



# TEST REPORT

No. I22N02494-WLAN 2.4GHz

for

**Honor Device Co., Ltd.**

**Smart Phone**

**Model Name: CRT-LX3**

with

**Hardware Version: HL3CRTM**

**Software Version: 6.1.0.90(C900E21R1P2)**

**FCC ID: 2AYGCCRT-LX3**

**Issued Date: 2022-12-09**

**Designation Number: CN1210**

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I22N0-2494-WLAN 2.4GHz	Rev.0	1st edition	2022-12-09

Note: the latest revision of the test report supersedes all previous versions.



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## 1. Summary of Test Report

### 1.1. Test Items

Description	Smart Phone
Model Name	CRT-LX3
Applicant's name	Honor Device Co., Ltd.
Manufacturer's Name	Honor Device Co., Ltd.

### 1.2. Test Standards

FCC Part15-2021; ANSI C63.10-2013.

### 1.3. Test Result

#### **Pass**

Please refer to "5.2. Test Results"

### 1.4. Testing Location

Address: EMC Laboratory, Building G, Shenzhen International Innovation Center, No.1006  
Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

### 1.5. Project data

Testing Start Date:	2022-12-01
Testing End Date:	2022-12-09

### 1.6. Signature

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Liu Xiangzhou  
(Prepared this test report)

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Liang Yong  
(Reviewed this test report)

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Cao Junfei  
(Approved this test report)



## **2. Client Information**

### **2.1. Applicant Information**

Company Name: Honor Device Co., Ltd.  
Address: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, P.R.China  
Contact Person Li Ming  
E-Mail liming136@honor.com  
Telephone: 0755-61886688  
Fax: /

### **2.2. Manufacturer Information**

Company Name: Honor Device Co., Ltd.  
Address: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, P.R.China  
Contact Person Li Ming  
E-Mail liming136@honor.com  
Telephone: 0755-61886688  
Fax: /



### **3. Equipment Under Test (EUT) and Ancillary Equipment (AE)**

#### **3.1. About EUT**

Description	Smart Phone
Model Name	CRT-LX3
RF Protocol	IEEE 802.11b/g/n-HT20
Operating Frequency	ISM 2412MHz~2462MHz
Type of Modulation	DSSS/CCK/OFDM
Antenna Type	Integrated antenna
Power Supply	3.89V DC by Battery
FCC ID	2AYGCCRT-LX3
Condition of EUT as received	No abnormality in appearance

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

#### **3.2. Internal Identification of EUT used during the test**

EUT ID*	SN or IMEI	HW Version	SW Version	Date of Receipt
UT04aa	866902060024650	HL3CRTM	6.1.0.90(C900E21R1 P2)	2022-12-01

\*EUT ID: is used to identify the test sample in the lab internally.

#### **3.3. Internal Identification of AE used during the test**

AE No.	Description	AE ID*
AE1	Battery	
AE2	Adapter	
AE3	Data Cable	
AE4	Headset	
AE5	Earphone, USB Type-C to 3.5mm Adapter Assembly	

##### AE1-1

Model	HB416594EGW
Manufacturer	Honor Device Co., Ltd.(SCUD)
Capacity	4400mAh
Nominal Voltage	3.89 V

##### AE1-2

Model	HB416594EGW
Manufacturer	Honor Device Co., Ltd.(Desay)
Capacity	4400mAh
Nominal Voltage	3.89 V

##### AE2-1

Model	HN-100225E00
Manufacturer	Honor Device Co., Ltd. (Huntkey/Salcomp)



AE2-2	
Model	HN-100225U00
Manufacturer	Honor Device Co., Ltd. (Huntkey/Salcomp)
AE2-3	
Model	HW-100225E00
Manufacturer	Honor Device Co., Ltd. (Huntkey)
AE2-4	
Model	HW-100225U00
Manufacturer	Honor Device Co., Ltd. (Huntkey)
AE2-5	
Model	HW-100225B00
Manufacturer	Honor Device Co., Ltd. (Huntkey)
AE2-6	
Model	HN-100225B00
Manufacturer	Honor Device Co., Ltd. (Huntkey/Salcomp)
AE3-1	
Model	CUDU01B-HC451-EH
Manufacturer	04072295(FF)
AE3-2	
Model	AU2-CRO013HF
Manufacturer	04072295(LJ)
AE3-3	
Model	L125UC007-CS-H
Manufacturer	04072295(LX)
AE3-4	
Model	2120-00001-0
Manufacturer	04072295(MG)
AE3-5	
Model	RY0002
Manufacturer	04072295(NB)
AE4-1	
Model	1331-3301-6001-TC-347
Manufacturer	22070347 (QC)
AE4-2	
Model	MEND1532B528C00
Manufacturer	22040339 (LC)
AE4-3	
Model	1293-3283-3.5MM-339
Manufacturer	22040339 (QC)
AE5	
Model	USB042020090AW7
Manufacturer	22040348(LC)

\*AE ID: is used to identify the test sample in the lab internally.



AE: ancillary equipment.

AE2: The circuit boards of AE2-2 and AE2-6 are the same, the circuit boards of AE2-4 and AE2-5 are the same.

### **3.4. General Description**

The Equipment under Test (EUT) is a model of Smart Phone with integrated antenna and battery.

It consists of normal options: Battery, Adapter, Data Cable, Headset.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.





#### **4. Reference Documents**

##### **4.1. Documents supplied by applicant**

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

##### **4.2. Reference Documents for testing**

The following documents listed in this section are referred for testing.

<b>Reference</b>	<b>Title</b>	<b>Version</b>
FCC Part15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz	2021
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013



## 5. Test Results

### 5.1. Testing Environment

Normal Temperature: 15~35°C

Relative Humidity: 20~75%

### 5.2. Test Results

No	Test cases	Sub-clause of Part 15C	Verdict
1	Radiated Emission	15.247, 15.205, 15.209	P
2	AC Power line Conducted	15.207	P

See **ANNEX A** for details.

### 5.3. Statements

SAICT has evaluated the test cases requested by the applicant/matrixurer as listed in section 5.2 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2.

Disclaimer:

A. After confirmation with the customer, the sample information provided by the customer may affect the validity of the measurement results in this report, and the impact and consequences arising therefrom shall be borne by the customer.

B. The samples in this report are provided by the customer, and the test results are only applicable to the samples received.



## 6. Measuring Apparatus Utilized

### Radiated test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Test Receiver	ESR7	101676	Rohde & Schwarz	2023-11-23	1 year
2	BiLog Antenna	3142E	0224831	ETS-Lindgren	2024-05-27	3 years
3	Horn Antenna	3117	00066577	ETS-Lindgren	2025-04-17	3 years
4	Anechoic Chamber	FACT3-2.0	1285	ETS-Lindgren	2023-05-29	2 years
5	Spectrum Analyzer	FSV40	101192	Rohde & Schwarz	2023-01-12	1 year
6	Loop Antenna	HLA6120	35779	TESEQ	2025-05-10	3 years
7	Horn Antenna	QSH-SL-1 8-26-S-20	17013	Q-par	2023-01-06	3 years
8	Test Receiver	ESCI	100702	Rohde & Schwarz	2023-01-12	1 year
9	LISN	ENV216	102067	Rohde & Schwarz	2023-07-14	1 year

### Test software

No.	Equipment	Manufacturer	Version
1	EMC32	Rohde & Schwarz	10.50.40

EUT is engineering software provided by the customer to control the transmitting signal. The EUT was programmed to be in continuously transmitting mode.



## 7. Laboratory Environment

**Shielded room** did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz > 60 dB; 1MHz-18000MHz > 90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4Ω

**Anechoic chamber (FACT3-2.0)** did not exceed following limits along the EMC testing:

9.10m×6.10m×5.60m (L×W×H)

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz > 60 dB; 1MHz-18000MHz > 90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4Ω
Normalised site attenuation (NSA)	< ±4 dB, 3 m distance, from 30 to 1000 MHz
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18 GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz



## 8. Measurement Uncertainty

Test Name	Uncertainty ( $k=2$ )	
Radiated Emission	9kHz $\leq$ f<30MHz	1.79dB
	30MHz $\leq$ f<1GHz	4.86dB
	1GHz $\leq$ f<18GHz	4.82dB
	18GHz $\leq$ f $\leq$ 40GHz	2.90dB
AC Power line Conducted Emission	150kHz $\leq$ f $\leq$ 30MHz	2.62dB

## **ANNEX A: Detailed Test Results**

### **Test Configuration**

The measurement is made according to ANSI C63.10.

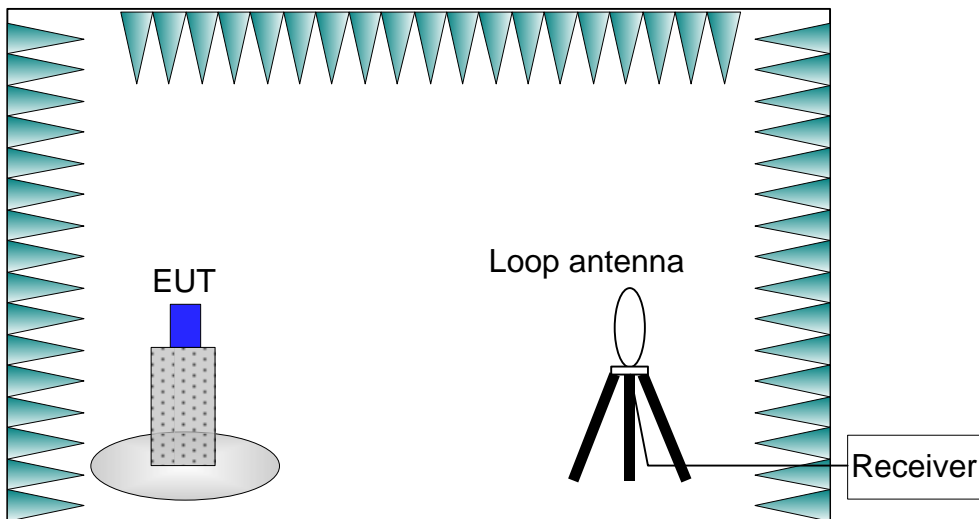
#### **1) Radiated Measurements**

##### **Test setup:**

##### **9kHz-30MHz:**

The EUT are measured in a anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The test setup refers to figure below.

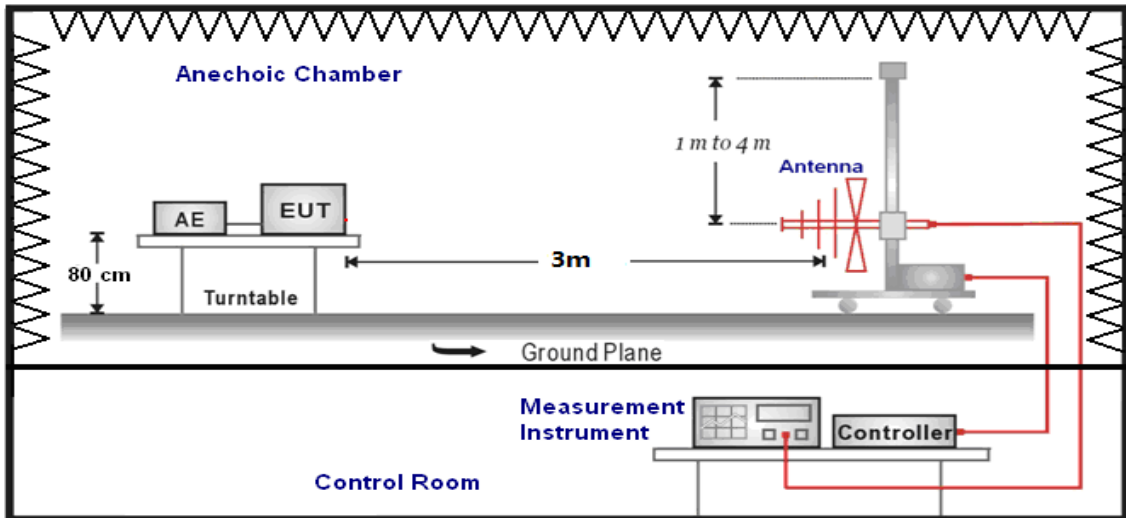
Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.



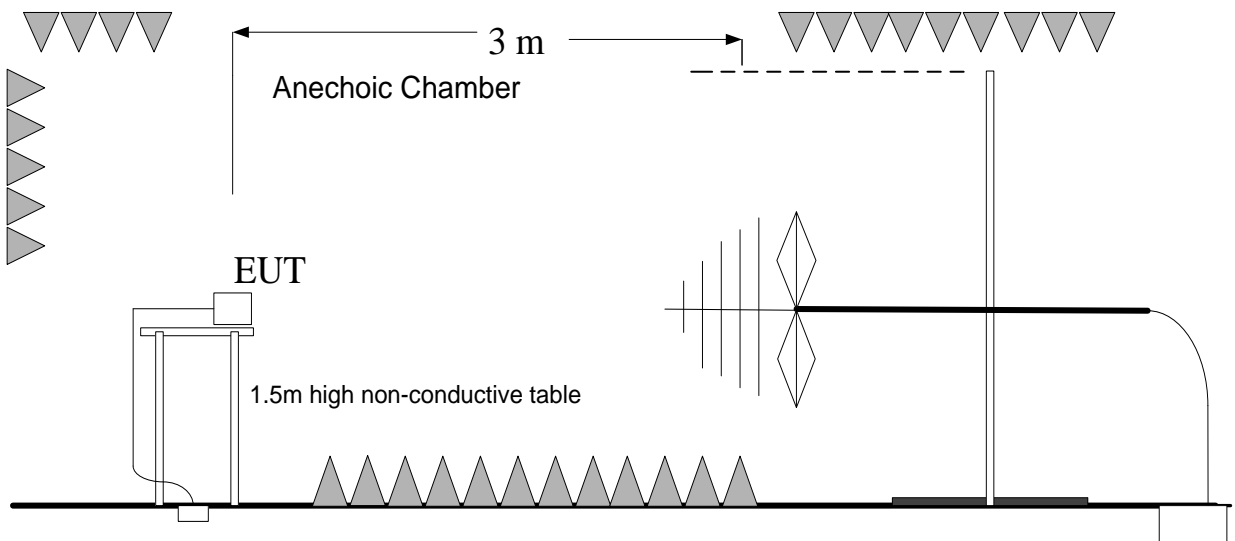
**30MHz-26.5GHz:**

The EUT are measured in an anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving antenna is 1.0 meter to 4.0 meter above the ground. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.

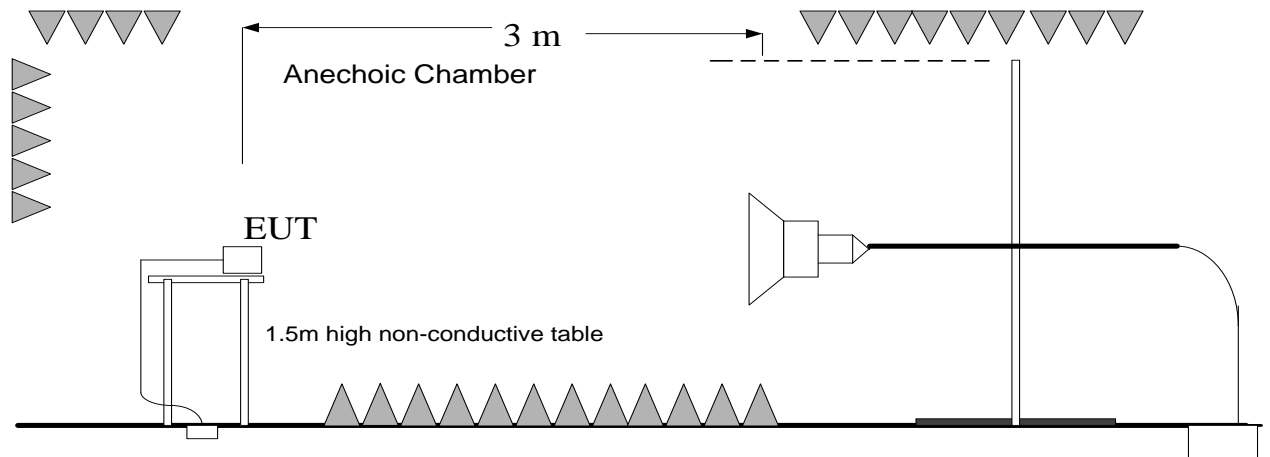
**30MHz-1GHz:**



**1GHz-3GHz:**

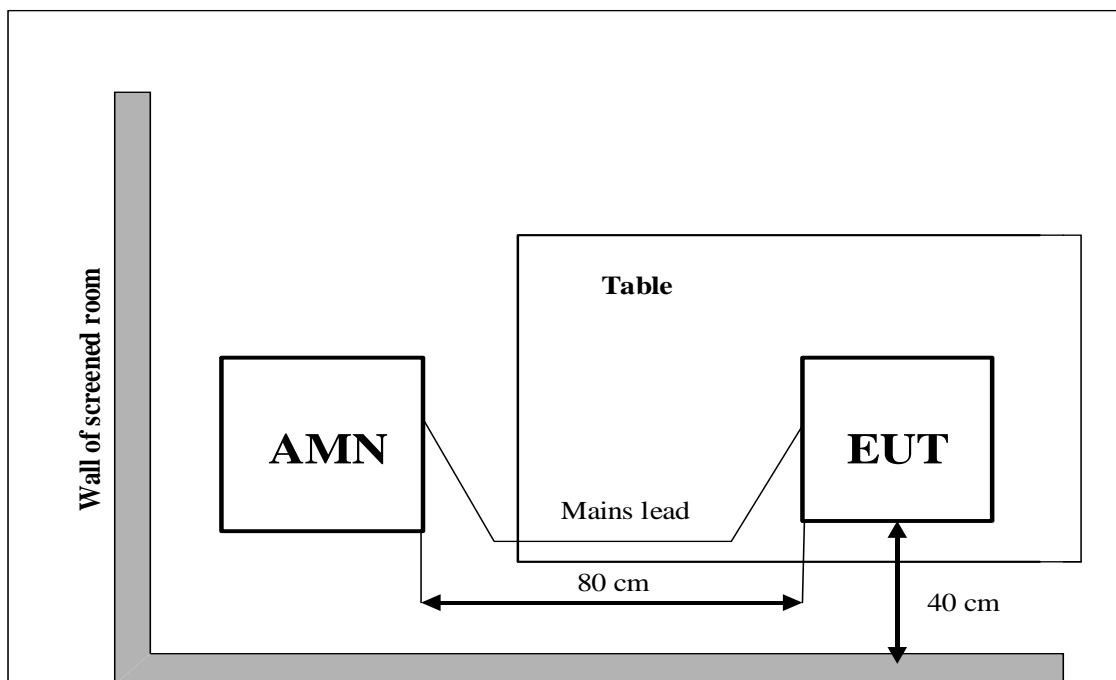


**3GHz-26.5GHz:**



**2) AC Power line Conducted Emission Measurement**

For WLAN, the EUT is working under test mode. The EUT is commanded to operate at maximum transmitting power.





**A.1 Radiated Emission****Method of Measurement: See ANSI C63.10-clause 11.11&11.12.****Measurement Limit:**

Standard	Limit (dBm)
FCC 47 CFR Part 15.247, 15.205, 15.209	20dBm below peak output power

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( $\mu\text{V/m}$ )	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

**Test Condition:**

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz/300kHz	5
1000-4000	1MHz/3MHz	15
4000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

**Note:** According to the performance evaluation, the radiated emission margin of EUT is over 20dB in the band from 9kHz to 30MHz. Therefore, the measurement starts from 30MHz to tenth harmonic. The measurement results include the horizontal polarization and vertical polarization measurements. For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.



**Measurement Results:**

Mode	Frequency (MHz)	Frequency Range	Test Results	Conclusion
802.11b	2412(CH1)	1 GHz ~18 GHz	Fig.1	<b>P</b>
	2437(CH6)	1 GHz ~18 GHz	Fig.2	<b>P</b>
	2462(CH11)	1 GHz ~18 GHz	Fig.3	<b>P</b>
	Restricted Band (CH1)	2.38 GHz ~ 2.45 GHz	Fig.4	<b>P</b>
	Restricted Band (CH11)	2.45 GHz ~ 2.5 GHz	Fig.5	<b>P</b>
802.11g	2412(CH1)	1 GHz ~18 GHz	Fig.6	<b>P</b>
	2437(CH6)	1 GHz ~18 GHz	Fig.7	<b>P</b>
	2462(CH11)	1 GHz ~18 GHz	Fig.8	<b>P</b>
	Restricted Band (CH1)	2.38 GHz ~ 2.45 GHz	Fig.9	<b>P</b>
	Restricted Band (CH11)	2.45 GHz ~ 2.5 GHz	Fig.10	<b>P</b>
802.11n- HT20	2412(CH1)	1 GHz ~18 GHz	Fig.11	<b>P</b>
	2437(CH6)	1 GHz ~18 GHz	Fig.12	<b>P</b>
	2462(CH11)	1 GHz ~18 GHz	Fig.13	<b>P</b>
	Restricted Band (CH1)	2.38 GHz ~ 2.45 GHz	Fig.14	<b>P</b>
	Restricted Band (CH11)	2.45 GHz ~ 2.5 GHz	Fig.15	<b>P</b>
/	All Channels	9 kHz ~30 MHz	Fig.16	<b>P</b>
		30 MHz ~1 GHz	Fig.17	<b>P</b>
		18 GHz ~26.5 GHz	Fig.18	<b>P</b>



**Worst-Case Result:**

**802.11b CH11 (1-18GHz)**

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
3519.900000	44.61	74.00	29.39	H	0.0
4306.200000	45.96	74.00	28.04	H	3.0
4923.900000	54.14	74.00	19.86	H	3.7
10453.714286	47.65	74.00	26.35	V	9.0
12384.428572	48.08	74.00	25.92	H	11.3
16958.142857	54.44	74.00	19.56	H	18.2

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
3519.900000	32.40	54.00	21.60	H	0.0
4306.200000	33.71	54.00	20.29	H	3.0
4923.900000	49.37	54.00	4.63	H	3.7
10453.714286	35.18	54.00	18.82	V	9.0
12384.428572	35.46	54.00	18.54	H	11.3
16958.142857	42.05	54.00	11.95	H	18.2

**802.11g CH6 (1GHz-18GHz)**

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
4870.800000	46.03	74.00	27.97	H	3.7
7597.285714	46.10	74.00	27.90	H	5.7
10429.285714	47.04	74.00	26.96	V	9.0
12328.714286	48.27	74.00	25.73	V	11.1
12936.857143	48.90	74.00	25.10	V	10.9
16870.714286	54.37	74.00	19.63	V	18.0

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
4870.800000	34.22	54.00	19.78	H	3.7
7597.285714	32.60	54.00	21.40	H	5.7
10429.285714	35.00	54.00	19.00	V	9.0
12328.714286	35.74	54.00	18.26	V	11.1
12936.857143	36.07	54.00	17.93	V	10.9
16870.714286	41.79	54.00	12.21	V	18.0

**802.11n-HT20 CH6 (1GHz-18GHz)**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Pol	Corr. (dB/m)
4654.500000	46.88	74.00	27.12	V	4.6
5850.900000	47.60	74.00	26.40	V	4.7
7033.714286	44.70	74.00	29.30	V	5.1
9533.142857	45.86	74.00	28.14	V	7.1
12907.285714	48.50	74.00	25.50	H	11.0
17601.000000	54.09	74.00	19.91	H	18.2

Frequency (MHz)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Pol	Corr. (dB/m)
4654.500000	34.68	54.00	19.32	V	4.6
5850.900000	35.32	54.00	18.68	V	4.7
7033.714286	32.57	54.00	21.43	V	5.1
9533.142857	33.22	54.00	20.78	V	7.1
12907.285714	36.52	54.00	17.48	H	11.0
17601.000000	42.02	54.00	11.98	H	18.2

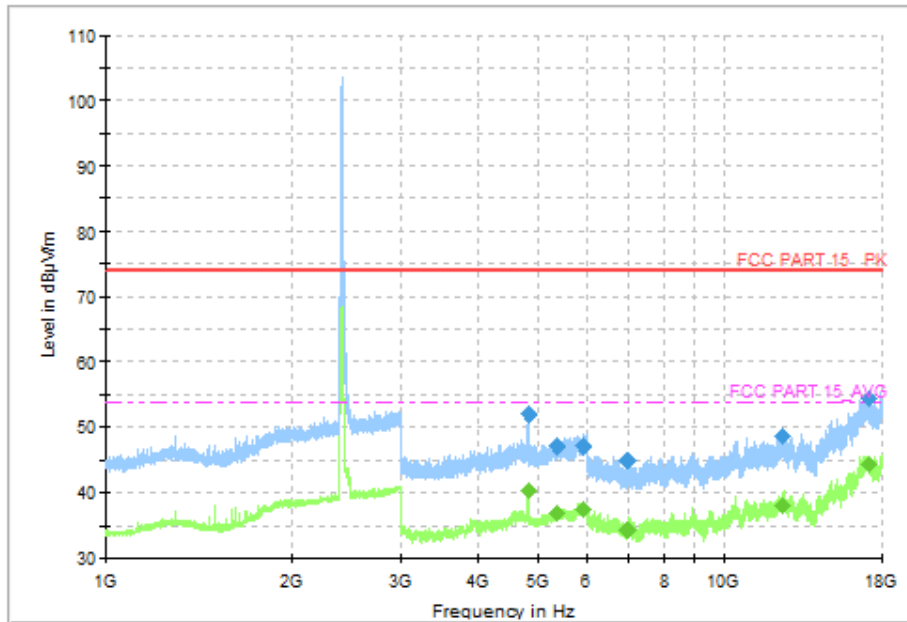
**Note:**

A "reference path loss" is established and the  $A_{Rpl}$  is the attenuation of "reference path loss", and Antenna Factor, the gain of the preamplifier, the cable loss.  $P_{Mea}$  is the field strength recorded from the instrument. The measurement results are obtained as described below:

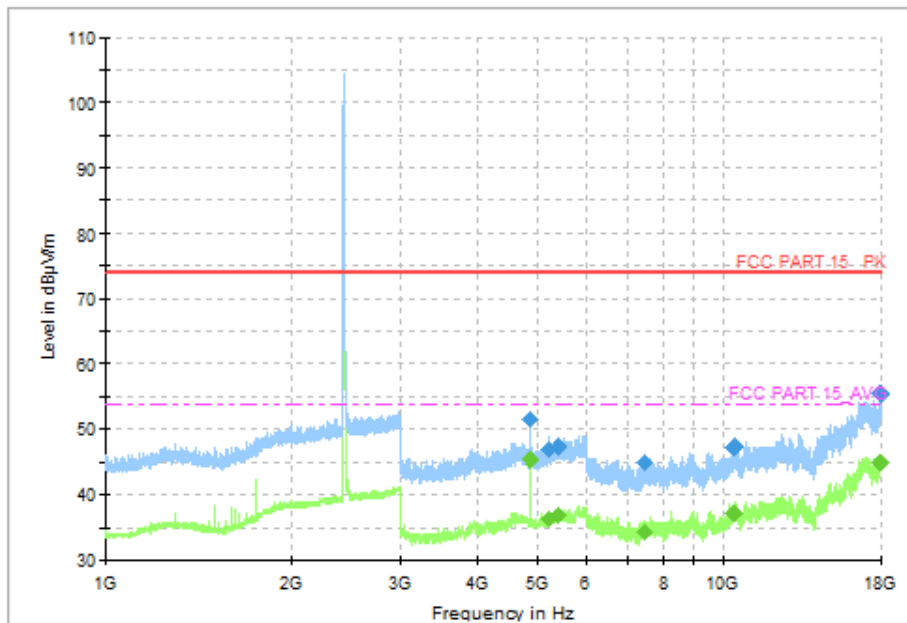
Result=  $P_{Mea}$  +Cable Loss +Antenna Factor-Gain of the preamplifier.

**See below for test graphs.**

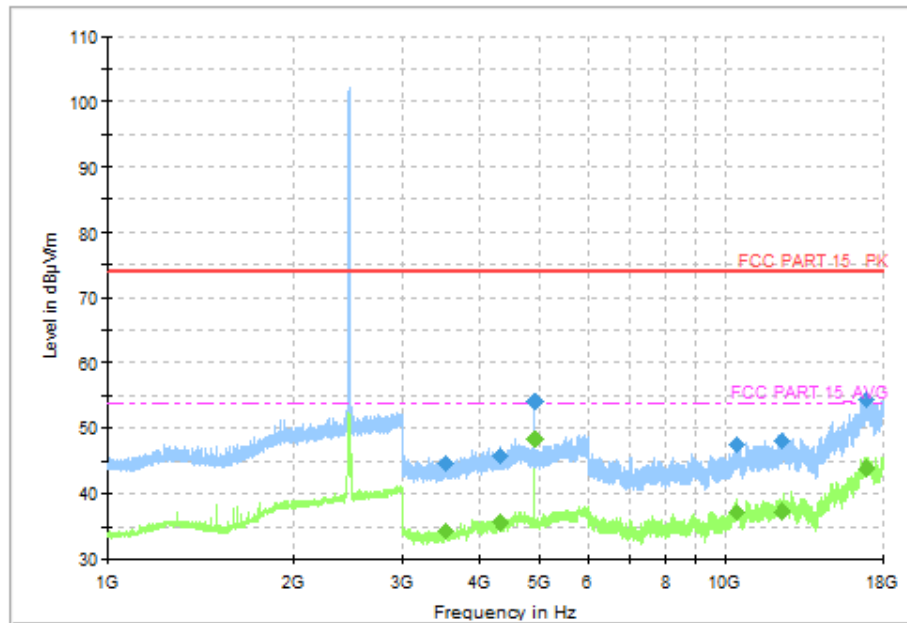
**Conclusion: PASS**



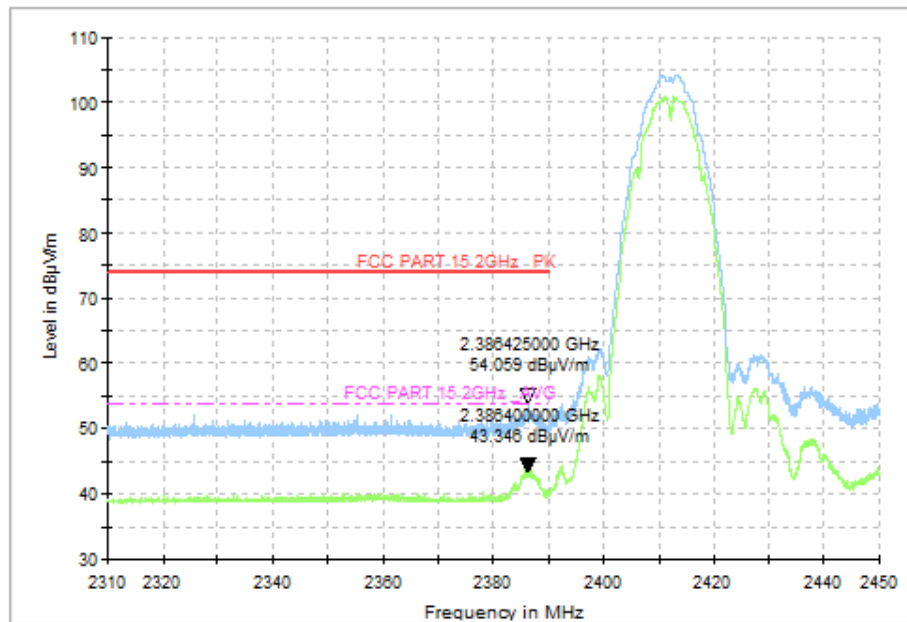
**Fig.1 Radiated Spurious Emission (802.11b, CH1, 1GHz-18GHz)**



**Fig.2 Radiated Spurious Emission (802.11b, CH6, 1GHz-18GHz)**



**Fig.3 Radiated Spurious Emission (802.11b, CH11, 1GHz-18GHz)**



**Fig.4 Radiated Restricted Band (802.11b, CH1, 2.38GHz~2.45GHz)**

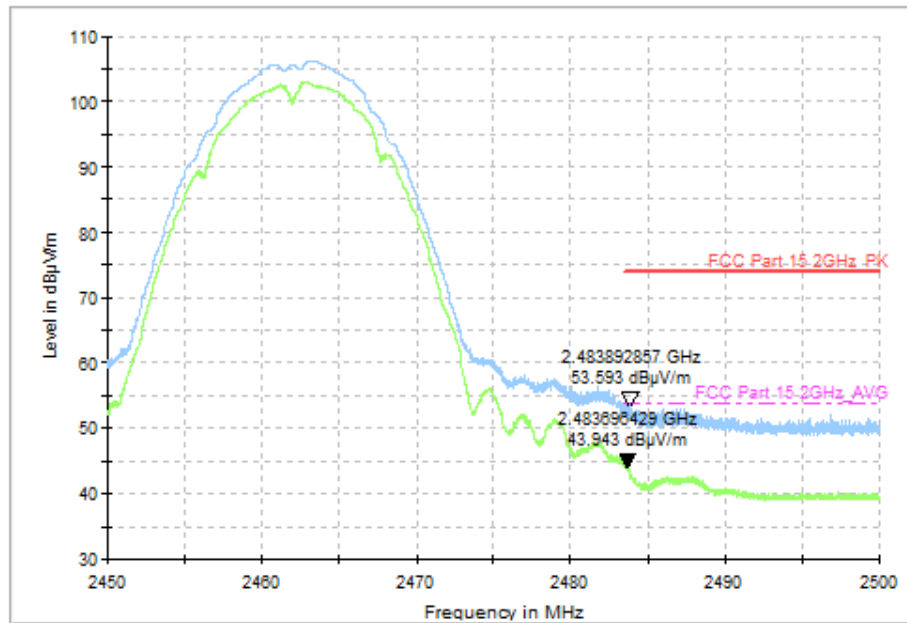


Fig.5 Radiated Restricted Band (802.11b, CH11, 2.45GHz~2.50GHz)

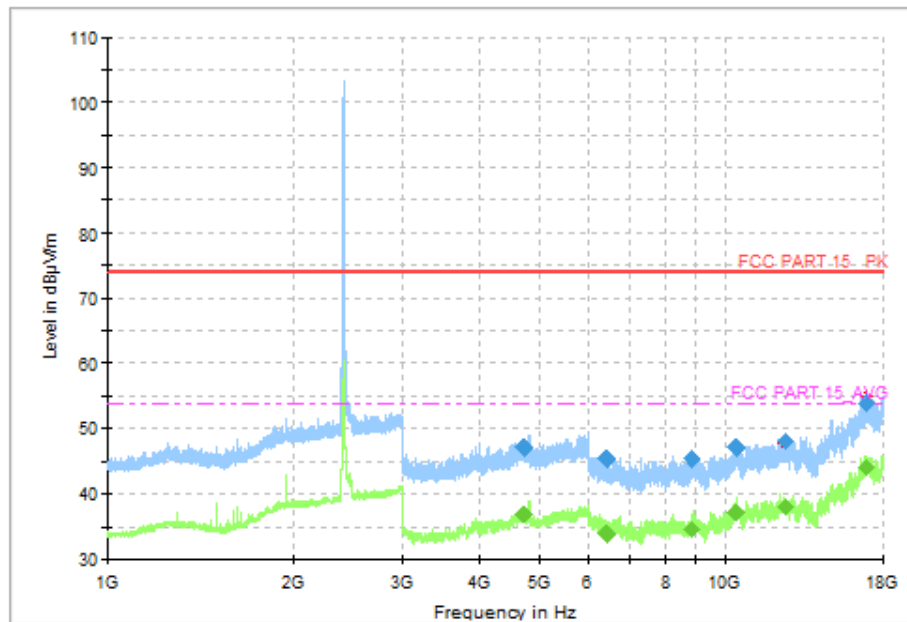


Fig.6 Radiated Spurious Emission (802.11g, CH1, 1GHz-18GHz)

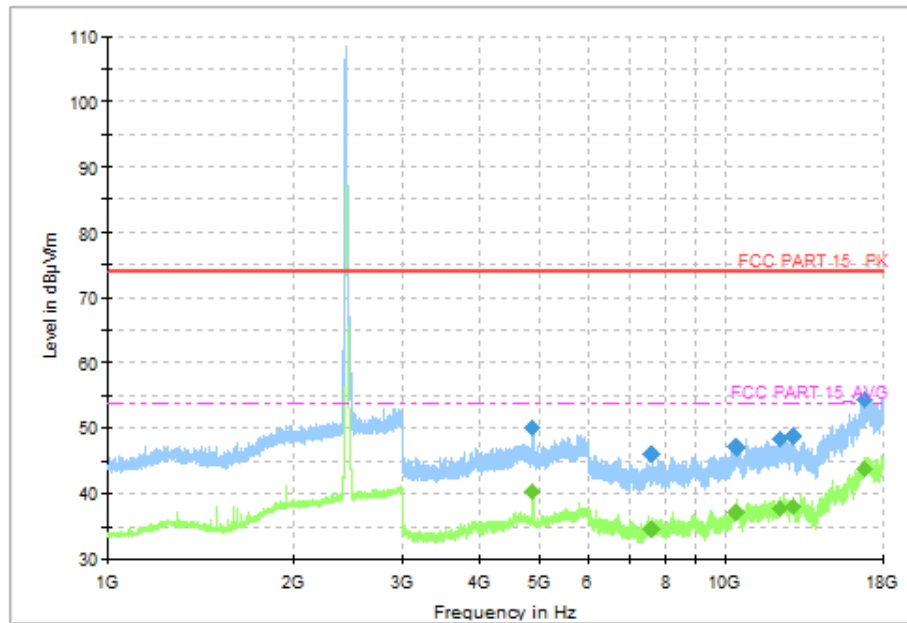


Fig.7 Radiated Spurious Emission (802.11g, CH6, 1GHz-18GHz)

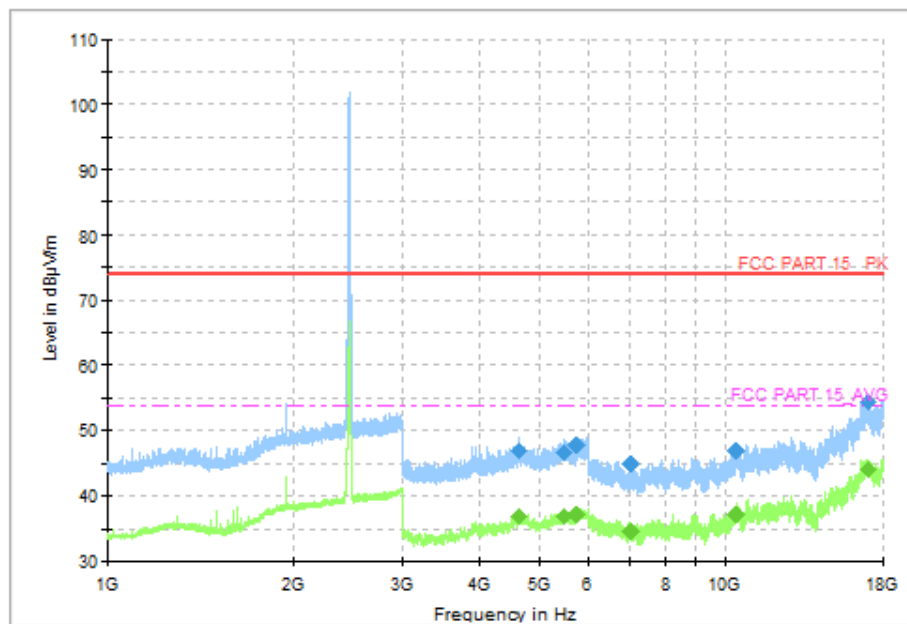


Fig.8 Radiated Spurious Emission (802.11g, CH11, 1GHz-18GHz)



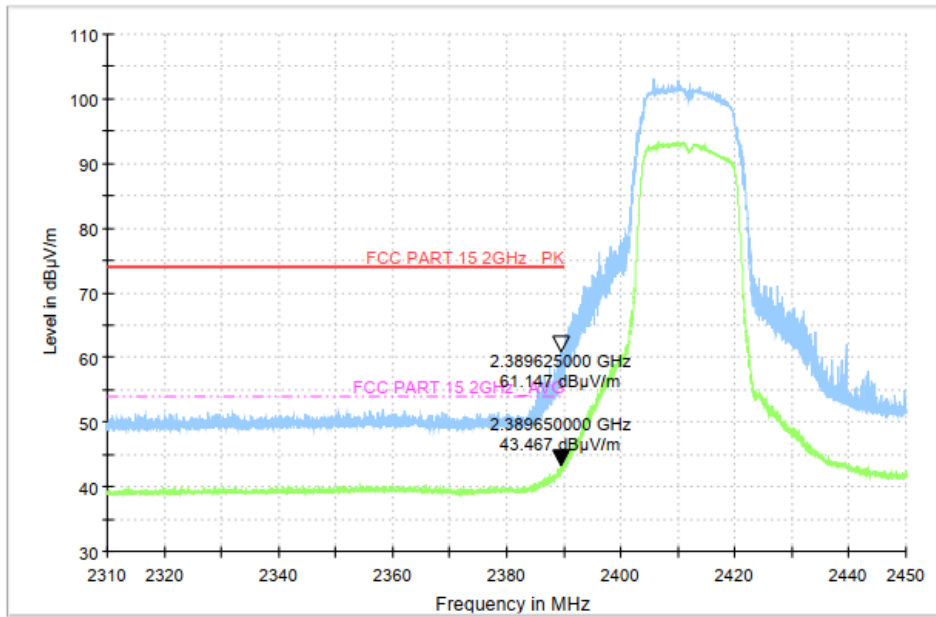


Fig.9 Radiated Restricted Band (802.11g, CH1, 2.38GHz~2.45GHz)

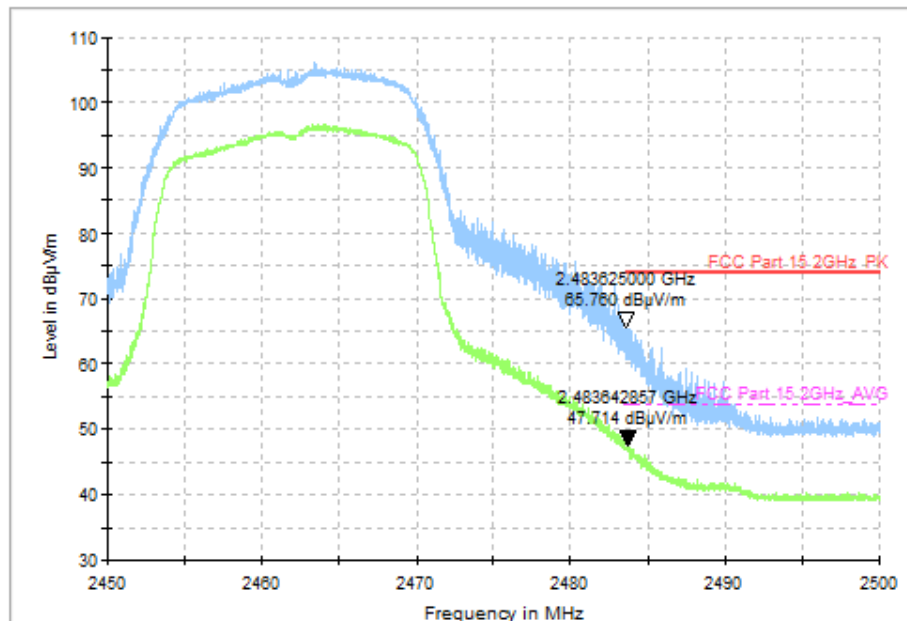


Fig.10 Radiated Restricted Band (802.11g, CH11, 2.45GHz~2.50GHz)

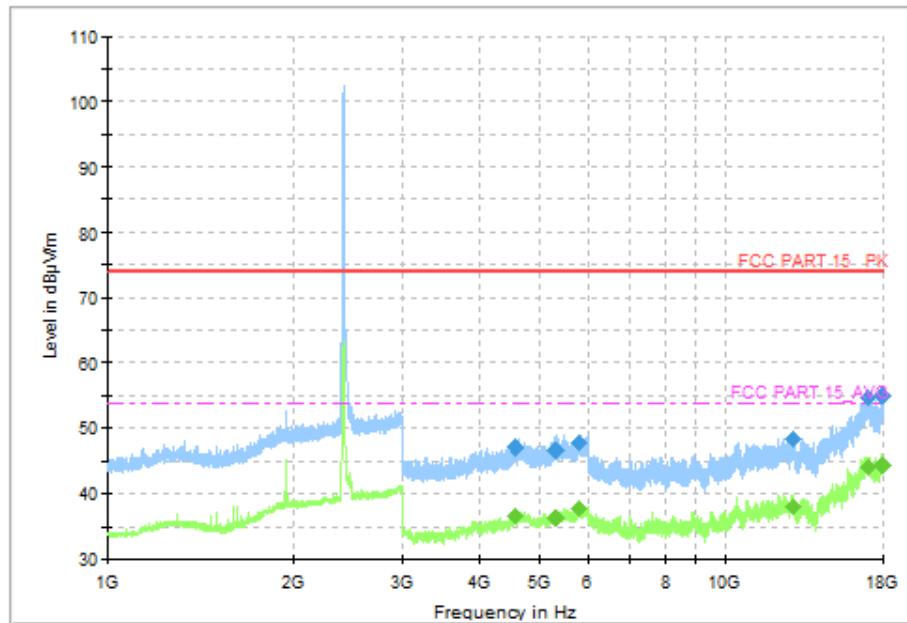


Fig.11 Radiated Spurious Emission (802.11n-HT20, CH1, 1GHz-18GHz)

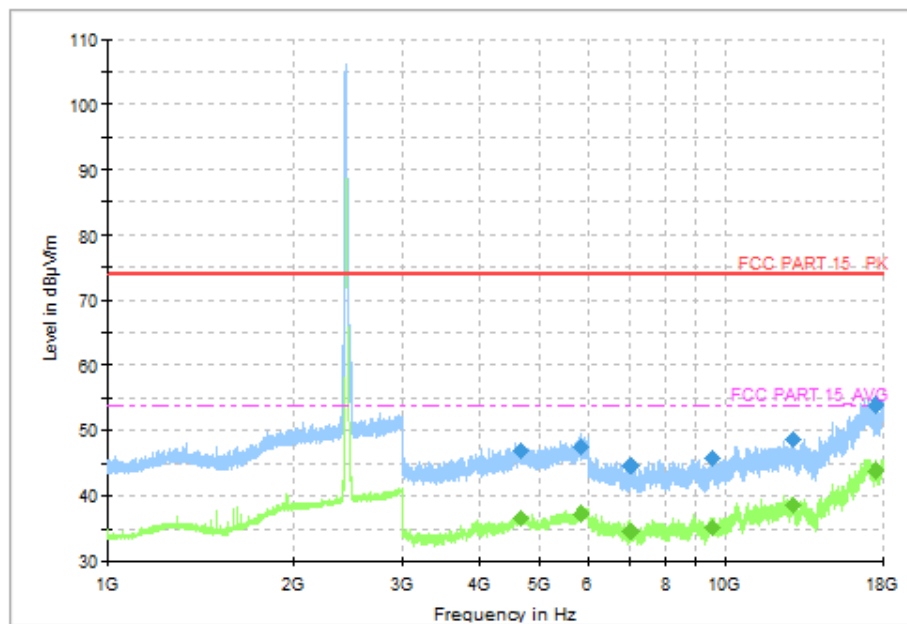


Fig.12 Radiated Spurious Emission (802.11n-HT20, CH6, 1GHz-18GHz)

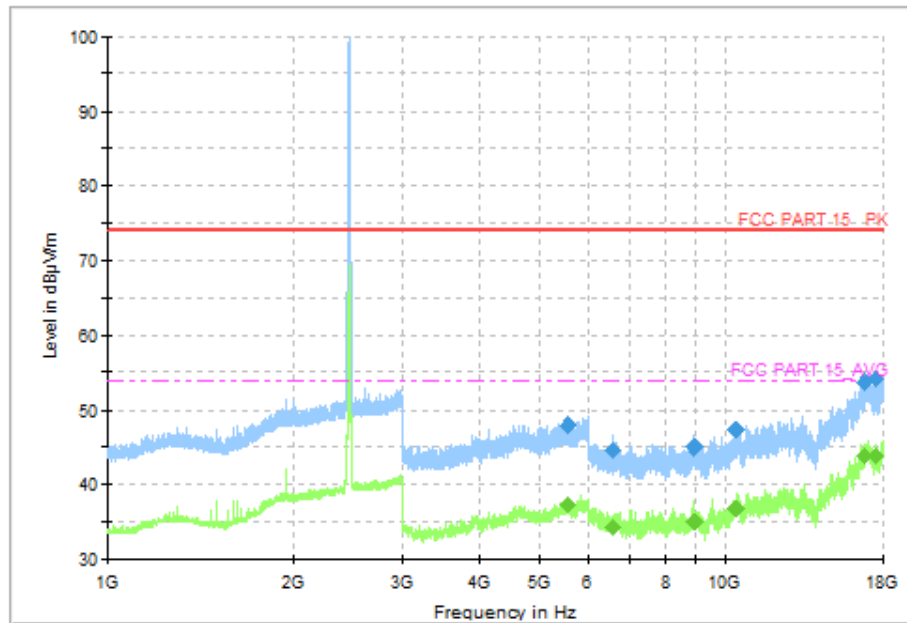


Fig.13 Radiated Spurious Emission (802.11n-HT20, CH11, 1GHz-18GHz)

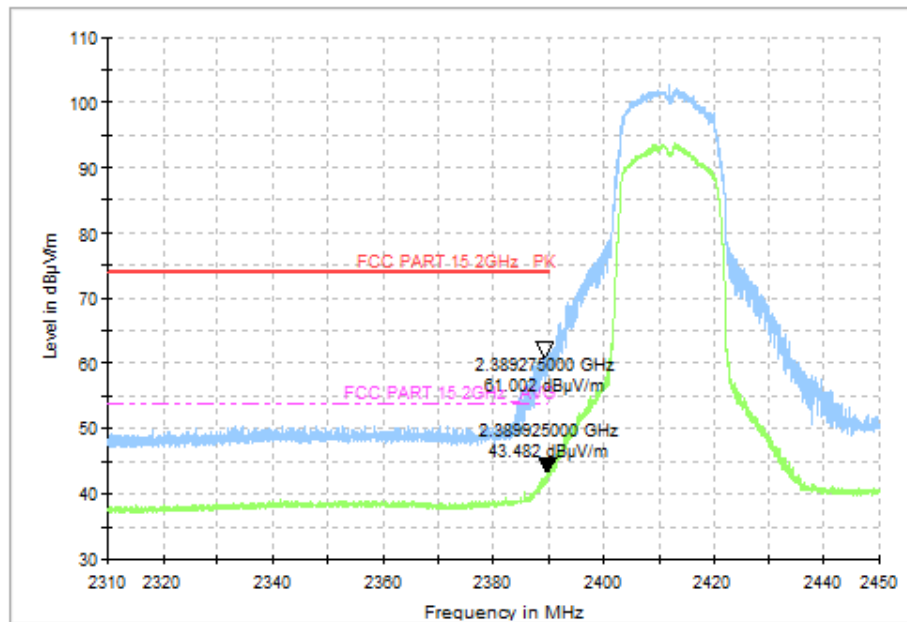


Fig.14 Radiated Restricted Band (802.11n-HT20, CH1, 2.38GHz~2.45GHz)

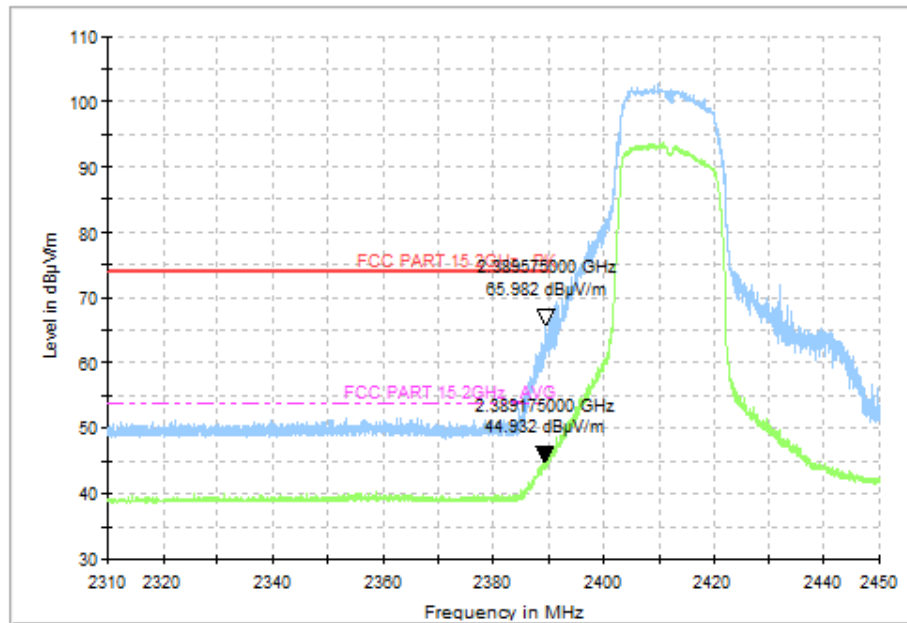


Fig.15 Radiated Spurious Emission (802.11n-HT20, CH11, 2.45GHz~2.50GHz)

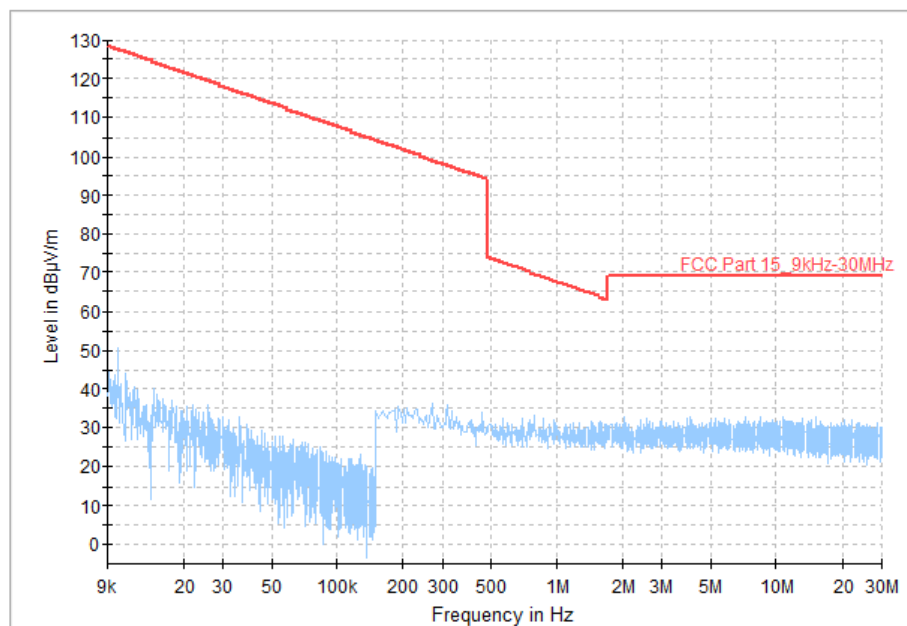
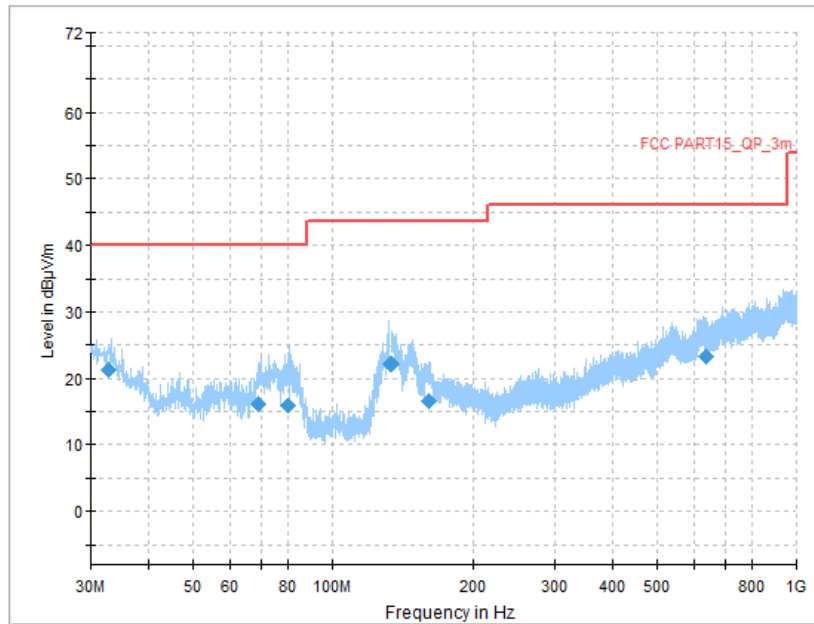
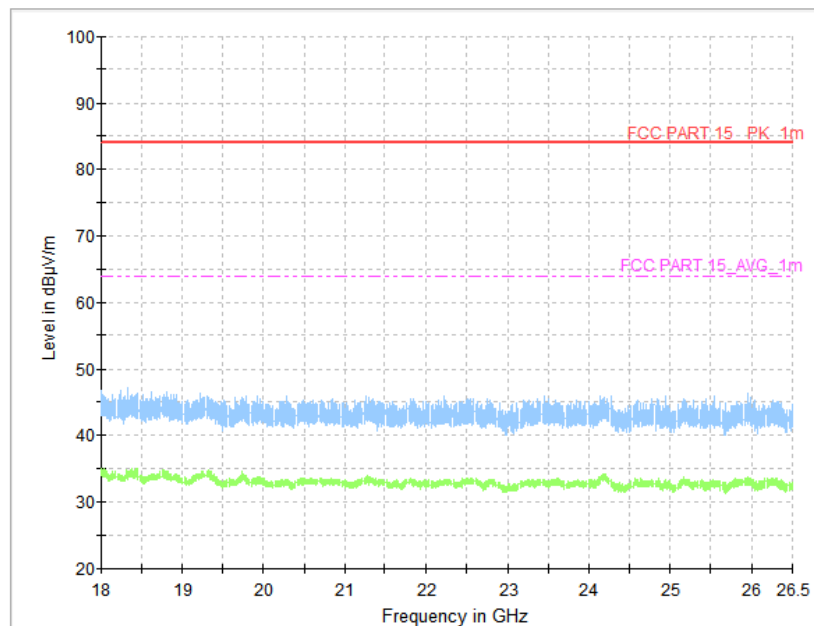


Fig.16 Radiated Spurious Emission (All channel, 9kHz~30MHz)



**Fig.17 Radiated Spurious Emission (All channel, 30MHz~1GHz)**



**Fig.18 Radiated Spurious Emission (All channel, 18GHz~26.5GHz)**



### A.2 AC Power line Conducted Emission

Method of Measurement: See ANSI C63.10-clause 6.2.

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

WLAN 2.4GHz - AE2, AE3

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average-peak Limit (dBμV)	Result (dBμV)		Conclusion
			Traffic	Idle	
0.15 to 0.5	66 to 56	56 to 46	Fig.19	Fig.20	<b>P</b>
0.5 to 5	56	46			
5 to 30	60	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

**Note:** The measurement results include the L1 and N measurements.

See below for test graphs.

**Conclusion: PASS**

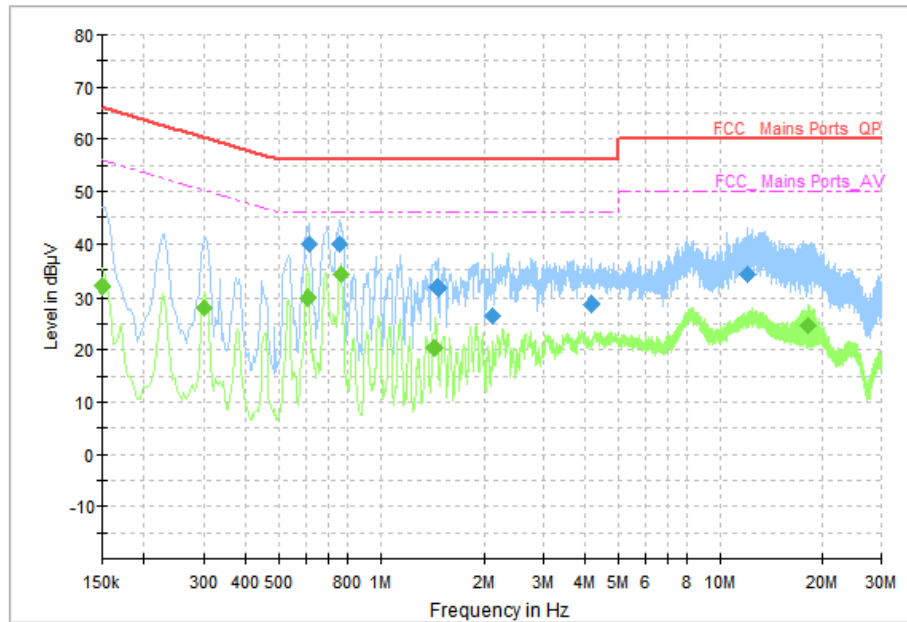


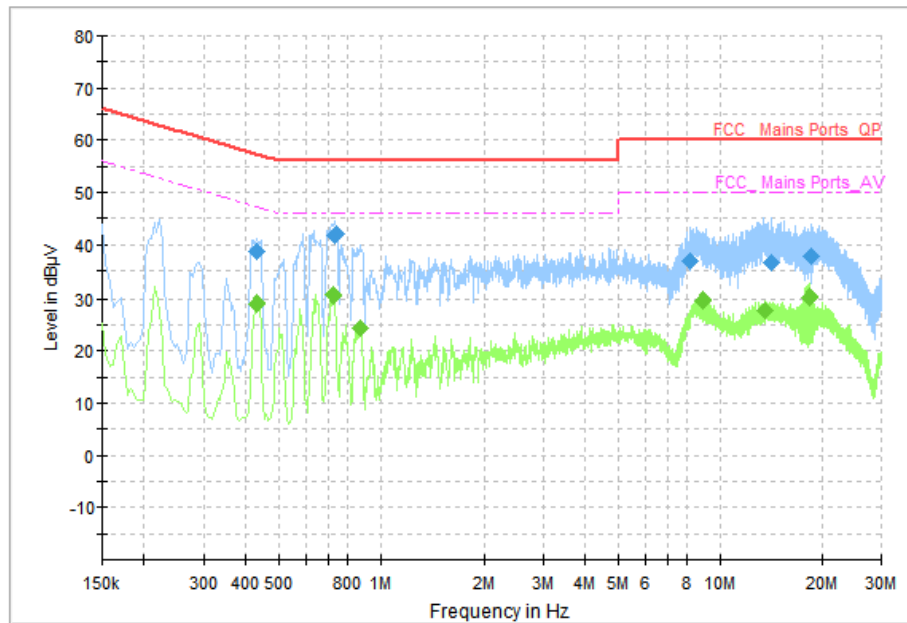
Fig.19 AC Power line Conducted Emission (Traffic)

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.618000	40.03	56.00	15.97	L1	ON	10
0.758000	40.05	56.00	15.95	L1	ON	10
1.462000	31.70	56.00	24.30	L1	ON	10
2.126000	26.46	56.00	29.54	L1	ON	10
4.162000	28.59	56.00	27.41	L1	ON	10
11.994000	33.99	60.00	26.01	L1	ON	10

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	32.07	56.00	23.93	L1	ON	10
0.302000	28.11	50.19	22.08	L1	ON	10
0.606000	29.93	46.00	16.07	L1	ON	10
0.762000	34.03	46.00	11.97	L1	ON	10
1.438000	20.50	46.00	25.50	L1	ON	10
18.302000	24.61	50.00	25.39	L1	ON	10



**Fig.20 AC Power line Conducted Emission (Idle)**

**Measurement Results: Quasi Peak**

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.430000	38.68	57.25	18.57	L1	ON	10
0.734000	41.79	56.00	14.21	L1	ON	10
0.738000	42.15	56.00	13.85	L1	ON	10
8.194000	36.81	60.00	23.19	L1	ON	10
14.134000	36.68	60.00	23.32	L1	ON	11
18.706000	37.76	60.00	22.24	L1	ON	10

**Measurement Results: Average**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.430000	29.02	47.25	18.24	L1	ON	10
0.726000	30.55	46.00	15.45	L1	ON	10
0.870000	24.49	46.00	21.51	L1	ON	10
8.922000	29.59	50.00	20.41	L1	ON	10
13.550000	27.70	50.00	22.30	L1	ON	10
18.342000	30.20	50.00	19.80	L1	ON	10

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