	41.78	54	-12.22	AV
Horizontal	4434.055	73.24	-20.73	52.51	68.2	-15.69	PK
Horizontal	4434.055	59.52	-20.73	38.79	54	-15.21	AV
Horizontal	10360.157	63.32	-9.36	53.96	68.2	-14.24	PK
Horizontal	10360.157	49.64	-9.36	40.28	54	-13.72	AV
Horizontal	15540.104	61.19	-7.84	53.35	74	-20.65	PK
Horizontal	15540.104	49.25	-7.84	41.41	54	-12.59	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.013	73.33	-20.42	52.91	74	-21.09	PK
Vertical	4592.013	59.05	-20.42	38.64	54	-15.36	AV
Vertical	10400.178	64.03	-9.30	54.73	68.2	-13.47	PK
Vertical	10400.178	49.86	-9.30	40.56	54	-13.44	AV
Vertical	15600.107	60.22	-7.82	52.40	74	-21.60	PK
Vertical	15600.107	49.87	-7.82	42.05	54	-11.95	AV
Horizontal	4592.136	71.68	-20.42	51.27	74	-22.73	PK
Horizontal	4592.136	59.16	-20.42	38.74	54	-15.26	AV
Horizontal	10400.014	63.23	-9.30	53.93	68.2	-14.27	PK
Horizontal	10400.014	49.13	-9.30	39.83	54	-14.17	AV
Horizontal	15600.156	63.74	-7.82	55.92	74	-18.08	PK
Horizontal	15600.156	49.87	-7.82	42.05	54	-11.95	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.037	71.59	-20.12	51.47	74	-22.53	PK
Vertical	4739.037	59.54	-20.12	39.42	54	-14.58	AV
Vertical	10480.094	64.49	-9.18	55.31	68.2	-12.89	PK
Vertical	10480.094	49.13	-9.18	39.95	54	-14.05	AV
Vertical	15720.019	64.62	-7.78	56.84	74	-17.16	PK
Vertical	15720.019	49.86	-7.78	42.08	54	-11.92	AV
Horizontal	4739.026	72.80	-20.12	52.68	74	-21.32	PK
Horizontal	4739.026	59.33	-20.12	39.21	54	-14.79	AV
Horizontal	10480.177	64.91	-9.18	55.73	68.2	-12.47	PK
Horizontal	10480.177	49.35	-9.18	40.17	54	-13.83	AV
Horizontal	15720.056	64.00	-7.78	56.22	74	-17.78	PK
Horizontal	15720.056	49.51	-7.78	41.73	54	-12.27	AV

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

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

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

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

Test Mode:	TX(5.1G) - 802.11n-HT40
------------	-------------------------

Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.038	73.18	-20.73	52.44	68.2	-15.76	PK
Vertical	4434.038	59.67	-20.73	38.94	54	-15.06	AV
Vertical	10380.102	60.75	-9.33	51.42	68.2	-16.78	PK
Vertical	10380.102	49.92	-9.33	40.59	54	-13.41	AV
Vertical	15570.003	63.81	-7.83	55.98	74	-18.02	PK
Vertical	15570.003	49.76	-7.83	41.93	54	-12.07	AV
Horizontal	4434.090	72.83	-20.73	52.10	74	-21.90	PK
Horizontal	4434.090	59.75	-20.73	39.02	54	-14.98	AV
Horizontal	10380.078	62.95	-9.33	53.62	68.2	-14.58	PK
Horizontal	10380.078	49.89	-9.33	40.56	54	-13.44	AV
Horizontal	15570.006	64.86	-7.83	57.03	74	-16.97	PK
Horizontal	15570.006	49.36	-7.83	41.53	54	-12.47	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.026	71.47	-20.12	51.35	68.2	-16.85	PK
Vertical	4739.026	59.85	-20.12	39.73	54	-14.27	AV
Vertical	10460.193	61.03	-9.21	51.82	68.2	-16.38	PK
Vertical	10460.193	49.86	-9.21	40.65	54	-13.35	AV
Vertical	15690.157	64.24	-7.79	56.45	74	-17.55	PK
Vertical	15690.157	49.05	-7.79	41.26	54	-12.74	AV
Horizontal	4739.064	72.83	-20.12	52.71	68.2	-15.49	PK
Horizontal	4739.064	59.22	-20.12	39.10	54	-14.90	AV
Horizontal	10460.085	61.73	-9.21	52.52	68.2	-15.68	PK
Horizontal	10460.085	49.06	-9.21	39.85	54	-14.15	AV
Horizontal	15690.102	62.42	-7.79	54.63	74	-19.37	PK
Horizontal	15690.102	49.22	-7.79	41.43	54	-12.57	AV

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

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

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

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

Test Mode:	TX(5.1G) - 802.11ac-HT20
------------	--------------------------

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.054	73.09	-20.73	52.36	68.2	-15.84	PK
Vertical	4434.054	59.18	-20.73	38.45	54	-15.55	AV
Vertical	10360.136	61.48	-9.36	52.12	68.2	-16.08	PK
Vertical	10360.136	49.91	-9.36	40.55	54	-13.45	AV
Vertical	15540.141	60.03	-7.84	52.19	74	-21.81	PK
Vertical	15540.141	49.52	-7.84	41.68	54	-12.32	AV
Horizontal	4434.131	73.57	-20.73	52.84	68.2	-15.36	PK
Horizontal	4434.131	59.16	-20.73	38.43	54	-15.57	AV
Horizontal	10360.049	64.59	-9.36	55.23	68.2	-12.97	PK
Horizontal	10360.049	49.47	-9.36	40.11	54	-13.89	AV
Horizontal	15540.194	61.91	-7.84	54.07	74	-19.93	PK
Horizontal	15540.194	49.22	-7.84	41.38	54	-12.62	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.055	73.57	-20.42	53.16	74	-20.84	PK
Vertical	4592.055	59.66	-20.42	39.24	54	-14.76	AV
Vertical	10400.023	64.99	-9.30	55.69	68.2	-12.51	PK
Vertical	10400.023	49.31	-9.30	40.01	54	-13.99	AV
Vertical	15600.114	63.44	-7.82	55.62	74	-18.38	PK
Vertical	15600.114	49.85	-7.82	42.03	54	-11.97	AV
Horizontal	4592.069	71.54	-20.42	51.13	74	-22.87	PK
Horizontal	4592.069	59.54	-20.42	39.13	54	-14.87	AV
Horizontal	10400.077	64.28	-9.30	54.98	68.2	-13.22	PK
Horizontal	10400.077	49.75	-9.30	40.45	54	-13.55	AV
Horizontal	15600.015	60.52	-7.82	52.70	74	-21.30	PK
Horizontal	15600.015	49.85	-7.82	42.03	54	-11.97	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.058	71.47	-20.12	51.35	74	-22.65	PK
Vertical	4739.058	59.58	-20.12	39.45	54	-14.55	AV
Vertical	10480.036	60.15	-9.18	50.97	68.2	-17.23	PK
Vertical	10480.036	49.48	-9.18	40.30	54	-13.70	AV
Vertical	15720.199	64.97	-7.78	57.19	74	-16.81	PK
Vertical	15720.199	49.72	-7.78	41.94	54	-12.06	AV
Horizontal	4739.073	71.60	-20.12	51.48	74	-22.52	PK
Horizontal	4739.073	59.98	-20.12	39.86	54	-14.14	AV
Horizontal	10480.012	61.39	-9.18	52.21	68.2	-15.99	PK
Horizontal	10480.012	49.97	-9.18	40.79	54	-13.21	AV
Horizontal	15720.103	63.38	-7.78	55.60	74	-18.40	PK
Horizontal	15720.103	49.12	-7.78	41.34	54	-12.66	AV

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

Test Mode:	TX(5.1G) - 802.11ac-HT40
------------	--------------------------

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.052	71.41	-20.73	50.68	68.2	-17.52	PK
Vertical	4434.052	59.33	-20.73	38.60	54	-15.40	AV
Vertical	10380.189	64.99	-9.33	55.66	68.2	-12.54	PK
Vertical	10380.189	49.02	-9.33	39.69	54	-14.31	AV
Vertical	15570.129	62.42	-7.83	54.59	74	-19.41	PK
Vertical	15570.129	49.34	-7.83	41.51	54	-12.49	AV
Horizontal	4434.195	71.16	-20.73	50.43	74	-23.57	PK
Horizontal	4434.195	59.73	-20.73	39.00	54	-15.00	AV
Horizontal	10380.005	60.04	-9.33	50.71	68.2	-17.49	PK
Horizontal	10380.005	49.11	-9.33	39.78	54	-14.22	AV
Horizontal	15570.050	64.42	-7.83	56.59	74	-17.41	PK
Horizontal	15570.050	49.08	-7.83	41.25	54	-12.75	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.179	72.99	-20.12	52.87	68.2	-15.33	PK
Vertical	4739.179	59.92	-20.12	39.80	54	-14.20	AV
Vertical	10460.155	60.82	-9.21	51.61	68.2	-16.59	PK
Vertical	10460.155	49.94	-9.21	40.73	54	-13.27	AV
Vertical	15690.090	60.30	-7.79	52.51	74	-21.49	PK
Vertical	15690.090	49.89	-7.79	42.10	54	-11.90	AV
Horizontal	4739.091	73.31	-20.12	53.19	68.2	-15.01	PK
Horizontal	4739.091	59.80	-20.12	39.68	54	-14.32	AV
Horizontal	10460.027	62.50	-9.21	53.29	68.2	-14.91	PK
Horizontal	10460.027	49.70	-9.21	40.49	54	-13.51	AV
Horizontal	15690.079	60.20	-7.79	52.41	74	-21.59	PK
Horizontal	15690.079	49.37	-7.79	41.58	54	-12.42	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
------------	--------------------------

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5210 MHz)-Above 1G							
Vertical	4434.117	72.20	-20.73	51.47	68.2	-16.73	PK
Vertical	4434.117	59.43	-20.73	38.70	54	-15.30	AV
Vertical	10420.149	60.83	-9.27	51.56	68.2	-16.64	PK
Vertical	10420.149	49.89	-9.27	40.62	54	-13.38	AV
Vertical	15630.094	64.04	-7.81	56.23	74	-17.77	PK
Vertical	15630.094	49.77	-7.81	41.96	54	-12.04	AV
Horizontal	4434.048	73.49	-20.73	52.76	68.2	-15.44	PK
Horizontal	4434.048	59.74	-20.73	39.00	54	-15.00	AV
Horizontal	10420.151	64.01	-9.27	54.74	68.2	-13.46	PK
Horizontal	10420.151	49.68	-9.27	40.41	54	-13.59	AV
Horizontal	15630.042	61.73	-7.81	53.92	74	-20.08	PK
Horizontal	15630.042	49.32	-7.81	41.51	54	-12.49	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.

- ☒ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge
- All the modes 802.11a/n/ac has been tested and the worst result 802.11ac recorded as below:

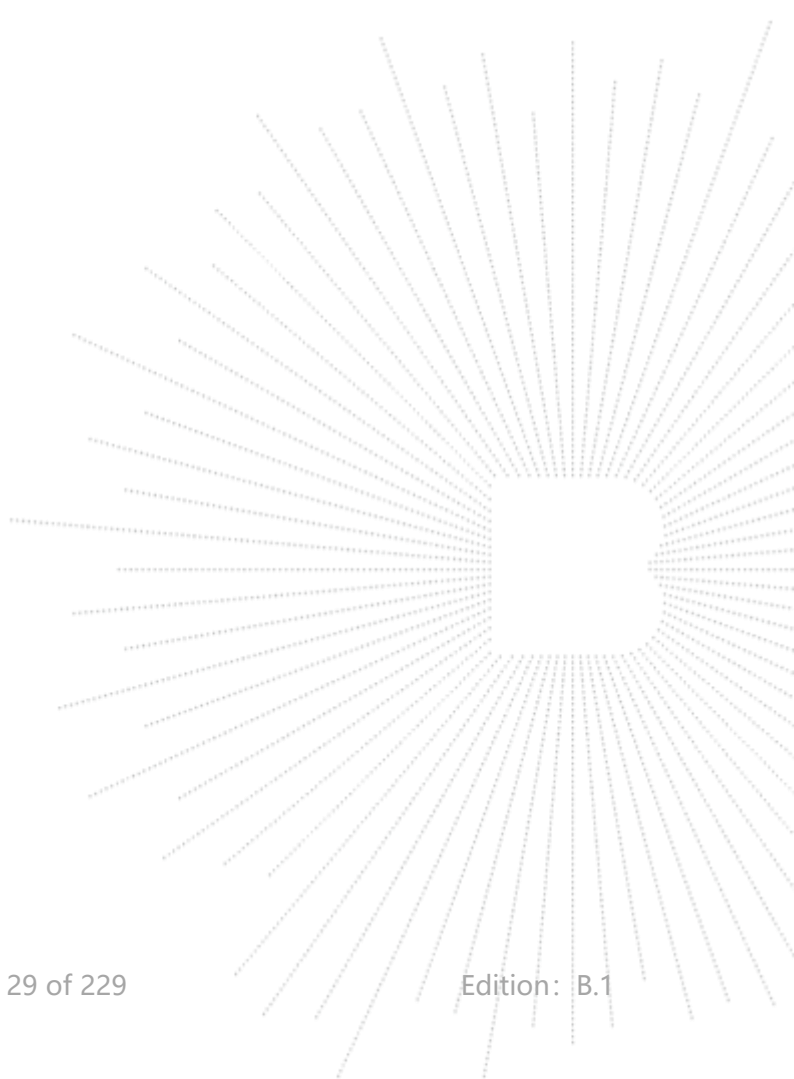
Test mode: 802.11ac Frequency(MHz): 5180

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5149.800	H	64.74	74	46.46	54
5149.250	V	64.12	74	45.42	54

Test mode: 802.11ac Frequency(MHz): 5320

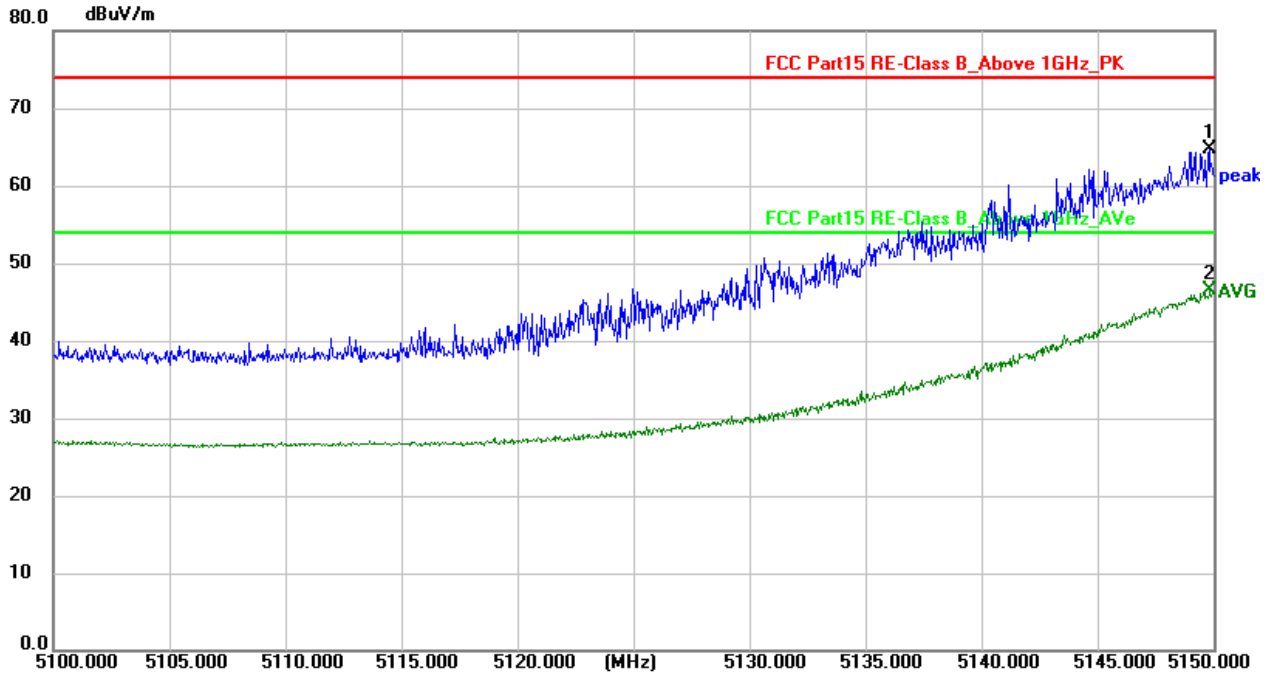
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5360.419	H	57.95	74	46.81	54
5362.181	V	55.28	74	45.68	54

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



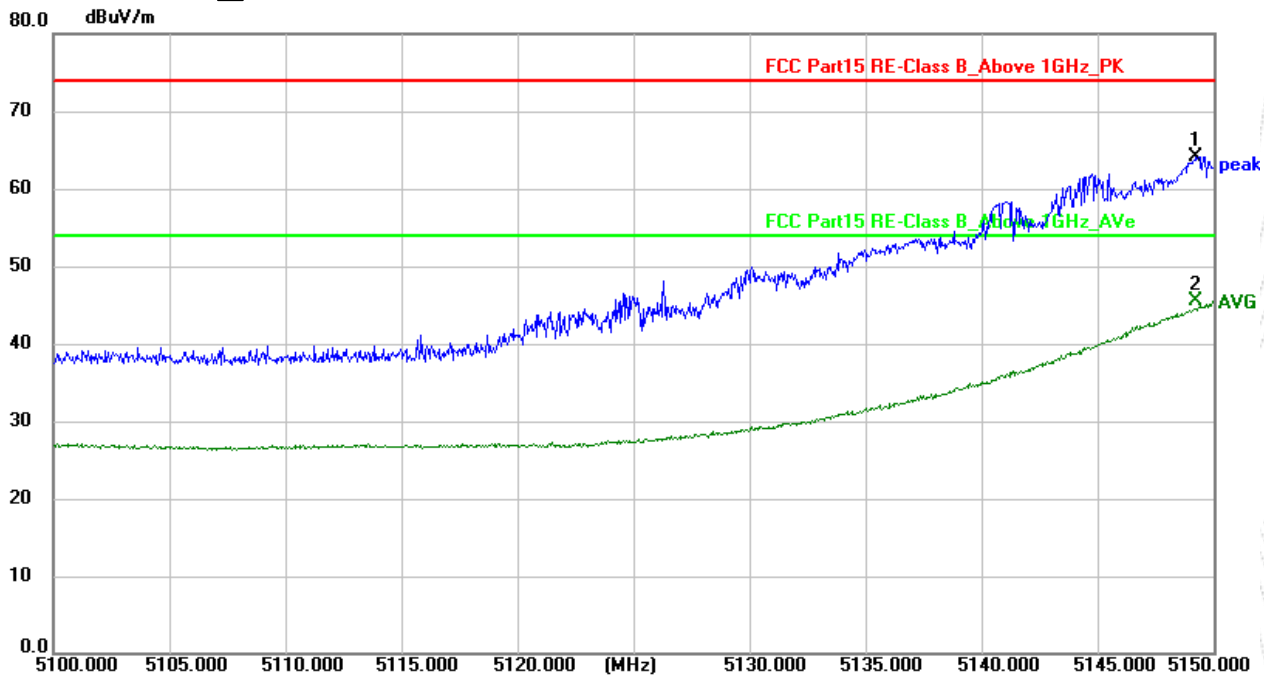
U-NII - 1

Test Model Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)
☒ 802.11ac ☐ 802.11n(HT20) ☐ 802.11n(HT40)
☒ 5180 Ant.Pol H

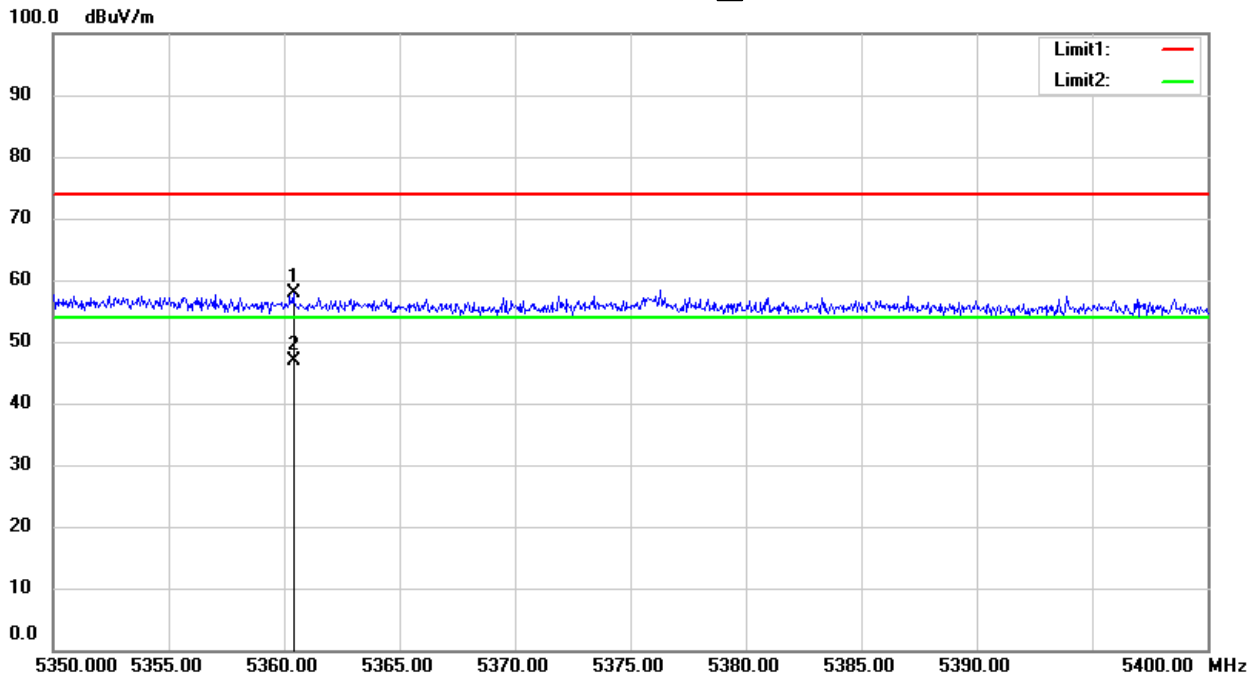


U-NII - 1

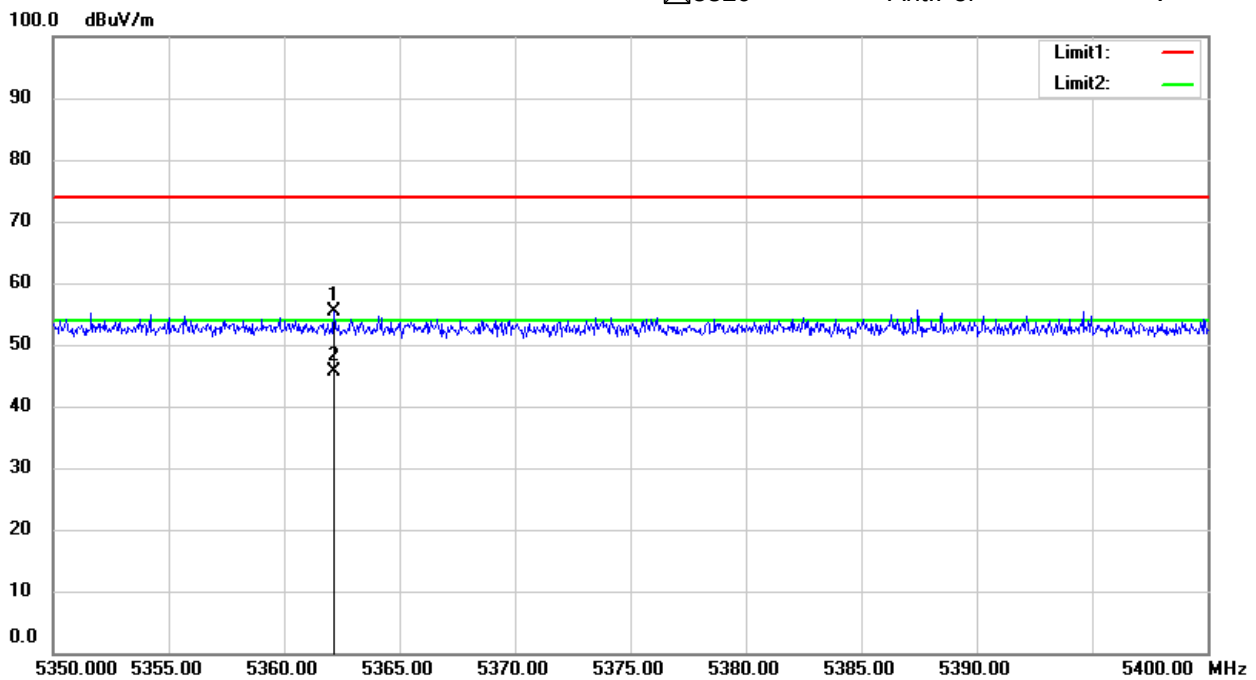
Test Model Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)
☒ 802.11ac ☐ 802.11n(HT20) ☐ 802.11n(HT40)
☒ 5180 Ant.Pol V



U-NII - 1
Test Model Undesirable radiated Spurious Emission in Restricted Band (5350-5460MHz)
☒ 802.11ac ☐ 802.11n(HT20) ☐ 802.11n(HT40)
☒ 5320 Ant. Pol H



U-NII - 1
Test Model Undesirable radiated Spurious Emission in Restricted Band (5350-5460MHz)
☒ 802.11ac ☐ 802.11n(HT20) ☐ 802.11n(HT40)
☒ 5320 Ant. Pol V



Test Mode:	TX(5.3G) - 802.11a
------------	--------------------

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G							
Vertical	4434.137	74.36	-20.73	53.63	68.2	-14.57	PK
Vertical	4434.137	59.95	-20.73	39.22	54	-14.78	AV
Vertical	10520.039	61.56	-9.12	52.44	68.2	-15.76	PK
Vertical	10520.039	49.78	-9.12	40.66	54	-13.34	AV
Vertical	15780.080	62.21	-7.77	54.44	74	-19.56	PK
Vertical	15780.080	49.23	-7.77	41.46	54	-12.54	AV
Horizontal	4434.056	73.30	-20.73	52.57	68.2	-15.63	PK
Horizontal	4434.056	59.37	-20.73	38.64	54	-15.36	AV
Horizontal	10520.110	61.39	-9.12	52.27	68.2	-15.93	PK
Horizontal	10520.110	49.90	-9.12	40.78	54	-13.22	AV
Horizontal	15780.059	62.91	-7.77	55.14	74	-18.86	PK
Horizontal	15780.059	49.62	-7.77	41.85	54	-12.15	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.043	72.01	-20.42	51.59	74	-22.41	PK
Vertical	4592.043	59.25	-20.42	38.84	54	-15.16	AV
Vertical	10560.112	61.27	-9.06	52.21	68.2	-15.99	PK
Vertical	10560.112	49.83	-9.06	40.77	54	-13.23	AV
Vertical	15840.162	61.01	-7.75	53.26	74	-20.74	PK
Vertical	15840.162	49.31	-7.75	41.56	54	-12.44	AV
Horizontal	4592.138	73.81	-20.42	53.39	74	-20.61	PK
Horizontal	4592.138	59.76	-20.42	39.35	54	-14.65	AV
Horizontal	10560.109	63.20	-9.06	54.14	68.2	-14.06	PK
Horizontal	10560.109	49.16	-9.06	40.10	54	-13.90	AV
Horizontal	15840.160	63.14	-7.75	55.39	74	-18.61	PK
Horizontal	15840.160	49.04	-7.75	41.29	54	-12.71	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.099	72.10	-20.12	51.98	74	-22.02	PK
Vertical	4739.099	59.77	-20.12	39.65	54	-14.35	AV
Vertical	10640.138	60.07	-8.94	51.13	68.2	-17.07	PK
Vertical	10640.138	49.37	-8.94	40.43	54	-13.57	AV
Vertical	15960.075	60.77	-7.71	53.06	74	-20.94	PK
Vertical	15960.075	49.32	-7.71	41.61	54	-12.39	AV
Horizontal	4739.086	71.04	-20.12	50.92	74	-23.08	PK
Horizontal	4739.086	59.46	-20.12	39.34	54	-14.66	AV
Horizontal	10640.090	62.67	-8.94	53.73	68.2	-14.47	PK
Horizontal	10640.090	49.58	-8.94	40.64	54	-13.36	AV
Horizontal	15960.157	64.45	-7.71	56.74	74	-17.26	PK
Horizontal	15960.157	49.30	-7.71	41.59	54	-12.41	AV

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

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

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

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

Test Mode:	TX(5.3G) - 802.11n-HT20
------------	-------------------------

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G							
Vertical	4434.136	71.17	-20.73	50.43	68.2	-17.77	PK
Vertical	4434.136	59.15	-20.73	38.41	54	-15.59	AV
Vertical	10520.056	63.53	-9.12	54.41	68.2	-13.79	PK
Vertical	10520.056	49.01	-9.12	39.89	54	-14.11	AV
Vertical	15780.102	61.71	-7.77	53.94	74	-20.06	PK
Vertical	15780.102	49.71	-7.77	41.94	54	-12.06	AV
Horizontal	4434.098	74.25	-20.73	53.52	68.2	-14.68	PK
Horizontal	4434.098	59.94	-20.73	39.20	54	-14.80	AV
Horizontal	10520.151	62.96	-9.12	53.84	68.2	-14.36	PK
Horizontal	10520.151	49.99	-9.12	40.87	54	-13.13	AV
Horizontal	15780.013	61.61	-7.77	53.84	74	-20.16	PK
Horizontal	15780.013	49.96	-7.77	42.19	54	-11.81	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.105	74.45	-20.42	54.04	74	-19.96	PK
Vertical	4592.105	59.29	-20.42	38.87	54	-15.13	AV
Vertical	10560.088	60.36	-9.06	51.30	68.2	-16.90	PK
Vertical	10560.088	49.12	-9.06	40.06	54	-13.94	AV
Vertical	15840.167	61.57	-7.75	53.82	74	-20.18	PK
Vertical	15840.167	49.90	-7.75	42.15	54	-11.85	AV
Horizontal	4592.096	70.74	-20.42	50.33	74	-23.67	PK
Horizontal	4592.096	59.96	-20.42	39.54	54	-14.46	AV
Horizontal	10560.092	61.31	-9.06	52.25	68.2	-15.95	PK
Horizontal	10560.092	49.39	-9.06	40.33	54	-13.67	AV
Horizontal	15840.136	60.91	-7.75	53.16	74	-20.84	PK
Horizontal	15840.136	49.82	-7.75	42.07	54	-11.93	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.154	74.22	-20.12	54.10	74	-19.90	PK
Vertical	4739.154	59.69	-20.12	39.57	54	-14.43	AV
Vertical	10640.130	61.52	-8.94	52.58	68.2	-15.62	PK
Vertical	10640.130	49.46	-8.94	40.52	54	-13.48	AV
Vertical	15960.116	60.63	-7.71	52.92	74	-21.08	PK
Vertical	15960.116	49.99	-7.71	42.28	54	-11.72	AV
Horizontal	4739.113	71.06	-20.12	50.94	74	-23.06	PK
Horizontal	4739.113	59.92	-20.12	39.80	54	-14.20	AV
Horizontal	10640.149	62.97	-8.94	54.03	68.2	-14.17	PK
Horizontal	10640.149	50.00	-8.94	41.06	54	-12.94	AV
Horizontal	15960.135	61.48	-7.71	53.77	74	-20.23	PK
Horizontal	15960.135	49.57	-7.71	41.86	54	-12.14	AV

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

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

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

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

Test Mode:	TX(5.3G) - 802.11n-HT40
------------	-------------------------

Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5270 MHz)-Above 1G							
Vertical	4434.037	72.96	-20.73	52.23	68.2	-15.97	PK
Vertical	4434.037	59.89	-20.73	39.16	54	-14.84	AV
Vertical	10540.041	61.77	-9.09	52.68	68.2	-15.52	PK
Vertical	10540.041	49.68	-9.09	40.59	54	-13.41	AV
Vertical	15810.110	61.13	-7.76	53.37	74	-20.63	PK
Vertical	15810.110	49.09	-7.76	41.33	54	-12.67	AV
Horizontal	4434.156	73.70	-20.73	52.96	74	-21.04	PK
Horizontal	4434.156	59.45	-20.73	38.72	54	-15.28	AV
Horizontal	10540.149	61.49	-9.09	52.40	68.2	-15.80	PK
Horizontal	10540.149	49.10	-9.09	40.01	54	-13.99	AV
Horizontal	15810.116	60.84	-7.76	53.08	74	-20.92	PK
Horizontal	15810.116	49.58	-7.76	41.82	54	-12.18	AV
High Channel (5310 MHz)-Above 1G							
Vertical	4739.056	72.78	-20.12	52.66	68.2	-15.54	PK
Vertical	4739.056	59.97	-20.12	39.85	54	-14.15	AV
Vertical	10620.040	61.50	-8.97	52.53	68.2	-15.67	PK
Vertical	10620.040	49.30	-8.97	40.33	54	-13.67	AV
Vertical	15930.073	60.53	-7.72	52.81	74	-21.19	PK
Vertical	15930.073	49.40	-7.72	41.68	54	-12.32	AV
Horizontal	4739.079	73.15	-20.12	53.03	68.2	-15.17	PK
Horizontal	4739.079	59.73	-20.12	39.61	54	-14.39	AV
Horizontal	10620.017	63.01	-8.97	54.04	68.2	-14.16	PK
Horizontal	10620.017	49.94	-8.97	40.97	54	-13.03	AV
Horizontal	15930.026	61.09	-7.72	53.37	74	-20.63	PK
Horizontal	15930.026	49.34	-7.72	41.62	54	-12.38	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(5.3G) - 802.11ac-HT20
------------	--------------------------

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G							
Vertical	4434.029	71.52	-20.73	50.78	68.2	-17.42	PK
Vertical	4434.029	59.39	-20.73	38.66	54	-15.34	AV
Vertical	10520.120	63.54	-9.12	54.42	68.2	-13.78	PK
Vertical	10520.120	49.27	-9.12	40.15	54	-13.85	AV
Vertical	15780.025	62.12	-7.77	54.35	74	-19.65	PK
Vertical	15780.025	49.71	-7.77	41.94	54	-12.06	AV
Horizontal	4434.042	71.49	-20.73	50.76	68.2	-17.44	PK
Horizontal	4434.042	59.28	-20.73	38.55	54	-15.45	AV
Horizontal	10520.001	64.20	-9.12	55.08	68.2	-13.12	PK
Horizontal	10520.001	49.85	-9.12	40.73	54	-13.27	AV
Horizontal	15780.160	64.93	-7.77	57.16	74	-16.84	PK
Horizontal	15780.160	49.48	-7.77	41.71	54	-12.29	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.081	72.43	-20.42	52.02	74	-21.98	PK
Vertical	4592.081	59.87	-20.42	39.45	54	-14.55	AV
Vertical	10560.020	62.69	-9.06	53.63	68.2	-14.57	PK
Vertical	10560.020	49.47	-9.06	40.41	54	-13.59	AV
Vertical	15840.047	60.52	-7.75	52.77	74	-21.23	PK
Vertical	15840.047	49.78	-7.75	42.03	54	-11.97	AV
Horizontal	4592.045	70.02	-20.42	49.60	74	-24.40	PK
Horizontal	4592.045	59.25	-20.42	38.83	54	-15.17	AV
Horizontal	10560.161	61.96	-9.06	52.90	68.2	-15.30	PK
Horizontal	10560.161	49.65	-9.06	40.59	54	-13.41	AV
Horizontal	15840.169	64.76	-7.75	57.01	74	-16.99	PK
Horizontal	15840.169	49.09	-7.75	41.34	54	-12.66	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.016	73.30	-20.12	53.18	74	-20.82	PK
Vertical	4739.016	59.93	-20.12	39.81	54	-14.19	AV
Vertical	10640.161	63.46	-8.94	54.52	68.2	-13.68	PK
Vertical	10640.161	49.67	-8.94	40.73	54	-13.27	AV
Vertical	15960.172	63.10	-7.71	55.39	74	-18.61	PK
Vertical	15960.172	49.89	-7.71	42.18	54	-11.82	AV
Horizontal	4739.118	73.98	-20.12	53.86	74	-20.14	PK
Horizontal	4739.118	59.71	-20.12	39.59	54	-14.41	AV
Horizontal	10640.145	63.25	-8.94	54.31	68.2	-13.89	PK
Horizontal	10640.145	49.04	-8.94	40.10	54	-13.90	AV
Horizontal	15960.029	61.44	-7.71	53.73	74	-20.27	PK
Horizontal	15960.029	49.87	-7.71	42.16	54	-11.84	AV

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

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

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

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

Test Mode:	TX(5.3G) - 802.11ac-HT40
------------	--------------------------

Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5270 MHz)-Above 1G							
Vertical	4434.059	74.42	-20.73	53.69	68.2	-14.51	PK
Vertical	4434.059	59.19	-20.73	38.45	54	-15.55	AV
Vertical	10540.143	61.00	-9.09	51.91	68.2	-16.29	PK
Vertical	10540.143	49.76	-9.09	40.67	54	-13.33	AV
Vertical	15810.085	64.67	-7.76	56.91	74	-17.09	PK
Vertical	15810.085	49.19	-7.76	41.43	54	-12.57	AV
Horizontal	4434.019	71.06	-20.73	50.32	74	-23.68	PK
Horizontal	4434.019	59.78	-20.73	39.04	54	-14.96	AV
Horizontal	10540.057	60.11	-9.09	51.02	68.2	-17.18	PK
Horizontal	10540.057	49.55	-9.09	40.46	54	-13.54	AV
Horizontal	15810.012	62.33	-7.76	54.57	74	-19.43	PK
Horizontal	15810.012	49.37	-7.76	41.61	54	-12.39	AV
High Channel (5310 MHz)-Above 1G							
Vertical	4739.134	71.14	-20.12	51.01	68.2	-17.19	PK
Vertical	4739.134	59.03	-20.12	38.91	54	-15.09	AV
Vertical	10620.111	62.07	-8.97	53.10	68.2	-15.10	PK
Vertical	10620.111	49.27	-8.97	40.30	54	-13.70	AV
Vertical	15930.049	61.04	-7.72	53.32	74	-20.68	PK
Vertical	15930.049	49.91	-7.72	42.19	54	-11.81	AV
Horizontal	4739.155	71.74	-20.12	51.61	68.2	-16.59	PK
Horizontal	4739.155	59.25	-20.12	39.13	54	-14.87	AV
Horizontal	10620.040	62.00	-8.97	53.03	68.2	-15.17	PK
Horizontal	10620.040	49.87	-8.97	40.90	54	-13.10	AV
Horizontal	15930.024	64.43	-7.72	56.71	74	-17.29	PK
Horizontal	15930.024	49.56	-7.72	41.84	54	-12.16	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(5.3G) - 802.11ac-HT80
------------	--------------------------

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5290 MHz)-Above 1G							
Vertical	4434.015	73.00	-20.73	52.27	68.2	-15.93	PK
Vertical	4434.015	59.69	-20.73	38.96	54	-15.04	AV
Vertical	10580.089	64.15	-9.03	55.12	68.2	-13.08	PK
Vertical	10580.089	49.52	-9.03	40.49	54	-13.51	AV
Vertical	15870.132	64.48	-7.74	56.74	74	-17.26	PK
Vertical	15870.132	49.14	-7.74	41.40	54	-12.60	AV
Horizontal	4434.065	74.00	-20.73	53.27	68.2	-14.93	PK
Horizontal	4434.065	59.50	-20.73	38.76	54	-15.24	AV
Horizontal	10580.111	60.49	-9.03	51.46	68.2	-16.74	PK
Horizontal	10580.111	49.07	-9.03	40.04	54	-13.96	AV
Horizontal	15870.162	61.99	-7.74	54.25	74	-19.75	PK
Horizontal	15870.162	49.48	-7.74	41.74	54	-12.26	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(5.6G) - 802.11a
------------	--------------------

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G							
Vertical	4434.129	71.62	-20.73	50.88	68.2	-17.32	PK
Vertical	4434.129	59.97	-20.73	39.24	54	-14.76	AV
Vertical	11000.001	63.58	-8.40	55.18	68.2	-13.02	PK
Vertical	11000.001	49.14	-8.40	40.74	54	-13.26	AV
Vertical	16500.185	63.03	-6.09	56.94	74	-17.06	PK
Vertical	16500.185	49.63	-6.09	43.54	54	-10.46	AV
Horizontal	4434.121	72.26	-20.73	51.53	68.2	-16.67	PK
Horizontal	4434.121	59.16	-20.73	38.43	54	-15.57	AV
Horizontal	11000.023	60.36	-8.40	51.96	68.2	-16.24	PK
Horizontal	11000.023	49.24	-8.40	40.84	54	-13.16	AV
Horizontal	16500.167	60.24	-6.09	54.15	74	-19.85	PK
Horizontal	16500.167	49.82	-6.09	43.73	54	-10.27	AV
middle Channel (5580 MHz)-Above 1G							
Vertical	4592.125	70.51	-20.42	50.09	74	-23.91	PK
Vertical	4592.125	59.92	-20.42	39.50	54	-14.50	AV
Vertical	11160.026	62.75	-8.53	54.22	68.2	-13.98	PK
Vertical	11160.026	49.22	-8.53	40.69	54	-13.31	AV
Vertical	16740.022	63.49	-5.31	58.18	74	-15.82	PK
Vertical	16740.022	49.35	-5.31	44.04	54	-9.96	AV
Horizontal	4592.113	73.97	-20.42	53.55	74	-20.45	PK
Horizontal	4592.113	59.36	-20.42	38.94	54	-15.06	AV
Horizontal	11160.138	62.28	-8.53	53.75	68.2	-14.45	PK
Horizontal	11160.138	49.95	-8.53	41.42	54	-12.58	AV
Horizontal	16740.044	61.59	-5.31	56.28	74	-17.72	PK
Horizontal	16740.044	49.17	-5.31	43.86	54	-10.14	AV
High Channel (5700 MHz)-Above 1G							
Vertical	4739.118	70.46	-20.12	50.34	74	-23.66	PK
Vertical	4739.118	59.82	-20.12	39.70	54	-14.30	AV
Vertical	11400.106	64.88	-8.72	56.16	68.2	-12.04	PK
Vertical	11400.106	49.32	-8.72	40.60	54	-13.40	AV
Vertical	17100.042	64.02	-3.92	60.10	74	-13.90	PK
Vertical	17100.042	49.19	-3.92	45.27	54	-8.73	AV
Horizontal	4739.180	71.77	-20.12	51.65	74	-22.35	PK
Horizontal	4739.180	59.69	-20.12	39.57	54	-14.43	AV
Horizontal	11400.092	61.83	-8.72	53.11	68.2	-15.09	PK
Horizontal	11400.092	49.05	-8.72	40.33	54	-13.67	AV
Horizontal	17100.043	60.57	-3.92	56.65	74	-17.35	PK
Horizontal	17100.043	49.93	-3.92	46.01	54	-7.99	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(5.6G) - 802.11n-HT20
------------	-------------------------

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G							
Vertical	4434.194	72.71	-20.73	51.98	68.2	-16.22	PK
Vertical	4434.194	59.33	-20.73	38.59	54	-15.41	AV
Vertical	11000.000	60.44	-8.40	52.04	68.2	-16.16	PK
Vertical	11000.000	49.36	-8.40	40.96	54	-13.04	AV
Vertical	16500.180	63.34	-6.09	57.25	74	-16.75	PK
Vertical	16500.180	49.41	-6.09	43.32	54	-10.68	AV
Horizontal	4434.059	71.72	-20.73	50.99	68.2	-17.21	PK
Horizontal	4434.059	59.15	-20.73	38.42	54	-15.58	AV
Horizontal	11000.141	62.06	-8.40	53.66	68.2	-14.54	PK
Horizontal	11000.141	49.27	-8.40	40.87	54	-13.13	AV
Horizontal	16500.086	62.38	-6.09	56.29	74	-17.71	PK
Horizontal	16500.086	49.80	-6.09	43.71	54	-10.29	AV
middle Channel (5580 MHz)-Above 1G							
Vertical	4592.059	73.55	-20.42	53.13	74	-20.87	PK
Vertical	4592.059	59.89	-20.42	39.48	54	-14.52	AV
Vertical	11160.122	63.70	-8.53	55.17	68.2	-13.03	PK
Vertical	11160.122	49.13	-8.53	40.60	54	-13.40	AV
Vertical	16740.010	63.05	-5.31	57.74	74	-16.26	PK
Vertical	16740.010	49.24	-5.31	43.93	54	-10.07	AV
Horizontal	4592.032	72.58	-20.42	52.17	74	-21.83	PK
Horizontal	4592.032	59.29	-20.42	38.87	54	-15.13	AV
Horizontal	11160.051	64.50	-8.53	55.97	68.2	-12.23	PK
Horizontal	11160.051	49.76	-8.53	41.23	54	-12.77	AV
Horizontal	16740.025	62.43	-5.31	57.12	74	-16.88	PK
Horizontal	16740.025	49.73	-5.31	44.42	54	-9.58	AV
High Channel (5700 MHz)-Above 1G							
Vertical	4739.086	72.20	-20.12	52.08	74	-21.92	PK
Vertical	4739.086	59.39	-20.12	39.26	54	-14.74	AV
Vertical	11400.094	64.34	-8.72	55.62	68.2	-12.58	PK
Vertical	11400.094	49.40	-8.72	40.68	54	-13.32	AV
Vertical	17100.101	60.66	-3.92	56.74	74	-17.26	PK
Vertical	17100.101	49.47	-3.92	45.55	54	-8.45	AV
Horizontal	4739.002	74.95	-20.12	54.83	74	-19.17	PK
Horizontal	4739.002	59.04	-20.12	38.92	54	-15.08	AV
Horizontal	11400.009	63.84	-8.72	55.12	68.2	-13.08	PK
Horizontal	11400.009	49.52	-8.72	40.80	54	-13.20	AV
Horizontal	17100.198	60.09	-3.92	56.17	74	-17.83	PK
Horizontal	17100.198	49.46	-3.92	45.54	54	-8.46	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(5.6G) - 802.11n-HT40
------------	-------------------------

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5510 MHz)-Above 1G							
Vertical	4434.191	60.10	-20.73	39.37	68.2	-28.83	PK
Vertical	4434.191	43.62	-20.73	22.89	54	-31.11	AV
Vertical	11020.112	63.52	-8.42	55.10	68.2	-13.10	PK
Vertical	11020.112	43.18	-8.42	34.76	54	-19.24	AV
Vertical	16530.101	60.27	-5.99	54.28	74	-19.72	PK
Vertical	16530.101	43.23	-5.99	37.24	54	-16.76	AV
Horizontal	4434.028	64.31	-20.73	43.58	74	-30.42	PK
Horizontal	4434.028	43.59	-20.73	22.86	54	-31.14	AV
Horizontal	11020.028	52.56	-8.42	44.14	68.2	-24.06	PK
Horizontal	11020.028	41.42	-8.42	33.00	54	-21.00	AV
Horizontal	16530.169	50.00	-5.99	44.01	74	-29.99	PK
Horizontal	16530.169	41.72	-5.99	35.73	54	-18.27	AV
middle Channel (5550 MHz)-Above 1G							
Vertical	4592.072	63.78	-20.42	43.36	74	-30.64	PK
Vertical	4592.072	43.65	-20.42	23.24	54	-30.76	AV
Vertical	11100.108	60.28	-8.40	51.88	68.2	-16.32	PK
Vertical	11100.108	43.13	-8.40	34.73	54	-19.27	AV
Vertical	16650.001	63.00	-5.60	57.40	74	-16.60	PK
Vertical	16650.001	43.95	-5.60	38.35	54	-15.65	AV
Horizontal	4592.151	60.31	-20.42	39.89	74	-34.11	PK
Horizontal	4592.151	43.89	-20.42	23.48	54	-30.52	AV
Horizontal	11100.186	51.06	-8.40	42.66	68.2	-25.54	PK
Horizontal	11100.186	42.19	-8.40	33.79	54	-20.21	AV
Horizontal	16650.106	54.67	-5.60	49.07	74	-24.93	PK
Horizontal	16650.106	42.13	-5.60	36.53	54	-17.47	AV
High Channel (5670 MHz)-Above 1G							
Vertical	4739.106	61.28	-20.12	41.16	68.2	-27.04	PK
Vertical	4739.106	43.57	-20.12	23.45	54	-30.55	AV
Vertical	11340.108	60.67	-8.67	52.00	68.2	-16.20	PK
Vertical	11340.108	43.25	-8.67	34.58	54	-19.42	AV
Vertical	17010.158	60.89	-4.41	56.48	74	-17.52	PK
Vertical	17010.158	43.23	-4.41	38.82	54	-15.18	AV
Horizontal	4739.038	62.81	-20.12	42.69	68.2	-25.51	PK
Horizontal	4739.038	43.67	-20.12	23.55	54	-30.45	AV
Horizontal	11340.081	51.18	-8.67	42.51	68.2	-25.69	PK
Horizontal	11340.081	42.06	-8.67	33.39	54	-20.61	AV
Horizontal	17010.038	50.47	-4.41	46.06	74	-27.94	PK
Horizontal	17010.038	43.99	-4.41	39.58	54	-14.42	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(5.6G) - 802.11ac-HT20
------------	--------------------------

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G							
Vertical	4434.006	71.93	-20.73	51.20	68.2	-17.00	PK
Vertical	4434.006	59.58	-20.73	38.85	54	-15.15	AV
Vertical	11000.134	62.42	-8.40	54.02	68.2	-14.18	PK
Vertical	11000.134	49.44	-8.40	41.04	54	-12.96	AV
Vertical	16500.011	60.12	-6.09	54.03	74	-19.97	PK
Vertical	16500.011	49.86	-6.09	43.77	54	-10.23	AV
Horizontal	4434.128	72.85	-20.73	52.12	68.2	-16.08	PK
Horizontal	4434.128	59.60	-20.73	38.87	54	-15.13	AV
Horizontal	11000.031	60.28	-8.40	51.88	68.2	-16.32	PK
Horizontal	11000.031	49.46	-8.40	41.06	54	-12.94	AV
Horizontal	16500.178	63.91	-6.09	57.82	74	-16.18	PK
Horizontal	16500.178	49.52	-6.09	43.43	54	-10.57	AV
middle Channel (5580 MHz)-Above 1G							
Vertical	4592.193	74.09	-20.42	53.67	74	-20.33	PK
Vertical	4592.193	59.02	-20.42	38.61	54	-15.39	AV
Vertical	11160.058	60.31	-8.53	51.78	68.2	-16.42	PK
Vertical	11160.058	49.71	-8.53	41.18	54	-12.82	AV
Vertical	16740.136	61.32	-5.31	56.01	74	-17.99	PK
Vertical	16740.136	49.36	-5.31	44.05	54	-9.95	AV
Horizontal	4592.032	72.34	-20.42	51.92	74	-22.08	PK
Horizontal	4592.032	59.85	-20.42	39.43	54	-14.57	AV
Horizontal	11160.184	64.20	-8.53	55.67	68.2	-12.53	PK
Horizontal	11160.184	49.37	-8.53	40.84	54	-13.16	AV
Horizontal	16740.132	64.58	-5.31	59.27	74	-14.73	PK
Horizontal	16740.132	49.12	-5.31	43.81	54	-10.19	AV
High Channel (5700 MHz)-Above 1G							
Vertical	4739.097	73.67	-20.12	53.55	74	-20.45	PK
Vertical	4739.097	59.12	-20.12	39.00	54	-15.00	AV
Vertical	11400.111	61.03	-8.72	52.31	68.2	-15.89	PK
Vertical	11400.111	49.64	-8.72	40.92	54	-13.08	AV
Vertical	17100.105	62.29	-3.92	58.37	74	-15.63	PK
Vertical	17100.105	49.03	-3.92	45.11	54	-8.89	AV
Horizontal	4739.182	71.89	-20.12	51.77	74	-22.23	PK
Horizontal	4739.182	59.09	-20.12	38.97	54	-15.03	AV
Horizontal	11400.145	60.53	-8.72	51.81	68.2	-16.39	PK
Horizontal	11400.145	49.88	-8.72	41.16	54	-12.84	AV
Horizontal	17100.184	62.74	-3.92	58.82	74	-15.18	PK
Horizontal	17100.184	49.42	-3.92	45.50	54	-8.50	AV

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

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

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

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

Test Mode:	TX(5.6G) - 802.11ac-HT40
------------	--------------------------

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5510 MHz)-Above 1G							
Vertical	4434.013	64.54	-20.73	43.81	68.2	-24.39	PK
Vertical	4434.013	43.21	-20.73	22.47	54	-31.53	AV
Vertical	11020.141	63.81	-8.42	55.39	68.2	-12.81	PK
Vertical	11020.141	43.27	-8.42	34.85	54	-19.15	AV
Vertical	16530.117	61.21	-5.99	55.22	74	-18.78	PK
Vertical	16530.117	43.80	-5.99	37.81	54	-16.19	AV
Horizontal	4434.102	64.30	-20.73	43.57	74	-30.43	PK
Horizontal	4434.102	43.77	-20.73	23.04	54	-30.96	AV
Horizontal	11020.136	53.11	-8.42	44.69	68.2	-23.51	PK
Horizontal	11020.136	44.32	-8.42	35.90	54	-18.10	AV
Horizontal	16530.011	52.45	-5.99	46.46	74	-27.54	PK
Horizontal	16530.011	44.78	-5.99	38.79	54	-15.21	AV
middle Channel (5550 MHz)-Above 1G							
Vertical	4592.096	64.91	-20.42	44.50	74	-29.50	PK
Vertical	4592.096	43.08	-20.42	22.66	54	-31.34	AV
Vertical	11100.056	61.63	-8.40	53.23	68.2	-14.97	PK
Vertical	11100.056	43.33	-8.40	34.93	54	-19.07	AV
Vertical	16650.189	63.28	-5.60	57.68	74	-16.32	PK
Vertical	16650.189	43.47	-5.60	37.87	54	-16.13	AV
Horizontal	4592.109	62.53	-20.42	42.11	74	-31.89	PK
Horizontal	4592.109	43.32	-20.42	22.91	54	-31.09	AV
Horizontal	11100.035	52.83	-8.40	44.43	68.2	-23.77	PK
Horizontal	11100.035	43.53	-8.40	35.13	54	-18.87	AV
Horizontal	16650.074	53.78	-5.60	48.18	74	-25.82	PK
Horizontal	16650.074	43.26	-5.60	37.66	54	-16.34	AV
High Channel (5670 MHz)-Above 1G							
Vertical	4739.133	61.17	-20.12	41.05	68.2	-27.15	PK
Vertical	4739.133	43.29	-20.12	23.17	54	-30.83	AV
Vertical	11340.049	63.40	-8.67	54.73	68.2	-13.47	PK
Vertical	11340.049	43.89	-8.67	35.22	54	-18.78	AV
Vertical	17010.083	63.49	-4.41	59.08	74	-14.92	PK
Vertical	17010.083	43.48	-4.41	39.07	54	-14.93	AV
Horizontal	4739.037	62.08	-20.12	41.96	68.2	-26.24	PK
Horizontal	4739.037	43.01	-20.12	22.88	54	-31.12	AV
Horizontal	11340.190	54.80	-8.67	46.13	68.2	-22.07	PK
Horizontal	11340.190	41.68	-8.67	33.01	54	-20.99	AV
Horizontal	17010.049	54.31	-4.41	49.90	74	-24.10	PK
Horizontal	17010.049	43.59	-4.41	39.18	54	-14.82	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(5.6G) - 802.11ac-HT80
------------	--------------------------

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5530 MHz)-Above 1G							
Vertical	4434.068	64.65	-20.73	43.92	68.2	-24.28	PK
Vertical	4434.068	43.61	-20.73	22.88	54	-31.12	AV
Vertical	11060.112	61.62	-8.45	53.17	68.2	-15.03	PK
Vertical	11060.112	43.78	-8.45	35.33	54	-18.67	AV
Vertical	16590.083	60.27	-5.79	54.48	74	-19.52	PK
Vertical	16590.083	43.33	-5.79	37.54	54	-16.46	AV
Horizontal	4434.115	64.95	-20.73	44.22	68.2	-23.98	PK
Horizontal	4434.115	43.77	-20.73	23.04	54	-30.96	AV
Horizontal	11060.085	51.44	-8.45	42.99	68.2	-25.21	PK
Horizontal	11060.085	44.63	-8.45	36.18	54	-17.82	AV
Horizontal	16590.035	52.04	-5.79	46.25	74	-27.75	PK
Horizontal	16590.035	41.69	-5.79	35.90	54	-18.10	AV

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

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

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

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

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

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.041	74.28	-20.24	54.04	74	-19.96	PK
Vertical	4679.041	59.55	-20.24	39.30	54	-14.70	AV
Vertical	11490.002	62.14	-8.79	53.35	68.2	-14.85	PK
Vertical	11490.002	49.29	-8.79	40.50	54	-13.50	AV
Vertical	17235.123	58.35	-3.18	55.17	68.2	-13.03	PK
Vertical	17235.123	44.97	-3.18	41.79	54	-12.21	AV
Horizontal	4679.041	70.43	-20.73	49.70	74	-24.30	PK
Horizontal	4679.041	59.85	-20.73	39.12	54	-14.88	AV
Horizontal	11490.014	64.05	-8.79	55.26	68.2	-12.94	PK
Horizontal	11490.014	49.50	-8.79	40.71	54	-13.29	AV
Horizontal	17235.197	58.07	-3.18	54.89	68.2	-13.31	PK
Horizontal	17235.197	44.73	-3.18	41.55	54	-12.45	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.008	71.93	-20.42	51.51	74	-22.49	PK
Vertical	4592.008	59.23	-20.42	38.82	54	-15.18	AV
Vertical	11570.060	63.87	-8.86	55.01	68.2	-13.19	PK
Vertical	11570.060	49.46	-8.86	40.60	54	-13.40	AV
Vertical	17355.175	56.08	-2.52	53.56	68.2	-14.64	PK
Vertical	17355.175	44.51	-2.52	41.99	54	-12.01	AV
Horizontal	4592.010	73.72	-20.42	53.30	74	-20.70	PK
Horizontal	4592.010	59.80	-20.42	39.39	54	-14.61	AV
Horizontal	11570.091	64.38	-8.86	55.52	68.2	-12.68	PK
Horizontal	11570.091	49.42	-8.86	40.56	54	-13.44	AV
Horizontal	17355.155	56.00	-2.52	53.48	68.2	-14.72	PK
Horizontal	17355.155	44.83	-2.52	42.31	54	-11.69	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.039	72.89	-18.93	53.96	68.2	-14.24	PK
Vertical	6039.039	59.74	-18.93	40.81	54	-13.19	AV
Vertical	11650.103	62.61	-8.92	53.69	74	-20.31	PK
Vertical	11650.103	49.74	-8.92	40.82	54	-13.18	AV
Vertical	17475.168	55.30	-1.86	53.44	68.2	-14.76	PK
Vertical	17475.168	44.24	-1.86	42.38	54	-11.62	AV
Horizontal	6039.151	72.85	-18.93	53.91	68.2	-14.29	PK
Horizontal	6039.151	59.72	-18.93	40.79	54	-13.21	AV
Horizontal	11650.015	60.11	-8.92	51.19	74	-22.81	PK
Horizontal	11650.015	49.76	-8.92	40.84	54	-13.16	AV
Horizontal	17475.121	55.17	-1.86	53.31	68.2	-14.89	PK
Horizontal	17475.121	44.50	-1.86	42.64	54	-11.36	AV

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

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

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

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

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

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.156	70.85	-20.24	50.61	74	-23.39	PK
Vertical	4679.156	59.55	-20.24	39.31	54	-14.69	AV
Vertical	11490.046	63.69	-8.79	54.90	68.2	-13.30	PK
Vertical	11490.046	49.06	-8.79	40.27	54	-13.73	AV
Vertical	17235.015	58.16	-3.18	54.98	68.2	-13.22	PK
Vertical	17235.015	44.17	-3.18	40.99	54	-13.01	AV
Horizontal	4679.179	70.89	-20.24	50.65	74	-23.35	PK
Horizontal	4679.179	59.24	-20.24	39.00	54	-15.00	AV
Horizontal	11490.102	60.75	-8.79	51.96	68.2	-16.24	PK
Horizontal	11490.102	49.93	-8.79	41.14	54	-12.86	AV
Horizontal	17235.166	56.73	-3.18	53.55	68.2	-14.65	PK
Horizontal	17235.166	44.10	-3.18	40.92	54	-13.08	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.061	70.25	-20.42	49.84	74	-24.16	PK
Vertical	4592.061	59.67	-20.42	39.26	54	-14.74	AV
Vertical	11570.010	62.24	-8.86	53.38	68.2	-14.82	PK
Vertical	11570.010	49.95	-8.86	41.09	54	-12.91	AV
Vertical	17355.049	55.91	-2.52	53.39	68.2	-14.81	PK
Vertical	17355.049	44.24	-2.52	41.72	54	-12.28	AV
Horizontal	4592.115	74.78	-20.42	54.36	74	-19.64	PK
Horizontal	4592.115	59.53	-20.42	39.11	54	-14.89	AV
Horizontal	11570.095	60.82	-8.86	51.96	68.2	-16.24	PK
Horizontal	11570.095	49.25	-8.86	40.39	54	-13.61	AV
Horizontal	17355.053	56.32	-2.52	53.80	68.2	-14.40	PK
Horizontal	17355.053	44.77	-2.52	42.25	54	-11.75	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.131	74.91	-18.93	55.98	68.2	-12.22	PK
Vertical	6039.131	59.08	-18.93	40.15	54	-13.85	AV
Vertical	11650.065	64.38	-8.92	55.46	74	-18.54	PK
Vertical	11650.065	49.43	-8.92	40.51	54	-13.49	AV
Vertical	17475.157	59.84	-1.86	57.98	68.2	-10.22	PK
Vertical	17475.157	44.61	-1.86	42.75	54	-11.25	AV
Horizontal	6039.176	72.01	-18.93	53.08	68.2	-15.12	PK
Horizontal	6039.176	59.95	-18.93	41.02	54	-12.98	AV
Horizontal	11650.115	61.05	-8.92	52.13	74	-21.87	PK
Horizontal	11650.115	49.30	-8.92	40.38	54	-13.62	AV
Horizontal	17475.156	57.84	-1.86	55.98	68.2	-12.22	PK
Horizontal	17475.156	44.22	-1.86	42.36	54	-11.64	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(5.8G) - 802.11n-HT40
------------	-------------------------

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBUV/m)	(dB)	(dBUV/m)	(dBUV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.036	70.80	-20.24	50.55	74	-23.45	PK
Vertical	4679.036	59.89	-20.24	39.65	54	-14.35	AV
Vertical	11510.018	64.82	-8.81	56.01	74	-17.99	PK
Vertical	11510.018	49.28	-8.81	40.47	54	-13.53	AV
Vertical	17265.196	56.07	-3.01	53.06	68.2	-15.14	PK
Vertical	17265.196	44.11	-3.01	41.10	54	-12.90	AV
Horizontal	4679.136	72.33	-20.24	52.09	74	-21.91	PK
Horizontal	4679.136	59.44	-20.24	39.20	54	-14.80	AV
Horizontal	11510.046	64.35	-8.81	55.54	74	-18.46	PK
Horizontal	11510.046	49.78	-8.81	40.97	54	-13.03	AV
Horizontal	17265.132	57.24	-3.01	54.23	68.2	-13.97	PK
Horizontal	17265.132	44.77	-3.01	41.76	54	-12.24	AV
High Channel (5795 MHz)-Above 1G							
Vertical	6039.136	74.09	-18.93	55.16	68.2	-13.04	PK
Vertical	6039.136	59.16	-18.93	40.23	54	-13.77	AV
Vertical	11590.111	61.60	-8.87	52.73	74	-21.27	PK
Vertical	11590.111	49.77	-8.87	40.90	54	-13.10	AV
Vertical	17385.102	56.90	-2.35	54.55	68.2	-13.65	PK
Vertical	17385.102	44.30	-2.35	41.95	54	-12.05	AV
Horizontal	6039.066	74.73	-18.93	55.80	68.2	-12.40	PK
Horizontal	6039.066	59.66	-18.93	40.73	54	-13.27	AV
Horizontal	11590.180	64.49	-8.87	55.62	74	-18.38	PK
Horizontal	11590.180	49.51	-8.87	40.64	54	-13.36	AV
Horizontal	17385.126	58.78	-2.35	56.43	68.2	-11.77	PK
Horizontal	17385.126	44.78	-2.35	42.43	54	-11.57	AV

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

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

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

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

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

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.035	73.13	-20.24	52.89	74	-21.11	PK
Vertical	4679.035	59.01	-20.24	38.77	54	-15.23	AV
Vertical	11490.086	63.06	-8.79	54.27	68.2	-13.93	PK
Vertical	11490.086	49.08	-8.79	40.29	54	-13.71	AV
Vertical	17235.149	56.46	-3.18	53.28	68.2	-14.92	PK
Vertical	17235.149	44.54	-3.18	41.36	54	-12.64	AV
Horizontal	4679.130	73.72	-20.73	52.99	74	-21.01	PK
Horizontal	4679.130	59.60	-20.73	38.87	54	-15.13	AV
Horizontal	11490.117	60.88	-8.79	52.09	68.2	-16.11	PK
Horizontal	11490.117	49.51	-8.79	40.72	54	-13.28	AV
Horizontal	17235.055	57.77	-3.18	54.59	68.2	-13.61	PK
Horizontal	17235.055	44.13	-3.18	40.95	54	-13.05	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.076	72.88	-20.42	52.46	74	-21.54	PK
Vertical	4592.076	59.55	-20.42	39.14	54	-14.86	AV
Vertical	11570.191	63.30	-8.86	54.44	68.2	-13.76	PK
Vertical	11570.191	49.55	-8.86	40.69	54	-13.31	AV
Vertical	17355.053	55.01	-2.52	52.49	68.2	-15.71	PK
Vertical	17355.053	44.10	-2.52	41.58	54	-12.42	AV
Horizontal	4592.145	73.67	-20.42	53.26	74	-20.74	PK
Horizontal	4592.145	59.11	-20.42	38.69	54	-15.31	AV
Horizontal	11570.177	64.14	-8.86	55.28	68.2	-12.92	PK
Horizontal	11570.177	49.82	-8.86	40.96	54	-13.04	AV
Horizontal	17355.047	57.23	-2.52	54.71	68.2	-13.49	PK
Horizontal	17355.047	44.55	-2.52	42.03	54	-11.97	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.043	73.64	-18.93	54.71	68.2	-13.49	PK
Vertical	6039.043	59.72	-18.93	40.79	54	-13.21	AV
Vertical	11650.182	64.35	-8.92	55.43	74	-18.57	PK
Vertical	11650.182	49.41	-8.92	40.49	54	-13.51	AV
Vertical	17475.077	59.57	-1.86	57.71	68.2	-10.49	PK
Vertical	17475.077	44.14	-1.86	42.28	54	-11.72	AV
Horizontal	6039.061	74.76	-18.93	55.82	68.2	-12.38	PK
Horizontal	6039.061	59.11	-18.93	40.17	54	-13.83	AV
Horizontal	11650.130	63.80	-8.92	54.88	74	-19.12	PK
Horizontal	11650.130	49.63	-8.92	40.71	54	-13.29	AV
Horizontal	17475.001	58.82	-1.86	56.96	68.2	-11.24	PK
Horizontal	17475.001	44.48	-1.86	42.62	54	-11.38	AV

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

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

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

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

Test Mode:	TX(5.8G) - 802.11ac-HT40
------------	--------------------------

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBUV/m)	(dB)	(dBUV/m)	(dBUV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.031	70.32	-20.24	50.08	74	-23.92	PK
Vertical	4679.031	59.96	-20.24	39.72	54	-14.28	AV
Vertical	11510.101	62.94	-8.81	54.13	74	-19.87	PK
Vertical	11510.101	49.23	-8.81	40.42	54	-13.58	AV
Vertical	17265.102	58.70	-3.01	55.69	68.2	-12.51	PK
Vertical	17265.102	44.83	-3.01	41.82	54	-12.18	AV
Horizontal	4679.146	73.19	-20.24	52.94	74	-21.06	PK
Horizontal	4679.146	59.88	-20.24	39.64	54	-14.36	AV
Horizontal	11510.149	62.70	-8.81	53.89	74	-20.11	PK
Horizontal	11510.149	49.48	-8.81	40.67	54	-13.33	AV
Horizontal	17265.156	56.91	-3.01	53.90	68.2	-14.30	PK
Horizontal	17265.156	44.28	-3.01	41.27	54	-12.73	AV
High Channel (5795 MHz)-Above 1G							
Vertical	6039.047	74.13	-18.93	55.20	68.2	-13.00	PK
Vertical	6039.047	59.33	-18.93	40.40	54	-13.60	AV
Vertical	11590.166	64.15	-8.87	55.28	74	-18.72	PK
Vertical	11590.166	49.61	-8.87	40.74	54	-13.26	AV
Vertical	17385.007	57.38	-2.35	55.03	68.2	-13.17	PK
Vertical	17385.007	44.23	-2.35	41.88	54	-12.12	AV
Horizontal	6039.161	73.55	-18.93	54.62	68.2	-13.58	PK
Horizontal	6039.161	59.55	-18.93	40.62	54	-13.38	AV
Horizontal	11590.134	63.10	-8.87	54.23	74	-19.77	PK
Horizontal	11590.134	49.14	-8.87	40.27	54	-13.73	AV
Horizontal	17385.150	56.45	-2.35	54.10	68.2	-14.10	PK
Horizontal	17385.150	44.16	-2.35	41.81	54	-12.19	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
------------	--------------------------

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5775 MHz)-Above 1G							
Vertical	4679.107	71.34	-20.24	51.10	74	-22.90	PK
Vertical	4679.107	59.26	-20.24	39.01	54	-14.99	AV
Vertical	11550.009	60.74	-8.84	51.90	74	-22.10	PK
Vertical	11550.009	49.65	-8.84	40.81	54	-13.19	AV
Vertical	17325.071	56.60	-2.68	53.92	68.2	-14.28	PK
Vertical	17325.071	44.30	-2.68	41.62	54	-12.38	AV
Horizontal	4679.094	71.53	-20.24	51.29	74	-22.71	PK
Horizontal	4679.094	59.01	-20.24	38.77	54	-15.23	AV
Horizontal	11550.025	63.72	-8.84	54.88	74	-19.12	PK
Horizontal	11550.025	49.17	-8.84	40.33	54	-13.67	AV
Horizontal	17325.078	57.68	-2.68	55.00	68.2	-13.20	PK
Horizontal	17325.078	44.91	-2.68	42.23	54	-11.77	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

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(b) (2) The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, 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.

(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 $RBW (< 500 \text{ KHz})$ 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 $RBW (< 1 \text{ MHz})$ 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 $RBW=100 \text{ KHz}$ 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)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	0.11	11	Pass
NVNT	a	5200	0.64	11	Pass
NVNT	a	5240	0.29	11	Pass
NVNT	n20	5180	0.27	11	Pass
NVNT	n20	5200	0.2	11	Pass
NVNT	n20	5240	-0.18	11	Pass
NVNT	n40	5190	-2.75	11	Pass
NVNT	n40	5230	-1.36	11	Pass
NVNT	ac20	5180	0.15	11	Pass
NVNT	ac20	5200	0.2	11	Pass
NVNT	ac20	5240	-0.05	11	Pass
NVNT	ac40	5190	-2.56	11	Pass
NVNT	ac40	5230	-2.79	11	Pass
NVNT	ac80	5210	-5.48	11	Pass

Test Graphs
PSD NVNT a 5180MHz Ant1



PSD NVNT a 5200MHz Ant1



PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1



PSD NVNT n20 5200MHz Ant1



PSD NVNT n20 5240MHz Ant1



PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1



PSD NVNT ac20 5180MHz Ant1



PSD NVNT ac20 5200MHz Ant1



PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1

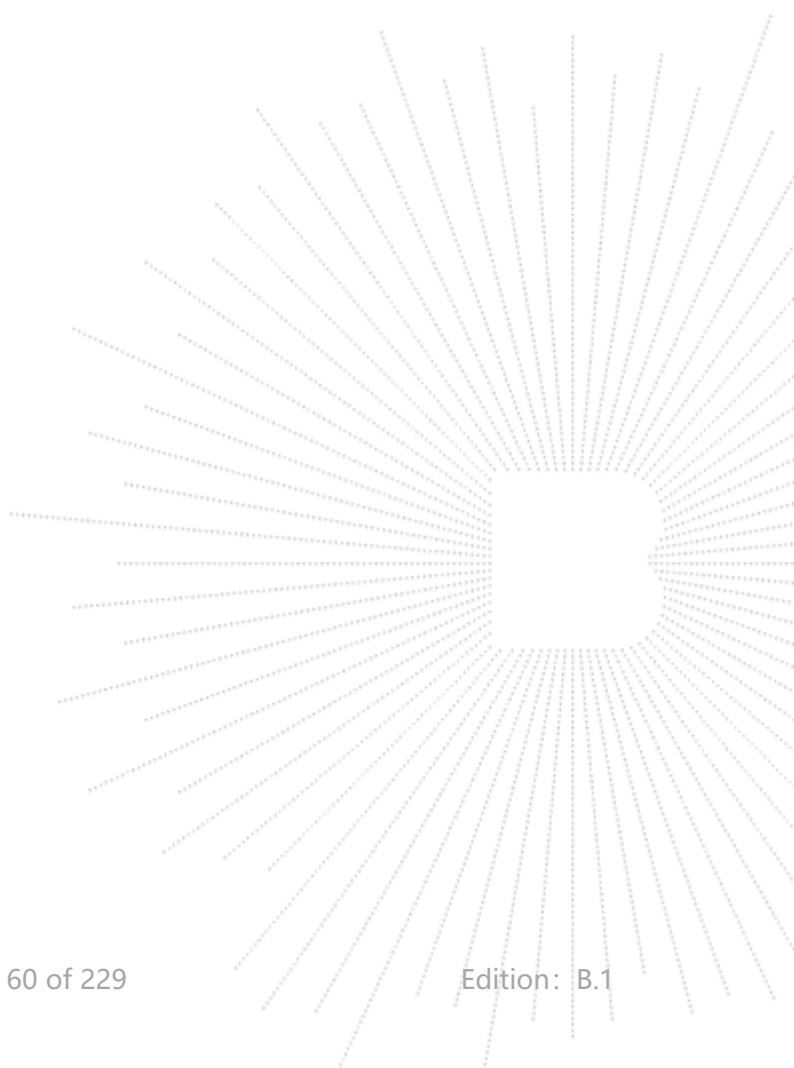


PSD NVNT ac80 5210MHz Ant1



Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5260-5320MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5260	0.87	11	Pass
NVNT	a	5280	0.99	11	Pass
NVNT	a	5320	0.97	11	Pass
NVNT	n20	5260	0.77	11	Pass
NVNT	n20	5280	0.58	11	Pass
NVNT	n20	5320	0.21	11	Pass
NVNT	n40	5270	-2.92	11	Pass
NVNT	n40	5310	-3.02	11	Pass
NVNT	ac20	5260	0.72	11	Pass
NVNT	ac20	5280	0.33	11	Pass
NVNT	ac20	5320	-0.3	11	Pass
NVNT	ac40	5270	-3.25	11	Pass
NVNT	ac40	5310	-2.64	11	Pass
NVNT	ac80	5290	-5.16	11	Pass



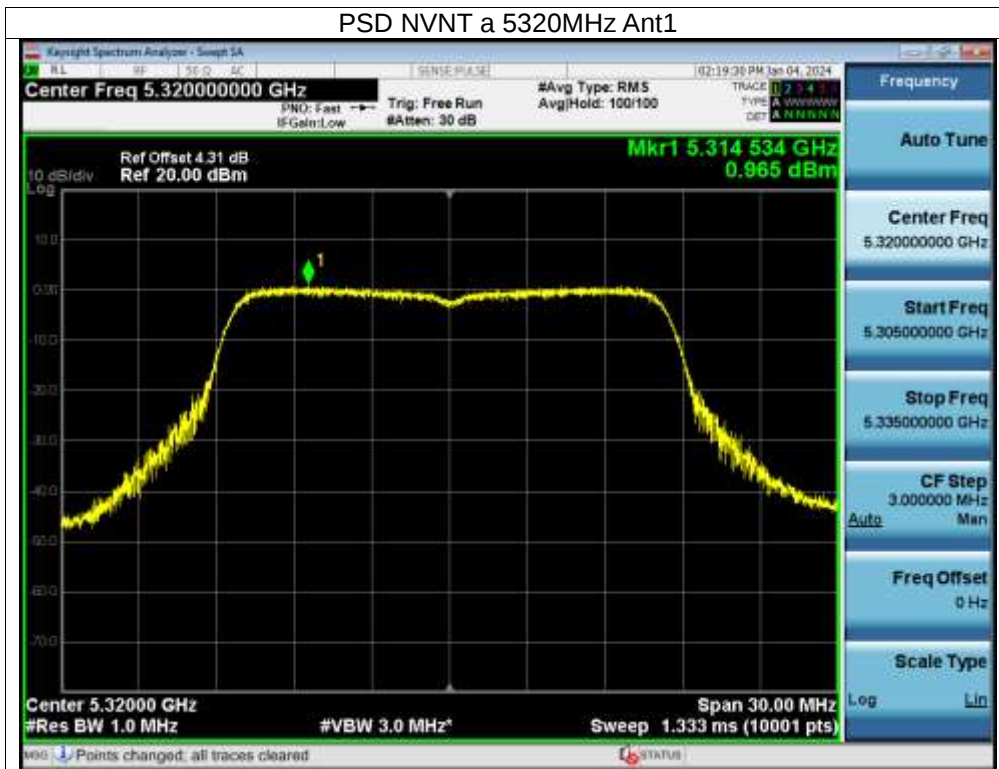
Test Graphs
PSD NVNT a 5260MHz Ant1



PSD NVNT a 5280MHz Ant1



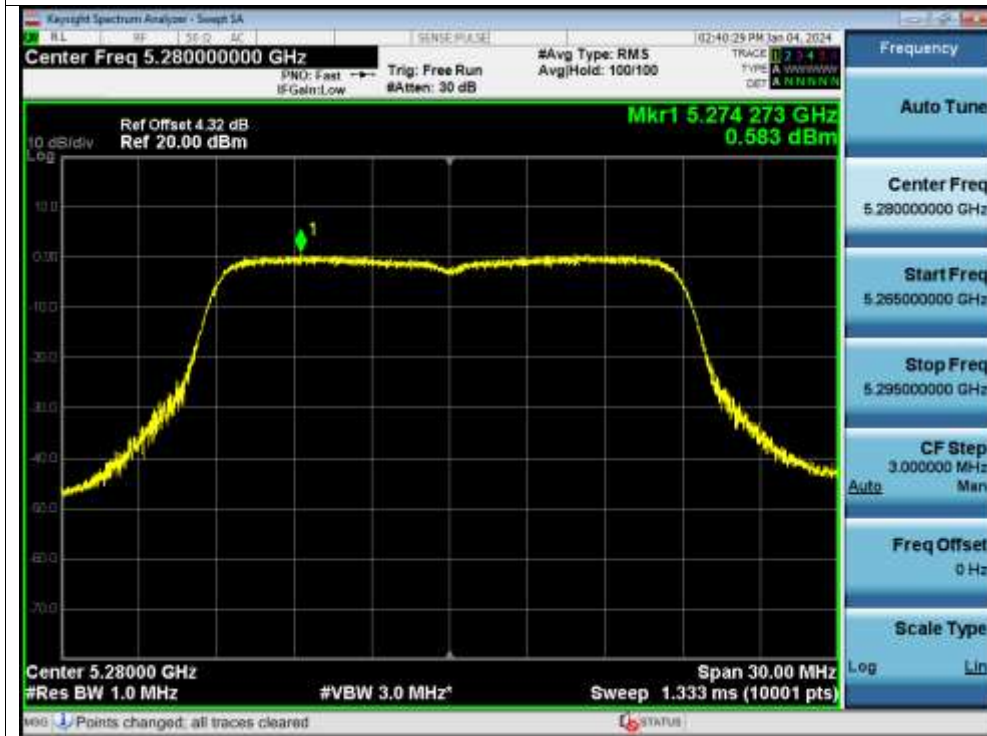
PSD NVNT a 5320MHz Ant1



PSD NVNT n20 5260MHz Ant1



PSD NVNT n20 5280MHz Ant1



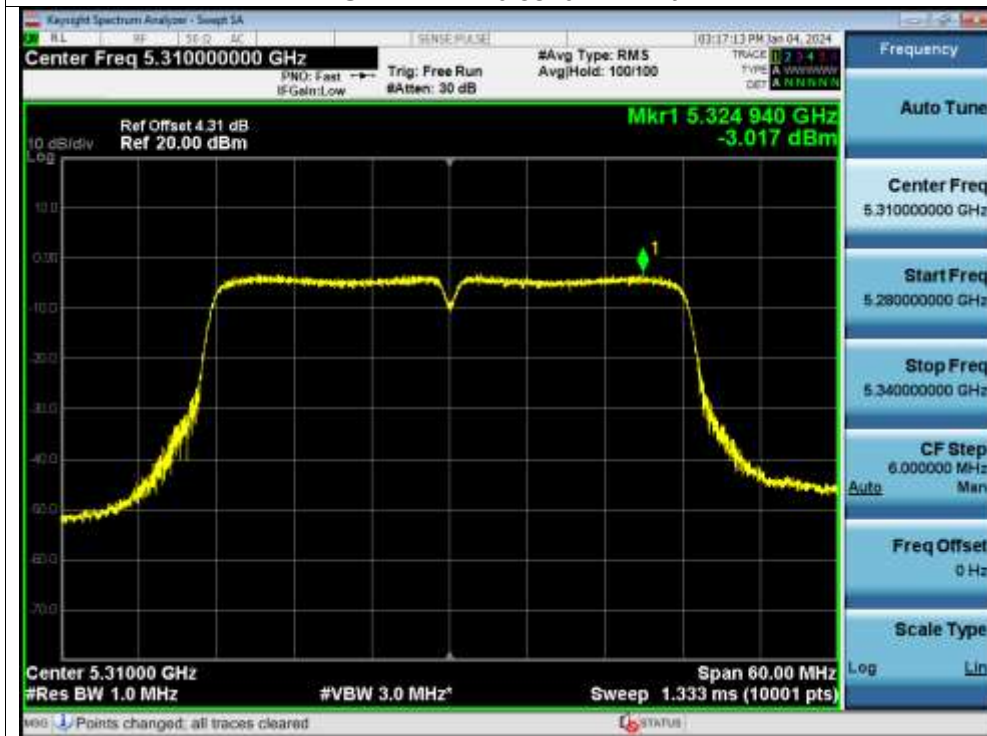
PSD NVNT n20 5320MHz Ant1



PSD NVNT n40 5270MHz Ant1



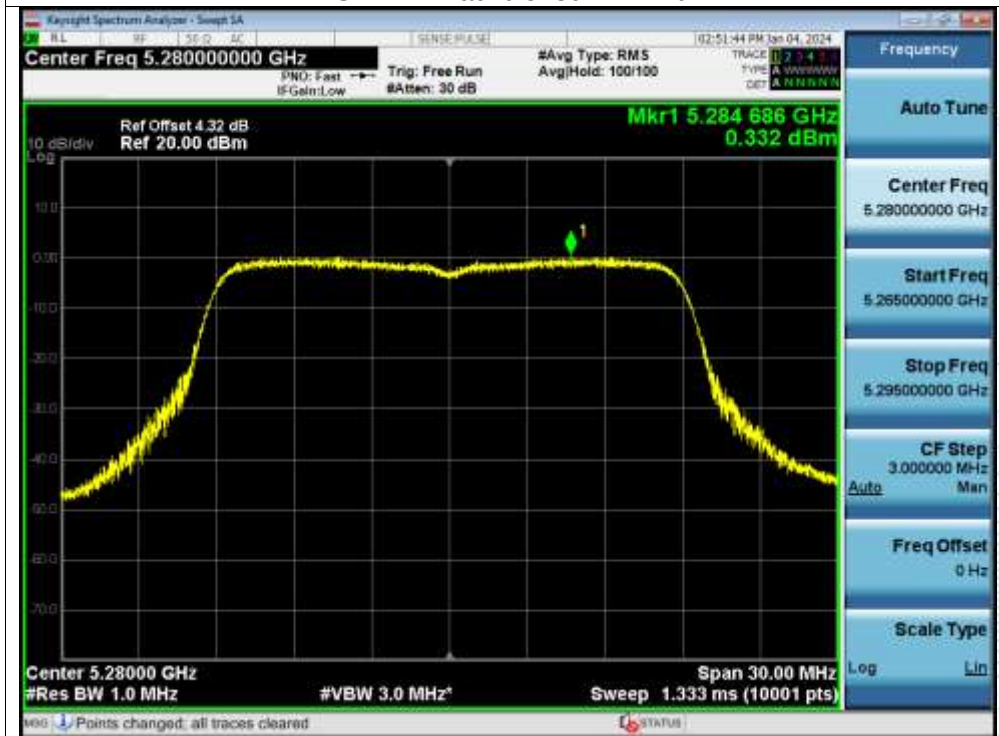
PSD NVNT n40 5310MHz Ant1



PSD NVNT ac20 5260MHz Ant1



PSD NVNT ac20 5280MHz Ant1



PSD NVNT ac20 5320MHz Ant1



PSD NVNT ac40 5270MHz Ant1



PSD NVNT ac40 5310MHz Ant1

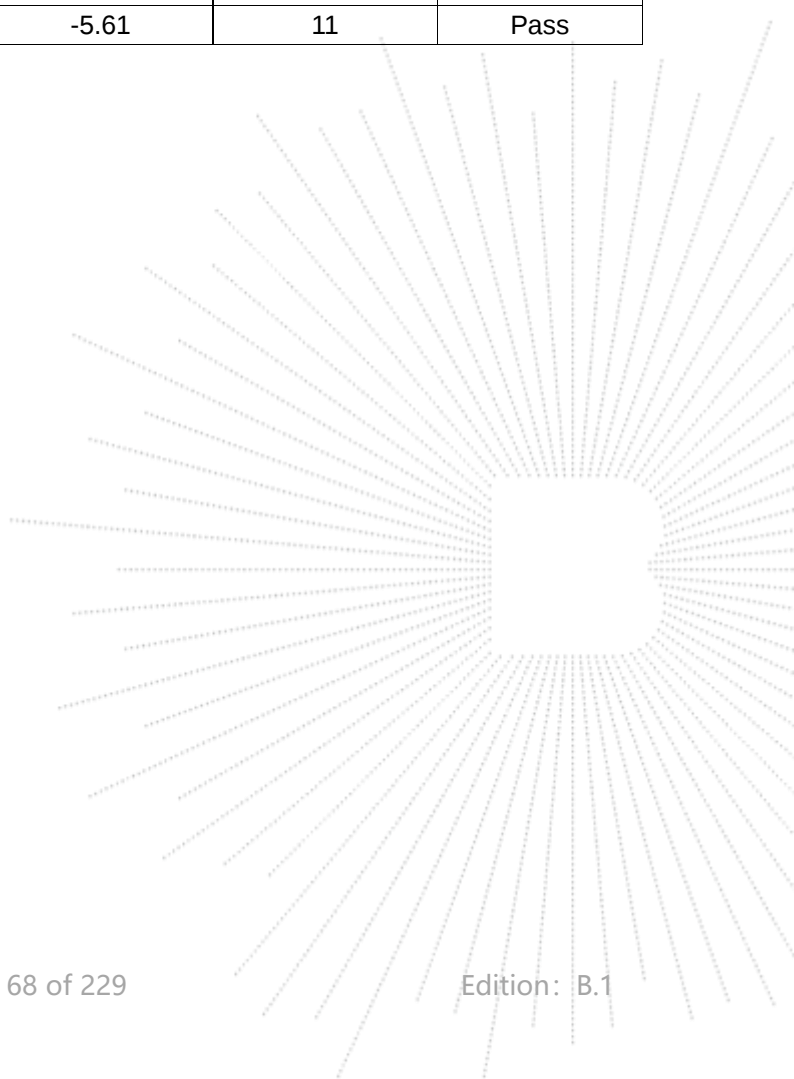


PSD NVNT ac80 5290MHz Ant1



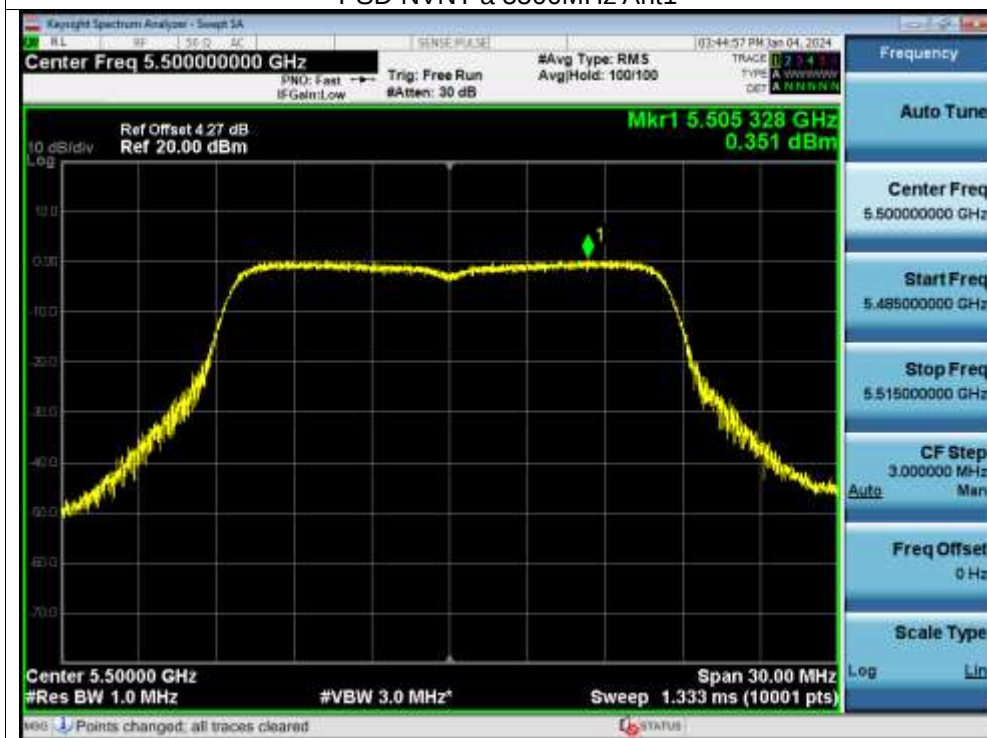
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5500-5700MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5500	0.35	11	Pass
NVNT	a	5580	0.67	11	Pass
NVNT	a	5700	-0.58	11	Pass
NVNT	n20	5500	0.45	11	Pass
NVNT	n20	5580	0.16	11	Pass
NVNT	n20	5700	0.51	11	Pass
NVNT	n40	5510	-3.09	11	Pass
NVNT	n40	5550	-2.88	11	Pass
NVNT	n40	5670	-4	11	Pass
NVNT	ac20	5500	0.1	11	Pass
NVNT	ac20	5580	0.23	11	Pass
NVNT	ac20	5700	-0.1	11	Pass
NVNT	ac40	5510	-3.04	11	Pass
NVNT	ac40	5550	-3.5	11	Pass
NVNT	ac40	5670	-3.2	11	Pass
NVNT	ac80	5530	-5.61	11	Pass

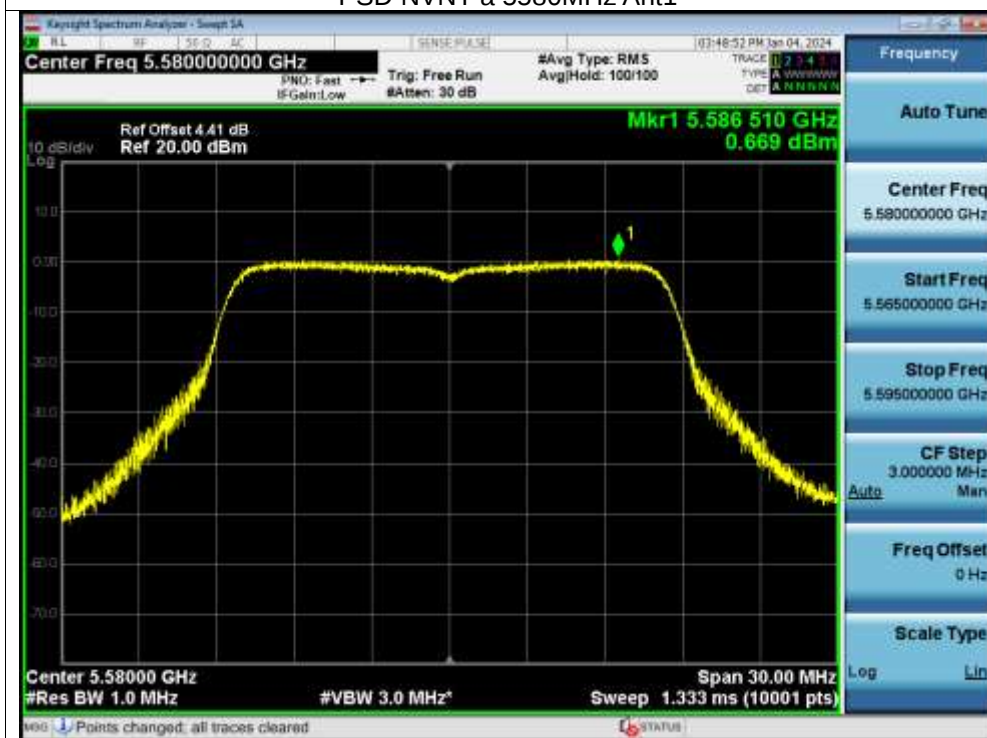


Test Graphs

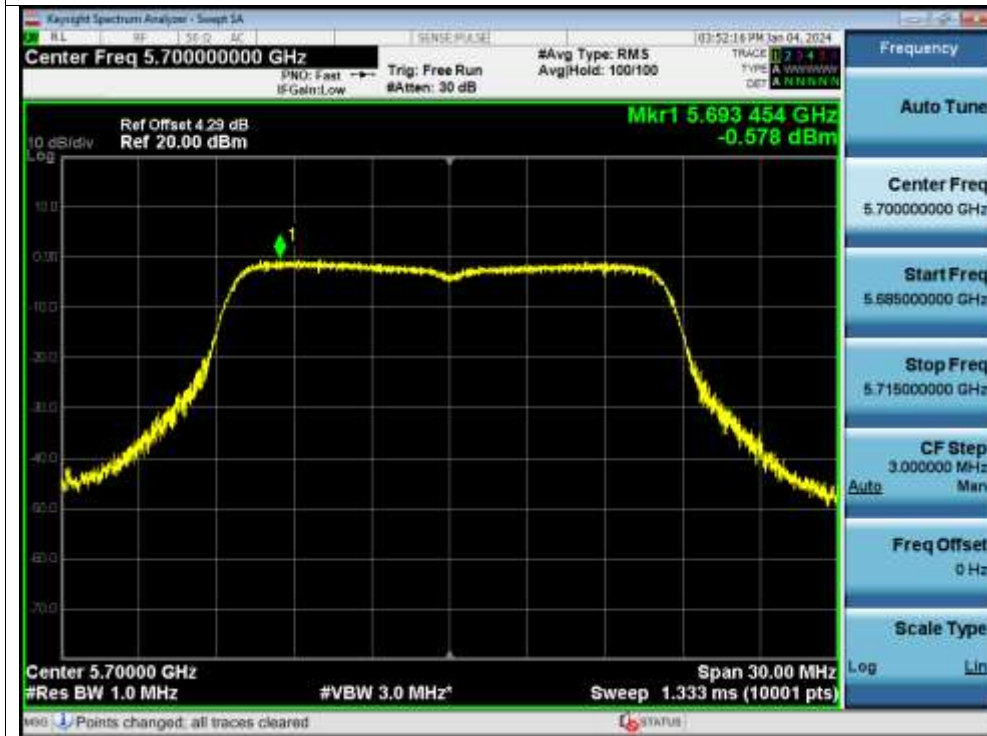
PSD NVNT a 5500MHz Ant1



PSD NVNT a 5580MHz Ant1



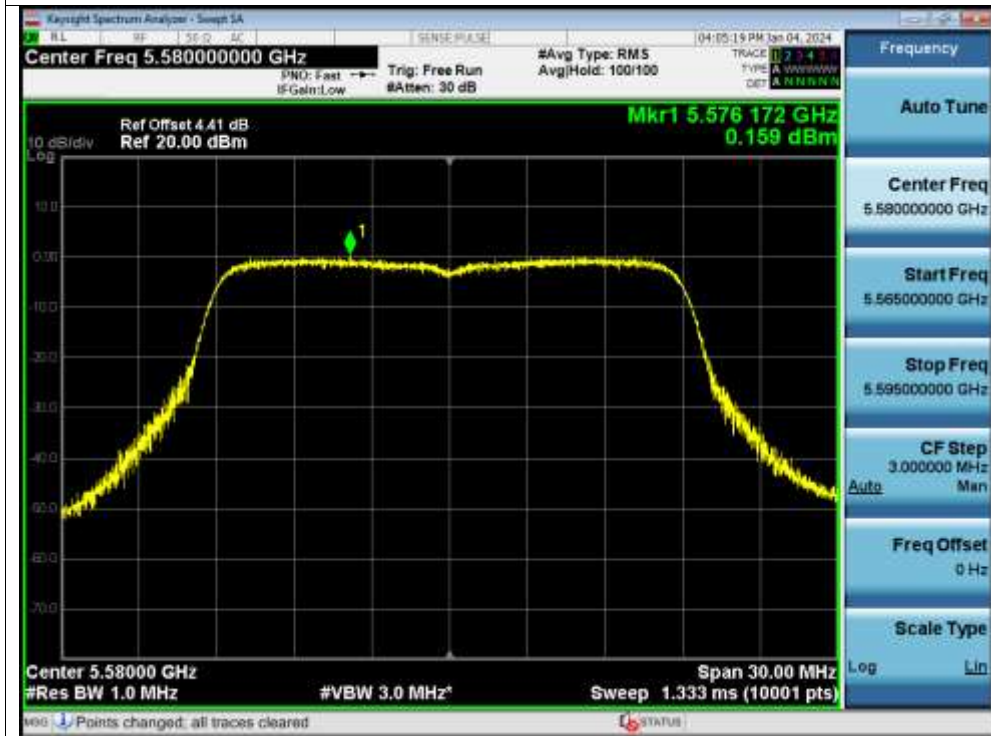
PSD NVNT a 5700MHz Ant1



PSD NVNT n20 5500MHz Ant1



PSD NVNT n20 5580MHz Ant1



PSD NVNT n20 5700MHz Ant1



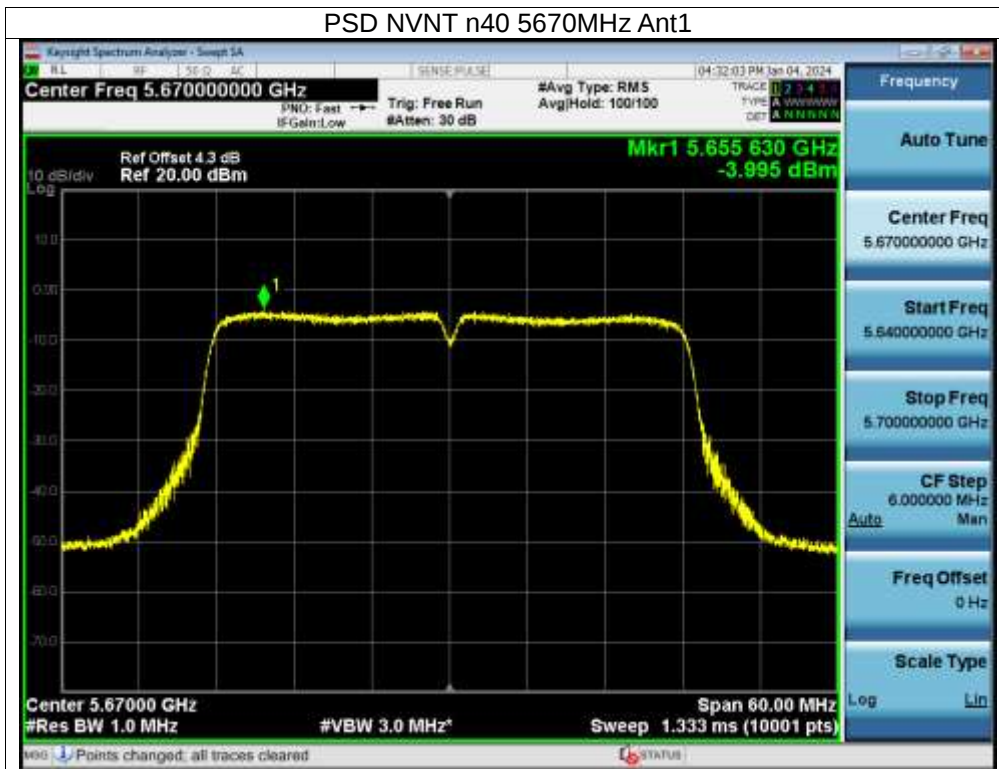
PSD NVNT n40 5510MHz Ant1



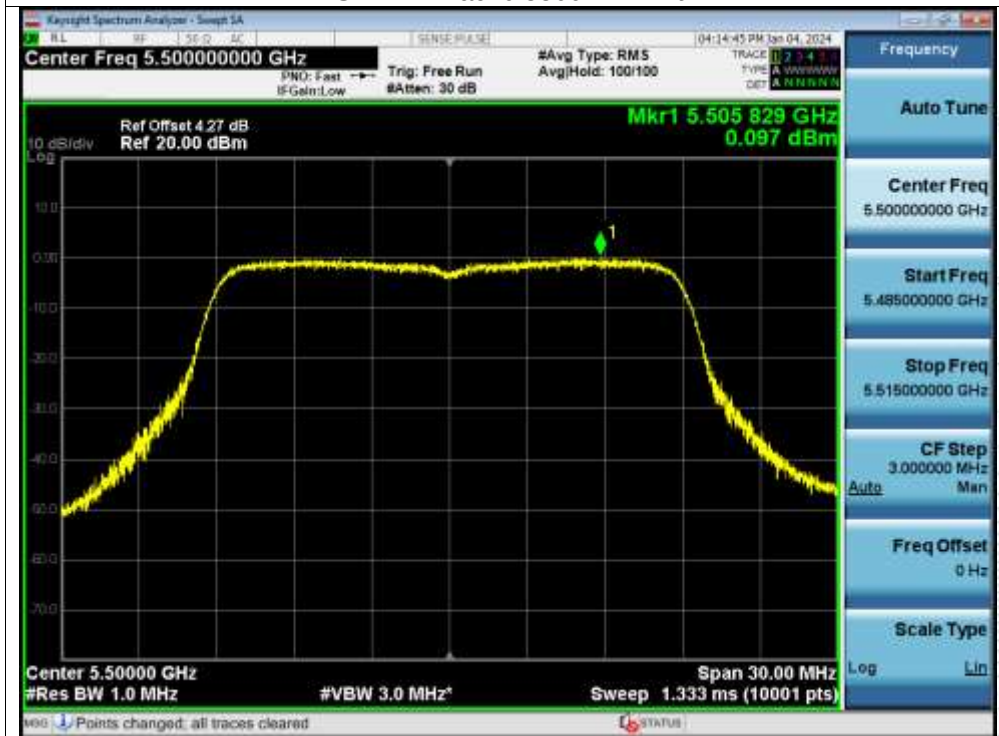
PSD NVNT n40 5550MHz Ant1



PSD NVNT n40 5670MHz Ant1



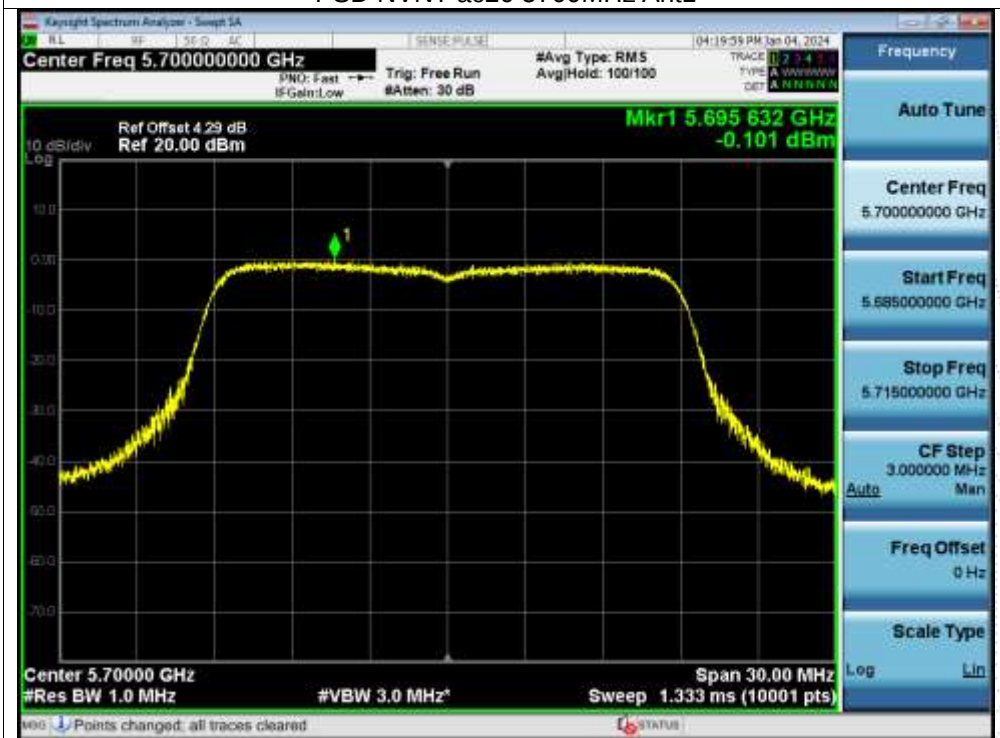
PSD NVNT ac20 5500MHz Ant1



PSD NVNT ac20 5580MHz Ant1



PSD NVNT ac20 5700MHz Ant1



PSD NVNT ac40 5510MHz Ant1



PSD NVNT ac40 5550MHz Ant1



PSD NVNT ac40 5670MHz Ant1

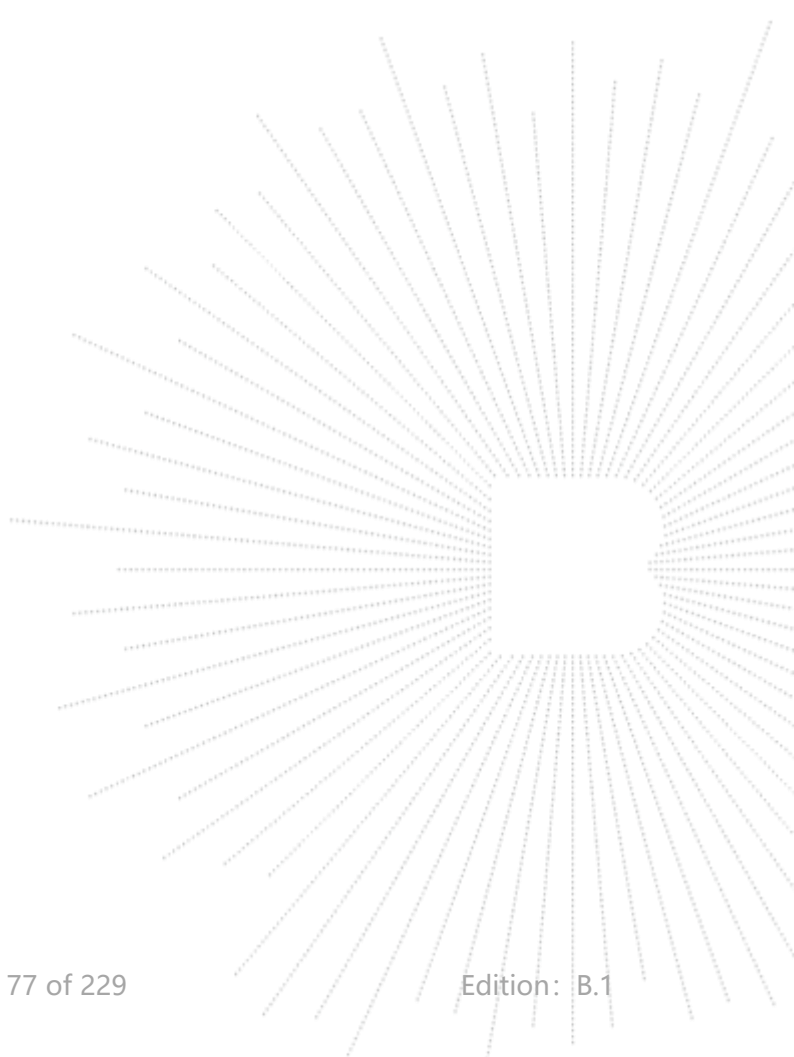


PSD NVNT ac80 5530MHz Ant1



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

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5745	-4.01	30	Pass
NVNT	a	5785	-3.93	30	Pass
NVNT	a	5825	-4.25	30	Pass
NVNT	n20	5745	-5.96	30	Pass
NVNT	n20	5785	-4.16	30	Pass
NVNT	n20	5825	-4.31	30	Pass
NVNT	n40	5755	-6.79	30	Pass
NVNT	n40	5795	-7	30	Pass
NVNT	ac20	5745	-3.21	30	Pass
NVNT	ac20	5785	-4.21	30	Pass
NVNT	ac20	5825	-3.5	30	Pass
NVNT	ac40	5755	-4.75	30	Pass
NVNT	ac40	5795	-7.14	30	Pass
NVNT	ac80	5775	-9.51	30	Pass



Test Graphs
PSD NVNT a 5745MHz Ant1



PSD NVNT a 5785MHz Ant1



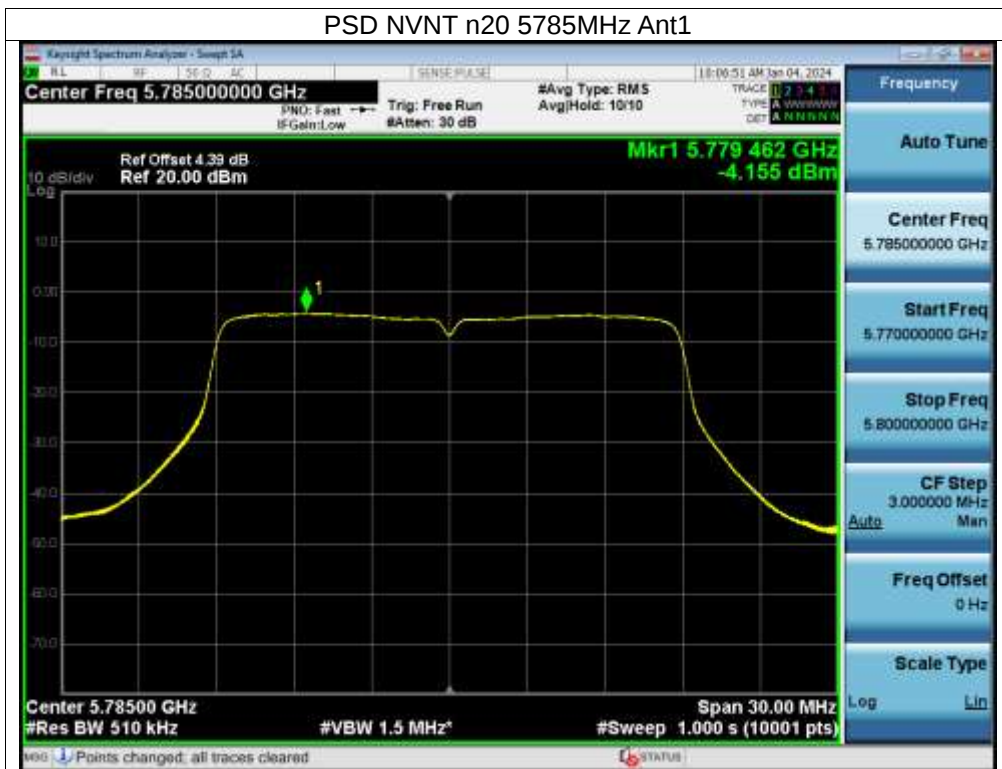
PSD NVNT a 5825MHz Ant1



PSD NVNT n20 5745MHz Ant1



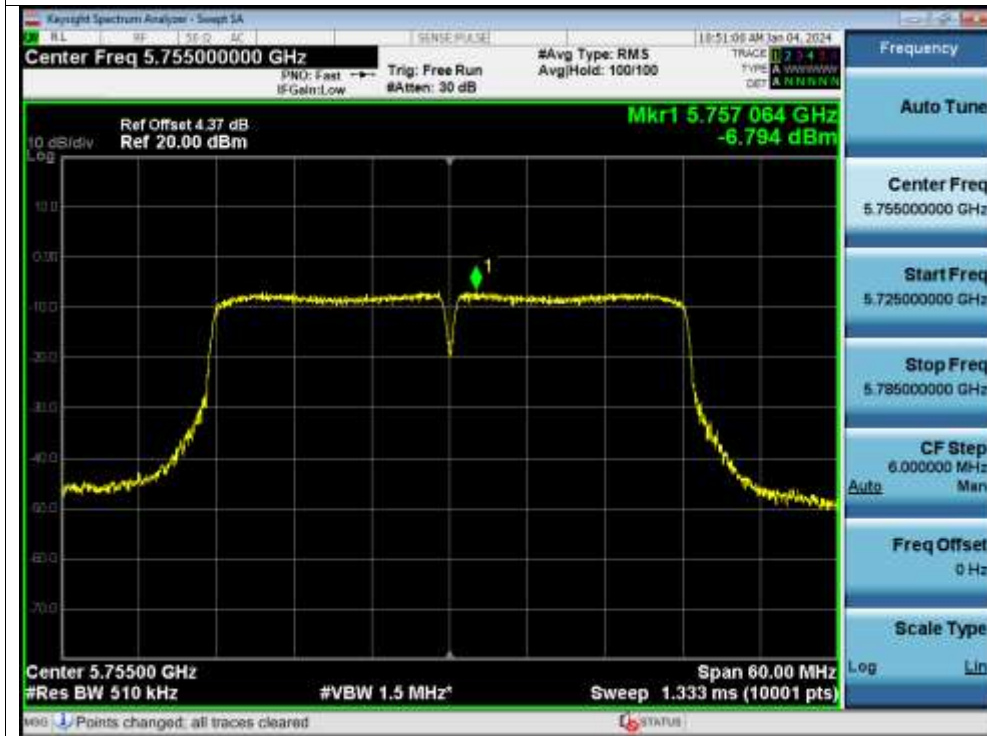
PSD NVNT n20 5785MHz Ant1



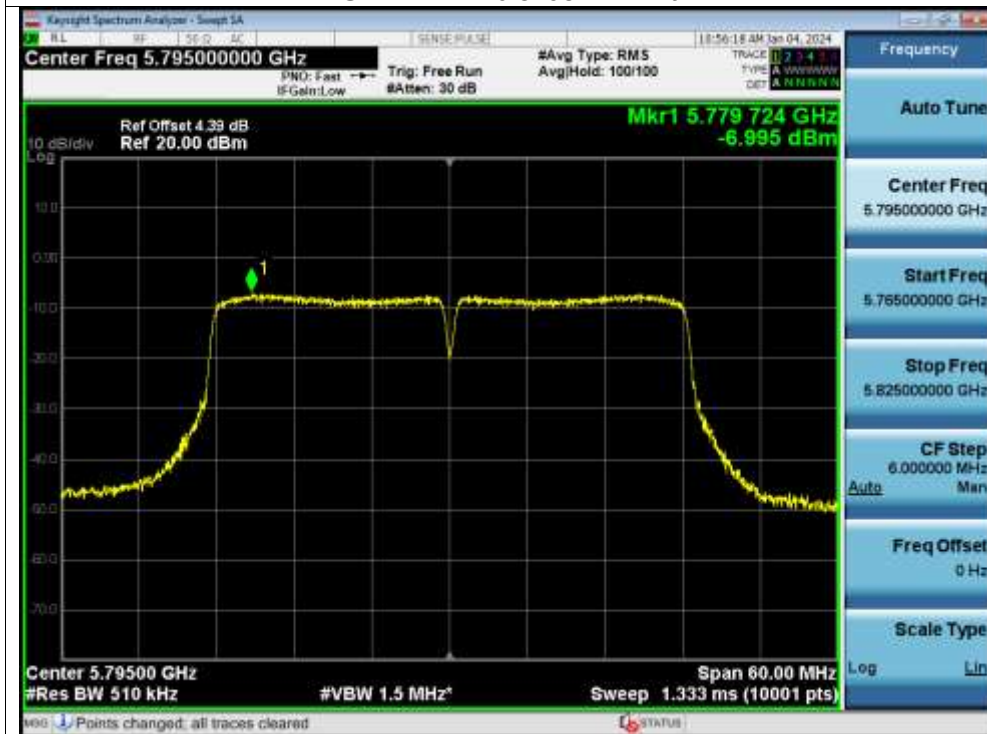
PSD NVNT n20 5825MHz Ant1



PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5795MHz Ant1



PSD NVNT ac20 5745MHz Ant1



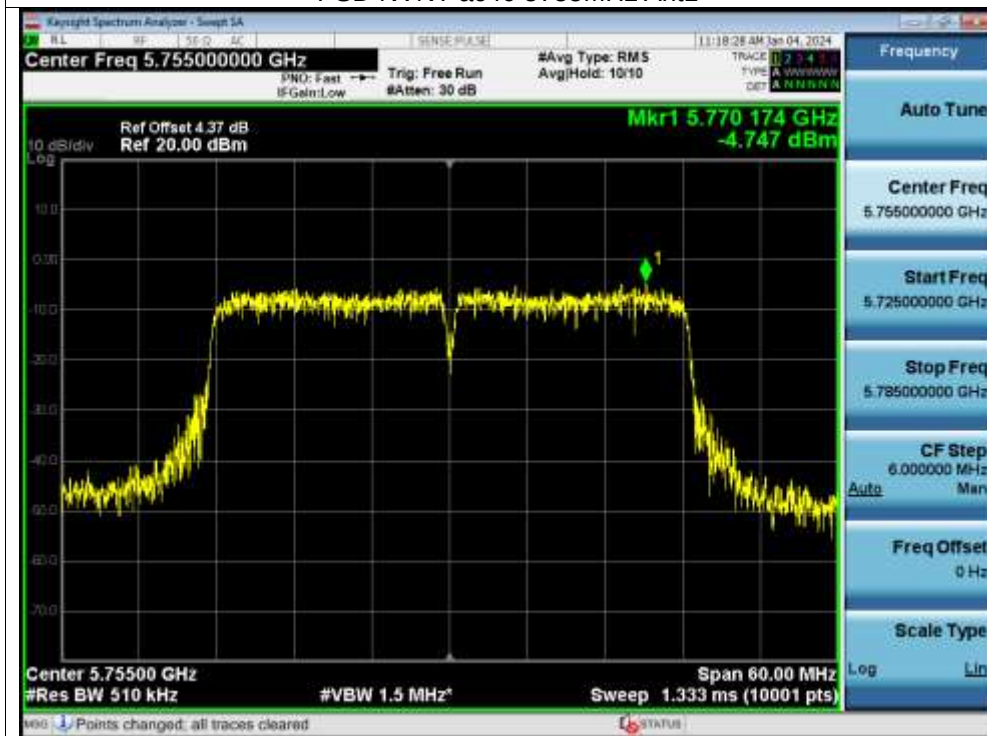
PSD NVNT ac20 5785MHz Ant1



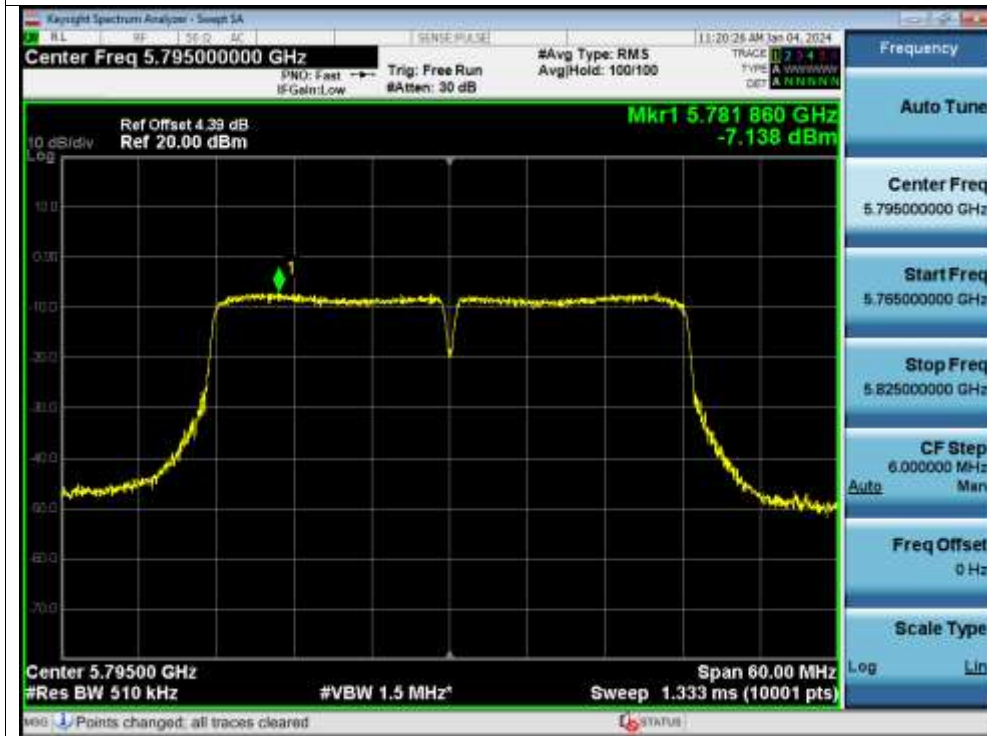
PSD NVNT ac20 5825MHz Ant1



PSD NVNT ac40 5755MHz Ant1



PSD NVNT ac40 5795MHz Ant1

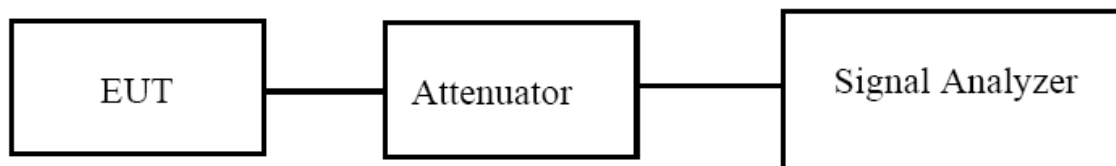


PSD NVNT ac80 5775MHz Ant1



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

9.1 Block Diagram Of Test Setup



9.2 Limit

(1) For the band 5.15-5.25 GHz.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, 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.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, 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.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. 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.

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%.

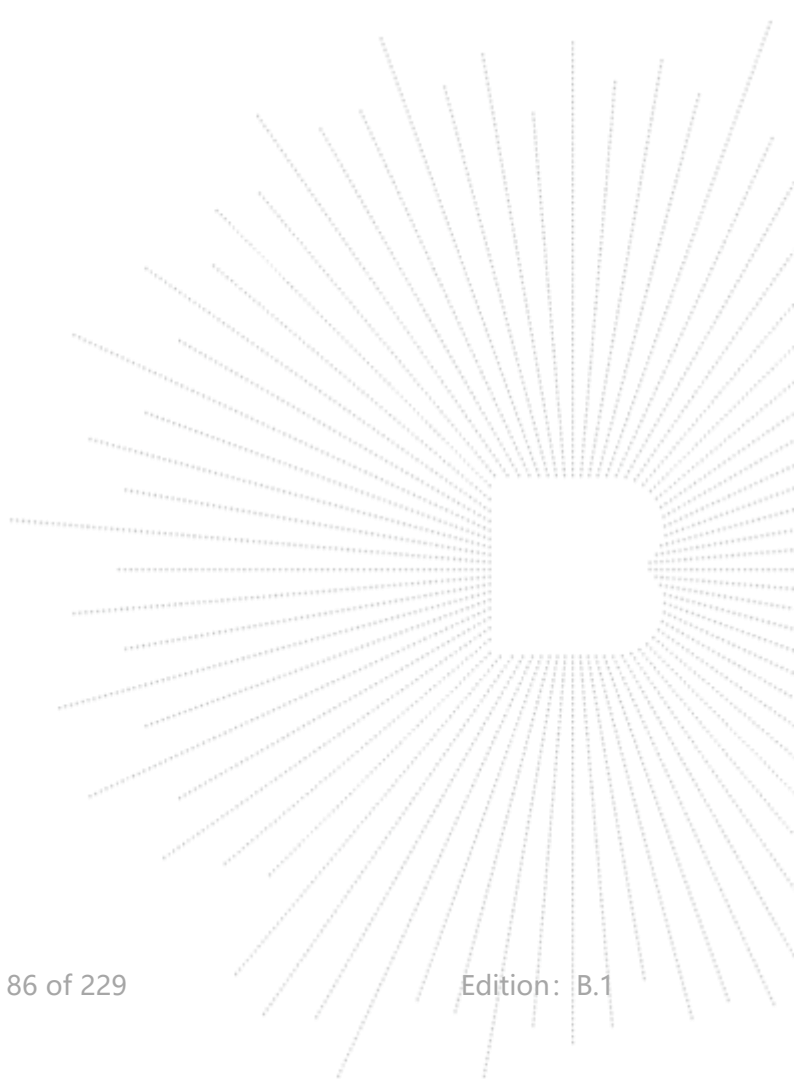
The following procedure shall be used for measuring (99 %) power bandwidth:

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.

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%
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5180-5240MHz)		

Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	20.943	Pass
NVNT	a	5200	20.819	Pass
NVNT	a	5240	20.803	Pass
NVNT	n20	5180	21.381	Pass
NVNT	n20	5200	21.594	Pass
NVNT	n20	5240	21.448	Pass
NVNT	n40	5190	41.509	Pass
NVNT	n40	5230	41.668	Pass
NVNT	ac20	5180	21.528	Pass
NVNT	ac20	5200	21.388	Pass
NVNT	ac20	5240	21.345	Pass
NVNT	ac40	5190	41.597	Pass
NVNT	ac40	5230	41.15	Pass
NVNT	ac80	5210	79.73	Pass

Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5180	16.52
NVNT	a	5200	16.546
NVNT	a	5240	16.532
NVNT	n20	5180	17.666
NVNT	n20	5200	17.696
NVNT	n20	5240	17.662
NVNT	n40	5190	36.185
NVNT	n40	5230	36.171
NVNT	ac20	5180	17.698
NVNT	ac20	5200	17.702
NVNT	ac20	5240	17.649
NVNT	ac40	5190	36.207
NVNT	ac40	5230	36.202
NVNT	ac80	5210	75.605

Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



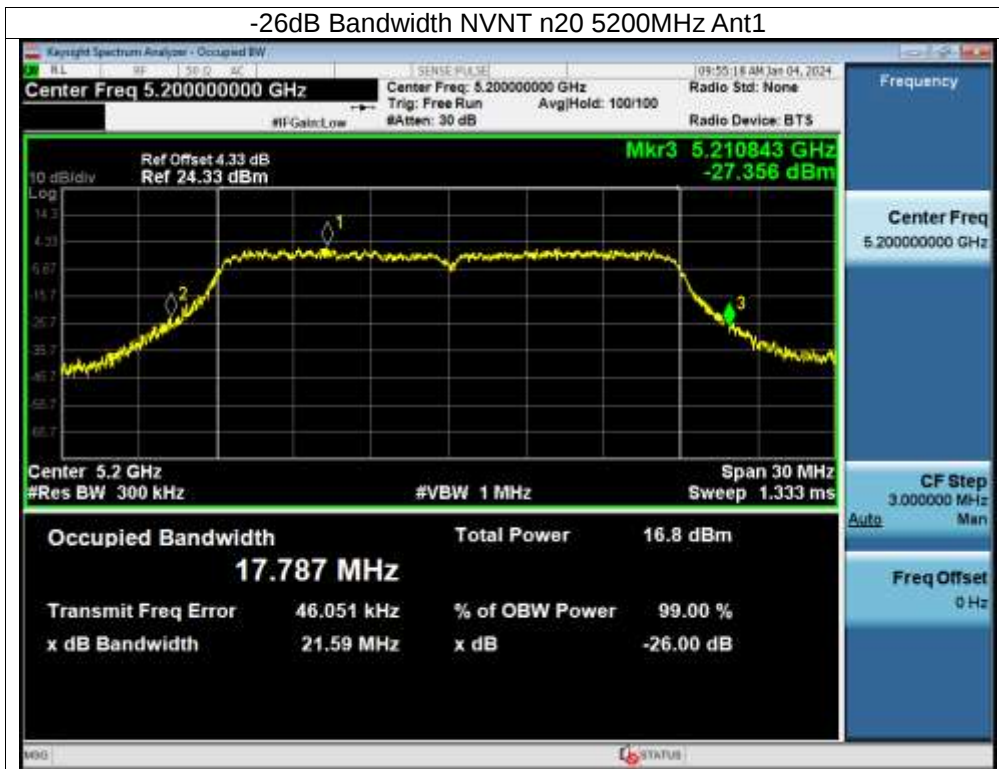
-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1



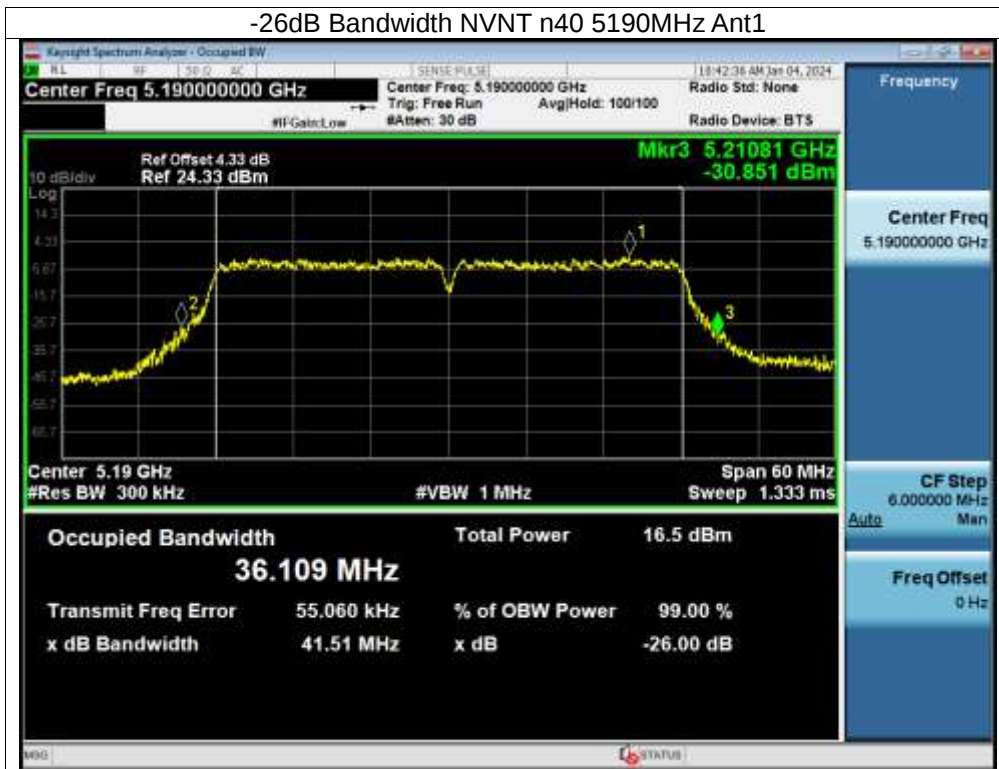
-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1



-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1



-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5200MHz Ant1



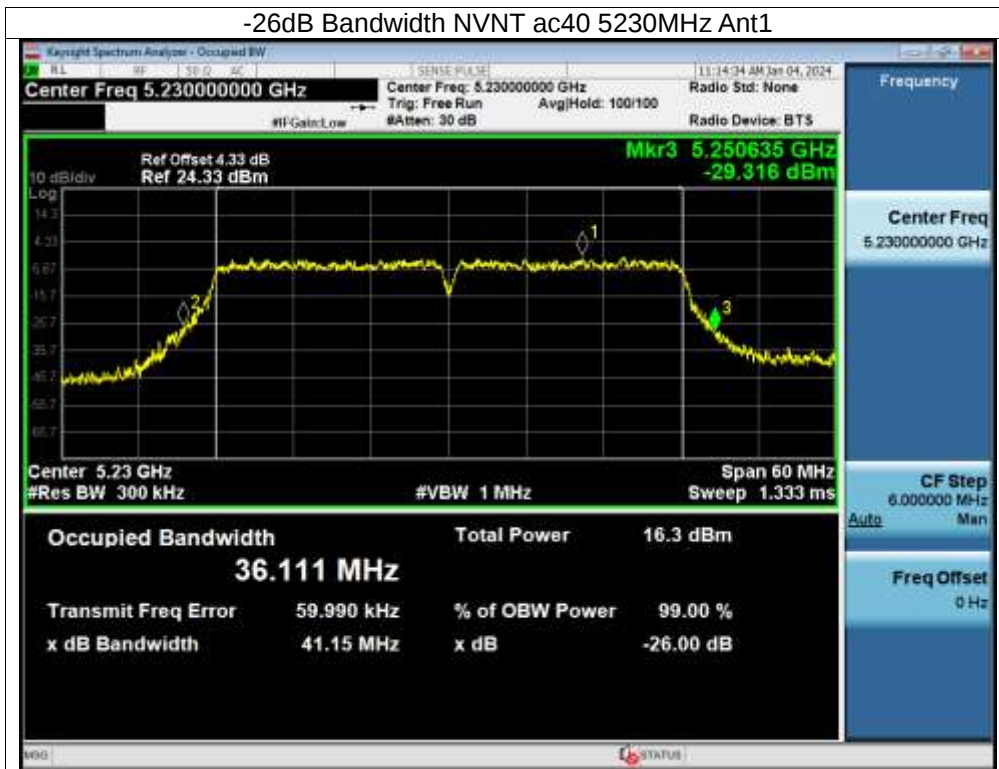
-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1



Test Graphs

OBW NVNT a 5180MHz Ant1



OBW NVNT a 5200MHz Ant1



OBW NVNT a 5240MHz Ant1



OBW NVNT n20 5180MHz Ant1



OBW NVNT n20 5200MHz Ant1



OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1



OBW NVNT n40 5230MHz Ant1



OBW NVNT ac20 5180MHz Ant1



OBW NVNT ac20 5200MHz Ant1



OBW NVNT ac20 5240MHz Ant1



OBW NVNT ac40 5190MHz Ant1



OBW NVNT ac40 5230MHz Ant1



OBW NVNT ac80 5210MHz Ant1



Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5260-5320MHz)		

Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	20.771	Pass
NVNT	a	5280	21.081	Pass
NVNT	a	5320	20.816	Pass
NVNT	n20	5260	21.571	Pass
NVNT	n20	5280	21.671	Pass
NVNT	n20	5320	21.487	Pass
NVNT	n40	5270	41.196	Pass
NVNT	n40	5310	41.228	Pass
NVNT	ac20	5260	21.363	Pass
NVNT	ac20	5280	21.39	Pass
NVNT	ac20	5320	21.43	Pass
NVNT	ac40	5270	41.607	Pass
NVNT	ac40	5310	40.885	Pass
NVNT	ac80	5290	79.943	Pass

Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5260	16.533
NVNT	a	5280	16.547
NVNT	a	5320	16.563
NVNT	n20	5260	17.68
NVNT	n20	5280	17.677
NVNT	n20	5320	17.676
NVNT	n40	5270	36.187
NVNT	n40	5310	36.204
NVNT	ac20	5260	17.692
NVNT	ac20	5280	17.699
NVNT	ac20	5320	17.71
NVNT	ac40	5270	36.215
NVNT	ac40	5310	36.167
NVNT	ac80	5290	75.582

Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant1



-26dB Bandwidth NVNT a 5280MHz Ant1



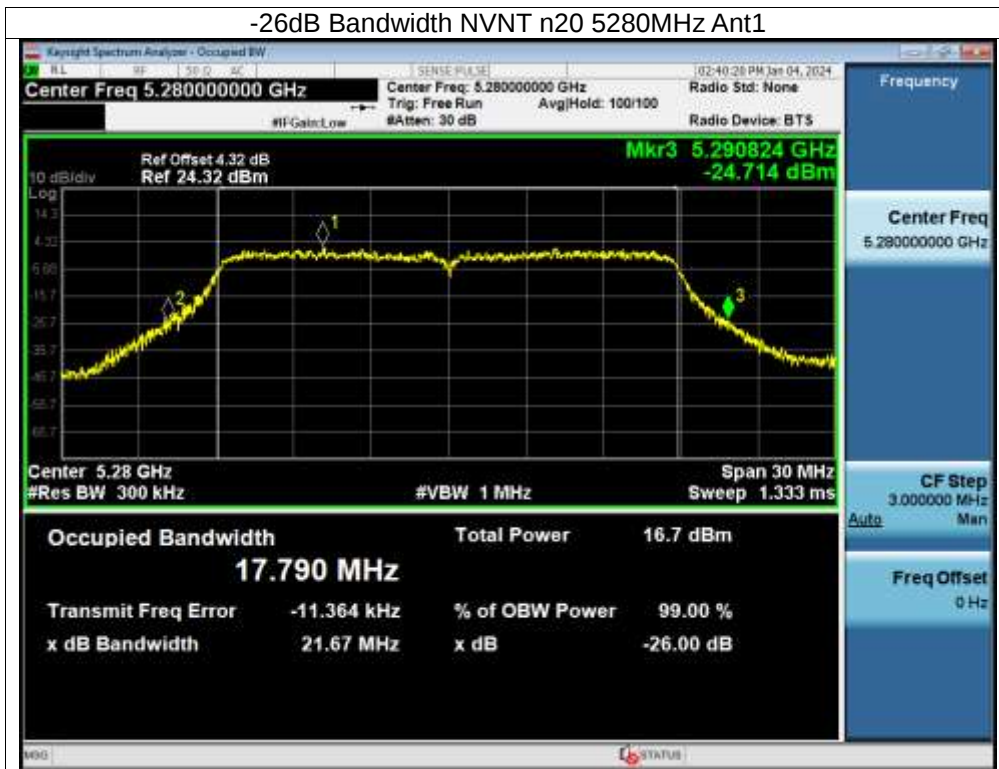
-26dB Bandwidth NVNT a 5320MHz Ant1



-26dB Bandwidth NVNT n20 5260MHz Ant1



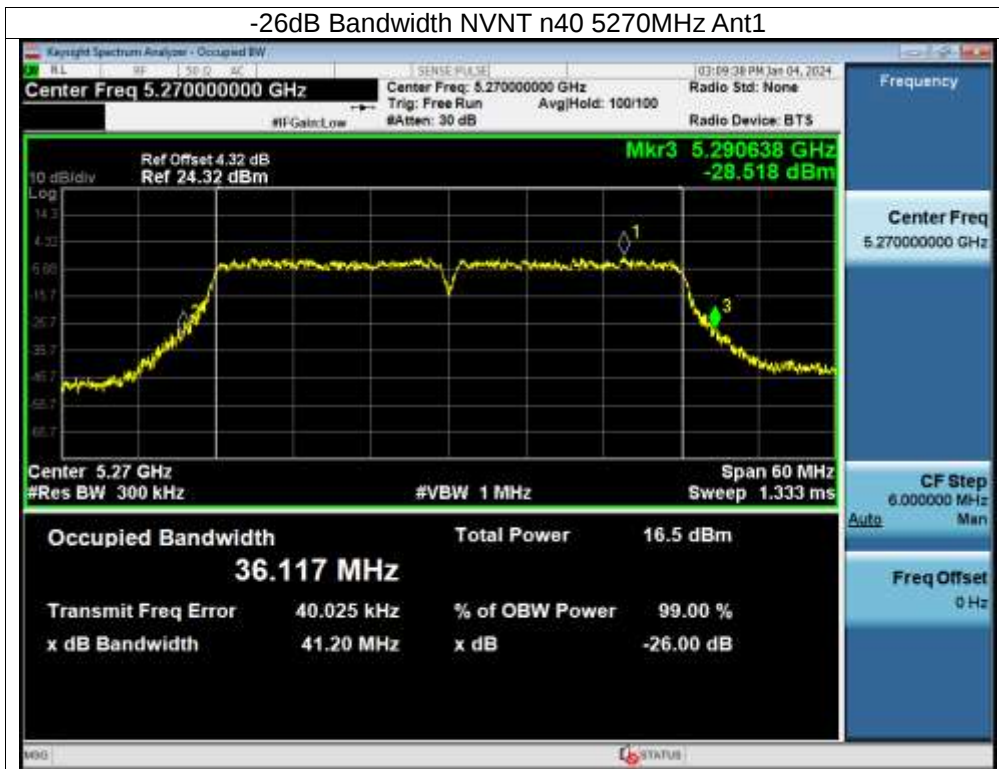
-26dB Bandwidth NVNT n20 5280MHz Ant1



-26dB Bandwidth NVNT n20 5320MHz Ant1



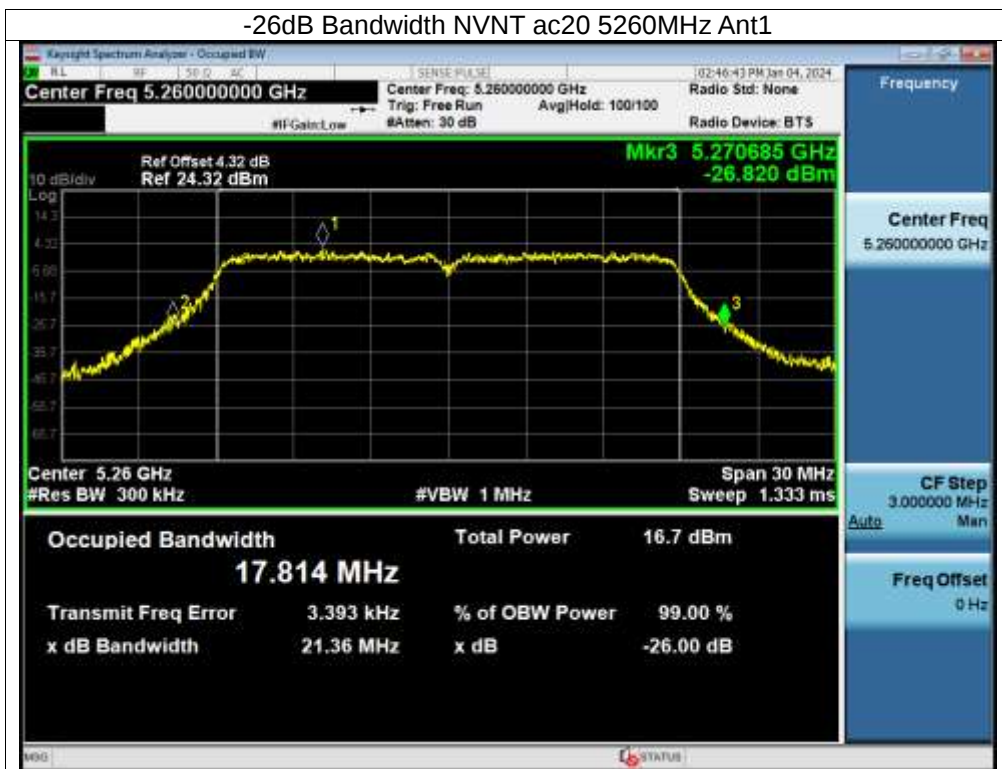
-26dB Bandwidth NVNT n40 5270MHz Ant1



-26dB Bandwidth NVNT n40 5310MHz Ant1



-26dB Bandwidth NVNT ac20 5260MHz Ant1



-26dB Bandwidth NVNT ac20 5280MHz Ant1



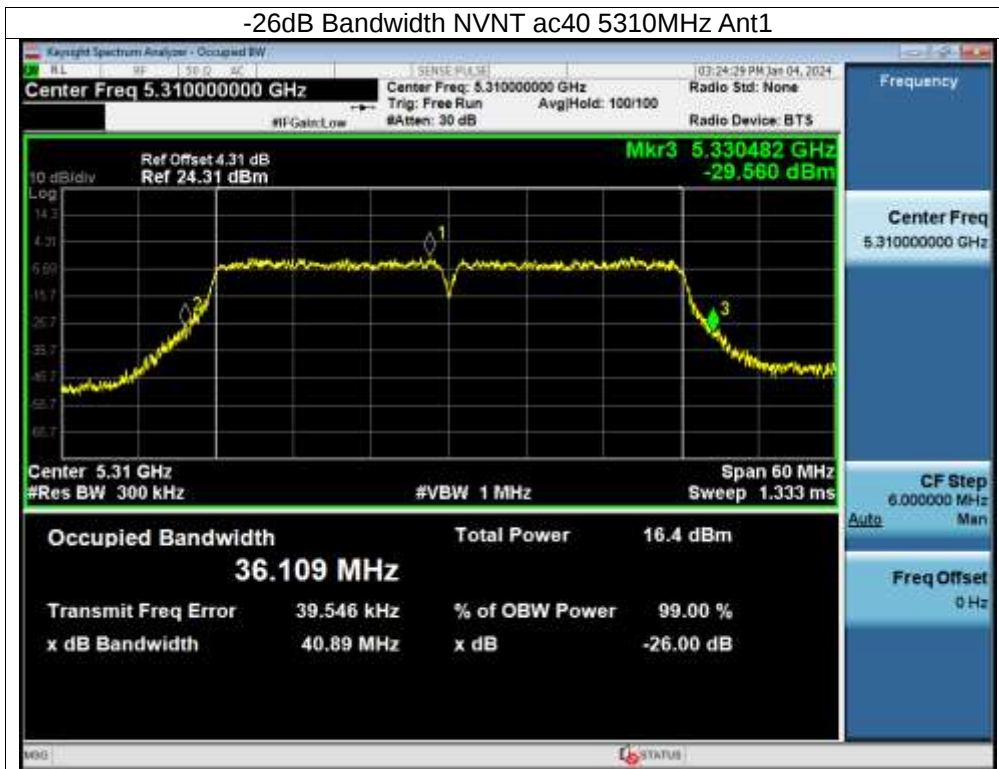
-26dB Bandwidth NVNT ac20 5320MHz Ant1



-26dB Bandwidth NVNT ac40 5270MHz Ant1



-26dB Bandwidth NVNT ac40 5310MHz Ant1



-26dB Bandwidth NVNT ac80 5290MHz Ant1



Test Graphs

OBW NVNT a 5260MHz Ant1



OBW NVNT a 5280MHz Ant1



OBW NVNT a 5320MHz Ant1



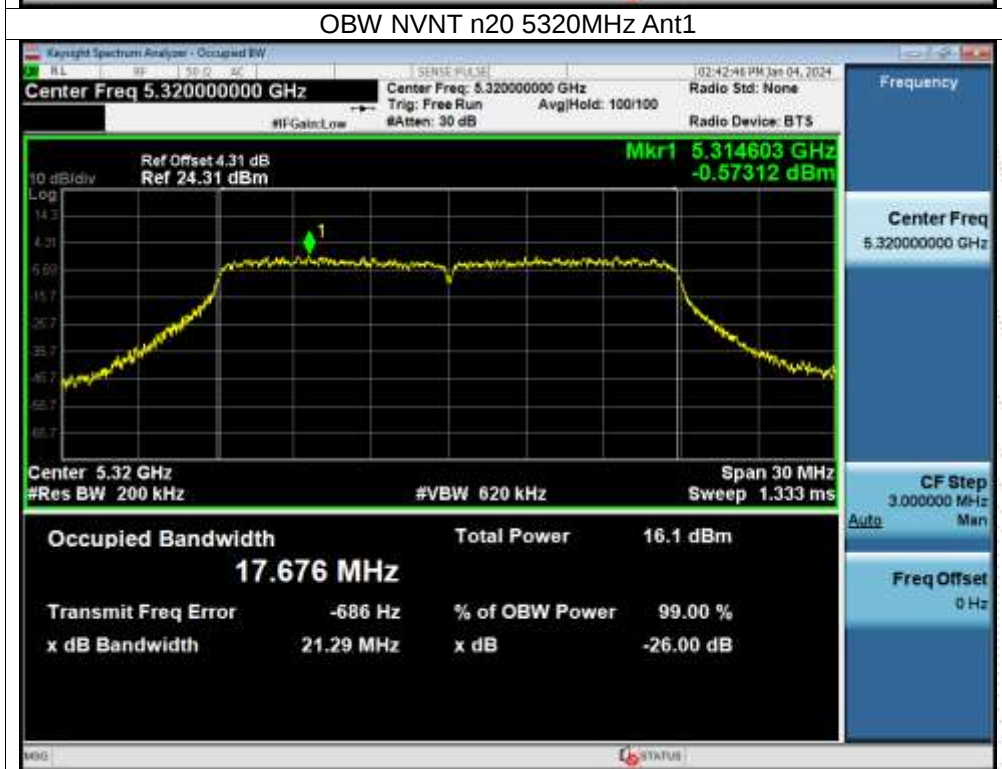
OBW NVNT n20 5260MHz Ant1



OBW NVNT n20 5280MHz Ant1



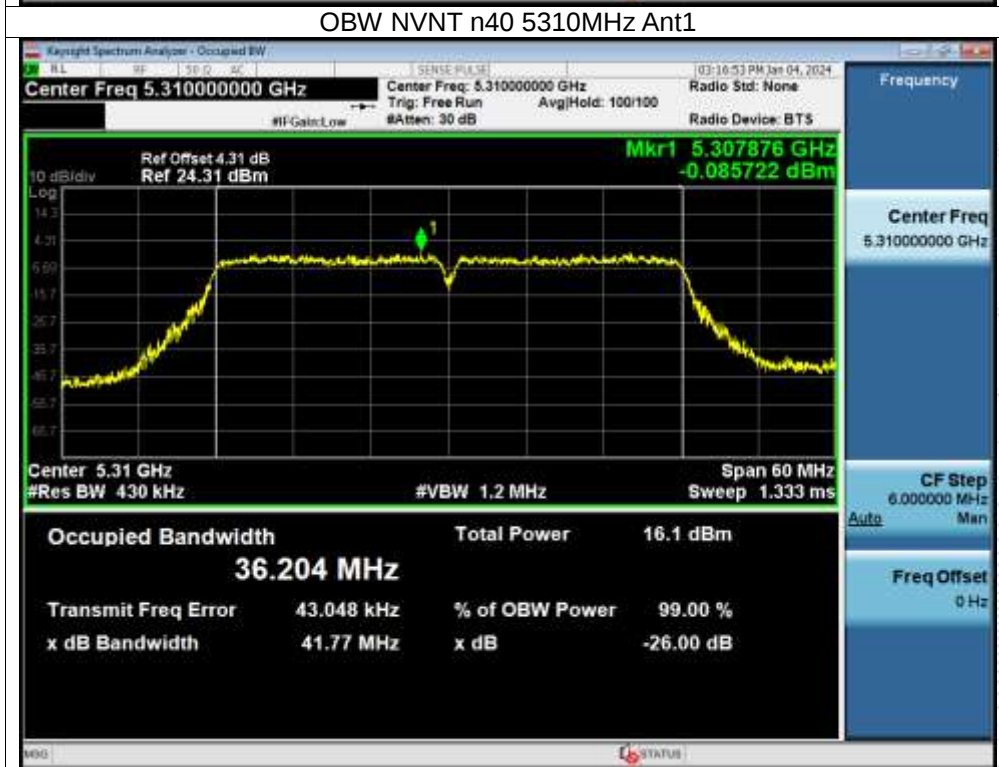
OBW NVNT n20 5320MHz Ant1



OBW NVNT n40 5270MHz Ant1



OBW NVNT n40 5310MHz Ant1



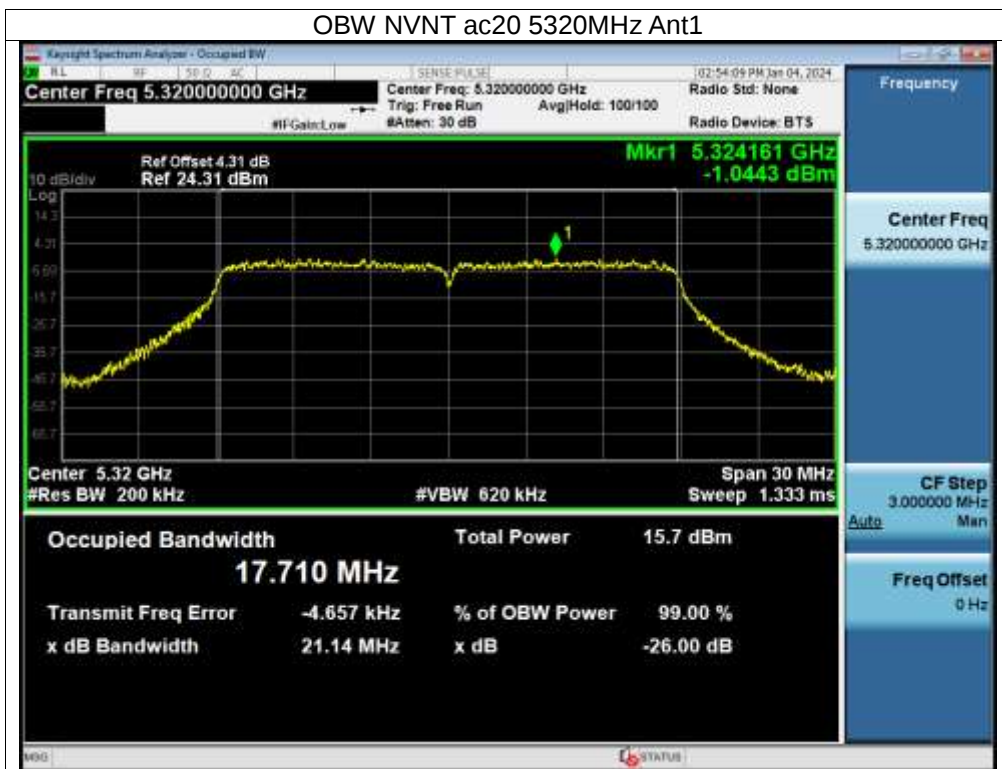
OBW NVNT ac20 5260MHz Ant1



OBW NVNT ac20 5280MHz Ant1



OBW NVNT ac20 5320MHz Ant1



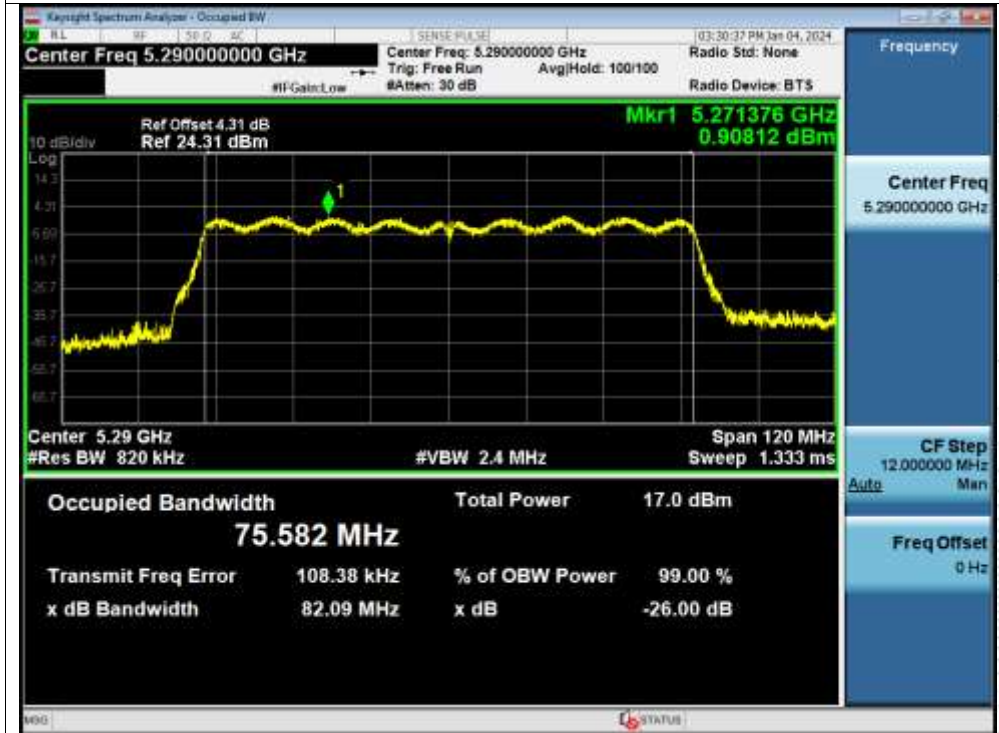
OBW NVNT ac40 5270MHz Ant1



OBW NVNT ac40 5310MHz Ant1



OBW NVNT ac80 5290MHz Ant1



Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5500-5700MHz)		

Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	20.944	Pass
NVNT	a	5580	20.826	Pass
NVNT	a	5700	20.86	Pass
NVNT	n20	5500	21.511	Pass
NVNT	n20	5580	21.598	Pass
NVNT	n20	5700	21.548	Pass
NVNT	n40	5510	43.507	Pass
NVNT	n40	5550	43.205	Pass
NVNT	n40	5670	43.268	Pass
NVNT	ac20	5500	21.386	Pass
NVNT	ac20	5580	21.565	Pass
NVNT	ac20	5700	21.576	Pass
NVNT	ac40	5510	43.719	Pass
NVNT	ac40	5550	43.899	Pass
NVNT	ac40	5670	43.322	Pass
NVNT	ac80	5530	82.464	Pass

Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5500	16.542
NVNT	a	5580	16.542
NVNT	a	5700	16.536
NVNT	n20	5500	17.679
NVNT	n20	5580	17.667
NVNT	n20	5700	17.679
NVNT	n40	5510	36.182
NVNT	n40	5550	36.238
NVNT	n40	5670	36.163
NVNT	ac20	5500	17.669
NVNT	ac20	5580	17.678
NVNT	ac20	5700	17.682
NVNT	ac40	5510	36.142
NVNT	ac40	5550	36.189
NVNT	ac40	5670	36.147
NVNT	ac80	5530	75.578

Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant1



-26dB Bandwidth NVNT a 5580MHz Ant1

