



Radio Test Report

Report No.: STS2511339W10

Issued for

Zhone Technologies, Inc.

5700 Tennyson Parkway, Suite 400, Plano, TX 75024, USA.

Product Name: Optical Network Terminal (ONT)

Brand Name: Zhone

Model Name: 2467GN

Series Model(s): N/A

FCC ID: 2BRXC2467GN

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**: Zhone Technologies, Inc.

Address: 5700 Tennyson Parkway, Suite 400, Plano, TX 75024, USA.

Manufacturer's Name: Zhone Technologies, Inc.

Address: 5700 Tennyson Parkway, Suite 400, Plano, TX 75024, USA.

Product Description

Product Name: Optical Network Terminal (ONT)

Brand Name: Zhone

Model Name: 2467GN

Series Model(s): N/A

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: 04 Aug. 2025

Date (s) of performance of tests: 04 Aug. 2025 ~ 01 Dec. 2025

Date of Issue: 01 Dec. 2025

Test Result: **Pass**

Testing Engineer :

(Aaron Bu)

Technical Manager :

(Skylar Li)

Authorized Signatory :

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	01 Dec. 2025	STS2511339W10	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	N/A
15.407(a)	Maximum Conducted Output Power	N/A
15.407(b)/15.209	Radiated Emission And (bandedge Emissions) Measurement	PASS
15.407(a)	Power Spectral Density	N/A
15.407°C	Automatically Discontinue Transmission	N/A
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	Optical Network Terminal (ONT)	
Brand Name	Zhone	
Model Name	2467GN	
Series Model(s)	N/A	
Model Difference	N/A	
Product Description	The EUT is Optical Network Terminal (ONT)	
	Operation Frequency:	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 802.11a/ 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 IEEE 802.11ac(VHT160) /ax(HE160): 5.250GHz
		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): 5.570 GHz
		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
		802.11a Support SISO 802.11n/ac/ax Support MIMO
	Antenna Type:	2x2 internal Antenna
	Antenna Gain:	Ant. 1: 2.78dBi Ant. 2: 2.78dBi MIMO: 5.79dBi
	More details of EUT technical specification, please refer to the User Manual.	
Test Channel	Please refer to the Note 3.	
Power Rating	Input: 100-240Vac, Max 0.6A, 50/60Hz	



Adapter	Model: RD1202000-C55-154MG Brand: RuiDe Input: 100-240Vac, Max 0.6A, 50/60Hz Output: 12Vdc, 2.0A Model: AD-D0041200200US01 Brand: AMC Input: 100-240Vac, Max 0.6A, 50/60Hz Output: 12Vdc, 2.0A
Battery	N/A
Hardware version number	N/A
Software version number	N/A
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 details in this report are based on the manufacturer provided antenna specification documents and apply only to the tested sample identified herein.
Any discrepancies in the antenna information may affect the accuracy of the test results, and the customer assumes responsibility for any related issues.
- 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		
52	5260	120	5600
54	5270	122	5610
56	5280	124	5620
58	5290	126	5630
60	5300	128	5640
62	5310	132	5660
64	5320	134	5670
		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

4. KDB 662911 D01 Multiple Transmitter Output v02r01

2) Directional Gain Calculations for In-Band Measurements

d) Unequal antenna gains, with equal transmit powers. For antenna gains given by $G_1, G_2, \dots, G_N$ dBi

☒ (i) If transmit signals are correlated, then

Directional gain = $10 \log[(10G_1/20 + 10G_2/20 + \dots + 10G_N/20)^2 / NANT]$ dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

☐ (ii) If all transmit signals are completely uncorrelated, then

Directional gain = $10 \log[(10G_1/10 + 10G_2/10 + \dots + 10G_N/10)/NANT]$ dBi



2.2 DESCRIPTION OF TEST MODES

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

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11a HT20 CH36&CH40&CH48	6 Mbps
Mode 2	TX IEEE 802.11a HT20 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 802.11ax HE160 CH50	NSS1 MCS0
Mode 38	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 802.11ax mode is investigated among different tones(26/52/106/242-tone RU channel), full resource units (RU), partial resourceunits. The partial RU has no higher power than full RU's, thus the full RU is chosen as main testconfiguration.

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 39: 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.

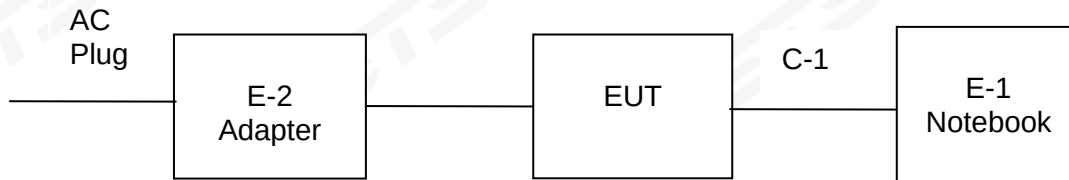
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power Class	ANT_2 Power Class	Software For Testing
WIFI(5G)	U-NII-1 (5150MHz-5250MHz)	802.11a	Ant. 1: 2.78 Ant. 2: 2.78 MIMO: 5.79	32	32	accessMTool_REL _3_3_0_4
		802.11n(HT20)		32	32	
		802.11n(HT40)		32	32	
		802.11ac(VHT20)		32	32	
		802.11ac(VHT40)		32	32	
		802.11ac(VHT80)		32	32	
		802.11ax(HE20)		32	32	
		802.11ax(HE40)		32	32	
		802.11ax(HE80)		32	32	
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_A Power Class	ANT_B Power Class	Software For Testing
WIFI(5G)	U-NII-2A (5250MHz-5350MHz)	802.11a	Ant. 1: 2.78 Ant. 2: 2.78 MIMO: 5.79	35	35	accessMTool_REL _3_3_0_4
		802.11n(HT20)		35	35	
		802.11n(HT40)		35	35	
		802.11ac(VHT20)		35	35	
		802.11ac(VHT40)		35	35	
		802.11ac(VHT80)		35	35	
		802.11ax(HE20)		35	35	
		802.11ax(HE40)		35	35	
		802.11ax(HE80)		35	35	
		802.11ax(HE160)		35	35	



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: 2.78 Ant. 2: 2.78 MIMO: 5.79	35	35	accessMTool_REL _3_3_0_4
		802.11n(HT20)		35	35	
		802.11n(HT40)		35	35	
		802.11ac(VHT20)		35	35	
		802.11ac(VHT40)		35	35	
		802.11ac(VHT80)		35	35	
		802.11ax(HE20)		35	35	
		802.11ax(HE40)		35	35	
		802.11ax(HE80)		35	35	
		802.11ax(HE160)		35	35	
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: 2.78 Ant. 2: 2.78 MIMO: 5.79	35	35	accessMTool_REL _3_3_0_4
		802.11n(HT20)		35	35	
		802.11n(HT40)		35	35	
		802.11ac(VHT20)		35	35	
		802.11ac(VHT40)		35	35	
		802.11ac(VHT80)		35	35	
		802.11ax(HE20)		35	35	
		802.11ax(HE40)		35	35	
		802.11ax(HE80)		35	35	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

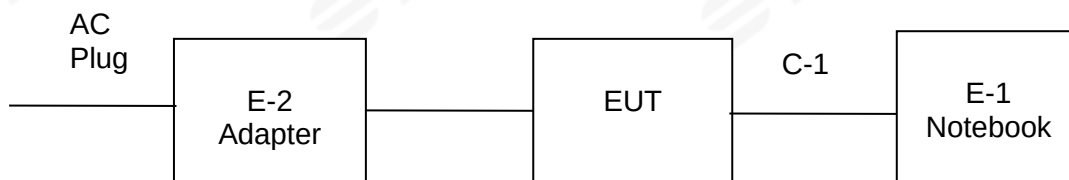
Radiated Spurious Emission Test



Conducted Emission Test



RF Conducted 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.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Adapter	RuiDe	RD1202000-C55-154MG	N/A
C-1	LAN Cable	ZTC	NB-A515A	N/A

Item	Equipment	Mfr/Brand	Length	Note
C-1	Shielded	NO	100cm	N/A

Note:

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



2.6 EQUIPMENTS LIST

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2025.02.22	2026.02.21
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2025.09.25	2026.09.24
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2025.02.22	2026.02.21
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2027.02.24
Bilog Antenna	TESEQ	CBL6111D	34678	2025.09.27	2027.09.26
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2025.09.27	2027.09.26
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2025.09.27	2027.09.26
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
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	2025.09.22	2026.09.21
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	2025.09.25	2026.09.24
Limiter	CYBERTEK	EM5010	N/A	2025.09.25	2026.09.24
LISN	R&S	ENV216	101242	2025.09.25	2026.09.24
LISN	EMCO	3810/2NM	23625	2025.09.25	2026.09.24
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Test SW	EZ-EMC	Ver.STSLAB-03A1 CE			

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

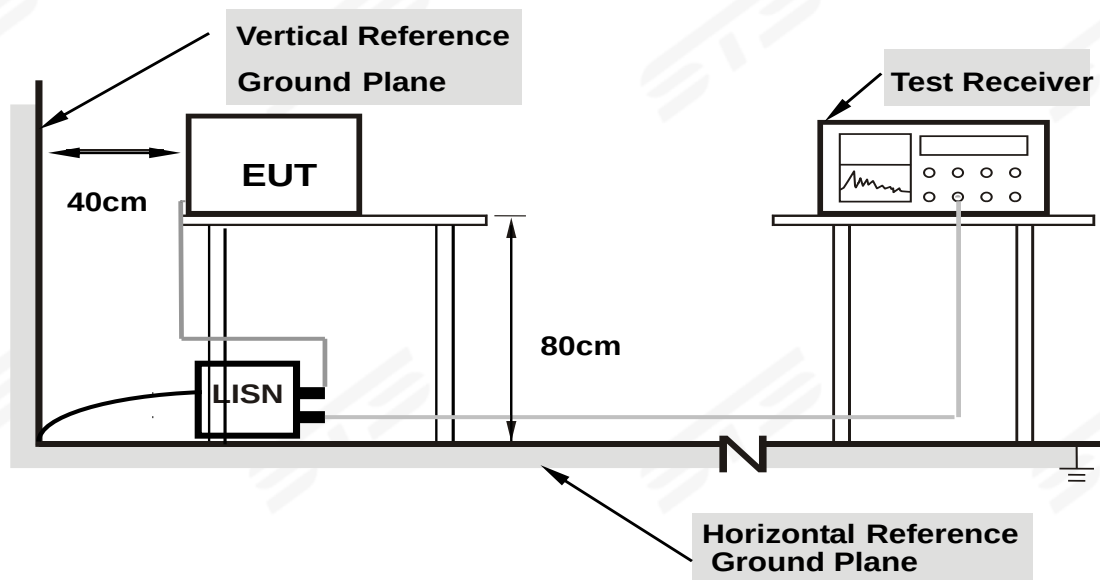
3.1.2 TEST PROCEDURE

- 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

AD-D0041200200US01

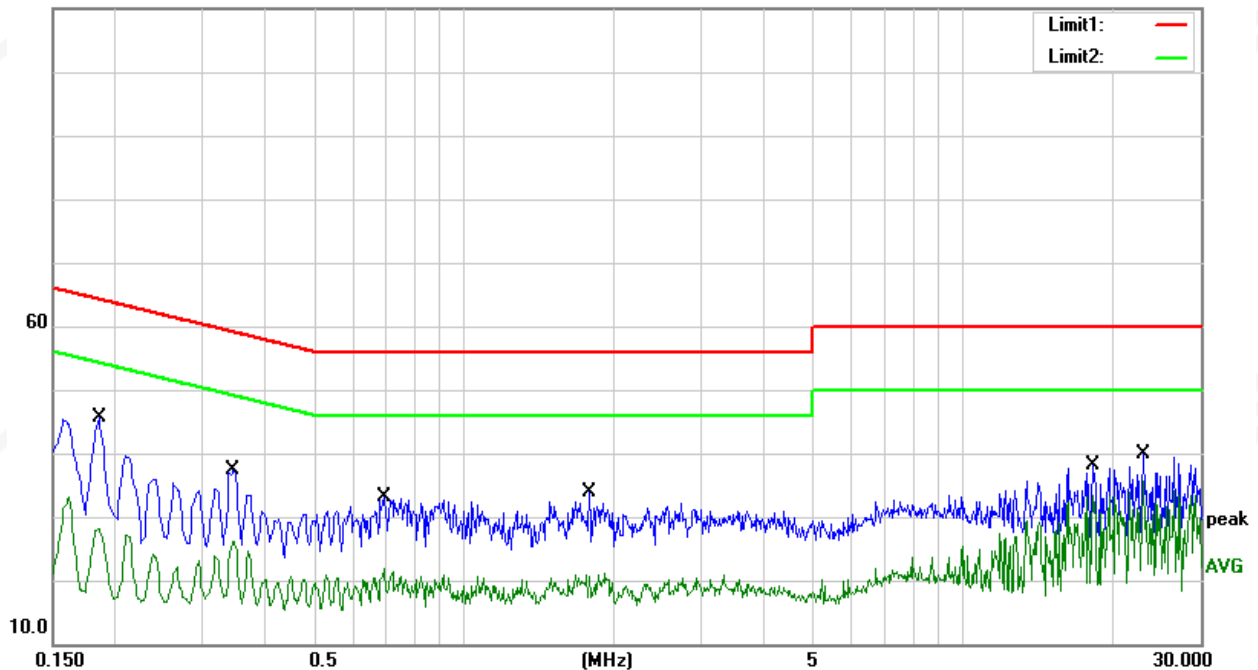
Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode :	Mode 39		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1860	25.82	19.89	45.71	64.21	-18.50	QP
2	0.1860	13.17	19.89	33.06	54.21	-21.15	AVG
3	0.3460	17.51	19.82	37.33	59.06	-21.73	QP
4	0.3460	6.42	19.82	26.24	49.06	-22.82	AVG
5	0.6900	13.22	19.80	33.02	56.00	-22.98	QP
6	0.6900	2.00	19.80	21.80	46.00	-24.20	AVG
7	1.7820	14.11	19.80	33.91	56.00	-22.09	QP
8	1.7820	1.26	19.80	21.06	46.00	-24.94	AVG
9	18.2420	17.60	20.42	38.02	60.00	-21.98	QP
10	18.2420	13.01	20.42	33.43	50.00	-16.57	AVG
11	23.1300	19.26	20.51	39.77	60.00	-20.23	QP
12	23.1300	15.04	20.51	35.55	50.00	-14.45	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)

110.0 dBuV





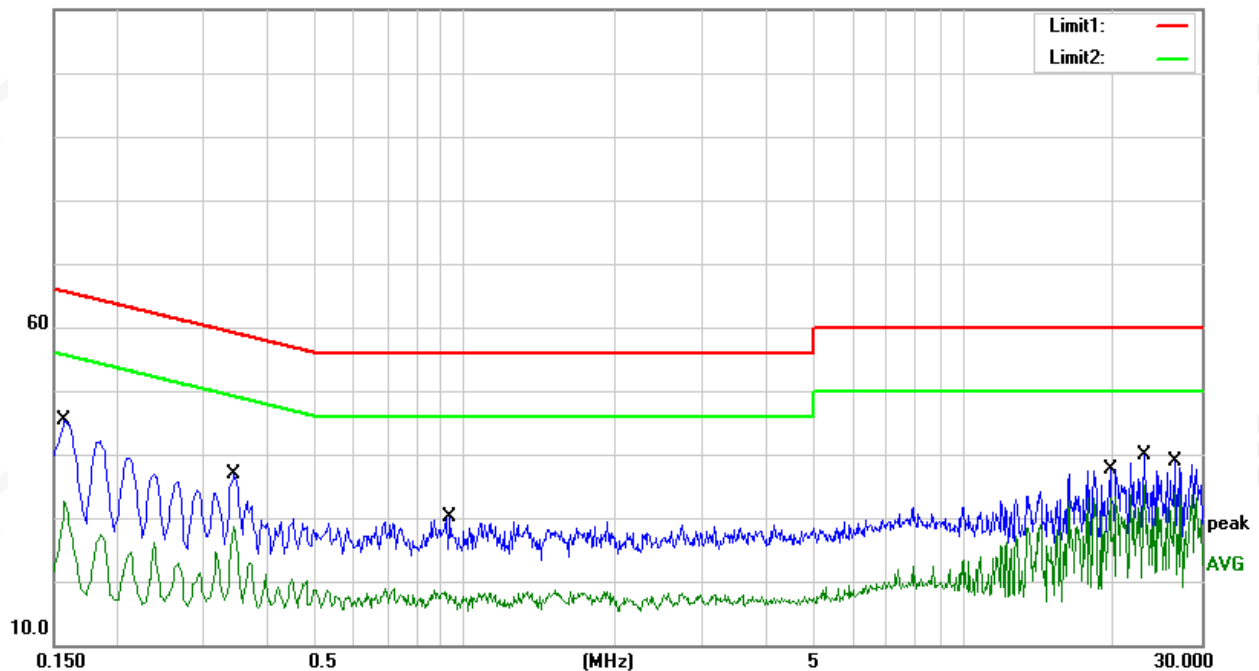
Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode :	Mode 39		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1580	25.54	19.83	45.37	65.57	-20.20	QP
2	0.1580	12.71	19.83	32.54	55.57	-23.03	AVG
3	0.3460	17.04	19.75	36.79	59.06	-22.27	QP
4	0.3460	8.94	19.75	28.69	49.06	-20.37	AVG
5	0.9340	10.19	19.81	30.00	56.00	-26.00	QP
6	0.9340	-0.84	19.81	18.97	46.00	-27.03	AVG
7	19.7100	17.21	20.48	37.69	60.00	-22.31	QP
8	19.7100	13.13	20.48	33.61	50.00	-16.39	AVG
9	23.1300	19.36	20.52	39.88	60.00	-20.12	QP
10	23.1300	14.70	20.52	35.22	50.00	-14.78	AVG
11	26.6100	18.31	20.55	38.86	60.00	-21.14	QP
12	26.6100	13.39	20.55	33.94	50.00	-16.06	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)

110.0 dBuV





RD1202000-C55-154MG

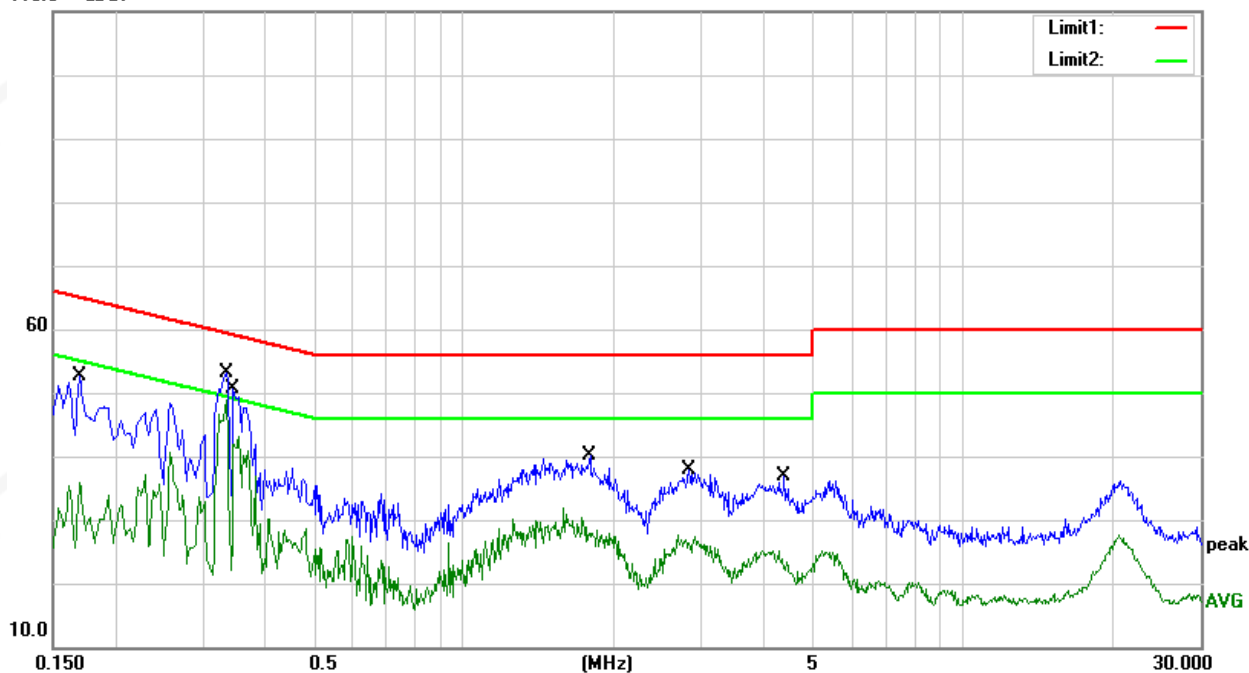
Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode :	Mode 39		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1700	32.85	19.88	52.73	64.96	-12.23	QP
2	0.1700	20.75	19.88	40.63	54.96	-14.33	AVG
3	0.3340	33.22	19.83	53.05	59.35	-6.30	QP
4	0.3340	16.75	19.83	36.58	49.35	-12.77	AVG
5	0.3460	30.77	19.82	50.59	59.06	-8.47	QP
6	0.3460	23.37	19.82	43.19	49.06	-5.87	AVG
7	1.7940	20.36	19.80	40.16	56.00	-15.84	QP
8	1.7940	12.06	19.80	31.86	46.00	-14.14	AVG
9	2.8260	18.12	19.82	37.94	56.00	-18.06	QP
10	2.8260	7.78	19.82	27.60	46.00	-18.40	AVG
11	4.3940	16.95	19.82	36.77	56.00	-19.23	QP
12	4.3940	5.77	19.82	25.59	46.00	-20.41	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)

110.0 dBuV





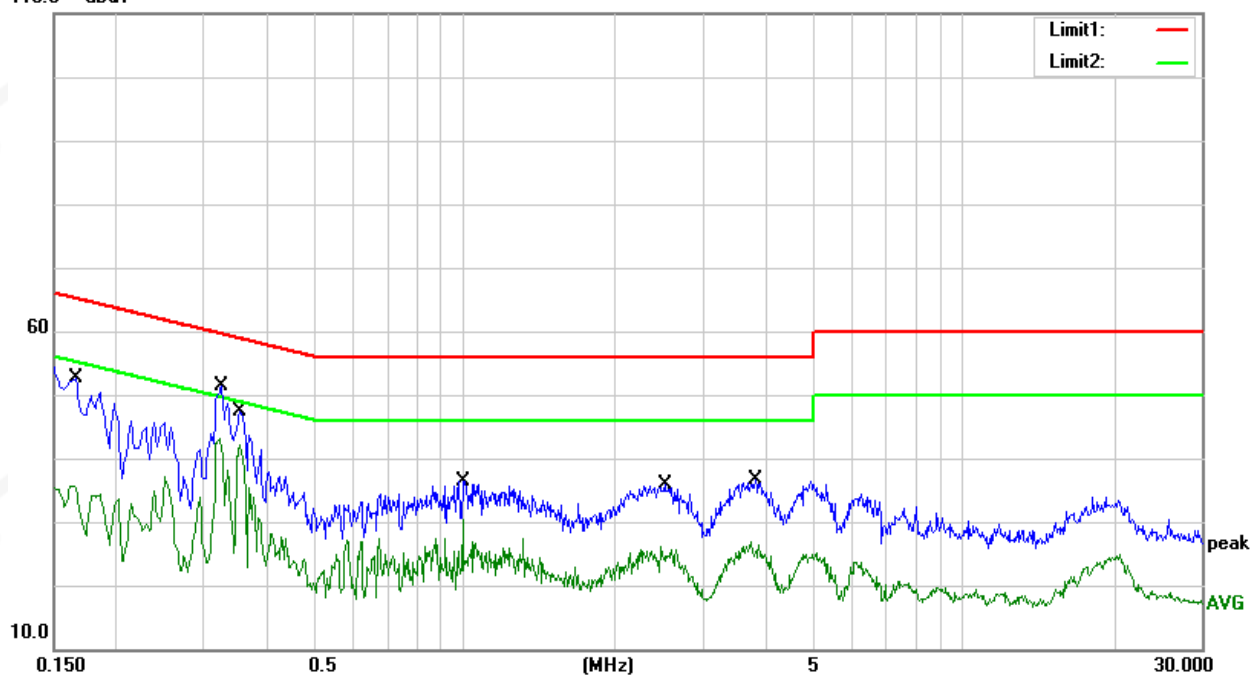
Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode :	Mode 39		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1660	32.78	19.83	52.61	65.16	-12.55	QP
2	0.1660	17.27	19.83	37.10	55.16	-18.06	AVG
3	0.3260	31.52	19.76	51.28	59.55	-8.27	QP
4	0.3260	23.40	19.76	43.16	49.55	-6.39	AVG
5	0.3540	27.74	19.75	47.49	58.87	-11.38	QP
6	0.3540	22.34	19.75	42.09	48.87	-6.78	AVG
7	0.9980	16.60	19.81	36.41	56.00	-19.59	QP
8	0.9980	10.52	19.81	30.33	46.00	-15.67	AVG
9	2.5220	16.06	19.80	35.86	56.00	-20.14	QP
10	2.5220	6.36	19.80	26.16	46.00	-19.84	AVG
11	3.8260	16.81	19.82	36.63	56.00	-19.37	QP
12	3.8260	6.94	19.82	26.76	46.00	-19.24	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)

110.0 dBuV





3.2 RADIATED EMISSION AND 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&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	74	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			

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:

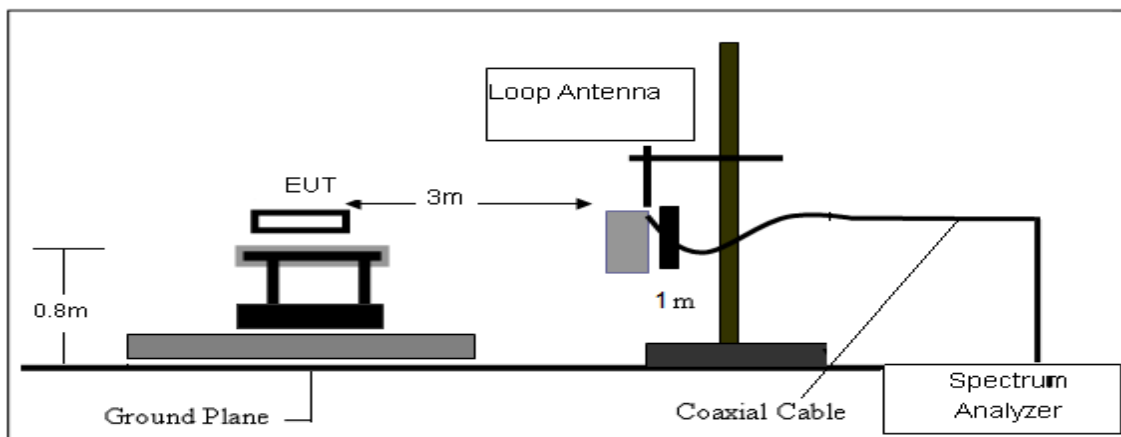
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 DEVIATION FROM TEST STANDARD

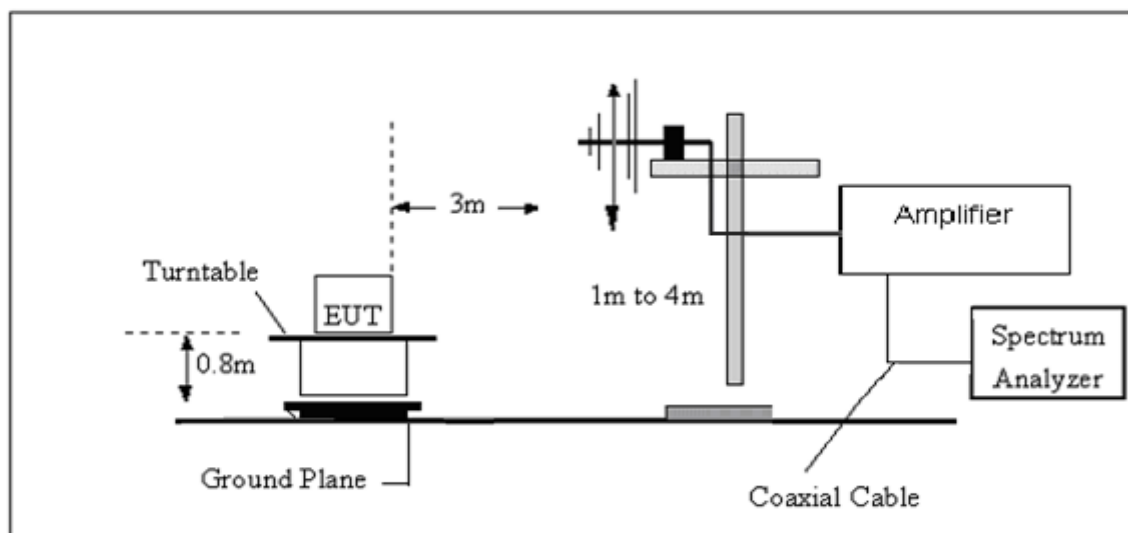
No deviation

3.2.4 TEST SETUP

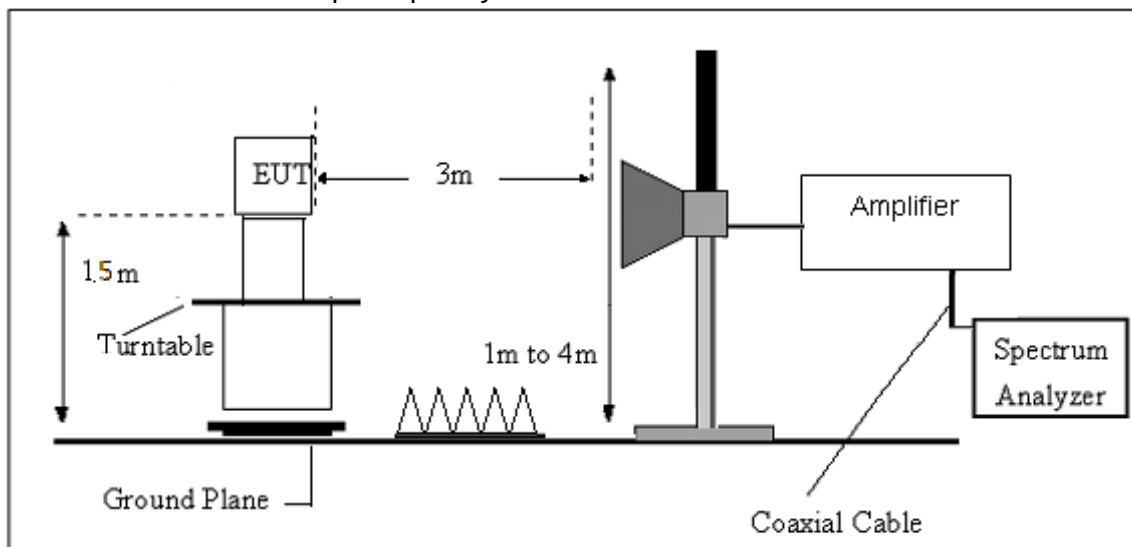
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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





3.2.5 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.

3.2.6 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

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



3.2.7 TEST RESULTS (Between 9KHz – 30 MHz)

Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Polarization :	--
Test Mode:	TX Mode		

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

Note:

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

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

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



3.2.8 TEST RESULTS (Between 30MHz – 1GHz)

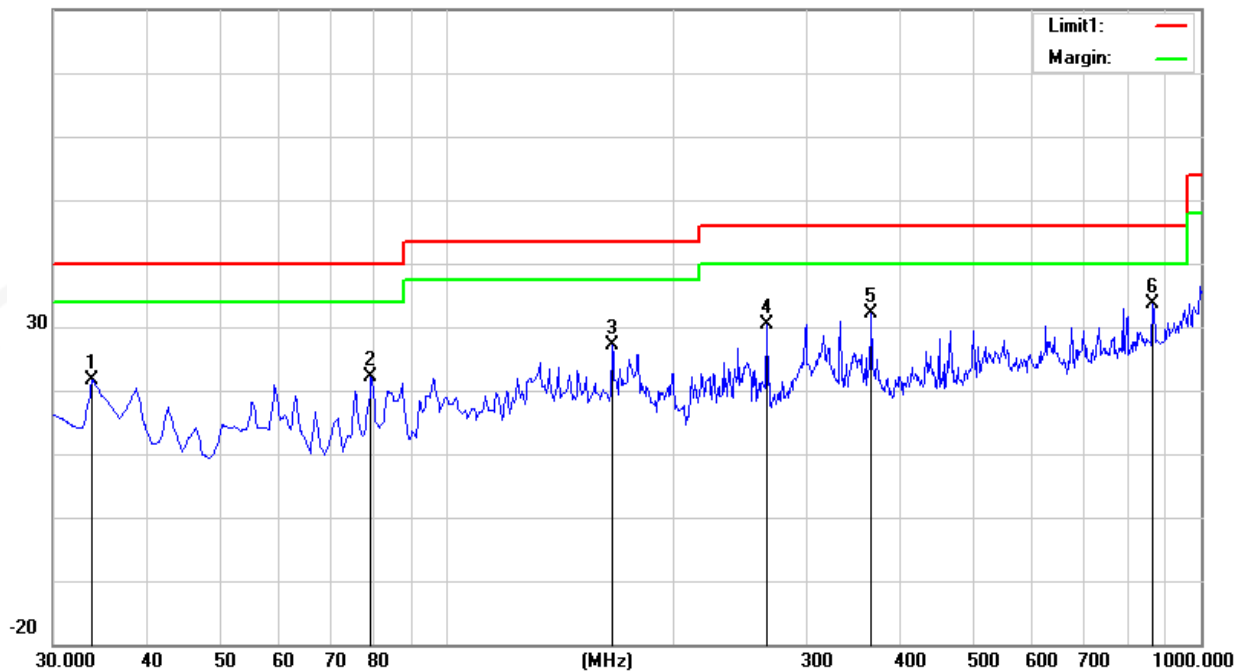
Temperature	23.4℃	Relative Humidity:	60%
Test Voltage	AC 120V/60Hz	Polarization :	Horizontal
Test Mode	Mode 1~38(Mode 20 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.8800	36.43	-14.80	21.63	40.00	-18.37	peak
2	79.4700	45.30	-23.11	22.19	40.00	-17.81	peak
3	165.8000	46.53	-19.40	27.13	43.50	-16.37	peak
4	265.7100	45.09	-14.83	30.26	46.00	-15.74	peak
5	365.6200	44.72	-12.66	32.06	46.00	-13.94	peak
6	865.1700	34.06	-0.48	33.58	46.00	-12.42	peak

Remark:

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

80.0 dBuV/m





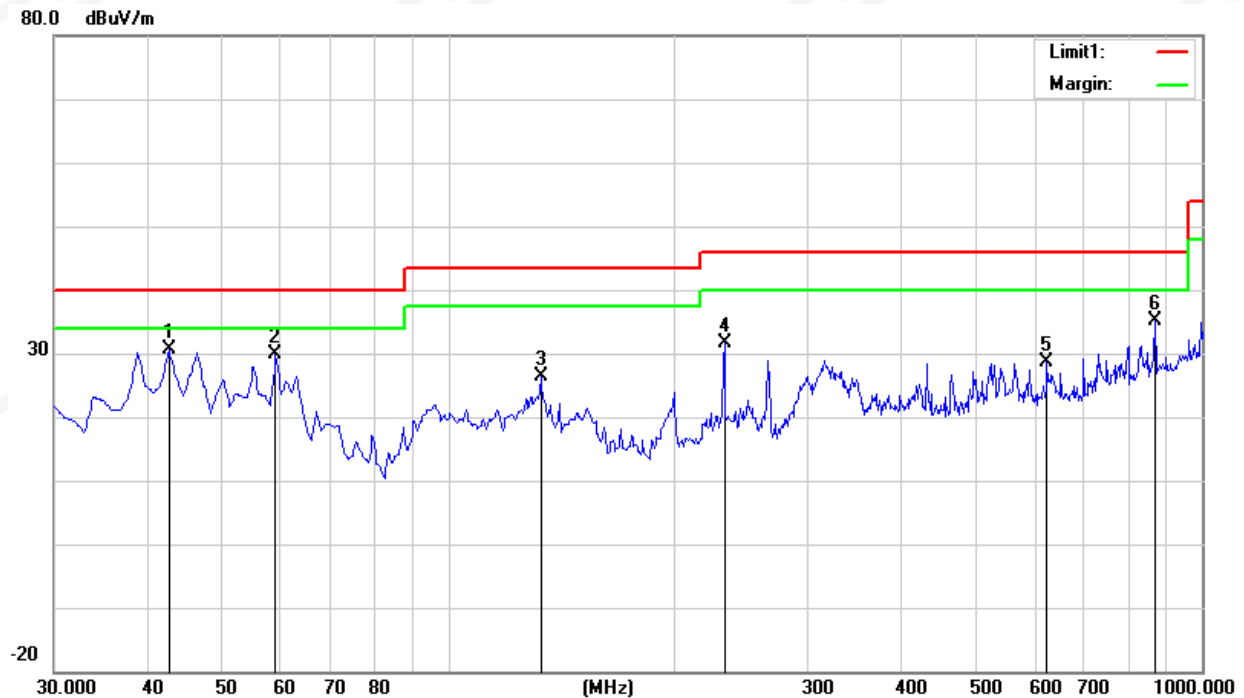
Temperature	23.4℃	Relative Humidity:	60%
Test Voltage	AC 120V/60Hz	Polarization:	Vertical
Test Mode	Mode 1~38(Mode 20 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	42.6100	50.05	-19.44	30.61	40.00	-9.39	peak
2	59.1000	55.56	-25.73	29.83	40.00	-10.17	peak
3	132.8200	44.46	-18.17	26.29	43.50	-17.21	peak
4	232.7300	50.47	-18.89	31.58	46.00	-14.42	peak
5	624.6100	33.87	-5.29	28.58	46.00	-17.42	peak
6	867.1100	35.60	-0.50	35.10	46.00	-10.90	peak

Remark:

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

4. 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 (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
Low Channel (802.11n40/ 5190 MHz)										
3252.58	43.93	44.70	6.70	28.20	-9.80	34.13	68.20	-34.07	Pk	Vertical
3252.58	42.04	44.70	6.70	28.20	-9.80	32.24	54.00	-21.76	AV	Vertical
3247.08	43.83	44.70	6.70	28.20	-9.80	34.03	68.20	-34.17	Pk	Horizontal
3247.08	41.36	44.70	6.70	28.20	-9.80	31.56	54.00	-22.44	AV	Horizontal
3991.09	39.10	44.20	7.90	29.70	-6.60	32.50	74.00	-41.50	Pk	Vertical
3991.09	35.98	44.20	7.90	29.70	-6.60	29.38	54.00	-24.62	AV	Vertical
3999.32	40.12	44.20	7.90	29.70	-6.60	33.52	74.00	-40.48	Pk	Horizontal
3999.32	37.12	44.20	7.90	29.70	-6.60	30.52	54.00	-23.48	AV	Horizontal
7223.34	37.59	43.50	11.40	35.50	3.40	40.99	68.20	-27.21	Pk	Vertical
7223.34	34.37	43.50	11.40	35.50	3.40	37.77	54.00	-16.23	AV	Vertical
7221.96	36.63	43.50	11.40	35.50	3.40	40.03	68.20	-28.17	Pk	Horizontal
7221.96	33.72	43.50	11.40	35.50	3.40	37.12	54.00	-16.88	AV	Horizontal
10360.41	38.84	44.50	13.80	38.80	8.10	46.94	68.20	-21.26	Pk	Vertical
10360.41	37.04	44.50	13.80	38.80	8.10	45.14	54.00	-8.86	AV	Vertical
10360.20	40.16	44.50	13.80	38.80	8.10	48.26	68.20	-19.94	Pk	Horizontal
10360.20	36.15	44.50	13.80	38.80	8.10	44.25	54.00	-9.75	AV	Horizontal
11030.97	33.64	43.60	14.30	39.50	10.20	43.84	74.00	-30.16	Pk	Vertical
11030.97	30.09	43.60	14.30	39.50	10.20	40.29	54.00	-13.71	AV	Vertical
11022.86	33.96	43.60	14.30	39.50	10.20	44.16	74.00	-29.84	Pk	Horizontal
11022.86	30.41	43.60	14.30	39.50	10.20	40.61	54.00	-13.39	AV	Horizontal
13297.37	31.77	42.60	15.90	38.90	12.20	43.97	74.00	-30.03	Pk	Vertical
13297.37	29.24	42.60	15.90	38.90	12.20	41.44	54.00	-12.56	AV	Vertical
13282.40	32.74	42.60	15.90	38.90	12.20	44.94	74.00	-29.06	Pk	Horizontal
13282.40	29.66	42.60	15.90	38.90	12.20	41.86	54.00	-12.14	AV	Horizontal
High Channel (802.11n40/ 5230 MHz)										
3257.39	44.85	44.70	6.70	28.20	-9.80	35.05	68.20	-33.15	Pk	Vertical
3257.39	40.87	44.70	6.70	28.20	-9.80	31.07	54.00	-22.93	AV	Vertical
3260.14	44.19	44.70	6.70	28.20	-9.80	34.39	74.00	-39.61	Pk	Horizontal
3260.14	40.81	44.70	6.70	28.20	-9.80	31.01	54.00	-22.99	AV	Horizontal
3997.96	39.85	44.20	7.90	29.70	-6.60	33.25	74.00	-40.75	Pk	Vertical
3997.96	36.67	44.20	7.90	29.70	-6.60	30.07	54.00	-23.93	AV	Vertical
3990.32	39.39	44.20	7.90	29.70	-6.60	32.79	74.00	-41.21	Pk	Horizontal
3990.32	35.69	44.20	7.90	29.70	-6.60	29.09	54.00	-24.91	AV	Horizontal
7222.04	37.27	43.50	11.40	35.50	3.40	40.67	68.20	-27.53	Pk	Vertical
7222.04	34.63	43.50	11.40	35.50	3.40	38.03	54.00	-15.97	AV	Vertical
7227.81	37.15	43.50	11.40	35.50	3.40	40.55	68.20	-27.65	Pk	Horizontal
7227.81	34.37	43.50	11.40	35.50	3.40	37.77	54.00	-16.23	AV	Horizontal
10480.14	39.69	44.50	13.80	38.80	8.10	47.79	68.20	-20.41	Pk	Vertical
10480.14	36.83	44.50	13.80	38.80	8.10	44.93	54.00	-9.07	AV	Vertical
10480.29	39.15	44.50	13.80	38.80	8.10	47.25	68.20	-20.95	Pk	Horizontal
10480.29	37.13	44.50	13.80	38.80	8.10	45.23	54.00	-8.77	AV	Horizontal
11030.21	32.72	43.60	14.30	39.50	10.20	42.92	74.00	-31.08	Pk	Vertical
11030.21	29.86	43.60	14.30	39.50	10.20	40.06	54.00	-13.94	AV	Vertical
11031.04	33.11	43.60	14.30	39.50	10.20	43.31	74.00	-30.69	Pk	Horizontal
11031.04	30.99	43.60	14.30	39.50	10.20	41.19	54.00	-12.81	AV	Horizontal
13293.92	32.82	42.60	15.90	38.90	12.20	45.02	74.00	-28.98	Pk	Vertical
13293.92	29.87	42.60	15.90	38.90	12.20	42.07	54.00	-11.93	AV	Vertical
13281.37	31.76	42.60	15.90	38.90	12.20	43.96	74.00	-30.04	Pk	Horizontal
13281.37	28.93	42.60	15.90	38.90	12.20	41.13	54.00	-12.87	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 (802.11ac40/ 5270 MHz)										
3260.84	43.86	44.70	6.70	28.20	-9.80	34.06	74.00	-39.94	Pk	Vertical
3260.84	41.32	44.70	6.70	28.20	-9.80	31.52	54.00	-22.48	AV	Vertical
3264.24	44.62	44.70	6.70	28.20	-9.80	34.82	74.00	-39.18	Pk	Horizontal
3264.24	41.48	44.70	6.70	28.20	-9.80	31.68	54.00	-22.32	AV	Horizontal
3999.73	39.68	44.20	7.90	29.70	-6.60	33.08	74.00	-40.92	Pk	Vertical
3999.73	36.20	44.20	7.90	29.70	-6.60	29.60	54.00	-24.40	AV	Vertical
3984.00	39.68	44.20	7.90	29.70	-6.60	33.08	74.00	-40.92	Pk	Horizontal
3984.00	36.47	44.20	7.90	29.70	-6.60	29.87	54.00	-24.13	AV	Horizontal
7217.39	37.25	43.50	11.40	35.50	3.40	40.65	68.20	-27.55	Pk	Vertical
7217.39	34.16	43.50	11.40	35.50	3.40	37.56	54.00	-16.44	AV	Vertical
7220.49	37.36	43.50	11.40	35.50	3.40	40.76	68.20	-27.44	Pk	Horizontal
7220.49	33.95	43.50	11.40	35.50	3.40	37.35	54.00	-16.65	AV	Horizontal
10360.11	39.19	44.50	13.80	38.80	8.10	47.29	68.20	-20.91	Pk	Vertical
10360.11	36.86	44.50	13.80	38.80	8.10	44.96	54.00	-9.04	AV	Vertical
10360.16	39.92	44.50	13.80	38.80	8.10	48.02	68.20	-20.18	Pk	Horizontal
10360.16	36.41	44.50	13.80	38.80	8.10	44.51	54.00	-9.49	AV	Horizontal
11025.18	34.13	43.60	14.30	39.50	10.20	44.33	74.00	-29.67	Pk	Vertical
11025.18	30.53	43.60	14.30	39.50	10.20	40.73	54.00	-13.27	AV	Vertical
11035.17	33.85	43.60	14.30	39.50	10.20	44.05	74.00	-29.95	Pk	Horizontal
11035.17	30.58	43.60	14.30	39.50	10.20	40.78	54.00	-13.22	AV	Horizontal
13290.76	31.94	42.60	15.90	38.90	12.20	44.14	74.00	-29.86	Pk	Vertical
13290.76	29.86	42.60	15.90	38.90	12.20	42.06	54.00	-11.94	AV	Vertical
13284.90	32.94	42.60	15.90	38.90	12.20	45.14	74.00	-28.86	Pk	Horizontal
13284.90	29.45	42.60	15.90	38.90	12.20	41.65	54.00	-12.35	AV	Horizontal
High Channel (802.11ac40/ 5310 MHz)										
3252.04	45.02	44.70	6.70	28.20	-9.80	35.22	68.20	-32.98	Pk	Vertical
3252.04	40.74	44.70	6.70	28.20	-9.80	30.94	54.00	-23.06	AV	Vertical
3264.50	44.79	44.70	6.70	28.20	-9.80	34.99	74.00	-39.01	Pk	Horizontal
3264.50	40.89	44.70	6.70	28.20	-9.80	31.09	54.00	-22.91	AV	Horizontal
3989.14	39.31	44.20	7.90	29.70	-6.60	32.71	74.00	-41.29	Pk	Vertical
3989.14	36.34	44.20	7.90	29.70	-6.60	29.74	54.00	-24.26	AV	Vertical
3997.06	39.72	44.20	7.90	29.70	-6.60	33.12	74.00	-40.88	Pk	Horizontal
3997.06	36.18	44.20	7.90	29.70	-6.60	29.58	54.00	-24.42	AV	Horizontal
7231.61	37.13	43.50	11.40	35.50	3.40	40.53	68.20	-27.67	Pk	Vertical
7231.61	33.80	43.50	11.40	35.50	3.40	37.20	54.00	-16.80	AV	Vertical
7220.96	37.59	43.50	11.40	35.50	3.40	40.99	68.20	-27.21	Pk	Horizontal
7220.96	34.39	43.50	11.40	35.50	3.40	37.79	54.00	-16.21	AV	Horizontal
10480.23	39.23	44.50	13.80	38.80	8.10	47.33	68.20	-20.87	Pk	Vertical
10480.23	36.05	44.50	13.80	38.80	8.10	44.15	54.00	-9.85	AV	Vertical
10480.18	39.51	44.50	13.80	38.80	8.10	47.61	68.20	-20.59	Pk	Horizontal
10480.18	35.72	44.50	13.80	38.80	8.10	43.82	54.00	-10.18	AV	Horizontal
11023.97	33.63	43.60	14.30	39.50	10.20	43.83	74.00	-30.17	Pk	Vertical
11023.97	29.75	43.60	14.30	39.50	10.20	39.95	54.00	-14.05	AV	Vertical
11016.60	33.16	43.60	14.30	39.50	10.20	43.36	74.00	-30.64	Pk	Horizontal
11016.60	30.53	43.60	14.30	39.50	10.20	40.73	54.00	-13.27	AV	Horizontal
13296.73	32.49	42.60	15.90	38.90	12.20	44.69	74.00	-29.31	Pk	Vertical
13296.73	28.98	42.60	15.90	38.90	12.20	41.18	54.00	-12.82	AV	Vertical
13294.91	32.45	42.60	15.90	38.90	12.20	44.65	74.00	-29.35	Pk	Horizontal
13294.91	28.61	42.60	15.90	38.90	12.20	40.81	54.00	-13.19	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

U-NII 2C										
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 (802.11ax20/ 5500 MHz)										
3252.34	44.34	44.70	6.70	28.20	-9.80	34.54	68.20	-33.66	Pk	Vertical
3252.34	40.83	44.70	6.70	28.20	-9.80	31.03	54.00	-22.97	AV	Vertical
3247.57	44.50	44.70	6.70	28.20	-9.80	34.70	68.20	-33.50	Pk	Horizontal
3247.57	42.17	44.70	6.70	28.20	-9.80	32.37	54.00	-21.63	AV	Horizontal
3983.09	40.03	44.20	7.90	29.70	-6.60	33.43	74.00	-40.57	Pk	Vertical
3983.09	35.87	44.20	7.90	29.70	-6.60	29.27	54.00	-24.73	AV	Vertical
3999.77	39.37	44.20	7.90	29.70	-6.60	32.77	74.00	-41.23	Pk	Horizontal
3999.77	36.12	44.20	7.90	29.70	-6.60	29.52	54.00	-24.48	AV	Horizontal
7225.93	37.58	43.50	11.40	35.50	3.40	40.98	68.20	-27.22	Pk	Vertical
7225.93	34.00	43.50	11.40	35.50	3.40	37.40	54.00	-16.60	AV	Vertical
7229.69	37.86	43.50	11.40	35.50	3.40	41.26	68.20	-26.94	Pk	Horizontal
7229.69	34.04	43.50	11.40	35.50	3.40	37.44	54.00	-16.56	AV	Horizontal
10360.42	39.84	44.50	13.80	38.80	8.10	47.94	68.20	-20.26	Pk	Vertical
10360.42	36.65	44.50	13.80	38.80	8.10	44.75	54.00	-9.25	AV	Vertical
10360.35	38.93	44.50	13.80	38.80	8.10	47.03	68.20	-21.17	Pk	Horizontal
10360.35	37.07	44.50	13.80	38.80	8.10	45.17	54.00	-8.83	AV	Horizontal
11029.02	32.81	43.60	14.30	39.50	10.20	43.01	74.00	-30.99	Pk	Vertical
11029.02	30.51	43.60	14.30	39.50	10.20	40.71	54.00	-13.29	AV	Vertical
11020.29	33.95	43.60	14.30	39.50	10.20	44.15	74.00	-29.85	Pk	Horizontal
11020.29	30.75	43.60	14.30	39.50	10.20	40.95	54.00	-13.05	AV	Horizontal
13295.23	32.42	42.60	15.90	38.90	12.20	44.62	74.00	-29.38	Pk	Vertical
13295.23	29.17	42.60	15.90	38.90	12.20	41.37	54.00	-12.63	AV	Vertical
13295.68	32.39	42.60	15.90	38.90	12.20	44.59	74.00	-29.41	Pk	Horizontal
13295.68	28.70	42.60	15.90	38.90	12.20	40.90	54.00	-13.10	AV	Horizontal
Mid Channel (802.11ax20/ 5580 MHz)										
3246.26	43.97	44.70	6.70	28.20	-9.80	34.17	68.20	-34.03	Pk	Vertical
3246.26	41.60	44.70	6.70	28.20	-9.80	31.80	54.00	-22.20	AV	Vertical
3248.51	45.05	44.70	6.70	28.20	-9.80	35.25	68.20	-32.95	Pk	Horizontal
3248.51	41.01	44.70	6.70	28.20	-9.80	31.21	54.00	-22.79	AV	Horizontal
3995.22	39.95	44.20	7.90	29.70	-6.60	33.35	74.00	-40.65	Pk	Vertical
3995.22	36.39	44.20	7.90	29.70	-6.60	29.79	54.00	-24.21	AV	Vertical
3983.64	39.17	44.20	7.90	29.70	-6.60	32.57	74.00	-41.43	Pk	Horizontal
3983.64	35.87	44.20	7.90	29.70	-6.60	29.27	54.00	-24.73	AV	Horizontal
7231.58	36.62	43.50	11.40	35.50	3.40	40.02	68.20	-28.18	Pk	Vertical
7231.58	33.63	43.50	11.40	35.50	3.40	37.03	54.00	-16.97	AV	Vertical
7220.23	37.12	43.50	11.40	35.50	3.40	40.52	68.20	-27.68	Pk	Horizontal
7220.23	34.94	43.50	11.40	35.50	3.40	38.34	54.00	-15.66	AV	Horizontal
10400.04	38.72	44.50	13.80	38.80	8.10	46.82	68.20	-21.38	Pk	Vertical
10400.04	36.56	44.50	13.80	38.80	8.10	44.66	54.00	-9.34	AV	Vertical
10400.32	39.72	44.50	13.80	38.80	8.10	47.82	68.20	-20.38	Pk	Horizontal
10400.32	35.99	44.50	13.80	38.80	8.10	44.09	54.00	-9.91	AV	Horizontal
11018.96	33.93	43.60	14.30	39.50	10.20	44.13	74.00	-29.87	Pk	Vertical
11018.96	30.13	43.60	14.30	39.50	10.20	40.33	54.00	-13.67	AV	Vertical
11034.73	34.18	43.60	14.30	39.50	10.20	44.38	74.00	-29.62	Pk	Horizontal
11034.73	31.16	43.60	14.30	39.50	10.20	41.36	54.00	-12.64	AV	Horizontal
13281.28	31.89	42.60	15.90	38.90	12.20	44.09	74.00	-29.91	Pk	Vertical
13281.28	28.77	42.60	15.90	38.90	12.20	40.97	54.00	-13.03	AV	Vertical
13284.70	32.16	42.60	15.90	38.90	12.20	44.36	74.00	-29.64	Pk	Horizontal
13284.70	29.02	42.60	15.90	38.90	12.20	41.22	54.00	-12.78	AV	Horizontal



High Channel (802.11ax20/ 5700 MHz)										
3245.56	44.09	44.70	6.70	28.20	-9.80	34.29	68.20	-33.91	Pk	Vertical
3245.56	41.84	44.70	6.70	28.20	-9.80	32.04	54.00	-21.96	AV	Vertical
3264.52	44.41	44.70	6.70	28.20	-9.80	34.61	74.00	-39.39	Pk	Horizontal
3264.52	41.46	44.70	6.70	28.20	-9.80	31.66	54.00	-22.34	AV	Horizontal
3984.80	39.93	44.20	7.90	29.70	-6.60	33.33	74.00	-40.67	Pk	Vertical
3984.80	36.21	44.20	7.90	29.70	-6.60	29.61	54.00	-24.39	AV	Vertical
3992.44	39.54	44.20	7.90	29.70	-6.60	32.94	74.00	-41.06	Pk	Horizontal
3992.44	35.99	44.20	7.90	29.70	-6.60	29.39	54.00	-24.61	AV	Horizontal
7217.89	36.97	43.50	11.40	35.50	3.40	40.37	68.20	-27.83	Pk	Vertical
7217.89	33.92	43.50	11.40	35.50	3.40	37.32	54.00	-16.68	AV	Vertical
7224.71	37.24	43.50	11.40	35.50	3.40	40.64	68.20	-27.56	Pk	Horizontal
7224.71	34.77	43.50	11.40	35.50	3.40	38.17	54.00	-15.83	AV	Horizontal
10480.11	39.92	44.50	13.80	38.80	8.10	48.02	68.20	-20.18	Pk	Vertical
10480.11	36.42	44.50	13.80	38.80	8.10	44.52	54.00	-9.48	AV	Vertical
10480.38	39.46	44.50	13.80	38.80	8.10	47.56	68.20	-20.64	Pk	Horizontal
10480.38	35.94	44.50	13.80	38.80	8.10	44.04	54.00	-9.96	AV	Horizontal
11023.08	32.95	43.60	14.30	39.50	10.20	43.15	74.00	-30.85	Pk	Vertical
11023.08	30.16	43.60	14.30	39.50	10.20	40.36	54.00	-13.64	AV	Vertical
11035.04	33.83	43.60	14.30	39.50	10.20	44.03	74.00	-29.97	Pk	Horizontal
11035.04	30.03	43.60	14.30	39.50	10.20	40.23	54.00	-13.77	AV	Horizontal
13285.43	32.08	42.60	15.90	38.90	12.20	44.28	74.00	-29.72	Pk	Vertical
13285.43	28.81	42.60	15.90	38.90	12.20	41.01	54.00	-12.99	AV	Vertical
13287.09	31.87	42.60	15.90	38.90	12.20	44.07	74.00	-29.93	Pk	Horizontal
13287.09	29.75	42.60	15.90	38.90	12.20	41.95	54.00	-12.05	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 (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
Low Channel (802.11ax20/ 5745 MHz)										
3249.67	43.82	44.70	6.70	28.20	-9.80	34.02	68.20	-34.18	Pk	Vertical
3249.67	41.84	44.70	6.70	28.20	-9.80	32.04	54.00	-21.96	AV	Vertical
3246.13	45.22	44.70	6.70	28.20	-9.80	35.42	68.20	-32.78	Pk	Horizontal
3246.13	41.32	44.70	6.70	28.20	-9.80	31.52	54.00	-22.48	AV	Horizontal
3984.58	40.06	44.20	7.90	29.70	-6.60	33.46	74.00	-40.54	Pk	Vertical
3984.58	35.70	44.20	7.90	29.70	-6.60	29.10	54.00	-24.90	AV	Vertical
3991.92	38.65	44.20	7.90	29.70	-6.60	32.05	74.00	-41.95	Pk	Horizontal
3991.92	36.75	44.20	7.90	29.70	-6.60	30.15	54.00	-23.85	AV	Horizontal
7233.95	37.20	43.50	11.40	35.50	3.40	40.60	68.20	-27.60	Pk	Vertical
7233.95	34.39	43.50	11.40	35.50	3.40	37.79	54.00	-16.21	AV	Vertical
7231.49	37.05	43.50	11.40	35.50	3.40	40.45	68.20	-27.75	Pk	Horizontal
7231.49	34.15	43.50	11.40	35.50	3.40	37.55	54.00	-16.45	AV	Horizontal
10360.00	40.04	44.50	13.80	38.80	8.10	48.14	68.20	-20.06	Pk	Vertical
10360.00	36.91	44.50	13.80	38.80	8.10	45.01	54.00	-8.99	AV	Vertical
10359.98	39.76	44.50	13.80	38.80	8.10	47.86	68.20	-20.34	Pk	Horizontal
10359.98	36.85	44.50	13.80	38.80	8.10	44.95	54.00	-9.05	AV	Horizontal
11019.76	33.33	43.60	14.30	39.50	10.20	43.53	74.00	-30.47	Pk	Vertical
11019.76	29.71	43.60	14.30	39.50	10.20	39.91	54.00	-14.09	AV	Vertical
11024.67	33.73	43.60	14.30	39.50	10.20	43.93	74.00	-30.07	Pk	Horizontal
11024.67	31.06	43.60	14.30	39.50	10.20	41.26	54.00	-12.74	AV	Horizontal
13294.22	32.00	42.60	15.90	38.90	12.20	44.20	74.00	-29.80	Pk	Vertical
13294.22	29.39	42.60	15.90	38.90	12.20	41.59	54.00	-12.41	AV	Vertical
13286.87	32.58	42.60	15.90	38.90	12.20	44.78	74.00	-29.22	Pk	Horizontal
13286.87	28.83	42.60	15.90	38.90	12.20	41.03	54.00	-12.97	AV	Horizontal
Mid Channel (802.11/ 5785MHz)										
3246.19	44.58	44.70	6.70	28.20	-9.80	34.78	68.20	-33.42	Pk	Vertical
3246.19	41.76	44.70	6.70	28.20	-9.80	31.96	54.00	-22.04	AV	Vertical
3257.32	44.15	44.70	6.70	28.20	-9.80	34.35	68.20	-33.85	Pk	Horizontal
3257.32	41.23	44.70	6.70	28.20	-9.80	31.43	54.00	-22.57	AV	Horizontal
3999.90	39.86	44.20	7.90	29.70	-6.60	33.26	74.00	-40.74	Pk	Vertical
3999.90	36.89	44.20	7.90	29.70	-6.60	30.29	54.00	-23.71	AV	Vertical
3982.47	39.00	44.20	7.90	29.70	-6.60	32.40	74.00	-41.60	Pk	Horizontal
3982.47	35.73	44.20	7.90	29.70	-6.60	29.13	54.00	-24.87	AV	Horizontal
7233.46	37.65	43.50	11.40	35.50	3.40	41.05	68.20	-27.15	Pk	Vertical
7233.46	34.68	43.50	11.40	35.50	3.40	38.08	54.00	-15.92	AV	Vertical
7217.97	36.76	43.50	11.40	35.50	3.40	40.16	68.20	-28.04	Pk	Horizontal
7217.97	33.79	43.50	11.40	35.50	3.40	37.19	54.00	-16.81	AV	Horizontal
10400.16	39.36	44.50	13.80	38.80	8.10	47.46	68.20	-20.74	Pk	Vertical
10400.16	36.04	44.50	13.80	38.80	8.10	44.14	54.00	-9.86	AV	Vertical
10400.07	38.75	44.50	13.80	38.80	8.10	46.85	68.20	-21.35	Pk	Horizontal
10400.07	36.71	44.50	13.80	38.80	8.10	44.81	54.00	-9.19	AV	Horizontal
11033.52	33.13	43.60	14.30	39.50	10.20	43.33	74.00	-30.67	Pk	Vertical
11033.52	30.88	43.60	14.30	39.50	10.20	41.08	54.00	-12.92	AV	Vertical
11016.80	33.16	43.60	14.30	39.50	10.20	43.36	74.00	-30.64	Pk	Horizontal
11016.80	30.70	43.60	14.30	39.50	10.20	40.90	54.00	-13.10	AV	Horizontal
13297.54	32.74	42.60	15.90	38.90	12.20	44.94	74.00	-29.06	Pk	Vertical
13297.54	28.97	42.60	15.90	38.90	12.20	41.17	54.00	-12.83	AV	Vertical
13282.40	32.67	42.60	15.90	38.90	12.20	44.87	74.00	-29.13	Pk	Horizontal
13282.40	30.03	42.60	15.90	38.90	12.20	42.23	54.00	-11.77	AV	Horizontal



High Channel (802.11/ 5825 MHz)										
3249.96	44.37	44.70	6.70	28.20	-9.80	34.57	68.20	-33.63	Pk	Vertical
3249.96	41.06	44.70	6.70	28.20	-9.80	31.26	54.00	-22.74	AV	Vertical
3258.76	44.64	44.70	6.70	28.20	-9.80	34.84	68.20	-33.36	Pk	Horizontal
3258.76	41.94	44.70	6.70	28.20	-9.80	32.14	54.00	-21.86	AV	Horizontal
3999.67	39.46	44.20	7.90	29.70	-6.60	32.86	74.00	-41.14	Pk	Vertical
3999.67	36.33	44.20	7.90	29.70	-6.60	29.73	54.00	-24.27	AV	Vertical
3981.63	39.51	44.20	7.90	29.70	-6.60	32.91	74.00	-41.09	Pk	Horizontal
3981.63	36.97	44.20	7.90	29.70	-6.60	30.37	54.00	-23.63	AV	Horizontal
7224.85	36.51	43.50	11.40	35.50	3.40	39.91	68.20	-28.29	Pk	Vertical
7224.85	34.27	43.50	11.40	35.50	3.40	37.67	54.00	-16.33	AV	Vertical
7230.21	36.44	43.50	11.40	35.50	3.40	39.84	68.20	-28.36	Pk	Horizontal
7230.21	34.01	43.50	11.40	35.50	3.40	37.41	54.00	-16.59	AV	Horizontal
10480.03	38.96	44.50	13.80	38.80	8.10	47.06	68.20	-21.14	Pk	Vertical
10480.03	36.63	44.50	13.80	38.80	8.10	44.73	54.00	-9.27	AV	Vertical
10480.06	39.28	44.50	13.80	38.80	8.10	47.38	68.20	-20.82	Pk	Horizontal
10480.06	35.93	44.50	13.80	38.80	8.10	44.03	54.00	-9.97	AV	Horizontal
11029.32	33.80	43.60	14.30	39.50	10.20	44.00	74.00	-30.00	Pk	Vertical
11029.32	29.69	43.60	14.30	39.50	10.20	39.89	54.00	-14.11	AV	Vertical
11028.15	33.65	43.60	14.30	39.50	10.20	43.85	74.00	-30.15	Pk	Horizontal
11028.15	29.97	43.60	14.30	39.50	10.20	40.17	54.00	-13.83	AV	Horizontal
13294.25	32.39	42.60	15.90	38.90	12.20	44.59	74.00	-29.41	Pk	Vertical
13294.25	29.88	42.60	15.90	38.90	12.20	42.08	54.00	-11.92	AV	Vertical
13297.56	31.55	42.60	15.90	38.90	12.20	43.75	74.00	-30.25	Pk	Horizontal
13297.56	29.81	42.60	15.90	38.90	12.20	42.01	54.00	-11.99	AV	Horizontal

Remark:

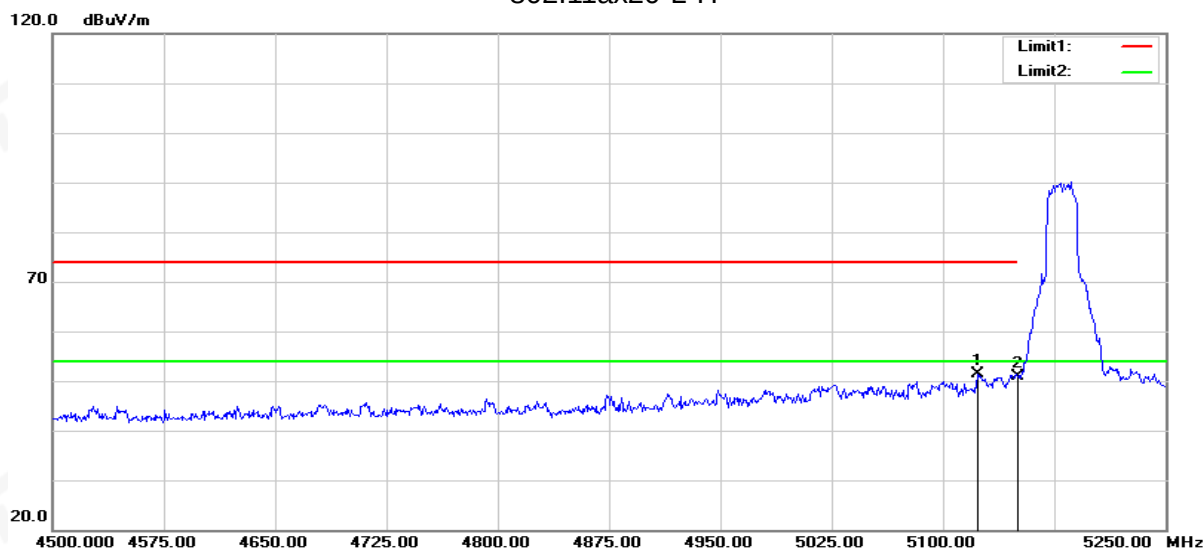
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, only worst mode was reported.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



3.2.9 TEST RESULTS(Band edge Requirements)

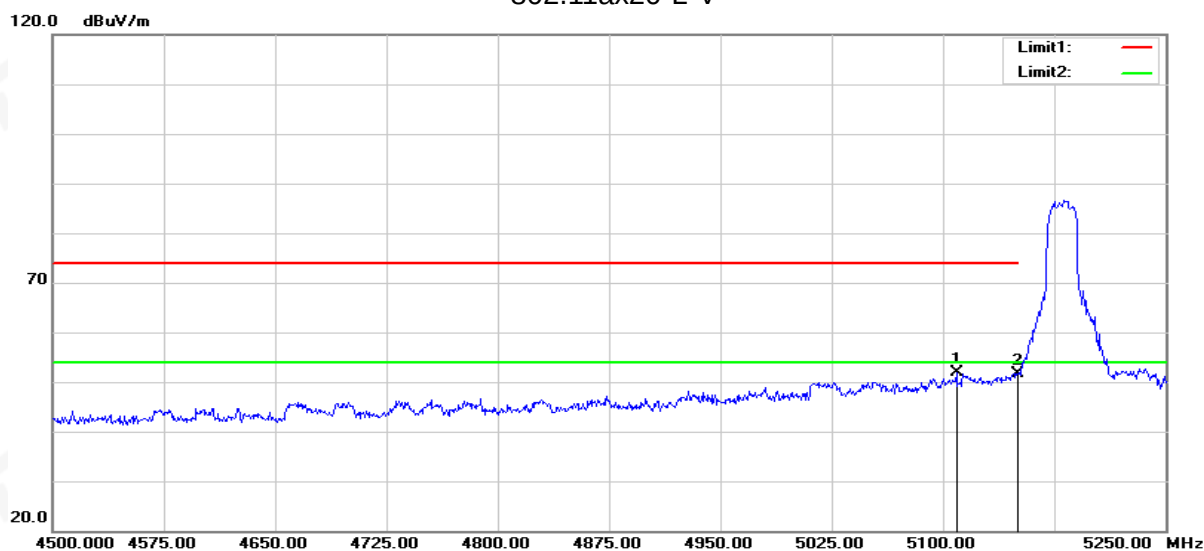
U-NII-1 (5.150-5.2500) GHz

802.11ax20-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5123.250	57.22	-5.74	51.48	54.00	-2.52	peak
2	5150.000	56.55	-5.73	50.82	54.00	-3.18	peak

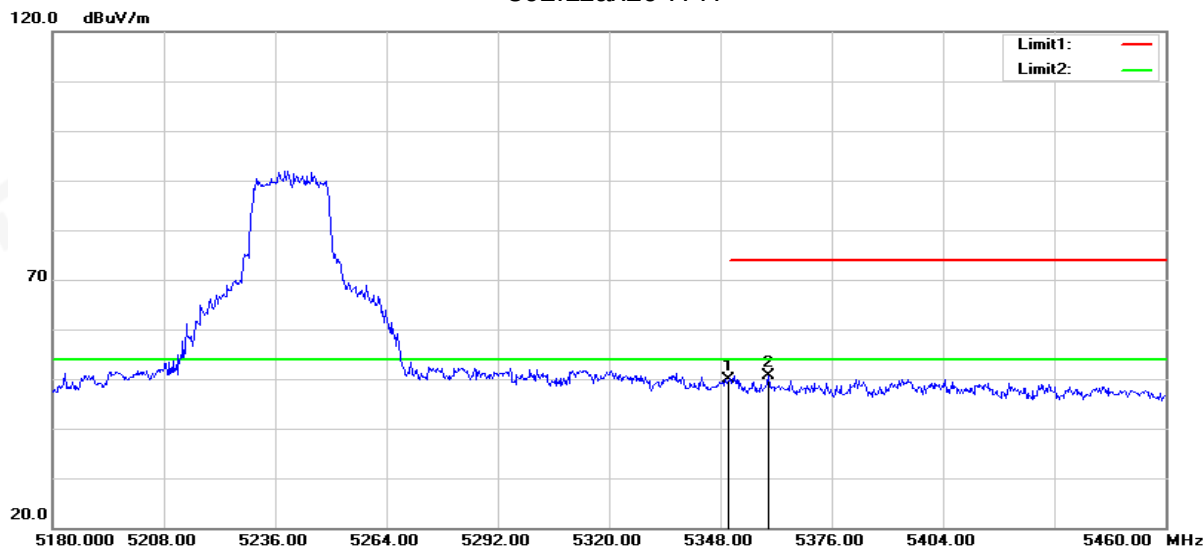
802.11ax20-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5109.000	57.53	-5.74	51.79	54.00	-2.21	peak
2	5150.000	57.45	-5.73	51.72	54.00	-2.28	peak

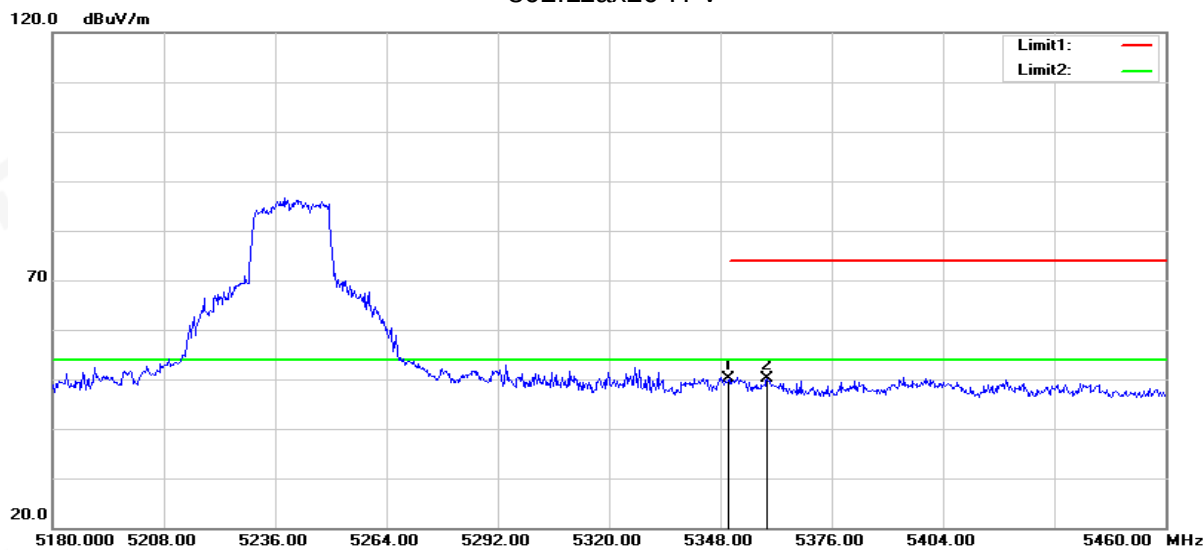


802.11ax20-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	55.10	-5.23	49.87	54.00	-4.13	peak
2	5360.040	55.85	-5.23	50.62	54.00	-3.38	peak

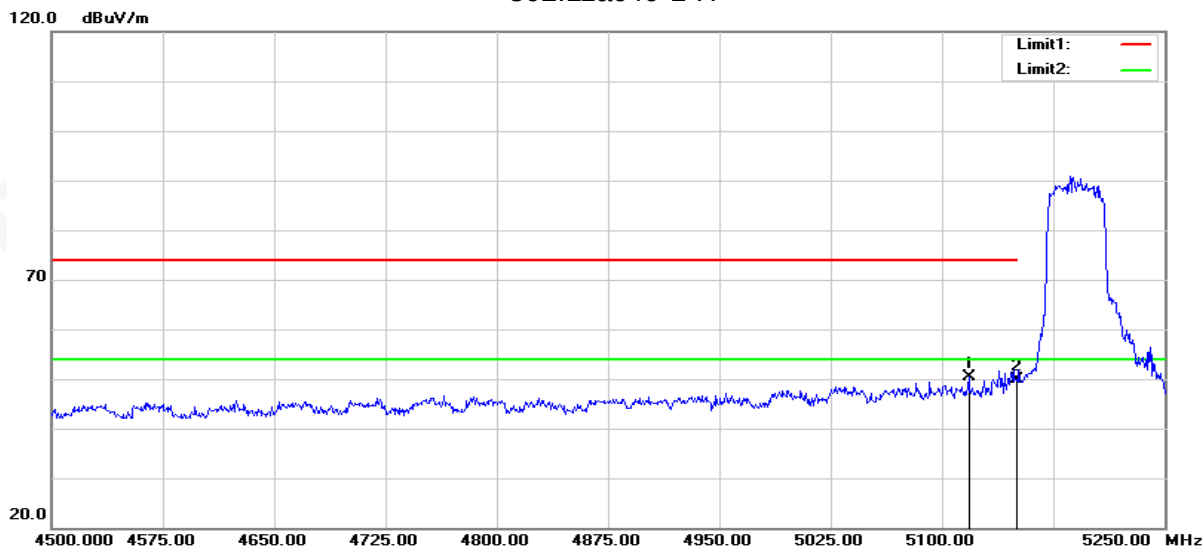
802.11ax20-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	55.24	-5.23	50.01	54.00	-3.99	peak
2	5359.760	55.35	-5.23	50.12	54.00	-3.88	peak

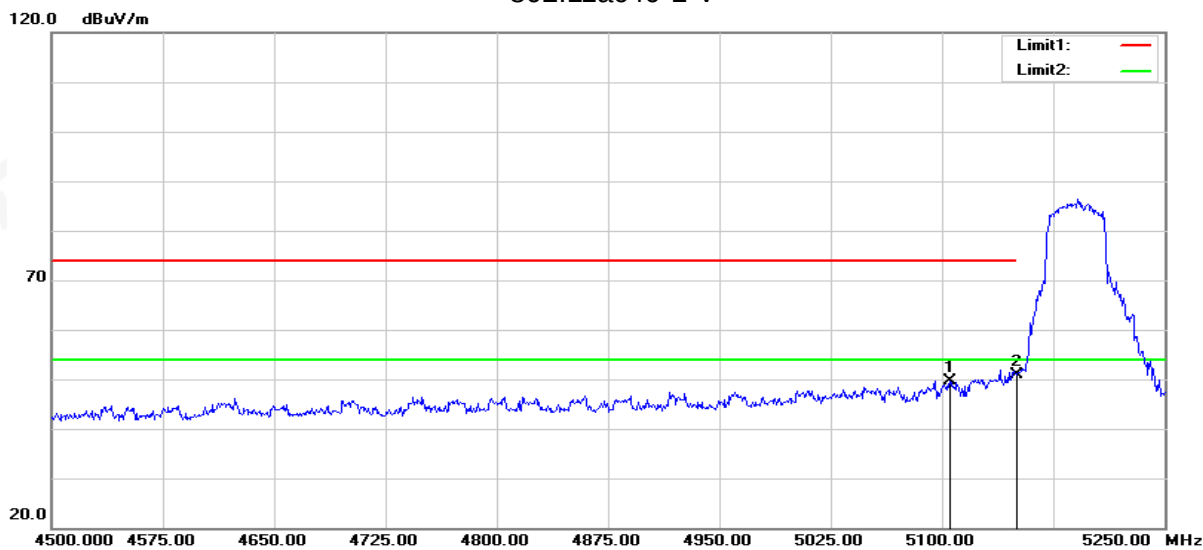


802.11ac40-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5118.000	56.05	-5.74	50.31	54.00	-3.69	peak
2	5150.000	55.69	-5.73	49.96	54.00	-4.04	peak

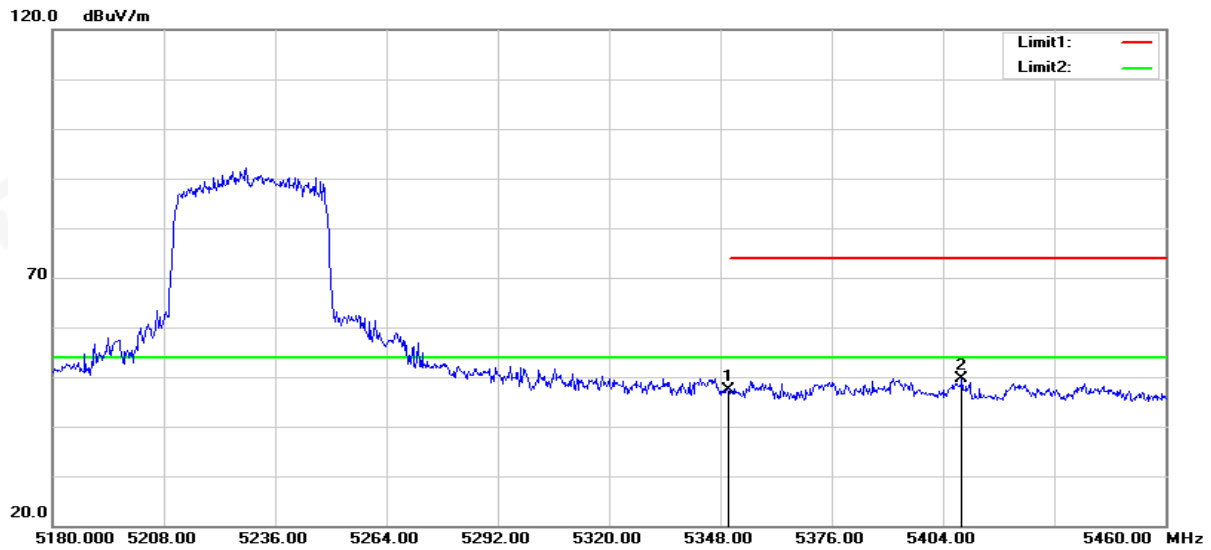
802.11ac40-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5105.250	55.38	-5.74	49.64	54.00	-4.36	peak
2	5150.000	56.51	-5.73	50.78	54.00	-3.22	peak

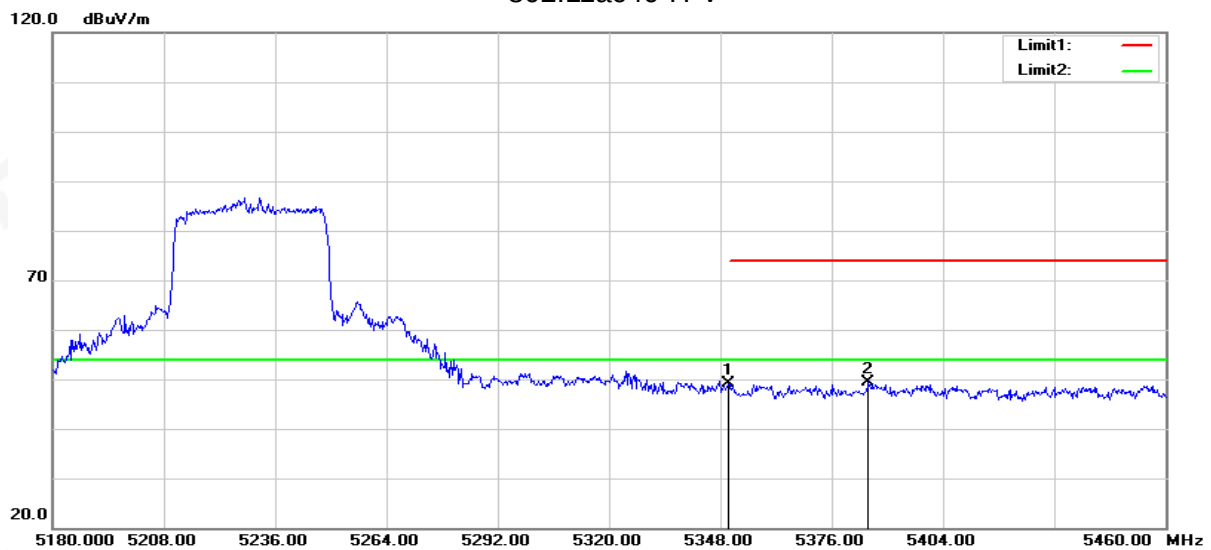


802.11ac40-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	52.50	-5.23	47.27	54.00	-6.73	peak
2	5408.760	54.88	-5.23	49.65	54.00	-4.35	peak

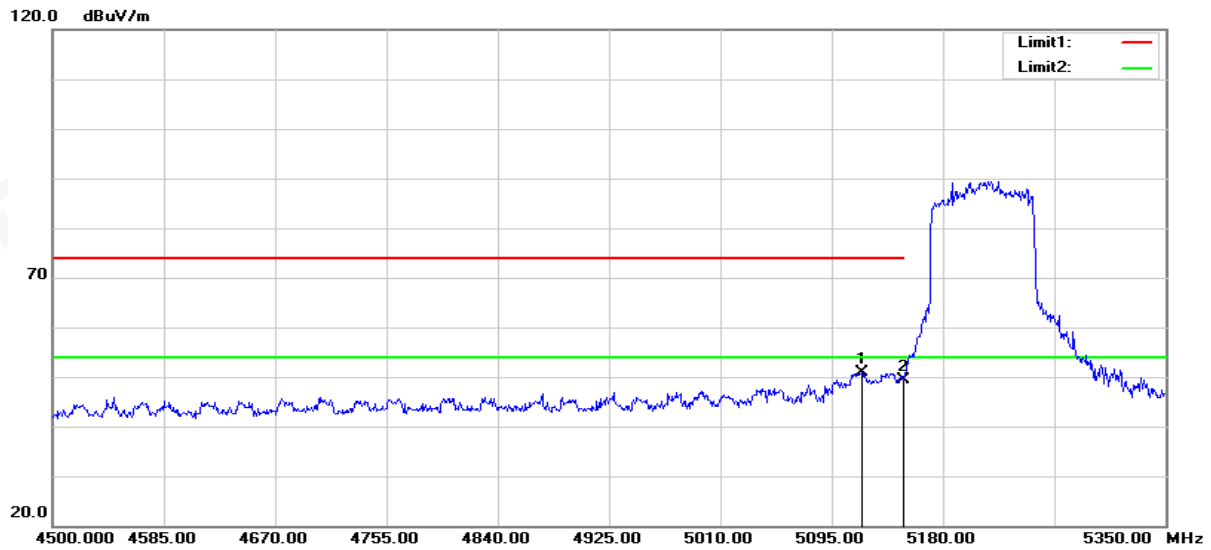
802.11ac40-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	54.31	-5.23	49.08	54.00	-4.92	peak
2	5385.240	54.54	-5.24	49.30	54.00	-4.70	peak

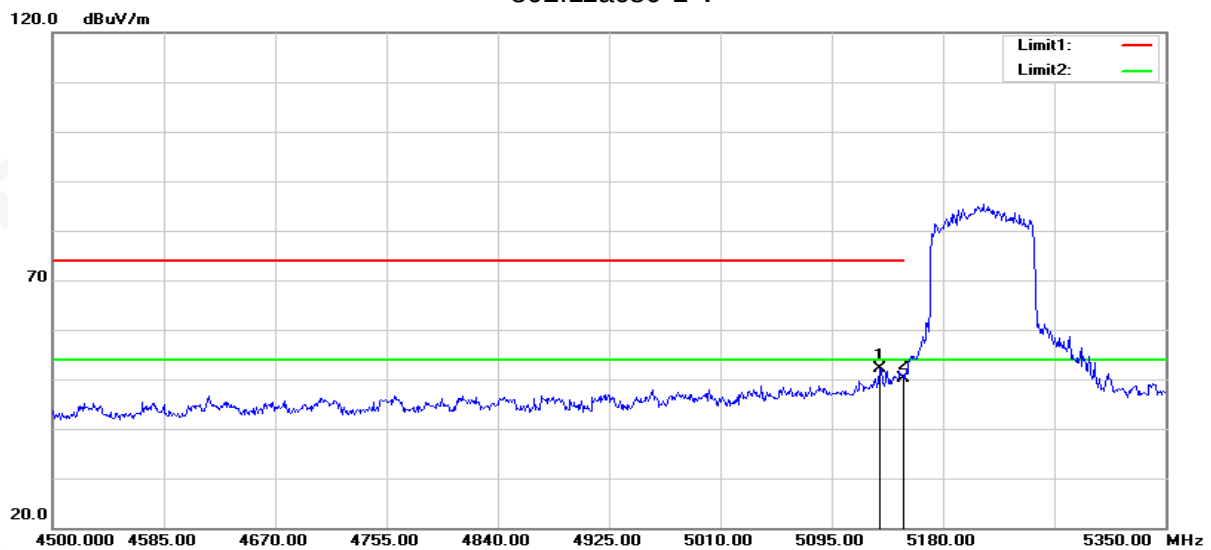


802.11ac80-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5117.950	56.68	-5.74	50.94	54.00	-3.06	peak
2	5150.000	55.22	-5.73	49.49	54.00	-4.51	peak

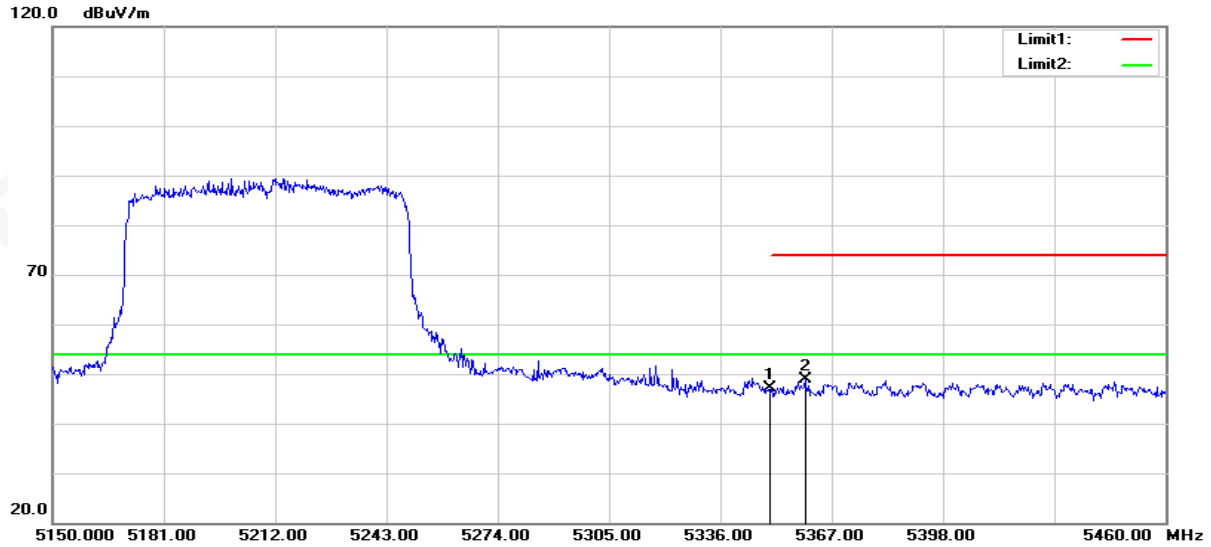
802.11ac80-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5131.550	57.95	-5.73	52.22	54.00	-1.78	peak
2	5150.000	55.88	-5.73	50.15	54.00	-3.85	peak

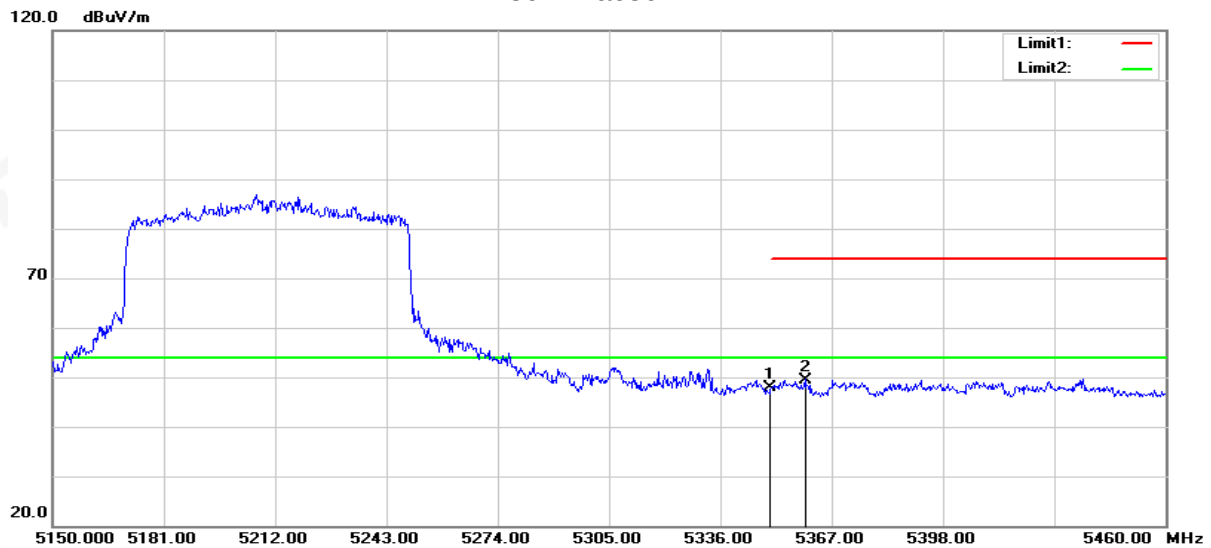


802.11ac80-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	52.42	-5.23	47.19	54.00	-6.81	peak
2	5359.560	54.04	-5.23	48.81	54.00	-5.19	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	53.22	-5.23	47.99	54.00	-6.01	peak
2	5359.560	54.73	-5.23	49.50	54.00	-4.50	peak

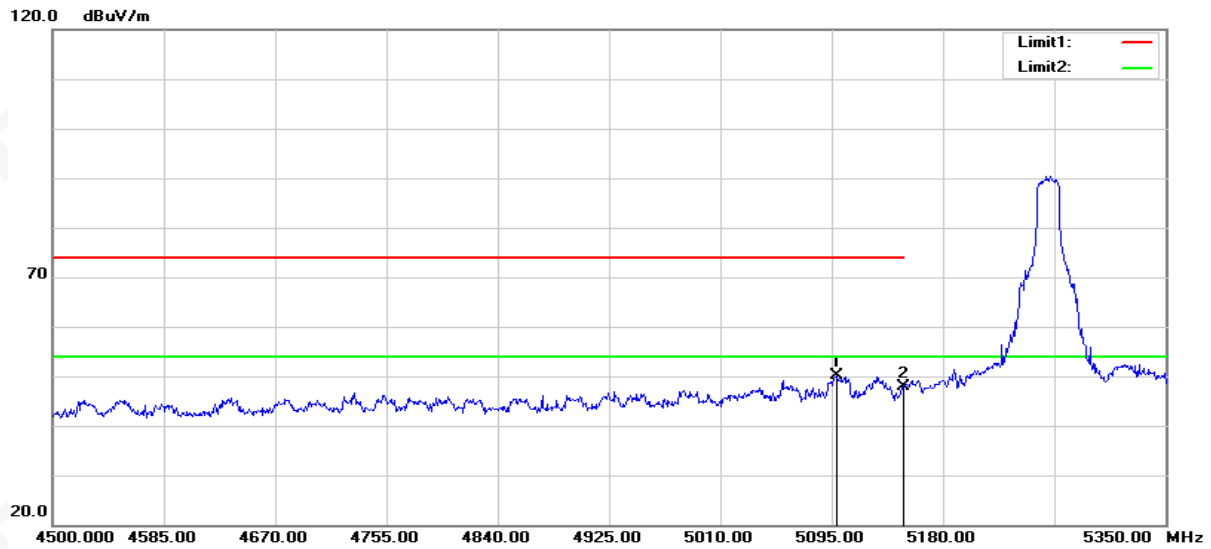
Remark:

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



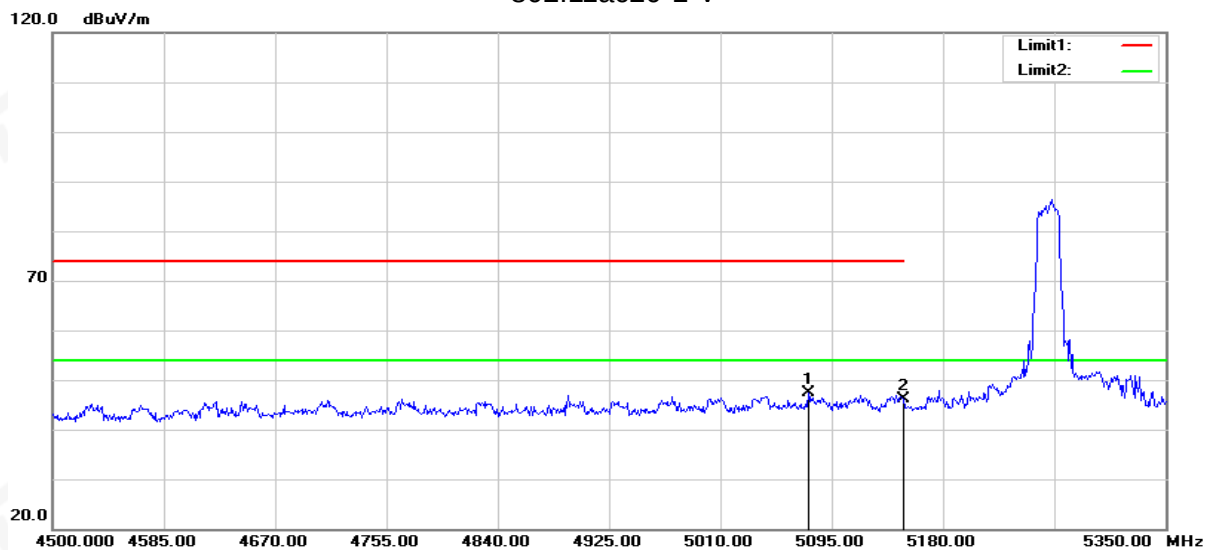
U-NII-2A 5250-5350MHz

802.11ac20-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5098.400	55.95	-5.75	50.20	54.00	-3.80	peak
2	5150.000	53.50	-5.73	47.77	54.00	-6.23	peak

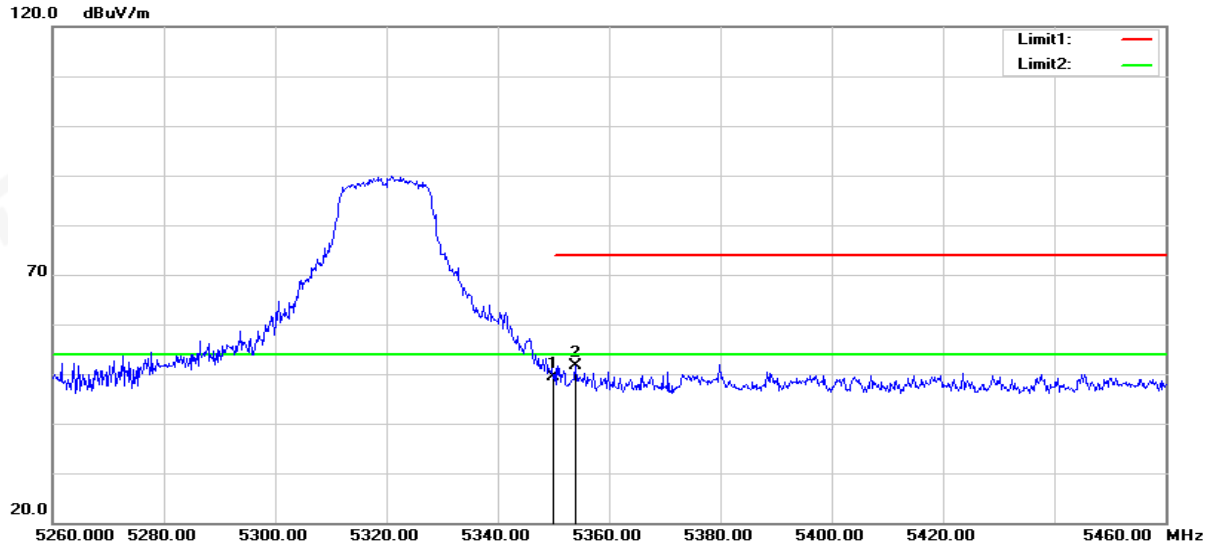
802.11ac20-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5077.150	53.15	-5.84	47.31	54.00	-6.69	peak
2	5150.000	51.80	-5.73	46.07	54.00	-7.93	peak

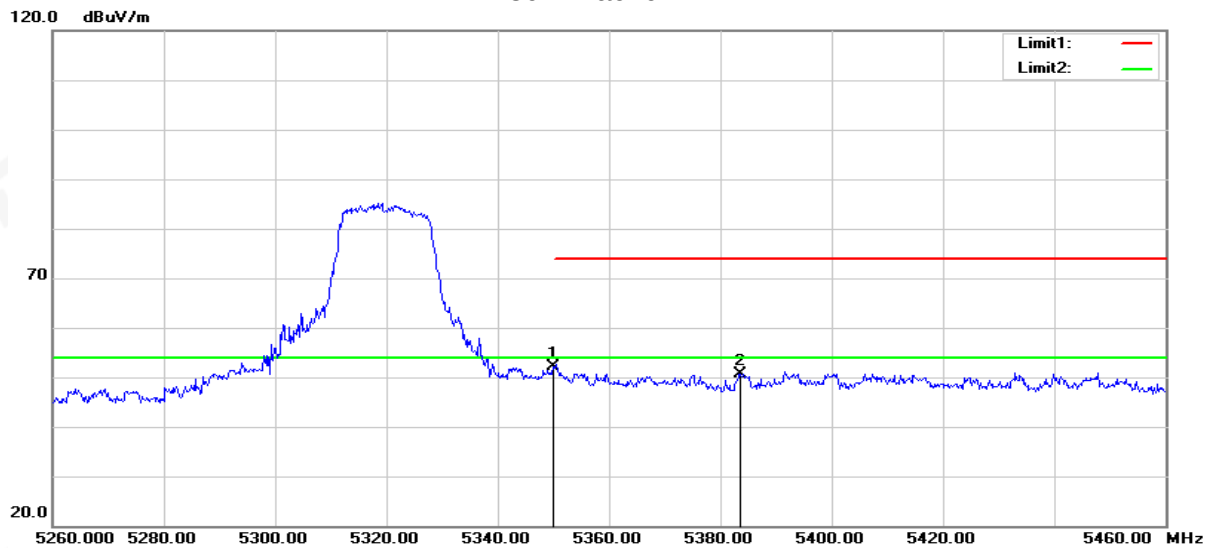


802.11ac20-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	54.67	-5.23	49.44	54.00	-4.56	peak
2	5354.000	56.92	-5.23	51.69	54.00	-2.31	peak

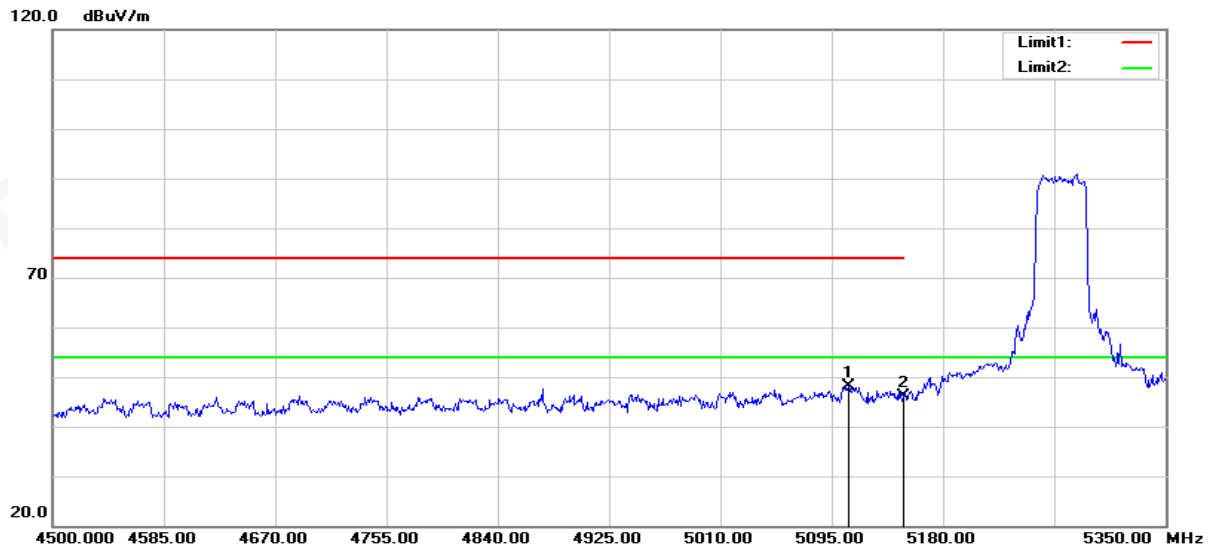
802.11ac20-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	57.28	-5.23	52.05	54.00	-1.95	peak
2	5383.600	55.94	-5.24	50.70	54.00	-3.30	peak

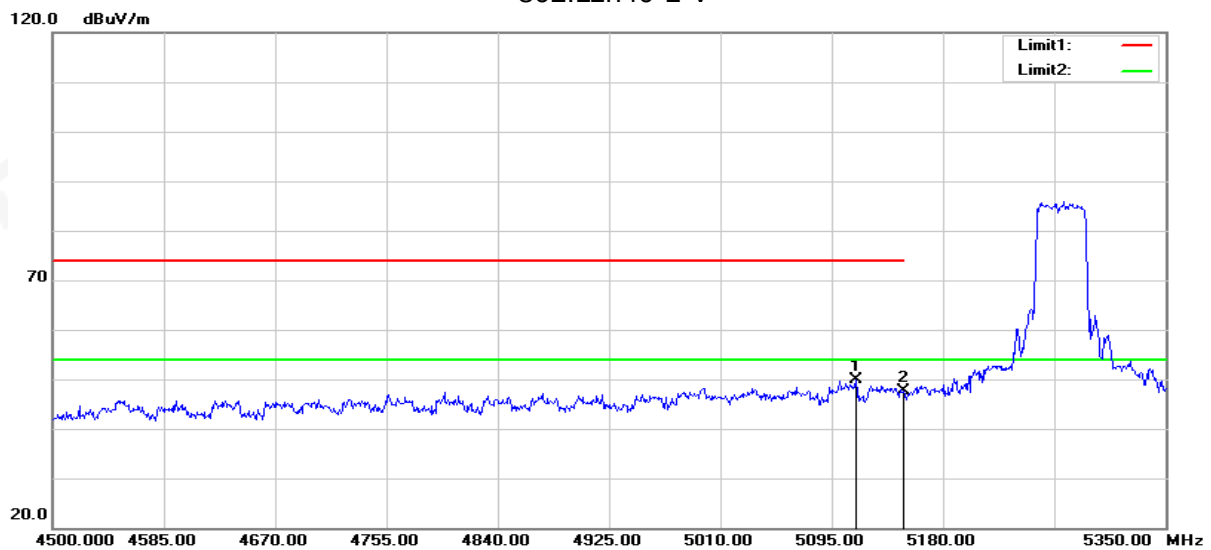


802.11n40-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5107.750	53.99	-5.74	48.25	54.00	-5.75	peak
2	5150.000	51.84	-5.73	46.11	54.00	-7.89	peak

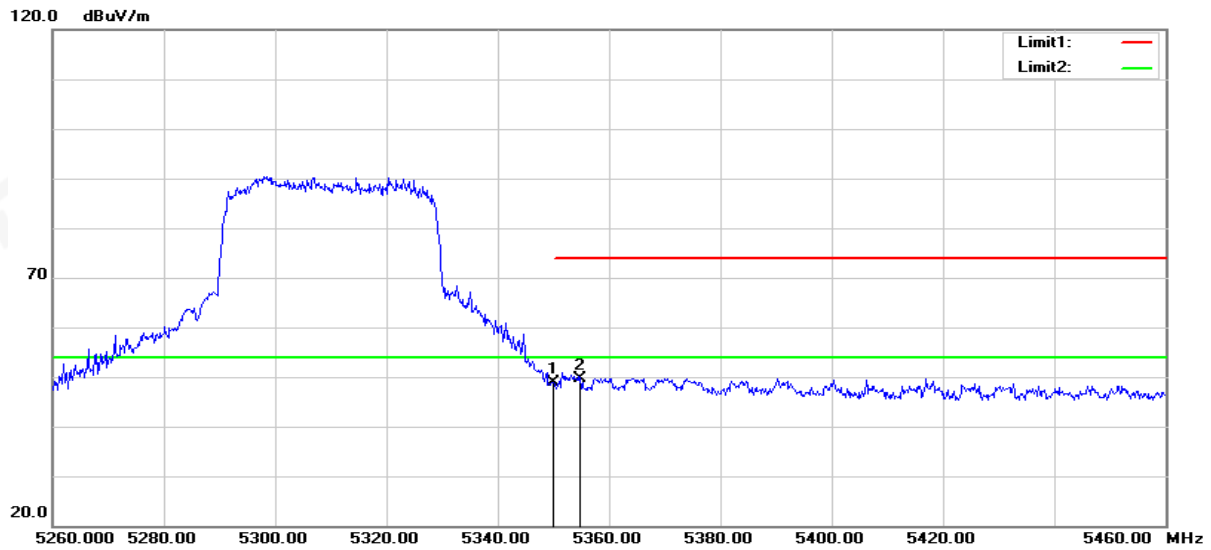
802.11n40-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5113.700	55.60	-5.74	49.86	54.00	-4.14	peak
2	5150.000	53.24	-5.73	47.51	54.00	-6.49	peak

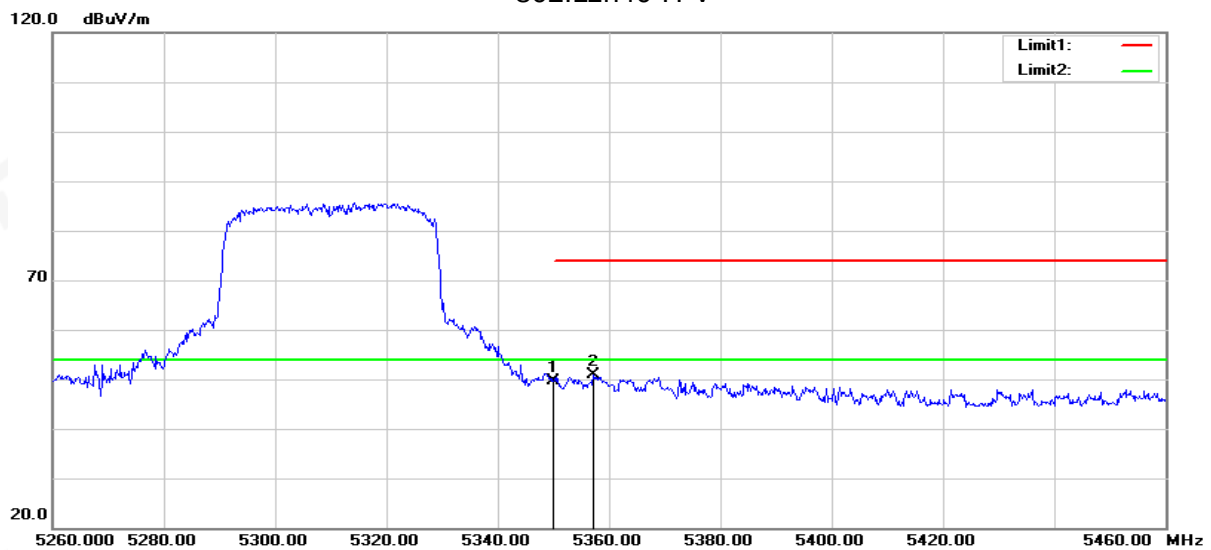


802.11n40-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	54.00	-5.23	48.77	54.00	-5.23	peak
2	5354.800	54.99	-5.24	49.75	54.00	-4.25	peak

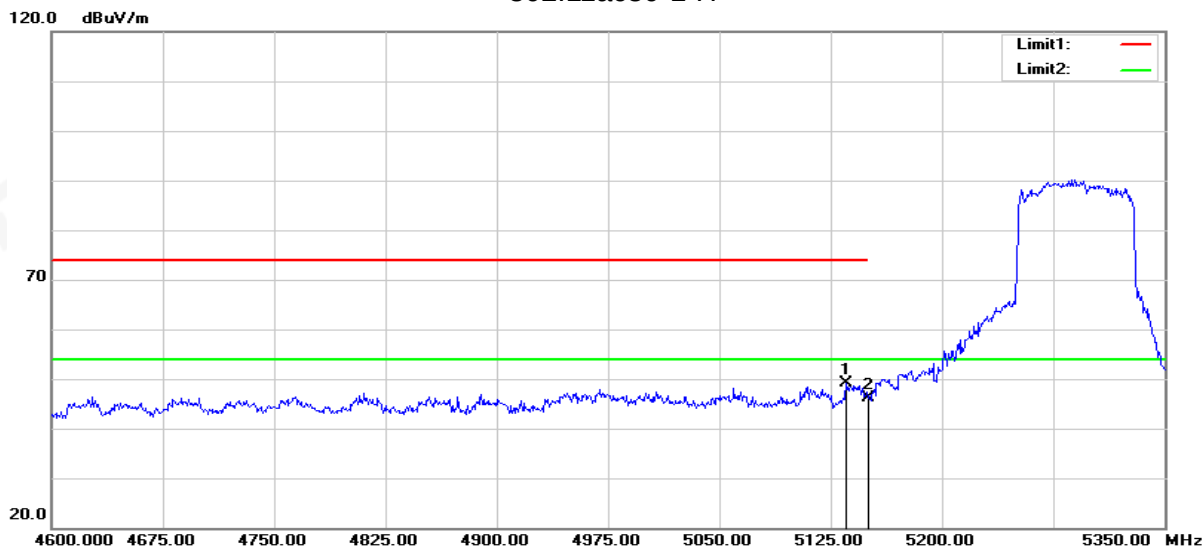
802.11n40-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	54.88	-5.23	49.65	54.00	-4.35	peak
2	5357.200	56.05	-5.23	50.82	54.00	-3.18	peak

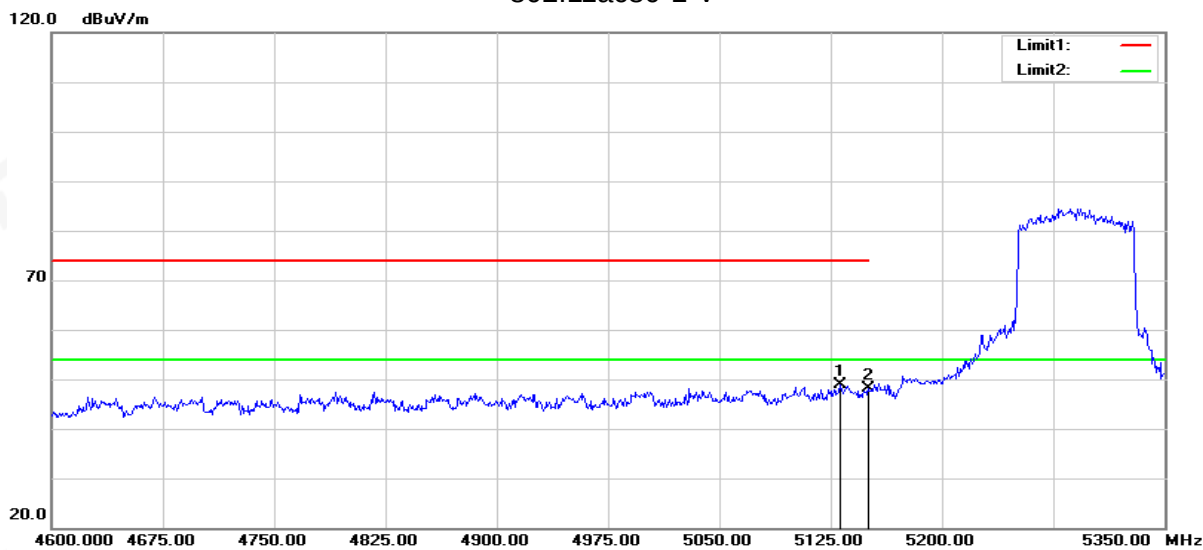


802.11ac80-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5135.500	54.77	-5.73	49.04	54.00	-4.96	peak
2	5150.000	51.91	-5.73	46.18	54.00	-7.82	peak

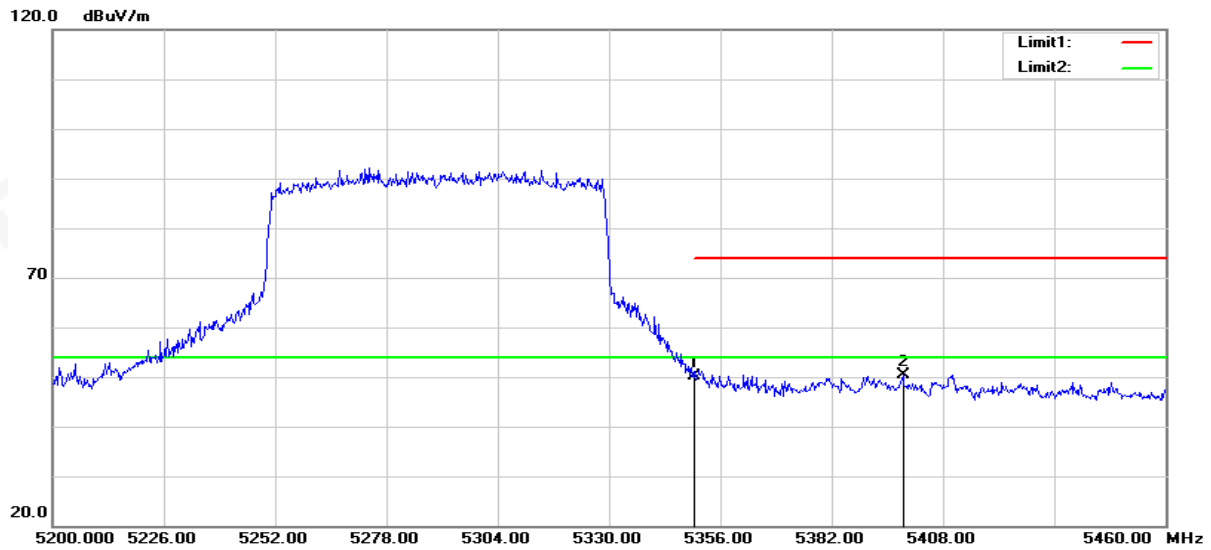
802.11ac80-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5131.000	54.62	-5.74	48.88	54.00	-5.12	peak
2	5150.000	53.74	-5.73	48.01	54.00	-5.99	peak

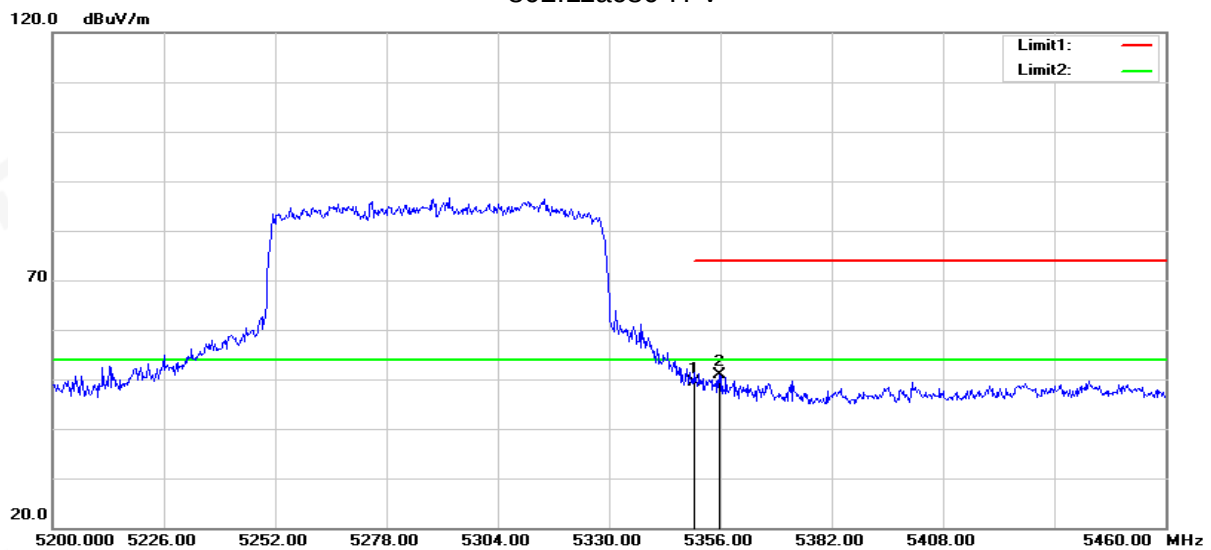


802.11ac80-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	55.25	-5.23	50.02	54.00	-3.98	peak
2	5398.640	55.69	-5.25	50.44	54.00	-3.56	peak

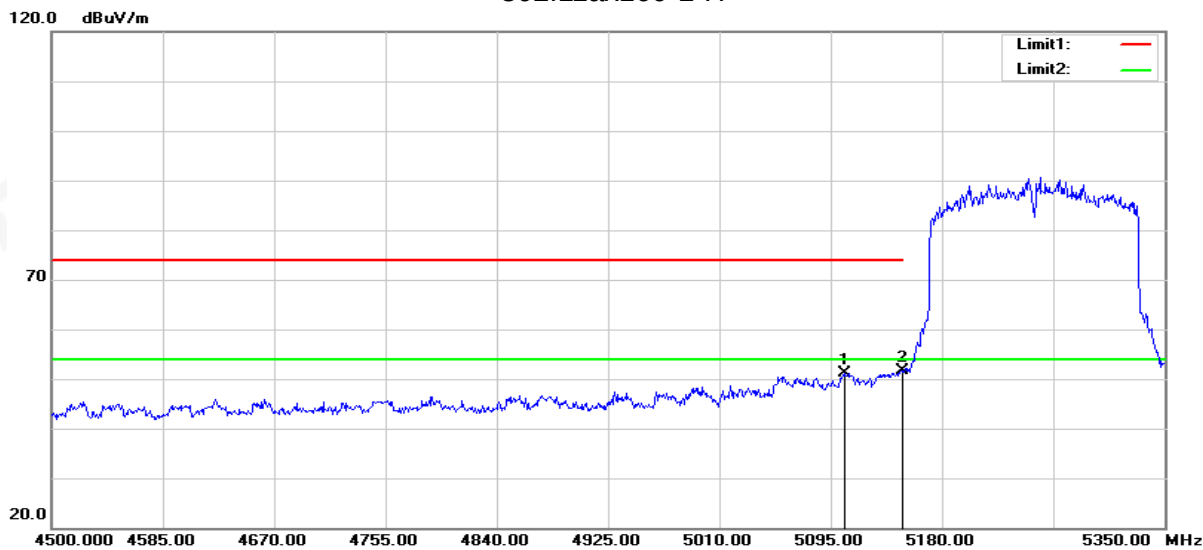
802.11ac80-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	54.65	-5.23	49.42	54.00	-4.58	peak
2	5355.740	56.01	-5.24	50.77	54.00	-3.23	peak

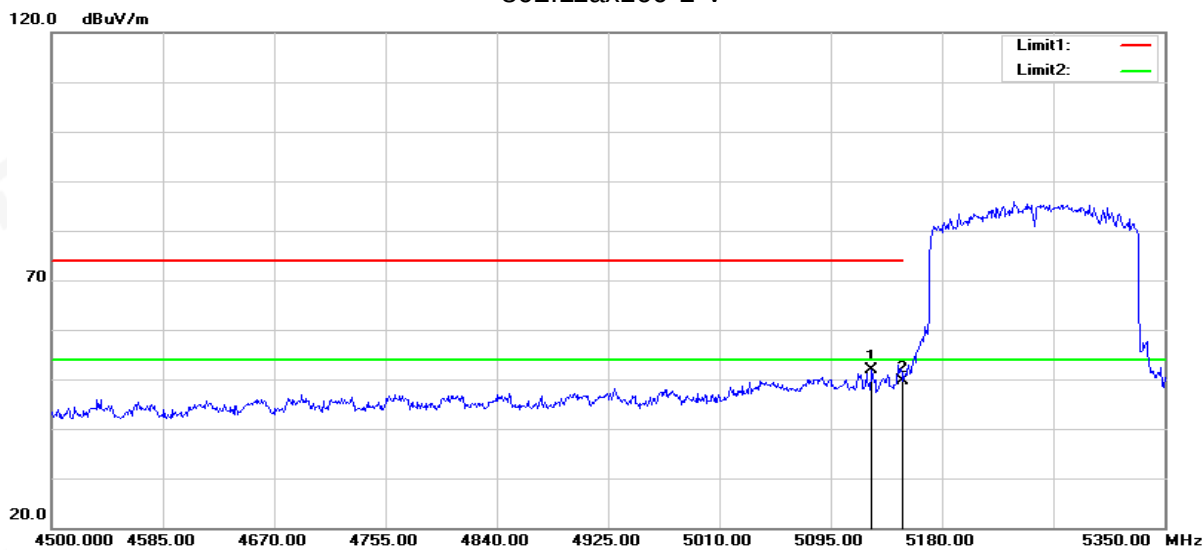


802.11ax160-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5105.200	56.85	-5.74	51.11	54.00	-2.89	peak
2	5150.000	57.46	-5.73	51.73	54.00	-2.27	peak

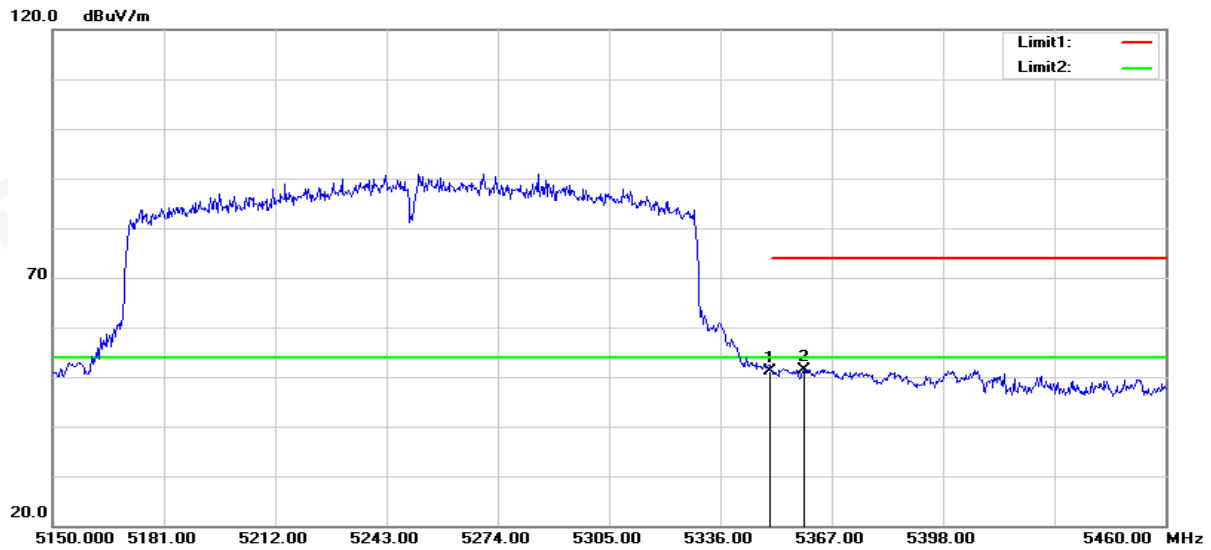
802.11ax160-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5126.450	57.64	-5.74	51.90	54.00	-2.10	peak
2	5150.000	55.35	-5.73	49.62	54.00	-4.38	peak

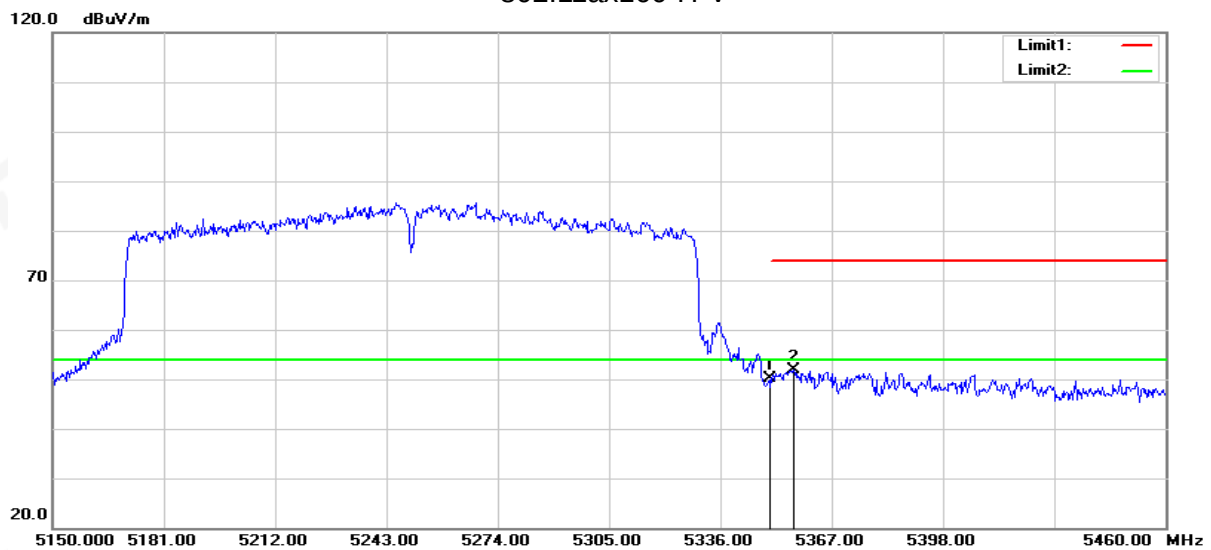


802.11ax160-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	56.34	-5.23	51.11	54.00	-2.89	peak
2	5359.250	56.72	-5.23	51.49	54.00	-2.51	peak

802.11ax160-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	55.36	-5.23	50.13	54.00	-3.87	peak
2	5356.460	57.15	-5.23	51.92	54.00	-2.08	peak

Remark:

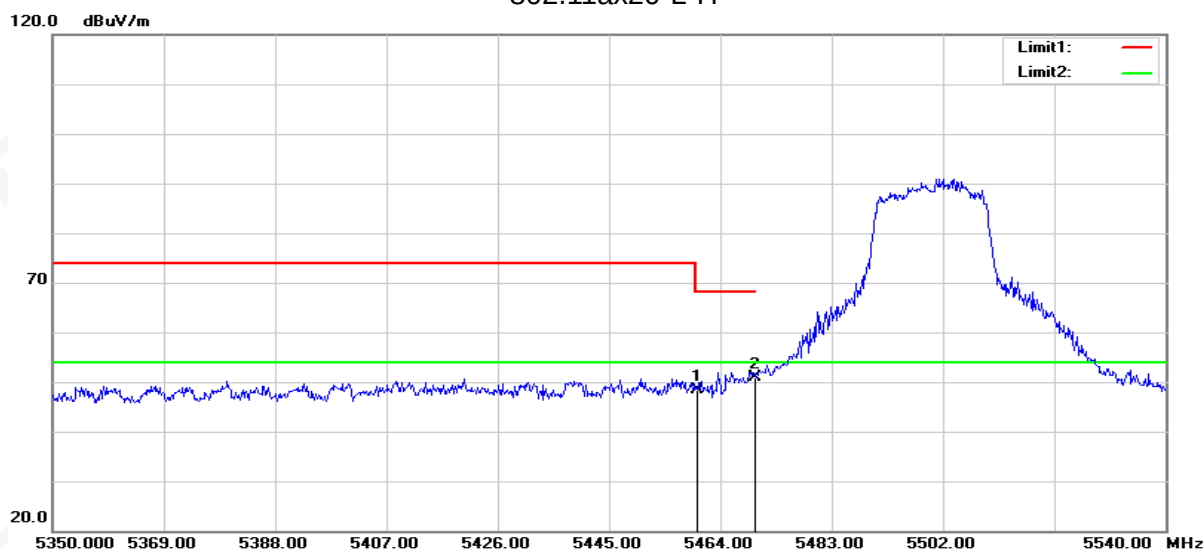
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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



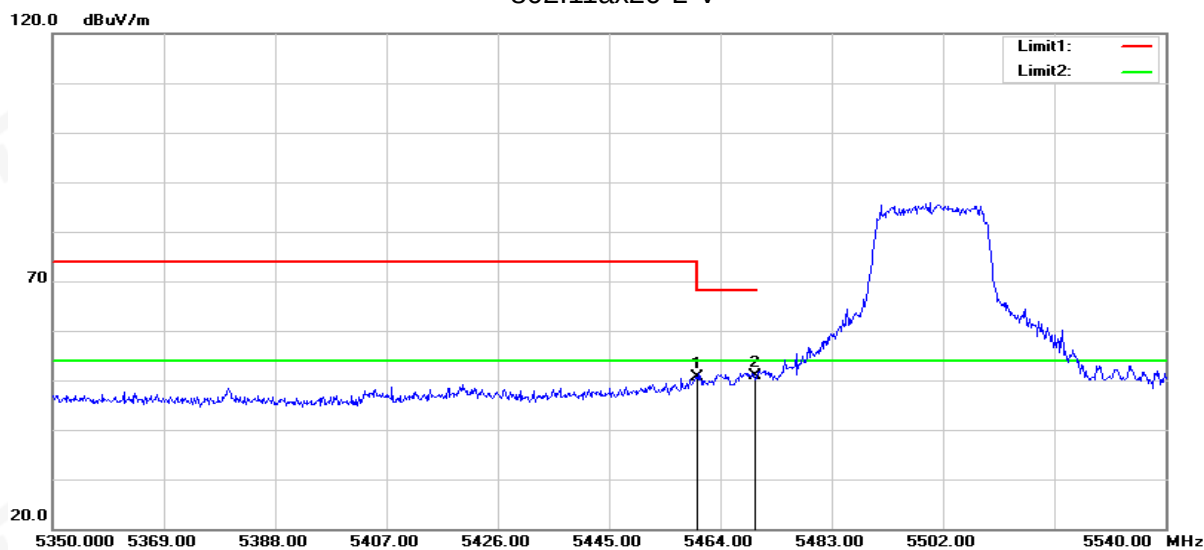
U-NII-2C 5470-5725MHz

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	53.61	-5.11	48.50	68.20	-19.70	peak
2	5470.000	55.92	-5.09	50.83	68.20	-17.37	peak

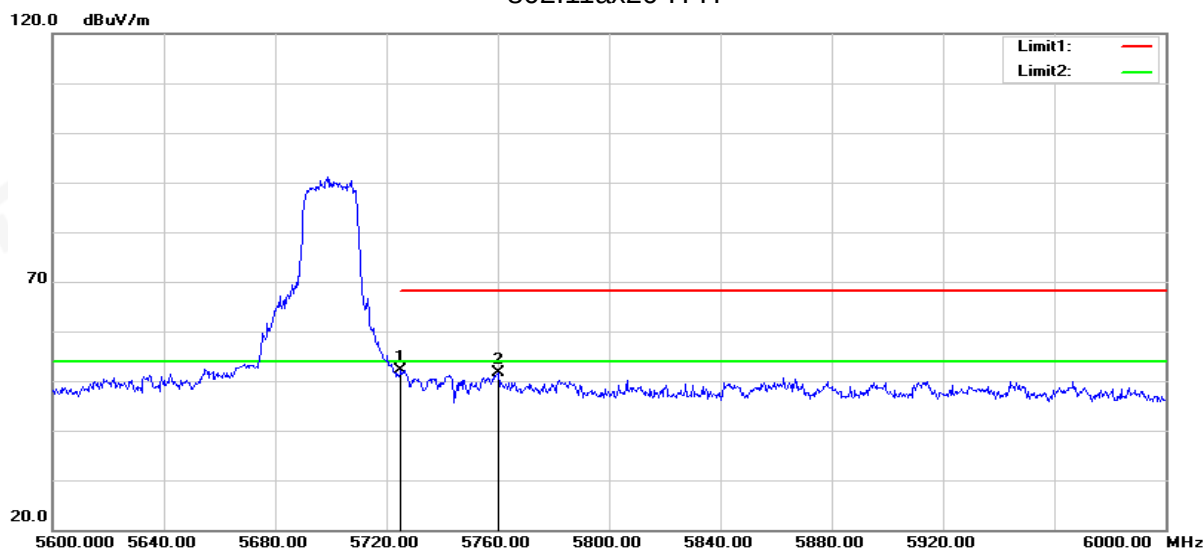
802.11ax20-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	55.79	-5.11	50.68	68.20	-17.52	peak
2	5470.000	56.03	-5.09	50.94	68.20	-17.26	peak

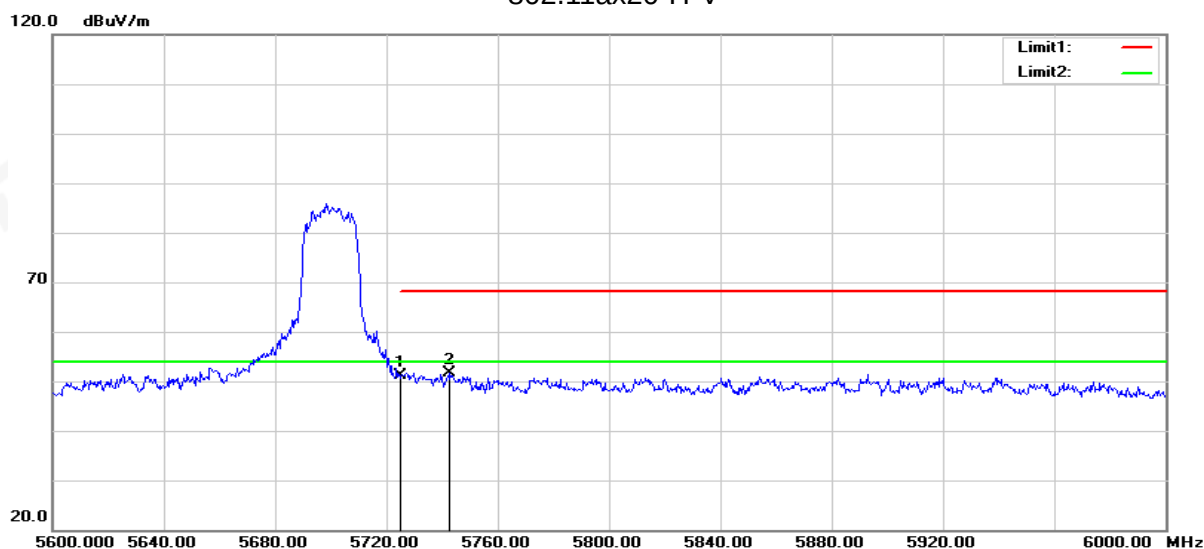


802.11ax20-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	56.74	-4.57	52.17	68.20	-16.03	peak
2	5760.400	55.99	-4.45	51.54	68.20	-16.66	peak

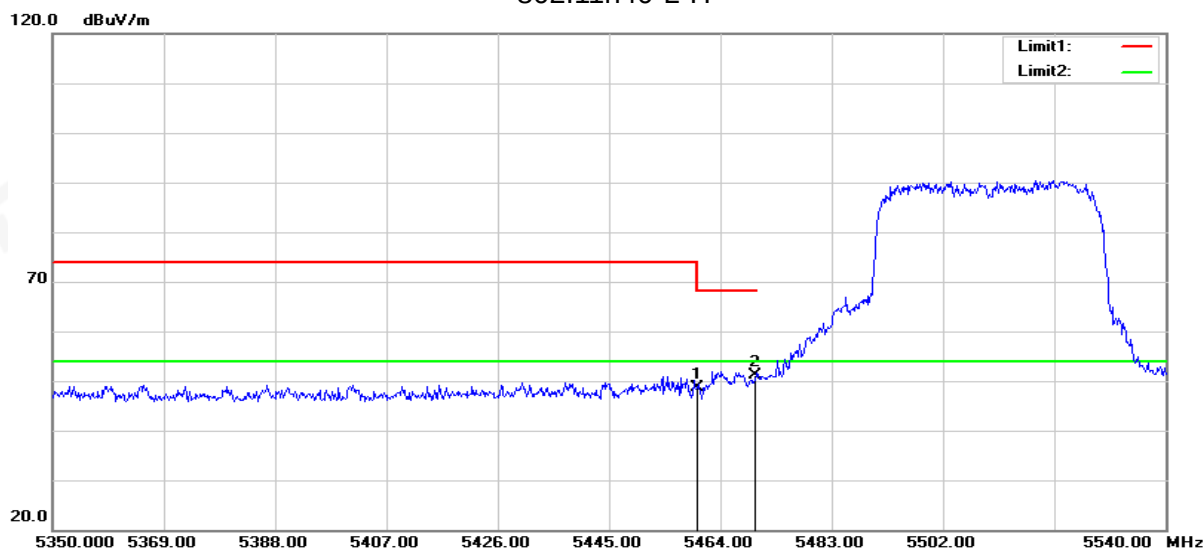
802.11ax20-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	55.81	-4.57	51.24	68.20	-16.96	peak
2	5742.800	56.04	-4.51	51.53	68.20	-16.67	peak

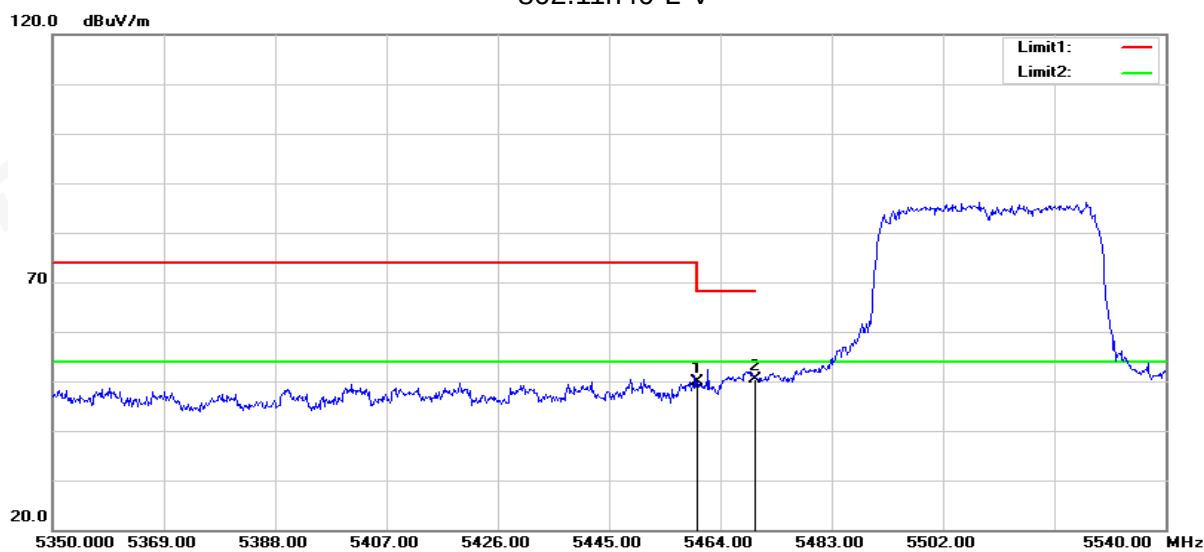


802.11n40-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	53.83	-5.11	48.72	68.20	-19.48	peak
2	5470.000	56.34	-5.09	51.25	68.20	-16.95	peak

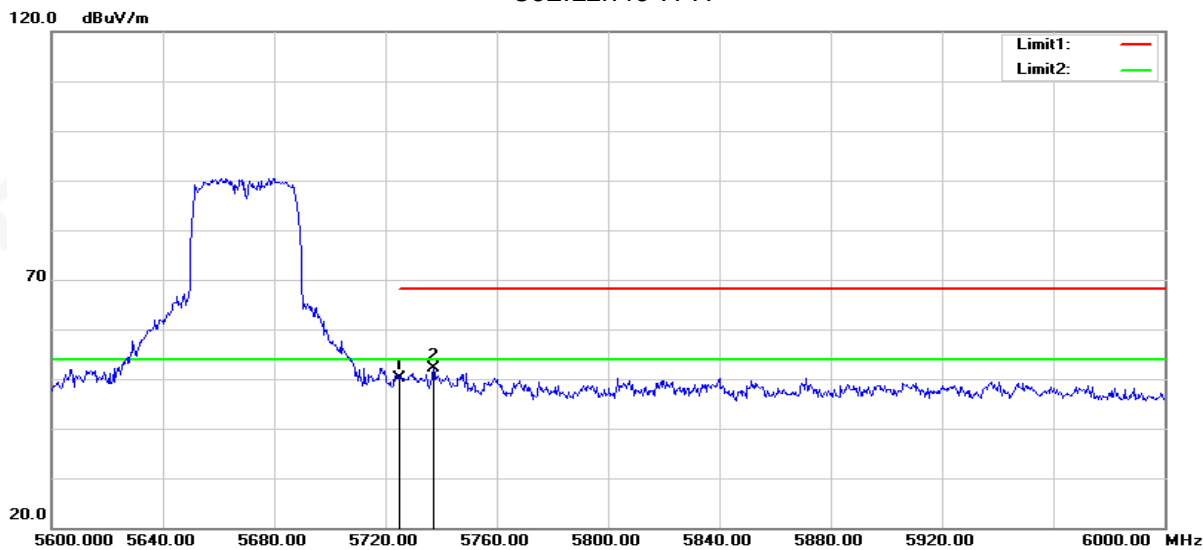
802.11n40-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	54.89	-5.11	49.78	68.20	-18.42	peak
2	5470.000	55.59	-5.09	50.50	68.20	-17.70	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	54.81	-4.57	50.24	68.20	-17.96	peak
2	5737.200	56.75	-4.53	52.22	68.20	-15.98	peak

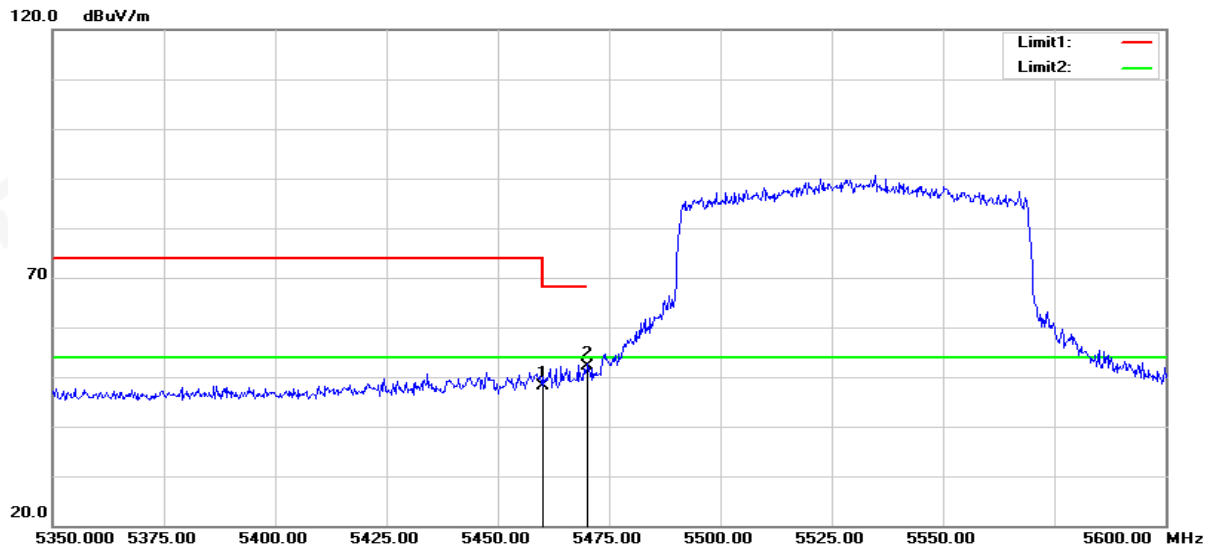
802.11n40-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	56.43	-4.57	51.86	68.20	-16.34	peak
2	5741.200	55.32	-4.52	50.80	68.20	-17.40	peak

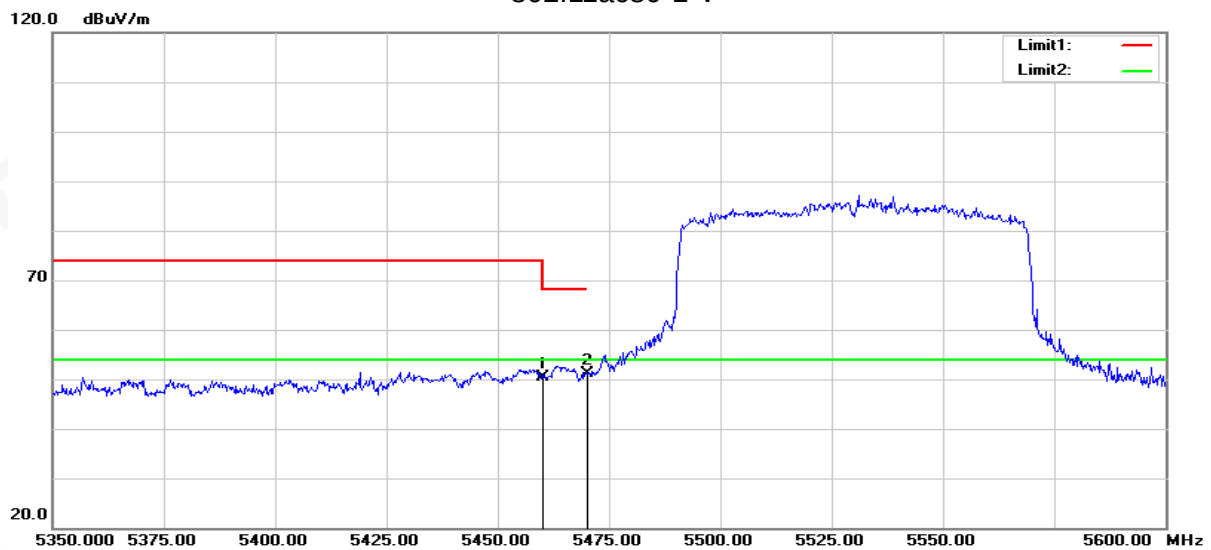


802.11ac80-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	53.33	-5.11	48.22	68.20	-19.98	peak
2	5470.000	57.11	-5.09	52.02	68.20	-16.18	peak

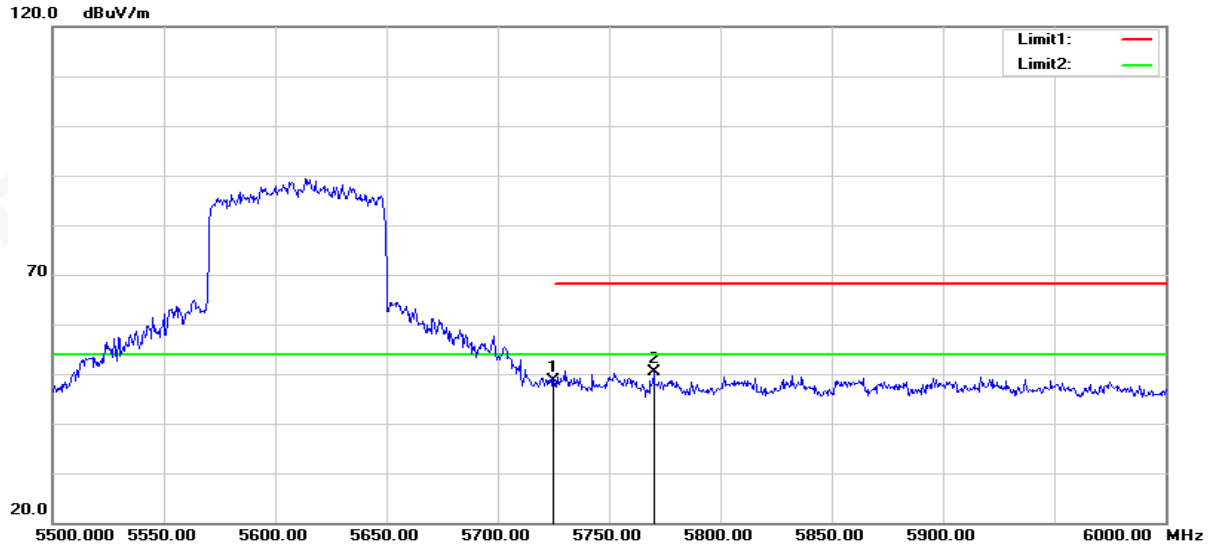
802.11ac80-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	55.57	-5.11	50.46	68.20	-17.74	peak
2	5470.000	56.23	-5.09	51.14	68.20	-17.06	peak

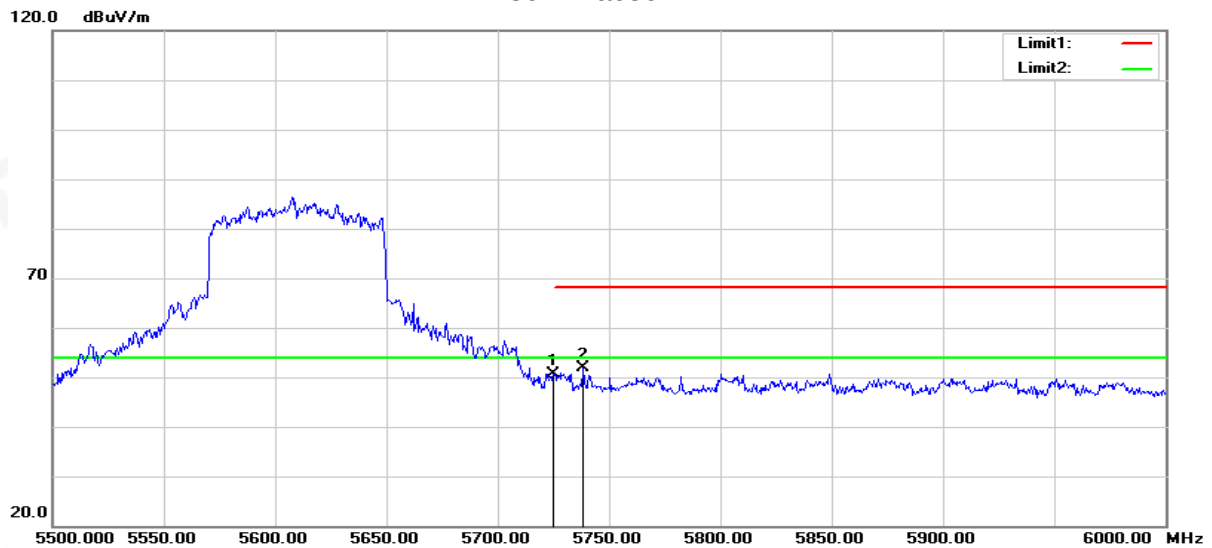


802.11ac80-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	53.27	-4.57	48.70	68.20	-19.50	peak
2	5770.000	54.81	-4.42	50.39	68.20	-17.81	peak

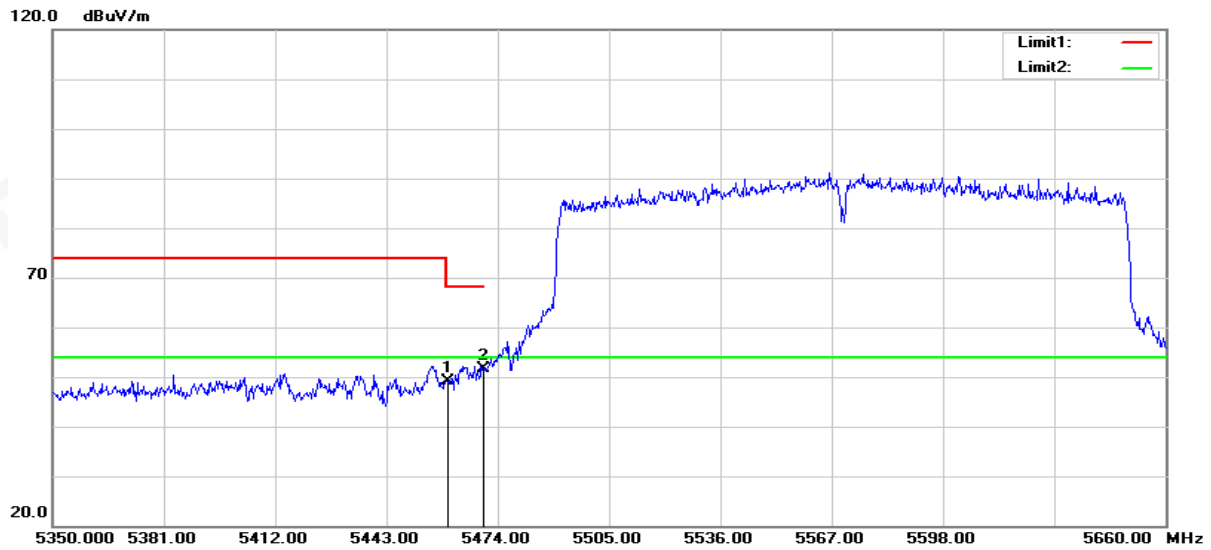
802.11ac80-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	55.21	-4.57	50.64	68.20	-17.56	peak
2	5738.500	56.48	-4.53	51.95	68.20	-16.25	peak

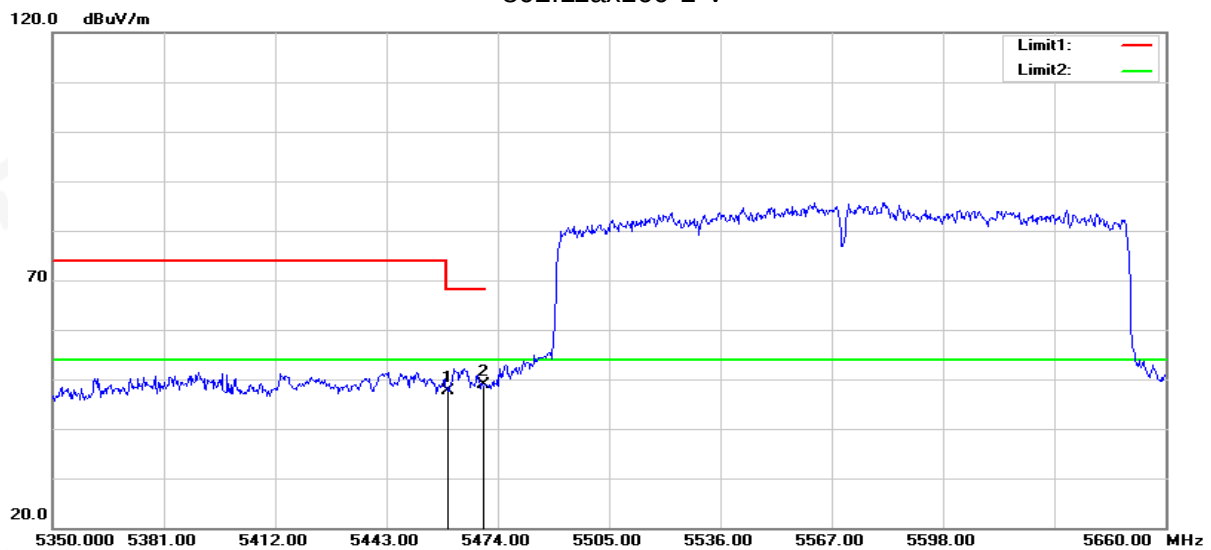


802.11ax160-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	54.15	-5.11	49.04	68.20	-19.16	peak
2	5470.000	56.70	-5.09	51.61	68.20	-16.59	peak

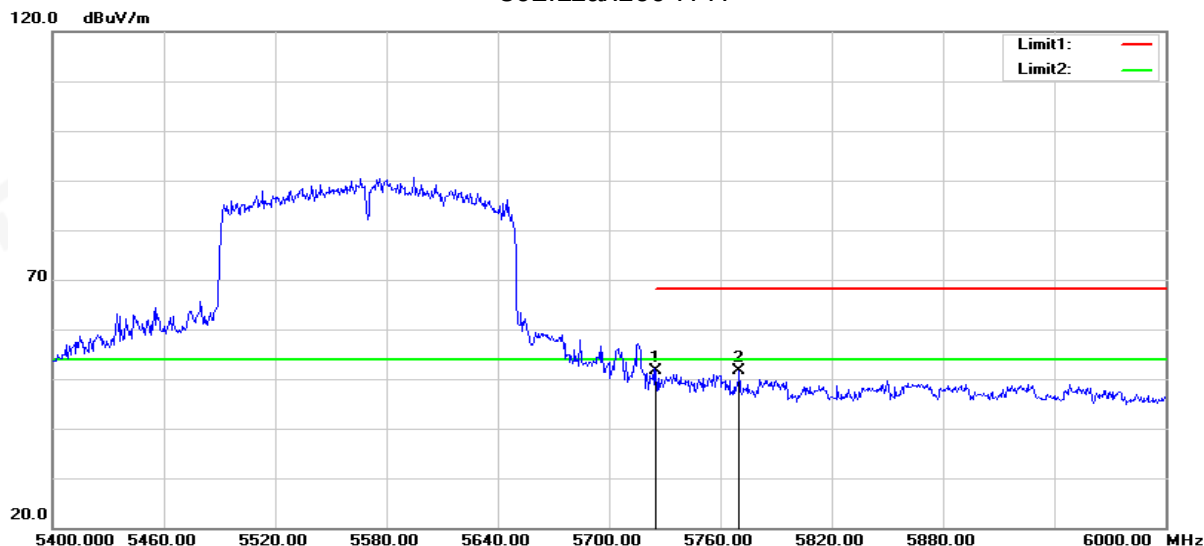
802.11ax160-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	52.80	-5.11	47.69	68.20	-20.51	peak
2	5470.000	54.03	-5.09	48.94	68.20	-19.26	peak

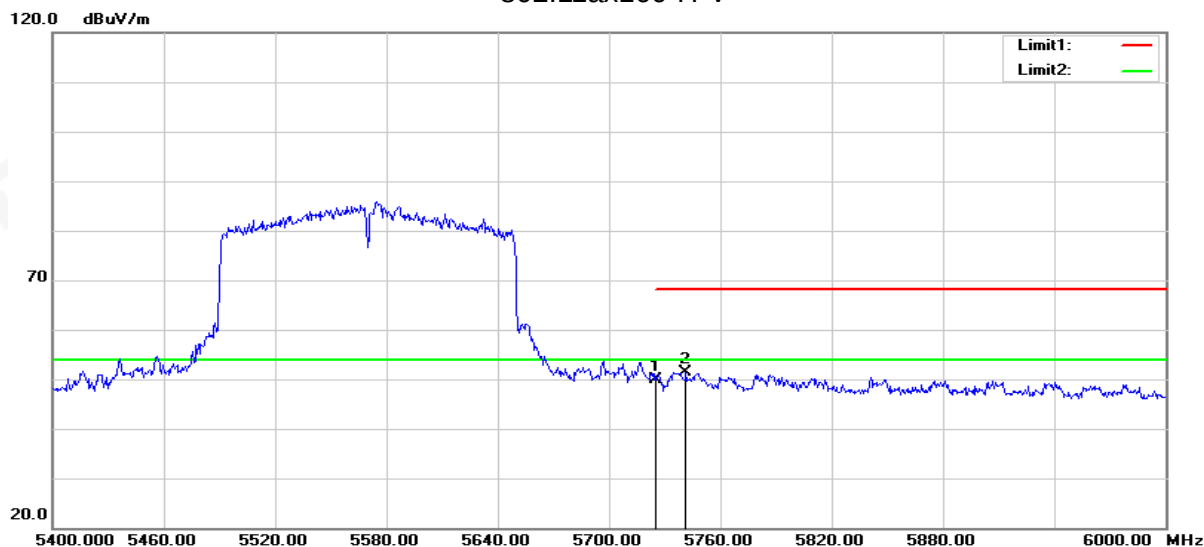


802.11ax160-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	56.14	-4.57	51.57	68.20	-16.63	peak
2	5770.200	56.10	-4.42	51.68	68.20	-16.52	peak

802.11ax160-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	54.49	-4.57	49.92	68.20	-18.28	peak
2	5741.400	55.93	-4.52	51.41	68.20	-16.79	peak

Remark:

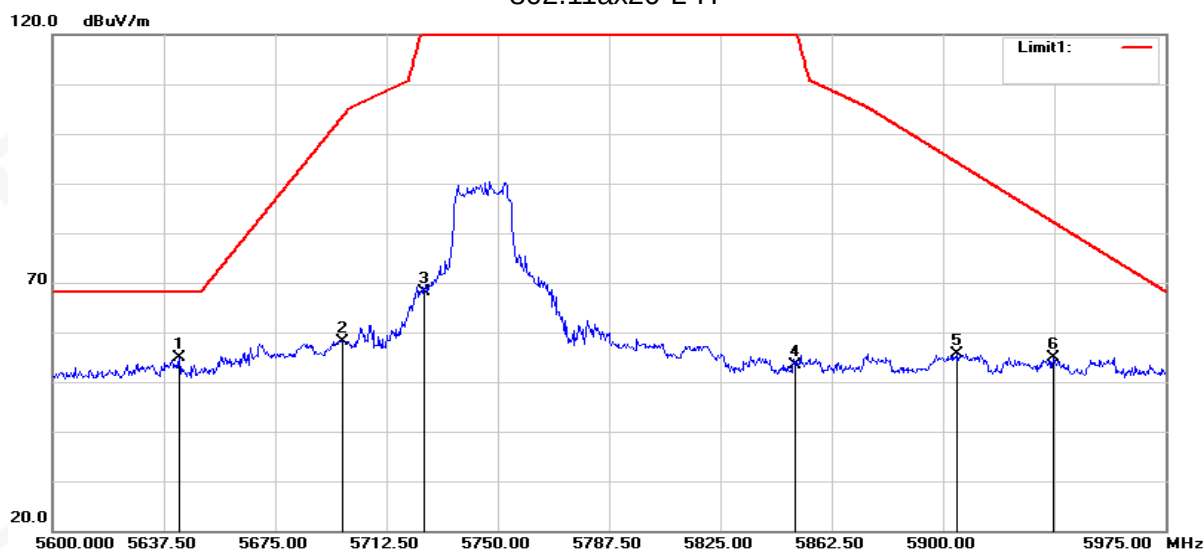
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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



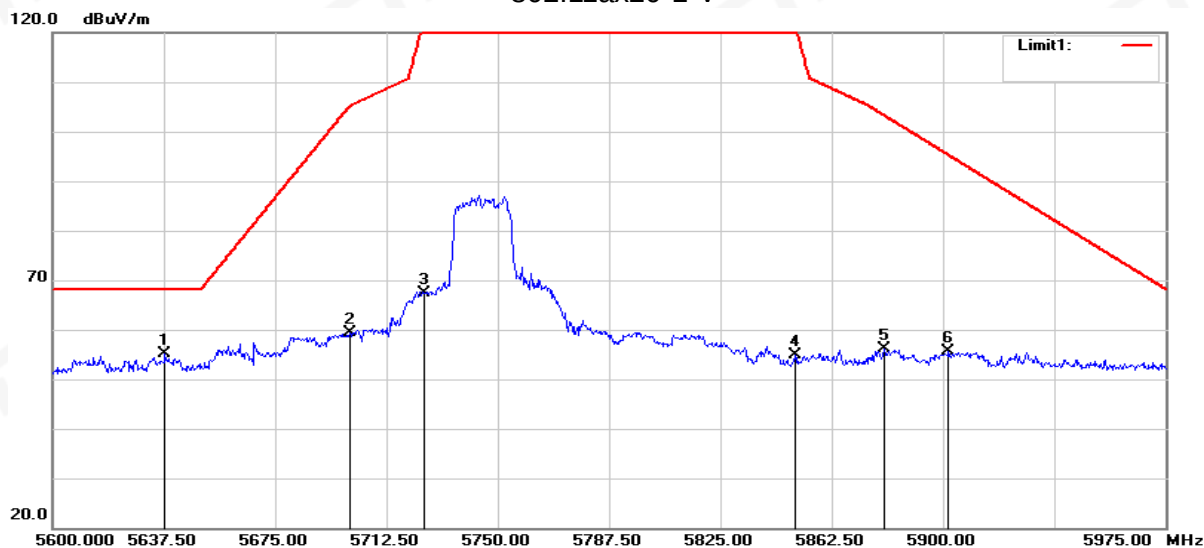
U-NII-3 (5.725-5.850) GHz

802.11ax20-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5642.750	59.45	-4.68	54.77	68.20	-13.43	peak
2	5697.875	62.85	-4.66	58.19	103.63	-45.44	peak
3	5725.000	72.80	-4.57	68.23	122.20	-53.97	peak
4	5850.000	57.52	-4.10	53.42	122.20	-68.78	peak
5	5904.875	59.51	-3.89	55.62	94.15	-38.53	peak
6	5937.125	58.89	-3.94	54.95	82.21	-27.26	peak

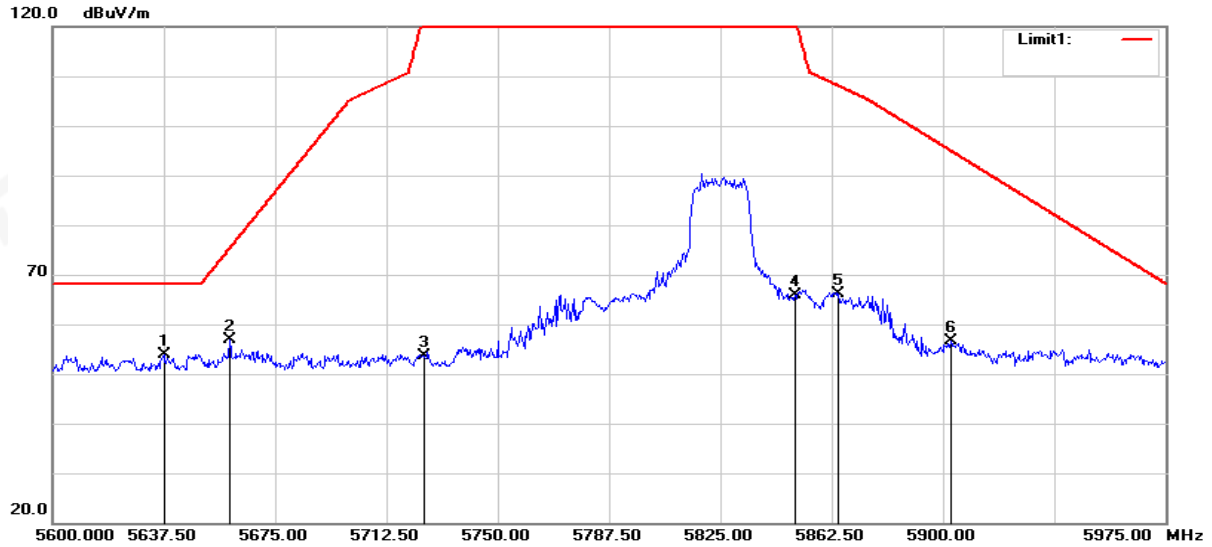
802.11ax20-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5637.875	59.93	-4.69	55.24	68.20	-12.96	peak
2	5700.125	63.93	-4.66	59.27	105.23	-45.96	peak
3	5725.000	72.00	-4.57	67.43	122.20	-54.77	peak
4	5850.000	59.06	-4.10	54.96	122.20	-67.24	peak
5	5880.125	60.12	-3.97	56.15	103.30	-47.15	peak
6	5901.875	59.43	-3.89	55.54	95.26	-39.72	peak

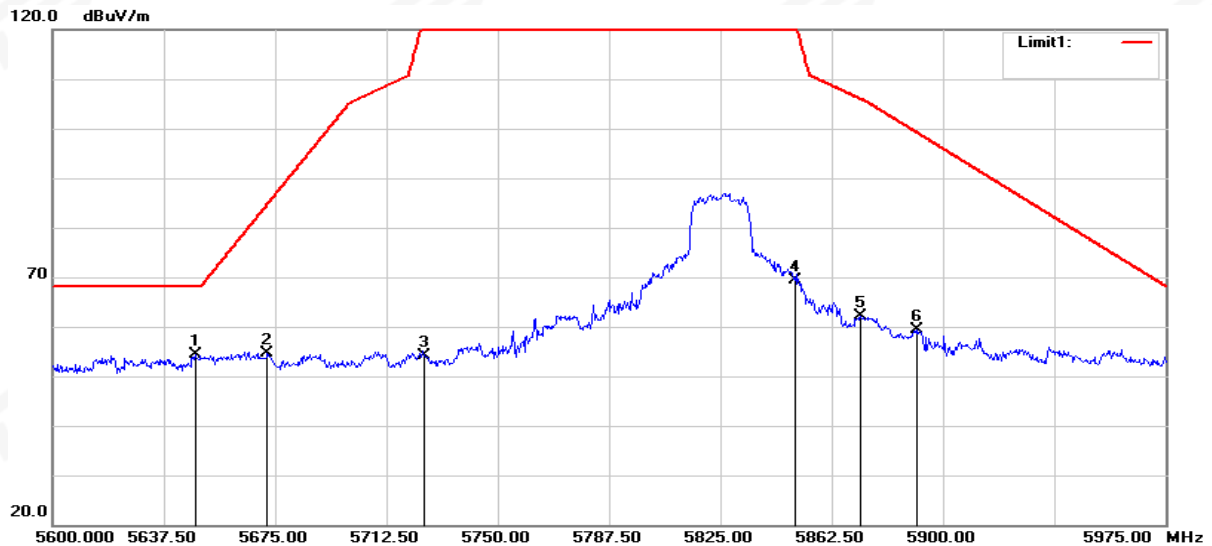


802.11ax20-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5637.500	58.57	-4.69	53.88	68.20	-14.32	peak
2	5659.625	61.66	-4.67	56.99	75.32	-18.33	peak
3	5725.000	58.09	-4.57	53.52	122.20	-68.68	peak
4	5850.000	69.90	-4.10	65.80	122.20	-56.40	peak
5	5864.750	70.23	-4.04	66.19	108.07	-41.88	peak
6	5902.625	60.49	-3.89	56.60	94.98	-38.38	peak

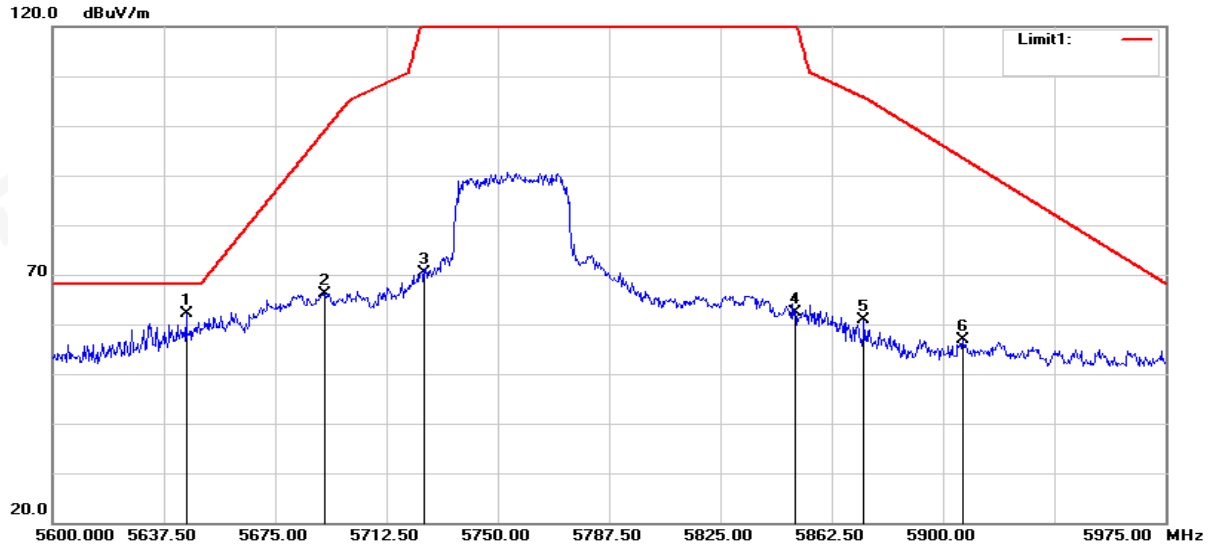
802.11ax20-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5648.000	59.09	-4.68	54.41	68.20	-13.79	peak
2	5672.375	59.35	-4.67	54.68	84.76	-30.08	peak
3	5725.000	58.61	-4.57	54.04	122.20	-68.16	peak
4	5850.000	73.40	-4.10	69.30	122.20	-52.90	peak
5	5872.250	66.16	-4.00	62.16	105.97	-43.81	peak
6	5891.375	63.33	-3.91	59.42	99.14	-39.72	peak

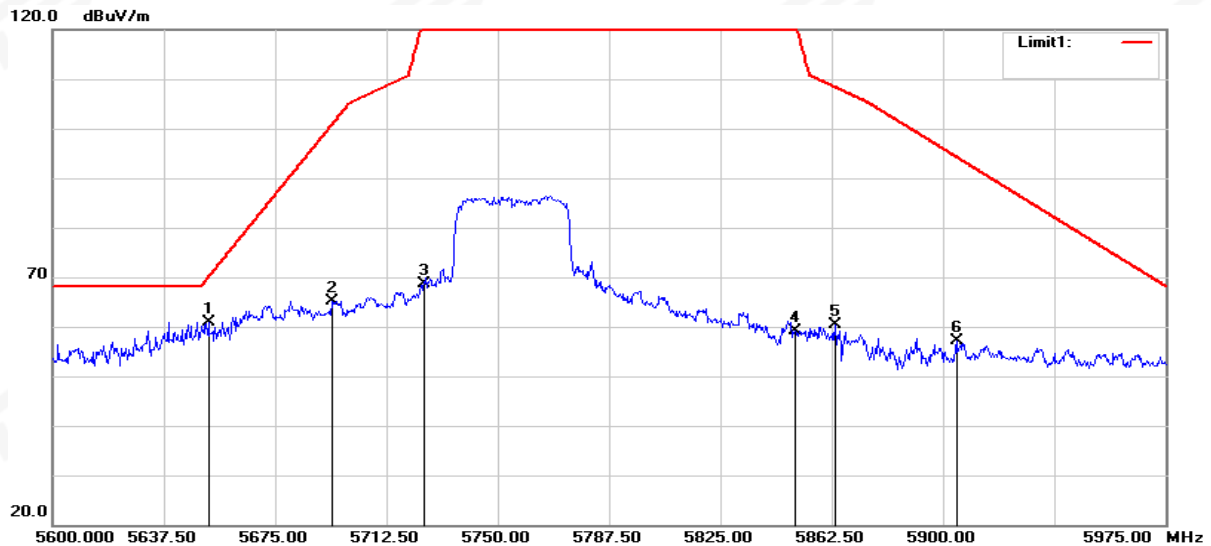


802.11n40-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5645.000	66.86	-4.68	62.18	68.20	-6.02	peak
2	5691.875	70.87	-4.66	66.21	99.19	-32.98	peak
3	5725.000	74.91	-4.57	70.34	122.20	-51.86	peak
4	5850.000	66.38	-4.10	62.28	122.20	-59.92	peak
5	5873.375	64.93	-3.99	60.94	105.66	-44.72	peak
6	5906.750	60.88	-3.89	56.99	93.45	-36.46	peak

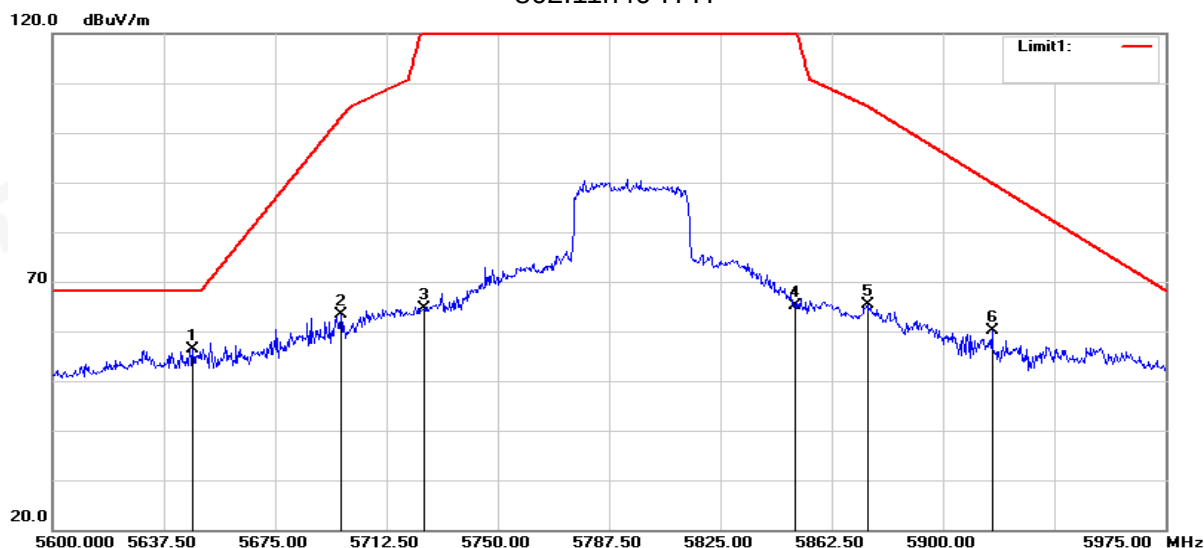
802.11n40-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5652.500	65.59	-4.68	60.91	70.05	-9.14	peak
2	5694.125	69.90	-4.66	65.24	100.85	-35.61	peak
3	5725.000	73.24	-4.57	68.67	122.20	-53.53	peak
4	5850.000	63.14	-4.10	59.04	122.20	-63.16	peak
5	5863.625	64.49	-4.04	60.45	108.39	-47.94	peak
6	5904.500	61.00	-3.88	57.12	94.28	-37.16	peak

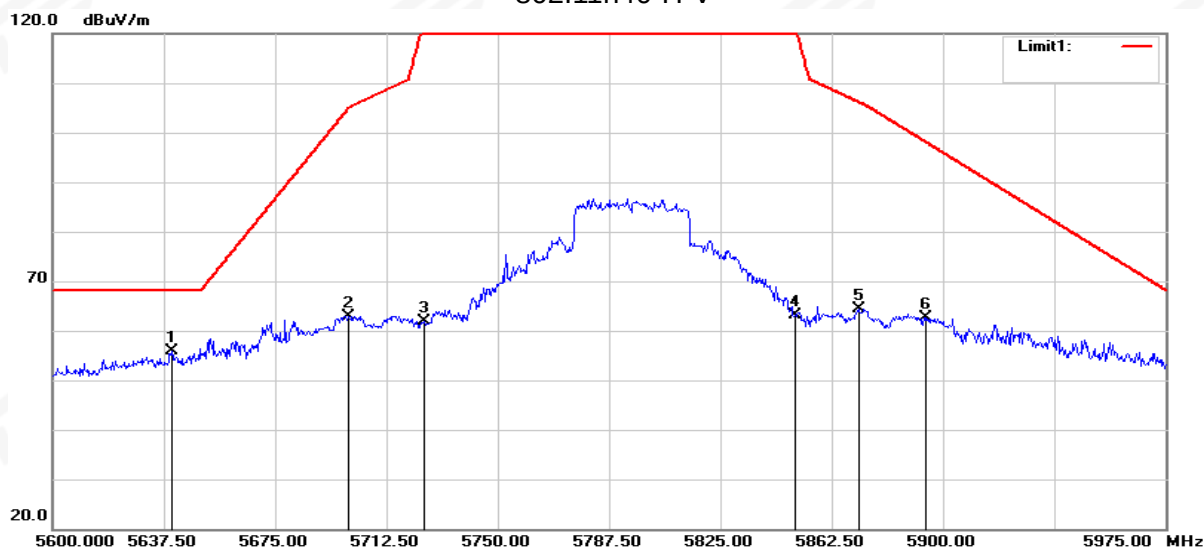


802.11n40-H-H



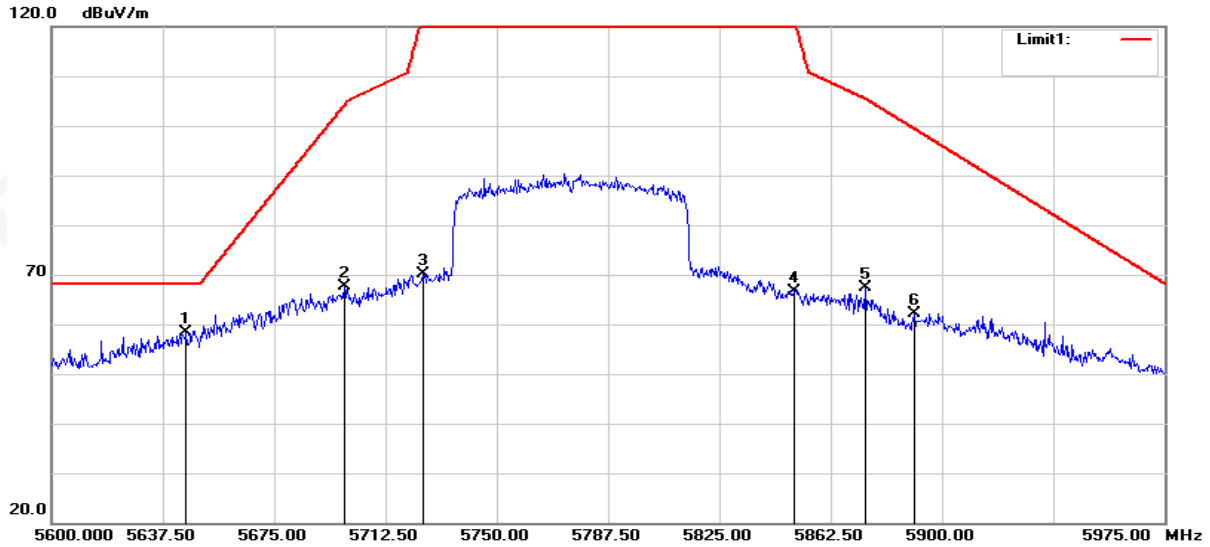
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5647.250	61.10	-4.68	56.42	68.20	-11.78	peak
2	5697.125	68.11	-4.66	63.45	103.07	-39.62	peak
3	5725.000	69.15	-4.57	64.58	122.20	-57.62	peak
4	5850.000	69.23	-4.10	65.13	122.20	-57.07	peak
5	5874.500	69.49	-3.99	65.50	105.34	-39.84	peak
6	5916.500	63.97	-3.90	60.07	89.84	-29.77	peak

802.11n40-H-V



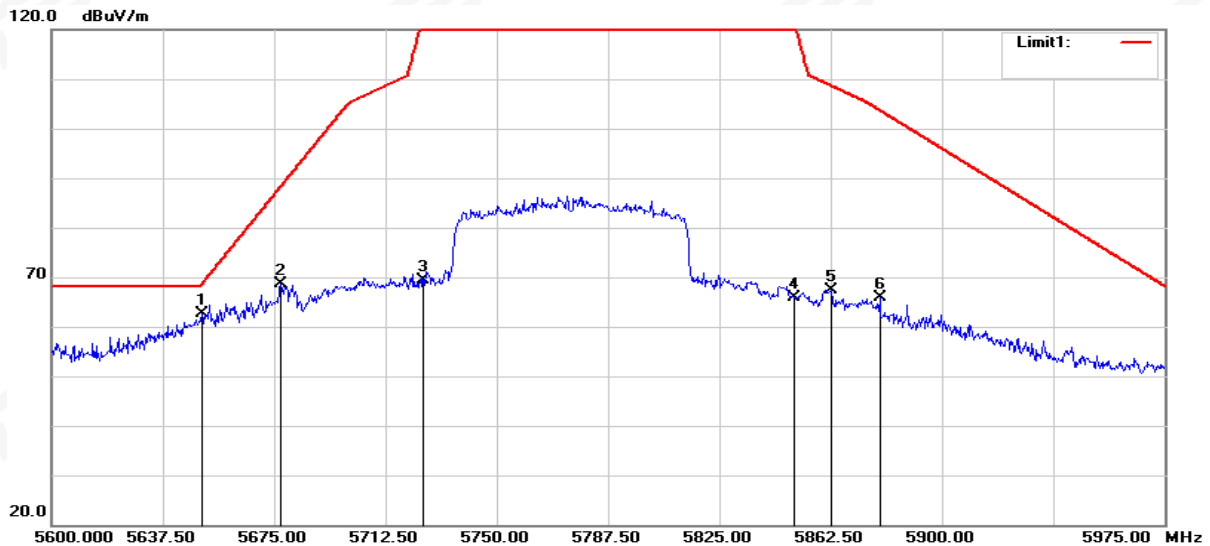
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5640.125	60.55	-4.69	55.86	68.20	-12.34	peak
2	5699.750	67.66	-4.66	63.00	105.02	-42.02	peak
3	5725.000	66.34	-4.57	61.77	122.20	-60.43	peak
4	5850.000	67.26	-4.10	63.16	122.20	-59.04	peak
5	5871.500	68.50	-4.01	64.49	106.18	-41.69	peak
6	5894.000	66.65	-3.91	62.74	98.17	-35.43	peak

802.11ac80-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5645.375	62.99	-4.68	58.31	68.20	-9.89	peak
2	5698.625	72.27	-4.66	67.61	104.18	-36.57	peak
3	5725.000	74.76	-4.57	70.19	122.20	-52.01	peak
4	5850.000	70.76	-4.10	66.66	122.20	-55.54	peak
5	5874.125	71.33	-3.99	67.34	105.45	-38.11	peak
6	5890.625	66.12	-3.92	62.20	99.42	-37.22	peak

802.11ac80-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.625	67.42	-4.68	62.74	68.66	-5.92	peak
2	5677.250	73.23	-4.67	68.56	88.37	-19.81	peak
3	5725.000	73.89	-4.57	69.32	122.20	-52.88	peak
4	5850.000	69.89	-4.10	65.79	122.20	-56.41	peak
5	5862.875	71.35	-4.04	67.31	108.59	-41.28	peak
6	5879.000	69.75	-3.97	65.78	103.72	-37.94	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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



4. ANTENNA REQUIREMENT

4.1 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.

4.2 EUT ANTENNA

The EUT antenna is 2x2 internal 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※※※※※