TEST REPORT

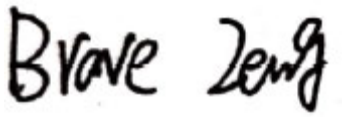
Report No.:	BCTC2403955968-4E
Applicant:	CHINA DRAGON TECHNOLOGY LIMITED
Product Name:	WiFi 11ac + BT5.0 Module
Test Model:	CDW-61821CE-00
Tested Date:	2024-03-05 to 2024-03-13
Issued Date:	2024-03-14

Shenzhen BCTC Testing Co., Ltd.

FCC ID: ROW-61821CE

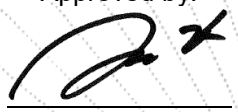
Product Name:	WiFi 11ac + BT5.0 Module
Trademark:	N/A
Model/Type reference:	CDW-61821CE-00 CDW-61821CE-01,CDW-61821CE-10, CDW-61821CE-11
Prepared For:	CHINA DRAGON TECHNOLOGY LIMITED
Address:	B4 Bldg. haosan No.1 Industry Park, Shajing street, B Shenzhen, China
Manufacturer:	CHINA DRAGON TECHNOLOGY LIMITED
Address:	B4 Bldg. haosan No.1 Industry Park, Shajing street, B 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 tested Date:	2024-03-05 to 2024-03-13
Issue Date:	2024-03-14
Report No.:	BCTC2403955968-4E
Test Standards	FCC Part15 15.407 ANSI C63.10-2013 KDB 789033 D02 v02r01
Test Results	PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

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Table Of Content

(Note: N/A means not applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2101722088-4E	2021-02-26	Original	Valid
WTX21X02010720W-1	2021.02.24	Original	Valid
BCTC2403955968-4E	2024-03-14	Update the antenna of the product and change the restricted module to an independent module	Valid

2. Test Summary

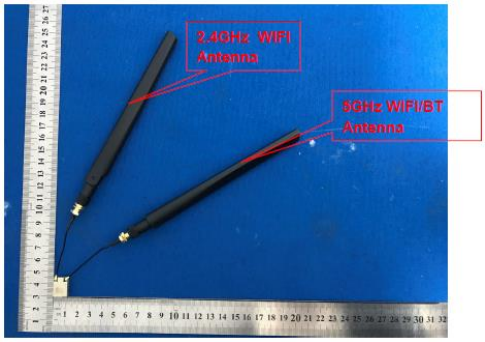
The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	Conducted Emission	15.207	PASS
4	Radiated Spurious Emission	15.247 (d), 15.205	PASS
6	Restricted Band of Operation	15.205	PASS
7	Band Edge (Out of Band Emissions)	15.247(d)	PASS
8	Antenna Requirement	15.203	PASS

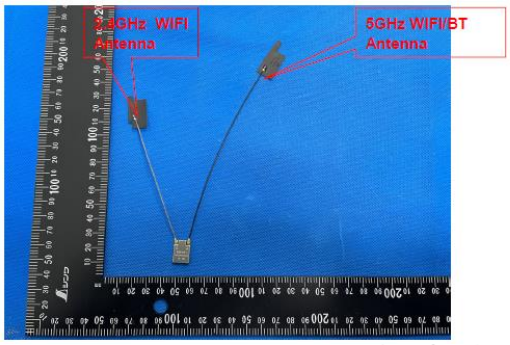
Note: According to the following changes in the product, the restricted module will be changed to an independent module, the Bluetooth version will be upgraded from 4.2 to 5.0, the RF chip board will remain unchanged, and the product antenna will be replaced.

Therefore, this report only updates the product names of the original reports (BCTC2101722088-4E and WTX21X02010720W-1), Conducted Emission and Radiation Emission, Radiation Stray and radiation Sideband.

Original:



new



Note: According to the following changes in the original test report (BCTC2101722088-4E and WTX21X02010720W-1), no changes have been made to the product.

Only more used test instruments, conducted emissions, radiation emissions, radiation sideband, and radiation spurious, Product name,EUT photos.

The following table lists the basic antenna information provided for the EUT:

New

ANT Set	Brand	Model	ANT Gain(dBi)	Frequency (MHz)	ANT Type	Connector Type	Cable Length(mm)
BT	SWARD	SF2349A-1B2-A	0.97	2400-2500	PIFA	i-pex(MHF)	145
5G WIFI			2.53	5000-6000	PIFA	i-pex(MHF)	145
2.4G WIFI	SWARD	SF2350A-1B2-A	2.27	2400-2500	PIFA	i-pex(MHF)	100

Original:

ANT Set	Brand	Model	ANT Gain(dBi)	Frequency (MHz)	ANT Type	Connector Type	Cable Length(mm)
1	KIT	B0H5M7	5	2400-2500	Dipole	i-pex(MHF)	70
			5	5000-6000	Dipole	i-pex(MHF)	70
2.	KIT	B0H5M7	5	2400-2500	Dipole	i-pex(MHF)	70
			5	5000-6000	Dipole	i-pex(MHF)	70

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.

1	3m camber Radiated spurious emission(9kHz-30MHz)	U=3.7dB
2	3m camber 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 Adjacent channel power	U=1.38dB
6	Conducted output power uncertainty Above 1G	U=1.576dB
7	Conducted output power uncertainty below 1G	U=1.28dB
8	humidity uncertainty	U=5.3%
9	Temperature uncertainty	U=0.59℃

4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	CDW-61821CE-00 CDW-61821CE-01,CDW-61821CE-10, CDW-61821CE-11
Model differences:	All the model are the same circuit and RF module, except model names.
Hardware Version:	v2.0
Software Version:	2024.0.10.213
IEEE 802.11 WLAN Mode Supported	802.11a/n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11a/n(HT20)/ac20; 5190-5230MHz for 802.11n(HT40)/ac40; 5210MHz for 802.11 ac80; 5260-5320MHz for 802.11a/n/ac(HT20); 5270-5310MHz for 802.11n/ac(HT40); 5290MHz for 802.11 ac80; 5745-5825 MHz for 802.11a/n(HT20)/ac20; 5755-5795 MHz for 802.11a/n(HT40)/ac40; 5775MHz for 802.11 ac80;
Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;
Number Of Channel	4 channels for 802.11a/n20 in the 5180-5240MHz band 2 channels for 802.11 n40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80 in the 5210MHz band 5 channels for 802.11a/n20 in the 5745-5825MHz band ; 2 channels for 802.11 n40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band ;
Antenna installation:	PIFA antenna
Antenna Gain:	5.1G: 2.53dBi 5.3G WIFI:1.11dBi 5.8G WIFI:2.01dBi Remark: ☒ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☐ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Type of device:	Indoor devices
Ratings:	DC 3.3V

Remark:
Details of 5260 MHz – 5320 MHz, please refer to report: WTX21X02010720W-1

4.2 Test Setup Configuration

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

4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Data Cable	Remark
E-1	WiFi 11ac + BT5.0 Module	N/A	CDW-61821 CE-00	N/A	N/A	EUT
E-2	Adapter	N/A	BTCT005	N/A	N/A	Auxiliary
E-3	mouse	N/A	BTCT002	N/A	N/A	Auxiliary
E-4	keyboard	N/A	BTCT003	N/A	N/A	Auxiliary
E-5	Computer monitor	N/A	BTCT004	N/A	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.6M	VGA cable unshielded

Notes:

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

4.4 Channel List

(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-3) 5745MHz-5825MHz				
Bandwidth	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency**
20MHz	149	5745	153	5765
	157	5785	161	5805
	165	5825		
40MHz	151	5775	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/ax 20 CH52/ CH56/ CH 64 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40/ax 40 CH54/ CH 62 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/CH 58/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	**MP_Kit_RTL**		
Parameters	DEF	DEF	DEF
Frequency	5180MHz	5200MHz	5240MHz
Frequency	5190MHz	5210MHz	5230MHz
Frequency	5260MHz	5280MHz	5320MHz
Frequency	5270MHz	5310MHz	5290MHz
Frequency	5745MHz	5785MHz	5825MHz
Frequency	5755MHz	5775MHz	5795MHz

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

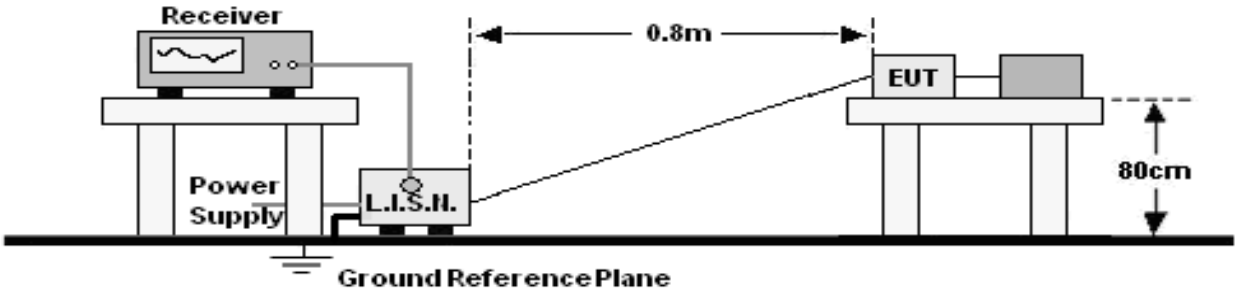
5.2 Test Instrument Used

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

Radiated Emissions Test (966 Chamber01)					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 29, 2023	May 28, 2024
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024
Amplifier	SKET	LAPA_01G18G-45dB	SK2021040901	May 15, 2023	May 14, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024
Amplifier(18GHz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 15, 2023	May 14, 2024
Horn Antenna18GHz-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: 1. *Decreasing linearly with logarithm of frequency. 2. The lower limit shall apply at the transition frequencies.		

6.3 Test Procedure

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

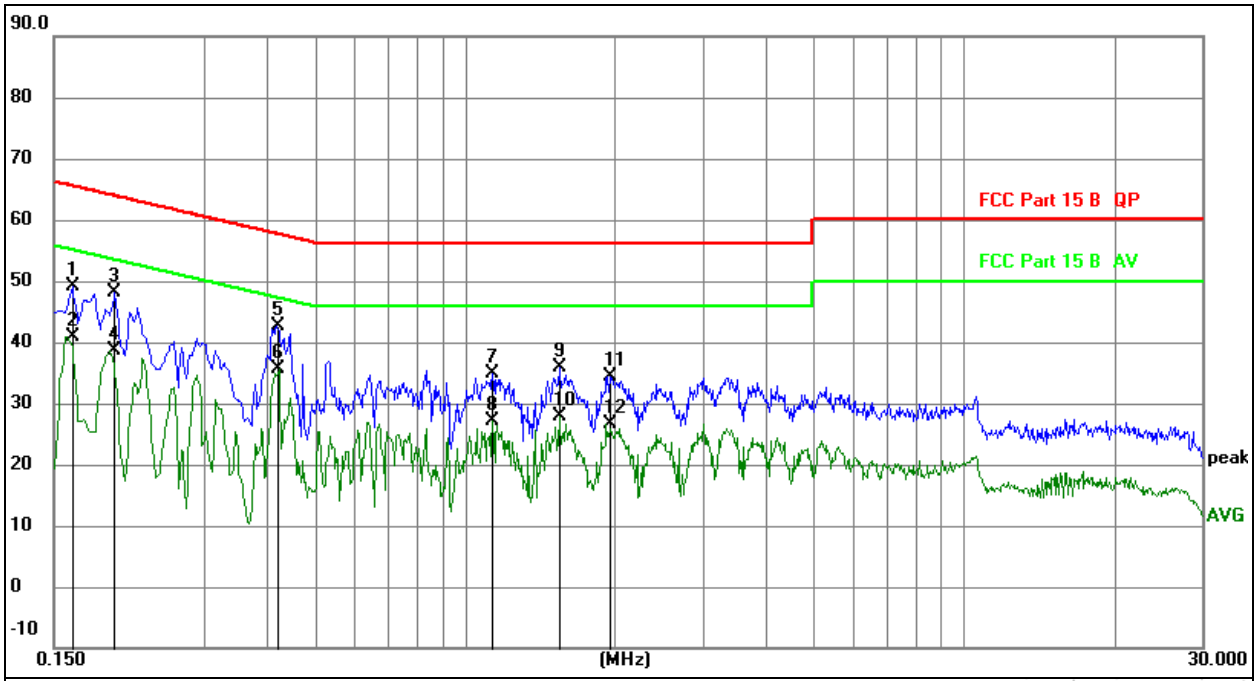
a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak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

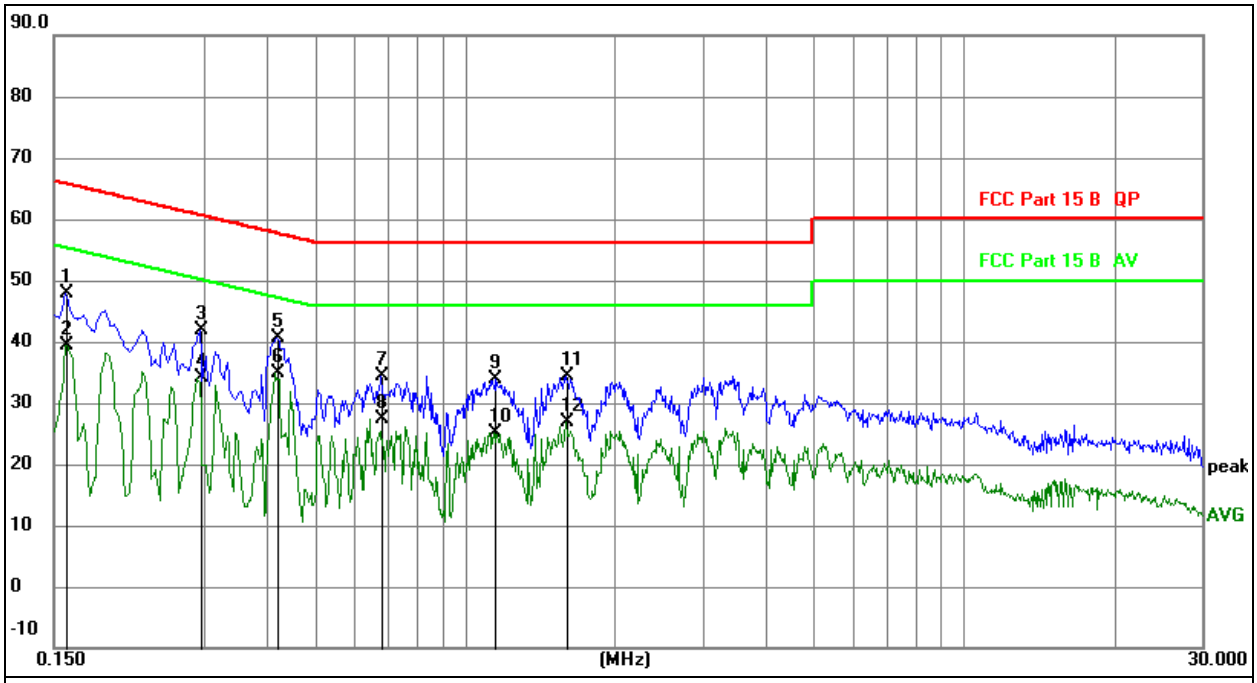
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1633	29.42	19.76	49.18	65.29	-16.11	QP
2		0.1633	21.19	19.76	40.95	55.29	-14.34	AVG
3		0.1986	28.29	19.83	48.12	63.67	-15.55	QP
4		0.1986	18.74	19.83	38.57	53.67	-15.10	AVG
5		0.4193	22.82	19.84	42.66	57.46	-14.80	QP
6	*	0.4193	15.83	19.84	35.67	47.46	-11.79	AVG
7		1.1352	14.90	19.95	34.85	56.00	-21.15	QP
8		1.1352	7.15	19.95	27.10	46.00	-18.90	AVG
9		1.5436	16.05	19.95	36.00	56.00	-20.00	QP
10		1.5436	7.89	19.95	27.84	46.00	-18.16	AVG
11		1.9489	14.39	19.95	34.34	56.00	-21.66	QP
12		1.9489	6.69	19.95	26.64	46.00	-19.36	AVG

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



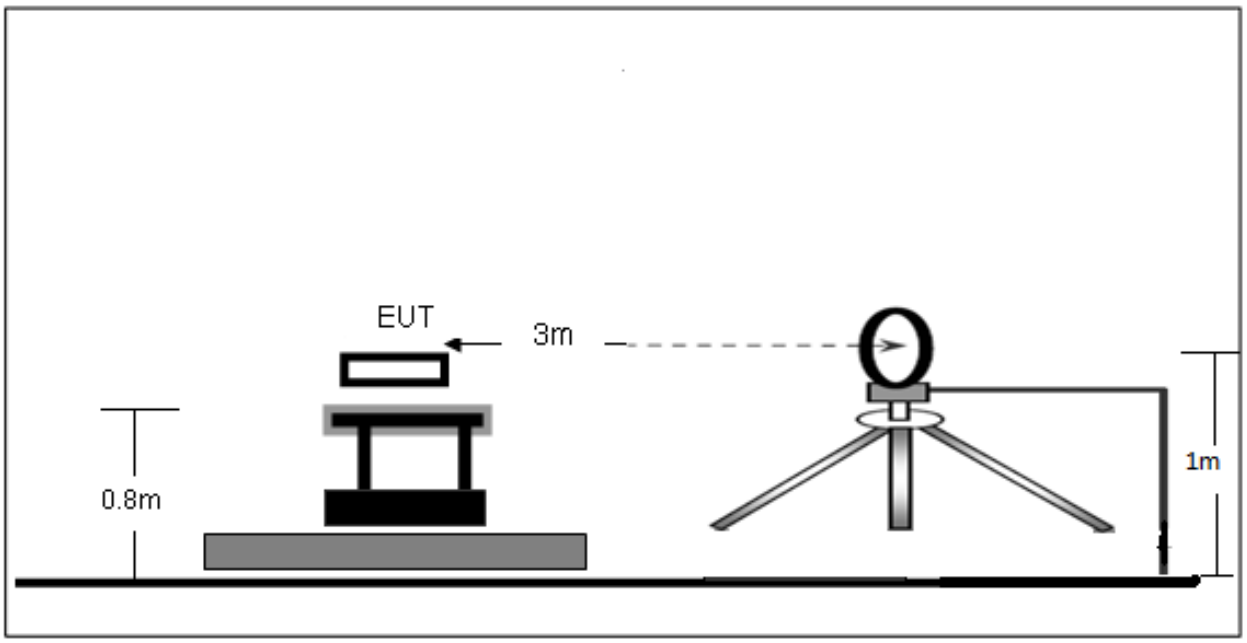
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1590	28.15	19.75	47.90	65.52	-17.62	QP
2		0.1590	19.74	19.75	39.49	55.52	-16.03	AVG
3		0.2940	21.97	19.83	41.80	60.41	-18.61	QP
4		0.2940	14.29	19.83	34.12	50.41	-16.29	AVG
5		0.4200	20.87	19.84	40.71	57.45	-16.74	QP
6	*	0.4200	15.07	19.84	34.91	47.45	-12.54	AVG
7		0.6809	14.52	19.84	34.36	56.00	-21.64	QP
8		0.6809	7.55	19.84	27.39	46.00	-18.61	AVG
9		1.1534	13.98	19.95	33.93	56.00	-22.07	QP
10		1.1534	5.08	19.95	25.03	46.00	-20.97	AVG
11		1.5944	14.54	19.95	34.49	56.00	-21.51	QP
12		1.5944	6.98	19.95	26.93	46.00	-19.07	AVG

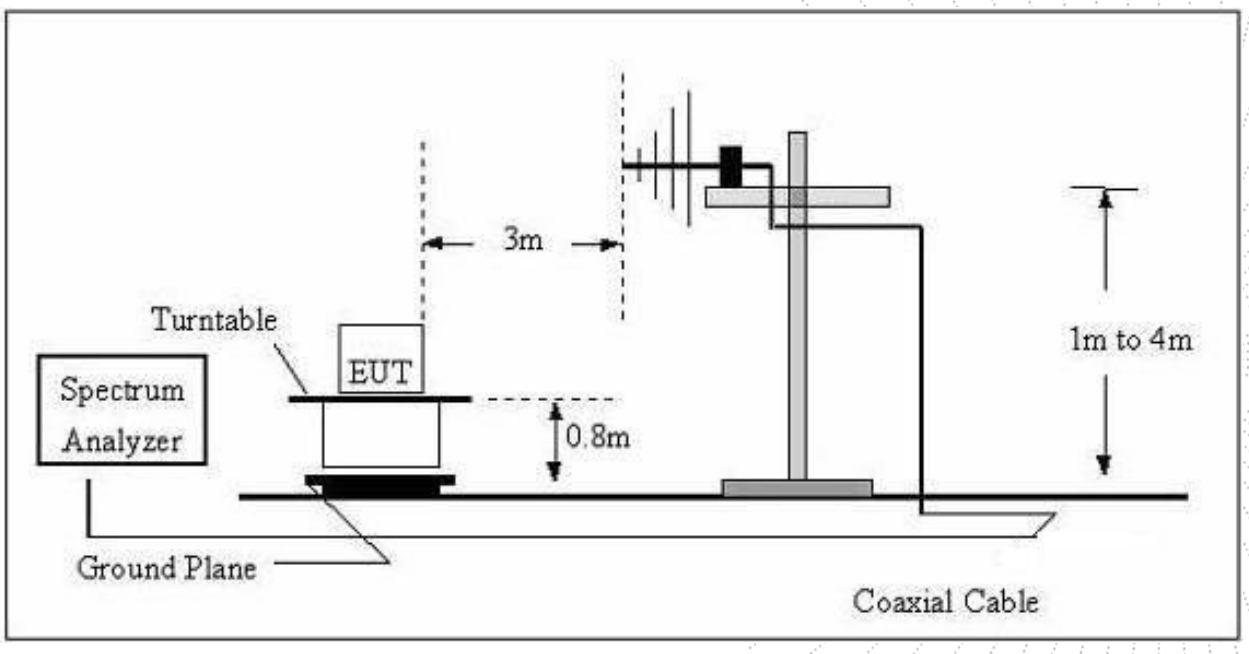
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

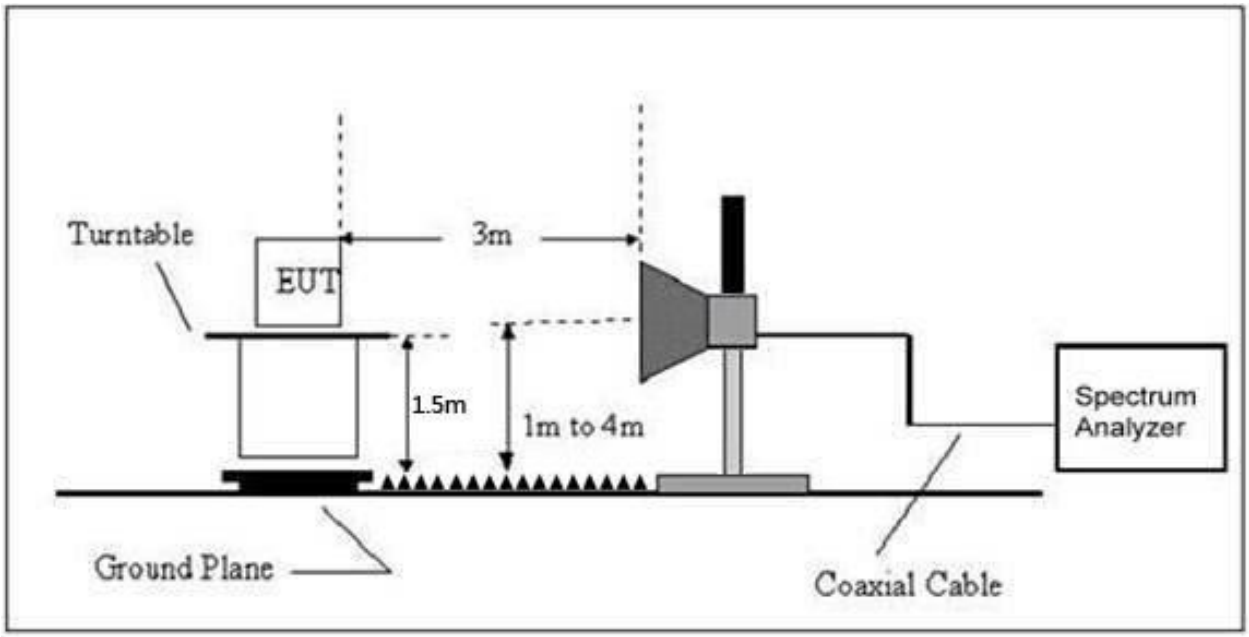
（A）Radiated Emission Test-Up Frequency Below 30MHz



（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	Field Strength	Distance	Field Strength Limit at 3m Distance	
(MHz)	uV/m	(m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))}$ + 80
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))}$ + 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 / 10 for Average
Remark:	duty cycle >=98%

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
Remark:	duty cycle >=98%		

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.

7.4 EUT Operating Conditions

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

7.5 Test Result

Below 30MHz

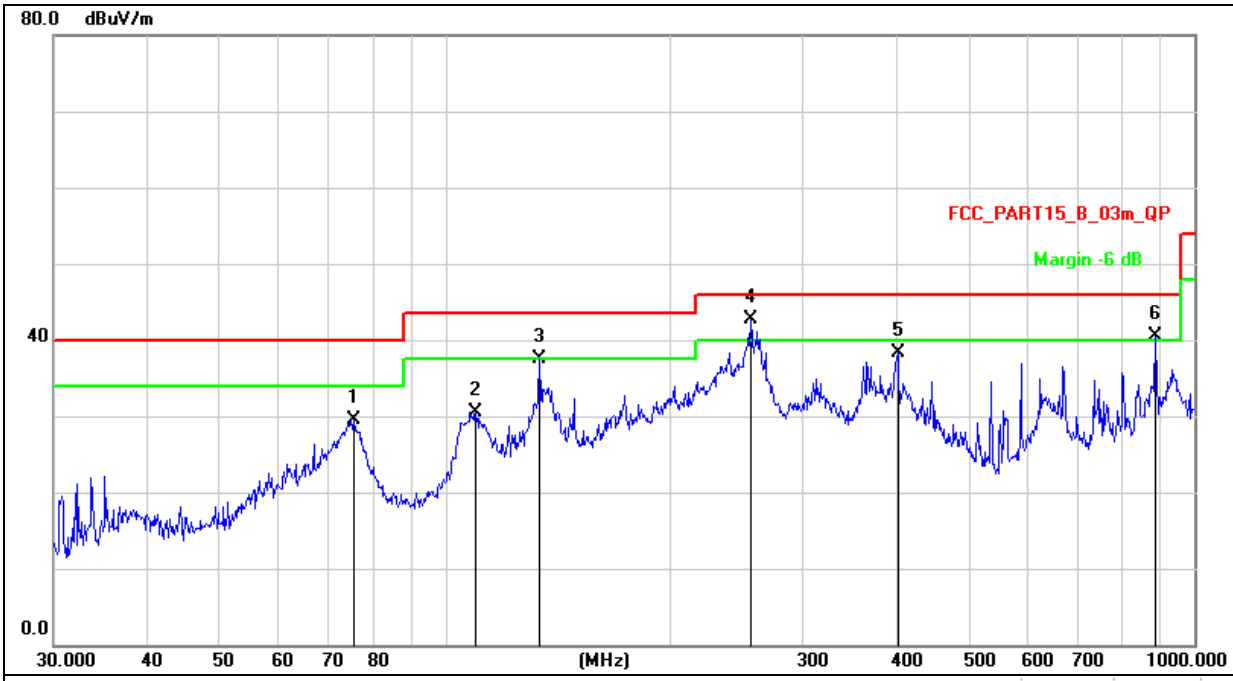
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 5	Polarization:	---

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

Note:
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
Distance extrapolation factor =40 log (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

Between 30MHz – 1GHz

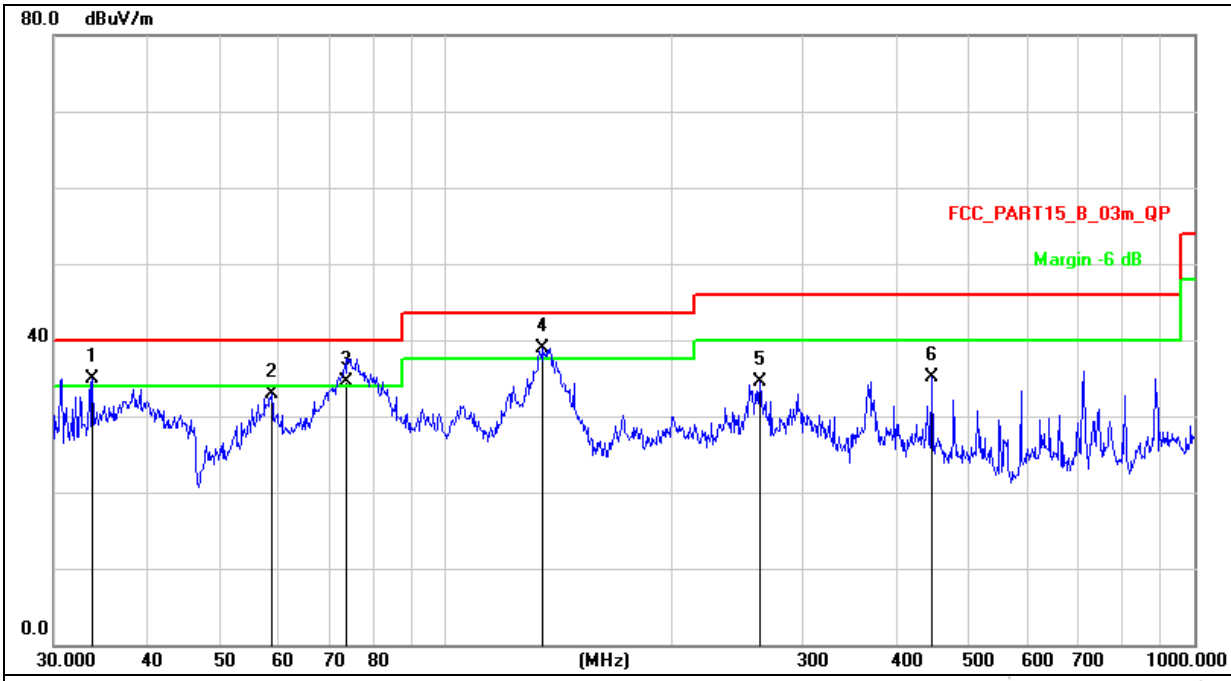
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 5	Test Voltage :	AC120V/60Hz



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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		75.4464	48.52	-18.95	29.57	40.00	-10.43	QP
2		109.7960	47.19	-16.62	30.57	43.50	-12.93	QP
3		133.6188	55.76	-18.28	37.48	43.50	-6.02	QP
4	*	255.6231	56.80	-14.17	42.63	46.00	-3.37	QP
5		401.8385	49.20	-10.80	38.40	46.00	-7.60	QP
6	!	887.6099	43.86	-3.33	40.53	46.00	-5.47	QP

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 5	Test Voltage :	AC120V/60Hz



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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	!	33.7986	50.87	-15.92	34.95	40.00	-5.05	QP
2		58.6126	47.96	-15.06	32.90	40.00	-7.10	QP
3	!	73.7462	53.18	-18.66	34.52	40.00	-5.48	QP
4	*	135.0319	57.36	-18.38	38.98	43.50	-4.52	QP
5		262.8955	48.44	-14.02	34.42	46.00	-11.58	QP
6		446.4141	44.95	-9.93	35.02	46.00	-10.98	QP

Between 1GHz – 40GHz(The worst case)

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	4434.10	74.71	-20.73	53.98	68.20	-14.22	PK
Vertical	4434.10	59.55	-20.73	38.82	54.00	-15.18	AV
Vertical	10360.16	64.26	-9.36	54.90	68.20	-13.30	PK
Vertical	10360.16	49.83	-9.36	40.47	54.00	-13.53	AV
Vertical	15540.12	64.02	-7.84	56.18	74.00	-17.82	PK
Vertical	15540.12	49.87	-7.84	42.03	54.00	-11.97	AV
Horizontal	4434.13	72.24	-20.73	51.51	68.20	-16.69	PK
Horizontal	4434.13	59.43	-20.73	38.70	54.00	-15.30	AV
Horizontal	10360.18	63.42	-9.36	54.06	68.20	-14.14	PK
Horizontal	10360.18	49.85	-9.36	40.49	54.00	-13.51	AV
Horizontal	15540.04	63.51	-7.84	55.67	74.00	-18.33	PK
Horizontal	15540.04	49.47	-7.84	41.63	54.00	-12.37	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.19	74.78	-20.42	54.36	74.00	-19.64	PK
Vertical	4592.19	59.36	-20.42	38.94	54.00	-15.06	AV
Vertical	10400.03	64.96	-9.30	55.66	68.20	-12.54	PK
Vertical	10400.03	49.86	-9.30	40.56	54.00	-13.44	AV
Vertical	15600.14	63.18	-7.82	55.36	74.00	-18.64	PK
Vertical	15600.14	49.85	-7.82	42.03	54.00	-11.97	AV
Horizontal	4592.17	72.32	-20.42	51.90	74.00	-22.10	PK
Horizontal	4592.17	59.10	-20.42	38.68	54.00	-15.32	AV
Horizontal	10400.01	61.21	-9.30	51.91	68.20	-16.29	PK
Horizontal	10400.01	49.68	-9.30	40.38	54.00	-13.62	AV
Horizontal	15600.04	63.60	-7.82	55.78	74.00	-18.22	PK
Horizontal	15600.04	49.85	-7.82	42.03	54.00	-11.97	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.05	72.45	-20.12	52.33	74.00	-21.67	PK
Vertical	4739.05	59.33	-20.12	39.21	54.00	-14.79	AV
Vertical	10480.13	60.21	-9.18	51.03	68.20	-17.17	PK
Vertical	10480.13	49.04	-9.18	39.86	54.00	-14.14	AV
Vertical	15720.09	64.73	-7.78	56.95	74.00	-17.05	PK
Vertical	15720.09	49.73	-7.78	41.95	54.00	-12.05	AV
Horizontal	4739.10	72.75	-20.12	52.63	74.00	-21.37	PK
Horizontal	4739.10	59.24	-20.12	39.12	54.00	-14.88	AV
Horizontal	10480.05	64.41	-9.18	55.23	68.20	-12.97	PK
Horizontal	10480.05	49.44	-9.18	40.26	54.00	-13.74	AV
Horizontal	15720.14	64.75	-7.78	56.97	74.00	-17.03	PK
Horizontal	15720.14	49.46	-7.78	41.68	54.00	-12.32	AV

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

Test Mode:	TX(5.1G) - 802.11n-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 (5180 MHz)-Above 1G							
Vertical	4434.08	70.43	-20.73	49.70	68.20	-18.50	PK
Vertical	4434.08	59.39	-20.73	38.66	54.00	-15.34	AV
Vertical	10360.12	60.52	-9.36	51.16	68.20	-17.04	PK
Vertical	10360.12	49.91	-9.36	40.55	54.00	-13.45	AV
Vertical	15540.03	61.11	-7.84	53.27	74.00	-20.73	PK
Vertical	15540.03	49.35	-7.84	41.51	54.00	-12.49	AV
Horizontal	4434.05	70.53	-20.73	49.80	68.20	-18.40	PK
Horizontal	4434.05	59.20	-20.73	38.47	54.00	-15.53	AV
Horizontal	10360.01	60.60	-9.36	51.24	68.20	-16.96	PK
Horizontal	10360.01	49.60	-9.36	40.24	54.00	-13.76	AV
Horizontal	15540.06	64.50	-7.84	56.66	74.00	-17.34	PK
Horizontal	15540.06	49.99	-7.84	42.15	54.00	-11.85	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.20	74.56	-20.42	54.15	74.00	-19.85	PK
Vertical	4592.20	59.98	-20.42	39.56	54.00	-14.44	AV
Vertical	10400.19	60.99	-9.30	51.69	68.20	-16.51	PK
Vertical	10400.19	49.50	-9.30	40.20	54.00	-13.80	AV
Vertical	15600.10	62.49	-7.82	54.67	74.00	-19.33	PK
Vertical	15600.10	49.17	-7.82	41.35	54.00	-12.65	AV
Horizontal	4592.12	70.60	-20.42	50.18	74.00	-23.82	PK
Horizontal	4592.12	59.09	-20.42	38.67	54.00	-15.33	AV
Horizontal	10400.00	60.28	-9.30	50.98	68.20	-17.22	PK
Horizontal	10400.00	49.57	-9.30	40.27	54.00	-13.73	AV
Horizontal	15600.10	60.80	-7.82	52.98	74.00	-21.02	PK
Horizontal	15600.10	49.25	-7.82	41.43	54.00	-12.57	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.14	73.11	-20.12	52.99	74.00	-21.01	PK
Vertical	4739.14	59.06	-20.12	38.94	54.00	-15.06	AV
Vertical	10480.10	61.82	-9.18	52.64	68.20	-15.56	PK
Vertical	10480.10	49.40	-9.18	40.22	54.00	-13.78	AV
Vertical	15720.14	62.36	-7.78	54.58	74.00	-19.42	PK
Vertical	15720.14	49.36	-7.78	41.58	54.00	-12.42	AV
Horizontal	4739.19	70.15	-20.12	50.03	74.00	-23.97	PK
Horizontal	4739.19	59.60	-20.12	39.47	54.00	-14.53	AV
Horizontal	10480.07	63.34	-9.18	54.16	68.20	-14.04	PK
Horizontal	10480.07	49.11	-9.18	39.93	54.00	-14.07	AV
Horizontal	15720.05	61.46	-7.78	53.68	74.00	-20.32	PK
Horizontal	15720.05	49.30	-7.78	41.52	54.00	-12.48	AV

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

Test Mode:	TX(5.1G) - 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 (5190 MHz)-Above 1G							
Vertical	4434.14	72.24	-20.73	51.51	68.20	-16.69	PK
Vertical	4434.14	59.76	-20.73	39.03	54.00	-14.97	AV
Vertical	10380.11	64.80	-9.33	55.47	68.20	-12.73	PK
Vertical	10380.11	49.36	-9.33	40.03	54.00	-13.97	AV
Vertical	15570.06	63.83	-7.83	56.00	74.00	-18.00	PK
Vertical	15570.06	49.72	-7.83	41.89	54.00	-12.11	AV
Horizontal	4434.02	71.18	-20.73	50.45	74.00	-23.55	PK
Horizontal	4434.02	59.76	-20.73	39.03	54.00	-14.97	AV
Horizontal	10380.15	64.29	-9.33	54.96	68.20	-13.24	PK
Horizontal	10380.15	49.43	-9.33	40.10	54.00	-13.90	AV
Horizontal	15570.11	63.12	-7.83	55.29	74.00	-18.71	PK
Horizontal	15570.11	49.94	-7.83	42.11	54.00	-11.89	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.15	74.19	-20.12	54.06	68.20	-14.14	PK
Vertical	4739.15	59.70	-20.12	39.58	54.00	-14.42	AV
Vertical	10460.10	64.16	-9.21	54.95	68.20	-13.25	PK
Vertical	10460.10	49.17	-9.21	39.96	54.00	-14.04	AV
Vertical	15690.02	64.00	-7.79	56.21	74.00	-17.79	PK
Vertical	15690.02	49.21	-7.79	41.42	54.00	-12.58	AV
Horizontal	4739.13	72.51	-20.12	52.39	68.20	-15.81	PK
Horizontal	4739.13	59.11	-20.12	38.98	54.00	-15.02	AV
Horizontal	10460.17	64.53	-9.21	55.32	68.20	-12.88	PK
Horizontal	10460.17	49.96	-9.21	40.75	54.00	-13.25	AV
Horizontal	15690.03	64.72	-7.79	56.93	74.00	-17.07	PK
Horizontal	15690.03	49.84	-7.79	42.05	54.00	-11.95	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	4434.01	71.03	-20.73	50.30	68.20	-17.90	PK
Vertical	4434.01	59.58	-20.73	38.85	54.00	-15.15	AV
Vertical	10360.13	63.16	-9.36	53.80	68.20	-14.40	PK
Vertical	10360.13	49.25	-9.36	39.89	54.00	-14.11	AV
Vertical	15540.08	63.42	-7.84	55.58	74.00	-18.42	PK
Vertical	15540.08	49.93	-7.84	42.09	54.00	-11.91	AV
Horizontal	4434.18	71.10	-20.73	50.37	68.20	-17.83	PK
Horizontal	4434.18	59.38	-20.73	38.65	54.00	-15.35	AV
Horizontal	10360.06	64.53	-9.36	55.17	68.20	-13.03	PK
Horizontal	10360.06	49.55	-9.36	40.19	54.00	-13.81	AV
Horizontal	15540.14	62.93	-7.84	55.09	74.00	-18.91	PK
Horizontal	15540.14	49.72	-7.84	41.88	54.00	-12.12	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.16	72.20	-20.42	51.78	74.00	-22.22	PK
Vertical	4592.16	59.49	-20.42	39.07	54.00	-14.93	AV
Vertical	10400.12	62.33	-9.30	53.03	68.20	-15.17	PK
Vertical	10400.12	49.39	-9.30	40.09	54.00	-13.91	AV
Vertical	15600.03	63.12	-7.82	55.30	74.00	-18.70	PK
Vertical	15600.03	49.58	-7.82	41.76	54.00	-12.24	AV
Horizontal	4592.02	74.11	-20.42	53.70	74.00	-20.30	PK
Horizontal	4592.02	59.03	-20.42	38.61	54.00	-15.39	AV
Horizontal	10400.02	62.48	-9.30	53.18	68.20	-15.02	PK
Horizontal	10400.02	49.95	-9.30	40.65	54.00	-13.35	AV
Horizontal	15600.02	63.85	-7.82	56.03	74.00	-17.97	PK
Horizontal	15600.02	49.29	-7.82	41.47	54.00	-12.53	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.04	74.98	-20.12	54.86	74.00	-19.14	PK
Vertical	4739.04	59.03	-20.12	38.91	54.00	-15.09	AV
Vertical	10480.18	63.85	-9.18	54.67	68.20	-13.53	PK
Vertical	10480.18	49.49	-9.18	40.31	54.00	-13.69	AV
Vertical	15720.16	63.10	-7.78	55.32	74.00	-18.68	PK
Vertical	15720.16	49.17	-7.78	41.39	54.00	-12.61	AV
Horizontal	4739.13	71.32	-20.12	51.20	74.00	-22.80	PK
Horizontal	4739.13	59.31	-20.12	39.19	54.00	-14.81	AV
Horizontal	10480.13	63.71	-9.18	54.53	68.20	-13.67	PK
Horizontal	10480.13	49.37	-9.18	40.19	54.00	-13.81	AV
Horizontal	15720.00	62.46	-7.78	54.68	74.00	-19.32	PK
Horizontal	15720.00	49.70	-7.78	41.92	54.00	-12.08	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	4434.05	71.10	-20.73	50.36	68.20	-17.84	PK
Vertical	4434.05	59.79	-20.73	39.05	54.00	-14.95	AV
Vertical	10380.16	63.26	-9.33	53.93	68.20	-14.27	PK
Vertical	10380.16	49.13	-9.33	39.80	54.00	-14.20	AV
Vertical	15570.09	60.08	-7.83	52.25	74.00	-21.75	PK
Vertical	15570.09	49.47	-7.83	41.64	54.00	-12.36	AV
Horizontal	4434.09	70.33	-20.73	49.60	74.00	-24.40	PK
Horizontal	4434.09	59.45	-20.73	38.72	54.00	-15.28	AV
Horizontal	10380.15	62.74	-9.33	53.41	68.20	-14.79	PK
Horizontal	10380.15	49.12	-9.33	39.79	54.00	-14.21	AV
Horizontal	15570.12	60.98	-7.83	53.15	74.00	-20.85	PK
Horizontal	15570.12	49.76	-7.83	41.93	54.00	-12.07	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.16	74.30	-20.12	54.18	68.20	-14.02	PK
Vertical	4739.16	59.19	-20.12	39.06	54.00	-14.94	AV
Vertical	10460.01	60.33	-9.21	51.12	68.20	-17.08	PK
Vertical	10460.01	49.47	-9.21	40.26	54.00	-13.74	AV
Vertical	15690.09	60.36	-7.79	52.57	74.00	-21.43	PK
Vertical	15690.09	49.36	-7.79	41.57	54.00	-12.43	AV
Horizontal	4739.18	71.81	-20.12	51.68	68.20	-16.52	PK
Horizontal	4739.18	59.42	-20.12	39.30	54.00	-14.70	AV
Horizontal	10460.07	63.36	-9.21	54.15	68.20	-14.05	PK
Horizontal	10460.07	49.04	-9.21	39.83	54.00	-14.17	AV
Horizontal	15690.06	63.67	-7.79	55.88	74.00	-18.12	PK
Horizontal	15690.06	49.02	-7.79	41.23	54.00	-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) - 802.11ac-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	4434.09	71.89	-20.73	51.16	68.20	-17.04	PK
Vertical	4434.09	59.13	-20.73	38.40	54.00	-15.60	AV
Vertical	10420.13	62.87	-9.27	53.60	68.20	-14.60	PK
Vertical	10420.13	49.83	-9.27	40.56	54.00	-13.44	AV
Vertical	15630.15	61.81	-7.81	54.00	74.00	-20.00	PK
Vertical	15630.15	49.65	-7.81	41.84	54.00	-12.16	AV
Horizontal	4434.14	72.49	-20.73	51.76	68.20	-16.44	PK
Horizontal	4434.14	49.02	-20.73	28.29	54.00	-25.71	AV
Horizontal	10420.00	42.60	9.27	51.87	68.20	-16.33	PK
Horizontal	10420.00	29.76	9.27	39.03	54.00	-14.97	AV
Horizontal	15630.20	62.75	-7.81	54.94	74.00	-19.06	PK
Horizontal	15630.20	49.10	-7.81	41.29	54.00	-12.71	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) - 802.11a

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	4434.18	74.38	-20.73	53.64	68.20	-14.56	PK
Vertical	4434.18	59.92	-20.73	39.19	54.00	-14.81	AV
Vertical	10520.10	61.27	-9.12	52.15	68.20	-16.05	PK
Vertical	10520.10	49.62	-9.12	40.50	54.00	-13.50	AV
Vertical	15780.01	63.32	-7.77	55.55	74.00	-18.45	PK
Vertical	15780.01	49.07	-7.77	41.30	54.00	-12.70	AV
Horizontal	4434.00	71.00	-20.73	50.27	68.20	-17.93	PK
Horizontal	4434.00	59.03	-20.73	38.30	54.00	-15.70	AV
Horizontal	10520.01	60.73	-9.12	51.61	68.20	-16.59	PK
Horizontal	10520.01	49.11	-9.12	39.99	54.00	-14.01	AV
Horizontal	15780.06	62.85	-7.77	55.08	74.00	-18.92	PK
Horizontal	15780.06	49.98	-7.77	42.21	54.00	-11.79	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.17	74.14	-20.42	53.72	74.00	-20.28	PK
Vertical	4592.17	59.86	-20.42	39.44	54.00	-14.56	AV
Vertical	10560.17	61.98	-9.06	52.92	68.20	-15.28	PK
Vertical	10560.17	49.35	-9.06	40.29	54.00	-13.71	AV
Vertical	15840.11	61.95	-7.75	54.20	74.00	-19.80	PK
Vertical	15840.11	49.59	-7.75	41.84	54.00	-12.16	AV
Horizontal	4592.10	72.55	-20.42	52.14	74.00	-21.86	PK
Horizontal	4592.10	59.92	-20.42	39.51	54.00	-14.49	AV
Horizontal	10560.01	62.22	-9.06	53.16	68.20	-15.04	PK
Horizontal	10560.01	49.93	-9.06	40.87	54.00	-13.13	AV
Horizontal	15840.13	61.68	-7.75	53.93	74.00	-20.07	PK
Horizontal	15840.13	49.34	-7.75	41.59	54.00	-12.41	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.05	72.10	-20.12	51.98	74.00	-22.02	PK
Vertical	4739.05	59.63	-20.12	39.50	54.00	-14.50	AV
Vertical	10640.07	63.00	-8.94	54.06	68.20	-14.14	PK
Vertical	10640.07	49.89	-8.94	40.95	54.00	-13.05	AV
Vertical	15960.10	62.97	-7.71	55.26	74.00	-18.74	PK
Vertical	15960.10	49.49	-7.71	41.78	54.00	-12.22	AV
Horizontal	4739.13	70.43	-20.12	50.31	74.00	-23.69	PK
Horizontal	4739.13	59.20	-20.12	39.08	54.00	-14.92	AV
Horizontal	10640.12	60.79	-8.94	51.85	68.20	-16.35	PK
Horizontal	10640.12	49.23	-8.94	40.29	54.00	-13.71	AV
Horizontal	15960.03	64.65	-7.71	56.94	74.00	-17.06	PK
Horizontal	15960.03	49.69	-7.71	41.98	54.00	-12.02	AV

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

Test Mode:	TX(5.3G) - 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	4434.04	72.70	-20.73	51.97	68.20	-16.23	PK
Vertical	4434.04	59.59	-20.73	38.86	54.00	-15.14	AV
Vertical	10520.16	64.45	-9.12	55.33	68.20	-12.87	PK
Vertical	10520.16	49.57	-9.12	40.45	54.00	-13.55	AV
Vertical	15780.03	60.74	-7.77	52.97	74.00	-21.03	PK
Vertical	15780.03	49.94	-7.77	42.17	54.00	-11.83	AV
Horizontal	4434.14	72.85	-20.73	52.12	68.20	-16.08	PK
Horizontal	4434.14	59.47	-20.73	38.73	54.00	-15.27	AV
Horizontal	10520.16	63.63	-9.12	54.51	68.20	-13.69	PK
Horizontal	10520.16	49.06	-9.12	39.94	54.00	-14.06	AV
Horizontal	15780.11	60.42	-7.77	52.65	74.00	-21.35	PK
Horizontal	15780.11	49.04	-7.77	41.27	54.00	-12.73	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.17	74.41	-20.42	53.99	74.00	-20.01	PK
Vertical	4592.17	59.03	-20.42	38.62	54.00	-15.38	AV
Vertical	10560.09	64.53	-9.06	55.47	68.20	-12.73	PK
Vertical	10560.09	49.36	-9.06	40.30	54.00	-13.70	AV
Vertical	15840.15	62.96	-7.75	55.21	74.00	-18.79	PK
Vertical	15840.15	49.77	-7.75	42.02	54.00	-11.98	AV
Horizontal	4592.03	71.47	-20.42	51.06	74.00	-22.94	PK
Horizontal	4592.03	59.83	-20.42	39.42	54.00	-14.58	AV
Horizontal	10560.16	60.35	-9.06	51.29	68.20	-16.91	PK
Horizontal	10560.16	49.02	-9.06	39.96	54.00	-14.04	AV
Horizontal	15840.02	62.76	-7.75	55.01	74.00	-18.99	PK
Horizontal	15840.02	49.51	-7.75	41.76	54.00	-12.24	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.15	73.90	-20.12	53.78	74.00	-20.22	PK
Vertical	4739.15	59.20	-20.12	39.08	54.00	-14.92	AV
Vertical	10640.10	63.43	-8.94	54.49	68.20	-13.71	PK
Vertical	10640.10	49.35	-8.94	40.41	54.00	-13.59	AV
Vertical	15960.11	63.91	-7.71	56.20	74.00	-17.80	PK
Vertical	15960.11	49.98	-7.71	42.27	54.00	-11.73	AV
Horizontal	4739.11	73.72	-20.12	53.60	74.00	-20.40	PK
Horizontal	4739.11	59.37	-20.12	39.25	54.00	-14.75	AV
Horizontal	10640.12	62.66	-8.94	53.72	68.20	-14.48	PK
Horizontal	10640.12	49.92	-8.94	40.98	54.00	-13.02	AV
Horizontal	15960.14	61.70	-7.71	53.99	74.00	-20.01	PK
Horizontal	15960.14	49.27	-7.71	41.56	54.00	-12.44	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	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 (5270 MHz)-Above 1G							
Vertical	4434.04	73.71	-20.73	52.98	68.20	-15.22	PK
Vertical	4434.04	59.06	-20.73	38.33	54.00	-15.67	AV
Vertical	10540.13	63.54	-9.09	54.45	68.20	-13.75	PK
Vertical	10540.13	49.49	-9.09	40.40	54.00	-13.60	AV
Vertical	15810.15	64.21	-7.76	56.45	74.00	-17.55	PK
Vertical	15810.15	49.13	-7.76	41.37	54.00	-12.63	AV
Horizontal	4434.03	74.90	-20.73	54.17	74.00	-19.83	PK
Horizontal	4434.03	59.40	-20.73	38.67	54.00	-15.33	AV
Horizontal	10540.20	64.63	-9.09	55.54	68.20	-12.66	PK
Horizontal	10540.20	49.23	-9.09	40.14	54.00	-13.86	AV
Horizontal	15810.16	62.86	-7.76	55.10	74.00	-18.90	PK
Horizontal	15810.16	49.86	-7.76	42.10	54.00	-11.90	AV
High Channel (5310 MHz)-Above 1G							
Vertical	4739.08	72.37	-20.12	52.25	68.20	-15.95	PK
Vertical	4739.08	59.77	-20.12	39.65	54.00	-14.35	AV
Vertical	10620.07	64.49	-8.97	55.52	68.20	-12.68	PK
Vertical	10620.07	49.58	-8.97	40.61	54.00	-13.39	AV
Vertical	15930.14	62.96	-7.72	55.24	74.00	-18.76	PK
Vertical	15930.14	49.84	-7.72	42.12	54.00	-11.88	AV
Horizontal	4739.13	70.26	-20.12	50.14	68.20	-18.06	PK
Horizontal	4739.13	59.24	-20.12	39.11	54.00	-14.89	AV
Horizontal	10620.19	62.34	-8.97	53.37	68.20	-14.83	PK
Horizontal	10620.19	49.96	-8.97	40.99	54.00	-13.01	AV
Horizontal	15930.11	61.42	-7.72	53.70	74.00	-20.30	PK
Horizontal	15930.11	49.11	-7.72	41.39	54.00	-12.61	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	4434.02	71.48	-20.73	50.75	68.20	-17.45	PK
Vertical	4434.02	59.78	-20.73	39.05	54.00	-14.95	AV
Vertical	10520.10	63.74	-9.12	54.62	68.20	-13.58	PK
Vertical	10520.10	49.03	-9.12	39.91	54.00	-14.09	AV
Vertical	15780.04	61.51	-7.77	53.74	74.00	-20.26	PK
Vertical	15780.04	49.85	-7.77	42.08	54.00	-11.92	AV
Horizontal	4434.09	72.23	-20.73	51.50	68.20	-16.70	PK
Horizontal	4434.09	59.75	-20.73	39.02	54.00	-14.98	AV
Horizontal	10520.03	63.43	-9.12	54.31	68.20	-13.89	PK
Horizontal	10520.03	49.09	-9.12	39.97	54.00	-14.03	AV
Horizontal	15780.19	63.25	-7.77	55.48	74.00	-18.52	PK
Horizontal	15780.19	49.64	-7.77	41.87	54.00	-12.13	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.12	74.87	-20.42	54.46	74.00	-19.54	PK
Vertical	4592.12	59.29	-20.42	38.88	54.00	-15.12	AV
Vertical	10560.06	63.22	-9.06	54.16	68.20	-14.04	PK
Vertical	10560.06	49.83	-9.06	40.77	54.00	-13.23	AV
Vertical	15840.01	61.53	-7.75	53.78	74.00	-20.22	PK
Vertical	15840.01	49.77	-7.75	42.02	54.00	-11.98	AV
Horizontal	4592.09	70.49	-20.42	50.08	74.00	-23.92	PK
Horizontal	4592.09	59.55	-20.42	39.13	54.00	-14.87	AV
Horizontal	10560.12	60.82	-9.06	51.76	68.20	-16.44	PK
Horizontal	10560.12	49.18	-9.06	40.12	54.00	-13.88	AV
Horizontal	15840.17	60.90	-7.75	53.15	74.00	-20.85	PK
Horizontal	15840.17	49.67	-7.75	41.92	54.00	-12.08	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.05	72.05	-20.12	51.93	74.00	-22.07	PK
Vertical	4739.05	59.18	-20.12	39.06	54.00	-14.94	AV
Vertical	10640.11	61.59	-8.94	52.65	68.20	-15.55	PK
Vertical	10640.11	49.86	-8.94	40.92	54.00	-13.08	AV
Vertical	15960.11	60.27	-7.71	52.56	74.00	-21.44	PK
Vertical	15960.11	49.58	-7.71	41.87	54.00	-12.13	AV
Horizontal	4739.13	73.05	-20.12	52.93	74.00	-21.07	PK
Horizontal	4739.13	59.16	-20.12	39.04	54.00	-14.96	AV
Horizontal	10640.16	60.59	-8.94	51.65	68.20	-16.55	PK
Horizontal	10640.16	49.18	-8.94	40.24	54.00	-13.76	AV
Horizontal	15960.18	63.50	-7.71	55.79	74.00	-18.21	PK
Horizontal	15960.18	49.59	-7.71	41.88	54.00	-12.12	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	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 (5270 MHz)-Above 1G							
Vertical	4434.14	70.56	-20.73	49.83	68.20	-18.37	PK
Vertical	4434.14	59.23	-20.73	38.50	54.00	-15.50	AV
Vertical	10540.00	62.67	-9.09	53.58	68.20	-14.62	PK
Vertical	10540.00	49.21	-9.09	40.12	54.00	-13.88	AV
Vertical	15810.18	60.94	-7.76	53.18	74.00	-20.82	PK
Vertical	15810.18	49.39	-7.76	41.63	54.00	-12.37	AV
Horizontal	4434.17	73.08	-20.73	52.34	74.00	-21.66	PK
Horizontal	4434.17	59.51	-20.73	38.78	54.00	-15.22	AV
Horizontal	10540.02	60.76	-9.09	51.67	68.20	-16.53	PK
Horizontal	10540.02	49.49	-9.09	40.40	54.00	-13.60	AV
Horizontal	15810.08	62.15	-7.76	54.39	74.00	-19.61	PK
Horizontal	15810.08	49.77	-7.76	42.01	54.00	-11.99	AV
High Channel (5310 MHz)-Above 1G							
Vertical	4739.17	73.55	-20.12	53.43	68.20	-14.77	PK
Vertical	4739.17	59.65	-20.12	39.53	54.00	-14.47	AV
Vertical	10620.04	63.00	-8.97	54.03	68.20	-14.17	PK
Vertical	10620.04	49.35	-8.97	40.38	54.00	-13.62	AV
Vertical	15930.00	64.28	-7.72	56.56	74.00	-17.44	PK
Vertical	15930.00	49.95	-7.72	42.23	54.00	-11.77	AV
Horizontal	4739.06	74.34	-20.12	54.21	68.20	-13.99	PK
Horizontal	4739.06	59.29	-20.12	39.16	54.00	-14.84	AV
Horizontal	10620.17	61.43	-8.97	52.46	68.20	-15.74	PK
Horizontal	10620.17	49.68	-8.97	40.71	54.00	-13.29	AV
Horizontal	15930.16	62.00	-7.72	54.28	74.00	-19.72	PK
Horizontal	15930.16	49.07	-7.72	41.35	54.00	-12.65	AV

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

Test Mode:	TX(5.3G) - 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	4434.16	73.00	-20.73	52.27	68.20	-15.93	PK
Vertical	4434.16	59.73	-20.73	38.99	54.00	-15.01	AV
Vertical	10580.20	63.86	-9.03	54.83	68.20	-13.37	PK
Vertical	10580.20	49.32	-9.03	40.29	54.00	-13.71	AV
Vertical	15870.20	62.32	-7.74	54.58	74.00	-19.42	PK
Vertical	15870.20	49.35	-7.74	41.61	54.00	-12.39	AV
Horizontal	4434.01	73.71	-20.73	52.98	68.20	-15.22	PK
Horizontal	4434.01	59.68	-20.73	38.94	54.00	-15.06	AV
Horizontal	10580.03	61.46	-9.03	52.43	68.20	-15.77	PK
Horizontal	10580.03	49.38	-9.03	40.35	54.00	-13.65	AV
Horizontal	15870.13	62.76	-7.74	55.02	74.00	-18.98	PK
Horizontal	15870.13	49.96	-7.74	42.22	54.00	-11.78	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	4679.03	73.02	-20.24	52.78	74.00	-21.22	PK
Vertical	4679.03	59.03	-20.24	38.79	54.00	-15.21	AV
Vertical	11490.04	64.47	-8.79	55.68	68.20	-12.52	PK
Vertical	11490.04	49.32	-8.79	40.53	54.00	-13.47	AV
Vertical	17235.17	55.79	-3.18	52.61	68.20	-15.59	PK
Vertical	17235.17	44.89	-3.18	41.71	54.00	-12.29	AV
Horizontal	4679.08	74.16	-20.73	53.43	74.00	-20.57	PK
Horizontal	4679.08	59.70	-20.73	38.97	54.00	-15.03	AV
Horizontal	11490.05	64.28	-8.79	55.49	68.20	-12.71	PK
Horizontal	11490.05	49.42	-8.79	40.63	54.00	-13.37	AV
Horizontal	17235.02	58.72	-3.18	55.54	68.20	-12.66	PK
Horizontal	17235.02	44.40	-3.18	41.22	54.00	-12.78	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.17	71.47	-20.42	51.06	74.00	-22.94	PK
Vertical	4592.17	59.84	-20.42	39.42	54.00	-14.58	AV
Vertical	11570.08	63.64	-8.86	54.78	68.20	-13.42	PK
Vertical	11570.08	49.01	-8.86	40.15	54.00	-13.85	AV
Vertical	17355.20	58.39	-2.52	55.87	68.20	-12.33	PK
Vertical	17355.20	44.93	-2.52	42.41	54.00	-11.59	AV
Horizontal	4592.12	71.59	-20.42	51.18	74.00	-22.82	PK
Horizontal	4592.12	59.30	-20.42	38.89	54.00	-15.11	AV
Horizontal	11570.07	60.38	-8.86	51.52	68.20	-16.68	PK
Horizontal	11570.07	49.50	-8.86	40.64	54.00	-13.36	AV
Horizontal	17355.09	55.92	-2.52	53.40	68.20	-14.80	PK
Horizontal	17355.09	44.95	-2.52	42.43	54.00	-11.57	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.19	73.15	-18.93	54.22	68.20	-13.98	PK
Vertical	6039.19	59.87	-18.93	40.94	54.00	-13.06	AV
Vertical	11650.12	64.38	-8.92	55.46	74.00	-18.54	PK
Vertical	11650.12	49.57	-8.92	40.65	54.00	-13.35	AV
Vertical	17475.14	55.57	-1.86	53.71	68.20	-14.49	PK
Vertical	17475.14	44.39	-1.86	42.53	54.00	-11.47	AV
Horizontal	6039.03	72.78	-18.93	53.85	68.20	-14.35	PK
Horizontal	6039.03	59.64	-18.93	40.71	54.00	-13.29	AV
Horizontal	11650.15	60.34	-8.92	51.42	74.00	-22.58	PK
Horizontal	11650.15	49.13	-8.92	40.21	54.00	-13.79	AV
Horizontal	17475.03	55.78	-1.86	53.92	68.20	-14.28	PK
Horizontal	17475.03	44.31	-1.86	42.45	54.00	-11.55	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	4679.10	72.86	-20.24	52.61	74.00	-21.39	PK
Vertical	4679.10	59.33	-20.24	39.09	54.00	-14.91	AV
Vertical	11490.05	62.63	-8.79	53.84	68.20	-14.36	PK
Vertical	11490.05	49.62	-8.79	40.83	54.00	-13.17	AV
Vertical	17235.02	59.28	-3.18	56.10	68.20	-12.10	PK
Vertical	17235.02	44.73	-3.18	41.55	54.00	-12.45	AV
Horizontal	4679.04	74.65	-20.24	54.41	74.00	-19.59	PK
Horizontal	4679.04	59.15	-20.24	38.91	54.00	-15.09	AV
Horizontal	11490.13	60.03	-8.79	51.24	68.20	-16.96	PK
Horizontal	11490.13	49.63	-8.79	40.84	54.00	-13.16	AV
Horizontal	17235.13	58.99	-3.18	55.81	68.20	-12.39	PK
Horizontal	17235.13	44.31	-3.18	41.13	54.00	-12.87	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.08	74.08	-20.42	53.66	74.00	-20.34	PK
Vertical	4592.08	59.68	-20.42	39.27	54.00	-14.73	AV
Vertical	11570.09	61.87	-8.86	53.01	68.20	-15.19	PK
Vertical	11570.09	49.18	-8.86	40.32	54.00	-13.68	AV
Vertical	17355.11	58.57	-2.52	56.05	68.20	-12.15	PK
Vertical	17355.11	44.10	-2.52	41.58	54.00	-12.42	AV
Horizontal	4592.02	72.52	-20.42	52.11	74.00	-21.89	PK
Horizontal	4592.02	59.46	-20.42	39.04	54.00	-14.96	AV
Horizontal	11570.14	63.01	-8.86	54.15	68.20	-14.05	PK
Horizontal	11570.14	49.02	-8.86	40.16	54.00	-13.84	AV
Horizontal	17355.11	56.40	-2.52	53.88	68.20	-14.32	PK
Horizontal	17355.11	44.47	-2.52	41.95	54.00	-12.05	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.05	73.91	-18.93	54.98	68.20	-13.22	PK
Vertical	6039.05	59.08	-18.93	40.14	54.00	-13.86	AV
Vertical	11650.01	63.25	-8.92	54.33	74.00	-19.67	PK
Vertical	11650.01	49.07	-8.92	40.15	54.00	-13.85	AV
Vertical	17475.13	55.13	-1.86	53.27	68.20	-14.93	PK
Vertical	17475.13	44.63	-1.86	42.77	54.00	-11.23	AV
Horizontal	6039.19	70.10	-18.93	51.17	68.20	-17.03	PK
Horizontal	6039.19	59.29	-18.93	40.35	54.00	-13.65	AV
Horizontal	11650.10	64.67	-8.92	55.75	74.00	-18.25	PK
Horizontal	11650.10	49.69	-8.92	40.77	54.00	-13.23	AV
Horizontal	17475.07	58.81	-1.86	56.95	68.20	-11.25	PK
Horizontal	17475.07	44.53	-1.86	42.67	54.00	-11.33	AV

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

Test Mode:	TX(5.8G) - 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	4679.15	71.39	-20.24	51.15	74.00	-22.85	PK
Vertical	4679.15	59.65	-20.24	39.41	54.00	-14.59	AV
Vertical	11510.04	60.74	-8.81	51.93	74.00	-22.07	PK
Vertical	11510.04	49.36	-8.81	40.55	54.00	-13.45	AV
Vertical	17265.19	55.15	-3.01	52.14	68.20	-16.06	PK
Vertical	17265.19	44.28	-3.01	41.27	54.00	-12.73	AV
Horizontal	4679.01	74.43	-20.24	54.19	74.00	-19.81	PK
Horizontal	4679.01	59.37	-20.24	39.13	54.00	-14.87	AV
Horizontal	11510.07	64.66	-8.81	55.85	74.00	-18.15	PK
Horizontal	11510.07	49.02	-8.81	40.21	54.00	-13.79	AV
Horizontal	17265.01	59.54	-3.01	56.53	68.20	-11.67	PK
Horizontal	17265.01	44.11	-3.01	41.10	54.00	-12.90	AV
High Channel (5795 MHz)-Above 1G							
Vertical	6039.14	71.31	-18.93	52.38	68.20	-15.82	PK
Vertical	6039.14	59.47	-18.93	40.53	54.00	-13.47	AV
Vertical	11590.03	64.69	-8.87	55.82	74.00	-18.18	PK
Vertical	11590.03	49.28	-8.87	40.41	54.00	-13.59	AV
Vertical	17385.16	57.95	-2.35	55.60	68.20	-12.60	PK
Vertical	17385.16	44.14	-2.35	41.79	54.00	-12.21	AV
Horizontal	6039.06	74.87	-18.93	55.94	68.20	-12.26	PK
Horizontal	6039.06	59.37	-18.93	40.44	54.00	-13.56	AV
Horizontal	11590.02	62.80	-8.87	53.93	74.00	-20.07	PK
Horizontal	11590.02	49.35	-8.87	40.48	54.00	-13.52	AV
Horizontal	17385.07	58.35	-2.35	56.00	68.20	-12.20	PK
Horizontal	17385.07	44.05	-2.35	41.70	54.00	-12.30	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	4679.07	74.02	-20.24	53.77	74.00	-20.23	PK
Vertical	4679.07	59.68	-20.24	39.44	54.00	-14.56	AV
Vertical	11490.14	64.75	-8.79	55.96	68.20	-12.24	PK
Vertical	11490.14	49.00	-8.79	40.21	54.00	-13.79	AV
Vertical	17235.20	59.22	-3.18	56.04	68.20	-12.16	PK
Vertical	17235.20	44.33	-3.18	41.15	54.00	-12.85	AV
Horizontal	4679.19	71.76	-20.24	51.52	74.00	-22.48	PK
Horizontal	4679.19	59.78	-20.24	39.53	54.00	-14.47	AV
Horizontal	11490.17	62.99	-8.79	54.20	68.20	-14.00	PK
Horizontal	11490.17	49.56	-8.79	40.77	54.00	-13.23	AV
Horizontal	17235.17	58.55	-3.18	55.37	68.20	-12.83	PK
Horizontal	17235.17	44.01	-3.18	40.83	54.00	-13.17	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.06	70.34	-20.42	49.93	74.00	-24.07	PK
Vertical	4592.06	59.76	-20.42	39.34	54.00	-14.66	AV
Vertical	11570.16	61.46	-8.86	52.60	68.20	-15.60	PK
Vertical	11570.16	49.45	-8.86	40.59	54.00	-13.41	AV
Vertical	17355.02	57.83	-2.52	55.31	68.20	-12.89	PK
Vertical	17355.02	44.35	-2.52	41.83	54.00	-12.17	AV
Horizontal	4592.01	70.39	-20.42	49.98	74.00	-24.02	PK
Horizontal	4592.01	59.59	-20.42	39.18	54.00	-14.82	AV
Horizontal	11570.20	60.85	-8.86	51.99	68.20	-16.21	PK
Horizontal	11570.20	49.50	-8.86	40.64	54.00	-13.36	AV
Horizontal	17355.11	57.28	-2.52	54.76	68.20	-13.44	PK
Horizontal	17355.11	44.11	-2.52	41.59	54.00	-12.41	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.11	71.15	-18.93	52.22	68.20	-15.98	PK
Vertical	6039.11	59.18	-18.93	40.25	54.00	-13.75	AV
Vertical	11650.13	60.66	-8.92	51.74	74.00	-22.26	PK
Vertical	11650.13	49.68	-8.92	40.76	54.00	-13.24	AV
Vertical	17475.17	58.07	-1.86	56.21	68.20	-11.99	PK
Vertical	17475.17	44.78	-1.86	42.92	54.00	-11.08	AV
Horizontal	6039.09	74.68	-18.93	55.75	68.20	-12.45	PK
Horizontal	6039.09	59.54	-18.93	40.61	54.00	-13.39	AV
Horizontal	11650.02	63.41	-8.92	54.49	74.00	-19.51	PK
Horizontal	11650.02	49.46	-8.92	40.54	54.00	-13.46	AV
Horizontal	17475.17	59.96	-1.86	58.10	68.20	-10.10	PK
Horizontal	17475.17	44.32	-1.86	42.46	54.00	-11.54	AV

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

Test Mode:	TX(5.8G) - 802.11ac-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	4679.10	73.79	-20.24	53.54	74.00	-20.46	PK
Vertical	4679.10	59.59	-20.24	39.35	54.00	-14.65	AV
Vertical	11510.18	62.49	-8.81	53.68	74.00	-20.32	PK
Vertical	11510.18	49.31	-8.81	40.50	54.00	-13.50	AV
Vertical	17265.02	56.69	-3.01	53.68	68.20	-14.52	PK
Vertical	17265.02	44.90	-3.01	41.89	54.00	-12.11	AV
Horizontal	4679.06	74.06	-20.24	53.82	74.00	-20.18	PK
Horizontal	4679.06	59.21	-20.24	38.97	54.00	-15.03	AV
Horizontal	11510.19	62.44	-8.81	53.63	74.00	-20.37	PK
Horizontal	11510.19	49.70	-8.81	40.89	54.00	-13.11	AV
Horizontal	17265.12	57.18	-3.01	54.17	68.20	-14.03	PK
Horizontal	17265.12	44.14	-3.01	41.13	54.00	-12.87	AV
High Channel (5795 MHz)-Above 1G							
Vertical	6039.07	71.49	-18.93	52.56	68.20	-15.64	PK
Vertical	6039.07	59.46	-18.93	40.53	54.00	-13.47	AV
Vertical	11590.06	64.91	-8.87	56.04	74.00	-17.96	PK
Vertical	11590.06	49.03	-8.87	40.16	54.00	-13.84	AV
Vertical	17385.08	55.83	-2.35	53.48	68.20	-14.72	PK
Vertical	17385.08	44.98	-2.35	42.63	54.00	-11.37	AV
Horizontal	6039.18	74.28	-18.93	55.35	68.20	-12.85	PK
Horizontal	6039.18	59.08	-18.93	40.15	54.00	-13.85	AV
Horizontal	11590.11	60.05	-8.87	51.18	74.00	-22.82	PK
Horizontal	11590.11	49.71	-8.87	40.84	54.00	-13.16	AV
Horizontal	17385.15	58.57	-2.35	56.22	68.20	-11.98	PK
Horizontal	17385.15	44.22	-2.35	41.87	54.00	-12.13	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	4679.07	70.96	-20.24	50.72	74.00	-23.28	PK
Vertical	4679.07	59.73	-20.24	39.49	54.00	-14.51	AV
Vertical	11550.02	63.54	-8.84	54.70	74.00	-19.30	PK
Vertical	11550.02	49.73	-8.84	40.89	54.00	-13.11	AV
Vertical	17325.11	57.56	-2.68	54.88	68.20	-13.32	PK
Vertical	17325.11	44.03	-2.68	41.35	54.00	-12.65	AV
Horizontal	4679.12	71.48	-20.24	51.23	74.00	-22.77	PK
Horizontal	4679.12	59.04	-20.24	38.80	54.00	-15.20	AV
Horizontal	11550.08	63.00	-8.84	54.16	74.00	-19.84	PK
Horizontal	11550.08	49.20	-8.84	40.36	54.00	-13.64	AV
Horizontal	17325.12	59.20	-2.68	56.52	68.20	-11.68	PK
Horizontal	17325.12	44.35	-2.68	41.67	54.00	-12.33	AV

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

Radiated band edge

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Remark:	N/A

- ☒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

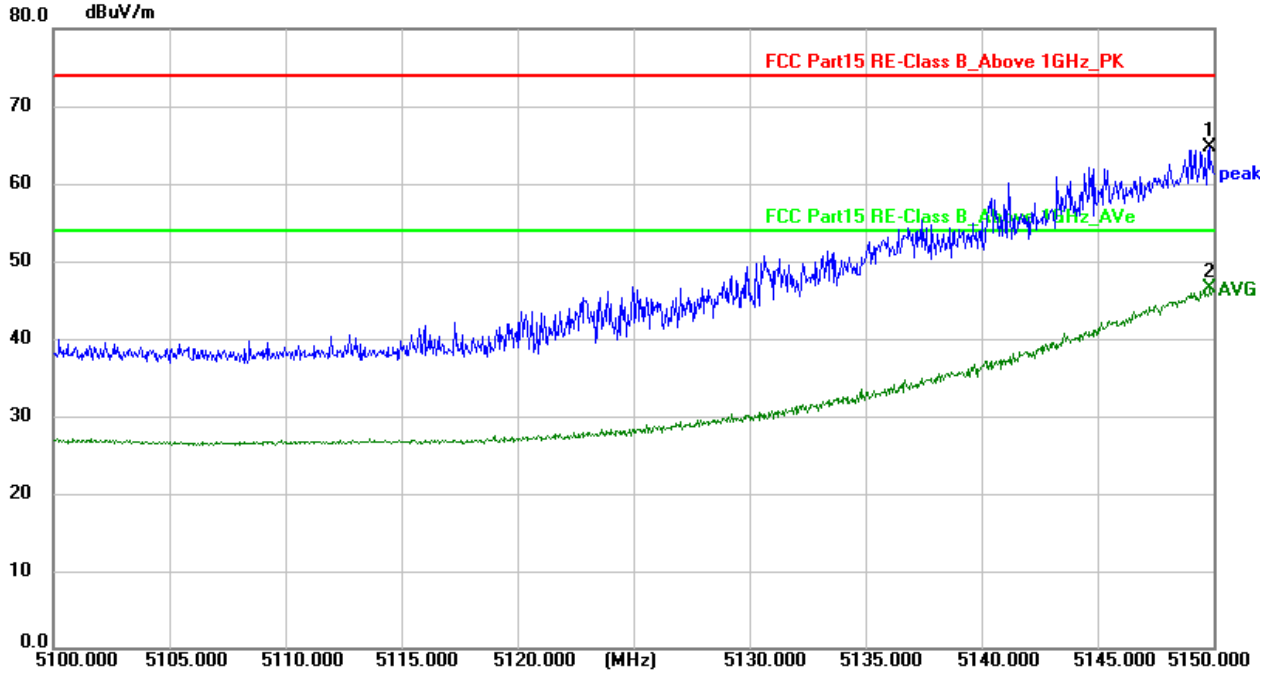
Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
(2) Emission Level= Reading Level+Correct Factor.
(3) Correct Factor= Ant_F + Cab_L - Preamp

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

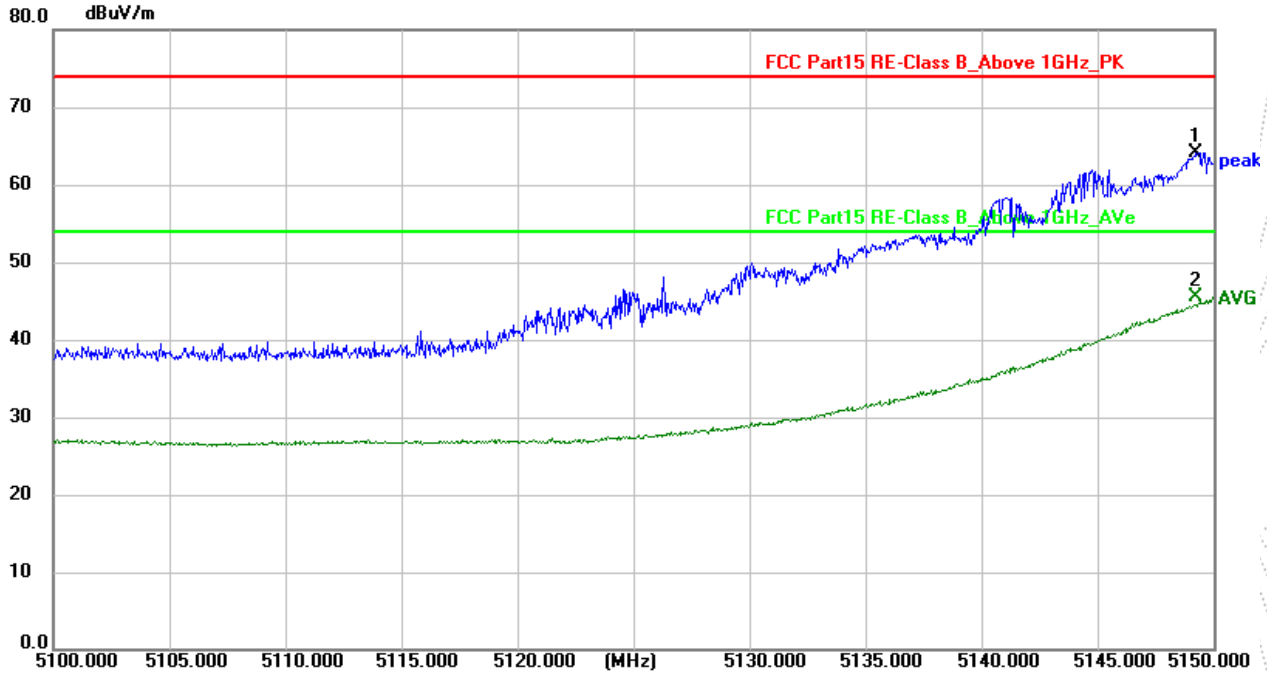


U-NII - 1

Test Model Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)

☒802.11ac ☐802.11n(HT20) ☐802.11n(HT40)

☒5180 Ant.Pol V

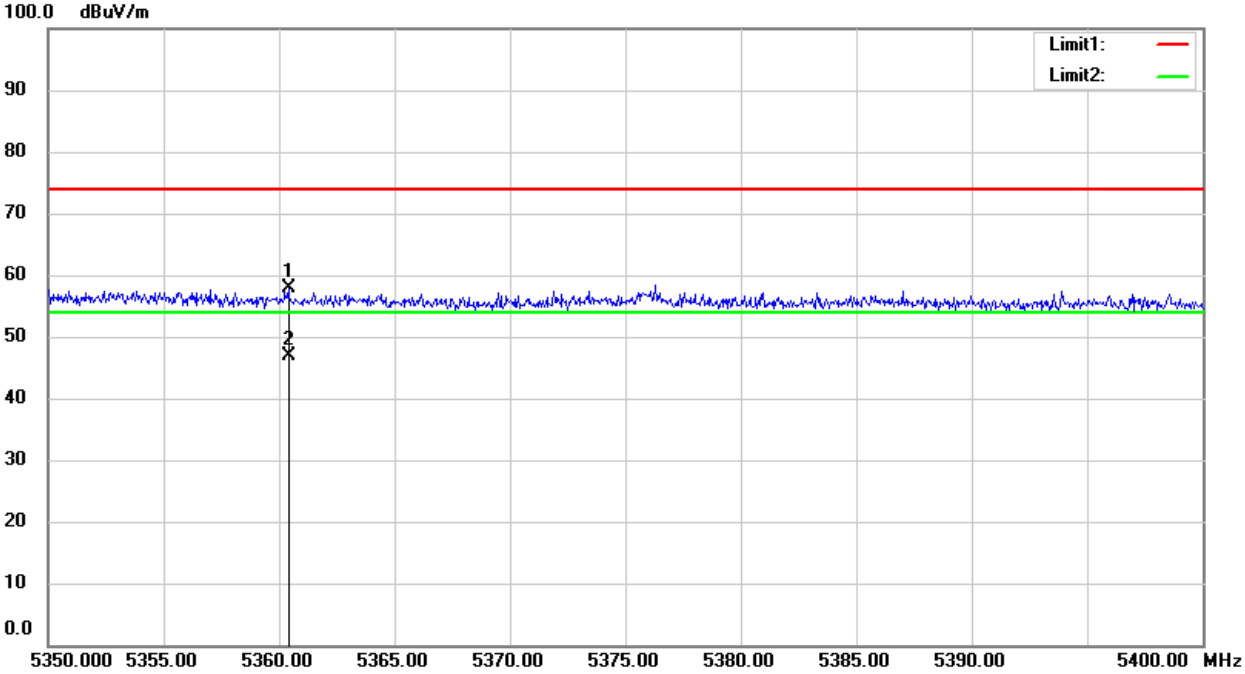


U-NII - 1

Test Model: Undesirable radiated Spurious Emission in Restricted Band (5350-5460MHz)

☒802.11ac ☐802.11n(HT20) ☐802.11n(HT40)

☒5320 Ant.Pol H

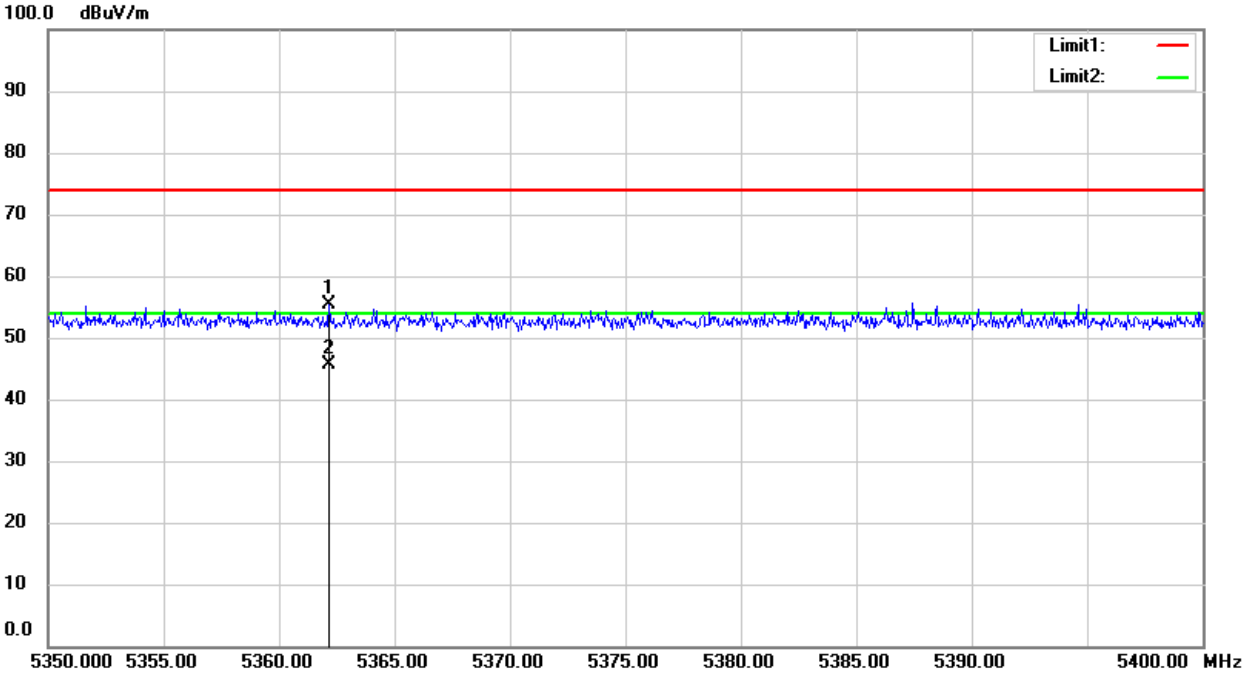


U-NII - 1

Test Model: Undesirable radiated Spurious Emission in Restricted Band (5350-5460MHz)

☒802.11ac ☐802.11n(HT20) ☐802.11n(HT40)

☒5320 Ant.Pol V



Note:

1. This EUT was tested in 802.11a/n(HT20),n(HT40),ac(HT20), ac(HT40), ac(HT80) mode and 802.11ac the worst case position data was reported.

8. Automatically Discontinue Transmission

8.1 Standard Requirement

According to FCC Part 15.407(c), the device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

8.2 Test Results

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

9. Antenna Requirement

9.1 Limit

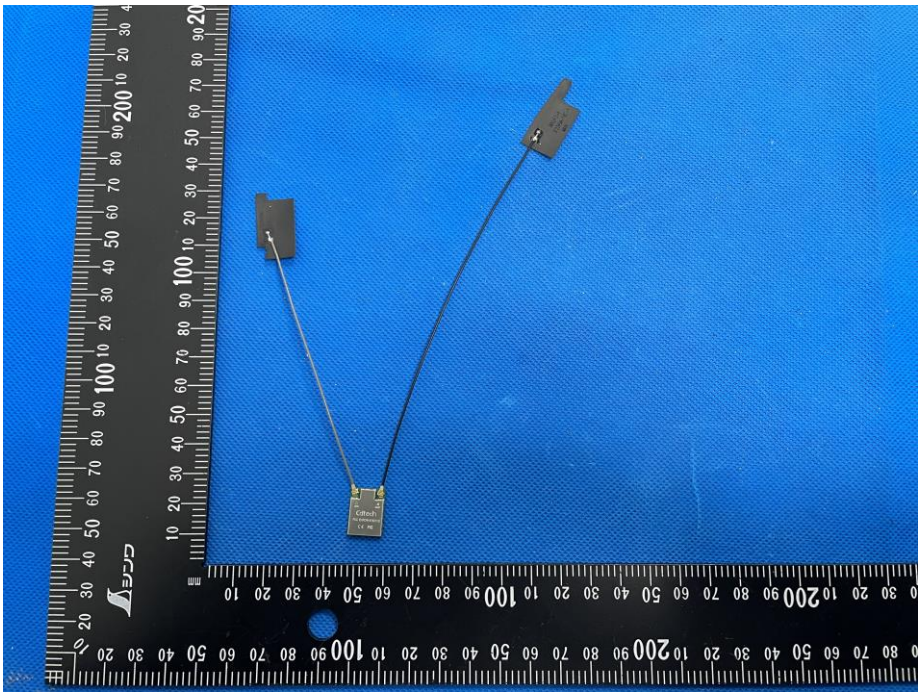
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

9.2 EUT Antenna

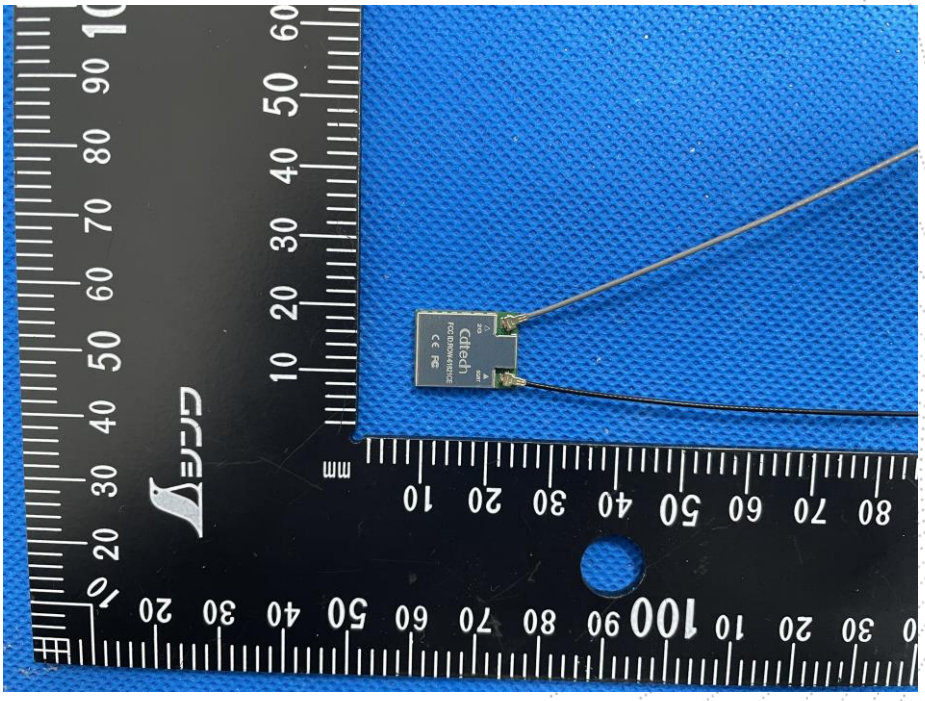
The EUT antenna is PIFA antenna, antenna Gain is 5.1G: 2.53dBi ,5.3G WIFI:1.11dBi, 5.8G WIFI:2.01dBi, fulfill the requirement of this section.

10. EUT Photographs

EUT Photo 1



EUT Photo 2



11. EUT Test Setup Photographs

Conducted emissions

Radiated Measurement Photos


BCTC
倍 测 检 测

STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The quality system of our laboratory is in accordance with ISO/IEC17025.

8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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

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P.C.: 518103

FAX: 0755-33229357

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E-Mail: bctc@bctc-lab.com.cn

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