

Radio Test Report

Report No.: STS2407338W10

Issued for

Shanghai UniOne Science&Technology CO., Ltd.

Building 4, No. 651 Wanfang Road, Pujiang Town, Minhang District, Shanghai, China.

Product Name: Rugged Windows Tablet

Brand Name: N/A

Model Name: GTW8103(Standard)

Series Model(s): GTW8103(Handle), GTW8103(RJ45A),
GTW8103(RJ45AH)

FCC ID: 2A96I-GTW8103

Test Standard: FCC Part 15.407

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**TEST REPORT**

Applicant's Name Shanghai UniOne Science&Technology CO., Ltd.
Address..... Building 4,No.651 Wanfang Road, Pujiang Town, Minhang District, Shanghai, China.

Manufacturer's Name Shanghai UniOne Science&Technology CO., Ltd.
Address..... Building 4,No.651 Wanfang Road, Pujiang Town, Minhang District, Shanghai, China.

Product Description

Product Name Rugged Windows Tablet
Brand Name..... N/A
Model Name..... GTW8103(Standard)
Series Model(s) GTW8103(Handle), GTW8103(RJ45A), GTW8103(RJ45AH)

Test Standards FCC Part15.407

Test Procedure ANSI C63.10-2020

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.

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

Date of Test

Date of receipt of test item 31 July 2024
Date (s) of performance of tests 31 July 2024~27 Aug. 2024
Date of Issue 27 Aug. 2024
Test Result..... **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

Chris Chen

(Chris Chen)

Authorized Signatory :

Bovey Yang

(Bovey Yang)



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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	27 Aug. 2024	STS2407338W10	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

§ 15.407, KDB 789033 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 (a) /15.407 (e)	26dB/6dB &99% Bandwidth	PASS
15.407(a)	Maximum Conducted Output Power	PASS
15.407(b)/15.205/15.209	Radiated Emission And (bandedge Emissions) Measurement	PASS
15.407(a)	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 C63.10-2020.



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

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	$\pm 0.755\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.874\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 3.80\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.18\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 4.90\text{dB}$
6	All emissions, radiated >6G	$\pm 5.24\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.19\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.53\text{dB}$
9	Occupied Channel Bandwidth	$\pm 3.5\%$
10	Power Spectral Density, conducted	$\pm 1.245\text{dB}$
11	Duty Cycle	$\pm 3.2\%$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Rugged Windows Tablet	
Brand Name	N/A	
Model Name	GTW8103(Standard)	
Series Model(s)	GTW8103(Handle), GTW8103(RJ45A), GTW8103(RJ45AH)	
Model Difference	GTW8103(Standard) Only the host; GTW8103(Handle) Host with handle; GTW8103(RJ45A) Host with RJ45+USB 2 in 1 module; GTW8103(RJ45AH) Host with handle and RJ45+USB 2 in 1 module.	
Product Description	The EUT is a Rugged Windows Tablet	
	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): 5.745GHz-5.825GHz IEEE 802.11n(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:
	Max.Output Power(Conducted):	16.07dBm
	More details of EUT technical specification, please refer to the User Manual.	
Test Channel	Please refer to the Note 2.	
Rating	Input: DC 19V 3.42A	
Battery	Model: BA6000 Rated Voltage:11.01V Charge Limit Voltage: 12.6V Capacity: 6000mAh	
	Model: BA880 Rated Voltage:7.4V Charge Limit Voltage: 8.4V Capacity: 880mAh	
Hardware version number	E7255_MB_PCB_V20	
Software version number	R.NB.00.00.02	
Connecting I/O Port(s)	Please refer to the Note 1.	

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User 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 G_{ANT} 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 = $G_{ANT} + 10 \log(NANT)$ dBi

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

Directional gain = G_{ANT}

Ant	Brand	Model Name	Ant Type	Connector	Gain (dBi)	NOTE
A	N/A	GTW8103(Standard)	FPC	N/A	ANT1 :3.45 ANT2 :3.45	WLAN Ant

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.

2.2 DESCRIPTION OF TEST MODES

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.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11a CH36&CH40&CH48	6 Mbps
Mode 2	TX IEEE 802.11a 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 802.11ac VHT20 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 802.11ac VHT80 CH42	NSS1 MCS0
Mode 12	TX IEEE 802.11ac VHT80 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 be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.

(4) The battery is fully-charged during the radited and RF conducted test.

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 13: Keeping TX + WLAN Link

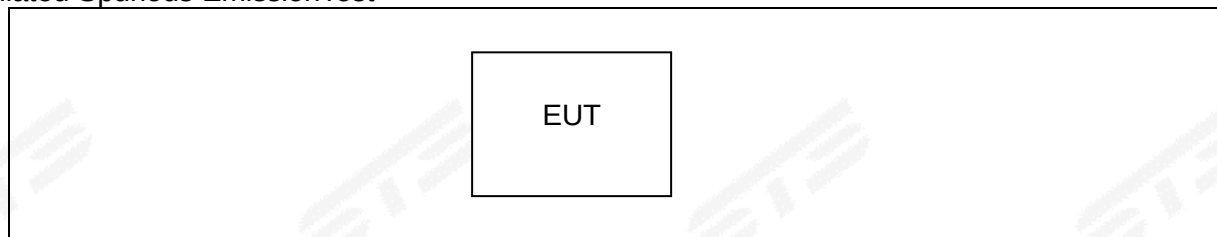
2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

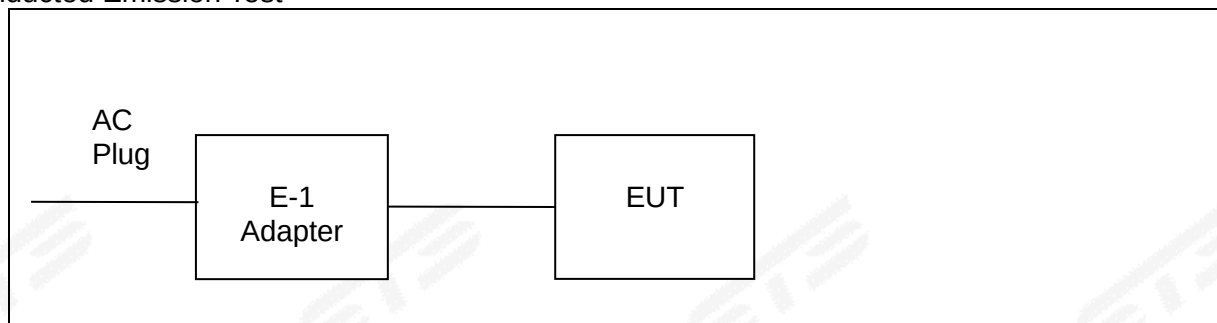
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power Class	ANT_2 Power Class	Software For Testing
WIFI(5G)	U-NII-1 (5150MHz-5250MHz)	802.11a	ANT1 :3.45 ANT2 :3.45	15	15	DRTU
		802.11n(HT20)		15	15	
		802.11n(HT40)		13.75	13.75	
		802.11ac(VHT20)		15	15	
		802.11ac(VHT40)		13.75	13.75	
		802.11ac(VHT80)		13.75	13.75	
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power Class	ANT_2 Power Class	Software For Testing
WIFI(5G)	U-NII-3 (5725MHz-5895MHz)	802.11a	ANT1 :3.45 ANT2 :3.45	15	16	DRTU
		802.11n(HT20)		14.75	14.75	
		802.11n(HT40)		14.75	14.75	
		802.11ac(VHT20)		14.75	14.75	
		802.11ac(VHT40)		14.75	14.75	
		802.11ac(VHT80)		14.75	14.75	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious EmissionTest



Conducted Emission Test



2.5 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.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-1	Adapter	DEL TA	ADP-65KE B	N/A	N/A

Note:

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

**2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS**

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2024.02.23	2025.02.22
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2023.09.26	2024.09.25
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2024.02.23	2025.02.22
Active loop Antenna	ZHINAN	ZN30900C	16035	2023.02.28	2025.02.27
Bilog Antenna	TESEQ	CBL6111D	34678	2022.09.30	2024.09.29
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2023.09.24	2025.09.23
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2023.10.10	2025.10.09
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2023.09.26	2024.09.25
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENGFENG	DPS-305AF	17064939	2023.09.26	2024.09.25
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			
Conduction Test equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2023.09.25	2024.09.24
Limtter	CYBERTEK	EM5010	N/A	2023.09.25	2024.09.24
LISN	R&S	ENV216	101242	2023.09.25	2024.09.24
LISN	EMCO	3810/2NM	23625	2023.09.25	2024.09.24
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Test SW	EZ-EMC	Ver.STSLAB-03A1 CE			
RF Connected Test					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2024.02.23	2025.02.22
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Test SW	MW	MTS 8310_2.0.0.0			

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

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

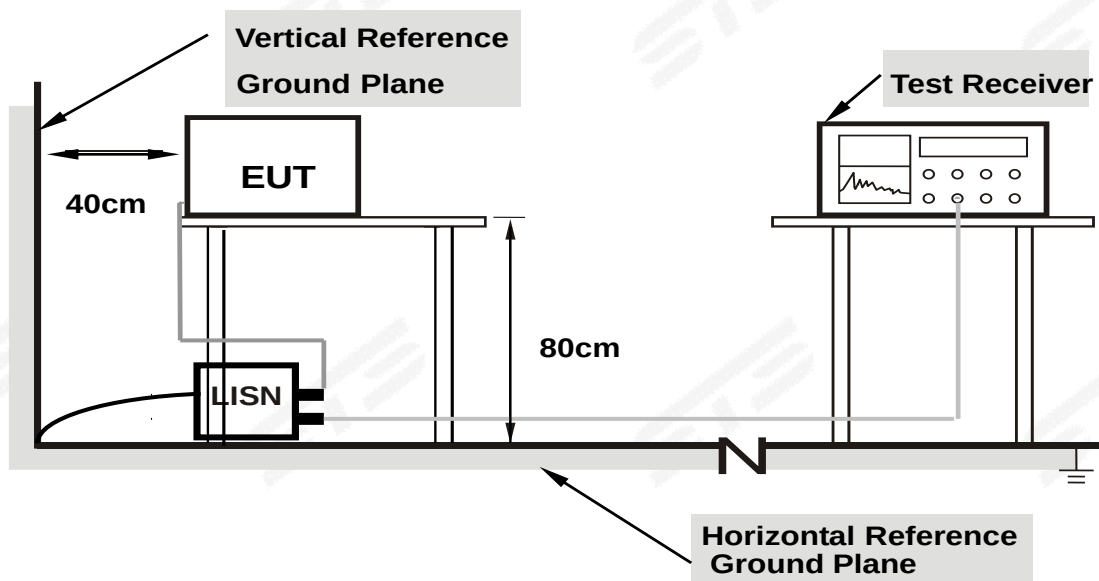
3.1.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 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 is at least 80 cm from the 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 support units.

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.

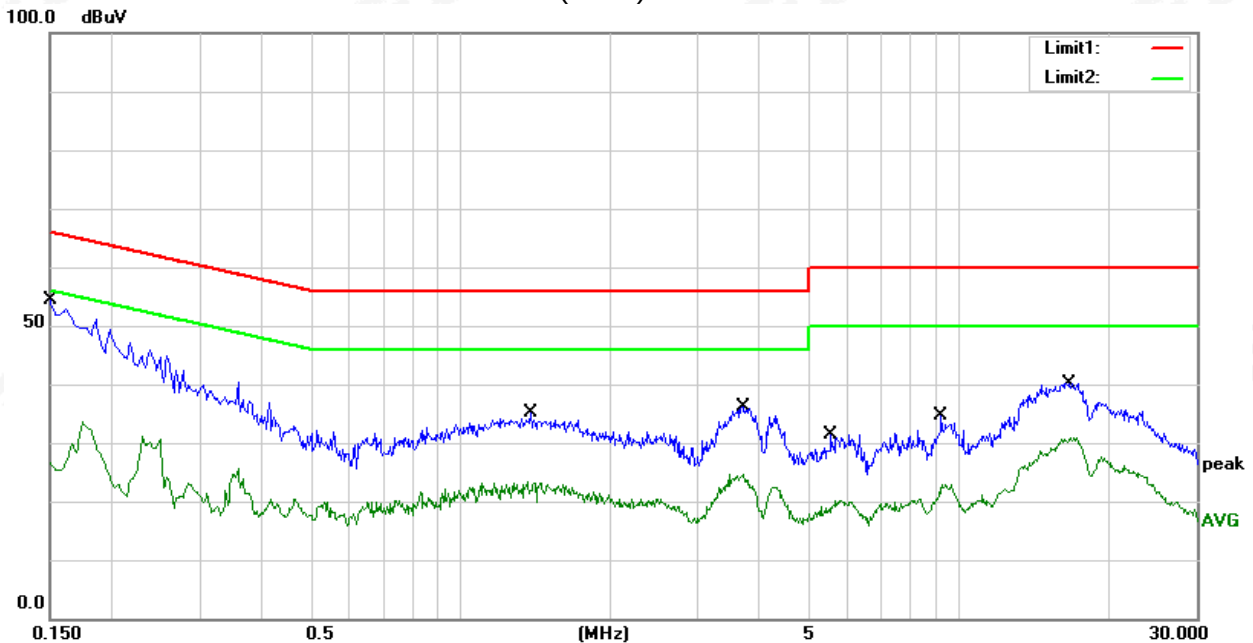
3.1.6 TEST RESULTS

Temperature:	25.1(C)	Relative Humidity:	59%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	0.1500	34.50	19.78	54.28	66.00	-11.72	QP
2	0.1500	13.84	19.78	33.62	56.00	-22.38	AVG
3	1.3820	15.33	19.78	35.11	56.00	-20.89	QP
4	1.3820	3.50	19.78	23.28	46.00	-22.72	AVG
5	3.6940	16.34	19.83	36.17	56.00	-19.83	QP
6	3.6940	4.81	19.83	24.64	46.00	-21.36	AVG
7	5.5380	11.69	19.81	31.50	60.00	-28.50	QP
8	5.5380	0.30	19.81	20.11	50.00	-29.89	AVG
9	9.2460	14.37	20.17	34.54	60.00	-25.46	QP
10	9.2460	2.70	20.17	22.87	50.00	-27.13	AVG
11	16.6180	19.73	20.43	40.16	60.00	-19.84	QP
12	16.6180	10.44	20.43	30.87	50.00	-19.13	AVG

Remark:

1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result =Reading + Factor)–Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)



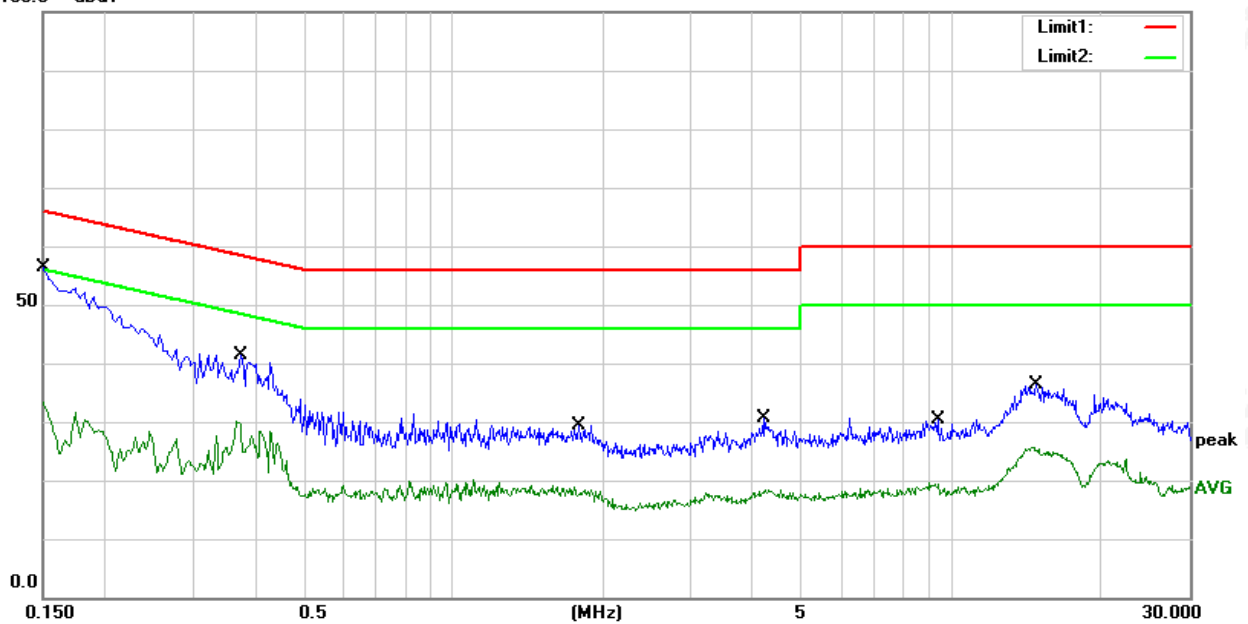
Temperature:	25.1(C)	Relative Humidity:	59%RH
Test Voltage	AC 120V/60Hz	Phase:	N
Test Mode	Mode 13		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1580	35.99	19.78	55.77	65.57	-9.80	QP
2	0.1580	14.58	19.78	34.36	55.57	-21.21	AVG
3	2.0420	13.38	19.79	33.17	56.00	-22.83	QP
4	2.0420	2.27	19.79	22.06	46.00	-23.94	AVG
5	3.4980	15.10	19.84	34.94	56.00	-21.06	QP
6	3.4980	3.02	19.84	22.86	46.00	-23.14	AVG
7	4.2420	14.73	19.83	34.56	56.00	-21.44	QP
8	4.2420	3.25	19.83	23.08	46.00	-22.92	AVG
9	5.5180	11.78	19.81	31.59	60.00	-28.41	QP
10	5.5180	0.33	19.81	20.14	50.00	-29.86	AVG
11	17.4700	22.66	20.45	43.11	60.00	-16.89	QP
12	17.4700	13.33	20.45	33.78	50.00	-16.22	AVG

Remark:

1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result =Reading + Factor)–Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)

100.0 dBuV



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 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).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

Note: In case the emission radiated emission above 1000MHz fall within the restricted band the restricted frequency bands, the peak limit is 74 dBuV/m.

LIMITS OF EMISSIONS OUTSIDE OF THE FREQUENCY BANDS

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.

Note: dBuV/m(at 3M) = EIRP(dBm) + 95.2.

Peak Limit = -27dBm/MHz + 95.2 = 68.2 dBuV/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)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

For Band edge

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

- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. 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 polarization 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 QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

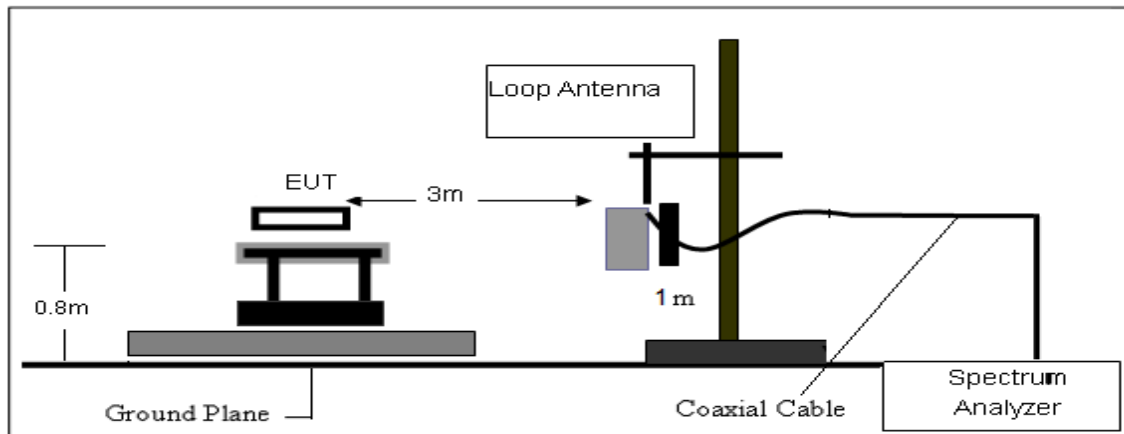
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.2 DEVIATION FROM TEST STANDARD

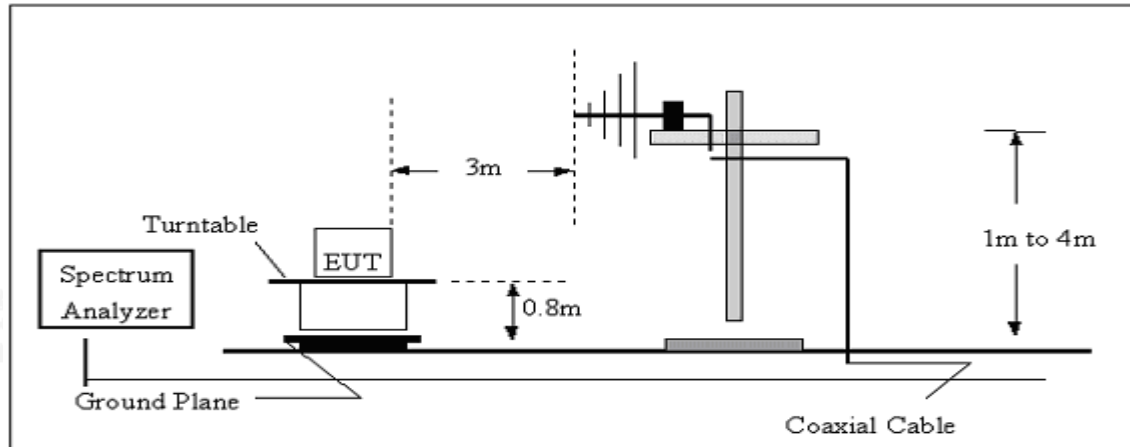
No deviation

3.2.3 TEST SETUP

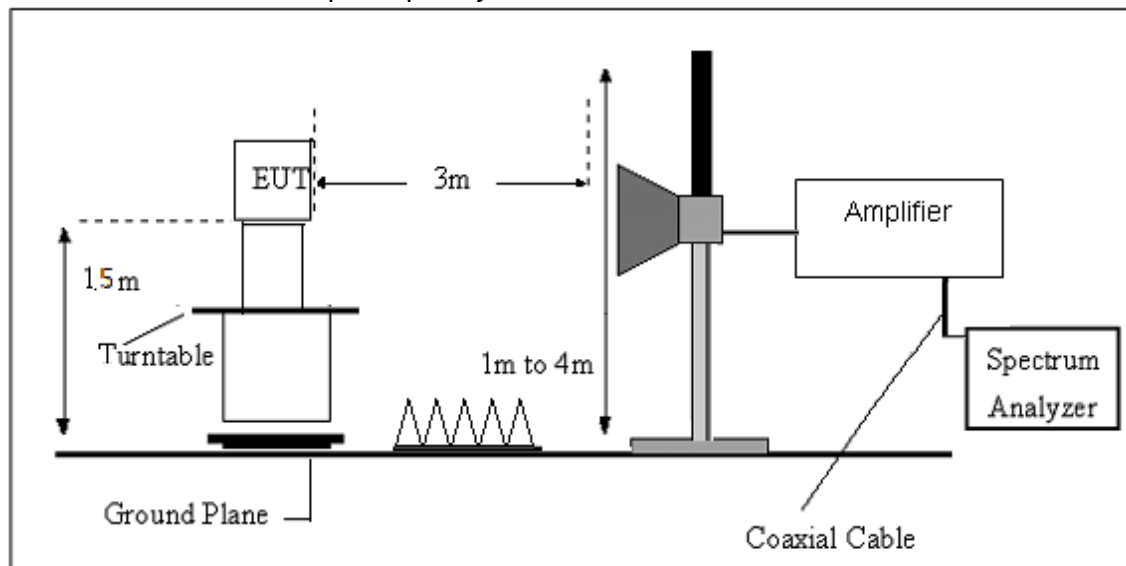
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



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:	23.4(C)	Relative Humidity:	60%RH
Test Voltage:	DC 11.01V	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)

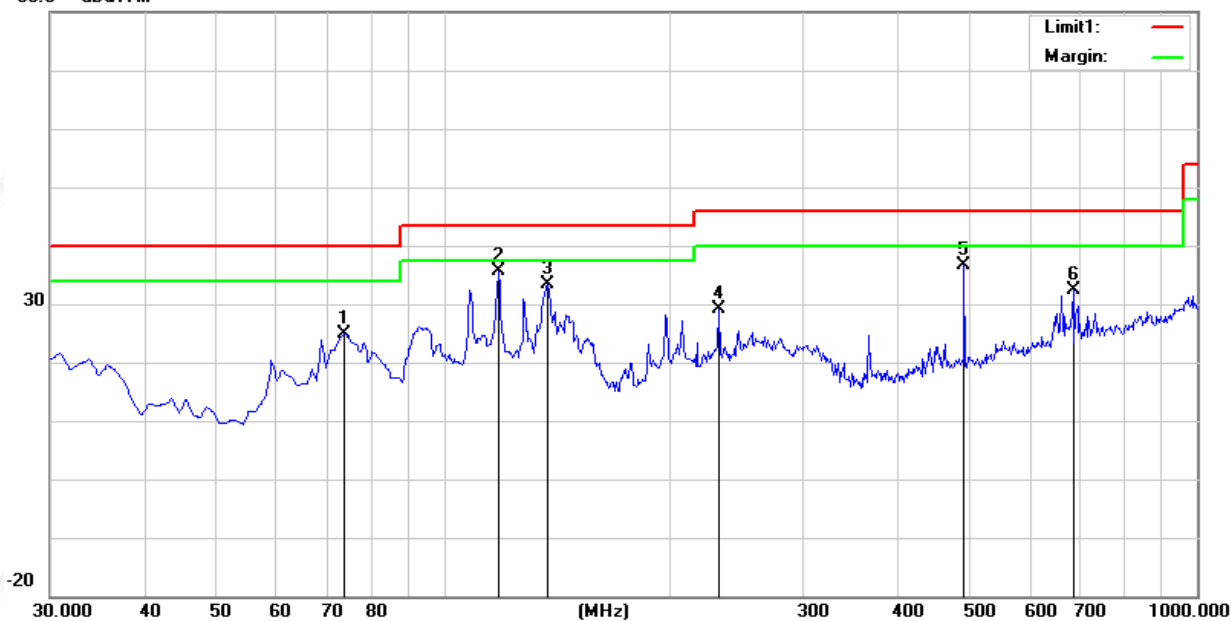
Temperature	23.4(C)	Relative Humidity:	60%RH
Test Voltage	DC 11.01V	Polarization :	Horizontal
Test Mode	Mode 1~12(Mode 9 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	73.6500	49.12	-24.20	24.92	40.00	-15.08	peak
2	118.2700	54.03	-18.43	35.60	43.50	-7.90	peak
3	137.6700	51.32	-18.06	33.26	43.50	-10.24	peak
4	231.7600	47.98	-18.97	29.01	46.00	-16.99	peak
5	490.7500	44.78	-8.20	36.58	46.00	-9.42	peak
6	684.7500	36.71	-4.31	32.40	46.00	-13.60	peak

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

80.0 dBuV/m

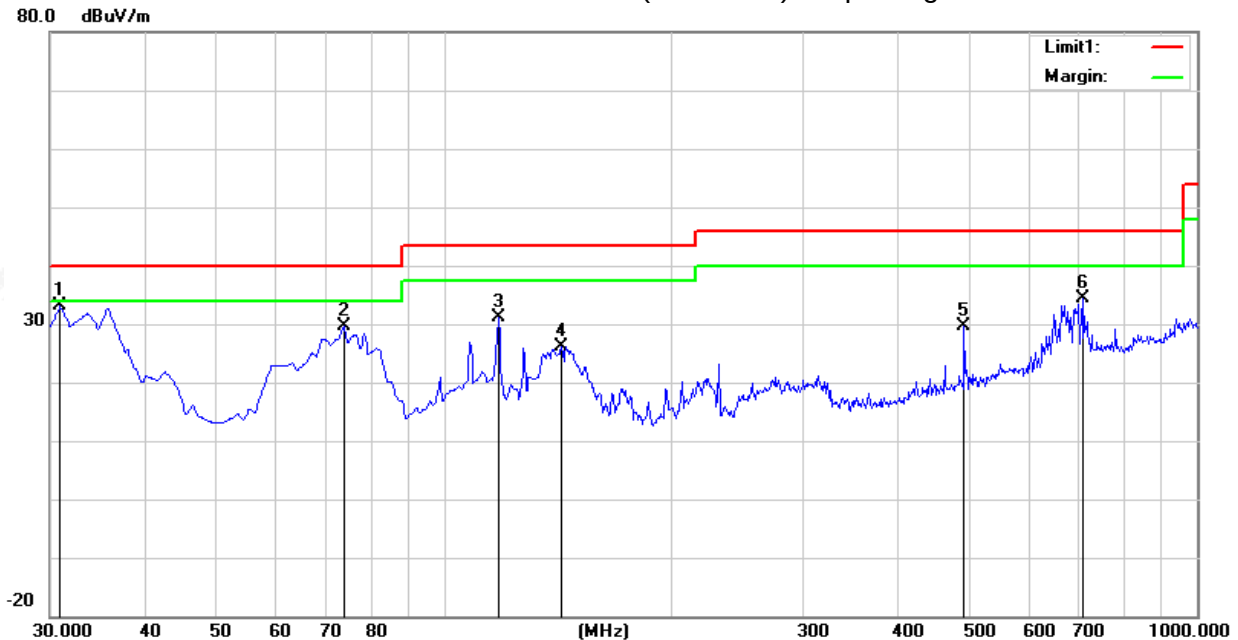


Temperature	23.4(C)	Relative Humidity:	60%RH
Test Voltage	DC 11.01V	Polarization:	Vertical
Test Mode	Mode 1~12(Mode 9 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.9700	46.39	-13.35	33.04	40.00	-6.96	peak
2	73.6500	53.86	-24.20	29.66	40.00	-10.34	peak
3	118.2700	49.57	-18.43	31.14	43.50	-12.36	peak
4	143.4900	44.31	-18.23	26.08	43.50	-17.42	peak
5	490.7500	37.85	-8.20	29.65	46.00	-16.35	peak
6	708.0300	38.21	-3.92	34.29	46.00	-11.71	peak

Remark:

1. Margin = Result (Result =Reading + Factor)-Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain





3.2.8 TEST RESULTS (Above 1000 MHz)

U-NII-1 5150-5250MHz

U-NII 1										
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)										
3261.60	45.10	44.70	6.70	28.20	-9.80	35.30	74.00	-38.70	Pk	Vertical
3261.60	40.77	44.70	6.70	28.20	-9.80	30.97	54.00	-23.03	AV	Vertical
3256.71	44.36	44.70	6.70	28.20	-9.80	34.56	68.20	-33.64	Pk	Horizontal
3256.71	41.60	44.70	6.70	28.20	-9.80	31.80	54.00	-22.20	AV	Horizontal
3984.37	38.93	44.20	7.90	29.70	-6.60	32.33	74.00	-41.67	Pk	Vertical
3984.37	36.18	44.20	7.90	29.70	-6.60	29.58	54.00	-24.42	AV	Vertical
3981.86	40.10	44.20	7.90	29.70	-6.60	33.50	74.00	-40.50	Pk	Horizontal
3981.86	37.02	44.20	7.90	29.70	-6.60	30.42	54.00	-23.58	AV	Horizontal
7226.87	37.03	43.50	11.40	35.50	3.40	40.43	68.20	-27.77	Pk	Vertical
7226.87	33.47	43.50	11.40	35.50	3.40	36.87	54.00	-17.13	AV	Vertical
7225.88	37.31	43.50	11.40	35.50	3.40	40.71	68.20	-27.49	Pk	Horizontal
7225.88	34.25	43.50	11.40	35.50	3.40	37.65	54.00	-16.35	AV	Horizontal
10360.06	39.63	44.50	13.80	38.80	8.10	47.73	68.20	-20.47	Pk	Vertical
10360.06	36.54	44.50	13.80	38.80	8.10	44.64	54.00	-9.36	AV	Vertical
10360.17	38.89	44.50	13.80	38.80	8.10	46.99	68.20	-21.21	Pk	Horizontal
10360.17	36.32	44.50	13.80	38.80	8.10	44.42	54.00	-9.58	AV	Horizontal
11021.87	34.08	43.60	14.30	39.50	10.20	44.28	74.00	-29.72	Pk	Vertical
11021.87	31.05	43.60	14.30	39.50	10.20	41.25	54.00	-12.75	AV	Vertical
11027.37	32.93	43.60	14.30	39.50	10.20	43.13	74.00	-30.87	Pk	Horizontal
11027.37	30.79	43.60	14.30	39.50	10.20	40.99	54.00	-13.01	AV	Horizontal
13287.42	32.50	42.60	15.90	38.90	12.20	44.70	74.00	-29.30	Pk	Vertical
13287.42	29.62	42.60	15.90	38.90	12.20	41.82	54.00	-12.18	AV	Vertical
13290.22	32.50	42.60	15.90	38.90	12.20	44.70	74.00	-29.30	Pk	Horizontal
13290.22	29.86	42.60	15.90	38.90	12.20	42.06	54.00	-11.94	AV	Horizontal
Mid Channel (802.11N20/ 5200 MHz)										
3255.40	44.00	44.70	6.70	28.20	-9.80	34.20	68.20	-34.00	Pk	Vertical
3255.40	41.93	44.70	6.70	28.20	-9.80	32.13	54.00	-21.87	AV	Vertical
3252.66	45.21	44.70	6.70	28.20	-9.80	35.41	68.20	-32.79	Pk	Horizontal
3252.66	41.97	44.70	6.70	28.20	-9.80	32.17	54.00	-21.83	AV	Horizontal
4000.24	39.73	44.20	7.90	29.70	-6.60	33.13	74.00	-40.87	Pk	Vertical
4000.24	36.57	44.20	7.90	29.70	-6.60	29.97	54.00	-24.03	AV	Vertical
3980.34	39.76	44.20	7.90	29.70	-6.60	33.16	74.00	-40.84	Pk	Horizontal
3980.34	36.43	44.20	7.90	29.70	-6.60	29.83	54.00	-24.17	AV	Horizontal
7232.33	37.64	43.50	11.40	35.50	3.40	41.04	68.20	-27.16	Pk	Vertical
7232.33	34.26	43.50	11.40	35.50	3.40	37.66	54.00	-16.34	AV	Vertical
7233.01	36.81	43.50	11.40	35.50	3.40	40.21	68.20	-27.99	Pk	Horizontal
7233.01	34.30	43.50	11.40	35.50	3.40	37.70	54.00	-16.30	AV	Horizontal
10400.22	38.92	44.50	13.80	38.80	8.10	47.02	68.20	-21.18	Pk	Vertical
10400.22	36.95	44.50	13.80	38.80	8.10	45.05	54.00	-8.95	AV	Vertical
10400.38	39.45	44.50	13.80	38.80	8.10	47.55	68.20	-20.65	Pk	Horizontal
10400.38	36.95	44.50	13.80	38.80	8.10	45.05	54.00	-8.95	AV	Horizontal
11029.25	34.13	43.60	14.30	39.50	10.20	44.33	74.00	-29.67	Pk	Vertical
11029.25	30.57	43.60	14.30	39.50	10.20	40.77	54.00	-13.23	AV	Vertical
11034.02	33.77	43.60	14.30	39.50	10.20	43.97	74.00	-30.03	Pk	Horizontal
11034.02	29.93	43.60	14.30	39.50	10.20	40.13	54.00	-13.87	AV	Horizontal
13287.86	31.56	42.60	15.90	38.90	12.20	43.76	74.00	-30.24	Pk	Vertical
13287.86	28.98	42.60	15.90	38.90	12.20	41.18	54.00	-12.82	AV	Vertical
13297.50	32.29	42.60	15.90	38.90	12.20	44.49	74.00	-29.51	Pk	Horizontal
13297.50	29.65	42.60	15.90	38.90	12.20	41.85	54.00	-12.15	AV	Horizontal



High Channel (802.11N20/ 5240 MHz)										
3245.50	44.66	44.70	6.70	28.20	-9.80	34.86	68.20	-33.34	Pk	Vertical
3245.50	42.07	44.70	6.70	28.20	-9.80	32.27	54.00	-21.73	AV	Vertical
3245.51	44.21	44.70	6.70	28.20	-9.80	34.41	68.20	-33.79	Pk	Horizontal
3245.51	41.56	44.70	6.70	28.20	-9.80	31.76	54.00	-22.24	AV	Horizontal
3986.61	39.61	44.20	7.90	29.70	-6.60	33.01	74.00	-40.99	Pk	Vertical
3986.61	36.15	44.20	7.90	29.70	-6.60	29.55	54.00	-24.45	AV	Vertical
3980.37	39.61	44.20	7.90	29.70	-6.60	33.01	74.00	-40.99	Pk	Horizontal
3980.37	37.10	44.20	7.90	29.70	-6.60	30.50	54.00	-23.50	AV	Horizontal
7219.70	37.22	43.50	11.40	35.50	3.40	40.62	68.20	-27.58	Pk	Vertical
7219.70	33.68	43.50	11.40	35.50	3.40	37.08	54.00	-16.92	AV	Vertical
7234.83	36.75	43.50	11.40	35.50	3.40	40.15	68.20	-28.05	Pk	Horizontal
7234.83	33.96	43.50	11.40	35.50	3.40	37.36	54.00	-16.64	AV	Horizontal
10480.16	39.39	44.50	13.80	38.80	8.10	47.49	68.20	-20.71	Pk	Vertical
10480.16	35.71	44.50	13.80	38.80	8.10	43.81	54.00	-10.19	AV	Vertical
10480.31	38.72	44.50	13.80	38.80	8.10	46.82	68.20	-21.38	Pk	Horizontal
10480.31	36.80	44.50	13.80	38.80	8.10	44.90	54.00	-9.10	AV	Horizontal
11020.61	33.42	43.60	14.30	39.50	10.20	43.62	74.00	-30.38	Pk	Vertical
11020.61	31.11	43.60	14.30	39.50	10.20	41.31	54.00	-12.69	AV	Vertical
11021.33	32.78	43.60	14.30	39.50	10.20	42.98	74.00	-31.02	Pk	Horizontal
11021.33	30.06	43.60	14.30	39.50	10.20	40.26	54.00	-13.74	AV	Horizontal
13282.23	32.88	42.60	15.90	38.90	12.20	45.08	74.00	-28.92	Pk	Vertical
13282.23	29.55	42.60	15.90	38.90	12.20	41.75	54.00	-12.25	AV	Vertical
13294.99	32.98	42.60	15.90	38.90	12.20	45.18	74.00	-28.82	Pk	Horizontal
13294.99	29.99	42.60	15.90	38.90	12.20	42.19	54.00	-11.81	AV	Horizontal

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, only worst mode was reported.
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.



U-NII-3 (5.725-5.850) GHz

U-NII 3										
Frequency (MHz)	Reading (dBuV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
Low Channel (802.11ac20/ 5745 MHz)										
3260.52	43.91	44.70	6.70	28.20	-9.80	34.11	74.00	-39.89	Pk	Vertical
3260.52	42.12	44.70	6.70	28.20	-9.80	32.32	54.00	-21.68	AV	Vertical
3245.65	44.20	44.70	6.70	28.20	-9.80	34.40	68.20	-33.80	Pk	Horizontal
3245.65	41.59	44.70	6.70	28.20	-9.80	31.79	54.00	-22.21	AV	Horizontal
3994.36	40.01	44.20	7.90	29.70	-6.60	33.41	74.00	-40.59	Pk	Vertical
3994.36	35.94	44.20	7.90	29.70	-6.60	29.34	54.00	-24.66	AV	Vertical
3981.33	39.38	44.20	7.90	29.70	-6.60	32.78	74.00	-41.22	Pk	Horizontal
3981.33	36.44	44.20	7.90	29.70	-6.60	29.84	54.00	-24.16	AV	Horizontal
7234.83	37.44	43.50	11.40	35.50	3.40	40.84	68.20	-27.36	Pk	Vertical
7234.83	34.47	43.50	11.40	35.50	3.40	37.87	54.00	-16.13	AV	Vertical
7228.99	36.54	43.50	11.40	35.50	3.40	39.94	68.20	-28.26	Pk	Horizontal
7228.99	33.86	43.50	11.40	35.50	3.40	37.26	54.00	-16.74	AV	Horizontal
10359.99	40.11	44.50	13.80	38.80	8.10	48.21	68.20	-19.99	Pk	Vertical
10359.99	35.93	44.50	13.80	38.80	8.10	44.03	54.00	-9.97	AV	Vertical
10360.15	38.98	44.50	13.80	38.80	8.10	47.08	68.20	-21.12	Pk	Horizontal
10360.15	36.69	44.50	13.80	38.80	8.10	44.79	54.00	-9.21	AV	Horizontal
11028.53	33.51	43.60	14.30	39.50	10.20	43.71	74.00	-30.29	Pk	Vertical
11028.53	30.13	43.60	14.30	39.50	10.20	40.33	54.00	-13.67	AV	Vertical
11030.99	33.67	43.60	14.30	39.50	10.20	43.87	74.00	-30.13	Pk	Horizontal
11030.99	30.28	43.60	14.30	39.50	10.20	40.48	54.00	-13.52	AV	Horizontal
13288.27	32.51	42.60	15.90	38.90	12.20	44.71	74.00	-29.29	Pk	Vertical
13288.27	28.98	42.60	15.90	38.90	12.20	41.18	54.00	-12.82	AV	Vertical
13299.03	32.65	42.60	15.90	38.90	12.20	44.85	74.00	-29.15	Pk	Horizontal
13299.03	29.01	42.60	15.90	38.90	12.20	41.21	54.00	-12.79	AV	Horizontal
Mid Channel (802.11ac20/ 5785MHz)										
3250.86	43.84	44.70	6.70	28.20	-9.80	34.04	68.20	-34.16	Pk	Vertical
3250.86	40.87	44.70	6.70	28.20	-9.80	31.07	54.00	-22.93	AV	Vertical
3264.40	44.62	44.70	6.70	28.20	-9.80	34.82	74.00	-39.18	Pk	Horizontal
3264.40	40.78	44.70	6.70	28.20	-9.80	30.98	54.00	-23.02	AV	Horizontal
3988.44	39.34	44.20	7.90	29.70	-6.60	32.74	74.00	-41.26	Pk	Vertical
3988.44	35.75	44.20	7.90	29.70	-6.60	29.15	54.00	-24.85	AV	Vertical
3985.94	40.02	44.20	7.90	29.70	-6.60	33.42	74.00	-40.58	Pk	Horizontal
3985.94	36.37	44.20	7.90	29.70	-6.60	29.77	54.00	-24.23	AV	Horizontal
7233.84	36.67	43.50	11.40	35.50	3.40	40.07	68.20	-28.13	Pk	Vertical
7233.84	33.63	43.50	11.40	35.50	3.40	37.03	54.00	-16.97	AV	Vertical
7230.40	37.19	43.50	11.40	35.50	3.40	40.59	68.20	-27.61	Pk	Horizontal
7230.40	34.57	43.50	11.40	35.50	3.40	37.97	54.00	-16.03	AV	Horizontal
10400.22	38.93	44.50	13.80	38.80	8.10	47.03	68.20	-21.17	Pk	Vertical
10400.22	36.68	44.50	13.80	38.80	8.10	44.78	54.00	-9.22	AV	Vertical
10400.04	39.95	44.50	13.80	38.80	8.10	48.05	68.20	-20.15	Pk	Horizontal
10400.04	36.40	44.50	13.80	38.80	8.10	44.50	54.00	-9.50	AV	Horizontal
11031.70	34.08	43.60	14.30	39.50	10.20	44.28	74.00	-29.72	Pk	Vertical
11031.70	30.20	43.60	14.30	39.50	10.20	40.40	54.00	-13.60	AV	Vertical
11033.89	33.49	43.60	14.30	39.50	10.20	43.69	74.00	-30.31	Pk	Horizontal
11033.89	29.69	43.60	14.30	39.50	10.20	39.89	54.00	-14.11	AV	Horizontal
13282.23	32.16	42.60	15.90	38.90	12.20	44.36	74.00	-29.64	Pk	Vertical
13282.23	29.84	42.60	15.90	38.90	12.20	42.04	54.00	-11.96	AV	Vertical
13292.40	32.43	42.60	15.90	38.90	12.20	44.63	74.00	-29.37	Pk	Horizontal
13292.40	28.91	42.60	15.90	38.90	12.20	41.11	54.00	-12.89	AV	Horizontal

High Channel (802.11ac20/ 5825 MHz)										
3248.22	44.48	44.70	6.70	28.20	-9.80	34.68	68.20	-33.52	Pk	Vertical
3248.22	41.44	44.70	6.70	28.20	-9.80	31.64	54.00	-22.36	AV	Vertical
3246.61	43.76	44.70	6.70	28.20	-9.80	33.96	68.20	-34.24	Pk	Horizontal
3246.61	41.07	44.70	6.70	28.20	-9.80	31.27	54.00	-22.73	AV	Horizontal
3999.52	39.62	44.20	7.90	29.70	-6.60	33.02	74.00	-40.98	Pk	Vertical
3999.52	37.13	44.20	7.90	29.70	-6.60	30.53	54.00	-23.47	AV	Vertical
3982.74	39.95	44.20	7.90	29.70	-6.60	33.35	74.00	-40.65	Pk	Horizontal
3982.74	36.79	44.20	7.90	29.70	-6.60	30.19	54.00	-23.81	AV	Horizontal
7220.57	36.59	43.50	11.40	35.50	3.40	39.99	68.20	-28.21	Pk	Vertical
7220.57	34.80	43.50	11.40	35.50	3.40	38.20	54.00	-15.80	AV	Vertical
7218.69	36.72	43.50	11.40	35.50	3.40	40.12	68.20	-28.08	Pk	Horizontal
7218.69	34.92	43.50	11.40	35.50	3.40	38.32	54.00	-15.68	AV	Horizontal
10479.97	39.16	44.50	13.80	38.80	8.10	47.26	68.20	-20.94	Pk	Vertical
10479.97	35.82	44.50	13.80	38.80	8.10	43.92	54.00	-10.08	AV	Vertical
10480.13	40.18	44.50	13.80	38.80	8.10	48.28	68.20	-19.92	Pk	Horizontal
10480.13	36.39	44.50	13.80	38.80	8.10	44.49	54.00	-9.51	AV	Horizontal
11022.67	33.81	43.60	14.30	39.50	10.20	44.01	74.00	-29.99	Pk	Vertical
11022.67	30.86	43.60	14.30	39.50	10.20	41.06	54.00	-12.94	AV	Vertical
11033.58	33.26	43.60	14.30	39.50	10.20	43.46	74.00	-30.54	Pk	Horizontal
11033.58	30.11	43.60	14.30	39.50	10.20	40.31	54.00	-13.69	AV	Horizontal
13299.25	32.85	42.60	15.90	38.90	12.20	45.05	74.00	-28.95	Pk	Vertical
13299.25	29.25	42.60	15.90	38.90	12.20	41.45	54.00	-12.55	AV	Vertical
13296.10	31.64	42.60	15.90	38.90	12.20	43.84	74.00	-30.16	Pk	Horizontal
13296.10	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Horizontal

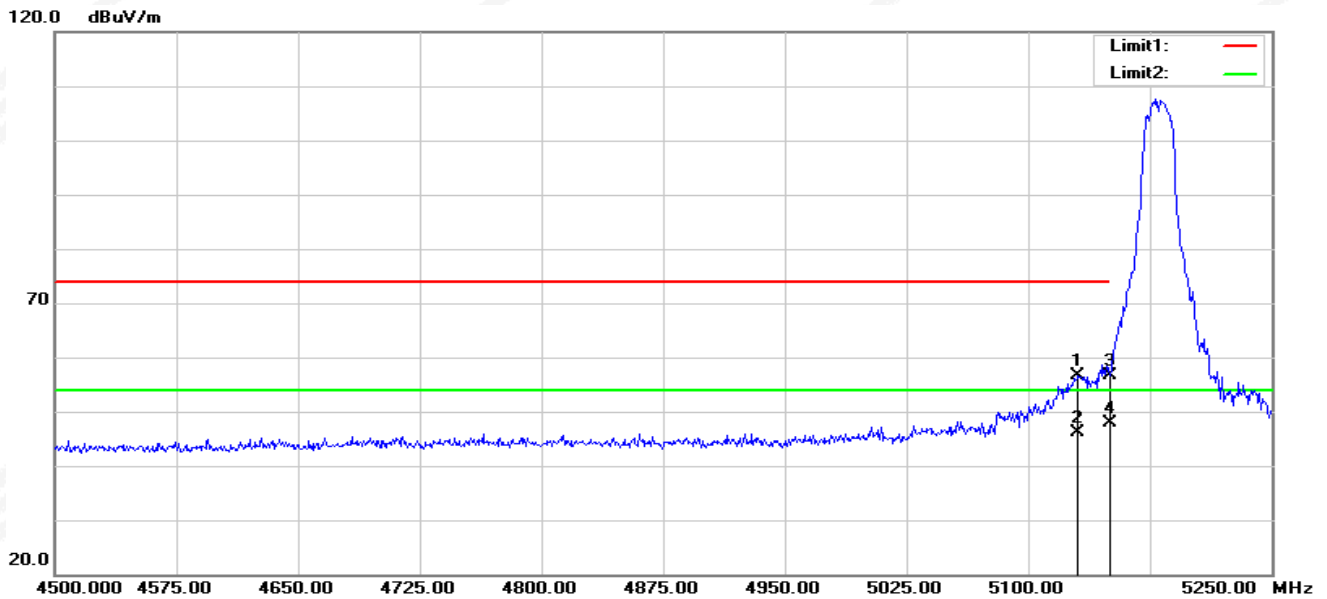
Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, only worst mode was reported.
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 RESTRICTED FREQUENCY BANDS AND BAND EDGE

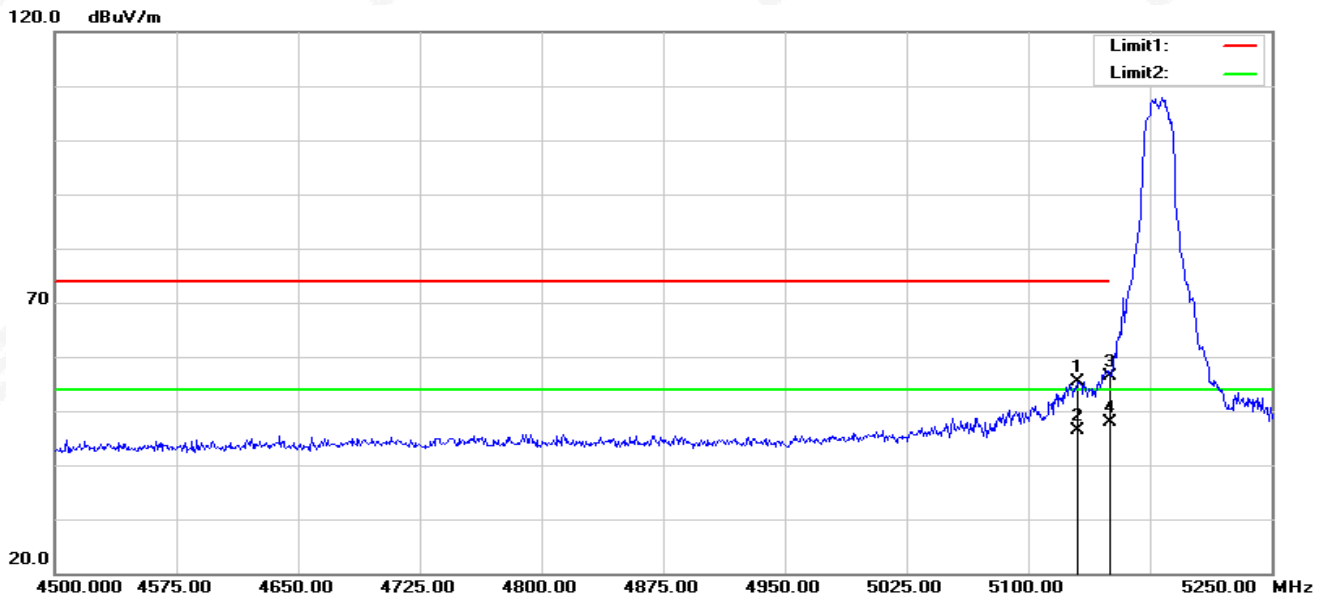
U-NII-1 5150-5250MHz

802.11n20-L-H



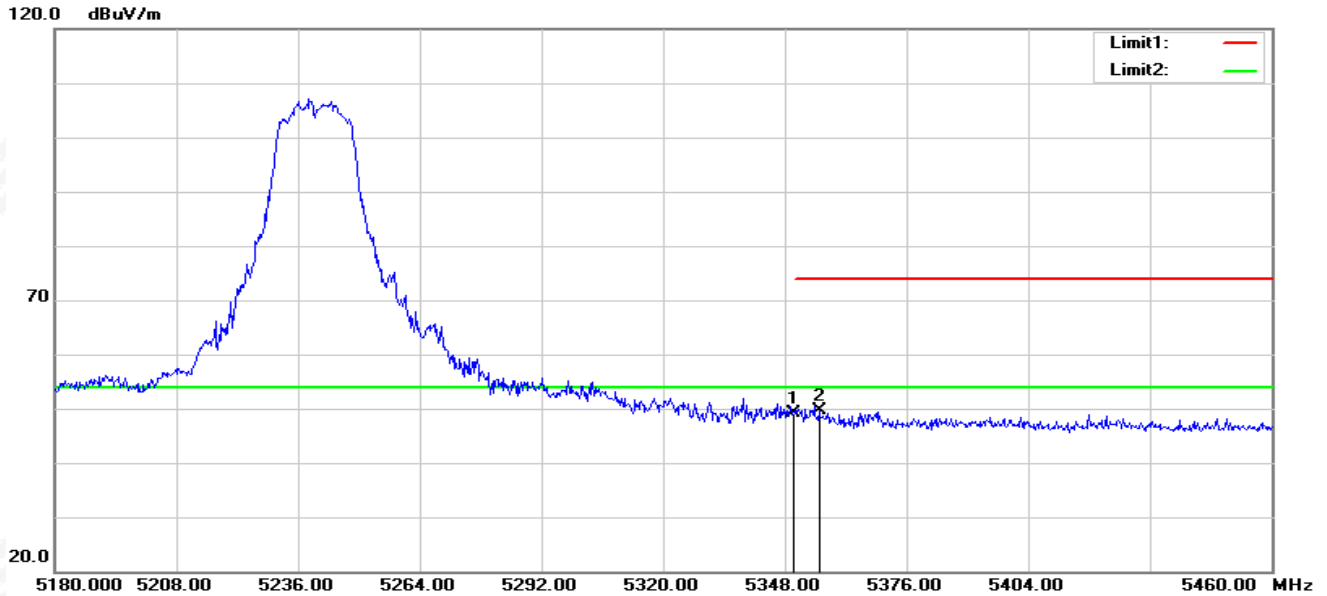
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5130.750	62.48	-5.74	56.74	74.00	-17.26	peak
2	5130.750	51.90	-5.74	46.16	54.00	-7.84	AVG
3	5150.000	62.32	-5.73	56.59	74.00	-17.41	peak
4	5150.000	53.68	-5.73	47.95	54.00	-6.05	AVG

802.11n20-L-V



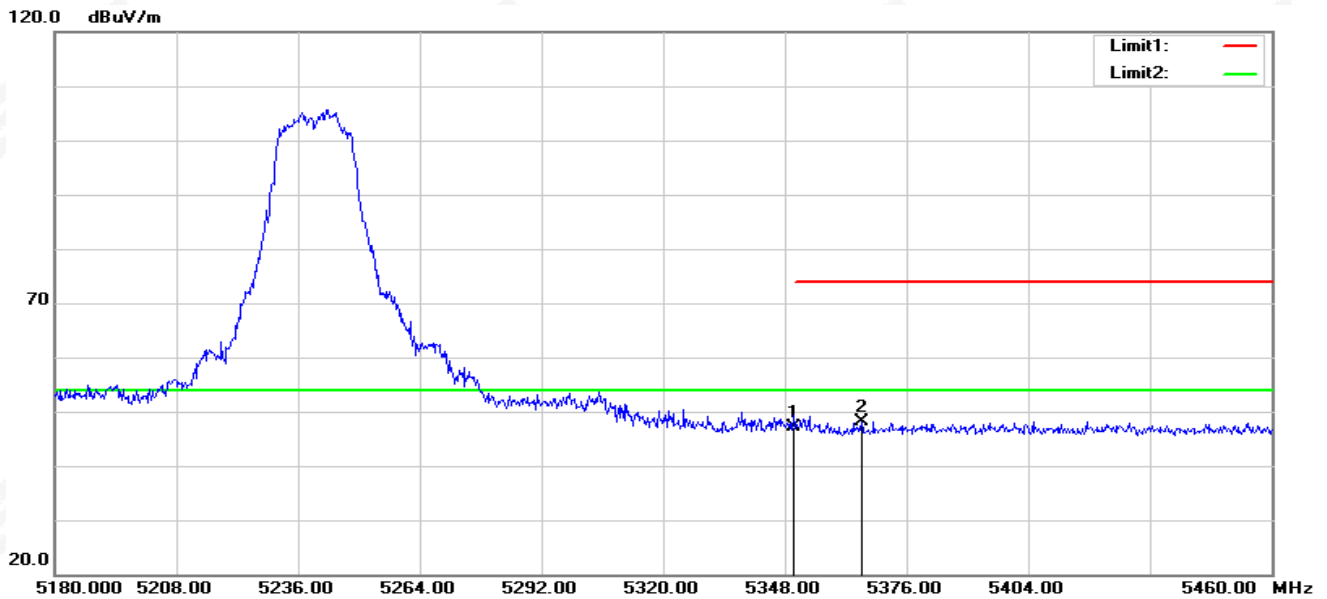
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5130.750	61.08	-5.74	55.34	74.00	-18.66	peak
2	5130.750	52.10	-5.74	46.36	54.00	-7.64	AVG
3	5150.000	62.13	-5.73	56.40	74.00	-17.60	peak
4	5150.000	53.63	-5.73	47.90	54.00	-6.10	AVG

802.11n20-H-H



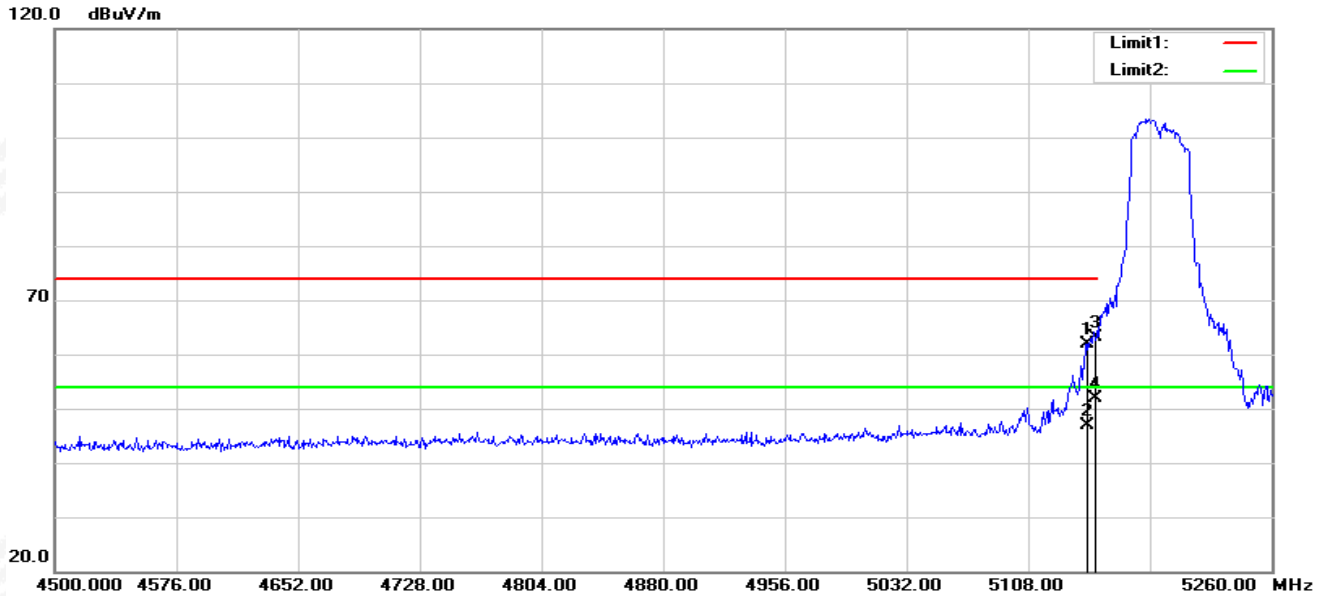
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	54.32	-5.23	49.09	74.00	-24.91	peak
2	5355.840	54.83	-5.24	49.59	74.00	-24.41	peak

802.11n20-H-V



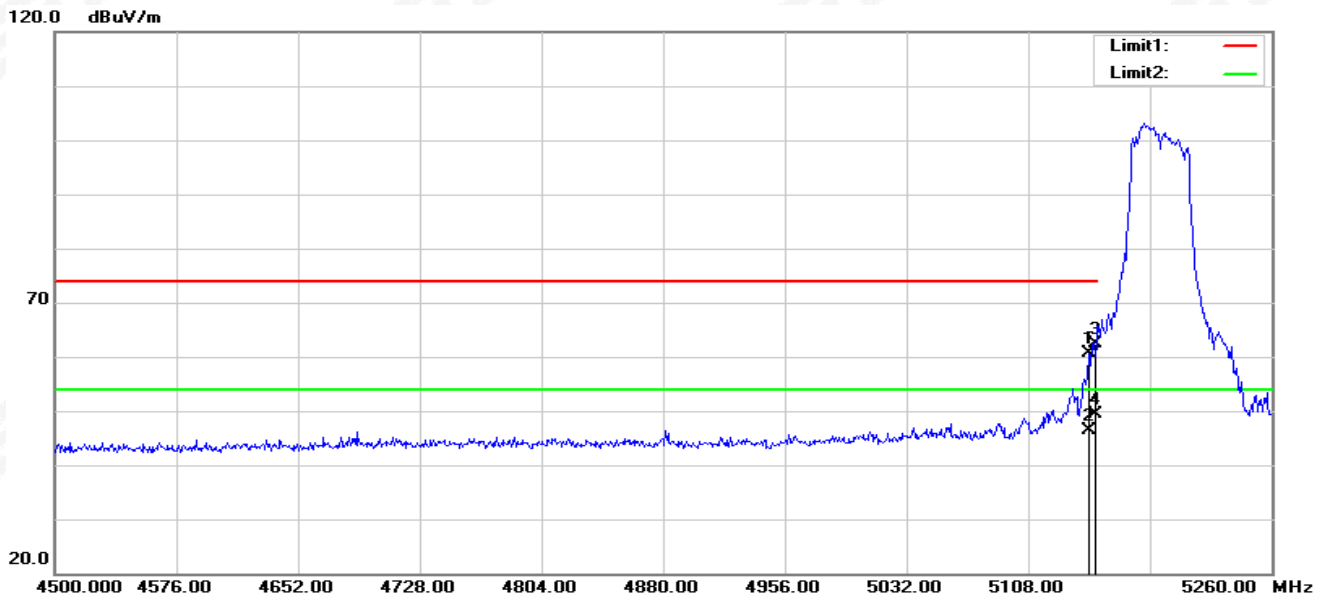
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	52.30	-5.23	47.07	74.00	-26.93	peak
2	5365.640	53.44	-5.24	48.20	74.00	-25.80	peak

802.11n40-L-H



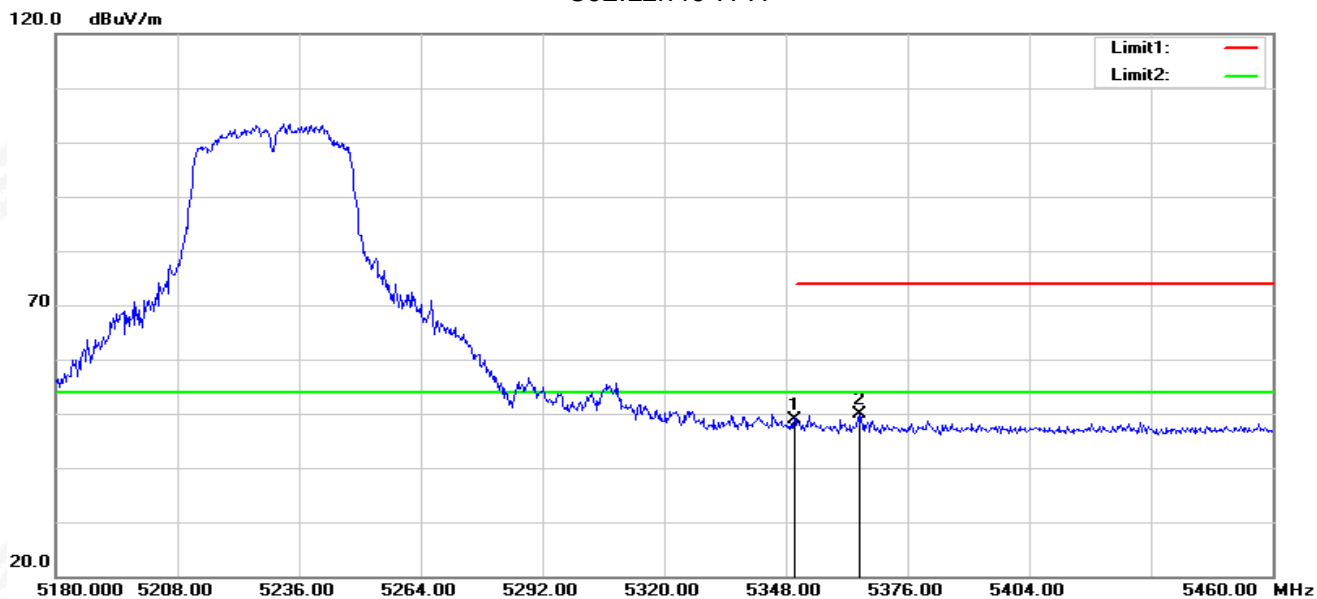
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5145.240	67.72	-5.73	61.99	74.00	-12.01	peak
2	5145.240	52.63	-5.73	46.90	54.00	-7.10	AVG
3	5150.000	68.98	-5.73	63.25	74.00	-10.75	peak
4	5150.000	57.73	-5.73	52.00	54.00	-2.00	AVG

802.11n40-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.000	66.24	-5.73	60.51	74.00	-13.49	peak
2	5146.000	52.07	-5.73	46.34	54.00	-7.66	AVG
3	5150.000	68.15	-5.73	62.42	74.00	-11.58	peak
4	5150.000	55.21	-5.73	49.48	54.00	-4.52	AVG

802.11n40-H-H



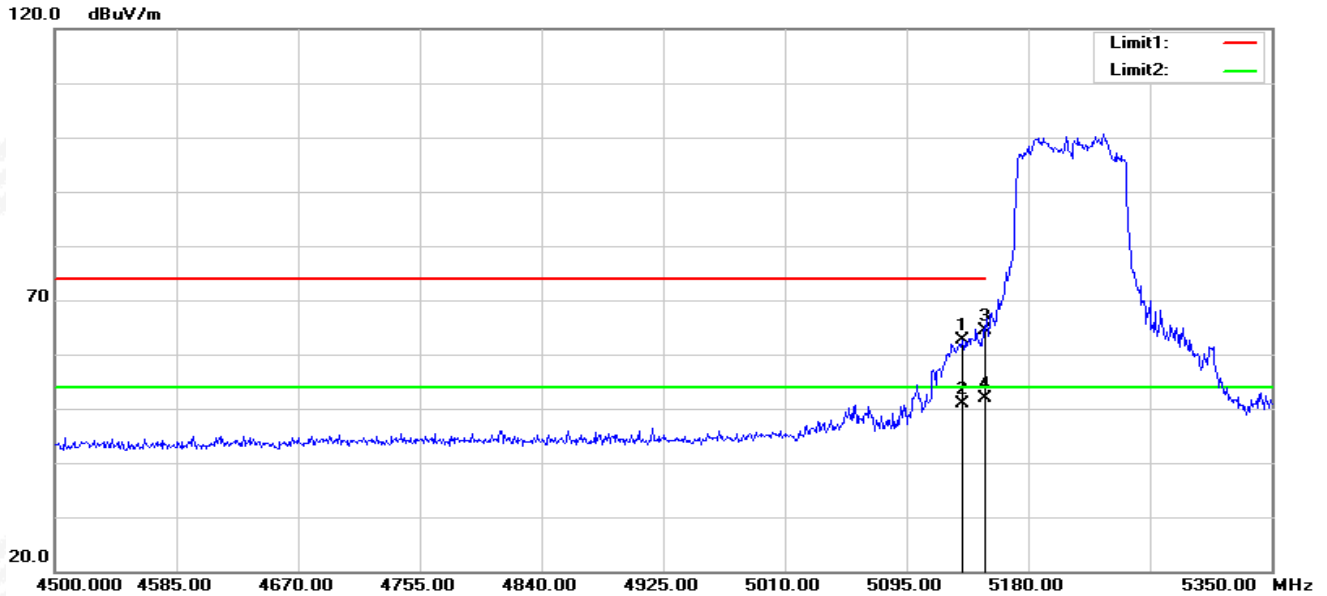
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	54.03	-5.23	48.80	74.00	-25.20	peak
2	5364.800	55.15	-5.24	49.91	74.00	-24.09	peak

802.11n40-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	52.18	-5.23	46.95	74.00	-27.05	peak
2	5400.080	53.76	-5.25	48.51	74.00	-25.49	peak

802.11ac80-L-H



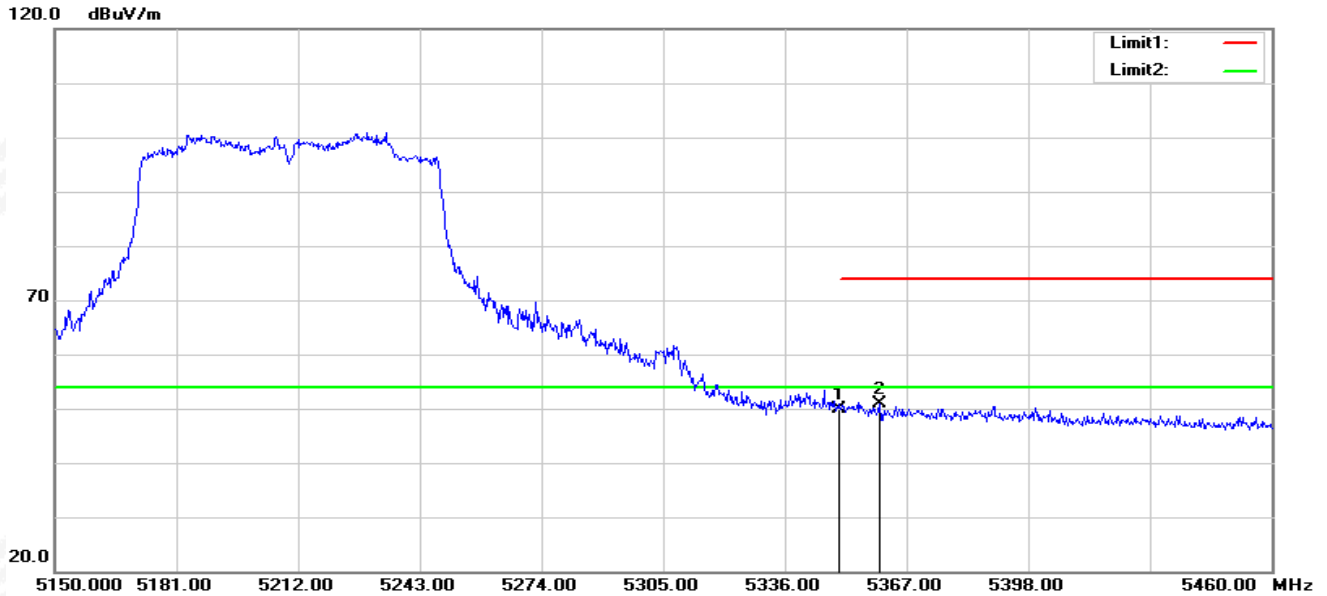
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5134.100	68.47	-5.73	62.74	74.00	-11.26	peak
2	5134.100	56.72	-5.73	50.99	54.00	-3.01	AVG
3	5150.000	70.10	-5.73	64.37	74.00	-9.63	peak
4	5150.000	57.68	-5.73	51.95	54.00	-2.05	AVG

802.11ac80-L-V



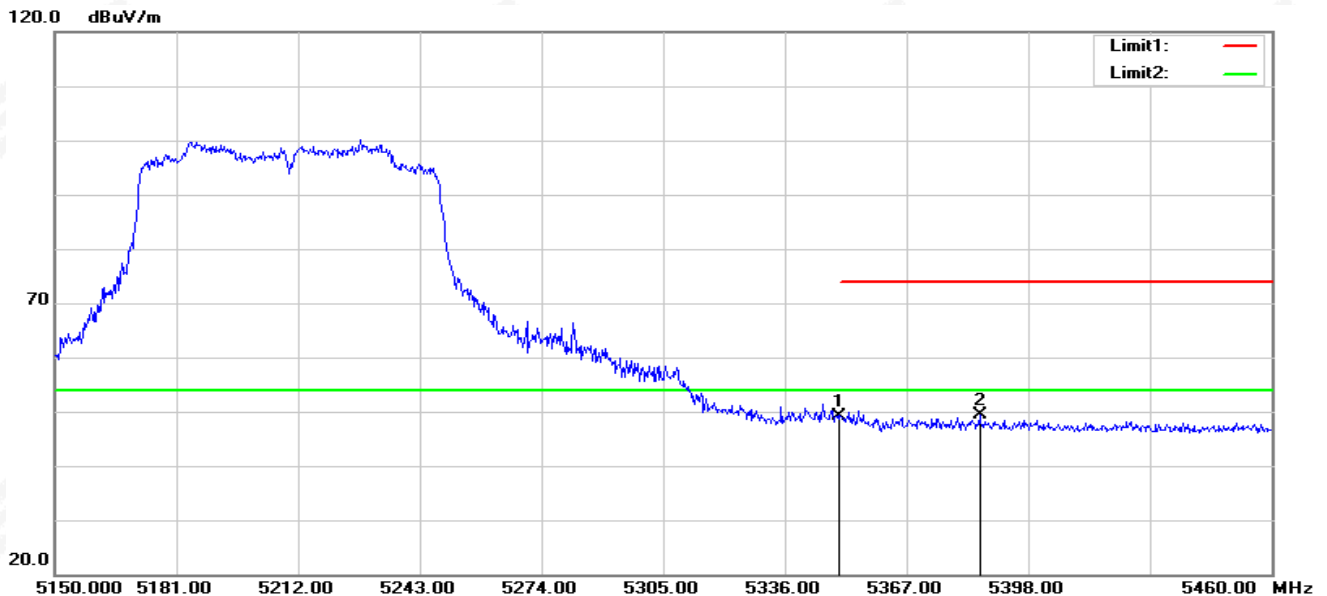
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5134.950	67.07	-5.73	61.34	74.00	-12.66	peak
2	5134.950	55.14	-5.73	49.41	54.00	-4.59	AVG
3	5150.000	66.48	-5.73	60.75	74.00	-13.25	peak
4	5150.000	56.50	-5.73	50.77	54.00	-3.23	AVG

802.11ac80-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	55.11	-5.23	49.88	74.00	-24.12	peak
2	5360.180	56.07	-5.23	50.84	74.00	-23.16	peak

802.11ac80-H-V

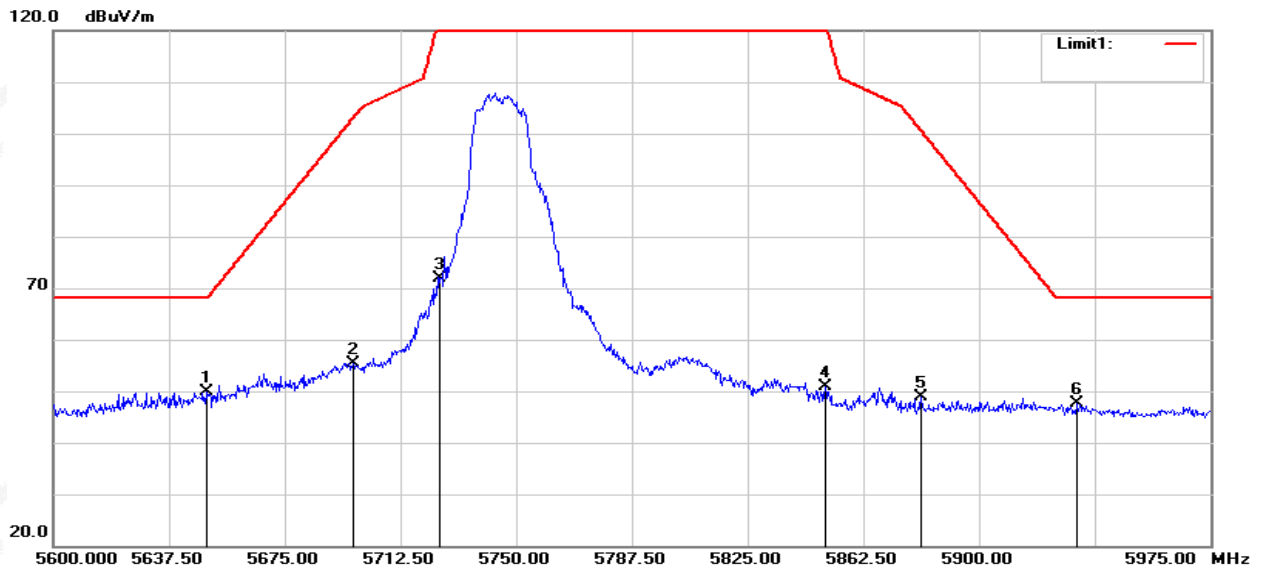


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	54.42	-5.23	49.19	74.00	-24.81	peak
2	5385.600	54.62	-5.24	49.38	74.00	-24.62	peak

Note: All modes have been measurement, only worst mode was reported.

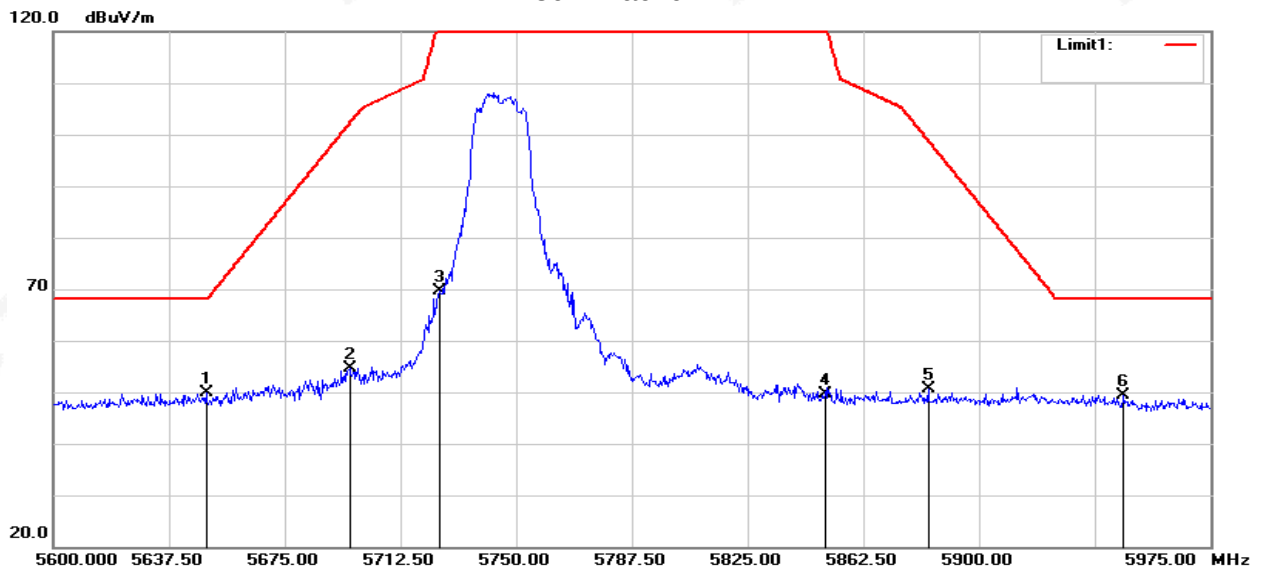
U-NII-3 (5.725-5.85 GHz)

802.11ac20-L-H



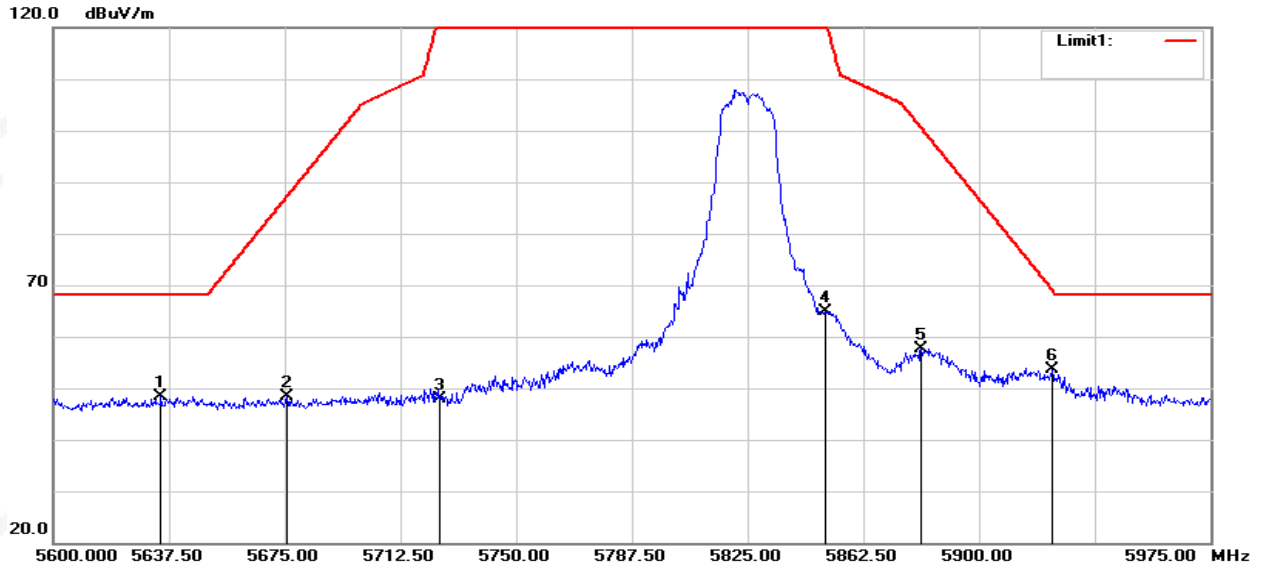
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5649.500	54.62	-4.68	49.94	68.20	-18.26	peak
2	5697.125	60.14	-4.66	55.48	103.07	-47.59	peak
3	5725.000	76.48	-4.57	71.91	122.20	-50.29	peak
4	5850.000	55.01	-4.10	50.91	122.20	-71.29	peak
5	5881.250	52.76	-3.96	48.80	100.58	-51.78	peak
6	5931.875	51.58	-3.94	47.64	68.20	-20.56	peak

802.11ac20-L-V



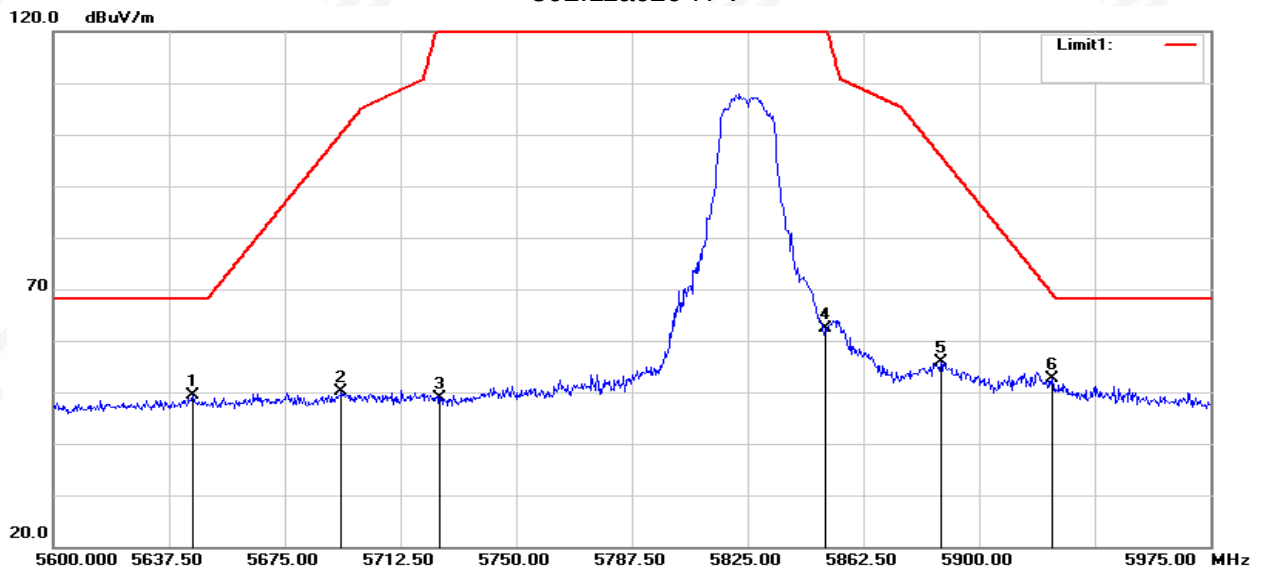
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5649.500	54.50	-4.68	49.82	68.20	-18.38	peak
2	5696.000	59.37	-4.67	54.70	102.24	-47.54	peak
3	5725.000	74.20	-4.57	69.63	122.20	-52.57	peak
4	5850.000	53.61	-4.10	49.51	122.20	-72.69	peak
5	5883.500	54.48	-3.96	50.52	98.91	-48.39	peak
6	5946.875	53.38	-3.96	49.42	68.20	-18.78	peak

802.11ac20-H-H



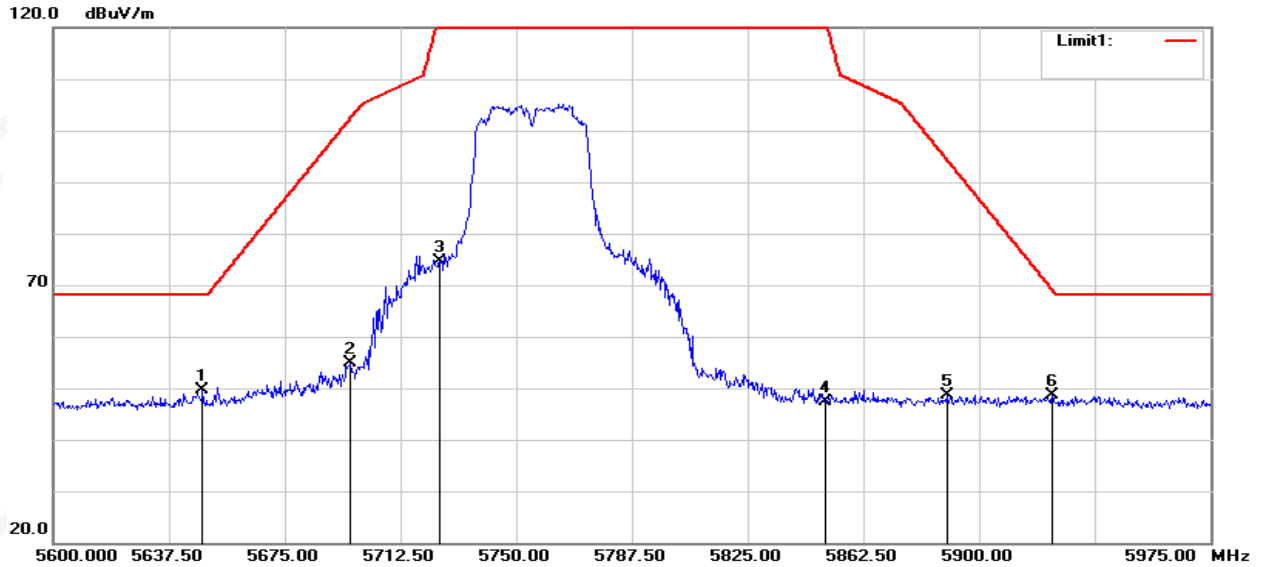
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5634.875	53.14	-4.68	48.46	68.20	-19.74	peak
2	5675.750	53.12	-4.67	48.45	87.26	-38.81	peak
3	5725.000	52.48	-4.57	47.91	122.20	-74.29	peak
4	5850.000	68.91	-4.10	64.81	122.20	-57.39	peak
5	5881.250	61.54	-3.96	57.58	100.58	-43.00	peak
6	5923.625	57.43	-3.92	53.51	69.22	-15.71	peak

802.11ac20-H-V



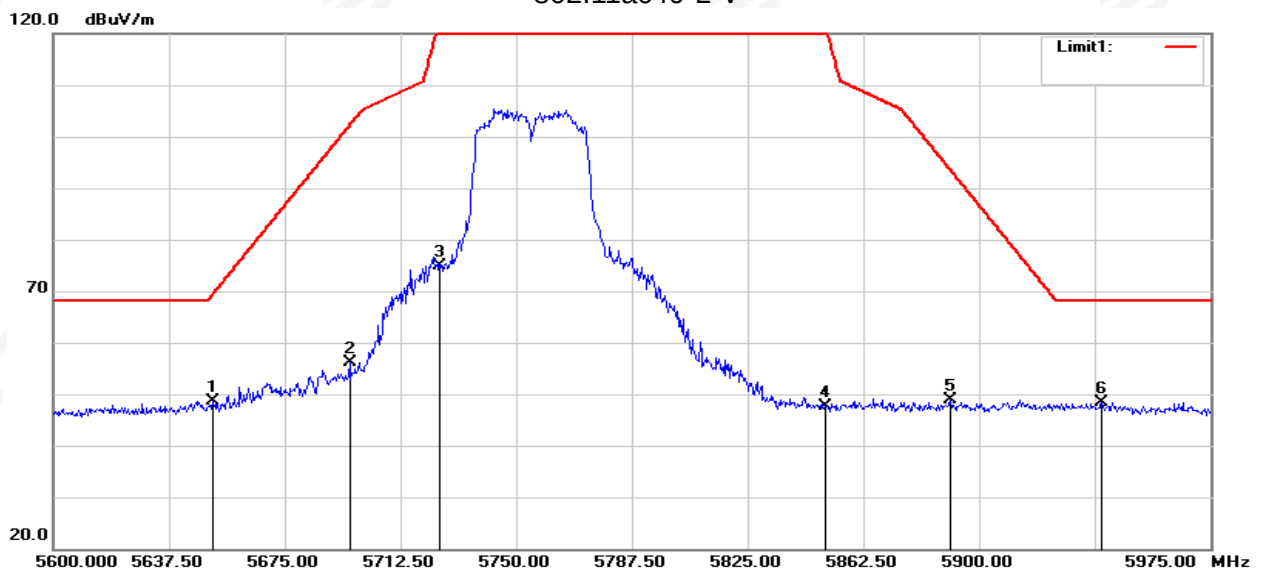
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5645.000	53.96	-4.68	49.28	68.20	-18.92	peak
2	5693.375	54.76	-4.66	50.10	100.30	-50.20	peak
3	5725.000	53.37	-4.57	48.80	122.20	-73.40	peak
4	5850.000	66.42	-4.10	62.32	122.20	-59.88	peak
5	5887.625	59.81	-3.93	55.88	95.86	-39.98	peak
6	5923.625	56.67	-3.92	52.75	69.22	-16.47	peak

802.11ac40-L-H



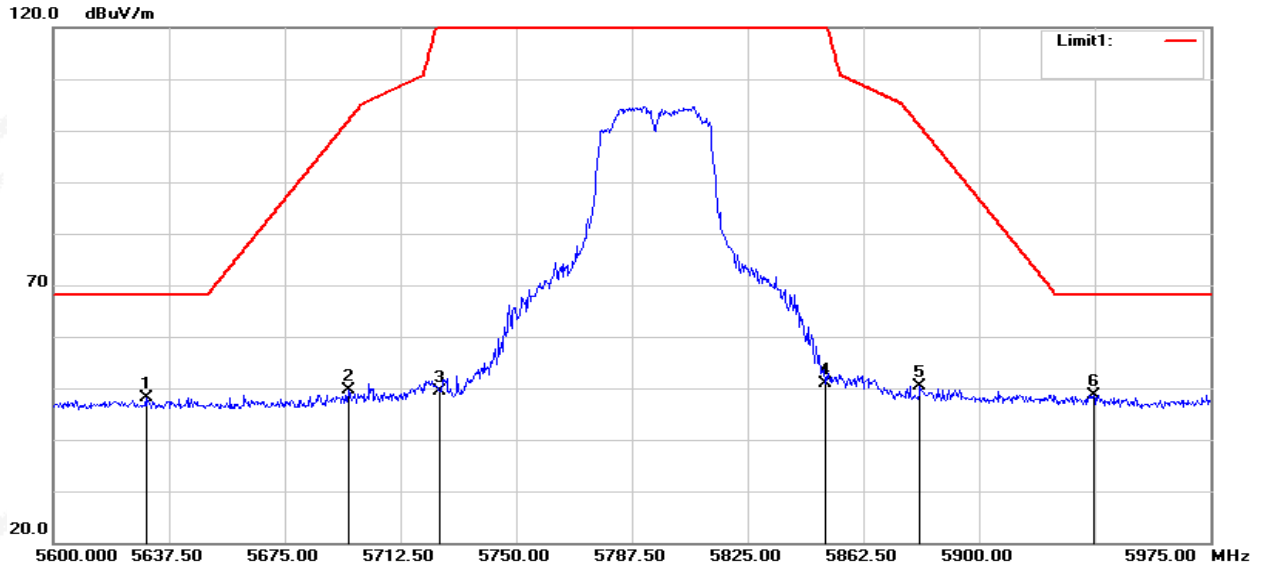
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5648.375	54.41	-4.68	49.73	68.20	-18.47	peak
2	5696.375	59.67	-4.67	55.00	102.52	-47.52	peak
3	5725.000	79.15	-4.57	74.58	122.20	-47.62	peak
4	5850.000	51.56	-4.10	47.46	122.20	-74.74	peak
5	5889.500	52.56	-3.93	48.63	94.47	-45.84	peak
6	5923.625	52.48	-3.92	48.56	69.22	-20.66	peak

802.11ac40-L-V



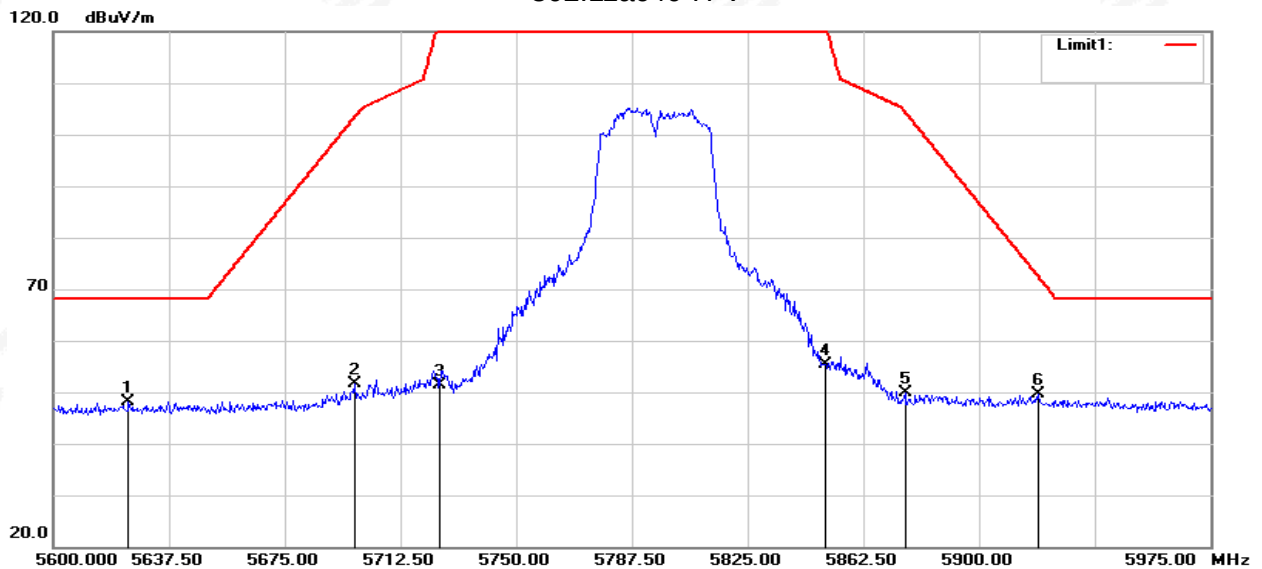
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5651.750	53.40	-4.68	48.72	69.50	-20.78	peak
2	5696.000	60.72	-4.67	56.05	102.24	-46.19	peak
3	5725.000	79.39	-4.57	74.82	122.20	-47.38	peak
4	5850.000	51.64	-4.10	47.54	122.20	-74.66	peak
5	5890.625	52.71	-3.92	48.79	93.64	-44.85	peak
6	5939.750	52.43	-3.95	48.48	68.20	-19.72	peak

802.11ac40-H-H



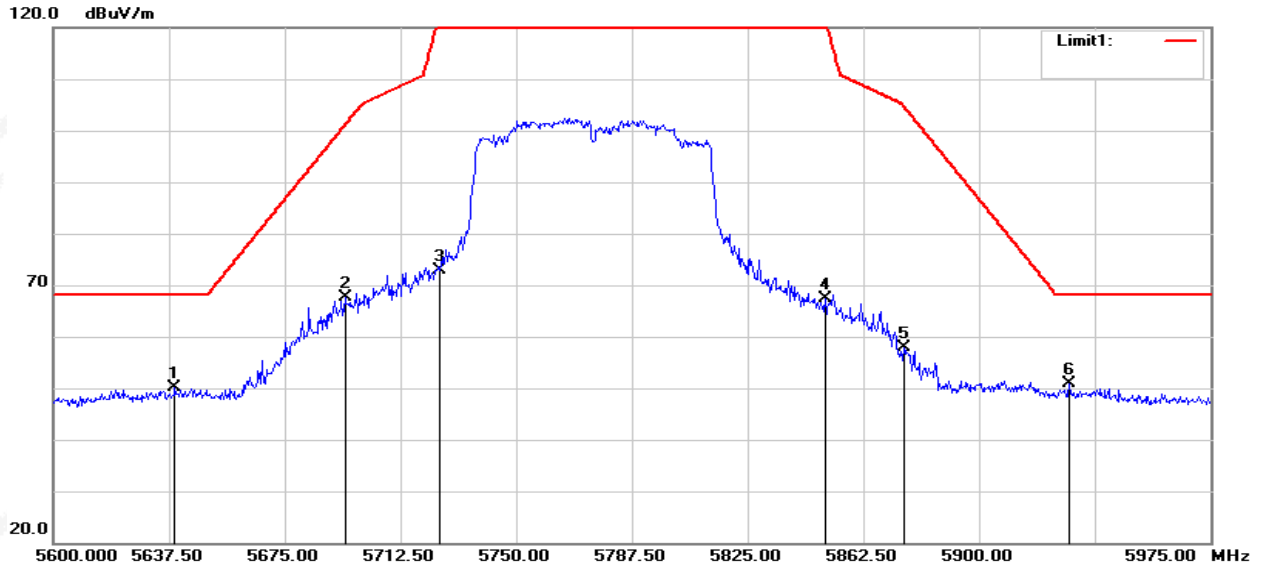
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5630.000	52.92	-4.69	48.23	68.20	-19.97	peak
2	5695.625	54.21	-4.66	49.55	101.96	-52.41	peak
3	5725.000	54.02	-4.57	49.45	122.20	-72.75	peak
4	5850.000	55.09	-4.10	50.99	122.20	-71.21	peak
5	5880.875	54.34	-3.96	50.38	100.85	-50.47	peak
6	5937.125	52.68	-3.94	48.74	68.20	-19.46	peak

802.11ac40-H-V



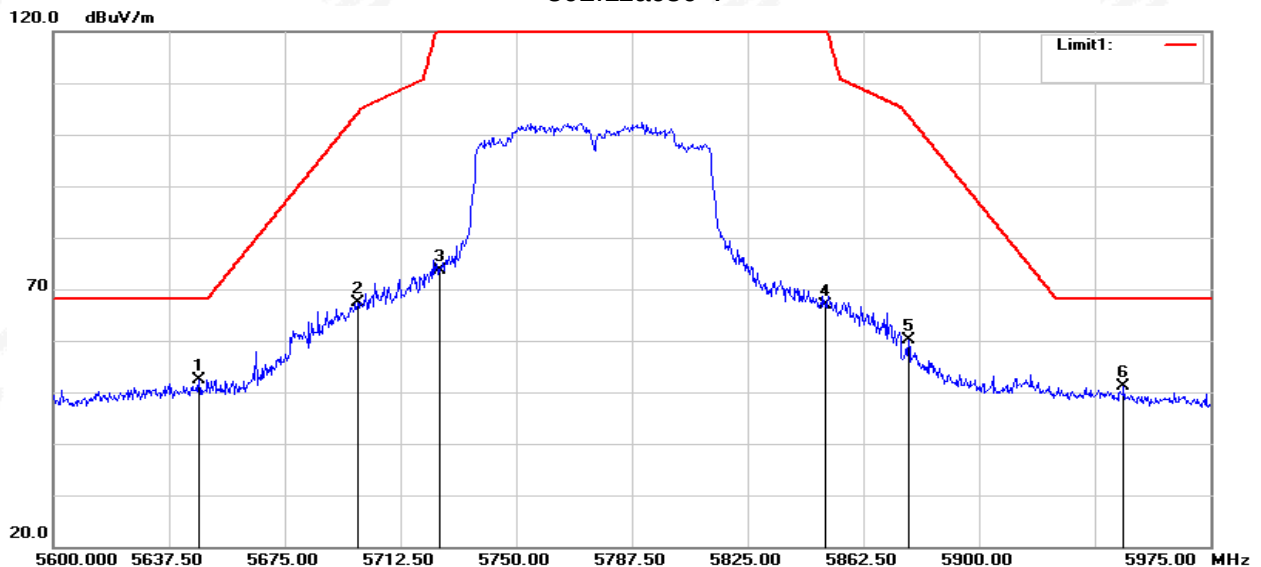
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5624.375	52.92	-4.69	48.23	68.20	-19.97	peak
2	5697.500	56.40	-4.66	51.74	103.35	-51.61	peak
3	5725.000	55.84	-4.57	51.27	122.20	-70.93	peak
4	5850.000	59.39	-4.10	55.29	122.20	-66.91	peak
5	5876.000	53.91	-3.99	49.92	104.46	-54.54	peak
6	5919.125	53.46	-3.91	49.55	72.55	-23.00	peak

802.11ac80-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5639.375	54.86	-4.69	50.17	68.20	-18.03	peak
2	5694.500	72.28	-4.66	67.62	101.13	-33.51	peak
3	5725.000	77.35	-4.57	72.78	122.20	-49.42	peak
4	5850.000	71.45	-4.10	67.35	122.20	-54.85	peak
5	5875.625	61.92	-3.99	57.93	104.74	-46.81	peak
6	5929.250	54.84	-3.93	50.91	68.20	-17.29	peak

802.11ac80-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5647.250	57.15	-4.68	52.47	68.20	-15.73	peak
2	5698.625	72.14	-4.66	67.48	104.18	-36.70	peak
3	5725.000	78.13	-4.57	73.56	122.20	-48.64	peak
4	5850.000	71.02	-4.10	66.92	122.20	-55.28	peak
5	5877.125	64.02	-3.98	60.04	103.63	-43.59	peak
6	5946.875	55.18	-3.96	51.22	68.20	-16.98	peak

Note: All modes have been measurement, only worst mode was reported.

4. POWER SPECTRAL DENSITY TEST

4.1 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 500KHz 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.

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

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

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



4.5 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.

4.6 TEST RESULTS

Note: The test data please reference to attachment "STS2407338W10_Appendix 5G WIFI".

5. BANDWIDTH MEASUREMENT

5.1 EMISSION BANDWIDTH (EBW) 26 BANDWID PROCEDURES / LIMIT

The following procedure shall be used for measuring 26 bandwidth.

5.1.1 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%.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 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.

5.1.5 TEST RESULTS

Note: The test data please reference to attachment "STS2407338W10_Appendix 5G WIFI".

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

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

5.2.1 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.

5.2.2 DEVIATION FROM STANDARD

No deviation.

5.2.3 TEST SETUP



5.2.4 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.

5.2.5 TEST RESULTS

Note: The test data please reference to attachment “STS2407338W10_Appendix 5G WIFI”.

5.3 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:

5.3.1 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.

5.3.2 DEVIATION FROM STANDARD

No deviation.

5.3.3 TEST SETUP



5.3.4 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.

5.3.5 TEST RESULTS

Note: The test data please reference to attachment "STS2407338W10_Appendix 5G WIFI".

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 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 Part15 (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	5725-5895	

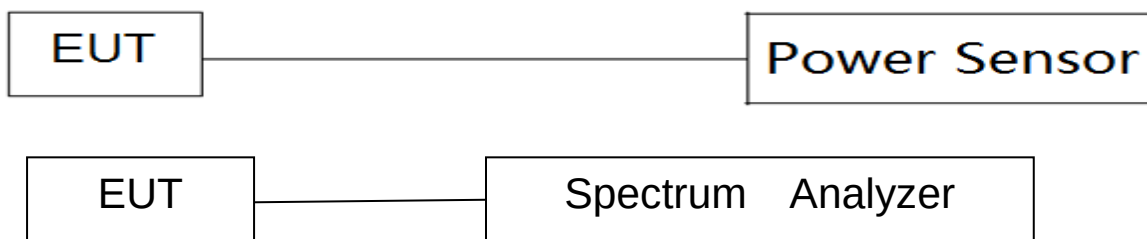
6.2 TEST PROCEDURE

The EUT was directly connected to the Power Sensor&PC

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 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.

6.6 TEST RESULTS

Note: The test data please reference to attachment "STS2407338W10_Appendix 5G WIFI".

7. AUTOMATICALLY DISCONTINUE TRANSMISSION

7.1 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.

7.2 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.

8. ANTENNA REQUIREMENT

8.1 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.

8.2 EUT ANTENNA

The EUT antenna is FPC Antenna. It comply 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*****