FCC TEST REPORT
FCC ID: 2AJVP-OMEGA4

Applicant Name.....	:	Onion Corporation
Address.....	:	895 Don Mills Road, Tower-2, Suite 900, Toronto, Ontario, M3C 1W3, Canada
Manufacturer Name.....	:	Onion Corporation
Address.....	:	895 Don Mills Road, Tower-2, Suite 900, Toronto, Ontario, M3C 1W3, Canada
Product.....	:	Omega 4
Model(s).....	:	OM-O4
Additional Model(s).....	:	/
Trademark.....	:	/
Model Difference.....	:	/
Prepared by.....	:	Guangdong Zhonghan Testing Technology Co., Ltd.
Address.....	:	Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Date of Receipt.....	:	Apr. 24, 2026
Date of Test(s).....	:	Apr. 24, 2026 to May 19, 2026
Date of Issue.....	:	May 19, 2026
Test Requested.....	:	Select test(s) as requested by the client.
Test Standard(s).....	:	FCC Part 15 Subpart E 15.407 KDB789033 D02 General U-NII Test Procedures New Rules v02r01
Test procedure.....	:	ANSI C63.10-2020+Cor.1-2023

In the configuration tested, the EUT complied with the standards specified above.

Prepared by:	Reviewed by:	Approved by:
Kimi Lu/ Engineer	Baret Wu/ Director	Levi Lee/ Manager

Note: The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report shall not be reproduced except in full, without prior written approval of ZHT. This document may be altered or revised by ZHT, personnel only, and shall be noted in the revision of the document.

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1.SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
15.207(a)	AC Power Line Conducted Emission	PASS	
15.205(a)/§15.209(a) 15.407(b)(1) 15.407(b)(4) 15.407(b)(8)	Radiated Emissions and Band Edge	PASS	
15.407 (e) 789033 D02 General U-NII	26dB Emission Bandwidth and 6dB Occupied Bandwidth	PASS	
15.407(a)(1) 15.407 (a)(3) i	Power Spectral Density	PASS	
15.407(a)(1) 15.407 (a)(3) i 15.407(a)(12)	Maximum Conducted Output Power	PASS	
15.407(b)(1) 15.407(b)(4) 15.407(b)(8)	Conducted Band Edge	PASS	
15.407(g)	Frequency Stability	PASS	
789033 D02 General U-NII	Duty Cycle	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name:	Omega 4	
Test Model No.:	OM-O4	
Product Description	IEEE 802.11 WLAN Mode Supported	☒ 802.11a/n/ac/ax (20MHz channel bandwidth) ☒ 802.11n/ac/ax (40MHz channel bandwidth) ☒ 802.11ac/ax(80MHz channel bandwidth)
	Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0~MCS7; 802.11ac(VHT20/VHT40/VHT80):MCS0~MCS9; 802.11ax(HE20/HE40/HE80):MCS0~MCS11;
	Modulation	802.11a (OFDM): BPSK, QPSK, QAM16, QAM64; 802.11n (OFDM): BPSK, QPSK, QAM16, QAM64; 802.11ac (OFDM): BPSK, QPSK, QAM16, QAM64, QAM256; 802.11ax (OFDMA): BPSK, BPSK_DCM, QPSK, QPSK_DCM, QAM16, QAM16_DCM, QAM64, QAM256, QAM1024;
	Operating Frequency Range	☒ 5745-5825 MHz for802.11a/n(HT20)/ac20/ax20; 5755-5795 MHz for 802.11a/n(HT40)/ac40/ax40; 5775MHz for 802.11 ac80/ax80;
	Number of Channels	☒ 5 channels for 802.11a/n20/ac20/ax20 in the 5745-5825MHz band ; 2 channels for 802.11 n40/ac40/ax40 in the 5755-5795 MHz band ; 1 channels for 802.11 ac80/ax80 in the 5775MHz band ;
Support RU:	☒ Full RU ☐ Partial RU	
Channel List	Please refer to the Note.	
Antenna Type and Antenna gain:	FPC antenna, 3.3dBi	
Power supply:	Input: 5 V⎓1 A	
Sample Number:	260424101YP001	

Note:
For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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

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

802.11ac/ax(80MHz) Frequency Channel	
Channel	Frequency (MHz)
155	5775

2.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

Pretest Mode	Description
Mode 1	802.11a / n20/ac 20/ax 20 CH149 / CH157 / CH165
Mode 2	802.11n 40/ac40/ax 40 CH151/ CH159
Mode 3	802.11 ac80/ax 80 CH155
Mode 4	Link Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11a / n20/ac 20/ax 20 CH149 / CH157 / CH165
Mode 2	802.11n 40/ac40/ax 40 CH151/ CH159
Mode 3	802.11 ac80/ax 80 CH155
Mode 4	Link Mode

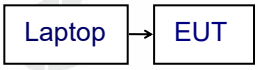
Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

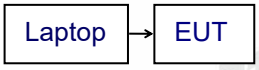
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emissions

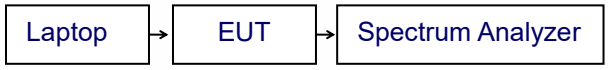
Radiated Emission(30MHz-1GHz)



Radiated Emission(above 1GHz)



RF Conducted Test



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Laptop	Lenovo (Beijing) Co., Ltd	ThinkPad E480	/	AE
E-2	AD ADAPTER	Lenovo (Beijing) Co., Ltd	ADLX65YCC3D	/	AE

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

(3) The test software is the SecureCRTPortable.exe which can set the EUT into the individual test modes.TX Power:default.

3. TEST FACILITY AND TEST INSTRUMENT USED

3.1 TEST FACILITY

Guangdong Zhonghan Testing Technology Co., Ltd.
Add. : Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

FCC Registration Number:255941
Designation Number: CN0325
IC Registered No.: 29832
CAB identifier: CN0143

3.2 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Model	Serial No.	Equipment No.	Last Cal.	Next Cal.
1	Receiver	R&S	ESCI	100874	ZH-E005	Apr. 24, 2026	Apr. 23, 2027
2	Loop Antenna	TESEQ	HLA6121	58357	ZH-E036	Sept. 8, 2025	Sept. 7, 2026
3	Amplifier	Schwarzbeck	BBV 9743 B	00378	ZH-E019	Apr. 24, 2026	Apr. 23, 2027
4	Amplifier	Schwarzbeck	BBV 9718 B	00040	ZH-E021	May 8, 2026	May 7, 2027
5	Bilog Antenna	Schwarzbeck	VULB9162	00498	ZH-E017	Apr. 25, 2026	Apr. 24, 2027
6	Horn Antenna	Schwarzbeck	BBHA9120D	02623	ZH-E020	Apr. 25, 2026	Apr. 24, 2027
7	Horn Antenna	A.H.SYSTEMS	SAS574	588	ZH-E062	Oct. 20, 2025	Oct. 19, 2026
8	Amplifier	AEROFLEX	100KHz-40GHz	097	ZH-E063	Oct. 20, 2025	Oct. 19, 2026
9	Spectrum Analyzer	R&S	FSV40	101413	ZH-E064	Apr. 24, 2026	Apr. 23, 2027
10	Spectrum Analyzer	KEYSIGHT	N9020A	MY53420208	ZH-E032	Apr. 24, 2026	Apr. 23, 2027
11	WIDBAND RADIO COMMUNICATION TESTER	R&S	CMW500	109863	ZH-E033	Apr. 24, 2026	Apr. 23, 2027
12	Single Generator	Agilent	N5182A	MY48180575	ZH-E034	Apr. 24, 2026	Apr. 23, 2027
13	Power Sensor	MWRFtest	MW100-RFCB	/	ZH-E066	Apr. 24, 2026	Apr. 23, 2027
14	CABLE	EMToni	DA800-NM-NM-11000MM	/	ZH-E018	Apr. 24, 2026	Apr. 23, 2027

Conduction Test equipment

Item	Equipment	Manufacturer	Model	Serial No.	Equipment No.	Last Cal.	Next Cal.
1	Receiver	R&S	ESCI	100874	ZH-E005	Apr. 24, 2026	Apr. 23, 2027
2	LISN	R&S	ENV216	102794	ZH-E006	Aug. 22, 2025	Aug. 23, 2026
3	ISN CAT 6	Schwarzbeck	NTFM 8158	00318	ZH-E012	Apr. 24, 2026	Apr. 23, 2027
4	ISN CAT 5	Schwarzbeck	CAT5 8158	00343	ZH-E013	Apr. 24, 2026	Apr. 23, 2027
5	Capacitive Voltage Probe	Schwarzbeck	CVP 9222C	00101	ZH-E014	May 8, 2026	May 7, 2027
6	Current Transformer Clamp	Schwarzbeck	SW 9605	SW9605 #209	ZH-E015	May 8, 2026	May 7, 2027
7	CABLE	EMToni	RG223-NM-BNCM-2000MM	/	ZH-E007	Apr. 24, 2026	Apr. 23, 2027

Conducted Test equipment

Item	Equipment	Manufacturer	Model	Serial No.	Equipment No.	Last Cal.	Next Cal.
1	Spectrum Analyzer	R&S	FSV40	101413	ZH-E064	Apr. 24, 2026	Apr. 23, 2027
2	Spectrum Analyzer	KEYSIGHT	N9020A	MY53420208	ZH-E032	Apr. 24, 2026	Apr. 23, 2027
3	Power Sensor	MWRFtest	MW100-RFCB	/	ZH-E066	Apr. 24, 2026	Apr. 23, 2027
4	Constant Temperature and Humidity Test Chamber	OJN	OJN-9606	/	ZH-B008	Apr. 15, 2026	Apr. 14, 2027

3.3 TESTING SOFTWARE

Project	Software name	Edition
RF Conducted	MTS 8310	2.0.0.0
Conducted Emission	EZ-EMC	EMC-CON 3A1.1+
Radiated Emission	EZ-EMC	FA-03A2 RE+

3.4 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	0.92dB
2	RF conducted power	0.16dB
3	Conducted spurious emissions	0.21dB
4	All radiated emissions (9k-30MHz)	4.68dB
5	All radiated emissions (30-1GHz)	5.1dB
6	All radiated emissions (1-6GHz)	3.9dB
7	All radiated emissions (6GHz-18GHz)	4.3dB
8	All radiated emissions (18-40GHz)	4.65dB
9	Temperature	0.5°C
10	Humidity	2%
11	Occupied Bandwidth	4.96%
12	RF Power Density	0.77dB
13	DFS Detection Thresholds	U95% = 2 x uc = 2 x 1.23 = 1.94(dB) U95% = 2 x uc = 2 x 0.03 = 0.03(s)

Decision Rule

☒ Uncertainty is not included

☐ Uncertainty is included

4.EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10-2020+Cor.1-2023
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

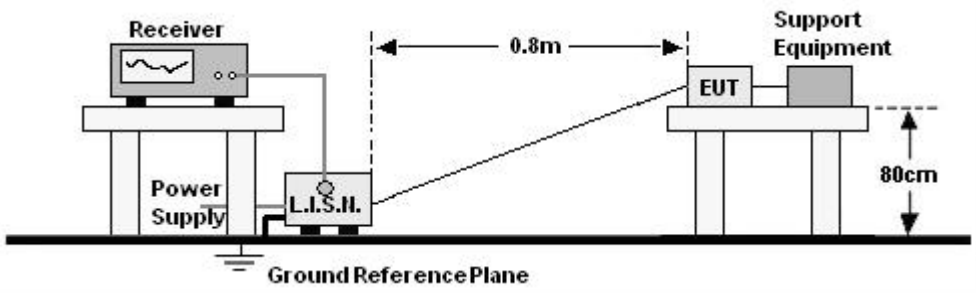
d. LISN at least 80 cm from nearest part of EUT chassis.

e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP

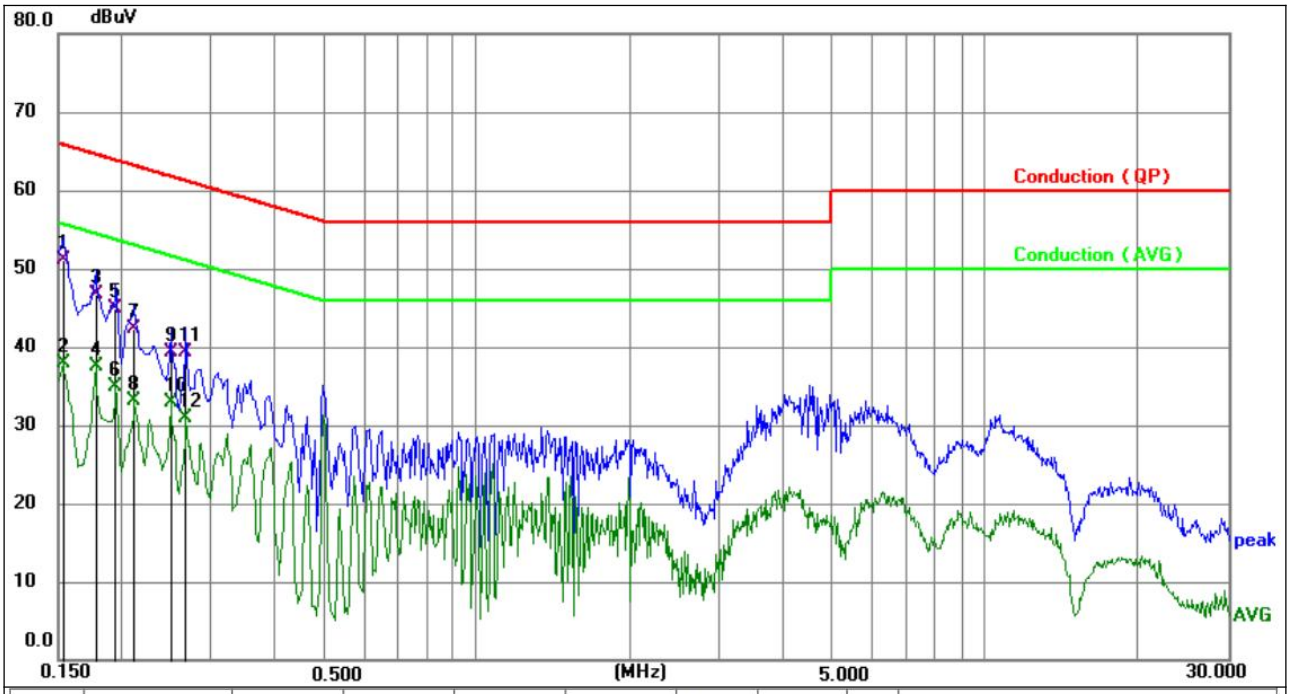


4.1.5 EUT OPERATING CONDITIONS

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.

4.1.6 Test Result

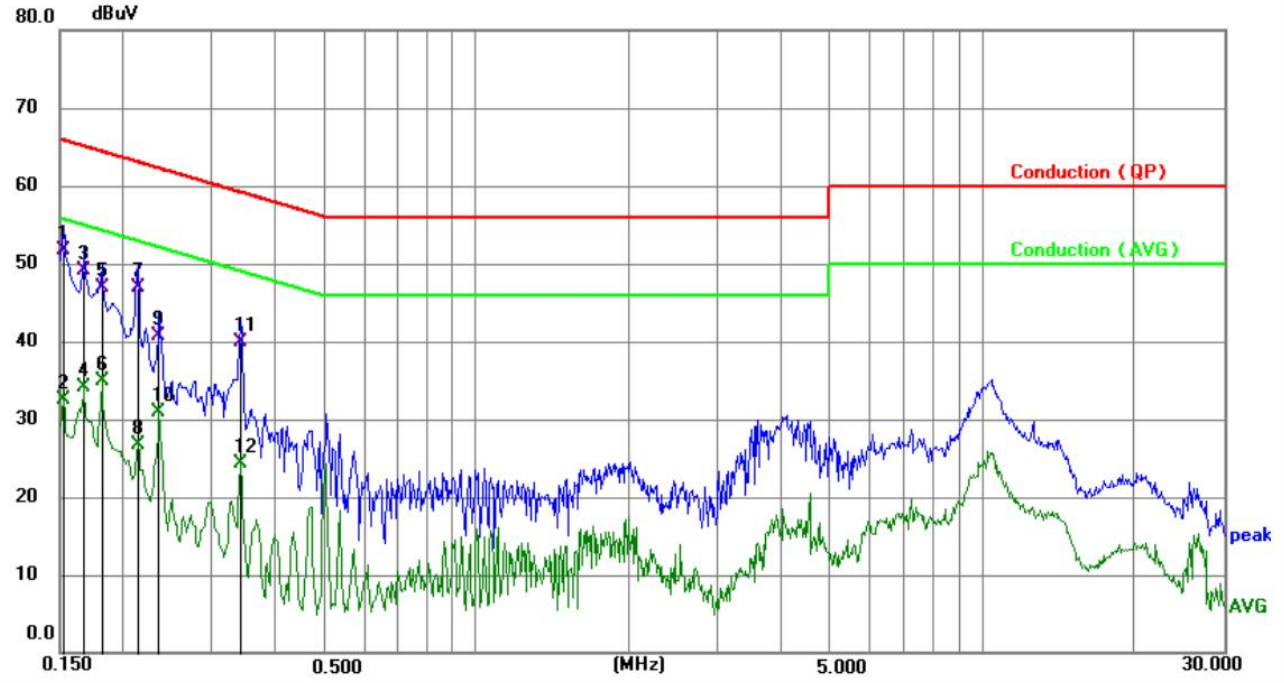
Temperature:	24.3℃	Relative Humidity :	53.2%
Pressure:	1010kPa	Phase :	L
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1532	41.20	9.89	51.09	65.82	-14.73	QP	P	
2	0.1532	28.06	9.89	37.95	55.82	-17.87	AVG	P	
3	0.1770	36.83	9.90	46.73	64.63	-17.90	QP	P	
4	0.1770	27.52	9.90	37.42	54.63	-17.21	AVG	P	
5	0.1944	34.96	9.91	44.87	63.85	-18.98	QP	P	
6	0.1944	24.96	9.91	34.87	53.85	-18.98	AVG	P	
7	0.2116	32.44	9.91	42.35	63.14	-20.79	QP	P	
8	0.2116	23.26	9.91	33.17	53.14	-19.97	AVG	P	
9	0.2490	29.40	9.93	39.33	61.79	-22.46	QP	P	
10	0.2490	23.05	9.93	32.98	51.79	-18.81	AVG	P	
11	0.2670	29.41	9.94	39.35	61.21	-21.86	QP	P	
12	0.2670	21.00	9.94	30.94	51.21	-20.27	AVG	P	

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor
4.The test data shows only the worst case 802.11n40 mode(Channel:5755MHz).

Temperature:	24.3℃	Relative Humidity :	53.2%
Pressure:	1010kPa	Phase :	N
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1524	41.72	9.89	51.61	65.87	-14.26	QP	P	
2	0.1524	22.69	9.89	32.58	55.87	-23.29	AVG	P	
3	0.1676	39.18	9.90	49.08	65.08	-16.00	QP	P	
4	0.1676	24.30	9.90	34.20	55.08	-20.88	AVG	P	
5	0.1814	37.06	9.90	46.96	64.42	-17.46	QP	P	
6	0.1814	25.02	9.90	34.92	54.42	-19.50	AVG	P	
7	0.2130	36.93	9.92	46.85	63.09	-16.24	QP	P	
8	0.2130	16.87	9.92	26.79	53.09	-26.30	AVG	P	
9	0.2353	30.82	9.92	40.74	62.26	-21.52	QP	P	
10	0.2353	21.03	9.92	30.95	52.26	-21.31	AVG	P	
11	0.3410	29.88	9.96	39.84	59.18	-19.34	QP	P	
12	0.3410	14.25	9.96	24.21	49.18	-24.97	AVG	P	

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor
4.The test data shows only the worst case 802.11n40 mode(Channel:5755MHz).

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(d) and 15.209

4.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407(b)(7): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Remark :1. Emission level in dBuV/m=20 log (uV/m)
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
3. Distance extrapolation factor =40log(Specific distance/ test distance)(dB);
Limit line=Specific limits(dBuV) + distance extrapolation factor.

Limits of unwanted emission out of the restricted bands

Frequency (MHz)	EIRP Limits (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5150~5250	-27	68.2
5250~5350	-27	68.2
5470~5725	-27	68.2
5725~5850	-27(Note 2)	68.2
	10(Note 2)	105.2
	15.6(Note 2)	110.8
	27(Note 2)	122.2

NOTE:
1, The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$E=\frac{1000000\sqrt{30P}}{3}$ uV/m, where P is the eirp (Watts)

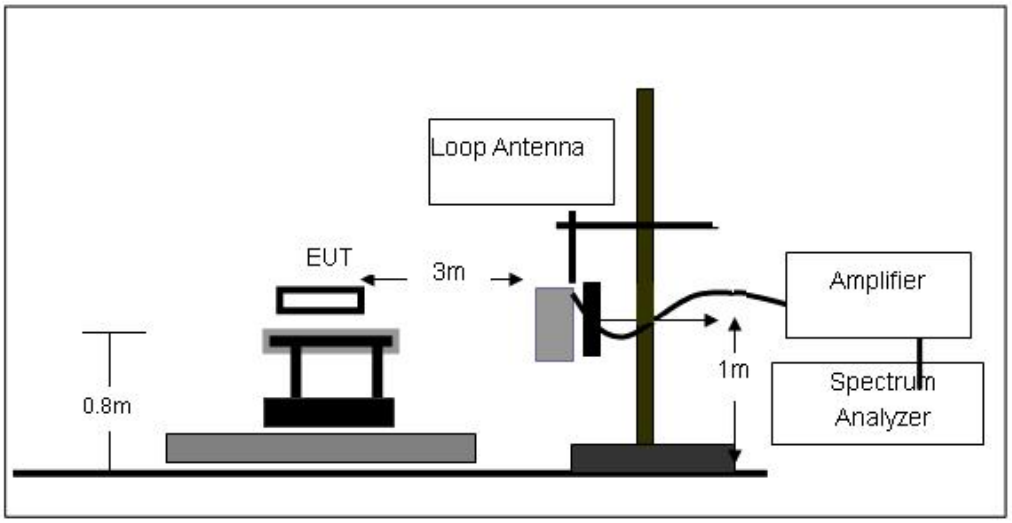
2, According to FCC 16-24,All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

4.2.3 MEASURING INSTRUMENTS

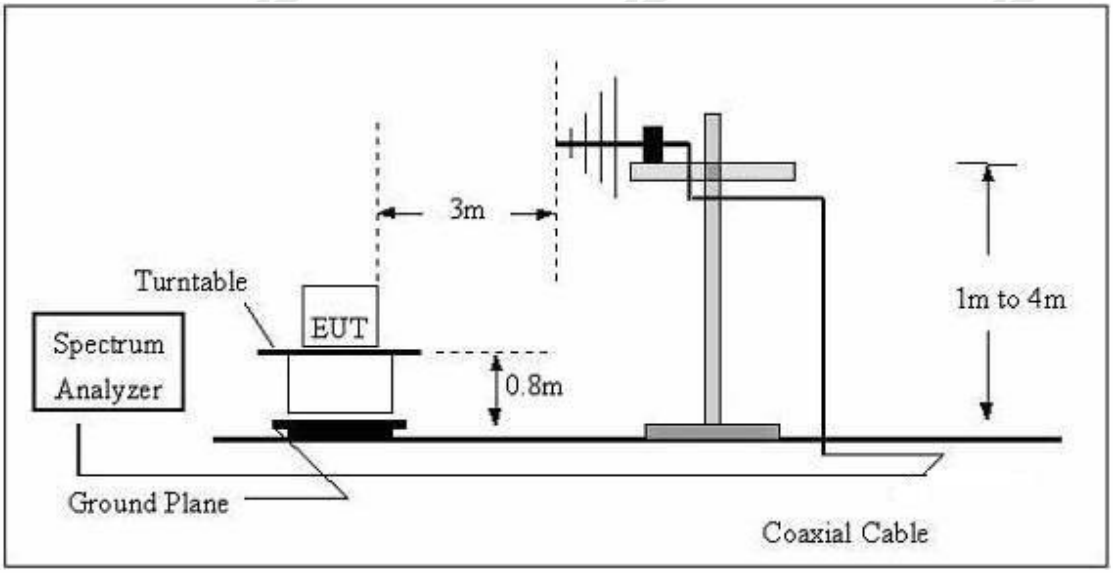
The Measuring equipment is listed in the section 6.3 of this test report.

4.2.4 TEST CONFIGURATION

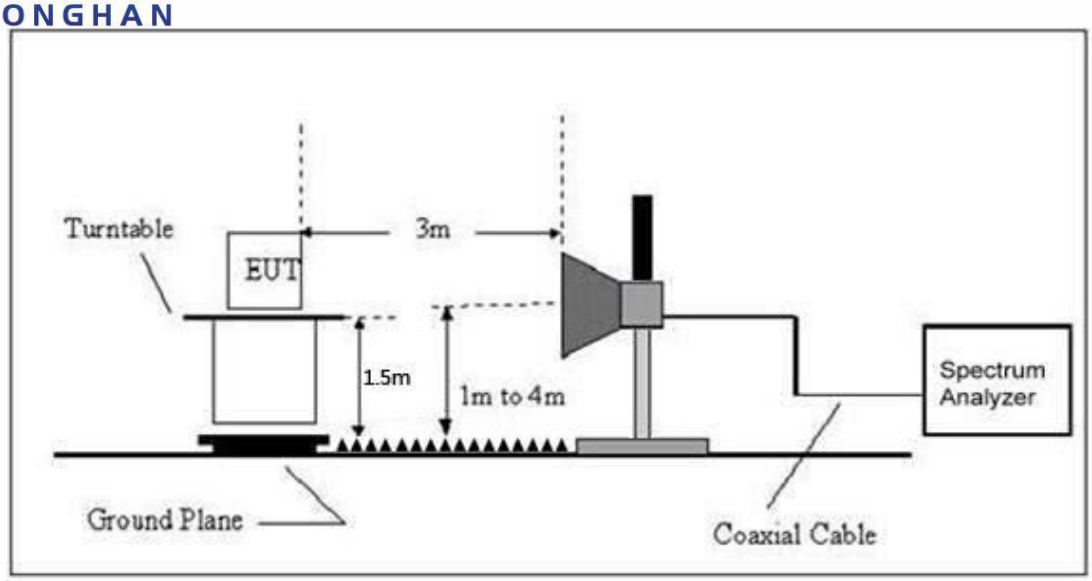
1.For radiated emissions below 30MHz



2.For radiated emissions from 30MHz to 1000MHz



3. Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2020+Cor 1-2023. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020+Cor 1-2023 and CAN/CSA-CEI/IEC CISPR 22.
This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.
Use the following spectrum analyzer settings:

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

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

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

Note:

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

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

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

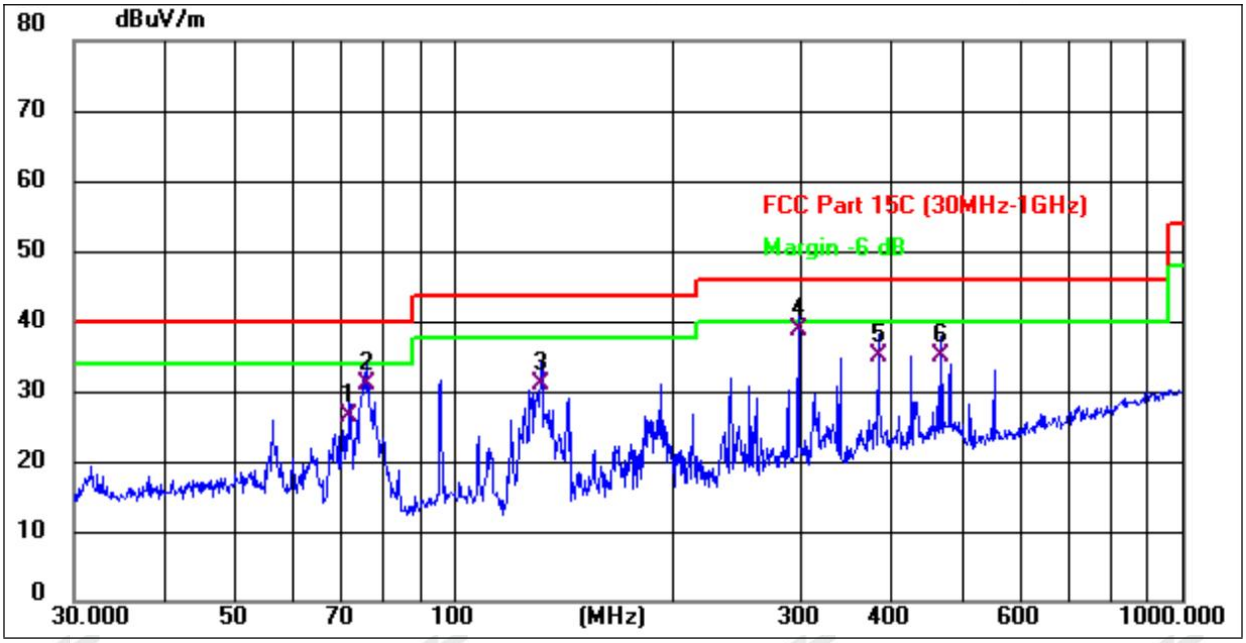
Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower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

4.2.6 TEST RESULT(Between 9KHz – 30MHz)

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

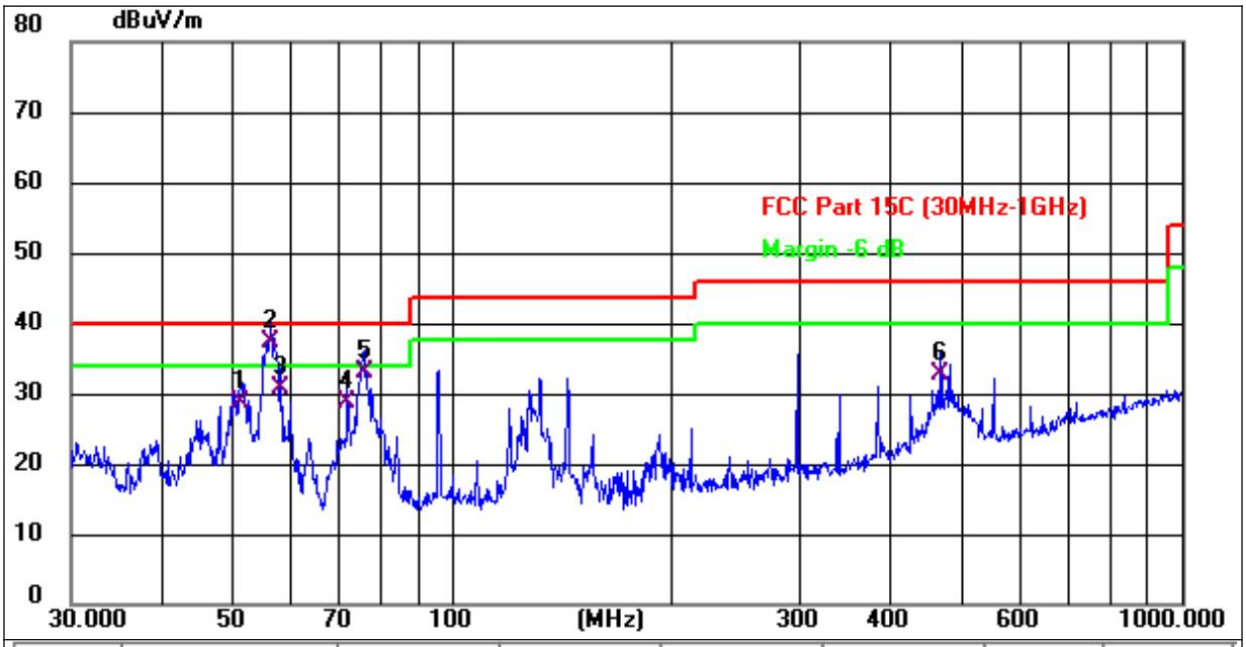
Between 30MHz – 1GHz

Temperature:	25.2℃	Relative Humidity:	50%
Pressure:	1010kPa	Polarization:	Horizontal
Test Voltage:	DC 5V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	71.8320	38.69	-12.28	26.41	40.00	-13.59	QP
2	75.7112	43.84	-12.75	31.09	40.00	-8.91	QP
3	131.7576	43.17	-12.14	31.03	43.50	-12.47	QP
4 *	297.2240	45.89	-7.26	38.63	46.00	-7.37	QP
5	382.5878	40.53	-5.42	35.11	46.00	-10.89	QP
6	467.2350	38.89	-3.91	34.98	46.00	-11.02	QP

Temperature:	25.2℃	Relative Humidity:	50%
Pressure:	1010kPa	Polarization:	Vertical
Test Voltage:	DC 5V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	51.3004	37.39	-8.56	28.83	40.00	-11.17	QP
2 *	56.1974	46.44	-9.04	37.40	40.00	-2.60	QP
3	58.2030	39.88	-9.23	30.65	40.00	-9.35	QP
4	71.8320	40.94	-12.28	28.66	40.00	-11.34	QP
5	75.7112	45.88	-12.75	33.13	40.00	-6.87	QP
6	467.2350	36.74	-3.91	32.83	46.00	-13.17	QP

Remarks:
1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2.The emission levels of other frequencies are very lower than the limit and not show in test report.
3.All mode have been tested,The worst mode is 5.8G 802.11n40 5755MHz is recorded.

Between1GHz – 40GHz

Temperature：	24.2℃	Relative Humidity:	54%
Pressure：	1010 hPa	Test Voltage ：	DC 5V

802.11a

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
5745MHz									
H	17235.0	58.93	30.55	5.77	24.66	58.81	68.2	-9.39	PK
H	17235.0	41.9	30.55	5.77	24.66	41.78	54	-12.22	AV
V	17235.0	58.72	30.33	6.32	24.55	59.26	68.2	-8.94	PK
V	17235.0	41.77	30.33	6.32	24.55	42.31	54	-11.69	AV
5785MHz									
H	17355.0	58.11	30.55	5.77	24.66	57.99	68.2	-10.21	PK
H	17355.0	41.9	30.55	5.77	24.66	41.78	54	-12.22	AV
V	17355.0	58.69	30.33	6.32	24.55	59.23	68.2	-8.97	PK
V	17355.0	43.3	30.33	6.32	24.55	43.84	54	-10.16	AV
5825MHz									
H	17475.0	57.39	30.55	5.77	24.66	57.27	68.2	-10.93	PK
H	17475.0	44.94	30.55	5.77	24.66	44.82	54	-9.18	AV
V	17475.0	56.07	30.33	6.32	24.55	56.61	68.2	-11.59	PK
V	17475.0	44.73	30.33	6.32	24.55	45.27	54	-8.73	AV

802.11n20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
5745MHz									
H	17235.0	59.13	30.55	5.77	24.66	59.01	68.2	-9.19	PK
H	17235.0	41.44	30.55	5.77	24.66	41.32	54	-12.68	AV
V	17235.0	58.05	30.33	6.32	24.55	58.59	68.2	-9.61	PK
V	17235.0	41.56	30.33	6.32	24.55	42.1	54	-11.9	AV
5785MHz									
H	17355.0	58.05	30.55	5.77	24.66	57.93	68.2	-10.27	PK
H	17355.0	41.51	30.55	5.77	24.66	41.39	54	-12.61	AV
V	17355.0	58.59	30.33	6.32	24.55	59.13	68.2	-9.07	PK
V	17355.0	43.19	30.33	6.32	24.55	43.73	54	-10.27	AV
5825MHz									
H	17475.0	56.94	30.55	5.77	24.66	56.82	68.2	-11.38	PK
H	17475.0	41.42	30.55	5.77	24.66	41.3	54	-12.7	AV
V	17475.0	56.23	30.33	6.32	24.55	56.77	68.2	-11.43	PK
V	17475.0	41.11	30.33	6.32	24.55	41.65	54	-12.35	AV

802.11ac20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
5745MHz									
H	17235.0	57.13	30.55	5.77	24.66	57.01	68.2	-11.19	PK
H	17235.0	42	30.55	5.77	24.66	41.88	54	-12.12	AV
V	17235.0	55.47	30.33	6.32	24.55	56.01	68.2	-12.19	PK
V	17235.0	41.15	30.33	6.32	24.55	41.69	54	-12.31	AV
5785MHz									
H	17355.0	56.8	30.55	5.77	24.66	56.68	68.2	-11.52	PK

H	17355.0	41.48	30.55	5.77	24.66	41.36	54	-12.64	AV
V	17355.0	59.15	30.33	6.32	24.55	59.69	68.2	-8.51	PK
V	17355.0	42.41	30.33	6.32	24.55	42.95	54	-11.05	AV
5825MHz									
H	17475.0	59.21	30.55	5.77	24.66	59.09	68.2	-9.11	PK
H	17475.0	42.85	30.55	5.77	24.66	42.73	54	-11.27	AV
V	17475.0	59.93	30.33	6.32	24.55	60.47	68.2	-7.73	PK
V	17475.0	41.31	30.33	6.32	24.55	41.85	54	-12.15	AV

802.11n40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
5755MHz									
H	17265.0	55.09	30.55	5.77	24.66	54.97	68.2	-13.23	PK
H	17265.0	42.58	30.55	5.77	24.66	42.46	54	-11.54	AV
V	17265.0	56.6	30.33	6.32	24.55	57.14	68.2	-11.06	PK
V	17265.0	44.98	30.33	6.32	24.55	45.52	54	-8.48	AV
5795MHz									
H	17385.0	59.66	30.55	5.77	24.66	59.54	68.2	-8.66	PK
H	17385.0	41.65	30.55	5.77	24.66	41.53	54	-12.47	AV
V	17385.0	55.74	30.33	6.32	24.55	56.28	68.2	-11.92	PK
V	17385.0	42.32	30.33	6.32	24.55	42.86	54	-11.14	AV

802.11ac40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
5755MHz									
H	17265.0	58.52	30.55	5.77	24.66	58.4	68.2	-9.8	PK
H	17265.0	41.02	30.55	5.77	24.66	40.9	54	-13.1	AV
V	17265.0	58.07	30.33	6.32	24.55	58.61	68.2	-9.59	PK
V	17265.0	43.96	30.33	6.32	24.55	44.5	54	-9.5	AV
5795MHz									
H	17385.0	56.75	30.55	5.77	24.66	56.63	68.2	-11.57	PK
H	17385.0	43.81	30.55	5.77	24.66	43.69	54	-10.31	AV
V	17385.0	59.63	30.33	6.32	24.55	60.17	68.2	-8.03	PK
V	17385.0	44.92	30.33	6.32	24.55	45.46	54	-8.54	AV

802.11ac80

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
5775MHz									
H	17385.0	58.84	30.55	5.77	24.66	58.72	68.2	-9.48	PK
H	17385.0	41.47	30.55	5.77	24.66	41.35	54	-12.65	AV
V	17385.0	56.59	30.33	6.32	24.55	57.13	68.2	-11.07	PK
V	17385.0	43.75	30.33	6.32	24.55	44.29	54	-9.71	AV

802.11ax20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
5745MHz									
H	17235.0	57.28	30.55	5.77	24.66	57.16	68.2	-11.04	PK
H	17235.0	42.13	30.55	5.77	24.66	42.01	54	-11.99	AV
V	17235.0	55.63	30.33	6.32	24.55	56.17	68.2	-12.03	PK
V	17235.0	41.16	30.33	6.32	24.55	41.7	54	-12.3	AV
5785MHz									
H	17355.0	56.95	30.55	5.77	24.66	56.83	68.2	-11.37	PK
H	17355.0	41.52	30.55	5.77	24.66	41.4	54	-12.6	AV
V	17355.0	59.28	30.33	6.32	24.55	59.82	68.2	-8.38	PK
V	17355.0	42.48	30.33	6.32	24.55	43.02	54	-10.98	AV
5825MHz									
H	17475.0	59.30	30.55	5.77	24.66	59.18	68.2	-9.02	PK
H	17475.0	42.87	30.55	5.77	24.66	42.75	54	-11.25	AV
V	17475.0	60.08	30.33	6.32	24.55	60.62	68.2	-7.58	PK
V	17475.0	41.45	30.33	6.32	24.55	41.99	54	-12.01	AV

802.11ax40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
5755MHz									
H	17265.0	55.16	30.55	5.77	24.66	55.04	68.2	-13.16	PK
H	17265.0	42.78	30.55	5.77	24.66	42.66	54	-11.34	AV
V	17265.0	56.62	30.33	6.32	24.55	57.16	68.2	-11.04	PK
V	17265.0	45.15	30.33	6.32	24.55	45.69	54	-8.31	AV
5795MHz									
H	17385.0	59.70	30.55	5.77	24.66	59.58	68.2	-8.62	PK
H	17385.0	41.70	30.55	5.77	24.66	41.58	54	-12.42	AV
V	17385.0	55.88	30.33	6.32	24.55	56.42	68.2	-11.78	PK
V	17385.0	42.43	30.33	6.32	24.55	42.97	54	-11.03	AV

802.11ax80

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
5775MHz									
H	17385.0	58.93	30.55	5.77	24.66	58.81	68.2	-9.39	PK
H	17385.0	41.59	30.55	5.77	24.66	41.47	54	-12.53	AV
V	17385.0	56.78	30.33	6.32	24.55	57.32	68.2	-10.88	PK
V	17385.0	43.92	30.33	6.32	24.55	44.46	54	-9.54	AV

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
4. All the modes have been tested and recorded worst mode in the report.

RADIATED Band EMISSION MEASUREMENT

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV /m)	Margin(dB)	Dete ctor Type	Result
	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV /m)	Margin(dB)	Dete ctor Type	Result
802.11a	Low Channel5745MHz										
	H	5650	62.21	30.22	4.85	23.98	60.82	74.00	-13.18	PK	PASS
	H	5650	48.59	30.22	4.85	23.98	47.20	54.00	-6.80	AV	PASS
	H	5725	60.55	30.22	4.85	23.98	59.16	74.00	-14.84	PK	PASS
	H	5725	47.50	30.22	4.85	23.98	46.11	54.00	-7.89	AV	PASS
	V	5650	60.90	30.22	4.85	23.98	59.51	74.00	-14.49	PK	PASS
	V	5650	47.27	30.22	4.85	23.98	45.88	54.00	-8.12	AV	PASS
	V	5725	61.65	30.22	4.85	23.98	60.26	74.00	-13.74	PK	PASS
	V	5725	48.81	30.22	4.85	23.98	47.42	54.00	-6.58	AV	PASS
	High Channel 5825MHz										
	H	5850	61.38	30.22	4.85	23.98	59.99	74.00	-14.01	PK	PASS
	H	5850	48.30	30.22	4.85	23.98	46.91	54.00	-7.09	AV	PASS
	H	5916.4	62.14	30.22	4.85	23.98	60.75	74.00	-13.25	PK	PASS
	H	5916.4	47.94	30.22	4.85	23.98	46.55	54.00	-7.45	AV	PASS
	V	5850	59.61	30.22	4.85	23.98	58.22	74.00	-15.78	PK	PASS
	V	5850	47.61	30.22	4.85	23.98	46.22	54.00	-7.78	AV	PASS
	V	5916.4	62.86	30.22	4.85	23.98	61.47	74.00	-12.53	PK	PASS
	V	5916.4	46.54	30.22	4.85	23.98	45.15	54.00	-8.85	AV	PASS
	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV /m)	Margin(dB)	Dete ctor Type	Result
802.11 n20	Low Channel5745MHz										
	H	5650	62.66	30.22	4.85	23.98	61.27	74.00	-12.73	PK	PASS
	H	5650	46.68	30.22	4.85	23.98	45.29	54.00	-8.71	AV	PASS
	H	5725	61.43	30.22	4.85	23.98	60.04	74.00	-13.96	PK	PASS
	H	5725	47.70	30.22	4.85	23.98	46.31	54.00	-7.69	AV	PASS
	V	5650	60.50	30.22	4.85	23.98	59.11	74.00	-14.89	PK	PASS
	V	5650	48.97	30.22	4.85	23.98	47.58	54.00	-6.42	AV	PASS
	V	5725	59.99	30.22	4.85	23.98	58.60	74.00	-15.40	PK	PASS
	V	5725	48.54	30.22	4.85	23.98	47.15	54.00	-6.85	AV	PASS
	High Channel 5825MHz										
	H	5850	62.71	30.22	4.85	23.98	61.32	74.00	-12.68	PK	PASS
	H	5850	48.19	30.22	4.85	23.98	46.80	54.00	-7.20	AV	PASS
	H	5916.4	62.07	30.22	4.85	23.98	60.68	74.00	-13.32	PK	PASS
	H	5916.4	48.99	30.22	4.85	23.98	47.60	54.00	-6.40	AV	PASS
	V	5850	60.48	30.22	4.85	23.98	59.09	74.00	-14.91	PK	PASS
	V	5850	48.46	30.22	4.85	23.98	47.07	54.00	-6.93	AV	PASS
	V	5916.4	62.49	30.22	4.85	23.98	61.10	74.00	-12.90	PK	PASS
	V	5916.4	46.43	30.22	4.85	23.98	45.04	54.00	-8.96	AV	PASS

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin(dB)	Detector Type	Result
802.11 n40	Low Channel5755MHz										
	H	5720.6	61.33	30.22	4.85	23.98	59.94	74.00	-14.06	PK	PASS
	H	5720.6	47.75	30.22	4.85	23.98	46.36	54.00	-7.64	AV	PASS
	H	5725.0	59.06	30.22	4.85	23.98	57.67	74.00	-16.33	PK	PASS
	H	5725.0	46.31	30.22	4.85	23.98	44.92	54.00	-9.08	AV	PASS
	V	5720.6	62.85	30.22	4.85	23.98	61.46	74.00	-12.54	PK	PASS
	V	5720.6	46.82	30.22	4.85	23.98	45.43	54.00	-8.57	AV	PASS
	V	5725.0	60.72	30.22	4.85	23.98	59.33	74.00	-14.67	PK	PASS
	V	5725.0	46.10	30.22	4.85	23.98	44.71	54.00	-9.29	AV	PASS
	High Channel 5795MHz										
	H	5850.0	61.18	30.22	4.85	23.98	59.79	74.00	-14.21	PK	PASS
	H	5850.0	46.47	30.22	4.85	23.98	45.08	54.00	-8.92	AV	PASS
	H	5853.2	61.97	30.22	4.85	23.98	60.58	74.00	-13.42	PK	PASS
	H	5853.2	46.38	30.22	4.85	23.98	44.99	54.00	-9.01	AV	PASS
	V	5850.0	62.28	30.22	4.85	23.98	60.89	74.00	-13.11	PK	PASS
	V	5850.0	48.27	30.22	4.85	23.98	46.88	54.00	-7.12	AV	PASS
	V	5853.2	60.21	30.22	4.85	23.98	58.82	74.00	-15.18	PK	PASS
	V	5853.2	47.71	30.22	4.85	23.98	46.32	54.00	-7.68	AV	PASS

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin(dB)	Detector Type	Result
802.11 ac20	Low Channel5745MHz										
	H	5650	59.76	30.22	4.85	23.98	58.37	74.00	-15.63	PK	PASS
	H	5650	46.40	30.22	4.85	23.98	45.01	54.00	-8.99	AV	PASS
	H	5725	61.77	30.22	4.85	23.98	60.38	74.00	-13.62	PK	PASS
	H	5725	48.26	30.22	4.85	23.98	46.87	54.00	-7.13	AV	PASS
	V	5650	60.58	30.22	4.85	23.98	59.19	74.00	-14.81	PK	PASS
	V	5650	48.26	30.22	4.85	23.98	46.87	54.00	-7.13	AV	PASS
	V	5725	60.40	30.22	4.85	23.98	59.01	74.00	-14.99	PK	PASS
	V	5725	47.07	30.22	4.85	23.98	45.68	54.00	-8.32	AV	PASS
	High Channel 5825MHz										
	H	5850	62.25	30.22	4.85	23.98	60.86	74.00	-13.14	PK	PASS
	H	5850	46.03	30.22	4.85	23.98	44.64	54.00	-9.36	AV	PASS
	H	5916.4	59.15	30.22	4.85	23.98	57.76	74.00	-16.24	PK	PASS
	H	5916.4	48.80	30.22	4.85	23.98	47.41	54.00	-6.59	AV	PASS
	V	5850	59.70	30.22	4.85	23.98	58.31	74.00	-15.69	PK	PASS
	V	5850	48.68	30.22	4.85	23.98	47.29	54.00	-6.71	AV	PASS
	V	5916.4	61.23	30.22	4.85	23.98	59.84	74.00	-14.16	PK	PASS
	V	5916.4	48.19	30.22	4.85	23.98	46.80	54.00	-7.20	AV	PASS

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin(dB)	Detector Type	Result
802.11 ac40	Low Channel5755MHz										
	H	5720.6	59.14	30.22	4.85	23.98	57.75	74.00	-16.25	PK	PASS
	H	5720.6	47.89	30.22	4.85	23.98	46.50	54.00	-7.50	AV	PASS
	H	5725.0	62.37	30.22	4.85	23.98	60.98	74.00	-13.02	PK	PASS
	H	5725.0	46.42	30.22	4.85	23.98	45.03	54.00	-8.97	AV	PASS
	V	5720.6	60.31	30.22	4.85	23.98	58.92	74.00	-15.08	PK	PASS
	V	5720.6	46.16	30.22	4.85	23.98	44.77	54.00	-9.23	AV	PASS
	V	5725.0	62.09	30.22	4.85	23.98	60.70	74.00	-13.30	PK	PASS
	V	5725.0	46.56	30.22	4.85	23.98	45.17	54.00	-8.83	AV	PASS
	High Channel 5795MHz										
	H	5850.0	62.45	30.22	4.85	23.98	61.06	74.00	-12.94	PK	PASS
	H	5850.0	46.00	30.22	4.85	23.98	44.61	54.00	-9.39	AV	PASS
	H	5853.2	59.67	30.22	4.85	23.98	58.28	74.00	-15.72	PK	PASS
	H	5853.2	47.79	30.22	4.85	23.98	46.40	54.00	-7.60	AV	PASS
	V	5850.0	59.25	30.22	4.85	23.98	57.86	74.00	-16.14	PK	PASS
	V	5850.0	48.64	30.22	4.85	23.98	47.25	54.00	-6.75	AV	PASS
	V	5853.2	61.13	30.22	4.85	23.98	59.74	74.00	-14.26	PK	PASS
	V	5853.2	46.98	30.22	4.85	23.98	45.59	54.00	-8.41	AV	PASS

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin(dB)	Detector Type	Result
802.11 ac80	5775MHz										
	H	5723.8	59.48	30.22	4.85	23.98	58.09	74.00	-15.91	PK	PASS
	H	5723.8	47.26	30.22	4.85	23.98	45.87	54.00	-8.13	AV	PASS
	H	5725.0	60.88	30.22	4.85	23.98	59.49	74.00	-14.51	PK	PASS
	H	5725.0	46.60	30.22	4.85	23.98	45.21	54.00	-8.79	AV	PASS
	V	5723.8	60.44	30.22	4.85	23.98	59.05	74.00	-14.95	PK	PASS
	V	5723.8	48.59	30.22	4.85	23.98	47.20	54.00	-6.80	AV	PASS
	V	5725.0	60.12	30.22	4.85	23.98	58.73	74.00	-15.27	PK	PASS
	V	5725.0	46.11	30.22	4.85	23.98	44.72	54.00	-9.28	AV	PASS

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin(dB)	Detector Type	Result
802.11 ax20	Low Channel5745MHz										
	H	5650	59.89	30.22	4.85	23.98	58.50	74.00	-15.50	PK	PASS
	H	5650	46.46	30.22	4.85	23.98	45.07	54.00	-8.93	AV	PASS
	H	5725	61.88	30.22	4.85	23.98	60.49	74.00	-13.51	PK	PASS
	H	5725	48.40	30.22	4.85	23.98	47.01	54.00	-6.99	AV	PASS
	V	5650	60.70	30.22	4.85	23.98	59.31	74.00	-14.69	PK	PASS
	V	5650	48.30	30.22	4.85	23.98	46.91	54.00	-7.09	AV	PASS
	V	5725	60.48	30.22	4.85	23.98	59.09	74.00	-14.91	PK	PASS
	V	5725	47.17	30.22	4.85	23.98	45.78	54.00	-8.22	AV	PASS
	High Channel 5825MHz										
	H	5850	62.29	30.22	4.85	23.98	60.90	74.00	-13.10	PK	PASS
	H	5850	46.04	30.22	4.85	23.98	44.65	54.00	-9.35	AV	PASS
	H	5916.4	59.34	30.22	4.85	23.98	57.95	74.00	-16.05	PK	PASS
	H	5916.4	48.84	30.22	4.85	23.98	47.45	54.00	-6.55	AV	PASS
	V	5850	59.87	30.22	4.85	23.98	58.48	74.00	-15.52	PK	PASS
	V	5850	48.81	30.22	4.85	23.98	47.42	54.00	-6.58	AV	PASS
	V	5916.4	61.43	30.22	4.85	23.98	60.04	74.00	-13.96	PK	PASS
	V	5916.4	48.27	30.22	4.85	23.98	46.88	54.00	-7.12	AV	PASS

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin(dB)	Detector Type	Result
802.11 ax40	Low Channel5755MHz										
	H	5720.6	59.22	30.22	4.85	23.98	57.83	74.00	-16.17	PK	PASS
	H	5720.6	47.94	30.22	4.85	23.98	46.55	54.00	-7.45	AV	PASS
	H	5725.0	62.53	30.22	4.85	23.98	61.14	74.00	-12.86	PK	PASS
	H	5725.0	46.61	30.22	4.85	23.98	45.22	54.00	-8.78	AV	PASS
	V	5720.6	60.48	30.22	4.85	23.98	59.09	74.00	-14.91	PK	PASS
	V	5720.6	46.18	30.22	4.85	23.98	44.79	54.00	-9.21	AV	PASS
	V	5725.0	62.24	30.22	4.85	23.98	60.85	74.00	-13.15	PK	PASS
	V	5725.0	46.57	30.22	4.85	23.98	45.18	54.00	-8.82	AV	PASS
	High Channel 5795MHz										
	H	5850.0	62.54	30.22	4.85	23.98	61.15	74.00	-12.85	PK	PASS
	H	5850.0	46.20	30.22	4.85	23.98	44.81	54.00	-9.19	AV	PASS
	H	5853.2	59.69	30.22	4.85	23.98	58.30	74.00	-15.70	PK	PASS
	H	5853.2	47.99	30.22	4.85	23.98	46.60	54.00	-7.40	AV	PASS
	V	5850.0	59.31	30.22	4.85	23.98	57.92	74.00	-16.08	PK	PASS
	V	5850.0	48.82	30.22	4.85	23.98	47.43	54.00	-6.57	AV	PASS
	V	5853.2	61.16	30.22	4.85	23.98	59.77	74.00	-14.23	PK	PASS
	V	5853.2	47.07	30.22	4.85	23.98	45.68	54.00	-8.32	AV	PASS
	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin(dB)	Detector Type	Result
802.11 ax80	5775MHz										
	H	5723.8	59.53	30.22	4.85	23.98	58.14	74.00	-15.86	PK	PASS
	H	5723.8	47.44	30.22	4.85	23.98	46.05	54.00	-7.95	AV	PASS
	H	5725.0	61.05	30.22	4.85	23.98	59.66	74.00	-14.34	PK	PASS
	H	5725.0	46.68	30.22	4.85	23.98	45.29	54.00	-8.71	AV	PASS
	V	5723.8	60.59	30.22	4.85	23.98	59.20	74.00	-14.80	PK	PASS
	V	5723.8	48.62	30.22	4.85	23.98	47.23	54.00	-6.77	AV	PASS
	V	5725.0	60.27	30.22	4.85	23.98	58.88	74.00	-15.12	PK	PASS
	V	5725.0	46.14	30.22	4.85	23.98	44.75	54.00	-9.25	AV	PASS

5.POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(a)

Power limits:

(1) 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.

5.2 TEST PROCEDURE

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

a) Set RBW ≥ 1/T, where T is defined in section II.B.I.a).

b) Set VBW ≥ 3 RBW.

c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.

e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

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

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP

5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS

Temperature：	24.2℃	Relative Humidity:	53%
Pressure：	1010 hPa	Test Voltage ：	DC 5V
Test Mode：	TX		
5.8G(5745-5825 MHz):	Please refer to the Appendix A.5 for 5G WIFI RF Test Data.		

6. 26DB & 6DB &99% EMISSION BANDWIDTH

6.1 APPLIED PROCEDURES / LIMIT

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

6.2 TEST PROCEDURE

a) Set RBW = 1 % to 5 % of the OBW .

b) Set the VBW = 3 · RBW

c) Detector = Peak.

d) Trace mode = max hold.

e) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by -26 dB relative to the maximum level measured in the fundamental emission.

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

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

6.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.4 TEST RESULTS

Temperature：		24.2℃	Relative Humidity:	53%
Pressure：		1010 hPa	Test Voltage ：	DC 5V
Test Mode ：		TX		
-6dB Bandwidth	5.8G(5745-5825 MHz):	Please refer to the Appendix A.3 for 5G WIFI RF Test Data.		
Occupied Channel Bandwidth	5.8G(5745-5825 MHz):	Please refer to the Appendix A.4 for 5G WIFI RF Test Data.		

7.MAXIMUM CONDUCTED OUTPUT POWER

7.1 PLIED PROCEDURES / LIMIT

According to FCC §15.407,
The maximum conduced output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5725~5850	1W

For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.
If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power 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).

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.
If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.
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.
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 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.

For 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.
If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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.
If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.
If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power 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.

7.2 TEST PROCEDURE

The EUT was directly connected to the Spectrum Analyzer

1. Device Configuration
If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see section II.B.).
a) The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (to no lower than 98 percent) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.
b) If continuous transmission (or at least 98 percent duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level with the transmit duration as long as possible and the duty cycle as high as possible.

2. Measurement using a Spectrum Analyzer or EMI Receiver (SA)
Measurement of maximum conducted output power using a spectrum analyzer requires integrating the spectrum across a frequency span that encompasses, at a minimum, either the EBW or the 99-percent occupied bandwidth of the signal.1 However, the EBW must be used to determine bandwidth dependent limits on maximum conducted output power in accordance with § 15.407(a).
a) The test method shall be selected as follows: (i) Method SA-1 or SA-1 Alternative (averaging with the EUT transmitting at full power throughout each sweep) shall be applied if either of the following conditions can be satisfied:
• The EUT transmits continuously (or with a duty cycle ≥ 98 percent).
• Sweep triggering or gating can be implemented in a way that the device transmits at the maximum power control level throughout the duration of each of the instrument sweeps to be averaged. This condition can generally be achieved by triggering the instrument's sweep if the duration of the sweep (with the analyzer configured as in Method SA-1, below) is equal to or shorter than the duration T of each transmission from the EUT and if those transmissions exhibit full power throughout their durations.
(ii) Method SA-2 or SA-2 Alternative (averaging across on and off times of the EUT transmissions, followed by duty cycle correction) shall be applied if the conditions of (i) cannot be achieved and the transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than ± 2 percent.
(iii) Method SA-3 (RMS detection with max hold) or SA-3 Alternative (reduced VBW with max hold) shall be applied if the conditions of (i) and (ii) cannot be achieved.
b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep): (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
(ii) Set RBW = 1 MHz.
(iii) Set VBW ≥ 3 MHz.
(iv) Number of points in sweep ≥ 2 Span / RBW. (This ensures that bin-to-bin spacing is ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
(v) Sweep time = auto.
(vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
(vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
(viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULTS

Temperature：	24.2℃	Relative Humidity:	53%
Pressure：	1010 hPa	Test Voltage ：	DC 5V
Test Mode ：	TX		
5.8G(5745-5825 MHz):	Please refer to the Appendix A.2 for 5G WIFI RF Test Data.		

8.OUT OF BAND EMISSIONS

8.1 APPLICABLE STANDARD

According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(4) Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

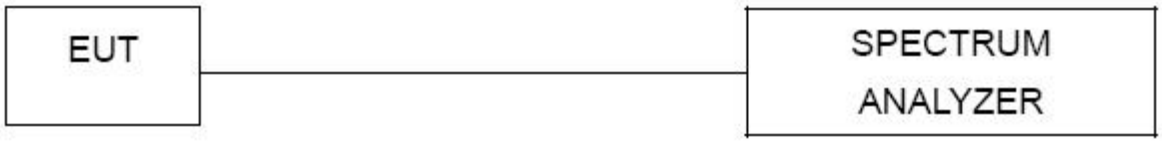
8.2 TEST PROCEDURE

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

8.6 TEST RESULTS

Temperature :	24.2℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	TX		
5.8G(5745-5825 MHz):	Please refer to the Appendix A.6 for 5G WIFI RF Test Data.		

9.SPURIOUS RF CONDUCTED EMISSIONS

9.1 CONFORMANCE LIMIT

Refer to 15.407(b):

Except as shown in paragraph 15.407(b)(7) of this section, the maximum emissionsoutside of the frequency bands of operation shall be attenuated in accordance with the following limits:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;

b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;

c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and

d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

9.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

9.3 TEST SETUP

9.4 TEST PROCEDURE

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2020+Cor 1-2023 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength, and measure frequency range from 30MHz to 1GHz.Set RBW=1MHz and VBW= 3MHz to measure the peak field strength, and measure frequency range from 1GHz to 40GHz.

9.5 TEST RESULTS

Temperature：	24.2℃	Relative Humidity:	53%
Pressure：	1010 hPa	Test Voltage ：	DC 5V
Test Mode ：	TX		
5.8G(5745-5825 MHz):	Please refer to the Appendix A.8 for 5G WIFI RF Test Data.		

Remark1: The measurement frequency range is from 30MHz to the 10th harmonic or 40G of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandedge measurement data.

Remark2: From 26.5GHz to 40GHz,the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

10.FREQUENCY STABILITY MEASUREMENT

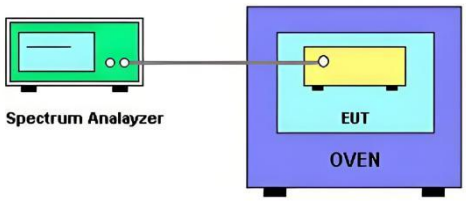
10.1 LIMIT

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

10.2 TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 30 kHz with peak detector and maxhold settings.
5. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
6. Extreme temperature is -20°C~60°C.

10.3 TEST SETUP LAYOUT



10.4 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously un-modulation transmitting mode.

10.5 TEST RESULTS

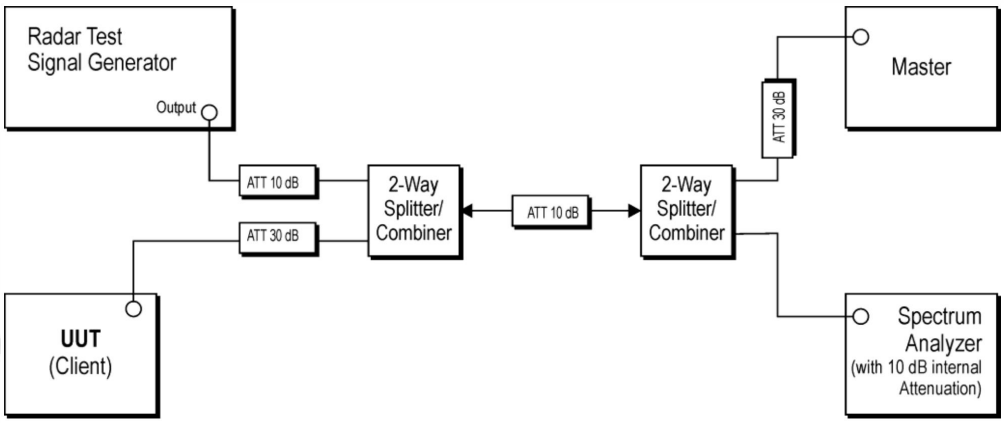
Temperature：	24.2℃	Relative Humidity:	53%
Pressure：	1010 hPa	Test Voltage ：	DC 5V
Test Mode ：	TX		
5.8G(5745-5825 MHz):	Please refer to the Appendix A.7 for 5G WIFI RF Test Data.		

11.CHANNEL MOVE TIME, CHANNEL CLOSING TRANSMISSION TIME

11.1LIMIT

Channel Move Time: within 10 seconds
Channel Closing Transmission Time: 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. (The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.)

11.2 TEST SETUP LAYOUT



11.3TEST PROCEDURE

1.When a Client Device without Radar Detection is the UUT, the Master Device is the Radar Detection Device.
2.A spectrum analyzer is used to establish the test signal level for each radar type.
3. During this process, there are no transmissions by either the Master Device or Client Device.
4. The spectrum analyzer is switched to the zero span (time domain) mode at the frequency of the Radar Waveform generator. The peak detector function of the spectrum analyzer is utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) are set to at least 3 MHz.
5. The measured channels are 5300MHz in 20MHz Bandwidth. The Radar signal was the same as transmitted channels, and injected into the antenna port of AP(master) ,measured the DFS parameters. The master transmitted the test data to client, the transmitted duty cycle is 35%.

11.4TEST RESULTS

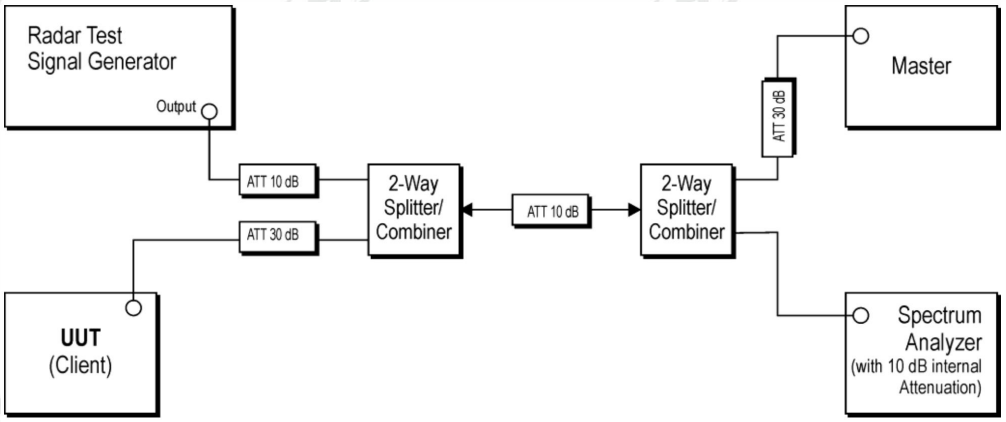
N/A

12.NON-OCCUPANCY PERIOD TEST

12.1LIMIT

A channel that has been flagged as containing a radar system, either by a channel availability check or in-service monitoring, is subject to a non-occupancy period of at least 30 minutes. The non-occupancy period starts at the time when the radar system is detected.

12.2TEST SETUP LAYOUT



12.3TEST RESULTS

N/A

13.DFS DETECTION THRESHOLDS

13.1LIMIT

DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

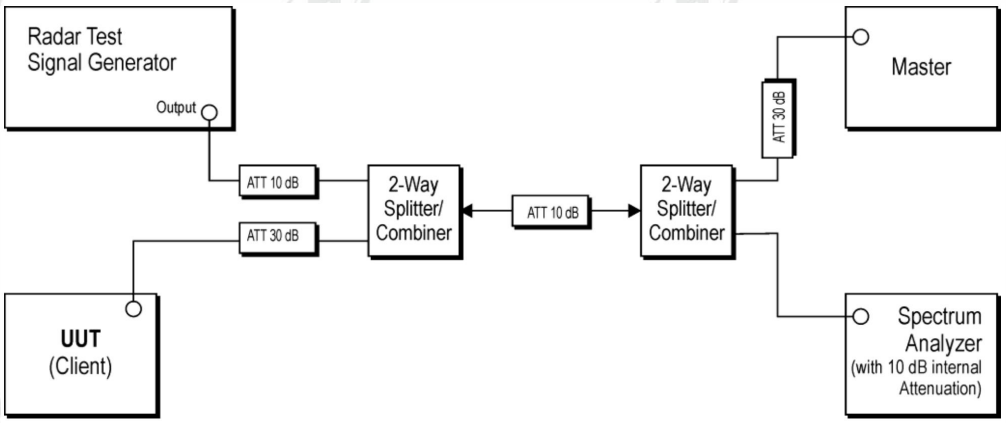
Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

13.2TEST SETUP LAYOUT



13.3TEST RESULTS

N/A

14.ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: (4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
EUT Antenna:	
The antenna is FPC antenna, the best case gain of the antenna is 3.3dBi, reference to the appendix II for details	

15. TEST SETUP PHOTO

Reference to the appendix I for details.

16. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

※※※※※ **END OF REPORT** ※※※※※