



RADIOTESTREPORT

Report No:STS1906274W16

Issued for

FX Technology Limited

38a High Street, Northwood, Middlesex, United Kingdom,
HA6 1BN

Product Name:	Smartphone
Brand Name:	Fxtec
Model Name:	QX1000
Series Model:	N/A
FCC ID:	2AUCLQX1000
Test Standard:	FCC Part 15.407

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**TEST RESULT CERTIFICATION**

Applicant's Name..... : FX Technology Limited
Address : 38a High Street, Northwood, Middlesex, United Kingdom, HA6 1BN
Manufacture's Name..... : UWIN INNOVATION (HONGKONG) LIMITED
Address : 1 Queen's Road Central, Hong Kong

Product Description

Product Name..... : Smartphone
Brand Name : Fxtec
Model Name : QX1000
Series Model..... : N/A

Test Standards..... : FCC Part 15.407

Test Procedure..... ANSI C63.10-2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test..... :

Date (s) of performance of tests..... : 04 June 2019 ~ 21 Aug. 2019

Date of Issue..... : 22 Aug. 2019

Test Result..... : **Pass**

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sunday Hu)

Authorized Signatory :

(Vita Li)





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**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	22 Aug. 2019	STS1906274W16	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

§ 15.407, KDB789033 D02 General U-NII Test Procedures New Rules v02r01

FCC Part 15.407		
FCC standard	Test Item	Results
15.207	AC Conducted Emission	PASS
§ 15.407 (2) (26 dB) / § 15.407 (e) (6 dB) / § 15.407 (a) (99%)	26dB/6dB&99% Bandwidth	PASS
15.407(a) (1).(2).(3).(4).(5)	Maximum Conducted Output Power	PASS
15.407(b)& 15.209	Radiated Emission And (bandedge Emissions) Measurement	PASS
15.407(b)7	Conducted Emission And (bandedge Emissions) Measurement	PASS
15.407(a)(1).(2).(3).(4).(5)	Power Spectral Density	PASS
15.407(c)	Automatically Discontinue Transmission	PASS
15.203/15.204	Antenna Requirement	PASS

NOTE:

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

(2) all tests are according to ANSI C63.10-2013



1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.

Add. : 1/F., Building B, Zhuoke Science Park, No.190,Chongqing Road,
Fuyong Street, Bao'an District, Shenzhen, Guangdong,China

FCC test Firm Registration Number: 625569

A2LA Certificate No.: 4338.01;

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	RF output power, conducted	$\pm 0.71\text{dB}$
2	Unwanted Emissions, conducted	$\pm 0.63\text{dB}$
3	All emissions, radiated 30-200MHz	$\pm 3.43\text{dB}$
4	All emissions, radiated 200MHz-1GHz	$\pm 3.57\text{dB}$
5	All emissions, radiated >1G	$\pm 4.13\text{dB}$
6	Conducted Emission (9KHz-150KHz)	$\pm 3.18\text{dB}$
7	Conducted Emission (150KHz-30MHz)	$\pm 2.70\text{dB}$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Smartphone	
Trade Name	Fxtec	
Model Name	QX1000	
Series Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a Smartphone	
	Operation Frequency:	IEEE 802.11a/ n(HT20)/ac(VHT20): 5.180GHz-5.240GHz IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz IEEE 802.11ac(VHT80): 5.210GHz
		IEEE 802.11a/ n(HT20)/ac(VHT20): 5.260GHz-5.320GHz IEEE 802.11 n(HT40)/ac(VHT40): 5.270GHz-5.310GHz IEEE 802.11ac(VHT80): 5.290GHz
		IEEE 802.11a/ n(HT20)/ac(VHT20): 5.500GHz-5.700GHz IEEE 802.11 n(HT40)/ac(VHT40): 5.510GHz-5.670GHz IEEE 802.11ac(VHT80): 5.530GHz-5.610GHz
		IEEE 802.11a/ n(HT20)/ac(VHT20): 5.745GHz-5.825GHz IEEE 802.11a/ n(HT40)/ac(VHT40): 5.755GHz-5.795GHz IEEE 802.11ac(VHT80): 5.775GHz
		802.11a(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM): BPSK,QPSK,16-QAM,64-QAM,256-QAM
	Antenna Designation:	See Note 2
	Max.Output Power(Conducted):	9.29dBm
	Duty Cycle:	>98%
	More details of EUT technical specification, please refer to the User's Manual.	
Test Channel	Please refer to the Note 2.	
Adapter	Input: AC100-240V 50/60Hz 0.7A Output: 5.0V/3A 9.0V/2.0A 12V/1.5A	
Battery	Rated Voltage: 3.85v Charge Limit: 4.4v Capacity: 3150mAh	
Hardware version number	T5_MB_P2	
Software version number	QX1000_EEA_20190829102646	
Connecting I/O Port(s)	Please refer to the User's Manual	

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



1.

Operation Frequency of channel			
5.180GHz-5.240GHz		5.745GHz-5.825GHz	
Channel	Frequency	Channel	Frequency
36	5180	149	5745
38	5190	151	5755
40	5200	153	5765
42	5210	157	5785
44	5220	159	5795
46	5230	161	5805
48	5240	165	5825

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

5GHz:

For 802.11a/n(HT20) /ac (VHT20)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
36	5180	149	5745
40	5200	157	5785
48	5240	165	5825

For 802.11n(HT40) /ac (VHT40)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
38	5190	151	5755
46	5230	159	5795

For 802.11ac (VHT80)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
42	5210	155	5775



2. KDB 662911 D01 Multiple Transmitter Output v02r01

2) Directional Gain Calculations for In-Band Measurements

a) Basic methodology with NANT transmit antennas, each with the same directional gain GANT dBi, being driven by NANT transmitter outputs of equal power. Directional gain is to be computed as follows:

(i) If any transmit signals are correlated with each other,

Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi

(ii) If all transmit signals are completely uncorrelated with each other,

Directional gain = G_{ANT}

ANT A=0 dBi

ANT B=0 dBi

$G_{ANT} + 10 \log(N_{ANT})$ dBi

Directional gain= $0 + 10 \log 2 = 3.01$ dBi

Ant	Brand	Model Name	Ant Type	Connector	Gain (dBi)	NOTE
A	Fxtec	QX1000	PIFA Antenna	N/A	Ant A:0dBi Ant B:0dBi	WLANAnt





2.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11a HT20 CH36&CH40&CH48	6 Mbps
Mode 2	TX IEEE 802.11a HT20 CH149&CH157&CH165	6 Mbps
Mode 3	TX IEEE 802.11n HT20 CH36&CH40&CH48	MCS 0
Mode 4	TX IEEE 802.11ac VHT20 CH36&CH40&CH48	NSS1 MCS0
Mode 5	TX IEEE 802.11n HT20 CH149&CH157&CH165	MCS 0
Mode 6	TX IEEE 802.11acVHT20 CH149&CH157&CH165	NSS1 MCS0
Mode 7	TX IEEE 802.11n HT40 CH38&CH46	MCS 0
Mode 8	TX IEEE 802.11ac VHT40 CH38&CH46	NSS1 MCS0
Mode 9	TX IEEE 802.11n HT40 CH151&CH159	MCS 0
Mode 10	TX IEEE 802.11ac VHT40 CH151&CH159	NSS1 MCS0
Mode 11	TX IEEE 802.11acVHT80 CH42	NSS1 MCS0
Mode 12	TX IEEE 802.11acVHT80 CH155	NSS1 MCS0

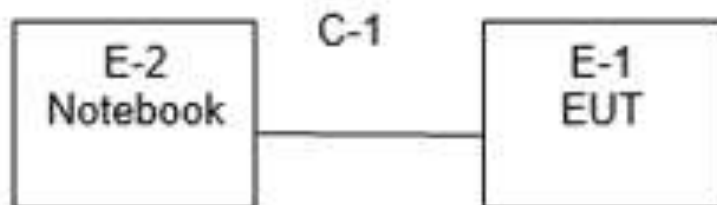
- Note: (1) The measurements are performed at the highest, middle, lowest available channels.
(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
(3) We have been tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.

AC Conducted Emission

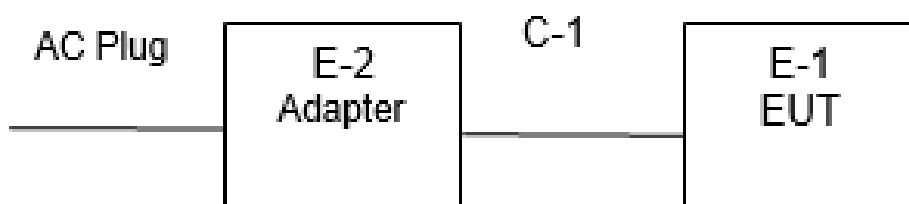
Test Case	
AC Conducted Emission	Mode13: Keeping TX + WLAN Link

2.2 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test





2.3 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-2	Adapter	SWITCHING ADAPTER	ASUC71w-050912300	N/A	N/A
C-2	DC Cable	N/A	110cm	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
N/A	N/A	N/A	N/A	N/A	N/A

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) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

**2.4 EQUIPMENTS LIST FOR ALL TEST ITEMS****Radiation Test equipment**

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12
Signal Analyzer	Agilent	N9020A	MY51110105	2019.03.02	2020.03.01
Active loop Antenna	ZHINAN	ZN30900C	16035	2018.03.11	2021.03.10
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.1
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2018.10.19	2021.10.18
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2021.03.10
Pre-Amplifier(0.1 M-3GHz)	EM	EM330	060665	2018.10.13	2019.10.12
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-4 5	SK2018080901	2018.10.13	2019.10.12
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10
turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Test SW	BULUN	BL410-E/18.905			

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12
LISN	R&S	ENV216	101242	2018.10.11	2019.10.10
LISN	EMCO	3810/2NM	23625	2018.10.11	2019.10.10
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 CE)			

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2018.10.13	2019.10.12
Signal Analyzer	Agilent	N9020A	MY49100060	2018.10.13	2019.10.12
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10
Test SW	FARAD	LZ-RF /LzRf-3A3			



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150 KHz-30 MHz)

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

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) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

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

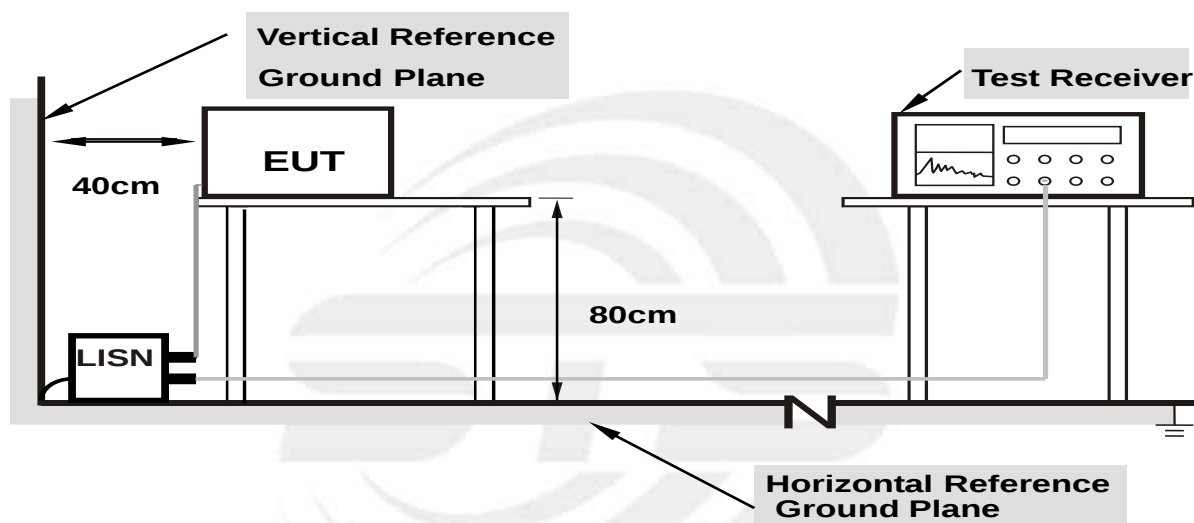
3.1.2 TEST PROCEDURE

- 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.
- Interconnecting cables that hang closer than 40 cm to the groundplane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.5 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.



3.1.6 TEST RESULTS

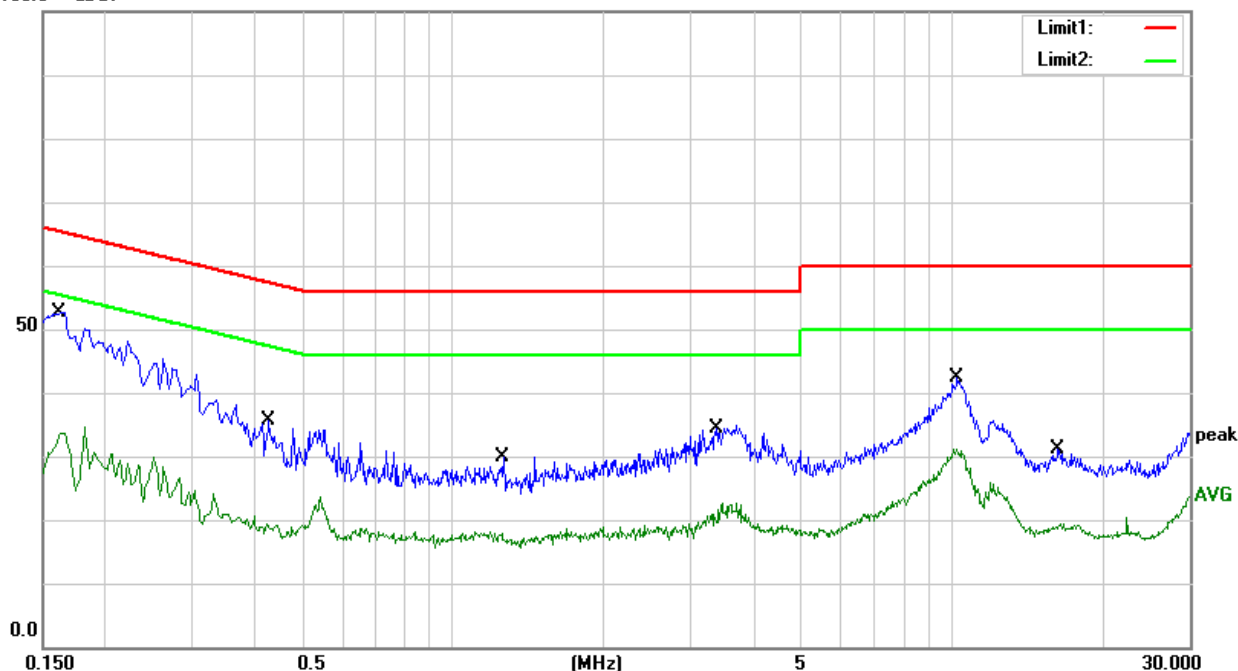
Temperature:	25.3(C)	Relative Humidity:	62%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode :	Mode 13		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1621	32.97	19.75	52.72	65.36	-12.64	QP
2	0.1621	14.82	19.75	34.57	55.36	-20.79	AVG
3	0.4260	15.59	20.00	35.59	57.33	-21.74	QP
4	0.4260	-1.89	20.00	18.11	47.33	-29.22	AVG
5	1.2660	10.11	19.77	29.88	56.00	-26.12	QP
6	1.2660	-0.71	19.77	19.06	46.00	-26.94	AVG
7	3.3780	14.42	19.86	34.28	56.00	-21.72	QP
8	3.3780	2.84	19.86	22.70	46.00	-23.30	AVG
9	10.2460	22.44	19.84	42.28	60.00	-17.72	QP
10	10.2460	11.21	19.84	31.05	50.00	-18.95	AVG
11	16.3420	11.17	20.04	31.21	60.00	-28.79	QP
12	16.3420	0.31	20.04	20.35	50.00	-29.65	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) – Limit

100.0 dBuV



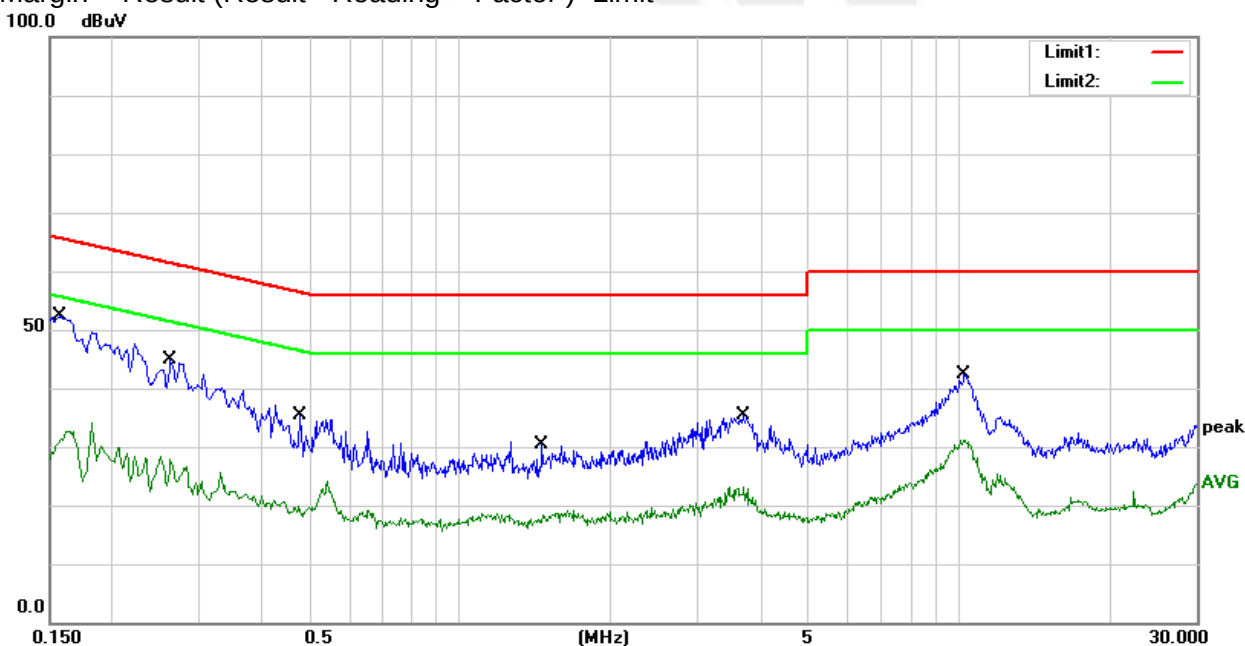


Temperature:	25.3(C)	Relative Humidity:	62%RH
Test Voltage	AC 120V/60Hz	Phase:	N
Test Mode	Mode 13		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1580	32.66	19.74	52.40	65.57	-13.17	QP
2	0.1580	14.33	19.74	34.07	55.57	-21.50	AVG
3	0.2620	24.68	20.09	44.77	61.37	-16.60	QP
4	0.2620	5.44	20.09	25.53	51.37	-25.84	AVG
5	0.4780	15.48	19.96	35.44	56.37	-20.93	QP
6	0.4780	4.14	19.96	24.10	46.37	-22.27	AVG
7	1.4580	10.50	19.78	30.28	56.00	-25.72	QP
8	1.4580	-1.11	19.78	18.67	46.00	-27.33	AVG
9	3.6860	15.41	19.87	35.28	56.00	-20.72	QP
10	3.6860	3.21	19.87	23.08	46.00	-22.92	AVG
11	10.2460	22.44	19.84	42.28	60.00	-17.72	QP
12	10.2460	11.21	19.84	31.05	50.00	-18.95	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) – Limit





3.2 RADIATED EMISSION AND (BANDEDGE) MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.407(b)7 & 15.205/209(a), then the (a); limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	68.2	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15E.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier harmonic(Peak/AV)
RB / VB (emission in restricted band)	1MHz / 1MHz, AV=1 MHz / 3 MHz

For Band edge

Spectrum Parameter	Setting
Detector	Peak
RB / VB (emission in restricted band)	1MHz / 1MHz, AV=1 MHz / 3 MHz



Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

- The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then QuasiPeak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

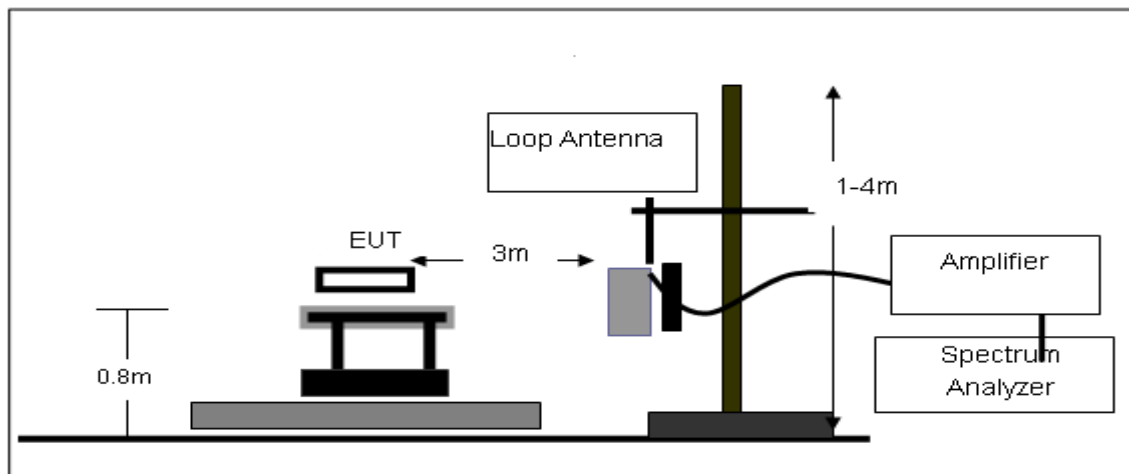
Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported

3.2.2 DEVIATION FROM TEST STANDARD

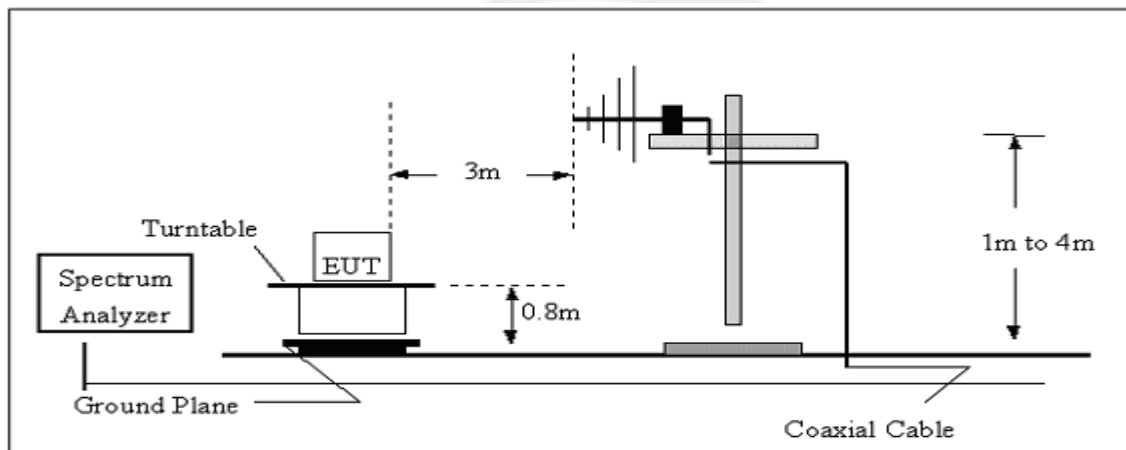
No deviation

3.2.3 TESTSETUP

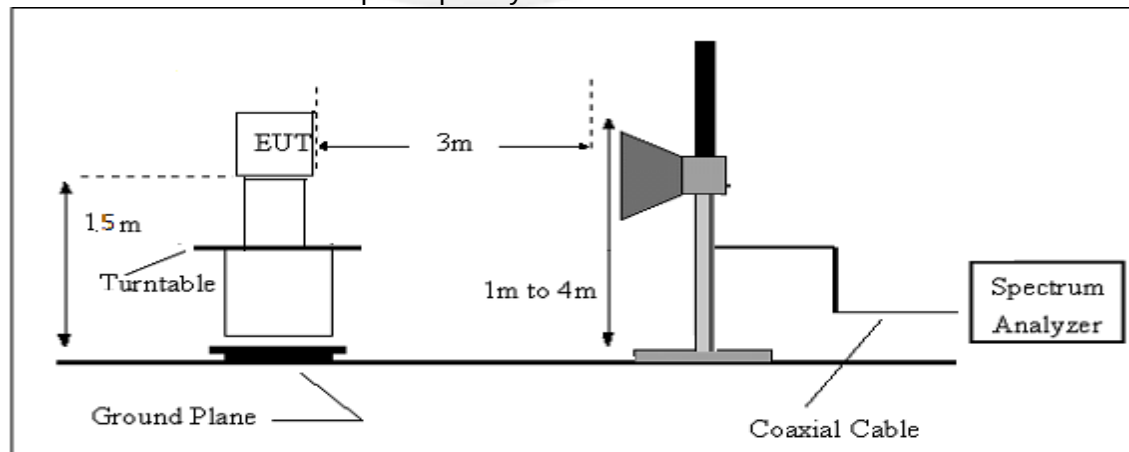
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz





3.2.4 EUT OPERATING 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.

3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$

**3.2.6 TEST RESULTS (Between 9KHz – 30 MHz)**

Temperature:	25.7(C)	Relative Humidity:	69%RH
Test Voltage:	AC 120V/60Hz	Polarization:	--
Test Mode:	TX Mode		

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

Note:

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

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

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

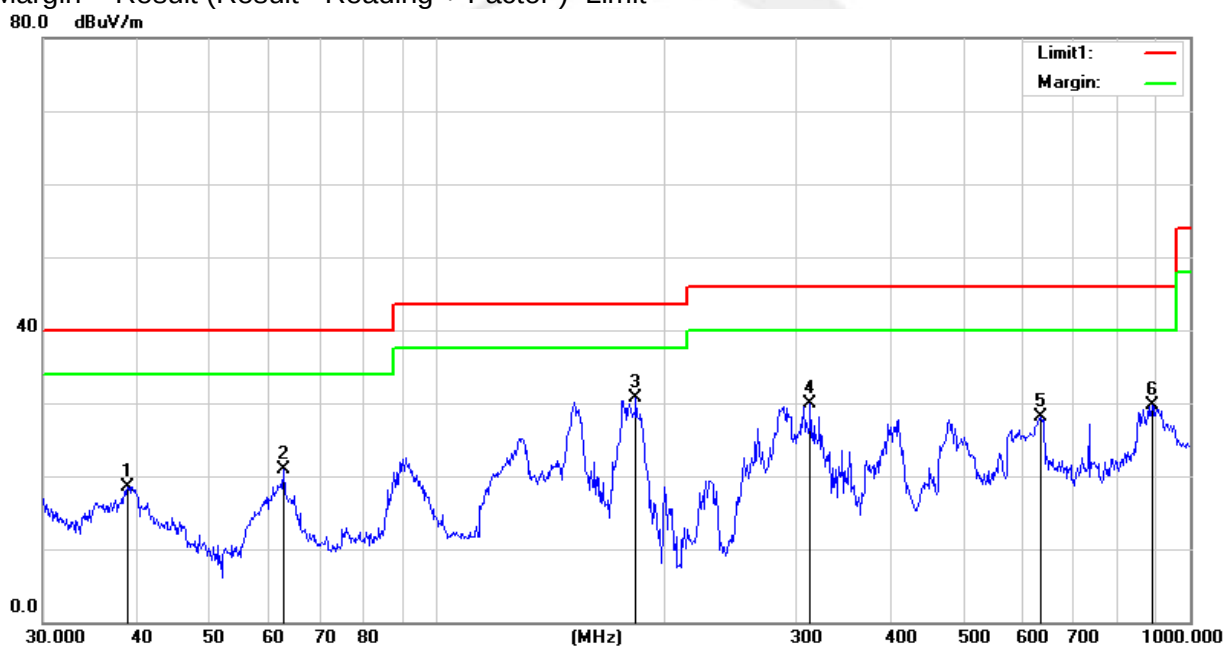
**3.2.7 TEST RESULTS(Between 30MHz – 1GHz)**

Temperature	25.7(C)	Relative Humidity:	69%RH
Test Voltage	AC 120V/60Hz	Polarization:	Horizontal
Test Mode	Mode 1~16(Mode 16 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	38.8880	34.68	-16.09	18.59	40.00	-21.41	QP
2	62.6507	46.85	-25.91	20.94	40.00	-19.06	QP
3	183.8440	52.41	-21.72	30.69	43.50	-12.81	QP
4	313.2760	45.49	-15.58	29.91	46.00	-16.09	QP
5	633.9071	36.87	-8.82	28.05	46.00	-17.95	QP
6	890.7278	34.65	-5.01	29.64	46.00	-16.36	QP

Remark:

1. Margin = Result (Result = Reading + Factor) – Limit



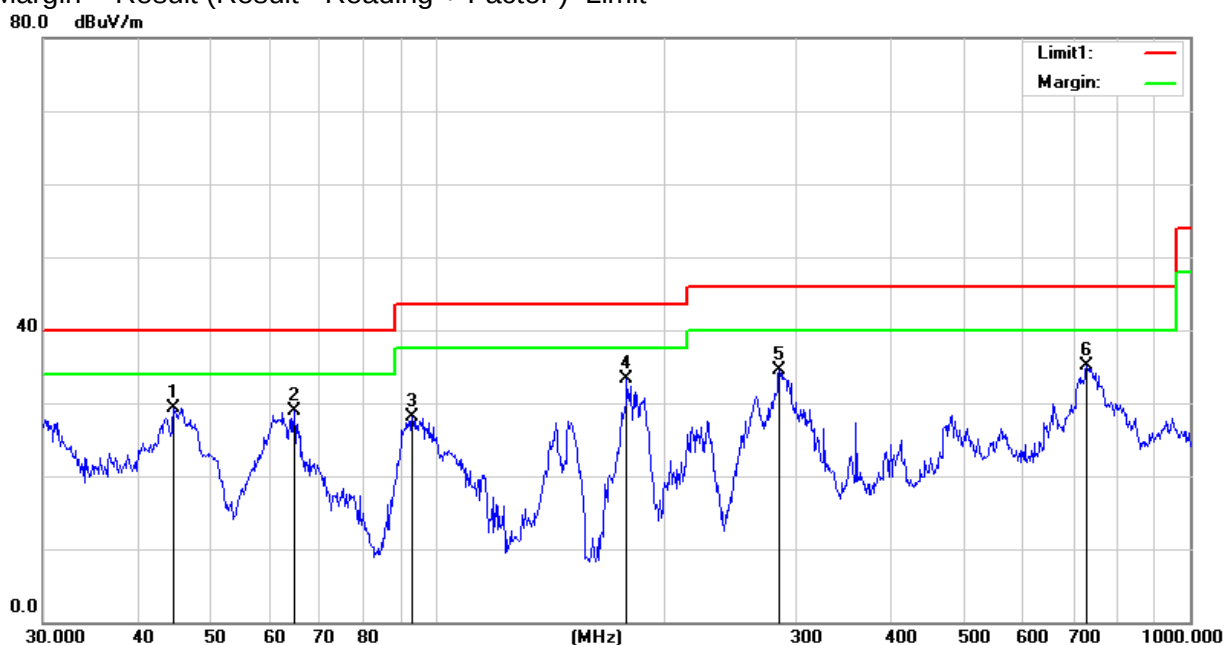


Temperature	25.7(C)	Relative Humidity:	69%RH
Test Voltage	AC 120V/60Hz	Polarization:	Vertical
Test Mode	Mode 1~16(Mode 16 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	44.7433	49.36	-20.01	29.35	40.00	-10.65	QP
2	64.6594	54.19	-25.37	28.82	40.00	-11.18	QP
3	92.7870	49.57	-21.47	28.10	43.50	-15.40	QP
4	178.7581	54.53	-21.22	33.31	43.50	-10.19	QP
5	284.9766	52.04	-17.62	34.42	46.00	-11.58	QP
6	729.3582	42.15	-7.05	35.10	46.00	-10.90	QP

Remark:

1. Margin = Result (Result = Reading + Factor)-Limit



**3.2.8 TEST RESULTS(Above 1000 MHz)****Band I 5150-5250MHz**

Frequency (MHz)	Reading (dBuV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
Low Channel (802.11n20/ 5180 MHz)										
3261.91	44.12	44.70	6.70	28.20	-9.80	34.32	68.20	-33.88	Pk	Vertical
3261.91	41.99	44.70	6.70	28.20	-9.80	32.19	54.00	-21.81	AV	Vertical
3264.98	44.37	44.70	6.70	28.20	-9.80	34.57	68.20	-33.63	Pk	Horizontal
3264.98	41.26	44.70	6.70	28.20	-9.80	31.46	54.00	-22.54	AV	Horizontal
3997.74	38.93	44.20	7.90	29.70	-6.60	32.33	68.20	-35.87	Pk	Vertical
3997.74	36.06	44.20	7.90	29.70	-6.60	29.46	54.00	-24.54	AV	Vertical
3982.11	38.88	44.20	7.90	29.70	-6.60	32.28	68.20	-35.92	Pk	Horizontal
3982.11	35.75	44.20	7.90	29.70	-6.60	29.15	54.00	-24.85	AV	Horizontal
7227.58	37.01	43.50	11.40	35.50	3.40	40.41	68.20	-27.79	Pk	Vertical
7227.58	34.47	43.50	11.40	35.50	3.40	37.87	54.00	-16.13	AV	Vertical
7230.74	37.36	43.50	11.40	35.50	3.40	40.76	68.20	-27.44	Pk	Horizontal
7230.74	34.18	43.50	11.40	35.50	3.40	37.58	54.00	-16.42	AV	Horizontal
10360.34	39.75	44.50	13.80	38.80	8.10	47.85	68.20	-20.35	Pk	Vertical
10360.34	35.95	44.50	13.80	38.80	8.10	44.05	54.00	-9.95	AV	Vertical
10360.35	39.16	44.50	13.80	38.80	8.10	47.26	68.20	-20.94	Pk	Horizontal
10360.35	35.92	44.50	13.80	38.80	8.10	44.02	54.00	-9.98	AV	Horizontal
11035.81	33.05	43.60	14.30	39.50	10.20	43.25	68.20	-24.95	Pk	Vertical
11035.81	30.23	43.60	14.30	39.50	10.20	40.43	54.00	-13.57	AV	Vertical
11019.06	33.35	43.60	14.30	39.50	10.20	43.55	68.20	-24.65	Pk	Horizontal
11019.06	29.76	43.60	14.30	39.50	10.20	39.96	54.00	-14.04	AV	Horizontal
13297.57	32.02	42.60	15.90	38.90	12.20	44.22	68.20	-23.98	Pk	Vertical
13297.57	29.65	42.60	15.90	38.90	12.20	41.85	54.00	-12.15	AV	Vertical
13299.46	32.64	42.60	15.90	38.90	12.20	44.84	68.20	-23.36	Pk	Horizontal
13299.46	29.92	42.60	15.90	38.90	12.20	42.12	54.00	-11.88	AV	Horizontal



Mid Channel (802.11n20/ 5200 MHz)										
3258.20	44.40	44.70	6.70	28.20	-9.80	34.60	68.20	-33.60	Pk	Vertical
3258.20	40.91	44.70	6.70	28.20	-9.80	31.11	54.00	-22.89	AV	Vertical
3260.86	44.27	44.70	6.70	28.20	-9.80	34.47	68.20	-33.73	Pk	Horizontal
3260.86	41.93	44.70	6.70	28.20	-9.80	32.13	54.00	-21.87	AV	Horizontal
3989.48	39.95	44.20	7.90	29.70	-6.60	33.35	68.20	-34.85	Pk	Vertical
3989.48	37.14	44.20	7.90	29.70	-6.60	30.54	54.00	-23.46	AV	Vertical
3991.66	39.11	44.20	7.90	29.70	-6.60	32.51	68.20	-35.69	Pk	Horizontal
3991.66	35.73	44.20	7.90	29.70	-6.60	29.13	54.00	-24.87	AV	Horizontal
7230.26	36.70	43.50	11.40	35.50	3.40	40.10	68.20	-28.10	Pk	Vertical
7230.26	33.66	43.50	11.40	35.50	3.40	37.06	54.00	-16.94	AV	Vertical
7217.17	37.69	43.50	11.40	35.50	3.40	41.09	68.20	-27.11	Pk	Horizontal
7217.17	33.96	43.50	11.40	35.50	3.40	37.36	54.00	-16.64	AV	Horizontal
10400.34	39.30	44.50	13.80	38.80	8.10	47.40	68.20	-20.80	Pk	Vertical
10400.34	36.54	44.50	13.80	38.80	8.10	44.64	54.00	-9.36	AV	Vertical
10400.33	38.91	44.50	13.80	38.80	8.10	47.01	68.20	-21.19	Pk	Horizontal
10400.33	36.48	44.50	13.80	38.80	8.10	44.58	54.00	-9.42	AV	Horizontal
11031.73	32.79	43.60	14.30	39.50	10.20	42.99	68.20	-25.21	Pk	Vertical
11031.73	30.45	43.60	14.30	39.50	10.20	40.65	54.00	-13.35	AV	Vertical
11031.18	33.83	43.60	14.30	39.50	10.20	44.03	68.20	-24.17	Pk	Horizontal
11031.18	29.70	43.60	14.30	39.50	10.20	39.90	54.00	-14.10	AV	Horizontal
13293.04	31.62	42.60	15.90	38.90	12.20	43.82	68.20	-24.38	Pk	Vertical
13293.04	29.64	42.60	15.90	38.90	12.20	41.84	54.00	-12.16	AV	Vertical
13297.35	32.03	42.60	15.90	38.90	12.20	44.23	68.20	-23.97	Pk	Horizontal
13297.35	29.86	42.60	15.90	38.90	12.20	42.06	54.00	-11.94	AV	Horizontal



High Channel (802.11n20/ 5240 MHz)										
3248.63	44.62	44.70	6.70	28.20	-9.80	34.82	68.20	-33.38	Pk	Vertical
3248.63	41.14	44.70	6.70	28.20	-9.80	31.34	54.00	-22.66	AV	Vertical
3260.96	44.48	44.70	6.70	28.20	-9.80	34.68	68.20	-33.52	Pk	Horizontal
3260.96	41.44	44.70	6.70	28.20	-9.80	31.64	54.00	-22.36	AV	Horizontal
3997.73	39.37	44.20	7.90	29.70	-6.60	32.77	68.20	-35.43	Pk	Vertical
3997.73	36.70	44.20	7.90	29.70	-6.60	30.10	54.00	-23.90	AV	Vertical
3993.34	39.04	44.20	7.90	29.70	-6.60	32.44	68.20	-35.76	Pk	Horizontal
3993.34	36.73	44.20	7.90	29.70	-6.60	30.13	54.00	-23.87	AV	Horizontal
7222.03	36.82	43.50	11.40	35.50	3.40	40.22	68.20	-27.98	Pk	Vertical
7222.03	34.36	43.50	11.40	35.50	3.40	37.76	54.00	-16.24	AV	Vertical
7224.58	36.50	43.50	11.40	35.50	3.40	39.90	68.20	-28.30	Pk	Horizontal
7224.58	34.59	43.50	11.40	35.50	3.40	37.99	54.00	-16.01	AV	Horizontal
10480.33	38.99	44.50	13.80	38.80	8.10	47.09	68.20	-21.11	Pk	Vertical
10480.33	36.50	44.50	13.80	38.80	8.10	44.60	54.00	-9.40	AV	Vertical
10480.26	39.84	44.50	13.80	38.80	8.10	47.94	68.20	-20.26	Pk	Horizontal
10480.26	36.38	44.50	13.80	38.80	8.10	44.48	54.00	-9.52	AV	Horizontal
11020.02	34.06	43.60	14.30	39.50	10.20	44.26	68.20	-23.94	Pk	Vertical
11020.02	30.02	43.60	14.30	39.50	10.20	40.22	54.00	-13.78	AV	Vertical
11033.17	32.72	43.60	14.30	39.50	10.20	42.92	68.20	-25.28	Pk	Horizontal
11033.17	30.41	43.60	14.30	39.50	10.20	40.61	54.00	-13.39	AV	Horizontal
13282.31	32.20	42.60	15.90	38.90	12.20	44.40	68.20	-23.80	Pk	Vertical
13282.31	28.89	42.60	15.90	38.90	12.20	41.09	54.00	-12.91	AV	Vertical
13285.22	31.64	42.60	15.90	38.90	12.20	43.84	68.20	-24.36	Pk	Horizontal
13285.22	28.79	42.60	15.90	38.90	12.20	40.99	54.00	-13.01	AV	Horizontal

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Scan with 802.11a, 802.11n (HT-20), 802.11n (HT-40), 802.11ac (VHT-20), 802.11ac (VHT-40), 802.11ac (VHT-80) the worst case is 802.11n (HT-20).
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.
4. Pre-scan both the SISO and MIMO mode, only the worst-case results were reported.

**Band II 5250-5350MHz**

Frequency (MHz)	Reading (dBuV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
Low Channel (802.11n20/ 5180 MHz)										
3247.81	44.65	44.70	6.70	28.20	-9.80	34.85	68.20	-33.35	Pk	Vertical
3247.81	40.94	44.70	6.70	28.20	-9.80	31.14	54.00	-22.86	AV	Vertical
3245.92	44.51	44.70	6.70	28.20	-9.80	34.71	68.20	-33.49	Pk	Horizontal
3245.92	40.84	44.70	6.70	28.20	-9.80	31.04	54.00	-22.96	AV	Horizontal
3992.75	39.76	44.20	7.90	29.70	-6.60	33.16	68.20	-35.04	Pk	Vertical
3992.75	36.69	44.20	7.90	29.70	-6.60	30.09	54.00	-23.91	AV	Vertical
3993.43	38.95	44.20	7.90	29.70	-6.60	32.35	68.20	-35.85	Pk	Horizontal
3993.43	36.63	44.20	7.90	29.70	-6.60	30.03	54.00	-23.97	AV	Horizontal
7232.67	37.46	43.50	11.40	35.50	3.40	40.86	68.20	-27.34	Pk	Vertical
7232.67	34.80	43.50	11.40	35.50	3.40	38.20	54.00	-15.80	AV	Vertical
7230.60	36.81	43.50	11.40	35.50	3.40	40.21	68.20	-27.99	Pk	Horizontal
7230.60	34.47	43.50	11.40	35.50	3.40	37.87	54.00	-16.13	AV	Horizontal
10360.31	40.04	44.50	13.80	38.80	8.10	48.14	68.20	-20.06	Pk	Vertical
10360.31	36.39	44.50	13.80	38.80	8.10	44.49	54.00	-9.51	AV	Vertical
10360.25	39.42	44.50	13.80	38.80	8.10	47.52	68.20	-20.68	Pk	Horizontal
10360.25	36.83	44.50	13.80	38.80	8.10	44.93	54.00	-9.07	AV	Horizontal
11020.37	32.93	43.60	14.30	39.50	10.20	43.13	68.20	-25.07	Pk	Vertical
11020.37	30.76	43.60	14.30	39.50	10.20	40.96	54.00	-13.04	AV	Vertical
11018.17	33.86	43.60	14.30	39.50	10.20	44.06	68.20	-24.14	Pk	Horizontal
11018.17	30.92	43.60	14.30	39.50	10.20	41.12	54.00	-12.88	AV	Horizontal
13282.22	32.43	42.60	15.90	38.90	12.20	44.63	68.20	-23.57	Pk	Vertical
13282.22	29.91	42.60	15.90	38.90	12.20	42.11	54.00	-11.89	AV	Vertical
13291.21	31.61	42.60	15.90	38.90	12.20	43.81	68.20	-24.39	Pk	Horizontal
13291.21	29.97	42.60	15.90	38.90	12.20	42.17	54.00	-11.83	AV	Horizontal
Mid Channel (802.11n20/ 5200 MHz)										
3247.64	45.06	44.70	6.70	28.20	-9.80	35.26	68.20	-32.94	Pk	Vertical
3247.64	40.99	44.70	6.70	28.20	-9.80	31.19	54.00	-22.81	AV	Vertical
3257.31	43.92	44.70	6.70	28.20	-9.80	34.12	68.20	-34.08	Pk	Horizontal
3257.31	41.39	44.70	6.70	28.20	-9.80	31.59	54.00	-22.41	AV	Horizontal
3988.90	40.03	44.20	7.90	29.70	-6.60	33.43	68.20	-34.77	Pk	Vertical
3988.90	36.17	44.20	7.90	29.70	-6.60	29.57	54.00	-24.43	AV	Vertical
3986.17	39.12	44.20	7.90	29.70	-6.60	32.52	68.20	-35.68	Pk	Horizontal
3986.17	36.75	44.20	7.90	29.70	-6.60	30.15	54.00	-23.85	AV	Horizontal
7224.84	37.11	43.50	11.40	35.50	3.40	40.51	68.20	-27.69	Pk	Vertical



Mid Channel (802.11n20/ 5200 MHz)										
3247.64	45.06	44.70	6.70	28.20	-9.80	35.26	68.20	-32.94	Pk	Vertical
3247.64	40.99	44.70	6.70	28.20	-9.80	31.19	54.00	-22.81	AV	Vertical
3257.31	43.92	44.70	6.70	28.20	-9.80	34.12	68.20	-34.08	Pk	Horizontal
3257.31	41.39	44.70	6.70	28.20	-9.80	31.59	54.00	-22.41	AV	Horizontal
3988.90	40.03	44.20	7.90	29.70	-6.60	33.43	68.20	-34.77	Pk	Vertical
3988.90	36.17	44.20	7.90	29.70	-6.60	29.57	54.00	-24.43	AV	Vertical
3986.17	39.12	44.20	7.90	29.70	-6.60	32.52	68.20	-35.68	Pk	Horizontal
3986.17	36.75	44.20	7.90	29.70	-6.60	30.15	54.00	-23.85	AV	Horizontal
7224.84	37.11	43.50	11.40	35.50	3.40	40.51	68.20	-27.69	Pk	Vertical
7224.84	34.83	43.50	11.40	35.50	3.40	38.23	54.00	-15.77	AV	Vertical
7224.83	37.27	43.50	11.40	35.50	3.40	40.67	68.20	-27.53	Pk	Horizontal
7224.83	33.50	43.50	11.40	35.50	3.40	36.90	54.00	-17.10	AV	Horizontal
10400.10	39.67	44.50	13.80	38.80	8.10	47.77	68.20	-20.43	Pk	Vertical
10400.10	36.11	44.50	13.80	38.80	8.10	44.21	54.00	-9.79	AV	Vertical
10400.40	38.86	44.50	13.80	38.80	8.10	46.96	68.20	-21.24	Pk	Horizontal
10400.40	36.95	44.50	13.80	38.80	8.10	45.05	54.00	-8.95	AV	Horizontal
11024.74	34.07	43.60	14.30	39.50	10.20	44.27	68.20	-23.93	Pk	Vertical
11024.74	30.15	43.60	14.30	39.50	10.20	40.35	54.00	-13.65	AV	Vertical
11023.40	34.10	43.60	14.30	39.50	10.20	44.30	68.20	-23.90	Pk	Horizontal
11023.40	29.95	43.60	14.30	39.50	10.20	40.15	54.00	-13.85	AV	Horizontal
13284.80	31.72	42.60	15.90	38.90	12.20	43.92	68.20	-24.28	Pk	Vertical
13284.80	28.96	42.60	15.90	38.90	12.20	41.16	54.00	-12.84	AV	Vertical
13287.23	32.15	42.60	15.90	38.90	12.20	44.35	68.20	-23.85	Pk	Horizontal
13287.23	29.00	42.60	15.90	38.90	12.20	41.20	54.00	-12.80	AV	Horizontal



High Channel (802.11n20/ 5240 MHz)										
3248.18	44.77	44.70	6.70	28.20	-9.80	34.97	68.20	-33.23	Pk	Vertical
3248.18	42.20	44.70	6.70	28.20	-9.80	32.40	54.00	-21.60	AV	Vertical
3253.39	45.19	44.70	6.70	28.20	-9.80	35.39	68.20	-32.81	Pk	Horizontal
3253.39	42.24	44.70	6.70	28.20	-9.80	32.44	54.00	-21.56	AV	Horizontal
3991.37	39.23	44.20	7.90	29.70	-6.60	32.63	68.20	-35.57	Pk	Vertical
3991.37	37.00	44.20	7.90	29.70	-6.60	30.40	54.00	-23.60	AV	Vertical
3998.68	39.37	44.20	7.90	29.70	-6.60	32.77	68.20	-35.43	Pk	Horizontal
3998.68	35.74	44.20	7.90	29.70	-6.60	29.14	54.00	-24.86	AV	Horizontal
7221.16	37.48	43.50	11.40	35.50	3.40	40.88	68.20	-27.32	Pk	Vertical
7221.16	33.66	43.50	11.40	35.50	3.40	37.06	54.00	-16.94	AV	Vertical
7223.39	37.46	43.50	11.40	35.50	3.40	40.86	68.20	-27.34	Pk	Horizontal
7223.39	34.40	43.50	11.40	35.50	3.40	37.80	54.00	-16.20	AV	Horizontal
10480.09	39.83	44.50	13.80	38.80	8.10	47.93	68.20	-20.27	Pk	Vertical
10480.09	35.86	44.50	13.80	38.80	8.10	43.96	54.00	-10.04	AV	Vertical
10480.42	39.09	44.50	13.80	38.80	8.10	47.19	68.20	-21.01	Pk	Horizontal
10480.42	35.67	44.50	13.80	38.80	8.10	43.77	54.00	-10.23	AV	Horizontal
11026.02	34.19	43.60	14.30	39.50	10.20	44.39	68.20	-23.81	Pk	Vertical
11026.02	31.03	43.60	14.30	39.50	10.20	41.23	54.00	-12.77	AV	Vertical
11017.00	33.25	43.60	14.30	39.50	10.20	43.45	68.20	-24.75	Pk	Horizontal
11017.00	29.81	43.60	14.30	39.50	10.20	40.01	54.00	-13.99	AV	Horizontal
13294.39	32.21	42.60	15.90	38.90	12.20	44.41	68.20	-23.79	Pk	Vertical
13294.39	29.05	42.60	15.90	38.90	12.20	41.25	54.00	-12.75	AV	Vertical
13293.10	31.73	42.60	15.90	38.90	12.20	43.93	68.20	-24.27	Pk	Horizontal
13293.10	28.58	42.60	15.90	38.90	12.20	40.78	54.00	-13.22	AV	Horizontal

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Scan with 802.11a, 802.11n (HT-20), 802.11n (HT-40), 802.11ac (VHT-20), 802.11ac (VHT-40), 802.11ac (VHT-80) the worst case is 802.11n (HT-20).
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.
4. Pre-scan both the SISO and MIMO mode, only the worst-case results were reported



Band III 5470-5725MHz

Frequency (MHz)	Reading (dBuV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
Low Channel (802.11/ 5180 MHz)										
3264.52	44.44	44.70	6.70	28.20	-9.80	34.64	68.20	-33.56	Pk	Vertical
3264.52	41.64	44.70	6.70	28.20	-9.80	31.84	54.00	-22.16	AV	Vertical
3257.36	43.88	44.70	6.70	28.20	-9.80	34.08	68.20	-34.12	Pk	Horizontal
3257.36	41.17	44.70	6.70	28.20	-9.80	31.37	54.00	-22.63	AV	Horizontal
3984.32	39.50	44.20	7.90	29.70	-6.60	32.90	68.20	-35.30	Pk	Vertical
3984.32	37.05	44.20	7.90	29.70	-6.60	30.45	54.00	-23.55	AV	Vertical
3984.45	38.67	44.20	7.90	29.70	-6.60	32.07	68.20	-36.13	Pk	Horizontal
3984.45	36.91	44.20	7.90	29.70	-6.60	30.31	54.00	-23.69	AV	Horizontal
7234.05	37.63	43.50	11.40	35.50	3.40	41.03	68.20	-27.17	Pk	Vertical
7234.05	33.99	43.50	11.40	35.50	3.40	37.39	54.00	-16.61	AV	Vertical
7228.08	37.30	43.50	11.40	35.50	3.40	40.70	68.20	-27.50	Pk	Horizontal
7228.08	34.88	43.50	11.40	35.50	3.40	38.28	54.00	-15.72	AV	Horizontal
10360.03	39.40	44.50	13.80	38.80	8.10	47.50	68.20	-20.70	Pk	Vertical
10360.03	36.32	44.50	13.80	38.80	8.10	44.42	54.00	-9.58	AV	Vertical
10360.01	39.08	44.50	13.80	38.80	8.10	47.18	68.20	-21.02	Pk	Horizontal
10360.01	35.85	44.50	13.80	38.80	8.10	43.95	54.00	-10.05	AV	Horizontal
11024.35	32.95	43.60	14.30	39.50	10.20	43.15	68.20	-25.05	Pk	Vertical
11024.35	30.03	43.60	14.30	39.50	10.20	40.23	54.00	-13.77	AV	Vertical
11022.48	33.25	43.60	14.30	39.50	10.20	43.45	68.20	-24.75	Pk	Horizontal
11022.48	30.18	43.60	14.30	39.50	10.20	40.38	54.00	-13.62	AV	Horizontal
13287.09	31.78	42.60	15.90	38.90	12.20	43.98	68.20	-24.22	Pk	Vertical
13287.09	30.03	42.60	15.90	38.90	12.20	42.23	54.00	-11.77	AV	Vertical
13298.54	32.59	42.60	15.90	38.90	12.20	44.79	68.20	-23.41	Pk	Horizontal
13298.54	29.07	42.60	15.90	38.90	12.20	41.27	54.00	-12.73	AV	Horizontal



Mid Channel (802.11/ 5200 MHz)										
3248.61	44.02	44.70	6.70	28.20	-9.80	34.22	68.20	-33.98	Pk	Vertical
3248.61	41.95	44.70	6.70	28.20	-9.80	32.15	54.00	-21.85	AV	Vertical
3258.46	45.09	44.70	6.70	28.20	-9.80	35.29	68.20	-32.91	Pk	Horizontal
3258.46	42.06	44.70	6.70	28.20	-9.80	32.26	54.00	-21.74	AV	Horizontal
3996.73	38.88	44.20	7.90	29.70	-6.60	32.28	68.20	-35.92	Pk	Vertical
3996.73	36.04	44.20	7.90	29.70	-6.60	29.44	54.00	-24.56	AV	Vertical
3990.36	39.96	44.20	7.90	29.70	-6.60	33.36	68.20	-34.84	Pk	Horizontal
3990.36	35.90	44.20	7.90	29.70	-6.60	29.30	54.00	-24.70	AV	Horizontal
7230.53	37.10	43.50	11.40	35.50	3.40	40.50	68.20	-27.70	Pk	Vertical
7230.53	33.91	43.50	11.40	35.50	3.40	37.31	54.00	-16.69	AV	Vertical
7226.32	37.56	43.50	11.40	35.50	3.40	40.96	68.20	-27.24	Pk	Horizontal
7226.32	34.35	43.50	11.40	35.50	3.40	37.75	54.00	-16.25	AV	Horizontal
10400.05	39.38	44.50	13.80	38.80	8.10	47.48	68.20	-20.72	Pk	Vertical
10400.05	36.26	44.50	13.80	38.80	8.10	44.36	54.00	-9.64	AV	Vertical
10400.27	38.74	44.50	13.80	38.80	8.10	46.84	68.20	-21.36	Pk	Horizontal
10400.27	36.50	44.50	13.80	38.80	8.10	44.60	54.00	-9.40	AV	Horizontal
11023.10	32.94	43.60	14.30	39.50	10.20	43.14	68.20	-25.06	Pk	Vertical
11023.10	30.71	43.60	14.30	39.50	10.20	40.91	54.00	-13.09	AV	Vertical
11031.90	33.46	43.60	14.30	39.50	10.20	43.66	68.20	-24.54	Pk	Horizontal
11031.90	30.56	43.60	14.30	39.50	10.20	40.76	54.00	-13.24	AV	Horizontal
13284.83	31.69	42.60	15.90	38.90	12.20	43.89	68.20	-24.31	Pk	Vertical
13284.83	29.90	42.60	15.90	38.90	12.20	42.10	54.00	-11.90	AV	Vertical
13289.46	32.31	42.60	15.90	38.90	12.20	44.51	68.20	-23.69	Pk	Horizontal
13289.46	29.85	42.60	15.90	38.90	12.20	42.05	54.00	-11.95	AV	Horizontal



High Channel (802.11/ 5240 MHz)										
3255.94	44.47	44.70	6.70	28.20	-9.80	34.67	68.20	-33.53	Pk	Vertical
3255.94	41.20	44.70	6.70	28.20	-9.80	31.40	54.00	-22.60	AV	Vertical
3261.13	44.46	44.70	6.70	28.20	-9.80	34.66	68.20	-33.54	Pk	Horizontal
3261.13	40.90	44.70	6.70	28.20	-9.80	31.10	54.00	-22.90	AV	Horizontal
3983.87	39.16	44.20	7.90	29.70	-6.60	32.56	68.20	-35.64	Pk	Vertical
3983.87	36.49	44.20	7.90	29.70	-6.60	29.89	54.00	-24.11	AV	Vertical
3987.67	39.18	44.20	7.90	29.70	-6.60	32.58	68.20	-35.62	Pk	Horizontal
3987.67	36.64	44.20	7.90	29.70	-6.60	30.04	54.00	-23.96	AV	Horizontal
7217.19	37.87	43.50	11.40	35.50	3.40	41.27	68.20	-26.93	Pk	Vertical
7217.19	34.17	43.50	11.40	35.50	3.40	37.57	54.00	-16.43	AV	Vertical
7236.37	36.86	43.50	11.40	35.50	3.40	40.26	68.20	-27.94	Pk	Horizontal
7236.37	33.89	43.50	11.40	35.50	3.40	37.29	54.00	-16.71	AV	Horizontal
10480.03	39.31	44.50	13.80	38.80	8.10	47.41	68.20	-20.79	Pk	Vertical
10480.03	35.92	44.50	13.80	38.80	8.10	44.02	54.00	-9.98	AV	Vertical
10479.98	38.76	44.50	13.80	38.80	8.10	46.86	68.20	-21.34	Pk	Horizontal
10479.98	37.01	44.50	13.80	38.80	8.10	45.11	54.00	-8.89	AV	Horizontal
11016.59	34.17	43.60	14.30	39.50	10.20	44.37	68.20	-23.83	Pk	Vertical
11016.59	31.01	43.60	14.30	39.50	10.20	41.21	54.00	-12.79	AV	Vertical
11023.61	32.83	43.60	14.30	39.50	10.20	43.03	68.20	-25.17	Pk	Horizontal
11023.61	30.33	43.60	14.30	39.50	10.20	40.53	54.00	-13.47	AV	Horizontal
13293.27	31.82	42.60	15.90	38.90	12.20	44.02	68.20	-24.18	Pk	Vertical
13293.27	29.30	42.60	15.90	38.90	12.20	41.50	54.00	-12.50	AV	Vertical
13284.29	32.53	42.60	15.90	38.90	12.20	44.73	68.20	-23.47	Pk	Horizontal
13284.29	28.84	42.60	15.90	38.90	12.20	41.04	54.00	-12.96	AV	Horizontal

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Scan with 802.11a, 802.11n (HT-20), 802.11n (HT-40), 802.11ac (VHT-20), 802.11ac (VHT-40), 802.11ac (VHT-80) the worst case is 802.11n (HT-20).
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.
4. Pre-scan both the SISO and MIMO mode, only the worst-case results were reported



Band IV(5.725-5.850) GHz

Frequency (MHz)	Reading (dBuV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
Low Channel (802.11/ 5180 MHz)										
3259.02	43.79	44.70	6.70	28.20	-9.80	33.99	68.20	-34.21	Pk	Vertical
3259.02	41.82	44.70	6.70	28.20	-9.80	32.02	54.00	-21.98	AV	Vertical
3254.81	44.35	44.70	6.70	28.20	-9.80	34.55	68.20	-33.65	Pk	Horizontal
3254.81	40.74	44.70	6.70	28.20	-9.80	30.94	54.00	-23.06	AV	Horizontal
3990.13	39.01	44.20	7.90	29.70	-6.60	32.41	68.20	-35.79	Pk	Vertical
3990.13	37.07	44.20	7.90	29.70	-6.60	30.47	54.00	-23.53	AV	Vertical
3983.16	39.05	44.20	7.90	29.70	-6.60	32.45	68.20	-35.75	Pk	Horizontal
3983.16	35.77	44.20	7.90	29.70	-6.60	29.17	54.00	-24.83	AV	Horizontal
7222.53	37.70	43.50	11.40	35.50	3.40	41.10	68.20	-27.10	Pk	Vertical
7222.53	33.47	43.50	11.40	35.50	3.40	36.87	54.00	-17.13	AV	Vertical
7226.89	37.39	43.50	11.40	35.50	3.40	40.79	68.20	-27.41	Pk	Horizontal
7226.89	34.48	43.50	11.40	35.50	3.40	37.88	54.00	-16.12	AV	Horizontal
10360.40	39.91	44.50	13.80	38.80	8.10	48.01	68.20	-20.19	Pk	Vertical
10360.40	36.25	44.50	13.80	38.80	8.10	44.35	54.00	-9.65	AV	Vertical
10360.37	39.33	44.50	13.80	38.80	8.10	47.43	68.20	-20.77	Pk	Horizontal
10360.37	36.17	44.50	13.80	38.80	8.10	44.27	54.00	-9.73	AV	Horizontal
11034.57	33.85	43.60	14.30	39.50	10.20	44.05	68.20	-24.15	Pk	Vertical
11034.57	30.00	43.60	14.30	39.50	10.20	40.20	54.00	-13.80	AV	Vertical
11028.29	33.32	43.60	14.30	39.50	10.20	43.52	68.20	-24.68	Pk	Horizontal
11028.29	30.74	43.60	14.30	39.50	10.20	40.94	54.00	-13.06	AV	Horizontal
13288.00	32.79	42.60	15.90	38.90	12.20	44.99	68.20	-23.21	Pk	Vertical
13288.00	28.76	42.60	15.90	38.90	12.20	40.96	54.00	-13.04	AV	Vertical
13289.58	31.99	42.60	15.90	38.90	12.20	44.19	68.20	-24.01	Pk	Horizontal
13289.58	29.47	42.60	15.90	38.90	12.20	41.67	54.00	-12.33	AV	Horizontal



Mid Channel (802.11/ 5200 MHz)										
3256.80	43.80	44.70	6.70	28.20	-9.80	34.00	68.20	-34.20	Pk	Vertical
3256.80	41.83	44.70	6.70	28.20	-9.80	32.03	54.00	-21.97	AV	Vertical
3257.91	44.62	44.70	6.70	28.20	-9.80	34.82	68.20	-33.38	Pk	Horizontal
3257.91	40.95	44.70	6.70	28.20	-9.80	31.15	54.00	-22.85	AV	Horizontal
3990.95	39.85	44.20	7.90	29.70	-6.60	33.25	68.20	-34.95	Pk	Vertical
3990.95	37.14	44.20	7.90	29.70	-6.60	30.54	54.00	-23.46	AV	Vertical
3984.34	40.09	44.20	7.90	29.70	-6.60	33.49	68.20	-34.71	Pk	Horizontal
3984.34	36.08	44.20	7.90	29.70	-6.60	29.48	54.00	-24.52	AV	Horizontal
7223.98	37.43	43.50	11.40	35.50	3.40	40.83	68.20	-27.37	Pk	Vertical
7223.98	34.27	43.50	11.40	35.50	3.40	37.67	54.00	-16.33	AV	Vertical
7218.54	37.44	43.50	11.40	35.50	3.40	40.84	68.20	-27.36	Pk	Horizontal
7218.54	33.86	43.50	11.40	35.50	3.40	37.26	54.00	-16.74	AV	Horizontal
10400.06	39.15	44.50	13.80	38.80	8.10	47.25	68.20	-20.95	Pk	Vertical
10400.06	36.15	44.50	13.80	38.80	8.10	44.25	54.00	-9.75	AV	Vertical
10400.40	38.97	44.50	13.80	38.80	8.10	47.07	68.20	-21.13	Pk	Horizontal
10400.40	36.22	44.50	13.80	38.80	8.10	44.32	54.00	-9.68	AV	Horizontal
11022.79	32.86	43.60	14.30	39.50	10.20	43.06	68.20	-25.14	Pk	Vertical
11022.79	30.92	43.60	14.30	39.50	10.20	41.12	54.00	-12.88	AV	Vertical
11020.95	33.52	43.60	14.30	39.50	10.20	43.72	68.20	-24.48	Pk	Horizontal
11020.95	30.53	43.60	14.30	39.50	10.20	40.73	54.00	-13.27	AV	Horizontal
13285.10	32.86	42.60	15.90	38.90	12.20	45.06	68.20	-23.14	Pk	Vertical
13285.10	29.06	42.60	15.90	38.90	12.20	41.26	54.00	-12.74	AV	Vertical
13286.38	32.61	42.60	15.90	38.90	12.20	44.81	68.20	-23.39	Pk	Horizontal
13286.38	28.97	42.60	15.90	38.90	12.20	41.17	54.00	-12.83	AV	Horizontal



High Channel (802.11/ 5240 MHz)										
3263.81	44.05	44.70	6.70	28.20	-9.80	34.25	68.20	-33.95	Pk	Vertical
3263.81	41.83	44.70	6.70	28.20	-9.80	32.03	54.00	-21.97	AV	Vertical
3247.06	44.76	44.70	6.70	28.20	-9.80	34.96	68.20	-33.24	Pk	Horizontal
3247.06	40.85	44.70	6.70	28.20	-9.80	31.05	54.00	-22.95	AV	Horizontal
3985.81	38.70	44.20	7.90	29.70	-6.60	32.10	68.20	-36.10	Pk	Vertical
3985.81	36.60	44.20	7.90	29.70	-6.60	30.00	54.00	-24.00	AV	Vertical
3994.16	39.66	44.20	7.90	29.70	-6.60	33.06	68.20	-35.14	Pk	Horizontal
3994.16	36.50	44.20	7.90	29.70	-6.60	29.90	54.00	-24.10	AV	Horizontal
7223.58	36.70	43.50	11.40	35.50	3.40	40.10	68.20	-28.10	Pk	Vertical
7223.58	34.64	43.50	11.40	35.50	3.40	38.04	54.00	-15.96	AV	Vertical
7220.59	36.58	43.50	11.40	35.50	3.40	39.98	68.20	-28.22	Pk	Horizontal
7220.59	34.68	43.50	11.40	35.50	3.40	38.08	54.00	-15.92	AV	Horizontal
10480.38	38.98	44.50	13.80	38.80	8.10	47.08	68.20	-21.12	Pk	Vertical
10480.38	37.08	44.50	13.80	38.80	8.10	45.18	54.00	-8.82	AV	Vertical
10480.06	39.49	44.50	13.80	38.80	8.10	47.59	68.20	-20.61	Pk	Horizontal
10480.06	37.11	44.50	13.80	38.80	8.10	45.21	54.00	-8.79	AV	Horizontal
11027.24	33.56	43.60	14.30	39.50	10.20	43.76	68.20	-24.44	Pk	Vertical
11027.24	30.27	43.60	14.30	39.50	10.20	40.47	54.00	-13.53	AV	Vertical
11036.40	33.20	43.60	14.30	39.50	10.20	43.40	68.20	-24.80	Pk	Horizontal
11036.40	30.72	43.60	14.30	39.50	10.20	40.92	54.00	-13.08	AV	Horizontal
13294.09	32.78	42.60	15.90	38.90	12.20	44.98	68.20	-23.22	Pk	Vertical
13294.09	29.63	42.60	15.90	38.90	12.20	41.83	54.00	-12.17	AV	Vertical
13282.10	31.98	42.60	15.90	38.90	12.20	44.18	68.20	-24.02	Pk	Horizontal
13282.10	29.23	42.60	15.90	38.90	12.20	41.43	54.00	-12.57	AV	Horizontal

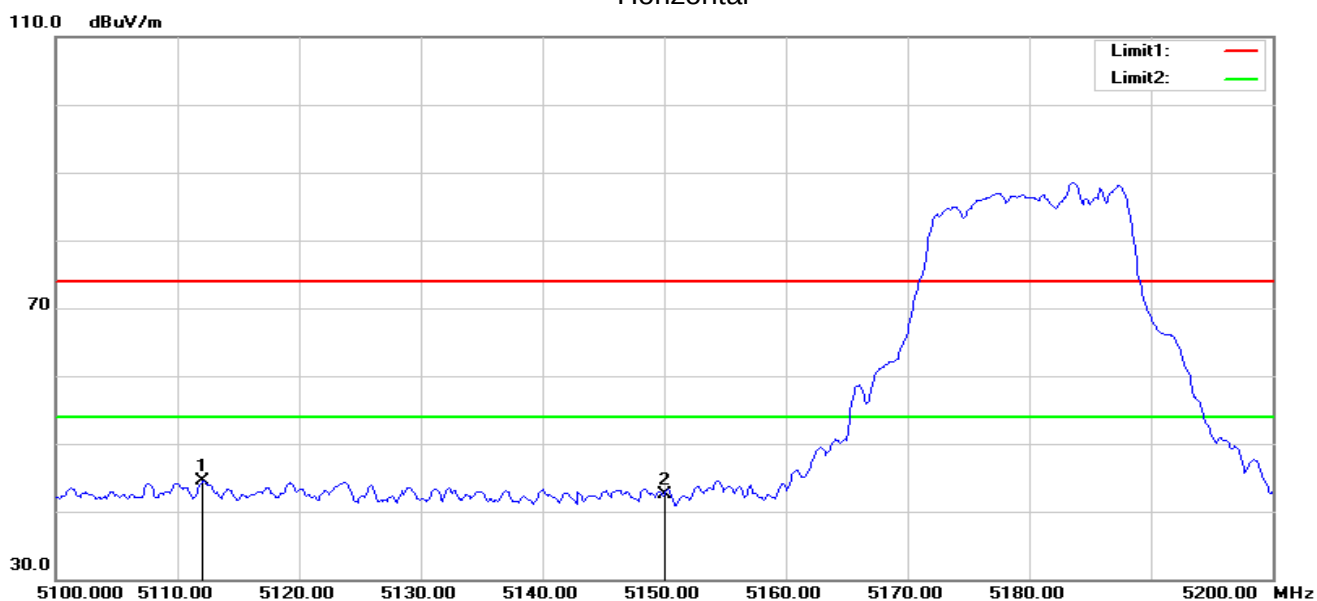
Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Scan with 802.11a, 802.11n (HT-20), 802.11n (HT-40), 802.11ac (VHT-20), 802.11ac (VHT-40), 802.11ac (VHT-80) the worst case is 802.11n (HT-20).
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.
4. Pre-scan both the SISO and MIMO mode, only the worst-case results were reported.



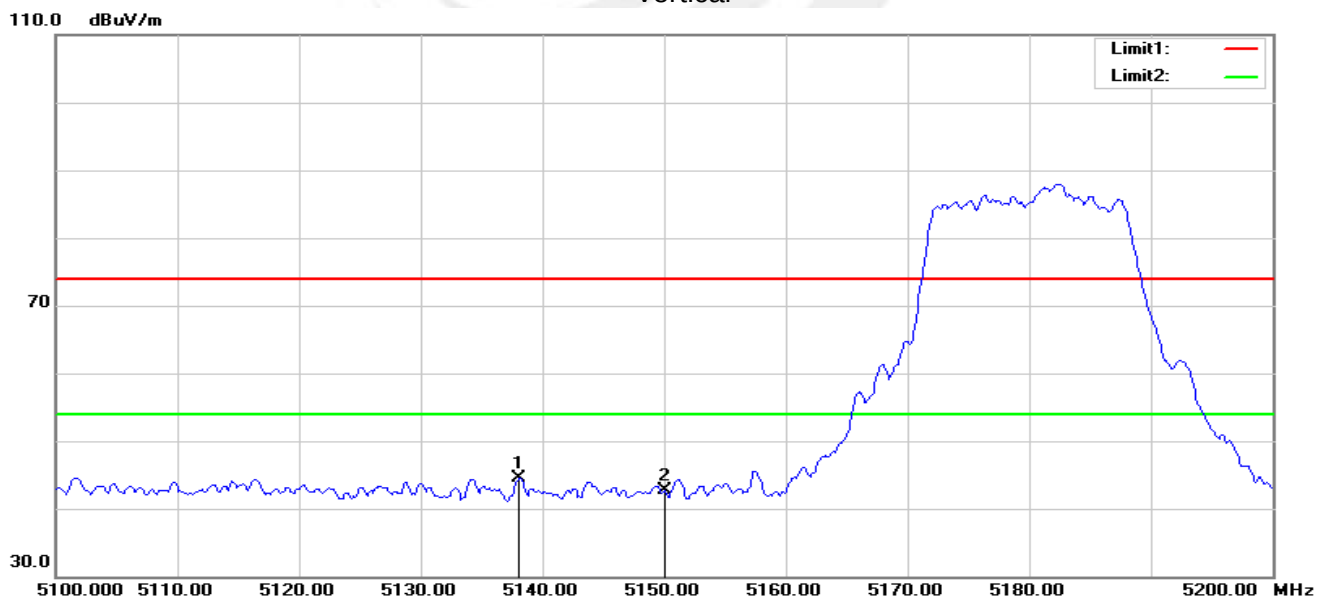
3.2.9 Band Edge

Band I 5150-5250 MHz

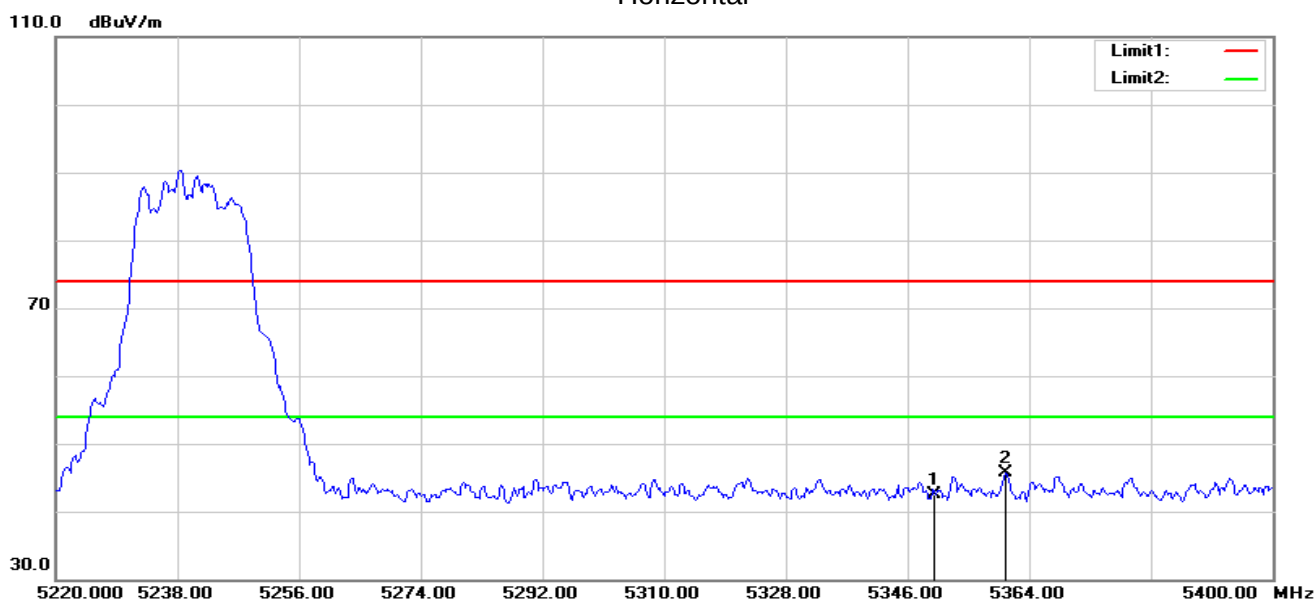
802.11a Low
Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5112.100	50.21	-5.74	44.47	68.20	-29.53	peak
2	5150.000	48.26	-5.73	42.53	68.20	-31.47	peak

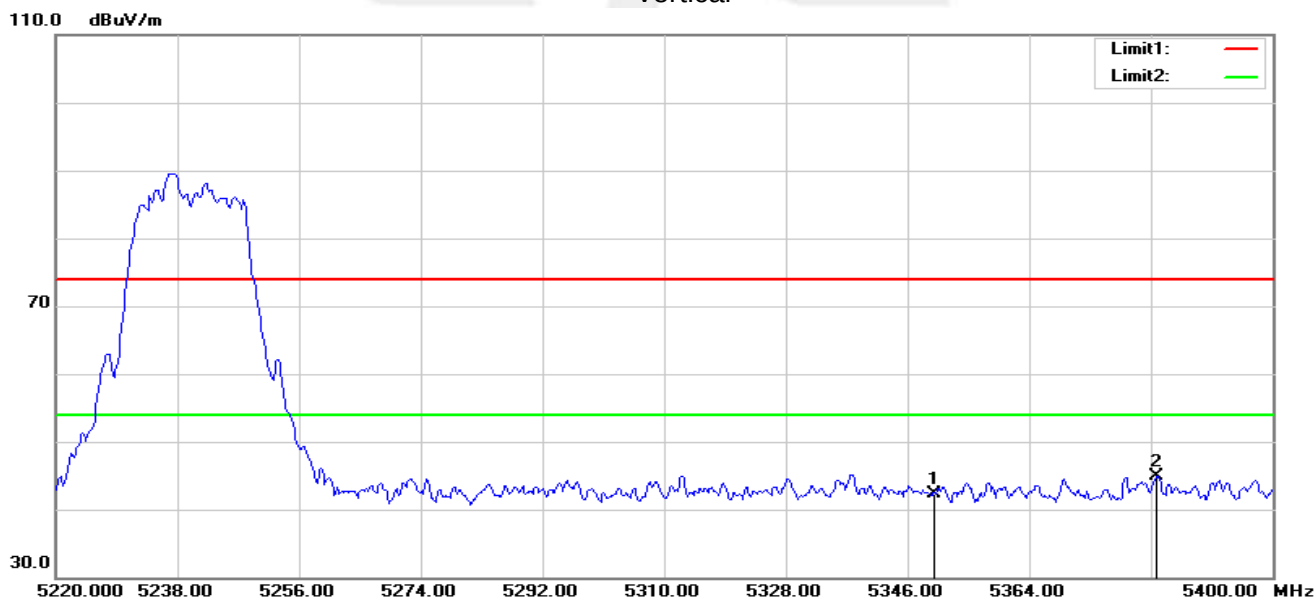
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5138.100	50.23	-5.74	44.49	68.20	-29.51	peak
2	5150.000	48.37	-5.73	42.64	68.20	-31.36	peak

**802.11a High
Horizontal**

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	47.67	-5.23	42.44	68.20	-31.56	peak
2	5360.580	50.95	-5.23	45.72	68.20	-28.28	peak

Vertical

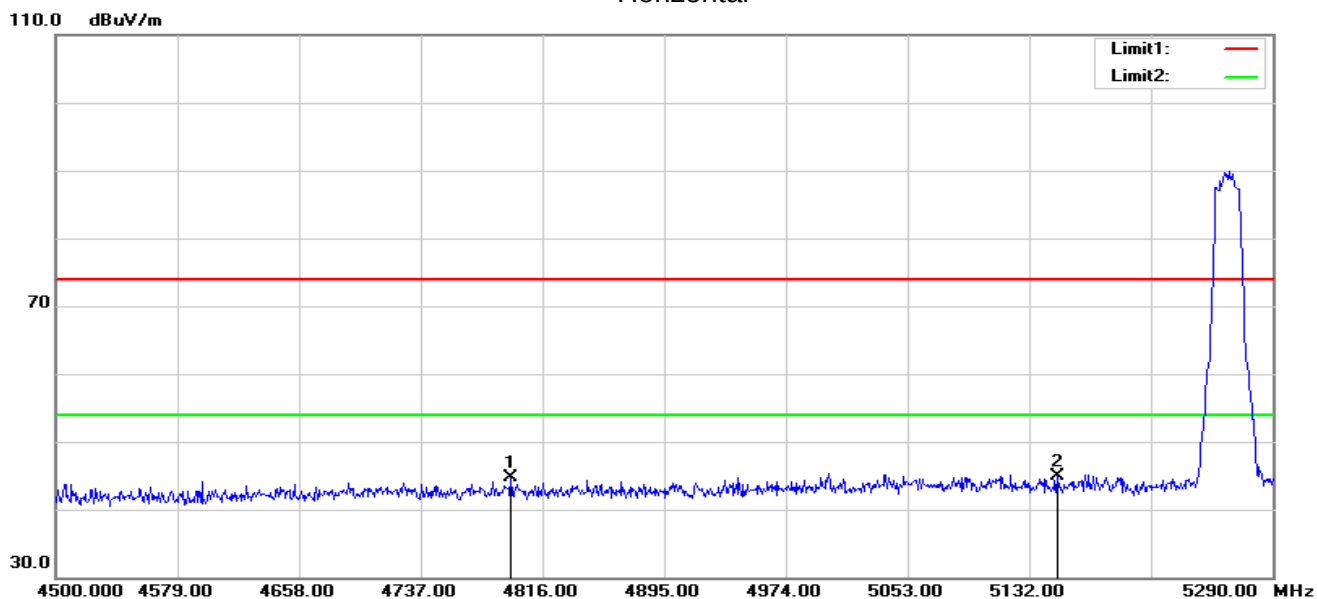
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	47.56	-5.23	42.33	68.20	-31.67	peak
2	5382.900	50.13	-5.24	44.89	68.20	-29.11	peak

Note: 1. 802.11a, 802.11n (HT-20), 802.11n (HT-40), 802.11ac (VHT-20), 802.11ac (VHT-40), 802.11ac (VHT-80) all has been tested, the worst case is 802.11a, only shown the worst case.

2. Pre-scan both the SISO and MIMO mode, only the worst-case results were reported.

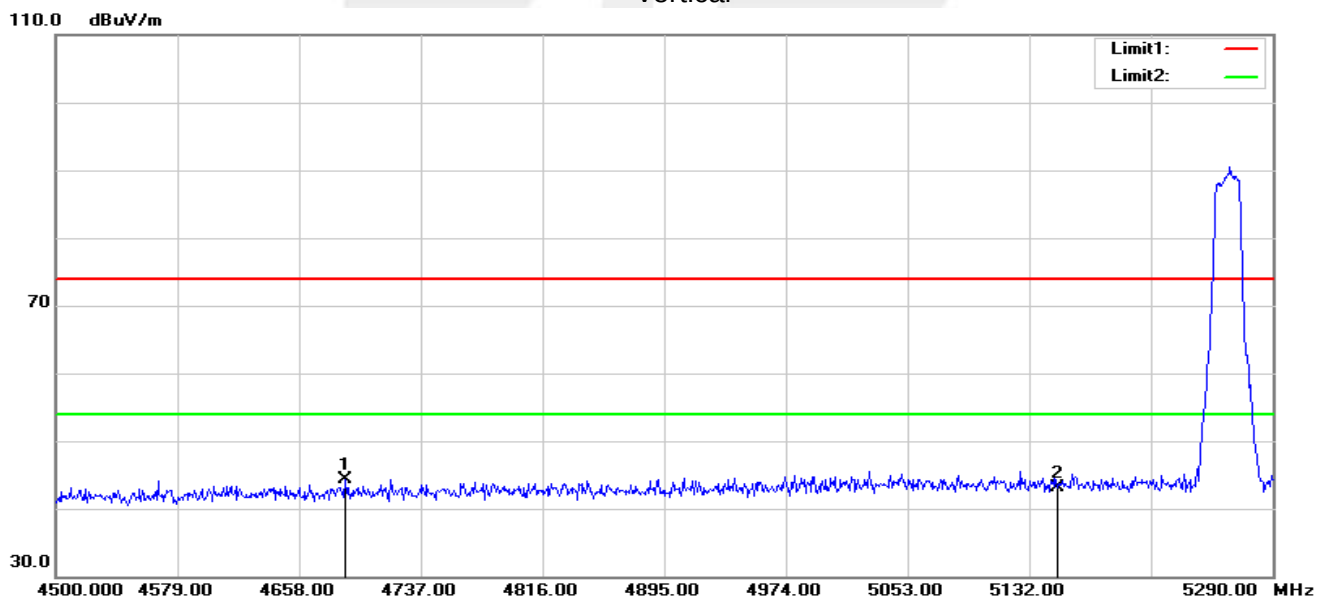


Band II 5250-5350MHz

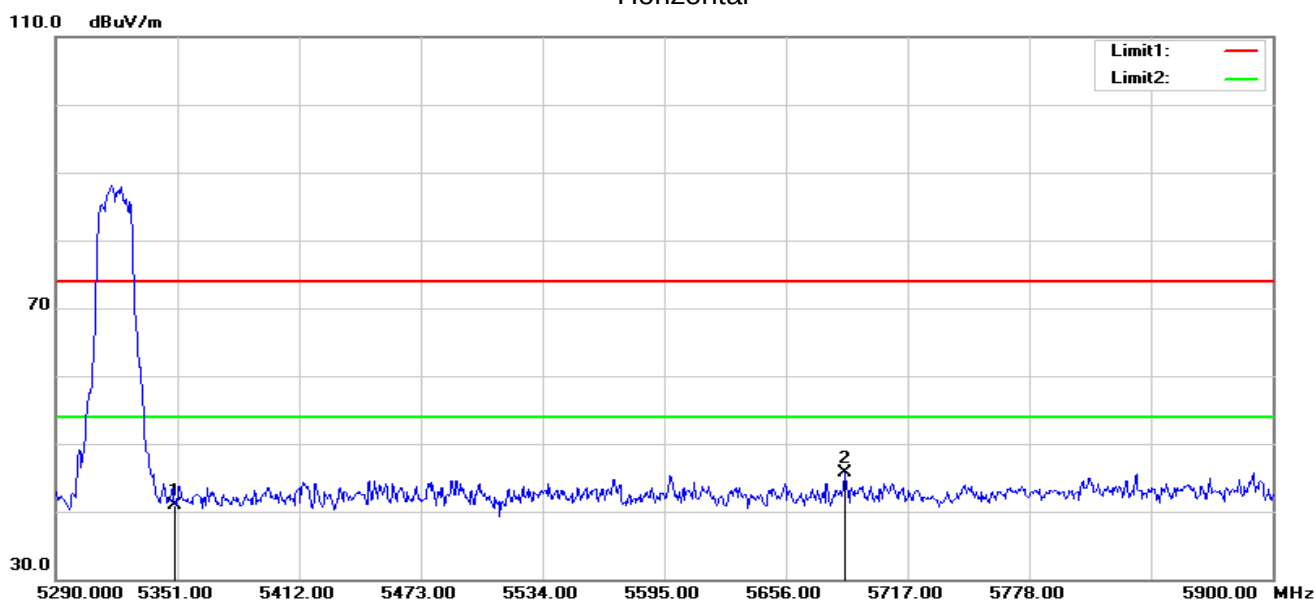
802.11a Low
Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4795.460	52.01	-7.23	44.78	68.20	-29.22	peak
2	5150.000	50.57	-5.73	44.84	68.20	-29.16	peak

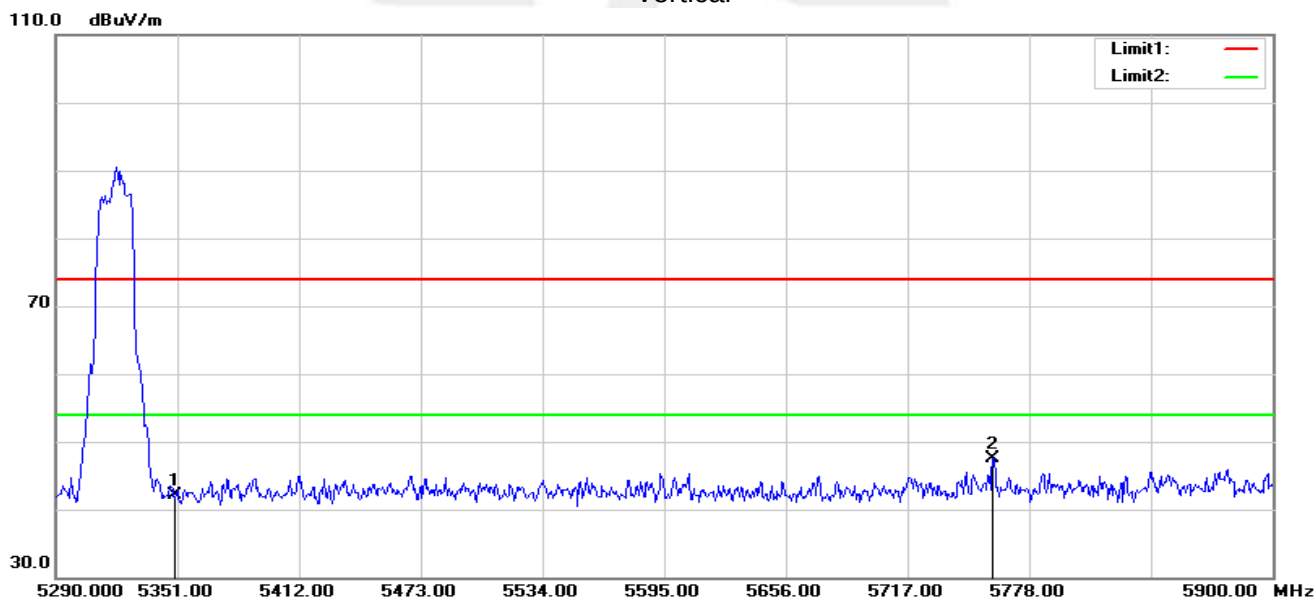
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4688.020	51.77	-7.42	44.35	68.20	-29.65	peak
2	5150.000	48.84	-5.73	43.11	68.20	-30.89	peak

**802.11a High
Horizontal**

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	46.22	-5.23	40.99	68.20	-33.01	peak
2	5685.890	50.31	-4.66	45.65	68.20	-28.35	peak

Vertical

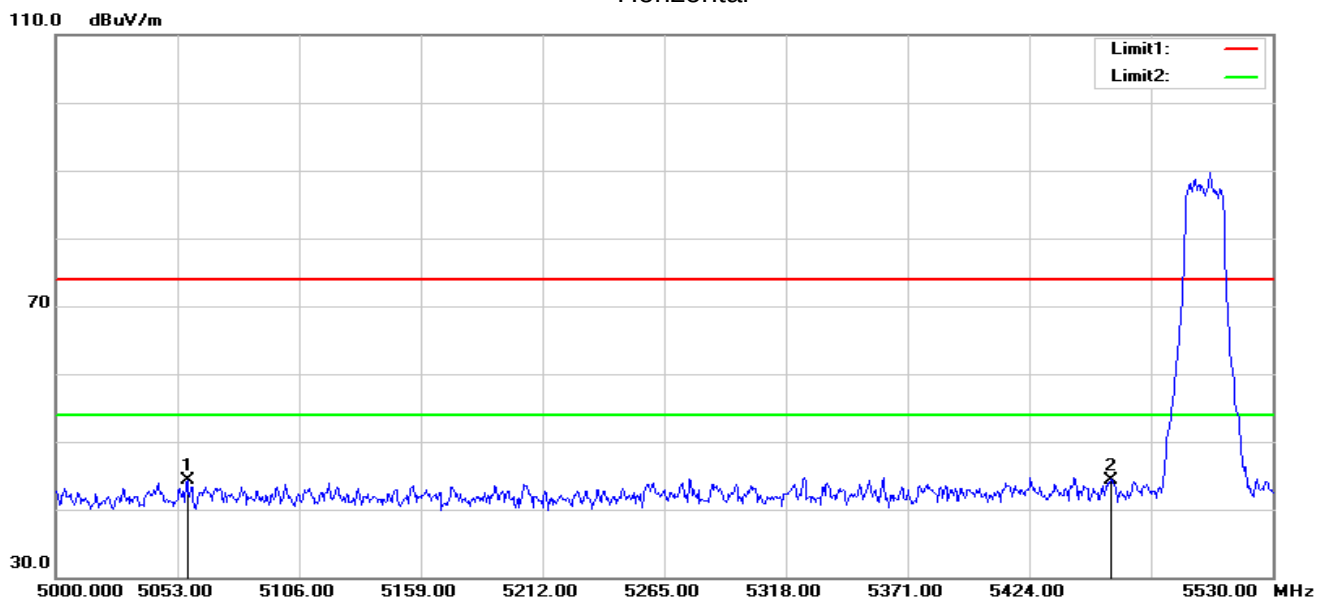
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	47.42	-5.23	42.19	68.20	-31.81	peak
2	5759.700	52.02	-4.45	47.57	68.20	-26.43	peak

Note: 1. 802.11a, 802.11n (HT-20), 802.11n (HT-40), 802.11ac (VHT-20), 802.11ac (VHT-40), 802.11ac (VHT-80) all has been tested, the worst case is 802.11a, only shown the worst case.

2. Pre-scan both the SISO and MIMO mode, only the worst-case results were reported.

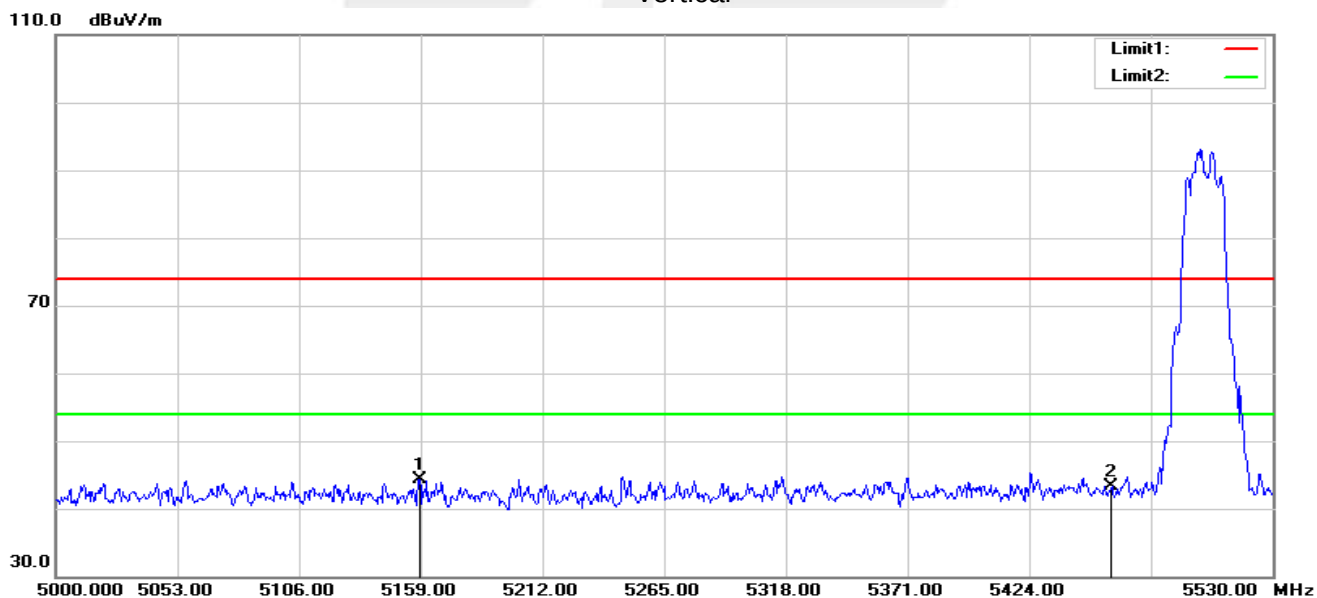


Band III 5470-5725MHz

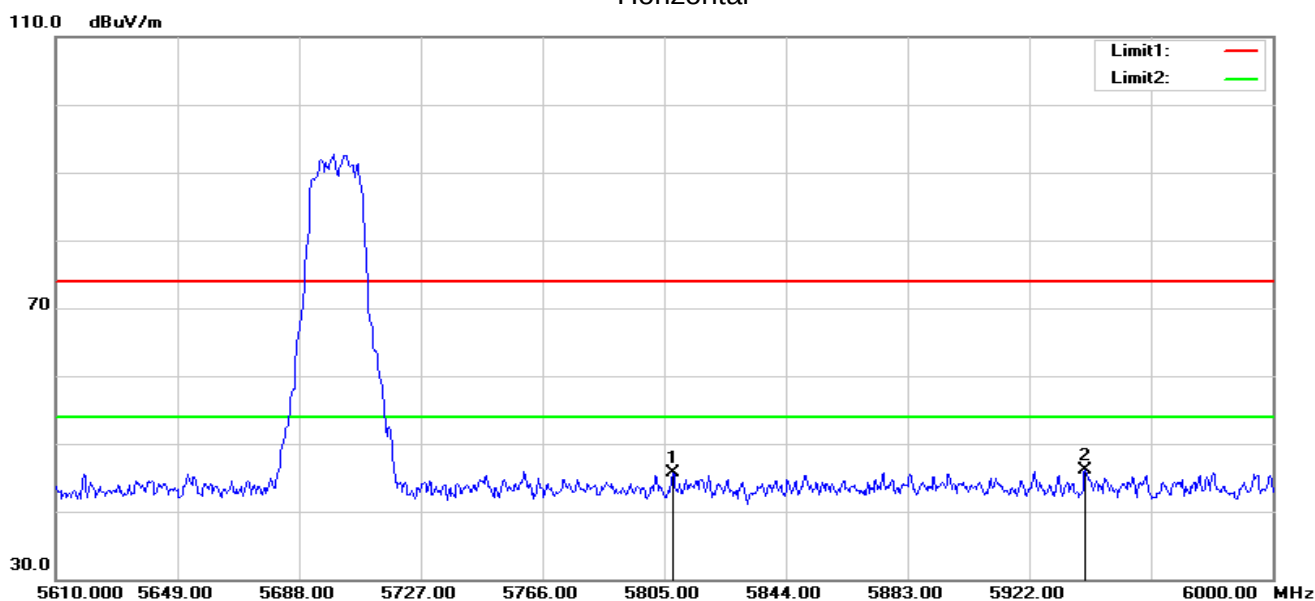
802.11a Low
Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5057.240	50.27	-5.93	44.34	68.20	-29.66	peak
2	5460.000	49.33	-5.11	44.22	68.20	-29.78	peak

Vertical

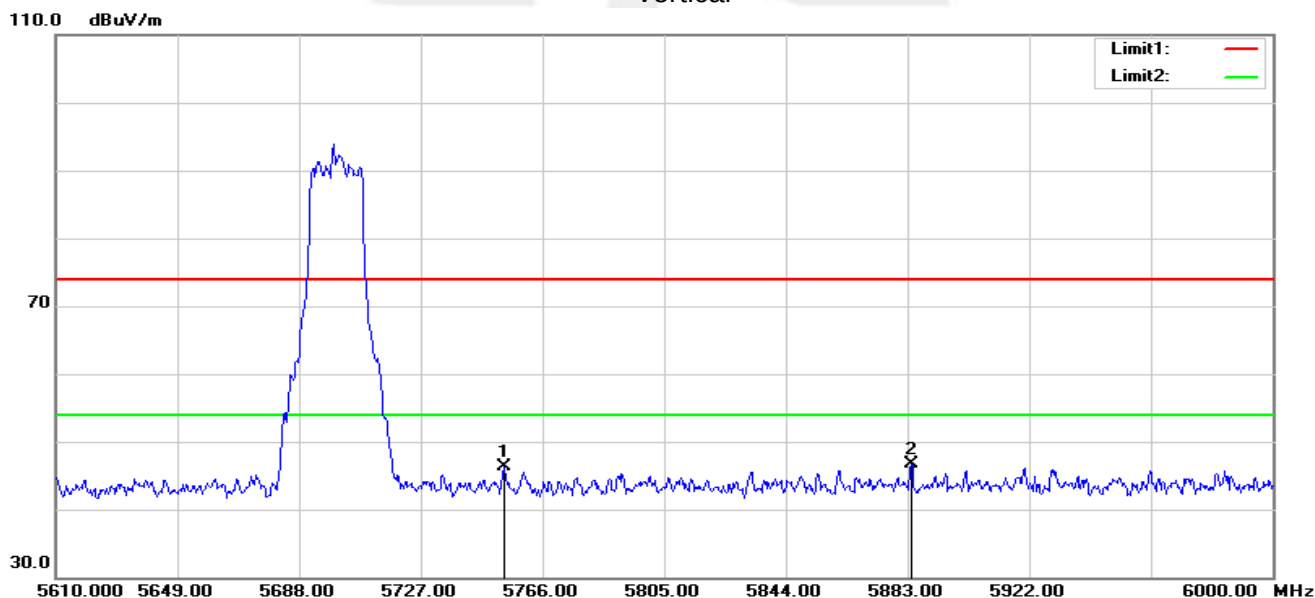


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5158.470	50.06	-5.73	44.33	68.20	-29.67	peak
2	5460.000	48.39	-5.11	43.28	68.20	-30.72	peak

**802.11a High**
Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5807.730	50.00	-4.29	45.71	68.20	-28.29	peak
2	5939.940	50.14	-3.95	46.19	68.20	-27.81	peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5753.520	50.70	-4.47	46.23	68.20	-27.77	peak
2	5884.170	50.67	-3.95	46.72	68.20	-27.28	peak

Note: 1. 802.11a, 802.11n (HT-20), 802.11n (HT-40), 802.11ac (VHT-20), 802.11ac (VHT-40), 802.11ac (VHT-80) all has been tested, the worst case is 802.11a, only shown the worst case.

2. Pre-scan both the SISO and MIMO mode, only the worst-case results were reported.

Band IV(5.725-5.85 GHz)

Note: The main frequency is too far away from the restricted band and does not require testing.



4. CONDUCTED SPURIOUS EMISSIONS AND BANDEDGE

4.1 LIMIT

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) For transmitters operating in the 5.725-5.85 GHz band:
 - (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.

4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	1000 KHz/3000 KHz
Trace-Mode:	Max hold

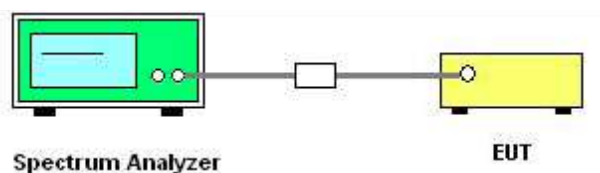
For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 5700to5725 MHz Upper Band Edge: 5850to5870 MHz
RB / VB (emission in restricted band)	1000 KHz/3000 KHz
Trace-Mode:	Max hold

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1000 kHz. In order to make an accurate measurement, set the span greater than RBW.

4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS

Data See Attachment A





5. POWER SPECTRAL DENSITY TEST

5.1 LIMIT

1. For mobile and portable 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.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antenna directional gain is greater than 6 dBi, both the maximum conducted output power and the peak 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

1. The setting follows Method SA-1 of FCC KDB D02 General UNII Test Procedures New Rules v01r03.

For devices operating in the band, the rules specify a measurement bandwidth of 500 kHz.

Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used.

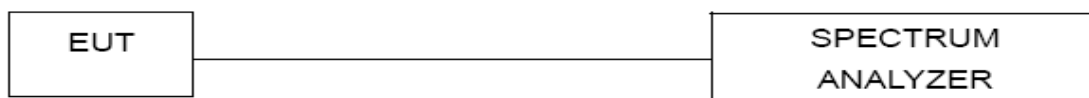
The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (*i.e.*, 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

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

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

**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

5150-5250MHz					
Frequency	Power Density A(dBm)	Power Density B(dBm)	Power Density Total(dBm)	Limit	Result
802.11a					
5180	5.294	1.685	--	11	PASS
5200	5.241	3.695	--	11	PASS
5240	4.794	1.645	--	11	PASS
802.11n20					
5180	7.181	4.100	8.918	11	PASS
5200	6.038	2.645	7.675	11	PASS
5240	6.724	4.650	8.820	11	PASS
802.11n40					
5190	3.557	1.942	5.834	11	PASS
5230	3.197	0.785	5.167	11	PASS
802.11ac20					
5180	6.790	3.175	8.359	11	PASS
5200	6.443	2.941	8.046	11	PASS
5240	5.817	2.948	7.626	11	PASS
802.11ac40					
5190	3.450	0.786	5.329	11	PASS
5230	3.531	1.020	5.465	11	PASS
802.11ac80					
5210	-0.178	-3.948	1.344	11	PASS

5250-5350MHz					
Frequency	Power Density A(dBm)	Power Density B(dBm)	Power Density Total(dBm)	Limit	Result
802.11a					
5260	4.463	1.952	--	11	PASS
5300	4.842	1.485	--	11	PASS
5320	4.803	1.754	--	11	PASS
802.11n20					
5260	6.267	3.229	8.019	11	PASS
5300	6.599	2.654	8.070	11	PASS
5320	6.442	1.978	7.770	11	PASS
802.11n40					
5270	3.474	2.310	5.941	11	PASS
5310	3.041	1.361	5.292	11	PASS
802.11ac20					
5260	6.404	2.486	7.883	11	PASS
5300	6.618	2.656	8.084	11	PASS



5320	6.697	2.695	8.152	11	PASS
802.11ac40					
5270	3.252	0.964	5.267	11	PASS
5310	3.115	0.876	5.149	11	PASS
802.11ac80					
5290	-0.655	-2.329	1.598	11	PASS

5470-5725MHz					
Frequency	Power Density A(dBm)	Power Density B(dBm)	Power Density Total(dBm)	Limit	Result
802.11a					
5500	4.602	1.363	--	11	PASS
5580	5.192	2.674	--	11	PASS
5700	3.165	0.312	--	11	PASS
802.11n20					
5500	6.346	3.654	8.216	11	PASS
5580	6.716	2.358	8.072	11	PASS
5700	5.034	2.188	6.850	11	PASS
802.11n40					
5510	3.306	2.675	6.012	11	PASS
5550	5.795	3.654	7.865	11	PASS
5670	2.309	0.322	4.438	11	PASS
802.11ac20					
5500	6.251	2.684	7.834	11	PASS
5580	6.850	3.485	8.496	11	PASS
5700	4.462	2.378	6.554	11	PASS
802.11ac40					
5510	2.963	-1.456	4.303	11	PASS
5550	3.694	-1.346	4.878	11	PASS
5670	2.302	-1.842	3.717	11	PASS
802.11ac80					
5530	1.734	-2.169	3.217	11	PASS
5610	-0.235	-5.614	0.870	11	PASS

5725-5850MHz					
Frequency	Power Density A(dBm)	Power Density B(dBm)	Power Density Total(dBm)	Limit	Result
802.11a					
5745	0.566	-3.425	--	30	PASS
5785	-0.904	-5.123	--	30	PASS
5825	-1.452	-5.620	--	30	PASS
802.11n20					
5745	0.796	-3.591	2.145	30	PASS
5785	-0.756	-5.057	0.616	30	PASS
5825	-0.930	-5.118	0.473	30	PASS
802.11n40					
5755	-1.762	-5.854	-0.333	30	PASS
5795	-3.465	-7.519	-2.025	30	PASS
802.11ac20					
5745	0.800	-3.154	2.269	30	PASS
5785	-1.394	-5.368	0.069	30	PASS
5825	-0.937	-5.241	0.434	30	PASS



802.11ac40					
5755	-2.060	-6.162	-0.633	30	PASS
5795	-4.332	-8.157	-2.826	30	PASS
802.11ac80					
5775	-6.690	-10.351	-5.135	30	PASS

Data see Attachment B





6. BANDWIDTH MEASUREMENT

6.1. EMISSION BANDWIDTH (EBW) 26 BANDWIDTH PROCEDURES / LIMIT

See list of measuring instruments of this test report.

6.1.1. TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW $\geq$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6.1.2. DEVIATION FROM STANDARD

No deviation.

6.1.3. TEST SETUP



6.1.4. 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.

**6.1.5 TEST RESULTS**

802.11a		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5180	22.15	Pass
5200	22.13	Pass
5240	23.11	Pass
802.11n(HT20)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5180	22.50	Pass
5200	22.84	Pass
5240	22.86	Pass
802.11n(HT40)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5180	41.29	Pass
5200	41.27	Pass
802.11ac(VHT20)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5180	23.47	Pass
5200	24.38	Pass
5240	23.13	Pass
802.11ac(VHT40)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5180	41.25	Pass
5200	41.26	Pass
802.11ac(VHT80)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5210	82.38	Pass

802.11a		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5260	22.26	Pass
5300	21.95	Pass
5320	22.03	Pass
802.11n(HT20)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5260	22.93	Pass
5300	22.39	Pass
5320	22.77	Pass
802.11n(HT40)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5270	40.96	Pass
5310	40.74	Pass



802.11ac(VHT20)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5260	23.42	Pass
5300	22.88	Pass
5320	22.56	Pass
802.11ac(VHT40)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5270	40.85	Pass
5310	40.97	Pass
802.11ac(VHT80)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5290	82.54	Pass

802.11a		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5500	22.04	Pass
5580	22.13	Pass
5700	21.16	Pass
802.11n(HT20)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5500	22.47	Pass
5580	22.24	Pass
5700	22.42	Pass
802.11n(HT40)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5510	40.82	Pass
5550	40.90	Pass
5670	40.90	Pass
802.11ac(VHT20)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5500	22.19	Pass
5580	22.38	Pass
5700	22.42	Pass
802.11ac(VHT40)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5510	40.74	Pass
5550	40.73	Pass
5670	40.79	Pass
802.11ac(VHT80)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5530	82.92	Pass
5610	82.84	Pass



802.11a		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5745	21.49	Pass
5785	21.70	Pass
5825	22.12	Pass
802.11n(HT20)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5745	22.17	Pass
5785	22.68	Pass
5825	22.65	Pass
802.11n(HT40)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5755	40.16	Pass
5795	41.03	Pass
802.11ac(VHT20)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5745	22.68	Pass
5785	22.37	Pass
5825	22.49	Pass
802.11ac(VHT40)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5755	40.96	Pass
5795	40.98	Pass
802.11ac(VHT80)		
Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
5775	81.32	Pass

Test plot see AttachmentC



6.2 OCCUPIED BANDWIDTH (99%) TEST APPLIED PROCEDURES / LIMIT

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

6.2.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.

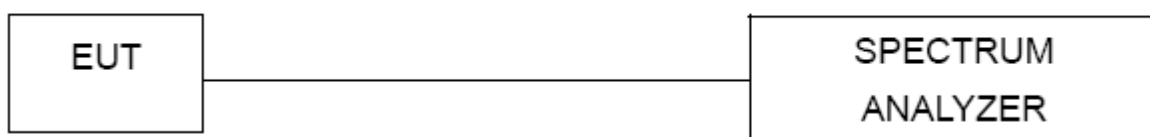
The following procedure shall be used for measuring (99 %) power bandwidth:

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

6.2.2 DEVIATION FROM STANDARD

No deviation.

6.2.3 TEST SETUP



6.2.4 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.

**6.2.5 TEST RESULTS**

802.11a		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5180	16.57	Pass
5200	16.56	Pass
5240	16.57	Pass
802.11n(HT20)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5180	17.77	Pass
5200	17.76	Pass
5240	17.75	Pass
802.11n(HT40)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5180	36.21	Pass
5200	36.20	Pass
802.11ac(VHT20)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5180	17.75	Pass
5200	17.77	Pass
5240	17.74	Pass
802.11ac(VHT40)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5180	36.17	Pass
5200	36.26	Pass
802.11ac(VHT80)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5210	75.77	Pass

802.11a		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5260	16.53	Pass
5300	16.52	Pass
5320	16.51	Pass
802.11n(HT20)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5260	17.73	Pass
5300	17.76	Pass
5320	17.73	Pass
802.11n(HT40)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5270	36.20	Pass
5310	36.19	Pass



802.11ac(VHT20)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5260	17.76	Pass
5300	17.75	Pass
5320	17.75	Pass
802.11ac(VHT40)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5270	36.24	Pass
5310	36.20	Pass
802.11ac(VHT80)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5290	75.76	Pass

802.11a		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5500	16.49	Pass
5580	16.51	Pass
5700	16.51	Pass
802.11n(HT20)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5500	17.72	Pass
5580	17.72	Pass
5700	17.71	Pass
802.11n(HT40)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5510	36.17	Pass
5550	36.18	Pass
5670	36.17	Pass
802.11ac(VHT20)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5500	17.71	Pass
5580	17.69	Pass
5700	17.74	Pass
802.11ac(VHT40)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5510	36.20	Pass
5550	36.18	Pass
5670	36.15	Pass
802.11ac(VHT80)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5530	75.78	Pass
5610	75.79	Pass



802.11a		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5745	16.50	Pass
5785	16.52	Pass
5825	16.51	Pass
802.11n(HT20)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5745	17.73	Pass
5785	17.75	Pass
5825	17.72	Pass
802.11n(HT40)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5755	36.23	Pass
5795	36.22	Pass
802.11ac(VHT20)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5745	17.73	Pass
5785	17.73	Pass
5825	17.75	Pass
802.11ac(VHT40)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5755	36.18	Pass
5795	36.17	Pass
802.11ac(VHT80)		
Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
5775	75.24	Pass

Test plot See Attachment C



6.3 MINIMUM EMISSION BANDWIDTH(6 DB) PROCEDURES / LIMIT

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

6.3.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.
 - a) Set RBW = 100 kHz.
 - b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
 - c) Detector = Peak.
 - d) Trace mode = max hold.
 - e) Sweep = auto couple.
 - f) Allow the trace to stabilize.
 - g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3.2 DEVIATION FROM STANDARD

No deviation.

6.3.3 TEST SETUP



6.3.4 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.

**6.3.5 TEST RESULTS**

802.11a		
Frequency (MHz)	6dB Bandwidth (MHz)	Pass/Fail
5745	15.64	Pass
5785	15.62	Pass
5825	15.35	Pass
802.11n(HT20)		
Frequency (MHz)	6dB Bandwidth (MHz)	Pass/Fail
5745	16.06	Pass
5785	15.47	Pass
5825	15.13	Pass
802.11n(HT40)		
Frequency (MHz)	6dB Bandwidth (MHz)	Pass/Fail
5755	39.58	Pass
5795	39.77	Pass
802.11ac(VHT20)		
Frequency (MHz)	6dB Bandwidth (MHz)	Pass/Fail
5745	15.08	Pass
5785	15.61	Pass
5825	15.15	Pass
802.11ac(VHT40)		
Frequency (MHz)	6dB Bandwidth (MHz)	Pass/Fail
5755	36.14	Pass
5795	36.25	Pass
802.11ac(VHT80)		
Frequency (MHz)	6dB Bandwidth (MHz)	Pass/Fail
5775	75.23	Pass

Test plots see AttachmentD



7. MAXIMUM CONDUCTED OUTPUT POWER

7.1 LIMIT

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used.

For the band 5.725-5.85 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.

FCC Part 15 (15.407) , Subpart E				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.407(a)(1)(iv)	Peak Output Power	0.25 watt	5150-5250	PASS
		The lesser of 250 mW or $11 \text{ dBm} + 10 \log (26 \text{ dB emission bandwidth})$	5250-5350 5470-5725	
15.407(a)(3)		1 watt	5725-5825	

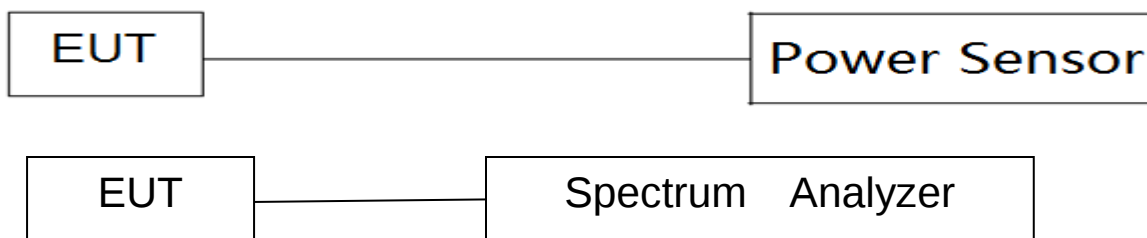
7.2 TEST PROCEDURE

The EUT was directly connected to the Power Sensor & PC

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 5 Unless otherwise a special operating condition is specified in the follows during the testing.

**7.6 TEST RESULTS****Band I (5.15-5.25GHz)**

Band I (5.15-5.25GHz)					
Test Channel	Frequency (MHz)	AV Power A(dBm)	AV Power B(dBm)	AV Power Total(dBm)	LIMIT (dBm)
802.11a					
36	5180	8.26	2.27	--	23.98
40	5200	8.51	2.36	--	23.98
48	5240	8.74	2.56	--	23.98
802.11n(HT20)					
36	5180	8.19	2.20	9.17	23.98
40	5200	8.42	2.27	9.36	23.98
48	5240	8.59	2.46	9.54	23.98
802.11n(HT40)					
38	5190	8.24	2.19	9.20	23.98
46	5230	8.35	2.21	9.30	23.98
802.11ac(HT20)					
36	5180	8.16	2.17	9.14	23.98
40	5200	8.41	2.26	9.35	23.98
48	5240	8.62	2.44	9.56	23.98
802.11ac(HT40)					
38	5190	8.16	2.21	9.14	23.98
46	5230	8.51	2.50	9.48	23.98
802.11ac(HT80)					
42	5210	7.87	1.36	8.75	23.98

Band II(5.25-5.35GHz)					
Test Channel	Frequency (MHz)	AV Power A(dBm)	AV Power B(dBm)	AV Power Total(dBm)	LIMIT (dBm)
802.11a					
52	5260	8.80	2.76	--	23.21
60	5300	9.03	3.18	--	23.21
64	5320	9.01	3.51	--	23.21
802.11n(HT20)					
52	5260	8.72	2.65	9.68	23.50
60	5300	8.94	3.12	9.95	23.50
64	5320	9.04	3.39	10.09	23.50
802.11n(HT40)					
54	5270	8.65	2.72	9.64	23.98
62	5310	8.89	3.25	9.94	23.98
802.11ac(HT20)					
52	5260	7.75	2.67	8.92	23.49
60	5300	8.93	3.10	9.94	23.49
64	5320	8.94	3.41	10.01	23.49
802.11ac(HT40)					
54	5270	8.66	2.72	9.65	23.98
62	5310	8.85	3.15	9.89	23.98
802.11ac(HT80)					
58	5290	8.32	3.26	9.50	23.98

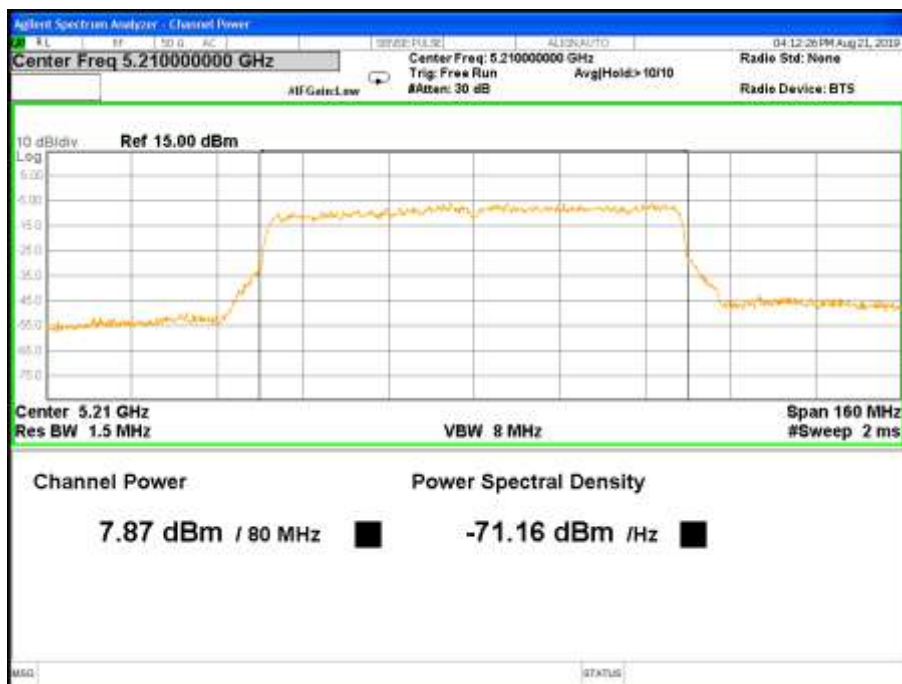


Band9 III(5.47-5.725GHz)					
Test Channel	Frequency (MHz)	AV Power A(dBm)	AV Power B(dBm)	AV Power Total(dBm)	LIMIT (dBm)
802.11a					
100	5500	9.29	4.27	--	23.21
116	5580	8.41	3.61	--	23.21
140	5700	5.41	1.32	--	23.21
802.11n(HT20)					
100	5500	8.99	4.19	10.23	23.49
116	5580	8.13	3.51	9.42	23.49
140	5700	5.11	1.23	6.60	23.49
802.11n(HT40)					
102	5510	8.61	3.20	9.71	23.98
110	5550	8.16	3.73	9.50	23.98
134	5670	5.76	1.14	7.05	23.98
802.11ac(HT20)					
100	5500	8.83	4.18	10.11	23.51
116	5580	7.99	3.50	9.31	23.51
140	5700	5.09	1.21	6.58	23.51
802.11ac(HT40)					
102	5510	8.60	4.74	10.10	23.98
110	5550	8.18	3.73	9.51	23.98
134	5670	5.80	1.15	7.08	23.98
802.11ac(HT80)					
106	5530	6.89	1.98	8.11	23.98
122	5610	4.41	-0.06	5.74	23.98

Band IV (5.725-5.85GHz)					
Test Channel	Frequency (MHz)	AV Power A(dBm)	AV Power B(dBm)	AV Power Total(dBm)	LIMIT (dBm)
802.11a					
149	5745	4.52	0.14	--	30
157	5785	4.43	-0.30	--	30
165	5825	4.36	-1.60	--	30
802.11n(HT20)					
149	5745	4.43	0.05	5.781	30
157	5785	4.32	-0.80	5.485	30
165	5825	4.24	-1.74	5.217	30
802.11n(HT40)					
151	5755	4.70	-0.22	5.913	30
159	5795	4.65	-1.07	5.681	30
802.11ac(HT20)					
149	5745	4.46	0.06	5.805	30
157	5785	4.33	-0.86	5.478	30
165	5825	4.19	-1.72	5.181	30
802.11ac(HT40)					
151	5755	4.55	-0.23	5.797	30
159	5795	4.47	-1.06	5.542	30
802.11ac(HT80)					
155	5775	3.14	0.63	5.074	30



802.11ac HT80(5210MHz)



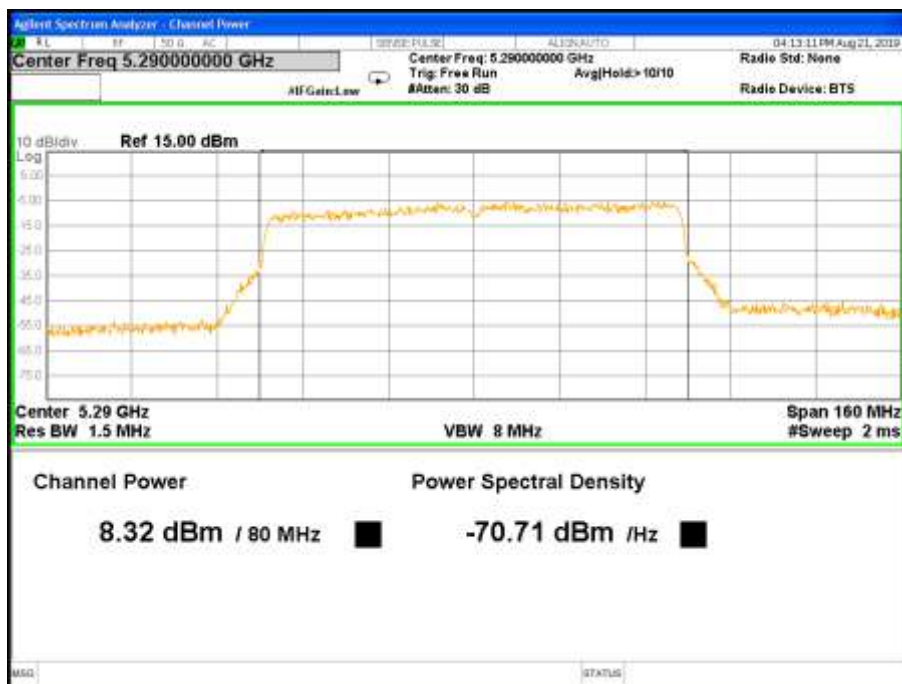
Band IV (5.725-5.85GHz)

Note:

1. For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 0.25 W.



802.11ac HT80(5290MHz)

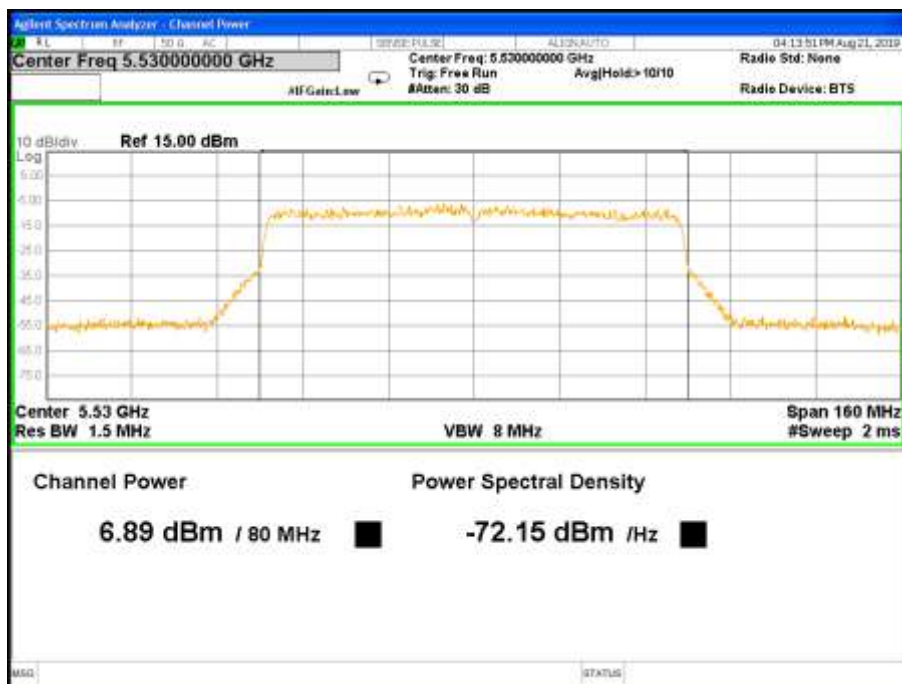


Note:

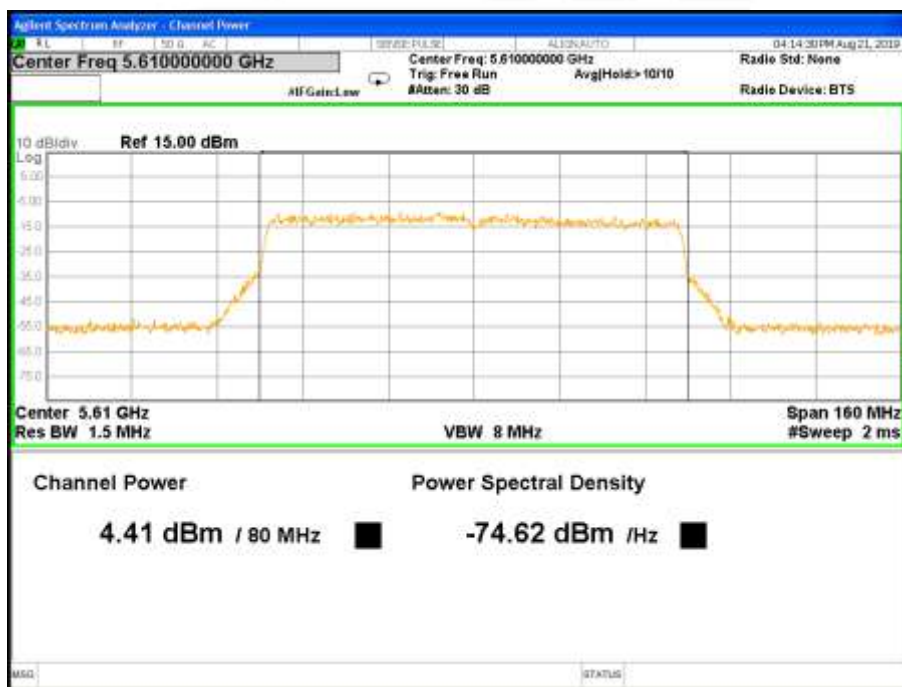
1. For mobile and portable client devices in the 5.25-5.35 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 0.25 W.



802.11ac HT80(5530MHz)



802.11ac HT80(5610MHz)

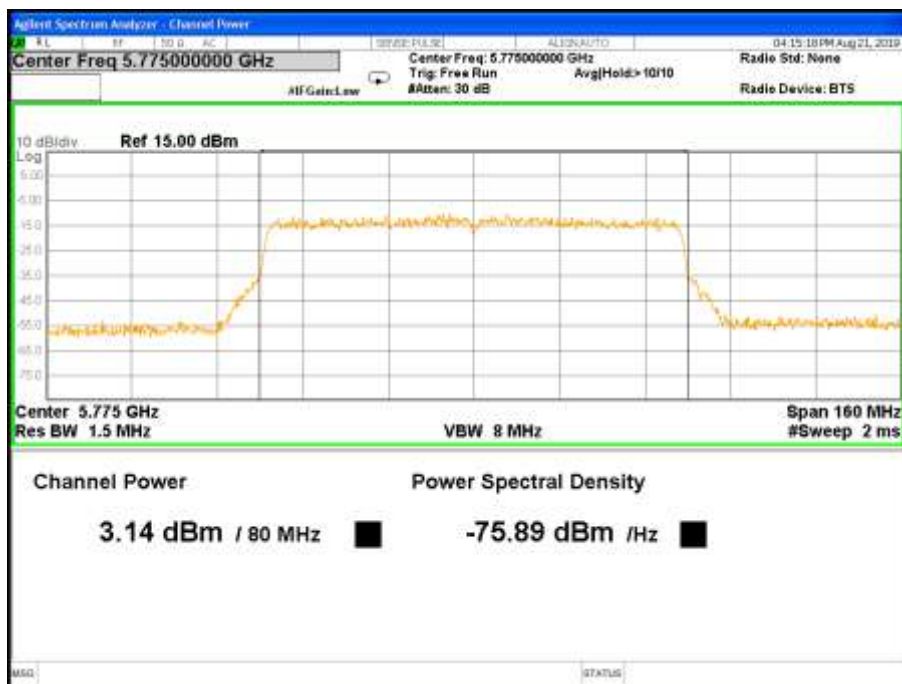


Note:

1. For mobile and portable client devices in the 5.47-5.725 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 0.25 W.



802.11ac HT80(5775MHz)



Note:

1. For the band 5.745-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1 W.



8. Automatically Discontinue Transmission

8.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

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 RESULT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

During no any information transmission, 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 STANDARD REQUIREMENT

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. It complies with the standard requirement.





APPENDIX- PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※END OF THE REPORT※※※※

