



RADIO TEST REPORT

Report No.: STS2005284W03

Issued for

Hangzhou Hikvision Digital Technology Co., Ltd.

No. 555 Qianmo Road, Binjiang District, Hangzhou, 310052
Zhejiang, P.R. China

Product Name:	Fingerprint Access Control Terminal
Brand Name:	HIKVISION
Model Name:	DS-K1T201AMF
Series Model:	DS-K1T201AMFUHK, DS-K1T201AMFCKV, DS-K1T201AMFUVS, DS-K1T201AMFKVO, DS-K1T201AMFHUN
FCC ID:	2ADTD-K1T201AMF
Test Standard:	CFR47 FCC Part 15: Subpart C Section 15.247

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TEST RESULT CERTIFICATION

Applicant's Name : Hangzhou Hikvision Digital Technology Co., Ltd.

Address : No.555 Qianmo Road, Binjiang District Hangzhou 310052, China

Manufacture's Name : Hangzhou Hikvision Digital Technology Co., Ltd.

Address : No.555 Qianmo Road, Binjiang District Hangzhou 310052, China

Product Description

Product Name : Fingerprint Access Control Terminal

Brand Name : HIKVISION

Model Name : DS-K1T201AMF

SeriesModel : DS-K1T201AMFUHK, DS-K1T201AMFCKV, DS-K1T201AMFUVS,
DS-K1T201AMFKVO, DS-K1T201AMFHUN

Test Standards : CFR47 FCC Part 15: Subpart C Section 15.247

Test Procedure : ANSI C63.10-2013

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

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Date of Test :

Date of receipt of test item : 28 May 2020

Date (s) of performance of tests : 28 May 2020 ~ 10 June 2020

Date of Issue : 10 June 2020

Test Result : **Pass**

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sean she)

Authorized Signatory :

(Vita Li)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	10 June 2020	STS2005284W03	ALL	Initial Issue





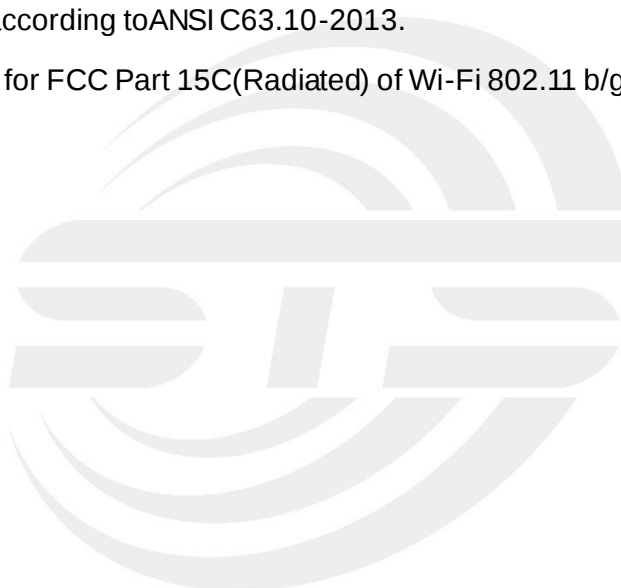
1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247 Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207(a)	Conducted Emission	PASS	--
15.247 (d)	Radiated Spurious Emission	PASS	--
15.205	Restricted Band Edge Emission	PASS	--

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2013.
- (3) This report is for FCC Part 15C(Radiated) of Wi-Fi 802.11 b/g/n requirements only.





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 30-1GHz	$\pm 6.7\text{dB}$
4	All emissions, radiated 1G-6GHz	$\pm 5.5\text{dB}$
5	All emissions, radiated >6G	$\pm 5.8\text{dB}$
6	Conducted Emission (9KHz-150KHz)	$\pm 4.43\text{dB}$
7	Conducted Emission (150KHz-30MHz)	$\pm 5\text{dB}$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Fingerprint Access Control Terminal														
Trade Name	HIKVISION														
Model Name	DS-K1T201AMF														
Series Model	DS-K1T201AMFUHK, DS-K1T201AMFCKV, DS-K1T201AMFUVS, DS-K1T201AMFKVO, DS-K1T201AMFHUN														
Model Difference	All models are fully identical except model name.														
Product Description	The EUT is an optical fingerprint access control terminal with multiple advanced technologies including fingerprint recognition, Wi-Fi 802.11 b/g/n, card recognition(RFID), 2.8-inch LCD display screen. It is equipped with optical fingerprint recognition module, and supports offline operation. <table><tr><td>Operation Frequency:</td><td>802.11b/g/n 20: 2412~2462 MHz 802.11n(40MHz):2422~2452MHz</td></tr><tr><td>Modulation Type:</td><td>802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM</td></tr><tr><td>Bit Rate of Transmitter:</td><td>802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz): 65/58.5/52/39/26/19.5/13/6.5Mbps 802.11n(40MHz): 135/121.5/108/81/54/40.5/37/13.5Mbps</td></tr><tr><td>Number of Channel:</td><td>802.11b/g/n20: 11CH 802.11n 40: 7CH</td></tr><tr><td>Antenna Designation:</td><td>Please refer to the Note 3.</td></tr><tr><td>AntennaGain (dBi):</td><td>2.13 dBi</td></tr><tr><td>Duty Cycle:</td><td>>98%</td></tr></table>	Operation Frequency:	802.11b/g/n 20: 2412~2462 MHz 802.11n(40MHz):2422~2452MHz	Modulation Type:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz): 65/58.5/52/39/26/19.5/13/6.5Mbps 802.11n(40MHz): 135/121.5/108/81/54/40.5/37/13.5Mbps	Number of Channel:	802.11b/g/n20: 11CH 802.11n 40: 7CH	Antenna Designation:	Please refer to the Note 3.	AntennaGain (dBi):	2.13 dBi	Duty Cycle:	>98%
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Number of Channel:	802.11b/g/n20: 11CH 802.11n 40: 7CH														
Antenna Designation:	Please refer to the Note 3.														
AntennaGain (dBi):	2.13 dBi														
Duty Cycle:	>98%														
Channel List	Please refer to the Note 2.														
Adapter	Input: AC 100-240V 50/60Hz 0.7A Output: DC 12V@1.5A														
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.

Operation Frequency of channel			
802.11b/g/n(20MHz)		Channel List for 802.11n(40MHz)	
Channel	Frequency	Channel	Frequency
01	2412	03	2422
02	2417	04	2427
03	2422	05	2432
04	2427	06	2437
05	2432	07	2442
06	2437	08	2447
07	2442	09	2452
08	2447		
09	2452		
10	2457		
11	2462		

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

2.4GHz Test Frequency:

For 802.11b/g/n (HT20)		For 802.11n (HT40)	
Channel	Freq.(MHz)	Channel	Freq.(MHz)
01	2412	03	2422
06	2437	06	2437
11	2462	09	2452

3.

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	HIKVISION	DS-K1T201AMF	Intergral	N/A	2.13	WLAN Antenna



2.2 DESCRIPTION OF THE TEST MODES

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 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH6	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0
Mode 10	TX IEEE 802.11n HT40 CH3	MCS 0
Mode 11	TX IEEE 802.11n HT40 CH6	MCS 0
Mode 12	TX IEEE 802.11n HT40 CH9	MCS 0

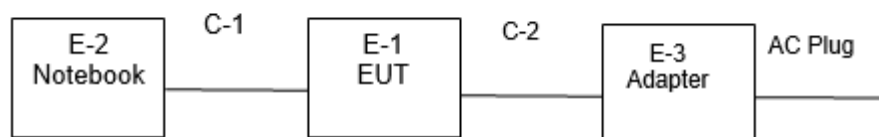
Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
- (2) 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, and the worst case of 120V /60Hz is shown in the report.



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation Test Set



2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-3	Adapter	HOIOTO	ADS-26FSG-12 12018EPG	N/A	N/A
C-2	DC Cable	N/A	150cm	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-2	Notebook	DELL	VOSTRO.3800	N/A	N/A
C-1	USB Cable	N/A	110cm	N/A	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.5 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	2019.07.29	2020.07.28
Signal Analyzer	Agilent	N9020A	MY51110105	2020.03.05	2021.03.04
Active loop Antenna	ZHINAN	ZN30900C	16035	2018.03.11	2021.03.10
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.01
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2018.10.19	2021.10.18
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2021.03.10
Pre-Amplifier(0.1M-3G Hz)	EM	EM330	060665	2019.10.09	2020.10.08
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK201808090 1	2019.10.12	2020.10.11
Pre-Amplifier (18G-40G)	SKET	LNPA_1840-50	SK201810180 1	2019.10.22	2020.10.21
Temperature & Humidity	HH660	Mieo	N/A	2019.10.12	2020.10.11
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	2019.07.29	2020.07.28
LISN	R&S	ENV216	101242	2019.10.09	2020.10.08
LISN	EMCO	3810/2NM	23625	2019.10.09	2020.10.08
Temperature & Humidity	HH660	Mieo	N/A	2019.10.12	2020.10.11
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 CE)			



3. CONDUCTED EMISSION MEASUREMENT

3.1. POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

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.

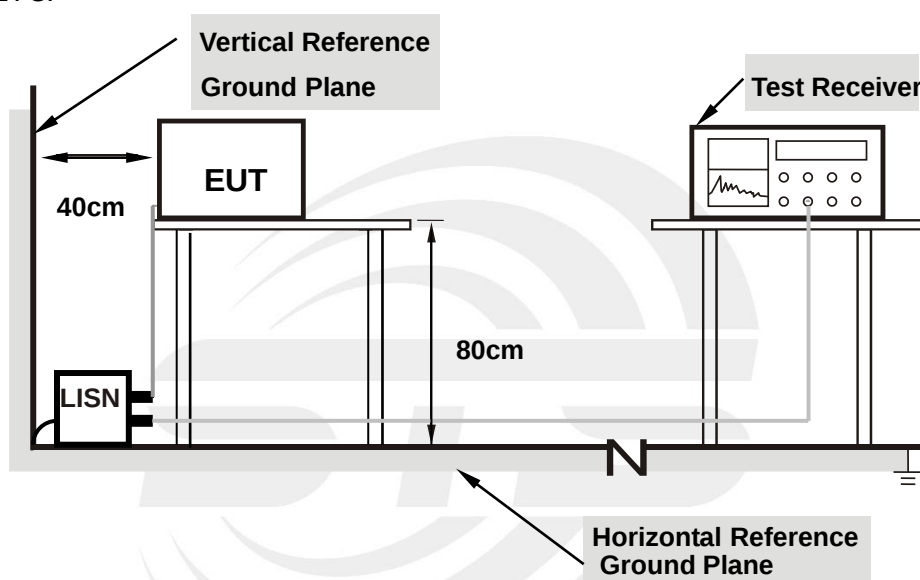
The following table is the setting of the receiver

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

3.2 TEST PROCEDURE

- The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the 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 at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 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 from other units and other metal planes

3.4 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.



3.5 TEST RESULT

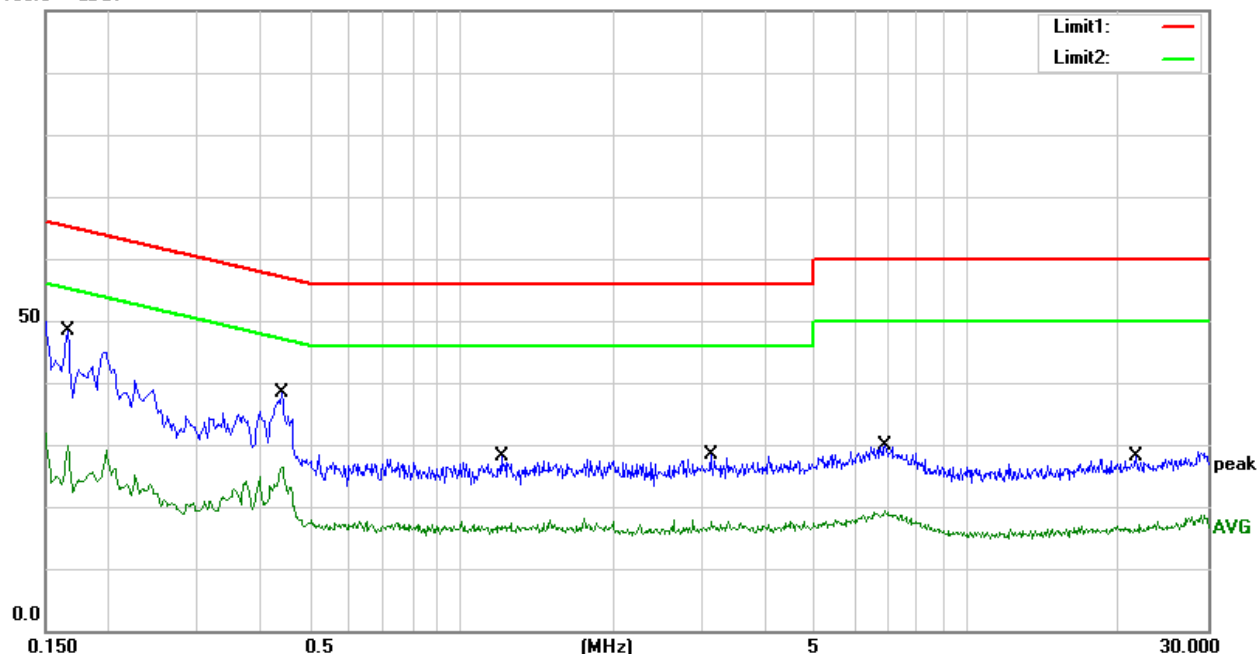
Temperature:	23.2(C)	Relative Humidity:	54%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 1		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1660	28.26	20.23	48.49	65.16	-16.67	QP
2	0.1660	8.01	20.23	28.24	55.16	-26.92	AVG
3	0.4420	17.81	20.49	38.30	57.02	-18.72	QP
4	0.4420	5.90	20.49	26.39	47.02	-20.63	AVG
5	1.1980	7.95	20.14	28.09	56.00	-27.91	QP
6	1.1980	-3.73	20.14	16.41	46.00	-29.59	AVG
7	3.1220	8.44	19.97	28.41	56.00	-27.59	QP
8	3.1220	-2.44	19.97	17.53	46.00	-28.47	AVG
9	6.8860	9.96	19.91	29.87	60.00	-30.13	QP
10	6.8860	-1.11	19.91	18.80	50.00	-31.20	AVG
11	21.6180	7.52	20.59	28.11	60.00	-31.89	QP
12	21.6180	-4.12	20.59	16.47	50.00	-33.53	AVG

Remark:

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

100.0 dBuV



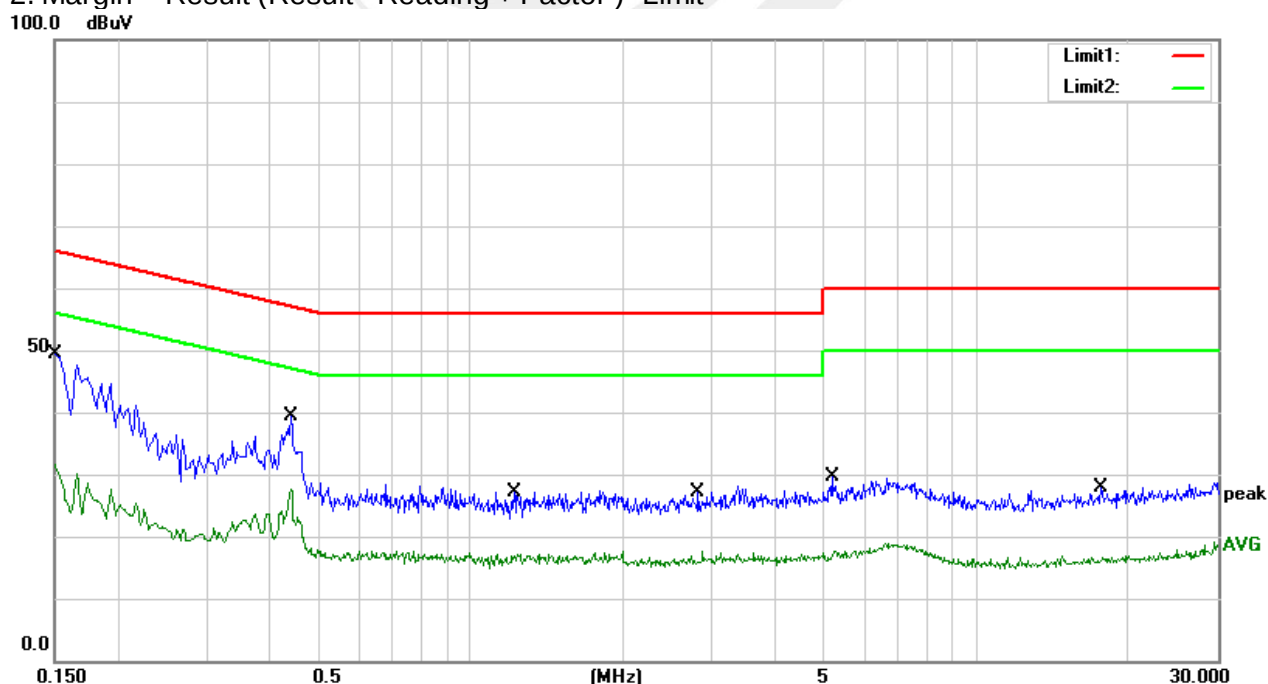


Temperature:	23.2(C)	Relative Humidity:	54%RH
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 1		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	29.20	20.23	49.43	66.00	-16.57	QP
2	0.1500	11.34	20.23	31.57	56.00	-24.43	AVG
3	0.4420	18.84	20.49	39.33	57.02	-17.69	QP
4	0.4420	2.22	20.49	22.71	47.02	-24.31	AVG
5	1.2220	7.10	20.14	27.24	56.00	-28.76	QP
6	1.2220	-3.33	20.14	16.81	46.00	-29.19	AVG
7	2.8220	7.03	20.00	27.03	56.00	-28.97	QP
8	2.8220	-4.13	20.00	15.87	46.00	-30.13	AVG
9	5.1900	9.60	19.94	29.54	60.00	-30.46	QP
10	5.1900	-2.37	19.94	17.57	50.00	-32.43	AVG
11	17.5900	7.46	20.44	27.90	60.00	-32.10	QP
12	17.5900	-4.20	20.44	16.24	50.00	-33.76	AVG

Remark:

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





4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a), RSS-Gen Issue 5, Amendment 1, March 2019 and RSS-247 Issue 2, February 2017 (5.5) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

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 (1000MHz-25GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (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			



For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz); 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 KHz / 300 KHz

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

For Restricted band

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	Lower Band Edge: 2310 to 2430 MHz Upper Band Edge: 2445 to 2500 MHz
RB / VB	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)



Receiver Parameter	Setting
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

4.2 TEST PROCEDURE

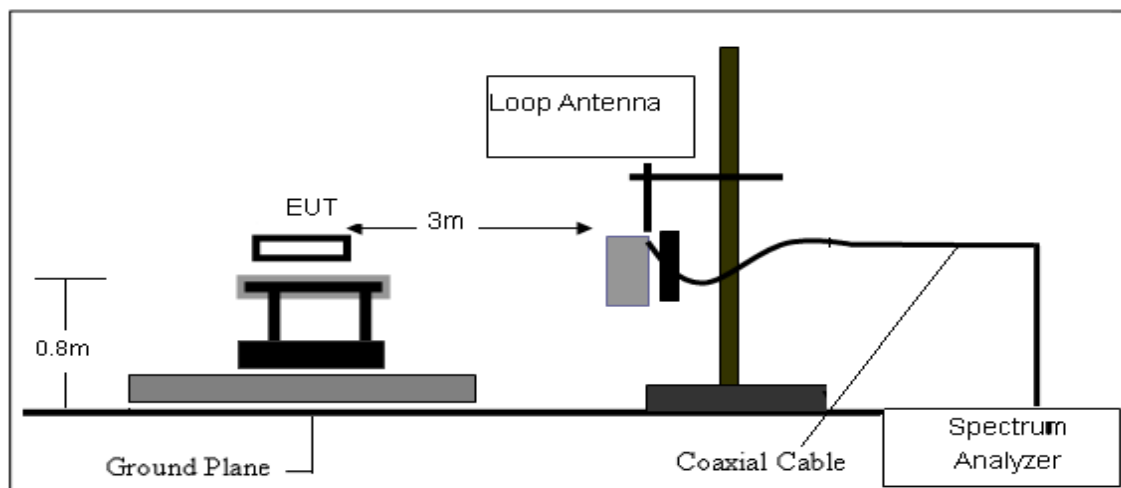
- The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position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

Note:

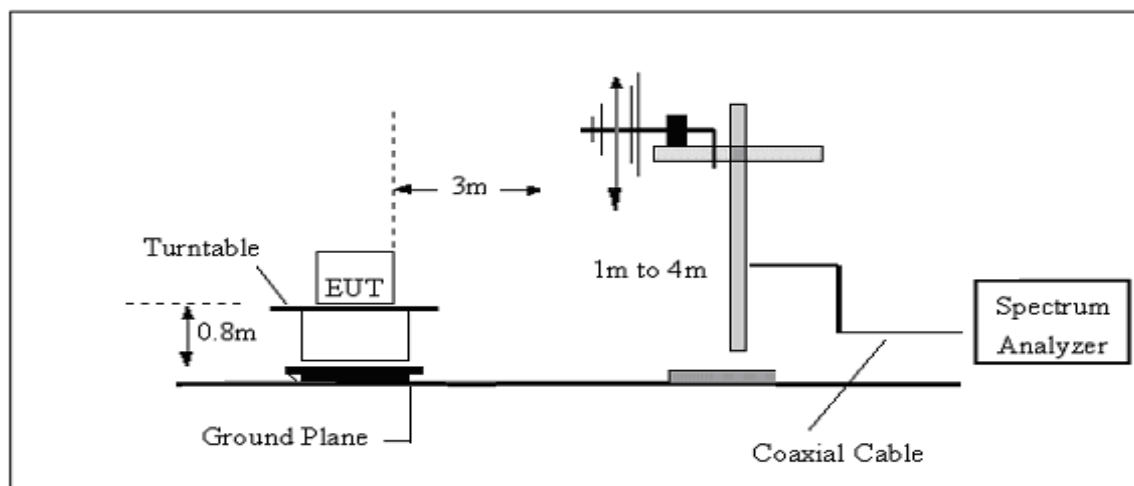
Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported.

4.3 TEST SETUP

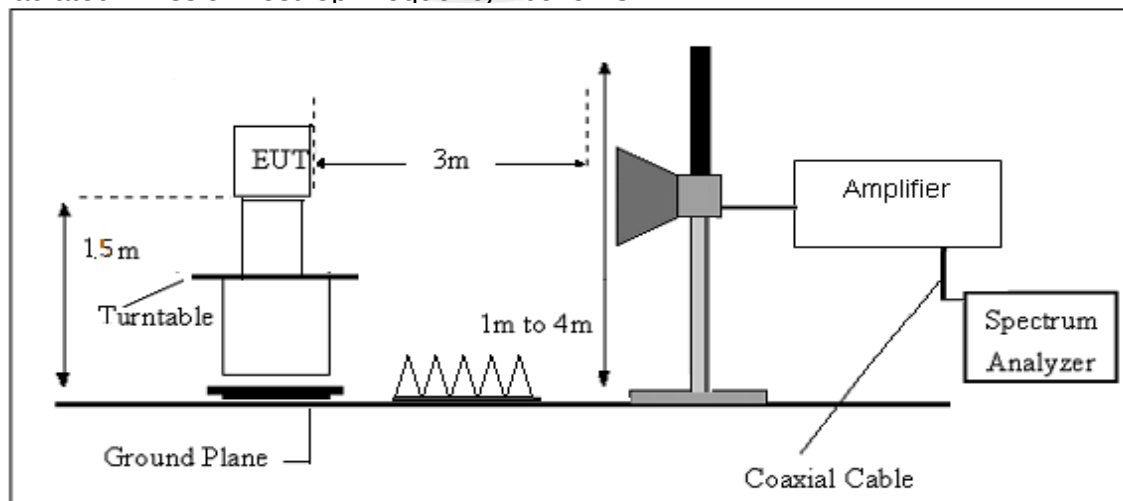
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



4.4 EUT OPERATING CONDITIONS

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



4.5 FIELD STRENGTH CALCULATION

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

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

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

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

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





4.6 TEST RESULT

9KHz-30MHz

Temperature:	23.7(C)	Relative Humidity:	58%RH
Test Voltage:	AC 120V/60Hz	Polarization:	--
Test Mode:	TX Mode		

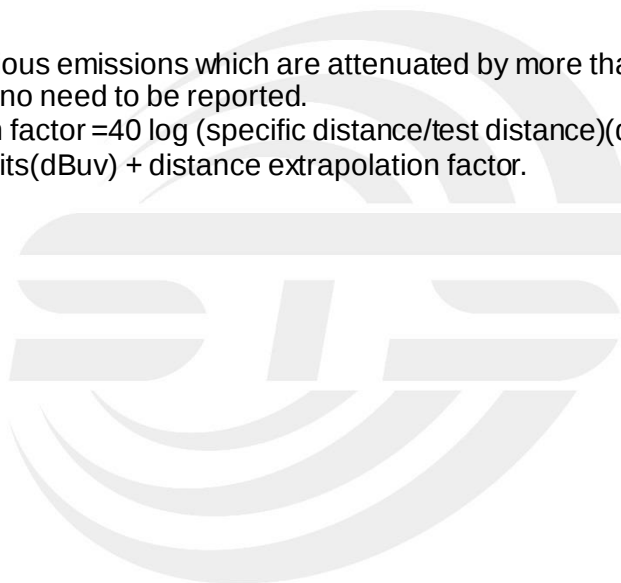
Freq.	Reading	Limit	Margin	State	Test Result
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	
--	--	--	--	--	PASS
--	--	--	--	--	PASS

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

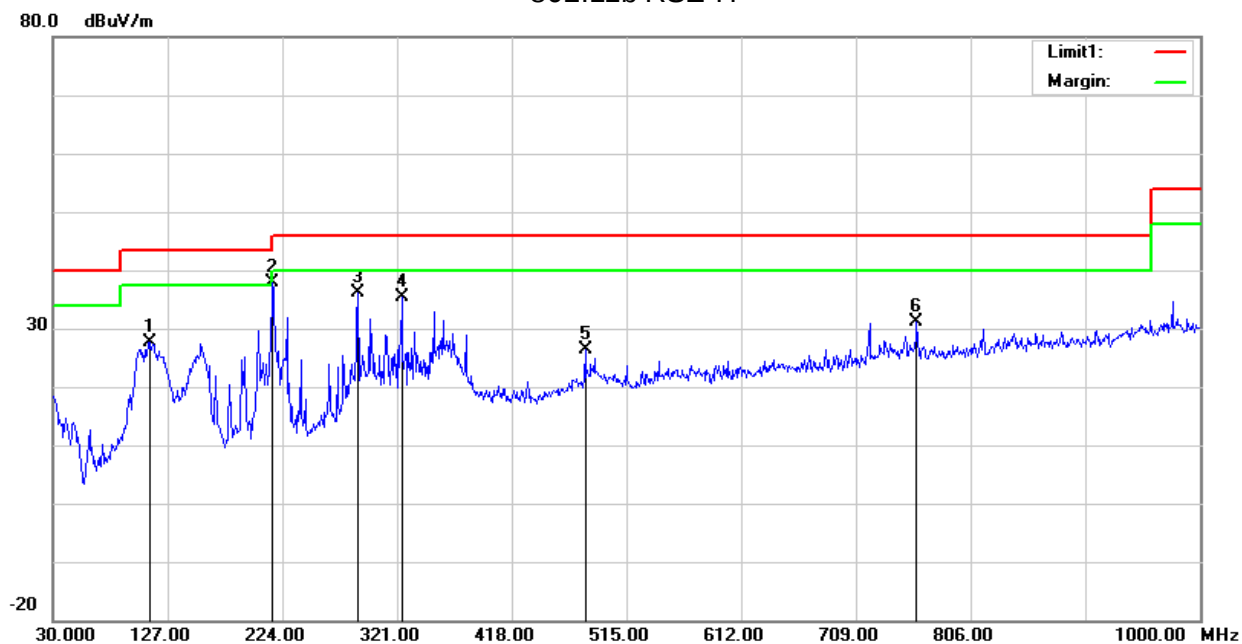
Limit line = specific limits(dBuV) + distance extrapolation factor.





(30MHz - 1000MHz)

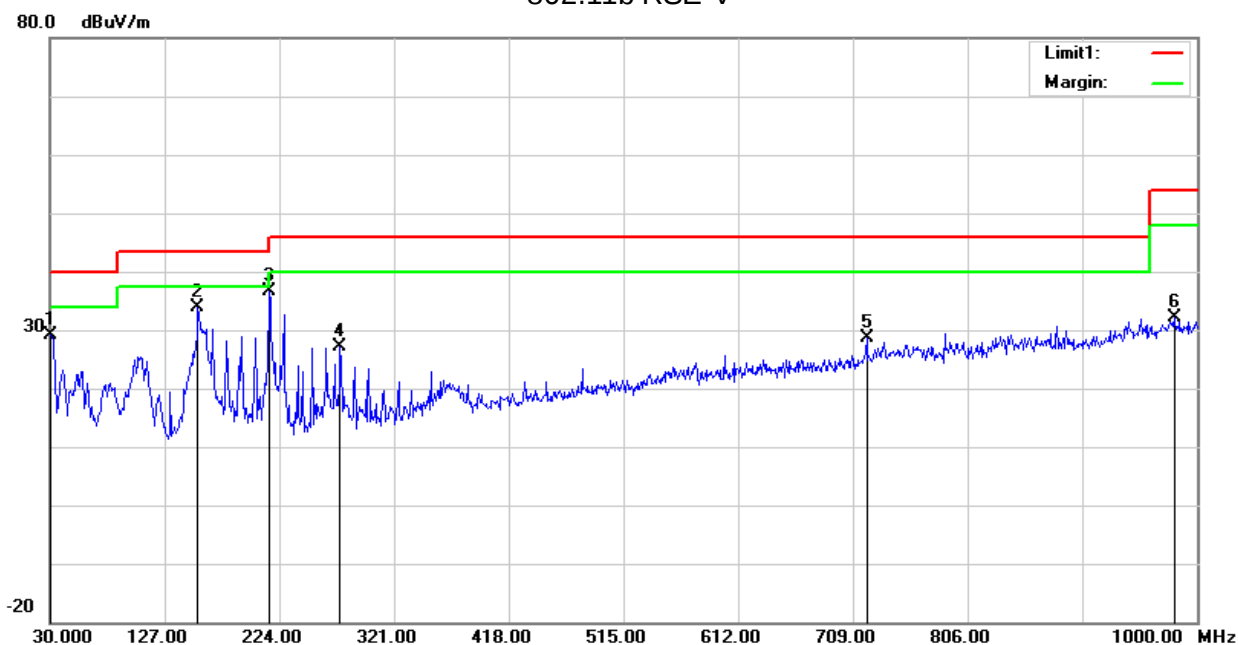
802.11b RSE-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	112.4500	46.50	-18.82	27.68	43.50	-15.82	QP
2	215.2700	58.15	-20.17	37.98	43.50	-5.52	QP
3	288.0200	51.32	-15.26	36.06	46.00	-9.94	QP
4	324.8800	49.35	-13.85	35.50	46.00	-10.50	QP
5	480.0800	35.00	-8.65	26.35	46.00	-19.65	QP
6	760.4100	33.40	-2.18	31.22	46.00	-14.78	QP



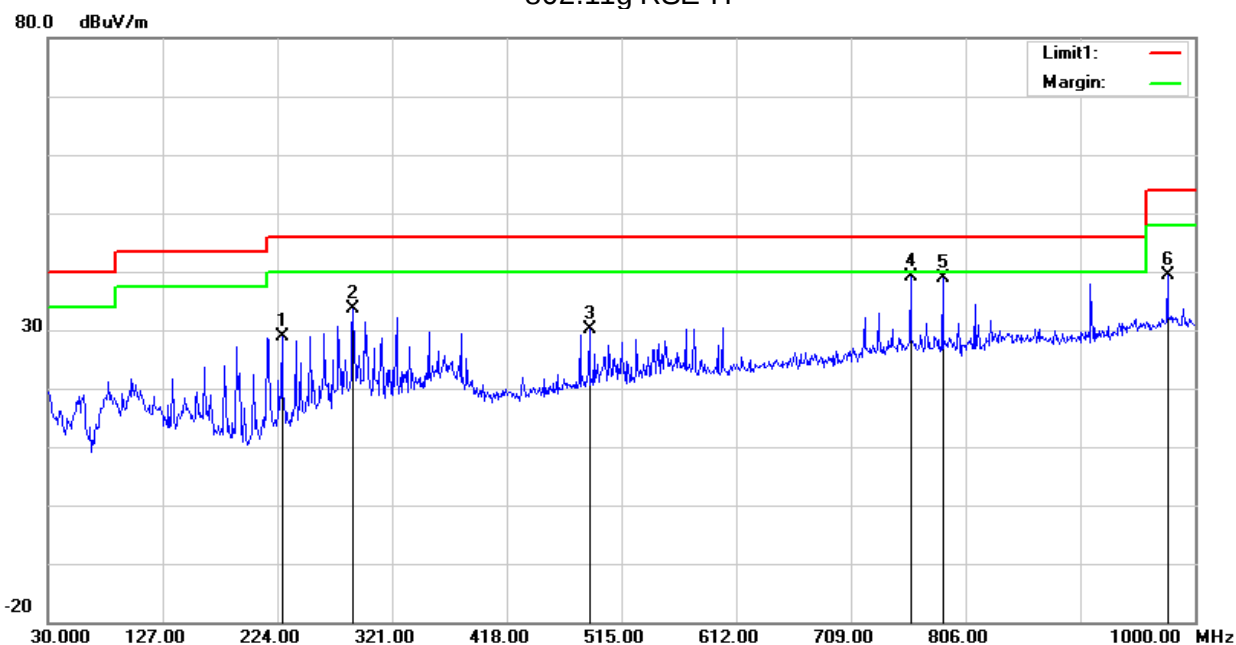
802.11b RSE-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.9700	42.40	-13.35	29.05	40.00	-10.95	QP
2	155.1300	52.61	-18.63	33.98	43.50	-9.52	QP
3	215.2700	56.71	-20.17	36.54	43.50	-6.96	QP
4	275.4100	42.60	-15.46	27.14	46.00	-18.86	QP
5	720.6400	31.87	-3.20	28.67	46.00	-17.33	QP
6	980.6000	29.41	2.63	32.04	54.00	-21.96	QP



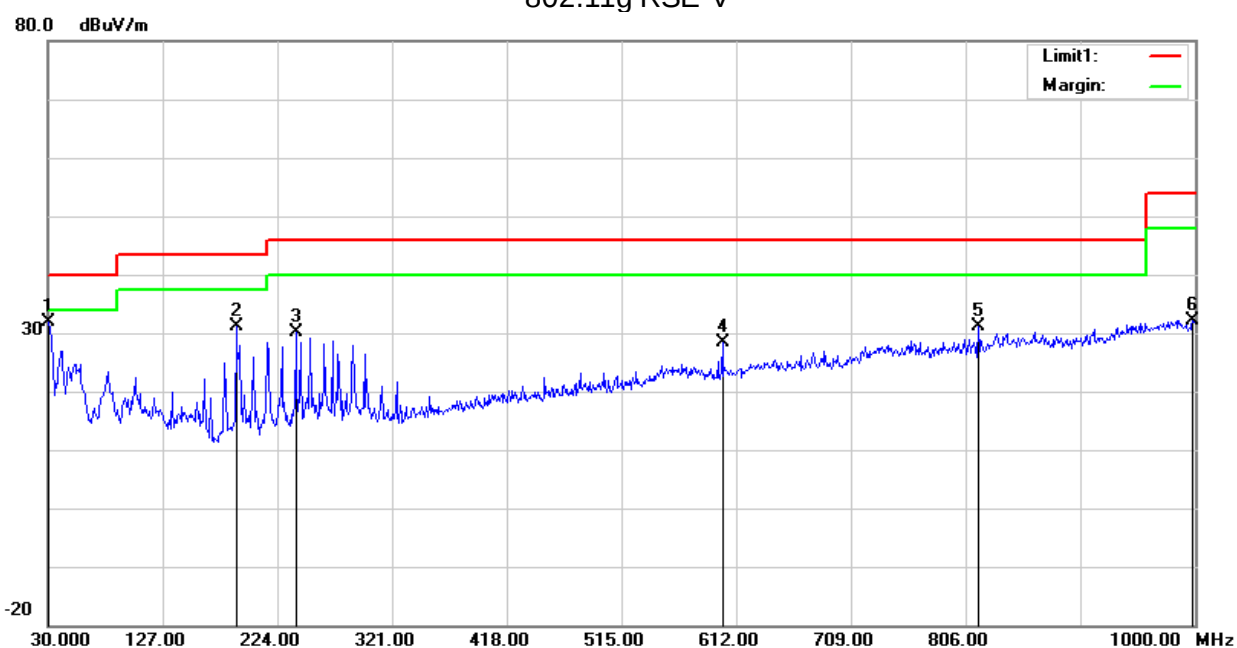
802.11g RSE-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	227.8800	48.13	-19.20	28.93	46.00	-17.07	QP
2	288.0200	48.81	-15.26	33.55	46.00	-12.45	QP
3	487.8400	38.55	-8.32	30.23	46.00	-15.77	QP
4	759.4400	41.36	-2.16	39.20	46.00	-6.80	QP
5	786.6000	40.84	-2.05	38.79	46.00	-7.21	QP
6	976.7200	36.87	2.45	39.32	54.00	-14.68	QP



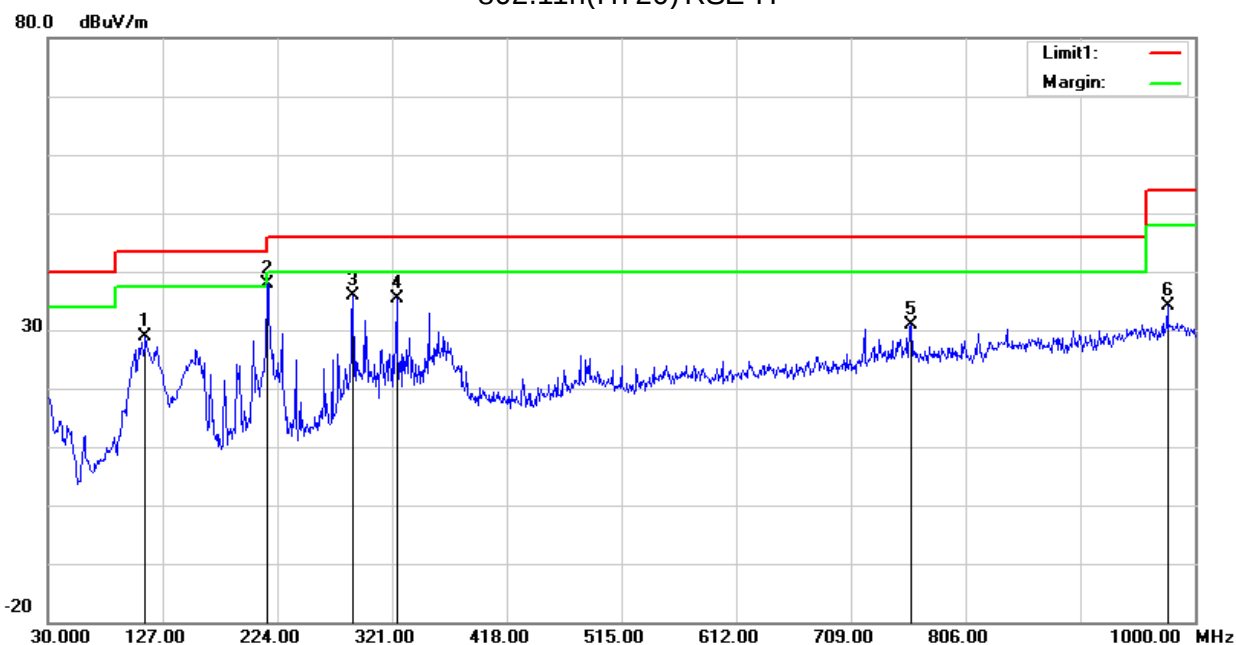
802.11g RSE-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.9700	45.30	-13.35	31.95	40.00	-8.05	QP
2	189.0800	51.96	-20.87	31.09	43.50	-12.41	QP
3	239.5200	48.28	-18.10	30.18	46.00	-15.82	QP
4	600.3600	34.21	-5.84	28.37	46.00	-17.63	QP
5	816.6700	33.22	-1.97	31.25	46.00	-14.75	QP
6	998.0600	30.18	2.04	32.22	54.00	-21.78	QP



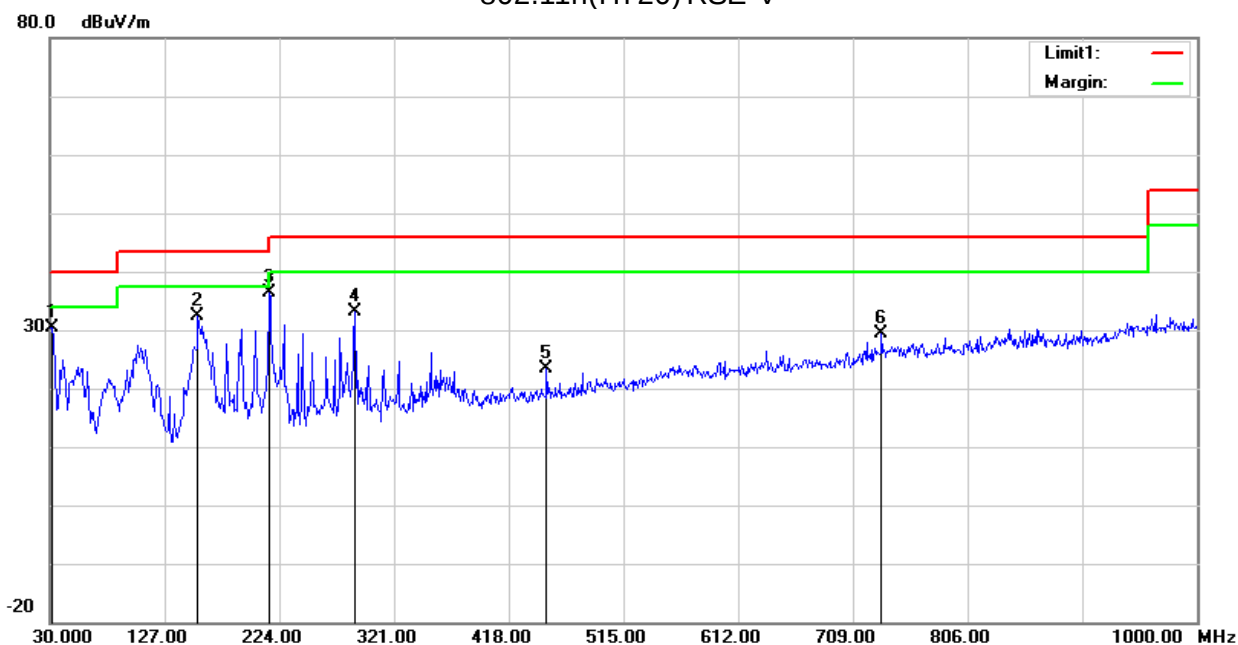
802.11n(HT20) RSE-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	112.4500	47.79	-18.82	28.97	43.50	-14.53	QP
2	215.2700	58.14	-20.17	37.97	43.50	-5.53	QP
3	288.0200	51.08	-15.26	35.82	46.00	-10.18	QP
4	324.8800	49.11	-13.85	35.26	46.00	-10.74	QP
5	760.4100	33.05	-2.18	30.87	46.00	-15.13	QP
6	976.7200	31.63	2.45	34.08	54.00	-19.92	QP



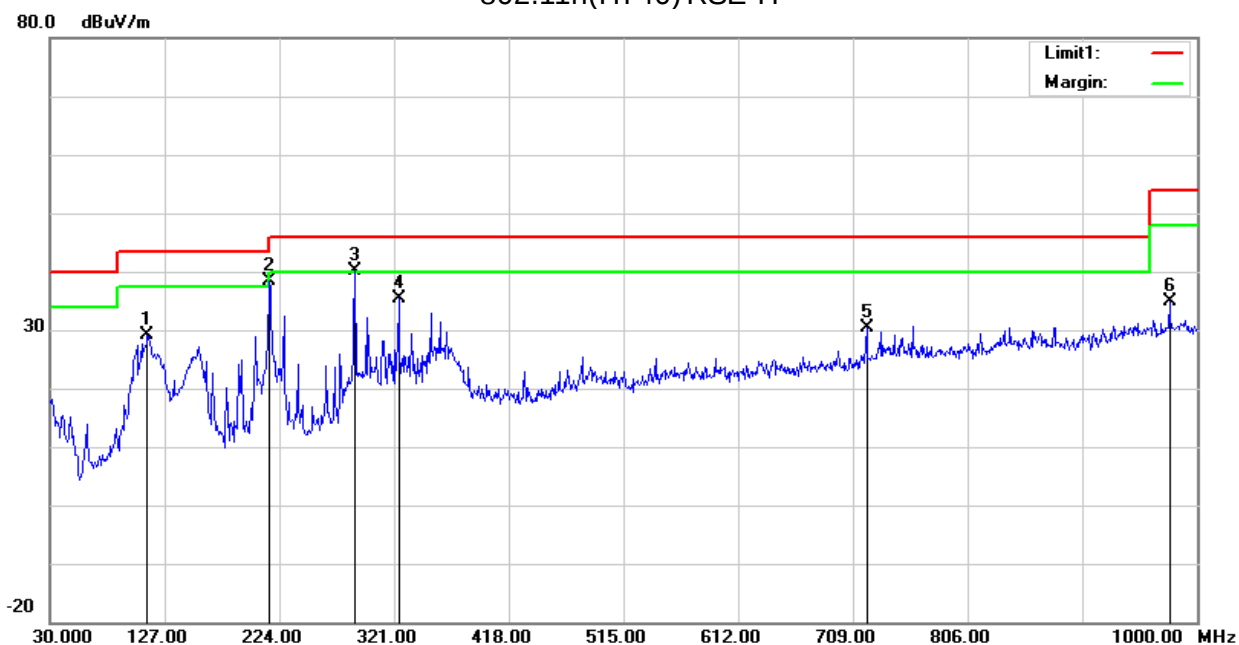
802.11n(HT20) RSE-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	31.9400	44.34	-13.86	30.48	40.00	-9.52	QP
2	155.1300	51.10	-18.63	32.47	43.50	-11.03	QP
3	215.2700	56.59	-20.17	36.42	43.50	-7.08	QP
4	288.0200	48.31	-15.26	33.05	46.00	-12.95	QP
5	450.0100	33.13	-9.67	23.46	46.00	-22.54	QP
6	733.2500	31.64	-2.35	29.29	46.00	-16.71	QP



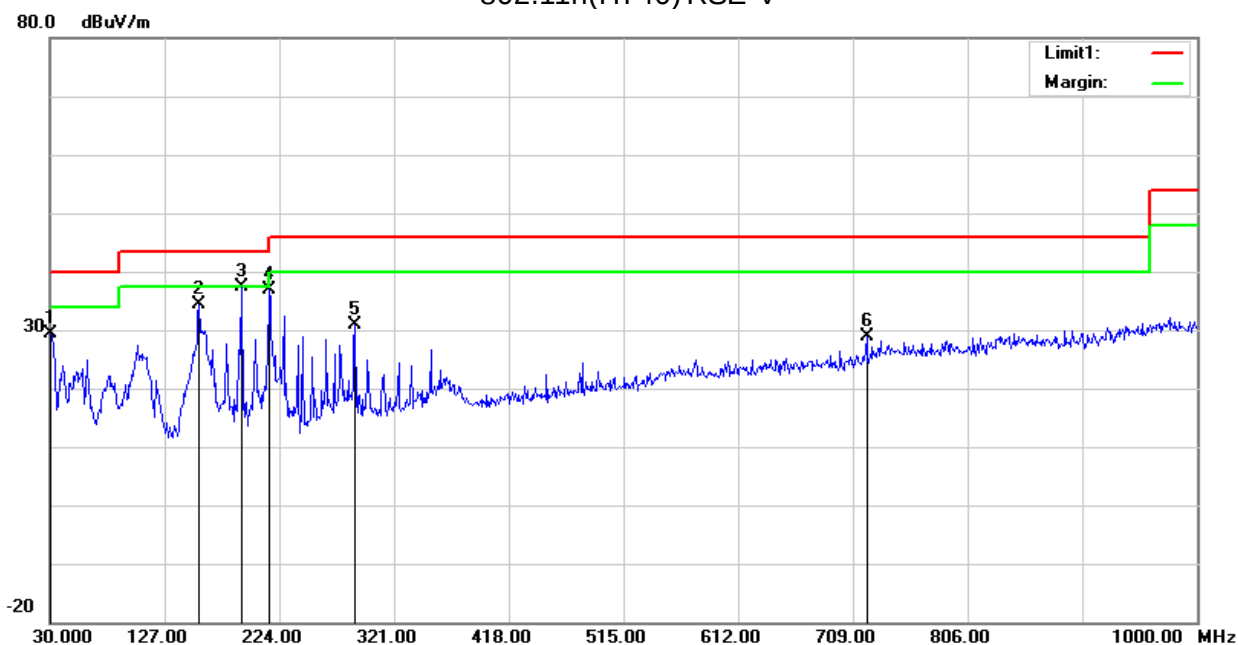
802.11n(HT40) RSE-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	112.4500	47.93	-18.82	29.11	43.50	-14.39	QP
2	215.2700	58.50	-20.17	38.33	43.50	-5.17	QP
3	288.0200	55.32	-15.26	40.06	46.00	-5.94	QP
4	324.8800	49.13	-13.85	35.28	46.00	-10.72	QP
5	720.6400	33.52	-3.20	30.32	46.00	-15.68	QP
6	976.7200	32.50	2.45	34.95	54.00	-19.05	QP



802.11n(HT40) RSE-V



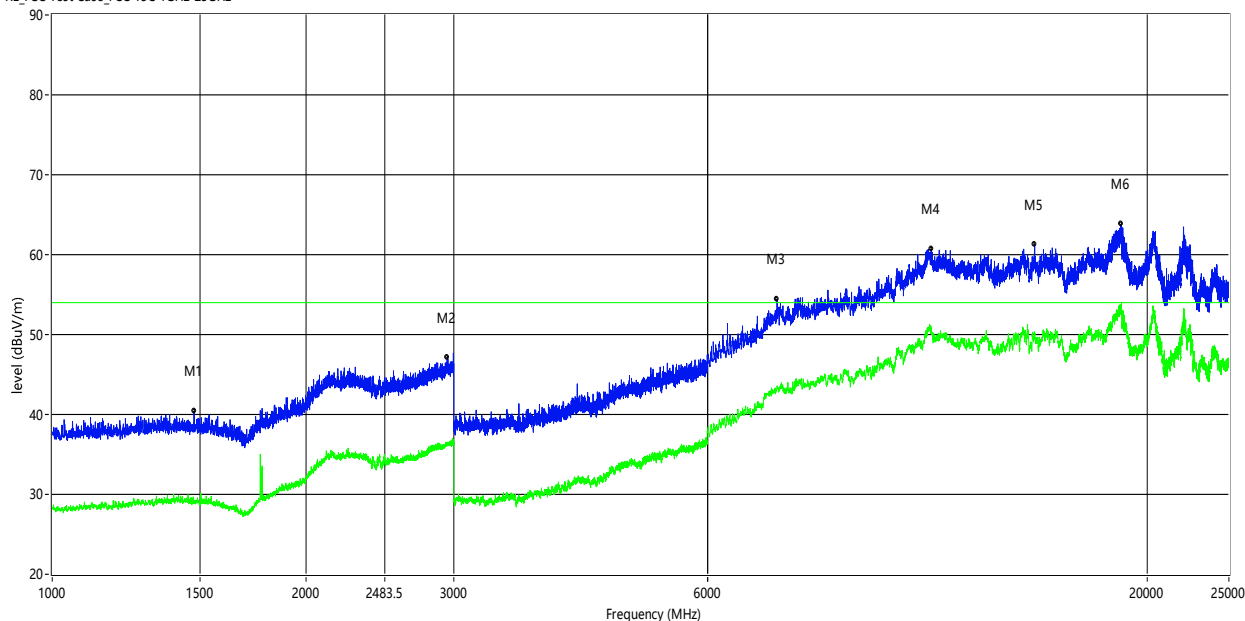
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.9700	42.76	-13.35	29.41	40.00	-10.59	QP
2	156.1000	53.11	-18.66	34.45	43.50	-9.05	QP
3	191.9900	58.33	-21.04	37.29	43.50	-6.21	QP
4	215.2700	57.01	-20.17	36.84	43.50	-6.66	QP
5	288.0200	46.12	-15.26	30.86	46.00	-15.14	QP
6	720.6400	32.13	-3.20	28.93	46.00	-17.07	QP



(Above 1000MHz) Spurious emission Requirements

802.11 b
RSE-L-H

RE_FCC Test Case_FCC 15C 1GHz-25GHz

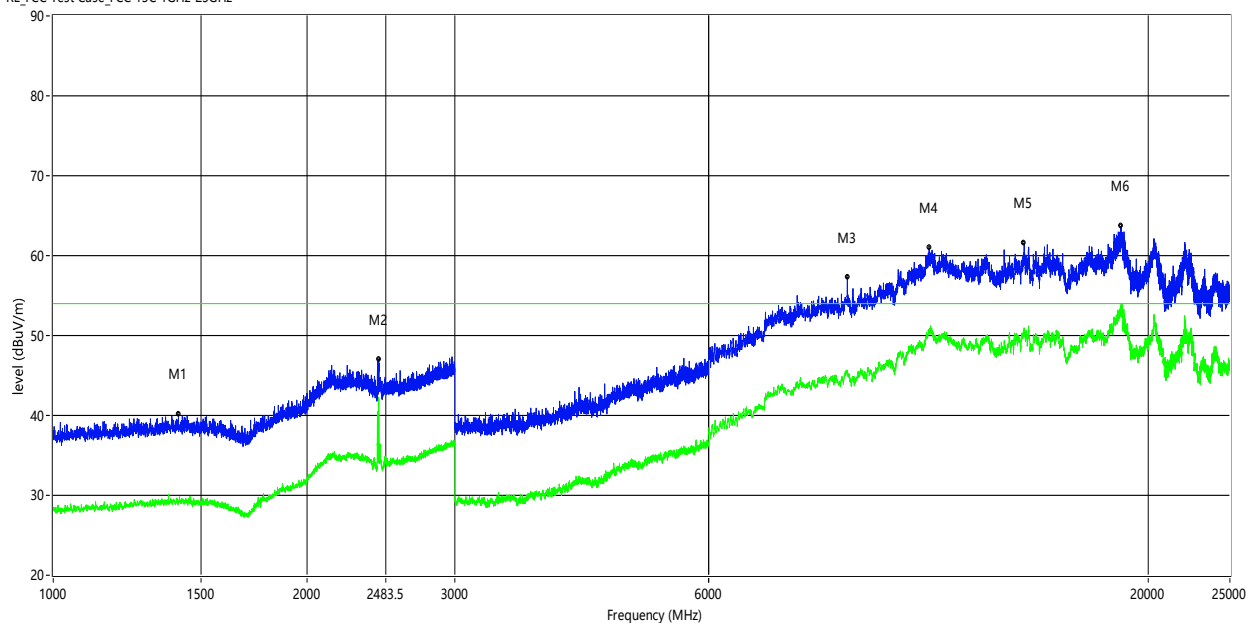


Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1474	40.93	29.57	-0.57	40.36	29.00	74.00	54.00	-33.64	-25.00	-25.00	Horizontal
2945.5	41.23	30.36	5.87	47.10	36.23	74.00	54.00	-26.90	-17.77	-17.77	Horizontal
7263	51.29	40.46	3.13	54.42	43.59	74.00	54.00	-19.58	-10.41	-10.41	Horizontal
11070	50.89	40.42	9.84	60.73	50.26	74.00	54.00	-13.27	-3.74	-3.74	Horizontal
14697	49.99	38.72	11.26	61.25	49.98	74.00	54.00	-12.75	-4.02	-4.02	Horizontal
18628.25	53.16	42.18	10.64	63.80	52.82	74.00	54.00	-10.20	-1.18	-1.18	Horizontal



RSE-L-V

RE_FCC Test Case_FCC 15C 1GHz-25GHz

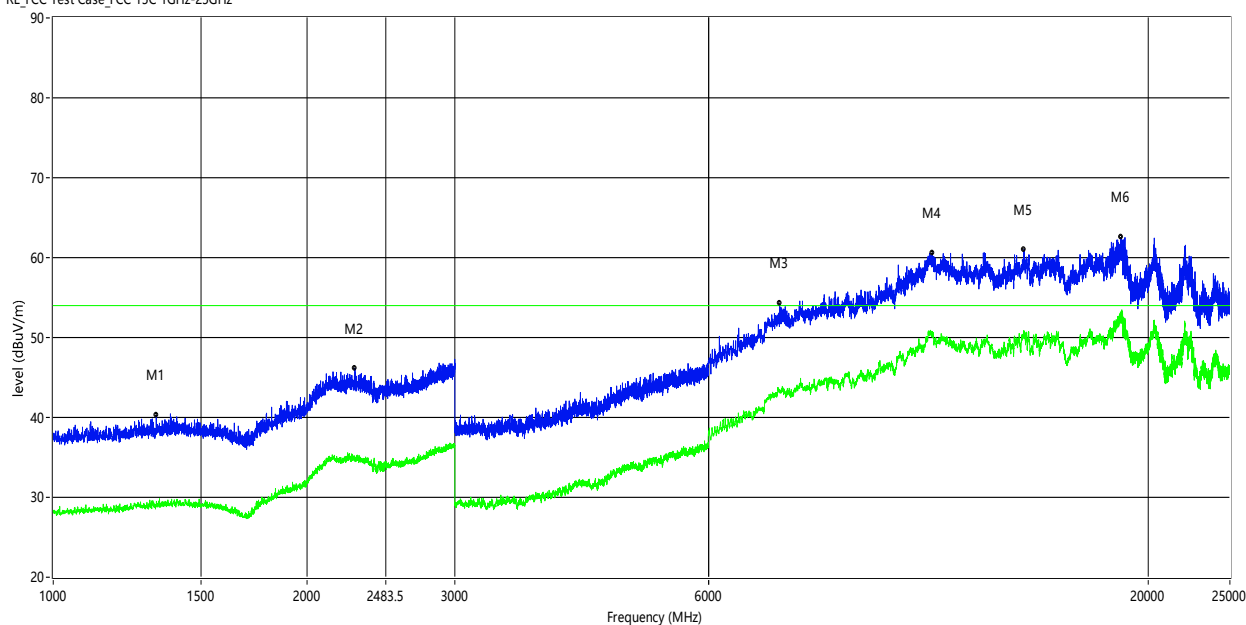


Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1408.5	40.73	29.85	-0.65	40.08	29.20	74.00	54.00	-33.92	-24.80	-24.80	Vertical
2436.5	43.02	38.26	4.04	47.06	42.30	74.00	54.00	-26.94	-11.70	-11.70	Vertical
8778	52.38	40.28	4.92	57.30	45.20	74.00	54.00	-16.70	-8.80	-8.80	Vertical
10980	50.88	40.49	10.07	60.95	50.56	74.00	54.00	-13.05	-3.44	-3.44	Vertical
14238	50.29	39.46	11.31	61.60	50.77	74.00	54.00	-12.40	-3.23	-3.23	Vertical
18560	53.14	42.33	10.55	63.69	52.88	74.00	54.00	-10.31	-1.12	-1.12	Vertical



RSE-M-H

RE_FCC Test Case_FCC 15C 1GHz-25GHz

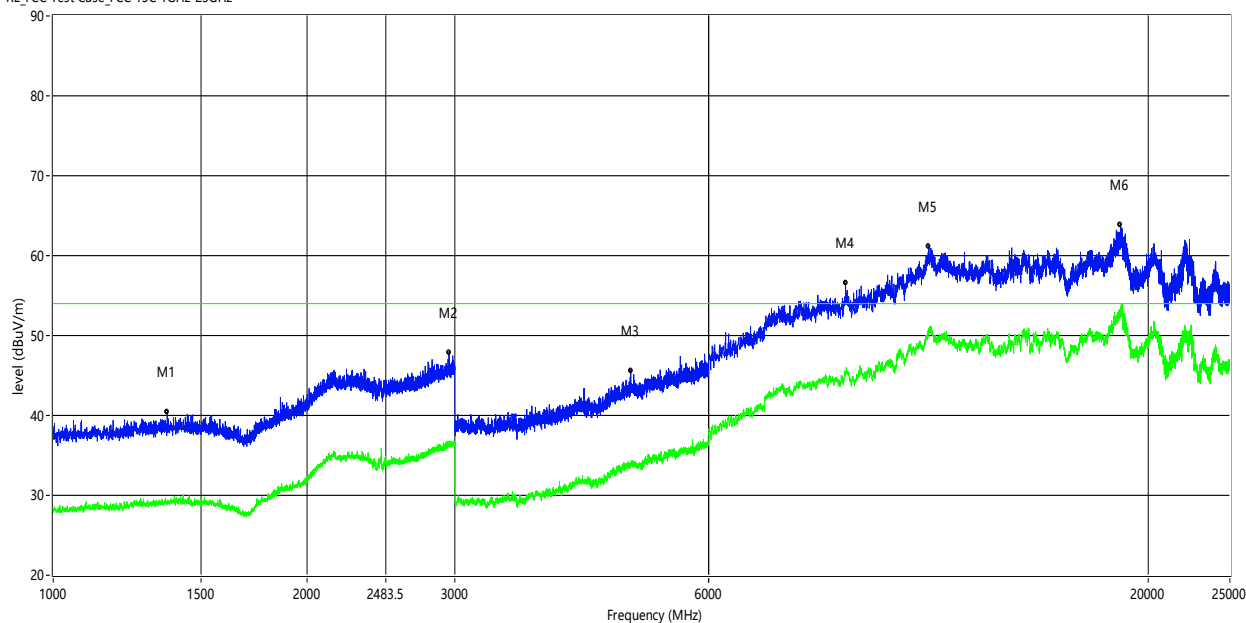


Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1325.5	41.15	30.02	-0.86	40.29	29.16	74.00	54.00	-33.71	-24.84	-24.84	Horizontal
2283	41.58	30.03	4.6	46.18	34.63	74.00	54.00	-27.82	-19.37	-19.37	Horizontal
7296	50.84	39.79	3.38	54.22	43.17	74.00	54.00	-19.78	-10.83	-10.83	Horizontal
11076	50.79	40.66	9.81	60.60	50.47	74.00	54.00	-13.40	-3.53	-3.53	Horizontal
14238	49.76	39.31	11.31	61.07	50.62	74.00	54.00	-12.93	-3.38	-3.38	Horizontal
18558.251	51.96	41.96	10.55	62.51	52.51	74.00	54.00	-11.49	-1.49	-1.49	Horizontal



RSE-M-V

RE_FCC Test Case_FCC 15C 1GHz-25GHz

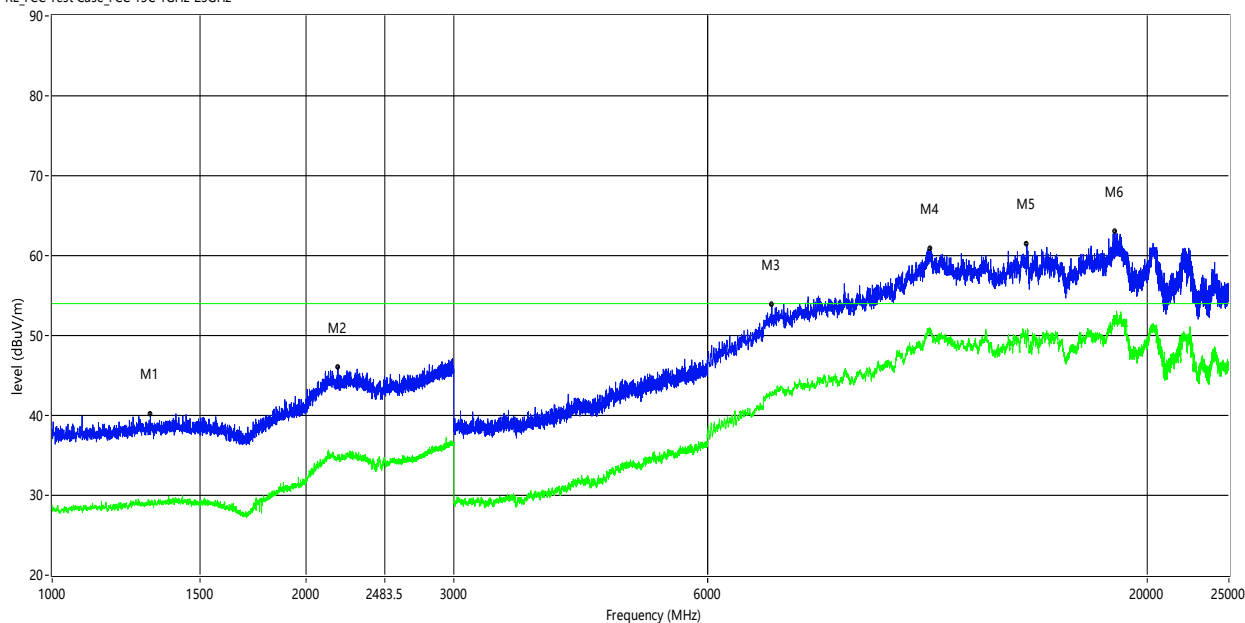


Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1366	41.14	29.68	-0.75	40.39	28.93	74.00	54.00	-33.61	-25.07	-25.07	Vertical
2953	41.93	30.92	5.91	47.84	36.83	74.00	54.00	-26.16	-17.17	-17.17	Vertical
4854.75	52.29	40.69	-6.66	45.63	34.03	74.00	54.00	-28.37	-19.97	-19.97	Vertical
8736	51.52	39.80	5.05	56.57	44.85	74.00	54.00	-17.43	-9.15	-9.15	Vertical
10974	51.12	40.45	10.02	61.14	50.47	74.00	54.00	-12.86	-3.53	-3.53	Vertical
18528.5	53.39	42.39	10.51	63.90	52.90	74.00	54.00	-10.10	-1.10	-1.10	Vertical



RSE-H-H

RE_FCC Test Case_FCC 15C 1GHz-25GHz

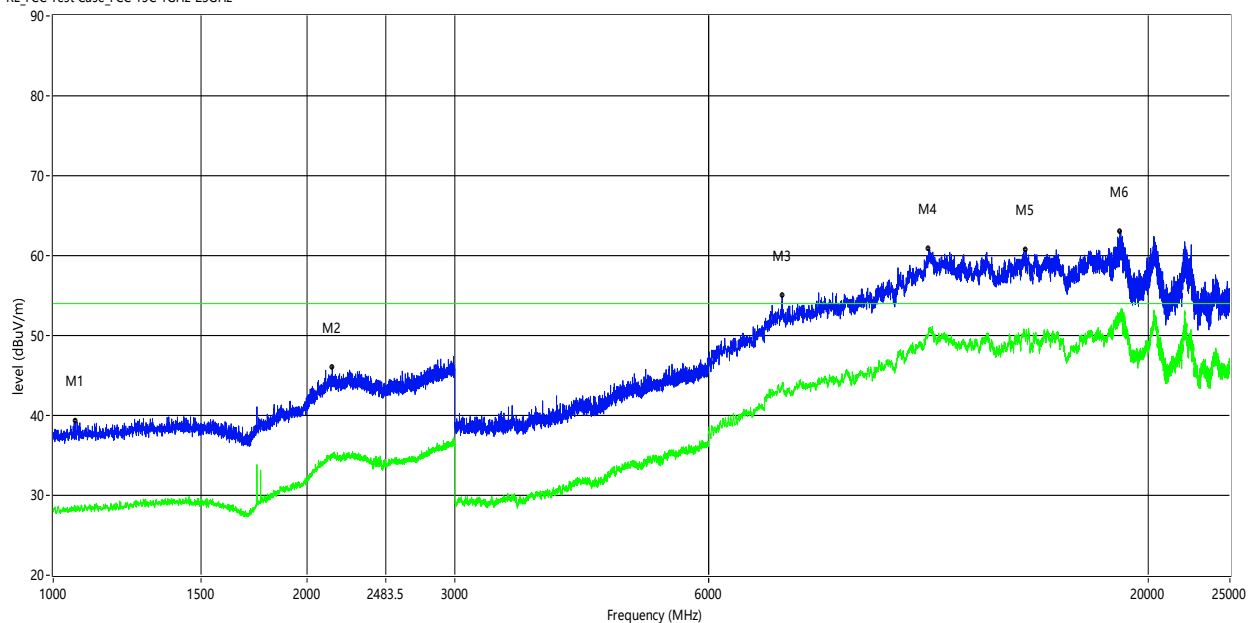


Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1308	41.08	29.70	-0.91	40.17	28.79	74.00	54.00	-33.83	-25.21	-25.21	Horizontal
2185	41.79	30.21	4.26	46.05	34.47	74.00	54.00	-27.95	-19.53	-19.53	Horizontal
7161	51.14	39.83	2.7	53.84	42.53	74.00	54.00	-20.16	-11.47	-11.47	Horizontal
11055	50.99	40.97	9.92	60.91	50.89	74.00	54.00	-13.09	-3.11	-3.11	Horizontal
14388	50.08	38.57	11.35	61.43	49.92	74.00	54.00	-12.57	-4.08	-4.08	Horizontal
18304.5	51.97	40.96	10.97	62.94	51.93	74.00	54.00	-11.06	-2.07	-2.07	Horizontal



RSE-H-V

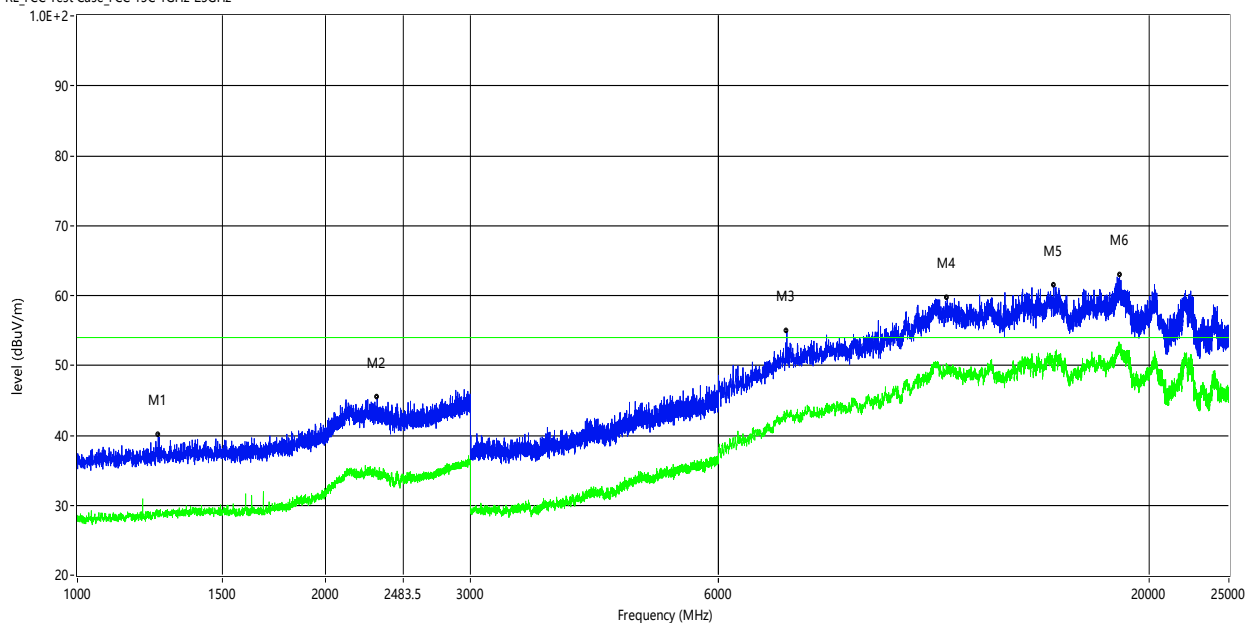
RE_FCC Test Case_FCC 15C 1GHz-25GHz



Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1063.5	41.00	29.72	-1.74	39.26	27.98	74.00	54.00	-34.74	-26.02	-26.02	Vertical
2145	41.52	30.38	4.55	46.07	34.93	74.00	54.00	-27.93	-19.07	-19.07	Vertical
7344	51.74	40.31	3.22	54.96	43.53	74.00	54.00	-19.04	-10.47	-10.47	Vertical
10971	50.79	40.53	10	60.79	50.53	74.00	54.00	-13.21	-3.47	-3.47	Vertical
14310	49.79	39.05	10.88	60.67	49.93	74.00	54.00	-13.33	-4.07	-4.07	Vertical
18509.251	52.52	41.76	10.49	63.01	52.25	74.00	54.00	-10.99	-1.75	-1.75	Vertical

802.11g
RSE-L-H

RE_FCC Test Case_FCC 15C 1GHz-25GHz



Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1253	41.02	29.80	-0.91	40.11	28.89	74.00	54.00	-33.89	-25.11	-25.11	Horizontal
2311	40.91	30.12	4.54	45.45	34.66	74.00	54.00	-28.55	-19.34	-19.34	Horizontal
7266	51.79	40.49	3.15	54.94	43.64	74.00	54.00	-19.06	-10.36	-10.36	Horizontal
11373	49.97	40.43	9.69	59.66	50.12	74.00	54.00	-14.34	-3.88	-3.88	Horizontal
15327	51.19	40.69	10.24	61.43	50.93	74.00	54.00	-12.57	-3.07	-3.07	Horizontal
18416.501	52.21	42.33	10.69	62.90	53.02	74.00	54.00	-11.10	-0.98	-0.98	Horizontal



RSE-L-V

RE_FCC Test Case_FCC 15C 1GHz-25GHz

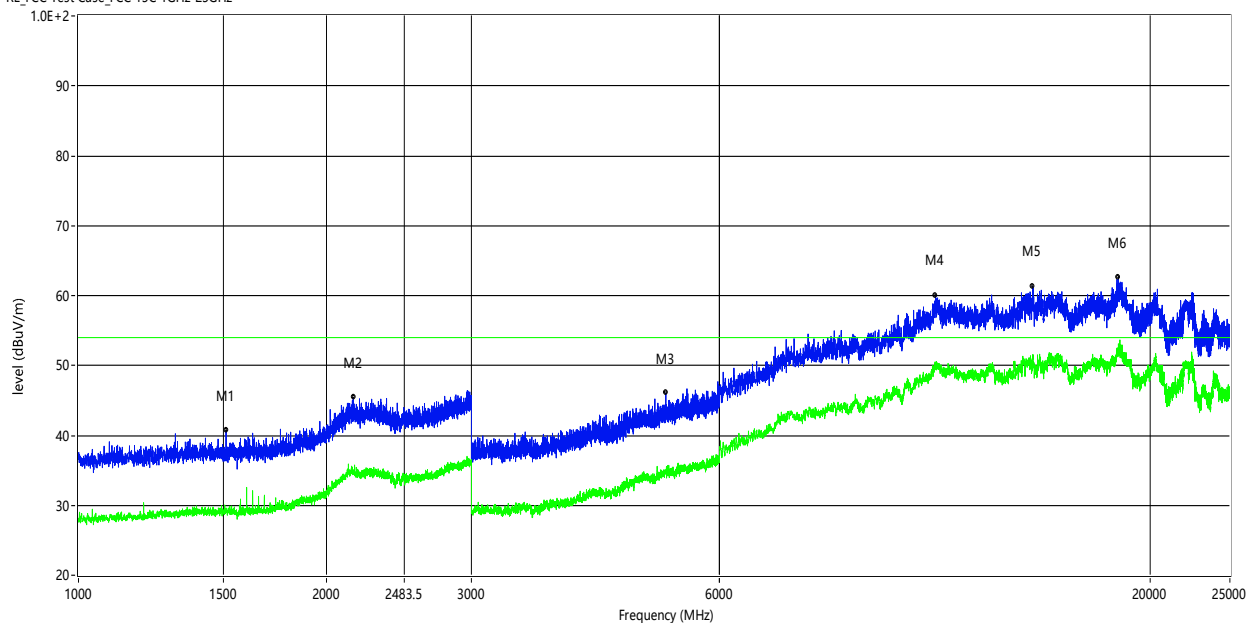


Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1599	40.78	30.04	-0.49	40.29	29.55	74.00	54.00	-33.71	-24.45	-24.45	Vertical
2245.5	40.97	30.65	4.59	45.56	35.24	74.00	54.00	-28.44	-18.76	-18.76	Vertical
4854.75	52.58	41.29	-6.66	45.92	34.63	74.00	54.00	-28.08	-19.37	-19.37	Vertical
11010	49.62	40.05	10.17	59.79	50.22	74.00	54.00	-14.21	-3.78	-3.78	Vertical
15390	50.75	40.70	10.86	61.61	51.56	74.00	54.00	-12.39	-2.44	-2.44	Vertical
18248.499	53.00	40.86	11.12	64.12	51.98	74.00	54.00	-9.88	-2.02	-2.02	Vertical



RSE-M-H

RE_FCC Test Case_FCC 15C 1GHz-25GHz

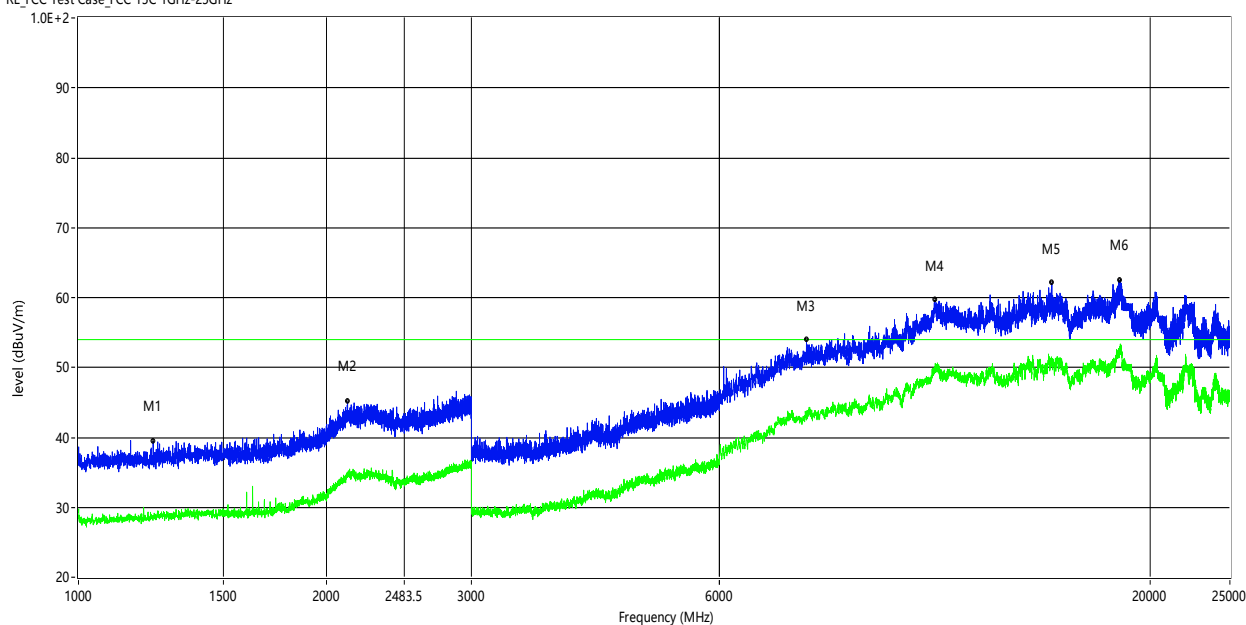


Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1510.5	41.25	30.18	-0.57	40.68	29.61	74.00	54.00	-33.32	-24.39	-24.39	Horizontal
2155.5	40.85	30.14	4.58	45.43	34.72	74.00	54.00	-28.57	-19.28	-19.28	Horizontal
5165.25	51.19	39.88	-5.11	46.08	34.77	74.00	54.00	-27.92	-19.23	-19.23	Horizontal
10983	49.92	39.93	10.09	60.01	50.02	74.00	54.00	-13.99	-3.98	-3.98	Horizontal
14406	50.01	39.52	11.35	61.36	50.87	74.00	54.00	-12.64	-3.13	-3.13	Horizontal
18306.251	51.70	41.34	10.97	62.67	52.31	74.00	54.00	-11.33	-1.69	-1.69	Horizontal



RSE-M-V

RE_FCC Test Case_FCC 15C 1GHz-25GHz

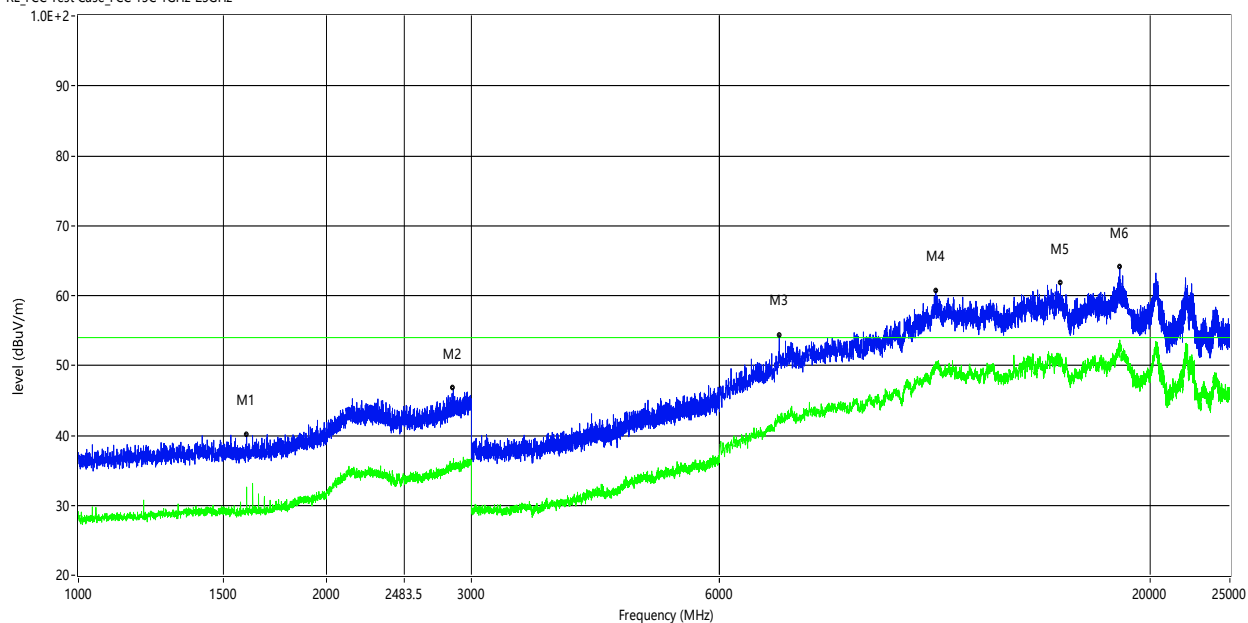


Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1232	40.46	29.81	-1.02	39.44	28.79	74.00	54.00	-34.56	-25.21	-25.21	Vertical
2122	40.91	30.60	4.16	45.07	34.76	74.00	54.00	-28.93	-19.24	-19.24	Vertical
7653	50.20	40.11	3.69	53.89	43.80	74.00	54.00	-20.11	-10.20	-10.20	Vertical
10962	49.67	40.20	9.93	59.60	50.13	74.00	54.00	-14.40	-3.87	-3.87	Vertical
15195	51.09	40.10	11.01	62.10	51.11	74.00	54.00	-11.90	-2.89	-2.89	Vertical
18376.249	51.69	41.75	10.79	62.48	52.54	74.00	54.00	-11.52	-1.46	-1.46	Vertical



RSE-H-H

RE_FCC Test Case_FCC 15C 1GHz-25GHz

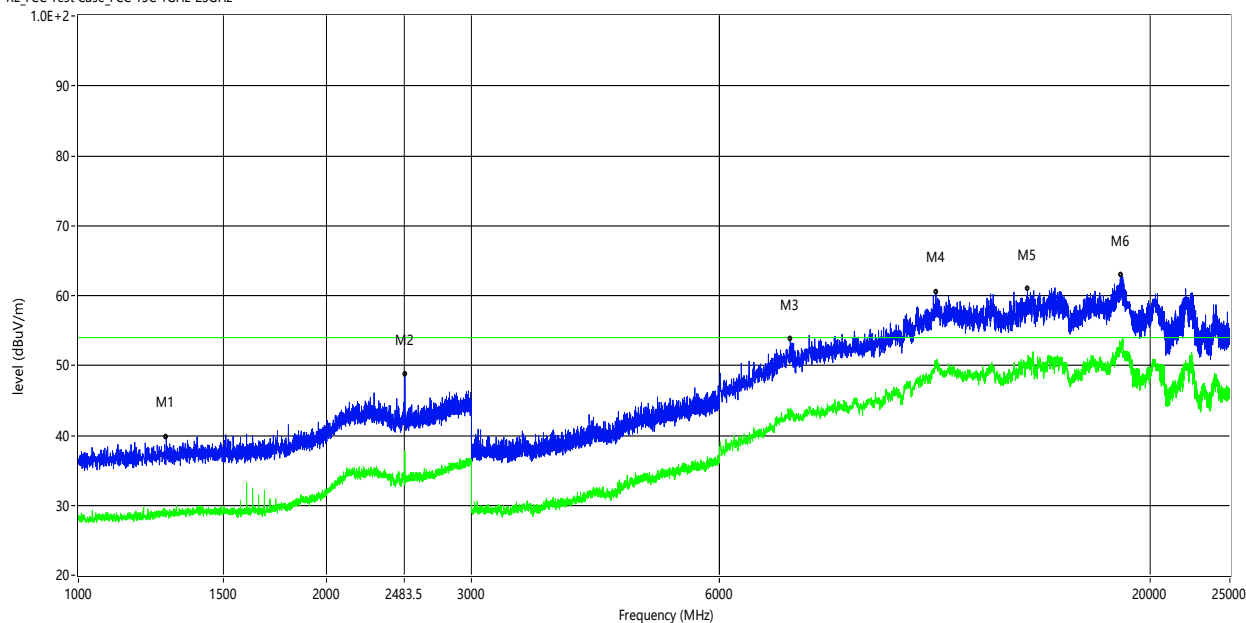


Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1600	40.58	33.12	-0.49	40.09	32.63	74.00	54.00	-33.91	-21.37	-21.37	Horizontal
2851	41.13	30.16	5.61	46.74	35.77	74.00	54.00	-27.26	-18.23	-18.23	Horizontal
7092	51.62	39.99	2.67	54.29	42.66	74.00	54.00	-19.71	-11.34	-11.34	Horizontal
10986	50.58	40.41	10.11	60.69	50.52	74.00	54.00	-13.31	-3.48	-3.48	Horizontal
15570	50.97	39.70	10.79	61.76	50.49	74.00	54.00	-12.24	-3.51	-3.51	Horizontal
18376.249	53.30	42.86	10.79	64.09	53.65	74.00	54.00	-9.91	-0.35	-0.35	Horizontal



RSE-H-V

RE_FCC Test Case_FCC 15C 1GHz-25GHz

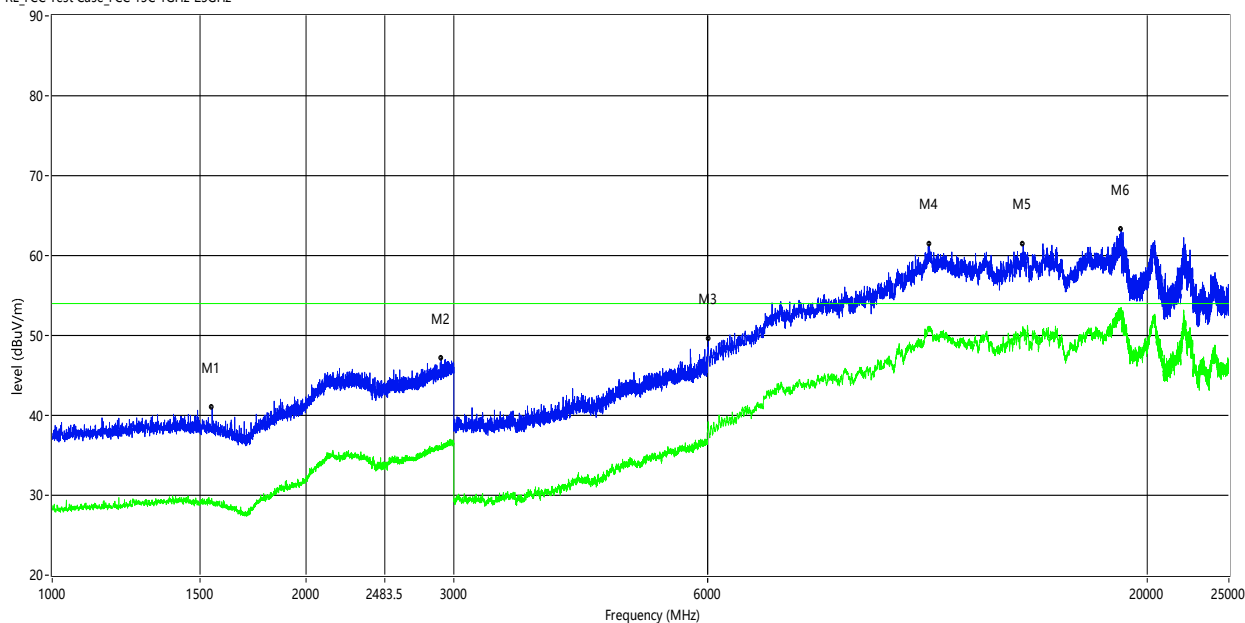


Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1278	40.69	29.83	-0.93	39.76	28.90	74.00	54.00	-34.24	-25.10	-25.10	Vertical
2490.5	44.72	33.85	3.94	48.66	37.79	74.00	54.00	-25.34	-16.21	-16.21	Vertical
7314	50.41	39.98	3.35	53.76	43.33	74.00	54.00	-20.24	-10.67	-10.67	Vertical
10989	50.36	40.20	10.14	60.50	50.34	74.00	54.00	-13.50	-3.66	-3.66	Vertical
14199	49.35	38.44	11.59	60.94	50.03	74.00	54.00	-13.06	-3.97	-3.97	Vertical
18447.999	52.35	42.13	10.61	62.96	52.74	74.00	54.00	-11.04	-1.26	-1.26	Vertical



802.11n(HT20) RSE-L-H

RE_FCC Test Case_FCC 15C 1GHz-25GHz

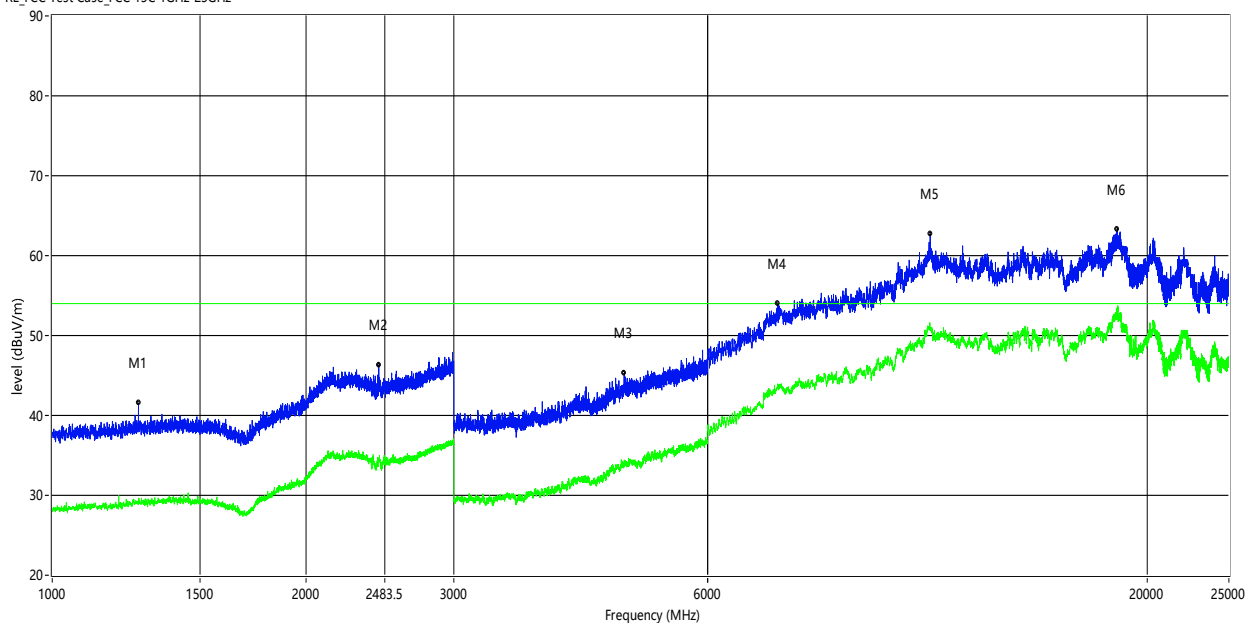


Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1548.5	41.57	29.77	-0.61	40.96	29.16	74.00	54.00	-33.04	-24.84	-24.84	Horizontal
2897.5	41.47	30.32	5.61	47.08	35.93	74.00	54.00	-26.92	-18.07	-18.07	Horizontal
6018	50.42	39.49	-0.86	49.56	38.63	74.00	54.00	-24.44	-15.37	-15.37	Horizontal
11013	51.29	40.49	10.15	61.44	50.64	74.00	54.00	-12.56	-3.36	-3.36	Horizontal
14238	50.05	39.42	11.31	61.36	50.73	74.00	54.00	-12.64	-3.27	-3.27	Horizontal
18612.5	52.63	42.34	10.62	63.25	52.96	74.00	54.00	-10.75	-1.04	-1.04	Horizontal



RSE-L-V

RE_FCC Test Case_FCC 15C 1GHz-25GHz

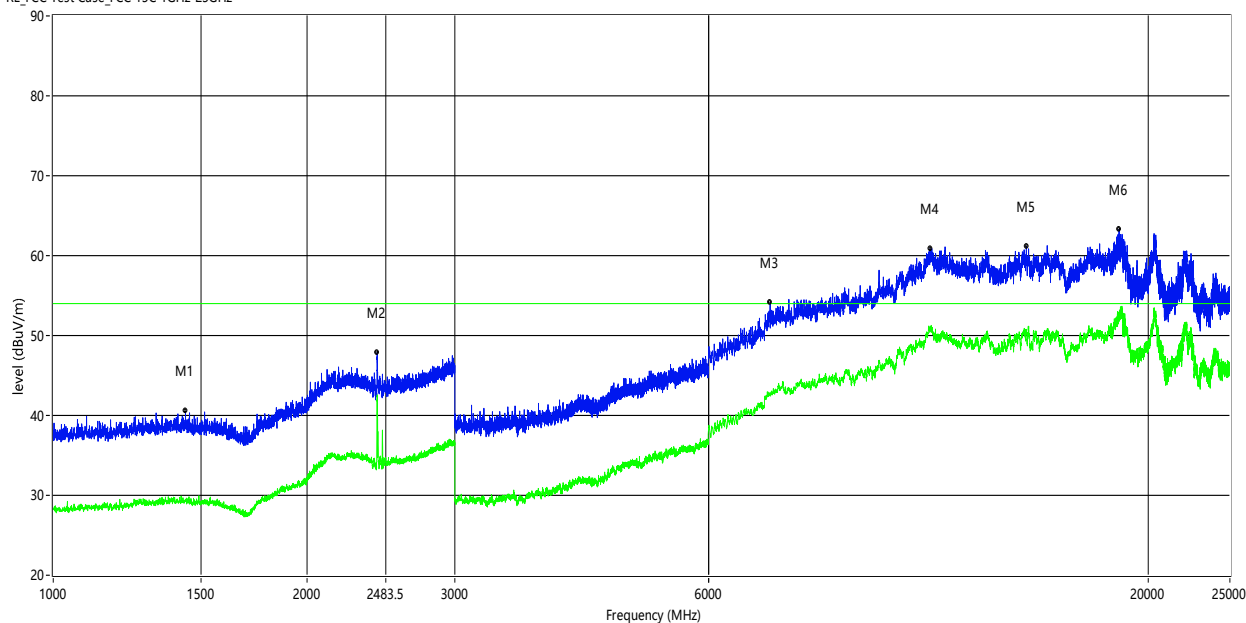


Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1266	42.47	29.88	-0.92	41.55	28.96	74.00	54.00	-32.45	-25.04	-25.04	Vertical
2443.5	42.29	30.49	4.06	46.35	34.55	74.00	54.00	-27.65	-19.45	-19.45	Vertical
4779.75	52.29	41.00	-7.07	45.22	33.93	74.00	54.00	-28.78	-20.07	-20.07	Vertical
7272	50.83	40.62	3.2	54.03	43.82	74.00	54.00	-19.97	-10.18	-10.18	Vertical
11040	52.75	40.93	10	62.75	50.93	74.00	54.00	-11.25	-3.07	-3.07	Vertical
18423.501	52.63	42.21	10.67	63.30	52.88	74.00	54.00	-10.70	-1.12	-1.12	Vertical



RSE-M-H

RE_FCC Test Case_FCC 15C 1GHz-25GHz

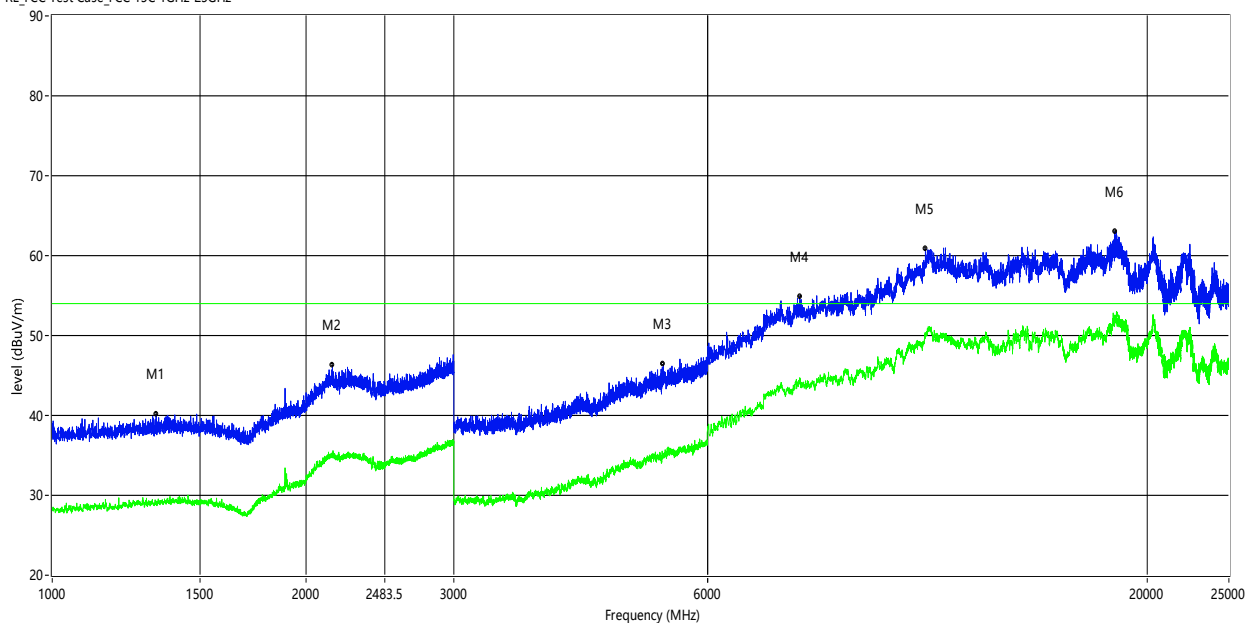


Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1436	41.13	29.90	-0.61	40.52	29.29	74.00	54.00	-33.48	-24.71	-24.71	Horizontal
2426	43.88	38.55	4.02	47.90	42.57	74.00	54.00	-26.10	-11.43	-11.43	Horizontal
7107	51.38	39.84	2.74	54.12	42.58	74.00	54.00	-19.88	-11.42	-11.42	Horizontal
11007	50.70	40.82	10.18	60.88	51.00	74.00	54.00	-13.12	-3.00	-3.00	Horizontal
14325	50.19	39.76	10.97	61.16	50.73	74.00	54.00	-12.84	-3.27	-3.27	Horizontal
18458.499	52.72	42.35	10.58	63.30	52.93	74.00	54.00	-10.70	-1.07	-1.07	Horizontal



RSE-M-V

RE_FCC Test Case_FCC 15C 1GHz-25GHz

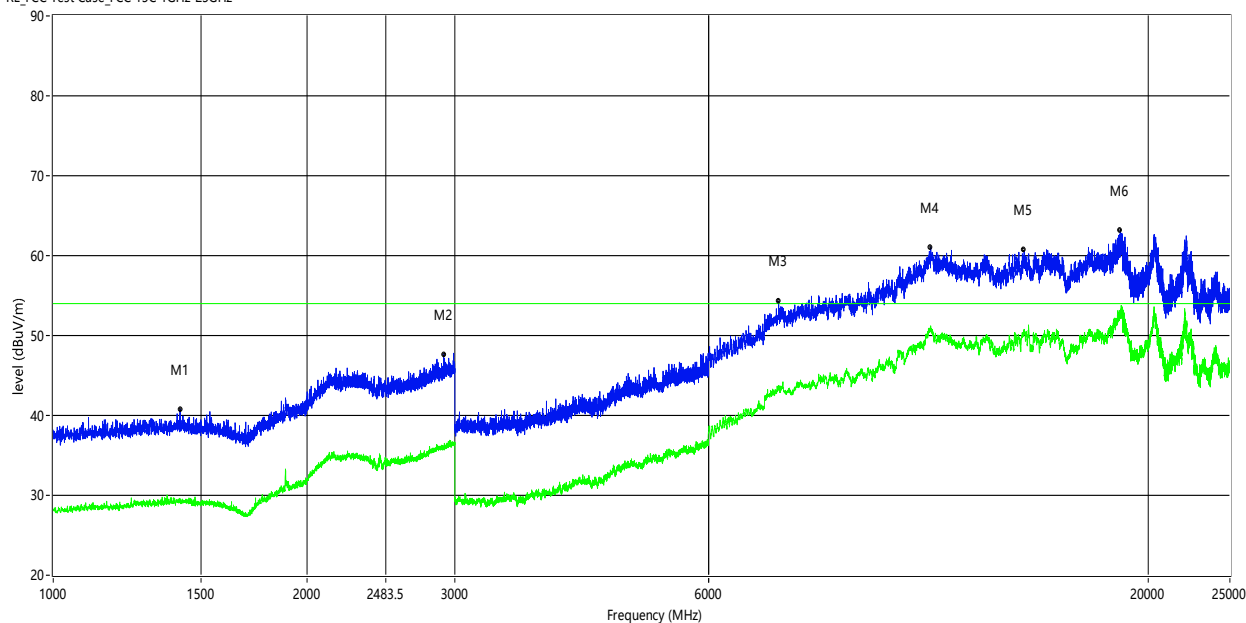


Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1328.5	40.96	29.89	-0.85	40.11	29.04	74.00	54.00	-33.89	-24.96	-24.96	Vertical
2152	41.65	30.56	4.61	46.26	35.17	74.00	54.00	-27.74	-18.83	-18.83	Vertical
5321.25	51.38	39.88	-4.95	46.43	34.93	74.00	54.00	-27.57	-19.07	-19.07	Vertical
7725	50.89	40.19	4	54.89	44.19	74.00	54.00	-19.11	-9.81	-9.81	Vertical
10899	51.42	40.45	9.44	60.86	49.89	74.00	54.00	-13.14	-4.11	-4.11	Vertical
18304.5	52.07	41.11	10.97	63.04	52.08	74.00	54.00	-10.96	-1.92	-1.92	Vertical



RSE-H-H

RE_FCC Test Case_FCC 15C 1GHz-25GHz

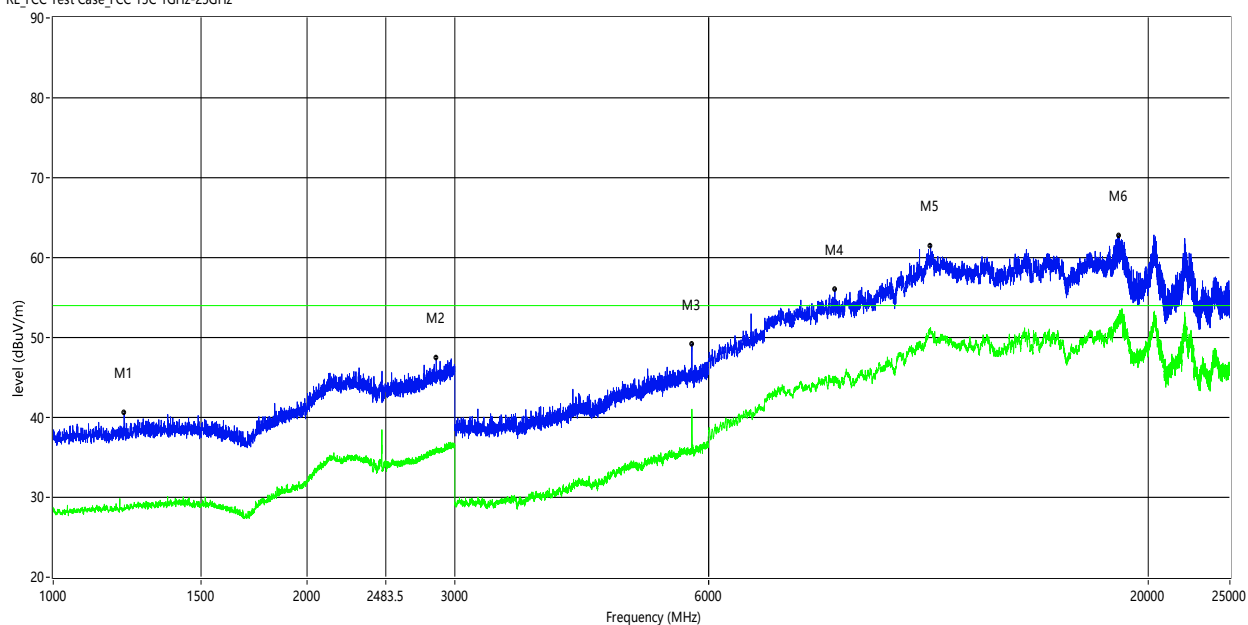


Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1416	41.36	30.13	-0.64	40.72	29.49	74.00	54.00	-33.28	-24.51	-24.51	Horizontal
2910	41.97	30.30	5.67	47.64	35.97	74.00	54.00	-26.36	-18.03	-18.03	Horizontal
7275	51.08	40.53	3.22	54.30	43.75	74.00	54.00	-19.70	-10.25	-10.25	Horizontal
11031	51.02	40.60	10.05	61.07	50.65	74.00	54.00	-12.93	-3.35	-3.35	Horizontal
14238	49.35	39.35	11.31	60.66	50.66	74.00	54.00	-13.34	-3.34	-3.34	Horizontal
18519.751	52.67	41.76	10.5	63.17	52.26	74.00	54.00	-10.83	-1.74	-1.74	Horizontal



RSE-H-V

RE_FCC Test Case_FCC 15C 1GHz-25GHz

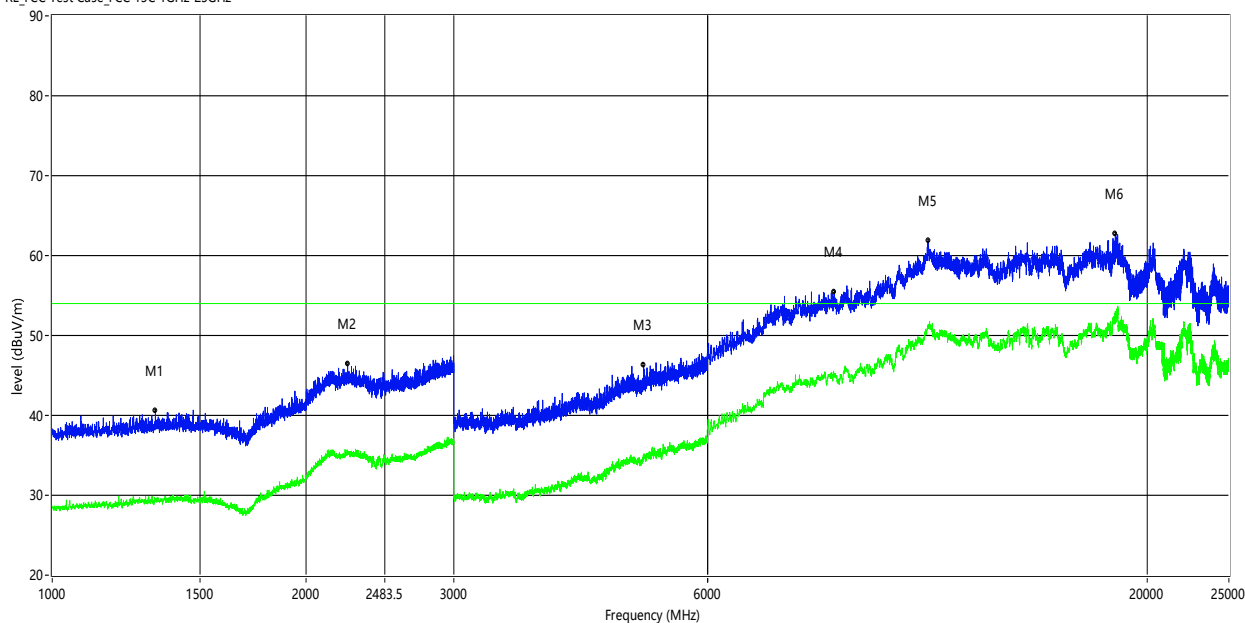


Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1214	41.72	29.52	-1.13	40.59	28.39	74.00	54.00	-33.41	-25.61	-25.61	Vertical
2851	41.77	30.34	5.61	47.38	35.95	74.00	54.00	-26.62	-18.05	-18.05	Vertical
5739	53.17	44.89	-3.97	49.20	40.92	74.00	54.00	-24.80	-13.08	-13.08	Vertical
8484	51.42	40.31	4.59	56.01	44.90	74.00	54.00	-17.99	-9.10	-9.10	Vertical
11028	51.43	40.86	10.07	61.50	50.93	74.00	54.00	-12.50	-3.07	-3.07	Vertical
18435.75	52.08	41.12	10.64	62.72	51.76	74.00	54.00	-11.28	-2.24	-2.24	Vertical



802.11n(HT40) RSE-L-H

RE_FCC Test Case_FCC 15C 1GHz-25GHz

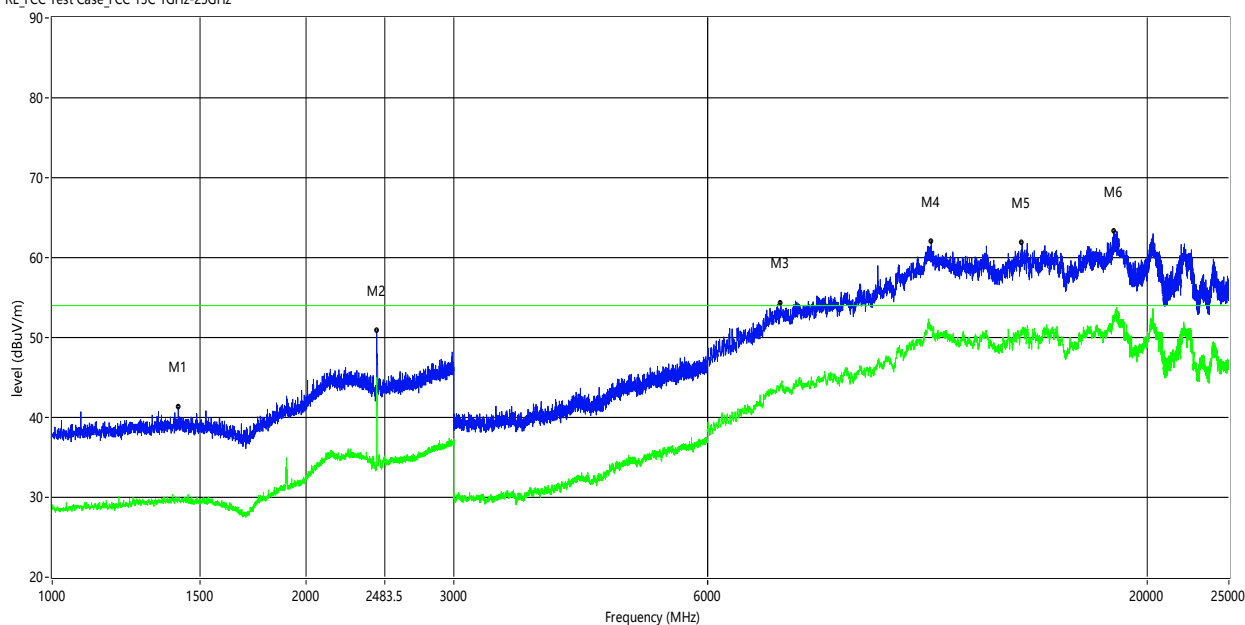


Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1326	41.49	30.44	-0.86	40.63	29.58	74.00	54.00	-33.37	-24.42	-24.42	Horizontal
2244	41.88	30.66	4.58	46.46	35.24	74.00	54.00	-27.54	-18.76	-18.76	Horizontal
5043	52.26	40.91	-6.02	46.24	34.89	74.00	54.00	-27.76	-19.11	-19.11	Horizontal
8490	50.85	40.49	4.61	55.46	45.10	74.00	54.00	-18.54	-8.90	-8.90	Horizontal
10986	51.73	41.30	10.11	61.84	51.41	74.00	54.00	-12.16	-2.59	-2.59	Horizontal
18322	51.76	41.22	10.93	62.69	52.15	74.00	54.00	-11.31	-1.85	-1.85	Horizontal



RSE-L-V

RE_FCC Test Case_FCC 15C 1GHz-25GHz

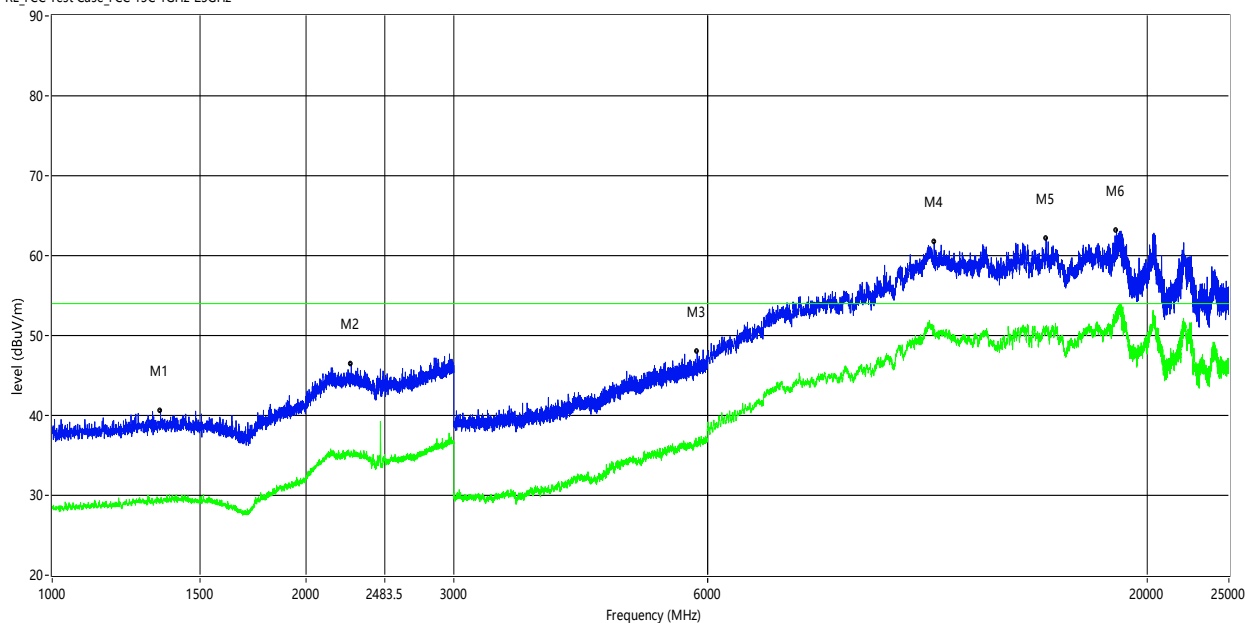


Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1411.5	41.88	30.37	-0.64	41.24	29.73	74.00	54.00	-32.76	-24.27	-24.27	Vertical
2429.5	46.78	40.97	4.02	50.80	44.99	74.00	54.00	-23.20	-9.01	-9.01	Vertical
7341	51.12	41.01	3.23	54.35	44.24	74.00	54.00	-19.65	-9.76	-9.76	Vertical
11073	52.18	41.34	9.83	62.01	51.17	74.00	54.00	-11.99	-2.83	-2.83	Vertical
14199	50.20	38.77	11.59	61.79	50.36	74.00	54.00	-12.21	-3.64	-3.64	Vertical
18248.499	52.20	41.63	11.12	63.32	52.75	74.00	54.00	-10.68	-1.25	-1.25	Vertical



RSE-M-H

RE_FCC Test Case_FCC 15C 1GHz-25GHz

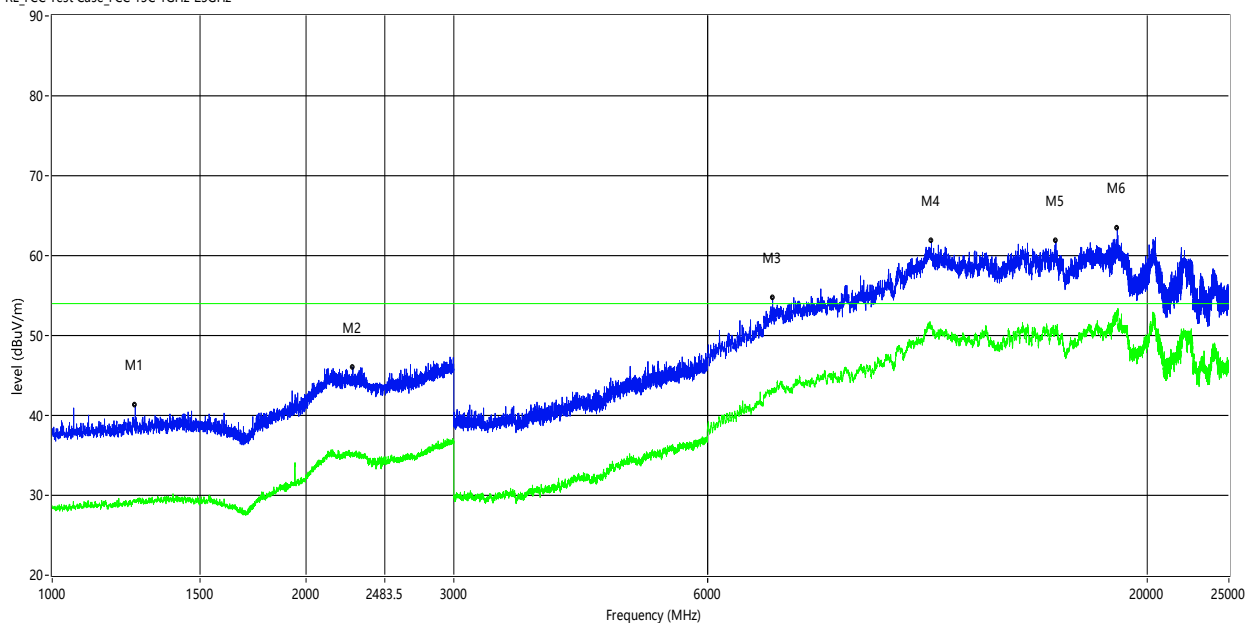


Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1345	41.38	30.09	-0.81	40.57	29.28	74.00	54.00	-33.43	-24.72	-24.72	Horizontal
2266	41.87	30.45	4.62	46.49	35.07	74.00	54.00	-27.51	-18.93	-18.93	Horizontal
5836.5	51.63	39.50	-3.64	47.99	35.86	74.00	54.00	-26.01	-18.14	-18.14	Horizontal
11163	52.05	40.75	9.63	61.68	50.38	74.00	54.00	-12.32	-3.62	-3.62	Horizontal
15162	51.35	40.24	10.76	62.11	51.00	74.00	54.00	-11.89	-3.00	-3.00	Horizontal
18381.5	52.30	41.96	10.78	63.08	52.74	74.00	54.00	-10.92	-1.26	-1.26	Horizontal



RSE-M-V

RE_FCC Test Case_FCC 15C 1GHz-25GHz

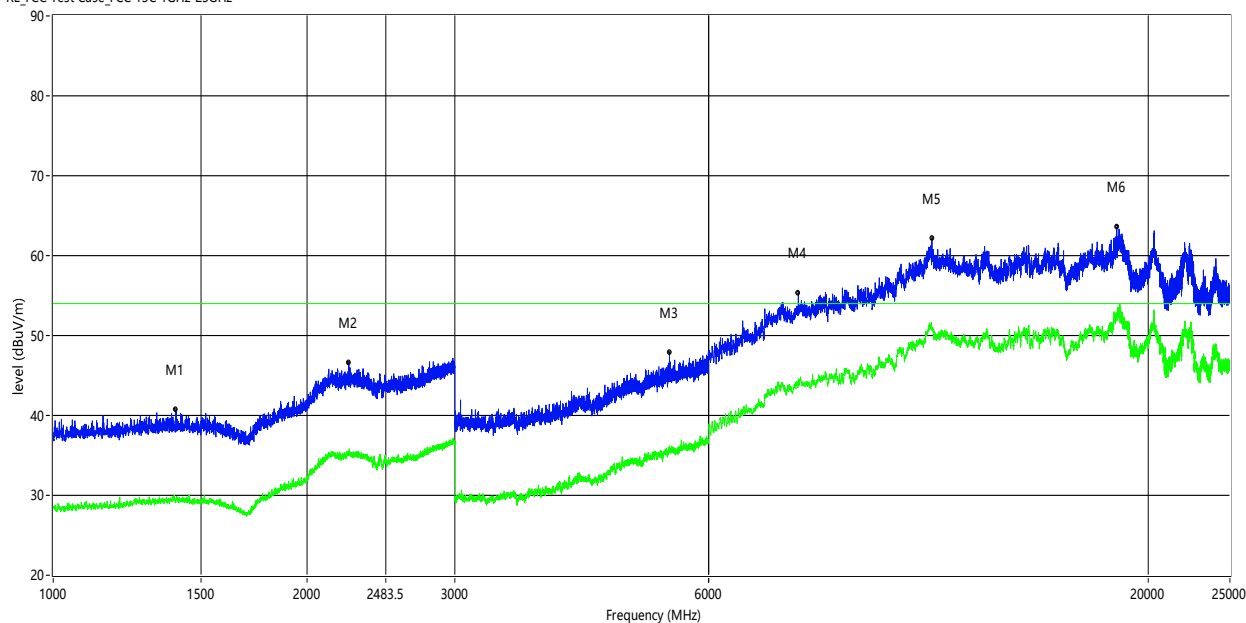


Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1255	42.17	30.13	-0.91	41.26	29.22	74.00	54.00	-32.74	-24.78	-24.78	Vertical
2276	41.46	30.58	4.61	46.07	35.19	74.00	54.00	-27.93	-18.81	-18.81	Vertical
7176	52.01	40.56	2.68	54.69	43.24	74.00	54.00	-19.31	-10.76	-10.76	Vertical
11079	52.04	41.46	9.79	61.83	51.25	74.00	54.00	-12.17	-2.75	-2.75	Vertical
15573	51.04	39.74	10.8	61.84	50.54	74.00	54.00	-12.16	-3.46	-3.46	Vertical
18421.75	52.78	42.38	10.67	63.45	53.05	74.00	54.00	-10.55	-0.95	-0.95	Vertical



RSE-H-H

RE_FCC Test Case_FCC 15C 1GHz-25GHz

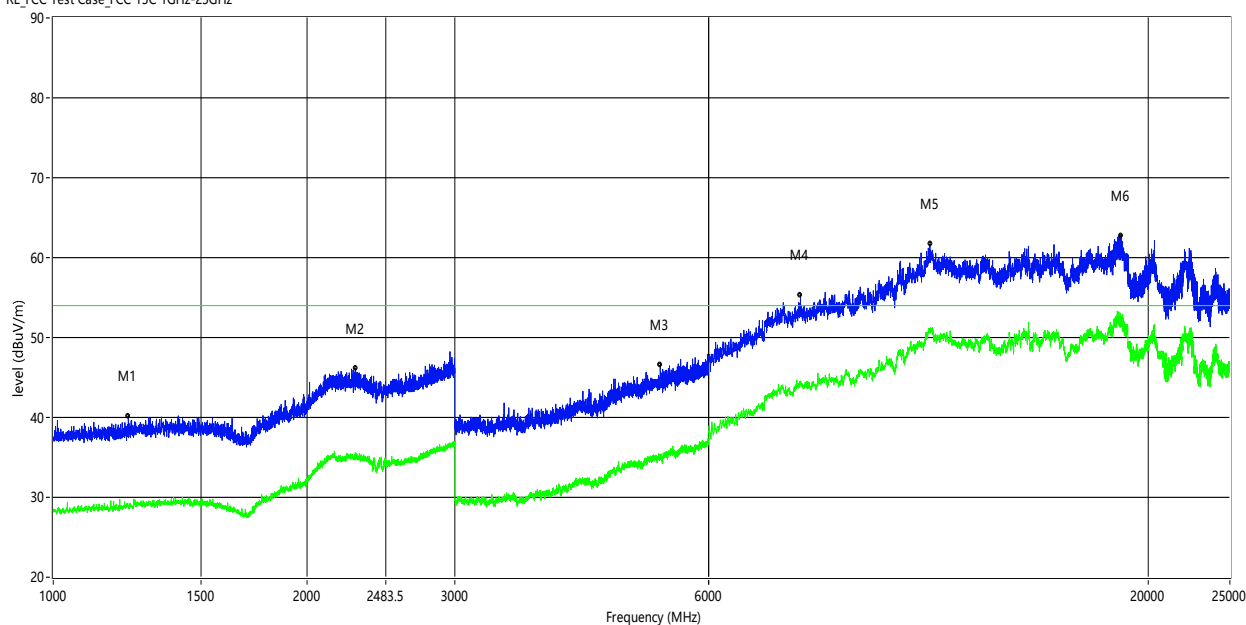


Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1399.5	41.40	30.05	-0.66	40.74	29.39	74.00	54.00	-33.26	-24.61	-24.61	Horizontal
2245	42.04	30.36	4.59	46.63	34.95	74.00	54.00	-27.37	-19.05	-19.05	Horizontal
5396.25	52.64	40.52	-4.76	47.88	35.76	74.00	54.00	-26.12	-18.24	-18.24	Horizontal
7677	51.28	40.02	3.94	55.22	43.96	74.00	54.00	-18.78	-10.04	-10.04	Horizontal
11064.001	52.26	41.19	9.87	62.13	51.06	74.00	54.00	-11.87	-2.94	-2.94	Horizontal
18346.5	52.72	41.46	10.87	63.59	52.33	74.00	54.00	-10.41	-1.67	-1.67	Horizontal



RSE-H-V

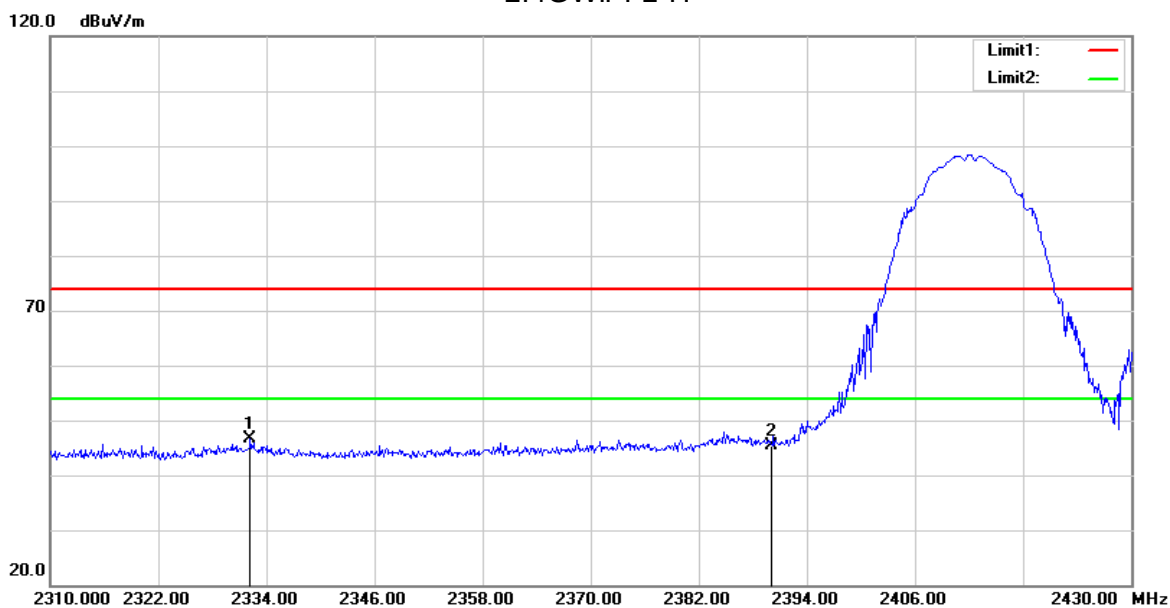
RE_FCC Test Case_FCC 15C 1GHz-25GHz



Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1228	41.21	29.93	-1.04	40.17	28.89	74.00	54.00	-33.83	-25.11	-25.11	Vertical
2287	41.51	30.46	4.6	46.11	35.06	74.00	54.00	-27.89	-18.94	-18.94	Vertical
5262	51.50	39.97	-4.96	46.54	35.01	74.00	54.00	-27.46	-18.99	-18.99	Vertical
7722	51.22	40.36	4.03	55.25	44.39	74.00	54.00	-18.75	-9.61	-9.61	Vertical
11004	51.47	40.76	10.2	61.67	50.96	74.00	54.00	-12.33	-3.04	-3.04	Vertical
18633.501	52.40	42.64	10.64	63.04	53.28	74.00	54.00	-10.96	-0.72	-0.72	Vertical



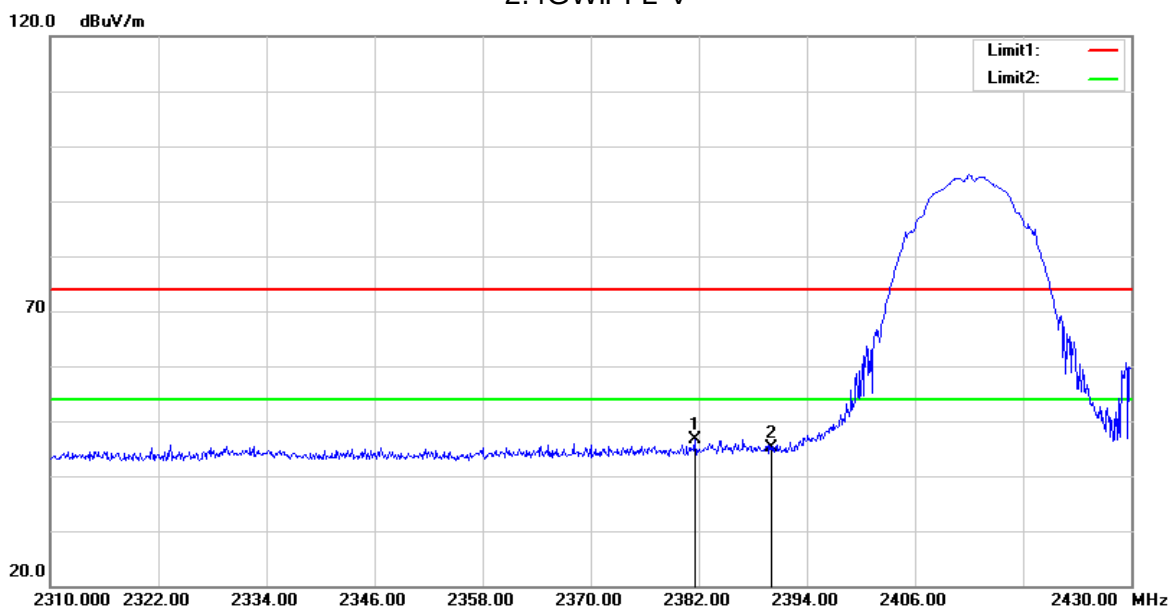
3.2.6 TEST RESULTS(Band edge Requirements)

802.11 b
2.4GWIFI-L-H

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2332.200	42.93	3.64	46.57	74.00	-27.43	peak
2	2390.000	41.16	4.34	45.50	74.00	-28.50	peak

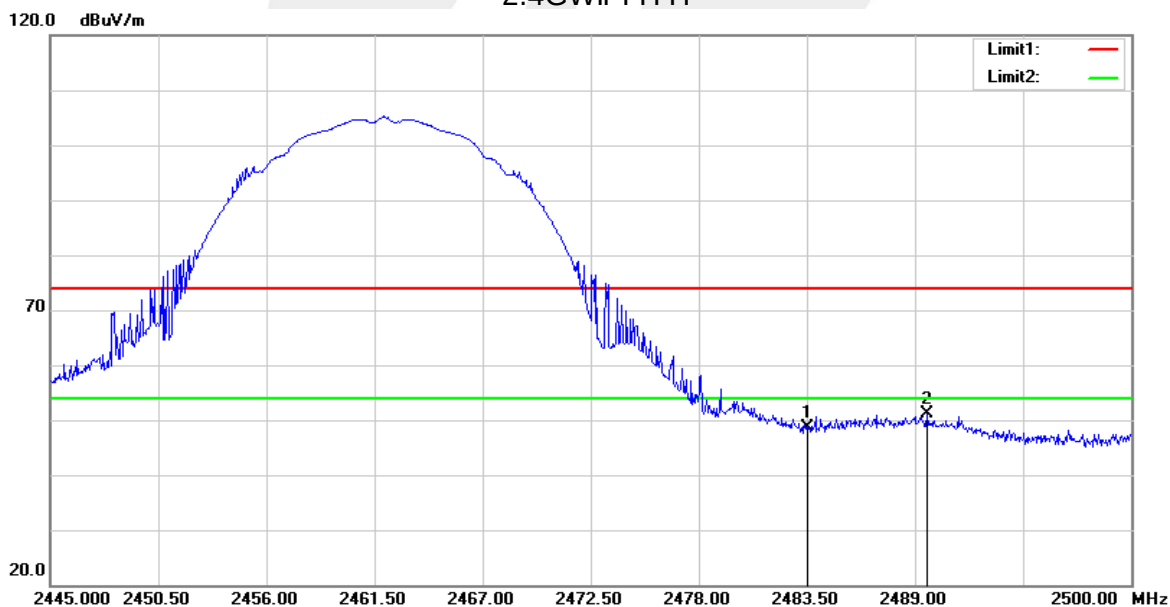


2.4GWIFI-L-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2381.520	42.41	4.22	46.63	74.00	-27.37	peak
2	2390.000	40.68	4.34	45.02	74.00	-28.98	peak

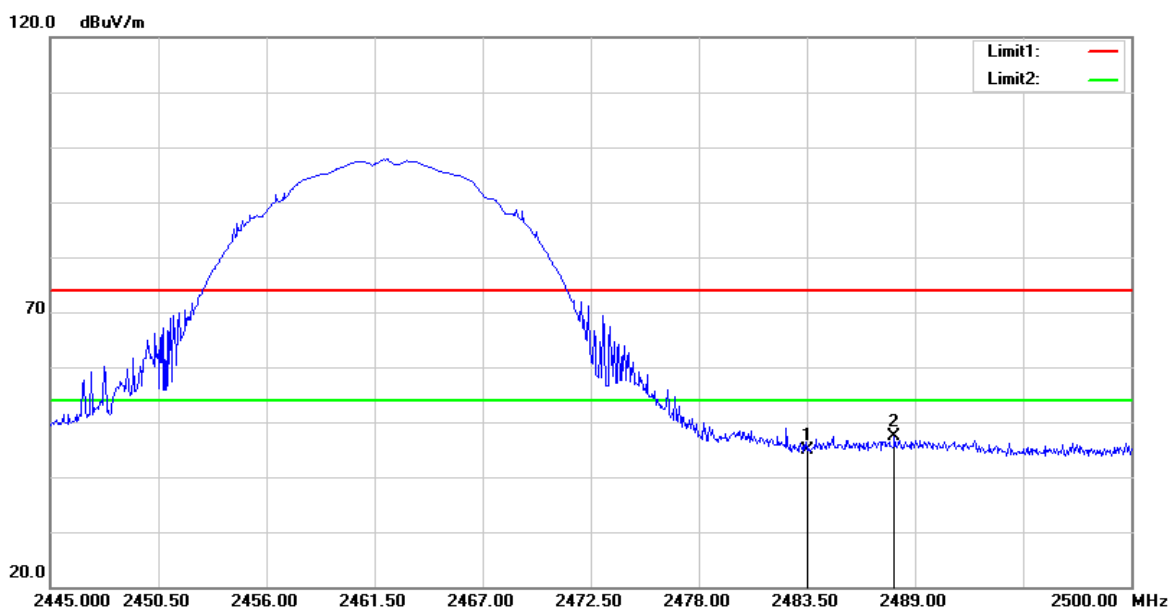
2.4GWIFI-H-H



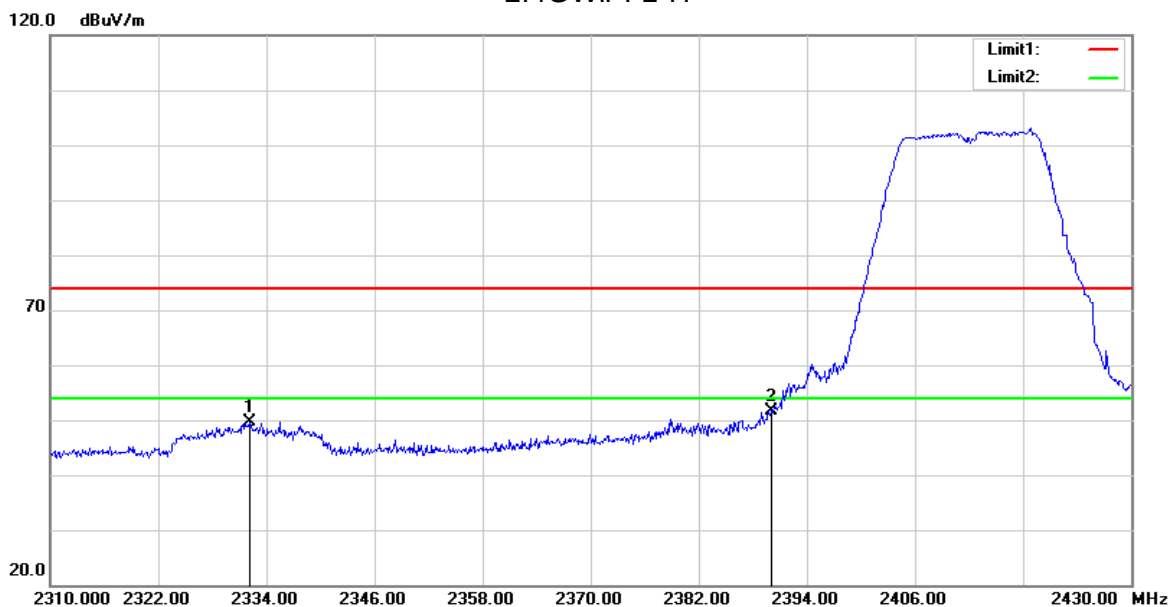
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	44.07	4.60	48.67	74.00	-25.33	peak
2	2489.605	46.44	4.62	51.06	74.00	-22.94	peak



2.4GWIFI-H-V

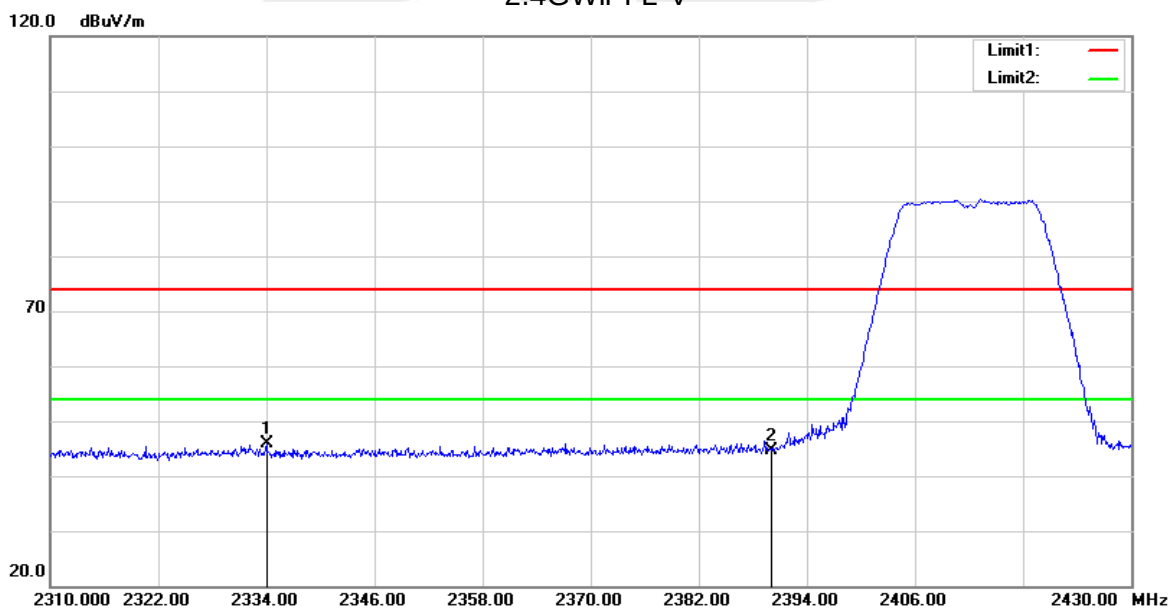


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	40.27	4.60	44.87	74.00	-29.13	peak
2	2487.955	42.79	4.62	47.41	74.00	-26.59	peak

802.11g
2.4GWIFI-L-H

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2332.200	46.09	3.64	49.73	74.00	-24.27	peak
2	2390.000	47.23	4.34	51.57	74.00	-22.43	peak

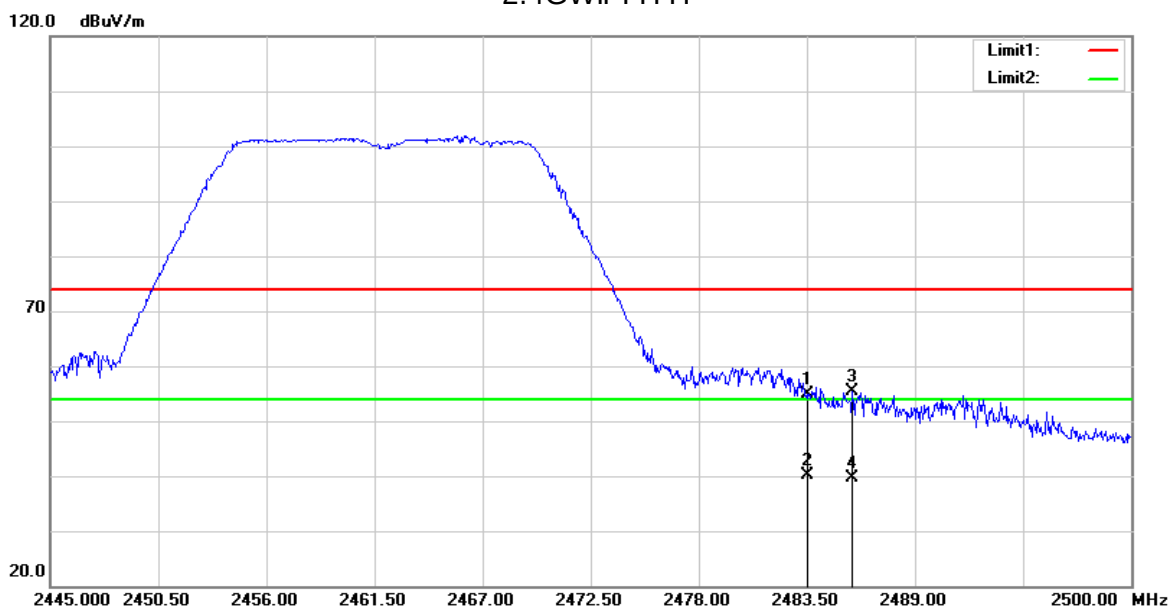
2.4GWIFI-L-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2334.000	42.13	3.66	45.79	74.00	-28.21	peak
2	2390.000	40.37	4.34	44.71	74.00	-29.29	peak



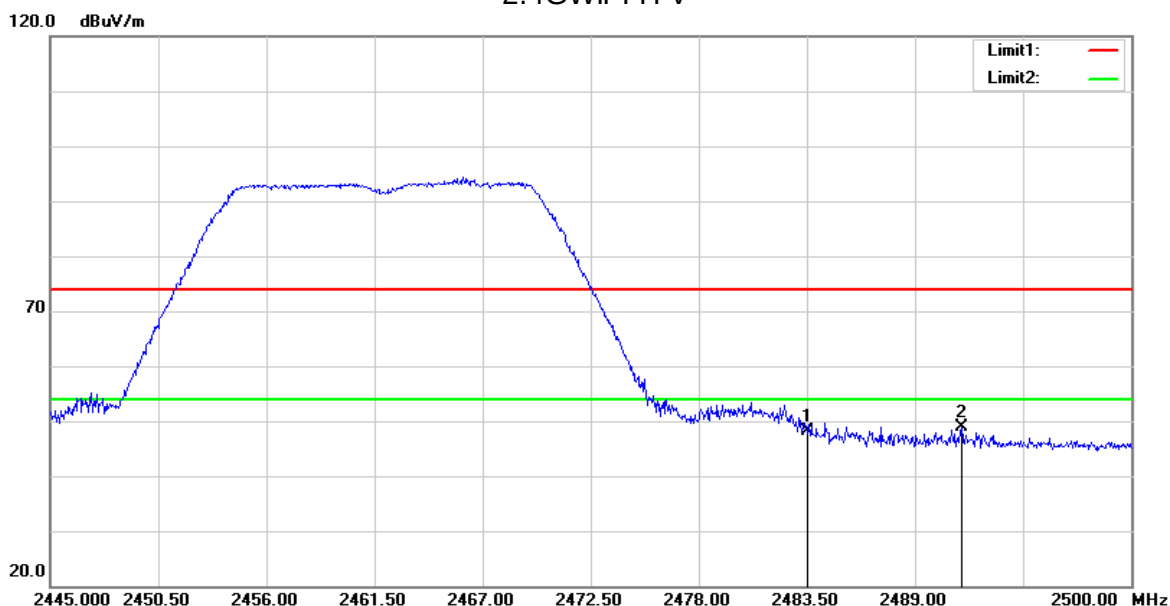
2.4GWIFI-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	50.32	4.60	54.92	74.00	-19.08	peak
2	2483.500	35.54	4.60	40.14	54.00	-13.86	AVG
3	2485.810	50.68	4.61	55.29	74.00	-18.71	peak
4	2485.810	35.11	4.61	39.72	54.00	-14.28	AVG



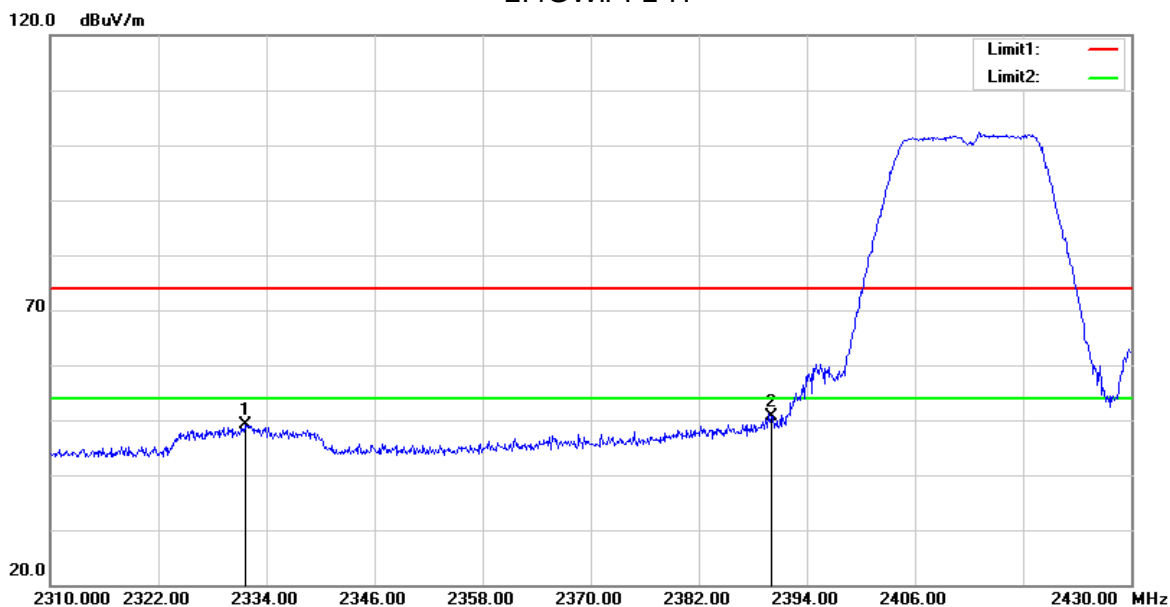
2.4GWIFI-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	43.55	4.60	48.15	74.00	-25.85	peak
2	2491.365	44.24	4.63	48.87	74.00	-25.13	peak

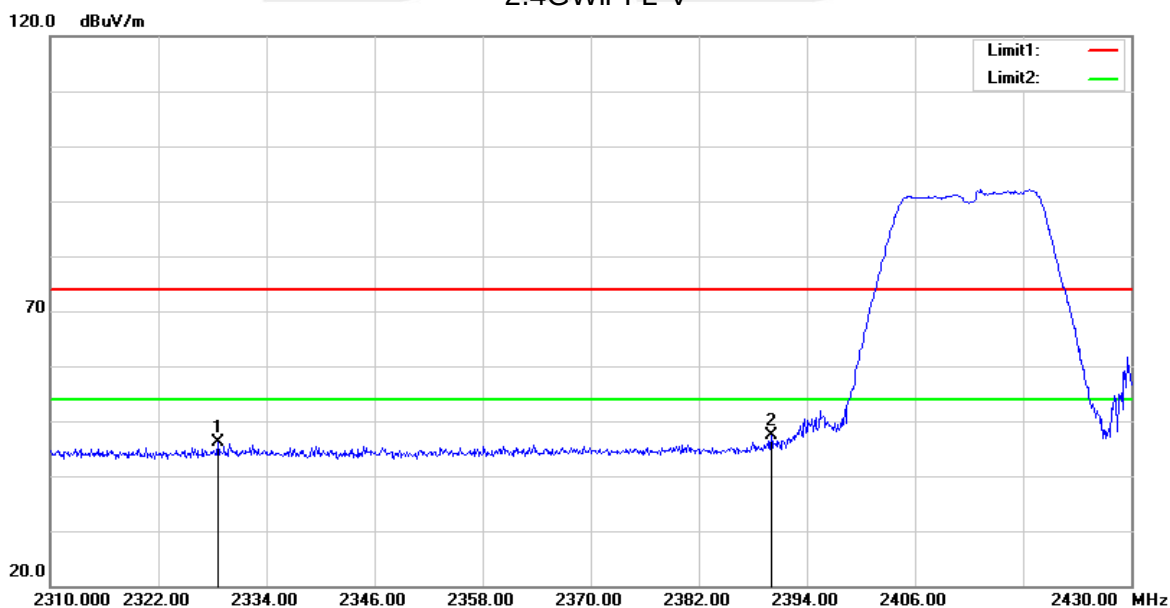


802.11n(HT20)
2.4GWIFI-L-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2331.600	45.41	3.64	49.05	74.00	-24.95	peak
2	2390.000	46.39	4.34	50.73	74.00	-23.27	peak

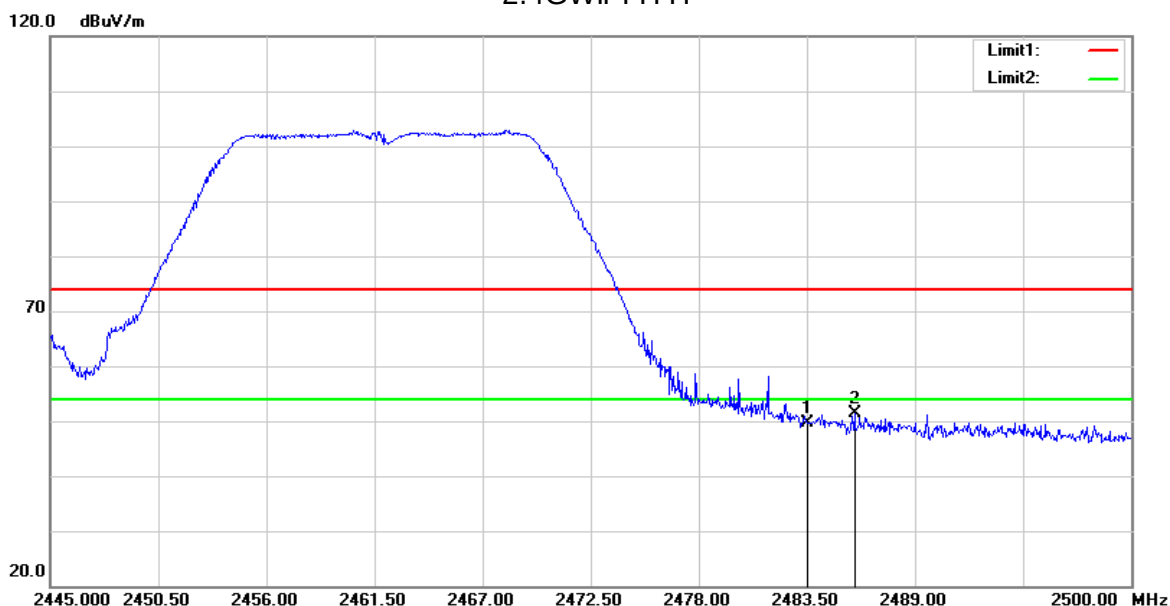
2.4GWIFI-L-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2328.600	42.44	3.63	46.07	74.00	-27.93	peak
2	2390.000	43.03	4.34	47.37	74.00	-26.63	peak

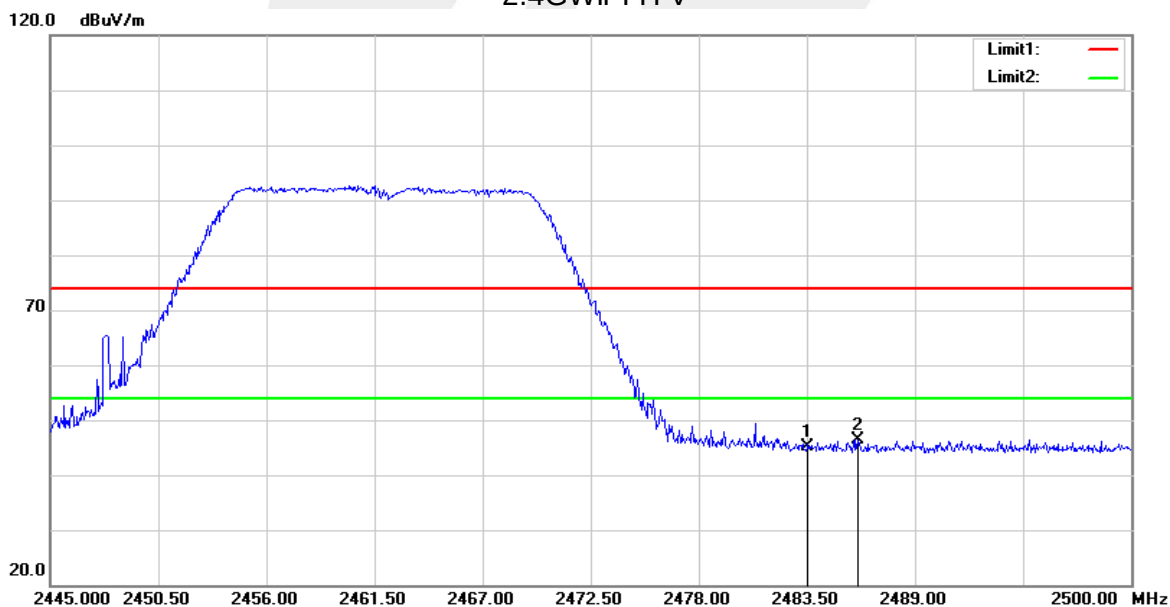


2.4GWIFI-H-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	44.92	4.60	49.52	74.00	-24.48	peak
2	2485.920	46.86	4.61	51.47	74.00	-22.53	peak

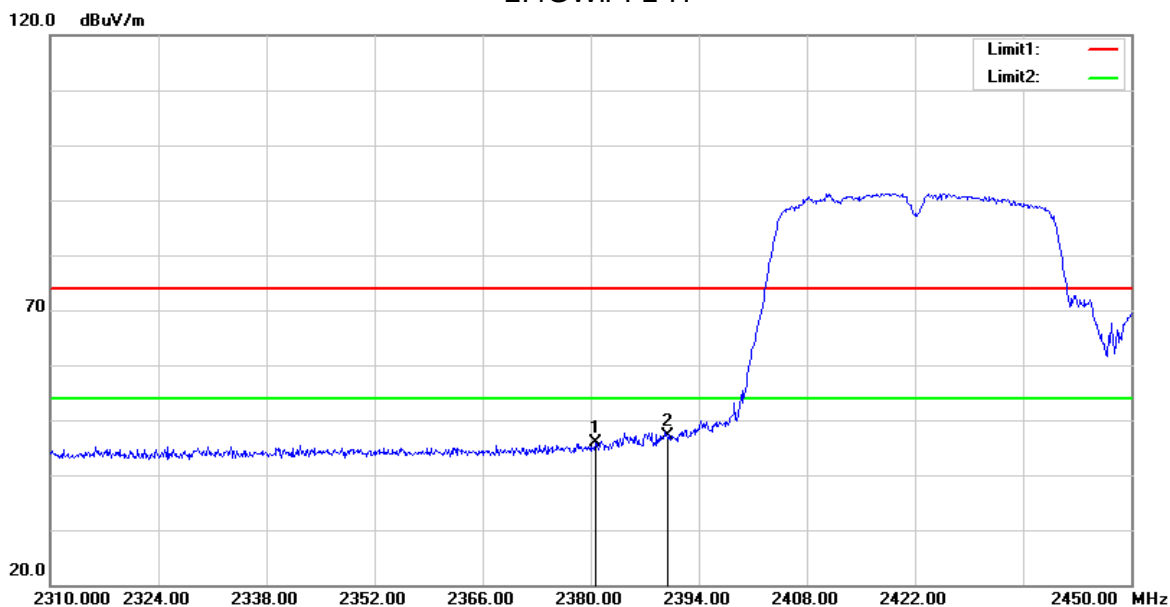
2.4GWIFI-H-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	40.51	4.60	45.11	74.00	-28.89	peak
2	2486.085	41.70	4.61	46.31	74.00	-27.69	peak

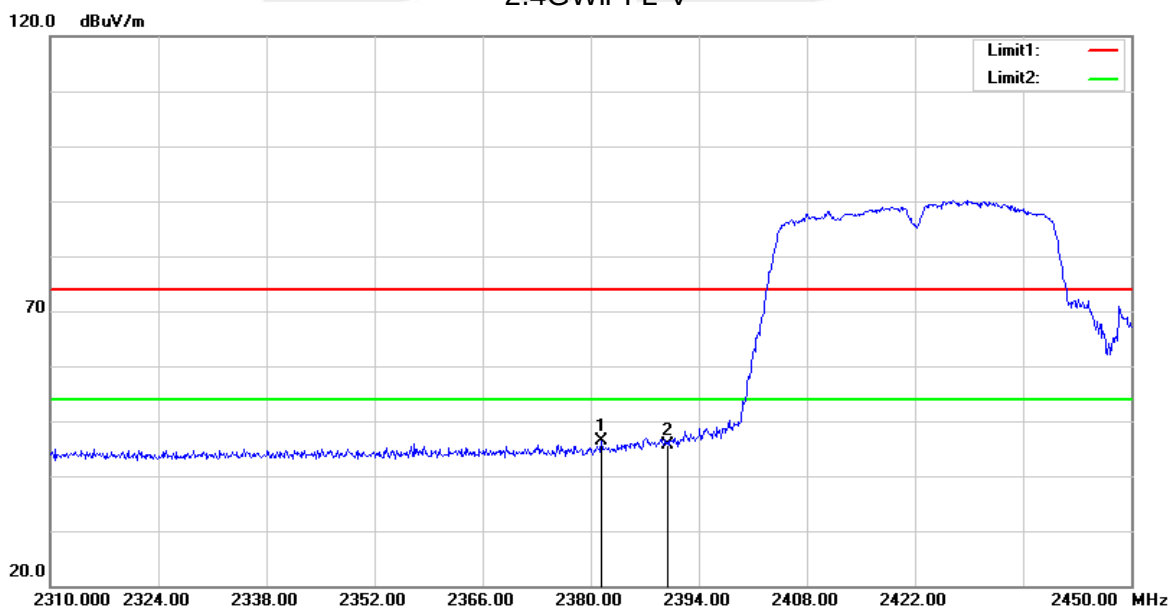


802.11n(HT40)
2.4GWIFI-L-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2380.560	41.71	4.19	45.90	74.00	-28.10	peak
2	2390.000	42.91	4.34	47.25	74.00	-26.75	peak

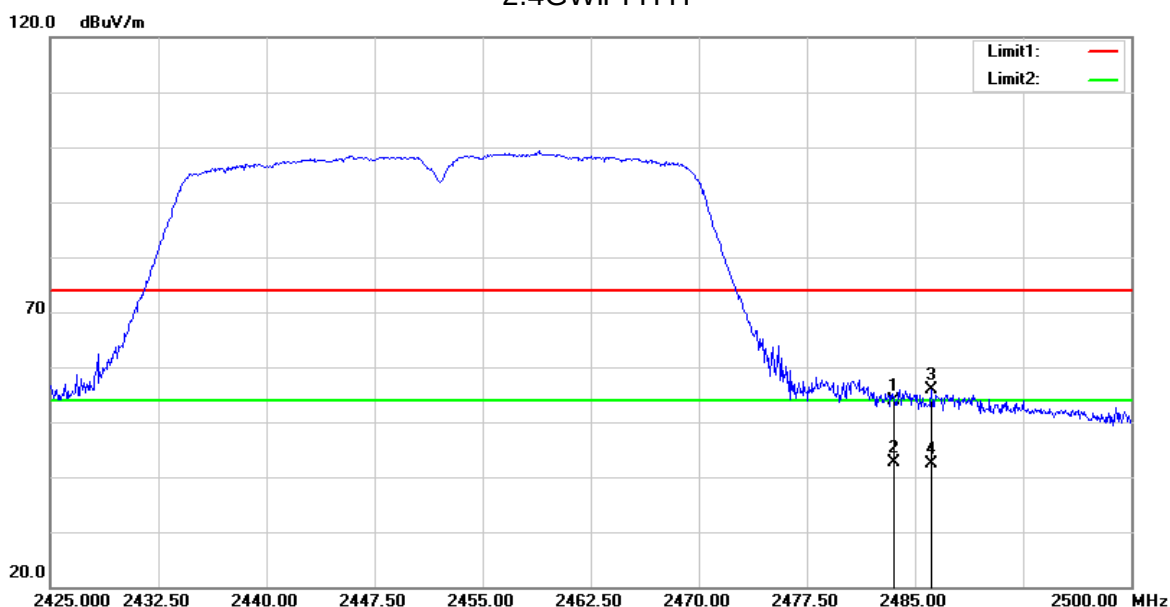
2.4GWIFI-L-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2381.400	42.08	4.21	46.29	74.00	-27.71	peak
2	2390.000	41.36	4.34	45.70	74.00	-28.30	peak



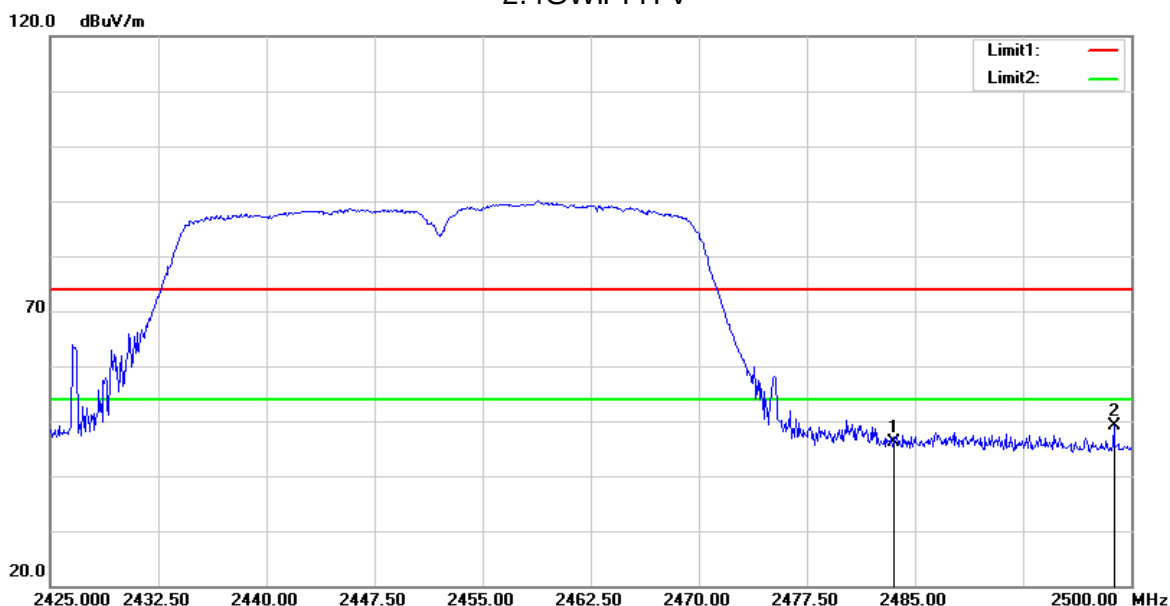
2.4GWIFI-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	49.17	4.60	53.77	74.00	-20.23	peak
2	2483.500	38.04	4.60	42.64	54.00	-11.36	AVG
3	2486.125	51.37	4.61	55.98	74.00	-18.02	peak
4	2486.125	37.87	4.61	42.48	54.00	-11.52	AVG



2.4GWIFI-H-V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	41.42	4.60	46.02	74.00	-27.98	peak
2	2498.800	44.40	4.65	49.05	74.00	-24.95	peak

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✕✕✕✕✕