



中国认可  
国际互认  
检测  
TESTING  
CNAS L2264

# RF TEST REPORT

<b>Applicant</b>	MobiWire SAS
<b>FCC ID</b>	QPN-HALONA
<b>Product</b>	3G SmartPhone
<b>Brand</b>	Mobiwire
<b>Model</b>	Mobiwire Halona
<b>Report No.</b>	RXA1608-0171RF02
<b>Issue Date</b>	September 6, 2016

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2015)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

*Performed by: Xianqing Li*

*Approved by: Kai Xu*

## TA Technology (Shanghai) Co., Ltd.

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## 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: August 9,2016~ September 6, 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  
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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](mailto:xukai@ta-shanghai.com)

## 2. General Description of Equipment under Test

### Client Information

<b>Applicant</b>	MobiWire SAS
<b>Applicant address</b>	79 AVENUE FRANCOIS ARAGO 92017 NANTERRE CEDEX France
<b>Manufacturer</b>	MOBIWIRE MOBILES (NINGBO) CO.,LTD
<b>Manufacturer address</b>	No.999,Dacheng East Road,Fenghua City,Zhejiang

### Accessory Equipment Details

Name	Model	Manufacturer	Capacity	S/N
Battery	H353F	Ningbo Veken battery Co.,LTD.	1300mAh	VK1603000255
Headset	3.5mm 4-pole plug stereo headset	Shenzhen Juwei Electronics Co.,Ltd	/	/
Charger	A31-500550	Shenzhen Aohai Technology Co.,Ltd	/	/

### General information

Model:	Mobiwire Halona
IMEI:	359805070934731
Hardware Version:	V01A
Software Version:	V01_20160513_Halona_MobiWire_MP
Power Supply:	Battery/AC adapter
Antenna Type:	Internal Antenna
Test Mode:	Bluetooth(Low Energy) 802.11b 802.11g, 802.11n(HT20/HT40);
Modulation Type:	BLE :GFSK 802.11b: DSSS; 802.11g/n(HT20/HT40): OFDM
Max. Conducted Power	Wi-Fi 2.4G :15.916dBm BLE : -1.955dBm
Operating Frequency Range(s)	2400 ~ 2483.5 MHz
<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:

#### Test standards

- **FCC CFR47 Part 15C (2015) Radio Frequency Devices**
- **ANSI C63.10 (2013)**
- **KDB 558074 D01 DTS Meas Guidance v03r05**

## 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
802.11n HT40	MCS0



## 5. Test Case Results

### 5.1. Peak Power Output –Conducted

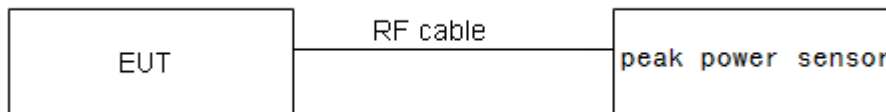
#### Ambient condition

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 peak power meter 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	15.135	30	PASS
	2437	15.634	30	PASS
	2462	15.916	30	PASS
802.11g	2412	12.326	30	PASS
	2437	14.444	30	PASS
	2462	12.440	30	PASS
802.11n HT20	2412	11.255	30	PASS
	2437	13.297	30	PASS
	2462	12.088	30	PASS
802.11n HT40	2422	6.588	30	PASS
	2437	9.733	30	PASS
	2452	7.117	30	PASS
Bluetooth (Low Energy)	2402	-2.414	30	PASS
	2440	-1.955	30	PASS
	2480	-2.762	30	PASS

## 5.2. 6dB Bandwidth

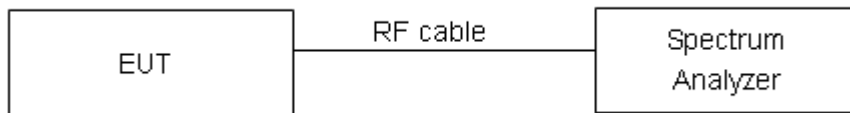
### Ambient condition

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

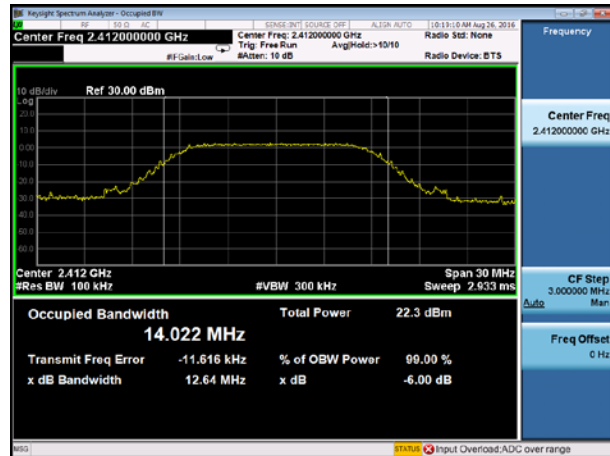
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U = 936$  Hz.

**Test Results:**

Network Standards	Carrier frequency (MHz)	Minimum 6 dB bandwidth (MHz)	Limit(kHz)	Conclusion
802.11b	2412	14.022	500	PASS
	2437	13.894	500	PASS
	2462	13.700	500	PASS
802.11g	2412	16.419	500	PASS
	2437	16.474	500	PASS
	2462	16.427	500	PASS
802.11n HT20	2412	17.604	500	PASS
	2437	17.633	500	PASS
	2462	17.608	500	PASS
802.11n HT40	2422	35.855	500	PASS
	2437	35.845	500	PASS
	2452	35.865	500	PASS
Bluetooth (Low Energy)	2402	0.686	500	PASS
	2440	0.686	500	PASS
	2480	0.698	500	PASS



802.11b, Carrier frequency (MHz): 2412



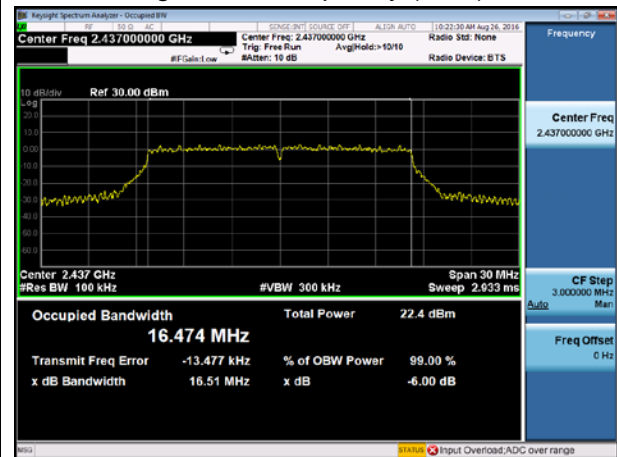
802.11g, Carrier frequency (MHz): 2412



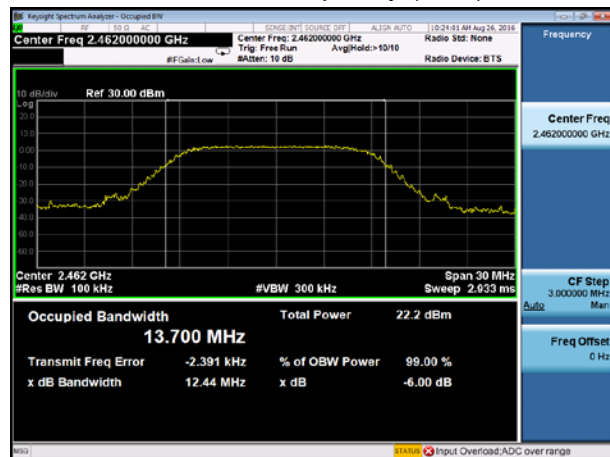
802.11b, Carrier frequency (MHz): 2437



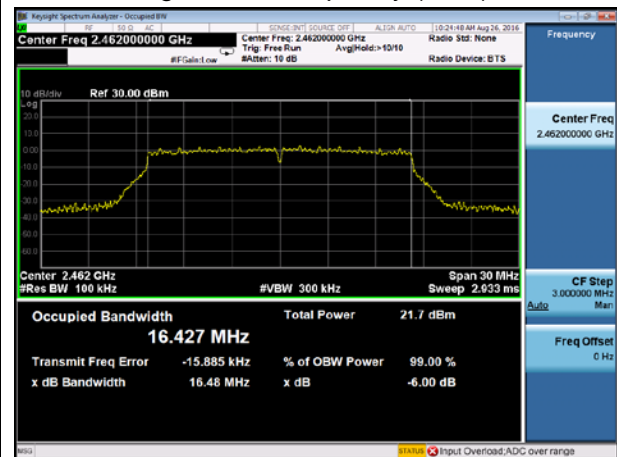
802.11g, Carrier frequency (MHz): 2437



802.11b, Carrier frequency (MHz): 2462

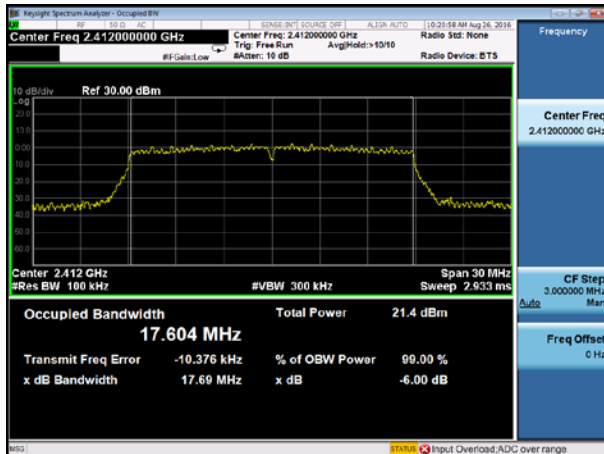


802.11g, Carrier frequency (MHz): 2462

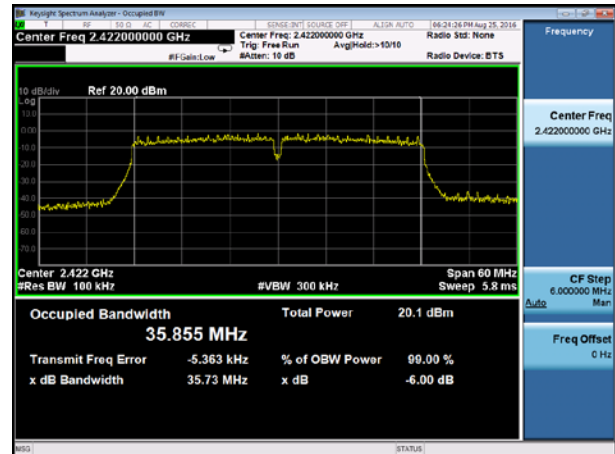




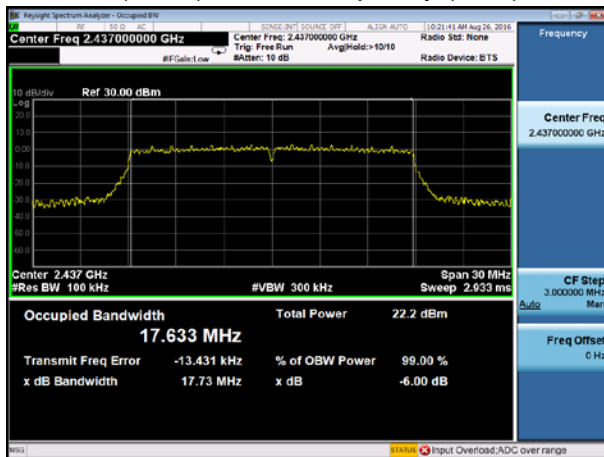
### 802.11n(HT20), Carrier frequency (MHz): 2412



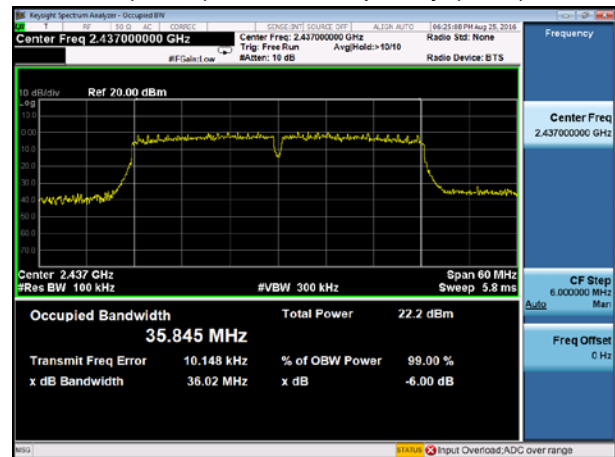
### 802.11n(HT40), Carrier frequency (MHz): 2422



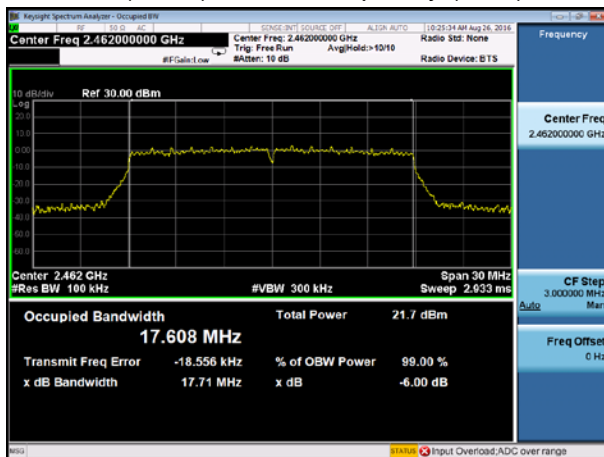
### 802.11n(HT20), Carrier frequency (MHz): 2437



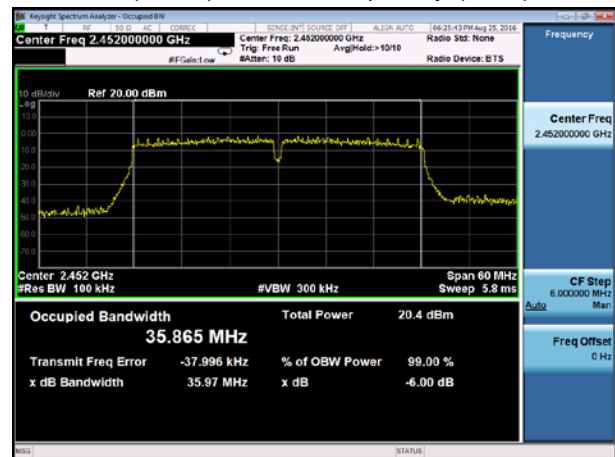
### 802.11n(HT40), Carrier frequency (MHz): 2437



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

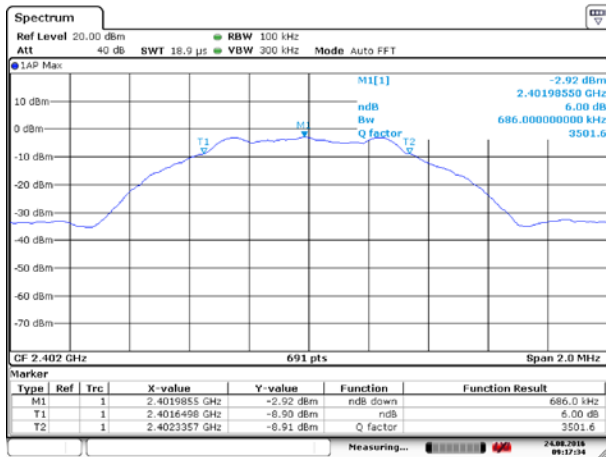


### 802.11n(HT40), Carrier frequency (MHz): 2452



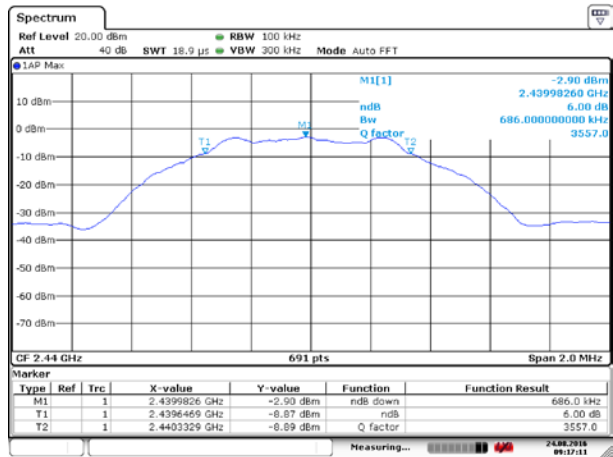


### BLE Carrier frequency (MHz): 2402



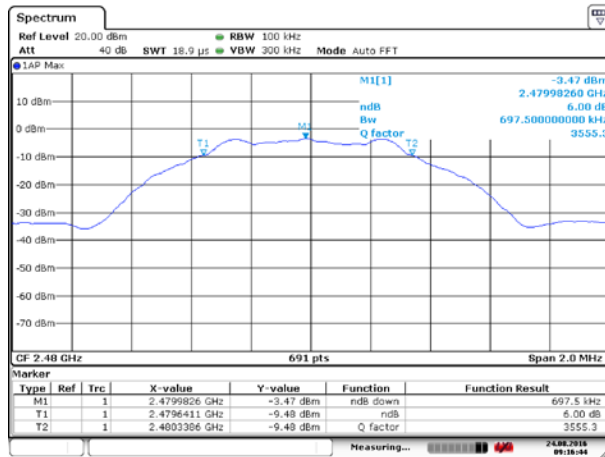
Date: 24 AUG.2016 09:17:34

### BLE Carrier frequency (MHz): 2440



Date: 24 AUG.2016 09:17:11

### BLE Carrier frequency (MHz): 2480



Date: 24 AUG.2016 09:16:44

### 5.3. Band Edge

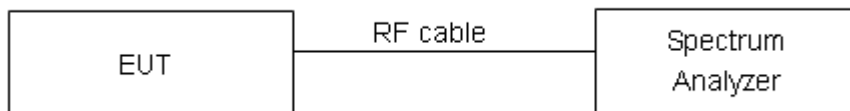
#### Ambient condition

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

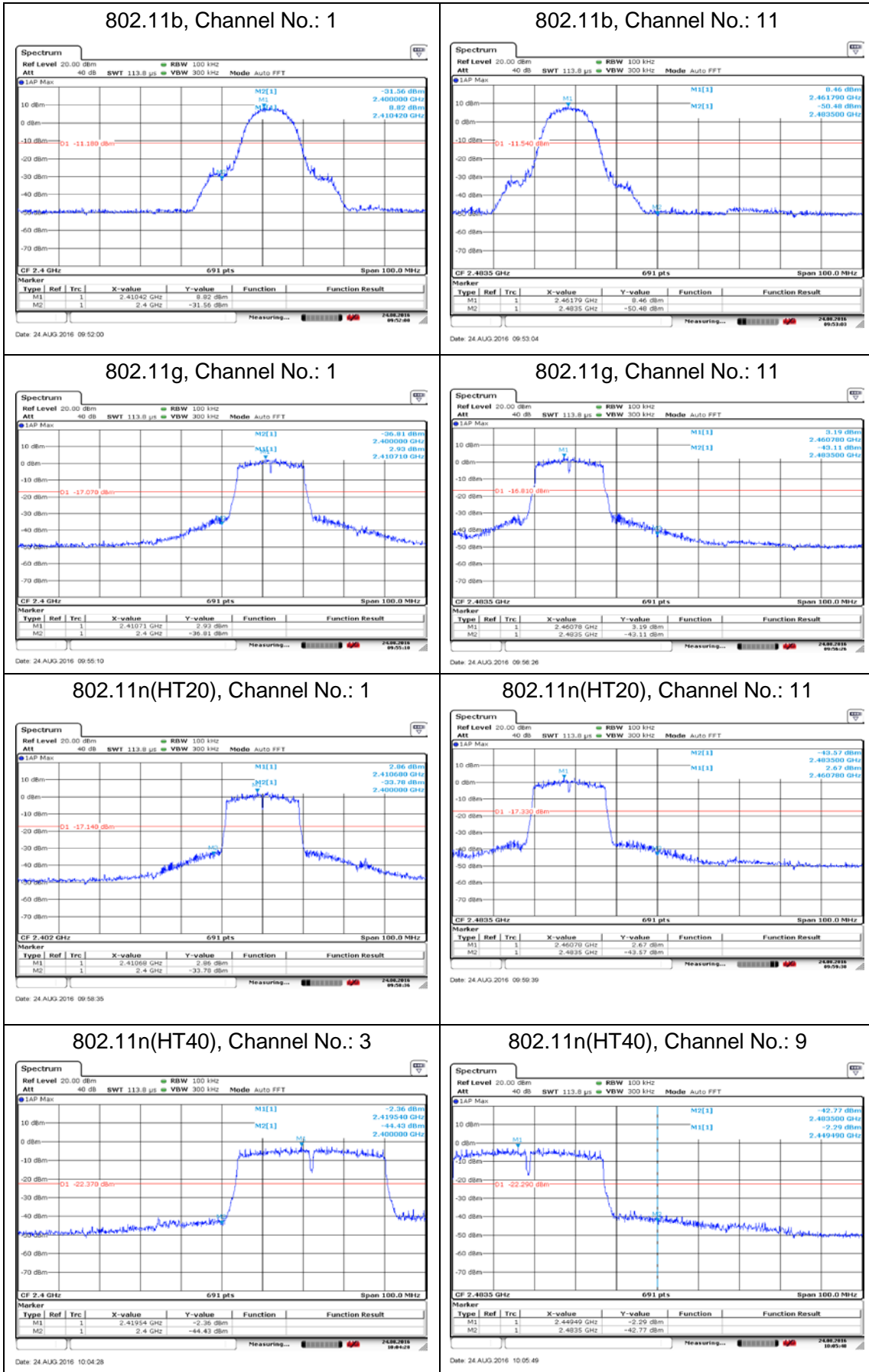
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ .

Frequency	Uncertainty
2GHz-3GHz	1.407 dB



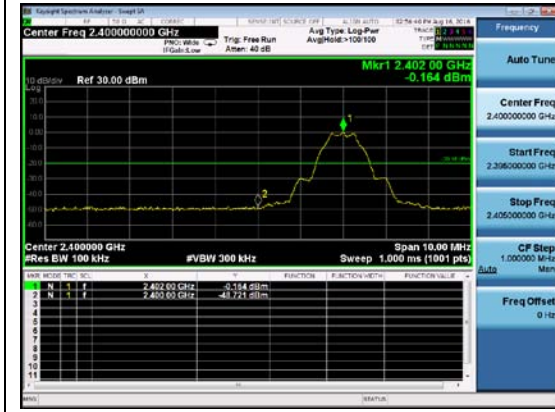


Test Results: PASS

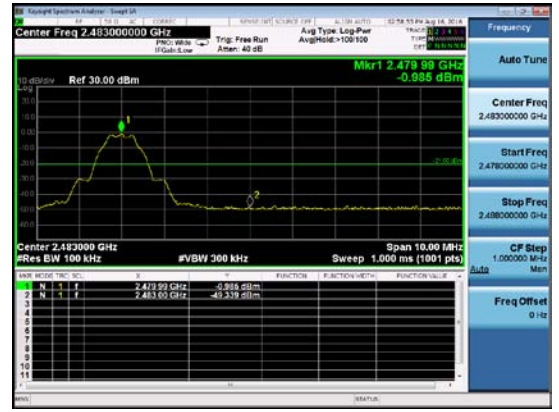




BLE, Channel No.: 0



BLE, Channel No.: 39



### 5.4. Power Spectral Density

#### Ambient condition

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

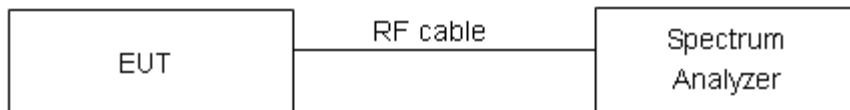
#### Method of Measurement

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. ”

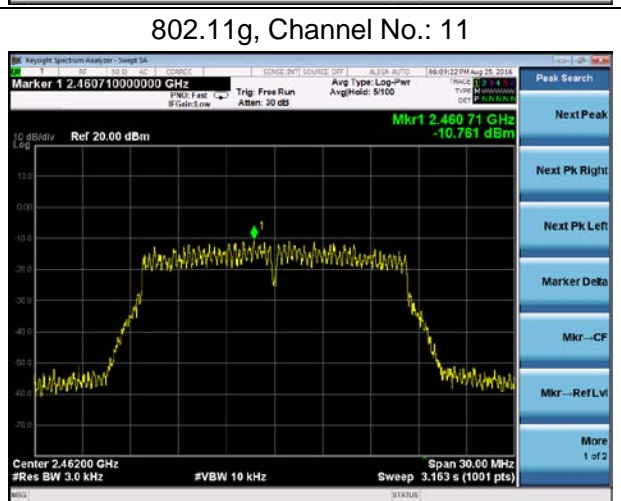
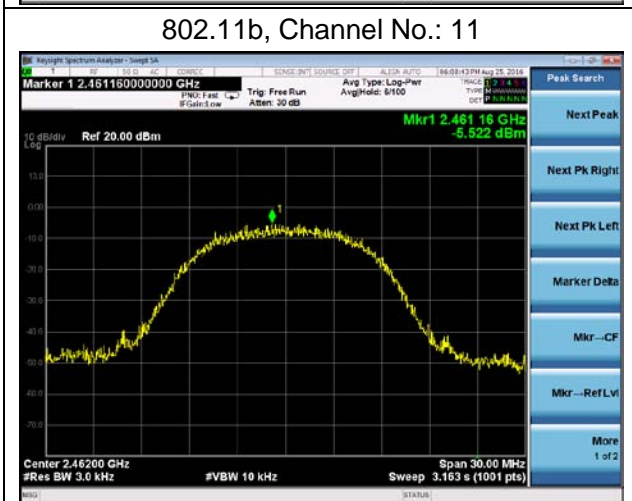
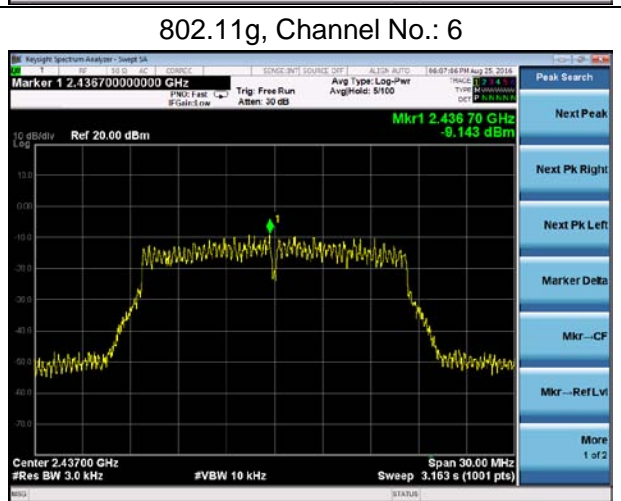
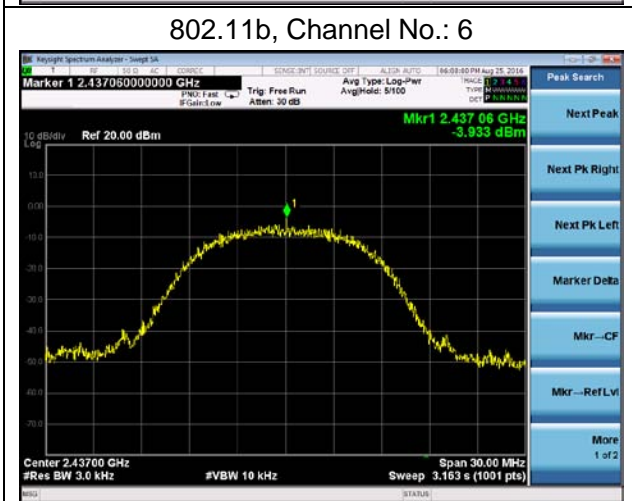
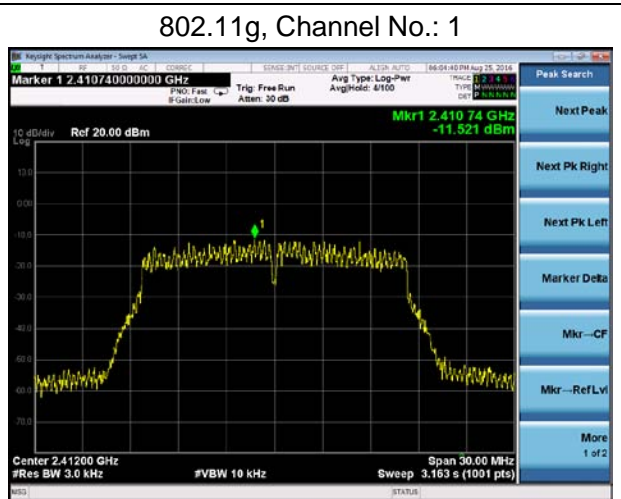
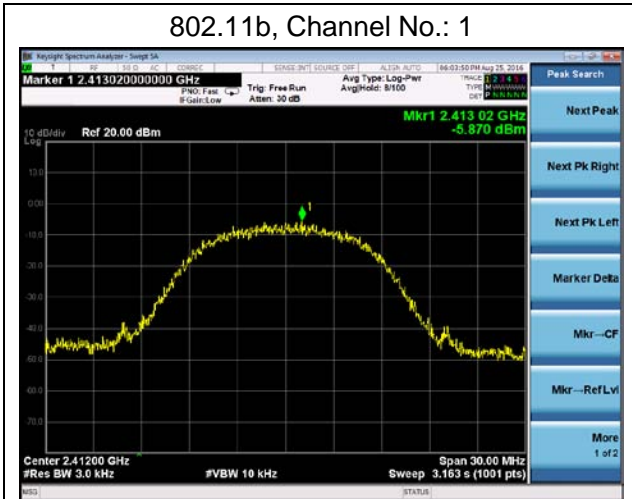
Limits	≤ 8 dBm / 3kHz
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#### Measurement Uncertainty

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

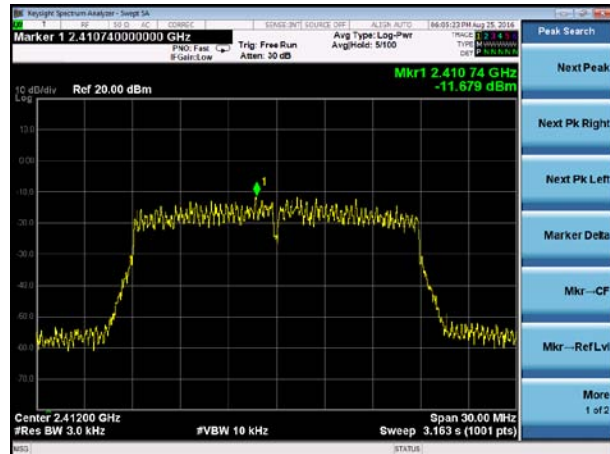
**Test Results:**

Network Standards	Channel Number	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
802.11b	1	-5.87	8	PASS
	6	-3.93	8	PASS
	11	-5.52	8	PASS
802.11g	1	-11.52	8	PASS
	6	-9.14	8	PASS
	11	-10.76	8	PASS
802.11n HT20	1	-11.68	8	PASS
	6	-9.64	8	PASS
	11	-10.60	8	PASS
802.11n HT40	3	-16.10	8	PASS
	6	-14.47	8	PASS
	9	-15.42	8	PASS
Bluetooth (Low Energy)	0	-17.75	8	PASS
	19	-17.92	8	PASS
	39	-18.54	8	PASS

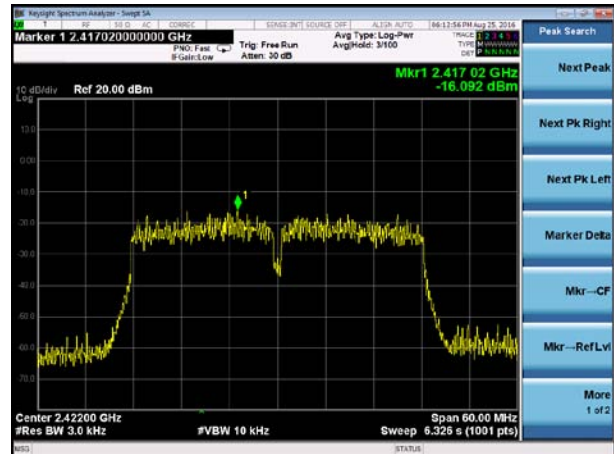




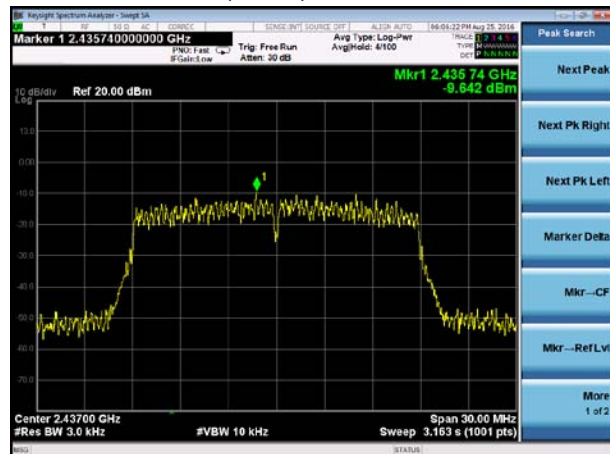
802.11n(HT20), Channel No. 1



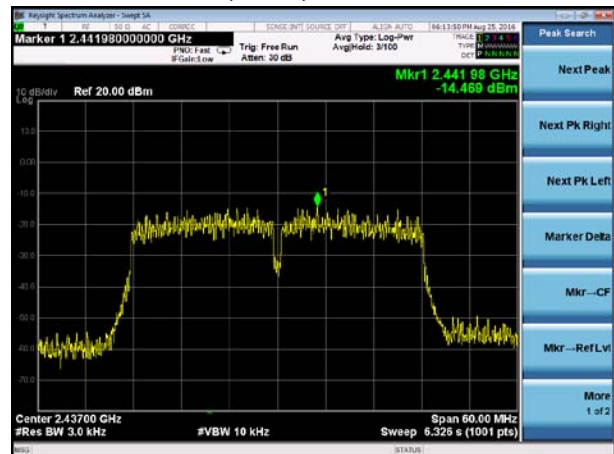
802.11n(HT40), Channel No. 3



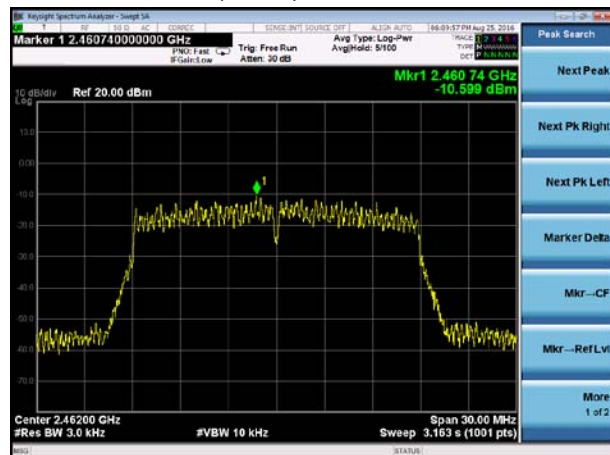
802.11n(HT20), Channel No. 6



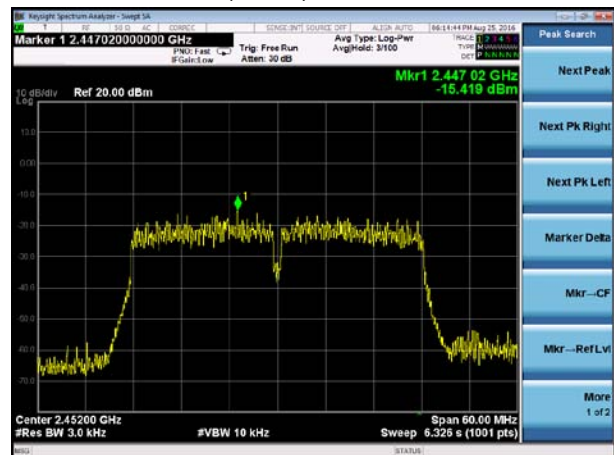
802.11n(HT40), Channel No. 6



802.11n(HT20), Channel No. 11

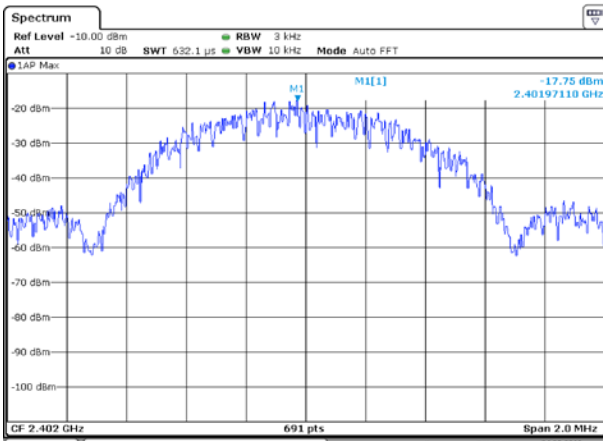


802.11n(HT40), Channel No. 9



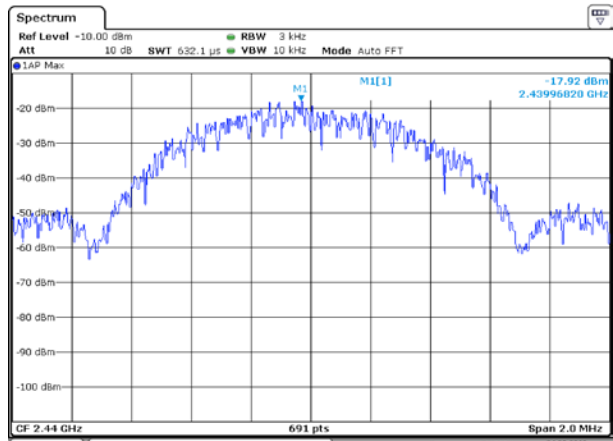


### BLE, Channel No.: 0



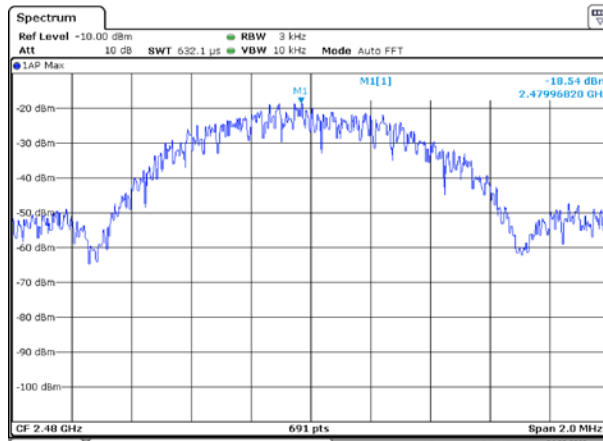
Date: 24.AUG.2016 09:09:55

### BLE, Channel No.: 19



Date: 24.AUG.2016 09:11:35

### BLE, Channel No.: 39



Date: 24.AUG.2016 09:12:12

### 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.

**Test setup**



**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	-8.939	-28.939
	2437	-10.424	-30.424
	2462	15.427	-35.427
802.11g	2412	15.836	-35.836
	2437	-18.031	-38.031
	2462	-14.488	-34.488
802.11n HT20	2412	-7.700	-27.70
	2437	-15.677	-35.677
	2462	-11.202	-31.202
802.11n HT40	2422	-15.89	-35.89
	2437	-14.023	-34.023
	2452	-15.067	-35.067
Bluetooth (Low Energy)	2402	-12.790	-32.790
	2440	-22.059	-42.059
	2480	-17.409	-37.409



### Measurement Uncertainty

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

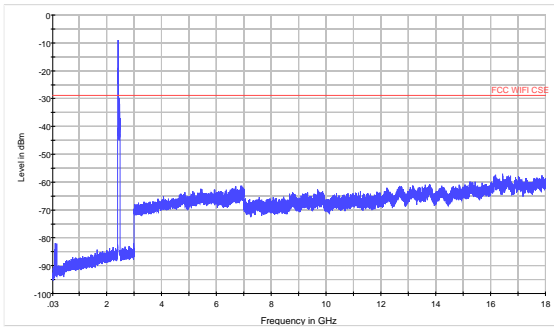
Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

### Test Results:

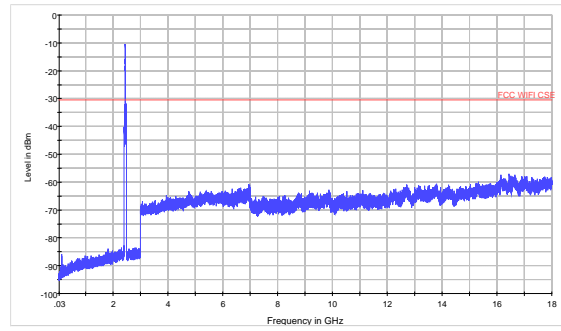
If disturbances were found more than 20dB below limit line, the mark is not required for the EUT. The signal beyond the limit is carrier.

The signal beyond the limit is carrier

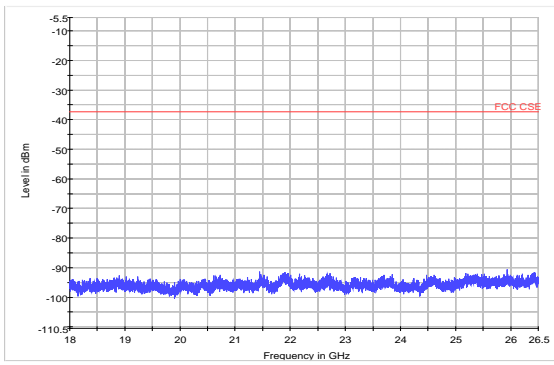
Test Data File Name	Frequency (MHz)	Peak (dBm)	Margin (dB)	Limit (dBm)
CSE_WIFI n20M_CH06_0.03-18GHz_0822	9747.75	-52.94	17.263	35.677



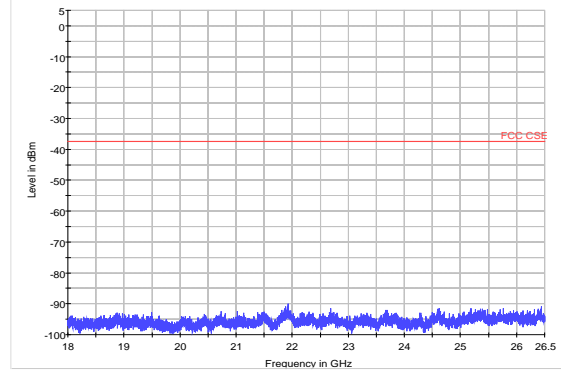
802.11b CH1 30MHz to 18GHz



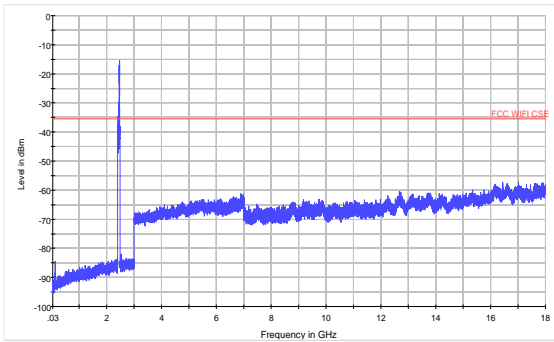
802.11b CH6 30MHz to 18GHz



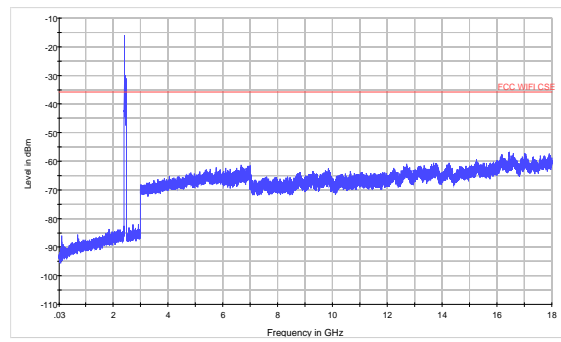
802.11b CH1 18GHz to 26.5GHz



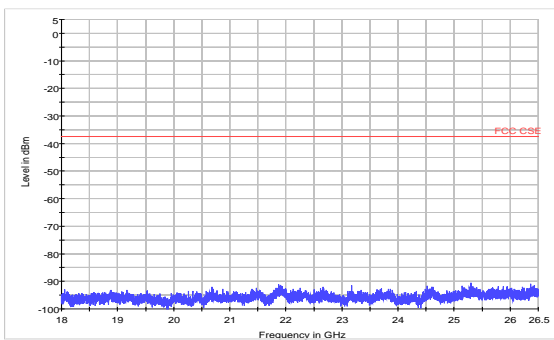
802.11b CH6 18GHz to 26.5GHz



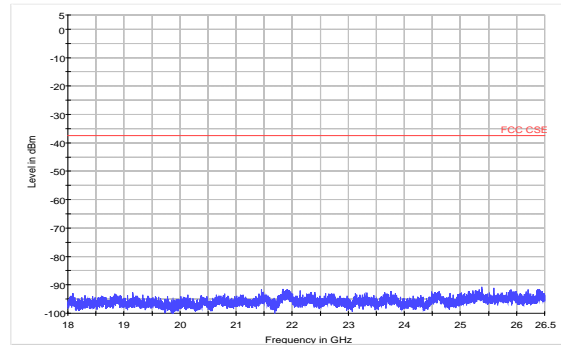
802.11b CH11 30MHz to 18GHz



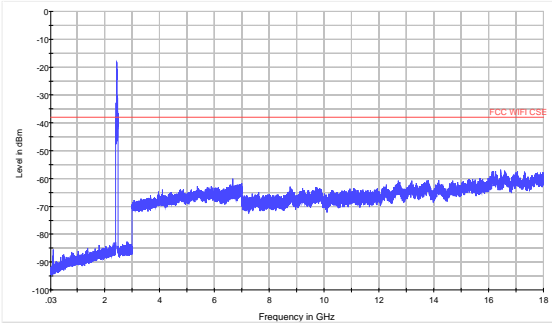
802.11g CH1 30MHz to 18GHz



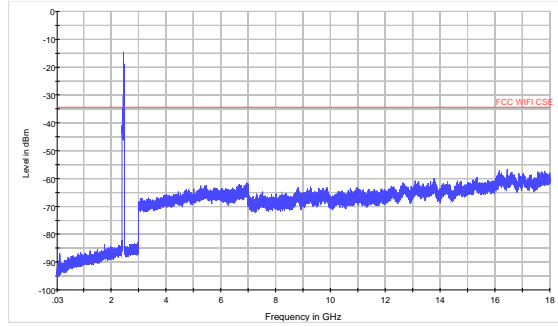
802.11b CH11 18GHz to 26.5GHz



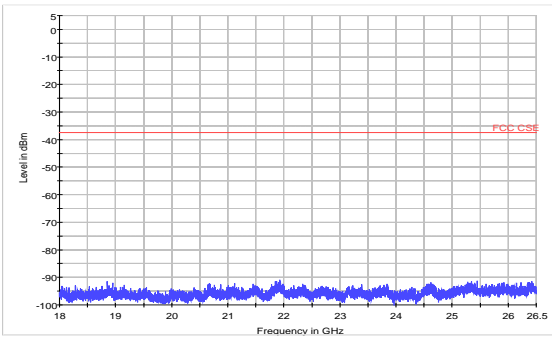
802.11g CH1 18GHz to 26.5GHz



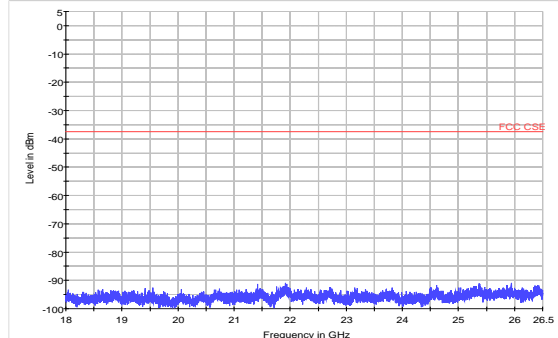
802.11g CH6 30MHz to 18GHz



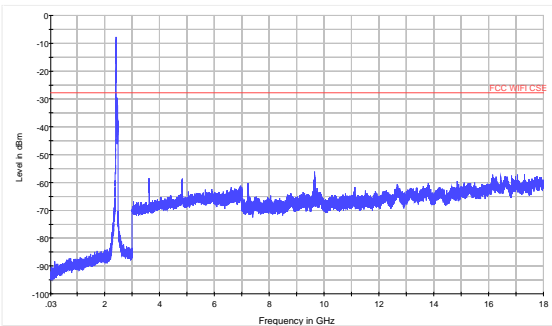
802.11g CH11 30MHz to 18GHz



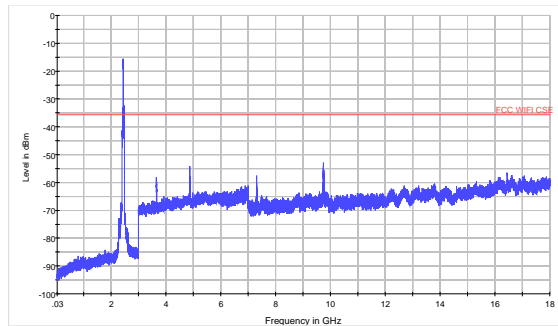
802.11g CH6 18GHz to 26.5GHz



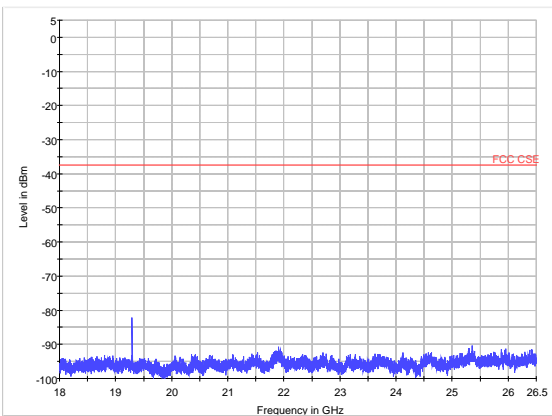
802.11g CH11 18GHz to 26.5GHz



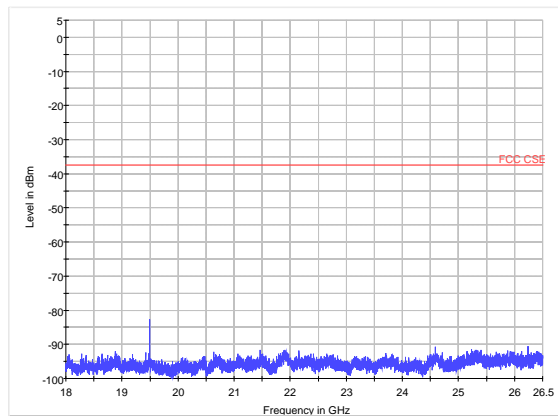
802.11n (HT20) CH1 30MHz to 18GHz



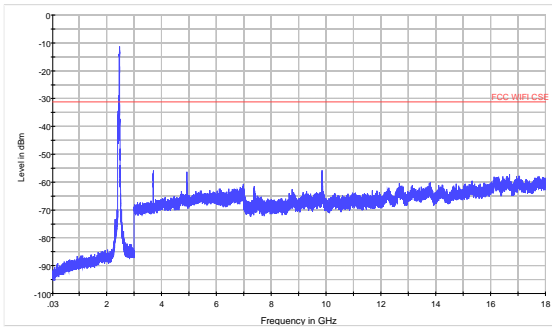
802.11n (HT20) CH6 30MHz to 18GHz



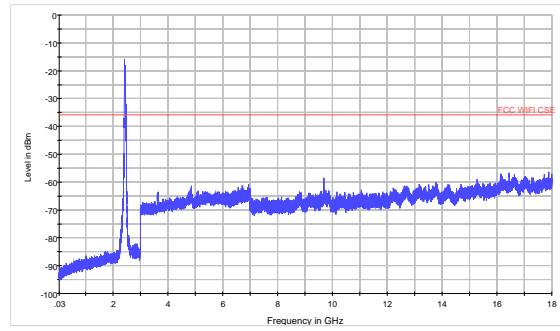
802.11n (HT20) CH1 18GHz to 26.5GHz



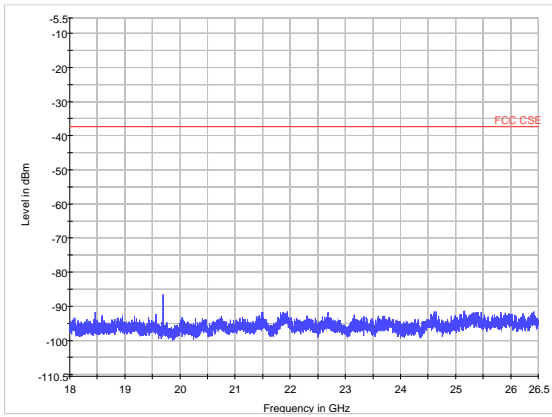
802.11n (HT20) CH6 18GHz to 26.5GHz



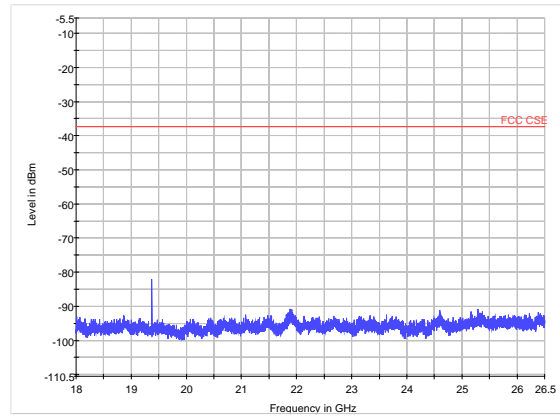
802.11n (HT20) CH11 30MHz to 18GHz



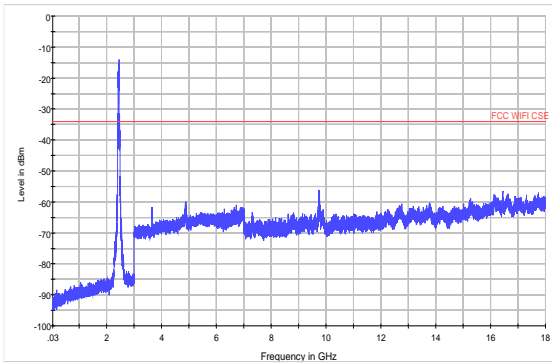
802.11n (HT40) CH3 30MHz to 18GHz



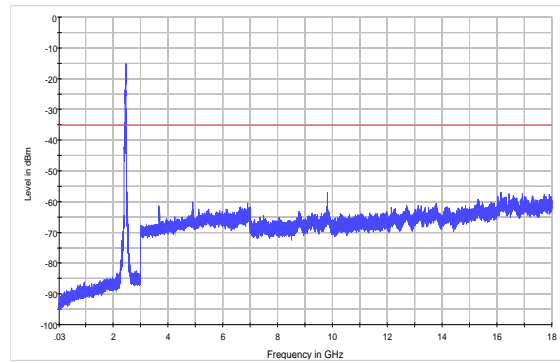
802.11n (HT20) CH11 18GHz to 26.5GHz



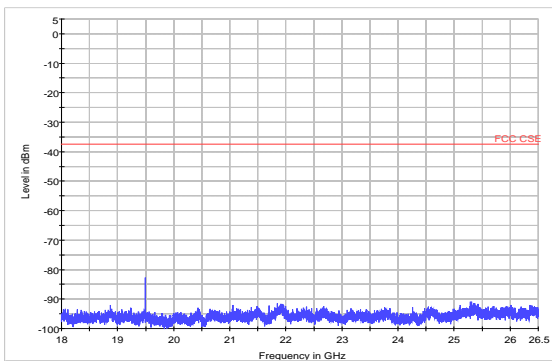
802.11n (HT40) CH3 18GHz to 26.5GHz



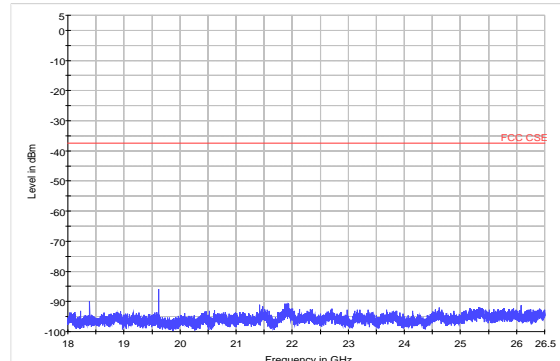
802.11n (HT40) CH6 30MHz to 18GHz



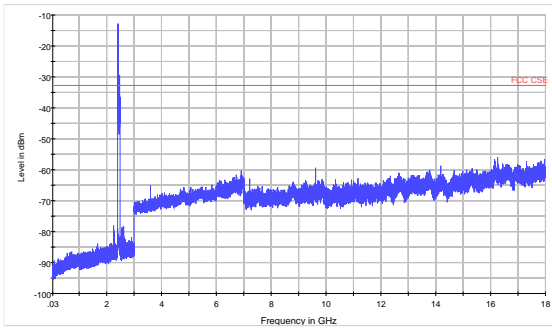
802.11n (HT40) CH9 30MHz to 18GHz



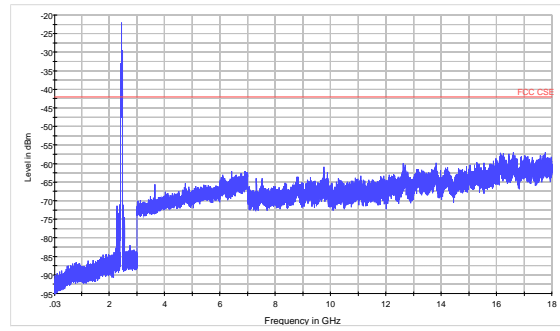
802.11n (HT40) CH6 18GHz to 26.5GHz



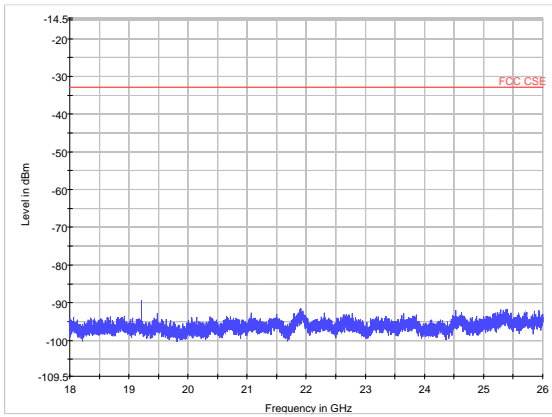
802.11n (HT40) CH9 18GHz to 26.5GHz



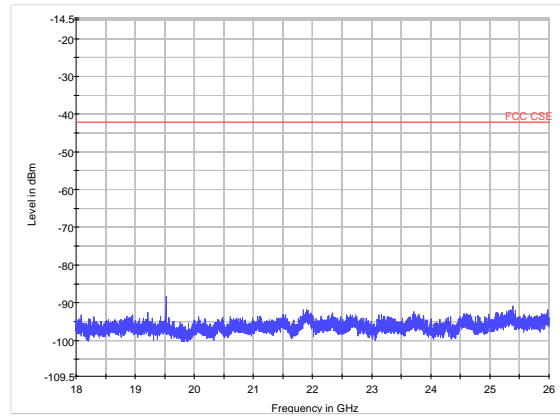
BLE CH0 30MHz to 18GHz



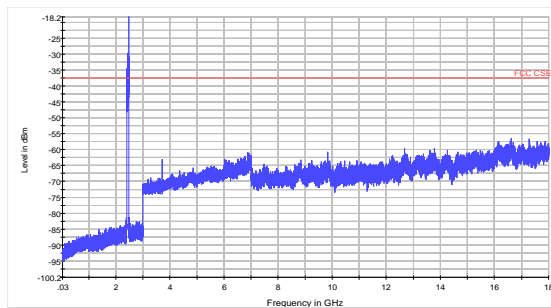
BLE CH19 30MHz to 18GHz



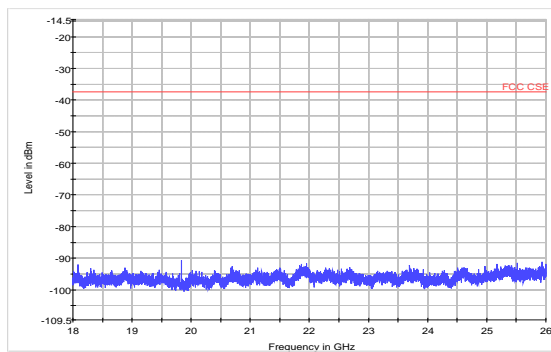
BLE CH0 18GHz to 26.5GHz



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:

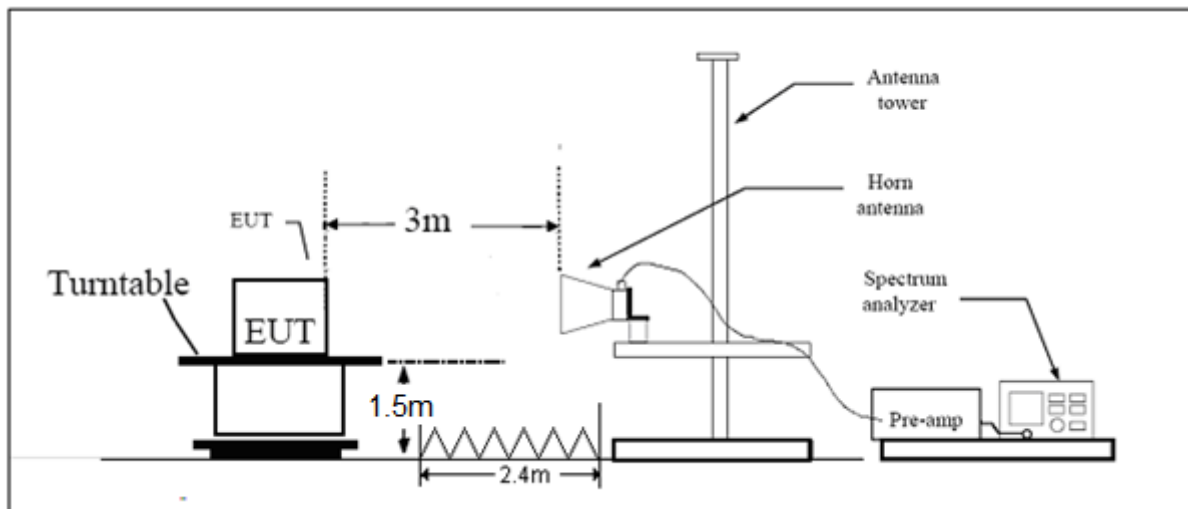
- (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
- (b) AVERAGE: RBW=1MHz / VBW=1MHz / Sweep=AUTO

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
<sup>1</sup> 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	( <sup>2</sup> )
13.36 - 13.41			

Limit in restricted band

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
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.

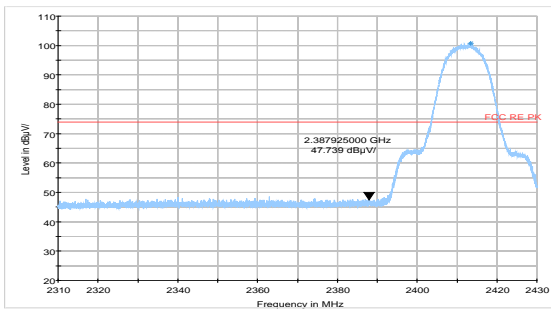


**Test Results:**

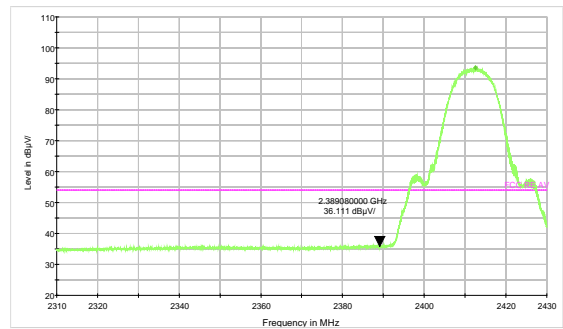
**PASS**

The signal beyond the limit is carrier.

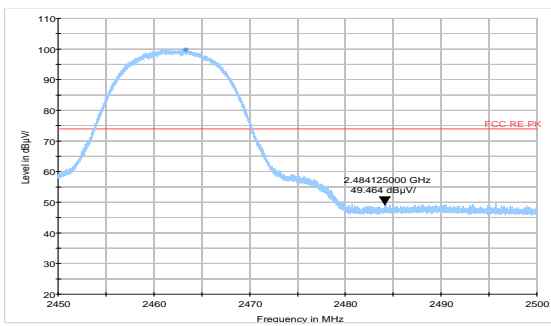
**802.11b-Channel 1: Peak**



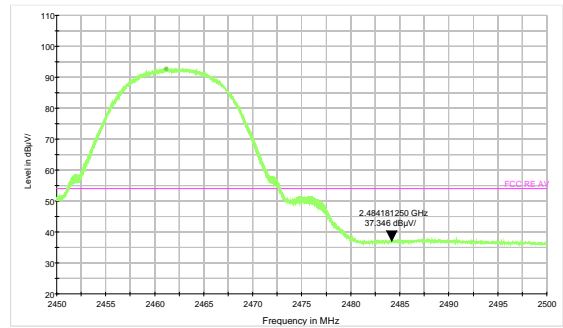
**802.11b-Channel 1: Average**



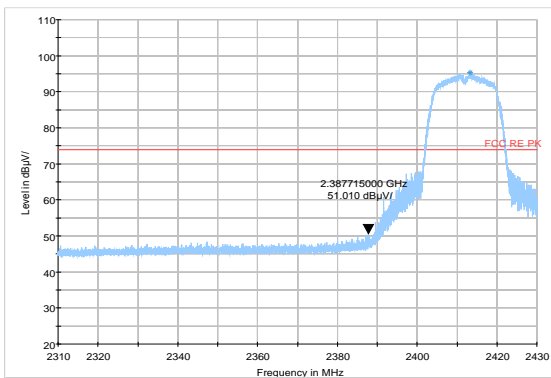
**802.11b-Channel 11: Peak**



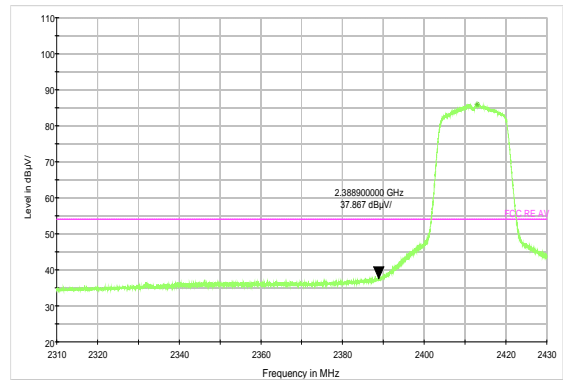
**802.11b-Channel 11: Average**



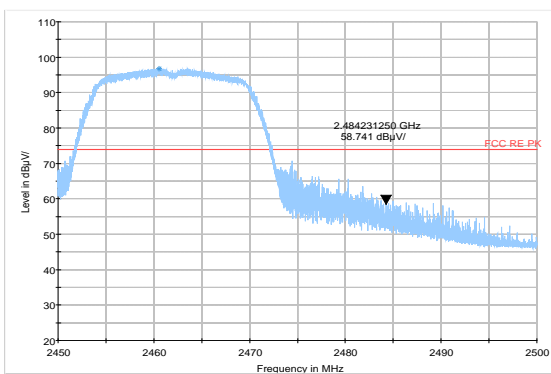
**802.11g-Channel 1: Peak**



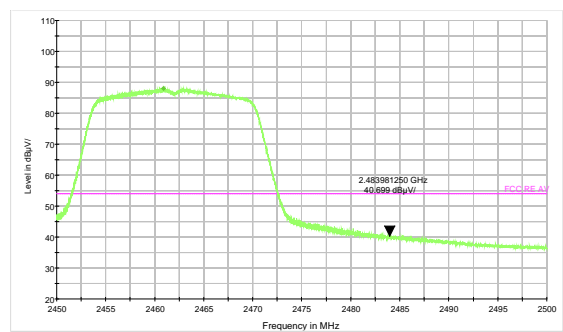
**802.11g-Channel 1: Average**



**802.11g-Channel 11: Peak**



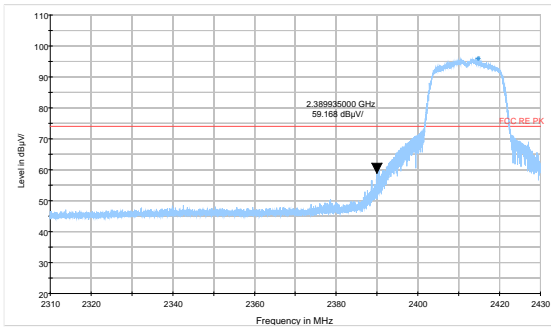
**802.11g-Channel 11: Average**



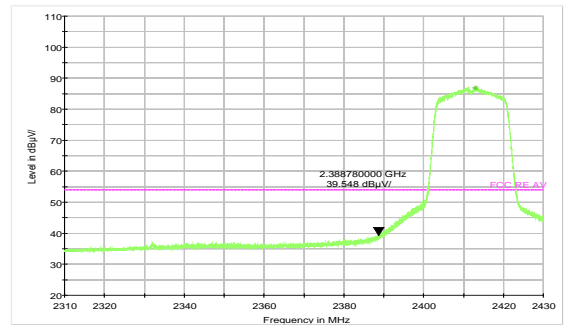




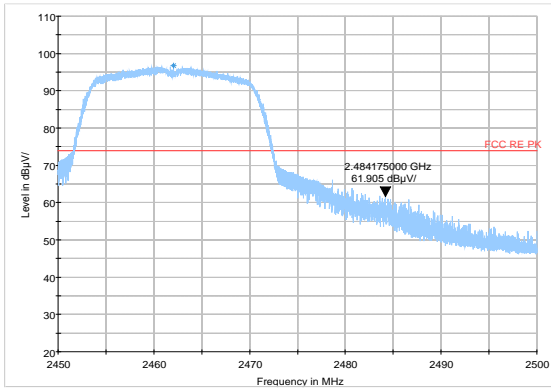
### 802.11n HT20 -Channel 1: Peak



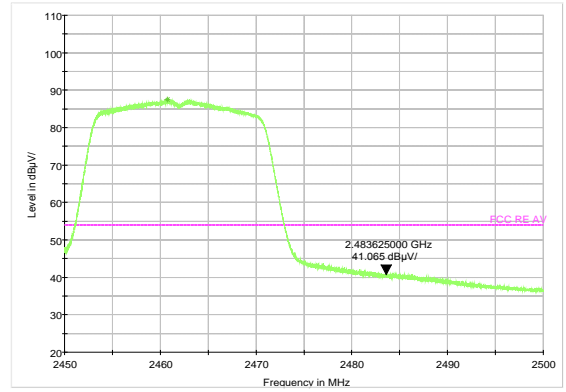
### 802.11n HT20-Channel 1: Average



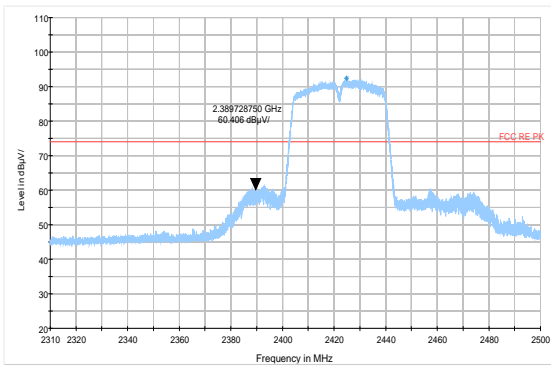
### 802.11n HT20-Channel 11: Peak



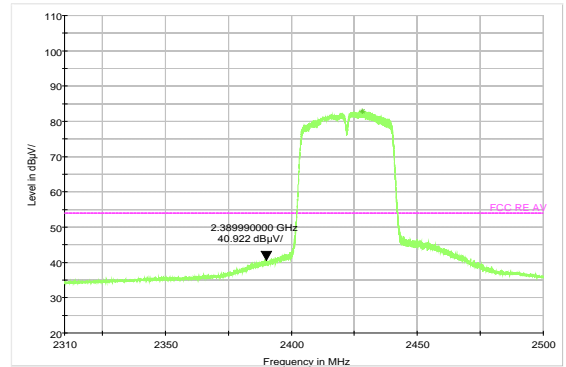
### 802.11n HT20-Channel 11: Average



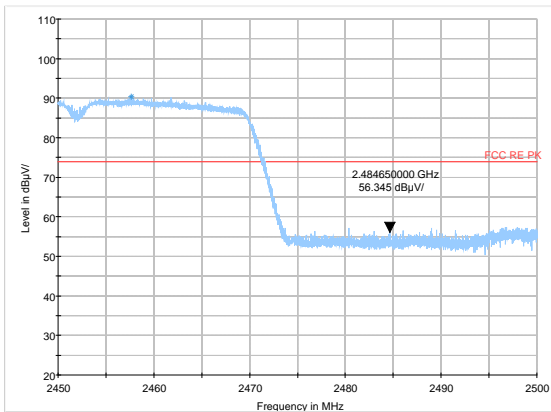
### 802.11n HT40 -Channel 3: Peak



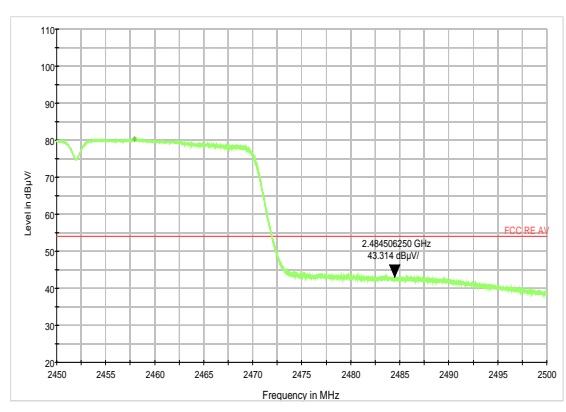
### 802.11n HT40-Channel 3: Average



### 802.11n HT40-Channel 9: Peak

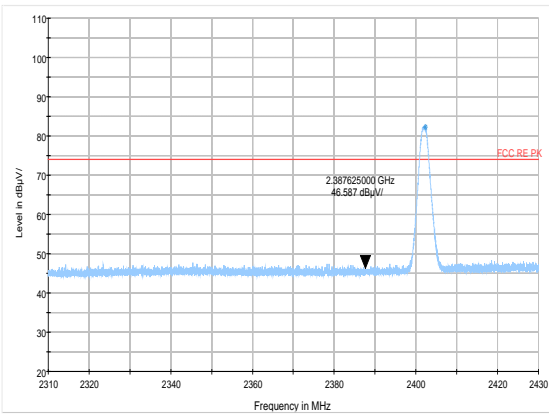


### 802.11n HT40-Channel 9: Average

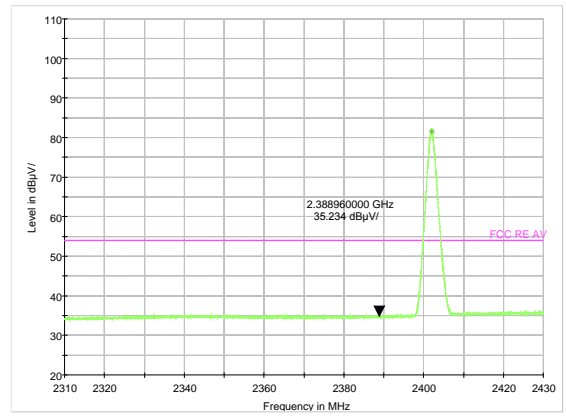




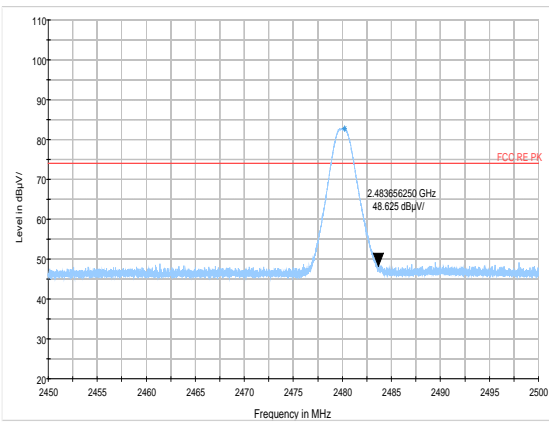
### BLE -Channel 0: Peak



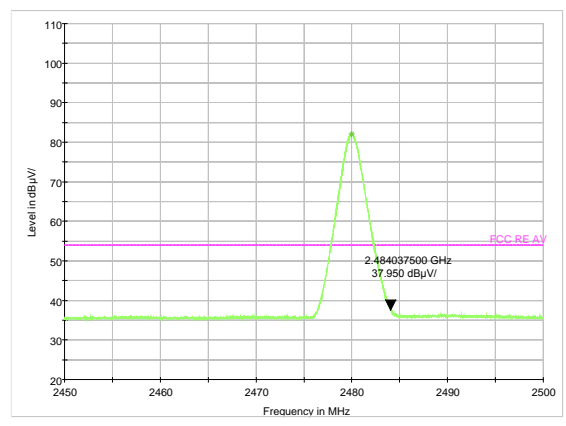
### BLE -Channel 0: Average



### 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

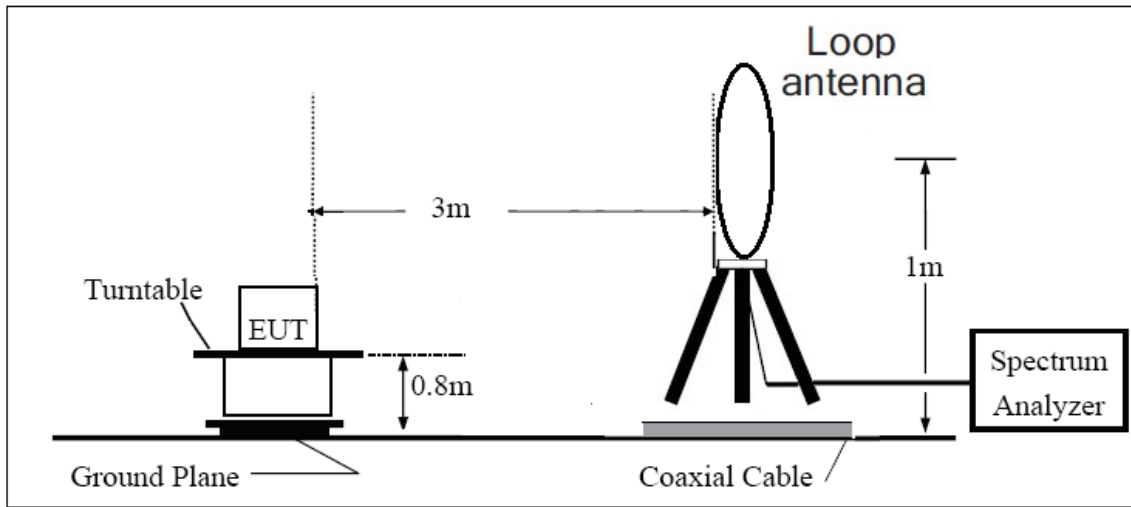
(b) AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

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.

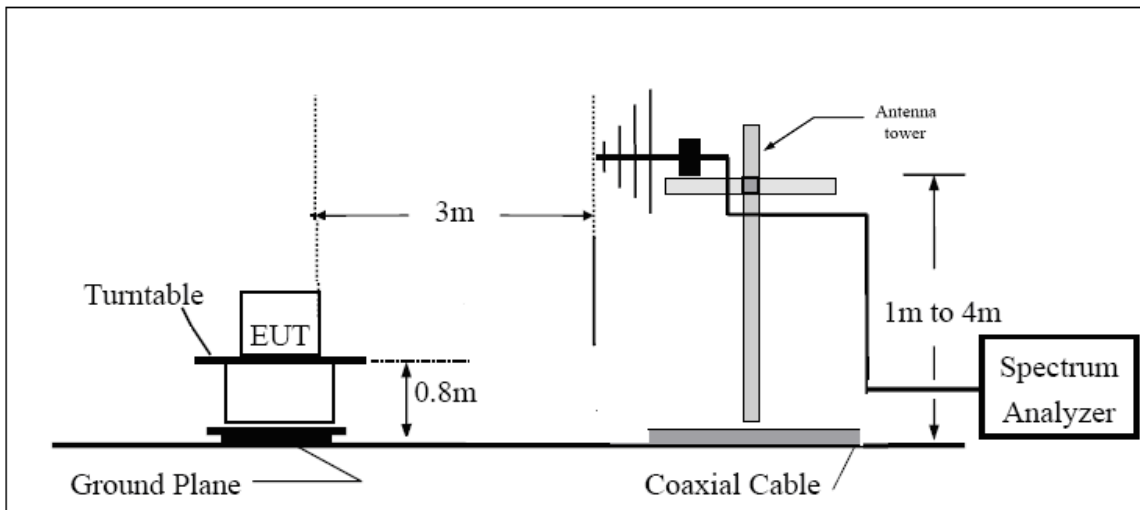
The test is in transmitting mode.

**Test setup**

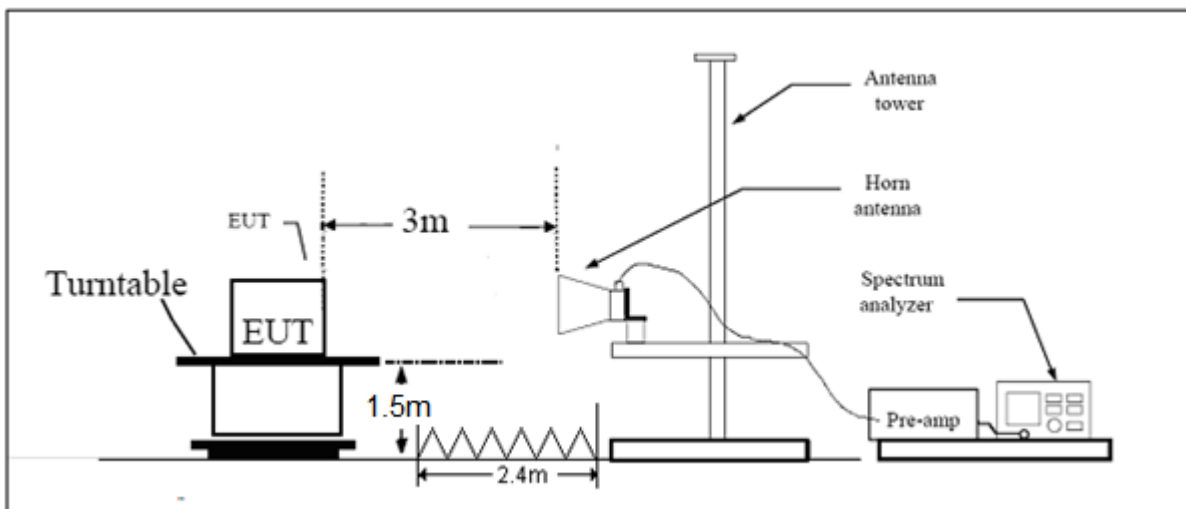
**9KHz~~~ 30MHz**



**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**

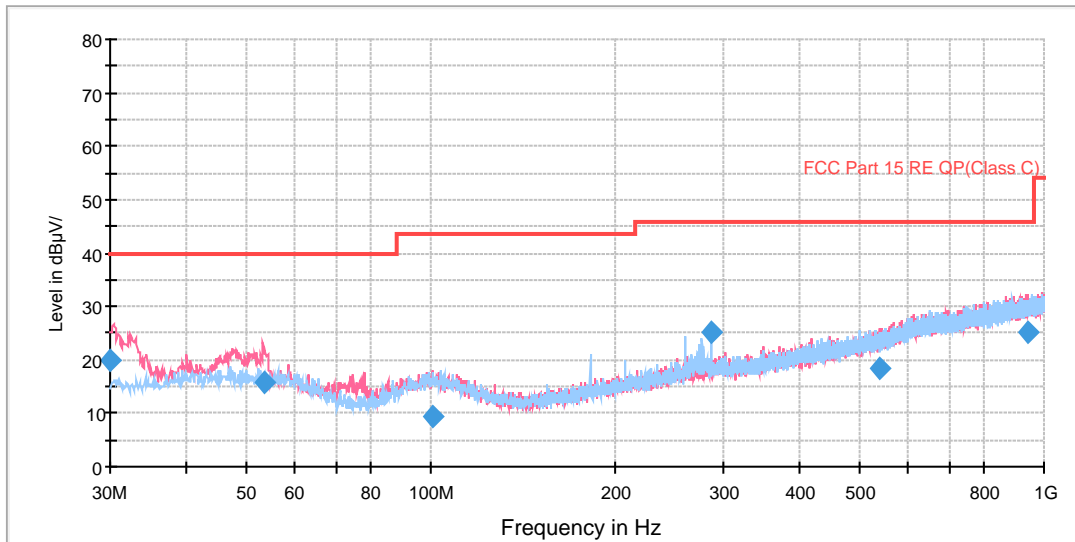
Sweep from 9 kHz to 30MHz, and the emissions more than 20 dB below the permissible value are not reported.

The 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**

FCC RE 0.03-1GHz QP Class C



Radiates Emission from 30MHz to 1GHz

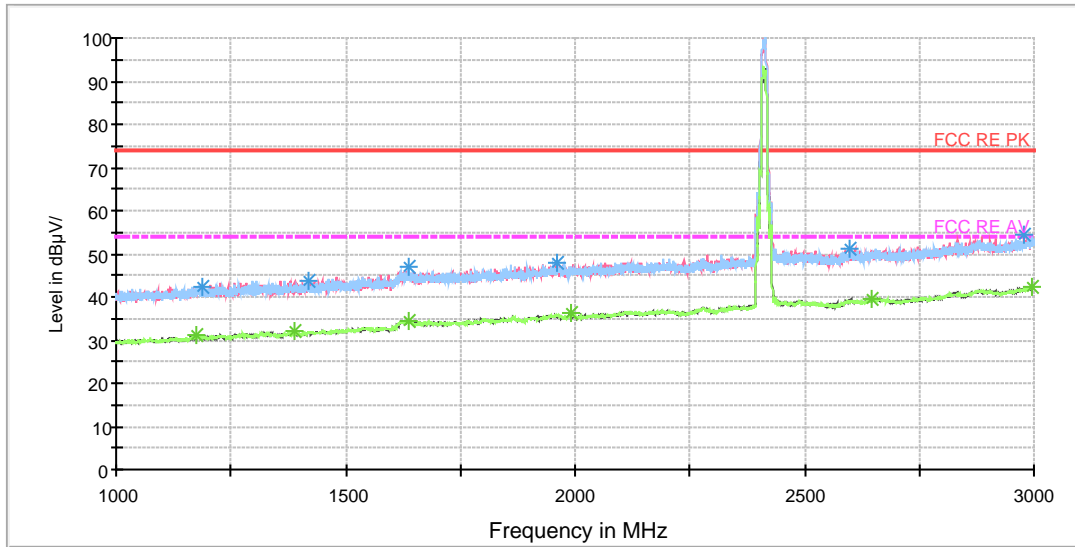
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.000000	20.0	100.0	V	322.0	31.9	11.9	20.0	40.0
53.690000	15.9	100.0	V	243.0	28.7	12.8	24.1	40.0
101.046250	9.5	100.0	V	239.0	22.7	13.2	34.0	43.5
285.998750	25.0	114.0	H	294.0	40.0	15.0	21.0	46.0
541.390000	18.3	125.0	V	73.0	39.1	20.8	27.7	46.0
941.066250	25.1	125.0	V	0.0	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-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

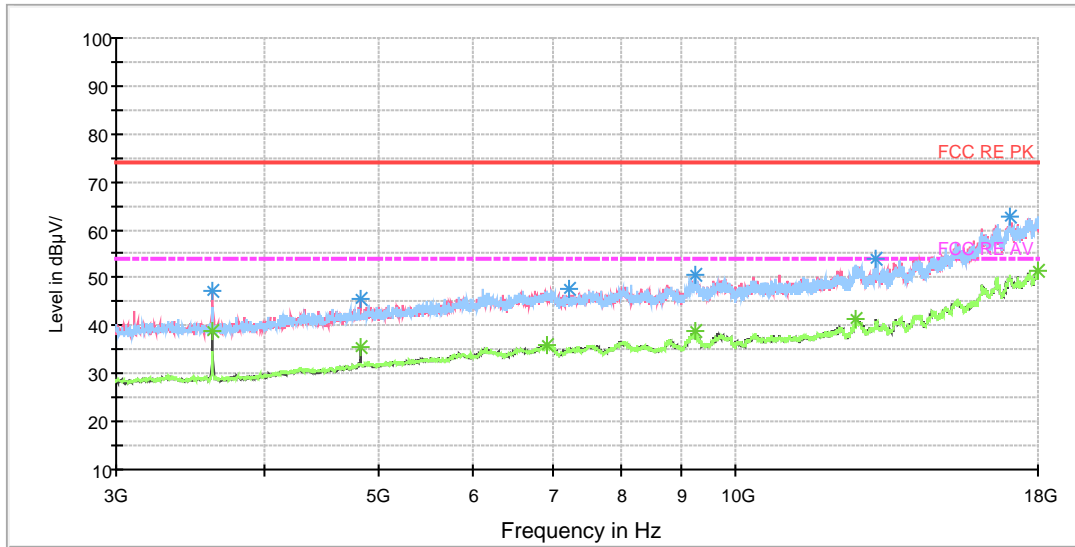
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1186.250000	42.3	101.0	V	359.0	50.4	-8.1	31.7	74
1418.250000	43.8	101.0	V	238.0	50.7	-6.9	30.2	74
1636.750000	46.8	101.0	H	178.0	51.5	-4.7	27.2	74
1962.250000	47.8	101.0	H	82.0	51.1	-3.3	26.2	74
2599.250000	51.4	101.0	V	252.0	51.8	0.4	22.6	74
2978.500000	54.2	101.0	V	129.0	56.4	2.2	19.8	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)
1175.750000	31.0	101.0	H	110.0	39.0	-8.0	23.0	54
1387.500000	32.0	101.0	V	320.0	39.0	-7.0	22.0	54
1635.500000	34.6	101.0	V	359.0	39.3	-4.7	19.4	54
1992.500000	36.1	101.0	V	212.0	39.4	-3.3	17.9	54
2646.500000	39.5	101.0	H	218.0	39.8	0.3	14.5	54
2995.250000	42.4	101.0	V	359.0	44.7	2.3	11.6	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)
3616.875000	47.2	101.0	V	113.0	49.2	-2.0	26.8	74
4822.500000	45.6	101.0	V	0.0	46.9	1.3	28.4	74
7246.875000	47.8	101.0	H	51.0	54.8	7.0	26.2	74
9230.625000	50.5	101.0	H	51.0	60.4	9.9	23.5	74
13155.000000	53.8	101.0	H	142.0	68.0	14.2	20.2	74
17062.500000	62.8	101.0	H	330.0	87.0	24.2	11.2	74

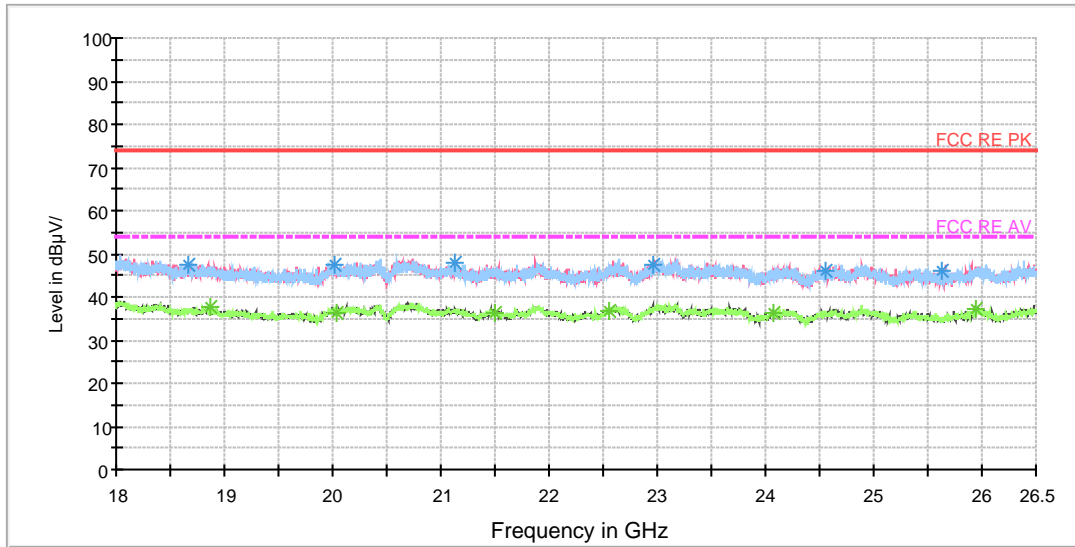
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3618.750000	38.8	101.0	V	221.0	40.8	-2.0	15.2	54
4822.500000	35.7	101.0	V	0.0	37.0	1.3	18.3	54
6926.250000	36.0	101.0	H	82.0	42.2	6.2	18.0	54
9234.375000	38.7	101.0	H	203.0	48.6	9.9	15.3	54
12648.750000	41.6	101.0	H	0.0	55.8	14.2	12.4	54
18000.000000	51.4	101.0	H	234.0	76.9	25.5	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)
18666.187500	47.3	H	121.0	51.6	-4.3	26.7	74
20013.437500	47.5	H	35.0	53.2	-5.7	26.5	74
21120.562500	47.8	H	35.0	55.4	-7.6	26.2	74
22966.125000	47.4	V	327.0	53.6	-6.2	26.6	74
24559.875000	46.1	V	190.0	52.1	-6.0	27.9	74
25624.500000	46.0	H	47.0	51.7	-5.7	28.0	74

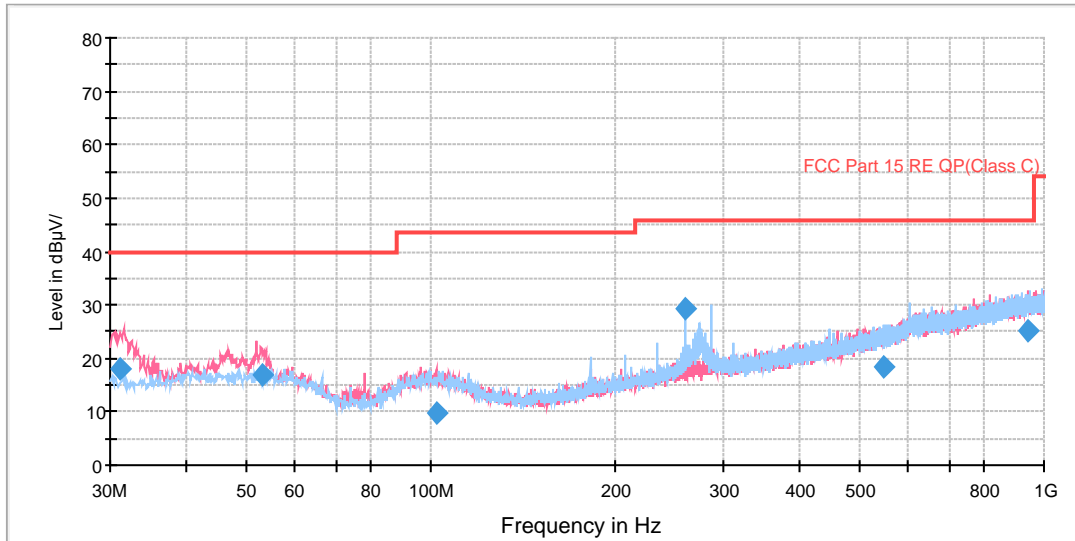
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18864.875000	37.5	V	0.0	42.2	-4.7	16.5	54
20044.250000	36.3	H	10.0	42.0	-5.7	17.7	54
21506.250000	36.3	H	35.0	44.4	-8.1	17.7	54
22561.312500	36.8	V	178.0	43.6	-6.8	17.2	54
24075.375000	36.2	V	228.0	42.1	-5.9	17.8	54
25944.312500	37.4	H	279.0	42.8	-5.4	16.6	54

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

802.11b CH6

FCC RE 0.03-1GHz QP Class C

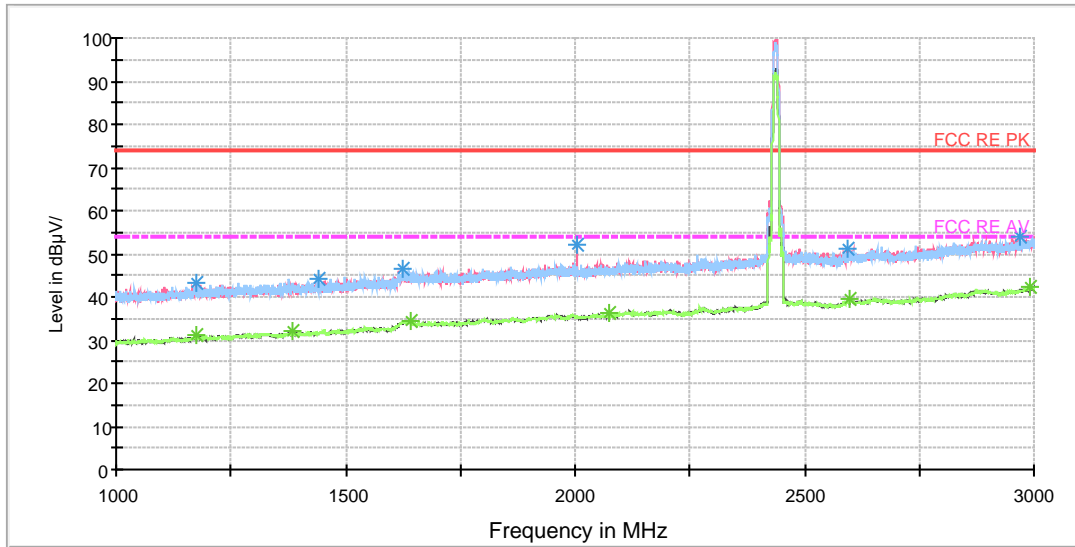


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
31.096250	17.9	100.0	V	242.0	29.8	11.9	22.1	40.0
53.286250	17.0	100.0	V	246.0	29.8	12.8	23.0	40.0
102.461250	9.9	100.0	V	265.0	22.9	13.0	33.6	43.5
260.011250	29.4	100.0	H	276.0	43.8	14.4	16.6	46.0
548.460000	18.4	114.0	H	0.0	39.4	21.0	27.6	46.0
944.143750	25.2	114.0	V	323.0	51.3	26.1	20.8	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

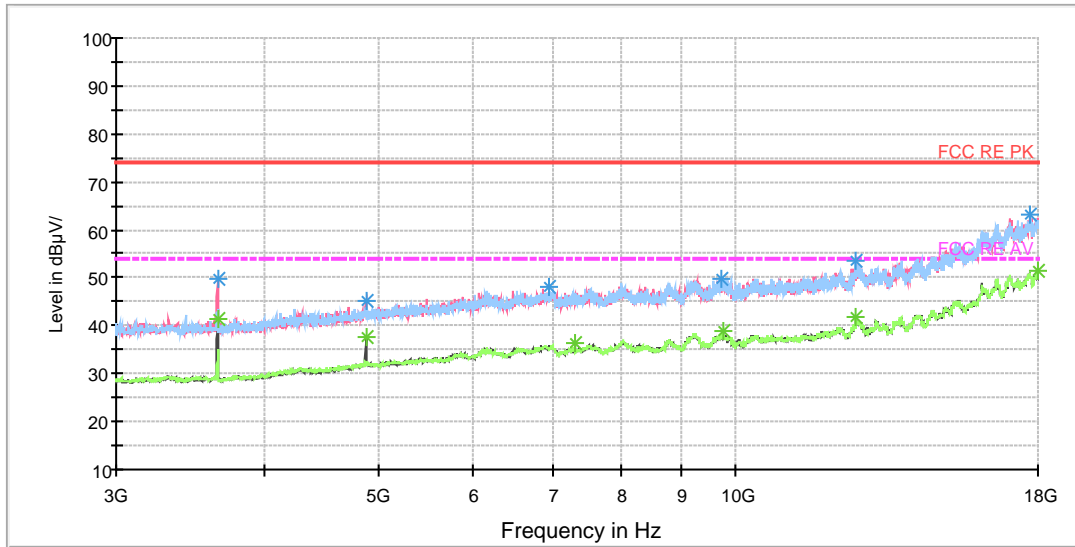
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1175.000000	43.1	101.0	V	0.0	51.1	-8.0	30.9	74
1441.750000	44.2	101.0	H	202.0	51.1	-6.9	29.8	74
1624.750000	46.4	101.0	H	148.0	51.2	-4.8	27.6	74
2004.000000	51.9	101.0	V	0.0	55.4	-3.5	22.1	74
2594.750000	51.2	101.0	V	0.0	51.4	0.2	22.8	74
2969.000000	54.0	101.0	H	202.0	56.2	2.2	20.0	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)
1174.000000	31.0	101.0	H	273.0	39.1	-8.1	23.0	54
1382.250000	32.0	101.0	V	58.0	39.0	-7.0	22.0	54
1642.500000	34.4	101.0	H	162.0	39.2	-4.8	19.6	54
2072.250000	36.1	101.0	V	251.0	39.2	-3.1	17.9	54
2599.750000	39.3	101.0	V	291.0	39.7	0.4	14.7	54
2993.250000	42.5	101.0	V	251.0	44.7	2.2	11.5	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

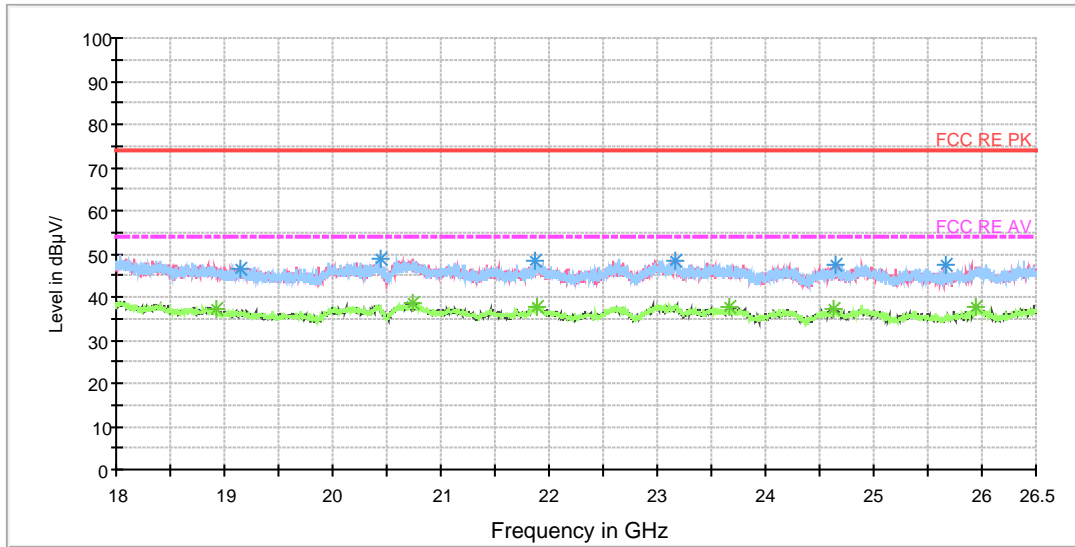
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3654.375000	50.0	101.0	V	30.0	51.9	-1.9	24.0	74
4873.125000	45.0	101.0	V	0.0	46.8	1.8	29.0	74
6948.750000	48.0	101.0	H	2.0	54.2	6.2	26.0	74
9721.875000	50.0	101.0	V	47.0	59.5	9.5	24.0	74
12635.625000	53.4	101.0	H	214.0	67.5	14.1	20.6	74
17756.250000	63.1	101.0	H	32.0	87.4	24.3	10.9	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)
3654.375000	41.6	101.0	V	30.0	43.5	-1.9	12.4	54
4873.125000	37.6	101.0	V	0.0	39.4	1.8	16.4	54
7308.750000	36.2	101.0	V	47.0	43.2	7.0	17.8	54
9748.125000	38.9	101.0	H	0.0	48.7	9.8	15.1	54
12639.375000	41.6	101.0	H	62.0	56.1	14.5	12.4	54
18000.000000	51.5	101.0	H	108.0	77.0	25.5	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)
19144.312500	46.4	H	0.0	51.8	-5.4	27.6	74
20441.625000	48.7	H	60.0	54.8	-6.1	25.3	74
21879.187500	48.2	V	290.0	56.2	-8.0	25.8	74
23164.812500	48.3	V	302.0	54.4	-6.1	25.7	74
24645.937500	47.4	H	47.0	53.4	-6.0	26.6	74
25670.187500	47.3	V	178.0	52.9	-5.6	26.7	74

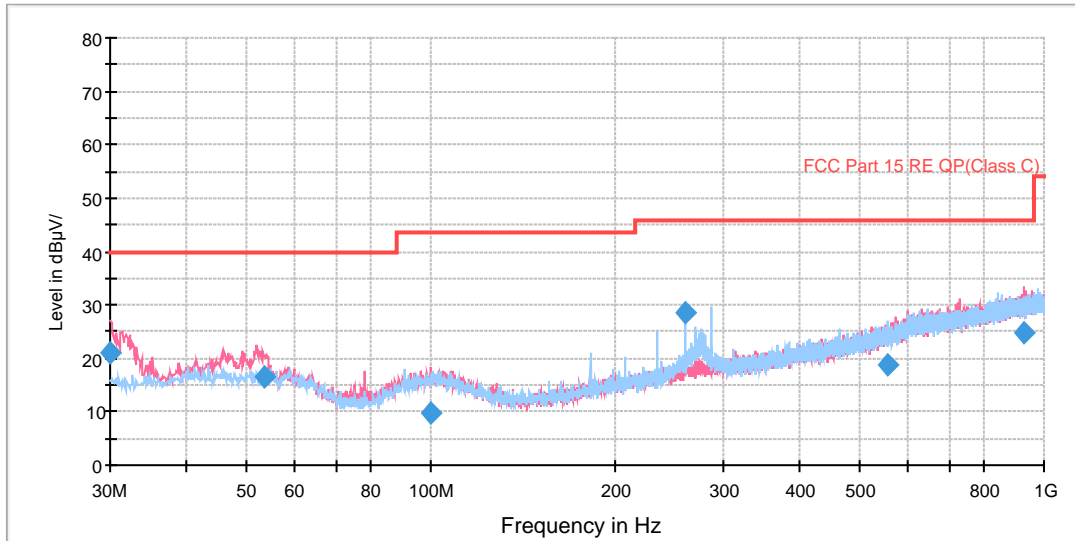
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18930.750000	37.1	V	228.0	42.0	-4.9	16.9	54
20748.687500	38.6	H	121.0	45.4	-6.8	15.4	54
21895.125000	37.8	V	216.0	45.8	-8.0	16.2	54
23675.875000	37.6	V	266.0	43.5	-5.9	16.4	54
24636.375000	37.4	V	166.0	43.4	-6.0	16.6	54
25936.875000	37.5	V	203.0	42.9	-5.4	16.5	54

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

802.11b CH11

FCC RE 0.03-1GHz QP Class C

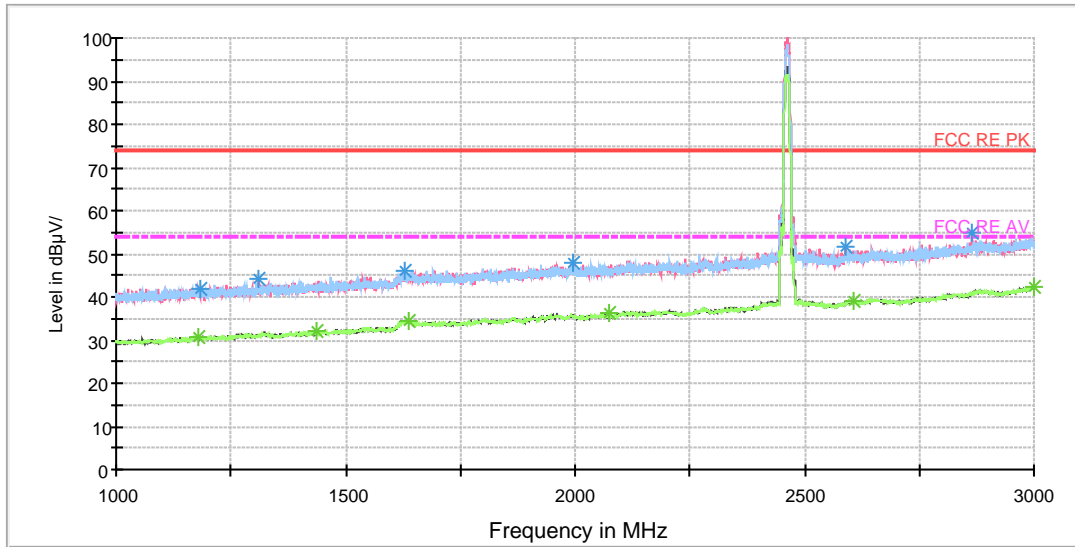


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.000000	21.0	100.0	V	231.0	32.9	11.9	19.0	40.0
53.487500	16.5	100.0	V	243.0	29.3	12.8	23.5	40.0
100.320000	9.6	100.0	V	233.0	22.8	13.2	33.9	43.5
260.011250	28.6	100.0	H	104.0	43.0	14.4	17.4	46.0
555.947500	18.8	100.0	H	195.0	40.0	21.2	27.2	46.0
926.482500	24.9	100.0	V	173.0	50.7	25.8	21.1	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

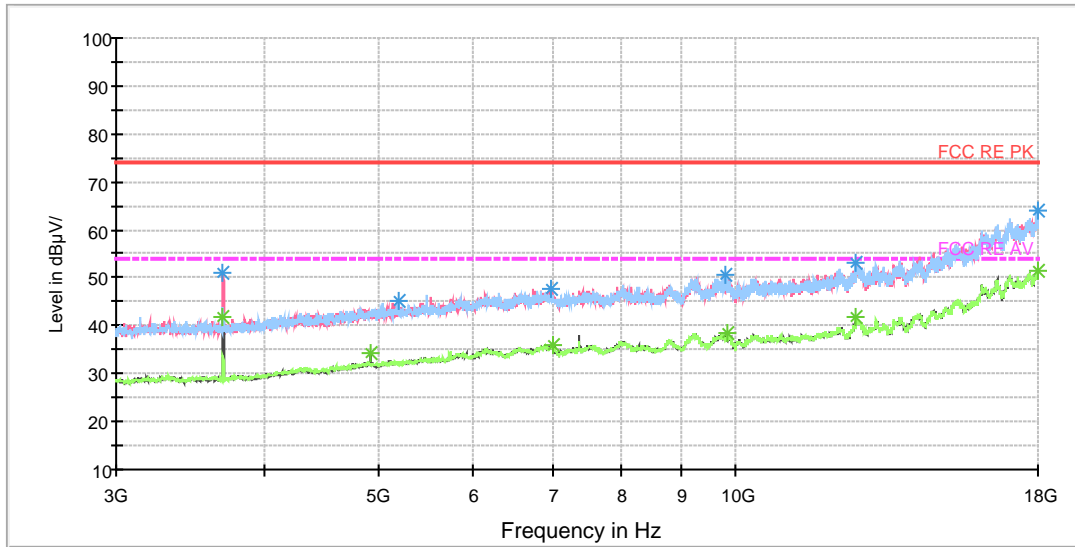
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1182.500000	42.1	101.0	V	249.0	50.1	-8.0	31.9	74
1312.000000	44.0	101.0	V	168.0	51.6	-7.6	30.0	74
1629.000000	46.2	101.0	H	29.0	50.9	-4.7	27.8	74
1995.500000	48.0	101.0	H	16.0	51.2	-3.2	26.0	74
2590.750000	51.7	101.0	V	315.0	51.7	0.0	22.3	74
2864.000000	54.8	101.0	V	289.0	56.7	1.9	19.2	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)
1178.750000	30.8	101.0	V	301.0	38.8	-8.0	23.2	54
1435.750000	32.0	101.0	V	27.0	38.9	-6.9	22.0	54
1637.250000	34.4	101.0	H	151.0	39.1	-4.7	19.6	54
2073.500000	36.1	101.0	H	56.0	39.2	-3.1	17.9	54
2606.250000	39.1	101.0	H	0.0	39.4	0.3	14.9	54
2998.000000	42.1	101.0	H	233.0	44.4	2.3	11.9	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)
3691.875000	51.1	101.0	V	156.0	52.8	-1.7	22.9	74
5201.250000	45.1	101.0	H	34.0	47.2	2.1	28.9	74
6978.750000	47.6	101.0	H	330.0	53.9	6.3	26.4	74
9793.125000	50.5	101.0	H	0.0	60.4	9.9	23.5	74
12648.750000	53.0	101.0	H	185.0	67.2	14.2	21.0	74
17996.250000	64.0	101.0	V	278.0	89.4	25.4	10.0	74

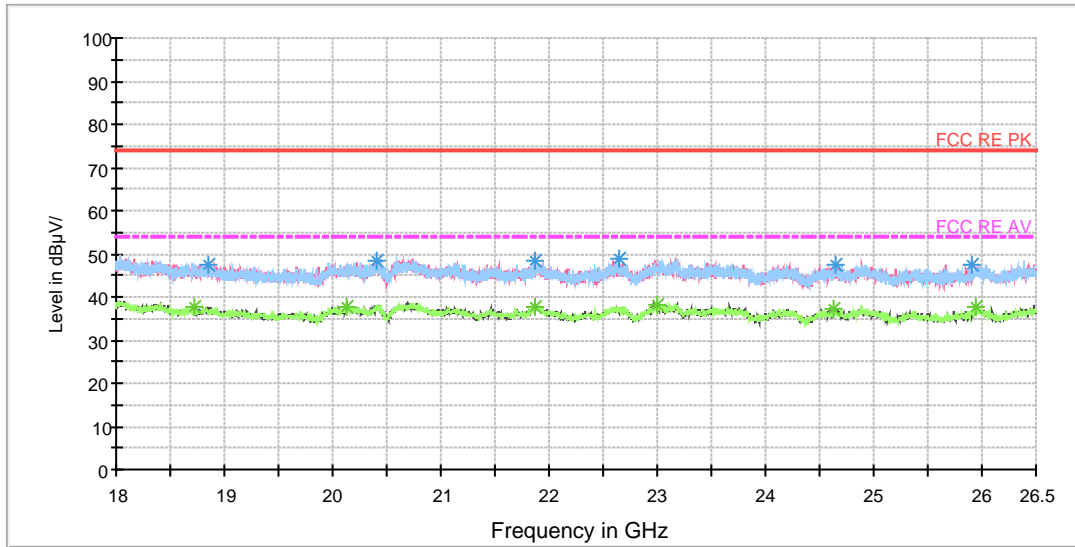
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3690.000000	42.0	101.0	V	156.0	43.7	-1.7	12.0	54
4923.750000	34.2	101.0	V	0.0	36.1	1.9	19.8	54
7008.750000	36.1	101.0	H	125.0	42.6	6.5	17.9	54
9847.500000	38.6	101.0	H	109.0	48.9	10.3	15.4	54
12650.625000	41.8	101.0	V	0.0	55.9	14.1	12.2	54
18000.000000	51.4	101.0	H	49.0	76.9	25.5	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)
18843.625000	47.4	V	0.0	52.1	-4.7	26.6	74
20399.125000	48.4	H	134.0	54.5	-6.1	25.6	74
21879.187500	48.2	V	290.0	56.2	-8.0	25.8	74
22653.750000	49.1	H	227.0	55.7	-6.6	24.9	74
24645.937500	47.4	H	47.0	53.4	-6.0	26.6	74
25898.625000	47.3	V	327.0	52.7	-5.4	26.7	74

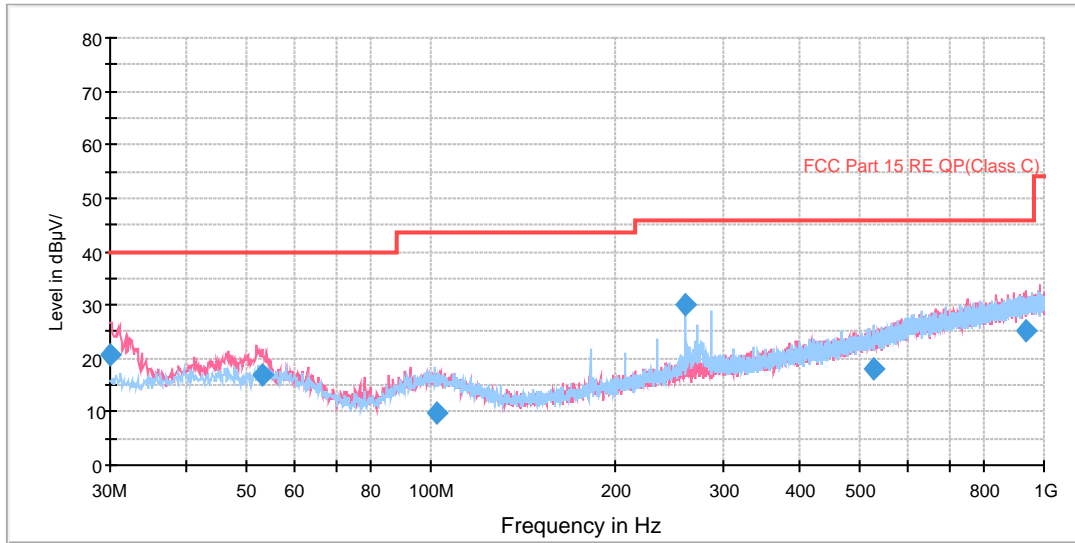
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18717.187500	37.8	V	339.0	42.2	-4.4	16.2	54
20120.750000	37.7	V	253.0	43.5	-5.8	16.3	54
21878.125000	37.8	V	0.0	45.8	-8.0	16.2	54
22995.875000	38.3	H	121.0	44.5	-6.2	15.7	54
24636.375000	37.4	V	166.0	43.4	-6.0	16.6	54
25936.875000	37.5	V	203.0	42.9	-5.4	16.5	54

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

802.11g CH1

FCC RE 0.03-1GHz QP Class C

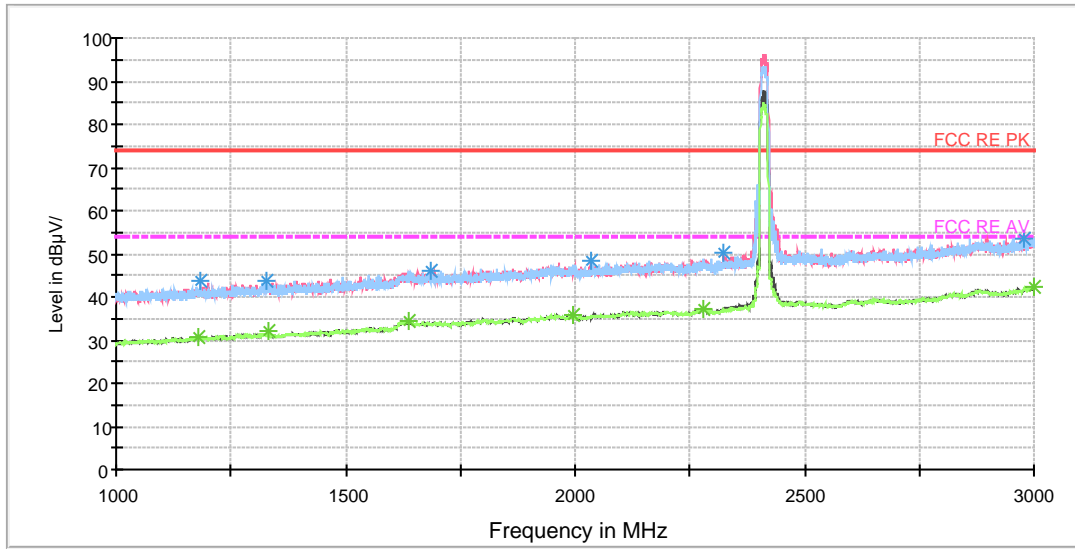


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.040000	20.5	100.0	V	174.0	32.4	11.9	19.5	40.0
53.286250	16.9	100.0	V	256.0	29.7	12.8	23.1	40.0
102.218750	9.8	125.0	H	28.0	22.8	13.0	33.7	43.5
260.011250	30.1	100.0	H	277.0	44.5	14.4	15.9	46.0
526.116250	18.0	114.0	H	82.0	38.5	20.5	28.0	46.0
935.132500	25.1	125.0	V	22.0	51.0	25.9	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-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

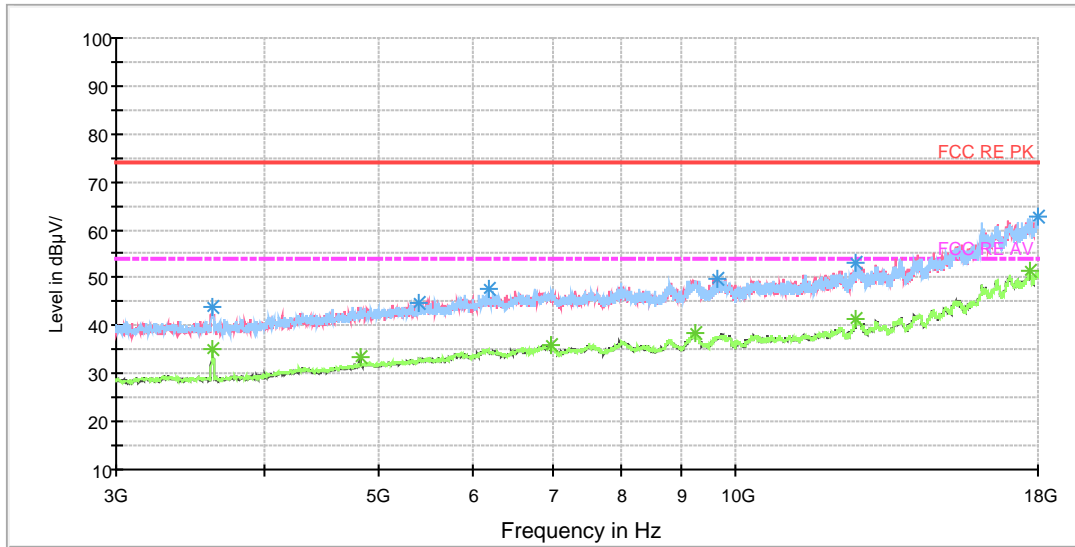
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1183.250000	43.9	101.0	H	0.0	51.9	-8.0	30.1	74
1327.250000	43.8	101.0	H	40.0	51.2	-7.4	30.2	74
1684.750000	46.1	101.0	H	163.0	51.1	-5.0	27.9	74
2033.000000	48.2	101.0	V	305.0	51.5	-3.3	25.8	74
2322.500000	50.1	101.0	V	305.0	51.8	-1.7	23.9	74
2979.500000	53.7	101.0	H	0.0	55.9	2.2	20.3	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)
1180.000000	30.9	101.0	H	27.0	38.9	-8.0	23.1	54
1332.500000	31.9	101.0	H	190.0	39.3	-7.4	22.1	54
1639.000000	34.6	101.0	H	177.0	39.3	-4.7	19.4	54
1994.500000	36.0	101.0	H	204.0	39.2	-3.2	18.0	54
2998.750000	42.1	101.0	V	278.0	44.4	2.3	11.9	54
2279.750000	37.4	101.0	V	252.0	38.7	-1.3	16.6	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

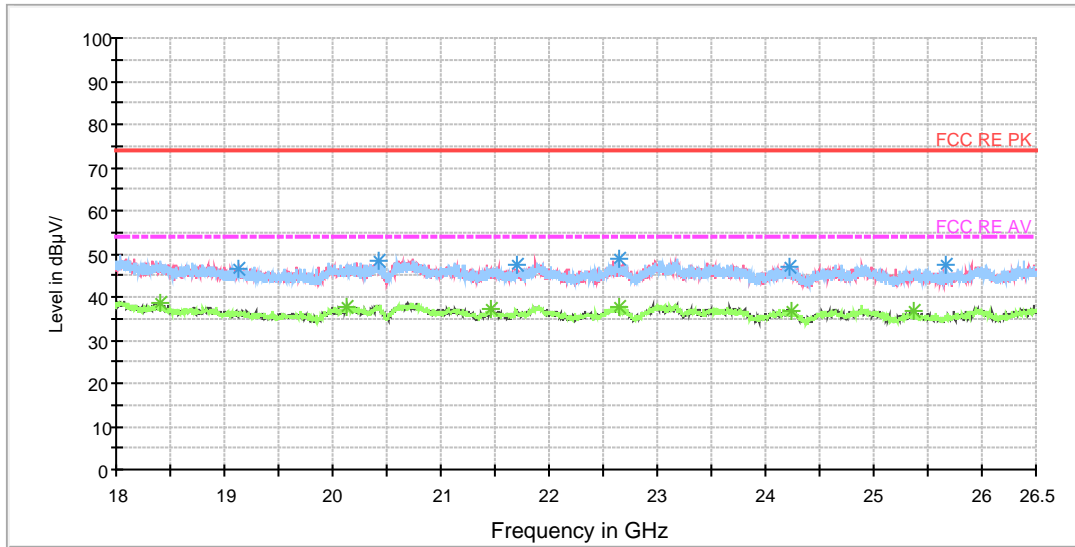
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3616.875000	43.8	101.0	V	337.0	45.8	-2.0	30.2	74
5396.250000	44.7	101.0	V	95.0	47.2	2.5	29.3	74
6196.875000	47.9	101.0	H	171.0	53.3	5.4	26.1	74
9652.500000	49.7	101.0	V	353.0	59.4	9.7	24.3	74
12637.500000	53.1	101.0	H	0.0	67.4	14.3	20.9	74
17996.250000	62.6	101.0	V	0.0	88.0	25.4	11.4	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)
3618.750000	35.1	101.0	V	337.0	37.1	-2.0	18.9	54
4816.875000	33.2	101.0	V	217.0	34.5	1.3	20.8	54
6993.750000	35.9	101.0	H	186.0	42.4	6.5	18.1	54
9230.625000	38.5	101.0	V	0.0	48.4	9.9	15.5	54
12637.500000	41.6	101.0	V	337.0	55.9	14.3	12.4	54
17692.500000	51.2	101.0	H	0.0	75.8	24.6	2.8	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)
19125.187500	46.6	V	351.0	51.9	-5.3	27.4	74
20419.312500	48.2	H	121.0	54.3	-6.1	25.8	74
21702.812500	47.6	H	189.0	55.6	-8.0	26.4	74
22653.750000	49.1	H	227.0	55.7	-6.6	24.9	74
24213.500000	47.2	V	290.0	53.1	-5.9	26.8	74
25670.187500	47.3	V	178.0	52.9	-5.6	26.7	74

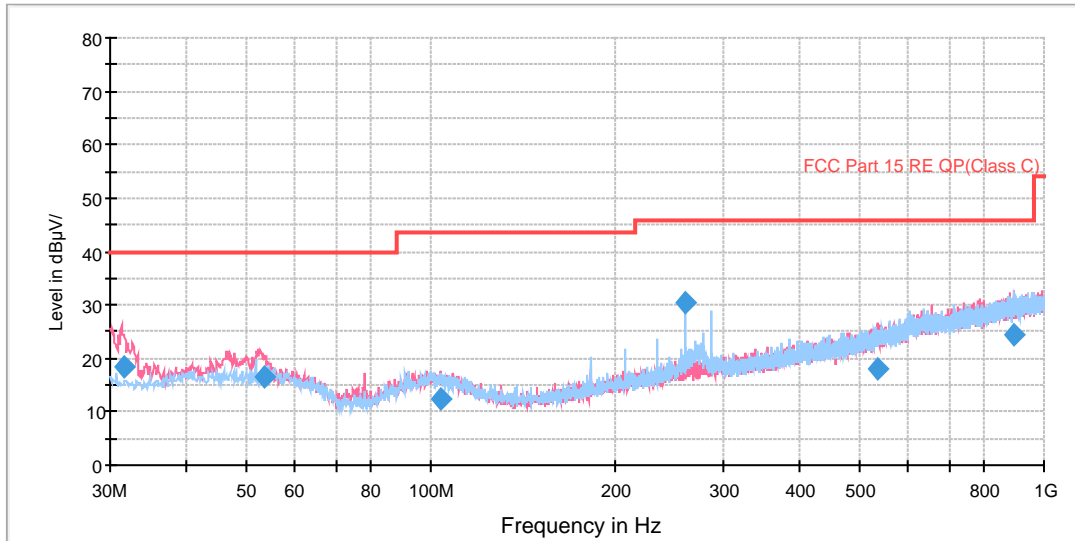
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18400.562500	38.6	H	160.0	42.1	-3.5	15.4	54
20120.750000	37.7	V	253.0	43.5	-5.8	16.3	54
21454.187500	37.1	V	339.0	45.1	-8.0	16.9	54
22645.250000	37.9	H	97.0	44.6	-6.7	16.1	54
24237.937500	36.9	H	292.0	42.8	-5.9	17.1	54
25369.500000	36.9	H	110.0	42.7	-5.8	17.1	54

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

802.11g CH6

FCC RE 0.03-1GHz QP Class C

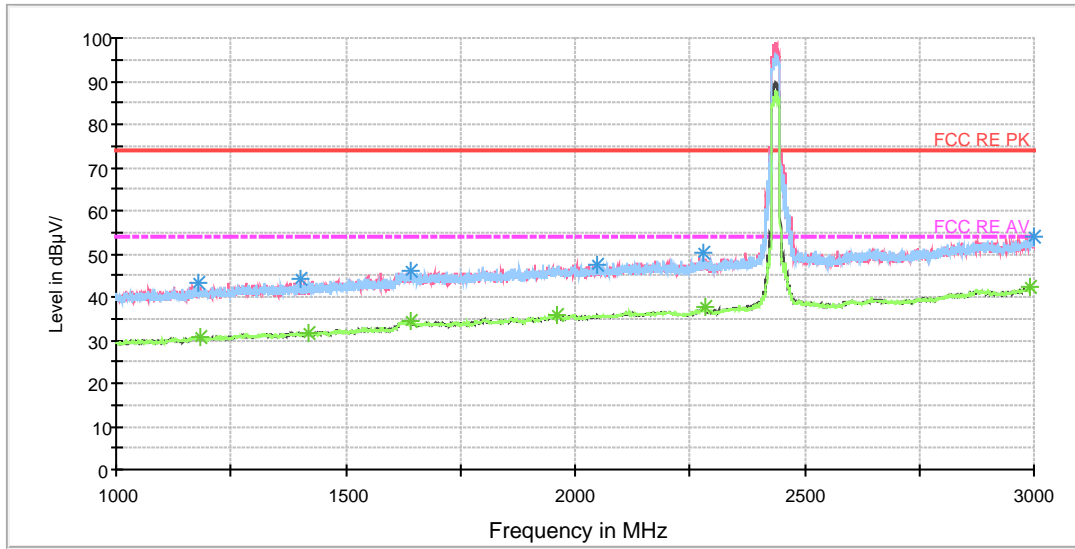


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
31.533750	18.2	100.0	V	255.0	30.1	11.9	21.8	40.0
53.407500	16.6	100.0	V	228.0	29.4	12.8	23.4	40.0
104.002500	12.5	100.0	V	142.0	25.4	12.9	31.0	43.5
260.011250	30.2	100.0	H	272.0	44.6	14.4	15.8	46.0
535.205000	18.1	125.0	V	321.0	38.8	20.7	27.9	46.0
891.846250	24.6	114.0	V	302.0	50.1	25.5	21.4	46.0

- Remark: 1. Quasi-Peak = Reading value + Correction factor  
 2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)  
 3. Margin = Limit – Quasi-Peak

RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

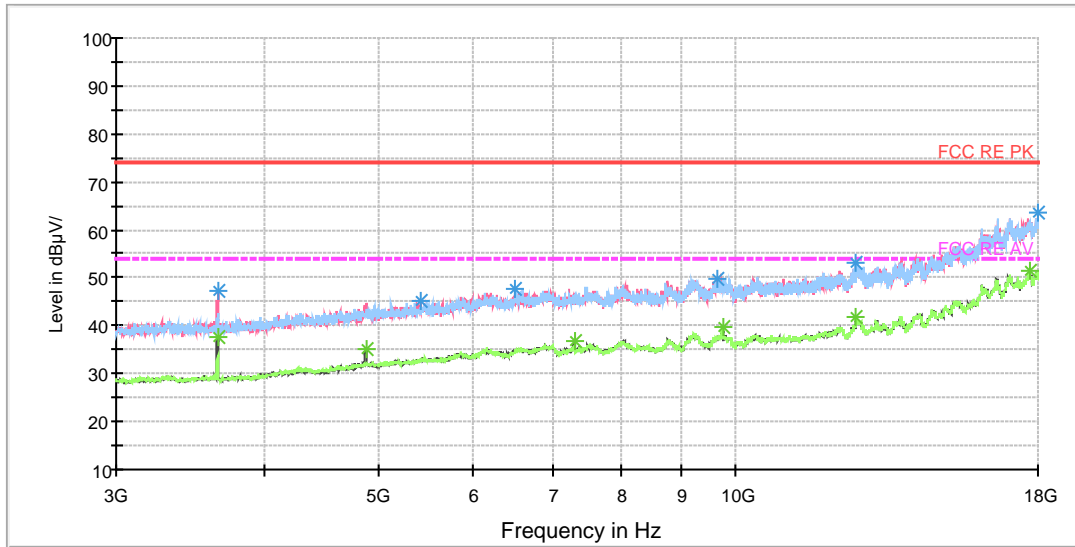
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1178.250000	43.4	101.0	H	109.0	51.4	-8.0	30.6	74
1402.000000	44.1	101.0	V	343.0	51.2	-7.1	29.9	74
1643.000000	45.9	101.0	V	209.0	50.7	-4.8	28.1	74
2046.250000	47.6	101.0	H	218.0	50.8	-3.2	26.4	74
2279.000000	50.1	101.0	H	64.0	51.4	-1.3	23.9	74
2998.500000	53.8	101.0	H	150.0	56.1	2.3	20.2	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)
1185.000000	30.9	101.0	V	43.0	39.0	-8.1	23.1	54
1419.500000	31.8	101.0	H	150.0	38.7	-6.9	22.2	54
1640.000000	34.5	101.0	V	357.0	39.2	-4.7	19.5	54
1961.500000	36.0	101.0	V	276.0	39.2	-3.2	18.0	54
2283.250000	37.8	101.0	V	357.0	39.2	-1.4	16.2	54
2992.750000	42.1	101.0	H	0.0	44.3	2.2	11.9	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)
3656.250000	47.4	101.0	V	230.0	49.3	-1.9	26.6	74
5428.125000	45.1	101.0	V	322.0	47.9	2.8	28.9	74
6523.125000	47.7	101.0	H	157.0	53.2	5.5	26.3	74
9646.875000	50.0	101.0	V	0.0	59.8	9.8	24.0	74
12637.500000	53.3	101.0	H	112.0	67.6	14.3	20.7	74
17994.375000	63.7	101.0	V	78.0	89.0	25.3	10.3	74

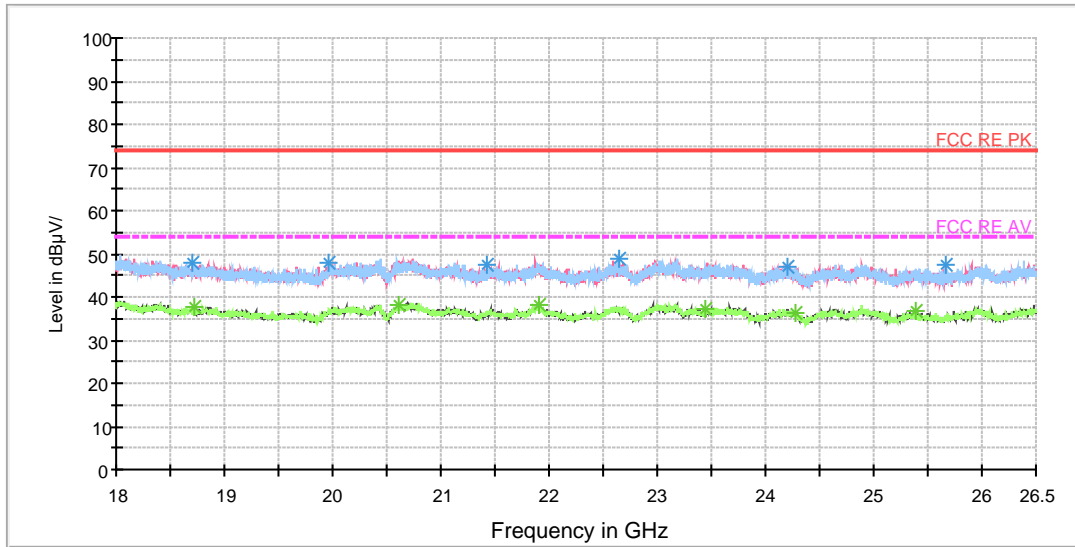
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3656.250000	37.4	101.0	V	230.0	39.3	-1.9	16.6	54
4875.000000	34.9	101.0	V	216.0	36.7	1.8	19.1	54
7306.875000	36.7	101.0	V	246.0	43.7	7.0	17.3	54
9750.000000	39.8	101.0	H	250.0	49.6	9.8	14.2	54
12645.000000	41.7	101.0	V	337.0	56.1	14.4	12.3	54
17703.750000	51.4	101.0	H	98.0	76.1	24.7	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)
18708.687500	47.8	H	85.0	52.2	-4.4	26.2	74
19966.687500	47.7	H	110.0	53.4	-5.7	26.3	74
21431.875000	47.5	V	314.0	55.5	-8.0	26.5	74
22653.750000	49.1	H	227.0	55.7	-6.6	24.9	74
24197.562500	46.9	V	228.0	52.8	-5.9	27.1	74
25670.187500	47.3	V	178.0	52.9	-5.6	26.7	74

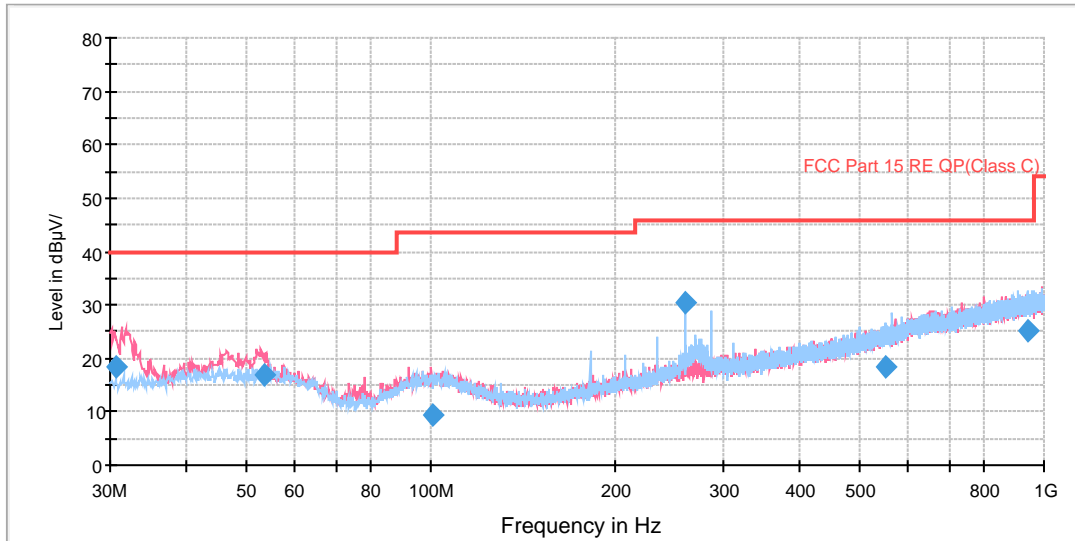
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18717.187500	37.8	V	339.0	42.2	-4.4	16.2	54
20606.312500	38.2	H	23.0	44.7	-6.5	15.8	54
21906.812500	37.9	H	23.0	45.9	-8.0	16.1	54
23451.687500	37.3	V	314.0	43.2	-5.9	16.7	54
24286.812500	36.4	H	201.0	42.4	-6.0	17.6	54
25382.250000	36.7	H	72.0	42.5	-5.8	17.3	54

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

802.11g CH11

FCC RE 0.03-1GHz QP Class C

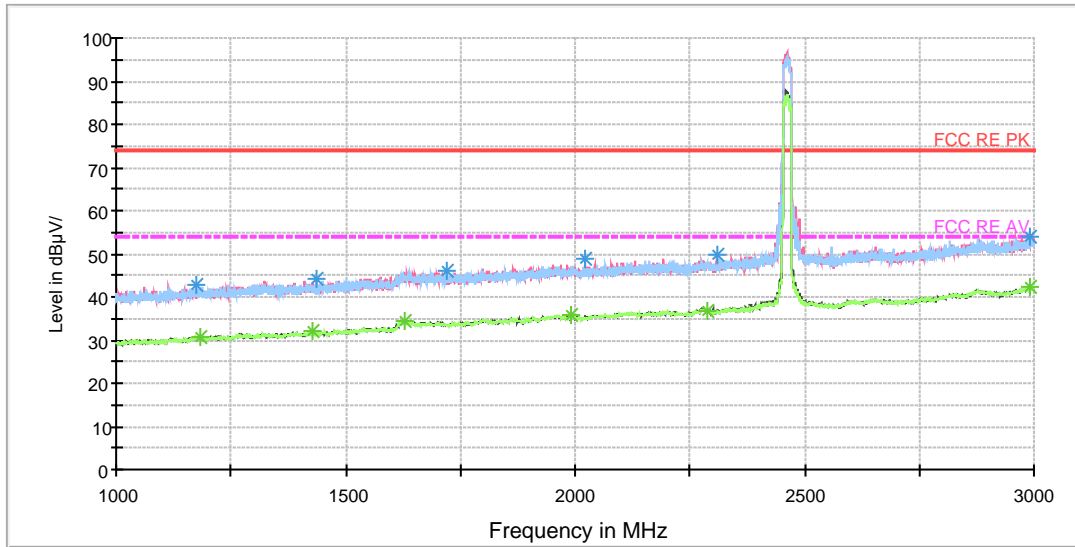


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.733750	18.6	100.0	V	288.0	30.5	11.9	21.4	40.0
53.407500	16.9	100.0	V	244.0	29.7	12.8	23.1	40.0
100.925000	9.5	114.0	V	45.0	22.7	13.2	34.0	43.5
260.011250	30.6	100.0	H	278.0	45.0	14.4	15.4	46.0
552.137500	18.6	114.0	H	82.0	39.7	21.1	27.4	46.0
940.905000	25.1	100.0	H	140.0	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-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

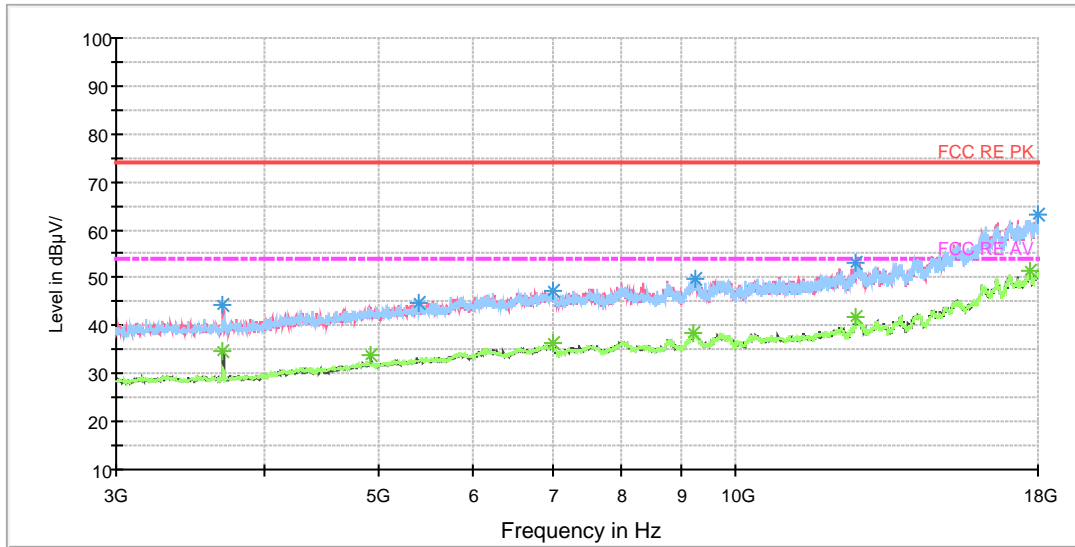
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1174.250000	42.7	101.0	H	189.0	50.7	-8.0	31.3	74
1437.000000	44.2	101.0	V	0.0	51.1	-6.9	29.8	74
1722.500000	46.0	101.0	H	316.0	51.0	-5.0	28.0	74
2020.000000	48.7	101.0	V	349.0	52.3	-3.6	25.3	74
2308.000000	49.9	101.0	V	0.0	51.9	-2.0	24.1	74
2991.000000	53.8	101.0	V	268.0	56.0	2.2	20.2	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)
1182.750000	30.9	101.0	V	0.0	38.9	-8.0	23.1	54
1430.000000	32.0	101.0	V	296.0	38.9	-6.9	22.0	54
1629.250000	34.4	101.0	V	0.0	39.1	-4.7	19.6	54
1991.000000	35.9	101.0	V	12.0	39.2	-3.3	18.1	54
2287.000000	36.9	101.0	V	349.0	38.5	-1.6	17.1	54
2992.750000	42.2	101.0	H	0.0	44.4	2.2	11.8	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

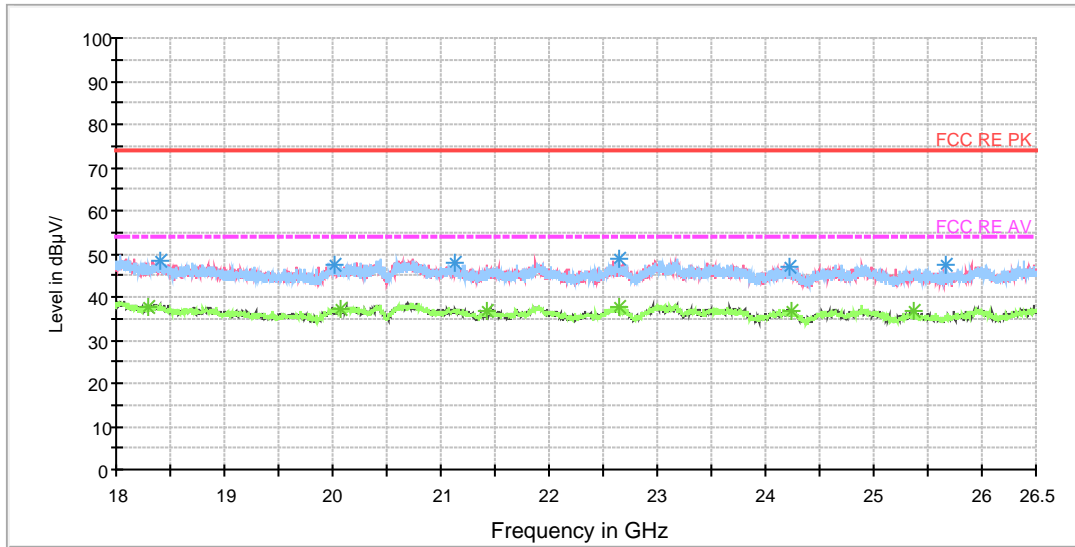
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3691.875000	44.4	101.0	V	233.0	46.1	-1.7	29.6	74
5409.375000	44.6	101.0	V	0.0	47.2	2.6	29.4	74
7008.750000	47.4	101.0	H	165.0	53.9	6.5	26.6	74
9243.750000	49.7	101.0	H	230.0	59.5	9.8	24.3	74
12641.250000	53.3	101.0	H	0.0	67.8	14.5	20.7	74
17986.875000	63.4	101.0	V	279.0	88.5	25.1	10.6	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)
3693.750000	34.8	101.0	V	233.0	36.4	-1.6	19.2	54
4921.875000	33.9	101.0	V	217.0	35.8	1.9	20.1	54
6999.375000	36.2	101.0	V	127.0	42.7	6.5	17.8	54
9228.750000	38.4	101.0	V	187.0	48.3	9.9	15.6	54
12641.250000	42.0	101.0	H	0.0	56.5	14.5	12.0	54
17709.375000	51.3	101.0	V	0.0	76.0	24.7	2.7	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)
18404.812500	48.3	H	85.0	51.8	-3.5	25.7	74
20013.437500	47.5	H	35.0	53.2	-5.7	26.5	74
21120.562500	47.8	H	35.0	55.4	-7.6	26.2	74
22653.750000	49.1	H	227.0	55.7	-6.6	24.9	74
24213.500000	47.2	V	290.0	53.1	-5.9	26.8	74
25670.187500	47.3	V	178.0	52.9	-5.6	26.7	74

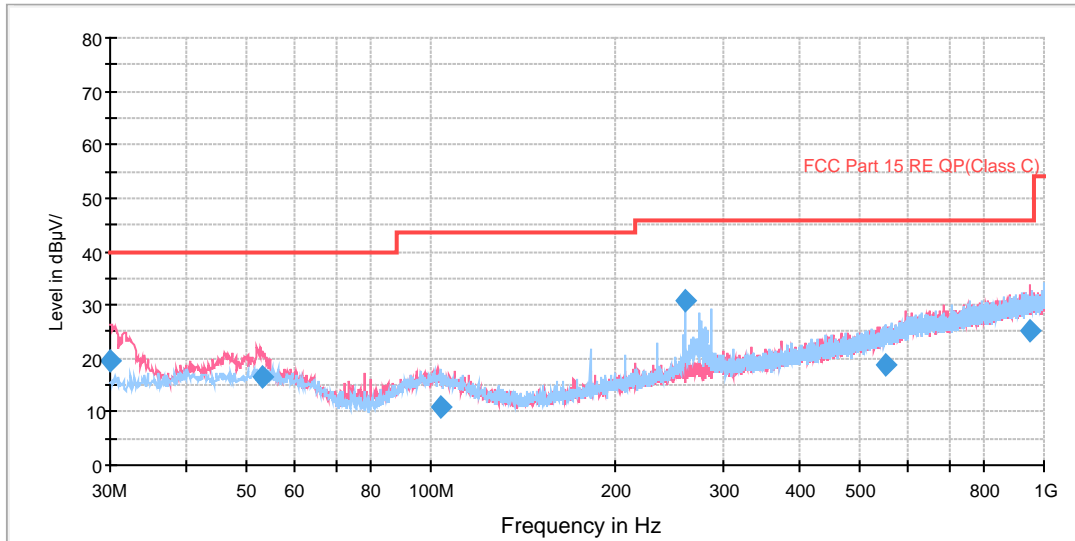
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18299.625000	37.8	V	314.0	40.9	-3.1	16.2	54
20069.750000	37.2	V	71.0	42.9	-5.7	16.8	54
21431.875000	36.9	V	314.0	44.9	-8.0	17.1	54
22647.375000	37.8	H	214.0	44.5	-6.7	16.2	54
24237.937500	36.9	H	292.0	42.8	-5.9	17.1	54
25369.500000	36.9	H	110.0	42.7	-5.8	17.1	54

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

802.11n (HT20) CH1

FCC RE 0.03-1GHz QP Class C

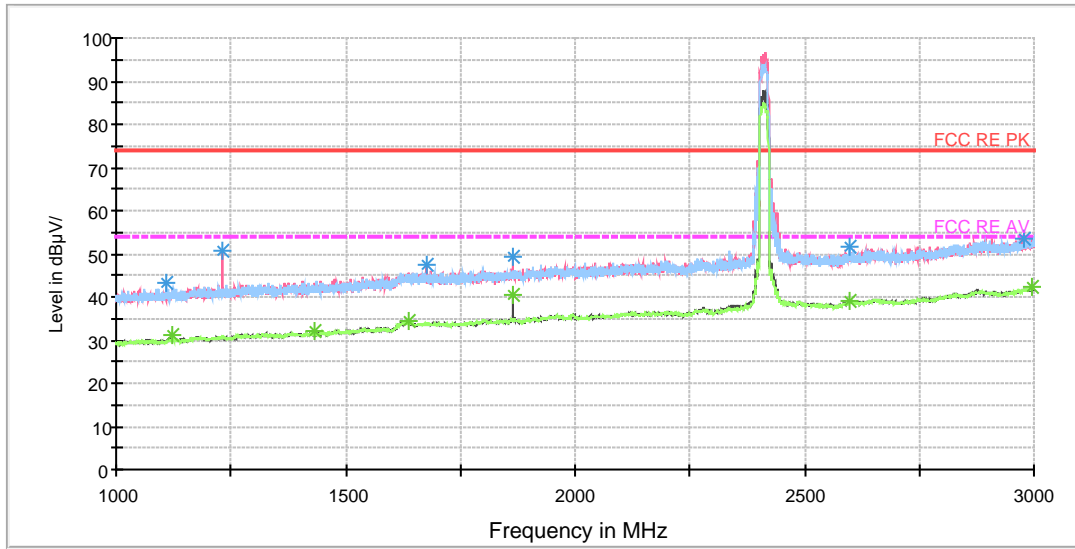


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.040000	19.4	100.0	V	0.0	31.3	11.9	20.6	40.0
53.286250	16.4	100.0	V	197.0	29.2	12.8	23.6	40.0
103.997500	11.0	125.0	H	161.0	23.9	12.9	32.5	43.5
260.011250	30.7	114.0	H	278.0	45.1	14.4	15.3	46.0
552.217500	18.6	100.0	H	22.0	39.7	21.1	27.4	46.0
947.985000	25.1	114.0	V	74.0	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-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

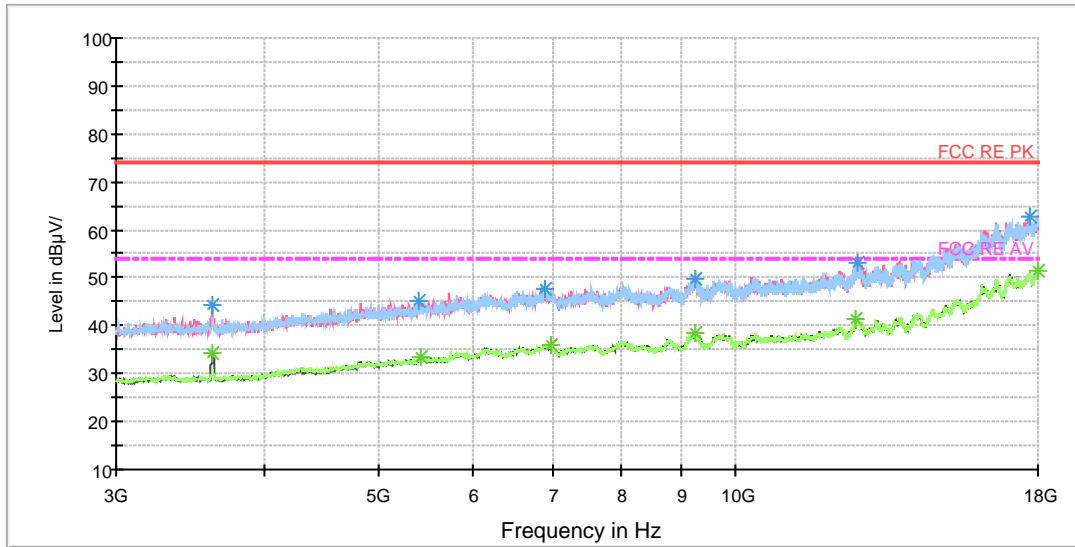
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1111.000000	43.2	101.0	H	194.0	51.9	-8.7	30.8	74
1231.250000	50.5	101.0	V	239.0	58.3	-7.8	23.5	74
1674.750000	47.3	101.0	V	333.0	52.4	-5.1	26.7	74
1865.250000	49.1	101.0	V	142.0	52.7	-3.6	24.9	74
2598.500000	51.7	101.0	H	97.0	52.0	0.3	22.3	74
2977.250000	53.7	101.0	V	306.0	55.9	2.2	20.3	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)
1124.250000	31.0	101.0	H	27.0	39.5	-8.5	23	54
1432.250000	31.9	101.0	H	261.0	38.8	-6.9	22.1	54
1638.000000	34.3	101.0	V	265.0	39.0	-4.7	19.7	54
1865.250000	40.3	101.0	V	142.0	43.9	-3.6	13.7	54
2597.500000	39.0	101.0	H	0.0	39.3	0.3	15.0	54
2997.000000	42.2	101.0	H	0.0	44.5	2.3	11.8	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)
3616.875000	44.4	101.0	V	202.0	46.4	-2.0	29.6	74
5398.125000	45.2	101.0	V	202.0	47.7	2.5	28.8	74
6911.250000	47.7	101.0	V	355.0	53.9	6.2	26.3	74
9230.625000	49.7	101.0	V	63.0	59.6	9.9	24.3	74
12675.000000	53.2	101.0	H	0.0	67.3	14.1	20.8	74
17690.625000	62.9	101.0	H	203.0	87.5	24.6	11.1	74

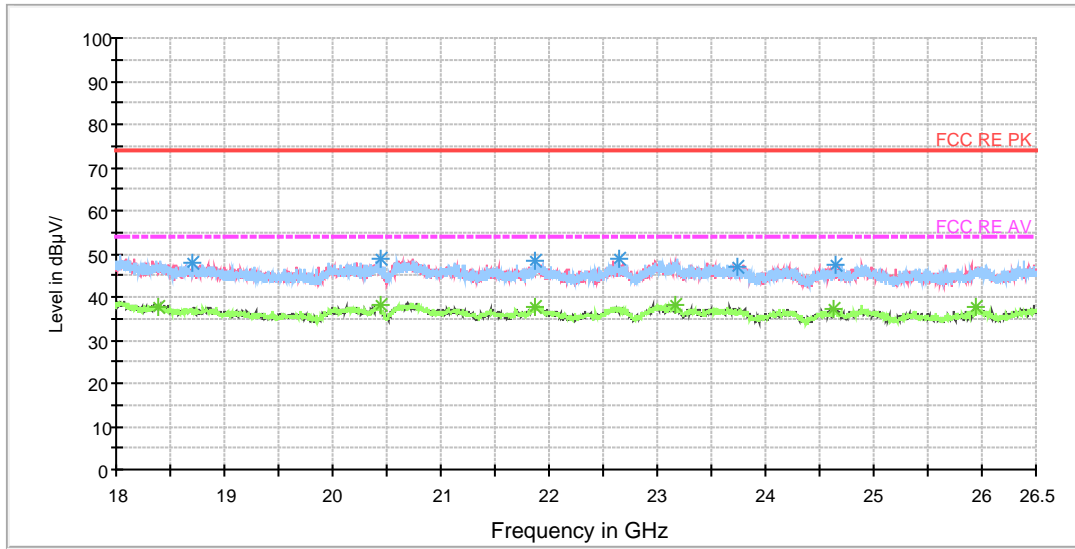
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3618.750000	34.3	101.0	V	355.0	36.3	-2.0	19.7	54
5424.375000	33.3	101.0	V	248.0	36.0	2.7	20.7	54
6993.750000	36.0	101.0	H	0.0	42.5	6.5	18.0	54
9232.500000	38.4	101.0	H	0.0	48.3	9.9	15.6	54
12646.875000	41.5	101.0	V	310.0	55.8	14.3	12.5	54
17998.125000	51.4	101.0	H	235.0	76.8	25.4	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)
18708.687500	47.8	H	85.0	52.2	-4.4	26.2	74
20441.625000	48.7	H	60.0	54.8	-6.1	25.3	74
21879.187500	48.2	V	290.0	56.2	-8.0	25.8	74
22653.750000	49.1	H	227.0	55.7	-6.6	24.9	74
23737.500000	47.1	H	23.0	53.0	-5.9	26.9	74
24645.937500	47.4	H	47.0	53.4	-6.0	26.6	74

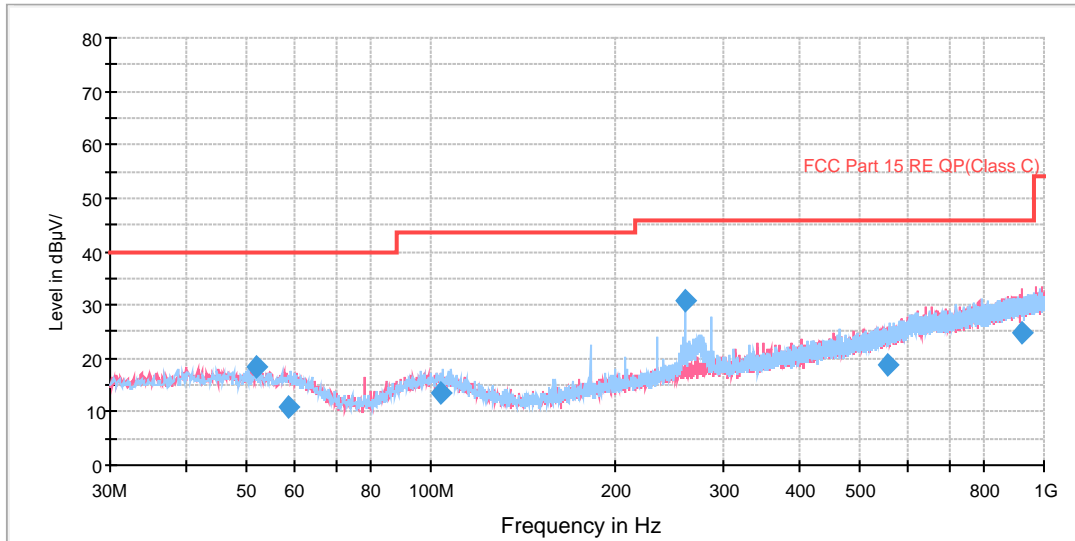
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18397.375000	37.8	H	0.0	41.3	-3.5	16.2	54
20444.812500	38.2	V	327.0	44.3	-6.1	15.8	54
21878.125000	37.8	V	0.0	45.8	-8.0	16.2	54
23158.437500	38.1	H	47.0	44.2	-6.1	15.9	54
24636.375000	37.4	V	166.0	43.4	-6.0	16.6	54
25936.875000	37.5	V	203.0	42.9	-5.4	16.5	54

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

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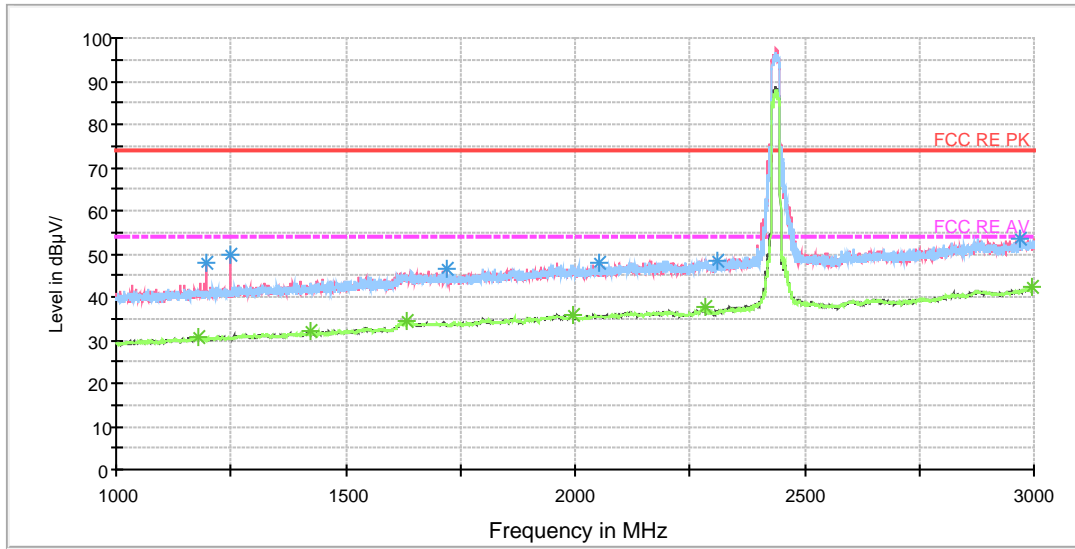


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
51.986250	18.2	100.0	V	258.0	31.1	12.9	21.8	40.0
58.661250	10.8	125.0	H	330.0	23.4	12.6	29.2	40.0
104.007500	13.5	125.0	H	17.0	26.4	12.9	30.0	43.5
260.011250	30.9	100.0	H	279.0	45.3	14.4	15.1	46.0
557.673750	18.8	100.0	V	166.0	40.0	21.2	27.2	46.0
923.526250	24.8	125.0	V	265.0	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

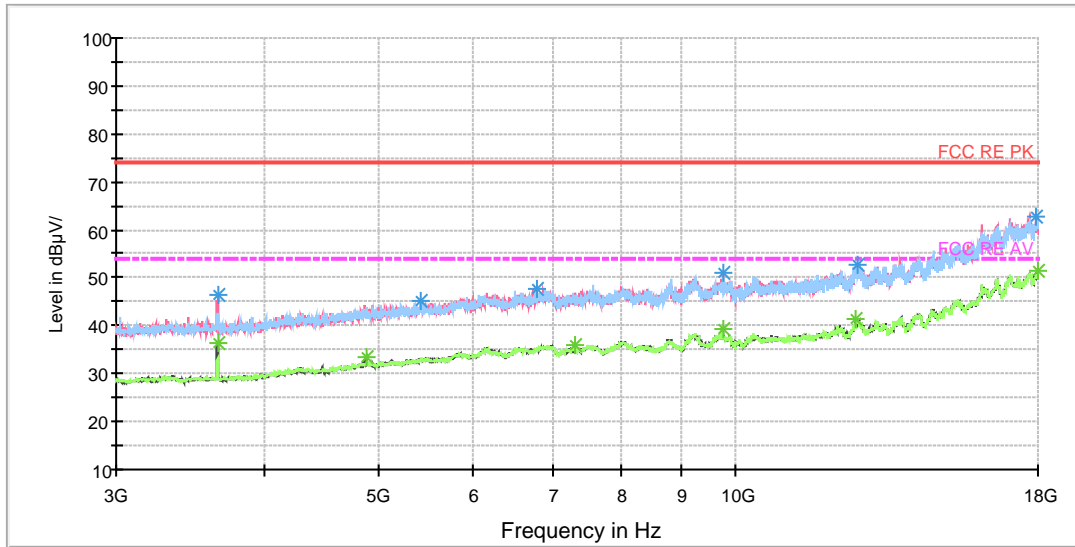
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1196.000000	47.7	101.0	V	331.0	55.9	-8.2	26.3	74
1248.750000	49.9	101.0	V	358.0	57.9	-8.0	24.1	74
1719.250000	46.7	101.0	V	0.0	51.6	-4.9	27.3	74
2052.250000	47.9	101.0	H	52.0	51.1	-3.2	26.1	74
2311.500000	48.4	101.0	V	318.0	50.3	-1.9	25.6	74
2968.500000	53.6	101.0	H	1.0	55.8	2.2	20.4	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)
1179.500000	30.8	101.0	H	152.0	38.8	-8.0	23.2	54
1422.500000	31.9	101.0	H	0.0	38.8	-6.9	22.1	54
1634.250000	34.4	101.0	V	142.0	39.1	-4.7	19.6	54
1995.500000	35.9	101.0	H	84.0	39.1	-3.2	18.1	54
2284.750000	37.5	101.0	V	358.0	39.0	-1.5	16.5	54
2996.000000	42.2	101.0	H	0.0	44.5	2.3	11.8	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

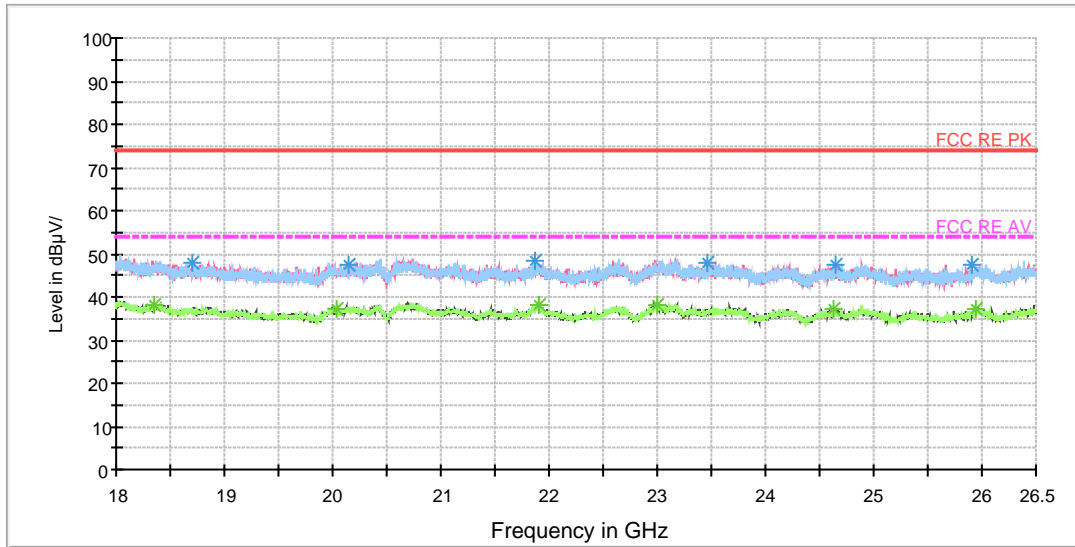
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3656.250000	46.4	101.0	V	251.0	48.3	-1.9	27.6	74
5426.250000	45.0	101.0	H	52.0	47.8	2.8	29.0	74
6806.250000	47.8	101.0	H	0.0	53.6	5.8	26.2	74
9750.000000	50.9	101.0	V	204.0	60.7	9.8	23.1	74
12667.500000	52.7	101.0	H	22.0	66.7	14.0	21.3	74
17930.625000	62.7	101.0	H	67.0	88.1	25.4	11.3	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)
3652.500000	36.5	101.0	V	204.0	38.4	-1.9	17.5	54
4873.125000	33.5	101.0	V	235.0	35.3	1.8	20.5	54
7312.500000	36.1	101.0	V	280.0	43.1	7.0	17.9	54
9750.000000	39.2	101.0	V	204.0	49.0	9.8	14.8	54
12646.875000	41.5	101.0	H	0.0	55.8	14.3	12.5	54
17996.250000	51.4	101.0	V	111.0	76.8	25.4	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)
18708.687500	47.8	H	85.0	52.2	-4.4	26.2	74
20142.000000	47.6	H	72.0	53.4	-5.8	26.4	74
21879.187500	48.2	V	290.0	56.2	-8.0	25.8	74
23469.750000	47.8	V	0.0	53.7	-5.9	26.2	74
24645.937500	47.4	H	47.0	53.4	-6.0	26.6	74
25898.625000	47.3	V	327.0	52.7	-5.4	26.7	74

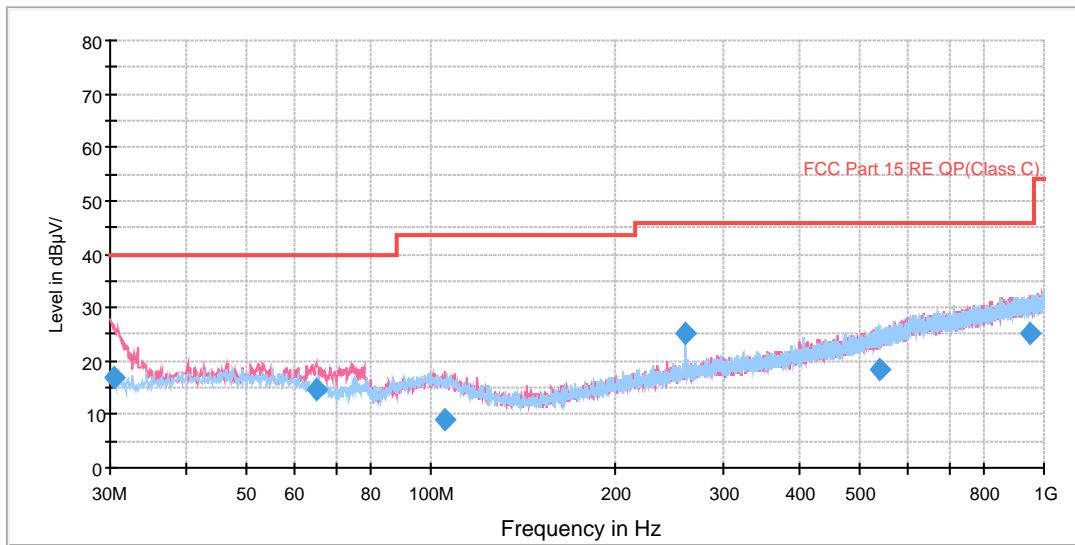
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18358.062500	38.3	V	327.0	41.6	-3.3	15.7	54
20043.187500	37.0	H	147.0	42.7	-5.7	17.0	54
21906.812500	37.9	H	23.0	45.9	-8.0	16.1	54
22995.875000	38.3	H	121.0	44.5	-6.2	15.7	54
24636.375000	37.4	V	166.0	43.4	-6.0	16.6	54
25944.312500	37.4	H	279.0	42.8	-5.4	16.6	54

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

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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)
30.400000	16.8	100.0	V	67.0	28.7	11.9	23.2	40.0
64.960000	14.5	125.0	V	129.0	25.1	10.6	25.5	40.0
105.060000	9.1	225.0	V	31.0	21.9	12.8	34.4	43.5
260.011250	25.2	100.0	H	292.0	39.6	14.4	20.8	46.0
541.347500	18.2	100.0	H	28.0	39.0	20.8	27.8	46.0
952.223750	25.1	125.0	V	82.0	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