

FCC Test Report

Product Name : N150 Wi-Fi Nano USB Adapter
Model No. : EW-7811GLN 2.0A, EW-7811Un V2
FCC ID. : NDD9578111901

Applicant : Edimax Technology Co., Ltd.
Address : No. 278, Xinhua 1st Road, Neihu District, Taipei City,
Taiwan

Date of Receipt : May 07, 2019
Issued Date : Aug. 22, 2019
Report No. : 1950097R-RFUSP26V00
Report Version : V1.0



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Test Report Certification

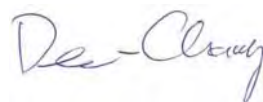
Issued Date : Aug. 22, 2019

Report No.: 1950097R-RFUSP26V00



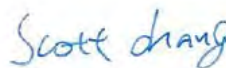
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Applicant : Edimax Technology Co., Ltd.
Address : No. 278, Xinhua 1st Road, Neihu District, Taipei City, Taiwan
Manufacturer : Edimax Technology Co., Ltd.
Model No. : EW-7811GLN 2.0A, EW-7811Un V2
FCC ID. : NDD9578111901
EUT Test Voltage : DC 5V
Testing Voltage : AC 120V/60Hz (Power by Notebook PC)
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2018
ANSI C63.10: 2013
Laboratory Name : Hsin Chu Laboratory
Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu
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Test Result : Complied

Documented By :



(Demi Chang / Senior Engineering Adm. Specialist)

Tested By :



(Scott Chang / Engineer)

Approved By :



(Louis Hsu / Deputy Manager)

Revision History

Report No.	Version	Description	Issued Date
1950097R-RFUSP26V00	V1.0	Initial issue of report	Aug. 22, 2019

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1. General Information

1.1. EUT Description

Product Name	N150 Wi-Fi Nano USB Adapter	
Model No.	EW-7811GLN 2.0A, EW-7811Un V2	
Frequency Range/ Channel Number	IEEE 802.11b/g	2412~2462MHz / 11 Channels
	IEEE 802.11n (20MHz)	
	IEEE 802.11n (40MHz)	2422~2452MHz / 7 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, 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	
MFR. / Model No.	LYNwave / ALX19M-052AA3
Antenna Type	PIFA antenna
Antenna Gain	-4dBi

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	-	-

IEEE 802.11n (40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
003	2422 MHz	004	2427 MHz	005	2432 MHz	006	2437 MHz
007	2442 MHz	008	2447 MHz	009	2452 MHz	-	-

Note:

1. This device is a N150 Wi-Fi Nano USB Adapter including 2.4GHz b/g/n transmitting and receiving function.
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247.
3. 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.
4. The difference between these models is for marketing purpose.

These model names have following difference:

Equipment Name	N150 Wi-Fi Nano USB Adapter	
Model Name	EW-7811GLN 2.0A	EW-7811Un V2
Exterior Color	Silver	Gold

5. The EUT description is from the customer declaration.

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.

Test Mode	Mode 1: Transmit			
Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11n(40MHz)	6	0	Complies
Maximum peak conducted output power	11b/g	1/6/11	0	Complies
	11n(20MHz)	1/6/11	0	Complies
	11n(40MHz)	3/6/9	0	Complies
Radiated Emission	11b/g	1/6/11	0	Complies
	11n(20MHz)	1/6/11	0	Complies
	11n(40MHz)	3/6/9	0	Complies
RF antenna conducted test	11b/g	1/6/11	0	Complies
	11n(20MHz)	1/6/11	0	Complies
	11n(40MHz)	3/6/9	0	Complies
Radiated Emission Band Edge	11b/g	1/6/11	0	Complies
	11n(20MHz)	1/6/11	0	Complies
	11n(40MHz)	3/6/9	0	Complies
DTS Bandwidth	11b/g	1/6/11	0	Complies
	11n(20MHz)	1/6/11	0	Complies
	11n(40MHz)	3/6/9	0	Complies
Occupied Bandwidth	11b/g	1/6/11	0	Complies
	11n(20MHz)	1/6/11	0	Complies
	11n(40MHz)	3/6/9	0	Complies
Power Density	11b/g	1/6/11	0	Complies
	11n(20MHz)	1/6/11	0	Complies
	11n(40MHz)	3/6/9	0	Complies

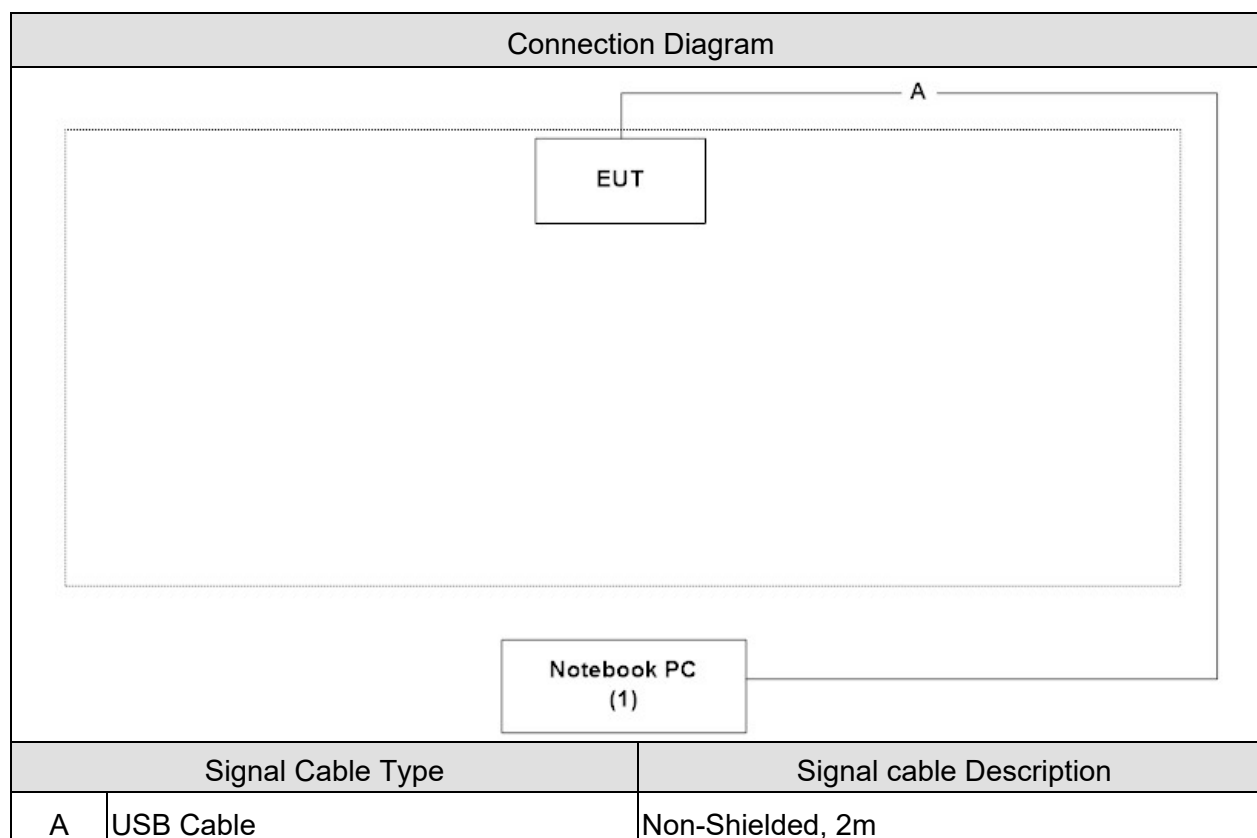
Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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 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 MTool on the PC.
3	Configure the test mode, the test channel, and the data rate.
4	Make the EUT to start the continuous receiving
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	3
Humidity (%RH)		25 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Maximum peak conducted output power	15 - 35	25	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission	15 - 35	25	2
Humidity (%RH)		25 - 75	65	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	25	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission Band Edge	15 - 35	25	2
Humidity (%RH)		25 - 75	48	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth & DTS Bandwidth	15 - 35	25	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Power Density	15 - 35	25	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	

Note: Test Site information refers to Laboratory Information.

Laboratory Information

USA : FCC Registration Number: TW3024

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

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

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
Address	1. No. 75-2, 3rd Lin, WangYe Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C. 2. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. 3. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
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Fax number	1. +886-3-592-8859 2. +886-3-582-8958 3. +886-3-582-8958
E mail address	info.tw@dekra.com
Website	http://www.dekra.com.tw

1.7. List of Test Equipment

Conducted Emission / SR2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2019/01/11	2020/01/10
Test Receiver	R&S	ESCS 30	836858/022	2019/03/12	2020/03/11
LISN	R&S	ENV216	100092	2019/07/09	2020/07/08

Maximum peak conducted output power / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2018/12/17	2019/12/16
Pulse Power Sensor	Anritsu	MA2411B	1531043	2018/12/17	2019/12/16
Pulse Power Sensor	Anritsu	MA2411B	1531044	2018/12/17	2019/12/16
Power Meter	Keysight	8990B	MY51000248	2019/05/21	2020/05/20
Power Sensor	Keysight	N1923A	MY57240005	2019/05/21	2020/05/20

Radiated Emission / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2018/11/05	2019/11/04
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/12/21	2019/12/20
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2019/03/15	2020/03/14
Bilog Antenna	Teseq	CBL6112D	23191	2019/06/17	2020/06/16
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2019/05/28	2020/05/27
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/01/16	2020/01/15
Pre-Amplifier	DEKRA	AP-025C	201801236	2019/02/18	2020/02/17
Pre-Amplifier	EMCI	EMC11830I	980366	2018/12/21	2019/12/20
Pre-Amplifier	DEKRA	AP-400C	201801231	2018/12/05	2019/12/04
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2018/10/17	2019/10/16
Band Reject Filter	Micro-Tronics	BRM50702	G192	2019/03/27	2020/03/26
Signal Analyzer	R&S	FSV40	101435	2019/07/08	2020/07/07
Coaxial Cable(16m)	Huber+Suhner	SF104	CB2-H	2018/08/21	2019/08/20
EMI system	DEKRA	Version 1.0	CB2-H	NA	NA

RF antenna conducted test / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/12/21	2019/12/20

Radiated Emission Band Edge / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2018/11/05	2019/11/04
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/12/21	2019/12/20
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2019/03/15	2020/03/14
Bilog Antenna	Teseq	CBL6112D	23191	2019/06/17	2020/06/16
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2019/05/28	2020/05/27
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/01/16	2020/01/15
Pre-Amplifier	DEKRA	AP-025C	201801236	2019/02/18	2020/02/17
Pre-Amplifier	EMCI	EMC11830I	980366	2018/12/21	2019/12/20
Pre-Amplifier	DEKRA	AP-400C	201801231	2018/12/05	2019/12/04
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2018/10/17	2019/10/16
Band Reject Filter	Micro-Tronics	BRM50702	G192	2019/03/27	2020/03/26
Signal Analyzer	R&S	FSV40	101435	2019/07/08	2020/07/07
Coaxial Cable(16m)	Huber+Suhner	SF104	CB2-H	2018/08/21	2019/08/20
EMI system	DEKRA	Version 1.0	CB2-H	NA	NA

Occupied Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/12/21	2019/12/20

DTS Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/12/21	2019/12/20

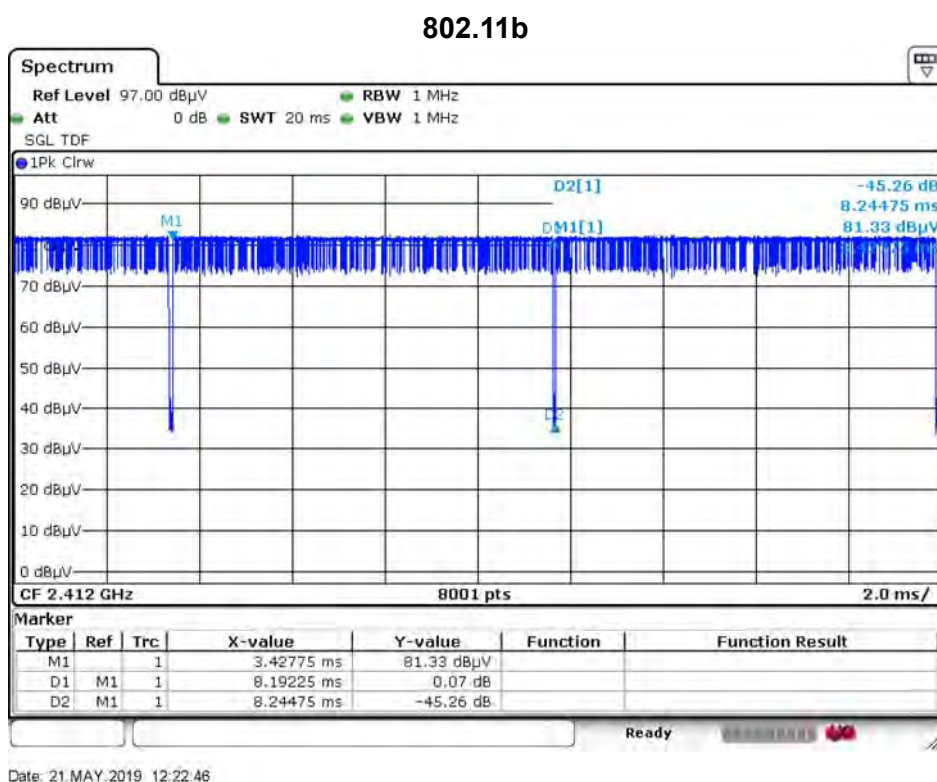
Power Density / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/12/21	2019/12/20

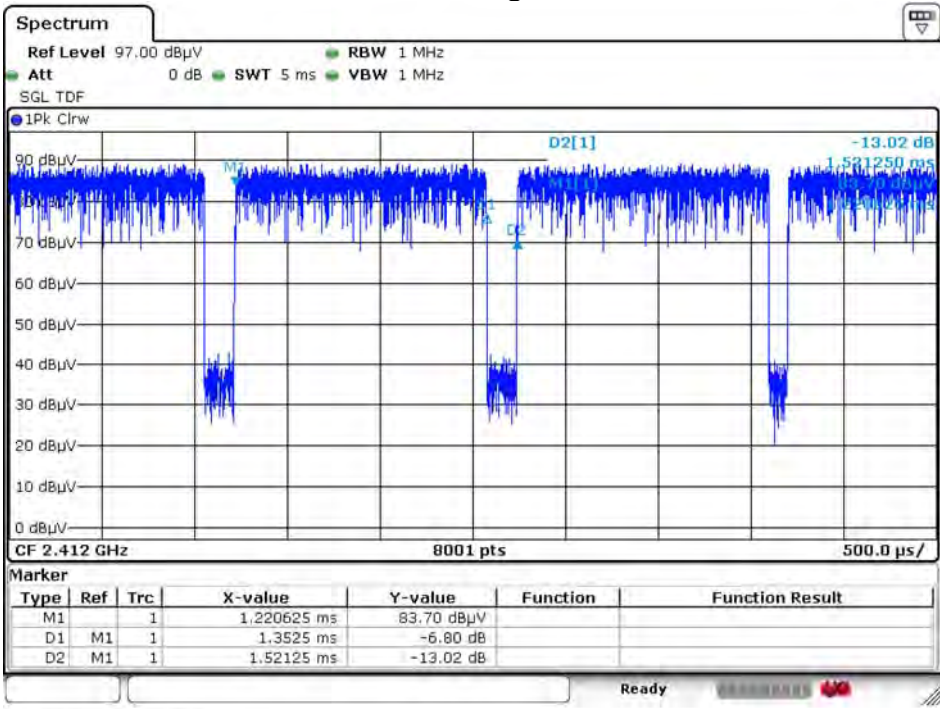
Note: All equipment upon which need to calibrated are with calibration period of 1 year.

1.8. Duty Cycle

2.4GHz mode					
Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor(dB linear voltage)	1/T Minimum VBW (kHz)
802.11b	8.192	8.244	99.37%	0.054961	0.01
802.11g	1.352	1.521	88.89%	1.023050	0.74
802.11n HT20	1.264	1.388	91.07%	0.812848	0.79
802.11n HT40	0.598	0.711	84.11%	1.503368	1.67

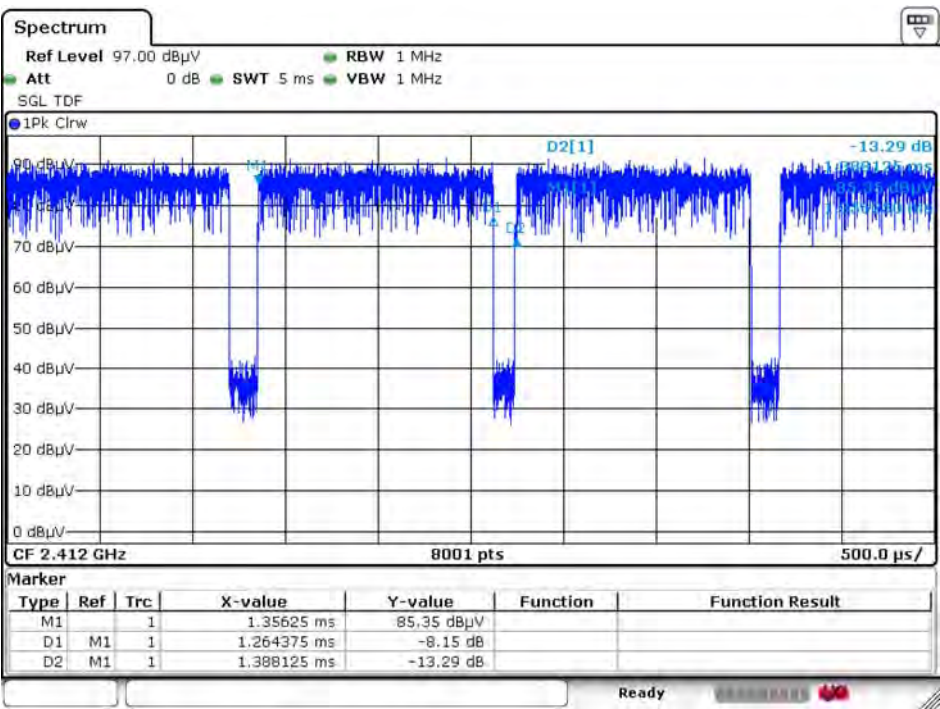


802.11g



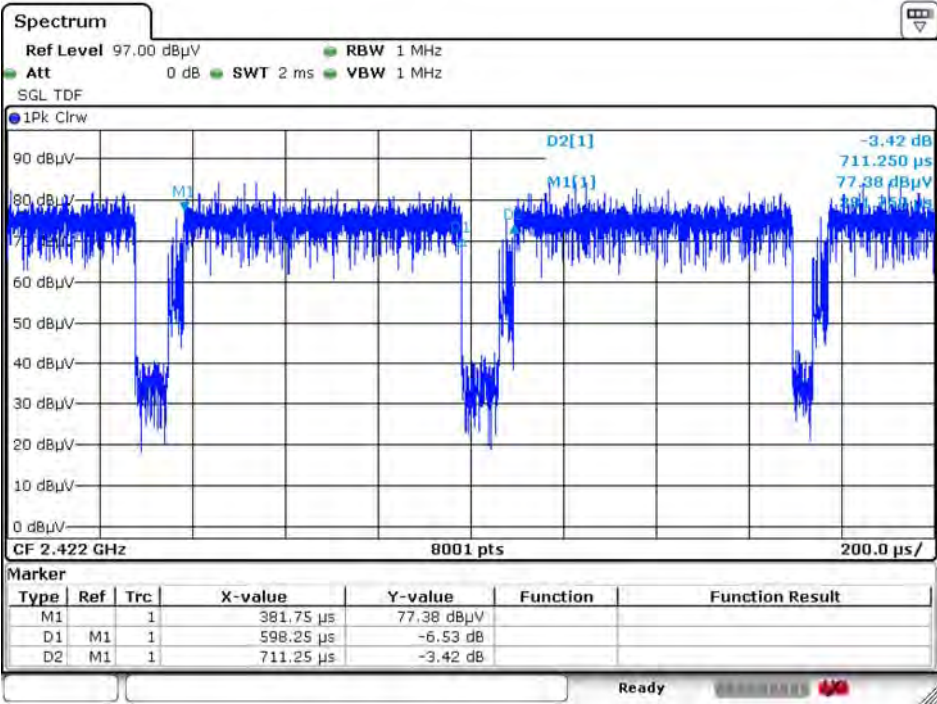
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802.11n (20M)



Date: 21.MAY.2019 12:14:37

802.11n (40M)



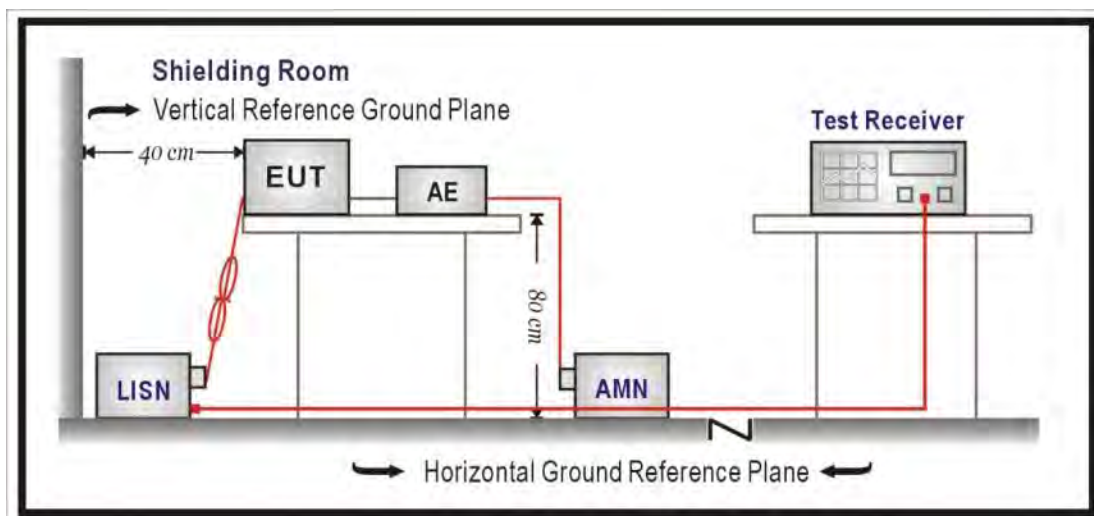
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1.9. Uncertainty

Test item	Uncertainty
Conducted Emission	$\pm 2.34\text{dB}$
Maximum peak conducted output power	$\pm 1.16\text{dB}$
Radiated Emission	$\pm 3.40\text{dB}$ below 1GHz $\pm 3.46\text{dB}$ above 1GHz
RF antenna conducted test	$\pm 3.46\text{dB}$ above 1GHz
Radiated Emission Band Edge	$\pm 2.11\text{dB}$
DTS Bandwidth	$\pm 282\text{Hz}$
Occupied Bandwidth	$\pm 282\text{Hz}$
Power Density	$\pm 2.11\text{dB}$

2. Conducted Emission

2.1. Test Setup



2.2. 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

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

2.3. Test Procedure

The EUT was setup according to ANSI C63.4: 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.

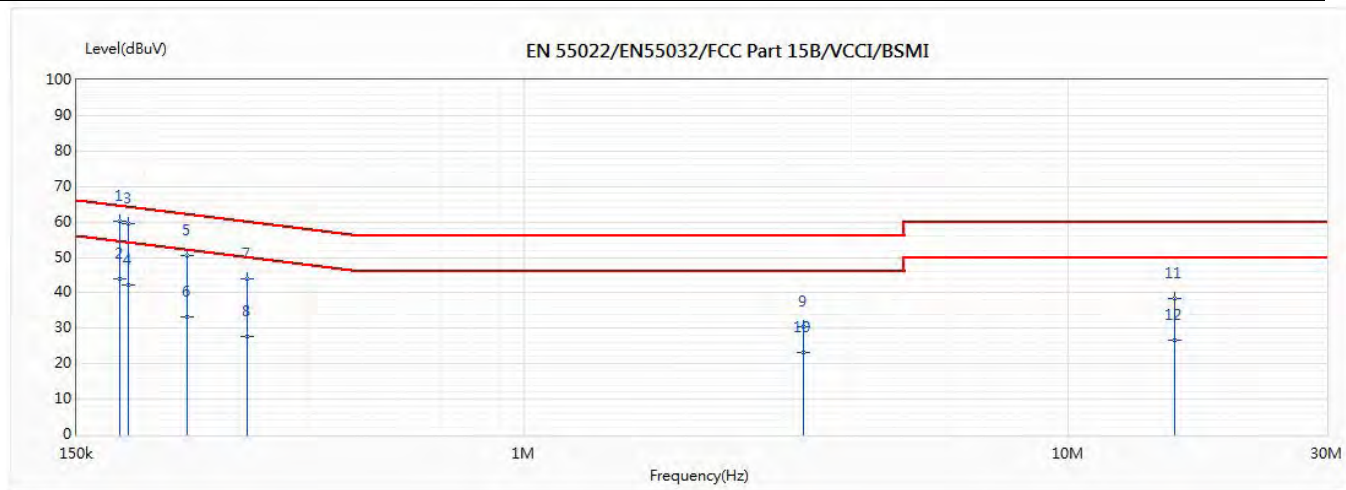
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.207: 2018

2.5. Test Result

Site :	SR2-H	Engineer :	Scott
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/29
Test Voltage :	AC 120V/60Hz	Phase :	L1
Test Mode :	Mode 1: Transmit		
Note :	802.11n (40M)_2437MHz		

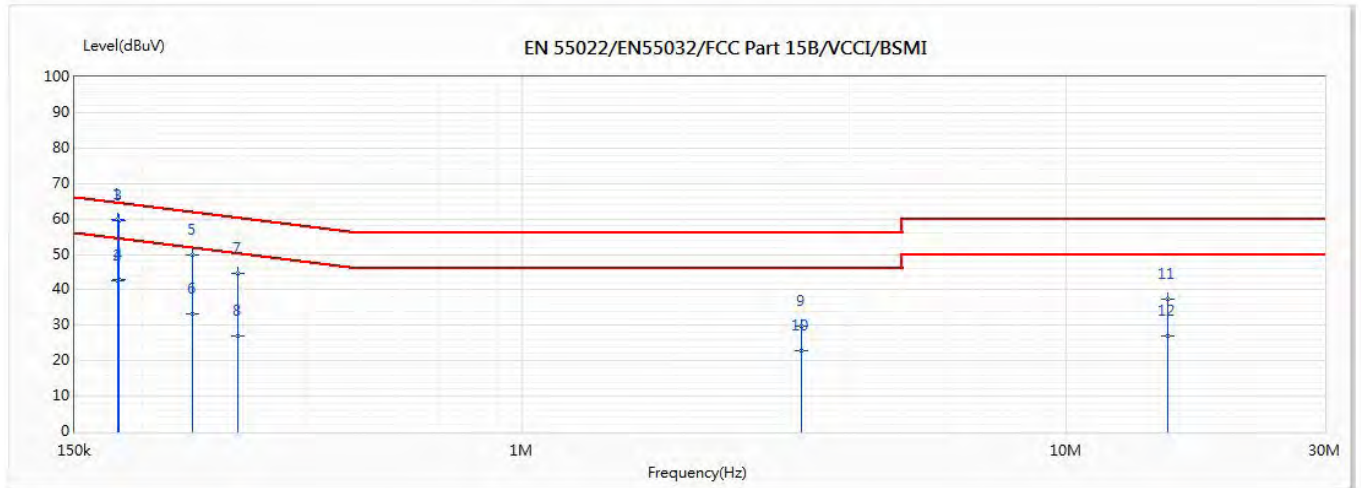


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Cable Loss (dB)	LISN (dB)	Detector Type
*1	0.18	60.11	65.14	-5.03	50.34	0.20	9.57	QP
2	0.18	43.78	55.14	-11.36	34.01	0.20	9.57	AV
3	0.186	59.35	64.96	-5.61	49.58	0.20	9.57	QP
4	0.186	42.18	54.96	-12.78	32.41	0.20	9.57	AV
5	0.239	50.56	63.46	-12.90	40.79	0.20	9.57	QP
6	0.239	33.31	53.46	-20.15	23.54	0.20	9.57	AV
7	0.308	43.95	61.48	-17.53	34.18	0.20	9.57	QP
8	0.308	27.60	51.48	-23.88	17.83	0.20	9.57	AV
9	3.259	30.37	56.00	-25.63	20.53	0.24	9.60	QP
10	3.259	23.18	46.00	-22.82	13.34	0.24	9.60	AV
11	15.767	38.46	60.00	-21.54	28.15	0.60	9.72	QP
12	15.767	26.63	50.00	-23.37	16.31	0.60	9.72	AV

Note:

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

Site :	SR2-H	Engineer :	Scott
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/29
Test Voltage :	AC 120V/60Hz	Phase :	L2
Test Mode :	Mode 1: Transmit		
Note :	802.11n (40M)_2437MHz		



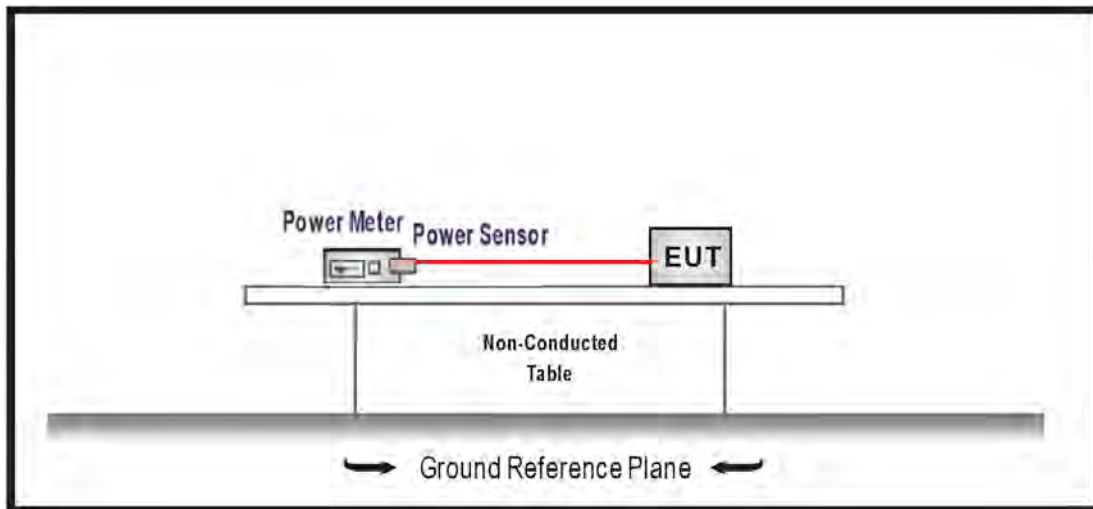
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Cable Loss (dB)	LISN (dB)	Detector Type
*1	0.18	59.94	65.15	-5.21	50.17	0.20	9.57	QP
2	0.18	42.73	55.15	-12.42	32.96	0.20	9.57	AV
3	0.181	59.59	65.13	-5.54	49.82	0.20	9.57	QP
4	0.181	43.06	55.13	-12.07	33.29	0.20	9.57	AV
5	0.247	49.72	63.24	-13.51	39.95	0.20	9.57	QP
6	0.247	33.30	53.24	-19.94	23.53	0.20	9.57	AV
7	0.3	44.62	61.73	-17.11	34.85	0.20	9.57	QP
8	0.3	27.09	51.73	-24.63	17.32	0.20	9.57	AV
9	3.257	29.63	56.00	-26.37	19.78	0.24	9.60	QP
10	3.257	22.88	46.00	-23.12	13.04	0.24	9.60	AV
11	15.442	37.37	60.00	-22.63	27.05	0.60	9.71	QP
12	15.442	27.14	50.00	-22.86	16.83	0.60	9.71	AV

Note:

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

3. Maximum peak conducted output power

3.1. Test Setup



3.2. Test procedures

The EUT was tested according to DTS test procedure section 8.3.1.3 of KDB 558074 D01 v05r02 & Subclause 11.9.1.3 of ANSI C63.10 Measurement to FCC 47CFR 15.247 requirements.

3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2018

3.5. Test Result

Product	N150 Wi-Fi Nano USB Adapter		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit		
Date of Test	2019/08/14	Test Site	SR10-H

IEEE 802.11b (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	19.150	≤ 30
6	2437	18.500	≤ 30
11	2462	17.410	≤ 30

The worst emission of data rate is 1Mbps

No	Frequency (MHz)	1	2	5.5	11	Limit
1	2412	19.150	--	--	--	≤ 30.000
6	2437	18.500	18.360	18.210	18.070	≤ 30.000
11	2462	17.410	--	--	--	≤ 30.000

Product	N150 Wi-Fi Nano USB Adapter		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit		
Date of Test	2019/08/14	Test Site	SR10-H

IEEE 802.11g (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	19.880	≤ 30
6	2437	20.540	≤ 30
11	2462	20.400	≤ 30

The worst emission of data rate is 6Mbps

No	Frequency (MHz)	6	12	18	24	36	48	54	Limit
1	2412	19.880	--	--	--	--	--	--	≤ 30.000
6	2437	20.540	20.410	20.260	20.130	19.990	19.860	19.730	≤ 30.000
11	2462	20.400	--	--	--	--	--	--	≤ 30.000

Product	N150 Wi-Fi Nano USB Adapter		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit		
Date of Test	2019/08/14	Test Site	SR10-H

IEEE 802.11n (20M) (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	19.750	≤ 30
6	2437	20.940	≤ 30
11	2462	20.330	≤ 30

The worst emission of data rate is MCS 0

No	Frequency (MHz)	0	1	2	3	4	5	6	7	Limit (dBm)
1	2412	19.750	--	--	--	--	--	--	--	≤ 30.000
6	2437	20.940	20.800	20.660	20.530	20.390	20.260	20.110	19.970	≤ 30.000
11	2462	20.330	--	--	--	--	--	--	--	≤ 30.000

Product	N150 Wi-Fi Nano USB Adapter		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit		
Date of Test	2019/08/14	Test Site	SR10-H

IEEE 802.11n (40M) (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	20.450	≤ 30
6	2437	22.530	≤ 30
9	2452	21.490	≤ 30

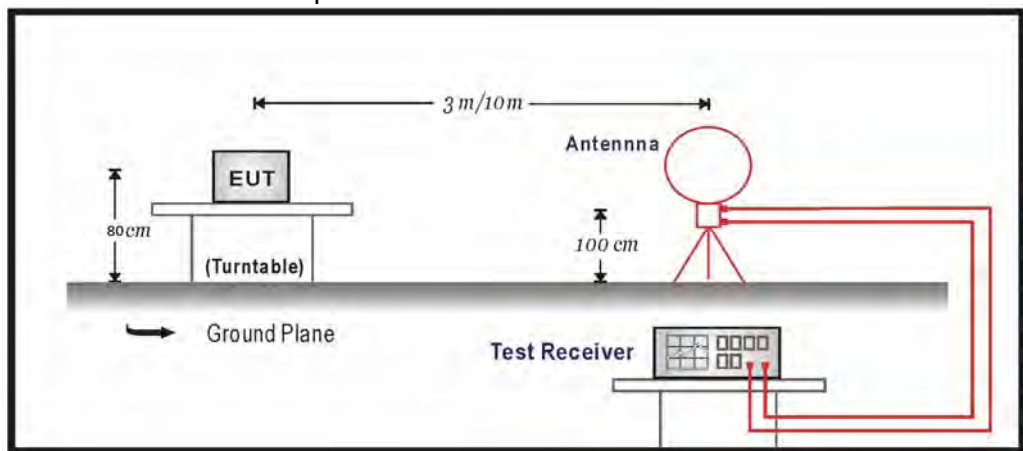
The worst emission of data rate is MCS 0

No	Frequency (MHz)	0	1	2	3	4	5	6	7	Limit (dBm)
3	2412	20.450	--	--	--	--	--	--	--	≤ 30.000
6	2437	22.530	22.380	22.240	22.110	21.970	21.830	21.680	21.550	≤ 30.000
9	2452	21.490	--	--	--	--	--	--	--	≤ 30.000

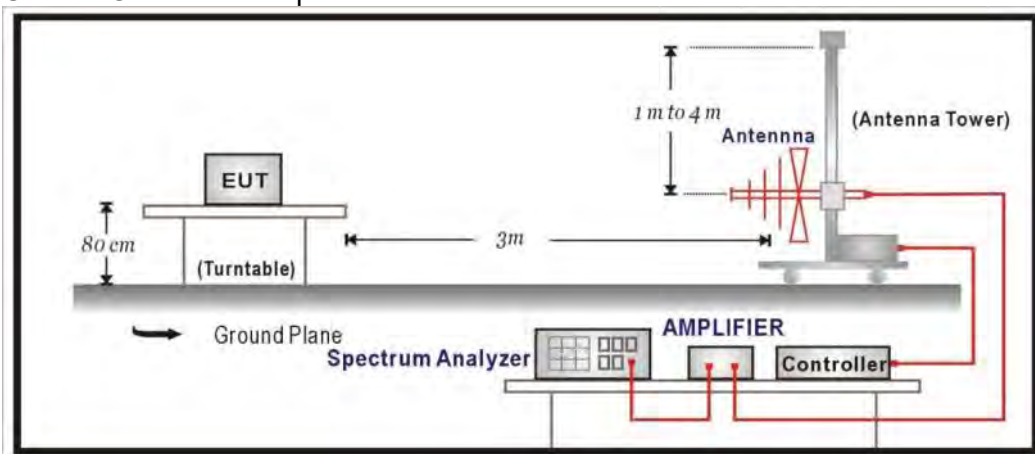
4. Radiated Emission

4.1. Test Setup

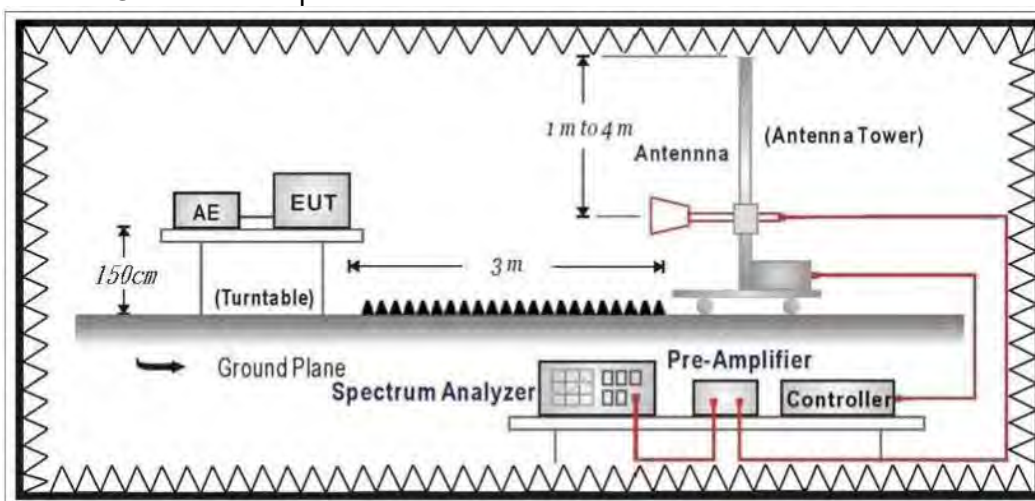
Under 30MHz Test Setup:



Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.2. 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)	uV/m	dBuV/m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.3. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to DTS test procedure of KDB 558074 D01 v05r02 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 C63.10:2013 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.

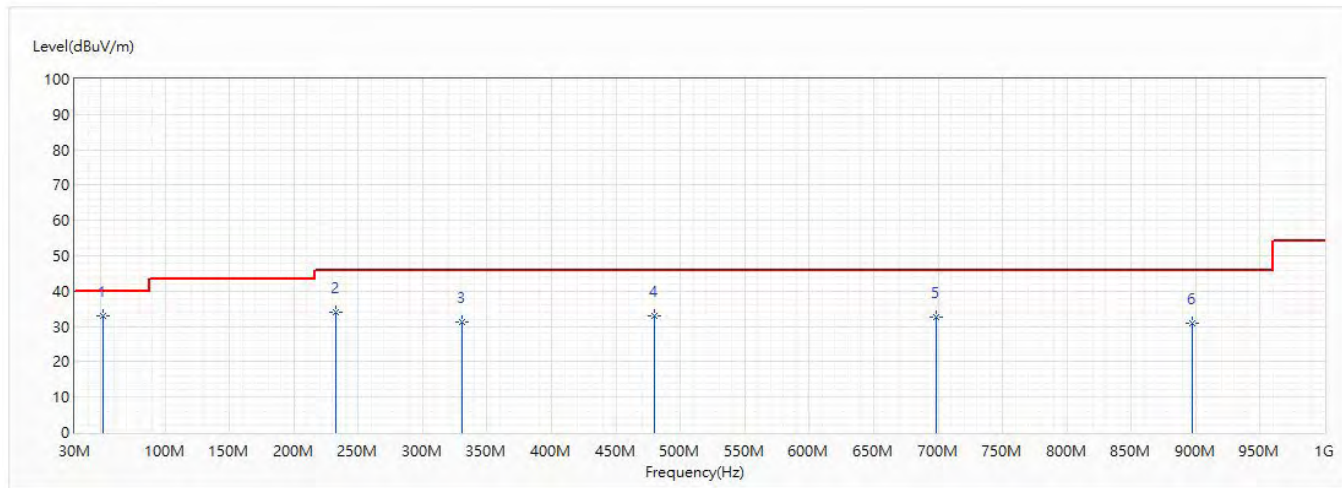
4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2018

4.5. Test Result

30MHz-1GHz Spurious

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/24
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11b_2437MHz		

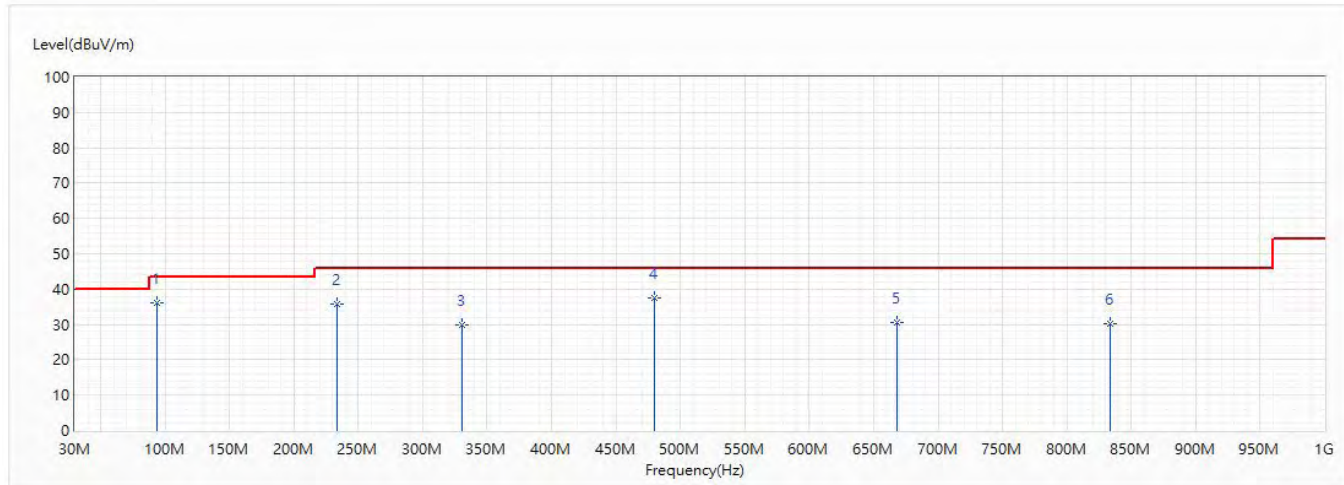


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	51.825	32.97	40.00	-7.03	58.95	-25.98	QP
2	232.73	34.14	46.00	-11.86	55.77	-21.63	QP
3	330.215	31.23	46.00	-14.77	49.87	-18.64	QP
4	479.838	33.02	46.00	-12.98	47.72	-14.70	QP
5	698.815	32.70	46.00	-13.30	44.88	-12.18	QP
6	896.938	30.98	46.00	-15.02	40.63	-9.65	QP

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/24
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11b_2437MHz		

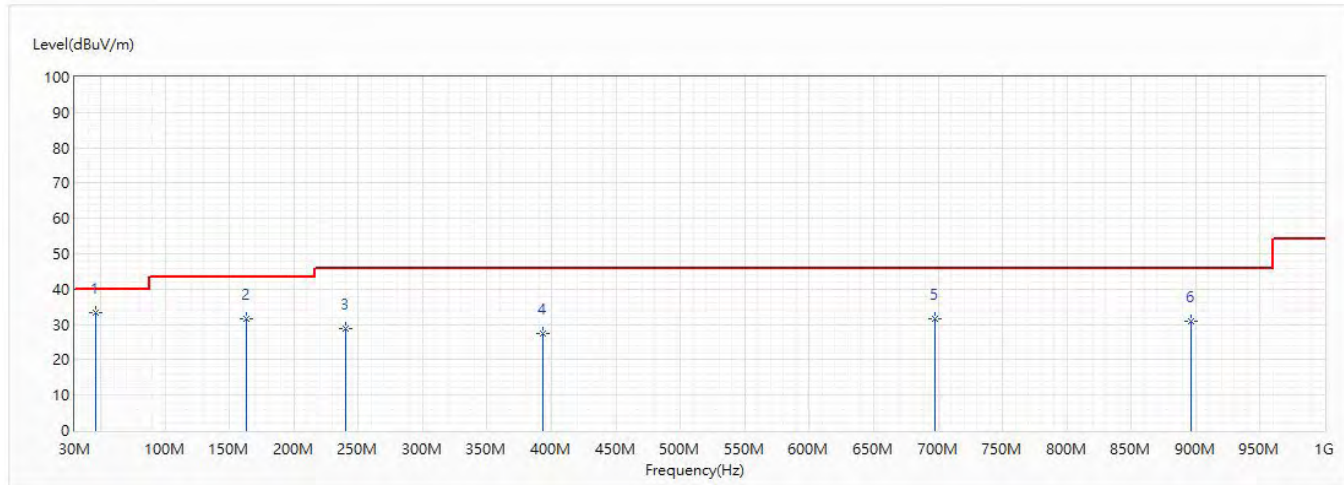


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	93.778	36.04	43.50	-7.46	60.82	-24.78	QP
2	233.215	35.67	46.00	-10.33	57.26	-21.59	QP
3	330.215	29.78	46.00	-16.22	48.42	-18.64	QP
4	479.838	37.39	46.00	-8.61	52.09	-14.70	QP
5	668.26	30.40	46.00	-15.60	42.96	-12.56	QP
6	833.403	30.10	46.00	-15.90	40.61	-10.51	QP

Note:

1. All Reading Levels is Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/24
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11g_2437MHz		

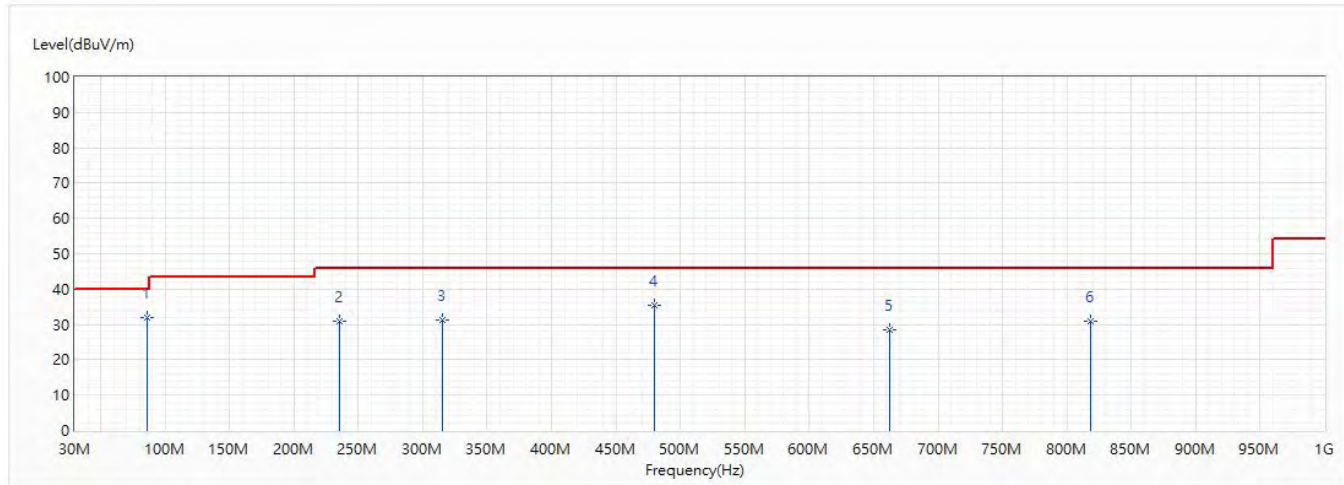


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	46.248	33.30	40.00	-6.70	56.49	-23.19	QP
2	163.375	31.48	43.50	-12.02	54.65	-23.17	QP
3	240.005	28.72	46.00	-17.28	49.92	-21.20	QP
4	393.508	27.43	46.00	-18.57	43.90	-16.47	QP
5	697.603	31.69	46.00	-14.31	43.88	-12.19	QP
6	895.968	30.77	46.00	-15.23	40.43	-9.66	QP

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/24
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11g_2437MHz		

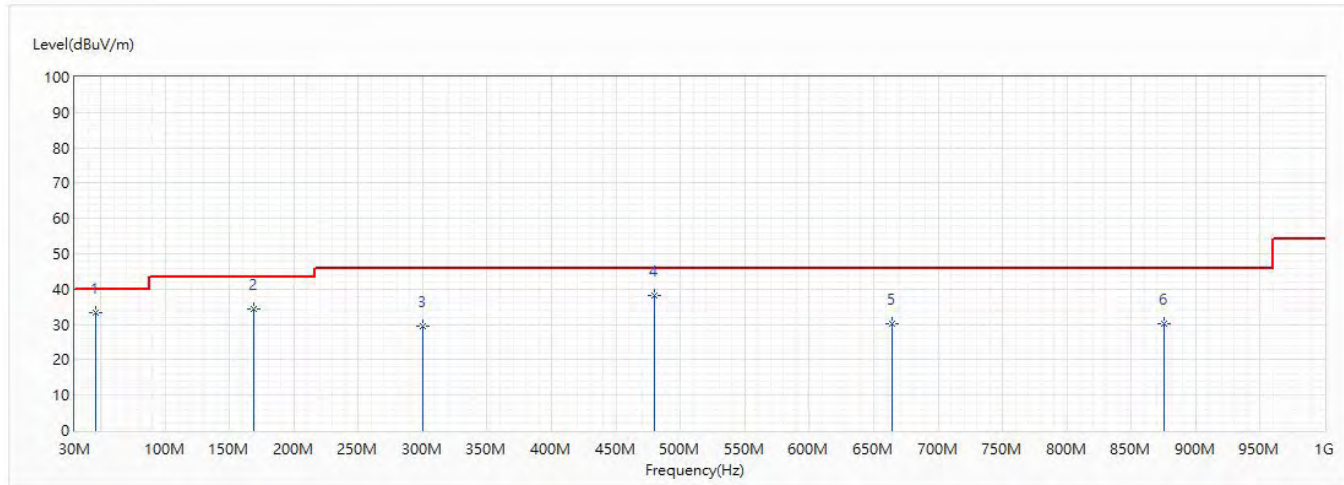


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	85.775	31.92	40.00	-8.08	58.15	-26.23	QP
2	235.64	31.06	46.00	-14.94	52.51	-21.45	QP
3	315.665	31.08	46.00	-14.92	50.21	-19.13	QP
4	479.838	35.55	46.00	-10.45	50.25	-14.70	QP
5	662.44	28.54	46.00	-17.46	41.18	-12.64	QP
6	818.368	30.73	46.00	-15.27	41.44	-10.71	QP

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/24
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M)_2437MHz		

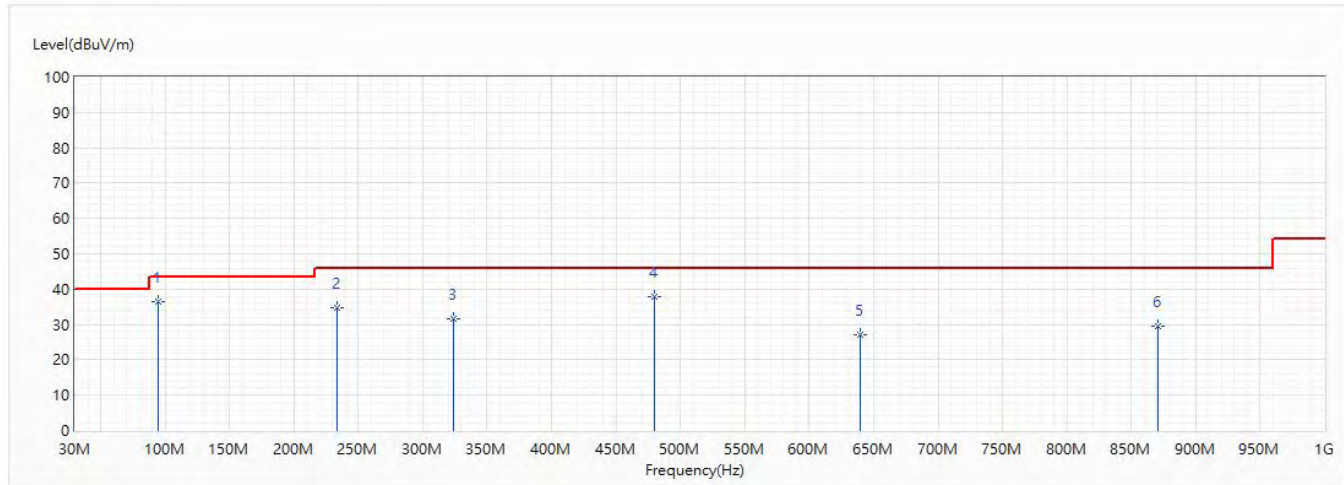


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	46.49	33.29	40.00	-6.71	56.64	-23.35	QP
2	169.195	34.39	43.50	-9.11	57.96	-23.57	QP
3	299.903	29.65	46.00	-16.35	49.28	-19.63	QP
4	480.08	38.32	46.00	-7.68	53.02	-14.70	QP
5	664.138	30.24	46.00	-15.76	42.86	-12.62	QP
6	875.355	30.09	46.00	-15.91	40.03	-9.94	QP

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/24
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M)_2437MHz		

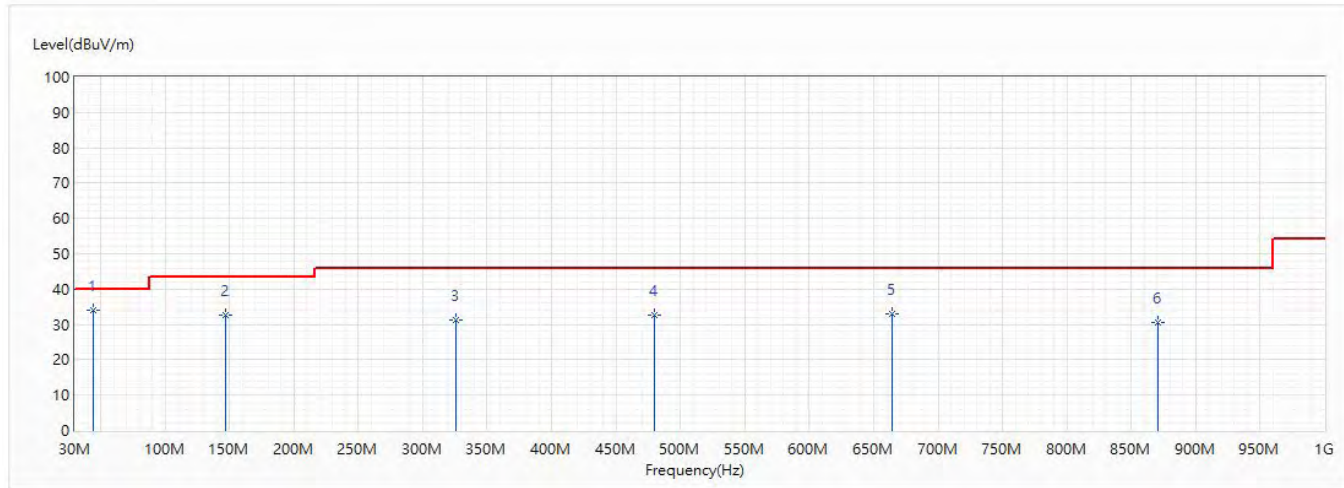


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	94.748	36.38	43.50	-7.12	60.95	-24.57	QP
2	233.215	34.74	46.00	-11.26	56.33	-21.59	QP
3	323.91	31.62	46.00	-14.38	50.47	-18.85	QP
4	479.838	37.87	46.00	-8.13	52.57	-14.70	QP
5	639.403	27.20	46.00	-18.80	40.06	-12.86	QP
6	870.263	29.51	46.00	-16.49	39.53	-10.02	QP

Note:

1. All Reading Levels is Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/24
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M)_2437MHz		

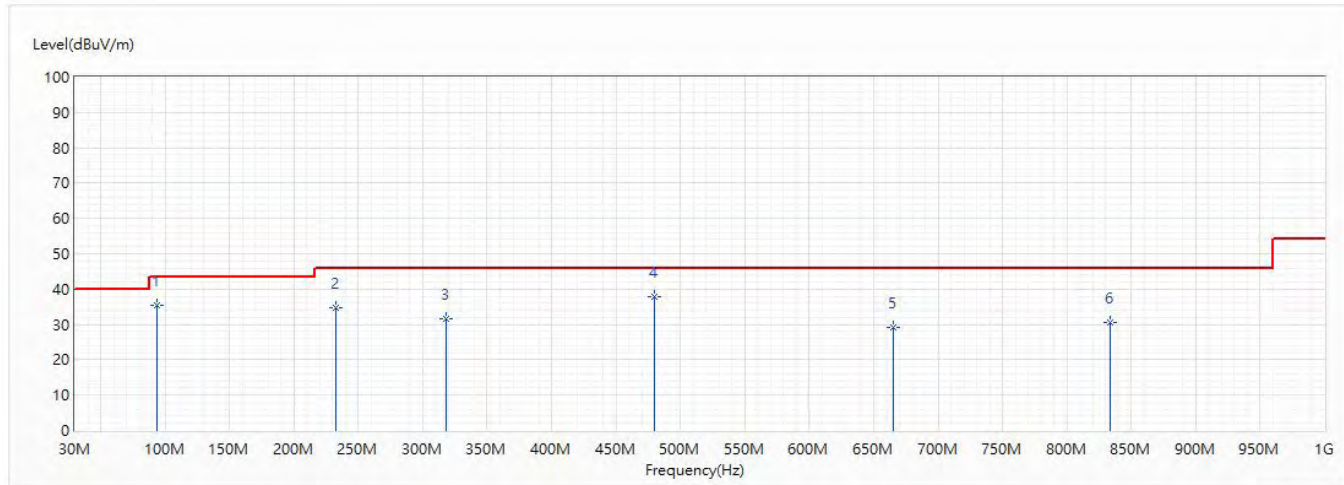


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	43.823	33.95	40.00	-6.05	55.20	-21.25	QP
2	146.885	32.50	43.50	-11.00	54.71	-22.21	QP
3	325.365	31.28	46.00	-14.72	50.09	-18.81	QP
4	479.838	32.73	46.00	-13.27	47.43	-14.70	QP
5	663.895	32.83	46.00	-13.17	45.46	-12.63	QP
6	870.263	30.46	46.00	-15.54	40.48	-10.02	QP

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/24
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M)_2437MHz		



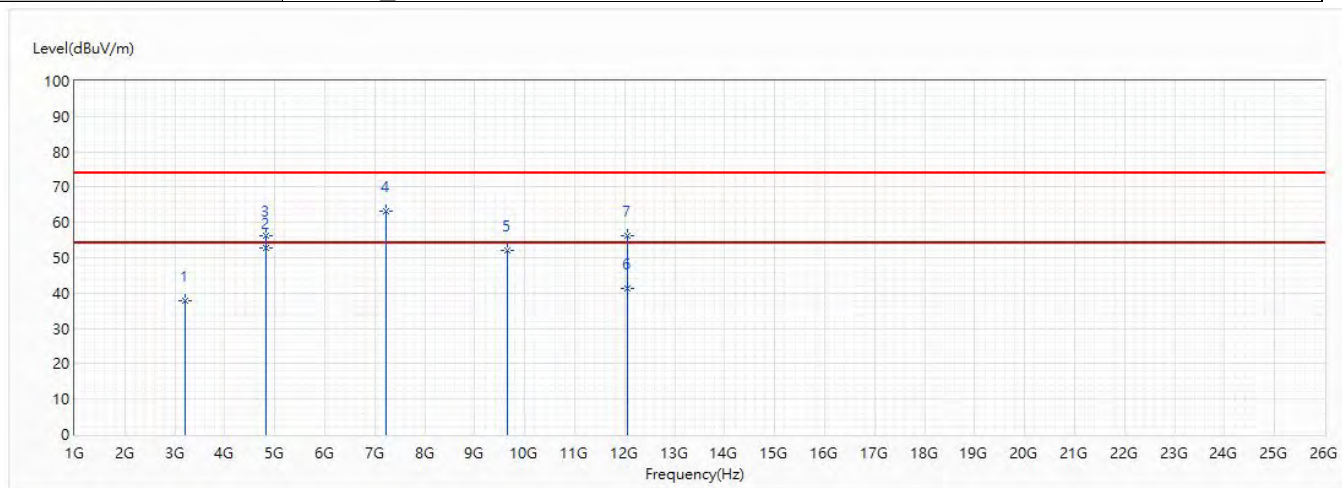
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	94.02	35.38	43.50	-8.12	60.11	-24.73	QP
2	232.245	34.86	46.00	-11.14	56.51	-21.65	QP
3	318.333	31.63	46.00	-14.37	50.67	-19.04	QP
4	479.838	37.76	46.00	-8.24	52.46	-14.70	QP
5	665.108	29.33	46.00	-16.67	41.93	-12.60	QP
6	833.16	30.62	46.00	-15.38	41.13	-10.51	QP

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are lower than 20dB away from limit.

Above 1GHz Spurious

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/17
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11b_2412MHz		

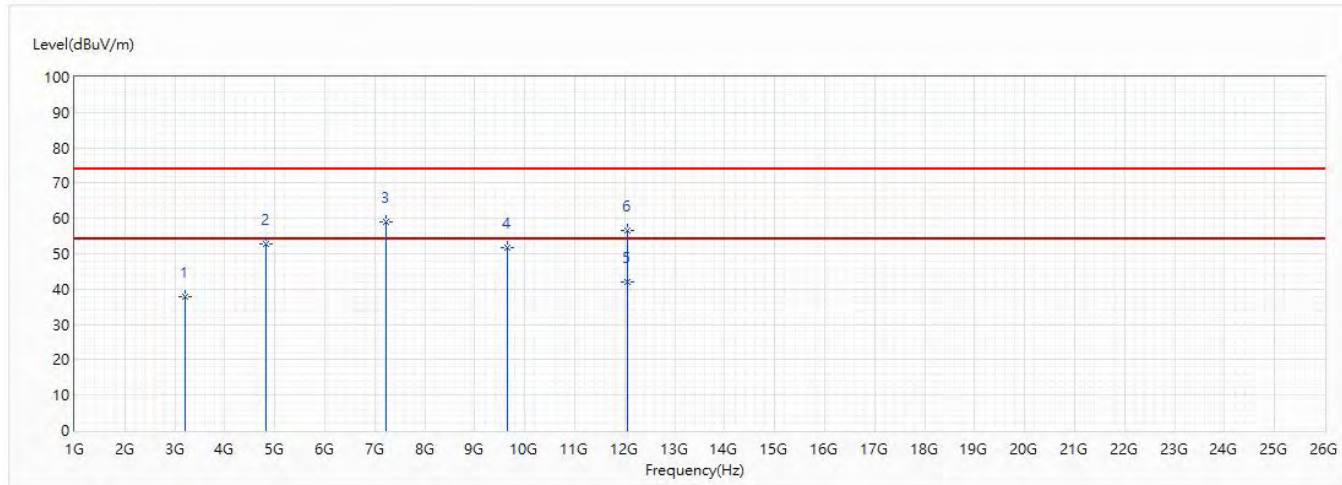


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3216	37.70	74.00	-36.30	40.98	-3.28	PK
* 2	4824	52.83	54.00	-1.17	50.97	1.86	AV
3	4824	56.17	74.00	-17.83	54.31	1.86	PK
4	7236	63.34	74.00	-10.66	52.18	11.16	PK
5	9648	51.99	74.00	-22.01	36.56	15.43	PK
6	12060	41.21	54.00	-12.79	21.98	19.23	AV
7	12060	56.14	74.00	-17.86	36.91	19.23	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11b_2412MHz		

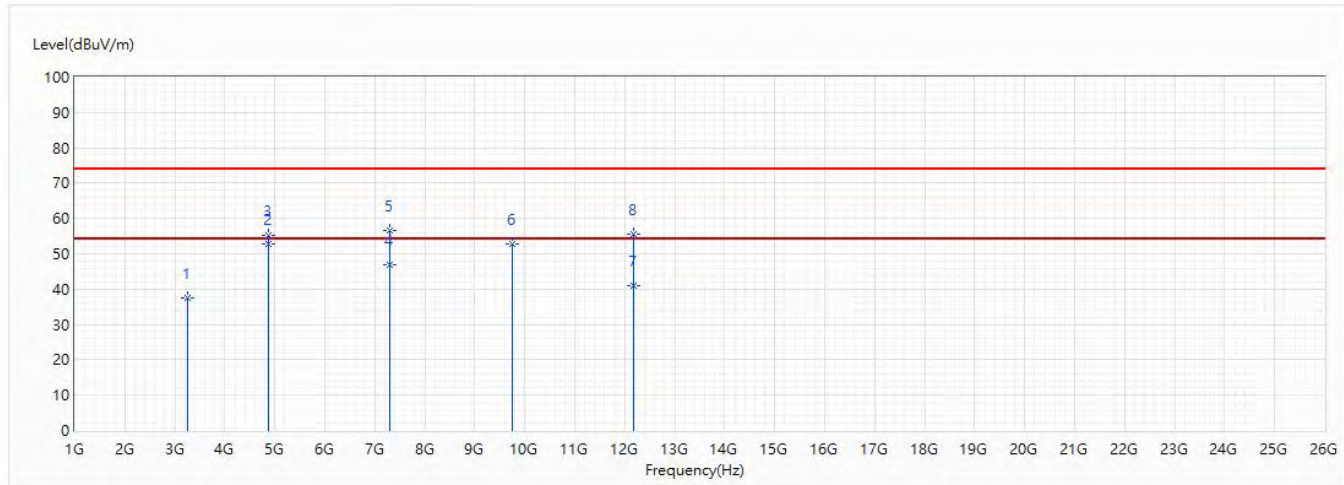


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3216	37.98	74.00	-36.02	41.26	-3.28	PK
2	4824	52.62	74.00	-21.38	50.76	1.86	PK
3	7236	58.90	74.00	-15.10	47.74	11.16	PK
4	9648	51.88	74.00	-22.12	36.45	15.43	PK
* 5	12060	41.88	54.00	-12.12	22.65	19.23	AV
6	12060	56.57	74.00	-17.43	37.34	19.23	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11b_2437MHz		

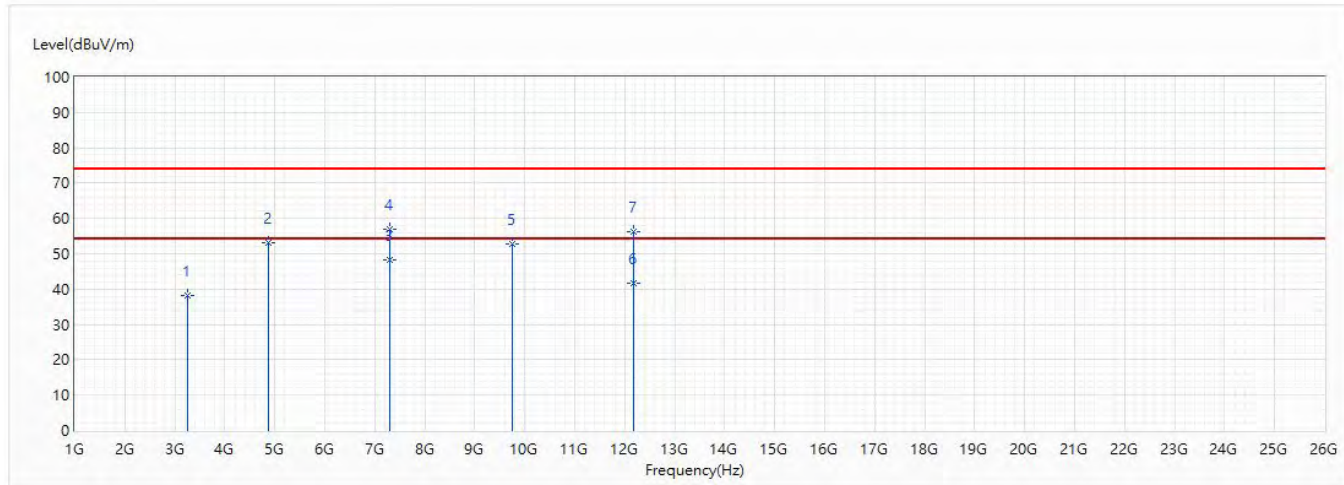


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3249	37.59	74.00	-36.41	40.83	-3.24	PK
* 2	4874	52.85	54.00	-1.15	50.83	2.02	AV
3	4874	55.32	74.00	-18.68	53.30	2.02	PK
4	7311	46.76	54.00	-7.24	35.19	11.57	AV
5	7311	56.69	74.00	-17.31	45.12	11.57	PK
6	9748	52.64	74.00	-21.36	37.01	15.63	PK
7	12185	41.11	54.00	-12.89	22.12	18.99	AV
8	12185	55.72	74.00	-18.28	36.73	18.99	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11b_2437MHz		

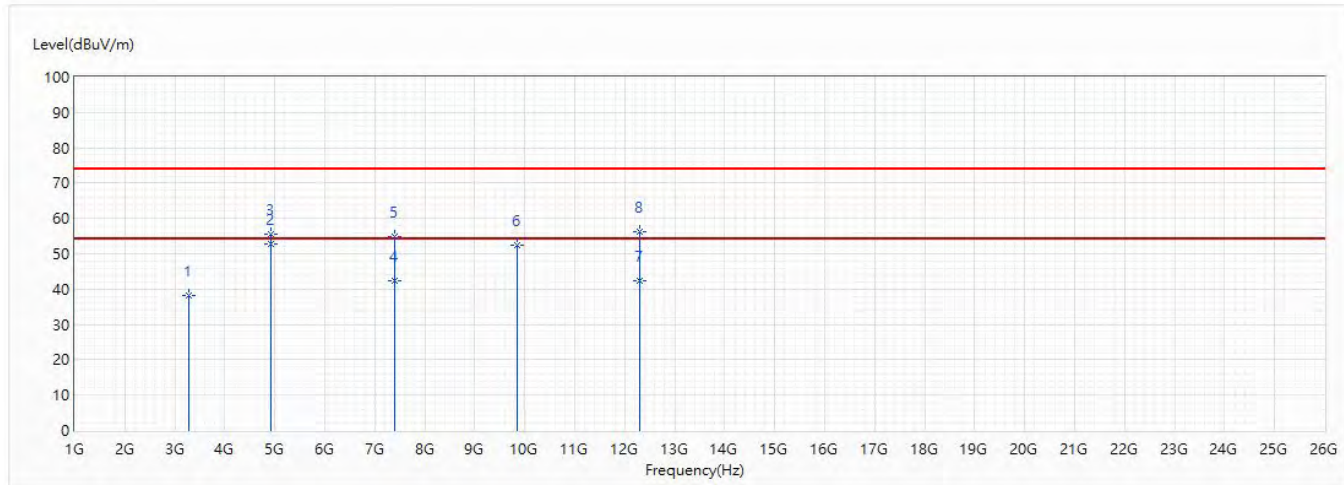


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3249	38.05	74.00	-35.95	41.29	-3.24	PK
2	4874	52.98	74.00	-21.02	50.96	2.02	PK
* 3	7311	48.23	54.00	-5.77	36.66	11.57	AV
4	7311	57.11	74.00	-16.89	45.54	11.57	PK
5	9748	52.92	74.00	-21.08	37.29	15.63	PK
6	12185	41.77	54.00	-12.23	22.78	18.99	AV
7	12185	56.42	74.00	-17.58	37.43	18.99	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11b_2462MHz		

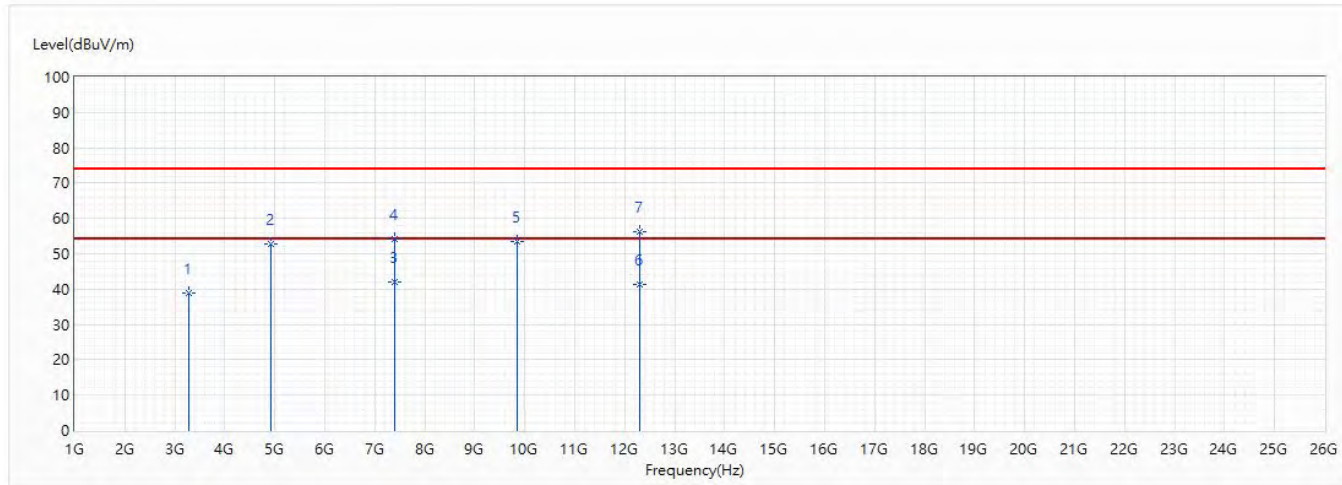


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3282	38.21	74.00	-35.79	41.40	-3.19	PK
* 2	4924	52.89	54.00	-1.11	50.71	2.18	AV
3	4924	55.63	74.00	-18.37	53.45	2.18	PK
4	7386	42.19	54.00	-11.81	30.23	11.96	AV
5	7386	54.76	74.00	-19.24	42.80	11.96	PK
6	9848	52.49	74.00	-21.51	36.66	15.83	PK
7	12310	42.33	54.00	-11.67	23.57	18.76	AV
8	12310	56.27	74.00	-17.73	37.51	18.76	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11b_2462MHz		

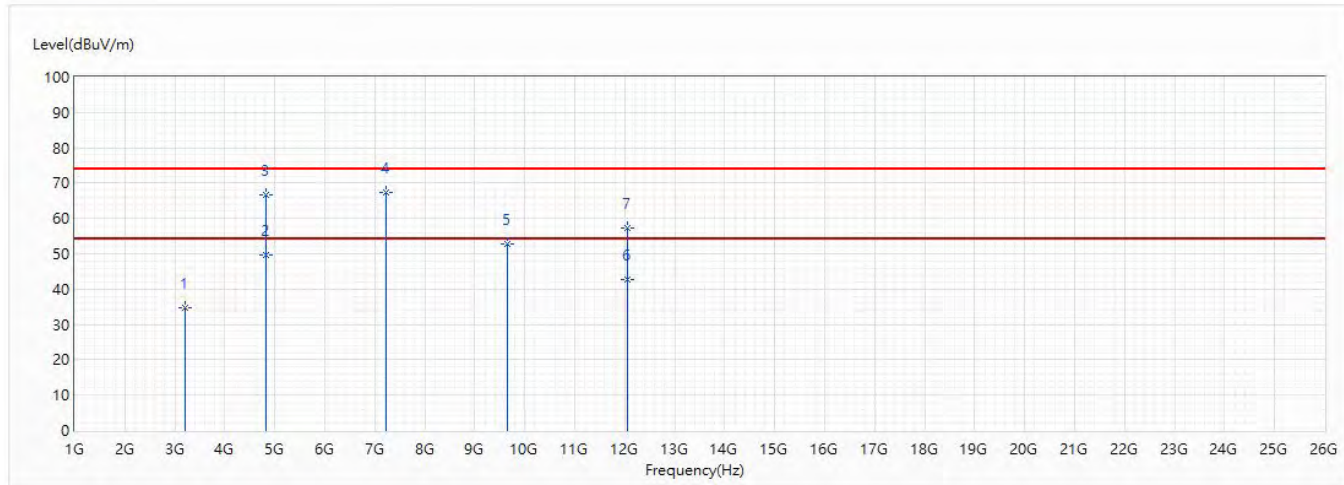


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3282	38.74	74.00	-35.26	41.93	-3.19	PK
2	4924	52.77	74.00	-21.23	50.59	2.18	PK
* 3	7386	42.16	54.00	-11.84	30.20	11.96	AV
4	7386	54.26	74.00	-19.74	42.30	11.96	PK
5	9848	53.58	74.00	-20.42	37.75	15.83	PK
6	12310	41.33	54.00	-12.67	22.57	18.76	AV
7	12310	56.23	74.00	-17.77	37.47	18.76	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/23
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11g_2412MHz		

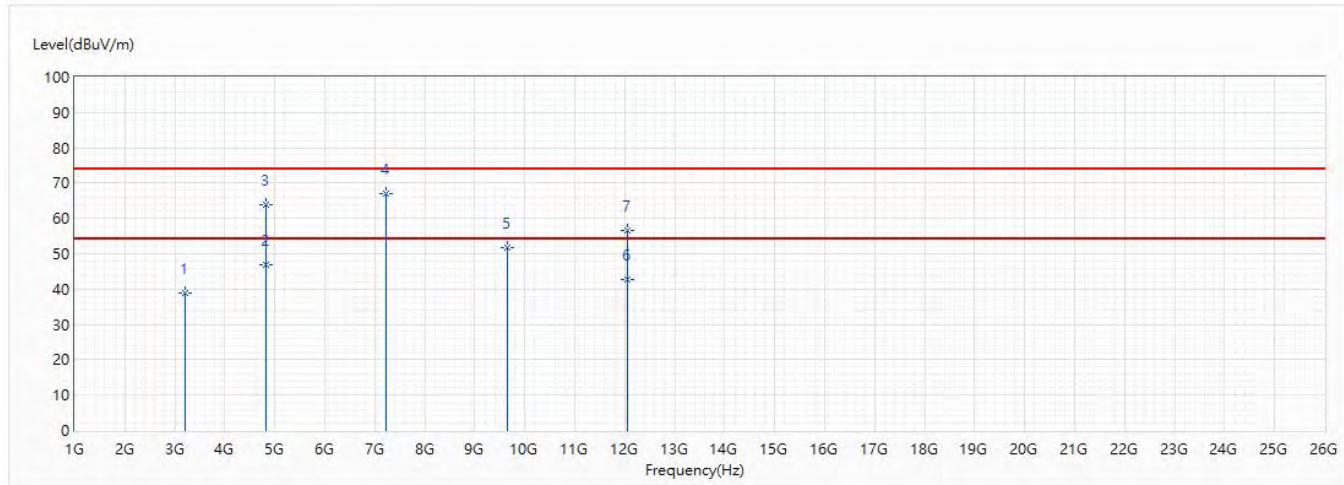


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3216	34.85	74.00	-39.15	38.13	-3.28	PK
* 2	4824	49.71	54.00	-4.29	47.85	1.86	AV
3	4824	66.56	74.00	-7.44	64.70	1.86	PK
4	7236	67.49	74.00	-6.51	56.33	11.16	PK
5	9648	52.80	74.00	-21.20	37.37	15.43	PK
6	12060	42.66	54.00	-11.34	23.43	19.23	AV
7	12060	57.42	74.00	-16.58	38.19	19.23	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/23
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11g_2412MHz		

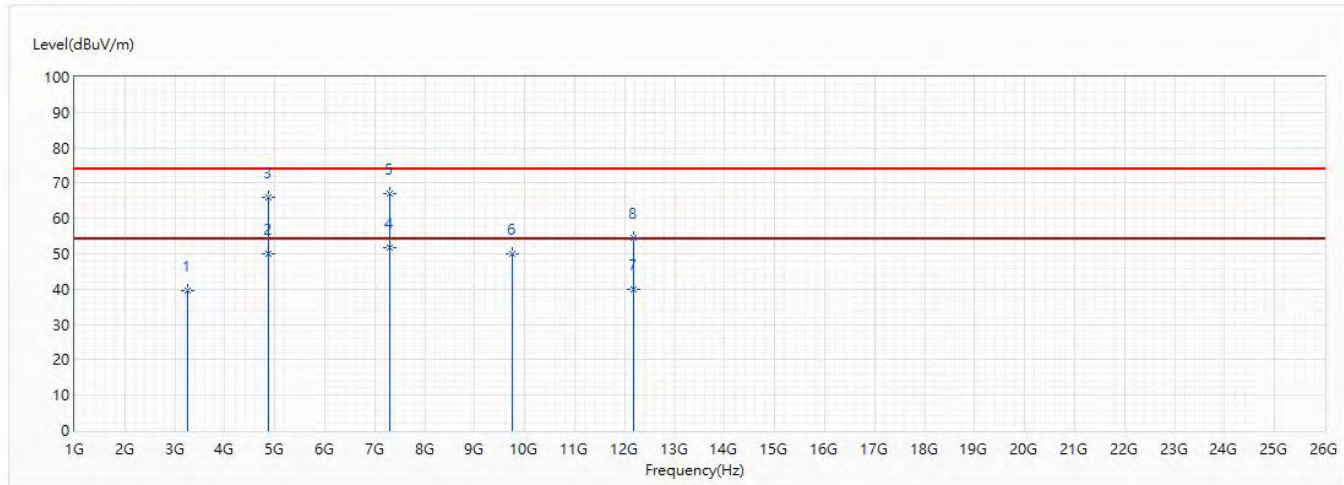


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3216	38.79	74.00	-35.21	42.07	-3.28	PK
2	4824	46.85	54.00	-7.15	44.99	1.86	AV
3	4824	64.06	74.00	-9.94	62.20	1.86	PK
* 4	7236	67.00	74.00	-7.00	55.84	11.16	PK
5	9648	51.82	74.00	-22.18	36.39	15.43	PK
6	12060	42.69	54.00	-11.31	23.46	19.23	AV
7	12060	56.73	74.00	-17.27	37.50	19.23	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/19
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11g_2437MHz		

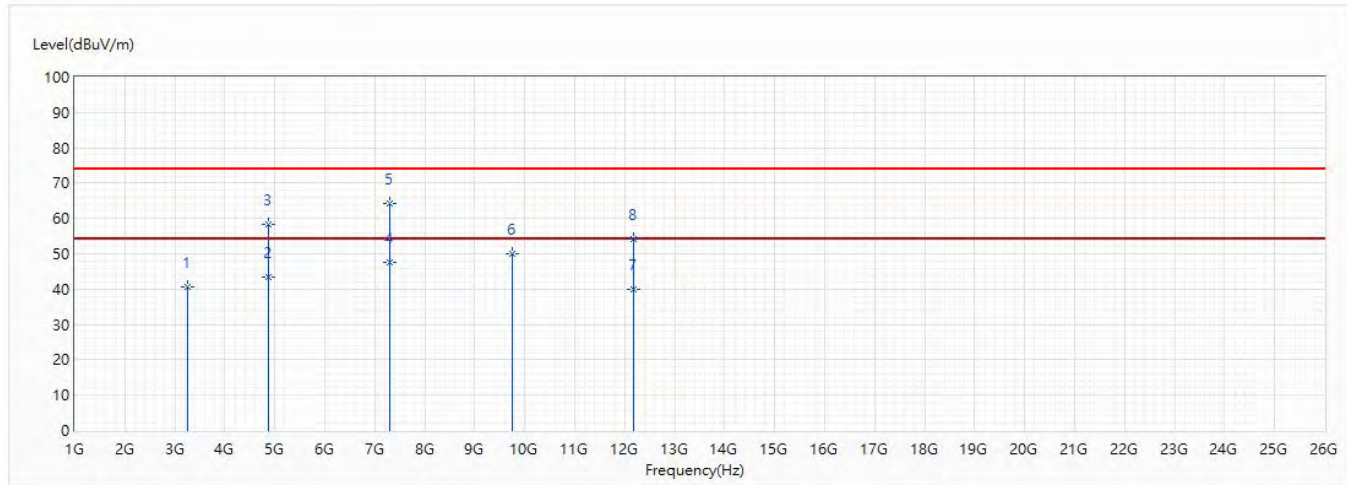


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3249	39.63	74.00	-34.37	42.87	-3.24	PK
2	4874	50.07	54.00	-3.93	48.05	2.02	AV
3	4874	66.02	74.00	-7.98	64.00	2.02	PK
* 4	7311	51.82	54.00	-2.18	40.25	11.57	AV
5	7311	67.18	74.00	-6.82	55.61	11.57	PK
6	9748	50.13	74.00	-23.87	34.50	15.63	PK
7	12185	40.09	54.00	-13.91	21.10	18.99	AV
8	12185	54.45	74.00	-19.55	35.46	18.99	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11g_2437MHz		

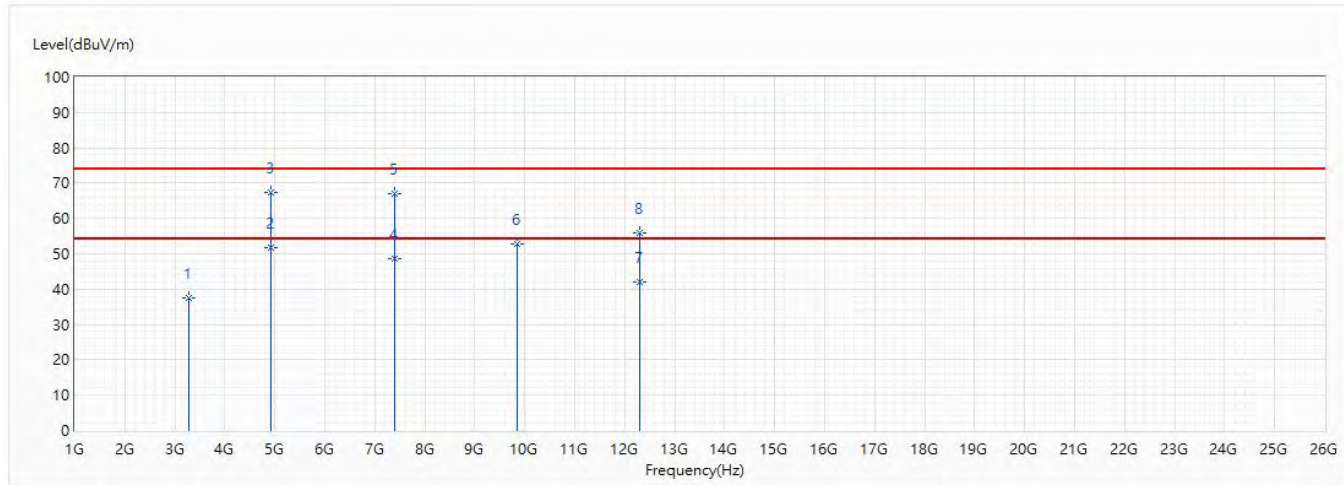


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3249	40.55	74.00	-33.45	43.79	-3.24	PK
2	4874	43.55	54.00	-10.45	41.53	2.02	AV
3	4874	58.29	74.00	-15.71	56.27	2.02	PK
* 4	7311	47.40	54.00	-6.60	35.83	11.57	AV
5	7311	64.19	74.00	-9.81	52.62	11.57	PK
6	9748	49.86	74.00	-24.14	34.23	15.63	PK
7	12185	39.97	54.00	-14.03	20.98	18.99	AV
8	12185	54.02	74.00	-19.98	35.03	18.99	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/23
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11g_2462MHz		

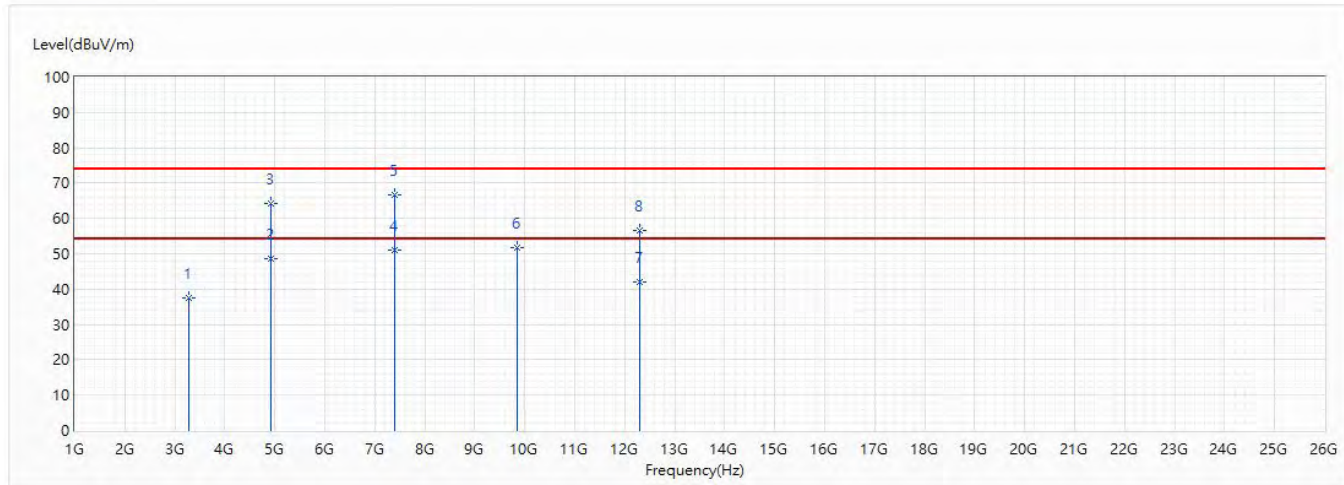


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3282	37.39	74.00	-36.61	40.58	-3.19	PK
* 2	4924	51.65	54.00	-2.35	49.47	2.18	AV
3	4924	67.42	74.00	-6.58	65.24	2.18	PK
4	7386	48.74	54.00	-5.26	36.78	11.96	AV
5	7386	67.03	74.00	-6.97	55.07	11.96	PK
6	9848	52.89	74.00	-21.11	37.06	15.83	PK
7	12310	42.15	54.00	-11.85	23.39	18.76	AV
8	12310	55.82	74.00	-18.18	37.06	18.76	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/23
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11g_2462MHz		

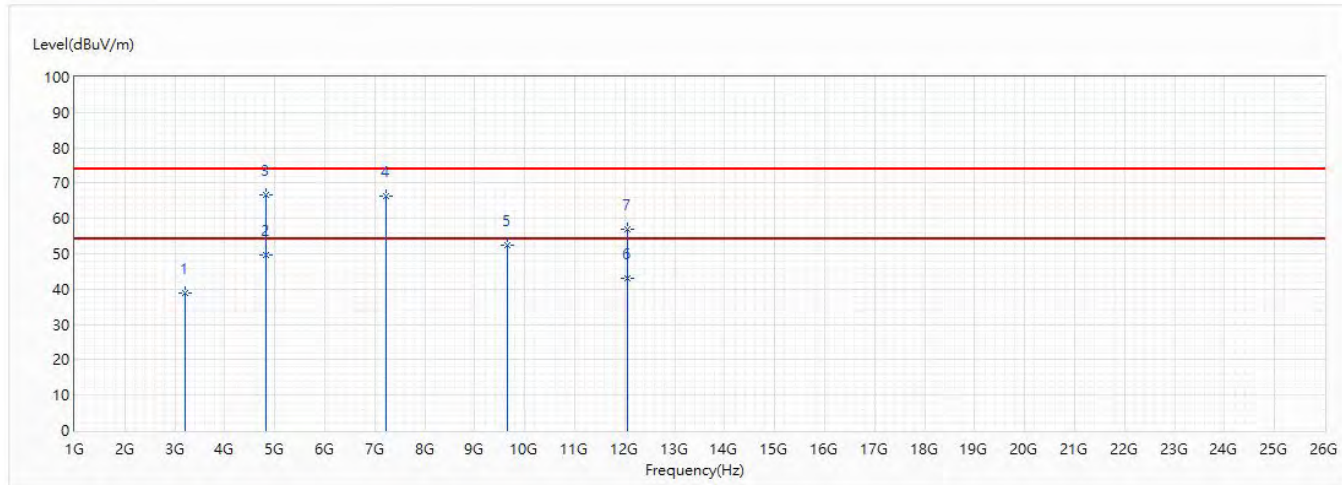


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3282	37.55	74.00	-36.45	40.74	-3.19	PK
2	4924	48.70	54.00	-5.30	46.52	2.18	AV
3	4924	64.14	74.00	-9.86	61.96	2.18	PK
* 4	7386	51.17	54.00	-2.83	39.21	11.96	AV
5	7386	66.79	74.00	-7.21	54.83	11.96	PK
6	9848	51.66	74.00	-22.34	35.83	15.83	PK
7	12310	42.16	54.00	-11.84	23.40	18.76	AV
8	12310	56.43	74.00	-17.57	37.67	18.76	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/23
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M)_2412MHz		

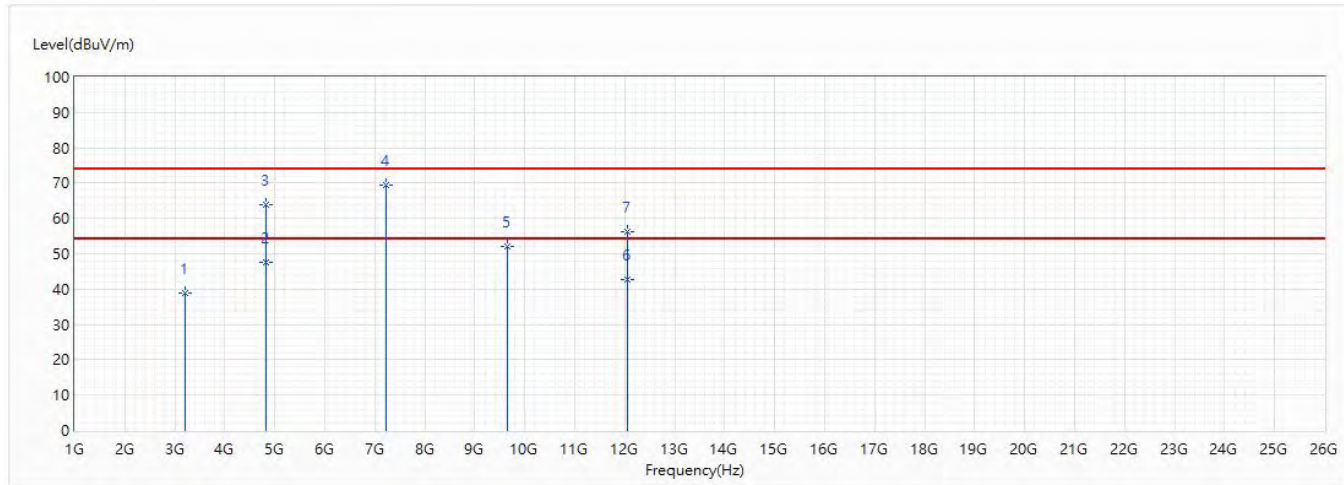


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3216	38.98	74.00	-35.02	42.26	-3.28	PK
* 2	4824	49.68	54.00	-4.32	47.82	1.86	AV
3	4824	66.66	74.00	-7.34	64.80	1.86	PK
4	7236	66.20	74.00	-7.80	55.04	11.16	PK
5	9648	52.52	74.00	-21.48	37.09	15.43	PK
6	12060	42.95	54.00	-11.05	23.72	19.23	AV
7	12060	56.94	74.00	-17.06	37.71	19.23	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/23
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M)_2412MHz		

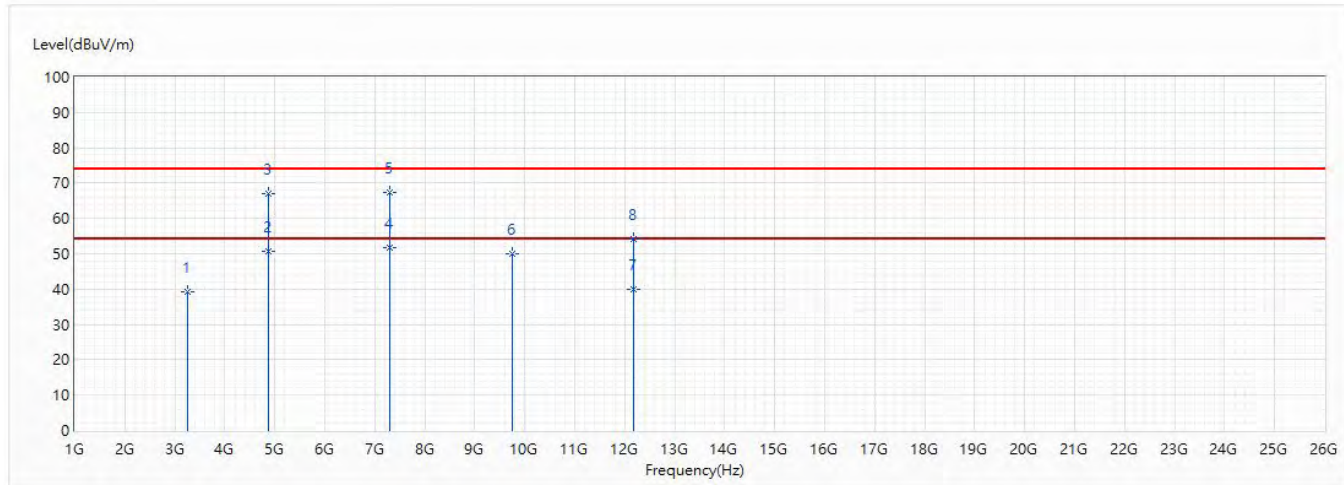


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3216	39.04	74.00	-34.96	42.32	-3.28	PK
2	4824	47.45	54.00	-6.55	45.59	1.86	AV
3	4824	63.89	74.00	-10.11	62.03	1.86	PK
* 4	7236	69.42	74.00	-4.58	58.26	11.16	PK
5	9648	52.14	74.00	-21.86	36.71	15.43	PK
6	12060	42.80	54.00	-11.20	23.57	19.23	AV
7	12060	56.39	74.00	-17.61	37.16	19.23	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/19
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M)_2437MHz		

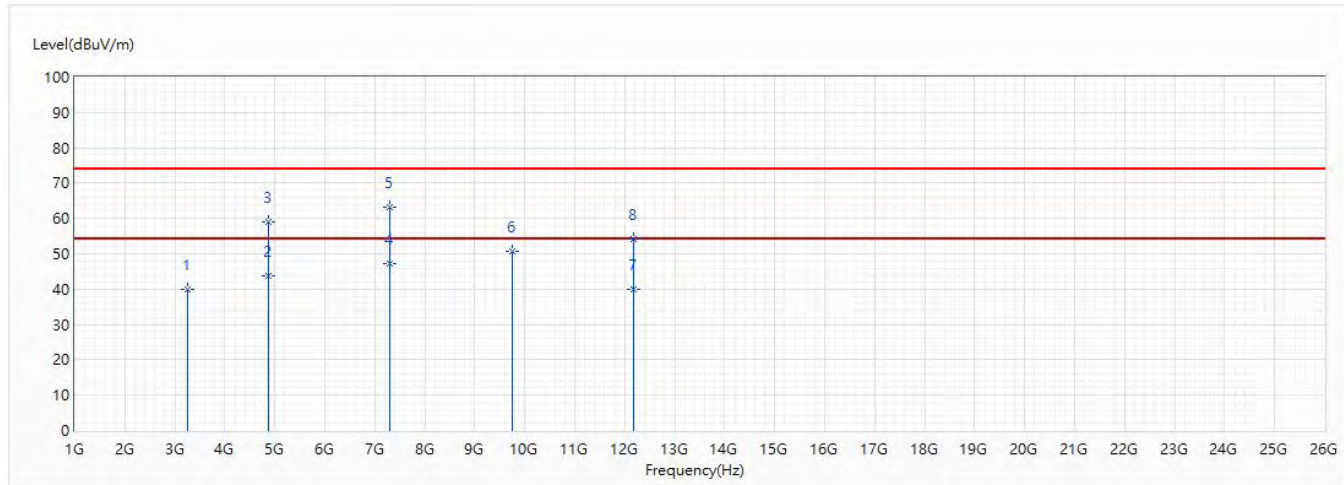


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3249	39.12	74.00	-34.88	42.36	-3.24	PK
2	4874	50.78	54.00	-3.22	48.76	2.02	AV
3	4874	67.17	74.00	-6.83	65.15	2.02	PK
* 4	7311	51.74	54.00	-2.26	40.17	11.57	AV
5	7311	67.23	74.00	-6.77	55.66	11.57	PK
6	9748	50.17	74.00	-23.83	34.54	15.63	PK
7	12185	39.91	74.00	-34.09	20.92	18.99	PK
8	12185	54.25	74.00	-19.75	35.26	18.99	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M)_2437MHz		

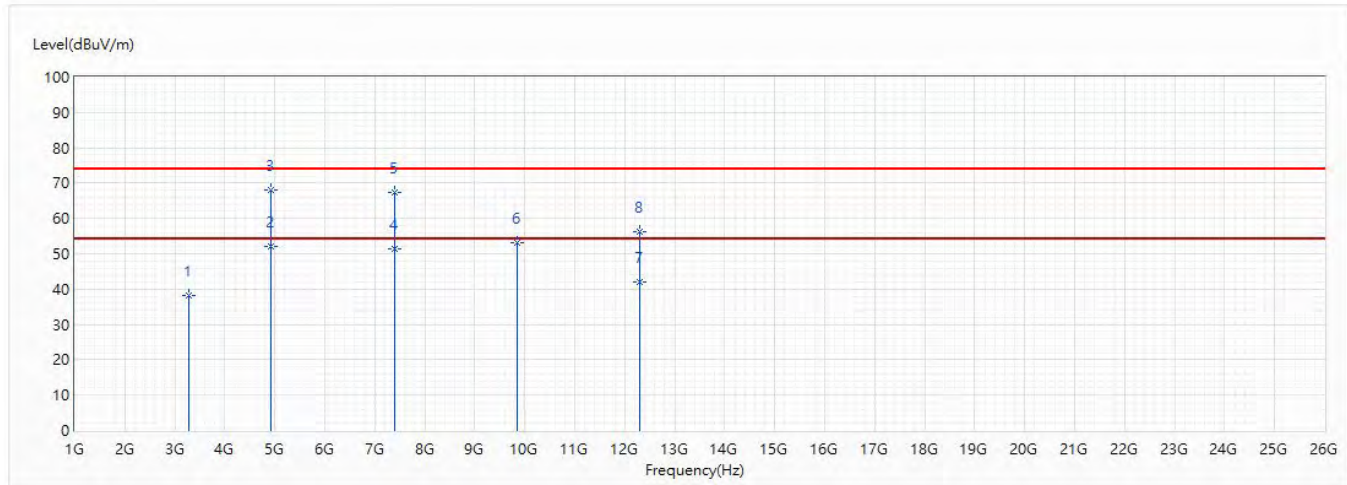


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3249	39.86	74.00	-34.14	43.10	-3.24	PK
2	4874	43.60	54.00	-10.40	41.58	2.02	AV
3	4874	58.87	74.00	-15.13	56.85	2.02	PK
* 4	7311	47.28	54.00	-6.72	35.71	11.57	AV
5	7311	63.34	74.00	-10.66	51.77	11.57	PK
6	9748	50.65	74.00	-23.35	35.02	15.63	PK
7	12185	39.94	54.00	-14.06	20.95	18.99	AV
8	12185	54.12	74.00	-19.88	35.13	18.99	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/23
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M)_2462MHz		

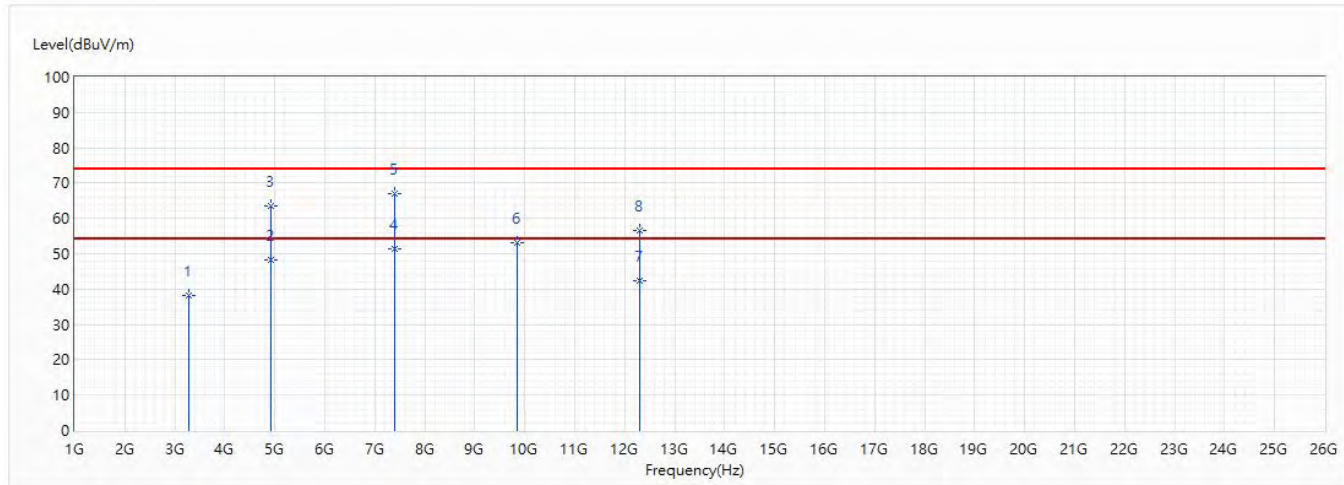


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3282	38.32	74.00	-35.68	41.51	-3.19	PK
* 2	4924	51.98	54.00	-2.02	49.80	2.18	AV
3	4924	67.94	74.00	-6.06	65.76	2.18	PK
4	7386	51.55	54.00	-2.45	39.59	11.96	AV
5	7386	67.19	74.00	-6.81	55.23	11.96	PK
6	9848	53.25	74.00	-20.75	37.42	15.83	PK
7	12310	42.16	54.00	-11.84	23.40	18.76	AV
8	12310	56.11	74.00	-17.89	37.35	18.76	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/23
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M)_2462MHz		

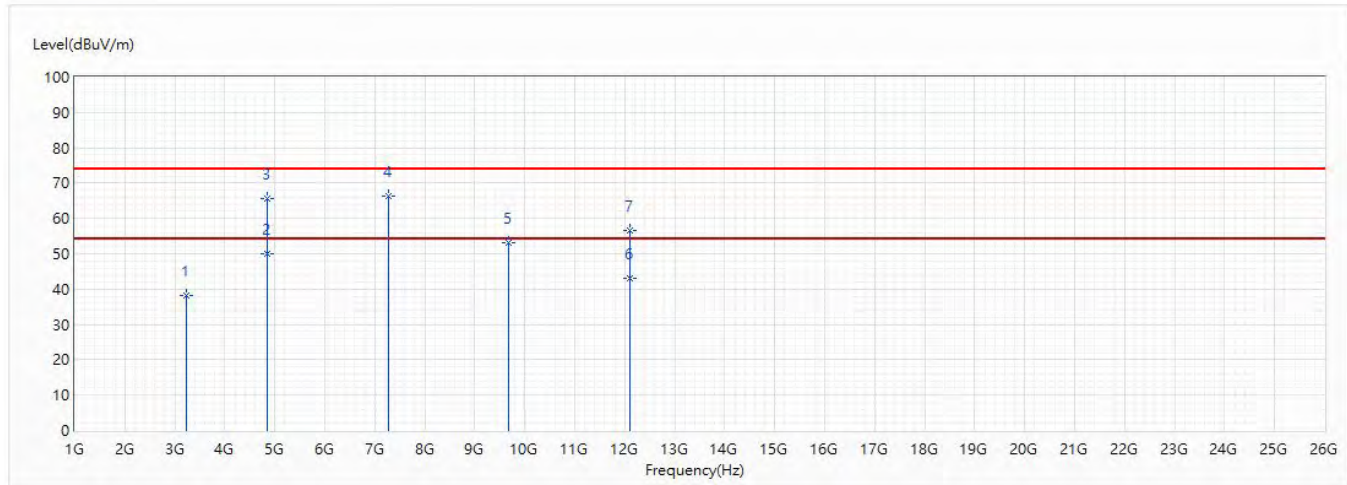


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3282	38.15	74.00	-35.85	41.34	-3.19	PK
2	4924	48.13	54.00	-5.87	45.95	2.18	AV
3	4924	63.56	74.00	-10.44	61.38	2.18	PK
* 4	7386	51.37	54.00	-2.63	39.41	11.96	AV
5	7386	67.10	74.00	-6.90	55.14	11.96	PK
6	9848	53.10	74.00	-20.90	37.27	15.83	PK
7	12310	42.20	54.00	-11.80	23.44	18.76	AV
8	12310	56.59	74.00	-17.41	37.83	18.76	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M)_2422MHz		

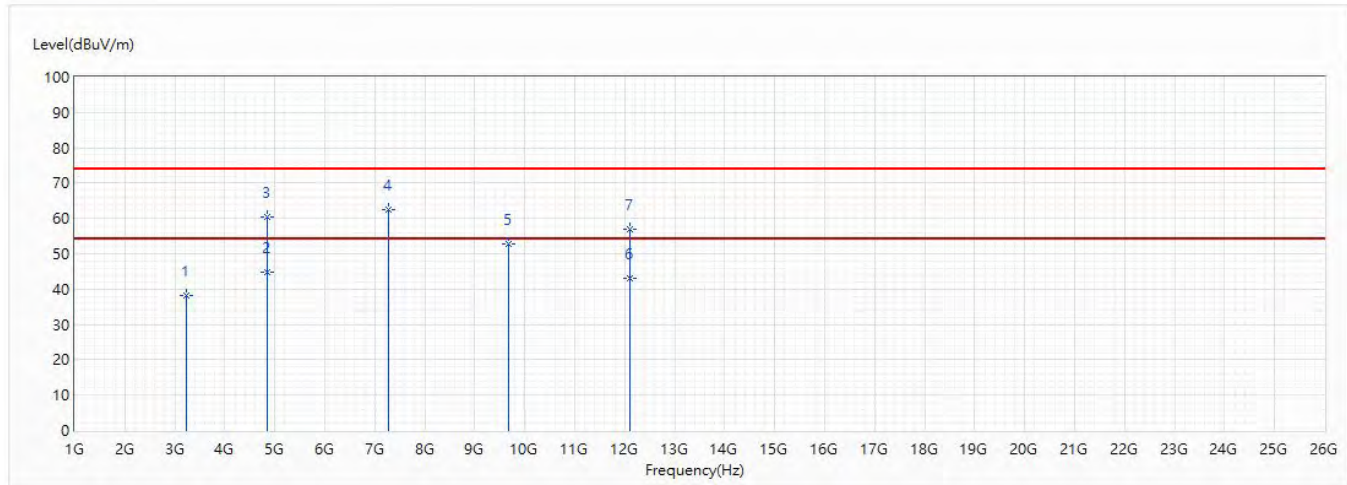


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3229	38.19	74.00	-35.81	41.45	-3.26	PK
* 2	4844	49.98	54.00	-4.02	48.05	1.93	AV
3	4844	65.55	74.00	-8.45	63.62	1.93	PK
4	7266	66.41	74.00	-7.59	55.09	11.32	PK
5	9688	53.17	74.00	-20.83	37.67	15.50	PK
6	12110	43.04	54.00	-10.96	23.90	19.14	AV
7	12110	56.73	74.00	-17.27	37.59	19.14	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M)_2422MHz		

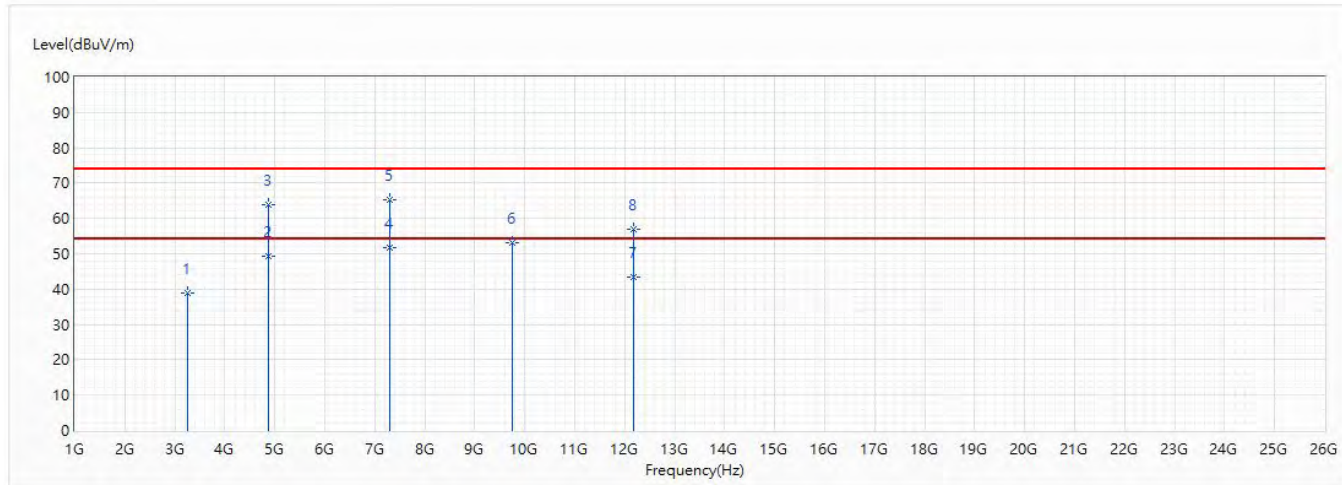


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3229	38.05	74.00	-35.95	41.31	-3.26	PK
* 2	4844	44.72	54.00	-9.28	42.79	1.93	AV
3	4844	60.32	74.00	-13.68	58.39	1.93	PK
4	7266	62.66	74.00	-11.34	51.34	11.32	PK
5	9688	52.69	74.00	-21.31	37.19	15.50	PK
6	12110	43.01	54.00	-10.99	23.87	19.14	AV
7	12110	56.79	74.00	-17.21	37.65	19.14	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M) 2437MHz		

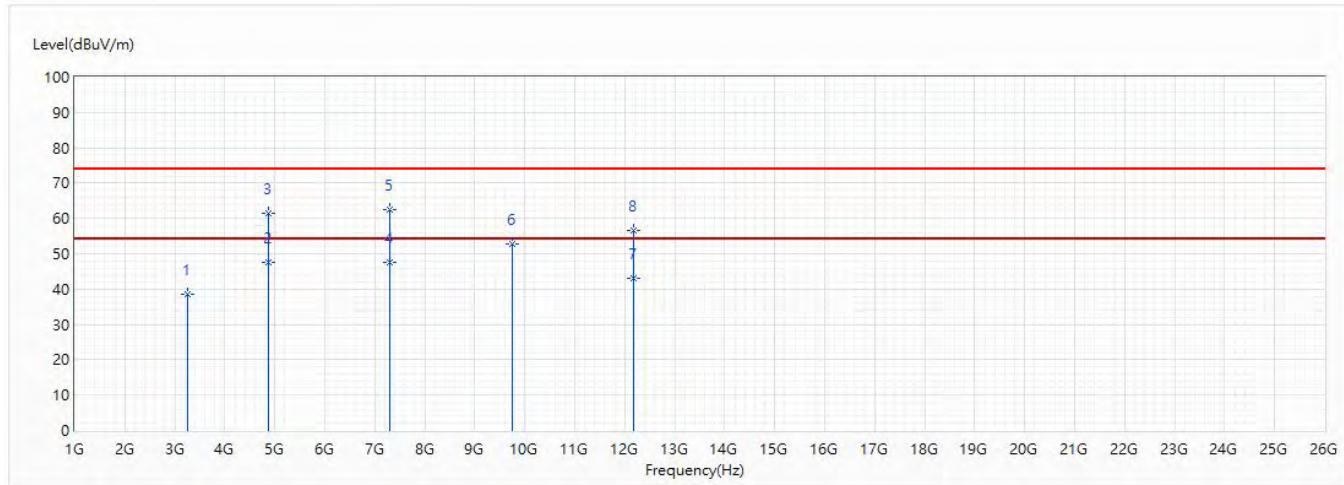


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3249	38.86	74.00	-35.14	42.10	-3.24	PK
2	4874	49.29	54.00	-4.71	47.27	2.02	AV
3	4874	64.01	74.00	-9.99	61.99	2.02	PK
* 4	7311	51.81	54.00	-2.19	40.24	11.57	AV
5	7311	65.18	74.00	-8.82	53.61	11.57	PK
6	9748	53.21	74.00	-20.79	37.58	15.63	PK
7	12185	43.25	54.00	-10.75	24.26	18.99	AV
8	12185	57.09	74.00	-16.91	38.10	18.99	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M) 2437MHz		

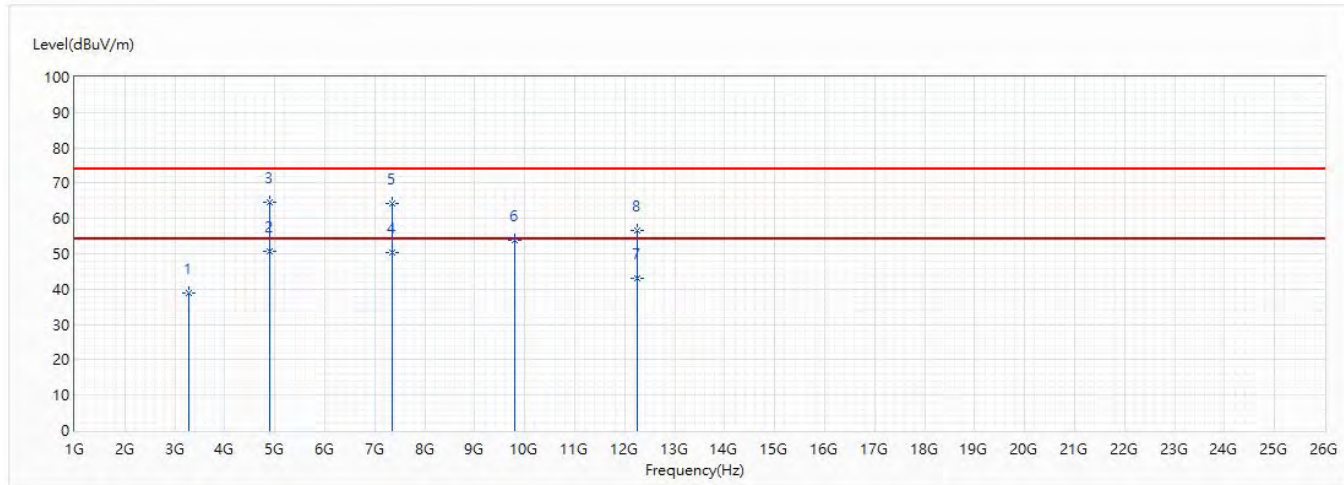


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3249	38.49	74.00	-35.51	41.73	-3.24	PK
2	4874	47.57	54.00	-6.43	45.55	2.02	AV
3	4874	61.51	74.00	-12.49	59.49	2.02	PK
* 4	7311	47.60	54.00	-6.40	36.03	11.57	AV
5	7311	62.33	74.00	-11.67	50.76	11.57	PK
6	9748	52.78	74.00	-21.22	37.15	15.63	PK
7	12185	43.17	54.00	-10.83	24.18	18.99	AV
8	12185	56.70	74.00	-17.30	37.71	18.99	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M) 2452MHz		

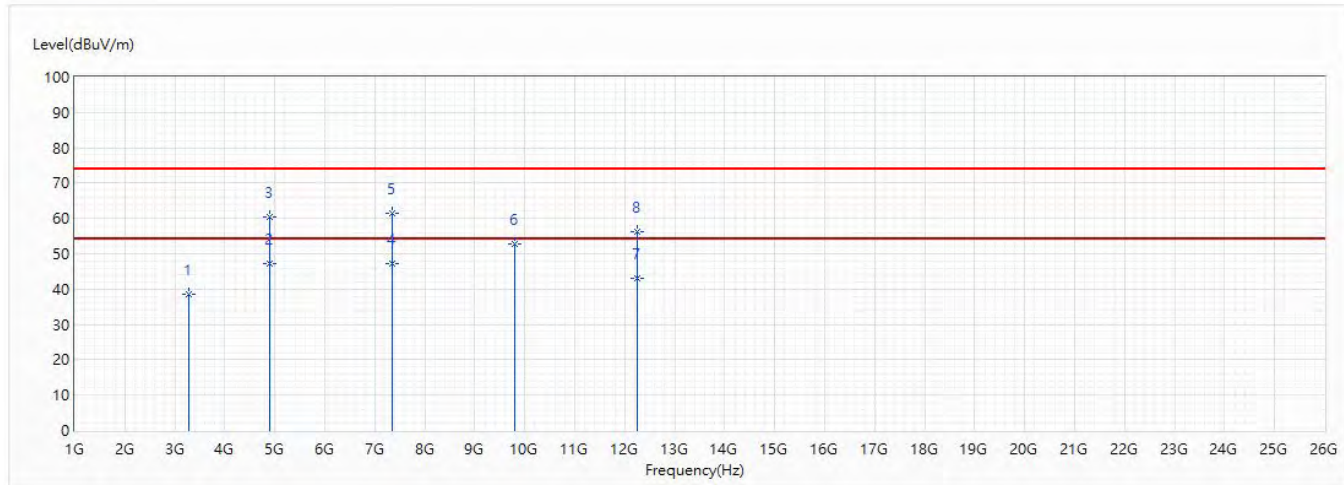


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3269	38.90	74.00	-35.10	42.12	-3.22	PK
* 2	4904	50.56	54.00	-3.44	48.44	2.12	AV
3	4904	64.70	74.00	-9.30	62.58	2.12	PK
4	7356	50.19	54.00	-3.81	38.38	11.81	AV
5	7356	64.33	74.00	-9.67	52.52	11.81	PK
6	9808	53.85	74.00	-20.15	38.10	15.75	PK
7	12260	42.93	54.00	-11.07	24.08	18.85	AV
8	12260	56.47	74.00	-17.53	37.62	18.85	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M)_2452MHz		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3269	38.60	74.00	-35.40	41.82	-3.22	PK
* 2	4904	47.26	54.00	-6.74	45.14	2.12	AV
3	4904	60.53	74.00	-13.47	58.41	2.12	PK
4	7356	47.07	54.00	-6.93	35.26	11.81	AV
5	7356	61.35	74.00	-12.65	49.54	11.81	PK
6	9808	52.80	74.00	-21.20	37.05	15.75	PK
7	12260	43.05	54.00	-10.95	24.20	18.85	AV
8	12260	56.36	74.00	-17.64	37.51	18.85	PK

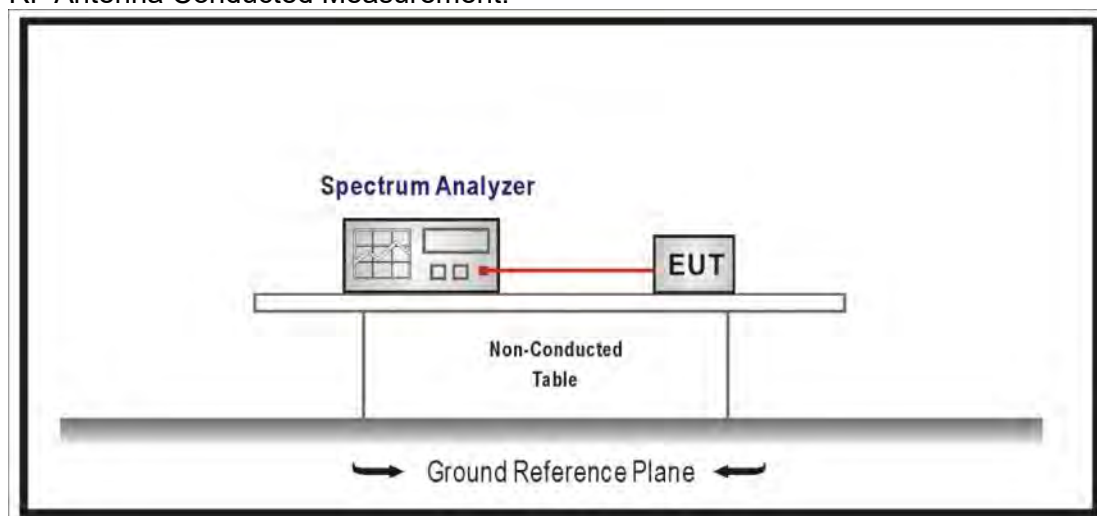
Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

5. RF antenna conducted test

5.1. Test Setup

RF Antenna Conducted Measurement:



5.2. 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)).

5.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.4. Test Specification

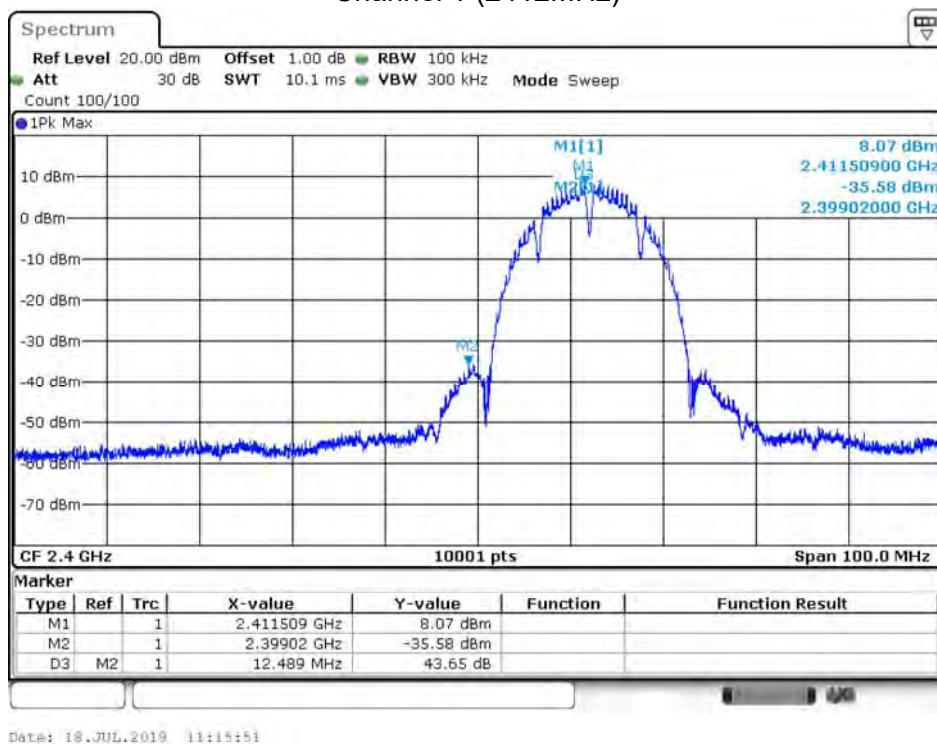
According to FCC Part 15 Subpart C Paragraph 15.247: 2018

5.5. Test Result

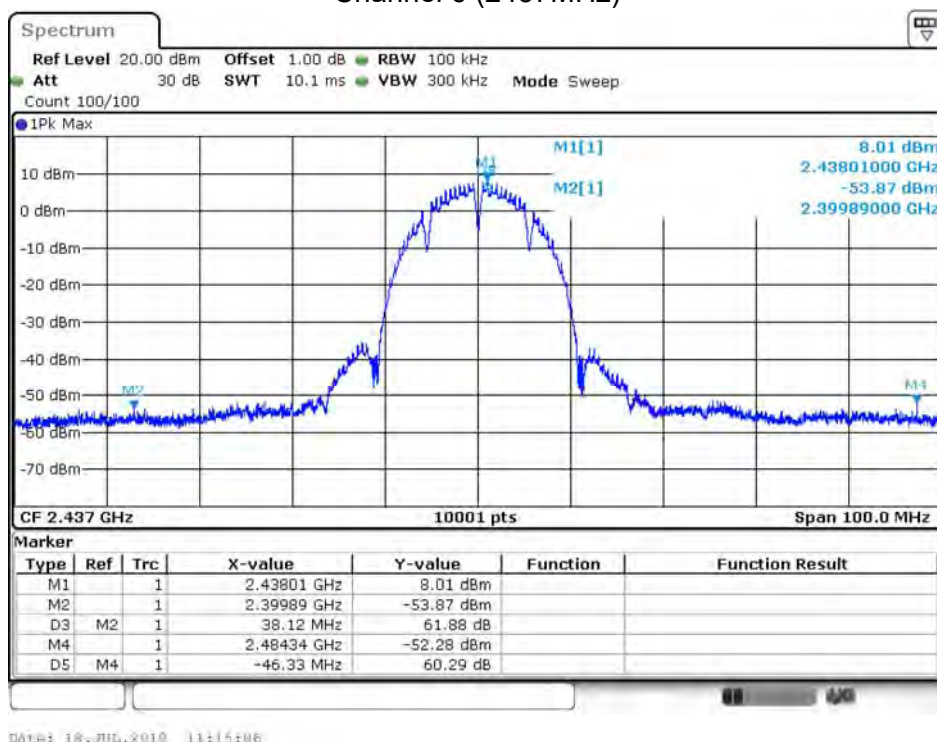
Product	N150 Wi-Fi Nano USB Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2019/07/18	Test Site	SR10-H

IEEE 802.11b (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	31.98	≥ 20	Pass
6	2437	33.53	≥ 20	Pass
11	2462	37.31	≥ 20	Pass

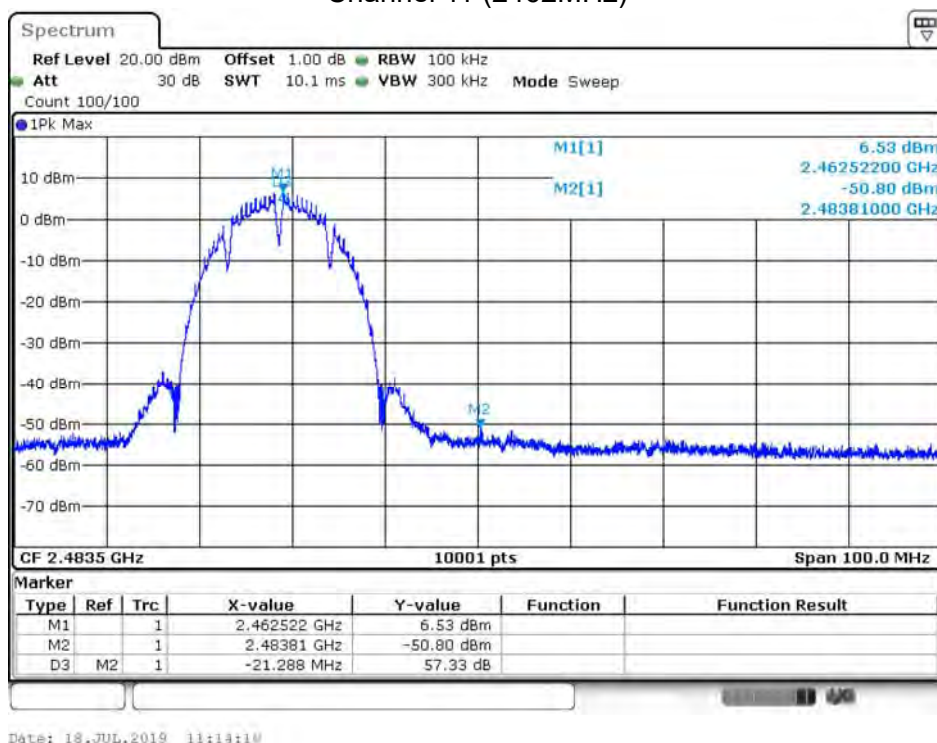
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

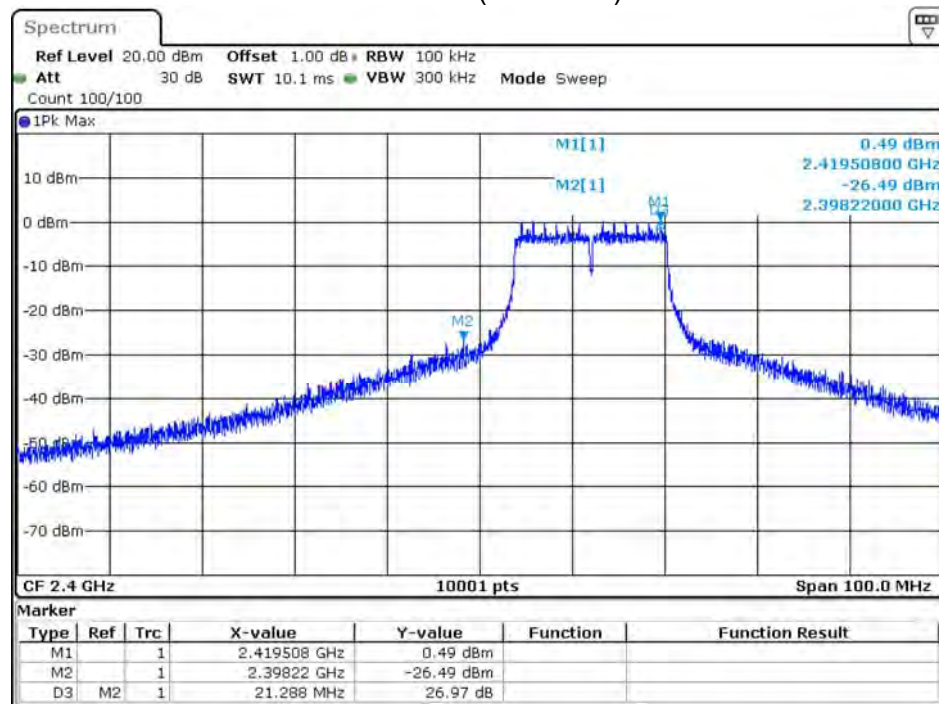


Product	N150 Wi-Fi Nano USB Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2019/05/23	Test Site	SR10-H

IEEE 802.11g (ANT 0)

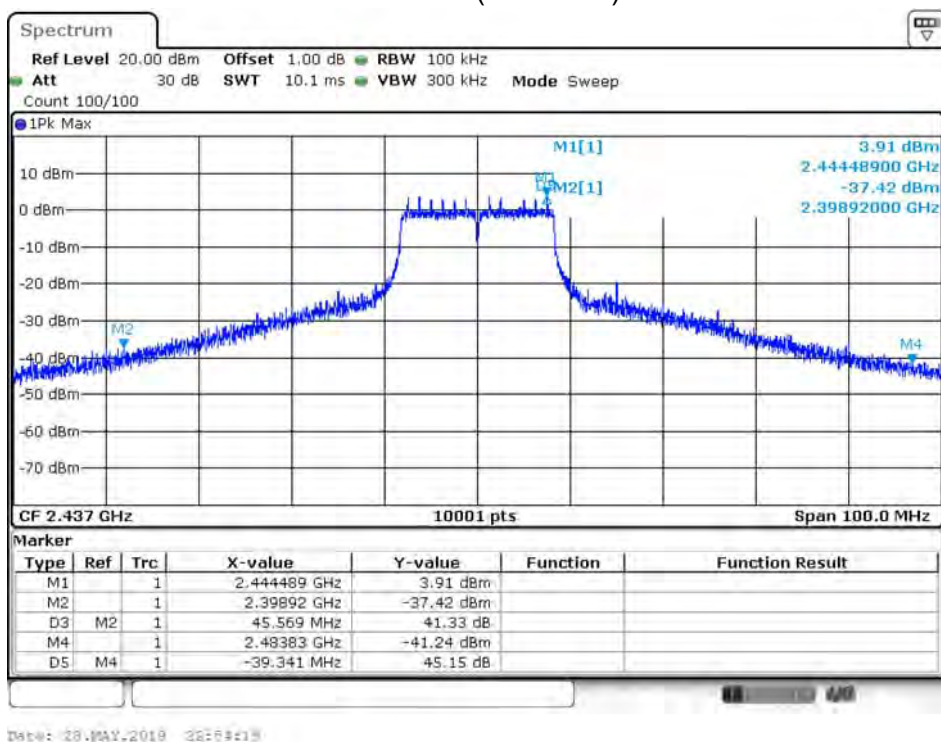
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	26.97	≥ 20	Pass
6	2437	35.78	≥ 20	Pass
11	2462	31.33	≥ 20	Pass

Channel 1 (2412MHz)

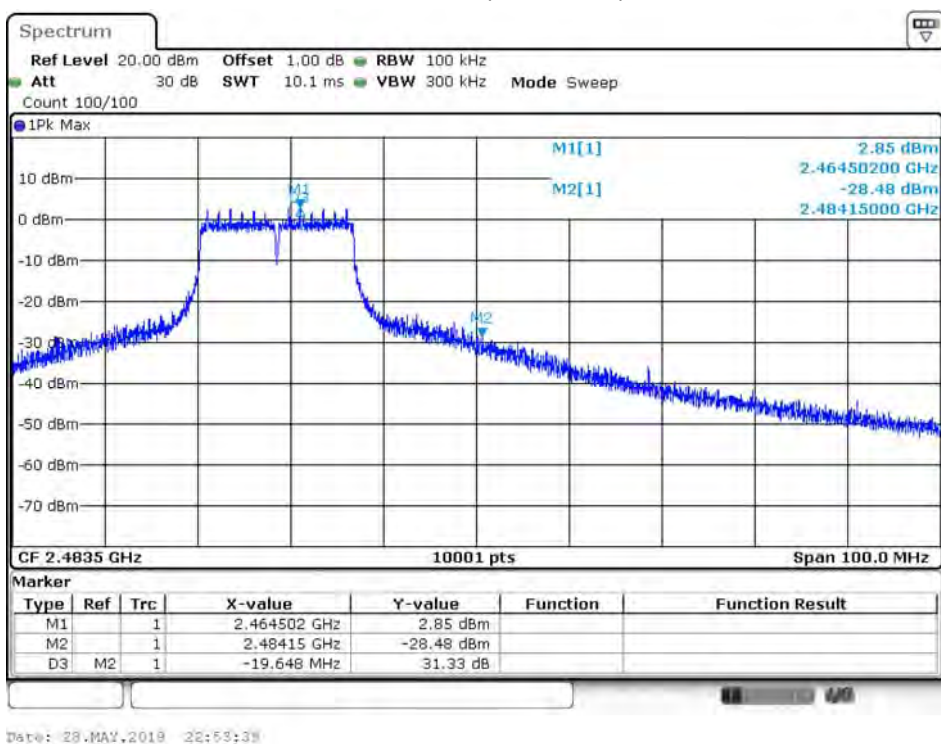


Date: 23.MAY.2019 13:42:39

Channel 6 (2437MHz)



Channel 11 (2462MHz)

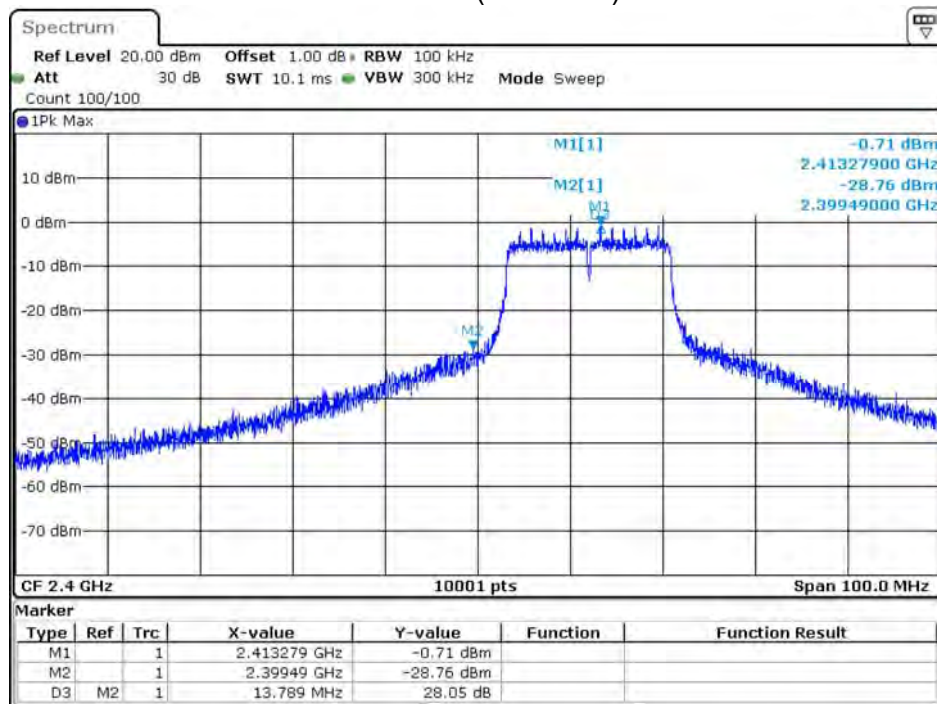


Product	N150 Wi-Fi Nano USB Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2019/05/23	Test Site	SR10-H

IEEE 802.11n (20M) (ANT 0)

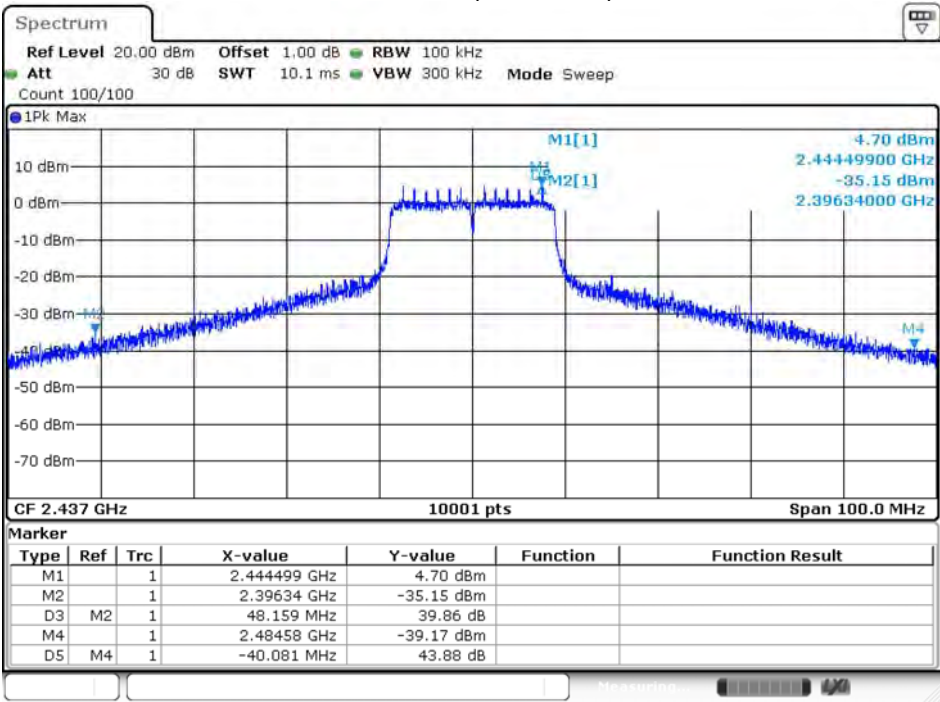
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	28.05	≥ 20	Pass
6	2437	37.84	≥ 20	Pass
11	2462	30.90	≥ 20	Pass

Channel 1 (2412MHz)



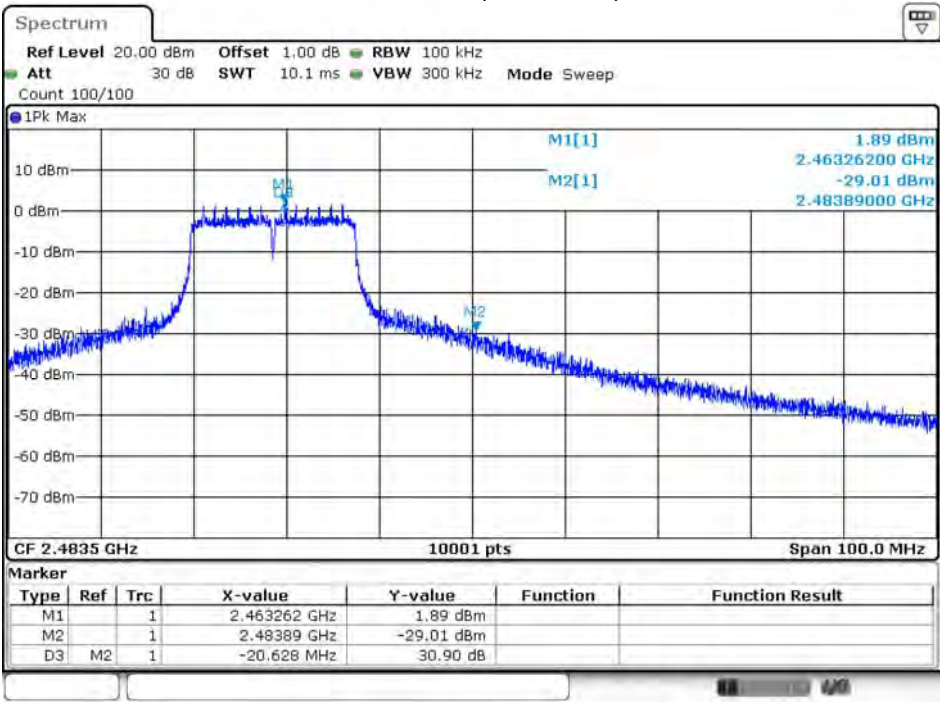
Date: 23.MAY.2019 13:56:41

Channel 6 (2437MHz)



Date: 28.MAY.2019 22:51:18

Channel 11 (2462MHz)



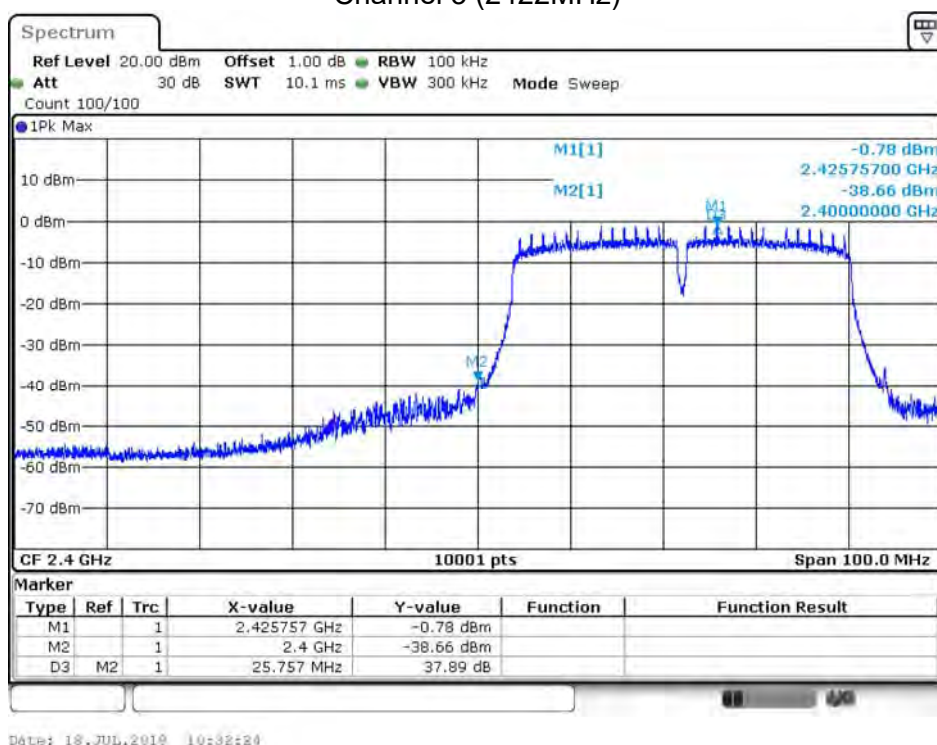
Date: 28.MAY.2019 22:52:34

Product	N150 Wi-Fi Nano USB Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2019/07/18	Test Site	SR10-H

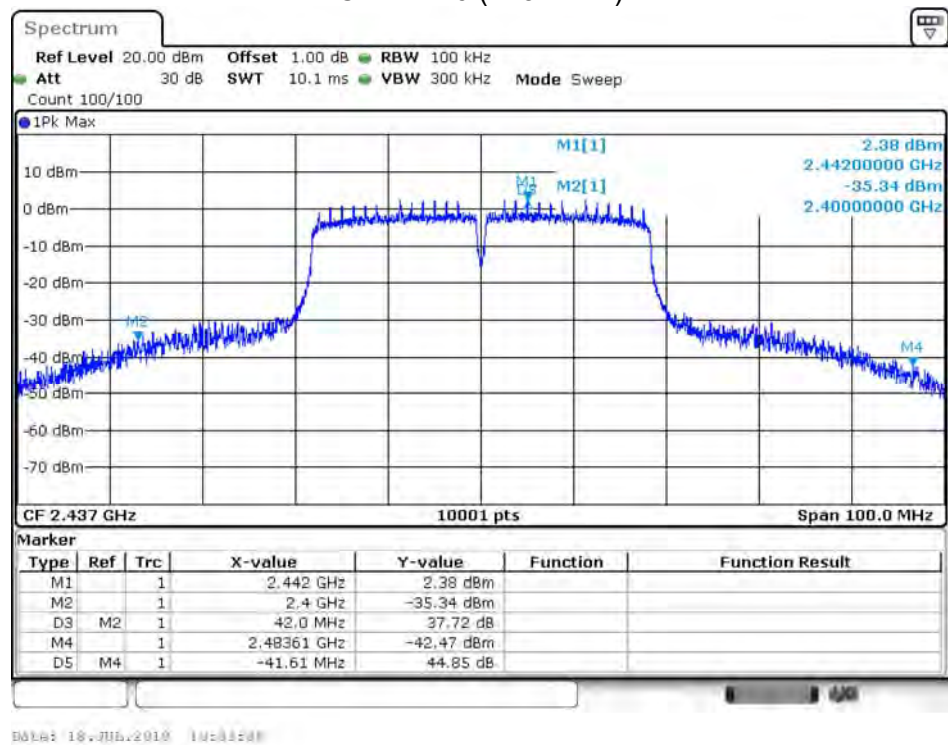
IEEE 802.11n (40M) (ANT 0)

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	30.47	≥ 20	Pass
6	2437	31.51	≥ 20	Pass
9	2452	32.33	≥ 20	Pass

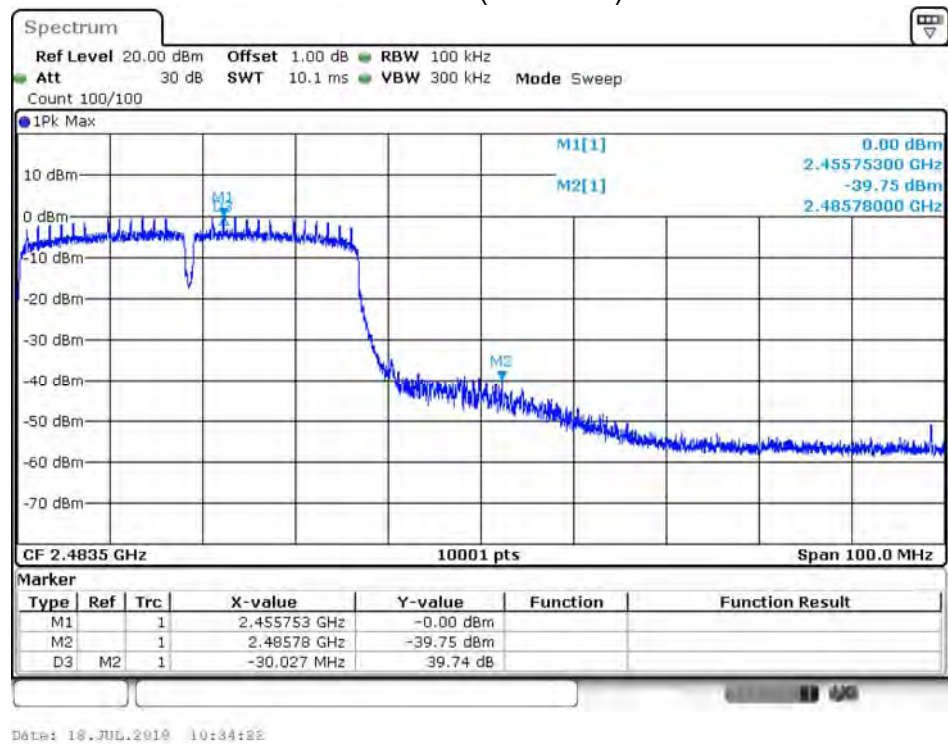
Channel 3 (2422MHz)



Channel 6 (2437MHz)

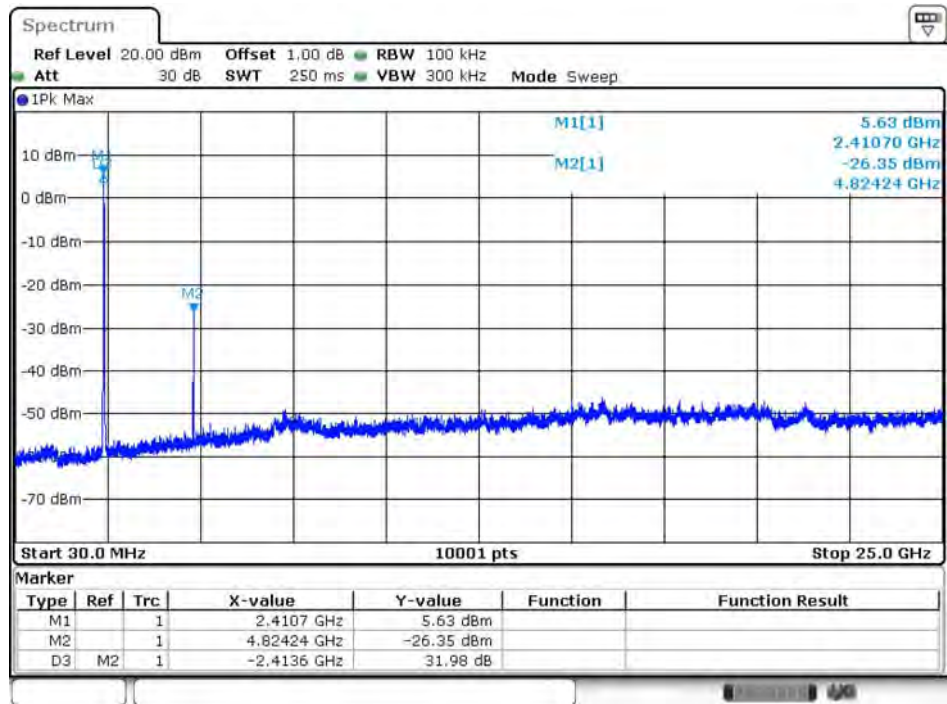


Channel 9 (2452MHz)



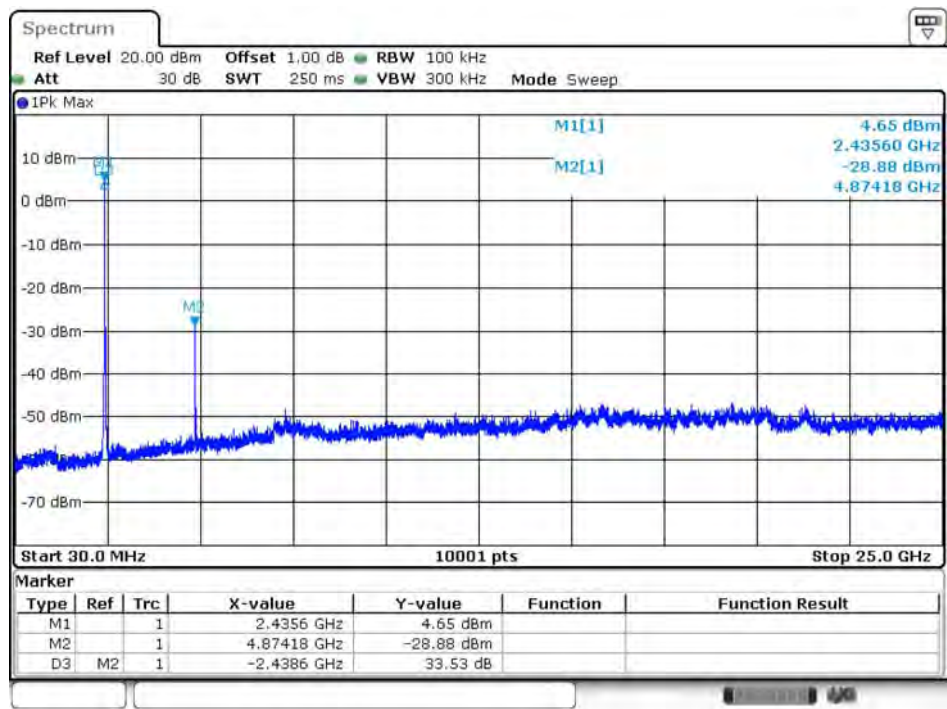
Product	N150 Wi-Fi Nano USB Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2019/06/13	Test Site	SR10-H

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



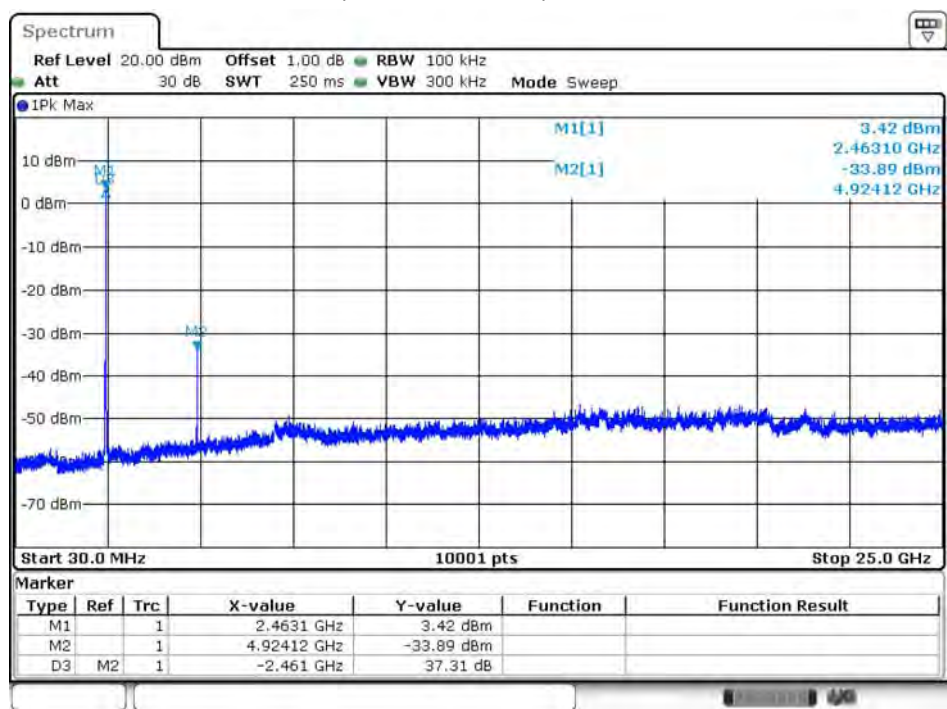
Date: 13 JUN 2019 09:27:00

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



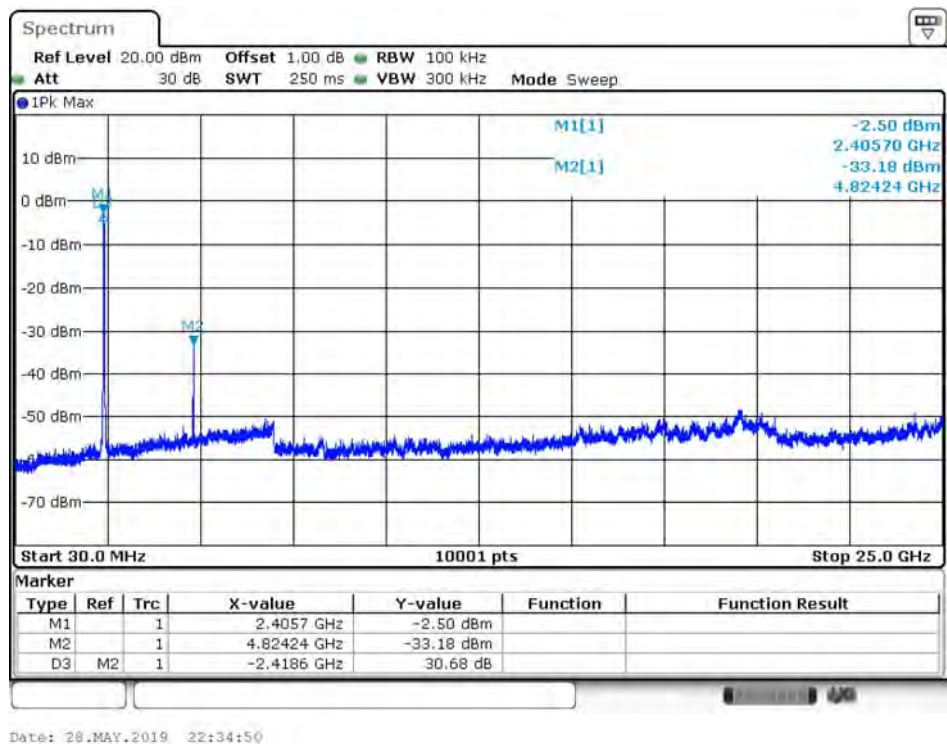
Date: 13.JUN.2019 09:25:59

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

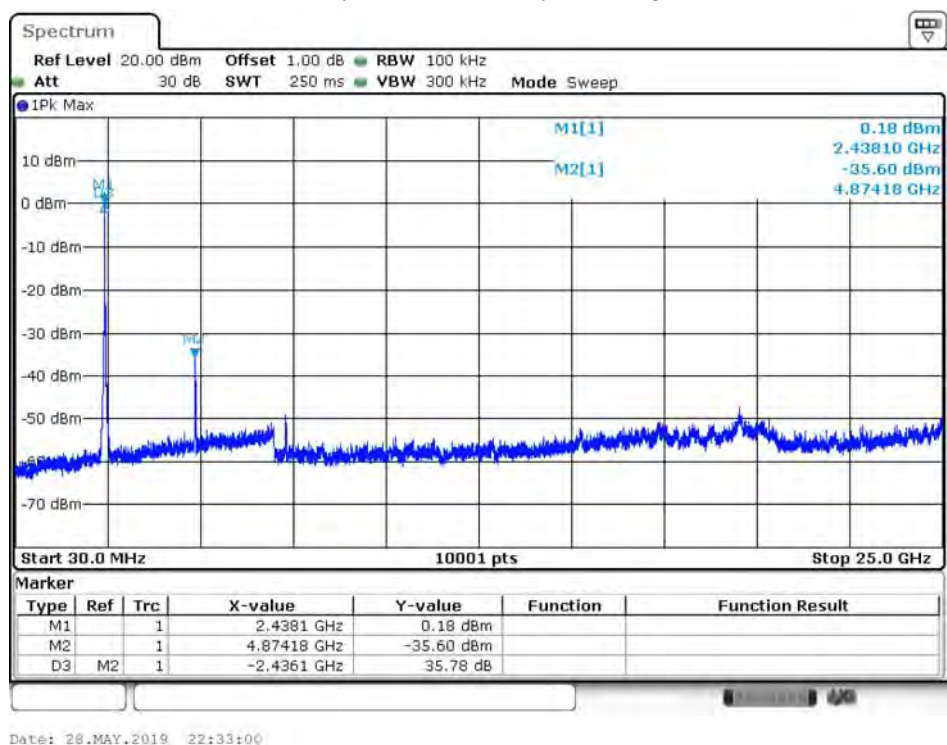


Date: 13.JUN.2019 09:30:20

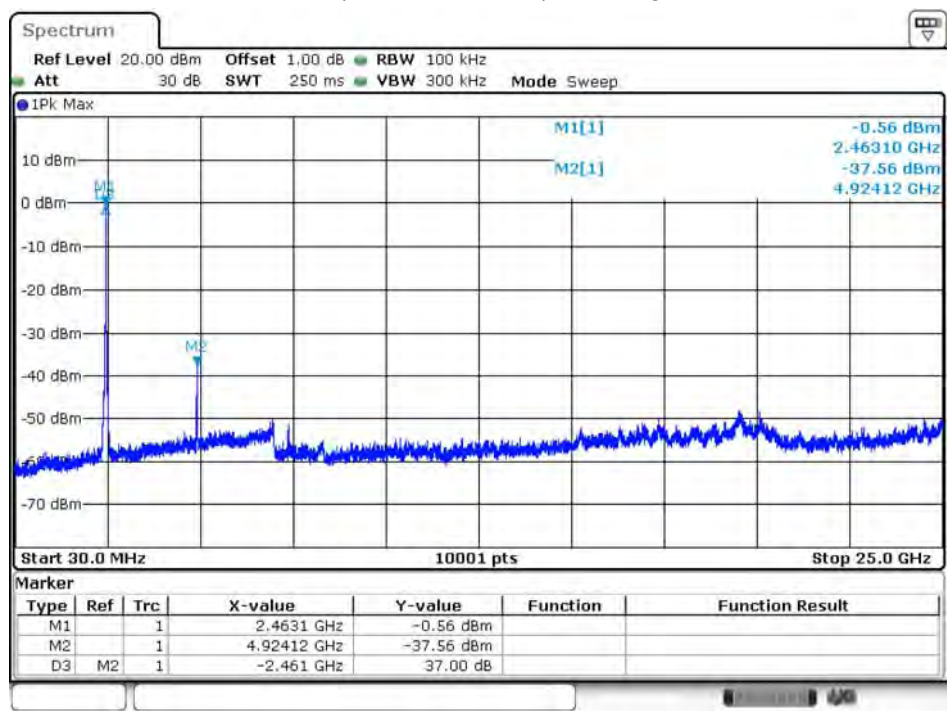
2412MHz (30MHz-25GHz)-802.11g-ANT 0



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

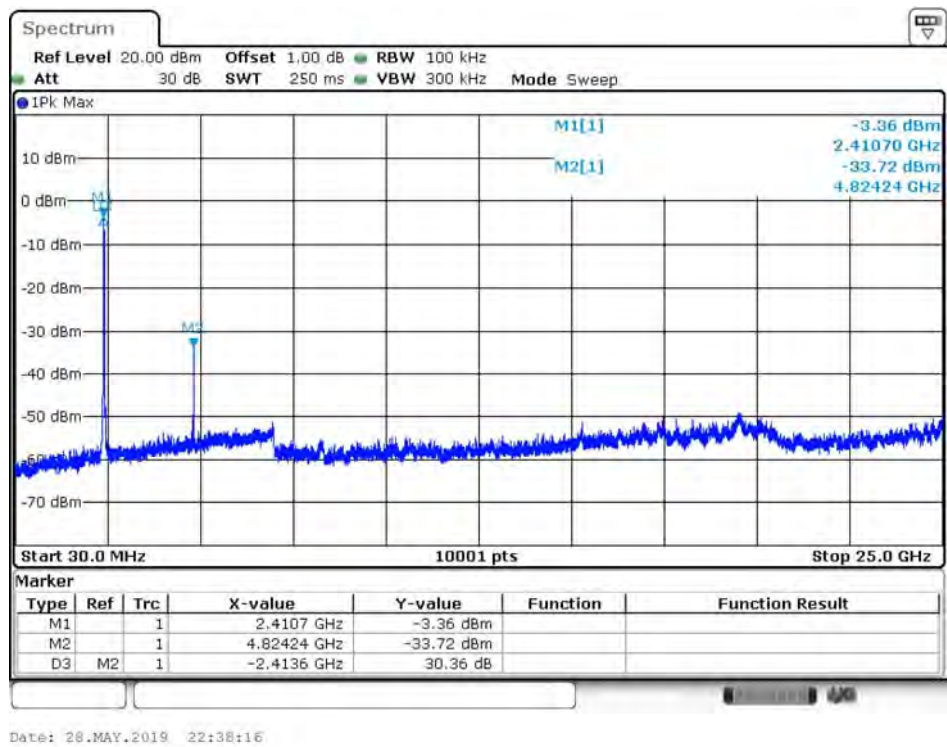


2462MHz (30MHz-25GHz)-802.11g-ANT 0

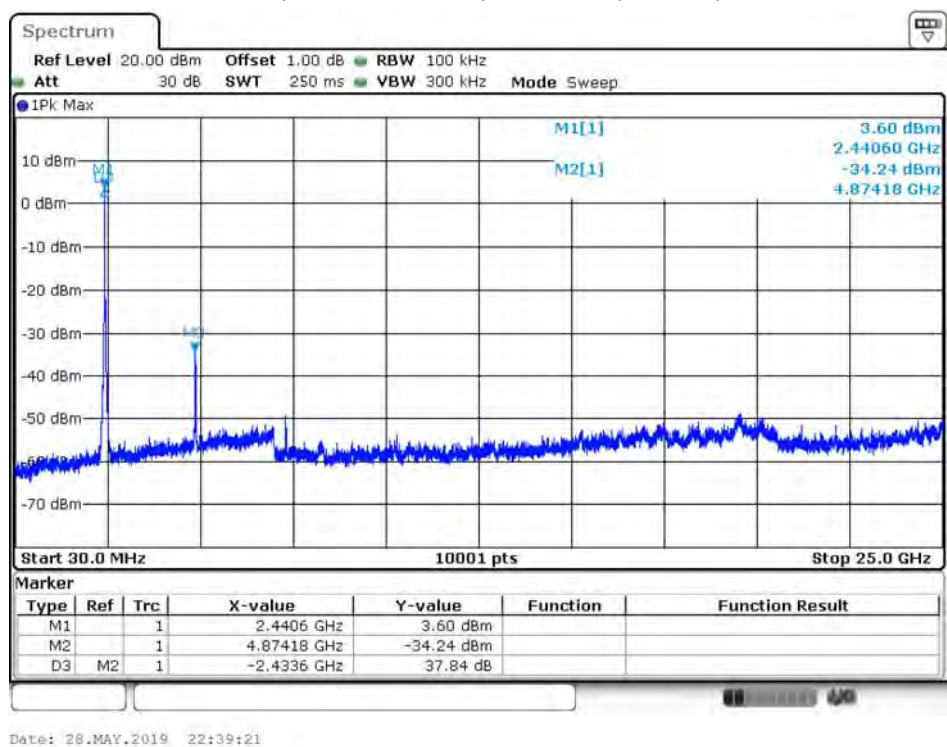


Date: 28.MAY.2019 22:31:57

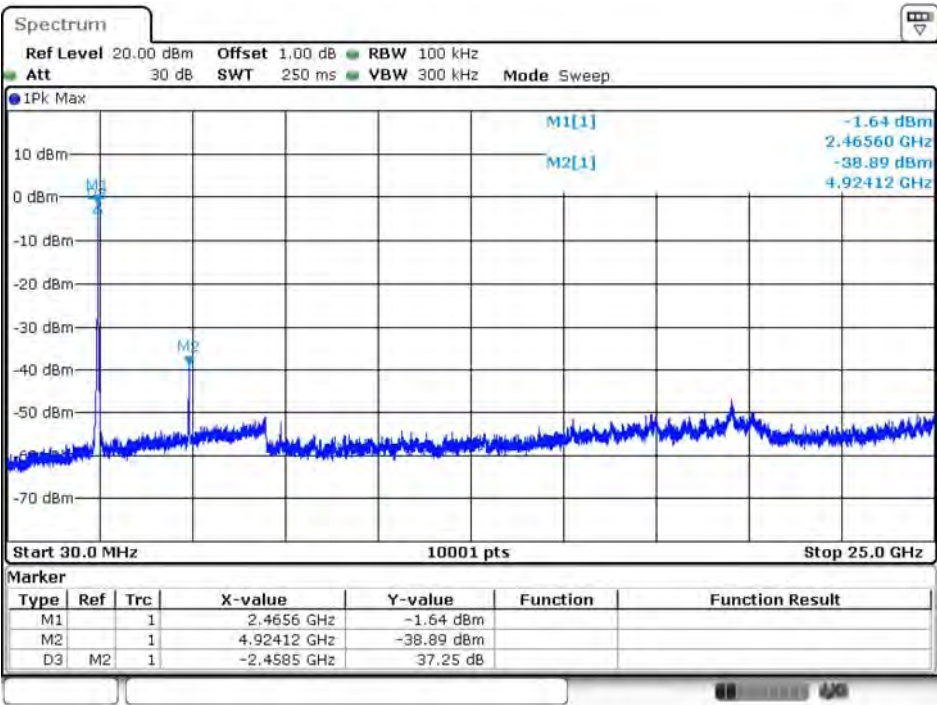
2412MHz (30MHz-25GHz)-802.11n (20MHz)-ANT 0



2437MHz (30MHz-25GHz)-802.11n (20MHz)-ANT 0

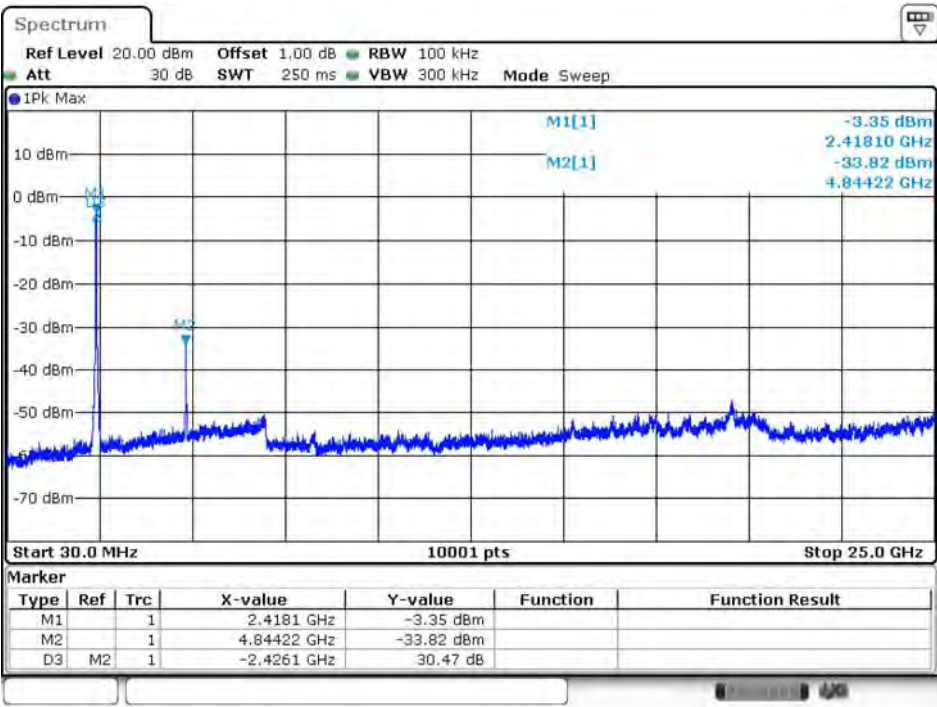


2462MHz (30MHz-25GHz)-802.11n (20MHz)-ANT 0



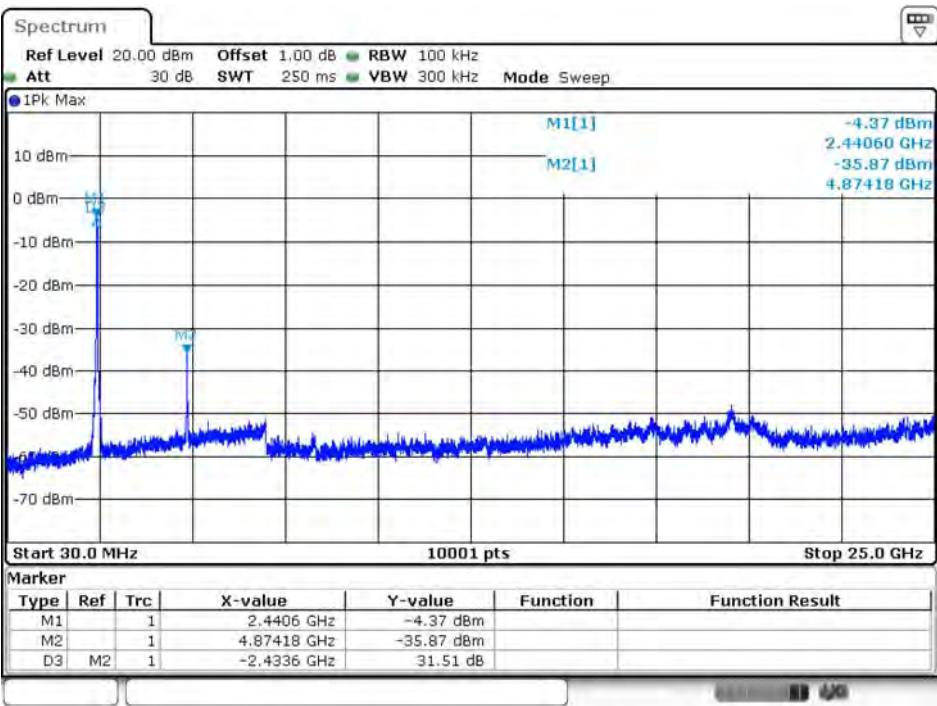
Date: 28.MAY.2019 22:40:05

2422MHz (30MHz-25GHz)-802.11n (40MHz)-ANT 0



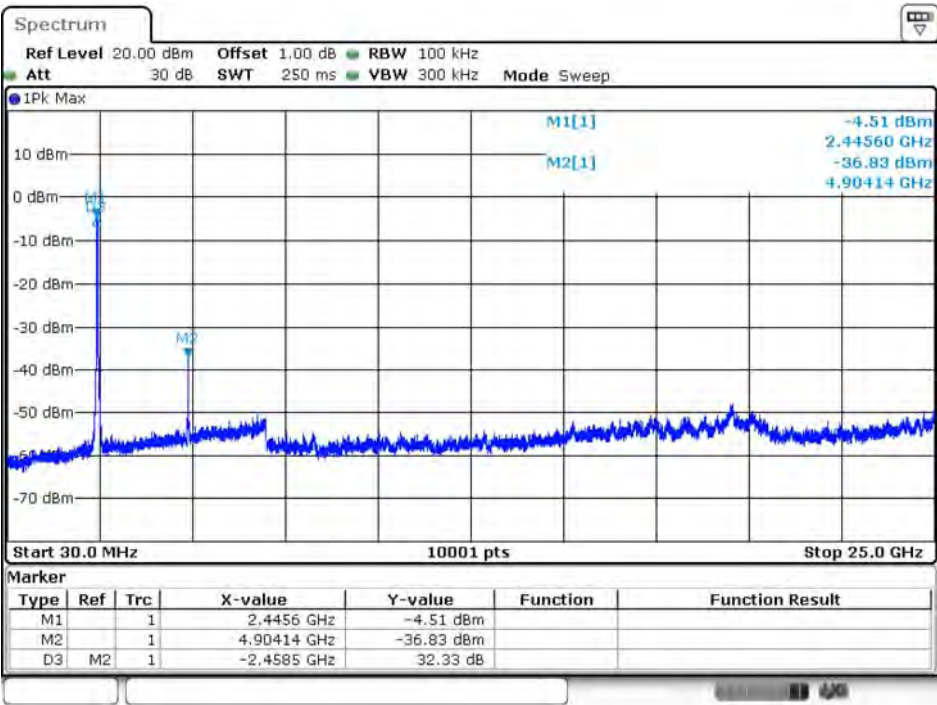
Date: 28.MAY.2019 22:42:30

2437MHz (30MHz-25GHz)-802.11n (40MHz)-ANT 0



Date: 28.MAY.2019 22:43:14

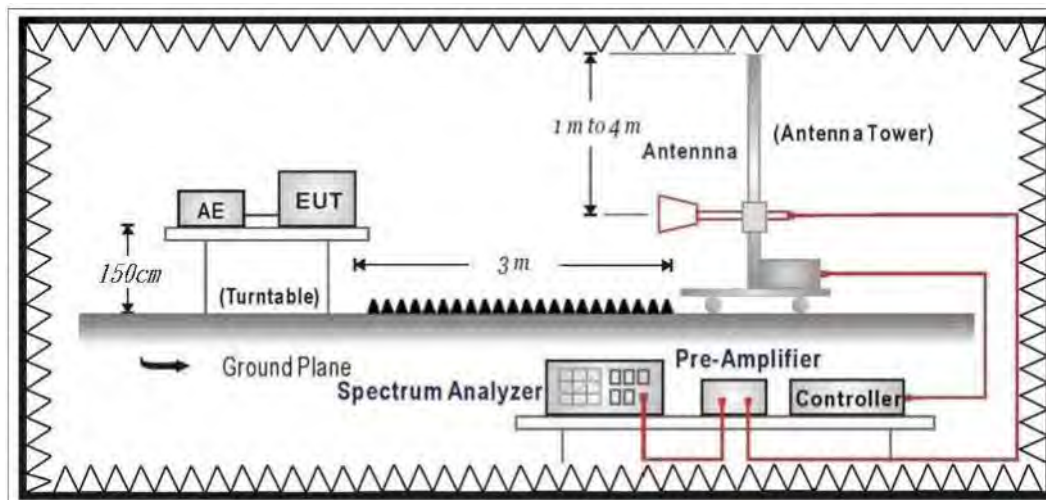
2452MHz (30MHz-25GHz)-802.11n (40MHz)-ANT 0



Date: 28.MAY.2019 22:44:04

6. Radiated Emission Band Edge

6.1. Test Setup



6.2. 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.

6.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074 D01 v05r02 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.

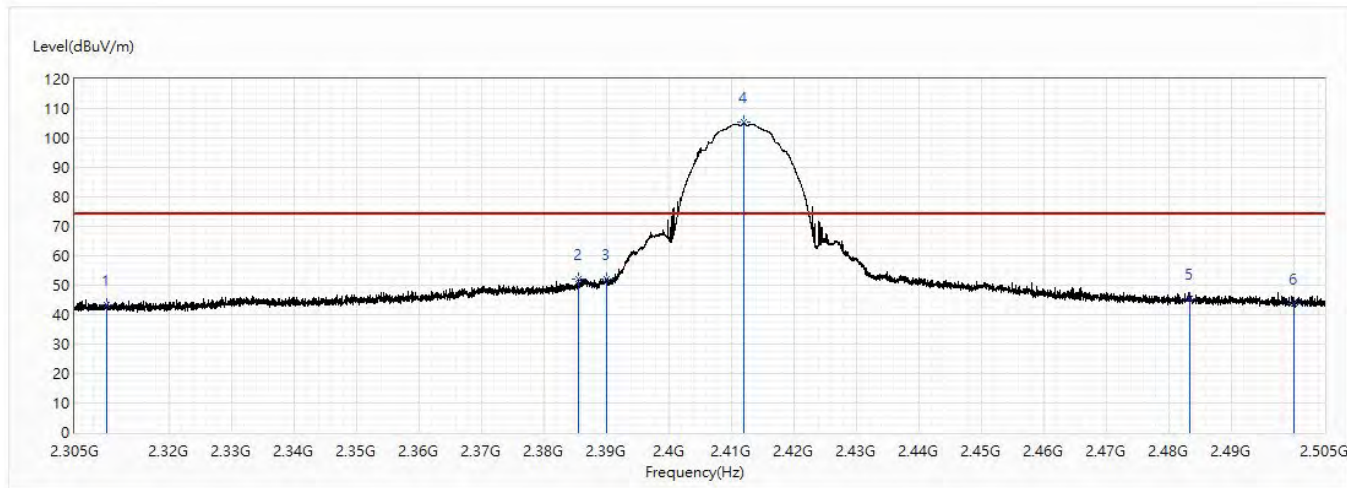
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2018

6.5. Test Result

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11b_2412MHz		

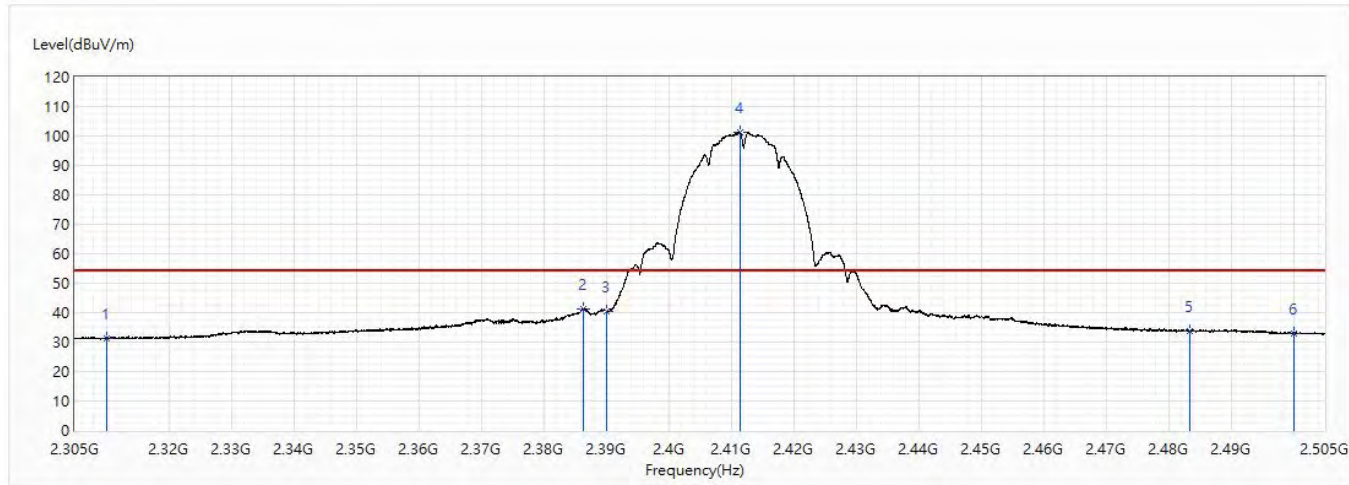


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	43.39	74.00	-30.61	29.04	14.35	PK
2	2385.5	52.05	74.00	-21.95	37.18	14.87	PK
3	2390	51.90	74.00	-22.10	37.01	14.89	PK
! 4	2412.05	105.35	74.00	31.35	90.30	15.05	PK
5	2483.5	45.44	74.00	-28.56	29.90	15.54	PK
6	2500	43.59	74.00	-30.41	27.94	15.65	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11b_2412MHz		

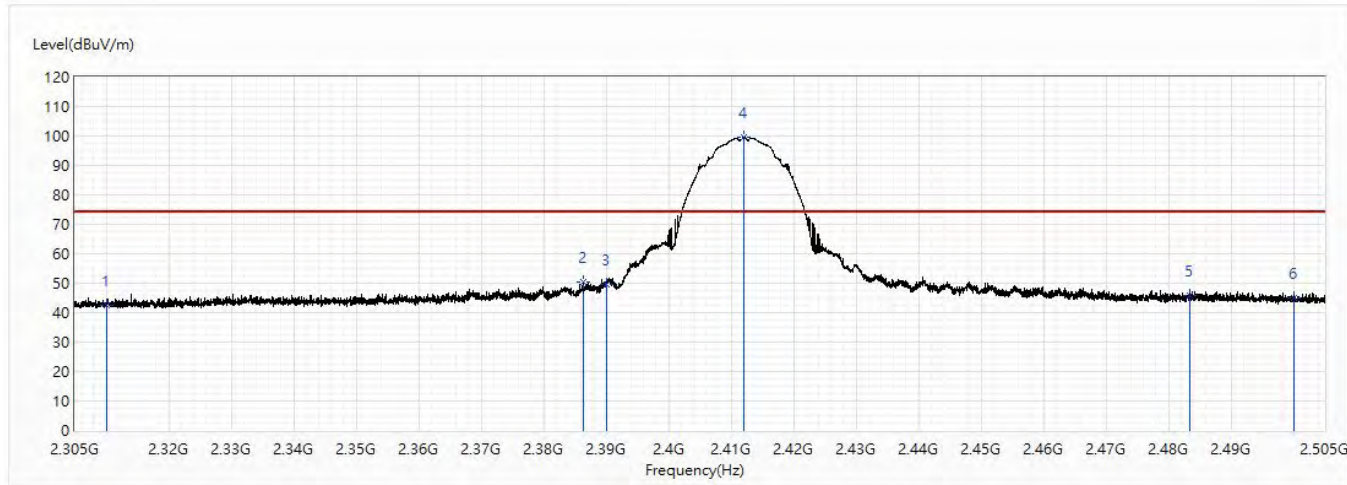


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	31.13	54.00	-22.87	16.78	14.35	AV
2	2386.325	41.31	54.00	-12.69	26.44	14.87	AV
3	2390	40.59	54.00	-13.41	25.70	14.89	AV
! 4	2411.375	101.40	54.00	47.40	86.36	15.04	AV
5	2483.5	33.73	54.00	-20.27	18.19	15.54	AV
6	2500	33.08	54.00	-20.92	17.43	15.65	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11b_2412MHz		

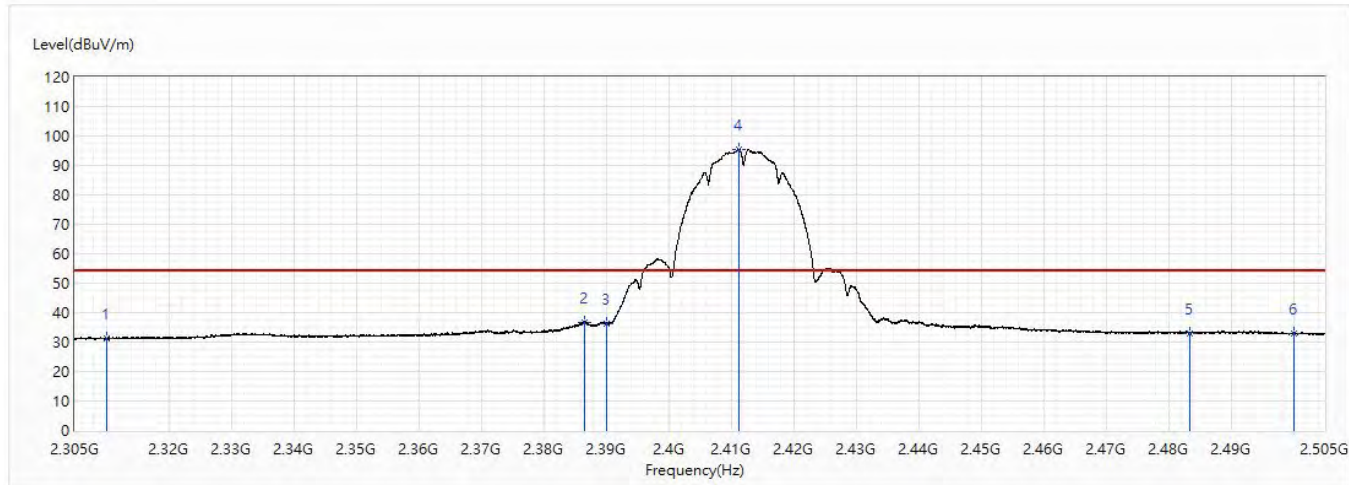


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	42.48	74.00	-31.52	28.13	14.35	PK
2	2386.4	50.35	74.00	-23.65	35.48	14.87	PK
3	2390	49.79	74.00	-24.21	34.90	14.89	PK
! 4	2412.125	99.65	74.00	25.65	84.60	15.05	PK
5	2483.5	45.76	74.00	-28.24	30.22	15.54	PK
6	2500	44.96	74.00	-29.04	29.31	15.65	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11b_2412MHz		

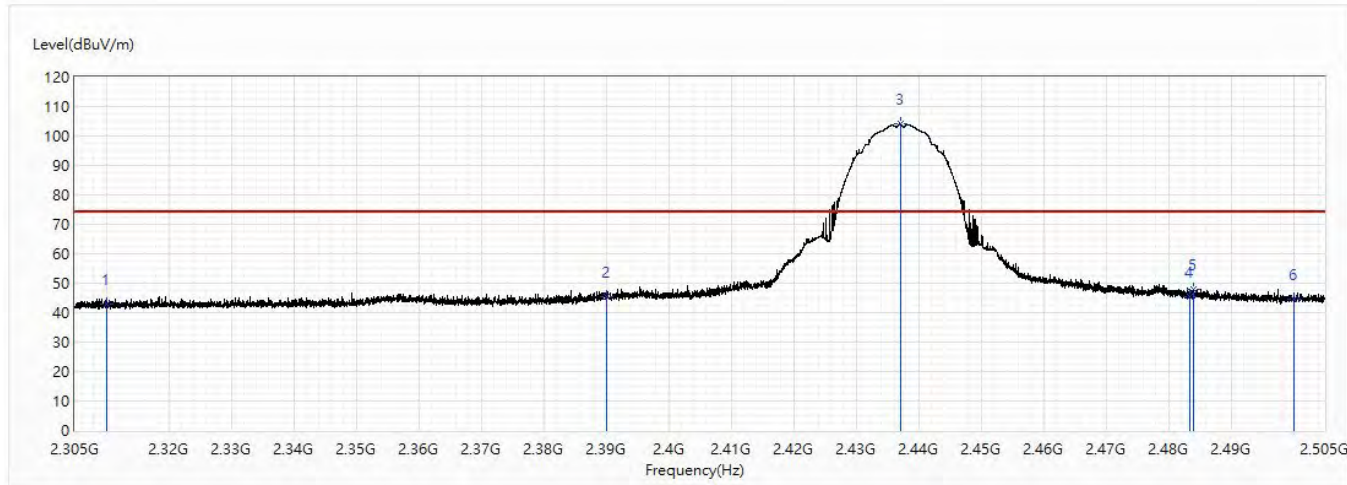


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	31.14	54.00	-22.86	16.79	14.35	AV
2	2386.575	36.87	54.00	-17.13	22.00	14.87	AV
3	2390	36.40	54.00	-17.60	21.51	14.89	AV
! 4	2411.275	95.46	54.00	41.46	80.42	15.04	AV
5	2483.5	32.95	54.00	-21.05	17.41	15.54	AV
6	2500	33.00	54.00	-21.00	17.35	15.65	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11b_2437MHz		

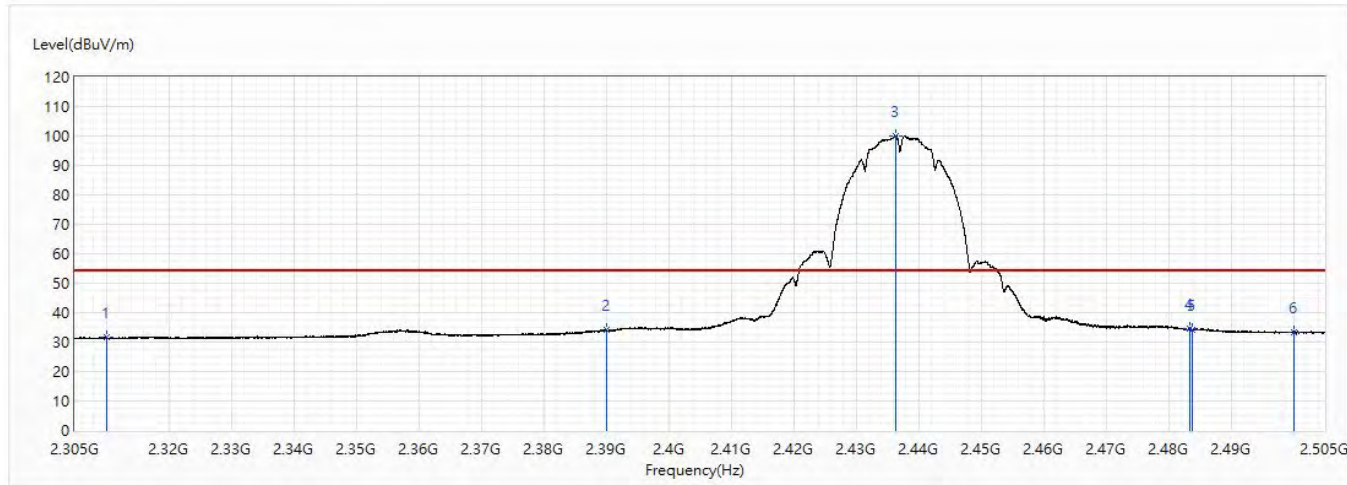


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	42.94	74.00	-31.06	28.59	14.35	PK
2	2390	45.54	74.00	-28.46	30.65	14.89	PK
! 3	2437.15	104.11	74.00	30.11	88.89	15.22	PK
4	2483.5	45.34	74.00	-28.66	29.80	15.54	PK
5	2484.025	48.07	74.00	-25.93	32.53	15.54	PK
6	2500	44.44	74.00	-29.56	28.79	15.65	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11b_2437MHz		

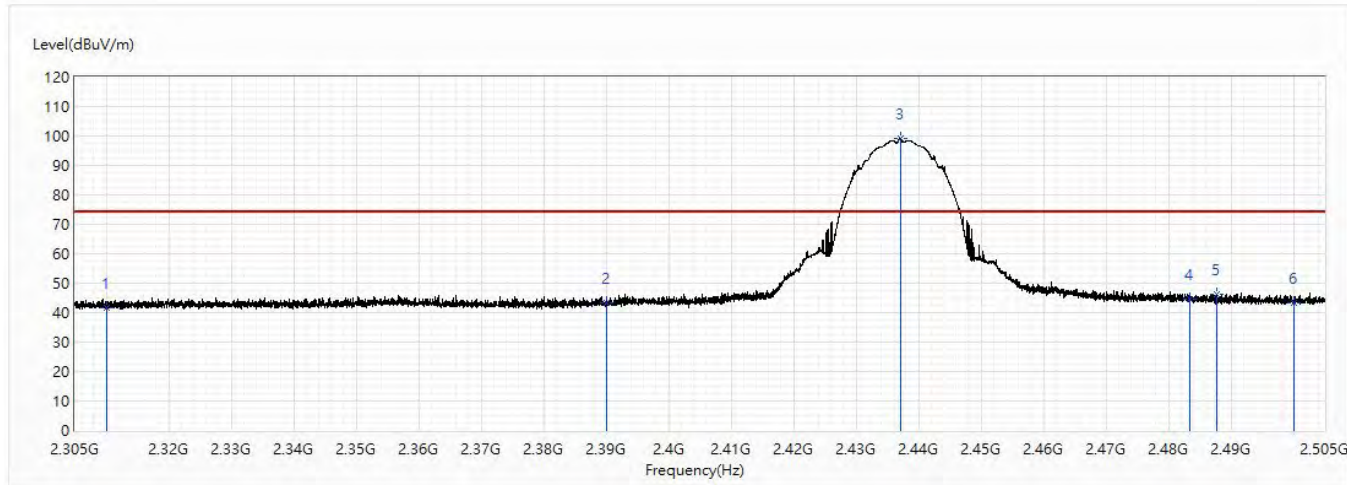


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	31.49	54.00	-22.51	17.14	14.35	AV
2	2390	34.14	54.00	-19.86	19.25	14.89	AV
! 3	2436.3	100.03	54.00	46.03	84.81	15.22	AV
4	2483.5	34.38	54.00	-19.62	18.84	15.54	AV
5	2483.75	34.07	54.00	-19.93	18.53	15.54	AV
6	2500	33.47	54.00	-20.53	17.82	15.65	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11b_2437MHz		

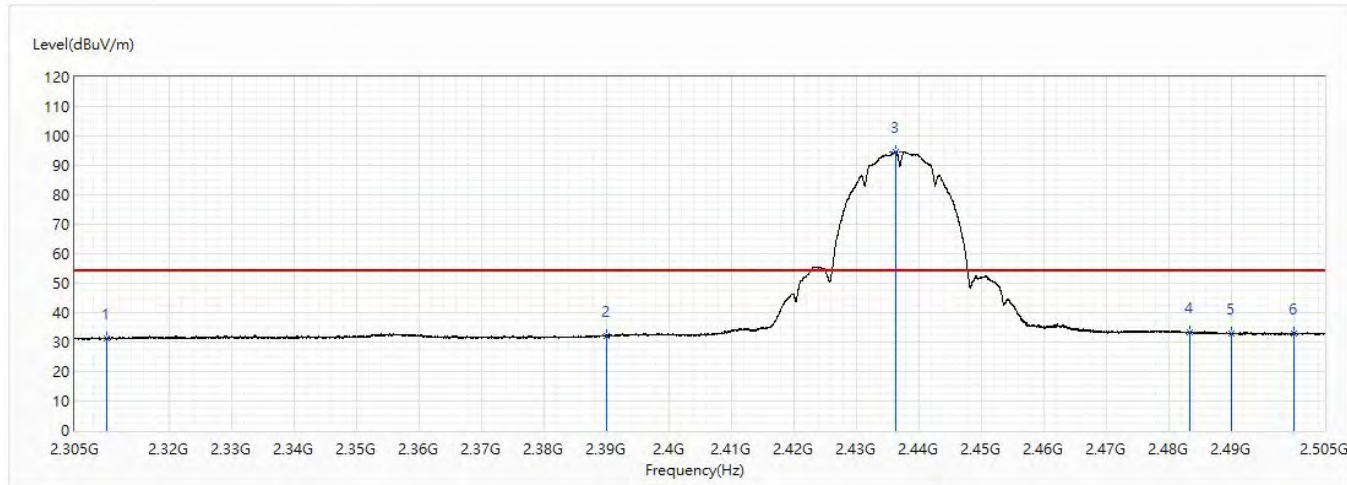


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	41.66	74.00	-32.34	27.31	14.35	PK
2	2390	43.22	74.00	-30.78	28.33	14.89	PK
! 3	2437.075	99.09	74.00	25.09	83.87	15.22	PK
4	2483.5	44.39	74.00	-29.61	28.85	15.54	PK
5	2487.775	46.33	74.00	-27.67	30.76	15.57	PK
6	2500	43.43	74.00	-30.57	27.78	15.65	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11b_2437MHz		

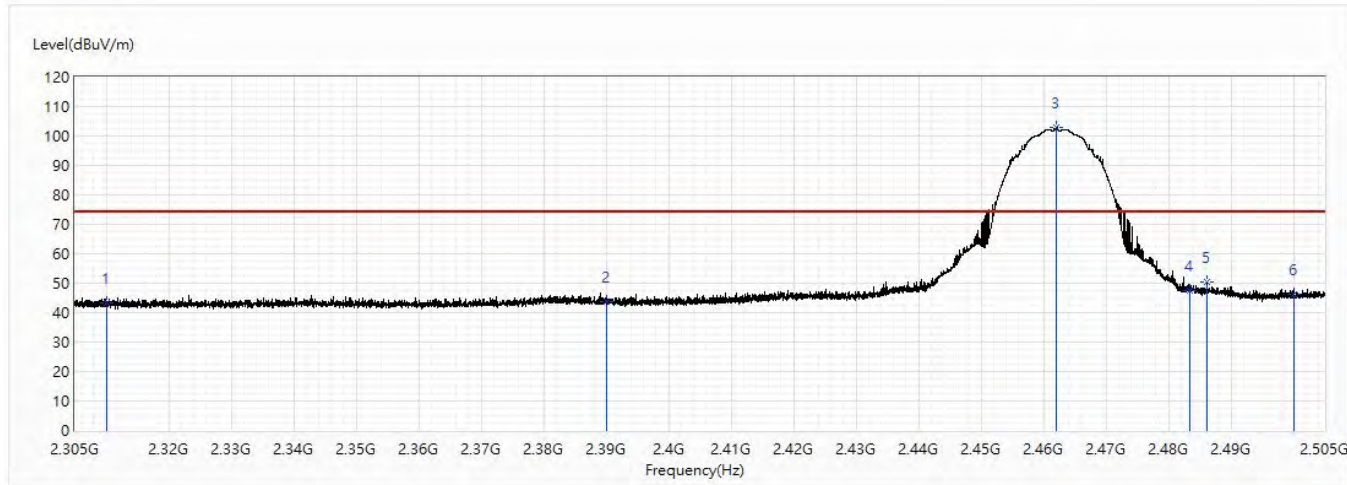


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	31.13	54.00	-22.87	16.78	14.35	AV
2	2390	32.23	54.00	-21.77	17.34	14.89	AV
! 3	2436.35	94.77	54.00	40.77	79.55	15.22	AV
4	2483.5	33.30	54.00	-20.70	17.76	15.54	AV
5	2490.05	33.09	54.00	-20.91	17.51	15.58	AV
6	2500	32.95	54.00	-21.05	17.30	15.65	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11b_2462MHz		

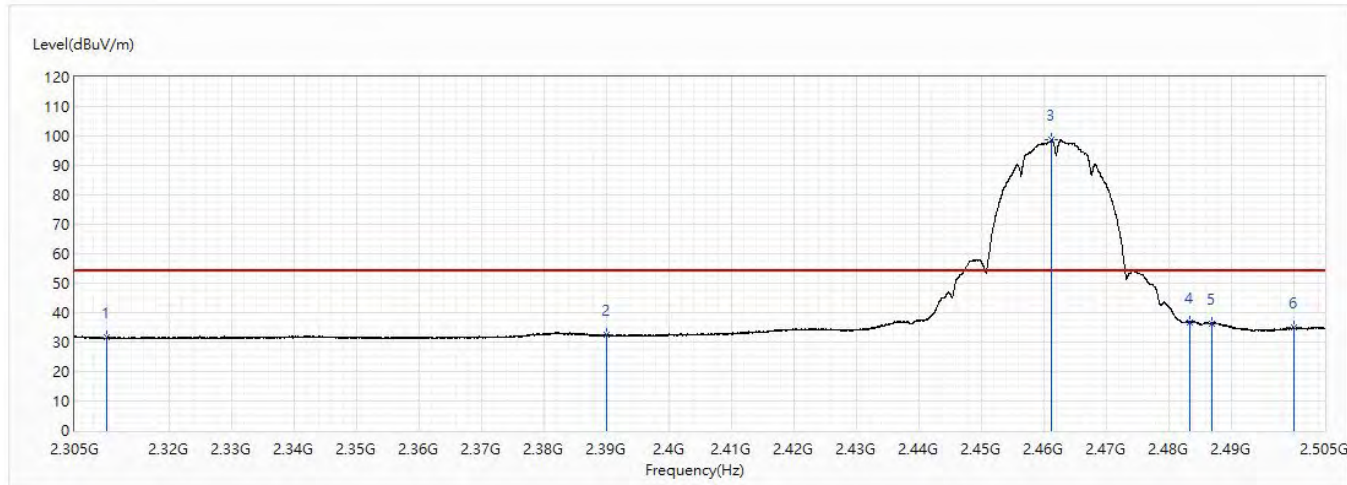


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	43.13	74.00	-30.87	28.78	14.35	PK
2	2390	43.56	74.00	-30.44	28.67	14.89	PK
! 3	2462.075	102.86	74.00	28.86	87.47	15.39	PK
4	2483.5	47.35	74.00	-26.65	31.81	15.54	PK
5	2486.175	50.40	74.00	-23.60	34.84	15.56	PK
6	2500	46.07	74.00	-27.93	30.42	15.65	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11b_2462MHz		

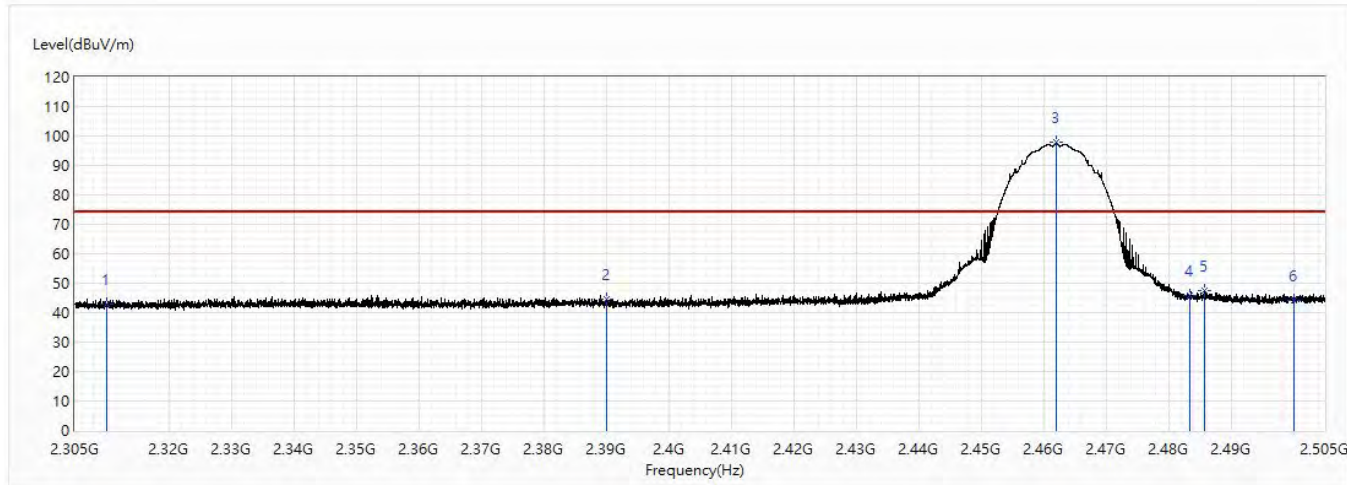


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	31.52	54.00	-22.48	17.17	14.35	AV
2	2390	32.30	54.00	-21.70	17.41	14.89	AV
! 3	2461.3	98.61	54.00	44.61	83.22	15.39	AV
4	2483.5	36.74	54.00	-17.26	21.20	15.54	AV
5	2487	36.39	54.00	-17.61	20.83	15.56	AV
6	2500	34.81	54.00	-19.19	19.16	15.65	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11b_2462MHz		

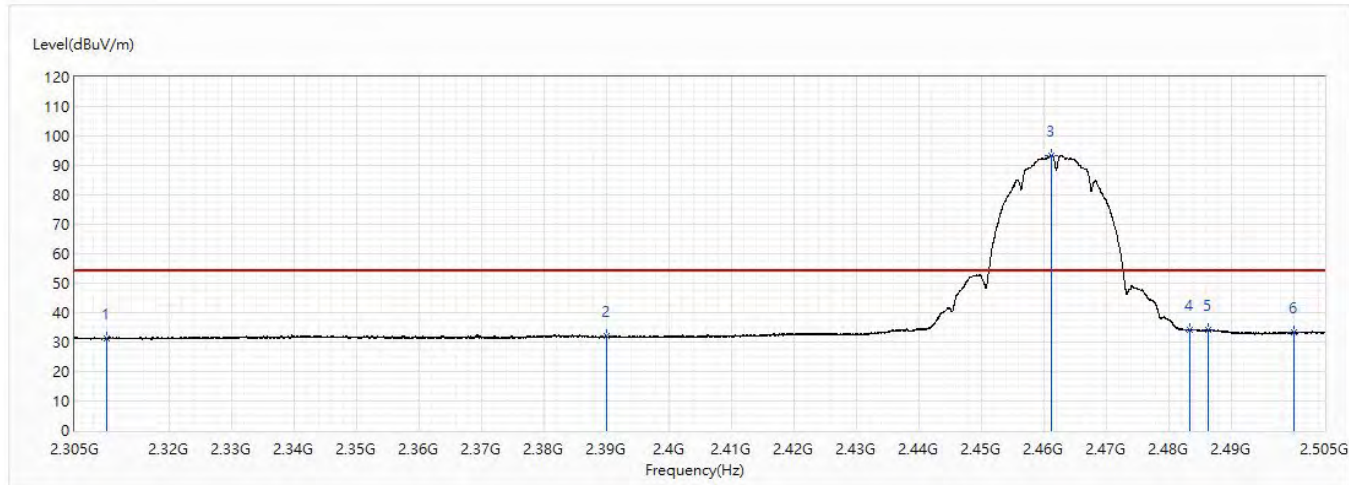


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	43.06	74.00	-30.94	28.71	14.35	PK
2	2390	44.59	74.00	-29.41	29.70	14.89	PK
! 3	2462.075	97.72	74.00	23.72	82.33	15.39	PK
4	2483.5	45.73	74.00	-28.27	30.19	15.54	PK
5	2485.875	47.56	74.00	-26.44	32.01	15.55	PK
6	2500	44.33	74.00	-29.67	28.68	15.65	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11b_2462MHz		

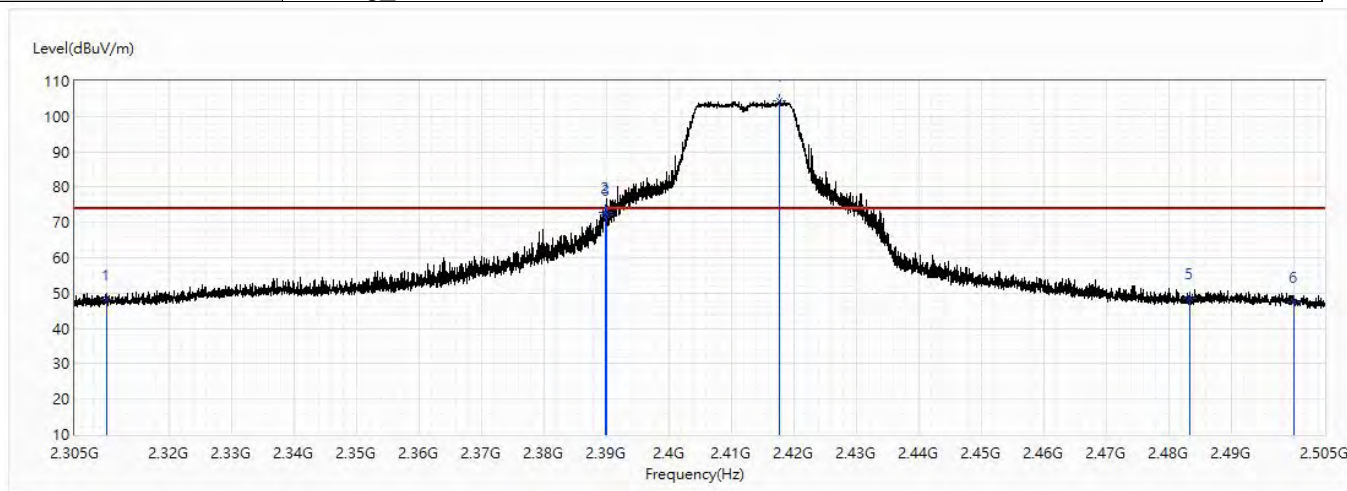


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	31.15	54.00	-22.85	16.80	14.35	AV
2	2390	31.88	54.00	-22.12	16.99	14.89	AV
! 3	2461.325	93.54	54.00	39.54	78.15	15.39	AV
4	2483.5	34.22	54.00	-19.78	18.68	15.54	AV
5	2486.325	33.98	54.00	-20.02	18.42	15.56	AV
6	2500	33.25	54.00	-20.75	17.60	15.65	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11g_2412MHz		

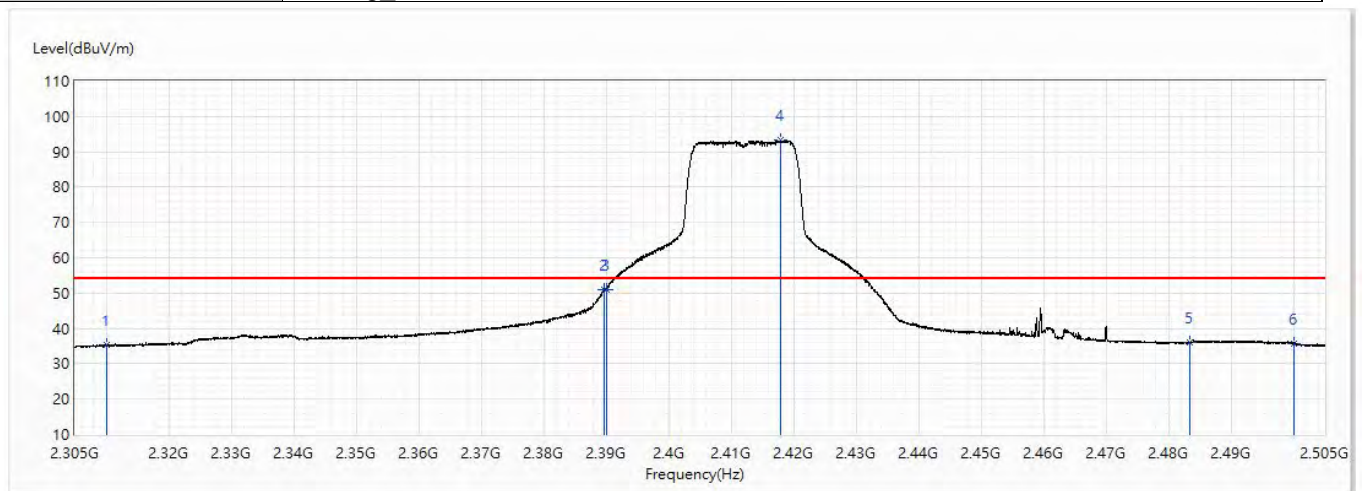


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	48.25	74.00	-25.75	34.10	14.15	PK
2	2389.9	72.87	74.00	-1.13	58.18	14.69	PK
3	2390	72.22	74.00	-1.78	57.53	14.69	PK
! 4	2417.825	104.33	74.00	30.33	89.45	14.88	PK
5	2483.5	48.65	74.00	-25.35	33.34	15.31	PK
6	2500	47.49	74.00	-26.51	32.08	15.41	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11g_2412MHz		

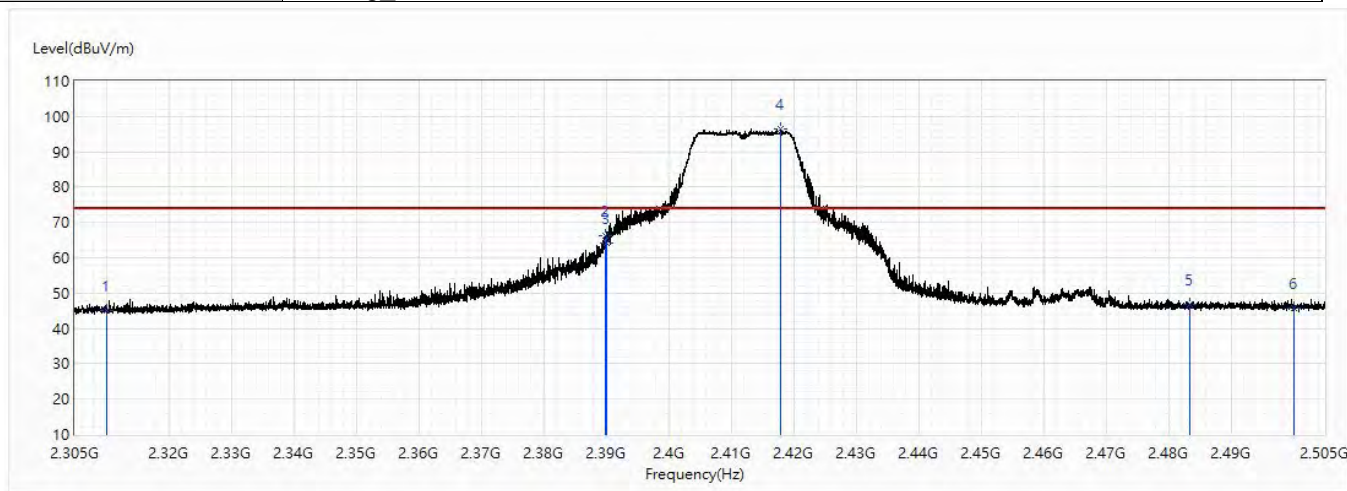


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	35.19	54.00	-18.81	21.04	14.15	AV
2	2389.775	51.06	54.00	-2.94	36.37	14.69	AV
3	2390	51.05	54.00	-2.95	36.36	14.69	AV
! 4	2417.9	93.16	54.00	39.16	78.28	14.88	AV
5	2483.5	35.95	54.00	-18.05	20.64	15.31	AV
6	2500	35.77	54.00	-18.23	20.36	15.41	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11g_2412MHz		

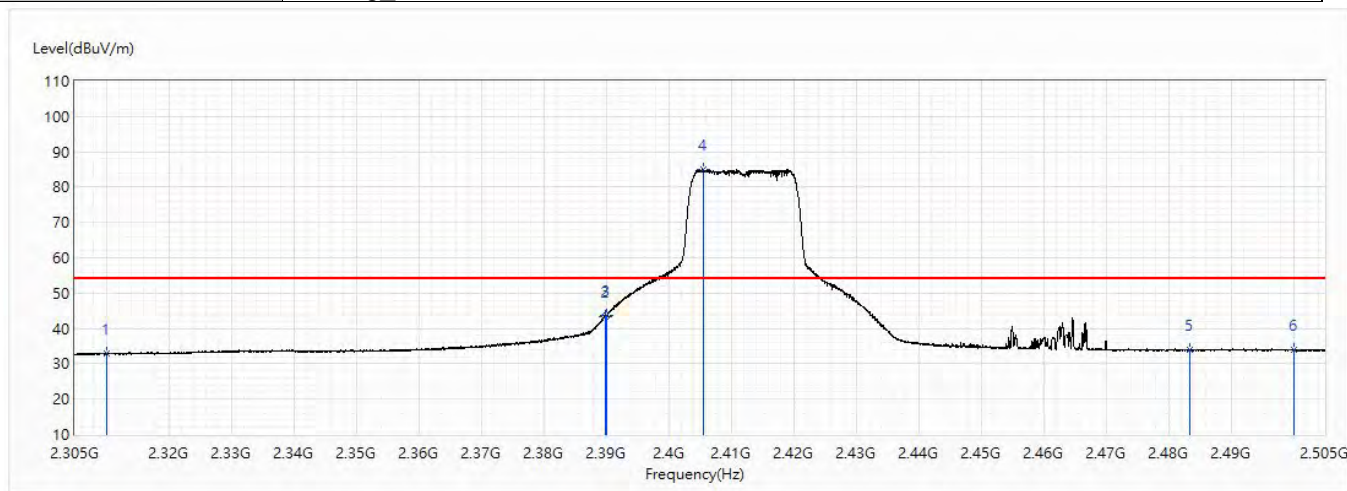


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	45.07	74.00	-28.93	30.92	14.15	PK
2	2389.825	66.12	74.00	-7.88	51.43	14.69	PK
3	2390	64.18	74.00	-9.82	49.49	14.69	PK
! 4	2417.875	96.53	74.00	22.53	81.65	14.88	PK
5	2483.5	46.86	74.00	-27.14	31.55	15.31	PK
6	2500	45.92	74.00	-28.08	30.51	15.41	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11g_2412MHz		

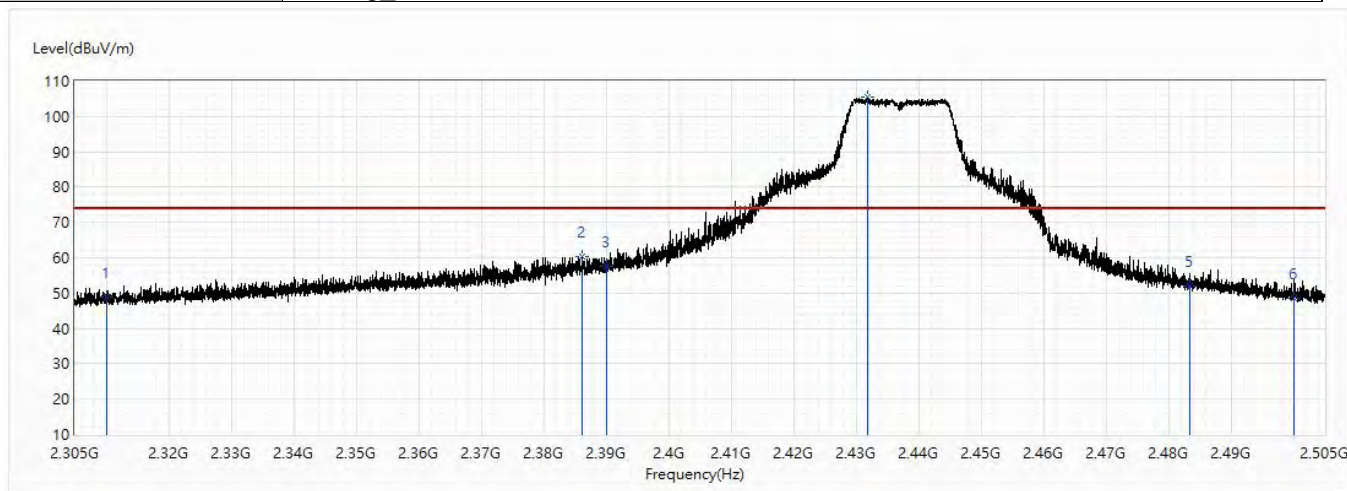


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.77	54.00	-21.23	18.62	14.15	AV
2	2389.925	43.34	54.00	-10.66	28.65	14.69	AV
3	2390	43.53	54.00	-10.47	28.84	14.69	AV
! 4	2405.625	85.06	54.00	31.06	70.25	14.81	AV
5	2483.5	33.86	54.00	-20.14	18.55	15.31	AV
6	2500	33.95	54.00	-20.05	18.54	15.41	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11g_2437MHz		

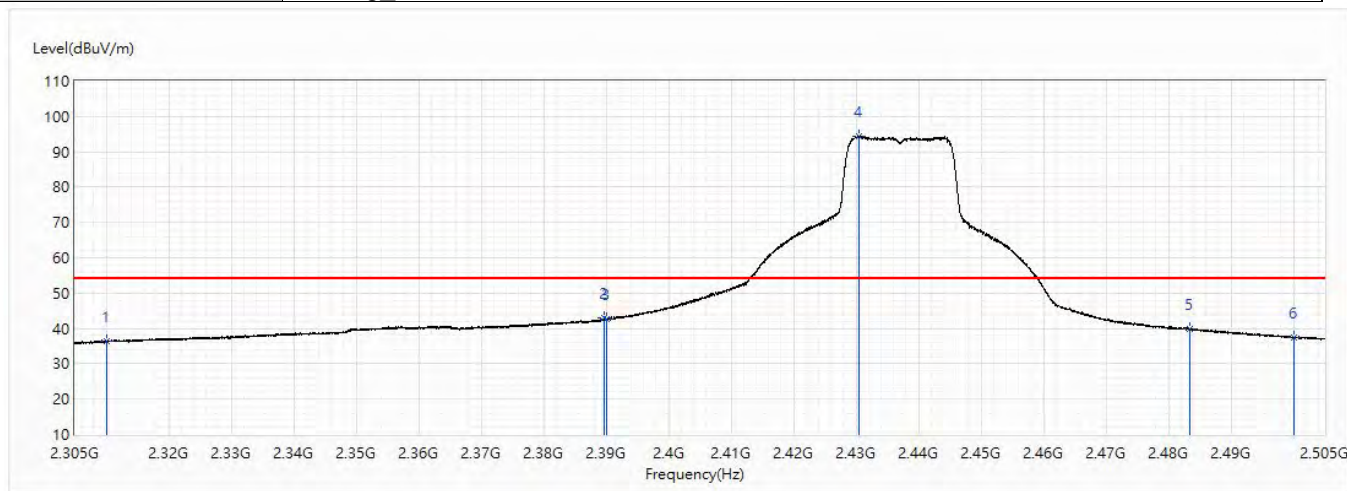


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	48.84	74.00	-25.16	34.69	14.15	PK
2	2386.225	60.51	74.00	-13.49	45.84	14.67	PK
3	2390	57.47	74.00	-16.53	42.78	14.69	PK
! 4	2431.825	105.35	74.00	31.35	90.37	14.98	PK
5	2483.5	52.07	74.00	-21.93	36.76	15.31	PK
6	2500	48.65	74.00	-25.35	33.24	15.41	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11g_2437MHz		

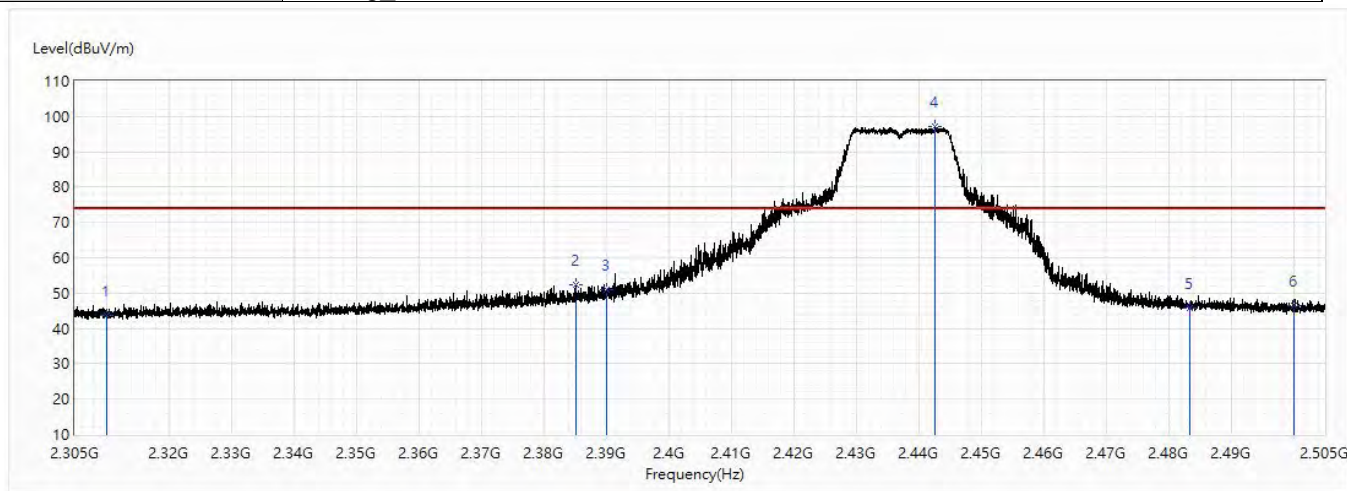


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	36.43	54.00	-17.57	22.28	14.15	AV
2	2389.775	42.83	54.00	-11.17	28.14	14.69	AV
3	2390	42.59	54.00	-11.41	27.90	14.69	AV
! 4	2430.525	94.38	54.00	40.38	79.40	14.98	AV
5	2483.5	39.72	54.00	-14.28	24.41	15.31	AV
6	2500	37.47	54.00	-16.53	22.06	15.41	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11g_2437MHz		

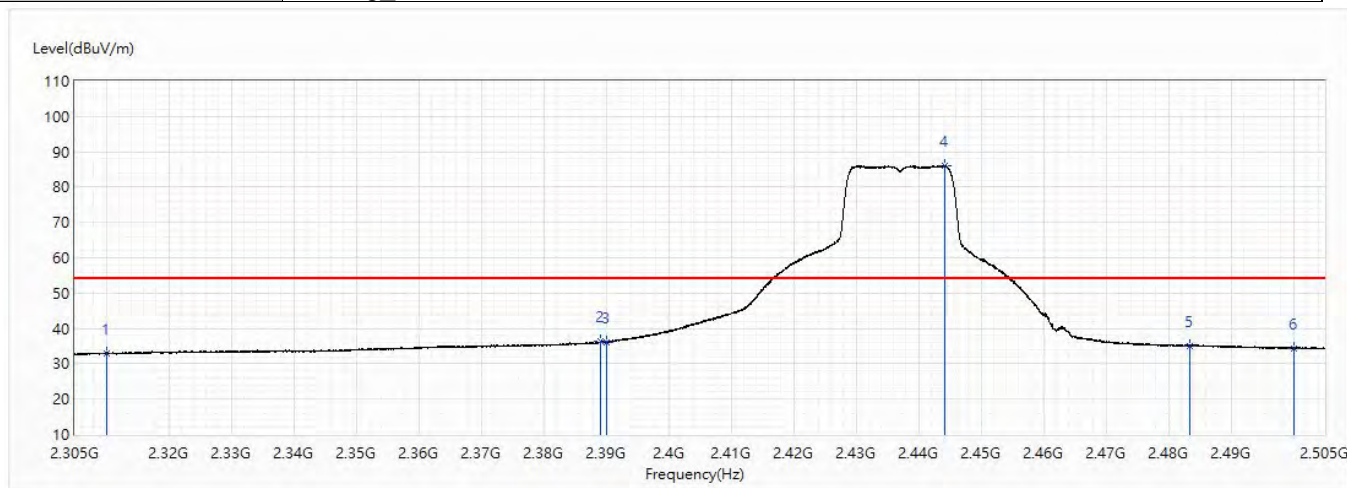


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	43.68	74.00	-30.32	29.53	14.15	PK
2	2385.225	52.35	74.00	-21.65	37.68	14.67	PK
3	2390	51.03	74.00	-22.97	36.34	14.69	PK
! 4	2442.625	97.18	74.00	23.18	82.12	15.06	PK
5	2483.5	45.80	74.00	-28.20	30.49	15.31	PK
6	2500	46.43	74.00	-27.57	31.02	15.41	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11g_2437MHz		

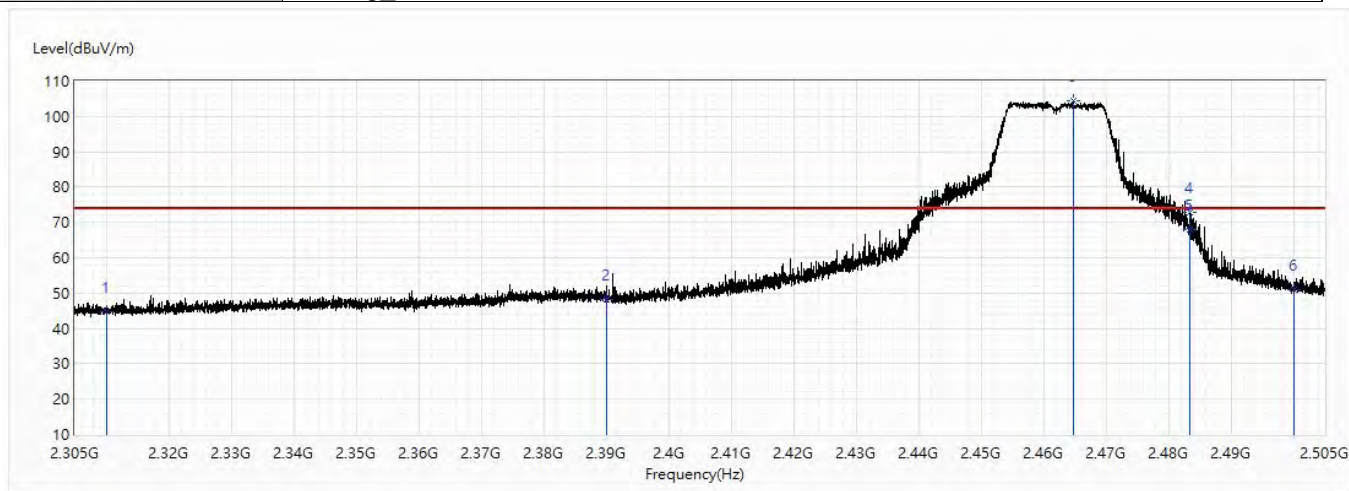


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	33.04	54.00	-20.96	18.89	14.15	AV
2	2389.175	36.24	54.00	-17.76	21.55	14.69	AV
3	2390	36.18	54.00	-17.82	21.49	14.69	AV
! 4	2444.25	86.10	54.00	32.10	71.03	15.07	AV
5	2483.5	35.16	54.00	-18.84	19.85	15.31	AV
6	2500	34.44	54.00	-19.56	19.03	15.41	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11g_2462MHz		

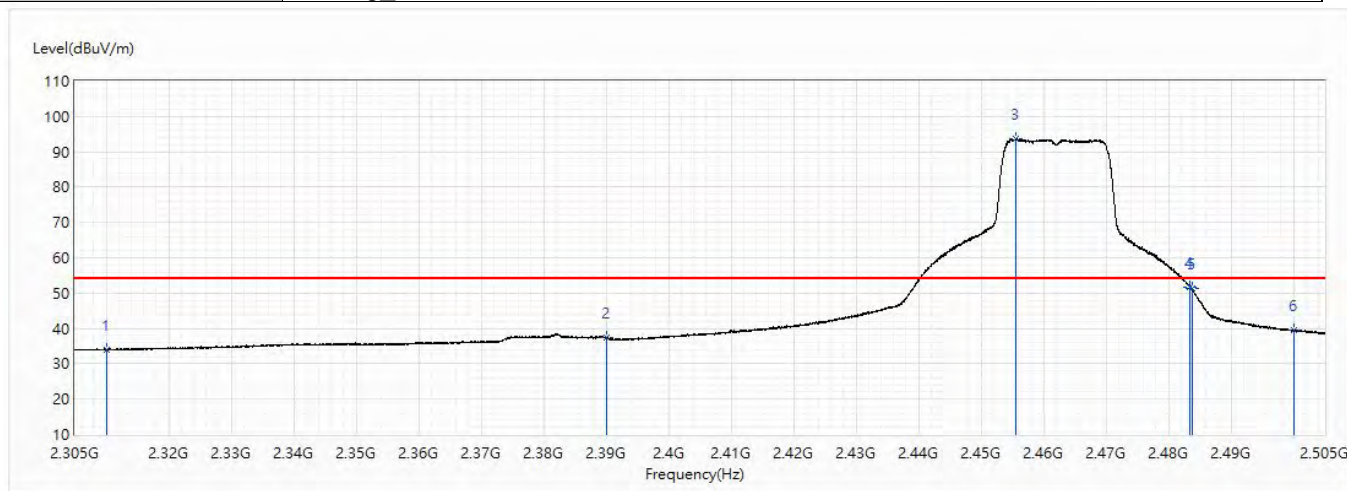


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.57	74.00	-29.43	30.42	14.15	PK
2	2390	48.35	74.00	-25.65	33.66	14.69	PK
! 3	2464.825	104.34	74.00	30.34	89.15	15.19	PK
4	2483.45	72.99	74.00	-1.01	57.68	15.31	PK
5	2483.5	67.82	74.00	-6.18	52.51	15.31	PK
6	2500	51.06	74.00	-22.94	35.65	15.41	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11g_2462MHz		

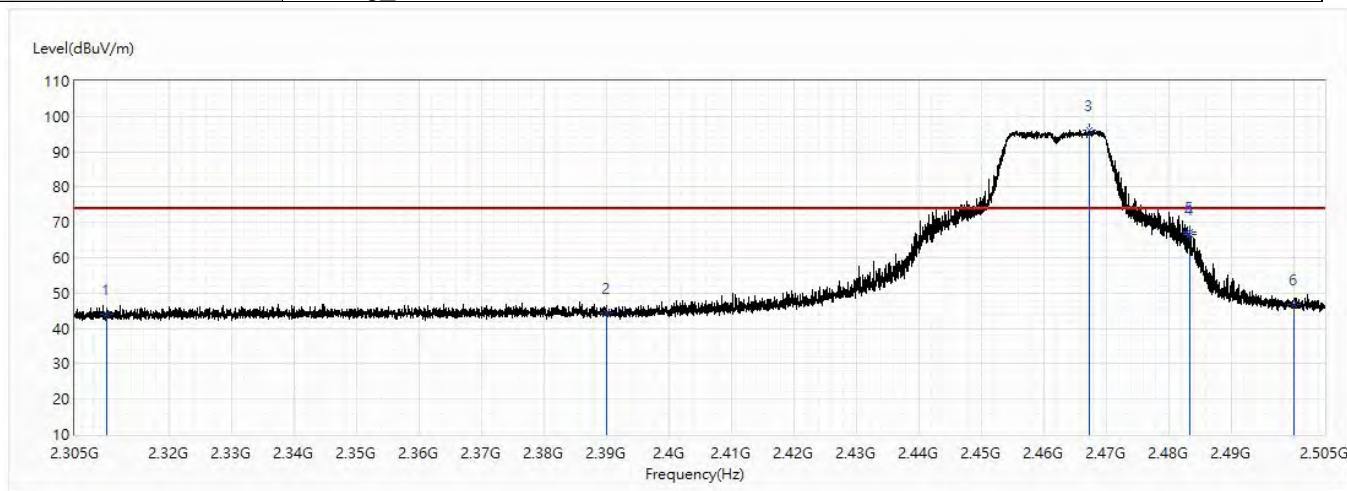


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	33.97	54.00	-20.03	19.82	14.15	AV
2	2390	37.42	54.00	-16.58	22.73	14.69	AV
! 3	2455.65	93.56	54.00	39.56	78.43	15.13	AV
4	2483.5	51.68	54.00	-2.32	36.37	15.31	AV
5	2483.75	51.28	54.00	-2.72	35.97	15.31	AV
6	2500	39.37	54.00	-14.63	23.96	15.41	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11g_2462MHz		

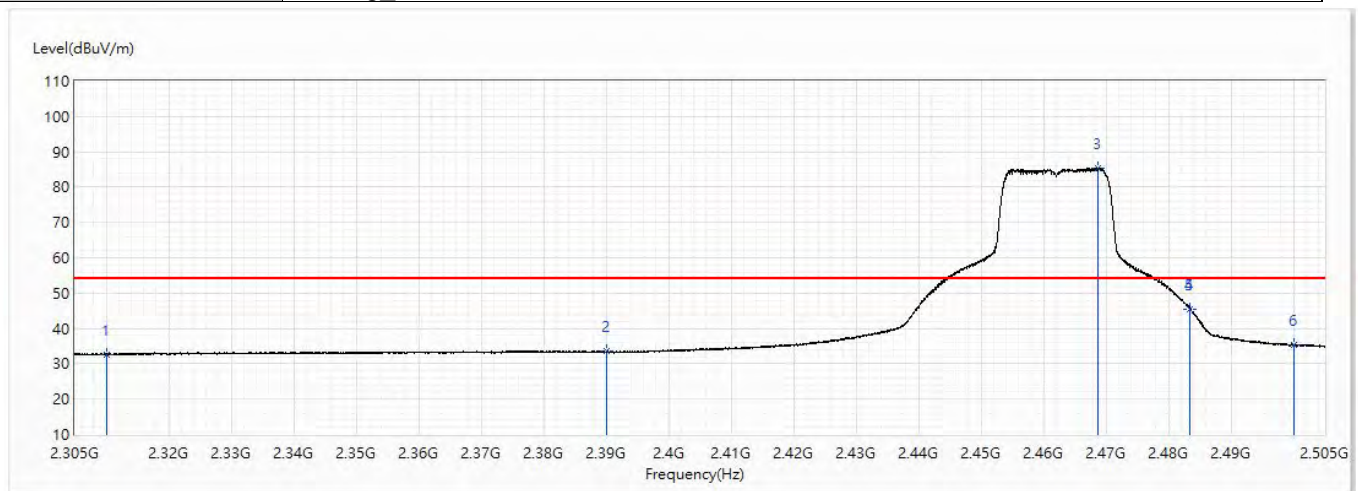


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	43.97	74.00	-30.03	29.82	14.15	PK
2	2390	44.39	74.00	-29.61	29.70	14.69	PK
! 3	2467.375	96.18	74.00	22.18	80.96	15.22	PK
4	2483.5	66.73	74.00	-7.27	51.42	15.31	PK
5	2483.525	67.25	74.00	-6.75	51.94	15.31	PK
6	2500	46.82	74.00	-27.18	31.41	15.41	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11g_2462MHz		

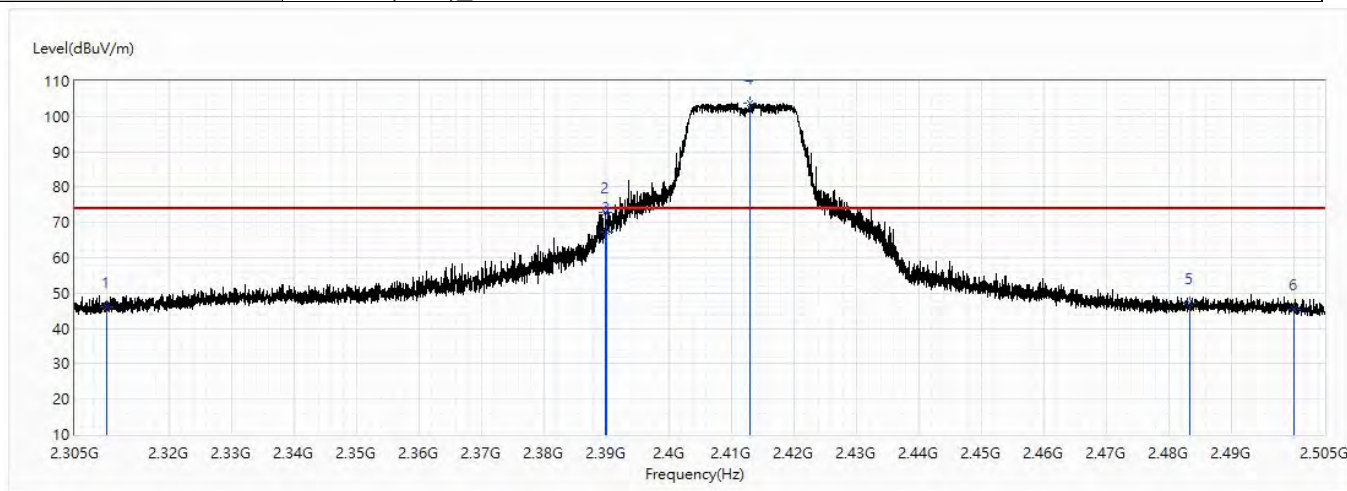


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.67	54.00	-21.33	18.52	14.15	AV
2	2390	33.48	54.00	-20.52	18.79	14.69	AV
! 3	2468.675	85.39	54.00	31.39	70.17	15.22	AV
4	2483.5	45.48	54.00	-8.52	30.17	15.31	AV
5	2483.525	45.30	54.00	-8.70	29.99	15.31	AV
6	2500	35.23	54.00	-18.77	19.82	15.41	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M) 2412MHz		

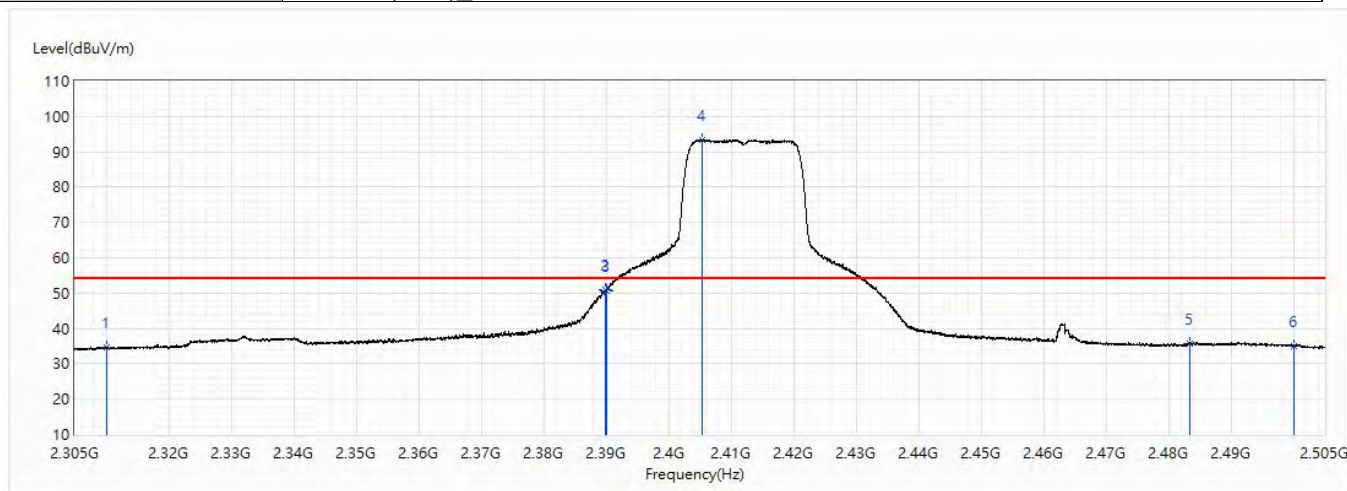


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	46.28	74.00	-27.72	32.13	14.15	PK
2	2389.95	72.76	74.00	-1.24	58.07	14.69	PK
3	2390	67.14	74.00	-6.86	52.45	14.69	PK
! 4	2413.1	103.88	74.00	29.88	89.02	14.86	PK
5	2483.5	47.03	74.00	-26.97	31.72	15.31	PK
6	2500	45.25	74.00	-28.75	29.84	15.41	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M) 2412MHz		

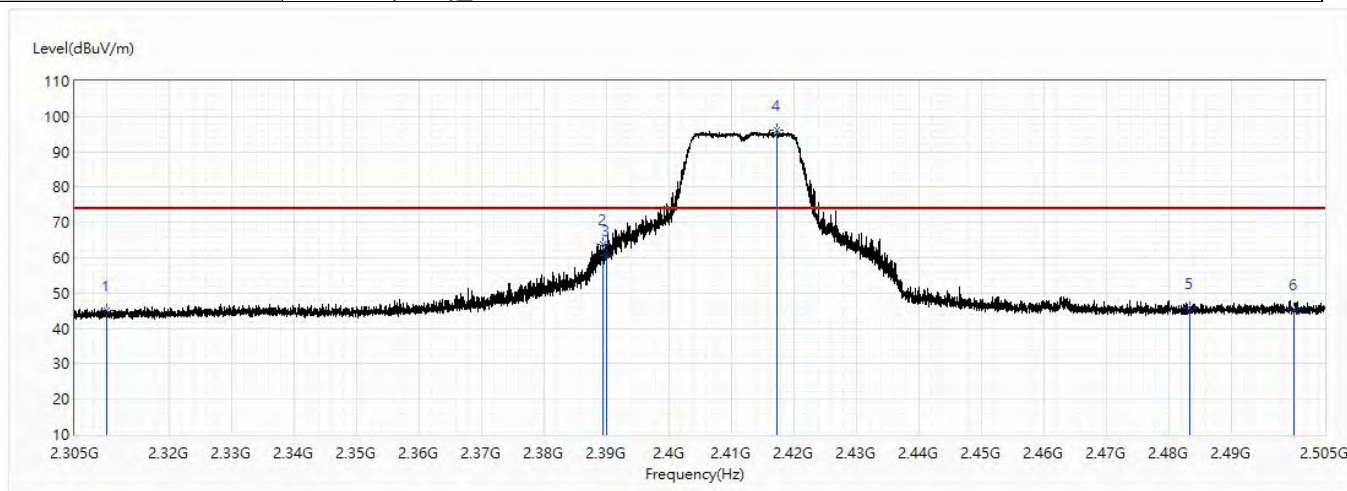


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	34.56	54.00	-19.44	20.41	14.15	AV
2	2389.9	50.96	54.00	-3.04	36.27	14.69	AV
3	2390	50.59	54.00	-3.41	35.90	14.69	AV
! 4	2405.45	93.50	54.00	39.50	78.69	14.81	AV
5	2483.5	35.61	54.00	-18.39	20.30	15.31	AV
6	2500	35.12	54.00	-18.88	19.71	15.41	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M) 2412MHz		

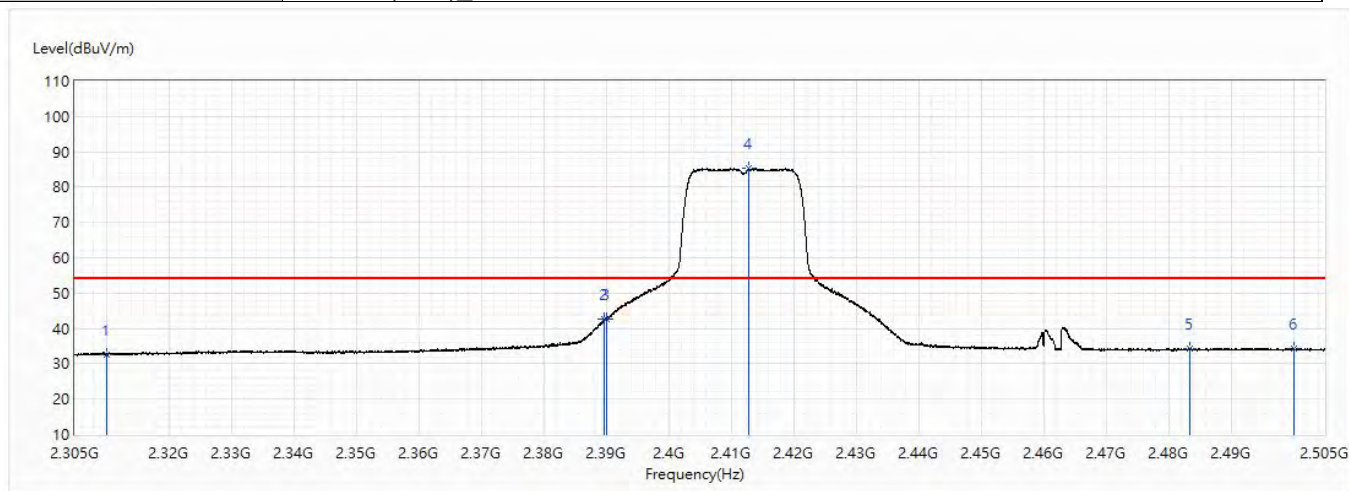


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.96	74.00	-29.04	30.81	14.15	PK
2	2389.575	63.99	74.00	-10.01	49.30	14.69	PK
3	2390	60.86	74.00	-13.14	46.17	14.69	PK
! 4	2417.325	95.97	74.00	21.97	81.09	14.88	PK
5	2483.5	45.61	74.00	-28.39	30.30	15.31	PK
6	2500	45.40	74.00	-28.60	29.99	15.41	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M) 2412MHz		

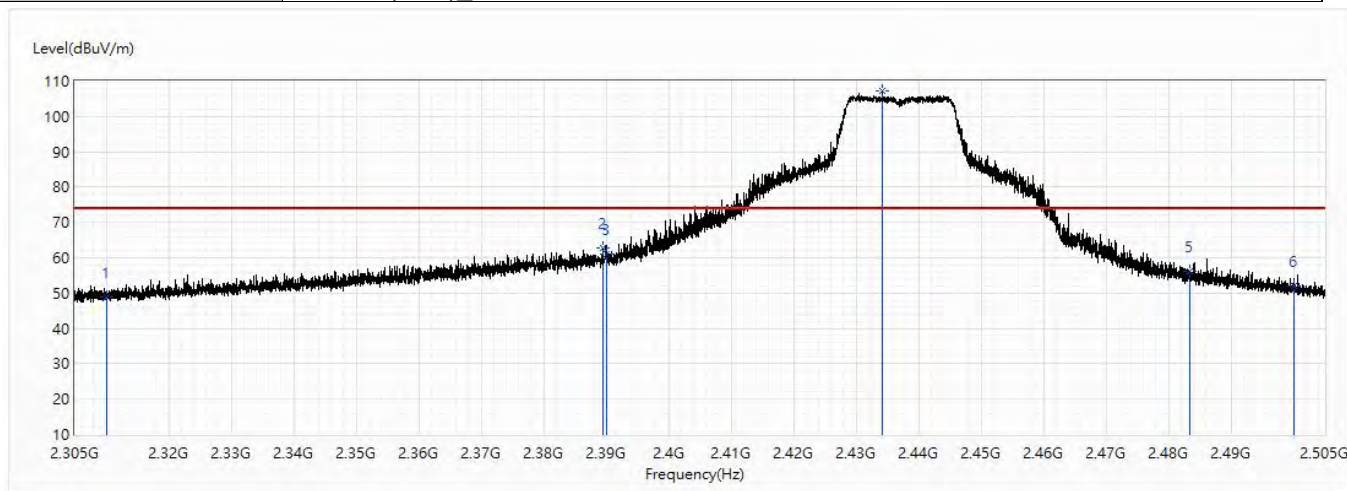


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.74	54.00	-21.26	18.59	14.15	AV
2	2389.775	42.74	54.00	-11.26	28.05	14.69	AV
3	2390	42.61	54.00	-11.39	27.92	14.69	AV
! 4	2412.875	85.29	54.00	31.29	70.43	14.86	AV
5	2483.5	34.14	54.00	-19.86	18.83	15.31	AV
6	2500	34.14	54.00	-19.86	18.73	15.41	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M) 2437MHz		

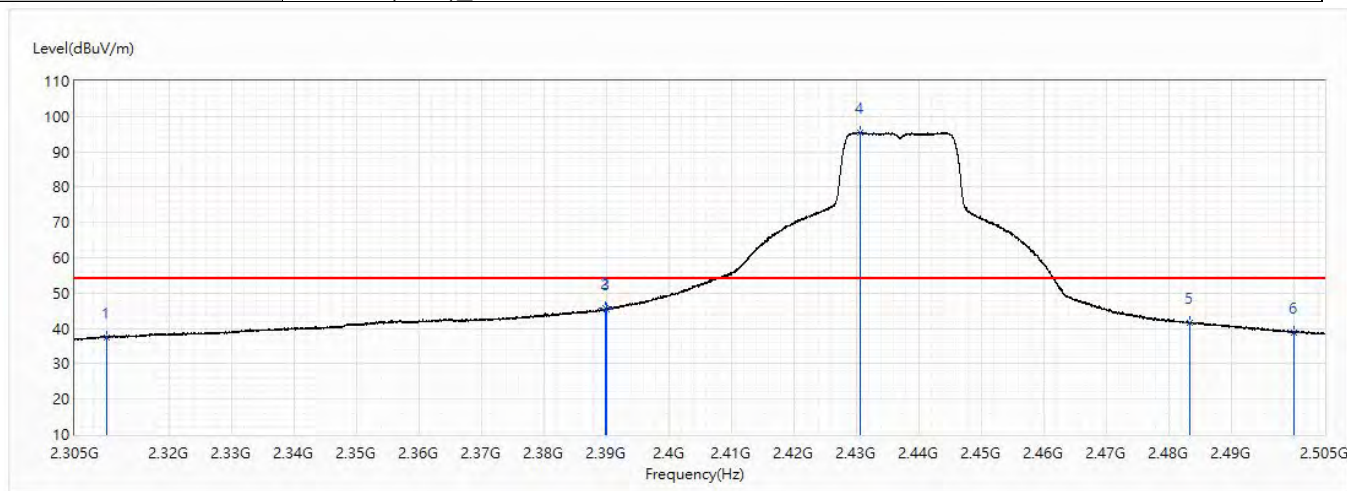


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	49.05	74.00	-24.95	34.90	14.15	PK
2	2389.475	62.90	74.00	-11.10	48.21	14.69	PK
3	2390	61.13	74.00	-12.87	46.44	14.69	PK
! 4	2434.25	107.26	74.00	33.26	92.27	14.99	PK
5	2483.5	56.01	74.00	-17.99	40.70	15.31	PK
6	2500	51.96	74.00	-22.04	36.55	15.41	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M) 2437MHz		

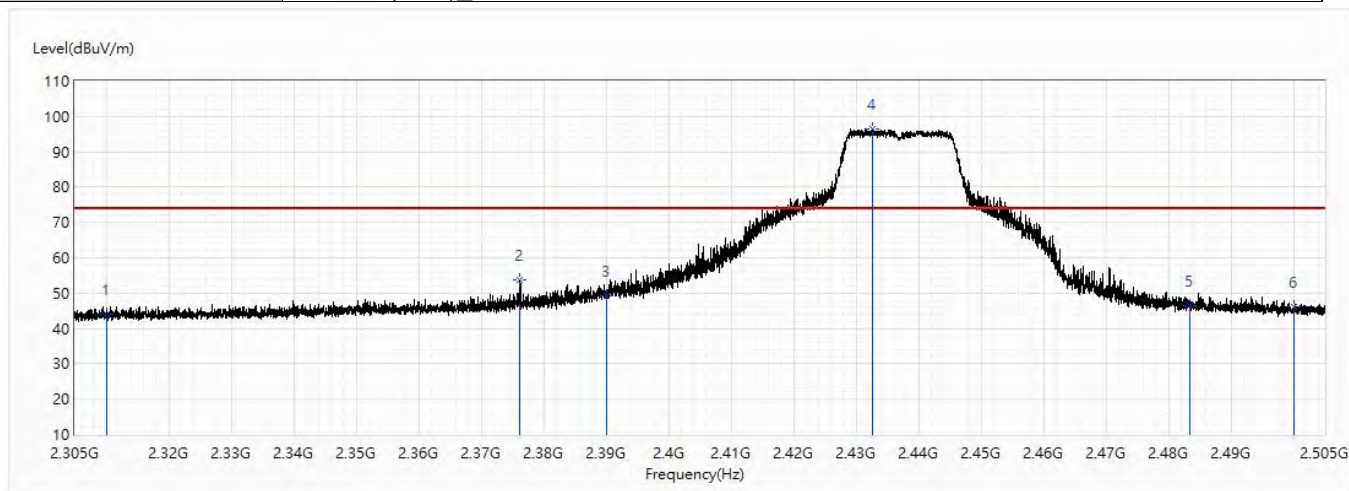


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	37.57	54.00	-16.43	23.42	14.15	AV
2	2389.85	45.60	54.00	-8.40	30.91	14.69	AV
3	2390	45.48	54.00	-8.52	30.79	14.69	AV
! 4	2430.7	95.51	54.00	41.51	80.53	14.98	AV
5	2483.5	41.54	54.00	-12.46	26.23	15.31	AV
6	2500	38.98	54.00	-15.02	23.57	15.41	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M) 2437MHz		

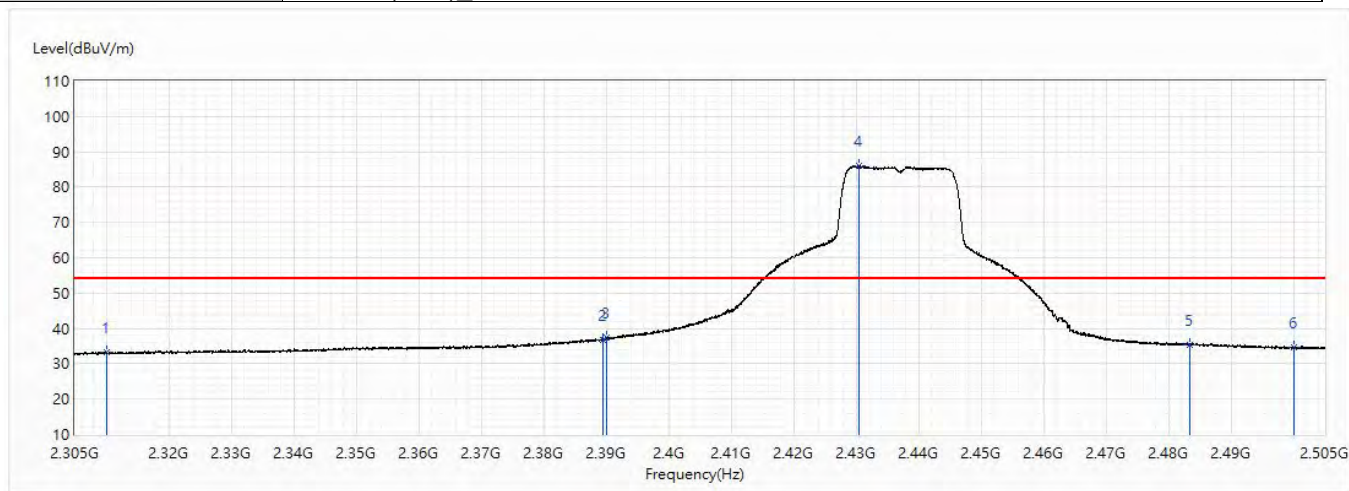


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.14	74.00	-29.86	29.99	14.15	PK
2	2376.25	53.90	74.00	-20.10	39.30	14.60	PK
3	2390	49.29	74.00	-24.71	34.60	14.69	PK
! 4	2432.55	96.39	74.00	22.39	81.40	14.99	PK
5	2483.5	46.30	74.00	-27.70	30.99	15.31	PK
6	2500	46.14	74.00	-27.86	30.73	15.41	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M) 2437MHz		

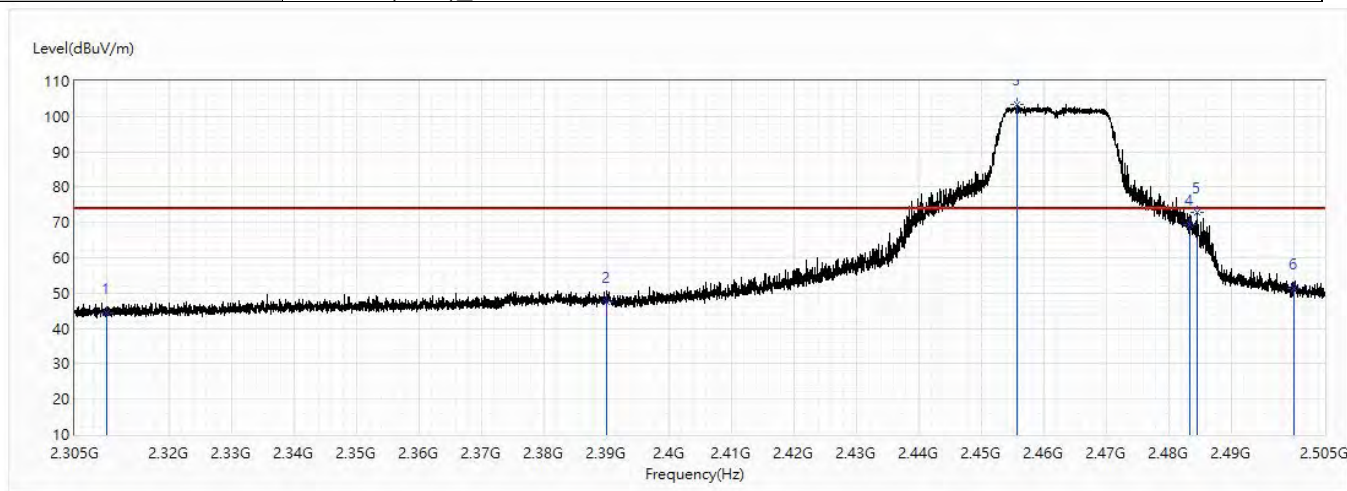


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	33.15	54.00	-20.85	19.00	14.15	AV
2	2389.425	36.89	54.00	-17.11	22.20	14.69	AV
3	2390	37.29	54.00	-16.71	22.60	14.69	AV
! 4	2430.55	86.03	54.00	32.03	71.05	14.98	AV
5	2483.5	35.38	54.00	-18.62	20.07	15.31	AV
6	2500	34.70	54.00	-19.30	19.29	15.41	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M) 2462MHz		

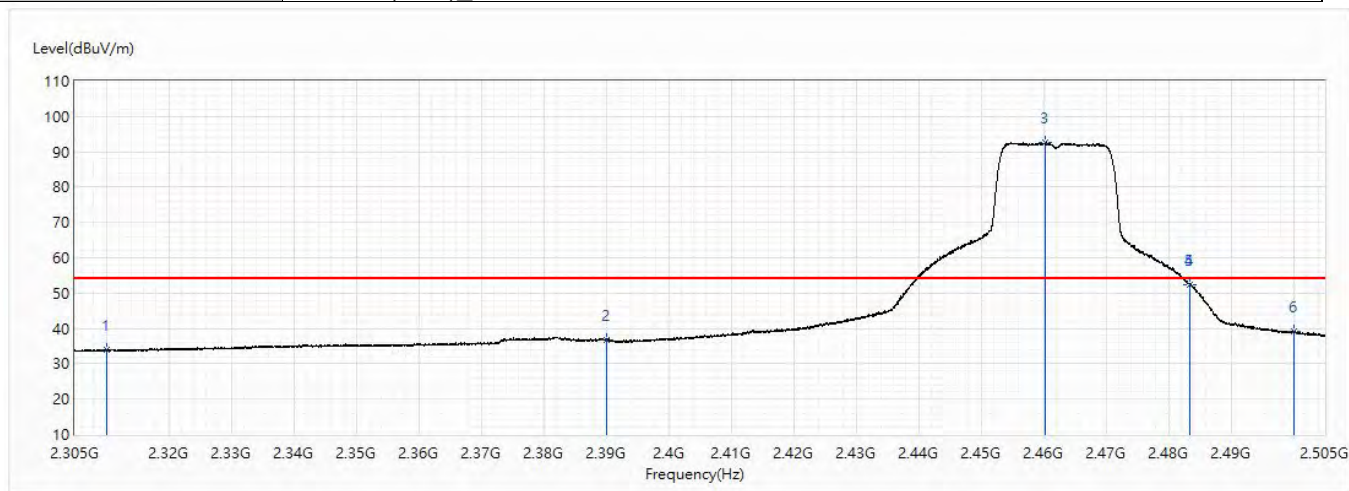


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.31	74.00	-29.69	30.16	14.15	PK
2	2390	47.52	74.00	-26.48	32.83	14.69	PK
! 3	2455.875	103.53	74.00	29.53	88.39	15.14	PK
4	2483.5	69.53	74.00	-4.47	54.22	15.31	PK
5	2484.525	72.96	74.00	-1.04	57.65	15.31	PK
6	2500	51.45	74.00	-22.55	36.04	15.41	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M) 2462MHz		

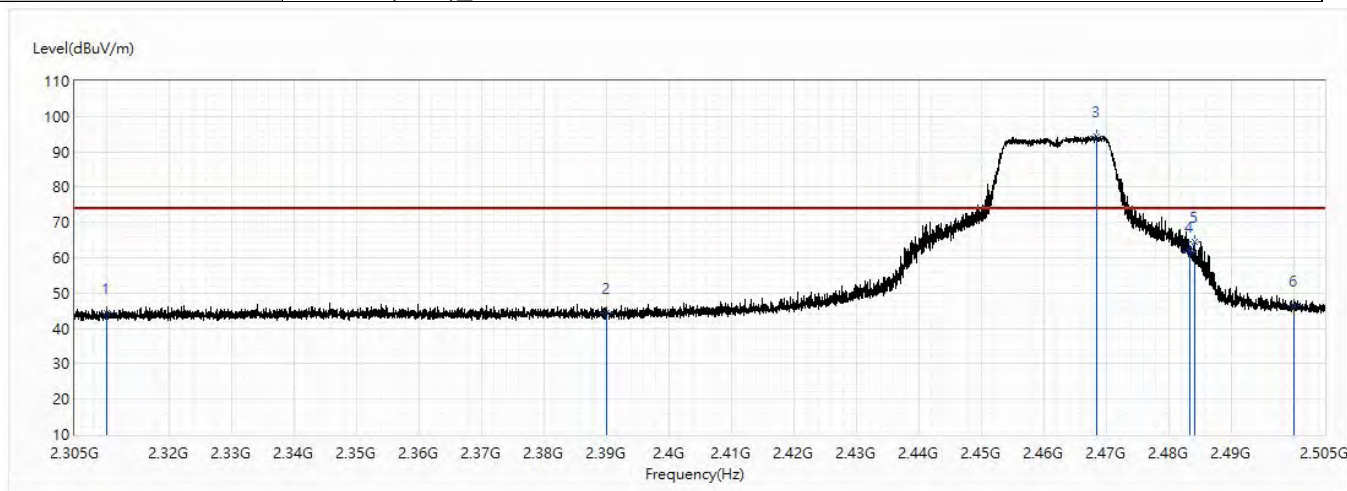


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	33.91	54.00	-20.09	19.76	14.15	AV
2	2390	36.77	54.00	-17.23	22.08	14.69	AV
! 3	2460.35	92.54	54.00	38.54	77.37	15.17	AV
4	2483.5	52.33	54.00	-1.67	37.02	15.31	AV
5	2483.525	52.37	54.00	-1.63	37.06	15.31	AV
6	2500	39.09	54.00	-14.91	23.68	15.41	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M)_2462MHz		

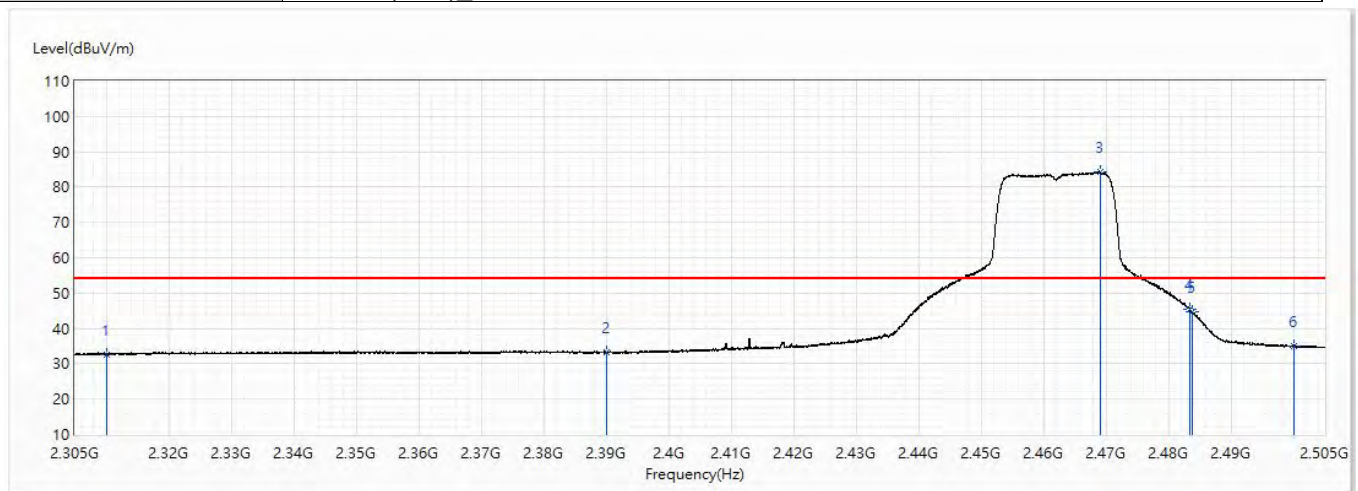


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.30	74.00	-29.70	30.15	14.15	PK
2	2390	44.51	74.00	-29.49	29.82	14.69	PK
! 3	2468.6	94.45	74.00	20.45	79.23	15.22	PK
4	2483.5	61.60	74.00	-12.40	46.29	15.31	PK
5	2484.2	64.56	74.00	-9.44	49.25	15.31	PK
6	2500	46.40	74.00	-27.60	30.99	15.41	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Clemens
Model No :	EW-7811GLN 2.0A	Test Date :	2019/5/21
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (20M) 2462MHz		

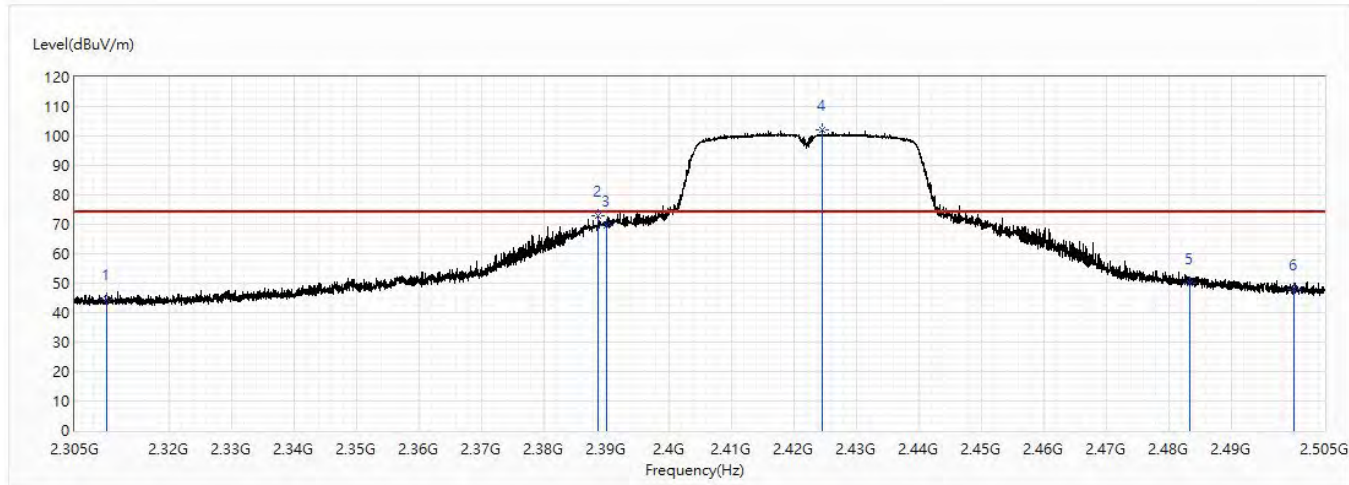


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.65	54.00	-21.35	18.50	14.15	AV
2	2390	33.14	54.00	-20.86	18.45	14.69	AV
! 3	2469.15	84.22	54.00	30.22	69.00	15.22	AV
4	2483.5	45.50	54.00	-8.50	30.19	15.31	AV
5	2483.825	44.78	54.00	-9.22	29.47	15.31	AV
6	2500	34.88	54.00	-19.12	19.47	15.41	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M) 2422MHz		

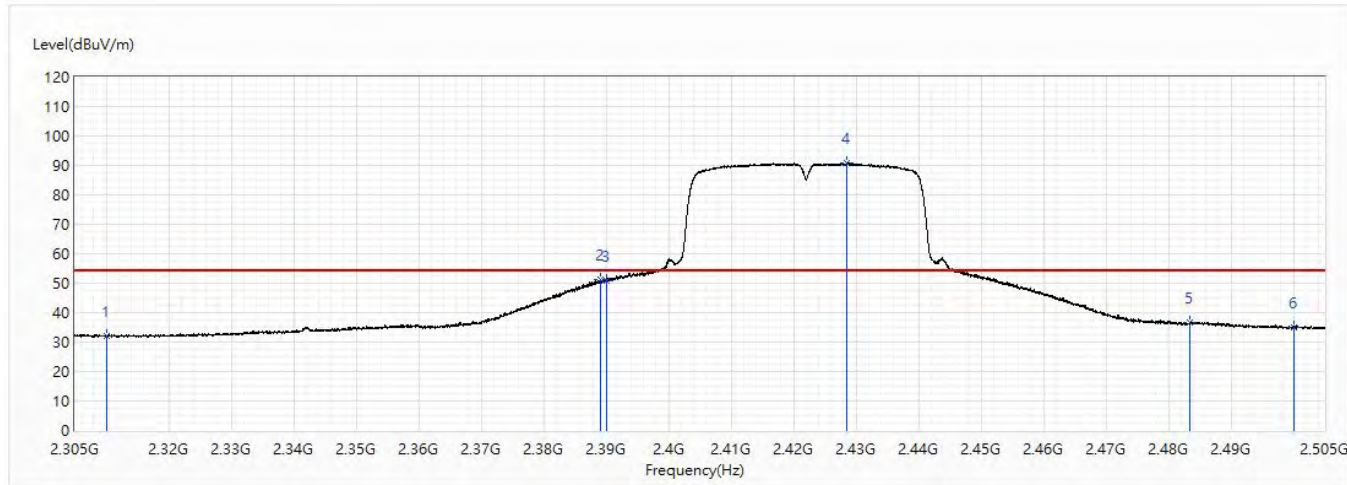


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.51	74.00	-29.49	30.16	14.35	PK
2	2388.8	72.99	74.00	-1.01	58.10	14.89	PK
3	2390	69.46	74.00	-4.54	54.57	14.89	PK
! 4	2424.675	101.94	74.00	27.94	86.81	15.13	PK
5	2483.5	50.14	74.00	-23.86	34.60	15.54	PK
6	2500	47.72	74.00	-26.28	32.07	15.65	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M) 2422MHz		

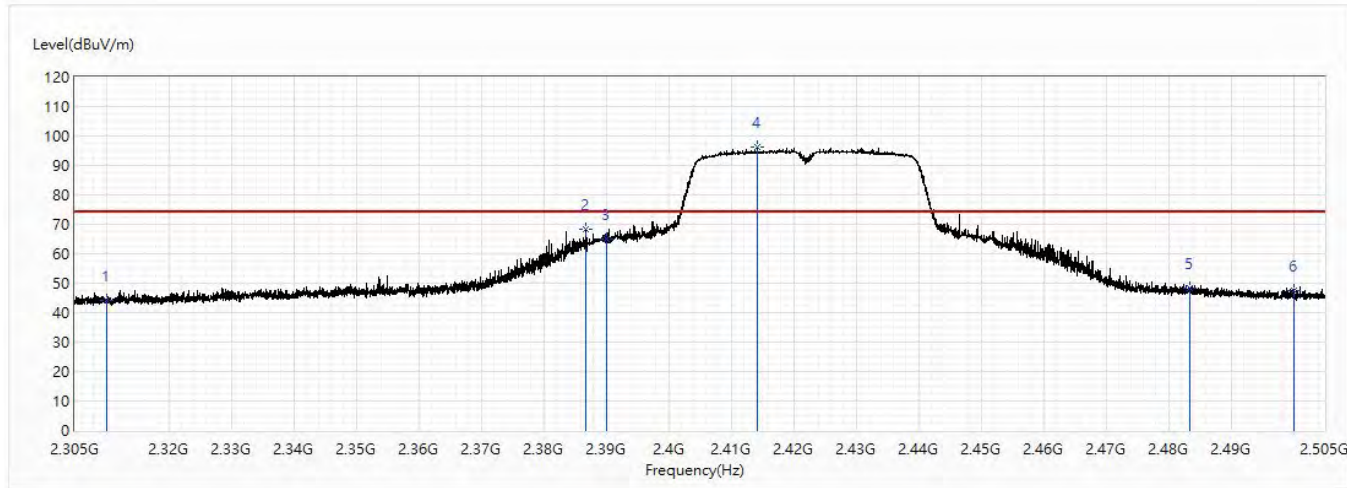


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	31.97	54.00	-22.03	17.62	14.35	AV
2	2389.15	51.18	54.00	-2.82	36.29	14.89	AV
3	2390	50.85	54.00	-3.15	35.96	14.89	AV
! 4	2428.625	90.74	54.00	36.74	75.58	15.16	AV
5	2483.5	36.48	54.00	-17.52	20.94	15.54	AV
6	2500	35.00	54.00	-19.00	19.35	15.65	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M) 2422MHz		

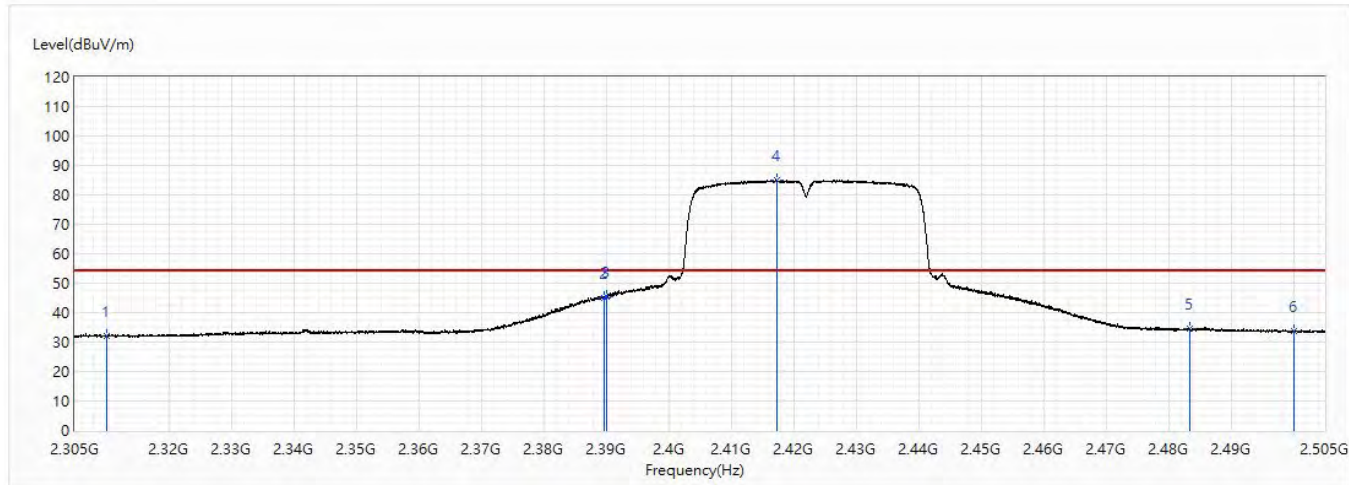


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.22	74.00	-29.78	29.87	14.35	PK
2	2386.85	68.39	74.00	-5.61	53.52	14.87	PK
3	2390	64.96	74.00	-9.04	50.07	14.89	PK
! 4	2414.2	96.09	74.00	22.09	81.03	15.06	PK
5	2483.5	48.15	74.00	-25.85	32.61	15.54	PK
6	2500	47.57	74.00	-26.43	31.92	15.65	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M) 2422MHz		

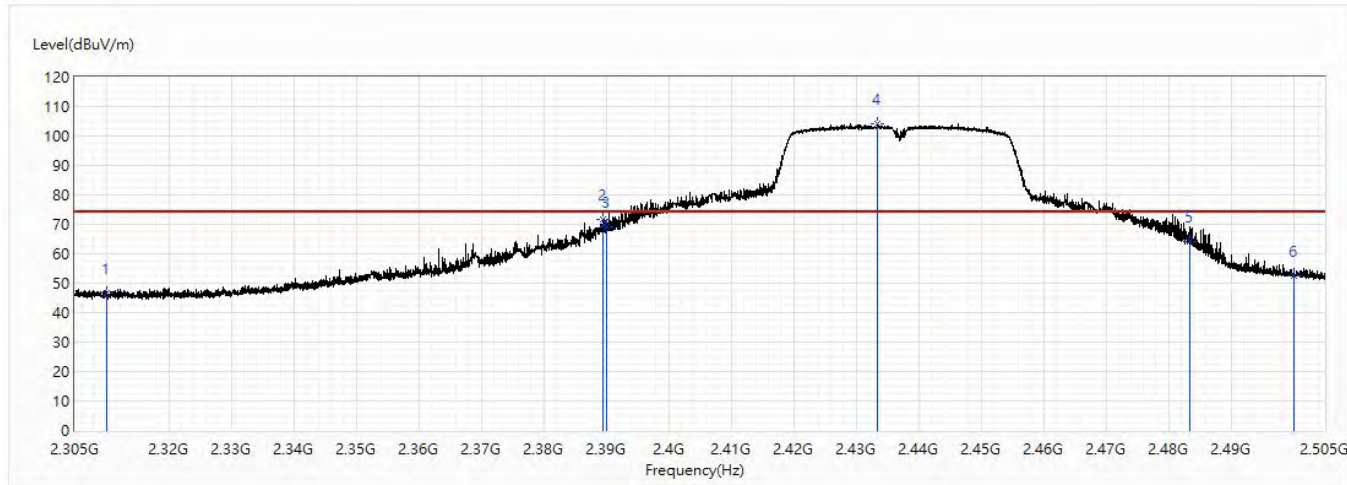


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.09	54.00	-21.91	17.74	14.35	AV
2	2389.675	45.18	54.00	-8.82	30.29	14.89	AV
3	2390	45.48	54.00	-8.52	30.59	14.89	AV
! 4	2417.275	85.04	54.00	31.04	69.96	15.08	AV
5	2483.5	34.39	54.00	-19.61	18.85	15.54	AV
6	2500	33.60	54.00	-20.40	17.95	15.65	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M) 2437MHz		

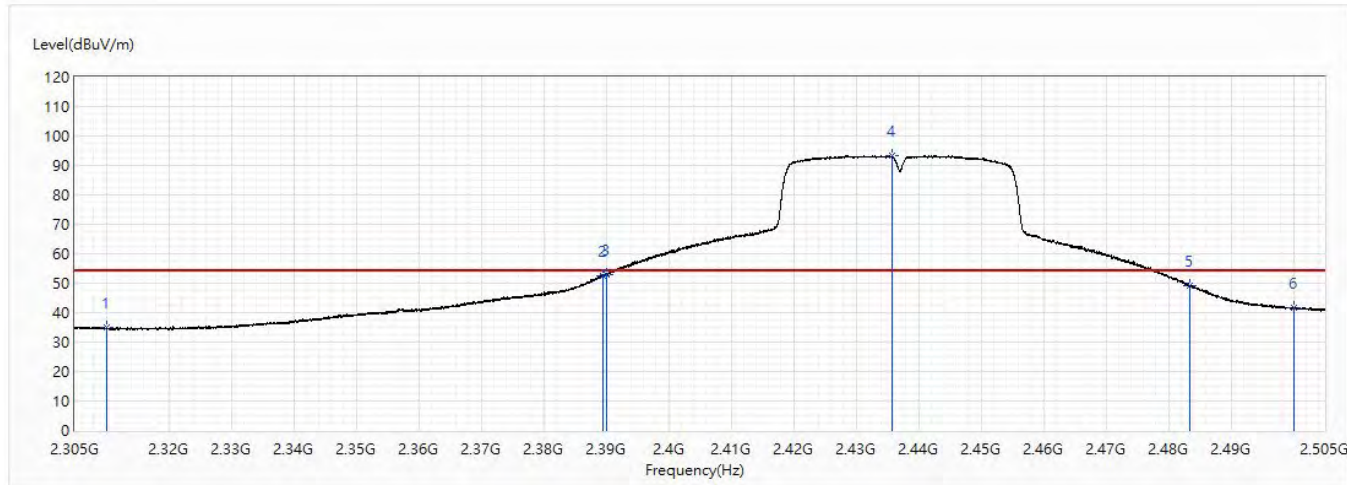


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	46.57	74.00	-27.43	32.22	14.35	PK
2	2389.6	71.83	74.00	-2.17	56.94	14.89	PK
3	2390	69.31	74.00	-4.69	54.42	14.89	PK
! 4	2433.45	104.30	74.00	30.30	89.11	15.19	PK
5	2483.5	64.12	74.00	-9.88	48.58	15.54	PK
6	2500	52.69	74.00	-21.31	37.04	15.65	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M)_2437MHz		

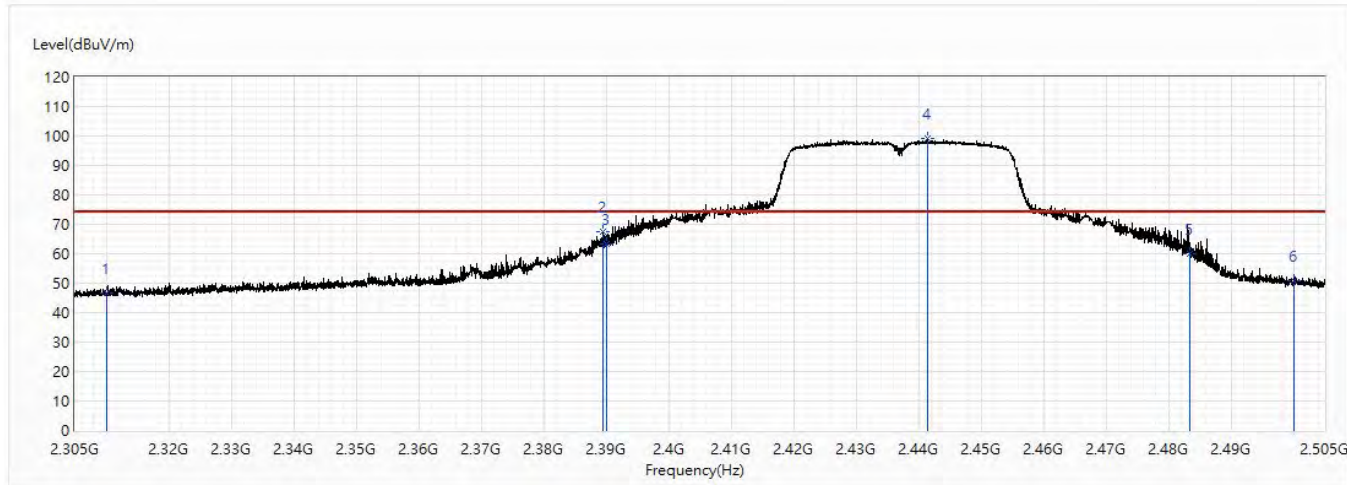


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	34.86	54.00	-19.14	20.51	14.35	AV
2	2389.45	52.35	54.00	-1.65	37.46	14.89	AV
3	2390	52.93	54.00	-1.07	38.04	14.89	AV
! 4	2435.75	93.36	54.00	39.36	78.14	15.22	AV
5	2483.5	49.08	54.00	-4.92	33.54	15.54	AV
6	2500	41.82	54.00	-12.18	26.17	15.65	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M)_2437MHz		

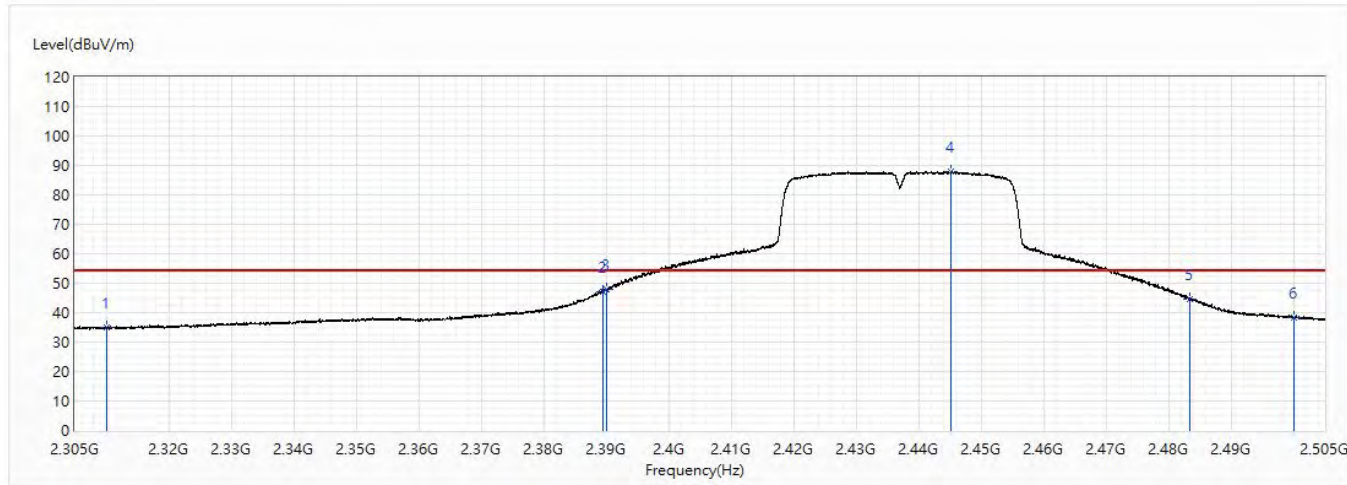


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	46.87	74.00	-27.13	32.52	14.35	PK
2	2389.475	67.59	74.00	-6.41	52.70	14.89	PK
3	2390	63.32	74.00	-10.68	48.43	14.89	PK
! 4	2441.375	99.11	74.00	25.11	83.86	15.25	PK
5	2483.5	60.00	74.00	-14.00	44.46	15.54	PK
6	2500	50.70	74.00	-23.30	35.05	15.65	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M)_2437MHz		

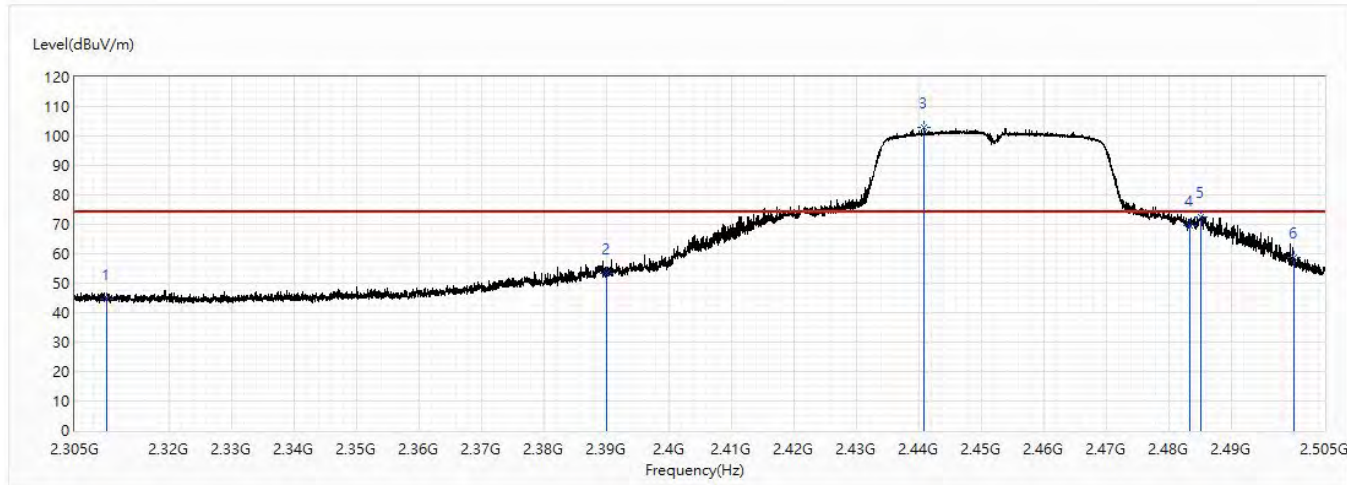


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	34.97	54.00	-19.03	20.62	14.35	AV
2	2389.5	47.00	54.00	-7.00	32.11	14.89	AV
3	2390	47.75	54.00	-6.25	32.86	14.89	AV
! 4	2445.125	87.86	54.00	33.86	72.59	15.27	AV
5	2483.5	44.62	54.00	-9.38	29.08	15.54	AV
6	2500	38.37	54.00	-15.63	22.72	15.65	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M) 2452MHz		

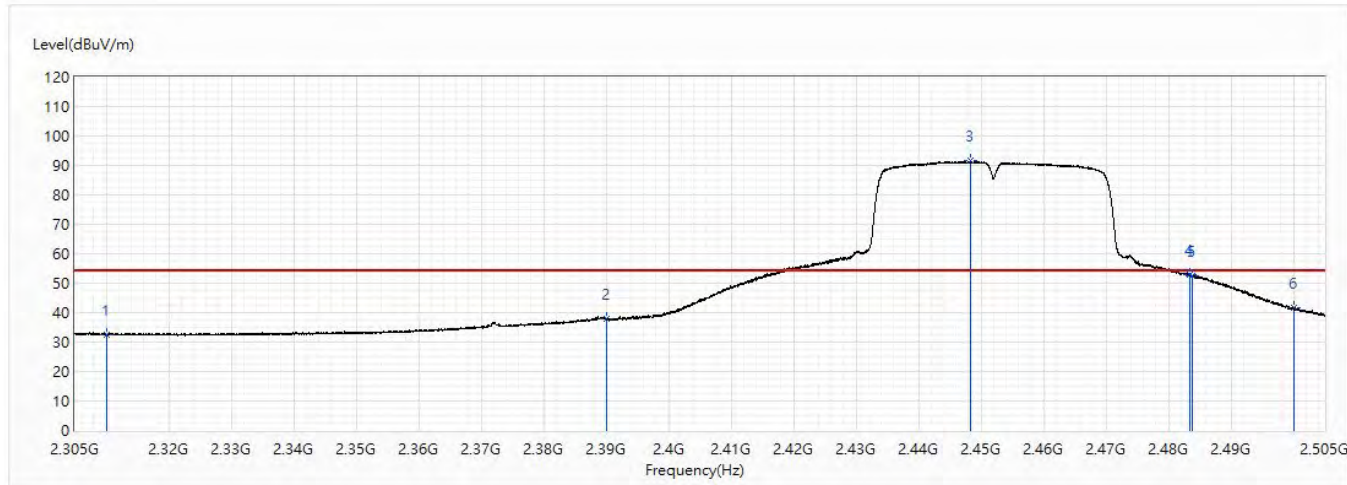


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.75	74.00	-29.25	30.40	14.35	PK
2	2390	53.37	74.00	-20.63	38.48	14.89	PK
! 3	2440.9	103.09	74.00	29.09	87.84	15.25	PK
4	2483.5	69.38	74.00	-4.62	53.84	15.54	PK
5	2485.225	72.62	74.00	-1.38	57.07	15.55	PK
6	2500	58.86	74.00	-15.14	43.21	15.65	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M)_2452MHz		

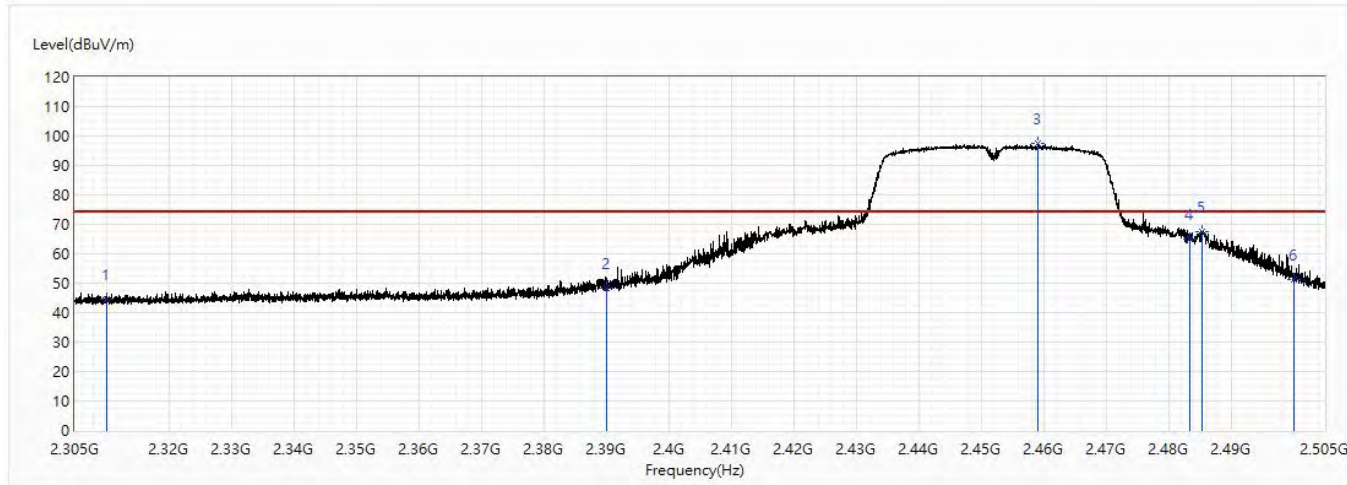


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.65	54.00	-21.35	18.30	14.35	AV
2	2390	37.90	54.00	-16.10	23.01	14.89	AV
! 3	2448.275	91.46	54.00	37.46	76.17	15.29	AV
4	2483.5	52.77	54.00	-1.23	37.23	15.54	AV
5	2483.775	52.32	54.00	-1.68	36.78	15.54	AV
6	2500	41.46	54.00	-12.54	25.81	15.65	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M) 2452MHz		

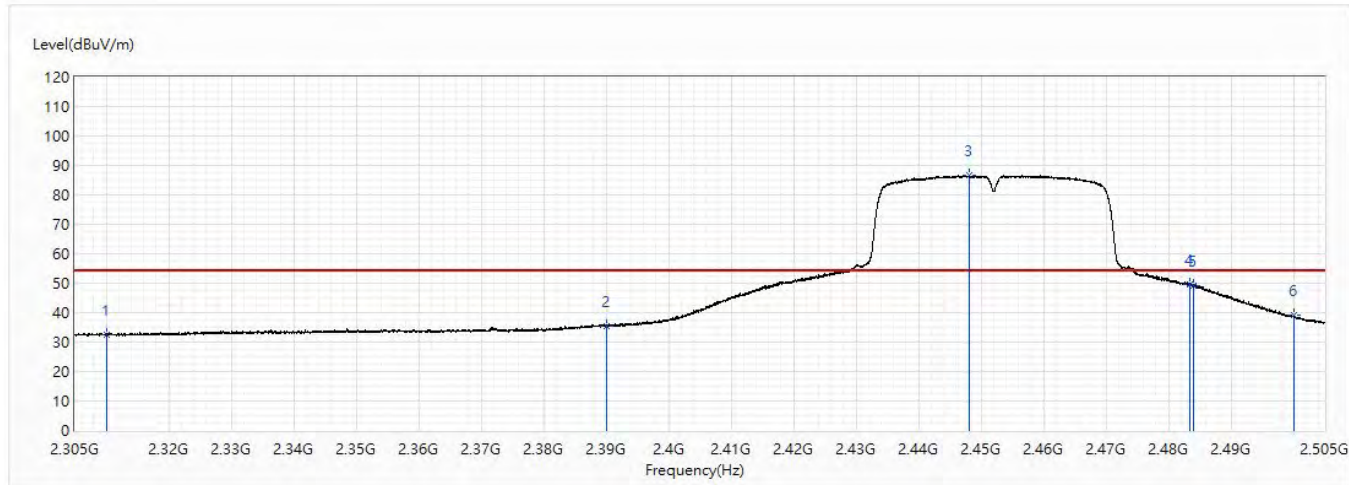


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.64	74.00	-29.36	30.29	14.35	PK
2	2390	48.40	74.00	-25.60	33.51	14.89	PK
! 3	2459.2	97.51	74.00	23.51	82.14	15.37	PK
4	2483.5	65.04	74.00	-8.96	49.50	15.54	PK
5	2485.4	67.47	74.00	-6.53	51.92	15.55	PK
6	2500	51.43	74.00	-22.57	35.78	15.65	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	EW-7811GLN 2.0A	Test Date :	2019/7/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode	Mode 1: Transmit		
Note :	802.11n (40M)_2452MHz		



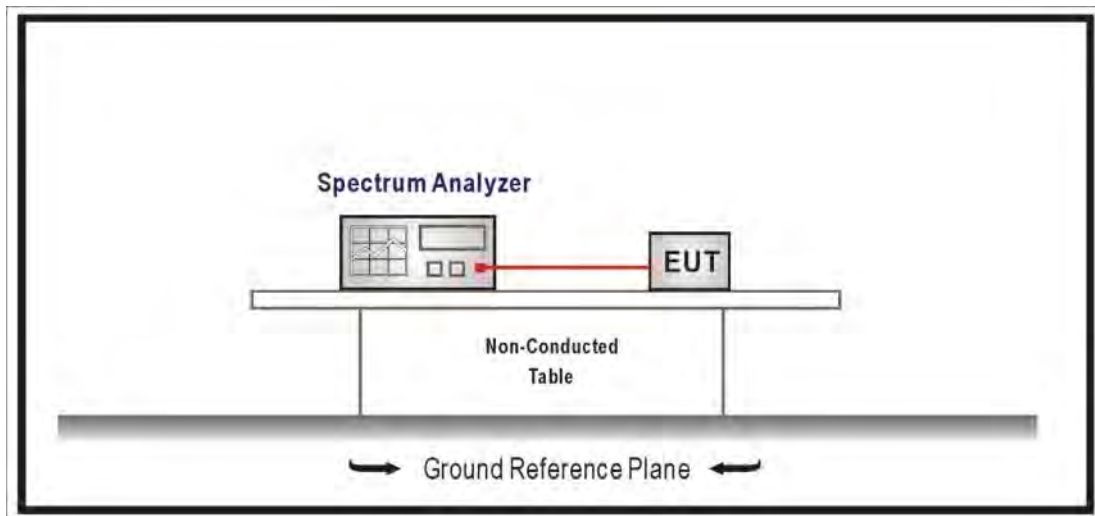
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.48	54.00	-21.52	18.13	14.35	AV
2	2390	35.61	54.00	-18.39	20.72	14.89	AV
! 3	2448.075	86.49	54.00	32.49	71.20	15.29	AV
4	2483.5	49.49	54.00	-4.51	33.95	15.54	AV
5	2483.925	49.09	54.00	-4.91	33.55	15.54	AV
6	2500	39.08	54.00	-14.92	23.43	15.65	AV

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it's not restricted by unwanted emission limit.

7. DTS Bandwidth

7.1. Test Setup



7.2. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested procedure of KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100KHz, Set the VBW $\geq 3 \times$ RBW, Sweep Time=Auto, Set Peak Detector.

7.3. Limits

The 6 dB bandwidth must be greater than 500 kHz.

7.4. Test Specification

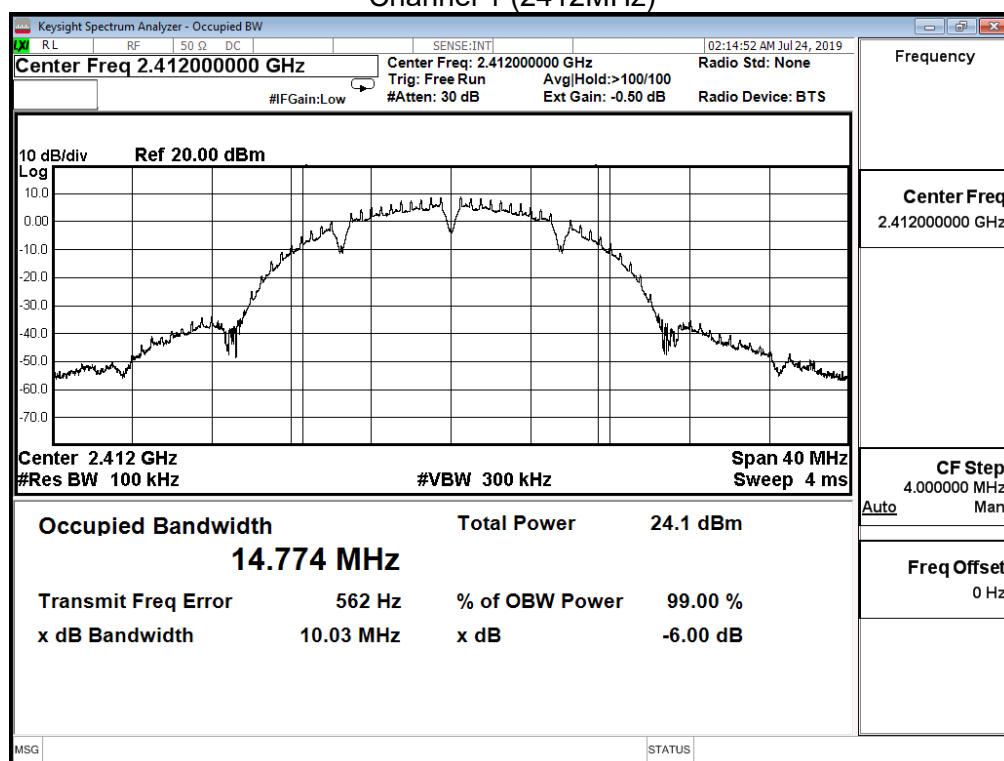
According to FCC Part 15 Subpart C Paragraph 15.247: 2018

7.5. Test Result

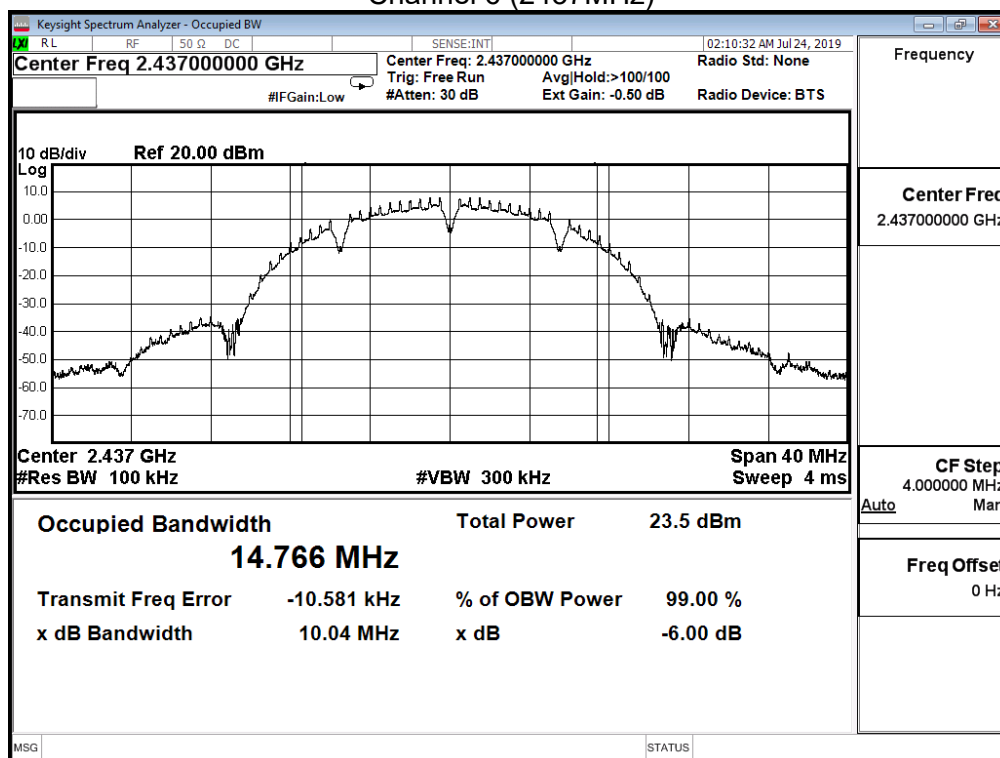
Product	N150 Wi-Fi Nano USB Adapter		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2019/07/24	Test Site	SR10-H

802.11b (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	10.030	≥ 0.5	Pass
6	2437	10.040	≥ 0.5	Pass
11	2462	10.500	≥ 0.5	Pass

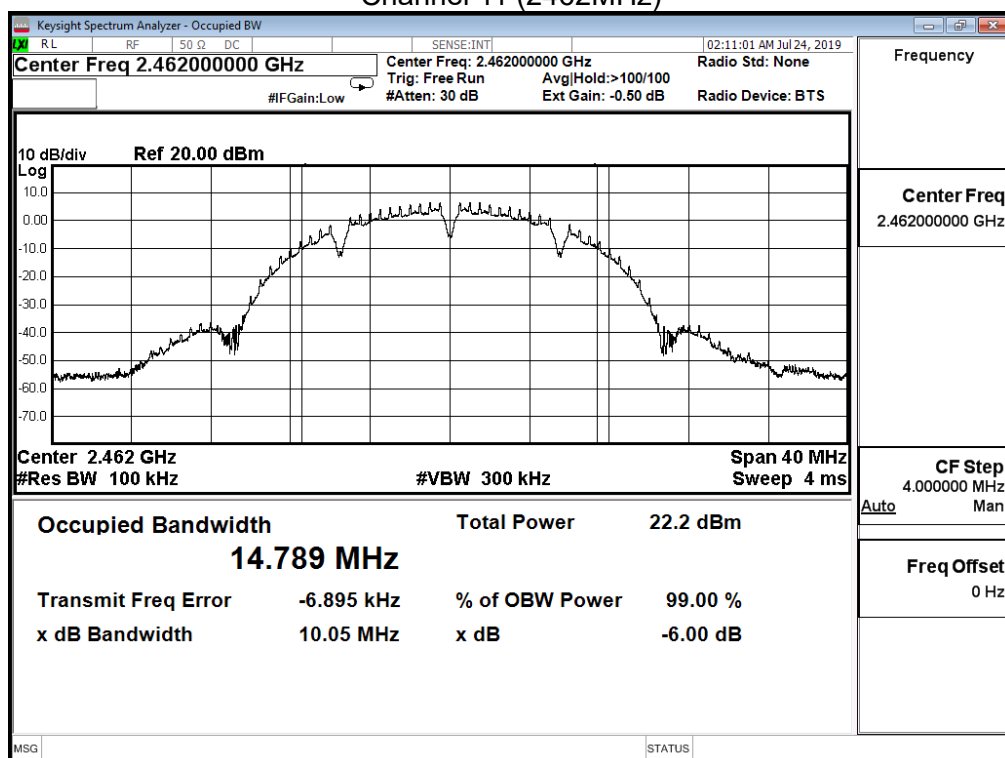
Channel 1 (2412MHz)



Channel 6 (2437MHz)



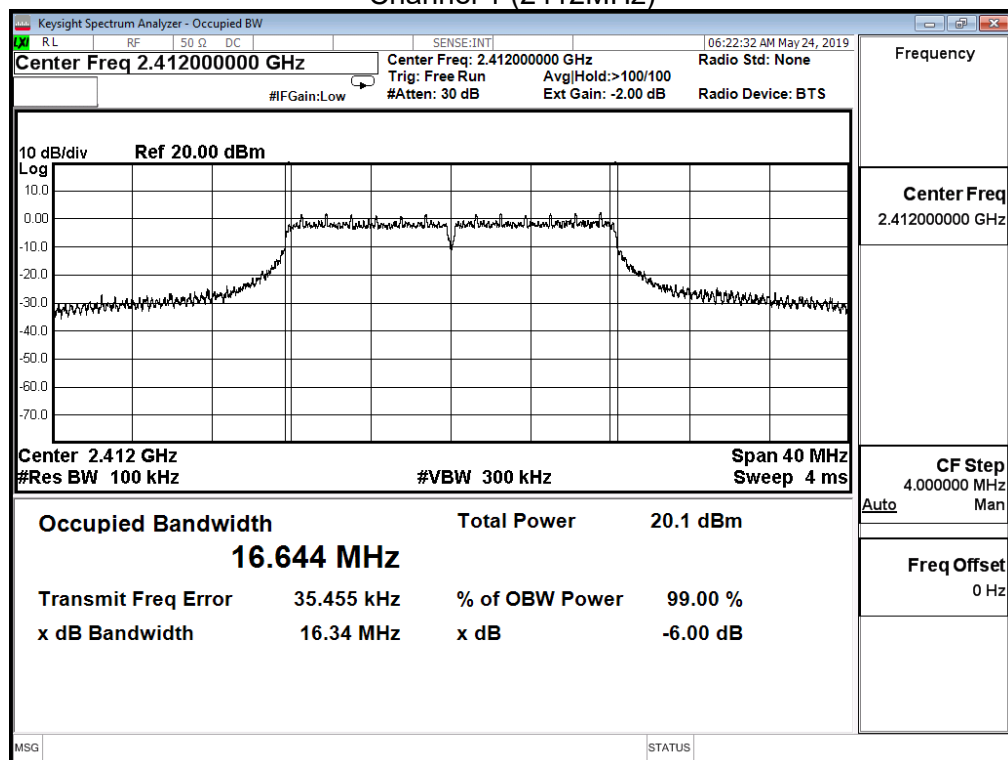
Channel 11 (2462MHz)



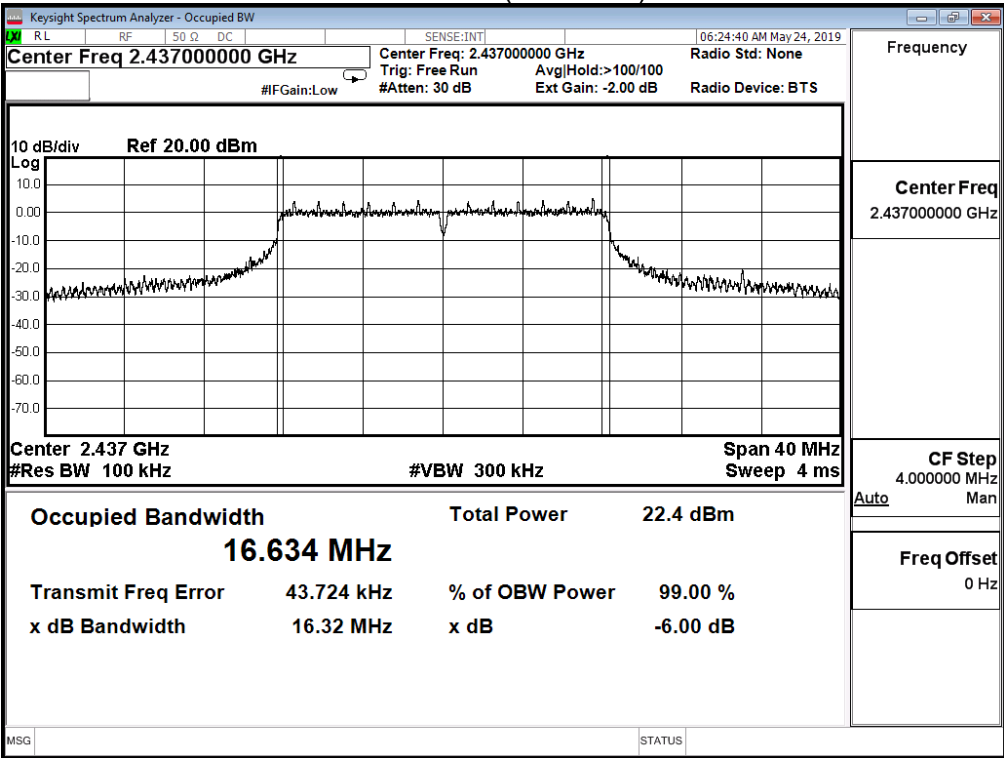
Product	N150 Wi-Fi Nano USB Adapter		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2019/05/24	Test Site	SR10-H

802.11g (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	16.340	≥ 0.5	Pass
6	2437	16.320	≥ 0.5	Pass
11	2462	16.350	≥ 0.5	Pass

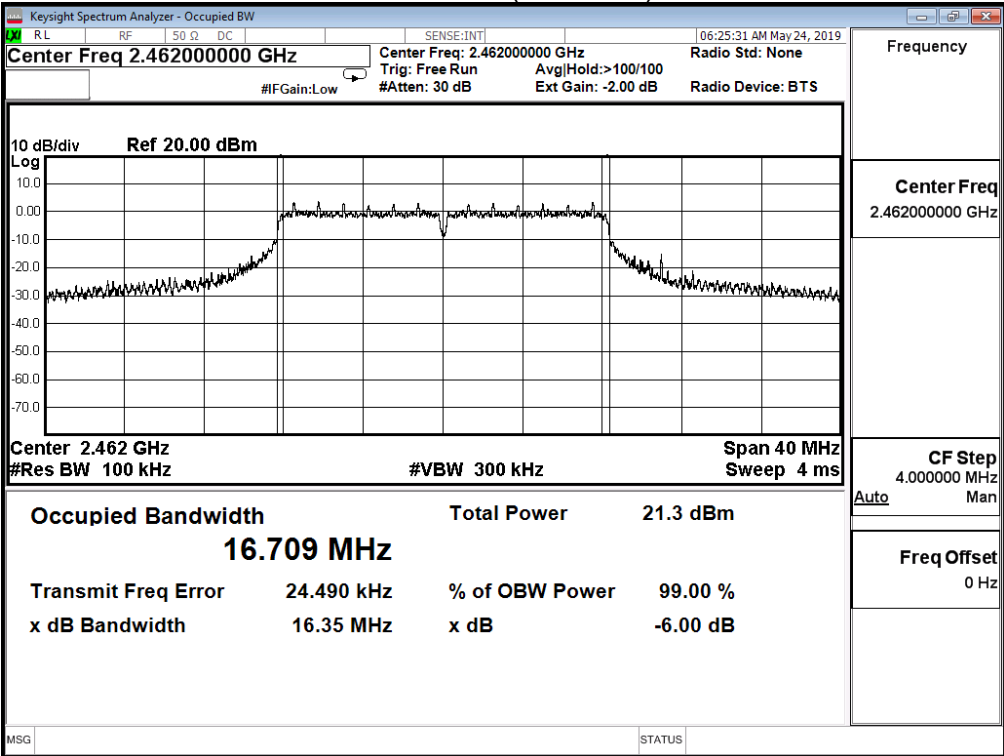
Channel 1 (2412MHz)



Channel 6 (2437MHz)



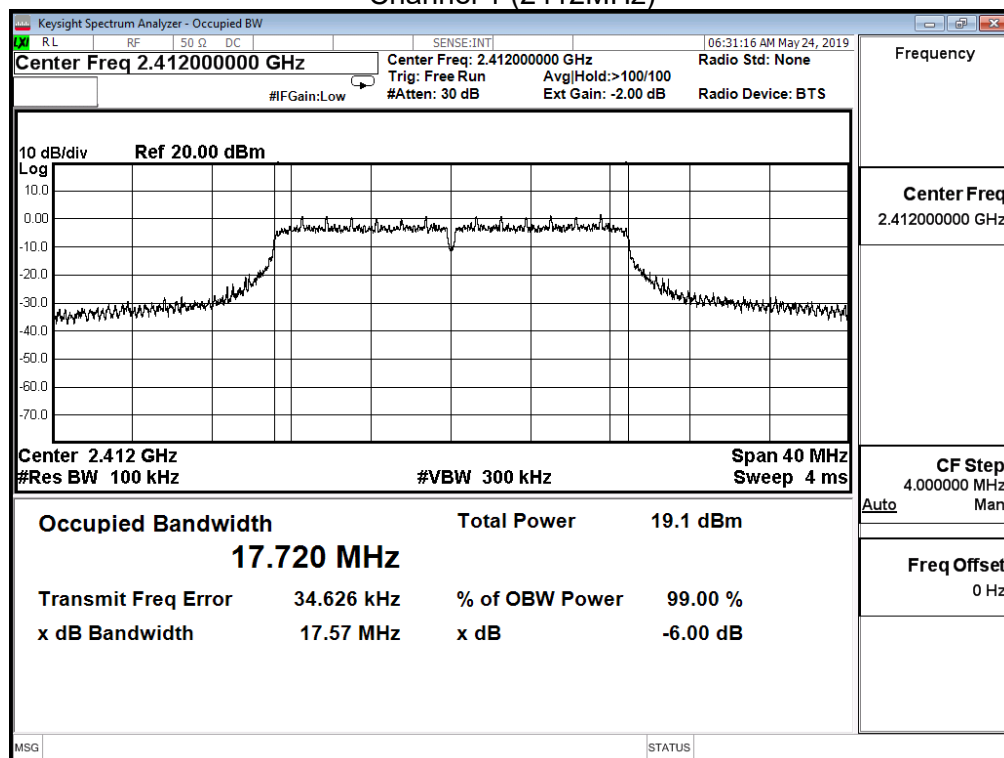
Channel 11 (2462MHz)



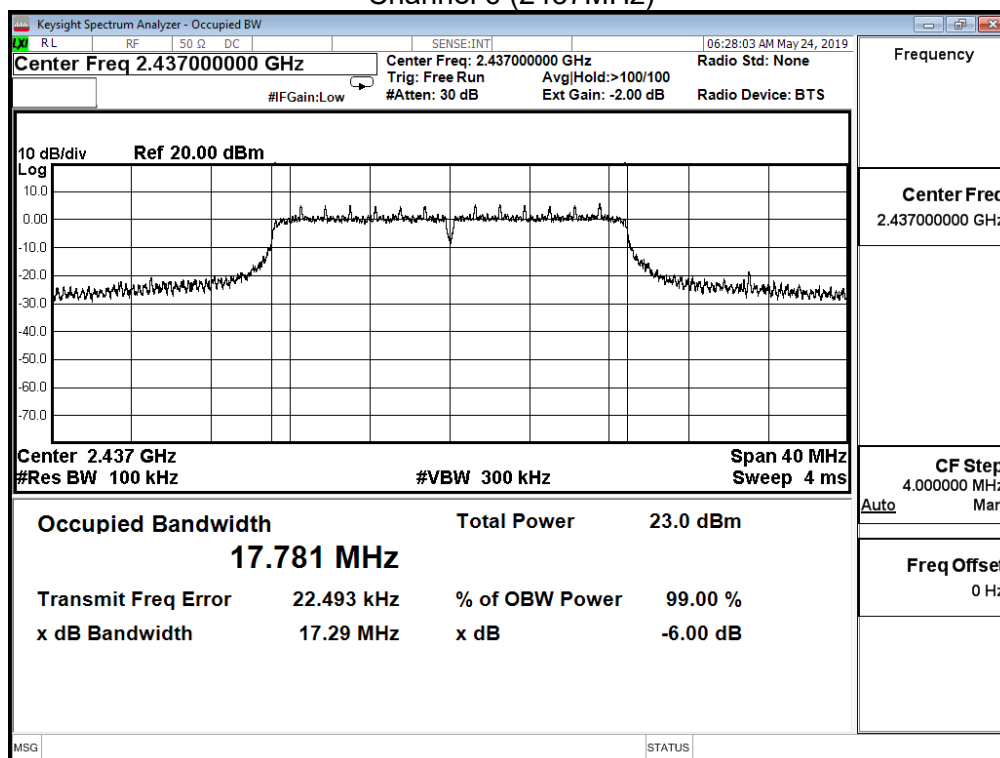
Product	N150 Wi-Fi Nano USB Adapter		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2019/05/24	Test Site	SR10-H

IEEE 802.11n (20M) (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	17.570	≥ 0.5	Pass
6	2437	17.290	≥ 0.5	Pass
11	2462	17.570	≥ 0.5	Pass

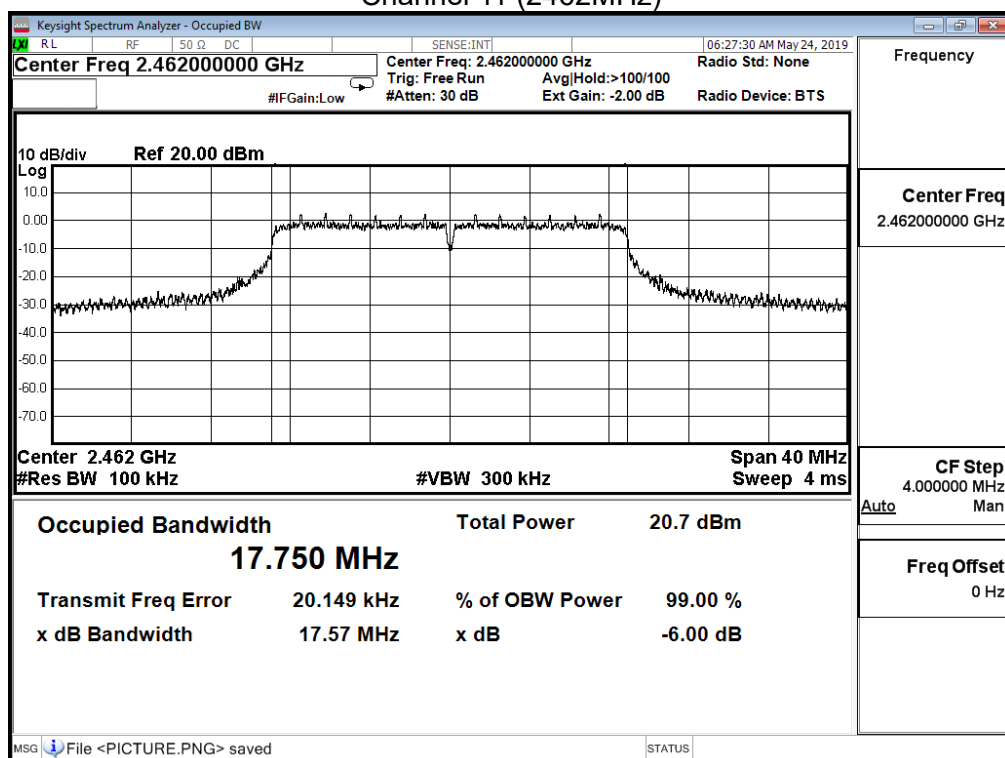
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

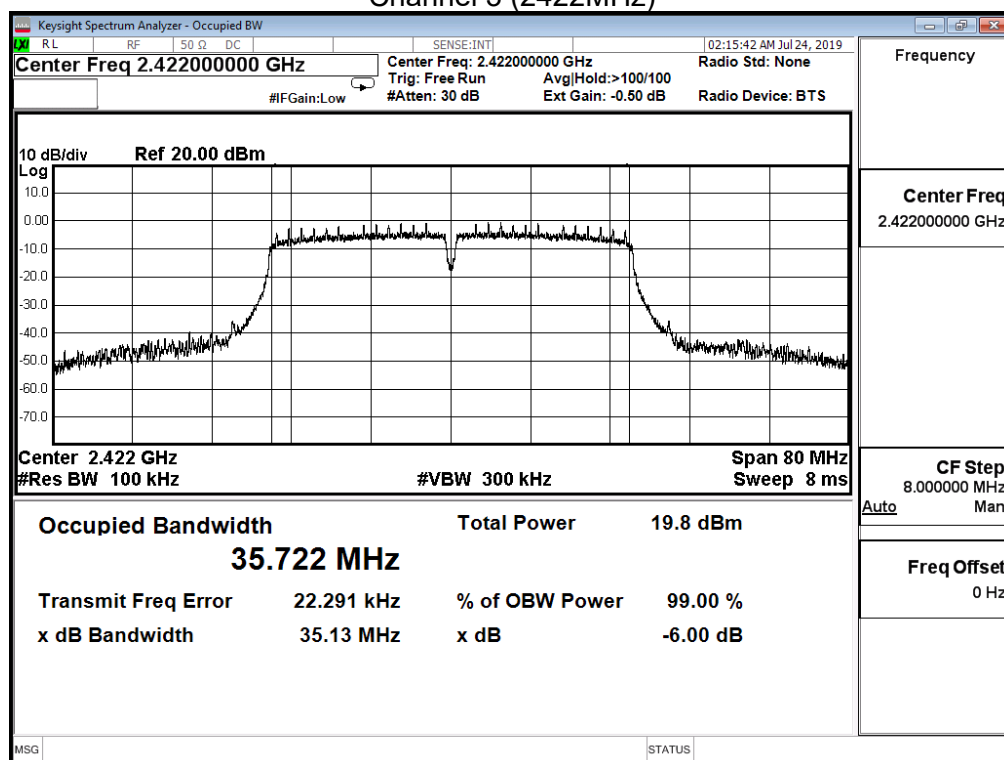


Product	N150 Wi-Fi Nano USB Adapter		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2019/07/24	Test Site	SR10-H

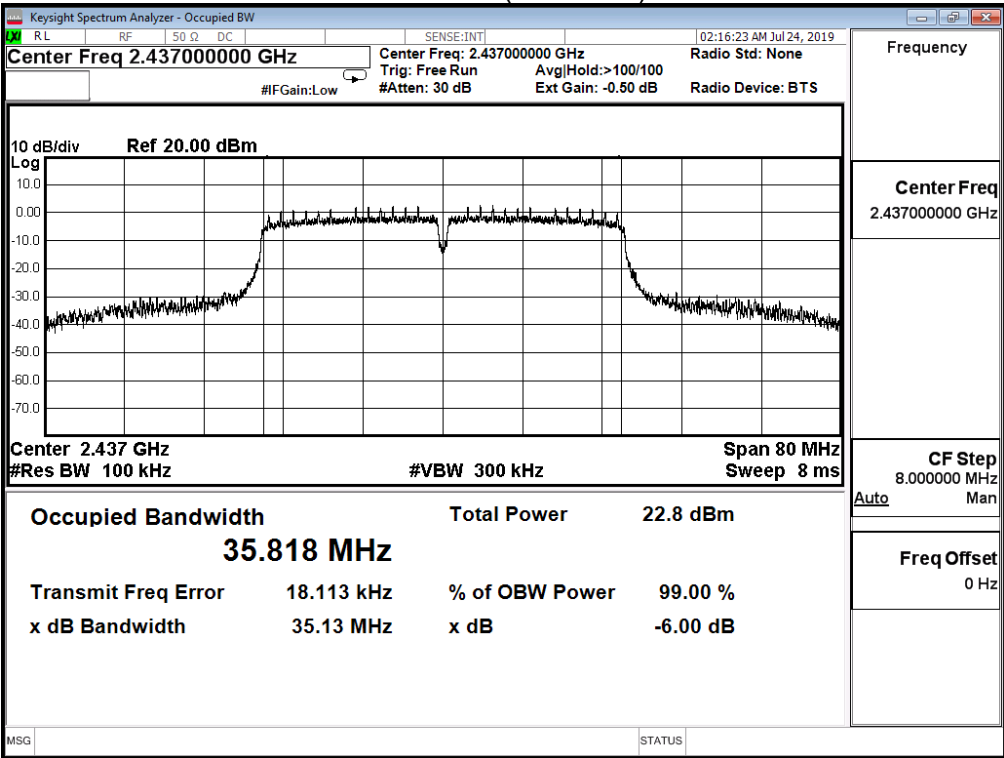
IEEE 802.11n (40M) (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
3	2422	35.130	≥ 0.5	Pass
6	2437	35.130	≥ 0.5	Pass
9	2452	35.110	≥ 0.5	Pass

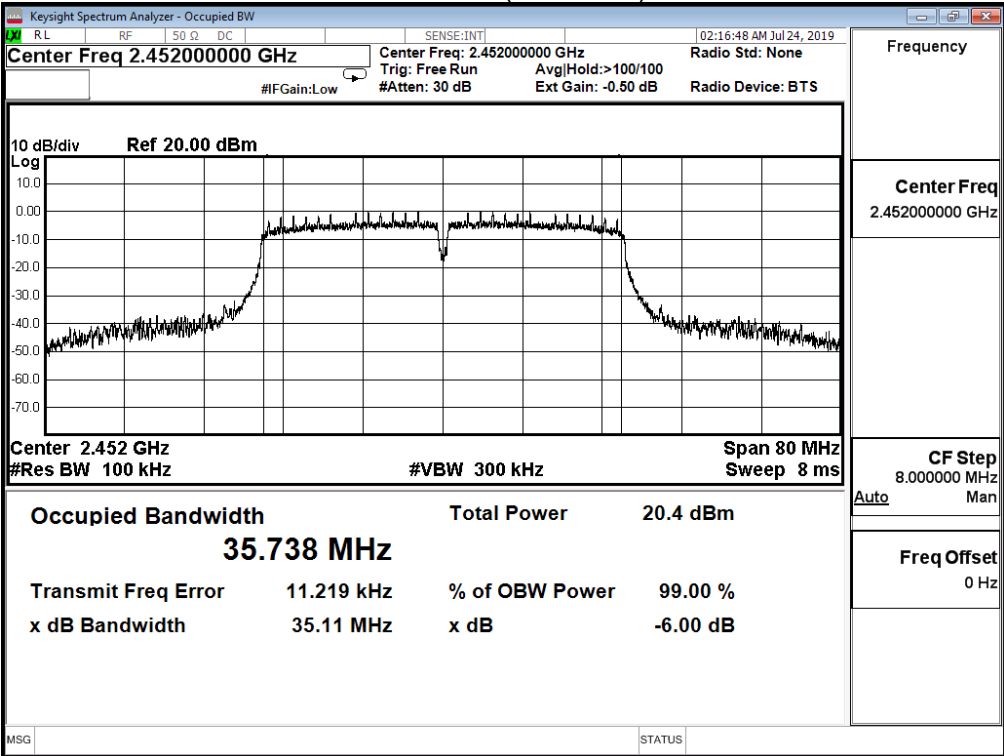
Channel 3 (2422MHz)



Channel 6 (2437MHz)

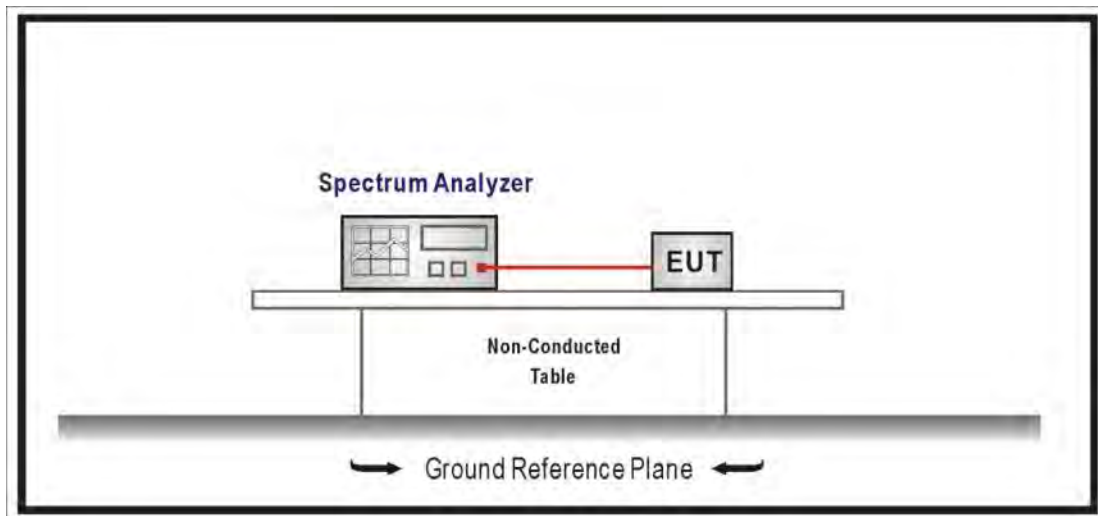


Channel 9 (2452MHz)



8. Occupied Bandwidth

8.1. Test Setup



8.2. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074 D01 v05r02 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.

8.3. Limits

N/A

8.4. Test Specification

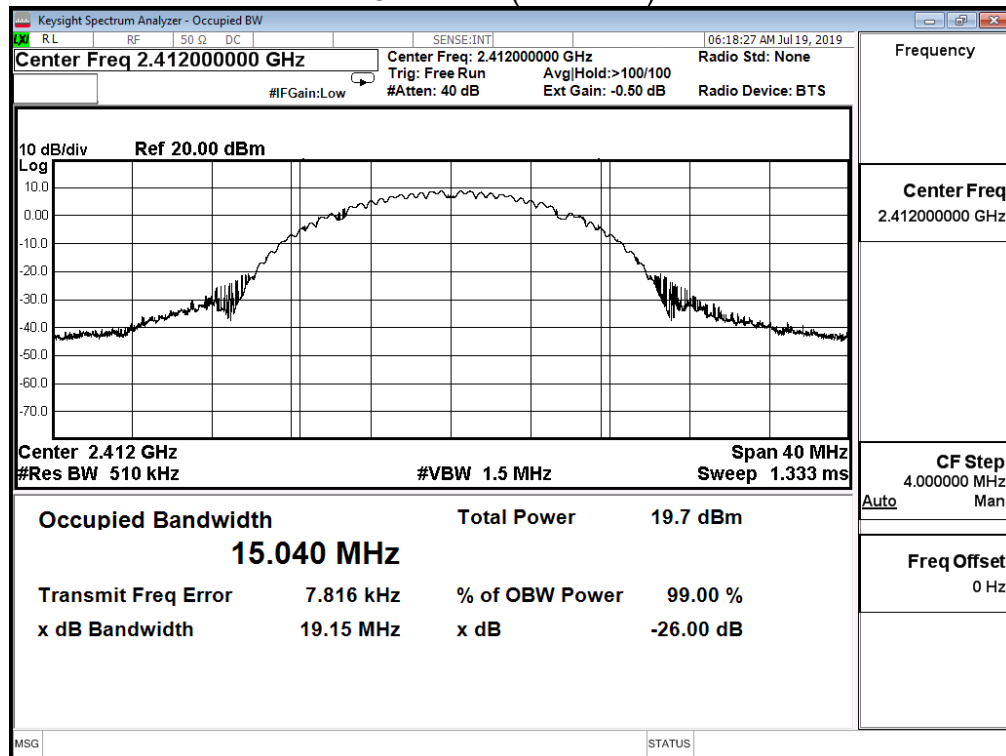
According to FCC Part 15 Subpart C Paragraph 15.247: 2018

8.5. Test Result

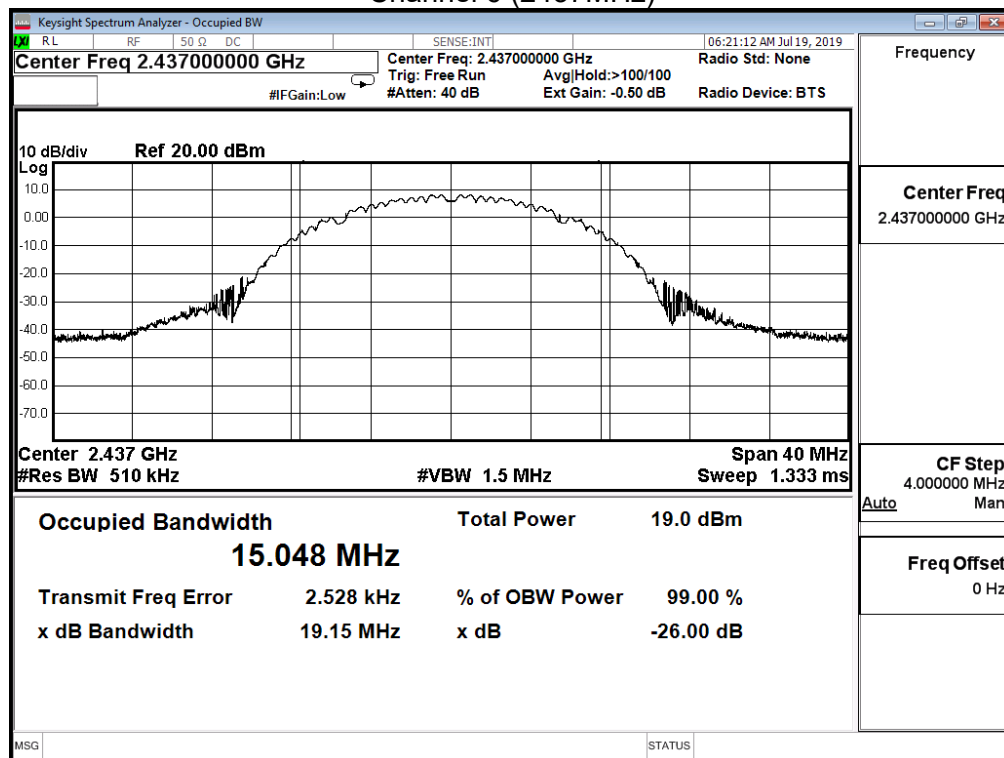
Product	N150 Wi-Fi Nano USB Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2019/07/19	Test Site	SR10-H

802.11b (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	15.040	---
6	2437	15.048	---
11	2462	15.042	---

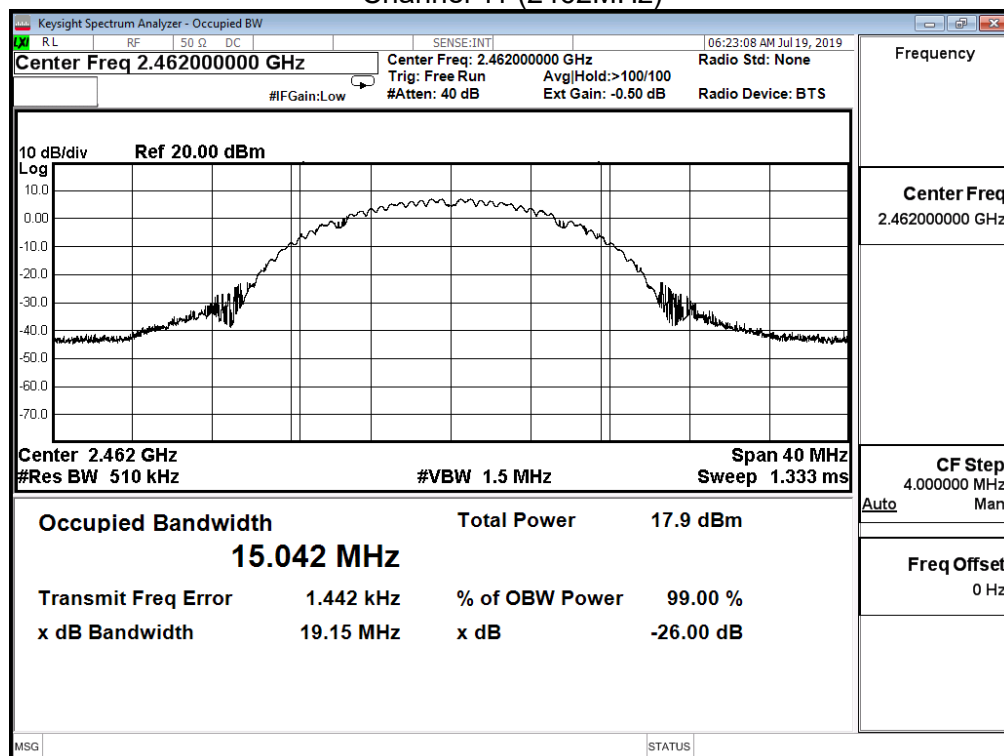
Channel 1 (2412MHz)



Channel 6 (2437MHz)



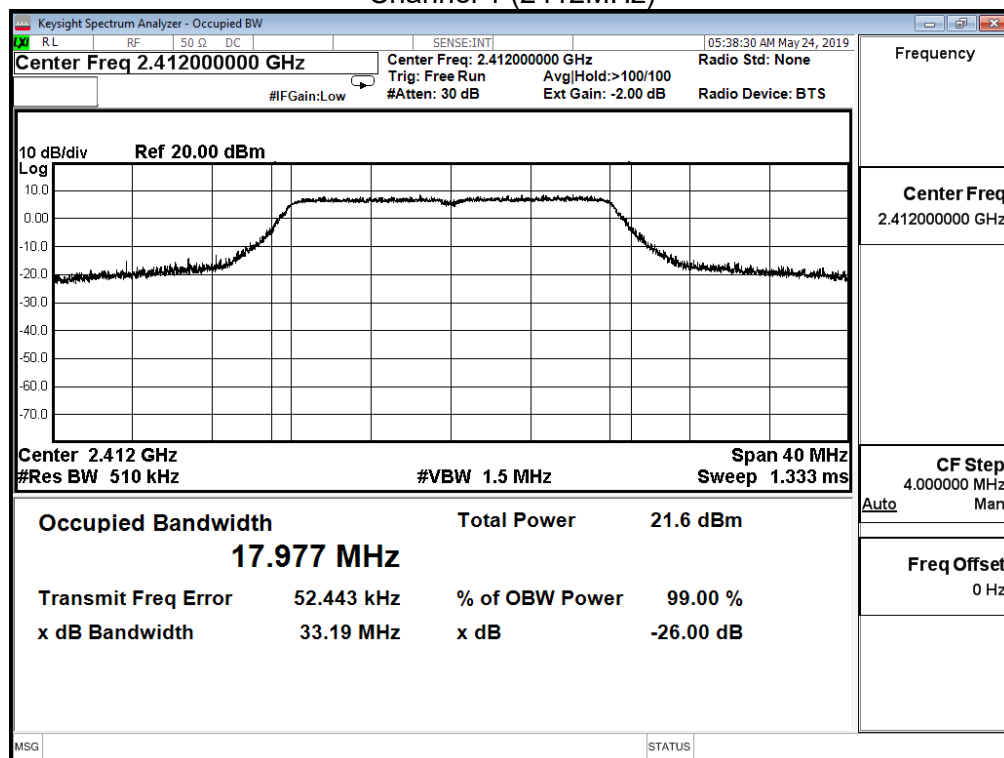
Channel 11 (2462MHz)



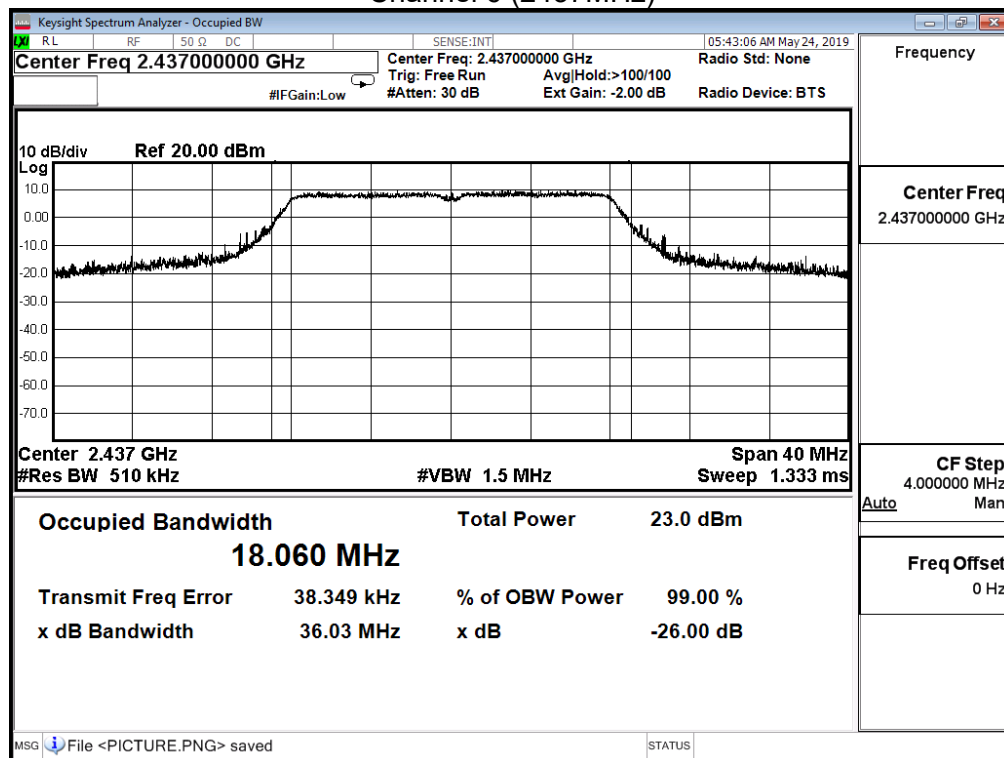
Product	N150 Wi-Fi Nano USB Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2019/05/24	Test Site	SR10-H

802.11g (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	17.977	---
6	2437	18.060	---
11	2462	18.474	---

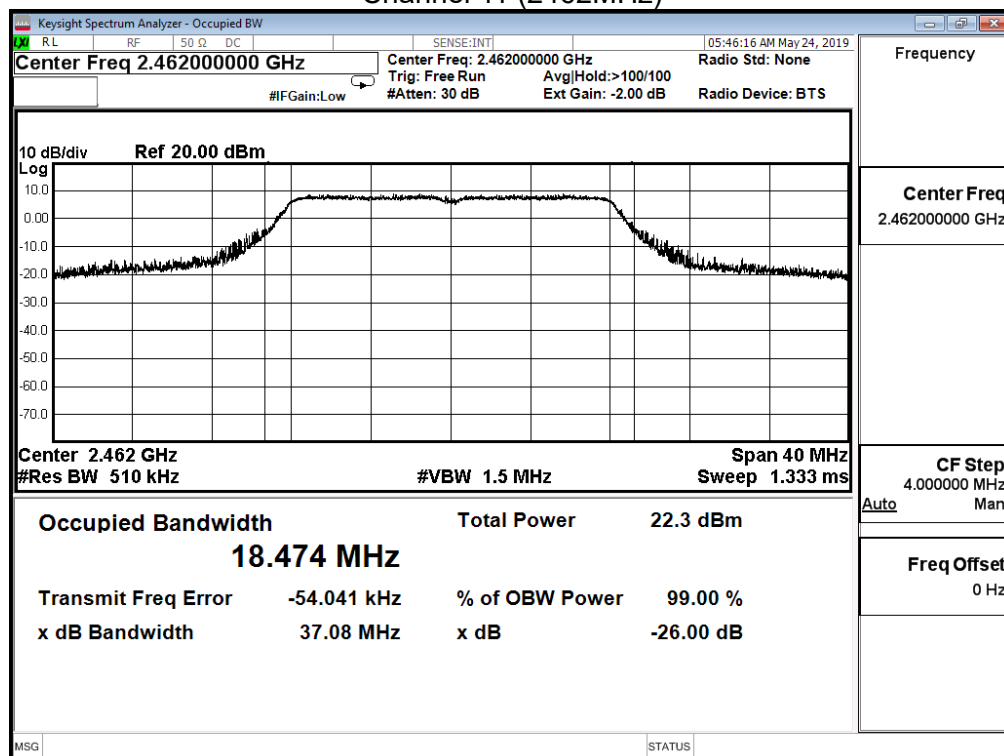
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

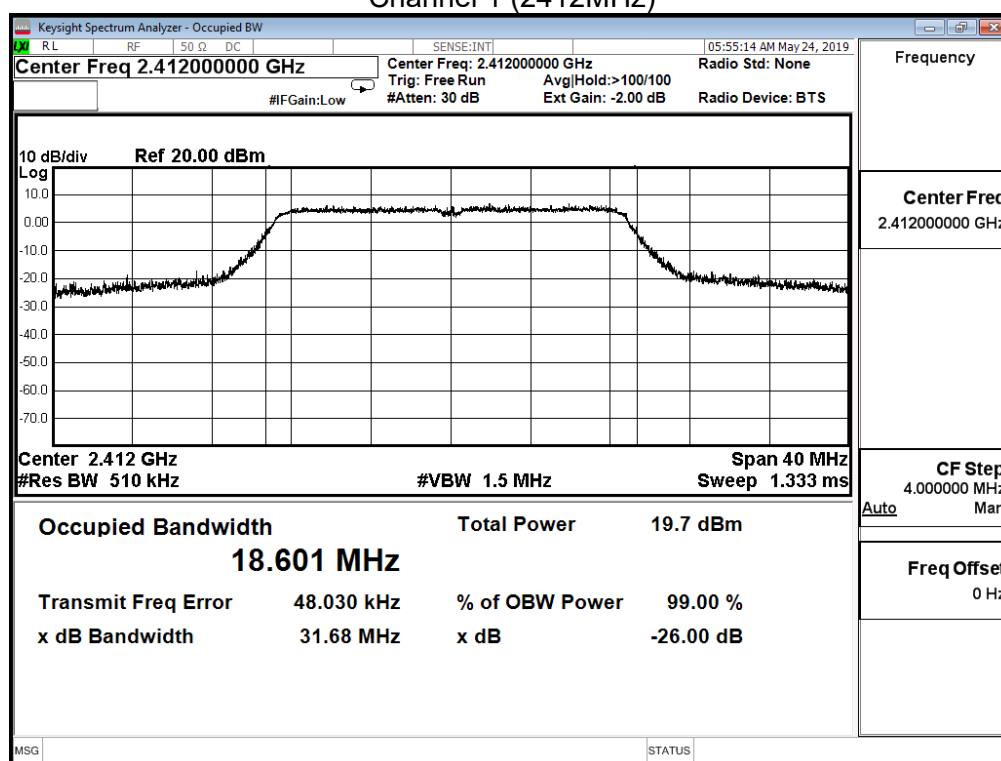


Product	N150 Wi-Fi Nano USB Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2019/05/24	Test Site	SR10-H

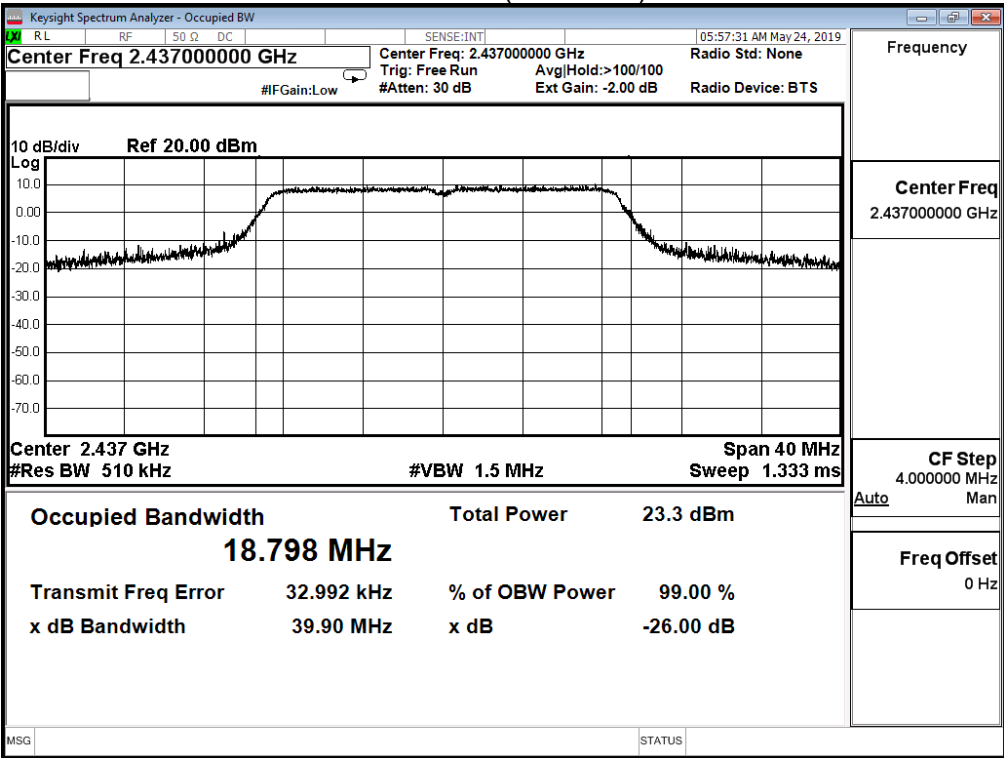
IEEE 802.11n (20M) (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	18.601	---
6	2437	18.798	---
11	2462	18.611	---

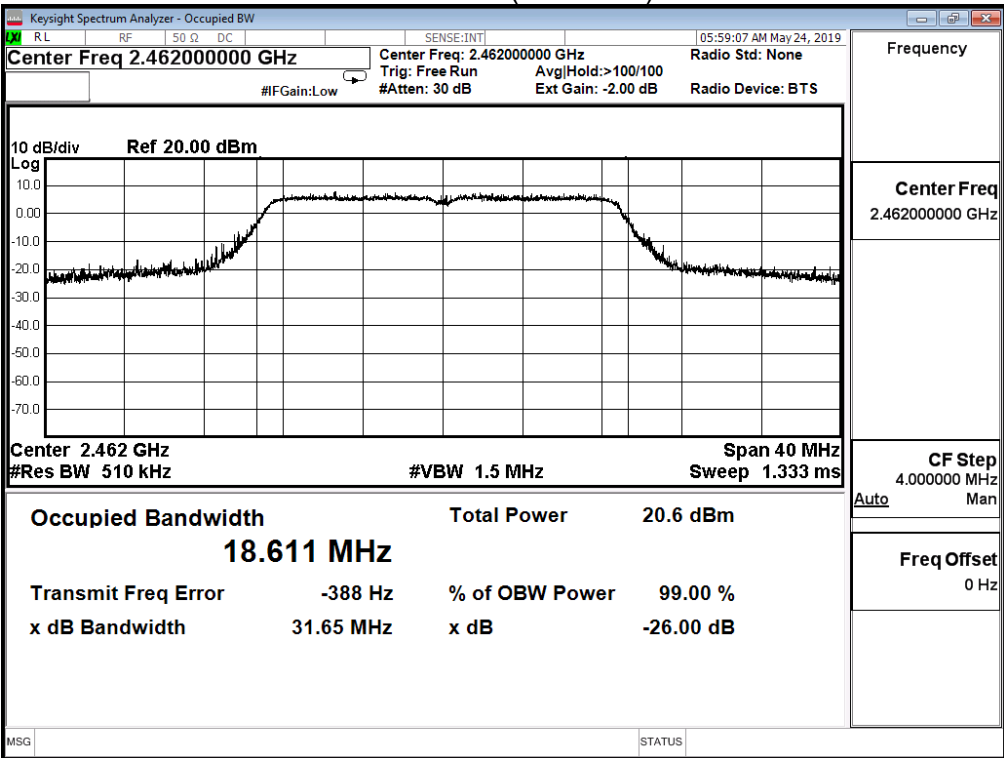
Channel 1 (2412MHz)



Channel 6 (2437MHz)



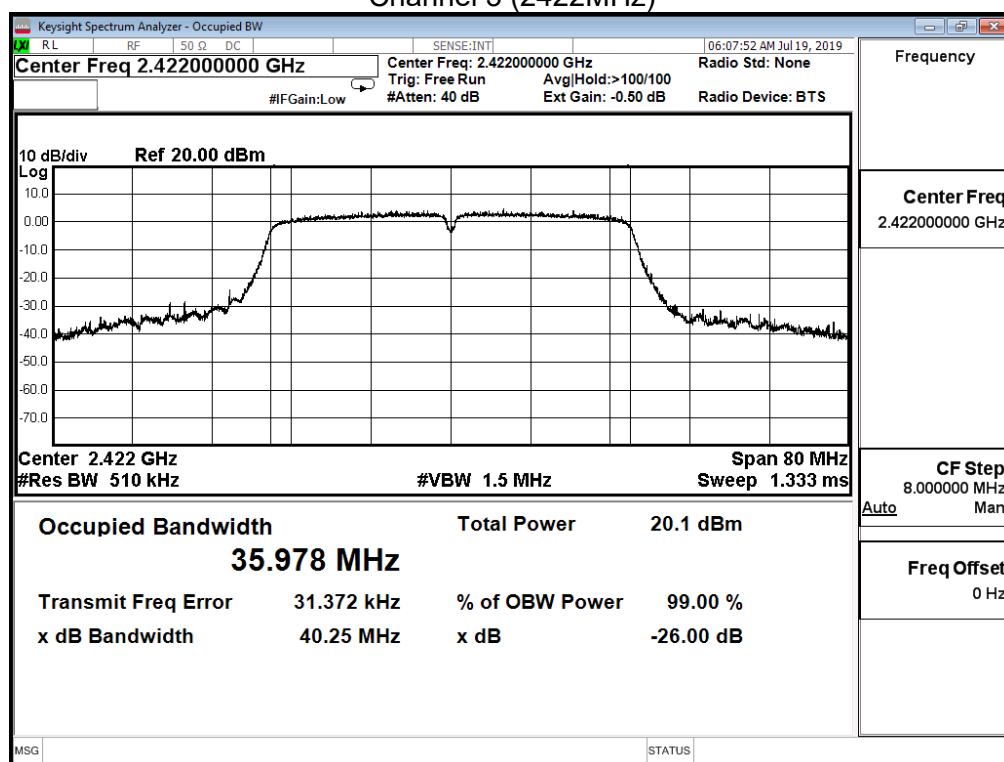
Channel 11 (2462MHz)



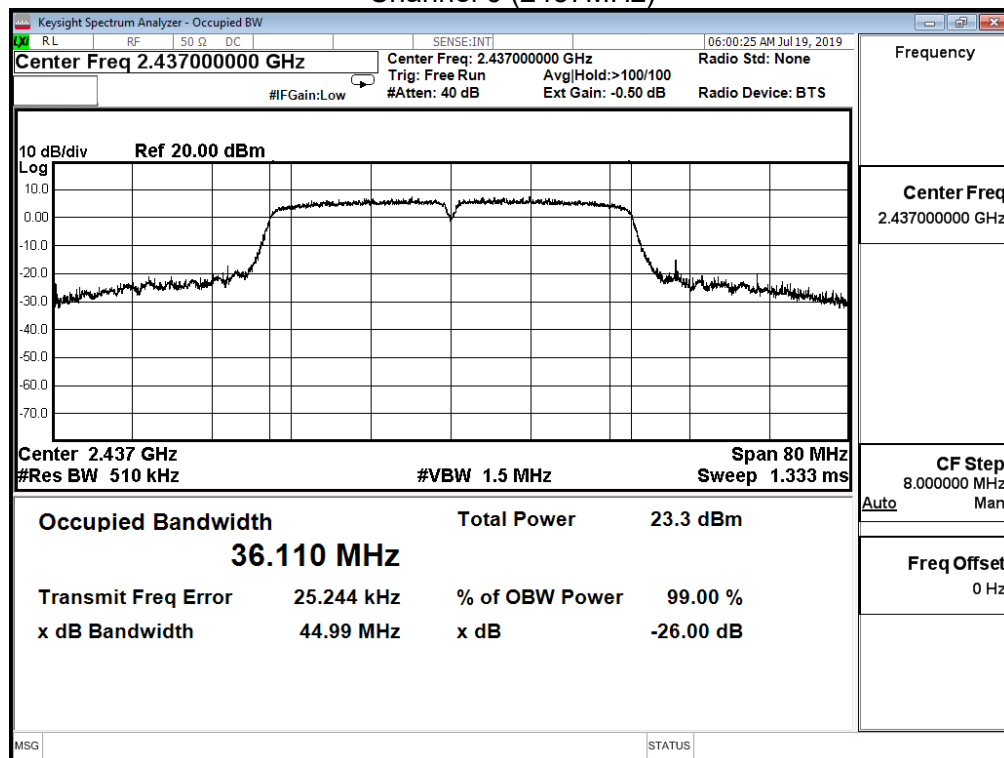
Product	N150 Wi-Fi Nano USB Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2019/07/19	Test Site	SR10-H

IEEE 802.11n (40M) (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
3	2422	35.978	---
6	2437	36.110	---
9	2452	36.001	---

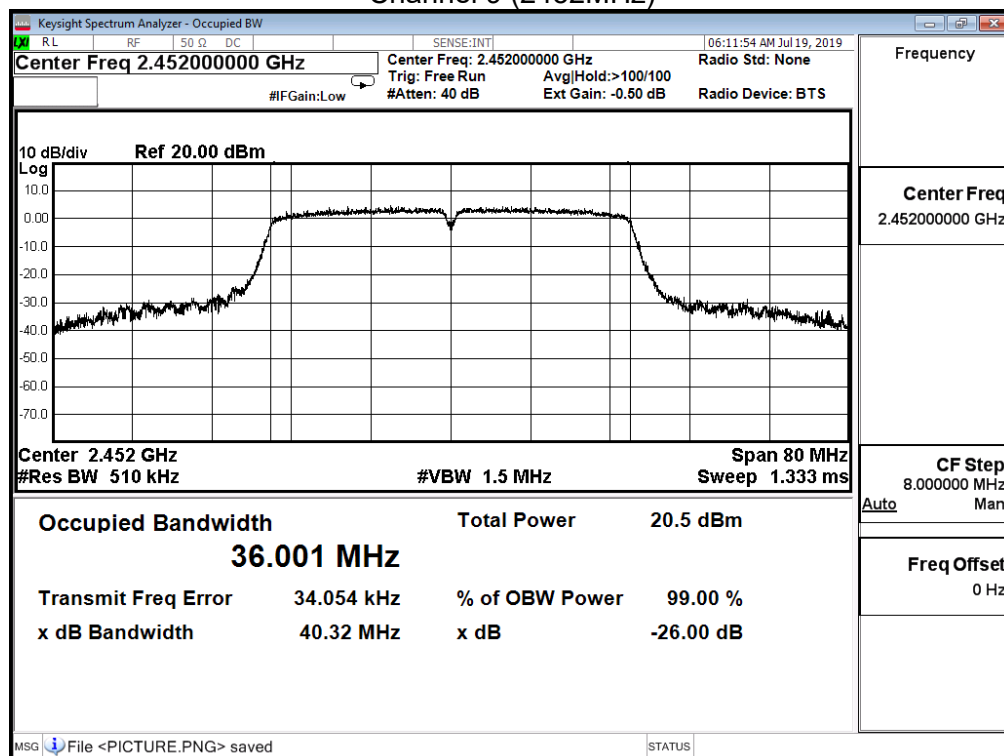
Channel 3 (2422MHz)



Channel 6 (2437MHz)

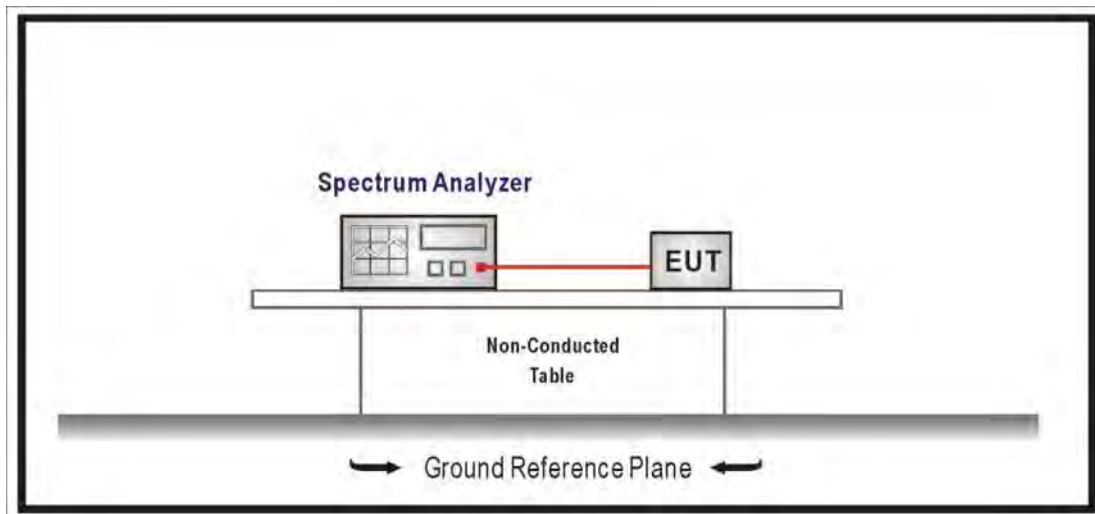


Channel 9 (2452MHz)



9. Power Density

9.1. Test Setup



9.2. 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.

9.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074 D01 v05r02 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.

9.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2018

9.5. Uncertainty

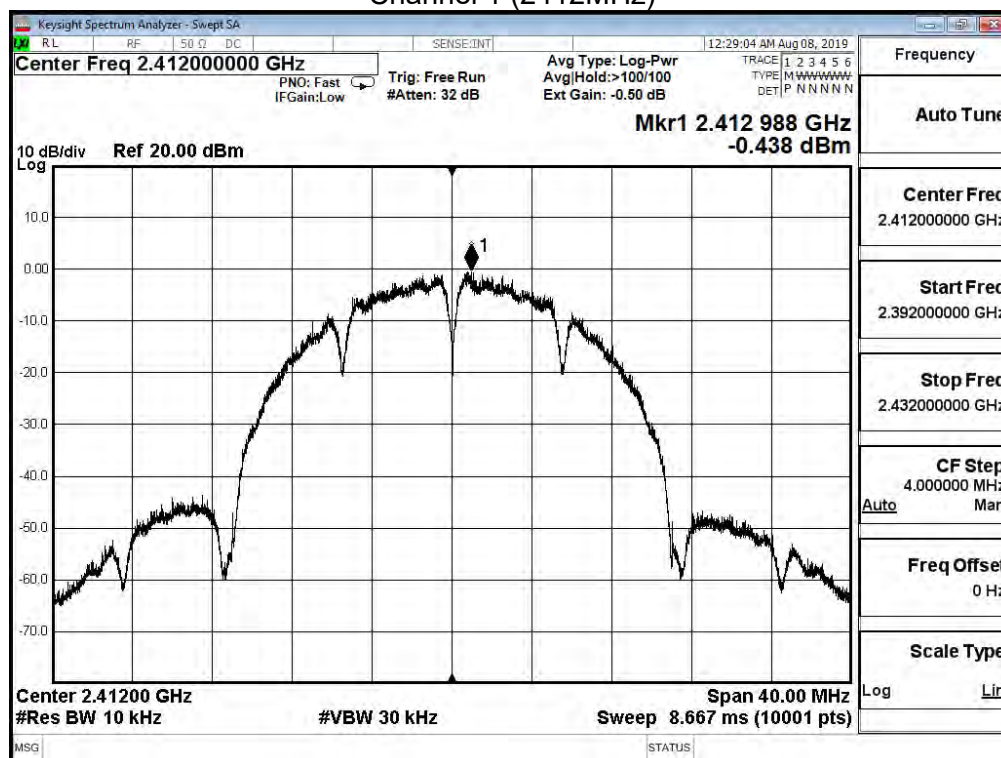
The measurement uncertainty is defined as ± 1.27 dB.

9.6. Test Result

Product	N150 Wi-Fi Nano USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2019/08/08	Test Site	SR10-H

IEEE 802.11b (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	2412	-0.438	≤ 8	Pass
6	2437	-0.494	≤ 8	Pass
11	2462	-1.969	≤ 8	Pass

Channel 1 (2412MHz)



Keysight Spectrum Analyzer - Swept SA

Channel: 0 (2.437 GHz)

RL RF 50 Ω DC SENSE: INT 12:21:55 AM Aug 08, 2019

Center Freq 2.43700000 GHz

PNO: Fast IF Gain: Low Trig: Free Run #Atten: 32 dB

Avg Type: Log-Pwr Avg/Hold: >100/100 Ext Gain: -0.50 dB

TRACE 1 2 3 4 5 6 TYPE: M M M M M M M M DET: P N N N N N

Mkr1 2.438 508 GHz -0.494 dBm

10 dB/div Ref 20.00 dBm

Log

Center 2.43700 GHz #Res BW 10 kHz #VBW 30 kHz Span 40.00 MHz Sweep 8.667 ms (10001 pts)

MSG File <PICTURE.PNG> saved STATUS

Frequency Auto Tune

Center Freq 2.437000000 GHz

Start Freq 2.417000000 GHz

Stop Freq 2.457000000 GHz

CF Step 4.000000 MHz

Auto Man

Freq Offset 0 Hz

Scale Type Log Lin

Keysight Spectrum Analyzer - Swept SA

Channel 1: 2.46200000 GHz

Center Freq 2.46200000 GHz

PNO: Fast IF Gain: Low

Trig: Free Run #Atten: 32 dB

Avg Type: Log-Pwr Avg/Hold: >100/100 Ext Gain: -0.50 dB

12:21:12 AM Aug 08, 2019

TRACE 1 2 3 4 5 6 TYPE M M M M M M M M DET P N N N N N

Mkr1 2.462 856 GHz -1.969 dBm

10 dB/div Log Ref 20.00 dBm

Center 2.46200 GHz #Res BW 10 kHz #VBW 30 kHz Sweep 8.667 ms (10001 pts)

Span 40.00 MHz

Frequency

Auto Tune

Center Freq 2.462000000 GHz

Start Freq 2.442000000 GHz

Stop Freq 2.482000000 GHz

CF Step 4.000000 MHz

Auto

Freq Offset 0 Hz

Scale Type

Log

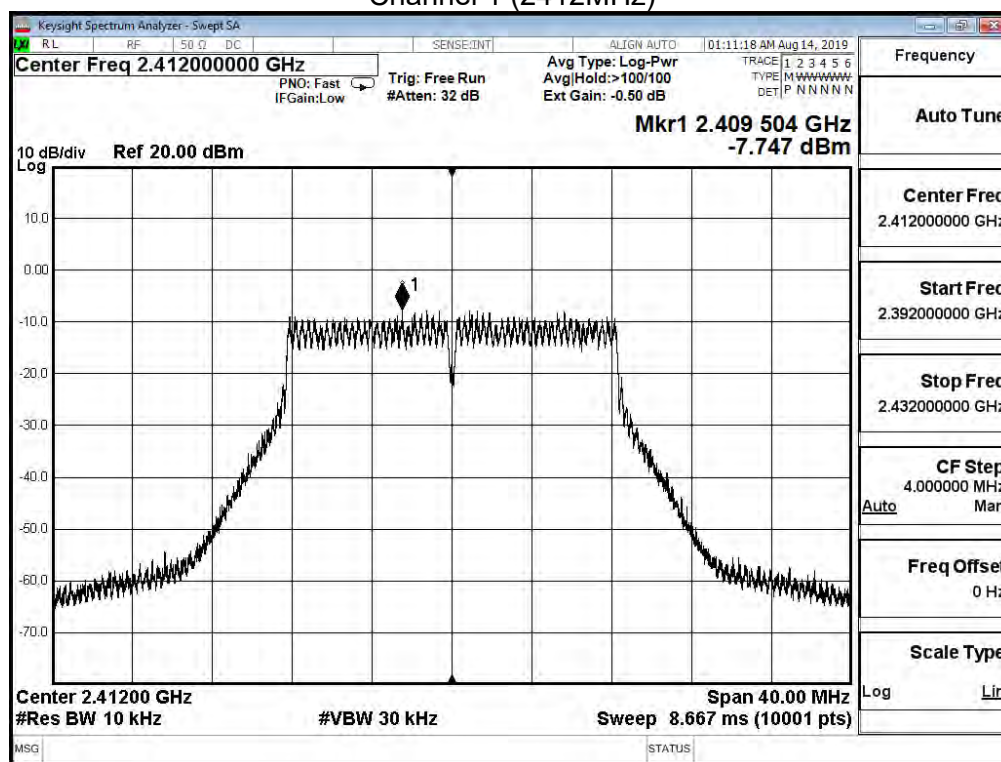
MSG STATUS

Product	N150 Wi-Fi Nano USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2019/08/14	Test Site	SR10-H

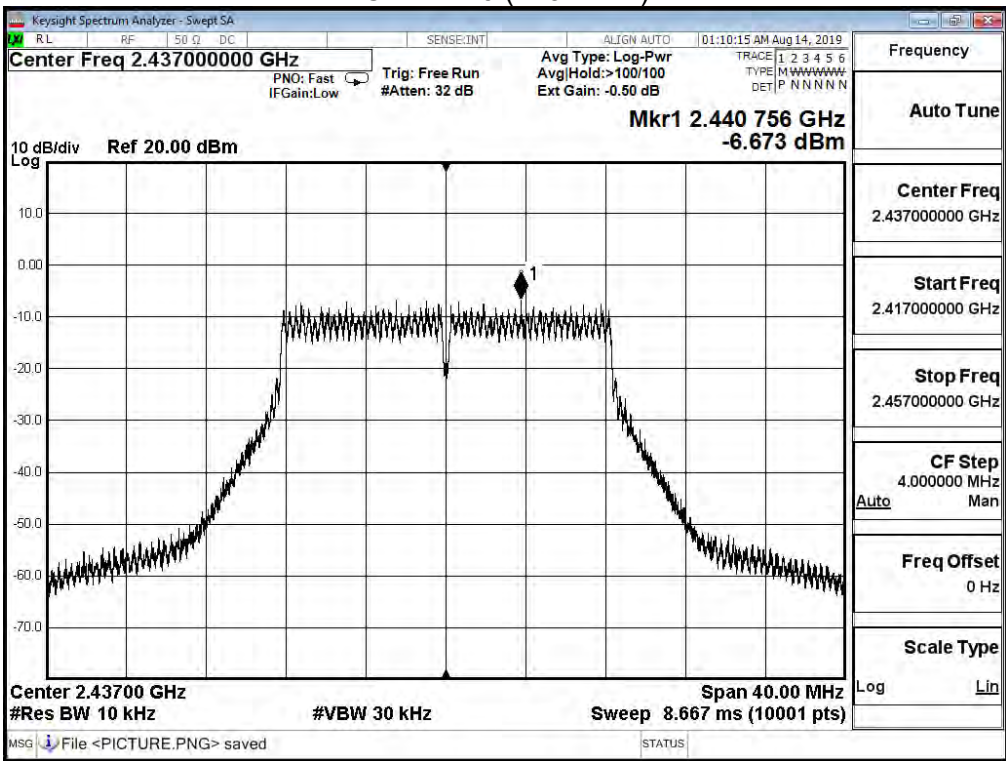
IEEE 802.11g (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	2412	-7.747	≤ 8	Pass
6	2437	-6.673	≤ 8	Pass
11	2462	-7.466	≤ 8	Pass

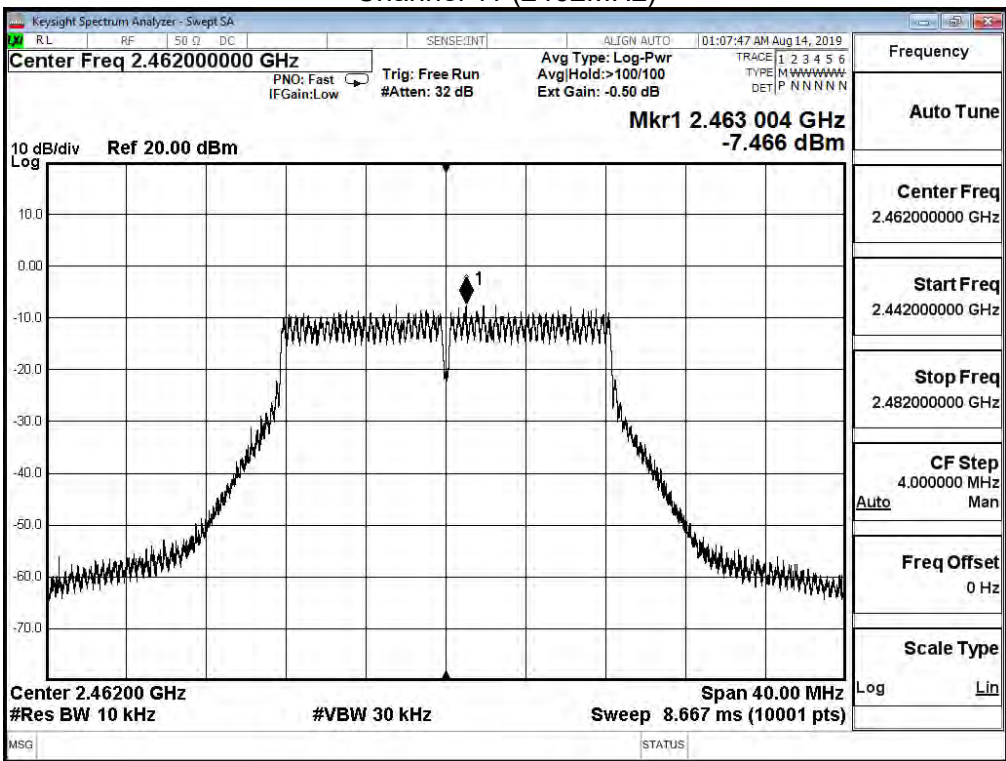
Channel 1 (2412MHz)



Channel 6 (2437MHz)



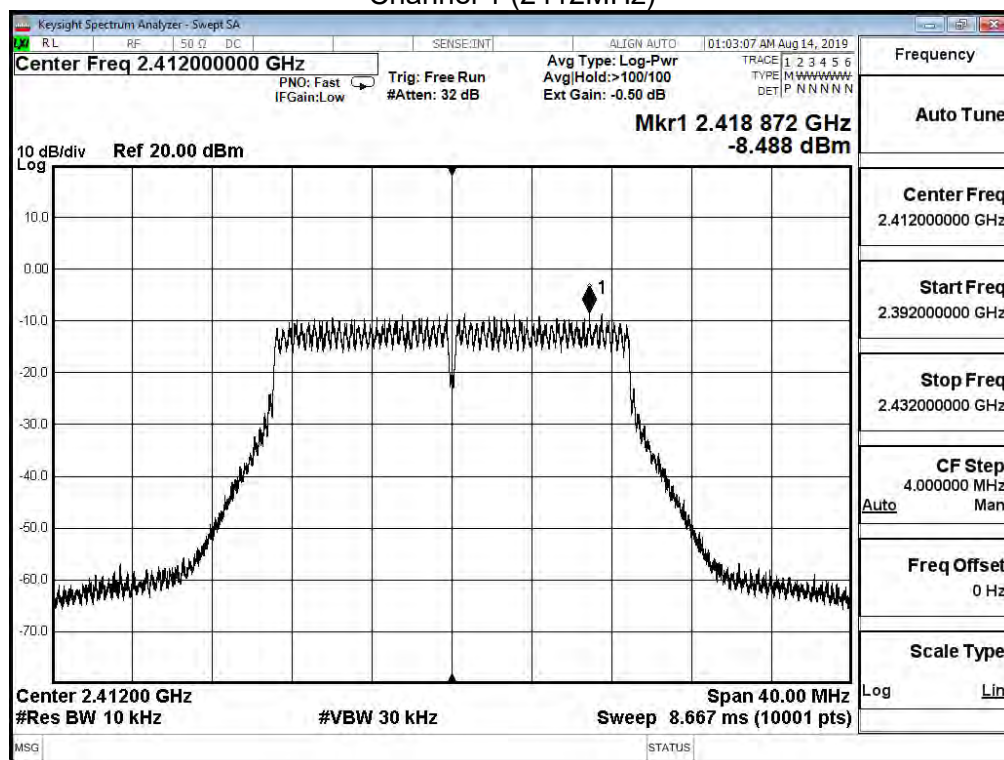
Channel 11 (2462MHz)



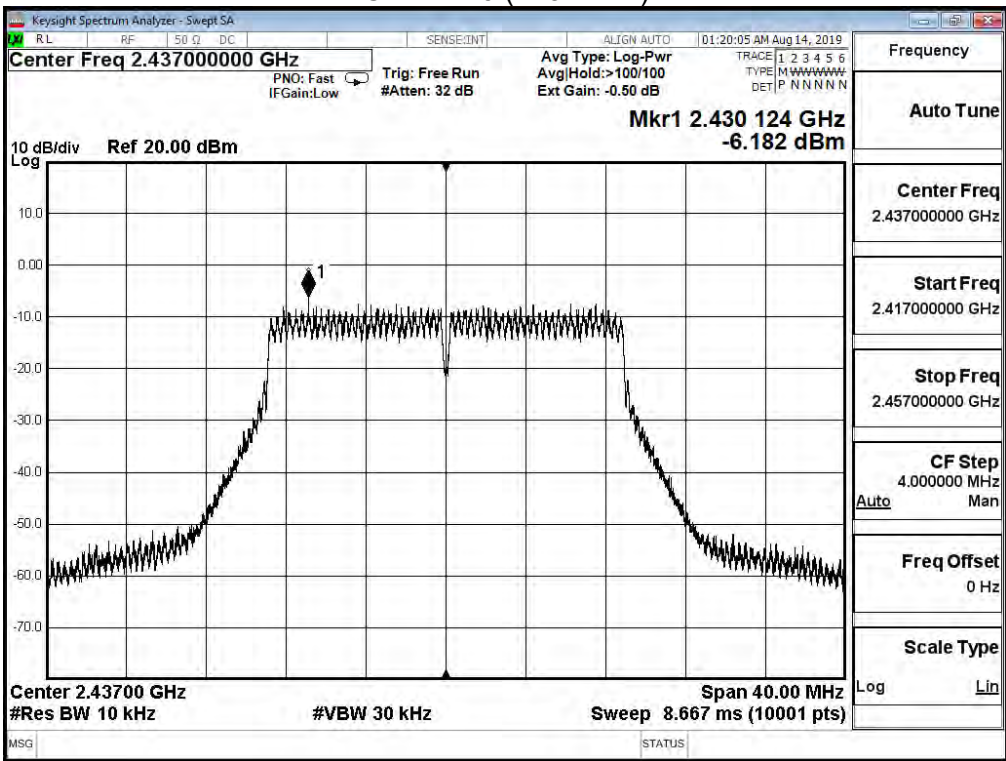
Product	N150 Wi-Fi Nano USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2019/08/14	Test Site	SR10-H

IEEE 802.11n (20M) (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	2412	-8.488	≤ 8	Pass
6	2437	-6.182	≤ 8	Pass
11	2462	-7.402	≤ 8	Pass

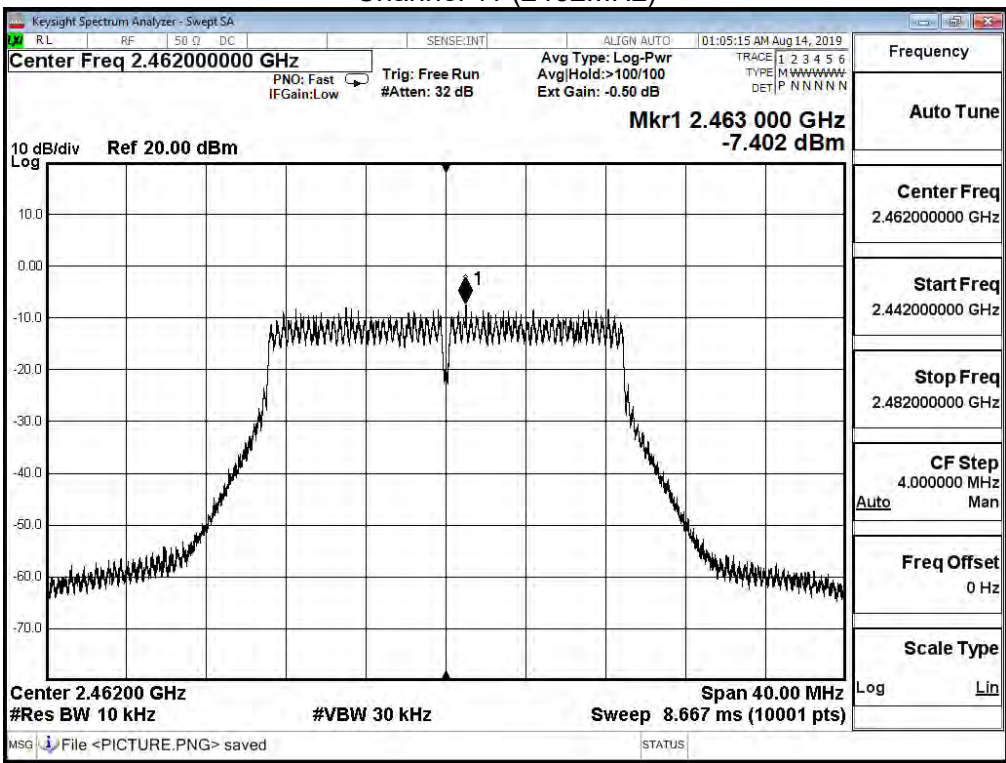
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

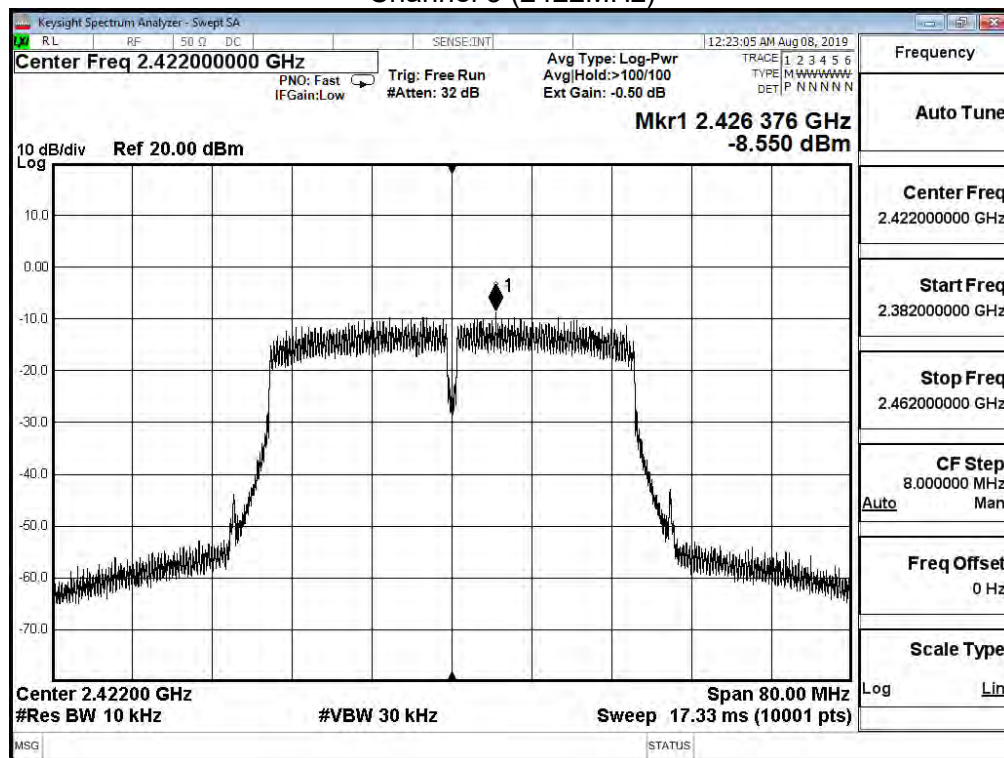


Product	N150 Wi-Fi Nano USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2019/08/08	Test Site	SR10-H

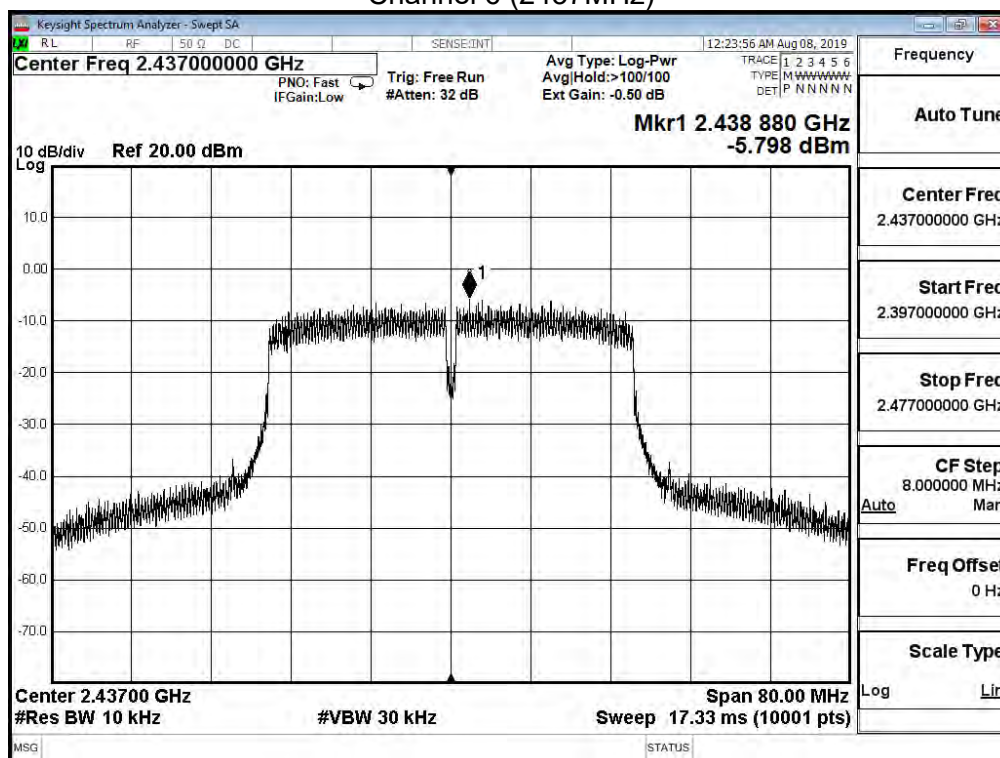
IEEE 802.11n (40M) (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm/3kHz)	Limit (dBm/3kHz)	Result
3	2422	-8.55	≤ 8	Pass
6	2437	-5.798	≤ 8	Pass
9	2452	-8.355	≤ 8	Pass

Channel 3 (2422MHz)



Channel 6 (2437MHz)



Channel 9 (2452MHz)

