TESTING
No. L2264

TEST REPORT

Product Name	GSM Quad Band Mobile Phone
Model Name	Xpress
Marketing Name	ONE TOUCH 838
FCC ID	RAD265
Client	TCT Mobile Limited

TA Technology (Shanghai) Co., Ltd.

GENERAL SUMMARY

Product Name	GSM Quad Band Mobile Phone	**Model**	Xpress
FCC ID	RAD265	**Report No.**	RXA1205-0238RF01R1
Client	TCT Mobile Limited		
Manufacturer	TCT Mobile Limited		
Reference Standard(s)	**FCC CFR47 Part 15C (2010-12)** Radio Frequency Devices **15.205** Restricted bands of operation; **15.207** Conducted limits; **15.209** Radiated emission limits; general requirements; **15.247** Operation within the bands 902-928 MHz,2400-2483.5 MHz, and 5725-5850MHz. **ANSI C63.10(2009)** American National Standard for Testing Unlicensed Wireless Devices		
Conclusion	Test results refer to Chapter 2 of this test report. (Stamp) **Date of issue: June 25th,2012**		
Comment	The test result only responds to the measured sample.		

Approved by 杨伟中 Director **Revised by** 徐凯 RF Manager **Performed by** 盛江鹏 RF Engineer

TABLE OF CONTENT

1. General Information

1.1. Notes of the test report

TA Technology (Shanghai) Co., Ltd. guarantees the reliability of the data presented in this test report, which is the results of measurements and tests performed for the items under test on the date and under the conditions stated in this test report and is based on the knowledge and technical facilities available at TA Technology (Shanghai) Co., Ltd. at the time of execution of the test.

TA Technology (Shanghai) Co., Ltd. is liable to the client for the maintenance by its personnel of the confidentiality of all information related to the items under test and the results of the test. This report only refers to the item that has undergone the test.

This report standalone dose not constitute or imply by its own an approval of the product by the certification Bodies or competent Authorities. This report cannot be used partially or in full for publicity and/or promotional purposes without previous written approval of **TA Technology (Shanghai) Co., Ltd.** and the Accreditation Bodies, if it applies.

If the electrical report is inconsistent with the printed one, it should be subject to the latter.

1.2. Testing laboratory

Company:	TA Technology (Shanghai) Co., Ltd.
Address:	No.145, Jintang Rd, Tangzhen Industry Park, Pudong
City:	Shanghai
Post code:	201201
Country:	P. R. China
Contact:	Yang Weizhong
Telephone:	+86-021-50791141/2/3
Fax:	+86-021-50791141/2/3-8000
Website:	http://www.ta-shanghai.com
E-mail:	yangweizhong@ta-shanghai.com

1.3. Applicant Information

Company:	TCT Mobile Limited
Address:	5F, E building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P.R. China. 201203
City:	Shanghai
Postal Code:	201203
Country:	P.R. China
Contact:	Gong Zhizhou
Telephone:	0086-21-61460890
Fax:	0086-21-61460602

1.4. Manufacturer Information

Company:	TCT Mobile Limited
Address:	5F, E building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P.R. China. 201203
City:	Shanghai
Postal Code:	201203
Country:	P.R. China
Telephone:	0086-21-61460890
Fax:	0086-21-61460602

1.5. Information of EUT

General information

Name of EUT:	GSM Quad Band Mobile Phone
IMEI:	863744010510237
Hardware Version:	PIO
Software Version:	E1A
Antenna Type:	Internal Antenna
Device Operating Configurations:	
Network Standards:	802.11b, 802.11g; (tested)
Test Modulation:	(802.11b)DSSS; (802.11g)OFDM
Power Supply:	Battery or Adapter
Operating Frequency Range(s)	2400MHz~ 2483.5 MHz

Auxiliary Equipment Details

Name	Model	Manufacturer	S/N
Battery	CAB31L0000C1	BYD	B01221122EA
Charger 1	CBA3002AG0C1	BYD	/
Charger 2	CBA3002AG0C3	Yingju	/
Headset	CCB3160A15C1	Juwei	/

Equipment Under Test (EUT) is GSM Quad Band Mobile Phone. The detail about these is in chapter 1.5 in this report. The EUT supports WiFi.

The sample under test was selected by the Client.

Components list please refer to documents of the manufacturer.

1.6. Test Date

The test is performed from May 18, 2012 to May 20, 2012.

2. Test Information

2.1. Summary of test results

Number	Summary of measurements of results	Clause in FCC rules	Verdict
1	Radiates Emission	15.247(d),15.205,15.209	PASS
2	Conducted Emissions	15.207,15.107	PASS

2.2. Radiates Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

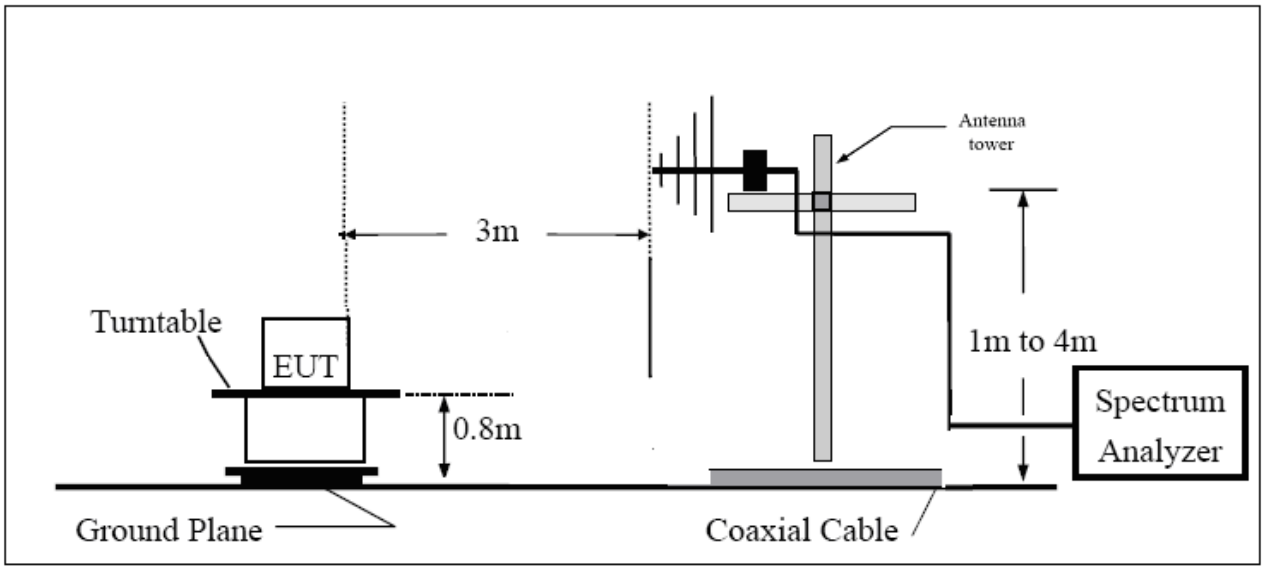
The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration. Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported. During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.
Set the spectrum analyzer in the following:
Below 1GHz (detector: Peak and Quasi-Peak)
RBW=100kHz / VBW=300kHz / Sweep=AUTO
Above 1GHz(detector: Peak):
(a) PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO
(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded.

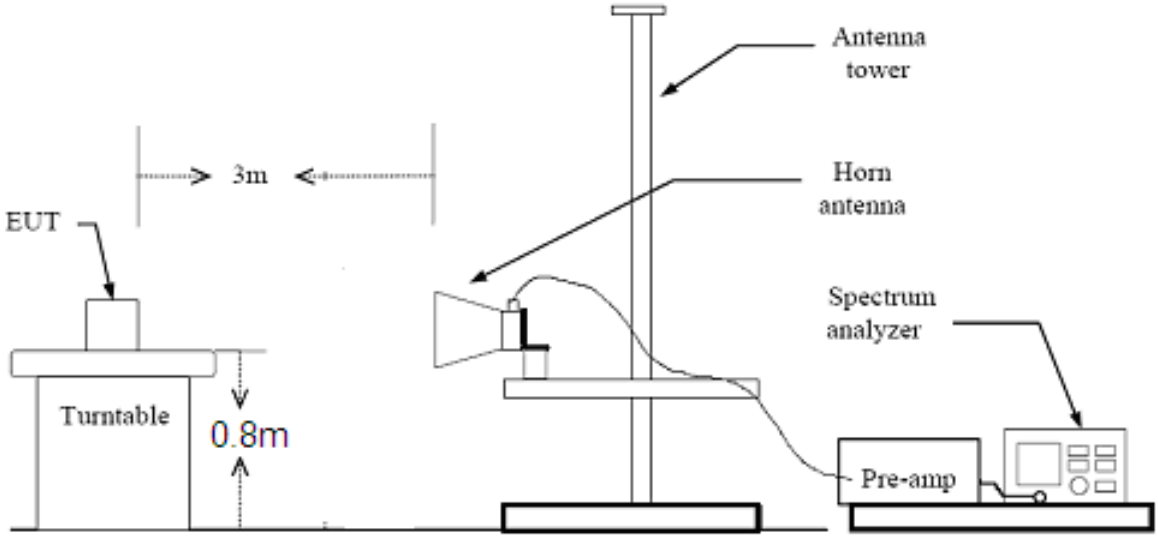
The test is in transmit mode.

Test setup

Below 1GHz



Above 1GHz



Limits

Rule Part 15.247(d) specifies that “In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).”

Limit in restricted band

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/

1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

Measurement Uncertainty

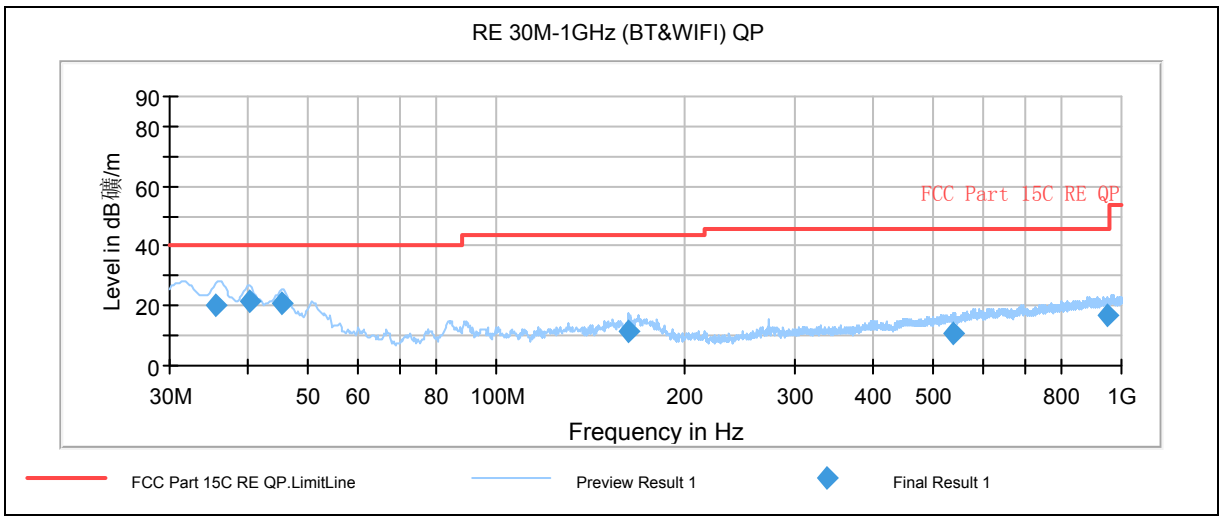
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor *k* = 1.96.

Frequency	Uncertainty
30MHz-200MHz	4.19 dB
200MHz-1GHz	3.63 dB
1GHz – 6GHz	3.68 dB

Test result

Charger 1

802.11b CH1



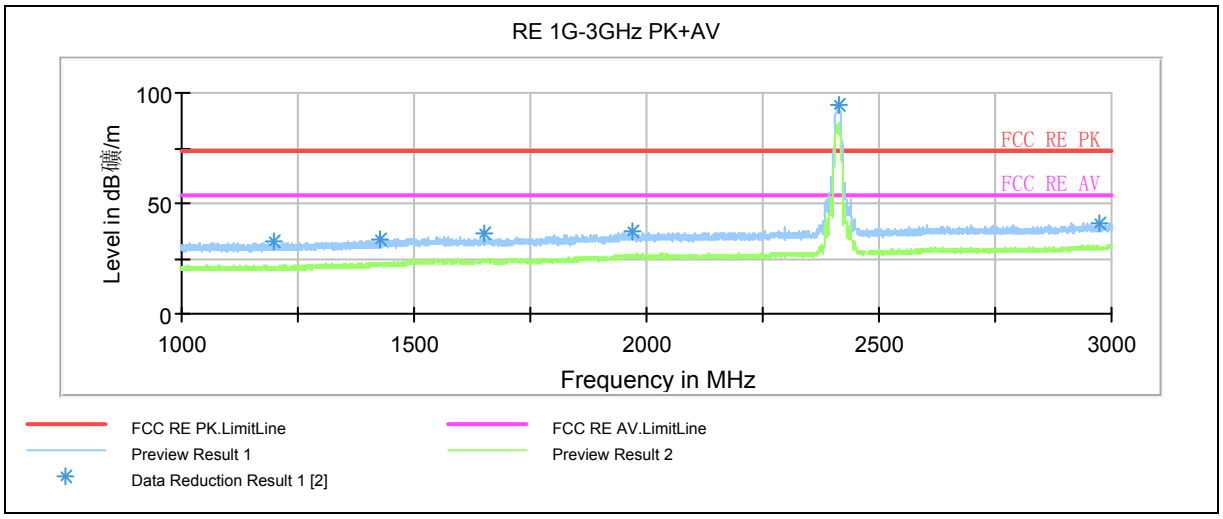
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
35.460000	20.3	100.0	V	236.0	44.7	-24.4	19.7	40.0
40.185000	21.5	120.0	V	205.0	45.4	-23.9	18.5	40.0
45.480000	20.6	100.0	V	187.0	45.3	-24.7	19.4	40.0
163.127500	11.2	100.0	V	70.0	43	-31.8	32.3	43.5
536.577500	10.8	209.0	V	337.0	32.6	-21.8	35.2	46.0
947.210000	16.7	100.0	V	32.0	32.6	-15.9	29.3	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

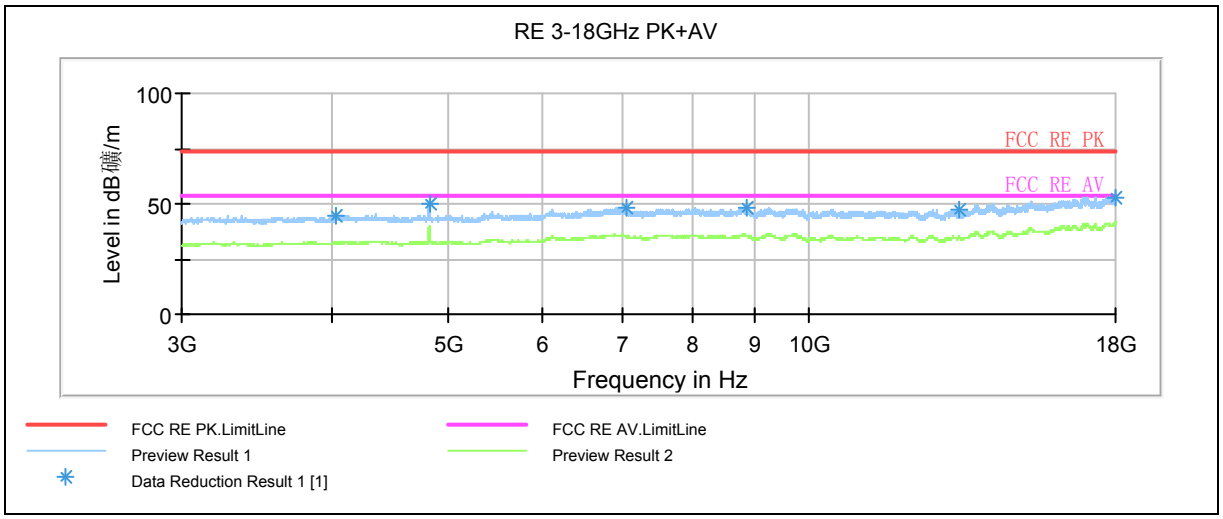
3. Margin = Limit – Quasi-Peak



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1199.125	32.4	20.0	100.0	V	329.0	-13.7
1425.125	33.4	21.9	100.0	V	314.0	-12.4
1648.875	36.3	24.2	100.0	V	0.0	-10.1
1970.625	36.8	25.4	100.0	V	0.0	-7.9
2412.000	94.6	81.0	100.0	V	0.0	-6.3
2974.500	41.0	29.1	100.0	H	0.0	-4.1

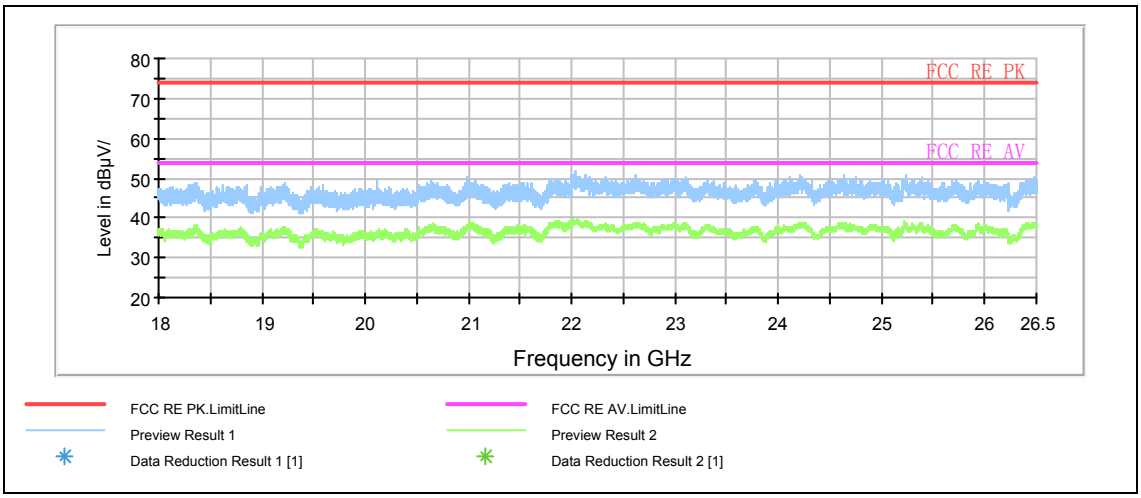
Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 3GHz to 18GHz

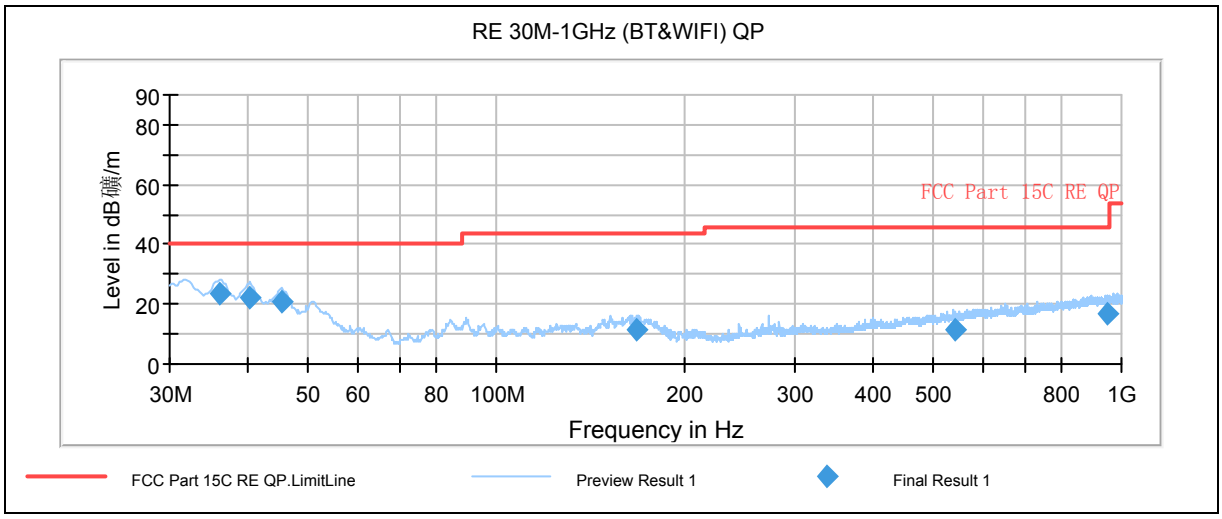
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
4035.000	44.4	32.2	100.0	V	338.0	2.3
4824.375	50.0	40.3	100.0	V	349.0	3.2
7040.625	47.8	35.2	100.0	H	56.0	8.8
8859.375	48.0	35.3	100.0	V	211.0	10.3
13338.750	47.1	34.7	100.0	V	0.0	12.4
17973.750	53.2	40.8	100.0	H	125.0	17.8

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 18GHz to 26.5GHz

802.11b CH6



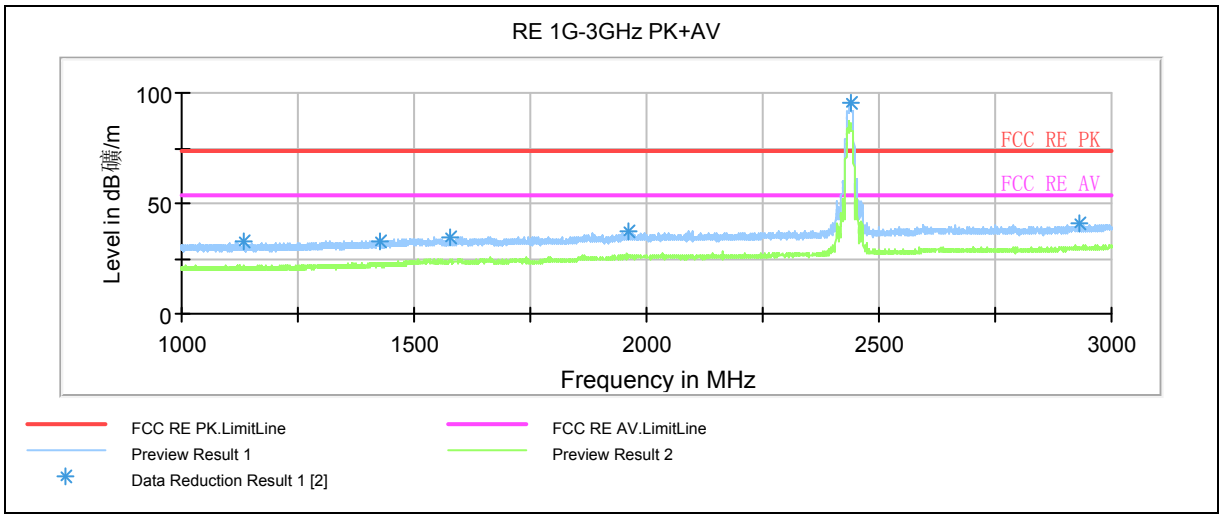
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
36.142500	23.3	100.0	V	236.0	47.6	-24.3	16.7	40.0
40.347500	21.9	100.0	V	182.0	45.8	-23.9	18.1	40.0
45.480000	20.5	100.0	V	214.0	45.2	-24.7	19.5	40.0
168.102500	11.5	100.0	V	79.0	43.1	-31.6	32.0	43.5
540.012500	11.2	225.0	H	170.0	33	-21.8	34.8	46.0
947.130000	16.6	125.0	V	275.0	32.5	-15.9	29.4	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

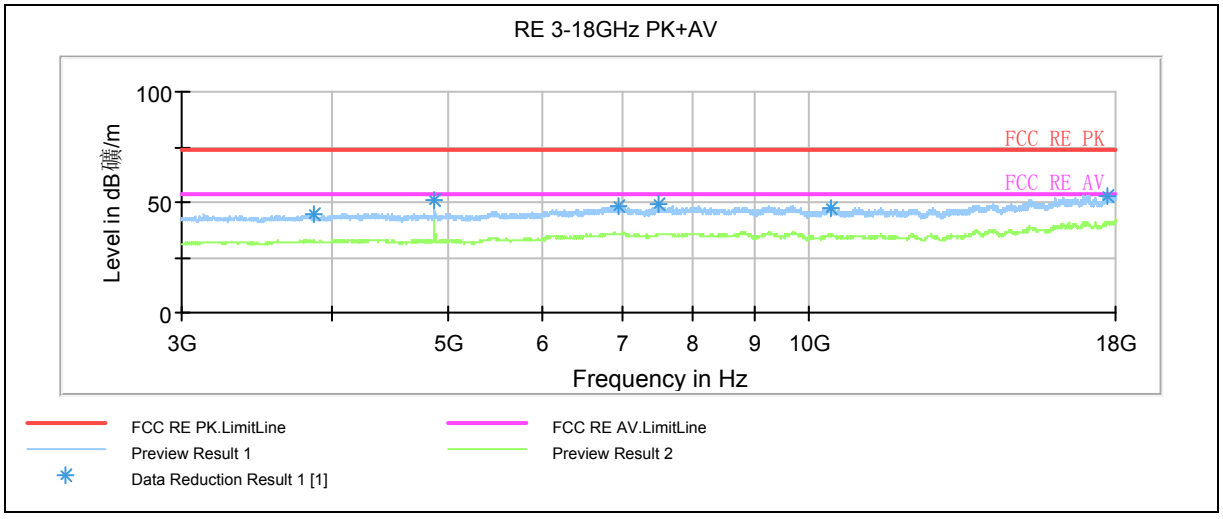
3. Margin = Limit – Quasi-Peak



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1132.750	32.5	20.7	100.0	H	37.0	-13.6
1428.625	32.9	21.8	100.0	H	0.0	-12.4
1578.375	34.9	24.6	100.0	V	0.0	-10.5
1963.125	37.1	26.2	100.0	H	0.0	-7.9
2439.000	95.5	86.5	100.0	V	0.0	-6.5
2931.750	40.9	29.1	100.0	V	0.0	-4.0

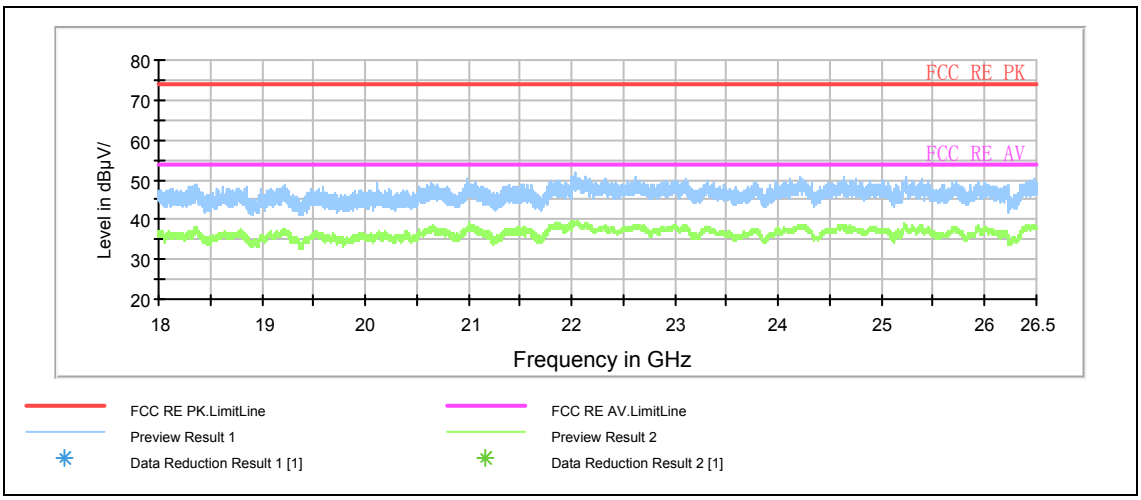
Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 3GHz to 18GHz

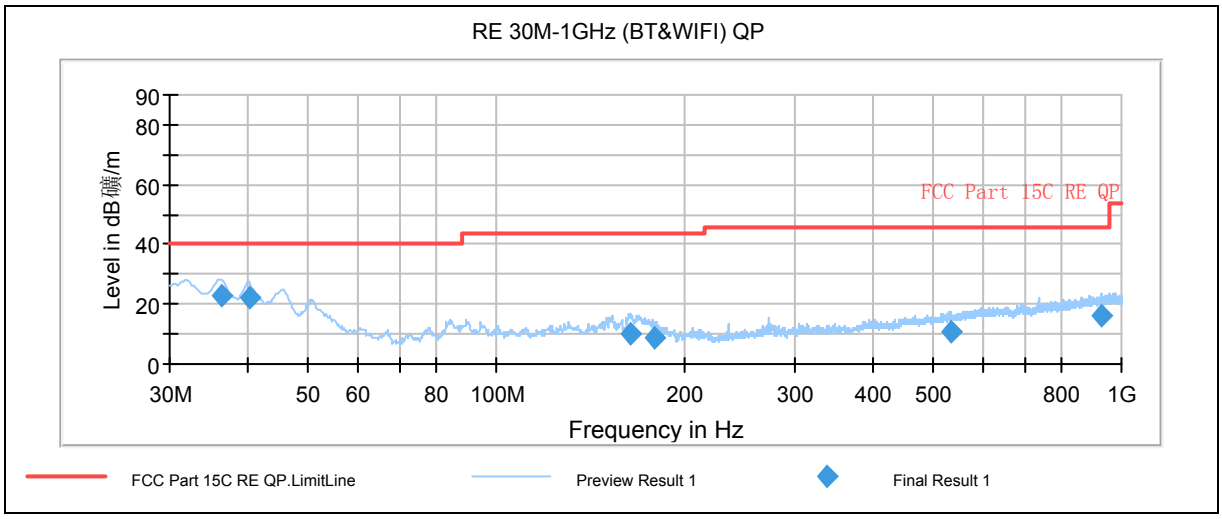
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3870.000	44.4	32.2	100.0	V	0.0	2.1
4873.125	51.2	41.7	100.0	V	59.0	3.4
6930.000	48.2	35.3	100.0	V	341.0	8.2
7503.750	48.9	35.5	100.0	V	224.0	9.1
10413.750	47.2	35.1	100.0	V	0.0	10.8
17705.625	53.2	41.0	100.0	V	200.0	17.1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 18GHz to 26.5GHz

802.11b CH11



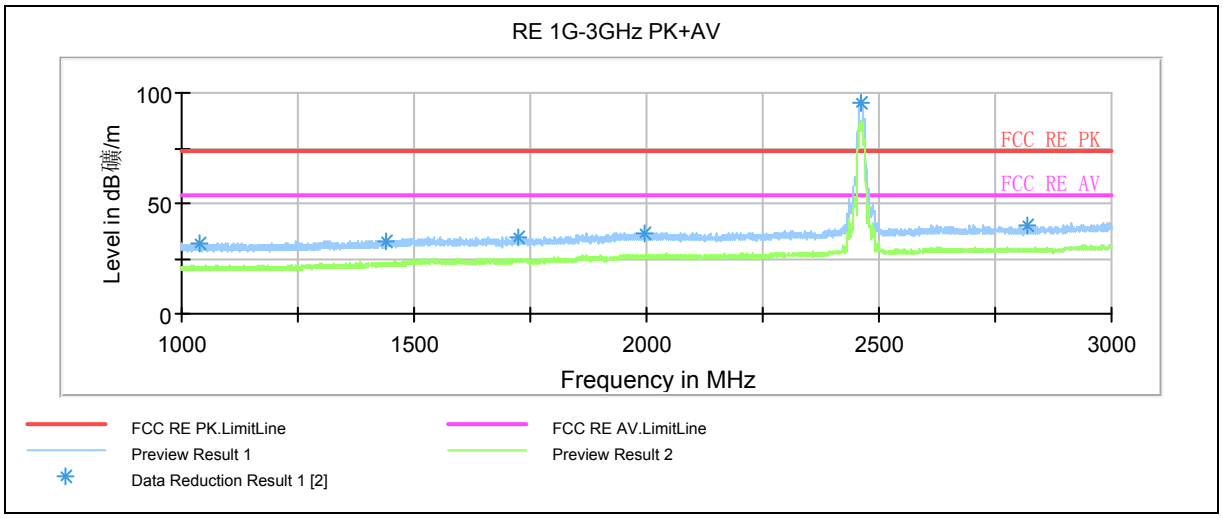
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
36.225000	23.2	100.0	V	203.0	47.5	-24.3	16.8	40.0
40.345000	22.3	100.0	V	198.0	46.2	-23.9	17.7	40.0
163.380000	10.1	121.0	V	78.0	41.9	-31.8	33.4	43.5
178.525000	8.5	100.0	V	102.0	39.6	-31.1	35.0	43.5
532.182500	10.8	100.0	H	55.0	32.6	-21.8	35.2	46.0
929.632500	16.0	125.0	H	0.0	32.2	-16.2	30.0	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

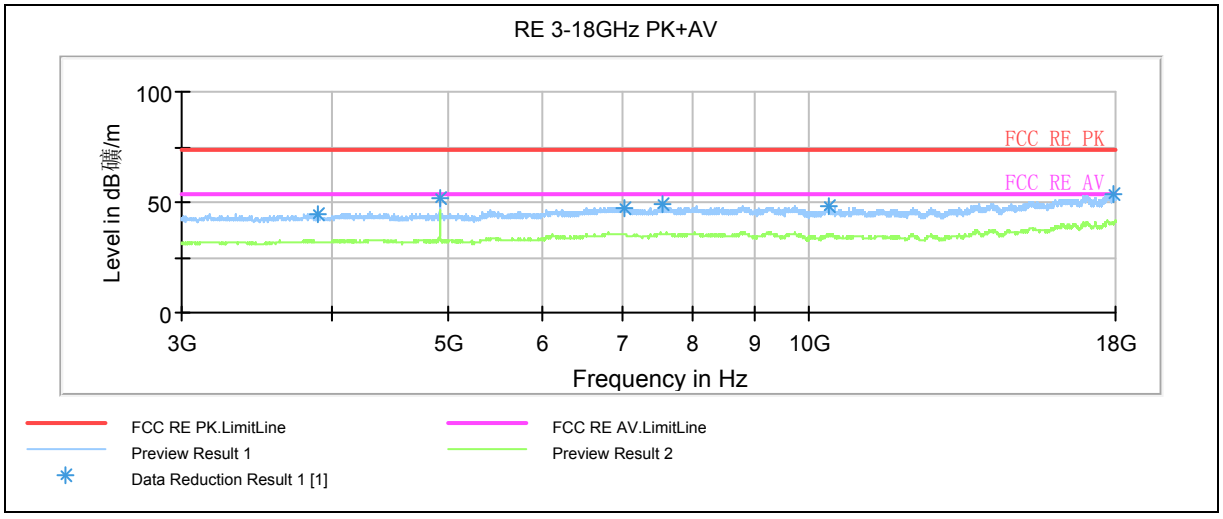
3. Margin = Limit – Quasi-Peak



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1037.625	31.8	20.3	100.0	H	0.0	-13.8
1440.500	33.1	22.0	100.0	H	89.0	-12.2
1722.000	34.8	24.2	100.0	H	0.0	-9.7
1995.375	36.6	25.6	100.0	V	0.0	-8.1
2461.500	95.3	87.6	100.0	V	0.0	-6.6
2817.000	40.3	28.6	100.0	V	0.0	-5.2

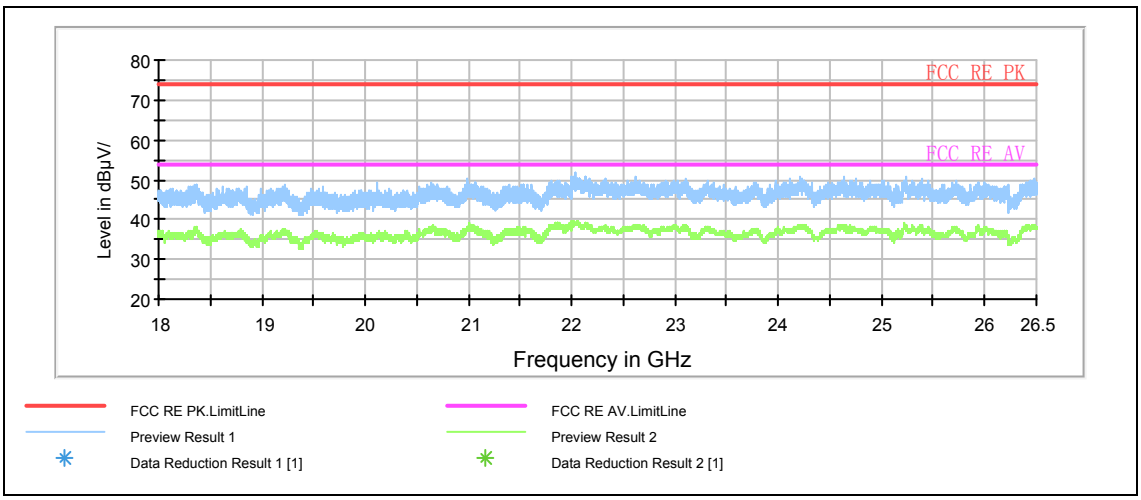
Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 3GHz to 18GHz

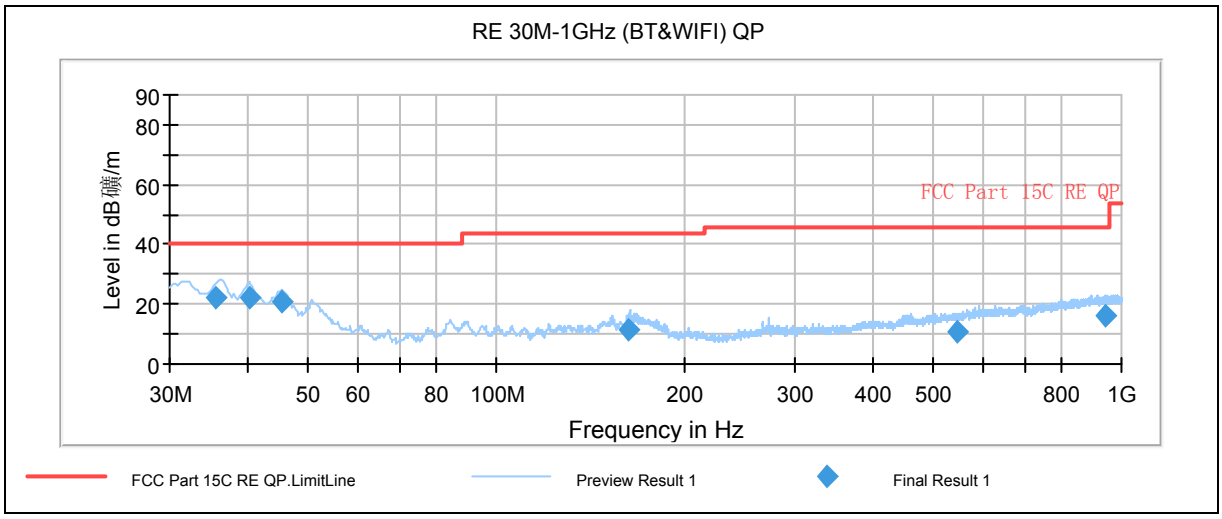
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3890.625	44.8	31.7	100.0	V	338.0	2.1
4923.750	51.7	46.0	100.0	V	60.0	3.5
7025.625	47.6	35.2	100.0	V	224.0	8.8
7541.250	49.2	35.5	100.0	H	135.0	9.2
10404.375	47.8	35.0	100.0	V	315.0	10.8
17964.375	53.4	40.9	100.0	H	32.0	17.7

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 18GHz to 26.5GHz

802.11g CH1



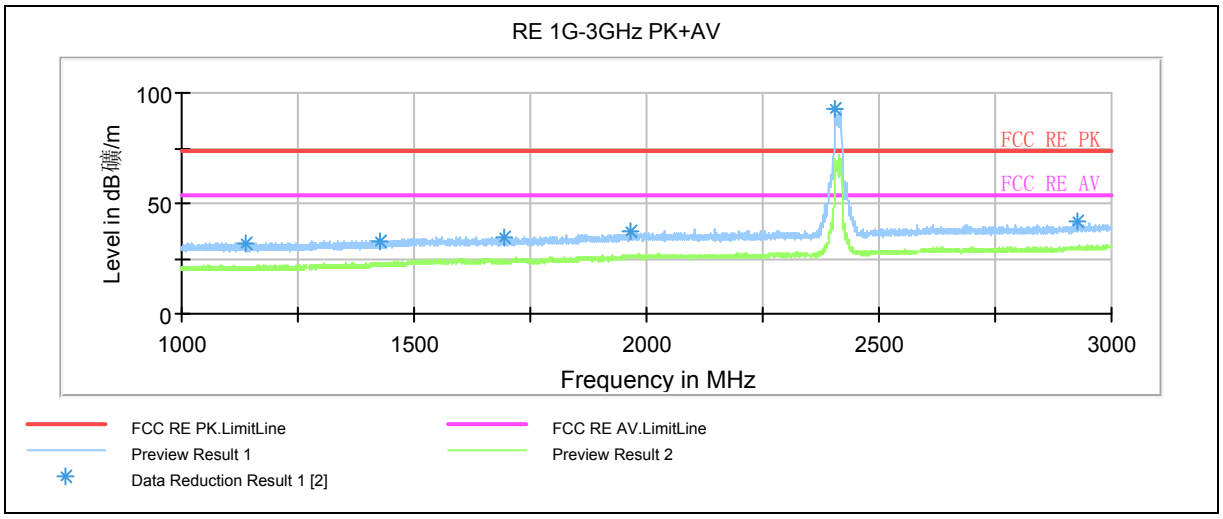
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
35.622500	22.0	100.0	V	203.0	46.3	-24.3	18.0	40.0
40.265000	22.4	100.0	V	196.0	46.3	-23.9	17.6	40.0
45.522500	20.7	100.0	V	192.0	45.4	-24.7	19.3	40.0
163.215000	11.3	100.0	V	79.0	43.1	-31.8	32.2	43.5
546.560000	10.8	195.0	H	0.0	32.4	-21.6	35.2	46.0
942.527500	16.4	100.0	H	0.0	32.4	-16.0	29.6	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

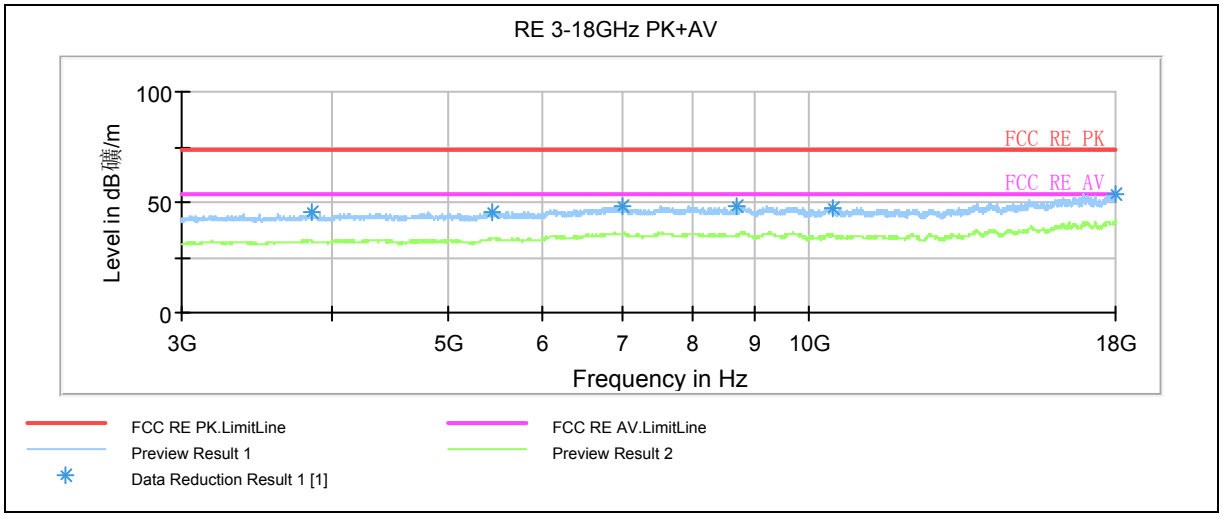


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1136.625	32.1	19.9	100.0	V	325.0	-13.7
1425.500	33.0	21.9	100.0	H	117.0	-12.4
1694.625	34.5	23.7	100.0	H	0.0	-10.4
1965.000	37.1	25.6	100.0	V	0.0	-7.8
2405.625	93.0	70.2	100.0	V	0.0	-6.4
2928.375	41.9	29.3	100.0	H	0.0	-4.0

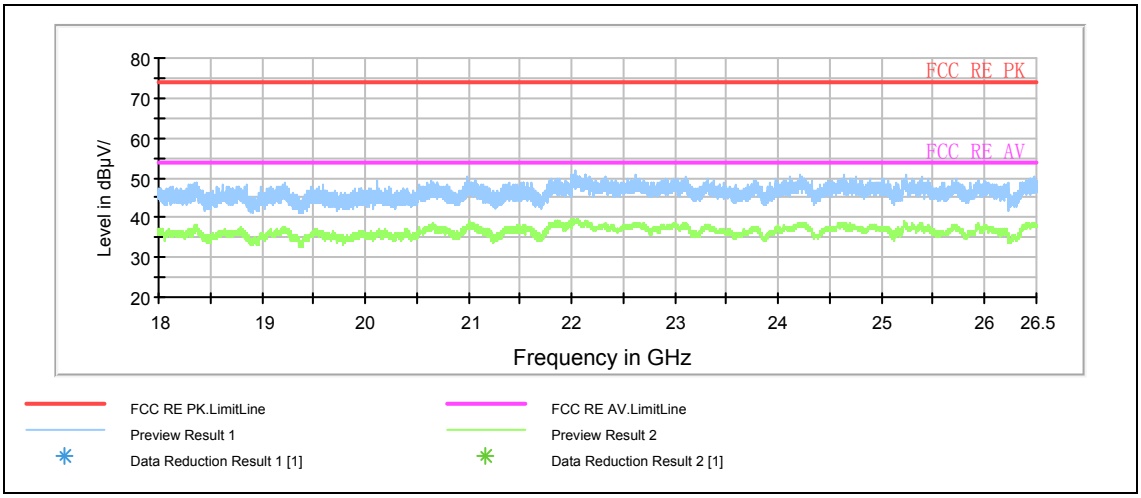
Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 3GHz to 18GHz

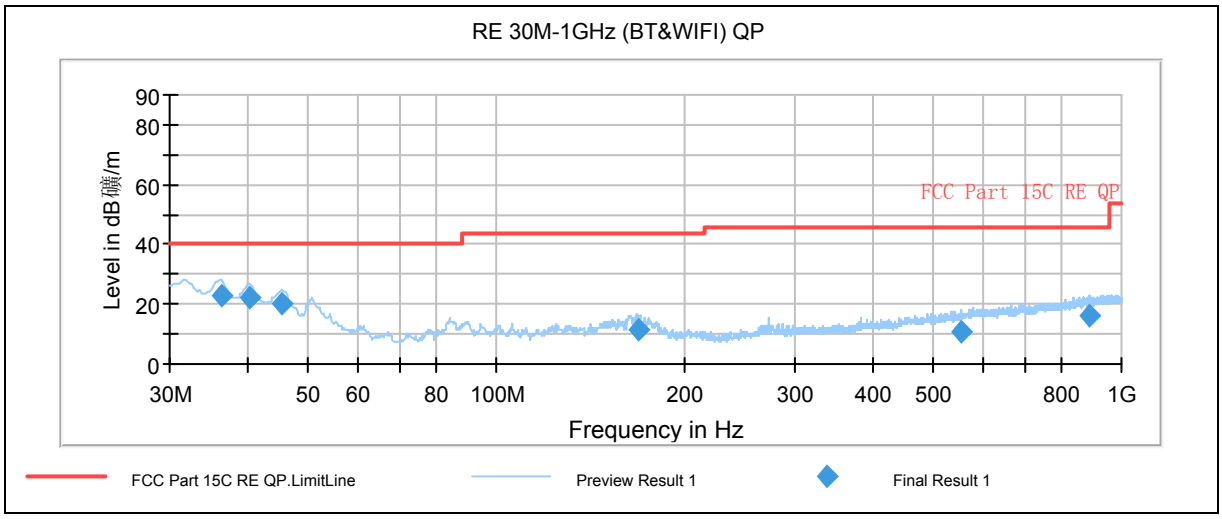
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3847.500	45.5	32.8	100.0	V	294.0	2.2
5450.625	45.5	33.9	100.0	H	183.0	5.1
7003.125	47.8	36.0	100.0	H	195.0	8.7
8700.000	48.0	36.3	100.0	V	117.0	10.1
10455.000	47.2	35.4	100.0	H	34.0	10.8
17992.500	53.4	41.7	100.0	V	0.0	17.9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 18GHz to 26.5GHz

802.11g CH6



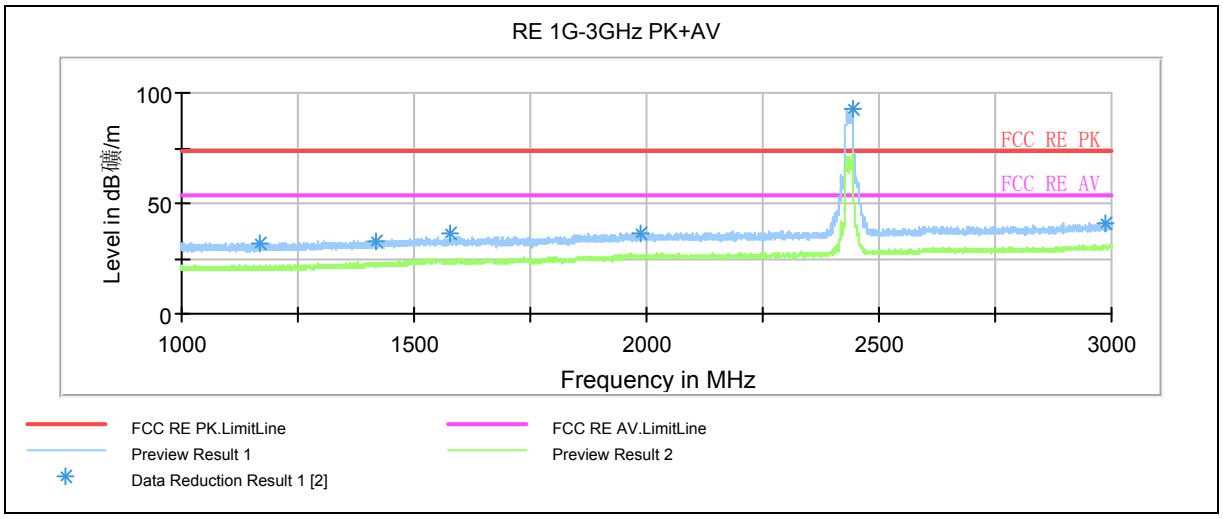
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
36.342500	22.6	120.0	V	215.0	46.9	-24.3	17.4	40.0
40.305000	22.1	100.0	V	173.0	46	-23.9	17.9	40.0
45.480000	20.4	100.0	V	191.0	45.1	-24.7	19.6	40.0
168.342500	11.4	100.0	V	89.0	43	-31.6	32.1	43.5
555.572500	11.0	100.0	V	260.0	32.4	-21.4	35.0	46.0
885.382500	16.2	225.0	V	184.0	32.6	-16.4	29.8	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

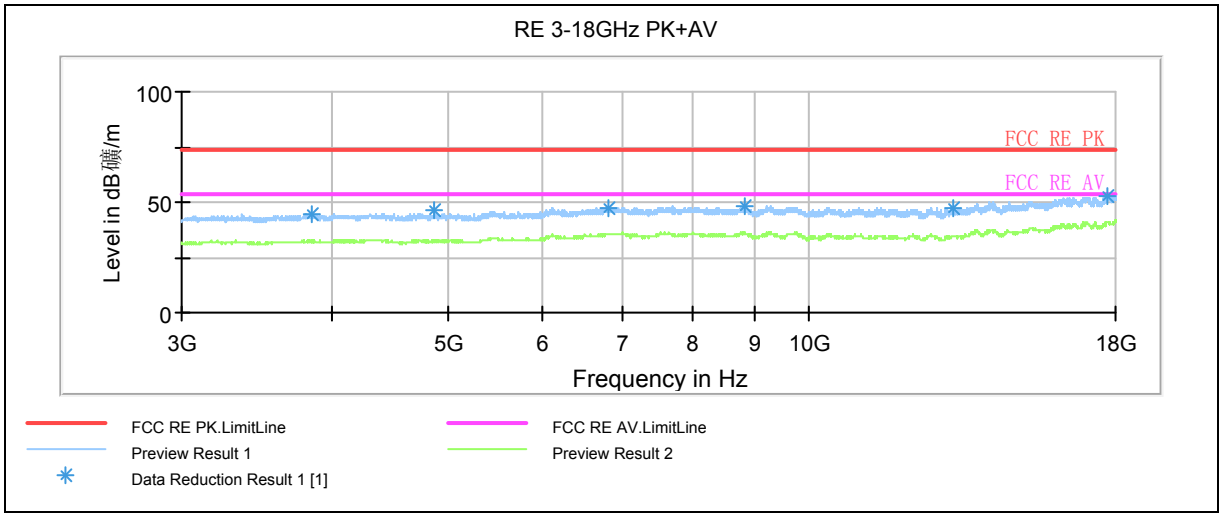
3. Margin = Limit – Quasi-Peak



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1166.000	32.1	20.3	100.0	V	0.0	-13.7
1416.000	33.1	21.7	100.0	H	0.0	-12.4
1579.125	36.1	23.7	100.0	V	0.0	-10.5
1987.875	36.5	25.7	100.0	H	0.0	-8.1
2443.125	93.1	69.0	100.0	V	0.0	-6.6
2987.250	41.3	29.8	100.0	H	0.0	-3.9

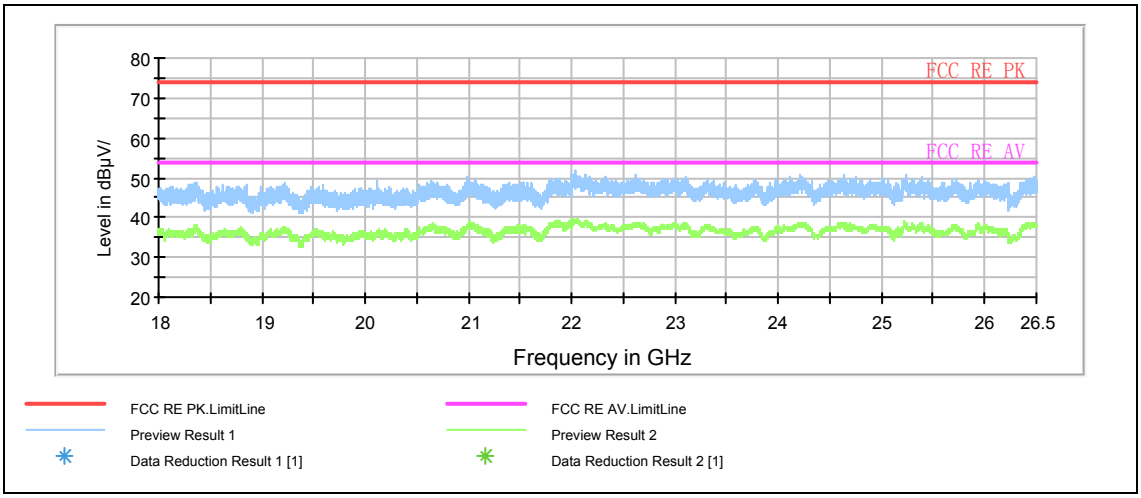
Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 3GHz to 18GHz

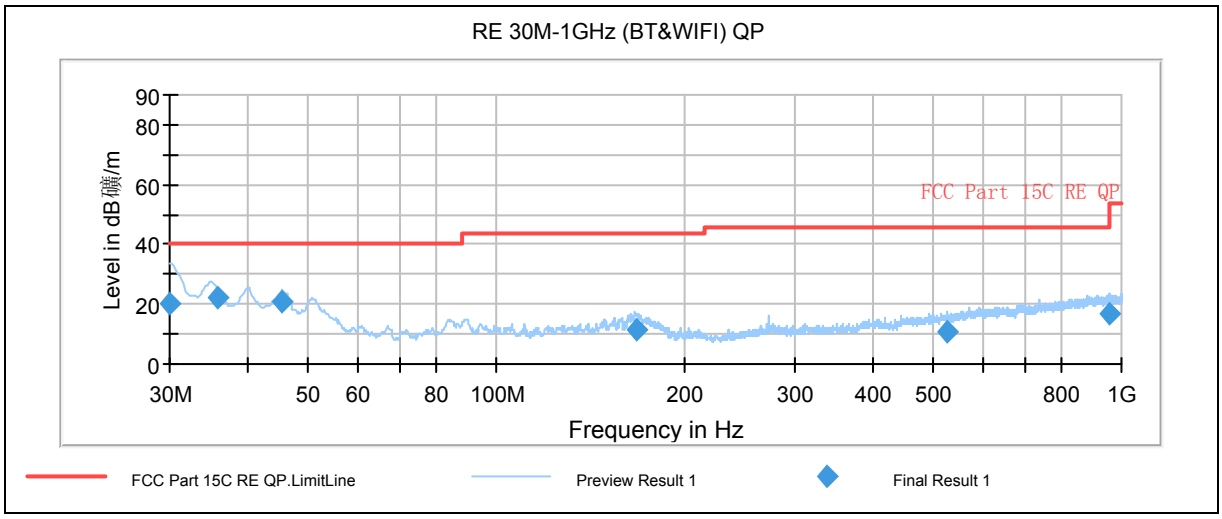
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3847.500	44.6	32.0	100.0	H	324.0	2.2
4867.500	46.1	32.8	100.0	V	354.0	3.4
6802.500	47.6	35.4	100.0	V	0.0	7.8
8842.500	48.3	35.6	100.0	H	0.0	10.3
13175.625	47.4	34.5	100.0	H	0.0	12.1
17709.375	52.9	40.9	100.0	V	294.0	17.1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 18GHz to 26.5GHz

802.11g CH11



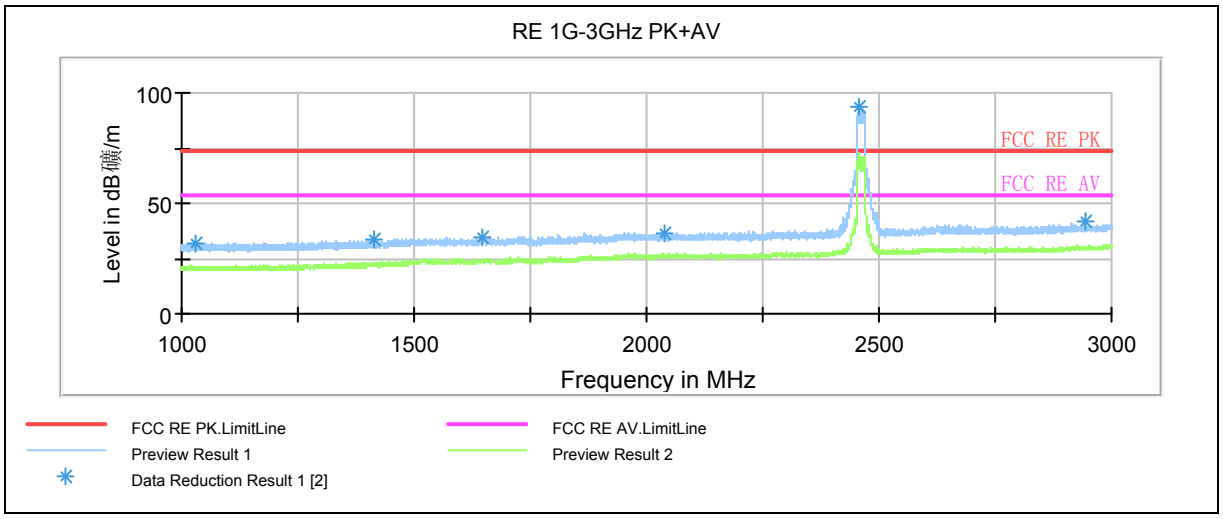
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.000000	20.1	100.0	V	0.0	43.7	-23.6	19.9	40.0
35.692500	21.9	100.0	V	209.0	46.2	-24.3	18.1	40.0
45.520000	20.5	100.0	V	219.0	45.2	-24.7	19.5	40.0
167.370000	11.3	100.0	V	79.0	42.9	-31.6	32.2	43.5
525.917500	10.8	200.0	V	313.0	32.6	-21.8	35.2	46.0
959.500000	16.6	175.0	H	4.0	32.3	-15.7	29.4	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

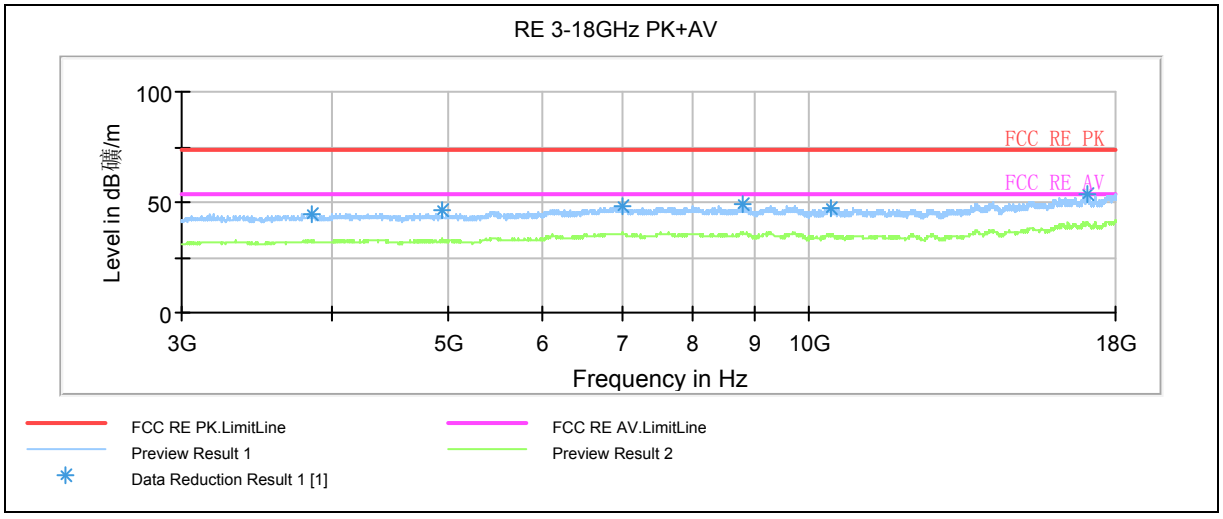
3. Margin = Limit – Quasi-Peak



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1028.625	32.1	19.9	100.0	V	0.0	-13.8
1415.125	33.2	21.6	100.0	H	0.0	-12.4
1645.875	34.6	24.0	100.0	V	0.0	-10.1
2038.875	36.8	25.5	100.0	V	0.0	-7.9
2455.875	93.6	72.5	100.0	V	0.0	-6.6
2945.625	41.6	29.6	100.0	H	0.0	-4.1

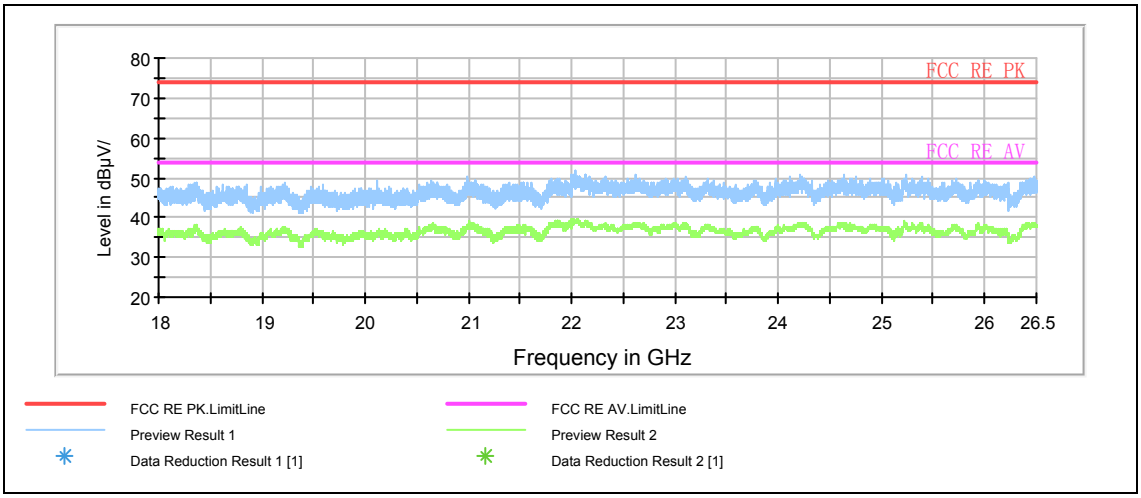
Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3853.125	44.7	32.0	100.0	V	313.0	2.2
4948.125	46.1	32.6	100.0	V	336.0	3.5
7003.125	47.7	35.6	100.0	H	156.0	8.7
8816.250	48.8	36.0	100.0	V	220.0	10.3
10426.875	47.4	34.8	100.0	H	168.0	10.8
17030.625	53.6	40.6	100.0	V	359.0	16.2

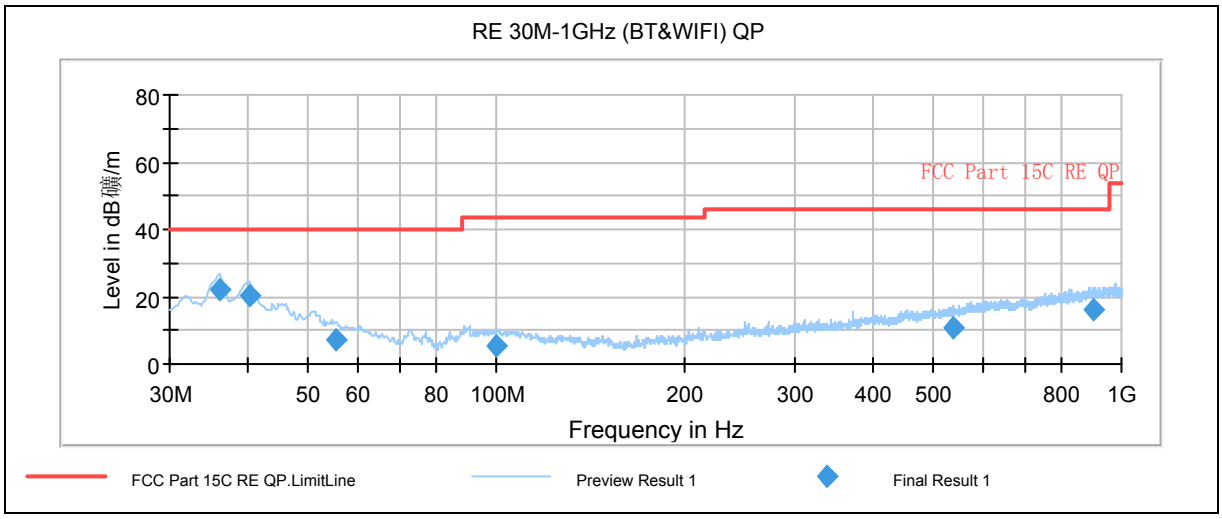
Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 18GHz to 26.5GHz

Charger 2

802.11b CH1



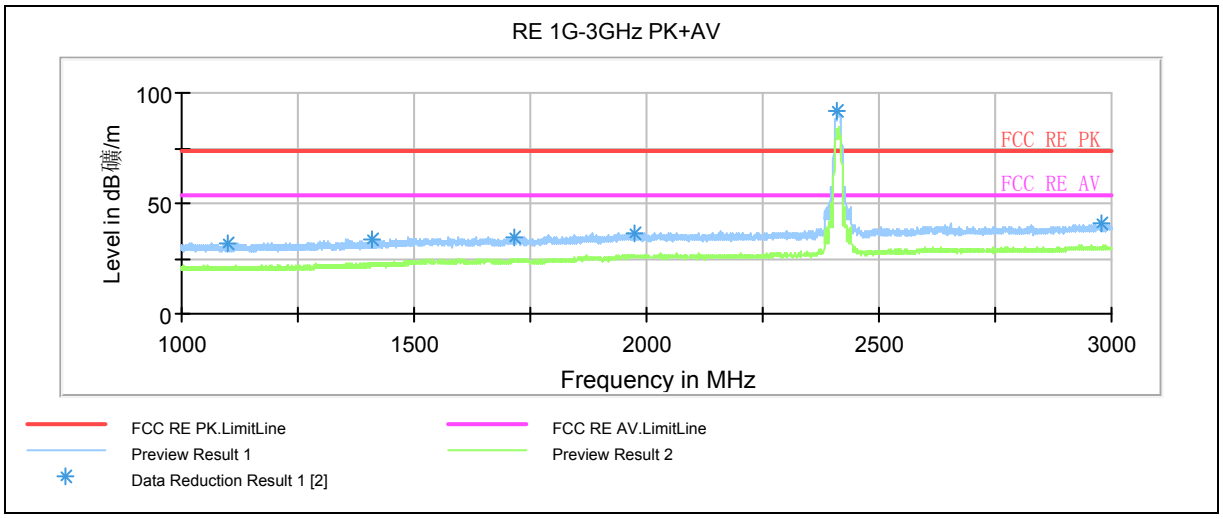
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
35.982500	21.8	100.0	V	284.0	46.1	-24.3	18.2	40.0
40.222500	20.5	100.0	V	186.0	44.4	-23.9	19.5	40.0
55.295000	7.0	225.0	V	202.0	33.3	-26.3	33.0	40.0
100.007500	5.3	208.0	V	306.0	32.9	-27.6	38.2	43.5
537.027500	10.7	200.0	V	257.0	32.5	-21.8	35.3	46.0
903.410000	16.0	100.0	V	181.0	32.4	-16.4	30.0	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

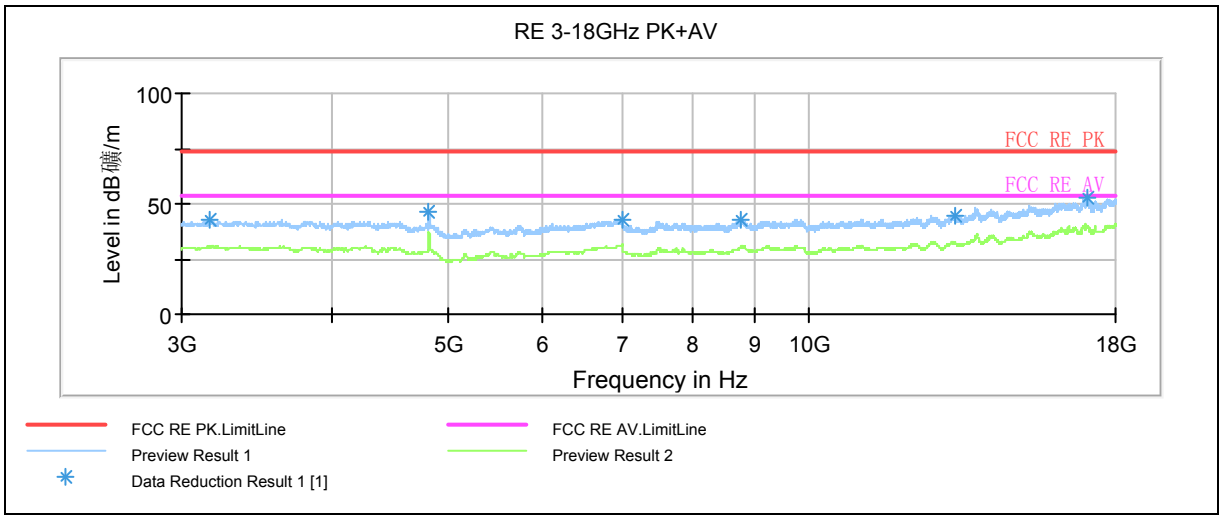
3. Margin = Limit – Quasi-Peak



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1098.750	31.7	20.7	100.0	V	261.0	-14.0
1407.875	33.8	22.3	100.0	V	231.0	-12.4
1717.500	34.5	24.7	100.0	V	0.0	-9.7
1974.000	36.4	26.3	100.0	V	0.0	-8.0
2410.875	91.8	82.0	100.0	H	0.0	-6.3
2977.125	41.0	29.7	100.0	H	0.0	-4.0

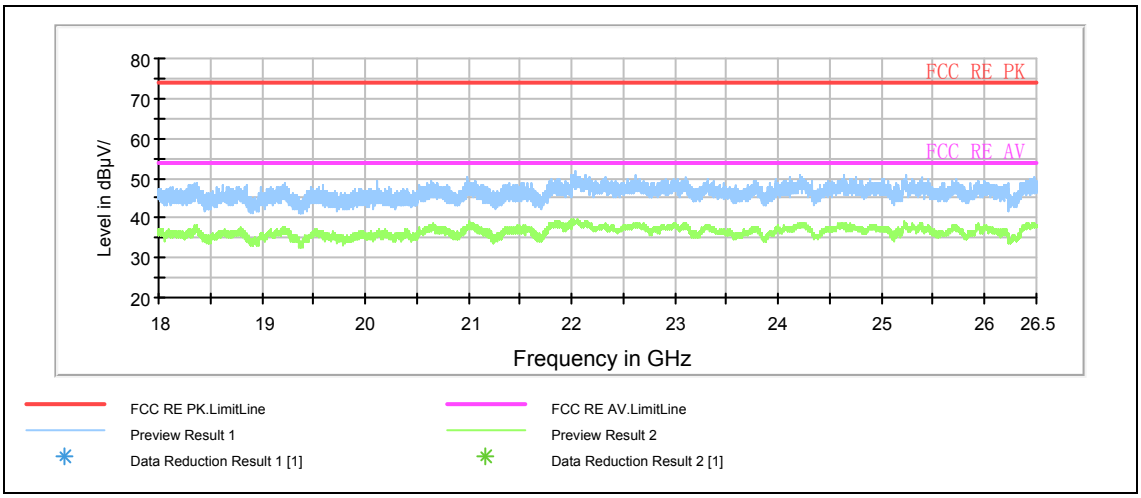
Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 3GHz to 18GHz

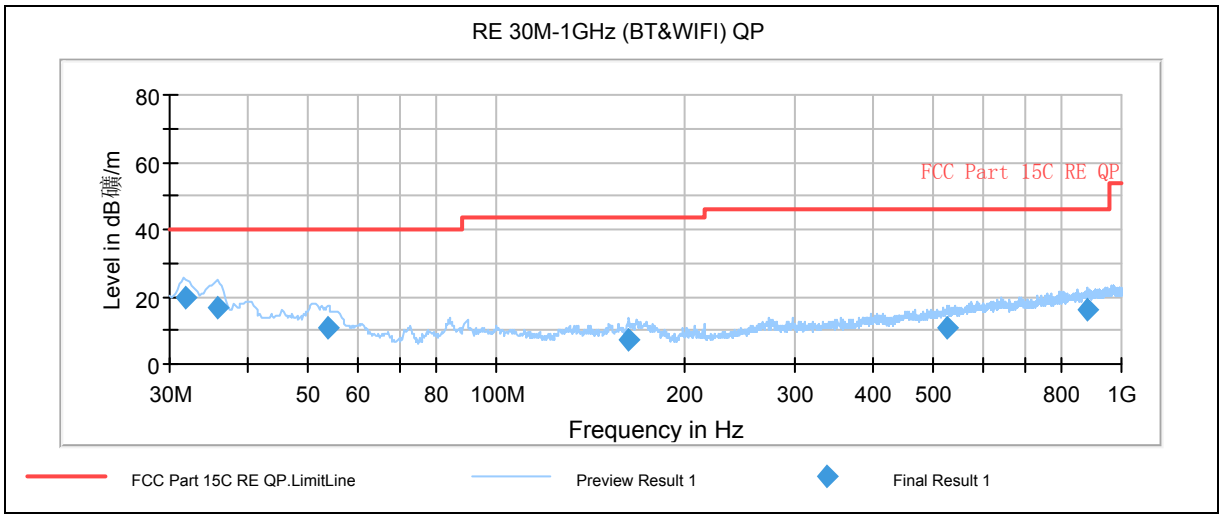
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3168.750	42.4	30.3	100.0	V	154.0	0.8
4822.500	46.1	36.4	100.0	H	137.0	3.2
6986.250	43.0	30.9	100.0	H	137.0	8.3
8784.375	42.8	30.8	100.0	V	350.0	10.3
13211.250	44.6	32.2	100.0	V	0.0	12.2
17032.500	52.8	40.0	100.0	V	246.0	16.2

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 18GHz to 26.5GHz

802.11b CH6



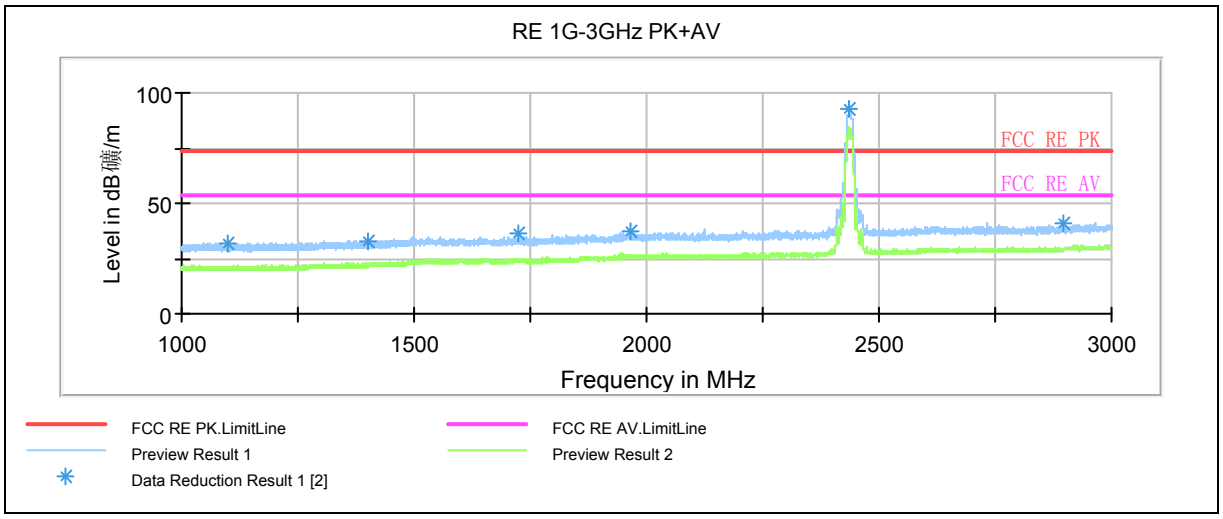
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
31.897500	19.6	100.0	V	228.0	43.5	-23.9	20.4	40.0
35.857500	16.9	100.0	V	257.0	41.2	-24.3	23.1	40.0
53.647500	10.7	100.0	V	203.0	36.7	-26.0	29.4	40.0
163.012500	6.9	100.0	V	69.0	38.7	-31.8	36.6	43.5
526.887500	10.6	196.0	V	0.0	32.4	-21.8	35.4	46.0
885.212500	16.0	121.0	H	65.0	32.4	-16.4	30.0	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

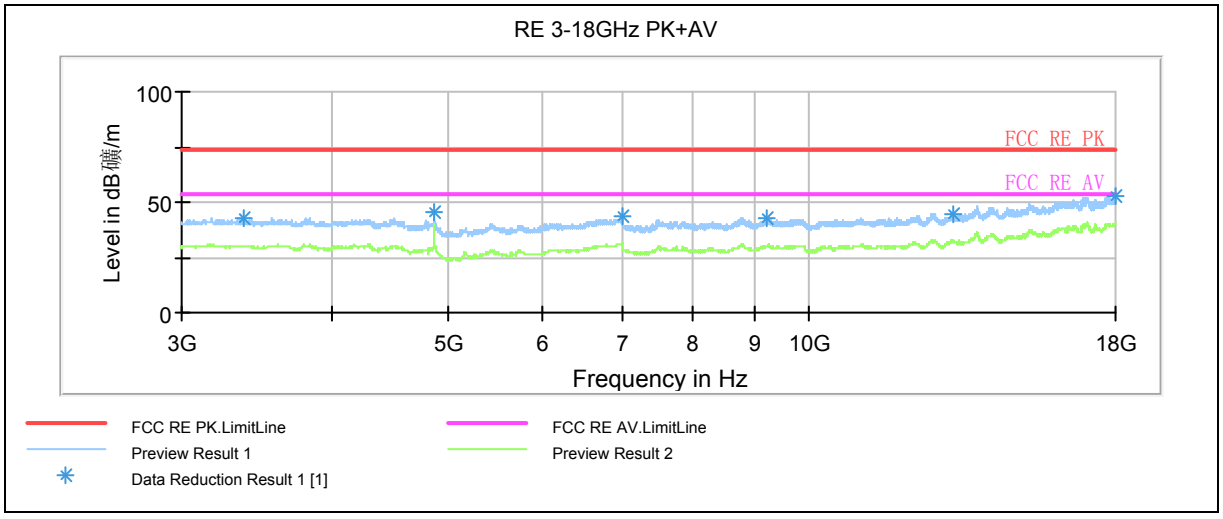
3. Margin = Limit – Quasi-Peak



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1099.125	32.1	19.8	100.0	V	0.0	-14.0
1401.000	33.1	22.0	100.0	V	64.0	-12.5
1723.500	35.9	24.4	100.0	V	0.0	-9.8
1963.875	37.0	25.7	100.0	H	0.0	-7.9
2436.000	92.7	82.3	100.0	H	0.0	-6.5
2896.125	41.1	29.0	100.0	H	0.0	-4.7

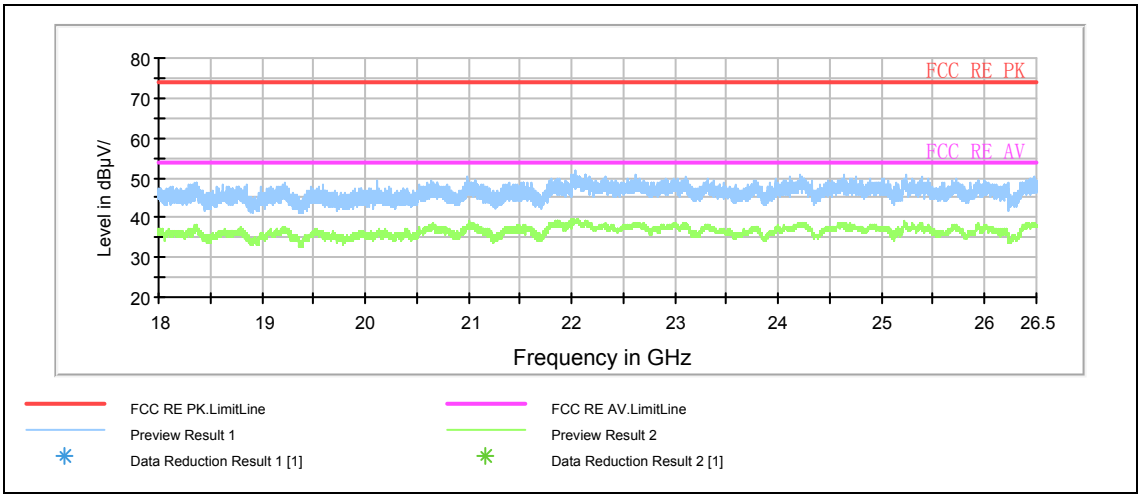
Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 3GHz to 18GHz

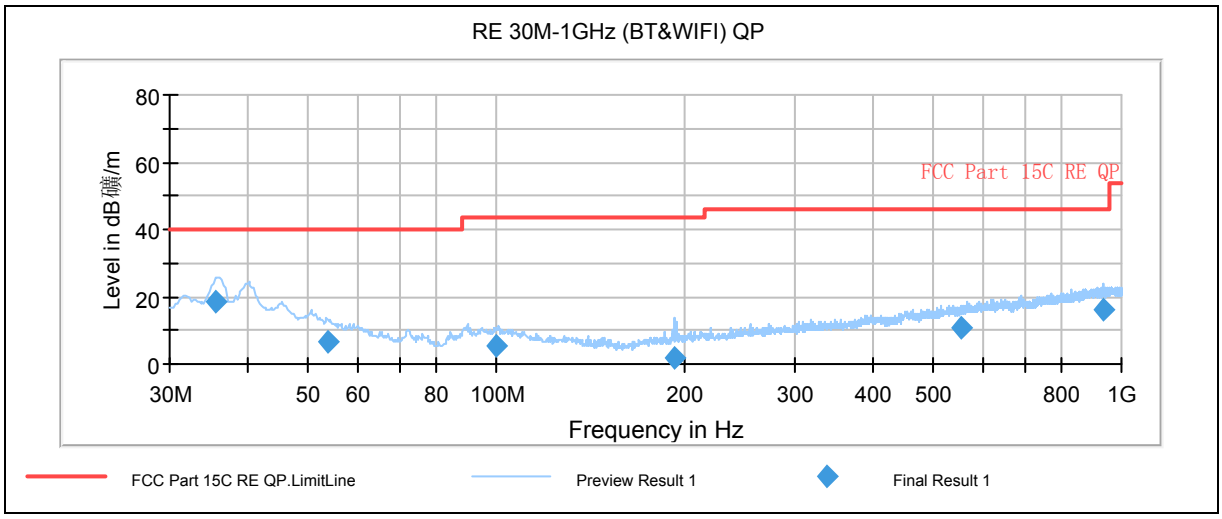
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3384.375	42.7	29.7	100.0	H	0.0	0.9
4873.125	45.7	39.6	100.0	V	0.0	3.4
6982.500	43.5	30.8	100.0	H	0.0	8.2
9219.375	42.9	30.0	100.0	V	164.0	10.3
13177.500	45.0	32.6	100.0	H	251.0	12.1
17986.875	52.3	40.0	100.0	V	199.0	17.8

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 18GHz to 26.5GHz

802.11b CH11



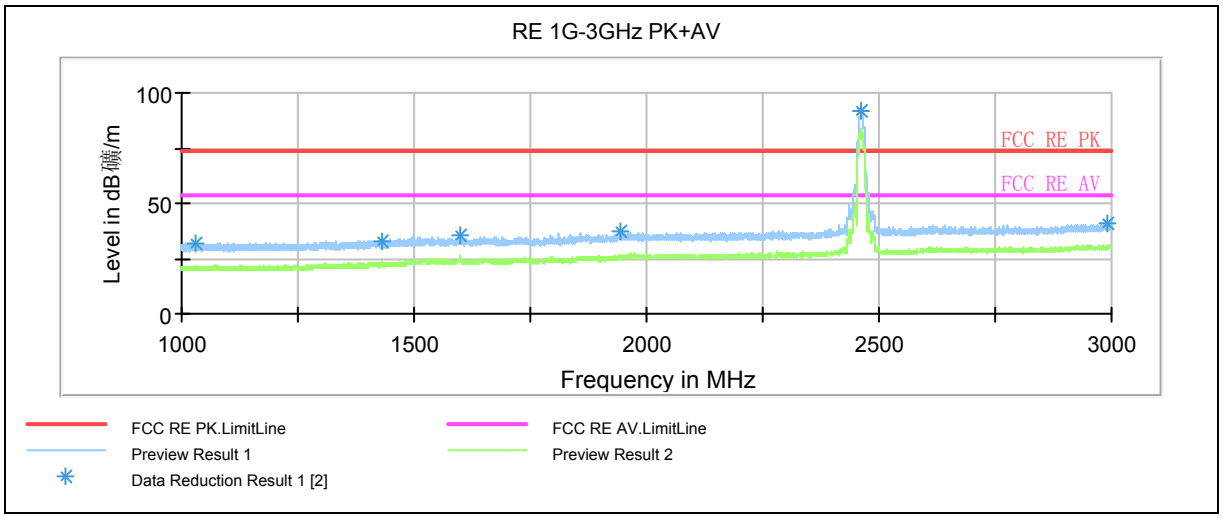
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
35.500000	18.8	120.0	V	204.0	43.2	-24.4	21.2	40.0
53.650000	6.4	125.0	V	83.0	32.4	-26.0	33.6	40.0
100.250000	5.4	225.0	H	172.0	33	-27.6	38.1	43.5
192.360000	1.9	100.0	V	17.0	32.4	-30.5	41.6	43.5
552.390000	10.8	200.0	V	247.0	32.3	-21.5	35.2	46.0
935.497500	16.2	100.0	V	269.0	32.3	-16.1	29.8	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

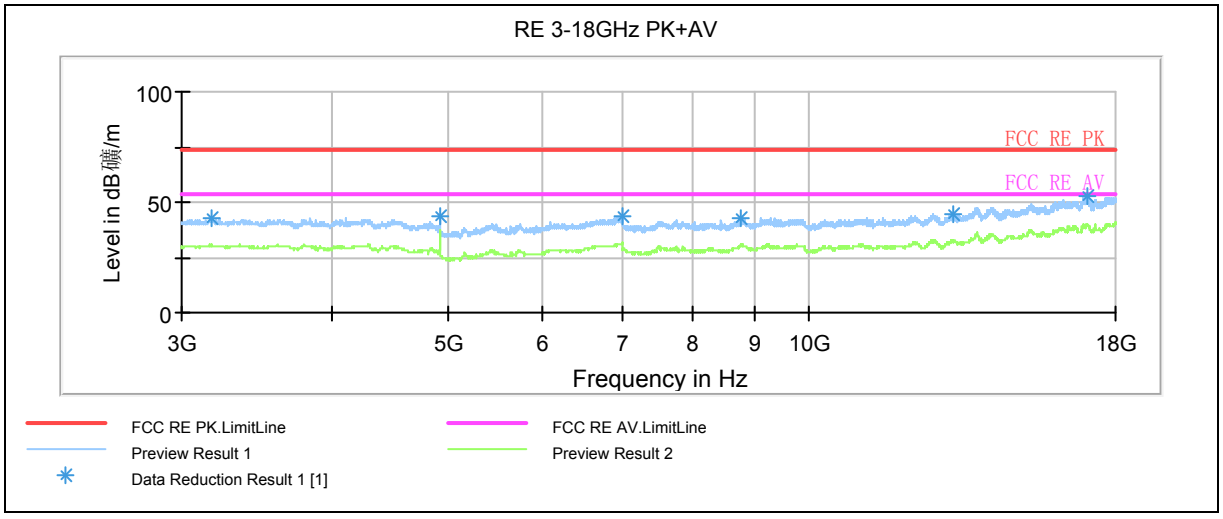
3. Margin = Limit – Quasi-Peak



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1030.500	32.0	20.0	100.0	V	0.0	-13.8
1431.000	33.2	22.4	100.0	V	0.0	-12.4
1597.500	35.3	24.1	100.0	H	0.0	-10.1
1943.625	37.3	24.7	100.0	V	0.0	-8.3
2462.625	92.0	84.0	100.0	H	0.0	-6.6
2992.875	41.0	30.5	100.0	V	0.0	-3.8

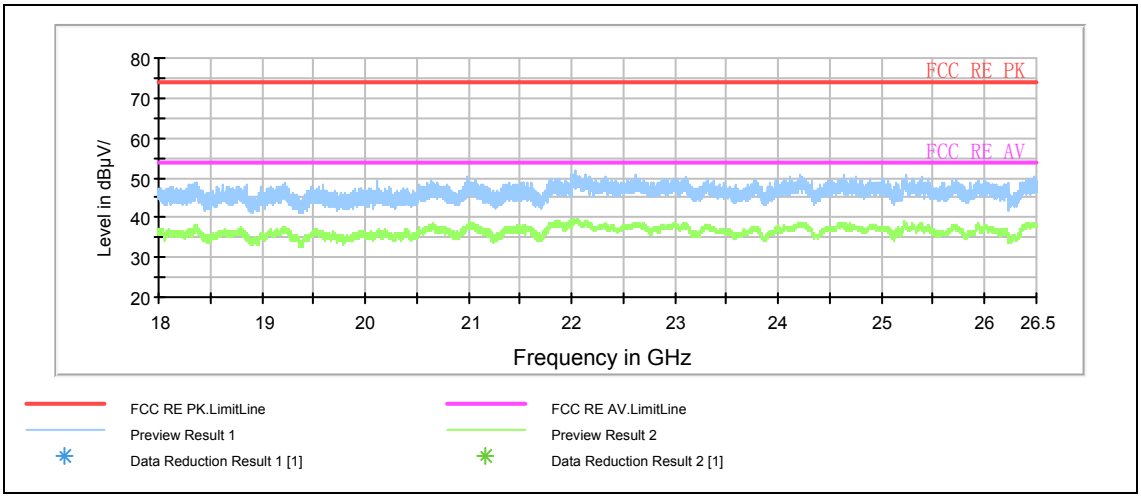
Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 3GHz to 18GHz

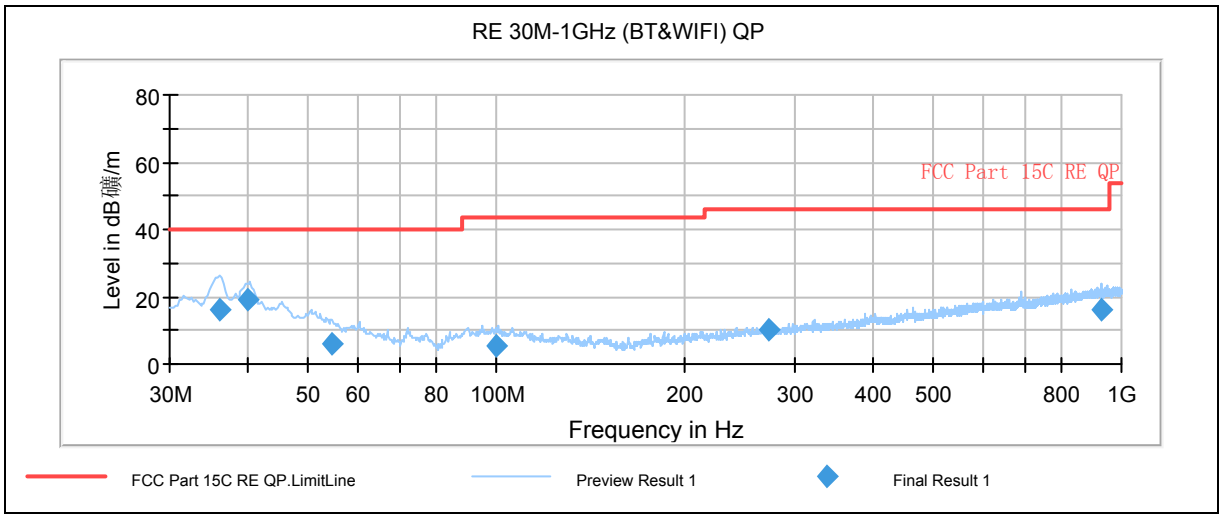
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3178.125	43.0	30.3	100.0	H	205.0	0.8
4923.750	43.8	36.9	100.0	V	0.0	3.5
6982.500	43.2	31.0	100.0	V	350.0	8.2
8784.375	42.6	30.7	100.0	V	0.0	10.3
13188.750	44.7	32.3	100.0	V	328.0	12.1
17062.500	52.3	39.9	100.0	V	0.0	16.3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 18GHz to 26.5GHz

802.11g CH1



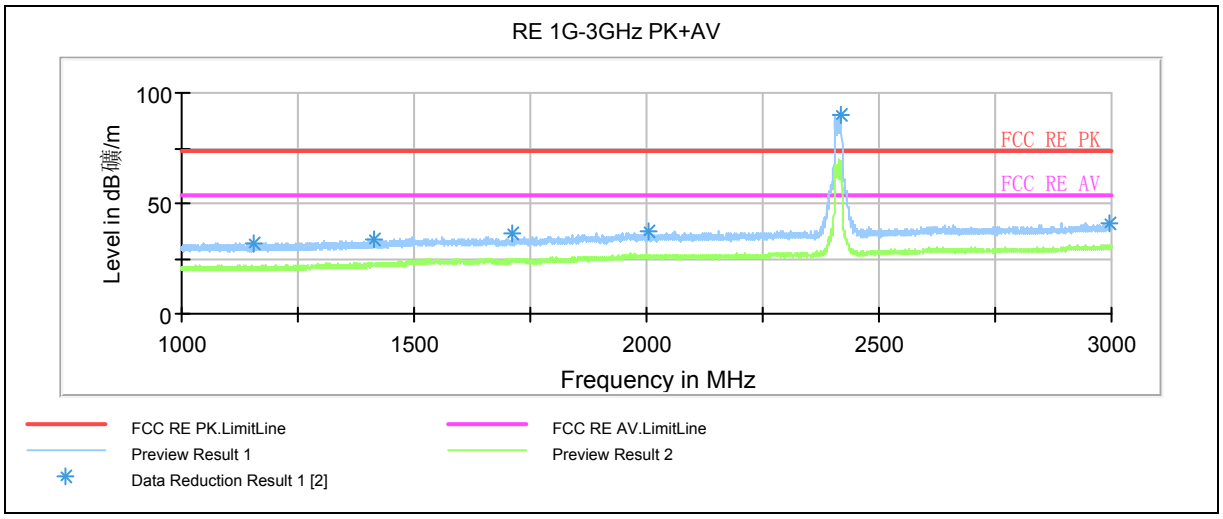
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
36.022500	16.2	121.0	V	294.0	40.5	-24.3	23.8	40.0
40.147500	19.2	100.0	V	215.0	43.1	-23.9	20.8	40.0
54.450000	5.8	125.0	H	185.0	31.9	-26.1	34.2	40.0
100.007500	5.1	125.0	V	13.0	32.7	-27.6	38.4	43.5
272.015000	10.3	196.0	H	246.0	38.2	-27.9	35.7	46.0
930.287500	16.0	221.0	H	314.0	32.2	-16.2	30.0	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

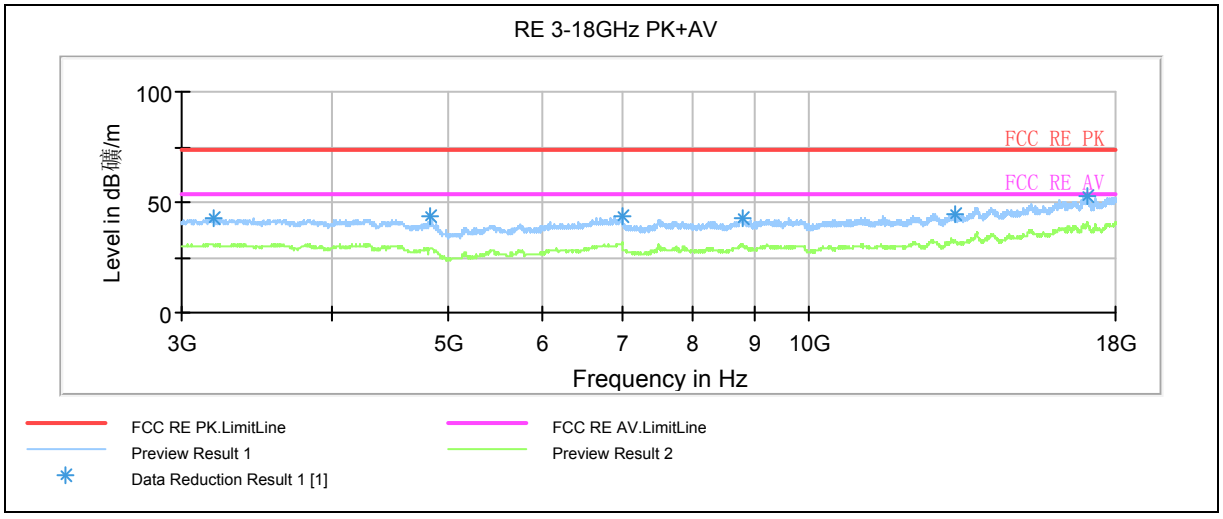


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1156.750	31.8	19.9	100.0	V	34.0	-13.9
1414.625	33.4	22.1	100.0	H	114.0	-12.4
1712.250	35.9	23.5	100.0	V	0.0	-9.9
2005.500	37.0	26.0	100.0	H	0.0	-8.1
2417.250	89.9	67.0	100.0	H	0.0	-6.1
2997.000	40.7	30.2	100.0	V	0.0	-3.7

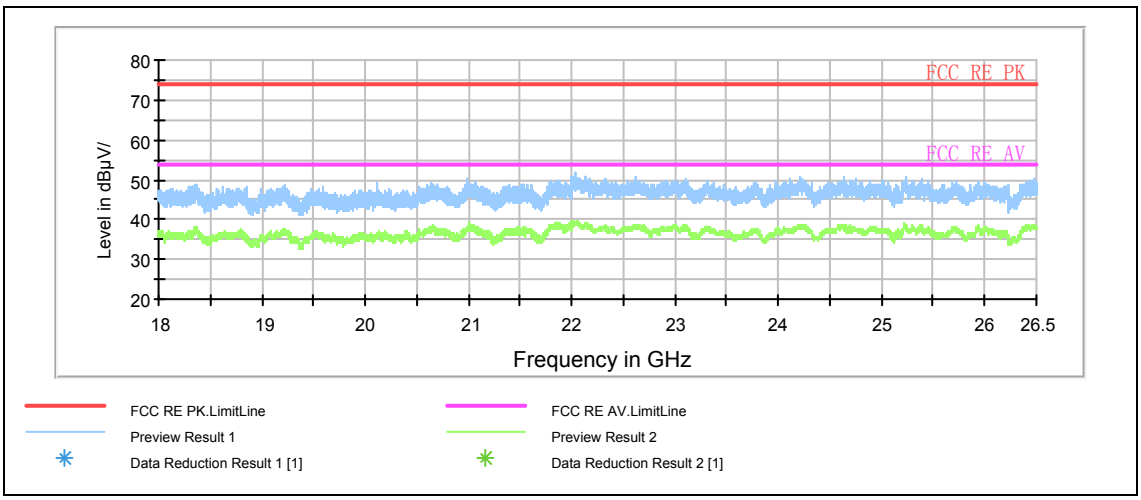
Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 3GHz to 18GHz

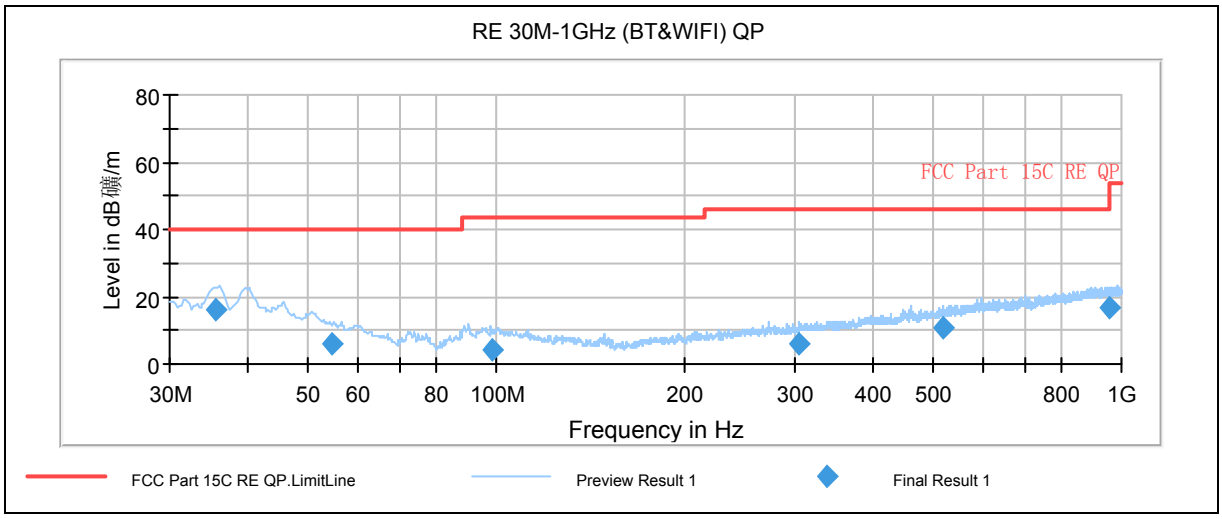
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3195.000	42.6	30.0	100.0	H	68.0	0.8
4828.125	43.7	29.5	100.0	V	0.0	3.2
6991.875	43.3	31.0	100.0	H	90.0	8.5
8799.375	42.7	30.6	100.0	H	0.0	10.3
13245.000	44.4	31.5	100.0	H	44.0	12.2
17041.875	52.5	40.2	100.0	V	262.0	16.2

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 18GHz to 26.5GHz

802.11g CH6



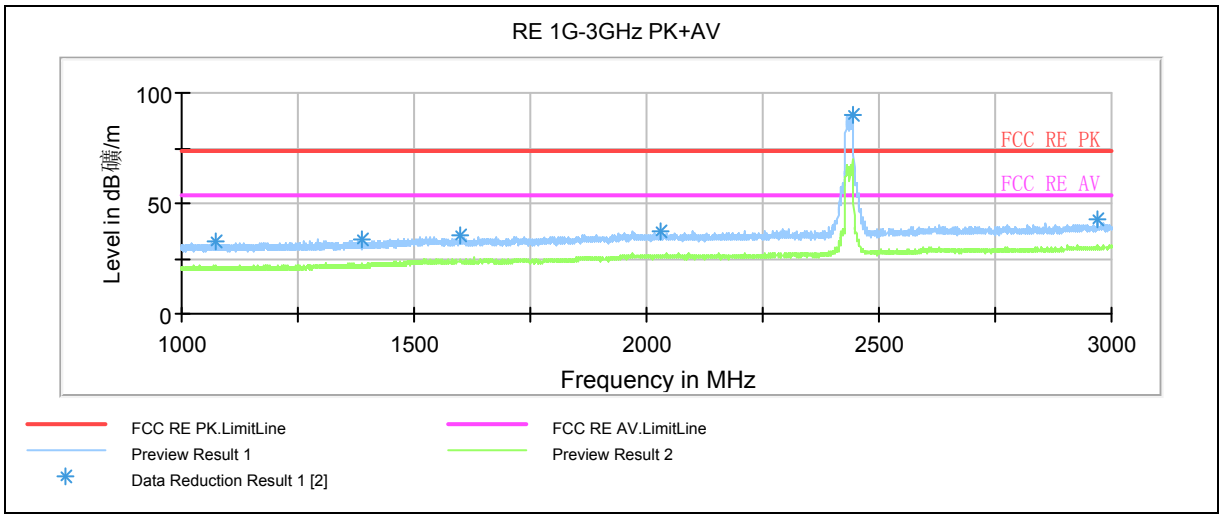
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
35.462500	16.2	175.0	V	328.0	40.6	-24.4	23.8	40.0
54.367500	6.1	125.0	H	251.0	32.2	-26.1	33.9	40.0
98.460000	4.2	221.0	H	306.0	32	-27.8	39.3	43.5
305.480000	5.7	175.0	H	34.0	32.3	-26.6	40.3	46.0
518.632500	10.6	125.0	V	45.0	32.4	-21.8	35.4	46.0
958.082500	16.5	125.0	V	220.0	32.2	-15.7	29.5	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

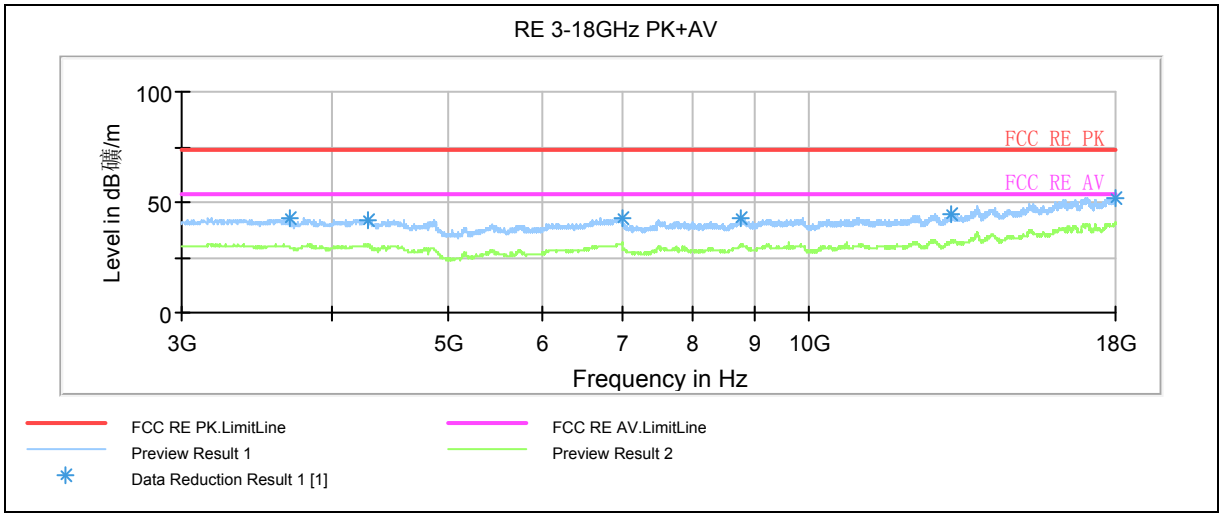
3. Margin = Limit – Quasi-Peak



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1072.000	32.5	20.4	100.0	H	39.0	-13.7
1389.750	33.4	21.0	100.0	H	144.0	-12.8
1600.500	35.3	24.2	100.0	H	0.0	-10.1
2031.375	37.0	26.0	100.0	V	0.0	-8.0
2442.000	90.1	70.1	100.0	H	0.0	-6.5
2971.125	42.5	30.2	100.0	H	0.0	-4.1

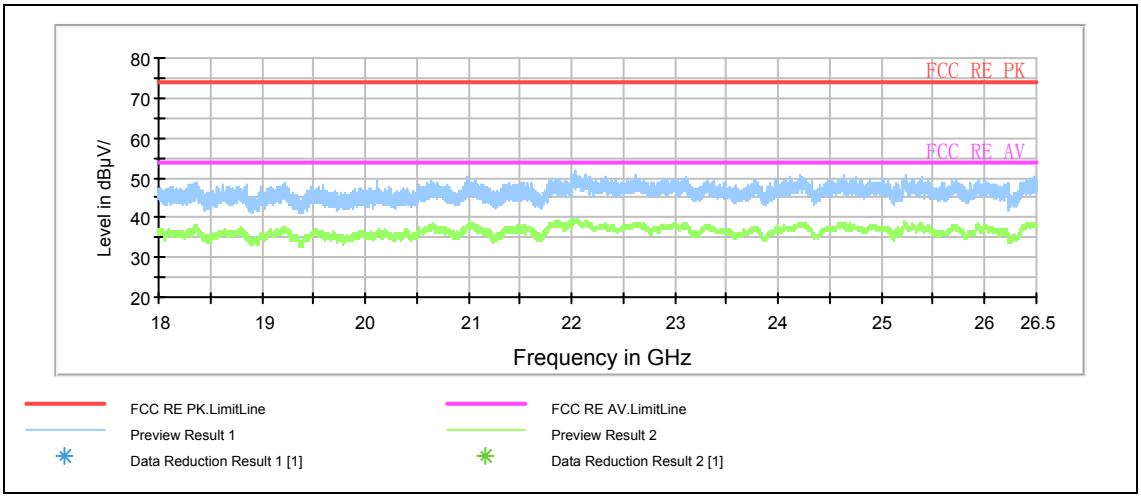
Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 3GHz to 18GHz

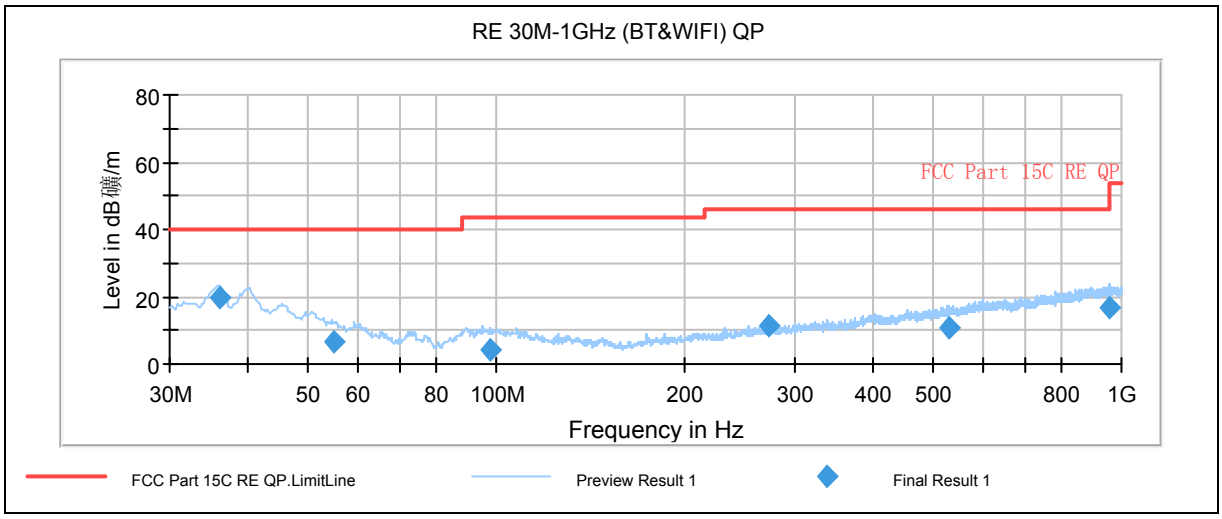
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3690.000	42.5	29.8	100.0	V	325.0	1.7
4295.625	42.2	30.6	100.0	H	0.0	3.2
6995.625	43.2	31.2	100.0	H	0.0	8.6
8782.500	42.5	30.7	100.0	H	241.0	10.3
13141.875	44.5	32.3	100.0	H	33.0	12.0
17988.750	52.2	40.0	100.0	H	125.0	17.8

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 18GHz to 26.5GHz

802.11g CH11



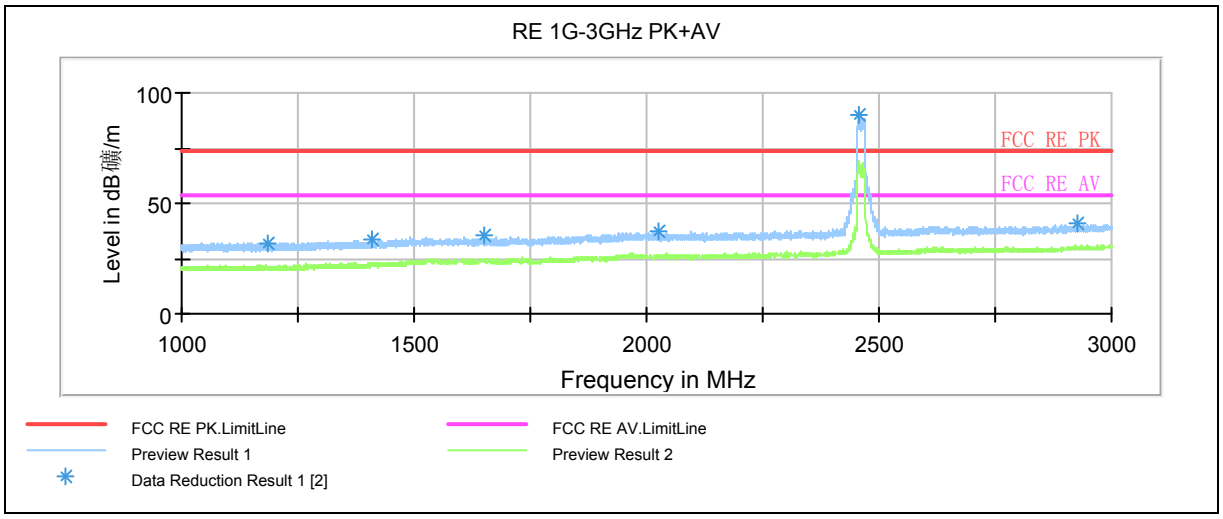
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
36.062500	20.0	175.0	V	340.0	44.3	-24.3	20.0	40.0
55.052500	6.5	225.0	H	268.0	32.7	-26.2	33.5	40.0
97.697500	4.4	221.0	V	6.0	32.3	-27.9	39.1	43.5
272.015000	11.1	125.0	H	153.0	39	-27.9	34.9	46.0
530.797500	10.8	175.0	H	33.0	32.6	-21.8	35.2	46.0
960.187500	16.5	221.0	V	51.0	32.1	-15.6	37.5	54.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

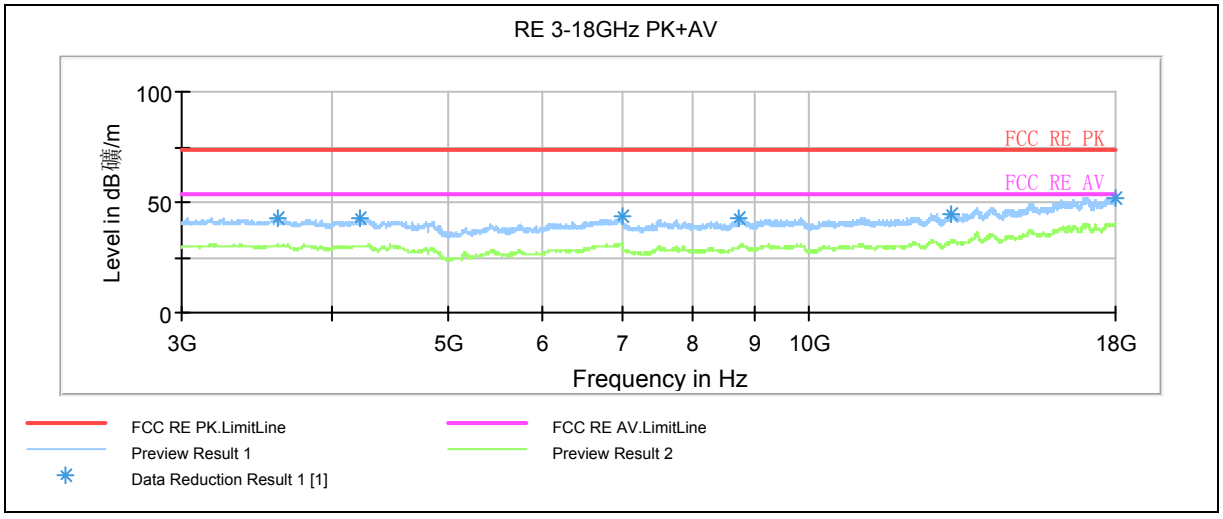
3. Margin = Limit – Quasi-Peak



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1186.750	32.1	20.4	100.0	V	322.0	-13.6
1411.375	33.2	21.8	100.0	V	0.0	-12.4
1649.625	35.1	23.7	100.0	V	0.0	-10.1
2026.875	37.0	26.1	100.0	V	0.0	-8.0
2455.875	90.0	68.9	100.0	H	0.0	-6.6
2927.625	40.7	29.8	100.0	V	0.0	-4.0

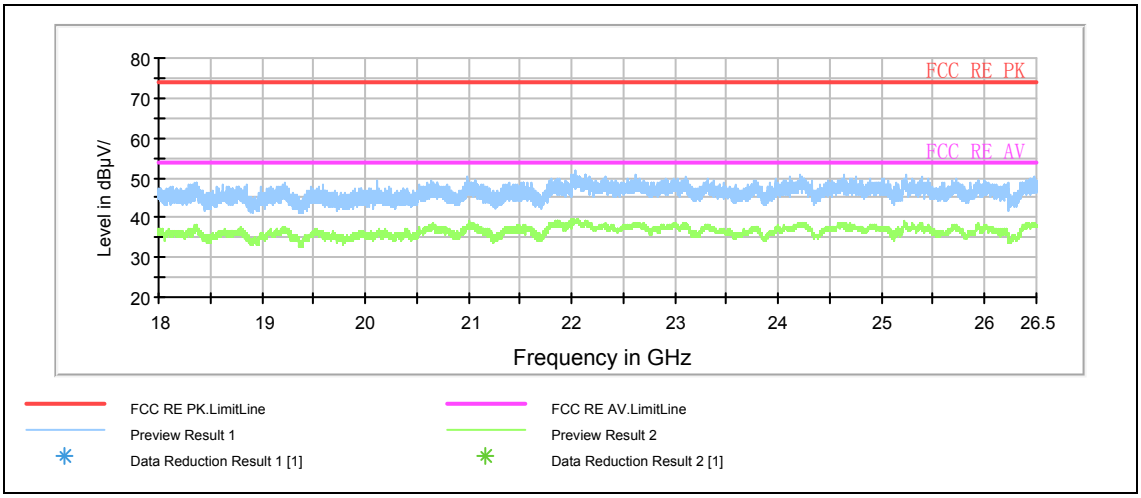
Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3603.750	43.0	30.4	100.0	H	264.0	1.3
4224.375	42.4	30.1	100.0	V	269.0	2.9
6993.750	43.4	31.4	100.0	V	234.0	8.5
8733.750	42.8	29.4	100.0	H	206.0	10.2
13132.500	44.9	32.1	100.0	H	81.0	12.0
18000.000	52.3	40.5	100.0	H	11.0	17.9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)



Radiates Emission from 18GHz to 26.5GHz

2.3. Conducted Emissions

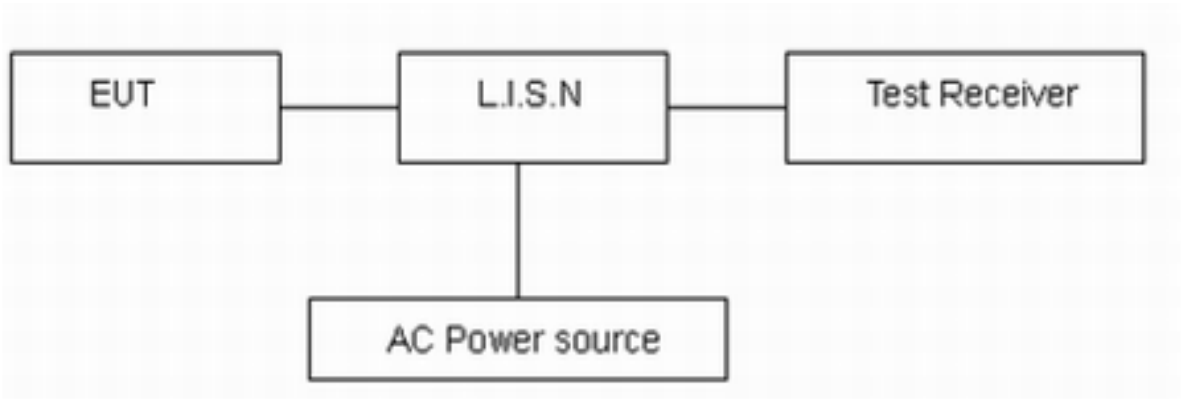
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT IS placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. Connect the AC power line of the EUT to the LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz,VBW is set to 30kHz The measurement result should include both L line and N line. The test is in transmit mode.

Test setup



Note: AC Power source is used to change the voltage from 220V/50Hz to 110V/60Hz.

Limits

Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50
*: Decreases with the logarithm of the frequency.		

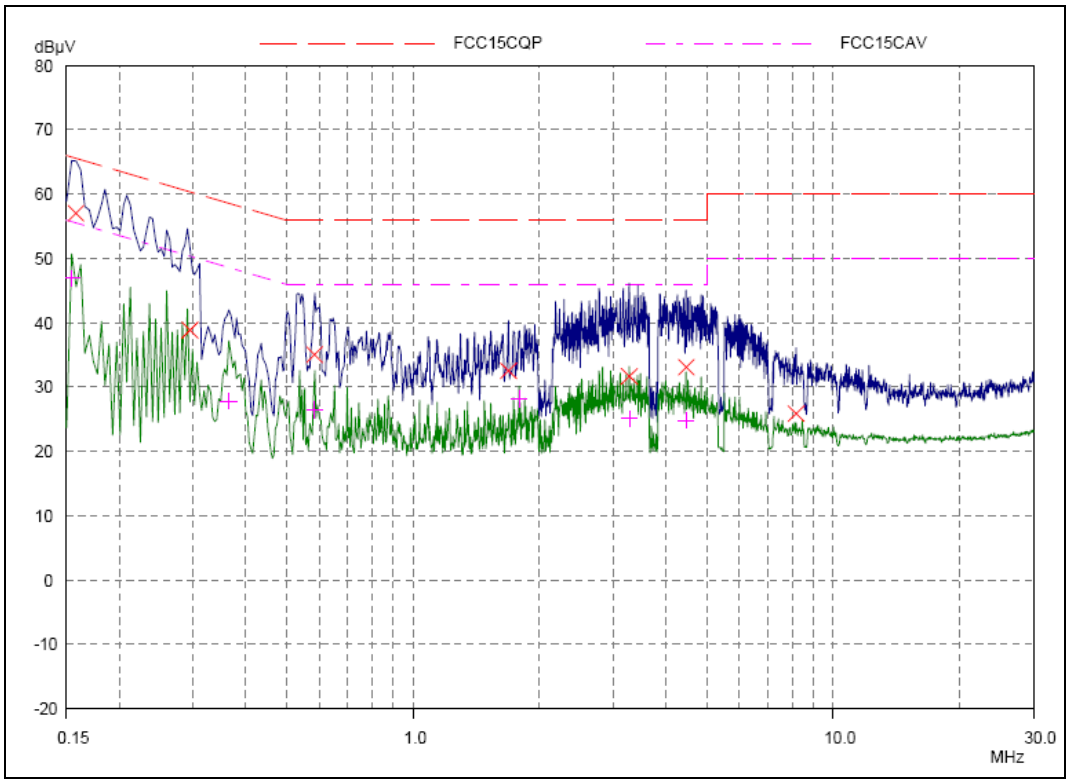
Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96, U= 2.69 dB.

Test Results:

Charger 1

802.11b CH1

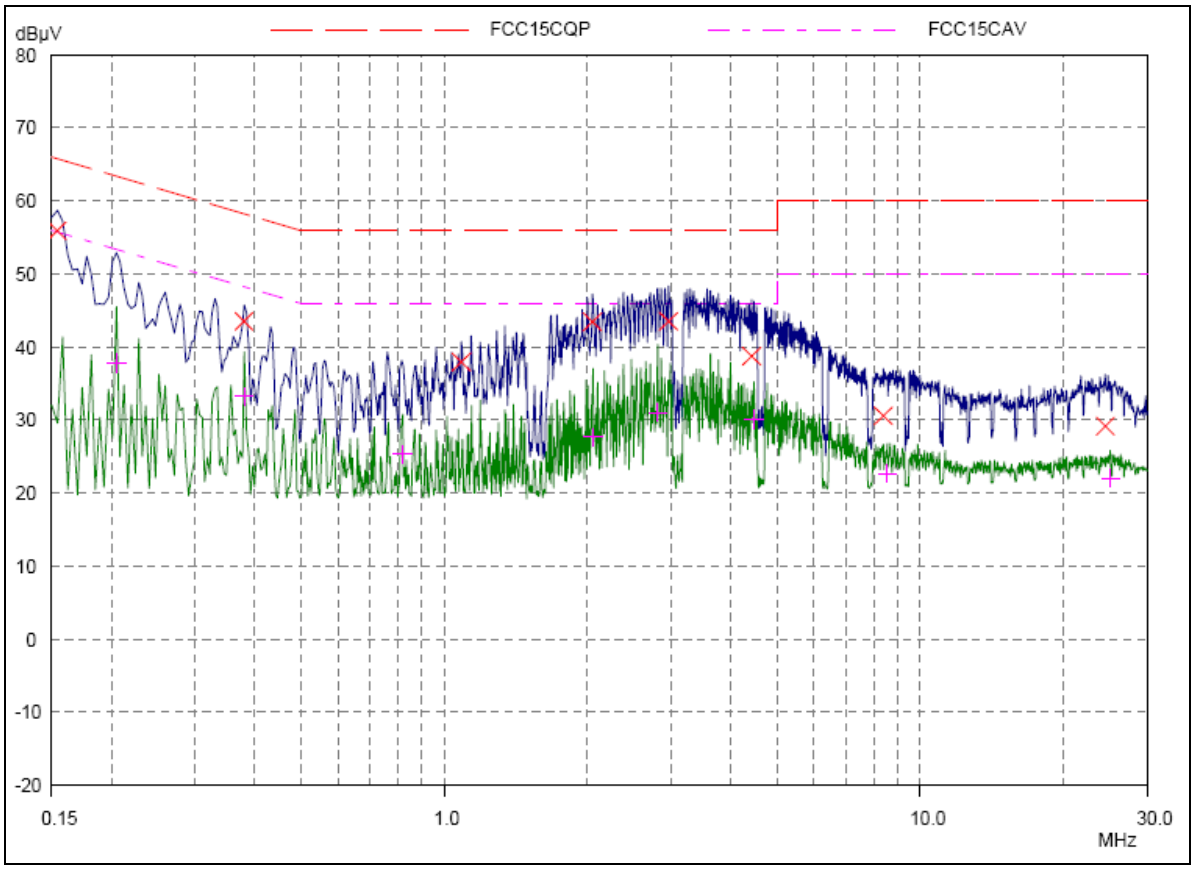


L Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.15781	57.01	65.58	8.57	L1
0.29453	38.86	60.40	21.54	L1
0.58359	35.04	56.00	20.96	L1
1.68906	32.55	56.00	23.45	L1
3.27109	31.68	56.00	24.32	L1
4.4625	33.11	56.00	22.89	L1
8.15781	25.88	60.00	34.12	L1

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.1539	46.92	55.79	8.87	L1
0.36484	27.83	48.62	20.79	L1
0.58359	26.42	46.00	19.58	L1
1.79062	28.14	46.00	17.86	L1
3.27109	25.11	46.00	20.89	L1
4.4625	24.84	46.00	21.16	L1



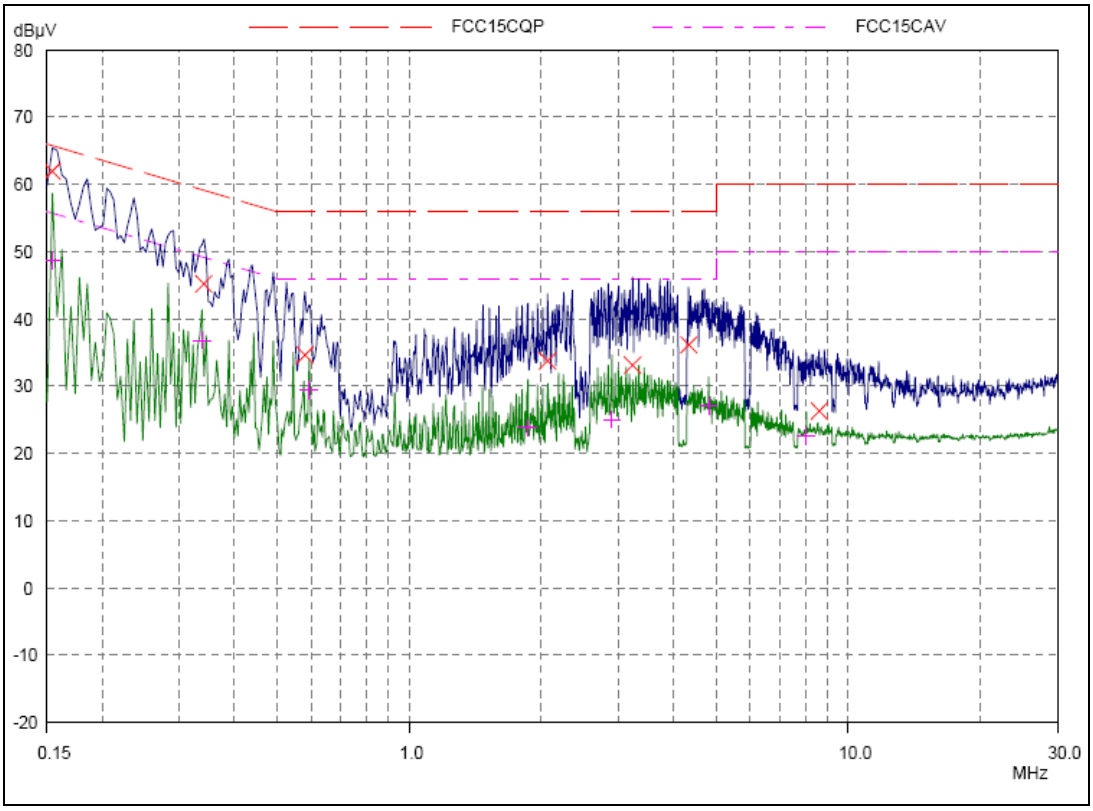
N Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.1539	55.92	65.79	9.87	N
0.38046	43.53	58.27	14.74	N
1.0875	37.95	56.00	18.05	N
2.04843	43.45	56.00	12.55	N
2.9625	43.53	56.00	12.47	N
4.43125	38.75	56.00	17.25	N
8.37656	30.57	60.00	29.43	N
24.50156	29.18	60.00	30.82	N

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.20468	37.77	53.42	15.65	N
0.38046	33.23	48.27	15.04	N
0.81796	25.34	46.00	20.66	N
2.05625	27.68	46.00	18.32	N
2.81015	31.05	46.00	14.95	N
4.47812	30.09	46.00	15.91	N
8.53671	22.73	50.00	27.27	N
25.06406	22.11	50.00	27.89	N

802.11b CH6

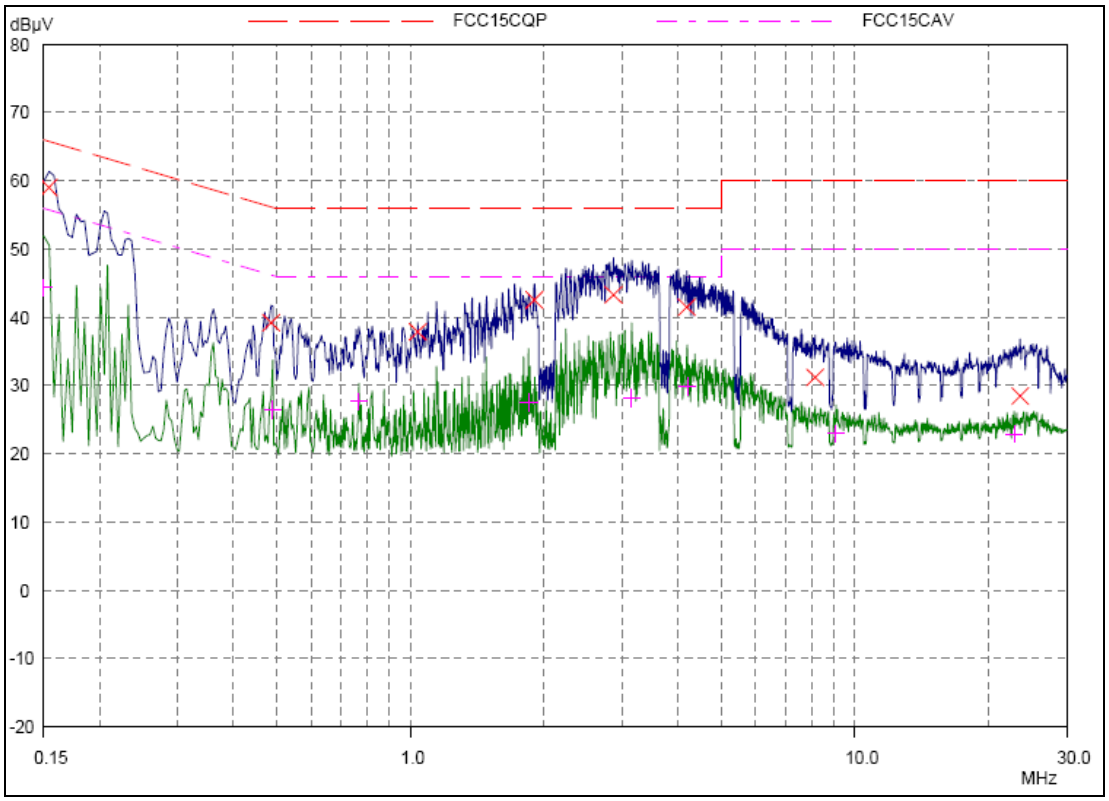


L Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.1539	61.96	65.79	3.83	L1
0.3414	45.22	59.17	13.95	L1
0.57968	34.62	56.00	21.38	L1
2.06795	33.77	56.00	22.23	L1
3.23203	33.13	56.00	22.87	L1
4.32578	36.17	56.00	19.83	L1
8.57578	26.32	60.00	33.68	L1

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.1539	48.70	55.79	7.09	L1
0.3375	36.85	49.26	12.41	L1
0.5914	29.53	46.00	16.47	L1
1.86484	23.88	46.00	22.12	L1
2.89609	25.05	46.00	20.95	L1
4.80625	27.04	46.00	18.96	L1
8.03281	22.58	50.00	27.42	L1



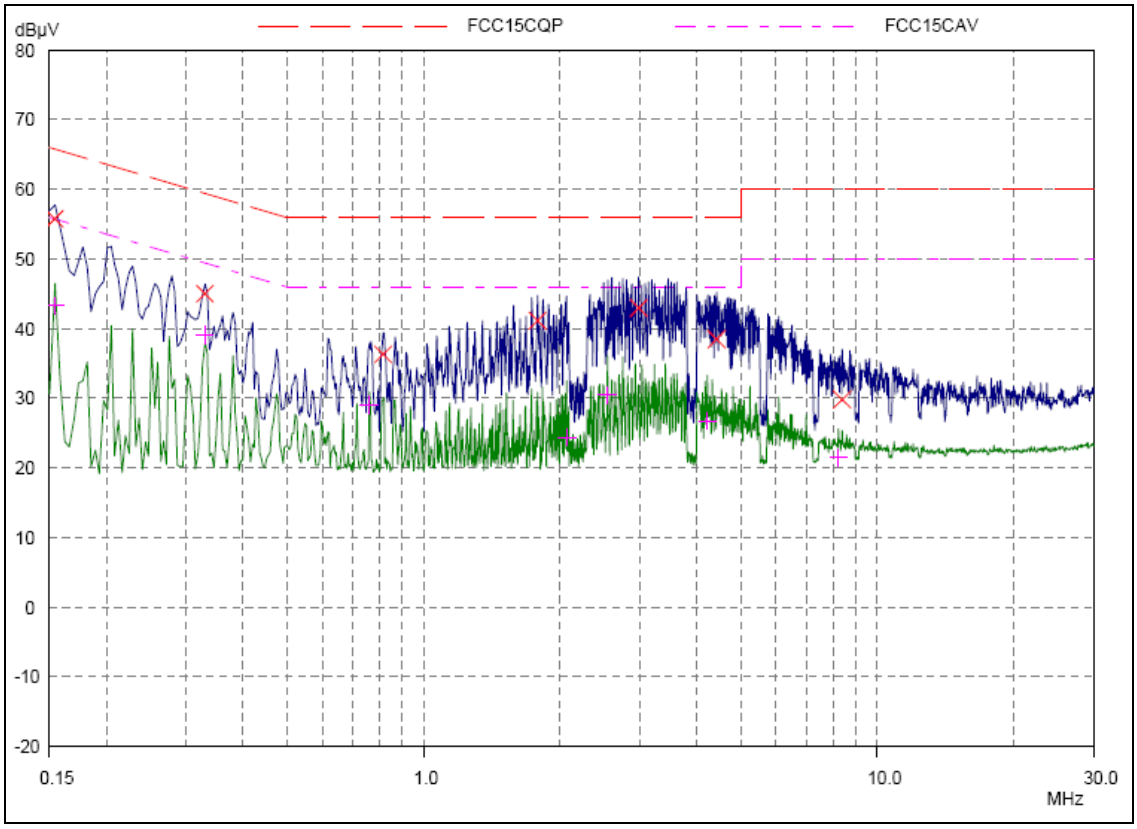
N Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.1539	59.02	65.79	6.77	N
0.48593	39.21	56.24	17.03	N
1.04062	37.88	56.00	18.12	N
1.9	42.55	56.00	13.45	N
2.86875	43.29	56.00	12.71	N
4.19296	41.49	56.00	14.51	N
8.14608	31.19	60.00	28.81	N
23.56015	28.49	60.00	31.51	N

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.15	44.38	56.00	11.62	N
0.48984	26.46	46.17	19.71	N
0.76718	27.62	46.00	18.38	N
1.84531	27.52	46.00	18.48	N
3.15	28.12	46.00	17.88	N
4.20078	29.88	46.00	16.12	N
9.06796	23.00	50.00	27.00	N
22.81796	22.89	50.00	27.11	N

802.11b CH11

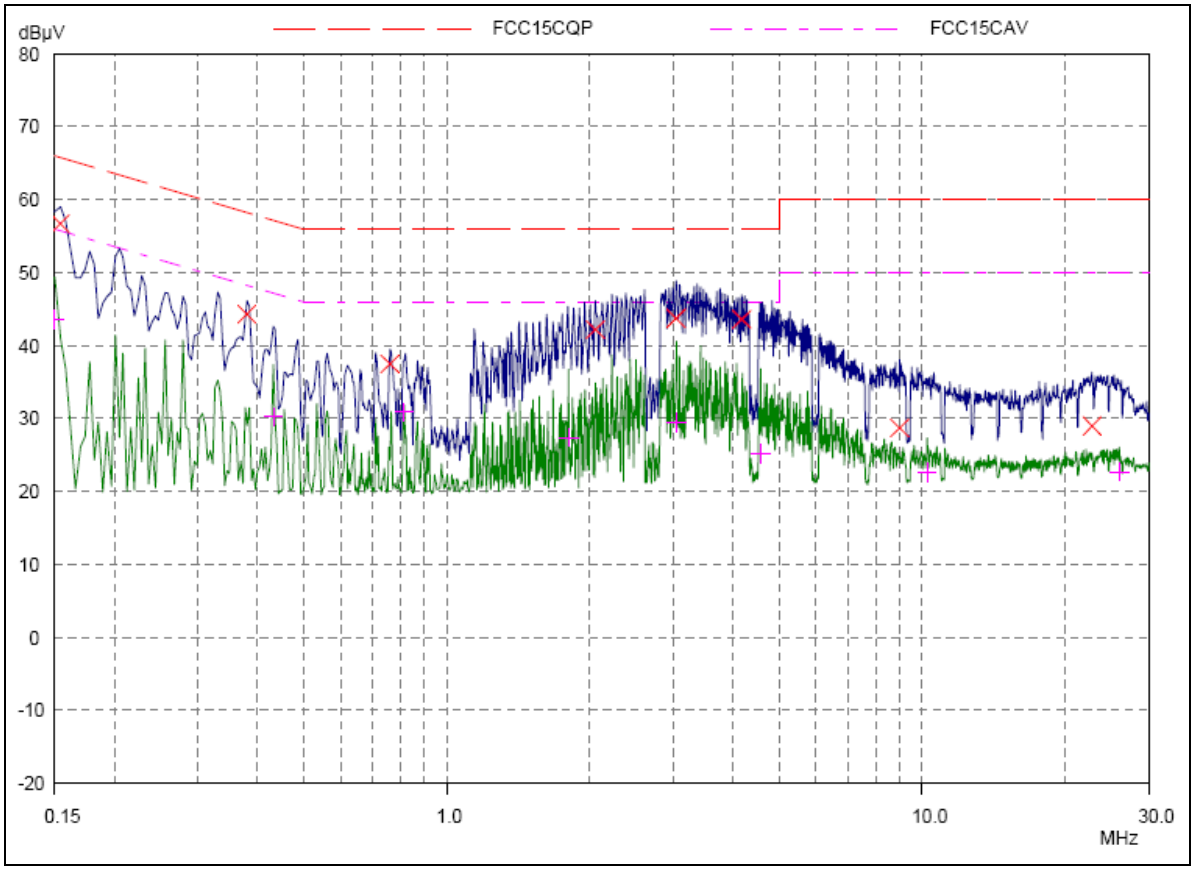


L Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.1539	55.78	65.79	10.01	L1
0.32968	45.03	59.46	14.43	L1
0.81406	36.31	56.00	19.69	L1
1.78281	41.14	56.00	14.86	L1
2.98203	42.95	56.00	13.05	L1
4.43125	38.47	56.00	17.53	L1
8.37265	29.79	60.00	30.21	L1

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.1539	43.32	55.79	12.47	L1
0.32968	39.08	49.46	10.38	L1
0.75937	29.01	46.00	16.99	L1
2.06406	24.39	46.00	21.61	L1
2.54453	30.46	46.00	15.54	L1
4.22812	26.73	46.00	19.27	L1
8.2242	21.43	50.00	28.57	L1



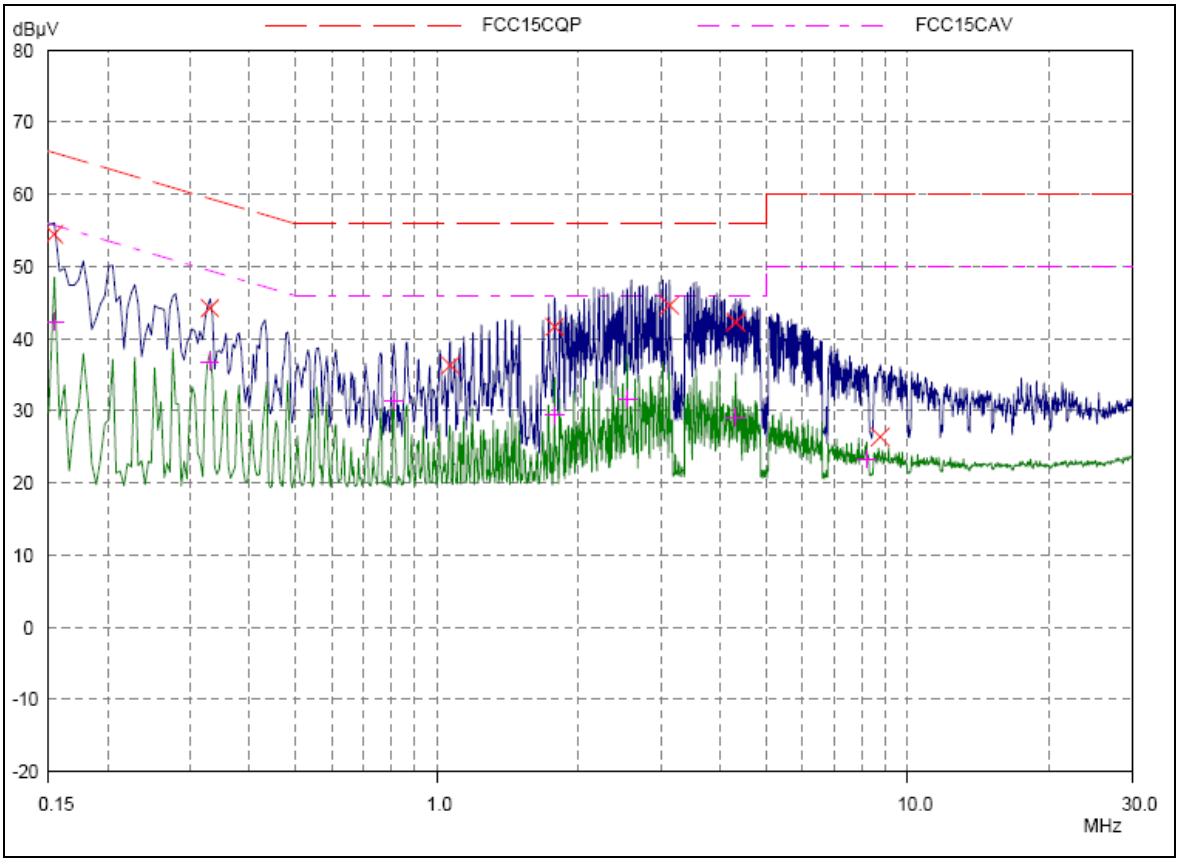
N Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.1539	56.72	65.79	9.07	N
0.38046	44.29	58.27	13.98	N
0.75937	37.50	56.00	18.50	N
2.05234	42.23	56.00	13.77	N
3.04062	43.72	56.00	12.28	N
4.17734	43.61	56.00	12.39	N
8.9664	28.69	60.00	31.31	N
22.74375	28.98	60.00	31.02	N

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.15	43.60	56.00	12.40	N
0.43125	30.23	47.23	17.00	N
0.81406	30.85	46.00	15.15	N
1.80234	27.38	46.00	18.62	N
3.04453	29.48	46.00	16.52	N
4.57187	25.18	46.00	20.82	N
10.26328	22.61	50.00	27.39	N
26.00156	22.64	50.00	27.36	N

802.11g CH1

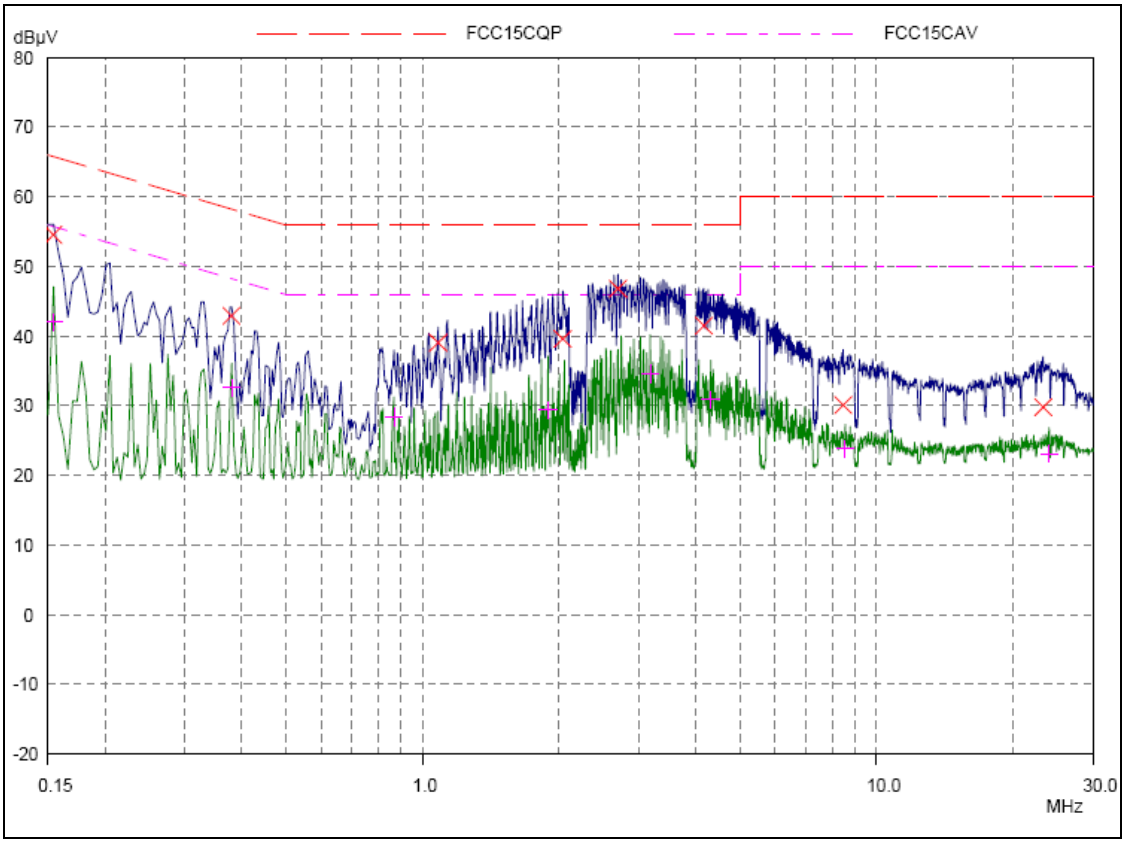


L Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.1539	54.48	65.79	11.31	L1
0.32968	44.25	59.46	15.21	L1
1.06796	36.29	56.00	19.71	L1
1.7789	41.66	56.00	14.34	L1
3.12265	44.63	56.00	11.37	L1
4.31796	42.25	56.00	13.75	L1
8.74765	26.39	60.00	33.61	L1

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.1539	42.35	55.79	13.44	L1
0.32968	36.76	49.46	12.70	L1
0.81015	31.52	46.00	14.48	L1
1.7789	29.37	46.00	16.63	L1
2.53671	31.68	46.00	14.32	L1
4.31796	29.09	46.00	16.91	L1
8.20078	23.35	50.00	26.65	L1



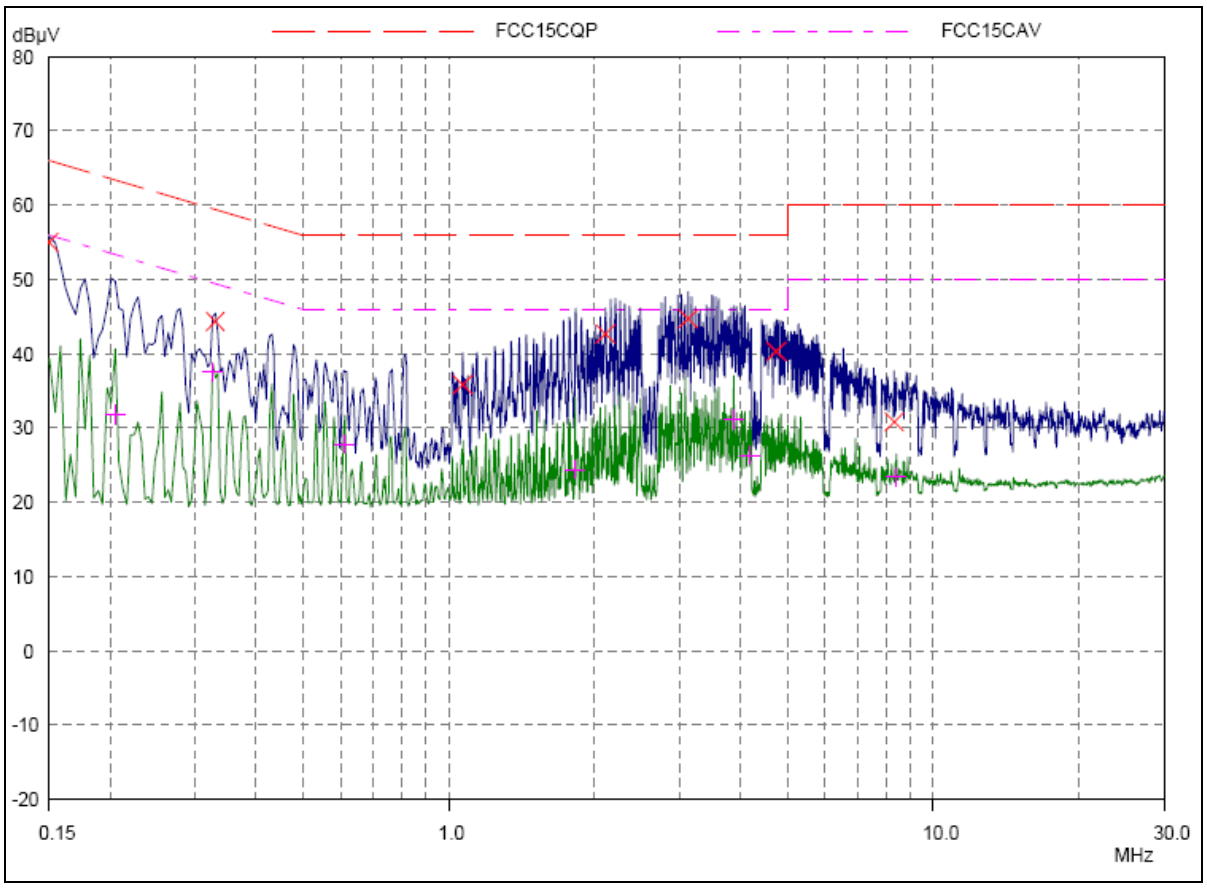
N Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.1539	54.56	65.79	11.23	N
0.38046	42.91	58.27	15.36	N
1.08359	39.09	56.00	16.91	N
2.0367	39.59	56.00	16.41	N
2.69296	46.80	56.00	9.20	N
4.16171	41.52	56.00	14.48	N
8.45468	30.14	60.00	29.86	N
23.25546	29.81	60.00	30.19	N

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.1539	42.04	55.79	13.75	N
0.38046	32.56	48.27	15.71	N
0.86484	28.42	46.00	17.58	N
1.89218	29.39	46.00	16.61	N
3.17343	34.63	46.00	11.37	N
4.31796	30.84	46.00	15.16	N
8.53671	23.81	50.00	26.19	N
23.99375	23.12	50.00	26.88	N

802.11g CH6

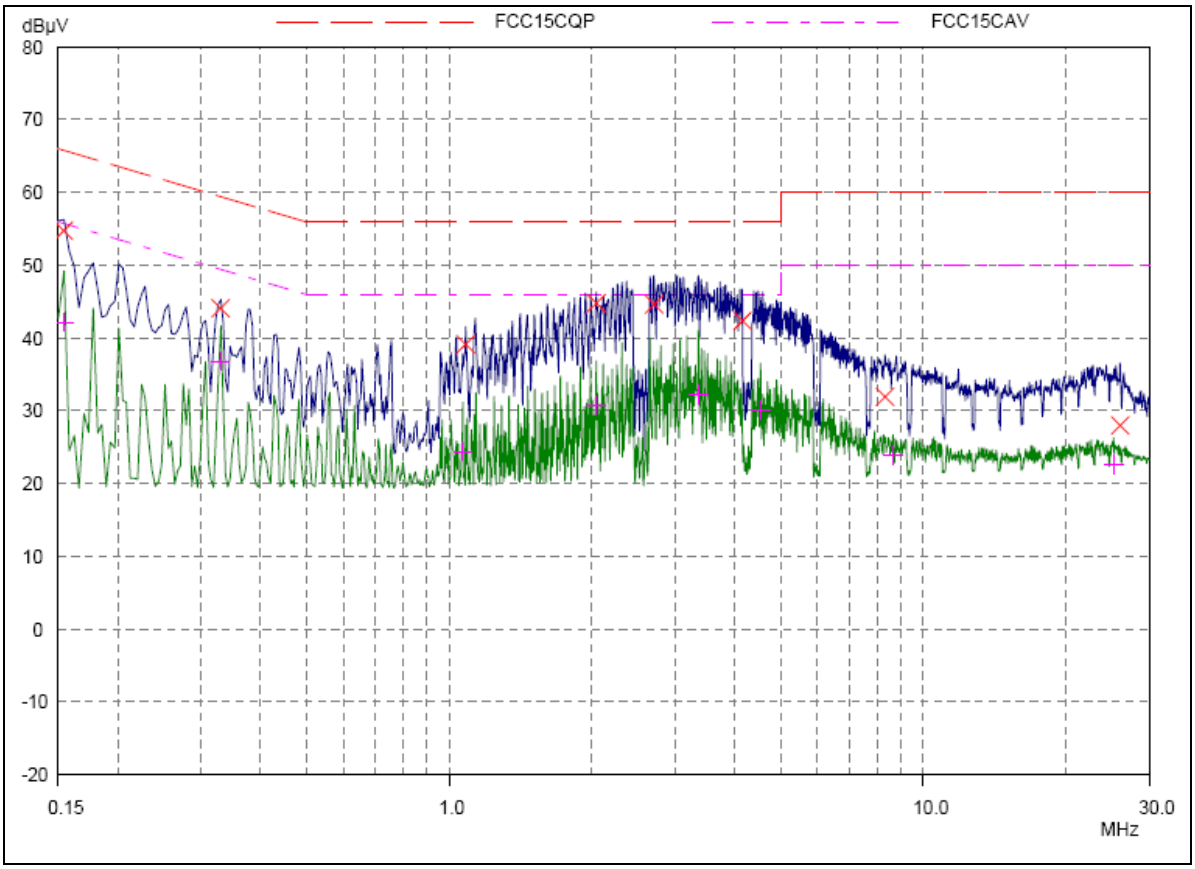


L Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.15	55.02	66.00	10.98	L1
0.32968	44.37	59.46	15.09	L1
1.06796	35.87	56.00	20.13	L1
2.10703	42.66	56.00	13.34	L1
3.12265	44.73	56.00	11.27	L1
4.74765	40.32	56.00	15.68	L1
8.30233	30.82	60.00	29.18	L1

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.20468	31.82	53.42	21.60	L1
0.32578	37.50	49.56	12.06	L1
0.61093	27.82	46.00	18.18	L1
1.82578	24.45	46.00	21.55	L1
3.88046	31.14	46.00	14.86	L1
4.18515	26.34	46.00	19.66	L1
8.4039	23.39	50.00	26.61	L1



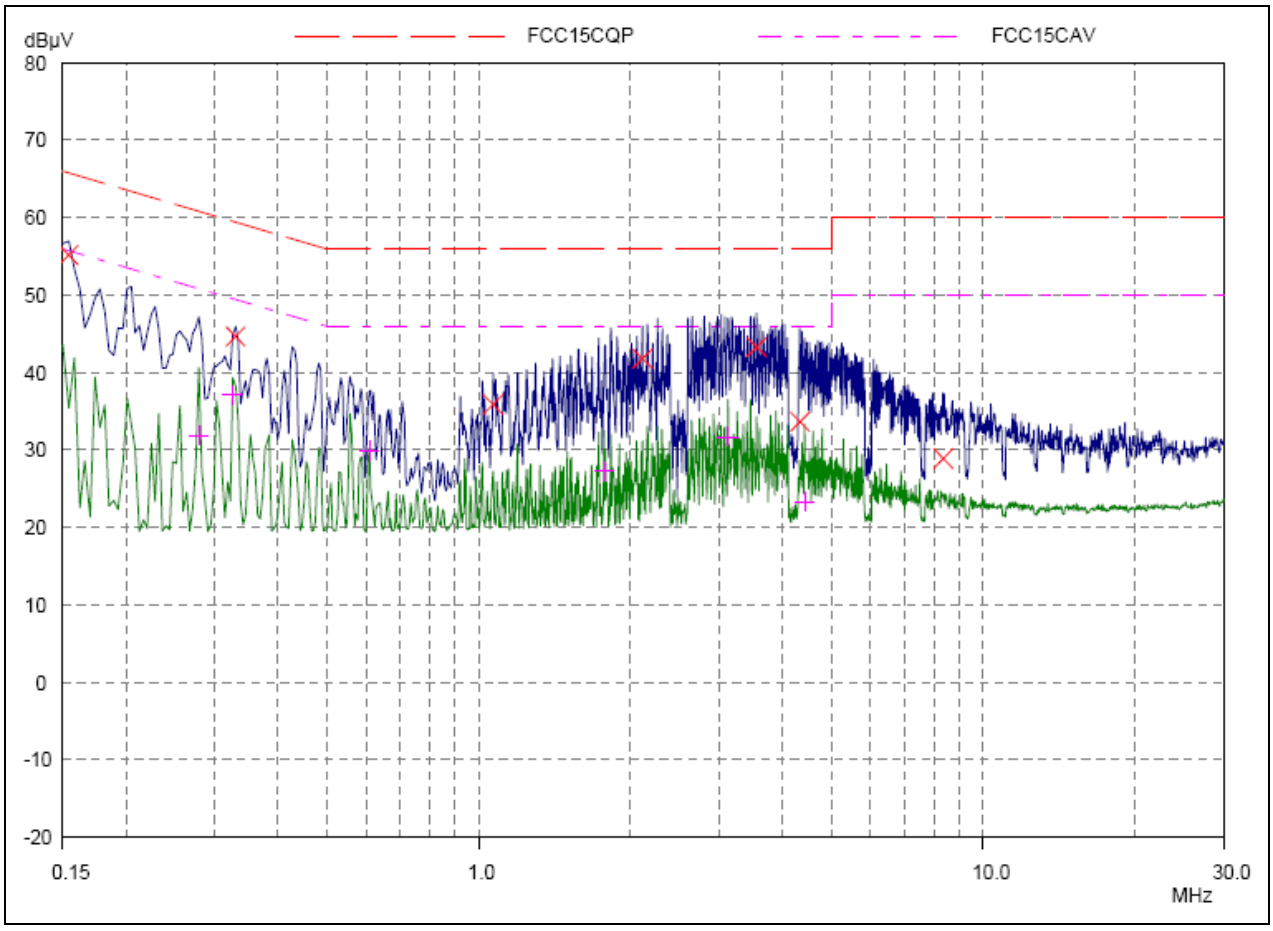
N Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.1539	54.72	65.79	11.07	N
0.32968	44.05	59.46	15.41	N
1.08359	39.15	56.00	16.85	N
2.04062	44.79	56.00	11.21	N
2.70078	44.64	56.00	11.36	N
4.15	42.34	56.00	13.66	N
8.31015	31.94	60.00	28.06	N
26.03281	27.98	60.00	32.02	N

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.1539	42.17	55.79	13.62	N
0.32968	36.76	49.46	12.70	N
1.06796	24.45	46.00	21.55	N
2.04453	30.78	46.00	15.22	N
3.35312	32.22	46.00	13.78	N
4.54062	30.10	46.00	15.90	N
8.64218	23.94	50.00	26.06	N
25.22421	22.56	50.00	27.44	N

802.11g CH11

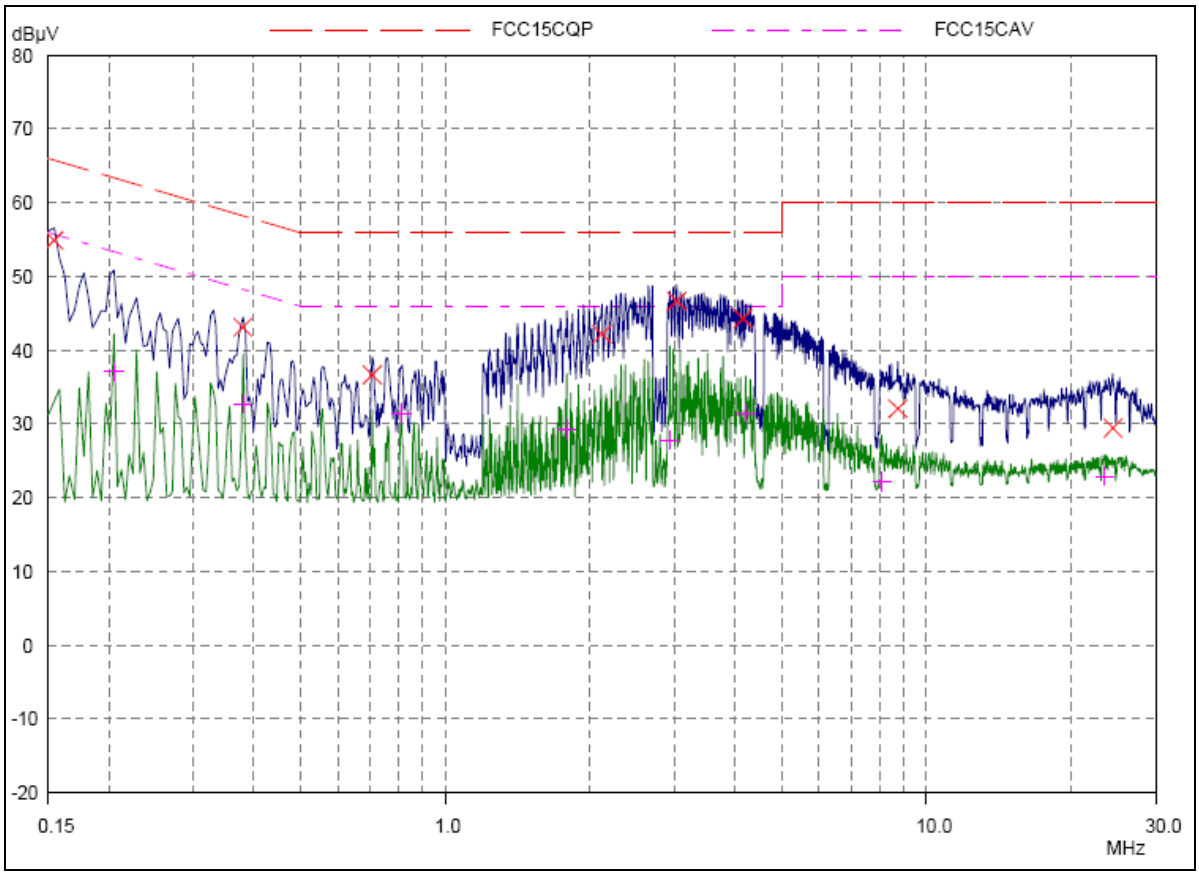


L Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.1539	55.18	65.79	10.61	L1
0.32968	44.67	59.46	14.79	L1
1.06796	35.89	56.00	20.11	L1
2.11093	41.78	56.00	14.22	L1
3.56015	43.29	56.00	12.71	L1
4.33359	33.63	56.00	22.37	L1
8.31795	28.90	60.00	31.10	L1

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.2789	31.89	50.85	18.96	L1
0.32578	37.09	49.56	12.47	L1
0.60703	29.88	46.00	16.12	L1
1.775	27.23	46.00	18.77	L1
3.12656	31.69	46.00	14.31	L1
4.42734	23.37	46.00	22.63	L1



N Line

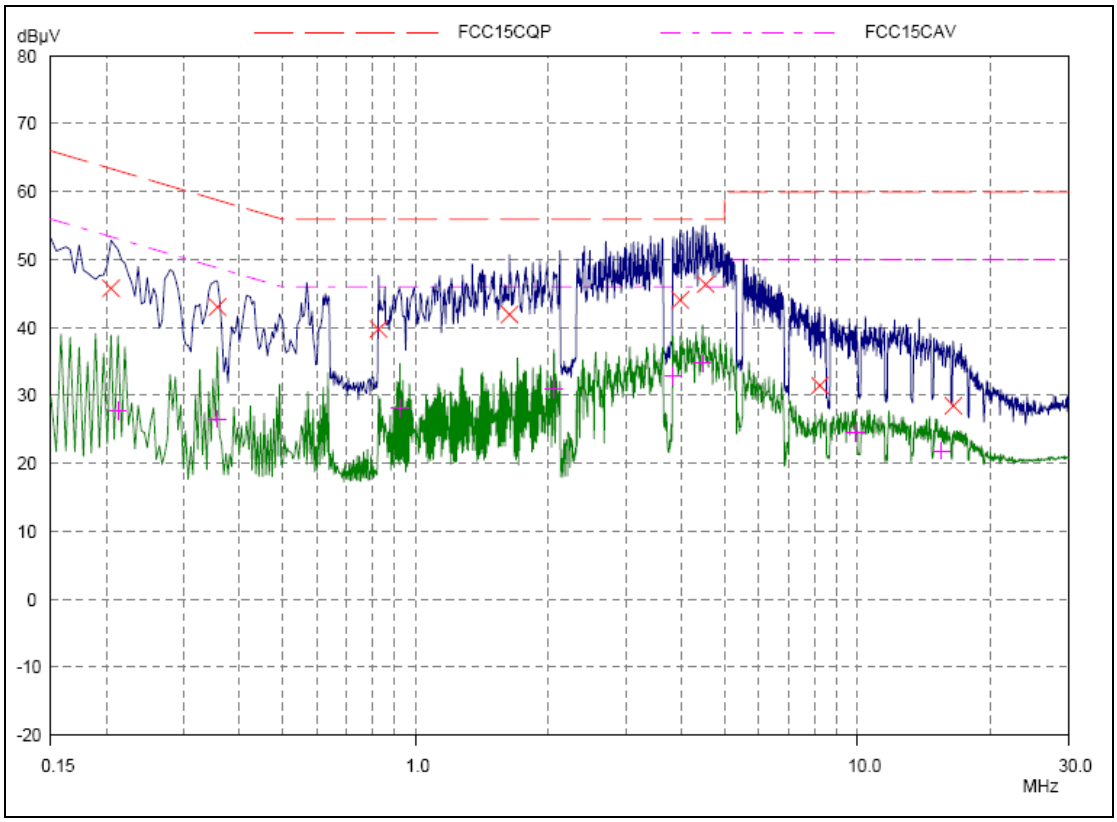
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.1539	54.92	65.79	10.87	N
0.38046	43.13	58.27	15.14	N
0.70468	36.66	56.00	19.34	N
2.11875	42.20	56.00	13.80	N
3.025	46.68	56.00	9.32	N
4.1578	44.30	56.00	11.70	N
8.73984	32.11	60.00	27.89	N
24.38437	29.44	60.00	30.56	N

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.20468	37.07	53.42	16.35	N
0.38046	32.77	48.27	15.50	N
0.81015	31.36	46.00	14.64	N
1.79062	29.27	46.00	16.73	N
2.93125	27.83	46.00	18.17	N
4.2164	31.45	46.00	14.55	N
8.06795	22.18	50.00	27.82	N
23.45859	22.90	50.00	27.10	N

Charger 2

802.11b CH1

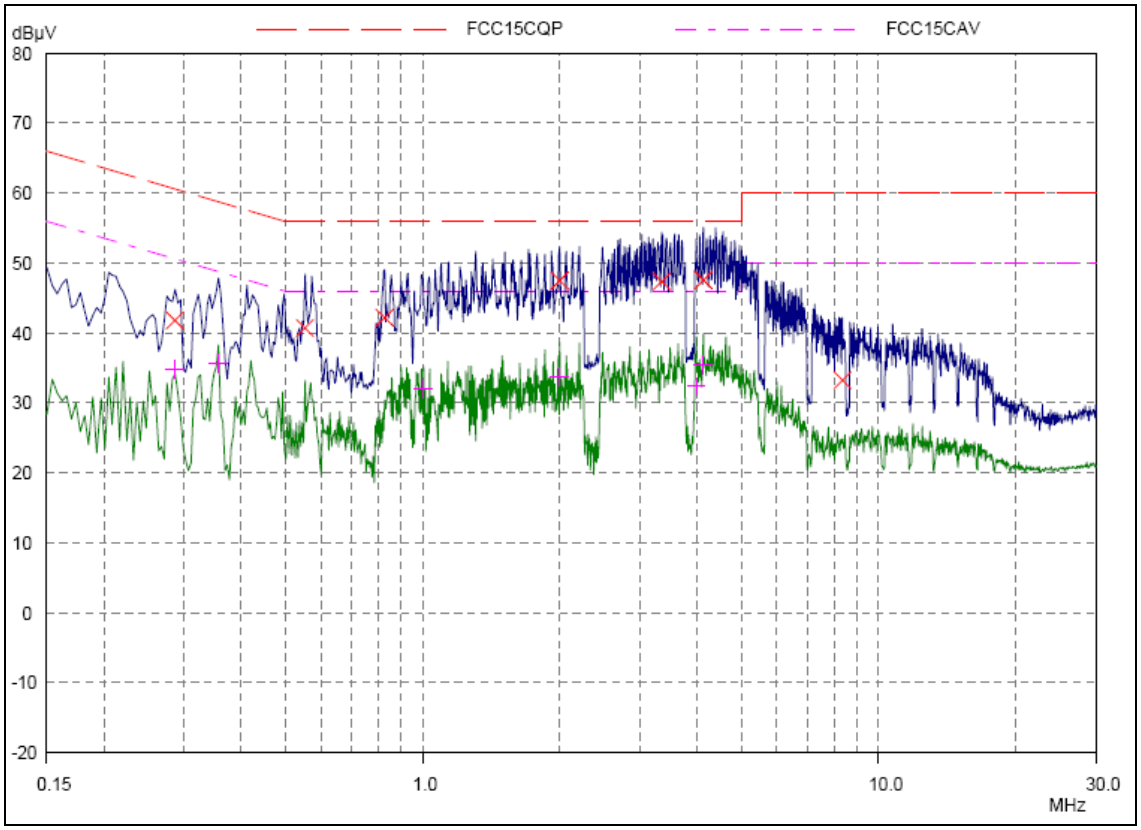


L Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.20468	45.76	63.42	17.66	L1
0.35703	43.03	58.80	15.77	L1
0.82578	39.77	56.00	16.23	L1
1.63046	41.92	56.00	14.08	L1
3.97031	44.03	56.00	11.97	L1
4.53671	46.35	56.00	9.65	L1
8.2242	31.45	60.00	28.55	L1
16.48203	28.44	60.00	31.56	L1

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.2125	27.81	53.11	25.30	L1
0.35703	26.59	48.80	22.21	L1
0.92343	28.21	46.00	17.79	L1
2.06015	30.96	46.00	15.04	L1
3.82578	32.90	46.00	13.10	L1
4.4664	34.67	46.00	11.33	L1
9.87656	24.47	50.00	25.53	L1
15.48203	21.88	50.00	28.12	L1



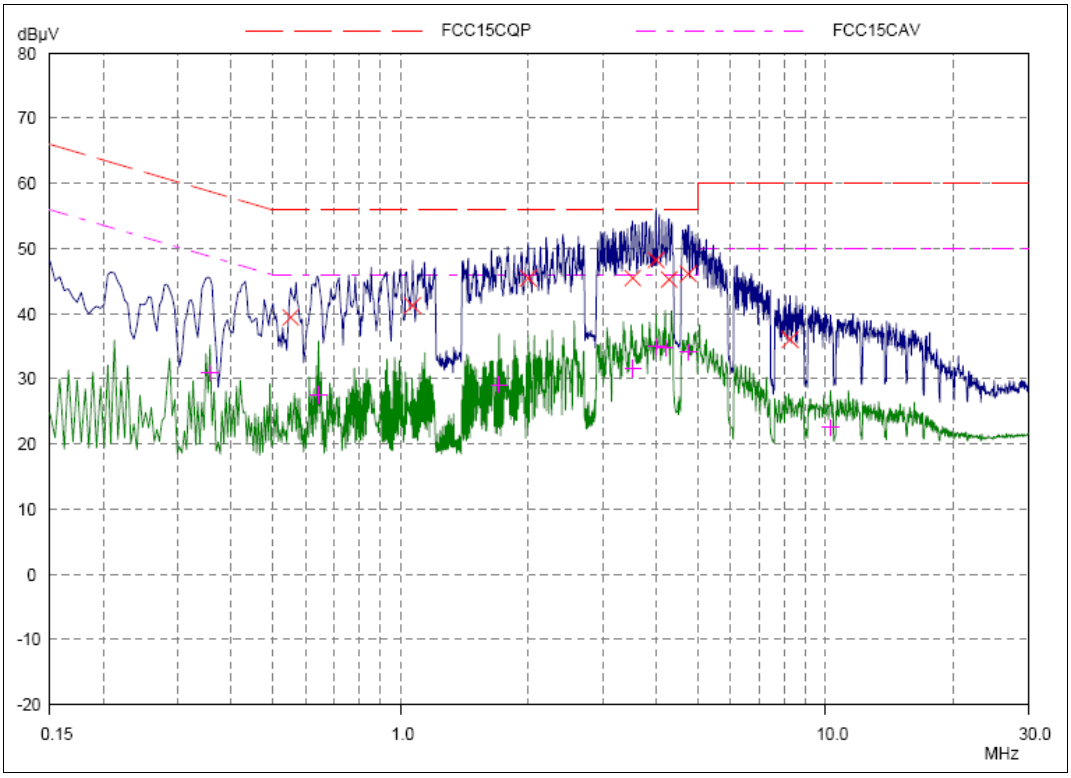
N Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.28671	41.79	60.62	18.83	N
0.55234	40.71	56.00	15.29	N
0.82578	42.17	56.00	13.83	N
1.99765	47.48	56.00	8.52	N
3.34921	47.35	56.00	8.65	N
4.12655	47.56	56.00	8.44	N
8.32578	33.24	60.00	26.76	N

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.28671	34.85	50.62	15.77	N
0.35703	35.68	48.80	13.12	N
1.00546	31.96	46.00	14.04	N
1.99765	33.69	46.00	12.31	N
3.98984	32.33	46.00	13.67	N
4.13436	35.41	46.00	10.59	N

802.11b CH6

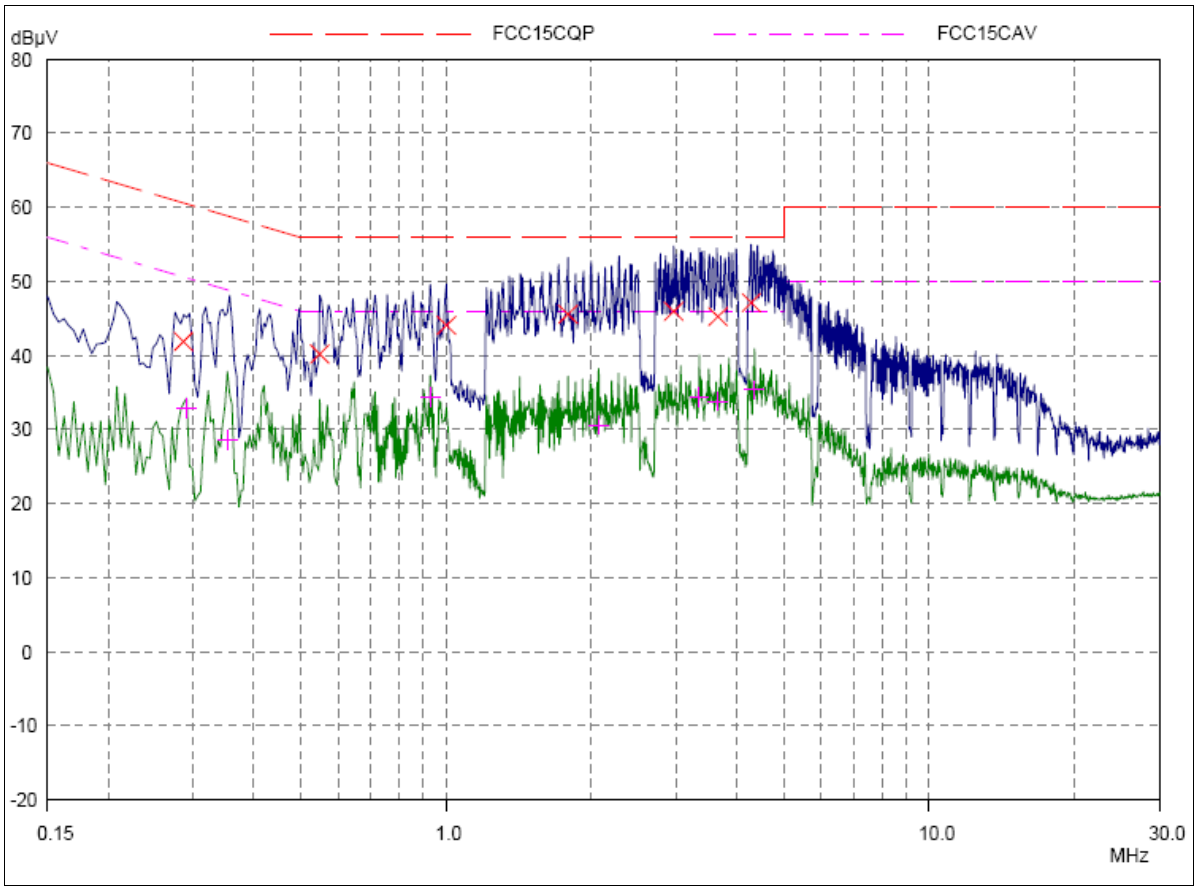


L Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.55234	39.43	56.00	16.57	L1
1.06796	41.27	56.00	14.73	L1
1.99765	45.46	56.00	10.54	L1
3.51328	45.48	56.00	10.52	L1
3.99375	48.24	56.00	7.76	L1
4.28281	45.24	56.00	10.76	L1
4.75156	46.14	56.00	9.86	L1
8.25545	36.05	60.00	23.95	L1

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.35703	30.93	48.80	17.87	L1
0.64218	27.51	46.00	18.49	L1
1.70859	29.09	46.00	16.91	L1
3.51328	31.60	46.00	14.40	L1
3.99375	34.94	46.00	11.06	L1
4.20078	34.74	46.00	11.26	L1
4.75156	34.08	46.00	11.92	L1
10.275	22.54	50.00	27.46	L1



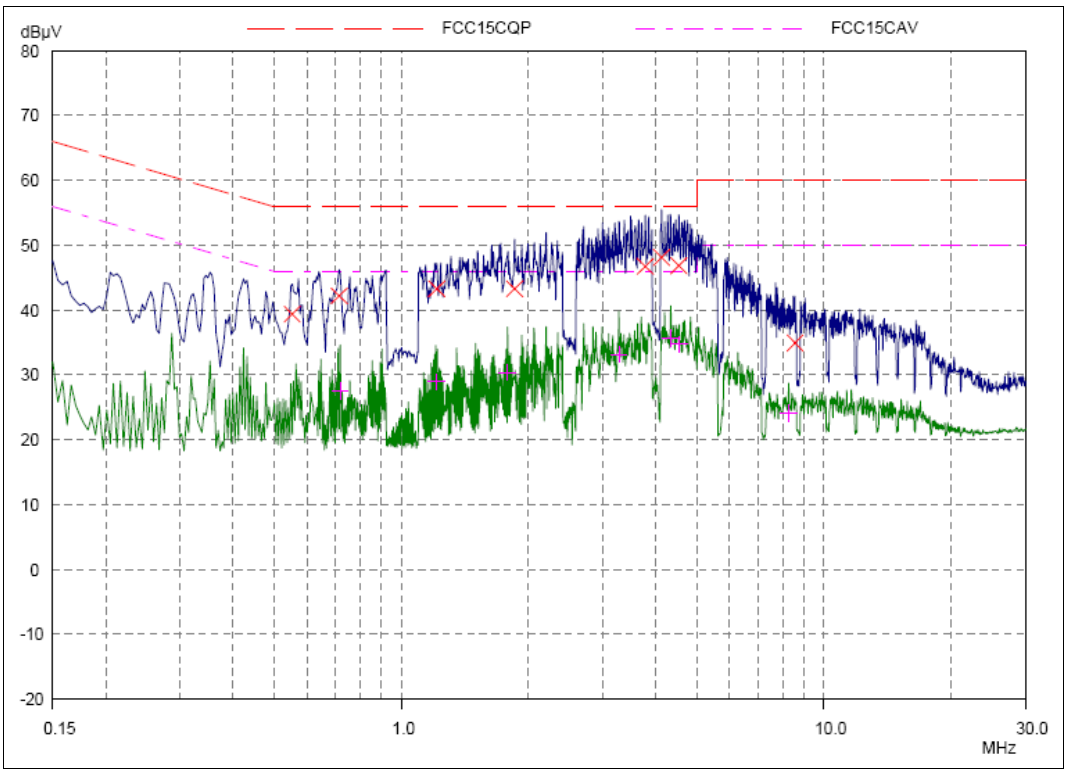
N Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.28671	41.91	60.62	18.71	N
0.54843	40.19	56.00	15.81	N
1.00156	44.09	56.00	11.91	N
1.79062	45.59	56.00	10.41	N
2.95859	45.95	56.00	10.05	N
3.6539	45.28	56.00	10.72	N
4.2789	47.12	56.00	8.88	N

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.29062	32.82	50.51	17.69	N
0.35312	28.68	48.89	20.21	N
0.92734	34.40	46.00	11.60	N
2.07187	30.61	46.00	15.39	N
3.34921	34.36	46.00	11.64	N
3.6539	33.84	46.00	12.16	N
4.34921	35.40	46.00	10.60	N

802.11b CH11

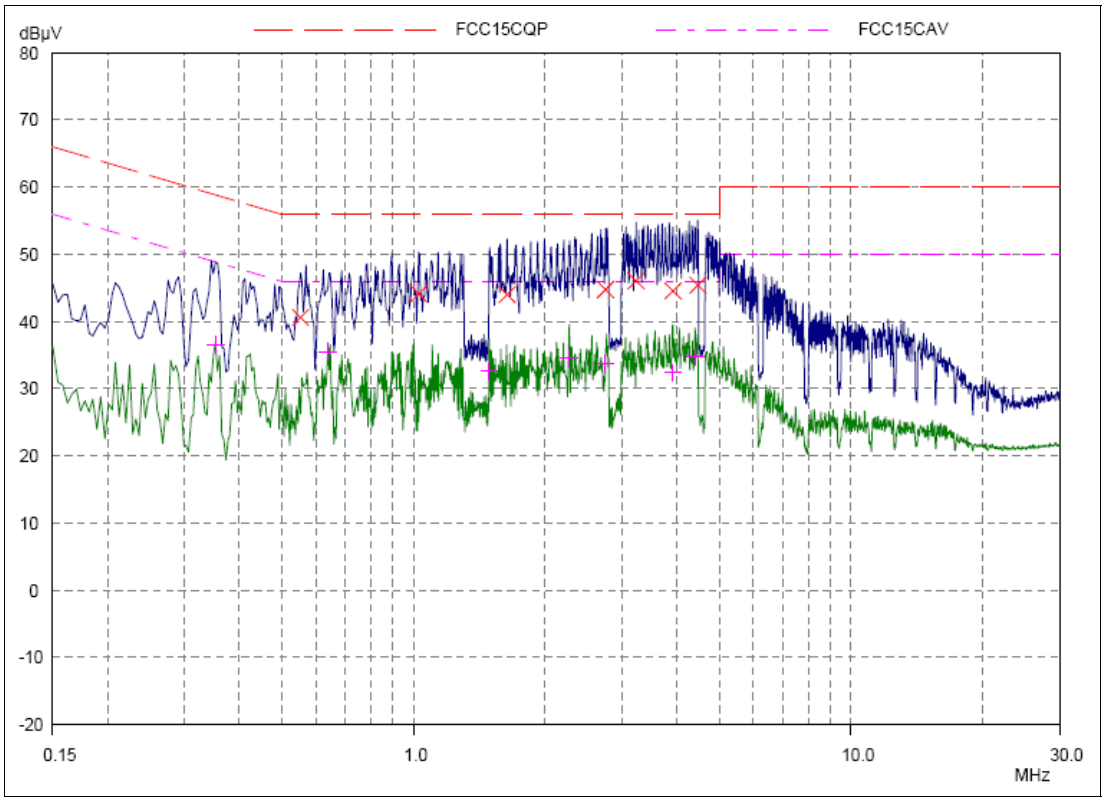


L Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.55234	39.39	56.00	16.61	L1
0.7125	42.22	56.00	13.78	L1
1.2125	43.28	56.00	12.72	L1
1.85703	43.32	56.00	12.68	L1
3.78281	46.76	56.00	9.24	L1
4.12655	48.12	56.00	7.88	L1
4.53671	46.87	56.00	9.13	L1
8.53671	34.94	60.00	25.06	L1

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.7164	27.48	46.00	18.52	L1
1.2125	28.95	46.00	17.05	L1
1.78281	30.41	46.00	15.59	L1
3.275	33.17	46.00	12.83	L1
4.3414	35.66	46.00	10.34	L1
4.53671	34.74	46.00	11.26	L1
8.26328	24.10	50.00	25.90	L1



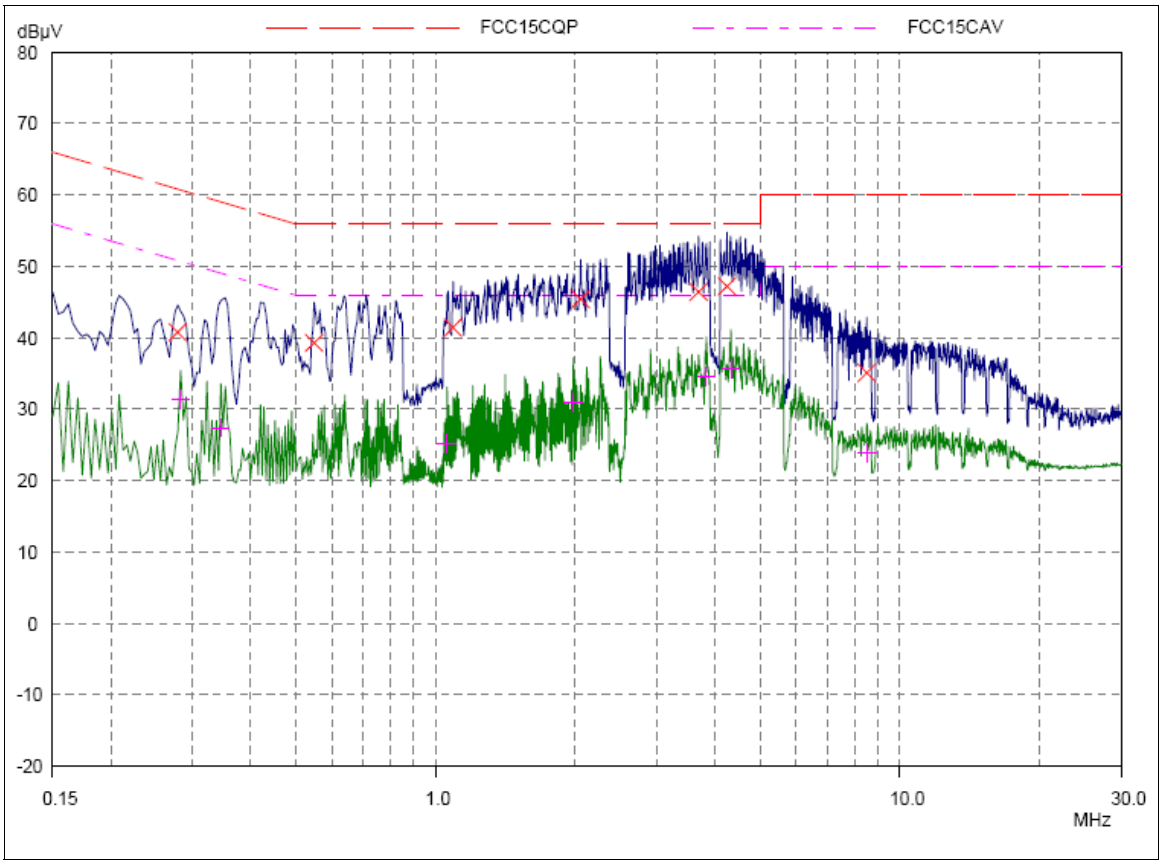
N Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.55234	40.61	56.00	15.39	N
1.02889	44.12	56.00	11.88	N
1.63828	44.00	56.00	12.00	N
2.75156	44.75	56.00	11.25	N
3.22812	46.03	56.00	9.97	N
3.92343	44.55	56.00	11.45	N
4.4664	45.42	56.00	10.58	N

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.35312	36.52	48.89	12.37	N
0.63828	35.51	46.00	10.49	N
1.48984	32.57	46.00	13.43	N
2.27109	34.59	46.00	11.41	N
2.75156	33.69	46.00	12.31	N
3.92343	32.32	46.00	13.68	N
4.4039	34.71	46.00	11.29	N

802.11g CH1

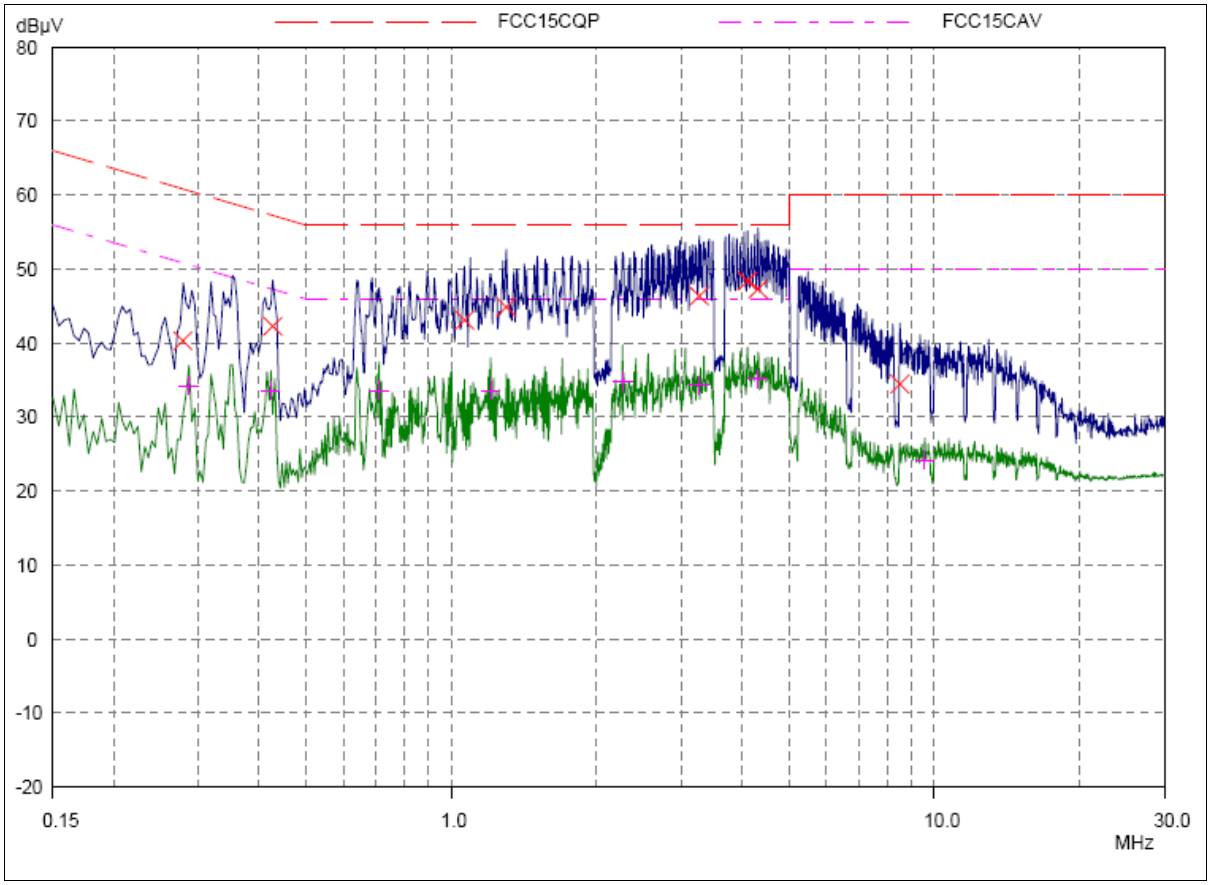


L Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.2789	40.76	60.85	20.09	L1
0.54843	39.29	56.00	16.71	L1
1.0914	41.45	56.00	14.55	L1
2.05625	45.43	56.00	10.57	L1
3.68515	46.45	56.00	9.55	L1
4.24375	47.22	56.00	8.78	L1
8.50156	35.09	60.00	24.91	L1

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.28281	31.35	50.73	19.38	L1
0.34531	27.37	49.07	21.70	L1
1.06015	25.15	46.00	20.85	L1
1.98203	30.95	46.00	15.05	L1
3.82968	34.62	46.00	11.38	L1
4.32578	35.66	46.00	10.34	L1
8.49765	23.92	50.00	26.08	L1



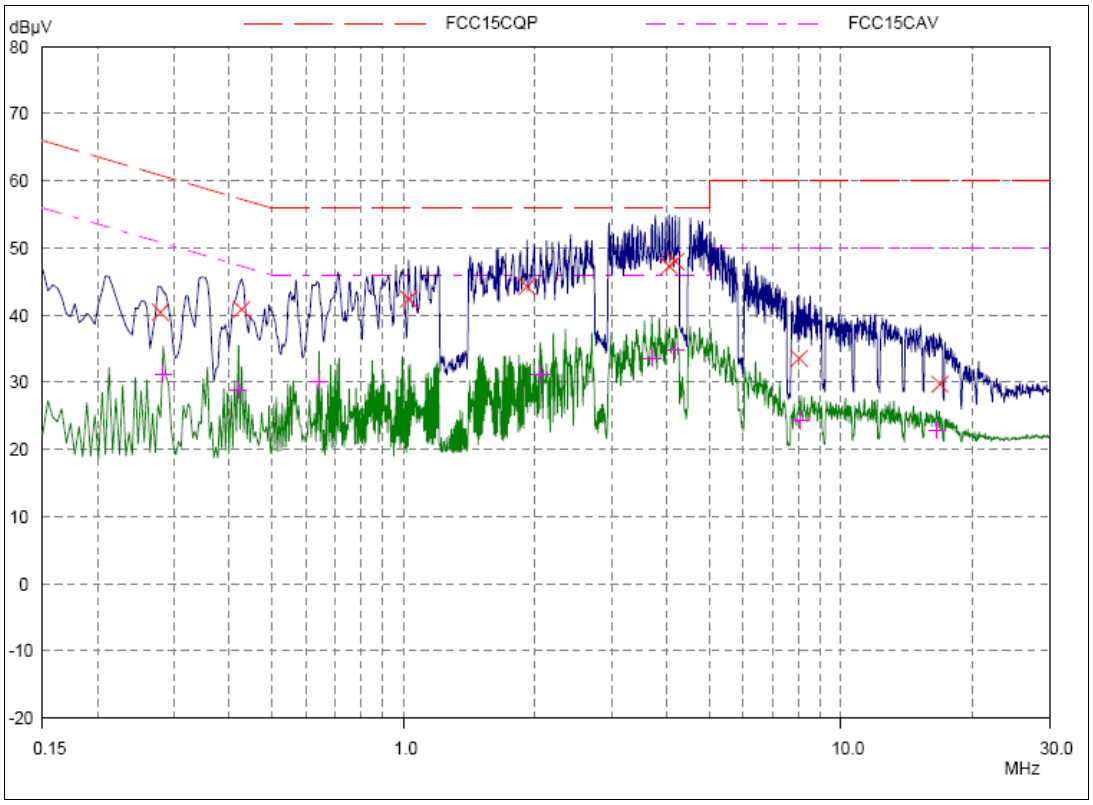
N Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.2789	40.32	60.85	20.53	N
0.42734	42.28	57.30	15.02	N
1.06406	43.11	56.00	12.89	N
1.30234	44.84	56.00	11.16	N
3.26328	46.34	56.00	9.66	N
4.10703	48.38	56.00	7.62	N
4.31796	47.31	56.00	8.69	N
8.50156	34.47	60.00	25.53	N

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.28671	34.25	50.62	16.37	N
0.42343	33.64	47.38	13.74	N
0.70859	33.62	46.00	12.38	N
1.20859	33.55	46.00	12.45	N
2.26718	34.82	46.00	11.18	N
3.26328	34.28	46.00	11.72	N
4.31406	35.16	46.00	10.84	N
9.56796	24.20	50.00	25.80	N

802.11g CH6

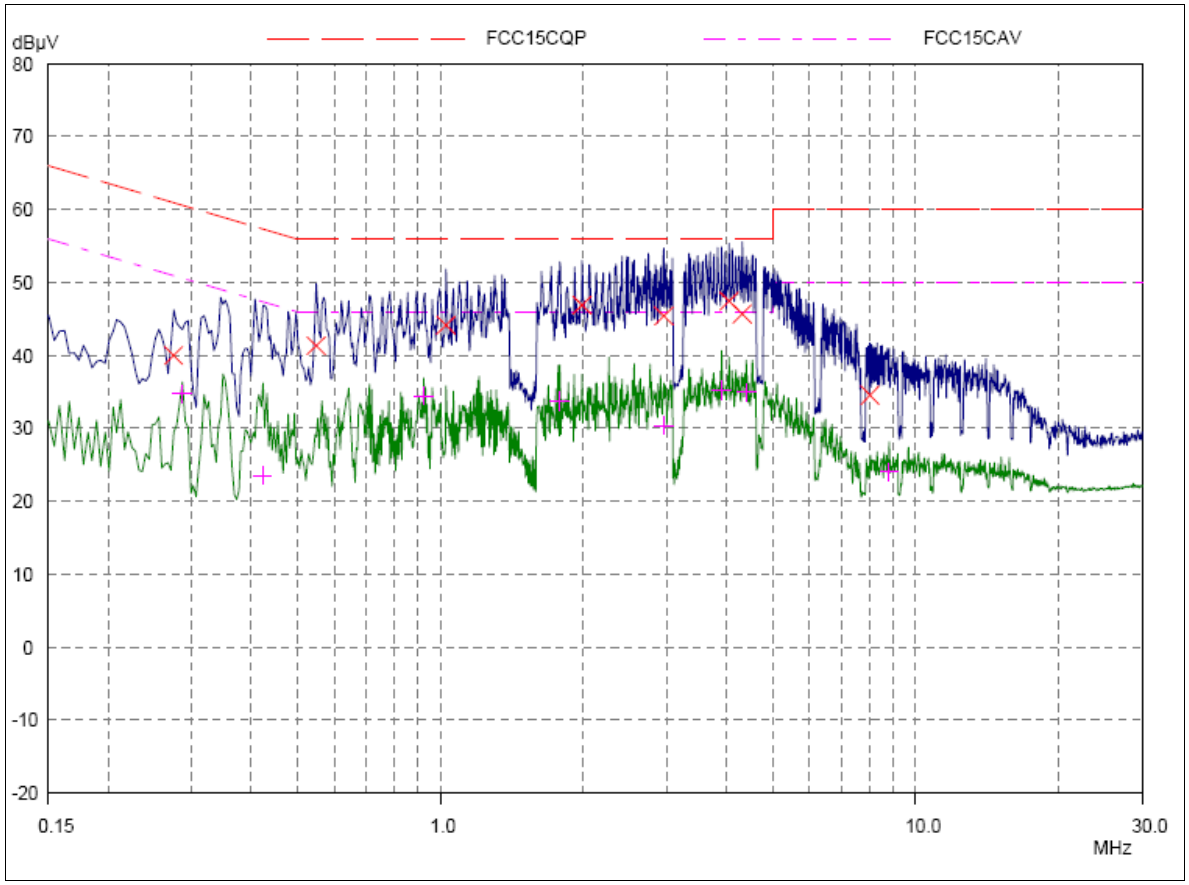


L Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.2789	40.42	60.85	20.43	L1
0.42734	40.86	57.30	16.44	L1
1.02889	42.38	56.00	13.62	L1
1.91953	44.21	56.00	11.79	L1
4.05234	47.29	56.00	8.71	L1
4.18515	48.03	56.00	7.97	L1
8.03281	33.54	60.00	26.46	L1
16.85703	29.73	60.00	30.27	L1

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.28281	31.19	50.73	19.54	L1
0.41953	28.88	47.46	18.58	L1
0.64218	29.98	46.00	16.02	L1
2.05625	31.18	46.00	14.82	L1
3.69687	33.65	46.00	12.35	L1
4.19296	34.68	46.00	11.32	L1
8.0992	24.35	50.00	25.65	L1
16.55624	22.87	50.00	27.13	L1



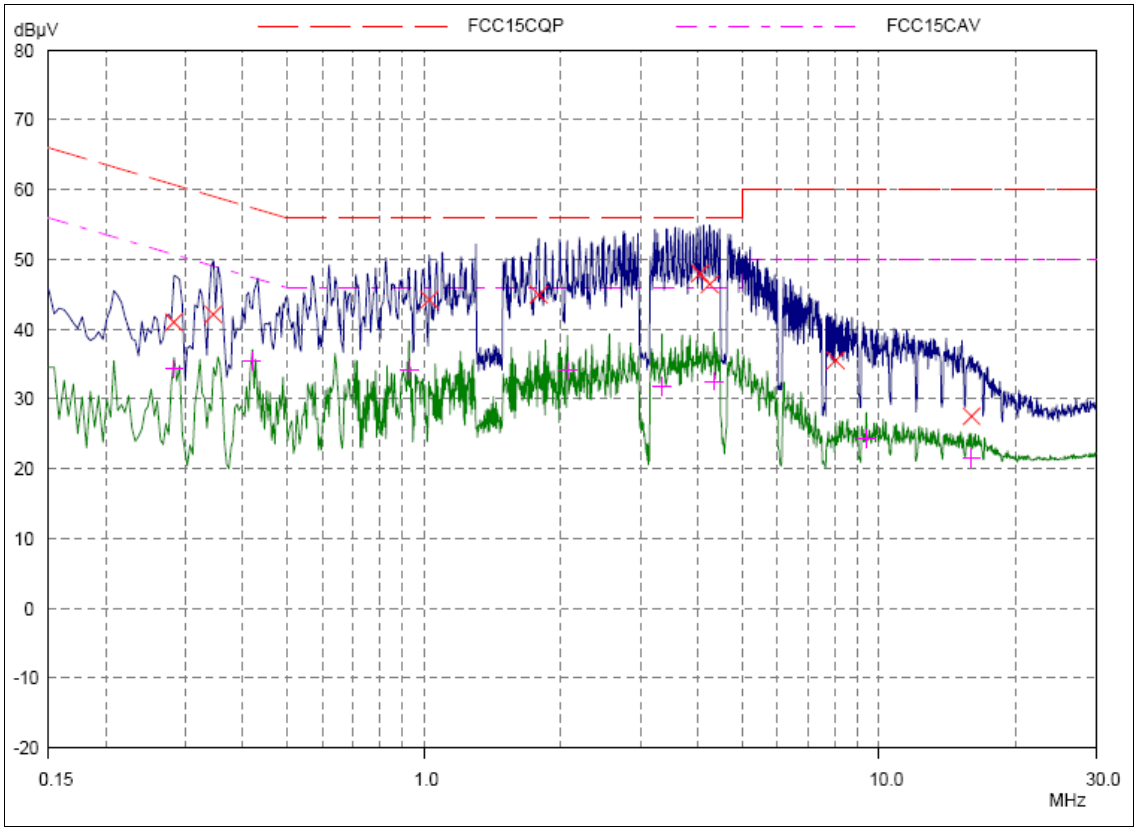
N Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.275	39.99	60.97	20.98	N
0.54843	41.35	56.00	14.65	N
1.02889	44.18	56.00	11.82	N
1.98984	46.88	56.00	9.12	N
2.95078	45.44	56.00	10.56	N
4.04842	47.43	56.00	8.57	N
4.31796	45.69	56.00	10.31	N
8.01328	34.55	60.00	25.45	N

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.28671	34.69	50.62	15.93	N
0.42343	23.59	47.38	23.79	N
0.92343	34.46	46.00	11.54	N
1.78281	33.77	46.00	12.23	N
2.95078	30.42	46.00	15.58	N
3.9039	35.26	46.00	10.74	N
4.4	35.00	46.00	11.00	N
8.80234	24.02	50.00	25.98	N

802.11g CH11

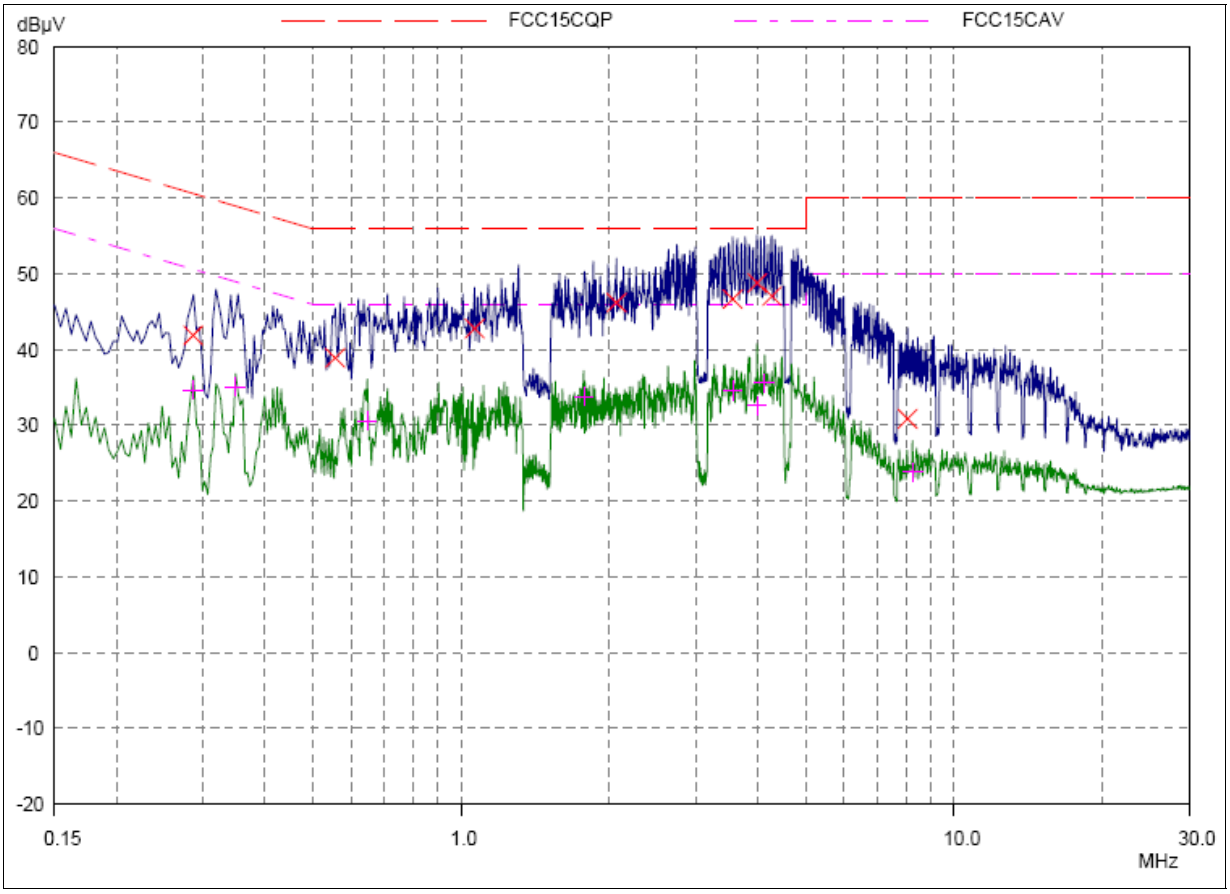


L Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.28281	41.02	60.73	19.71	L1
0.34531	42.14	59.07	16.93	L1
1.02889	44.22	56.00	11.78	L1
1.78671	44.92	56.00	11.08	L1
4.04453	47.97	56.00	8.03	L1
4.25156	46.42	56.00	9.58	L1
8.0289	35.54	60.00	24.46	L1
15.97421	27.52	60.00	32.48	L1

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.28281	34.29	50.73	16.44	L1
0.41953	35.42	47.46	12.04	L1
0.92734	34.23	46.00	11.77	L1
2.06406	34.07	46.00	11.93	L1
3.3414	31.82	46.00	14.18	L1
4.3414	32.53	46.00	13.47	L1
9.37656	24.33	50.00	25.67	L1
15.95859	21.59	50.00	28.41	L1



N Line

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -
0.28671	41.91	60.62	18.71	N
0.55625	38.89	56.00	17.11	N
1.06406	42.79	56.00	13.21	N
2.06406	46.19	56.00	9.81	N
3.55625	46.69	56.00	9.31	N
3.98203	48.78	56.00	7.22	N
4.26718	47.04	56.00	8.96	N
8.04453	30.86	60.00	29.14	N

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -
0.28671	34.64	50.62	15.98	N
0.34921	35.12	48.98	13.86	N
0.64609	30.58	46.00	15.42	N
1.775	33.84	46.00	12.16	N
3.55625	34.58	46.00	11.42	N
3.98203	32.63	46.00	13.37	N
4.12655	35.63	46.00	10.37	N
8.23983	23.88	50.00	26.12	N

3. Main Test Instruments

No.	Name	Type	Manufacturer	Serial Number	Calibration Date	Valid Period
01	Base Station Simulator	CMU200	R&S	118133	2011-05-26	One year
02	Signal Analyzer	FSV30	R&S	100815	2011-06-27	One year
03	EMI Test Receiver	ESCI	R&S	100948	2011-06-30	One year
04	TRILOG Broadband Antenna	VULB 9163	Schwarzbeck	9163-201	2010-06-20	Three years
05	Double Ridged Waveguide Horn Antenna	HF907	R&S	100126	2009-07-02	Three years
06	EMI Test Receiver	ESCS30	R&S	100138	2012-01-16	One year
07	LISN	ENV216	R&S	101171	2010-04-16	Three years

*******END OF REPORT BODY*******

ANNEX A: EUT Appearance and Test Setup

A.1 EUT Appearance

a: EUT

b:Battery

c-1:Charger 1

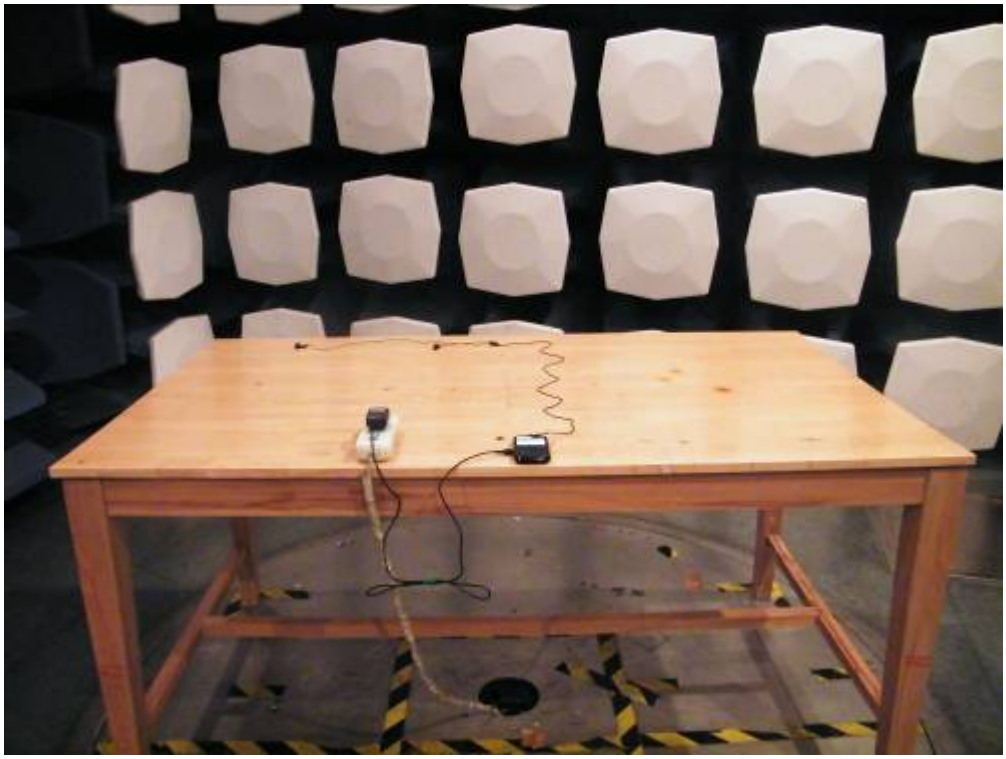
c-2:Charger 2

c:Charger

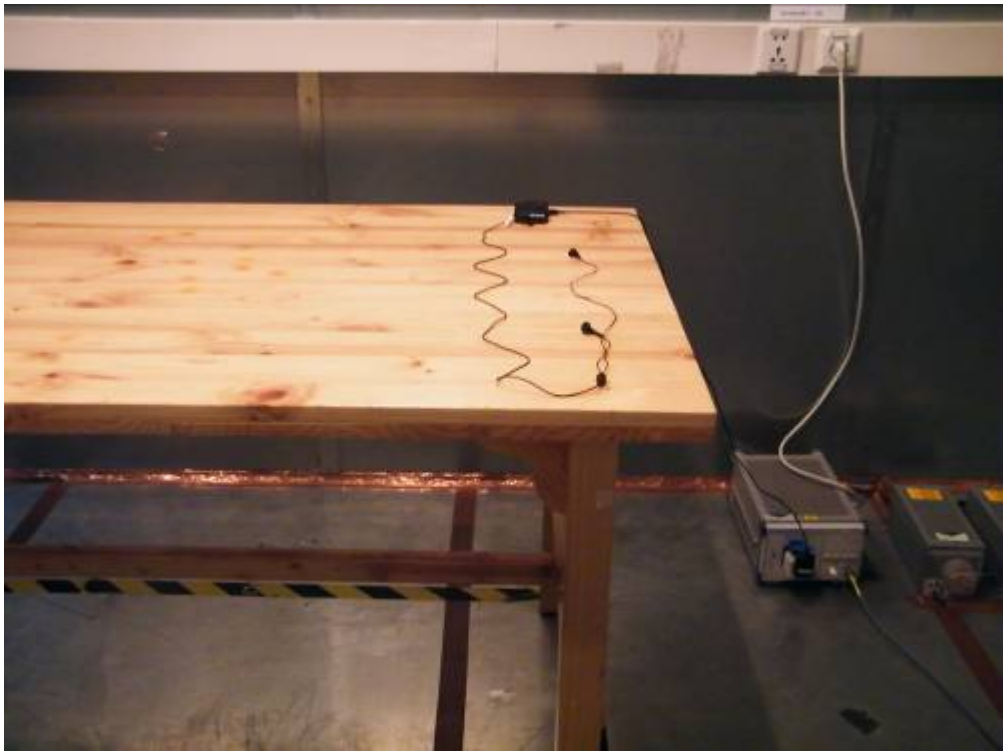
d: Headset

Picture 1 Constituents of EUT

A.2 Test Setup



Picture 2 Radiated Emission Test Setup



Picture 3 Conducted Emission Test Setup