



Radio Test Report

Report No.: STS2603097W03

Issued for

Drlook E-commerce Limited

RM 1168, FLAT A & B, 11/F, BLK 1 CAMELPAINT BLDG
NO.62 HOI YUEN RD KWUN TONG KL HONG KONG,
CHINA

Product Name: AI Learning Camera Cap

Brand Name: **Dr.Look** 

Model Name: LK-CL01-US

Series Model(s): N/A

FCC ID: 2BU8L-LKCL01US

Test Standards: FCC Part15.247

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name: Drlook E-commerce Limited
Address: RM 1168, FLAT A & B, 11/F, BLK 1 CAMELPAINT BLDG NO.62 HOI YUEN RD KWUN TONG KL HONG KONG, CHINA
Manufacturer's Name: Drlook E-commerce Limited
Address: RM 1168, FLAT A & B, 11/F, BLK 1 CAMELPAINT BLDG NO.62 HOI YUEN RD KWUN TONG KL HONG KONG, CHINA

Product Description

Product Name: AI Learning Camera Cap
Brand Name: **Dr.Look** 
Model Name: LK-CL01-US
Series Model(s): N/A
Standards: FCC Part 15.247
Test Procedure: ANSI C63.10-2020

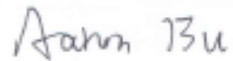
This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date of receipt of test item: 13 Mar. 2026
Date (s) of performance of tests: 13 Mar. 2026~28 Apr. 2026
Date of Issue: 28 Apr. 2026
Test Result: **Pass**

Testing Engineer :



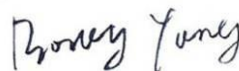
(Aaron Bu)

Technical Manager :



(Skylar Li)

Authorized Signatory :



(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	28 Apr. 2026	STS2603097W03	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	Conducted Emission	PASS	--
15.247 (a)(2)	6dB Bandwidth	PASS	--
15.247 (b)(3)	Output Power	PASS	--
15.209	Radiated Spurious Emission	PASS	--
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS	--
15.247 (e)	Power Spectral Density	PASS	--
15.205	Restricted Band Edge Emission	PASS	--
Part 15.247(d)/ part 15.209(a)	Band Edge Emission	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 C63.10-2020.



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.751\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.888\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 2.48\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 2.52\text{dB}$
5	All emissions, radiated 1G-18GHz	$\pm 3.48\text{dB}$
6	All emissions, radiated >18GHz	$\pm 4.18\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.48\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.52\text{dB}$
9	Occupied Channel Bandwidth	$\pm 3.6\%$
10	Power Spectral Density, conducted	$\pm 1.214\text{dB}$
11	Duty Cycle	$\pm 3.2\%$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	AI Learning Camera Cap	
Brand Name	Dr.Look 	
Model Name	LK-CL01-US	
Series Model(s)	N/A	
Model Difference	N/A	
Product Description	The EUT is a AI Learning Camera Cap	
	Operation Frequency:	802.11b/g/n/ax 20: 2412~2462 MHz 802.11n/ax40:2422~2452MHz
	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 802.11ax(OFDM, OFDMA): BPSK,QPSK,16-QAM,64-QAM,256-QAM, 1024QAM
	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 802.11ax(HE20): 135/65/58.5/52/39/26/19.5/13/6.5Mbps 802.11ax(HE40): 270/135/121.5/108/81/54/40.5/37/13.5Mbps
	Number of Channel:	802.11b/g/n/ax20: 11CH 802.11n/ax 40: 7CH
	Antenna Type:	FPC
	Antenna Gain:	1.26dBi
Channel List	Please refer to the Note 4.	
Power Rating	Input: DC 5V	
Adapter	N/A	
Battery	Model: SZA404862 Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 1600mAh	
Hardware version number	V1.0	
Software version number	1.0.1	
Connecting I/O Port(s)	Please refer to the Note 1.	

Note:



1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna details in this report are based on the manufacturer provided antenna specification documents and apply only to the tested sample identified herein.
Any discrepancies in the antenna information may affect the accuracy of the test results, and the customer assumes responsibility for any related issues..
3. The 802.11ax mode Only support full RU.

4.

Operation Frequency of channel			
802.11b/g/n/ax(20MHz)		Channel List for 802.11n/ax(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/ax (HT20)		For 802.11n/ax (HT40)	
Channel	Freq.(MHz)	Channel	Freq.(MHz)
01	2412	03	2422
06	2437	06	2437
11	2462	09	2452



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 CH01	1 Mbps
Mode 2	TX IEEE 802.11b CH06	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH01	6 Mbps
Mode 5	TX IEEE 802.11g CH06	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH01	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH06	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0
Mode 10	TX IEEE 802.11n HT40 CH03	MCS 0
Mode 11	TX IEEE 802.11n HT40 CH06	MCS 0
Mode 12	TX IEEE 802.11n HT40 CH09	MCS 0
Mode 13	TX IEEE 802.11ax HE20 CH01	NSS1 MCS0
Mode 14	TX IEEE 802.11ax HE20 CH06	NSS1 MCS0
Mode 15	TX IEEE 802.11ax HE20 CH11	NSS1 MCS0
Mode 16	TX IEEE 802.11ax HE40 CH03	NSS1 MCS0
Mode 17	TX IEEE 802.11ax HE40 CH06	NSS1 MCS0
Mode 18	TX IEEE 802.11ax HE40 CH09	NSS1 MCS0

Note:

- (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.

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode19: Keeping TX + WLAN Link



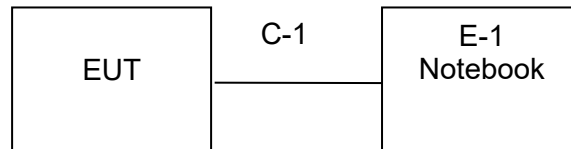
2.3 TEST SOFTWARE AND POWER LEVEL

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

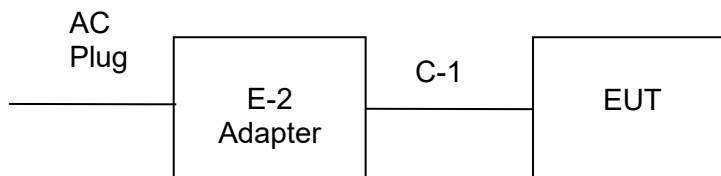
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
WIFI(2.4G)	2.4G WIFI	802.11b	1.26	13	CMD
		802.11g		14	
		802.11n(HT20)		15	
		802.11n(HT40)		15	
		802.11ax(HE20)		15	
		802.11ax(HE40)		15	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

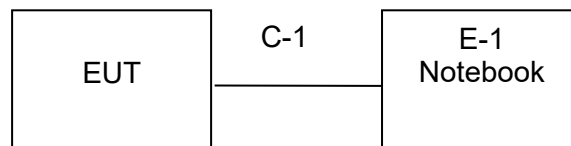
Radiated Spurious Emission Test



AC Conducted Emission Test



RF Conducted Test





2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Notebook	DELL	Inspiron 3501	N/A
E-2	Adapter	ZTC	NB-A515A	N/A
C-1	USB Cable	MI	RYEW3A	N/A

Item	Equipment	Mfr/Brand	Length	Note
C-1	Shielded	NO	150cm	N/A

Note:

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



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2026.02.04	2027.02.03
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2025.09.25	2026.09.24
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2026.03.04	2027.03.03
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2027.02.24
Bilog Antenna	TESEQ	CBL6111D	34678	2025.09.27	2027.09.26
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2025.09.27	2027.09.26
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2025.09.27	2027.09.26
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Band 2.4G-2.5G Filter	HX MICROWAVE	HXLBQ-DZA61	N/A	2025.09.23	2026.09.22
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
RF Coaxial Cable	LEITAI M-WAVE	CA360	DC-18G	N/A	N/A
RF Coaxial Cable)	LEITAI M-WAVE	CA360	DC-18G	N/A	N/A
RF Coaxial Cable)	LEITAI M-WAVE	CA3507	DC-40G	N/A	N/A
RF Coaxial Cable)	LEITAI M-WAVE	CA3507	DC-40G	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENG FENG	DPS-305AF	17064939	2025.09.22	2026.09.21
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			
Conduction Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2025.09.25	2026.09.24
Limiter	CYBERTEK	EM5010	N/A	2025.09.25	2026.09.24
LISN	R&S	ENV216	101242	2025.09.25	2026.09.24
LISN	EMCO	3810/2NM	23625	2025.09.25	2026.09.24
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Test SW	EZ-EMC	Ver.STSLAB-03A1 CE			
RF Connected Test					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2026.02.04	2027.02.03
Pulse Power Sensor	Anritsu	MA2411B	917389	2025.09.23	2026.09.22
Power Meter	Anritsu	ML2480	1005127	2025.09.23	2026.09.22
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
RF Coaxial Cable	XINQY	CT26PE	DC-26.5G	N/A	N/A
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2026.02.04	2027.02.03
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Test SW	MW	MTS 8310_2.0.0.0			



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

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 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.

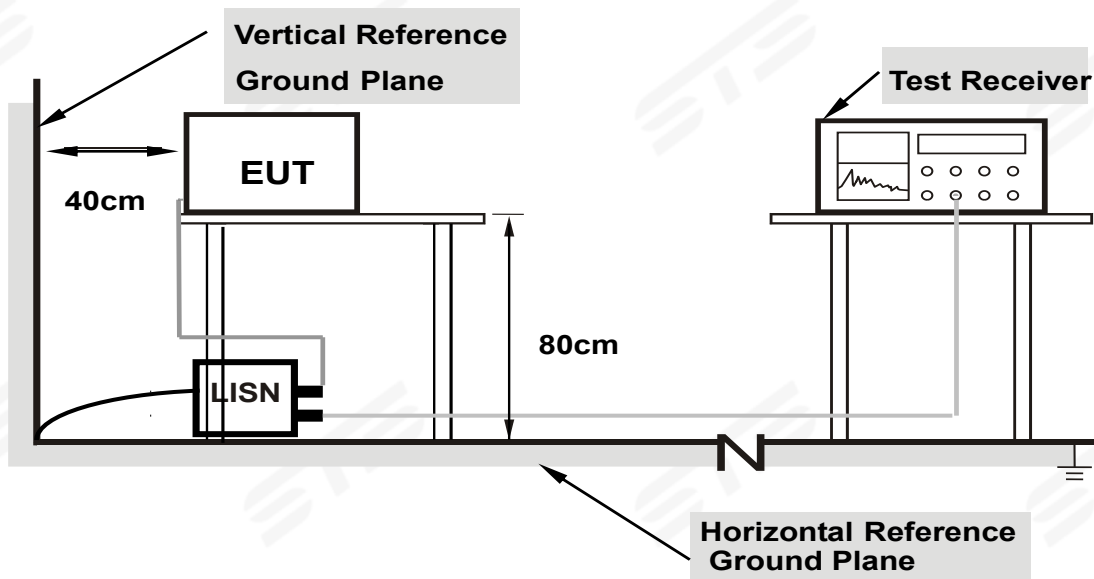
The following table is the setting of the receiver

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

3.1.2 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.



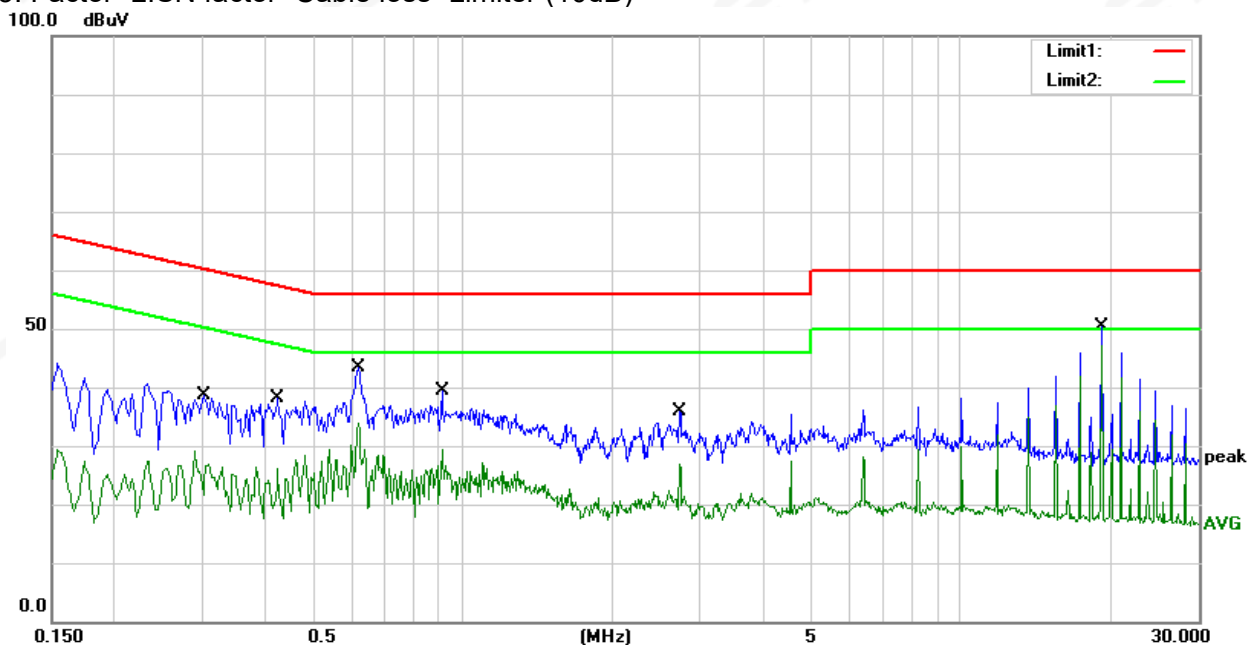
3.1.5 TEST RESULT

Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 19		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.3020	19.31	19.36	38.67	60.19	-21.52	QP
2	0.3020	9.79	19.36	29.15	50.19	-21.04	AVG
3	0.4260	18.61	19.39	38.00	57.33	-19.33	QP
4	0.4260	8.17	19.39	27.56	47.33	-19.77	AVG
5	0.6180	23.98	19.38	43.36	56.00	-12.64	QP
6	0.6180	14.58	19.38	33.96	46.00	-12.04	AVG
7	0.9100	19.91	19.36	39.27	56.00	-16.73	QP
8	0.9100	10.11	19.36	29.47	46.00	-16.53	AVG
9	2.7340	16.57	19.38	35.95	56.00	-20.05	QP
10	2.7340	7.55	19.38	26.93	46.00	-19.07	AVG
11	19.1540	30.72	19.76	50.48	60.00	-9.52	QP
12	19.1540	27.24	19.76	47.00	50.00	-3.00	AVG

Remark:

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



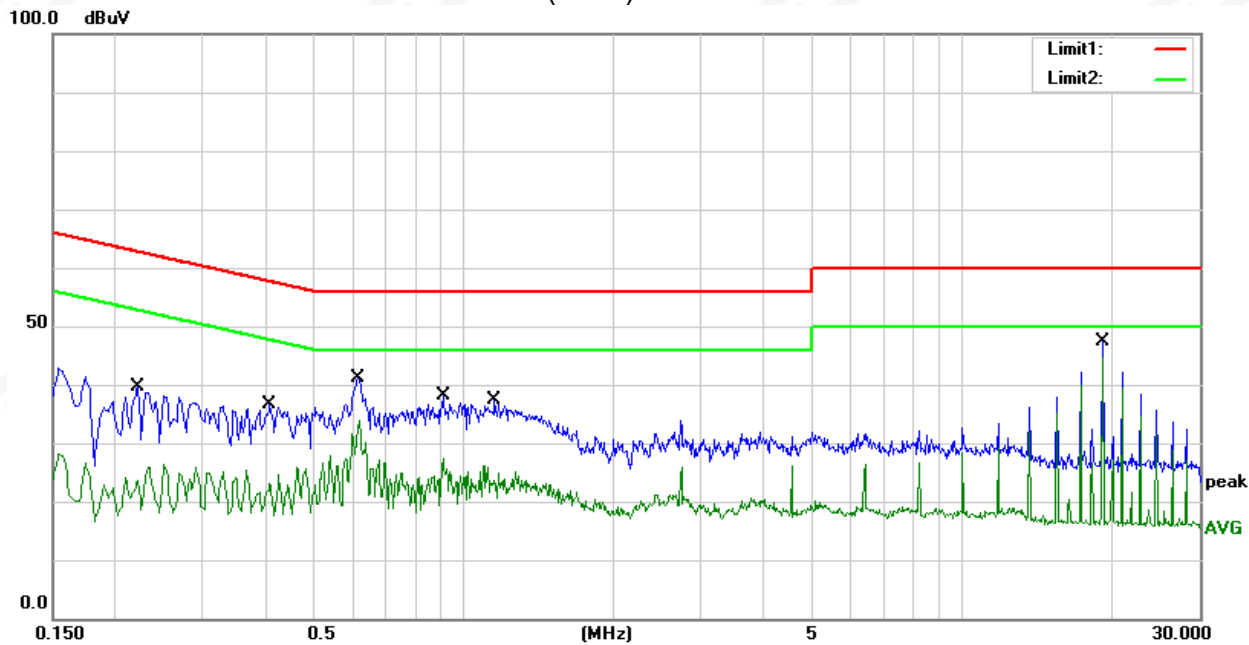


Temperature:	25.1℃	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 19		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2220	20.36	19.37	39.73	62.74	-23.01	QP
2	0.2220	6.89	19.37	26.26	52.74	-26.48	AVG
3	0.4100	17.23	19.35	36.58	57.65	-21.07	QP
4	0.4100	6.02	19.35	25.37	47.65	-22.28	AVG
5	0.6140	21.83	19.37	41.20	56.00	-14.80	QP
6	0.6140	14.62	19.37	33.99	46.00	-12.01	AVG
7	0.9100	18.64	19.40	38.04	56.00	-17.96	QP
8	0.9100	8.09	19.40	27.49	46.00	-18.51	AVG
9	1.1580	18.00	19.39	37.39	56.00	-18.61	QP
10	1.1580	6.79	19.39	26.18	46.00	-19.82	AVG
11	19.1540	27.38	19.89	47.27	60.00	-12.73	QP
12	19.1540	24.75	19.89	44.64	50.00	-5.36	AVG

Remark:

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





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 C63.10-2020 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

3.2.2 TEST PROCEDURE

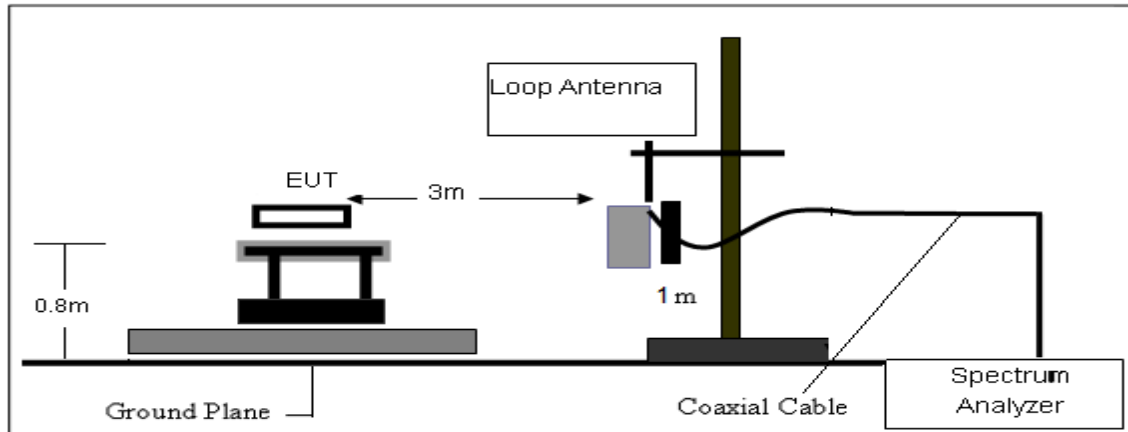
- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position 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:

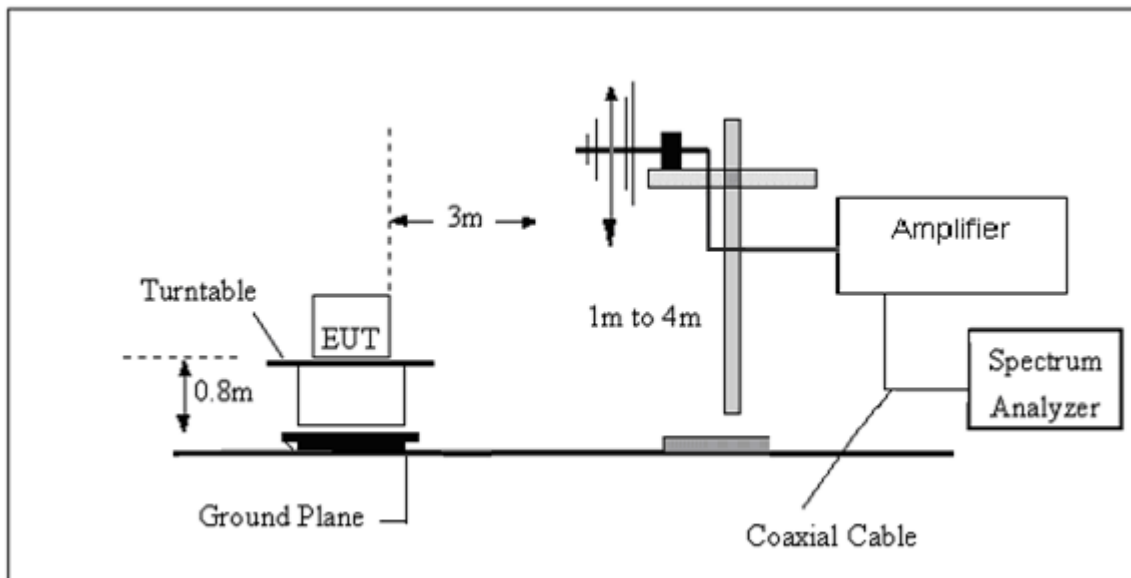
Both horizontal and vertical antenna polarities were tested with a band-stop filter and performed pretest to three orthogonal axis. The worst-case emissions were reported.

3.2.3 TEST SETUP

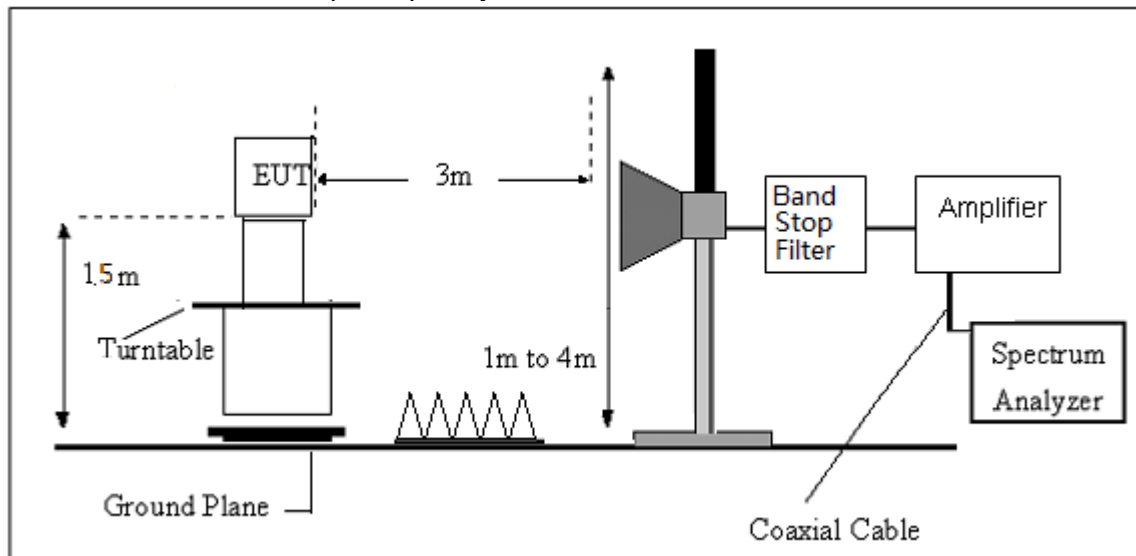
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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)	(dB μ V/m)	(dB μ V/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

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

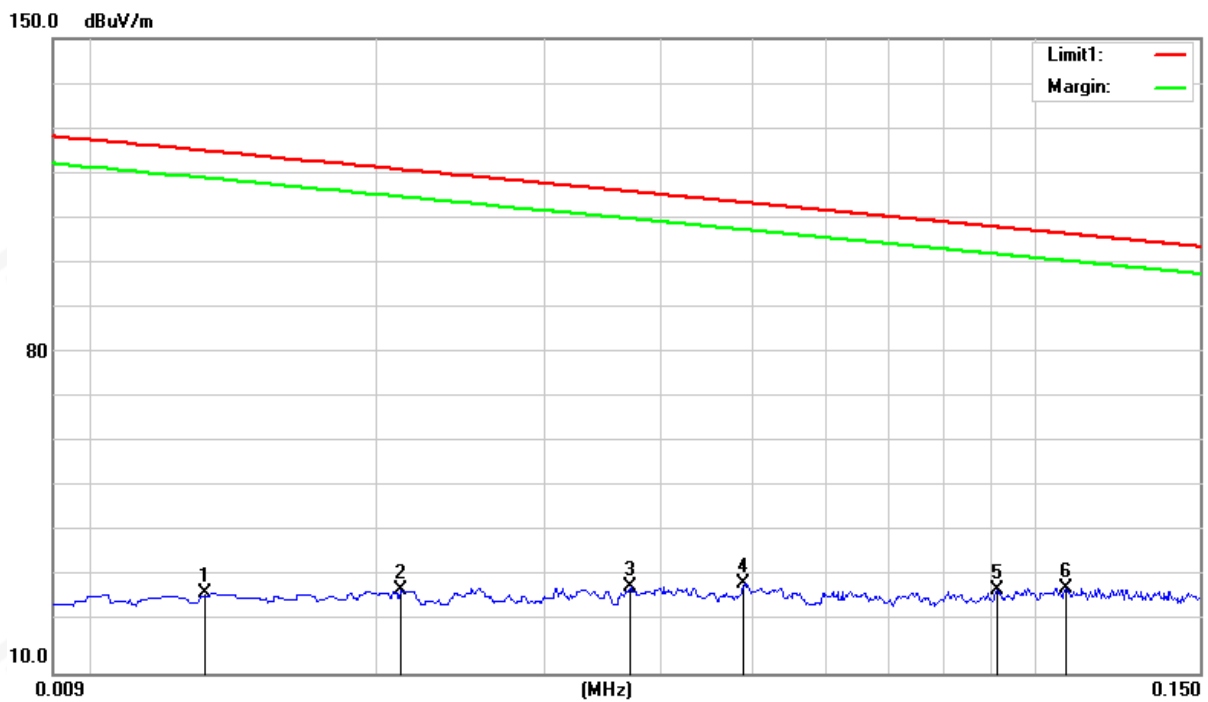


3.2.6 TEST RESULT

9K-150K

Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Polarization:	--
Test Mode:	Mode 1~18 (Mode14 worst mode)		

No.	Frequency (KHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0131	8.17	19.60	27.77	125.26	-97.49	peak
2	0.0211	8.18	20.08	28.26	121.12	-92.86	peak
3	0.0371	9.24	19.76	29.00	116.22	-87.22	peak
4	0.0490	10.12	19.52	29.64	113.80	-84.16	peak
5	0.0912	10.23	18.02	28.25	108.40	-80.15	peak
6	0.1080	11.18	17.58	28.76	106.94	-78.18	peak

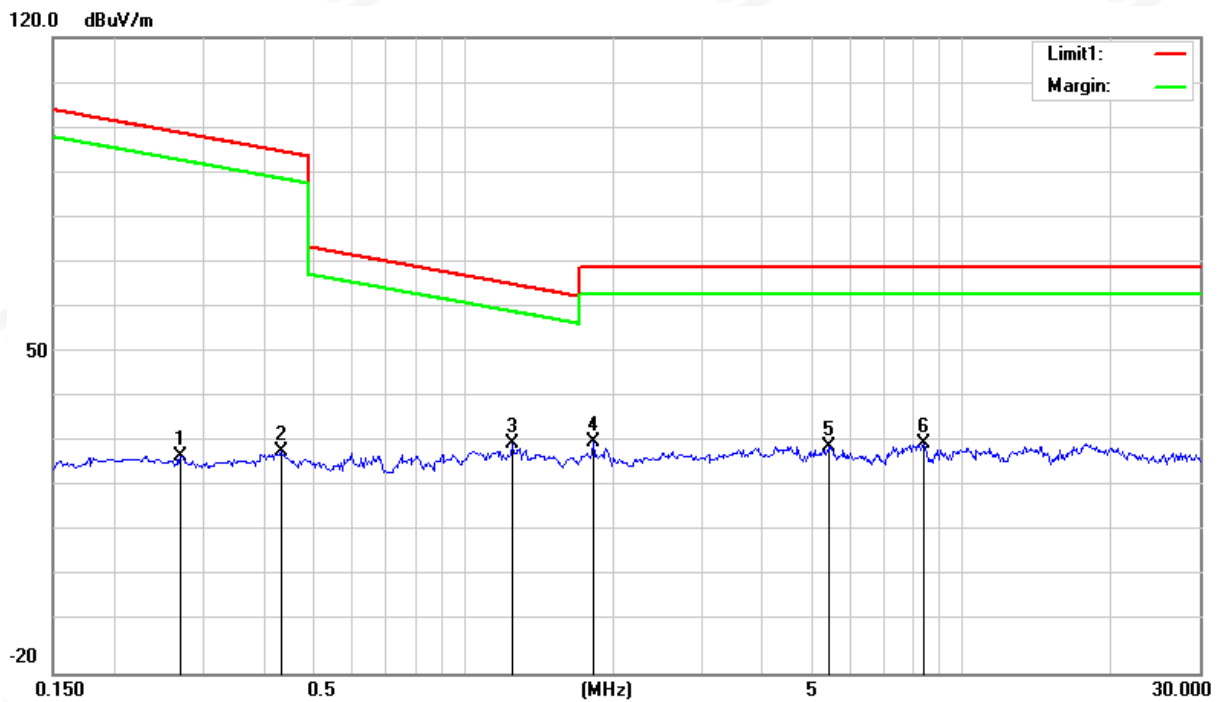




150K-30M

Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Polarization:	--
Test Mode:	Mode 1~18 (Mode14 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.2701	7.72	20.11	27.83	98.97	-71.14	peak
2	0.4304	8.51	20.17	28.68	94.93	-66.25	peak
3	1.2540	10.18	20.25	30.43	65.64	-35.21	peak
4	1.8216	10.50	20.36	30.86	69.50	-38.64	peak
5	5.4035	9.43	20.48	29.91	69.50	-39.59	peak
6	8.3886	10.39	20.30	30.69	69.50	-38.81	peak





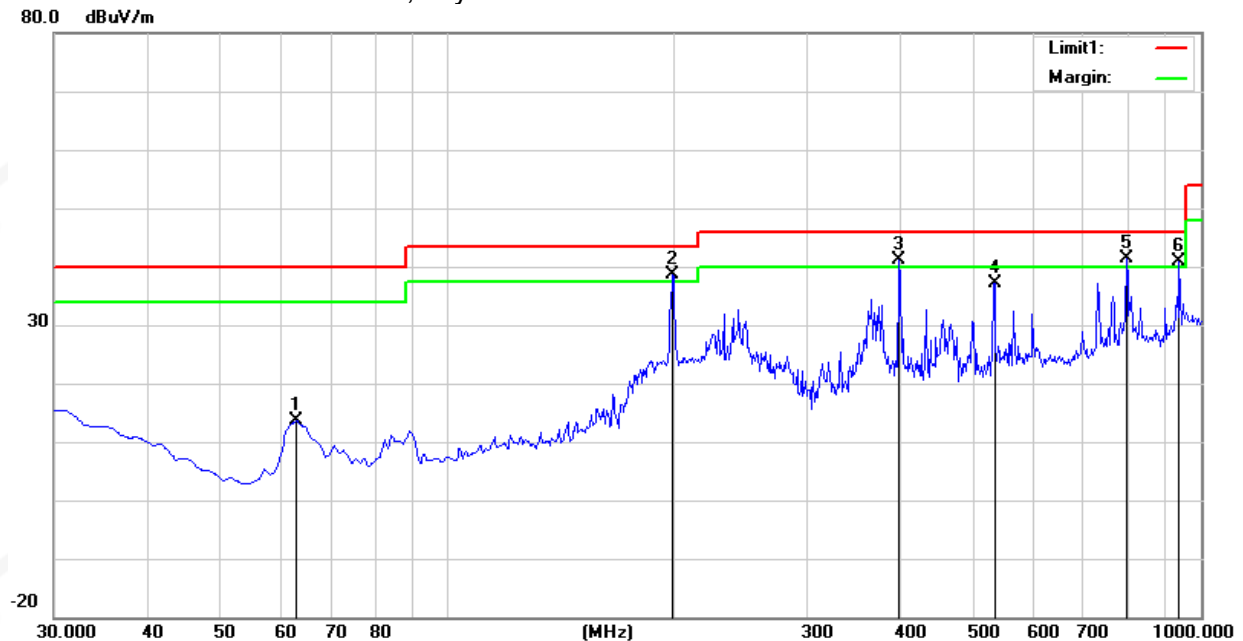
(30MHz - 1000MHz)

Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	Mode 1~18 (Mode14 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	62.9800	39.35	-25.70	13.65	40.00	-26.35	peak
2	198.7800	59.69	-21.12	38.57	43.50	-4.93	peak
3	398.6000	52.43	-11.20	41.23	46.00	-4.77	peak
4	533.4300	44.44	-7.25	37.19	46.00	-8.81	peak
5	797.2700	43.30	-2.03	41.27	46.00	-4.73	peak
6	935.9800	39.91	1.04	40.95	46.00	-5.05	peak

Remark:

1. Margin = Result (Result = Reading + Factor) - Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) - Amplifier gain
3. All modes have been tested, only show the worst case.





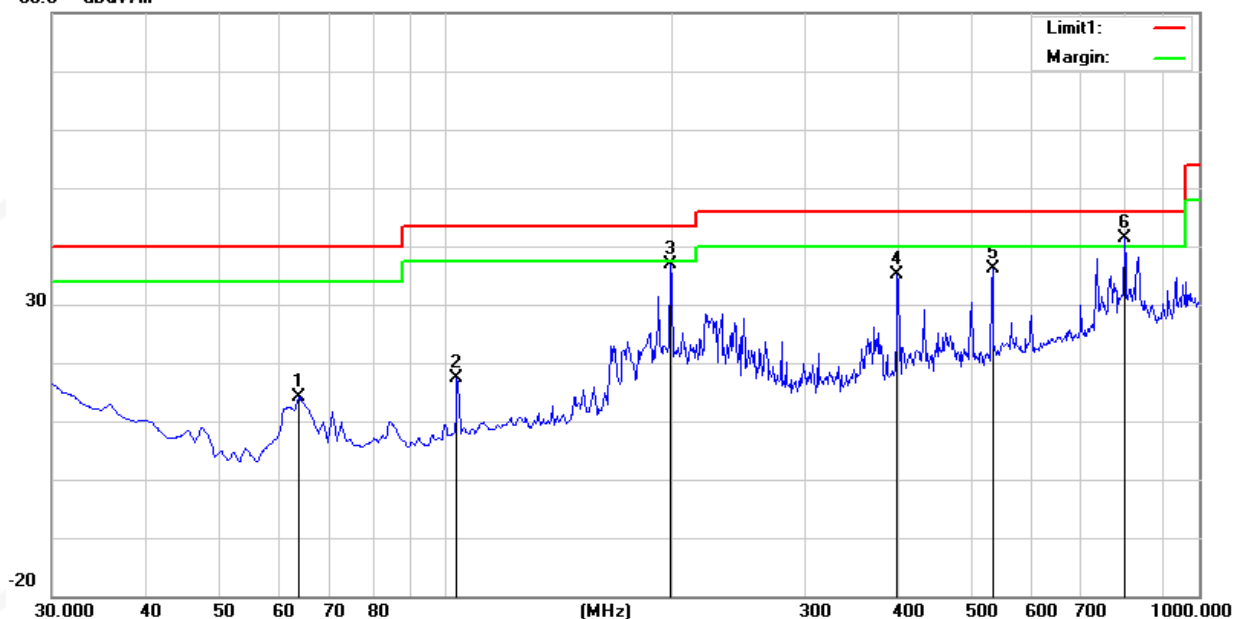
Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	Mode 1~18 (Mode14 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	63.9500	39.71	-25.64	14.07	40.00	-25.93	peak
2	103.7200	37.14	-19.73	17.41	43.50	-26.09	peak
3	198.7800	58.12	-21.12	37.00	43.50	-6.50	peak
4	398.6000	46.24	-11.20	35.04	46.00	-10.96	peak
5	533.4300	43.46	-7.25	36.21	46.00	-9.79	peak
6	798.2400	43.47	-2.03	41.44	46.00	-4.56	peak

Remark:.

1. Margin = Result (Result =Reading + Factor)-Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
3. All modes have been tested,only show the worst case.

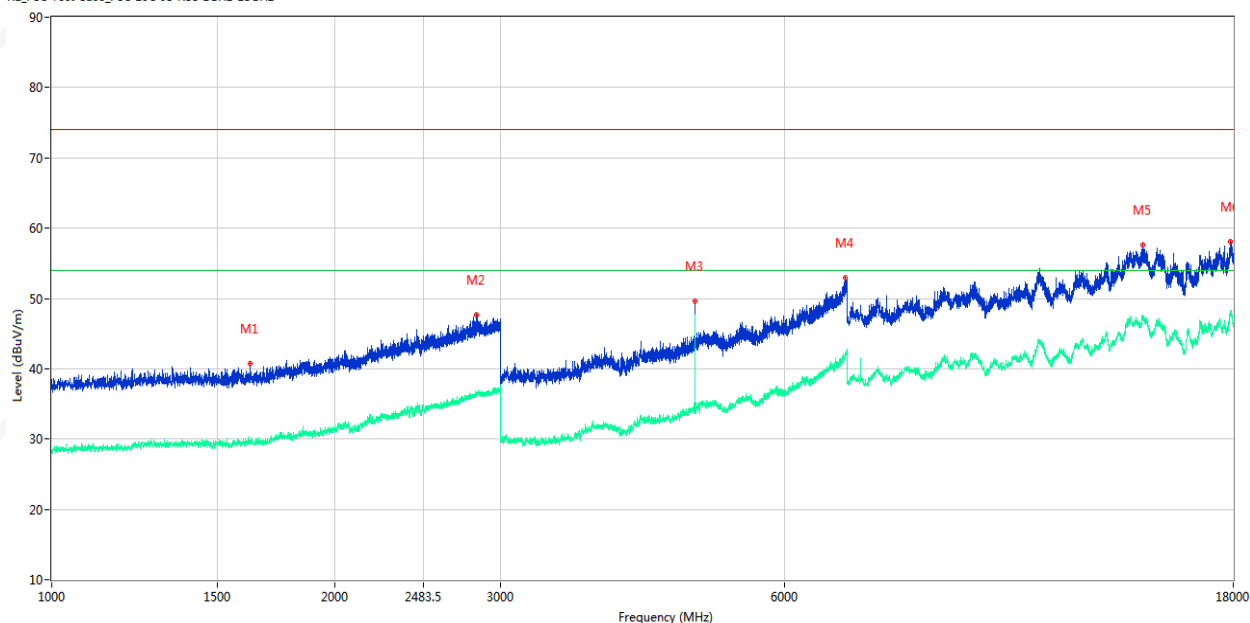
80.0 dBuV/m





(1000MHz-25GHz) Spurious emission Requirements
Low Channel
Horizontal

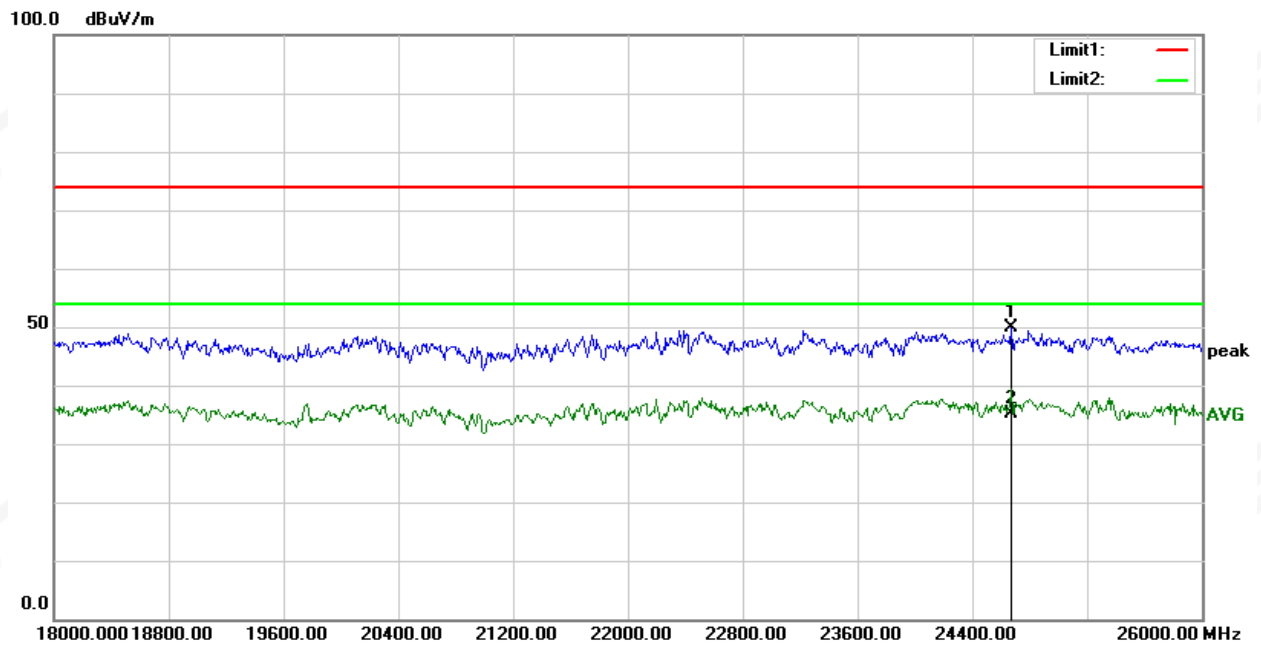
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1626.500	40.69	-0.96	74.0	-33.31	Peak	62.00	Horizontal	Pass
1**	1626.500	29.33	-0.96	54.0	-24.67	AV	62.00	Horizontal	Pass
2	2827.000	47.63	4.88	74.0	-26.37	Peak	93.60	Horizontal	Pass
2**	2827.000	36.41	4.88	54.0	-17.59	AV	93.60	Horizontal	Pass
3	4824.000	49.67	-6.89	74.0	-24.33	Peak	239.00	Horizontal	Pass
3**	4824.000	47.65	-6.89	54.0	-6.35	AV	239.00	Horizontal	Pass
4	6963.000	52.94	1.02	74.0	-21.06	Peak	17.50	Horizontal	Pass
4**	6963.000	42.05	1.02	54.0	-11.95	AV	17.50	Horizontal	Pass
5	14433.250	57.63	6.75	74.0	-16.37	Peak	219.00	Horizontal	Pass
5**	14433.250	47.31	6.75	54.0	-6.69	AV	219.00	Horizontal	Pass
6	17892.749	58.09	7.18	74.0	-15.91	Peak	141.90	Horizontal	Pass
6**	17892.749	47.99	7.18	54.0	-6.01	AV	141.90	Horizontal	Pass



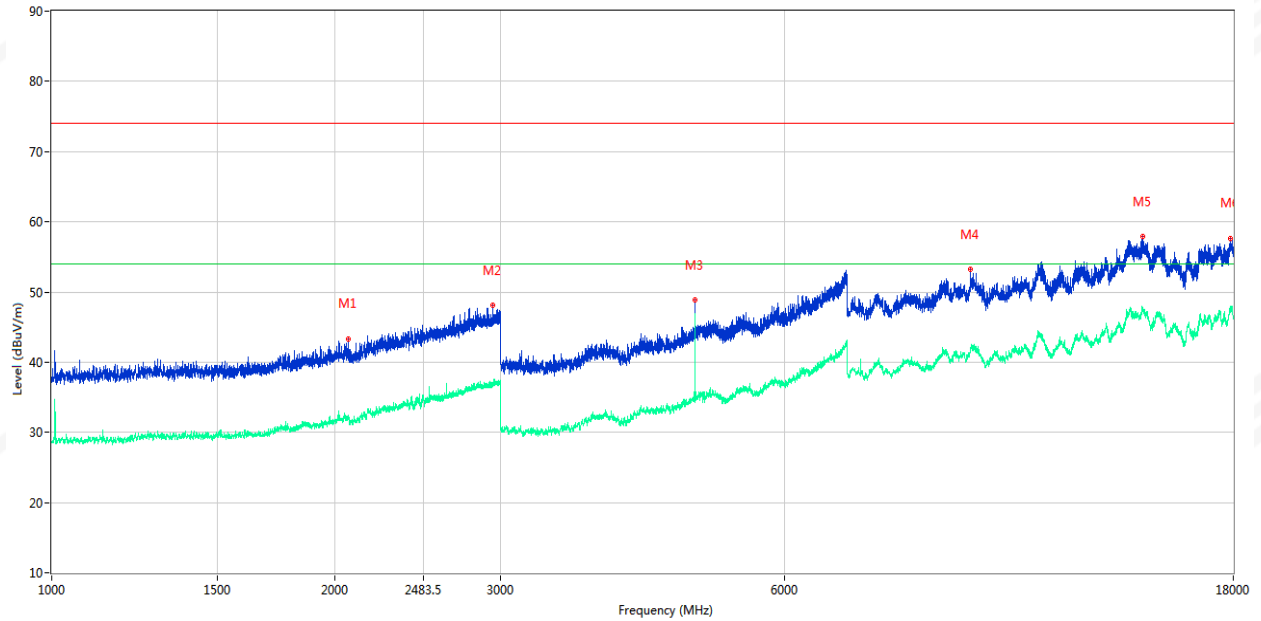
18GHz-26Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/ m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	24672.000	45.06	4.93	49.99	74.00	-24.01	peak
2	24672.000	30.28	4.93	35.21	54.00	-18.79	AVG

Vertical
1GHz-18GHz

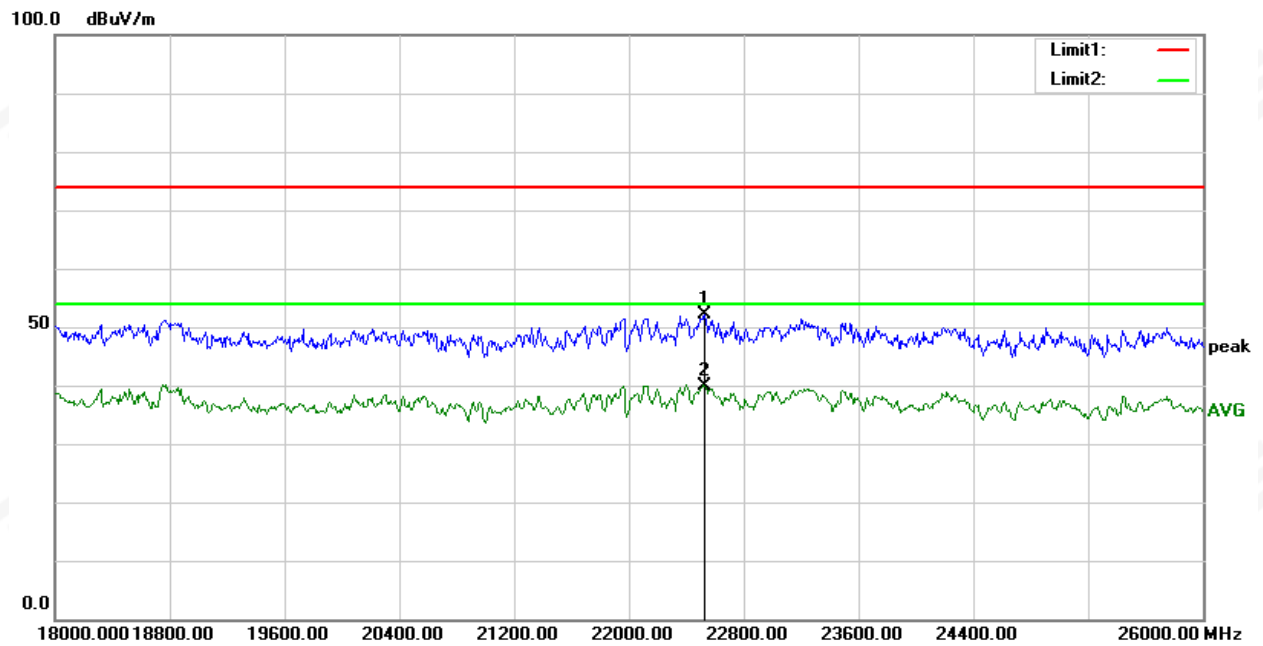
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2065.500	43.36	0.83	74.0	-30.64	Peak	306.00	Vertical	Pass
1**	2065.500	32.22	0.83	54.0	-21.78	AV	306.00	Vertical	Pass
2	2940.000	48.10	5.15	74.0	-25.90	Peak	198.20	Vertical	Pass
2**	2940.000	36.52	5.15	54.0	-17.48	AV	198.20	Vertical	Pass
3	4824.000	48.93	-6.89	74.0	-25.07	Peak	100.30	Vertical	Pass
3**	4824.000	46.94	-6.89	54.0	-7.06	AV	100.30	Vertical	Pass
4	9472.250	53.23	1.38	74.0	-20.77	Peak	283.90	Vertical	Pass
4**	9472.250	42.06	1.38	54.0	-11.94	AV	283.90	Vertical	Pass
5	14419.500	57.95	6.85	74.0	-16.05	Peak	71.60	Vertical	Pass
5**	14419.500	47.34	6.85	54.0	-6.66	AV	71.60	Vertical	Pass
6	17887.250	58.66	7.13	74.0	-15.34	Peak	161.60	Vertical	Pass
6**	17887.250	47.55	7.13	54.0	-6.45	AV	161.60	Vertical	Pass



18GHz-26Hz

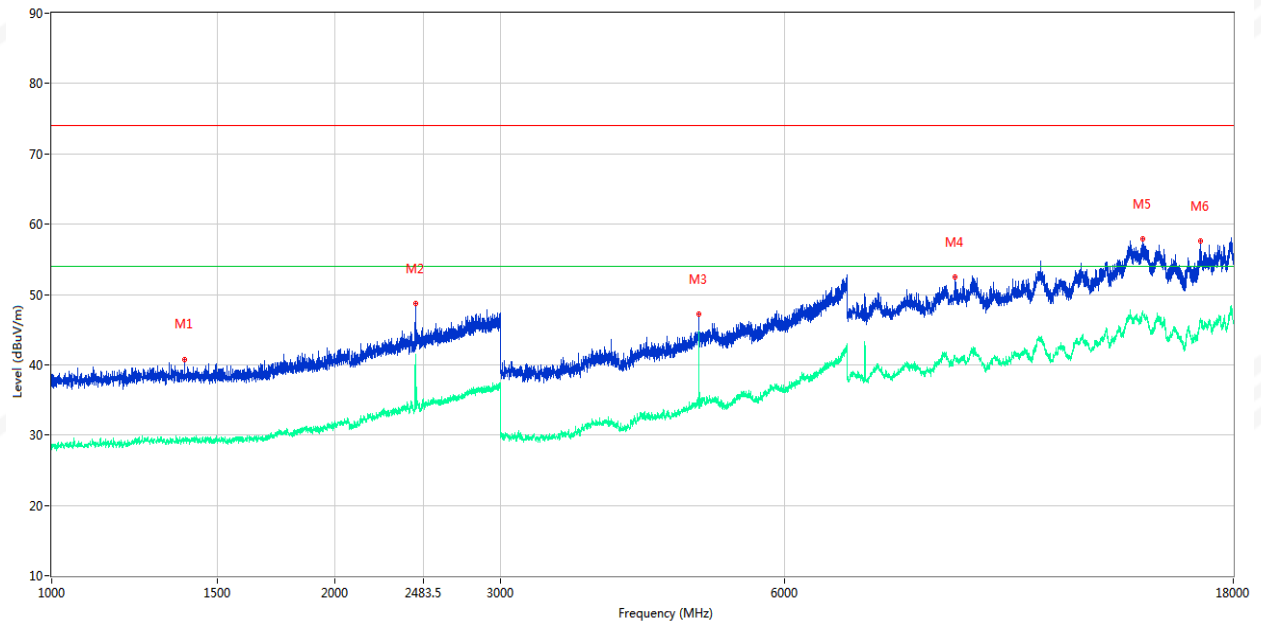


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22528.000	48.33	3.90	52.23	74.00	-21.77	peak
2	22528.000	36.07	3.90	39.97	54.00	-14.03	AVG



Mid Channel
Horizontal
1GHz-18GHz

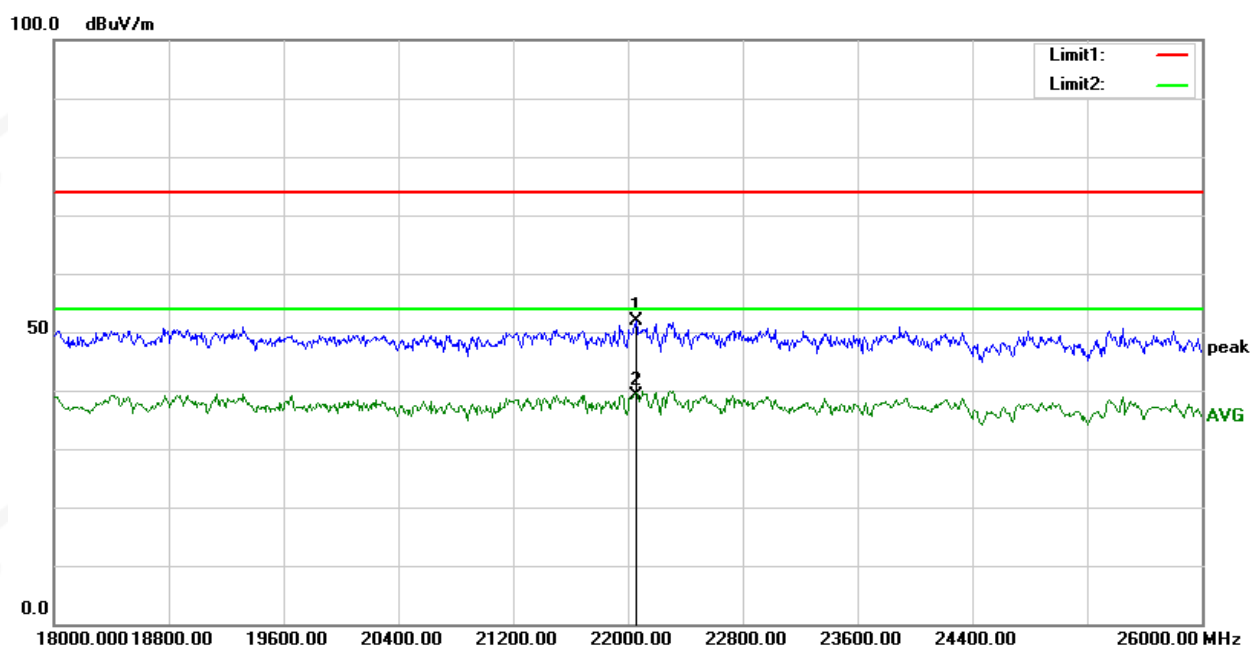
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1384.000	40.79	-1.21	74.0	-33.21	Peak	113.30	Horizontal	Pass
1**	1384.000	29.39	-1.21	54.0	-24.61	AV	113.30	Horizontal	Pass
2	2434.000	48.74	3.19	74.0	-25.26	Peak	197.40	Horizontal	Pass
2**	2434.000	41.09	3.19	54.0	-12.91	AV	197.40	Horizontal	Pass
3	4874.000	47.14	-6.35	74.0	-26.86	Peak	143.30	Horizontal	Pass
3**	4874.000	44.87	-6.35	54.0	-9.13	AV	143.30	Horizontal	Pass
4	9106.500	52.47	0.45	74.0	-21.53	Peak	130.40	Horizontal	Pass
4**	9106.500	41.40	0.45	54.0	-12.60	AV	130.40	Horizontal	Pass
5	14416.750	57.96	6.87	74.0	-16.04	Peak	320.60	Horizontal	Pass
5**	14416.750	47.28	6.87	54.0	-6.72	AV	320.60	Horizontal	Pass
6	16597.500	57.56	5.12	74.0	-16.44	Peak	307.50	Horizontal	Pass
6**	16597.500	46.36	5.12	54.0	-7.64	AV	307.50	Horizontal	Pass



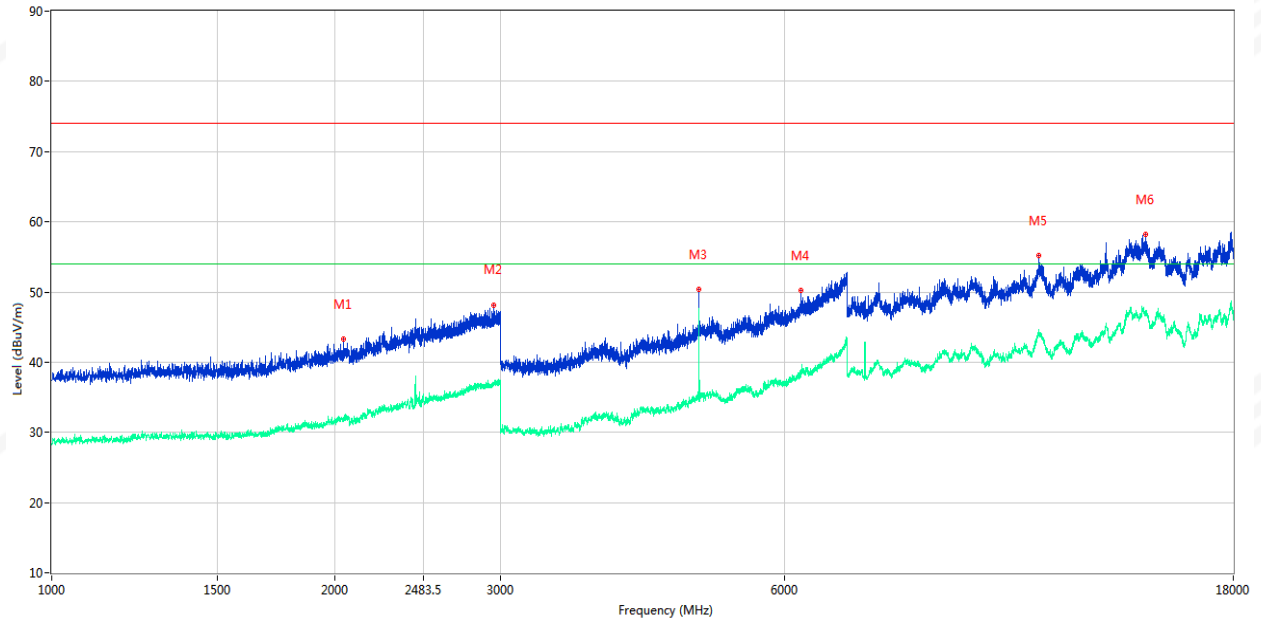
18GHz-26Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22056.000	48.33	3.47	51.80	74.00	-22.20	peak
2	22056.000	35.61	3.47	39.08	54.00	-14.92	AVG

Vertical
1GHz-18GHz

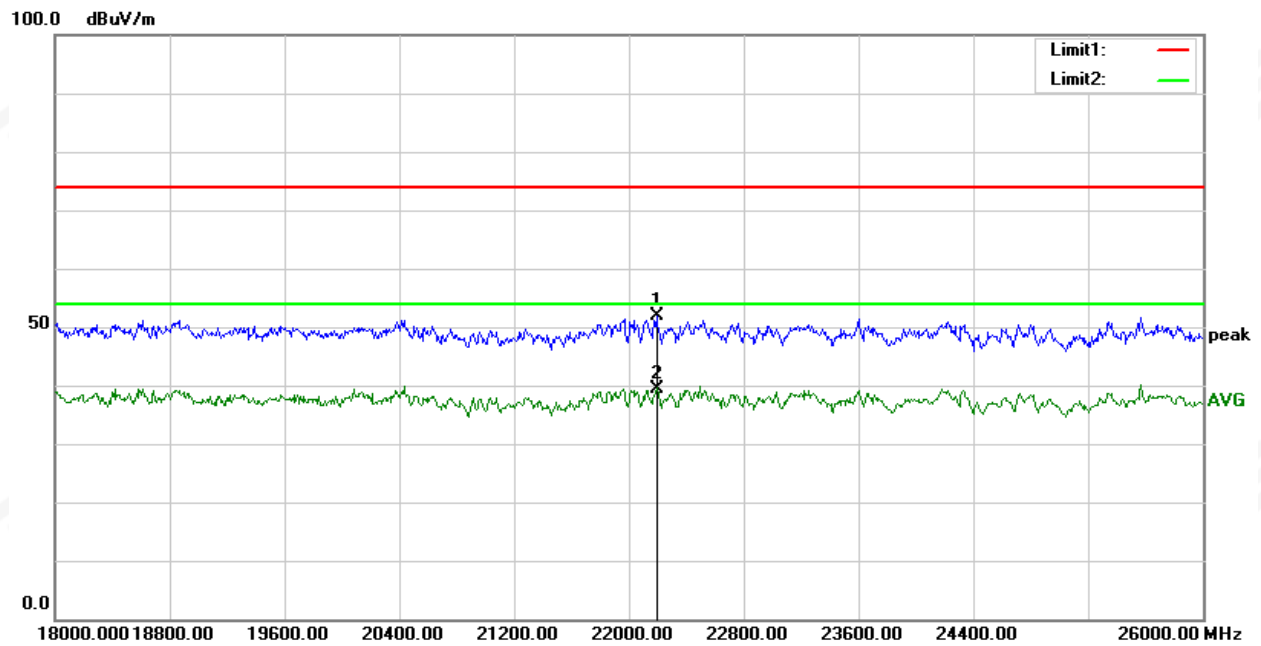
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2042.000	43.33	0.75	74.0	-30.67	Peak	0.10	Vertical	Pass
1**	2042.000	31.78	0.75	54.0	-22.22	AV	0.10	Vertical	Pass
2	2948.000	48.18	5.20	74.0	-25.82	Peak	245.40	Vertical	Pass
2**	2948.000	36.87	5.20	54.0	-17.13	AV	245.40	Vertical	Pass
3	4874.000	50.39	-6.35	74.0	-23.61	Peak	96.60	Vertical	Pass
3**	4874.000	47.64	-6.35	54.0	-6.36	AV	96.60	Vertical	Pass
4	6251.000	50.27	-2.15	74.0	-23.73	Peak	140.10	Vertical	Pass
4**	6251.000	38.50	-2.15	54.0	-15.50	AV	140.10	Vertical	Pass
5	11185.500	55.21	2.54	74.0	-18.79	Peak	218.60	Vertical	Pass
5**	11185.500	44.60	2.54	54.0	-9.40	AV	218.60	Vertical	Pass
6	14518.500	58.20	6.29	74.0	-15.80	Peak	107.00	Vertical	Pass
6**	14518.500	47.00	6.29	54.0	-7.00	AV	107.00	Vertical	Pass



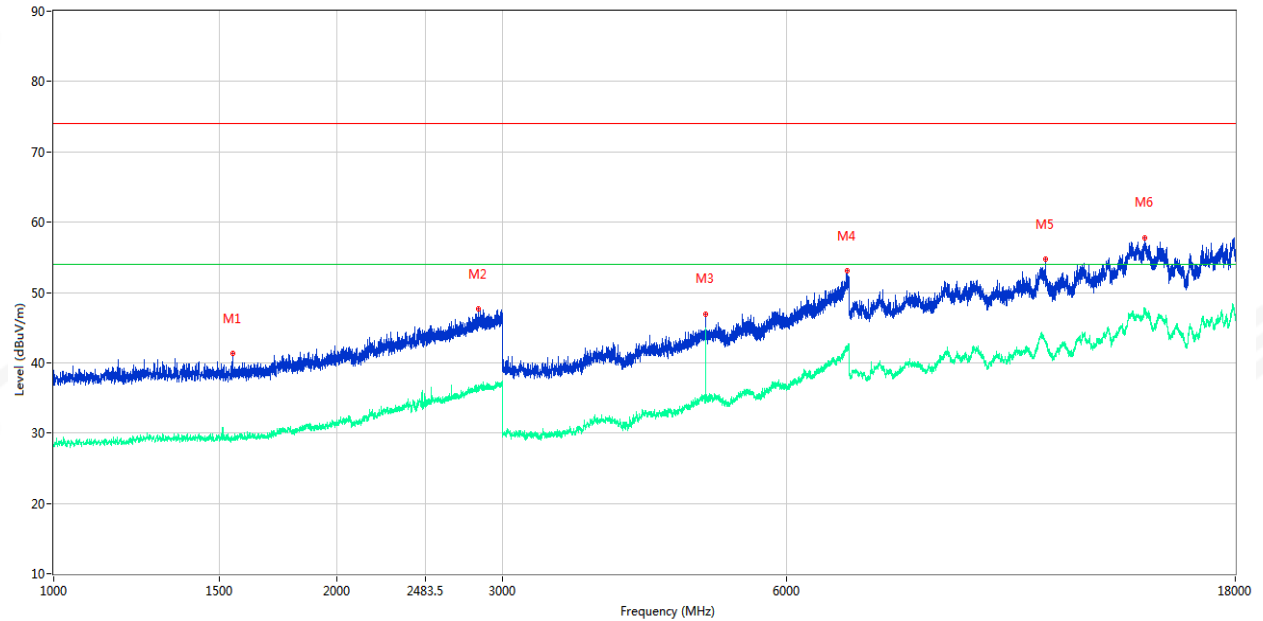
18GHz-26Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22192.000	48.29	3.61	51.90	74.00	-22.10	peak
2	22192.000	35.65	3.61	39.26	54.00	-14.74	AVG

High Channel
Horizontal
1GHz-18GHz

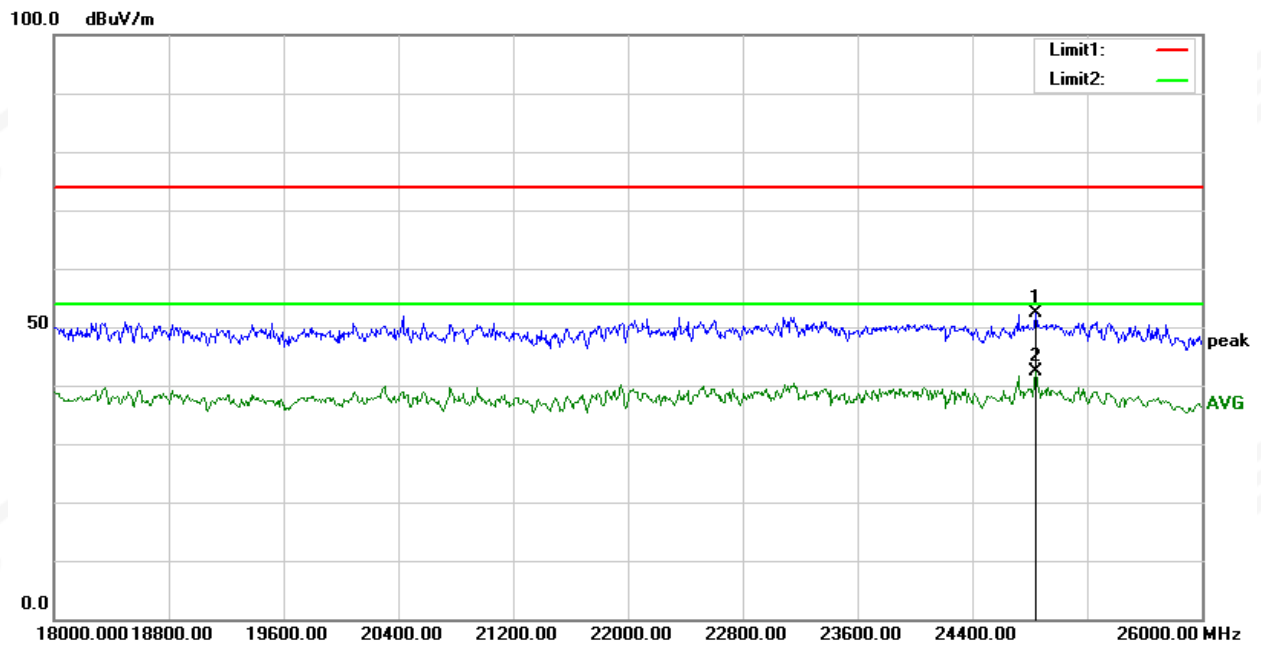
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1548.500	41.30	-1.09	74.0	-32.70	Peak	131.50	Horizontal	Pass
1**	1548.500	29.29	-1.09	54.0	-24.71	AV	131.50	Horizontal	Pass
2	2828.000	47.62	4.89	74.0	-26.38	Peak	21.50	Horizontal	Pass
2**	2828.000	36.53	4.89	54.0	-17.47	AV	21.50	Horizontal	Pass
3	4924.000	46.88	-6.04	74.0	-27.12	Peak	326.90	Horizontal	Pass
3**	4924.000	45.03	-6.04	54.0	-8.97	AV	326.90	Horizontal	Pass
4	6963.000	53.12	1.02	74.0	-20.88	Peak	0.00	Horizontal	Pass
4**	6963.000	41.95	1.02	54.0	-12.05	AV	0.00	Horizontal	Pass
5	11317.500	54.68	2.22	74.0	-19.32	Peak	2.00	Horizontal	Pass
5**	11317.500	43.00	2.22	54.0	-11.00	AV	2.00	Horizontal	Pass
6	14408.500	57.81	6.93	74.0	-16.19	Peak	278.50	Horizontal	Pass
6**	14408.500	47.29	6.93	54.0	-6.71	AV	278.50	Horizontal	Pass



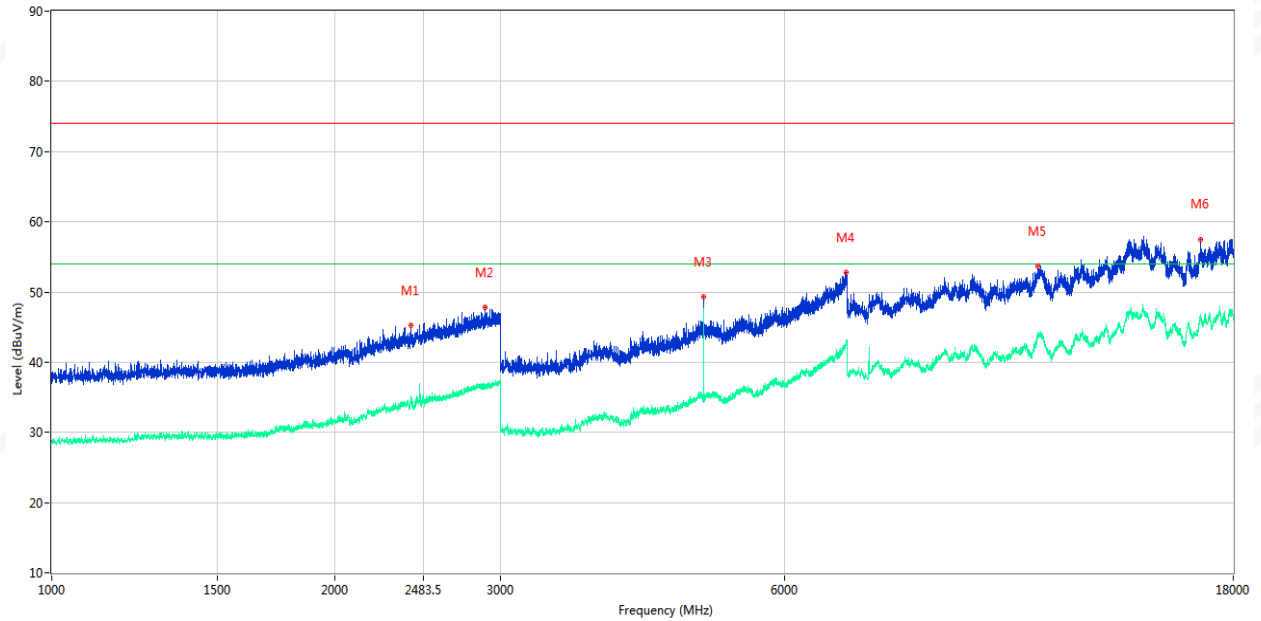
18GHz-26Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	24840.000	47.17	5.12	52.29	74.00	-21.71	peak
2	24840.000	37.37	5.12	42.49	54.00	-11.51	AVG

Vertical
1GHz-18GHz

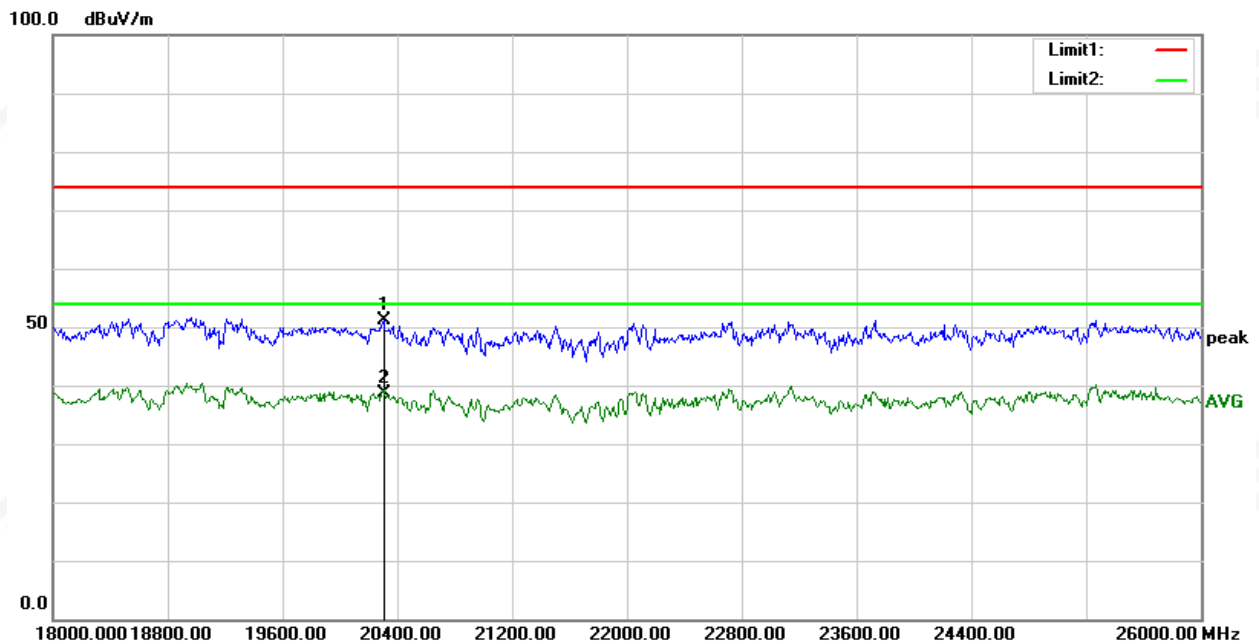
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2408.000	45.26	3.10	74.0	-28.74	Peak	122.30	Vertical	Pass
1**	2408.000	34.58	3.10	54.0	-19.42	AV	122.30	Vertical	Pass
2	2884.000	47.75	4.93	74.0	-26.25	Peak	291.90	Vertical	Pass
2**	2884.000	36.54	4.93	54.0	-17.46	AV	291.90	Vertical	Pass
3	4924.000	49.38	-6.04	74.0	-24.62	Peak	215.70	Vertical	Pass
3**	4924.000	47.71	-6.04	54.0	-6.29	AV	215.70	Vertical	Pass
4	6986.000	52.77	1.21	74.0	-21.23	Peak	336.40	Vertical	Pass
4**	6986.000	42.87	1.21	54.0	-11.13	AV	336.40	Vertical	Pass
5	11149.750	53.71	2.35	74.0	-20.29	Peak	199.60	Vertical	Pass
5**	11149.750	43.68	2.35	54.0	-10.32	AV	199.60	Vertical	Pass
6	16608.500	57.40	5.09	74.0	-16.60	Peak	359.70	Vertical	Pass
6**	16608.500	46.28	5.09	54.0	-7.72	AV	359.70	Vertical	Pass



18GHz-26Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	20304.000	49.13	2.06	51.19	74.00	-22.81	peak
2	20304.000	36.46	2.06	38.52	54.00	-15.48	AVG

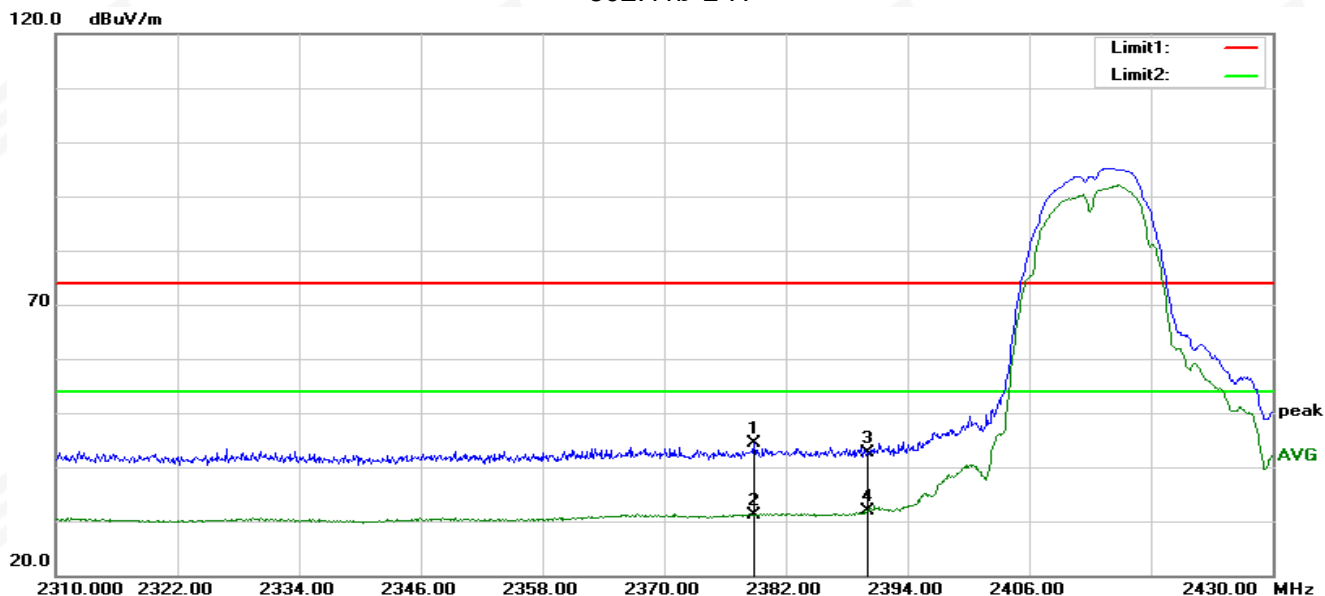
Remark:

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



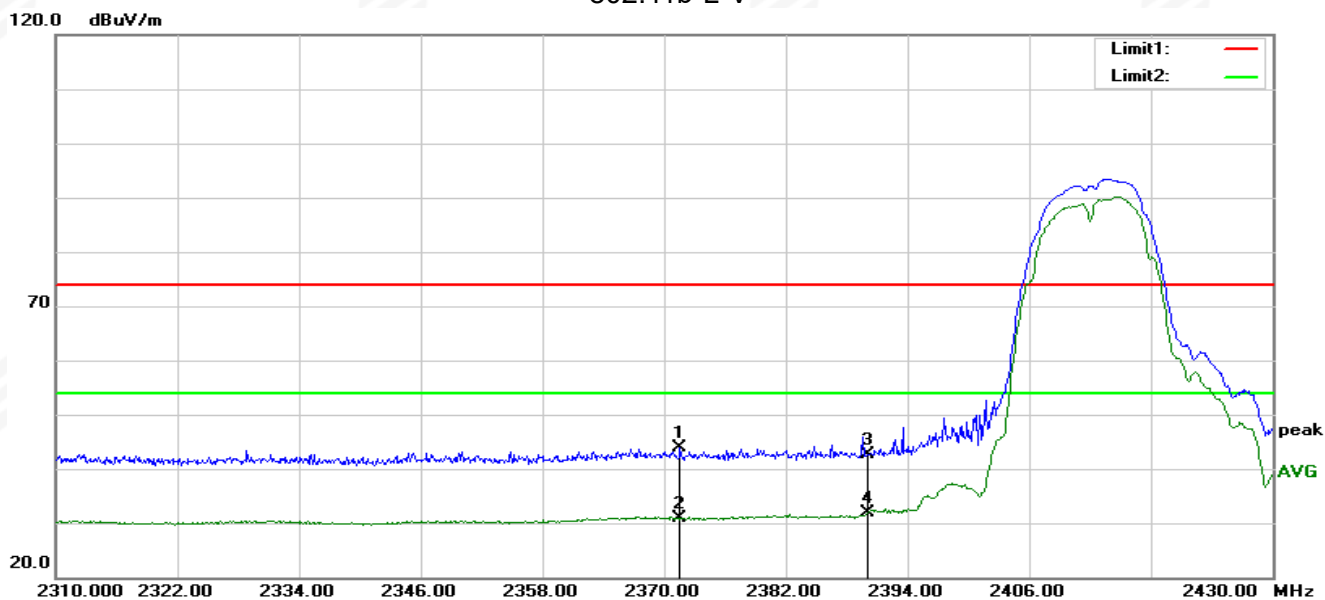
3.2.6 TEST RESULTS(Band edge Requirements)

802.11b-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2378.880	40.09	4.18	44.27	74.00	-29.73	peak
2	2378.880	26.90	4.18	31.08	54.00	-22.92	AVG
3	2390.000	38.24	4.34	42.58	74.00	-31.42	peak
4	2390.000	27.64	4.34	31.98	54.00	-22.02	AVG

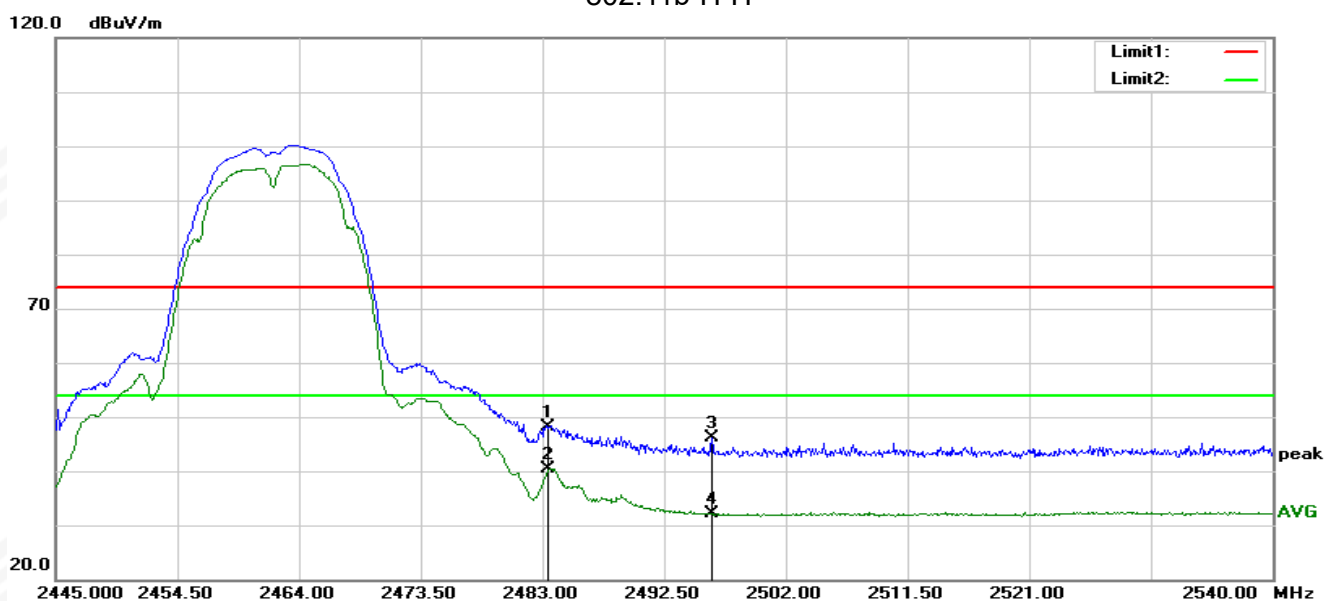
802.11b-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2371.560	39.71	4.06	43.77	74.00	-30.23	peak
2	2371.560	26.80	4.06	30.86	54.00	-23.14	AVG
3	2390.000	38.17	4.34	42.51	74.00	-31.49	peak
4	2390.000	27.45	4.34	31.79	54.00	-22.21	AVG

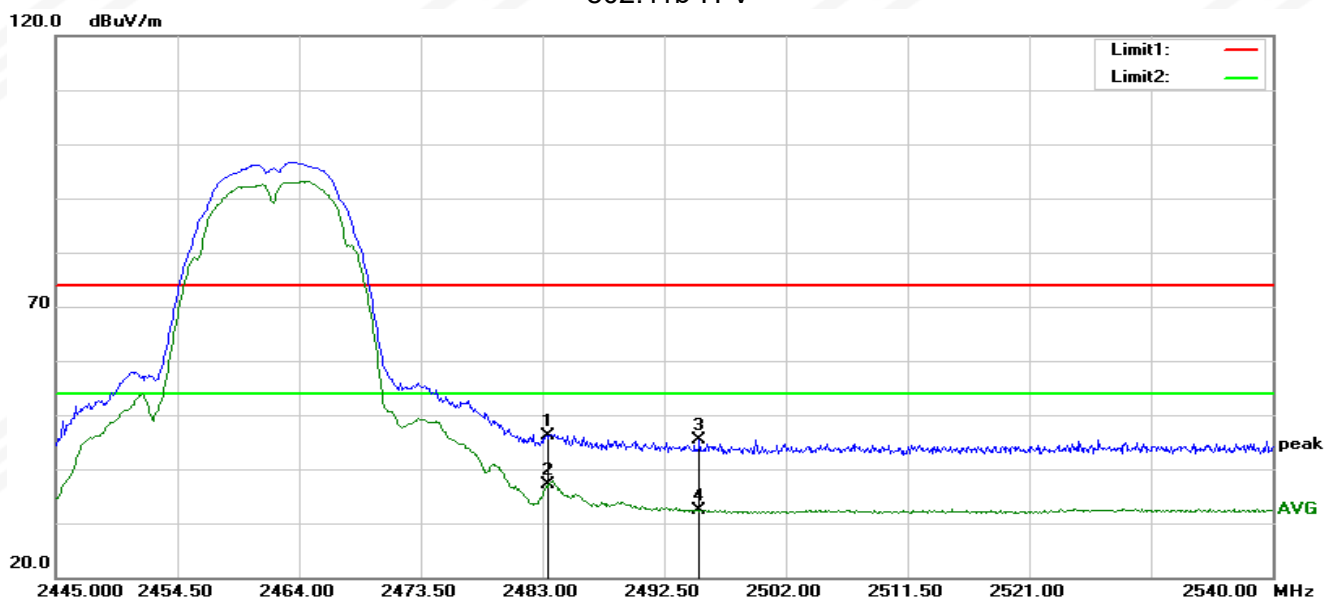


802.11b-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	43.44	4.60	48.04	74.00	-25.96	peak
2	2483.500	35.71	4.60	40.31	54.00	-13.69	AVG
3	2496.205	41.42	4.64	46.06	74.00	-27.94	peak
4	2496.205	27.48	4.64	32.12	54.00	-21.88	AVG

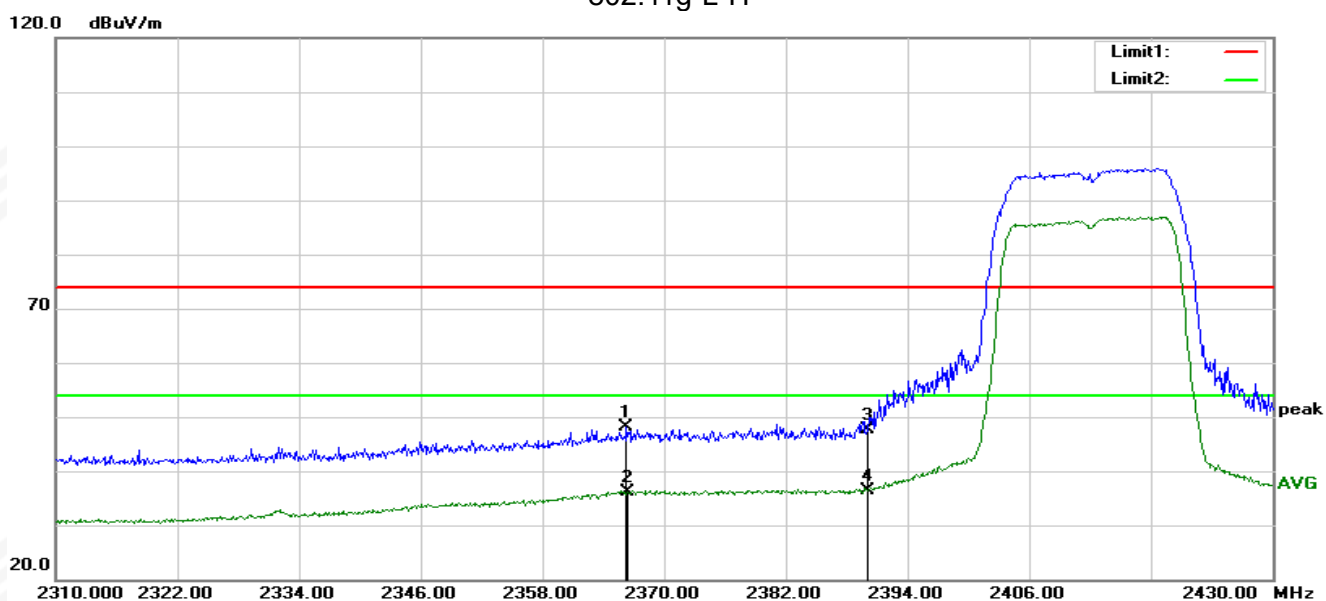
802.11b-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	41.48	4.60	46.08	74.00	-27.92	peak
2	2483.500	32.64	4.60	37.24	54.00	-16.76	AVG
3	2495.255	40.79	4.63	45.42	74.00	-28.58	peak
4	2495.255	27.74	4.63	32.37	54.00	-21.63	AVG

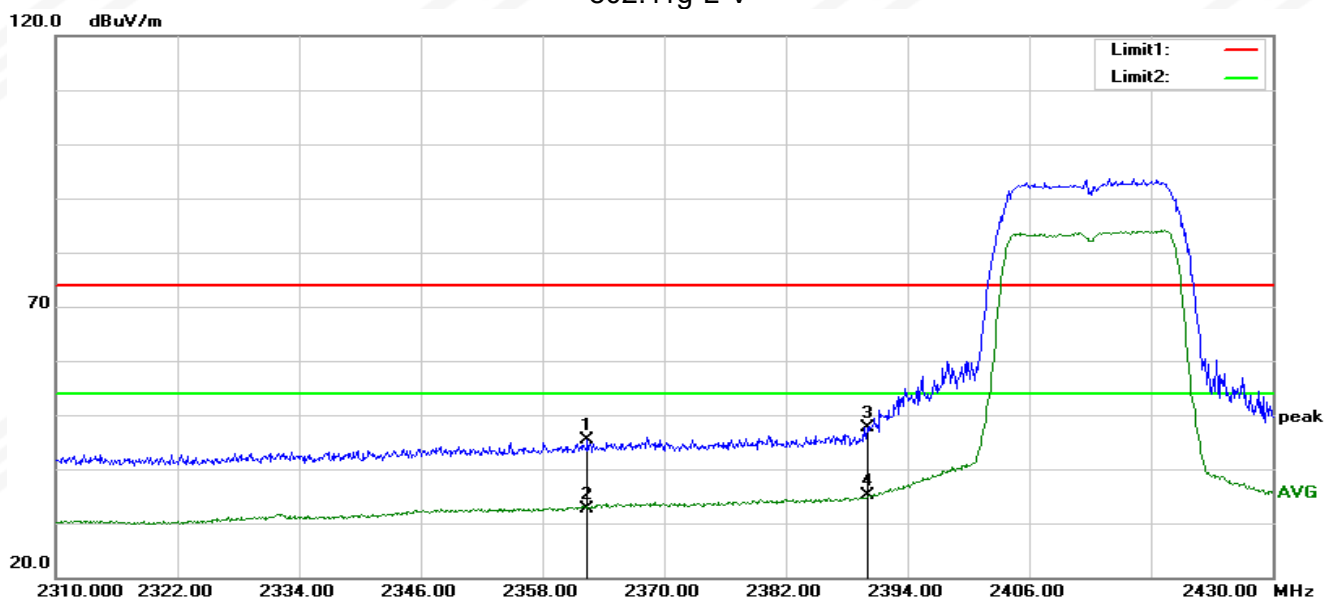


802.11g-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2366.280	44.06	3.99	48.05	74.00	-25.95	peak
2	2366.400	32.10	3.99	36.09	54.00	-17.91	AVG
3	2390.000	43.23	4.34	47.57	74.00	-26.43	peak
4	2390.040	31.96	4.34	36.30	54.00	-17.70	AVG

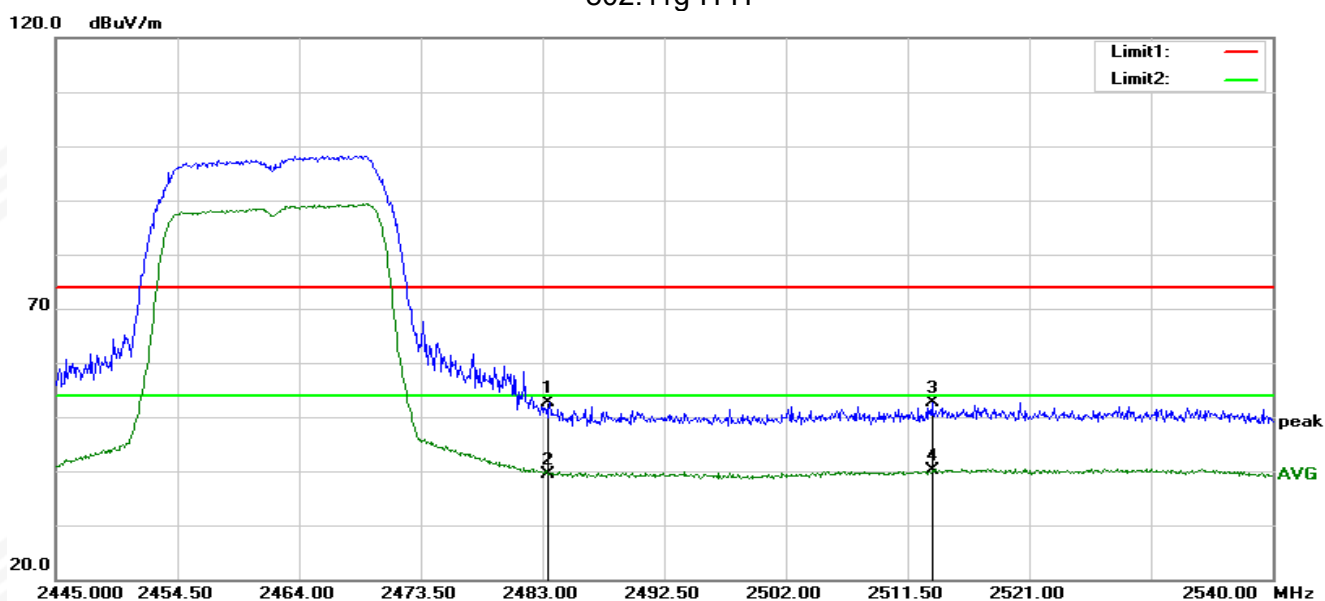
802.11g-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2362.440	41.47	3.92	45.39	74.00	-28.61	peak
2	2362.440	28.83	3.92	32.75	54.00	-21.25	AVG
3	2390.000	43.29	4.34	47.63	74.00	-26.37	peak
4	2390.000	30.76	4.34	35.10	54.00	-18.90	AVG

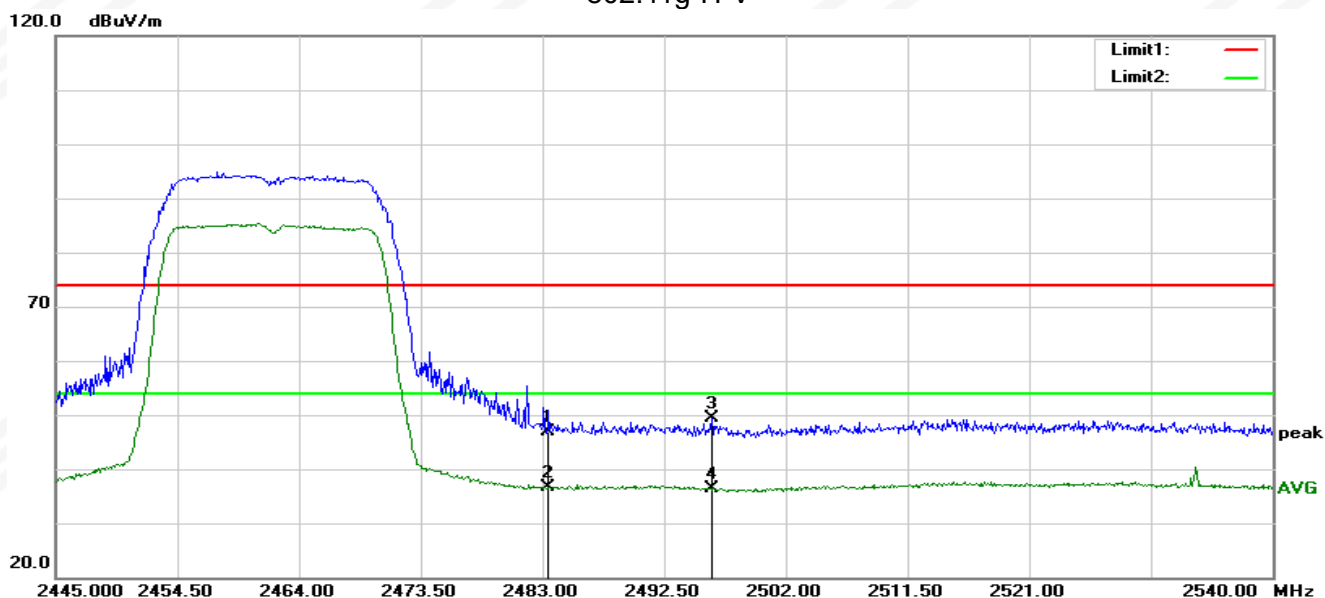


802.11g-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	47.98	4.60	52.58	74.00	-21.42	peak
2	2483.500	34.74	4.60	39.34	54.00	-14.66	AVG
3	2513.400	47.96	4.74	52.70	74.00	-21.30	peak
4	2513.400	35.32	4.74	40.06	54.00	-13.94	AVG

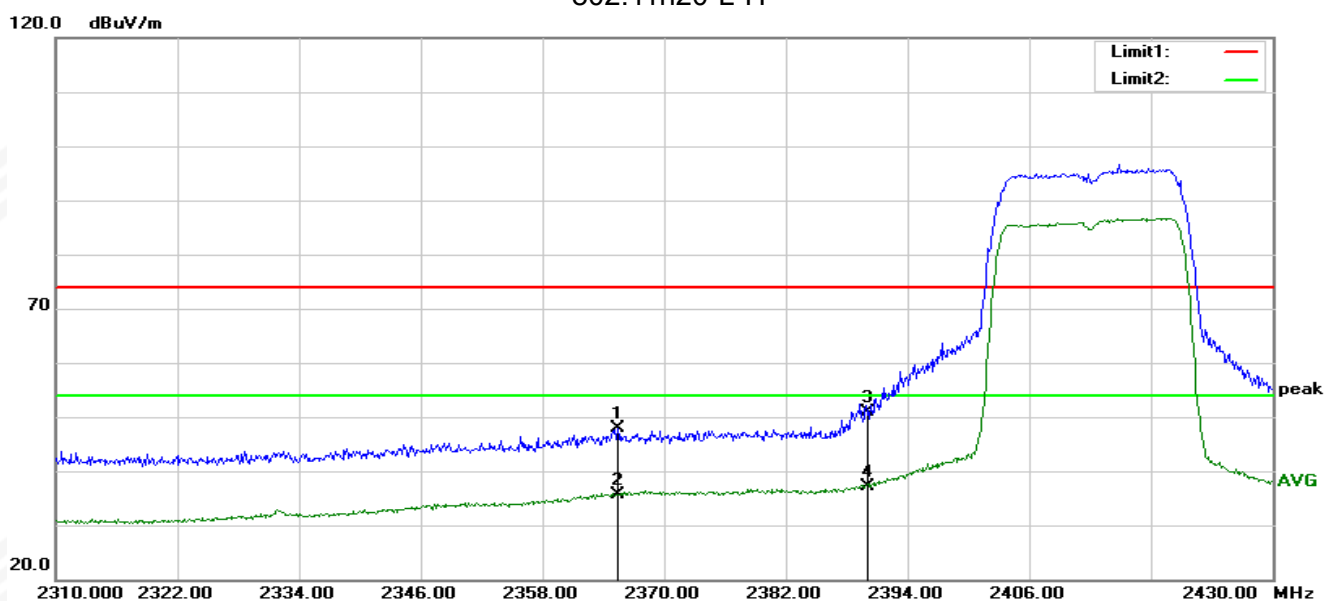
802.11g-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	42.19	4.60	46.79	74.00	-27.21	peak
2	2483.500	32.07	4.60	36.67	54.00	-17.33	AVG
3	2496.205	44.81	4.64	49.45	74.00	-24.55	peak
4	2496.205	31.63	4.64	36.27	54.00	-17.73	AVG

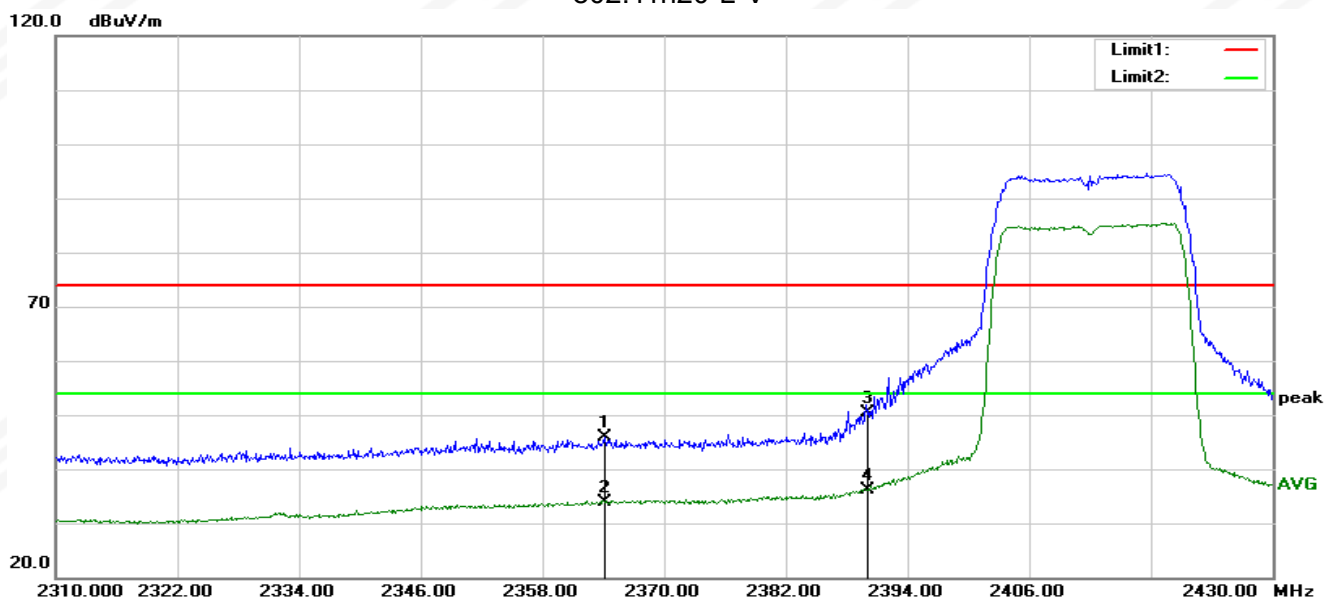


802.11n20-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2365.440	43.95	3.97	47.92	74.00	-26.08	peak
2	2365.440	31.55	3.97	35.52	54.00	-18.48	AVG
3	2390.000	46.55	4.34	50.89	74.00	-23.11	peak
4	2390.000	32.89	4.34	37.23	54.00	-16.77	AVG

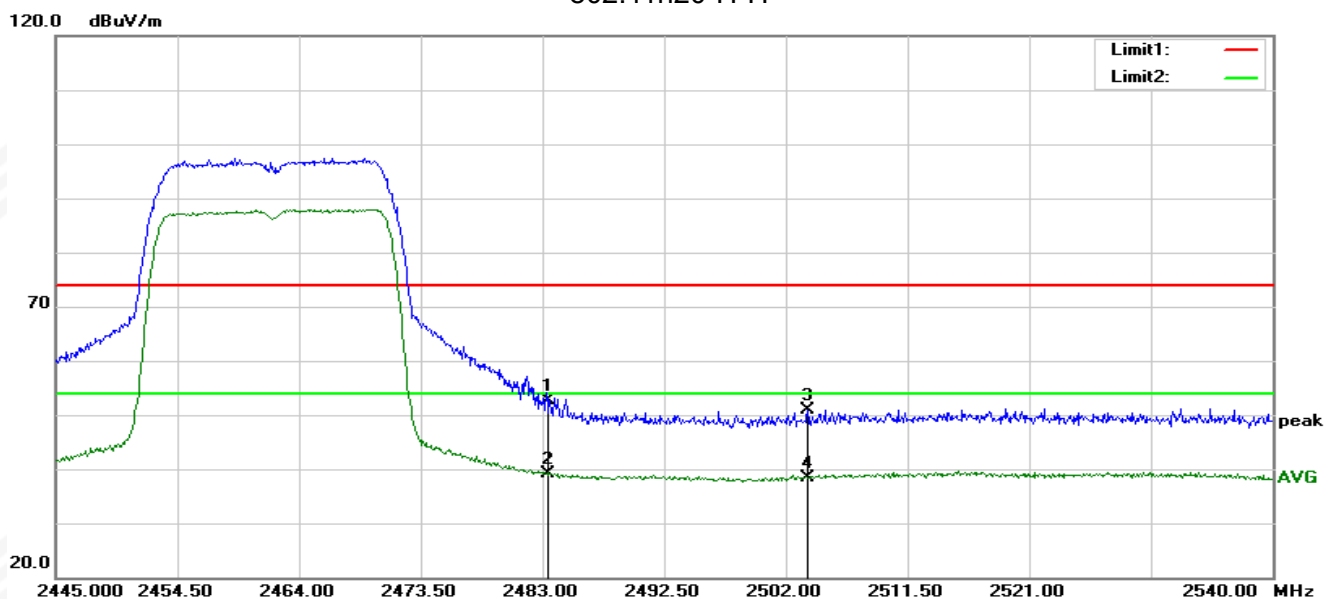
802.11n20-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2364.120	41.88	3.95	45.83	74.00	-28.17	peak
2	2364.120	29.96	3.95	33.91	54.00	-20.09	AVG
3	2390.000	46.12	4.34	50.46	74.00	-23.54	peak
4	2390.000	31.77	4.34	36.11	54.00	-17.89	AVG

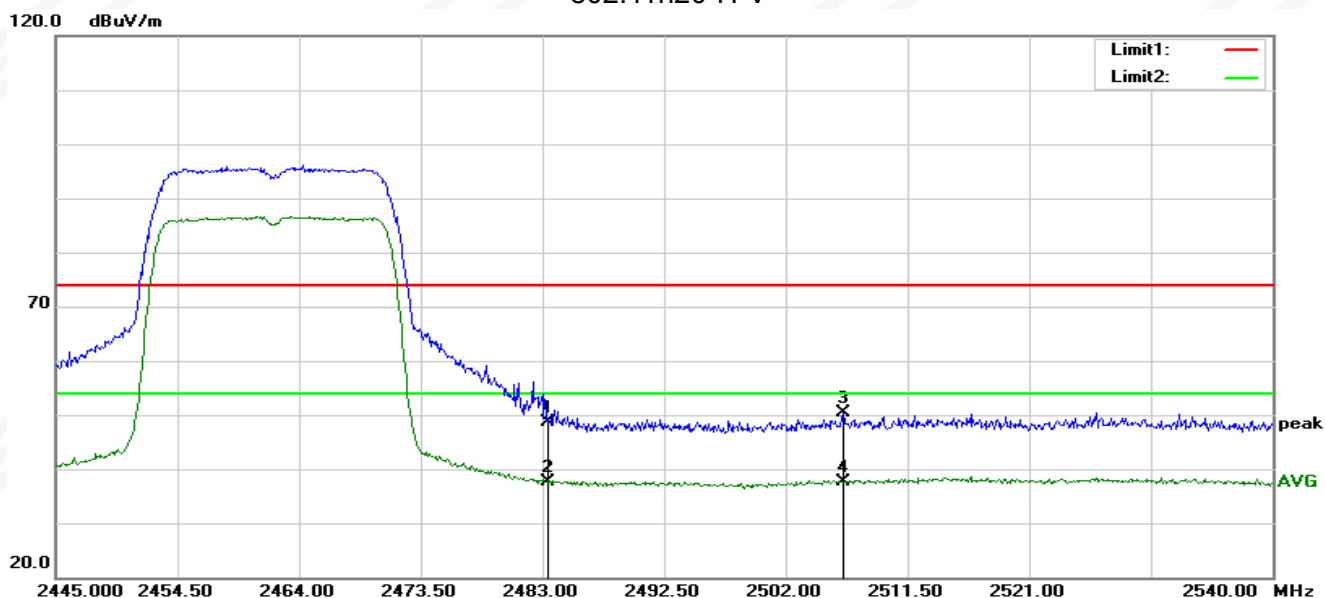


802.11n20-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	47.96	4.60	52.56	74.00	-21.44	peak
2	2483.500	34.52	4.60	39.12	54.00	-14.88	AVG
3	2503.710	46.20	4.67	50.87	74.00	-23.13	peak
4	2503.710	33.79	4.67	38.46	54.00	-15.54	AVG

802.11n20-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	43.95	4.60	48.55	74.00	-25.45	peak
2	2483.500	33.07	4.60	37.67	54.00	-16.33	AVG
3	2506.465	45.59	4.69	50.28	74.00	-23.72	peak
4	2506.465	32.92	4.69	37.61	54.00	-16.39	AVG