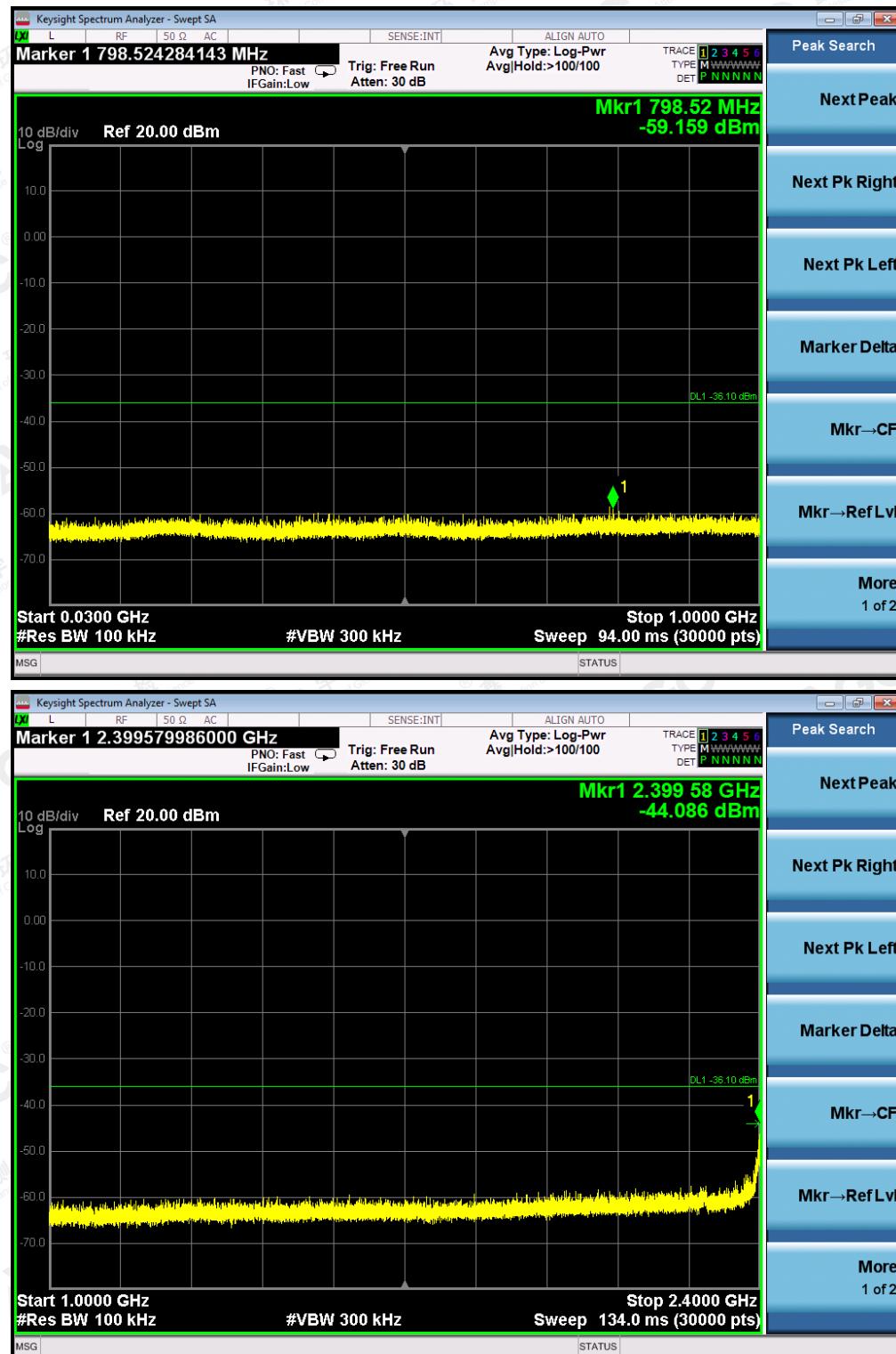


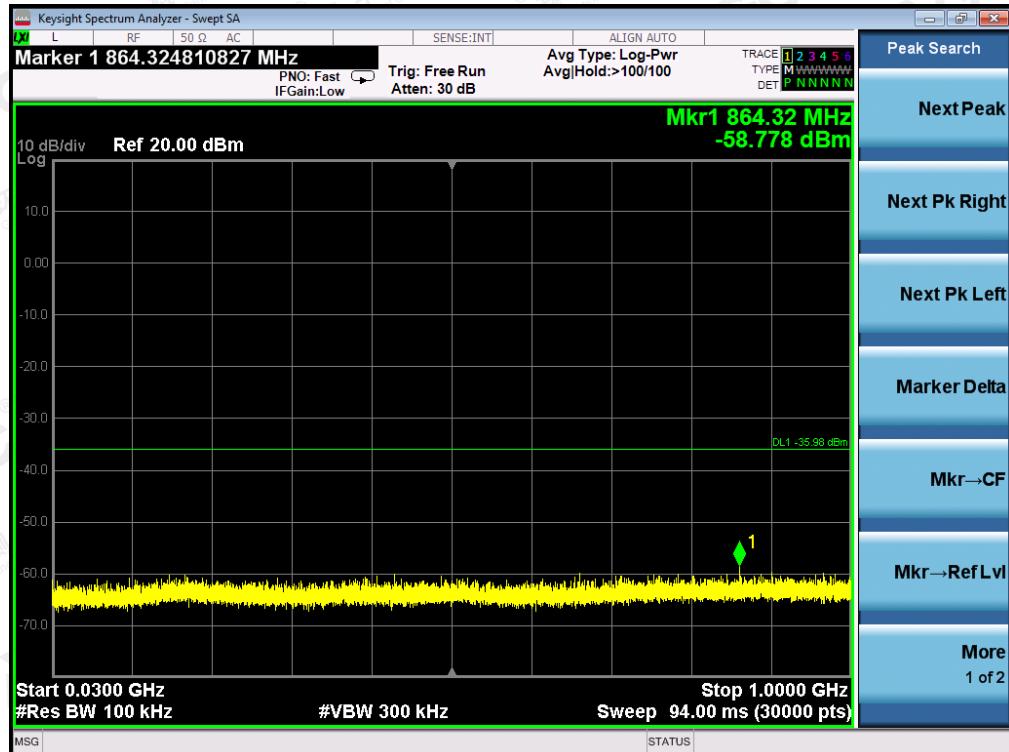
TEST PLOTS OF 802.11n40 OUT OF BAND EMISSIONS  
MODULATION IN MIDDLE CHANNEL

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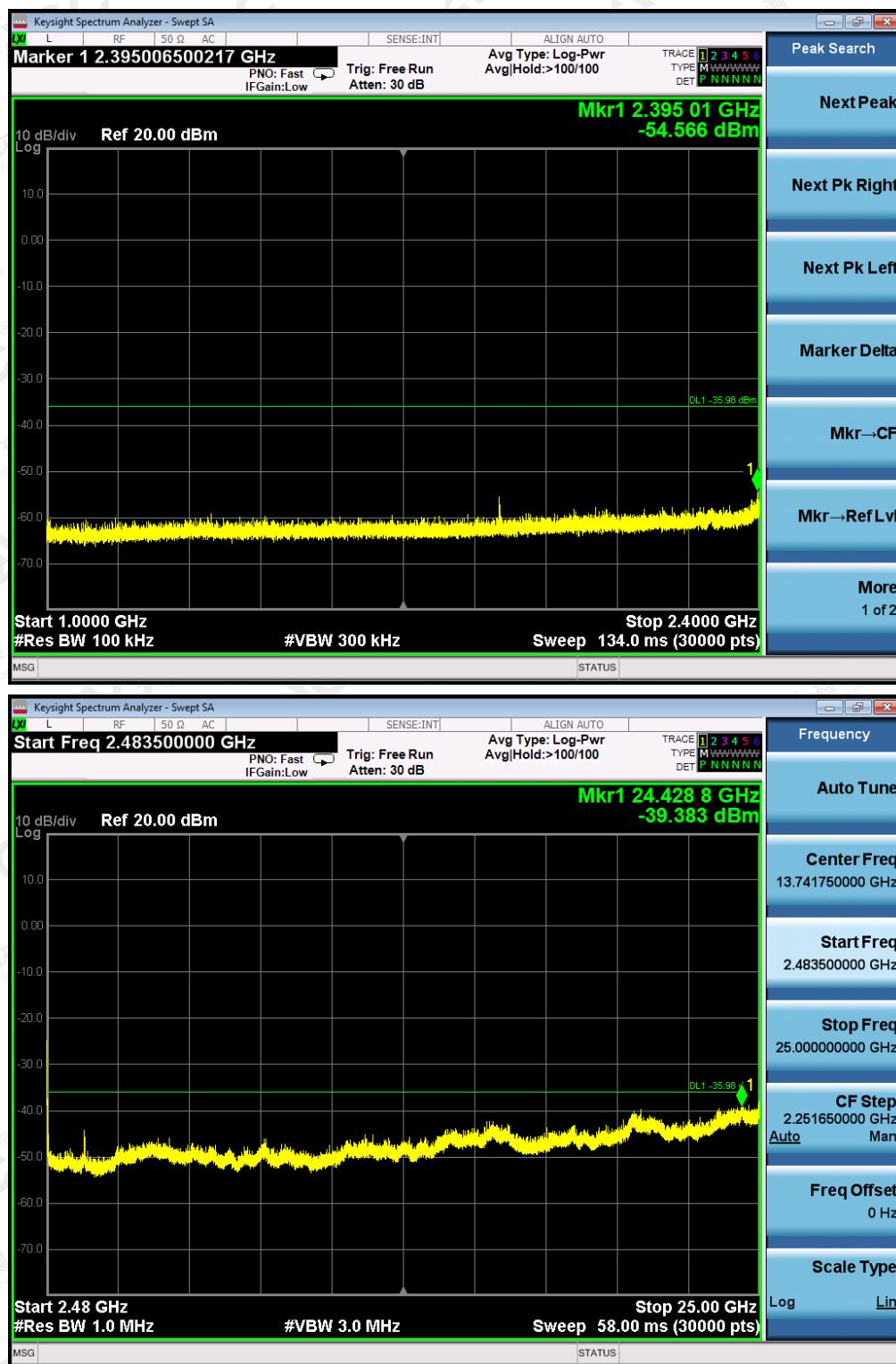


### TEST PLOTS OF 802.11n40 OUT OF BAND EMISSIONS MODULATION IN HIGH CHANNEL



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## 10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

### 10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of AVGPSD-1 in the ANSI C63.10 (2013) item 10.3 was used in this testing.

### 10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

### 10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

### 10.4 LIMITS AND MEASUREMENT RESULT

<b>TEST ITEM</b>	POWER SPECTRAL DENSITY		
<b>TEST MODE</b>	802.11b with data rate 1		

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-4.334	8	Pass
Middle Channel	-4.544	8	Pass
High Channel	-4.584	8	Pass

<b>TEST ITEM</b>	POWER SPECTRAL DENSITY		
<b>TEST MODE</b>	802.11g with data rate 6		

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-7.706	8	Pass
Middle Channel	-7.280	8	Pass
High Channel	-6.830	8	Pass

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<b>TEST ITEM</b>	POWER SPECTRAL DENSITY		
<b>TEST MODE</b>	802.11n 20 with data rate 6.5		

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-6.400	8	Pass
Middle Channel	-7.022	8	Pass
High Channel	-6.750	8	Pass

<b>TEST ITEM</b>	POWER SPECTRAL DENSITY		
<b>TEST MODE</b>	802.11n 40 with data rate 13.5		

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-10.001	8	Pass
Middle Channel	-10.629	8	Pass
High Channel	-10.420	8	Pass

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## 802.11b TEST RESULT

### TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



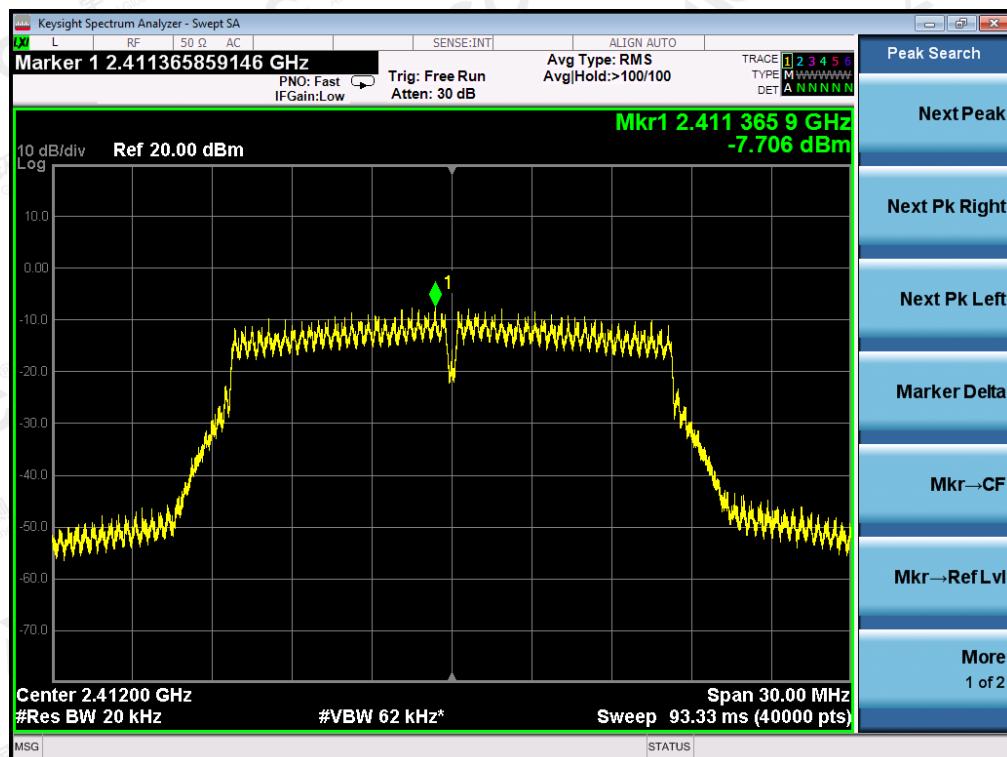
### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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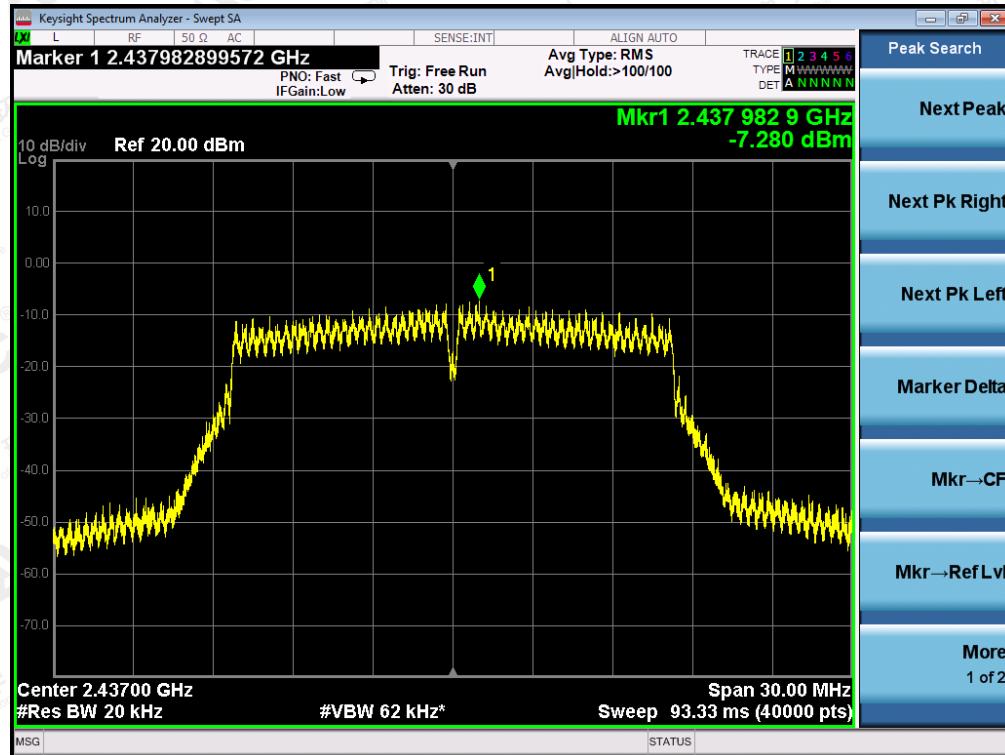
## TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

802.11g TEST RESULT  
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

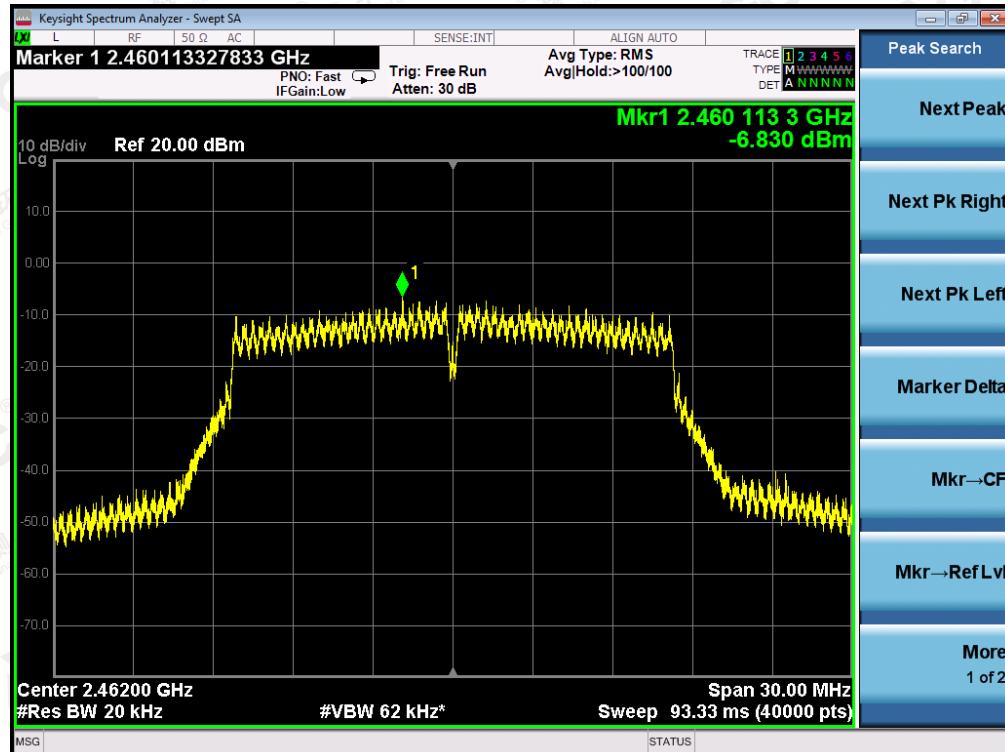
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## TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



## TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

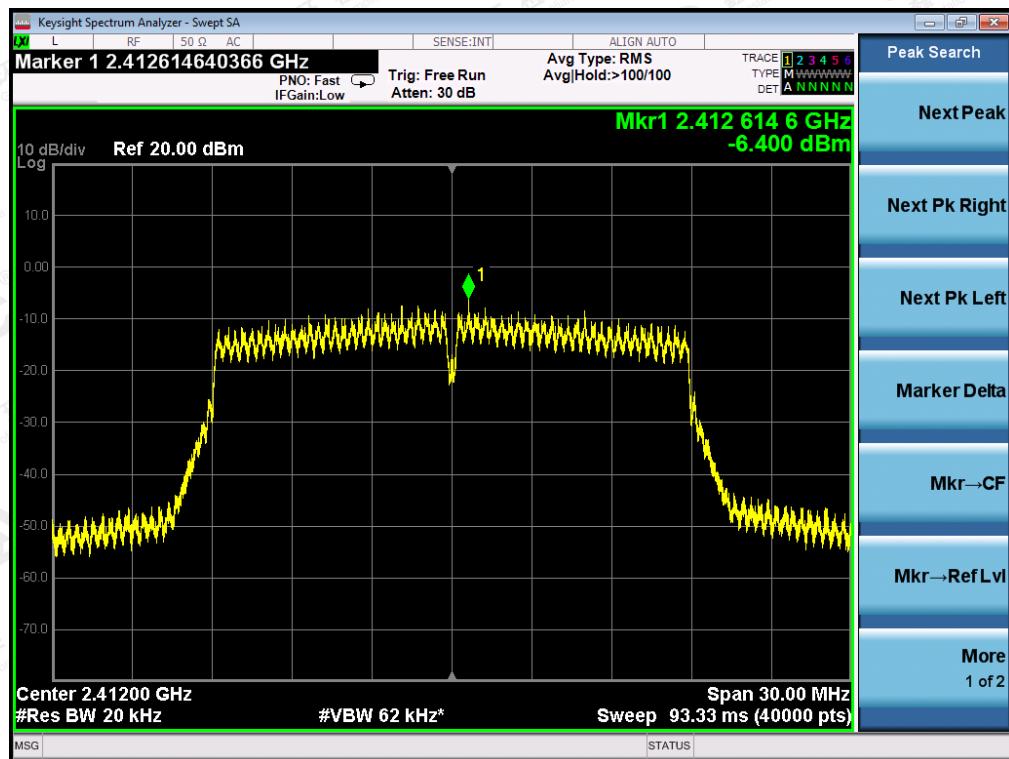


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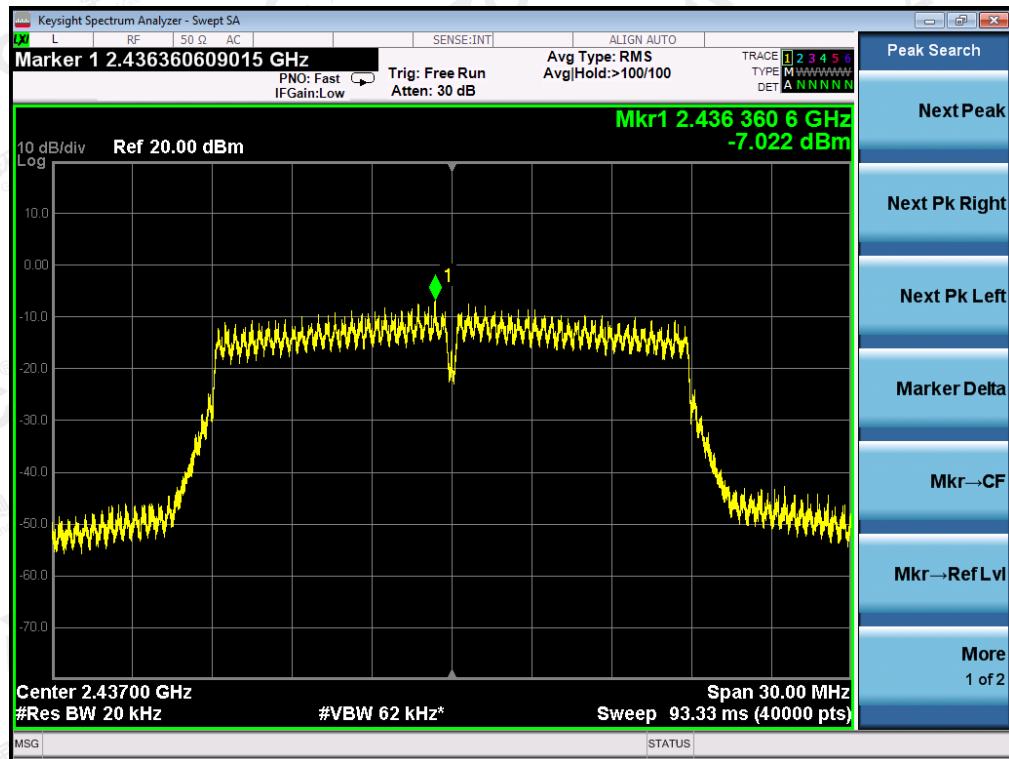


## 802.11n 20 TEST RESULT

### TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



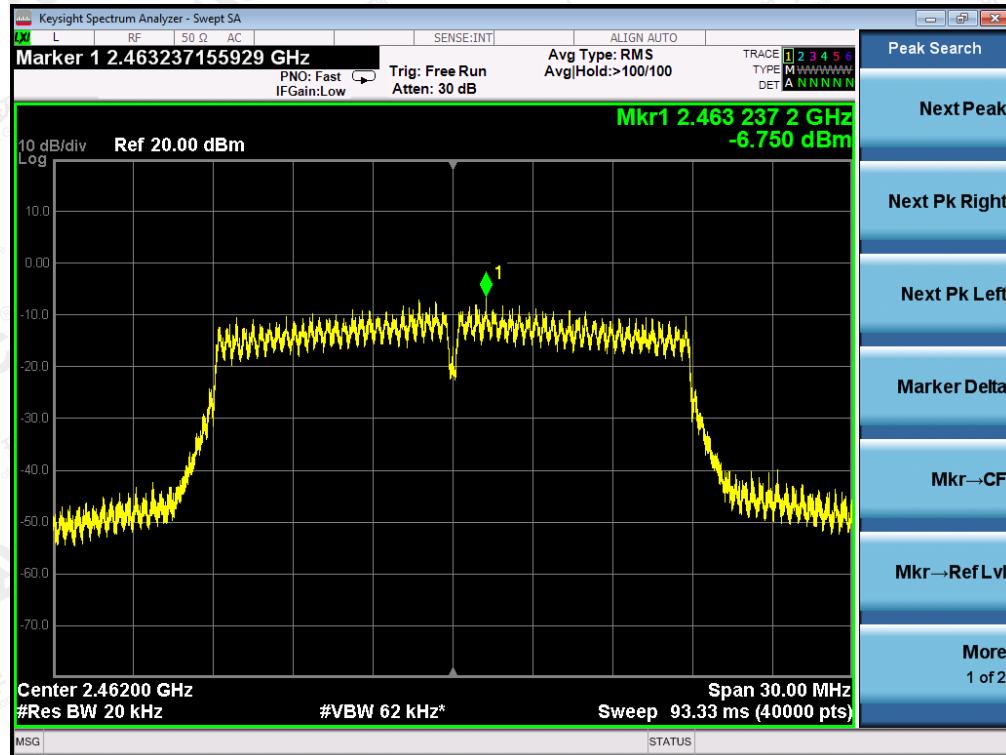
### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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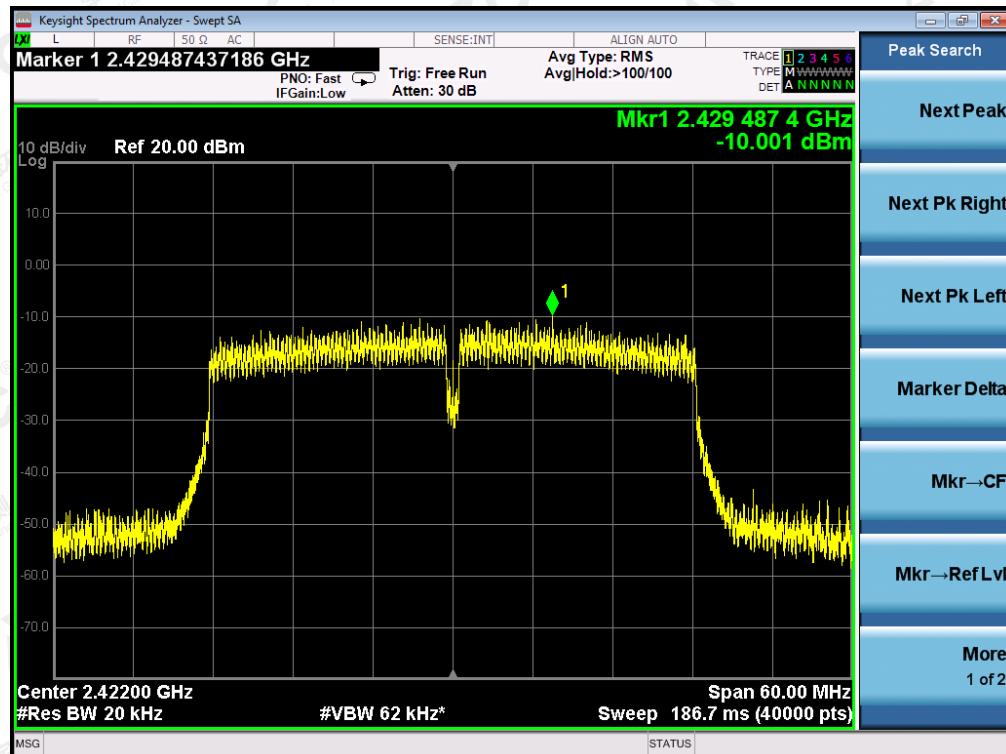


## TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



## 802.11n 40 TEST RESULT

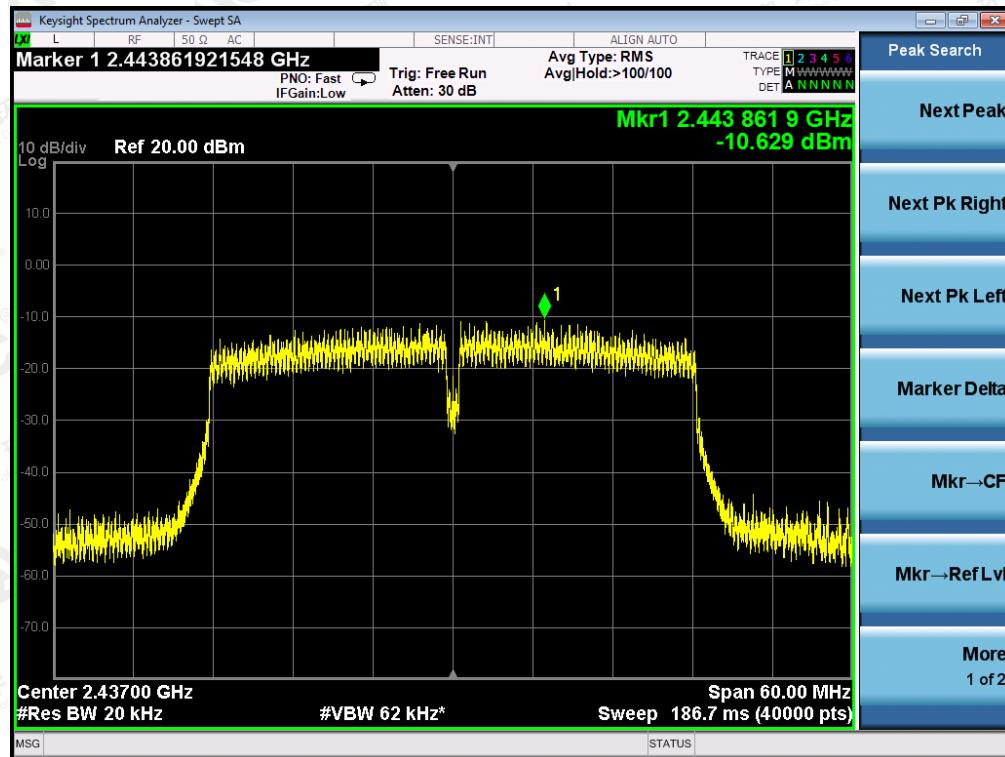
## TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



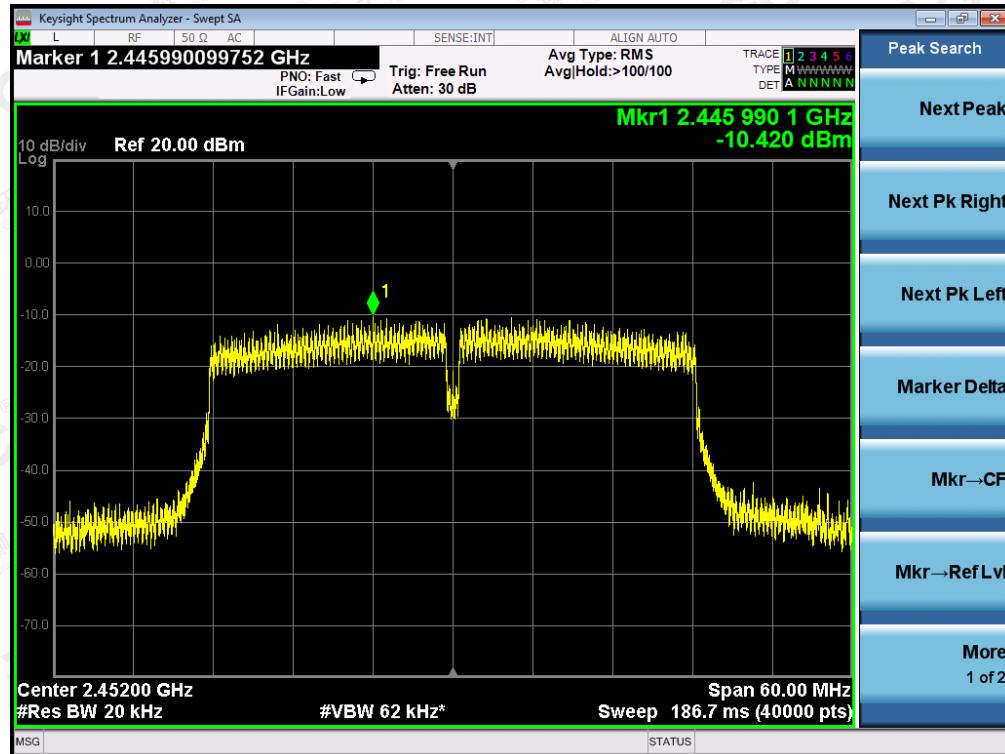
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## TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



## TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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## 11. RADIATED EMISSION

### 11.1. MEASUREMENT PROCEDURE

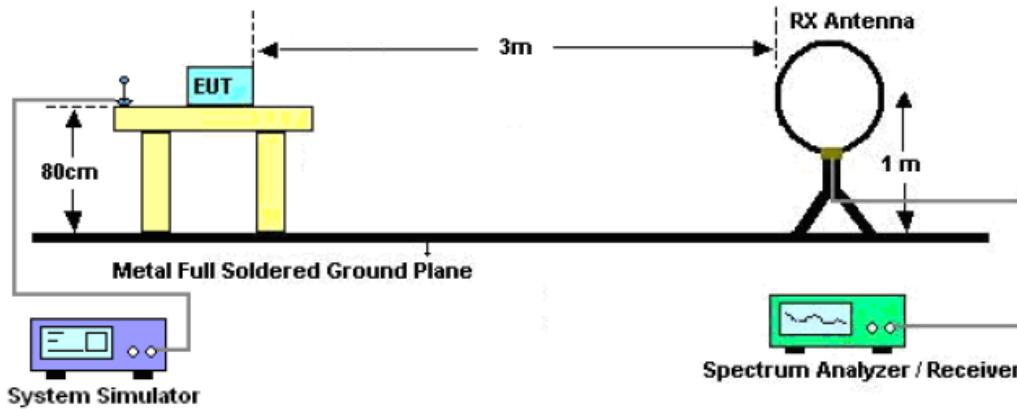
1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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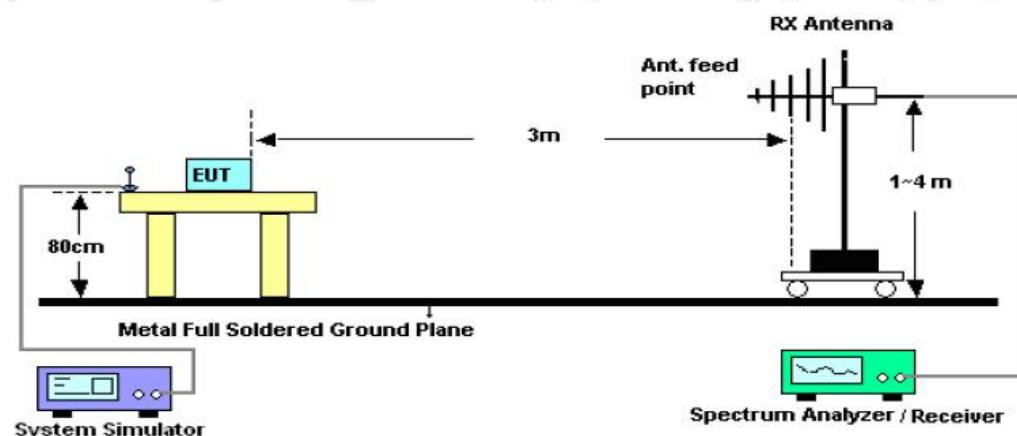


## 11.2. TEST SETUP

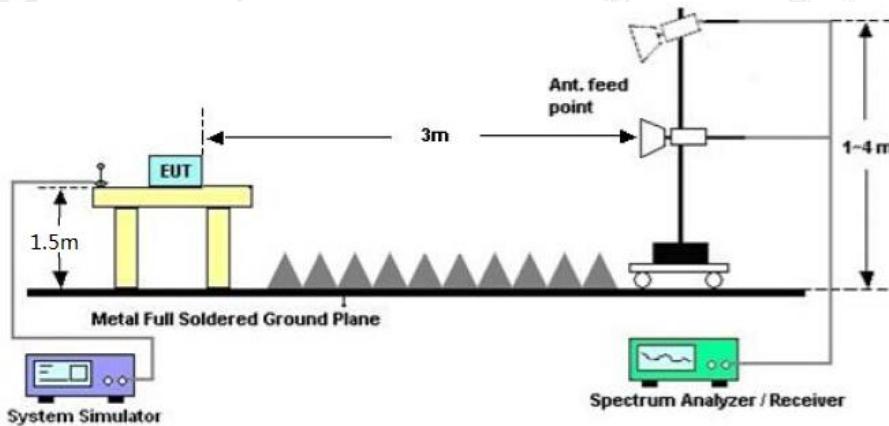
### Radiated Emission Test-Setup Frequency Below 30MHz



### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



### RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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### 11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission,  
 The test records reported below are the worst result compared to other modes.

### 11.4. TEST RESULT

#### RADIATED EMISSION BELOW 30MHZ

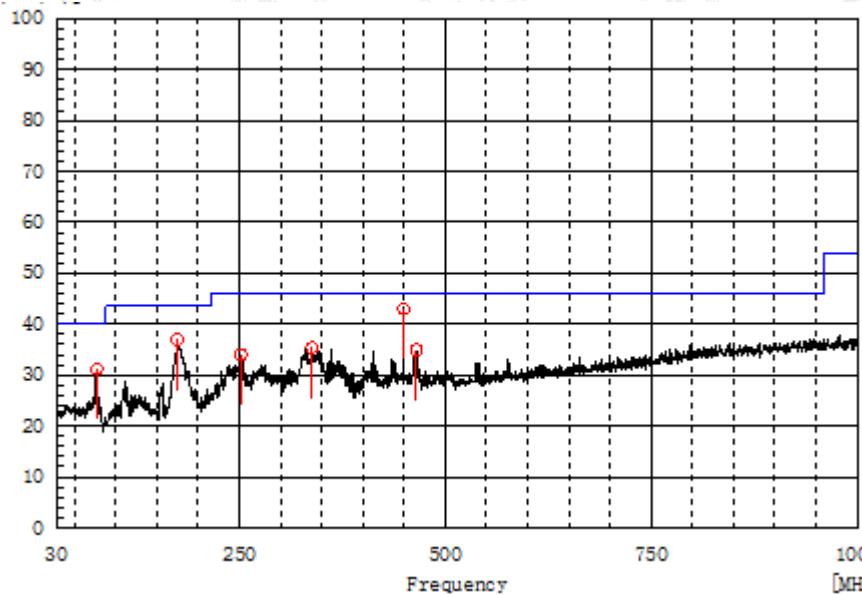
No emission found between lowest internal used/generated frequencies to 30MHz.

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## RADIATED EMISSION BELOW 1GHZ

<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with date rate 1 2412MHZ	<b>Antenna</b>	Horizontal



Frequency, MHz.	Polarization,	Reading, dB(uV),	Factor, dB., (1/m),	Level, dB(uV/m), PK.,	Limit, dB(uV/m), QP.,	Margin, dB.,	Pass/Fail.,	Height, cm.,	Angle, deg.,
77.530..	H..	18.6..	12.5..	31.1..	40.0..	8.9..	Pass..	100.0..	44.8..
175.015..	H..	21.8..	15.2..	37.0..	43.5..	6.5..	Pass..	200.0..	185.4..
252.130..	H..	18.0..	16.0..	34.0..	46.0..	12.0..	Pass..	100.0..	312.9..
338.460..	H..	17.0..	18.4..	35.4..	46.0..	10.6..	Pass..	150.0..	264.6..
449.525..	H..	20.9..	22.1..	43.0..	46.0..	3.0..	Pass..	100.0..	2.8..
465.045..	H..	12.6..	22.3..	34.9..	46.0..	11.1..	Pass..	100.0..	126.6..

**RESULT: PASS**

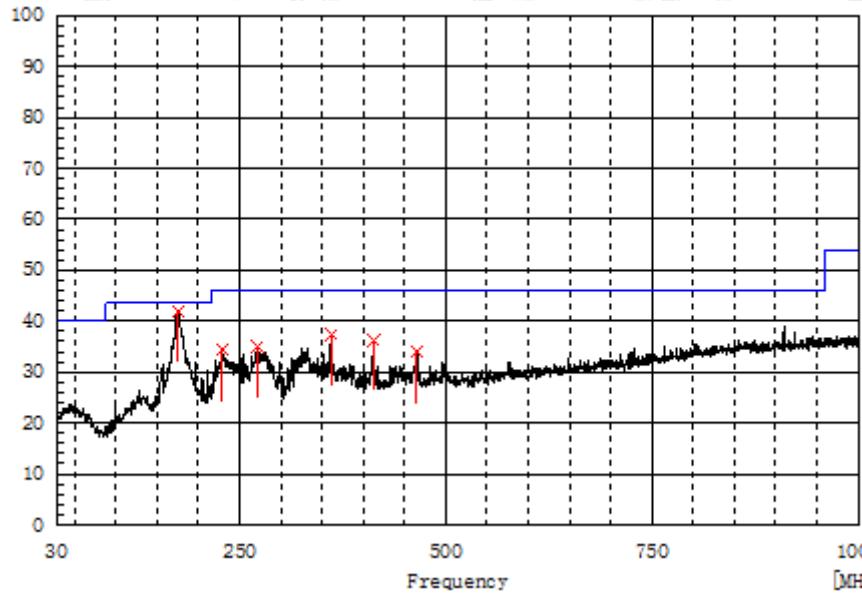
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<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with date rate 1 2412MHZ	<b>Antenna</b>	Vertical



Frequency, MHz.,	Polarization.,	Reading, dB(uV),	Factor., dB., (1/m),	Level., dB(uV/m), PK.,	Limit., dB(uV/m), QP.,	Margin., dB.,	Pass/Fail.,	Height., cm.,	Angle., deg.,
175.985.,	V.,	27.0.,	15.1.,	42.1.,	43.5.,	1.4.,	Pass.,	100.0.,	155.0.,
229.335.,	V.,	18.7.,	15.6.,	34.3.,	46.0.,	11.7.,	Pass.,	150.0.,	117.9.,
361.255.,	V.,	18.0.,	19.3.,	37.3.,	46.0.,	8.7.,	Pass.,	100.0.,	285.0.,
413.150.,	V.,	15.1.,	21.2.,	36.3.,	46.0.,	9.7.,	Pass.,	100.0.,	243.6.,
272.500.,	V.,	17.7.,	17.2.,	34.9.,	46.0.,	11.1.,	Pass.,	150.0.,	312.8.,
465.045.,	V.,	11.7.,	22.3.,	34.0.,	46.0.,	12.0.,	Pass.,	150.0.,	98.8.,

## RESULT: PASS

### Note:

1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
2. The "Factor" value can be calculated automatically by software of measurement system.
3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

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### RADIATED EMISSION ABOVE 1GHZ

<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with date rate 1 2412MHZ	<b>Antenna</b>	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
4824.062	48.66	3.72	52.38	74	-21.62	peak
4824.039	42.24	3.72	45.96	54	-8.04	AVG
7236.076	43.81	8.15	51.96	74	-22.04	peak
7236.103	38.73	8.15	46.88	54	-7.12	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with date rate 1 2412MHZ	<b>Antenna</b>	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
4824.039	47.81	3.72	51.53	74	-22.47	peak
4824.090	41.59	3.72	45.31	54	-8.69	AVG
7236.085	43.77	8.15	51.92	74	-22.08	peak
7236.112	37.63	8.15	45.78	54	-8.22	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China

<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with date rate 1 2437MHZ	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Value Type
4874.032	49.62	3.75	53.37	74	-20.63	peak
4874.116	45.47	3.75	49.22	54	-4.78	AVG
7311.035	43.83	8.16	51.99	74	-22.01	peak
7311.040	38.79	8.16	46.95	54	-7.05	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with date rate 1 2437MHZ	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Value Type
4874.079	48.47	3.75	52.22	74	-21.78	peak
4874.098	43.39	3.75	47.14	54	-6.86	AVG
7311.026	44.57	8.16	52.73	74	-21.27	peak
7311.074	38.72	8.16	46.88	54	-7.12	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China

<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with date rate 1 2462MHZ	<b>Antenna</b>	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
4924.076	49.58	3.81	53.39	74	-20.61	peak
4924.053	45.86	3.81	49.67	54	-4.33	AVG
7386.057	44.95	8.19	53.14	74	-20.86	peak
7386.060	38.63	8.19	46.82	54	-7.18	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with date rate 1 2462MHZ	<b>Antenna</b>	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
4924.032	48.57	3.81	52.38	74	-21.62	peak
4924.035	42.26	3.81	46.07	54	-7.93	AVG
7386.063	43.13	8.19	51.32	74	-22.68	peak
7386.056	38.49	8.19	46.68	54	-7.32	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

## RESULT: PASS

### Note:

Other emissions from 1GHz to 25 GHz are considered as ambient noise. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

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## 12. BAND EDGE EMISSION

### 12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

### 12.2. TEST SET-UP

same as 11.2

**Note:**

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F.

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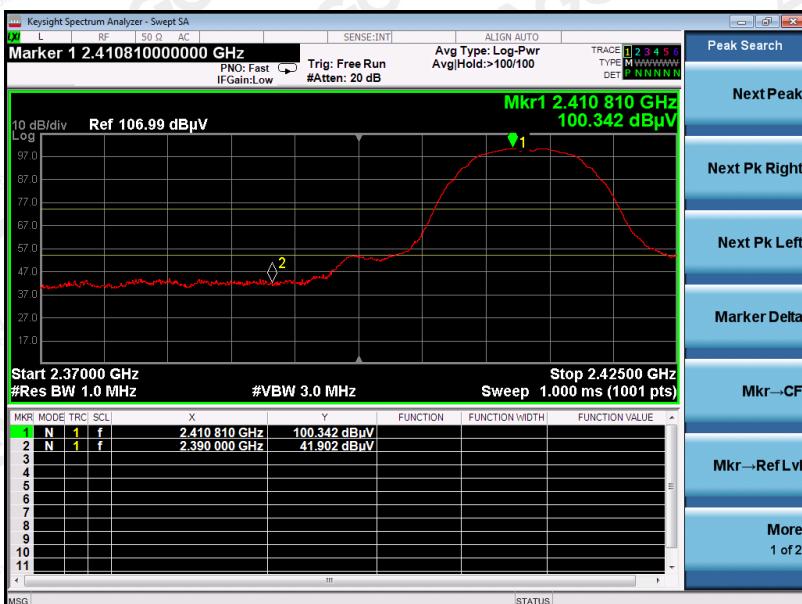
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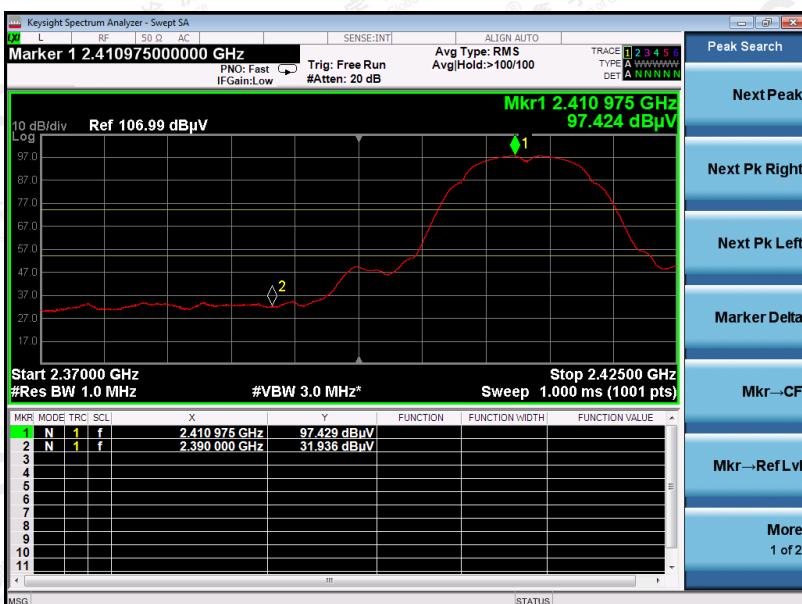
### 12.3. TEST RESULT

<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with data rate 1 2412MHZ	<b>Antenna</b>	Horizontal

PK



AV



**RESULT: PASS**

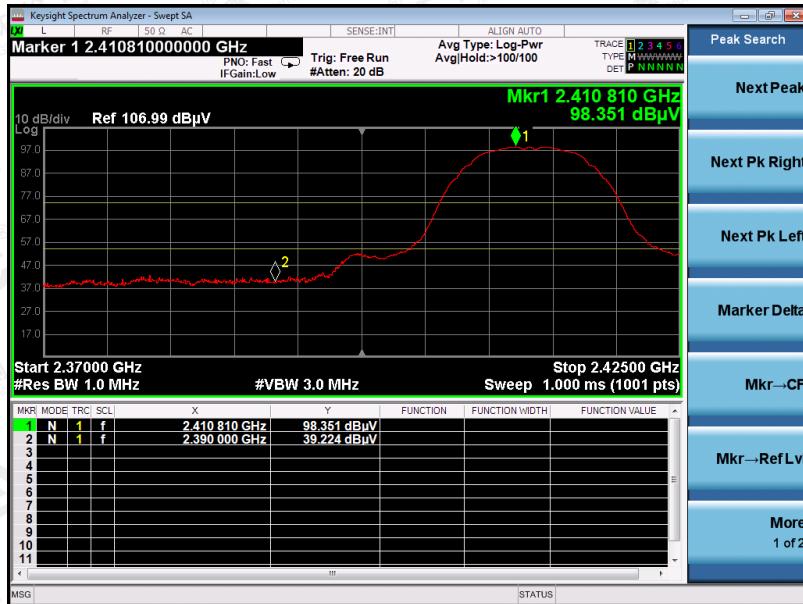
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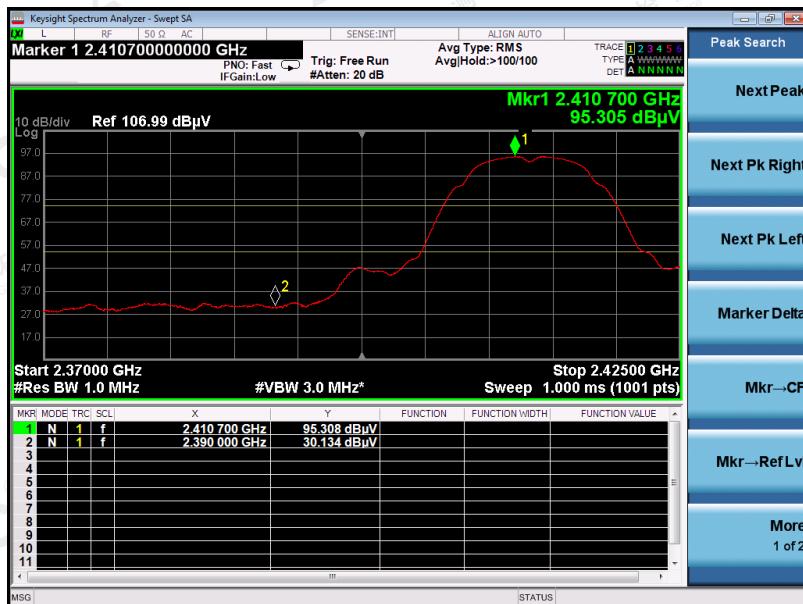
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<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with data rate 1 2412MHz	<b>Antenna</b>	Vertical

PK



AV



**RESULT: PASS**

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<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with data rate 1 2462MHz	<b>Antenna</b>	Horizontal

PK



AV



**RESULT: PASS**

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<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with data rate 1 2462MHz	<b>Antenna</b>	Vertical

PK



AV



## RESULT: PASS

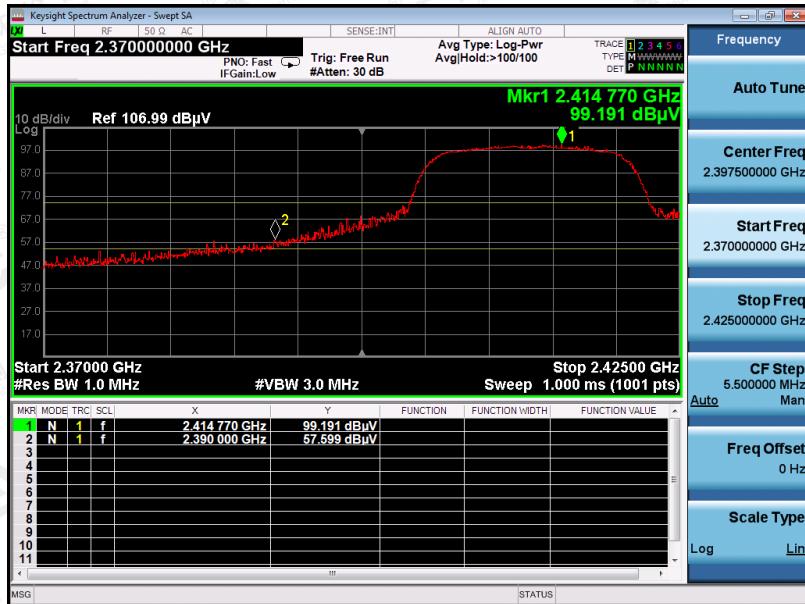
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<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11g with data rate 6 2412MHz	<b>Antenna</b>	Horizontal

PK



AV



**RESULT: PASS**

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<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11g with data rate 6 2412MHz	<b>Antenna</b>	Vertical

PK



AV



**RESULT: PASS**

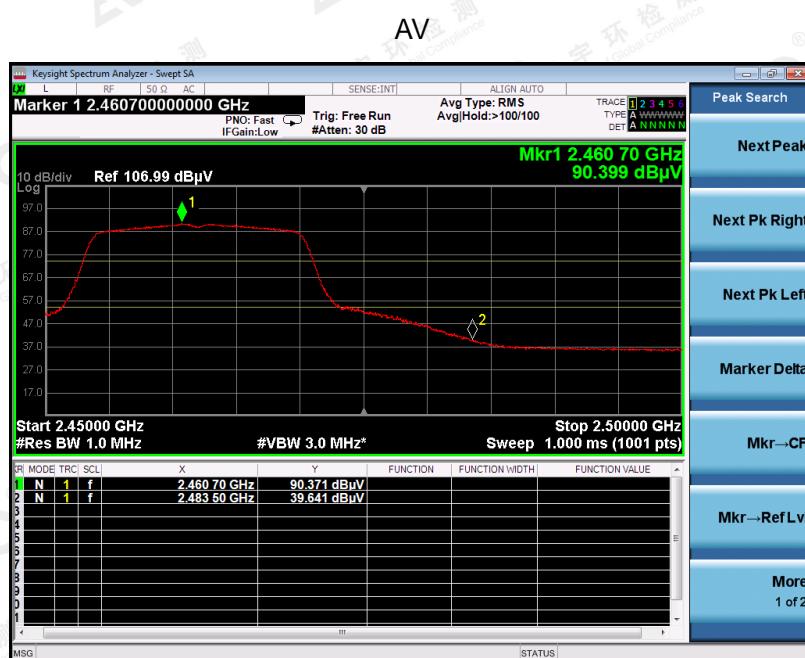
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<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11g with data rate 6 2462MHZ	<b>Antenna</b>	Horizontal



RESULT: PASS

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<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11g with data rate 6 2462MHZ	<b>Antenna</b>	Vertical

PK



AV



**RESULT: PASS**

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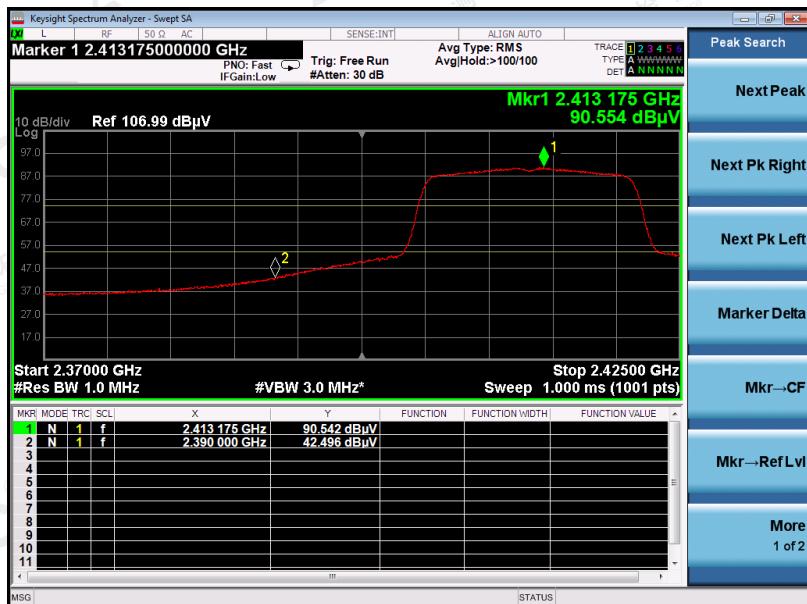
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<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11n 20 with data rate 6.5 2412MHZ	<b>Antenna</b>	Horizontal

PK



AV



**RESULT: PASS**

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<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11n 20 with data rate 6.5 2412MHZ	<b>Antenna</b>	Vertical

PK



AV



**RESULT: PASS**

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<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11n 20 with data rate 6.5 2462MHz	<b>Antenna</b>	Horizontal

PK



AV



**RESULT: PASS**

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<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11n 20 with data rate 6.5 2462MHz	<b>Antenna</b>	Vertical

PK



AV



**RESULT: PASS**

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<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11n 40 with data rate 13.5 2422MHZ	<b>Antenna</b>	Horizontal

PK



AV



**RESULT: PASS**

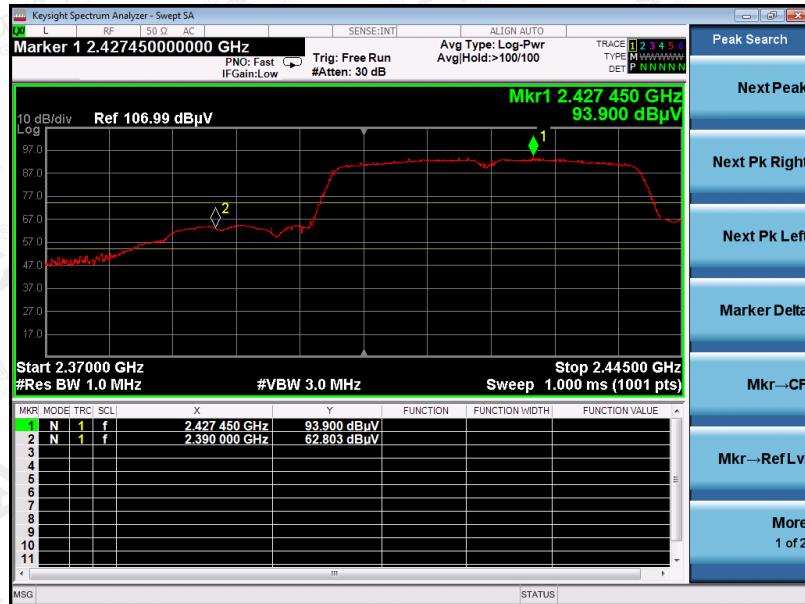
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<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11n 40 with data rate 13.5 2422MHZ	<b>Antenna</b>	Vertical

PK



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**RESULT: PASS**

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<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11n 40with data rate 13.5 2452MHZ	<b>Antenna</b>	Horizontal

PK



AV



**RESULT: PASS**

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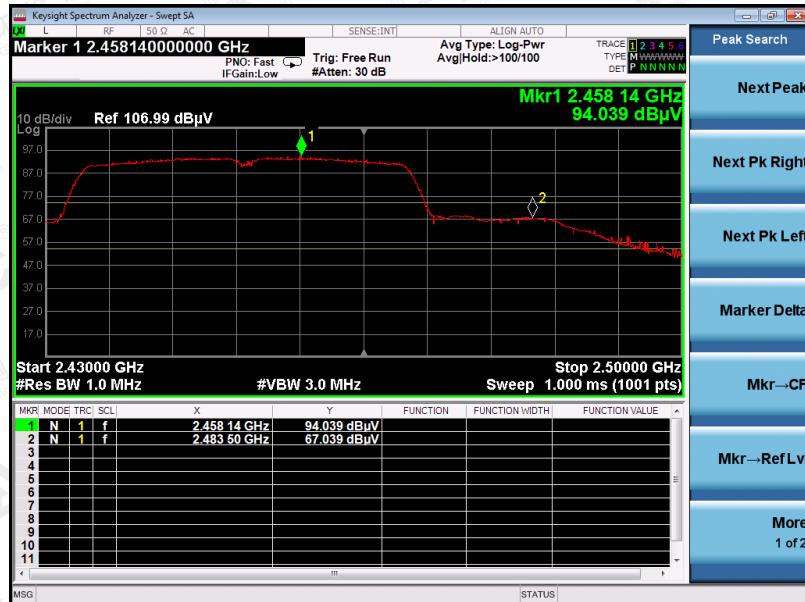


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<b>EUT</b>	WIFI Module	<b>Model Name</b>	C-8068
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11n 40 with data rate 13.5 2452MHz	<b>Antenna</b>	Vertical

PK



AV



**RESULT: PASS**

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## 13. FCC LINE CONDUCTED EMISSION TEST

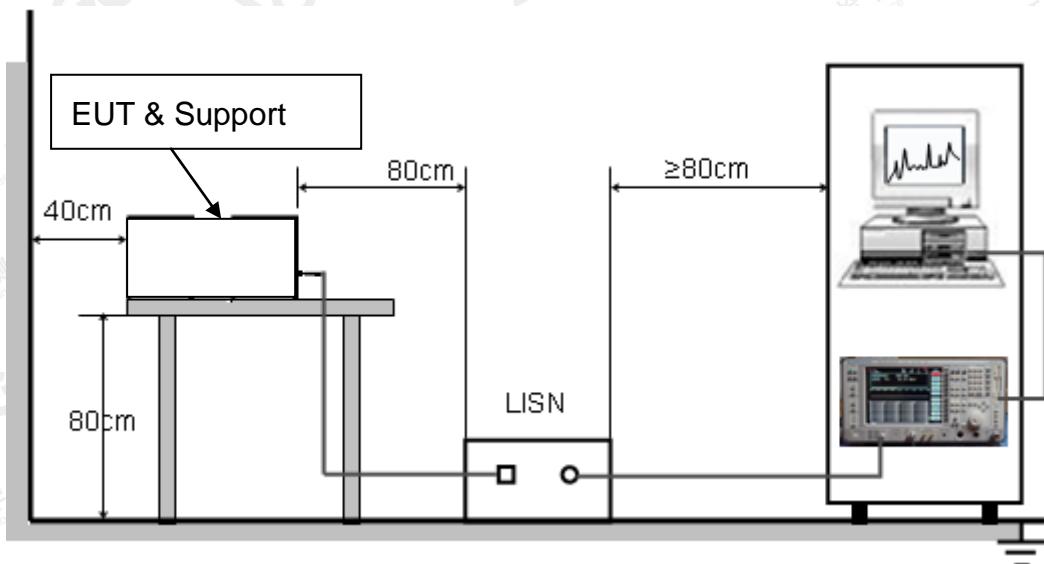
### 13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P. (dBuV)	Average (dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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### 13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN..
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### 13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

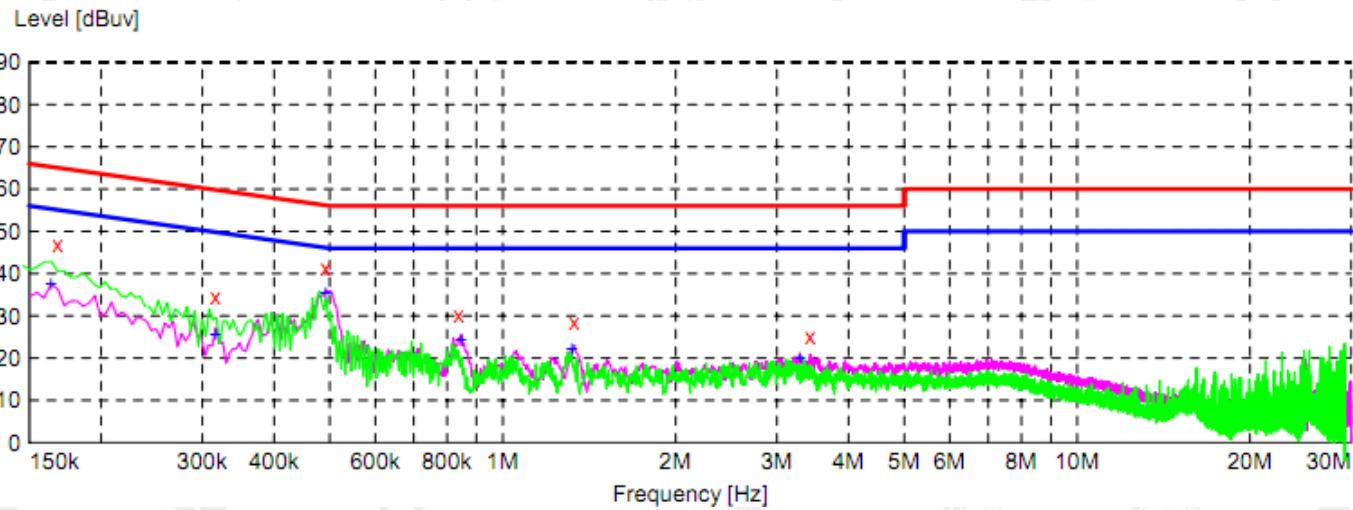
1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

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### 13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

#### LINE CONDUCTED EMISSION TEST-L1



Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuv	dB	dBuv	dB				
0.168000	46.90	11.4	65	18.2	QP	L1	FLO	ON
0.316500	34.40	11.3	60	25.4	QP	L1	FLO	ON
0.492000	41.20	11.4	56	14.9	QP	L1	FLO	ON
0.838500	30.30	11.3	56	25.7	QP	L1	FLO	ON
1.333500	28.60	11.3	56	27.4	QP	L1	FLO	ON
3.430500	25.20	11.4	56	30.8	QP	L1	FLO	ON

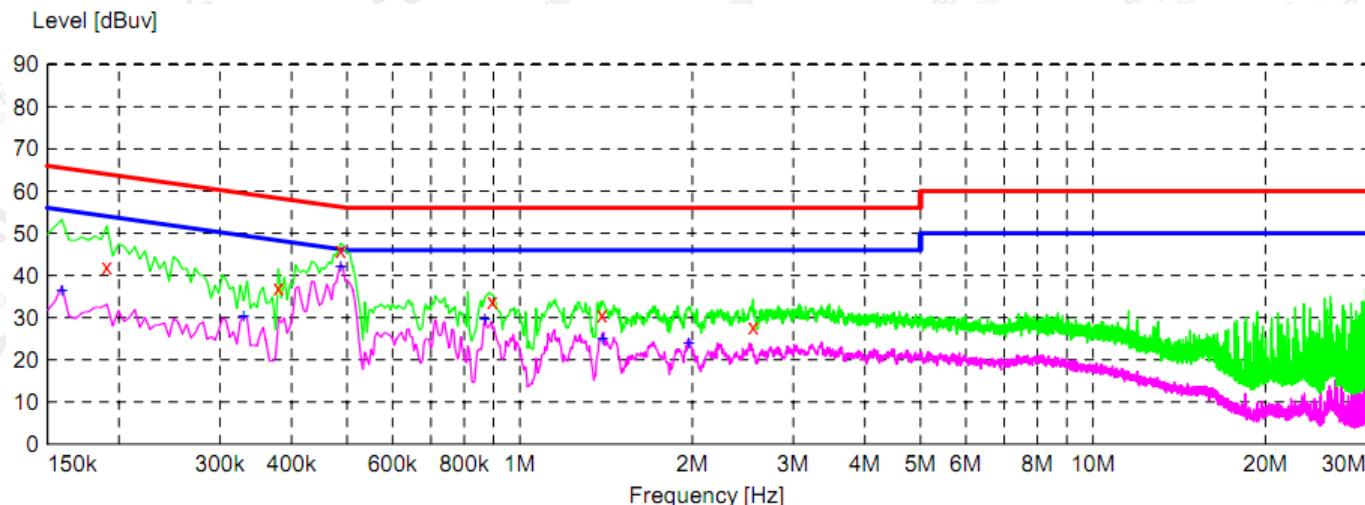
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuv	dB	dBuv	dB				
0.163500	37.40	11.4	55	17.9	AV	L1	FLO	ON
0.316500	25.40	11.3	50	24.4	AV	L1	FLO	ON
0.492000	35.40	11.4	46	10.7	AV	L1	FLO	ON
0.847500	24.10	11.3	46	21.9	AV	L1	FLO	ON
1.320000	21.90	11.3	46	24.1	AV	L1	FLO	ON
3.295500	20.10	11.4	46	25.9	AV	L1	FLO	ON

**RESULT: PASS**

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### LINE CONDUCTED EMISSION TEST-N



Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
-----------	-------	--------	-------	--------	----------	------	----	-----------

MHz	dB <sub>UV</sub>	dB	dB <sub>UV</sub>	dB				
0.190500	42.20	11.4	64	21.8	QP	N	FLO	ON
0.379500	37.20	11.3	58	21.1	QP	N	FLO	ON
0.487500	45.80	11.4	56	10.4	QP	N	FLO	ON
0.897000	34.00	11.3	56	22.0	QP	N	FLO	ON
1.392000	30.50	11.3	56	25.5	QP	N	FLO	ON
2.553000	27.90	11.3	56	28.1	QP	N	FLO	ON

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
-----------	-------	--------	-------	--------	----------	------	----	-----------

MHz	dB <sub>UV</sub>	dB	dB <sub>UV</sub>	dB				
0.159000	36.30	11.4	56	19.2	AV	N	FLO	ON
0.330000	30.30	11.3	50	19.2	AV	N	FLO	ON
0.487500	42.20	11.4	46	4.0	AV	N	FLO	ON
0.870000	29.50	11.3	46	16.5	AV	N	FLO	ON
1.396500	25.10	11.3	46	20.9	AV	N	FLO	ON
1.972500	24.00	11.3	46	22.0	AV	N	FLO	ON

**RESULT: PASS**

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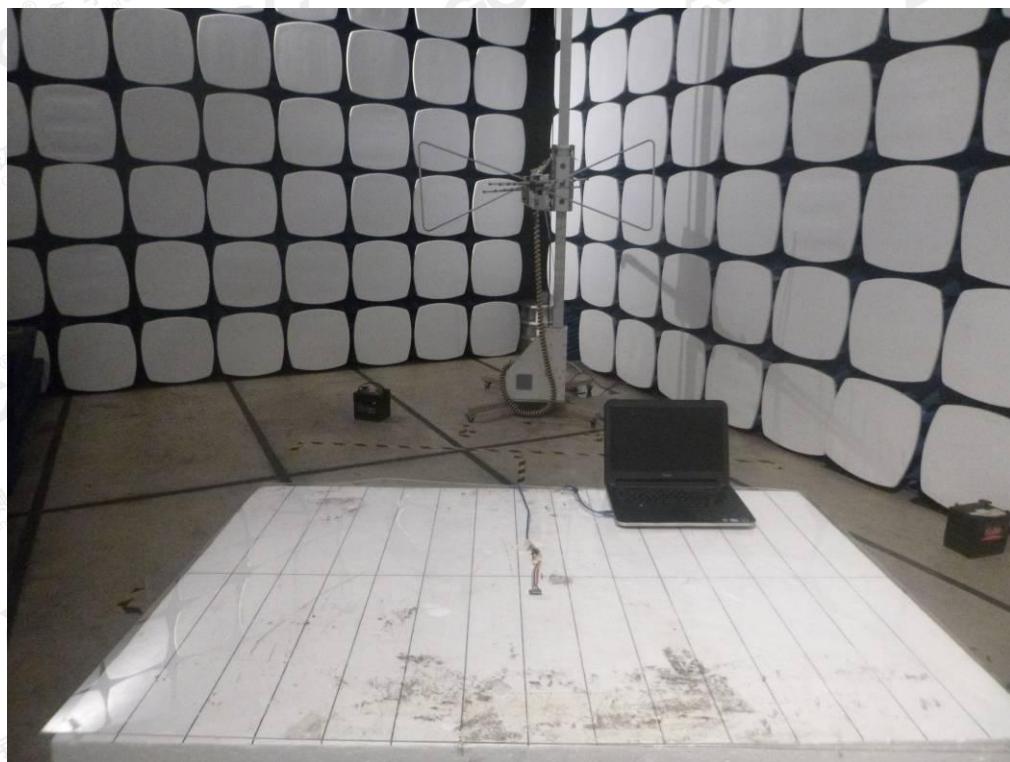


## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

### FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP

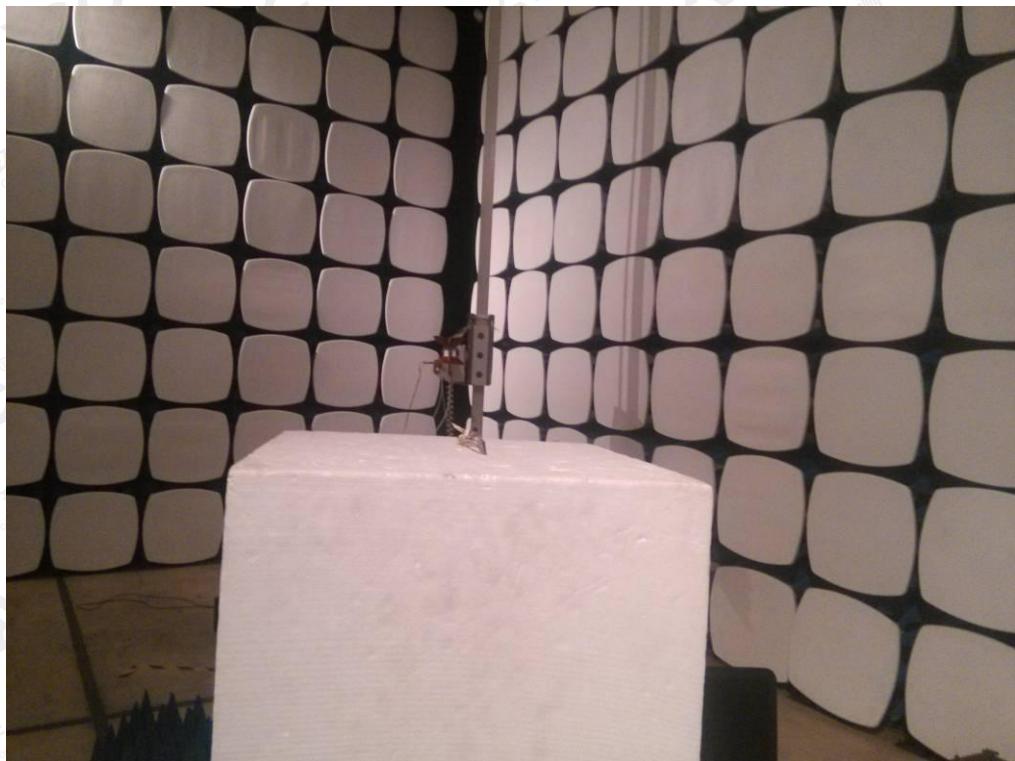


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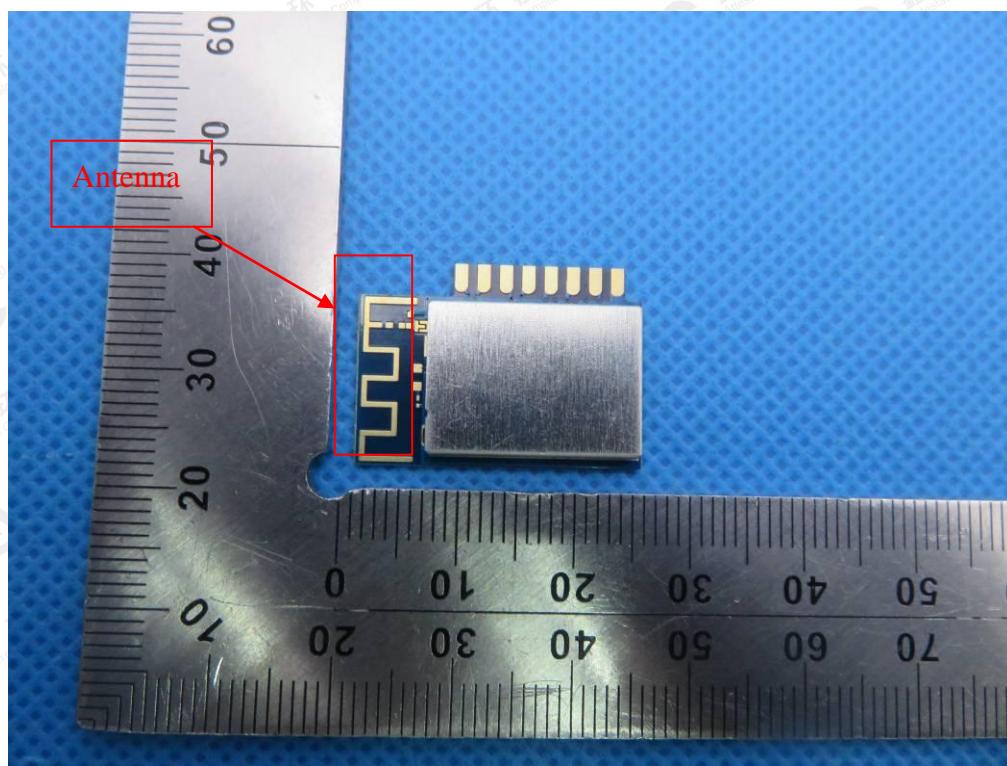
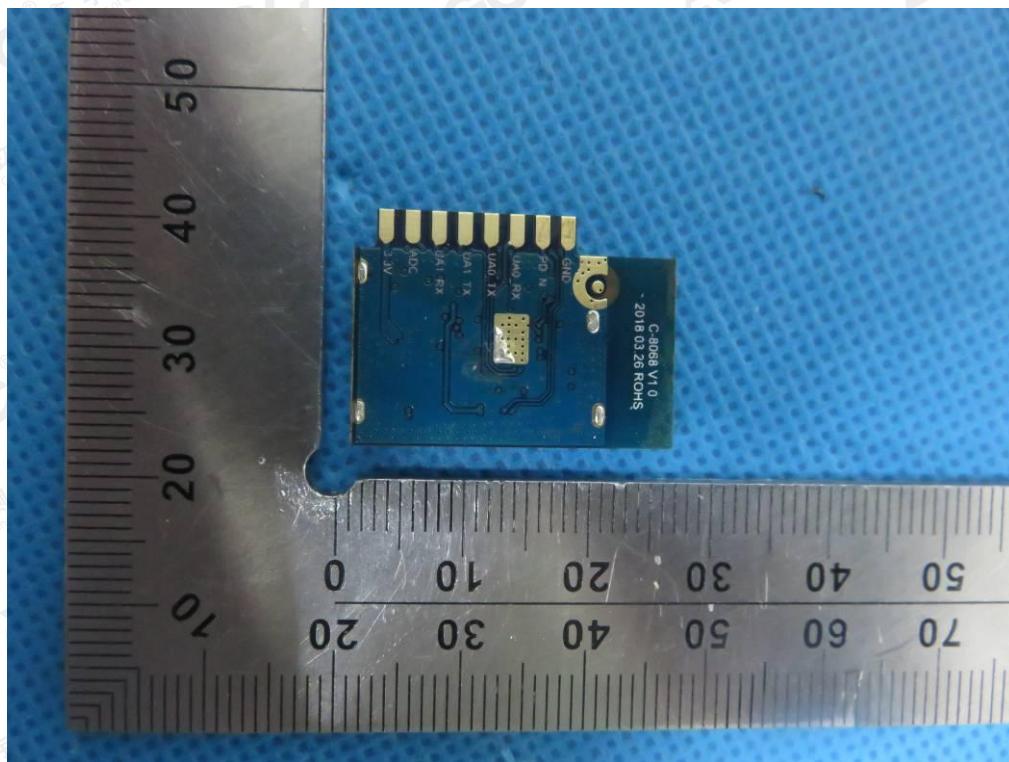


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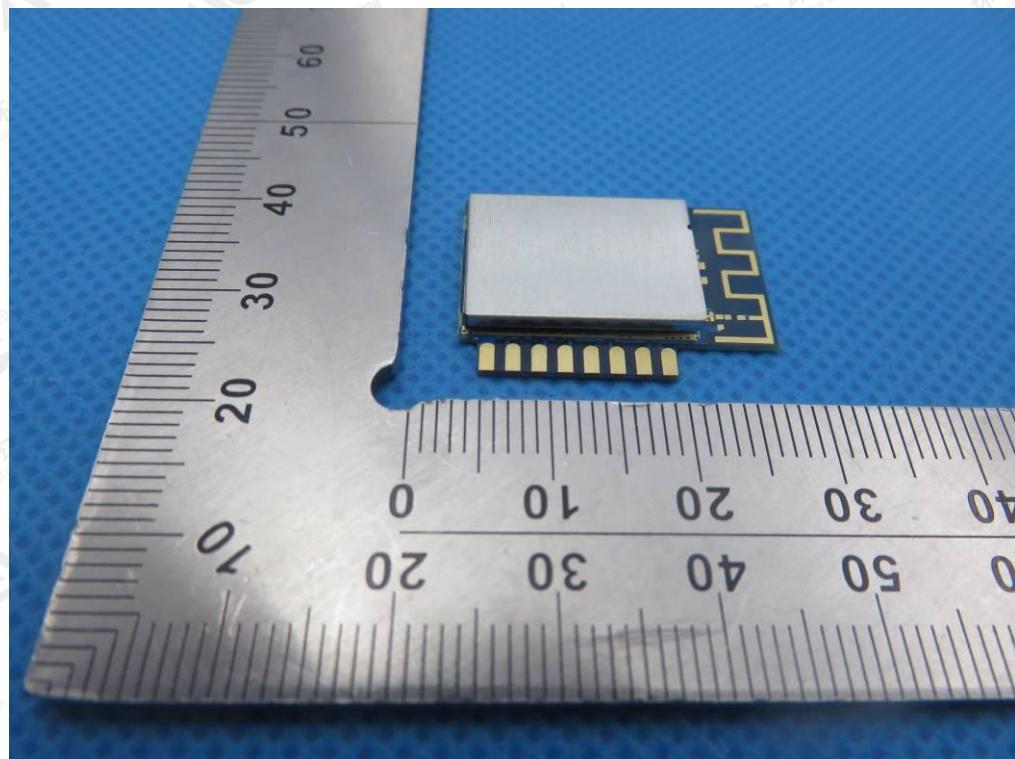
Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: [agc@agc-cert.com](mailto:agc@agc-cert.com) 400 089 2118  
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**APPENDIX B: PHOTOGRAPHS OF EUT****TOP VIEW OF EUT****BOTTOM VIEW OF EUT**

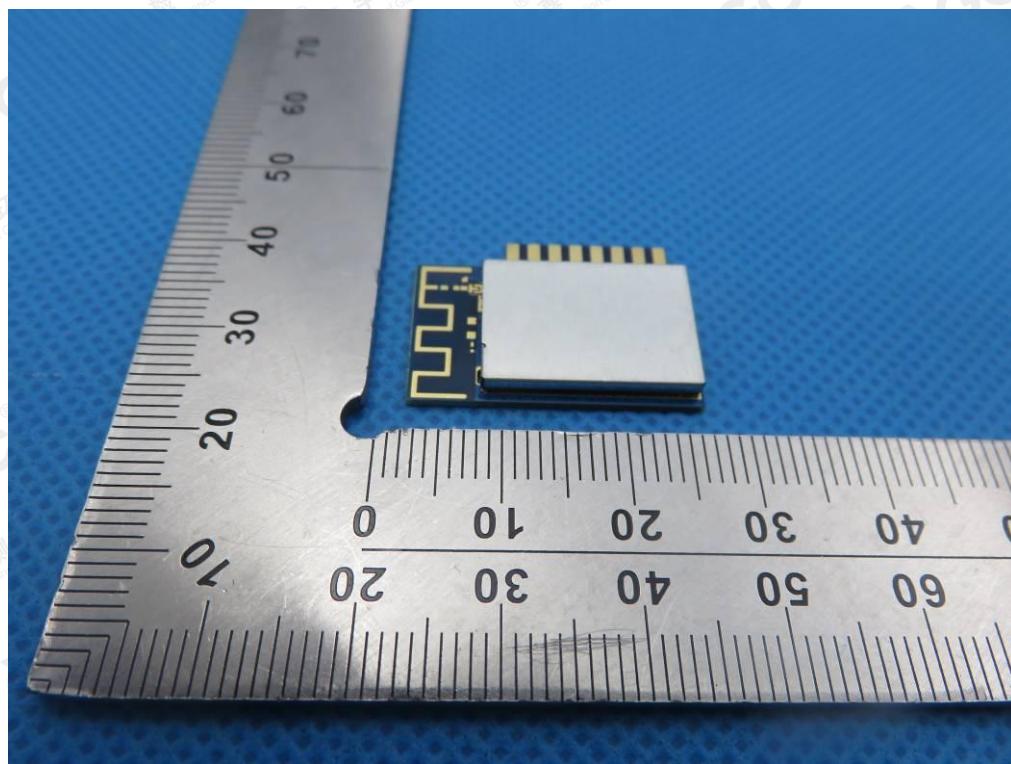
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FRONT VIEW OF EUT



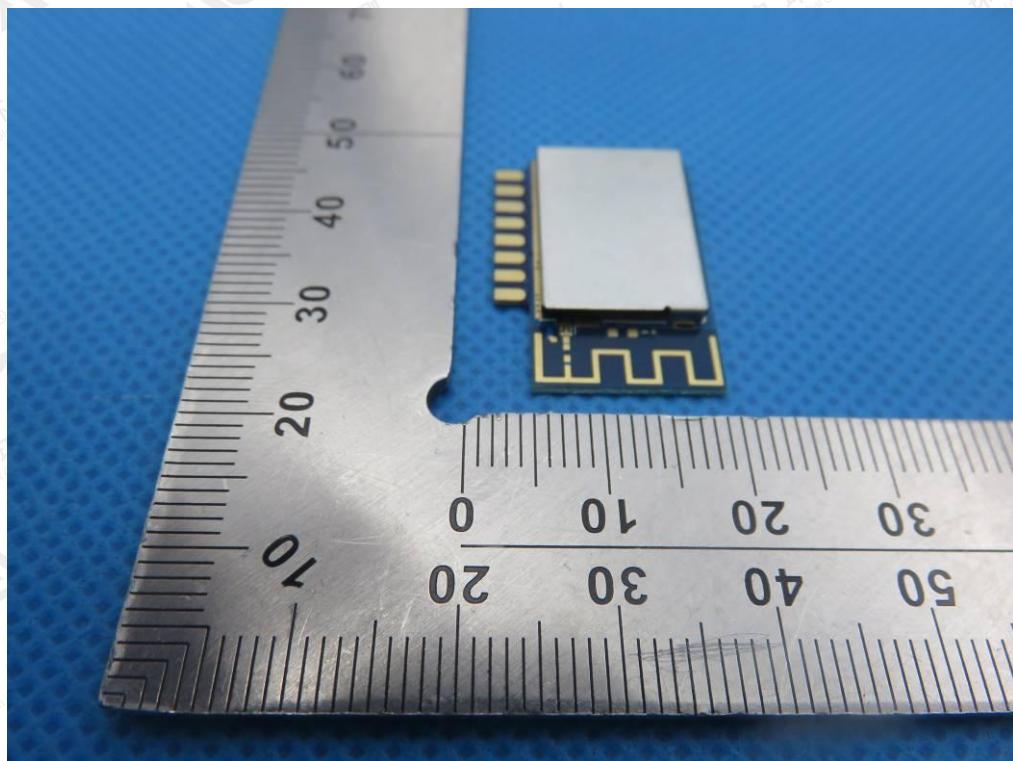
BACK VIEW OF EUT



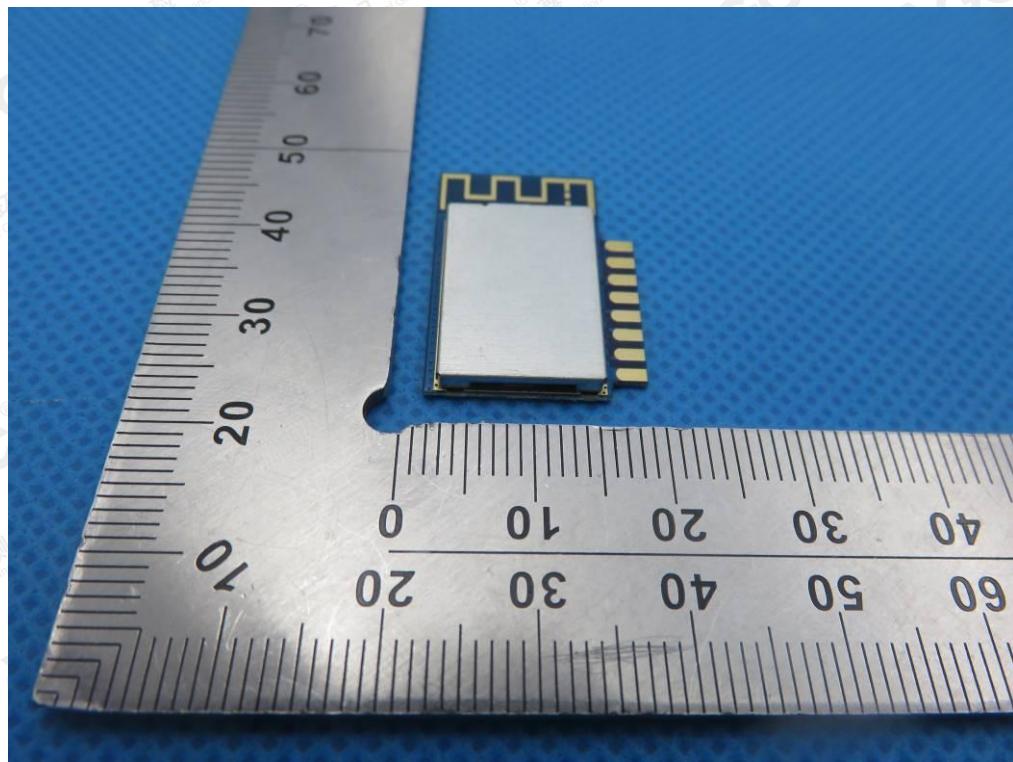
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LEFT VIEW OF EUT



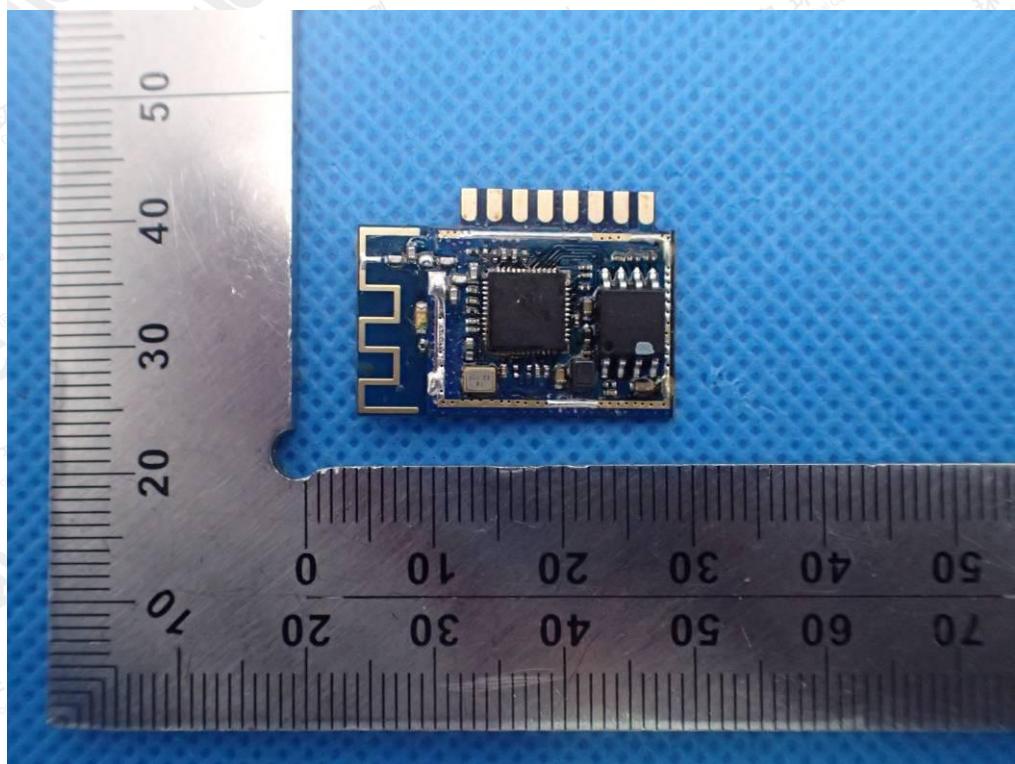
RIGHT VIEW OF EUT



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## OPEN VIEW OF EUT 1

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

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Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China