



RADIO TEST REPORT

Report No.: STS2102020W05

Issued for

Hong Kong AMobile Intelligent Corp. Limited Taiwan Branch

8F.-3, No.700, Zhongzheng Rd., Zhonghe Dist., New Taipei
City 235, Taiwan

Product Name:	Mobile Computing Device
Brand Name:	AMobile
Model Name:	G47
Series Model:	N/A
FCC ID:	2AQ5W-G47
Test Standard:	FCC Part 15.407

Any reproduction of this document must be done in full. No single part of this document may be reproduced without permission from STS, all test data presented in this report is only applicable to presented test sample.

Shenzhen STS Test Services Co., Ltd.
A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ,
Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China
TEL: +86-755 3688 6288 FAX: +86-755 3688 6277 E-mail: sts@stsapp.com





TEST RESULT CERTIFICATION

Applicant's Name..... : Hong Kong AMobile Intelligent Corp. Limited Taiwan Branch
Address : 8F.-3, No.700, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan

Manufacturer's Name : Hong Kong AMobile Intelligent Corp. Limited Taiwan Branch
Address : 8F.-3, No.700, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan

Product Description

Product Name..... : Mobile Computing Device

Brand Name : AMobile

Model Name : G47

Series Model..... : N/A

Test Standards : FCC Part15.407

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

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

This report shall not be reproduced except in full, without the written approval of STS, this document only be altered or revised by STS, personal only, and shall be noted in the revision of the document.

Date of Test..... :

Date of receipt of test item : 05 Feb. 2021

Date (s) of performance of tests : 05 Feb. 2021 ~ 11 Mar. 2021

Date of Issue..... : 11 Mar. 2021

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

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sean she)

Authorized Signatory :

(Vita Li)





Table of Contents	Page
1 . SUMMARY OF TEST RESULTS	6
1.1 TEST FACTORY	7
1.2 MEASUREMENT UNCERTAINTY	7
2 . GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF THE EUT	8
2.2 DESCRIPTION OF TEST MODES	10
2.3 TEST SOFTWARE AND POWER LEVEL	11
2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	12
2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	13
2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS	14
3 . EMC EMISSION TEST	15
3.1 CONDUCTED EMISSION MEASUREMENT	15
3.2 RADIATED EMISSION AND (BANDEDGE) MEASUREMENT	19
4. POWER SPECTRAL DENSITY TEST	42
4.1 LIMIT	42
4.2 TEST PROCEDURE	42
4.3 DEVIATION FROM STANDARD	43
4.4 TEST SETUP	43
4.5 EUT OPERATION CONDITIONS	43
4.6 TEST RESULTS	43
5. BANDWIDTH MEASUREMENT	45
5.1 EMISSION BANDWIDTH (EBW) 26 BANDWID PROCEDURES / LIMIT	45
5.2 OCCUPIED BANDWIDTH (99%) TEST APPLIED PROCEDURES / LIMIT	47
5.3 MINIMUM EMISSION BANDWIDTH(6 DB) PROCEDURES / LIMIT	49
6. MAXIMUM CONDUCTED OUTPUT POWER	51
6.1 LIMIT	51
6.2 TEST PROCEDURE	51
6.3 DEVIATION FROM STANDARD	51
6.4 TEST SETUP	51
6.5 EUT OPERATION CONDITIONS	51
6.6 TEST RESULTS	52
7. AUTOMATICALLY DISCONTINUE TRANSMISSION	58
7.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION	58
7.2 TEST RESULT OF AUTOMATICALLY DISCONTINUE TRANSMISSION	58



Table of Contents	Page
8. ANTENNA REQUIREMENT	59
8.1 STANDARD REQUIREMENT	59
8.2 EUT ANTENNA	59
APPENDIX - PHOTOS OF TEST SETUP	60





Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	11 Mar. 2021	STS2102020W05	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	Antenna Requirement	PASS

NOTE:

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

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



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong 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	$\pm 0.68\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.988\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 2.84\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.39\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 5.10\text{dB}$
6	All emissions, radiated >6G	$\pm 5.48\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.79\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.80\text{dB}$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Mobile Computing Device								
Trade Name	AMobile								
Model Name	G47								
Series Model	N/A								
Model Difference	N/A								
Product Description	The EUT is a Mobile Computing Device								
	<table border="1"> <tr> <td rowspan="4">Operation Frequency:</td> <td>IEEE 802.11a/ n(HT20)/ac(VHT20): 5.180GHz-5.240GHz</td> </tr> <tr> <td>IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz</td> </tr> <tr> <td>IEEE 802.11ac(VHT80): 5.210GHz</td> </tr> <tr> <td>IEEE 802.11a/ n(HT20)/ac(VHT20): 5.745GHz-5.825GHz</td> </tr> <tr> <td rowspan="2">Modulation Type:</td> <td>IEEE 802.11n(HT40)/ac(VHT40): 5.755GHz-5.795GHz</td> </tr> <tr> <td>IEEE 802.11ac(VHT80): 5.775GHz</td> </tr> </table>	Operation Frequency:	IEEE 802.11a/ n(HT20)/ac(VHT20): 5.180GHz-5.240GHz	IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz	IEEE 802.11ac(VHT80): 5.210GHz	IEEE 802.11a/ n(HT20)/ac(VHT20): 5.745GHz-5.825GHz	Modulation Type:	IEEE 802.11n(HT40)/ac(VHT40): 5.755GHz-5.795GHz	IEEE 802.11ac(VHT80): 5.775GHz
	Operation Frequency:		IEEE 802.11a/ n(HT20)/ac(VHT20): 5.180GHz-5.240GHz						
			IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz						
			IEEE 802.11ac(VHT80): 5.210GHz						
IEEE 802.11a/ n(HT20)/ac(VHT20): 5.745GHz-5.825GHz									
Modulation Type:	IEEE 802.11n(HT40)/ac(VHT40): 5.755GHz-5.795GHz								
	IEEE 802.11ac(VHT80): 5.775GHz								
<table border="1"> <tr> <td rowspan="3">Modulation Type:</td> <td>802.11a(OFDM): BPSK,QPSK,16-QAM,64-QAM</td> </tr> <tr> <td>802.11n(OFDM): BPSK,QPSK,16-QAM,64-QAM</td> </tr> <tr> <td>802.11ac(OFDM): BPSK,QPSK,16-QAM,64-QAM,256-QAM</td> </tr> </table>	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					
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								
Antenna Designation:	Please refer to the Note 3.								
Max.Output Power(Conducted):	9.92 dBm								
More details of EUT technical specification, please refer to the User's Manual.									
Test Channel	Please refer to the Note 2.								
Power Rating	Input: DC 5V/2A, 9V/2A, 12V/1.5A								
Battery	Rated Voltage: 3.8V Charge Limit Voltage: 4.35V Capacity: 4000mAh								
Hardware version number	DVT								
Software version number	v005.01.00								
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. Operation Frequency of channel			
5.180GHz-5.240GHz		5.745GHz-5.825GHz	
Channel	Frequency	Channel	Frequency
36	5180	149	5745
38	5190	151	5755
40	5200	153	5765
42	5210	157	5785
44	5220	159	5795
46	5230	161	5805
48	5240	165	5825

Note:

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

Carrier Frequency Channel

5GHz:

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

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

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

3. Ant	Brand	Model Name	Ant Type	Connector	Gain (dBi)	NOTE
A	AMobile	G47	PIFA	N/A	Band 1: 1.86dBi Band 4: 2.02dBi	WLAN Ant.

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



2.2 DESCRIPTION OF TEST MODES

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

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11a HT20 CH36&CH40&CH48	6 Mbps
Mode 2	TX IEEE 802.11a HT20 CH149&CH157&CH165	6 Mbps
Mode 3	TX IEEE 802.11n HT20 CH36&CH40&CH48	MCS 0
Mode 4	TX IEEE 802.11ac VHT20 CH36&CH40&CH48	NSS1 MCS0
Mode 5	TX IEEE 802.11n HT20 CH149&CH157&CH165	MCS 0
Mode 6	TX IEEE 802.11ac VHT20 CH149&CH157&CH165	NSS1 MCS0
Mode 7	TX IEEE 802.11n HT40 CH38&CH46	MCS 0
Mode 8	TX IEEE 802.11ac VHT40 CH38&CH46	NSS1 MCS0
Mode 9	TX IEEE 802.11n HT40 CH151&CH159	MCS 0
Mode 10	TX IEEE 802.11ac VHT40 CH151&CH159	NSS1 MCS0
Mode 11	TX IEEE 802.11ac VHT80 CH42	NSS1 MCS0
Mode 12	TX IEEE 802.11ac VHT80 CH155	NSS1 MCS0

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

AC Conducted Emission

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



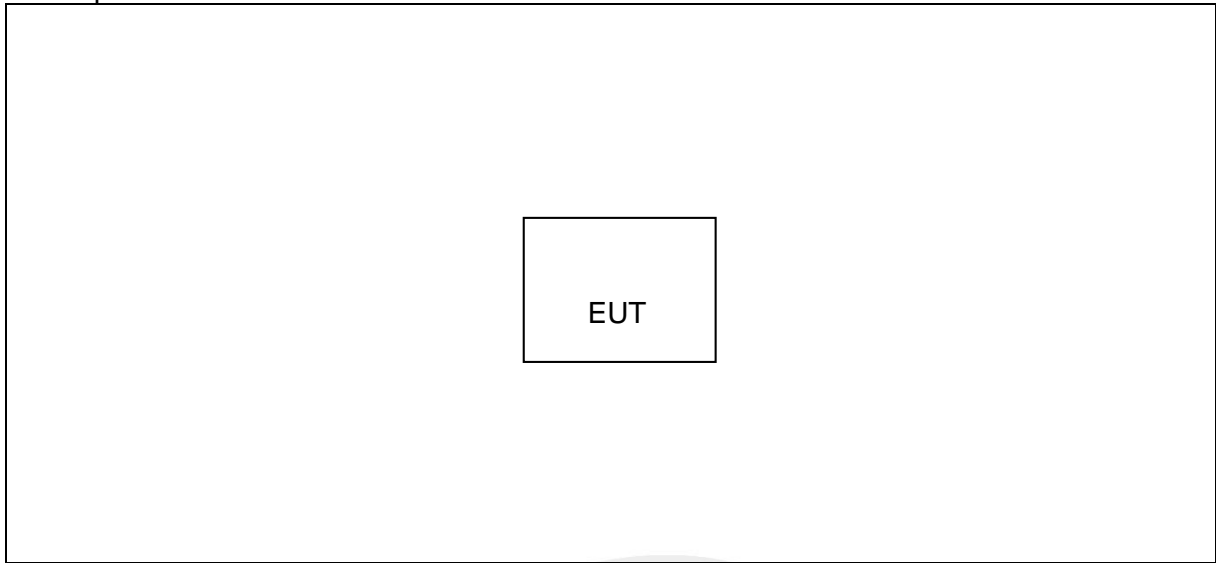
2.3 TEST SOFTWARE AND POWER LEVEL

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

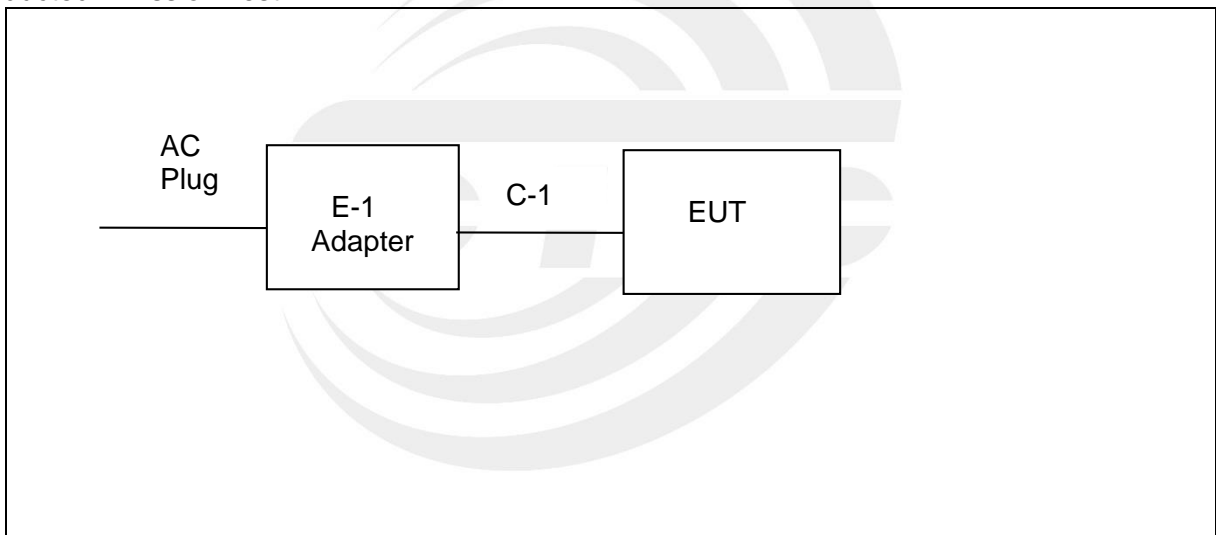
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
WIFI(5G)	5G WIFI Band1 (5150MHz-5250MHz)	802.11a	1.86	16	Engineering Mode
		802.11n(HT20)		16	
		802.11n(HT40)		16	
		802.11ac(VHT20)		16	
		802.11ac(VHT40)		16	
		802.11ac(VHT80)		10	
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
WIFI(5G)	5G WIFI Band4 (5725MHz-5850MHz)	802.11a	2.02	16	Engineering Mode
		802.11n(HT20)		16	
		802.11n(HT40)		16	
		802.11ac(VHT20)		16	
		802.11ac(VHT40)		16	
		802.11ac(VHT80)		10	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test





2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
C-1	USB Cable	N/A	N/A	200cm	NO

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-1	Adapter	HUAWEI	HW-050450C00	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2020.10.12	2021.10.11
Signal Analyzer	Agilent	N9020A	MY51110105	2020.10.10	2021.10.09
Active loop Antenna	ZHINAN	ZN30900C	16035	2019.07.11	2021.07.10
Bilog Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2019.10.15	2021.10.14
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2020.10.12	2022.10.11
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2020.10.12	2021.10.11
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2020.10.12	2021.10.11
Pre-Amplifier (18G-40GHz)	SKET	LNPA-1840-50	SK2018101801	2020.10.10	2021.10.09
Temperature & Humidity	HH660	Mieo	N/A	2020.10.13	2021.10.12
turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Test SW	FARAD	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	2020.10.12	2021.10.11
LISN	R&S	ENV216	101242	2020.10.12	2021.10.11
LISN	EMCO	3810/2NM	23625	2020.10.12	2021.10.11
Temperature & Humidity	HH660	Mieo	N/A	2020.10.12	2021.10.11
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 CE)			

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Power Sensor	Keysight	U2021XA	MY55520005	2020.10.10	2021.10.09
			MY55520006	2020.10.10	2021.10.09
			MY56120038	2020.10.10	2021.10.09
			MY56280002	2020.10.10	2021.10.09
Signal Analyzer	Agilent	N9020A	MY51110105	2021.03.04	2022.03.03
Temperature & Humidity	HH660	Mieo	N/A	2020.10.13	2021.10.12

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

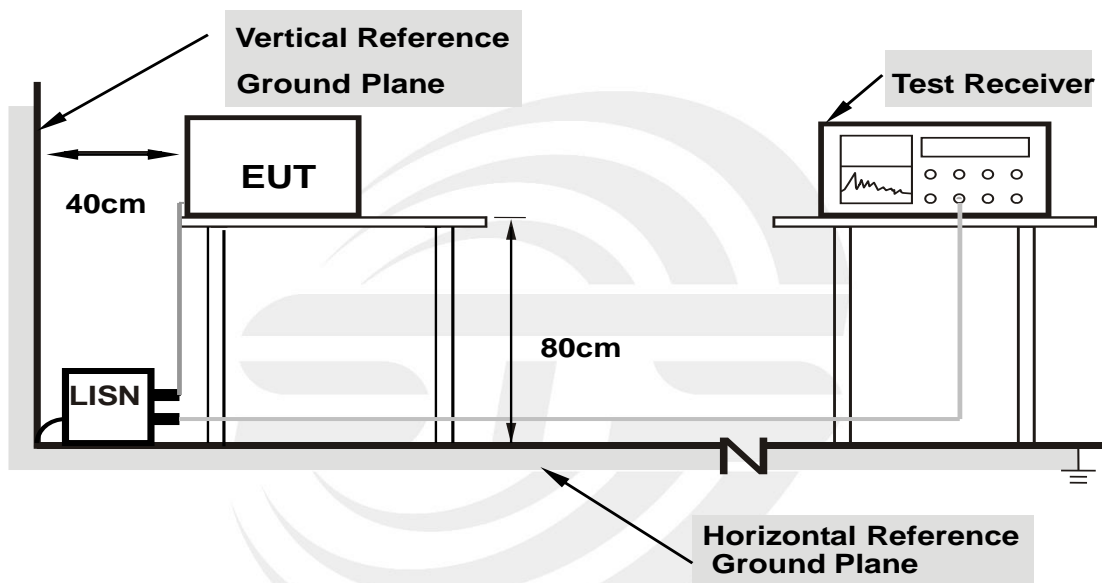
3.1.2 TEST PROCEDURE

- a. 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.
- b. 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.
- c. 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.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. 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.



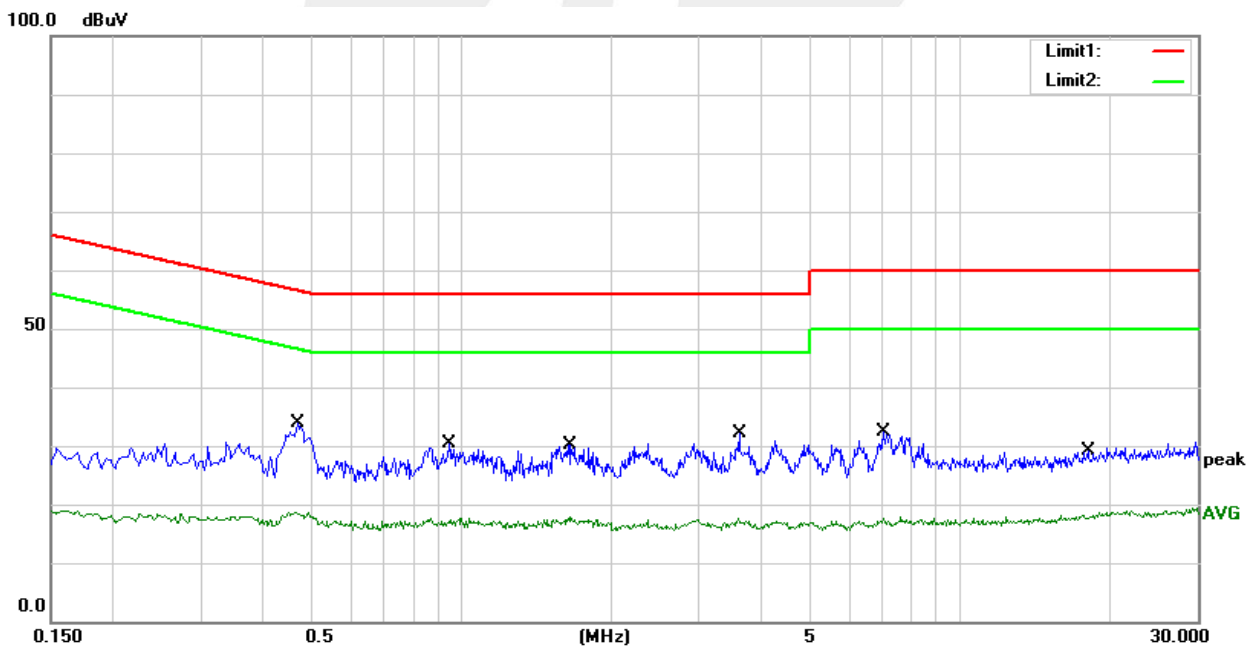
3.1.6 TEST RESULTS

Temperature:	26.8(C)	Relative Humidity:	66%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode :	Mode 13		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.4700	13.31	20.45	33.76	56.51	-22.75	QP
2	0.4700	-1.90	20.45	18.55	46.51	-27.96	AVG
3	0.9460	10.10	20.18	30.28	56.00	-25.72	QP
4	0.9460	-2.66	20.18	17.52	46.00	-28.48	AVG
5	1.6540	9.94	20.16	30.10	56.00	-25.90	QP
6	1.6540	-2.41	20.16	17.75	46.00	-28.25	AVG
7	3.6100	12.18	20.07	32.25	56.00	-23.75	QP
8	3.6100	-2.51	20.07	17.56	46.00	-28.44	AVG
9	7.0300	12.40	19.91	32.31	60.00	-27.69	QP
10	7.0300	-2.36	19.91	17.55	50.00	-32.45	AVG
11	18.0820	8.62	20.42	29.04	60.00	-30.96	QP
12	18.0820	-2.31	20.42	18.11	50.00	-31.89	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)



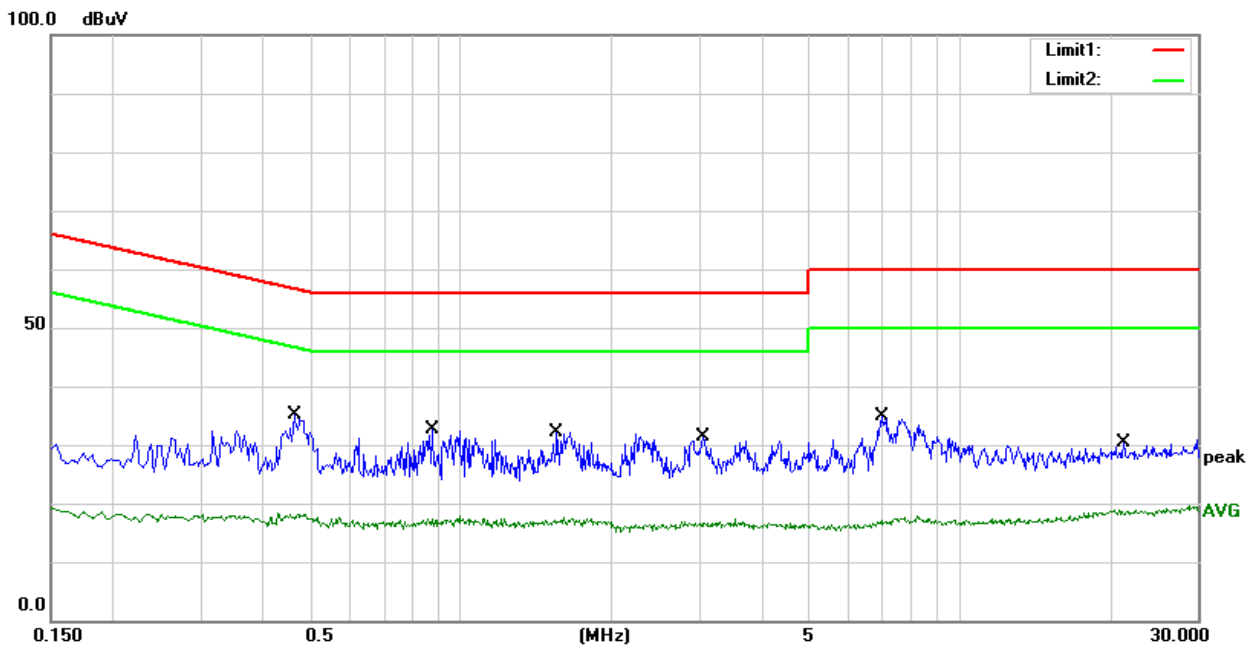


Temperature:	26.8(C)	Relative Humidity:	66%RH
Test Voltage	AC 120V/60Hz	Phase:	N
Test Mode	Mode 13		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.4620	14.69	20.46	35.15	56.66	-21.51	QP
2	0.4620	-2.31	20.46	18.15	46.66	-28.51	AVG
3	0.8740	12.39	20.21	32.60	56.00	-23.40	QP
4	0.8740	-2.78	20.21	17.43	46.00	-28.57	AVG
5	1.5540	12.04	20.16	32.20	56.00	-23.80	QP
6	1.5540	-2.64	20.16	17.52	46.00	-28.48	AVG
7	3.0700	11.38	20.08	31.46	56.00	-24.54	QP
8	3.0700	-3.44	20.08	16.64	46.00	-29.36	AVG
9	6.9900	14.90	19.91	34.81	60.00	-25.19	QP
10	6.9900	-2.88	19.91	17.03	50.00	-32.97	AVG
11	21.3460	9.68	20.64	30.32	60.00	-29.68	QP
12	21.3460	-1.79	20.64	18.85	50.00	-31.15	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)



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 (microrvolts/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) + 95.3.

Peak Limit = -27dBm/MHz + 95.3 = 68.3 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.

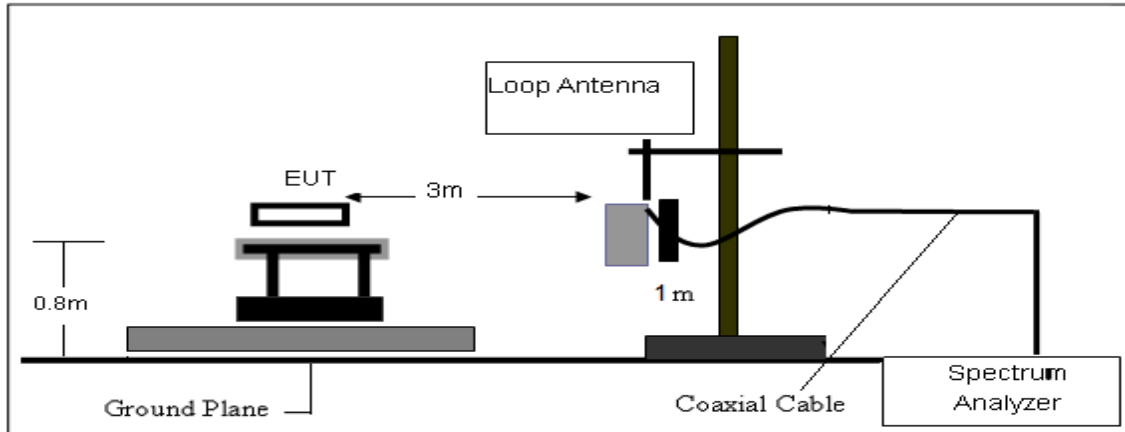
3.2.2 DEVIATION FROM TEST STANDARD

No deviation

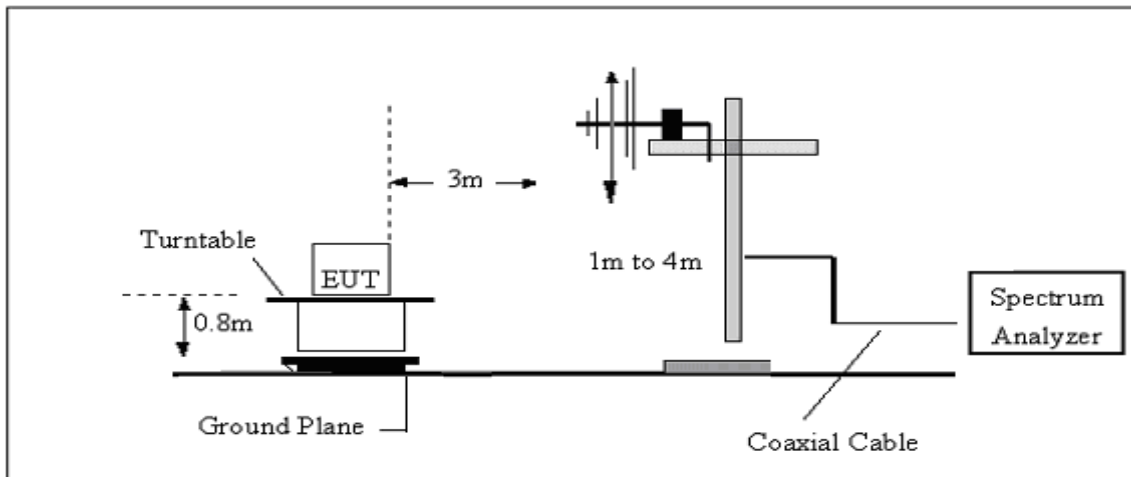


3.2.3 TEST SETUP

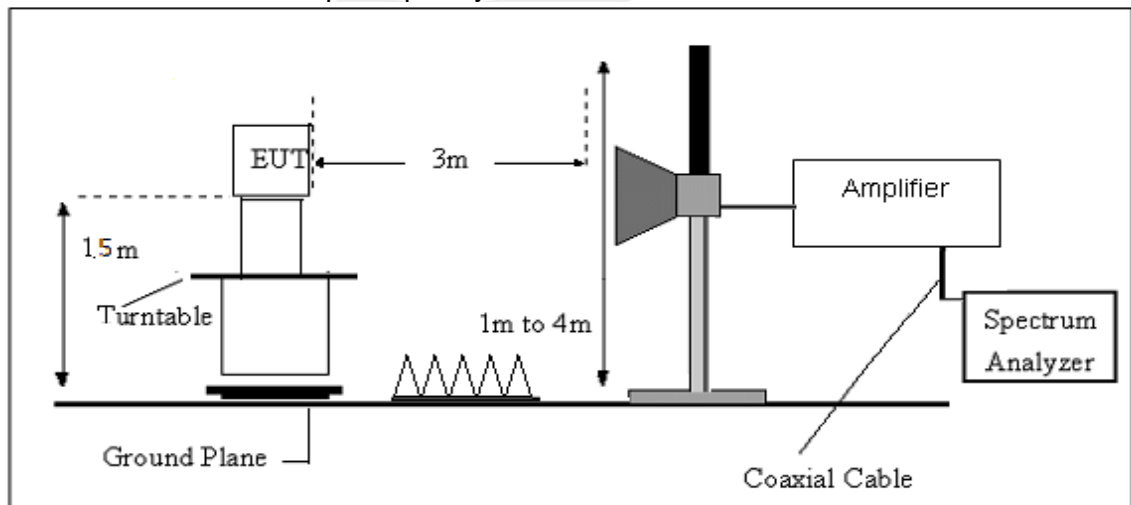
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 (MHz)	FS (dB μ V/m)	RA (dB μ V/m)	AF (dB)	CL (dB)	AG (dB)	Factor (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:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.8V	Polarization :	--
Test Mode:	TX Mode		

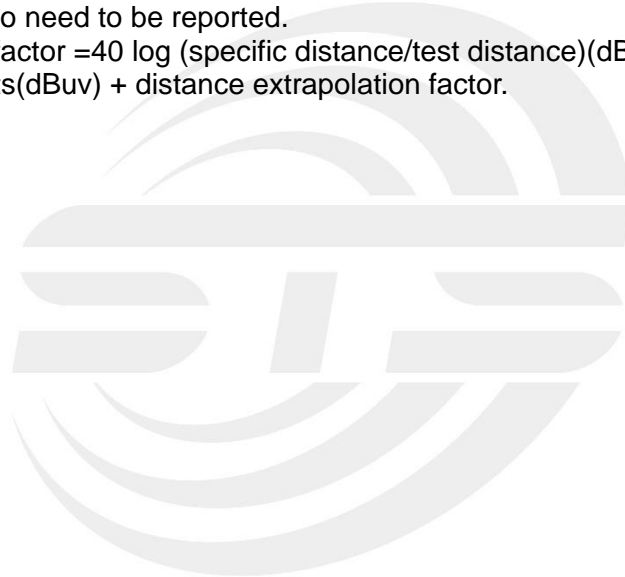
Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F
--	--	--	--	PASS
--	--	--	--	PASS

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

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





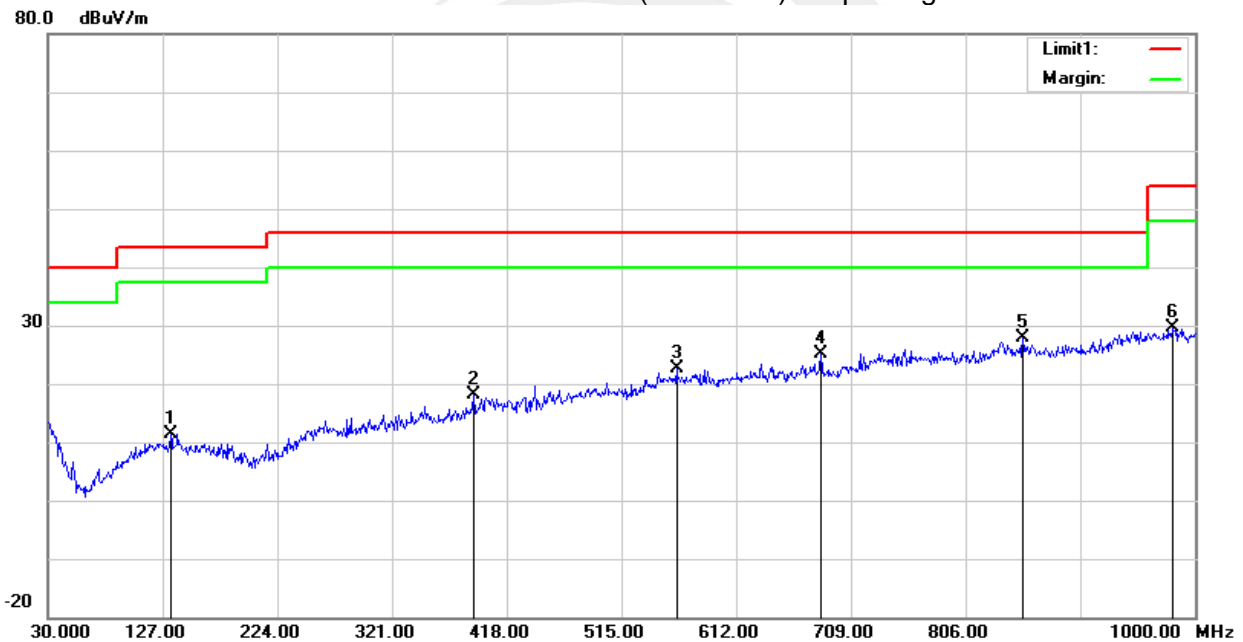
3.2.7 TEST RESULTS (Between 30MHz – 1GHz)

Temperature	23.1(C)	Relative Humidity:	60%RH
Test Voltage	DC 3.8V	Polarization:	Horizontal
Test Mode	Mode 1~12(Mode 2 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	133.7900	29.56	-18.14	11.42	43.50	-32.08	QP
2	389.8700	29.75	-11.60	18.15	46.00	-27.85	QP
3	561.5600	28.23	-5.51	22.72	46.00	-23.28	QP
4	683.7800	29.50	-4.31	25.19	46.00	-20.81	QP
5	854.5000	28.59	-0.61	27.98	46.00	-18.02	QP
6	981.5700	26.96	2.57	29.53	54.00	-24.47	QP

Remark:

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



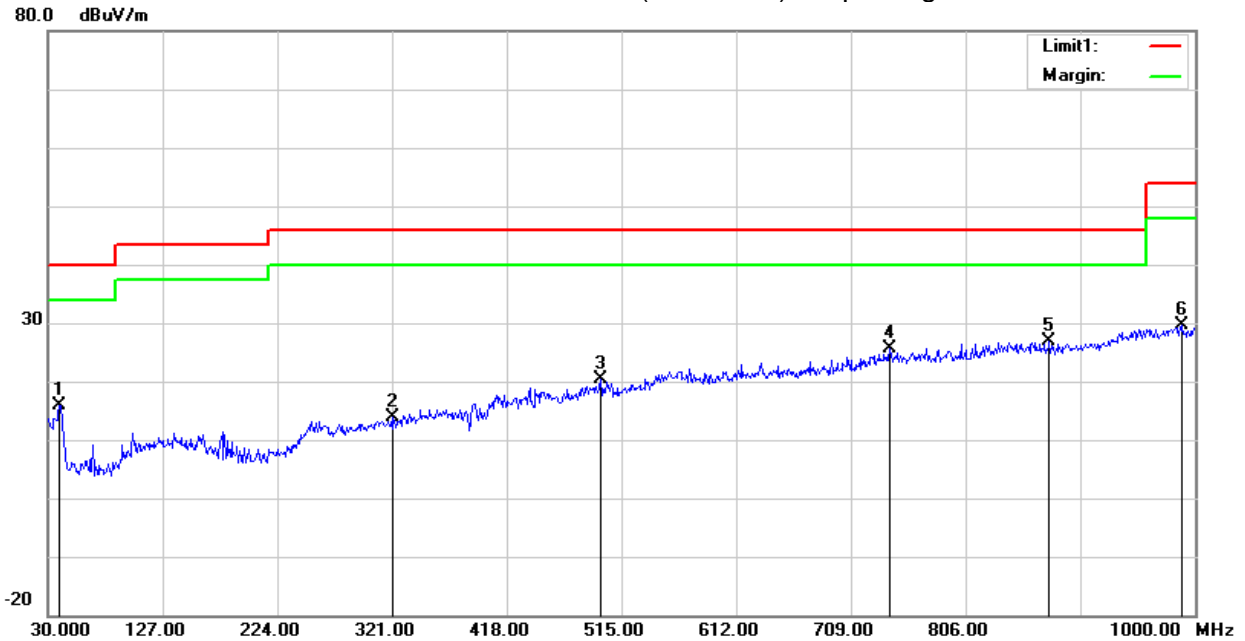


Temperature	23.1(C)	Relative Humidity:	60%RH
Test Voltage	DC 3.8V	Polarization:	Vertical
Test Mode	Mode 1~12(Mode 2 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	39.7000	33.68	-17.88	15.80	40.00	-24.20	QP
2	321.0000	27.85	-13.97	13.88	46.00	-32.12	QP
3	497.5400	28.48	-8.06	20.42	46.00	-25.58	QP
4	741.9800	27.72	-2.12	25.60	46.00	-20.40	QP
5	876.8100	27.51	-0.62	26.89	46.00	-19.11	QP
6	989.3300	27.44	2.09	29.53	54.00	-24.47	QP

Remark:

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



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

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 (802.11ac80/ 5210 MHz)										
3248.31	45.24	44.70	6.70	28.20	-9.80	35.44	68.20	-32.76	Pk	Vertical
3248.31	41.12	44.70	6.70	28.20	-9.80	31.32	54.00	-22.68	AV	Vertical
3250.65	44.95	44.70	6.70	28.20	-9.80	35.15	68.20	-33.05	Pk	Horizontal
3250.65	41.35	44.70	6.70	28.20	-9.80	31.55	54.00	-22.45	AV	Horizontal
3993.72	39.02	44.20	7.90	29.70	-6.60	32.42	68.20	-35.78	Pk	Vertical
3993.72	37.02	44.20	7.90	29.70	-6.60	30.42	54.00	-23.58	AV	Vertical
3982.55	39.70	44.20	7.90	29.70	-6.60	33.10	68.20	-35.10	Pk	Horizontal
3982.55	36.96	44.20	7.90	29.70	-6.60	30.36	54.00	-23.64	AV	Horizontal
7234.97	36.54	43.50	11.40	35.50	3.40	39.94	68.20	-28.26	Pk	Vertical
7234.97	33.80	43.50	11.40	35.50	3.40	37.20	54.00	-16.80	AV	Vertical
7221.37	37.76	43.50	11.40	35.50	3.40	41.16	68.20	-27.04	Pk	Horizontal
7221.37	33.48	43.50	11.40	35.50	3.40	36.88	54.00	-17.12	AV	Horizontal
10360.09	38.79	44.50	13.80	38.80	8.10	46.89	68.20	-21.31	Pk	Vertical
10360.09	36.36	44.50	13.80	38.80	8.10	44.46	54.00	-9.54	AV	Vertical
10360.14	39.29	44.50	13.80	38.80	8.10	47.39	68.20	-20.81	Pk	Horizontal
10360.14	36.59	44.50	13.80	38.80	8.10	44.69	54.00	-9.31	AV	Horizontal
11022.49	32.90	43.60	14.30	39.50	10.20	43.10	68.20	-25.10	Pk	Vertical
11022.49	30.61	43.60	14.30	39.50	10.20	40.81	54.00	-13.19	AV	Vertical
11029.70	33.12	43.60	14.30	39.50	10.20	43.32	68.20	-24.88	Pk	Horizontal
11029.70	31.02	43.60	14.30	39.50	10.20	41.22	54.00	-12.78	AV	Horizontal
13293.86	32.84	42.60	15.90	38.90	12.20	45.04	68.20	-23.16	Pk	Vertical
13293.86	29.67	42.60	15.90	38.90	12.20	41.87	54.00	-12.13	AV	Vertical
13293.55	32.58	42.60	15.90	38.90	12.20	44.78	68.20	-23.42	Pk	Horizontal
13293.55	28.84	42.60	15.90	38.90	12.20	41.04	54.00	-12.96	AV	Horizontal

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- Scan with 802.11a,802.11n (HT-20),802.11n (HT-40), 802.11ac (VHT-20),802.11ac (VHT-40), 802.11ac (VHT-80) the worst case is 802.11ac (VHT-80).
- 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.



Band IV(5.725-5.850) GHz

Frequency (MHz)	Reading	Amplifier	Loss	Antenna Factor	Orrected Factor	Emission Level	Limit (dBuV/m)	Margin	Detector	Comment
	(dBuV)	(dB)	(dB)	(dB/m)	(dB)	(dBuV/m)		(dB)		
Low Channel (802.11a/ 5745 MHz)										
3250.50	43.86	44.70	6.70	28.20	-9.80	34.06	68.20	-34.14	Pk	Vertical
3250.50	41.32	44.70	6.70	28.20	-9.80	31.52	54.00	-22.48	AV	Vertical
3251.23	45.20	44.70	6.70	28.20	-9.80	35.40	68.20	-32.80	Pk	Horizontal
3251.23	41.24	44.70	6.70	28.20	-9.80	31.44	54.00	-22.56	AV	Horizontal
3996.00	39.51	44.20	7.90	29.70	-6.60	32.91	68.20	-35.29	Pk	Vertical
3996.00	36.77	44.20	7.90	29.70	-6.60	30.17	54.00	-23.83	AV	Vertical
3986.36	40.08	44.20	7.90	29.70	-6.60	33.48	68.20	-34.72	Pk	Horizontal
3986.36	36.81	44.20	7.90	29.70	-6.60	30.21	54.00	-23.79	AV	Horizontal
7231.92	37.40	43.50	11.40	35.50	3.40	40.80	68.20	-27.40	Pk	Vertical
7231.92	34.18	43.50	11.40	35.50	3.40	37.58	54.00	-16.42	AV	Vertical
7236.39	37.23	43.50	11.40	35.50	3.40	40.63	68.20	-27.57	Pk	Horizontal
7236.39	34.49	43.50	11.40	35.50	3.40	37.89	54.00	-16.11	AV	Horizontal
10508.82	39.90	44.50	13.90	38.80	8.20	48.10	68.20	-20.10	Pk	Vertical
10508.82	36.17	44.50	13.90	38.80	8.20	44.37	54.00	-9.63	AV	Vertical
10506.81	39.44	44.50	13.90	38.80	8.20	47.64	68.20	-20.56	Pk	Horizontal
10506.81	35.70	44.50	13.90	38.80	8.20	43.90	54.00	-10.10	AV	Horizontal
11490.03	33.57	43.60	14.30	39.50	10.20	43.77	68.20	-24.43	Pk	Vertical
11490.03	30.67	43.60	14.30	39.50	10.20	40.87	54.00	-13.13	AV	Vertical
11490.44	33.20	43.60	14.30	39.50	10.20	43.40	68.20	-24.80	Pk	Horizontal
11490.44	31.07	43.60	14.30	39.50	10.20	41.27	54.00	-12.73	AV	Horizontal
13299.62	32.48	42.60	15.90	38.90	12.20	44.68	68.20	-23.52	Pk	Vertical
13299.62	29.23	42.60	15.90	38.90	12.20	41.43	54.00	-12.57	AV	Vertical
13294.48	32.32	42.60	15.90	38.90	12.20	44.52	68.20	-23.68	Pk	Horizontal
13294.48	29.26	42.60	15.90	38.90	12.20	41.46	54.00	-12.54	AV	Horizontal
Mid Channel (802.11a/ 5785 MHz)										
3245.68	44.14	44.70	6.70	28.20	-9.80	34.34	68.20	-33.86	Pk	Vertical
3245.68	42.12	44.70	6.70	28.20	-9.80	32.32	54.00	-21.68	AV	Vertical
3251.16	44.01	44.70	6.70	28.20	-9.80	34.21	68.20	-33.99	Pk	Horizontal
3251.16	41.16	44.70	6.70	28.20	-9.80	31.36	54.00	-22.64	AV	Horizontal
3997.94	39.69	44.20	7.90	29.70	-6.60	33.09	68.20	-35.11	Pk	Vertical
3997.94	36.55	44.20	7.90	29.70	-6.60	29.95	54.00	-24.05	AV	Vertical
3987.31	39.53	44.20	7.90	29.70	-6.60	32.93	68.20	-35.27	Pk	Horizontal
3987.31	36.52	44.20	7.90	29.70	-6.60	29.92	54.00	-24.08	AV	Horizontal
7216.61	37.82	43.50	11.40	35.50	3.40	41.22	68.20	-26.98	Pk	Vertical
7216.61	34.79	43.50	11.40	35.50	3.40	38.19	54.00	-15.81	AV	Vertical
7219.90	37.12	43.50	11.40	35.50	3.40	40.52	68.20	-27.68	Pk	Horizontal
7219.90	34.66	43.50	11.40	35.50	3.40	38.06	54.00	-15.94	AV	Horizontal
10587.08	39.86	44.50	13.80	38.80	8.10	47.96	68.20	-20.24	Pk	Vertical
10587.08	36.29	44.50	13.80	38.80	8.10	44.39	54.00	-9.61	AV	Vertical
10584.41	38.99	44.50	13.80	38.80	8.10	47.09	68.20	-21.11	Pk	Horizontal
10584.41	37.15	44.50	13.80	38.80	8.10	45.25	54.00	-8.75	AV	Horizontal
11569.99	33.38	43.60	14.30	39.50	10.20	43.58	68.20	-24.62	Pk	Vertical
11569.99	29.81	43.60	14.30	39.50	10.20	40.01	54.00	-13.99	AV	Vertical
11570.28	32.86	43.60	14.30	39.50	10.20	43.06	68.20	-25.14	Pk	Horizontal
11570.28	30.82	43.60	14.30	39.50	10.20	41.02	54.00	-12.98	AV	Horizontal
13286.76	32.73	42.60	15.90	38.90	12.20	44.93	68.20	-23.27	Pk	Vertical
13286.76	29.56	42.60	15.90	38.90	12.20	41.76	54.00	-12.24	AV	Vertical
13284.58	33.00	42.60	15.90	38.90	12.20	45.20	68.20	-23.00	Pk	Horizontal
13284.58	28.75	42.60	15.90	38.90	12.20	40.95	54.00	-13.05	AV	Horizontal



High Channel (802.11a/ 5825 MHz)										
3261.13	44.67	44.70	6.70	28.20	-9.80	34.87	68.20	-33.33	Pk	Vertical
3261.13	41.25	44.70	6.70	28.20	-9.80	31.45	54.00	-22.55	AV	Vertical
3263.82	43.91	44.70	6.70	28.20	-9.80	34.11	68.20	-34.09	Pk	Horizontal
3263.82	40.95	44.70	6.70	28.20	-9.80	31.15	54.00	-22.85	AV	Horizontal
3984.86	38.64	44.20	7.90	29.70	-6.60	32.04	68.20	-36.16	Pk	Vertical
3984.86	36.12	44.20	7.90	29.70	-6.60	29.52	54.00	-24.48	AV	Vertical
3994.03	39.74	44.20	7.90	29.70	-6.60	33.14	68.20	-35.06	Pk	Horizontal
3994.03	36.04	44.20	7.90	29.70	-6.60	29.44	54.00	-24.56	AV	Horizontal
7220.66	36.91	43.50	11.40	35.50	3.40	40.31	68.20	-27.89	Pk	Vertical
7220.66	34.55	43.50	11.40	35.50	3.40	37.95	54.00	-16.05	AV	Vertical
7216.52	37.93	43.50	11.40	35.50	3.40	41.33	68.20	-26.87	Pk	Horizontal
7216.52	34.47	43.50	11.40	35.50	3.40	37.87	54.00	-16.13	AV	Horizontal
10628.86	39.17	44.50	13.80	38.80	8.10	47.27	68.20	-20.93	Pk	Vertical
10628.86	37.12	44.50	13.80	38.80	8.10	45.22	54.00	-8.78	AV	Vertical
10640.19	38.73	44.50	13.80	38.80	8.10	46.83	68.20	-21.37	Pk	Horizontal
10640.19	36.76	44.50	13.80	38.80	8.10	44.86	54.00	-9.14	AV	Horizontal
11650.24	34.17	43.60	14.30	39.50	10.20	44.37	68.20	-23.83	Pk	Vertical
11650.24	29.91	43.60	14.30	39.50	10.20	40.11	54.00	-13.89	AV	Vertical
11649.96	33.43	43.60	14.30	39.50	10.20	43.63	68.20	-24.57	Pk	Horizontal
11649.96	30.00	43.60	14.30	39.50	10.20	40.20	54.00	-13.80	AV	Horizontal
13289.51	31.65	42.70	18.00	37.10	12.40	44.05	68.20	-24.15	Pk	Vertical
13289.51	28.80	42.70	18.00	37.10	12.40	41.20	54.00	-12.80	AV	Vertical
13285.76	32.01	42.70	18.00	37.10	12.40	44.41	68.20	-23.79	Pk	Horizontal
13285.76	29.62	42.70	18.00	37.10	12.40	42.02	54.00	-11.98	AV	Horizontal

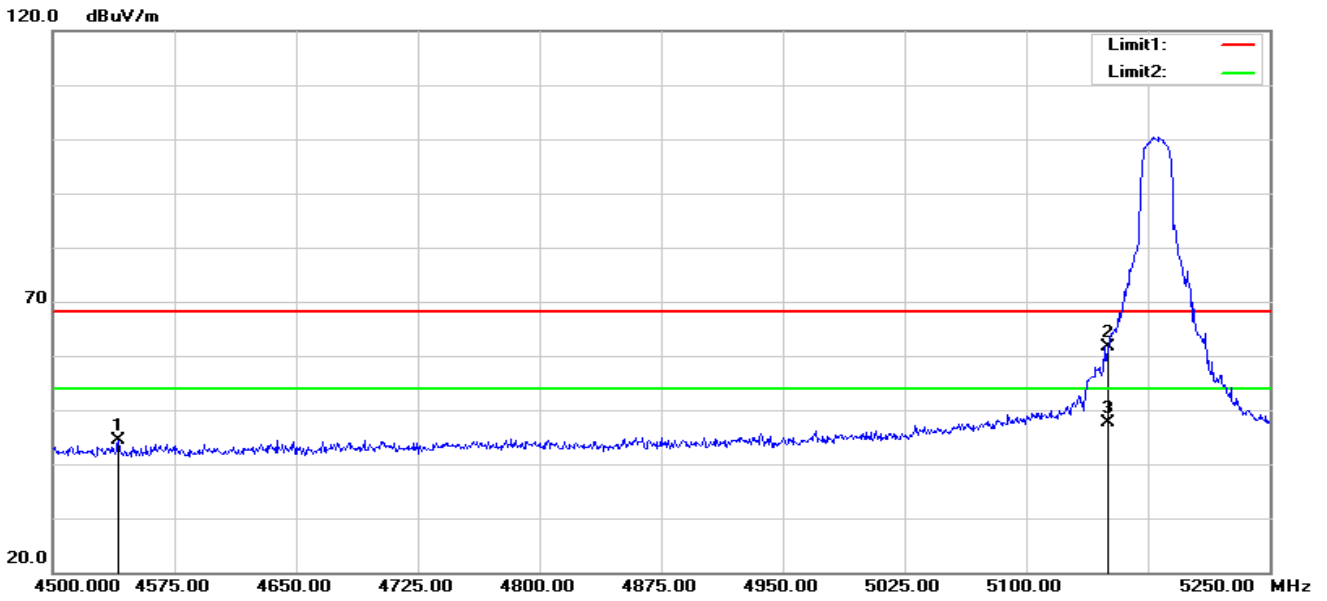
Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- Scan with 802.11a,802.11n (HT-20),802.11n (HT-40), 802.11ac (VHT-20),802.11ac (VHT-40), 802.11ac (VHT-80) the worst case is 802.11a.
- 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

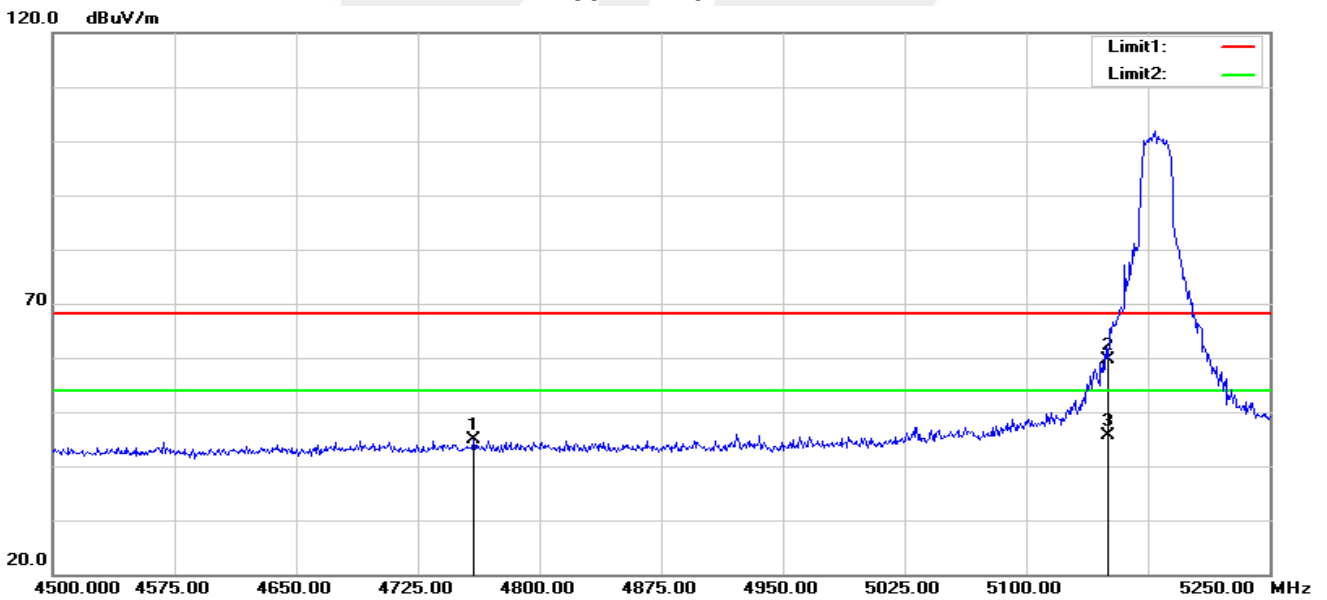
Band I 5150-5250MHz

802.11n20-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4540.500	52.19	-7.92	44.27	68.20	-23.93	peak
2	5150.000	67.41	-5.73	61.68	68.20	-6.52	peak
3	5150.000	53.29	-5.73	47.56	54.00	-6.44	AVG

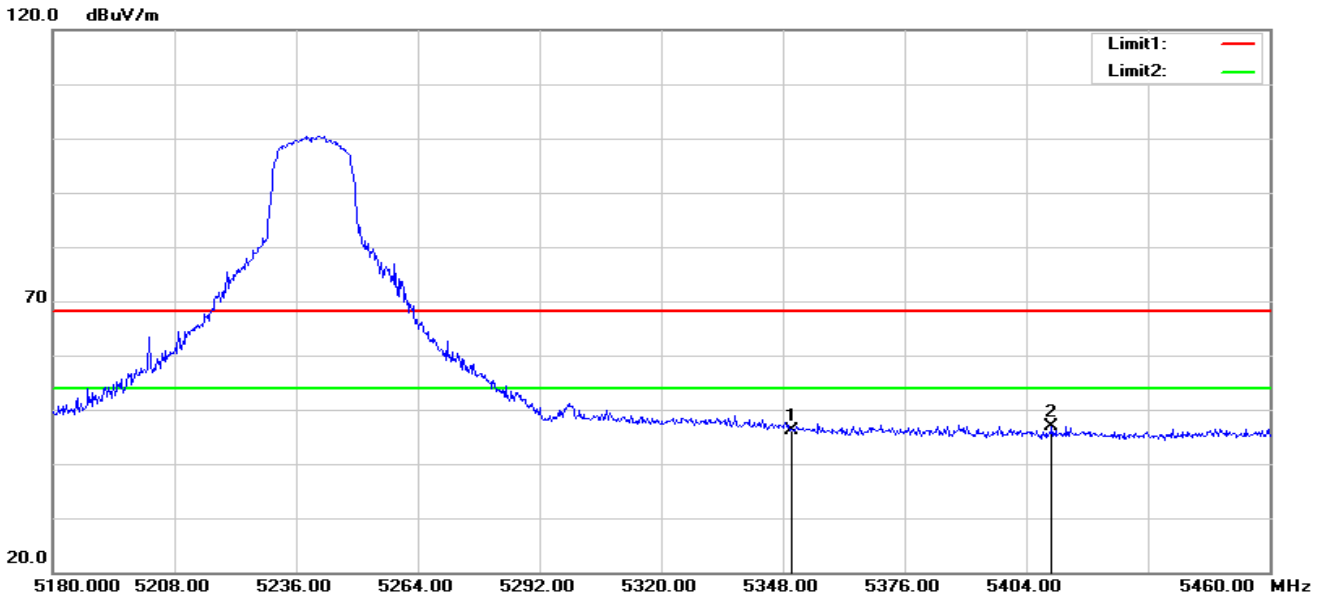
802.11n20-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4759.500	52.08	-7.28	44.80	68.20	-23.40	peak
2	5150.000	65.41	-5.73	59.68	68.20	-8.52	peak
3	5150.000	51.33	-5.73	45.60	54.00	-8.40	AVG

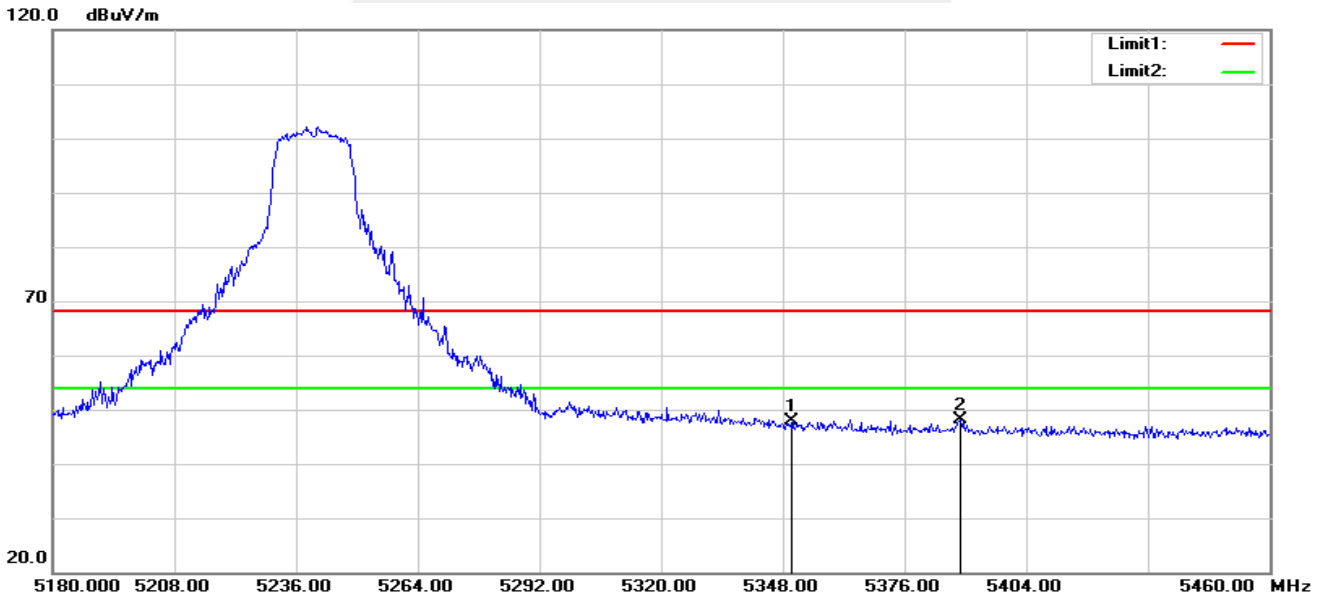


802.11n20-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	51.47	-5.23	46.24	68.20	-21.96	peak
2	5409.880	52.22	-5.23	46.99	68.20	-21.21	peak

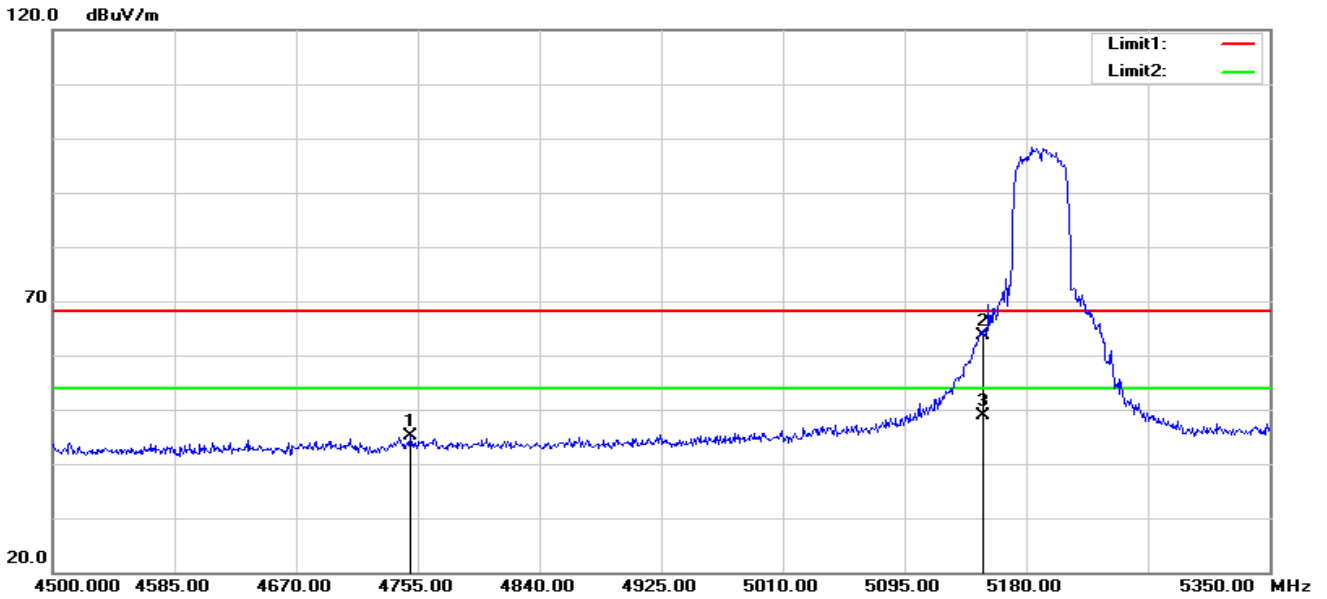
802.11n20-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	53.00	-5.23	47.77	68.20	-20.43	peak
2	5388.880	53.33	-5.25	48.08	68.20	-20.12	peak

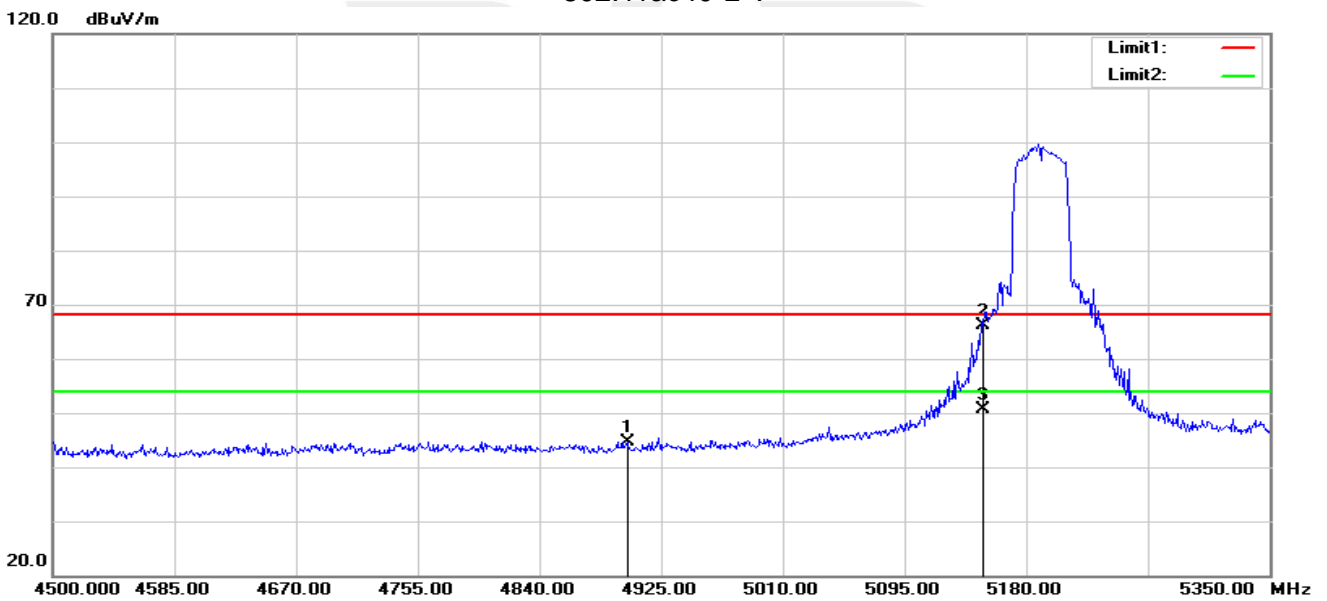


802.11ac40-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4749.900	52.46	-7.29	45.17	68.20	-23.03	peak
2	5150.000	69.48	-5.73	63.75	68.20	-4.45	peak
3	5150.000	54.50	-5.73	48.77	54.00	-5.23	AVG

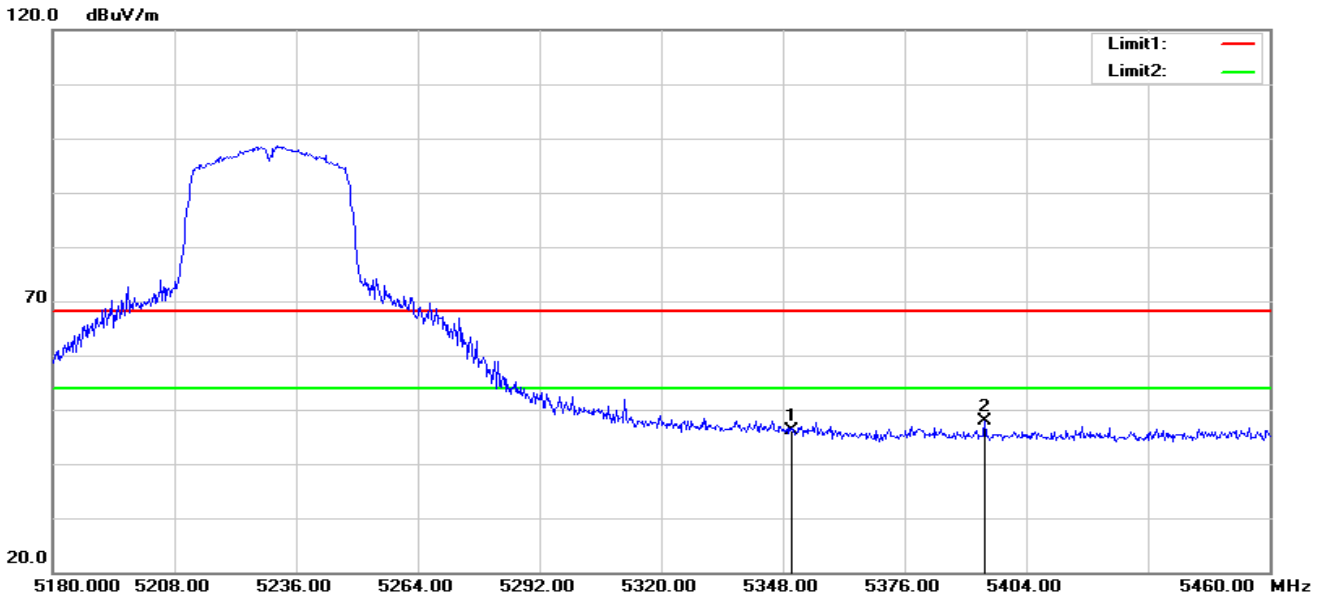
802.11ac40-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4901.200	51.54	-6.83	44.71	68.20	-23.49	peak
2	5150.000	71.98	-5.73	66.25	68.20	-1.95	peak
3	5150.000	56.42	-5.73	50.69	54.00	-3.31	AVG

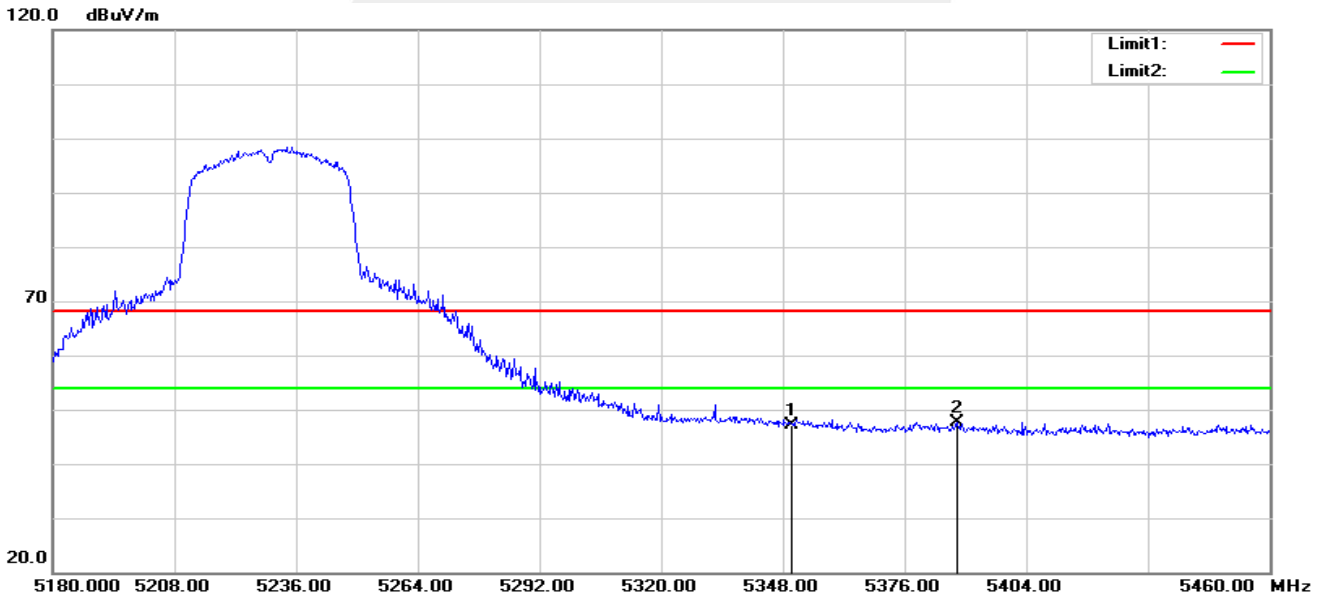


802.11ac40-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	51.31	-5.23	46.08	68.20	-22.12	peak
2	5394.480	53.04	-5.24	47.80	68.20	-20.40	peak

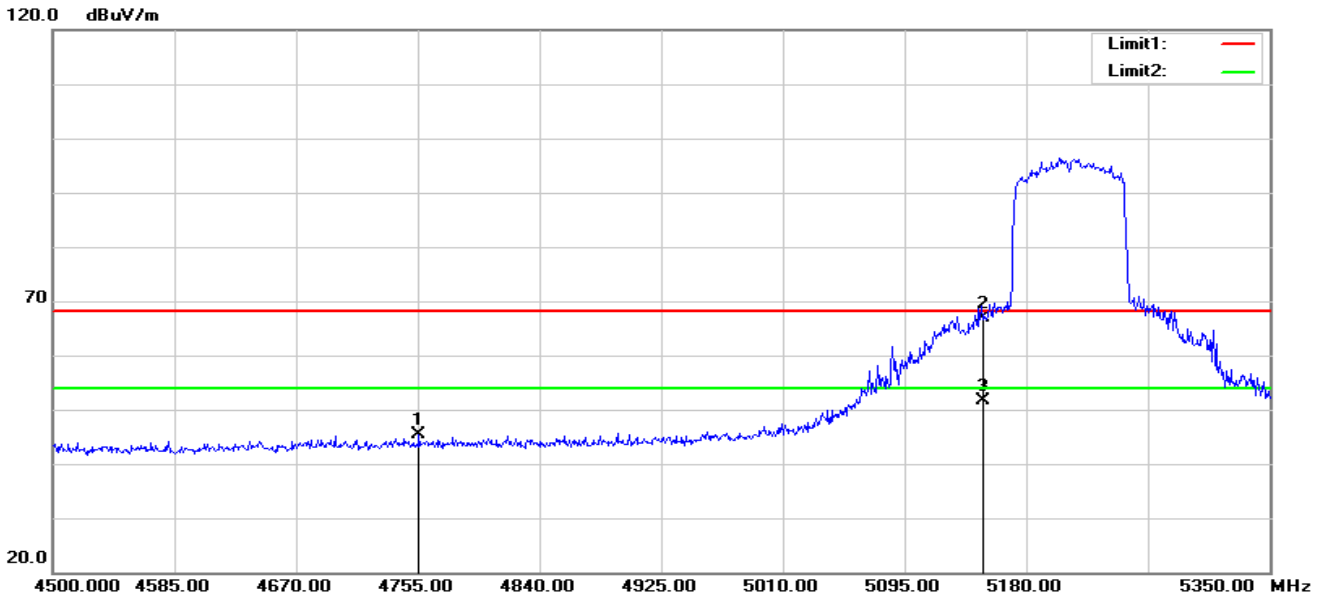
802.11ac40-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	52.37	-5.23	47.14	68.20	-21.06	peak
2	5388.040	52.90	-5.25	47.65	68.20	-20.55	peak

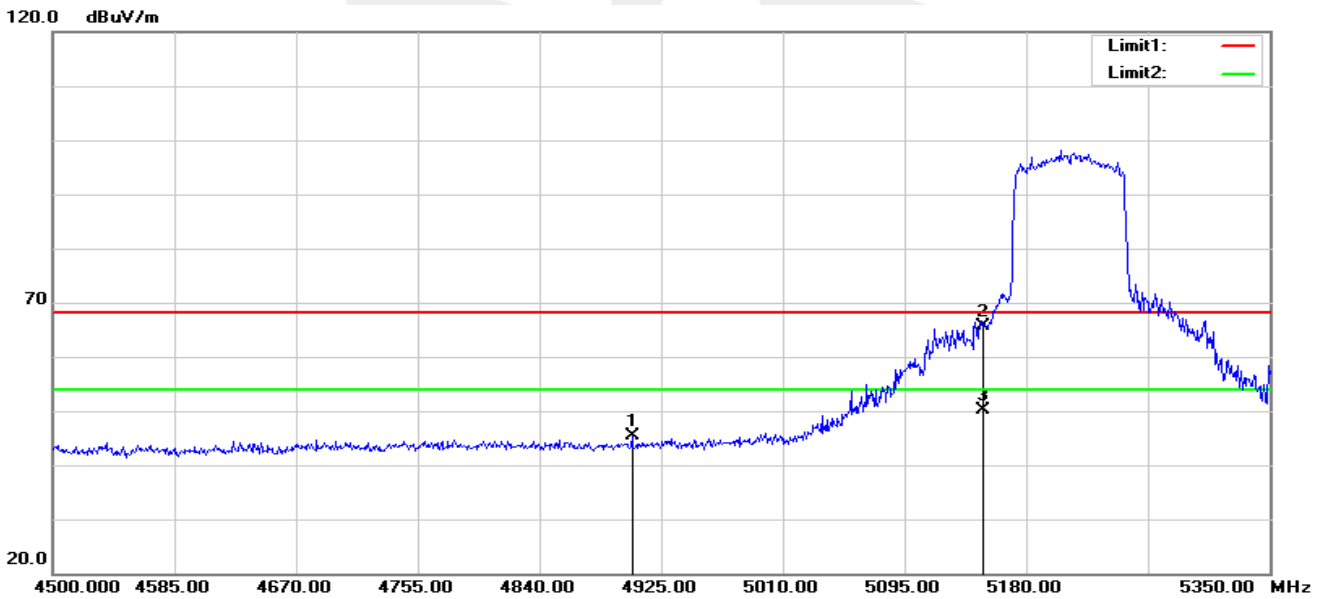


802.11ac80-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4755.850	52.63	-7.28	45.35	68.20	-22.85	peak
2	5150.000	72.69	-5.73	66.96	68.20	-1.24	peak
3	5150.000	57.29	-5.73	51.56	54.00	-2.44	AVG

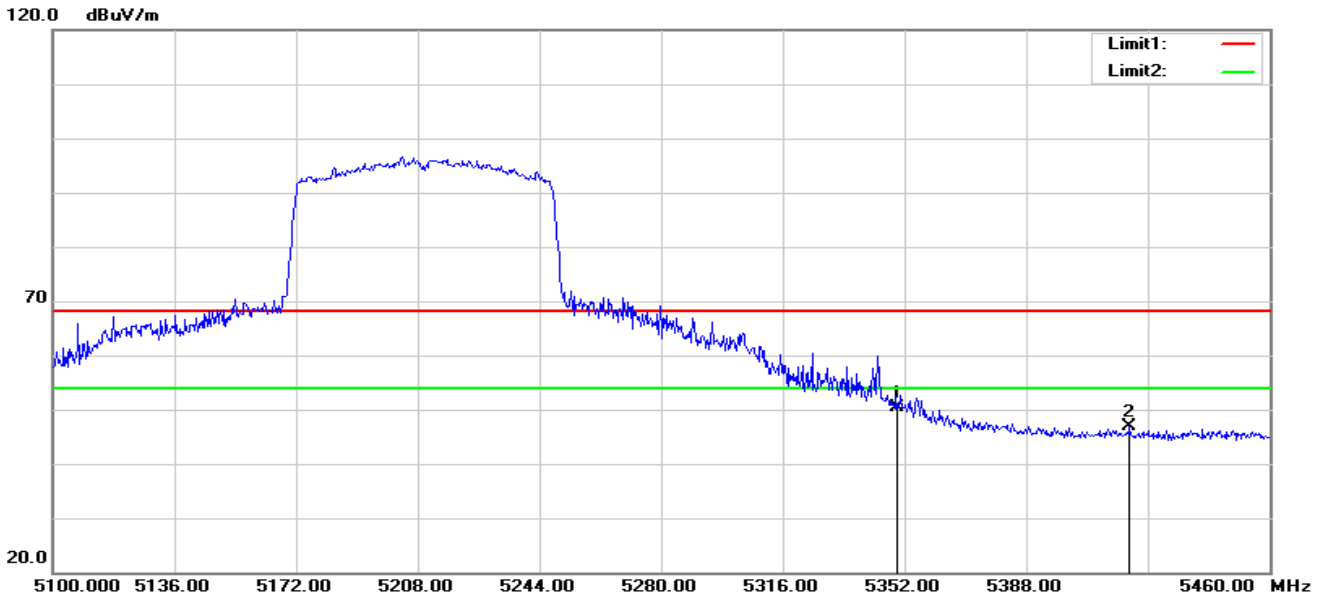
802.11ac80-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.600	52.16	-6.81	45.35	68.20	-22.85	peak
2	5150.000	71.40	-5.73	65.67	68.20	-2.53	peak
3	5150.000	55.91	-5.73	50.18	54.00	-3.82	AVG

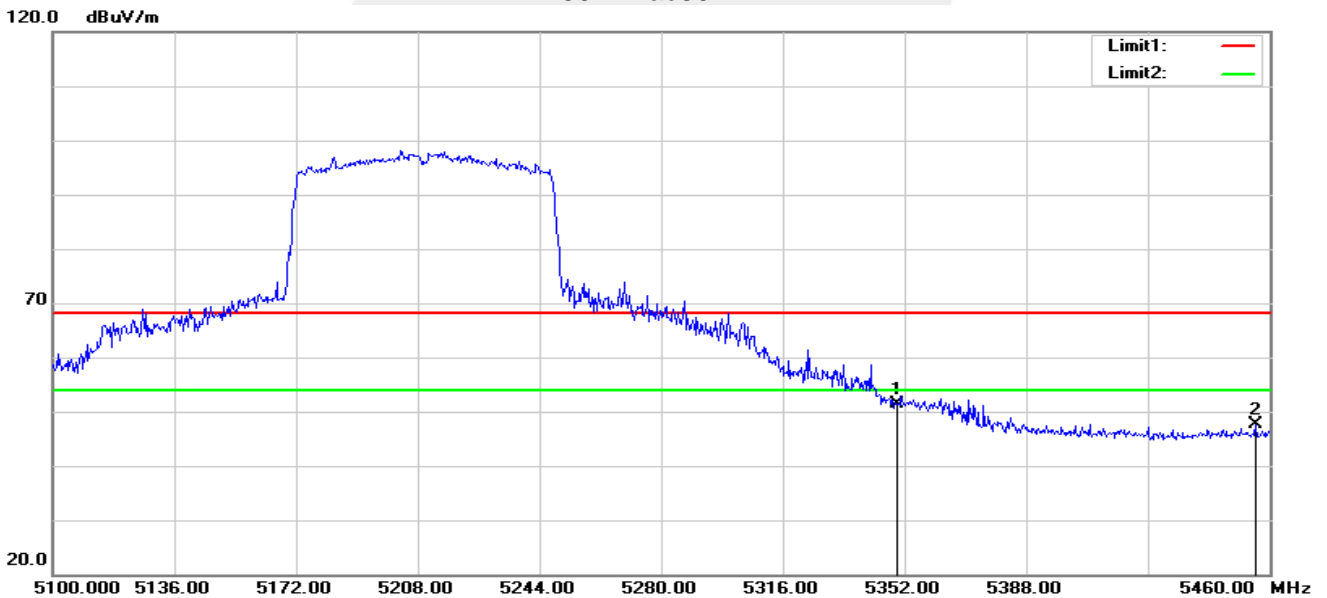


802.11ac80-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	55.65	-5.23	50.42	68.20	-17.78	peak
2	5418.600	52.07	-5.21	46.86	68.20	-21.34	peak

802.11ac80-H-V

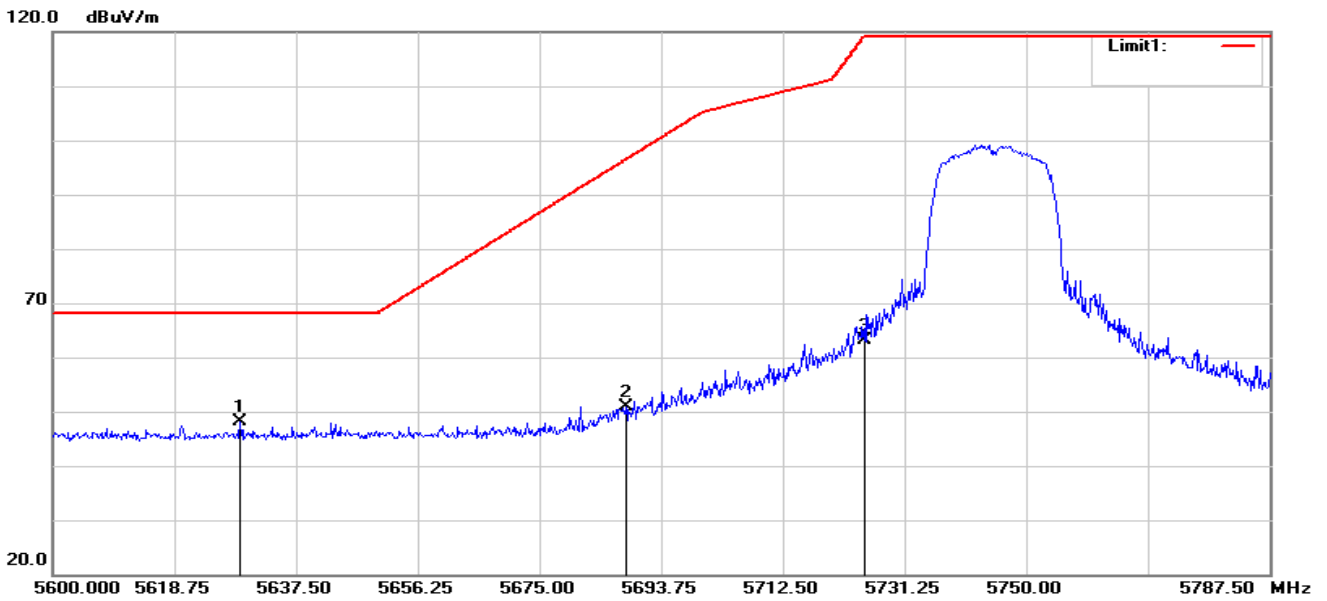


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	56.63	-5.23	51.40	68.20	-16.80	peak
2	5455.680	52.65	-5.13	47.52	68.20	-20.68	peak

Note: All modes have been tested. Only the worst mode shown in the report.

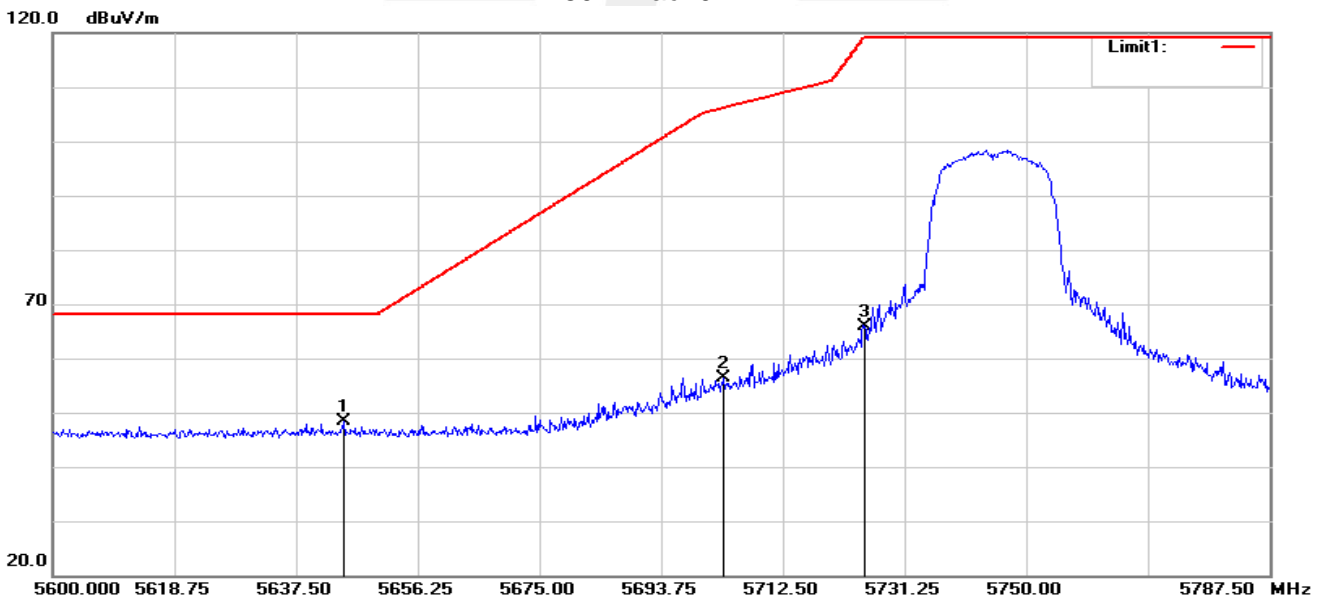
Band IV(5.725-5.85 GHz)

802.11ac20-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5628.875	52.80	-4.68	48.12	68.20	-20.08	peak
2	5688.313	55.61	-4.67	50.94	96.55	-45.61	peak
3	5725.000	67.82	-4.57	63.25	119.20	-55.95	peak

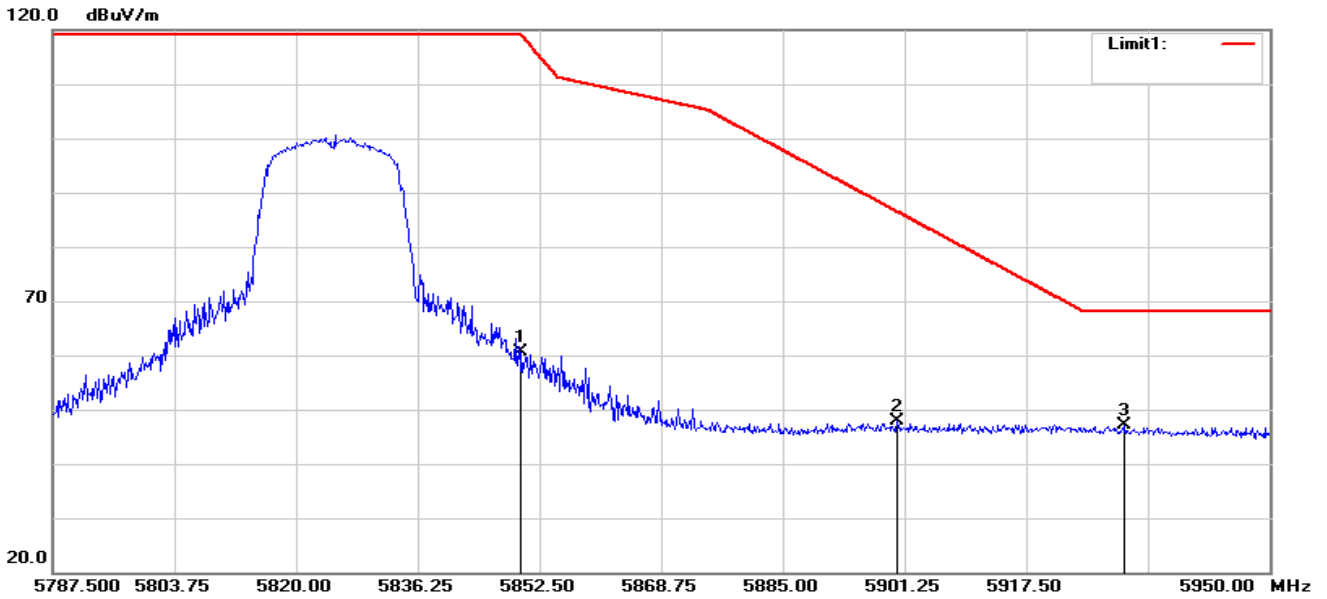
802.11ac20-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5644.813	53.04	-4.68	48.36	68.20	-19.84	peak
2	5703.313	61.06	-4.64	56.42	106.19	-49.77	peak
3	5725.000	70.35	-4.57	65.78	119.20	-53.42	peak

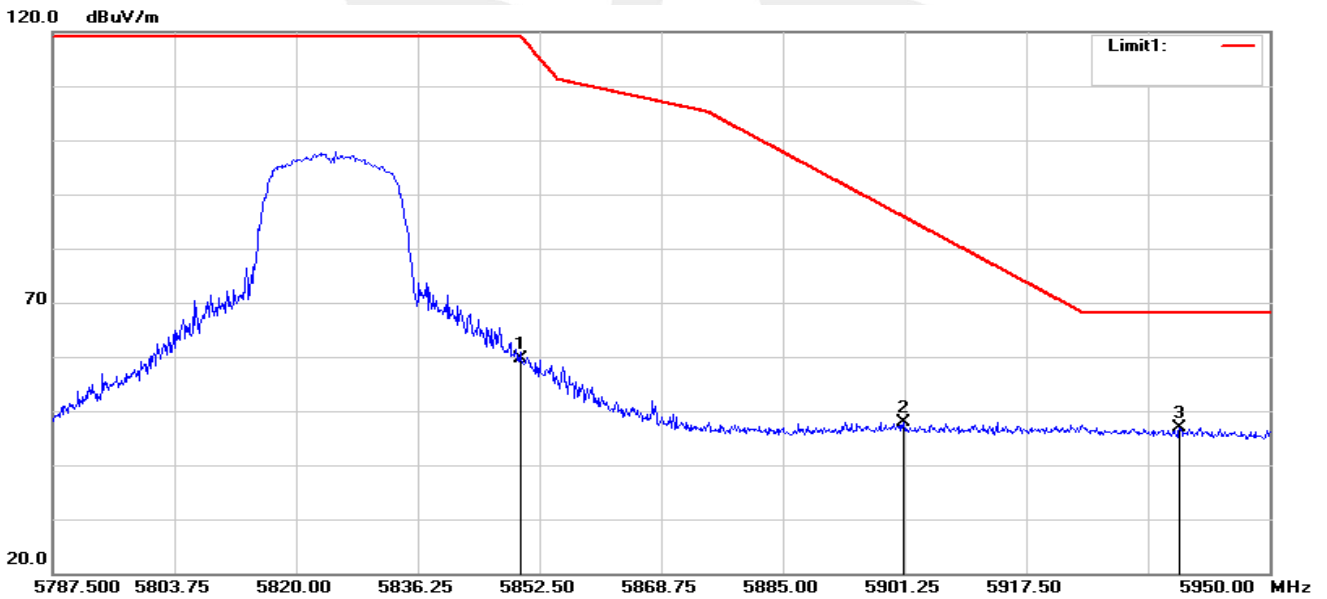


802.11ac20-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	64.61	-4.10	60.51	119.20	-58.69	peak
2	5900.275	51.70	-3.88	47.82	86.50	-38.68	peak
3	5930.663	51.00	-3.93	47.07	68.20	-21.13	peak

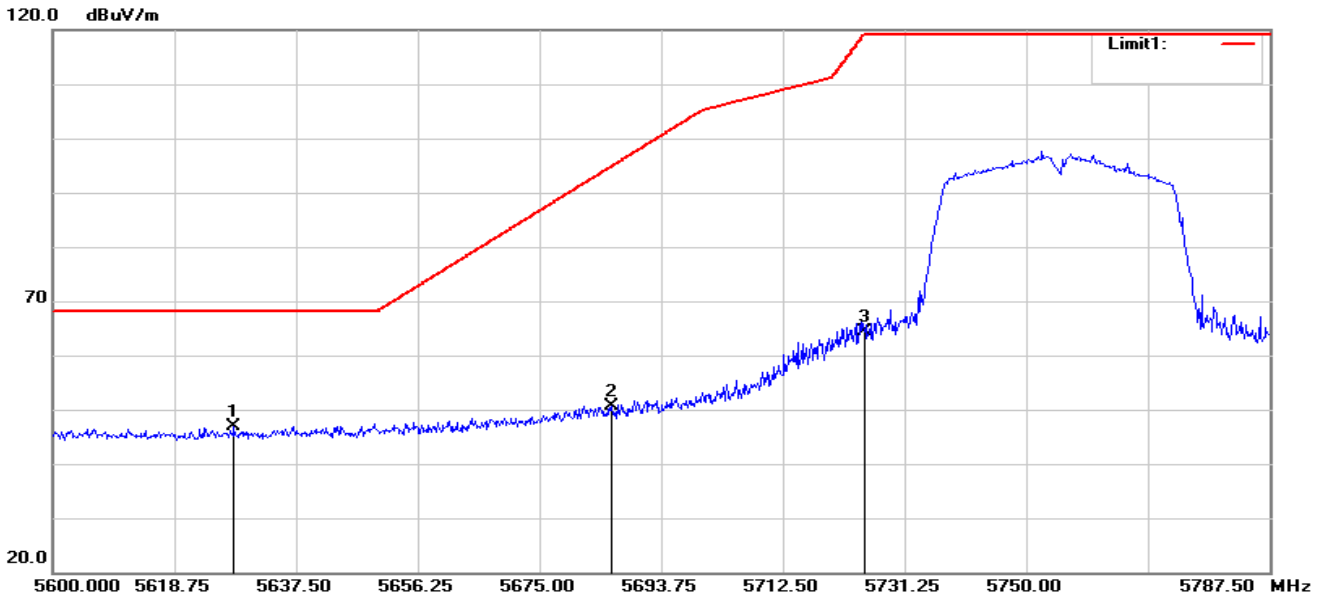
802.11ac20-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	63.73	-4.10	59.63	119.20	-59.57	peak
2	5901.087	51.75	-3.88	47.87	85.90	-38.03	peak
3	5937.975	50.76	-3.95	46.81	68.20	-21.39	peak

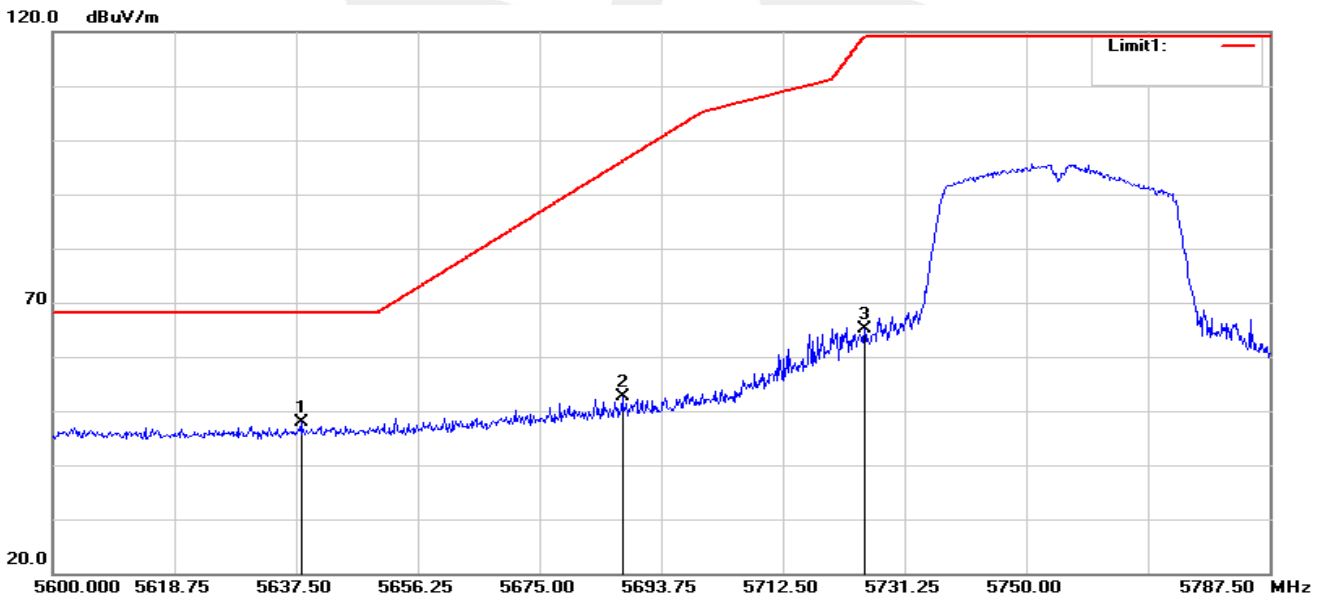


802.11ac40-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5627.938	51.54	-4.69	46.85	68.20	-21.35	peak
2	5686.063	55.26	-4.66	50.60	94.89	-44.29	peak
3	5725.000	69.05	-4.57	64.48	119.20	-54.72	peak

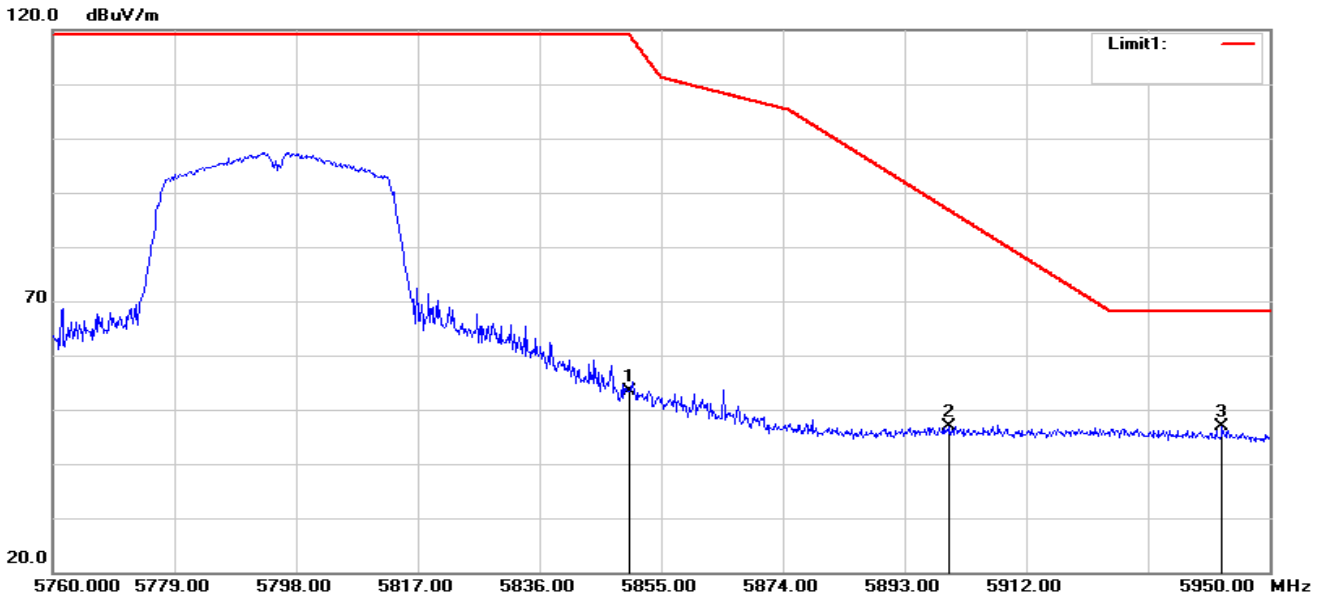
802.11ac40-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5638.250	52.60	-4.69	47.91	68.20	-20.29	peak
2	5687.750	57.30	-4.67	52.63	96.14	-43.51	peak
3	5725.000	69.65	-4.57	65.08	119.20	-54.12	peak

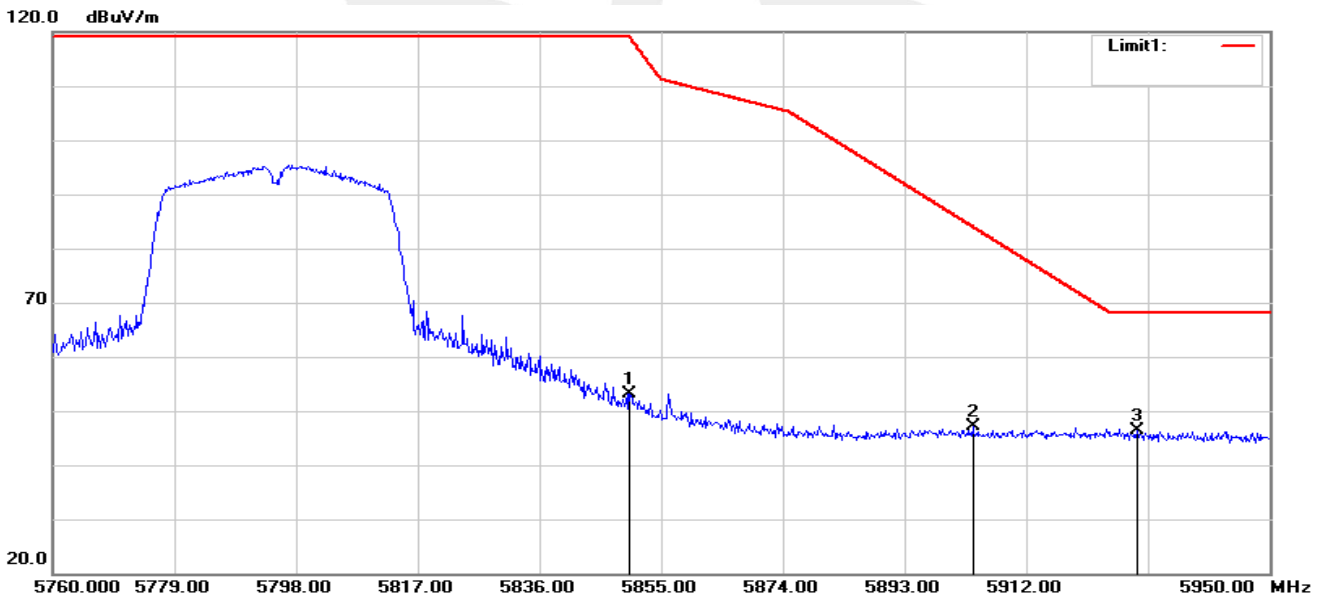


802.11ac40-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	57.36	-4.10	53.26	119.20	-65.94	peak
2	5900.030	50.68	-3.88	46.80	86.68	-39.88	peak
3	5942.590	50.93	-3.95	46.98	68.20	-21.22	peak

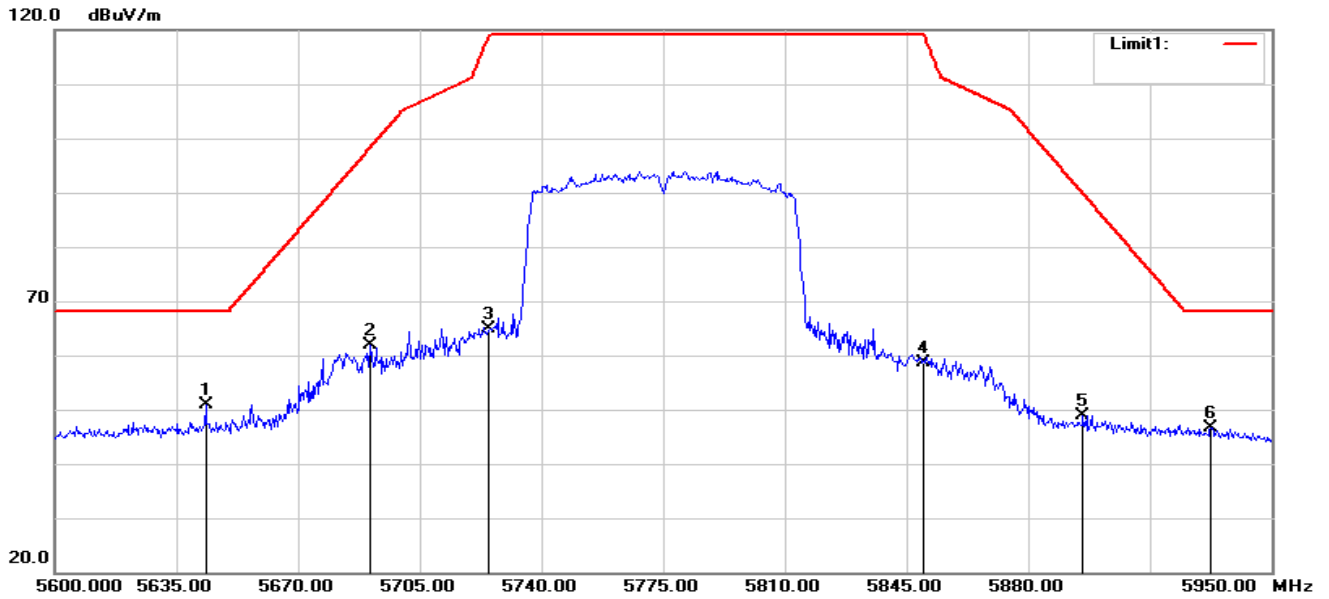
802.11ac40-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	57.16	-4.10	53.06	119.20	-66.14	peak
2	5903.640	50.90	-3.88	47.02	84.01	-36.99	peak
3	5929.290	50.37	-3.93	46.44	68.20	-21.76	peak



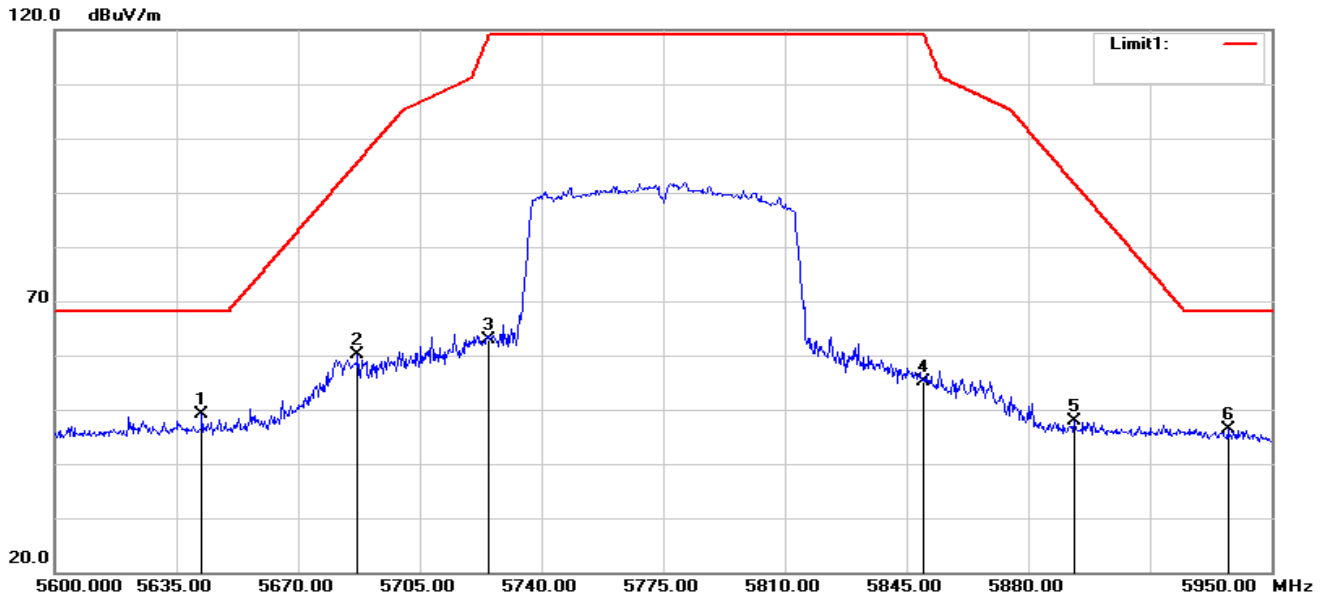
802.11ac80-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5643.400	55.61	-4.68	50.93	68.20	-17.27	peak
2	5690.650	66.58	-4.66	61.92	98.28	-36.36	peak
3	5725.000	69.56	-4.57	64.99	119.20	-54.21	peak
4	5850.000	62.84	-4.10	58.74	119.20	-60.46	peak
5	5895.750	52.89	-3.90	48.99	89.84	-40.85	peak
6	5932.500	50.53	-3.94	46.59	68.20	-21.61	peak



802.11ac80-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5642.350	53.69	-4.68	49.01	68.20	-19.19	peak
2	5687.150	64.68	-4.66	60.02	95.69	-35.67	peak
3	5725.000	67.56	-4.57	62.99	119.20	-56.21	peak
4	5850.000	59.35	-4.10	55.25	119.20	-63.95	peak
5	5893.300	51.73	-3.91	47.82	91.66	-43.84	peak
6	5937.400	50.36	-3.94	46.42	68.20	-21.78	peak

Note: All modes have been tested. Only the worst mode shown in the report.



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-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set span to encompass the EBW
3. Set RBW = 1MHz.
4. Set the VBW \geq 3MHz.
5. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto.
7. Detector = power averaging (rms), if available. Otherwise, use sample detector mode
8. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.

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

5150-5250MHz					
Frequency	Direct measurement Power Density (dBm)	Duty cycle factor (dB)	Final Power Density (dBm)	Limit (dBm)	Result
802.11a					
5180	-2.649	0.098	-2.551	11	PASS
5200	-1.858	0.098	-1.760	11	PASS
5240	-0.523	0.098	-0.425	11	PASS
802.11n20					
5180	-2.613	0.105	-2.508	11	PASS
5200	-2.030	0.105	-1.925	11	PASS
5240	-1.092	0.105	-0.987	11	PASS
802.11n40					
5190	-5.261	0.181	-5.080	11	PASS
5230	-4.044	0.181	-3.863	11	PASS
802.11ac20					
5180	-2.896	0.091	-2.805	11	PASS
5200	-2.230	0.091	-2.139	11	PASS
5240	-0.743	0.091	-0.652	11	PASS
802.11ac40					
5190	-5.154	0.242	-4.912	11	PASS
5230	-3.939	0.242	-3.697	11	PASS
802.11ac80					
5210	-14.820	0.413	-14.407	11	PASS



5725-5850MHz						
Frequency	Use RBW 510KHz direct measurement Direct measurement Power Density (dBm)	Convert to RBW 500KHz direct measurement Power Density (dBm)	Duty cycle factor (dB)	Final Power Density (dBm)	Limit (dBm)	Result
802.11a						
5745	-4.598	-4.684	0.070	-4.614	30	PASS
5785	-4.251	-4.337	0.070	-4.267	30	PASS
5825	-3.405	-3.491	0.070	-3.421	30	PASS
802.11n20						
5745	-5.028	-5.114	0.091	-5.023	30	PASS
5785	-4.407	-4.493	0.091	-4.402	30	PASS
5825	-3.650	-3.736	0.091	-3.645	30	PASS
802.11n40						
5755	-8.032	-8.118	0.193	-7.925	30	PASS
5795	-7.570	-7.656	0.193	-7.463	30	PASS
802.11ac20						
5745	-5.201	-5.287	0.071	-5.216	30	PASS
5785	-4.192	-4.278	0.071	-4.207	30	PASS
5825	-3.678	-3.764	0.071	-3.693	30	PASS
802.11ac40						
5755	-7.698	-7.784	0.218	-7.566	30	PASS
5795	-7.681	-7.767	0.218	-7.549	30	PASS
802.11ac80						
5775	-17.863	-17.949	0.484	-17.465	30	PASS

Note: 1. RB conversion formula: $10 \cdot \text{LOG}(500\text{KHz}/\text{RBW})$
 2. Test plots see Attachment A

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.

6.1.3 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**

Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
802.11a		
5180	19.65	Pass
5200	19.57	Pass
5240	19.58	Pass
802.11n(HT20)		
5180	20.03	Pass
5200	20.08	Pass
5240	19.84	Pass
802.11n(HT40)		
5190	39.88	Pass
5230	39.91	Pass
802.11ac(VHT20)		
5180	20.07	Pass
5200	20.04	Pass
5240	19.88	Pass
802.11ac(VHT40)		
5190	40.20	Pass
5230	40.22	Pass
802.11ac(VHT80)		
5210	80.52	Pass

Frequency (MHz)	26dB Bandwidth (MHz)	Pass/Fail
802.11a		
5745	19.69	Pass
5785	19.89	Pass
5825	19.61	Pass
802.11n(HT20)		
5745	20.05	Pass
5785	20.10	Pass
5825	20.06	Pass
802.11n(HT40)		
5755	40.23	Pass
5795	40.38	Pass
802.11ac(VHT20)		
5745	19.86	Pass
5785	20.06	Pass
5825	19.96	Pass
802.11ac(VHT40)		
5755	40.33	Pass
5795	40.11	Pass
802.11ac(VHT80)		
5775	80.47	Pass

Test plot see Attachment B

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

Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
802.11a		
5180	16.412	Pass
5200	16.386	Pass
5240	16.362	Pass
802.11n(HT20)		
5180	17.543	Pass
5200	17.514	Pass
5240	17.523	Pass
802.11n(HT40)		
5190	35.955	Pass
5230	35.980	Pass
802.11ac(VHT20)		
5180	17.523	Pass
5200	17.510	Pass
5240	17.533	Pass
802.11ac(VHT40)		
5190	35.950	Pass
5230	35.949	Pass
802.11ac(VHT80)		
5210	75.243	Pass

Frequency (MHz)	99% Bandwidth (MHz)	Pass/Fail
802.11a		
5745	16.392	Pass
5785	16.399	Pass
5825	16.388	Pass
802.11n(HT20)		
5745	17.530	Pass
5785	17.542	Pass
5825	17.540	Pass
802.11n(HT40)		
5755	35.972	Pass
5795	35.939	Pass
802.11ac(VHT20)		
5745	17.529	Pass
5785	17.551	Pass
5825	17.533	Pass
802.11ac(VHT40)		
5755	35.957	Pass
5795	35.930	Pass
802.11ac(VHT80)		
5775	75.385	Pass

Test plot See Attachment B

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.

**6.3.5 TEST RESULTS**

Frequency (MHz)	6dB Bandwidth (MHz)	Pass/Fail
802.11a		
5745	15.04	Pass
5785	15.08	Pass
5825	14.98	Pass
802.11n(HT20)		
5745	15.09	Pass
5785	15.09	Pass
5825	15.11	Pass
802.11n(HT40)		
5755	35.10	Pass
5795	35.10	Pass
802.11ac(VHT20)		
5745	15.11	Pass
5785	15.12	Pass
5825	15.11	Pass
802.11ac(VHT40)		
5755	35.11	Pass
5795	35.11	Pass
802.11ac(VHT80)		
5775	75.18	Pass

Test plot see Attachment C

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 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 dBm + 10 log (26 dB emission bandwidth)	5250-5350 5470-5725	
15.407(a) (3)		1 watt	5725-5825	

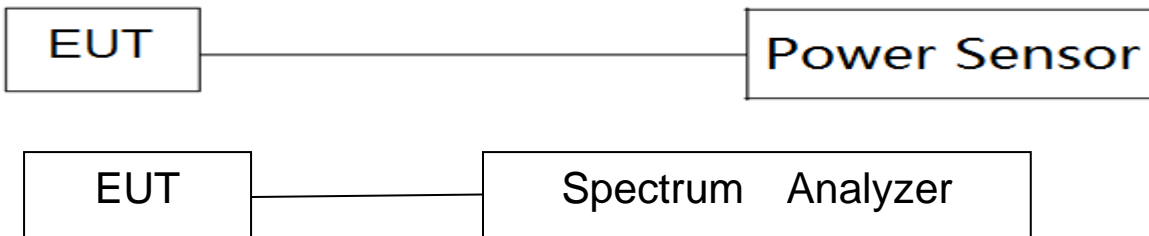
6.2 TEST PROCEDURE

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

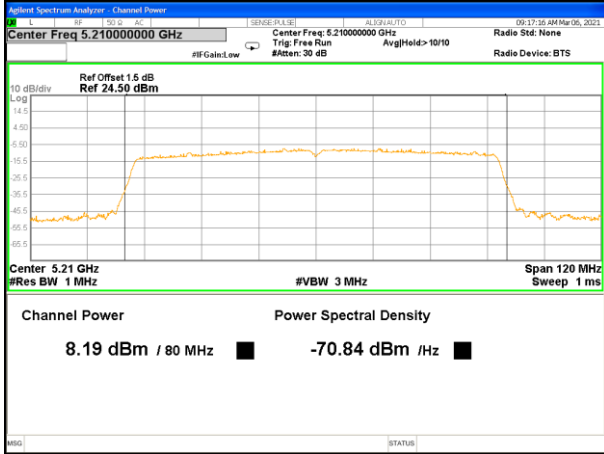
The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.

**6.6 TEST RESULTS**

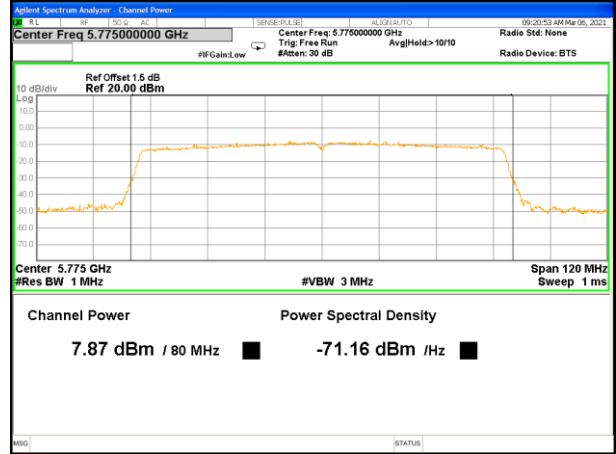
Band I (5.15-5.25GHz)					
Test Channel	Frequency (MHz)	Direct measurement AV Power (dBm)	Duty cycle factor (dB)	Final AV Power (dBm)	LIMIT (dBm)
802.11a					
36	5180	6.47	0.098	6.57	23.98
40	5200	6.91	0.098	7.01	23.98
48	5240	7.56	0.098	7.66	23.98
802.11n(HT20)					
36	5180	6.33	0.105	6.43	23.98
40	5200	6.76	0.105	6.86	23.98
48	5240	7.41	0.105	7.51	23.98
802.11n(HT40)					
38	5190	6.26	0.181	6.44	23.98
46	5230	7.09	0.181	7.27	23.98
802.11ac(VHT20)					
36	5180	6.29	0.091	6.38	23.98
40	5200	6.67	0.091	6.76	23.98
48	5240	7.39	0.091	7.48	23.98
802.11ac(VHT40)					
38	5190	6.21	0.242	6.45	23.98
46	5230	6.94	0.242	7.18	23.98
802.11ac(VHT80)					
42	5210	8.19	0.413	8.60	23.98



Band IV (5.725-5.85GHz)					
Test Channel	Frequency (MHz)	Direct measurement AV Power (dBm)	Duty cycle factor (dB)	Final AV Power (dBm)	LIMIT (dBm)
802.11a					
149	5745	8.89	0.070	8.96	30.00
157	5785	9.24	0.070	9.31	30.00
165	5825	9.85	0.070	9.92	30.00
802.11n(HT20)					
149	5745	8.53	0.091	8.62	30.00
157	5785	9.13	0.091	9.22	30.00
165	5825	9.58	0.091	9.67	30.00
802.11n(HT40)					
151	5755	8.55	0.193	8.74	30.00
159	5795	8.99	0.193	9.18	30.00
802.11ac(VHT20)					
149	5745	8.63	0.071	8.70	30.00
157	5785	9.23	0.071	9.30	30.00
165	5825	9.76	0.071	9.83	30.00
802.11ac(VHT40)					
151	5755	8.35	0.218	8.57	30.00
159	5795	8.97	0.218	9.19	30.00
802.11ac(VHT80)					
155	5775	7.87	0.484	8.35	30.00



5210MHz



5775MHz





Duty cycle

Band1				
Mode	Ton(ms)	Tp(ms)	Duty cycle(%)	Duty factor(dB)
a	1.404	1.436	97.77%	0.098
n20	1.312	1.344	97.62%	0.105
n40	0.658	0.686	95.92%	0.181
ac20	1.328	1.356	97.94%	0.091
ac40	0.662	0.700	94.57%	0.242
ac80	0.331	0.364	90.93%	0.413
Band4				
Mode	Ton(ms)	Tp(ms)	Duty cycle(%)	Duty factor(dB)
a	1.412	1.435	98.40%	0.070
n20	1.324	1.352	97.93%	0.091
n40	0.660	0.690	95.65%	0.193
ac20	1.328	1.350	98.37%	0.071
ac40	0.662	0.696	95.11%	0.218
ac80	0.331	0.370	89.46%	0.484





Band 1-a20



Band 1-n20



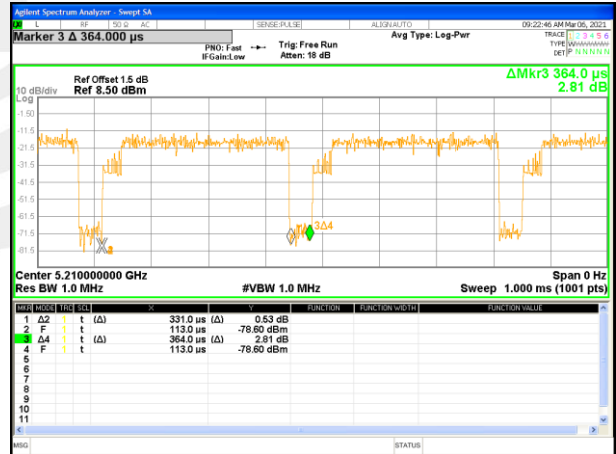
Band 1-n40



Band 1-ac20



Band 1-ac40



Band 1-ac80



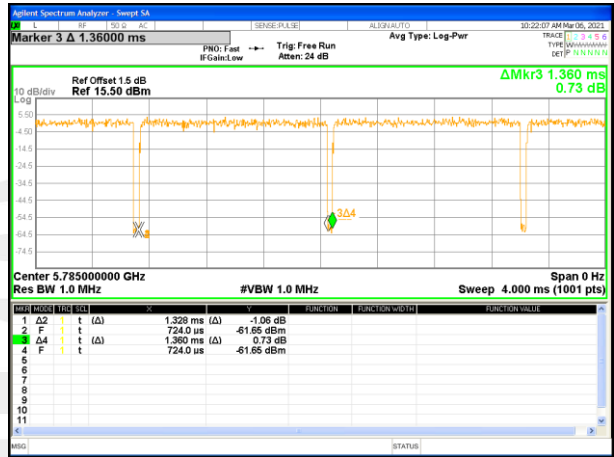
Band 4-a20



Band 4-n20



Band 4-n40



Band 4-ac20



Band 4-ac40



Band 4-ac80



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 PIFA 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※※※※※

