



REPORT No.: SZ15050187W03

FCC RF TEST REPORT

APPLICANT : ZTE Corporation
PRODUCT NAME : Mobile Broadband Internet Device
MODEL NAME : ZTE K85
TRADE NAME : ZTE
BRAND NAME : ZTE
FCC ID : SRQ-K85
STANDARD(S) : 47 CFR Part 15 Subpart C
ISSUE DATE : 2015-7-27



SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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Change History		
Issue	Date	Reason for change
1.0	2015-7-27	First edition



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TEST REPORT DECLARATION

Applicant	ZTE Corporation
Applicant Address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R.China
Manufacturer	ZTE Corporation
Manufacturer Address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R.China
Product Name	Mobile Broadband Internet Device
Model Name	ZTE K85
Brand Name	ZTE
HW Version	K85MB_D
SW Version	K85_Bell_V1.05
Test Standards	47 CFR Part 15 Subpart C
Test Date	2015-6-2 to 2015-6-15
Test Result	PASS

Tested by : Zou Jian
Zou Jian(Test Engineer)

Reviewed by : Qiu Xiaojun
Qiu Xiaojun(RF Manager)

Approved by : Zeng Dexin
Zeng Dexin(Chief Engineer)



1. TECHNICAL INFORMATION

Note: Provide by applicant.

1.1 Applicant Information

Company:	ZTE Corporation
Address:	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R.China

1.2 Equipment under Test (EUT) Description

Brand Name:	ZTE
Trade Name:	ZTE
Model Name:	ZTE K85
Frequency Range:	802.11b/g/n-20MHz: 2.412GHz - 2.462GHz 802.11n-40MHz: 2.422GHz - 2.452GHz
Channel Number:	802.11b/g/n-20MHz: 11 802.11n-40MHz: 7
Modulation Type:	DSSS, OFDM
Antenna Type:	PFIA Antenna
Antenna Gain:	-4dBi

NOTE:

The EUT is a Mobile Broadband Internet Device, it contains WIFI Module operating at 2.4GHz ISM; it supports 802.11b, 802.11g, 802.11n and they are all tested in this report.

For 802.11b/g/n-20MHz (2.4GHz band), the frequencies allocated is $F \text{ (MHz)} = 2412 + 5 \times (n-1)$ ($1 \leq n \leq 11$). The lowest, middle, highest channel numbers of the EUT used and tested in this report are separately 1 (2412MHz), 6 (2437MHz) and 11 (2462MHz).

For 802.11n-40MHz, the frequencies allocated is $F \text{ (MHz)} = 2412 + 5 \times (n-1)$ ($3 \leq n \leq 9$). The lowest, middle, highest channel numbers of the EUT used and tested in this report are separately 3 (2422MHz), 6 (2437MHz) and 9 (2452MHz).

For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

The antenna connector of EUT is designed with permanent attachment and no consideration of replacement.



1.2.1 Identification of all used EUTs

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity	Hardware Version	Software Version
A01	K85MB_D	K85_Bell_V1.05

1.3 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C (Bluetooth, 2.4GHz ISM band radiators) for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15 (10-1-13 Edition)	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Result
1	15.203	Antenna Requirement	<u>PASS</u>
2	15.247(b)	Peak Output Power	<u>PASS</u>
3	15.247(a)	Bandwidth	<u>PASS</u>
4	15.247(d)	Conducted Spurious Emission and Band Edge	<u>PASS</u>
5	15.247(d)	Restricted Frequency Bands	<u>PASS</u>
6	15.207	Conducted Emission	<u>PASS</u>
7	15.209 ,15.247(d)	Radiated Emission	<u>PASS</u>
8	15.247(e)	Power spectral density (PSD)	<u>PASS</u>
9	15.247(i), 1.1307&2.1093	RF exposure evaluation	<u>PASS</u>

The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.4 2009.

These RF tests were performed according to the method of measurements prescribed in KDB558074 D01 v03r02 (05/06/2014).

1.3.1 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106



2. 47 CFR PART 15C REQUIREMENTS

2.1 Antenna requirement

2.1.1 Applicable Standard

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

2.1.2 Result: Compliant

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

2.2 Peak Output Power

2.2.1 Requirement

According to FCC section 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum peak conducted output power of the intentional radiator shall not exceed 1 Watt.

2.2.2 Test Description

KDB 558074 Section 9.1.3 was used in order to prove compliance.

The measured output power was calculated by the reading of the Power Meter and calibration.

A. Test Setup:



The EUT (Equipment under the test) which is coupled to the Power Meter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading, all test result in power meter.

**B. Equipments List:**

Please reference ANNEX A(1.4).

2.2.3 Test Result

The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

2.2.3.1 802.11b Test Mode

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	19.35	0.086099	30	1	PASS
6	2437	18.71	0.074302			PASS
11	2462	18.81	0.076033			PASS

2.2.3.2 802.11g Test mode

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	21.28	0.134276	30	1	PASS
6	2437	21.23	0.132739			PASS
11	2462	20.86	0.121899			PASS

2.2.3.3 802.11n-20MHz Test mode

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	20.78	0.119674	30	1	PASS
6	2437	20.12	0.102802			PASS
11	2462	20.03	0.100693			PASS

2.2.3.4 802.11n-40MHz Test mode

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
3	2422	19.73	0.093972	30	1	PASS
6	2437	19.67	0.092683			PASS
9	2452	19.80	0.095499			PASS

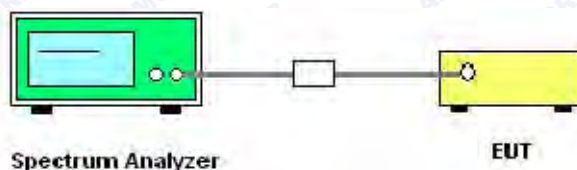
2.3 Bandwidth

2.3.1 Requirement

According to FCC section 15.247(a) (2), Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

2.3.2 Test Description

A. Test Set:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

KDB 558074 Section 8.1 Option 1 was used in order to prove compliance.

B. Equipments List:

Please reference ANNEX A(1.4).

2.3.3 Test Result

The lowest, middle and highest channels are selected to perform testing to record the 6 dB bandwidth of the Module.



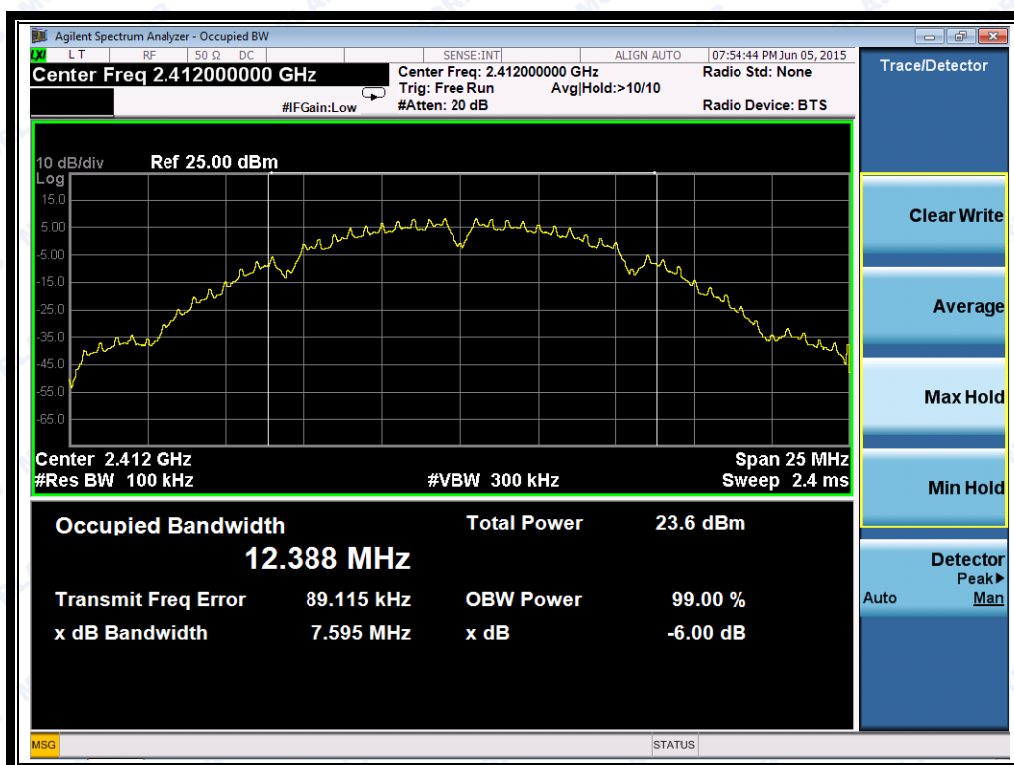
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2.3.3.1 802.11b Test mode

A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits(kHz)	Result
1	2412	7.595	≥500	PASS
6	2437	7.147	≥500	PASS
11	2462	7.574	≥500	PASS

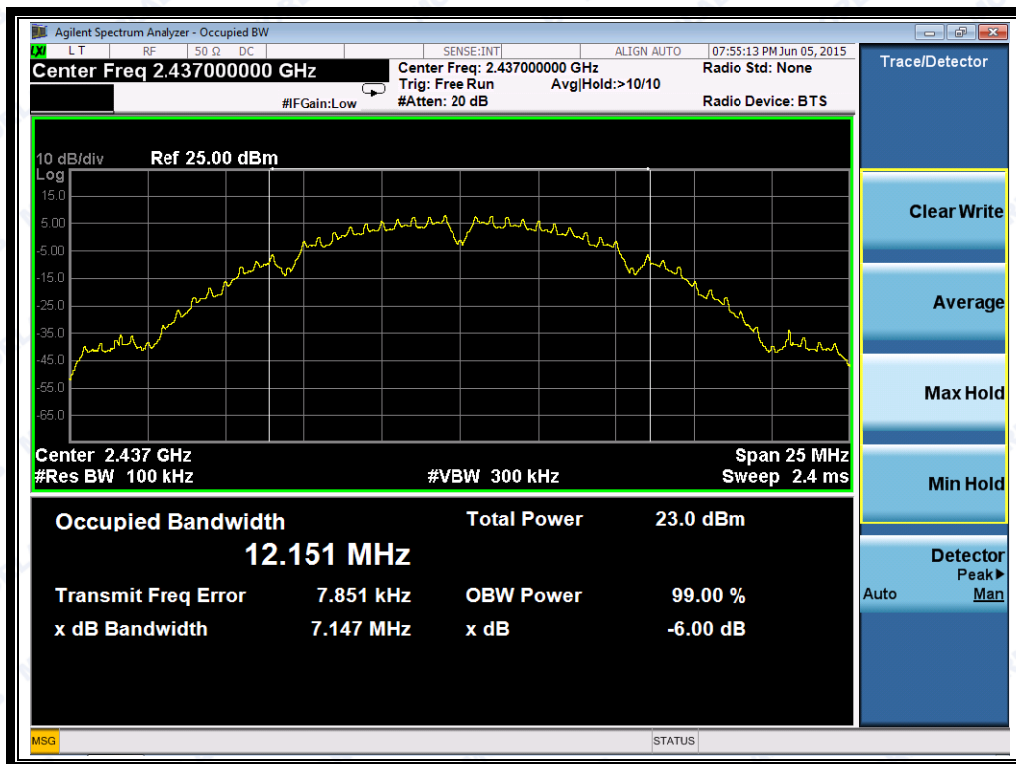
B. Test Plots



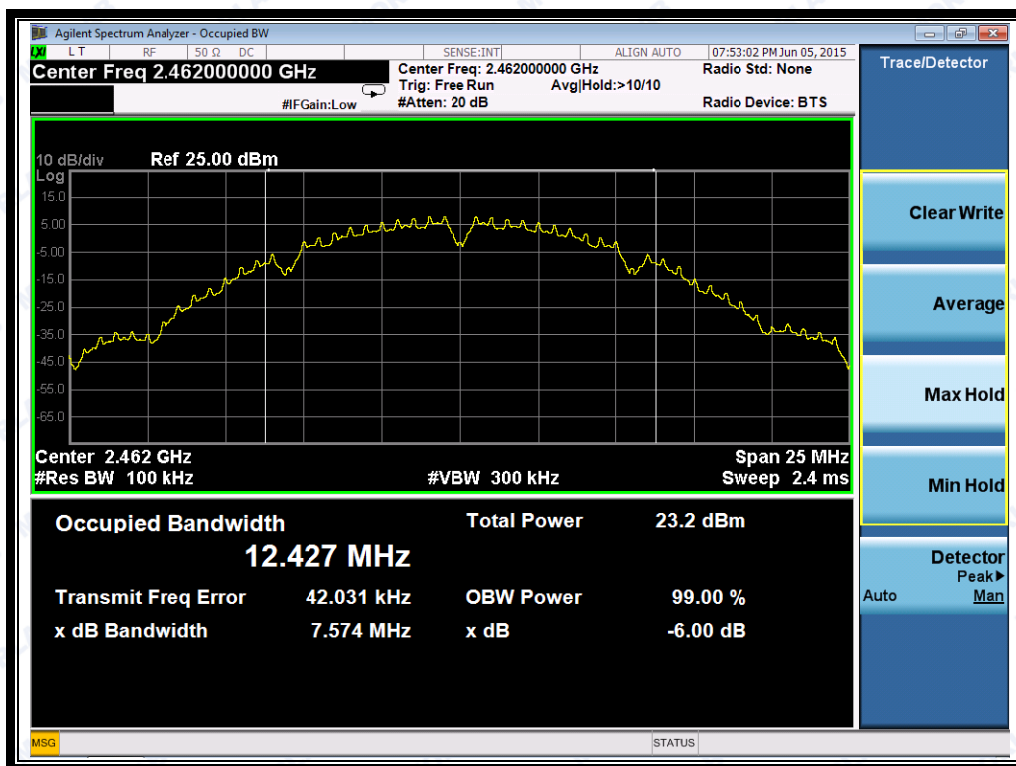
(Channel 1: 2412MHz @ 802.11b)



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(Channel 6: 2437 MHz @ 802.11b)



(Channel 11: 2462MHz @ 802.11b)



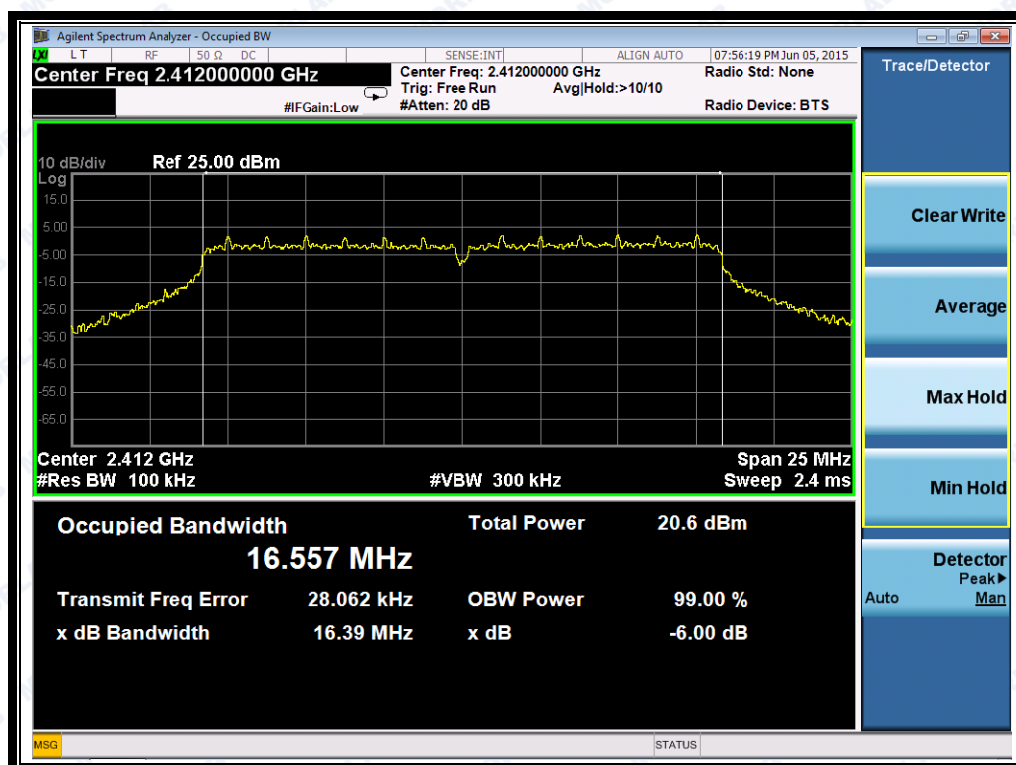
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2.3.3.2 802.11g Test mode

A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	16.39	≥500	PASS
6	2437	16.42	≥500	PASS
11	2462	16.43	≥500	PASS

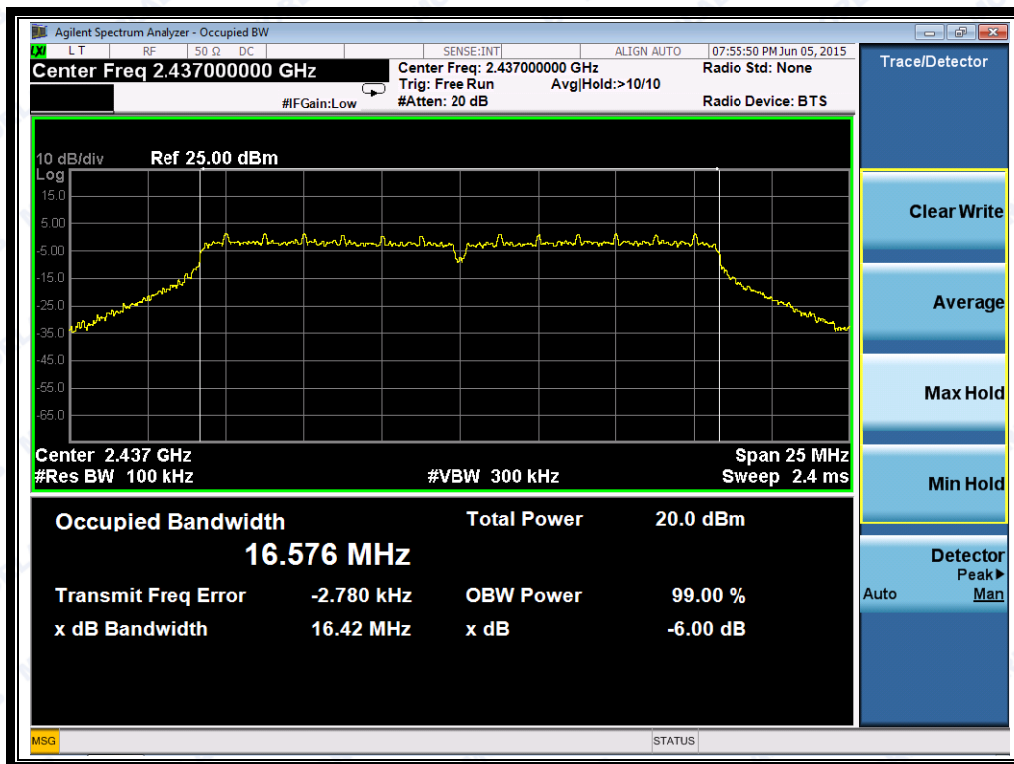
B. Test Plots:



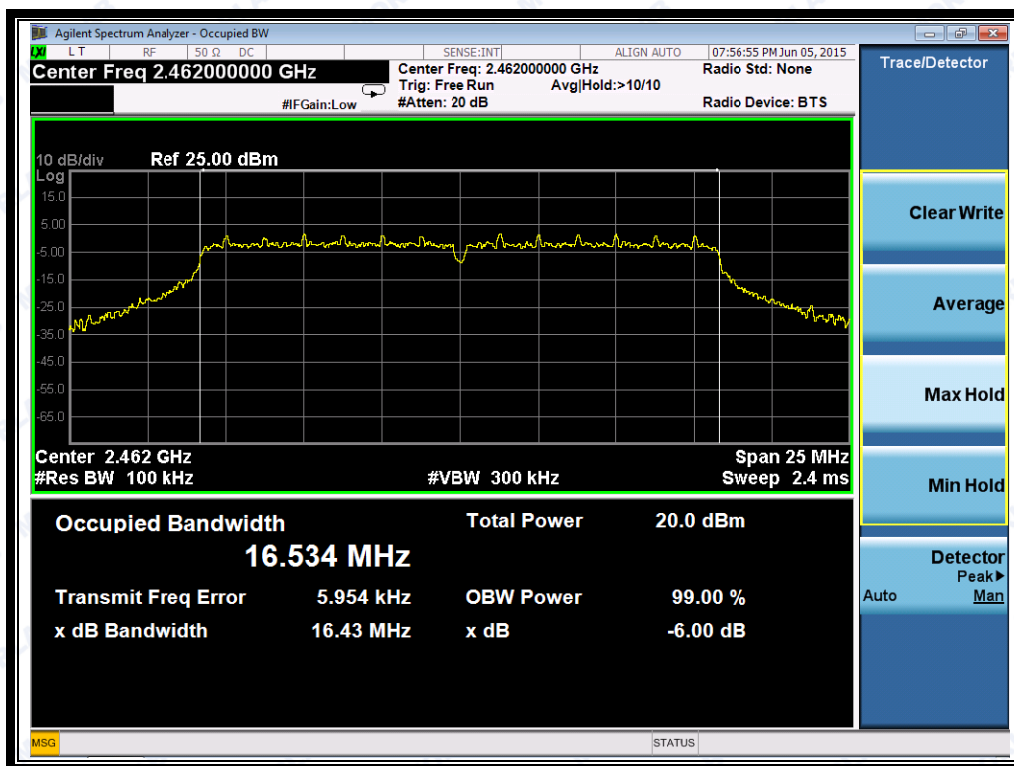
(Channel 1: 2412MHz @ 802.11g)



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(Channel 6: 2437MHz @ 802.11g)



(Channel 11: 2462MHz @ 802.11g)



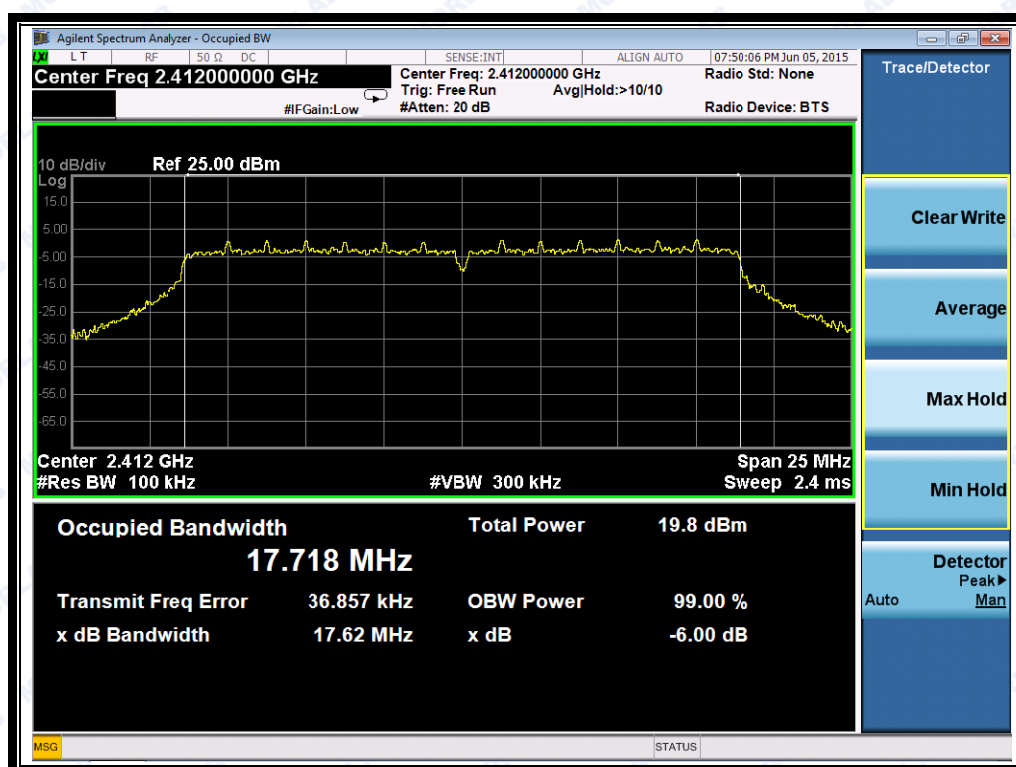
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2.3.3.3 802.11n-20 Test mode

A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	17.62	≥500	PASS
6	2437	17.63	≥500	PASS
11	2462	17.61	≥500	PASS

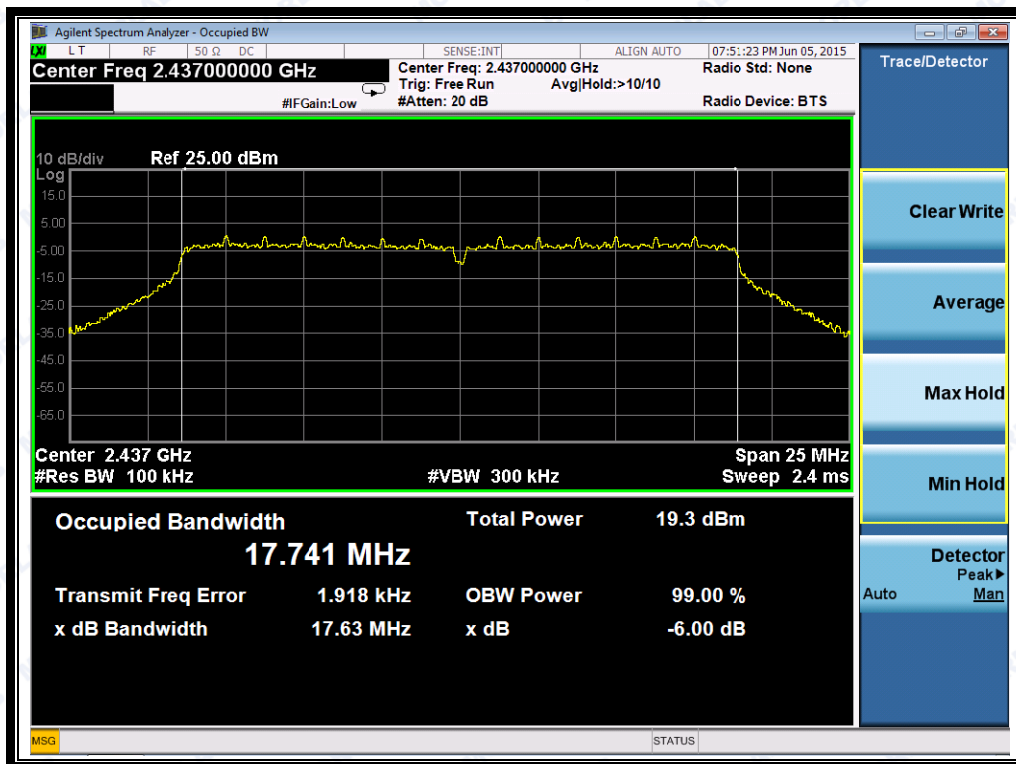
B. Test Plots:



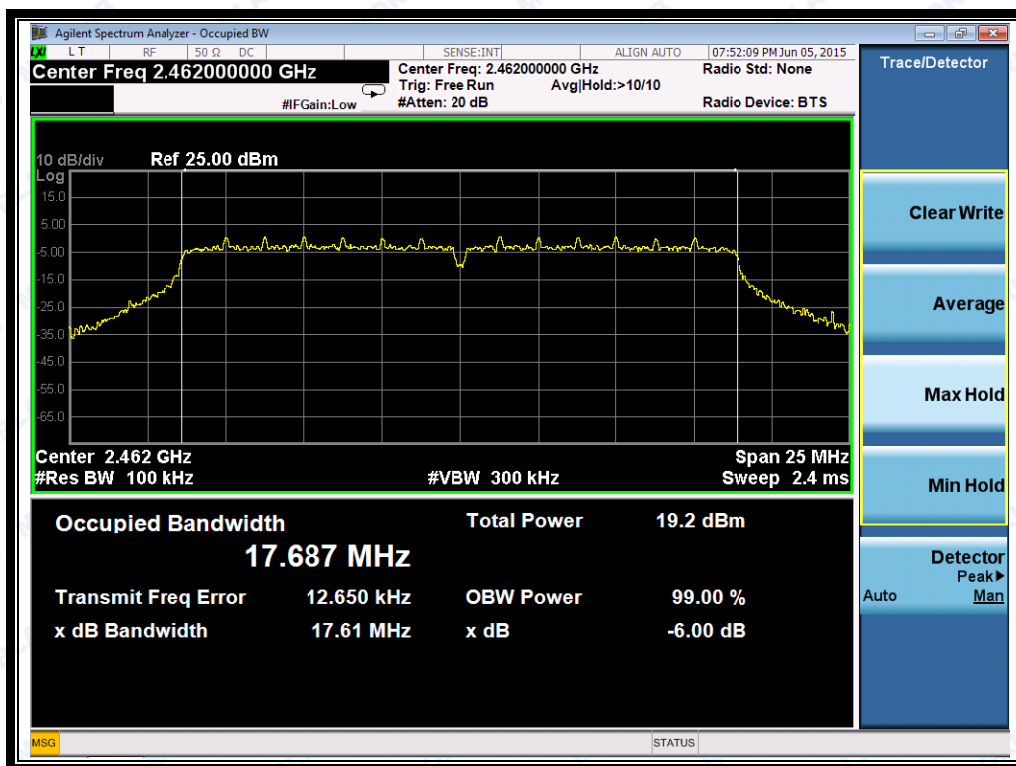
(Channel 1: 2412MHz @ 802.11n-20)



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(Channel 6: 2437MHz @ 802.11n-20)



(Channel 11: 2462MHz @ 802.11n-20)



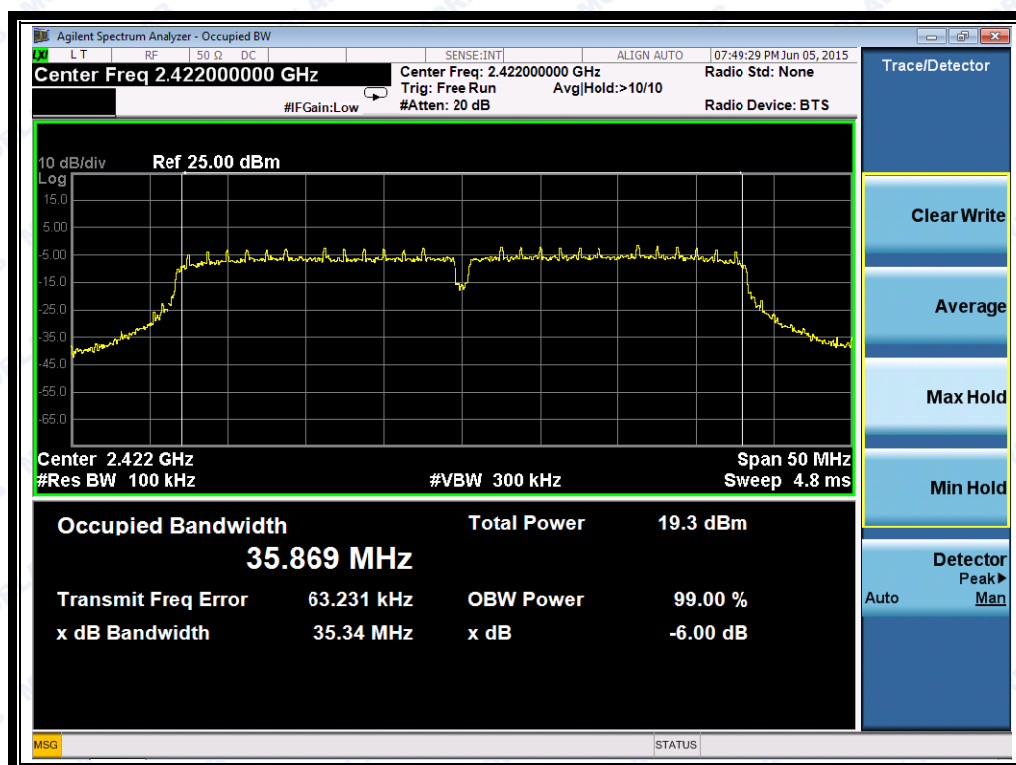
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2.3.3.4 802.11n-40 Test mode

A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
3	2422	35.34	≥500	PASS
6	2437	35.49	≥500	PASS
9	2452	35.20	≥500	PASS

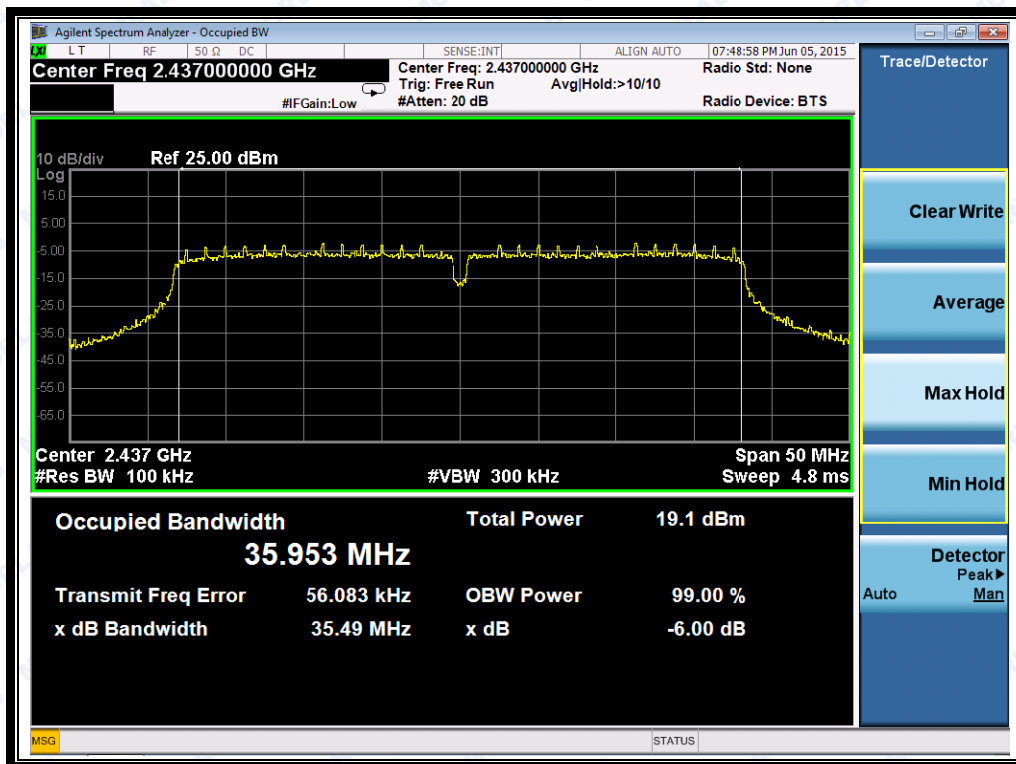
B. Test Plots:



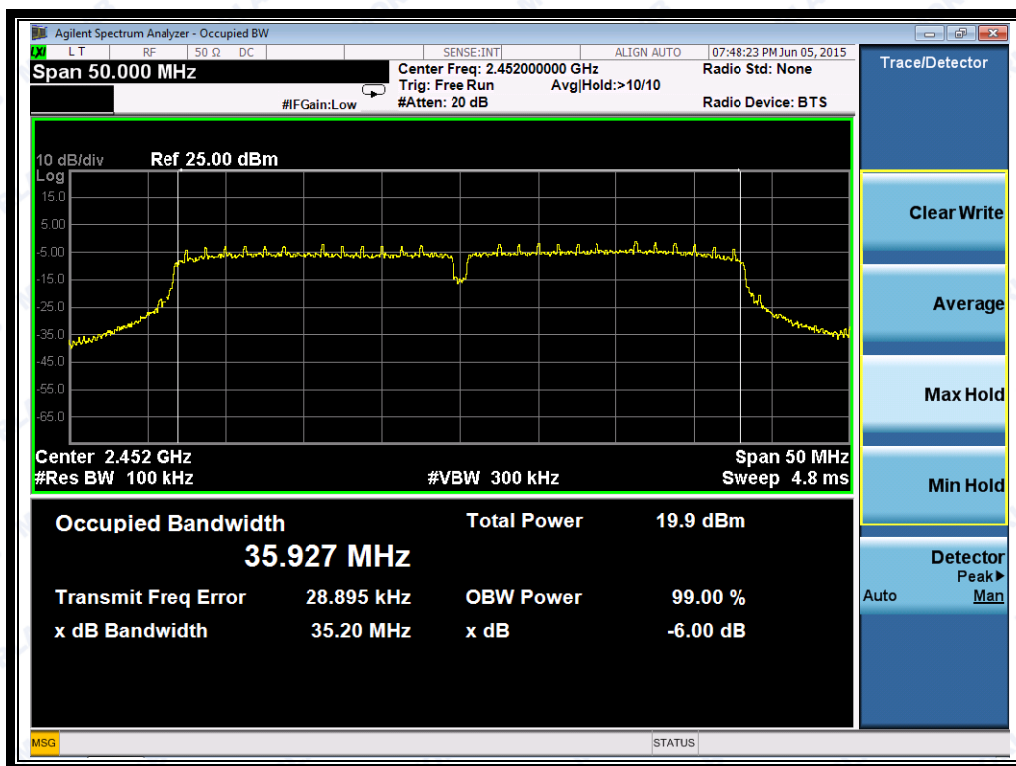
(Channel 3: 2422MHz @ 802.11n-40)



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(Channel 6: 2437MHz @ 802.11n-40)



(Channel 9: 2452MHz @ 802.11n-40)

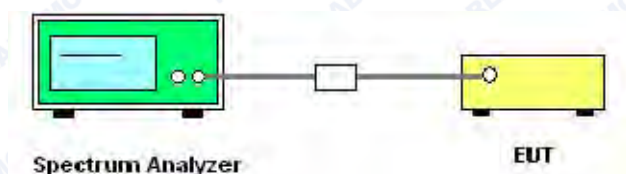
2.4 Conducted Spurious Emissions and Band Edge

2.4.1 Requirement

According to FCC section 15.247(c), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

2.4.2 Test Description

A. Test Set:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

KDB 558074 Section 11.0 was used in order to prove compliance.

B. Equipments List:

Please reference ANNEX A(1.4).

2.4.3 Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.



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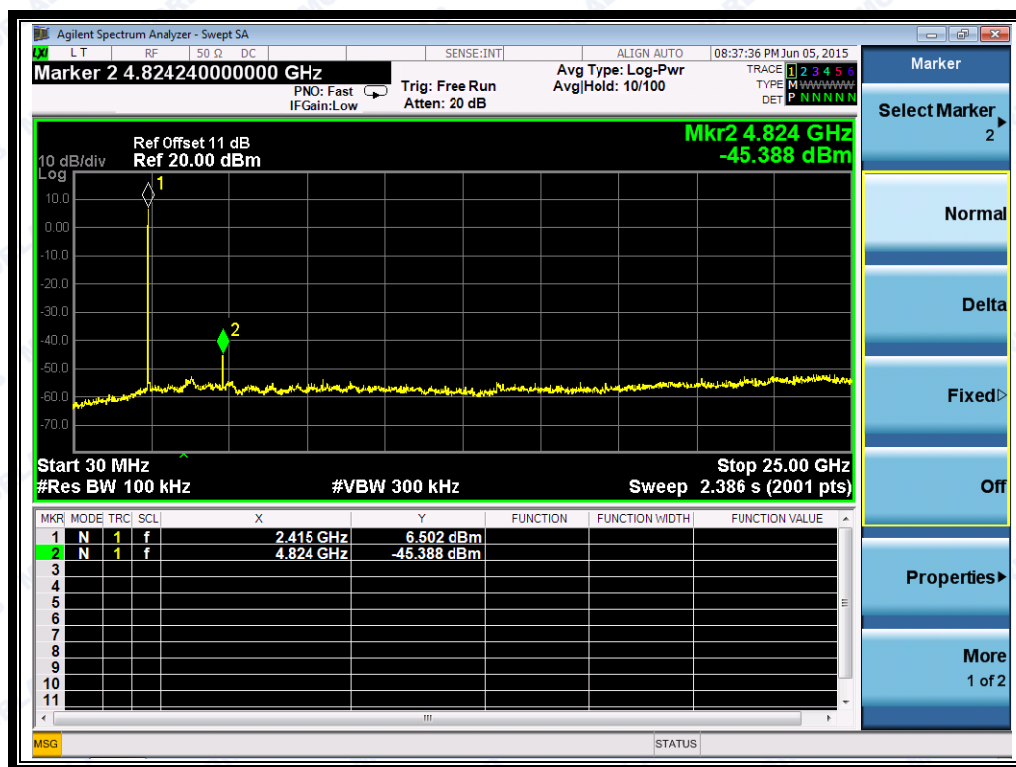
2.4.3.1 802.11b Test mode

A. Test Verdict:

Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
			Carrier Level	Calculated -20dBc Limit	
1	2412	-45.388	6.502	-13.498	PASS
6	2437	-52.001	6.248	-13.752	PASS
11	2462	-51.933	7.803	-12.197	PASS

B. Test Plots:

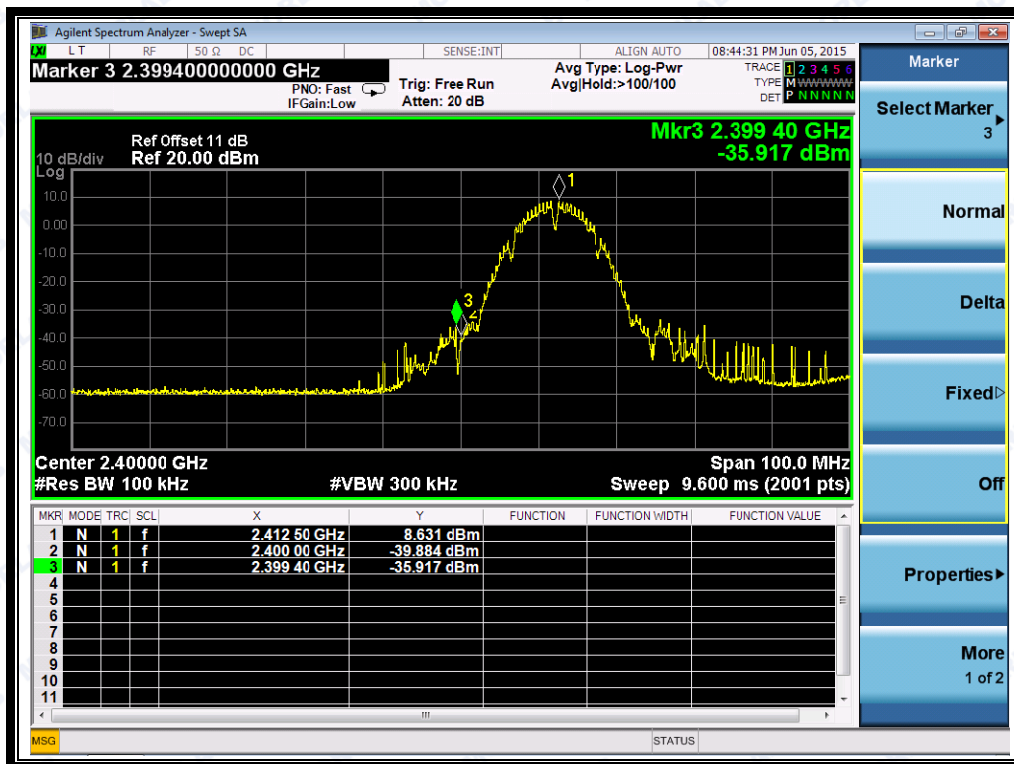
Note: the power of the Module transmitting frequency should be ignored.



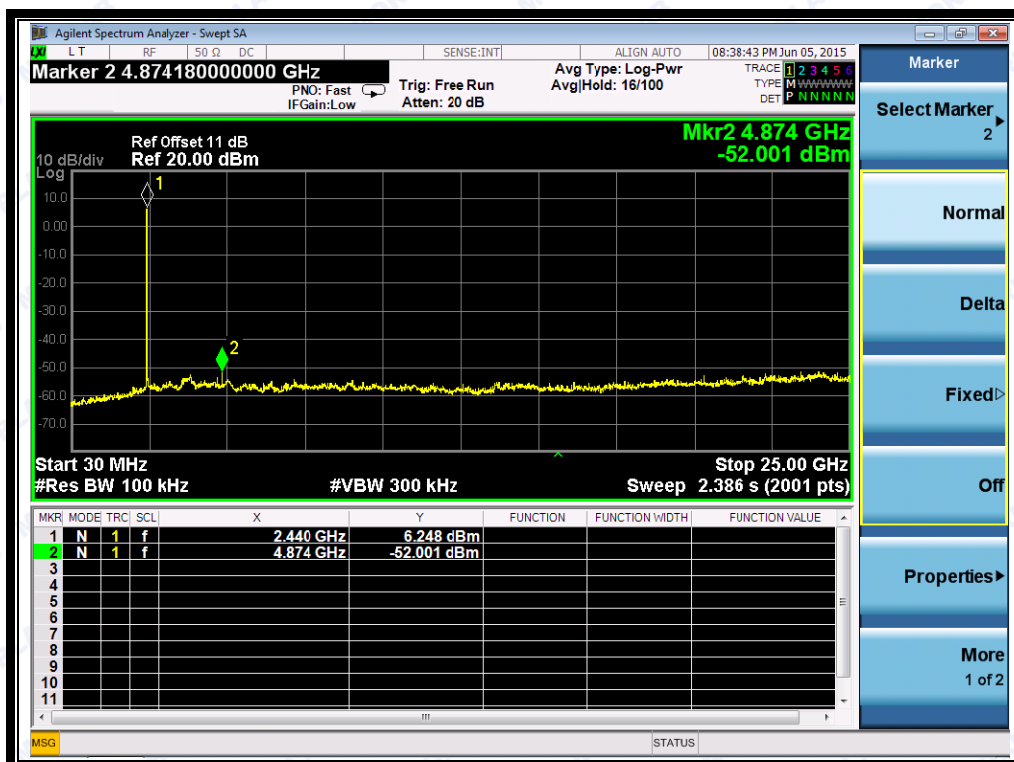
(Channel = 1, 30MHz to 25GHz)



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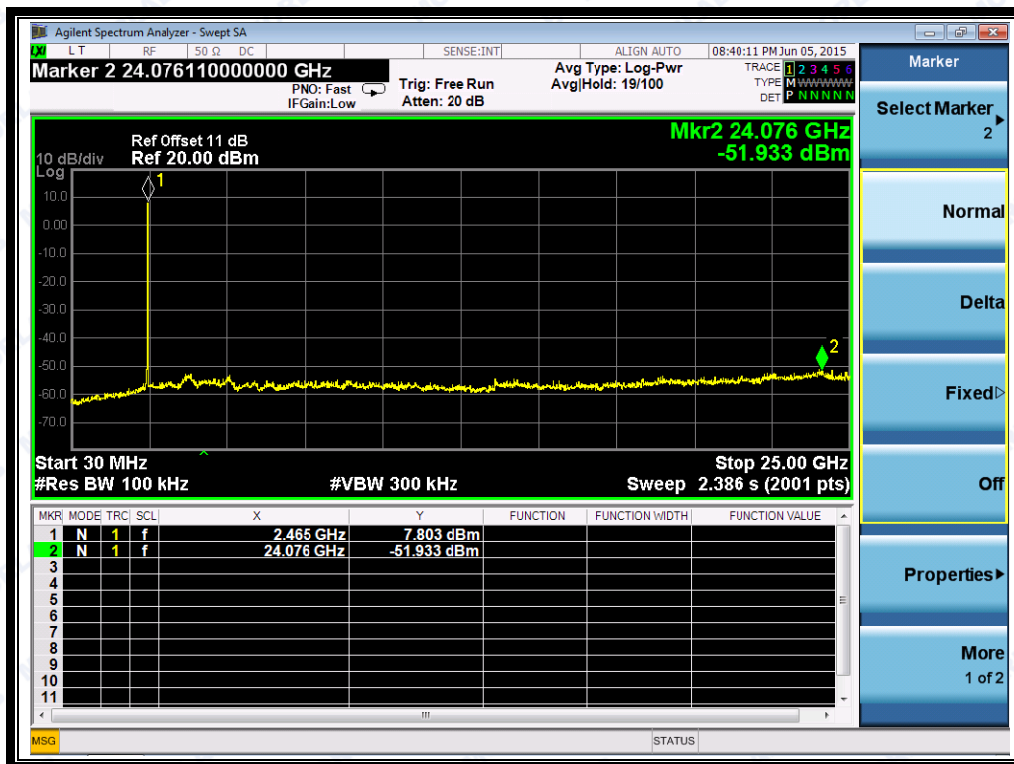
(Band Edge @ Channel = 1)



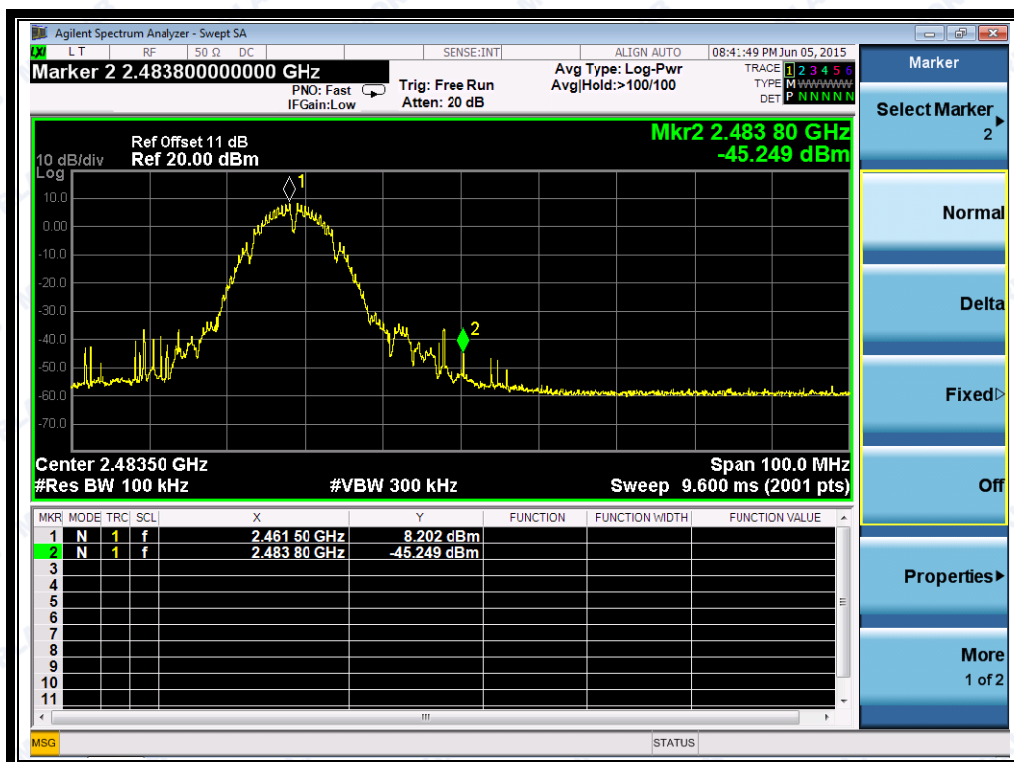
(Channel = 6, 30MHz to 25GHz)



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(Channel = 11, 30MHz to 25GHz)



(Band Edge @ Channel = 11)



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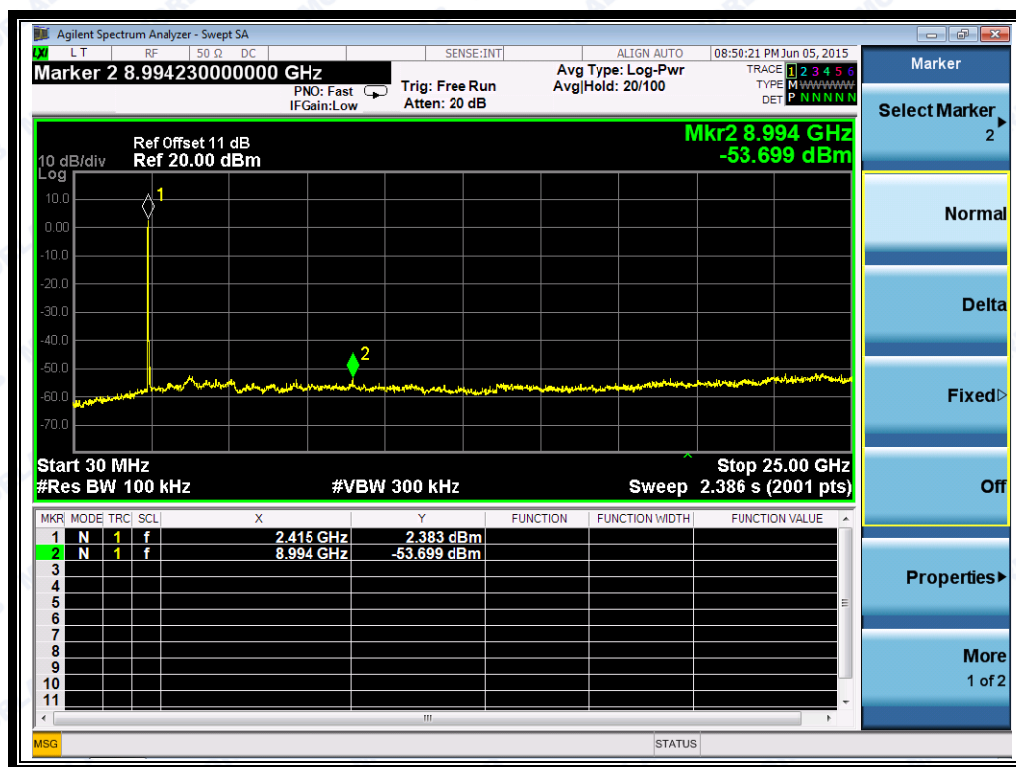
2.4.3.2 802.11g Test mode

A. Test Verdict:

Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
			Carrier Level	Calculated -20dBc Limit	
1	2412	-53.699	2.383	-17.617	PASS
6	2437	-51.682	1.184	-18.816	PASS
11	2462	-52.258	-1.382	-21.382	PASS

B. Test Plots:

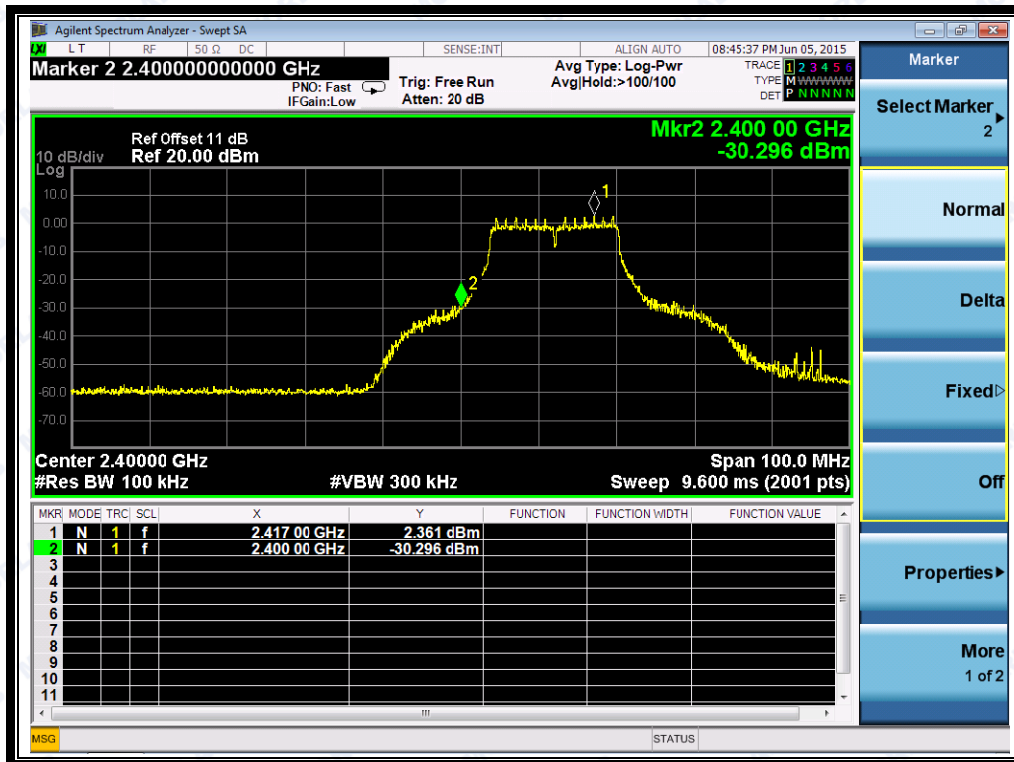
Note: the power of the Module transmitting frequency should be ignored.



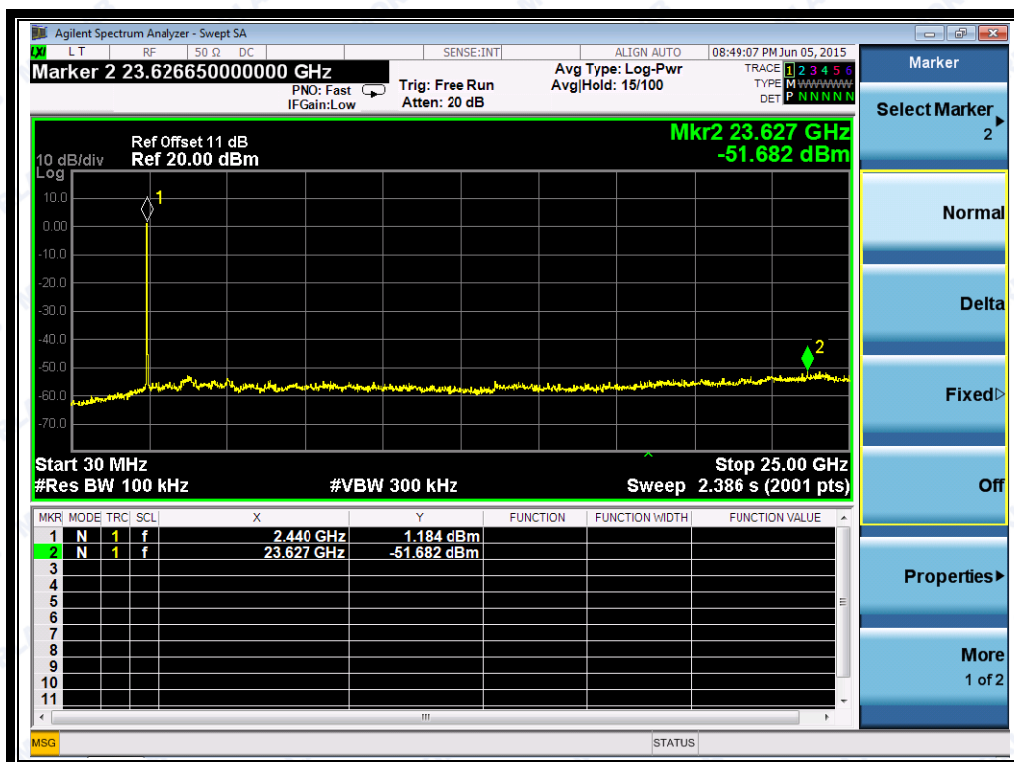
(Channel = 1, 30MHz to 25GHz)



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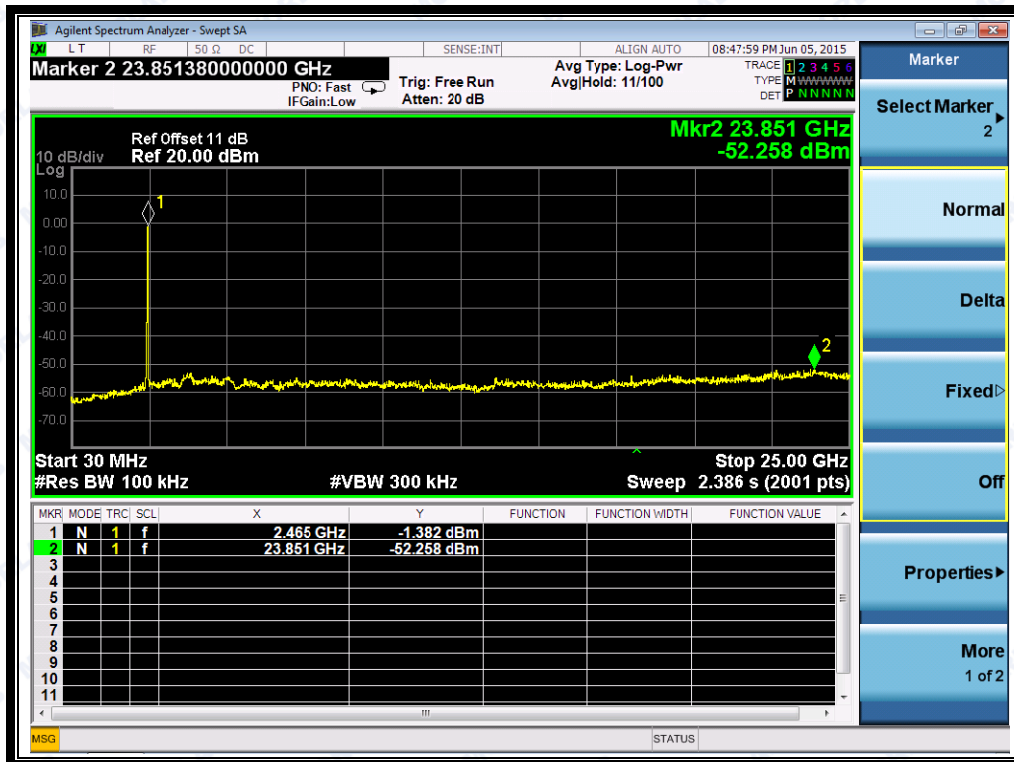
(Band Edge @ Channel = 1)



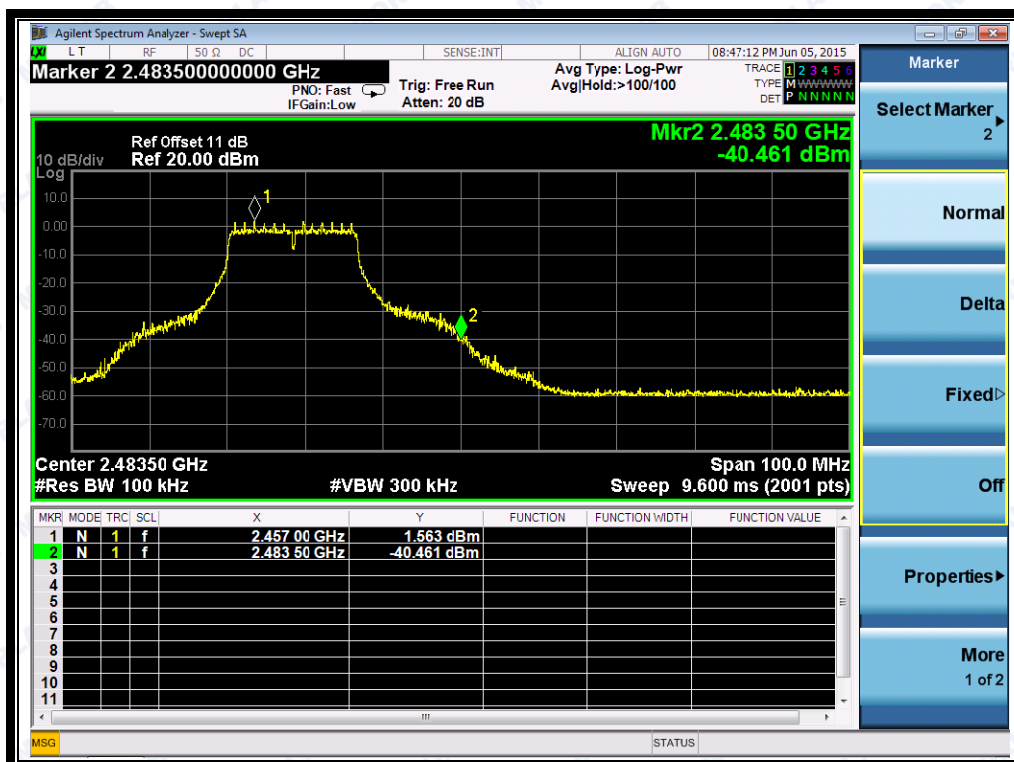
(Channel = 6, 30MHz to 25GHz)



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(Channel = 11, 30MHz to 25GHz)



(Band Edge @ Channel = 11)



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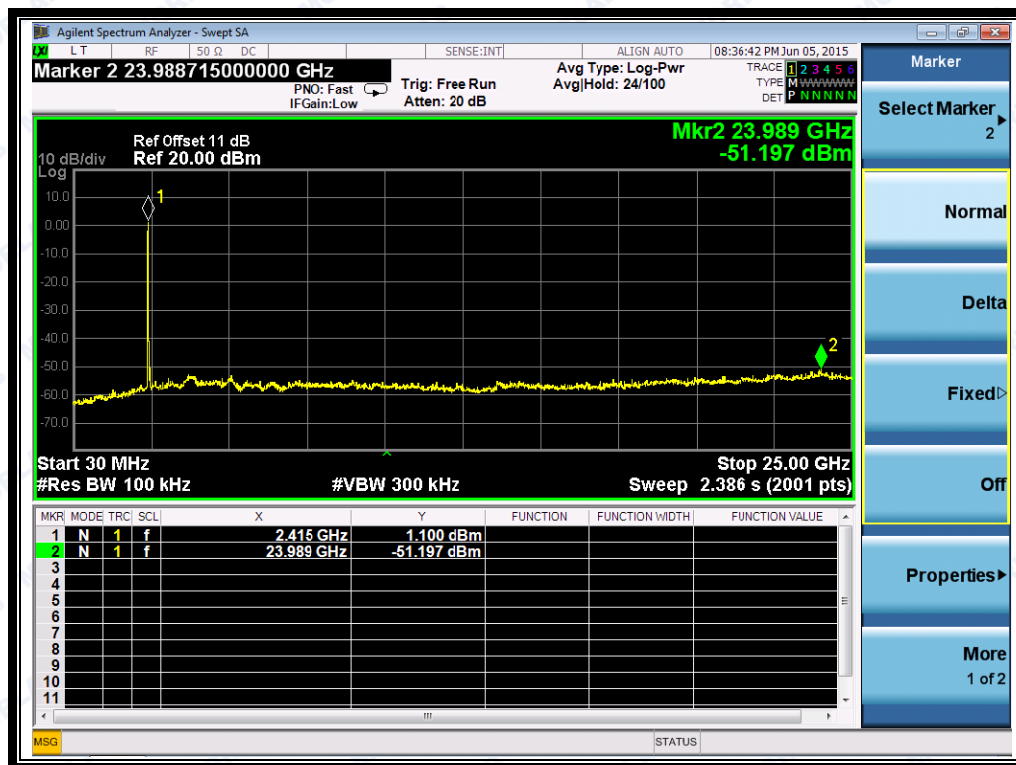
2.4.3.3 802.11n -20MHz Test mode

A. Test Verdict:

Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
			Carrier Level	Calculated -20dBc Limit	
1	2412	-51.197	1.100	-18.9	PASS
6	2437	-50.501	-2.336	-22.336	PASS
11	2462	-50.978	-0.238	-20.238	PASS

B. Test Plots:

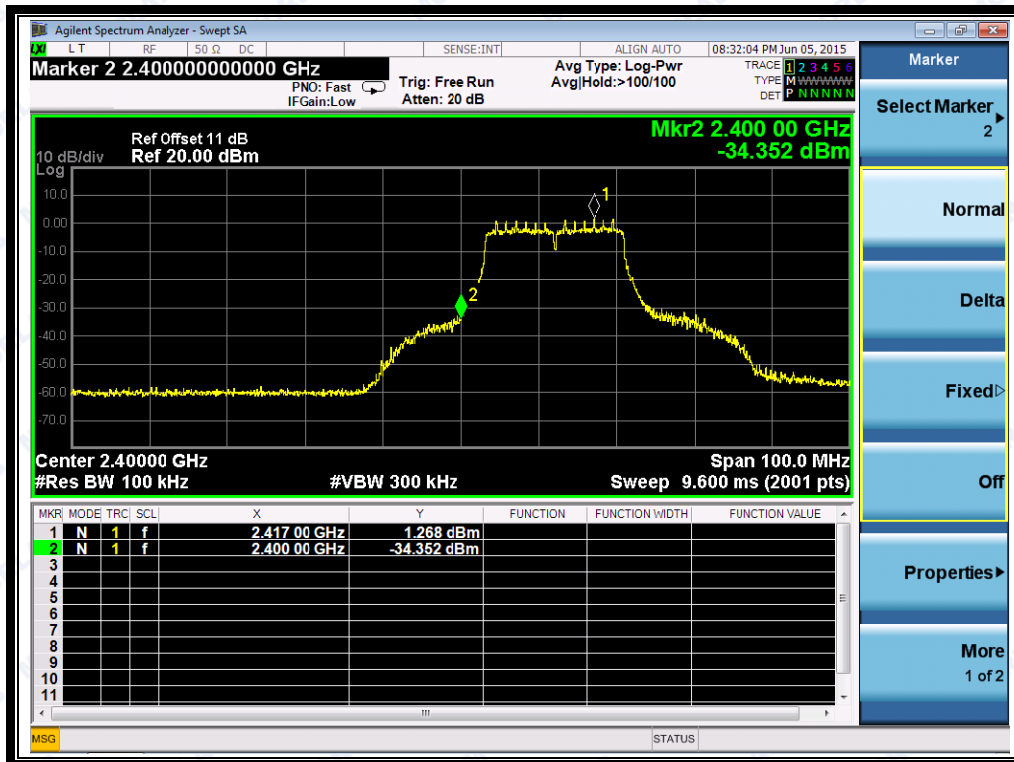
Note: the power of the Module transmitting frequency should be ignored.



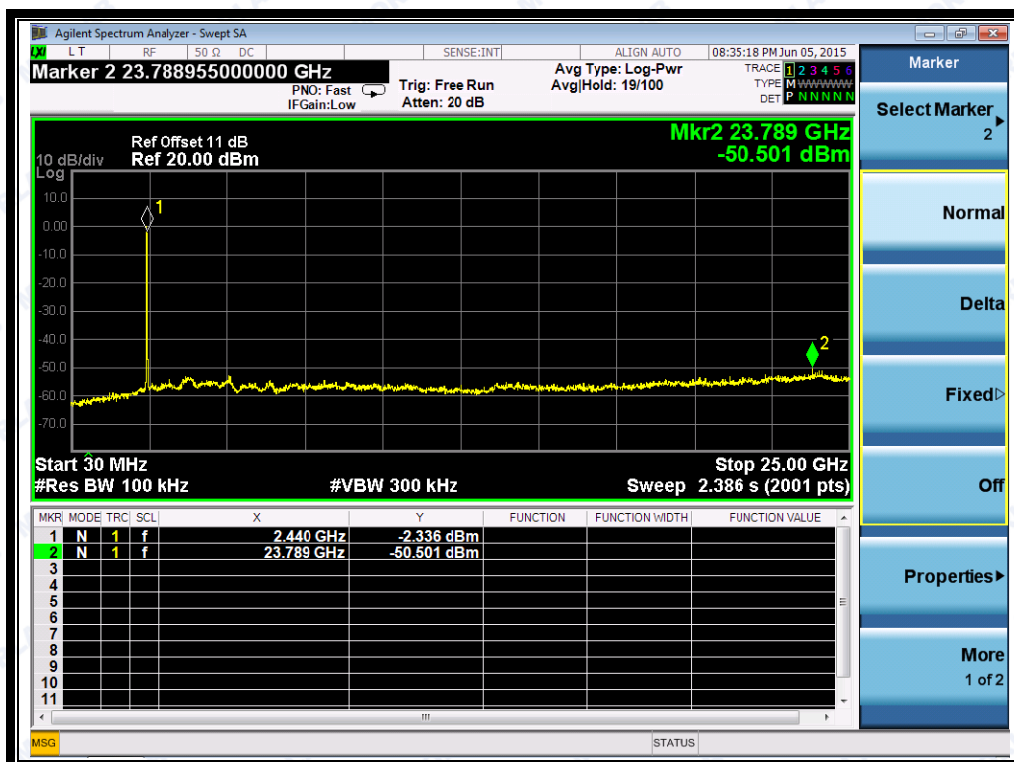
(Channel = 1, 30MHz to 25GHz)



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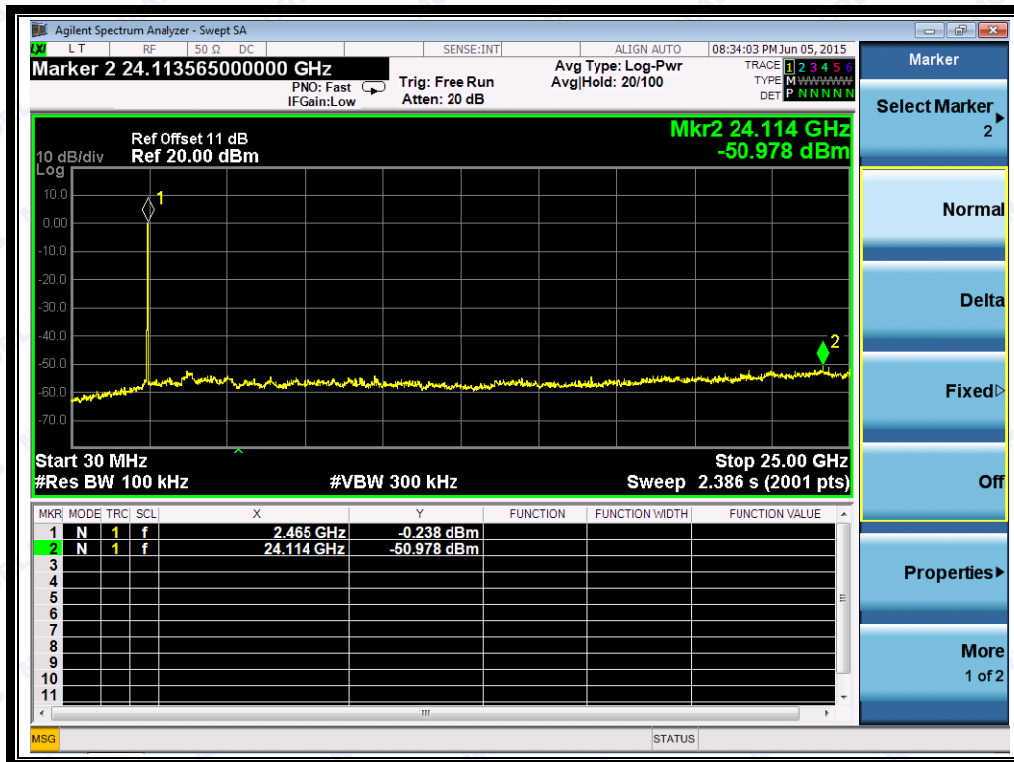
(Band Edge @ Channel = 1)



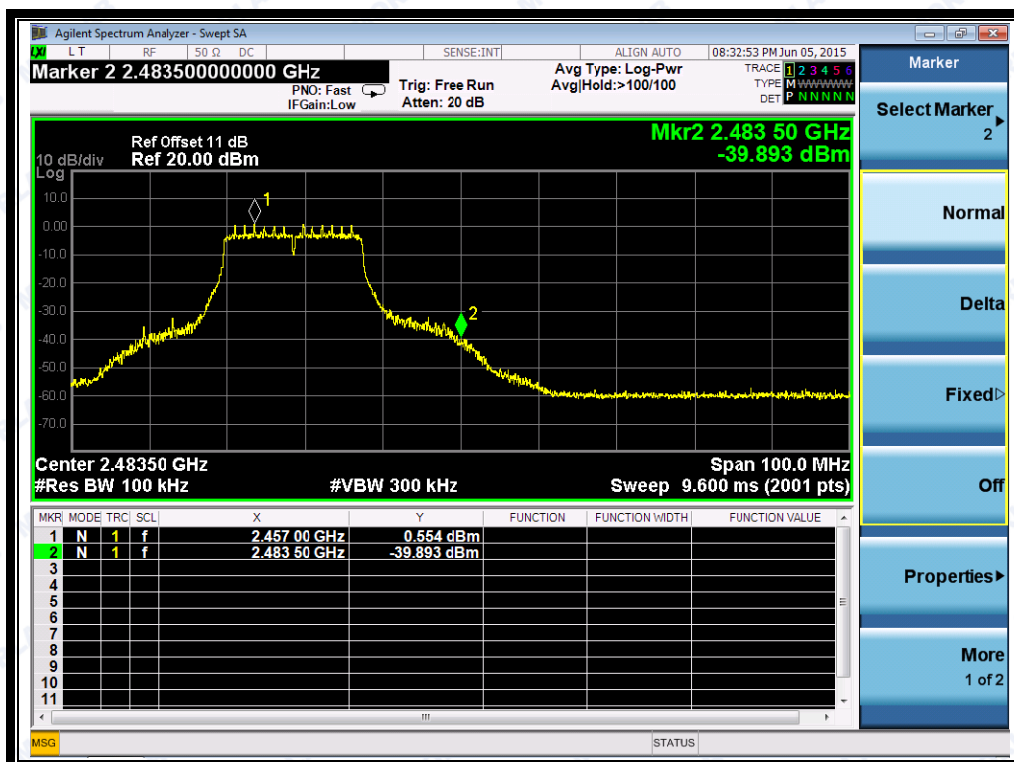
(Channel = 6, 30MHz to 25GHz)



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(Channel = 11, 30MHz to 25GHz)



(Band Edge @ Channel = 11)



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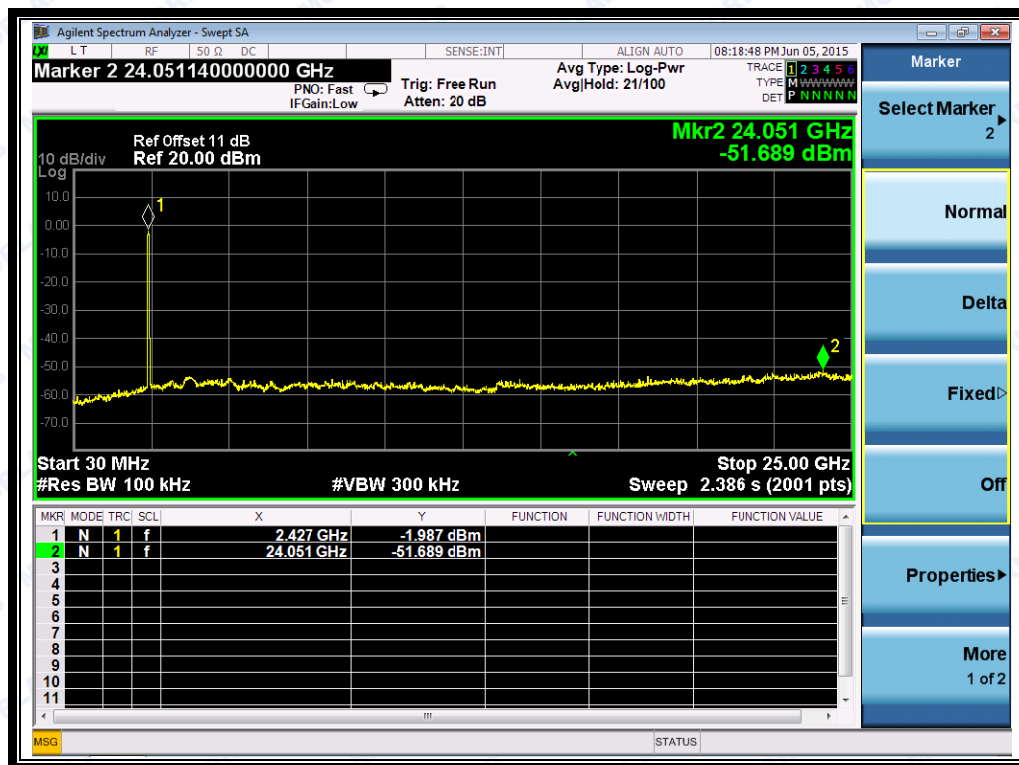
2.4.3.4 802.11n -40MHz Test mode

A. Test Verdict:

Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
			Carrier Level	Calculated -20dBc Limit	
3	2422	-51.689	-1.987	-21.987	PASS
6	2437	-52.578	-4.936	-24.936	PASS
9	2452	-51.241	-3.567	-23.567	PASS

B. Test Plots:

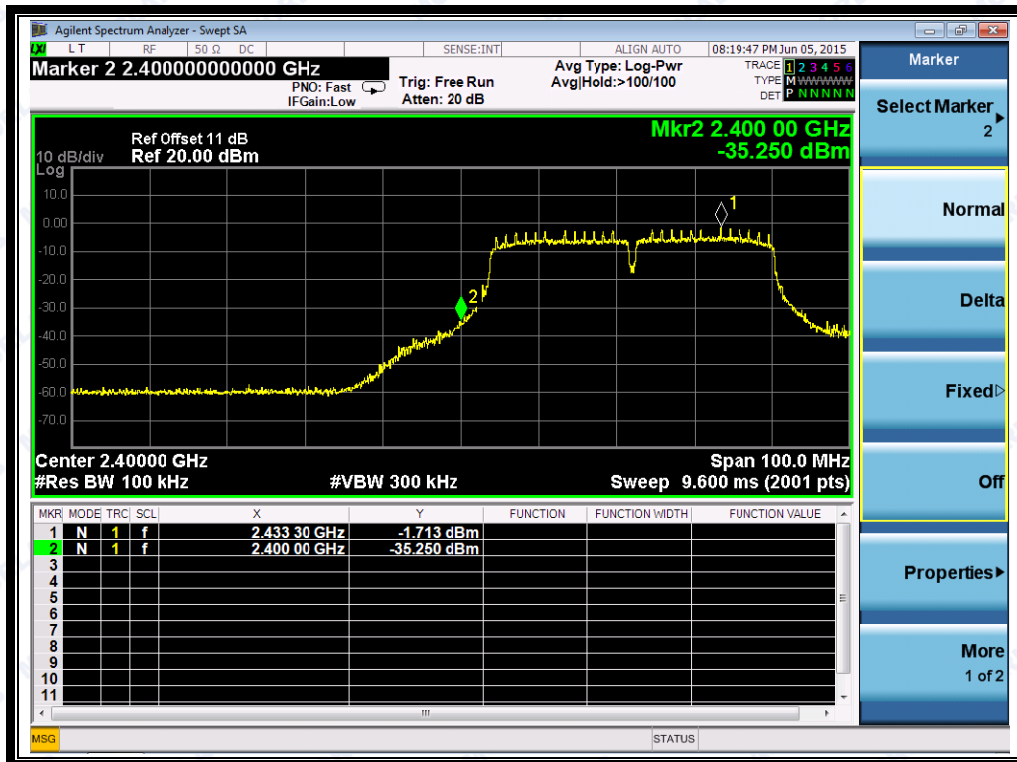
Note: the power of the Module transmitting frequency should be ignored.



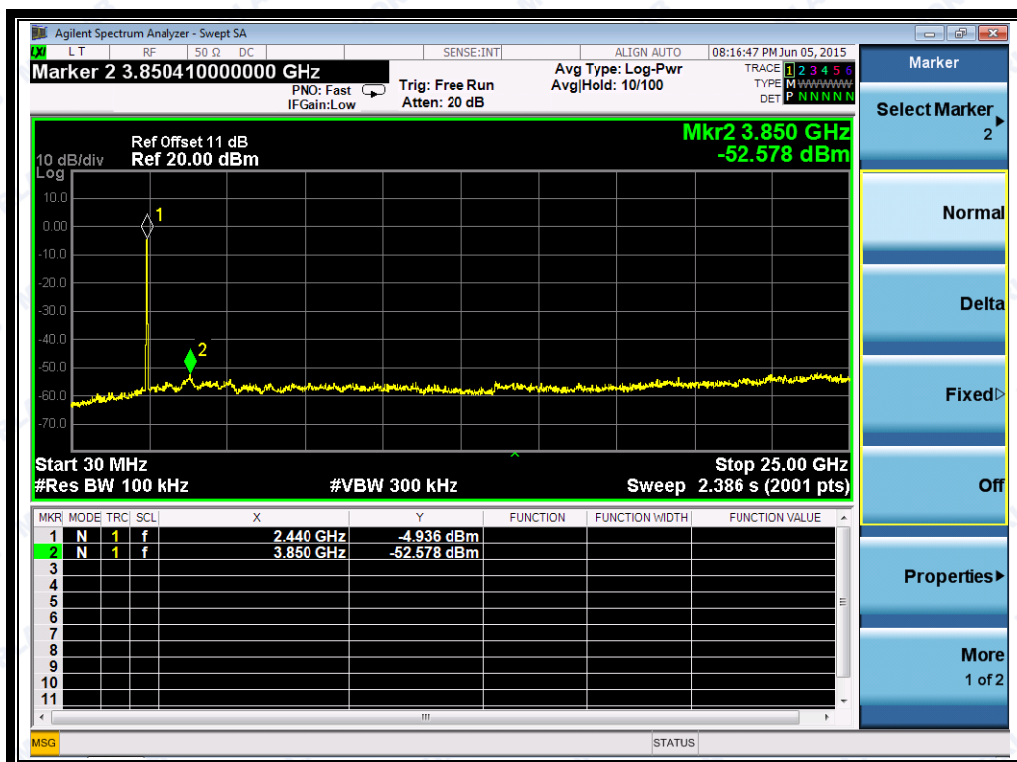
(Channel = 3, 30MHz to 25GHz)



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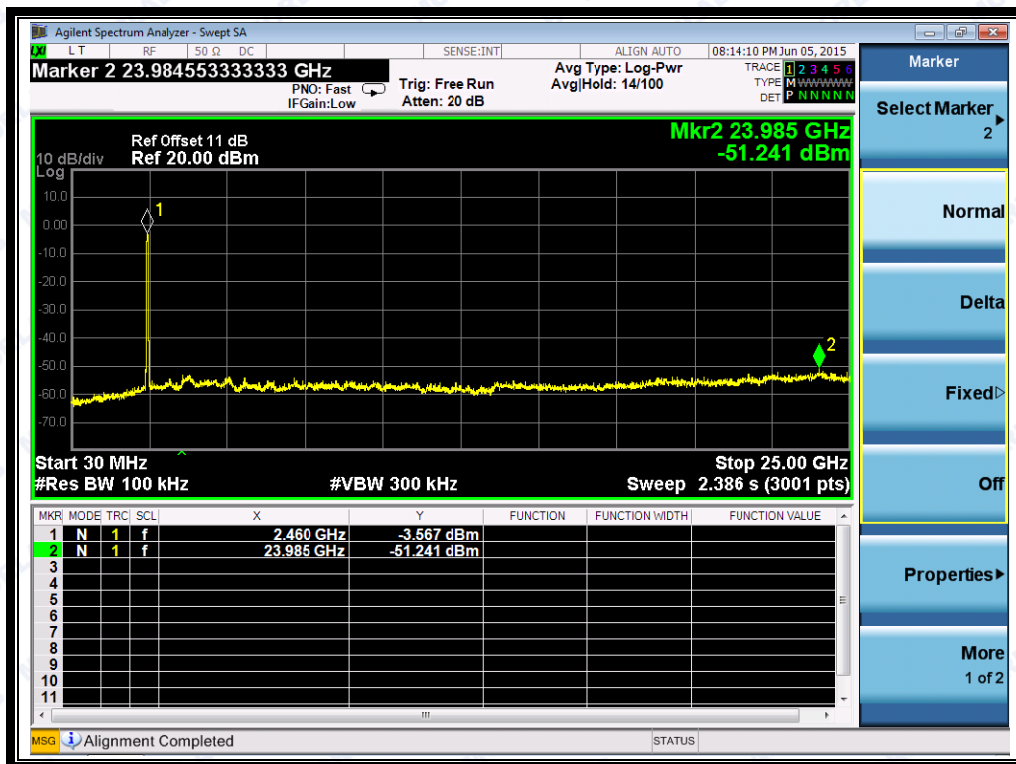
(Band Edge @ Channel = 3)



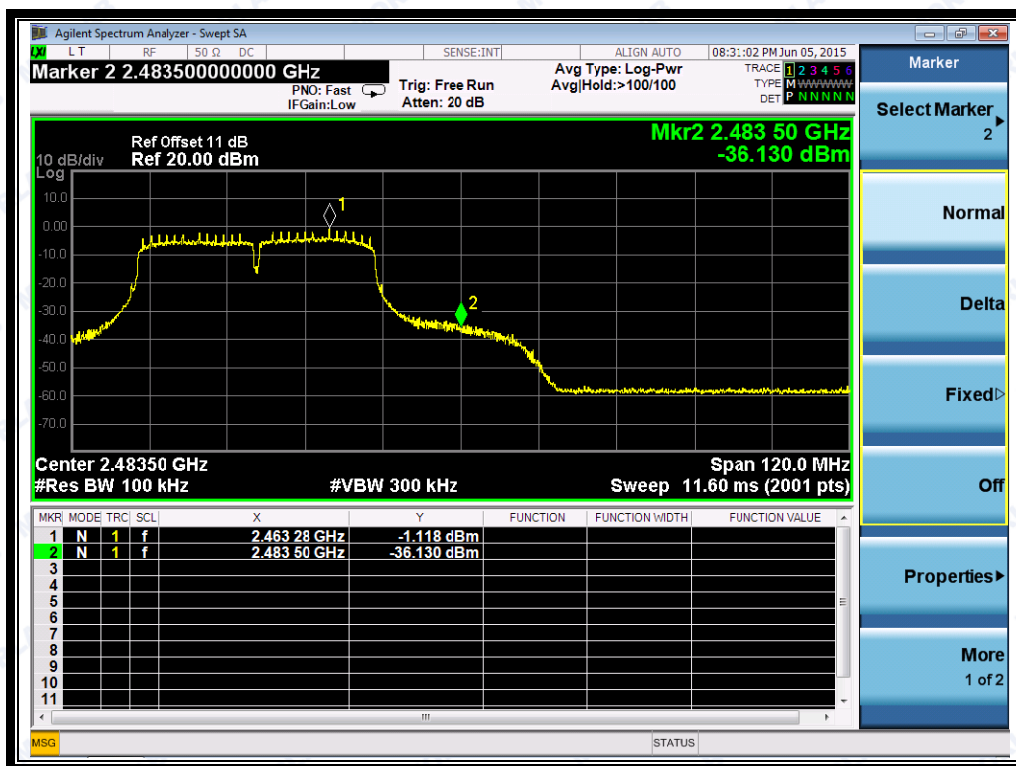
(Channel = 6, 30MHz to 25GHz)



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(Channel = 9, 30MHz to 25GHz)



(Band Edge @ Channel = 9)

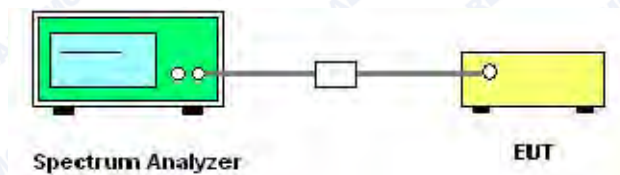
2.5 Power spectral density (PSD)

2.5.1 Requirement

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

2.5.2 Test Description

A. Test Set:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

KDB 558074 Section 10.2 was used in order to prove compliance.

B. Equipments List:

Please reference ANNEX A(1.4).



REPORT No.: SZ15050187W03

2.5.3 Test Result

2.5.3.1 802.11b Test mode

A. Test Verdict:

Spectral power density (dBm/3kHz)				
Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
1	2412	-4.731	8	PASS
6	2437	-6.202	8	PASS
11	2462	-6.771	8	PASS
Measurement uncertainty: ± 1.3 dB				

B. Test Plots:



(Channel = 1 @ 802.11b)



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(Channel = 6 @ 802.11b)



(Channel = 11 @ 802.11b)

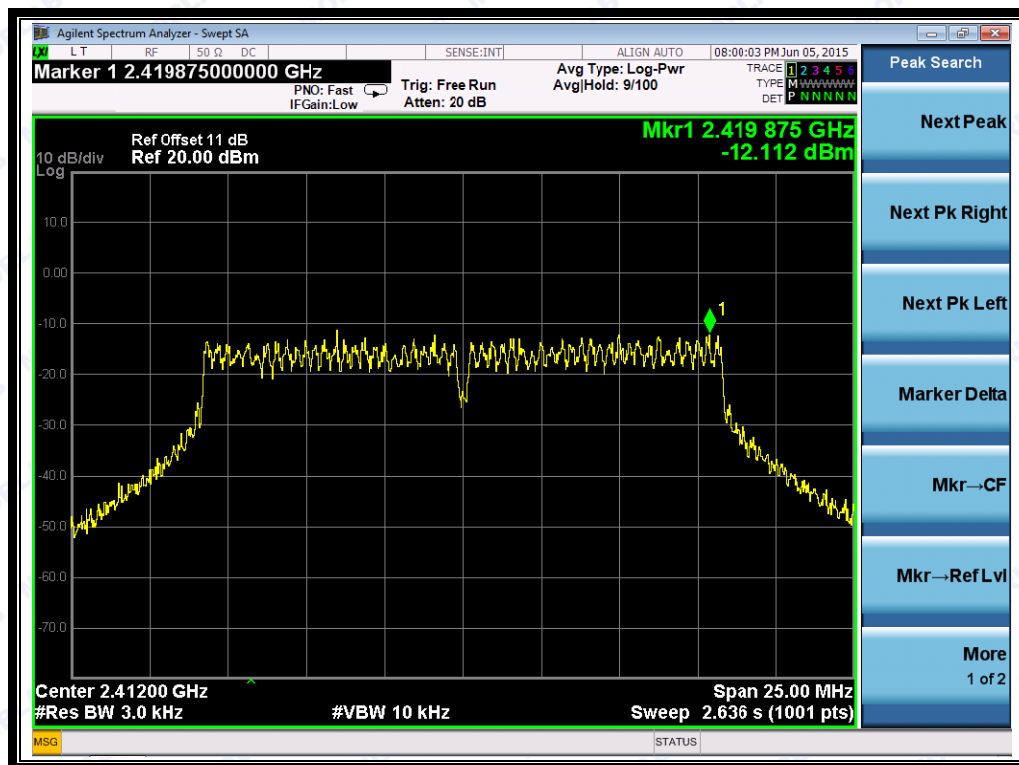


2.5.3.2 802.11g Test mode

A. Test Verdict:

Spectral power density (dBm/3kHz)				
Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
1	2412	-12.112	8	PASS
6	2437	-11.942	8	PASS
11	2462	-11.751	8	PASS
Measurement uncertainty: ± 1.3 dB				

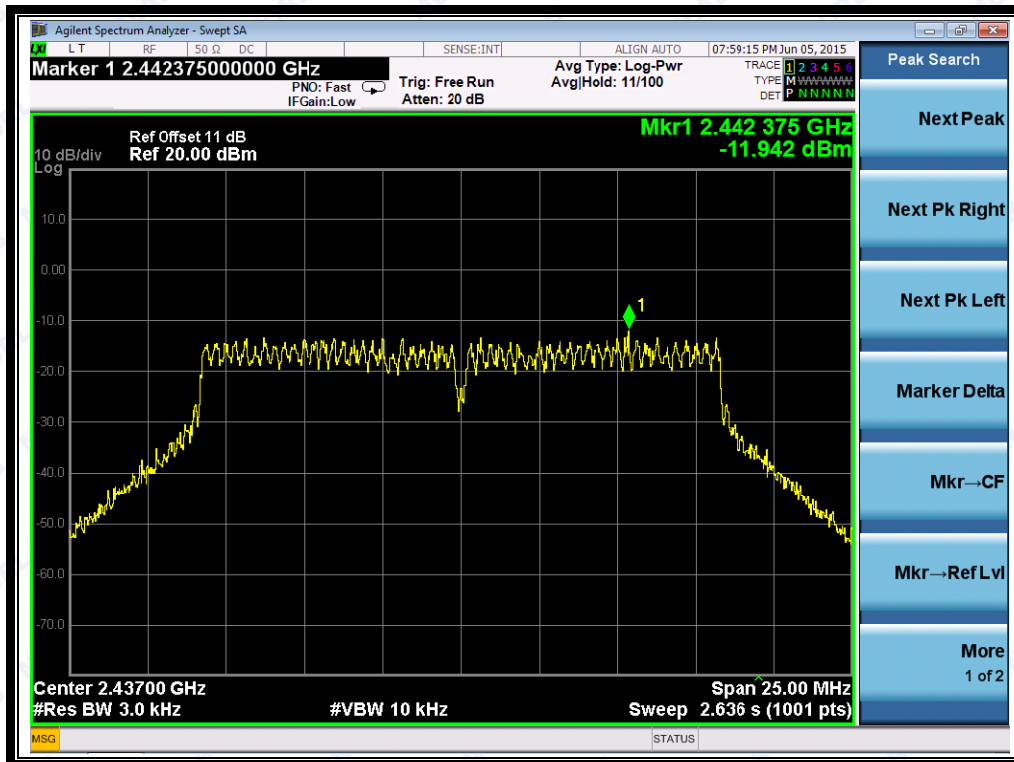
B. Test Plots:



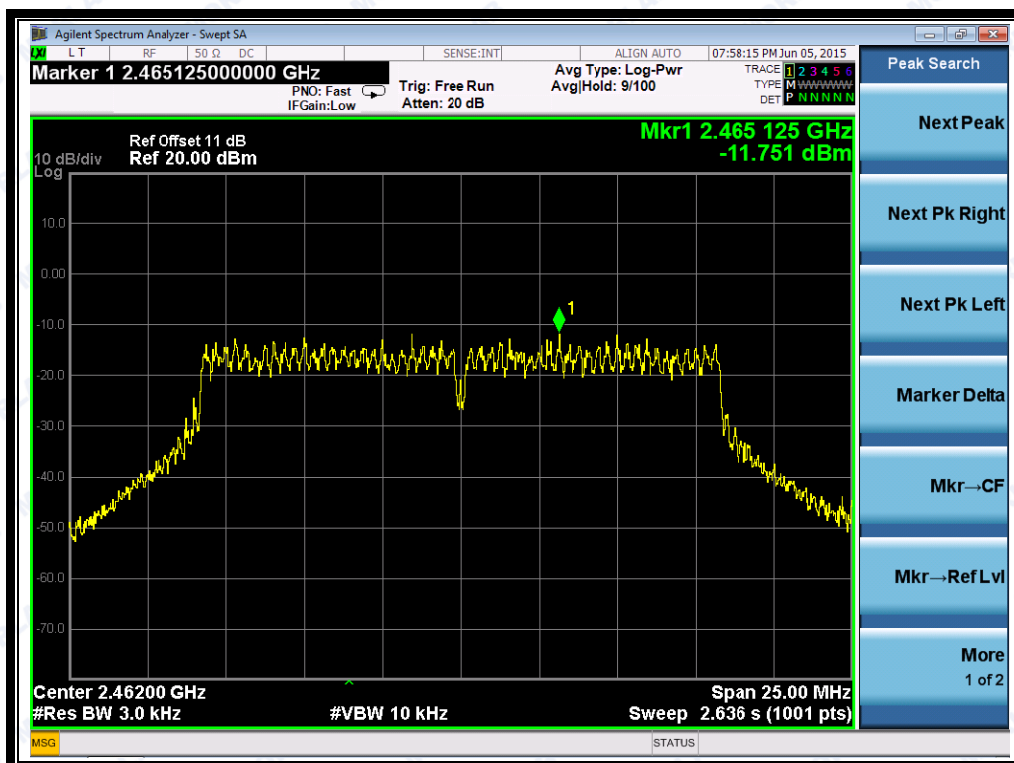
(Channel = 1 @ 802.11g)



REPORT No.: SZ15050187W03



(Channel = 6 @ 802.11g)



(Channel = 11 @ 802.11g)



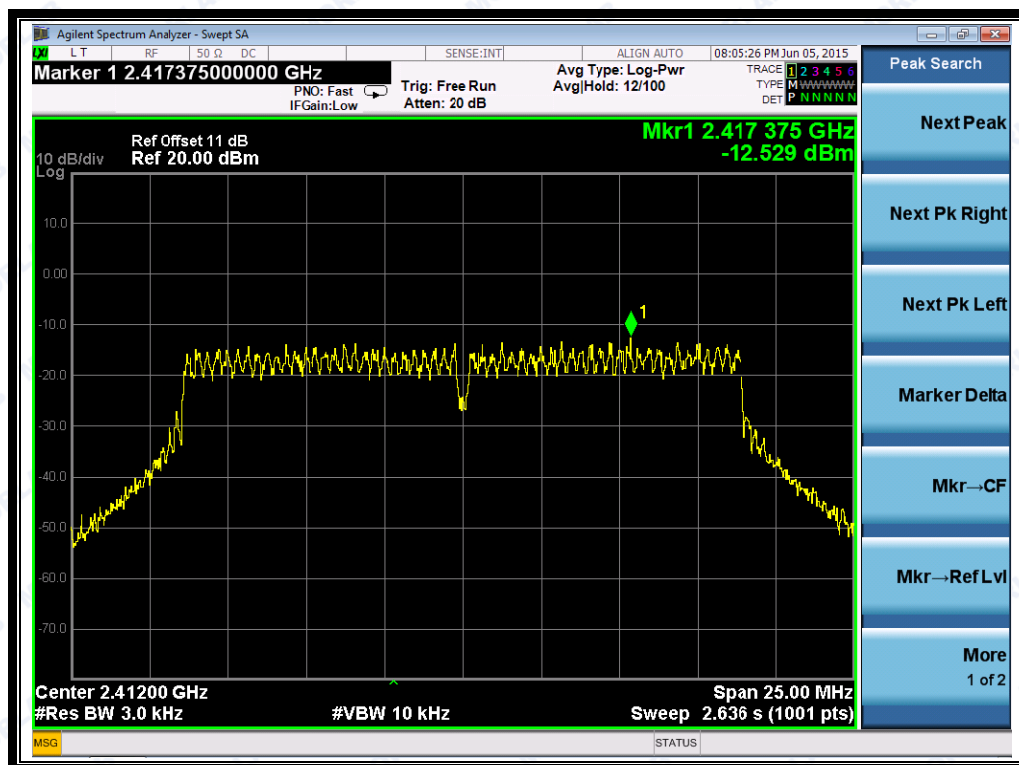
REPORT No.: SZ15050187W03

2.5.3.3 802.11n-20MHz Test mode

A. Test Verdict:

Spectral power density (dBm/3kHz)				
Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
1	2412	-12.529	8	PASS
6	2437	-14.148	8	PASS
11	2462	-13.725	8	PASS
Measurement uncertainty: ± 1.3 dB				

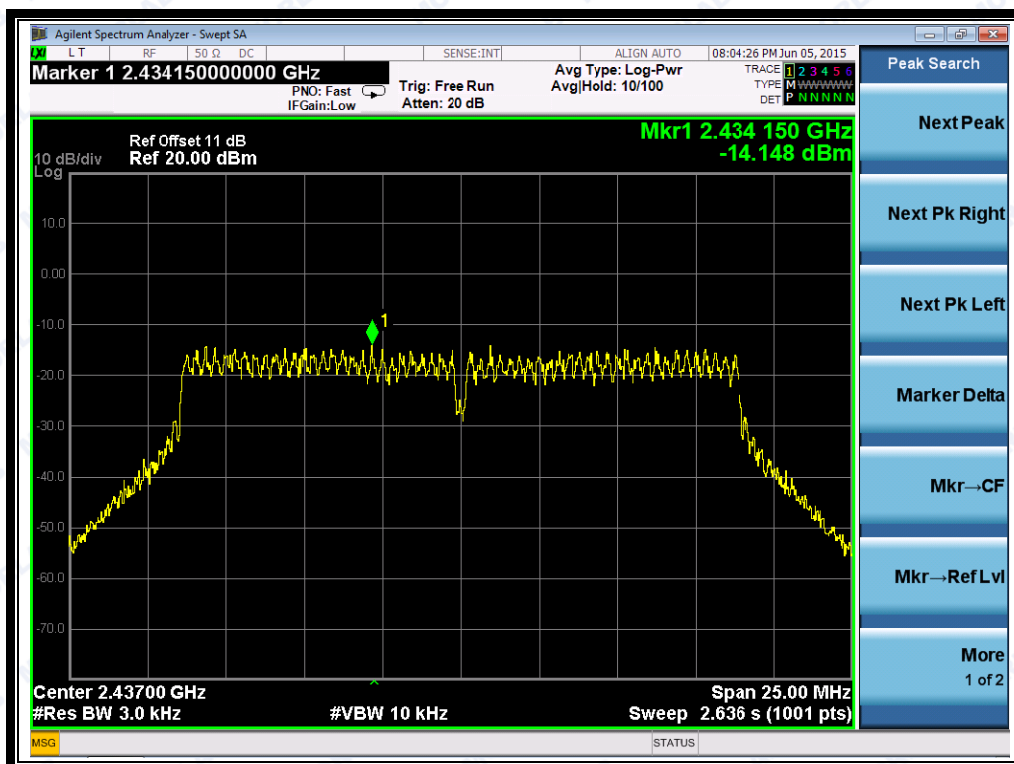
B. Test Plots:



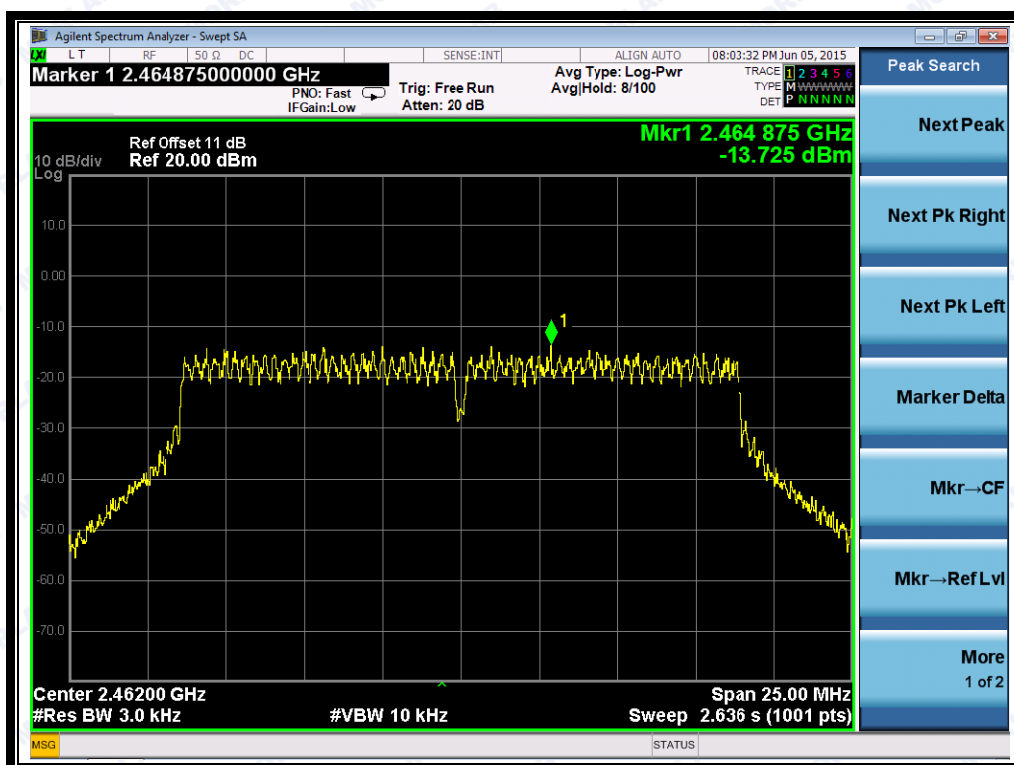
(Channel = 1 @ 802.11n-20MHz)



REPORT No.: SZ15050187W03



(Channel = 6 @ 802.11n-20MHz)



(Channel = 11 @ 802.11n-20MHz)



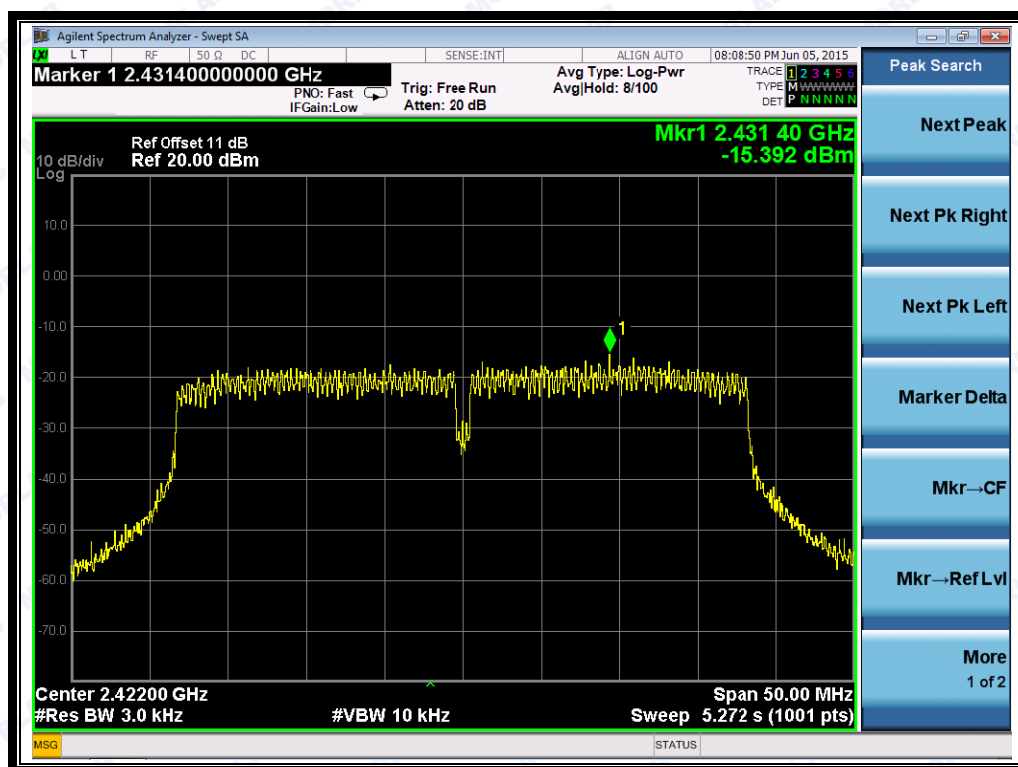
REPORT No.: SZ15050187W03

2.5.3.4 802.11n-40MHz Test mode

A. Test Verdict:

Spectral power density (dBm/3kHz)				
Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
3	2422	-15.392	8	PASS
6	2437	-16.672	8	PASS
9	2452	-15.860	8	PASS
Measurement uncertainty: ± 1.3 dB				

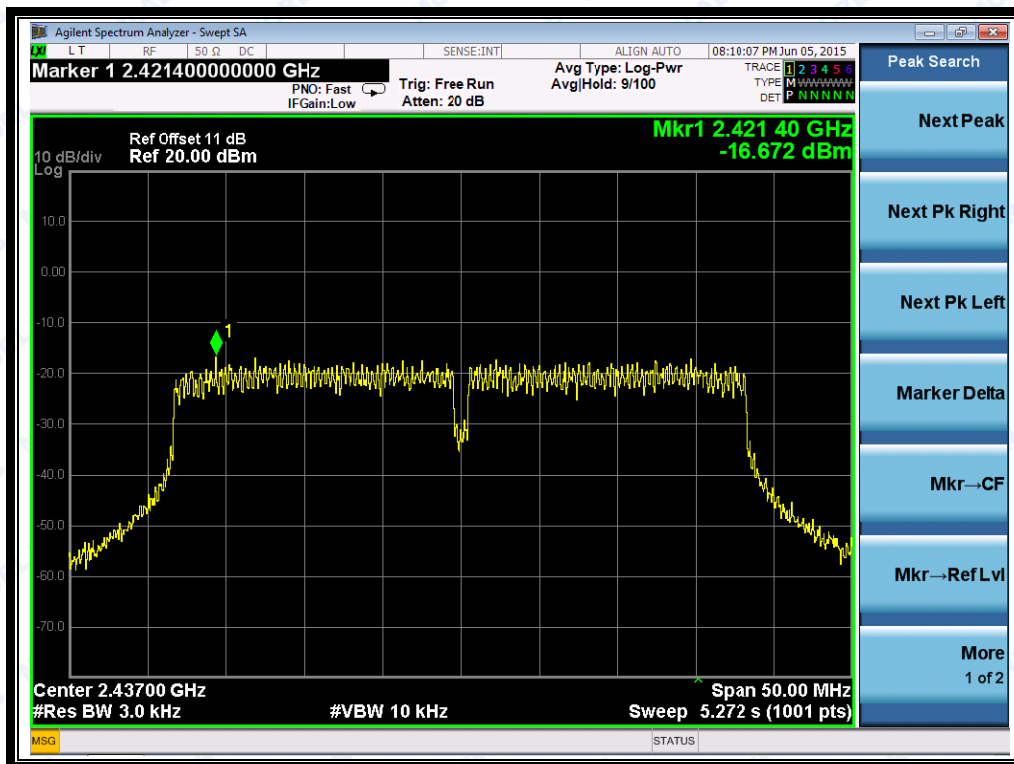
B. Test Plots:



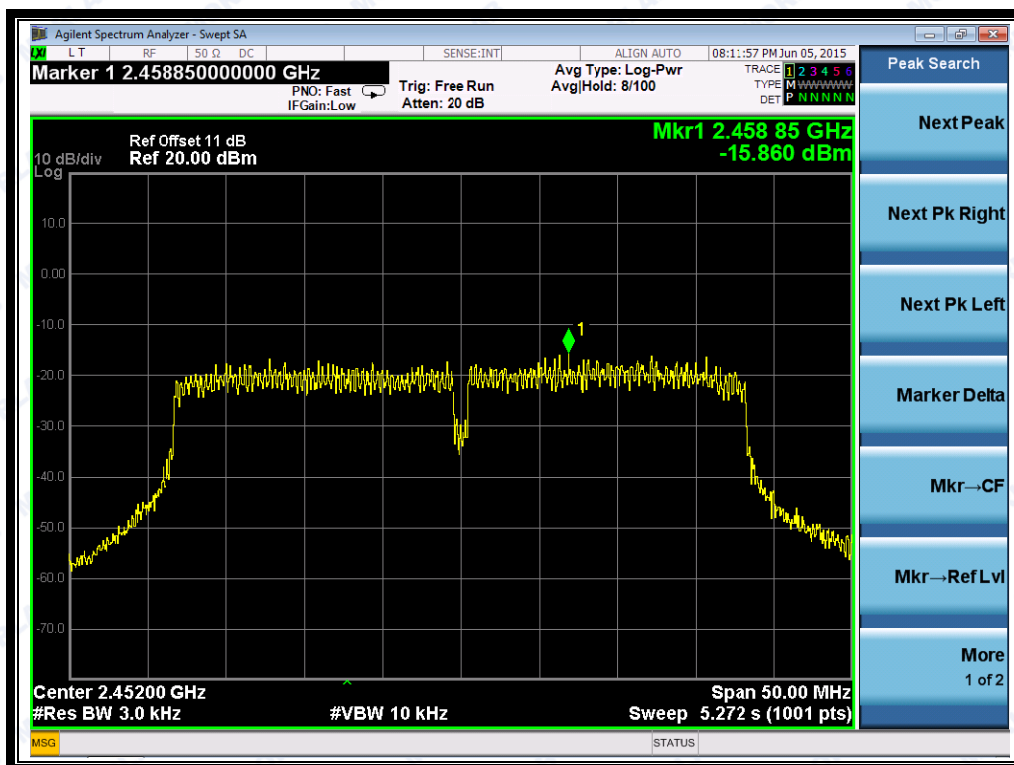
(Channel = 3 @ 802.11n-40MHz)



REPORT No.: SZ15050187W03



(Channel = 6 @ 802.11n-40MHz)



(Channel = 9 @ 802.11n-40MHz)

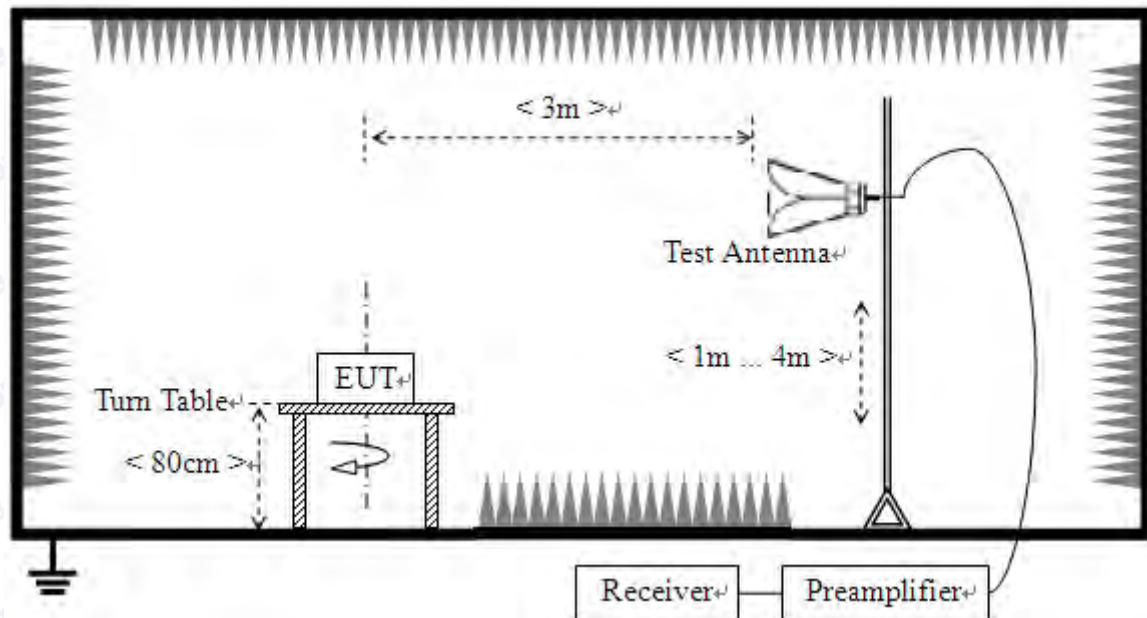
2.6 Restricted Frequency Bands

2.6.1 Requirement

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired 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).

2.6.2 Test Description

A. Test Setup



The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

KDB 558074 Section 12.1 was used in order to prove compliance.

B. Equipments List:

Please reference ANNEX A(1.4).



2.6.3 Test Result

The lowest and highest channels are tested to verify Restricted Frequency Bands.

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

2.6.3.1 802.11b Test mode

The lowest and highest channels are tested to verify the band edge emissions.

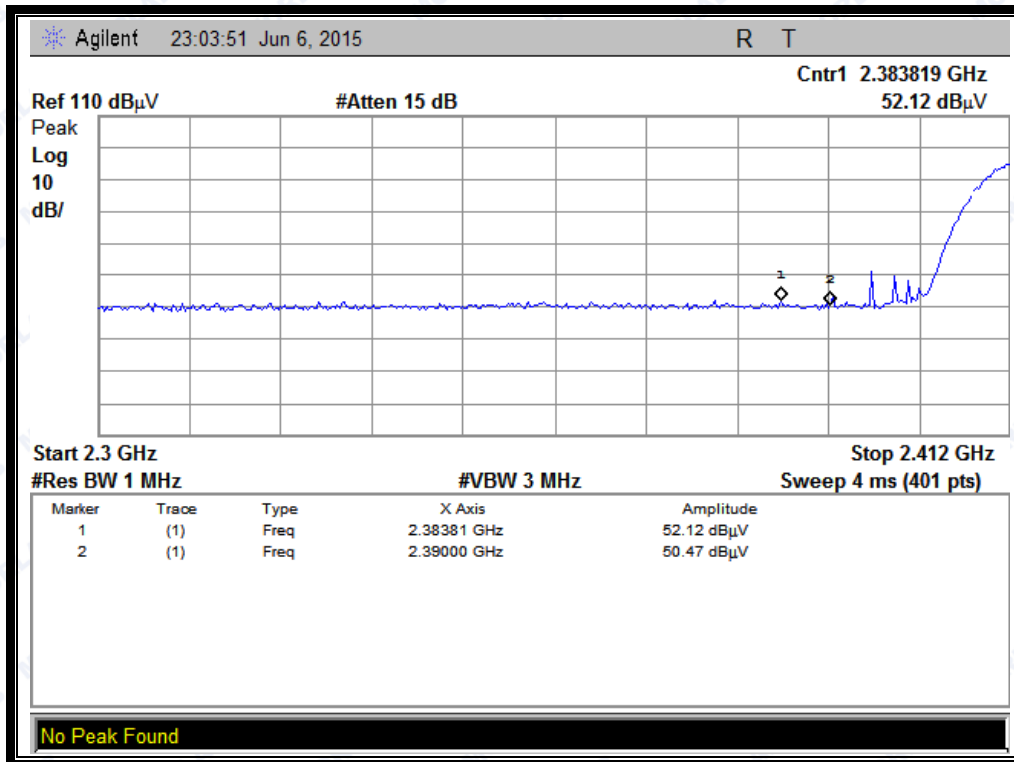
A. Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBuV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2383.81	PK	52.12	-33.63	32.56	51.05	74	Pass
1	2381.29	AV	41.22	-33.63	32.56	40.15	54	Pass
11	2487.11	PK	51.97	-33.18	32.5	51.29	74	Pass
11	2481.54	AV	41.01	-33.18	32.5	40.33	54	Pass

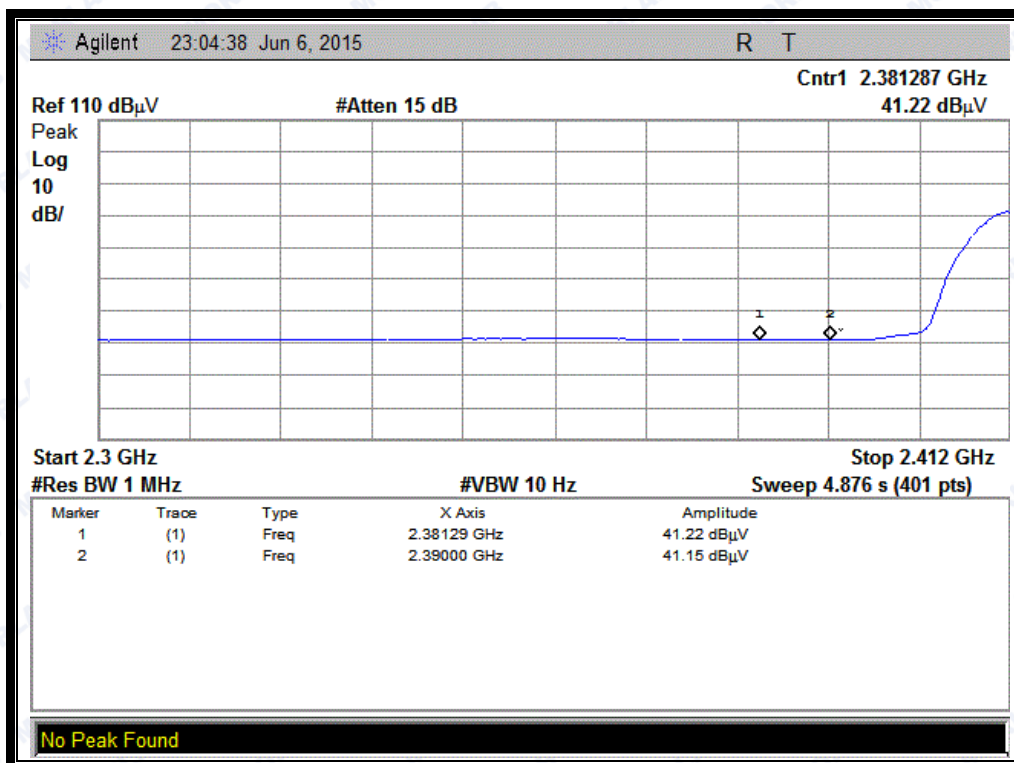
B. Test Plots:



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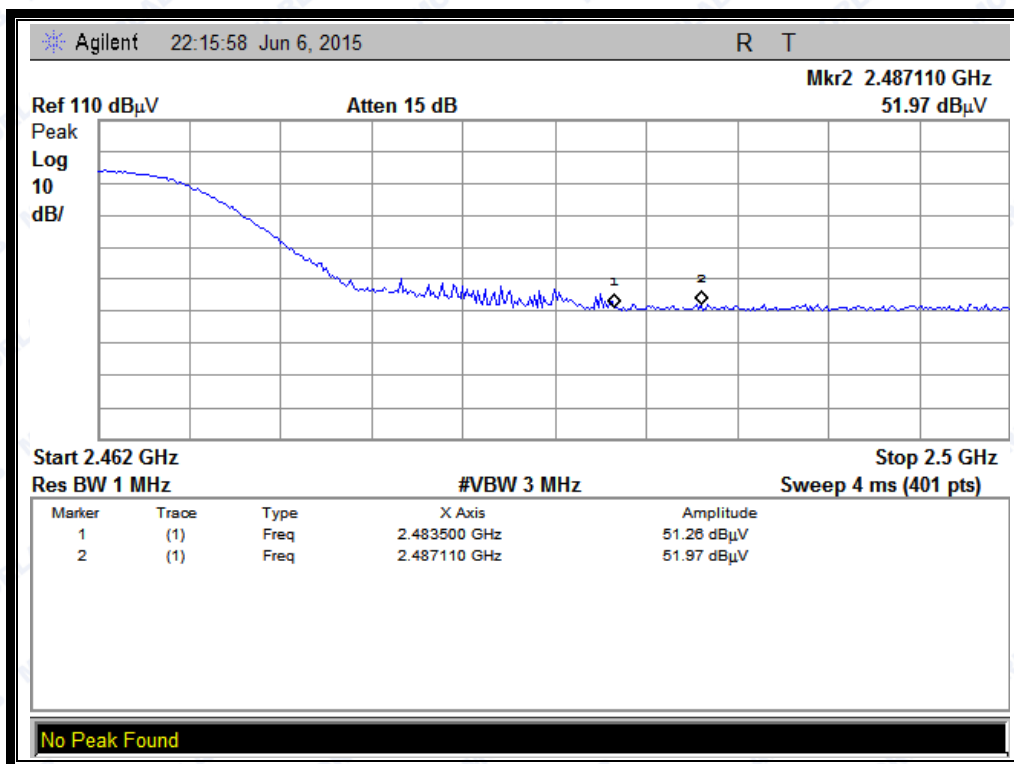
(Plot A1: Channel = 1 PEAK @ 802.11b)



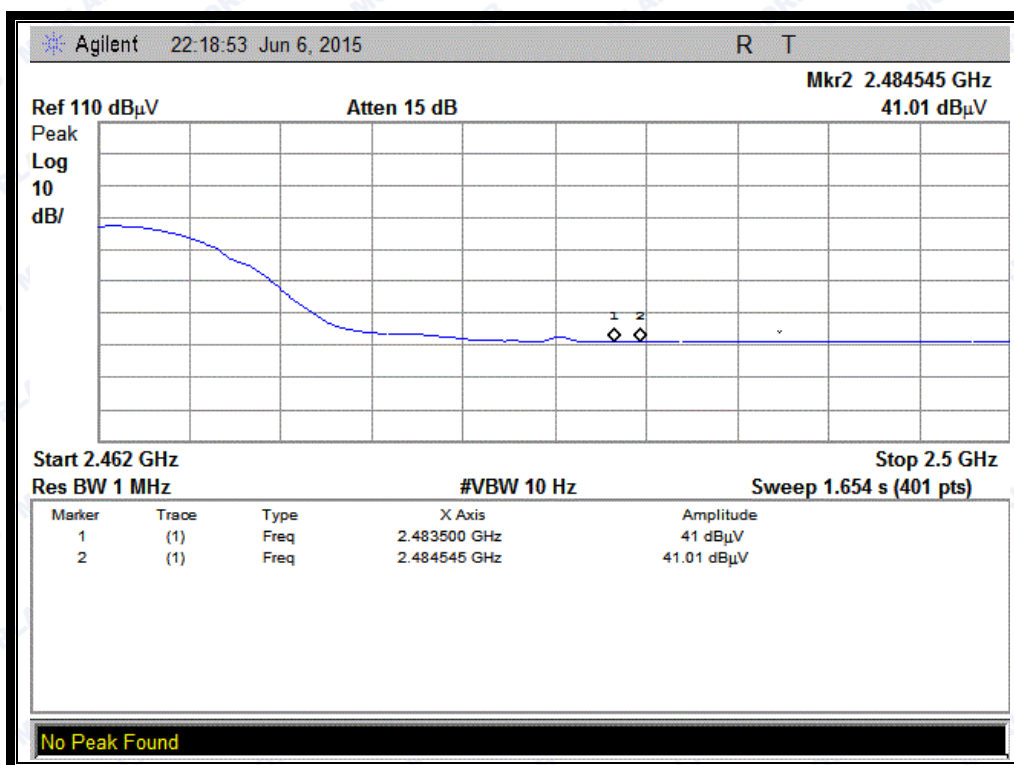
(Plot A2: Channel = 1 AVG @ 802.11b)



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(Plot B1: Channel = 11 PEAK @ 802.11b)



(Plot B2: Channel = 11 AVG @ 802.11b)



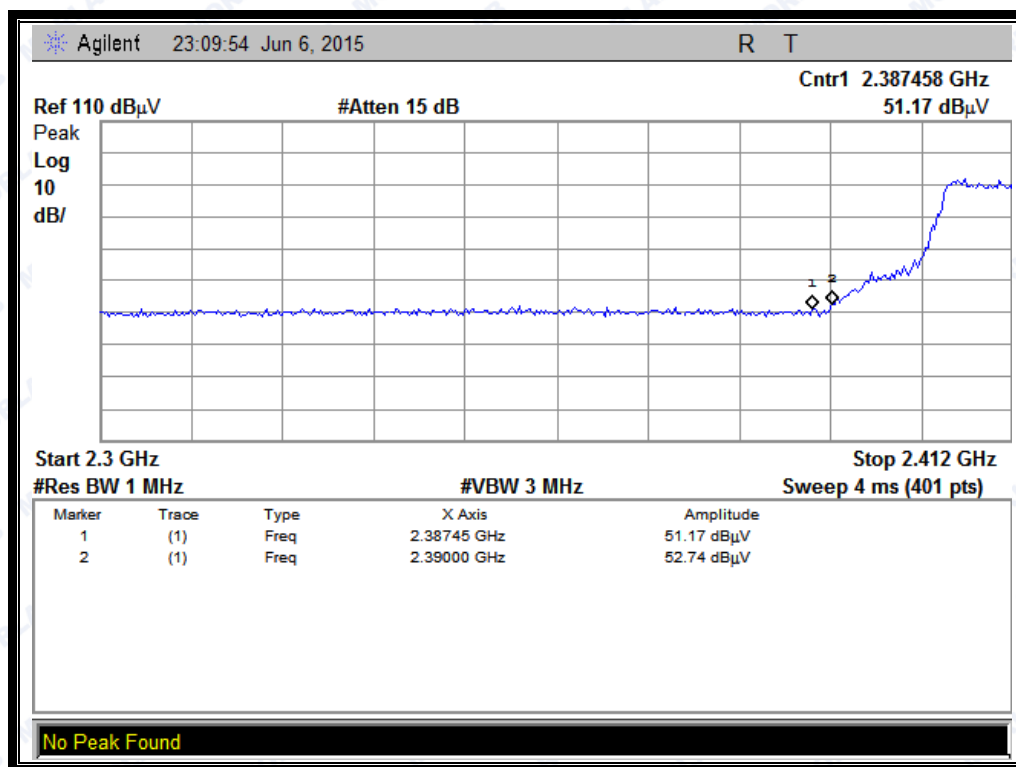
REPORT No.: SZ15050187W03

2.6.3.2 802.11g Test mode

The lowest and highest channels are tested to verify the band edge emissions.

A. Test Verdict:

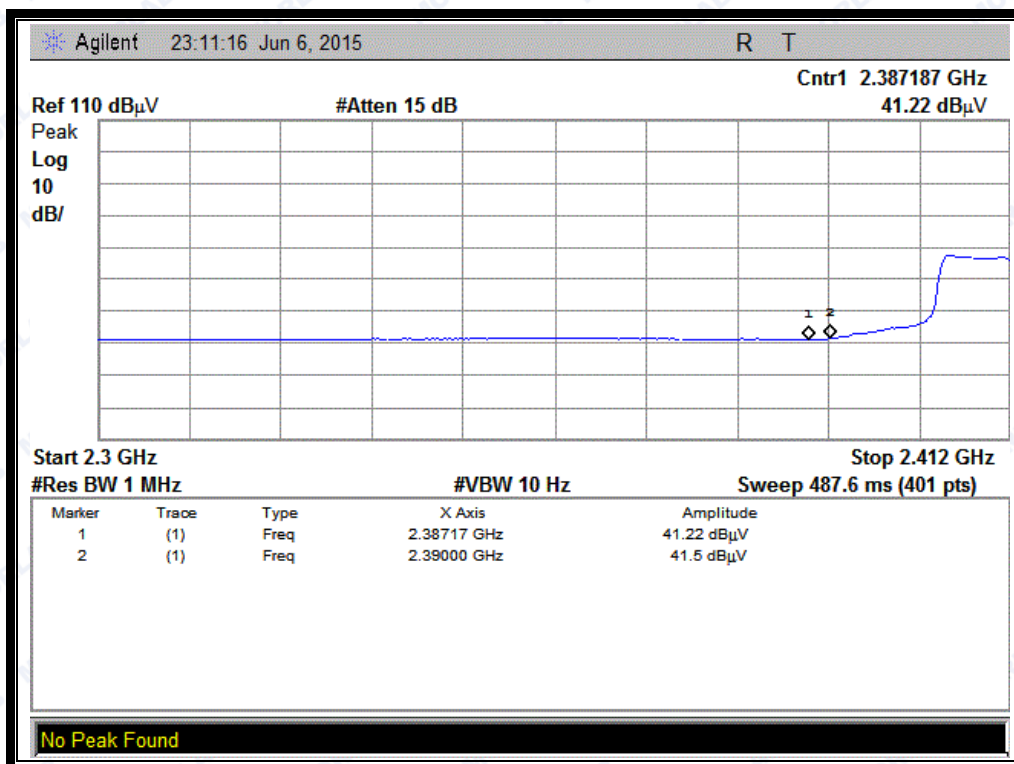
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2387.45	PK	51.17	-33.63	32.56	50.1	74	Pass
1	2387.17	AV	41.22	-33.63	32.56	40.15	54	Pass
11	2484.07	PK	59.80	-33.18	32.5	59.12	74	Pass
11	2484.26	AV	42.88	-33.18	32.5	42.2	54	Pass

B. Test Plots:

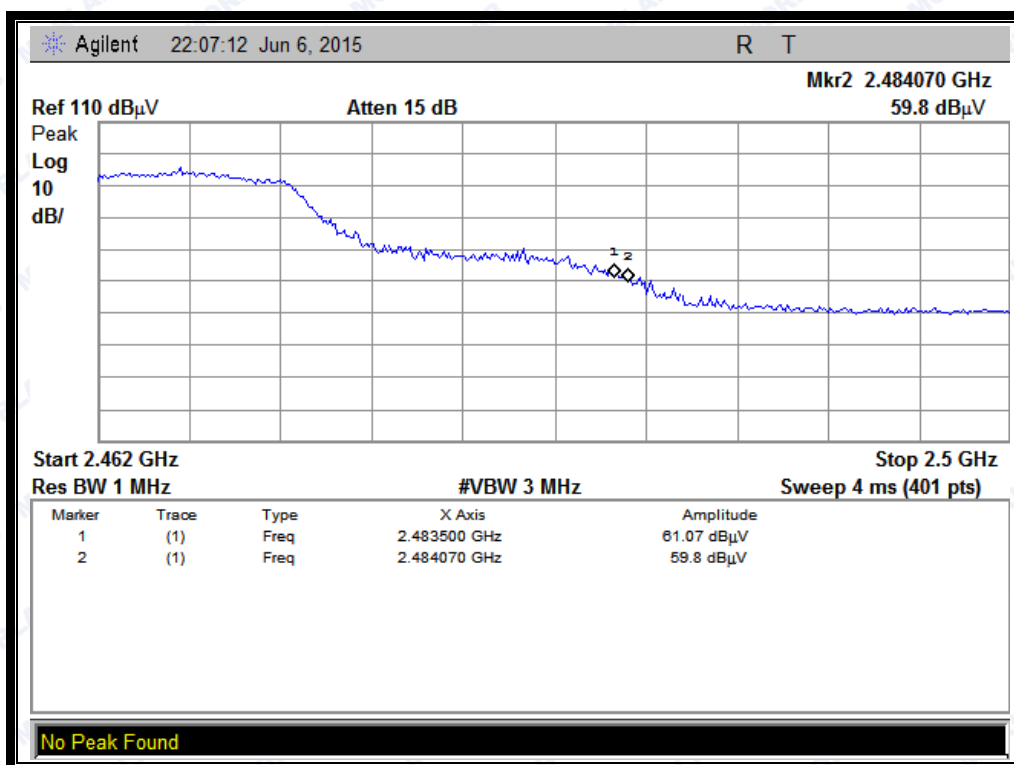
(Plot C1: Channel = 1 PEAK @ 802.11g)



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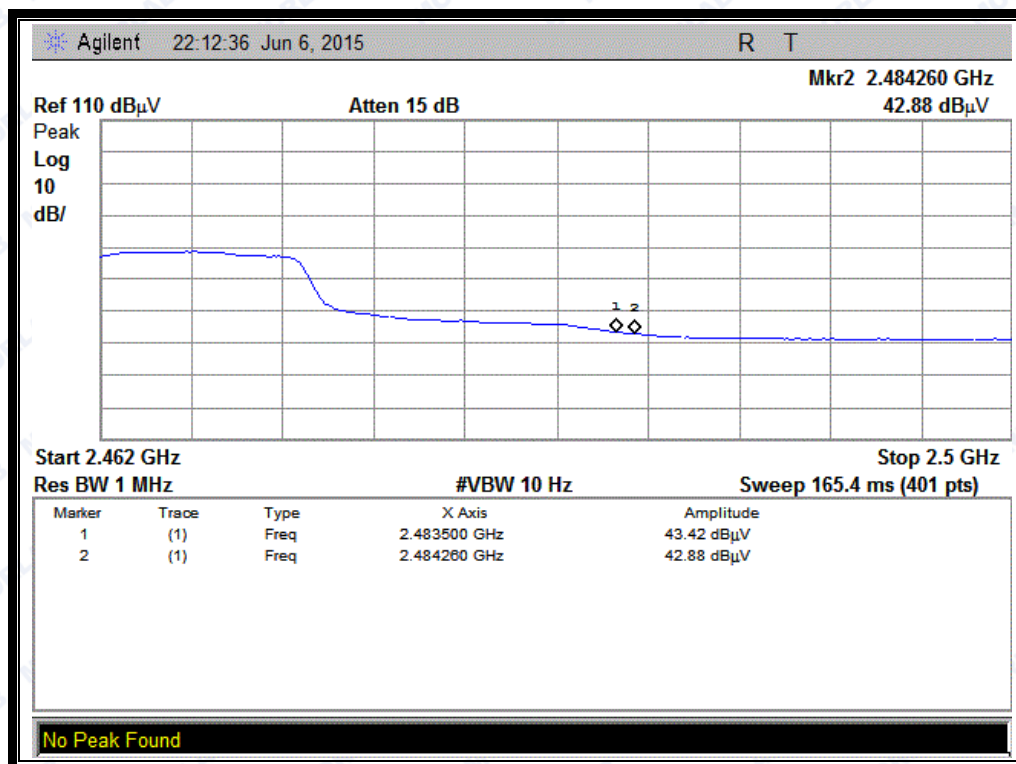
(Plot C2: Channel = 1 AVG @ 802.11g)



(Plot D1: Channel = 11 PEAK @ 802.11g)



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(Plot D2: Channel = 11 AVG @ 802.11g)

2.6.3.3 802.11n-20MHz Test mode

The lowest and highest channels are tested to verify the band edge emissions.

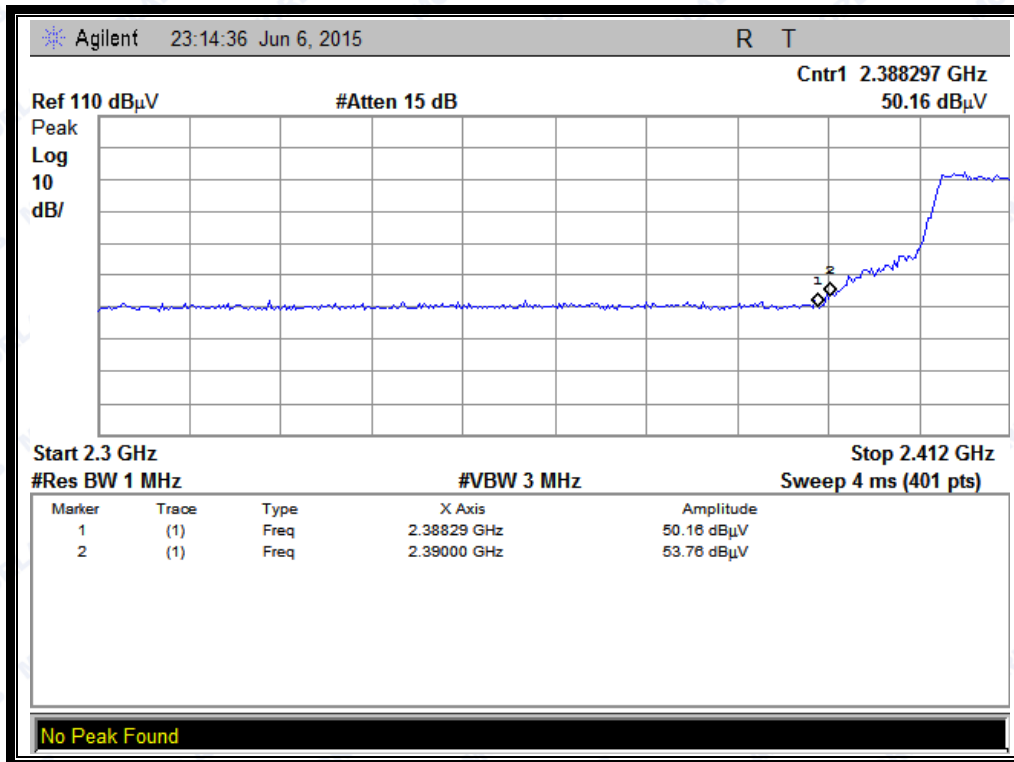
A. Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
1	2388.29	PK	50.16	-33.63	32.56	49.09	74	Pass
1	2387.45	AV	41.24	-33.63	32.56	40.17	54	Pass
11	2484.92	PK	57.59	-33.18	32.5	56.91	74	Pass
11	2484.35	AV	44.16	-33.18	32.5	43.48	54	Pass

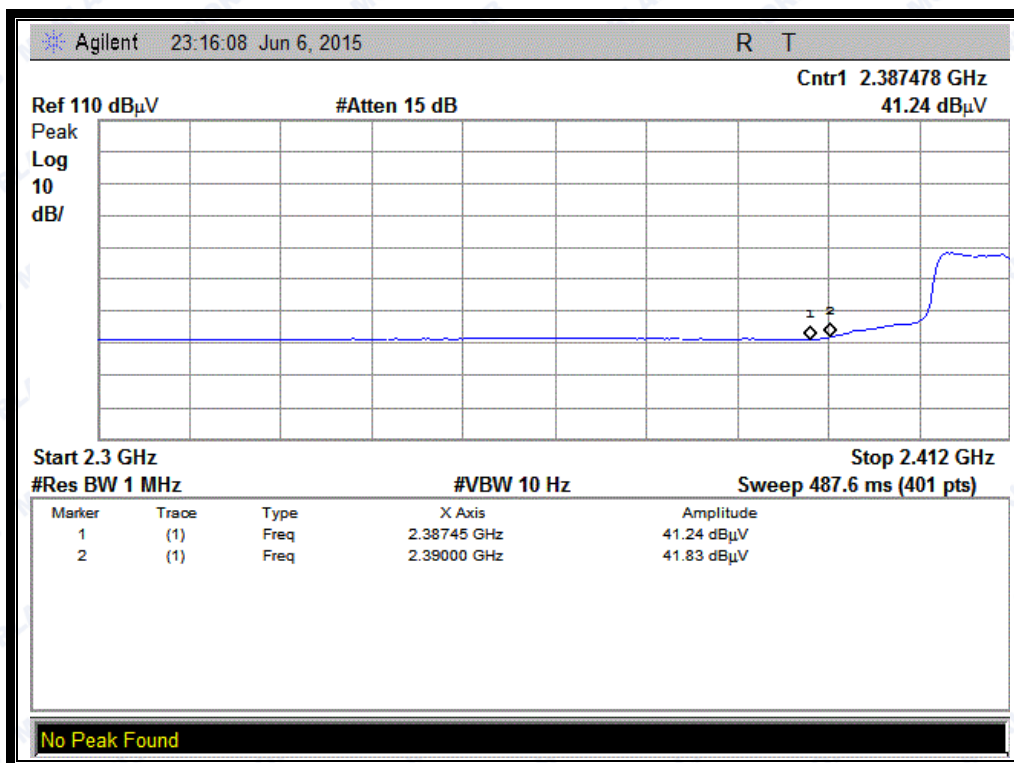
B. Test Plots:



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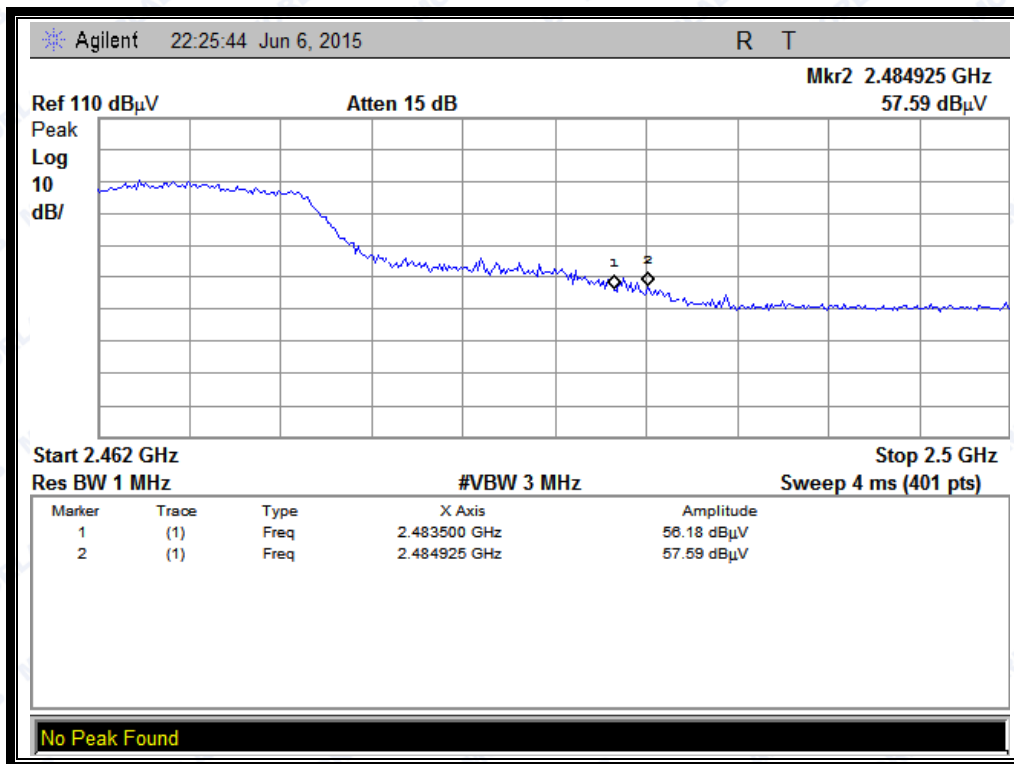
(Plot E1: Channel = 1 PEAK @ 802.11n-20)



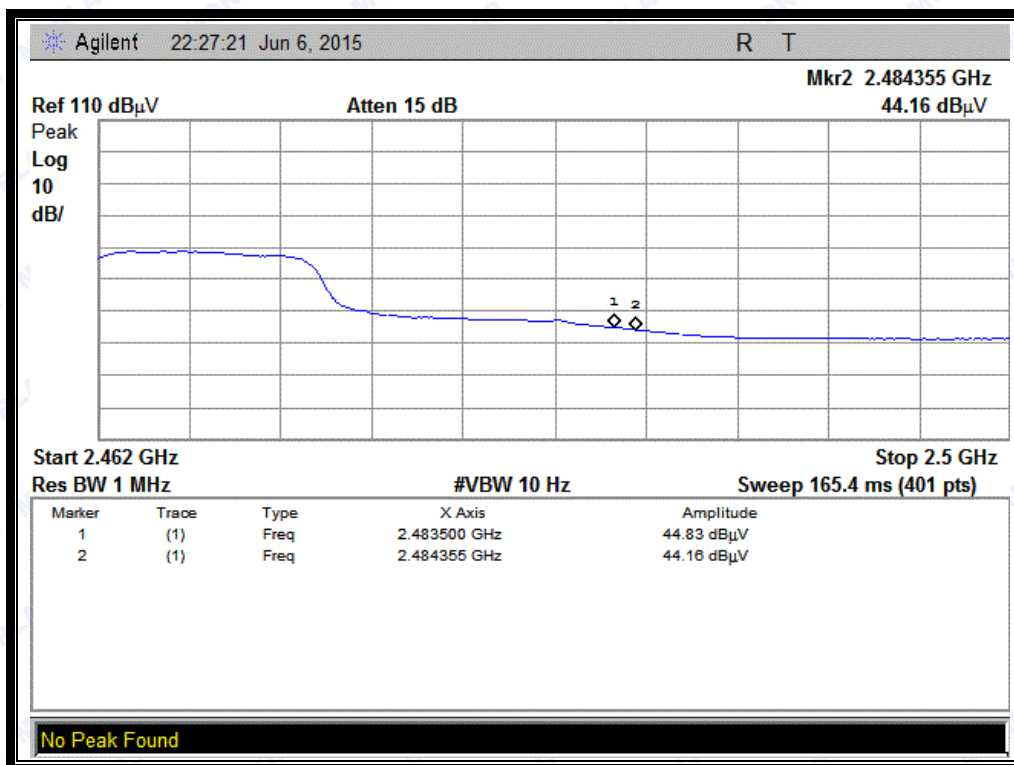
(Plot E2: Channel = 1 AVG @ 802.11n-20)



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(Plot F1: Channel = 11 PEAK @ 802.11n-20)



(Plot F2: Channel = 11 AVG @ 802.11n-20)



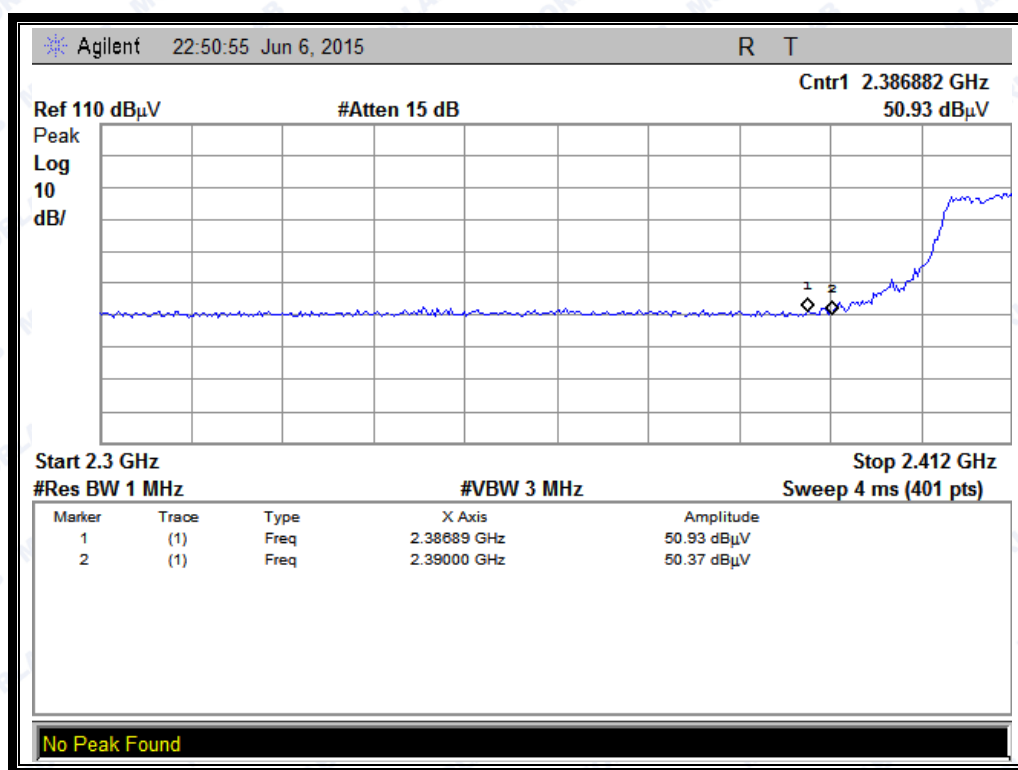
2.6.3.4 802.11n-40MHz Test mode

The lowest and highest channels are tested to verify the band edge emissions.

A. Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
3	2386.89	PK	50.93	-33.63	32.56	49.86	74	Pass
3	2372.61	AV	41.43	-33.63	32.56	40.36	54	Pass
9	2484.54	PK	58.45	-33.18	32.5	57.77	74	Pass
9	2484.64	AV	42.75	-33.18	32.5	42.07	54	Pass

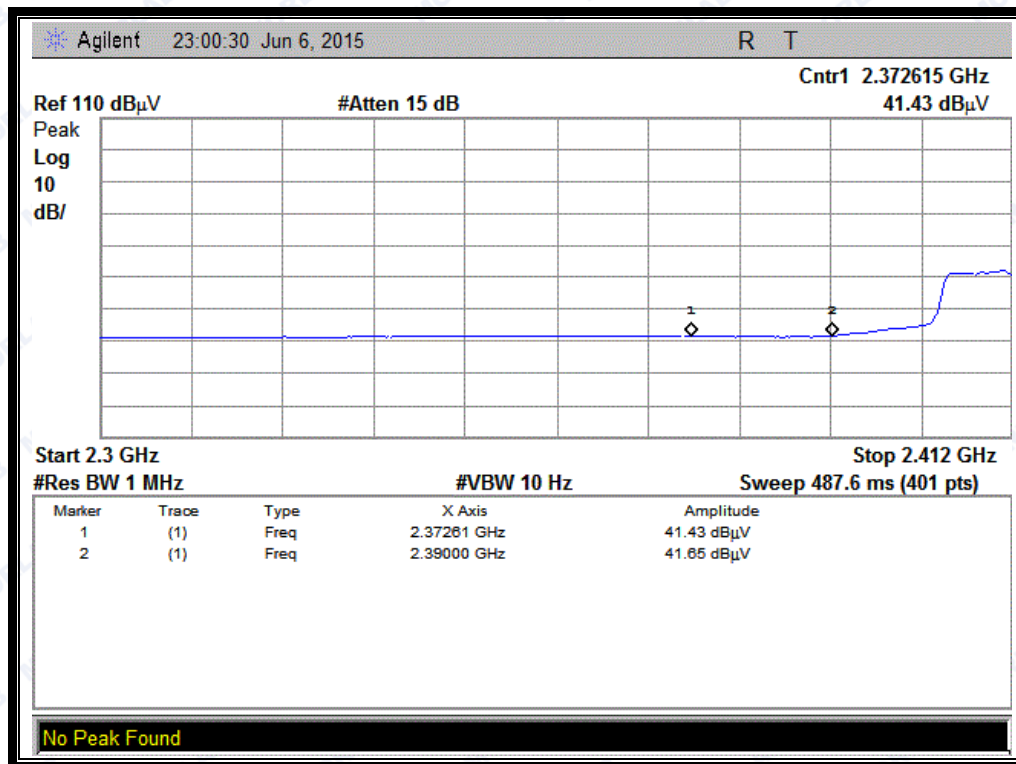
B. Test Plots:



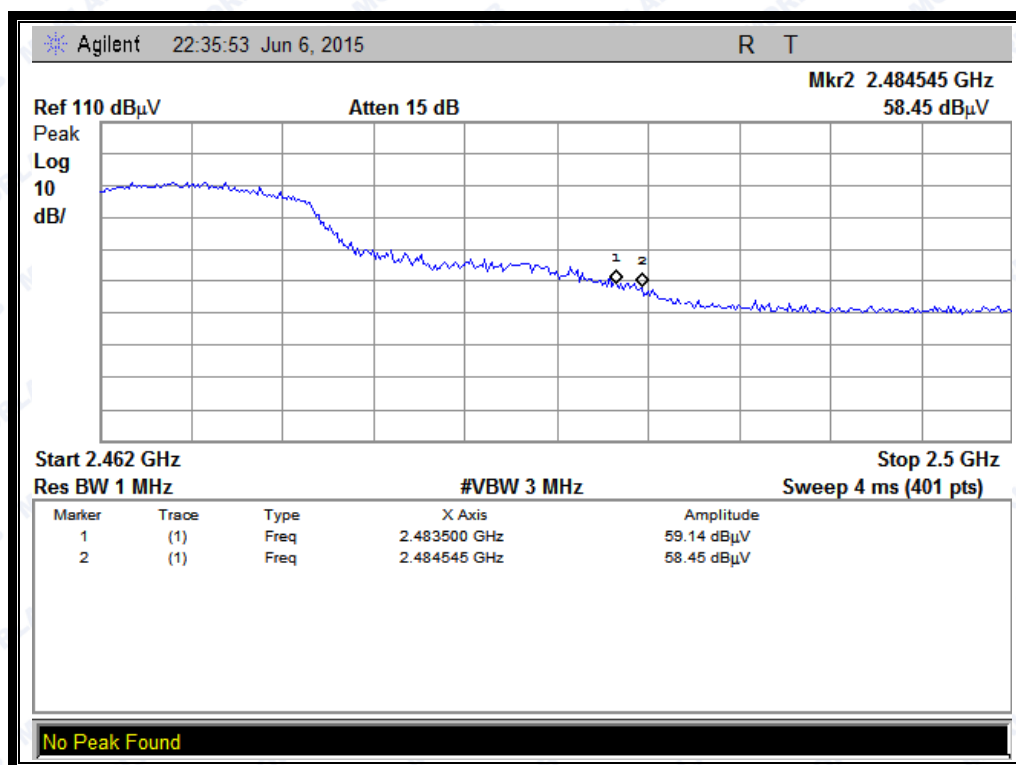
(Plot E1: Channel = 3 PEAK @ 802.11n-40)



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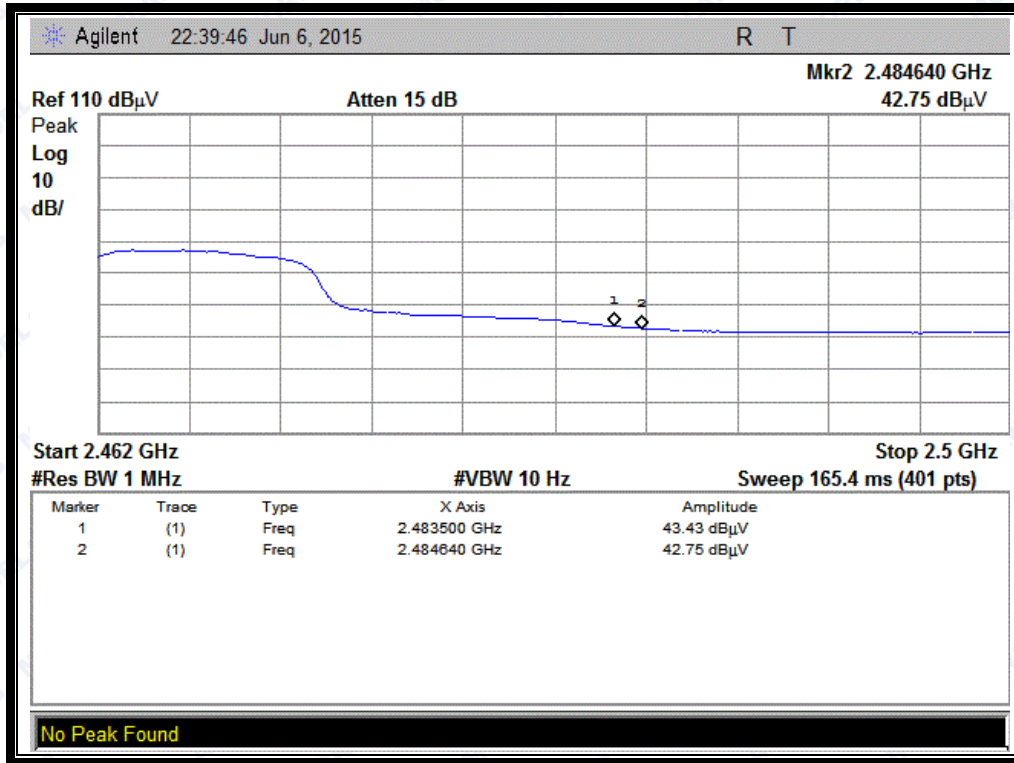
(Plot E2: Channel = 3 AVG @ 802.11n-40)



(Plot F1: Channel = 9 PEAK @ 802.11n-40)



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(Plot F2: Channel = 9 AVG @ 802.11n-40)

2.7 Conducted Emission

2.7.1 Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

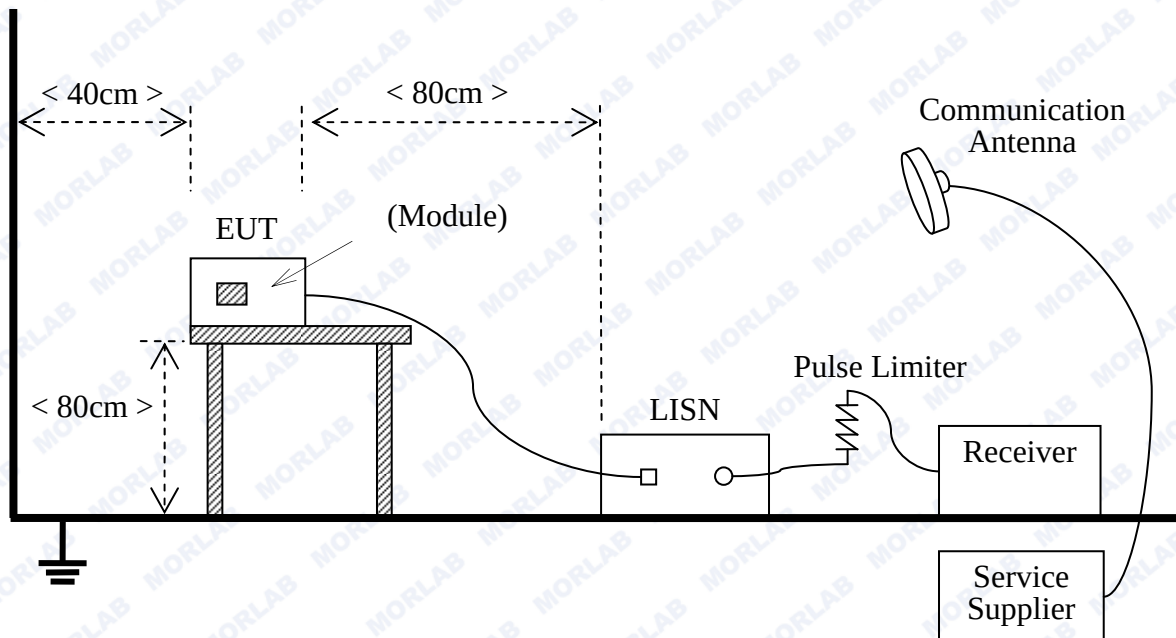
Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- The lower limit shall apply at the band edges.
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.7.2 Test Description

A. Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.4:2009

**B. Equipments List:**

Please reference ANNEX A(1.4).

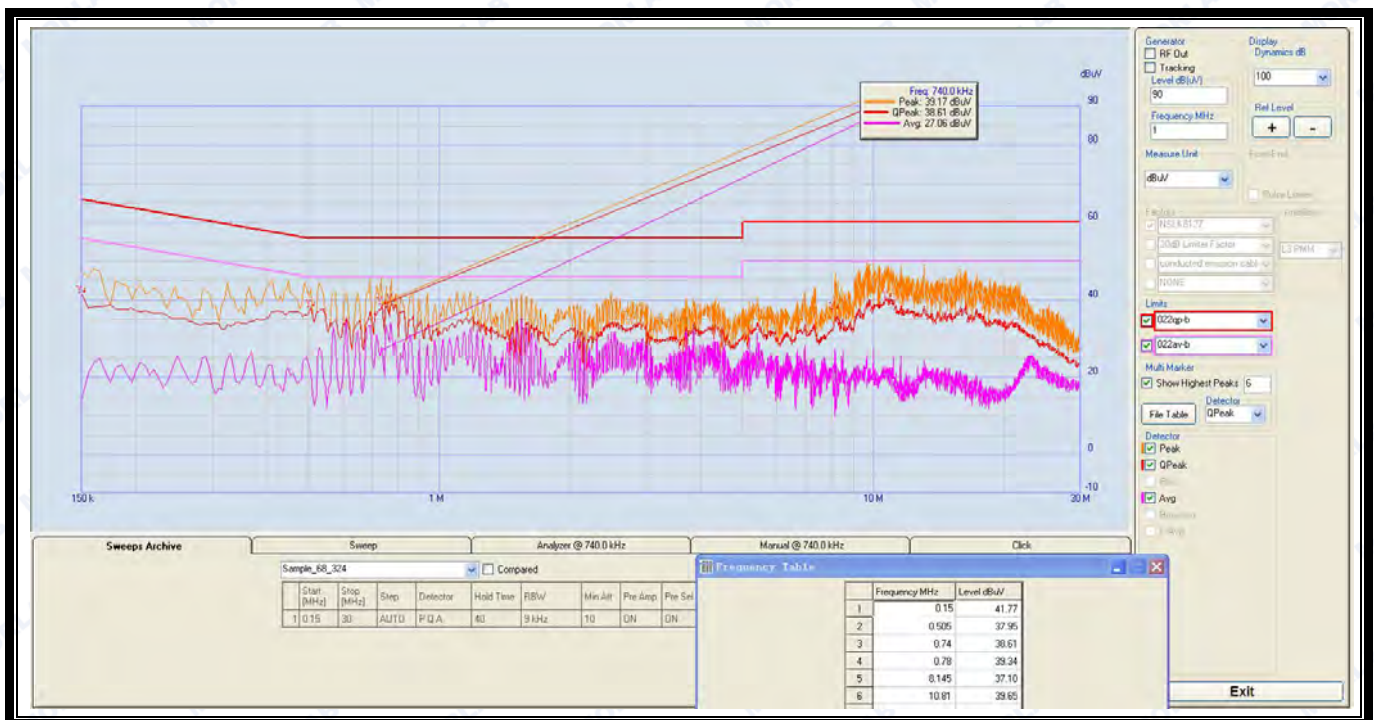
2.7.3 Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Note: All test modes are performed, only the worst case is recorded in this report.

A. Test setup:

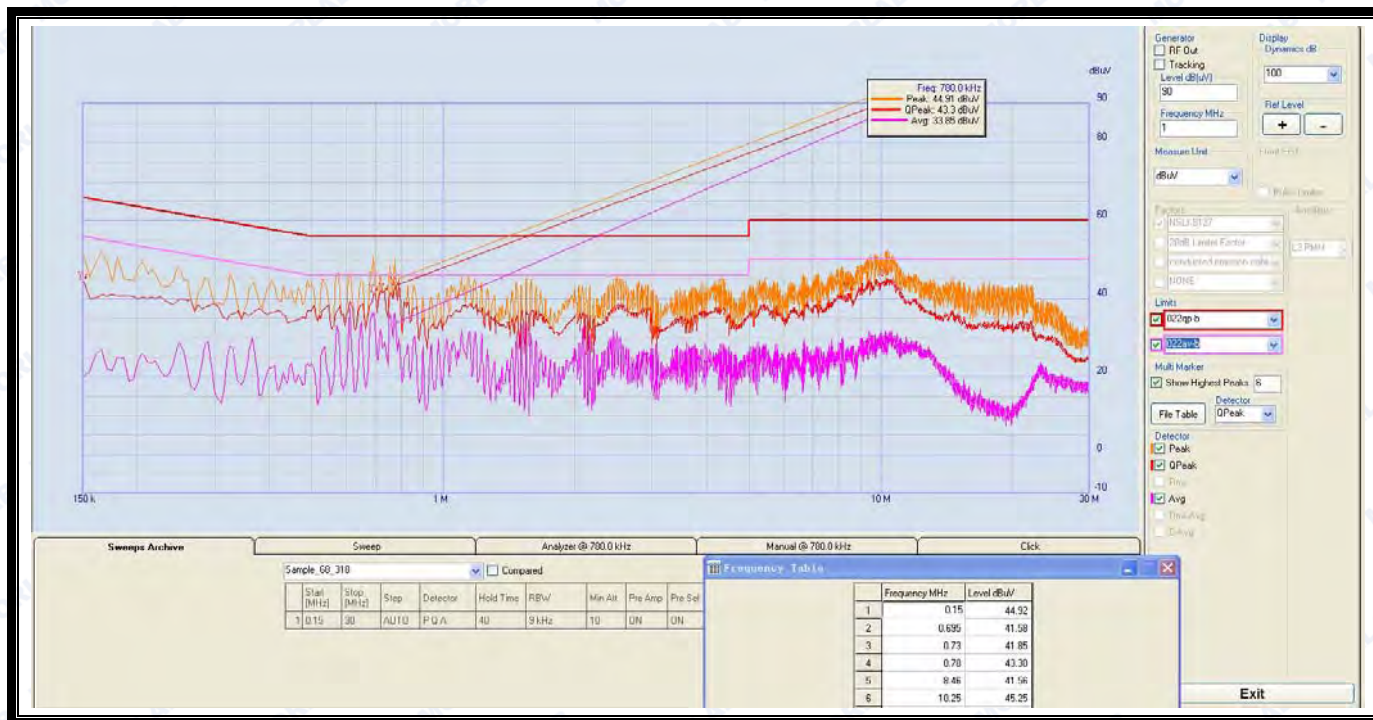
The EUT configuration of the emission tests is EUT + Link.

B. Test Plots:

(Plot A: L Phase)



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(Plot B: N Phase)



2.8 Radiated Emission

2.8.1 Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
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:

For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

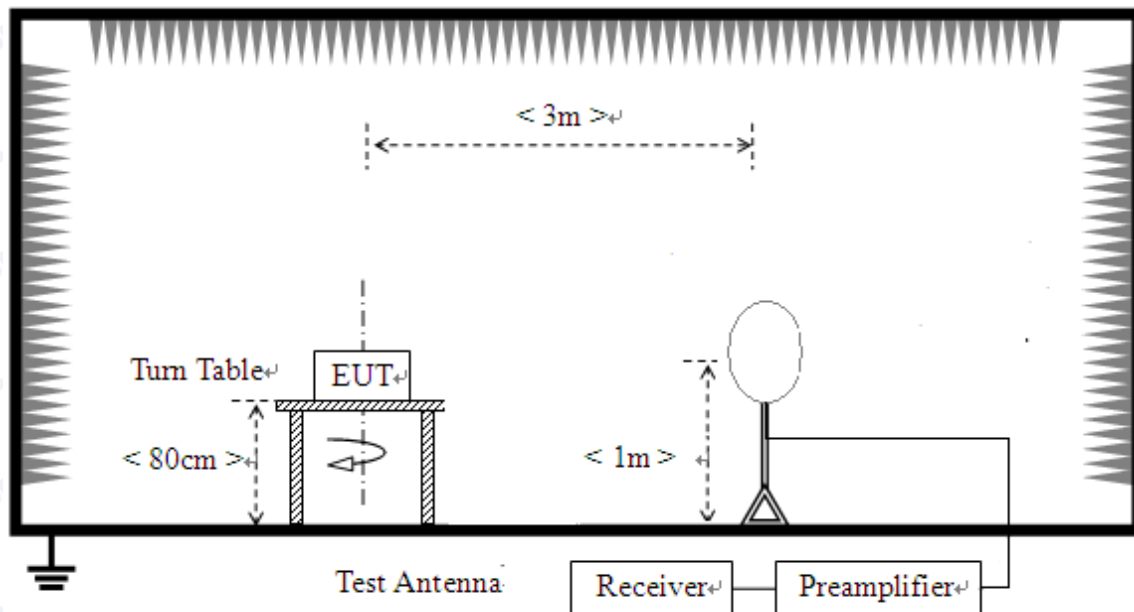
For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK)

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)

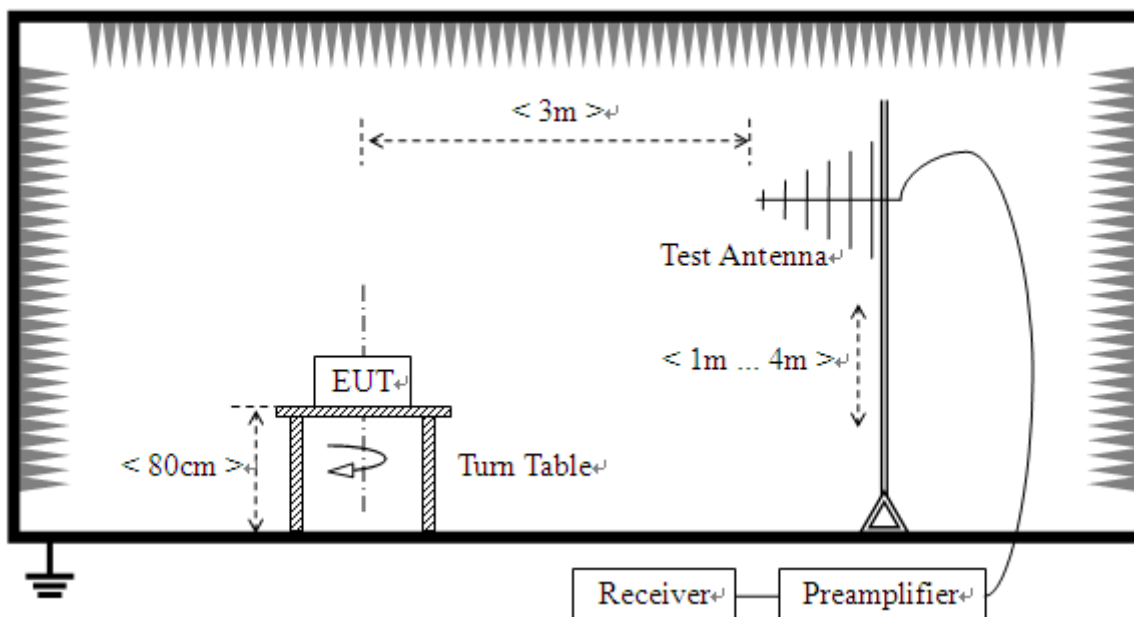
2.8.2 Test Description

A. Test Setup:

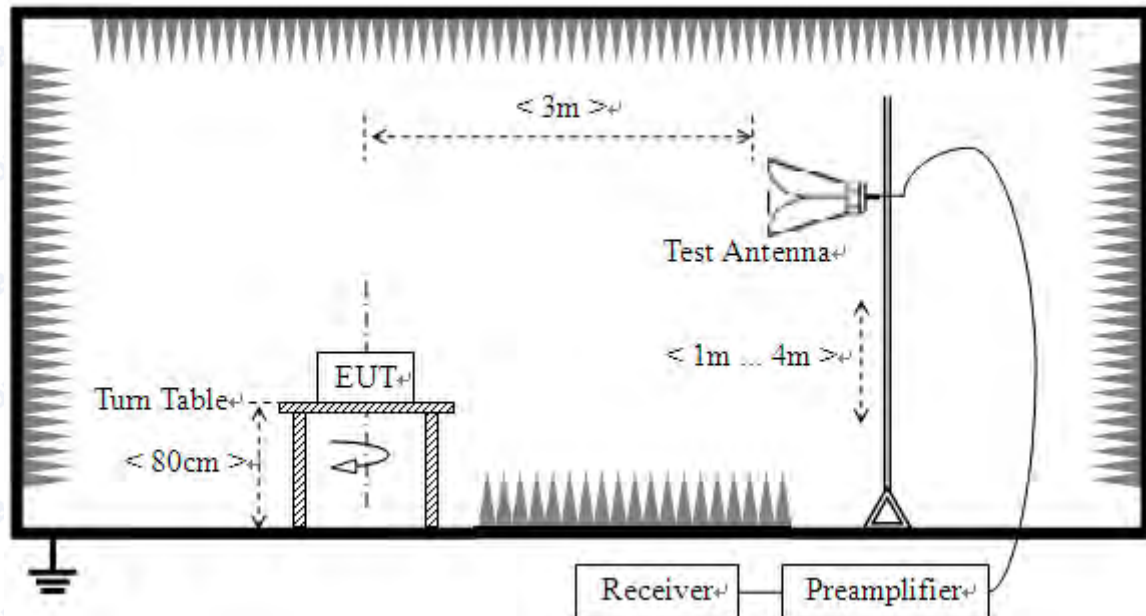
- 1) For radiated emissions from 9kHz to 30MHz



- 2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz



The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.4 (2009). The EUT was set-up on insulator 80cm above the Ground Plane. The set-up and test methods were according to ANSI C63.4.

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading

For the Test Antenna:

- In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

B. Equipments List:

Please reference ANNEX A(1.4).



2.8.3 Test Result

According to ANSI C63.4 selection 4.2.2, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

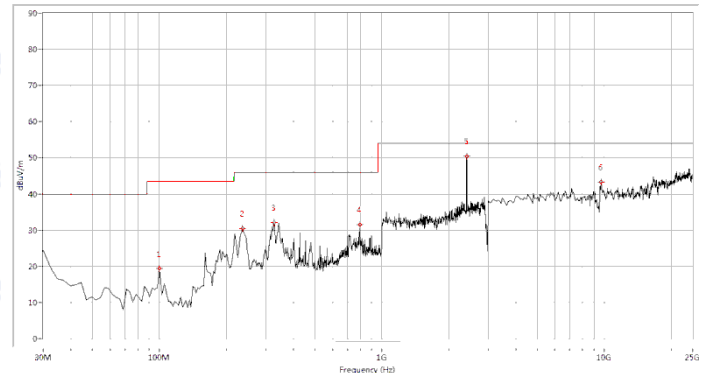
During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

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

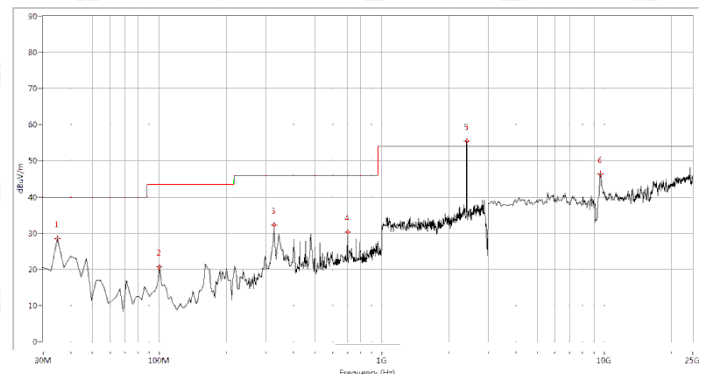
**2.8.3.1 802.11b Test mode****A. Test Plots for the Whole Measurement Frequency Range:**

Plots for Channel = 1



Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
100.150	19.45	N.A	N.A	N.A	43.5	N.A	Horizontal	PASS
235.611	30.39	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
327.531	32.14	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
799.227	31.49	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
2412.000	50.48	N.A	N.A	N.A	N.A	N.A	Horizontal	N.A
9693.267	43.22	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



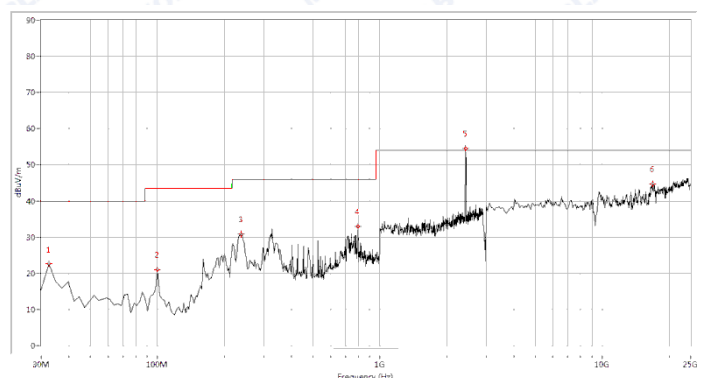
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
34.838	28.45	N.A	N.A	N.A	40.0	N.A	Vertical	PASS
100.150	20.69	N.A	N.A	N.A	43.5	N.A	Vertical	PASS
327.531	32.31	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
700.050	30.30	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
2412.000	55.42	N.A	N.A	N.A	N.A	N.A	Vertical	N.A
9638.404	46.30	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



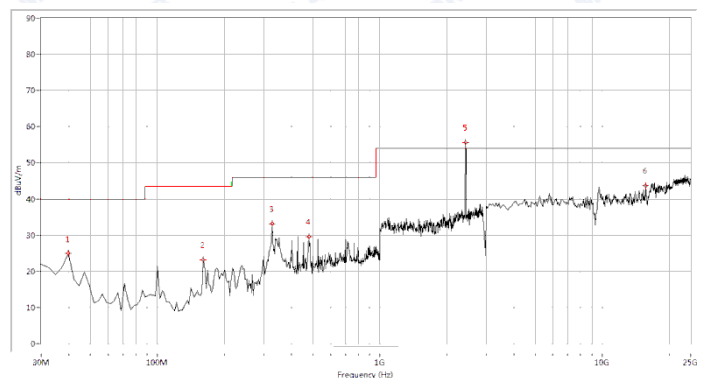
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Plot for Channel = 6



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
32.419	22.65	N.A	N.A	N.A	40.0	N.A	Horizontal	PASS
100.150	21.08	N.A	N.A	N.A	43.5	N.A	Horizontal	PASS
238.030	30.85	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
799.227	32.98	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
2437.000	54.48	N.A	N.A	N.A	N.A	N.A	Horizontal	N.A
16825.436	44.69	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

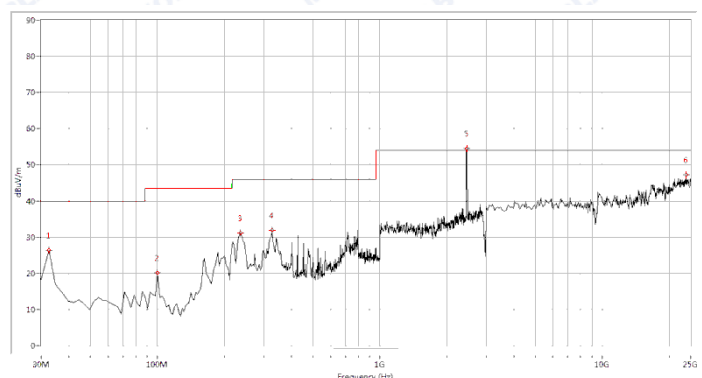


Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
39.676	25.02	N.A	N.A	N.A	40.0	N.A	Vertical	PASS
160.623	23.17	N.A	N.A	N.A	43.5	N.A	Vertical	PASS
327.531	33.12	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
479.925	29.54	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
2437.000	55.52	N.A	N.A	N.A	N.A	N.A	Vertical	N.A
15673.317	43.59	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

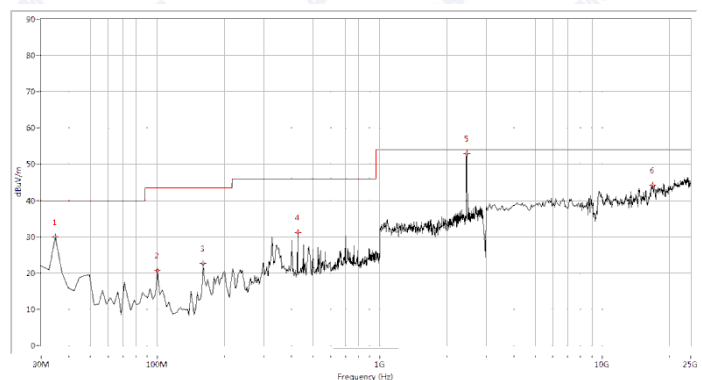


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Plot for Channel = 11

Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
32.419	26.30	N.A	N.A	N.A	40.0	N.A	Horizontal	PASS
100.150	20.12	N.A	N.A	N.A	43.5	N.A	Horizontal	PASS
235.611	31.17	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
327.531	31.98	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
2462.000	54.61	N.A	N.A	N.A	N.A	N.A	Horizontal	N.A
23793.017	47.27	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
34.838	29.95	N.A	N.A	N.A	40.0	N.A	Vertical	PASS
100.150	20.70	N.A	N.A	N.A	43.5	N.A	Vertical	PASS
160.623	22.62	N.A	N.A	N.A	43.5	N.A	Vertical	PASS
426.708	31.16	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
2462.000	52.86	N.A	N.A	N.A	N.A	N.A	Vertical	N.A
16825.436	44.22	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

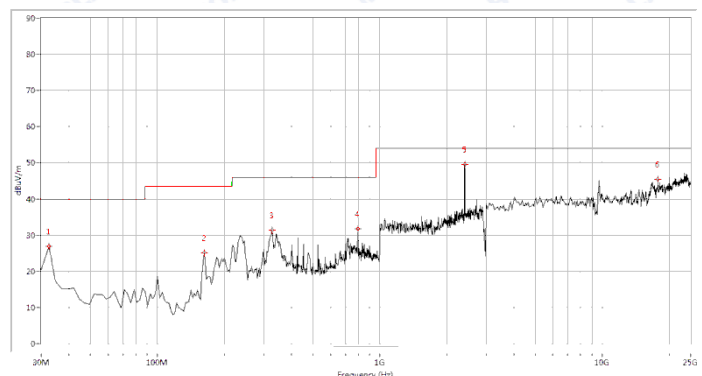


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2.8.3.2 802.11g Test mode

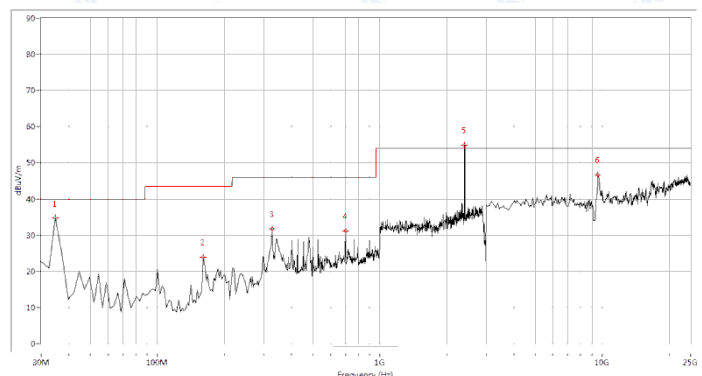
A. Test Plots for the Whole Measurement Frequency Range:

Plots for Channel = 1



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
32.419	26.84	N.A	N.A	N.A	40.0	N.A	Horizontal	PASS
163.042	25.21	N.A	N.A	N.A	43.5	N.A	Horizontal	PASS
327.531	31.36	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
794.389	31.76	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
2412.000	49.57	N.A	N.A	N.A	N.A	N.A	Horizontal	N.A
17812.968	45.43	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

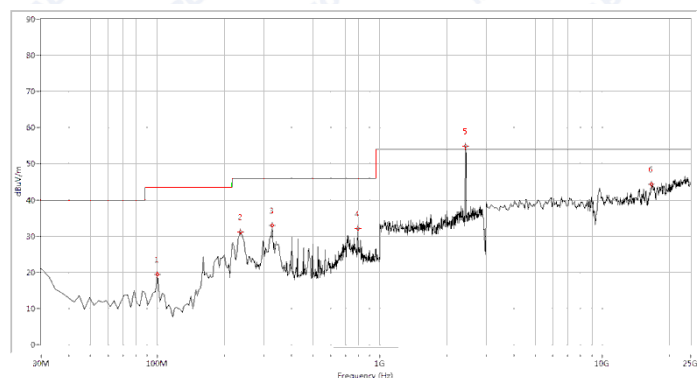


Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
34.838	34.66	N.A	N.A	N.A	40.0	N.A	Vertical	PASS
160.623	23.91	N.A	N.A	N.A	43.5	N.A	Vertical	PASS
327.531	31.66	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
700.050	31.16	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
2412.000	54.88	N.A	N.A	N.A	N.A	N.A	Vertical	N.A
9583.541	46.70	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

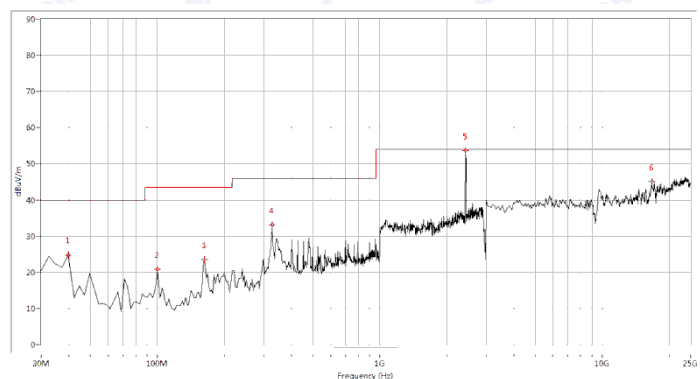


Plot for Channel = 6



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
100.150	19.40	N.A	N.A	N.A	43.5	N.A	Horizontal	PASS
235.611	31.16	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
327.531	32.94	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
799.227	32.10	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
2437.000	54.85	N.A	N.A	N.A	N.A	N.A	Horizontal	N.A
16660.848	44.30	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

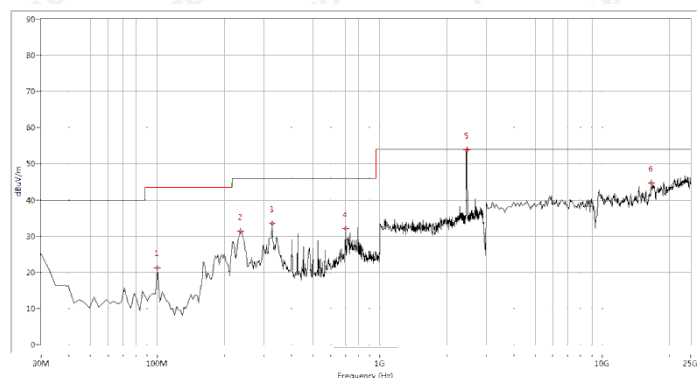


Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
39.676	24.86	N.A	N.A	N.A	40.0	N.A	Vertical	PASS
100.150	20.91	N.A	N.A	N.A	43.5	N.A	Vertical	PASS
163.042	23.46	N.A	N.A	N.A	43.5	N.A	Vertical	PASS
327.531	33.13	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
2437.000	53.67	N.A	N.A	N.A	N.A	N.A	Vertical	N.A
16715.711	45.11	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

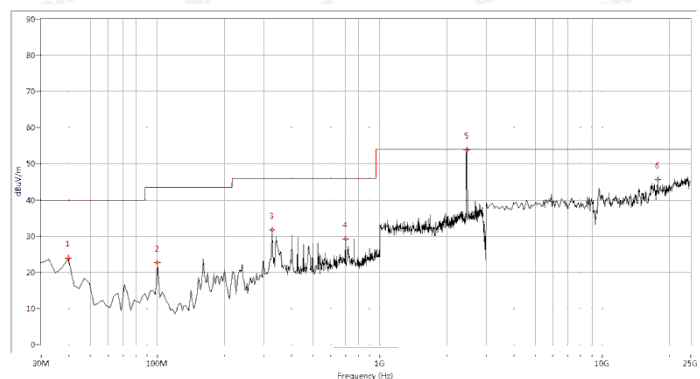


Plot for Channel = 11



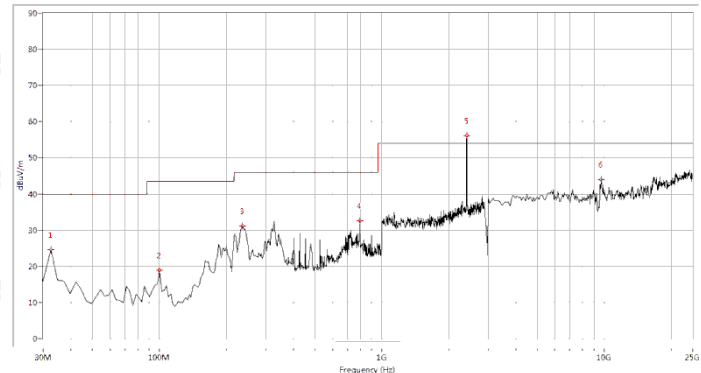
Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
100.150	21.16	N.A	N.A	N.A	43.5	N.A	Horizontal	PASS
235.611	31.42	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
327.531	33.58	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
700.050	32.16	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
2462.000	53.85	N.A	N.A	N.A	N.A	N.A	Horizontal	N.A
16660.848	44.72	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



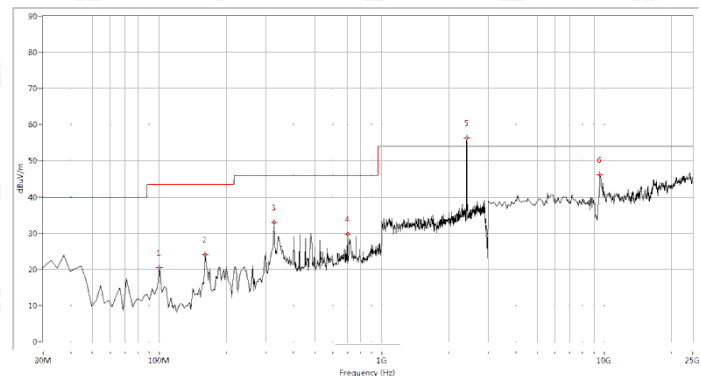
Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
39.676	23.80	N.A	N.A	N.A	40.0	N.A	Vertical	PASS
100.150	22.65	N.A	N.A	N.A	43.5	N.A	Vertical	PASS
327.531	31.64	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
700.050	29.21	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
2462.000	53.78	N.A	N.A	N.A	N.A	N.A	Vertical	N.A
17758.105	45.62	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

**2.8.3.3 802.11n-20MHz Test mode****A. Test Plots for the Whole Measurement Frequency Range:**Plots for Channel = 1

Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
32.419	24.55	N.A	N.A	N.A	40.0	N.A	Horizontal	PASS
100.150	18.82	N.A	N.A	N.A	43.5	N.A	Horizontal	PASS
235.611	31.10	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
799.227	32.56	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
2412.000	56.20	N.A	N.A	N.A	N.A	N.A	Horizontal	N.A
9693.267	43.99	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

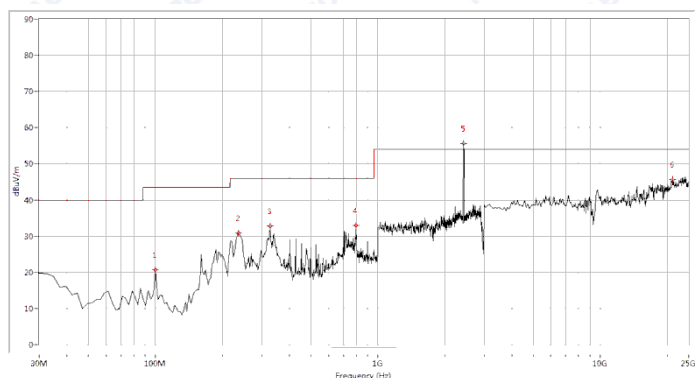


Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
100.150	20.50	N.A	N.A	N.A	43.5	N.A	Vertical	PASS
160.623	24.08	N.A	N.A	N.A	43.5	N.A	Vertical	PASS
327.531	32.89	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
700.050	29.72	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
2412.000	56.36	N.A	N.A	N.A	N.A	N.A	Vertical	N.A
9583.541	46.10	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

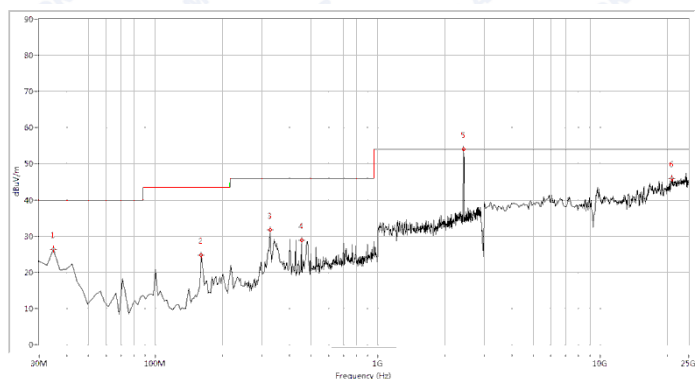


Plot for Channel = 6



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
100.150	20.63	N.A	N.A	N.A	43.5	N.A	Horizontal	PASS
235.611	30.90	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
327.531	32.86	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
799.227	32.96	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
2437.000	55.59	N.A	N.A	N.A	N.A	N.A	Horizontal	N.A
21214.464	45.67	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

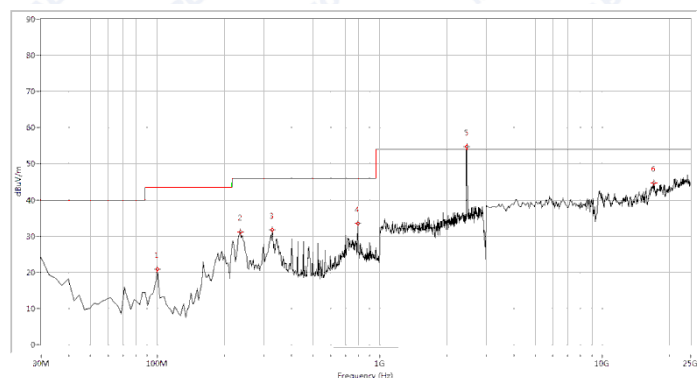


Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
34.838	26.40	N.A	N.A	N.A	40.0	N.A	Vertical	PASS
160.623	24.73	N.A	N.A	N.A	43.5	N.A	Vertical	PASS
327.531	31.78	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
453.317	28.89	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
2437.000	54.00	N.A	N.A	N.A	N.A	N.A	Vertical	N.A
20995.012	46.04	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

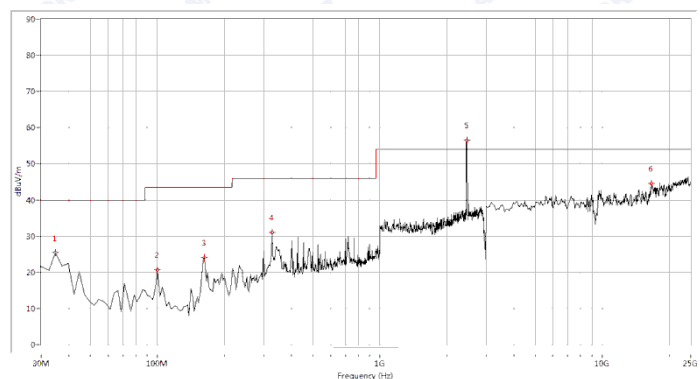


Plot for Channel = 11



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
100.150	20.85	N.A	N.A	N.A	43.5	N.A	Horizontal	PASS
235.611	31.13	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
327.531	31.67	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
794.389	33.47	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
2462.000	54.70	N.A	N.A	N.A	N.A	N.A	Horizontal	N.A
17099.751	44.73	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
34.838	25.43	N.A	N.A	N.A	40.0	N.A	Vertical	PASS
100.150	20.71	N.A	N.A	N.A	43.5	N.A	Vertical	PASS
163.042	24.15	N.A	N.A	N.A	43.5	N.A	Vertical	PASS
327.531	31.01	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
2462.000	56.43	N.A	N.A	N.A	N.A	N.A	Vertical	N.A
16605.985	44.58	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

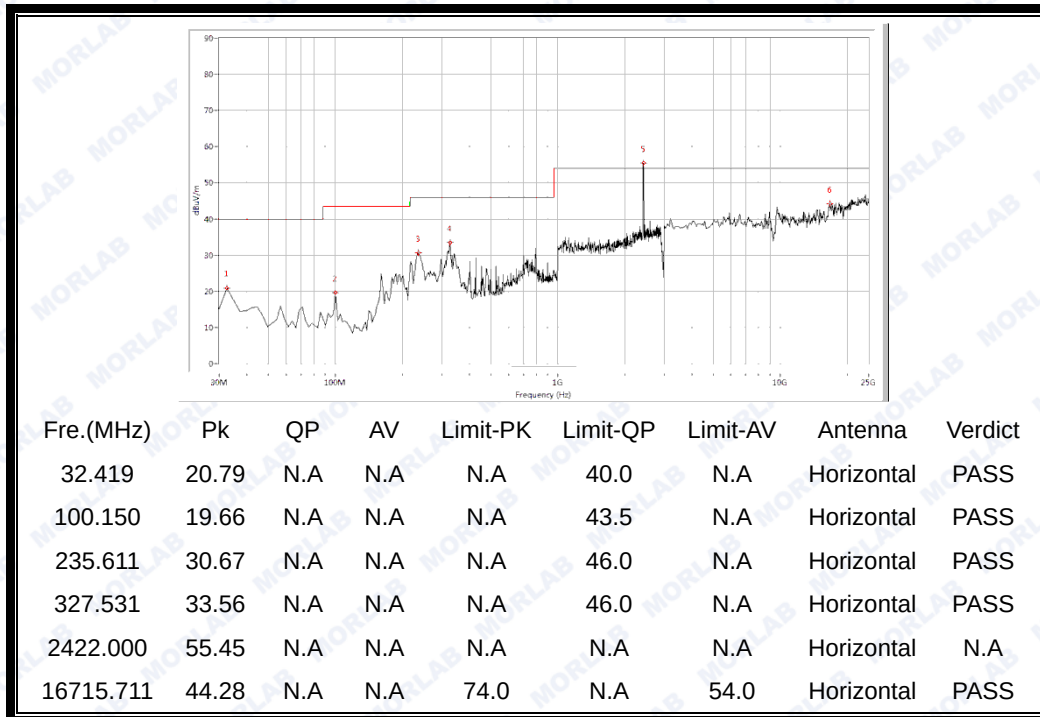
(Antenna Vertical, 30MHz to 25GHz)



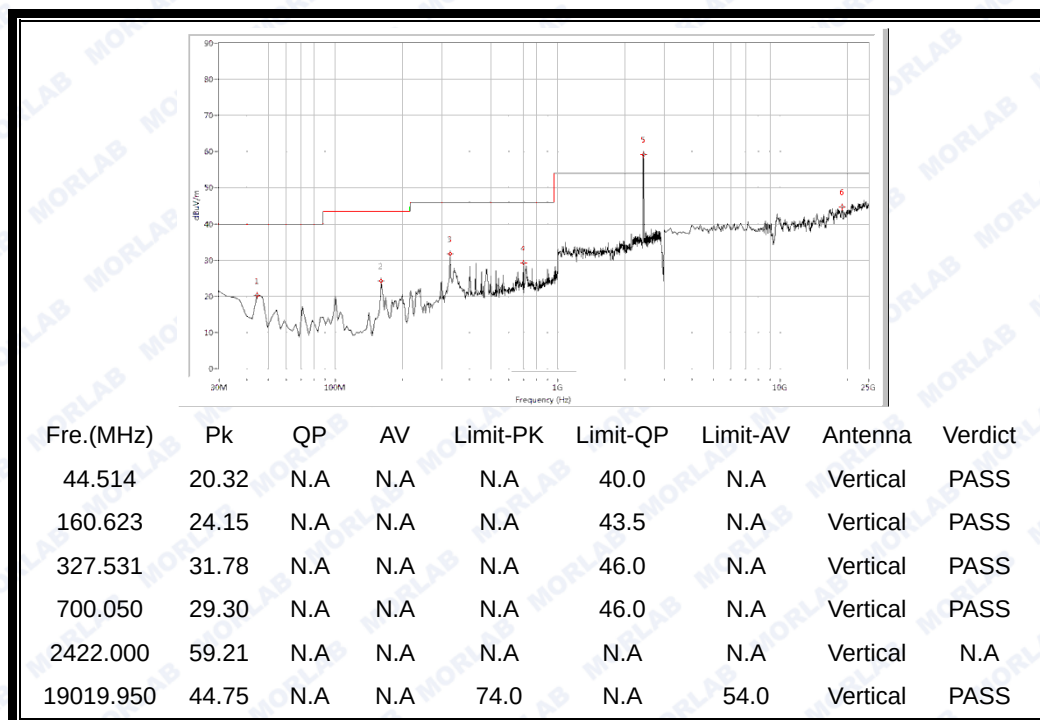
2.8.3.4 802.11n-40MHz Test mode

A. Test Plots for the Whole Measurement Frequency Range:

Plots for Channel = 3



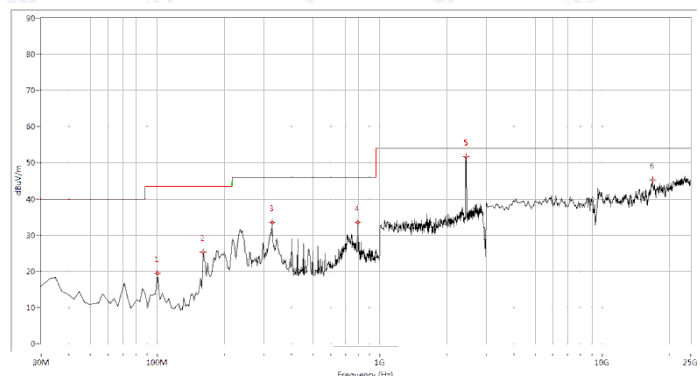
(Plot A.2: Antenna Horizontal, 30MHz to 25GHz)



(Plot A.3: Antenna Vertical, 30MHz to 25GHz)

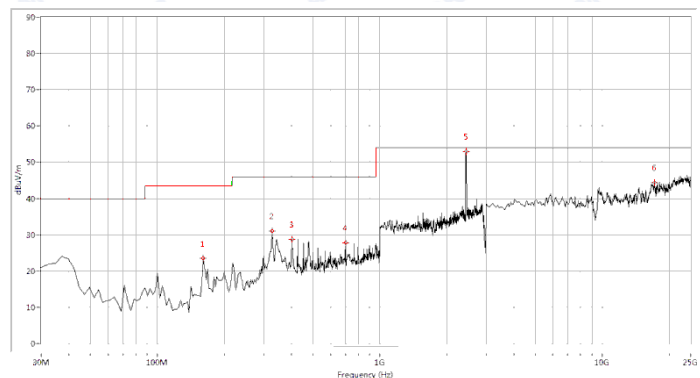


Plots for Channel = 6



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
100.150	19.45	N.A	N.A	N.A	43.5	N.A	Horizontal	PASS
160.623	25.27	N.A	N.A	N.A	43.5	N.A	Horizontal	PASS
327.531	33.52	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
794.389	33.54	N.A	N.A	N.A	46.0	N.A	Horizontal	PASS
2437.000	51.72	N.A	N.A	N.A	N.A	N.A	Horizontal	N.A
16825.436	45.23	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Plot B.2: Antenna Horizontal, 30MHz to 25GHz)

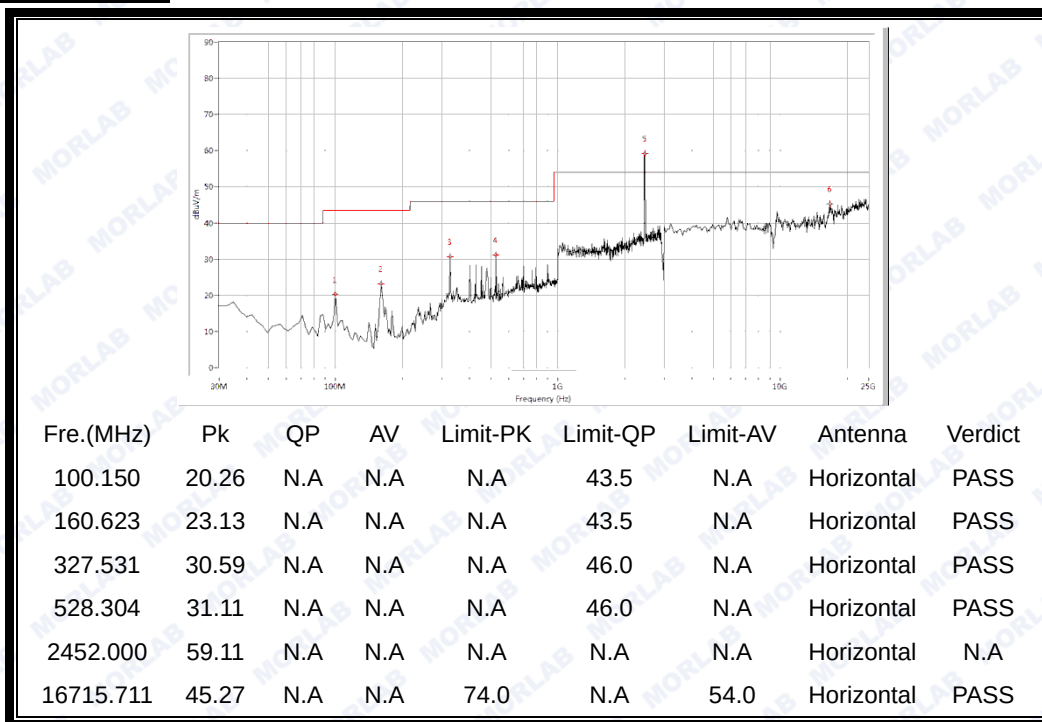


Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
160.623	23.45	N.A	N.A	N.A	43.5	N.A	Vertical	PASS
327.531	30.99	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
402.519	28.75	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
700.050	27.74	N.A	N.A	N.A	46.0	N.A	Vertical	PASS
2437.000	52.93	N.A	N.A	N.A	N.A	N.A	Vertical	N.A
17154.613	44.41	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

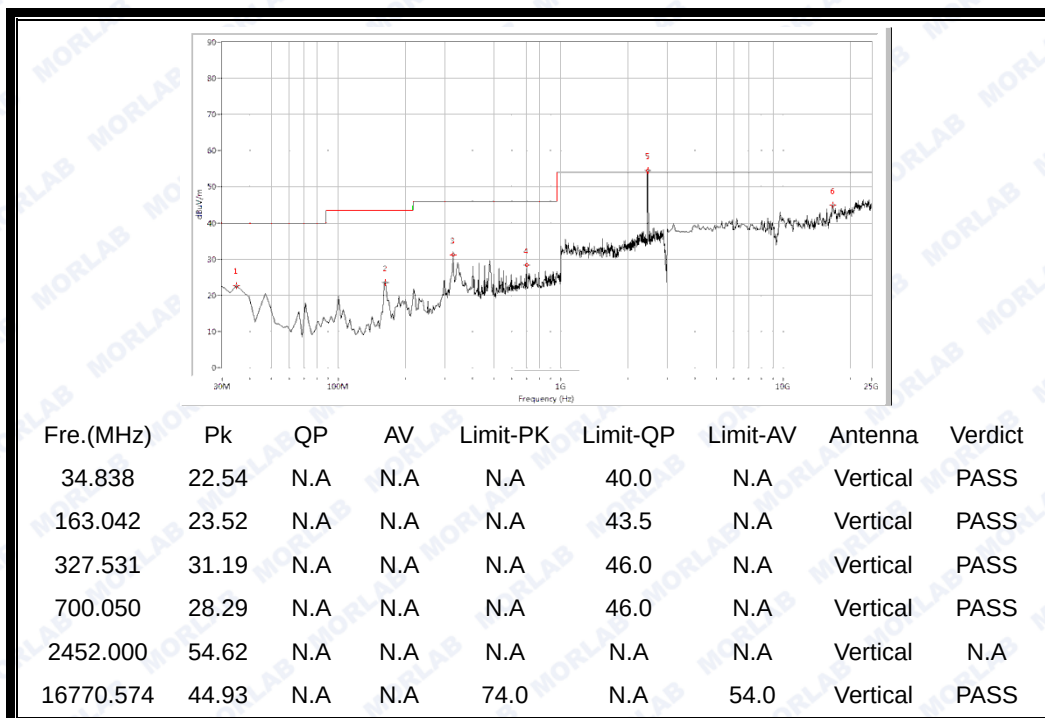
(Plot B.3: Antenna Vertical, 30MHz to 25GHz)



Plots for Channel = 9



(Plot C.2: Antenna Horizontal, 30MHz to 25GHz)



(Plot C.3: Antenna Vertical, 30MHz to 25GHz)



2.9 RF exposure evaluation

2.9.1 Requirement

According to § 1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of Commission's guideline.

2.9.2 Result

Please refer to SAR report.



ANNEX A GENERAL INFORMATION

1.1 Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, Guangdong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, Guangdong Province, P. R. China

1.3 Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.1, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10 2009, ANSI C63.4 2009 and CISPR Publication 22; the FCC registration number is 695796.



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1.4 Test Equipments Utilized

1.4.1 Conducted Test Equipments

Conducted Test Equipment

No.	Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
1	Spectrum Analyzer	MY45101810	E4407B	Agilent	2015.02.26	2016.02.25
2	Power Splitter	NW521	1506A	Weinschel	2015.02.26	2016.02.25
3	Attenuator 1	(n.a.)	10dB	Resnet	2015.02.26	2016.02.25
4	Attenuator 2	(n.a.)	3dB	Resnet	2015.02.26	2016.02.25
5	USB Wideband Power Sensor	MY52280010	U2021XA	Agilent	2015.02.26	2016.02.25
6	EXA Signal Analyzer	MY51440152	N9010A	Agilent	2015.02.26	2016.02.25
7	RF cable	CB01	RF01	Morlab	N/A	N/A
8	Coaxial cable	CB02	RF02	Morlab	N/A	N/A
9	SMA connector	CN01	RF03	HUBER-SUHNER	N/A	N/A

1.4.2 Conducted Emission Test Equipments

Conducted Emission Test Equipments

No.	Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
1	Receiver	US44210471	E7405A	Agilent	2015.02.26	2016.02.25
2	LISN	812744	NSLK 8127	Schwarzbeck	2015.02.26	2016.02.25
3	Service Supplier	100448	CMU200	R&S	2015.02.26	2016.02.25
4	Pulse Limiter (20dB)	9391	VTSD 9561-D	Schwarzbeck	2015.02.26	2016.02.25
5	Coaxial cable(BNC)	CB01	EMC01	Morlab	N/A	N/A



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1.4.3 Radiated Test Equipments

Radiated Test Equipments						
No.	Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal.Due Date
1	System Simulator	100448	CMU200	R&S	2015.02.26	2016.02.25
2	Receiver	US44210471	E7405A	Agilent	2015.02.26	2016.02.25
3	Test Antenna - Bi-Log	9163-274	9m*6m*6m	Albatross	2015.02.26	2016.02.25
4	Test Antenna - Horn	9120D-963	VULB 9163	Schwarzbeck	2015.02.26	2016.02.25
5	Test Antenna - Horn	71688	BBHA 9120D	Schwarzbeck	2015.02.26	2016.02.25
6	Test Antenna - Loop	1519-022	HL050S7	R&S	2015.02.26	2016.02.25
7	Reject Filter	(n.a.)	BRM50702	Micro-Tronics	2015.02.26	2016.02.25
8	Coaxial cable (N male)	CB02	EMC02	Morlab	N/A	N/A
9	Coaxial cable (N male)	CB03	EMC03	Morlab	N/A	N/A

1.4.4 Climate Chamber

Climate Chamber						
No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Climate Chamber	2004012	HL4003T	Yinhe	2015.02.26	2016.02.25

1.4.5 Vibration Table

Vibration Table						
No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Vibration Table	N/A	ACT2000-S015L	CMI-COM	2015.02.26	2016.02.25

1.4.6 Anechoic Chamber

Anechoic Chamber						
No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Anechoic Chamber	N/A	9m*6m*6m	Albatross	2015.02.26	2016.02.25

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