



RF TEST REPORT

Applicant	ZTE Corporation
FCC ID	SRQ-ZTEN9519
Product	LTE/CDMA/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile Phone
Model	N9519
Report No.	RXA1601-0005RF05R2
Issue Date	March 29, 2016

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2014)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Changxu Wan

Performed by: Changxu Wan

Lingling Kang

Reviewed by: Lingling Kang

Kai Xu

Approved by: Kai Xu



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TABLE OF CONTENT

- 1. Test Laboratory 4
 - 1.1. Notes of the test report..... 4
 - 1.2. Test facility 4
 - 1.3. Testing Location..... 5
- 2. General Description of Equipment under Test..... 6
- 3. Applied Standards 7
- 4. Test Configuration 8
- 5. Test Case Results 9
 - 5.1. Peak Power Output –Conducted 9
 - 5.2. 6dB Bandwidth 11
 - 5.3. Band Edge 15
 - 5.4. Power Spectral Density 17
 - 5.5. Spurious RF Conducted Emissions..... 21
 - 5.6. Radiated Emissions in the Restricted Band 27
 - 5.7. Radiates Emission 32
 - 5.8. Conducted Emission 83
- 6. Main Test Instruments 92



Summary of measurement results

Number	Summary of measurements of results	Clause in FCC rules	Verdict
1	Maximum peak conducted output power	15.247(b)(3)	PASS
2	6 dB bandwidth	15.247(a)(2)	PASS
3	Maximum power spectral density	15.247(e)	PASS
4	Band Edge	15.247(d)	PASS
5	Spurious RF Conducted Emissions	15.247(d)	PASS
6	Radiated Emissions in restricted frequency bands	15.247(d),15.205,15.209	PASS
7	Radiated Emissions	15.247(d),15.205,15.209	PASS
8	Conducted Emissions	15.207	PASS
Date of Testing: January 4, 2016~ February 4, 2016			



1. Test Laboratory

1.1. Notes of the test report

This report shall not be reproduced in full or partial, without the written approval of TA technology (shanghai) co., Ltd).The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above. This report must not be used by the client to claim product certification, approval, or endorsement by CNAS or any government agencies.

1.2. Test facility

CNAS (accreditation number:L2264)

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

FCC (recognition number is 428261)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

IC (recognition number is 8510A)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement.

VCCI (recognition number is C-4595, T-2154, R-4113, G-766)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Japan to perform electromagnetic emission measurement.

A2LA(Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.



1.3. Testing Location

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: Xu Kai
Telephone: +86-021-50791141/2/3
Fax: +86-021-50791141/2/3-8000
Website: <http://www.ta-shanghai.com>
E-mail: xukai@ta-shanghai.com

2. General Description of Equipment under Test

Client Information

Applicant	ZTE Corporation
Applicant address	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park, Nanshan District Shenzhen, Guangdong, P.R.China
Manufacturer	ZTE Corporation
Manufacturer address	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park, Nanshan District Shenzhen, Guangdong, P.R.China

General information

Model:	N9519
MEID:	99000677000310
Hardware Version:	cuhA
Software Version:	N9519V1.0.0B01
Power Supply:	Battery/AC adapter
Antenna Type:	Internal Antenna
Test Mode:	Bluetooth(Low Energy) 802.11b 802.11g, 802.11n(HT20);
Modulation Type:	BLE :GFSK 802.11b: DSSS; 802.11g/n(HT20): OFDM
Max. Conducted Power	Wi-Fi 2.4G :16.14dBm BLE : 8.452 dBm
Operating Frequency Range(s)	2400 ~ 2483.5 MHz
EUT Accessory	
Battery	Manufacturer: SCUD(FUJIAN)ELECTRONICS Model: Li3831T43P4h826247 Power Rating: DC 3.8V, Li-ion
Adapter	Manufacturer: Salcomp Model: STC-A515A-Z
<p>Note: The information of the EUT is declared by the manufacturer. Please refer to the specifications or user manual for details.</p>	



3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC CFR47 Part 15C (2014) Radio Frequency Devices

ANSI C63.10 (2013)

KDB 558074 D01 DTS Meas Guidance v03r04

4. Test Configuration

Test Mode

The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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.

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate. Preliminary tests have been done on all the configuration for confirming worst case. Data rate below means worst-case rate of each test item.

Worst-case data rates are shown as following table.

Band	Data Rate
Bluetooth(Low Energy)	1Mbps
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

5. Test Case Results

5.1. Peak Power Output –Conducted

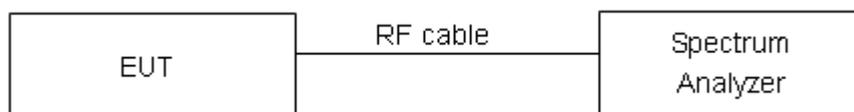
Ambient condition

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

Methods of Measurement

During the process of the testing, The EUT was connected to the spectrum analyzer with a known loss. The EUT is max power transmission with proper modulation. The peak detector is used. We use Maximum Peak Conducted Output Power Level Method in KDB 558074 D01 for this test.

Test Setup



Limits

Rule Part 15.247 (b) (3) specifies that " For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz: 1 Watt."

Peak Output Power	$\leq 1W$ (30dBm)
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.44$ dB.

**Test Results**

Network Standards	Carrier frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Conclusion
802.11b	2412	15.75	30	PASS
	2437	15.94	30	PASS
	2462	16.14	30	PASS
802.11g	2412	12.79	30	PASS
	2437	12.98	30	PASS
	2462	13.02	30	PASS
802.11n HT20	2412	10.77	30	PASS
	2437	10.95	30	PASS
	2462	10.98	30	PASS
Bluetooth (Low Energy)	2402	6.364	30	PASS
	2440	8.452	30	PASS
	2480	7.533	30	PASS

5.2. 6dB Bandwidth

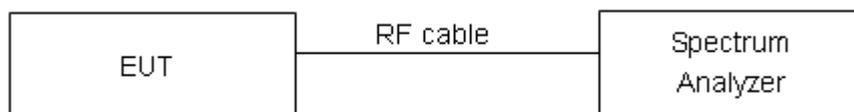
Ambient condition

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

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable. RBW is set to 100 kHz; VBW is set to 300 kHz on spectrum analyzer.

Test Setup



Limits

Rule Part 15.247 (a) (2) specifies that “Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.”

minimum 6 dB bandwidth	≥ 500 kHz
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Measurement Uncertainty

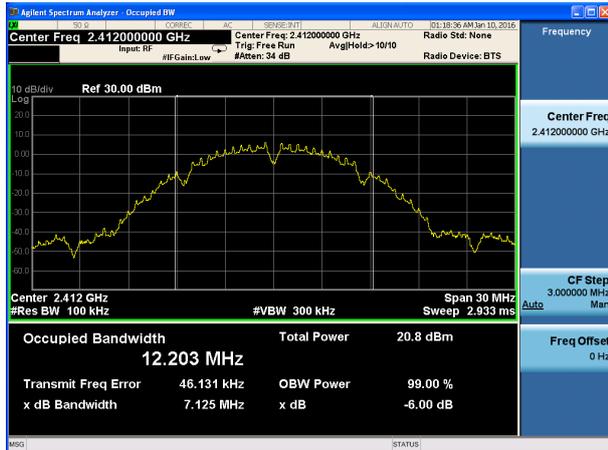
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

**Test Results:**

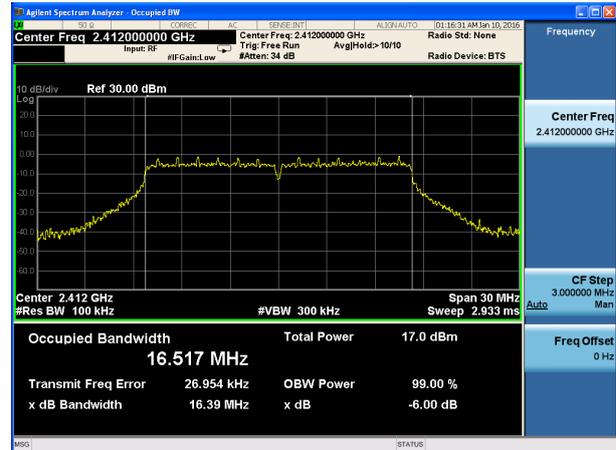
Network Standards	Carrier frequency (MHz)	Minimum 6 dB bandwidth (MHz)	Limit(kHz)	Conclusion
802.11b	2412	12.203	500	PASS
	2437	12.075	500	PASS
	2462	12.077	500	PASS
802.11g	2412	16.517	500	PASS
	2437	16.514	500	PASS
	2462	16.526	500	PASS
802.11n HT20	2412	17.675	500	PASS
	2437	17.659	500	PASS
	2462	17.688	500	PASS
Bluetooth (Low Energy)	2402	1.0754	500	PASS
	2440	1.0757	500	PASS
	2480	1.0745	500	PASS



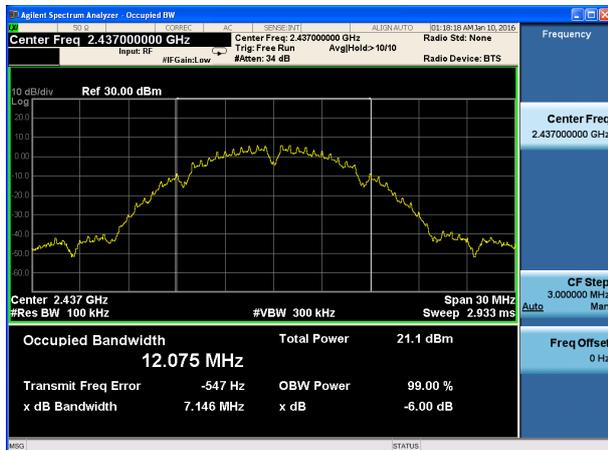
802.11b, Carrier frequency (MHz): 2412



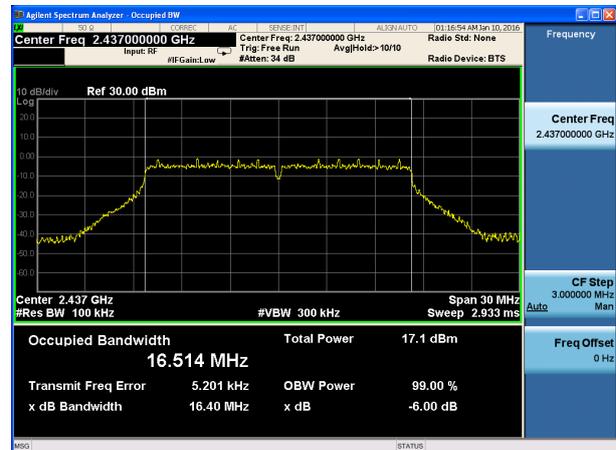
802.11g, Carrier frequency (MHz): 2412



802.11b, Carrier frequency (MHz): 2437



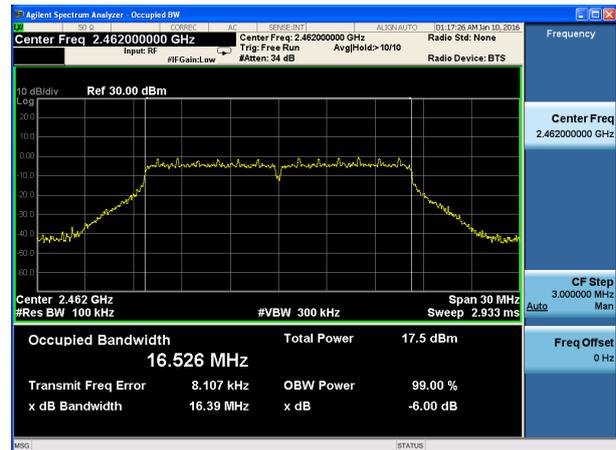
802.11g, Carrier frequency (MHz): 2437



802.11b, Carrier frequency (MHz): 2462

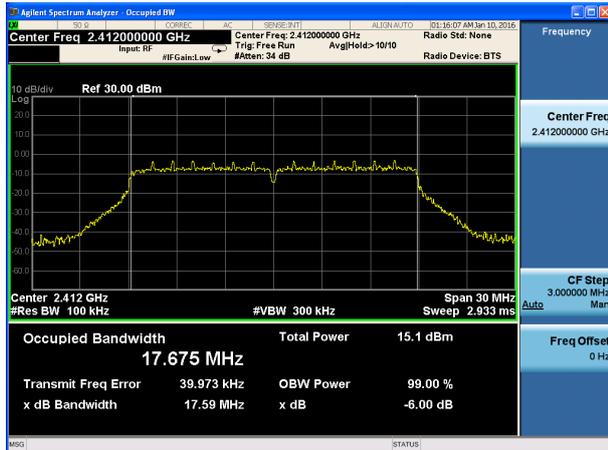


802.11g, Carrier frequency (MHz): 2462





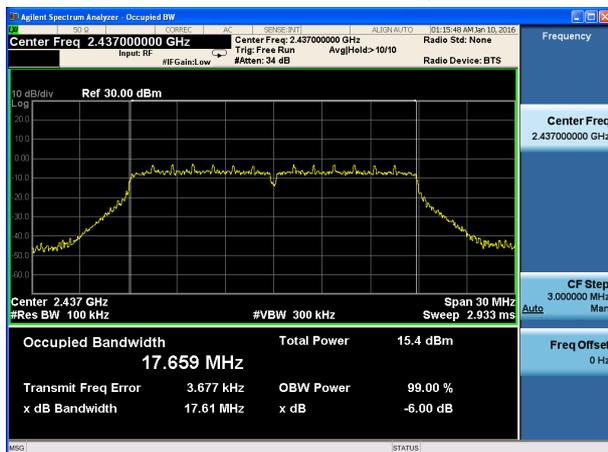
802.11n(HT20), Carrier frequency (MHz): 2412



BLE Carrier frequency (MHz): 2402



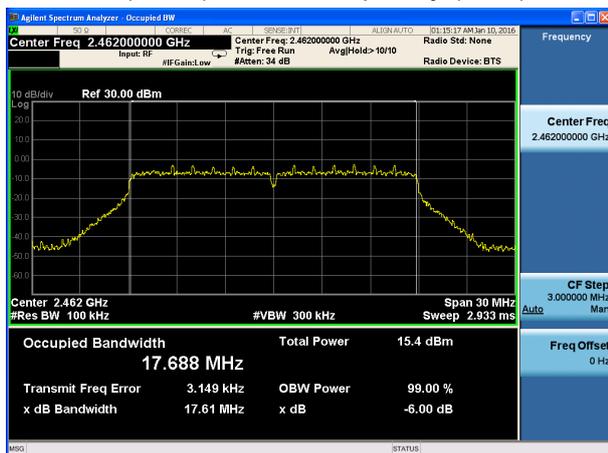
802.11n(HT20), Carrier frequency (MHz): 2437



BLE Carrier frequency (MHz): 2440



802.11n(HT20), Carrier frequency (MHz):2462



BLE Carrier frequency (MHz): 2480



5.3. Band Edge

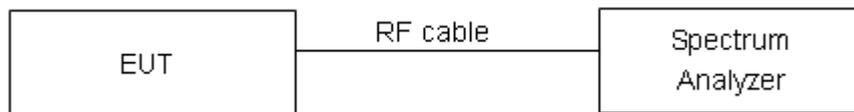
Ambient condition

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

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable the band edge of the lowest and highest channels were measured. The peak detector is used and RBW is set to 100 kHz and VBW is set to 300 kHz on spectrum analyzer. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

Rule Part 15.247(d) specifies that “In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.”

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
2GHz-3GHz	1.407 dB



Test Results: PASS



5.4. Power Spectral Density

Ambient condition

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

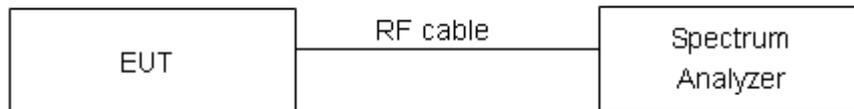
Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

RBW is set to 3 kHz and VBW is set to 10 kHz for BLE/ Wi-Fi 2.4G on spectrum analyzer.

Set the span to 1.5 times the DTS channel bandwidth. Sweep time = auto couple. Trace mode = max hold. The peak power spectral density is recorded.

Test setup



Limits

Rule Part 15.247(e) specifies that” For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. ”

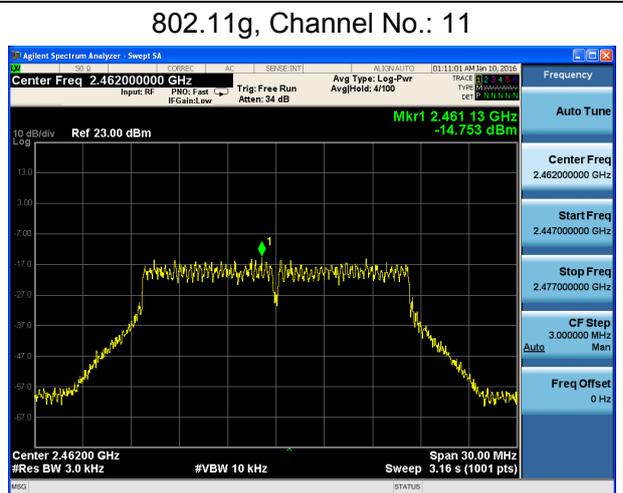
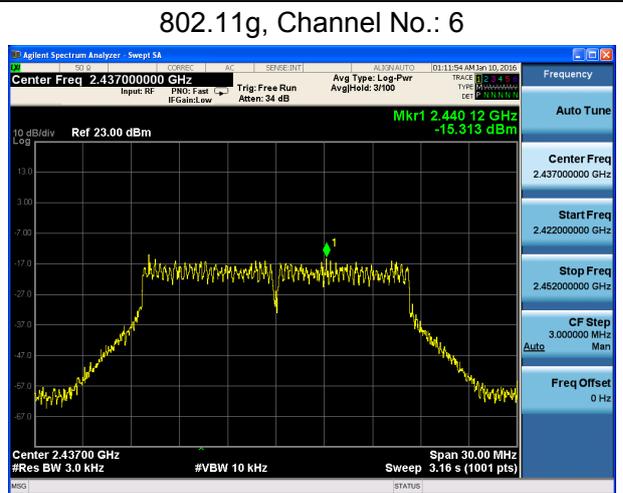
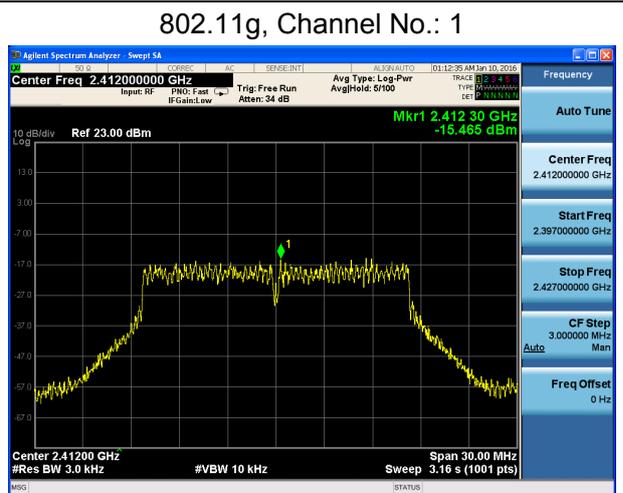
Limits	≤ 8 dBm / 3kHz
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.75\text{dB}$.

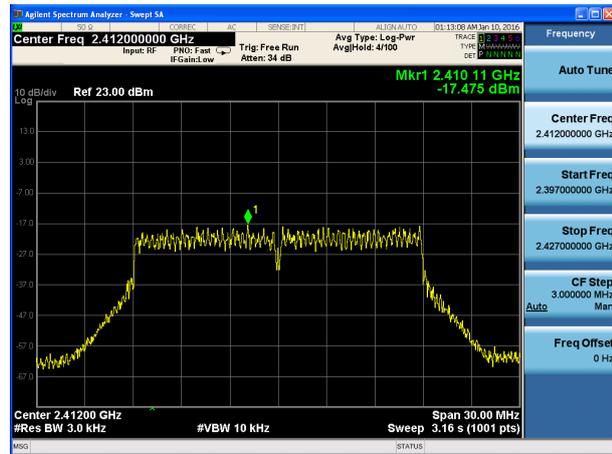
**Test Results:**

Network Standards	Channel Number	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
802.11b	1	-9.574	8	PASS
	6	-8.066	8	PASS
	11	-8.791	8	PASS
802.11g	1	-15.465	8	PASS
	6	-15.313	8	PASS
	11	-14.753	8	PASS
802.11n HT20	1	-17.475	8	PASS
	6	-18.111	8	PASS
	11	-16.735	8	PASS
Bluetooth (Low Energy)	0	-9.865	8	PASS
	19	-7.612	8	PASS
	39	-9.644	8	PASS





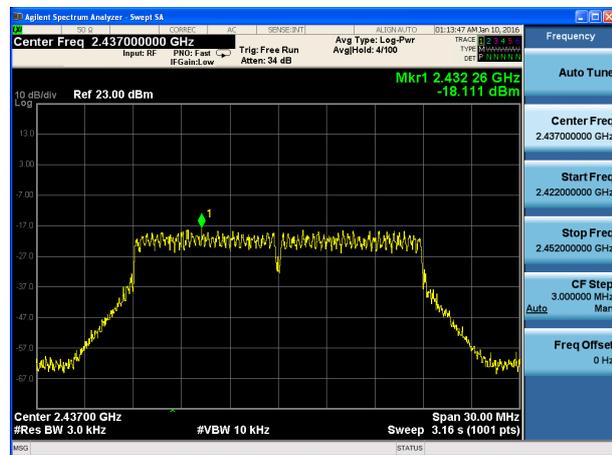
802.11n(HT20), Channel No. 1



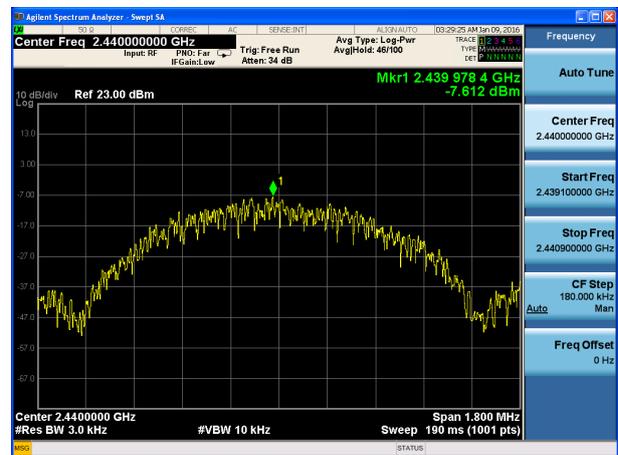
BLE, Channel No.: 0



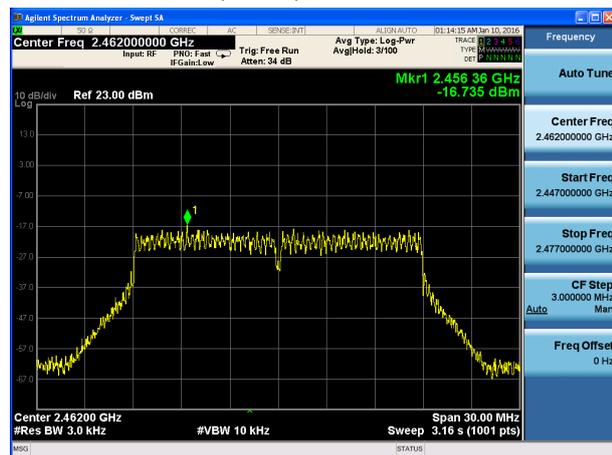
802.11n(HT20), Channel No. 6



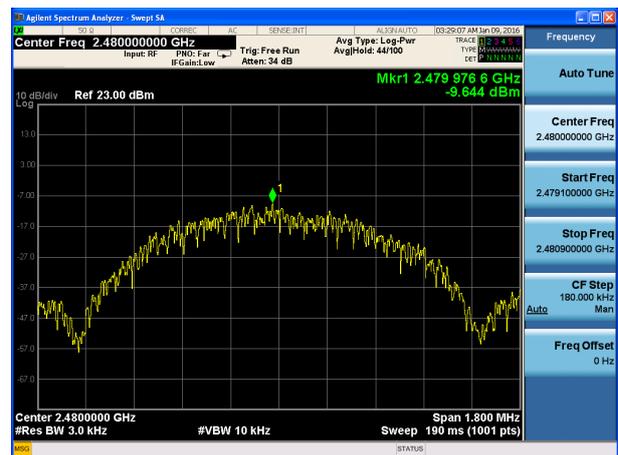
BLE, Channel No.: 19



802.11n(HT20), Channel No. 11



BLE, Channel No.: 39



5.5. Spurious RF Conducted Emissions

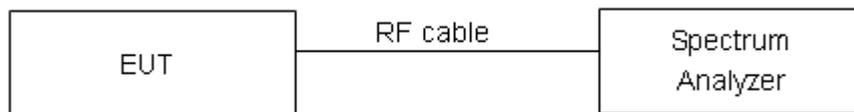
Ambient condition

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

Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. RBW and VBW are set to 100 kHz, Sweep is set to ATUO.

The test is in transmitting mode.



Limits

Rule Part 15.247(d) pacifies that “In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.”

Network Standards	Carrier frequency (MHz)	Reference value (dBm)	Limit
802.11b	2412	15.268	-4.732
	2437	8.666	-11.334
	2462	13.068	-6.932
802.11g	2412	10.601	-9.399
	2437	8.614	-11.386
	2462	10.058	-9.942
802.11n HT20	2412	10.387	-9.613
	2437	8.956	-11.044
	2462	10.727	-9.273
Bluetooth (Low Energy)	2402	8.314	-11.686
	2440	2.802	-17.198
	2480	2.38	-17.62

**Measurement Uncertainty**

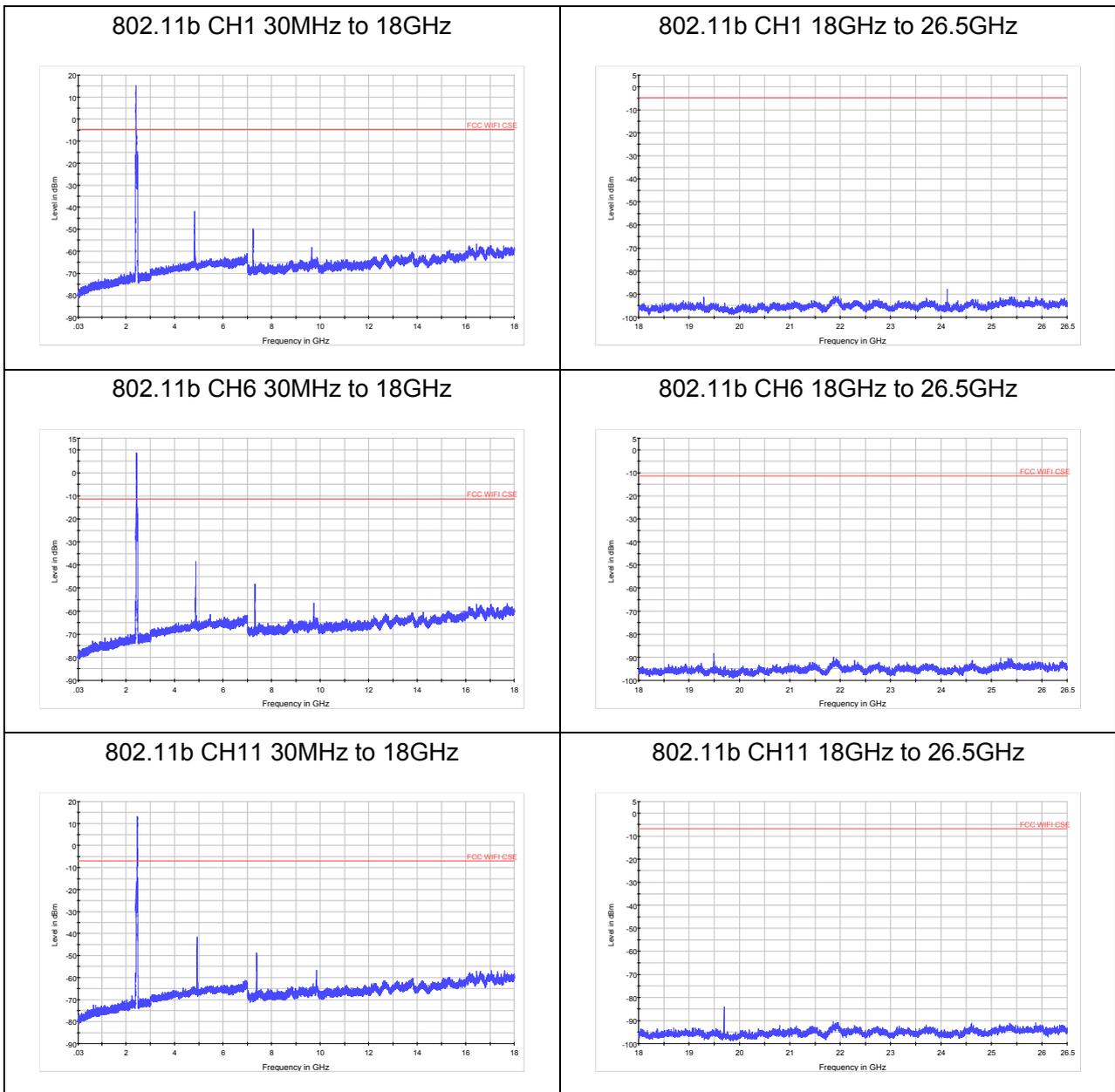
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB



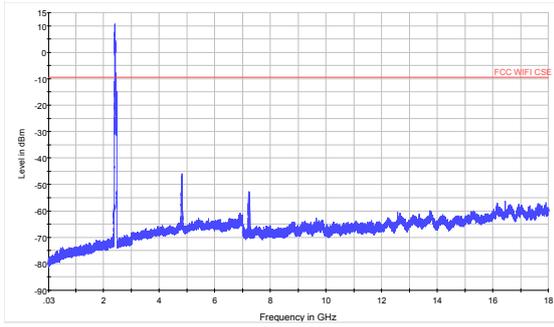
Test Results:

If disturbances were found more than 20dB below limit line, the mark is not required for the EUT.
The signal beyond the limit is carrier.

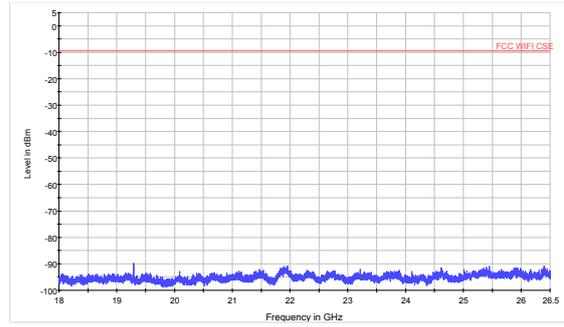




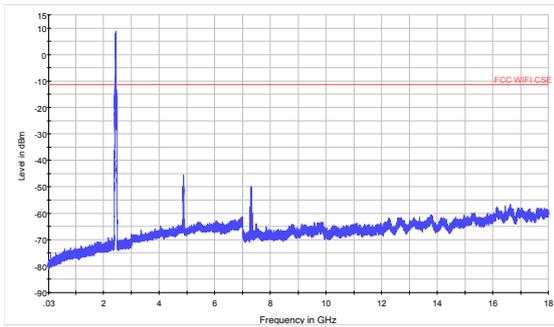
802.11g CH1 30MHz to 18GHz



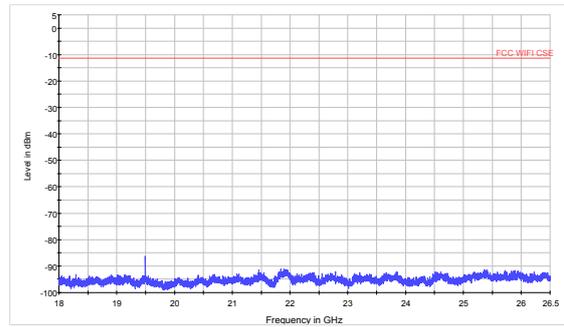
802.11g CH1 18GHz to 26.5GHz



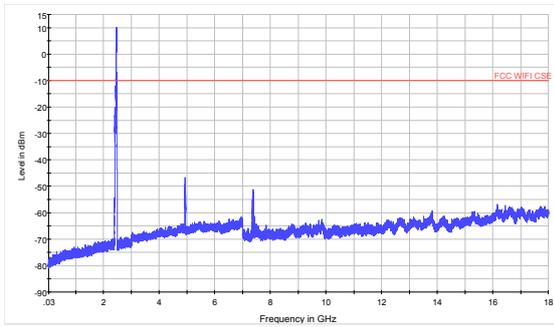
802.11g CH6 30MHz to 18GHz



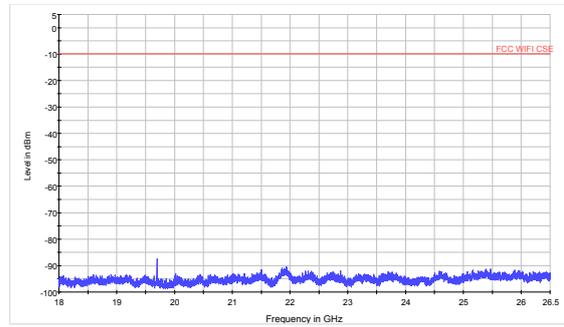
802.11g CH6 18GHz to 26.5GHz



802.11g CH11 30MHz to 18GHz

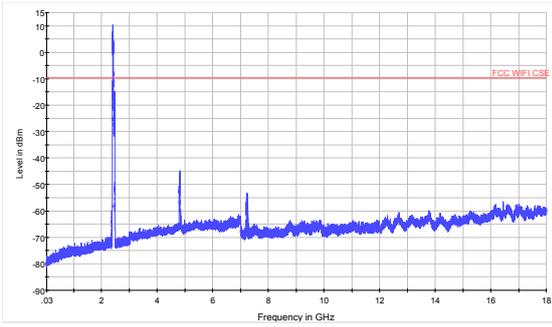


802.11g CH11 18GHz to 26.5GHz

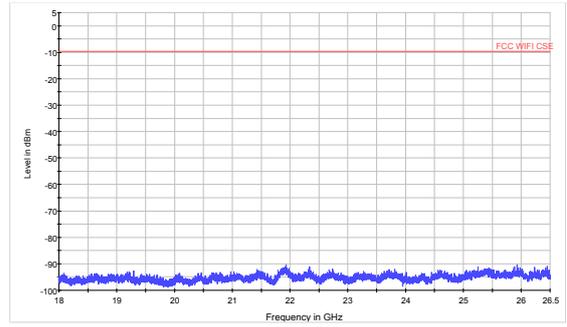




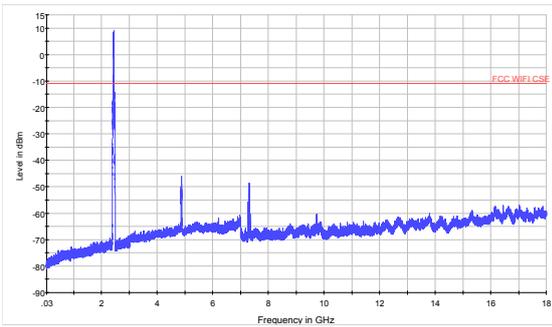
802.11 n (HT20) CH1 30MHz to 18GHz



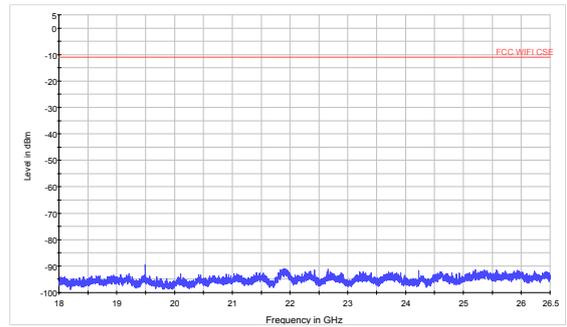
802.11 n (HT20) CH1 18GHz to 26.5GHz



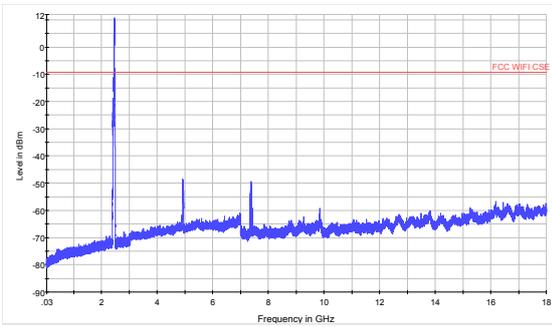
802.11 n (HT20) CH6 30MHz to 18GHz



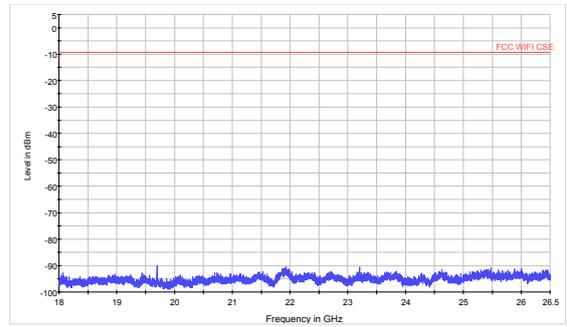
802.11 n (HT20) CH6 18GHz to 26.5GHz



802.11 n (HT20) CH11 30MHz to 18GHz

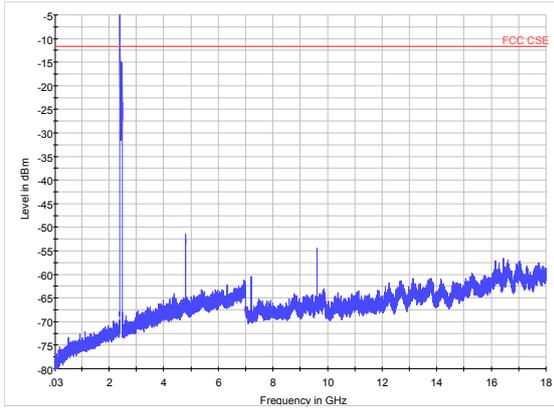


802.11 n (HT20) CH11 18GHz to 26.5GHz

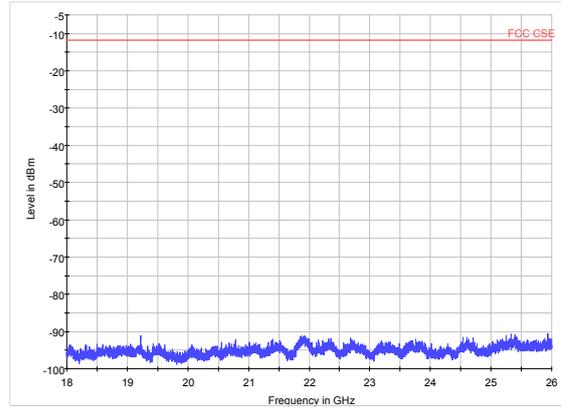




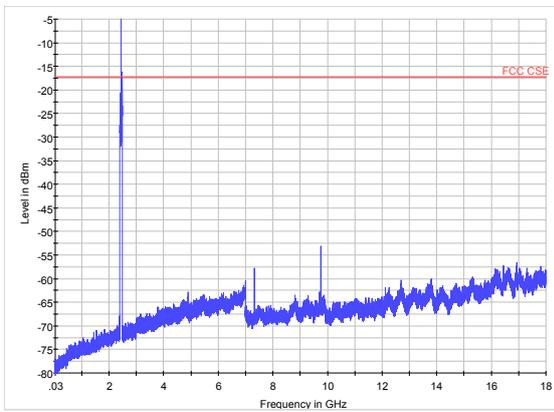
BLE CH0 30MHz to 18GHz



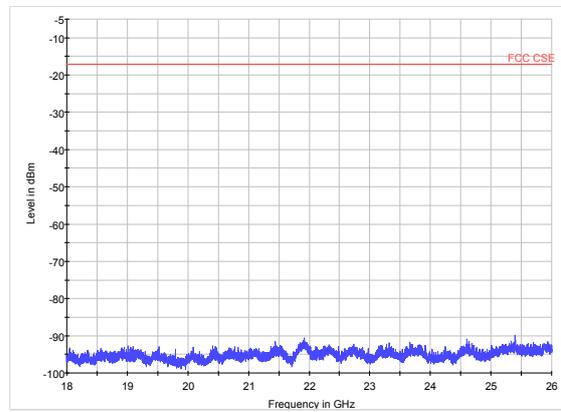
BLE CH0 18GHz to 26.5GHz



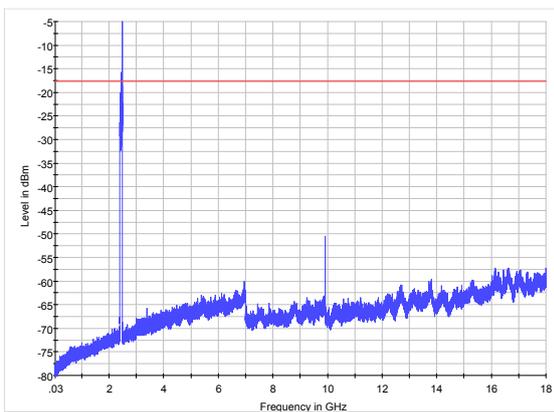
BLE CH19 30MHz to 18GHz



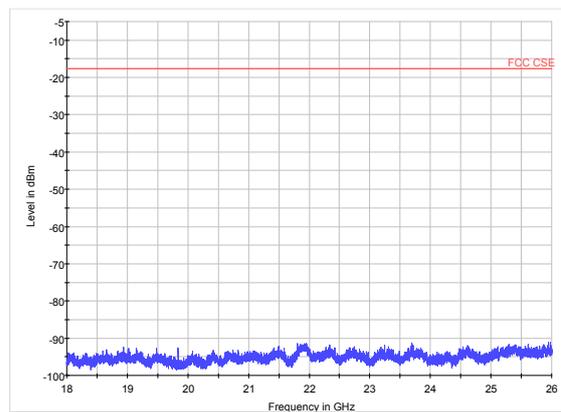
BLE CH19 18GHz to 26.5GHz



BLE CH39 30MHz to 18GHz



BLE CH39 18GHz to 26.5GHz



5.6. Radiated Emissions in the Restricted Band

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 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. RBW is set to 100kHz. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. 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.

Set the spectrum analyzer in the following:

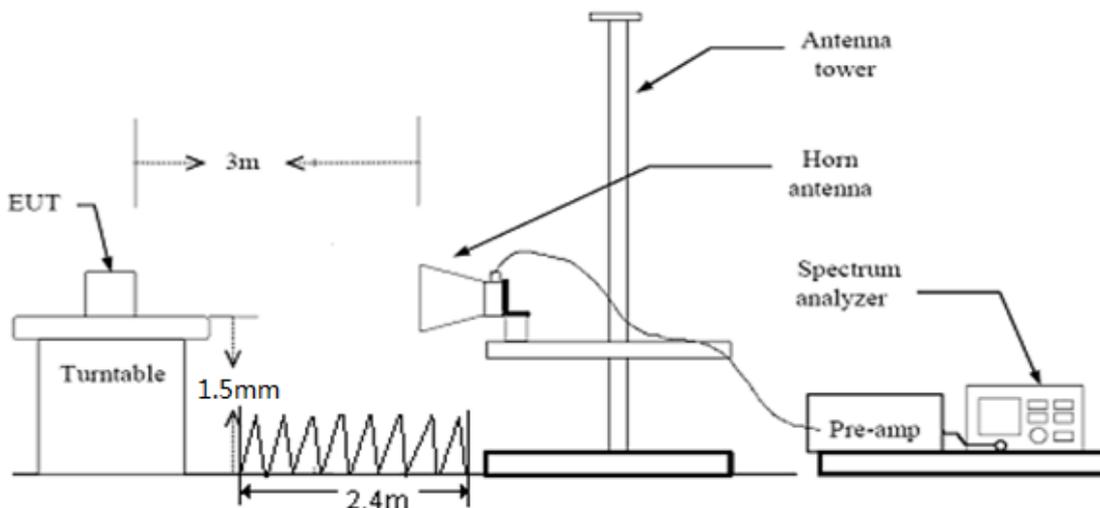
- (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
- (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

This setting method can refer to **KDB 558074**.

The field strength of spurious 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 (Y axis) and the antenna is vertical.

The test is in transmitting mode.

Test setup



Note: Area side: 2.4mX3.6m

Limits

Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 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	(²)
13.36 - 13.41			

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

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74 dBuV/m

Average Limit=54 dBuV/m

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 3.55$ dB.

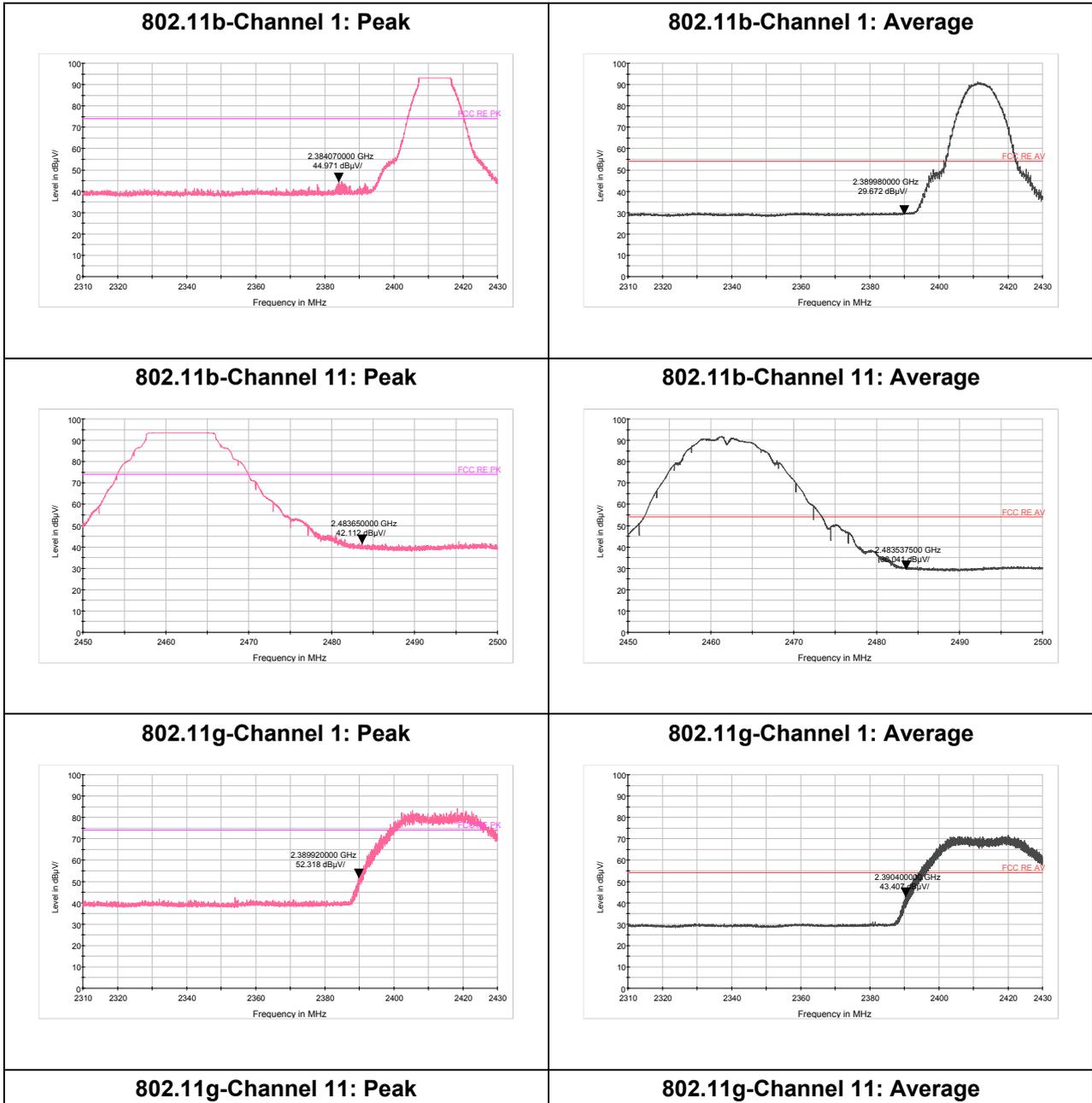


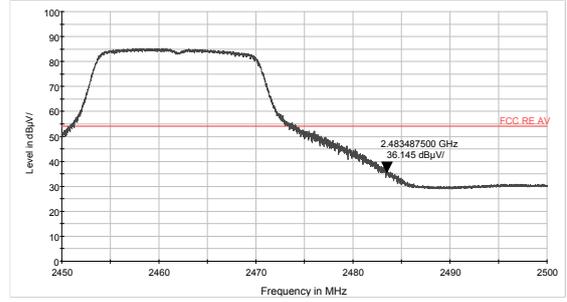
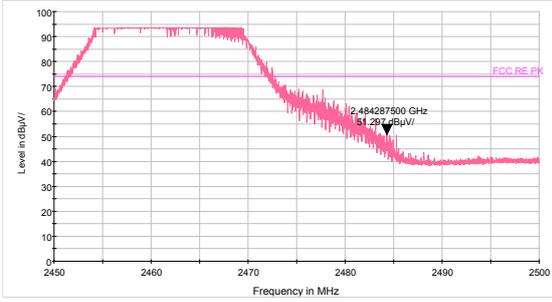
Test Results:

PASS

The messy code (dB_碼/m) including in the following plots mean dBuV/m.

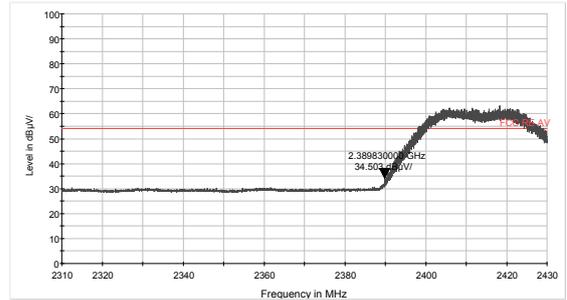
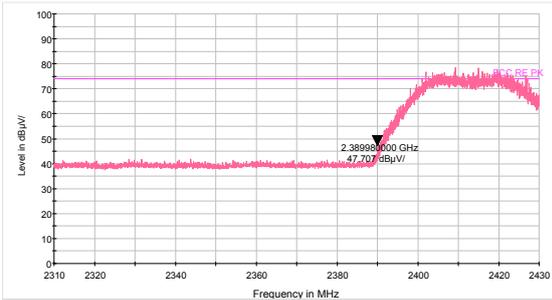
The signal beyond the limit is carrier.





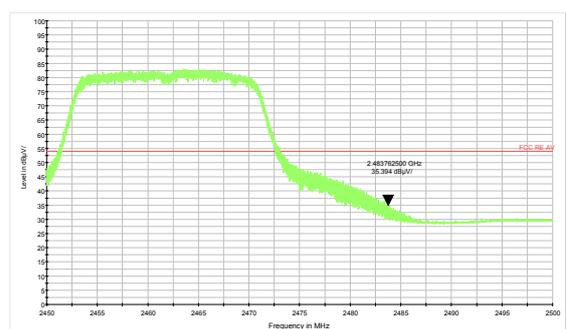
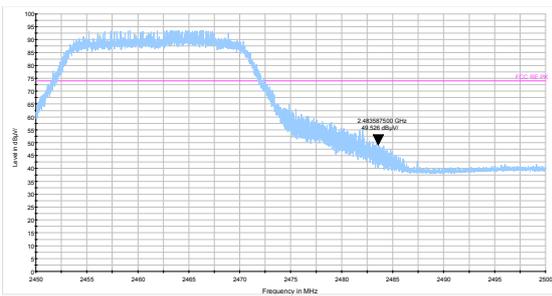
802.11n HT20 -Channel 1: Peak

802.11n HT20-Channel 1: Average



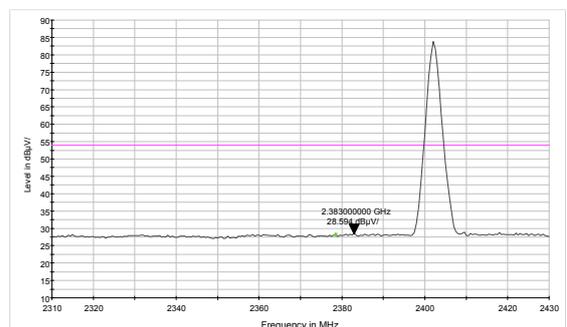
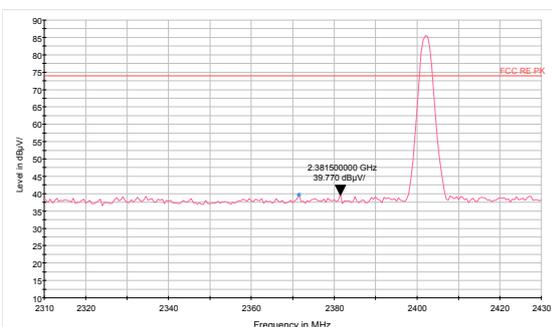
802.11n HT20-Channel 11: Peak

802.11n HT20-Channel 11: Average



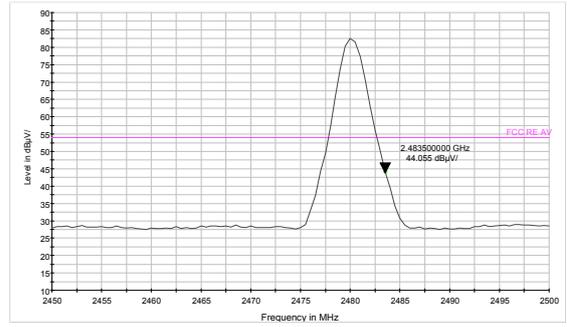
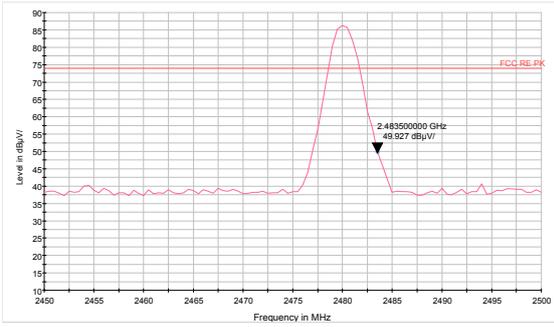
BLE -Channel 0: Peak

BLE -Channel 0: Average



BLE -Channel 39: Peak

BLE -Channel 39: Average



5.7. Radiates Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	102.5kPa

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10-2013. 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 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, below 30MHz, the center of the loop shall be 1 meters; above 30MHz, 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=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz (detector: Peak):

(a) PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

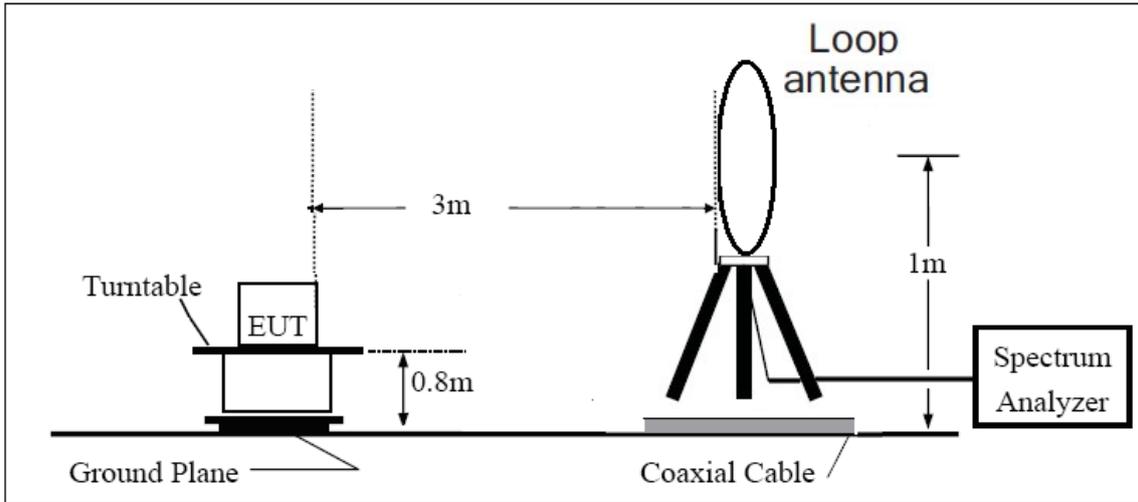
(b) AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

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.

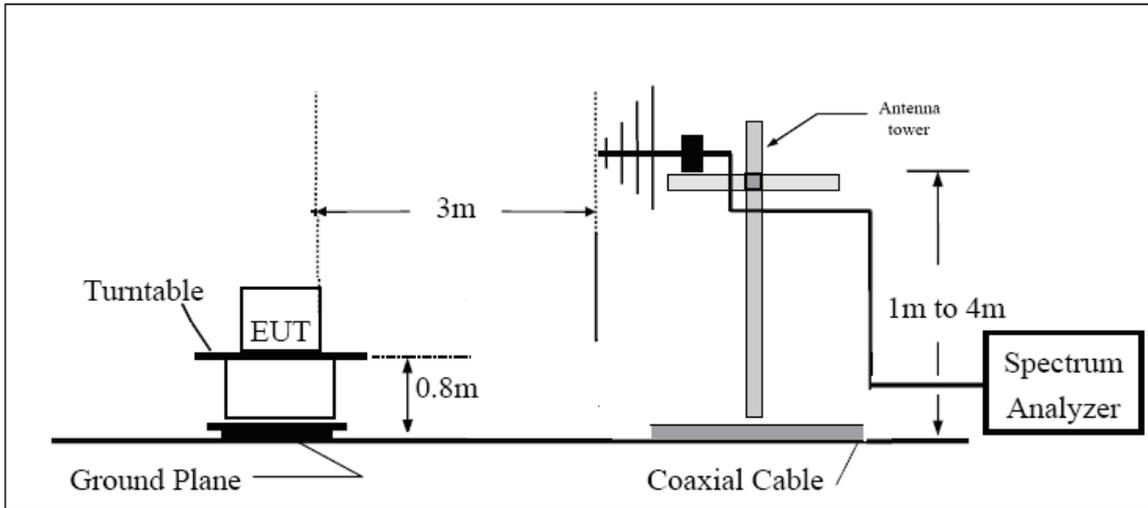
The test is in transmitting mode.

Test setup

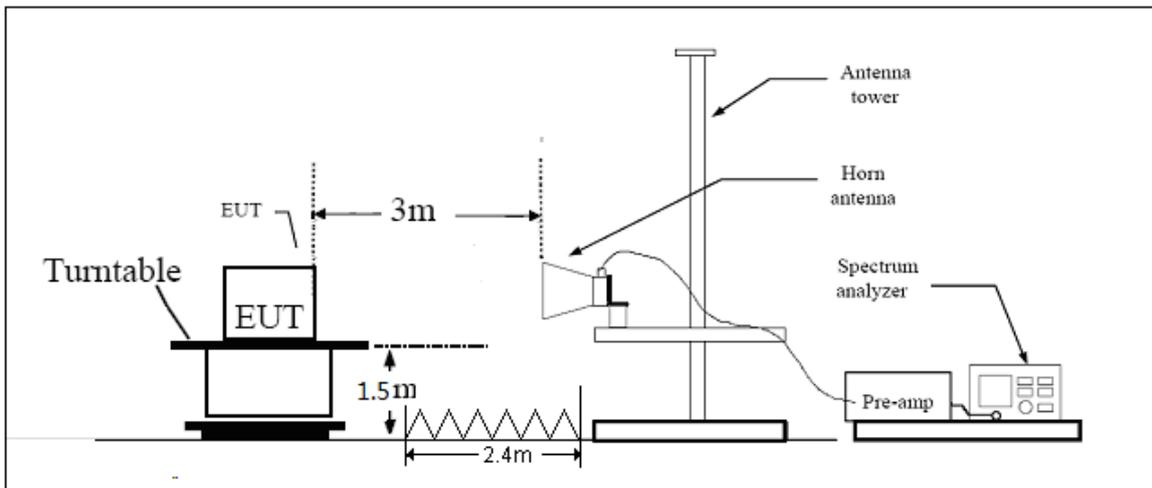
9KHz~~~ 30MHz



30MHz~~~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

**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

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

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
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.19 dB
200MHz-1GHz	3.63 dB
Above 1GHz	3.68 dB



Test result

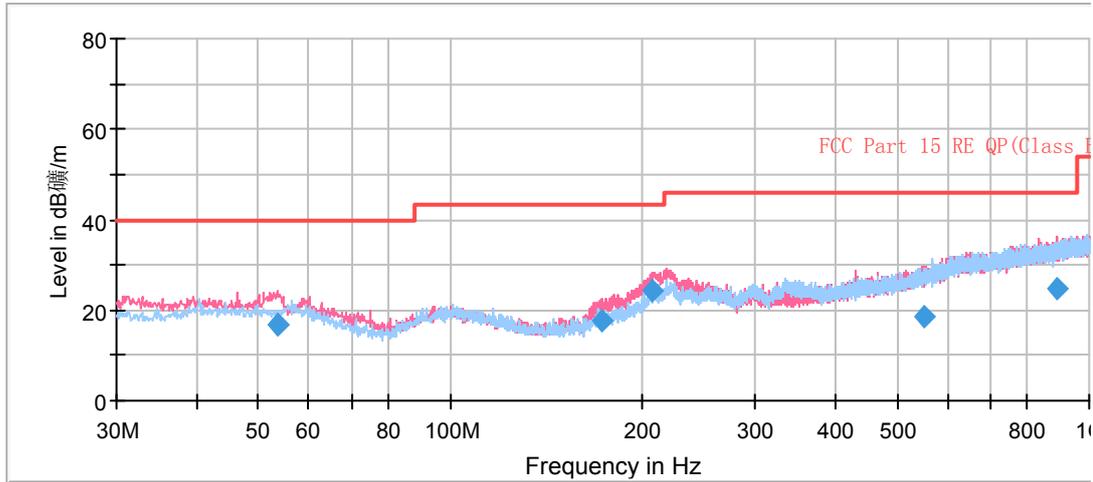
Sweep from 9 kHz to 30MHz, and the emissions more than 20 dB below the permissible value are not reported.

The messy code (dB_{μV/m}) including in the following graphs mean dBuV/m.

The following graphs display the maximum values of horizontal and vertical by software.

For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

802.11b CH1



Radiates Emission from 30MHz to 1GHz

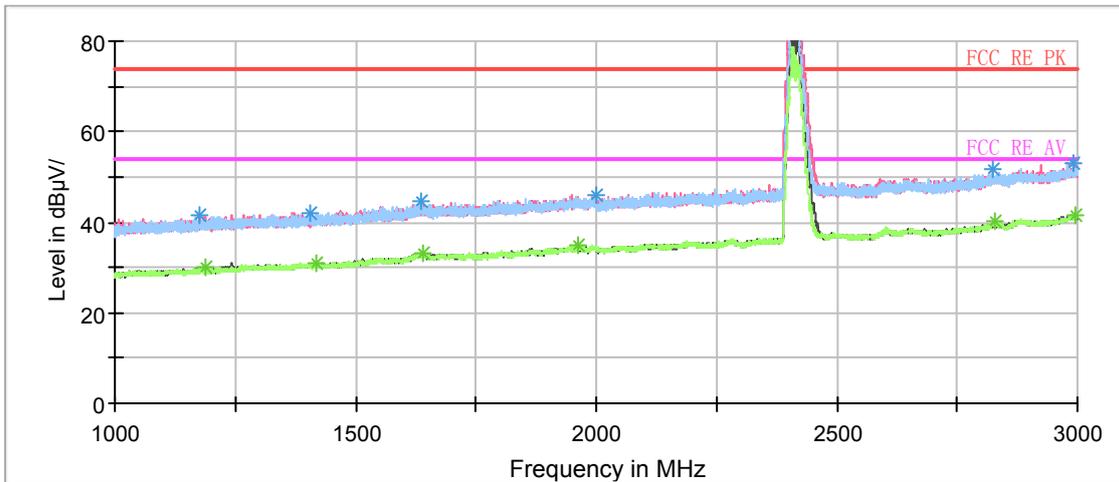
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
53.482500	16.8	100.0	V	14.0	29.6	12.8	23.2	40.0
53.486250	16.7	100.0	V	5.0	29.5	12.8	23.3	40.0
172.625000	17.7	100.0	V	227.0	28.1	10.4	25.8	43.5
207.426250	24.3	100.0	V	354.0	36.6	12.3	19.2	43.5
549.471250	18.5	100.0	V	354.0	39.5	21.0	27.5	46.0
888.895000	24.7	100.0	V	56.0	50.2	25.5	21.3	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

RE 1G-3GHz PK+AV



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

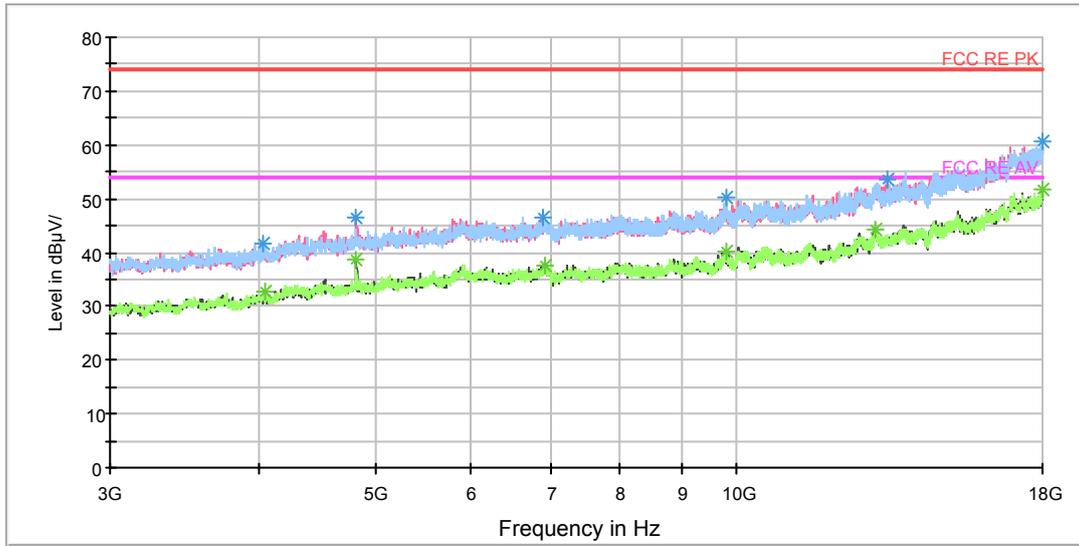
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1175.000000	41.5	100.0	V	186.0	49.5	-8.0	32.5	74
1404.000000	41.9	100.0	H	135.0	49.0	-7.1	32.1	74
1638.000000	44.4	100.0	H	61.0	49.1	-4.7	29.6	74
1998.750000	46.2	100.0	H	0.0	49.6	-3.4	27.8	74
2824.000000	51.6	100.0	H	287.0	53.3	1.7	22.4	74
2991.500000	53.3	100.0	H	318.0	55.5	2.2	20.7	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1190.000000	29.8	100.0	H	7.0	38.0	-8.2	24.2	54
1417.750000	31.1	100.0	H	213.0	38.0	-6.9	22.9	54
1639.250000	33.2	100.0	H	0.0	37.9	-4.7	20.8	54
1961.000000	35.0	100.0	V	30.0	38.2	-3.2	19.0	54
2994.250000	41.7	100.0	H	7.0	44.0	2.3	12.3	54
2828.750000	40.1	100.0	V	0.0	41.7	1.6	13.9	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

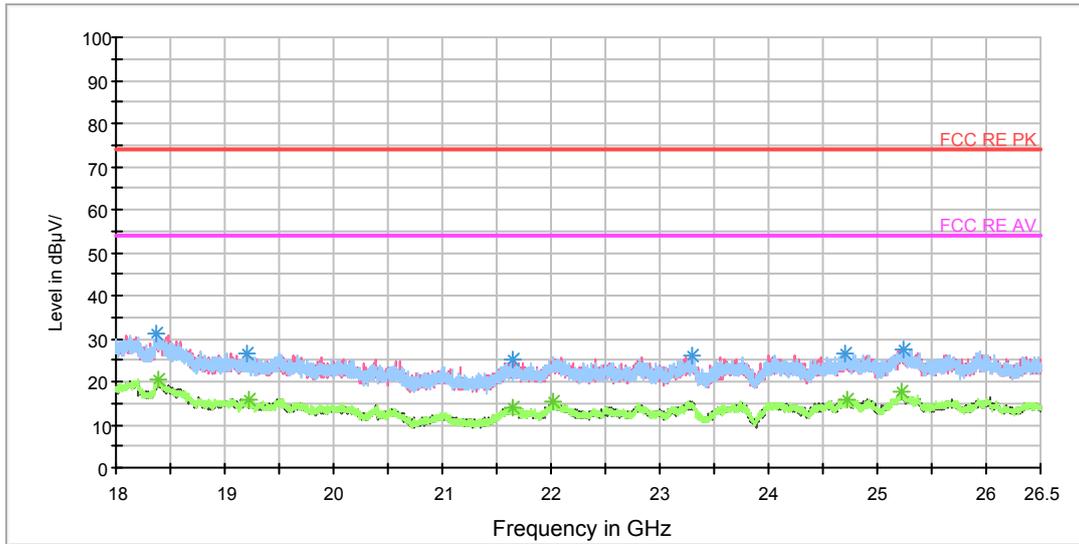
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4020.000000	41.8	101.0	H	152.0	42.3	0.5	32.2	74
4816.875000	46.5	101.0	V	0.0	49.2	2.7	27.5	74
6886.875000	46.5	101.0	H	102.0	53.4	6.9	27.5	74
9798.750000	50.3	101.0	H	77.0	62.6	12.3	23.7	74
13350.000000	53.5	101.0	V	341.0	69.3	15.8	20.5	74
17990.625000	60.7	101.0	V	0.0	86.0	25.3	13.3	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4042.500000	32.7	101.0	V	255.0	33.3	0.6	21.3	54
4816.875000	38.7	101.0	V	0.0	41.4	2.7	15.3	54
6924.375000	37.7	101.0	H	114.0	44.5	6.8	16.3	54
9796.875000	40.3	101.0	H	0.0	52.5	12.2	13.7	54
13078.125000	44.1	101.0	H	77.0	60.3	16.2	9.9	54
18000.000000	51.5	101.0	V	242.0	76.9	25.4	2.5	54

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

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18376.125000	31.3	H	0.0	36.0	-4.7	42.7	74
19210.187500	26.6	H	0.0	33.5	-6.9	47.4	74
21644.375000	24.9	H	0.0	34.0	-9.1	49.1	74
23294.437500	25.8	H	0.0	32.8	-7.0	48.2	74
24707.562500	26.4	V	0.0	33.1	-6.7	47.6	74
25235.625000	27.6	H	0.0	33.6	-6.0	46.4	74

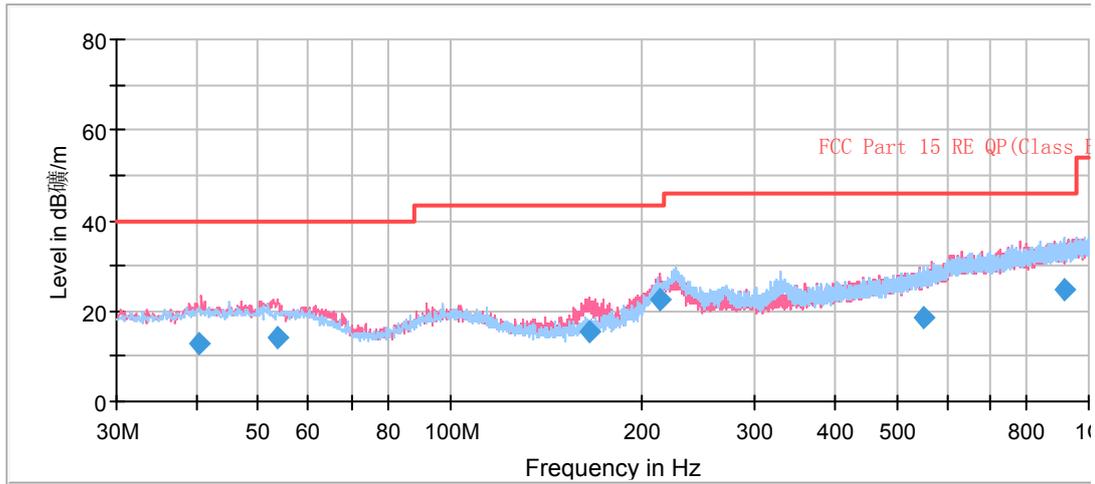
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18384.625000	20.4	H	0.0	25.2	-4.8	33.6	54
19219.750000	16.0	H	0.0	22.8	-6.8	38.0	54
21645.437500	14.1	V	0.0	23.2	-9.1	39.9	54
22026.875000	15.3	V	0.0	23.2	-7.9	38.7	54
24725.625000	16.0	H	0.0	22.2	-6.2	38.0	54
25228.187500	17.6	V	0.0	23.5	-5.9	36.4	54

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



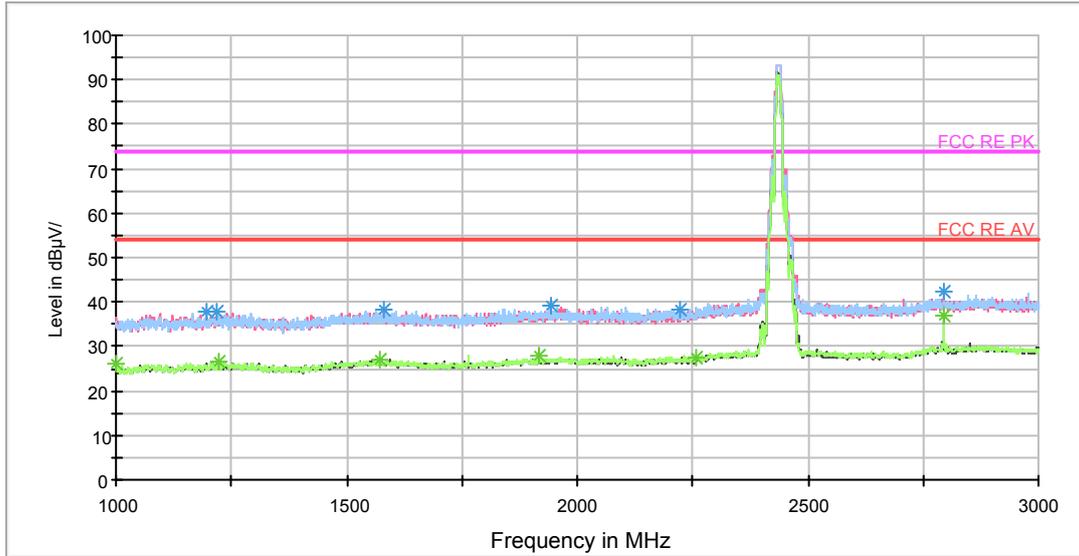
802.11b CH6



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)
40.391250	12.8	100.0	V	87.0	26.0	13.2	27.2	40.0
53.447500	14.3	100.0	V	330.0	27.1	12.8	25.7	40.0
165.475000	15.6	100.0	V	260.0	25.6	10.0	27.9	43.5
212.800000	22.5	100.0	V	209.0	35.1	12.6	21.0	43.5
550.243750	18.5	100.0	H	29.0	39.5	21.0	27.5	46.0
917.715000	24.8	100.0	H	180.0	50.6	25.8	21.2	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

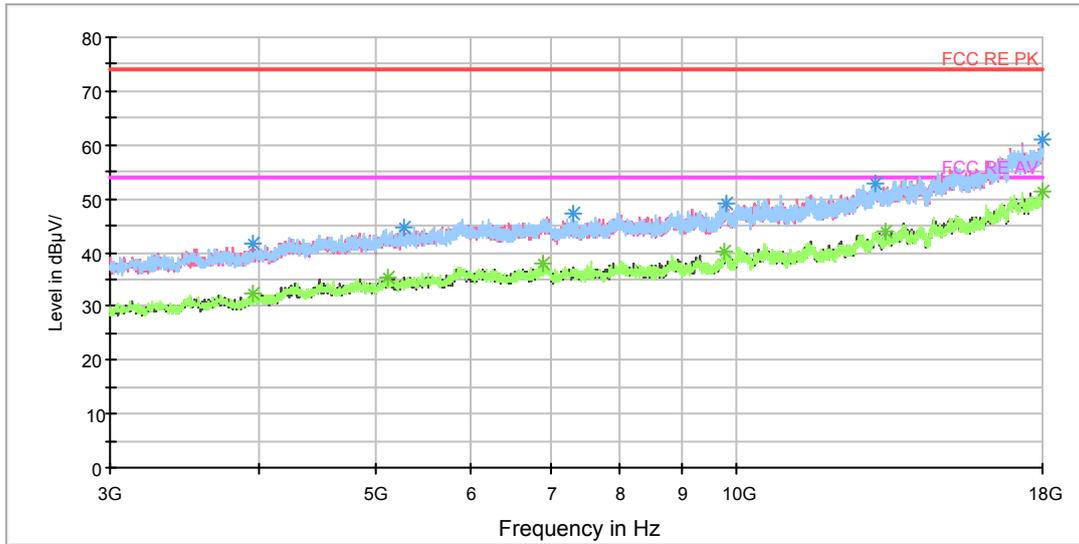
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	35.2	100.0	V	278.0	46.6	-11.4	38.8	74
1224.000000	35.9	100.0	H	0.0	46.4	-10.5	38.1	74
1572.000000	36.3	100.0	V	32.0	45.4	-9.1	37.7	74
1916.500000	36.9	100.0	V	4.0	45.0	-8.1	37.1	74
2795.500000	41.9	100.0	V	178.0	46.1	-4.2	32.1	74
2257.500000	36.9	100.0	H	314.0	43.2	-6.3	37.1	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	26.1	100.0	V	278.0	37.5	-11.4	27.9	54
1224.000000	26.6	100.0	H	0.0	37.1	-10.5	27.4	54
1572.000000	26.9	100.0	V	32.0	36.0	-9.1	27.1	54
1916.500000	27.7	100.0	V	4.0	35.8	-8.1	26.3	54
2795.500000	36.7	100.0	V	178.0	40.9	-4.2	17.3	54
2257.500000	27.6	100.0	H	314.0	33.9	-6.3	26.4	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

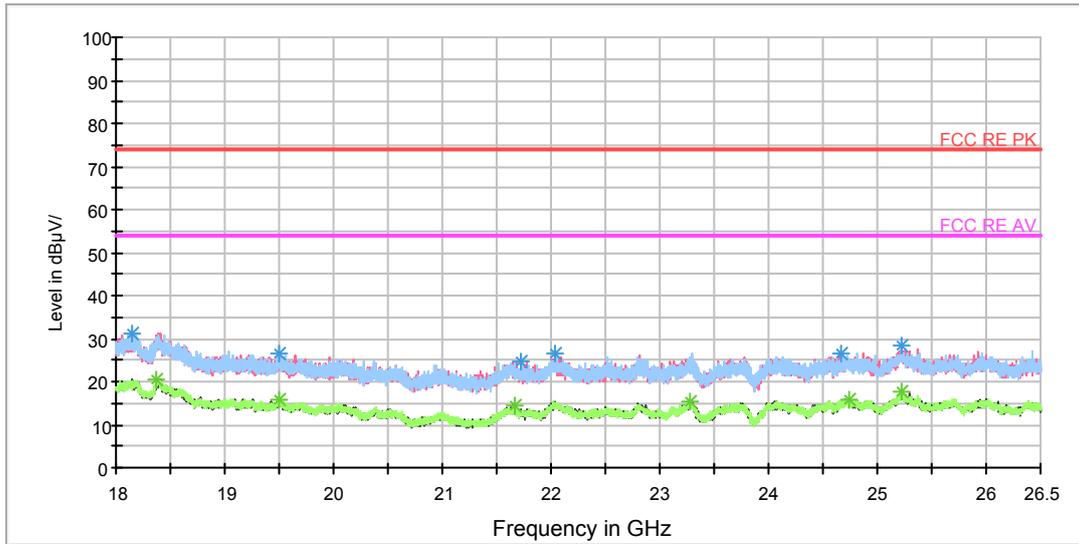
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3950.625000	41.8	101.0	V	166.0	41.9	0.1	32.2	74
5272.500000	44.7	101.0	V	140.0	48.4	3.7	29.3	74
7318.125000	47.1	101.0	H	186.0	55.6	8.5	26.9	74
9796.875000	49.2	101.0	V	140.0	61.4	12.2	24.8	74
13038.750000	52.9	101.0	H	0.0	69.1	16.2	21.1	74
17990.625000	61.1	101.0	H	186.0	86.4	25.3	12.9	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3956.250000	32.4	101.0	H	237.0	32.6	0.2	21.6	54
5109.375000	35.5	101.0	H	199.0	39.1	3.6	18.5	54
6892.500000	38.0	101.0	V	291.0	44.9	6.9	16.0	54
9753.750000	40.3	101.0	V	0.0	52.0	11.7	13.7	54
13333.125000	43.8	101.0	V	31.0	59.5	15.7	10.2	54
17990.625000	51.5	101.0	H	186.0	76.8	25.3	2.5	54

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

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18149.812500	31.3	V	0.0	36.3	-5.0	42.7	74
19502.375000	26.7	V	0.0	34.2	-7.5	47.3	74
21715.562500	24.5	V	0.0	34.0	-9.5	49.5	74
22040.687500	26.7	V	0.0	34.7	-8.0	47.3	74
24662.937500	26.7	V	0.0	33.7	-7.0	47.3	74
25214.375000	28.2	H	0.0	34.3	-6.1	45.8	74

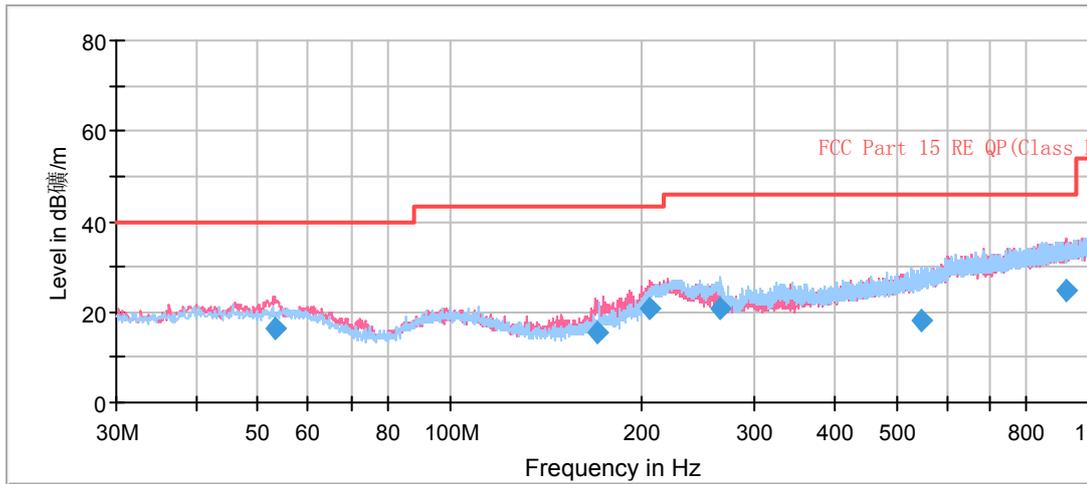
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18379.312500	20.6	H	0.0	25.4	-4.8	33.4	54
19500.250000	15.9	H	0.0	23.4	-7.5	38.1	54
21660.312500	14.4	H	0.0	23.6	-9.2	39.6	54
23280.625000	15.6	V	0.0	22.7	-7.1	38.4	54
24737.312500	15.9	H	0.0	22.3	-6.4	38.1	54
25230.312500	17.7	V	0.0	23.6	-5.9	36.3	54

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



802.11b CH11



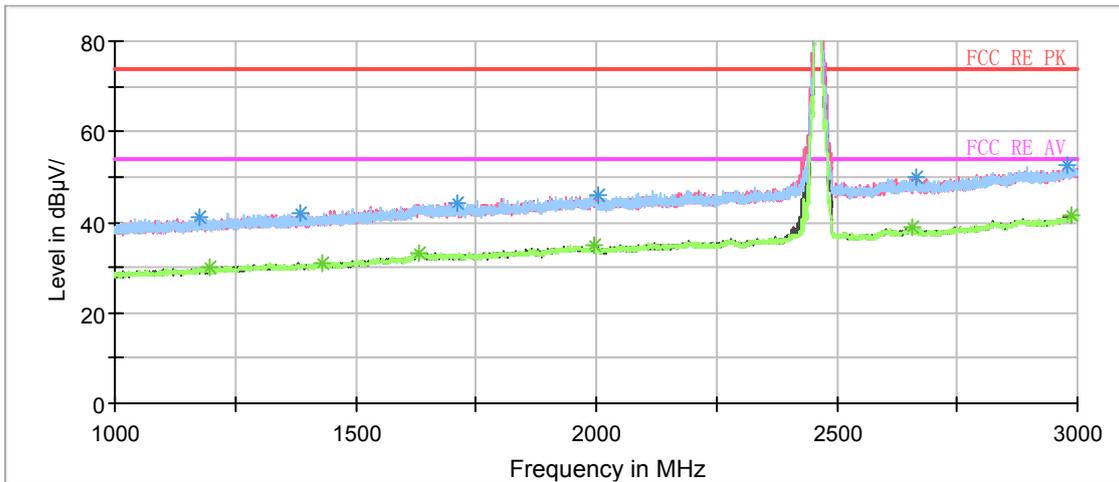
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
53.398750	16.5	100.0	V	3.0	29.3	12.8	23.5	40.0
169.516250	15.3	100.0	V	279.0	25.5	10.2	28.2	43.5
206.050000	20.6	100.0	V	3.0	32.9	12.3	22.9	43.5
265.110000	20.8	100.0	H	15.0	35.3	14.5	25.2	46.0
547.292500	18.3	100.0	H	231.0	39.2	20.9	27.7	46.0
922.272500	24.8	100.0	V	218.0	50.6	25.8	21.2	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



RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1197.250000	39.7	100.0	V	0.0	47.9	-8.2	34.3	74
1429.000000	40.3	100.0	H	105.0	47.2	-6.9	33.7	74
1632.750000	43.2	100.0	H	98.0	47.9	-4.7	30.8	74
1997.500000	44.4	100.0	V	0.0	47.7	-3.3	29.6	74
2656.750000	47.7	100.0	V	324.0	48.1	0.4	26.3	74
2985.750000	49.7	100.0	H	186.0	51.9	2.2	24.3	74

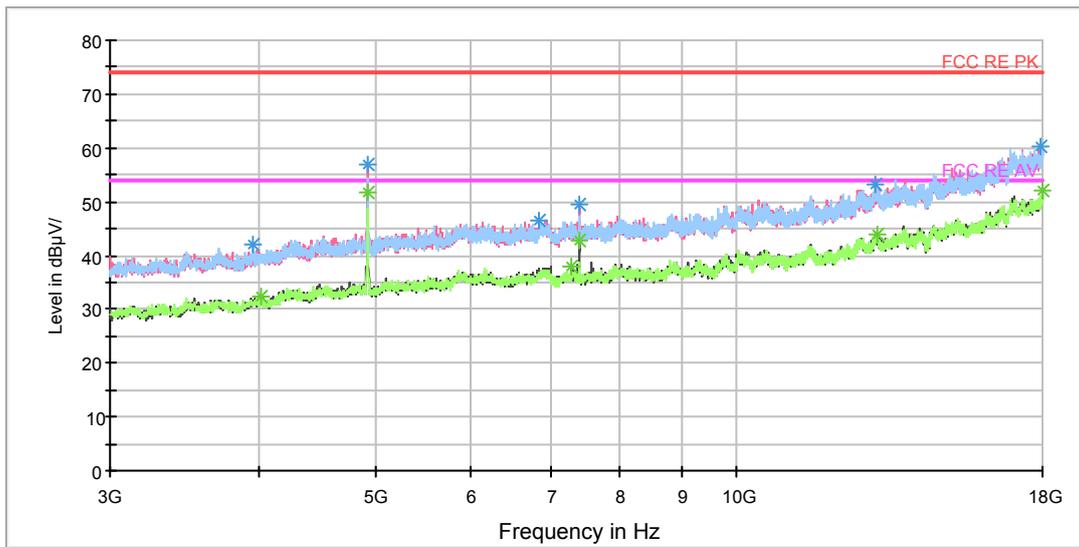
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1197.250000	29.9	100.0	V	0.0	38.1	-8.2	24.1	54
1429.000000	30.9	100.0	H	105.0	37.8	-6.9	23.1	54
1632.750000	33.3	100.0	H	98.0	38.0	-4.7	20.7	54
1997.500000	34.8	100.0	V	0.0	38.1	-3.3	19.2	54
2656.750000	38.9	100.0	V	324.0	39.3	0.4	15.1	54
2985.750000	41.6	100.0	H	186.0	43.8	2.2	12.4	54

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



RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

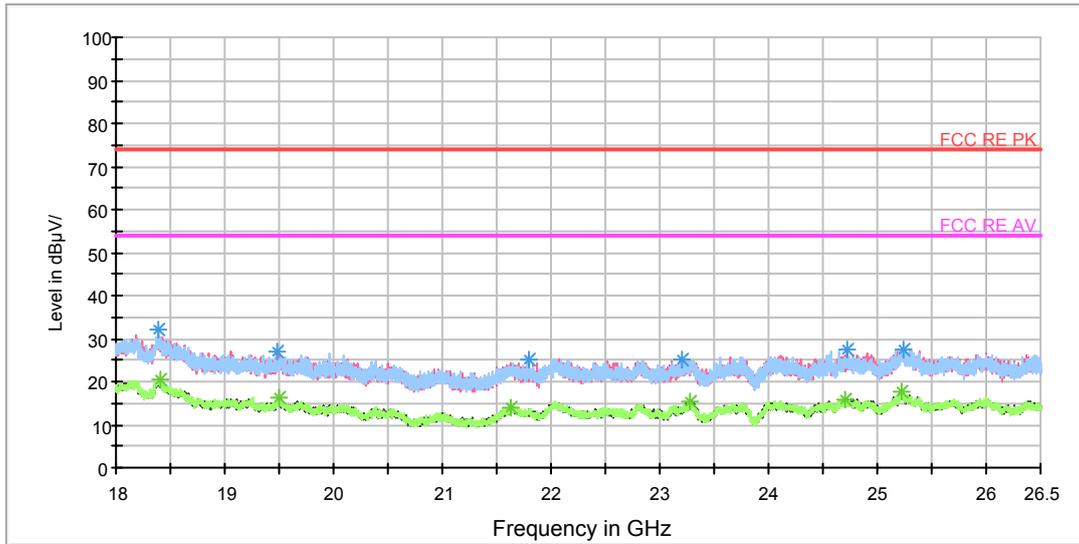
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3950.625000	41.9	101.0	H	0.0	42.0	0.1	32.1	74
4923.750000	56.8	101.0	V	359.0	59.9	3.1	17.2	74
6851.250000	46.5	101.0	H	69.0	53.1	6.6	27.5	74
7380.000000	49.5	101.0	V	3.0	57.5	8.0	24.5	74
13057.500000	53.2	101.0	H	145.0	69.4	16.2	20.8	74
17955.000000	60.1	101.0	V	329.0	85.0	24.9	13.9	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4012.500000	32.5	101.0	H	299.0	33.0	0.5	21.5	54
4923.750000	51.9	101.0	V	359.0	55.0	3.1	2.1	54
7275.000000	38.1	101.0	V	240.0	46.8	8.7	15.9	54
7387.500000	42.9	101.0	V	0.0	50.8	7.9	11.1	54
13089.375000	44.1	101.0	V	240.0	60.3	16.2	9.9	54
17986.875000	52.2	101.0	H	207.0	77.4	25.2	1.8	54

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

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18396.312500	32.1	H	0.0	37.0	-4.9	41.9	74
19488.562500	26.8	V	0.0	34.5	-7.7	47.2	74
21800.562500	25.0	V	0.0	33.7	-8.7	49.0	74
23208.375000	25.3	H	0.0	33.7	-8.4	48.7	74
24726.687500	27.6	V	0.0	33.8	-6.2	46.4	74
25235.625000	27.6	V	0.0	33.6	-6.0	46.4	74

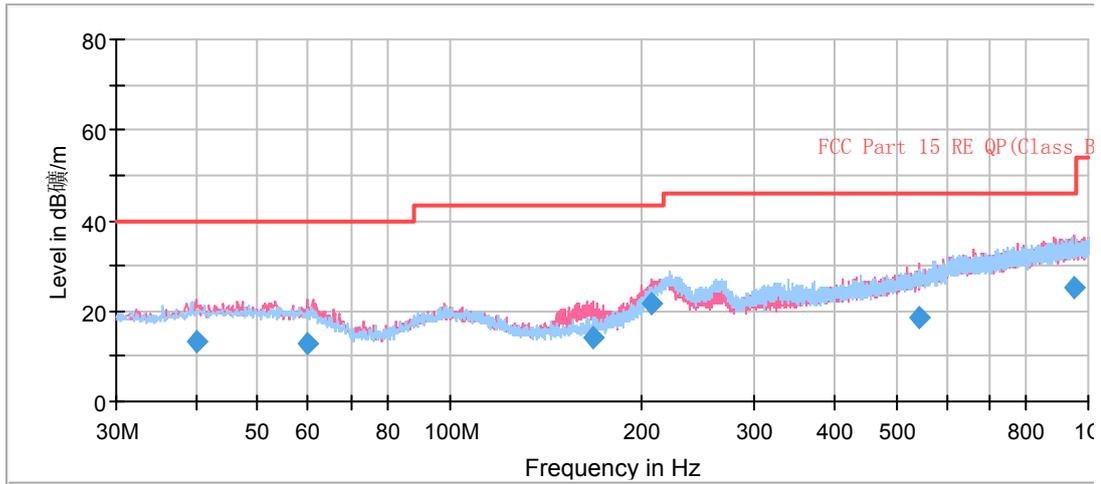
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18399.500000	20.7	V	0.0	25.6	-4.9	33.3	54
19491.750000	16.2	V	0.0	23.8	-7.6	37.8	54
21627.375000	14.1	H	0.0	23.2	-9.1	39.9	54
23278.500000	15.5	H	0.0	22.7	-7.2	38.5	54
24708.625000	15.9	V	0.0	22.5	-6.6	38.1	54
25215.437500	17.5	V	0.0	23.6	-6.1	36.5	54

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



802.11g CH1



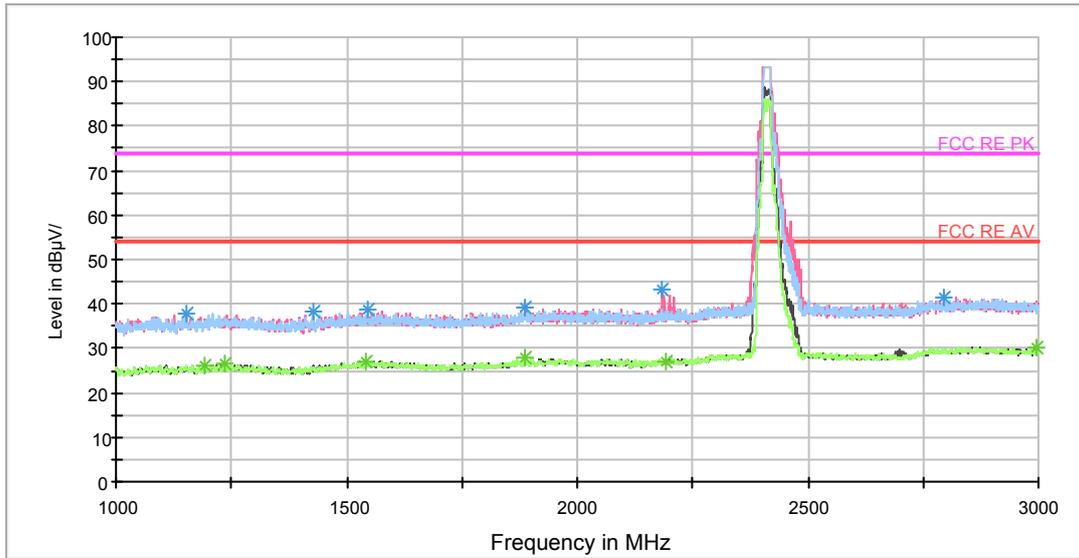
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
40.143750	13.5	100.0	V	356.0	26.7	13.2	26.5	40.0
59.946250	13.0	100.0	V	168.0	25.5	12.5	27.0	40.0
167.578750	14.2	100.0	V	229.0	24.3	10.1	29.3	43.5
207.585000	21.6	100.0	V	188.0	33.9	12.3	21.9	43.5
543.983750	18.4	100.0	V	249.0	39.3	20.9	27.6	46.0
950.688750	25.1	100.0	V	168.0	51.1	26.0	20.9	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



RE 1G-6GHz PK+AV Class B



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1192.500000	36.4	100.0	V	355.0	47.1	-10.7	37.6	74
1237.500000	36.8	100.0	H	2.0	47.3	-10.5	37.2	74
1543.000000	37.0	100.0	H	100.0	46.2	-9.2	37.0	74
1887.000000	37.4	100.0	V	359.0	45.5	-8.1	36.6	74
2996.000000	39.4	100.0	V	0.0	43.4	-4.0	34.6	74
2190.500000	36.5	100.0	V	275.0	43.2	-6.7	37.5	74

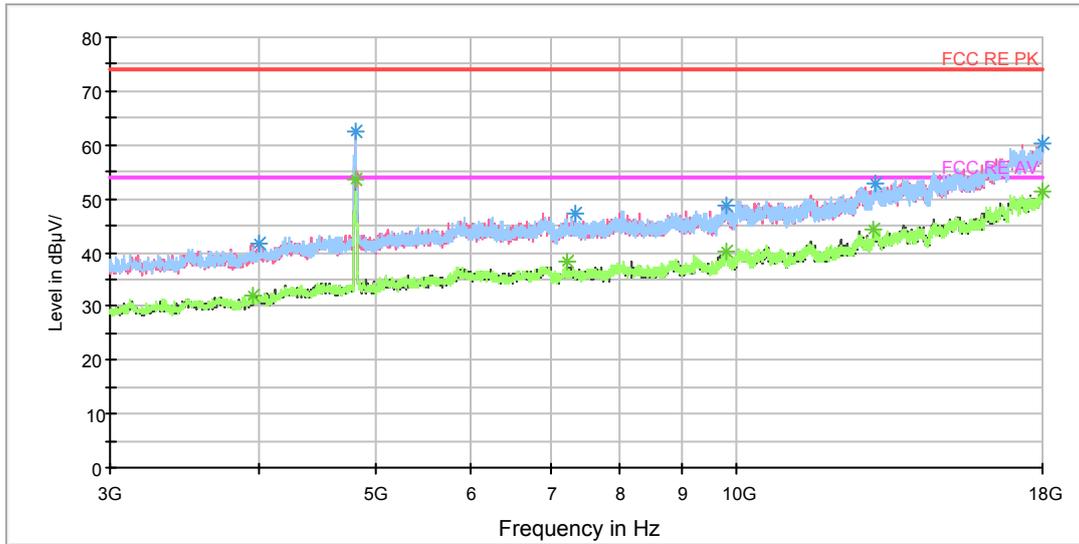
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1192.500000	26.2	100.0	V	355.0	36.9	-10.7	27.8	54
1237.500000	26.4	100.0	H	2.0	36.9	-10.5	27.6	54
1543.000000	27.2	100.0	H	100.0	36.4	-9.2	26.8	54
1887.000000	27.7	100.0	V	359.0	35.8	-8.1	26.3	54
2996.000000	30.1	100.0	V	0.0	34.1	-4.0	23.9	54
2190.500000	26.9	100.0	V	275.0	33.6	-6.7	27.1	54

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



RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

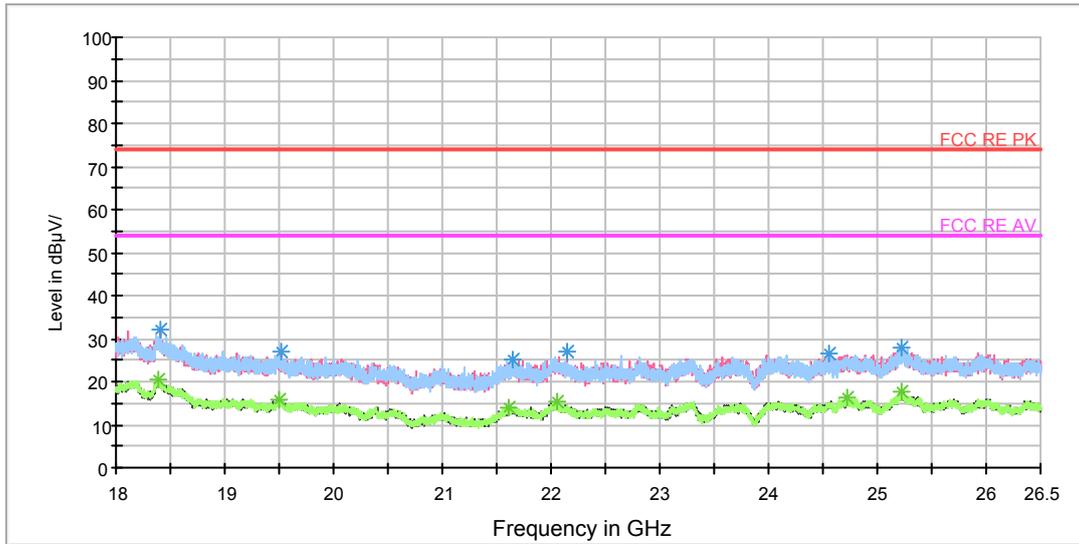
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3990.000000	41.6	101.0	V	32.0	42.0	0.4	32.4	74
4809.375000	62.6	101.0	H	10.0	65.3	2.7	11.4	74
7323.750000	47.3	101.0	H	10.0	55.8	8.5	26.7	74
9793.125000	48.7	101.0	H	145.0	60.9	12.2	25.3	74
13078.125000	52.8	101.0	V	346.0	69.0	16.2	21.2	74
17986.875000	60.3	101.0	V	0.0	85.5	25.2	13.7	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3946.875000	32.1	101.0	H	0.0	32.2	0.1	21.9	54
4811.250000	53.7	101.0	V	0.0	56.4	2.7	0.3	54
7230.000000	38.4	101.0	V	0.0	47.1	8.7	15.6	54
9793.125000	40.3	101.0	H	145.0	52.5	12.2	13.7	54
13029.375000	44.3	101.0	H	195.0	60.5	16.2	9.7	54
17990.625000	51.4	101.0	V	206.0	76.7	25.3	2.6	54

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

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18410.125000	31.9	V	0.0	36.9	-5.0	42.1	74
19525.750000	27.1	V	0.0	34.5	-7.4	46.9	74
21645.437500	25.1	V	0.0	34.2	-9.1	48.9	74
22143.750000	27.1	V	0.0	35.7	-8.6	46.9	74
24554.562500	26.3	V	0.0	34.1	-7.8	47.7	74
25223.937500	27.9	V	0.0	33.8	-5.9	46.1	74

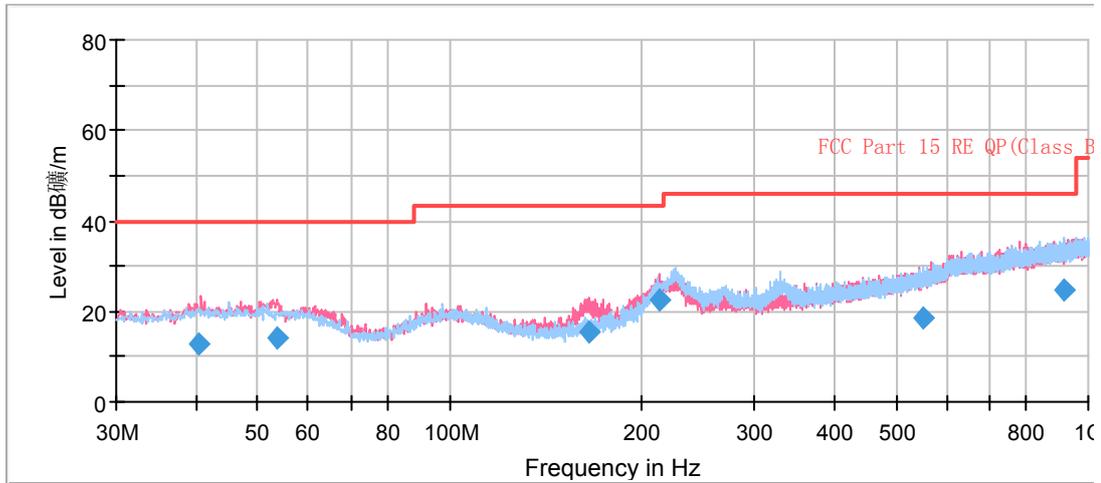
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18384.625000	20.6	V	0.0	25.4	-4.8	33.4	54
19496.000000	16.0	V	0.0	23.6	-7.6	38.0	54
21613.562500	13.9	V	0.0	22.8	-8.9	40.1	54
22051.312500	15.1	H	0.0	23.2	-8.1	38.9	54
24721.375000	16.2	V	0.0	22.5	-6.3	37.8	54
25227.125000	17.5	H	0.0	23.4	-5.9	36.5	54

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



802.11g CH6



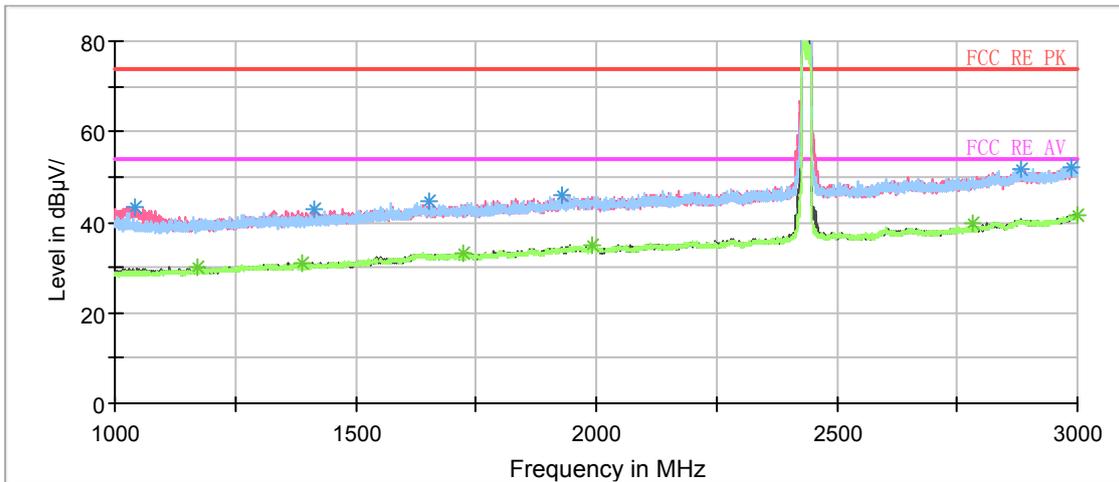
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
40.391250	12.8	100.0	V	87.0	26.0	13.2	27.2	40.0
53.447500	14.3	100.0	V	330.0	27.1	12.8	25.7	40.0
165.475000	15.6	100.0	V	260.0	25.6	10.0	27.9	43.5
212.800000	22.5	100.0	V	209.0	35.1	12.6	21.0	43.5
550.243750	18.5	100.0	H	29.0	39.5	21.0	27.5	46.0
917.715000	24.8	100.0	H	180.0	50.6	25.8	21.2	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



RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

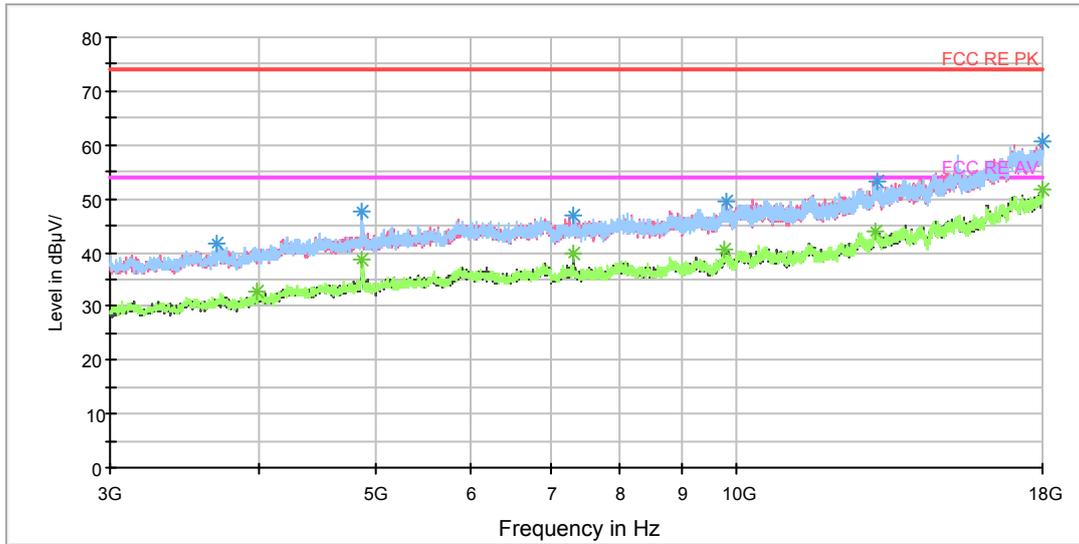
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1041.500000	43.5	100.0	V	0.0	52.5	-9.0	30.5	74
1414.500000	42.7	100.0	V	0.0	49.7	-7.0	31.3	74
1651.250000	44.4	100.0	V	0.0	49.5	-5.1	29.6	74
1927.500000	45.8	100.0	H	321.0	49.5	-3.7	28.2	74
2882.000000	51.8	100.0	V	129.0	54.1	2.3	22.2	74
2986.750000	52.3	100.0	V	328.0	54.5	2.2	21.7	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1170.750000	29.9	100.0	H	190.0	38.0	-8.1	24.1	54
1388.750000	30.9	100.0	H	109.0	37.9	-7.0	23.1	54
1724.250000	33.1	100.0	V	355.0	38.1	-5.0	20.9	54
1992.000000	35.0	100.0	V	276.0	38.3	-3.3	19.0	54
2782.500000	39.7	100.0	V	223.0	40.6	0.9	14.3	54
2999.250000	41.6	100.0	V	342.0	43.9	2.3	12.4	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

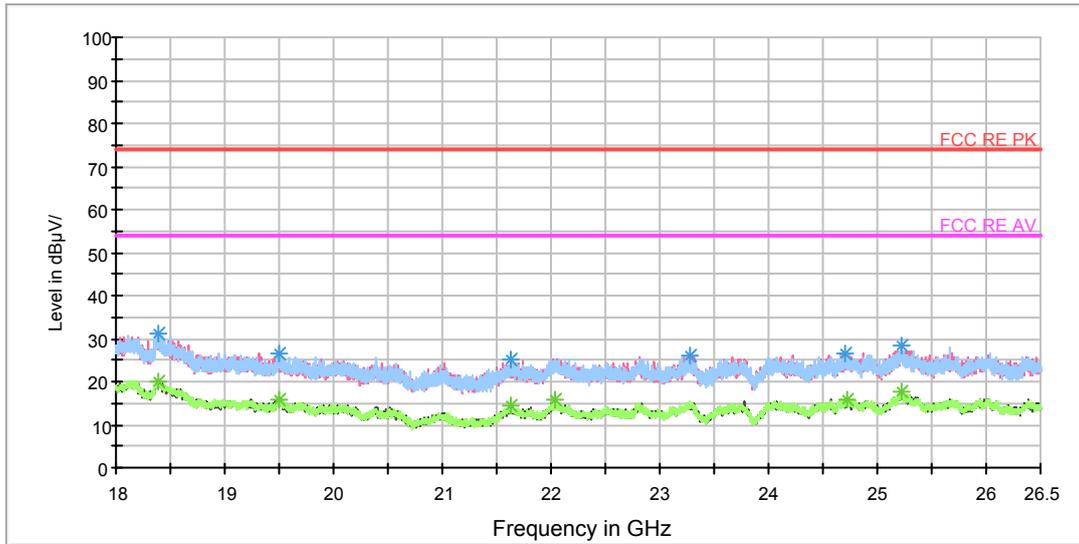
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3684.375000	41.6	101.0	H	61.0	42.0	-0.4	32.4	74
4873.125000	47.8	101.0	V	25.0	50.8	3.0	26.2	74
7303.125000	47.0	101.0	V	0.0	55.7	8.7	27.0	74
9798.750000	49.5	101.0	V	0.0	61.8	12.3	24.5	74
13089.375000	53.1	101.0	V	25.0	69.3	16.2	20.9	74
17996.250000	60.6	101.0	H	221.0	86.0	25.4	13.4	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3984.375000	32.7	101.0	H	73.0	33.1	0.4	21.3	54
4875.000000	38.8	101.0	V	0.0	41.8	3.0	15.2	54
7303.125000	40.0	101.0	V	0.0	48.7	8.7	14.0	54
9748.125000	40.5	101.0	H	24.0	52.1	11.6	13.5	54
13080.000000	44.0	101.0	V	188.0	60.2	16.2	10.0	54
17971.875000	51.7	101.0	V	255.0	76.8	25.1	2.3	54

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

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

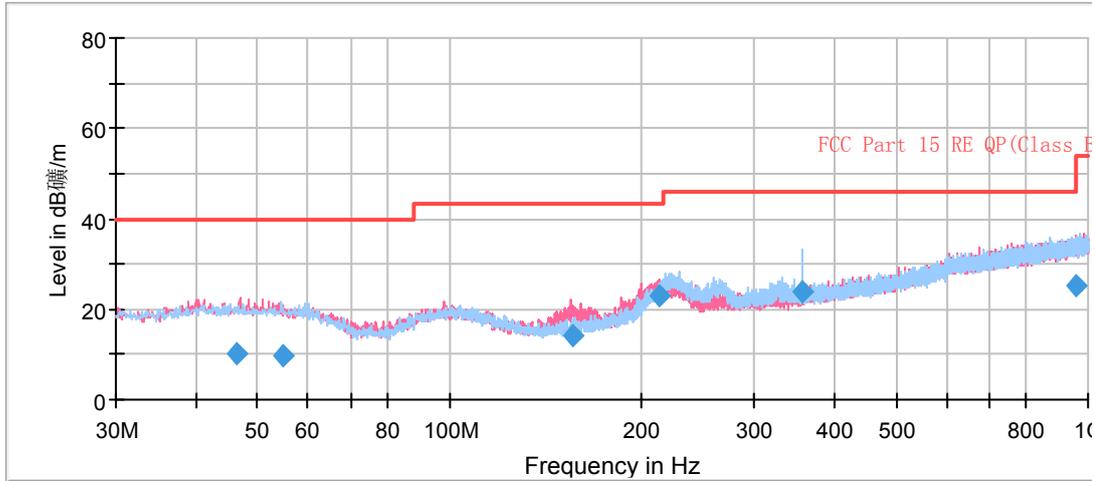
Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18388.875000	31.2	H	0.0	36.1	-4.9	42.8	74
19503.437500	26.5	H	0.0	34.0	-7.5	47.5	74
21638.000000	25.2	H	0.0	34.3	-9.1	48.8	74
23276.375000	25.9	V	0.0	33.1	-7.2	48.1	74
24710.750000	26.4	V	0.0	33.0	-6.6	47.6	74
25223.937500	28.5	V	0.0	34.4	-5.9	45.5	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18394.187500	20.2	H	0.0	25.1	-4.9	33.8	54
19496.000000	16.0	V	0.0	23.6	-7.6	38.0	54
21632.687500	14.3	H	0.0	23.4	-9.1	39.7	54
22027.937500	15.7	V	0.0	23.6	-7.9	38.3	54
24721.375000	16.0	H	0.0	22.3	-6.3	38.0	54
25223.937500	17.6	V	0.0	23.5	-5.9	36.4	54

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

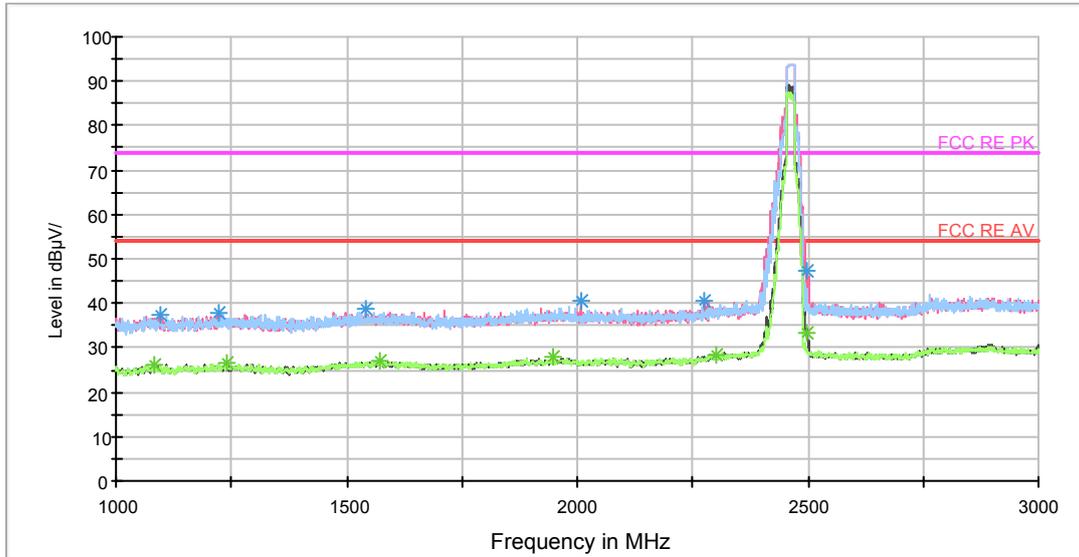
802.11g CH11



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)
46.495000	10.4	100.0	V	89.0	23.5	13.1	29.6	40.0
54.891250	9.5	100.0	H	89.0	22.2	12.7	30.5	40.0
155.487500	14.3	100.0	V	270.0	23.7	9.4	29.2	43.5
212.522500	23.1	100.0	V	209.0	35.7	12.6	20.4	43.5
355.596250	23.8	100.0	H	0.0	40.6	16.8	22.2	46.0
958.658750	25.4	100.0	V	310.0	51.6	26.2	20.6	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

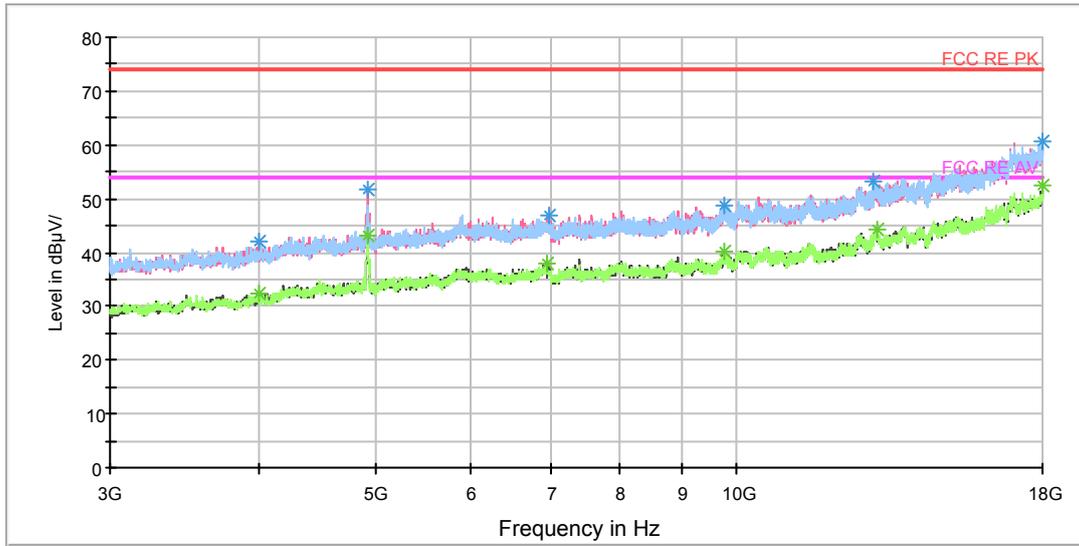
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1082.000000	36.5	100.0	V	212.0	47.6	-11.1	37.5	74
1238.000000	35.6	100.0	H	17.0	46.1	-10.5	38.4	74
1572.500000	36.5	100.0	V	343.0	45.6	-9.1	37.5	74
1949.000000	37.3	100.0	H	0.0	45.3	-8.0	36.7	74
2498.500000	47.5	100.0	V	196.0	52.5	-5.0	26.5	74
2302.500000	37.7	100.0	H	106.0	43.7	-6.0	36.3	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1082.000000	26.0	100.0	V	212.0	37.1	-11.1	28.0	54
1238.000000	26.5	100.0	H	17.0	37.0	-10.5	27.5	54
1572.500000	27.0	100.0	V	343.0	36.1	-9.1	27.0	54
1949.000000	27.8	100.0	H	0.0	35.8	-8.0	26.2	54
2498.500000	33.3	100.0	V	196.0	38.3	-5.0	20.7	54
2302.500000	28.2	100.0	H	106.0	34.2	-6.0	25.8	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

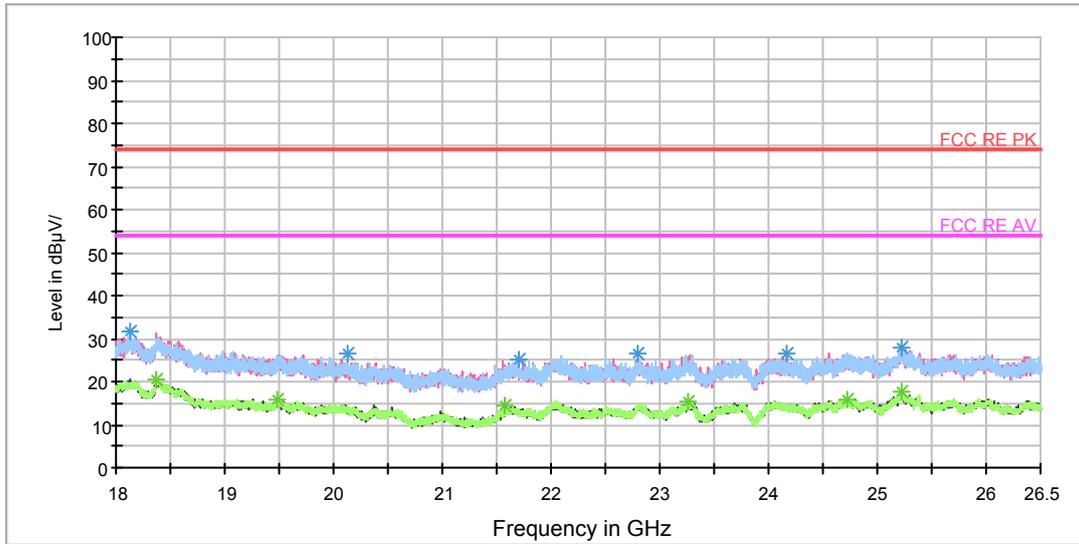
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4001.250000	41.9	101.0	V	58.0	42.4	0.5	32.1	74
4923.750000	51.8	101.0	V	0.0	54.9	3.1	22.2	74
6961.875000	46.8	101.0	V	58.0	53.4	6.6	27.2	74
9761.250000	48.6	101.0	V	176.0	60.4	11.8	25.4	74
13025.625000	53.2	101.0	H	193.0	69.4	16.2	20.8	74
18000.000000	60.7	101.0	V	151.0	86.1	25.4	13.3	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3988.125000	32.3	101.0	H	0.0	32.7	0.4	21.7	54
4921.875000	43.3	101.0	V	0.0	46.4	3.1	10.7	54
6950.625000	37.8	101.0	H	79.0	44.5	6.7	16.2	54
9763.125000	40.2	101.0	H	41.0	52.0	11.8	13.8	54
13102.500000	44.2	101.0	V	351.0	60.3	16.1	9.8	54
17998.125000	52.3	101.0	V	72.0	77.7	25.4	1.7	54

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

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18122.187500	31.5	H	0.0	36.4	-4.9	42.5	74
20129.250000	26.4	H	0.0	35.0	-8.6	47.6	74
21701.750000	25.2	H	0.0	34.5	-9.3	48.8	74
22794.000000	26.4	H	0.0	33.9	-7.5	47.6	74
24175.250000	26.6	V	0.0	34.5	-7.9	47.4	74
25227.125000	27.8	V	0.0	33.7	-5.9	46.2	74

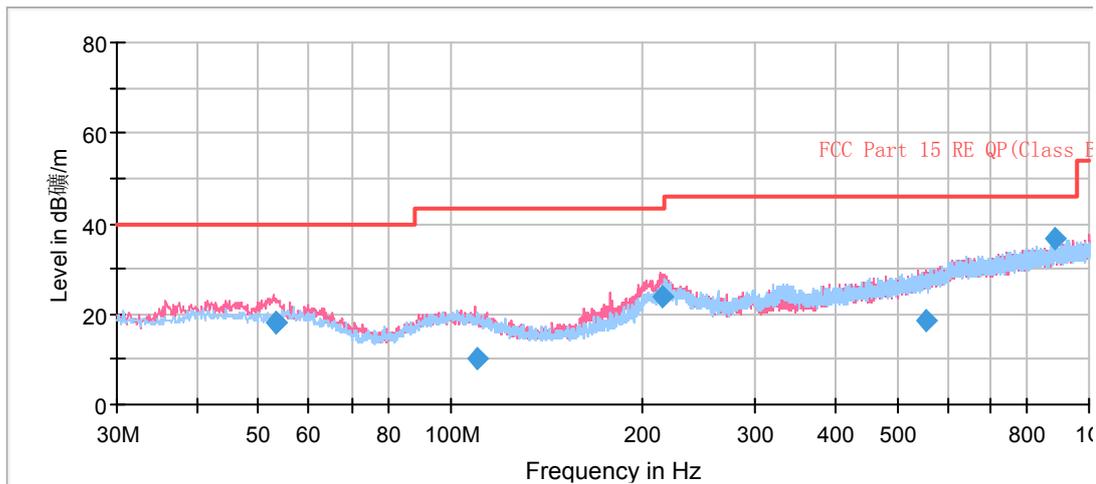
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18379.312500	20.5	H	0.0	25.3	-4.8	33.5	54
19482.187500	15.9	V	0.0	23.6	-7.7	38.1	54
21580.625000	14.3	H	0.0	23.0	-8.7	39.7	54
23264.687500	15.3	V	0.0	22.6	-7.3	38.7	54
24726.687500	15.9	V	0.0	22.1	-6.2	38.1	54
25219.687500	17.9	H	0.0	23.9	-6.0	36.1	54

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



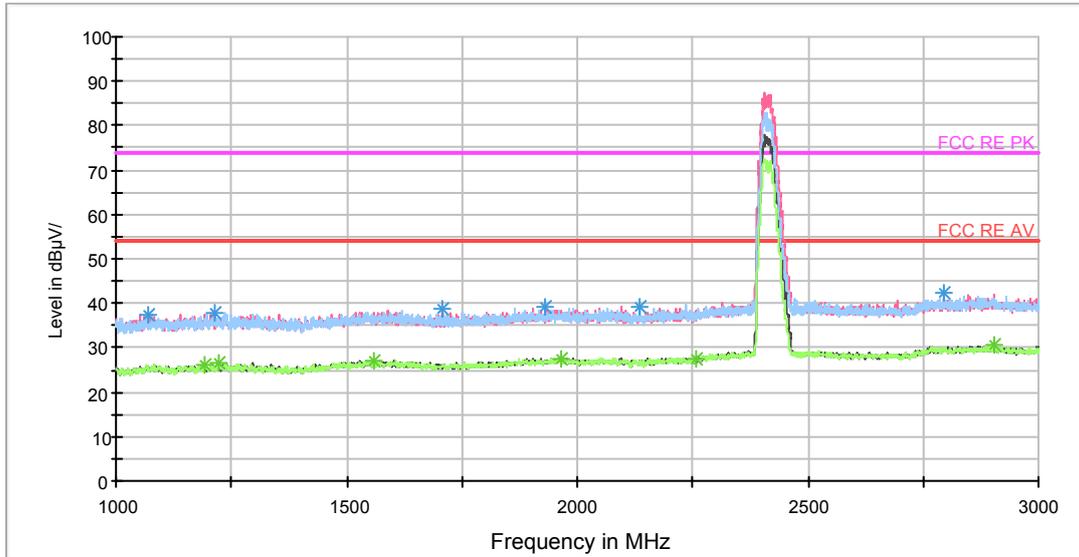
802.11n (HT20) CH1



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)
53.273750	17.9	100.0	V	46.0	30.7	12.8	22.1	40.0
53.326250	18.0	100.0	V	57.0	30.8	12.8	22.0	40.0
109.778750	10.1	100.0	V	353.0	22.5	12.4	33.4	43.5
214.293750	23.6	100.0	V	0.0	36.3	12.7	19.9	43.5
554.695000	18.7	100.0	V	322.0	39.9	21.2	27.3	46.0
883.108750	36.7	100.0	V	180.0	62.1	25.4	9.3	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

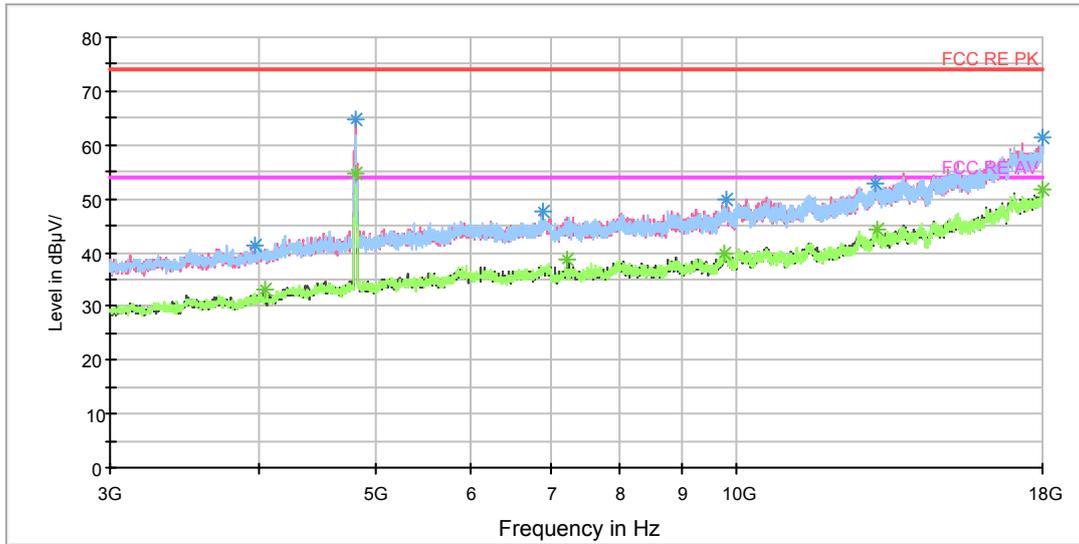
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1192.500000	36.0	100.0	H	350.0	46.7	-10.7	38.0	74
1222.000000	35.5	100.0	V	196.0	46.0	-10.5	38.5	74
1558.500000	35.9	100.0	V	358.0	45.1	-9.2	38.1	74
1963.000000	37.8	100.0	V	122.0	45.7	-7.9	36.2	74
2902.000000	39.7	100.0	H	196.0	43.9	-4.2	34.3	74
2258.000000	37.8	100.0	V	231.0	44.1	-6.3	36.2	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1192.500000	26.3	100.0	H	350.0	37.0	-10.7	27.7	54
1222.000000	26.7	100.0	V	196.0	37.2	-10.5	27.3	54
1558.500000	27.1	100.0	V	358.0	36.3	-9.2	26.9	54
1963.000000	27.7	100.0	V	122.0	35.6	-7.9	26.3	54
2902.000000	30.5	100.0	H	196.0	34.7	-4.2	23.5	54
2258.000000	27.6	100.0	V	231.0	33.9	-6.3	26.4	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

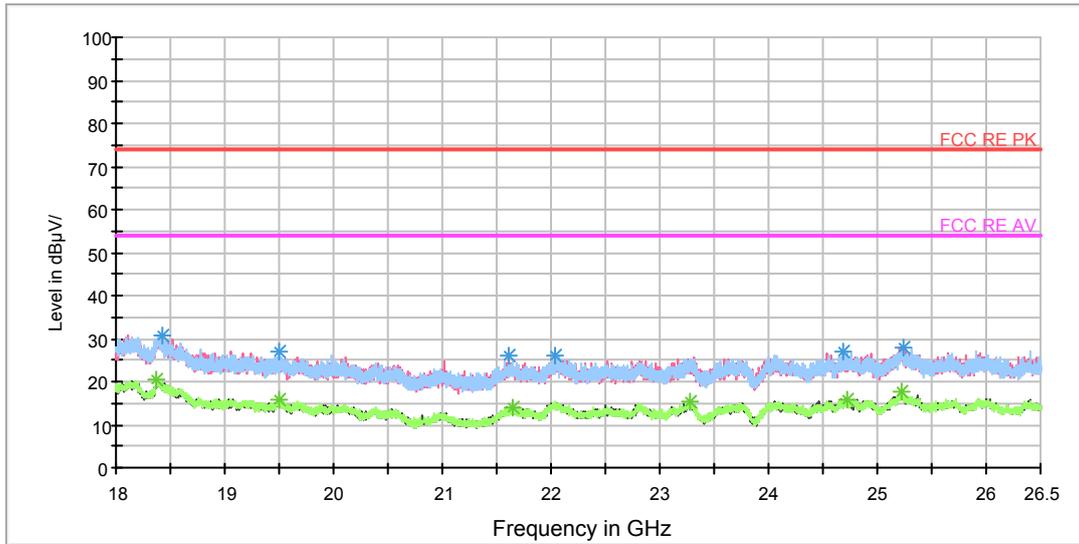
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3963.750000	41.3	101.0	H	20.0	41.5	0.2	32.7	74
4809.375000	64.9	101.0	V	0.0	67.6	2.7	9.1	74
6900.000000	47.7	101.0	V	0.0	54.7	7.0	26.3	74
9795.000000	49.8	101.0	H	20.0	62.0	12.2	24.2	74
13048.125000	53.0	101.0	V	346.0	69.2	16.2	21.0	74
17992.500000	61.3	101.0	V	123.0	86.6	25.3	12.7	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4038.750000	32.9	101.0	H	119.0	33.5	0.6	21.1	54
4809.375000	54.6	101.0	V	0.0	57.3	2.7	-0.6	54
7222.500000	38.8	101.0	V	42.0	47.5	8.7	15.2	54
9751.875000	39.8	101.0	H	44.0	51.5	11.7	14.2	54
13091.250000	44.1	101.0	H	56.0	60.3	16.2	9.9	54
17996.250000	51.6	101.0	V	261.0	77.0	25.4	2.4	54

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

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

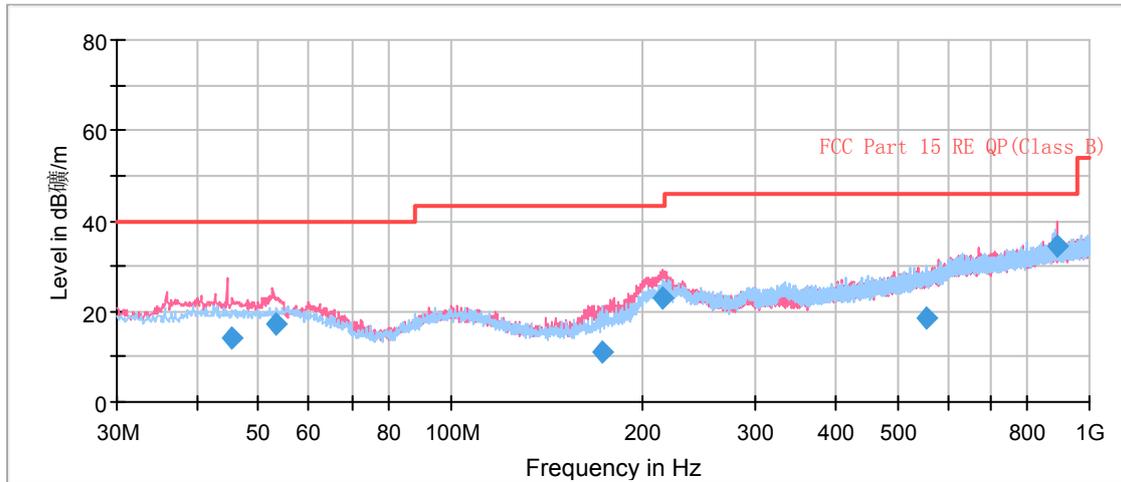
Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18427.125000	30.8	V	0.0	36.1	-5.3	43.2	74
19502.375000	26.8	H	0.0	34.3	-7.5	47.2	74
21602.937500	25.9	V	0.0	34.7	-8.8	48.1	74
22038.562500	26.0	H	0.0	34.0	-8.0	48.0	74
24682.062500	27.0	V	0.0	34.1	-7.1	47.0	74
25233.500000	28.1	H	0.0	34.0	-5.9	45.9	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18375.062500	20.3	V	0.0	25.0	-4.7	33.7	54
19508.750000	16.0	V	0.0	23.5	-7.5	38.0	54
21653.937500	14.1	H	0.0	23.3	-9.2	39.9	54
23276.375000	15.2	H	0.0	22.4	-7.2	38.8	54
24724.562500	15.9	H	0.0	22.1	-6.2	38.1	54
25227.125000	17.8	H	0.0	23.7	-5.9	36.2	54

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

802.11n (HT20) 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)
45.231250	14.2	100.0	V	178.0	27.3	13.1	25.8	40.0
53.286250	17.4	100.0	V	118.0	30.2	12.8	22.6	40.0
173.068750	11.2	100.0	H	300.0	21.7	10.5	32.3	43.5
214.427500	23.1	100.0	V	0.0	35.7	12.6	20.4	43.5
553.997500	18.7	100.0	H	14.0	39.9	21.2	27.3	46.0
888.855000	34.4	100.0	V	118.0	59.9	25.5	11.6	46.0

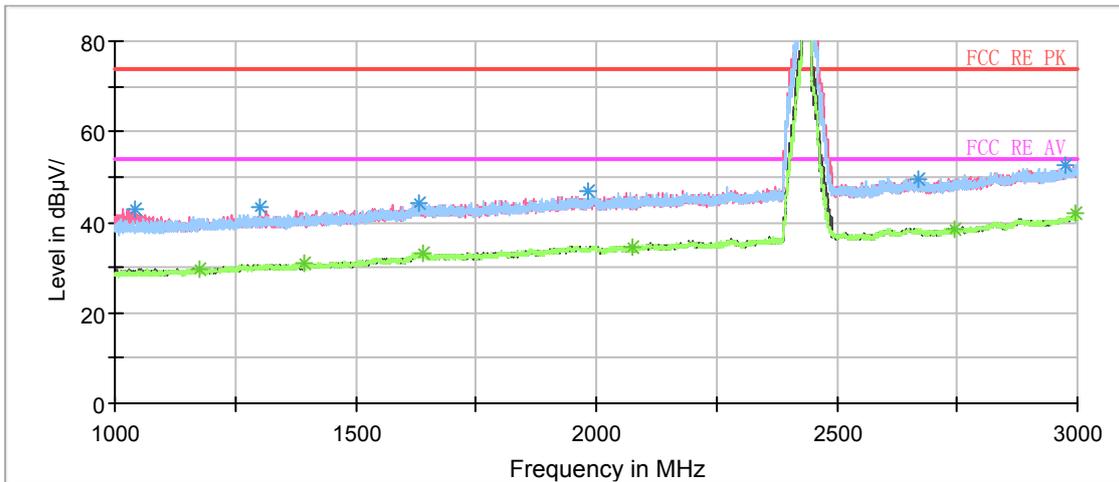
Remark: 1. Quasi-Peak = Reading value + Correction factor

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

3. Margin = Limit – Quasi-Peak



RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

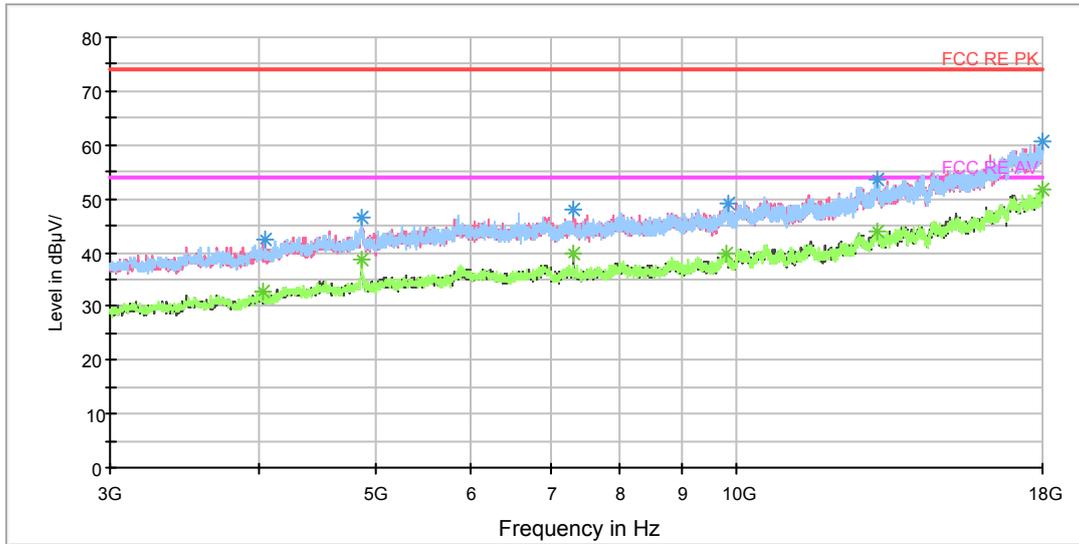
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1043.000000	43.1	100.0	V	54.0	52.1	-9.0	30.9	74
1300.500000	43.1	100.0	H	1.0	51.0	-7.9	30.9	74
1632.250000	44.3	100.0	V	352.0	49.0	-4.7	29.7	74
1983.750000	46.6	100.0	H	69.0	50.4	-3.8	27.4	74
2668.000000	49.5	100.0	H	226.0	49.8	0.3	24.5	74
2976.750000	52.5	100.0	V	280.0	54.7	2.2	21.5	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1176.750000	29.8	100.0	H	0.0	37.8	-8.0	24.2	54
1393.250000	30.9	100.0	H	0.0	37.9	-7.0	23.1	54
1639.000000	33.1	100.0	H	89.0	37.8	-4.7	20.9	54
2073.250000	34.7	100.0	V	233.0	37.8	-3.1	19.3	54
2744.250000	38.4	100.0	H	69.0	39.2	0.8	15.6	54
2996.500000	41.9	100.0	V	345.0	44.2	2.3	12.1	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

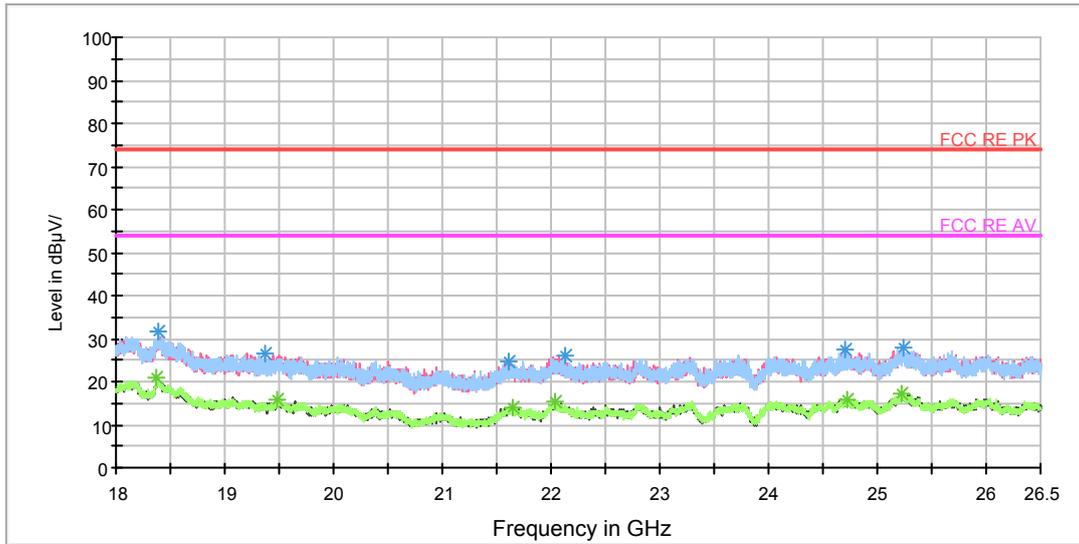
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4036.875000	42.3	101.0	H	17.0	42.9	0.6	31.7	74
4867.500000	46.5	101.0	H	5.0	49.5	3.0	27.5	74
7314.375000	48.0	101.0	V	348.0	56.6	8.6	26.0	74
9845.625000	48.9	101.0	V	323.0	60.7	11.8	25.1	74
13098.750000	53.6	101.0	V	348.0	69.8	16.2	20.4	74
17988.750000	60.7	101.0	V	274.0	86.0	25.3	13.3	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4018.125000	32.8	101.0	H	54.0	33.3	0.5	21.2	54
4863.750000	38.7	101.0	H	5.0	41.6	2.9	15.3	54
7308.750000	39.9	101.0	V	359.0	48.5	8.6	14.1	54
9806.250000	39.9	101.0	H	0.0	52.1	12.2	14.1	54
13085.625000	43.9	101.0	H	129.0	60.1	16.2	10.1	54
18000.000000	51.9	101.0	V	138.0	77.3	25.4	2.1	54

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

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

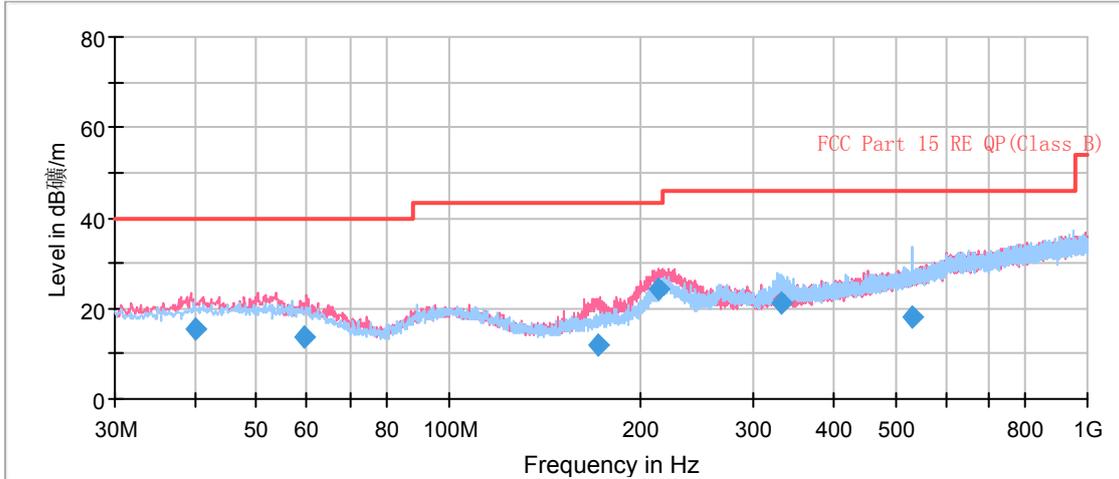
Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18386.750000	31.5	H	0.0	36.3	-4.8	42.5	74
19369.562500	26.5	H	0.0	34.3	-7.8	47.5	74
21613.562500	24.7	V	0.0	33.6	-8.9	49.3	74
22132.062500	25.9	H	0.0	34.4	-8.5	48.1	74
24705.437500	27.2	V	0.0	33.9	-6.7	46.8	74
25233.500000	27.9	V	0.0	33.8	-5.9	46.1	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18369.750000	20.7	V	0.0	25.5	-4.8	33.3	54
19484.312500	16.0	V	0.0	23.7	-7.7	38.0	54
21639.062500	14.2	V	0.0	23.3	-9.1	39.8	54
22042.812500	15.3	H	0.0	23.3	-8.0	38.7	54
24720.312500	15.8	V	0.0	22.1	-6.3	38.2	54
25221.812500	17.4	H	0.0	23.3	-5.9	36.6	54

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

802.11n (HT20) CH11



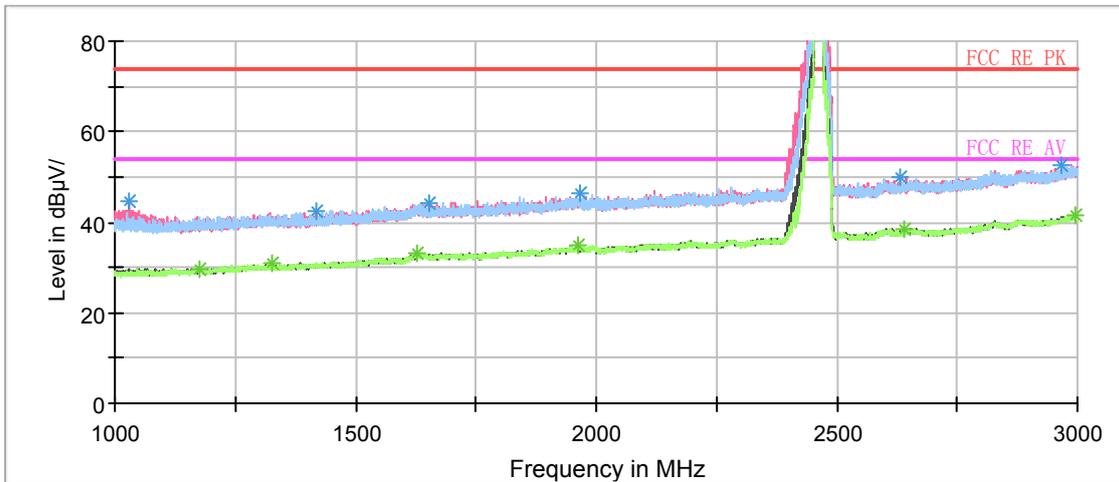
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
40.017500	15.4	100.0	V	0.0	28.6	13.2	24.6	40.0
59.348750	13.7	100.0	V	25.0	26.2	12.5	26.3	40.0
171.423750	12.1	100.0	V	207.0	22.4	10.3	31.4	43.5
213.251250	24.5	100.0	V	0.0	37.1	12.6	19.0	43.5
331.877500	21.4	100.0	H	72.0	37.7	16.3	24.6	46.0
533.388750	18.2	100.0	H	92.0	38.9	20.7	27.8	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



RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

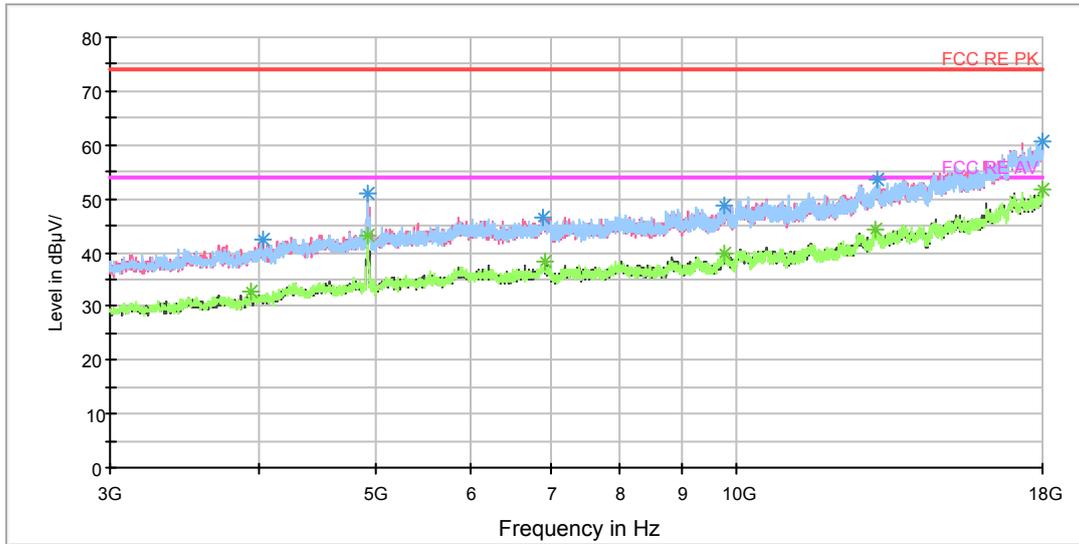
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1029.250000	44.5	100.0	V	350.0	53.6	-9.1	29.5	74
1420.250000	42.6	100.0	V	47.0	49.5	-6.9	31.4	74
1652.750000	44.3	100.0	V	239.0	49.4	-5.1	29.7	74
1966.250000	46.3	100.0	H	211.0	49.7	-3.4	27.7	74
2632.000000	49.9	100.0	H	81.0	49.9	0.0	24.1	74
2964.750000	52.5	100.0	H	67.0	54.6	2.1	21.5	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1177.500000	29.8	100.0	V	188.0	37.8	-8.0	24.2	54
1325.250000	30.9	100.0	H	149.0	38.3	-7.4	23.1	54
1629.500000	33.1	100.0	H	135.0	37.8	-4.7	20.9	54
1961.000000	35.0	100.0	H	61.0	38.2	-3.2	19.0	54
2642.000000	38.6	100.0	V	151.0	38.8	0.2	15.4	54
2995.500000	41.7	100.0	H	48.0	44.0	2.3	12.3	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

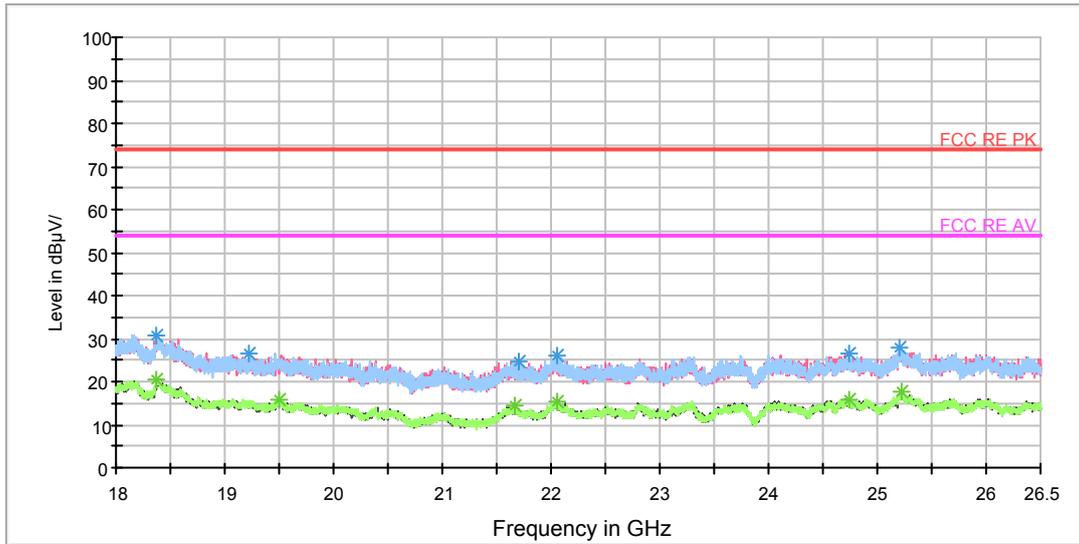
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4020.000000	42.4	101.0	V	0.0	42.9	0.5	31.6	74
4918.125000	50.8	101.0	V	0.0	53.9	3.1	23.2	74
6890.625000	46.7	101.0	H	41.0	53.6	6.9	27.3	74
9765.000000	48.6	101.0	V	256.0	60.4	11.8	25.4	74
13085.625000	53.4	101.0	H	41.0	69.6	16.2	20.6	74
18000.000000	60.7	101.0	V	151.0	86.1	25.4	13.3	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3933.750000	32.9	101.0	V	75.0	32.9	0.0	21.1	54
4918.125000	43.3	101.0	V	0.0	46.4	3.1	10.7	54
6922.500000	38.2	101.0	V	302.0	45.0	6.8	15.8	54
9781.875000	39.9	101.0	V	151.0	52.0	12.1	14.1	54
13078.125000	44.3	101.0	V	139.0	60.5	16.2	9.7	54
17966.250000	51.7	101.0	H	127.0	76.7	25.0	2.3	54

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

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18374.000000	30.7	H	0.0	35.4	-4.7	43.3	74
19217.625000	26.7	H	0.0	33.6	-6.9	47.3	74
21697.500000	24.5	H	0.0	33.8	-9.3	49.5	74
22051.312500	26.1	H	0.0	34.2	-8.1	47.9	74
24739.437500	26.3	H	0.0	32.7	-6.4	47.7	74
25212.250000	27.7	H	0.0	33.9	-6.2	46.3	74

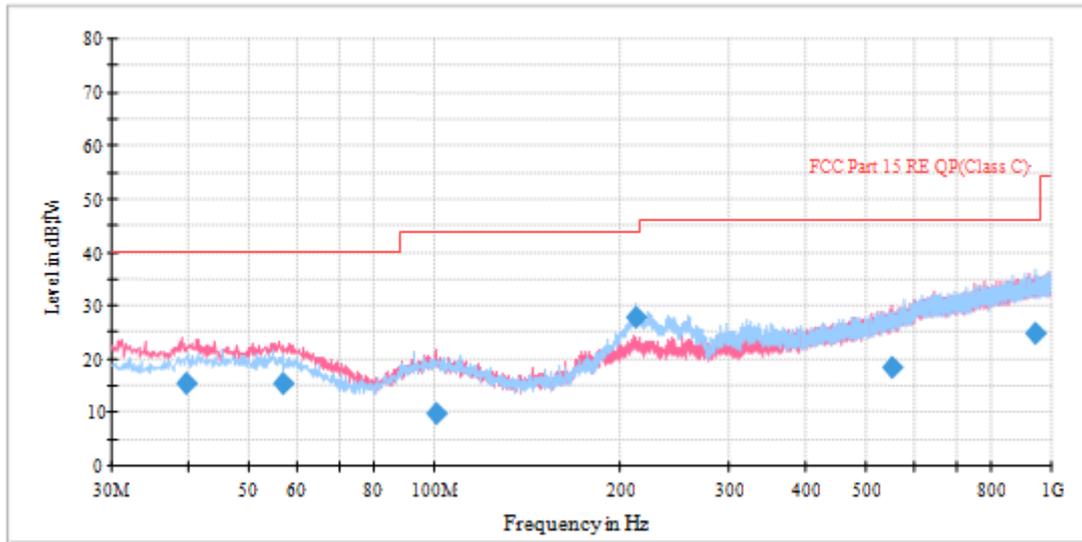
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18377.187500	20.5	V	0.0	25.3	-4.8	33.5	54
19494.937500	15.8	H	0.0	23.4	-7.6	38.2	54
21661.375000	14.2	V	0.0	23.4	-9.2	39.8	54
22053.437500	15.3	V	0.0	23.4	-8.1	38.7	54
24734.125000	15.8	V	0.0	22.1	-6.3	38.2	54
25230.312500	17.4	H	0.0	23.3	-5.9	36.6	54

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

BLE-Channel 0

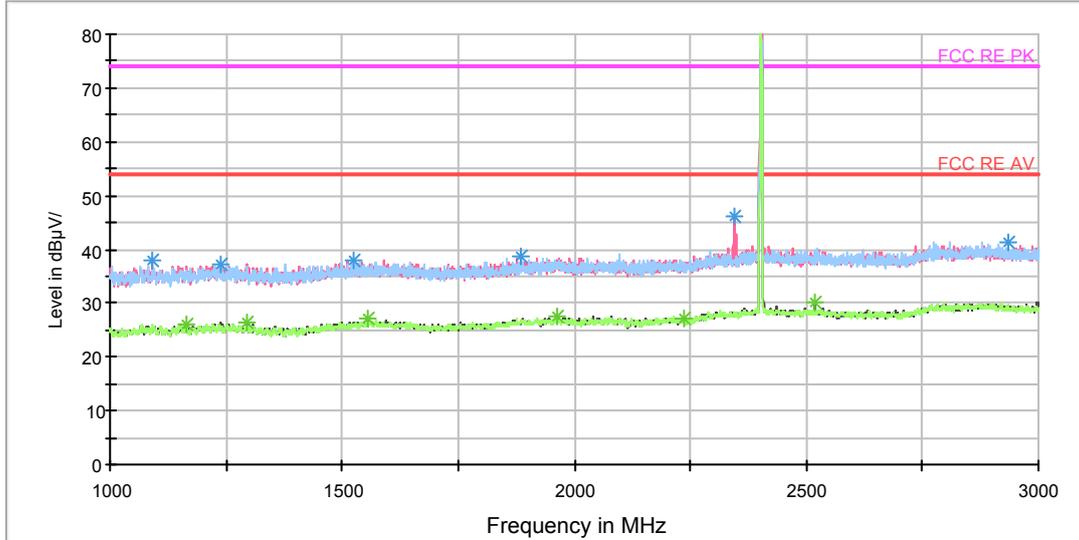
FCC RE 0.03-1GHz QP Class C



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)
39.572500	15.5	100.0	V	0.0	28.6	13.1	24.5	40.0
56.670000	15.2	100.0	V	37.0	27.9	12.7	24.8	40.0
101.046250	9.8	125.0	V	316.0	23.0	13.2	33.7	43.5
212.561250	27.6	125.0	H	111.0	40.2	12.6	15.9	43.5
552.096250	18.4	125.0	V	246.0	39.5	21.1	27.6	46.0
938.936250	25.0	100.0	H	89.0	50.9	25.9	21.0	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



Radiates Emission from 1GHz to 3GHz

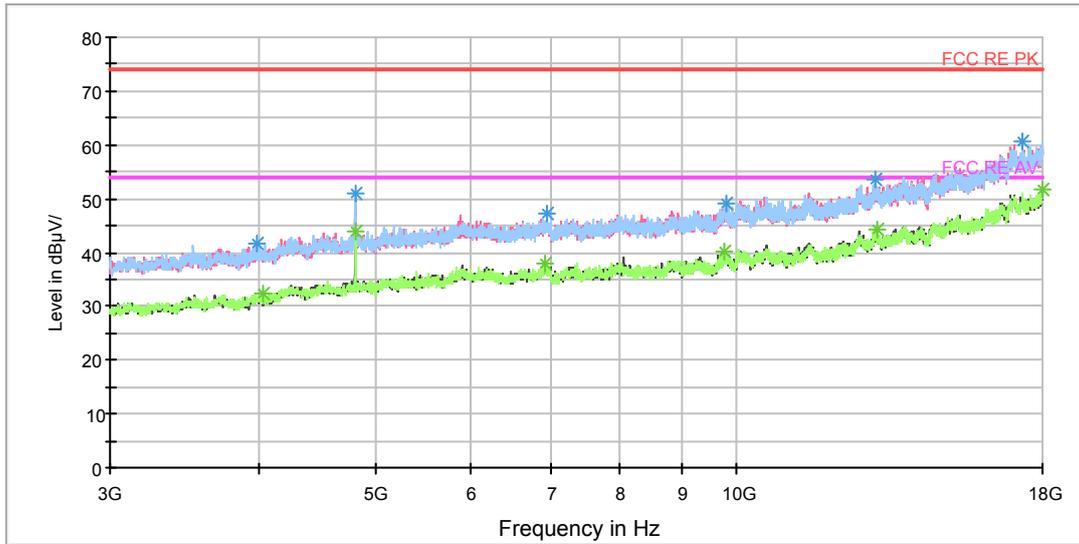
Note: The signal beyond the limit is carrier.

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1092.000000	37.8	100.0	V	93.0	48.8	-11.0	36.2	74
1240.500000	37.3	100.0	H	0.0	47.7	-10.4	36.7	74
1524.000000	38.1	100.0	H	0.0	47.4	-9.3	35.9	74
1886.500000	38.7	100.0	V	350.0	46.8	-8.1	35.3	74
2344.500000	46.0	100.0	V	111.0	51.9	-5.9	28.0	74
2935.500000	41.3	100.0	H	328.0	45.4	-4.1	32.7	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1166.000000	26.1	100.0	H	96.0	36.9	-10.8	27.9	54
1294.500000	26.5	100.0	V	358.0	36.6	-10.1	27.5	54
1555.500000	27.0	100.0	V	225.0	36.2	-9.2	27.0	54
1964.000000	27.6	100.0	V	296.0	35.5	-7.9	26.4	54
2235.000000	27.2	100.0	H	220.0	33.6	-6.4	26.8	54
2520.000000	30.3	100.0	V	211.0	35.2	-4.9	23.7	54

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

RE 3-18GHz PK+AV



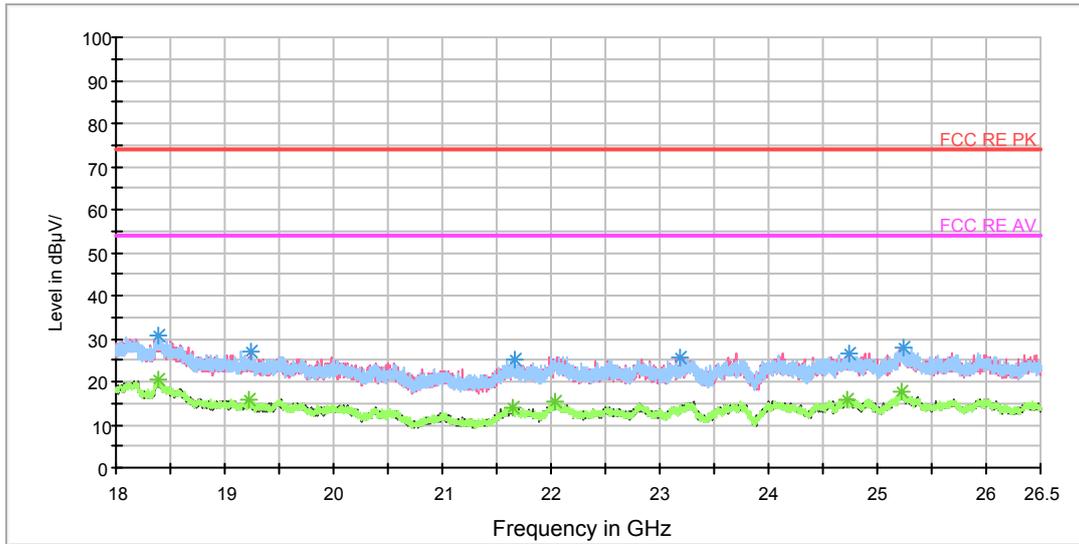
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3976.875000	41.7	101.0	H	0.0	42.0	0.3	32.3	74
4803.750000	51.1	101.0	H	0.0	53.8	2.7	22.9	74
6956.250000	47.1	101.0	V	111.0	53.8	6.7	26.9	74
9815.625000	49.3	101.0	V	0.0	61.4	12.1	24.7	74
13040.625000	53.6	101.0	H	223.0	69.8	16.2	20.4	74
17296.875000	60.6	101.0	H	0.0	84.3	23.7	13.4	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4029.375000	32.4	101.0	H	223.0	33.0	0.6	21.6	54
4803.750000	44.1	101.0	V	0.0	46.8	2.7	9.9	54
6926.250000	38.0	101.0	H	49.0	44.8	6.8	16.0	54
9768.750000	40.2	101.0	H	210.0	52.1	11.9	13.8	54
13087.500000	44.4	101.0	H	0.0	60.6	16.2	9.6	54
17992.500000	51.6	101.0	V	264.0	76.9	25.3	2.4	54

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

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18385.687500	30.7	V	0.0	35.5	-4.8	43.3	74
19244.187500	27.0	V	0.0	33.8	-6.8	47.0	74
21660.312500	25.1	V	0.0	34.3	-9.2	48.9	74
23187.125000	25.7	H	0.0	34.2	-8.5	48.3	74
24737.312500	26.7	V	0.0	33.1	-6.4	47.3	74
25233.500000	28.1	H	0.0	34.0	-5.9	45.9	74

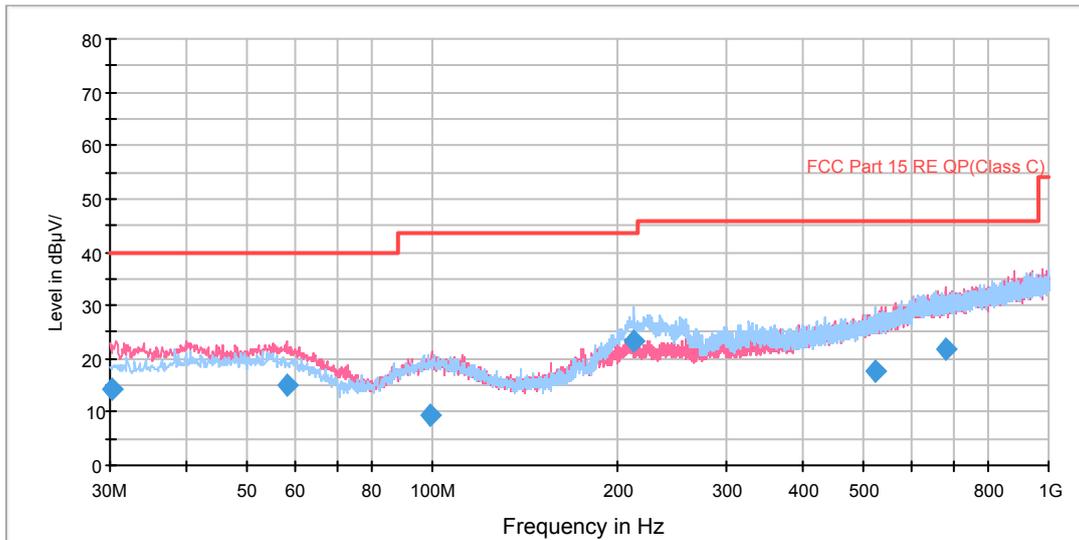
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18382.500000	20.6	V	0.0	25.4	-4.8	33.4	54
19230.375000	15.7	V	0.0	22.5	-6.8	38.3	54
21655.000000	13.9	V	0.0	23.1	-9.2	40.1	54
22034.312500	15.5	H	0.0	23.5	-8.0	38.5	54
24730.937500	16.0	H	0.0	22.2	-6.2	38.0	54
25217.562500	17.8	V	0.0	23.9	-6.1	36.2	54

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



Middle Energy-Channel 19

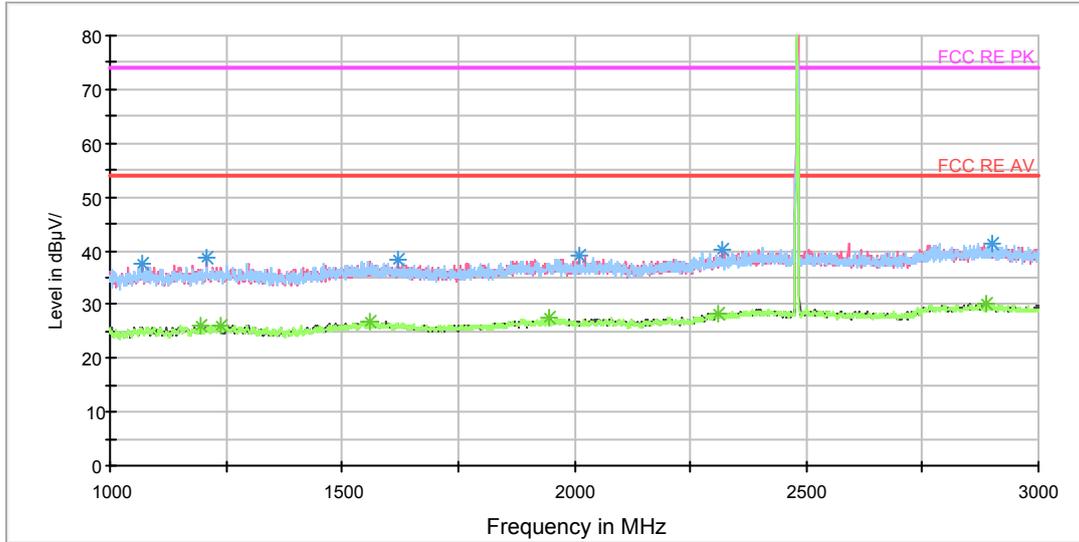
FCC RE 0.03-1GHz QP Class C



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)
30.167500	14.3	100.0	V	80.0	26.2	11.9	25.7	40.0
58.008750	14.9	125.0	V	224.0	27.5	12.6	25.1	40.0
99.118750	9.4	100.0	V	193.0	22.5	13.1	34.1	43.5
212.001250	23.3	125.0	H	101.0	35.9	12.6	20.2	43.5
524.456250	17.8	100.0	H	243.0	38.3	20.5	28.2	46.0
682.562500	21.7	100.0	V	343.0	44.5	22.8	24.3	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



Radiates Emission from 1GHz to 3GHz

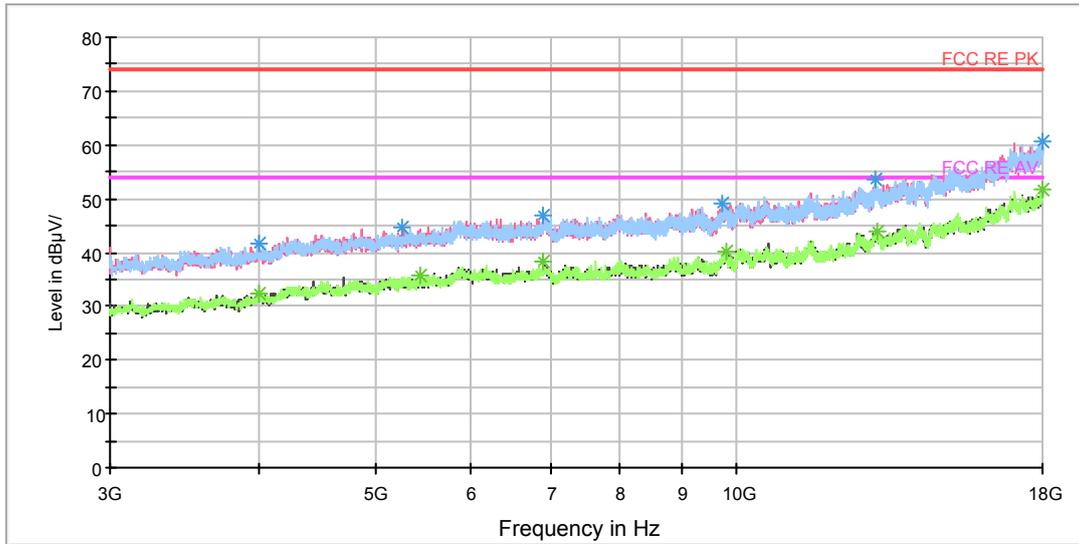
Note: The signal beyond the limit is carrier.

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1069.000000	37.4	100.0	V	313.0	48.5	-11.1	36.6	74
1209.500000	38.7	100.0	V	0.0	49.3	-10.6	35.3	74
1621.000000	38.4	100.0	V	358.0	47.3	-8.9	35.6	74
2010.500000	39.0	100.0	V	355.0	46.7	-7.7	35.0	74
2318.000000	40.0	100.0	V	210.0	46.0	-6.0	34.0	74
2901.000000	41.4	100.0	H	10.0	45.6	-4.2	32.6	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1195.000000	26.1	100.0	V	298.0	36.8	-10.7	27.9	54
1239.500000	26.1	100.0	H	17.0	36.5	-10.4	27.9	54
1559.500000	26.8	100.0	V	160.0	36.0	-9.2	27.2	54
1945.000000	27.5	100.0	V	227.0	35.5	-8.0	26.5	54
2309.500000	28.4	100.0	H	84.0	34.4	-6.0	25.6	54
2887.500000	30.0	100.0	H	181.0	34.2	-4.2	24.0	54

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

RE 3-18GHz PK+AV



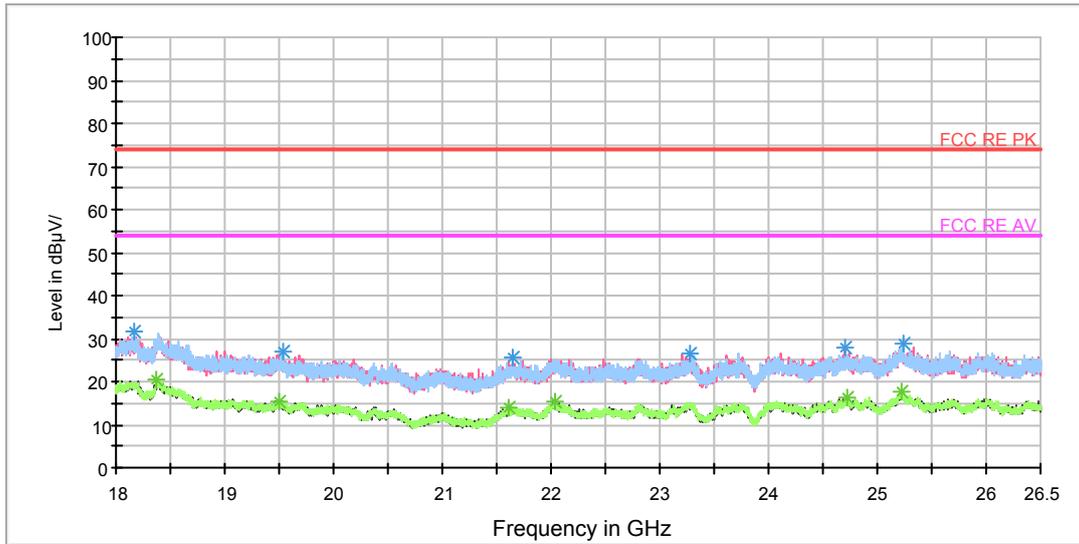
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3991.875000	41.8	101.0	H	0.0	42.2	0.4	32.2	74
5266.875000	44.6	101.0	V	178.0	48.3	3.7	29.4	74
6905.625000	46.7	101.0	H	197.0	53.6	6.9	27.3	74
9720.000000	49.0	101.0	H	71.0	60.3	11.3	25.0	74
13048.125000	53.4	101.0	H	0.0	69.6	16.2	20.6	74
17998.125000	60.6	101.0	V	178.0	86.0	25.4	13.4	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3999.375000	32.4	101.0	H	171.0	32.9	0.5	21.6	54
5439.375000	35.6	101.0	V	0.0	39.4	3.8	18.4	54
6901.875000	38.1	101.0	V	280.0	45.1	7.0	15.9	54
9813.750000	40.2	101.0	V	304.0	52.3	12.1	13.8	54
13091.250000	43.9	101.0	H	0.0	60.1	16.2	10.1	54
17994.375000	51.7	101.0	H	287.0	77.0	25.3	2.3	54

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

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18161.500000	31.5	H	0.0	36.6	-5.1	42.5	74
19545.937500	26.9	H	0.0	34.3	-7.4	47.1	74
21656.062500	25.5	H	0.0	34.7	-9.2	48.5	74
23275.312500	26.3	V	0.0	33.5	-7.2	47.7	74
24694.812500	27.8	V	0.0	34.7	-6.9	46.2	74
25239.875000	28.7	H	0.0	34.9	-6.2	45.3	74

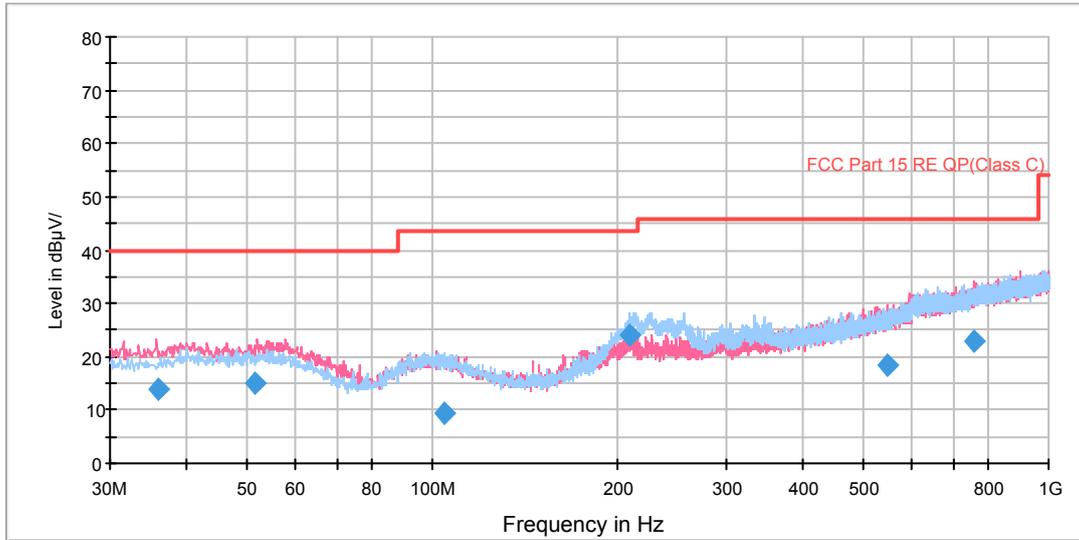
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18370.812500	20.4	H	0.0	25.5	-5.1	33.6	54
19493.875000	15.6	V	0.0	23.0	-7.4	38.4	54
21609.312500	14.0	H	0.0	23.2	-9.2	40.0	54
22034.312500	15.3	H	0.0	22.5	-7.2	38.7	54
24729.875000	16.1	V	0.0	23.0	-6.9	37.9	54
25216.500000	17.7	H	0.0	23.9	-6.2	36.3	54

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



High Energy-Channel 39

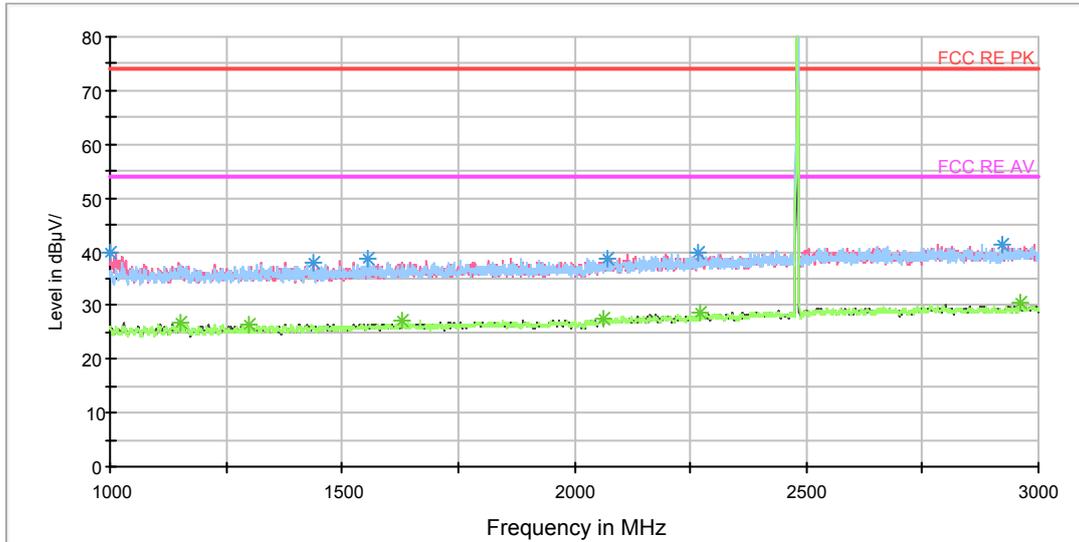
FCC RE 0.03-1GHz QP Class C



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)
35.978750	13.9	100.0	V	343.0	26.0	12.1	26.1	40.0
51.487500	14.9	100.0	V	22.0	27.8	12.9	25.1	40.0
104.735000	9.2	100.0	V	284.0	22.0	12.8	34.3	43.5
209.201250	23.9	125.0	H	109.0	36.3	12.4	19.6	43.5
547.855000	18.2	125.0	V	22.0	39.1	20.9	27.8	46.0
754.593750	22.8	100.0	V	307.0	46.5	23.7	23.2	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



Radiates Emission from 1GHz to 3GHz

Note: The signal beyond the limit is carrier.

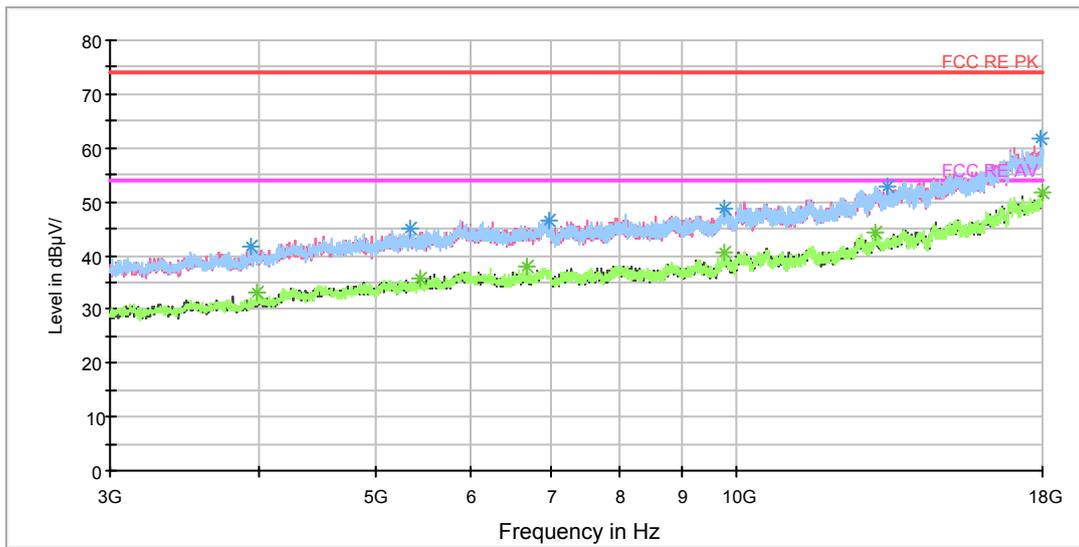
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	40.0	100.0	V	3.0	51.4	-11.4	34.0	74
1437.000000	37.9	100.0	V	298.0	47.6	-9.7	36.1	74
1556.000000	38.6	100.0	H	10.0	47.8	-9.2	35.4	74
2072.000000	38.8	100.0	V	0.0	46.1	-7.3	35.2	74
2268.000000	39.8	100.0	V	357.0	46.0	-6.2	34.2	74
2921.500000	41.4	100.0	H	22.0	45.6	-4.2	32.6	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1150.000000	26.7	100.0	H	16.0	37.5	-10.8	27.3	54
1301.000000	26.6	100.0	V	267.0	36.7	-10.1	27.4	54
1628.500000	27.1	100.0	H	6.0	36.0	-8.9	26.9	54
2063.000000	27.6	100.0	V	72.0	35.0	-7.4	26.4	54
2273.000000	28.7	100.0	V	348.0	34.9	-6.2	25.3	54
2961.000000	30.6	100.0	V	355.0	34.7	-4.1	23.4	54

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



RE 3-18GHz PK+AV



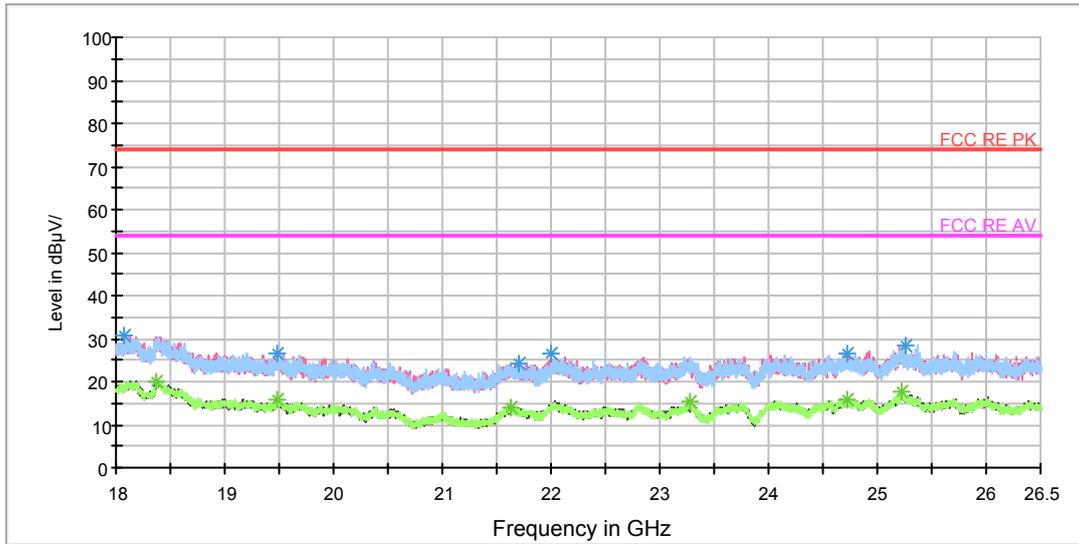
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3931.875000	41.7	101.0	H	116.0	41.7	0.0	32.3	74
5347.500000	44.9	101.0	V	310.0	48.7	3.8	29.1	74
6965.625000	46.6	101.0	V	249.0	53.2	6.6	27.4	74
9768.750000	48.7	101.0	V	126.0	60.6	11.9	25.3	74
13342.500000	53.0	101.0	V	0.0	68.7	15.7	21.0	74
17936.250000	61.6	101.0	H	0.0	86.3	24.7	12.4	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3984.375000	33.2	101.0	H	5.0	33.6	0.4	20.8	54
5446.875000	35.6	101.0	V	285.0	39.4	3.8	18.4	54
6671.250000	37.8	101.0	H	347.0	43.8	6.0	16.2	54
9768.750000	40.5	101.0	H	0.0	52.4	11.9	13.5	54
13074.375000	44.2	101.0	H	177.0	60.4	16.2	9.8	54
17998.125000	51.8	101.0	V	274.0	77.2	25.4	2.2	54

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

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18077.562500	30.6	H	0.0	36.1	-5.5	43.4	74
19479.000000	26.6	H	0.0	34.4	-7.8	47.4	74
21697.500000	24.4	V	0.0	33.7	-9.3	49.6	74
22006.687500	26.4	V	0.0	34.6	-8.2	47.6	74
24722.437500	26.4	V	0.0	32.6	-6.2	47.6	74
25251.562500	28.4	V	0.0	35.1	-6.7	45.6	74

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18376.125000	20.2	V	0.0	24.9	-4.7	33.8	54
19488.562500	15.8	V	0.0	23.5	-7.7	38.2	54
21638.000000	14.1	H	0.0	23.2	-9.1	39.9	54
23273.187500	15.3	V	0.0	22.5	-7.2	38.7	54
24719.250000	15.9	V	0.0	22.2	-6.3	38.1	54
25219.687500	17.8	V	0.0	23.8	-6.0	36.2	54

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

5.8. Conducted Emission

Ambient condition

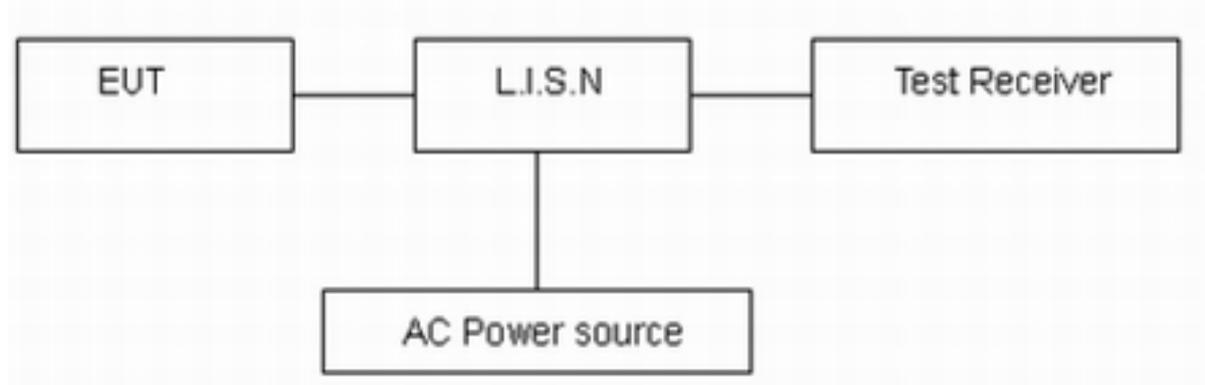
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods 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. The test method is according to ANSI C63.10-2013. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz. The measurement result should include both L line and N line.

The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 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.

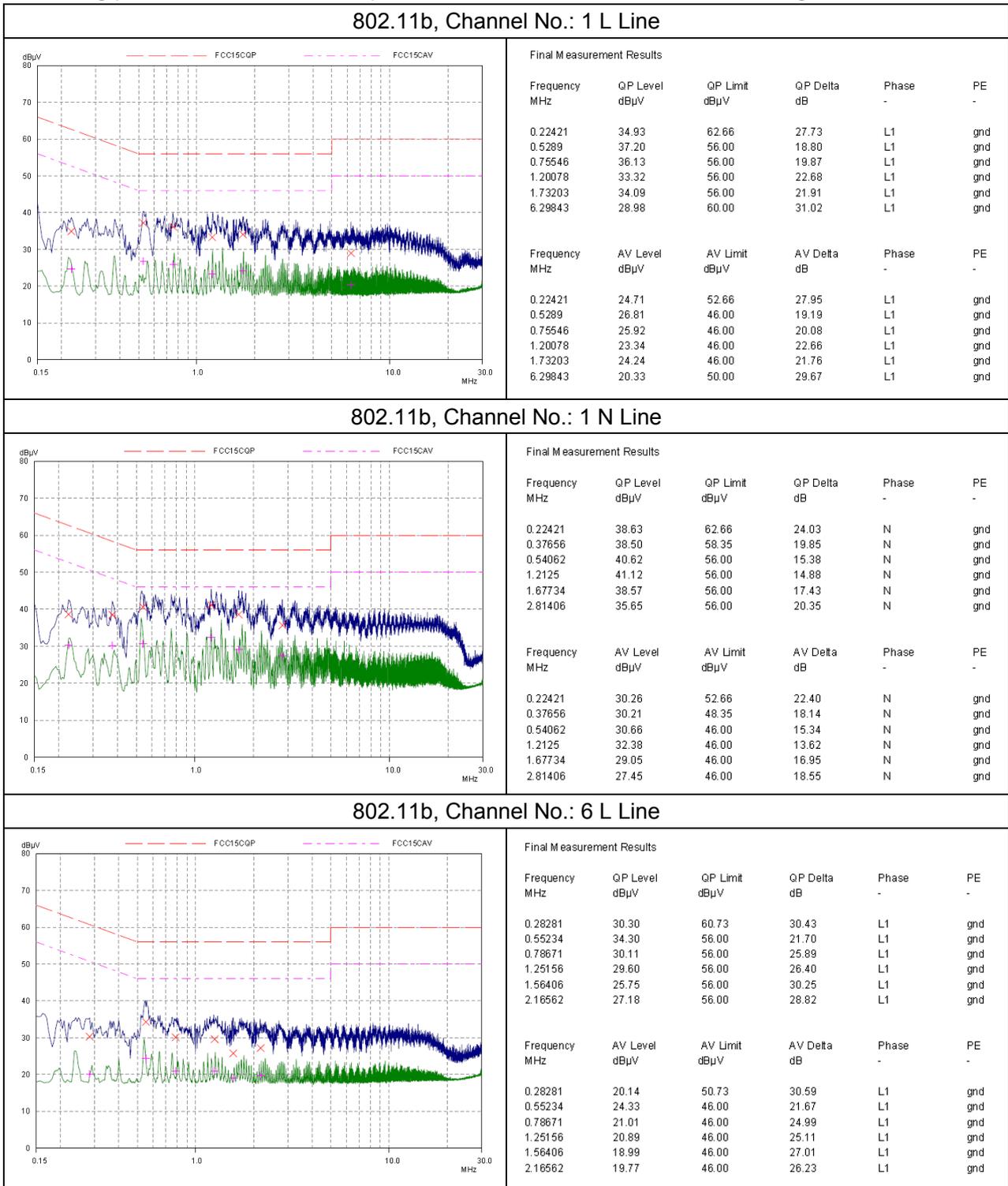
Measurement Uncertainty

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.



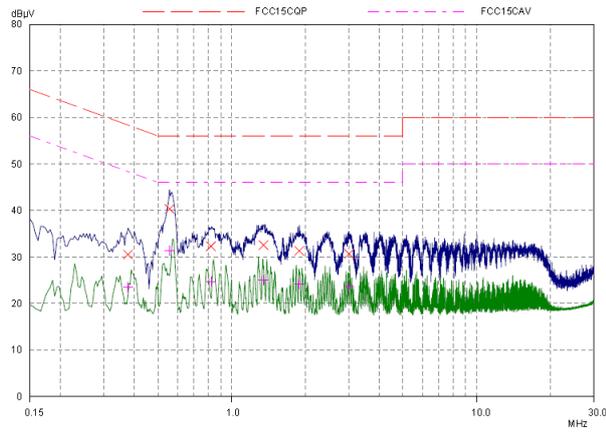
Test Results:

Following plots, Blue trace uses the peak detection, Green trace uses the average detection.





802.11b, Channel No.: 6 N Line

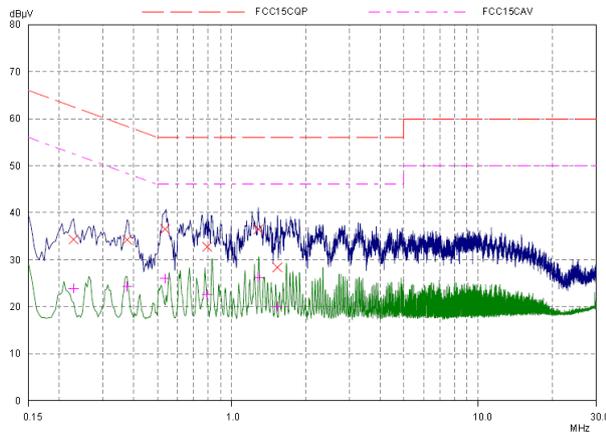


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.37656	30.52	58.35	27.83	N	gnd
0.55625	40.30	56.00	15.70	N	gnd
0.82187	32.29	56.00	23.71	N	gnd
1.34531	32.55	56.00	23.45	N	gnd
1.89437	31.31	56.00	24.69	N	gnd
3.00937	30.66	56.00	25.34	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.37656	23.51	48.35	24.84	N	gnd
0.55625	31.40	46.00	14.60	N	gnd
0.82187	24.71	46.00	21.29	N	gnd
1.34531	25.01	46.00	20.99	N	gnd
1.89437	24.16	46.00	21.84	N	gnd
3.00937	23.60	46.00	22.40	N	gnd

802.11b, Channel No.: 11 L Line

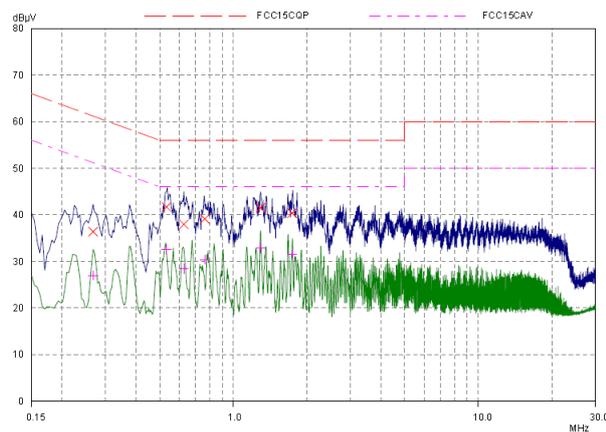


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.22812	34.31	62.52	28.21	L1	gnd
0.37656	34.24	58.35	24.11	L1	gnd
0.53671	36.50	56.00	19.50	L1	gnd
0.79453	32.75	56.00	23.25	L1	gnd
1.28281	36.48	56.00	19.52	L1	gnd
1.53281	28.35	56.00	27.65	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.22812	23.91	52.52	28.61	L1	gnd
0.37656	24.35	48.35	24.00	L1	gnd
0.53671	25.99	46.00	20.01	L1	gnd
0.79453	22.66	46.00	23.34	L1	gnd
1.28281	26.23	46.00	19.77	L1	gnd
1.53281	20.09	46.00	25.91	L1	gnd

802.11b, Channel No.: 11 N Line



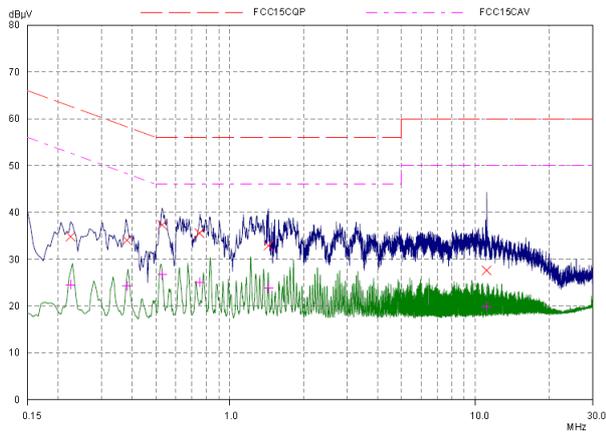
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.26718	36.39	61.21	24.82	N	gnd
0.53281	41.70	56.00	14.30	N	gnd
0.62656	37.97	56.00	18.03	N	gnd
0.76328	39.13	56.00	16.87	N	gnd
1.29062	41.52	56.00	14.48	N	gnd
1.73593	40.35	56.00	15.65	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.26718	26.98	51.21	24.23	N	gnd
0.53281	32.58	46.00	13.42	N	gnd
0.62656	28.48	46.00	17.52	N	gnd
0.76328	30.42	46.00	15.58	N	gnd
1.29062	32.87	46.00	13.13	N	gnd
1.73593	31.60	46.00	14.40	N	gnd



802.11g, Channel No.: 1 L Line

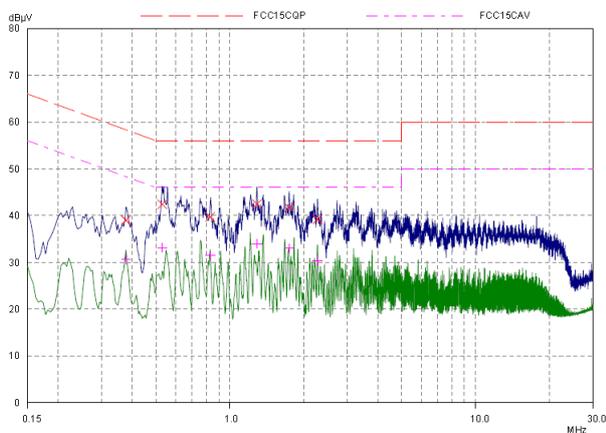


Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.22421	34.83	62.66	27.83	L1	gnd
0.38046	34.06	58.27	24.21	L1	gnd
0.5289	37.32	56.00	18.68	L1	gnd
0.75156	35.57	56.00	20.43	L1	gnd
1.43515	32.87	56.00	23.13	L1	gnd
11.11875	27.59	60.00	32.41	L1	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.22421	24.56	52.66	28.10	L1	gnd
0.38046	24.27	48.27	24.00	L1	gnd
0.5289	26.69	46.00	19.31	L1	gnd
0.75156	25.08	46.00	20.92	L1	gnd
1.43515	23.83	46.00	22.17	L1	gnd
11.11875	19.87	50.00	30.13	L1	gnd

802.11g, Channel No.: 1 N Line

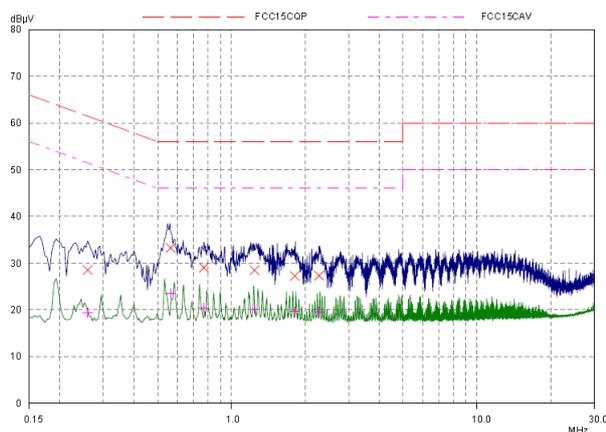


Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.37656	39.02	58.35	19.33	N	gnd
0.5289	42.40	56.00	13.60	N	gnd
0.82968	39.73	56.00	16.27	N	gnd
1.28671	42.46	56.00	13.54	N	gnd
1.73984	41.71	56.00	14.29	N	gnd
2.27109	39.24	56.00	16.76	N	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.37656	30.68	48.35	17.67	N	gnd
0.5289	33.12	46.00	12.88	N	gnd
0.82968	31.46	46.00	14.54	N	gnd
1.28671	33.98	46.00	12.02	N	gnd
1.73984	33.00	46.00	13.00	N	gnd
2.27109	30.35	46.00	15.65	N	gnd

802.11g, Channel No.: 6 L Line



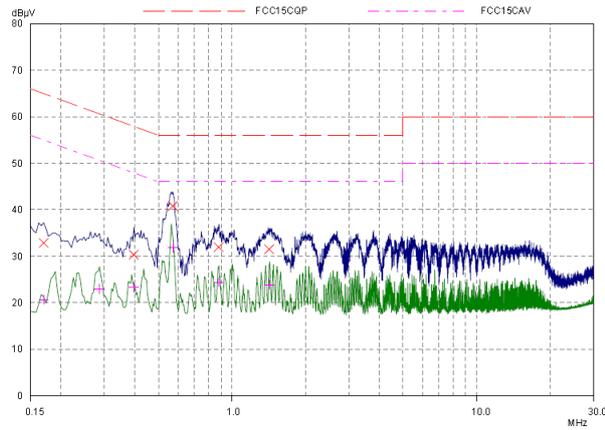
Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.25937	28.53	61.45	32.92	L1	gnd
0.56406	33.24	56.00	22.76	L1	gnd
0.77109	29.03	56.00	26.97	L1	gnd
1.23984	28.48	56.00	27.52	L1	gnd
1.81015	27.23	56.00	28.77	L1	gnd
2.27109	27.32	56.00	28.68	L1	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.25937	19.41	51.45	32.04	L1	gnd
0.56406	23.49	46.00	22.51	L1	gnd
0.77109	20.41	46.00	25.59	L1	gnd
1.23984	20.15	46.00	25.85	L1	gnd
1.81015	19.63	46.00	26.37	L1	gnd
2.27109	19.57	46.00	26.43	L1	gnd



802.11g, Channel No.: 6 N Line

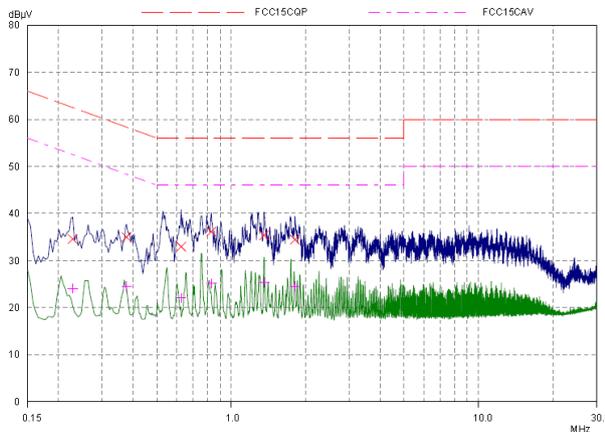


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.16953	32.86	64.98	32.12	N	gnd
0.39609	30.32	57.93	27.61	N	gnd
0.57187	40.80	56.00	15.20	N	gnd
0.88046	31.95	56.00	24.05	N	gnd
1.41562	31.49	56.00	24.51	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.16953	20.64	54.98	34.34	N	gnd
0.28671	22.99	50.62	27.63	N	gnd
0.39609	23.34	47.93	24.59	N	gnd
0.57187	31.88	46.00	14.12	N	gnd
0.88046	24.40	46.00	21.60	N	gnd
1.41562	23.91	46.00	22.09	N	gnd

802.11g, Channel No.: 11 L Line

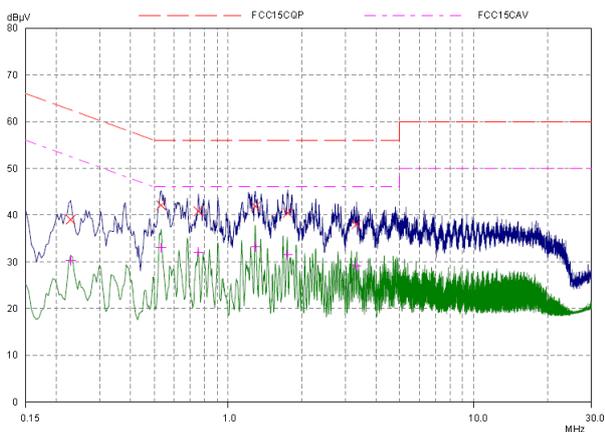


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.22812	34.59	62.52	27.93	L1	gnd
0.37656	35.00	58.35	23.35	L1	gnd
0.62656	32.95	56.00	23.05	L1	gnd
0.82968	36.13	56.00	19.87	L1	gnd
1.35703	35.39	56.00	20.61	L1	gnd
1.81015	34.45	56.00	21.55	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.22812	24.07	52.52	28.45	L1	gnd
0.37656	24.51	48.35	23.84	L1	gnd
0.62656	22.06	46.00	23.94	L1	gnd
0.82968	25.15	46.00	20.85	L1	gnd
1.35703	25.37	46.00	20.63	L1	gnd
1.81015	24.55	46.00	21.45	L1	gnd

802.11g, Channel No.: 11 N Line



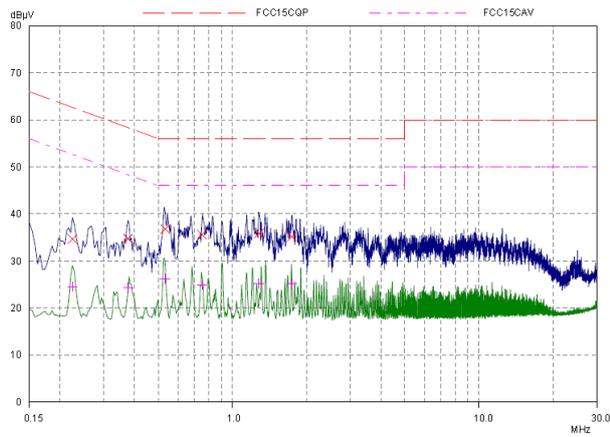
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.22812	39.03	62.52	23.49	N	gnd
0.53281	42.10	56.00	13.90	N	gnd
0.75546	40.83	56.00	15.17	N	gnd
1.29062	41.86	56.00	14.14	N	gnd
1.74765	40.47	56.00	15.53	N	gnd
3.32968	38.02	56.00	17.98	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.22812	30.26	52.52	22.26	N	gnd
0.53281	33.01	46.00	12.99	N	gnd
0.75546	32.13	46.00	13.87	N	gnd
1.29062	33.27	46.00	12.73	N	gnd
1.74765	31.53	46.00	14.47	N	gnd
3.32968	29.18	46.00	16.82	N	gnd



802.11n(HT20), Channel No.: 1 L Line

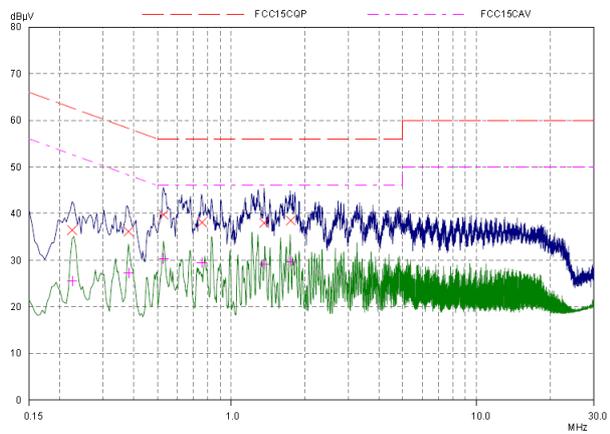


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.22421	34.67	62.66	27.99	L1	gnd
0.37656	34.74	58.35	23.61	L1	gnd
0.53281	36.78	56.00	19.22	L1	gnd
0.75156	35.61	56.00	20.39	L1	gnd
1.2789	35.86	56.00	20.14	L1	gnd
1.73984	35.15	56.00	20.85	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.22421	24.56	52.66	28.10	L1	gnd
0.37656	24.43	48.35	23.92	L1	gnd
0.53281	26.19	46.00	19.81	L1	gnd
0.75156	24.93	46.00	21.07	L1	gnd
1.2789	25.22	46.00	20.78	L1	gnd
1.73984	25.15	46.00	20.85	L1	gnd

802.11n(HT20), Channel No.: 1 N Line

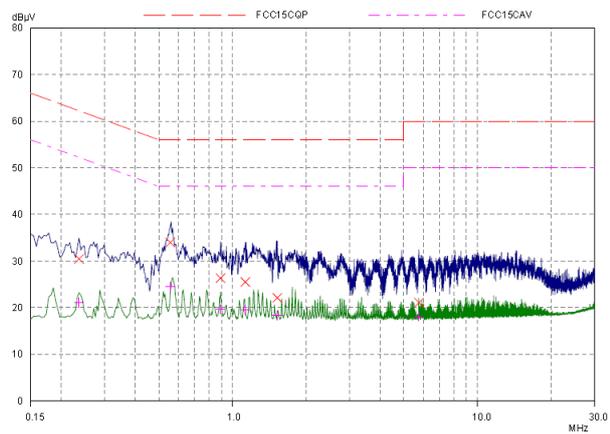


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.22421	36.45	62.66	26.21	N	gnd
0.38046	36.16	58.27	22.11	N	gnd
0.5289	39.78	56.00	16.22	N	gnd
0.75937	38.11	56.00	17.89	N	gnd
1.36093	37.99	56.00	18.01	N	gnd
1.74765	38.51	56.00	17.49	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.22421	25.52	52.66	27.14	N	gnd
0.38046	27.29	48.27	20.98	N	gnd
0.5289	30.35	46.00	15.65	N	gnd
0.75937	29.46	46.00	16.54	N	gnd
1.36093	29.15	46.00	16.85	N	gnd
1.74765	29.68	46.00	16.32	N	gnd

802.11n(HT20), Channel No.: 6 L Line



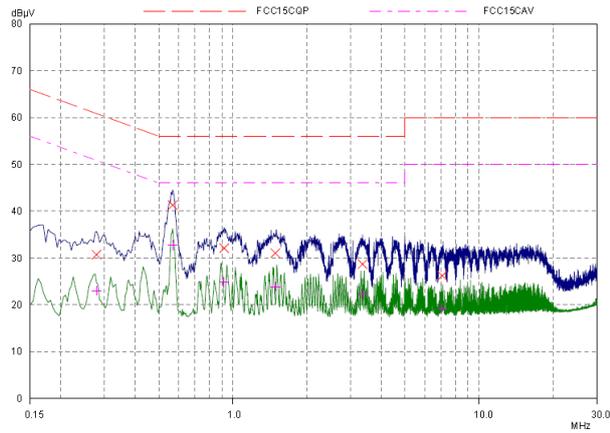
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.23593	30.46	62.24	31.78	L1	gnd
0.55625	33.98	56.00	22.02	L1	gnd
0.89218	26.35	56.00	29.65	L1	gnd
1.12656	25.50	56.00	30.50	L1	gnd
1.52109	22.11	56.00	33.89	L1	gnd
5.76328	21.08	60.00	38.92	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.23593	21.08	52.24	31.16	L1	gnd
0.55625	24.49	46.00	21.51	L1	gnd
0.89218	19.63	46.00	26.37	L1	gnd
1.12656	19.55	46.00	26.45	L1	gnd
1.52109	18.30	46.00	27.70	L1	gnd
5.76328	18.06	50.00	31.94	L1	gnd



802.11n(HT20), Channel No.: 6 N Line

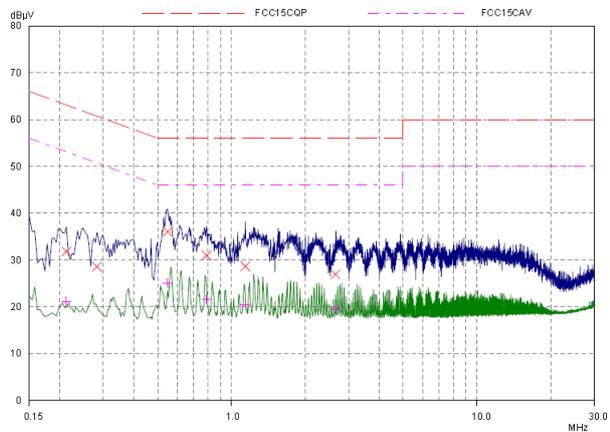


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.2789	30.71	60.85	30.14	N	gnd
0.56796	41.30	56.00	14.70	N	gnd
0.91953	32.09	56.00	23.91	N	gnd
1.48593	31.03	56.00	24.97	N	gnd
3.35703	28.70	56.00	27.30	N	gnd
7.07187	26.22	60.00	33.78	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.2789	23.05	50.85	27.80	N	gnd
0.56796	32.71	46.00	13.29	N	gnd
0.91953	24.86	46.00	21.14	N	gnd
1.48593	23.91	46.00	22.09	N	gnd
3.35703	22.24	46.00	23.76	N	gnd
7.07187	19.26	50.00	30.74	N	gnd

802.11n(HT20), Channel No.: 11 L Line

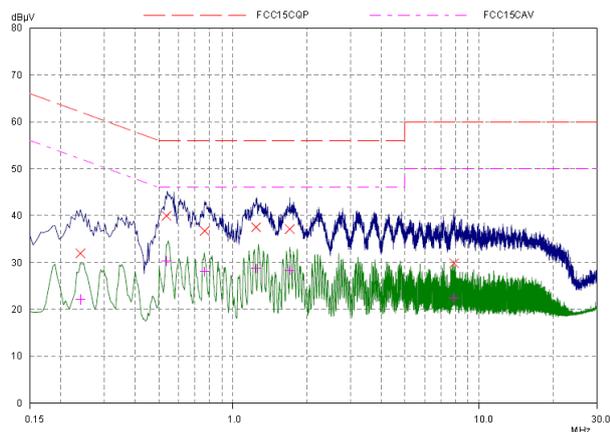


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.2125	31.81	63.11	31.30	L1	gnd
0.28281	28.56	60.73	32.17	L1	gnd
0.54843	36.04	56.00	19.96	L1	gnd
0.79062	30.95	56.00	25.05	L1	gnd
1.13828	28.64	56.00	27.36	L1	gnd
2.65	26.93	56.00	29.07	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.2125	21.15	53.11	31.96	L1	gnd
0.54843	25.09	46.00	20.91	L1	gnd
0.79062	21.52	46.00	24.48	L1	gnd
1.13828	20.46	46.00	25.54	L1	gnd
2.65	19.58	46.00	26.42	L1	gnd

802.11n(HT20), Channel No.: 11 N Line



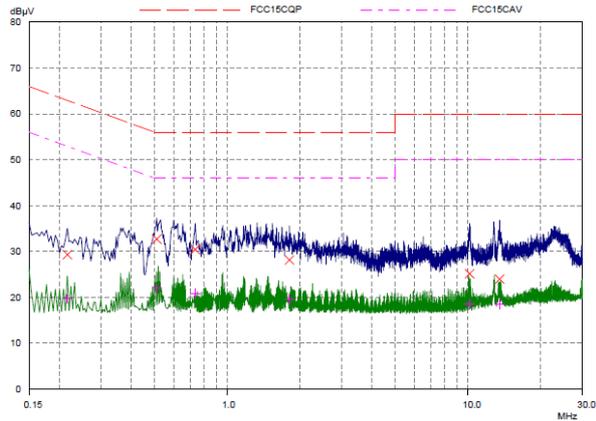
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.23984	31.94	62.10	30.16	N	gnd
0.53671	39.94	56.00	16.06	N	gnd
0.76718	36.73	56.00	19.27	N	gnd
1.23984	37.52	56.00	18.48	N	gnd
1.70078	37.13	56.00	18.87	N	gnd
7.9039	29.84	60.00	30.16	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.23984	22.13	52.10	29.97	N	gnd
0.53671	30.35	46.00	15.65	N	gnd
0.76718	28.02	46.00	17.98	N	gnd
1.23984	28.71	46.00	17.29	N	gnd
1.70078	28.33	46.00	17.67	N	gnd
7.9039	22.46	50.00	27.54	N	gnd



BLE, Channel No.: 0 L Line

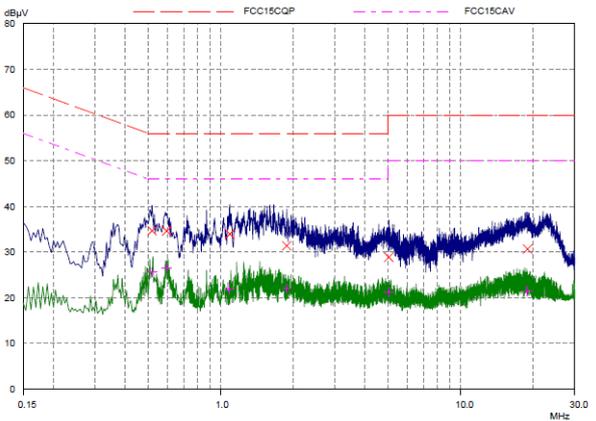


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.2164	29.29	62.96	33.67	L1	gnd
0.50937	32.68	56.00	23.32	L1	gnd
0.73593	30.43	56.00	25.57	L1	gnd
1.81406	28.13	56.00	27.87	L1	gnd
10.16953	25.14	60.00	34.86	L1	gnd
13.55625	23.96	60.00	36.04	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.2164	19.71	52.96	33.25	L1	gnd
0.50937	22.01	46.00	23.99	L1	gnd
0.73593	20.84	46.00	25.16	L1	gnd
1.81406	19.56	46.00	26.44	L1	gnd
10.16953	18.51	50.00	31.49	L1	gnd
13.55625	18.47	50.00	31.53	L1	gnd

BLE, Channel No.: 0 N Line

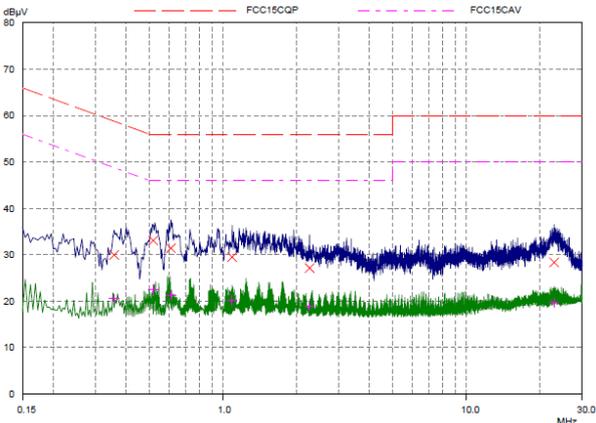


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.51718	34.64	56.00	21.36	N	gnd
0.59531	34.62	56.00	21.38	N	gnd
1.0914	33.94	56.00	22.06	N	gnd
1.88828	31.39	56.00	24.61	N	gnd
5.025	28.88	60.00	31.12	N	gnd
19.04453	30.65	60.00	29.35	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.51718	25.59	46.00	20.41	N	gnd
0.59531	26.44	46.00	19.56	N	gnd
1.0914	21.89	46.00	24.11	N	gnd
1.88828	22.00	46.00	24.00	N	gnd
5.025	21.26	50.00	28.74	N	gnd
19.04453	21.44	50.00	28.56	N	gnd

BLE, Channel No.: 19 L Line



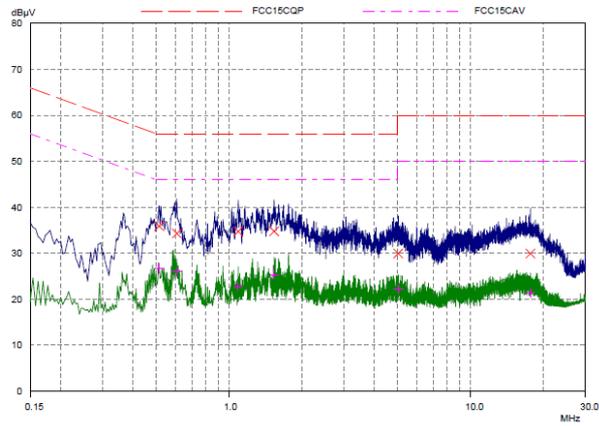
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.35703	29.98	58.80	28.82	L1	gnd
0.51718	33.08	56.00	22.92	L1	gnd
0.61093	31.42	56.00	24.58	L1	gnd
1.0914	29.48	56.00	26.52	L1	gnd
2.27109	27.14	56.00	28.86	L1	gnd
22.9625	28.35	60.00	31.65	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.35703	20.50	48.80	28.30	L1	gnd
0.51718	22.47	46.00	23.53	L1	gnd
0.61093	21.25	46.00	24.75	L1	gnd
1.0914	20.15	46.00	25.85	L1	gnd
2.27109	19.00	46.00	27.00	L1	gnd
22.9625	19.69	50.00	30.31	L1	gnd



BLE, Channel No.: 19 N Line

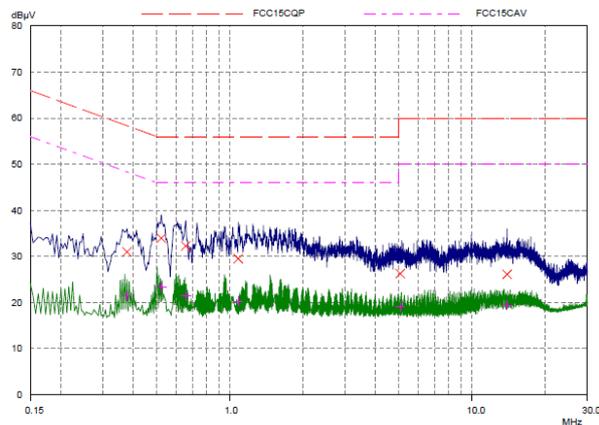


Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.51327	35.88	58.00	20.12	N	gnd
0.60703	34.32	58.00	21.88	N	gnd
1.0914	34.72	58.00	21.28	N	gnd
1.53671	34.77	58.00	21.23	N	gnd
5.02109	29.94	60.00	30.06	N	gnd
17.74375	29.94	60.00	30.06	N	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.51327	28.69	48.00	19.31	N	gnd
0.60703	25.99	48.00	20.01	N	gnd
1.0914	22.79	48.00	23.21	N	gnd
1.53671	25.30	48.00	20.70	N	gnd
5.02109	22.18	50.00	27.82	N	gnd
17.74375	21.35	50.00	28.65	N	gnd

BLE, Channel No.: 39 L Line

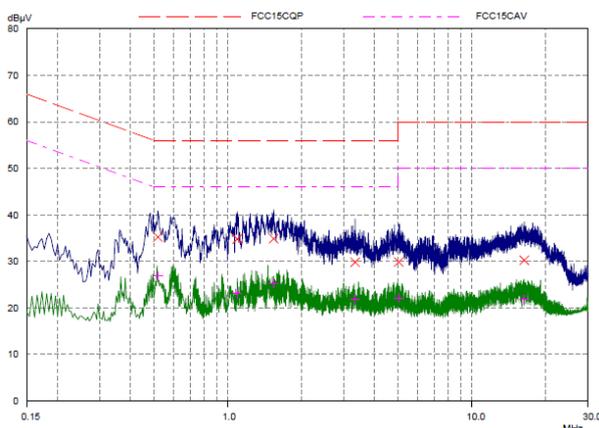


Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.37656	31.00	58.35	27.35	L1	gnd
0.52109	33.86	58.00	22.04	L1	gnd
0.65781	32.27	58.00	23.73	L1	gnd
1.08359	29.50	58.00	28.50	L1	gnd
5.08015	28.27	60.00	33.73	L1	gnd
13.97812	28.10	60.00	33.90	L1	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.37656	21.39	48.35	26.96	L1	gnd
0.52109	23.32	48.00	22.68	L1	gnd
0.65781	21.41	48.00	24.59	L1	gnd
1.08359	20.27	48.00	25.73	L1	gnd
5.08015	19.07	50.00	30.93	L1	gnd
13.97812	19.41	50.00	30.59	L1	gnd

BLE, Channel No.: 39 N Line



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.51718	35.22	58.00	20.78	N	gnd
1.09531	34.80	58.00	21.20	N	gnd
1.54453	34.87	58.00	21.13	N	gnd
3.32578	29.82	58.00	28.18	N	gnd
5.025	29.86	60.00	30.14	N	gnd
16.4039	30.23	60.00	29.77	N	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.51718	28.81	48.00	19.19	N	gnd
1.09531	23.07	48.00	22.93	N	gnd
1.54453	25.30	48.00	20.70	N	gnd
3.32578	21.88	48.00	24.12	N	gnd
5.025	22.13	50.00	27.87	N	gnd
16.4039	21.78	50.00	28.22	N	gnd



6. Main Test Instruments

Name	Type	Manufacturer	Serial Number	Calibration Date	Expiration Time
EMI Test Receiver	ESCI	R&S	100948	2015-05-22	2016-05-21
Loop Antenna	FMZB1519	SCHWARZBECK	1519-047	2014-02-29	2017-02-28
TRILOG Broadband Antenna	VULB 9163	Schwarzbeck	9163-201	2014-12-06	2017-12-05
Double Ridged Waveguide Horn Antenna	HF907	R&S	100126	2014-12-06	2017-12-05
Standard Gain Horn	3160-09	ETS-Lindgren	00102644	2015-01-30	2018-01-29
EMI Test Receiver	ESCS30	R&S	100138	2015-12-17	2016-12-16
LISN	ENV216	R&S	101171	2015-12-18	2016-12-17
Spectrum Analyzer	E4445A	Agilent	MY46181146	2015-05-22	2016-05-21
Spectrum Analyzer	N9010A	Agilent	MY47191109	2015-05-22	2016-05-21
MOB COMMS DC SUPPLY	66319D	Agilent	MY43004105	2015-05-22	2016-05-21
Peak Power Meter	8990B	Agilent	51000109	2015-04-26	2016-04-25
Wideband Power Sensors	N1923A	Agilent	MY51220004	2015-04-26	2016-04-25
Spectrum Analyzer	FSV30	R&S	100815	2015-12-17	2016-12-16
RF Cable	SMA 15cm	Agilent	0001	2015-12-09	2016-02-08

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