



RADIO TEST REPORT

Report No.: SHATBL2212018W01

Applicant:

DZS Inc.

Address:

5700 Tennyson Parkway Suite 400 Plano Texas United States

Product Name : Optical Network Terminal (ONT)

Brand Name : DZS

Model Name : 2466GN

Series Model : N/A

Test Standard : FCC Part 15.247

FCC ID : PJZ2466GN

"Shanghai ATBL Technology Co., Ltd." hereby certifies that according to actual testing conditions. The test results or observations are provided in accordance with measured value, without taking risks caused by uncertainty into account. Without explicit stipulation in special agreements, standards or regulations, ATBL shall not assume any responsibility. The test results or observations are applicable only to tested sample. Client shall be responsible for representativeness of the sample and authenticity of the material. This report will be void without authorized signature or special seal for testing report. Do not copied without authorization.

Tel:+86(0)21-51298625

Web:www.atbl-lab.com

Email:atbl@atbl-lab.com

TEST RESULT CERTIFICATION

Applicant's Name.....: DZS Inc.

Address.....: 5700 Tennyson Parkway Suite 400 Plano Texas United States

Manufacturer's Name.....: TDG Technology Co., Ltd.

Address.....: No.1 Yatai Road, Jiaxing City, Zhejiang Province, P.R. China

Product Description

Product Name.....: Optical Network Terminal (ONT)

Brand Name.....: DZS

Model Name.....: 2466GN

Series Model.....: N/A

Test Standards.....: FCC Part15.247

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

This device described above has been tested by ATBL, 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 ATBL, this document only be altered or revised by ATBL, personal only, and shall be noted in the revision of the document.

Date of Test

Date of receipt of test item.....: 2022.12.19

Date (s) of performance of tests.....: 2023.1.7-2023.1.31

Date of Issue.....: 2023.2.11

Test Result.....: Pass

Report Prepared by :

Chris Xu
(Chris Xu)

Report Approved by :

Ghost Li.
(Ghost.Li)

Authorized Signatory :

Terry Yang
(Terry Yang)



Table of Contents

Page

1. SUMMARY OF TEST RESULTS	6
2. GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF THE EUT	7
2.2 DESCRIPTION OF THE TEST MODES	9
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 LABORATORY INFORMATION	13
2.7 MEASUREMENT UNCERTAINTY	13
2.8 EQUIPMENTS LIST	14
3. EMC EMISSION TEST	15
3.1 CONDUCTED EMISSION MEASUREMENT	15
3.2 RADIATED EMISSION MEASUREMENT	21
4. CONDUCTED SPURIOUS & BAND EDGE EMISSION	86
4.1 LIMIT	86
4.2 TEST PROCEDURE	86
4.3 DEVIATION FROM STANDARD	86
4.4 TEST SETUP	86
4.5 EUT OPERATION CONDITIONS	86
4.6 TEST RESULTS	87
5. POWER SPECTRAL DENSITY TEST	98
5.1 LIMIT	98
5.2 TEST PROCEDURE	98
5.3 DEVIATION FROM STANDARD	98
5.4 TEST SETUP	98
5.5 EUT OPERATION CONDITIONS	98
5.6 TEST RESULTS	98
6. BANDWIDTH TEST	106
6.1 LIMIT	106
6.2 TEST PROCEDURE	106
6.3 DEVIATION FROM STANDARD	106
6.4 TEST SETUP	106
6.5 EUT OPERATION CONDITIONS	106

Table of Contents

Page

6.6 TEST RESULTS	106
7. PEAK OUTPUT POWER TEST	117
7.1 LIMIT	117
7.2 TEST PROCEDURE	117
7.3 DEVIATION FROM STANDARD	117
7.4 TEST SETUP	117
7.5 EUT OPERATION CONDITIONS	117
7.6 TEST RESULTS	118
8. ANTENNA REQUIREMENT	124
8.1 STANDARD REQUIREMENT	124
8.2 EUT ANTENNA	124

Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
SHATBL2212018W01	Rev. 01	Initial issue of report	Feb. 11, 2023

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.247 (a)(2)	6dB&99% Bandwidth	PASS	--
15.247 (b)(3)	Output Power	PASS	--
15.247(d) & 15.209 & 15.205	Radiated Spurious Emission	PASS	--
§15.247(d) & 15.205	Conducted Spurious & Band Edge Emission	PASS	--
15.247 (e)	Power Spectral Density	PASS	--
15.205	Restricted bands of operation	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.

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Optical Network Terminal (ONT)	
Trade Name	DZS	
Model Name	2466GN	
Series Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a Optical Network Terminal (ONT)	
	Operation Frequency:	802.11b/g/n/ac/ax(20MHz): 2412~2462MHz 802.11n/ac/ax(40MHz):2422~2452MHz
	Modulation Type:	802.11b: DBPSK, DQPSK, CCK 802.11g: BPSK,QPSK,16/64-QAM 802.11n: BPSK,QPSK,16/64-QAM 802.11ac:BPSK,QPSK,16/64/256-QAM 802.11ax:BPSK,QPSK,16/64/256/1024-QAM
	Antenna Type:	2x2 internal antenna
	Antenna Gain (dBi):	Ant. 0: 4.57dBi; Ant. 1: 4.17dBi
	Based on the application, features, or specification exhibited in User Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification,please refer to the User Manual.	
Channel List	Please refer to the Note 2.	
Adapter	Model1: RD1202000-C55-154MG Brand: RUIDE Input: 100-240V AC · 50/60Hz,1.0A MAX Output:DC12V 2A Model2: TPA289-24120-US Brand:TOPOW Input: 100-240V AC · 50/60Hz,0.7A Output:DC 12 V, 2A	
Battery	N/A	
Hardware version number	V2.0	
Software version number	znid-13723	
Connecting I/O Port(s)	Please refer to the User's Manual	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.

Operation Frequency of channel			
802.11b/g/n/ax/ac(20MHz)		Channel List for 802.11n/ax/ac(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	N/A	N/A
09	2452	N/A	N/A
10	2457	N/A	N/A
11	2462	N/A	N/A

REMARK:

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

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	DG(dBi)	Note
0	N/A	N/A	2x2 internal antenna	N/A	4.57dBi	7.38dBi	WLAN ANT
1	N/A	N/A	2x2 internal antenna	N/A	4.17dBi		WLAN ANT

2.2 DESCRIPTION OF THE TEST MODES

Test Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1 MIMO	1 Mbps
Mode 2	TX IEEE 802.11b CH6 MIMO	1 Mbps
Mode 3	TX IEEE 802.11 b CH11 MIMO	1 Mbps
Mode 4	TX IEEE 802.11g CH1 MIMO	6 Mbps
Mode 5	TX IEEE 802.11g CH6 MIMO	6 Mbps
Mode 6	TX IEEE 802.11g CH11 MIMO	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1 MIMO	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6 MIMO	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11 MIMO	MCS 0
Mode 10	TX IEEE 802.11n HT40 CH3 MIMO	MCS 0
Mode 11	TX IEEE 802.11n HT40 CH6 MIMO	MCS 0
Mode 12	TX IEEE 802.11n HT40 CH9 MIMO	MCS 0
Mode 13	TX IEEE 802.11ax HT20 CH1 MIMO	MCS 0
Mode 14	TX IEEE 802.11ax HT20 CH6 MIMO	MCS 0
Mode 15	TX IEEE 802.11ax HT20 CH11 MIMO	MCS 0
Mode 16	TX IEEE 802.11ax HT40 CH3 MIMO	MCS 0
Mode 17	TX IEEE 802.11ax HT40 CH6 MIMO	MCS 0
Mode 18	TX IEEE 802.11ax HT40 CH9 MIMO	MCS 0
Mode 19	TX IEEE 802.11ac HT20 CH1 MIMO	MCS 0
Mode 20	TX IEEE 802.11ac HT20 CH6 MIMO	MCS 0
Mode 21	TX IEEE 802.11ac HT20 CH11 MIMO	MCS 0
Mode 22	TX IEEE 802.11ac HT40 CH3 MIMO	MCS 0
Mode 23	TX IEEE 802.11ac HT40 CH6 MIMO	MCS 0
Mode24	TX IEEE 802.11ac HT40 CH9 MIMO	MCS 0

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

REMARKS:

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

Conducted Emission

Test Mode	Description
Mode25	Keeping WIFI TX + WLAN Link (RD1202000-C55-154MG)
Mode26	Keeping WIFI TX + WLAN Link (TPA289-24120-US)

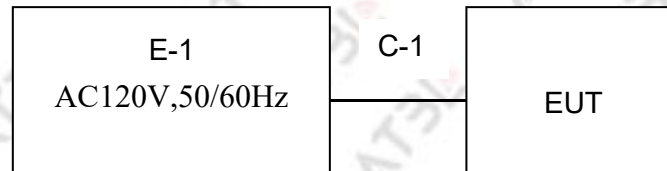
2.3 TEST SOFTWARE AND POWER LEVEL

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

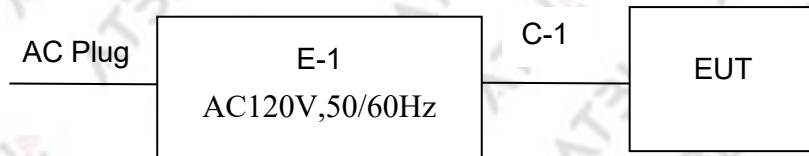
RF Function	Ant No.	Mode Or Modulation type	Ant Gain(dBi)	Power Class	Software For Testing
WIFI(2.4G)	0	802.11b/g/n20/n40/ax20/ax40/ac20/ac40	4.57	default	QRCT
WIFI(2.4G)	1	802.11b/g/n20/n40/ax20/ax40/ac20/ac40	4.17	default	QRCT

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation Test Set



Conduction Test Set



2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Adapter	RUIDE	RD1202000-C55-154MG	N/A	N/A
C-1	DC Cable	N/A	N/A	150cm	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
N/A	N/A	N/A	N/A	N/A	N/A

Note:

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

2.6 LABORATORY INFORMATION

Company Name:	Shanghai ATBL Technology Co., Ltd.
Address:	Building 8, No. 160, Basheng Road, Waigaoqiao Free Trade Zone, Pudong New Area, Shanghai
Telephone:	+86(0)21-51298625
The FCC Registration Number (FRN):	0031025281
A2LA Number:	6184.01
CNAS Number:	CNAS L14531

2.7 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	$\pm 0.958\text{dB}$
2	Conducted spurious emissions	$\pm 2.988\text{dB}$
3	All emissions, radiated 30MHz-1GHz	$\pm 2.50\text{dB}$
4	All emissions, radiated 1GHz-18GHz	$\pm 3.51\text{dB}$
5	Occupied bandwidth	$\pm 2.320\text{Hz}$
6	Power spectral density	$\pm 0.886\text{dB}$

2.8 EQUIPMENTS LIST

2.8.1 Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Management number	Calibrated until
Test Receiver	R&S	ESCI	100469	SHATBL-E003	2023.09.27
Spectrum Analyzer	Agilent	N9020A	MY50200811	SHATBL-E017	2023.09.27
Bilog Antenna	SCHWARZBEC K	VLUB 9168	01174	SHATBL-E008	2023.09.27
Horn Antenna	SCHWARZBEC K	BBHA 9120D	02014	SHATBL-E009	2023.09.27
Pre-Amplifier (0.1M-3GHz)	JPT	JPA-10M1G35	210101000350 01	SHATBL-E005	2023.09.27
Pre-Amplifier (1G-18GHz)	JPT	JPA0118-55-30 3A	191000180005 5000	SHATBL-E006	2023.09.27
Temperature & Humidity	DeLi	DeLi	N/A	SHATBL-E016	2023.09.27
Antenna/Turntable Controller	Brilliant	N/A	N/A	SHATBL-E007	N/A
Test SW	FALA	EMC-RI(Ver.4A2)		SHATBL-E046	N/A
Active ring antenna 9kHz-30MHz	Daze	ZN30900C	20077	SHATBL-E042	2023.09.27
Horn Antenna With Amplifier(18G-40G)	COM-POWER Made in USA	AH-1840	10100008	SHATBL-E043	2023.09.27

2.8.2 RF Connected Test

Kind of Equipment	Manufactur er	Type No.	Serial No.	equipment number	Calibrated until
MIMO Power measurement test Set	DARE	RPR3006W	16100054SN0 16	SHATBL-W006	2023.09.27
			RPR6W-2000 1005	SHATBL-W013	2023.09.27
Signal Analyzer	Agilent	N9020A	MY57300196	SHATBL-W004	2023.09.27
Signal Generator	Agilent	N5182B	MY46240556	SHATBL-W005	2023.09.27
Wireless Communications Test Set	R&S	CMW500	101331	SHATBL-W007	2023.09.27
Temperature & Humidity	Deli	deli	N/A	SHATBL-W011	2023.09.27
Attenuator	Agilent	8494B	DC-18G	SHATBL-W009	2023.09.27
Attenuator	Agilent	8496B	DC-18G	SHATBL-W010	2023.09.27
power splitter	MNK	MPD-DC/6-2 S	62315 G51	SHATBL-W015	2023.09.27
			62315 G52	SHATBL-W016	2023.09.27
Filter	Chengdu kangmaiwei	ZBSF-C2400 -2483.5-T3	N/A	SHATBL-W021	N/A
Constant temperature and humidity box	KSON	THS-B6C-15 0	6159K	SHATBL-W019	2024.01.16
Test SW	FALA	LZ-RF(Ver.LzRF-03A3.1)		SHATBL-W020	N/A

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Conducted Emissionlimit (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.

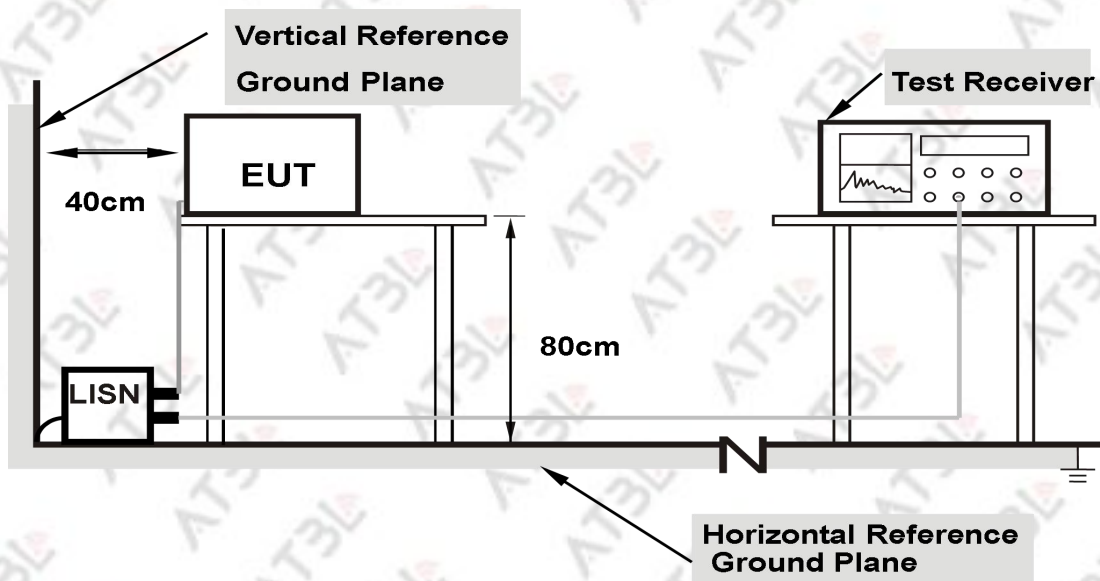
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 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.

3.1.4 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.

3.1.5 TEST RESULT

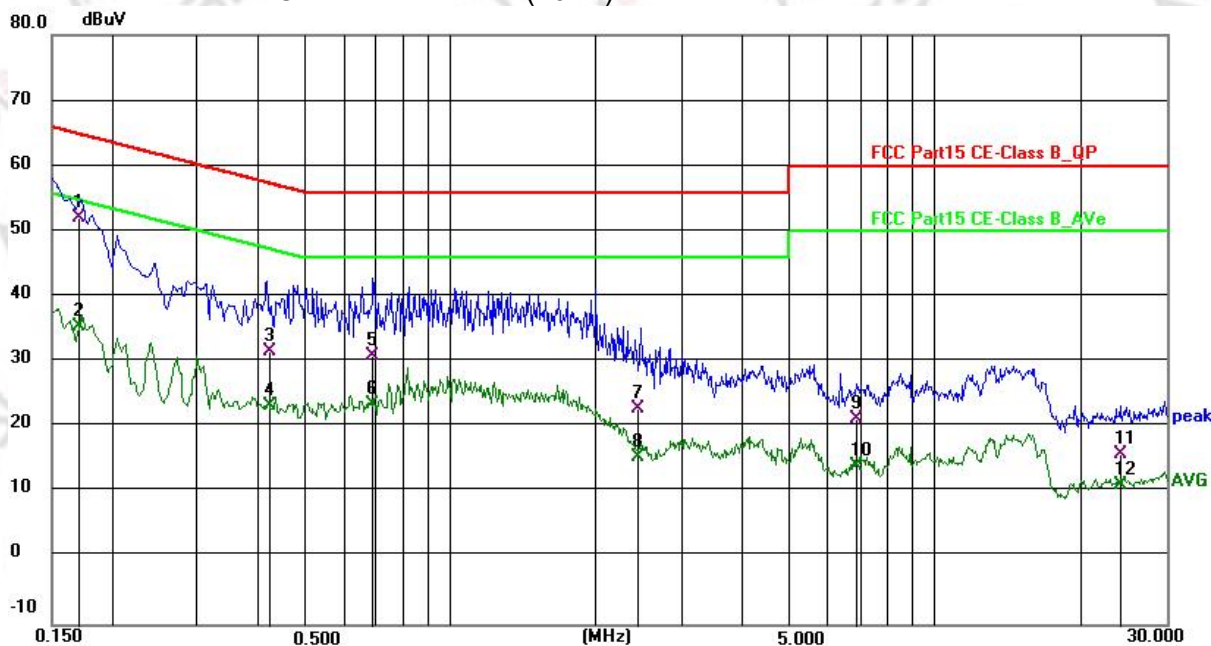
Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 25		

MODEL1: RD1202000-C55-154MG

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1710	41.41	10.71	52.12	64.91	-12.79	QP
2	0.1710	24.87	10.71	35.58	54.91	-19.33	AVG
3	0.4215	21.15	10.67	31.82	57.42	-25.60	QP
4	0.4215	12.89	10.67	23.56	47.42	-23.86	AVG
5	0.6855	20.46	10.69	31.15	56.00	-24.85	QP
6	0.6855	13.01	10.69	23.70	46.00	-22.30	AVG
7	2.4474	12.16	10.79	22.95	56.00	-33.05	QP
8	2.4474	4.83	10.79	15.62	46.00	-30.38	AVG
9	6.9135	10.60	10.75	21.35	60.00	-38.65	QP
10	6.9135	3.60	10.75	14.35	50.00	-35.65	AVG
11	24.0421	4.96	11.15	16.11	60.00	-43.89	QP
12	24.0421	0.13	11.15	11.28	50.00	-38.72	AVG

Remark:

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

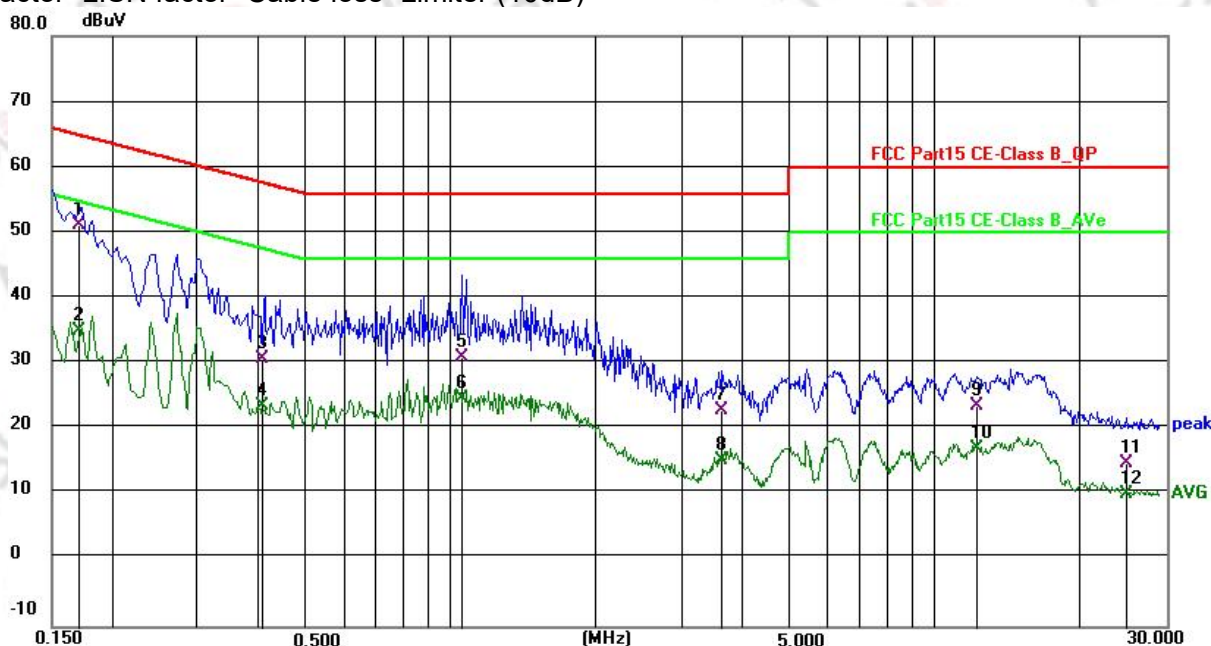


Temperature:	25°C	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 25		

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1709	40.82	10.41	51.23	64.92	-13.69	QP
2	0.1709	24.67	10.41	35.08	54.92	-19.84	AVG
3	0.4079	20.61	10.28	30.89	57.69	-26.80	QP
4	0.4079	13.31	10.28	23.59	47.69	-24.10	AVG
5	1.0614	20.78	10.36	31.14	56.00	-24.86	QP
6	1.0614	14.51	10.36	24.87	46.00	-21.13	AVG
7	3.6386	12.50	10.43	22.93	56.00	-33.07	QP
8	3.6386	5.00	10.43	15.43	46.00	-30.57	AVG
9	12.1983	13.17	10.50	23.67	60.00	-36.33	QP
10	12.1983	6.60	10.50	17.10	50.00	-32.90	AVG
11	24.8197	3.82	11.09	14.91	60.00	-45.09	QP
12	24.8197	-0.82	11.09	10.27	50.00	-39.73	AVG

Remark:

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



Temperature:	25°C	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 26		

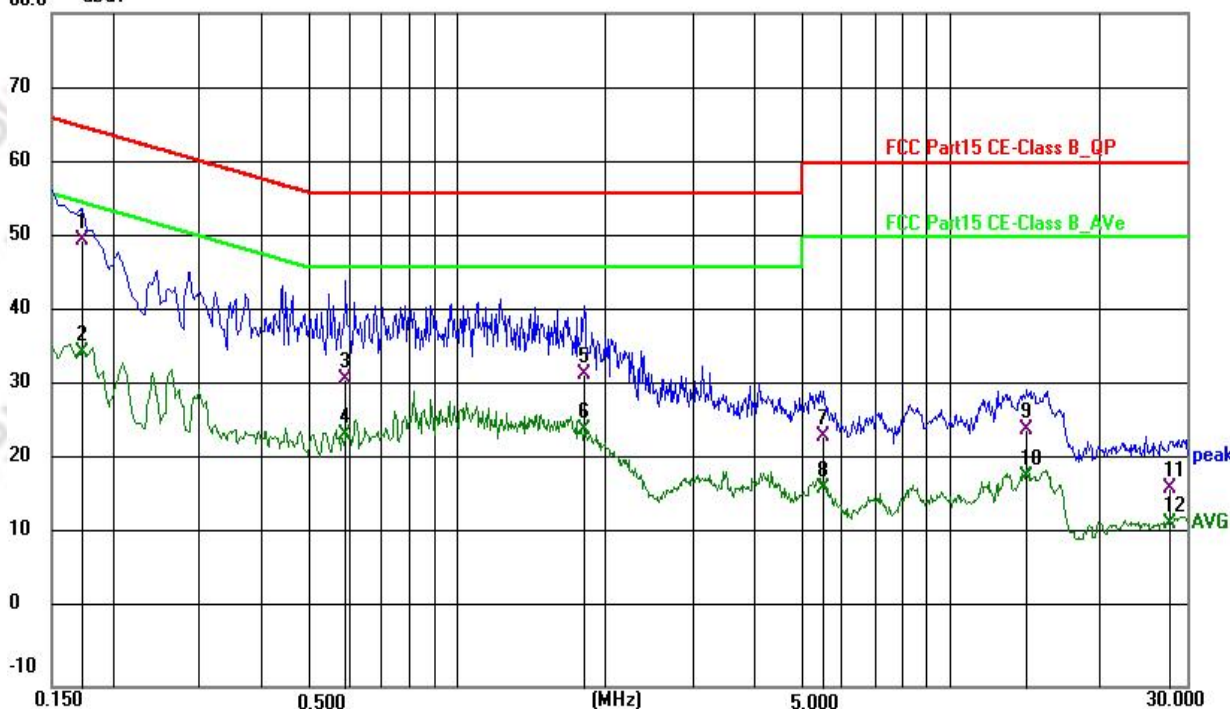
MODEL2: TPA289-24120-US

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1731	38.91	10.71	49.62	64.81	-15.19	QP
2	0.1731	23.89	10.71	34.60	54.81	-20.21	AVG
3	0.5936	20.45	10.67	31.12	56.00	-24.88	QP
4	0.5936	13.01	10.67	23.68	46.00	-22.32	AVG
5	1.8015	20.91	10.77	31.68	56.00	-24.32	QP
6	1.8015	13.66	10.77	24.43	46.00	-21.57	AVG
7	5.4945	12.60	10.80	23.40	60.00	-36.60	QP
8	5.4945	5.70	10.80	16.50	50.00	-33.50	AVG
9	14.2499	13.48	10.80	24.28	60.00	-35.72	QP
10	14.2499	7.20	10.80	18.00	50.00	-32.00	AVG
11	27.9734	5.21	11.28	16.49	60.00	-43.51	QP
12	27.9734	0.49	11.28	11.77	50.00	-38.23	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)

80.0 dBuV



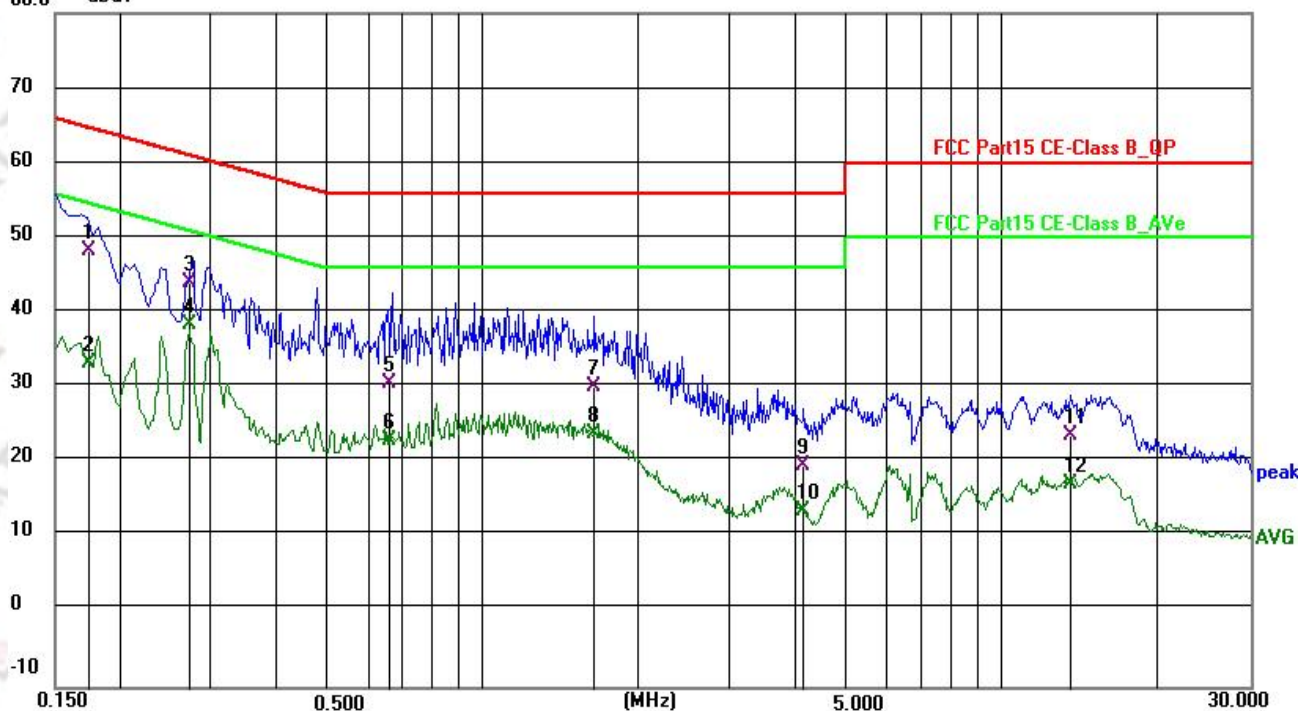
Temperature:	25°C	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 26		

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1746	37.82	10.41	48.23	64.74	-16.51	QP
2	0.1746	22.92	10.41	33.33	54.74	-21.41	AVG
3	0.2720	33.67	10.36	44.03	61.06	-17.03	QP
4	0.2720	28.22	10.36	38.58	51.06	-12.48	AVG
5	0.6610	20.27	10.34	30.61	56.00	-25.39	QP
6	0.6610	12.65	10.34	22.99	46.00	-23.01	AVG
7	1.6400	19.73	10.38	30.11	56.00	-25.89	QP
8	1.6400	13.50	10.38	23.88	46.00	-22.12	AVG
9	4.1480	9.27	10.43	19.70	56.00	-36.30	QP
10	4.1480	3.10	10.43	13.53	46.00	-32.47	AVG
11	13.4971	13.18	10.57	23.75	60.00	-36.25	QP
12	13.4971	6.67	10.57	17.24	50.00	-32.76	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)

80.0 dBuV



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 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) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-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 (Above 1000MHz)

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

FCC:

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	2310MHz to 2500MHz
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

3.2.2 TEST PROCEDURE

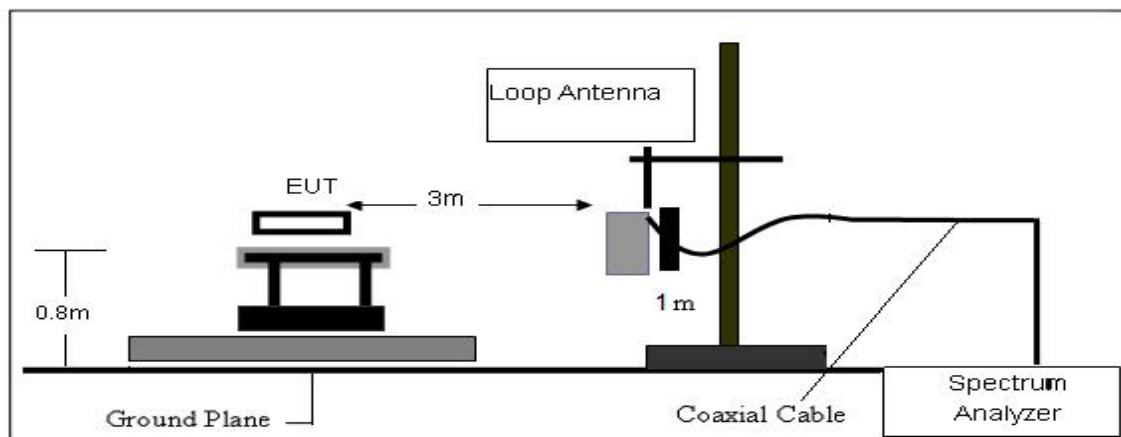
- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- 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.
- 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.
- 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

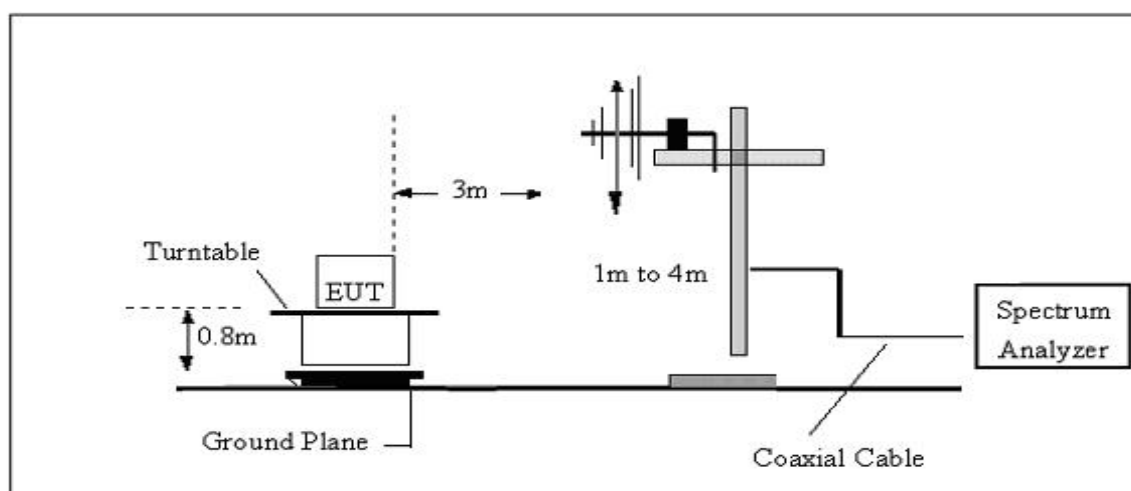
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 TEST SETUP

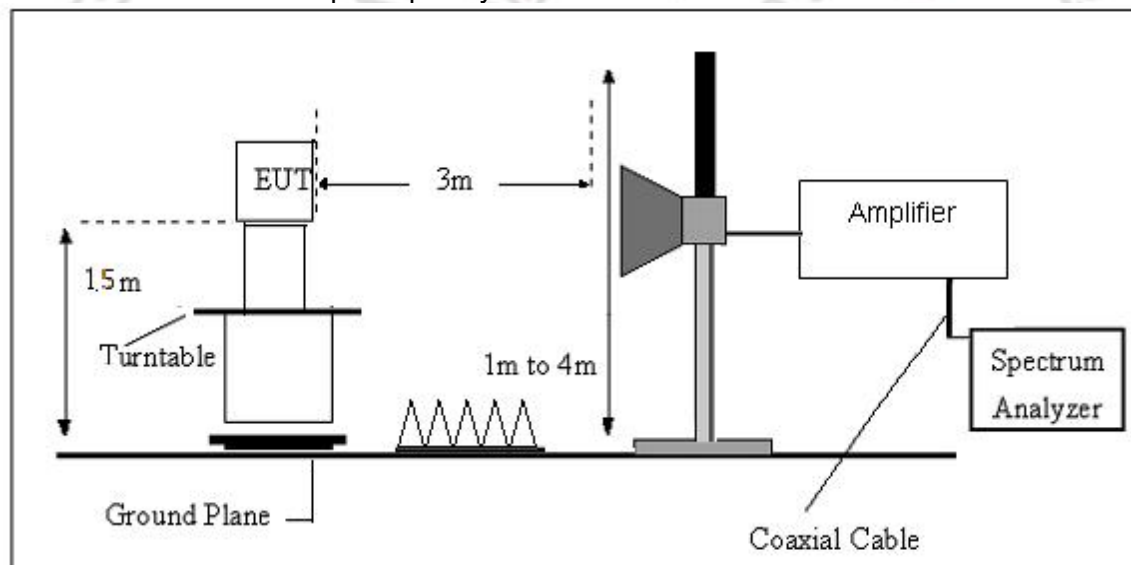
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.4 EUT OPERATING CONDITIONS

Please refer to section 3.1.4 of this report.

3.2.5 FIELD STRENGTH CALCULATION

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

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

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

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

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

3.2.6 TEST RESULTS(RADIATED SPURIOUS EMISSIONS) (9kHz-30MHz)

Temperature:	25.0℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Polarization:	--
Test Mode:	TX Mode		

Note:

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

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

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

TEST RESULTS

Remark:

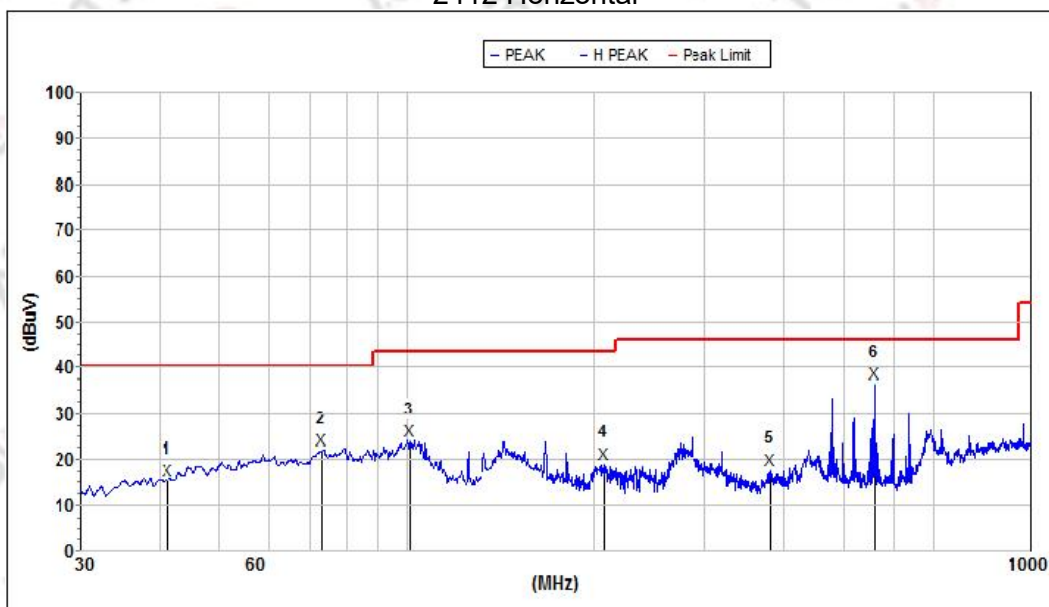
1. The all data rate modes had been test, but only worse test data was recorded in the test report.
2. Other 18G-25G Emission detected are more than 20dB below the limit.therefore they are not reported.

Radiated Emissions:

30MHz - 1000MHz

Temperature:	25.0℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11b		

2412 Horizontal

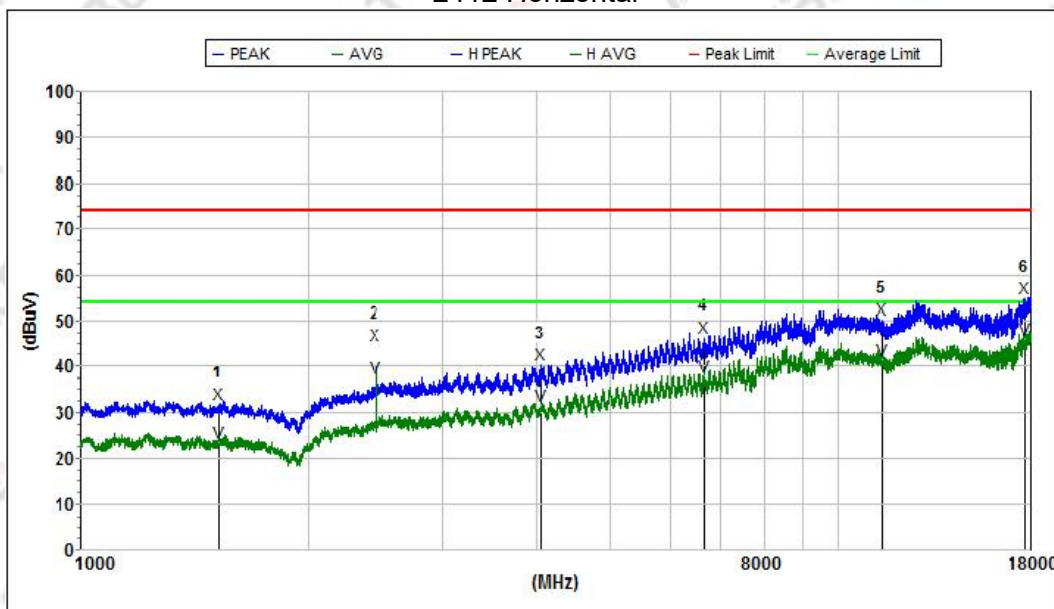


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	41.276534	15.5	40.0	24.5	14.0	32.4	0.8	H
2	73.102538	22.2	40.0	17.8	10.3	32.8	0.9	H
3	101.288509	24.0	43.5	19.5	10.3	32.9	1.4	H
4	206.759753	19.2	43.5	24.3	10.2	32.8	2.4	H
5	380.580827	17.7	46.0	28.3	13.7	32.4	2.7	H
6	559.710646	36.6	46.0	9.4	15.5	32.4	3.1	H

1GHz~18GHz

Temperature:	25.0℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11b		

2412 Horizontal

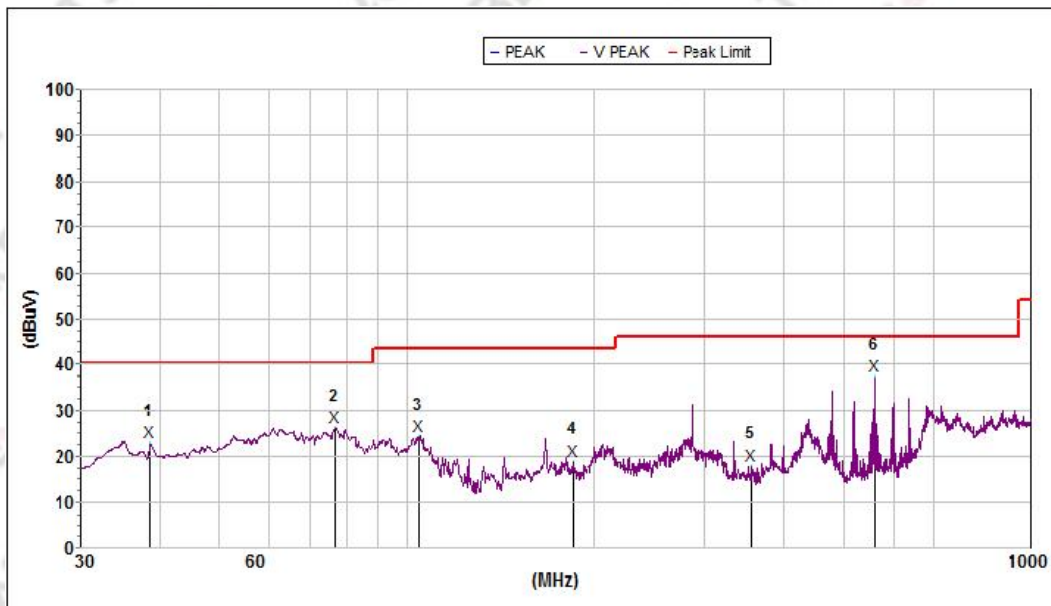


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1521.900000	31.9	74.0	42.1	25.4	61.3	2.5	H
2	2451.800000	44.6	74.0	29.4	27.5	59.1	2.8	H
3	4058.300000	40.4	74.0	33.6	30.8	58.3	3.3	H
4	6671.200000	46.5	74.0	27.5	35.7	58.1	4.3	H
5	11443.950000	50.3	74.0	23.7	39.1	61.1	5.8	H
6	17691.450000	54.9	74.0	19.1	40.4	57.9	6.9	H
Avg								
1	1521.900000	23.2	54.0	30.8	25.4	61.3	2.5	H
2	2451.800000	37.5	54.0	16.5	27.5	59.1	2.8	H
3	4058.300000	31.6	54.0	22.4	30.8	58.3	3.3	H
4	6671.200000	37.9	54.0	16.1	35.7	58.1	4.3	H
5	11443.950000	41.4	54.0	12.6	39.1	61.1	5.8	H
6	17691.450000	45.9	54.0	8.1	40.4	57.9	6.9	H

30MHz~1GHz

Temperature:	25.0℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11b		

2412 Vertical

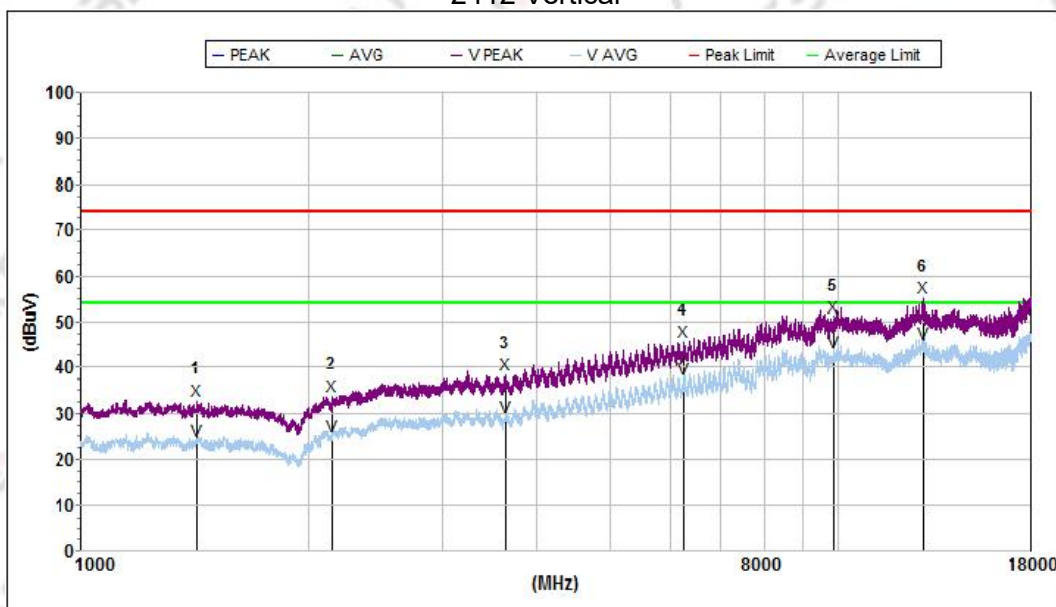


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	38.683874	23.1	40.0	16.9	13.9	32.3	0.8	V
2	76.512057	26.2	40.0	13.8	9.8	32.9	0.9	V
3	104.536051	24.4	43.5	19.1	10.6	32.9	1.4	V
4	184.166657	19.0	43.5	24.5	11.2	32.8	2.0	V
5	356.675804	18.1	46.0	27.9	14.0	32.5	2.7	V
6	559.710646	37.6	46.0	8.4	17.6	32.4	3.1	V

1GHz~18GHz

Temperature:	25.0℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11b		

2412 Vertical

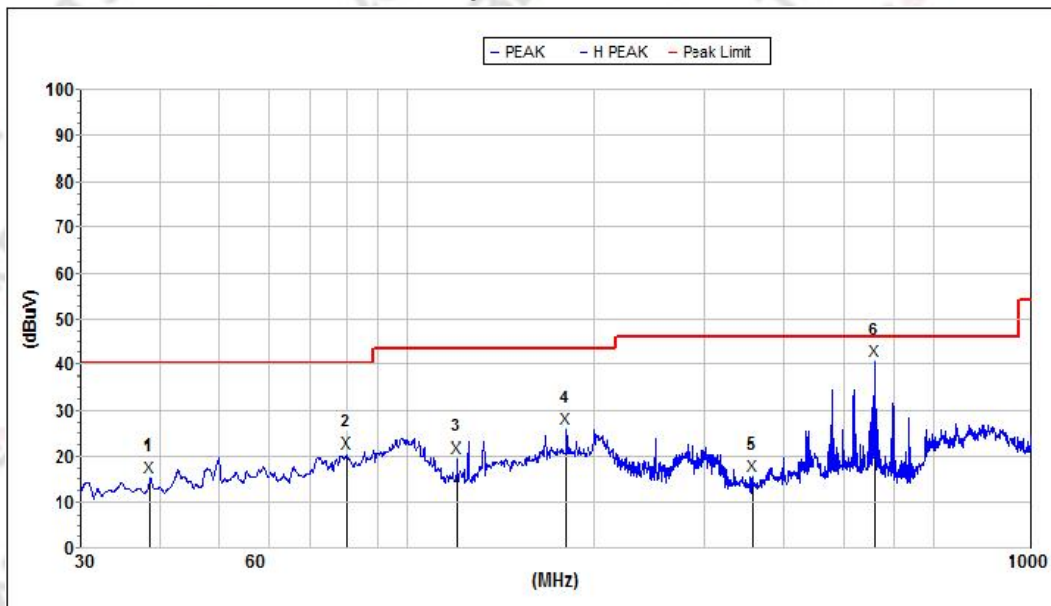


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1423.300000	32.8	74.0	41.2	25.5	61.4	2.4	V
2	2147.500000	34.0	74.0	40.0	27.2	60.7	2.7	V
3	3641.800000	38.6	74.0	35.4	29.7	59.0	3.2	V
4	6253.850000	45.7	74.0	28.3	34.2	58.0	4.2	V
5	9880.800000	51.0	74.0	23.0	38.3	59.7	5.4	V
6	13013.050000	55.3	74.0	18.7	39.8	57.8	6.2	V
Avg								
1	1423.300000	24.1	54.0	29.9	25.5	61.4	2.4	V
2	2147.500000	25.1	54.0	28.9	27.2	60.7	2.7	V
3	3641.800000	29.2	54.0	24.8	29.7	59.0	3.2	V
4	6253.850000	37.5	54.0	16.5	34.2	58.0	4.2	V
5	9880.800000	43.4	54.0	10.6	38.3	59.7	5.4	V
6	13013.050000	45.4	54.0	8.6	39.8	57.8	6.2	V

30MHz~1GHz

Temperature:	25.0°C	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11b		

2437 Horizontal

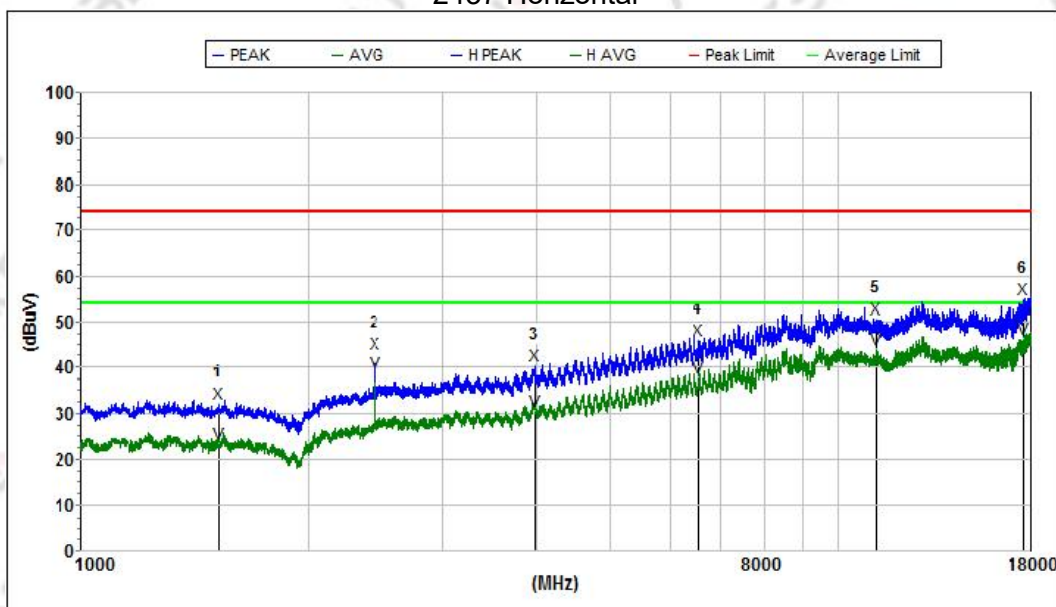


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	38.683874	15.5	40.0	24.5	13.9	32.3	0.8	H
2	79.940317	20.8	40.0	19.2	9.3	32.9	0.9	H
3	120.065933	19.7	43.5	23.8	12.2	32.9	1.4	H
4	179.701149	26.1	43.5	17.4	11.7	32.8	1.9	H
5	357.301705	15.8	46.0	30.2	13.5	32.5	2.7	H
6	559.710646	40.9	46.0	5.1	15.5	32.4	3.1	H

1GHz~18GHz

Temperature:	25.0℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11n40		

2437 Horizontal

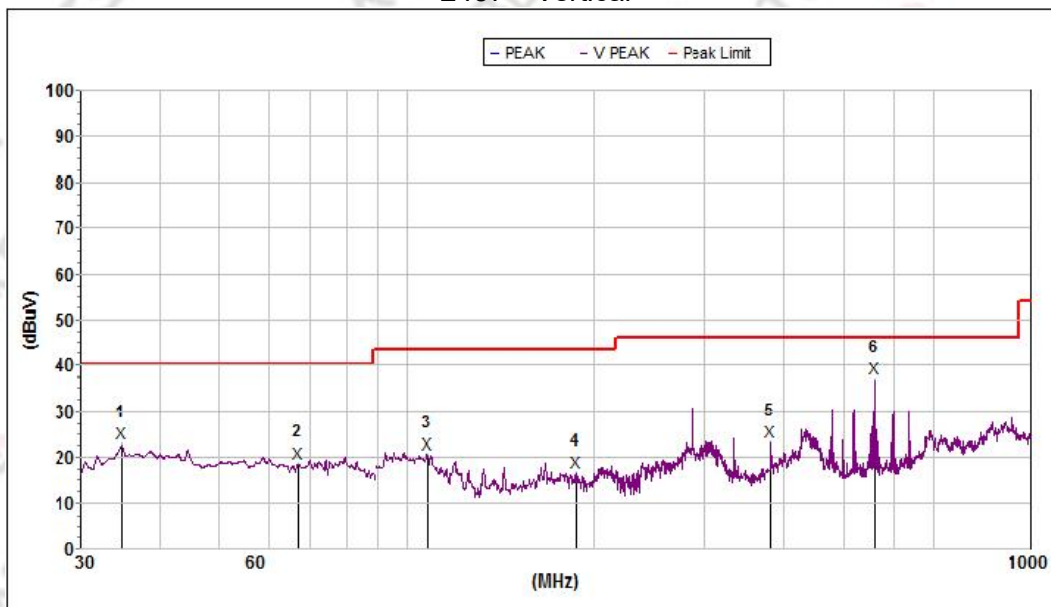


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1523.600000	32.3	74.0	41.7	25.4	61.3	2.5	H
2	2445.850000	43.1	74.0	30.9	27.5	59.2	2.8	H
3	3983.500000	40.4	74.0	33.6	30.8	58.4	3.3	H
4	6558.150000	46.1	74.0	27.9	35.3	58.0	4.2	H
5	11250.150000	50.7	74.0	23.3	39.0	61.1	5.7	H
6	17591.150000	54.8	74.0	19.2	39.8	58.0	6.9	H
Avg								
1	1523.600000	23.3	54.0	30.7	25.4	61.3	2.5	H
2	2445.850000	38.9	54.0	15.1	27.5	59.2	2.8	H
3	3983.500000	30.7	54.0	23.3	30.8	58.4	3.3	H
4	6558.150000	37.7	54.0	16.3	35.3	58.0	4.2	H
5	11250.150000	44.0	54.0	10.0	39.0	61.1	5.7	H
6	17591.150000	46.3	54.0	7.7	39.8	58.0	6.9	H

30MHz~1GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11b		

2437 Vertical

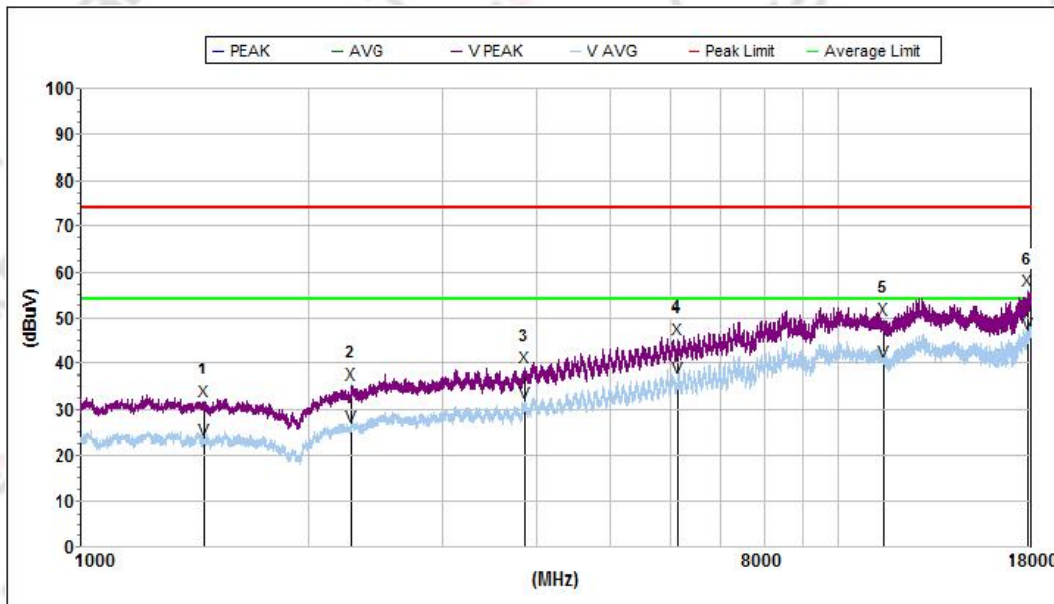


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	34.821189	23.0	40.0	17.0	13.4	32.2	0.8	V
2	66.849636	18.7	40.0	21.3	11.4	32.8	0.8	V
3	108.077039	20.7	43.5	22.8	10.9	32.9	1.4	V
4	186.440853	16.8	43.5	26.7	10.9	32.8	2.1	V
5	381.917698	23.4	46.0	22.6	14.4	32.4	2.7	V
6	559.710646	37.1	46.0	8.9	17.6	32.4	3.1	V

1GHz~18GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11b		

2437 Vertical

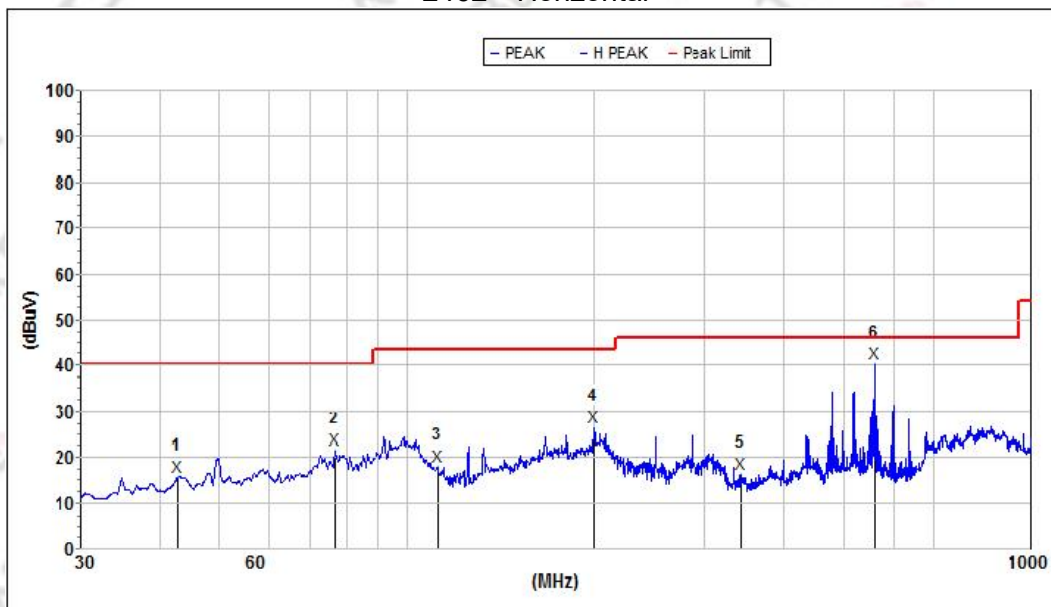


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1452.200000	31.8	74.0	42.2	25.5	61.4	2.4	V
2	2276.700000	35.4	74.0	38.6	27.2	60.1	2.8	V
3	3856.000000	39.3	74.0	34.7	30.6	58.7	3.2	V
4	6137.400000	45.3	74.0	28.7	34.0	58.0	4.1	V
5	11465.200000	49.6	74.0	24.4	39.1	61.1	5.8	V
6	17814.700000	55.8	74.0	18.2	41.2	57.8	7.0	V
Avg								
1	1452.200000	23.3	54.0	30.7	25.5	61.4	2.4	V
2	2276.700000	26.3	54.0	27.7	27.2	60.1	2.8	V
3	3856.000000	31.5	54.0	22.5	30.6	58.7	3.2	V
4	6137.400000	36.7	54.0	17.3	34.0	58.0	4.1	V
5	11465.200000	40.6	54.0	13.4	39.1	61.1	5.8	V
6	17814.700000	46.7	54.0	7.3	41.2	57.8	7.0	V

30MHz~1GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11b		

2462 Horizontal

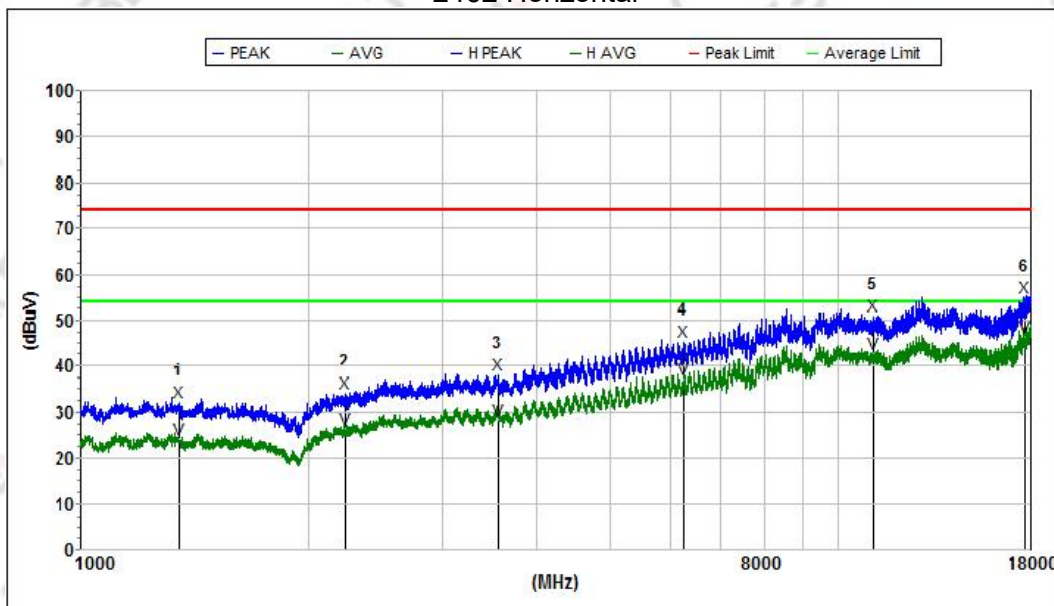


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	43.050457	15.9	40.0	24.1	13.9	32.5	0.8	H
2	76.512057	21.6	40.0	18.4	9.8	32.9	0.9	H
3	111.934052	18.1	43.5	25.4	11.3	32.9	1.4	H
4	199.985568	26.7	43.5	16.8	9.9	32.8	2.3	H
5	342.578847	16.5	46.0	29.5	13.3	32.5	2.7	H
6	559.710646	40.5	46.0	5.5	15.5	32.4	3.1	H

1GHz~18GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11b		

2462 Horizontal

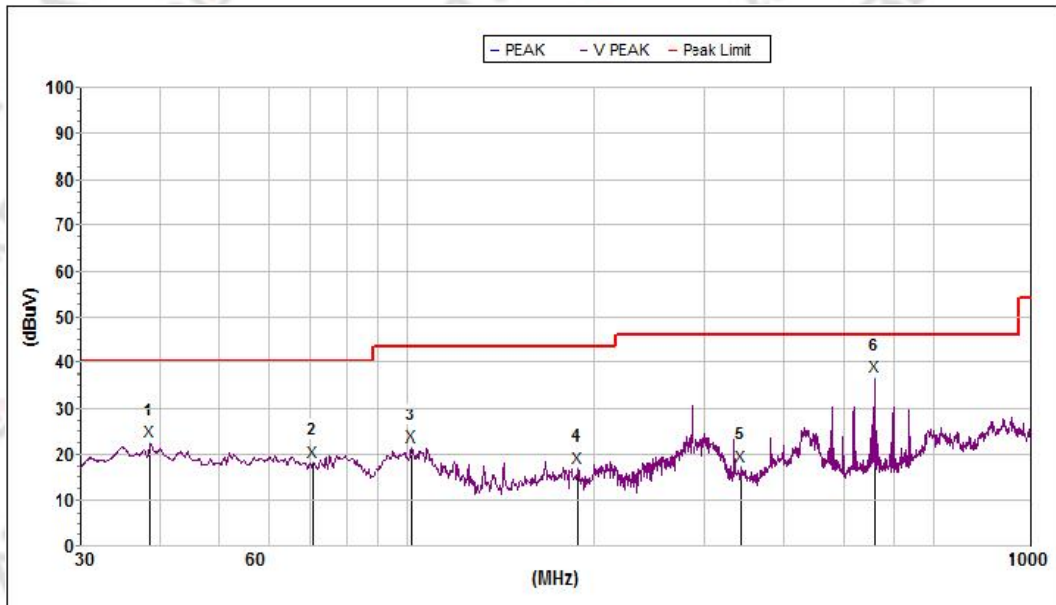


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/ m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1347.650000	32.1	74.0	41.9	25.7	61.2	2.3	H
2	2229.100000	34.2	74.0	39.8	27.2	60.4	2.8	H
3	3561.050000	38.0	74.0	36.0	29.5	59.0	3.2	H
4	6245.350000	45.4	74.0	28.6	34.2	58.0	4.2	H
5	11150.700000	51.1	74.0	22.9	39.0	61.1	5.7	H
6	17665.100000	55.0	74.0	19.0	40.3	58.0	6.9	H
Avg								
1	1347.650000	23.9	54.0	30.1	25.7	61.2	2.3	H
2	2229.100000	26.3	54.0	27.7	27.2	60.4	2.8	H
3	3561.050000	28.4	54.0	25.6	29.5	59.0	3.2	H
4	6245.350000	37.3	54.0	16.7	34.2	58.0	4.2	H
5	11150.700000	42.6	54.0	11.4	39.0	61.1	5.7	H
6	17665.100000	46.3	54.0	7.7	40.3	58.0	6.9	H

30MHz~1GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11b		

2462 Vertical

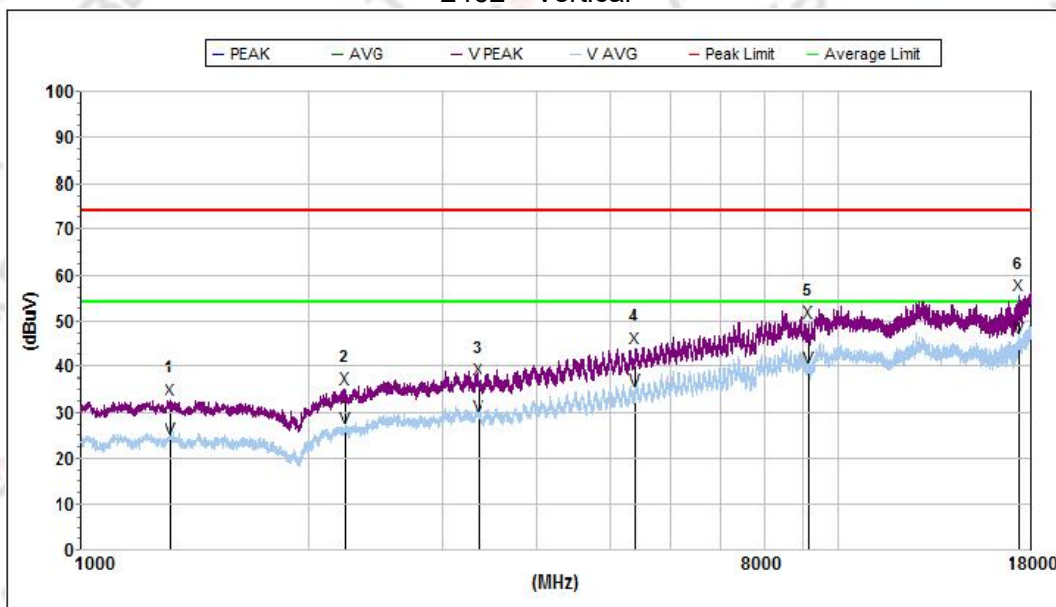


Mk.	Freq.(MHz)	Level (dBuV/ m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	38.683874	22.7	40.0	17.3	13.9	32.3	0.8	V
2	70.707439	18.5	40.0	21.5	10.7	32.8	0.8	V
3	101.644307	21.6	43.5	21.9	10.3	32.9	1.4	V
4	187.424085	17.1	43.5	26.4	10.8	32.8	2.1	V
5	341.978737	17.3	46.0	28.7	13.7	32.5	2.7	V
6	559.710646	36.7	46.0	9.3	17.6	32.4	3.1	V

1GHz~18GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11b		

2462 Vertical

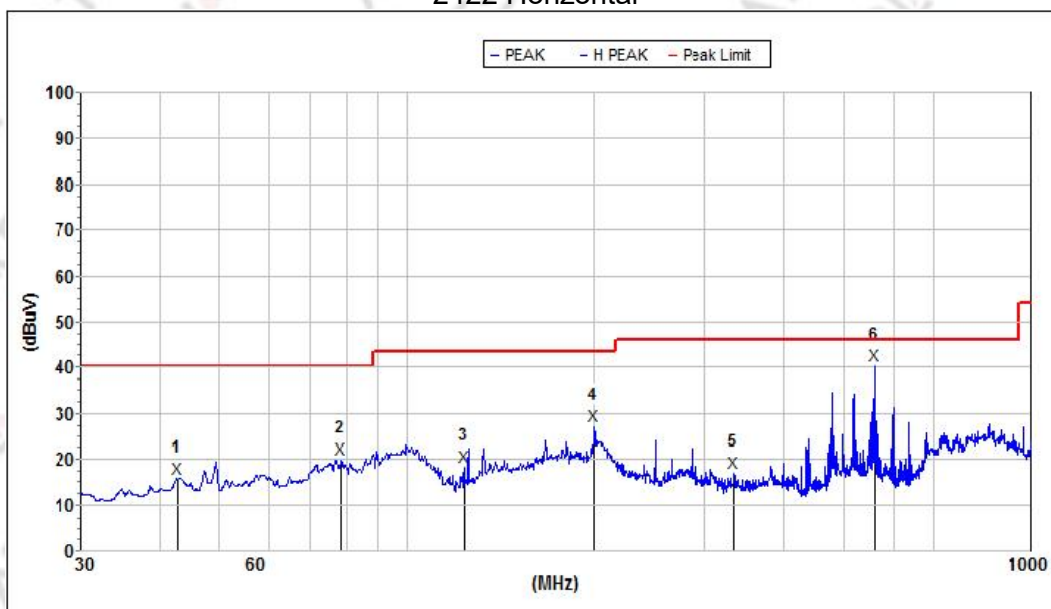


Mk.	Freq.(MHz)	Level (dBu V/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1315.350000	33.0	74.0	41.0	25.8	61.1	2.3	V
2	2229.100000	35.3	74.0	38.7	27.2	60.4	2.8	V
3	3349.400000	37.2	74.0	36.8	29.5	58.2	3.1	V
4	5403.850000	44.0	74.0	30.0	32.7	58.0	3.9	V
5	9149.800000	49.7	74.0	24.3	38.2	59.6	5.4	V
6	17367.600000	55.6	74.0	18.4	39.0	58.8	6.9	V
Avg								
1	1315.350000	24.2	54.0	29.8	25.8	61.1	2.3	V
2	2229.100000	26.6	54.0	27.4	27.2	60.4	2.8	V
3	3349.400000	29.2	54.0	24.8	29.5	58.2	3.1	V
4	5403.850000	34.8	54.0	19.2	32.7	58.0	3.9	V
5	9149.800000	39.8	54.0	14.2	38.2	59.6	5.4	V
6	17367.600000	46.3	54.0	7.7	39.0	58.8	6.9	V

30MHz - 1000MHz

Temperature:	25.0°C	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11n40		

2422 Horizontal

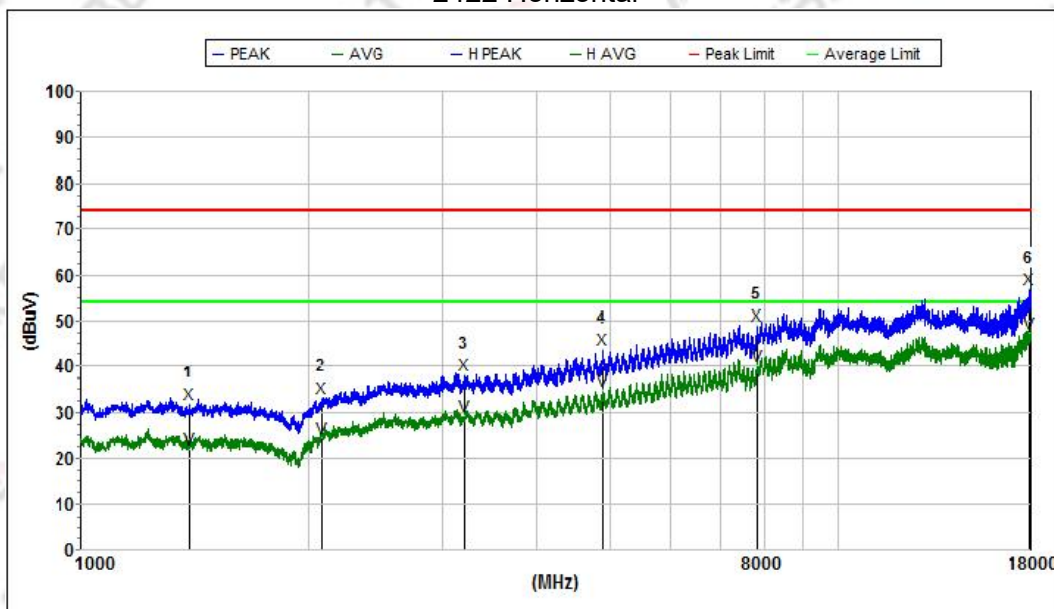


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	42.975044	15.8	40.0	24.2	13.9	32.5	0.8	H
2	78.413354	20.0	40.0	20.0	9.5	32.9	0.9	H
3	123.049527	18.3	43.5	25.2	12.4	32.9	1.4	H
4	199.985568	27.4	43.5	16.1	9.9	32.8	2.3	H
5	334.272302	17.2	46.0	28.8	13.2	32.6	2.7	H
6	559.710646	40.4	46.0	5.6	15.5	32.4	3.1	H

1GHz~18GHz

Temperature:	25.0℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11n40		

2422 Horizontal

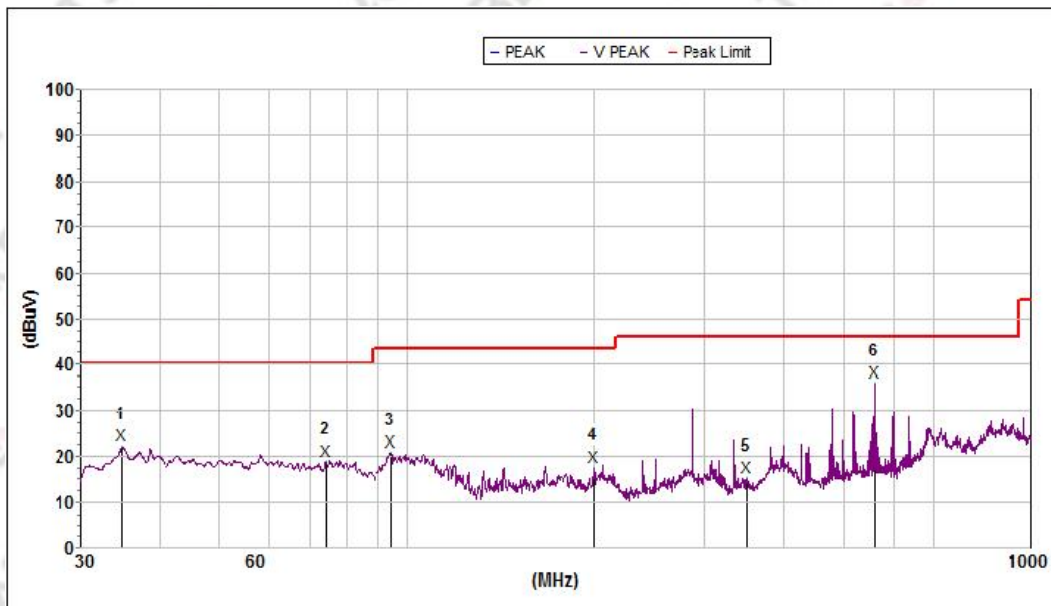


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1391.850000	31.9	74.0	42.1	25.6	61.4	2.4	H
2	2083.750000	33.3	74.0	40.7	27.0	60.9	2.7	H
3	3209.150000	38.1	74.0	35.9	29.7	58.5	3.0	H
4	4898.100000	43.8	74.0	30.2	32.7	57.4	3.6	H
5	7812.750000	49.0	74.0	25.0	36.9	57.5	4.8	H
6	17887.800000	57.0	74.0	17.0	41.7	57.7	7.0	H
Avg								
1	1391.850000	22.0	54.0	32.0	25.6	61.4	2.4	H
2	2083.750000	24.3	54.0	29.7	27.0	60.9	2.7	H
3	3209.150000	29.3	54.0	24.7	29.7	58.5	3.0	H
4	4898.100000	34.9	54.0	19.1	32.7	57.4	3.6	H
5	7812.750000	40.2	54.0	13.8	36.9	57.5	4.8	H
6	17887.800000	47.3	54.0	6.7	41.7	57.7	7.0	H

30MHz~1GHz

Temperature:	25.0℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11n40		

2422 Vertical

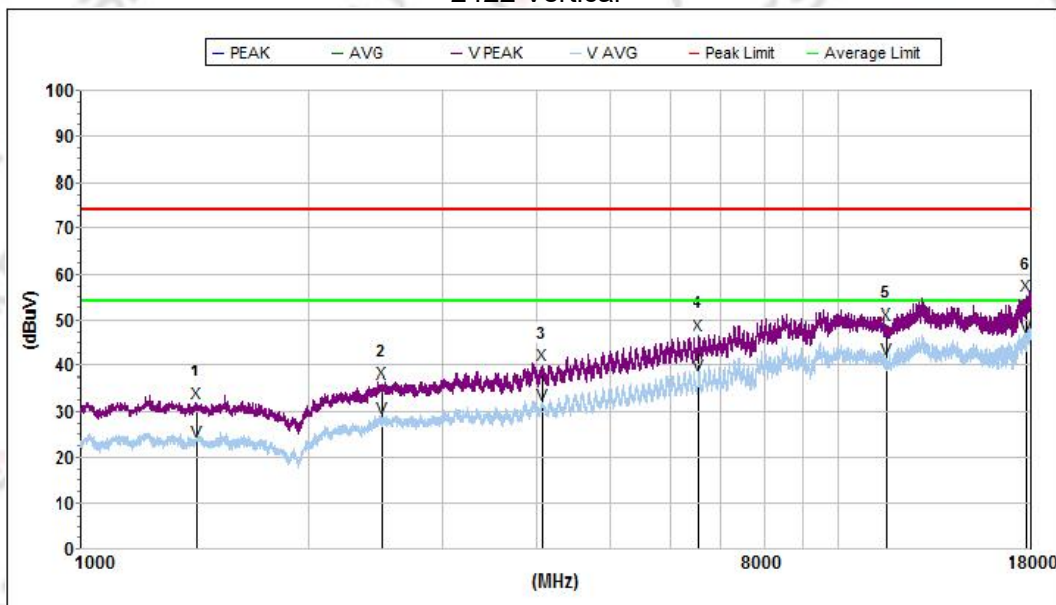


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	34.821189	22.4	40.0	17.6	13.4	32.2	0.8	V
2	74.005250	19.1	40.0	20.9	10.2	32.9	0.9	V
3	94.428394	21.2	43.5	22.3	9.8	32.9	1.2	V
4	199.635245	17.7	43.5	25.8	9.9	32.8	2.3	V
5	349.862839	15.4	46.0	30.6	13.8	32.5	2.7	V
6	559.710646	36.2	46.0	9.8	17.6	32.4	3.1	V

1GHz~18GHz

Temperature:	25.0℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11n40		

2422 Vertical

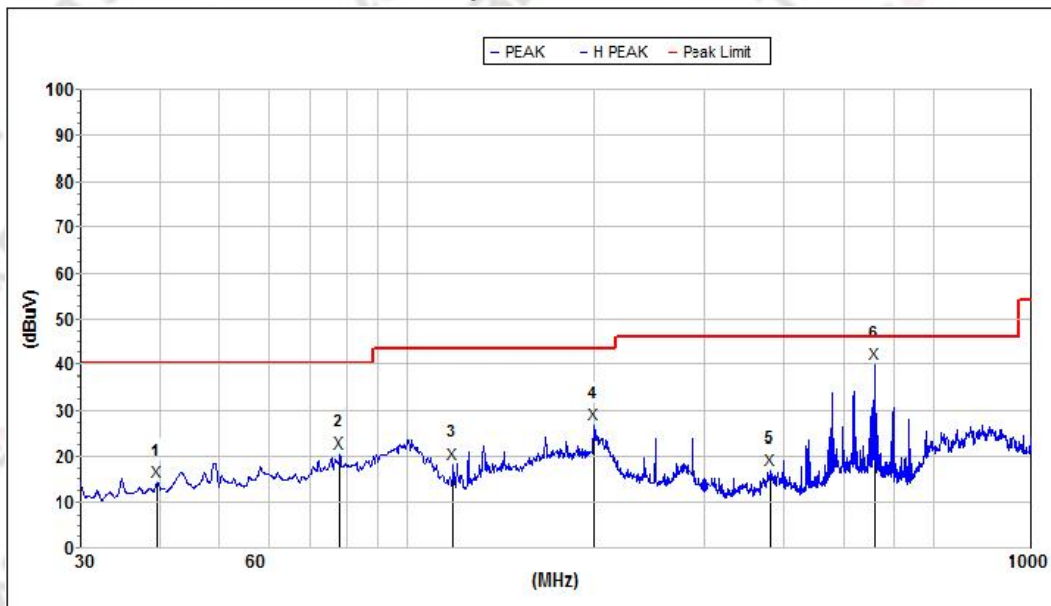


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1422.181270	32.0	74.0	42.0	25.5	61.4	2.4	V
2	2500.250000	36.2	74.0	37.8	27.7	58.8	2.8	V
3	4064.250000	40.1	74.0	33.9	30.8	58.3	3.3	V
4	6561.550000	46.6	74.0	27.4	35.3	58.0	4.2	V
5	11559.550000	49.1	74.0	24.9	39.1	60.9	5.8	V
6	17788.350000	55.4	74.0	18.6	41.0	57.8	7.0	V
Avg								
1	1422.181270	23.5	54.0	30.5	25.5	61.4	2.4	V
2	2500.250000	28.5	54.0	25.5	27.7	58.8	2.8	V
3	4064.250000	31.5	54.0	22.5	30.8	58.3	3.3	V
4	6561.550000	37.8	54.0	16.2	35.3	58.0	4.2	V
5	11559.550000	41.5	54.0	12.5	39.1	60.9	5.8	V
6	17788.350000	46.5	54.0	7.5	41.0	57.8	7.0	V

30MHz~1GHz

Temperature:	25.0°C	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11n40		

2437 Horizontal

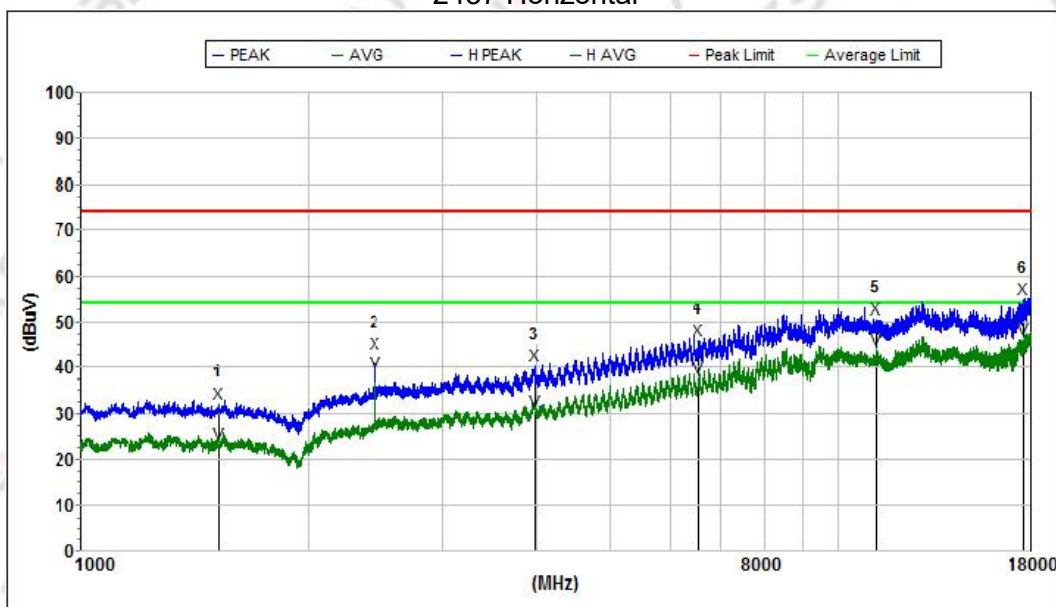


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	39.645155	14.5	40.0	25.5	14.0	32.4	0.8	H
2	78.001995	20.7	40.0	19.3	9.6	32.9	0.9	H
3	118.186220	18.3	43.5	25.2	12.0	32.9	1.4	H
4	199.635245	26.9	43.5	16.6	9.9	32.8	2.3	H
5	381.248677	17.1	46.0	28.9	13.7	32.4	2.7	H
6	559.710646	40.2	46.0	5.8	15.5	32.4	3.1	H

1GHz~18GHz

Temperature:	25.0℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11n40		

2437 Horizontal

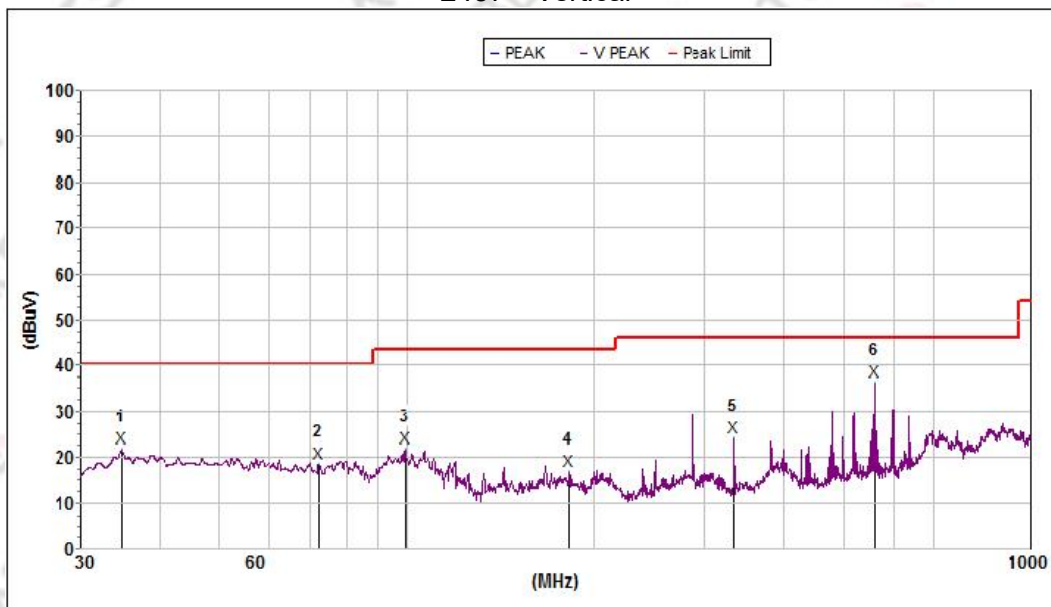


Mk.	Freq.(MHz)	Level (dBU V/m)	Limit (dBUV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1523.600000	32.3	74.0	41.7	25.4	61.3	2.5	H
2	2445.850000	43.1	74.0	30.9	27.5	59.2	2.8	H
3	3983.500000	40.4	74.0	33.6	30.8	58.4	3.3	H
4	6558.150000	46.1	74.0	27.9	35.3	58.0	4.2	H
5	11250.150000	50.7	74.0	23.3	39.0	61.1	5.7	H
6	17591.150000	54.8	74.0	19.2	39.8	58.0	6.9	H
Avg								
1	1523.600000	23.3	54.0	30.7	25.4	61.3	2.5	H
2	2445.850000	38.9	54.0	15.1	27.5	59.2	2.8	H
3	3983.500000	30.7	54.0	23.3	30.8	58.4	3.3	H
4	6558.150000	37.7	54.0	16.3	35.3	58.0	4.2	H
5	11250.150000	44.0	54.0	10.0	39.0	61.1	5.7	H
6	17591.150000	46.3	54.0	7.7	39.8	58.0	6.9	H

30MHz~1GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11n40		

2437 Vertical

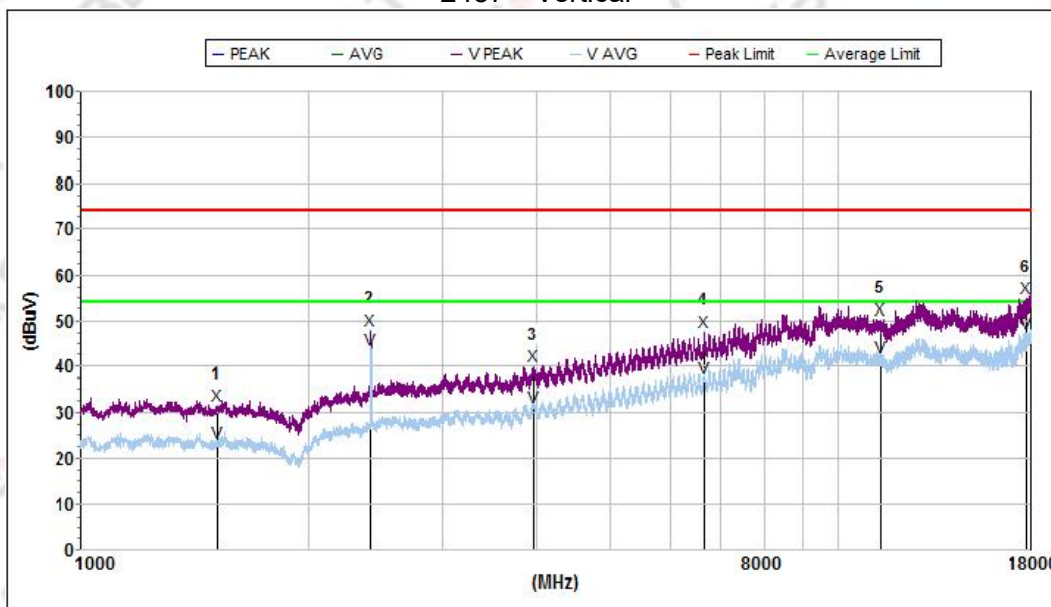


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	34.821189	22.1	40.0	17.9	13.4	32.2	0.8	V
2	72.084342	18.7	40.0	21.3	10.5	32.8	0.8	V
3	99.353769	21.9	43.5	21.6	10.1	32.9	1.4	V
4	181.601525	17.1	43.5	26.4	11.5	32.8	2.0	V
5	333.686743	24.4	46.0	21.6	13.5	32.6	2.7	V
6	559.710646	36.6	46.0	9.4	17.6	32.4	3.1	V

1GHz~18GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11n40		

2437 Vertical

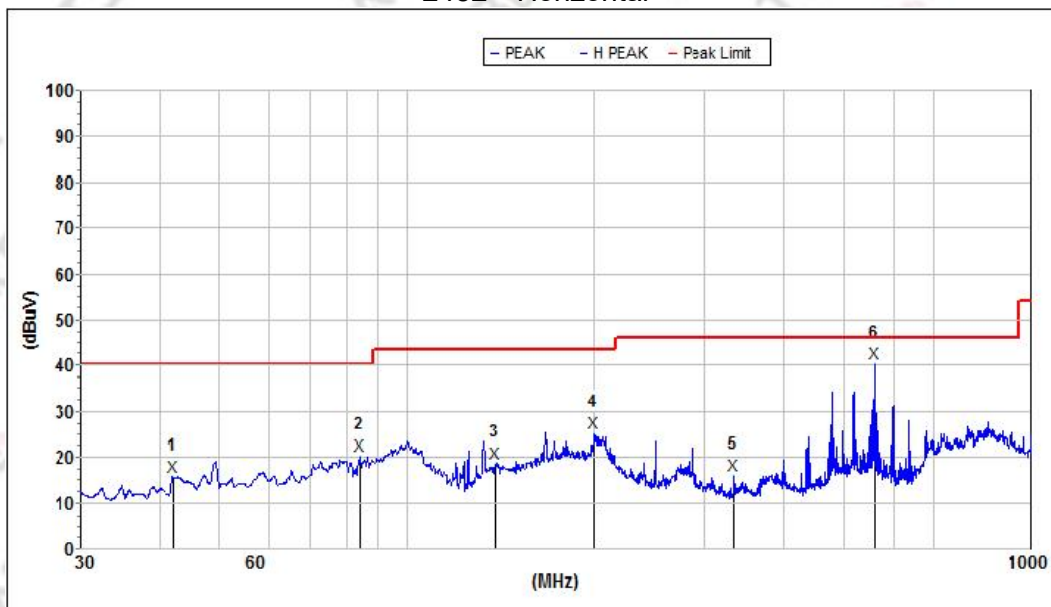


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1515.950000	31.6	74.0	42.4	25.4	61.4	2.5	V
2	2410.150000	48.0	74.0	26.0	27.4	59.4	2.8	V
3	3960.550000	40.0	74.0	34.0	30.8	58.5	3.3	V
4	6674.600000	47.7	74.0	26.3	35.7	58.1	4.3	V
5	11367.450000	50.3	74.0	23.7	39.1	61.1	5.8	V
6	17790.050000	55.0	74.0	19.0	41.0	57.8	7.0	V
Avg								
1	1515.950000	23.4	54.0	30.6	25.4	61.4	2.5	V
2	2410.150000	43.8	54.0	10.2	27.4	59.4	2.8	V
3	3960.550000	31.2	54.0	22.8	30.8	58.5	3.3	V
4	6674.600000	37.6	54.0	16.4	35.7	58.1	4.3	V
5	11367.450000	42.1	54.0	11.9	39.1	61.1	5.8	V
6	17790.050000	47.3	54.0	6.7	41.0	57.8	7.0	V

30MHz~1GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11n40		

2452 Horizontal

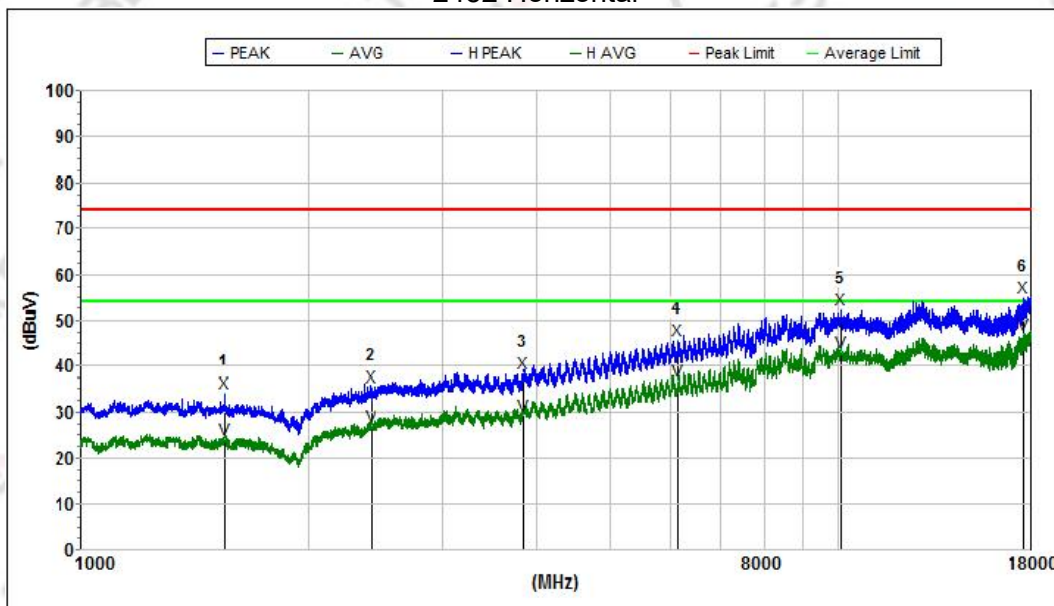


Mk.	Freq.(MHz)	Level (dBuV/ m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	42.154165	15.8	40.0	24.2	14.0	32.4	0.8	H
2	83.815575	20.3	40.0	19.7	9.3	32.9	1.0	H
3	138.630193	18.7	43.5	24.8	13.4	32.9	1.4	H
4	199.635245	25.3	43.5	18.2	9.9	32.8	2.3	H
5	334.272302	16.0	46.0	30.0	13.2	32.6	2.7	H
6	559.710646	40.3	46.0	5.7	15.5	32.4	3.1	H

1GHz~18GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11n40		

2452 Horizontal

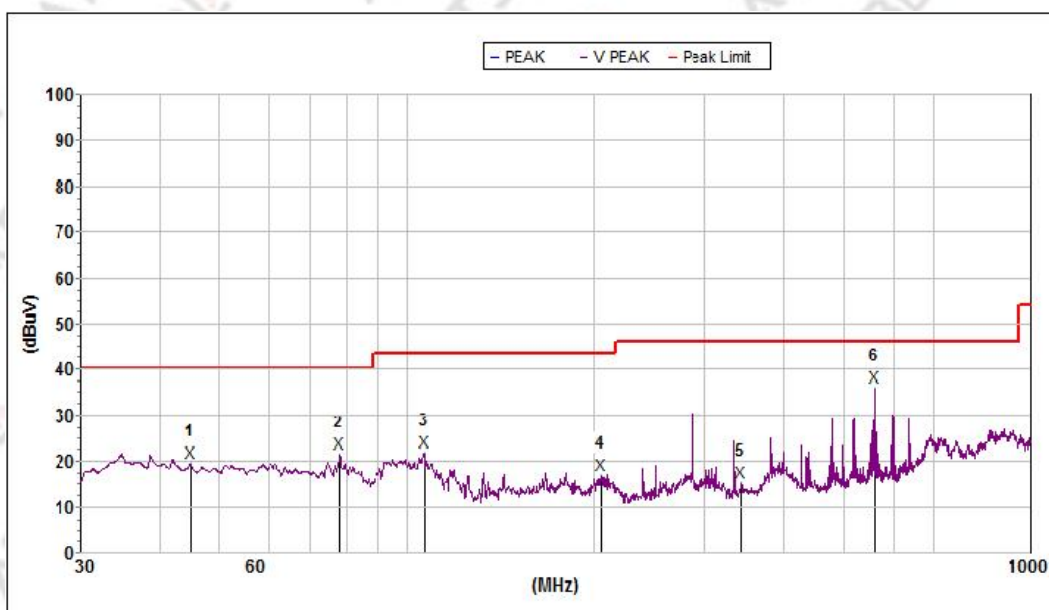


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/ m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1549.950000	34.1	74.0	39.9	25.3	61.3	2.5	H
2	2414.400000	35.6	74.0	38.4	27.4	59.4	2.8	H
3	3833.900000	38.5	74.0	35.5	30.5	58.8	3.2	H
4	6139.950000	45.8	74.0	28.2	34.0	58.0	4.1	H
5	10100.950000	52.2	74.0	21.8	38.6	60.4	5.4	H
6	17578.400000	54.8	74.0	19.2	39.7	58.1	6.9	H
Avg								
1	1549.950000	24.1	54.0	29.9	25.3	61.3	2.5	H
2	2414.400000	27.1	54.0	26.9	27.4	59.4	2.8	H
3	3833.900000	29.2	54.0	24.8	30.5	58.8	3.2	H
4	6139.950000	36.8	54.0	17.2	34.0	58.0	4.1	H
5	10100.950000	43.2	54.0	10.8	38.6	60.4	5.4	H
6	17578.400000	46.9	54.0	7.1	39.7	58.1	6.9	H

30MHz~1GHz

Temperature:	25°C	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11n40		

2452 Vertical

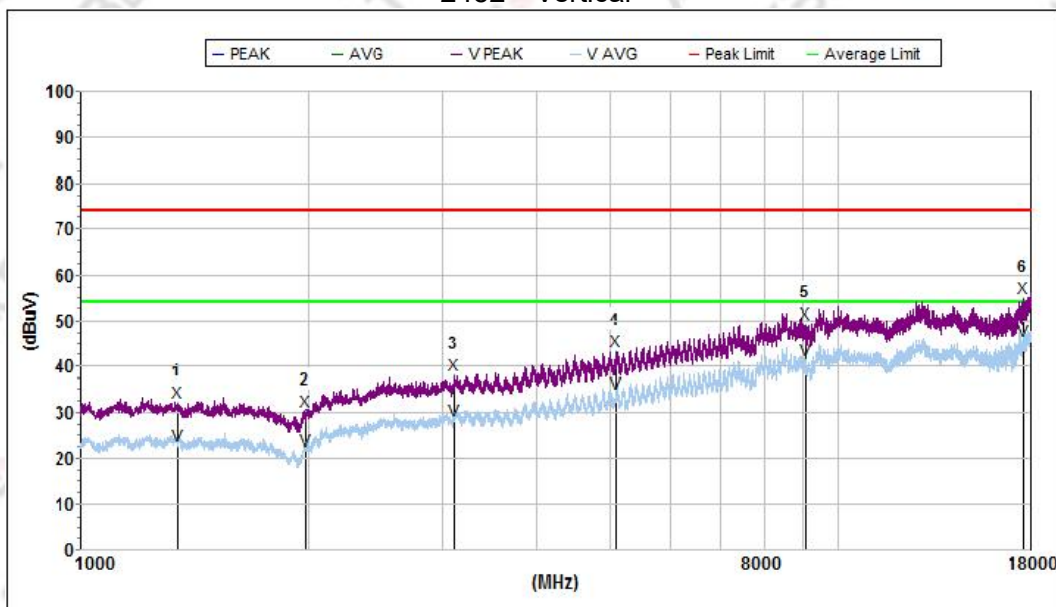


Mk.	Freq.(MHz)	Level (dBuV/ m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	44.979410	19.7	40.0	20.3	13.8	32.5	0.8	V
2	78.001995	21.7	40.0	18.3	9.6	32.9	0.9	V
3	106.571707	22.1	43.5	21.4	10.8	32.9	1.4	V
4	204.955137	17.0	43.5	26.5	10.1	32.8	2.4	V
5	343.180010	15.5	46.0	30.5	13.7	32.5	2.7	V
6	559.710646	36.1	46.0	9.9	17.6	32.4	3.1	V

1GHz~18GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11n40		

2452 Vertical

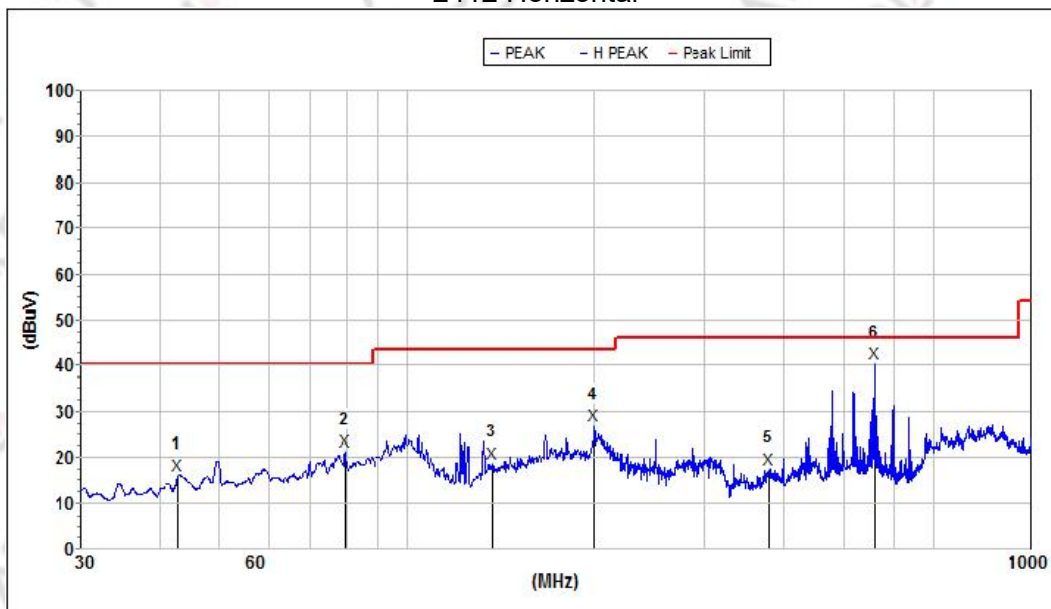


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1346.800000	32.3	74.0	41.7	25.7	61.2	2.3	V
2	1984.381232	30.2	74.0	43.8	26.3	60.9	2.7	V
3	3108.000000	38.3	74.0	35.7	29.7	58.7	3.0	V
4	5102.100000	43.3	74.0	30.7	33.1	57.5	3.7	V
5	9063.950000	49.4	74.0	24.6	38.2	59.5	5.4	V
6	17577.550000	54.9	74.0	19.1	39.7	58.1	6.9	V
Avg								
1	1346.800000	22.8	54.0	31.2	25.7	61.2	2.3	V
2	1984.381232	21.8	54.0	32.2	26.3	60.9	2.7	V
3	3108.000000	28.3	54.0	25.7	29.7	58.7	3.0	V
4	5102.100000	34.1	54.0	19.9	33.1	57.5	3.7	V
5	9063.950000	41.4	54.0	12.6	38.2	59.5	5.4	V
6	17577.550000	45.8	54.0	8.2	39.7	58.1	6.9	V

30MHz - 1000MHz

Temperature:	25.0°C	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11ax20		

2412 Horizontal

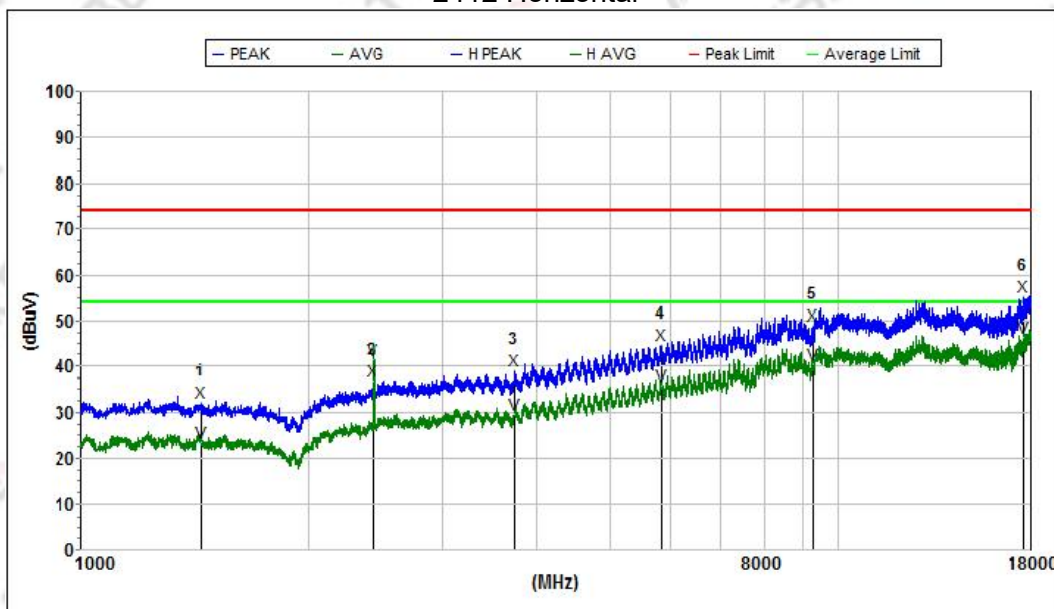


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	43.050457	16.2	40.0	23.8	13.9	32.5	0.8	H
2	79.381647	21.3	40.0	18.7	9.4	32.9	0.9	H
3	137.179492	18.9	43.5	24.6	13.3	32.9	1.4	H
4	199.985568	26.9	43.5	16.6	9.9	32.8	2.3	H
5	378.584289	17.3	46.0	28.7	13.7	32.4	2.7	H
6	559.710646	40.5	46.0	5.5	15.5	32.4	3.1	H

1GHz~18GHz

Temperature:	25.0℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11ax20		

2412 Horizontal

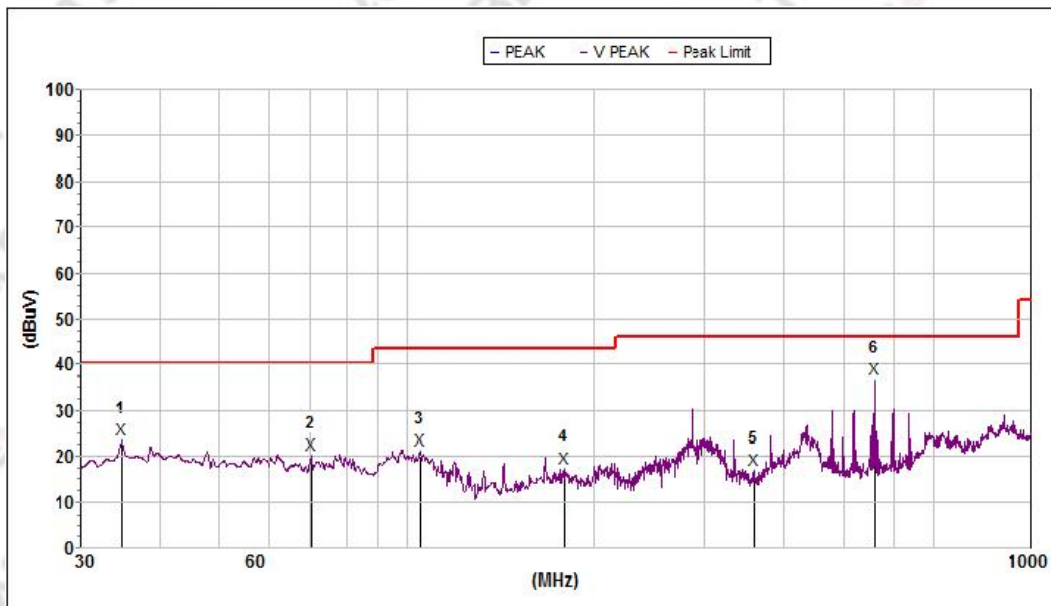


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1443.700000	32.1	74.0	41.9	25.5	61.4	2.4	H
2	2428.000000	36.7	74.0	37.3	27.4	59.3	2.8	H
3	3742.100000	39.0	74.0	35.0	30.1	58.9	3.2	H
4	5837.350000	44.7	74.0	29.3	33.9	58.1	4.1	H
5	9271.350000	48.9	74.0	25.1	38.4	59.5	5.4	H
6	17589.450000	55.3	74.0	18.7	39.8	58.0	6.9	H
Avg								
1	1443.700000	23.5	54.0	30.5	25.5	61.4	2.4	H
2	2428.000000	41.6	54.0	12.4	27.4	59.3	2.8	H
3	3742.100000	29.7	54.0	24.3	30.1	58.9	3.2	H
4	5837.350000	35.8	54.0	18.2	33.9	58.1	4.1	H
5	9271.350000	40.3	54.0	13.7	38.4	59.5	5.4	H
6	17589.450000	46.3	54.0	7.7	39.8	58.0	6.9	H

30MHz~1GHz

Temperature:	25.0℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11ax20		

2412 Vertical

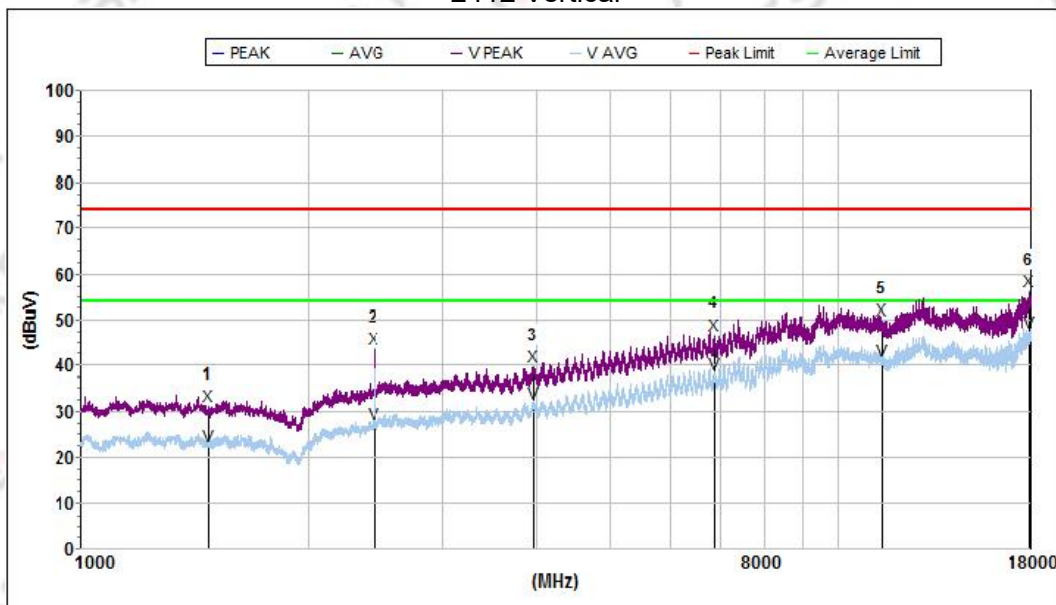


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	34.821189	23.6	40.0	16.4	13.4	32.2	0.8	V
2	70.213294	20.4	40.0	19.6	10.8	32.8	0.8	V
3	105.087342	21.3	43.5	22.2	10.6	32.9	1.4	V
4	178.132703	17.4	43.5	26.1	12.0	32.8	1.9	V
5	359.186005	17.1	46.0	28.9	14.0	32.5	2.7	V
6	559.710646	36.7	46.0	9.3	17.6	32.4	3.1	V

1GHz~18GHz

Temperature:	25.0℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11ax20		

2412 Vertical

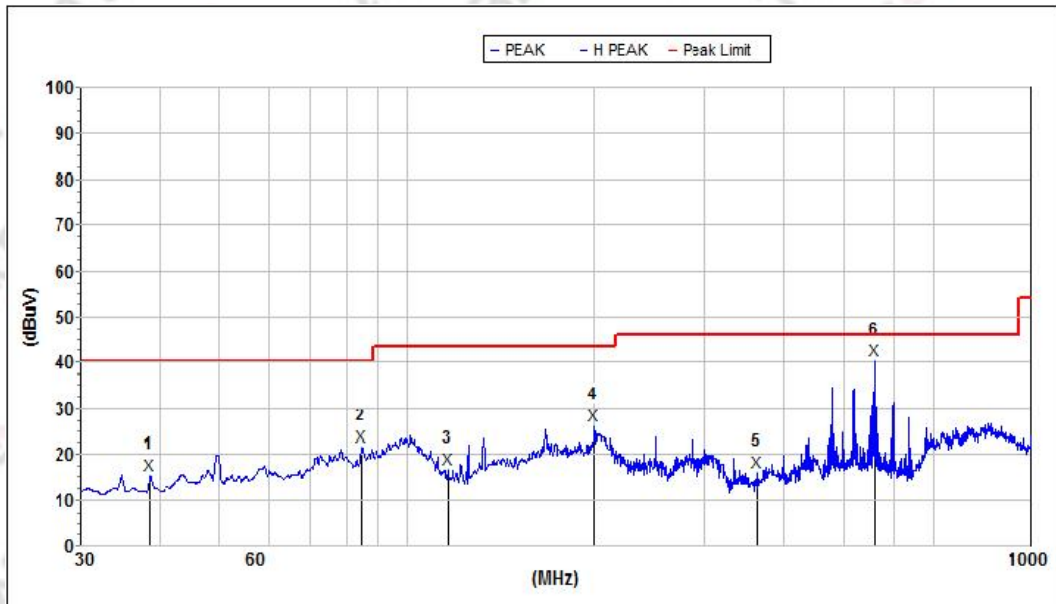


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1477.700000	31.1	74.0	42.9	25.4	61.4	2.4	V
2	2440.750000	43.7	74.0	30.3	27.5	59.2	2.8	V
3	3960.550000	39.9	74.0	34.1	30.8	58.5	3.3	V
4	6865.000000	46.7	74.0	27.3	35.8	58.6	4.3	V
5	11433.750000	50.1	74.0	23.9	39.1	61.1	5.8	V
6	17892.050000	56.2	74.0	17.8	41.7	57.7	7.0	V
Avg								
1	1477.700000	22.5	54.0	31.5	25.4	61.4	2.4	V
2	2440.750000	27.2	54.0	26.8	27.5	59.2	2.8	V
3	3960.550000	31.8	54.0	22.2	30.8	58.5	3.3	V
4	6865.000000	38.2	54.0	15.8	35.8	58.6	4.3	V
5	11433.750000	41.1	54.0	12.9	39.1	61.1	5.8	V
6	17892.050000	47.4	54.0	6.6	41.7	57.7	7.0	V

30MHz~1GHz

Temperature:	25.0°C	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11ax20		

2437 Horizontal

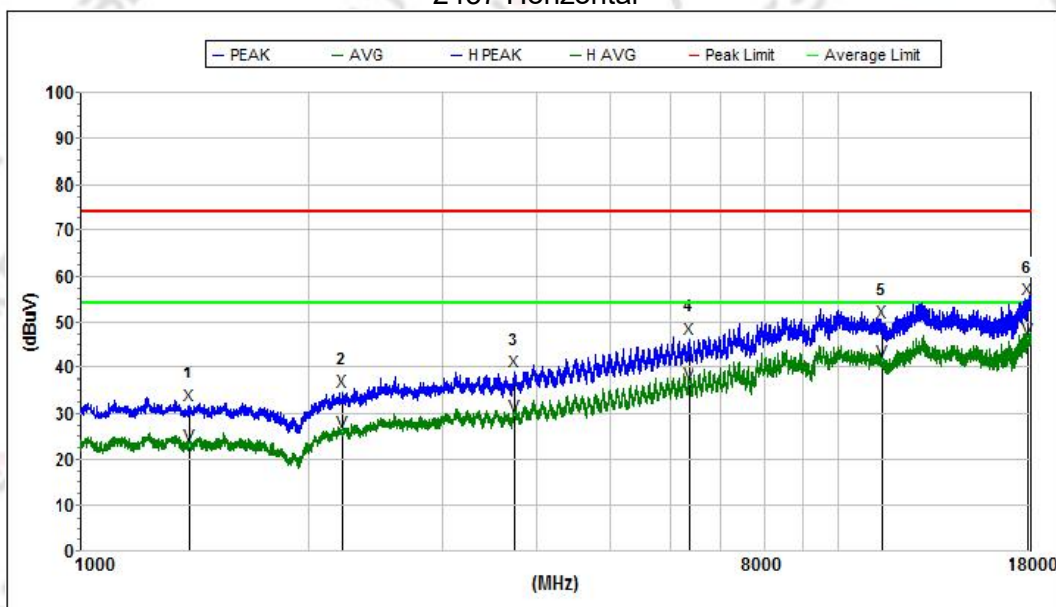


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	38.683874	15.4	40.0	24.6	13.9	32.3	0.8	H
2	84.257592	21.8	40.0	18.2	9.4	32.9	1.0	H
3	116.132146	16.7	43.5	26.8	11.8	32.9	1.4	H
4	199.985568	26.4	43.5	17.1	9.9	32.8	2.3	H
5	363.621440	16.1	46.0	29.9	13.5	32.5	2.7	H
6	559.710646	40.3	46.0	5.7	15.5	32.4	3.1	H

1GHz~18GHz

Temperature:	25.0℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11ax20		

2437 Horizontal

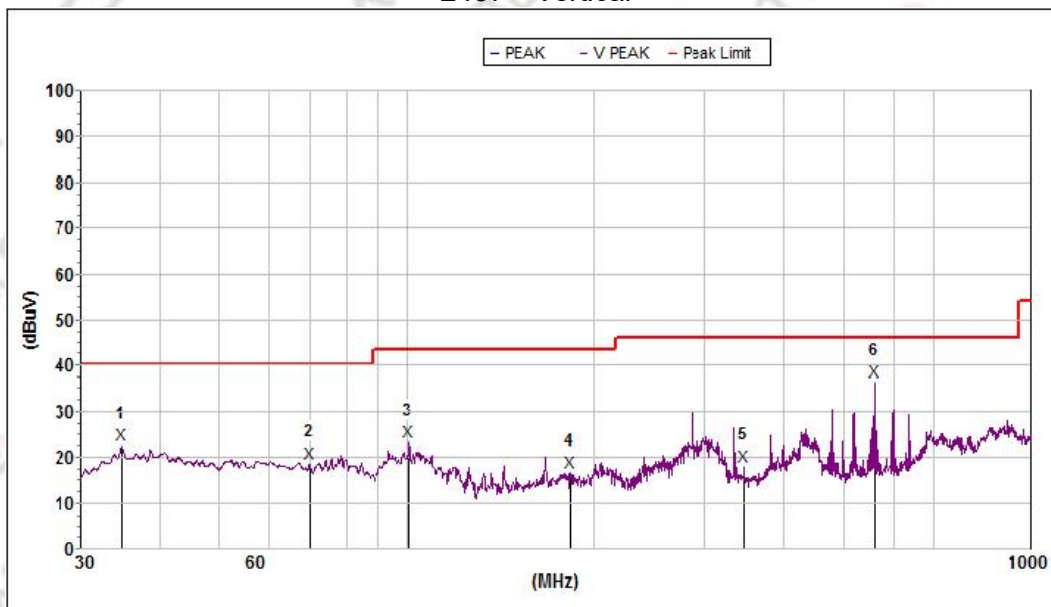


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1393.550000	31.8	74.0	42.2	25.6	61.4	2.4	H
2	2210.400000	34.8	74.0	39.2	27.2	60.5	2.7	H
3	3748.050000	39.2	74.0	34.8	30.1	58.9	3.2	H
4	6344.800000	46.5	74.0	27.5	34.4	58.0	4.2	H
5	11416.750000	50.0	74.0	24.0	39.1	61.1	5.8	H
6	17804.500000	55.0	74.0	19.0	41.1	57.8	7.0	H
Avg								
1	1393.550000	23.1	54.0	30.9	25.6	61.4	2.4	H
2	2210.400000	25.9	54.0	28.1	27.2	60.5	2.7	H
3	3748.050000	29.7	54.0	24.3	30.1	58.9	3.2	H
4	6344.800000	36.6	54.0	17.4	34.4	58.0	4.2	H
5	11416.750000	41.5	54.0	12.5	39.1	61.1	5.8	H
6	17804.500000	46.3	54.0	7.7	41.1	57.8	7.0	H

30MHz~1GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11ax20		

2437 Vertical

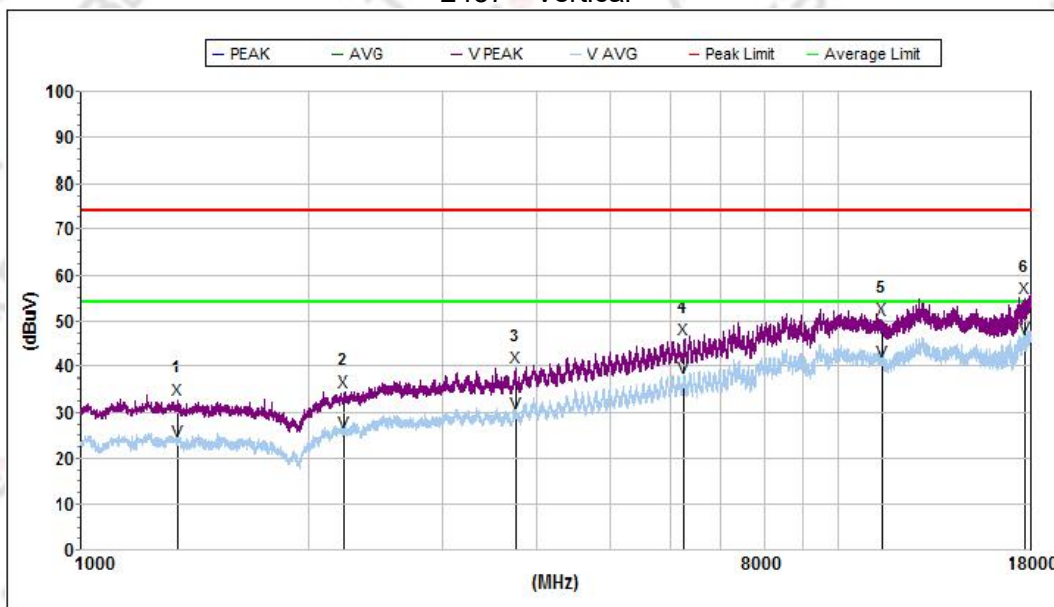


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	34.821189	22.6	40.0	17.4	13.4	32.2	0.8	V
2	69.722603	18.7	40.0	21.3	10.9	32.8	0.8	V
3	100.757147	23.4	43.5	20.1	10.2	32.9	1.4	V
4	182.559236	16.7	43.5	26.8	11.4	32.8	2.0	V
5	346.201687	18.1	46.0	27.9	13.8	32.5	2.7	V
6	559.710646	36.4	46.0	9.6	17.6	32.4	3.1	V

1GHz~18GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11ax20		

2437 Vertical

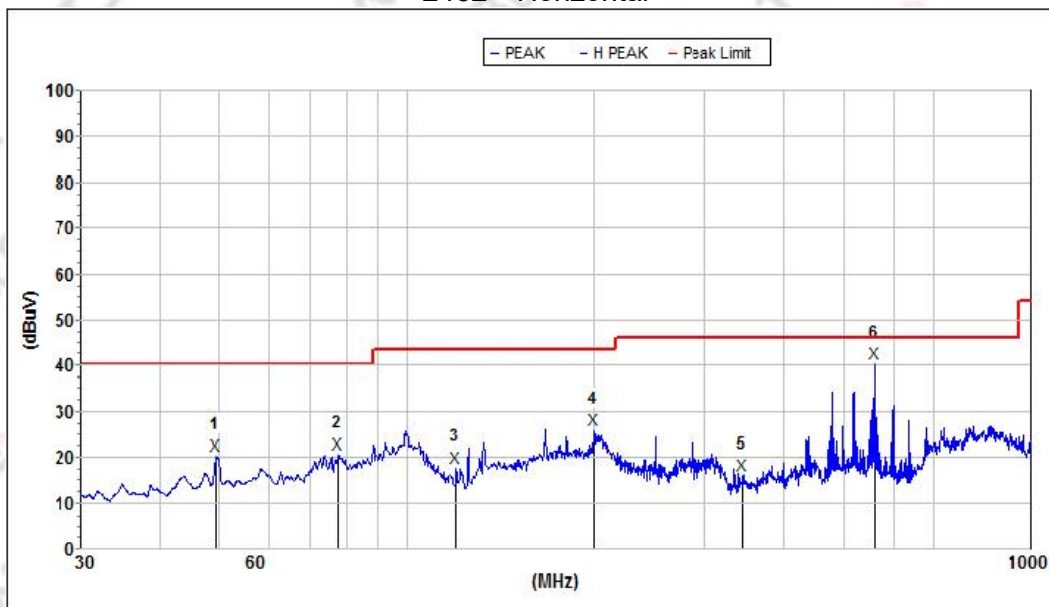


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1346.800000	33.0	74.0	41.0	25.7	61.2	2.3	V
2	2225.700000	34.4	74.0	39.6	27.2	60.4	2.8	V
3	3763.350000	39.7	74.0	34.3	30.2	58.9	3.2	V
4	6245.350000	45.9	74.0	28.1	34.2	58.0	4.2	V
5	11431.200000	50.3	74.0	23.7	39.1	61.1	5.8	V
6	17686.350000	55.0	74.0	19.0	40.4	57.9	6.9	V
Avg								
1	1346.800000	23.7	54.0	30.3	25.7	61.2	2.3	V
2	2225.700000	25.8	54.0	28.2	27.2	60.4	2.8	V
3	3763.350000	29.9	54.0	24.1	30.2	58.9	3.2	V
4	6245.350000	37.6	54.0	16.4	34.2	58.0	4.2	V
5	11431.200000	41.2	54.0	12.8	39.1	61.1	5.8	V
6	17686.350000	46.4	54.0	7.6	40.4	57.9	6.9	V

30MHz~1GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11ax20		

2462 Horizontal

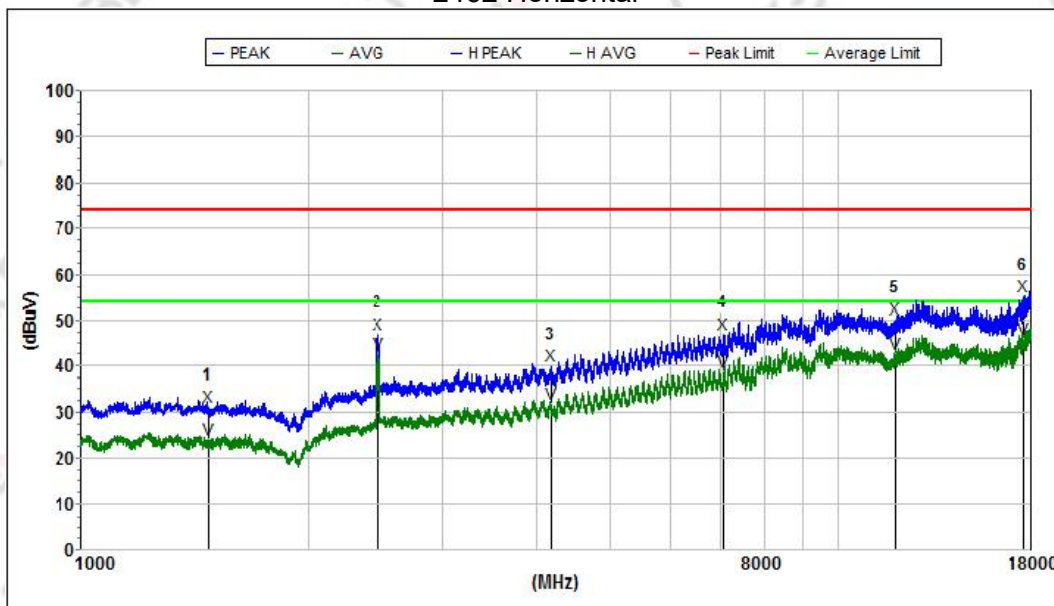


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	49.359419	20.4	40.0	19.6	13.6	32.6	0.8	H
2	77.456872	20.7	40.0	19.3	9.7	32.9	0.9	H
3	119.645652	17.6	43.5	25.9	12.2	32.9	1.4	H
4	199.985568	25.9	43.5	17.6	9.9	32.8	2.3	H
5	344.989836	16.0	46.0	30.0	13.4	32.5	2.7	H
6	559.710646	40.5	46.0	5.5	15.5	32.4	3.1	H

1GHz~18GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11ax20		

2462 Horizontal

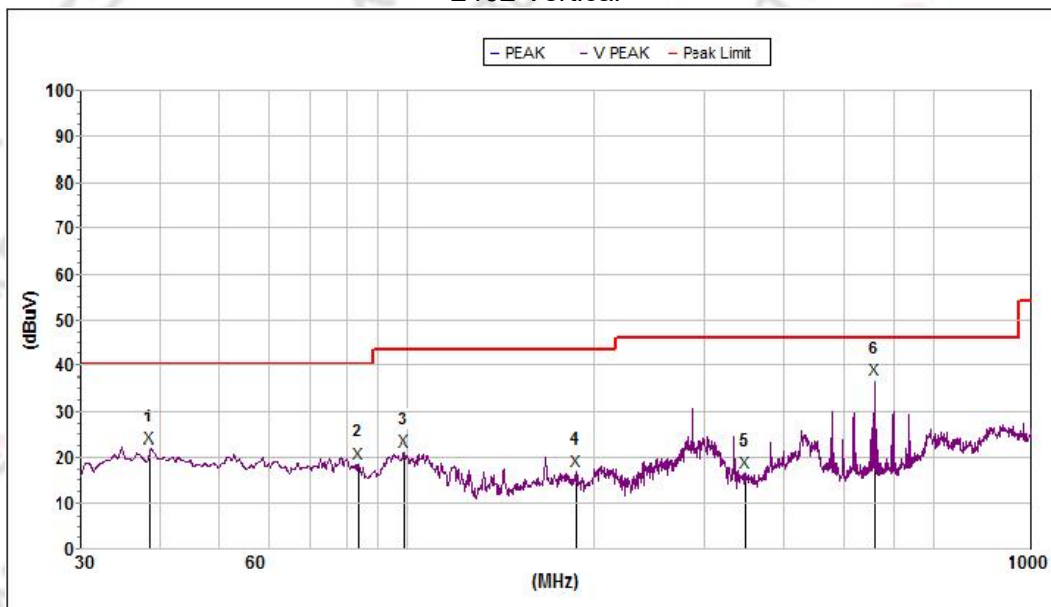


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/ m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1474.300000	31.1	74.0	42.9	25.5	61.4	2.4	H
2	2467.100000	47.0	74.0	27.0	27.6	59.0	2.8	H
3	4173.050000	40.0	74.0	34.0	30.9	58.2	3.4	H
4	7076.650000	47.0	74.0	27.0	36.2	58.2	4.4	H
5	11881.700000	50.4	74.0	23.6	39.0	59.9	5.9	H
6	17570.750000	55.3	74.0	18.7	39.7	58.1	6.9	H
Avg								
1	1474.300000	23.9	54.0	30.1	25.5	61.4	2.4	H
2	2467.100000	42.6	54.0	11.4	27.6	59.0	2.8	H
3	4173.050000	31.8	54.0	22.2	30.9	58.2	3.4	H
4	7076.650000	38.8	54.0	15.2	36.2	58.2	4.4	H
5	11881.700000	42.7	54.0	11.3	39.0	59.9	5.9	H
6	17570.750000	45.9	54.0	8.1	39.7	58.1	6.9	H

30MHz~1GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11ax20		

2462 Vertical

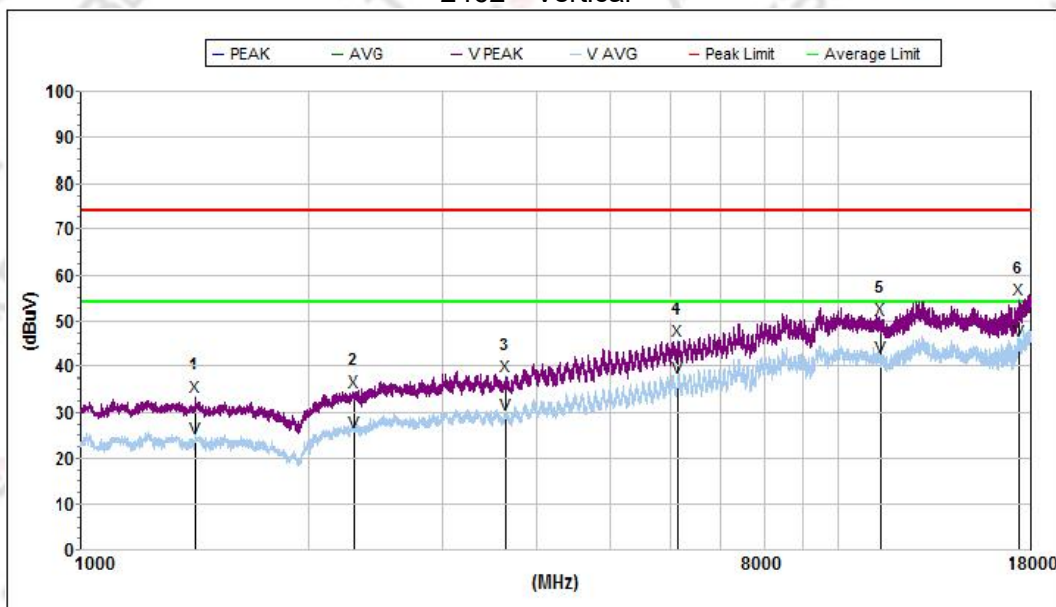


Mk.	Freq.(MHz)	Level (dBuV/ m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	38.683874	22.1	40.0	17.9	13.9	32.3	0.8	V
2	83.229823	18.7	40.0	21.3	9.3	32.9	1.0	V
3	98.832556	21.3	43.5	22.2	10.1	32.9	1.4	V
4	186.440853	17.0	43.5	26.5	10.9	32.8	2.1	V
5	348.638173	16.8	46.0	29.2	13.8	32.5	2.7	V
6	559.710646	36.7	46.0	9.3	17.6	32.4	3.1	V

1GHz~18GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11ax		

2462 Vertical

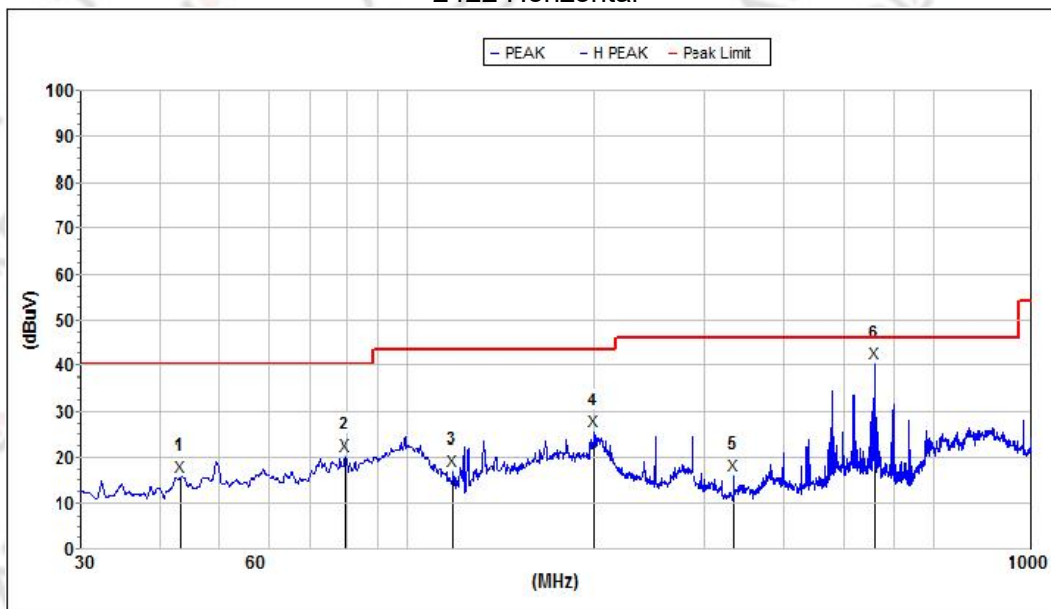


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1417.350000	33.4	74.0	40.6	25.5	61.4	2.4	V
2	2292.000000	34.6	74.0	39.4	27.2	60.0	2.8	V
3	3651.150000	37.9	74.0	36.1	29.7	59.0	3.2	V
4	6145.900000	45.7	74.0	28.3	34.0	58.0	4.1	V
5	11374.250000	50.4	74.0	23.6	39.1	61.1	5.8	V
6	17387.150000	54.5	74.0	19.5	39.0	58.8	6.9	V
Avg								
1	1417.350000	24.3	54.0	29.7	25.5	61.4	2.4	V
2	2292.000000	25.8	54.0	28.2	27.2	60.0	2.8	V
3	3651.150000	29.5	54.0	24.5	29.7	59.0	3.2	V
4	6145.900000	37.4	54.0	16.6	34.0	58.0	4.1	V
5	11374.250000	42.2	54.0	11.8	39.1	61.1	5.8	V
6	17387.150000	45.8	54.0	8.2	39.0	58.8	6.9	V

30MHz - 1000MHz

Temperature:	25.0°C	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11ac40		

2422 Horizontal

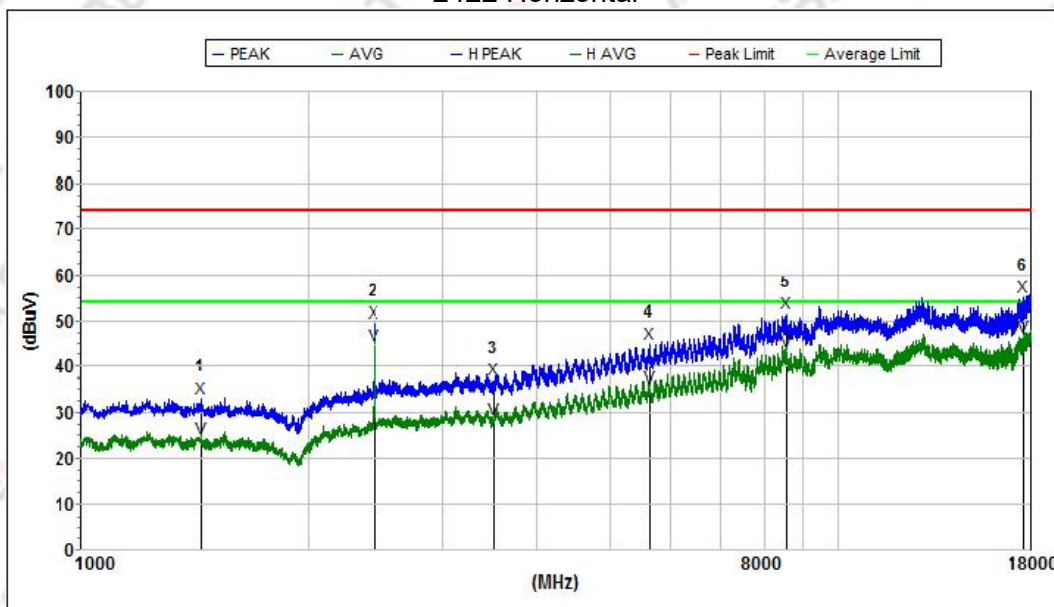


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	43.505724	15.8	40.0	24.2	13.9	32.5	0.8	H
2	79.381647	20.3	40.0	19.7	9.4	32.9	0.9	H
3	118.186220	17.0	43.5	26.5	12.0	32.9	1.4	H
4	199.985568	25.5	43.5	18.0	9.9	32.8	2.3	H
5	333.686743	16.0	46.0	30.0	13.2	32.6	2.7	H
6	559.710646	40.3	46.0	5.7	15.5	32.4	3.1	H

1GHz~18GHz

Temperature:	25.0℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11ac40		

2422 Horizontal

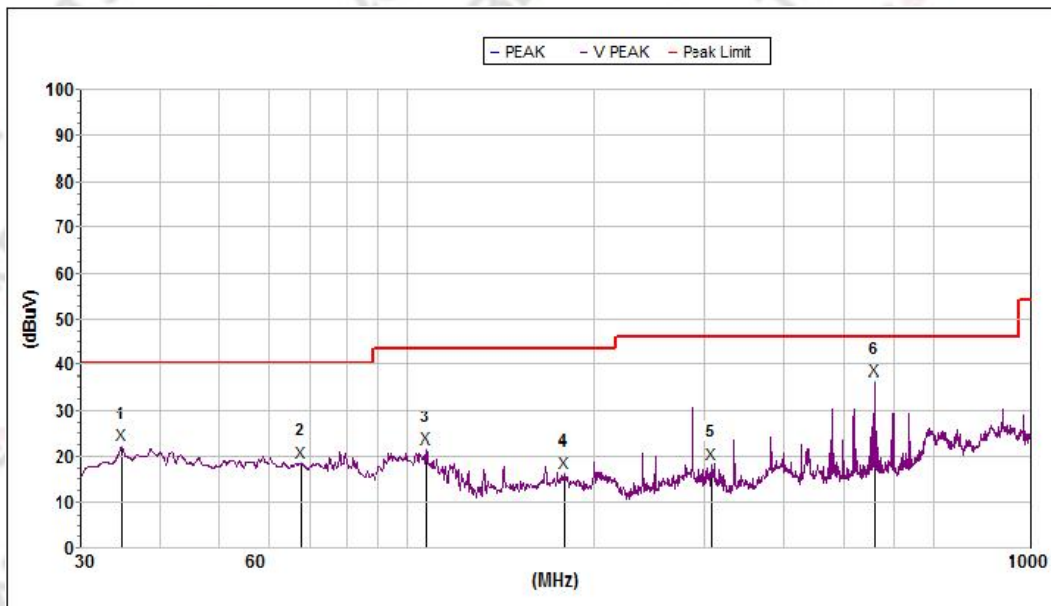


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1442.000000	33.1	74.0	40.9	25.5	61.4	2.4	H
2	2438.200000	49.8	74.0	24.2	27.5	59.2	2.8	H
3	3513.450000	37.3	74.0	36.7	29.5	59.0	3.1	H
4	5630.800000	45.0	74.0	29.0	33.1	58.1	4.0	H
5	8533.550000	51.8	74.0	22.2	37.7	56.1	5.1	H
6	17589.450000	55.4	74.0	18.6	39.8	58.0	6.9	H
Avg								
1	1442.000000	24.5	54.0	29.5	25.5	61.4	2.4	H
2	2438.200000	44.6	54.0	9.4	27.5	59.2	2.8	H
3	3513.450000	28.6	54.0	25.4	29.5	59.0	3.1	H
4	5630.800000	35.5	54.0	18.5	33.1	58.1	4.0	H
5	8533.550000	43.4	54.0	10.6	37.7	56.1	5.1	H
6	17589.450000	46.8	54.0	7.2	39.8	58.0	6.9	H

30MHz~1GHz

Temperature:	25.0℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11ac40		

2422 Vertical

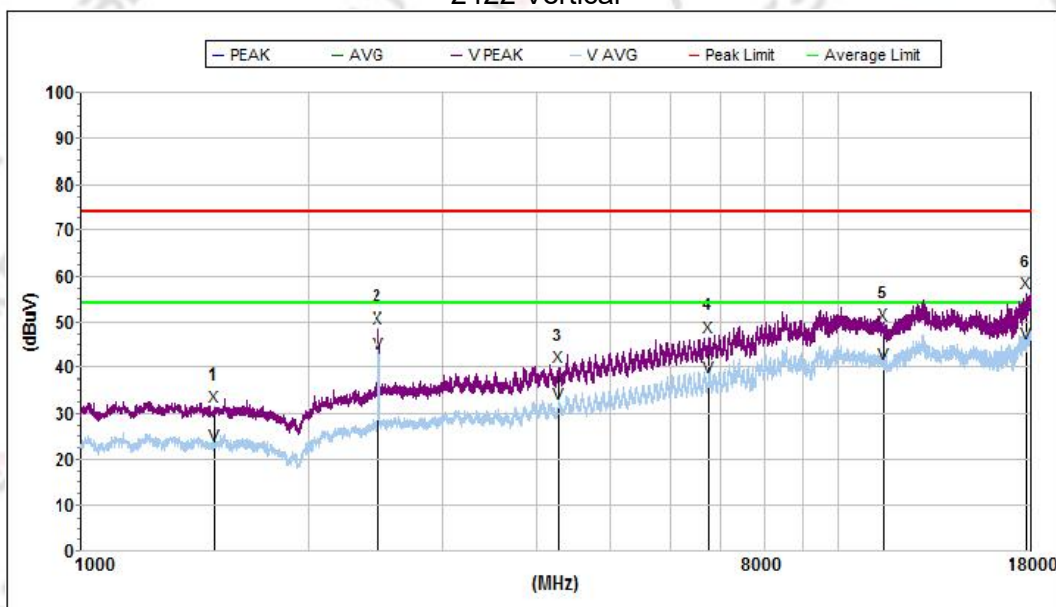


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	34.821189	22.4	40.0	17.6	13.4	32.2	0.8	V
2	67.793891	18.7	40.0	21.3	11.2	32.8	0.8	V
3	107.510063	21.6	43.5	21.9	10.9	32.9	1.4	V
4	178.132703	16.6	43.5	26.9	12.0	32.8	1.9	V
5	308.371463	18.5	46.0	27.5	13.0	32.7	2.7	V
6	559.710646	36.5	46.0	9.5	17.6	32.4	3.1	V

1GHz~18GHz

Temperature:	25.0℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11ac40		

2422 Vertical

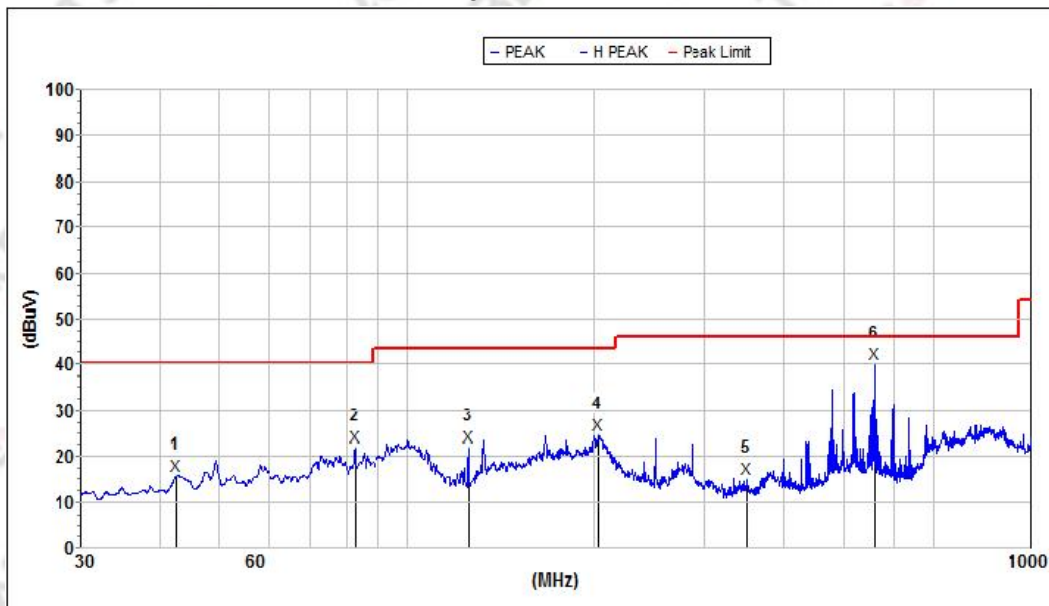


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1504.050000	31.6	74.0	42.4	25.4	61.4	2.5	V
2	2472.200000	48.6	74.0	25.4	27.6	59.0	2.8	V
3	4275.900000	40.2	74.0	33.8	31.2	58.2	3.4	V
4	6767.250000	46.7	74.0	27.3	35.8	58.4	4.3	V
5	11480.500000	49.4	74.0	24.6	39.1	61.1	5.8	V
6	17771.350000	56.3	74.0	17.7	40.9	57.8	7.0	V
Avg								
1	1504.050000	23.0	54.0	31.0	25.4	61.4	2.5	V
2	2472.200000	43.1	54.0	10.9	27.6	59.0	2.8	V
3	4275.900000	32.3	54.0	21.7	31.2	58.2	3.4	V
4	6767.250000	37.9	54.0	16.1	35.8	58.4	4.3	V
5	11480.500000	40.9	54.0	13.1	39.1	61.1	5.8	V
6	17771.350000	45.3	54.0	8.7	40.9	57.8	7.0	V

30MHz~1GHz

Temperature:	25.0°C	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11ac40		

2437 Horizontal

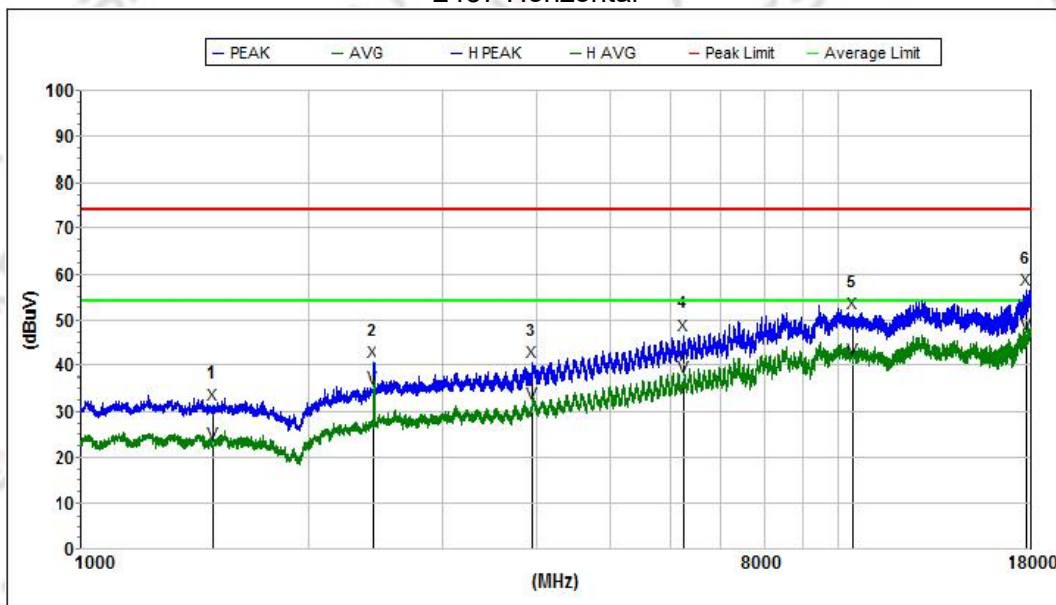


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	42.599954	15.9	40.0	24.1	13.9	32.4	0.8	H
2	82.358861	21.9	40.0	18.1	9.3	32.9	1.0	H
3	125.006589	21.9	43.5	21.6	12.5	32.9	1.4	H
4	202.455105	24.6	43.5	18.9	10.0	32.8	2.4	H
5	351.091807	15.0	46.0	31.0	13.4	32.5	2.7	H
6	559.710646	40.2	46.0	5.8	15.5	32.4	3.1	H

1GHz~18GHz

Temperature:	25.0℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11ac40		

2437 Horizontal

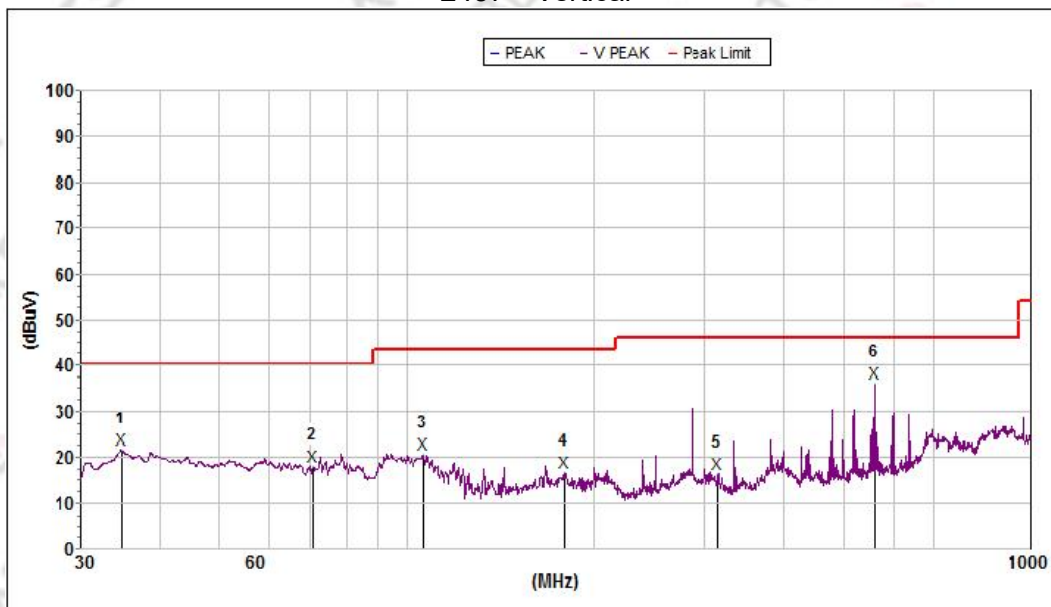


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1493.000000	31.6	74.0	42.4	25.4	61.4	2.4	H
2	2432.534783	40.7	74.0	33.3	27.5	59.3	2.8	H
3	3951.200000	40.7	74.0	33.3	30.8	58.5	3.2	H
4	6241.100000	46.7	74.0	27.3	34.2	58.0	4.2	H
5	10441.800000	51.3	74.0	22.7	38.9	61.0	5.5	H
6	17801.950000	56.6	74.0	17.4	41.1	57.8	7.0	H
Avg								
1	1493.000000	23.1	54.0	30.9	25.4	61.4	2.4	H
2	2432.534783	35.2	54.0	18.8	27.5	59.3	2.8	H
3	3951.200000	31.9	54.0	22.1	30.8	58.5	3.2	H
4	6241.100000	37.6	54.0	16.4	34.2	58.0	4.2	H
5	10441.800000	41.6	54.0	12.4	38.9	61.0	5.5	H
6	17801.950000	47.1	54.0	6.9	41.1	57.8	7.0	H

30MHz~1GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11ac40		

2437 Vertical

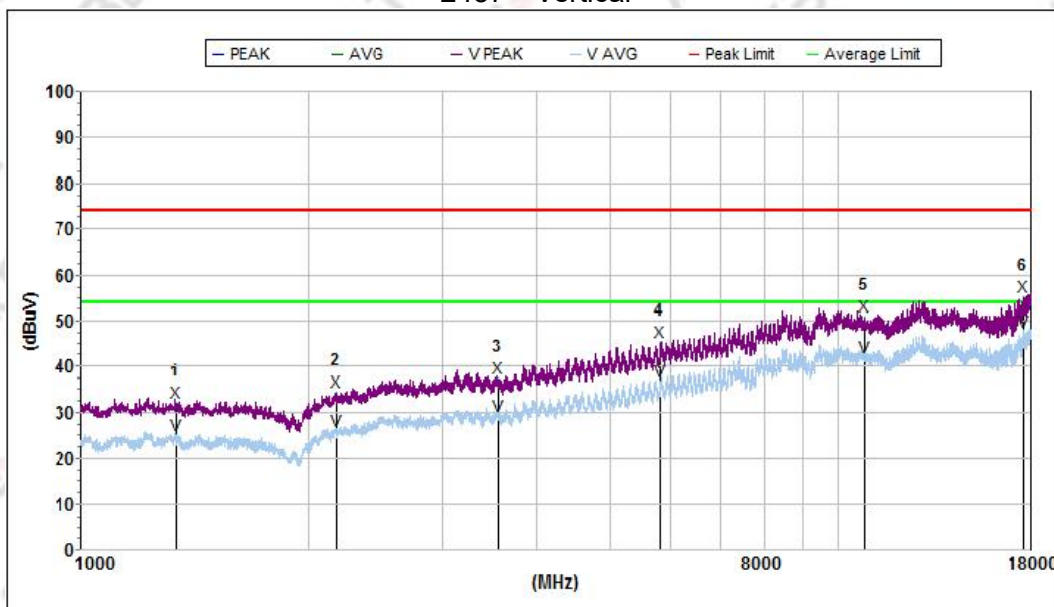


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	34.821189	21.8	40.0	18.2	13.4	32.2	0.8	V
2	70.707439	18.2	40.0	21.8	10.7	32.8	0.8	V
3	106.012629	20.7	43.5	22.8	10.7	32.9	1.4	V
4	178.758432	16.9	43.5	26.6	11.9	32.8	1.9	V
5	314.376456	16.6	46.0	29.4	13.1	32.6	2.7	V
6	559.710646	36.3	46.0	9.7	17.6	32.4	3.1	V

1GHz~18GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11ac40		

2437 Vertical

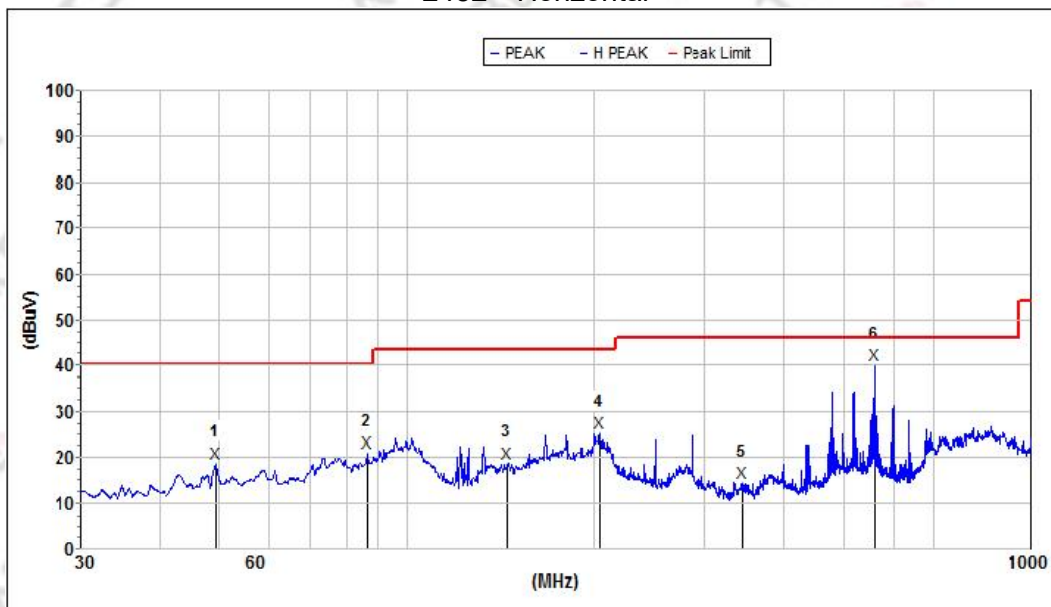


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1335.141363	32.4	74.0	41.6	25.7	61.2	2.3	V
2	2169.600000	34.5	74.0	39.5	27.2	60.6	2.7	V
3	3563.600000	37.6	74.0	36.4	29.5	59.0	3.2	V
4	5826.300000	45.3	74.0	28.7	33.9	58.1	4.1	V
5	10835.350000	51.0	74.0	23.0	38.9	61.1	5.6	V
6	17575.000000	55.3	74.0	18.7	39.7	58.1	6.9	V
Avg								
1	1335.141363	25.0	54.0	29.0	25.7	61.2	2.3	V
2	2169.600000	26.1	54.0	27.9	27.2	60.6	2.7	V
3	3563.600000	29.2	54.0	24.8	29.5	59.0	3.2	V
4	5826.300000	36.9	54.0	17.1	33.9	58.1	4.1	V
5	10835.350000	42.0	54.0	12.0	38.9	61.1	5.6	V
6	17575.000000	47.6	54.0	6.4	39.7	58.1	6.9	V

30MHz~1GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11ac40		

2452 Horizontal

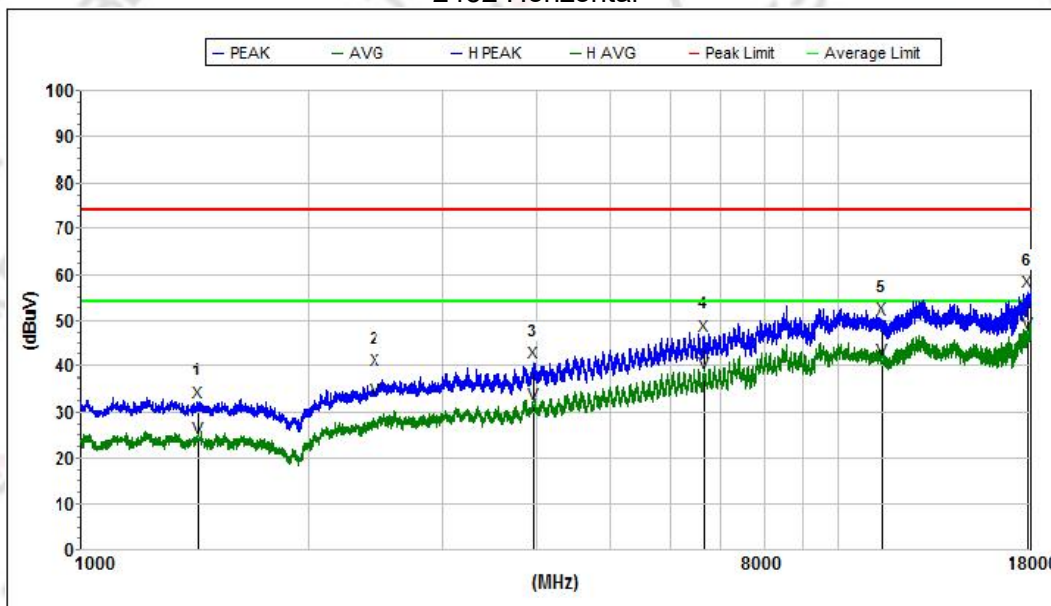


Mk.	Freq.(MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	49.359419	18.6	40.0	21.4	13.6	32.6	0.8	H
2	86.200097	20.9	40.0	19.1	9.4	32.9	1.1	H
3	145.095937	18.8	43.5	24.7	13.8	32.9	1.3	H
4	203.522791	25.2	43.5	18.3	10.0	32.8	2.4	H
5	344.385503	14.6	46.0	31.4	13.4	32.5	2.7	H
6	559.710646	40.1	46.0	5.9	15.5	32.4	3.1	H

1GHz~18GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	802.11ac40		

2452 Horizontal

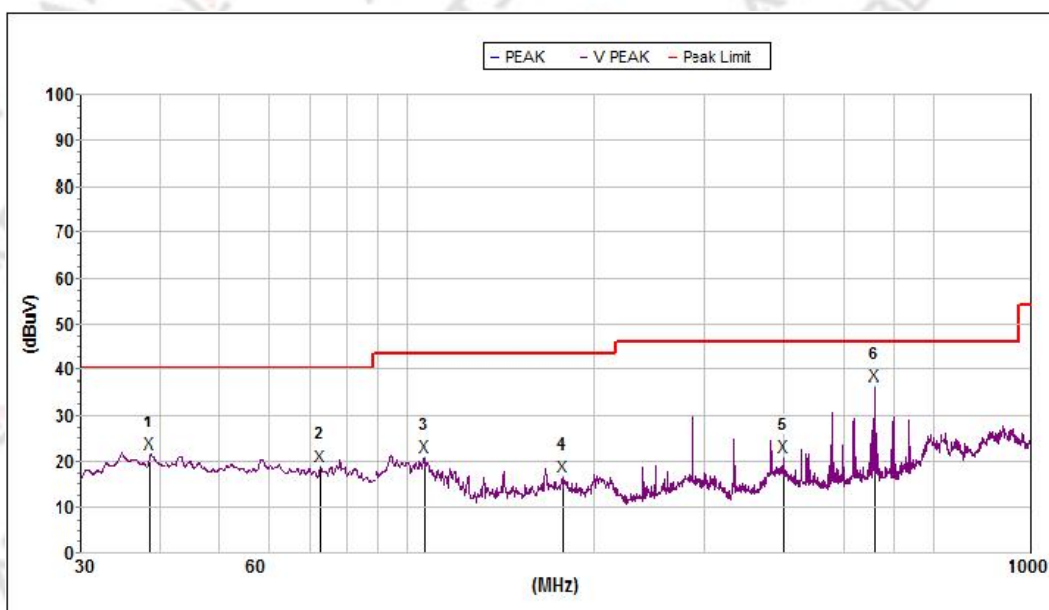


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/ m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1430.950000	32.3	74.0	41.7	25.5	61.4	2.4	H
2	2446.700000	39.2	74.0	34.8	27.5	59.2	2.8	H
3	3954.600000	40.7	74.0	33.3	30.8	58.5	3.2	H
4	6658.450000	46.8	74.0	27.2	35.7	58.1	4.3	H
5	11450.750000	50.4	74.0	23.6	39.1	61.1	5.8	H
6	17803.650000	56.3	74.0	17.7	41.1	57.8	7.0	H
Avg								
1	1430.950000	24.3	54.0	29.7	25.5	61.4	2.4	H
2	2446.700000	33.0	54.0	21.0	27.5	59.2	2.8	H
3	3954.600000	32.0	54.0	22.0	30.8	58.5	3.2	H
4	6658.450000	38.4	54.0	15.6	35.7	58.1	4.3	H
5	11450.750000	41.5	54.0	12.5	39.1	61.1	5.8	H
6	17803.650000	47.3	54.0	6.7	41.1	57.8	7.0	H

30MHz~1GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11ac40		

2452 Vertical

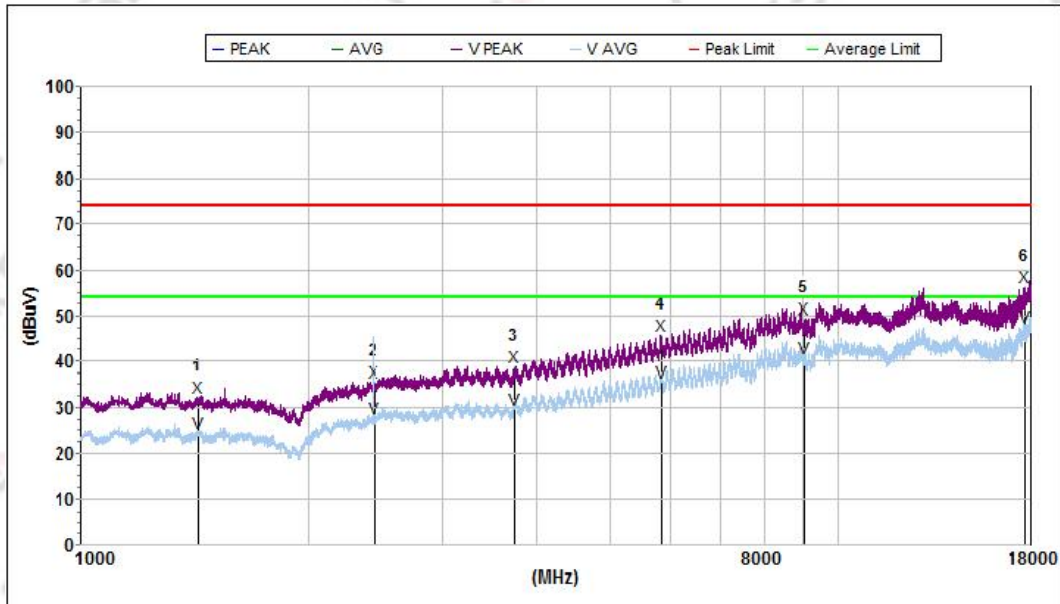


Mk.	Freq.(MHz)	Level (dBuV/ m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	38.683874	21.7	40.0	18.3	13.9	32.3	0.8	V
2	72.591655	19.1	40.0	20.9	10.4	32.8	0.9	V
3	106.571707	20.9	43.5	22.6	10.8	32.9	1.4	V
4	177.820660	16.9	43.5	26.6	12.0	32.8	1.9	V
5	399.730428	21.1	46.0	24.9	14.7	32.3	2.7	V
6	559.710646	36.4	46.0	9.6	17.6	32.4	3.1	V

1GHz~18GHz

Temperature:	25℃	Relative Humidity:	50%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	802.11ac40		

2452 Vertical

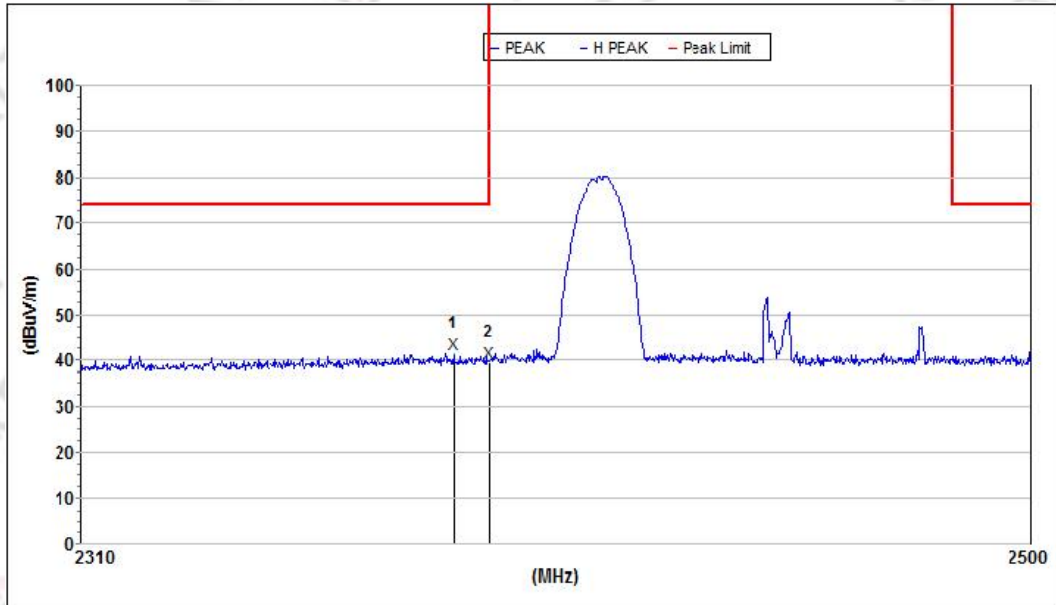


Mk.	Freq.(MHz)	Level (dBu V/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1430.950000	32.3	74.0	41.7	25.5	61.4	2.4	V
2	2434.800000	35.6	74.0	38.4	27.5	59.3	2.8	V
3	3737.000000	38.7	74.0	35.3	30.1	58.9	3.2	V
4	5848.400000	45.8	74.0	28.2	33.9	58.1	4.1	V
5	9059.700000	49.4	74.0	24.6	38.2	59.5	5.4	V
6	17691.450000	56.1	74.0	17.9	40.4	57.9	6.9	V
Avg								
1	1430.950000	24.4	54.0	29.6	25.5	61.4	2.4	V
2	2434.800000	27.6	54.0	26.4	27.5	59.3	2.8	V
3	3737.000000	29.6	54.0	24.4	30.1	58.9	3.2	V
4	5848.400000	35.4	54.0	18.6	33.9	58.1	4.1	V
5	9059.700000	40.7	54.0	13.3	38.2	59.5	5.4	V
6	17691.450000	47.7	54.0	6.3	40.4	57.9	6.9	V

3.2.6 TEST RESULTS (BAND EDGE REQUIREMENTS)

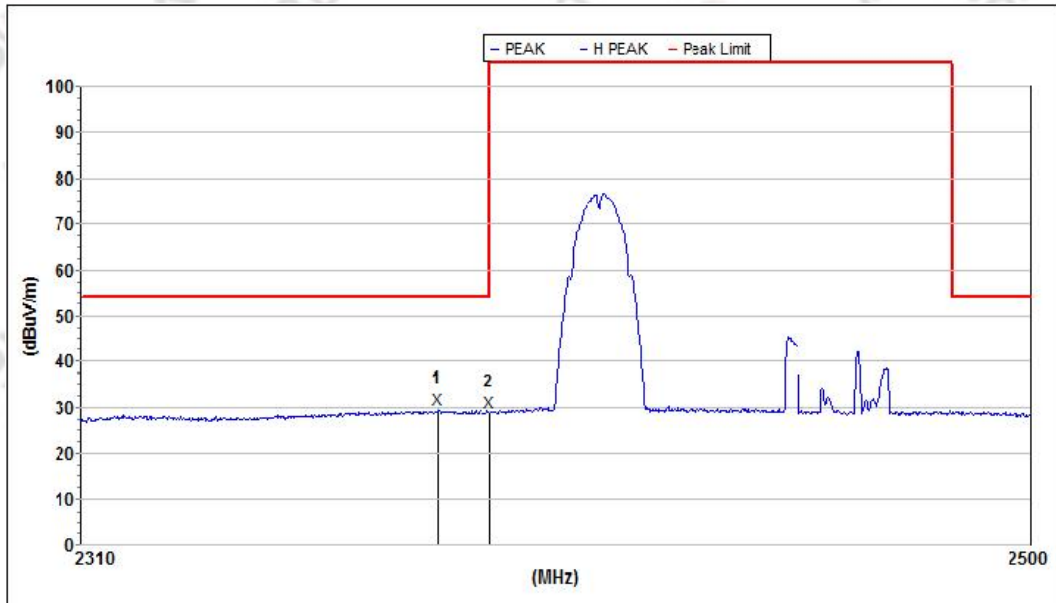
802.11b-Low

Horizontal



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	2382.695624	41.5	74.0	32.5	27.3	59.6	2.8	H
2	2390.000000	39.6	74.0	34.4	27.3	59.6	2.8	H

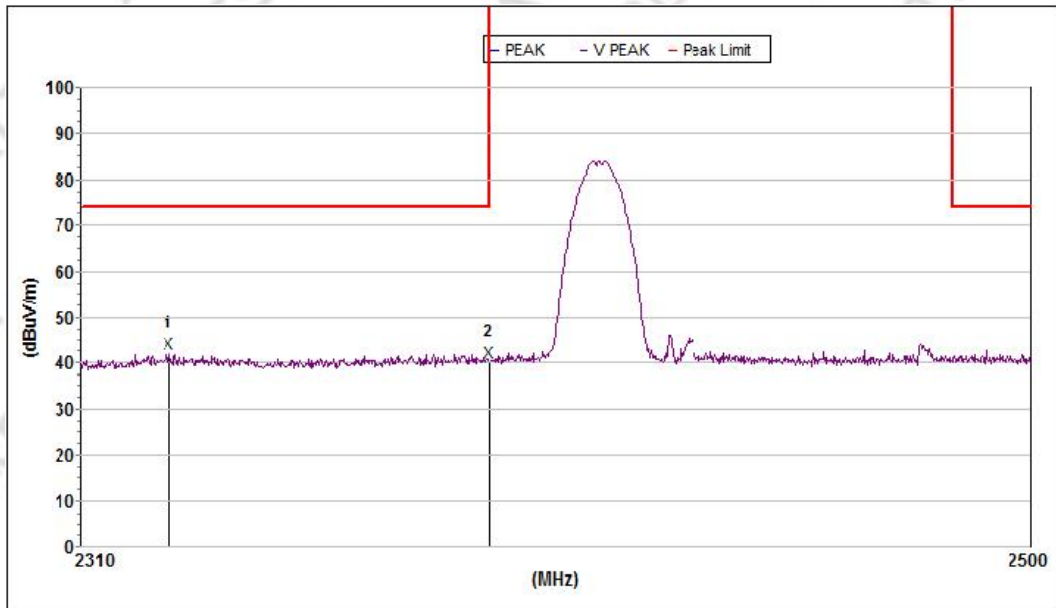
Horizontal



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2379.684154	29.5	54.0	24.5	27.3	59.6	2.8	H
2	2390.000000	28.8	54.0	25.2	27.3	59.6	2.8	H

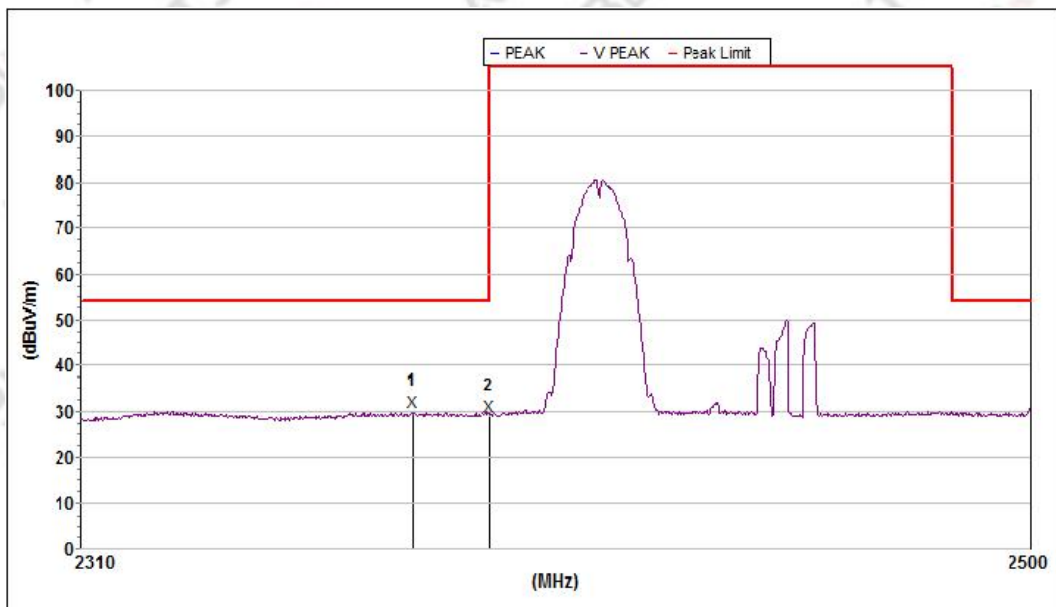
802.11b-Low

Vertical



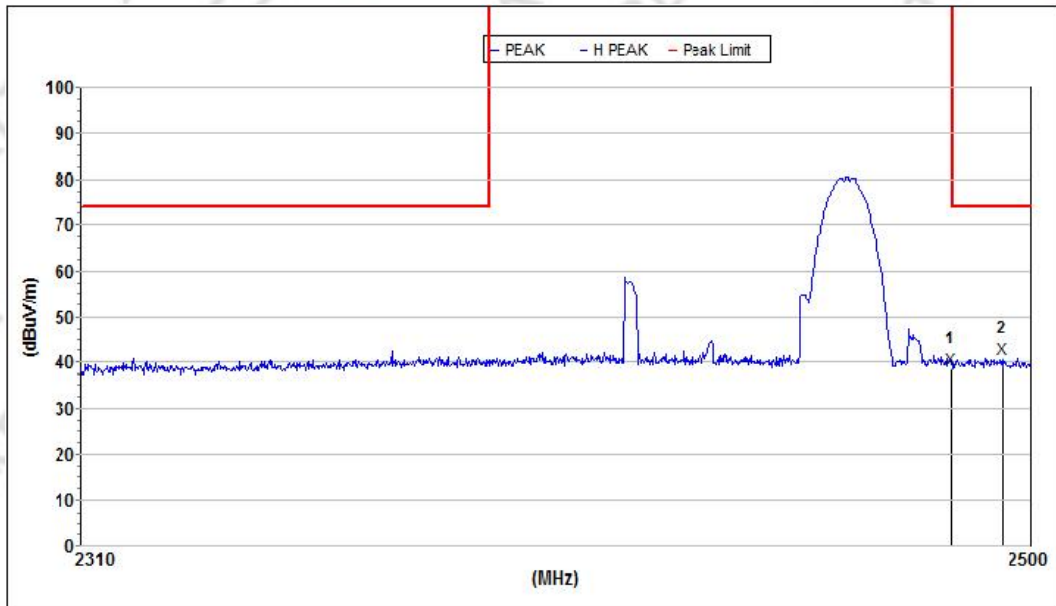
Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	2327.043419	42.2	74.0	31.8	27.2	59.8	2.8	V
2	2390.000000	40.1	74.0	33.9	27.3	59.6	2.8	V

Vertical



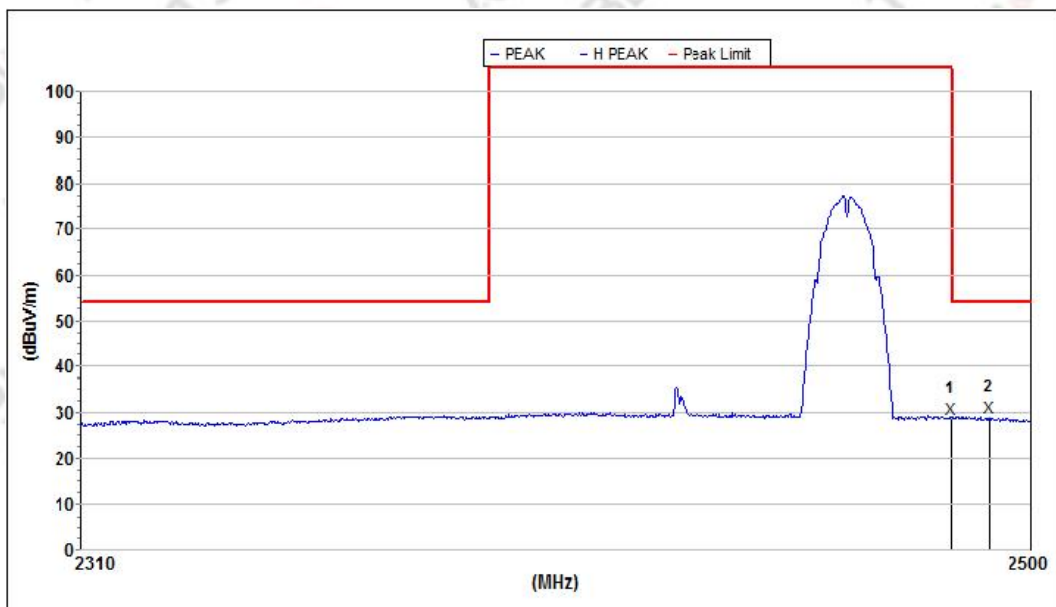
Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2374.610927	29.8	54.0	24.2	27.3	59.6	2.8	V
2	2390.000000	29.0	54.0	25.0	27.3	59.6	2.8	V

802.11b-High Horizontal



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	2483.501000	38.6	74.0	35.4	27.7	58.9	2.8	H
2	2494.078783	40.7	74.0	33.3	27.7	58.8	2.8	H

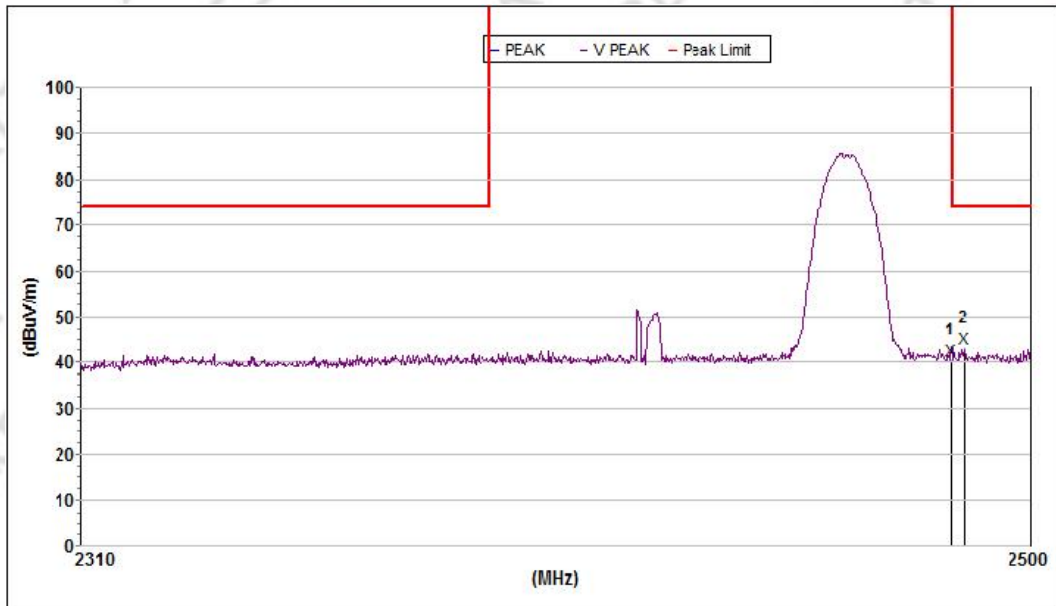
Horizontal



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2483.501000	28.6	54.0	25.4	27.7	58.9	2.8	H
2	2491.123435	28.9	54.0	25.1	27.7	58.8	2.8	H

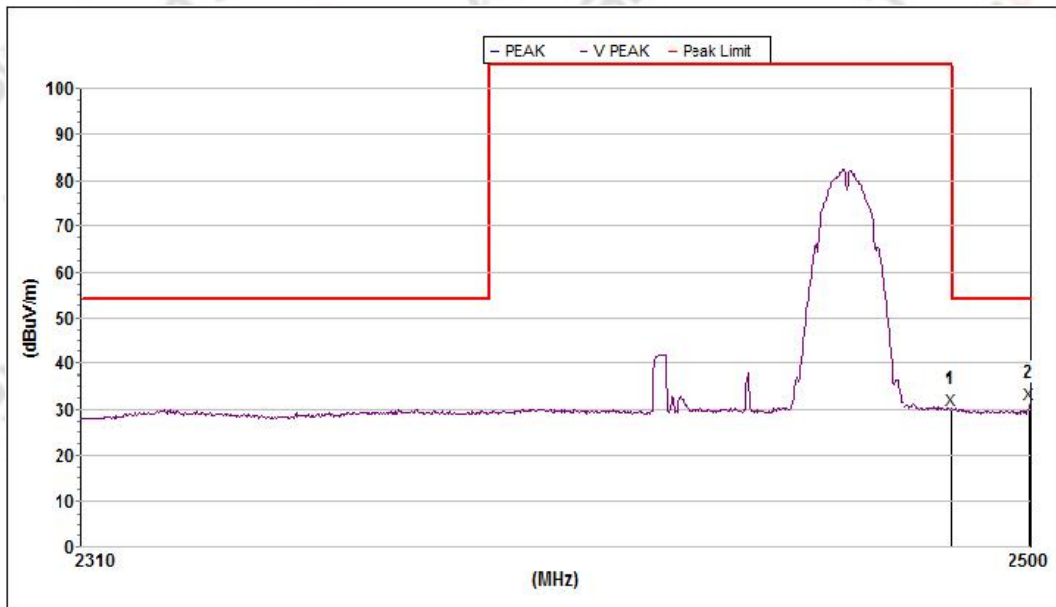
802.11b-High

Vertical



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	2483.501000	40.5	74.0	33.5	27.7	58.9	2.8	V
2	2486.205636	43.1	74.0	30.9	27.7	58.9	2.8	V

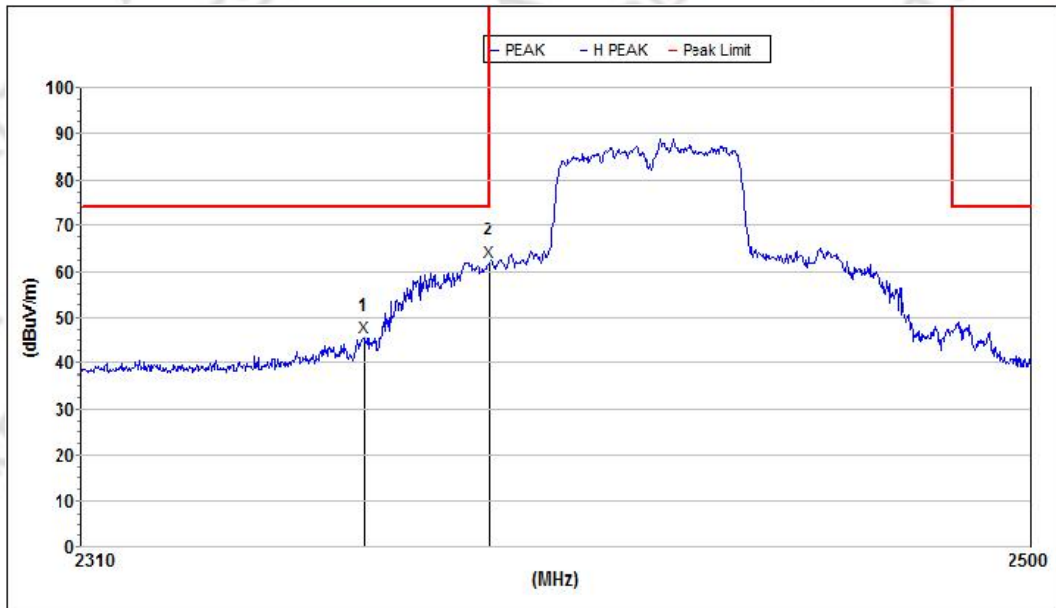
Vertical



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2483.501000	29.9	54.0	24.1	27.7	58.9	2.8	V
2	2499.802400	31.3	54.0	22.7	27.7	58.8	2.8	V

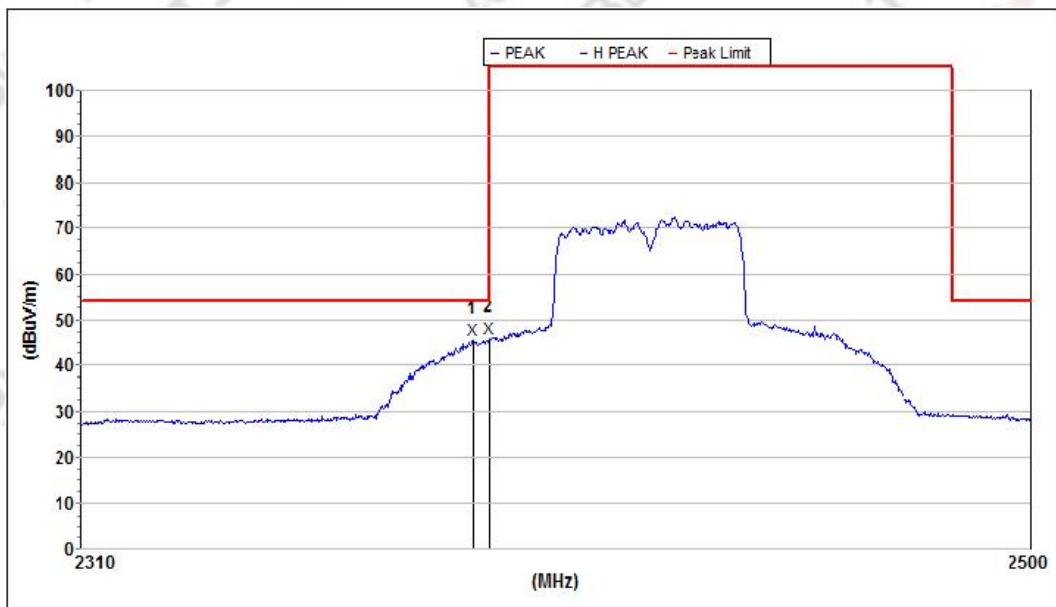
802.11n40-Low

Horizontal



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	2364.870721	45.6	74.0	28.4	27.3	59.7	2.8	H
2	2390.000000	62.1	74.0	11.9	27.3	59.6	2.8	H

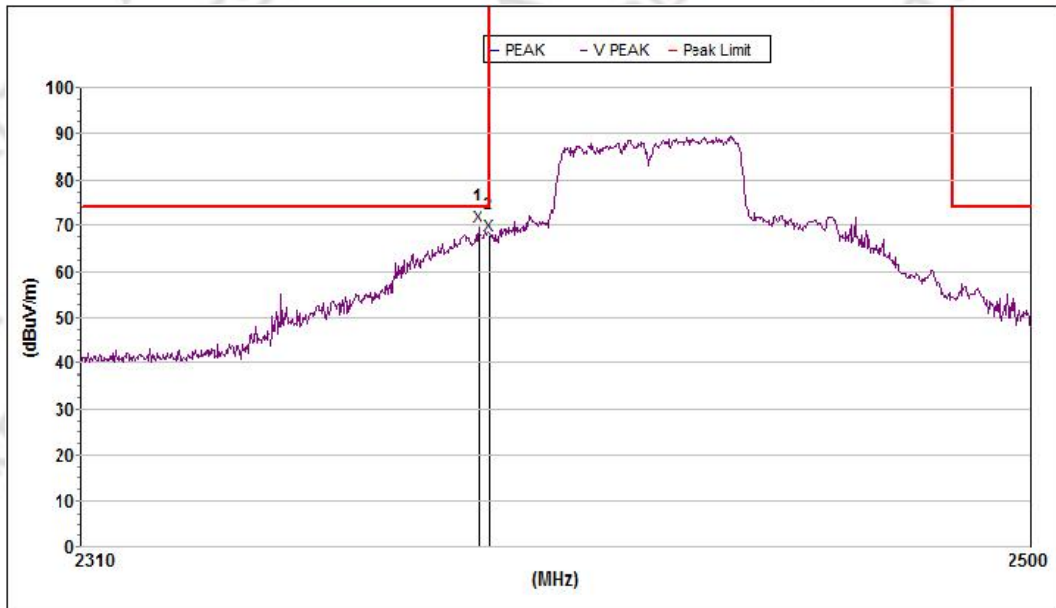
Horizontal



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2386.465321	45.6	54.0	8.4	27.3	59.6	2.8	H
2	2390.000000	46.0	54.0	8.0	27.3	59.6	2.8	H

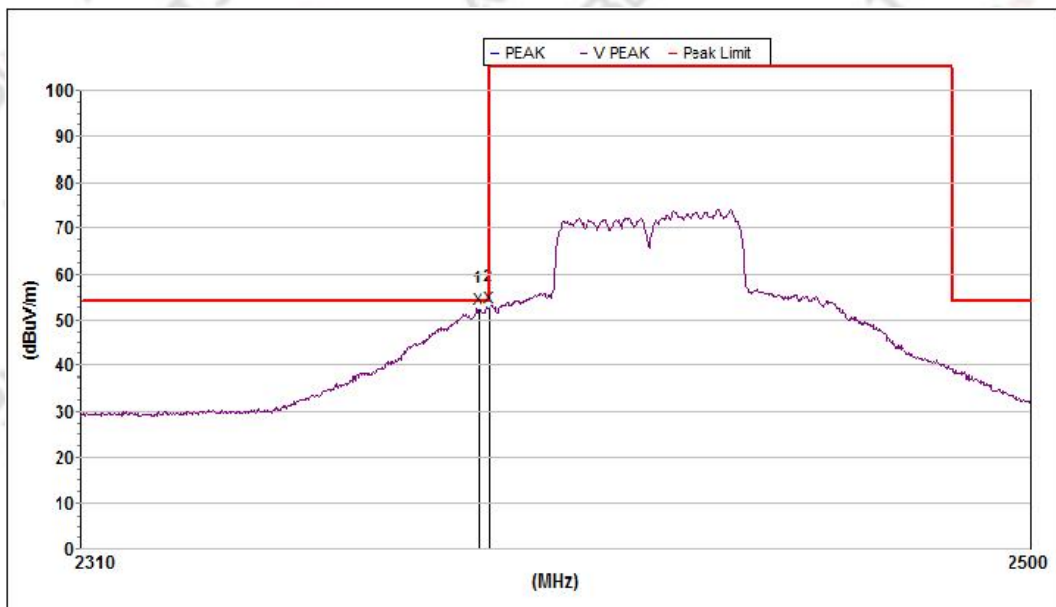
802.11n40-Low

Vertical



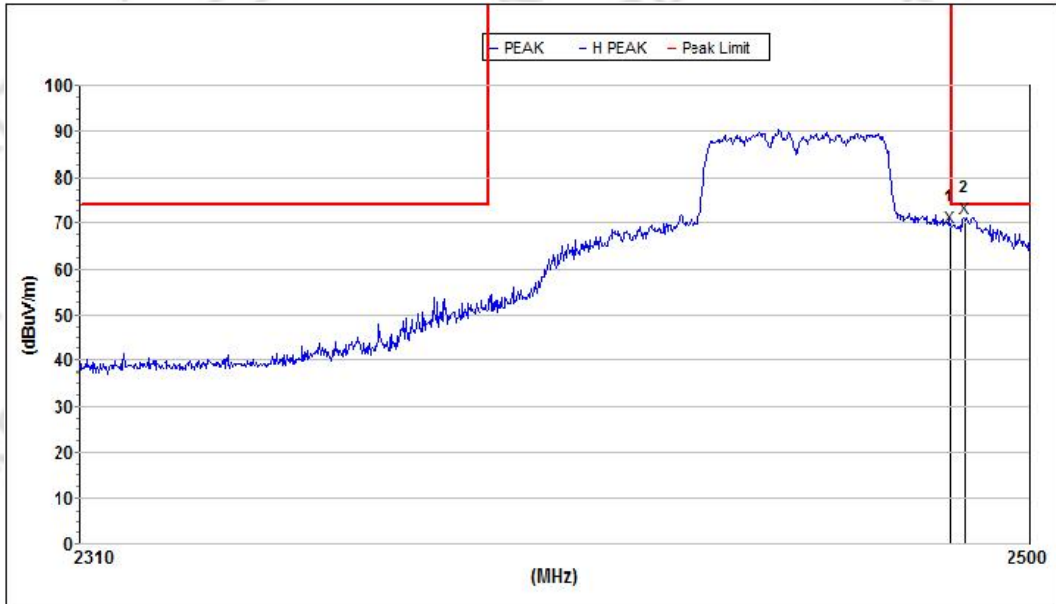
Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	2387.597392	69.7	74.0	4.3	27.3	59.6	2.8	V
2	2390.000000	67.9	74.0	6.1	27.3	59.6	2.8	V

Vertical



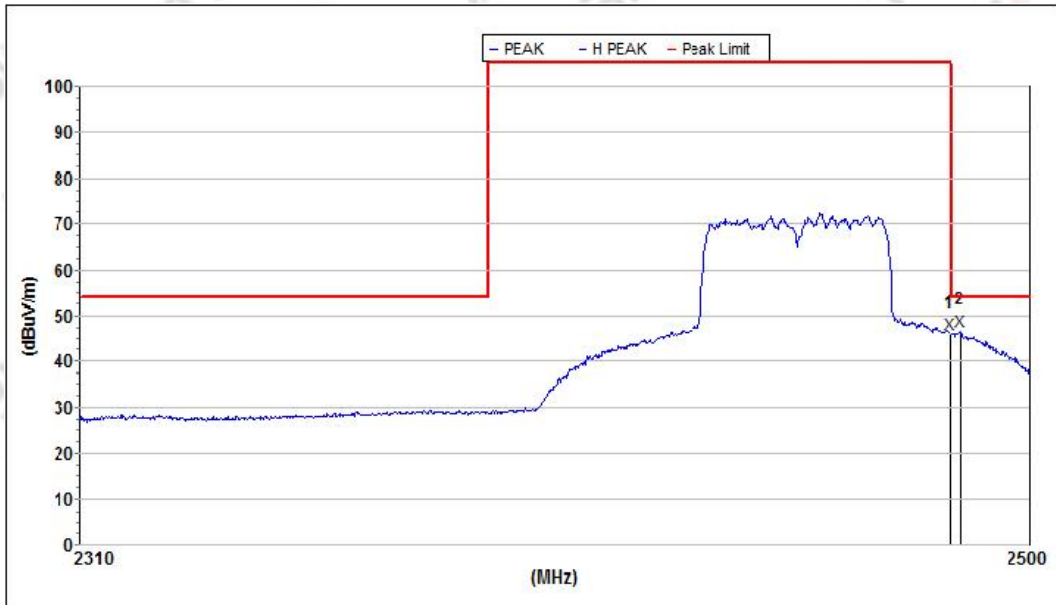
Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2387.786123	52.3	54.0	1.7	27.3	59.6	2.8	V
2	2390.000000	52.6	54.0	1.4	27.3	59.6	2.8	V

802.11n40-High Horizontal



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	2483.501000	69.1	74.0	4.9	27.7	58.9	2.8	H
2	2486.402162	71.2	74.0	2.8	27.7	58.9	2.8	H

Horizontal



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2483.501000	46.1	54.0	7.9	27.7	58.9	2.8	H
2	2485.616153	46.6	54.0	7.4	27.7	58.9	2.8	H