



Radio Test Report

Report No.: STS2412014W16

Issued for

Guangzhou MUNBYN Information Technology Co., Ltd.

Unit L3A01-4, No. 31-6, Xicha Road, Baiyun District,
Guangzhou, Guangdong Province, China.

Product Name: Android Barcode Scanner

Brand Name: MUNBYN

Model Name: AS01

Series Model(s): AS02, AS03, AS04, AS05, MTP210,
TS210.

FCC ID: 2BF4EAS01

Test Standards: FCC Part15.407

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.

**TEST REPORT**

Applicant's Name: Guangzhou MUNBYN Information Technology Co., Ltd.
Address: Unit L3A01-4, No. 31-6, Xicha Road, Baiyun District, Guangzhou, Guangdong Province, China.
Manufacturer's Name: Guangzhou MUNBYN Information Technology Co., Ltd.
Address: Unit L3A01-4, No. 31-6, Xicha Road, Baiyun District, Guangzhou, Guangdong Province, China.

Product Description

Product Name: Android Barcode Scanner
Brand Name: MUNBYN
Model Name: AS01
Series Model(s): AS02, AS03, AS04, AS05, MTP210, TS210.

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.

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Date of Test

Date of receipt of test item: 05 Dec. 2024

Date (s) of performance of tests: 05 Dec. 2024 ~ 25 Jan. 2025

Date of Issue: 25 Jan. 2025

Test Result: **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

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Tony Liu

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Bovey Yang

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	25 Jan. 2025	STS2412014W16	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 expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	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	Android Barcode Scanner	
Brand Name	MUNBYN	
Model Name	AS01	
Series Model(s)	AS02, AS03, AS04, AS05, MTP210, TS210.	
Model Difference	Just the model is different	
Product Description	The EUT is Android Barcode Scanner	
	Operation Frequency:	5.2GWLAN: IEEE 802.11a/ n(HT20)/ac(VHT20)/ax(HE20): 5.180GHz-5.240GHz IEEE 802.11n(HT40)/ac(VHT40)/ax(HE40): 5.190GHz-5.230GHz IEEE 802.11ac(VHT80)/ax(HE80):5.210GHz IEEE 802.11ac(VHT160)/ax(HE160): 5.250GHz
		5.3GWLAN: IEEE 802.11a/ n(HT20)/ac(VHT20)/ax(HE20): 5.260GHz-5.320GHz IEEE 802.11 n(HT40)/ac(VHT40)/ax(HE40): 5.270GHz-5.310GHz IEEE 802.11ac(VHT80)/ax(HE80): 5.290GHz
		5.6G WLAN: IEEE 802.11a/ n(HT20)/ac(VHT20) /ax(HE20): 5.500GHz-5.700GHz IEEE 802.11 n(HT40)/ac(VHT40)/ax(HE40): 5.510GHz-5.670GHz IEEE 802.11ac(VHT80)/ax(HE80): 5.530GHz-5.610GHz IEEE 802.11ac(VHT160)/ax(HE160): 5.570GHz
		5.8G WLAN: IEEE 802.11a/ n(HT20)/ac(VHT20)/ax(HE20): 5.745GHz-5.825GHz IEEE 802.11a/ n(HT40)/ac(VHT40)/ax(HE40): 5.755GHz-5.795GHz IEEE 802.11ac(VHT80)/ax(HE80):5.775GHz
		Modulation Type: 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 802.11ax(OFDM, OFDMA): BPSK,QPSK,16-QAM,64-QAM,256-QAM, 1024QAM
	Antenna Type:	Patch Antenna
Test Channel	Antenna Gain (dBi):	ANT 1 :0.97 ANT 2 :0.97
	More details of EUT technical specification, please refer to the User Manual.	
Power Rating	N/A	



Adapter	Input: 100-240V~50/60Hz 0.8A Output: DC 5V/3A, DC 9V/3A, DC 12V/2.5A, DC 15V/2A, DC 20V/1.75A 30W
Battery	Rated Voltage: 3.85V Charge Limit Voltage: 4.4V Capacity: 7000mAh
Hardware version number	P1
Software version number	MY_PDA_AS01_A14_241205_GL_v1.0.0_SMT
Connecting I/O Port(s)	Please refer to the Note 1.

Note

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

3.

Operation Frequency of channel			
5.180GHz-5.240GHz		5.500GHz-5.720GHz	
Channel	Frequency	Channel	Frequency
36	5180	100	5500
38	5190	102	5510
40	5200	104	5520
42	5210	106	5530
44	5220	108	5540
46	5230	110	5550
48	5240	112	5560
50	5250	114	5570
		116	5580
		118	5590
5.260GHz-5.320GHz			
Channel	Frequency	120	5600
52	5260	122	5610
54	5270	124	5620
56	5280	126	5630
58	5290	128	5640
60	5300	132	5660
62	5310	134	5670
64	5320	136	5680
		140	5700
5.745GHz-5.825GHz			
Channel	Frequency		
149	5745		
151	5755		
153	5765		
157	5785		
159	5795		
161	5805		
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) ax(HE20)

Channel	Freq.(MHz)	Channel	Freq.(MHz)
36	5180	52	5260
40	5200	60	5300
48	5240	64	5320

For 802.11a/n(HT20)/ac(VHT20) ax(HE20)

Channel	Freq.(MHz)	Channel	Freq.(MHz)
100	5500	149	5745
116	5580	157	5785
140	5700	165	5825

For 802.11 n(HT40)/ac(VHT40) ax(HE40)

Channel	Freq.(MHz)	Channel	Freq.(MHz)
38	5190	54	5270
46	5230	62	5310

For 802.11 n(HT40)/ac(VHT40) ax(HE40)

Channel	Freq.(MHz)	Channel	Freq.(MHz)
102	5510	151	5755
110	5550	159	5795
134	5670		

For 802.11ac(VHT80) ax(HE80)

Channel	Freq.(MHz)	Channel	Freq.(MHz)
42	5210	58	5290

For 802.11ac(VHT80) ax(HE80)

Channel	Freq.(MHz)	Channel	Freq.(MHz)
106	5530	155	5775
122	5610		

For 802.11ac (VHT160)ax(HE160)

Channel	Freq.(MHz)	Channel	Freq.(MHz)
50	5250	114	5570

3. 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}

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 HT20 CH36&CH40&CH48	6 Mbps
Mode 2	TX IEEE 802.11a HT20 CH52&CH60&CH64	6 Mbps
Mode 3	TX IEEE 802.11a HT20 CH100&CH116&CH140	6 Mbps
Mode 4	TX IEEE 802.11a HT20 CH149&CH157&CH165	6 Mbps
Mode 5	TX IEEE 802.11n HT20 CH36&CH40&CH48	MCS 0
Mode 6	TX IEEE 802.11ac VHT20 CH36&CH40&CH48	NSS1 MCS0
Mode 7	TX IEEE 802.11n HT20 CH52&CH60&CH64	MCS 0
Mode 8	TX IEEE 802.11ac VHT20 CH52&CH60&CH64	NSS1 MCS0
Mode 9	TX IEEE 802.11n HT20 CH100&CH116&CH140	MCS 0
Mode 10	TX IEEE 802.11ac VHT20 CH100&CH116&CH140	NSS1 MCS0
Mode 11	TX IEEE 802.11n HT20 CH149&CH157&CH165	MCS 0
Mode 12	TX IEEE 802.11ac VHT20 CH149&CH157&CH165	NSS1 MCS0
Mode 13	TX IEEE 802.11ax HE20 CH36&CH40&CH48	NSS1 MCS0
Mode 14	TX IEEE 802.11ax HE20 CH52&CH60&CH64	NSS1 MCS0
Mode 15	TX IEEE 802.11ax HE20 CH100&CH116&CH140	NSS1 MCS0
Mode 16	TX IEEE 802.11ax HE20 CH149&CH157&CH165	NSS1 MCS0
Mode 17	TX IEEE 802.11n HT40 CH38&CH46	MCS 0
Mode 18	TX IEEE 802.11ac VHT40 CH38&CH46	NSS1 MCS0
Mode 19	TX IEEE 802.11n HT40 CH54 &CH62	MCS 0
Mode 20	TX IEEE 802.11ac VHT40 CH54 &CH62	NSS1 MCS0
Mode 21	TX IEEE 802.11n HT40 CH102&CH110&CH134	MCS 0
Mode 22	TX IEEE 802.11ac VHT40 CH102&CH110&CH134	NSS1 MCS0
Mode 23	TX IEEE 802.11n HT40 CH151&CH159	MCS 0



Mode 24	TX IEEE 802.11ac VHT40 CH151&CH159	NSS1 MCS0
Mode 25	TX IEEE 802.11ax HE40 CH38&CH46	NSS1 MCS0
Mode 26	TX IEEE 802.11ax HE40 CH54 &CH62	NSS1 MCS0
Mode 27	TX IEEE 802.11ax HE40 CH102&CH110&CH134	NSS1 MCS0
Mode 28	TX IEEE 802.11ax HE40 CH151&CH159	NSS1 MCS0
Mode 29	TX IEEE 802.11ac VHT80 CH42	NSS1 MCS0
Mode 30	TX IEEE 802.11ac VHT80 CH58	NSS1 MCS0
Mode 31	TX IEEE 802.11ac VHT80 CH106&122	NSS1 MCS0
Mode 32	TX IEEE 802.11ac VHT80 CH155	NSS1 MCS0
Mode 33	TX IEEE 802.11ax HE80 CH42	NSS1 MCS0
Mode 34	TX IEEE 802.11ax HE80 CH58	NSS1 MCS0
Mode 35	TX IEEE 802.11ax HE80 CH106&122	NSS1 MCS0
Mode 36	TX IEEE 802.11ax HE80 CH155	NSS1 MCS0
Mode 37	TX IEEE 802.11ac VHT160 CH50	NSS1 MCS0
Mode 38	TX IEEE 802.11ax HE160 CH50	NSS1 MCS0
Mode 39	TX IEEE 802.11ac VHT160 CH114	NSS1 MCS0
Mode 40	TX IEEE 802.11ax HE160 CH114	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 41: charging mode

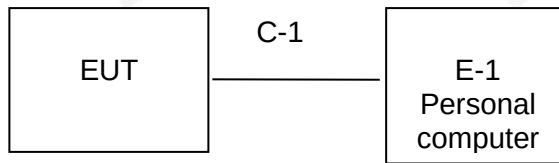
2.3 TEST SOFTWARE AND POWER LEVEL

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

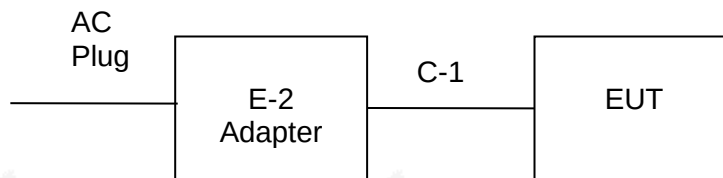
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power Class	ANT_2 Power Class	Software For Testing
WIFI(5G)	U-NII-1 (5150MHz-5250MHz)	802.11a	ANT 1 :0.97 ANT 2 :0.97	12	11	CMD
		802.11n(HT20)		12	11	
		802.11n(HT40)		12	11	
		802.11ac(VHT20)		12	11	
		802.11ac(VHT40)		12	11	
		802.11ac(VHT80)		12	11	
		802.11 ac(VHT160)		12	11	
		802.11ax(HE20)		12	11	
		802.11ax(HE40)		12	11	
		802.11ax(HE80)		12	11	
		802.11ax(HE160)		12	11	
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-2A (5250MHz-5350MHz)	802.11a	ANT 1 :0.97 ANT 2 :0.97	12	11	CMD
		802.11n(HT20)		12	11	
		802.11n(HT40)		12	11	
		802.11ac(VHT20)		12	11	
		802.11ac(VHT40)		12	11	
		802.11ac(VHT80)		12	11	
		802.11 ac(VHT160)		12	11	
		802.11ax(HE20)		12	11	
		802.11ax(HE40)		12	11	
		802.11ax(HE80)		12	11	
		802.11ax(HE160)		12	11	
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-2C (5470MHz-5725MHz)	802.11a	ANT 1 :0.97 ANT 2 :0.97	12	11	CMD
		802.11n(HT20)		12	11	
		802.11n(HT40)		12	11	
		802.11ac(VHT20)		12	11	
		802.11ac(VHT40)		12	11	
		802.11ac(VHT80)		12	11	
		802.11 ac(VHT160)		12	11	
		802.11ax(HE20)		12	11	
		802.11ax(HE40)		12	11	
		802.11ax(HE80)		12	11	
		802.11ax(HE160)		12	11	
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	ANT 1 :0.97 ANT 2 :0.97	11	10	CMD
		802.11n(HT20)		11	10	
		802.11n(HT40)		11	10	
		802.11ac(VHT20)		11	10	
		802.11ac(VHT40)		11	10	
		802.11ac(VHT80)		11	10	
		802.11ax(HE20)		11	10	
		802.11ax(HE40)		11	10	
		802.11ax(HE80)		11	10	
		802.11ax(HE160)		11	10	
		802.11ax(HE80)		11	10	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation Test Set



Conduction Test Set



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.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Personal computer	DELL	Inspiron 3501	N/A
E-2	Adapter	ZTC	NB-A515A	N/A
C-1	USB Cable	ZTC	NB-A515A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	Shielded	NO	150cm	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	2024.09.23	2025.09.22
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	2024.09.30	2025.09.29
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	2024.09.23	2025.09.22
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	2024.09.23	2025.09.22
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	2024.09.24	2025.09.23
Limtter	CYBERTEK	EM5010	N/A	2024.09.24	2025.09.23
LISN	R&S	ENV216	101242	2024.09.24	2025.09.23
LISN	EMCO	3810/2NM	23625	2024.09.24	2025.09.23
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

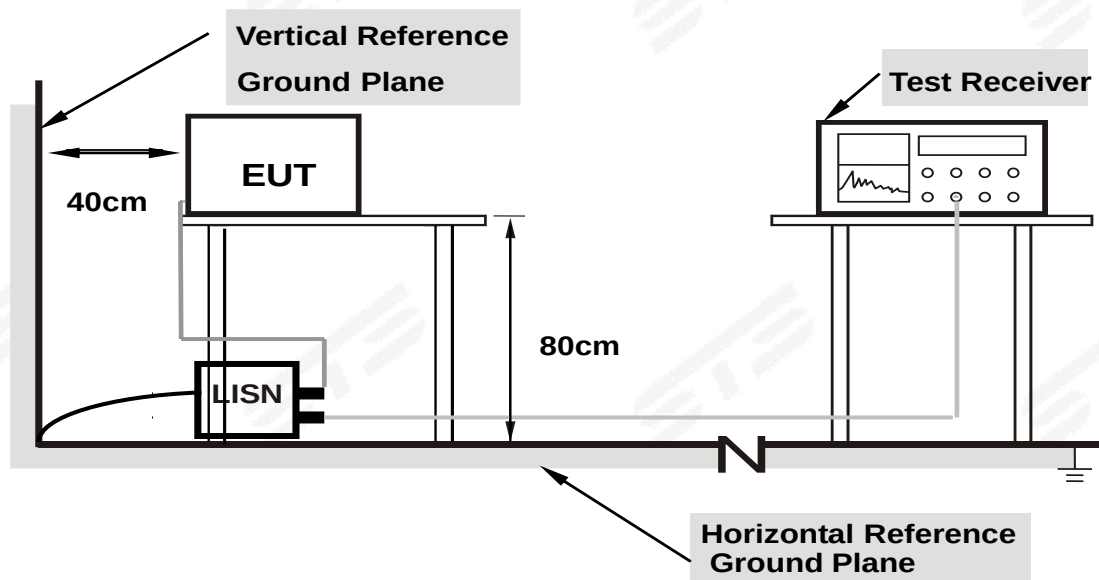
3.1.2 TEST PROCEDURE

- 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.

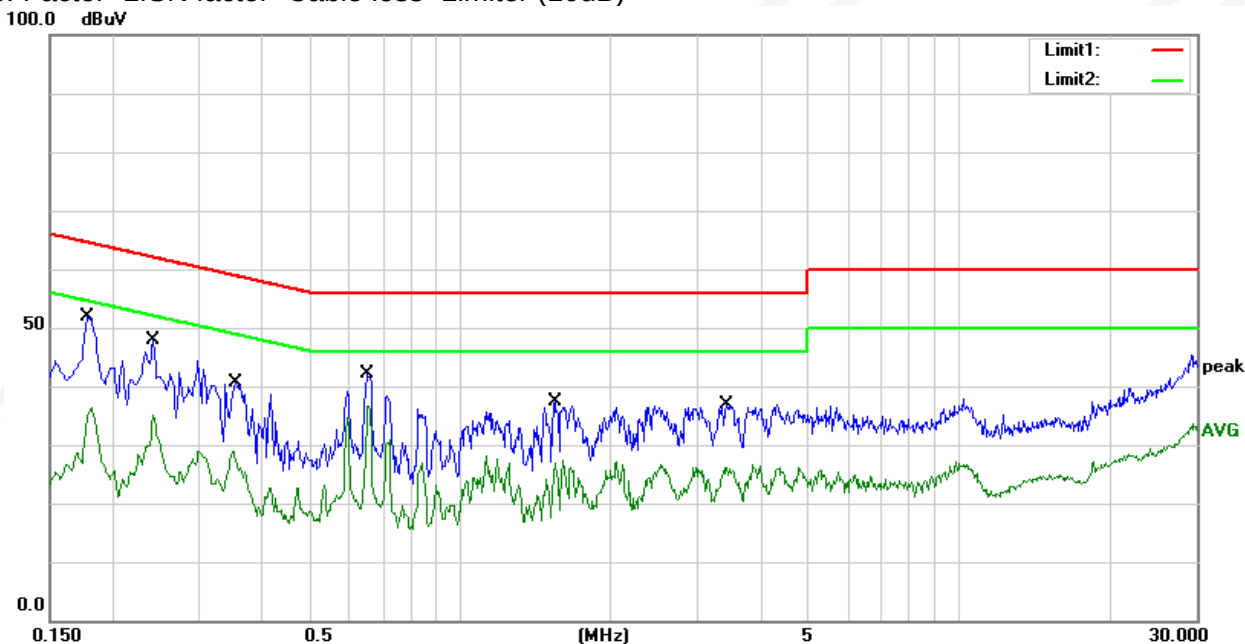
3.1.6 TEST RESULTS

Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode :	Mode 41		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1780	31.98	19.77	51.75	64.58	-12.83	QP
2	0.1780	16.58	19.77	36.35	54.58	-18.23	AVG
3	0.2420	27.86	19.96	47.82	62.03	-14.21	QP
4	0.2420	15.22	19.96	35.18	52.03	-16.85	AVG
5	0.3540	20.42	20.11	40.53	58.87	-18.34	QP
6	0.3540	8.85	20.11	28.96	48.87	-19.91	AVG
7	0.6540	22.28	19.86	42.14	56.00	-13.86	QP
8	0.6540	16.89	19.86	36.75	46.00	-9.25	AVG
9	1.5460	17.52	19.78	37.30	56.00	-18.70	QP
10	1.5460	7.67	19.78	27.45	46.00	-18.55	AVG
11	3.4220	16.95	19.84	36.79	56.00	-19.21	QP
12	3.4220	6.80	19.84	26.64	46.00	-19.36	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)



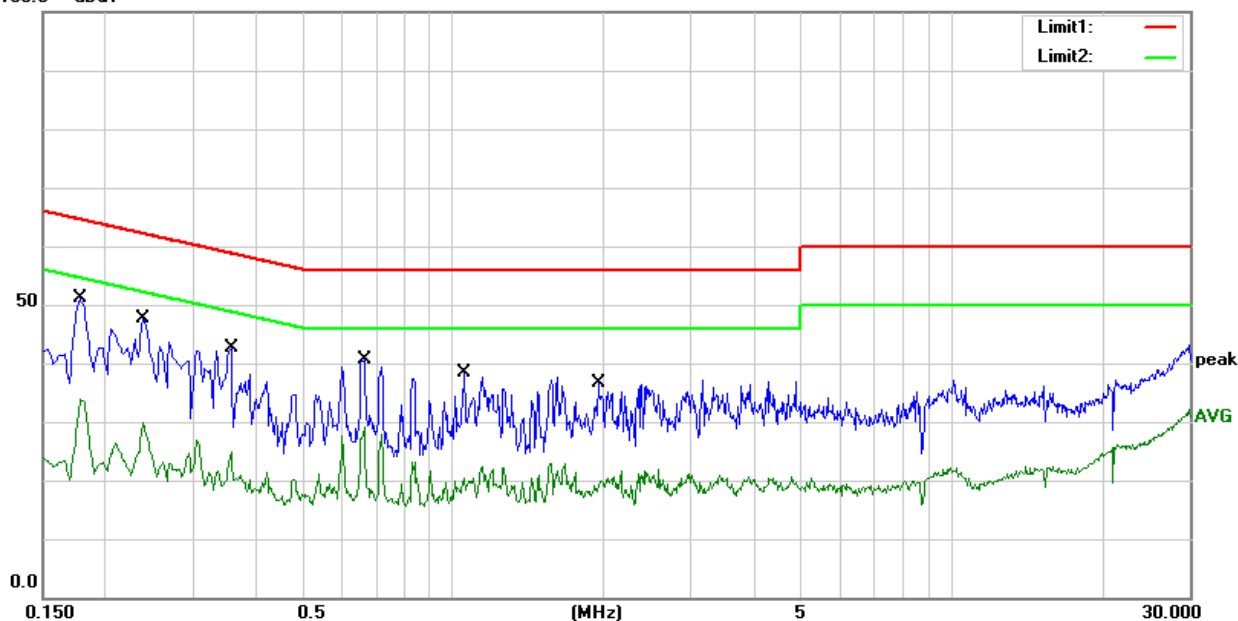
Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage	AC 120V/60Hz	Phase:	N
Test Mode	Mode 41		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1780	31.27	19.81	51.08	64.58	-13.50	QP
2	0.1780	14.12	19.81	33.93	54.58	-20.65	AVG
3	0.2380	27.62	20.01	47.63	62.17	-14.54	QP
4	0.2380	9.94	20.01	29.95	52.17	-22.22	AVG
5	0.3580	22.50	20.13	42.63	58.77	-16.14	QP
6	0.3580	4.66	20.13	24.79	48.77	-23.98	AVG
7	0.6620	20.76	19.86	40.62	56.00	-15.38	QP
8	0.6620	9.17	19.86	29.03	46.00	-16.97	AVG
9	1.0540	18.50	19.77	38.27	56.00	-17.73	QP
10	1.0540	2.55	19.77	22.32	46.00	-23.68	AVG
11	1.9580	16.67	19.88	36.55	56.00	-19.45	QP
12	1.9580	3.12	19.88	23.00	46.00	-23.00	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:

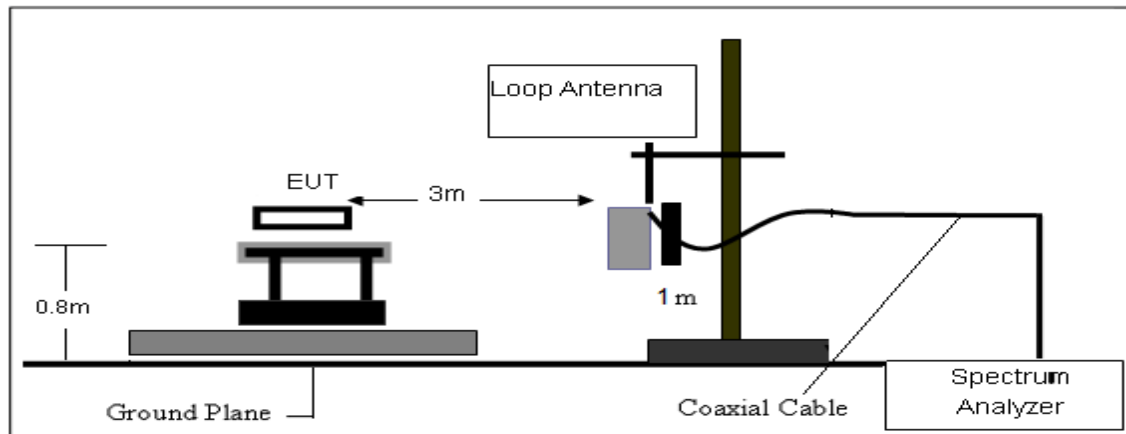
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.2 DEVIATION FROM TEST STANDARD

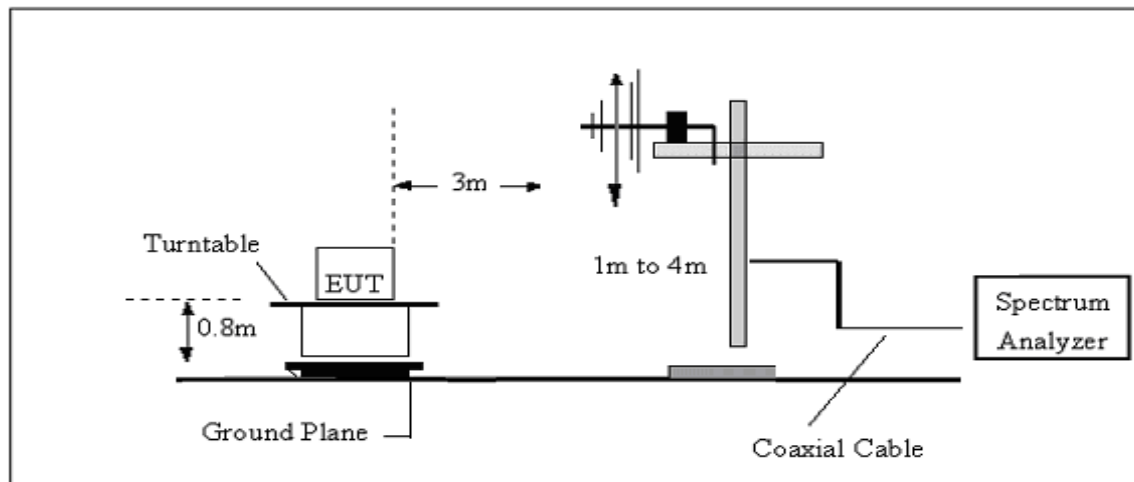
No deviation

3.2.3 TEST SETUP

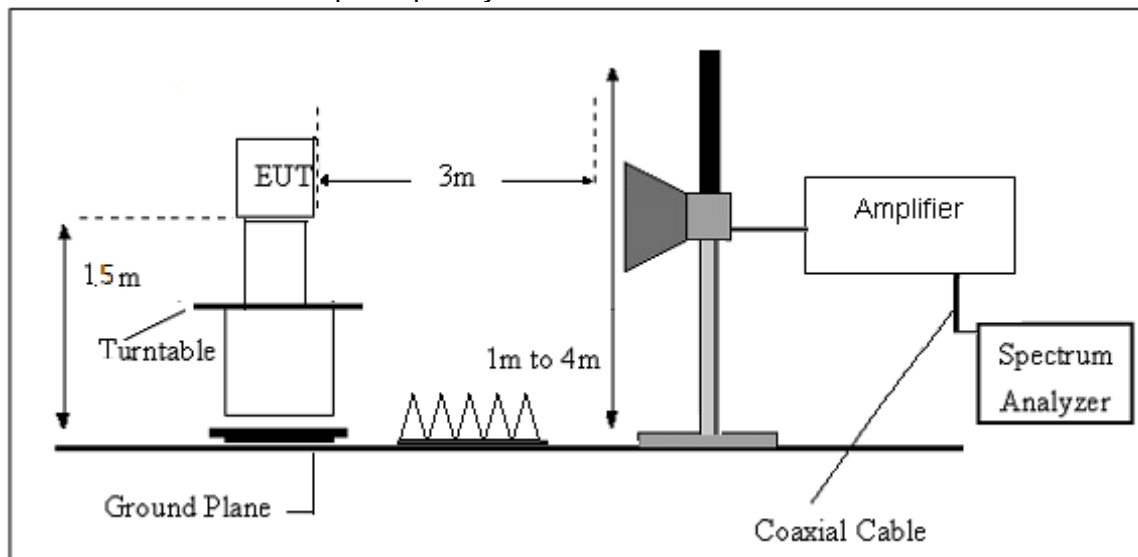
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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%
Test Voltage:	DC 3.85V From Battery	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)

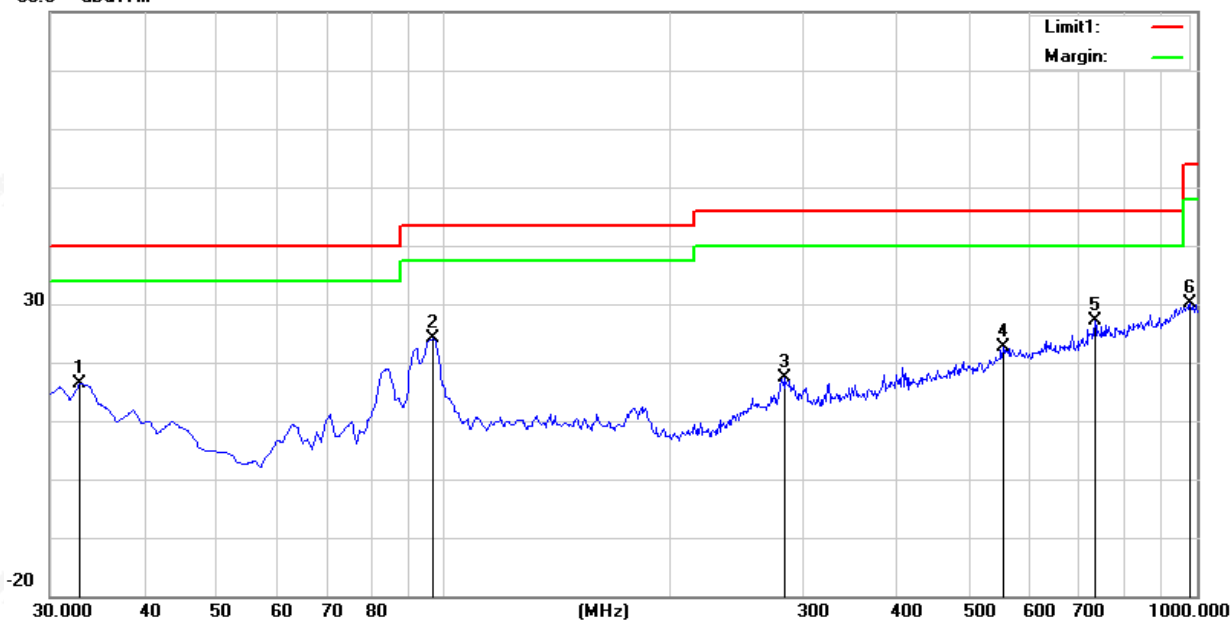
Temperature	23.4°C	Relative Humidity:	60%
Test Voltage	DC 3.85V From Battery	Polarization:	Horizontal
Test Mode	Mode 1~40(Mode 22 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.9100	30.77	-14.33	16.44	40.00	-23.56	peak
2	96.9300	44.64	-20.57	24.07	43.50	-19.43	peak
3	284.1400	32.84	-15.46	17.38	46.00	-28.62	peak
4	553.8000	28.41	-5.67	22.74	46.00	-23.26	peak
5	733.2500	29.49	-2.35	27.14	46.00	-18.86	peak
6	981.5700	27.45	2.57	30.02	54.00	-23.98	peak

Remark:

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

80.0 dBuV/m

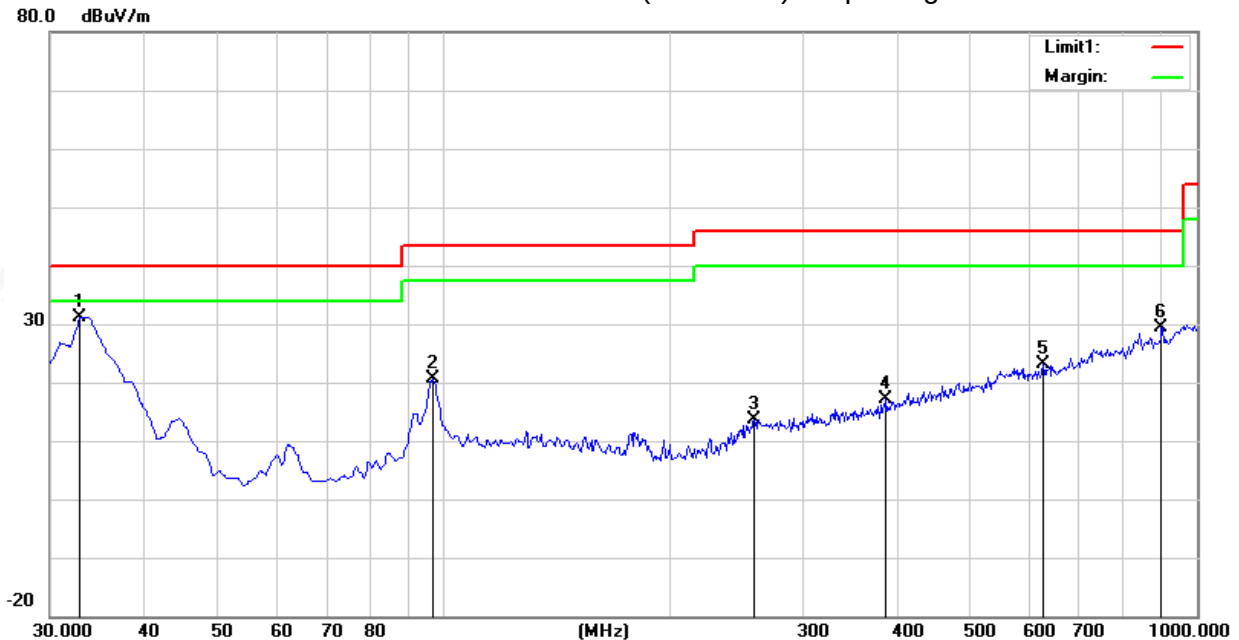


Temperature	23.4℃	Relative Humidity:	60%
Test Voltage	DC 3.85V From Battery	Polarization:	Vertical
Test Mode	Mode 1~40(Mode 22 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.9100	45.55	-14.33	31.22	40.00	-8.78	peak
2	96.9300	41.14	-20.57	20.57	43.50	-22.93	peak
3	258.9200	28.58	-14.90	13.68	46.00	-32.32	peak
4	387.9300	28.77	-11.73	17.04	46.00	-28.96	peak
5	625.5800	28.48	-5.25	23.23	46.00	-22.77	peak
6	900.0900	29.81	-0.45	29.36	46.00	-16.64	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)	Orrected Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
Low Channel (802.11ac160/ 5250 MHz)										
3258.27	45.07	44.70	6.70	28.20	-9.80	35.27	68.20	-32.93	Pk	Vertical
3258.27	40.74	44.70	6.70	28.20	-9.80	30.94	54.00	-23.06	AV	Vertical
3264.95	45.10	44.70	6.70	28.20	-9.80	35.30	74.00	-38.70	Pk	Horizontal
3264.95	40.91	44.70	6.70	28.20	-9.80	31.11	54.00	-22.89	AV	Horizontal
3985.83	39.26	44.20	7.90	29.70	-6.60	32.66	74.00	-41.34	Pk	Vertical
3985.83	36.68	44.20	7.90	29.70	-6.60	30.08	54.00	-23.92	AV	Vertical
3990.19	39.11	44.20	7.90	29.70	-6.60	32.51	74.00	-41.49	Pk	Horizontal
3990.19	35.98	44.20	7.90	29.70	-6.60	29.38	54.00	-24.62	AV	Horizontal
7223.08	36.80	43.50	11.40	35.50	3.40	40.20	68.20	-28.00	Pk	Vertical
7223.08	34.79	43.50	11.40	35.50	3.40	38.19	54.00	-15.81	AV	Vertical
7225.64	37.61	43.50	11.40	35.50	3.40	41.01	68.20	-27.19	Pk	Horizontal
7225.64	34.38	43.50	11.40	35.50	3.40	37.78	54.00	-16.22	AV	Horizontal
10360.26	39.98	44.50	13.80	38.80	8.10	48.08	68.20	-20.12	Pk	Vertical
10360.26	36.89	44.50	13.80	38.80	8.10	44.99	54.00	-9.01	AV	Vertical
10360.12	38.71	44.50	13.80	38.80	8.10	46.81	68.20	-21.39	Pk	Horizontal
10360.12	36.95	44.50	13.80	38.80	8.10	45.05	54.00	-8.95	AV	Horizontal
11019.06	33.01	43.60	14.30	39.50	10.20	43.21	74.00	-30.79	Pk	Vertical
11019.06	30.59	43.60	14.30	39.50	10.20	40.79	54.00	-13.21	AV	Vertical
11016.46	33.80	43.60	14.30	39.50	10.20	44.00	74.00	-30.00	Pk	Horizontal
11016.46	30.18	43.60	14.30	39.50	10.20	40.38	54.00	-13.62	AV	Horizontal
13288.97	31.86	42.60	15.90	38.90	12.20	44.06	74.00	-29.94	Pk	Vertical
13288.97	29.13	42.60	15.90	38.90	12.20	41.33	54.00	-12.67	AV	Vertical
13287.18	32.63	42.60	15.90	38.90	12.20	44.83	74.00	-29.17	Pk	Horizontal
13287.18	29.50	42.60	15.90	38.90	12.20	41.70	54.00	-12.30	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.



U-NII-2A 5250-5350MHz

U-NII 2A										
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 (802.11ac160/ 5250 MHz)										
3264.54	44.22	44.70	6.70	28.20	-9.80	34.42	74.00	-39.58	Pk	Vertical
3264.54	41.51	44.70	6.70	28.20	-9.80	31.71	54.00	-22.29	AV	Vertical
3265.24	45.05	44.70	6.70	28.20	-9.80	35.25	74.00	-38.75	Pk	Horizontal
3265.24	41.10	44.70	6.70	28.20	-9.80	31.30	54.00	-22.70	AV	Horizontal
3987.78	39.32	44.20	7.90	29.70	-6.60	32.72	74.00	-41.28	Pk	Vertical
3987.78	36.20	44.20	7.90	29.70	-6.60	29.60	54.00	-24.40	AV	Vertical
3993.61	39.85	44.20	7.90	29.70	-6.60	33.25	74.00	-40.75	Pk	Horizontal
3993.61	36.29	44.20	7.90	29.70	-6.60	29.69	54.00	-24.31	AV	Horizontal
7219.15	37.65	43.50	11.40	35.50	3.40	41.05	68.20	-27.15	Pk	Vertical
7219.15	34.56	43.50	11.40	35.50	3.40	37.96	54.00	-16.04	AV	Vertical
7223.81	37.04	43.50	11.40	35.50	3.40	40.44	68.20	-27.76	Pk	Horizontal
7223.81	33.62	43.50	11.40	35.50	3.40	37.02	54.00	-16.98	AV	Horizontal
10360.26	38.81	44.50	13.80	38.80	8.10	46.91	68.20	-21.29	Pk	Vertical
10360.26	36.68	44.50	13.80	38.80	8.10	44.78	54.00	-9.22	AV	Vertical
10359.94	39.30	44.50	13.80	38.80	8.10	47.40	68.20	-20.80	Pk	Horizontal
10359.94	36.01	44.50	13.80	38.80	8.10	44.11	54.00	-9.89	AV	Horizontal
11034.80	33.87	43.60	14.30	39.50	10.20	44.07	74.00	-29.93	Pk	Vertical
11034.80	30.06	43.60	14.30	39.50	10.20	40.26	54.00	-13.74	AV	Vertical
11026.28	32.76	43.60	14.30	39.50	10.20	42.96	74.00	-31.04	Pk	Horizontal
11026.28	30.66	43.60	14.30	39.50	10.20	40.86	54.00	-13.14	AV	Horizontal
13295.84	32.68	42.60	15.90	38.90	12.20	44.88	74.00	-29.12	Pk	Vertical
13295.84	29.92	42.60	15.90	38.90	12.20	42.12	54.00	-11.88	AV	Vertical
13283.29	31.91	42.60	15.90	38.90	12.20	44.11	74.00	-29.89	Pk	Horizontal
13283.29	29.77	42.60	15.90	38.90	12.20	41.97	54.00	-12.03	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.



U-NII-2C 5470-5725MHz

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 (802.11ac40/ 5510 MHz)										
3264.35	45.08	44.70	6.70	28.20	-9.80	35.28	74.00	-38.72	Pk	Vertical
3264.35	42.23	44.70	6.70	28.20	-9.80	32.43	54.00	-21.57	AV	Vertical
3261.29	44.75	44.70	6.70	28.20	-9.80	34.95	74.00	-39.05	Pk	Horizontal
3261.29	41.31	44.70	6.70	28.20	-9.80	31.51	54.00	-22.49	AV	Horizontal
3981.78	38.82	44.20	7.90	29.70	-6.60	32.22	74.00	-41.78	Pk	Vertical
3981.78	36.87	44.20	7.90	29.70	-6.60	30.27	54.00	-23.73	AV	Vertical
3989.99	39.15	44.20	7.90	29.70	-6.60	32.55	74.00	-41.45	Pk	Horizontal
3989.99	35.88	44.20	7.90	29.70	-6.60	29.28	54.00	-24.72	AV	Horizontal
7227.00	37.84	43.50	11.40	35.50	3.40	41.24	68.20	-26.96	Pk	Vertical
7227.00	33.75	43.50	11.40	35.50	3.40	37.15	54.00	-16.85	AV	Vertical
7226.89	36.56	43.50	11.40	35.50	3.40	39.96	68.20	-28.24	Pk	Horizontal
7226.89	34.00	43.50	11.40	35.50	3.40	37.40	54.00	-16.60	AV	Horizontal
10360.31	39.07	44.50	13.80	38.80	8.10	47.17	68.20	-21.03	Pk	Vertical
10360.31	36.90	44.50	13.80	38.80	8.10	45.00	54.00	-9.00	AV	Vertical
10360.27	38.69	44.50	13.80	38.80	8.10	46.79	68.20	-21.41	Pk	Horizontal
10360.27	36.12	44.50	13.80	38.80	8.10	44.22	54.00	-9.78	AV	Horizontal
11027.86	32.91	43.60	14.30	39.50	10.20	43.11	74.00	-30.89	Pk	Vertical
11027.86	29.80	43.60	14.30	39.50	10.20	40.00	54.00	-14.00	AV	Vertical
11031.52	33.84	43.60	14.30	39.50	10.20	44.04	74.00	-29.96	Pk	Horizontal
11031.52	29.73	43.60	14.30	39.50	10.20	39.93	54.00	-14.07	AV	Horizontal
13296.74	32.95	42.60	15.90	38.90	12.20	45.15	74.00	-28.85	Pk	Vertical
13296.74	28.68	42.60	15.90	38.90	12.20	40.88	54.00	-13.12	AV	Vertical
13290.08	31.80	42.60	15.90	38.90	12.20	44.00	74.00	-30.00	Pk	Horizontal
13290.08	28.93	42.60	15.90	38.90	12.20	41.13	54.00	-12.87	AV	Horizontal
Mid Channel (802.11ac40/ 5550 MHz)										
3246.53	44.86	44.70	6.70	28.20	-9.80	35.06	68.20	-33.14	Pk	Vertical
3246.53	41.71	44.70	6.70	28.20	-9.80	31.91	54.00	-22.09	AV	Vertical
3246.61	44.92	44.70	6.70	28.20	-9.80	35.12	68.20	-33.08	Pk	Horizontal
3246.61	42.06	44.70	6.70	28.20	-9.80	32.26	54.00	-21.74	AV	Horizontal
3995.20	38.90	44.20	7.90	29.70	-6.60	32.30	74.00	-41.70	Pk	Vertical
3995.20	36.55	44.20	7.90	29.70	-6.60	29.95	54.00	-24.05	AV	Vertical
3986.95	38.75	44.20	7.90	29.70	-6.60	32.15	74.00	-41.85	Pk	Horizontal
3986.95	36.31	44.20	7.90	29.70	-6.60	29.71	54.00	-24.29	AV	Horizontal
7220.90	37.03	43.50	11.40	35.50	3.40	40.43	68.20	-27.77	Pk	Vertical
7220.90	34.46	43.50	11.40	35.50	3.40	37.86	54.00	-16.14	AV	Vertical
7229.29	36.78	43.50	11.40	35.50	3.40	40.18	68.20	-28.02	Pk	Horizontal
7229.29	34.85	43.50	11.40	35.50	3.40	38.25	54.00	-15.75	AV	Horizontal
10400.32	39.04	44.50	13.80	38.80	8.10	47.14	68.20	-21.06	Pk	Vertical
10400.32	35.73	44.50	13.80	38.80	8.10	43.83	54.00	-10.17	AV	Vertical
10400.00	38.75	44.50	13.80	38.80	8.10	46.85	68.20	-21.35	Pk	Horizontal
10400.00	36.62	44.50	13.80	38.80	8.10	44.72	54.00	-9.28	AV	Horizontal
11024.54	33.35	43.60	14.30	39.50	10.20	43.55	74.00	-30.45	Pk	Vertical
11024.54	30.97	43.60	14.30	39.50	10.20	41.17	54.00	-12.83	AV	Vertical
11021.64	33.53	43.60	14.30	39.50	10.20	43.73	74.00	-30.27	Pk	Horizontal
11021.64	29.85	43.60	14.30	39.50	10.20	40.05	54.00	-13.95	AV	Horizontal
13285.35	31.52	42.60	15.90	38.90	12.20	43.72	74.00	-30.28	Pk	Vertical
13285.35	29.83	42.60	15.90	38.90	12.20	42.03	54.00	-11.97	AV	Vertical
13289.63	32.23	42.60	15.90	38.90	12.20	44.43	74.00	-29.57	Pk	Horizontal
13289.63	28.75	42.60	15.90	38.90	12.20	40.95	54.00	-13.05	AV	Horizontal



High Channel (802.11ac40/ 5670 MHz)										
3246.55	45.07	44.70	6.70	28.20	-9.80	35.27	68.20	-32.93	Pk	Vertical
3246.55	40.93	44.70	6.70	28.20	-9.80	31.13	54.00	-22.87	AV	Vertical
3246.50	44.11	44.70	6.70	28.20	-9.80	34.31	68.20	-33.89	Pk	Horizontal
3246.50	40.87	44.70	6.70	28.20	-9.80	31.07	54.00	-22.93	AV	Horizontal
3992.44	39.21	44.20	7.90	29.70	-6.60	32.61	74.00	-41.39	Pk	Vertical
3992.44	35.71	44.20	7.90	29.70	-6.60	29.11	54.00	-24.89	AV	Vertical
3986.65	39.64	44.20	7.90	29.70	-6.60	33.04	74.00	-40.96	Pk	Horizontal
3986.65	36.35	44.20	7.90	29.70	-6.60	29.75	54.00	-24.25	AV	Horizontal
7230.98	37.54	43.50	11.40	35.50	3.40	40.94	68.20	-27.26	Pk	Vertical
7230.98	33.51	43.50	11.40	35.50	3.40	36.91	54.00	-17.09	AV	Vertical
7235.94	36.70	43.50	11.40	35.50	3.40	40.10	68.20	-28.10	Pk	Horizontal
7235.94	33.60	43.50	11.40	35.50	3.40	37.00	54.00	-17.00	AV	Horizontal
10480.00	40.19	44.50	13.80	38.80	8.10	48.29	68.20	-19.91	Pk	Vertical
10480.00	36.16	44.50	13.80	38.80	8.10	44.26	54.00	-9.74	AV	Vertical
10480.34	39.10	44.50	13.80	38.80	8.10	47.20	68.20	-21.00	Pk	Horizontal
10480.34	36.60	44.50	13.80	38.80	8.10	44.70	54.00	-9.30	AV	Horizontal
11027.47	33.02	43.60	14.30	39.50	10.20	43.22	74.00	-30.78	Pk	Vertical
11027.47	30.32	43.60	14.30	39.50	10.20	40.52	54.00	-13.48	AV	Vertical
11027.44	32.70	43.60	14.30	39.50	10.20	42.90	74.00	-31.10	Pk	Horizontal
11027.44	31.10	43.60	14.30	39.50	10.20	41.30	54.00	-12.70	AV	Horizontal
13296.15	31.97	42.60	15.90	38.90	12.20	44.17	74.00	-29.83	Pk	Vertical
13296.15	29.60	42.60	15.90	38.90	12.20	41.80	54.00	-12.20	AV	Vertical
13288.64	32.56	42.60	15.90	38.90	12.20	44.76	74.00	-29.24	Pk	Horizontal
13288.64	29.10	42.60	15.90	38.90	12.20	41.30	54.00	-12.70	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.



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 (802.11a/ 5745 MHz)										
3257.92	43.83	44.70	6.70	28.20	-9.80	34.03	68.20	-34.17	Pk	Vertical
3257.92	41.18	44.70	6.70	28.20	-9.80	31.38	54.00	-22.62	AV	Vertical
3252.28	43.78	44.70	6.70	28.20	-9.80	33.98	68.20	-34.22	Pk	Horizontal
3252.28	41.14	44.70	6.70	28.20	-9.80	31.34	54.00	-22.66	AV	Horizontal
3985.45	39.35	44.20	7.90	29.70	-6.60	32.75	74.00	-41.25	Pk	Vertical
3985.45	36.09	44.20	7.90	29.70	-6.60	29.49	54.00	-24.51	AV	Vertical
3998.17	38.72	44.20	7.90	29.70	-6.60	32.12	74.00	-41.88	Pk	Horizontal
3998.17	36.41	44.20	7.90	29.70	-6.60	29.81	54.00	-24.19	AV	Horizontal
7230.07	37.11	43.50	11.40	35.50	3.40	40.51	68.20	-27.69	Pk	Vertical
7230.07	34.34	43.50	11.40	35.50	3.40	37.74	54.00	-16.26	AV	Vertical
7227.76	37.70	43.50	11.40	35.50	3.40	41.10	68.20	-27.10	Pk	Horizontal
7227.76	34.11	43.50	11.40	35.50	3.40	37.51	54.00	-16.49	AV	Horizontal
10360.38	39.12	44.50	13.80	38.80	8.10	47.22	68.20	-20.98	Pk	Vertical
10360.38	36.28	44.50	13.80	38.80	8.10	44.38	54.00	-9.62	AV	Vertical
10360.26	38.88	44.50	13.80	38.80	8.10	46.98	68.20	-21.22	Pk	Horizontal
10360.26	35.86	44.50	13.80	38.80	8.10	43.96	54.00	-10.04	AV	Horizontal
11033.47	33.53	43.60	14.30	39.50	10.20	43.73	74.00	-30.27	Pk	Vertical
11033.47	30.26	43.60	14.30	39.50	10.20	40.46	54.00	-13.54	AV	Vertical
11027.17	33.93	43.60	14.30	39.50	10.20	44.13	74.00	-29.87	Pk	Horizontal
11027.17	30.20	43.60	14.30	39.50	10.20	40.40	54.00	-13.60	AV	Horizontal
13286.43	32.26	42.60	15.90	38.90	12.20	44.46	74.00	-29.54	Pk	Vertical
13286.43	29.36	42.60	15.90	38.90	12.20	41.56	54.00	-12.44	AV	Vertical
13296.14	32.07	42.60	15.90	38.90	12.20	44.27	74.00	-29.73	Pk	Horizontal
13296.14	29.47	42.60	15.90	38.90	12.20	41.67	54.00	-12.33	AV	Horizontal
Mid Channel (802.11a/ 5785MHz)										
3258.26	43.89	44.70	6.70	28.20	-9.80	34.09	68.20	-34.11	Pk	Vertical
3258.26	41.12	44.70	6.70	28.20	-9.80	31.32	54.00	-22.68	AV	Vertical
3247.72	43.86	44.70	6.70	28.20	-9.80	34.06	68.20	-34.14	Pk	Horizontal
3247.72	41.54	44.70	6.70	28.20	-9.80	31.74	54.00	-22.26	AV	Horizontal
3987.56	39.47	44.20	7.90	29.70	-6.60	32.87	74.00	-41.13	Pk	Vertical
3987.56	37.01	44.20	7.90	29.70	-6.60	30.41	54.00	-23.59	AV	Vertical
3990.78	39.88	44.20	7.90	29.70	-6.60	33.28	74.00	-40.72	Pk	Horizontal
3990.78	36.97	44.20	7.90	29.70	-6.60	30.37	54.00	-23.63	AV	Horizontal
7217.84	37.33	43.50	11.40	35.50	3.40	40.73	68.20	-27.47	Pk	Vertical
7217.84	34.59	43.50	11.40	35.50	3.40	37.99	54.00	-16.01	AV	Vertical
7221.90	37.21	43.50	11.40	35.50	3.40	40.61	68.20	-27.59	Pk	Horizontal
7221.90	34.02	43.50	11.40	35.50	3.40	37.42	54.00	-16.58	AV	Horizontal
10400.04	39.60	44.50	13.80	38.80	8.10	47.70	68.20	-20.50	Pk	Vertical
10400.04	36.22	44.50	13.80	38.80	8.10	44.32	54.00	-9.68	AV	Vertical
10400.06	38.71	44.50	13.80	38.80	8.10	46.81	68.20	-21.39	Pk	Horizontal
10400.06	36.56	44.50	13.80	38.80	8.10	44.66	54.00	-9.34	AV	Horizontal
11026.39	33.38	43.60	14.30	39.50	10.20	43.58	74.00	-30.42	Pk	Vertical
11026.39	29.84	43.60	14.30	39.50	10.20	40.04	54.00	-13.96	AV	Vertical
11035.20	32.94	43.60	14.30	39.50	10.20	43.14	74.00	-30.86	Pk	Horizontal
11035.20	30.81	43.60	14.30	39.50	10.20	41.01	54.00	-12.99	AV	Horizontal
13282.35	32.47	42.60	15.90	38.90	12.20	44.67	74.00	-29.33	Pk	Vertical
13282.35	29.01	42.60	15.90	38.90	12.20	41.21	54.00	-12.79	AV	Vertical
13293.85	32.66	42.60	15.90	38.90	12.20	44.86	74.00	-29.14	Pk	Horizontal
13293.85	29.68	42.60	15.90	38.90	12.20	41.88	54.00	-12.12	AV	Horizontal



High Channel (802.11a/ 5825 MHz)										
3261.15	43.80	44.70	6.70	28.20	-9.80	34.00	74.00	-40.00	Pk	Vertical
3261.15	41.28	44.70	6.70	28.20	-9.80	31.48	54.00	-22.52	AV	Vertical
3245.60	45.24	44.70	6.70	28.20	-9.80	35.44	68.20	-32.76	Pk	Horizontal
3245.60	41.21	44.70	6.70	28.20	-9.80	31.41	54.00	-22.59	AV	Horizontal
3981.85	40.08	44.20	7.90	29.70	-6.60	33.48	74.00	-40.52	Pk	Vertical
3981.85	37.13	44.20	7.90	29.70	-6.60	30.53	54.00	-23.47	AV	Vertical
3993.30	40.03	44.20	7.90	29.70	-6.60	33.43	74.00	-40.57	Pk	Horizontal
3993.30	36.76	44.20	7.90	29.70	-6.60	30.16	54.00	-23.84	AV	Horizontal
7220.51	37.19	43.50	11.40	35.50	3.40	40.59	68.20	-27.61	Pk	Vertical
7220.51	34.70	43.50	11.40	35.50	3.40	38.10	54.00	-15.90	AV	Vertical
7226.51	36.59	43.50	11.40	35.50	3.40	39.99	68.20	-28.21	Pk	Horizontal
7226.51	34.89	43.50	11.40	35.50	3.40	38.29	54.00	-15.71	AV	Horizontal
10479.99	39.51	44.50	13.80	38.80	8.10	47.61	68.20	-20.59	Pk	Vertical
10479.99	37.02	44.50	13.80	38.80	8.10	45.12	54.00	-8.88	AV	Vertical
10480.05	39.48	44.50	13.80	38.80	8.10	47.58	68.20	-20.62	Pk	Horizontal
10480.05	36.70	44.50	13.80	38.80	8.10	44.80	54.00	-9.20	AV	Horizontal
11017.94	33.63	43.60	14.30	39.50	10.20	43.83	74.00	-30.17	Pk	Vertical
11017.94	31.07	43.60	14.30	39.50	10.20	41.27	54.00	-12.73	AV	Vertical
11034.62	33.62	43.60	14.30	39.50	10.20	43.82	74.00	-30.18	Pk	Horizontal
11034.62	30.38	43.60	14.30	39.50	10.20	40.58	54.00	-13.42	AV	Horizontal
13299.28	32.99	42.60	15.90	38.90	12.20	45.19	74.00	-28.81	Pk	Vertical
13299.28	28.64	42.60	15.90	38.90	12.20	40.84	54.00	-13.16	AV	Vertical
13293.89	31.75	42.60	15.90	38.90	12.20	43.95	74.00	-30.05	Pk	Horizontal
13293.89	29.99	42.60	15.90	38.90	12.20	42.19	54.00	-11.81	AV	Horizontal

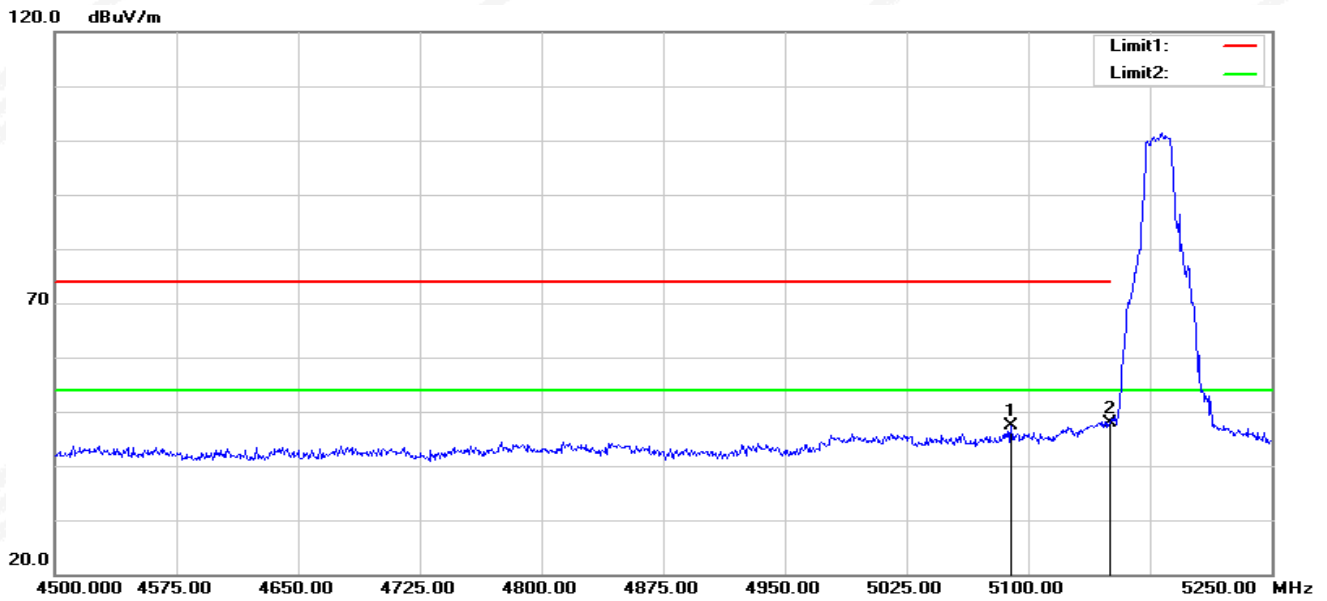
Remark:

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.

3.2.9 RESTRICTED FREQUENCY BANDS AND BAND EDGE

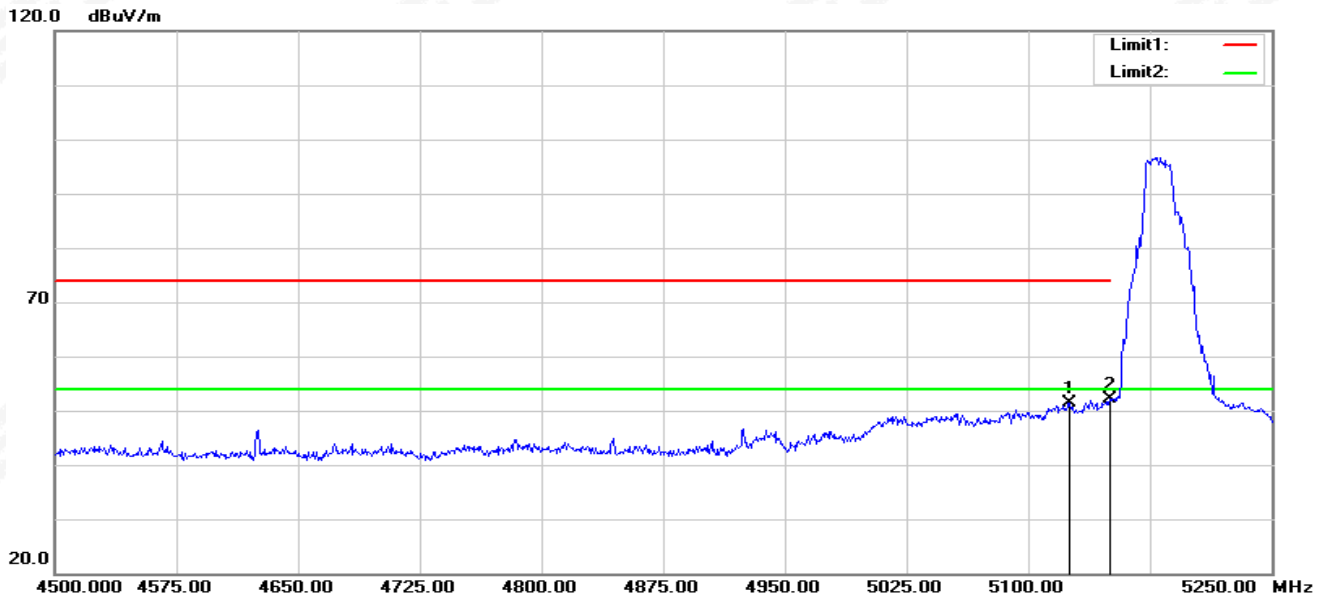
U-NII-1 5150-5250MHz

802.11ax20-L-H



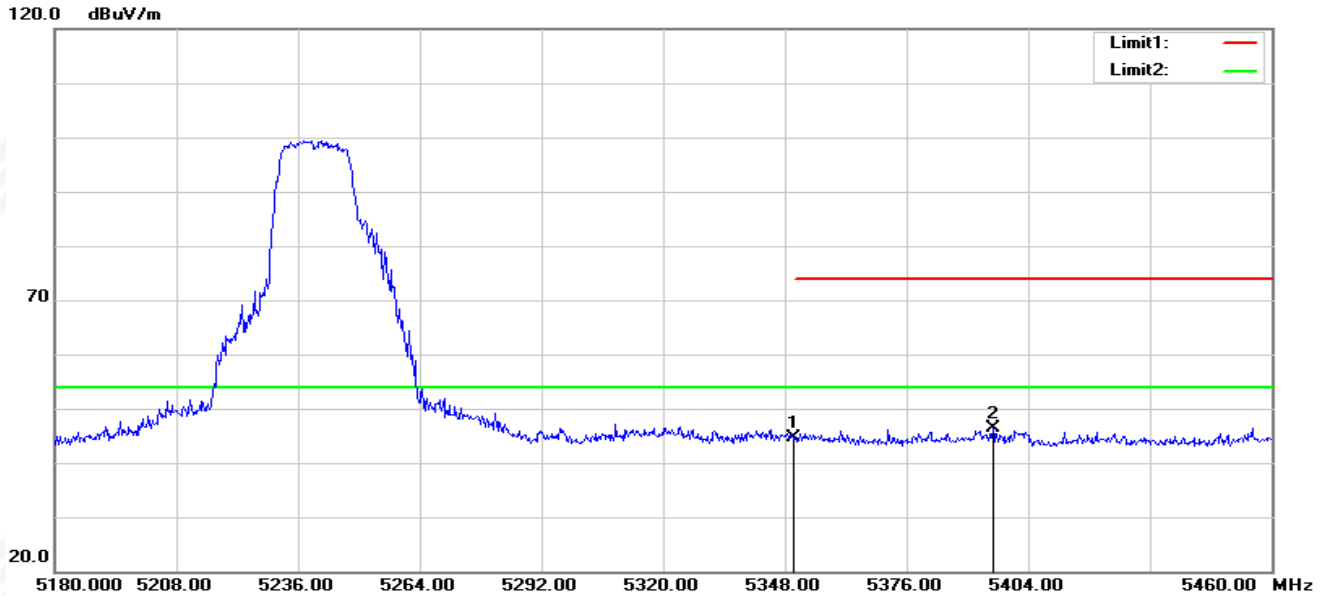
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5089.500	53.16	-5.79	47.37	74.00	-26.63	peak
2	5150.000	53.51	-5.73	47.78	74.00	-26.22	peak

802.11ax20-L-V



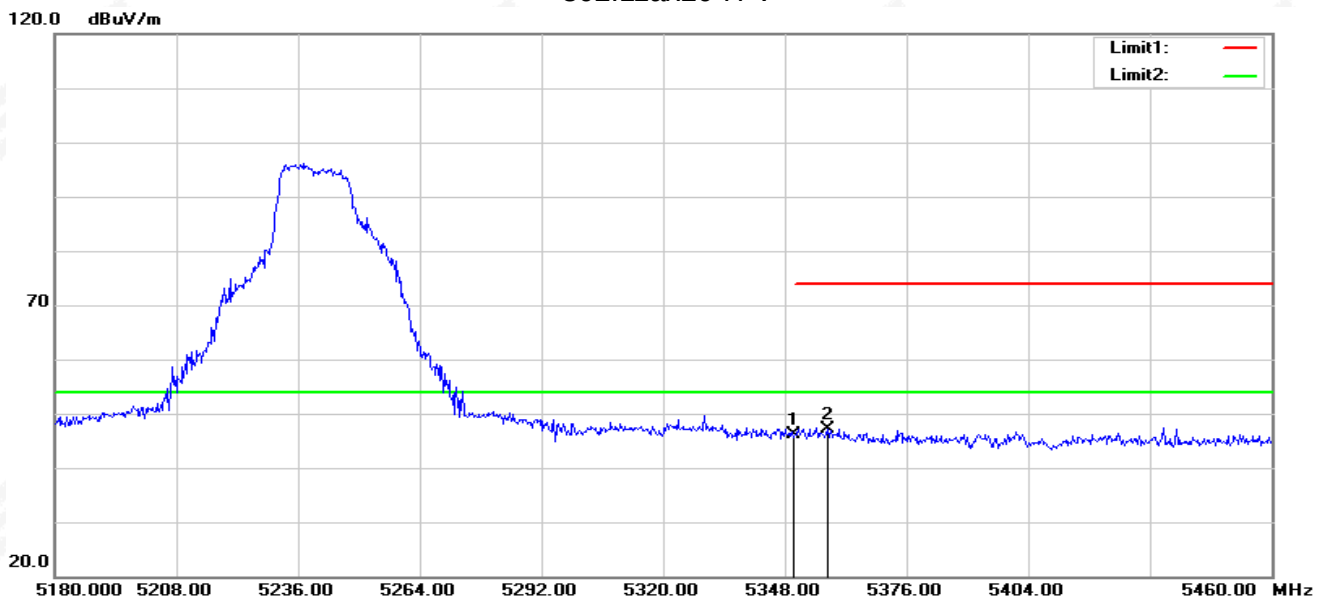
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5125.500	57.19	-5.74	51.45	74.00	-22.55	peak
2	5150.000	57.94	-5.73	52.21	74.00	-21.79	peak

802.11ax20-H-H



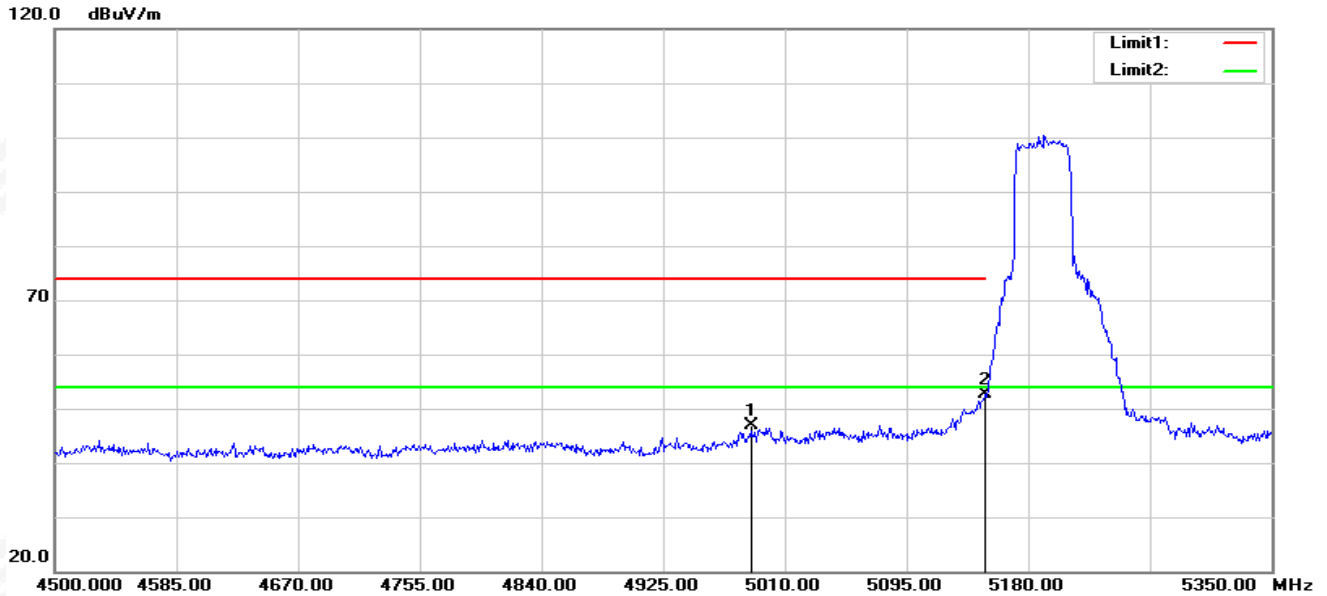
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	49.94	-5.23	44.71	74.00	-29.29	peak
2	5395.880	51.56	-5.25	46.31	74.00	-27.69	peak

802.11ax20-H-V



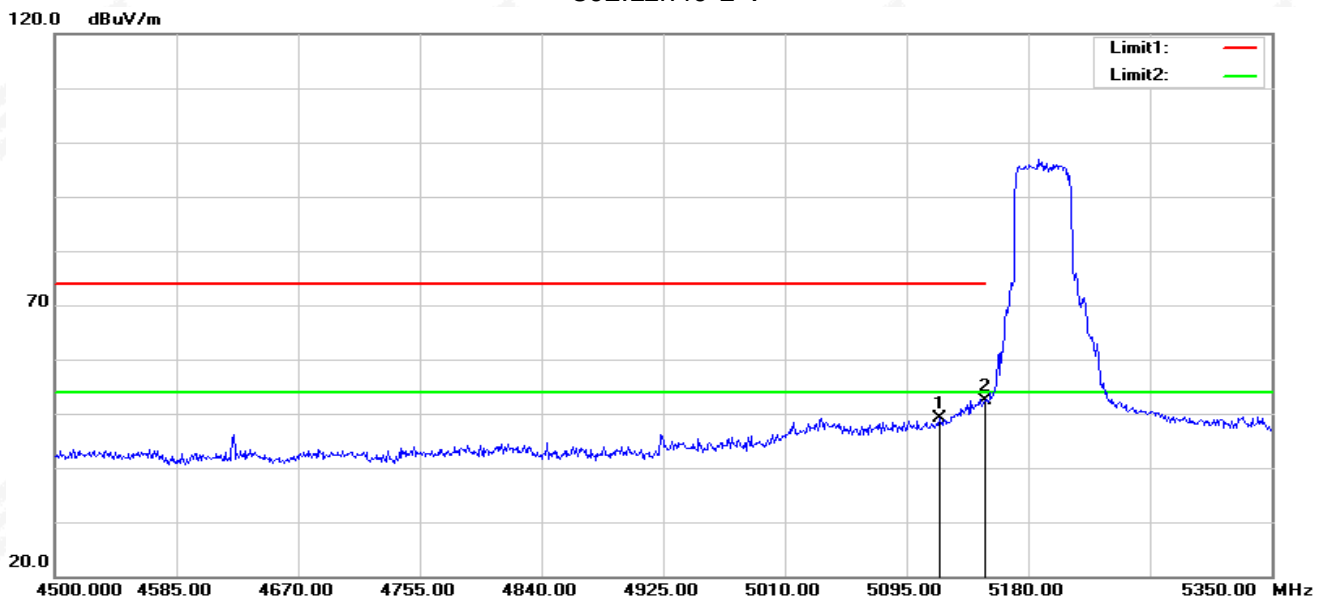
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	51.36	-5.23	46.13	74.00	-27.87	peak
2	5357.800	52.32	-5.23	47.09	74.00	-26.91	peak

802.11n40-L-H



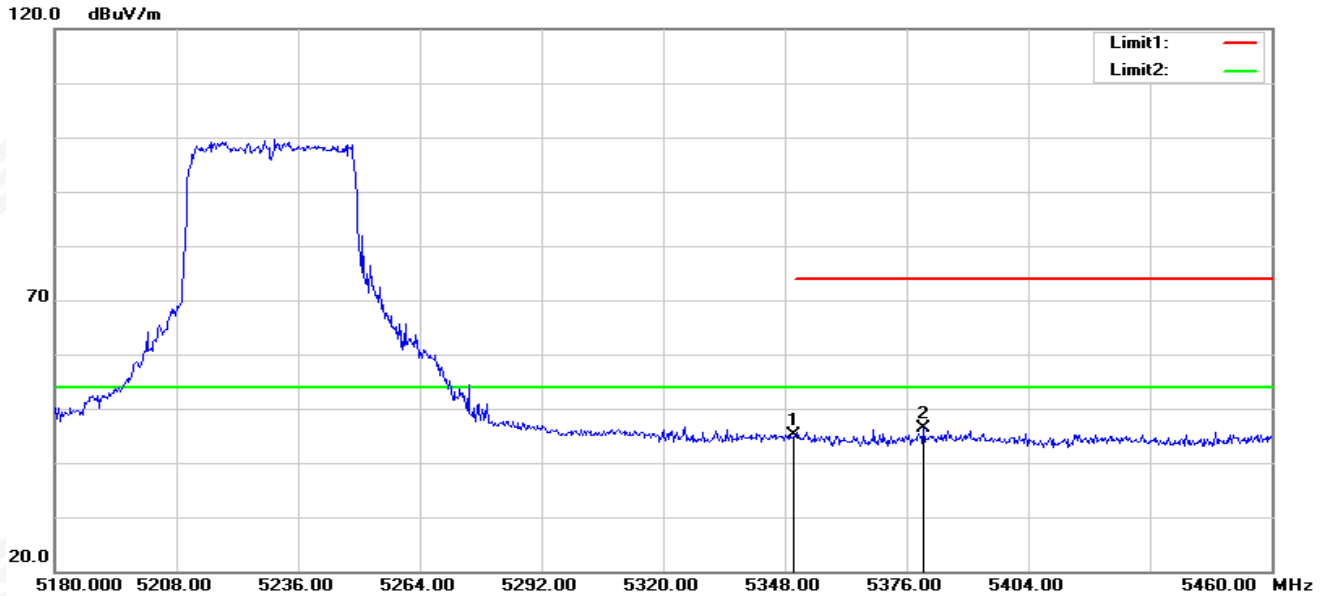
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4986.200	53.08	-6.28	46.80	74.00	-27.20	peak
2	5150.000	58.29	-5.73	52.56	74.00	-21.44	peak

802.11n40-L-V



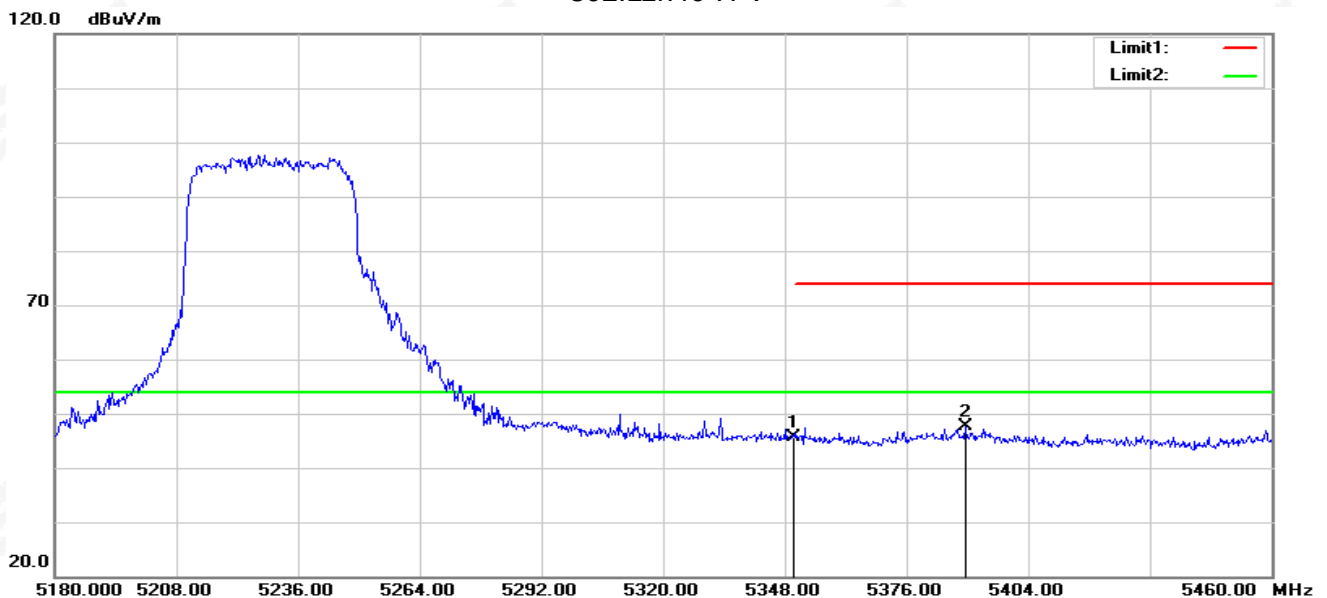
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5117.950	54.79	-5.74	49.05	74.00	-24.95	peak
2	5150.000	58.09	-5.73	52.36	74.00	-21.64	peak

802.11n40-H-H



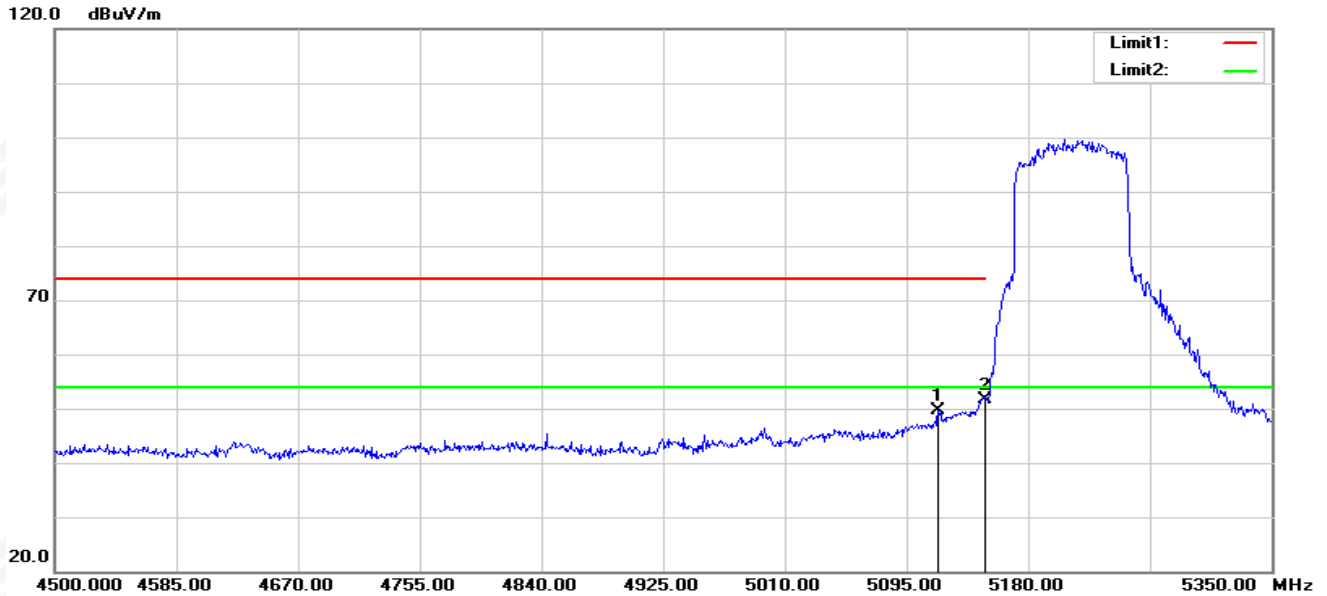
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	50.39	-5.23	45.16	74.00	-28.84	peak
2	5379.920	51.69	-5.25	46.44	74.00	-27.56	peak

802.11n40-H-V



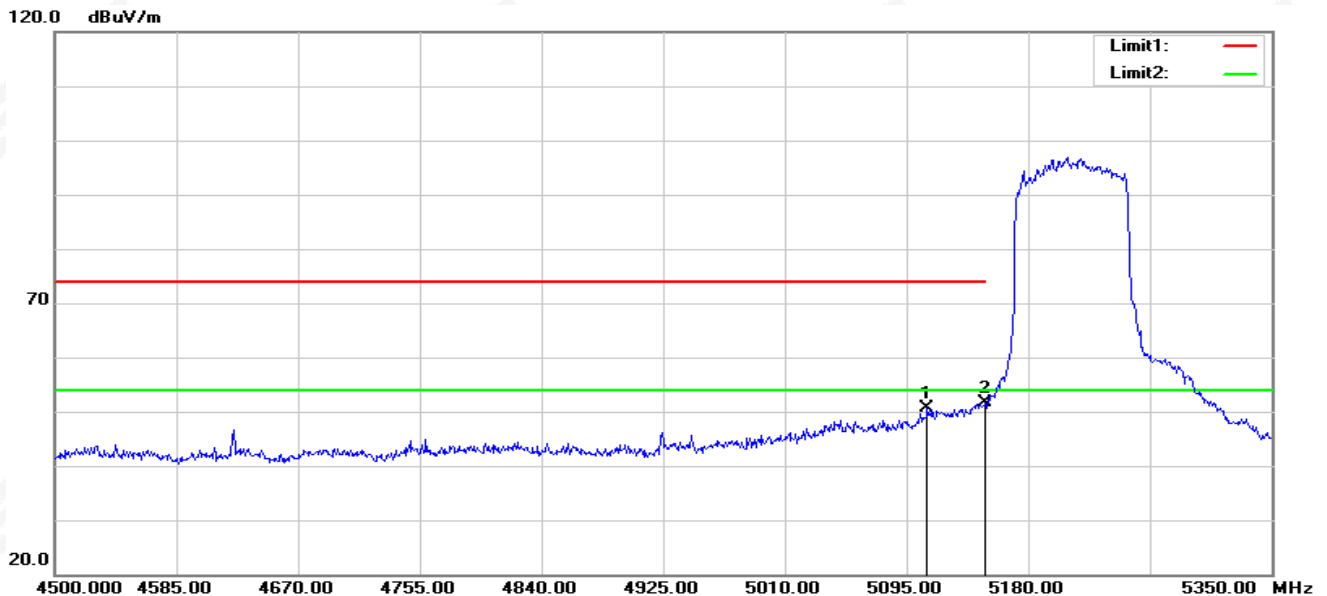
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	50.77	-5.23	45.54	74.00	-28.46	peak
2	5389.440	52.85	-5.25	47.60	74.00	-26.40	peak

802.11ac80-L-H



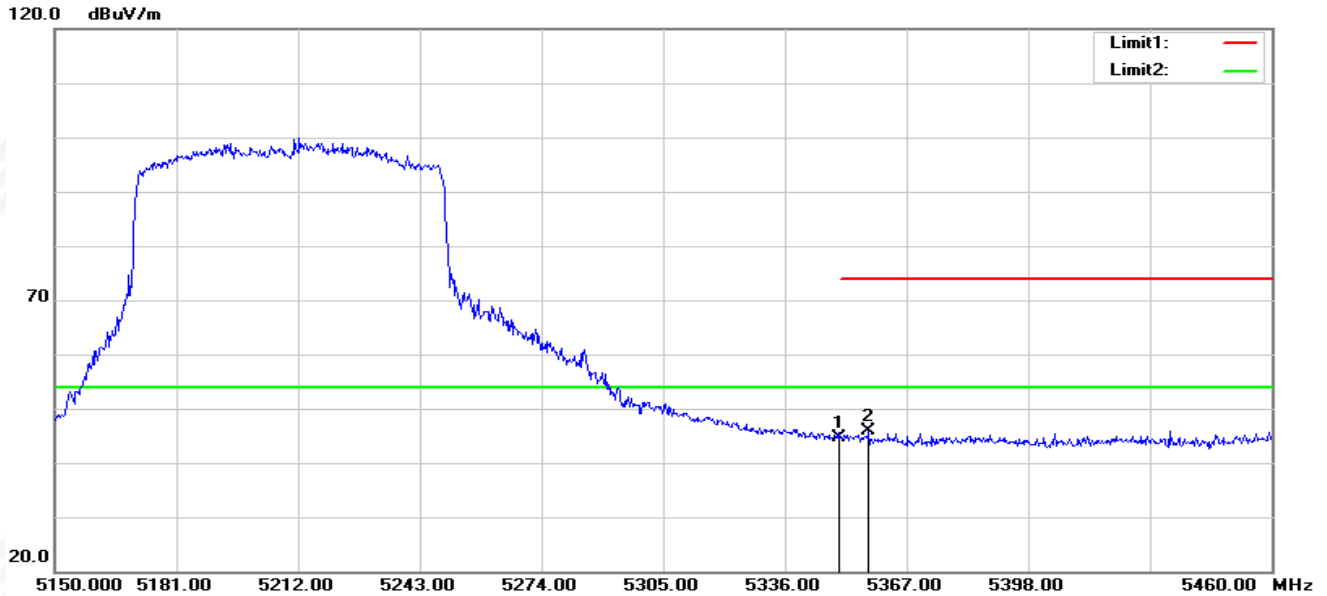
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5117.100	55.48	-5.74	49.74	74.00	-24.26	peak
2	5150.000	57.26	-5.73	51.53	74.00	-22.47	peak

802.11ac80-L-V



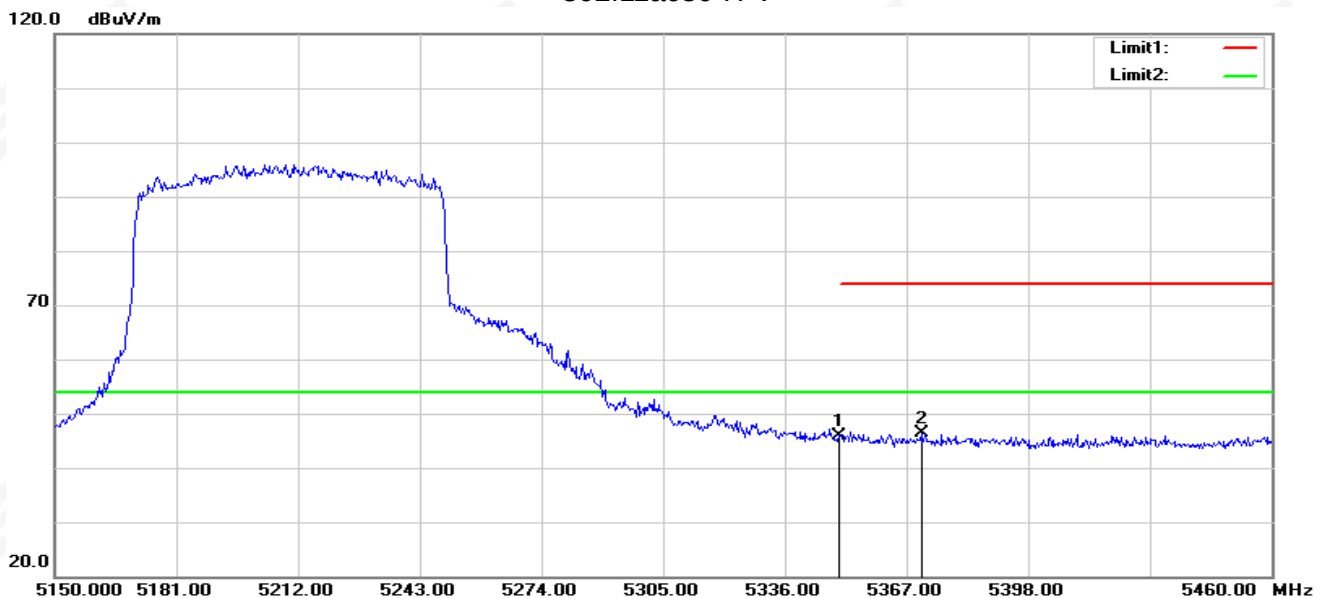
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5109.450	56.33	-5.74	50.59	74.00	-23.41	peak
2	5150.000	57.41	-5.73	51.68	74.00	-22.32	peak

802.11ac80-H-H



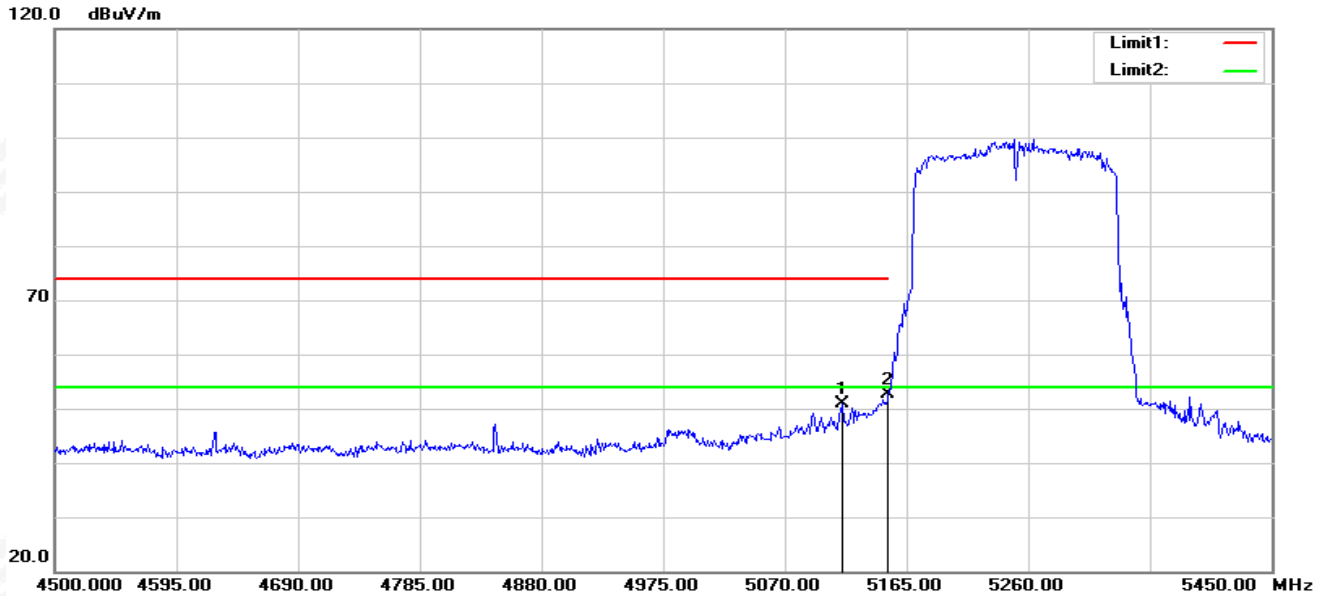
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	49.87	-5.23	44.64	74.00	-29.36	peak
2	5357.390	51.01	-5.23	45.78	74.00	-28.22	peak

802.11ac80-H-V



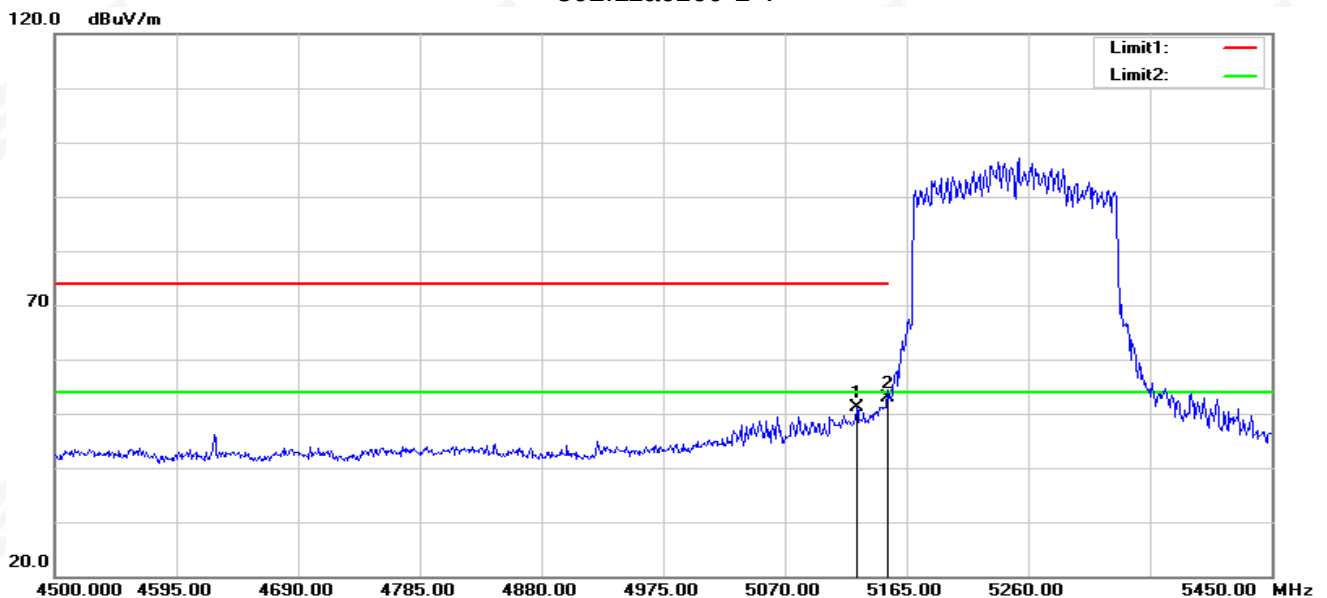
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	51.17	-5.23	45.94	74.00	-28.06	peak
2	5370.720	51.65	-5.23	46.42	74.00	-27.58	peak

802.11ac160-L-H



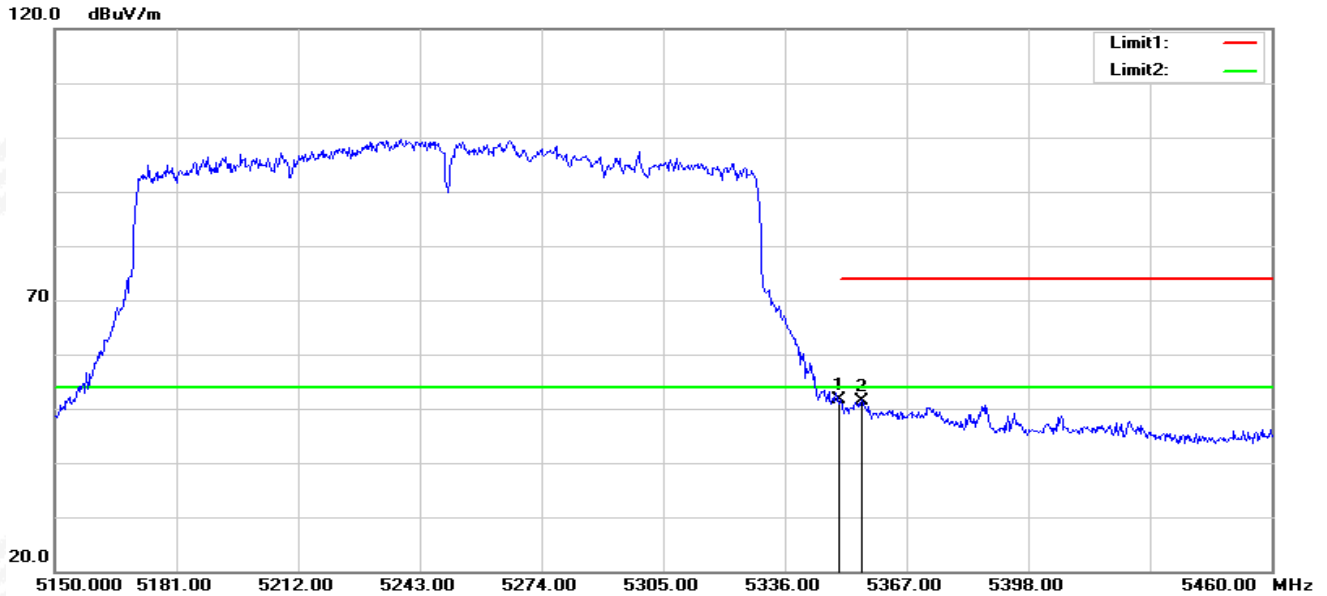
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5114.650	56.52	-5.74	50.78	74.00	-23.22	peak
2	5150.000	58.27	-5.73	52.54	74.00	-21.46	peak

802.11ac160-L-V



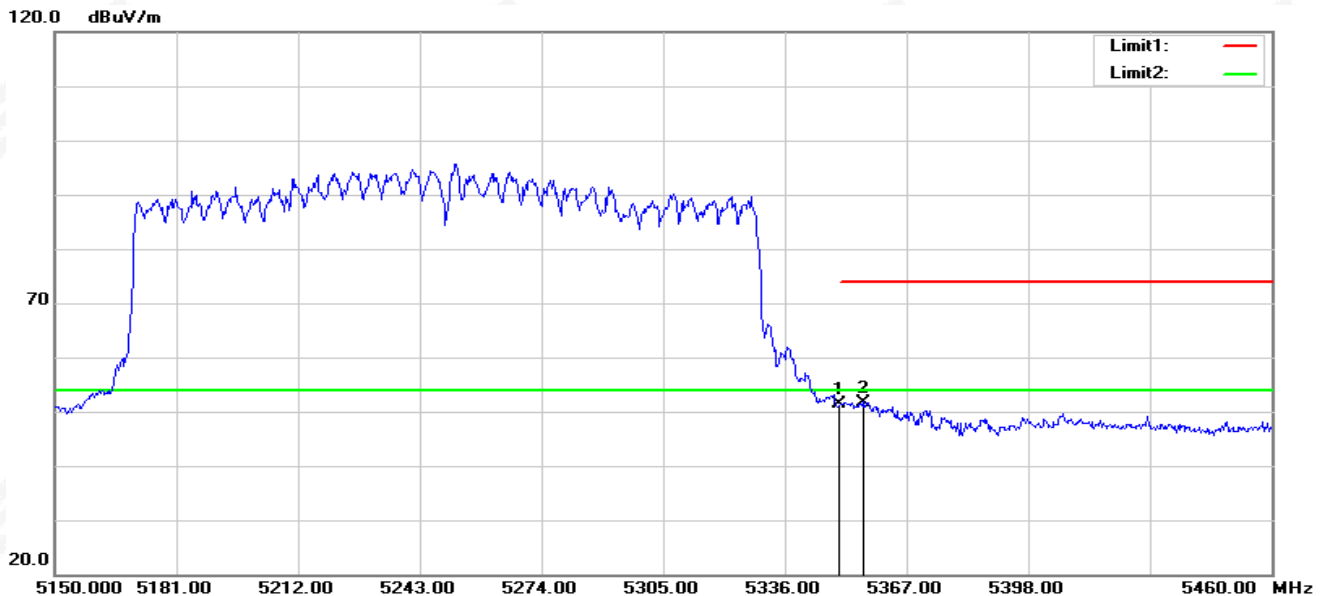
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5126.050	56.87	-5.74	51.13	74.00	-22.87	peak
2	5150.000	58.64	-5.73	52.91	74.00	-21.09	peak

802.11ac160-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	56.90	-5.23	51.67	74.00	-22.33	peak
2	5355.530	56.74	-5.24	51.50	74.00	-22.50	peak

802.11ac160-H-V

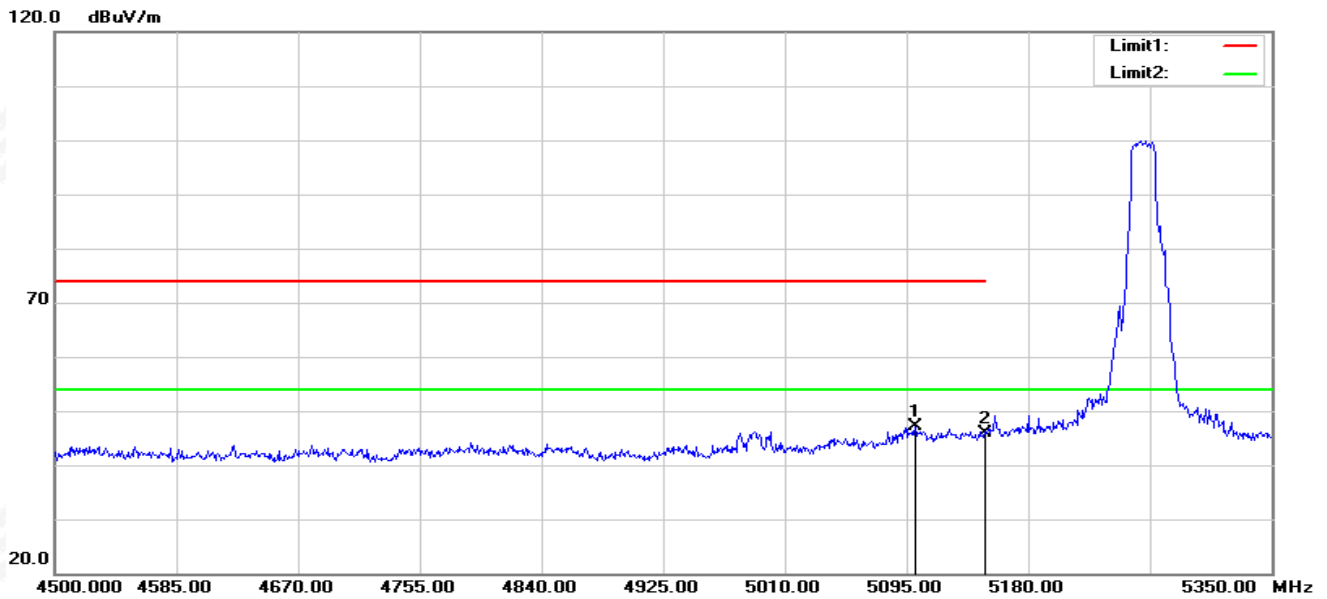


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	56.70	-5.23	51.47	74.00	-22.53	peak
2	5356.150	56.99	-5.24	51.75	74.00	-22.25	peak

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

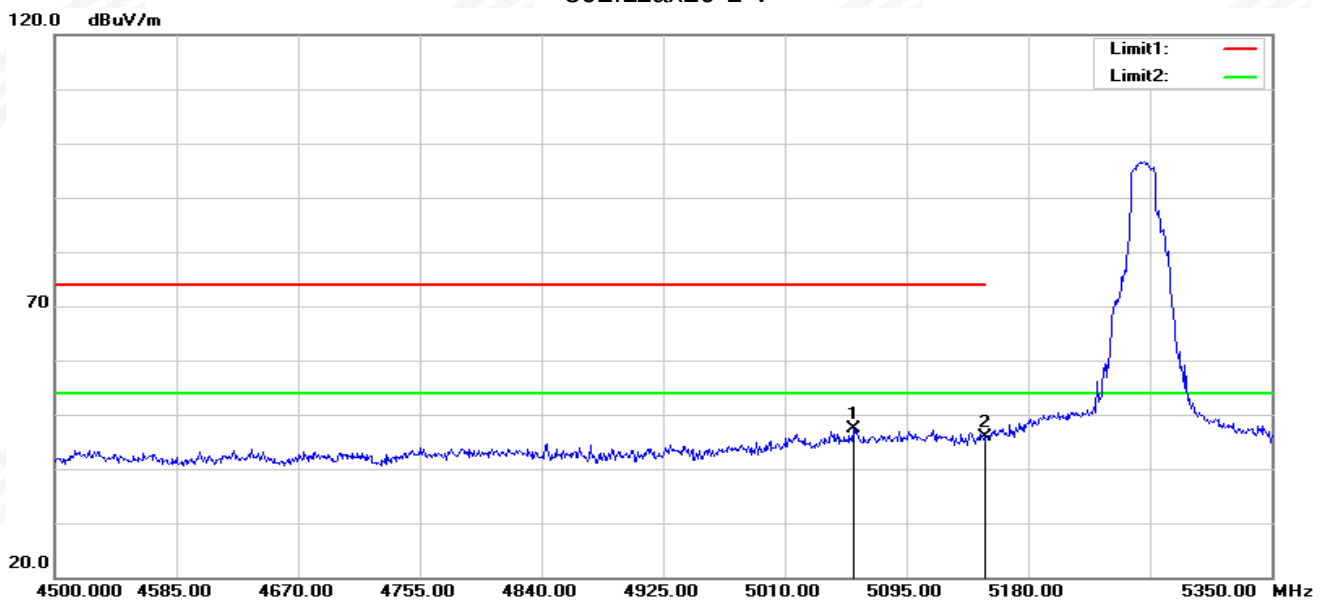
U-NII-2A 5250-5350MHz

802.11ax20-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5100.950	52.86	-5.74	47.12	74.00	-26.88	peak
2	5150.000	51.53	-5.73	45.80	74.00	-28.20	peak

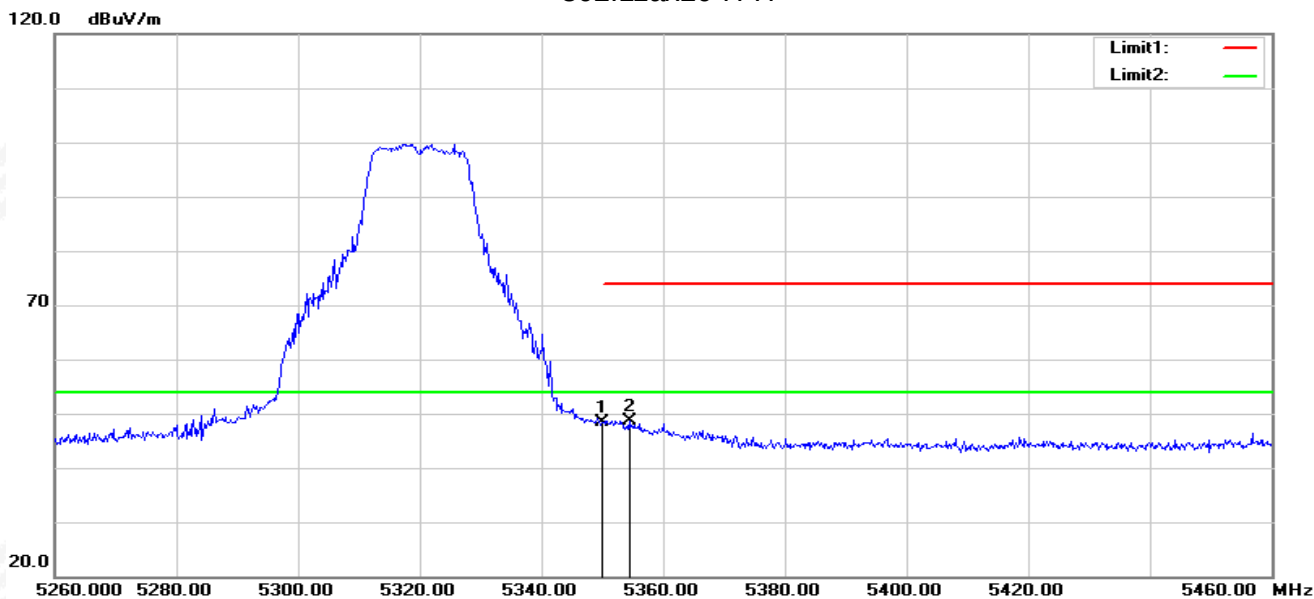
802.11ax20-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5057.600	53.30	-5.93	47.37	74.00	-26.63	peak
2	5150.000	51.50	-5.73	45.77	74.00	-28.23	peak

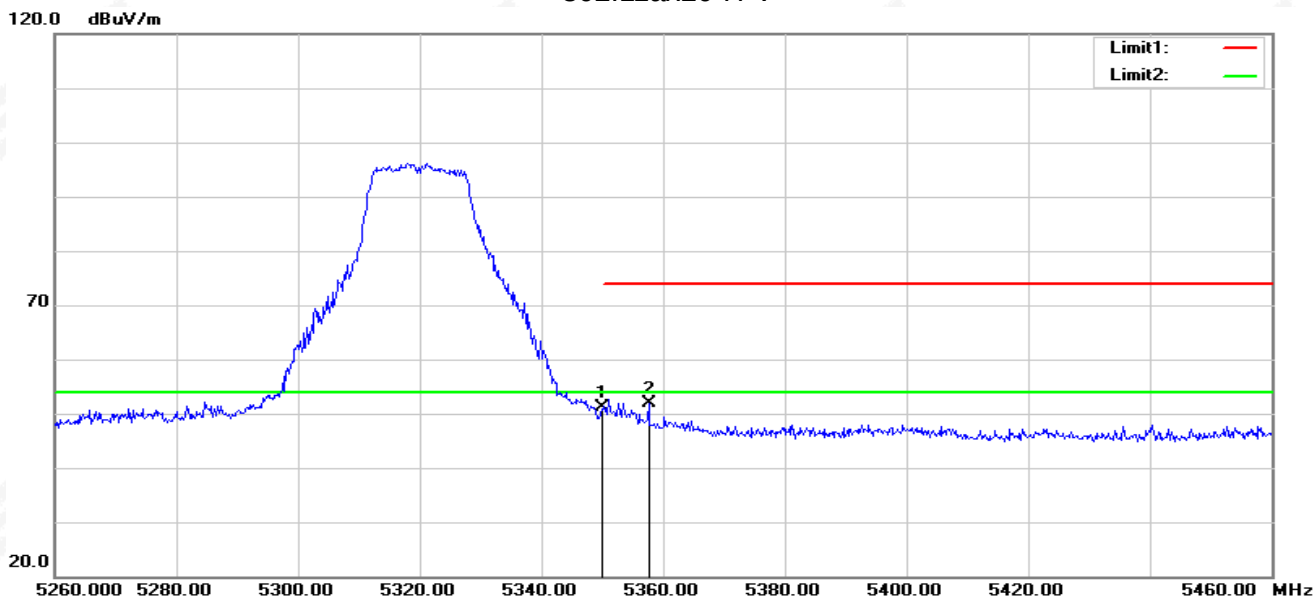


802.11ax20-H-H



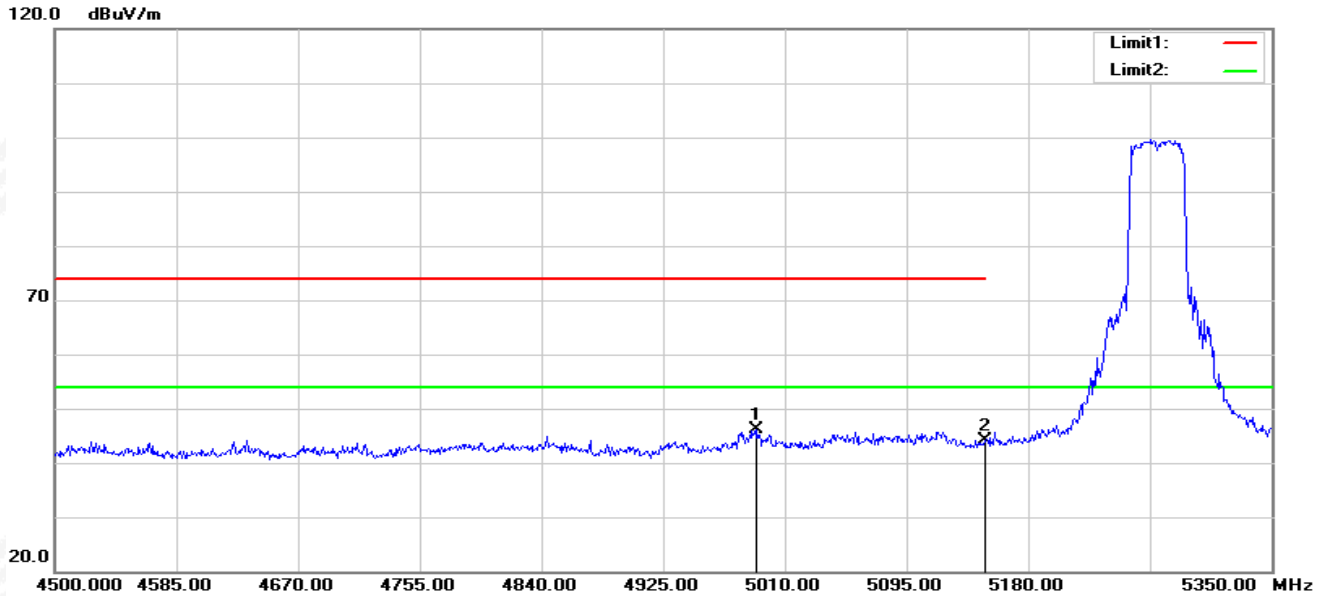
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	53.56	-5.23	48.33	74.00	-25.67	peak
2	5354.400	53.77	-5.24	48.53	74.00	-25.47	peak

802.11ax20-H-V



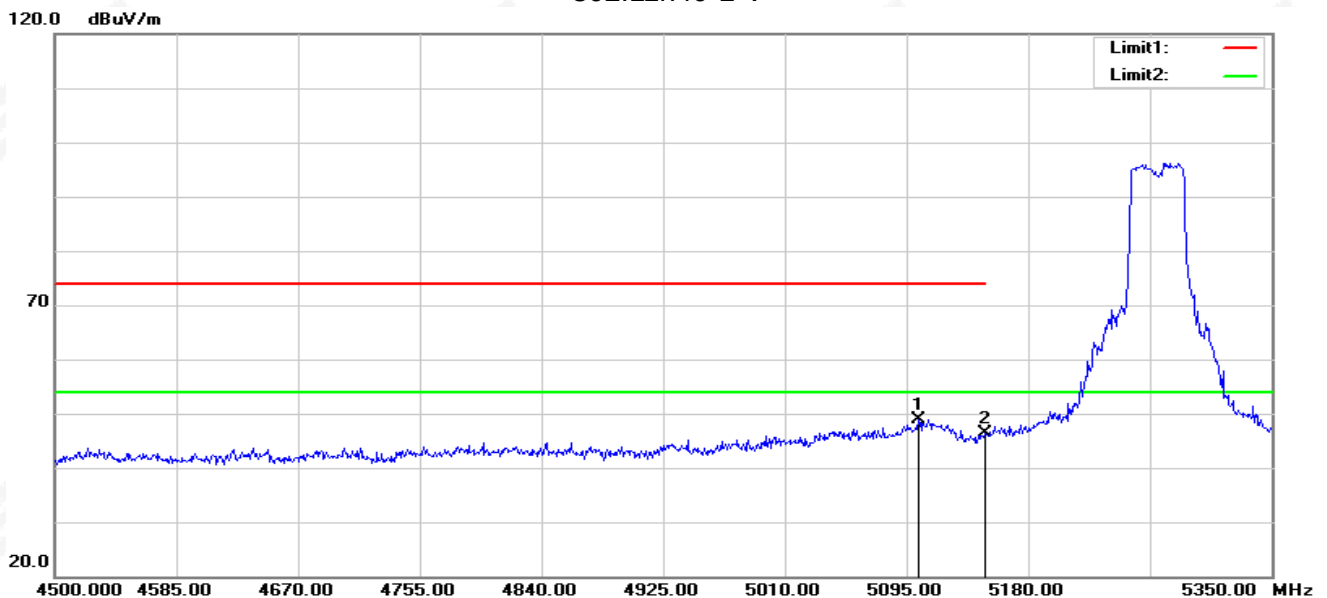
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	56.28	-5.23	51.05	74.00	-22.95	peak
2	5357.600	57.06	-5.23	51.83	74.00	-22.17	peak

802.11n40-L-H



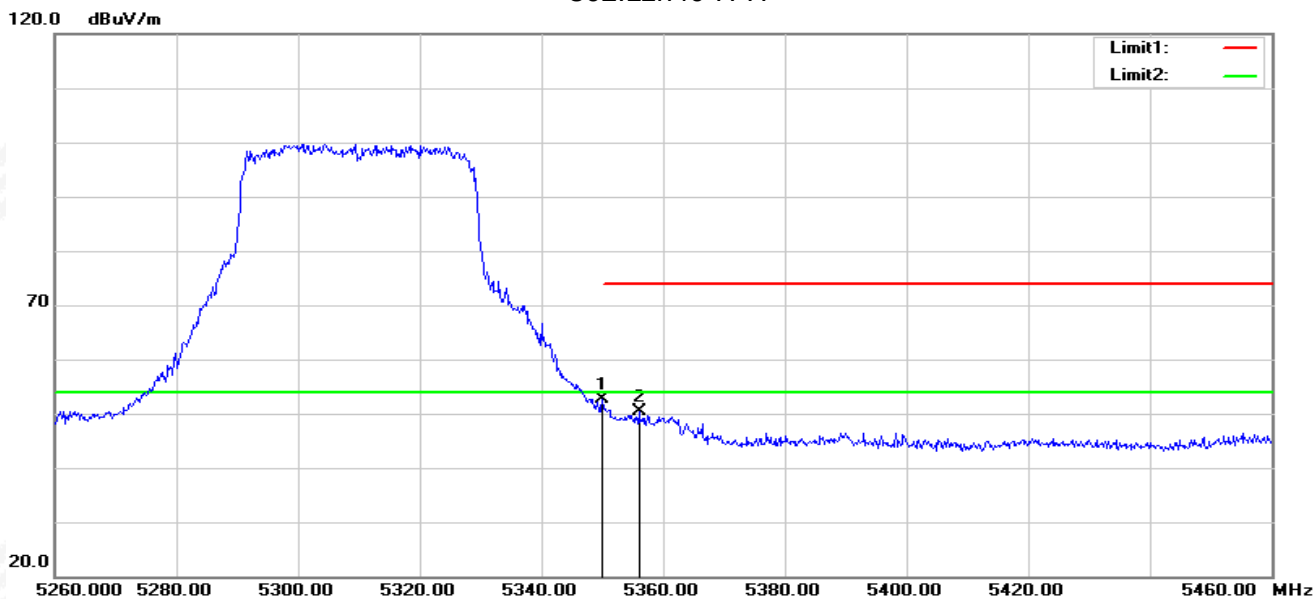
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4990.450	52.43	-6.25	46.18	74.00	-27.82	peak
2	5150.000	49.97	-5.73	44.24	74.00	-29.76	peak

802.11n40-L-V



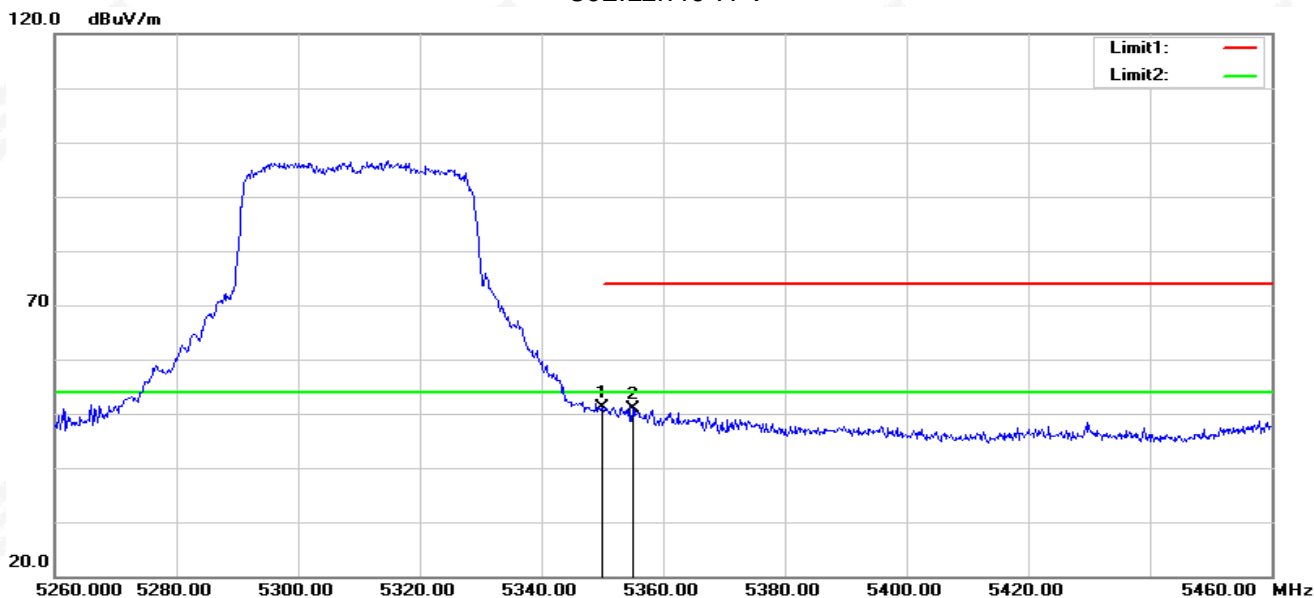
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5103.500	54.67	-5.74	48.93	74.00	-25.07	peak
2	5150.000	52.08	-5.73	46.35	74.00	-27.65	peak

802.11n40-H-H



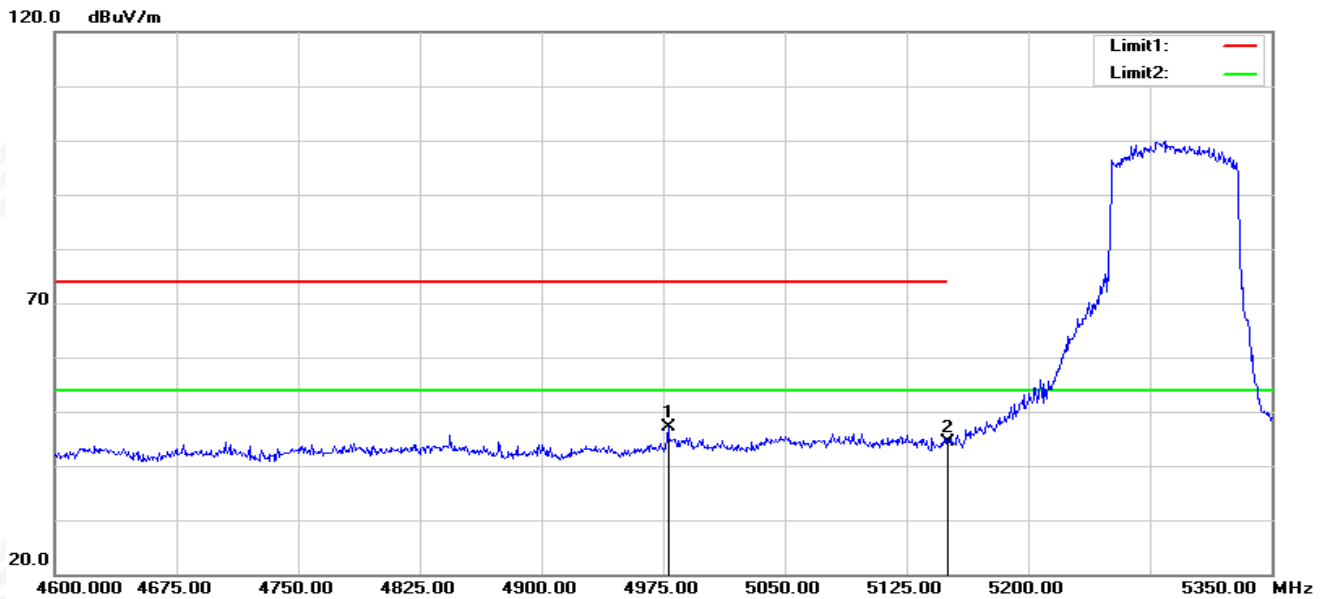
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	57.95	-5.23	52.72	74.00	-21.28	peak
2	5356.000	55.65	-5.24	50.41	74.00	-23.59	peak

802.11n40-H-V



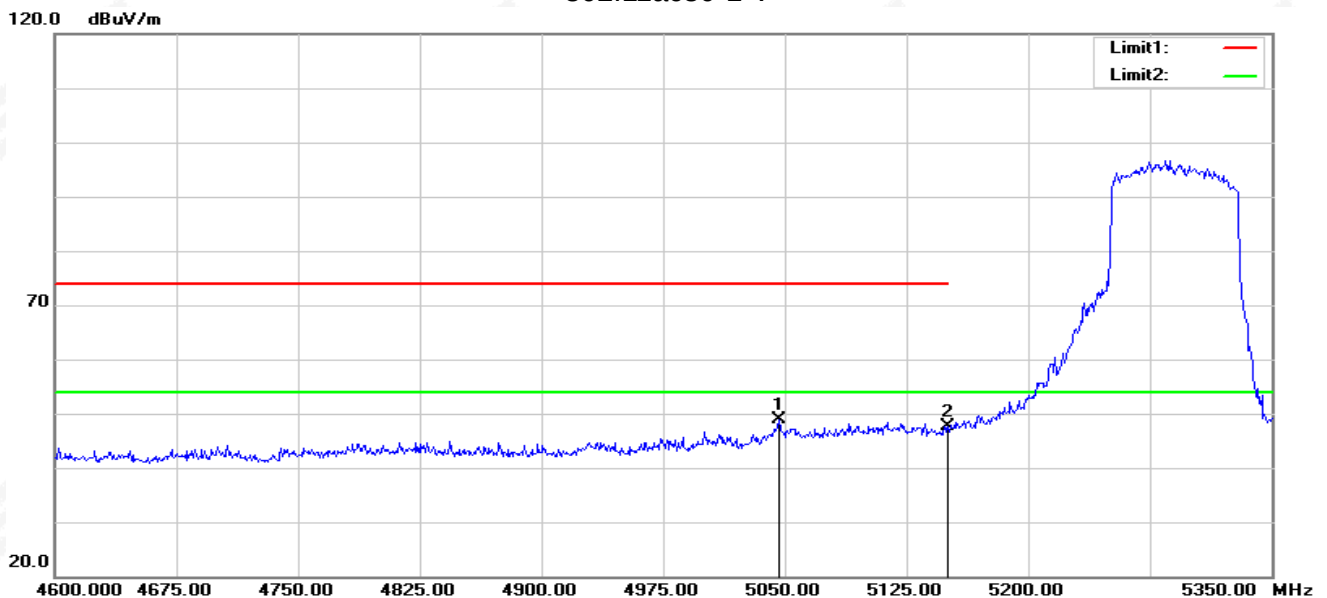
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	56.35	-5.23	51.12	74.00	-22.88	peak
2	5355.000	56.23	-5.24	50.99	74.00	-23.01	peak

802.11ac80-L-H



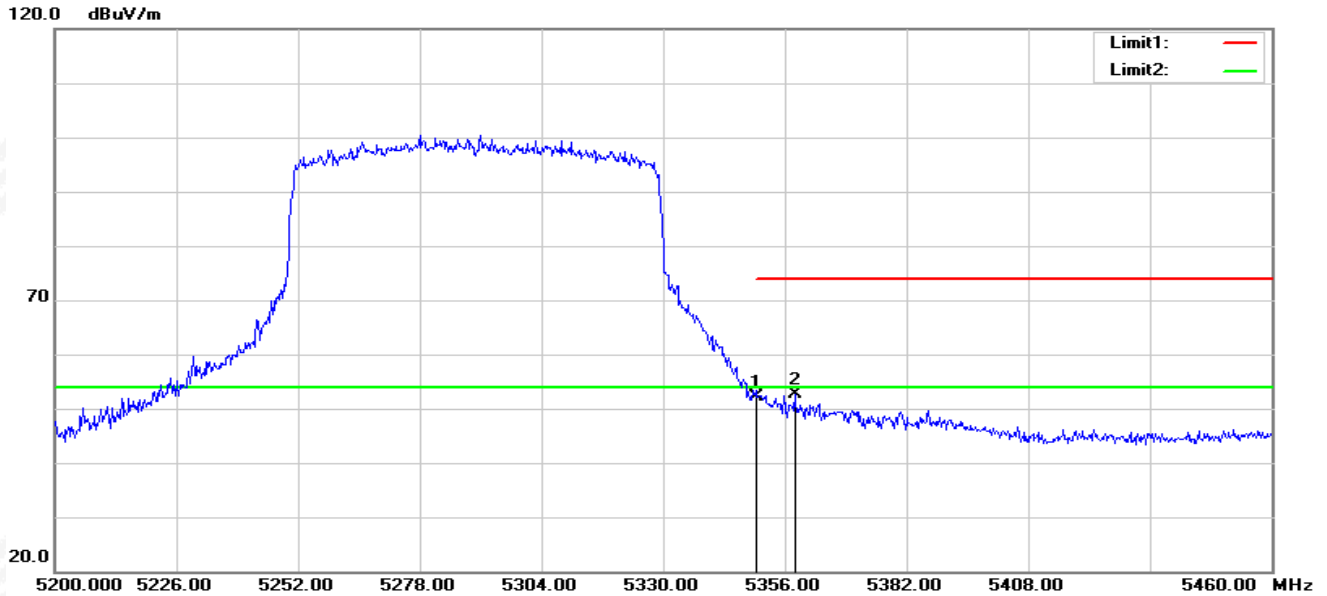
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4978.000	53.57	-6.33	47.24	74.00	-26.76	peak
2	5150.000	50.11	-5.73	44.38	74.00	-29.62	peak

802.11ac80-L-V



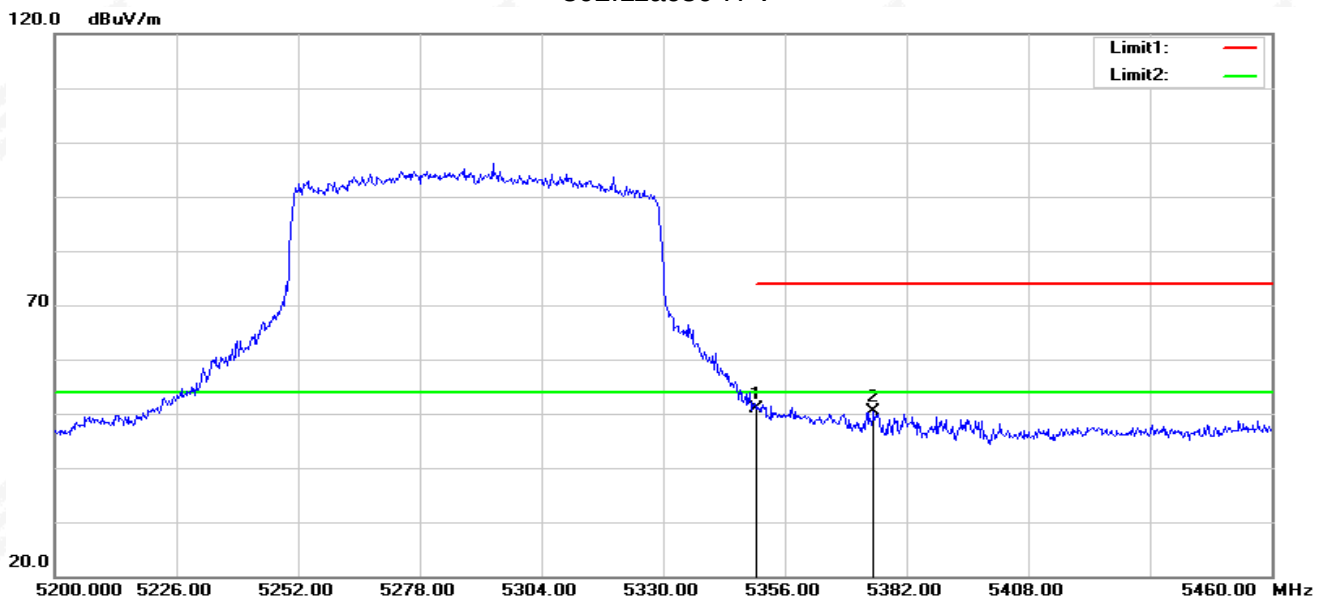
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5046.250	54.88	-5.98	48.90	74.00	-25.10	peak
2	5150.000	53.28	-5.73	47.55	74.00	-26.45	peak

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	57.40	-5.23	52.17	74.00	-21.83	peak
2	5358.080	57.94	-5.23	52.71	74.00	-21.29	peak

802.11ac80-H-V

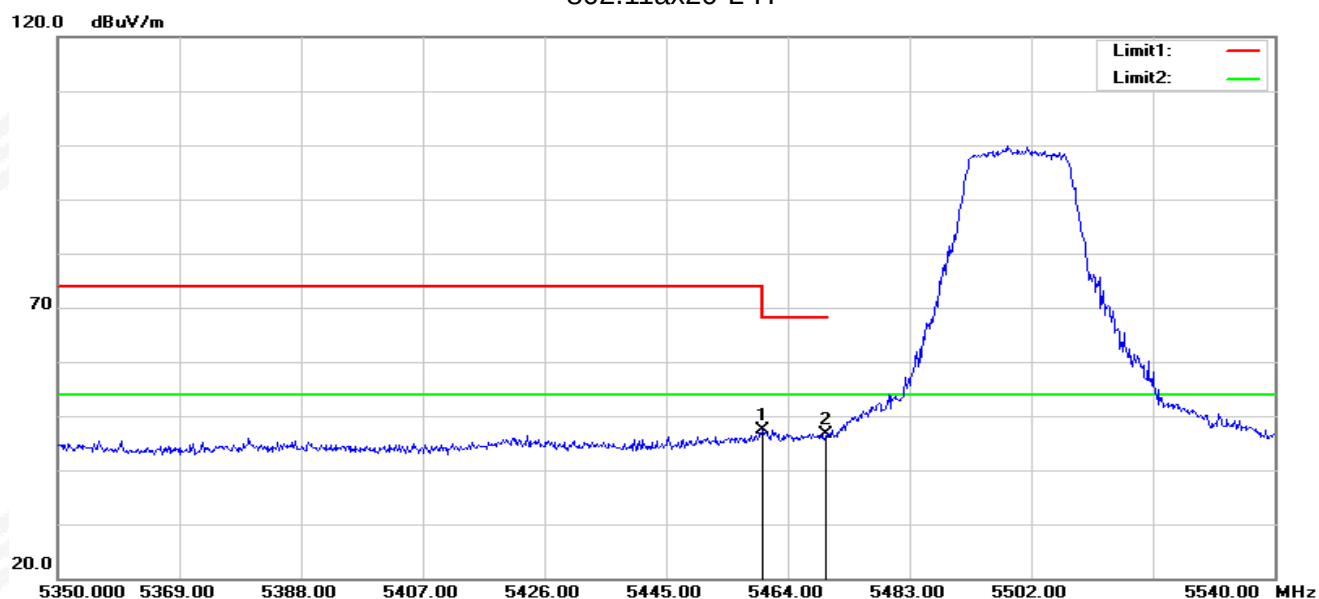


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	56.20	-5.23	50.97	74.00	-23.03	peak
2	5374.980	55.54	-5.24	50.30	74.00	-23.70	peak

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

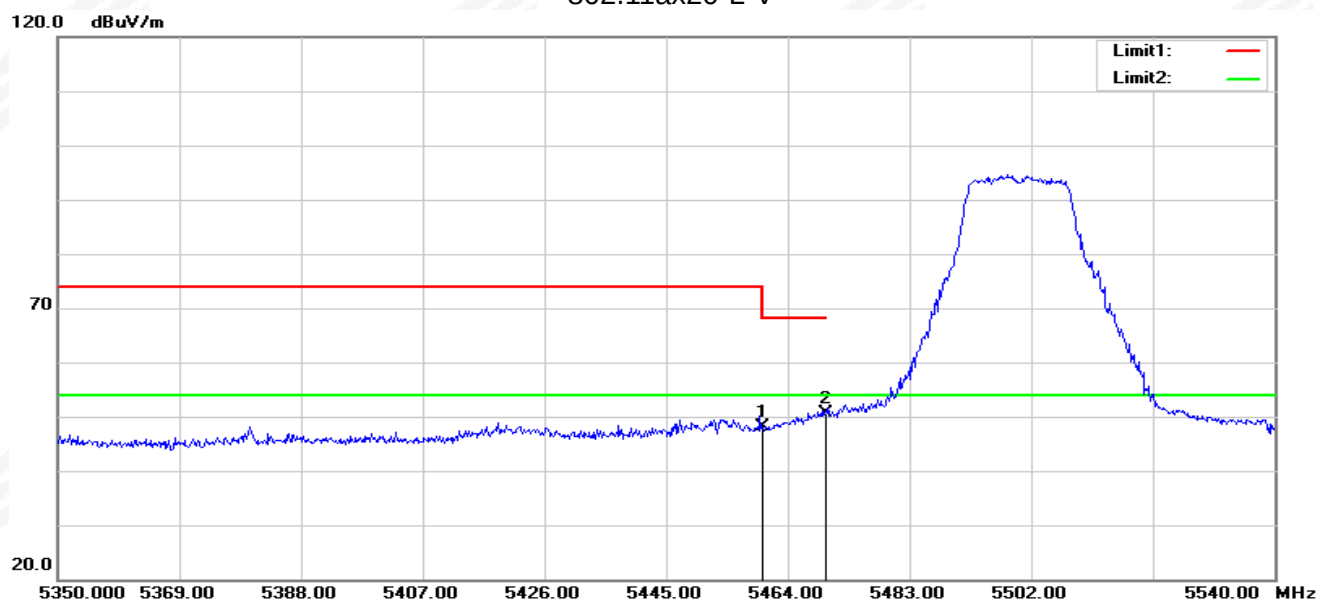
U-NII-2C 5470-5725MHz

802.11ax20-L-H



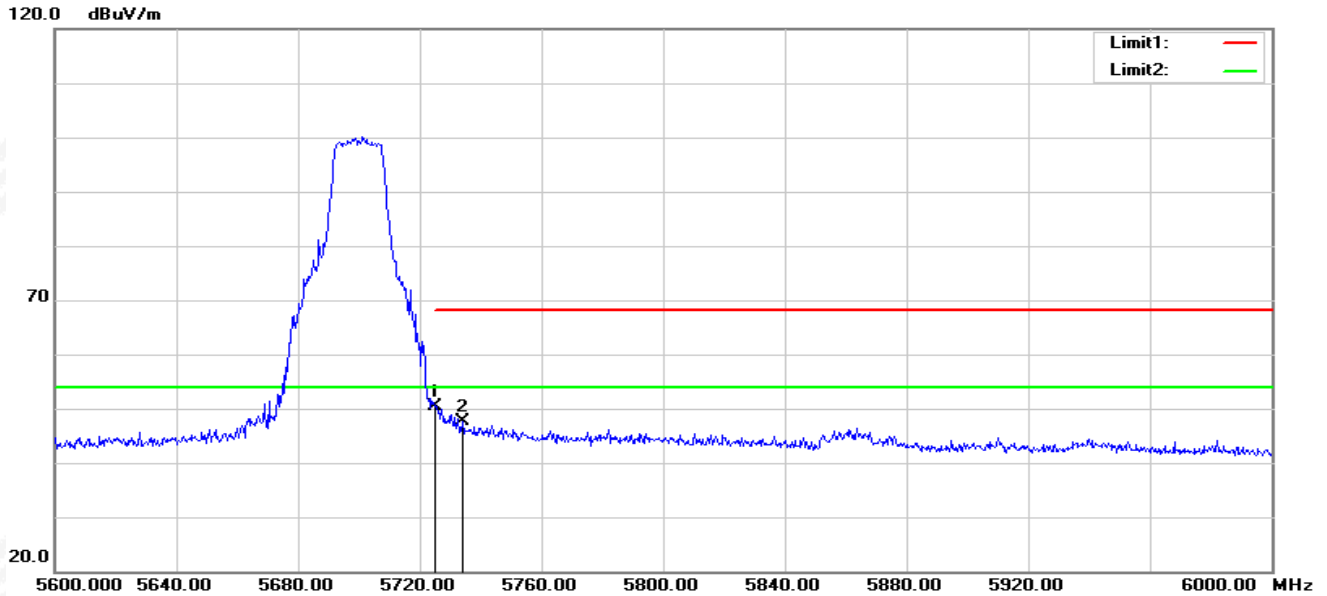
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	52.58	-5.11	47.47	68.20	-20.73	peak
2	5470.000	51.66	-5.09	46.57	68.20	-21.63	peak

802.11ax20-L-V



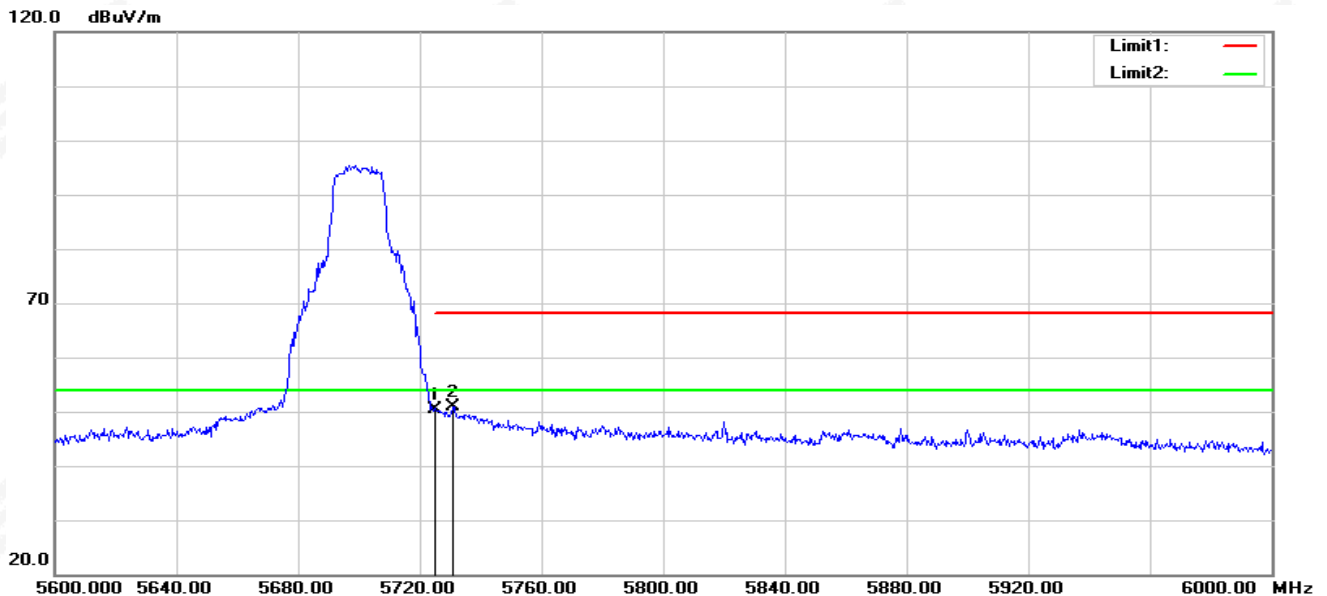
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	53.27	-5.11	48.16	68.20	-20.04	peak
2	5470.000	55.60	-5.09	50.51	68.20	-17.69	peak

802.11ax20-H-H



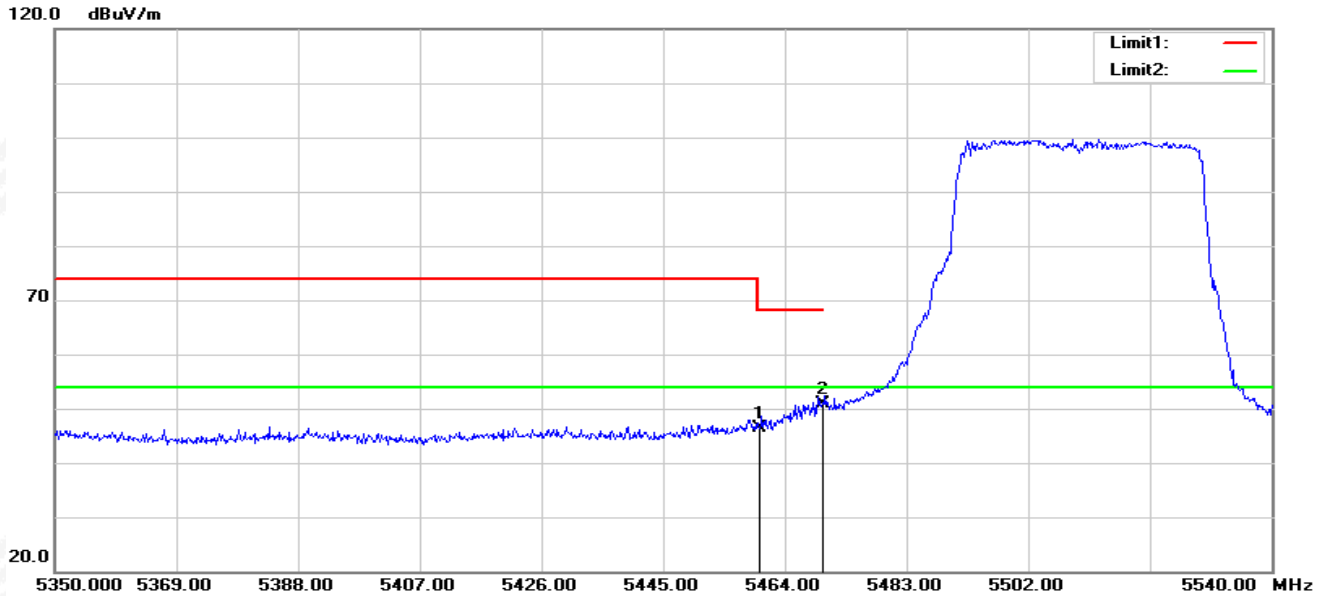
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	54.84	-4.57	50.27	68.20	-17.93	peak
2	5734.000	52.18	-4.55	47.63	68.20	-20.57	peak

802.11ax20-H-V



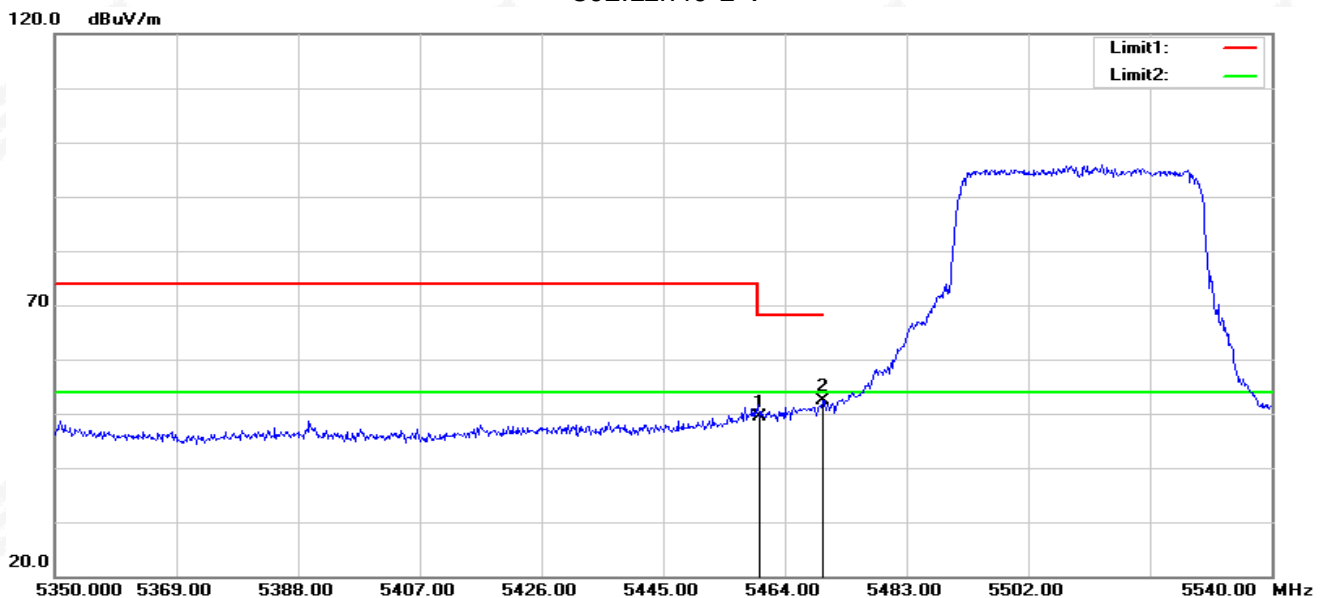
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	55.02	-4.57	50.45	68.20	-17.75	peak
2	5730.800	55.50	-4.55	50.95	68.20	-17.25	peak

802.11n40-L-H



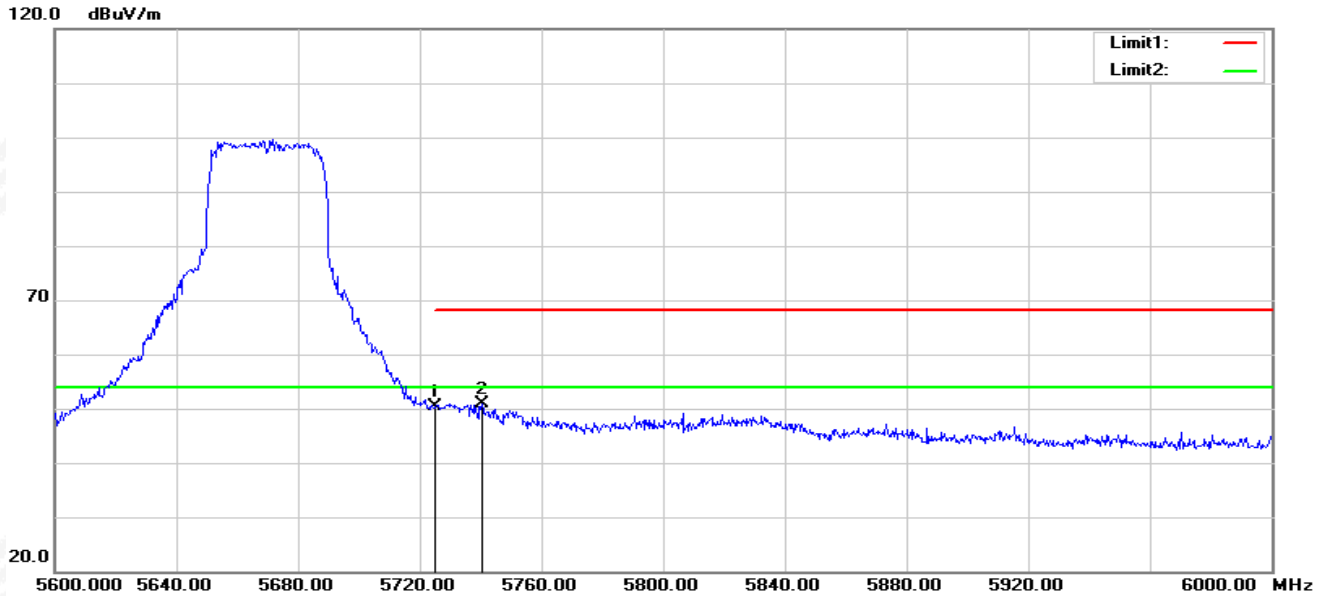
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	51.37	-5.11	46.26	68.20	-21.94	peak
2	5470.000	55.93	-5.09	50.84	68.20	-17.36	peak

802.11n40-L-V



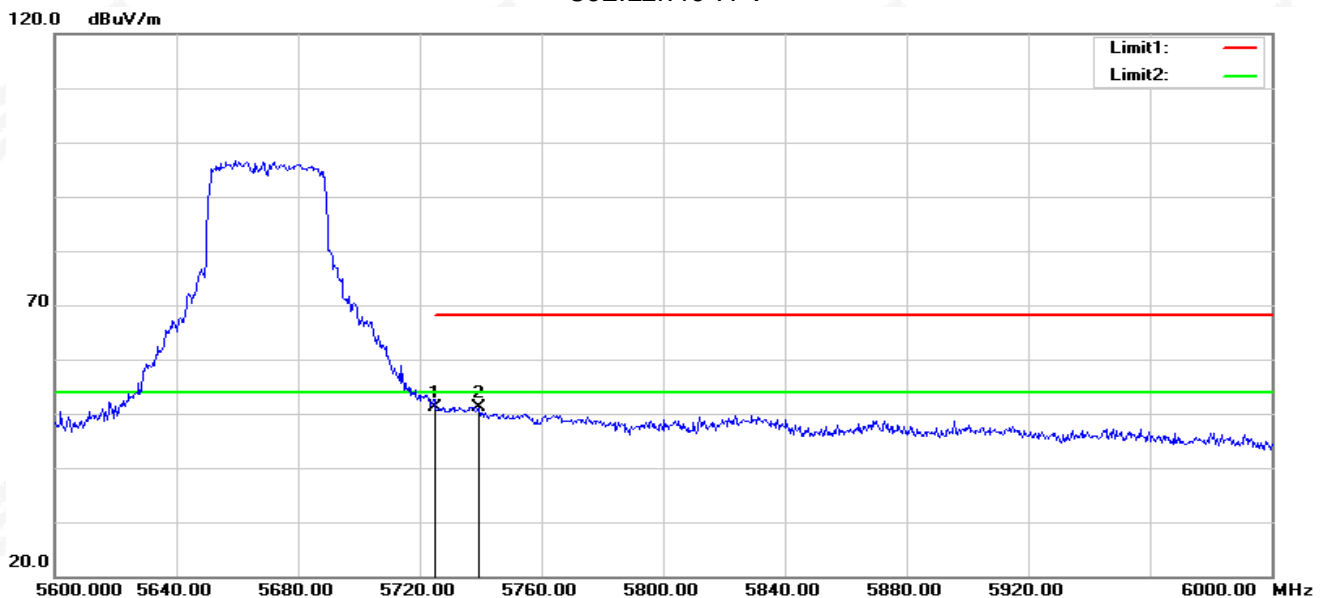
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	54.50	-5.11	49.39	68.20	-18.81	peak
2	5470.000	57.41	-5.09	52.32	68.20	-15.88	peak

802.11n40-H-H



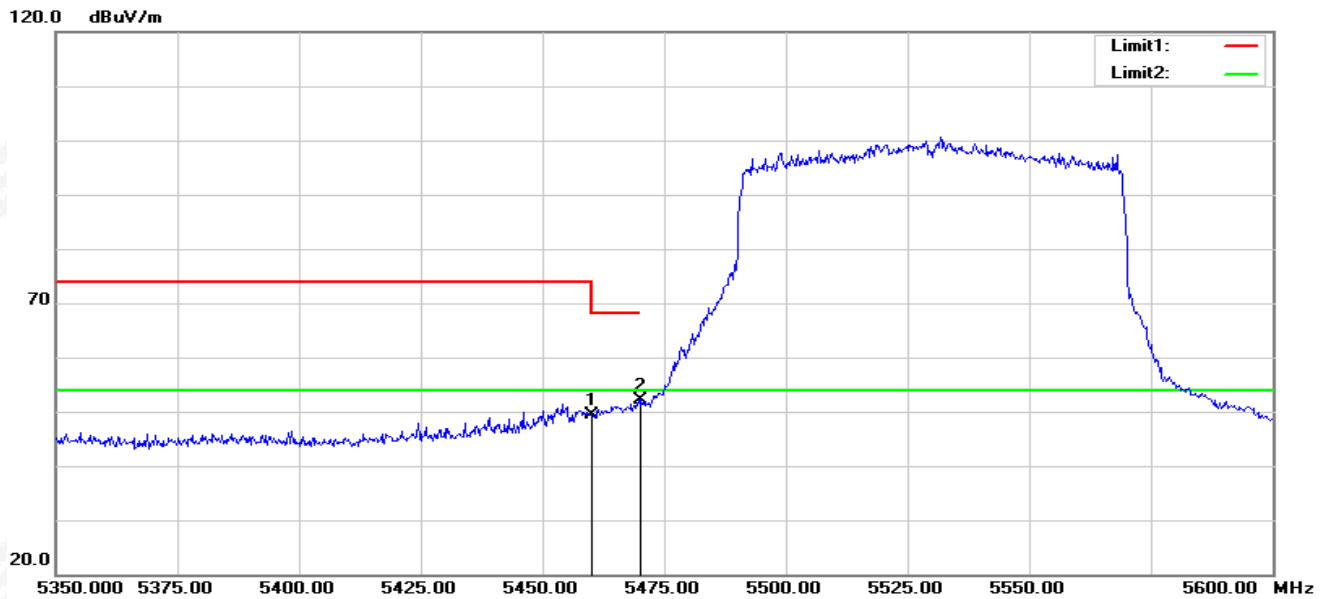
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	55.02	-4.57	50.45	68.20	-17.75	peak
2	5740.400	55.48	-4.53	50.95	68.20	-17.25	peak

802.11n40-H-V



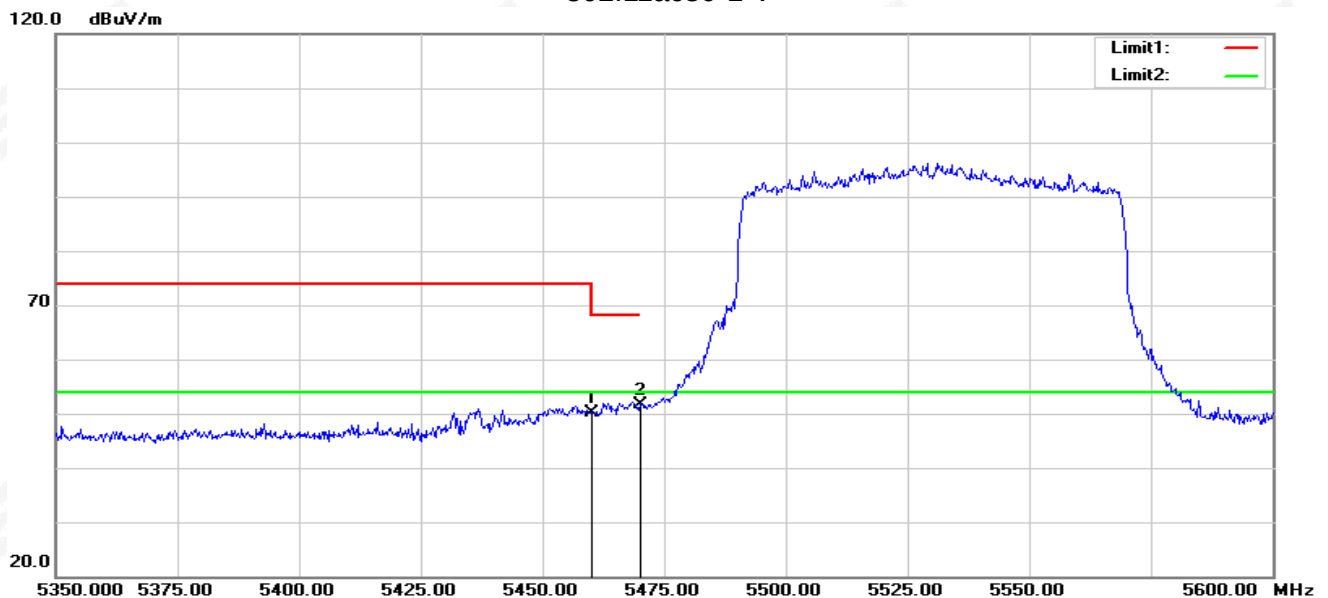
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	55.79	-4.57	51.22	68.20	-16.98	peak
2	5739.200	55.75	-4.53	51.22	68.20	-16.98	peak

802.11ac80-L-H



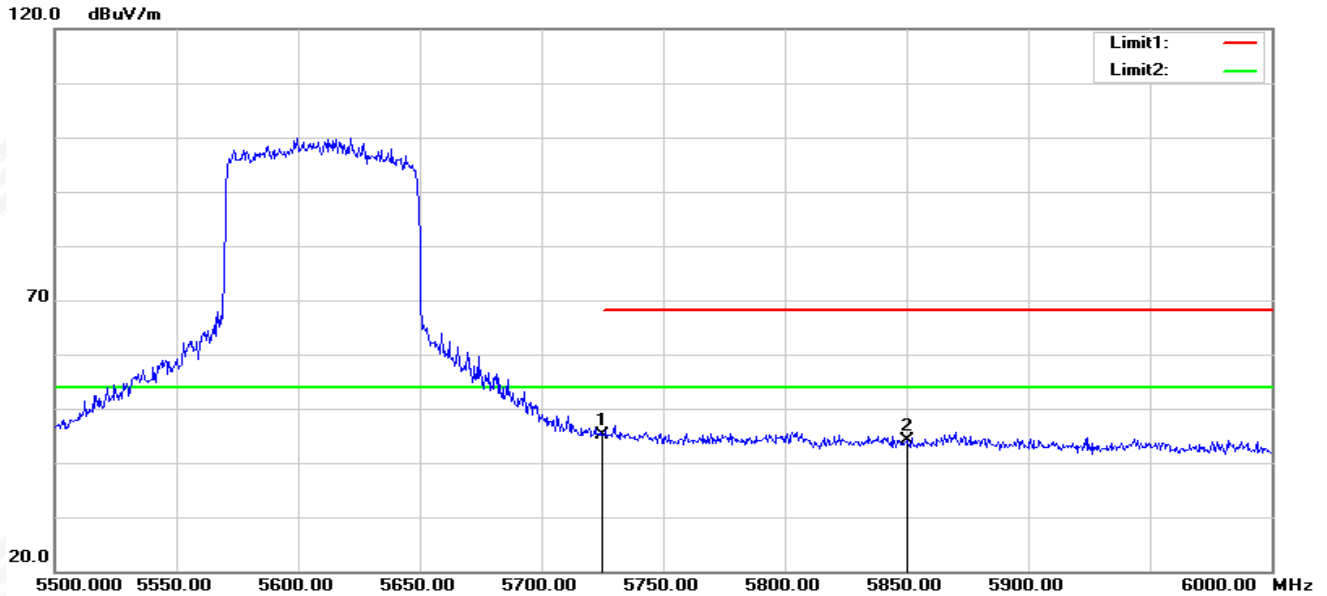
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	54.61	-5.11	49.50	68.20	-18.70	peak
2	5470.000	57.15	-5.09	52.06	68.20	-16.14	peak

802.11ac80-L-V



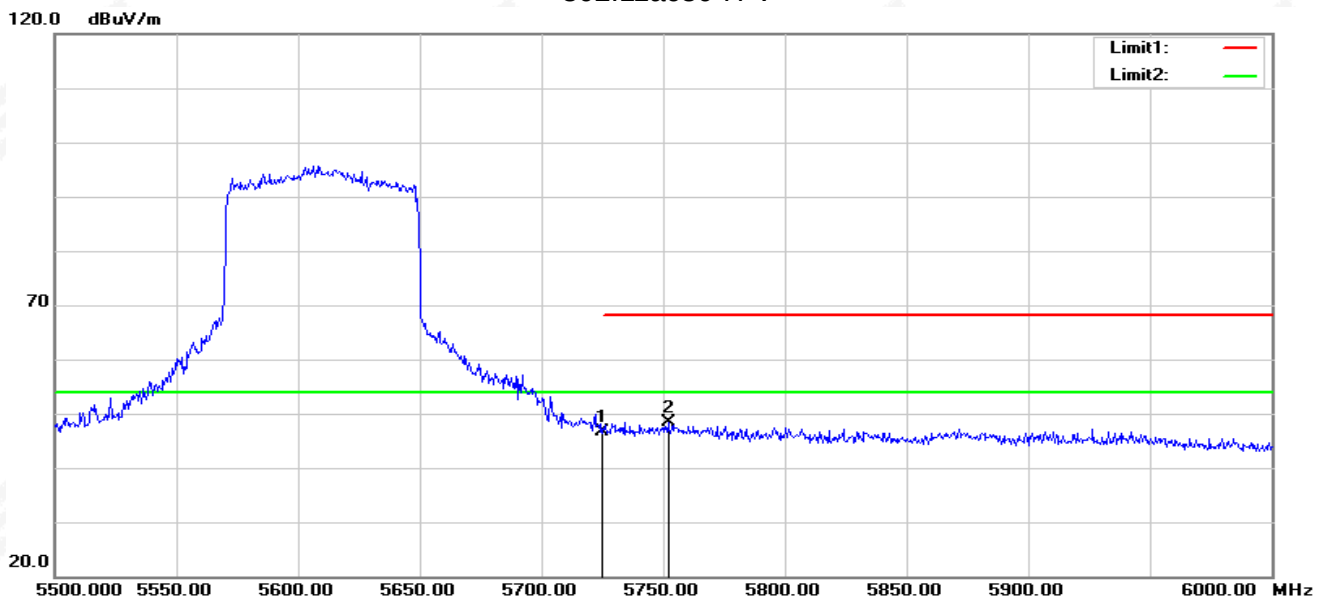
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	55.28	-5.11	50.17	68.20	-18.03	peak
2	5470.000	56.61	-5.09	51.52	68.20	-16.68	peak

802.11ac80-H-H



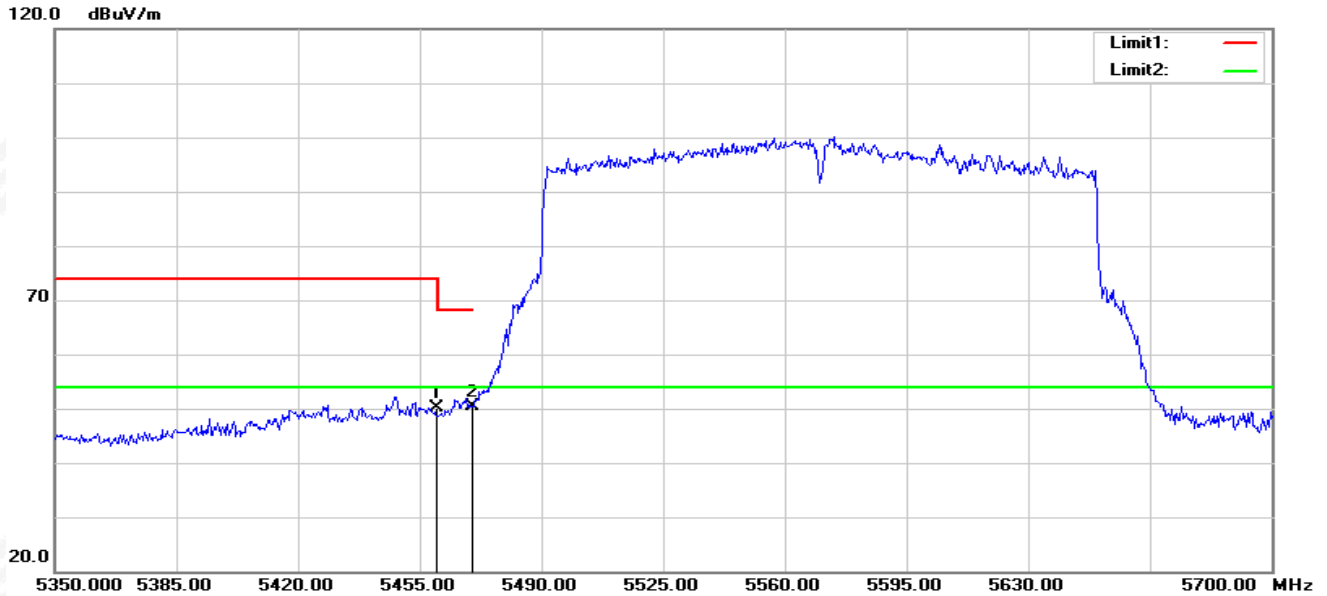
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	49.77	-4.57	45.20	68.20	-23.00	peak
2	5850.000	48.18	-4.10	44.08	68.20	-24.12	peak

802.11ac80-H-V



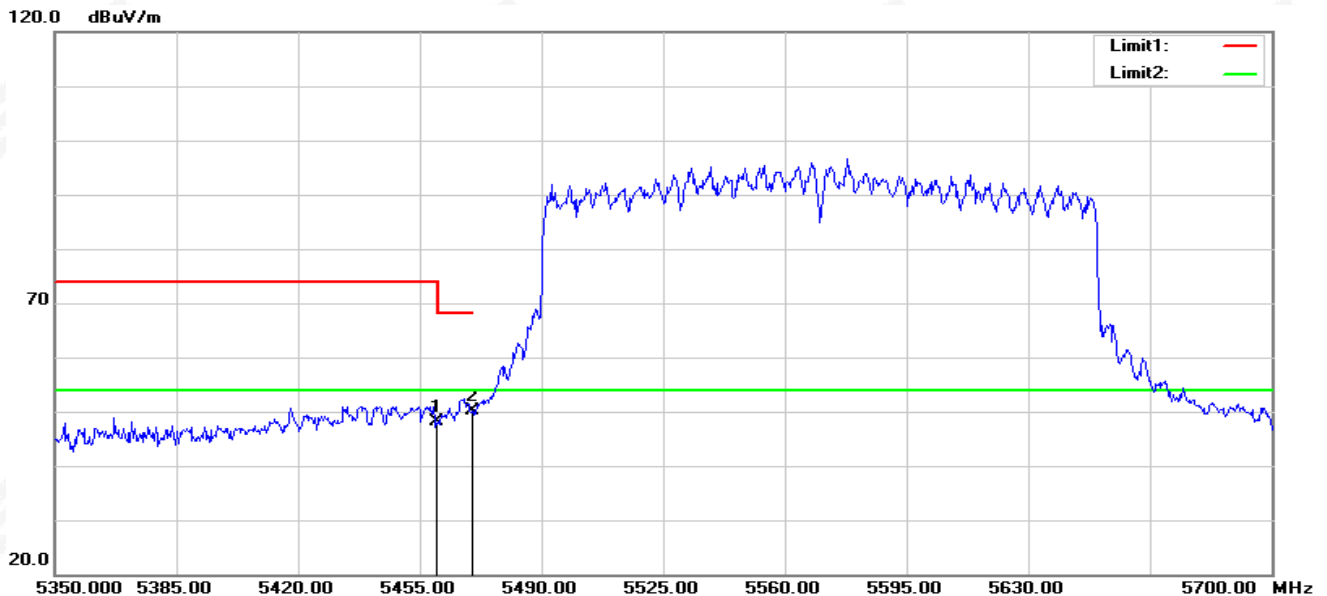
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	51.32	-4.57	46.75	68.20	-21.45	peak
2	5752.000	52.90	-4.49	48.41	68.20	-19.79	peak

802.11ac160-L-H



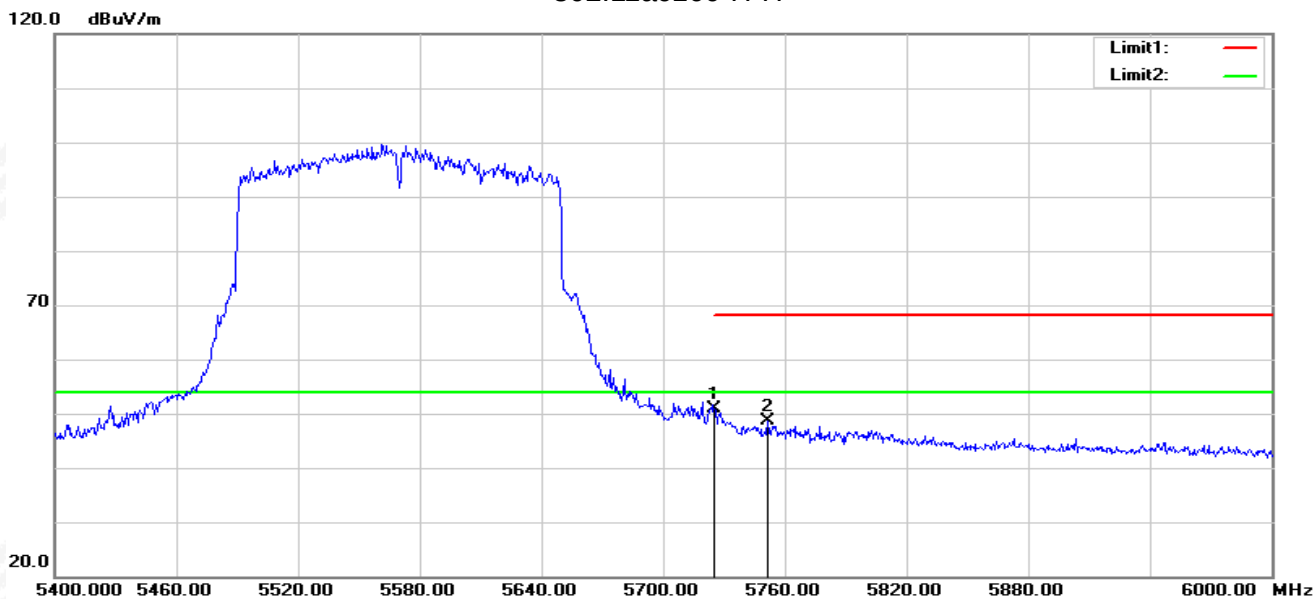
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	55.18	-5.11	50.07	68.20	-18.13	peak
2	5470.000	55.49	-5.09	50.40	68.20	-17.80	peak

802.11ac160-L-V



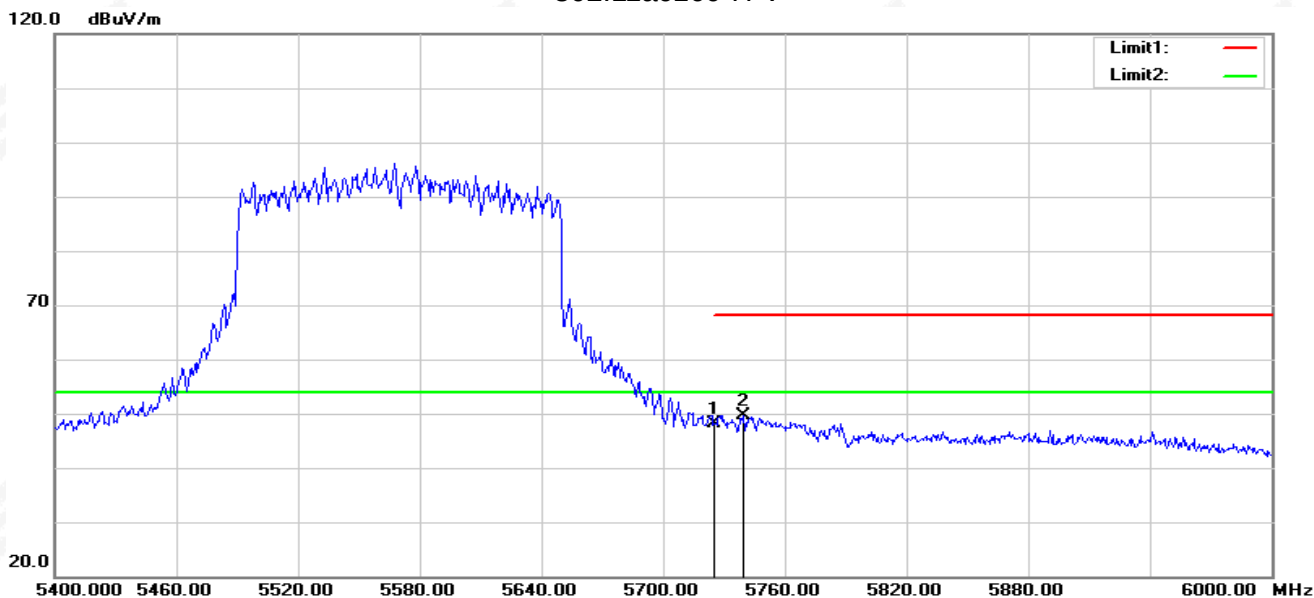
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	53.34	-5.11	48.23	68.20	-19.97	peak
2	5470.000	55.30	-5.09	50.21	68.20	-17.99	peak

802.11ac160-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	55.43	-4.57	50.86	68.20	-17.34	peak
2	5751.600	53.05	-4.49	48.56	68.20	-19.64	peak

802.11ac160-H-V

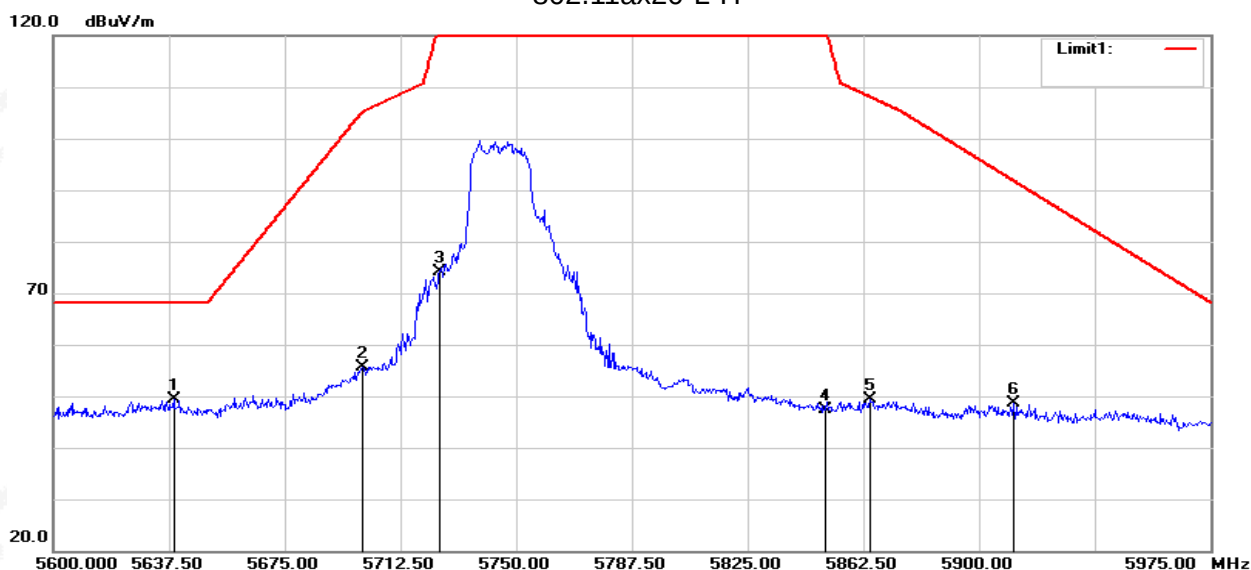


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	52.68	-4.57	48.11	68.20	-20.09	peak
2	5739.600	54.23	-4.53	49.70	68.20	-18.50	peak

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

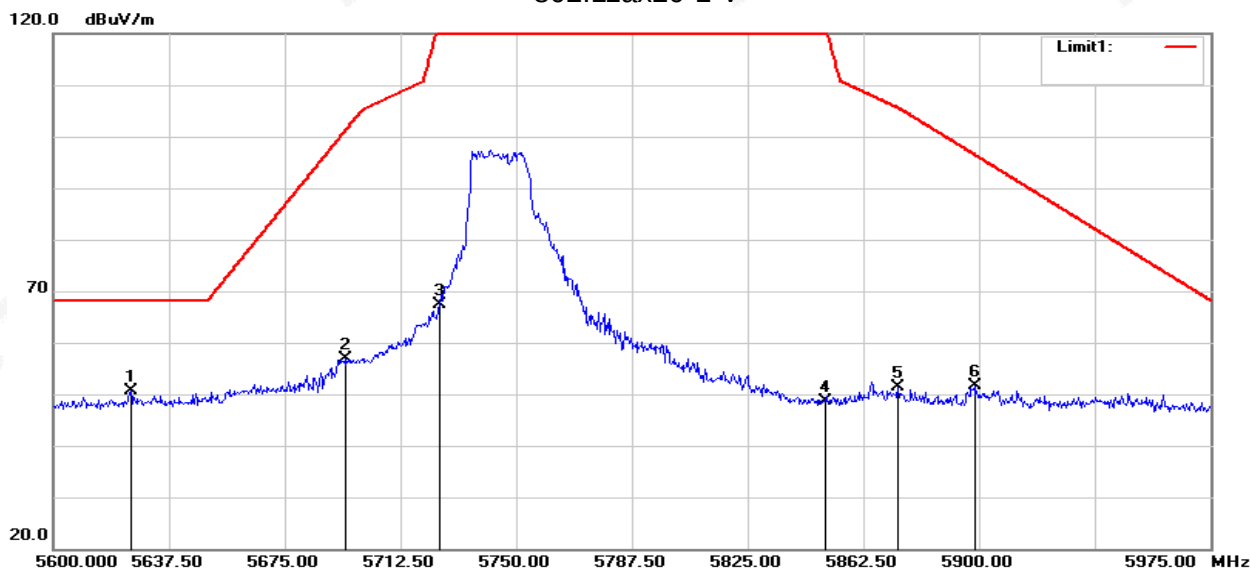
U-NII-3 (5.725-5.85 GHz)

802.11ax20-L-H



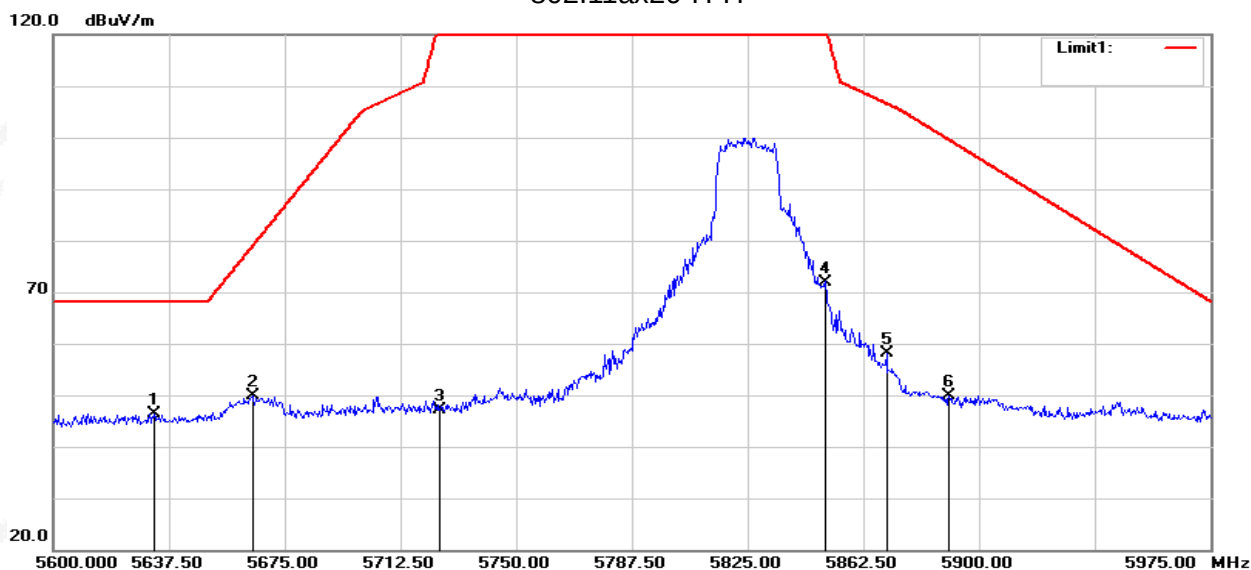
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5639.000	53.97	-4.69	49.28	68.20	-18.92	peak
2	5700.125	60.32	-4.66	55.66	105.23	-49.57	peak
3	5725.000	78.71	-4.57	74.14	122.20	-48.06	peak
4	5850.000	51.56	-4.10	47.46	122.20	-74.74	peak
5	5864.750	53.32	-4.04	49.28	108.07	-58.79	peak
6	5911.250	52.41	-3.90	48.51	91.79	-43.28	peak

802.11ax20-L-V



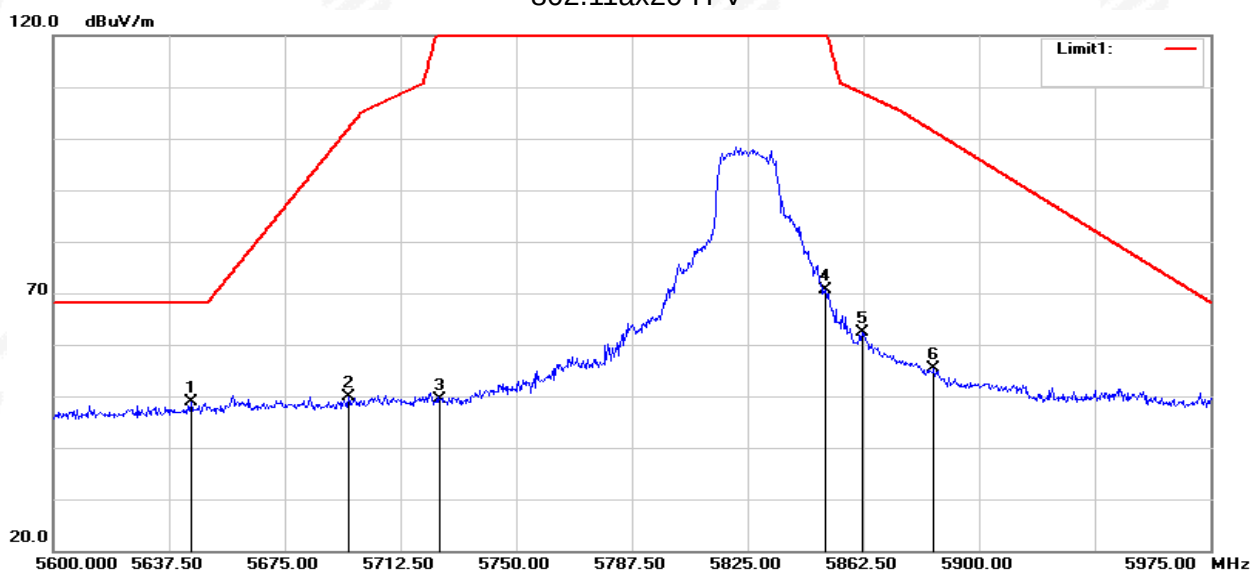
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5625.125	55.35	-4.69	50.66	68.20	-17.54	peak
2	5694.500	61.62	-4.66	56.96	101.13	-44.17	peak
3	5725.000	71.83	-4.57	67.26	122.20	-54.94	peak
4	5850.000	52.72	-4.10	48.62	122.20	-73.58	peak
5	5873.750	55.25	-3.99	51.26	105.55	-54.29	peak
6	5898.500	55.40	-3.88	51.52	96.51	-44.99	peak

802.11ax20-H-H



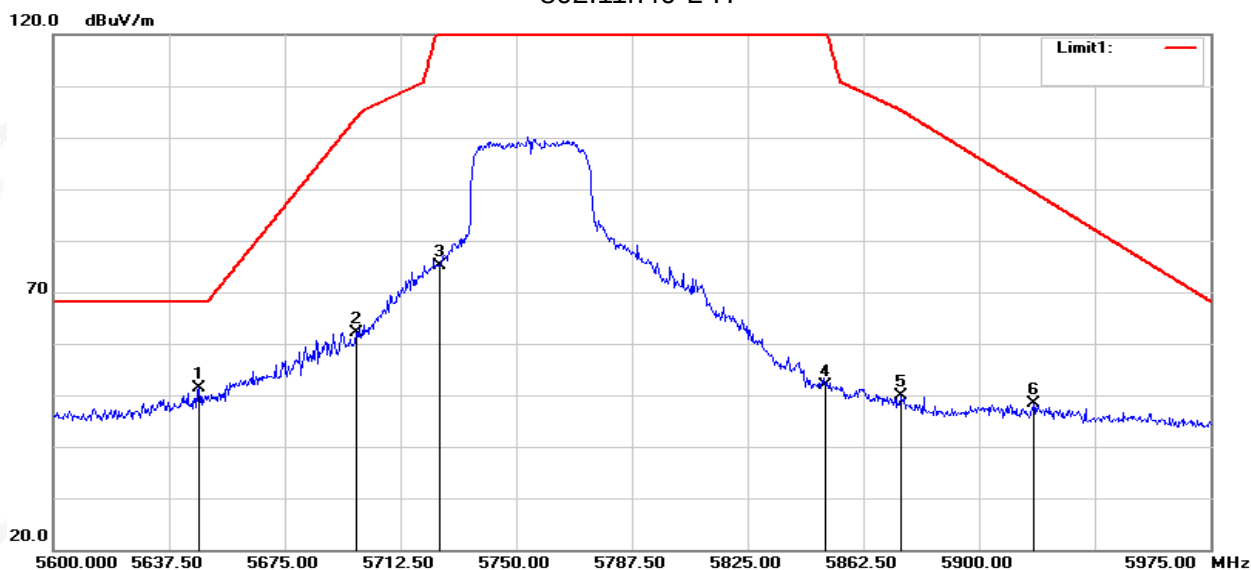
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5632.625	51.02	-4.69	46.33	68.20	-21.87	peak
2	5664.500	54.48	-4.68	49.80	78.93	-29.13	peak
3	5725.000	51.72	-4.57	47.15	122.20	-75.05	peak
4	5850.000	76.10	-4.10	72.00	122.20	-50.20	peak
5	5870.000	62.04	-4.01	58.03	106.60	-48.57	peak
6	5890.250	53.93	-3.93	50.00	99.56	-49.56	peak

802.11ax20-H-V



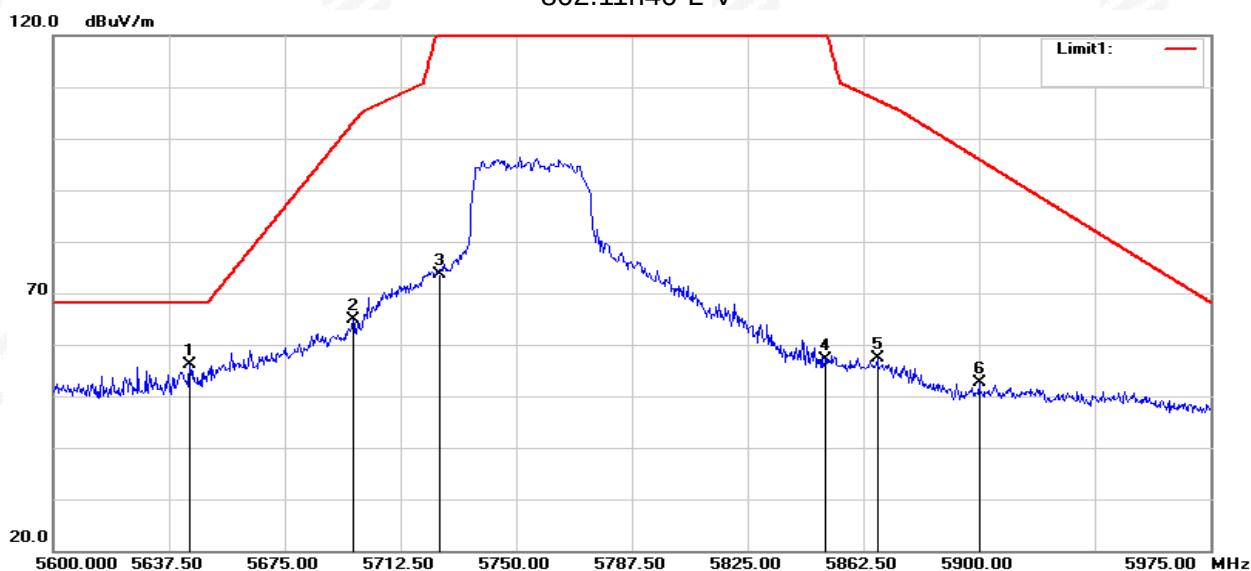
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5644.625	53.55	-4.68	48.87	68.20	-19.33	peak
2	5695.625	54.58	-4.66	49.92	101.96	-52.04	peak
3	5725.000	53.83	-4.57	49.26	122.20	-72.94	peak
4	5850.000	74.72	-4.10	70.62	122.20	-51.58	peak
5	5862.125	66.47	-4.05	62.42	108.80	-46.38	peak
6	5885.375	59.35	-3.94	55.41	101.36	-45.95	peak

802.11n40-L-H



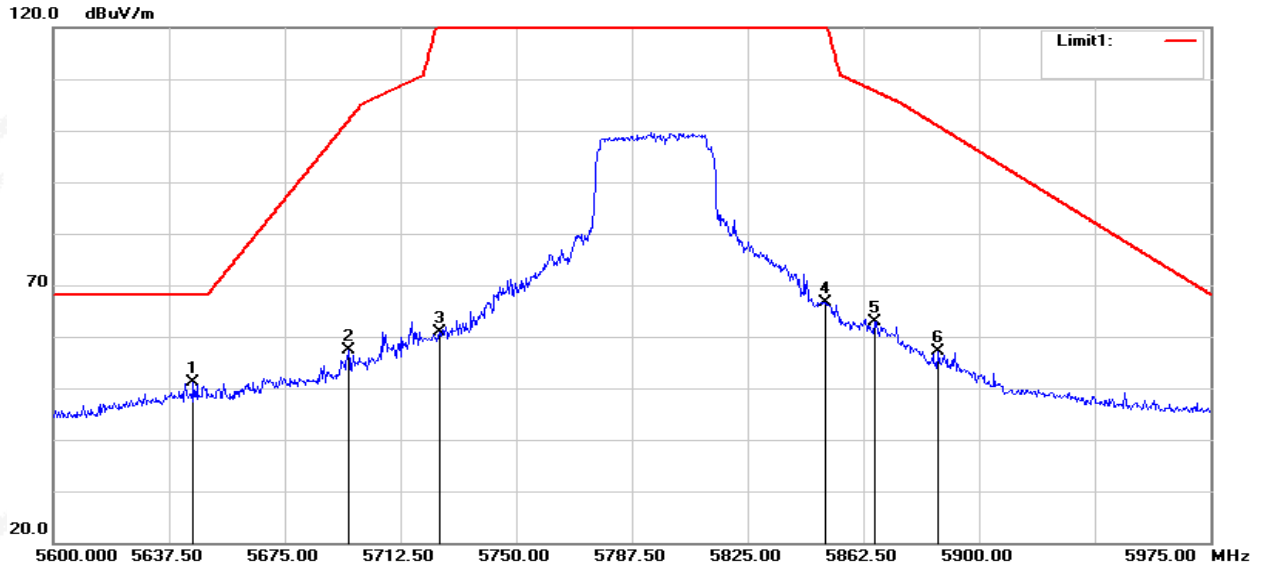
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5647.250	56.04	-4.68	51.36	68.20	-16.84	peak
2	5698.250	66.81	-4.66	62.15	103.91	-41.76	peak
3	5725.000	79.78	-4.57	75.21	122.20	-46.99	peak
4	5850.000	55.94	-4.10	51.84	122.20	-70.36	peak
5	5874.875	53.90	-3.99	49.91	105.23	-55.32	peak
6	5917.625	52.22	-3.91	48.31	89.43	-41.12	peak

802.11n40-L-V



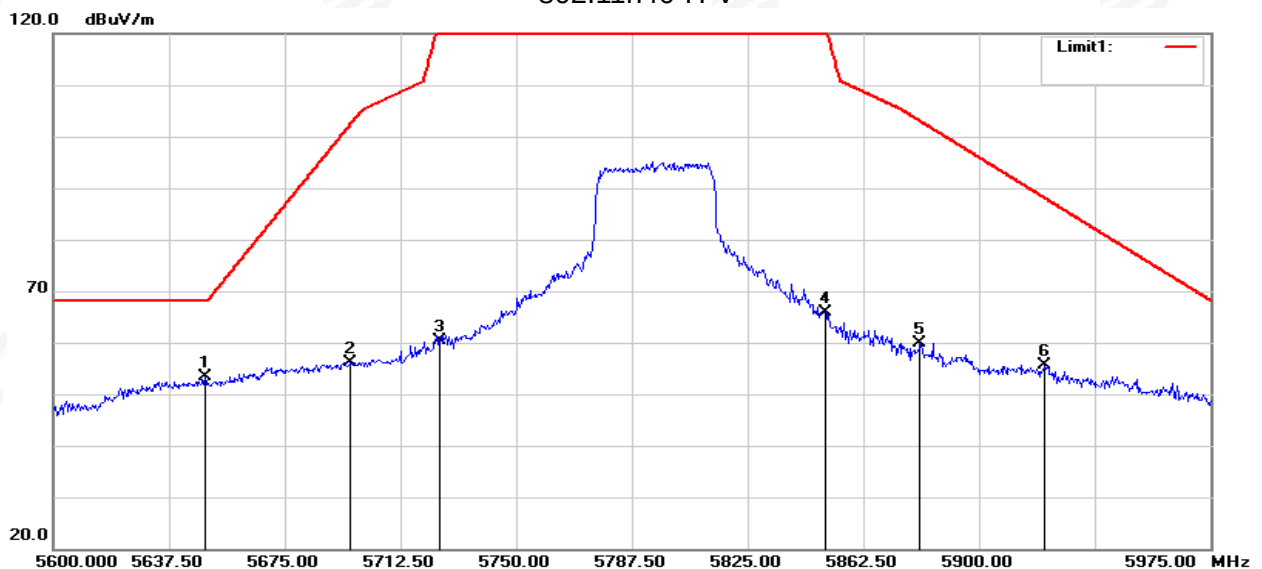
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5644.250	60.77	-4.68	56.09	68.20	-12.11	peak
2	5697.125	69.66	-4.66	65.00	103.07	-38.07	peak
3	5725.000	78.31	-4.57	73.74	122.20	-48.46	peak
4	5850.000	61.13	-4.10	57.03	122.20	-65.17	peak
5	5867.000	61.44	-4.02	57.42	107.44	-50.02	peak
6	5900.000	56.56	-3.88	52.68	95.95	-43.27	peak

802.11n40-H-H



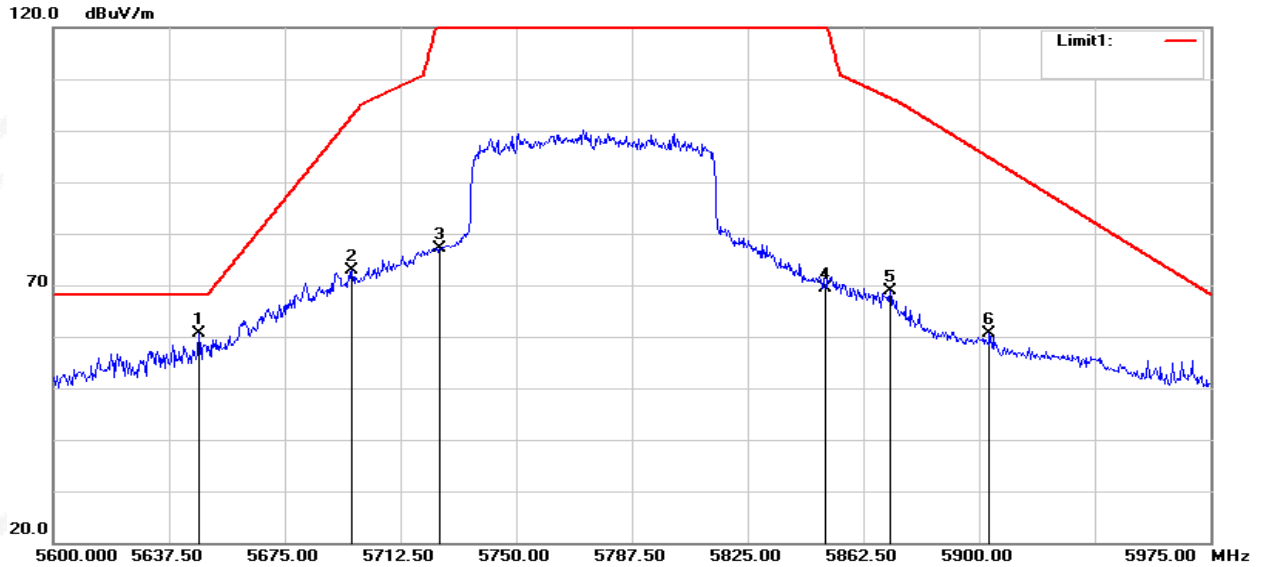
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5645.375	55.83	-4.68	51.15	68.20	-17.05	peak
2	5695.625	62.13	-4.66	57.47	101.96	-44.49	peak
3	5725.000	65.53	-4.57	60.96	122.20	-61.24	peak
4	5850.000	70.80	-4.10	66.70	122.20	-55.50	peak
5	5866.250	67.01	-4.02	62.99	107.65	-44.66	peak
6	5886.875	61.01	-3.94	57.07	100.81	-43.74	peak

802.11n40-H-V



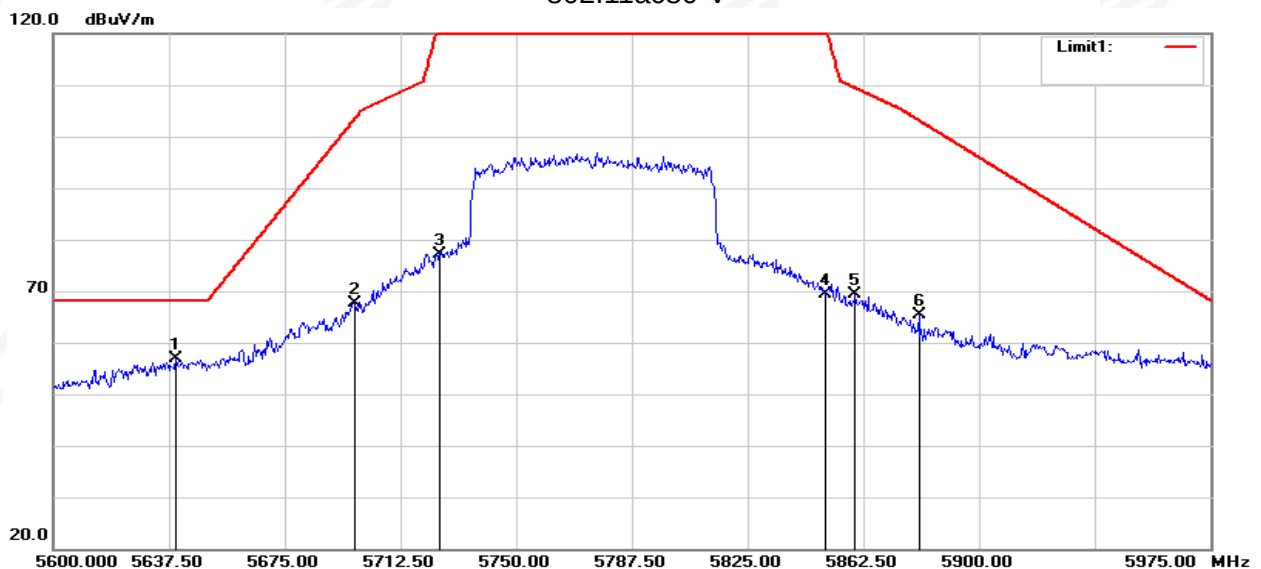
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5649.125	58.03	-4.68	53.35	68.20	-14.85	peak
2	5696.375	60.86	-4.67	56.19	102.52	-46.33	peak
3	5725.000	64.89	-4.57	60.32	122.20	-61.88	peak
4	5850.000	69.92	-4.10	65.82	122.20	-56.38	peak
5	5880.875	63.86	-3.96	59.90	103.03	-43.13	peak
6	5921.375	59.51	-3.92	55.59	88.04	-32.45	peak

802.11ac80-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5647.250	65.27	-4.68	60.59	68.20	-7.61	peak
2	5696.750	77.45	-4.67	72.78	102.80	-30.02	peak
3	5725.000	81.79	-4.57	77.22	122.20	-44.98	peak
4	5850.000	73.45	-4.10	69.35	122.20	-52.85	peak
5	5871.125	72.96	-4.01	68.95	106.28	-37.33	peak
6	5903.375	64.42	-3.88	60.54	94.70	-34.16	peak

802.11ac80-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5639.750	61.69	-4.69	57.00	68.20	-11.20	peak
2	5697.500	72.39	-4.66	67.73	103.35	-35.62	peak
3	5725.000	81.71	-4.57	77.14	122.20	-45.06	peak
4	5850.000	73.49	-4.10	69.39	122.20	-52.81	peak
5	5859.875	73.35	-4.05	69.30	109.44	-40.14	peak
6	5880.500	69.37	-3.96	65.41	103.17	-37.76	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 789033 D02 General U-NII Test Procedures New Rules v02r01.

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 “STS2412014W16_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 "STS2412014W16_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 "STS2412014W16_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 "STS2412014W16_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	

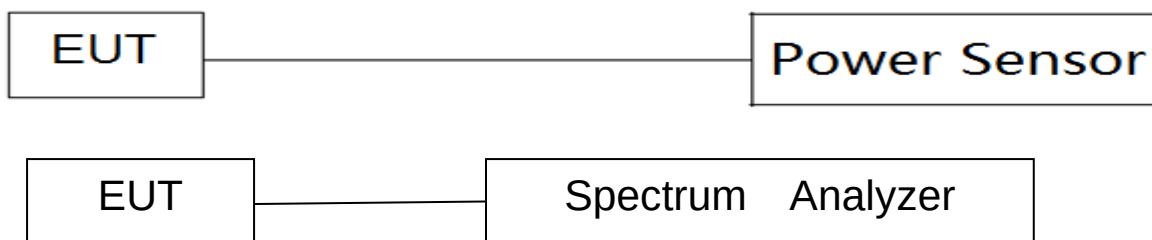
6.2 TEST PROCEDURE

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 "STS2412014W16_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 Patch 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*****