

FCC Test Report

Product Name : WIFI Gateway
Trade Name : BOSCH
Model No. : 8738714760 (WIFI Dongle UART 3.3V)
FCC ID. : RTG8738714765

Applicant : BOSCH TERMOTECNOLOGIA S.A.
Address : EN 16 - Km 3.7 3800-533 Cacia Aveiro Portugal

Date of Receipt : Aug. 21, 2017
Issued Date : May 16, 2019
Report No. : 1780393R-RFUSP02V00
Report Version : V2.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date : May 16, 2019

Report No. : 1780393R-RFUSP02V00



Product Name : WIFI Gateway
Applicant : BOSCH TERMOTECNOLOGIA S.A.
Address : EN 16 - Km 3.7 3800-533 Cacia Aveiro Portugal
Manufacturer : BOSCH TERMOTECNOLOGIA S.A.
Model No. : 8738714760 (WIFI Dongle UART 3.3V)
FCC ID. : RTG8738714765
EUT Voltage : DC 3.3V
Testing Voltage : DC 3.3V
Trade Name : BOSCH
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2017
ANSI C63.10: 2013
Laboratory Name : Hsin Chu Laboratory
Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township,
Hsinchu County 310, Taiwan, R.O.C.
TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result : Complied

Documented By

:



(Demi Chang / Senior Engineering Adm. Specialist)

Tested By

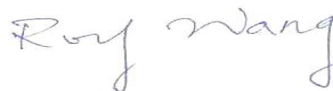
:



(Elwin Lin / Assistant Engineer)

Approved By

:



(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
1780393R-RFUSP02V00	V2.0	Initial issue of report	May 16, 2019

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1. General Information

1.1. EUT Description

Product Name	WIFI Gateway	
Trade Name	BOSCH	
Model No.	8738714760 (WIFI Dongle UART 3.3V)	
Frequency Range/ Channel Number	IEEE 802.11b/g IEEE 802.11n (20MHz)	2412~2462MHz / 11 Channels
Type of Modulation	IEEE 802.11b	Direct Sequence Spread Spectrum
	IEEE 802.11g/n	Orthogonal Frequency Division Multiplexing
Data Speed	IEEE 802.11b	1, 2, 5.5, 11Mbps
	IEEE 802.11g	6, 9, 12, 18, 24, 36, 48, 54Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0~MCS 7 and bandwidth defined in 802.11n

Antenna Information	
Antenna Type	Integral Antenna
Antenna Gain	1.9dBi

ANT-TX / RX & Bandwidth

ANT-TX / RX	TX	RX
Mode/ Channel Bandwidth	20MHz	20MHz
IEEE802.11b	✓	✓
IEEE802.11g	✓	✓
IEEE802.11n	✓	✓

IEEE 802.11n

MCS Index	Modulation	R	N _{BPSCS}	N _{CBPS}		N _{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI	
								20MHz	40MHz	20MHz	40MHz
0	BPSK	1/2	1	52	108	26	54	6.5	13.5	7.2	15.0
1	QPSK	1/2	2	104	216	52	108	13.0	27.0	14.4	30.0
2	QPSK	3/4	2	104	216	78	162	19.5	40.5	21.7	45.0
3	16-QAM	1/2	4	208	432	104	216	26.0	54.0	28.9	60.0
4	16-QAM	3/4	4	208	432	156	324	39.0	81.0	43.3	90.0
5	64-QAM	2/3	6	312	648	208	432	52.0	108.0	57.8	120.0
6	64-QAM	3/4	6	312	648	234	486	58.5	121.5	65.0	135.0
7	64-QAM	5/6	6	312	648	260	540	65.0	135.0	72.2	150.0

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 1 – MCS parameters for TX Antenna number = 1

Symbol	Explanation
R	Code rate
N _{BPSC}	Number of coded bits per single carrier
N _{CBPS}	Number of coded bits per symbol
N _{DBPS}	Number of data bits per symbol
GI	guard interval

IEEE 802.11b/g & IEEE 802.11n (20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
001	2412 MHz	002	2417 MHz	003	2422 MHz	004	2427 MHz
005	2432 MHz	006	2437 MHz	007	2442 MHz	008	2447 MHz
009	2452 MHz	010	2457 MHz	011	2462 MHz		

Note:

1. This device is a WIFI Gateway including 2.4GHz b/g/n (1x1) transmitting and receiving function.
2. Regards to the frequency band operation; the lowest 、 middle and highest frequency of channel were selected to perform the test, and then shown on this report.

1.2. Test Mode

DEKRA has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

Final Test Mode
Mode 1: Transmit

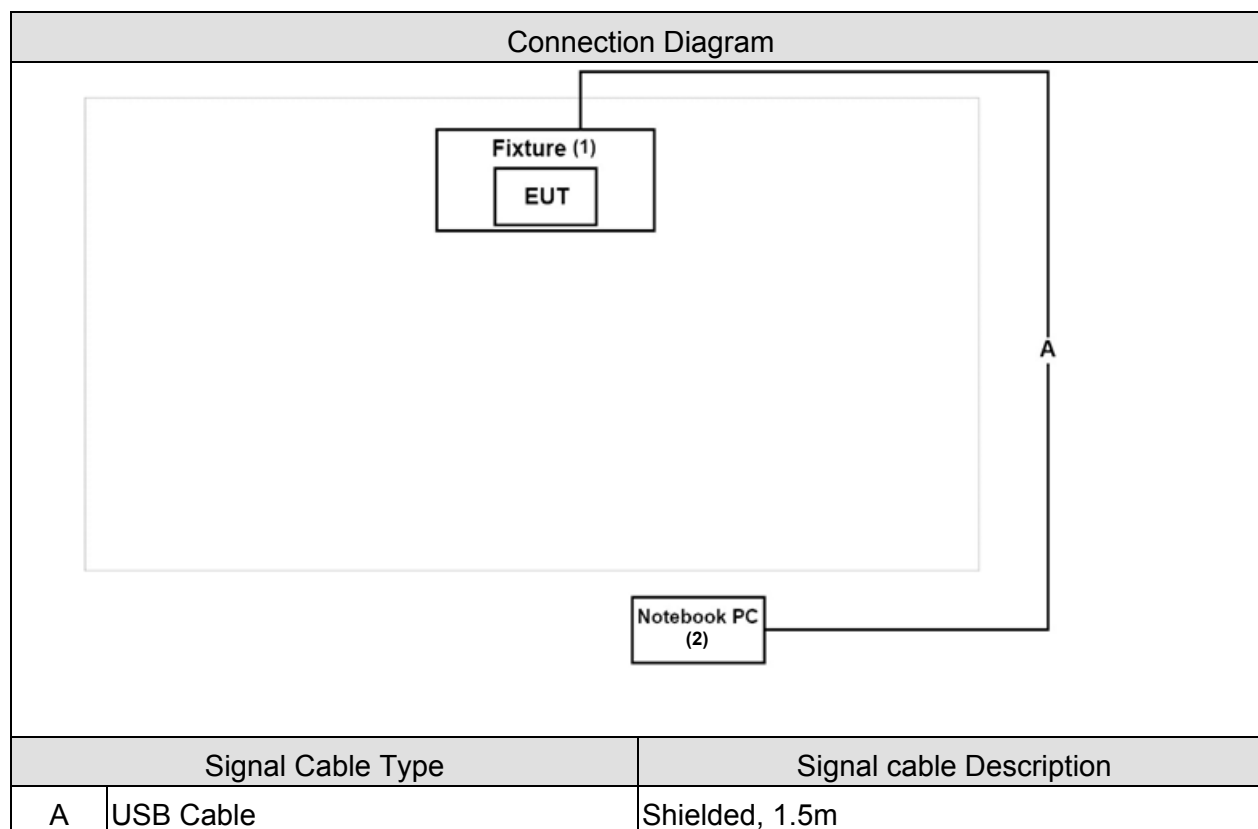
Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11n(20MHz)	6	0	N/A
Peak Power Output	11b/g	1/ 6/ 11	0	Complies
	11n(20MHz)	1/ 6/ 11	0	Complies
Radiated Emission	11b/g	1/ 6/ 11	0	Complies
	11n(20MHz)	1/ 6/ 11	0	Complies
RF antenna conducted test	11b/g	1/ 6/ 11	0	Complies
	11n(20MHz)	1/ 6/ 11	0	Complies
Radiated Emission Band Edge	11b/g	1/ 6/ 11	0	Complies
	11n(20MHz)	1/ 6/ 11	0	Complies
DTS Bandwidth	11b/g	1/ 6/ 11	0	Complies
	11n(20MHz)	1/ 6/ 11	0	Complies
Occupied Bandwidth	11b/g	1/ 6/ 11	0	Complies
	11n(20MHz)	1/ 6/ 11	0	Complies
Power Density	11b/g	1/ 6/ 11	0	Complies
	11n(20MHz)	1/ 6/ 11	0	Complies

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Fixture	BOSCH	--	--	--	--
2	Notebook PC	Lenovo	B590	WB15330077	DoC	Non-Shielded, 1.8m, one ferrite core bonded

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the test program "Radio Tool GUI".
3	Configure the test mode, the test channel, and the data rate.
4	Press "Start TX" to start the continuous transmitting.
5	Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual	Test Site
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	20°C	--
Humidity (%RH)		25 - 75	50%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output	15 - 35	25°C	3
Humidity (%RH)		25 - 75	45%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission	15 - 35	25°C	2
Humidity (%RH)		25 - 75	65%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	25°C	3
Humidity (%RH)		25 - 75	45%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Band Edge	15 - 35	25°C	2
Humidity (%RH)		25 - 75	48%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 DTS Bandwidth	15 - 35	25°C	3
Humidity (%RH)		25 - 75	45%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth	15 - 35	25°C	3
Humidity (%RH)		25 - 75	45%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Power Density	15 - 35	25°C	3
Humidity (%RH)		25 - 75	45%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	

Note: Test site information refers to Laboratory Information.

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site :

<http://www.dekra.com.tw/english/about/certificates.aspx?bval=5>

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site : http://www.dekra.com.tw/index_en.aspx

If you have any comments, Please don't hesitate to contact us. Our test sites as below:

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2. Conducted Emission

2.1. Test Equipment

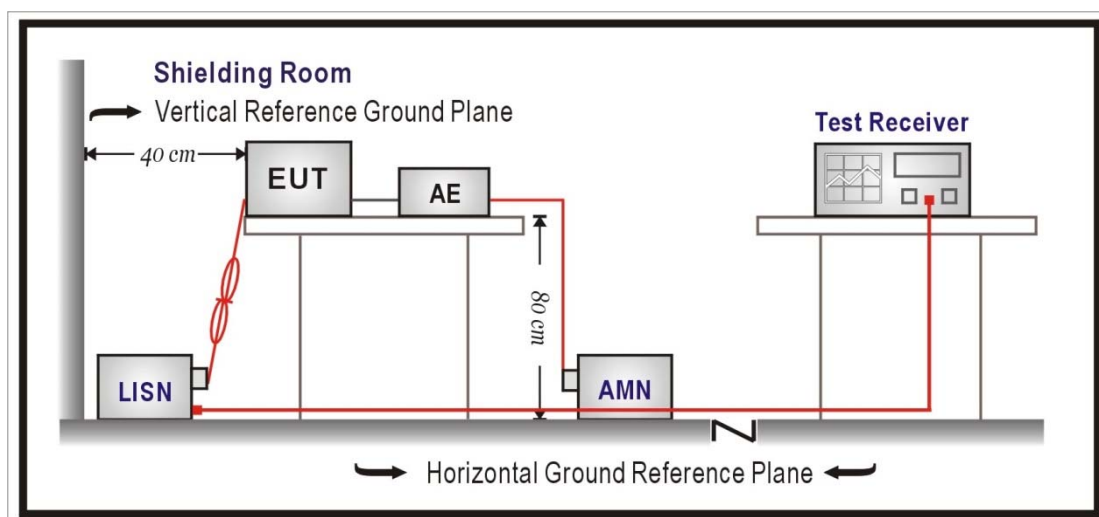
The following test equipments are used during the test:

Conducted Emission / SR2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2017/02/06	2018/02/05
Test Receiver	R&S	ESCS 30	836858/022	2017/04/12	2018/04/11
LISN	R&S	ENV216	100092	2017/07/31	2018/07/30

Note: All equipments that need to calibrate are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency (MHz)	QP	AV
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remark: In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.207: 2017

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

The device voltage is DC, Do not need test this time.

3. Peak Power Output

3.1. Test Equipment

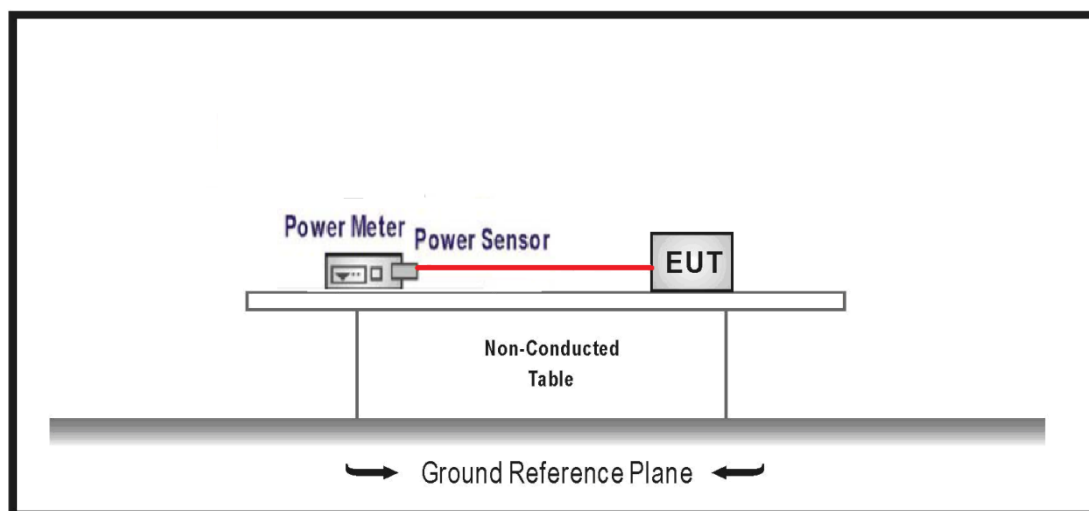
The following test equipments are used during the test:

Peak Power Output / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Power Meter	Agilent	N1911A	MY45101353	2016/09/30	2017/09/29
Power Sensor	Agilent	N1921A	MY45241670	2016/09/29	2017/09/28
USB Power Sensor	Keysight	U2021XA	MY54070005	N/A	N/A

Note: All equipments that need to calibrate are with calibration period of 1 year.

3.2. Test Setup



3.3. Test procedures

The EUT was tested according to DTS test procedure of KDB558074 measurement to FCC 47CFR 15.247 requirements.

3.4. Limits

The maximum peak power shall be less 1 Watt.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2017

3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

Product	WIFI Gateway		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2017/09/26	Test Site	SR10-H

IEEE 802.11b (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	17.020	≤ 30
6	2437	16.760	≤ 30
11	2462	16.500	≤ 30

The worst emission of data rate is 1Mbps

Peak Power Output (dBm)						
Channel No	Frequency (MHz)	Data Rate (Mbps)				Required Limit
		1	2	5.5	11	
1	2412	17.020	--	--	--	≤ 30
6	2437	16.760	16.530	16.370	16.010	≤ 30
11	2462	16.500	--	--	--	≤ 30

Product	WIFI Gateway		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2017/09/26	Test Site	SR10-H

IEEE 802.11g (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	18.210	≤ 30
6	2437	18.710	≤ 30
11	2462	18.640	≤ 30

The worst emission of data rate is 6Mbps

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
1	2412	18.210	--	--	--	--	--	--	≤ 30
6	2437	18.710	18.520	18.440	18.300	18.050	17.850	17.660	≤ 30
11	2462	18.640	--	--	--	--	--	--	≤ 30

Product	WIFI Gateway		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2017/09/26	Test Site	SR10-H

IEEE 802.11n 20 (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	18.220	≤ 30
6	2437	18.640	≤ 30
11	2462	18.470	≤ 30

The worst emission of data rate is MCS0

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		0	1	2	3	4	5	6	7	
1	2412	18.220	--	--	--	--	--	--	--	≤ 30
6	2437	18.640	18.390	18.210	17.940	17.860	17.700	17.580	17.450	≤ 30
11	2462	18.470	--	--	--	--	--	--	--	≤ 30

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

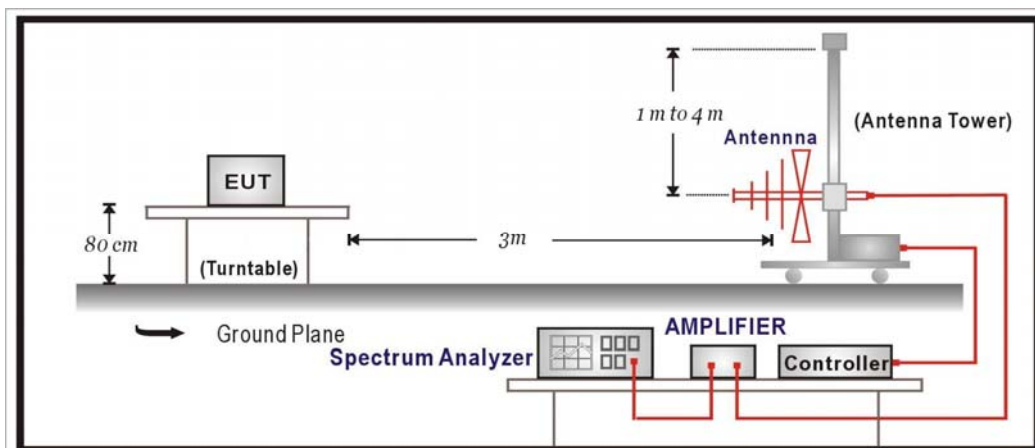
Radiated Emission / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2016/11/28	2017/11/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/23	2018/01/22
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12
Bilog Antenna	Teseq	CBL6112D	23191	2017/06/28	2018/06/27
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2017/06/14	2018/06/13
Horn Antenna	Schwarzbeck	BBHA 9170	202	2017/02/15	2018/02/14
Pre-Amplifier	RF Bay Inc.	LNA-1330	12162511	2017/03/09	2018/03/08
Pre-Amplifier	EMCI	EMCI 1830I	980366	2017/01/23	2018/01/22
Pre-Amplifier	MITEQ	JS44-45-8P	2014754	2016/12/26	2017/12/25

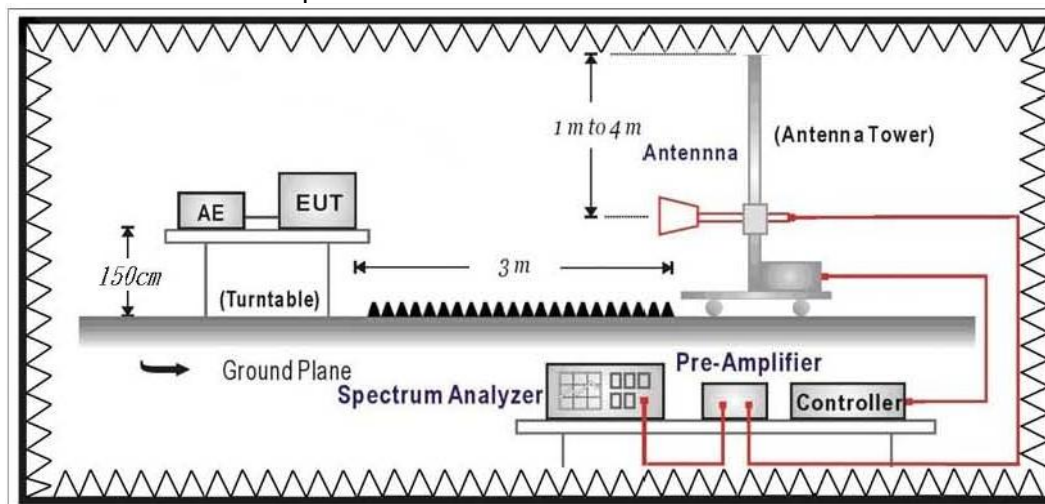
Note: All equipments that need to calibrate are with calibration period of 1 year.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency (MHz)	dBuV/m	dBuV/m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks: $E \text{ field strength (dBuV/m)} = 20 \log E \text{ field strength (uV/m)}$

4.4. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT and its simulators are placed on a turn table which is 1.5 meter above ground (under 1GHz) or 1.5 meter above ground (above 1GHz). The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10 on radiated measurement.

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2017

4.6. Uncertainty

The measurement uncertainty

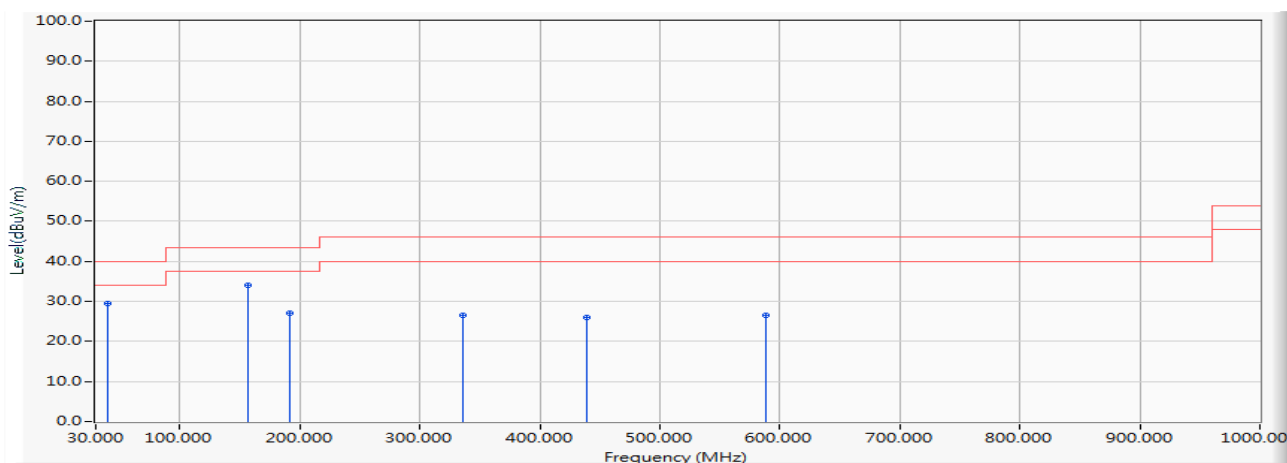
30MHz~1GHz as $\pm 3.43\text{dB}$

1GHz~26.5Ghz as $\pm 3.65\text{dB}$

4.7. Test Result

30MHz-1GHz Spurious

Site : CB2-H	Time : 2017/09/10
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2437MHz

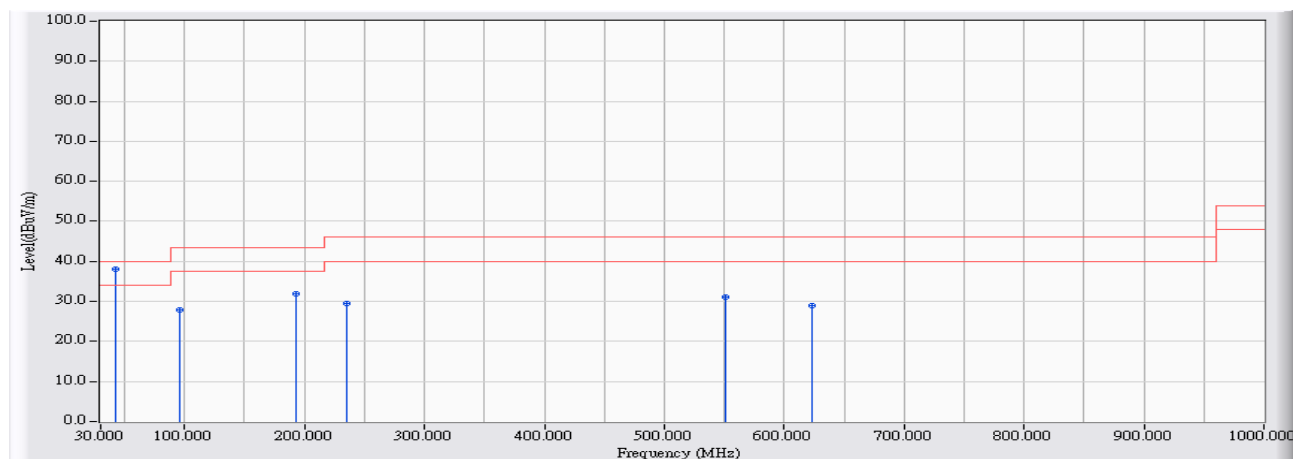


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		39.408	-12.717	42.162	29.445	-10.555	40.000	QUASIPeAK
2	*	156.281	-22.317	56.498	34.180	-9.320	43.500	QUASIPeAK
3		191.877	-23.664	50.801	27.138	-16.362	43.500	QUASIPeAK
4		336.004	-19.144	45.681	26.537	-19.463	46.000	QUASIPeAK
5		439.299	-16.655	42.587	25.933	-20.067	46.000	QUASIPeAK
6		588.179	-14.368	40.838	26.470	-19.530	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2 FCC EFS S2_30M-1GHz_1116 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2437MHz



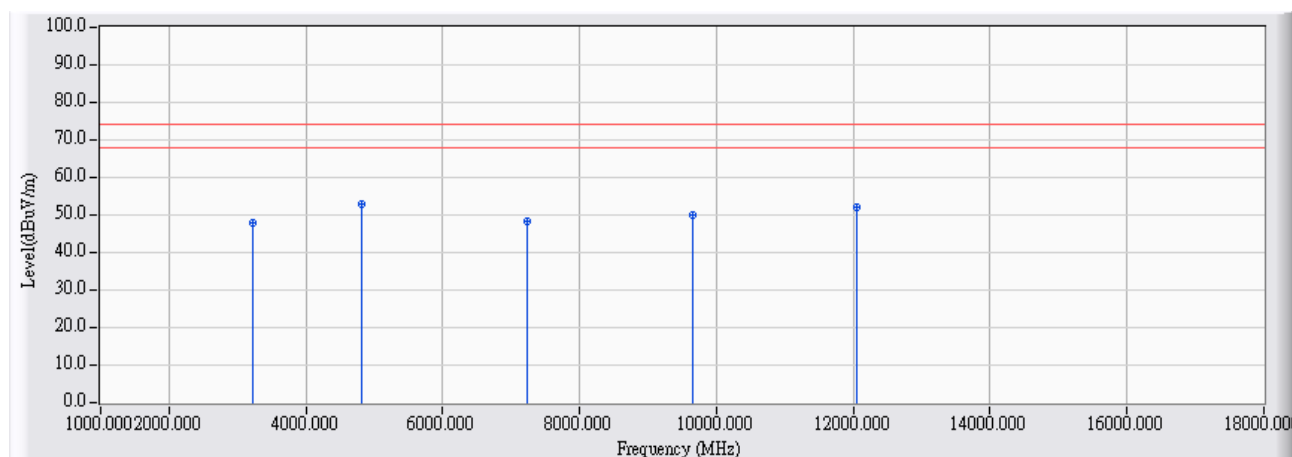
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	42.124	-15.616	53.702	38.087	-1.913	40.000	QUASIPeAK
2		95.953	-23.209	51.026	27.817	-15.683	43.500	QUASIPeAK
3		192.362	-23.656	55.435	31.780	-11.720	43.500	QUASIPeAK
4		234.650	-21.651	51.225	29.574	-16.426	46.000	QUASIPeAK
5		551.032	-14.989	46.065	31.076	-14.924	46.000	QUASIPeAK
6		622.902	-14.256	43.169	28.914	-17.086	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Above 1GHz Spurious

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2412MHz

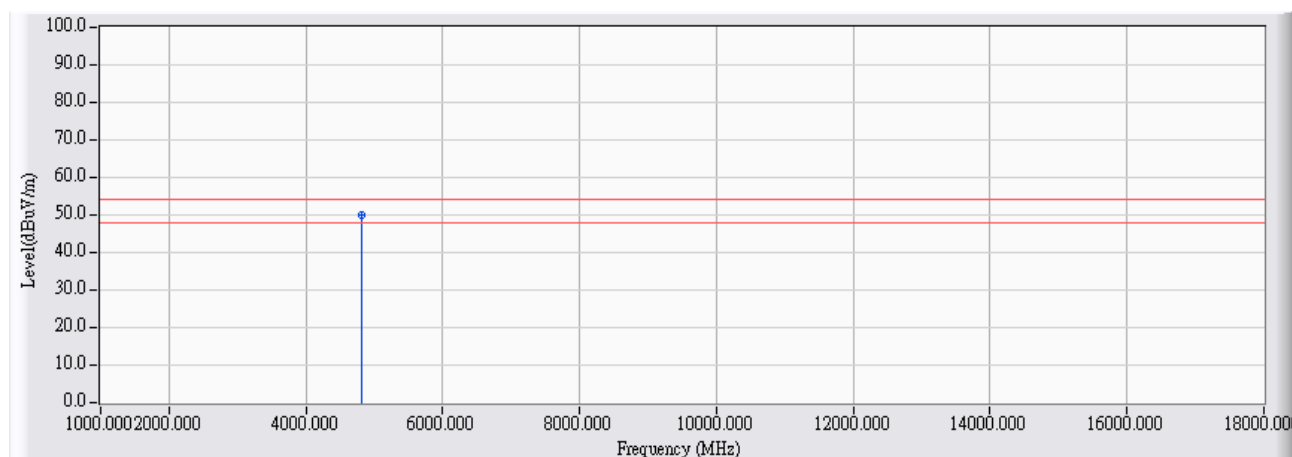


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3215.821	-6.773	54.550	47.778	-26.222	74.000	PEAK
2	*	4823.933	-0.219	53.240	53.021	-20.979	74.000	PEAK
3		7238.395	7.125	41.100	48.225	-25.775	74.000	PEAK
4		9647.705	12.588	37.250	49.838	-24.162	74.000	PEAK
5		12058.804	15.343	36.620	51.962	-22.038	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2412MHz

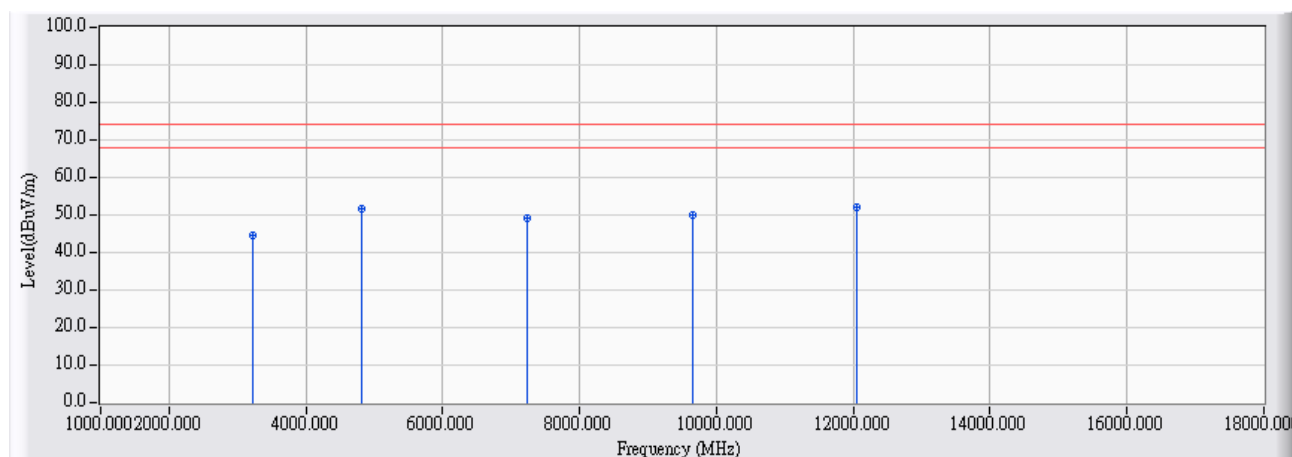


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4823.933	-0.219	50.090	49.871	-4.129	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2412MHz

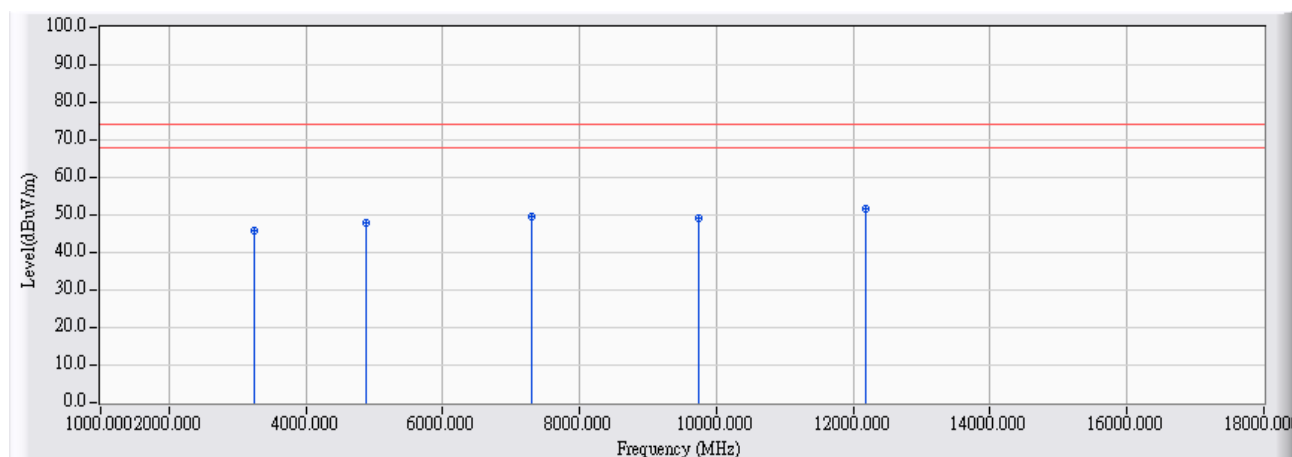


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3216.167	-6.772	51.520	44.748	-29.252	74.000	PEAK
2		4824.025	-0.219	52.030	51.811	-22.189	74.000	PEAK
3		7237.176	7.126	42.100	49.226	-24.774	74.000	PEAK
4		9649.662	12.583	37.350	49.933	-24.067	74.000	PEAK
5	*	12056.684	15.350	36.580	51.930	-22.070	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2437MHz

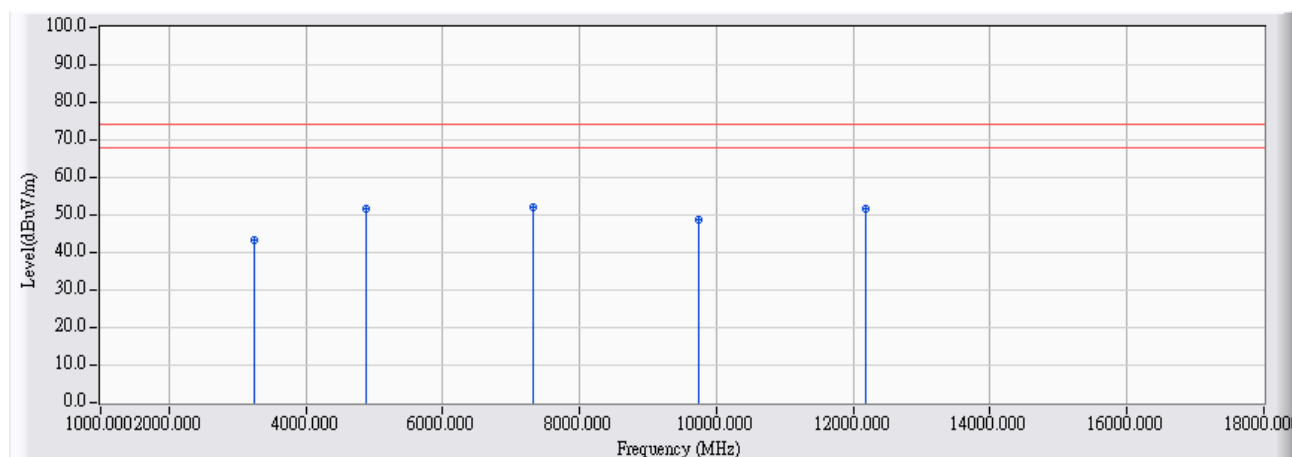


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3249.031	-6.716	52.740	46.024	-27.976	74.000	PEAK
2		4874.053	-0.140	48.070	47.930	-26.070	74.000	PEAK
3		7309.599	7.399	42.270	49.669	-24.331	74.000	PEAK
4		9747.963	12.853	36.130	48.983	-25.017	74.000	PEAK
5	*	12187.826	14.894	36.580	51.474	-22.526	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2437MHz

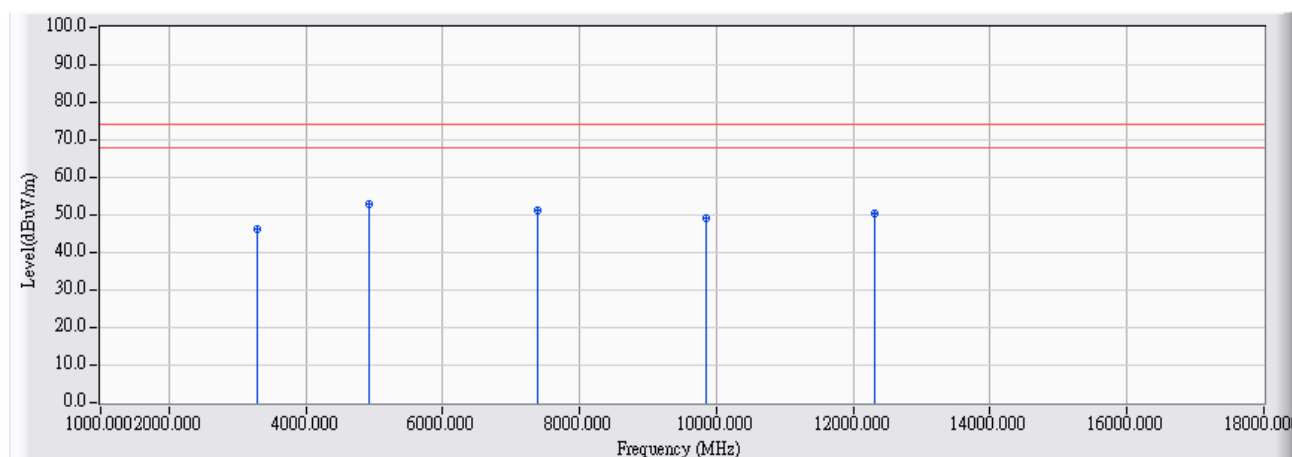


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3249.064	-6.716	49.900	43.184	-30.816	74.000	PEAK
2	4874.054	-0.140	51.970	51.830	-22.170	74.000	PEAK
3	* 7309.778	7.399	44.510	51.910	-22.090	74.000	PEAK
4	9748.266	12.853	35.940	48.793	-25.207	74.000	PEAK
5	12187.333	14.896	36.770	51.666	-22.334	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2462MHz

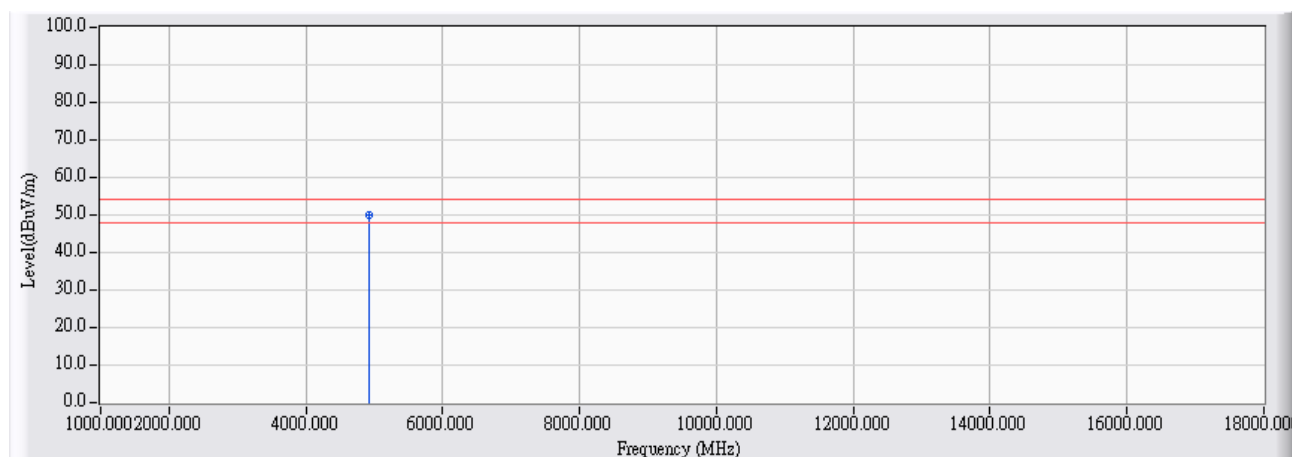


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3282.742	-6.651	52.730	46.080	-27.920	74.000	PEAK
2	*	4924.058	-0.076	52.890	52.815	-21.185	74.000	PEAK
3		7387.083	7.678	43.710	51.388	-22.612	74.000	PEAK
4		9845.458	12.986	36.320	49.306	-24.694	74.000	PEAK
5		12309.484	15.093	35.270	50.362	-23.638	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2462MHz

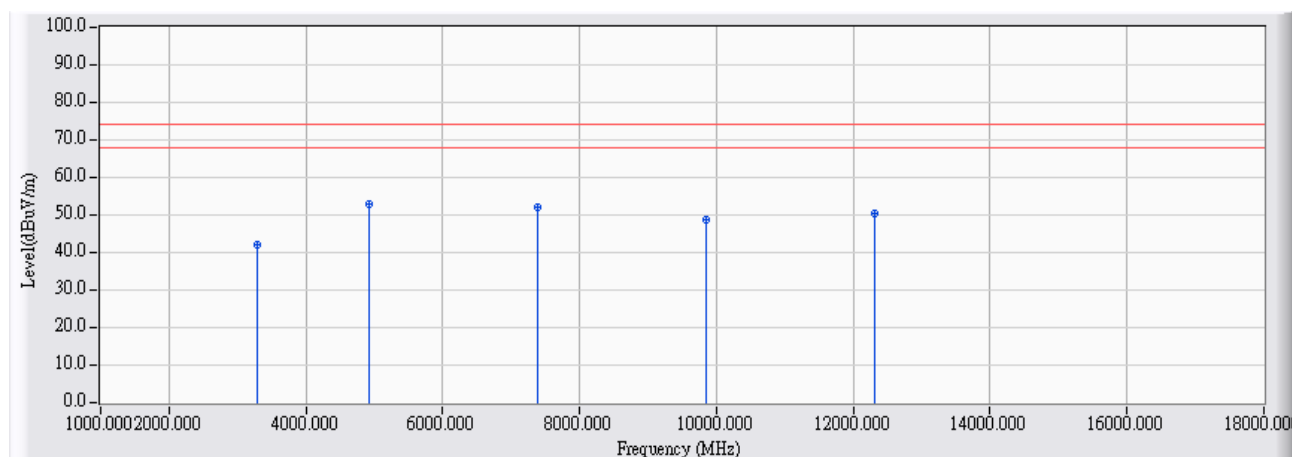


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4924.058	-0.076	49.940	49.864	-4.136	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2462MHz

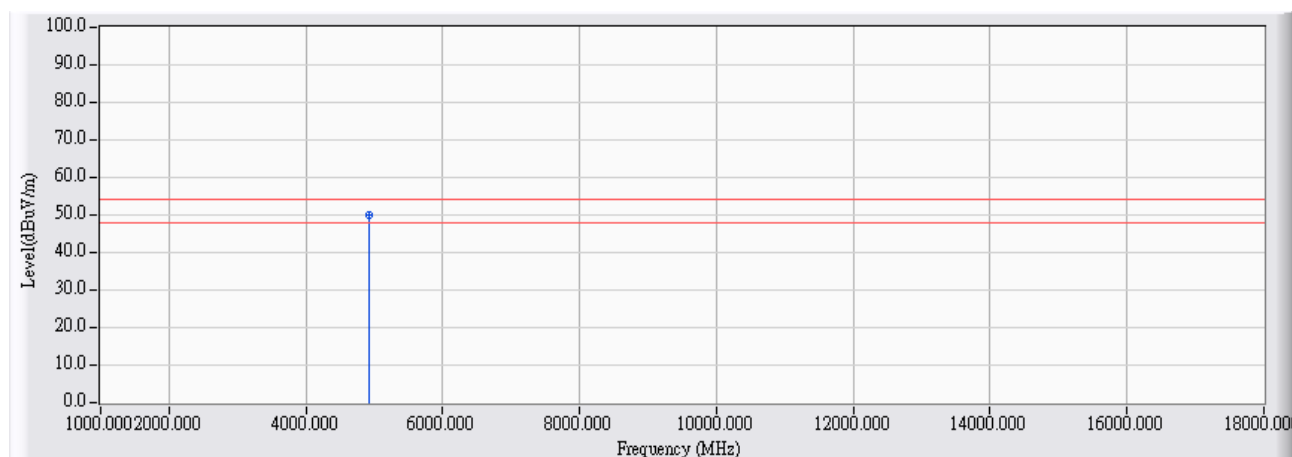


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3282.466	-6.651	48.720	42.069	-31.931	74.000	PEAK
2	*	4923.969	-0.076	52.810	52.734	-21.266	74.000	PEAK
3		7387.439	7.679	44.260	51.939	-22.061	74.000	PEAK
4		9843.754	12.983	35.900	48.883	-25.117	74.000	PEAK
5		12308.373	15.084	35.460	50.545	-23.455	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2462MHz

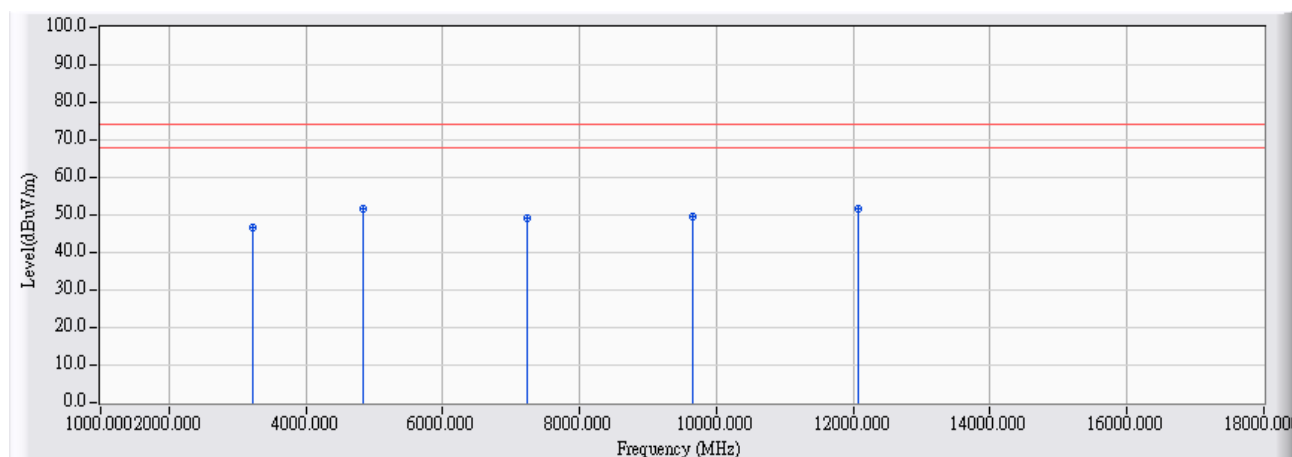


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4923.969	-0.076	50.030	49.954	-4.046	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2412MHz

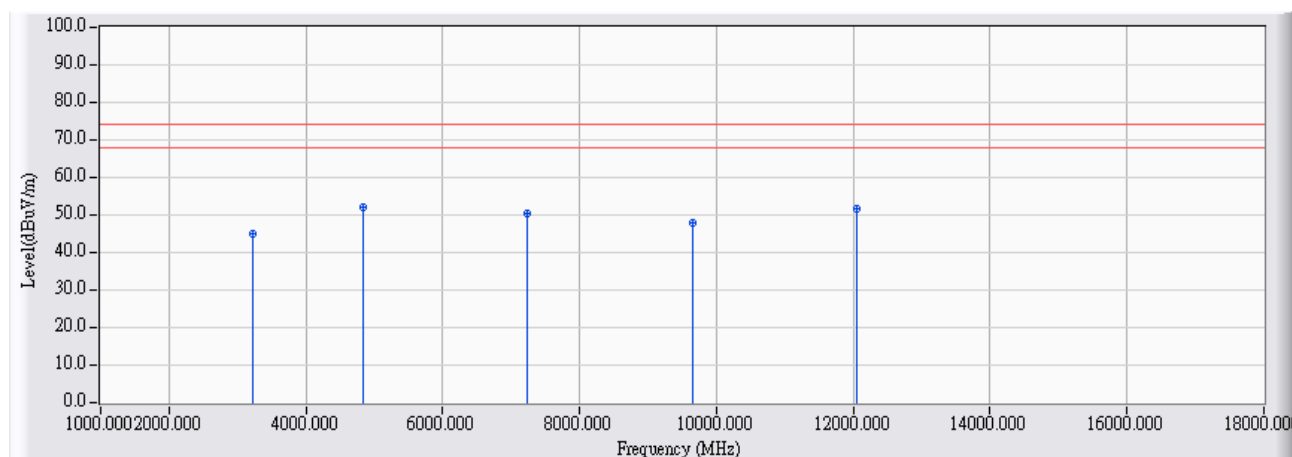


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3215.864	-6.773	53.480	46.708	-27.292	74.000	PEAK
2		4826.018	-0.216	51.950	51.734	-22.266	74.000	PEAK
3		7240.121	7.137	42.030	49.168	-24.832	74.000	PEAK
4		9650.394	12.580	36.990	49.570	-24.430	74.000	PEAK
5	*	12064.479	15.323	36.510	51.833	-22.167	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2412MHz

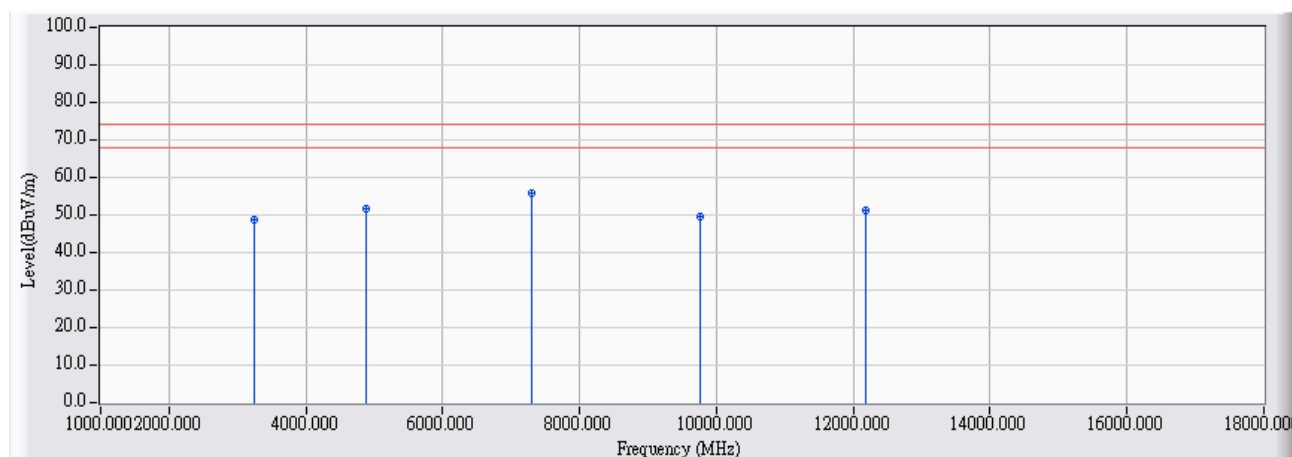


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3216.169	-6.772	51.710	44.938	-29.062	74.000	PEAK
2	*	4826.394	-0.214	52.210	51.996	-22.004	74.000	PEAK
3		7233.064	7.129	43.270	50.399	-23.601	74.000	PEAK
4		9651.832	12.576	35.490	48.066	-25.934	74.000	PEAK
5		12055.752	15.353	36.390	51.743	-22.257	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2437MHz

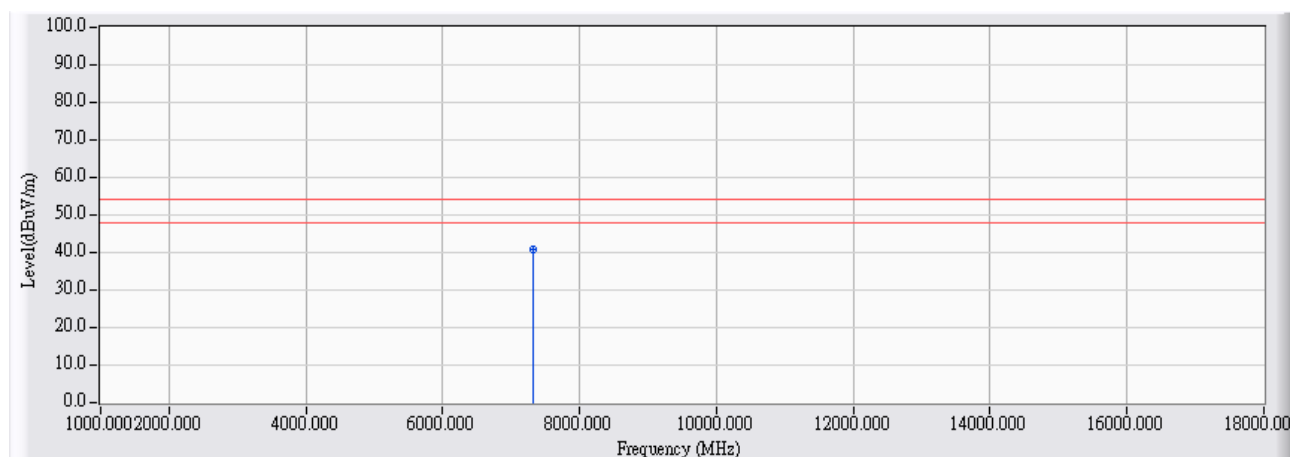


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3249.287	-6.716	55.280	48.564	-25.436	74.000	PEAK
2	4875.121	-0.135	51.890	51.755	-22.245	74.000	PEAK
3	* 7305.790	7.385	48.600	55.985	-18.015	74.000	PEAK
4	9756.599	12.860	36.820	49.681	-24.319	74.000	PEAK
5	12184.142	14.906	36.330	51.237	-22.763	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2437MHz

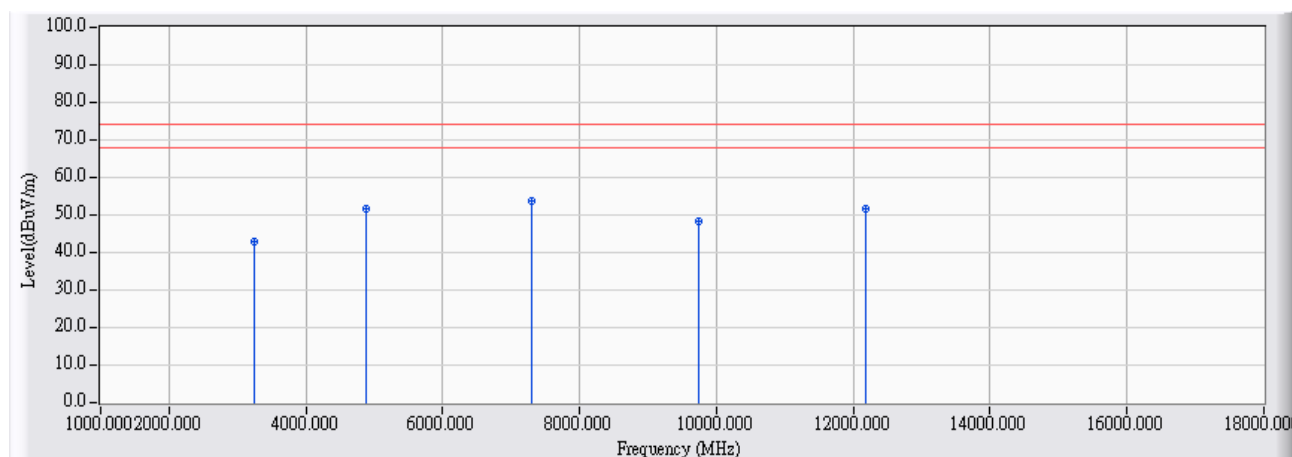


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7305.790	7.385	33.270	40.655	-13.345	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2437MHz

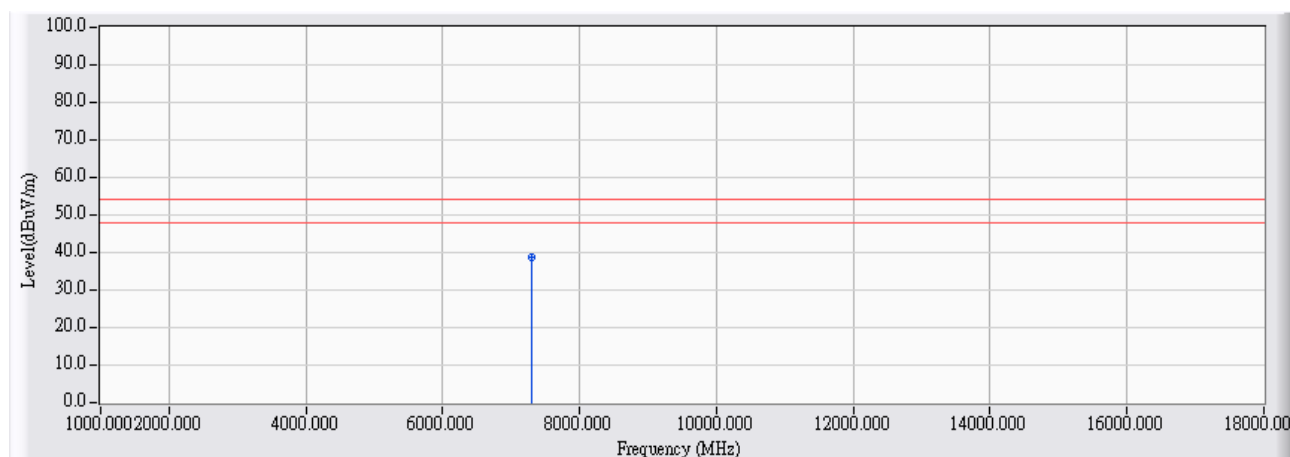


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3249.265	-6.716	49.670	42.954	-31.046	74.000	PEAK
2	4875.274	-0.133	51.650	51.516	-22.484	74.000	PEAK
3	* 7305.975	7.387	46.500	53.886	-0.114	54.000	PEAK
4	9745.372	12.850	35.390	48.241	-5.759	54.000	PEAK
5	12188.567	14.891	36.590	51.481	-22.519	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2437MHz

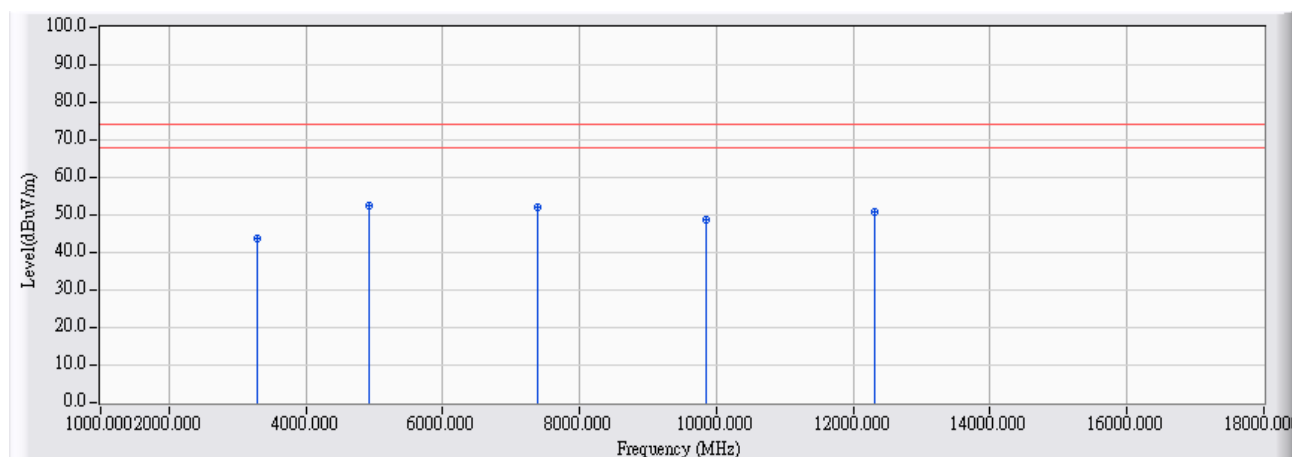


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7305.975	7.387	31.340	38.727	-15.273	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2462MHz

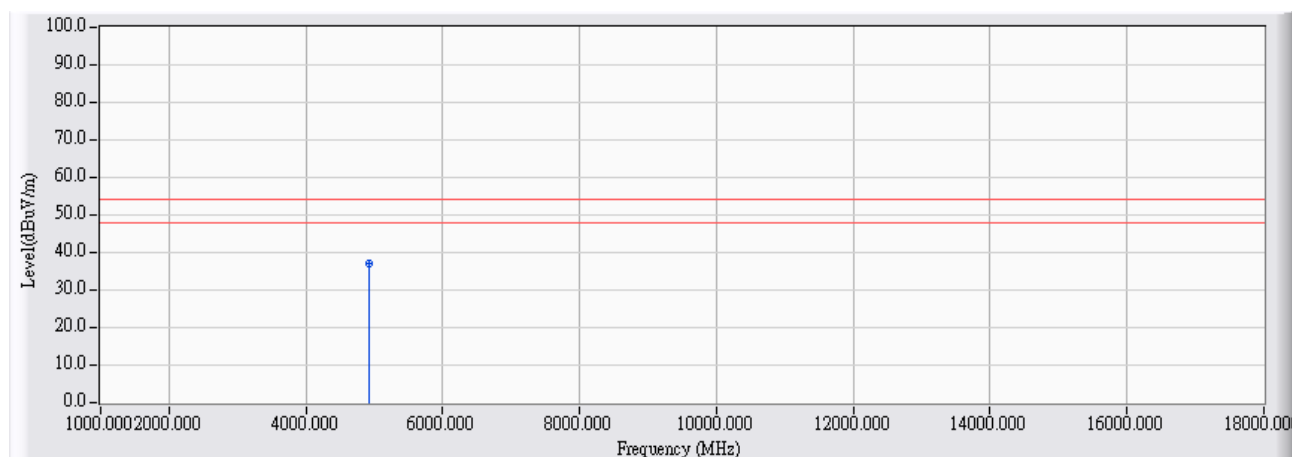


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3282.941	-6.649	50.490	43.840	-30.160	74.000	PEAK
2	*	4924.033	-0.076	52.780	52.705	-21.295	74.000	PEAK
3		7392.294	7.697	44.200	51.897	-22.103	74.000	PEAK
4		9849.202	12.991	35.650	48.641	-25.359	74.000	PEAK
5		12320.311	15.169	35.570	50.739	-23.261	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2462MHz

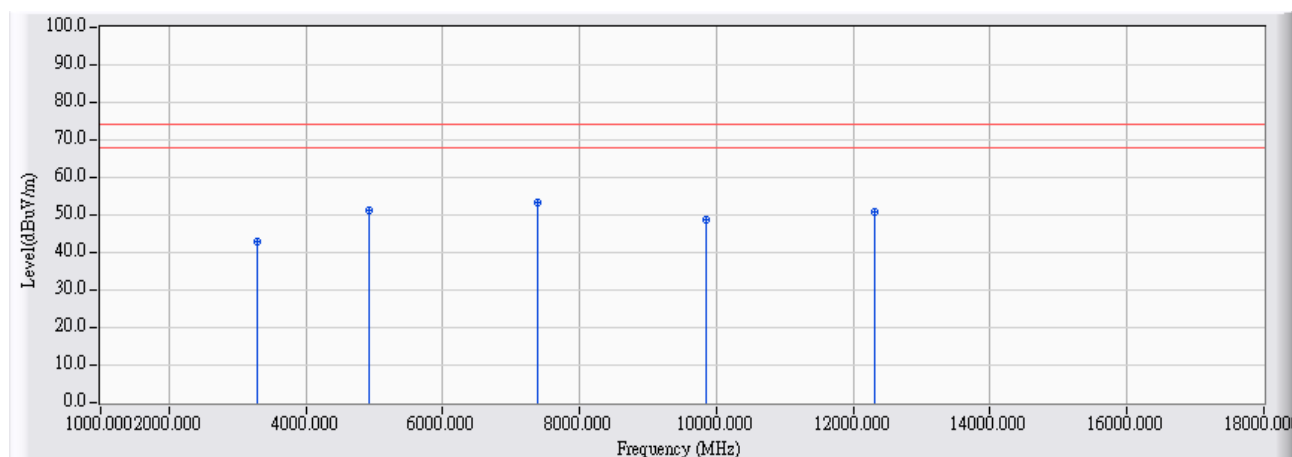


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4924.033	-0.076	37.290	37.214	-16.786	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2462MHz

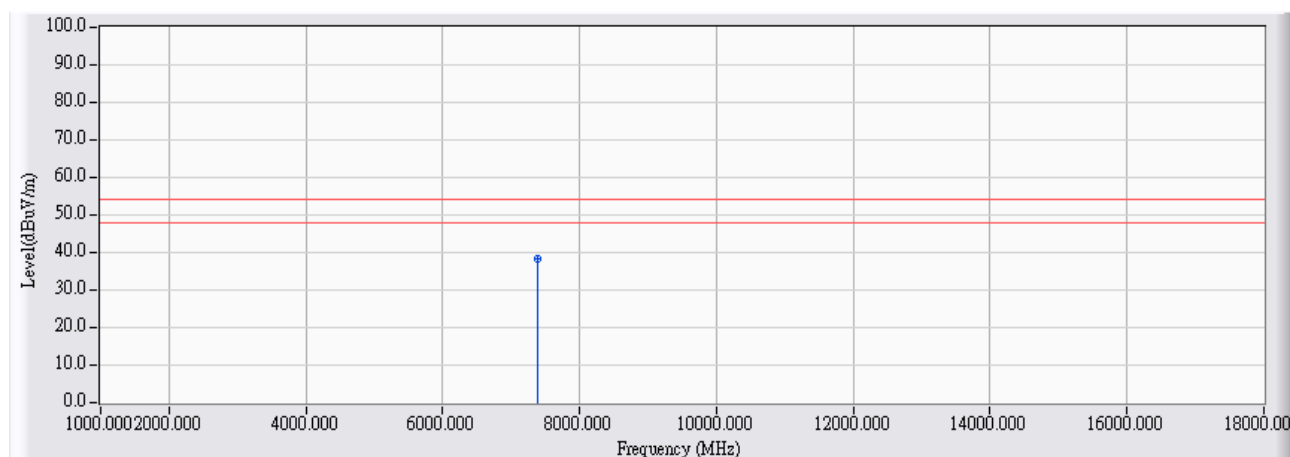


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3282.539	-6.651	49.710	43.059	-30.941	74.000	PEAK
2	4926.725	-0.073	51.530	51.458	-22.542	74.000	PEAK
3	* 7385.571	7.672	45.700	53.373	-20.627	74.000	PEAK
4	9844.942	12.985	35.770	48.755	-25.245	74.000	PEAK
5	12317.881	15.152	35.800	50.952	-23.048	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2462MHz

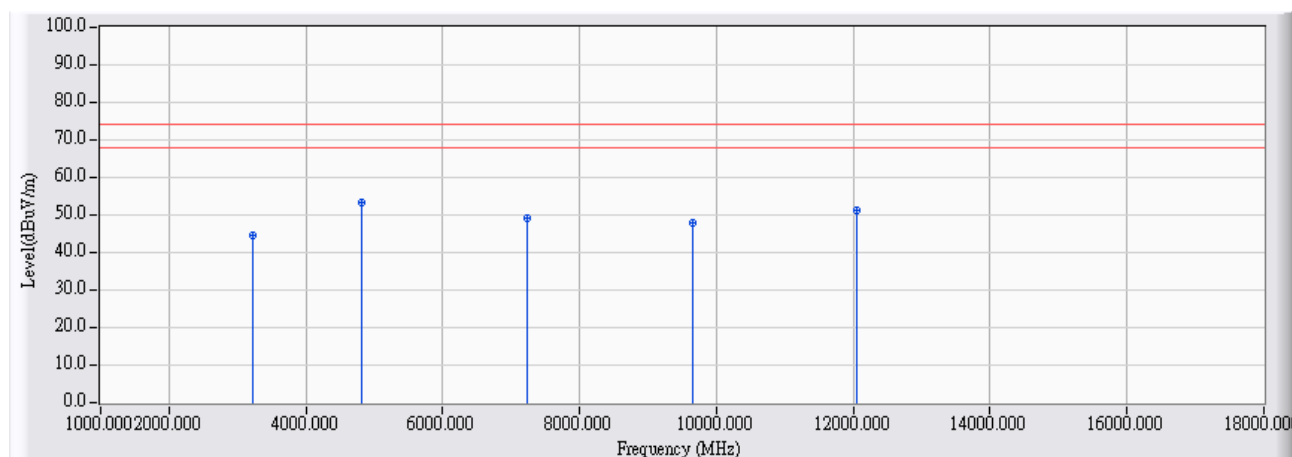


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7385.571	7.672	30.670	38.342	-15.658	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2412MHz

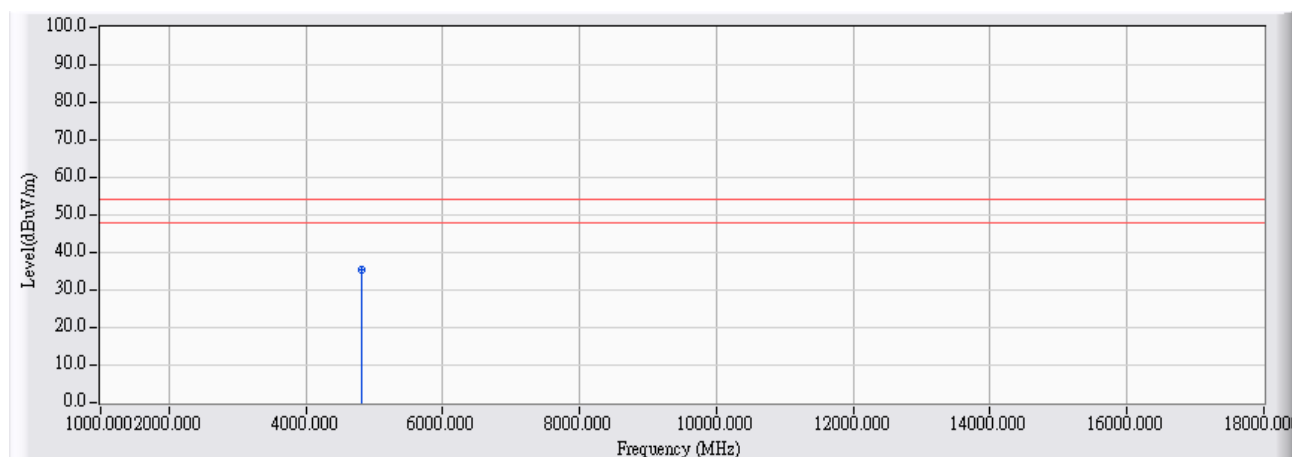


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3215.822	-6.773	51.510	44.738	-29.262	74.000	PEAK
2	*	4823.182	-0.219	53.640	53.422	-20.578	74.000	PEAK
3		7234.430	7.128	41.910	49.038	-24.962	74.000	PEAK
4		9650.404	12.580	35.500	48.080	-25.920	74.000	PEAK
5		12058.648	15.343	36.010	51.353	-22.647	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2412MHz

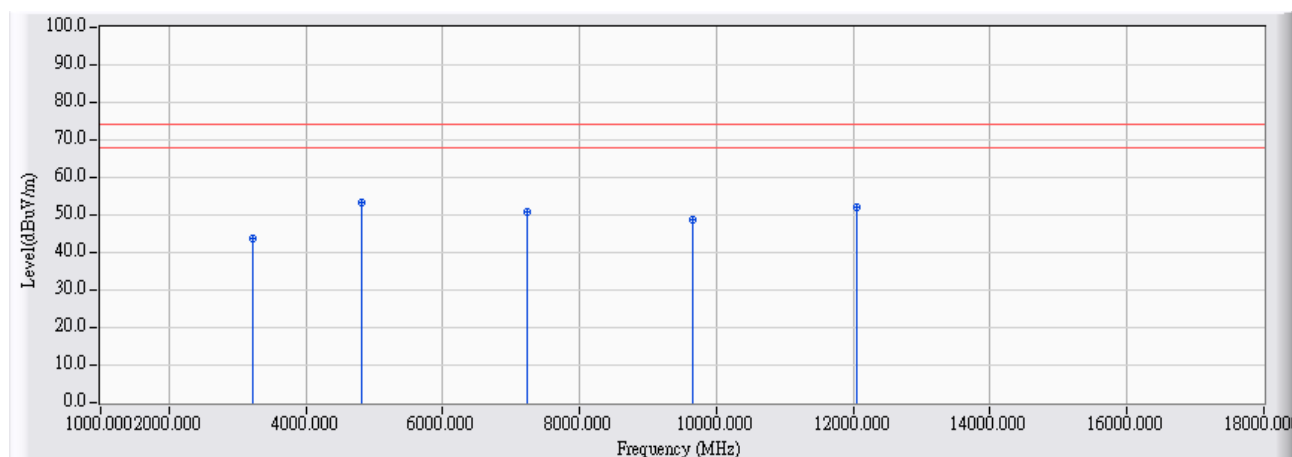


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4823.182	-0.219	35.600	35.381	-18.619	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2412MHz

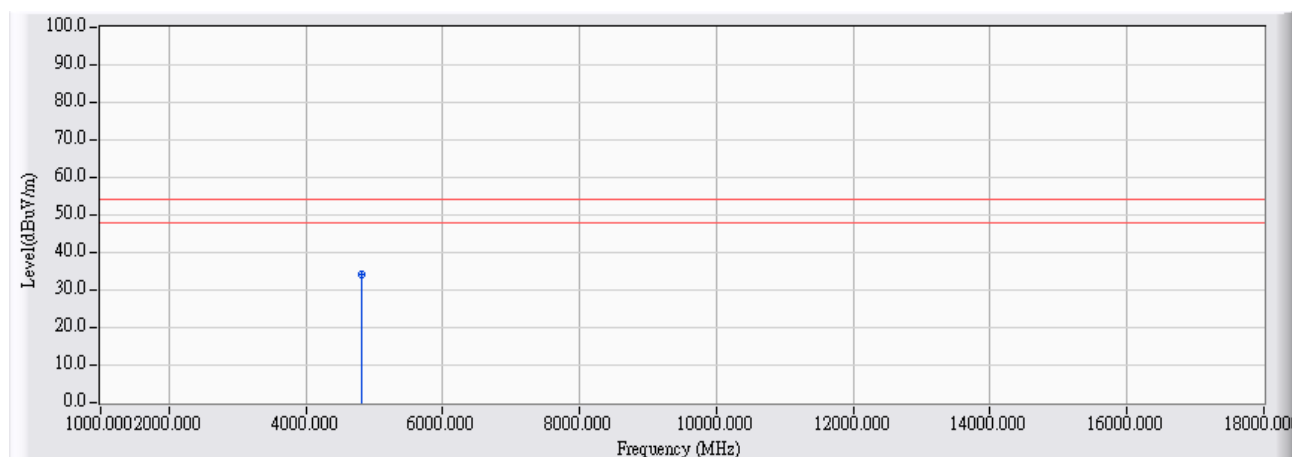


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3215.848	-6.773	50.720	43.948	-30.052	74.000	PEAK
2	*	4823.297	-0.218	53.580	53.362	-20.638	74.000	PEAK
3		7234.881	7.128	43.730	50.858	-23.142	74.000	PEAK
4		9652.575	12.574	36.280	48.854	-25.146	74.000	PEAK
5		12058.384	15.343	36.560	51.904	-22.096	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2412MHz

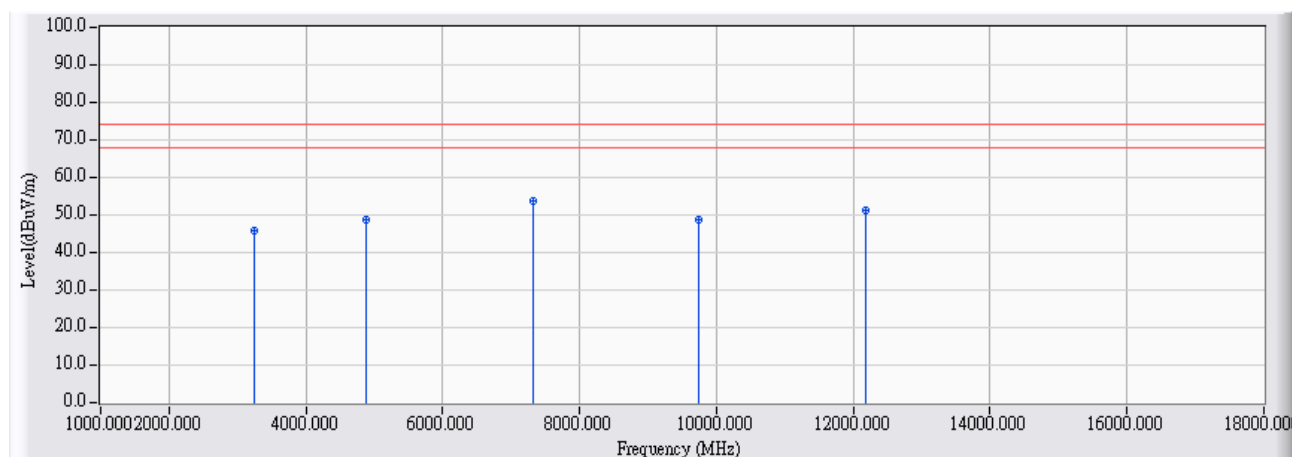


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4823.297	-0.218	34.480	34.262	-19.738	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2437MHz

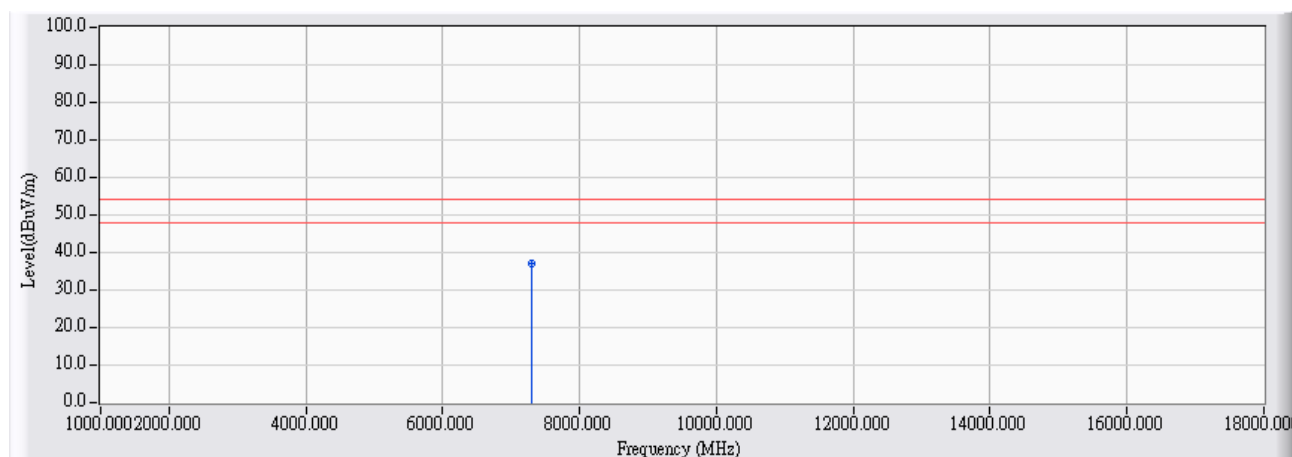


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3249.281	-6.716	52.610	45.894	-28.106	74.000	PEAK
2	4873.487	-0.144	49.010	48.867	-25.133	74.000	PEAK
3	* 7317.256	7.427	46.520	53.947	-20.053	74.000	PEAK
4	9748.671	12.853	35.750	48.603	-25.397	74.000	PEAK
5	12184.336	14.906	36.340	51.246	-22.754	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2437MHz

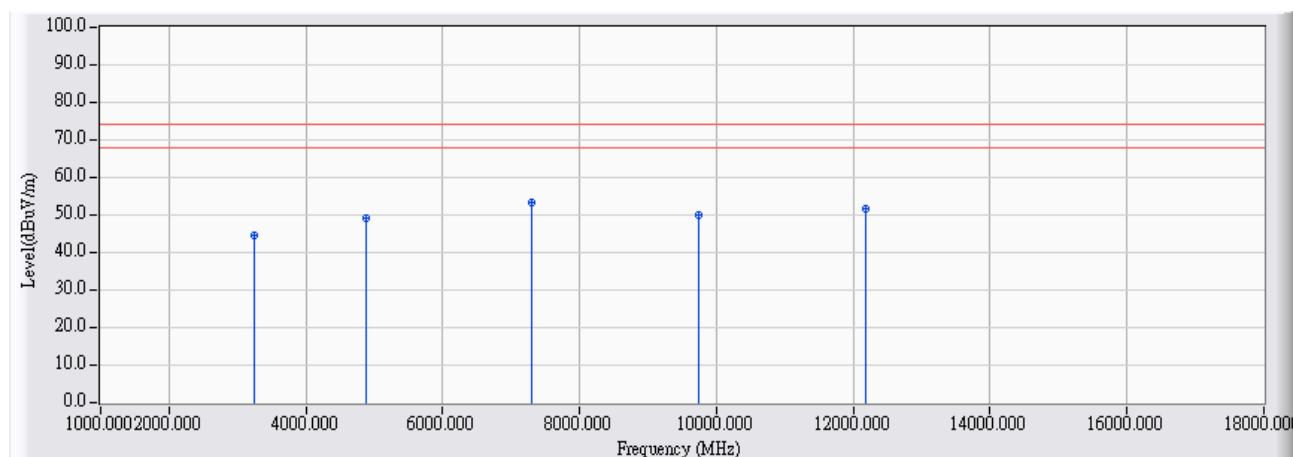


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7317.256	7.427	29.530	36.957	-17.043	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2437MHz

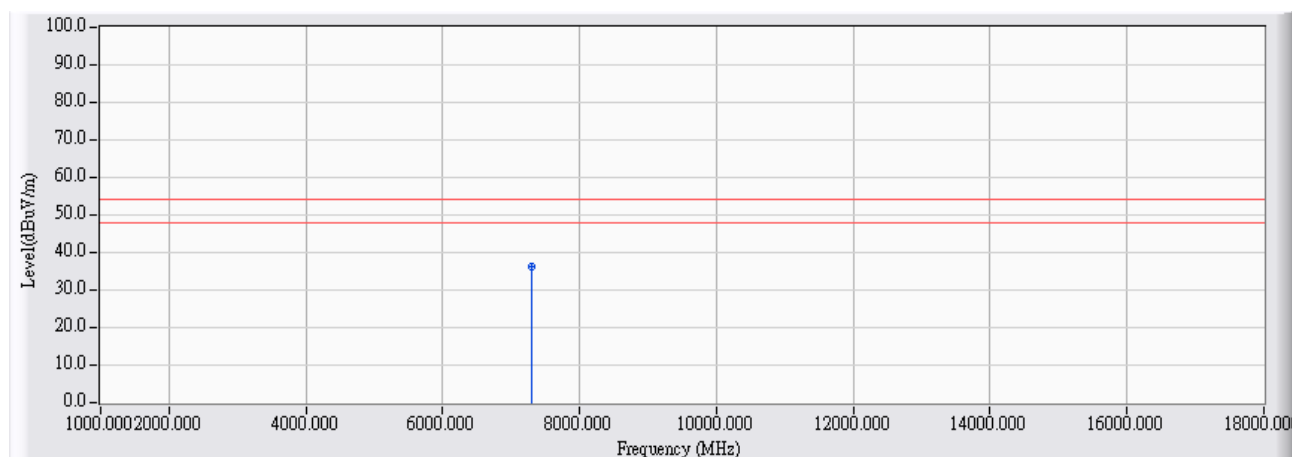


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3249.128	-6.716	51.100	44.384	-29.616	74.000	PEAK
2	4873.063	-0.146	49.140	48.994	-25.006	74.000	PEAK
3	7306.967	7.389	45.820	53.210	-20.790	74.000	PEAK
4	* 9750.353	12.854	37.160	50.015	-3.985	54.000	PEAK
5	12182.367	14.913	36.770	51.683	-22.317	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2437MHz

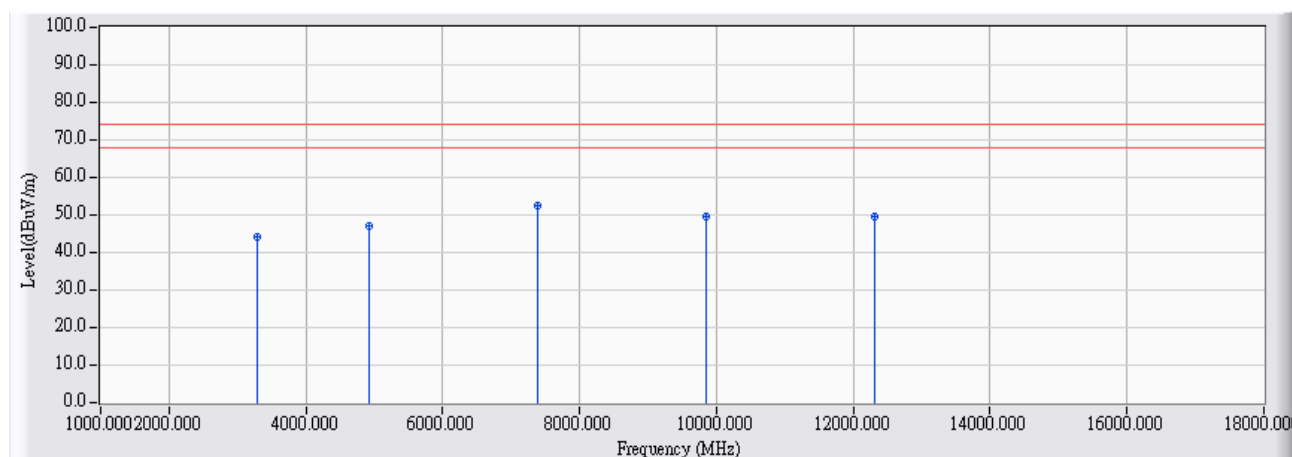


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7306.967	7.389	29.040	36.429	-17.571	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2462MHz

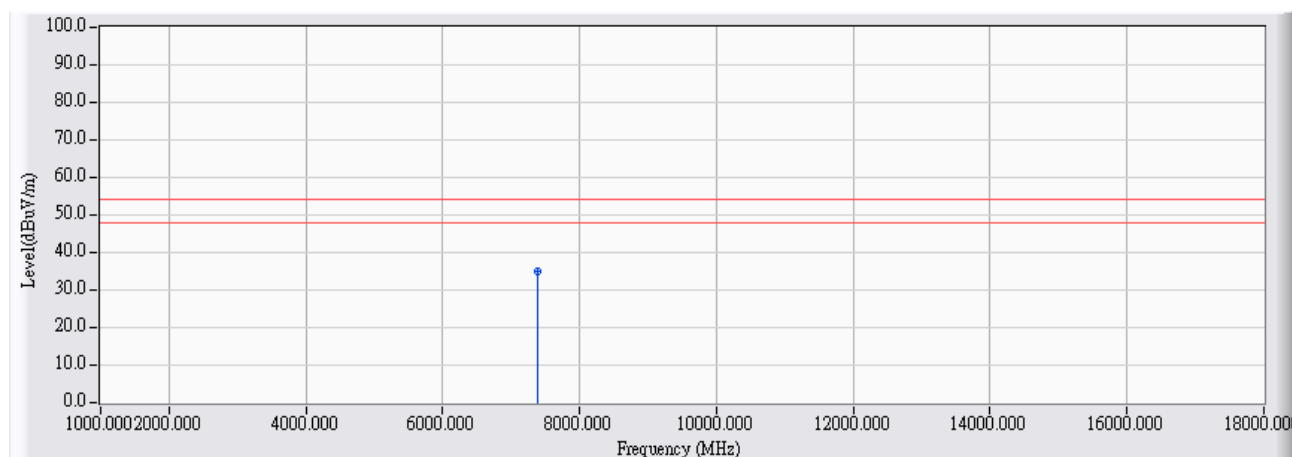


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3282.480	-6.651	50.610	43.959	-30.041	74.000	PEAK
2		4923.072	-0.076	47.220	47.143	-26.857	74.000	PEAK
3	*	7383.662	7.666	44.990	52.656	-21.344	74.000	PEAK
4		9850.127	12.993	36.490	49.482	-24.518	74.000	PEAK
5		12313.299	15.119	34.670	49.789	-24.211	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2462MHz

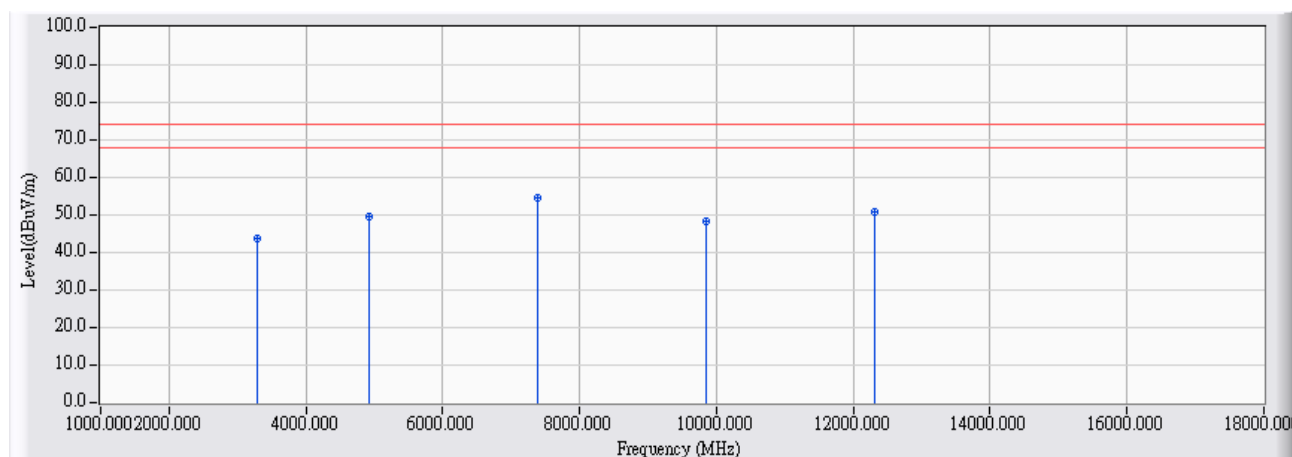


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7383.662	7.666	27.500	35.166	-18.834	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2462MHz

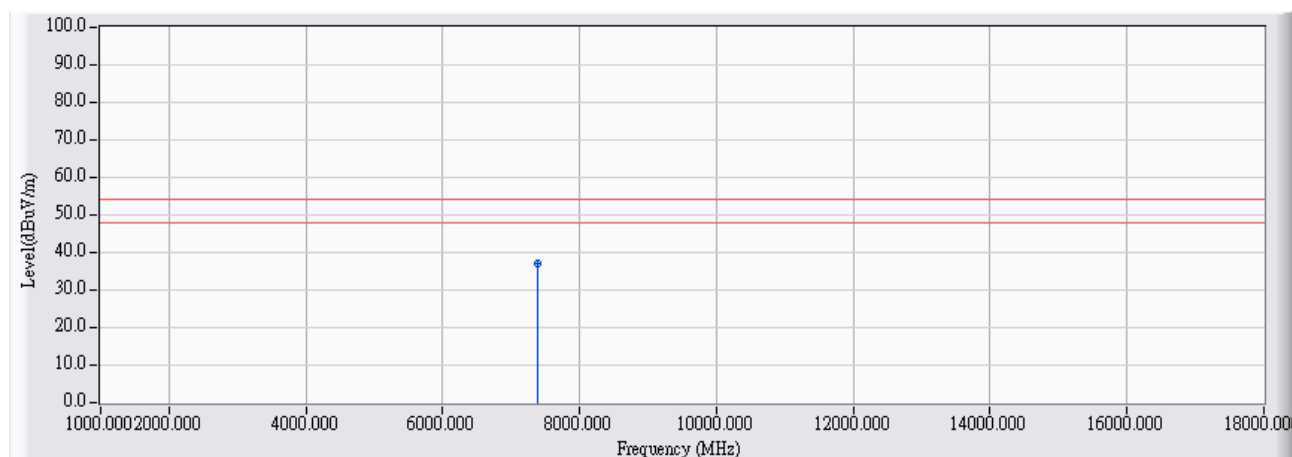


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3282.491	-6.651	50.200	43.549	-30.451	74.000	PEAK
2	4921.925	-0.078	49.820	49.742	-24.258	74.000	PEAK
3	* 7383.513	7.665	46.980	54.645	-19.355	74.000	PEAK
4	9846.781	12.987	35.500	48.488	-25.512	74.000	PEAK
5	12307.675	15.080	35.790	50.870	-23.130	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2462MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7383.513	7.665	29.220	36.885	-17.115	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz-25GHz were not included is because their levels are lower than 20dB from limit.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the test:

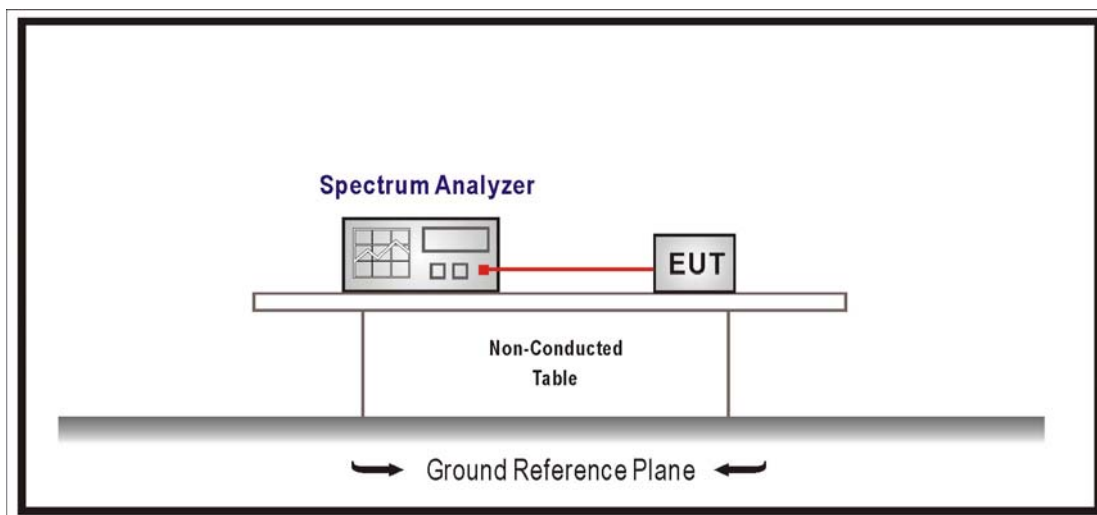
RF antenna conducted test / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/23	2018/01/22
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/07/26	2018/07/25

Note: All equipments that need to calibrate are with calibration period of 1 year.

5.2. Test Setup

RF Antenna Conducted Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on an RF conducted or radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2017

5.6. Uncertainty

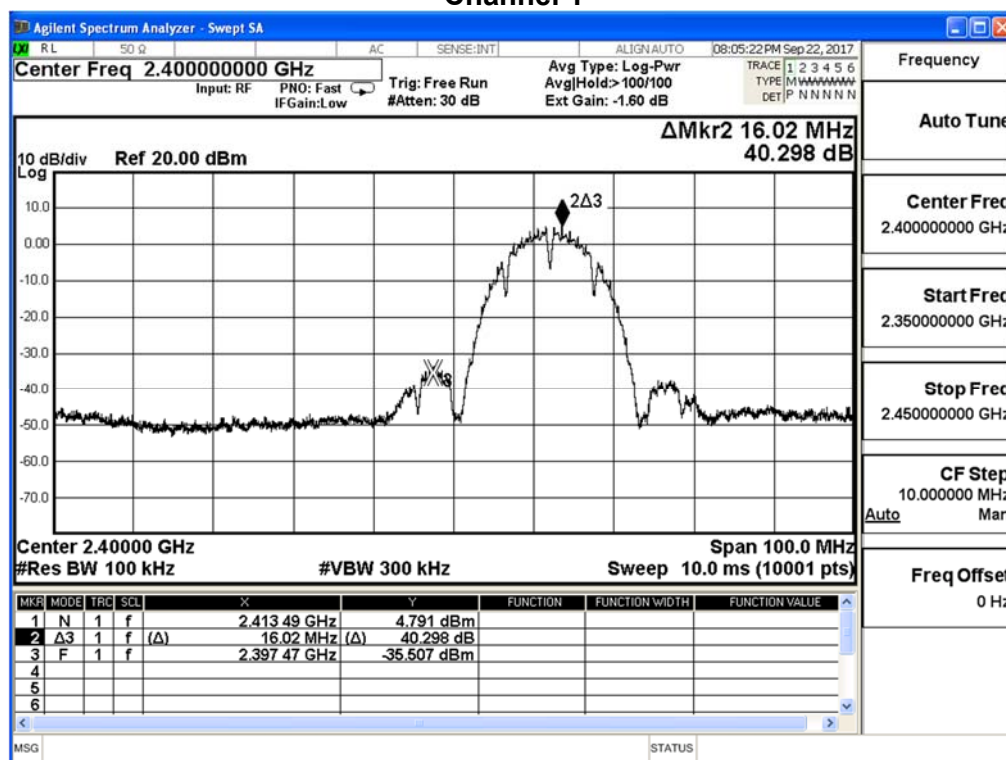
Conducted is defined as $\pm 1.27\text{dB}$

5.7. Test Result

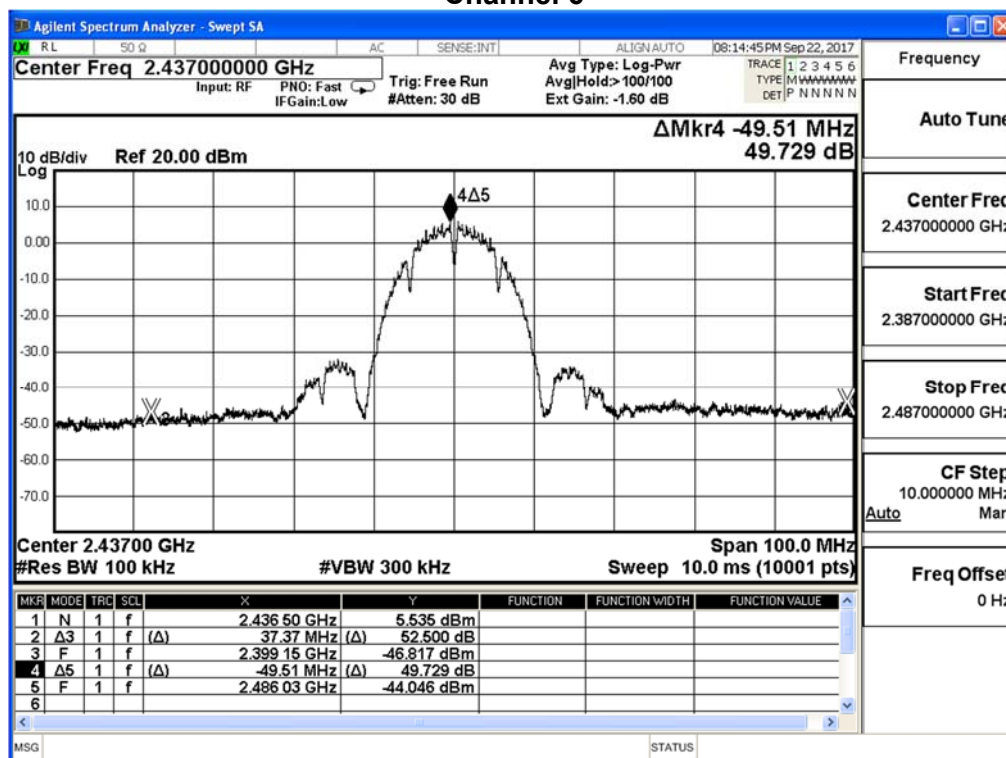
Product	WIFI Gateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2017/09/26	Test Site	SR10-H

IEEE 802.11b (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	40.298	≤ 20	Pass
6	2437	46.646	≤ 20	Pass
11	2462	45.900	≤ 20	Pass

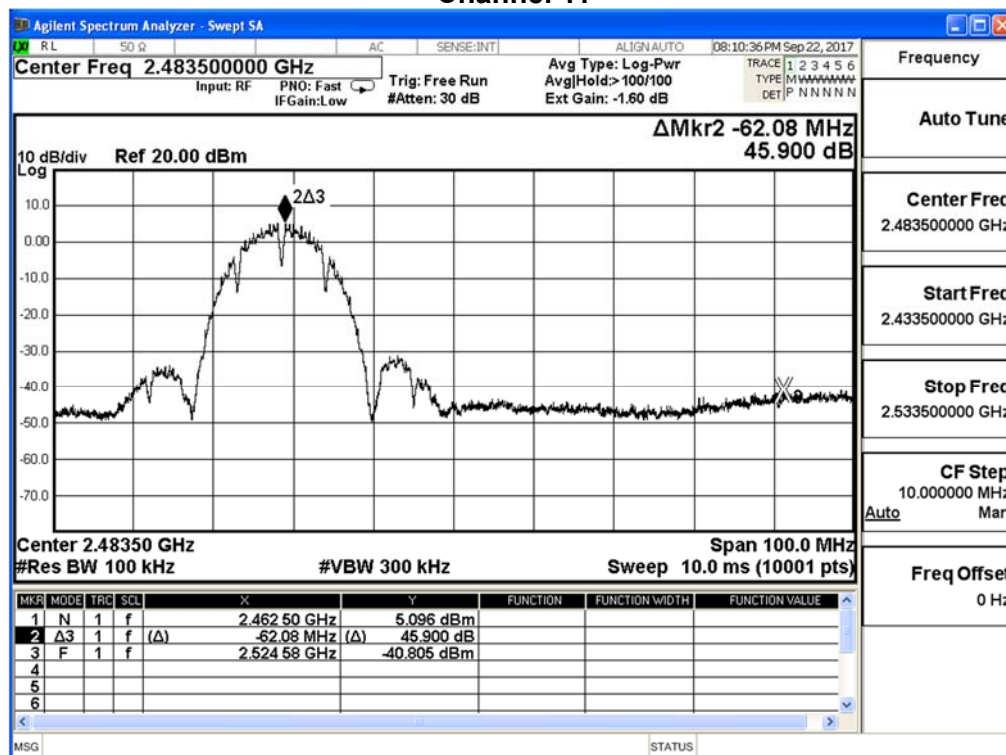
Channel 1



Channel 6



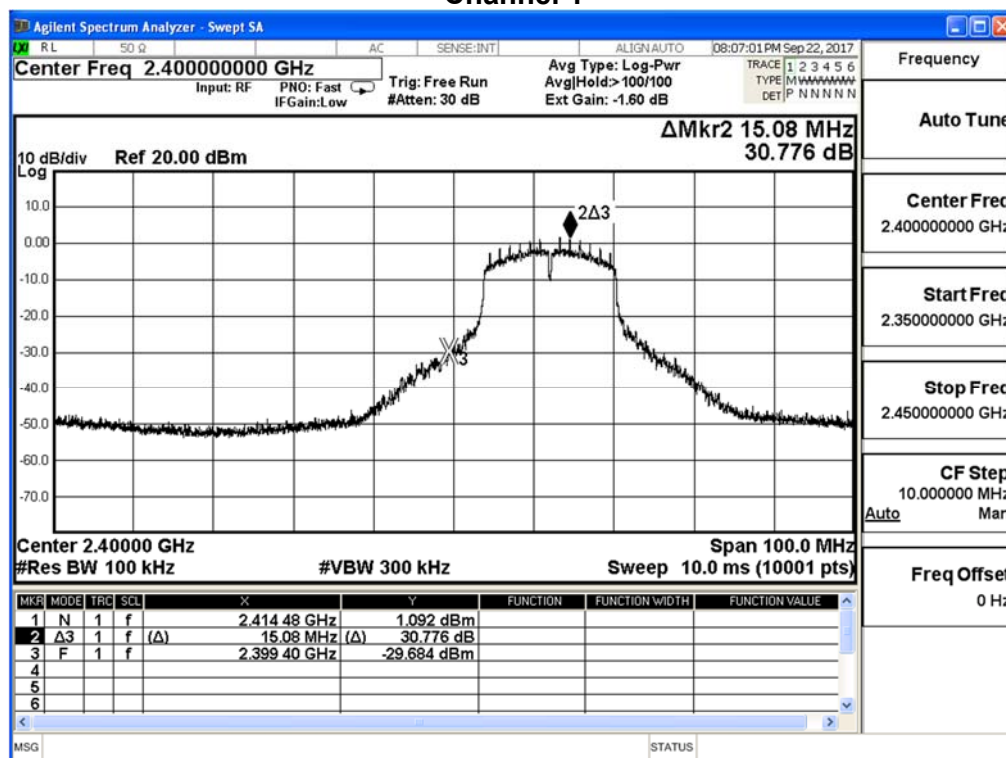
Channel 11



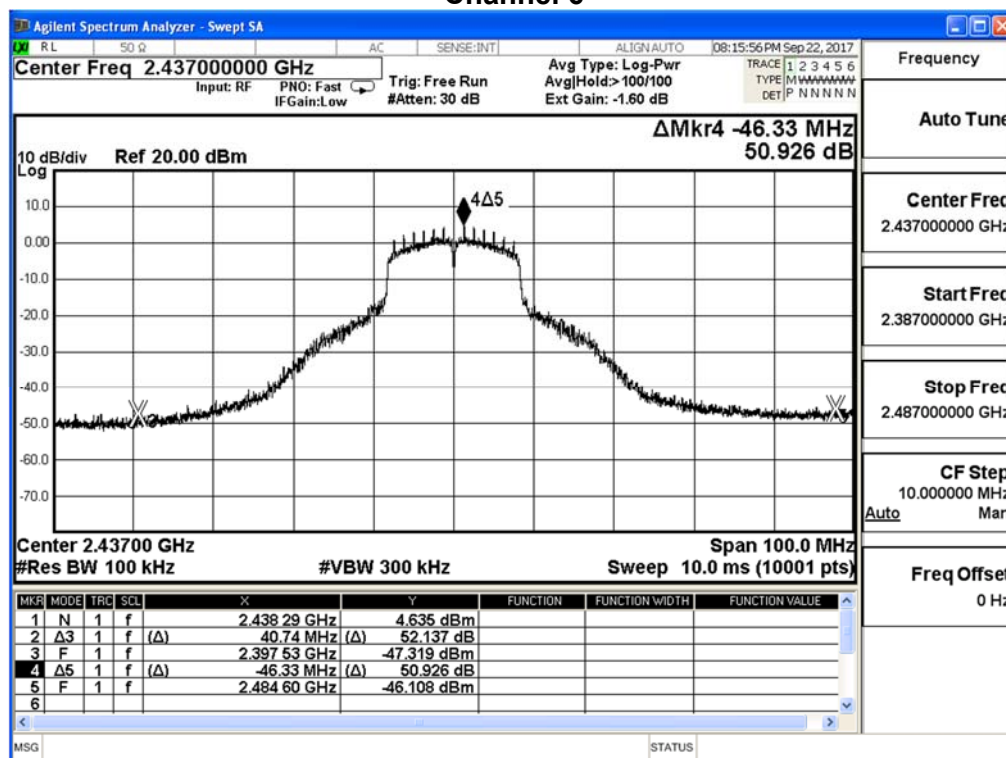
Product	WIFI Gateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2017/09/26	Test Site	SR10-H

IEEE 802.11g (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	30.776	≤ 20	Pass
6	2437	42.947	≤ 20	Pass
11	2462	42.199	≤ 20	Pass

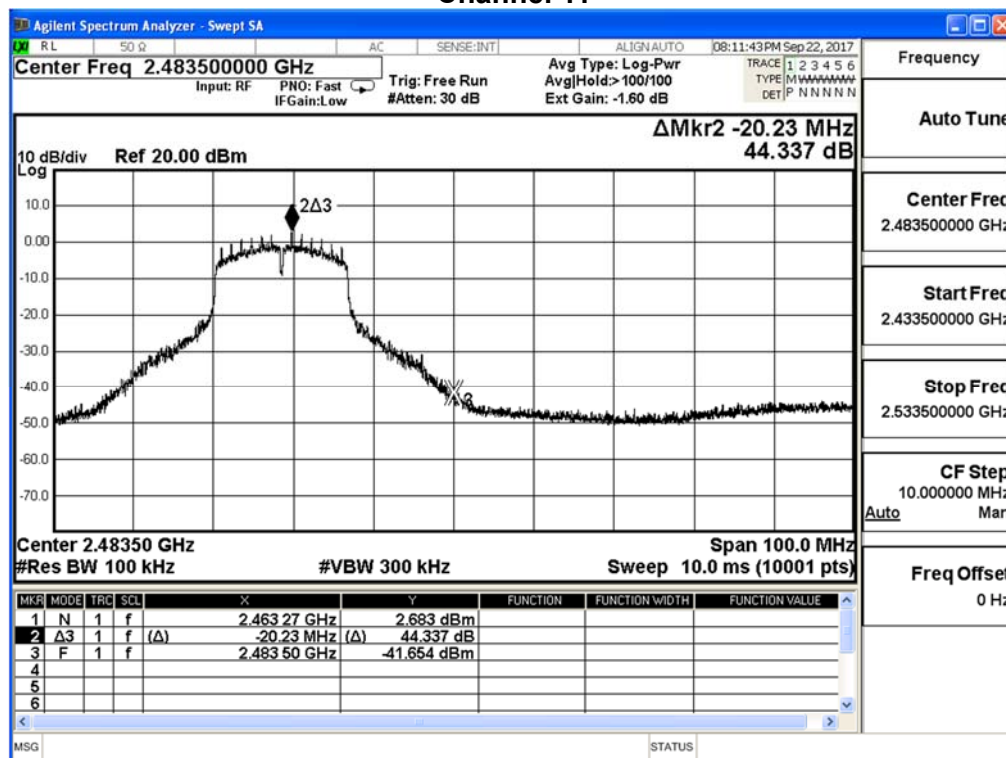
Channel 1



Channel 6



Channel 11

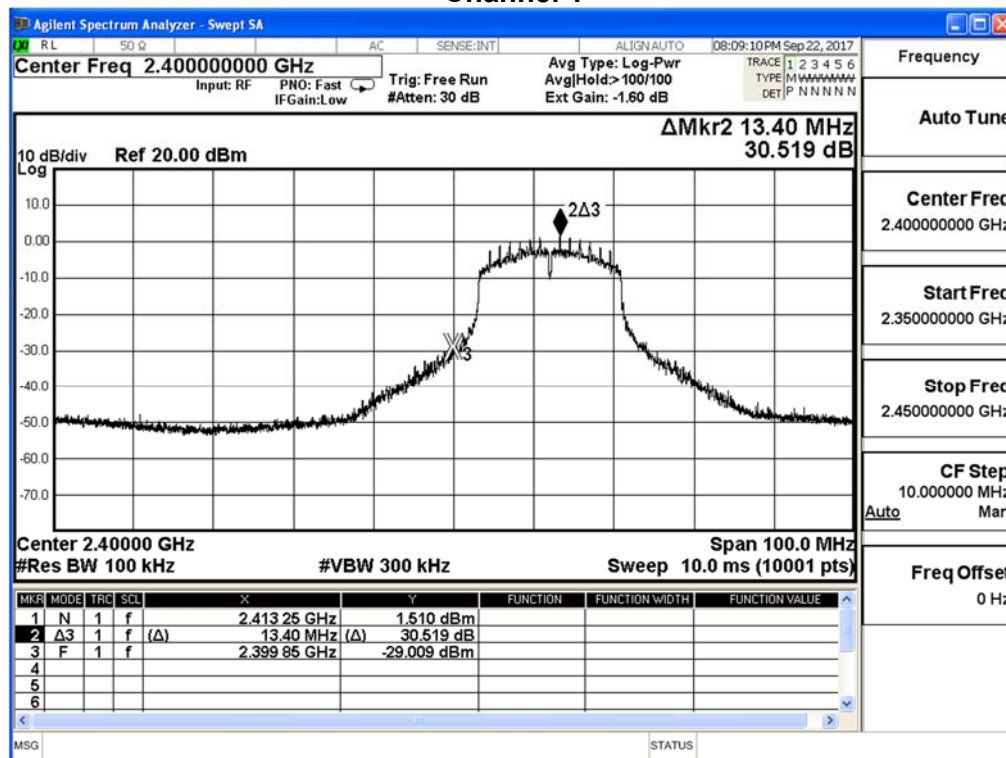


Product	WIFI Gateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2017/09/26	Test Site	SR10-H

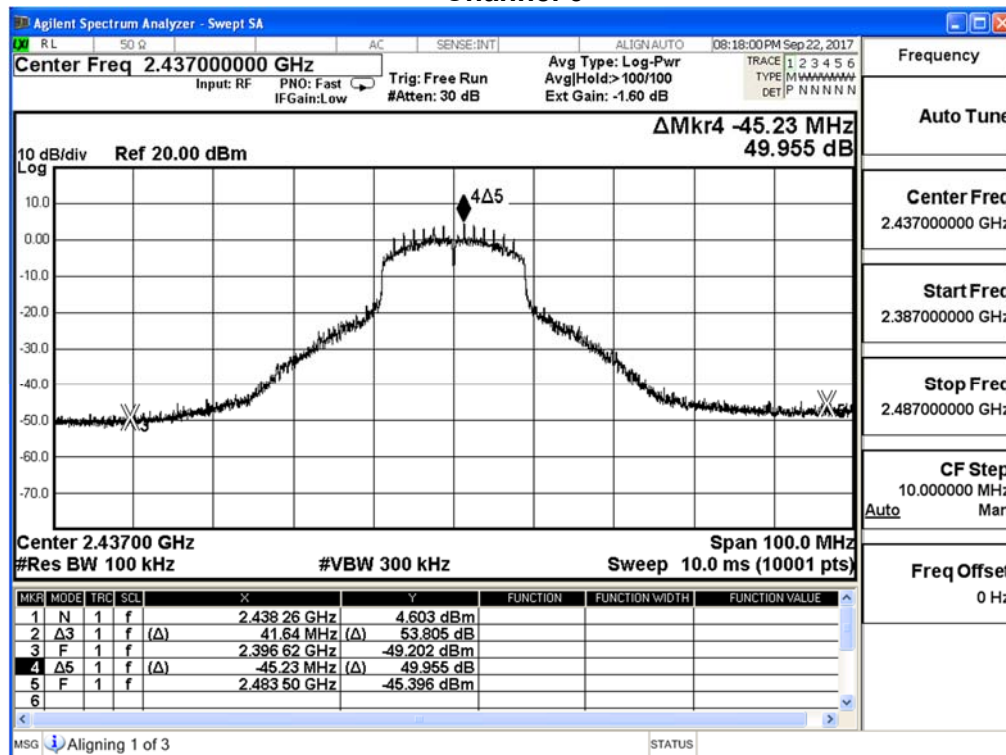
IEEE 802.11n_20M (ANT 0)

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	30.519	≥ 20	Pass
6	2437	46.820	≥ 20	Pass
11	2462	41.739	≥ 20	Pass

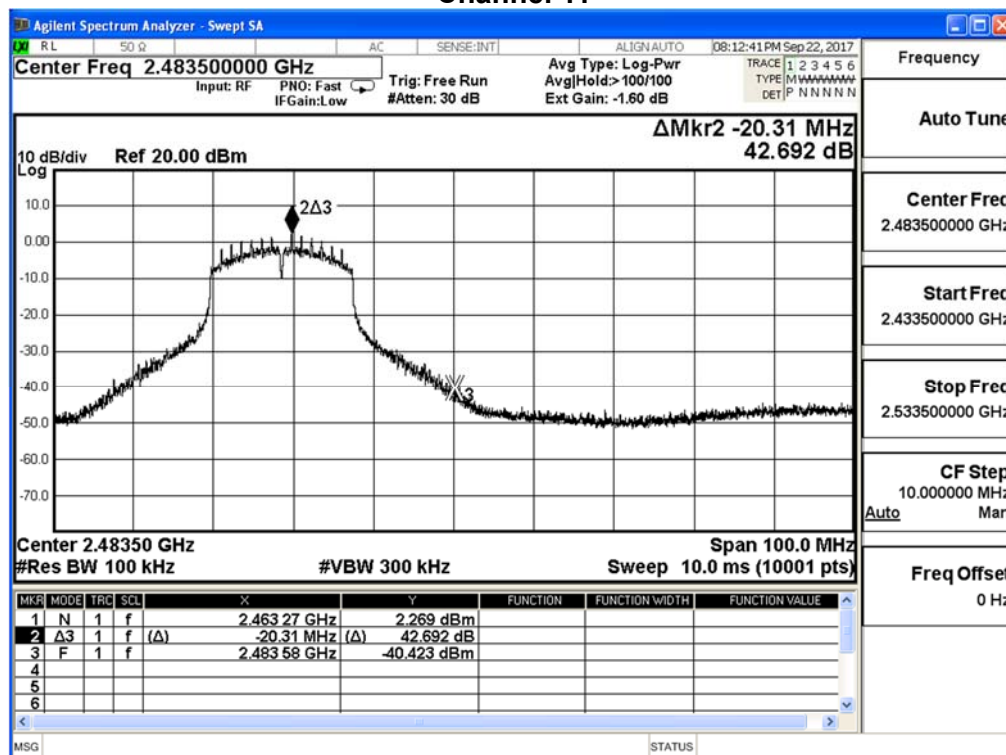
Channel 1



Channel 6

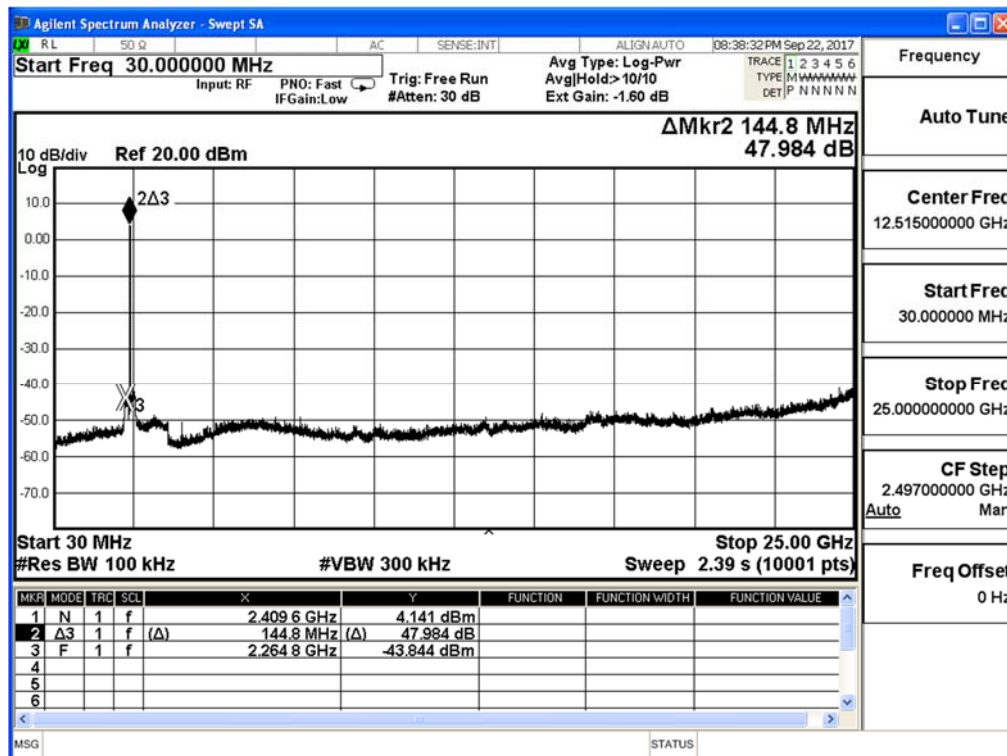


Channel 11

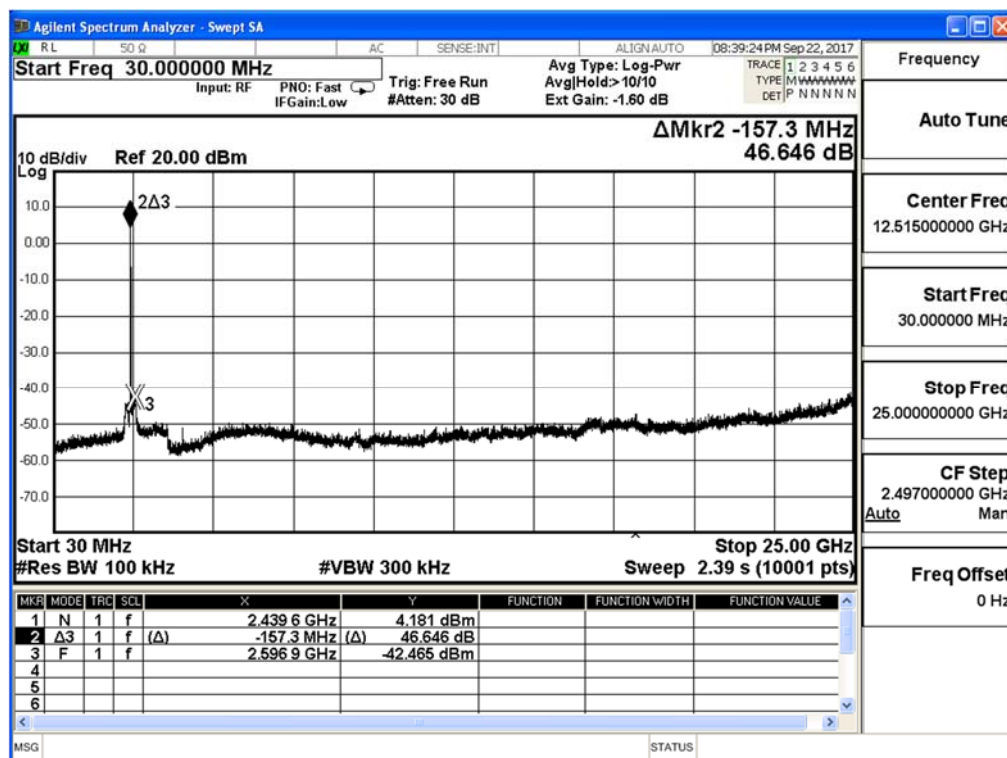


Product	WIFI Gateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2017/09/26	Test Site	SR10-H

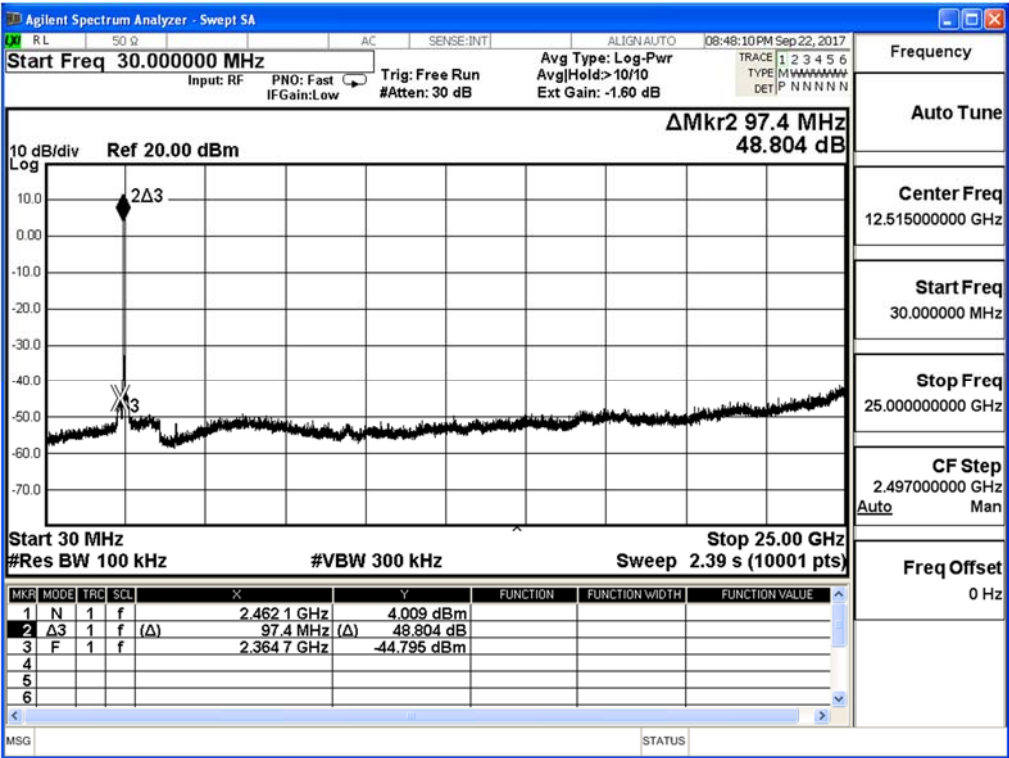
2412MHz (30MHz-25GHz)-802.11b (ANT 0)



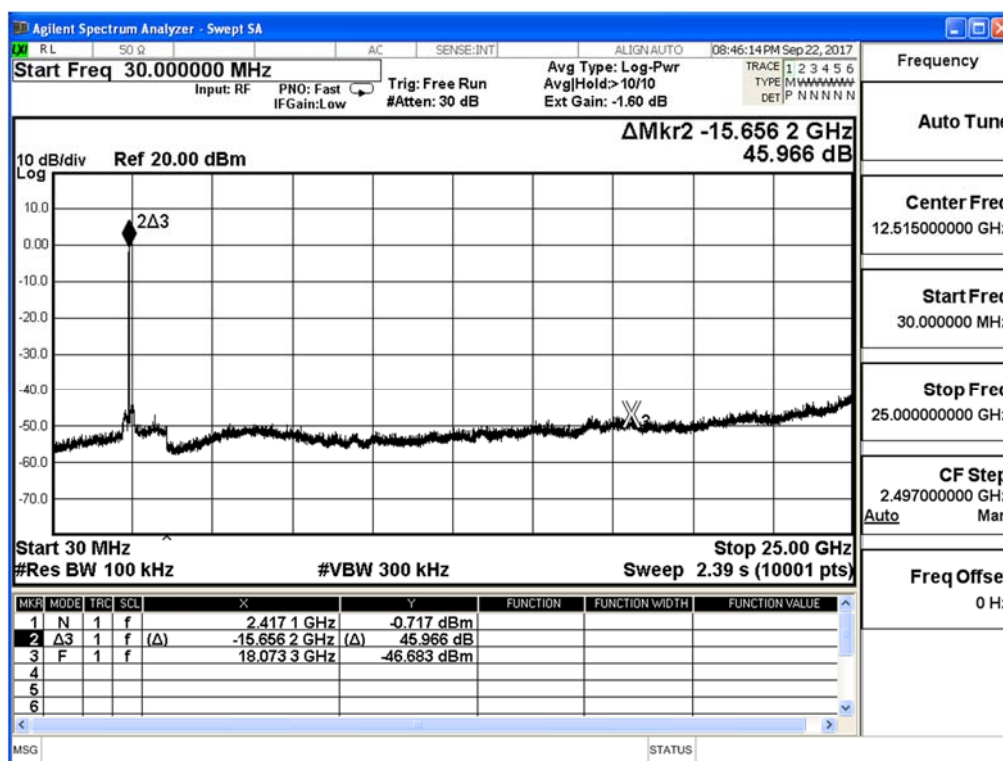
2437MHz (30MHz-25GHz)-802.11b (ANT 0)



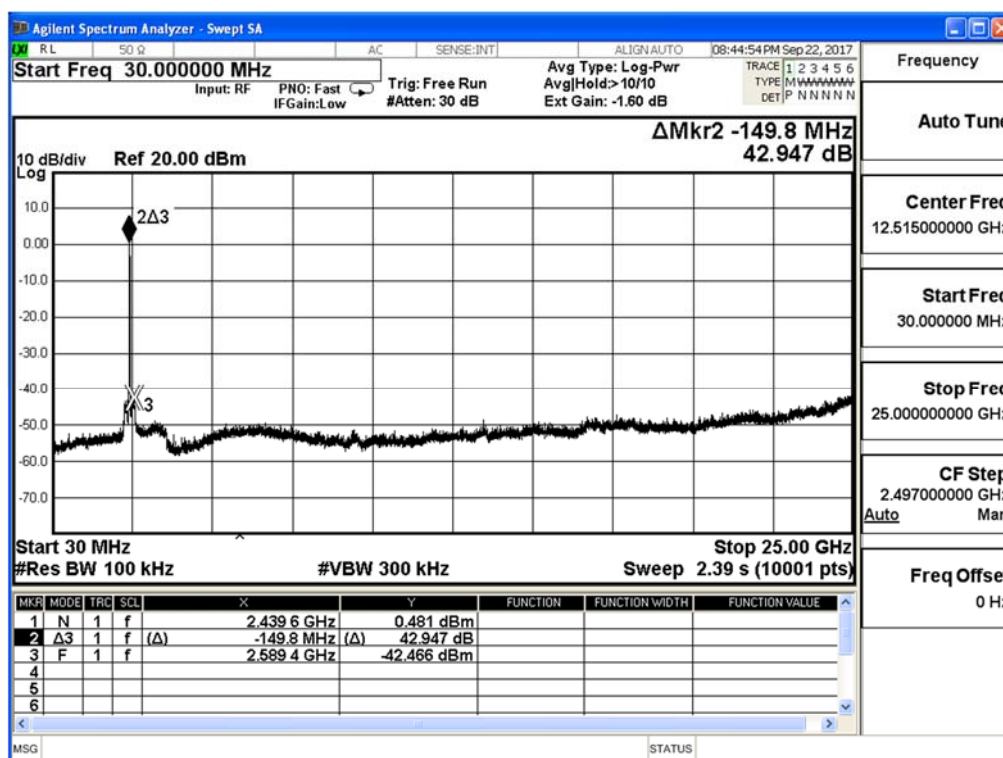
2462MHz (30MHz-25GHz)-802.11b (ANT 0)



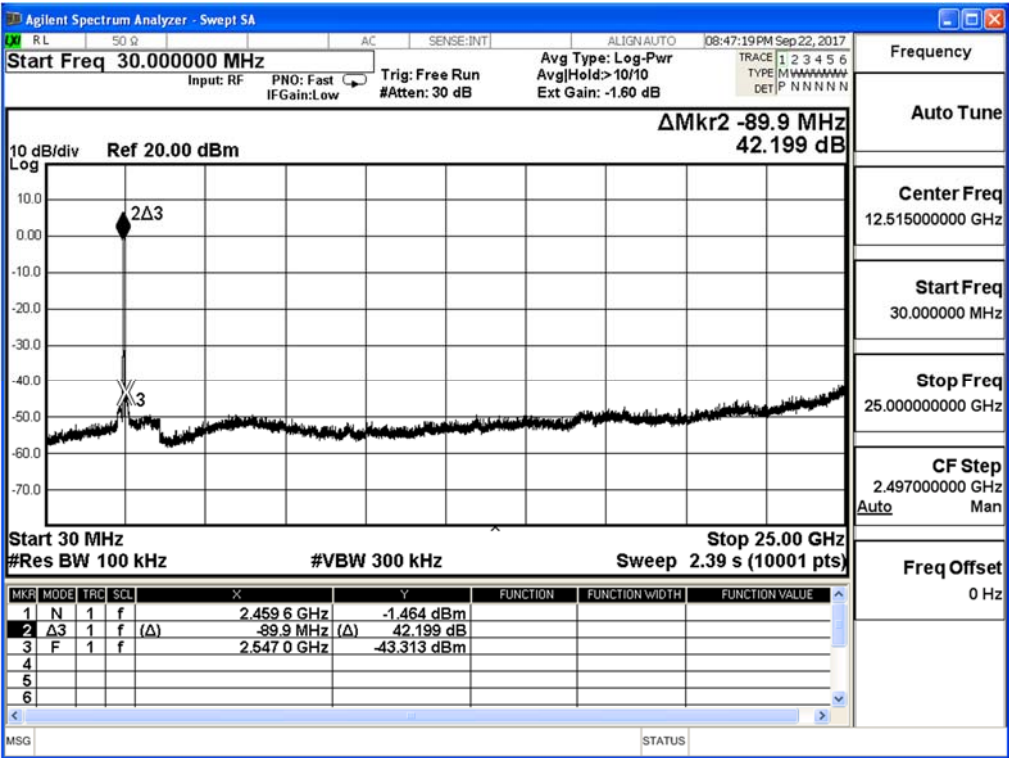
2412MHz (30MHz-25GHz)-802.11g (ANT 0)



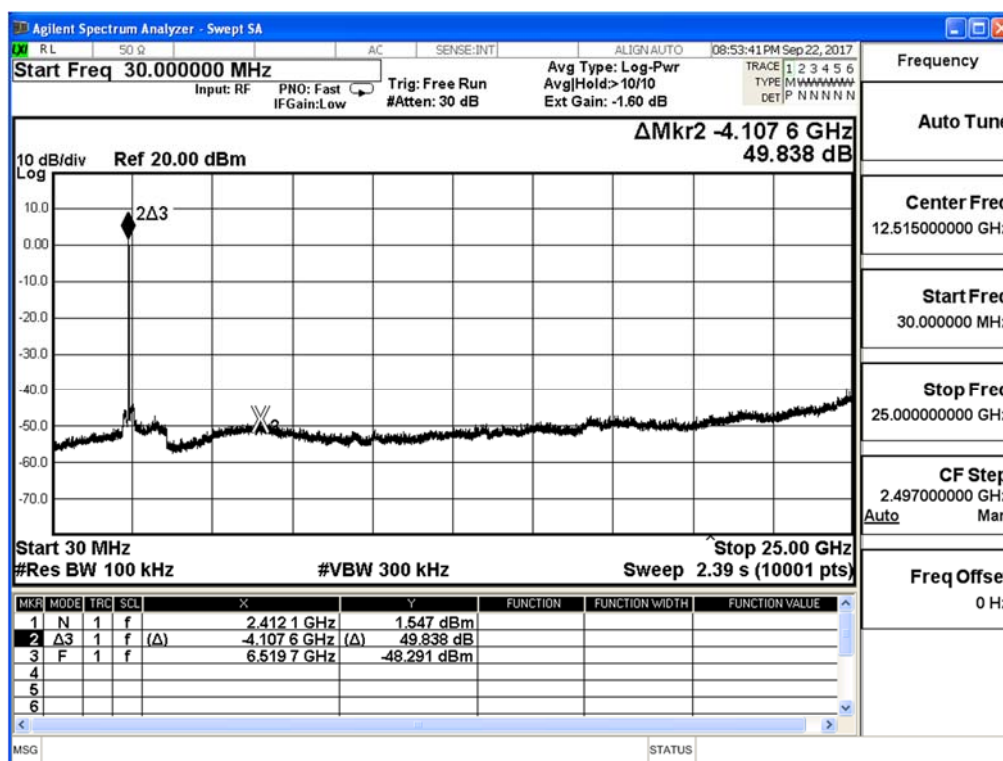
2437MHz (30MHz-25GHz)-802.11 g (ANT 0)



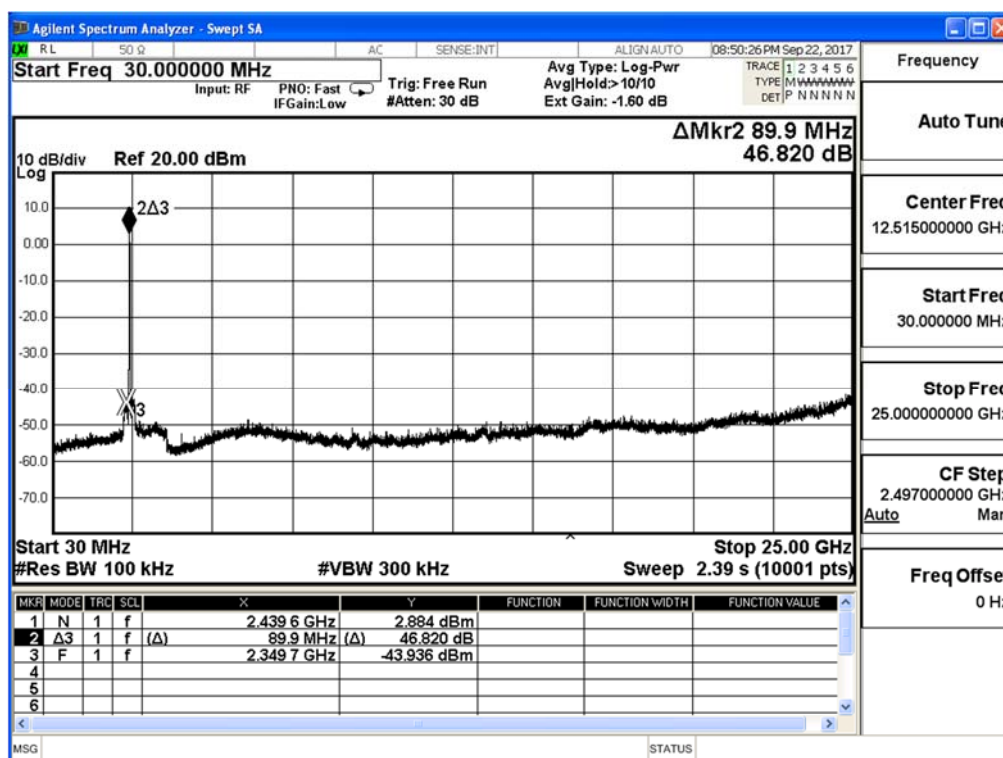
2462MHz (30MHz-25GHz)-802.11g (ANT 0)



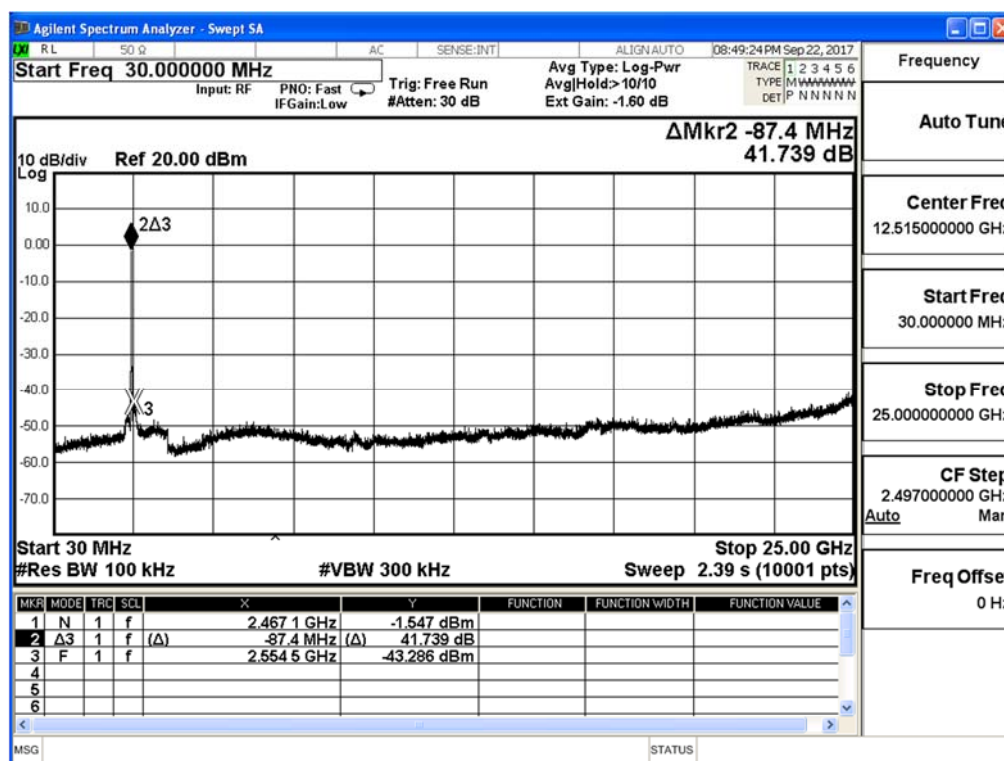
2412MHz (30MHz-25GHz)- IEEE802.11n 20MHz (ANT 0)



2437MHz (30MHz-25GHz)- IEEE802.11n 20MHz (ANT 0)



2462MHz (30MHz-25GHz)- IEEE802.11n 20MHz (ANT 0)



6. Band Edge

6.1. Test Equipment

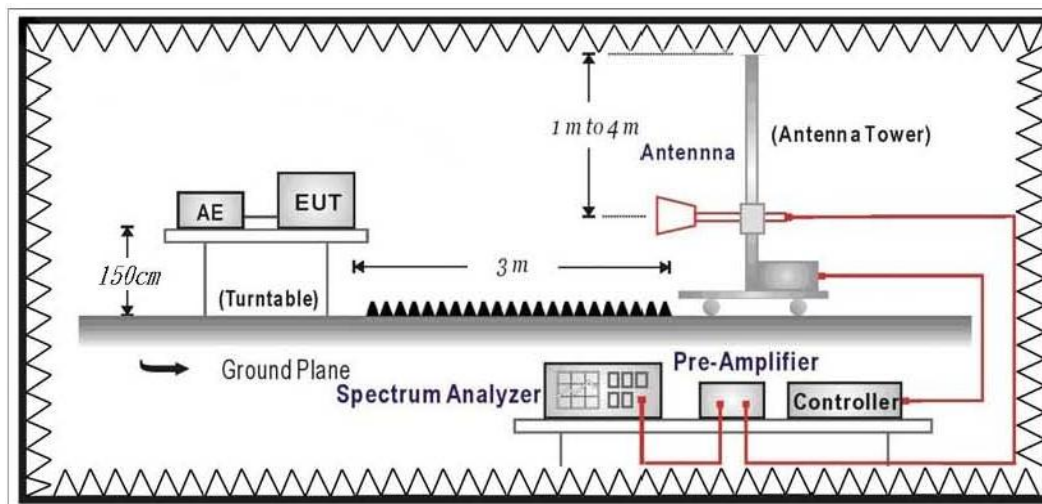
The following test equipments are used during the test:

Band Edge / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2016/11/28	2017/11/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/23	2018/01/22
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12
Bilog Antenna	Teseq	CBL6112D	23191	2017/06/28	2018/06/27
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2017/06/14	2018/06/13
Horn Antenna	Schwarzbeck	BBHA 9170	202	2017/02/15	2018/02/14
Pre-Amplifier	RF Bay Inc.	LNA-1330	12162511	2017/03/09	2018/03/08
Pre-Amplifier	EMCI	EMCI 1830I	980366	2017/01/23	2018/01/22
Pre-Amplifier	MITEQ	JS44-45-8P	2014754	2016/12/26	2017/12/25

Note: All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup



6.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.4. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT and its simulators are placed on a turn table which is 1.5 meter above ground.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated measurement.

6.5. Test Specification

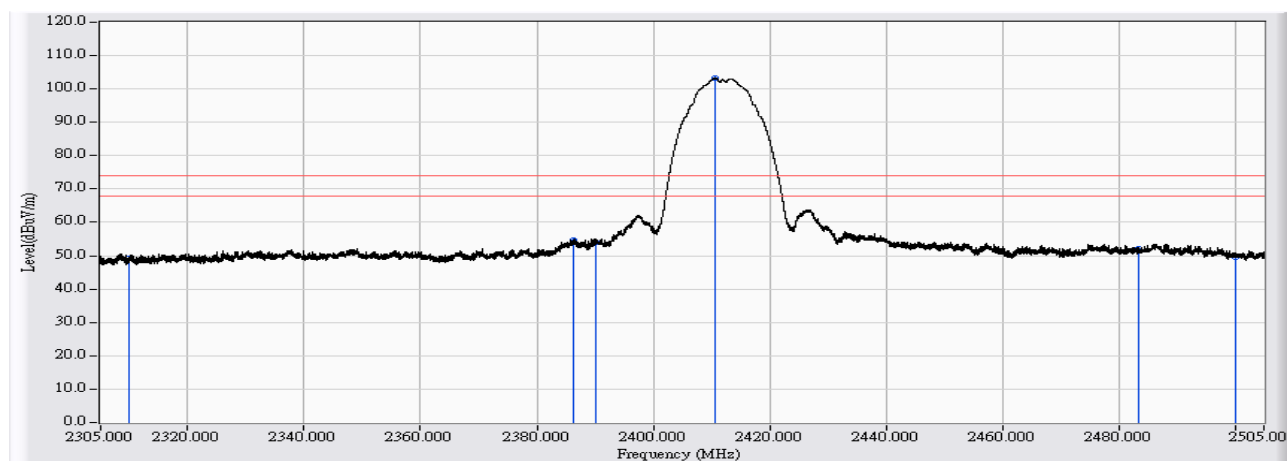
According to FCC Part 15 Subpart C Paragraph 15.247: 2017

6.6. Uncertainty

The measurement uncertainty
 ± 3.9 dB above 1GHz

6.7. Test Result

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2412MHz

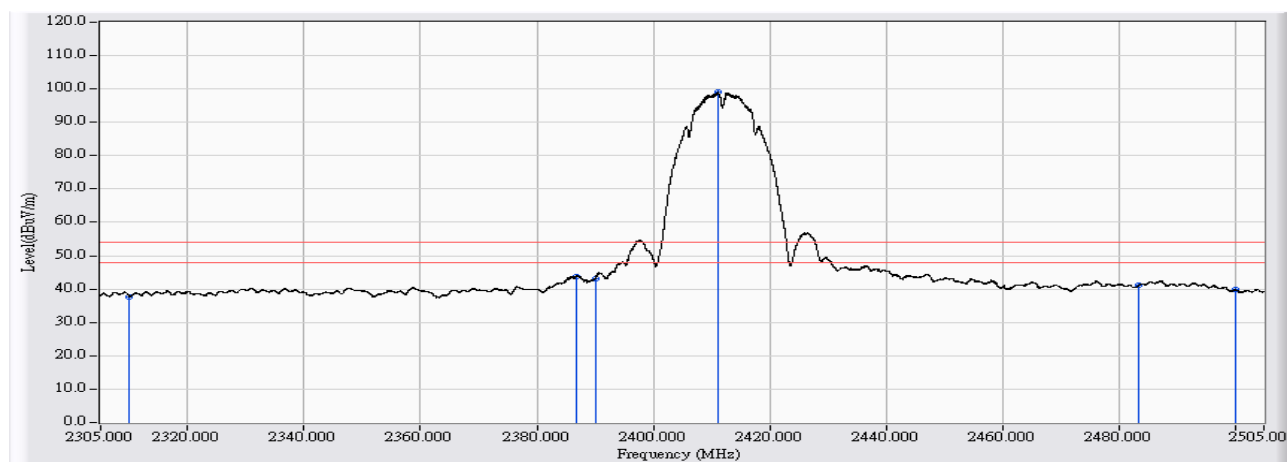


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	12.455	36.648	49.103	-24.897	74.000	PEAK
2	2386.352	13.094	41.704	54.797	-19.203	74.000	PEAK
3	2390.000	13.127	40.975	54.103	-19.897	74.000	PEAK
4	* 2410.669	13.174	89.986	103.160	29.160	74.000	PEAK
5	2483.500	13.725	38.488	52.213	-21.787	74.000	PEAK
6	2500.000	13.617	35.895	49.512	-24.488	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2412MHz

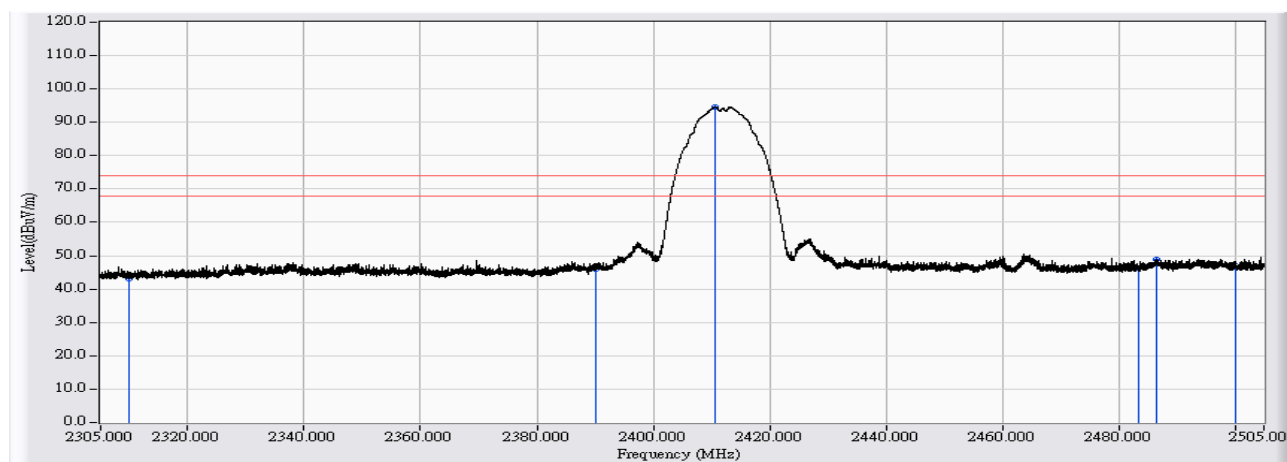


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	25.323	37.778	-16.222	54.000	AVERAGE
2		2386.692	13.096	30.663	43.760	-10.240	54.000	AVERAGE
3		2390.000	13.127	30.044	43.172	-10.828	54.000	AVERAGE
4	*	2411.149	13.174	85.926	99.101	45.101	54.000	AVERAGE
5		2483.500	13.725	27.296	41.021	-12.979	54.000	AVERAGE
6		2500.000	13.617	26.178	39.795	-14.205	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2412MHz

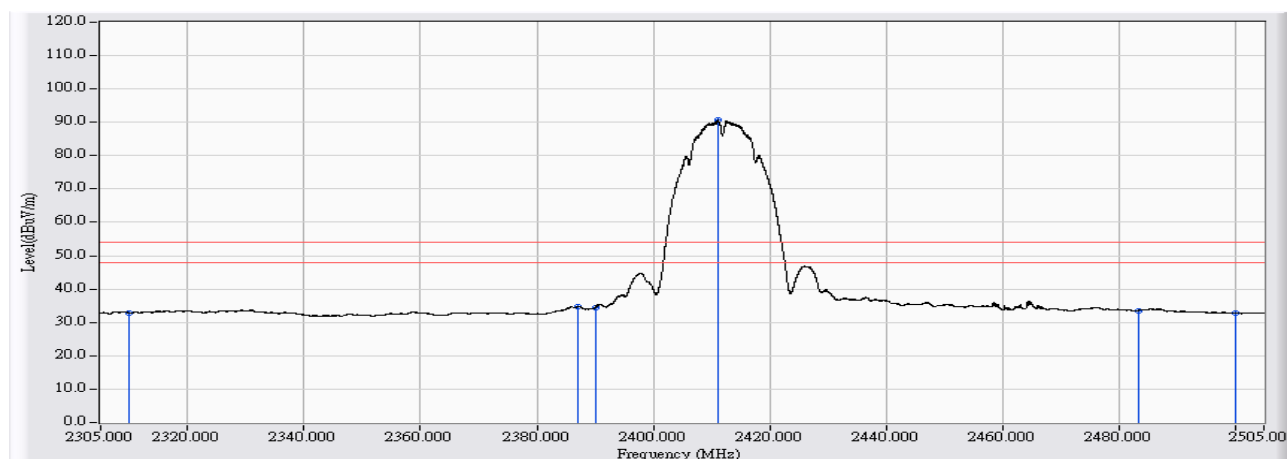


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	12.455	30.770	43.225	-30.775	74.000	PEAK
2	2390.000	13.127	32.979	46.107	-27.893	74.000	PEAK
3	* 2410.649	13.174	81.368	94.542	20.542	74.000	PEAK
4	2483.500	13.725	32.746	46.471	-27.529	74.000	PEAK
5	2486.522	13.719	35.115	48.835	-25.165	74.000	PEAK
6	2500.000	13.617	33.394	47.011	-26.989	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2412MHz

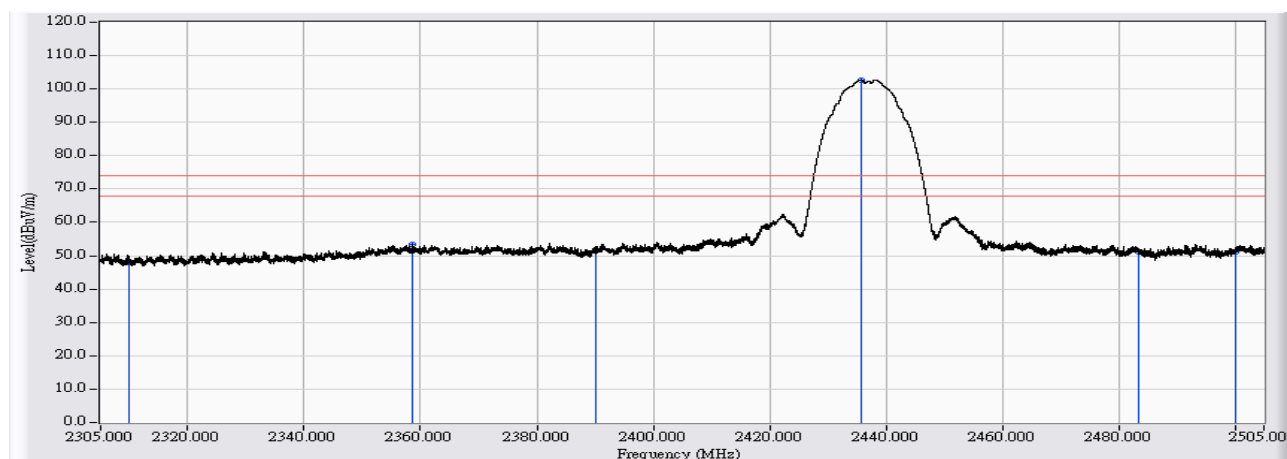


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	12.455	20.287	32.742	-21.258	54.000	AVERAGE
2	2386.932	13.099	21.671	34.770	-19.230	54.000	AVERAGE
3	2390.000	13.127	21.389	34.517	-19.483	54.000	AVERAGE
4	* 2411.109	13.174	77.499	90.674	36.674	54.000	AVERAGE
5	2483.500	13.725	19.875	33.600	-20.400	54.000	AVERAGE
6	2500.000	13.617	19.254	32.871	-21.129	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2437MHz

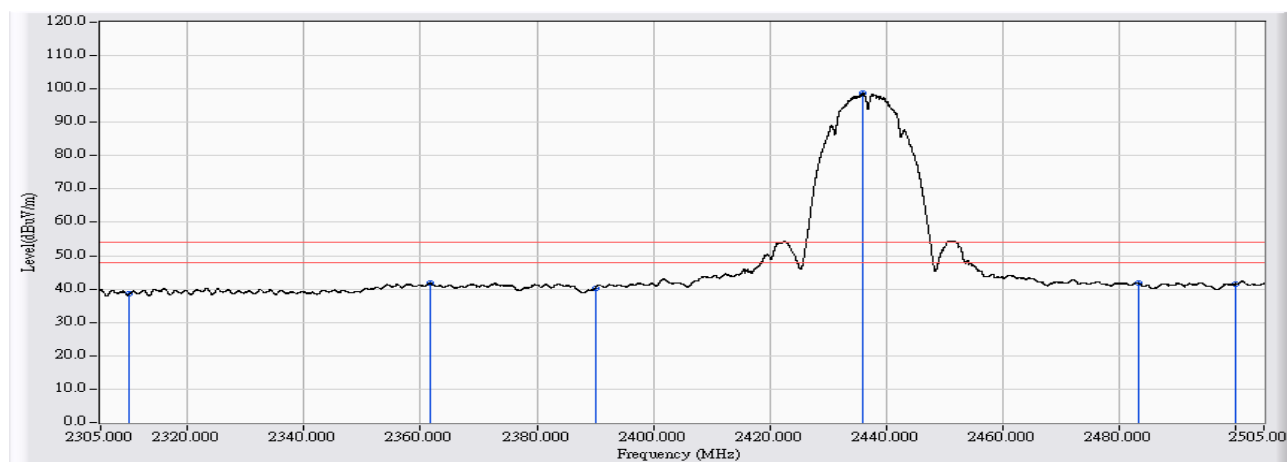


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	12.455	35.630	48.085	-25.915	74.000	PEAK
2	2358.715	12.898	40.646	53.545	-20.455	74.000	PEAK
3	2390.000	13.127	38.828	51.956	-22.044	74.000	PEAK
4	* 2435.787	13.344	89.432	102.775	28.775	74.000	PEAK
5	2483.500	13.725	37.535	51.260	-22.740	74.000	PEAK
6	2500.000	13.617	37.602	51.219	-22.781	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2437MHz

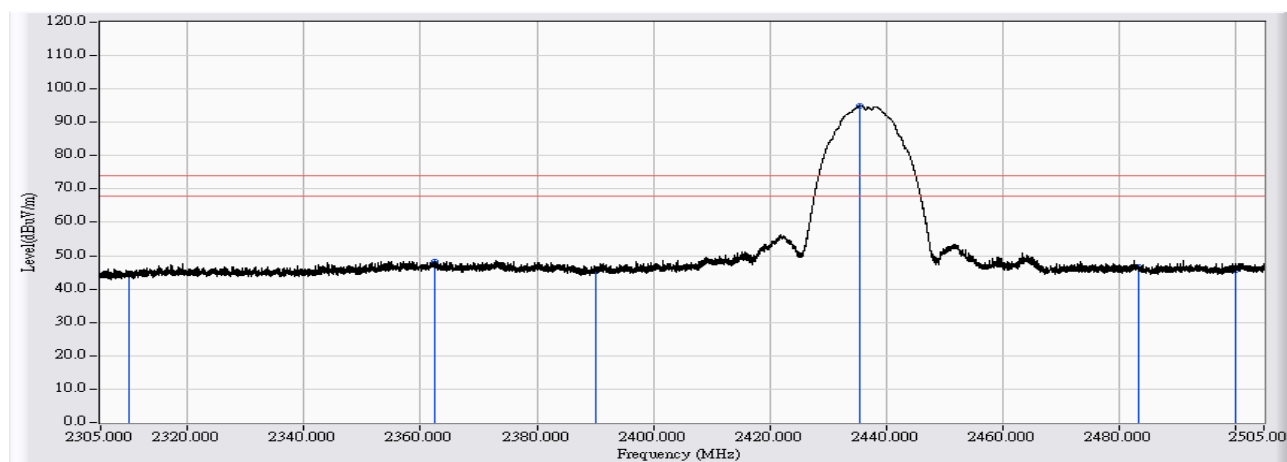


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	12.455	26.093	38.548	-15.452	54.000	AVERAGE
2	2361.594	12.917	28.845	41.762	-12.238	54.000	AVERAGE
3	2390.000	13.127	27.213	40.341	-13.659	54.000	AVERAGE
4	* 2436.127	13.347	85.425	98.772	44.772	54.000	AVERAGE
5	2483.500	13.725	27.980	41.705	-12.295	54.000	AVERAGE
6	2500.000	13.617	27.979	41.596	-12.404	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2437MHz

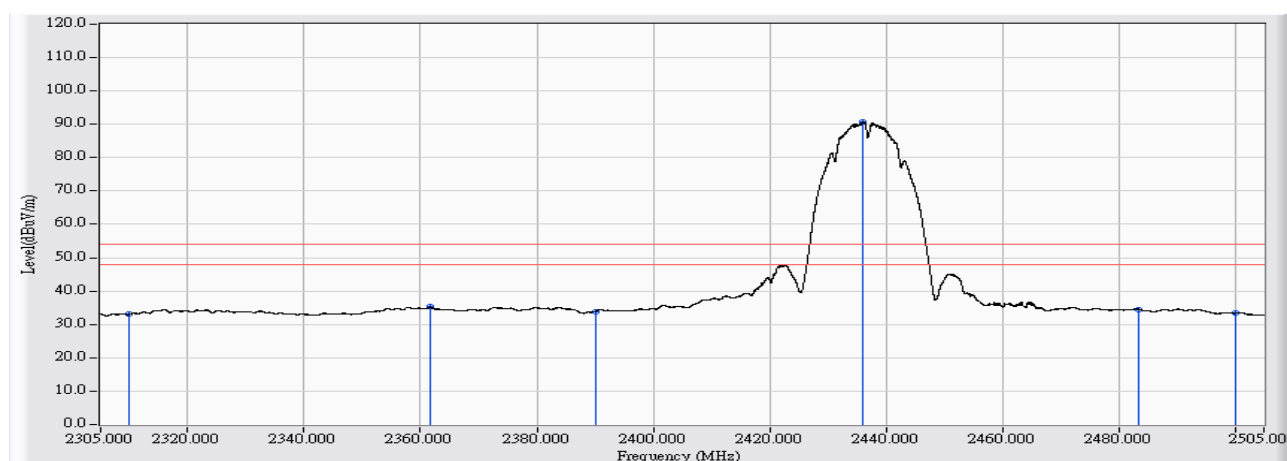


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	32.217	44.672	-29.328	74.000	PEAK
2		2362.494	12.924	35.358	48.281	-25.719	74.000	PEAK
3		2390.000	13.127	32.128	45.256	-28.744	74.000	PEAK
4	*	2435.607	13.341	81.625	94.966	20.966	74.000	PEAK
5		2483.500	13.725	32.819	46.544	-27.456	74.000	PEAK
6		2500.000	13.617	32.136	45.753	-28.247	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2437MHz

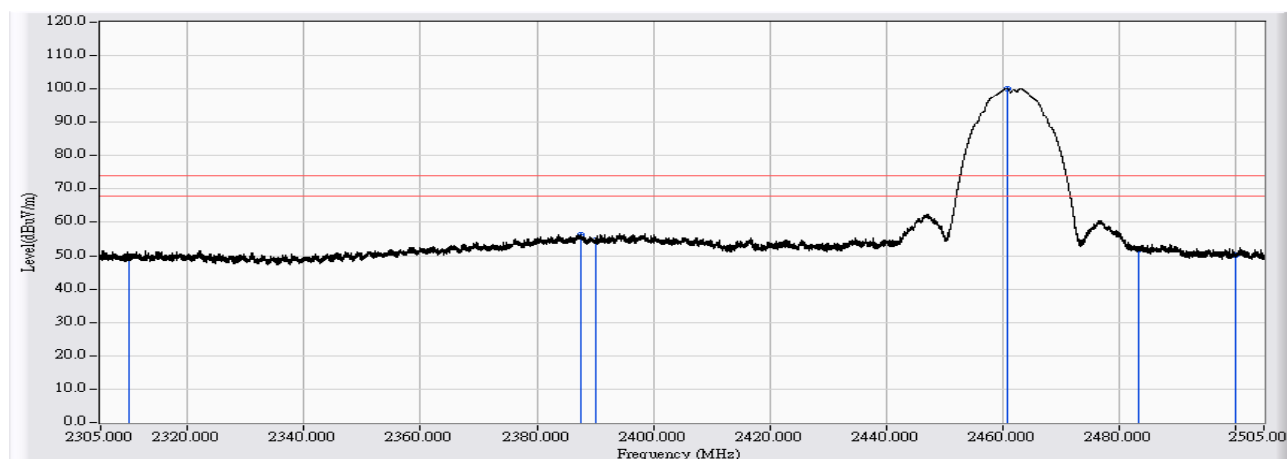


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	12.455	20.594	33.049	-20.951	54.000	AVERAGE
2	2361.554	12.917	22.340	35.257	-18.743	54.000	AVERAGE
3	2390.000	13.127	20.722	33.850	-20.150	54.000	AVERAGE
4	* 2436.087	13.347	77.453	90.800	36.800	54.000	AVERAGE
5	2483.500	13.725	20.734	34.459	-19.541	54.000	AVERAGE
6	2500.000	13.617	19.706	33.323	-20.677	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2462MHz

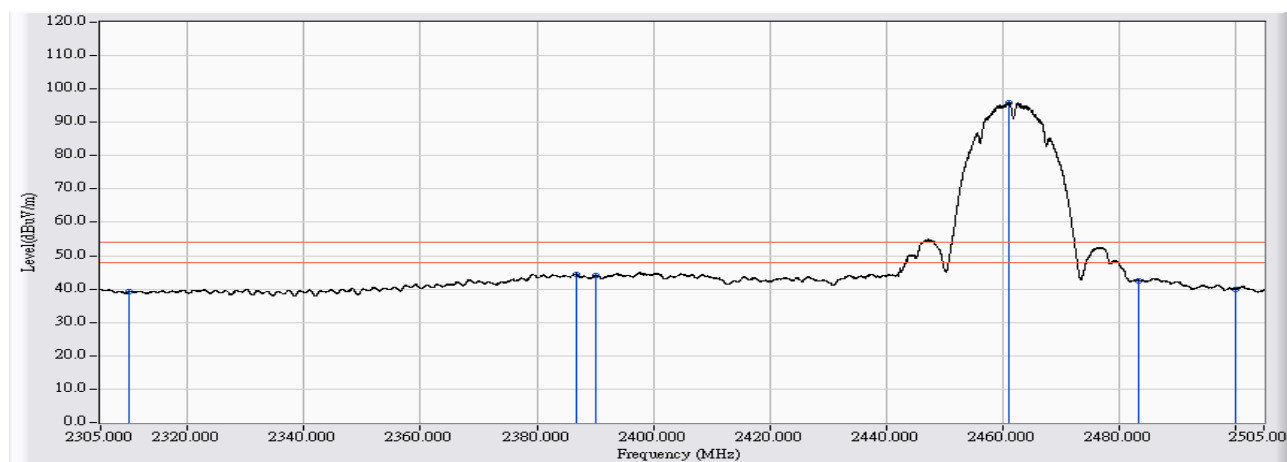


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	37.523	49.978	-24.022	74.000	PEAK
2		2387.492	13.104	43.268	56.372	-17.628	74.000	PEAK
3		2390.000	13.127	41.475	54.603	-19.397	74.000	PEAK
4	*	2460.804	13.518	86.630	100.148	26.148	74.000	PEAK
5		2483.500	13.725	38.153	51.878	-22.122	74.000	PEAK
6		2500.000	13.617	36.453	50.070	-23.930	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2462MHz

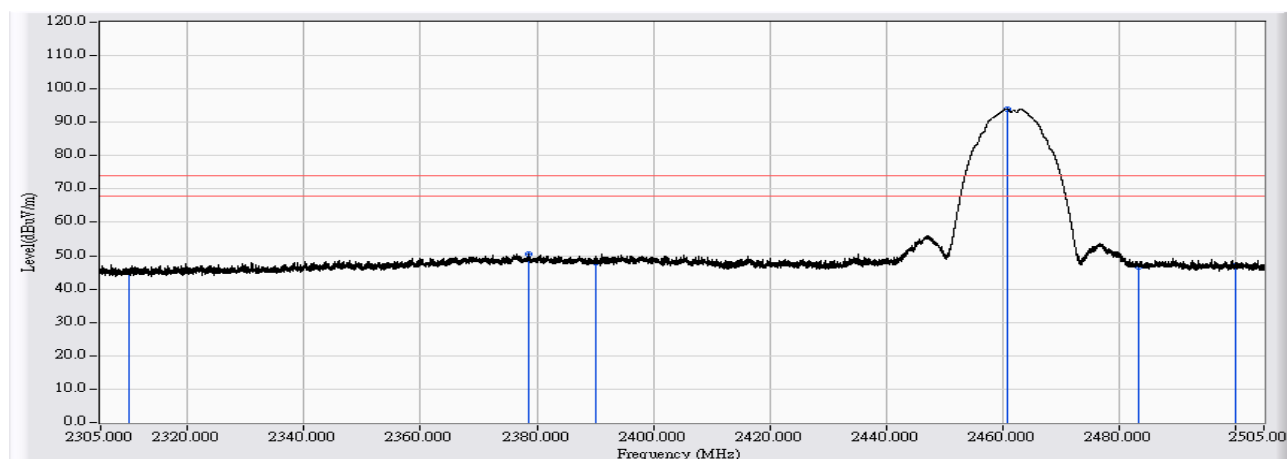


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	12.455	26.757	39.212	-14.788	54.000	AVERAGE
2	2386.672	13.096	31.447	44.543	-9.457	54.000	AVERAGE
3	2390.000	13.127	31.044	44.172	-9.828	54.000	AVERAGE
4	* 2461.084	13.517	82.472	95.989	41.989	54.000	AVERAGE
5	2483.500	13.725	28.831	42.556	-11.444	54.000	AVERAGE
6	2500.000	13.617	26.374	39.991	-14.009	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2462MHz

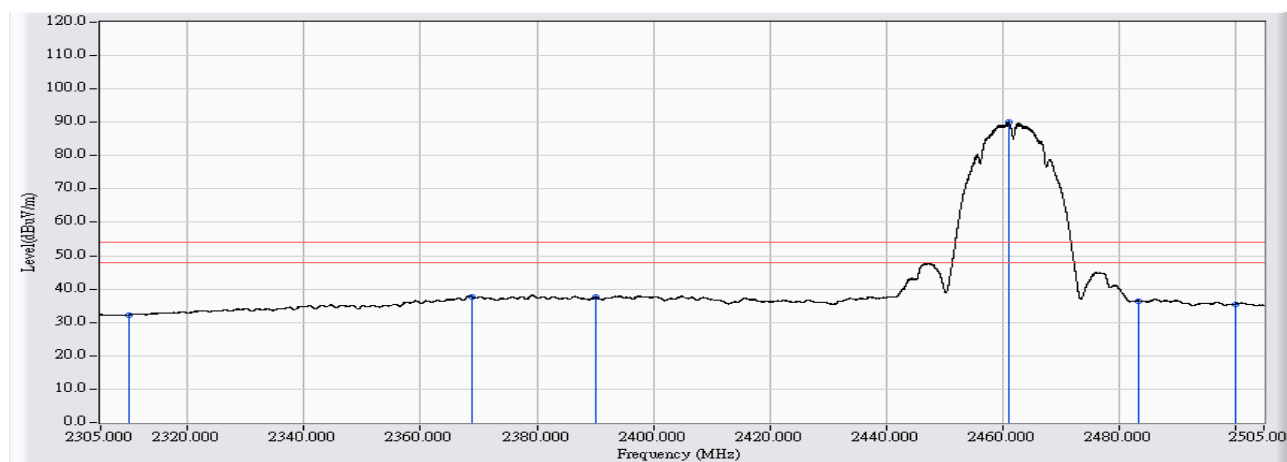


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	12.455	32.474	44.929	-29.071	74.000	PEAK
2	2378.693	12.991	37.524	50.515	-23.485	74.000	PEAK
3	2390.000	13.127	34.876	48.004	-25.996	74.000	PEAK
4	* 2460.784	13.518	80.551	94.069	20.069	74.000	PEAK
5	2483.500	13.725	32.922	46.647	-27.353	74.000	PEAK
6	2500.000	13.617	33.295	46.912	-27.088	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11b_2462MHz

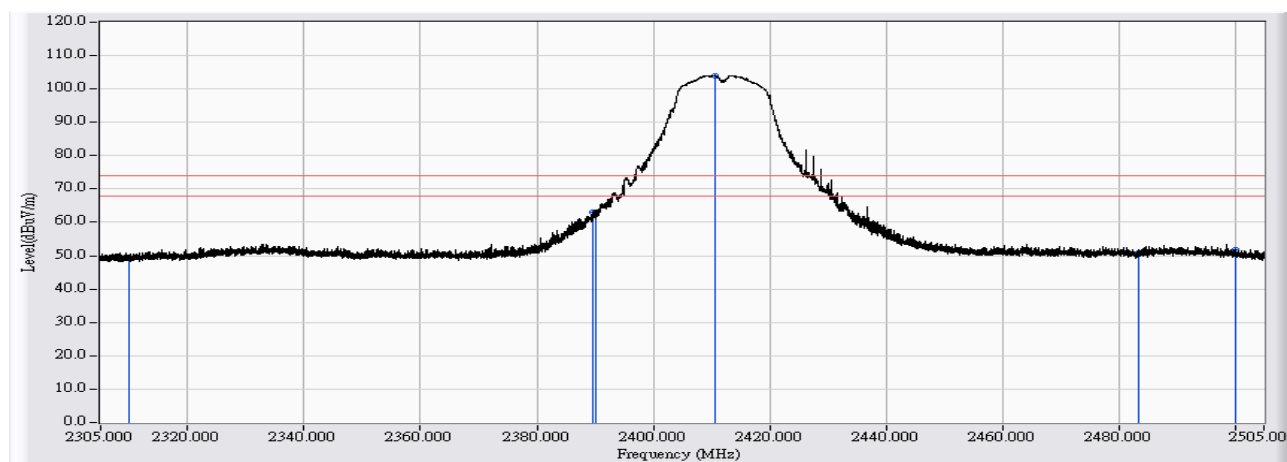


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	19.845	32.300	-21.700	54.000	AVERAGE
2		2368.734	12.922	24.833	37.755	-16.245	54.000	AVERAGE
3		2390.000	13.127	24.412	37.540	-16.460	54.000	AVERAGE
4	*	2461.064	13.518	76.563	90.080	36.080	54.000	AVERAGE
5		2483.500	13.725	22.767	36.492	-17.508	54.000	AVERAGE
6		2500.000	13.617	21.753	35.370	-18.630	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2412MHz

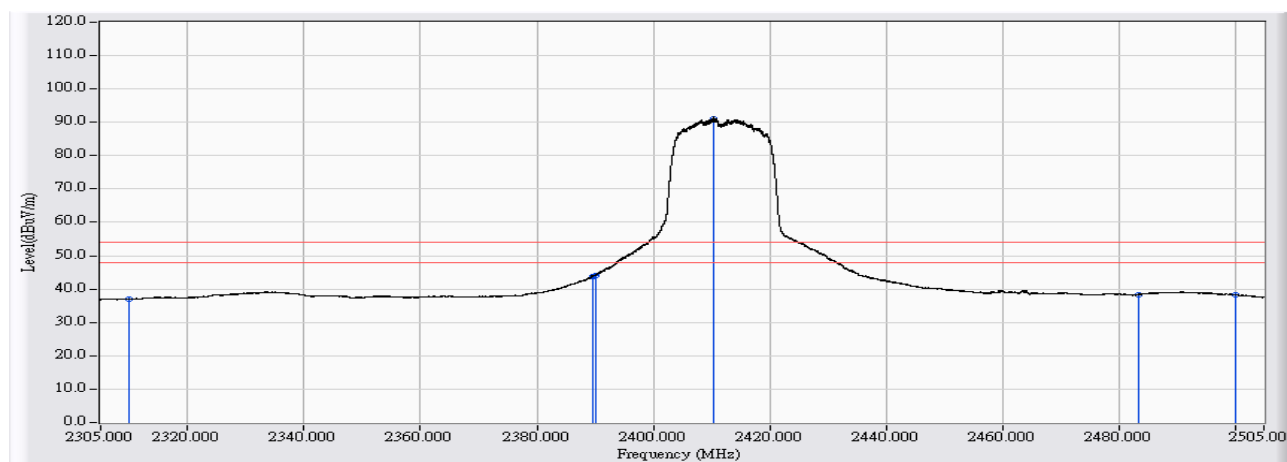


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	36.886	49.341	-24.659	74.000	PEAK
2		2389.671	13.125	49.923	63.048	-10.952	74.000	PEAK
3		2390.000	13.127	49.392	62.520	-11.480	74.000	PEAK
4	*	2410.709	13.175	90.870	104.044	30.044	74.000	PEAK
5		2483.500	13.725	36.953	50.678	-23.322	74.000	PEAK
6		2500.000	13.617	38.023	51.640	-22.360	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2412MHz

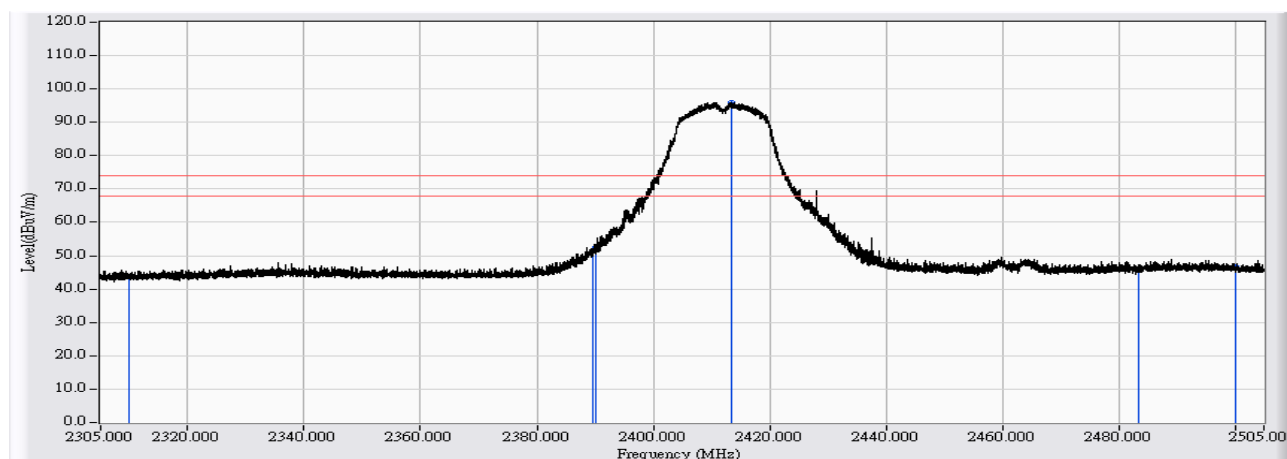


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	24.532	36.987	-17.013	54.000	AVERAGE
2		2389.491	13.123	30.640	43.763	-10.237	54.000	AVERAGE
3		2390.000	13.127	31.058	44.186	-9.814	54.000	AVERAGE
4	*	2410.409	13.173	77.949	91.123	37.123	54.000	AVERAGE
5		2483.500	13.725	24.705	38.430	-15.570	54.000	AVERAGE
6		2500.000	13.617	24.646	38.263	-15.737	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2412MHz

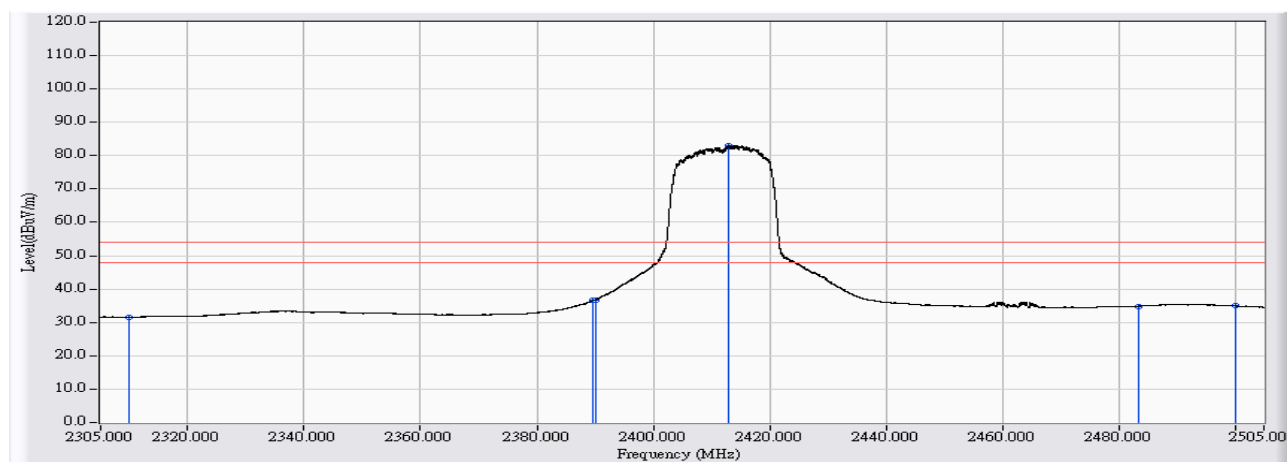


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	31.286	43.741	-30.259	74.000	PEAK
2		2389.491	13.123	38.345	51.468	-22.532	74.000	PEAK
3		2390.000	13.127	39.161	52.289	-21.711	74.000	PEAK
4	*	2413.409	13.178	82.807	95.985	21.985	74.000	PEAK
5		2483.500	13.725	32.203	45.928	-28.072	74.000	PEAK
6		2500.000	13.617	33.086	46.703	-27.297	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2412MHz

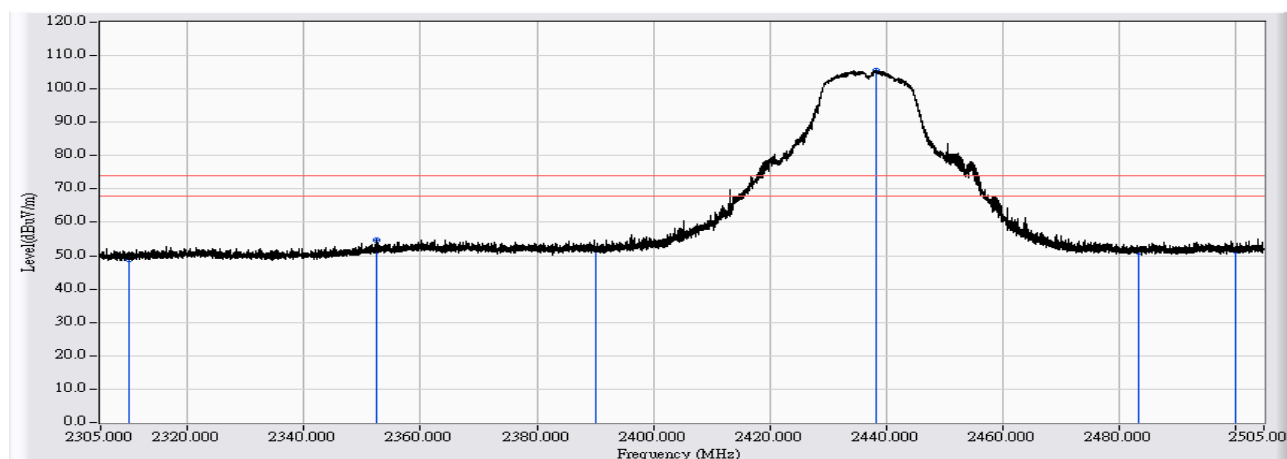


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	19.139	31.594	-22.406	54.000	AVERAGE
2		2389.491	13.123	23.446	36.569	-17.431	54.000	AVERAGE
3		2390.000	13.127	23.703	36.831	-17.169	54.000	AVERAGE
4	*	2413.049	13.178	69.854	83.032	29.032	54.000	AVERAGE
5		2483.500	13.725	21.119	34.844	-19.156	54.000	AVERAGE
6		2500.000	13.617	21.408	35.025	-18.975	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2437MHz

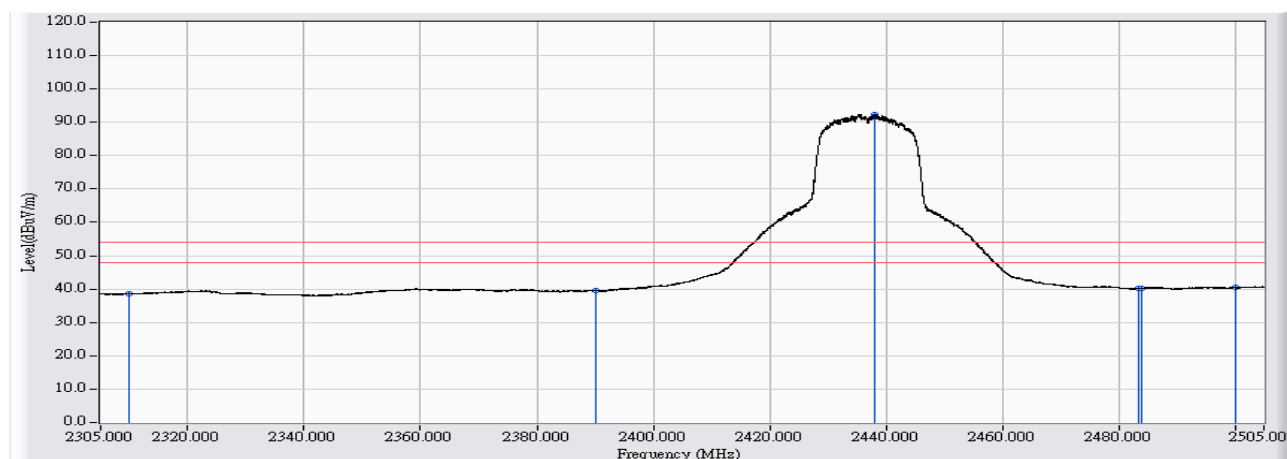


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	36.579	49.034	-24.966	74.000	PEAK
2		2352.315	12.807	41.901	54.709	-19.291	74.000	PEAK
3		2390.000	13.127	39.104	52.232	-21.768	74.000	PEAK
4	*	2438.227	13.371	92.119	105.489	31.489	74.000	PEAK
5		2483.500	13.725	37.484	51.209	-22.791	74.000	PEAK
6		2500.000	13.617	37.785	51.402	-22.598	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2437MHz

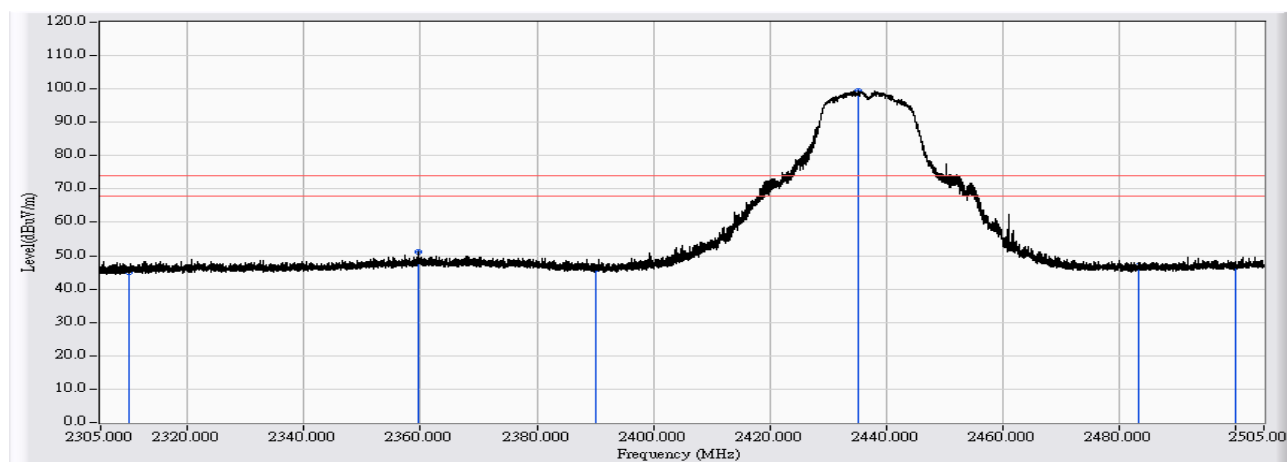


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	26.103	38.558	-15.442	54.000	AVERAGE
2		2390.000	13.127	26.367	39.495	-14.505	54.000	AVERAGE
3	*	2438.187	13.370	79.078	92.448	38.448	54.000	AVERAGE
4		2483.500	13.725	26.561	40.286	-13.714	54.000	AVERAGE
5		2483.882	13.728	26.528	40.255	-13.745	54.000	AVERAGE
6		2500.000	13.617	26.796	40.413	-13.587	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2437MHz

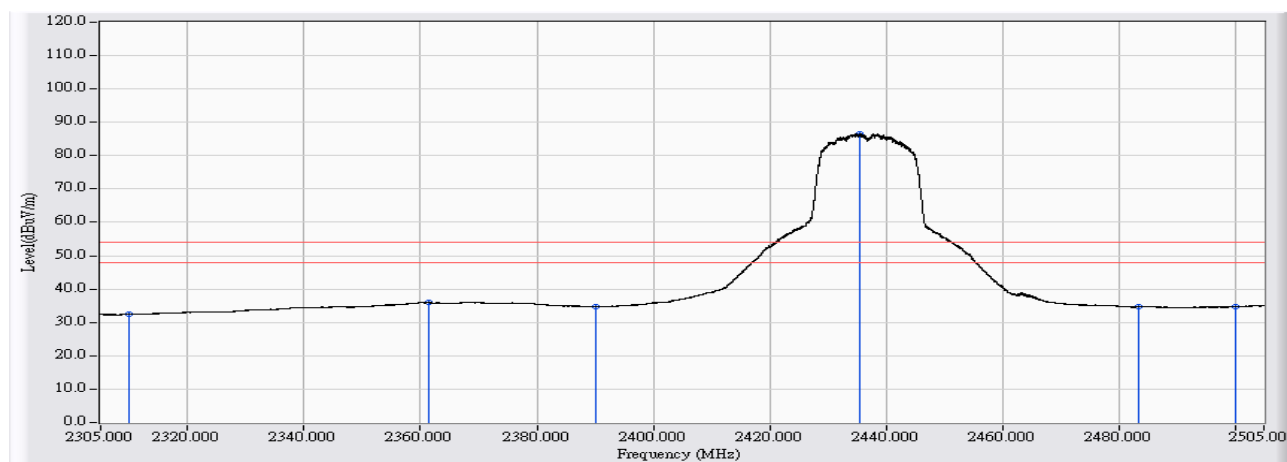


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	32.596	45.051	-28.949	74.000	PEAK
2		2359.514	12.904	38.163	51.067	-22.933	74.000	PEAK
3		2390.000	13.127	32.983	46.111	-27.889	74.000	PEAK
4	*	2435.207	13.337	85.992	99.329	25.329	74.000	PEAK
5		2483.500	13.725	33.380	47.105	-26.895	74.000	PEAK
6		2500.000	13.617	33.144	46.761	-27.239	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2437MHz

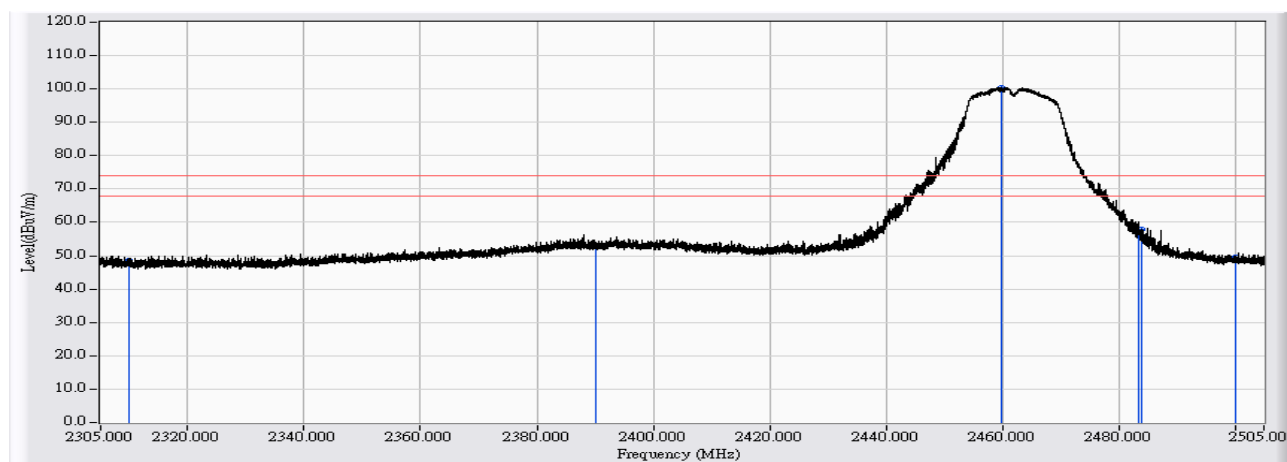


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	19.970	32.425	-21.575	54.000	AVERAGE
2		2361.294	12.916	23.048	35.963	-18.037	54.000	AVERAGE
3		2390.000	13.127	21.626	34.754	-19.246	54.000	AVERAGE
4	*	2435.567	13.341	73.226	86.567	32.567	54.000	AVERAGE
5		2483.500	13.725	20.964	34.689	-19.311	54.000	AVERAGE
6		2500.000	13.617	21.092	34.709	-19.291	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2462MHz

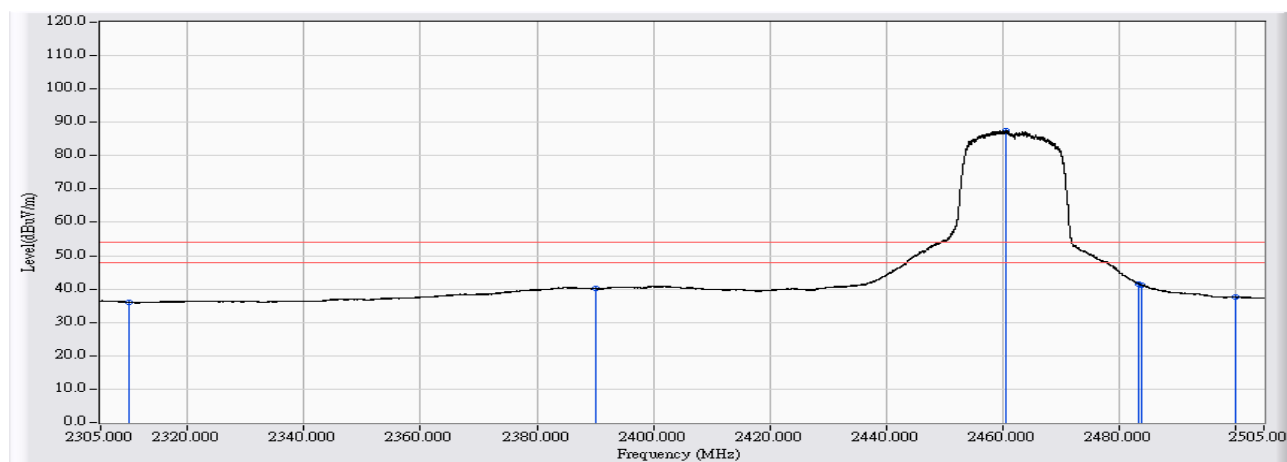


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	36.136	48.591	-25.409	74.000	PEAK
2		2390.000	13.127	40.085	53.213	-20.787	74.000	PEAK
3	*	2459.944	13.522	86.936	100.458	26.458	74.000	PEAK
4		2483.500	13.725	43.451	57.176	-16.824	74.000	PEAK
5		2483.882	13.728	44.148	57.875	-16.125	74.000	PEAK
6		2500.000	13.617	35.968	49.585	-24.415	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2462MHz

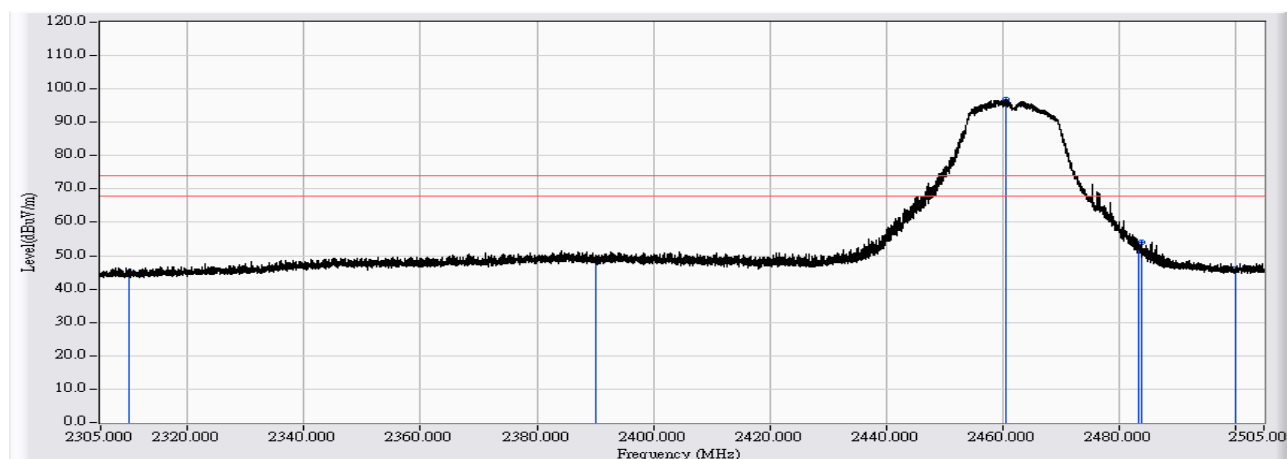


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	23.603	36.058	-17.942	54.000	AVERAGE
2		2390.000	13.127	26.978	40.106	-13.894	54.000	AVERAGE
3	*	2460.724	13.519	74.149	87.667	33.667	54.000	AVERAGE
4		2483.500	13.725	27.835	41.560	-12.440	54.000	AVERAGE
5		2483.882	13.728	27.550	41.277	-12.723	54.000	AVERAGE
6		2500.000	13.617	23.952	37.569	-16.431	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2462MHz

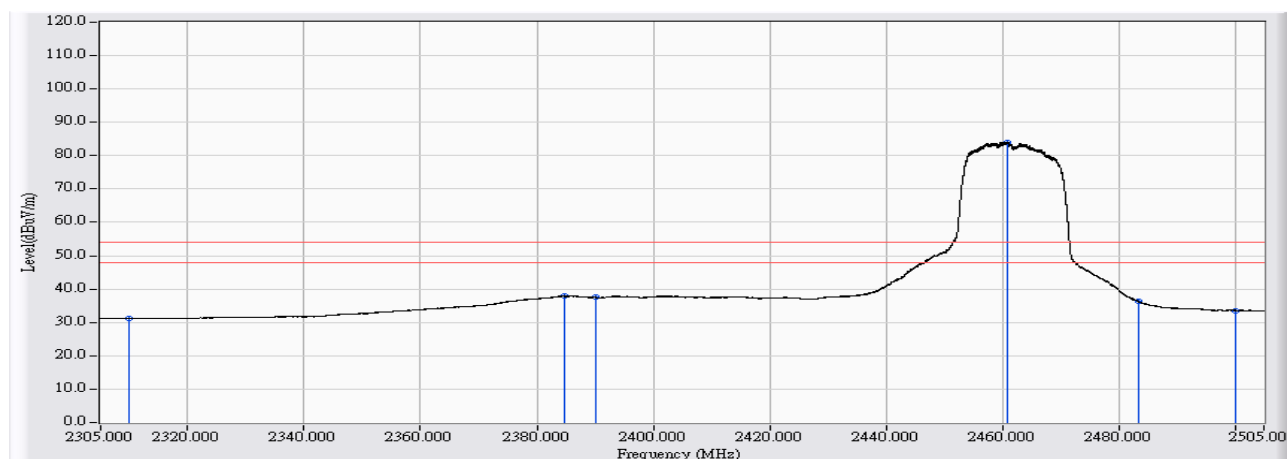


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	32.682	45.137	-28.863	74.000	PEAK
2		2390.000	13.127	35.480	48.608	-25.392	74.000	PEAK
3	*	2460.584	13.519	83.211	96.730	22.730	74.000	PEAK
4		2483.500	13.725	38.449	52.174	-21.826	74.000	PEAK
5		2483.982	13.728	40.237	53.965	-20.035	74.000	PEAK
6		2500.000	13.617	32.286	45.903	-28.097	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11g_2462MHz

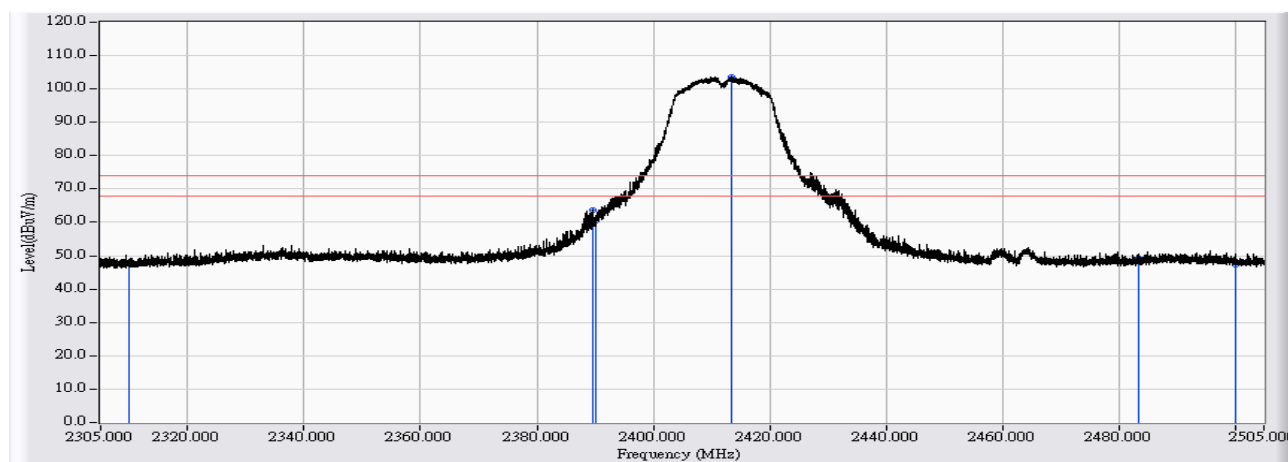


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	18.708	31.163	-22.837	54.000	AVERAGE
2		2384.632	13.072	24.731	37.803	-16.197	54.000	AVERAGE
3		2390.000	13.127	24.381	37.509	-16.491	54.000	AVERAGE
4	*	2460.824	13.518	70.588	84.106	30.106	54.000	AVERAGE
5		2483.500	13.725	22.547	36.272	-17.728	54.000	AVERAGE
6		2500.000	13.617	19.961	33.578	-20.422	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2412MHz

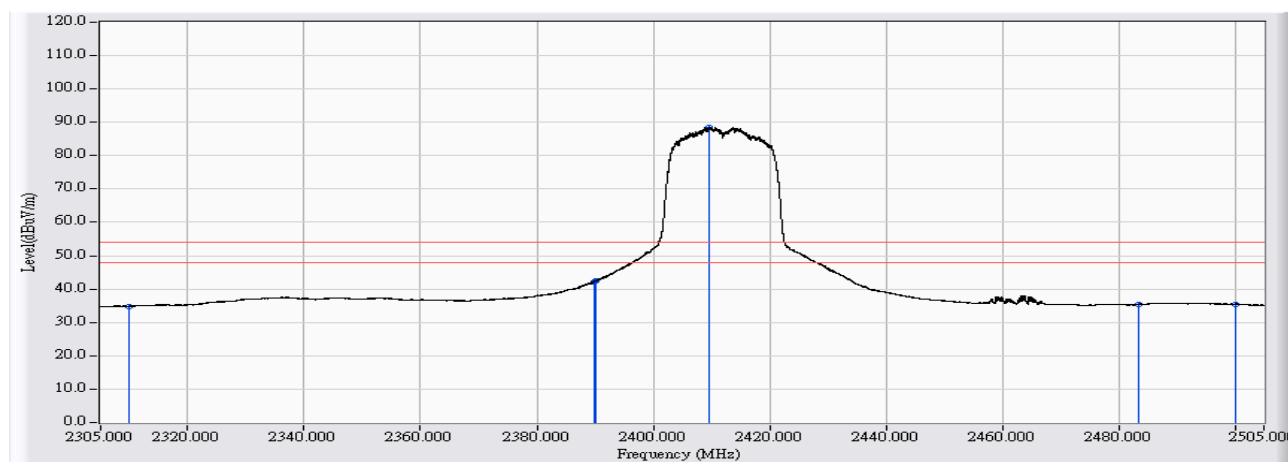


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	35.179	47.634	-26.366	74.000	PEAK
2		2389.631	13.125	50.615	63.739	-10.261	74.000	PEAK
3		2390.000	13.127	47.376	60.504	-13.496	74.000	PEAK
4	*	2413.569	13.178	90.288	103.467	29.467	74.000	PEAK
5		2483.500	13.725	35.603	49.328	-24.672	74.000	PEAK
6		2500.000	13.617	33.638	47.255	-26.745	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2412MHz

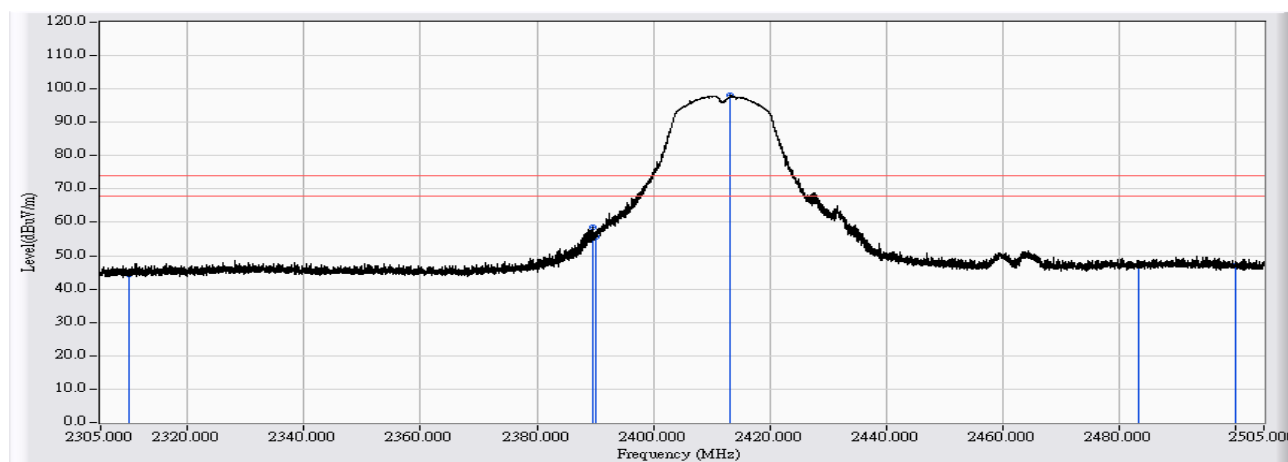


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	22.341	34.796	-19.204	54.000	AVERAGE
2		2389.771	13.125	29.142	42.267	-11.733	54.000	AVERAGE
3		2390.000	13.127	29.304	42.432	-11.568	54.000	AVERAGE
4	*	2409.609	13.173	75.263	88.435	34.435	54.000	AVERAGE
5		2483.500	13.725	21.746	35.471	-18.529	54.000	AVERAGE
6		2500.000	13.617	21.917	35.534	-18.466	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2412MHz

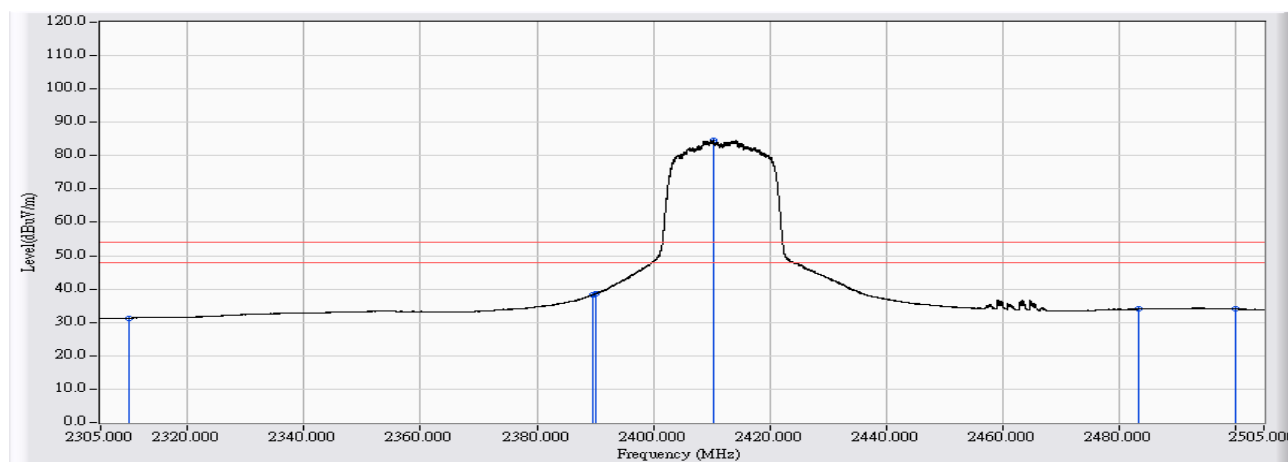


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	31.968	44.423	-29.577	74.000	PEAK
2		2389.651	13.125	45.546	58.670	-15.330	74.000	PEAK
3		2390.000	13.127	42.584	55.712	-18.288	74.000	PEAK
4	*	2413.189	13.178	84.911	98.089	24.089	74.000	PEAK
5		2483.500	13.725	33.388	47.113	-26.887	74.000	PEAK
6		2500.000	13.617	33.505	47.122	-26.878	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2412MHz

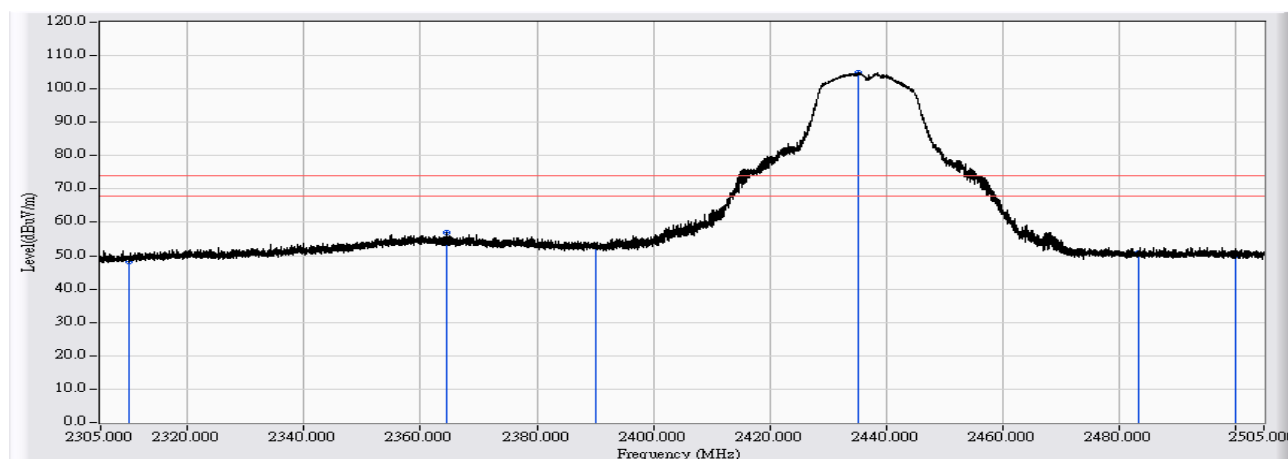


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	18.827	31.282	-22.718	54.000	AVERAGE
2		2389.691	13.125	25.176	38.301	-15.699	54.000	AVERAGE
3		2390.000	13.127	25.364	38.492	-15.508	54.000	AVERAGE
4	*	2410.349	13.173	71.501	84.675	30.675	54.000	AVERAGE
5		2483.500	13.725	20.257	33.982	-20.018	54.000	AVERAGE
6		2500.000	13.617	20.369	33.986	-20.014	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2437MHz

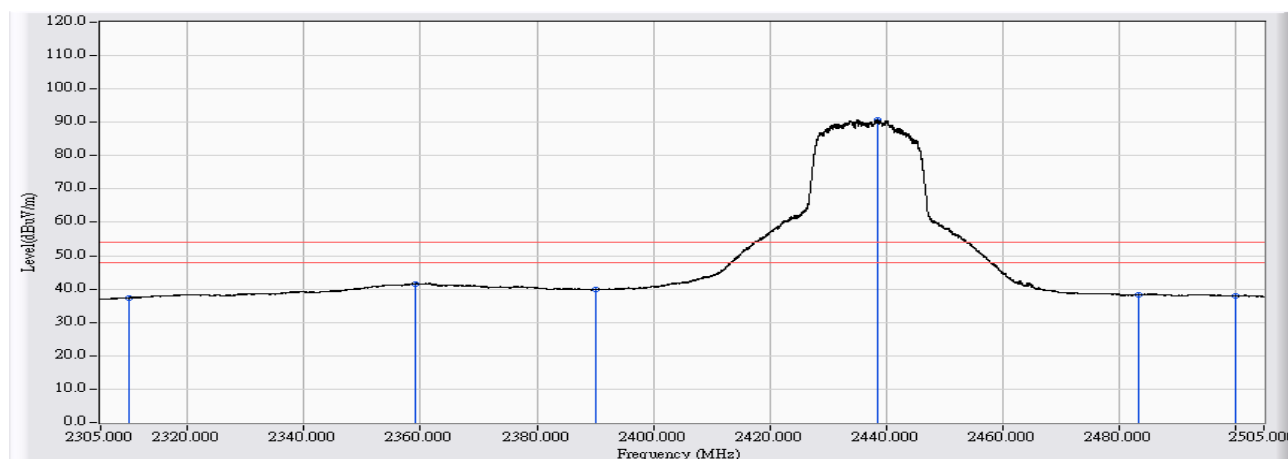


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	12.455	35.650	48.105	-25.895	74.000	PEAK
2	2364.374	12.936	43.975	56.910	-17.090	74.000	PEAK
3	2390.000	13.127	39.490	52.618	-21.382	74.000	PEAK
4	* 2435.287	13.338	91.535	104.873	30.873	74.000	PEAK
5	2483.500	13.725	36.983	50.708	-23.292	74.000	PEAK
6	2500.000	13.617	36.529	50.146	-23.854	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2437MHz

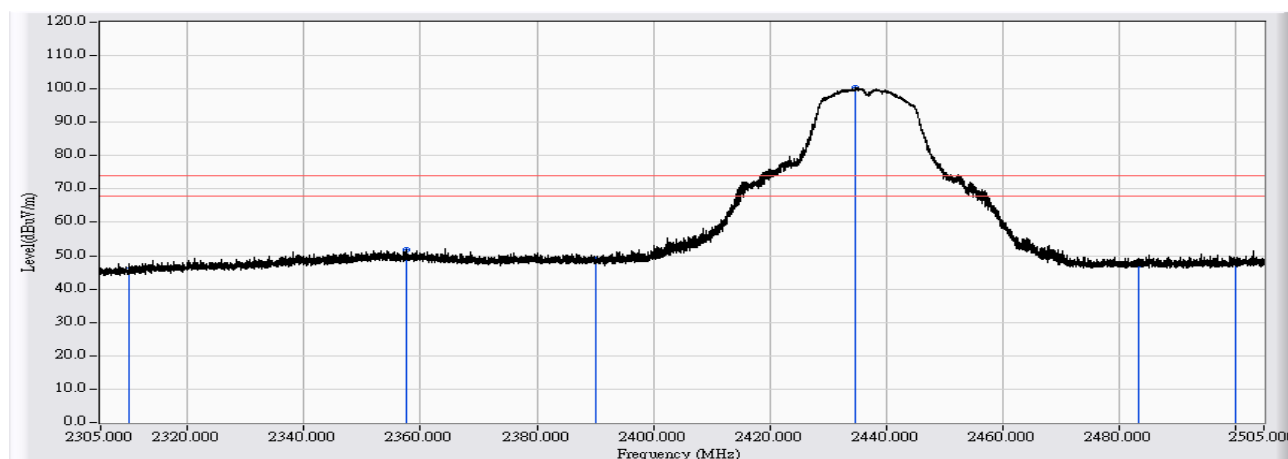


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	12.455	24.930	37.385	-16.615	54.000	AVERAGE
2	2358.975	12.900	28.549	41.449	-12.551	54.000	AVERAGE
3	2390.000	13.127	26.771	39.899	-14.101	54.000	AVERAGE
4	* 2438.587	13.374	77.300	90.674	36.674	54.000	AVERAGE
5	2483.500	13.725	24.606	38.331	-15.669	54.000	AVERAGE
6	2500.000	13.617	24.360	37.977	-16.023	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2437MHz

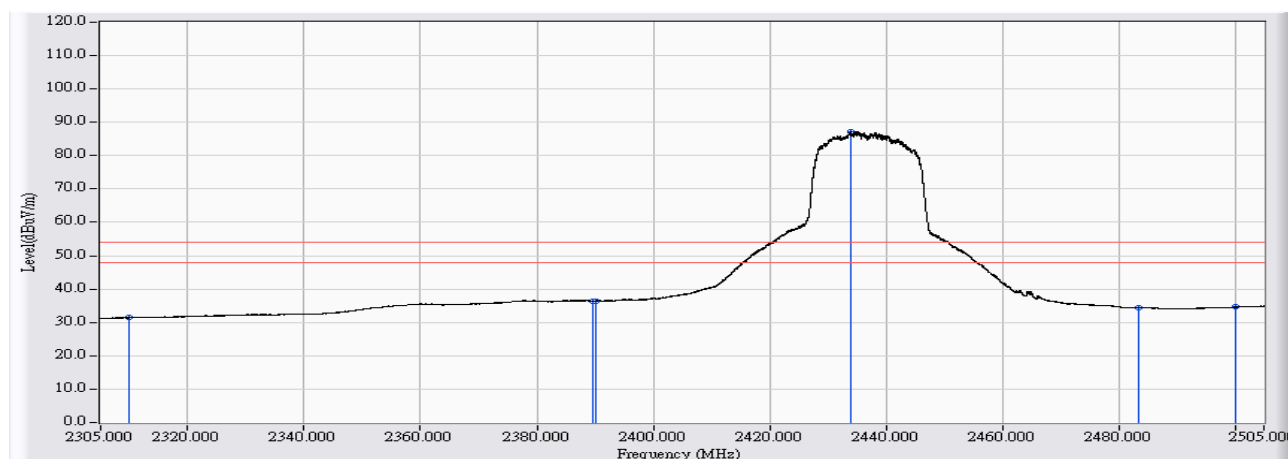


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	33.070	45.525	-28.475	74.000	PEAK
2		2357.675	12.890	39.044	51.933	-22.067	74.000	PEAK
3		2390.000	13.127	35.653	48.781	-25.219	74.000	PEAK
4	*	2434.827	13.334	87.070	100.404	26.404	74.000	PEAK
5		2483.500	13.725	33.708	47.433	-26.567	74.000	PEAK
6		2500.000	13.617	34.233	47.850	-26.150	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2437MHz

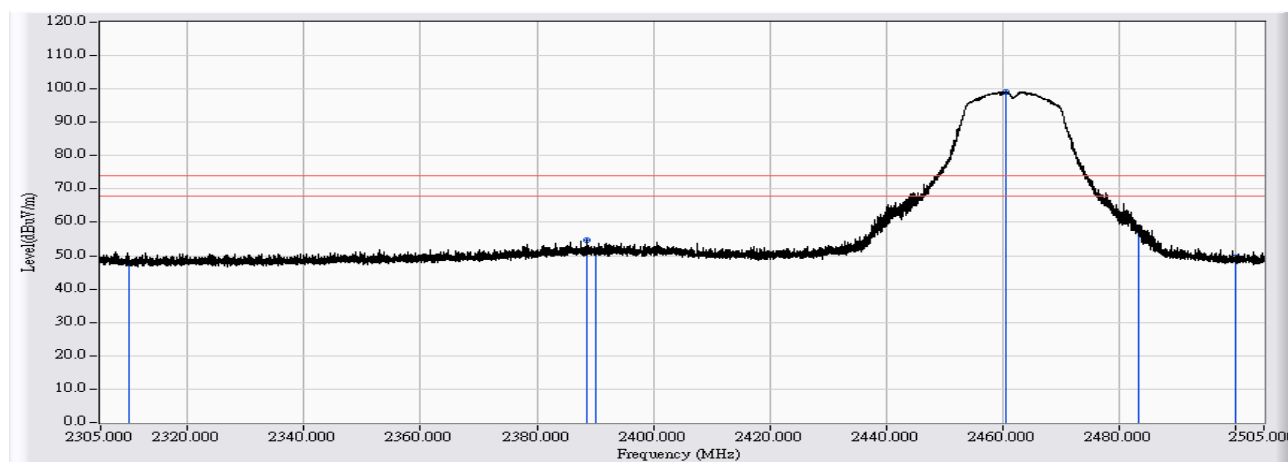


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	18.947	31.402	-22.598	54.000	AVERAGE
2		2389.491	13.123	23.271	36.394	-17.606	54.000	AVERAGE
3		2390.000	13.127	23.238	36.366	-17.634	54.000	AVERAGE
4	*	2433.907	13.329	73.817	87.146	33.146	54.000	AVERAGE
5		2483.500	13.725	20.684	34.409	-19.591	54.000	AVERAGE
6		2500.000	13.617	20.996	34.613	-19.387	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2462MHz

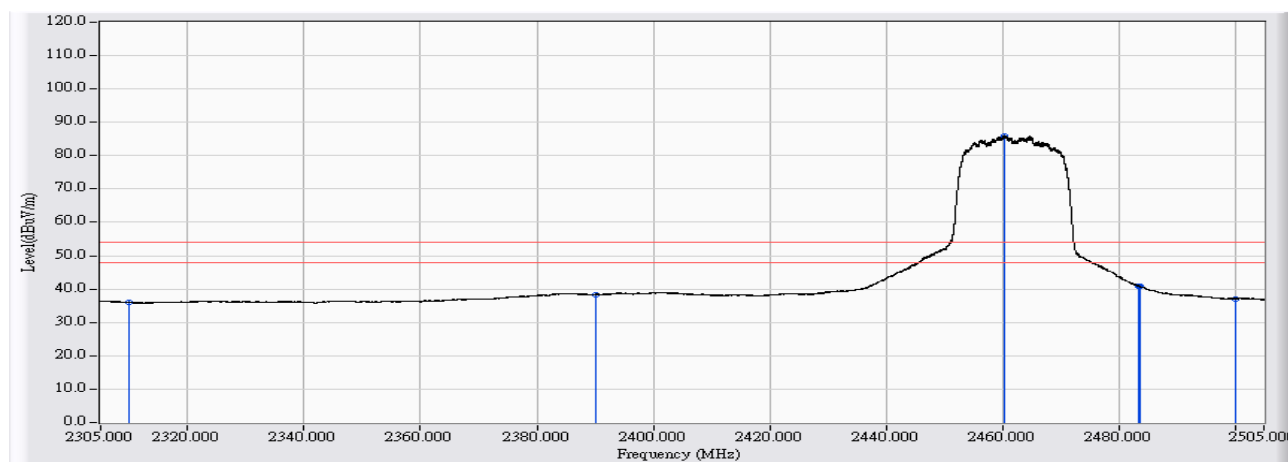


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	35.169	47.624	-26.376	74.000	PEAK
2		2388.712	13.115	41.516	54.632	-19.368	74.000	PEAK
3		2390.000	13.127	38.630	51.758	-22.242	74.000	PEAK
4	*	2460.544	13.519	85.685	99.204	25.204	74.000	PEAK
5		2483.500	13.725	43.756	57.481	-16.519	74.000	PEAK
6		2500.000	13.617	35.849	49.466	-24.534	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2462MHz

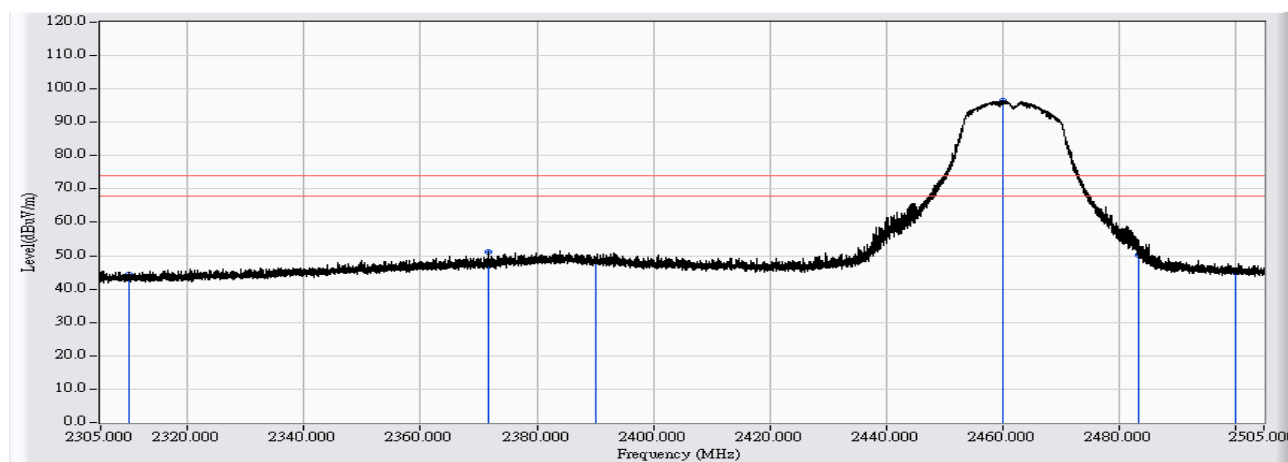


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	23.470	35.925	-18.075	54.000	AVERAGE
2		2390.000	13.127	25.282	38.410	-15.590	54.000	AVERAGE
3	*	2460.504	13.520	72.455	85.974	31.974	54.000	AVERAGE
4		2483.500	13.725	27.267	40.992	-13.008	54.000	AVERAGE
5		2483.602	13.725	27.097	40.823	-13.177	54.000	AVERAGE
6		2500.000	13.617	23.536	37.153	-16.847	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2462MHz

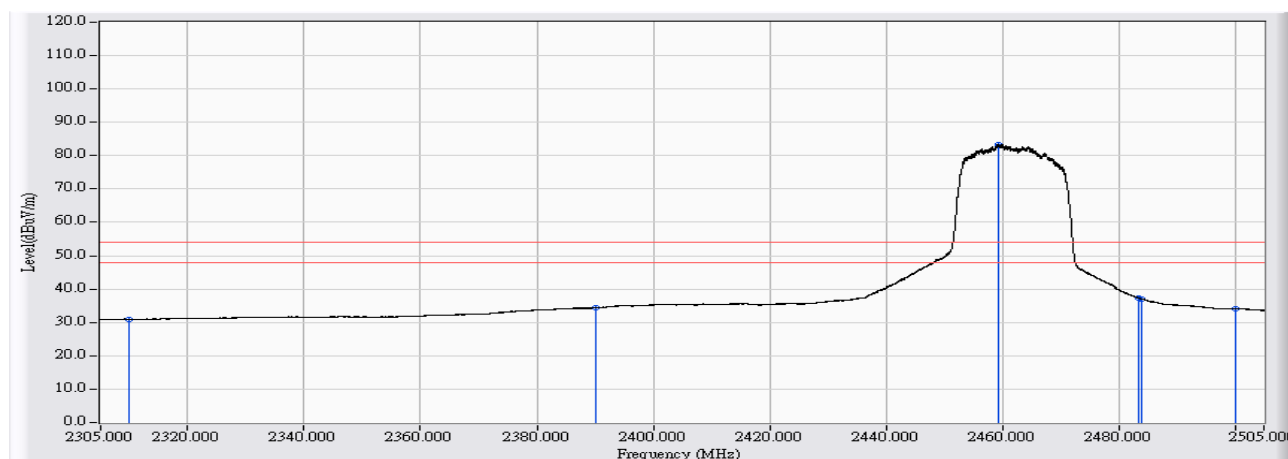


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	12.455	32.017	44.472	-29.528	74.000	PEAK
2	2371.613	12.908	38.355	51.263	-22.737	74.000	PEAK
3	2390.000	13.127	35.123	48.251	-25.749	74.000	PEAK
4	* 2460.144	13.522	82.889	96.410	22.410	74.000	PEAK
5	2483.500	13.725	36.518	50.243	-23.757	74.000	PEAK
6	2500.000	13.617	31.536	45.153	-28.847	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB2-H	Time : 2017/09/10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : DC 3.3V
EUT : WIFI Gateway	Note : 802.11n(20M)_2462MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.455	18.539	30.994	-23.006	54.000	AVERAGE
2		2390.000	13.127	21.260	34.388	-19.612	54.000	AVERAGE
3	*	2459.325	13.525	69.820	83.344	29.344	54.000	AVERAGE
4		2483.500	13.725	23.562	37.287	-16.713	54.000	AVERAGE
5		2483.862	13.728	23.384	37.111	-16.889	54.000	AVERAGE
6		2500.000	13.617	20.383	34.000	-20.000	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

7. DTS Bandwidth

7.1. Test Equipment

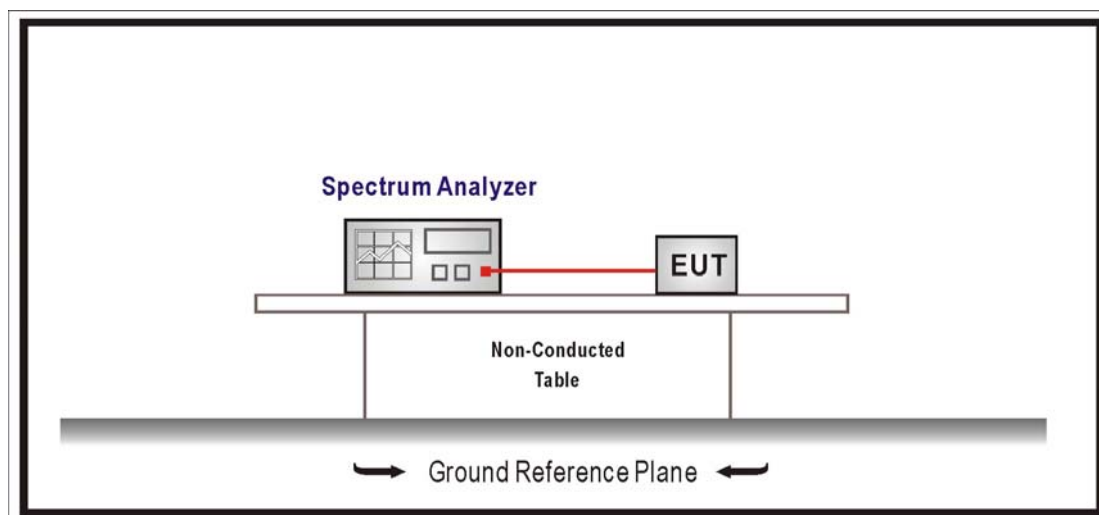
The following test equipments are used during the test:

DTS Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/07/26	2018/07/25
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/07/26	2018/07/25

Note: All equipments that need to calibrate are with calibration period of 1 year.

7.2. Test Setup



7.3. Test Procedures

The EUT was setup according to ANSI C63.10:2013; tested procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100KHz, Set the VBW $\geq 3 \times$ RBW, Sweep Time=Auto, Set Peak Detector.

7.4. Limits

The 6 dB bandwidth must be greater than 500 kHz.

7.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2017

7.6. Uncertainty

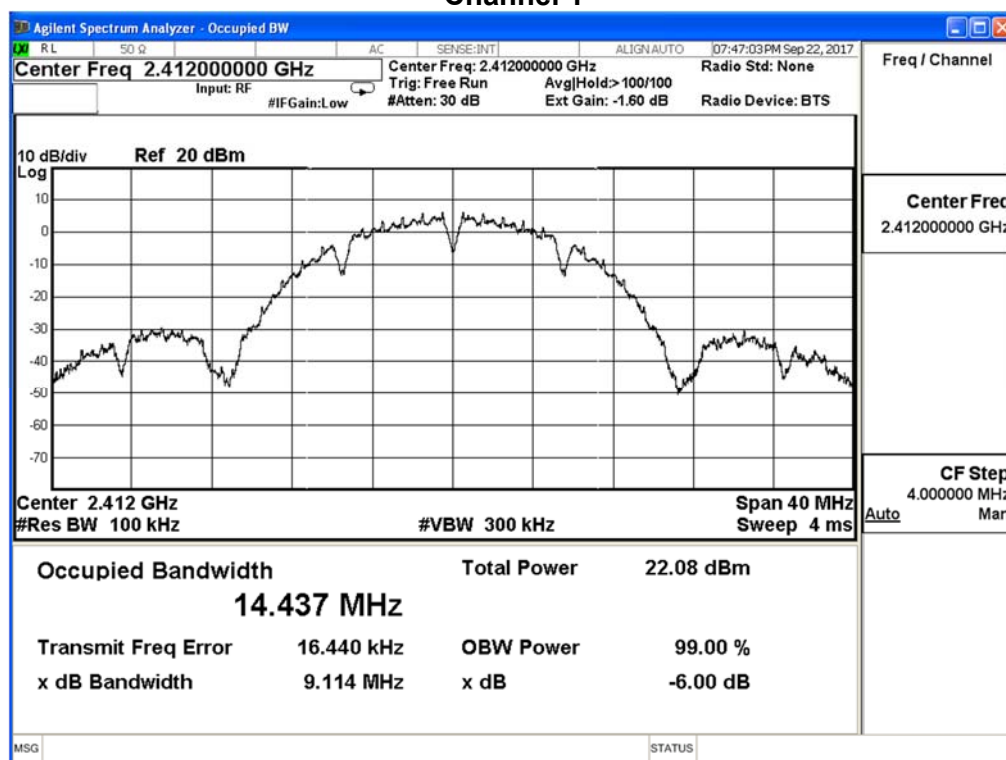
The measurement uncertainty is defined as $\pm 150\text{Hz}$

7.7. Test Result

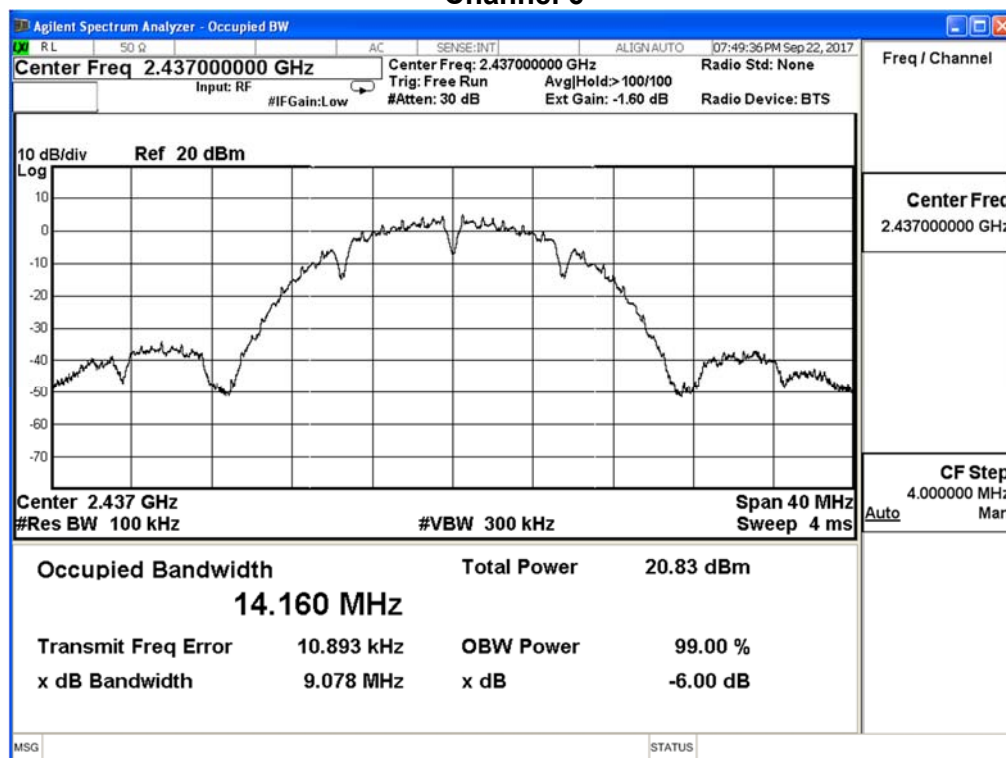
Product	WIFI Gateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2017/09/22	Test Site	SR10-H

802.11b (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	9.114	≥ 0.5	Pass
6	2437	9.078	≥ 0.5	Pass
11	2462	9.072	≥ 0.5	Pass

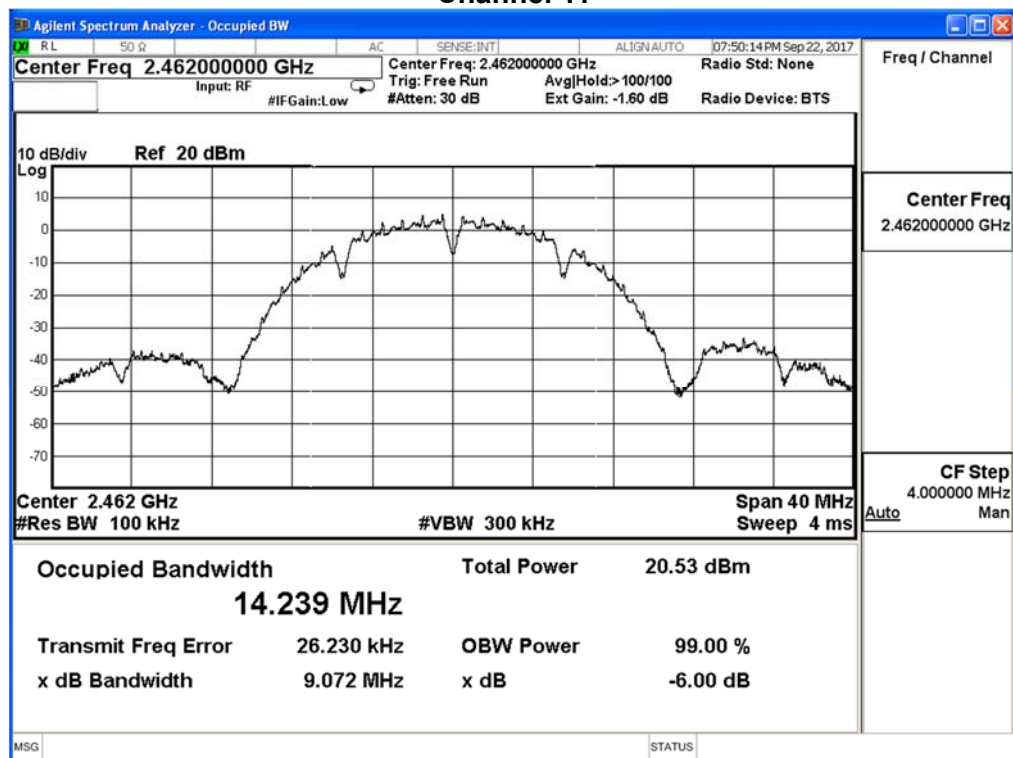
Channel 1



Channel 6



Channel 11

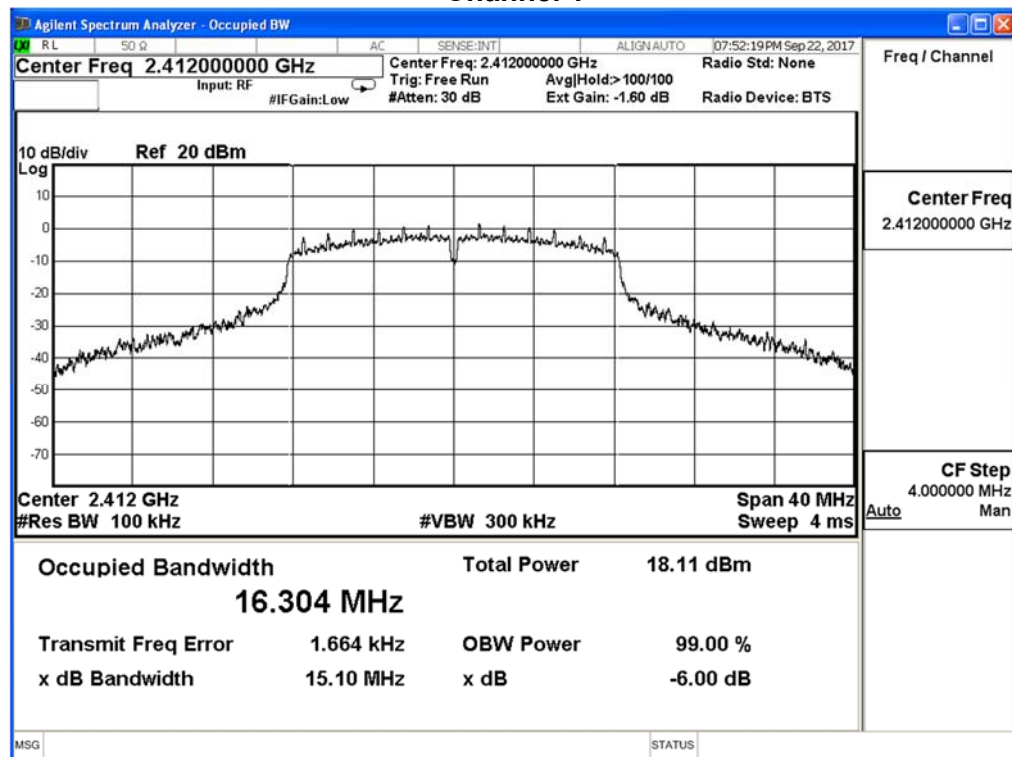


Product	WIFI Gateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2017/09/22	Test Site	SR10-H

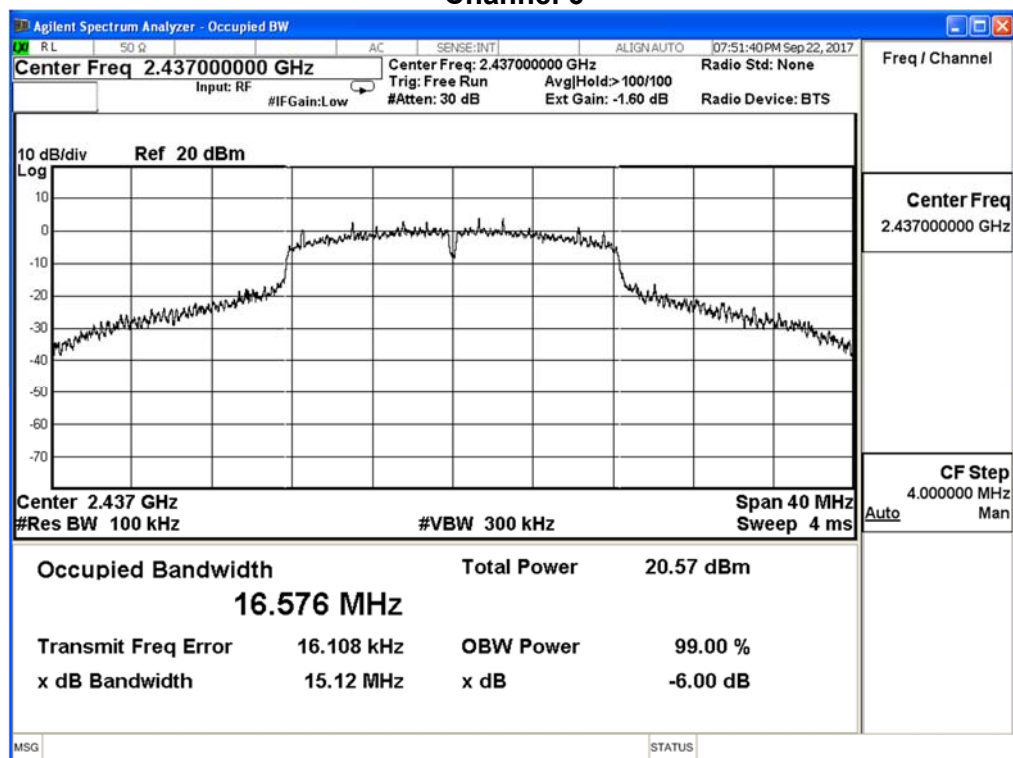
802.11g (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	15.100	≥ 0.5	Pass
6	2437	15.120	≥ 0.5	Pass
11	2462	14.990	≥ 0.5	Pass

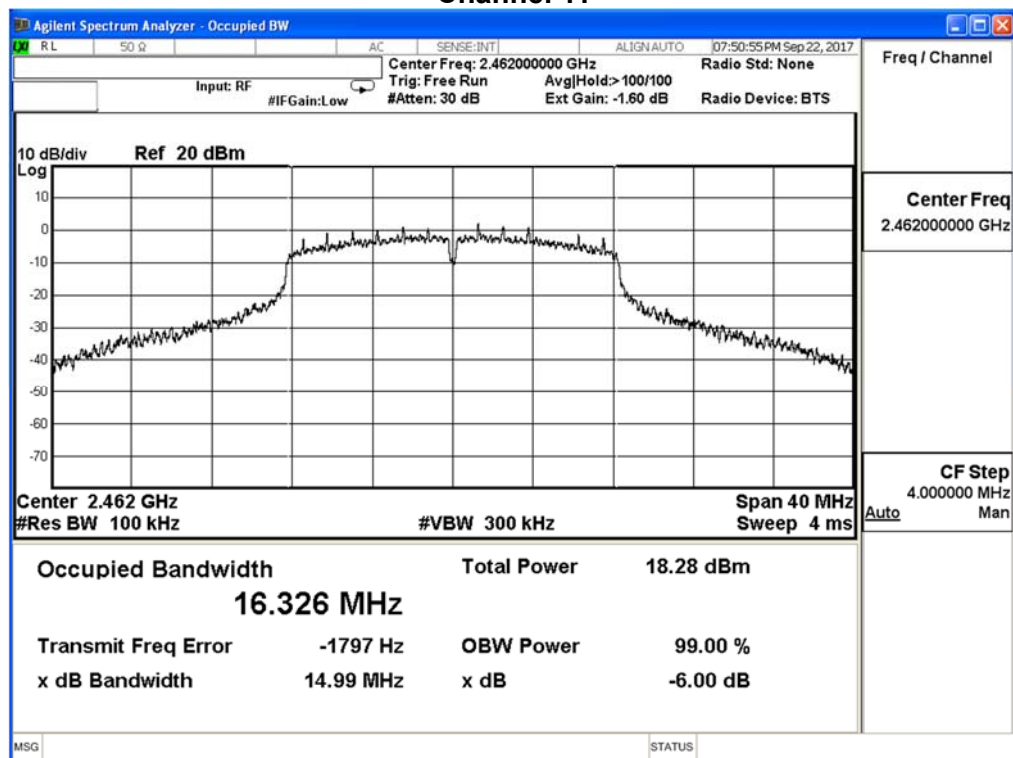
Channel 1



Channel 6



Channel 11

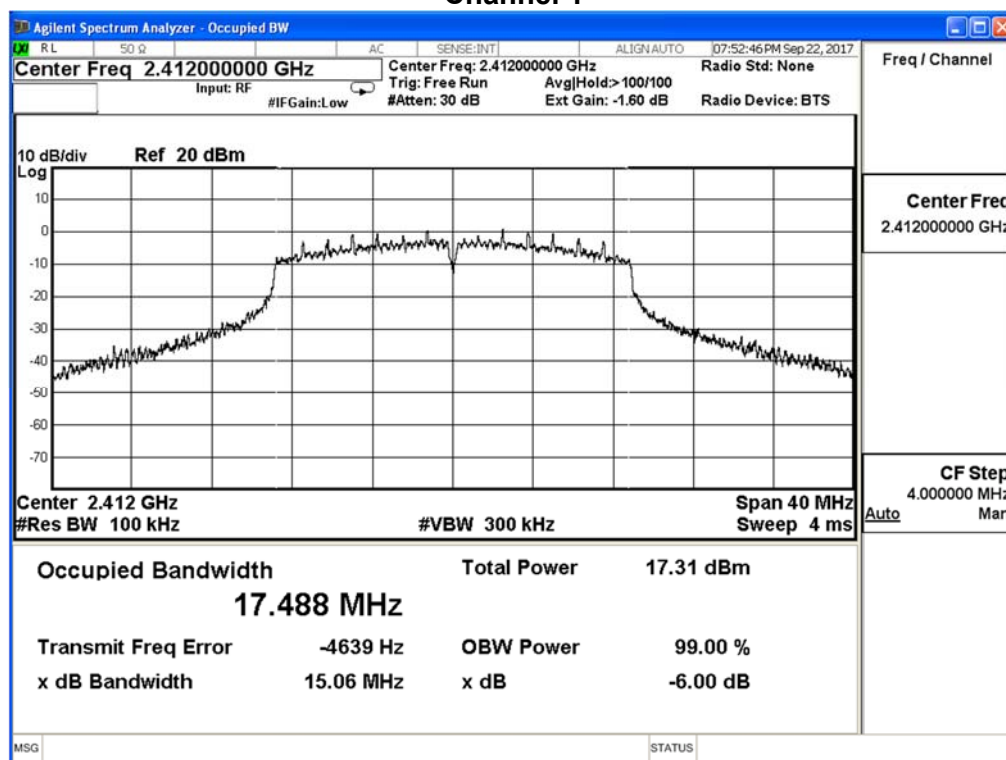


Product	WIFI Gateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2017/09/22	Test Site	SR10-H

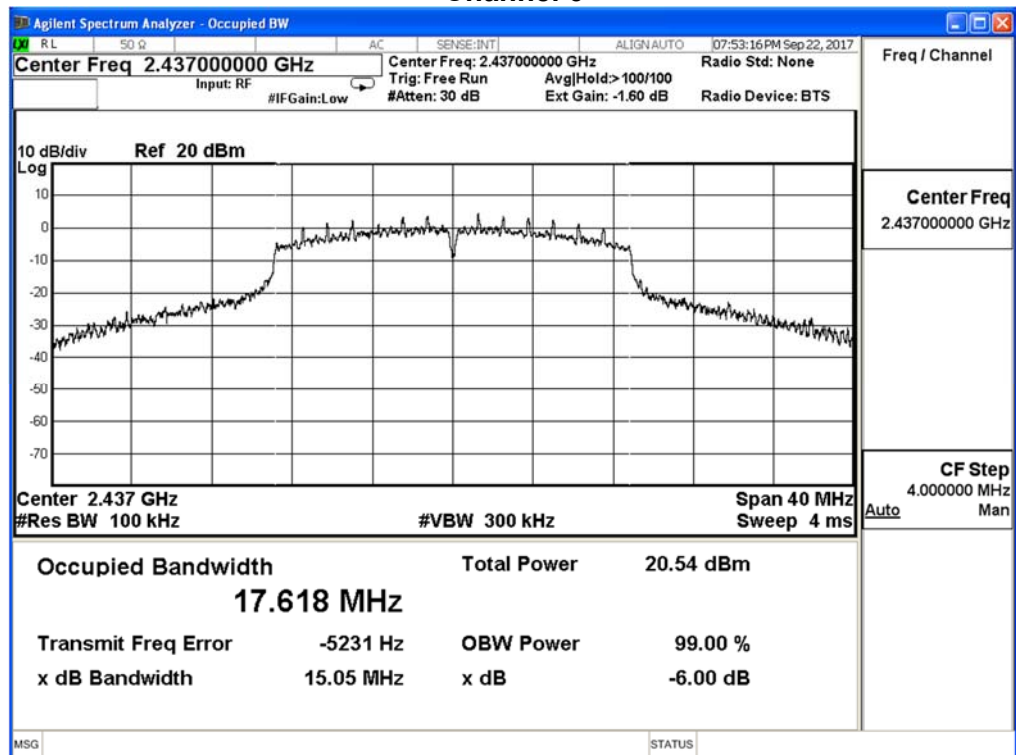
IEEE 802.11n_20M (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	15.060	≥ 0.5	Pass
6	2437	15.050	≥ 0.5	Pass
11	2462	15.080	≥ 0.5	Pass

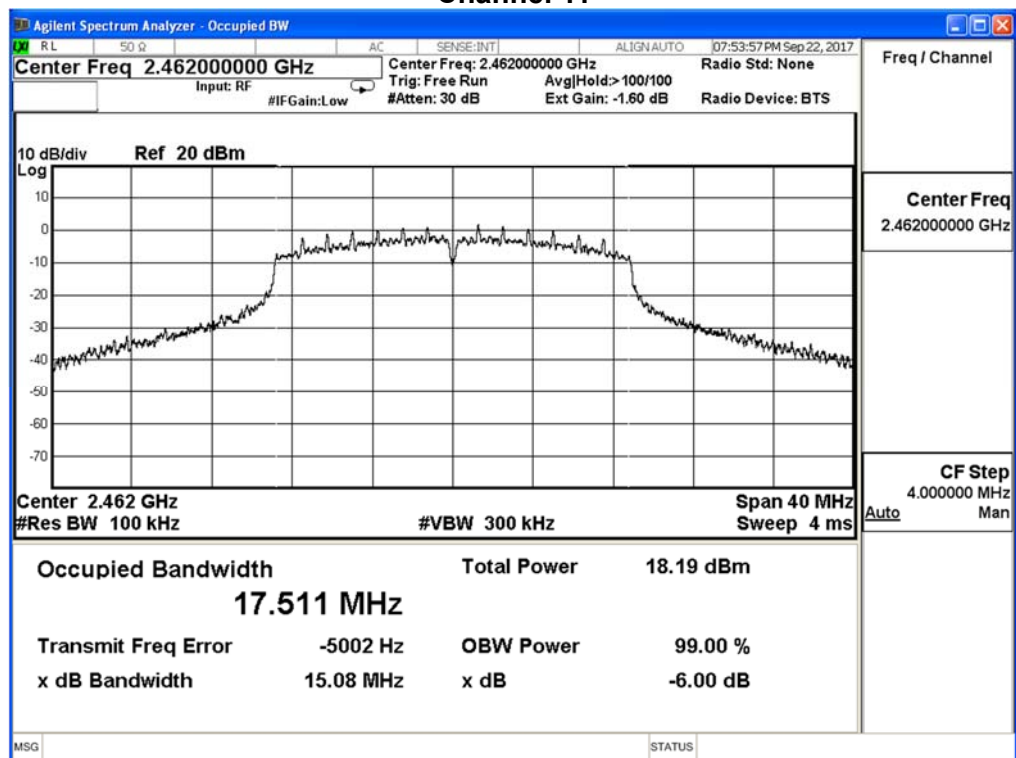
Channel 1



Channel 6



Channel 11



8. Occupied Bandwidth

8.1. Test Equipment

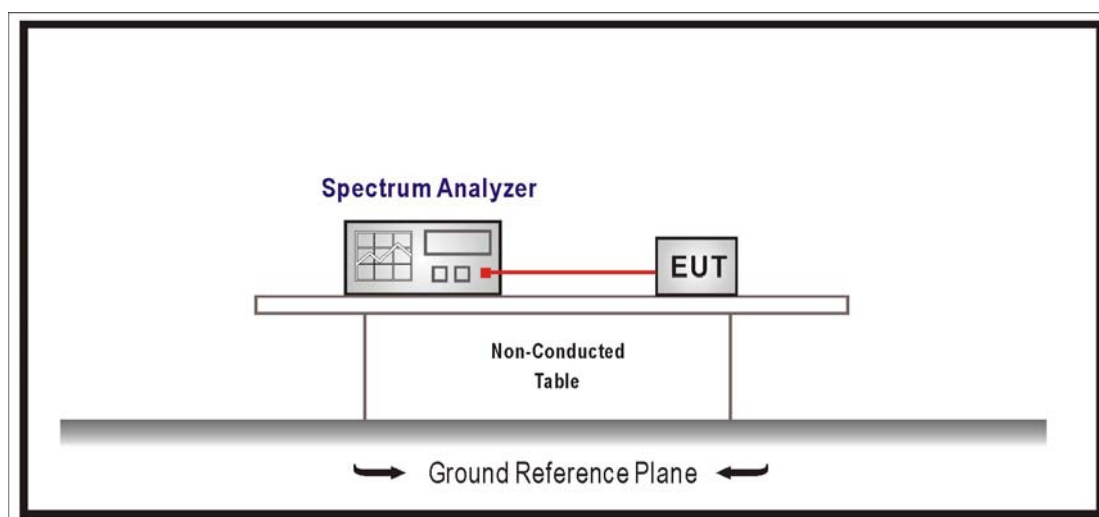
The following test equipments are used during the test:

Occupied Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/07/26	2018/07/25
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/07/26	2018/07/25

Note: All equipments that need to calibrate are with calibration period of 1 year.

8.2. Test Setup



8.3. Test Procedures

The EUT was setup according to ANSI C63.10:2013; tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 1-5% of the OBW, Set the VBW $\geq 3 \times$ RBW, Sweep Time=Auto.

8.4. Limits

NA

8.5. Test Specification

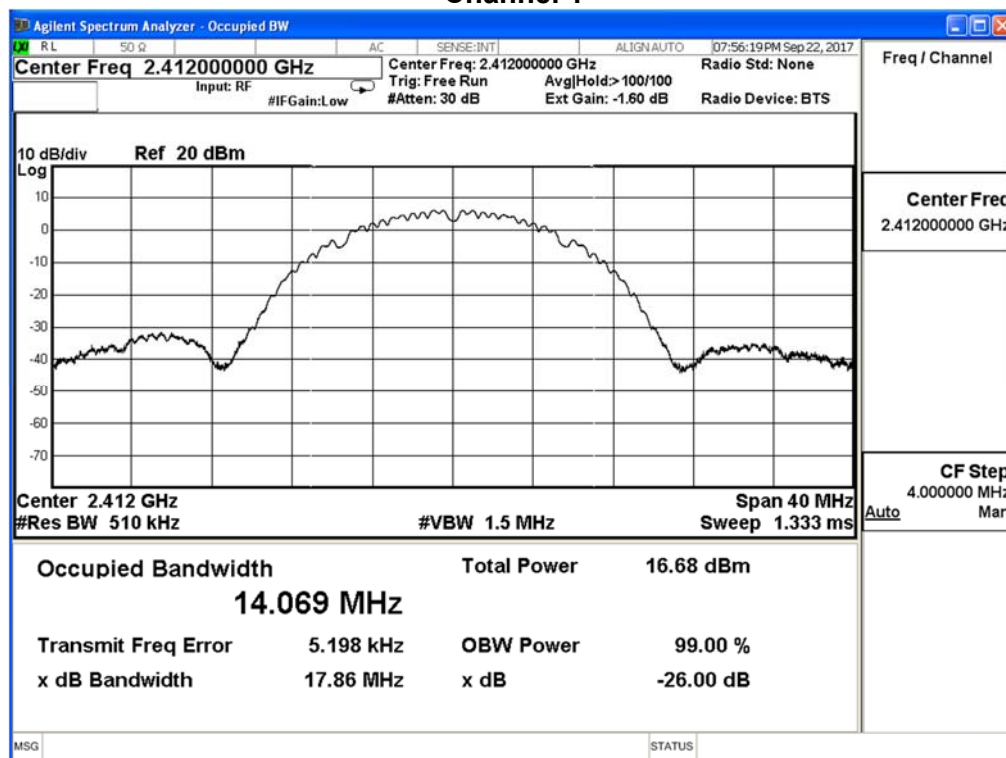
According to FCC Part 15 Subpart C Paragraph 15.247: 2017

8.6. Uncertainty

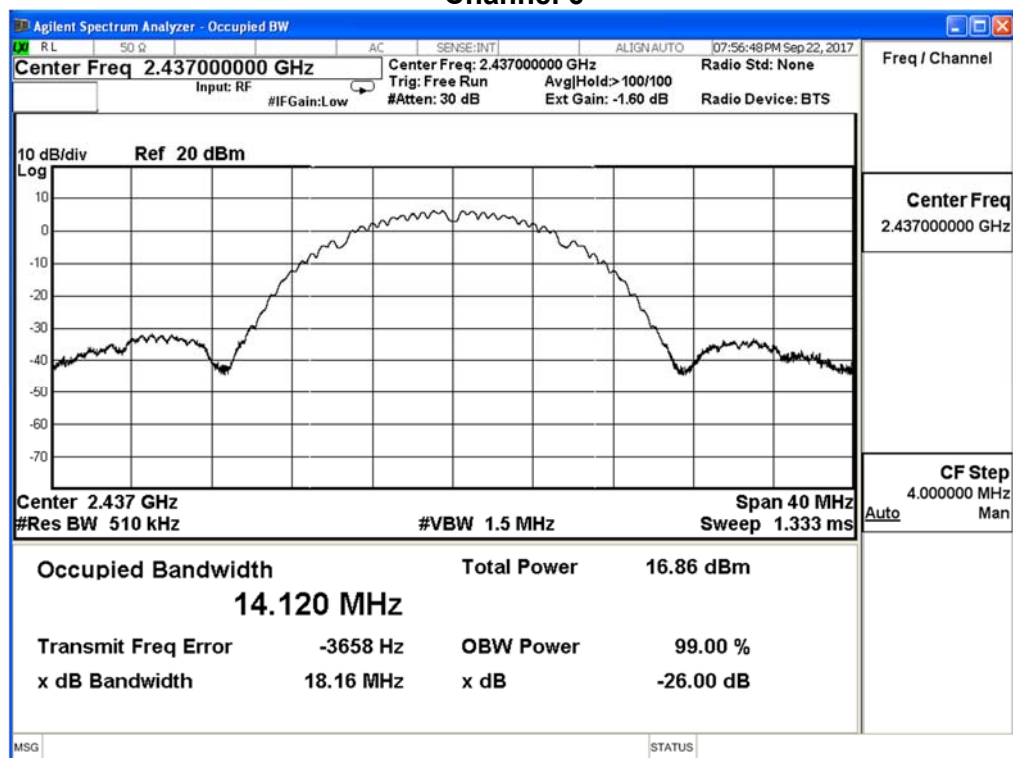
The measurement uncertainty is defined as $\pm 150\text{Hz}$

Product	WIFI Gateway		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2017/09/22	Test Site	SR10-H

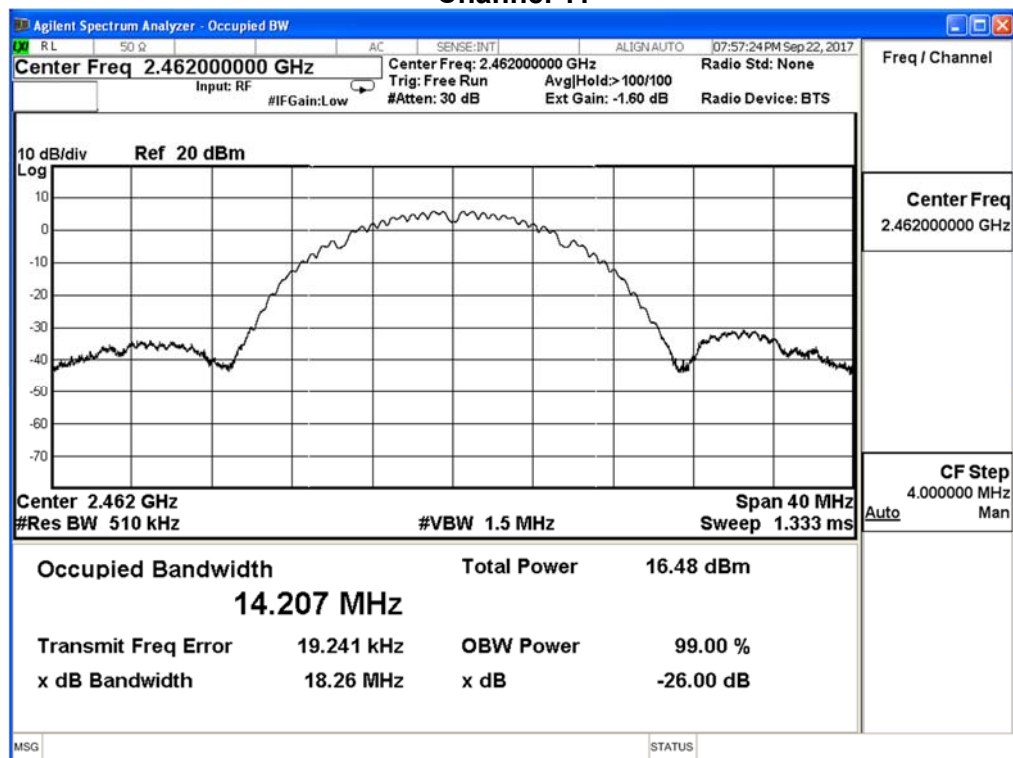
802.11b (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	14.069	--	Pass
6	2437	14.120	--	Pass
11	2462	14.207	--	Pass



Channel 6



Channel 11

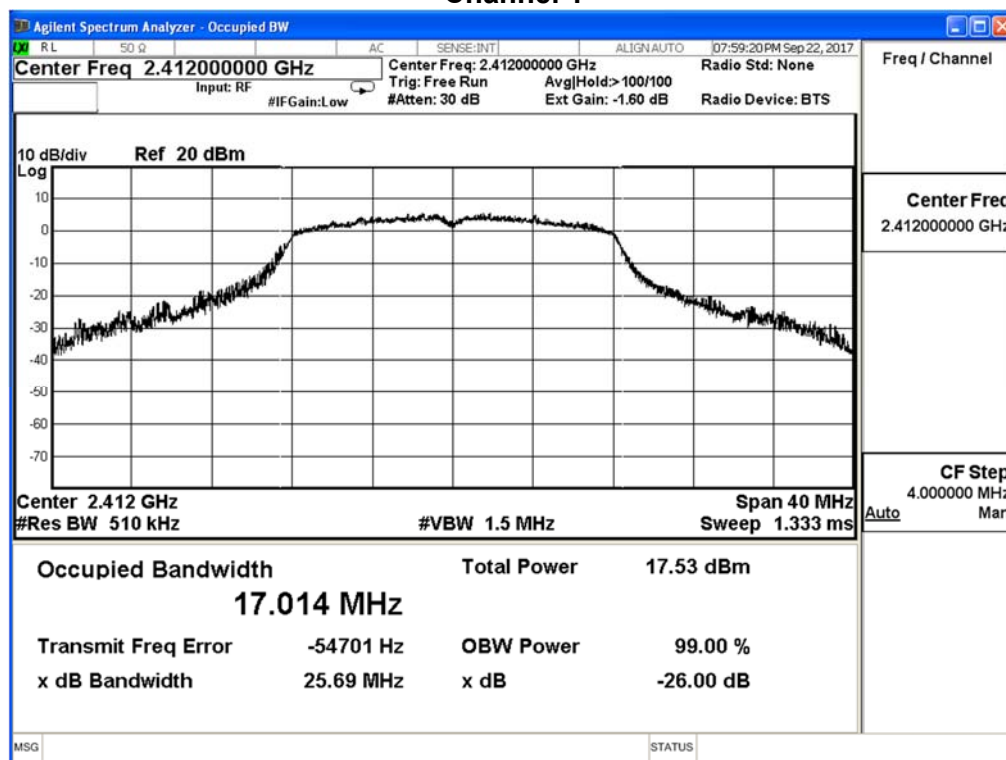


Product	WIFI Gateway		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2017/09/22	Test Site	SR10-H

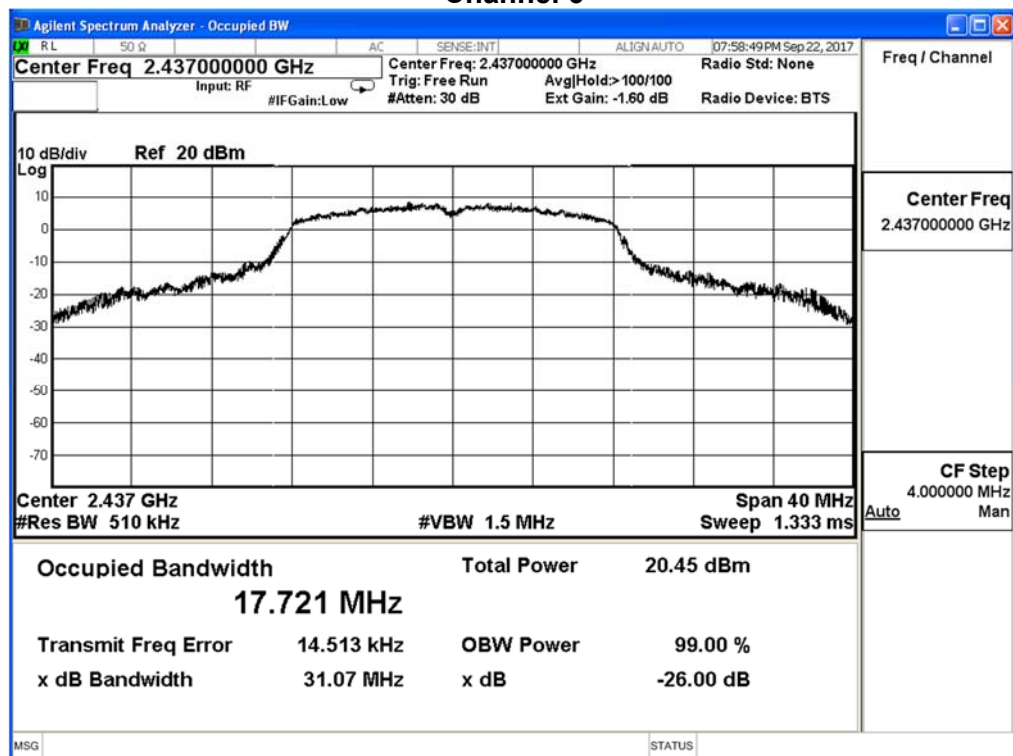
802.11g (ANT 0)

Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	17.014	--	Pass
6	2437	17.721	--	Pass
11	2462	17.217	--	Pass

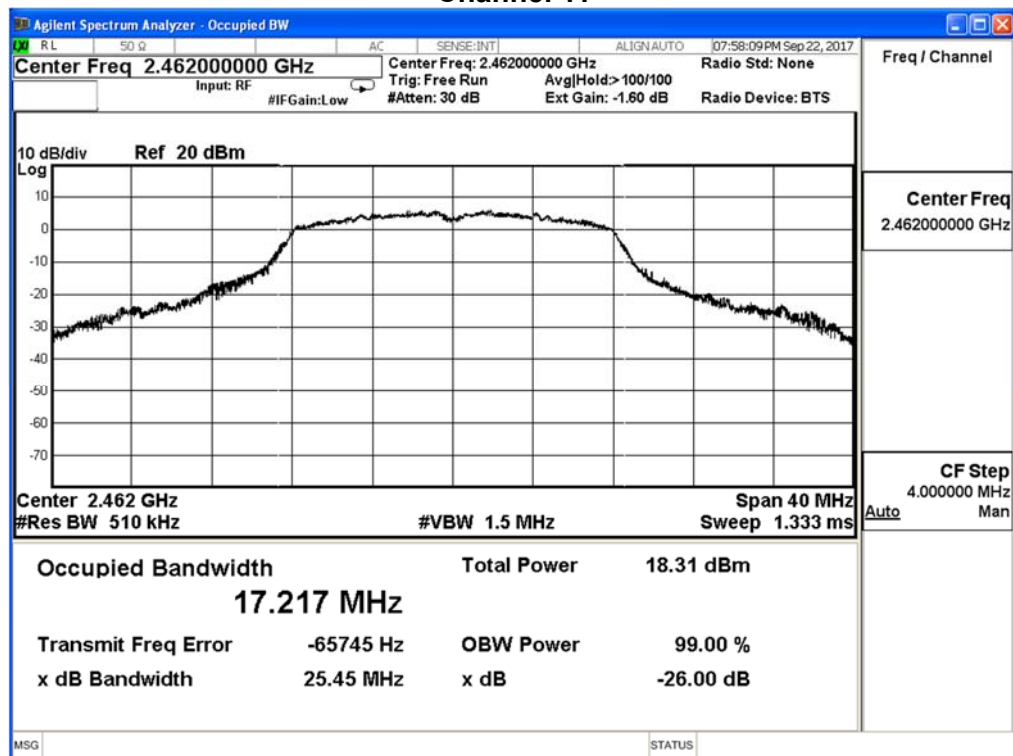
Channel 1



Channel 6



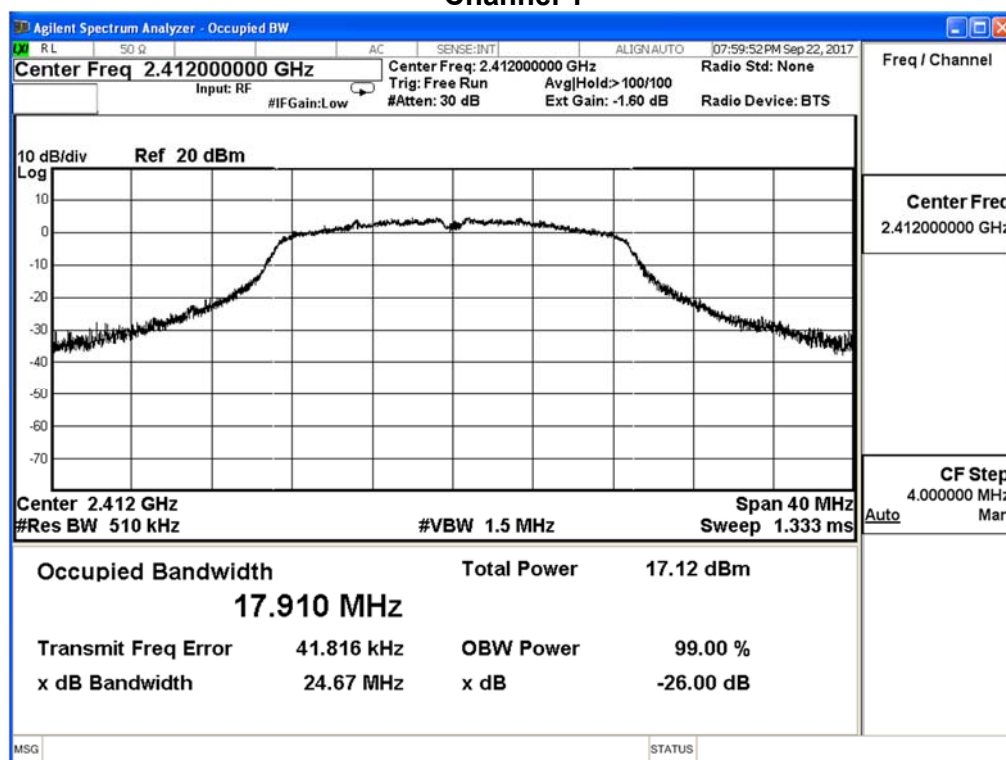
Channel 11



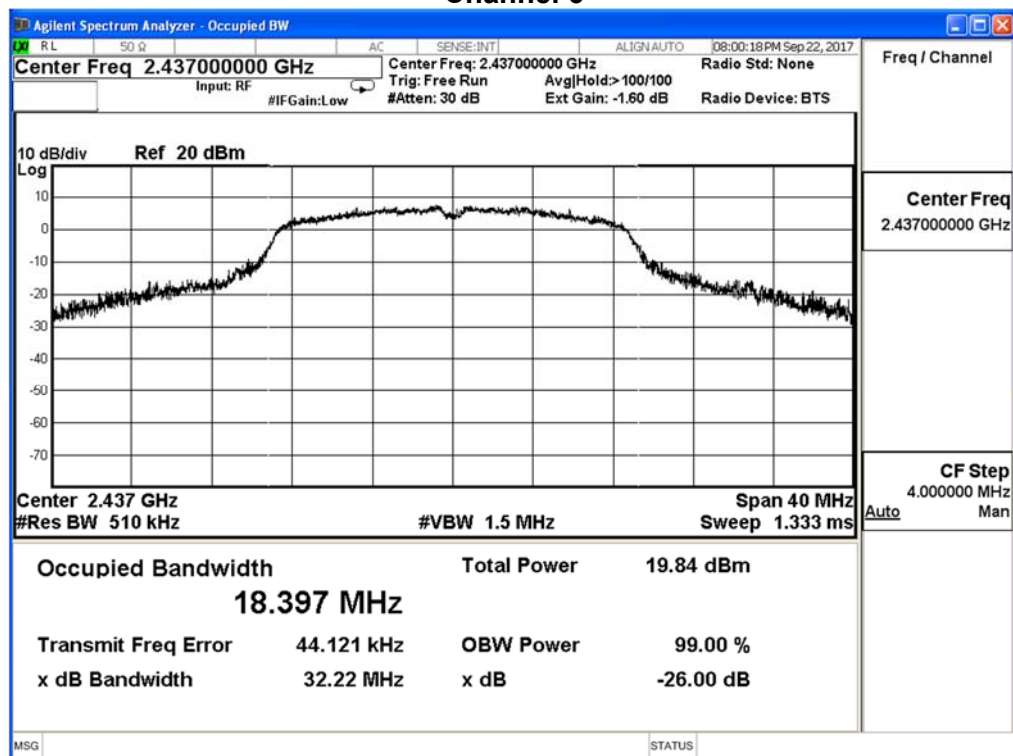
Product	WIFI Gateway		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2017/09/22	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	17.910	--	Pass
6	2437	18.397	--	Pass
11	2462	18.056	--	Pass

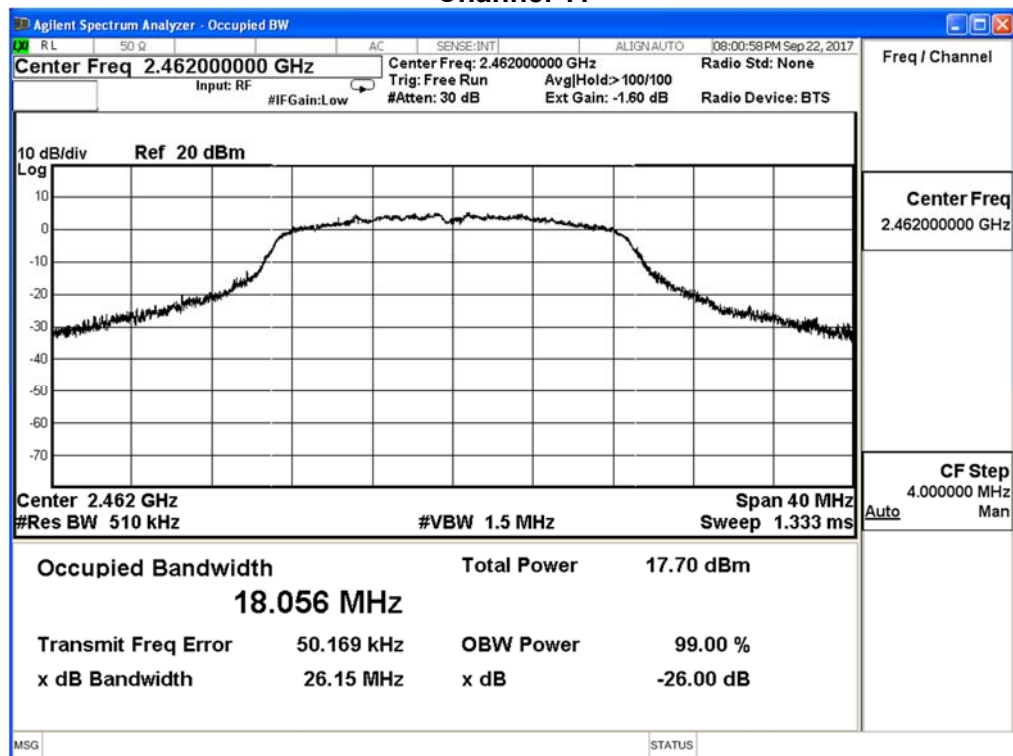
Channel 1



Channel 6



Channel 11



9. Power Density

9.1. Test Equipment

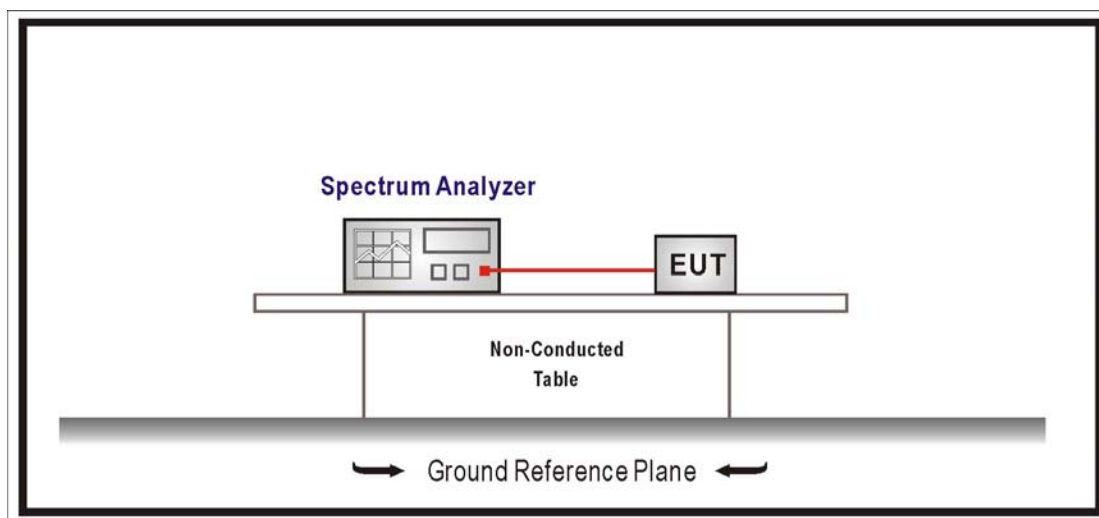
The following test equipment is used during the test:

Power Density / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/23	2018/01/22
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/07/26	2018/07/25

Note: All equipments that need to calibrate are with calibration period of 1 year.

9.2. Test Setup



9.3. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

9.4. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set 3KHz $\leq$ RBW $\leq$ 100 kHz, Set VBW $\geq$ 3xRBW, Sweep time=Auto, Set Peak detector.

9.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2017

9.6. Uncertainty

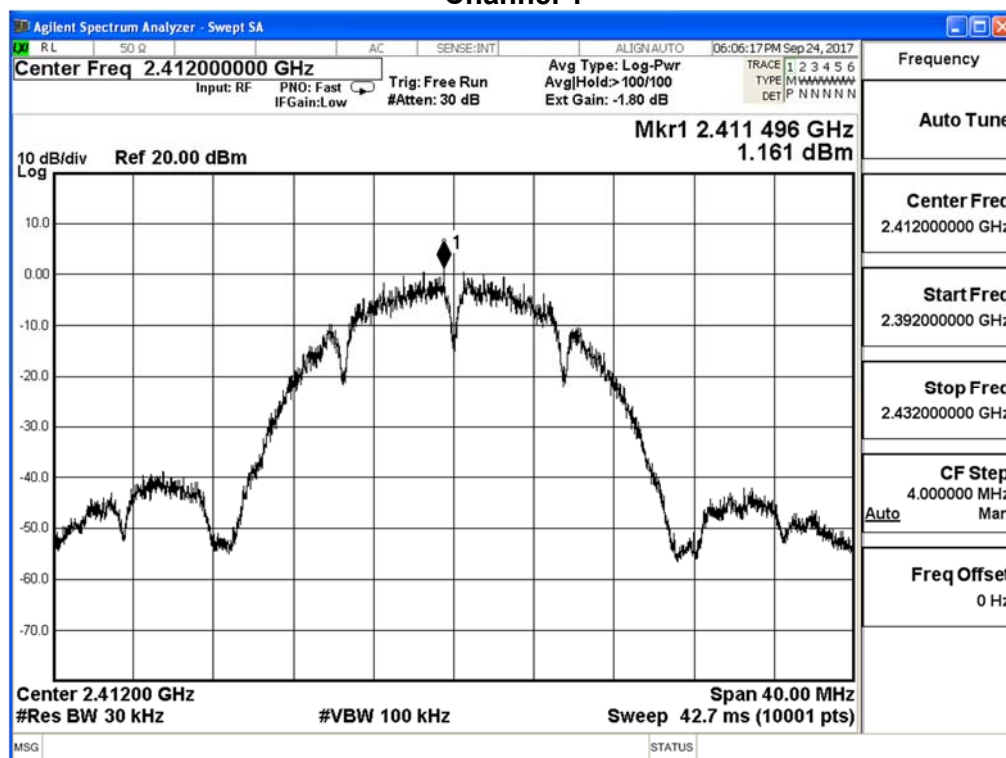
The measurement uncertainty is defined as $\pm 1.27\text{dB}$.

9.7. Test Result

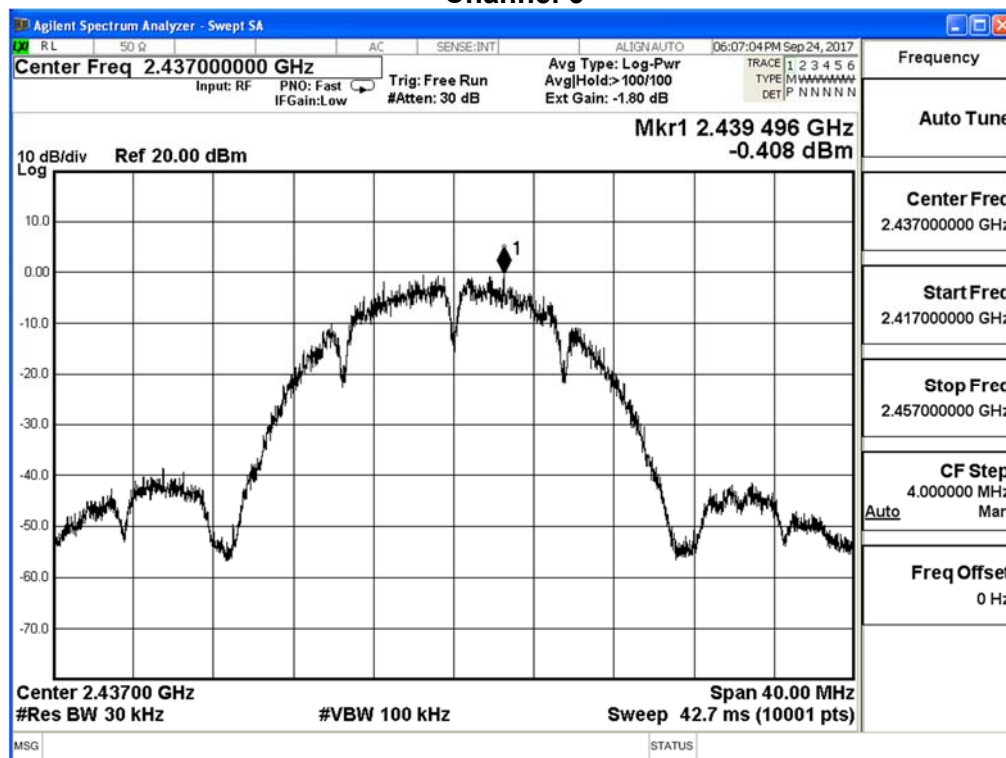
Product	WIFI Gateway		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2017/09/24	Test Site	SR10-H

IEEE 802.11b (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	2412	1.161	8.00	Pass
6	2437	-0.408	8.00	Pass
11	2462	0.529	8.00	Pass

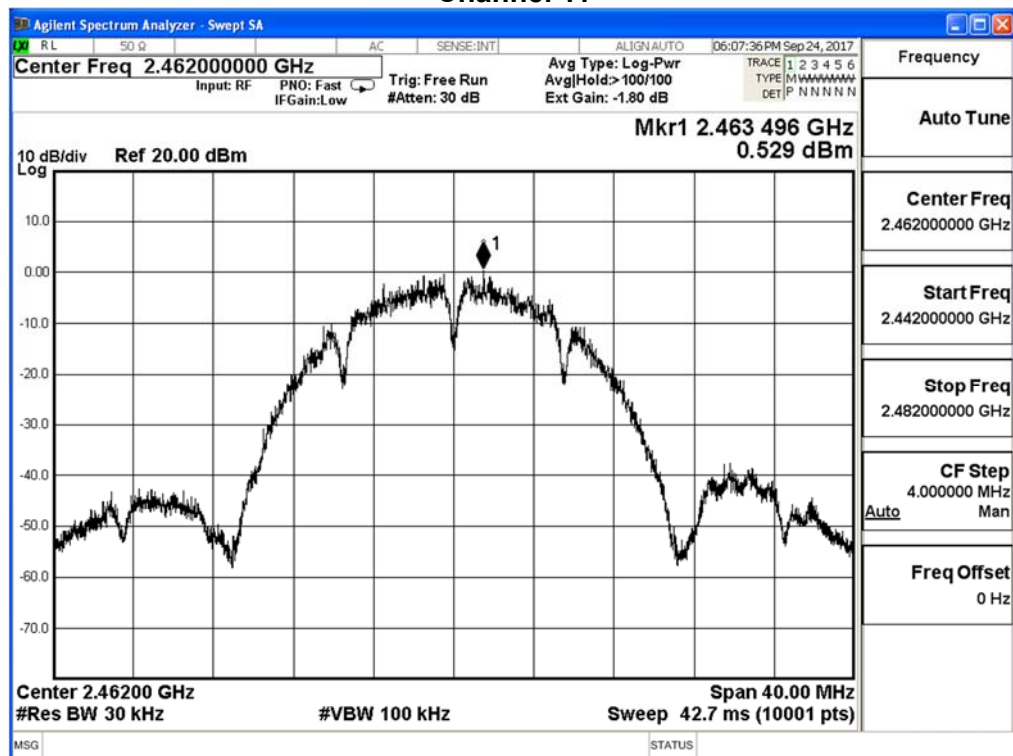
Channel 1



Channel 6



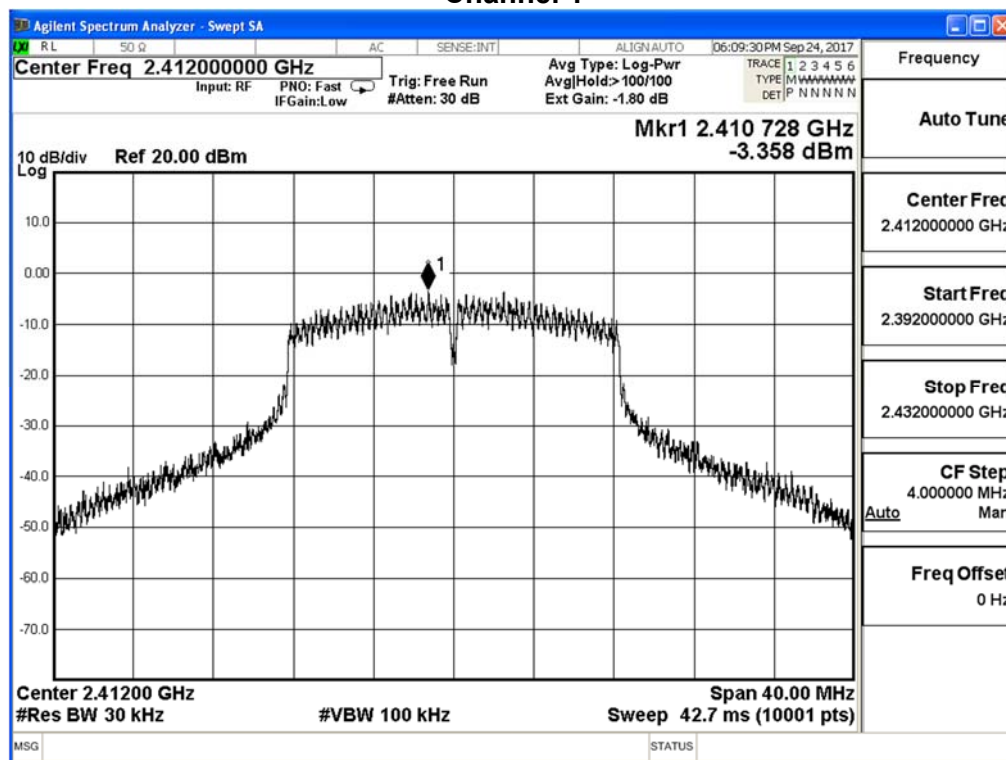
Channel 11



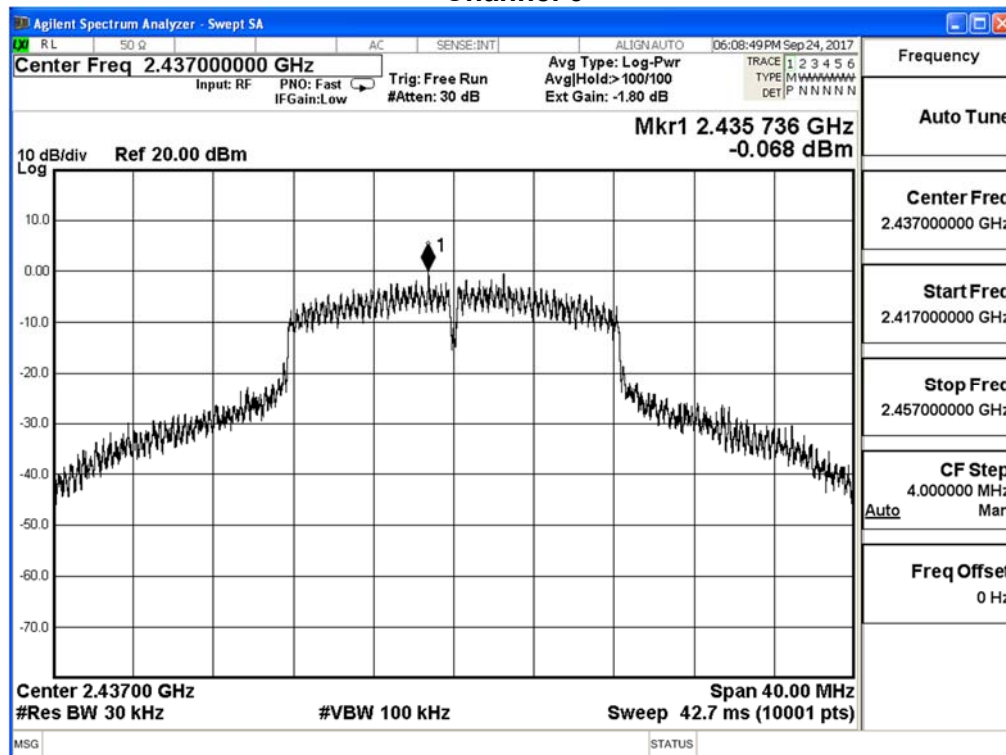
Product	WIFI Gateway		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2017/09/24	Test Site	SR10-H

IEEE 802.11g (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	2412	-3.358	8.00	Pass
6	2437	-0.068	8.00	Pass
11	2462	-2.779	8.00	Pass

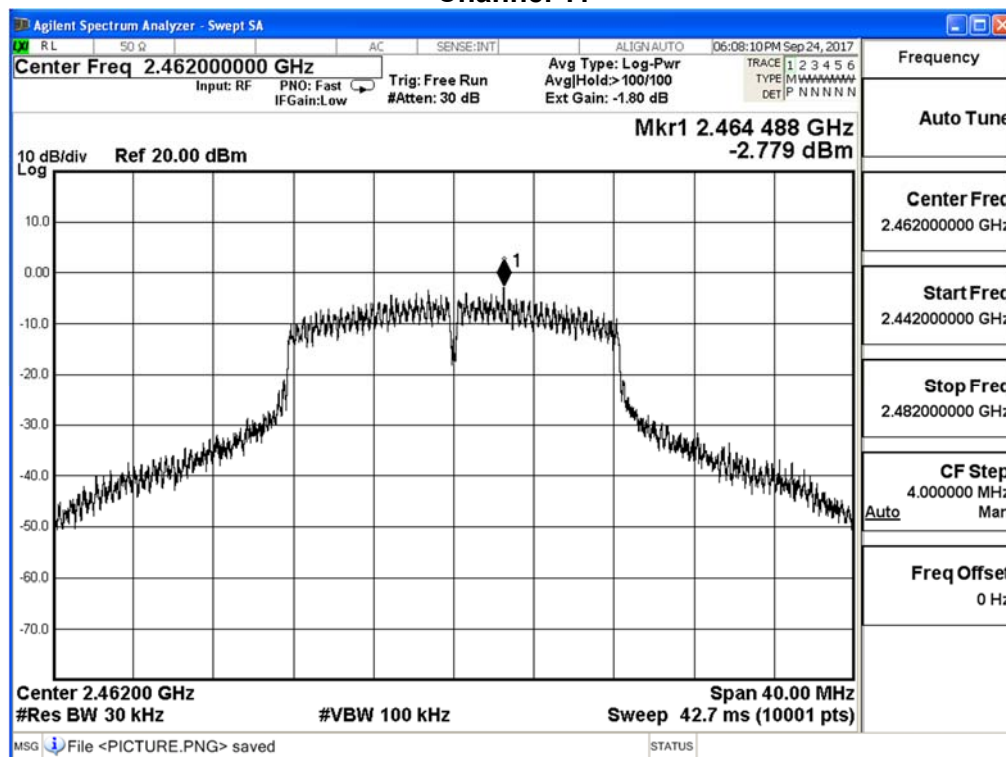
Channel 1



Channel 6



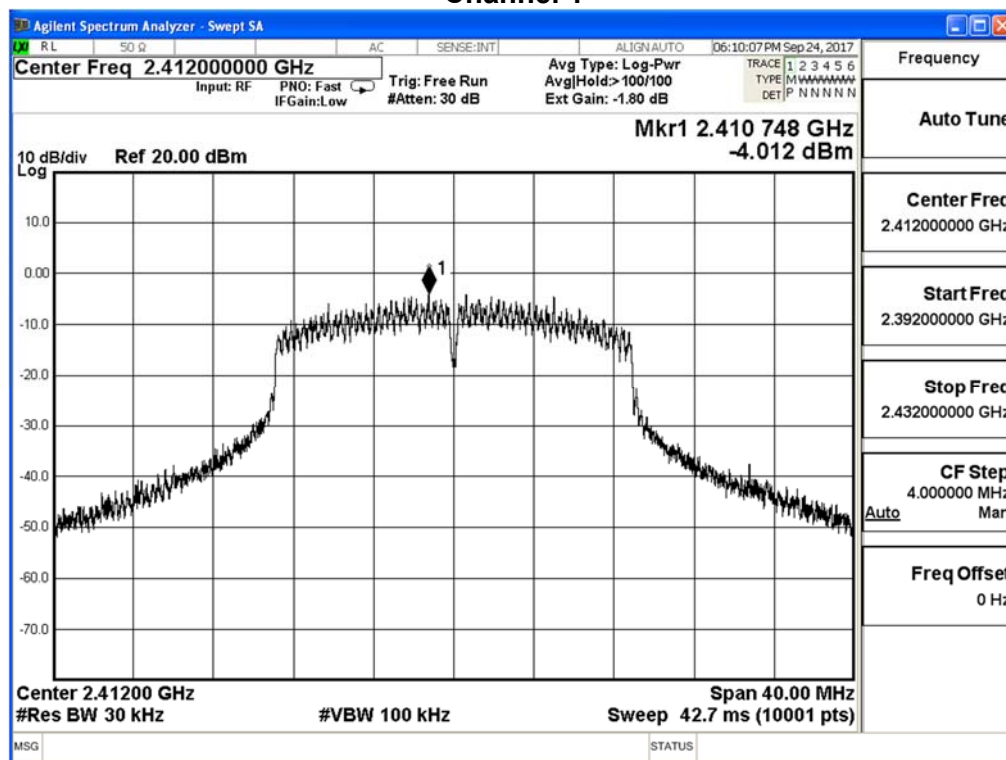
Channel 11



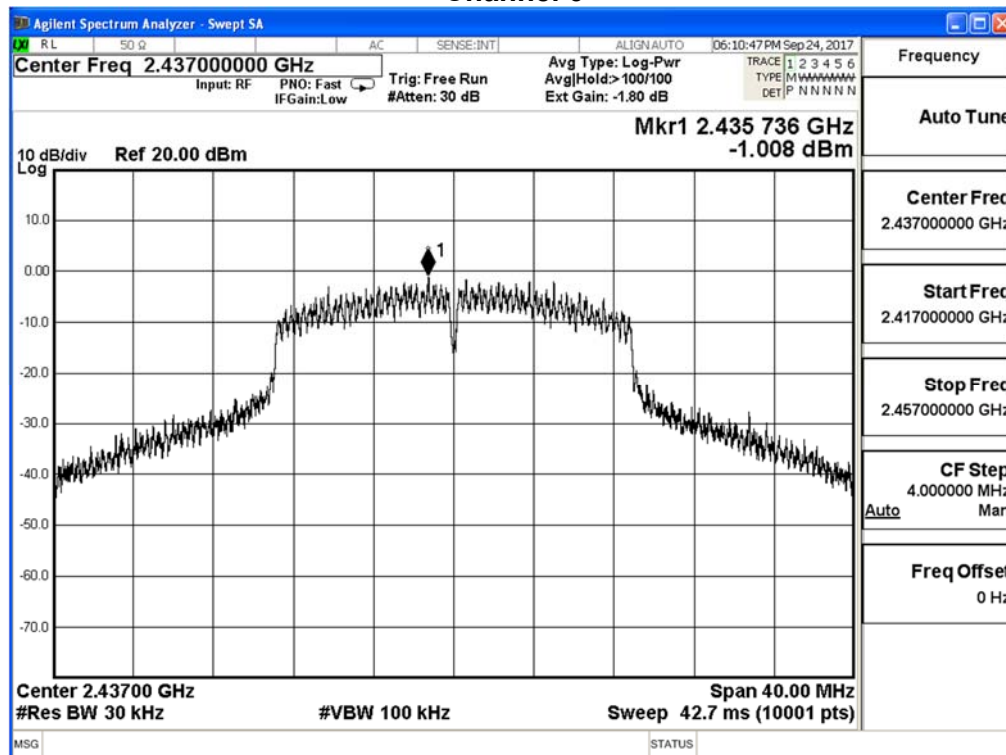
Product	WIFI Gateway		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2017/09/24	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	2412	-4.012	8.00	Pass
6	2437	-1.008	8.00	Pass
11	2462	-3.426	8.00	Pass

Channel 1



Channel 6



Channel 11

