



## FCC/IC- TEST REPORT

Report Number	:	<b>68.950.15.288.01</b>	Date of Issue:	<u>October 28, 2015</u>
Model	:	<b>Le Max</b>		
Product Type	:	<b>TD LTE digital mobile phone</b>		
Applicant	:	<b>Lemobile Information Technology (Beijing) Co., Ltd</b>		
Address	:	<b>WENHUAYING NORTH (No.1, LINKONG 2nd St), GAOLIYING, SHUNYI DISTRICT, BEIJING, China</b>		
Production Facility	:	<b>MAINTEK COMPUTER (SUZHOU) CO LTD</b>		
Address	:	<b>NO. 233, JIN FENG ROAD, NEW DISTRICT, SUZHOU, CHINA</b>		
Test Result	:	<b><input checked="" type="checkbox"/> Positive <input type="checkbox"/> Negative</b>		
Total pages including Appendices	:	<b>115</b>		

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## 2 Details about the Test Laboratory

### Details about the Test Laboratory

#### Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
Building 12&13, Zhiheng Wisdomland Business Park,  
Nantou Checkpoint Road 2, Nanshan District,  
Shenzhen City, 518052,  
P. R. China

FCC Registration Number: 502708

Telephone: 86 755 8828 6998  
Fax: 86 755 828 5299

#### Test Site 2

Company name: Shenzhen Academy of Metrology and Quality Inspection  
National Digital Electronic Product Testing Center  
NETC Building, No.4 Tongfa Rd., Xili,  
Nanshan, Shenzhen,  
China

FCC Registration Number: 97379(open area test site) and  
274801(semi anechoic chamber).

Telephone: +86 755 8692 8965  
Fax: +86 755 8600 9898-31396

Remark: All test items were performed at Site 2.



### 3 Description of the Equipment under Test

#### Description of the Equipment Under Test

Product:	TD LTE digital mobile phone
Model no.:	Le Max
FCC ID:	2AFWMLEMAX
Options and accessories:	NIL
Rating:	DC 3.8V by Li-ion Battery or DC 5.0V/2A by adapter Powered by external power supply: Adaptor Input: 100-240VAC, 50/60Hz; 500mA Adaptor Output: 5.0V, 2A
RF Transmission Frequency:	2412-2462MHz for 802.11b/g/n-HT20 2422-2452MHz for 802.11n-HT40
No. of Operated Channel:	11
Modulation:	OFDM, DSSS
Antenna Type:	PIFA Antenna
Antenna Gain:	1.4dBi
Description of the EUT:	The Equipment Under Test (EUT) is a Mobile Phone with WIFI function which operated at 2.4GHz



## 4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2014 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to KDB558074 D01 DTS Meas Guidance v03r03 and ANSI C63.10 (2014).



## 5 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart C		Pages	Test Site	Test Result		
Test Condition	Pass			Fail	N/A	
§15.207	Conducted emission AC power port	10	Site 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247 (b) (1)	Conducted peak output power	14	Site 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(a)(1)	20dB bandwidth	---	---	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
§15.247(a)(1)	Carrier frequency separation	---	---	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
§15.247(a)(1)(iii)	Number of hopping frequencies	---	---	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
§15.247(a)(1)(iii)	Dwell Time	---	---	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
§15.247(a)(2)	6dB Bandwidth	21	Site 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(e)	Power spectral density	28	Site 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(d)	Spurious RF conducted emissions	35	Site 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(d)	Band edge	48	Site 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(d) & §15.209	Spurious radiated emissions for transmitter	53	Site 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.203	Antenna requirement	See note 1		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses an internal antenna, which gain is 1.4dBi. According to §15.203 and RSSGEN 8.3, it is considered sufficiently to comply with the provisions of this section.



## 6 General Remarks

### Remarks

This submittal(s) (test report) is intended for FCC ID: 2AFWMLEMAX complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules.

### SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed

- Not Performed

The Equipment under Test

- Fulfills the general approval requirements.

- Does not fulfill the general approval requirements.

Sample Received Date: September 6, 2015

Testing Start Date: September 7, 2015

Testing End Date: October 27, 2015

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by: \_\_\_\_\_ Prepared by: \_\_\_\_\_

A handwritten signature in black ink, appearing to read "John Zhi".

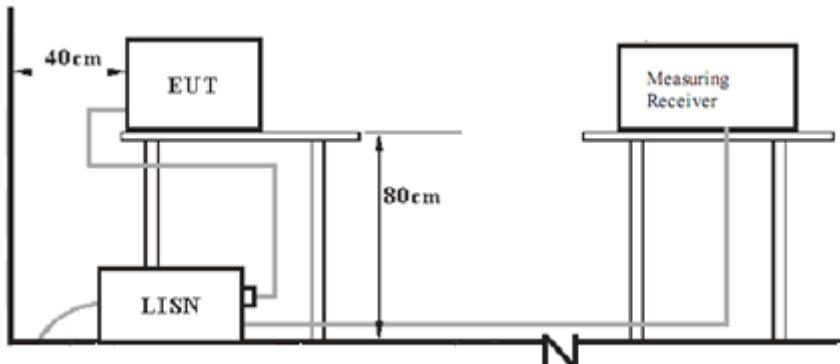
John Zhi  
EMC Project Manager

A handwritten signature in black ink, appearing to read "Alan Xiong".

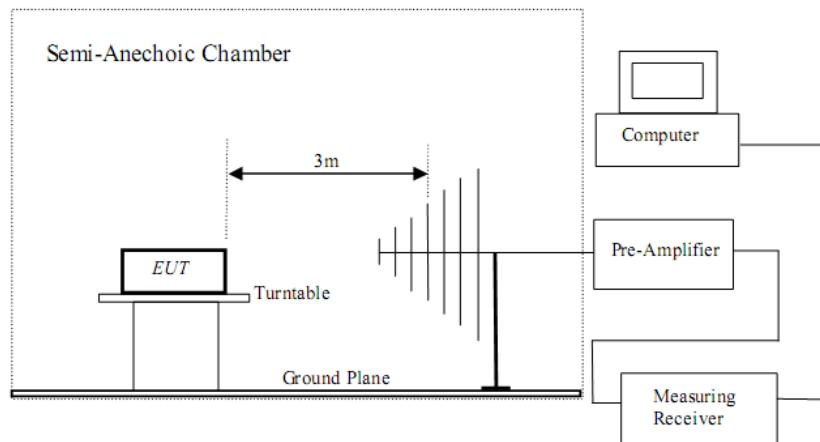
Alan Xiong  
EMC Project Engineer

## 7 Test Setups

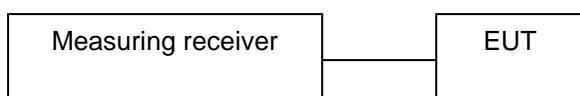
### 7.1 AC Power Line Conducted Emission test setups



### 7.1 Radiated test setups



### 7.2 Conducted RF test setups





## 8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
---	---	---	---

The system was configured to non-hopping mode.

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power



## 9 Technical Requirement

### 9.1 Conducted Emission

#### Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

#### Limit

According to §15.207, conducted emissions limit as below:

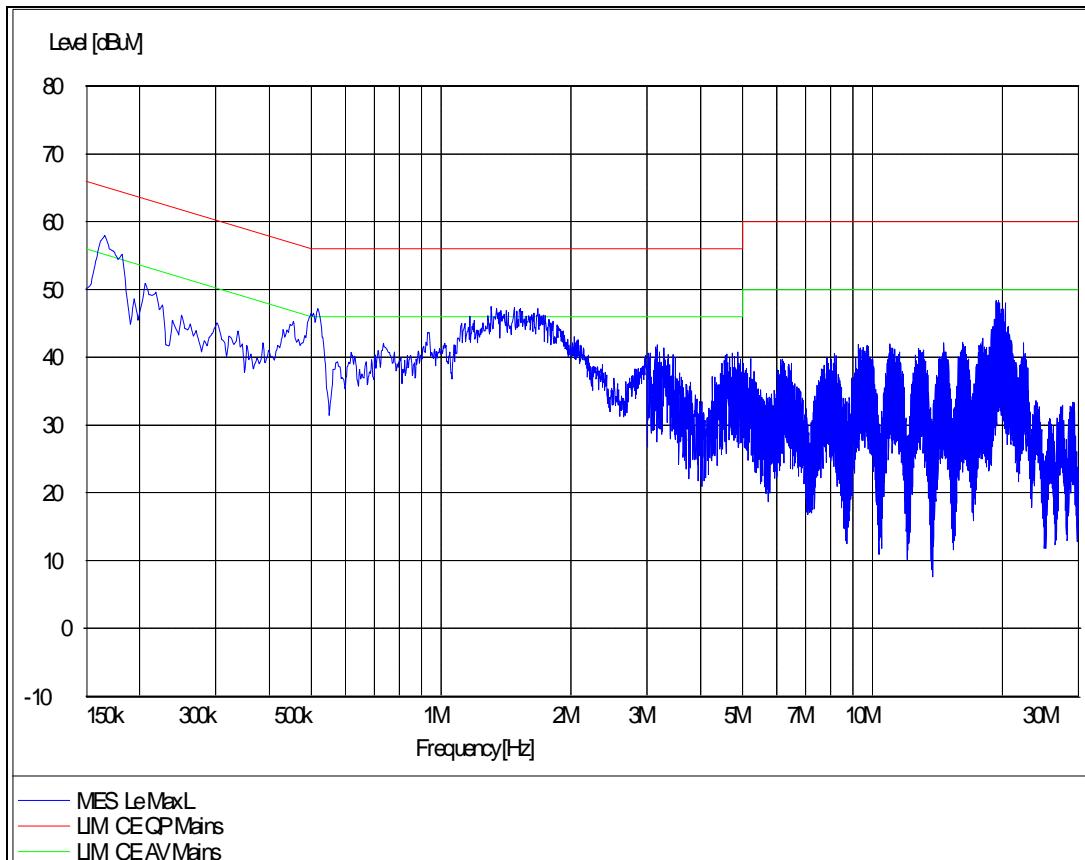
Frequency MHz	QP Limit dB $\mu$ V	AV Limit dB $\mu$ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Decreasing linearly with logarithm of the frequency



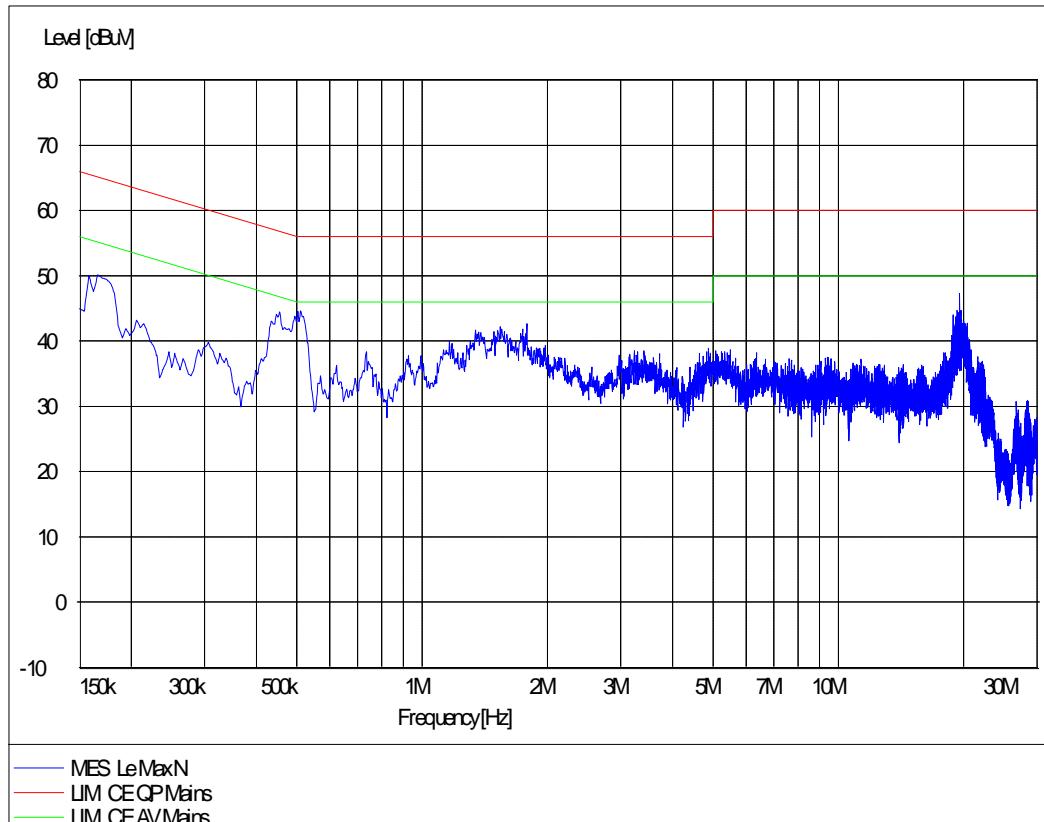
## Conducted Emission

Product Type : TD LTE digital mobile phone  
 M/N : Le Max  
 Operating Condition : Charging and Transmitting  
 Test Specification : Line  
 Comment : AC 120V/60Hz



## Conducted Emission

Product Type : TD LTE digital mobile phone  
 M/N : Le Max  
 Operating Condition : Charging and Transmitting  
 Test Specification : Neutral  
 Comment : AC 120V/60Hz





## Conducted Emission

Model No.: Le Max								
Test mode: Charging and transmitter								
	Frequency (MHz)	Correction Factor (dB)	Quasi-Peak			Average		
			Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)	Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V)	Limits (dB $\mu$ V)
Line	0.166	9.7	38.5	48.2	65.2	22.3	32.0	55.2
	0.518	9.8	32.4	42.2	56.0	22.9	32.7	46.0
	1.342	9.8	31.6	41.4	56.0	21.0	30.8	46.0
	1.498	9.8	31.7	41.5	56.0	21.4	31.2	46.0
	1.670	9.8	30.9	40.7	56.0	20.6	30.4	46.0
	19.384	9.9	32.4	42.3	60.0	22.8	32.7	50.0
Neutral	0.446	9.7	29.7	39.4	56.9	22.9	32.6	46.9
	0.510	9.8	29.7	39.5	56.0	22.2	32.0	46.0
	1.538	9.8	26.8	36.6	56.0	19.4	29.2	46.0
	19.512	9.9	27.6	37.5	60.0	21.7	31.6	50.0
	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--

REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)  
 2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)  
 3. The other emission levels were very low against the limit.



## 9.2 Conducted peak output power

### Test Method

1. Use the following spectrum analyzer settings:  
RBW > the 6 dB bandwidth of the emission being measured, VBW≥3RBW, Span≥3RBW  
Sweep = auto, Detector function = peak, Trace = max hold.
2. Add a correction factor to the display.
3. Use a power meter to measure the conducted peak output power.

### Limits

According to §15.247 (b) (1), conducted peak output power limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤1	≤30

Test result as below table

802.11B

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2412MHz	15.56	Pass
Middle channel 2437MHz	15.23	Pass
High channel 2462MHz	15.44	Pass







802.11G

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2412MHz	15.76	Pass
Middle channel 2437MHz	15.50	Pass
High channel 2462MHz	15.69	Pass





802.11N20

Frequency MHz	Output Power dBm	Result
Low channel 2412MHz	15.25	Pass
Middle channel 2437MHz	14.97	Pass
High channel 2462MHz	15.18	Pass

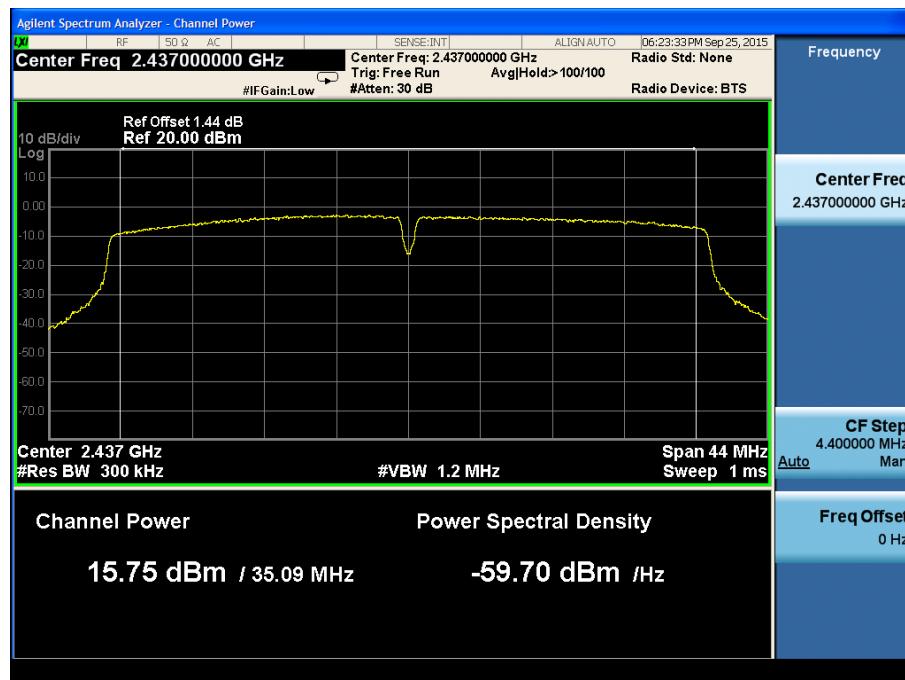
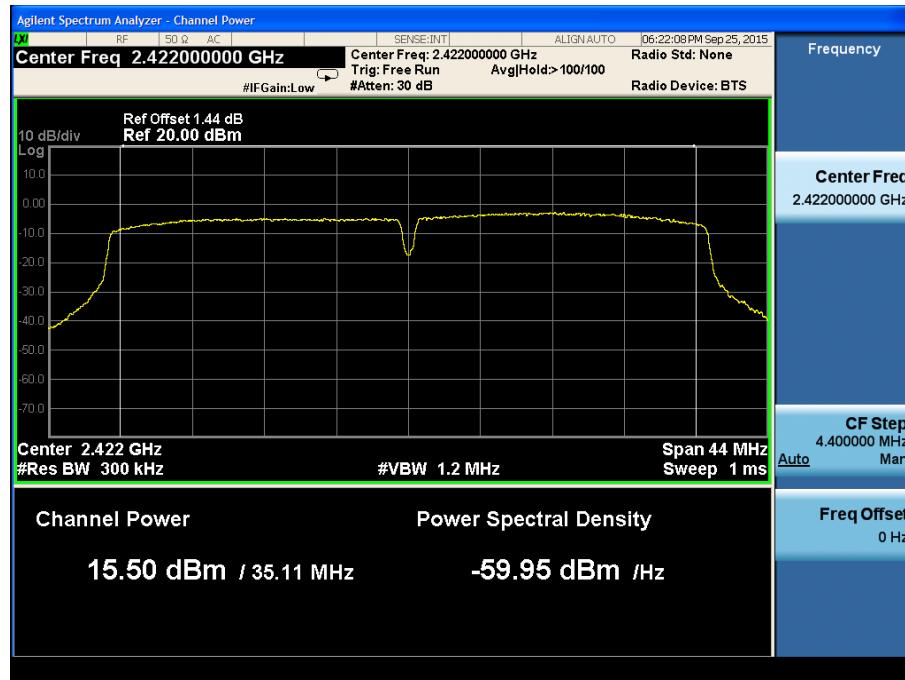


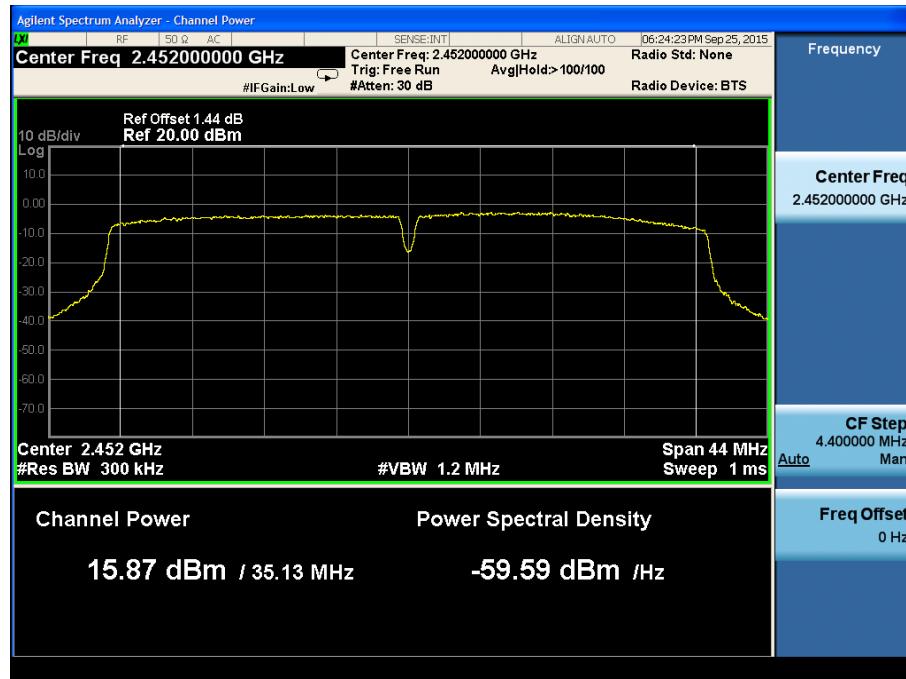




802.11N40

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2422MHz	15.50	Pass
Middle channel 2437MHz	15.75	Pass
High channel 2452MHz	15.87	Pass







## 9.3 6dB Bandwidth

### Test Method

1. Use the following spectrum analyzer settings:  
RBW=100K, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
2. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be  $\geq$  6 dB.
3. Allow the trace to stabilize, record the X dB Bandwidth value.

### Limit

Limit [kHz]

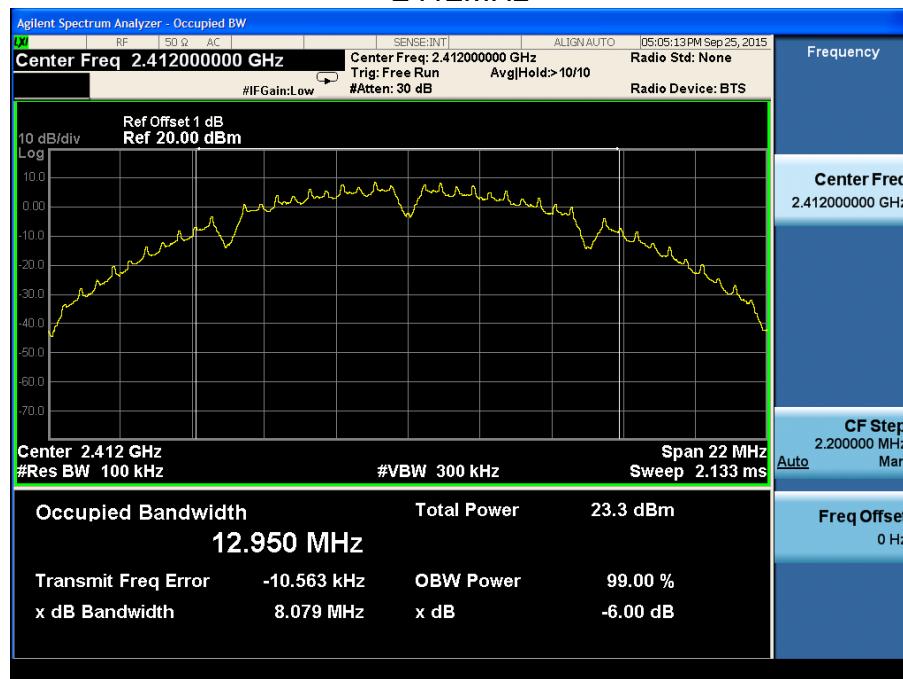
$\geq 500$

### Test result

802.11B

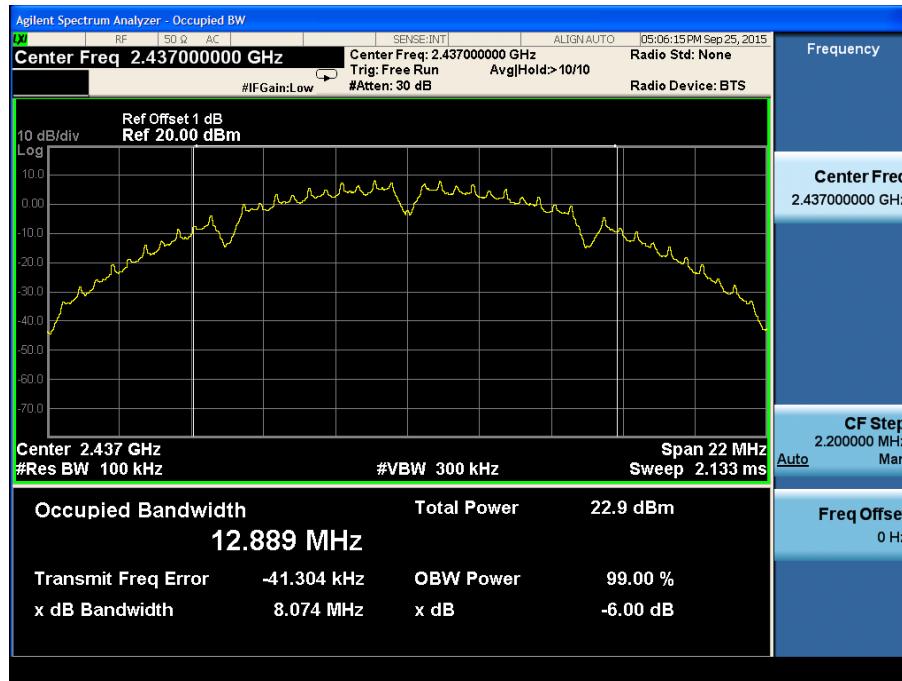
Frequency MHz	6dB bandwidth MHz	Result
Low channel 2412MHz	8.079	Pass
Middle channel 2437MHz	8.074	Pass
High channel 2462MHz	8.064	Pass

2412MHz

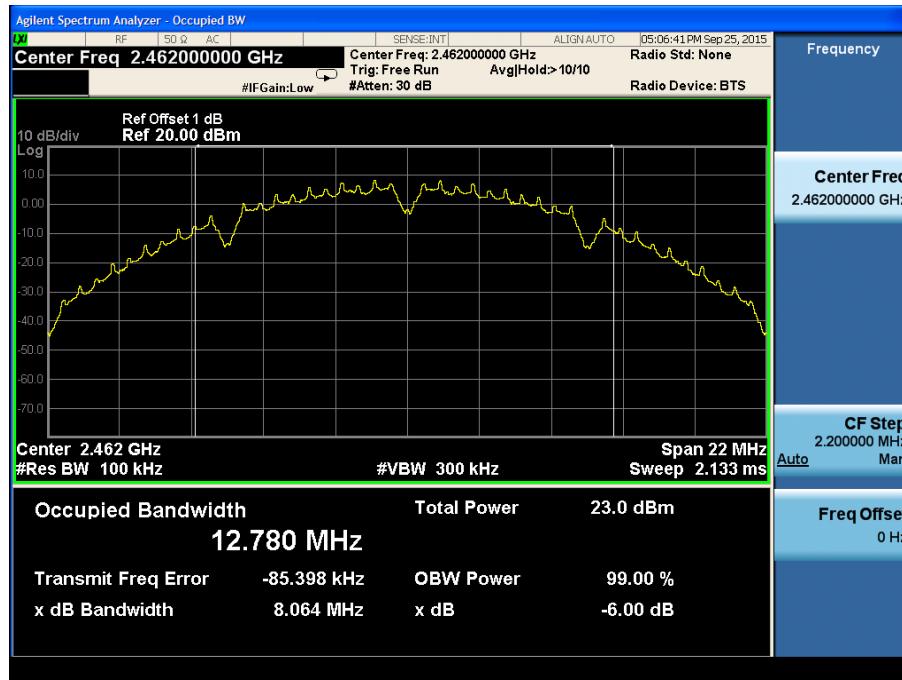




## 2437MHz



## 2462MHz





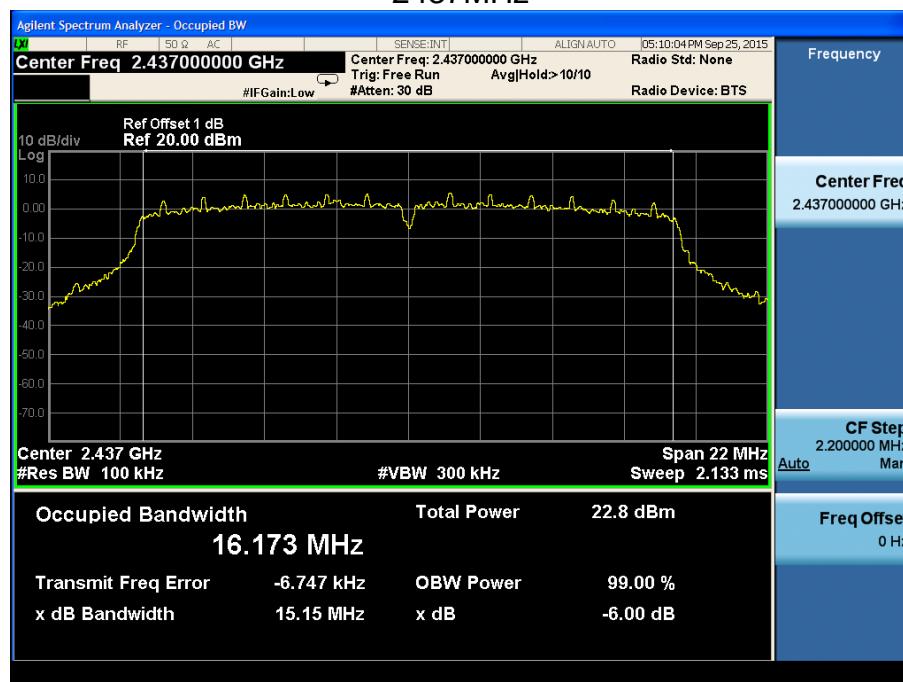
802.11G

Frequency MHz	6dB bandwidth MHz	Result
Low channel 2412MHz	15.16	Pass
Middle channel 2437MHz	15.15	Pass
High channel 2462MHz	15.14	Pass

## 2412MHz

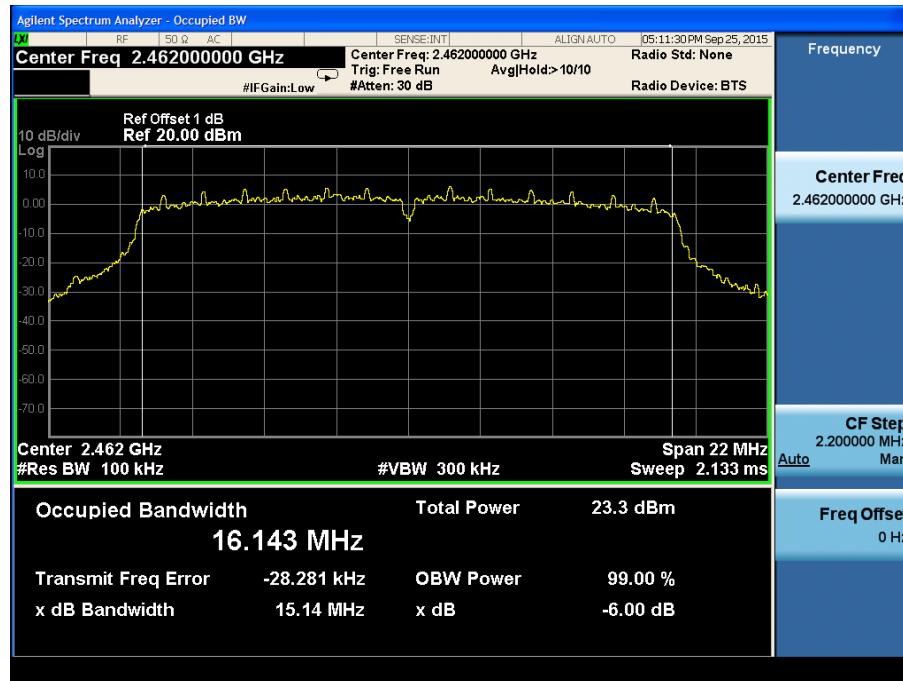


## 2437MHz





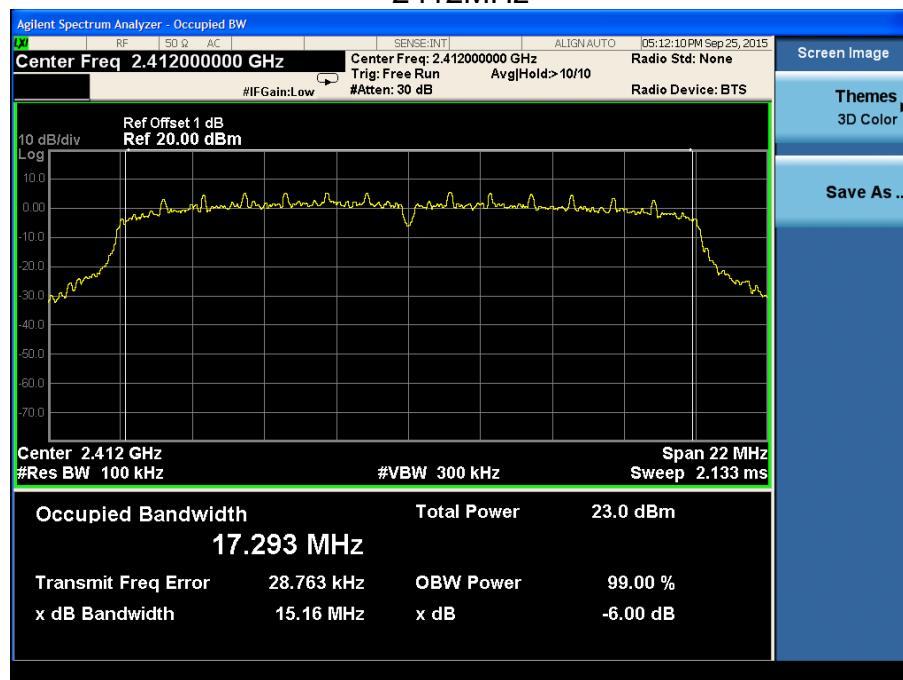
## 2462MHz



## 802.11N20

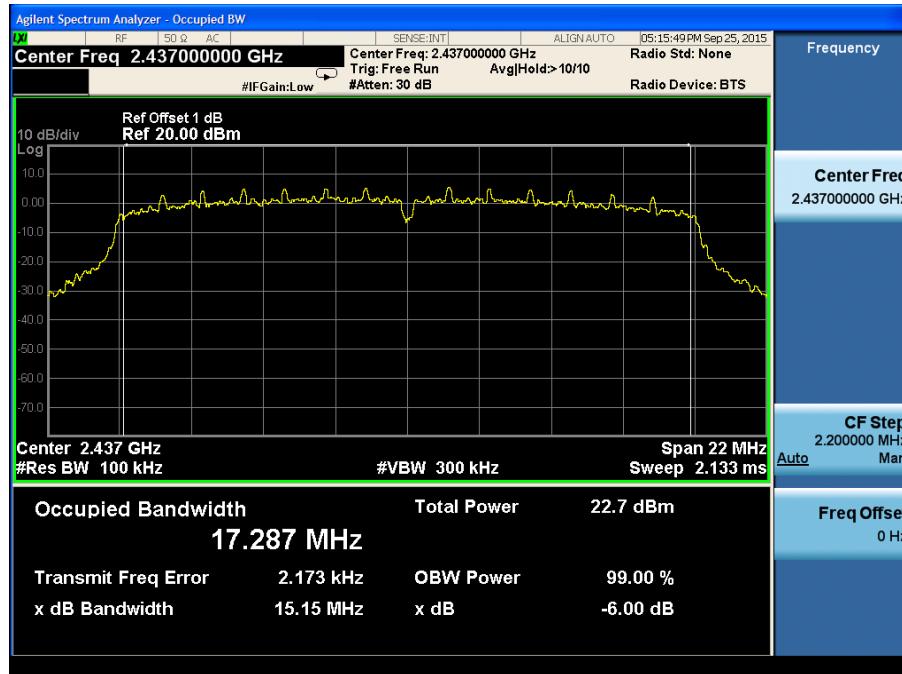
Frequency MHz	6dB bandwidth MHz	Result
Low channel 2412MHz	15.16	Pass
Middle channel 2437MHz	15.15	Pass
High channel 2462MHz	15.14	Pass

## 2412MHz

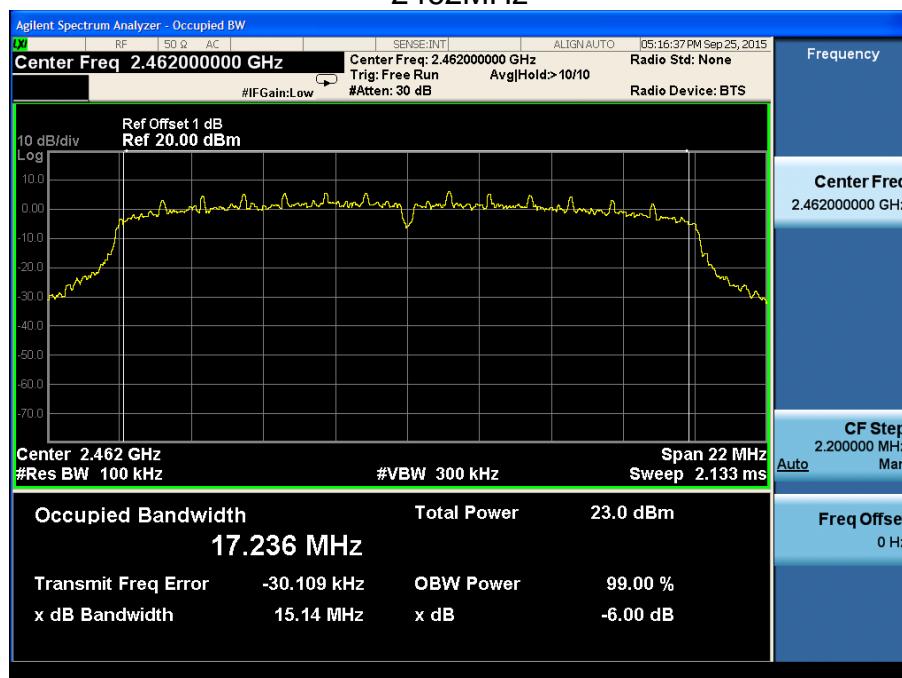




## 2437MHz



## 2462MHz

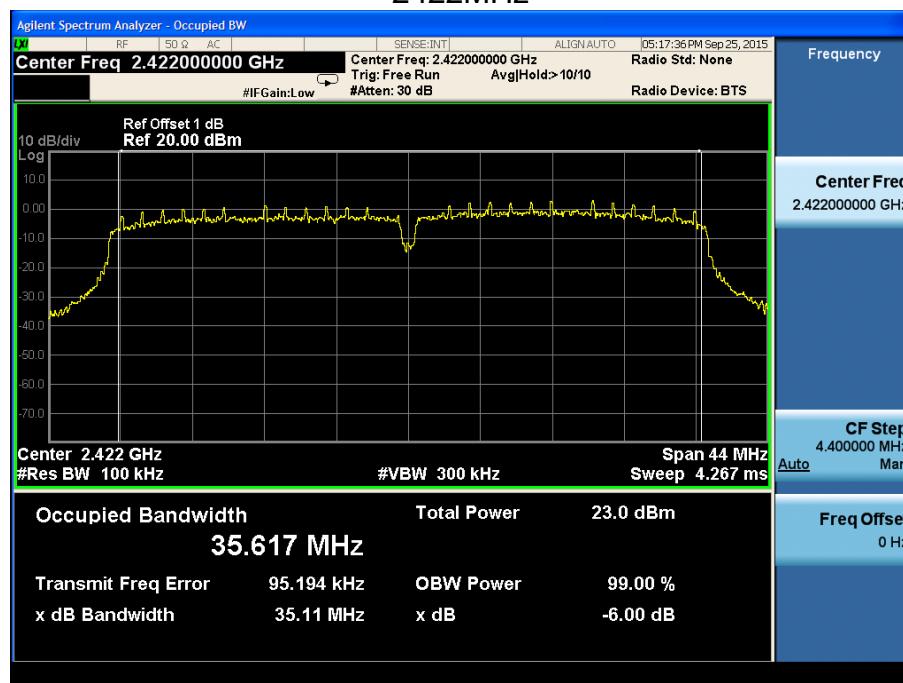




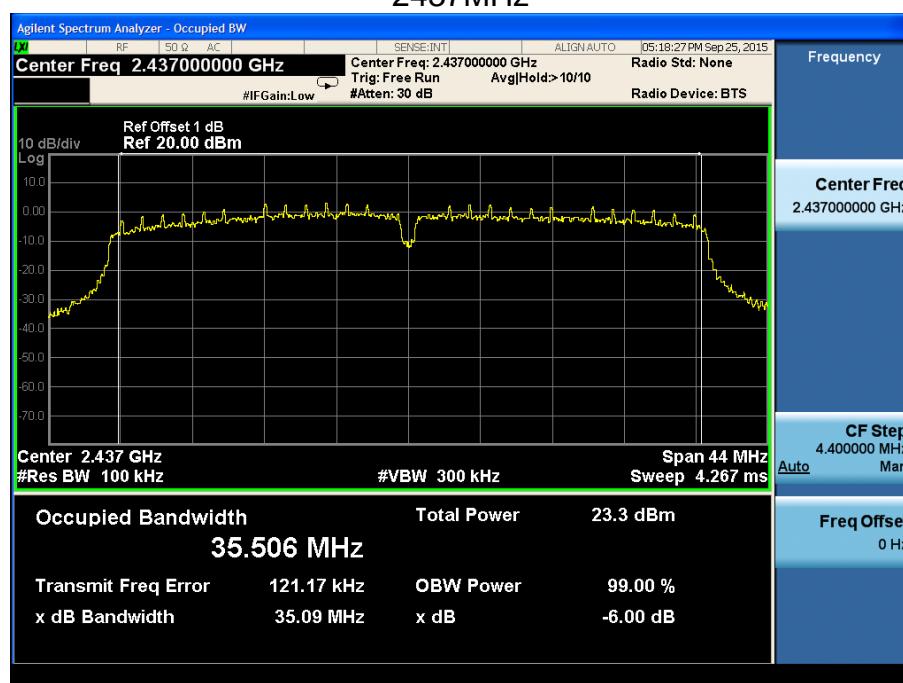
802.11N40

Frequency MHz	6dB bandwidth MHz	Result
Low channel 2422MHz	35.11	Pass
Middle channel 2437MHz	35.09	Pass
High channel 2452MHz	35.13	Pass

## 2422MHz

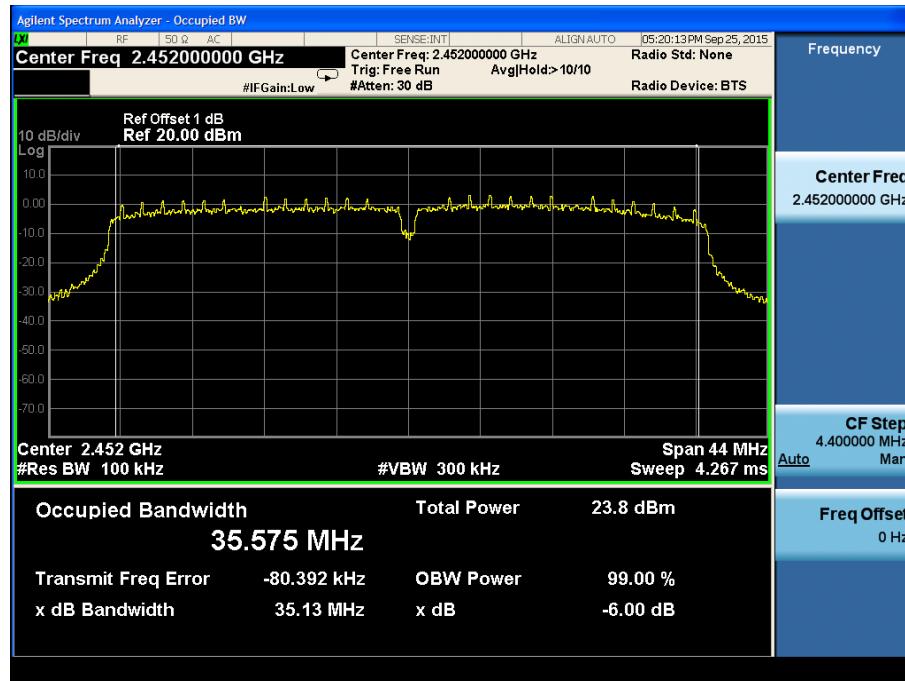


## 2437MHz





## 2462MHz





## 9.4 Power spectral density

### Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

1. Set analyzer center frequency to DTS channel center frequency.  
RBW=100kHz, VBW $\geq$ 3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
2. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
3. Repeat above procedures until other frequencies measured were completed.

### Limit

**Limit [dBm]**

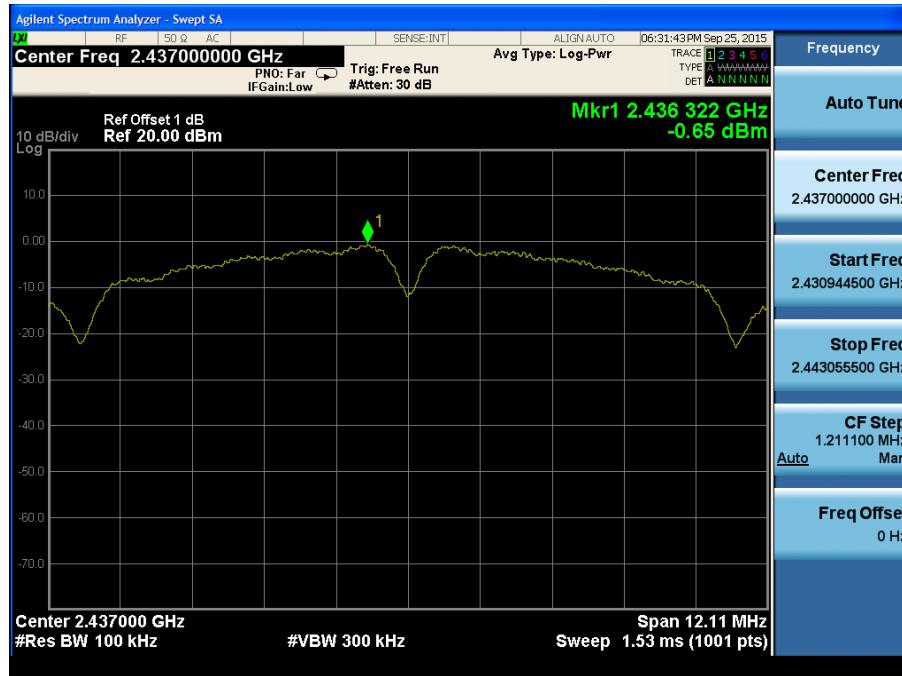
$\leq 8$

### Test result

802.11 B

Frequency MHz	Power spectral density dBm	Result
Low channel 2412MHz	-0.35	Pass
Middle channel 2437MHz	-0.65	Pass
High channel 2462MHz	-0.10	Pass

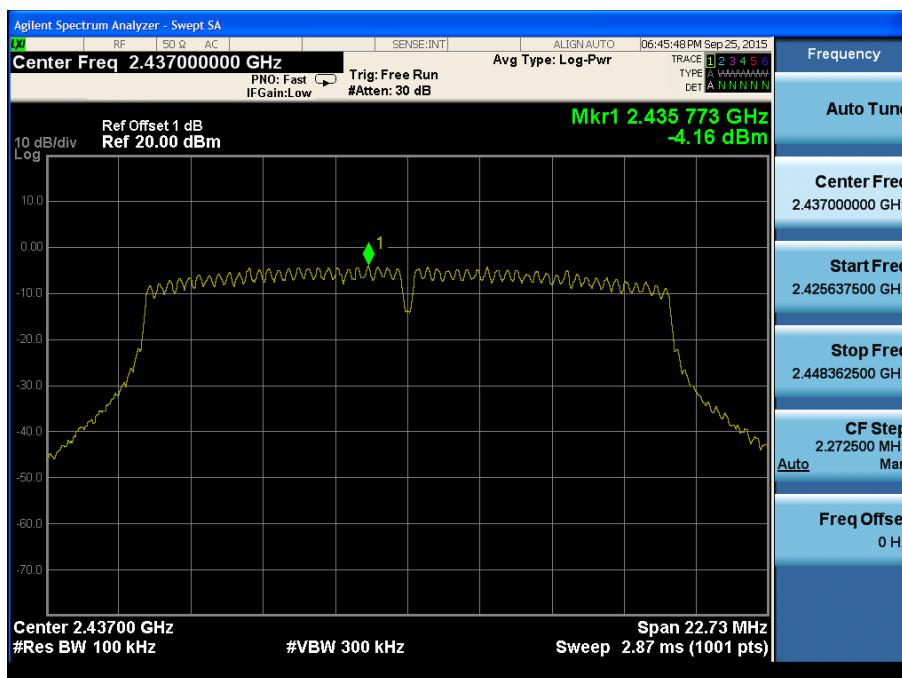
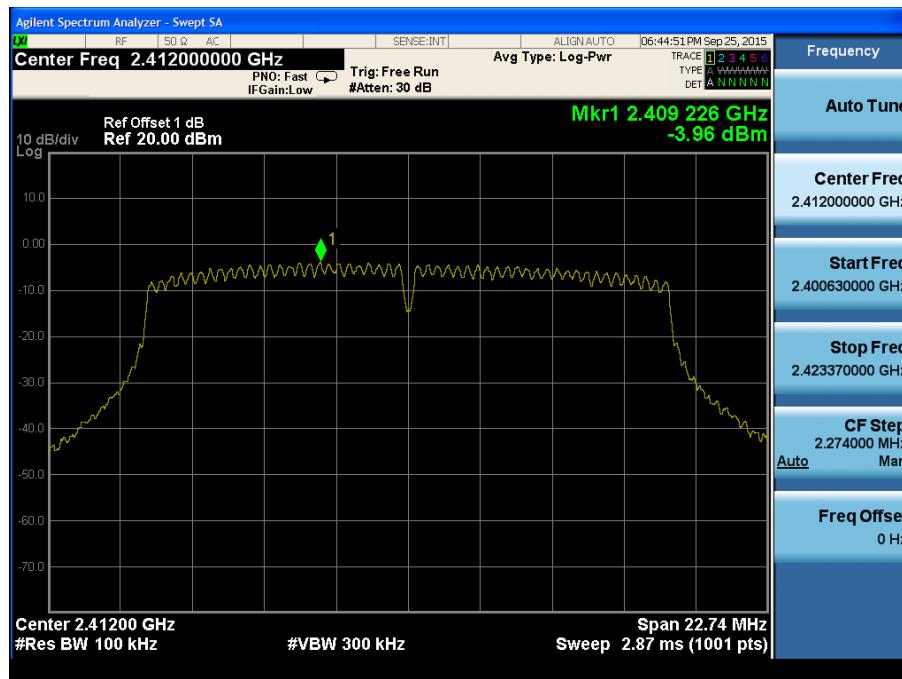


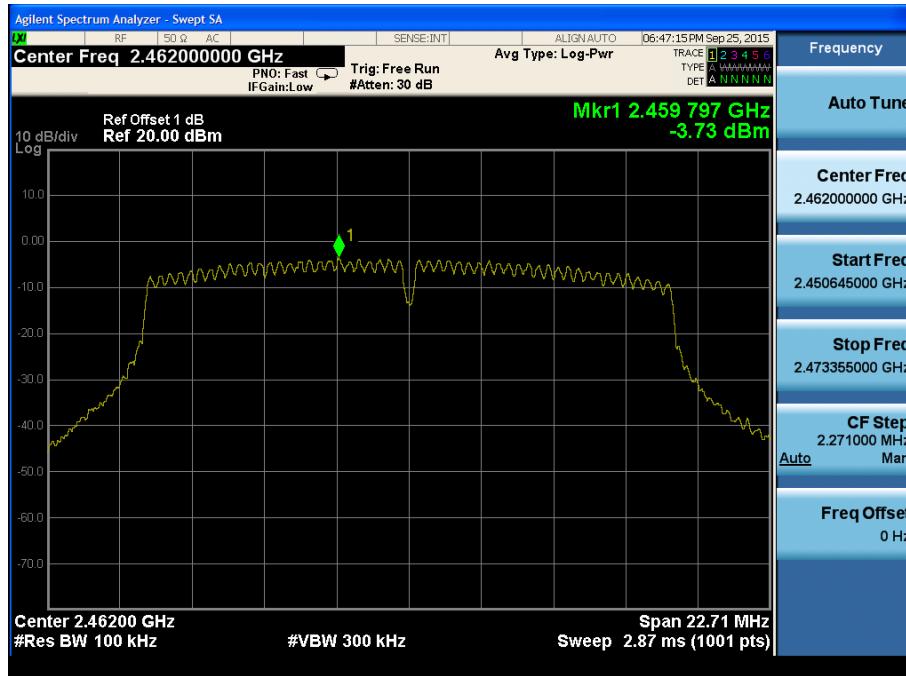




802.11 G

Frequency MHz	Power spectral density dBm	Result
Low channel 2412MHz	-3.96	Pass
Middle channel 2437MHz	-4.16	Pass
High channel 2462MHz	-3.73	Pass

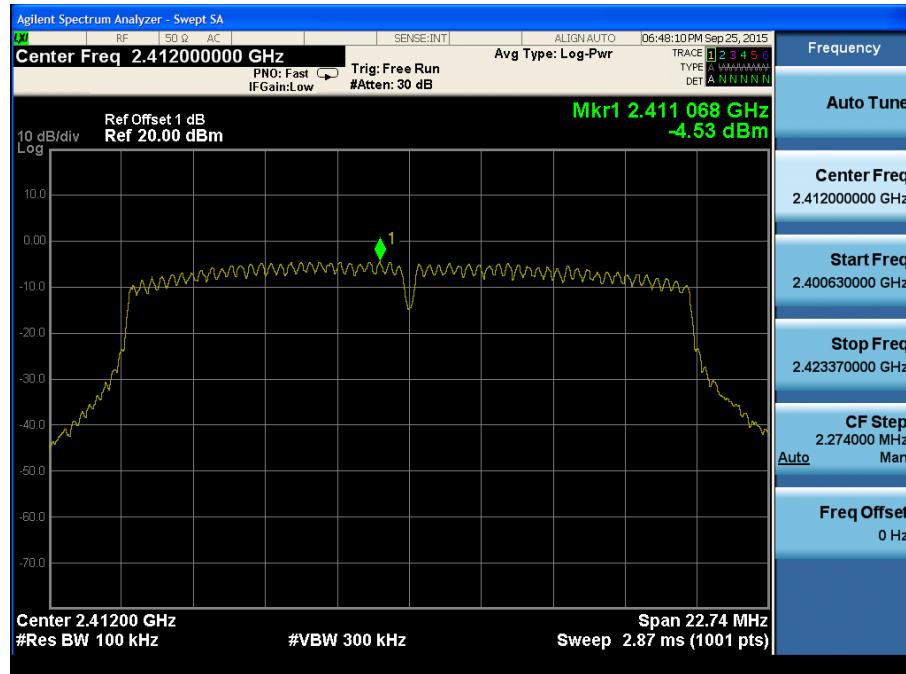


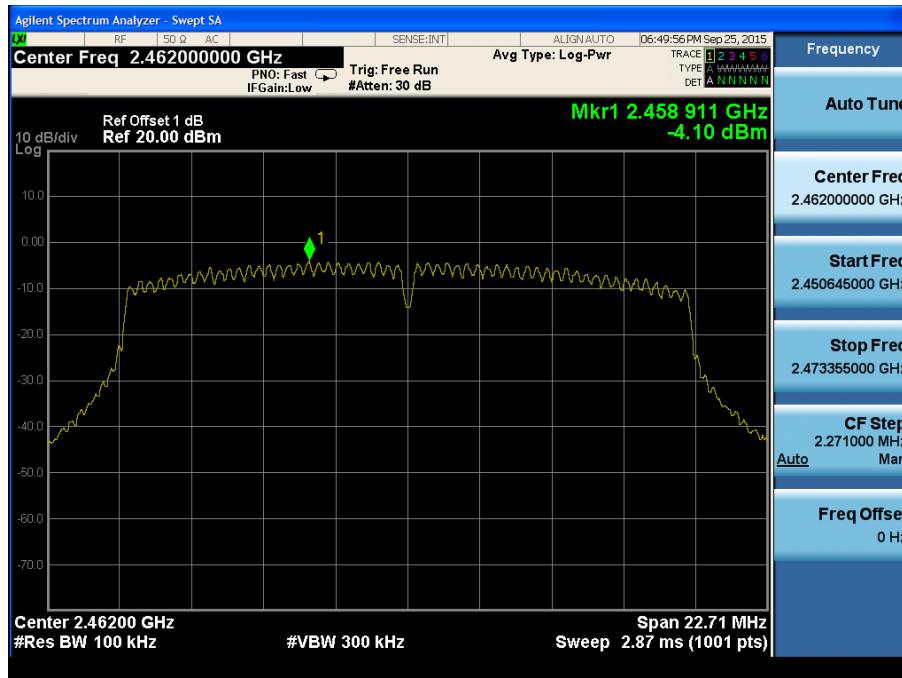
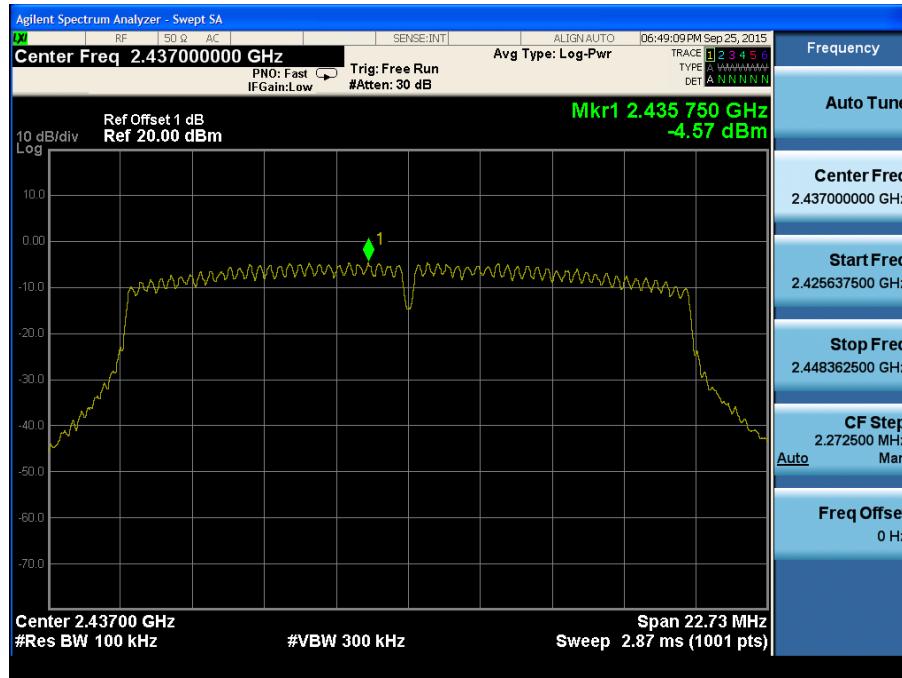


802.11 N20

Frequency	Power spectral density	Result
MHz	dBm	

Frequency	Power spectral density	Result
MHz	dBm	
Low channel 2412MHz	-4.53	Pass
Middle channel 2437MHz	-4.57	Pass
High channel 2462MHz	-4.10	Pass







802.11 N40

Frequency MHz	Power spectral density dBm	Result
Low channel 2422MHz	-7.35	Pass
Middle channel 2437MHz	-8.05	Pass
High channel 2452MHz	-6.92	Pass







## 9.5 Spurious RF conducted emissions

### Test Method

1. Establish a reference level by using the following procedure:
  - a. Set RBW=100 kHz. VBW $\geq$ 3RBW. Detector =peak, Sweep time = auto couple, Trace mode = max hold.
  - b. Allow trace to fully stabilize, use the peak marker function to determine the maximum PSD level.
2. Use the maximum PSD level to establish the reference level.
  - a. Set the center frequency and span to encompass frequency range to be measured.
  - b. Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements, report the three highest emissions relative to the limit.
3. Repeat above procedures until other frequencies measured were completed.

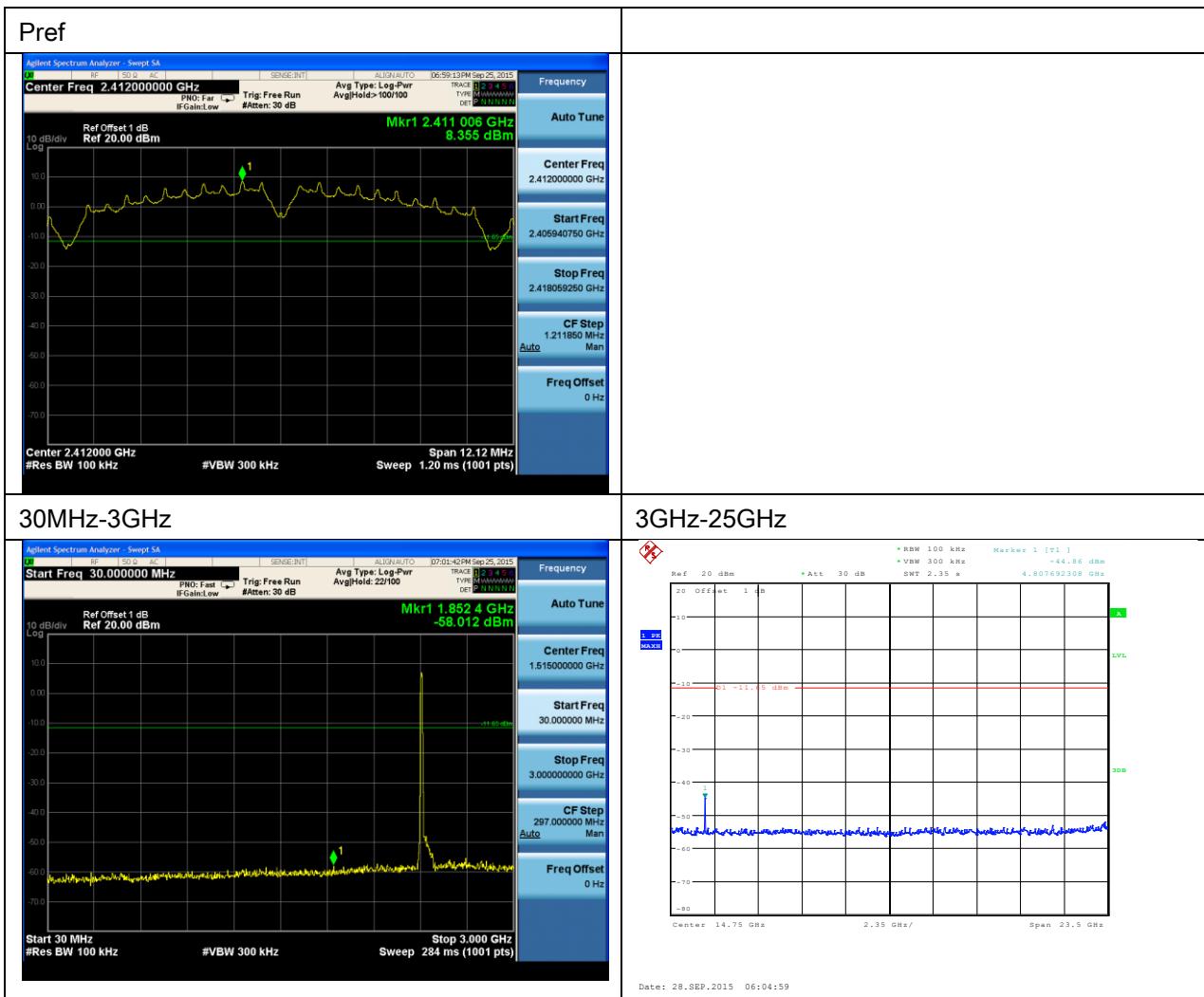
### Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20



## Test result 802.11 B

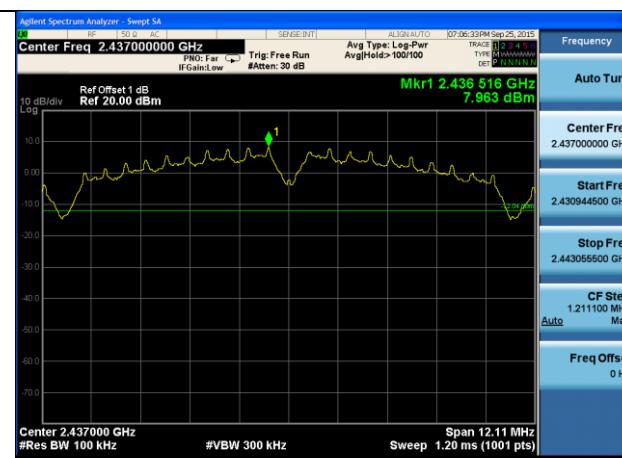
2412MHz





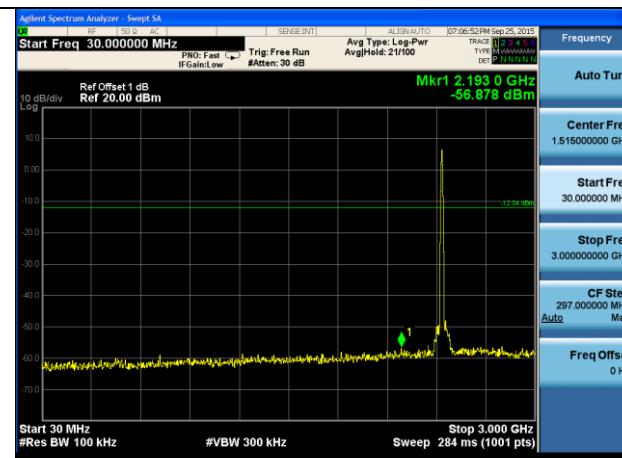
2437MHz

## Pref



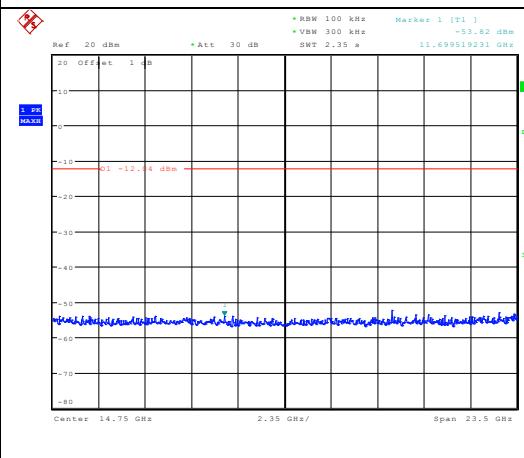
Frequency  
Auto Tune  
Center Freq 2.437000000 GHz  
Start Freq 2.430944500 GHz  
Stop Freq 2.443065600 GHz  
CF Step 1.211100 MHz Auto  
Freq Offset 0 Hz

## 30MHz-3GHz



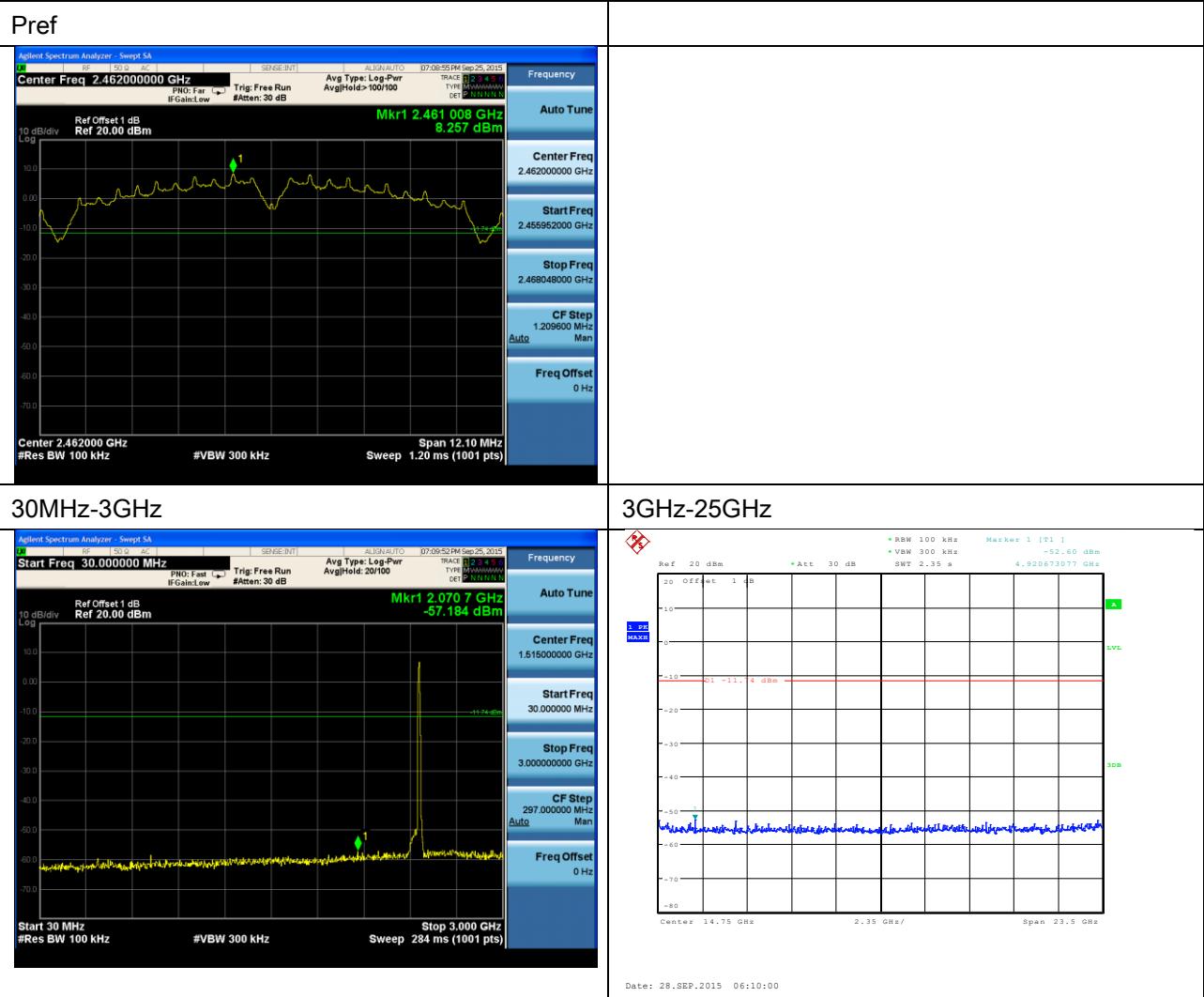
Frequency  
Auto Tune  
Center Freq 1.515000000 GHz  
Start Freq 30.0000000 MHz  
Stop Freq 3.000000000 GHz  
CF Step 297.000000 MHz Auto  
Freq Offset 0 Hz

## 3GHz-25GHz





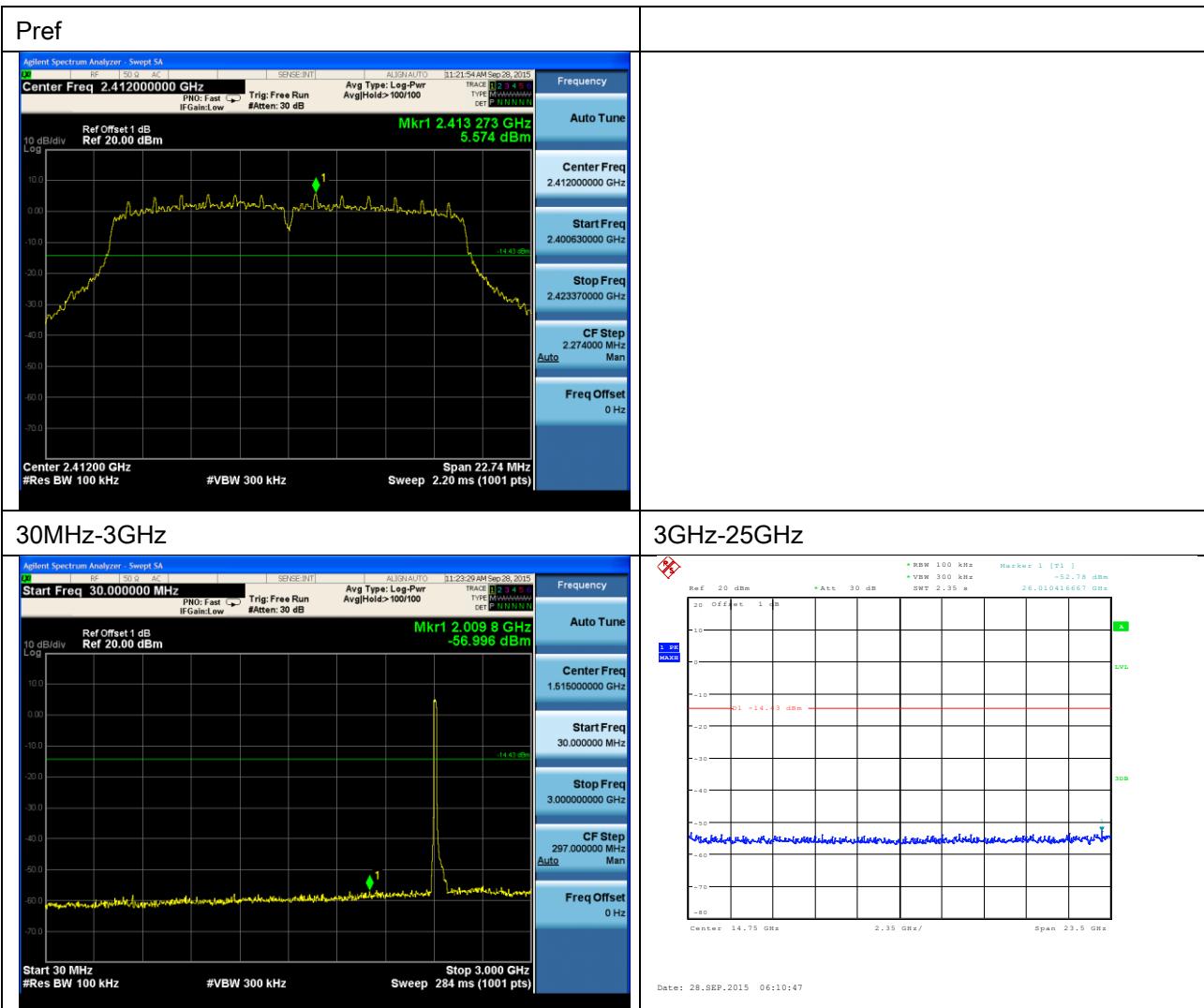
## 2462MHz





802.11 G

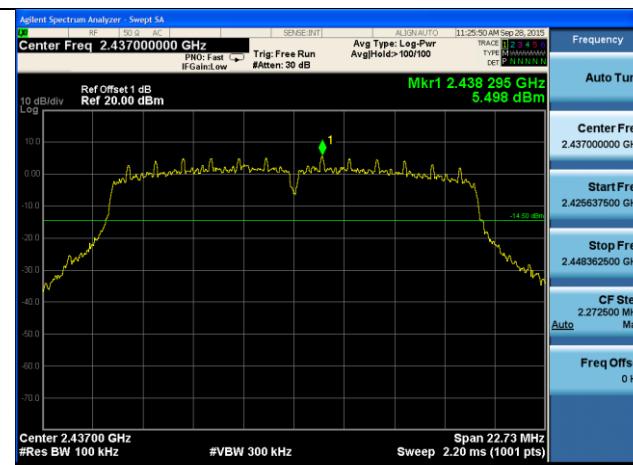
2412MHz



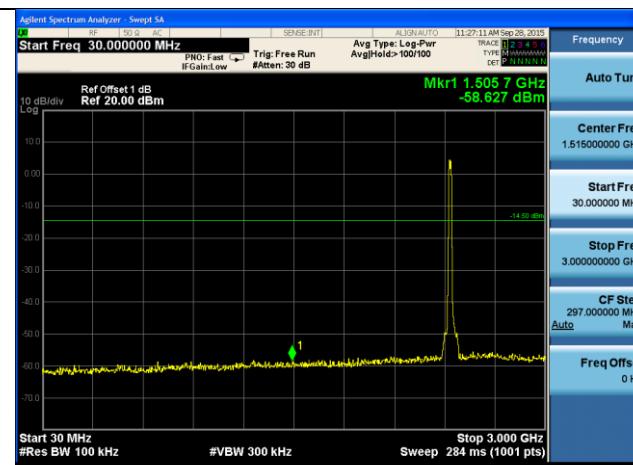


## 2437MHz

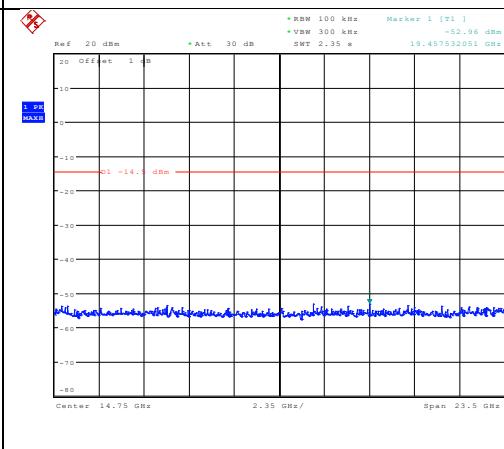
## Pref



## 30MHz-3GHz

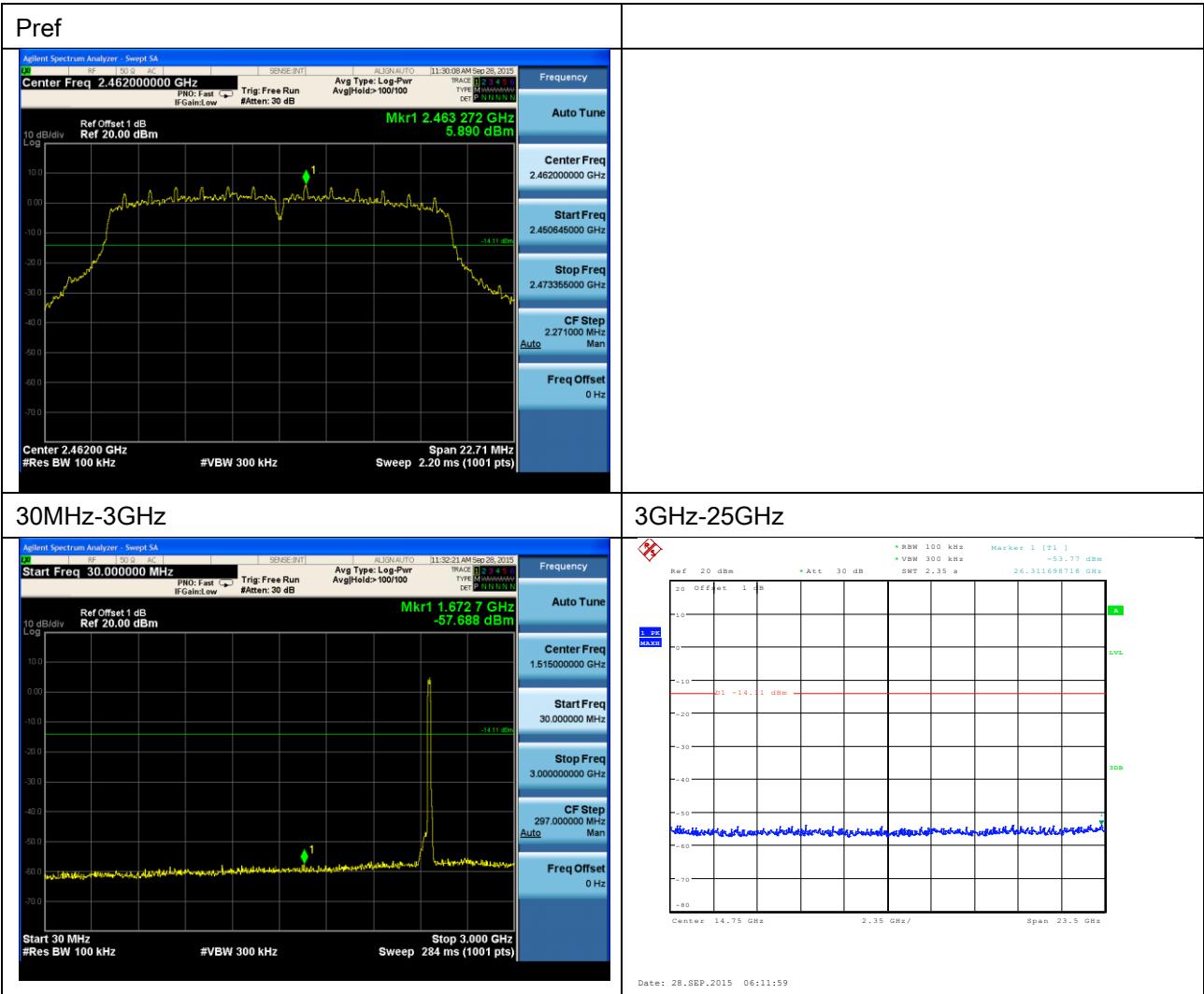


## 3GHz-25GHz





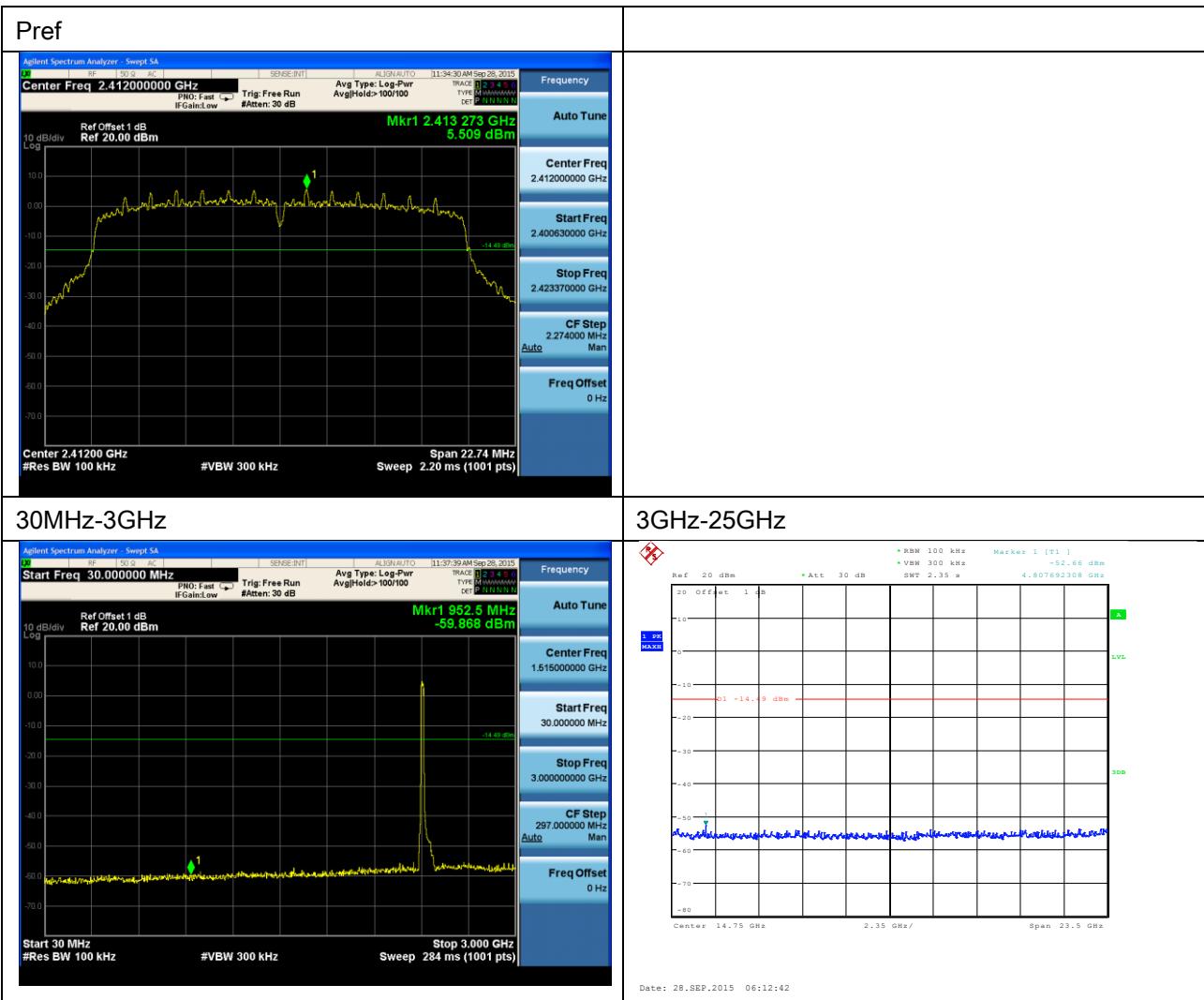
## 2462MHz





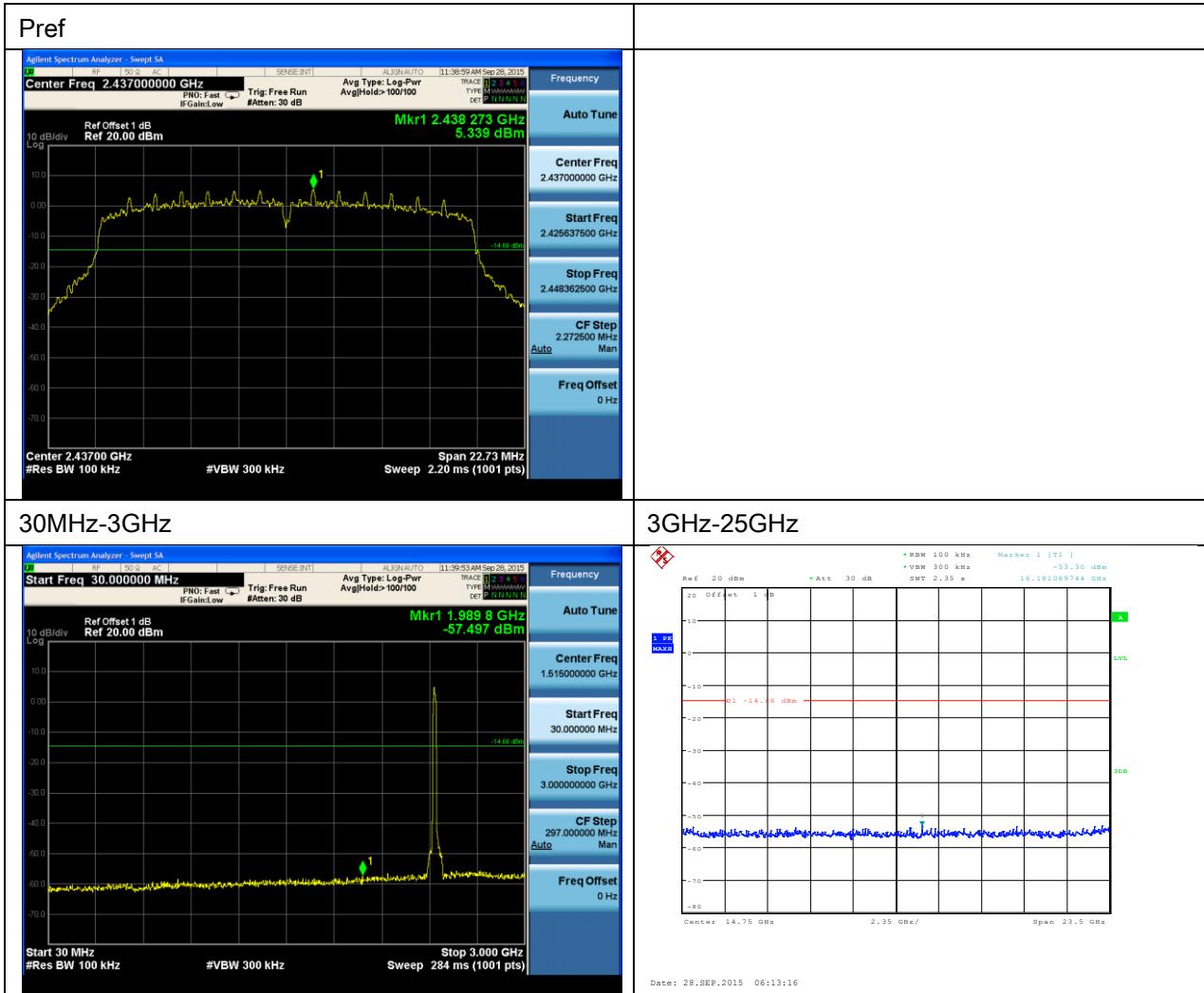
802.11 N20

2412MHz





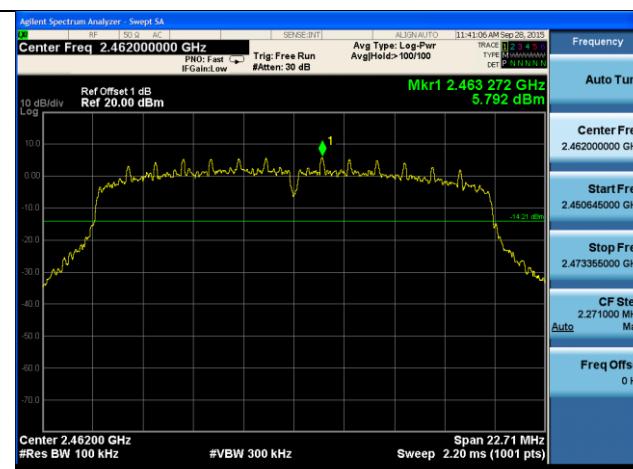
2437MHz



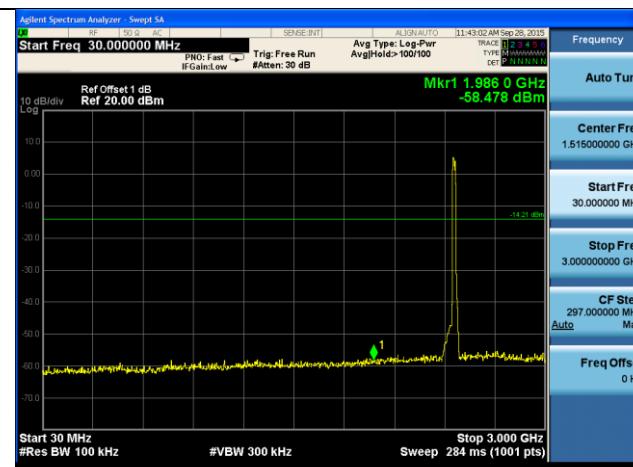


## 2462MHz

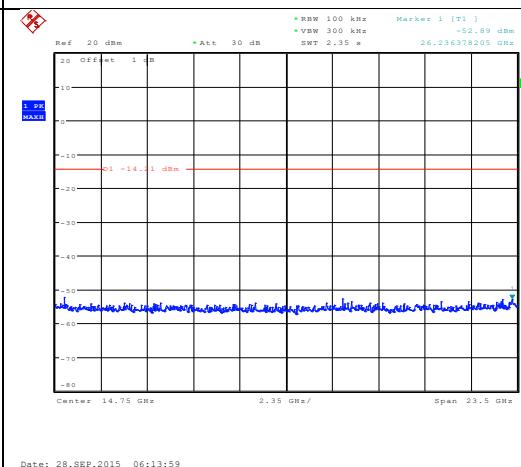
## Pref



## 30MHz-3GHz



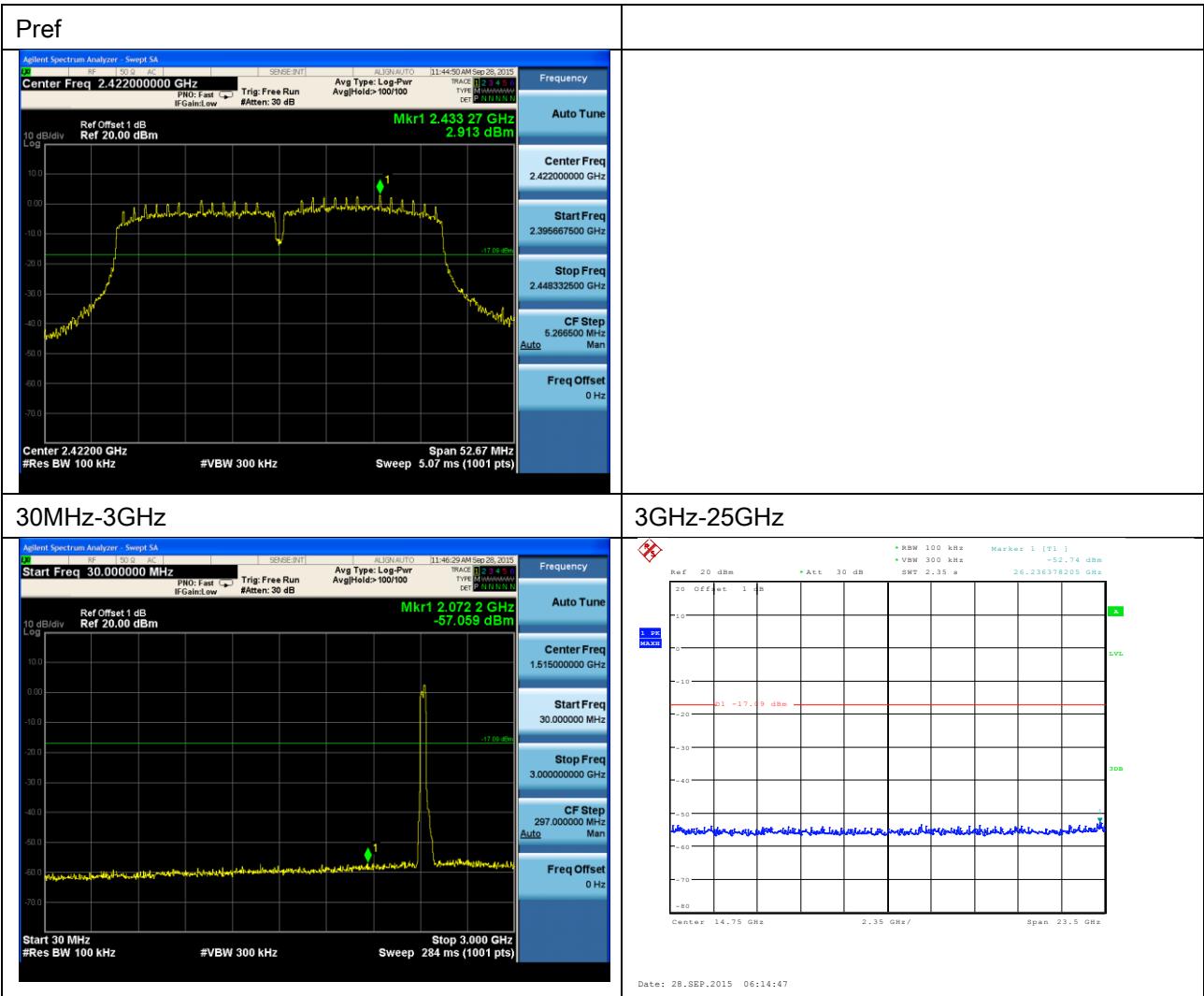
## 3GHz-25GHz





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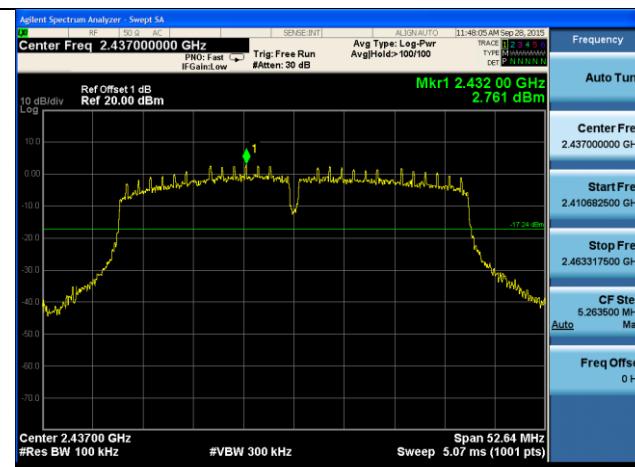
2422MHz



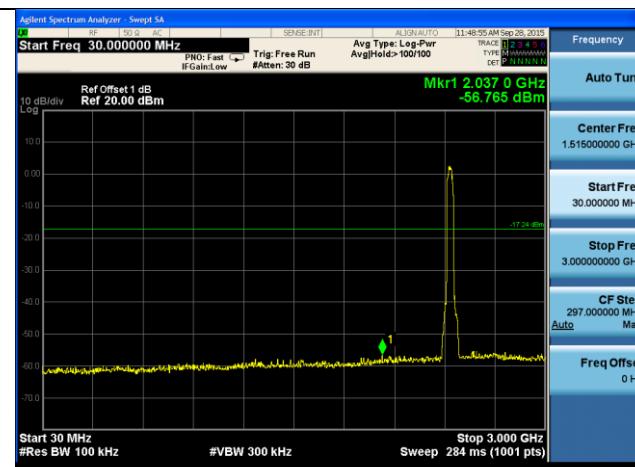


## 2437MHz

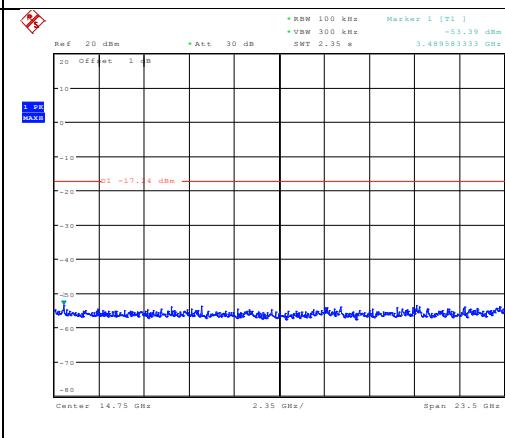
## Pref



## 30MHz-3GHz

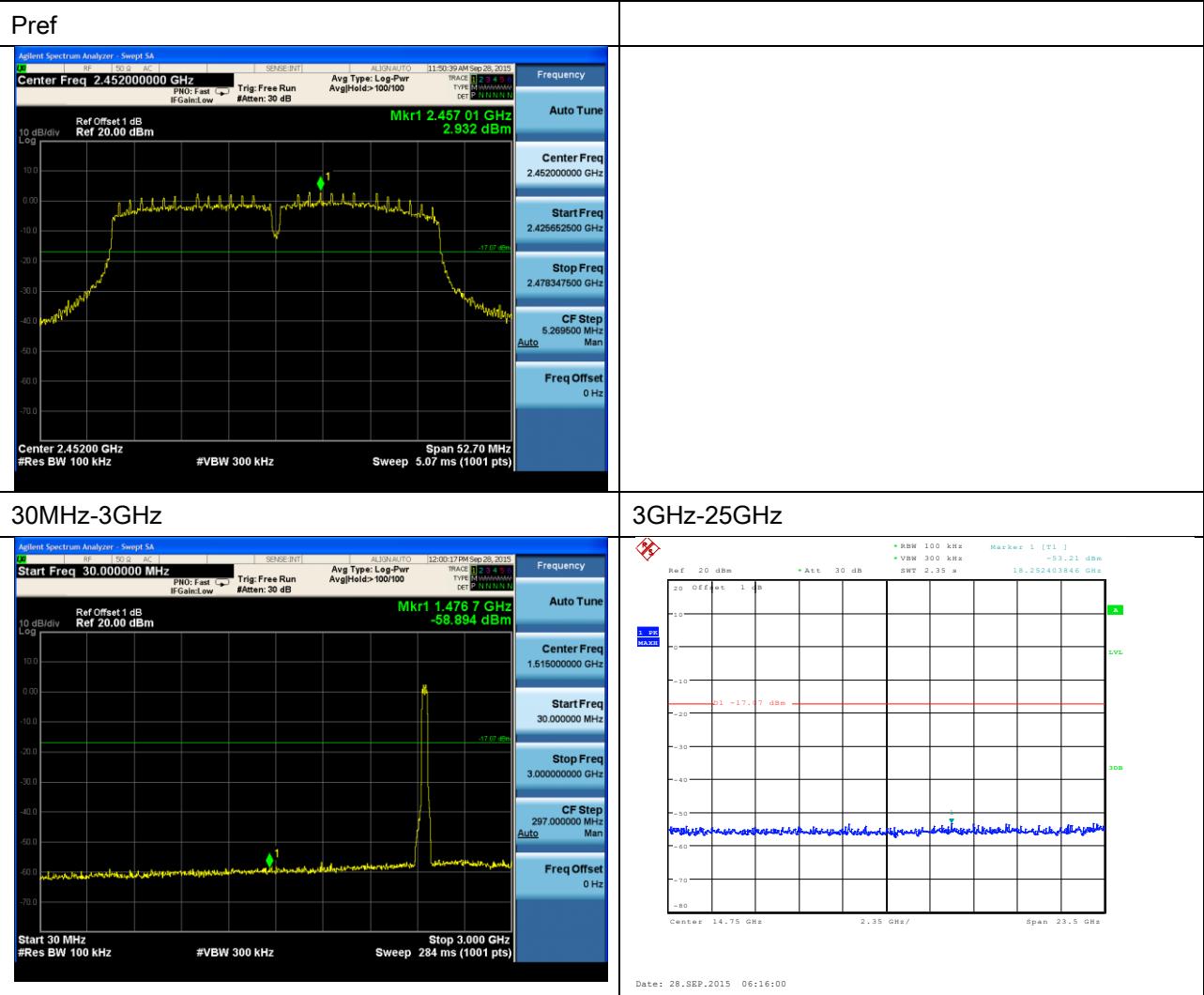


## 3GHz-25GHz





## 2452MHz





## 9.6 Band edge

### Test Method

- 1 Use the following spectrum analyzer settings:  
Span = wide enough to capture the peak level of the in-band emission and all spurious  
RBW = 100 kHz, VBW  $\geq$  RBW, Sweep = auto, Detector function = peak, Trace = max hold.
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section.

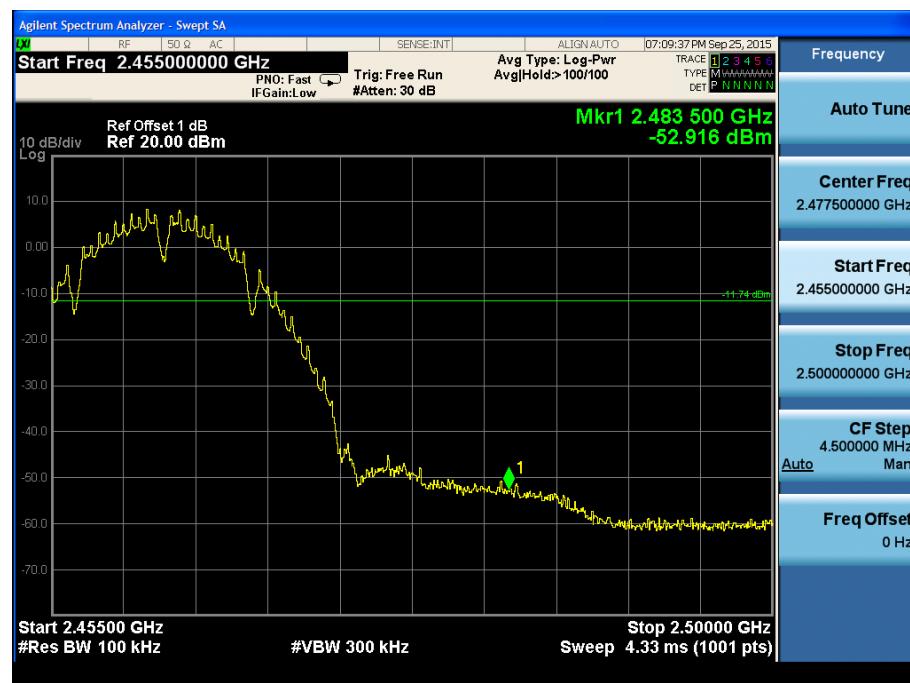
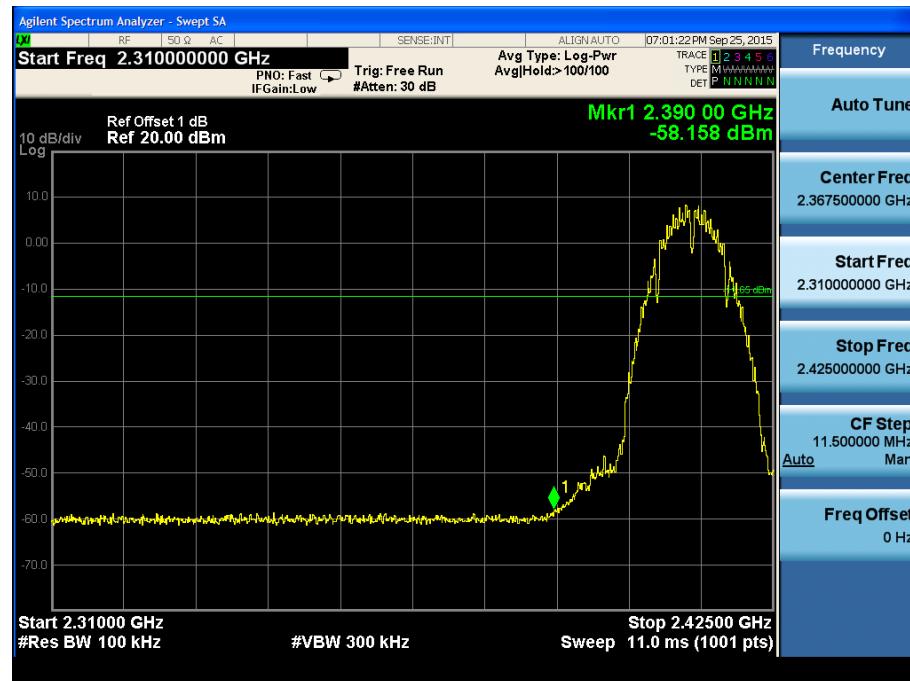
### Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

### Test result

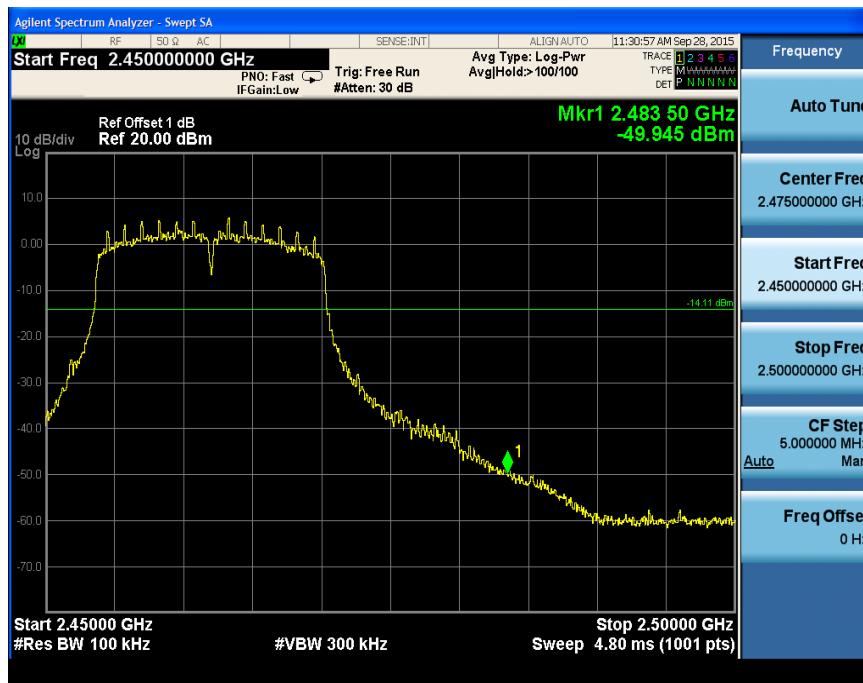
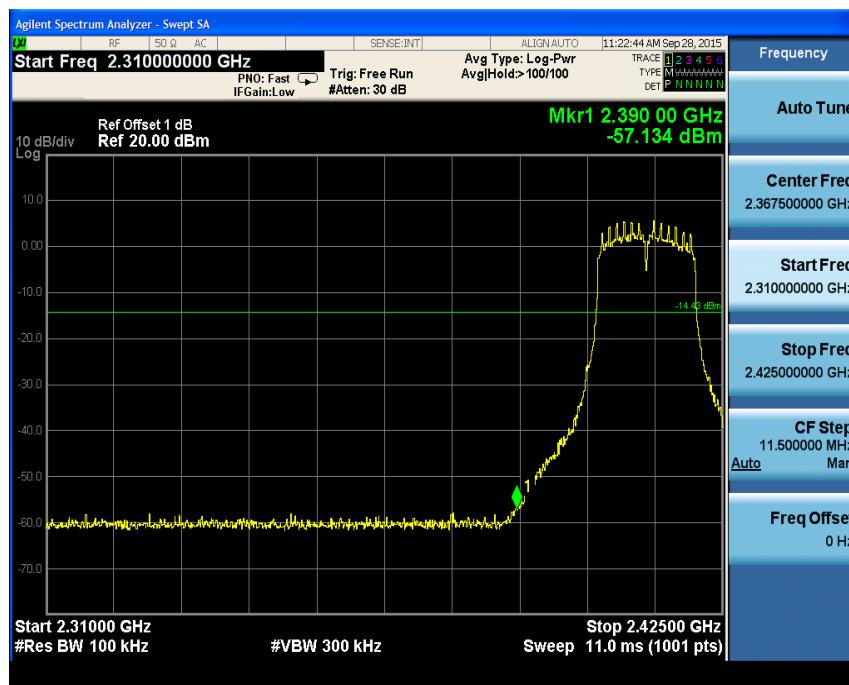


802.11 B



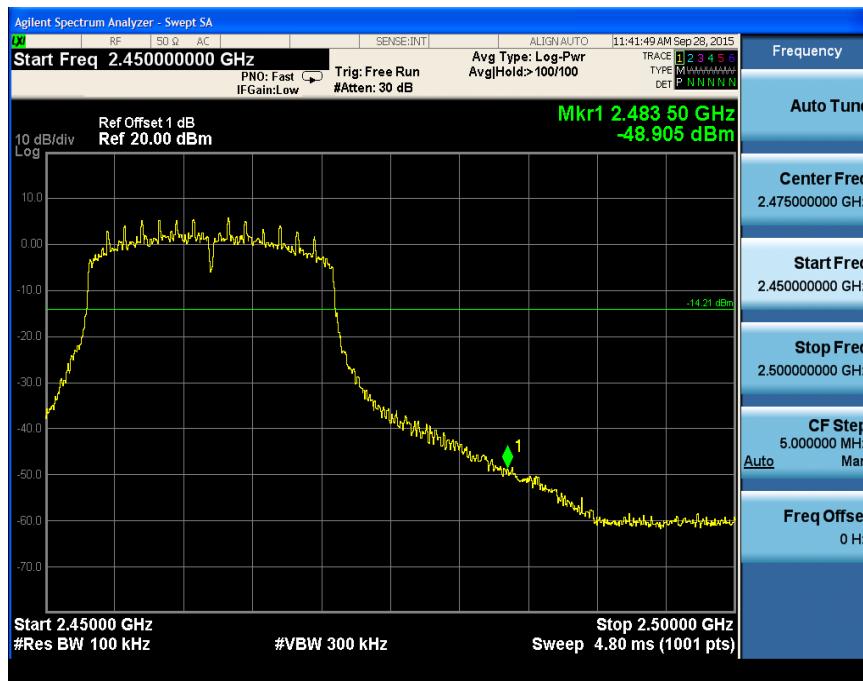
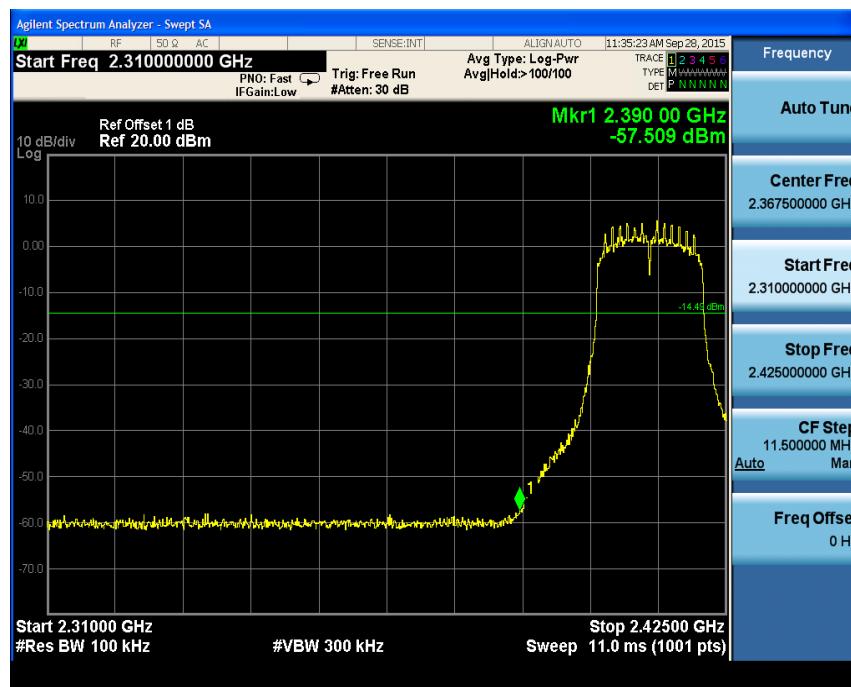


802.11 G



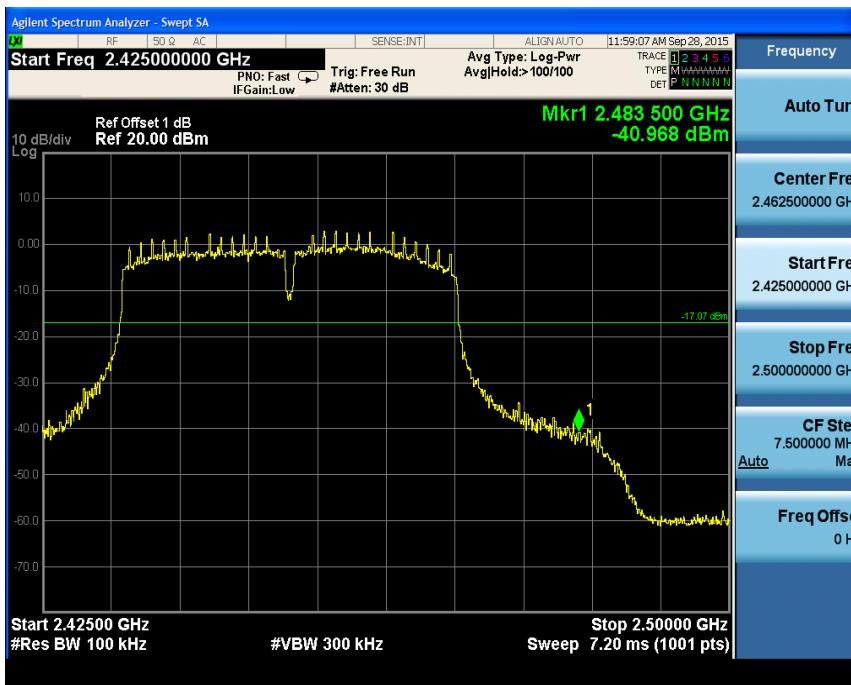
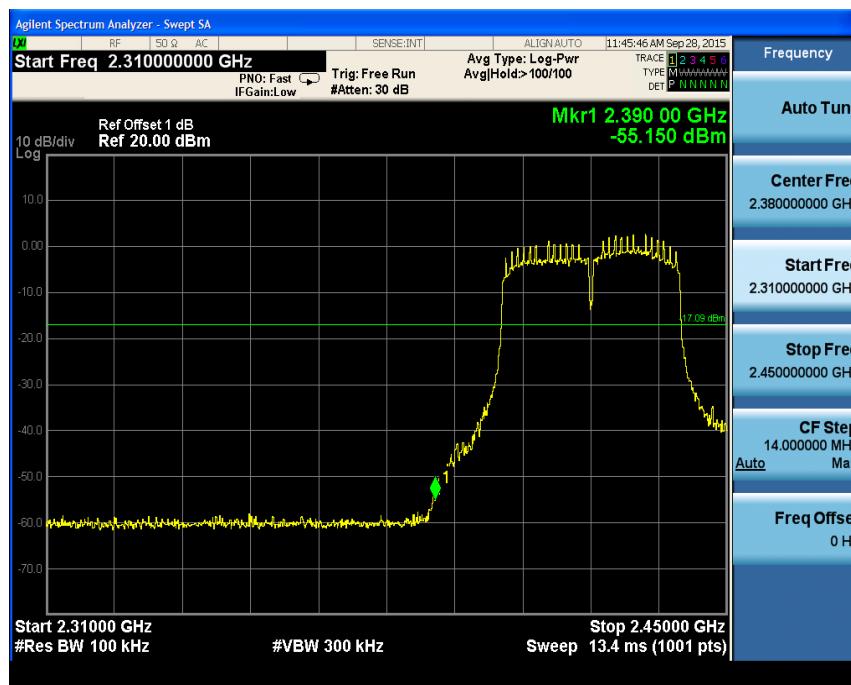


802.11 N20





802.11 N40





## 9.7 Spurious radiated emissions for transmitter

### Test Method

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
3. Use the following spectrum analyzer settings:  
Span = wide enough to fully capture the emission being measured, RBW = 1 MHz for  $f \geq 1\text{GHz}$ , 100 kHz for  $f < 1\text{ GHz}$ , VBW  $\geq$  RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Follow the guidelines in ANSI C63.4-1992 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc.  
The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. Set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the duty cycle per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a “duty cycle correction factor”, derived from  $20\log(\text{duty cycle}/100\text{ ms})$ , in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

### Limit

According to part 15.247(d), the radio emission outside the operating frequency band 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. Radiated emissions which fall in the restricted bands, as defined in section 15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field Strength uV/m	Field Strength dB $\mu$ V/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK



## Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

### Transmitting spurious emission test result as below:

9KHz-30MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

Radiated Emission Test Data 9k Hz-30MHz

Frequency MHz	Cable Loss(dB)	Antenna Factor(dB)	Readings(dB $\mu$ V/m)	Level(dB $\mu$ V/m)	Polarity(H/V)	Turntable Angle(deg)	Antenna Height(m)	Limits(dB $\mu$ V/m)	Margin(dB)
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--

30MHz-1GHz

Worst case is shown below for 30MHz-1GHz only.

The emissions don't show in following result tables are more than 20dB below the limits.

Radiated Emission Test Data 30MHz-1GHz

Frequency MHz	Cable Loss(dB)	Antenna Factor(dB)	Readings(dB $\mu$ V/m)	Level(dB $\mu$ V/m)	Polarity (H/V)	Turntable Angle(deg)	Antenna Height(m)	Limits(dB $\mu$ V/m)	Margin(dB)
74.709	1.0	8.7	12.4	22.1	V	17	2.0	40.0	17.9
179.679	1.6	9.0	13.0	23.6	V	351	2.0	43.5	19.9
187.454	1.5	9.7	13.6	24.8	V	23	2.0	43.5	18.7
201.062	1.6	10.6	11.7	23.9	V	345	2.0	43.5	19.6
251.603	1.9	12.1	10.5	24.5	V	50	2.0	46.0	21.5
290.48	2.0	12.7	10.7	25.4	V	294	2.0	46.0	20.6
31.943	0.6	12.3	16.9	29.8	H	45	3.0	40.0	10.2
37.775	0.7	12.3	18.1	31.1	H	336	2.0	40.0	8.9
72.765	1.0	8.7	13.9	23.6	H	16	2.0	40.0	16.4
78.597	1.0	7.8	15.6	24.4	H	249	2.0	40.0	15.6
154.408	1.4	8.3	20.4	30.1	H	71	1.0	43.5	13.4
171.903	1.5	9.0	17.2	27.7	H	341	1.0	43.5	15.8



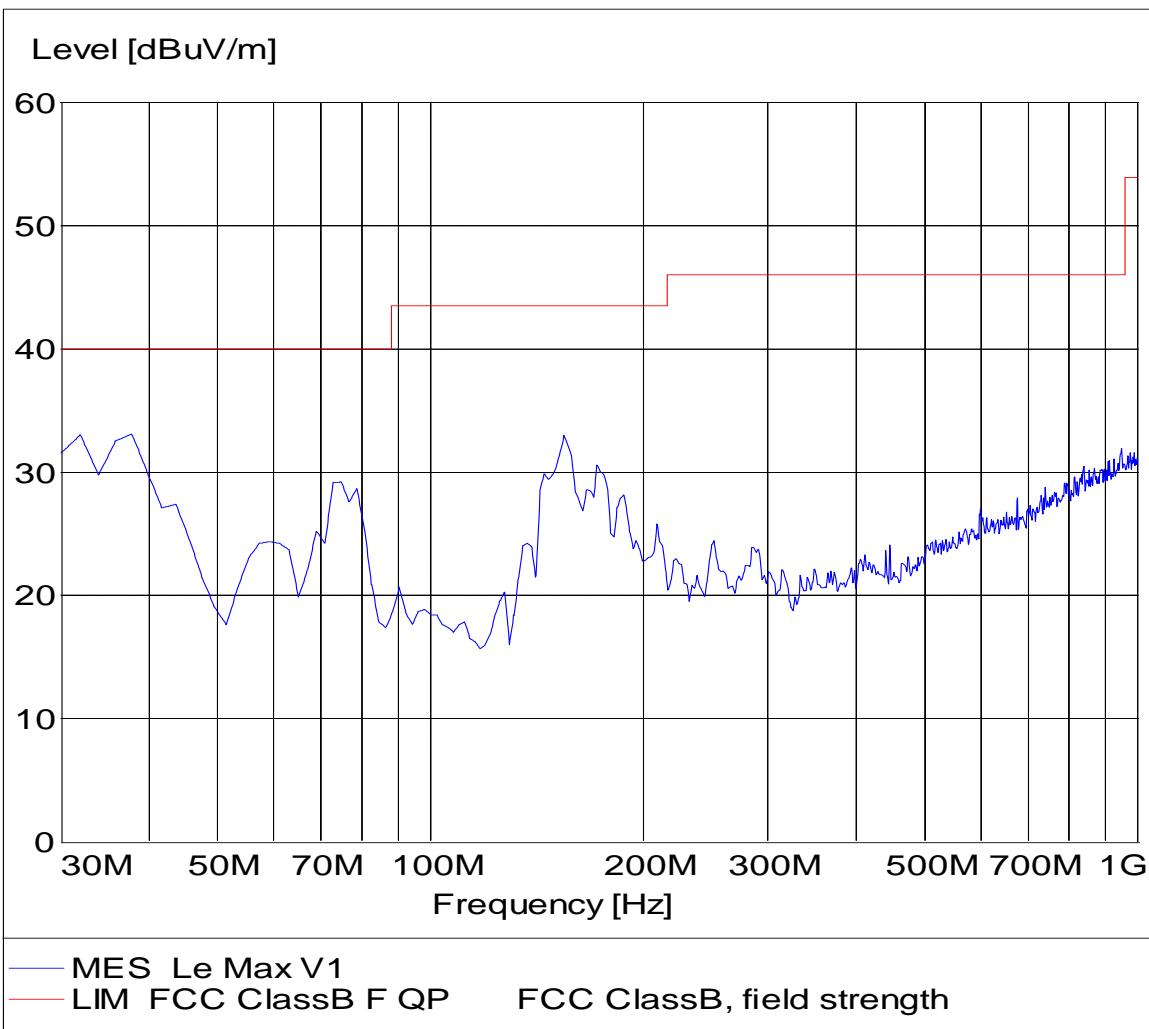
# Radiated Emission

## EUT Information

EUT Model Name: Le Max  
 Operation mode: Charging and transmitter  
 Test Voltage:  
 Comment:

## Common Information

Test Site: SMQ EMC Lab.  
 Environment Conditions:  
 Antenna Polarization: Vertical  
 Operator Name:  
 Comment:





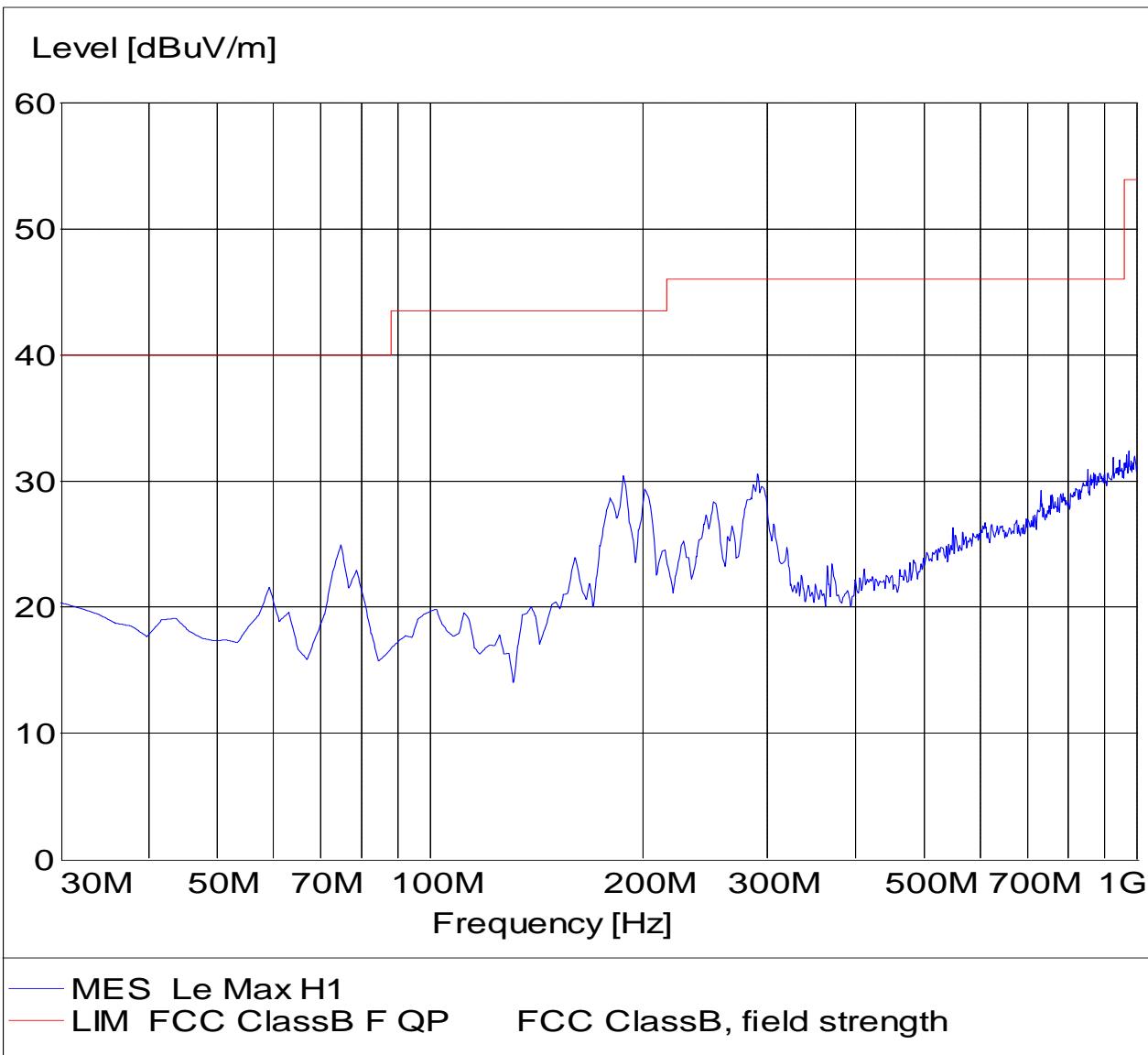
# Radiated Emission

## EUT Information

EUT Model Name: Le Max  
 Operation mode: Charging and transmitter  
 Test Voltage:  
 Comment:

## Common Information

Test Site: SMQ EMC Lab.  
 Environment Conditions:  
 Antenna Polarization: Horizontal  
 Operator Name:  
 Comment:





1-18G

11b

Ch1

## Radiated Emission

### EUT Information

EUT Model Name: Le Max  
 Operation mode: Wifi 11b CH1  
 Test Voltage:  
 Comment:

### Common Information

Test Site: SMQ EMC Lab.  
 Environment Conditions:  
 Antenna Polarization: Horizontal  
 Operator Name:  
 Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz

