FCC Test Report

Product Name	:	NAIL PRINTER
Trade Name	:	Jolimark
Model No.	:	NP311D
FCC ID.	:	WAGNP311D

Applicant	:	KONG YUE ELECTRONICS & INFORMATION INDUSTRY LTD.
Address	:	18 Kongyue Road, Jinguzhou Zone, Xinhui District, Jiangmen City, Guangdong Province, China

Date of Receipt	:	Mar. 26, 2019
Issued Date	:	Jan. 10, 2020
Report No.	:	1930412R-RFUSP73V00
Report Version	:	V1.0

Test Report Certification

Issued Date : Jan. 10, 2020
Report No. : 1930412R-RFUSP73V00

Product Name	:	NAIL PRINTER
Applicant	:	KONG YUE ELECTRONICS & INFORMATION INDUSTRY LTD.
Address	:	18 Kongyue Road, Jinguzhou Zone, Xinhui District, Jiangmen City, Guangdong Province, China
Manufacturer	:	KONG YUE ELECTRONICS & INFORMATION INDUSTRY LTD.
Model No.	:	NP311D
Trade Name	:	Jolimark
FCC ID.	:	WAGNP311D
EUT Test Voltage	:	AC 100~240V, 50-60Hz
Testing Voltage	:	AC 120V/60Hz
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2017 ANSI C63.10: 2013 KDB 558074 D01 V05r02 / KDB 662911 D01 V02r01
Laboratory Name	:	Hsin Chu Laboratory
Address	:	No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 310, Taiwan, R.O.C. TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result	:	Complied

Documented By :

(Demi Chang / Senior Engineering Adm. Specialist)

Tested By :

(Elwin Lin / Engineer)

Approved By :

(Louis Hsu / Deputy Manager)

Revision History

Report No.	Version	Description	Issued Date
1930412R-RFUSP73V00	V1.0	Initial issue of report	Jan. 10, 2020

TABLE OF CONTENTS

1. General Information

1.1. EUT Description

Product Name	NAIL PRINTER	
Trade Name	Jolimark	
Model No.	NP311D	
Frequency Range/ Channel Number	IEEE 802.11b/g IEEE 802.11n (20MHz)	2412~2462MHz / 11 Channels
	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.	ShenZhen Keesun Technology Co., Ltd. / KS066-10002-A
Antenna Type	Dipole Antenna
Antenna Gain	2dBi

Accessories Information	
Adapter	FSP, FSP060-DAAN3 I/P: 100-240V~, 1.8A 50-60Hz O/P: 24.0V ⎓ 2.5A(60W MAX) Cable out: Shielded, 1m, one ferrite core bonded.
Power Cable	Non-Shielded, 2.5m.

ANT-TX / RX & Bandwidth

ANT-TX / RX	TX		RX	
Mode/ Channel Bandwidth	20MHz	40MHz	20MHz	40MHz
IEEE802.11b	✓		✓	
IEEE802.11g	✓		✓	
IEEE802.11n	✓	✓	✓	✓

IEEE 802.11n

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

Table 1 – MCS parameters for TX Antenna number = 1

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

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

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

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 NAIL PRINTER support 2.4GHz b/g/n and BT4.0 transmitting and receiving function.
2. Regards to the frequency band operation; the lowest、middle and highest frequency of channel were selected to perform the test, and then shown on this report.

1.2. Test Mode

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

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

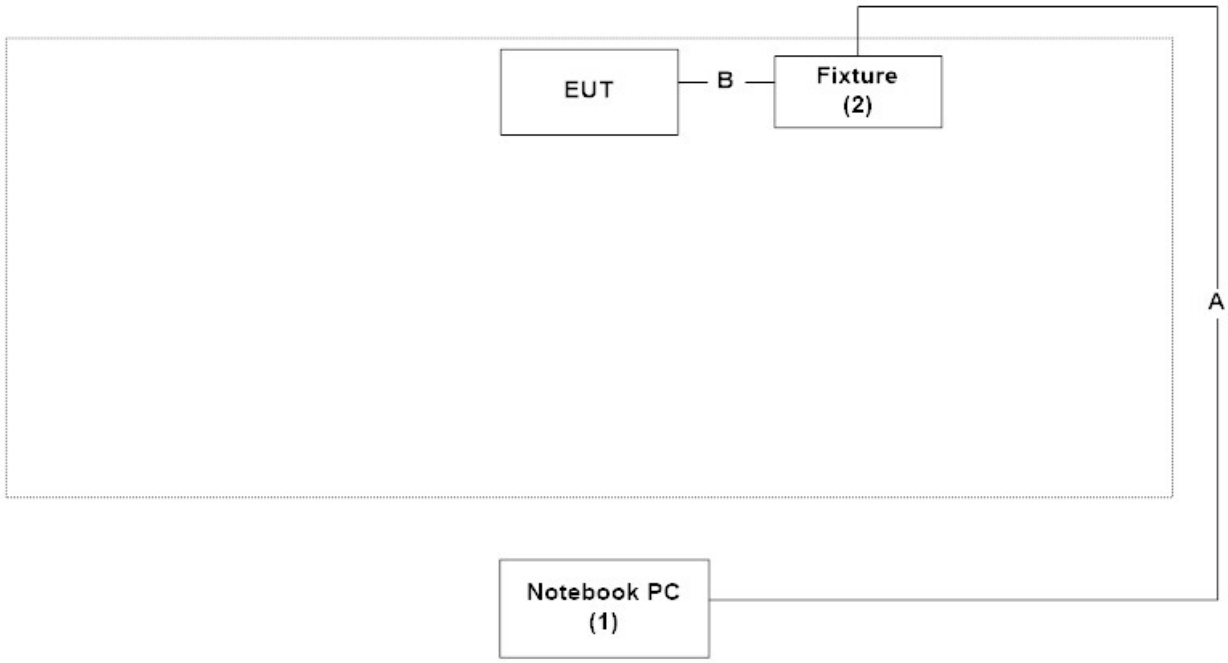
1.3. Tested System Details

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
2	Fixture	AIS	N/A	--	DoC	--

1.4. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	USB CDD Cable	Shielded, 1.5m
B	Signal Cable	Non-Shielded, 0.2m

1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute QRCT on the Notebook PC.
3	Configure the test mode, the test channel, and the data rate.
4	Make the EUT to start the continuous transmitting and 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**
Canada		**IC Registration Number: 22397-1 / 22397-2 / 22397-3**

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site:
http://www.dekra.com.tw/english/about/certificates.aspx?bval=5
The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: http://www.dekra.com.tw/index_en.aspx

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

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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	2018/07/23	2019/07/22

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	2018/06/07	2019/06/06
Power Sensor	Keysight	N1923A	MY57240005	2018/06/07	2019/06/06

Radiated Emission / CB4-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	2018/07/19	2019/07/18
Coaxial Cable(23.5m)	Suhner	SF102_SF104_SF106	CB4_1	2018/08/21	2019/08/20

RF antenna conducted test / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/12/21	2019/12/20

Radiated Emission Band Edge / CB4-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	2018/06/26	2019/06/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2018/06/01	2019/05/31
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	2018/07/19	2019/07/18
Coaxial Cable	Suhner	SF104_SF106_ SF104_SF102 (23.5m)	CB4_1	2018/08/21	2019/08/20

Occupied Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
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	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/12/21	2019/12/20

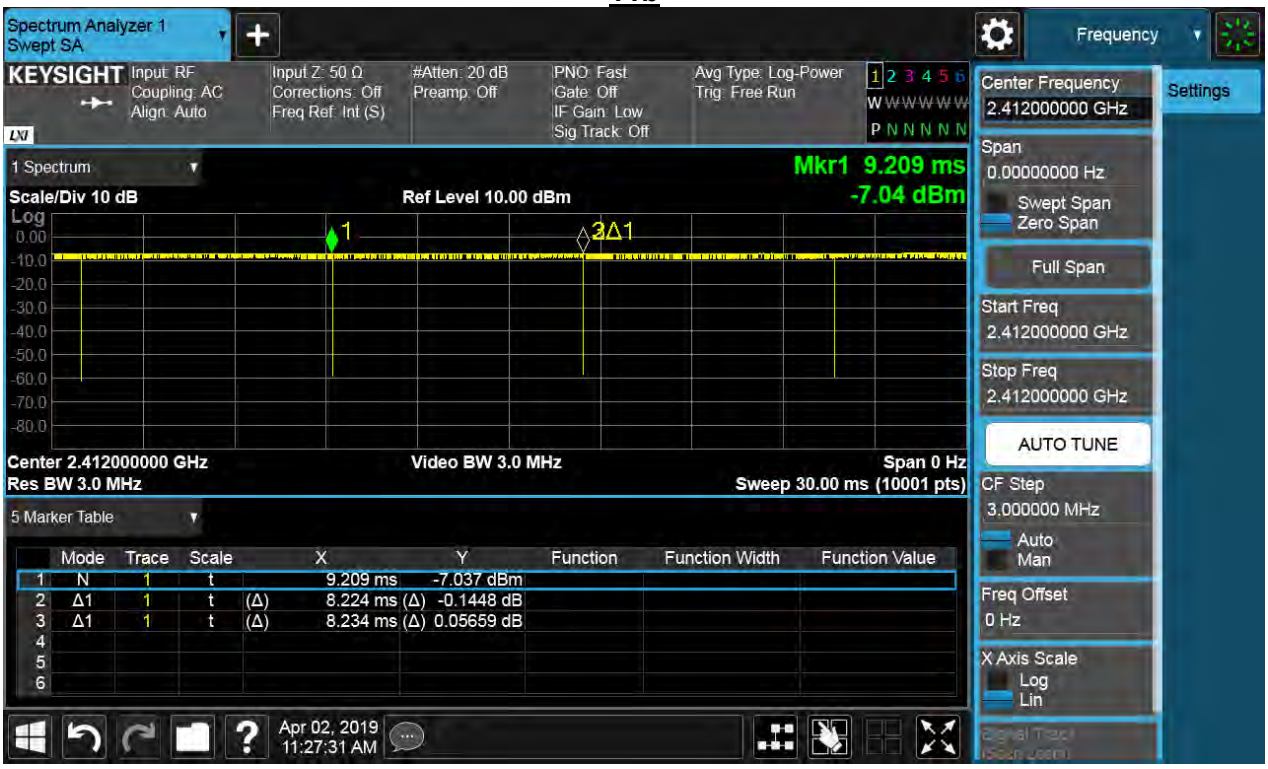
Power Density / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/12/21	2019/12/20

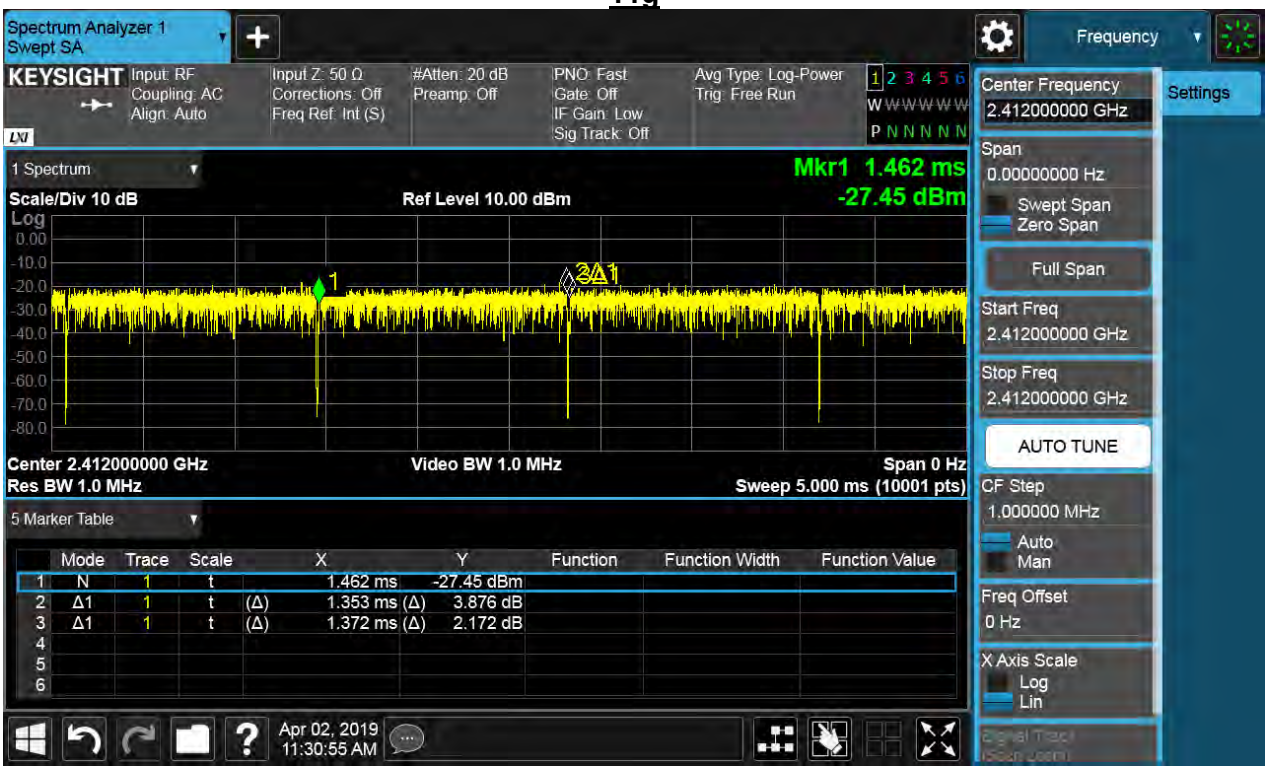
1.8. Duty cycle

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
11b	8.224	8.234	99.88%	--	--
11g	1.353	1.372	98.62%	--	--
HT20	1.267	1.284	98.68%	--	--
HT40	0.626	0.645	97.05%	0.13	1.597

11b



11g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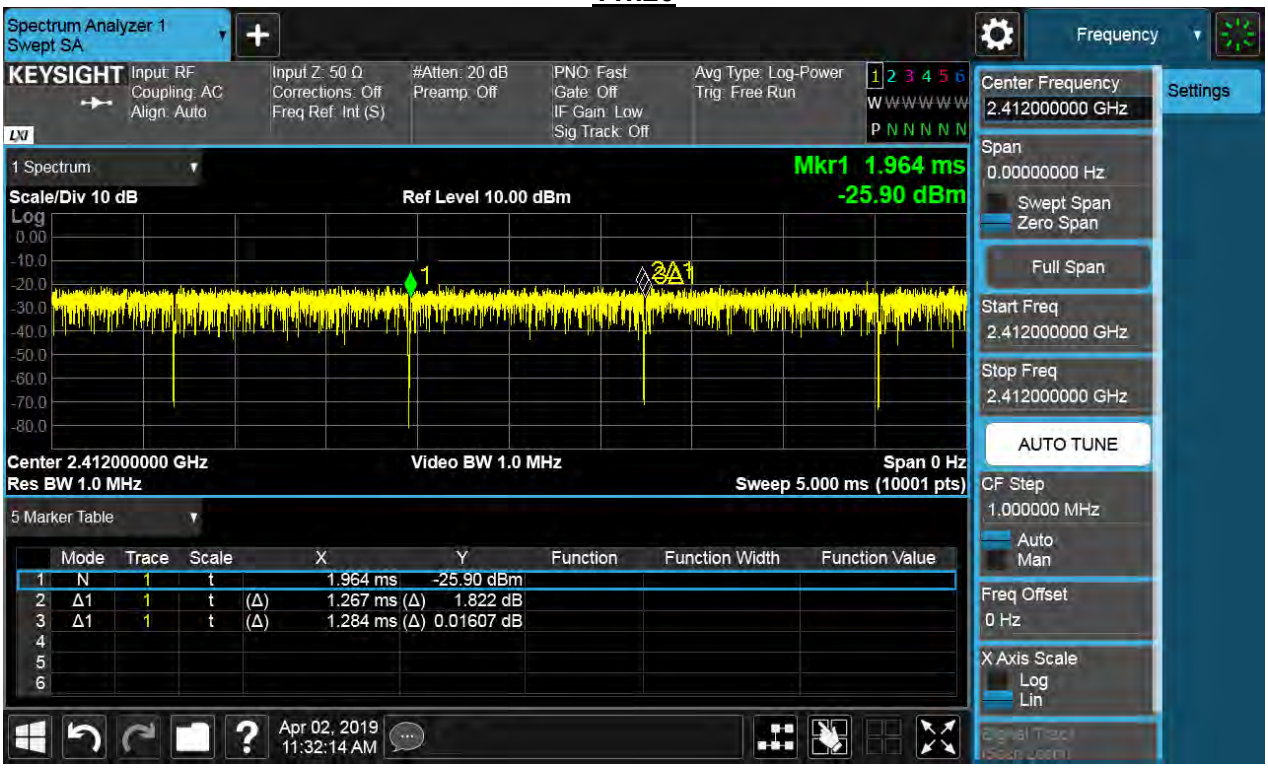
Swept SA
KEYSIGHT
Input: RF
Coupling: AC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
#Atten: 20 dB
Preamp: Off
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Trig: Free Run
Frequency
Settings
1 Spectrum
Mkr1 1.462 ms
-27.45 dBm
Scale/Div 10 dB
Ref Level 10.00 dBm
Center 2.412000000 GHz
Res BW 1.0 MHz
Video BW 1.0 MHz
Span 0 Hz
Sweep 5.000 ms (10001 pts)
5 Marker Table
1 N 1 t 1.462 ms -27.45 dBm
2 Δ1 1 t (Δ) 1.353 ms (Δ) 3.876 dB
3 Δ1 1 t (Δ) 1.372 ms (Δ) 2.172 dB
Center Frequency
2.412000000 GHz
Span
0.00000000 Hz
Swept Span
Zero Span
Full Span
Start Freq
2.412000000 GHz
Stop Freq
2.412000000 GHz
AUTO TUNE
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Apr 02, 2019
11:30:55 AM

11n20


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: AC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
#Atten: 20 dB
Preamp: Off
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Trig: Free Run
Frequency
Settings
1 Spectrum
Mkr1 1.964 ms
-25.90 dBm
Scale/Div 10 dB
Ref Level 10.00 dBm
Center 2.412000000 GHz
Res BW 1.0 MHz
Video BW 1.0 MHz
Span 0 Hz
Sweep 5.000 ms (10001 pts)
5 Marker Table
1 N 1 t 1.964 ms -25.90 dBm
2 Δ1 1 t (Δ) 1.267 ms (Δ) 1.822 dB
3 Δ1 1 t (Δ) 1.284 ms (Δ) 0.01607 dB
Center Frequency
2.412000000 GHz
Span
0.00000000 Hz
Swept Span
Zero Span
Full Span
Start Freq
2.412000000 GHz
Stop Freq
2.412000000 GHz
AUTO TUNE
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
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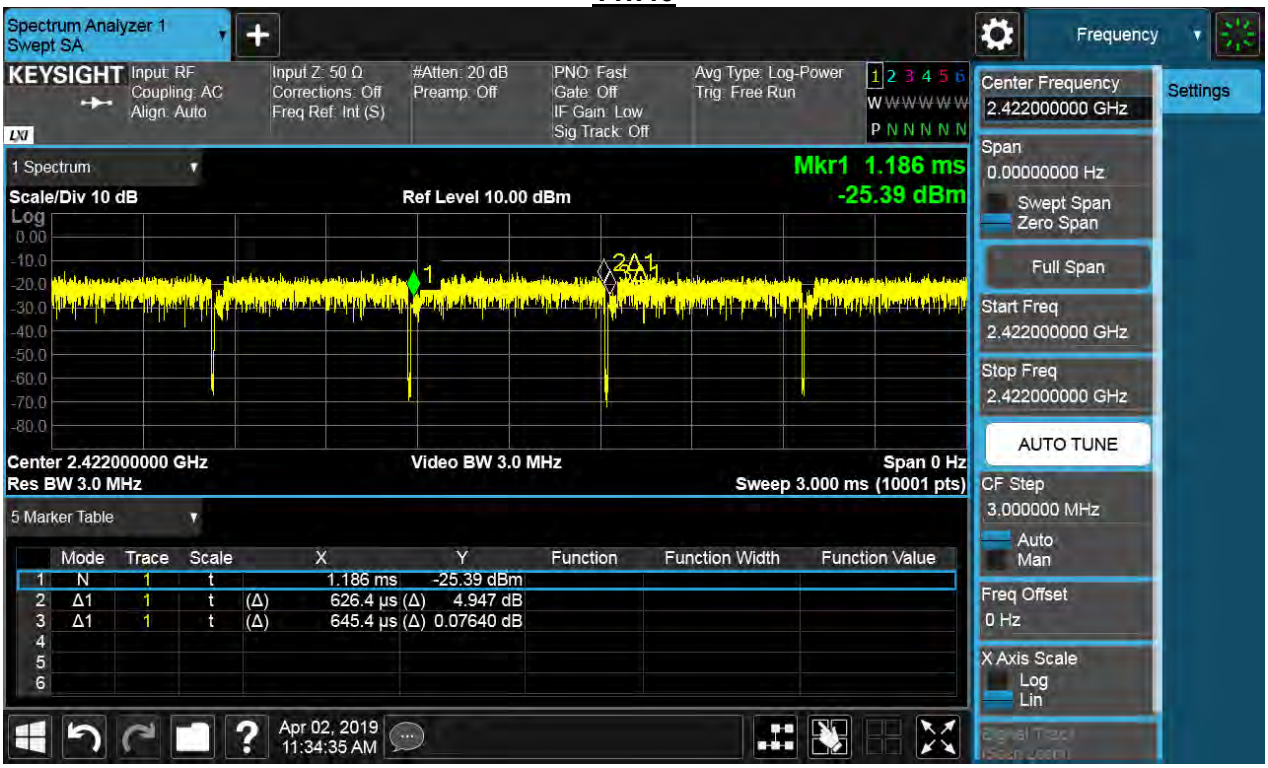
11n40

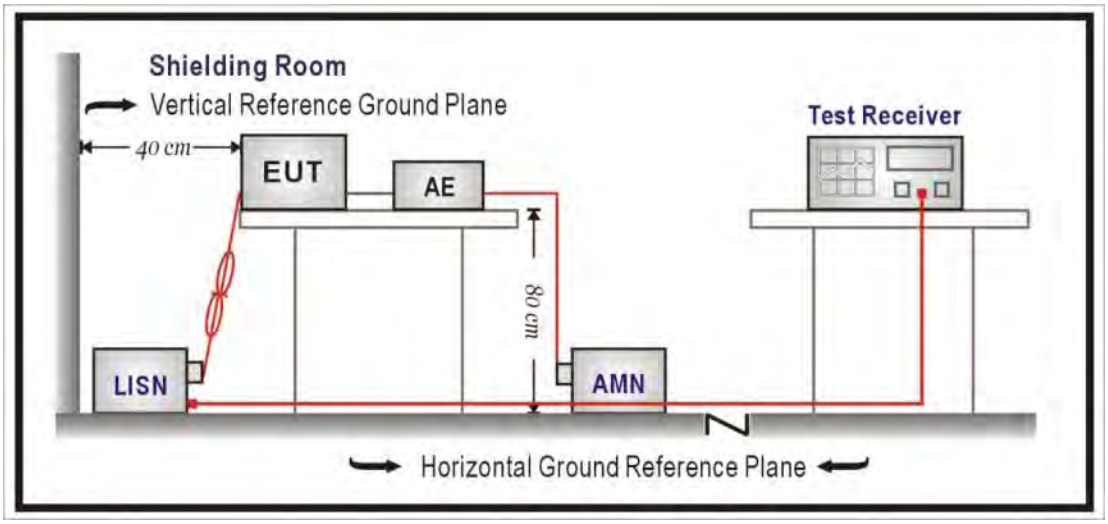

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: AC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
#Atten: 20 dB
Preamp: Off
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Trig: Free Run
1 Spectrum
Mkr1 1.186 ms
-25.39 dBm
Scale/Div 10 dB
Ref Level 10.00 dBm
Log
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
Center 2.422000000 GHz
Res BW 3.0 MHz
Video BW 3.0 MHz
Span 0 Hz
Sweep 3.000 ms (10001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 t 1.186 ms -25.39 dBm
2 Δ1 1 t (Δ) 626.4 µs (Δ) 4.947 dB
3 Δ1 1 t (Δ) 645.4 µs (Δ) 0.07640 dB
4
5
6
Apr 02, 2019
11:34:35 AM
Frequency
Center Frequency
2.422000000 GHz
Span
0.00000000 Hz
Swept Span
Zero Span
Full Span
Start Freq
2.422000000 GHz
Stop Freq
2.422000000 GHz
AUTO TUNE
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Settings

1.9. Uncertainty

Test item	Uncertainty
Conducted Emission	± 2.26 dB
Maximum peak conducted output power	± 1.27 dB
Radiated Emission	30MHz～1GHz as ± 3.43 dB 1GHz～26.5GHz as ± 3.65 dB
RF antenna conducted test	± 1.27 dB
Radiated Emission Band Edge	± 3.9 dB
DTS Bandwidth	± 50 Hz
Occupied Bandwidth	± 50 Hz
Power Density	± 1.27 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

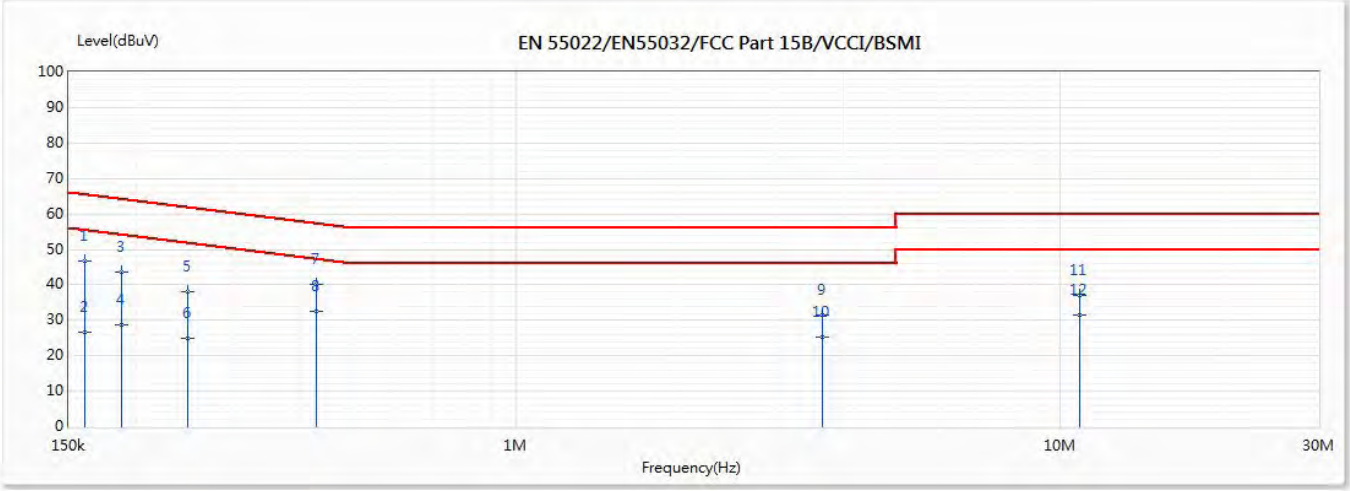
The EUT was setup according to ANSI C63.4: 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.
The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 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: 2017

2.5. Test Result

Site :	SR2-H	Engineer :	Neil
Model No :	NP311D	Test Date :	2019/6/28
Test Voltage :	AC 120V/60Hz	Phase :	L1
Test Mode :	Mode 1: Transmit		
Note :			

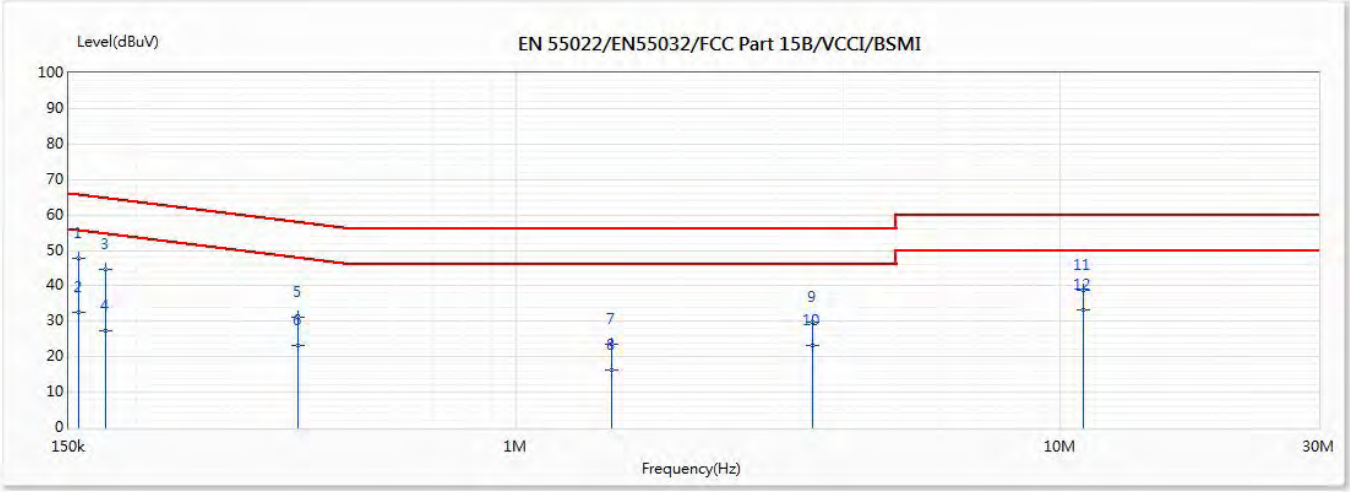


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.16	46.54	65.70	-19.16	36.77	9.77	QP
2	0.16	26.52	55.70	-29.19	16.75	9.77	AV
3	0.187	43.52	64.94	-21.41	33.75	9.77	QP
4	0.187	28.66	54.94	-26.28	18.89	9.77	AV
5	0.248	37.90	63.20	-25.30	28.13	9.77	QP
6	0.248	25.01	53.20	-28.19	15.24	9.77	AV
7	0.428	40.22	58.05	-17.83	30.45	9.77	QP
*8	0.428	32.44	48.05	-15.61	22.67	9.77	AV
9	3.652	31.35	56.00	-24.65	21.49	9.87	QP
10	3.652	25.16	46.00	-20.84	15.30	9.87	AV
11	10.903	37.06	60.00	-22.94	26.78	10.28	QP
12	10.903	31.36	50.00	-18.64	21.09	10.28	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 :	Neil
Model No :	NP311D	Test Date :	2019/6/28
Test Voltage :	AC 120V/60Hz	Phase :	L2
Test Mode :	Mode 1: Transmit		
Note :			



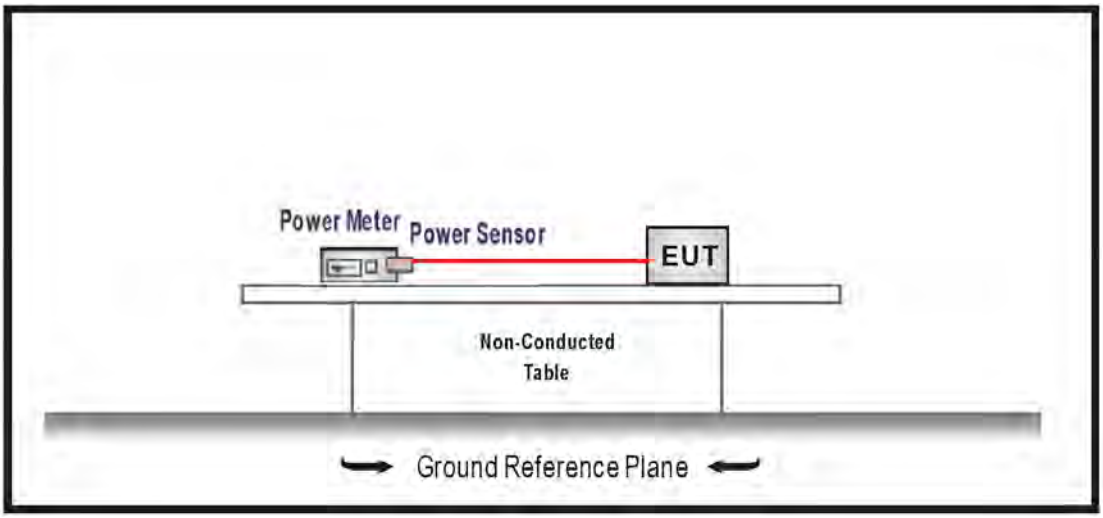
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.156	47.81	65.82	-18.01	38.04	9.77	QP
2	0.156	32.65	55.82	-23.17	22.88	9.77	AV
3	0.175	44.76	65.28	-20.52	34.99	9.77	QP
4	0.175	27.29	55.28	-27.99	17.52	9.77	AV
5	0.397	31.29	58.96	-27.67	21.52	9.77	QP
6	0.397	23.23	48.96	-25.73	13.46	9.77	AV
7	1.495	23.37	56.00	-32.63	13.58	9.79	QP
8	1.495	16.22	46.00	-29.78	6.43	9.79	AV
9	3.52	29.90	56.00	-26.10	20.05	9.86	QP
10	3.52	23.14	46.00	-22.86	13.29	9.86	AV
11	11.057	38.76	60.00	-21.24	28.49	10.28	QP
*12	11.057	33.34	50.00	-16.66	23.06	10.28	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 9.1.2 of KDB558074 D01 V05, 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: 2017

3.5. Test Result

Product	NAIL PRINTER		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/25	Test Site	SR10-H

IEEE 802.11b (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	21.02	≦30
6	2437	20.54	≦30
11	2462	19.62	≦30

IEEE 802.11g (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	21.82	≦30
6	2437	22.41	≦30
11	2462	21.94	≦30

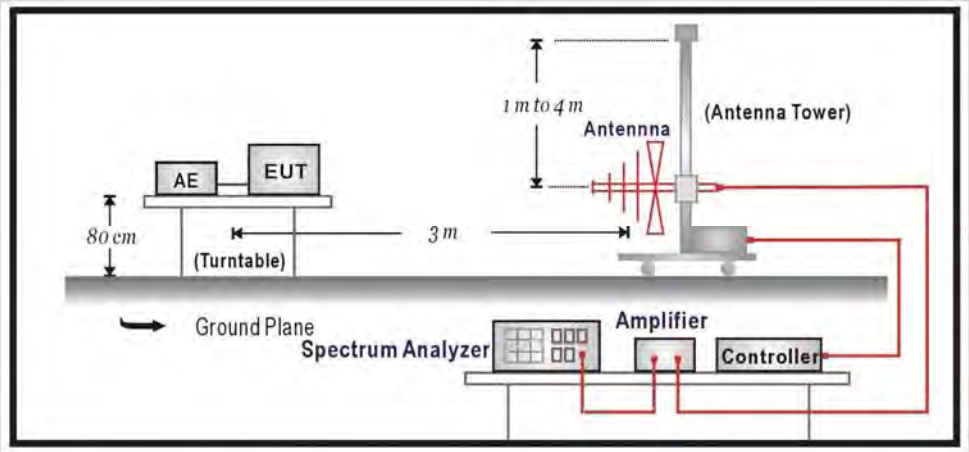
IEEE 802.11n 20M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	21.57	≦30
6	2437	22.36	≦30
11	2462	21.65	≦30

IEEE 802.11n 40M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	19.65	≦30
6	2437	21.71	≦30
9	2452	21.13	≦30

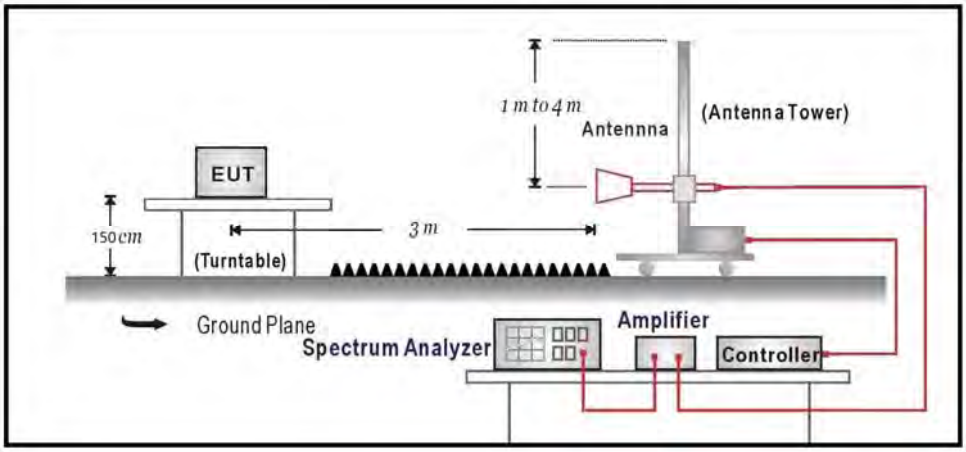
4. Radiated Emission

4.1. 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 KDB558074 D01 V05 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.

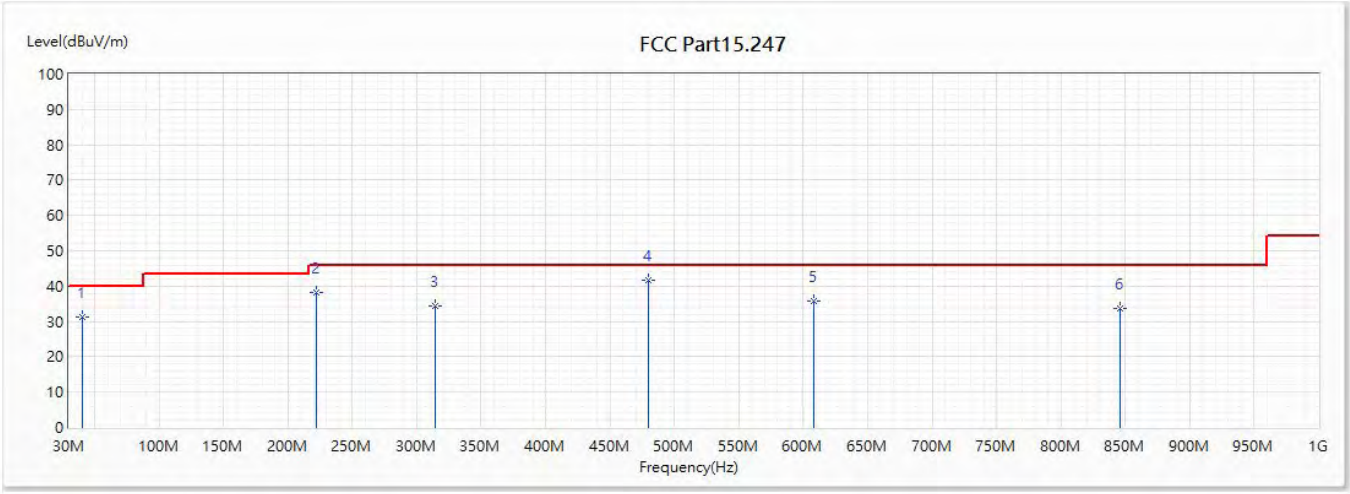
4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2017

4.5. Test Result

30MHz-1GHz Spurious

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/6/25
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2437MHz		

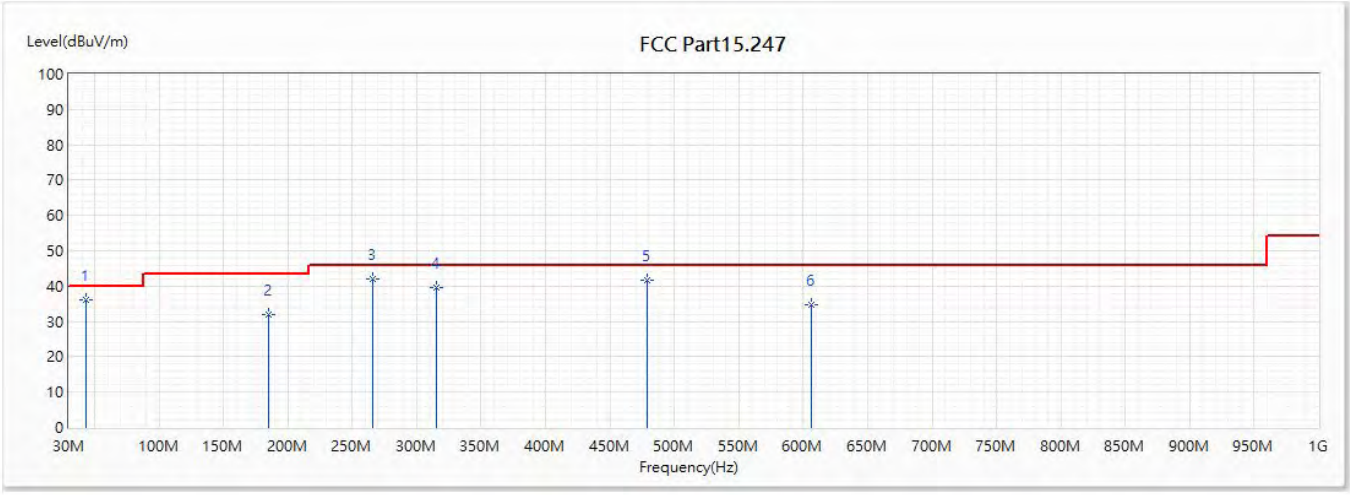


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	40.064	31.15	40.00	-8.85	47.75	-16.60	QP
2	222.545	38.34	46.00	-7.66	60.88	-22.54	QP
3	314.574	34.21	46.00	-11.79	53.91	-19.70	QP
* 4	479.716	41.64	46.00	-4.36	57.34	-15.70	QP
5	607.999	35.92	46.00	-10.08	50.38	-14.46	QP
6	845.891	33.52	46.00	-12.48	45.89	-12.37	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 low than 20dB from Limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/6/25
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2437MHz		

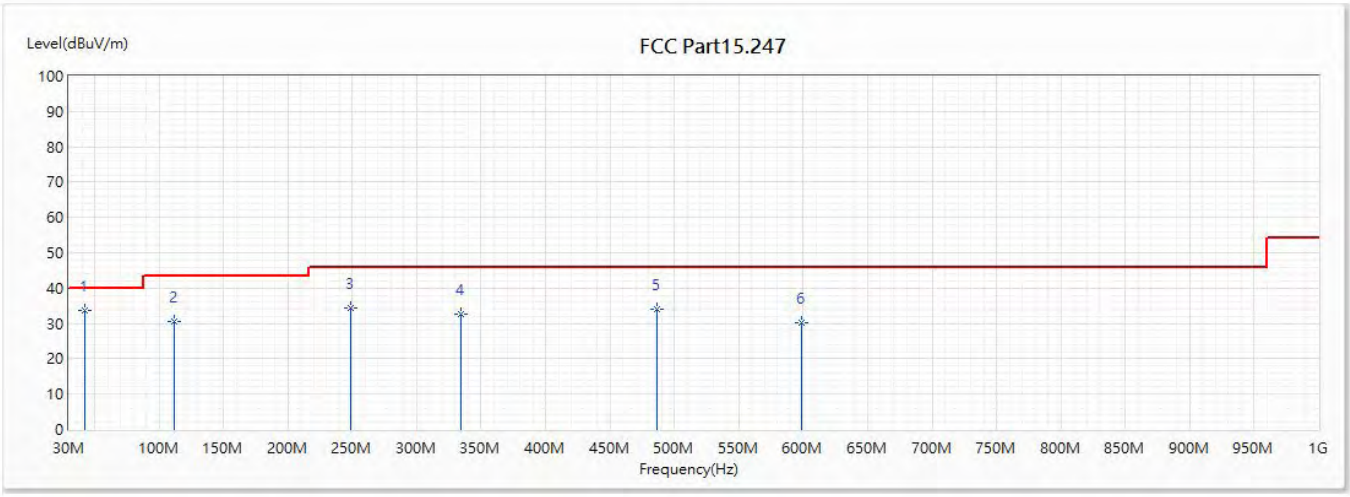


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	42.853	35.96	40.00	-4.04	54.53	-18.57	QP
2	185.321	31.93	43.50	-11.57	55.29	-23.36	QP
3	266.316	41.90	46.00	-4.10	62.65	-20.75	QP
4	315.423	39.67	46.00	-6.33	59.34	-19.67	QP
5	478.868	41.54	46.00	-4.46	57.25	-15.71	QP
6	606.301	34.64	46.00	-11.36	49.11	-14.47	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 low than 20dB from Limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/6/26
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2437MHz		

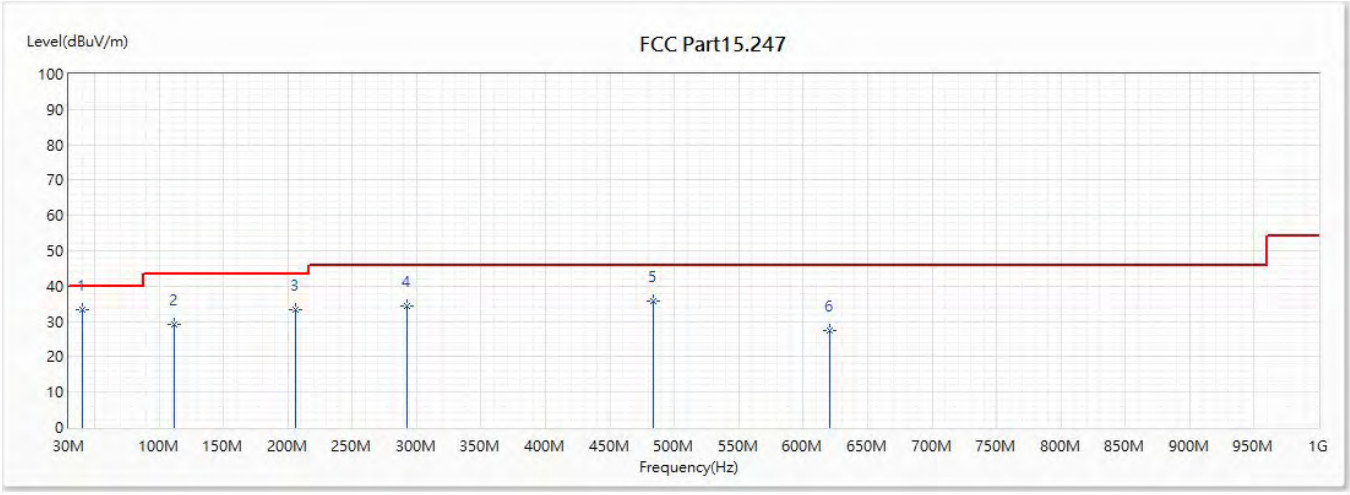


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	42.004	33.76	40.00	-6.24	51.58	-17.82	QP
2	111.844	30.56	43.50	-12.94	53.59	-23.03	QP
3	248.856	34.35	46.00	-11.65	55.46	-21.11	QP
4	334.095	32.60	46.00	-13.40	51.68	-19.08	QP
5	486.021	33.94	46.00	-12.06	49.53	-15.59	QP
6	598.541	30.38	46.00	-15.62	44.90	-14.52	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 low than 20dB from Limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/6/26
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2437MHz		

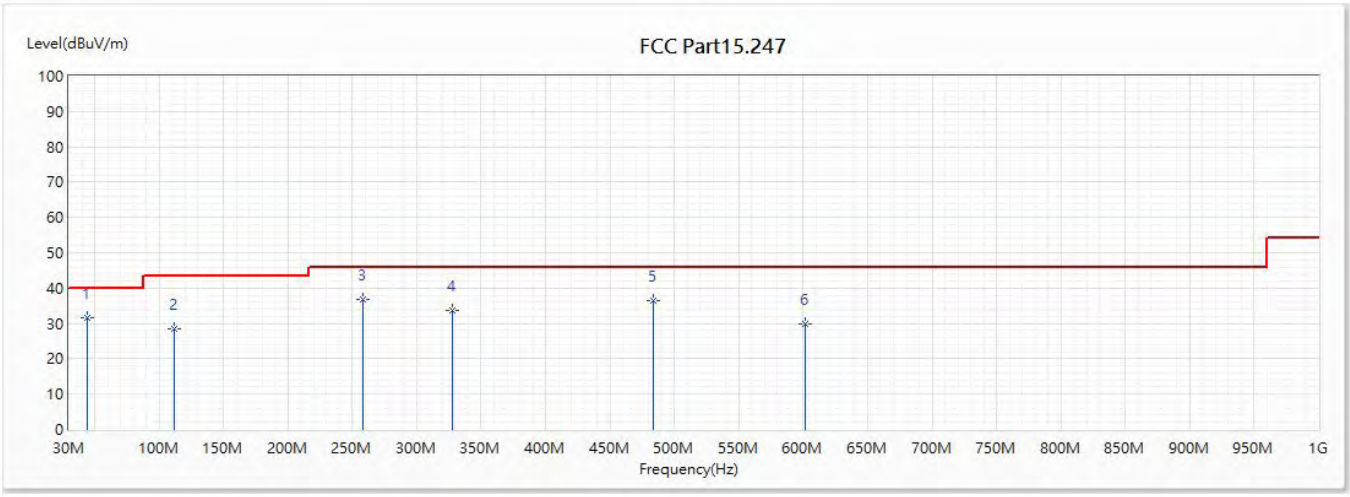


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	40.791	33.46	40.00	-6.54	50.22	-16.76	QP
2	111.965	29.14	43.50	-14.36	52.17	-23.03	QP
3	205.57	33.26	43.50	-10.24	56.72	-23.46	QP
4	292.749	34.53	46.00	-11.47	54.81	-20.28	QP
5	483.718	35.78	46.00	-10.22	51.41	-15.63	QP
6	620.609	27.27	46.00	-18.73	41.65	-14.38	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 low than 20dB from Limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/6/26
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2437MHz		

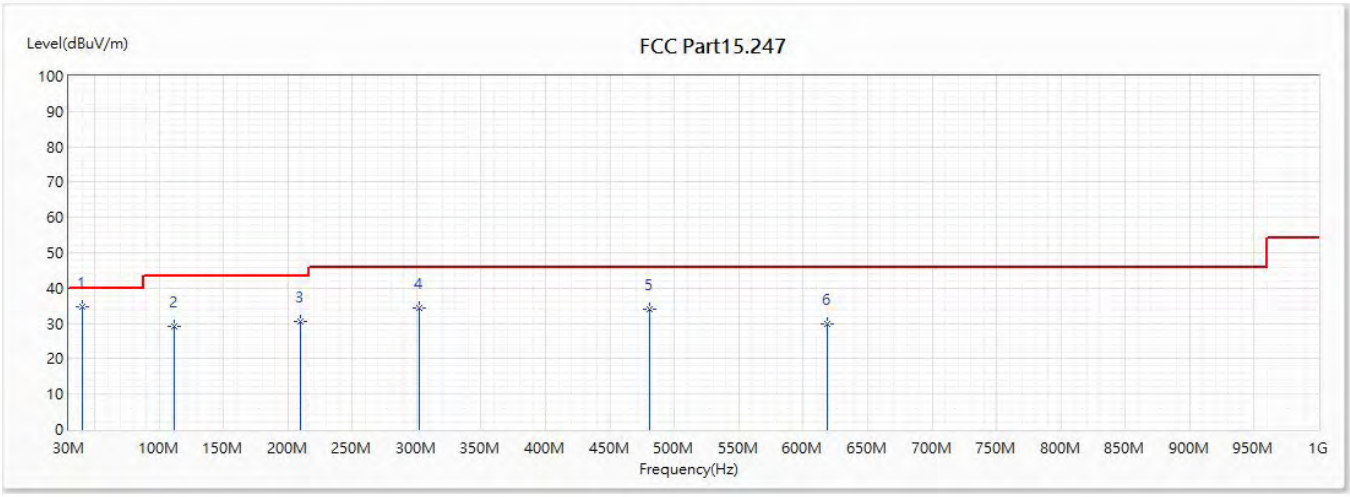


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	44.55	31.74	40.00	-8.26	51.79	-20.05	QP
2	111.844	28.35	43.50	-15.15	51.38	-23.03	QP
3	258.678	36.77	46.00	-9.23	57.66	-20.89	QP
4	328.033	33.55	46.00	-12.45	52.82	-19.27	QP
5	483.718	36.50	46.00	-9.50	52.13	-15.63	QP
6	601.088	29.72	46.00	-16.28	44.22	-14.50	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 low than 20dB from Limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/6/26
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2437MHz		

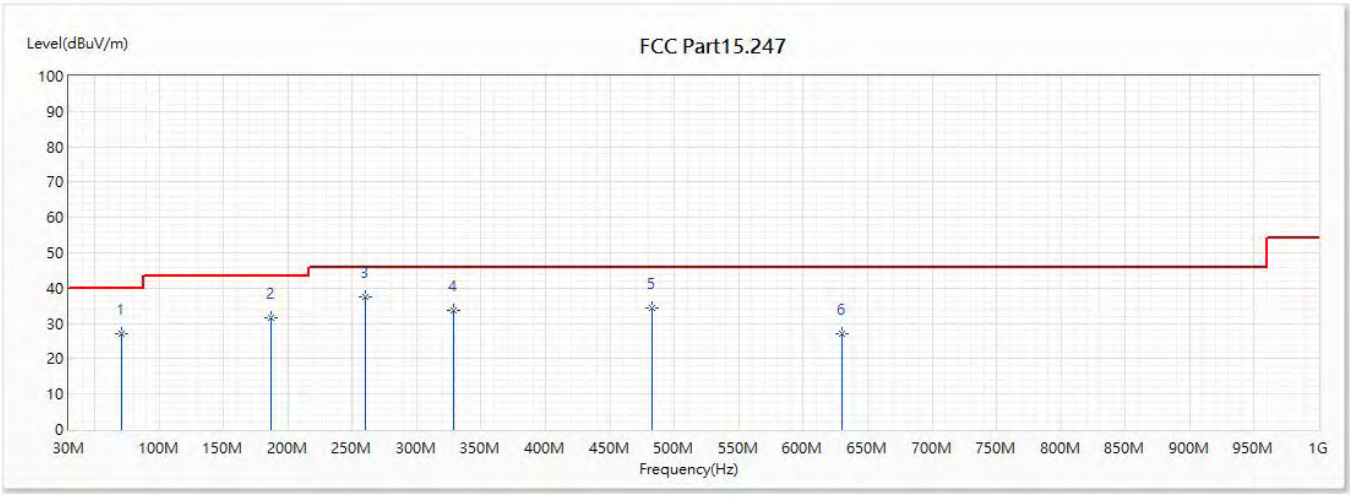


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	40.549	34.85	40.00	-5.15	51.49	-16.64	QP
2	112.086	29.10	43.50	-14.40	52.13	-23.03	QP
3	210.178	30.56	43.50	-12.94	53.77	-23.21	QP
4	302.085	34.34	46.00	-11.66	54.44	-20.10	QP
5	481.171	34.03	46.00	-11.97	49.70	-15.67	QP
6	618.184	29.93	46.00	-16.07	44.32	-14.39	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 low than 20dB from Limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/6/26
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2437MHz		

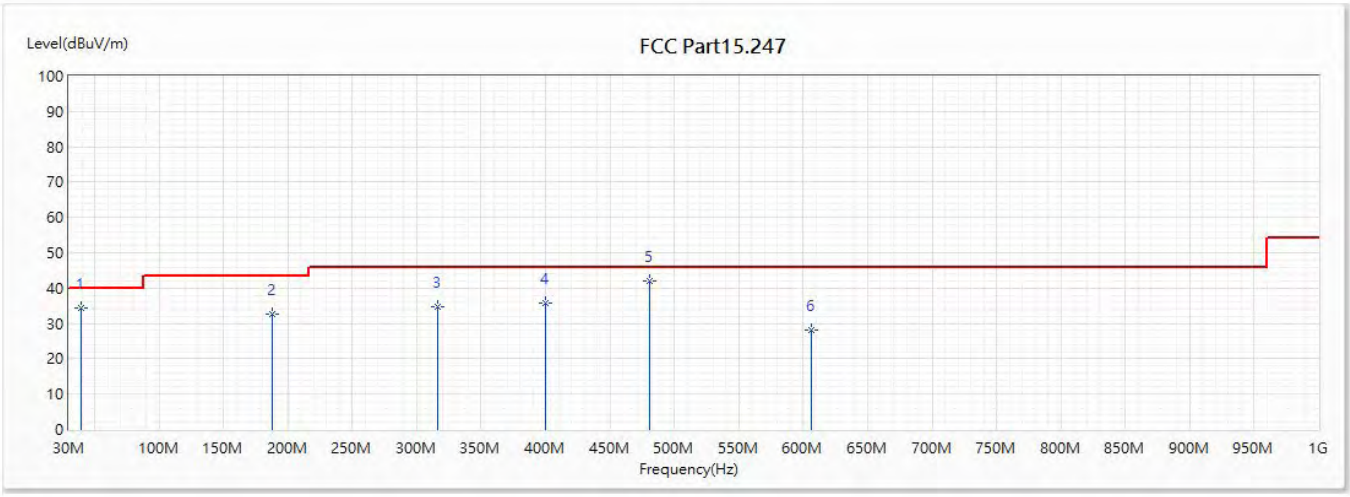


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	71.346	27.25	40.00	-12.75	54.81	-27.56	QP
2	186.655	31.54	43.50	-11.96	54.92	-23.38	QP
* 3	260.011	37.36	46.00	-8.64	58.22	-20.86	QP
4	329.003	33.71	46.00	-12.29	52.94	-19.23	QP
5	483.111	34.53	46.00	-11.47	50.18	-15.65	QP
6	630.309	27.12	46.00	-18.88	41.43	-14.31	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 low than 20dB from Limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/6/26
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2437MHz		



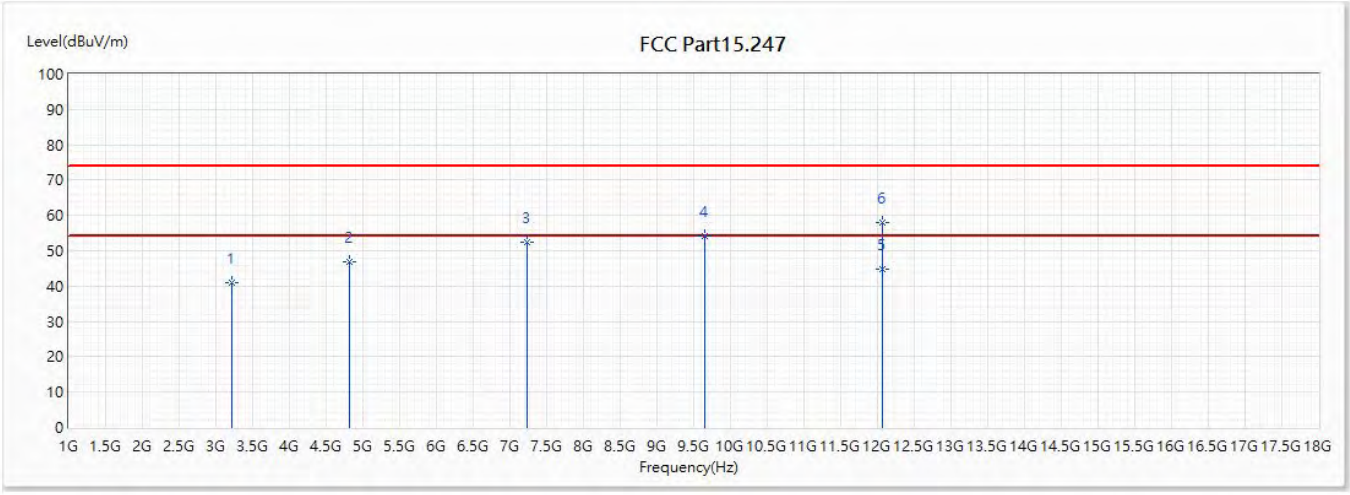
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	39.579	34.41	40.00	-5.59	50.99	-16.58	QP
2	188.231	32.67	43.50	-10.83	56.10	-23.43	QP
3	316.029	34.73	46.00	-11.27	54.37	-19.64	QP
4	400.055	35.60	46.00	-10.40	52.64	-17.04	QP
* 5	480.323	41.94	46.00	-4.06	57.63	-15.69	QP
6	606.544	28.06	46.00	-17.94	42.53	-14.47	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 low than 20dB from Limit.

Above 1GHz Spurious

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/26
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2412MHz		

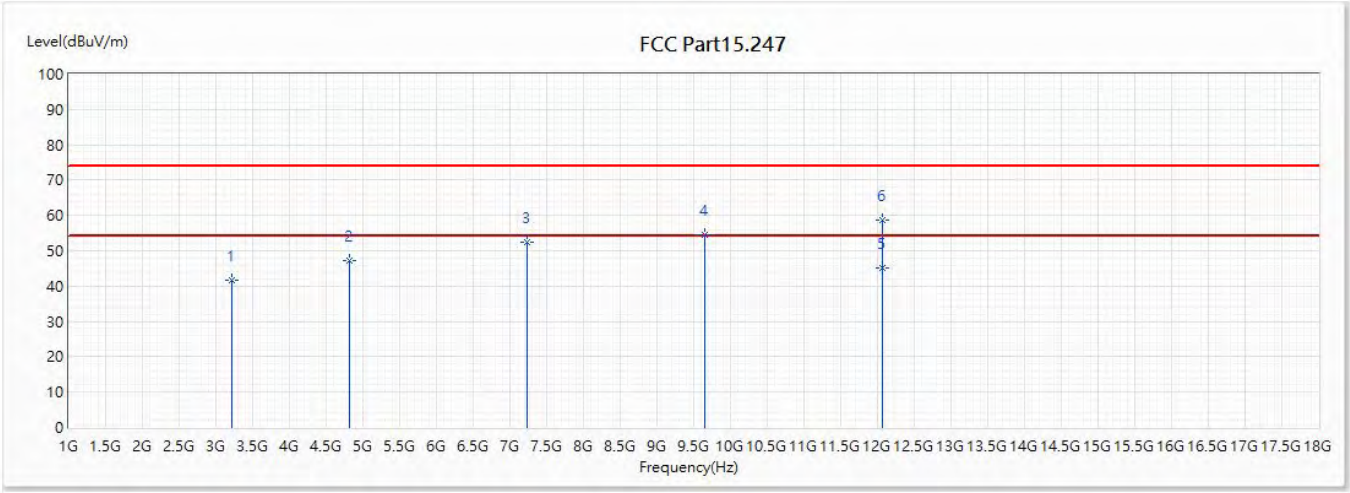


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3216	41.10	74.00	-32.90	37.02	4.08	PK
2	4824	46.91	74.00	-27.09	36.99	9.92	PK
3	7236	52.33	74.00	-21.67	35.79	16.54	PK
4	9648	54.06	74.00	-19.94	33.33	20.73	PK
* 5	12060	44.62	54.00	-9.38	20.77	23.85	AV
6	12060	58.06	74.00	-15.94	34.21	23.85	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/26
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2412MHz		

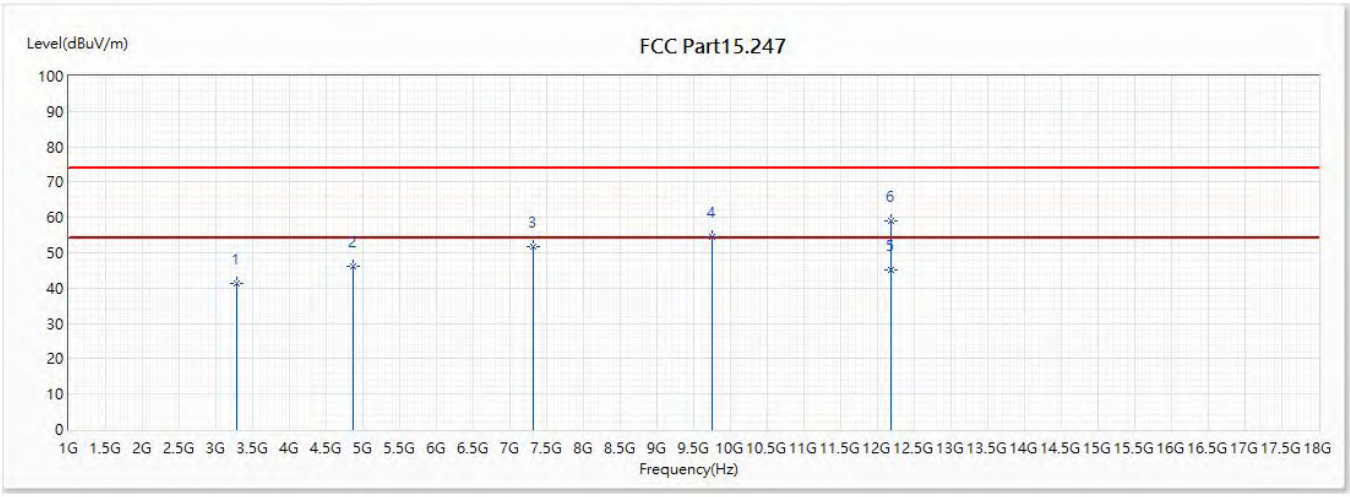


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3216	41.59	74.00	-32.41	37.51	4.08	PK
2	4824	47.09	74.00	-26.91	37.17	9.92	PK
3	7236	52.48	74.00	-21.52	35.94	16.54	PK
4	9648	54.54	74.00	-19.46	33.81	20.73	PK
* 5	12060	44.97	54.00	-9.03	21.12	23.85	AV
6	12060	58.56	74.00	-15.44	34.71	23.85	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/26
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2437MHz		

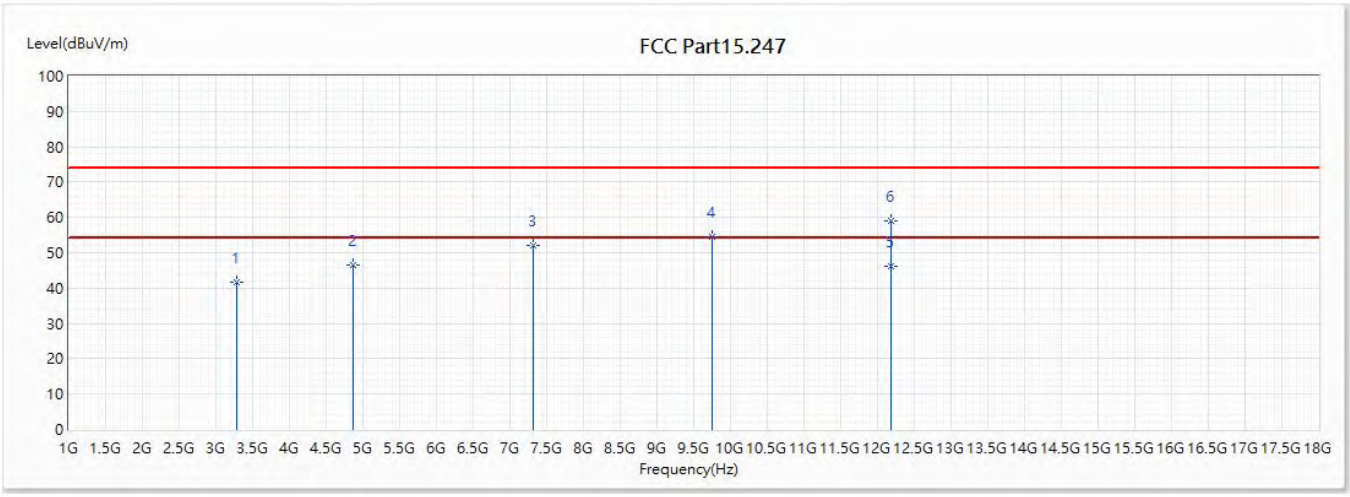


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3282	41.48	74.00	-32.52	37.08	4.40	PK
2	4874	46.31	74.00	-27.69	36.04	10.27	PK
3	7311	51.73	74.00	-22.27	35.15	16.58	PK
4	9748	54.35	74.00	-19.65	33.84	20.51	PK
* 5	12185	45.15	54.00	-8.85	20.59	24.56	AV
6	12185	58.92	74.00	-15.08	34.36	24.56	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2437MHz		

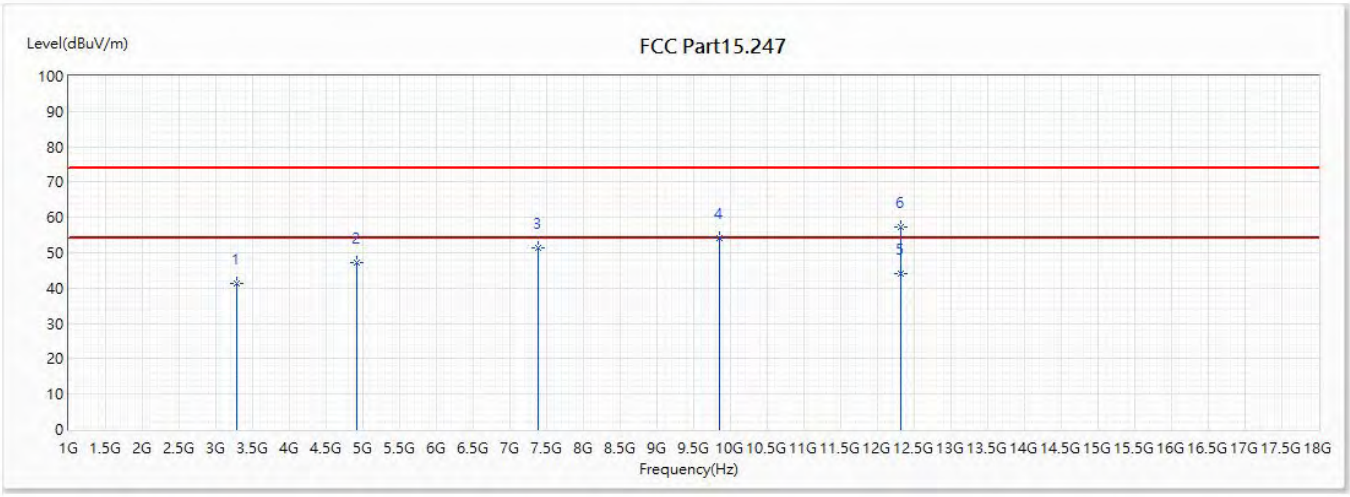


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3282	41.55	74.00	-32.45	37.15	4.40	PK
2	4874	46.43	74.00	-27.57	36.16	10.27	PK
3	7311	52.16	74.00	-21.84	35.58	16.58	PK
4	9748	54.67	74.00	-19.33	34.16	20.51	PK
* 5	12185	46.10	54.00	-7.90	21.54	24.56	AV
6	12185	59.07	74.00	-14.93	34.51	24.56	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2462MHz		

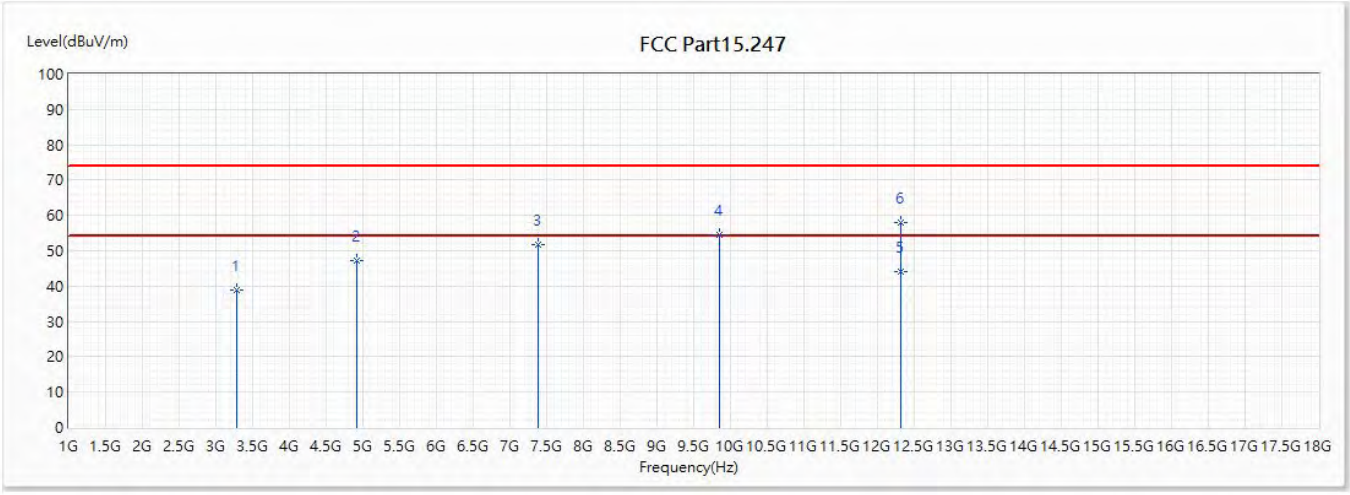


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3282	41.27	74.00	-32.73	36.87	4.40	PK
2	4924	47.19	74.00	-26.81	36.66	10.53	PK
3	7386	51.56	74.00	-22.44	34.89	16.67	PK
4	9848	54.23	74.00	-19.77	33.53	20.70	PK
* 5	12310	44.01	54.00	-9.99	19.50	24.51	AV
6	12310	57.45	74.00	-16.55	32.94	24.51	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2462MHz		

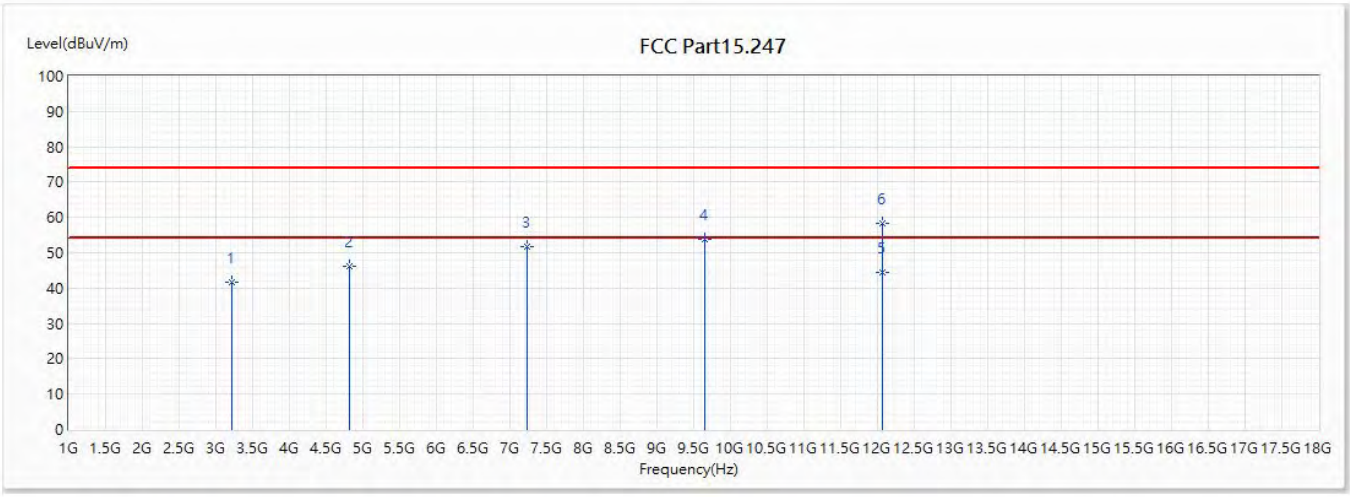


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3282	38.90	74.00	-35.10	34.50	4.40	PK
2	4924	47.28	74.00	-26.72	36.75	10.53	PK
3	7386	51.70	74.00	-22.30	35.03	16.67	PK
4	9848	54.47	74.00	-19.53	33.77	20.70	PK
* 5	12310	44.25	54.00	-9.75	19.74	24.51	AV
6	12310	57.82	74.00	-16.18	33.31	24.51	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2412MHz		

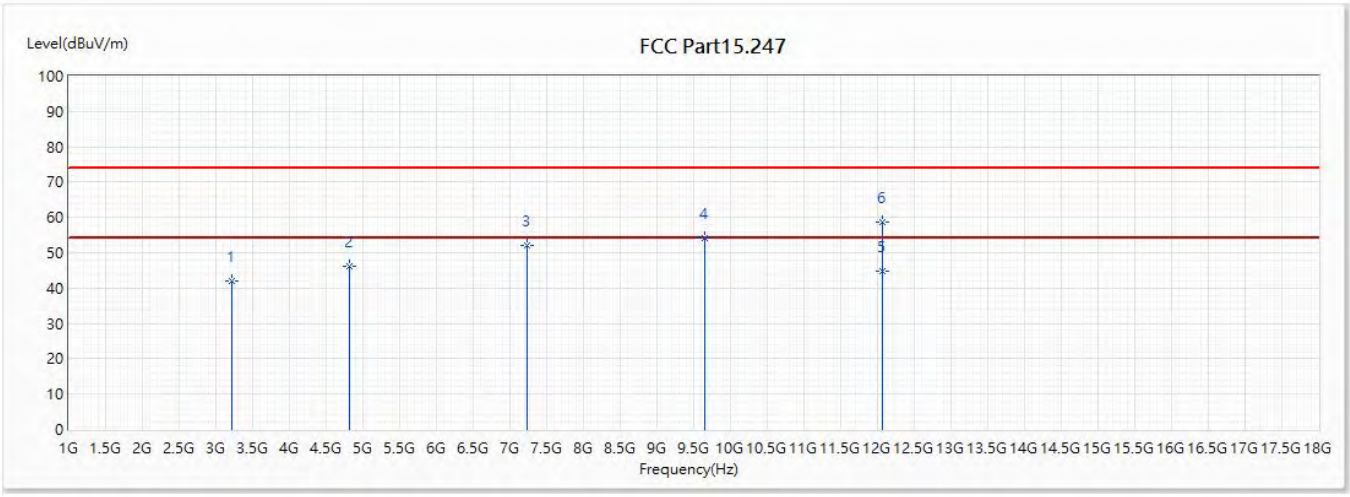


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3216	41.54	74.00	-32.46	37.46	4.08	PK
2	4824	46.16	74.00	-27.84	36.24	9.92	PK
3	7236	51.87	74.00	-22.13	35.33	16.54	PK
4	9648	53.74	74.00	-20.26	33.01	20.73	PK
* 5	12060	44.58	54.00	-9.42	20.73	23.85	AV
6	12060	58.22	74.00	-15.78	34.37	23.85	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2412MHz		

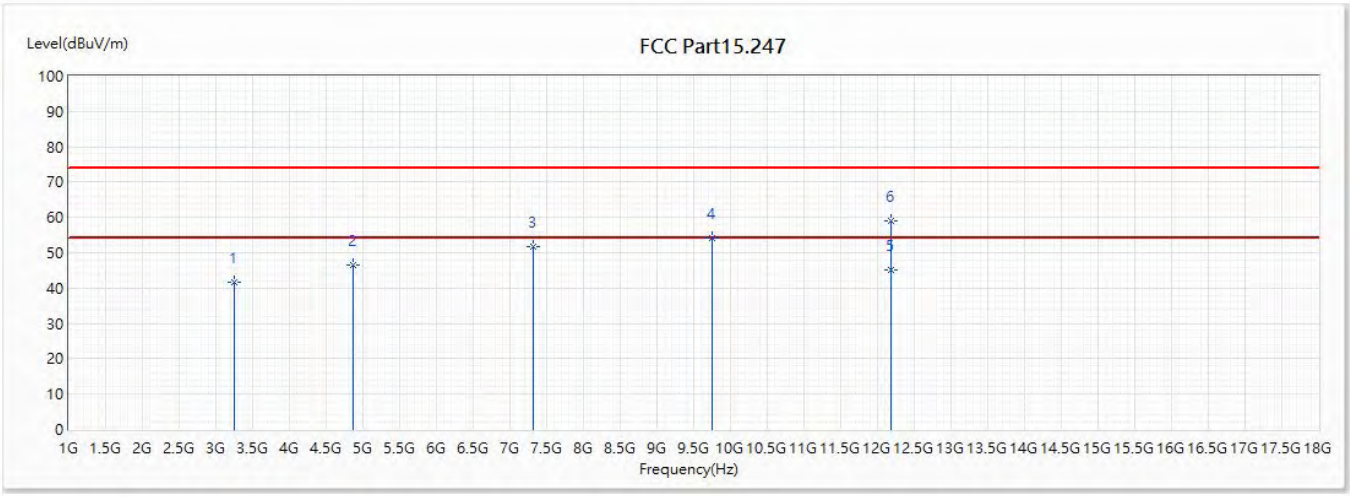


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3216	41.85	74.00	-32.15	37.77	4.08	PK
2	4824	46.20	74.00	-27.80	36.28	9.92	PK
3	7236	52.21	74.00	-21.79	35.67	16.54	PK
4	9648	54.05	74.00	-19.95	33.32	20.73	PK
* 5	12060	44.74	54.00	-9.26	20.89	23.85	AV
6	12060	58.62	74.00	-15.38	34.77	23.85	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2437MHz		

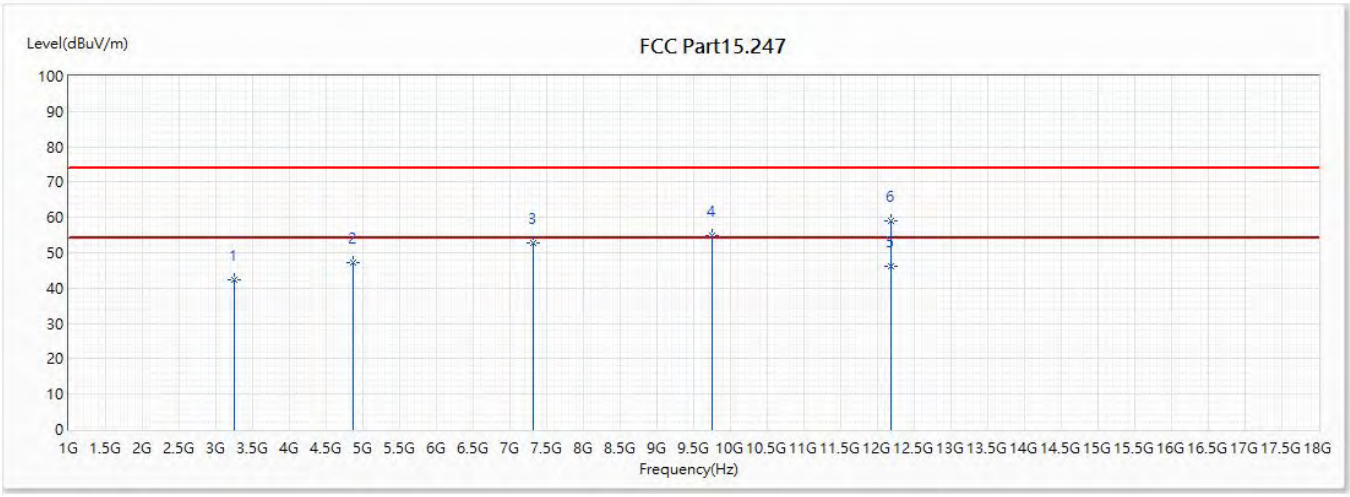


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3249	41.82	74.00	-32.18	37.57	4.25	PK
2	4874	46.41	74.00	-27.59	36.14	10.27	PK
3	7311	51.61	74.00	-22.39	35.03	16.58	PK
4	9748	54.27	74.00	-19.73	33.76	20.51	PK
* 5	12185	45.14	54.00	-8.86	20.58	24.56	AV
6	12185	58.87	74.00	-15.13	34.31	24.56	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2437MHz		

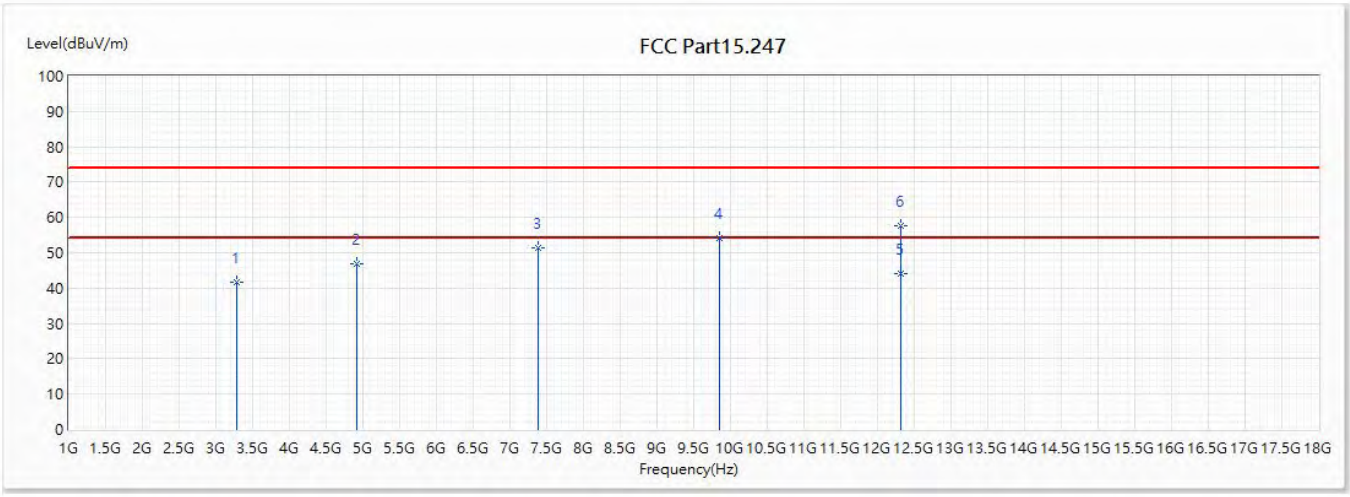


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3249	42.38	74.00	-31.62	38.13	4.25	PK
2	4874	47.19	74.00	-26.81	36.92	10.27	PK
3	7311	52.88	74.00	-21.12	36.30	16.58	PK
4	9748	54.97	74.00	-19.03	34.46	20.51	PK
* 5	12185	46.26	54.00	-7.74	21.70	24.56	AV
6	12185	59.11	74.00	-14.89	34.55	24.56	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2462MHz		

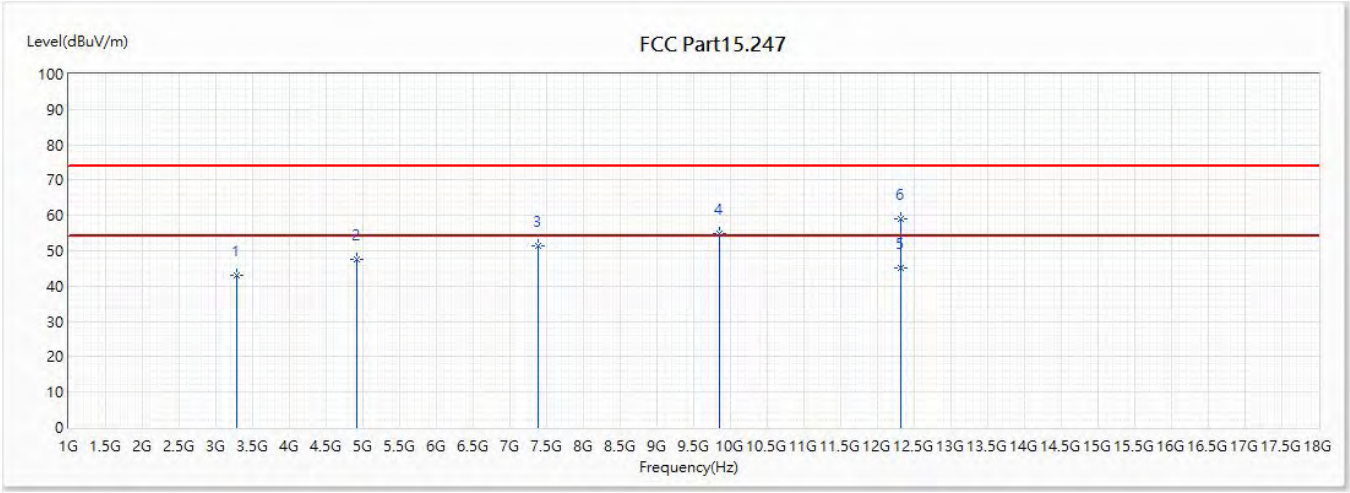


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3282	41.68	74.00	-32.32	37.28	4.40	PK
2	4924	46.84	74.00	-27.16	36.31	10.53	PK
3	7386	51.30	74.00	-22.70	34.63	16.67	PK
4	9848	54.09	74.00	-19.91	33.39	20.70	PK
* 5	12310	44.11	54.00	-9.89	19.60	24.51	AV
6	12310	57.51	74.00	-16.49	33.00	24.51	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2462MHz		

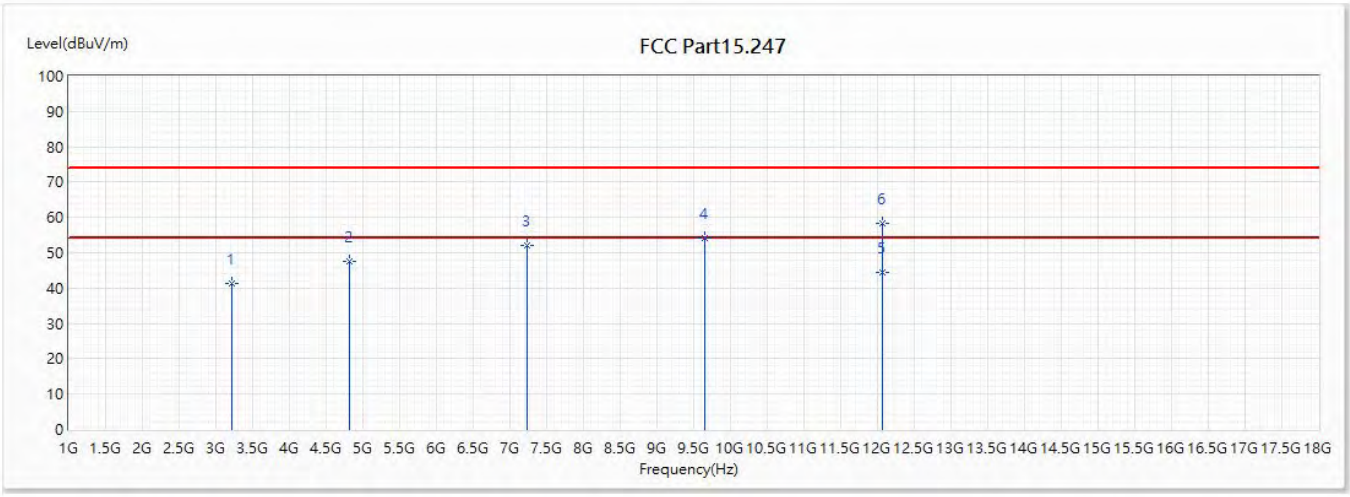


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3282	43.04	74.00	-30.96	38.64	4.40	PK
2	4924	47.71	74.00	-26.29	37.18	10.53	PK
3	7386	51.41	74.00	-22.59	34.74	16.67	PK
4	9848	54.82	74.00	-19.18	34.12	20.70	PK
* 5	12310	45.19	54.00	-8.81	20.68	24.51	AV
6	12310	58.94	74.00	-15.06	34.43	24.51	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2412MHz		

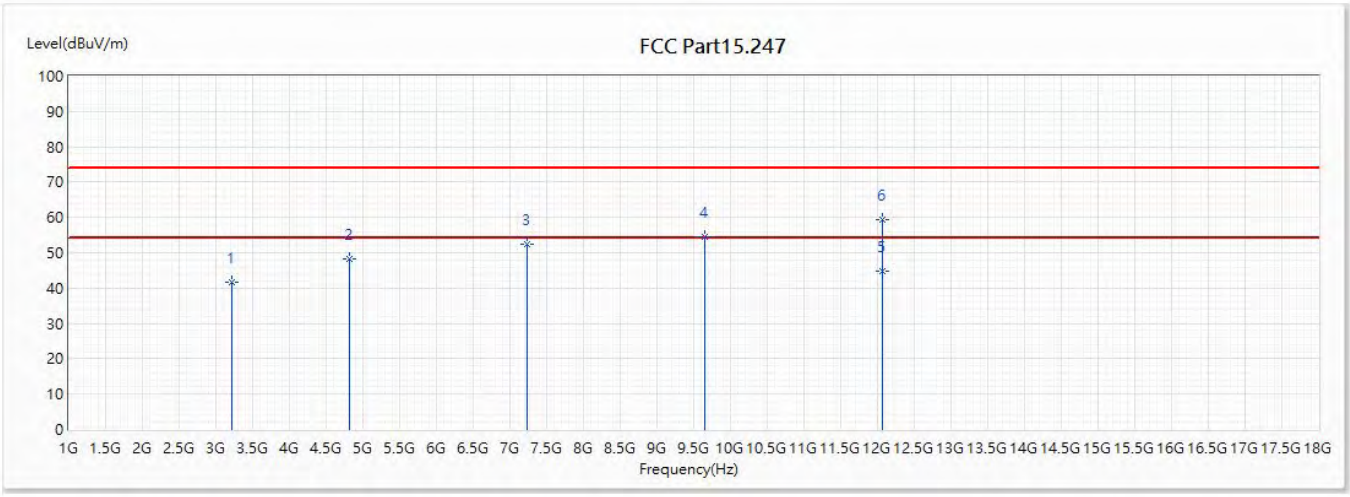


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3216	41.40	74.00	-32.60	37.32	4.08	PK
2	4824	47.65	74.00	-26.35	37.73	9.92	PK
3	7236	52.13	74.00	-21.87	35.59	16.54	PK
4	9648	54.10	74.00	-19.90	33.37	20.73	PK
* 5	12060	44.49	54.00	-9.51	20.64	23.85	AV
6	12060	58.35	74.00	-15.65	34.50	23.85	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2412MHz		

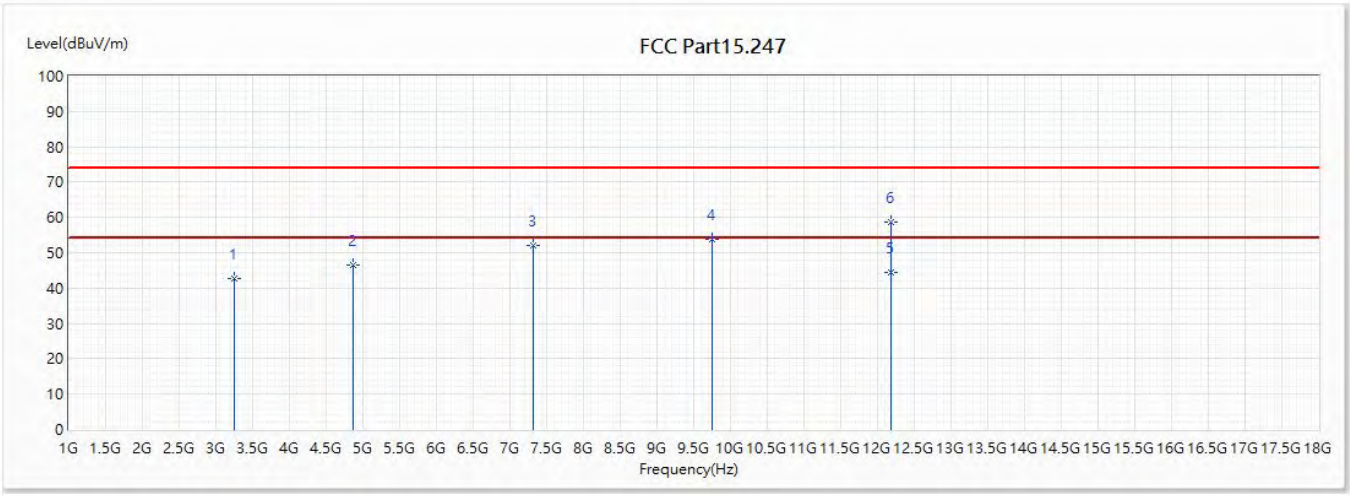


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3216	41.64	74.00	-32.36	37.56	4.08	PK
2	4824	48.12	74.00	-25.88	38.20	9.92	PK
3	7236	52.28	74.00	-21.72	35.74	16.54	PK
4	9648	54.43	74.00	-19.57	33.70	20.73	PK
* 5	12060	44.70	54.00	-9.30	20.85	23.85	AV
6	12060	59.24	74.00	-14.76	35.39	23.85	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2437MHz		

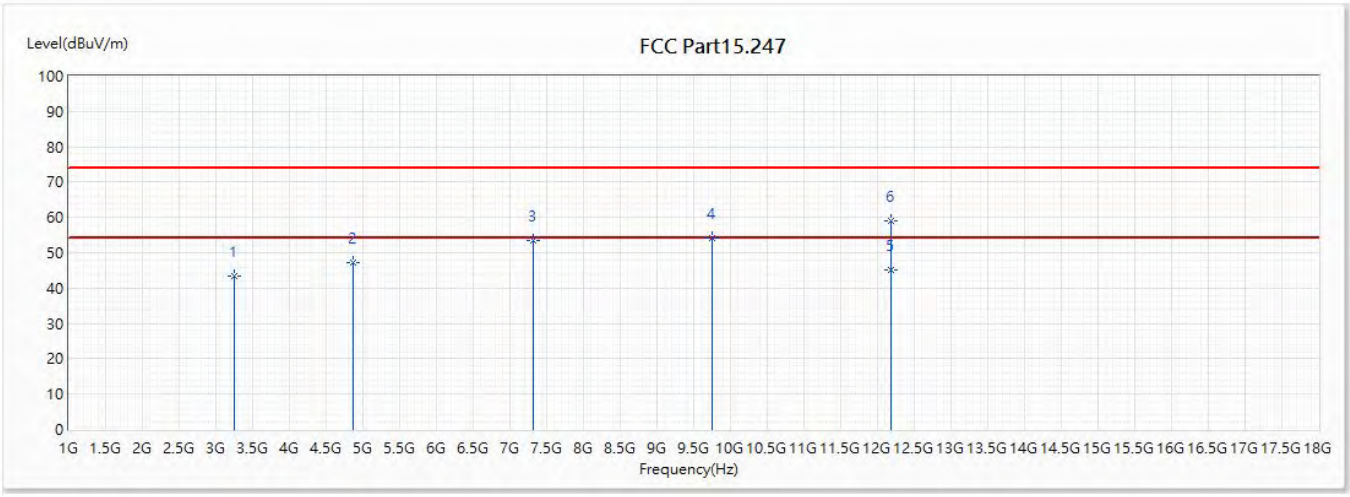


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3249	42.54	74.00	-31.46	38.29	4.25	PK
2	4874	46.54	74.00	-27.46	36.27	10.27	PK
3	7311	52.25	74.00	-21.75	35.67	16.58	PK
4	9748	53.66	74.00	-20.34	33.15	20.51	PK
* 5	12185	44.57	54.00	-9.43	20.01	24.56	AV
6	12185	58.75	74.00	-15.25	34.19	24.56	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2437MHz		

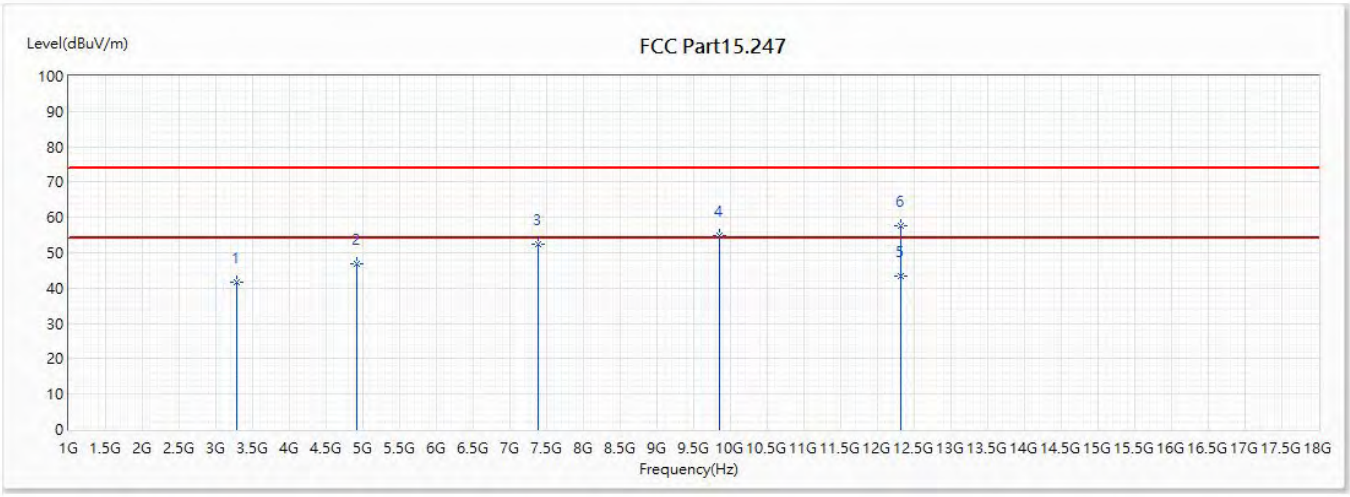


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3249	43.35	74.00	-30.65	39.10	4.25	PK
2	4874	47.17	74.00	-26.83	36.90	10.27	PK
3	7311	53.37	74.00	-20.63	36.79	16.58	PK
4	9748	54.13	74.00	-19.87	33.62	20.51	PK
* 5	12185	45.31	54.00	-8.69	20.75	24.56	AV
6	12185	59.14	74.00	-14.86	34.58	24.56	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2462MHz		

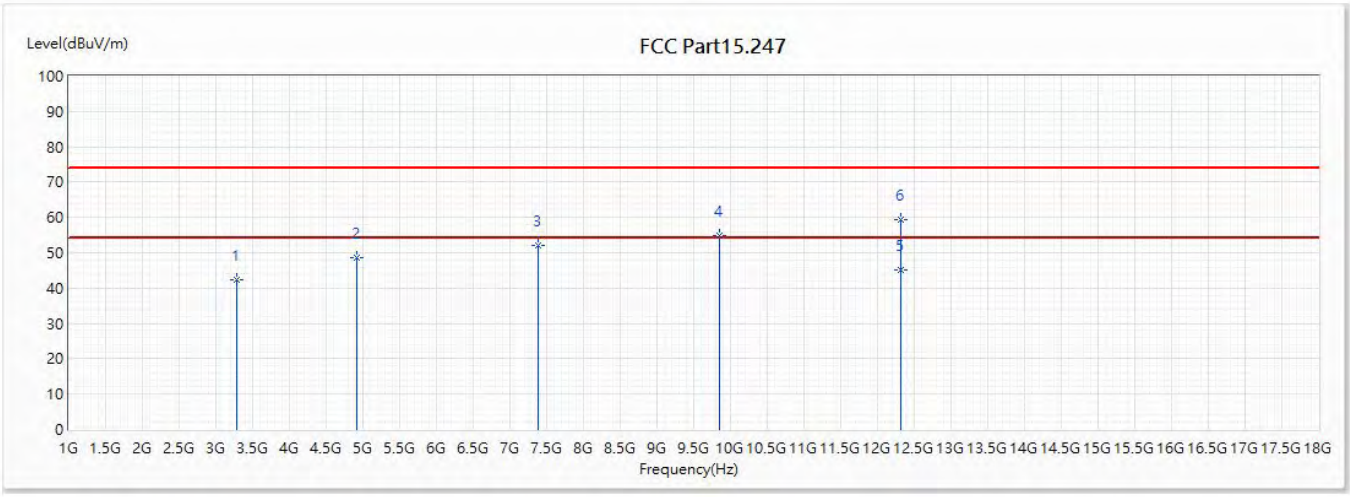


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3282	41.78	74.00	-32.22	37.38	4.40	PK
2	4924	47.01	74.00	-26.99	36.48	10.53	PK
3	7386	52.30	74.00	-21.70	35.63	16.67	PK
4	9848	54.79	74.00	-19.21	34.09	20.70	PK
* 5	12310	43.49	54.00	-10.51	18.98	24.51	AV
6	12310	57.78	74.00	-16.22	33.27	24.51	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2462MHz		

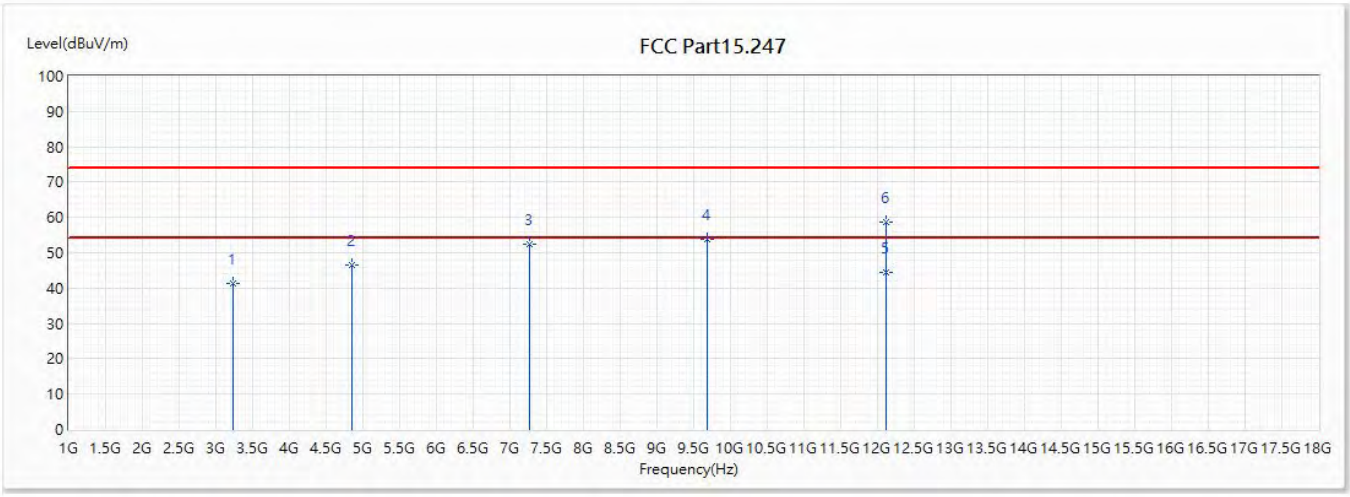


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3282	42.22	74.00	-31.78	37.82	4.40	PK
2	4924	48.46	74.00	-25.54	37.93	10.53	PK
3	7386	51.96	74.00	-22.04	35.29	16.67	PK
4	9848	54.96	74.00	-19.04	34.26	20.70	PK
* 5	12310	45.13	54.00	-8.87	20.62	24.51	AV
6	12310	59.36	74.00	-14.64	34.85	24.51	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2422MHz		

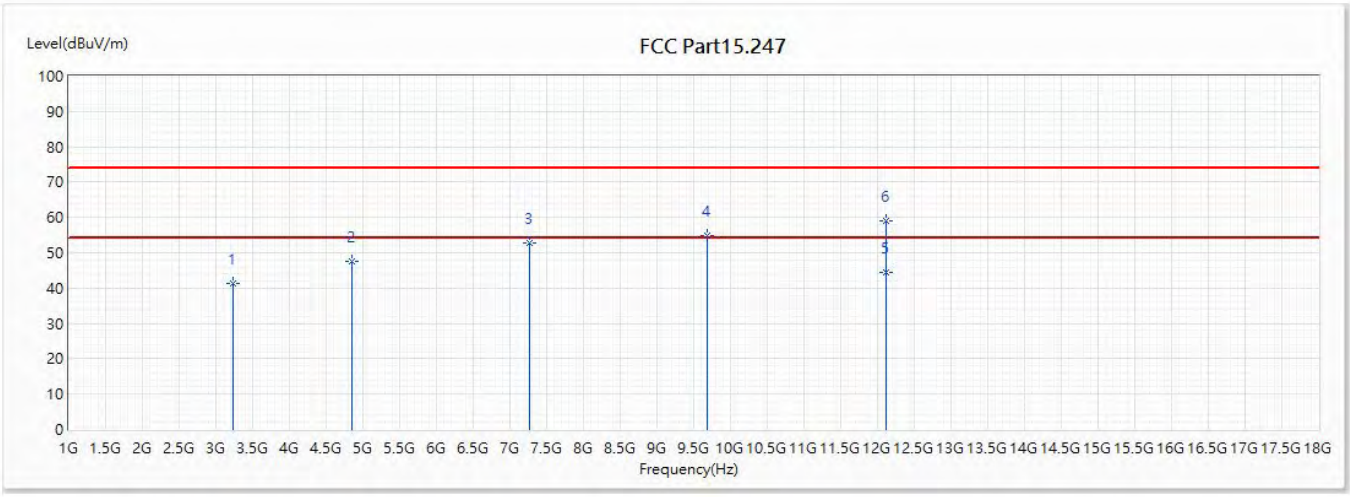


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3229	41.22	74.00	-32.78	37.08	4.14	PK
2	4844	46.53	74.00	-27.47	36.47	10.06	PK
3	7266	52.40	74.00	-21.60	35.85	16.55	PK
4	9688	53.87	74.00	-20.13	33.20	20.67	PK
* 5	12110	44.44	54.00	-9.56	20.59	23.85	AV
6	12110	58.56	74.00	-15.44	34.71	23.85	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2422MHz		

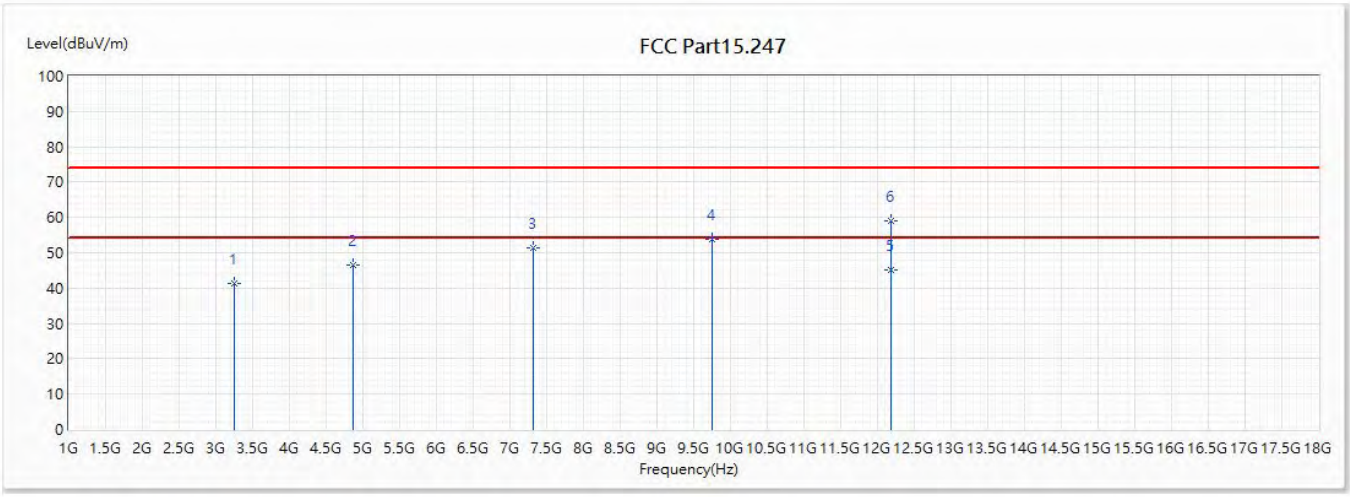


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3229	41.47	74.00	-32.53	37.33	4.14	PK
2	4844	47.46	74.00	-26.54	37.40	10.06	PK
3	7266	52.81	74.00	-21.19	36.26	16.55	PK
4	9688	54.84	74.00	-19.16	34.17	20.67	PK
* 5	12110	44.59	54.00	-9.41	20.74	23.85	AV
6	12110	58.97	74.00	-15.03	35.12	23.85	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2437MHz		

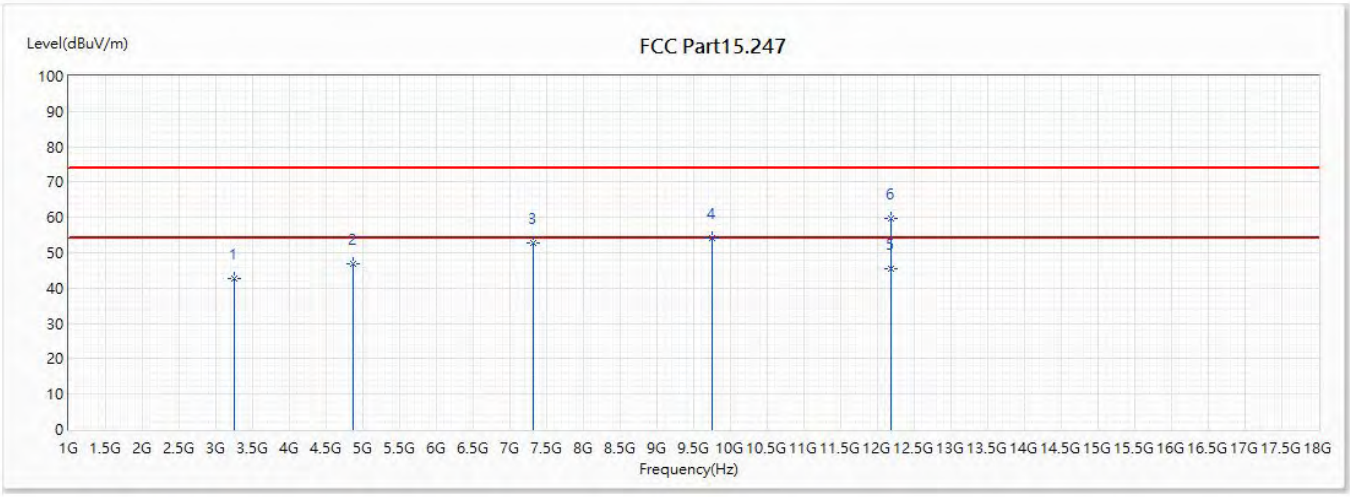


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3249	41.43	74.00	-32.57	37.18	4.25	PK
2	4874	46.66	74.00	-27.34	36.39	10.27	PK
3	7311	51.27	74.00	-22.73	34.69	16.58	PK
4	9748	53.92	74.00	-20.08	33.41	20.51	PK
* 5	12185	45.01	54.00	-8.99	20.45	24.56	AV
6	12185	59.06	74.00	-14.94	34.50	24.56	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2437MHz		

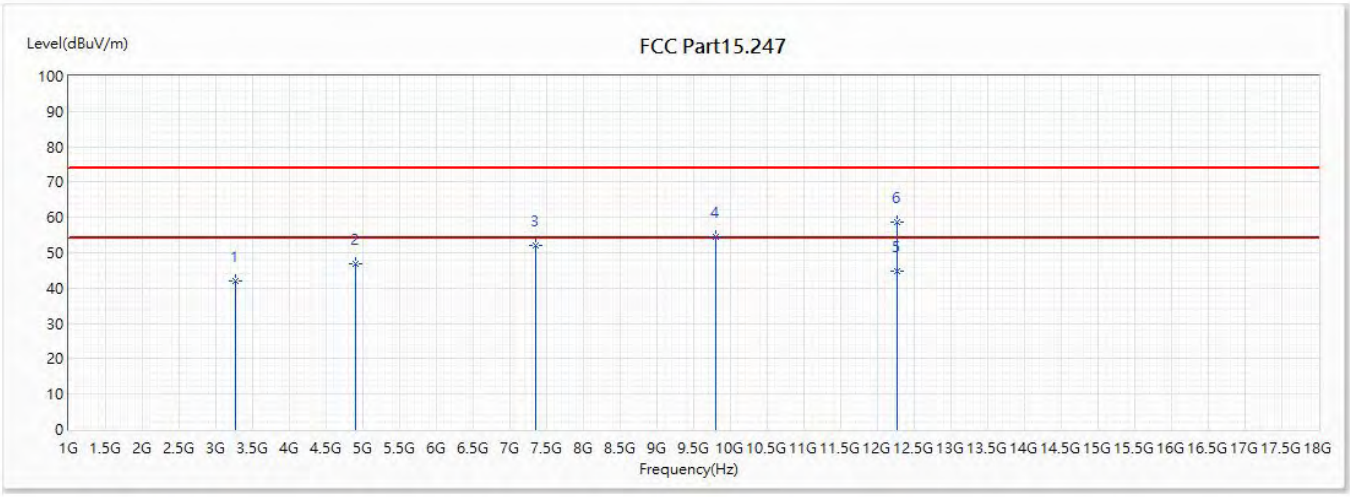


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3249	42.55	74.00	-31.45	38.30	4.25	PK
2	4874	46.89	74.00	-27.11	36.62	10.27	PK
3	7311	52.91	74.00	-21.09	36.33	16.58	PK
4	9748	54.31	74.00	-19.69	33.80	20.51	PK
* 5	12185	45.58	54.00	-8.42	21.02	24.56	AV
6	12185	59.64	74.00	-14.36	35.08	24.56	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2452MHz		

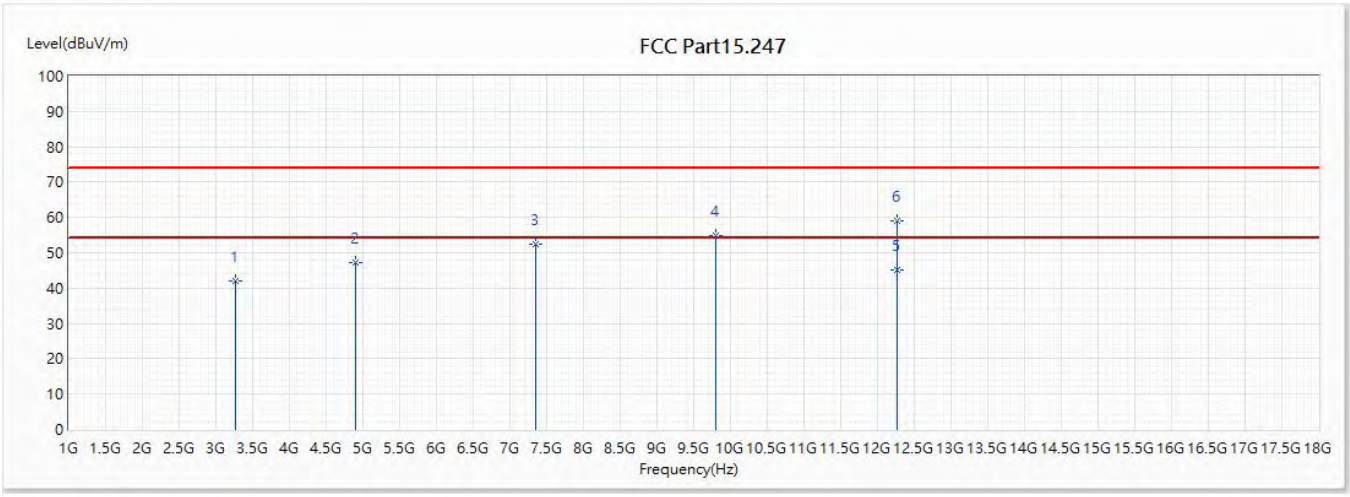


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3269	41.93	74.00	-32.07	37.59	4.34	PK
2	4904	46.73	74.00	-27.27	36.24	10.49	PK
3	7356	51.95	74.00	-22.05	35.32	16.63	PK
4	9808	54.61	74.00	-19.39	33.99	20.62	PK
* 5	12260	44.93	54.00	-9.07	20.12	24.81	AV
6	12260	58.71	74.00	-15.29	33.90	24.81	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/27
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	42.06	74.00	-31.94	37.72	4.34	PK
2	4904	47.15	74.00	-26.85	36.66	10.49	PK
3	7356	52.34	74.00	-21.66	35.71	16.63	PK
4	9808	54.73	74.00	-19.27	34.11	20.62	PK
* 5	12260	45.07	54.00	-8.93	20.26	24.81	AV
6	12260	58.90	74.00	-15.10	34.09	24.81	PK

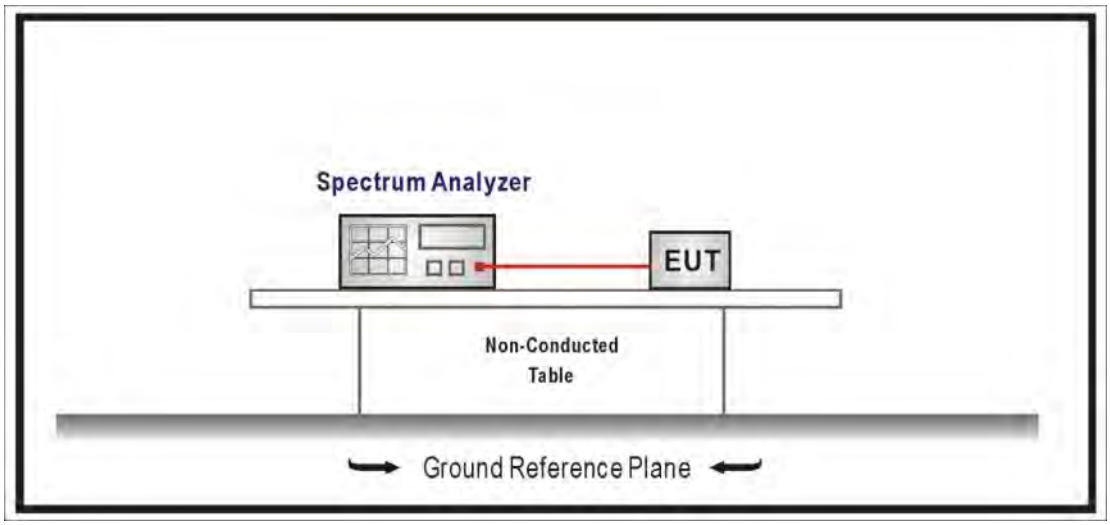
Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement 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 less than 20dBm form the limt, so as not reported.

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 or digitally modulated 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 either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

5.3. Test Procdure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure section 11.2 of KDB558074 D01 V05 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

5.4. Test Specification

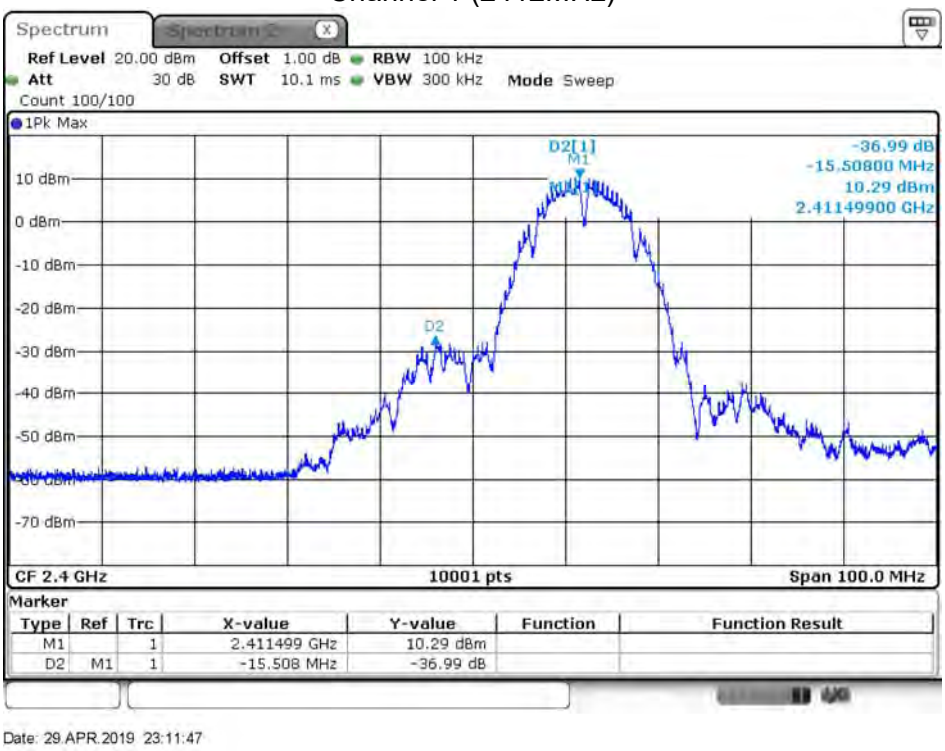
According to FCC Part 15 Subpart C Paragraph 15.247: 2017

5.5. Test Result

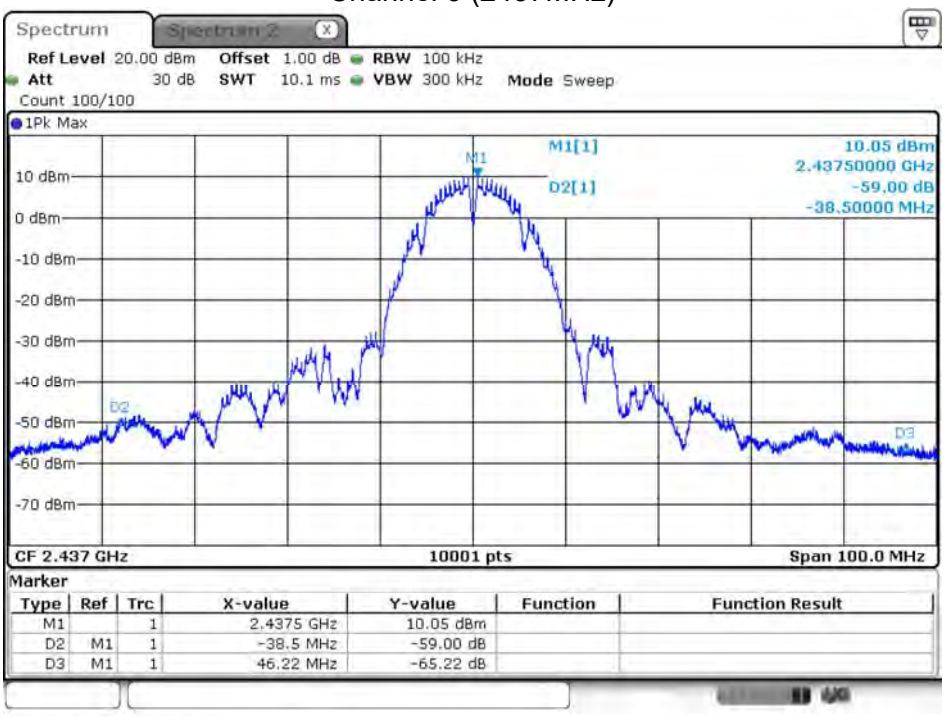
Product	NAIL PRINTER		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/29	Test Site	SR10-H

IEEE 802.11b (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	36.99	≧20	Pass
6	2437	55.41	≧20	Pass
11	2462	53.11	≧20	Pass

Channel 1 (2412MHz)

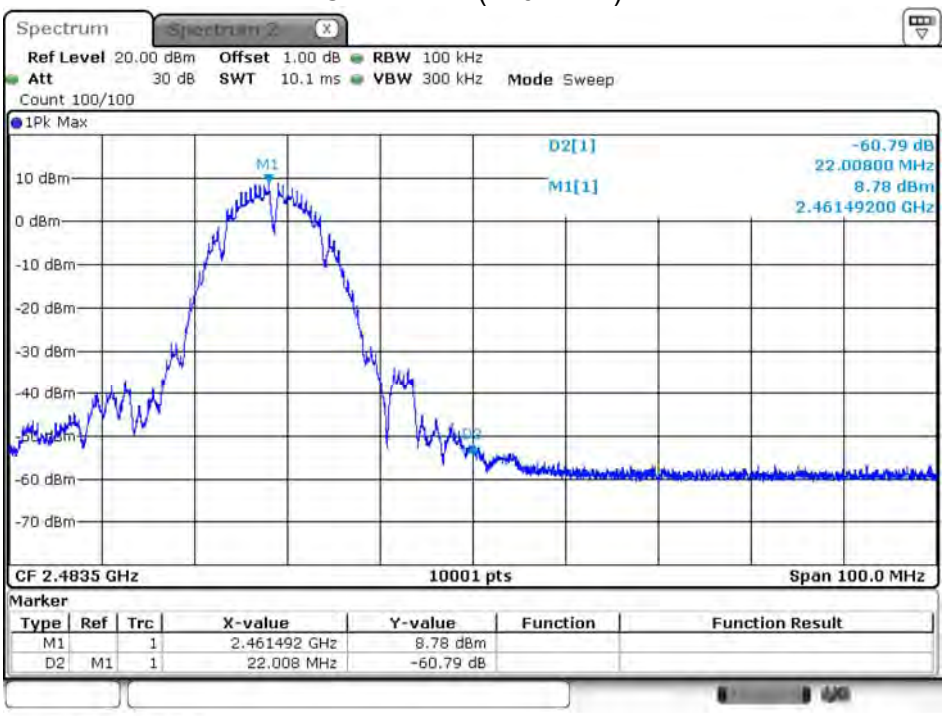


Channel 6 (2437MHz)



Date: 29.APR.2019 22:15:35

Channel 11 (2462MHz)

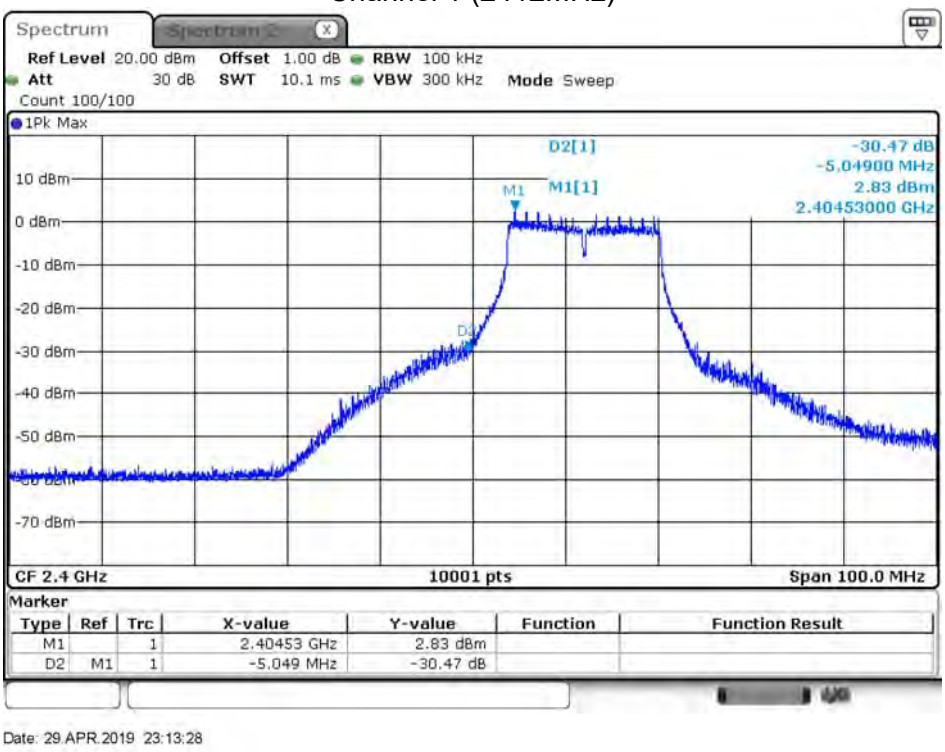


Date: 29.APR.2019 23:16:03

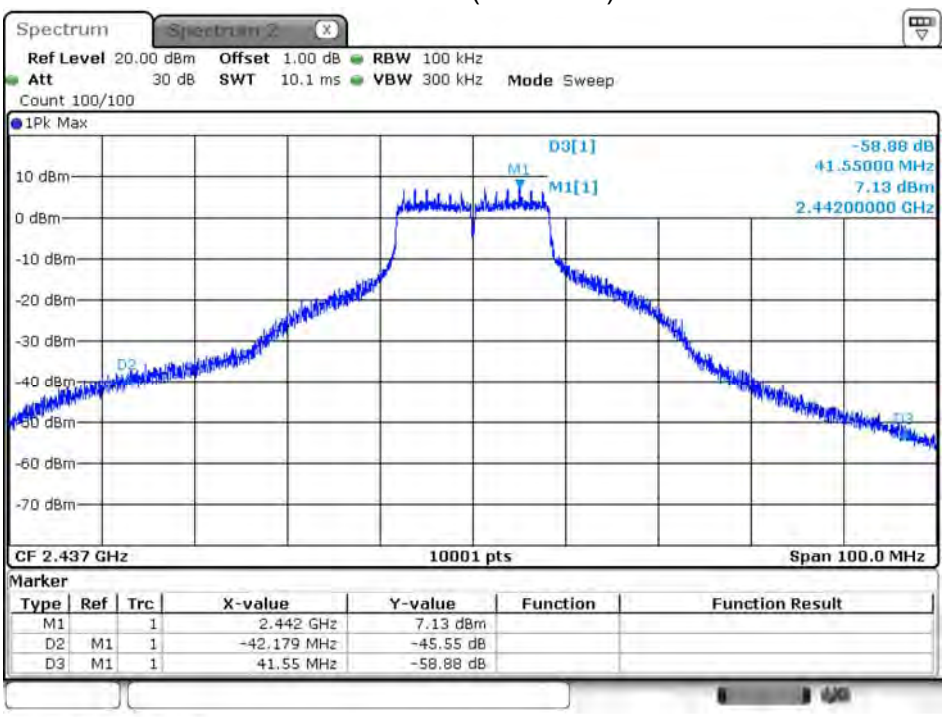
Product	NAIL PRINTER		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/29	Test Site	SR10-H

IEEE 802.11g (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	30.47	≧20	Pass
6	2437	45.55	≧20	Pass
11	2462	40.79	≧20	Pass

Channel 1 (2412MHz)

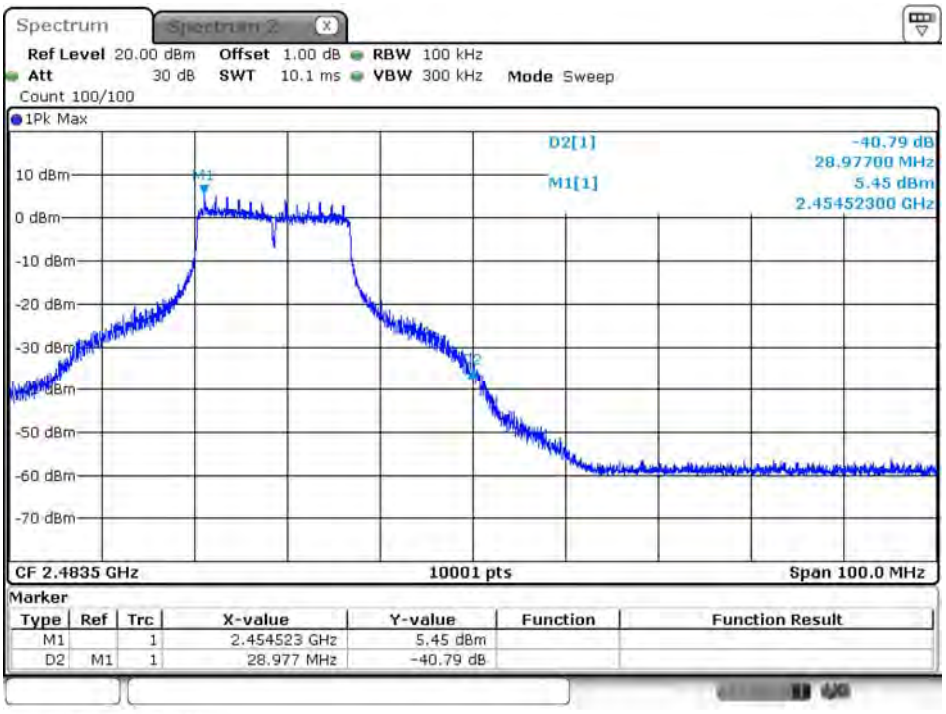


Channel 6 (2437MHz)



Date: 29.APR.2019 22:27:00

Channel 11 (2462MHz)

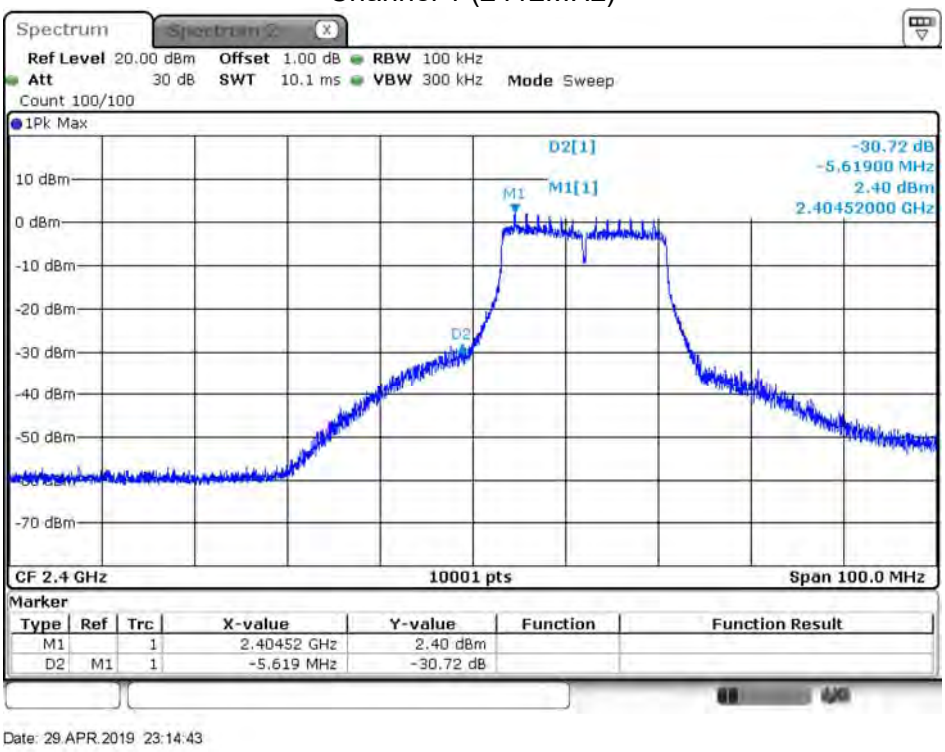


Date: 29.APR.2019 23:17:54

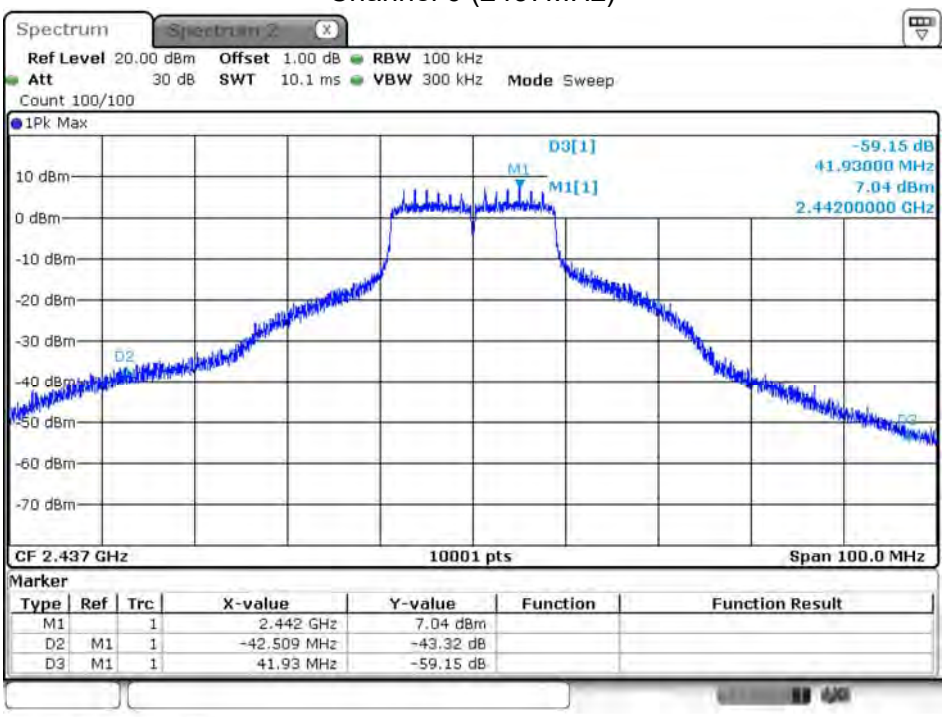
Product	NAIL PRINTER		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/29	Test Site	SR10-H

IEEE 802.11n 20M (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	30.72	≧20	Pass
6	2437	43.32	≧20	Pass
11	2462	38.32	≧20	Pass

Channel 1 (2412MHz)

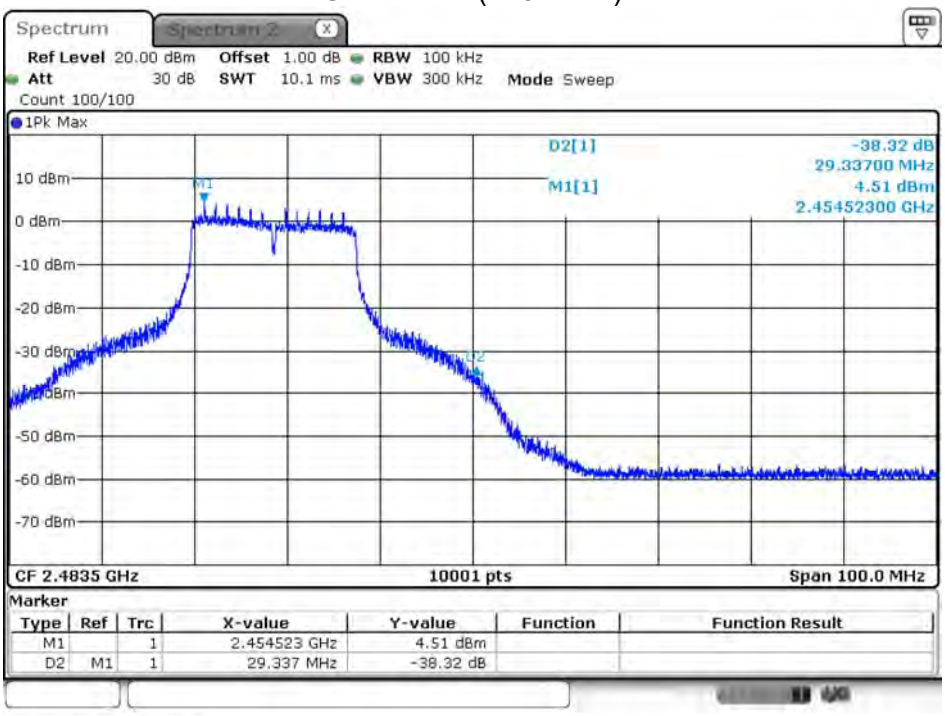


Channel 6 (2437MHz)



Date: 29.APR.2019 22:41:26

Channel 11 (2462MHz)

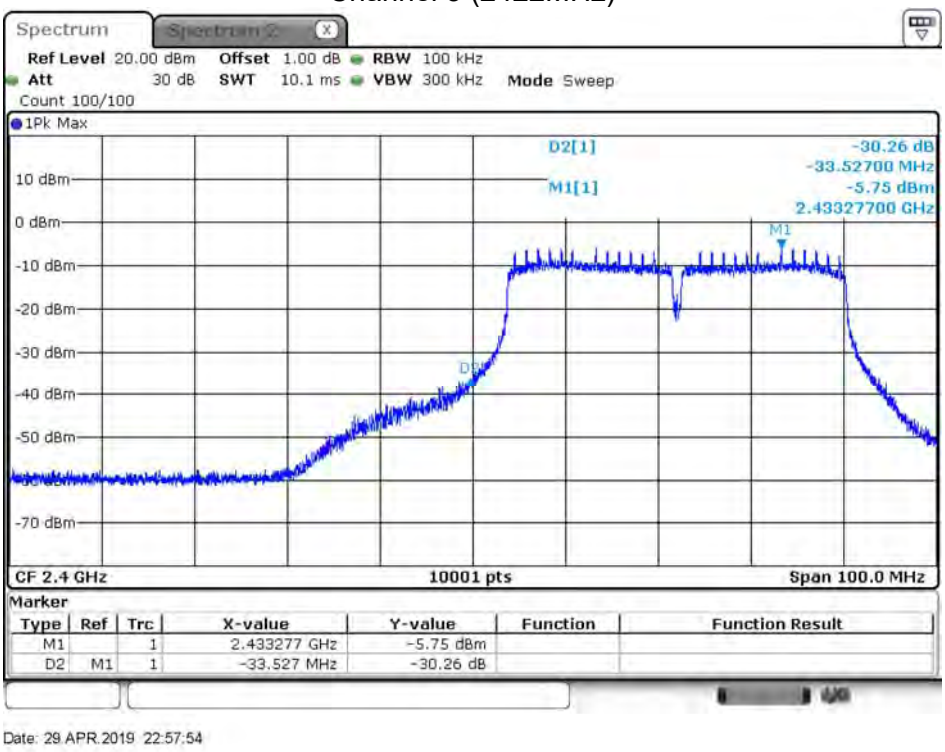


Date: 29.APR.2019 23:19:22

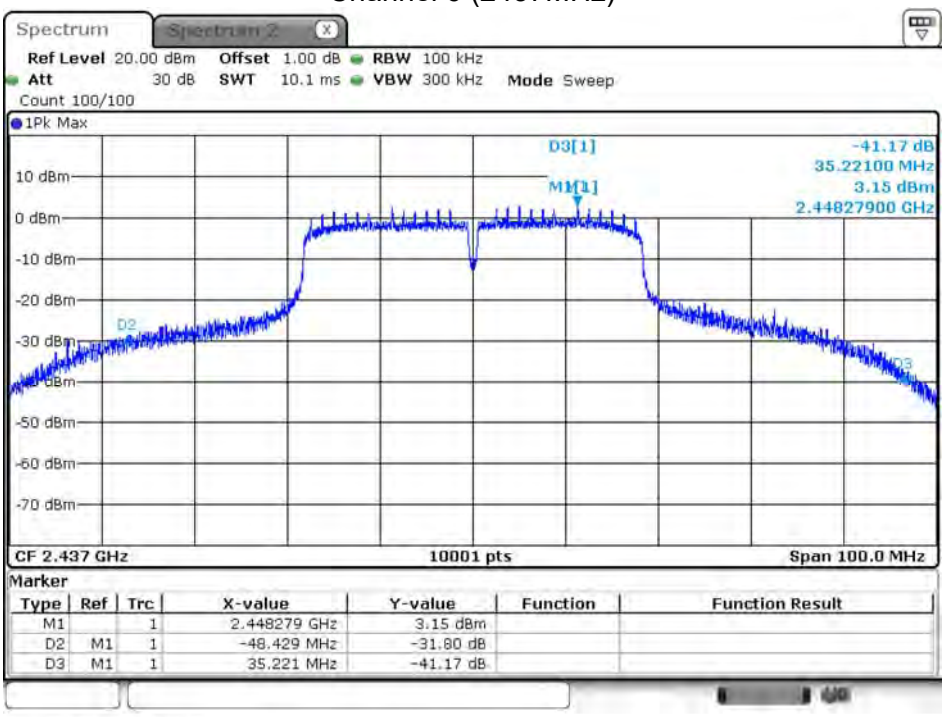
Product	NAIL PRINTER		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/29	Test Site	SR10-H

IEEE 802.11n 40M (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	30.26	≧20	Pass
6	2437	31.80	≧20	Pass
9	2452	37.82	≧20	Pass

Channel 3 (2422MHz)

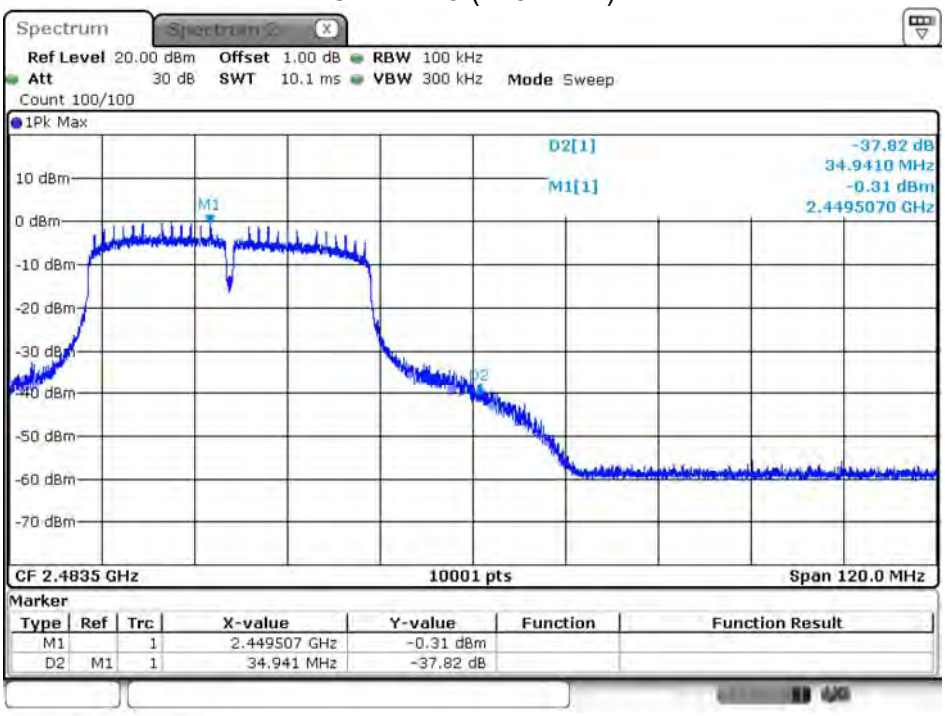


Channel 6 (2437MHz)



Date: 29.APR.2019 23:03:44

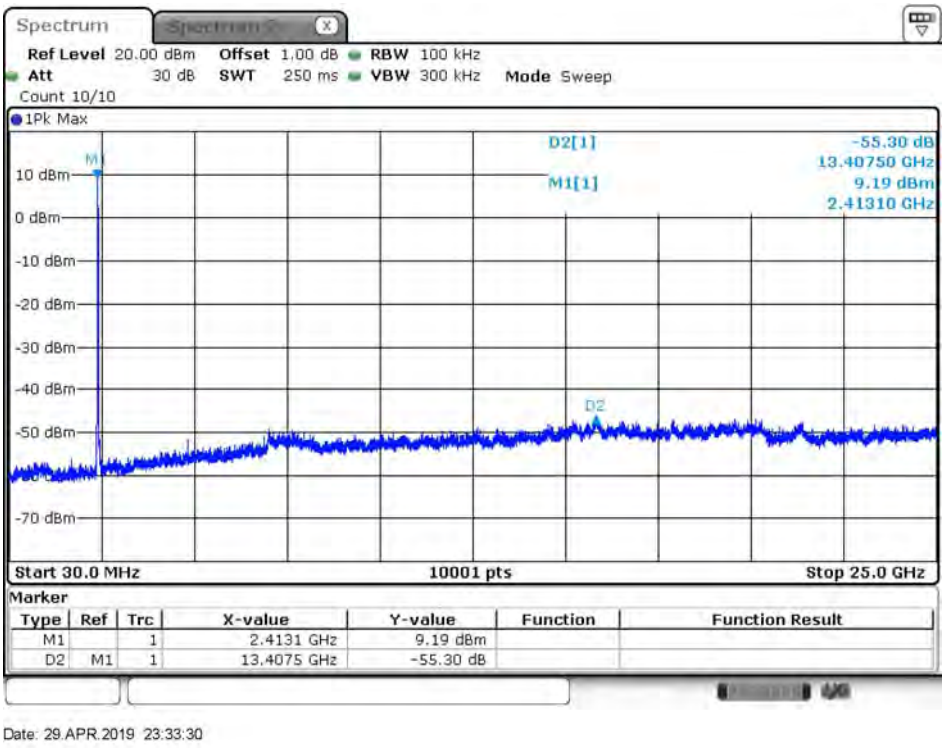
Channel 9 (2452MHz)



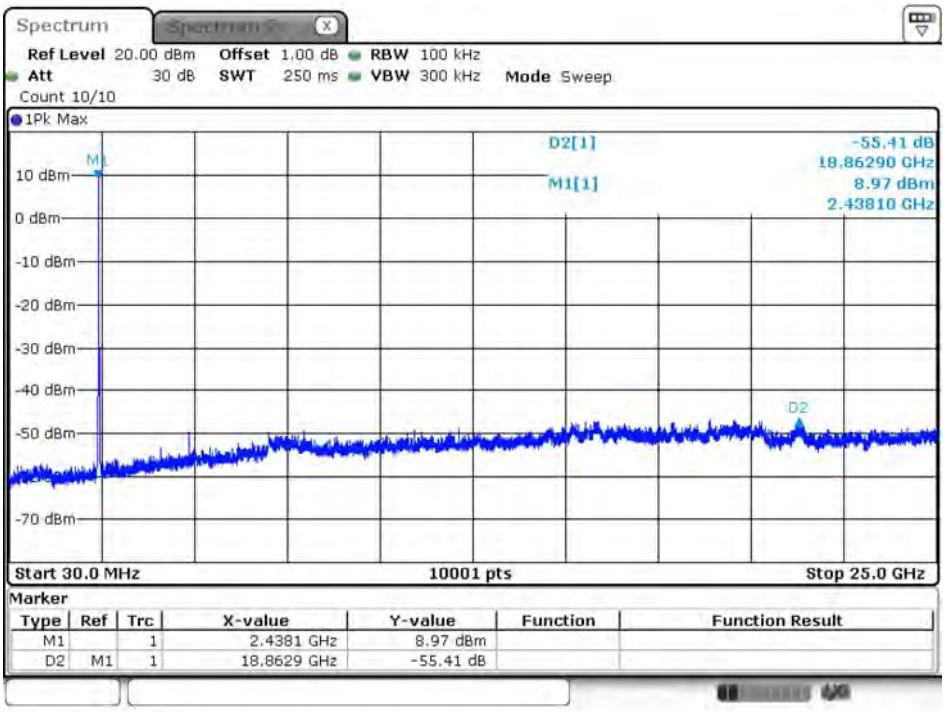
Date: 29.APR.2019 23:09:19

Product	NAIL PRINTER		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/29	Test Site	SR10-H

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

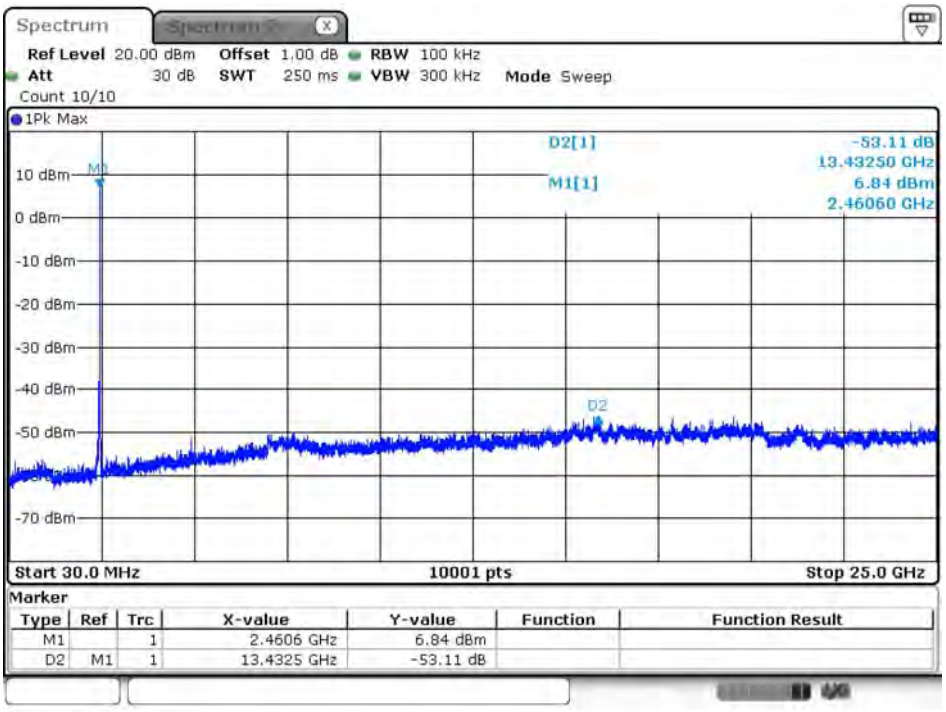


2437MHz (30MHz-25GHz)-802.11b-ANT 0



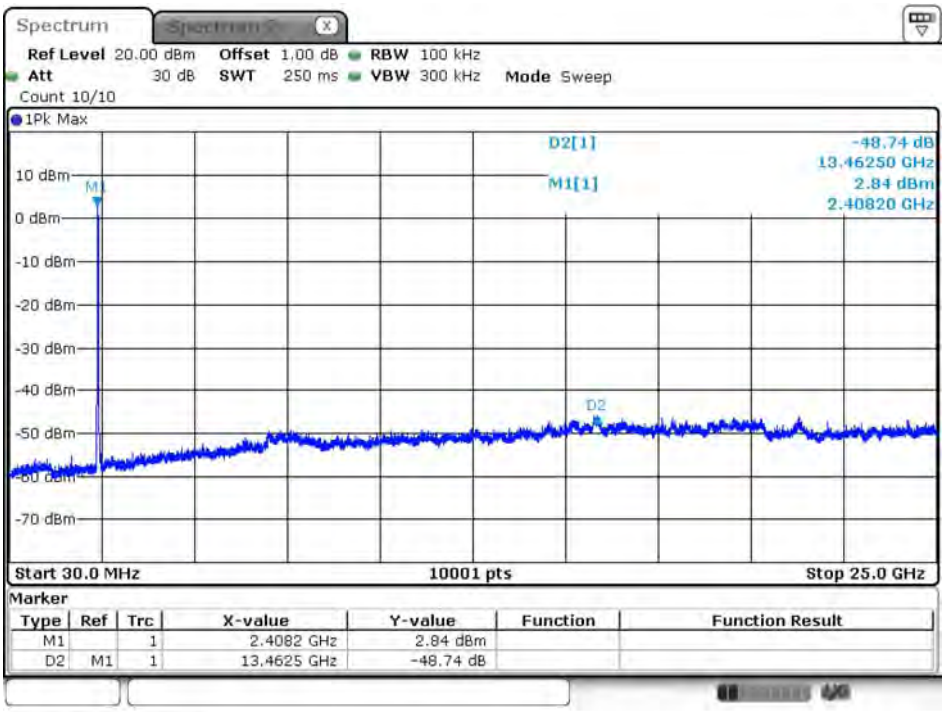
Date: 29.APR.2019 23:34:49

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



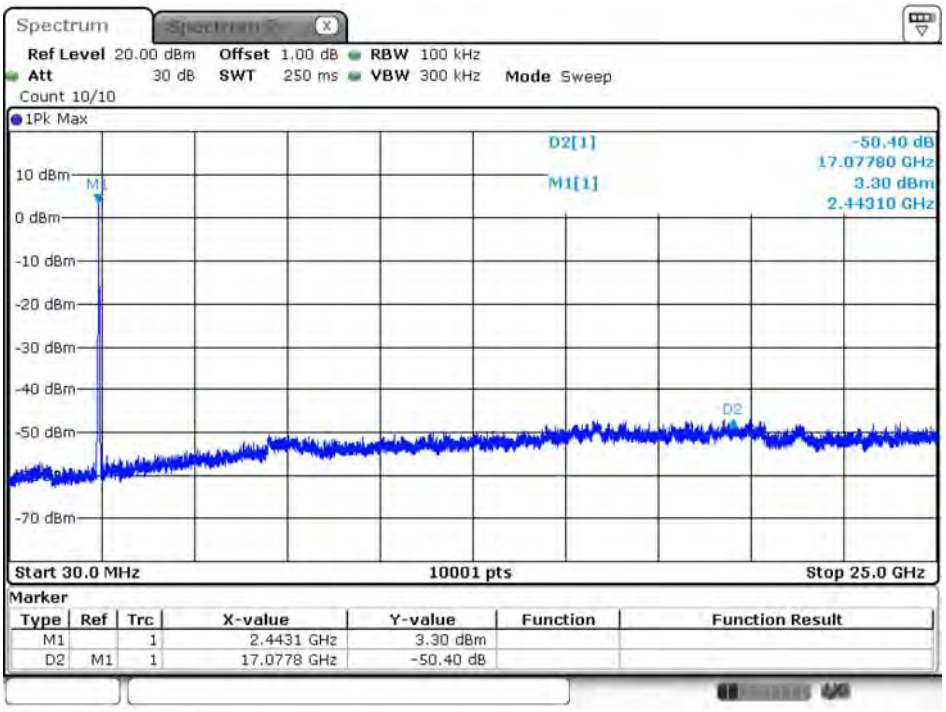
Date: 29.APR.2019 23:35:53

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



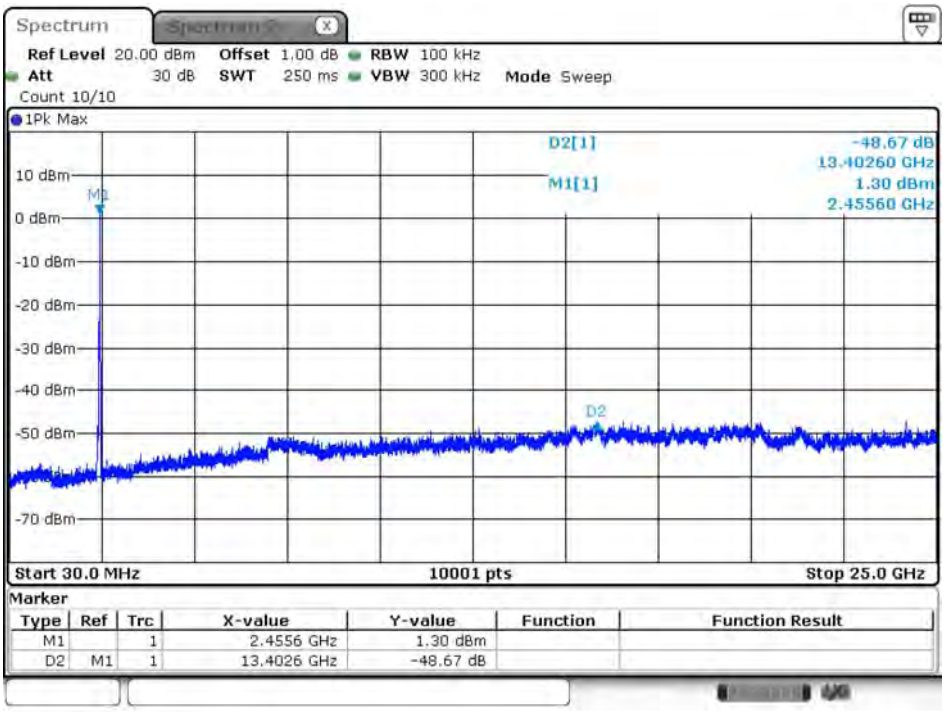
Date: 29.APR.2019 23:40:49

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



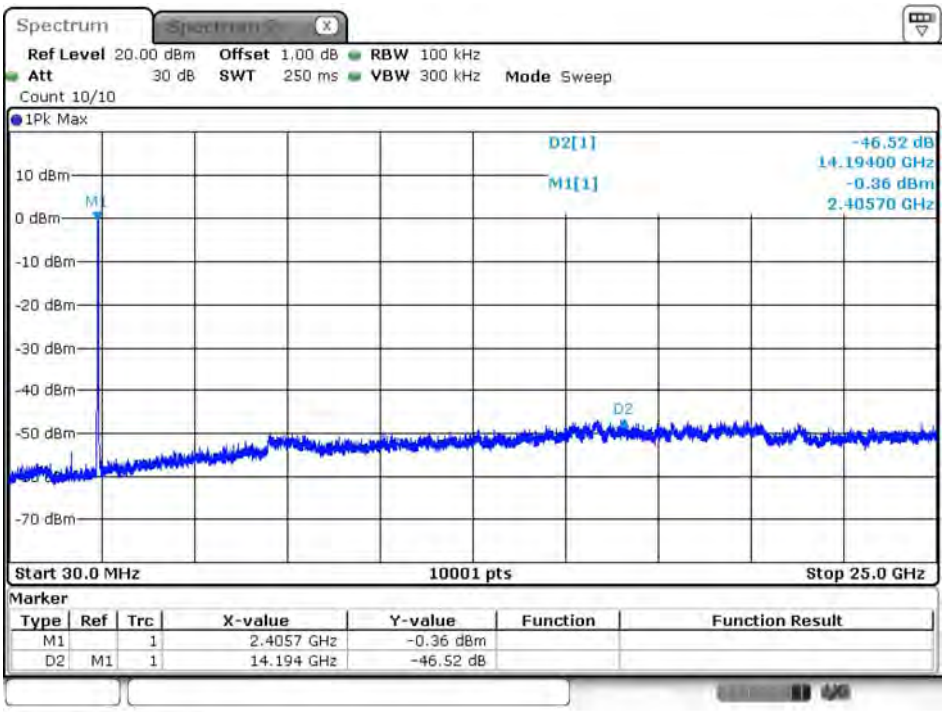
Date: 29.APR.2019 23:41:50

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



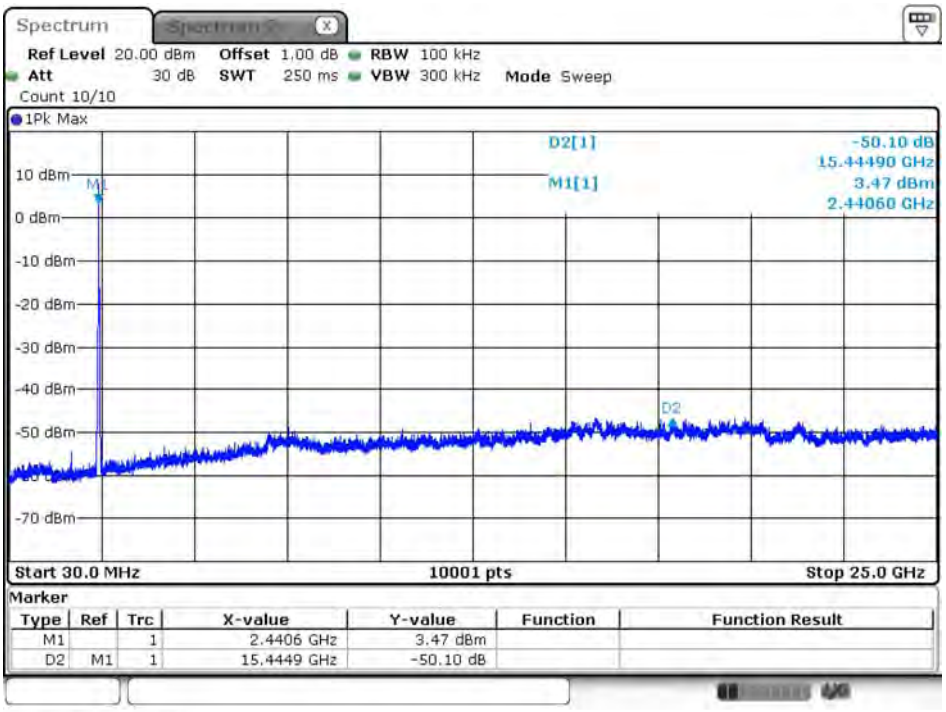
Date: 29.APR.2019 23:42:39

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



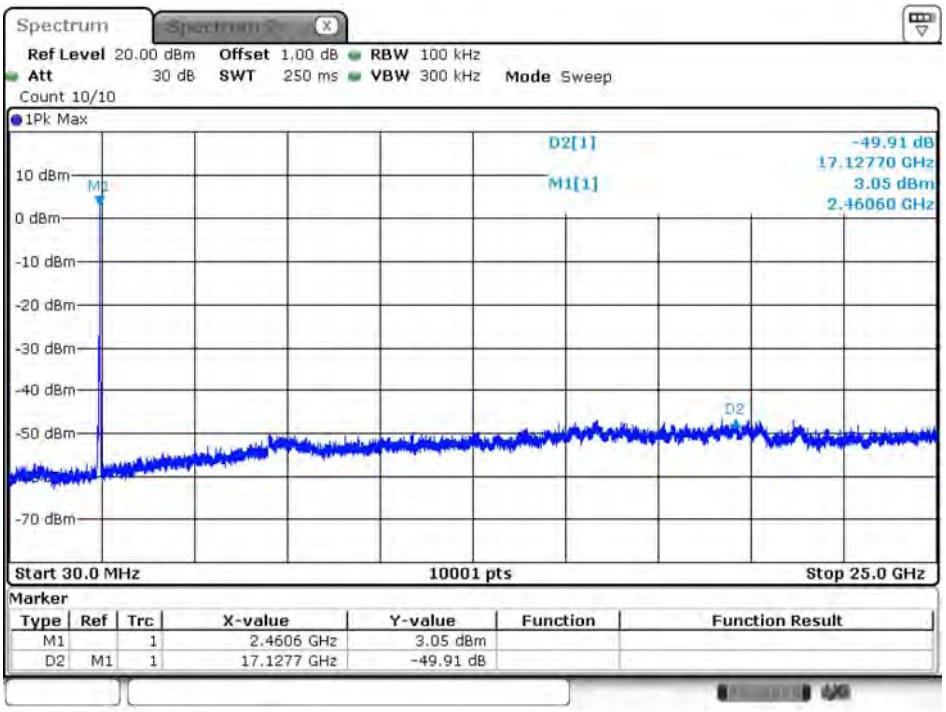
Date: 29.APR.2019 23:43:43

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



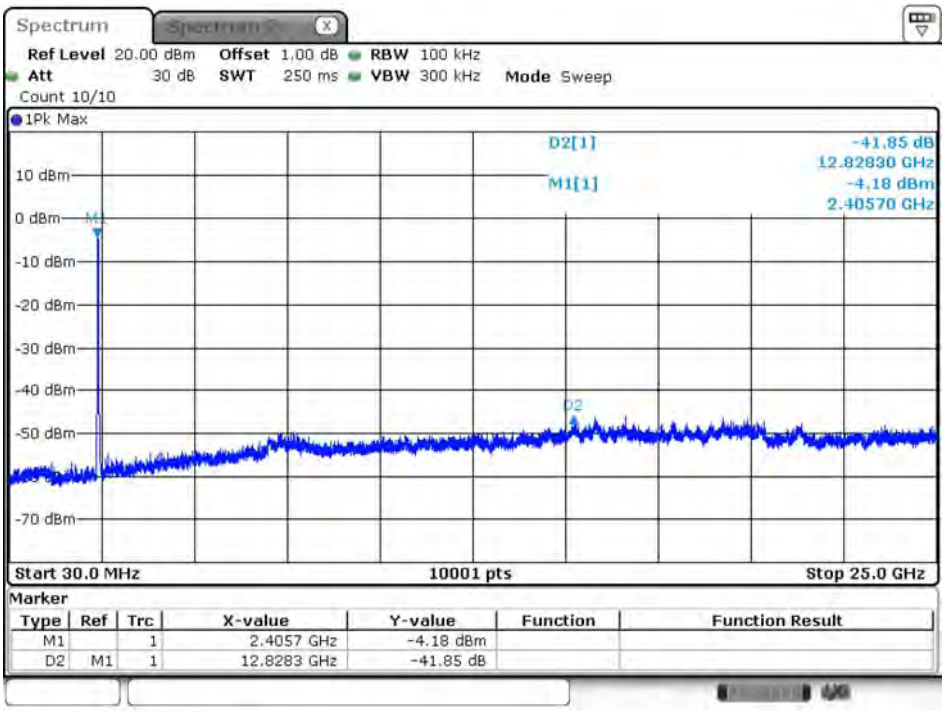
Date: 29.APR.2019 23:44:52

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



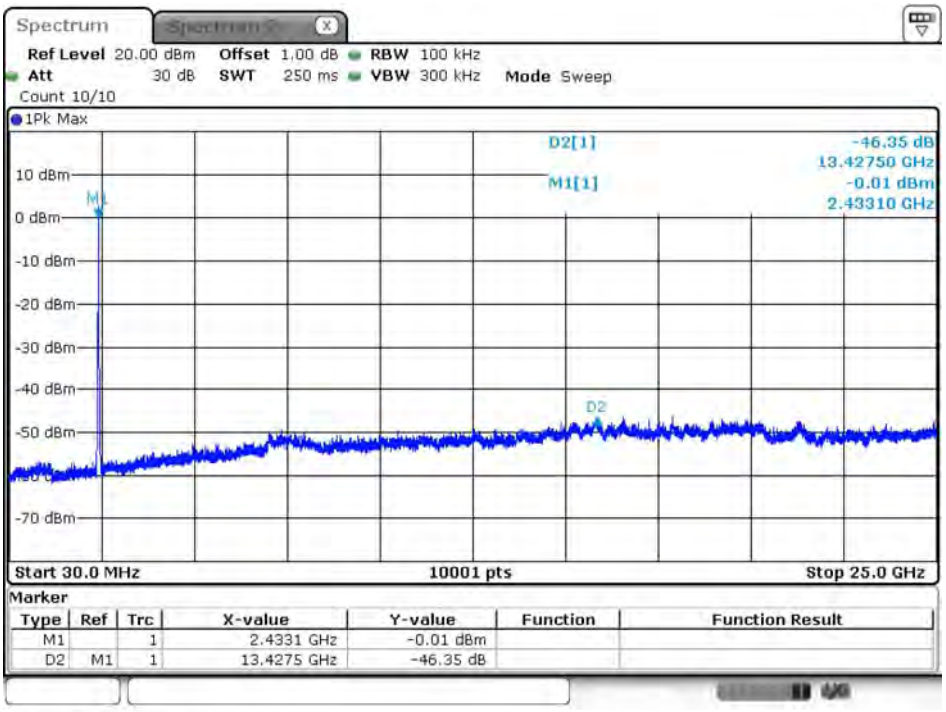
Date: 29.APR.2019 23:45:46

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



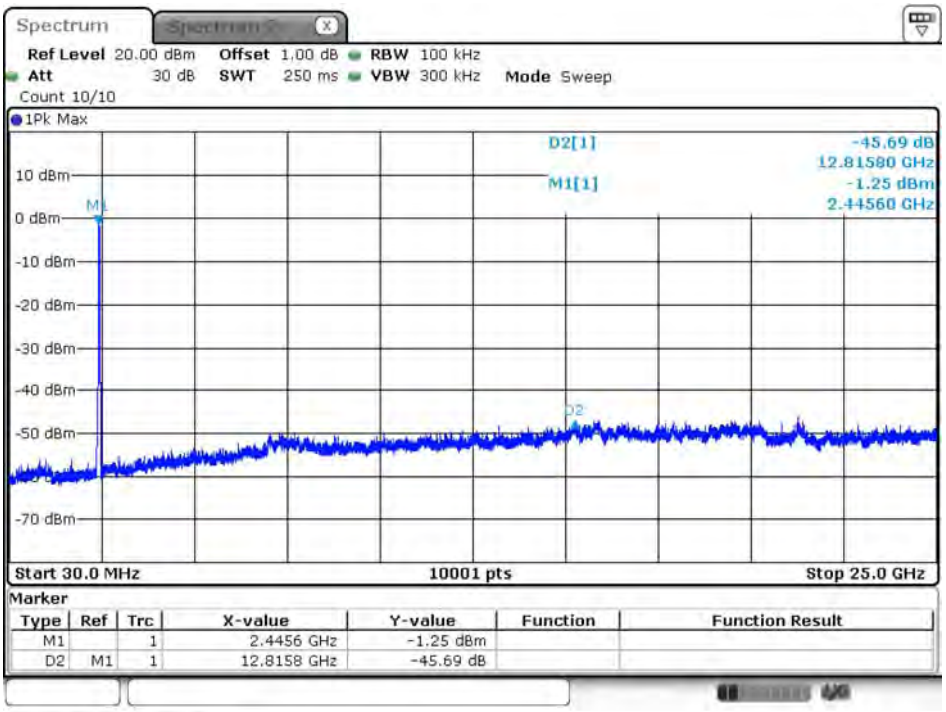
Date: 29.APR.2019 23:51:17

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



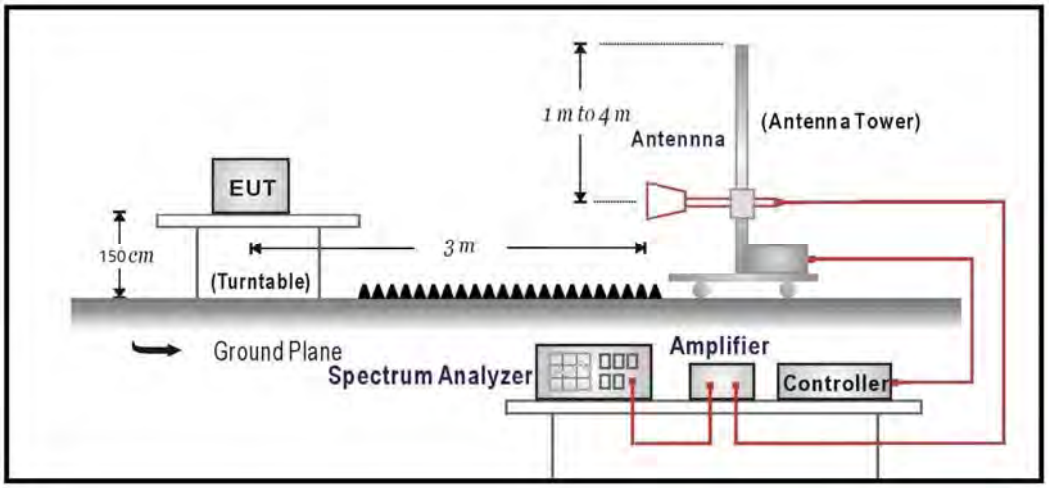
Date: 29.APR.2019 23:48:14

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



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

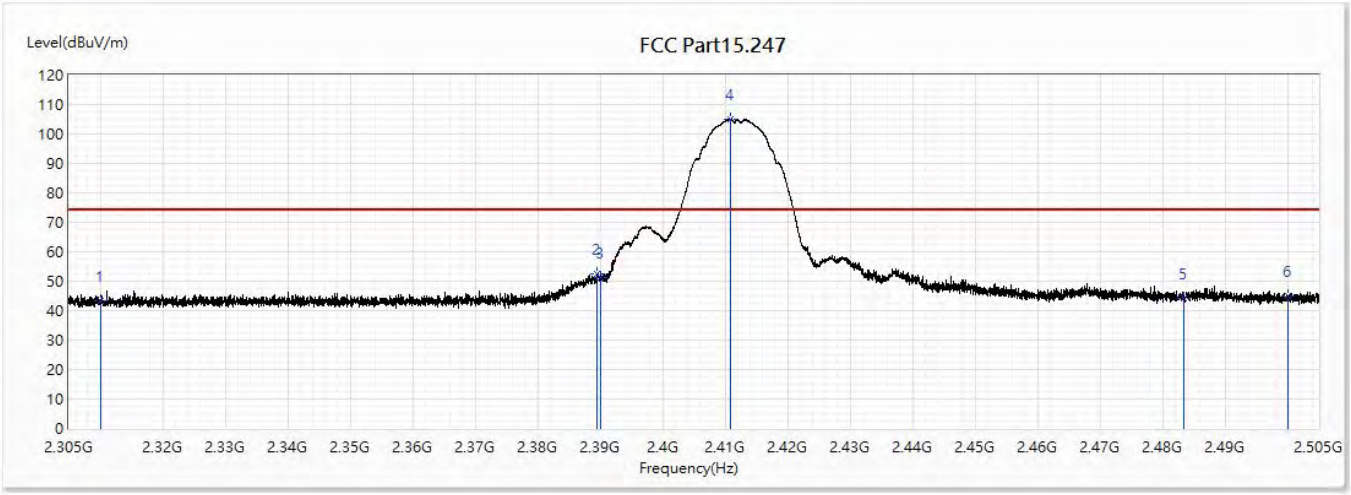
The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 D01 V05 for compliance to FCC 47CFR 15.247 requirements.
The EUT and its simulators are placed on a turn table which is 1.5 meter above ground. The turn table can rotate 360 degrees to determine the 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: 2017

6.5. Test Result

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2412MHz		

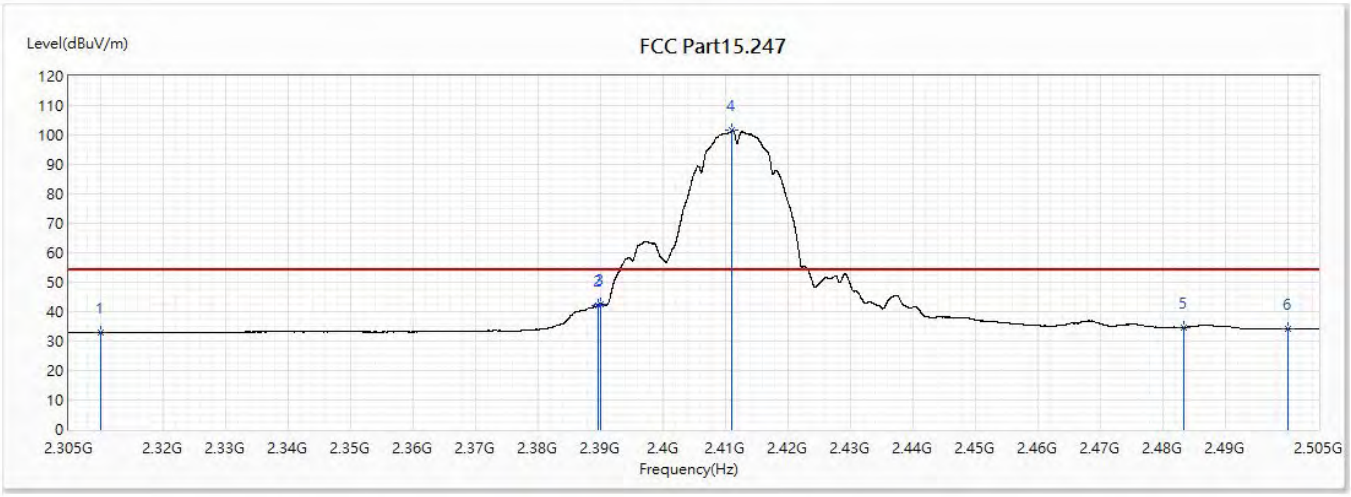


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	43.37	74.00	-30.63	28.66	14.71	PK
2	2389.6	52.59	74.00	-21.41	37.35	15.24	PK
3	2390	51.35	74.00	-22.65	36.11	15.24	PK
! 4	2410.85	105.12	74.00	31.12	89.74	15.38	PK
5	2483.5	44.18	74.00	-29.82	28.33	15.85	PK
6	2500	45.03	74.00	-28.97	29.09	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/18
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2412MHz		

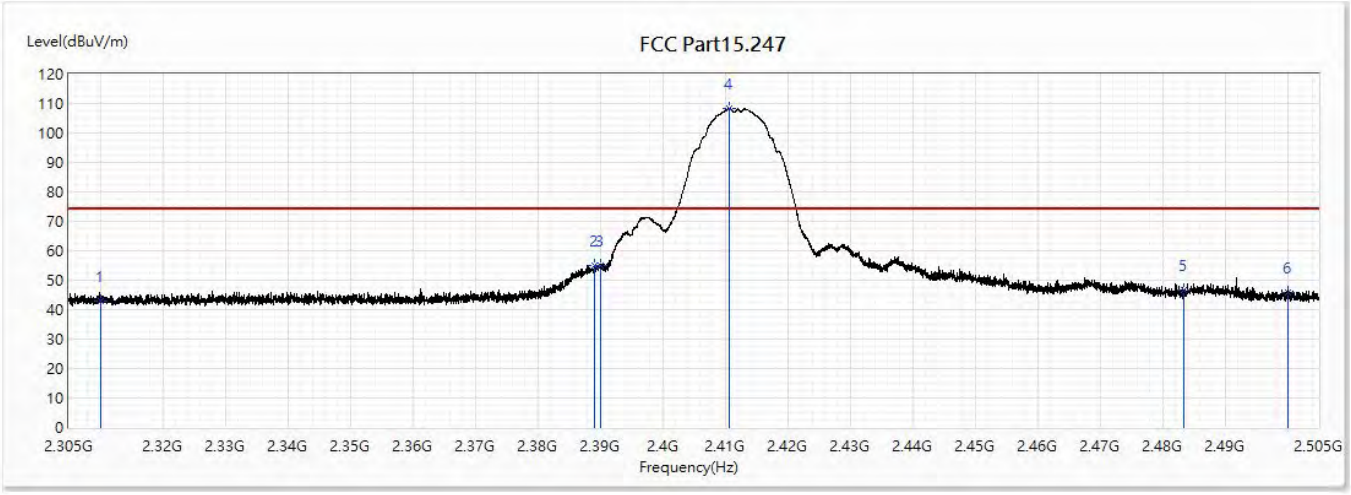


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.96	54.00	-21.04	18.25	14.71	AV
2	2389.7	42.15	54.00	-11.85	26.91	15.24	AV
3	2390	42.48	54.00	-11.52	27.24	15.24	AV
! 4	2411.15	101.62	54.00	47.62	86.24	15.38	AV
5	2483.5	34.65	54.00	-19.35	18.80	15.85	AV
6	2500	34.16	54.00	-19.84	18.22	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/18
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2412MHz		

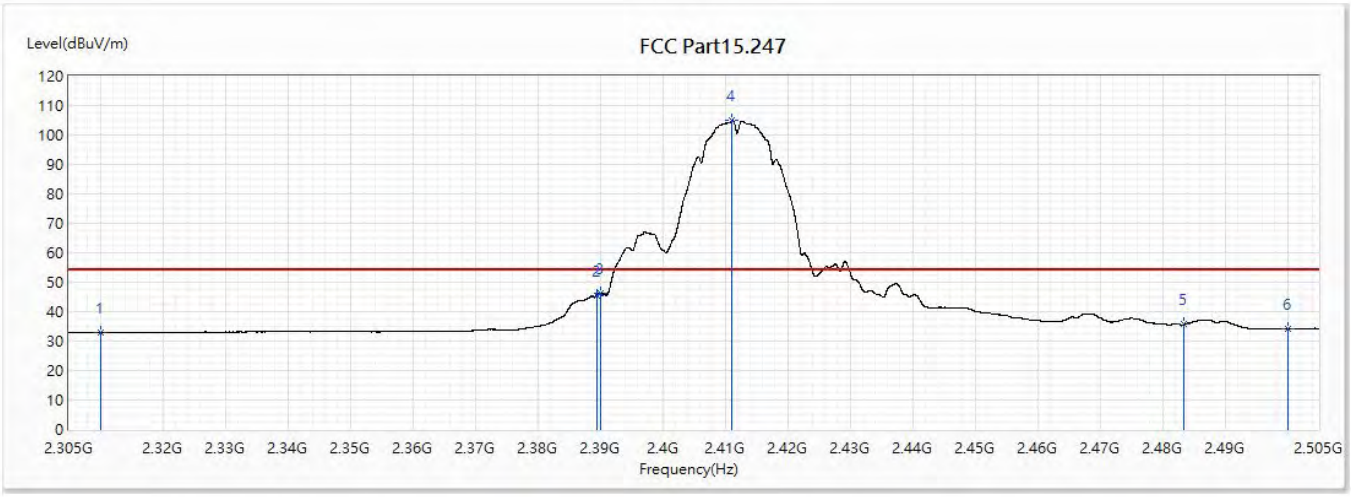


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	42.99	74.00	-31.01	28.28	14.71	PK
2	2389.175	54.95	74.00	-19.05	39.72	15.23	PK
3	2390	54.80	74.00	-19.20	39.56	15.24	PK
! 4	2410.75	108.31	74.00	34.31	92.93	15.38	PK
5	2483.5	46.53	74.00	-27.47	30.68	15.85	PK
6	2500	45.82	74.00	-28.18	29.88	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2412MHz		

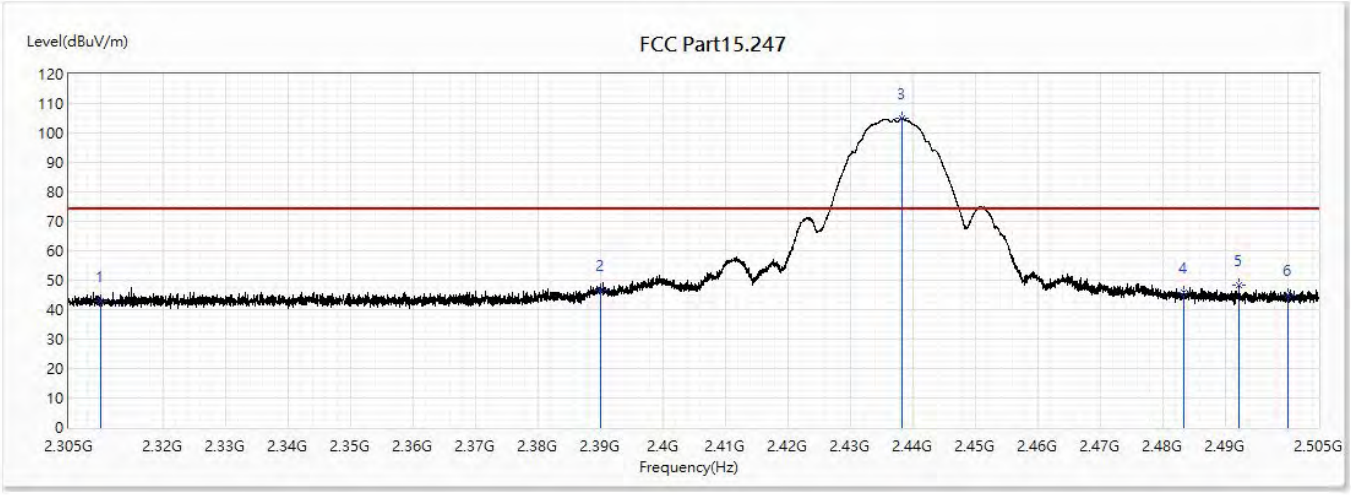


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.98	54.00	-21.02	18.27	14.71	AV
2	2389.45	45.54	54.00	-8.46	30.31	15.23	AV
3	2390	46.32	54.00	-7.68	31.08	15.24	AV
! 4	2411.175	105.04	54.00	51.04	89.66	15.38	AV
5	2483.5	35.74	54.00	-18.26	19.89	15.85	AV
6	2500	34.22	54.00	-19.78	18.28	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2437MHz		

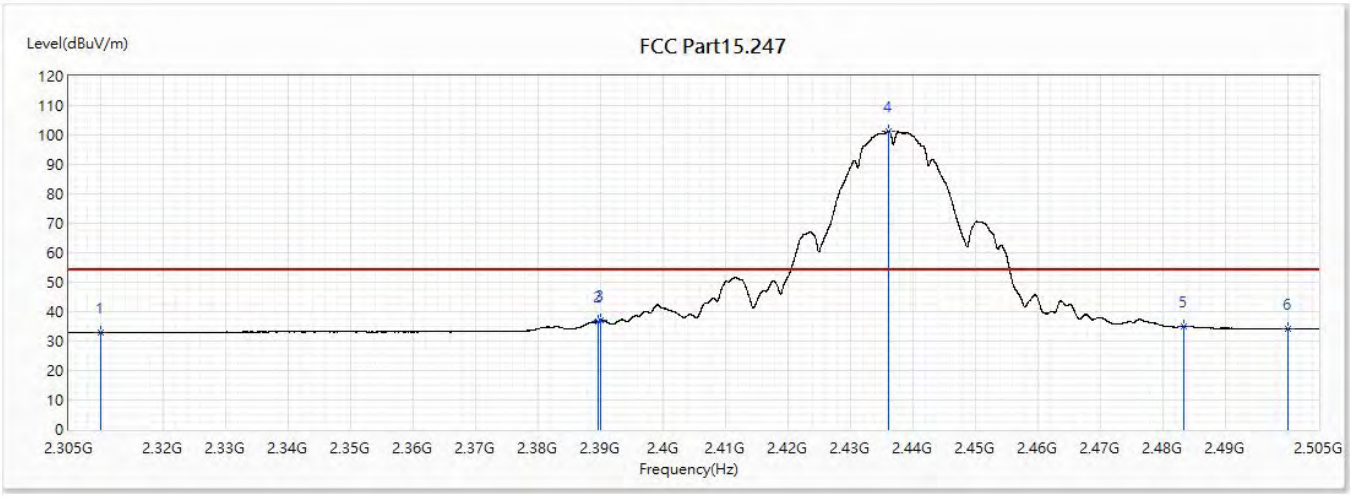


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	42.85	74.00	-31.15	28.14	14.71	PK
2	2390	46.82	74.00	-27.18	31.58	15.24	PK
! 3	2438.35	104.81	74.00	30.81	89.24	15.57	PK
4	2483.5	46.00	74.00	-28.00	30.15	15.85	PK
5	2492.225	48.20	74.00	-25.80	32.31	15.89	PK
6	2500	45.14	74.00	-28.86	29.20	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2437MHz		

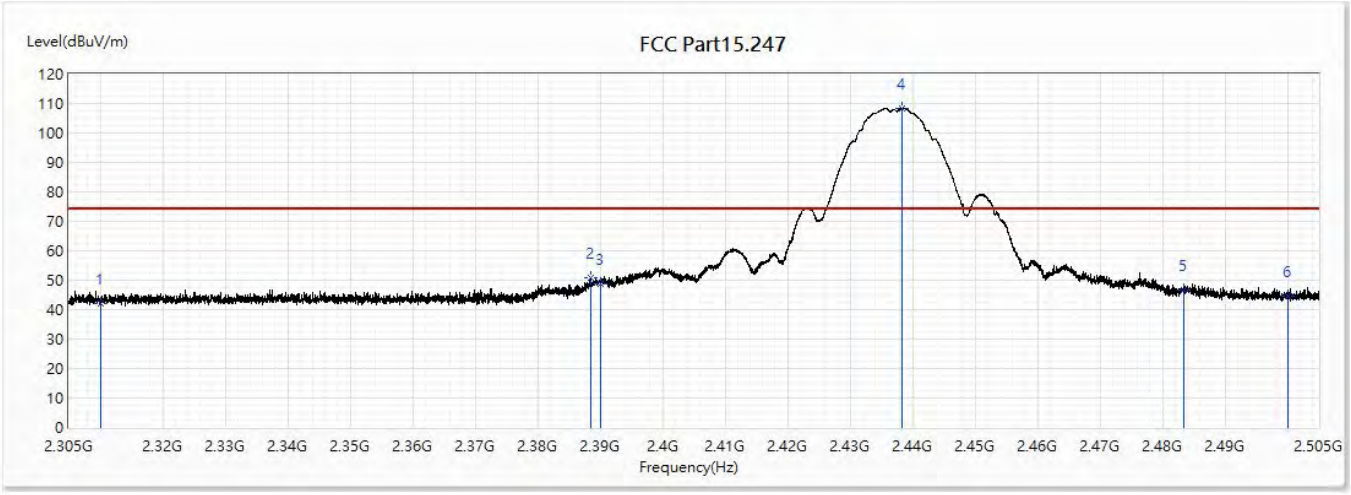


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.91	54.00	-21.09	18.20	14.71	AV
2	2389.675	36.74	54.00	-17.26	21.50	15.24	AV
3	2390	37.02	54.00	-16.98	21.78	15.24	AV
! 4	2436.175	101.39	54.00	47.39	85.84	15.55	AV
5	2483.5	35.13	54.00	-18.87	19.28	15.85	AV
6	2500	34.20	54.00	-19.80	18.26	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2437MHz		

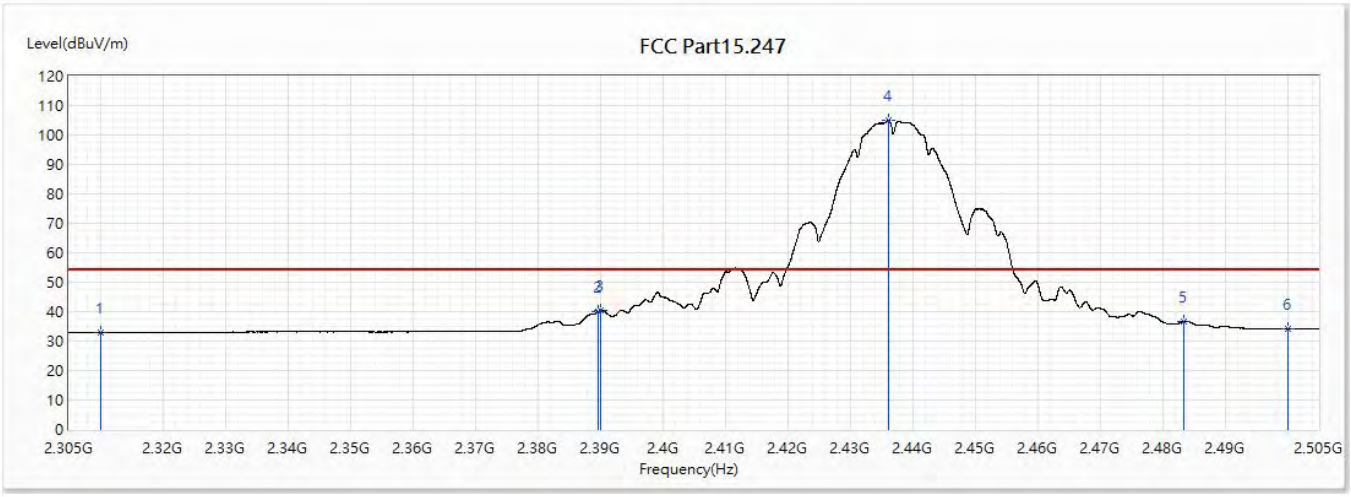


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	42.20	74.00	-31.80	27.49	14.71	PK
2	2388.525	50.75	74.00	-23.25	35.52	15.23	PK
3	2390	48.73	74.00	-25.27	33.49	15.24	PK
! 4	2438.325	108.42	74.00	34.42	92.85	15.57	PK
5	2483.5	46.76	74.00	-27.24	30.91	15.85	PK
6	2500	44.71	74.00	-29.29	28.77	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2437MHz		

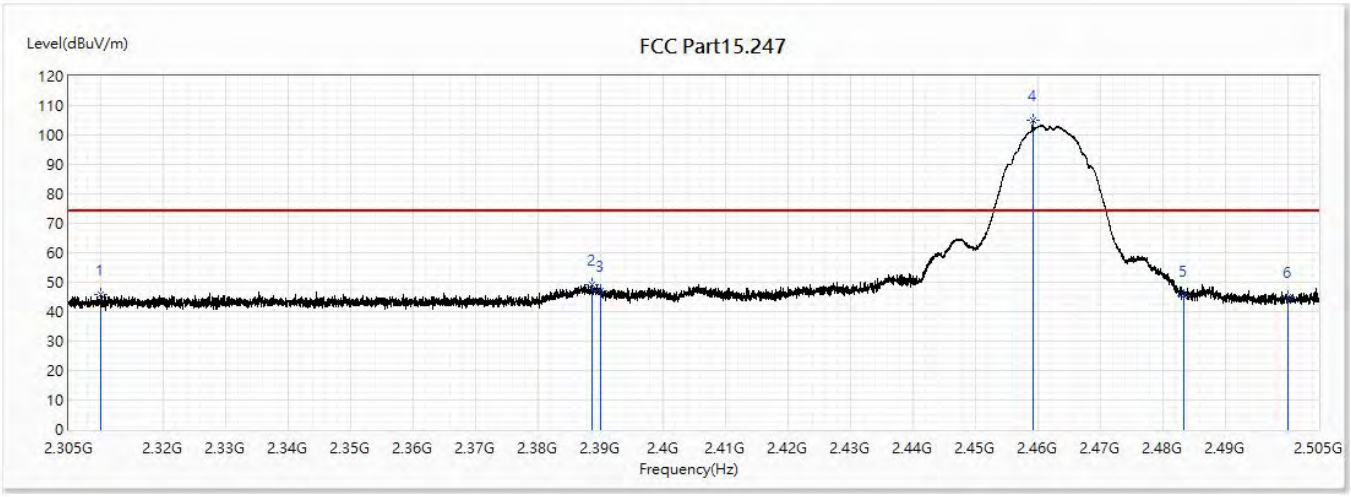


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.98	54.00	-21.02	18.27	14.71	AV
2	2389.75	40.08	54.00	-13.92	24.84	15.24	AV
3	2390	40.30	54.00	-13.70	25.06	15.24	AV
! 4	2436.225	104.96	54.00	50.96	89.41	15.55	AV
5	2483.5	36.64	54.00	-17.36	20.79	15.85	AV
6	2500	34.25	54.00	-19.75	18.31	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2462MHz		

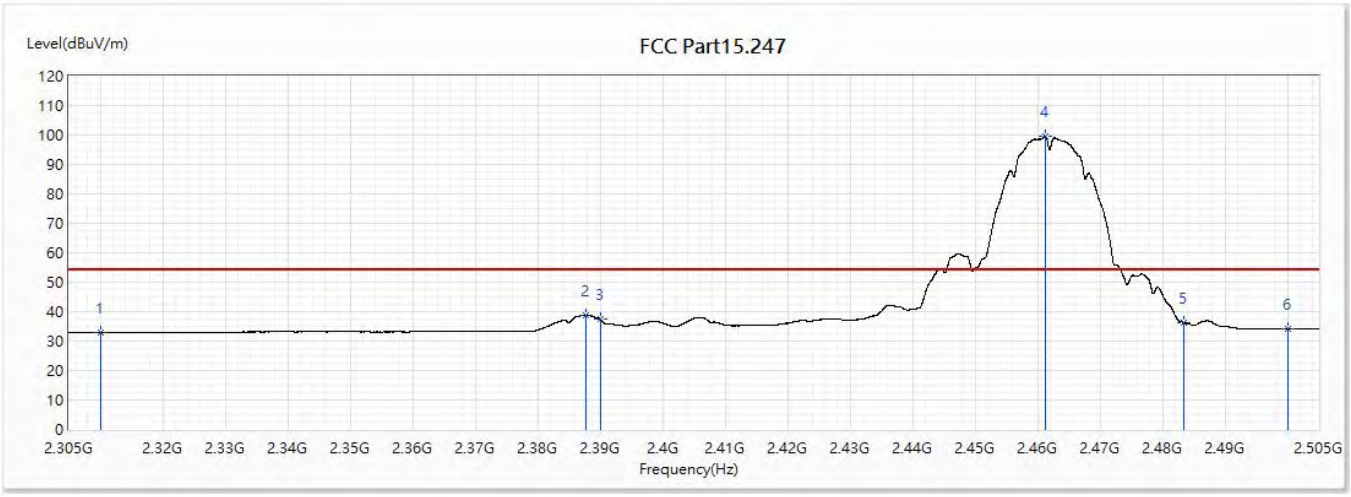


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	45.68	74.00	-28.32	30.97	14.71	PK
2	2388.725	49.15	74.00	-24.85	33.92	15.23	PK
3	2390	46.97	74.00	-27.03	31.73	15.24	PK
! 4	2459.375	104.80	74.00	30.80	89.10	15.70	PK
5	2483.5	45.46	74.00	-28.54	29.61	15.85	PK
6	2500	45.05	74.00	-28.95	29.11	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2462MHz		

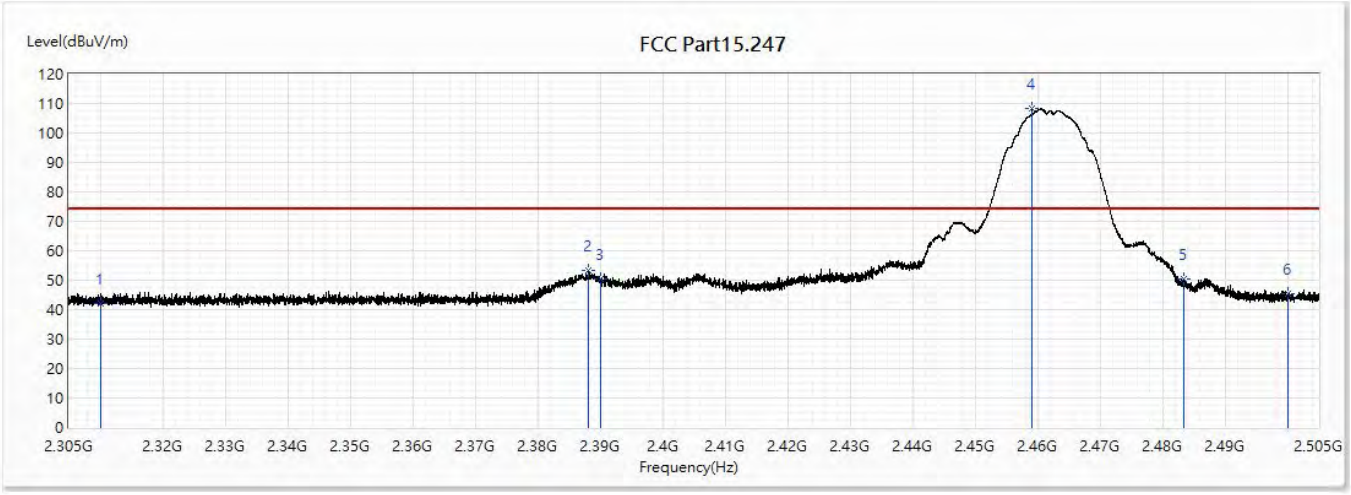


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.93	54.00	-21.07	18.22	14.71	AV
2	2387.825	38.85	54.00	-15.15	23.62	15.23	AV
3	2390	37.34	54.00	-16.66	22.10	15.24	AV
! 4	2461.2	99.47	54.00	45.47	83.76	15.71	AV
5	2483.5	36.28	54.00	-17.72	20.43	15.85	AV
6	2500	34.25	54.00	-19.75	18.31	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2462MHz		

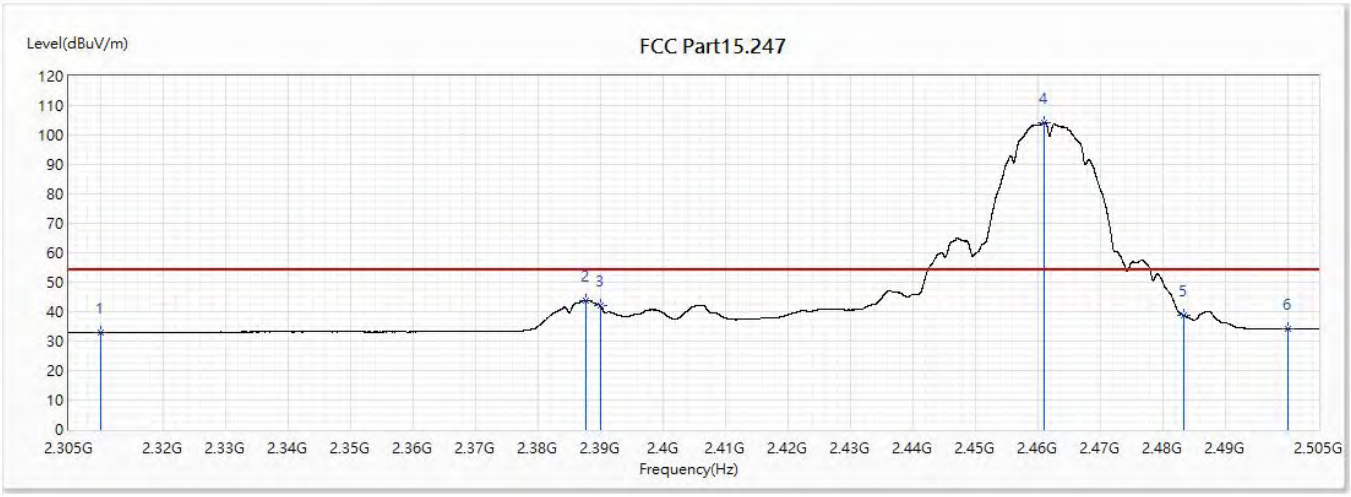


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	41.92	74.00	-32.08	27.21	14.71	PK
2	2388.15	53.16	74.00	-20.84	37.93	15.23	PK
3	2390	50.42	74.00	-23.58	35.18	15.24	PK
! 4	2459.125	108.49	74.00	34.49	92.79	15.70	PK
5	2483.5	50.51	74.00	-23.49	34.66	15.85	PK
6	2500	45.34	74.00	-28.66	29.40	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11b_2462MHz		

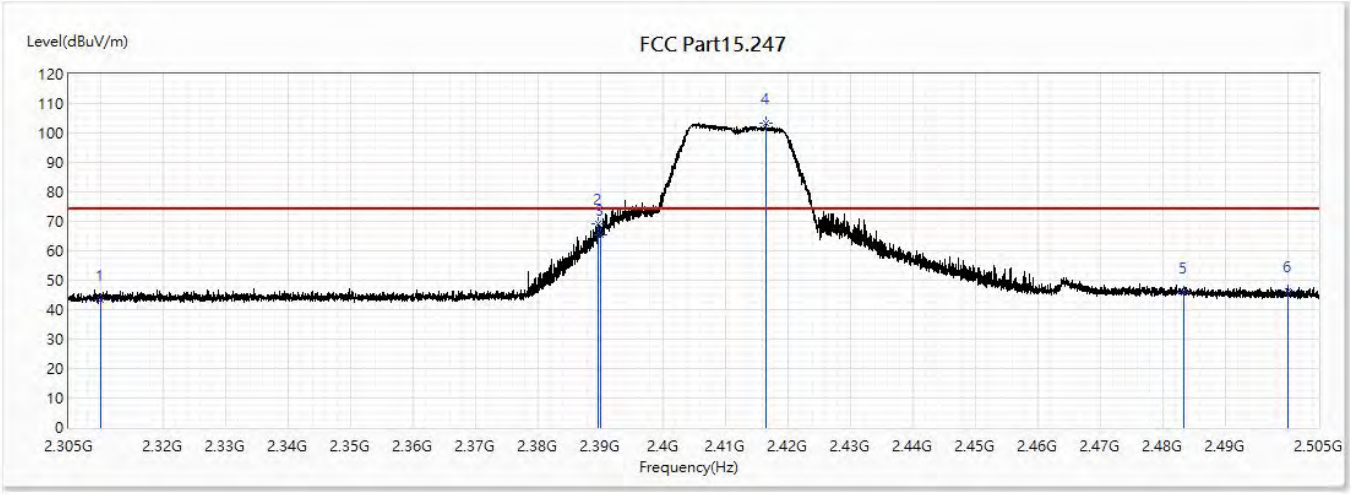


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.93	54.00	-21.07	18.22	14.71	AV
2	2387.825	43.83	54.00	-10.17	28.60	15.23	AV
3	2390	41.99	54.00	-12.01	26.75	15.24	AV
! 4	2461.125	104.28	54.00	50.28	88.57	15.71	AV
5	2483.5	38.77	54.00	-15.23	22.92	15.85	AV
6	2500	34.15	54.00	-19.85	18.21	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2412MHz		

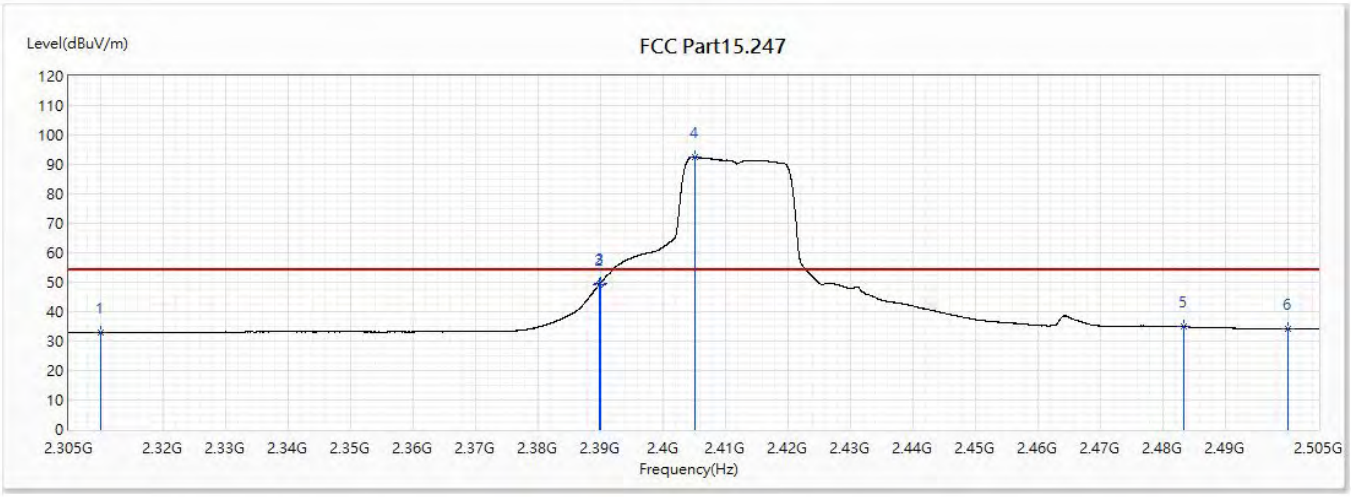


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	43.46	74.00	-30.54	28.75	14.71	PK
2	2389.75	69.24	74.00	-4.76	54.00	15.24	PK
3	2390	65.48	74.00	-8.52	50.24	15.24	PK
! 4	2416.575	103.52	74.00	29.52	88.10	15.42	PK
5	2483.5	46.01	74.00	-27.99	30.16	15.85	PK
6	2500	46.37	74.00	-27.63	30.43	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2412MHz		

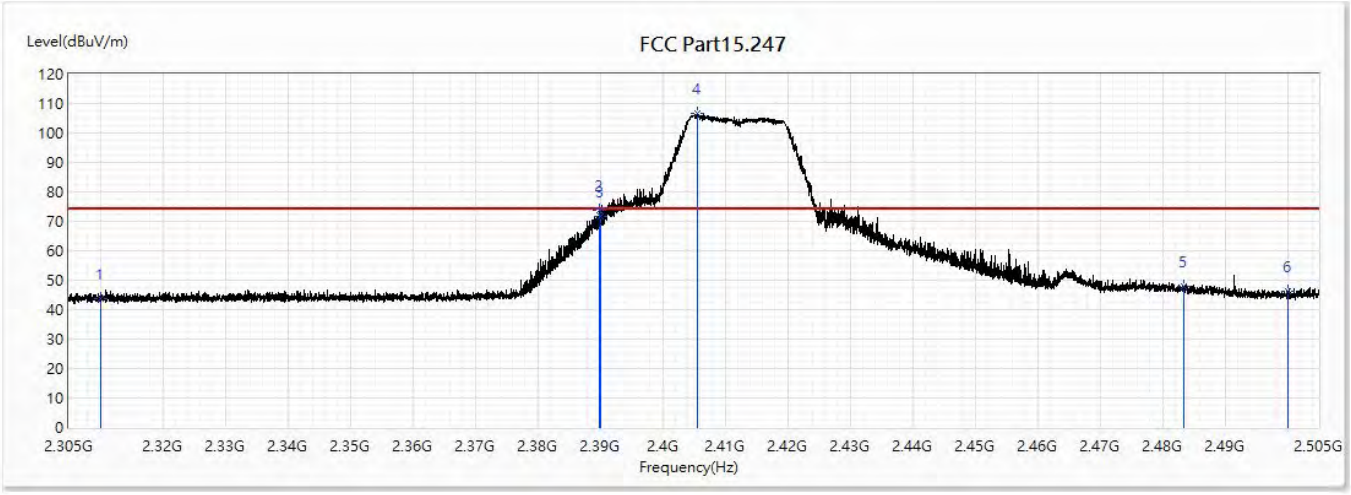


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.89	54.00	-21.11	18.18	14.71	AV
2	2389.85	49.16	54.00	-4.84	33.92	15.24	AV
3	2390	49.51	54.00	-4.49	34.27	15.24	AV
! 4	2405.125	92.50	54.00	38.50	77.16	15.34	AV
5	2483.5	34.86	54.00	-19.14	19.01	15.85	AV
6	2500	34.15	54.00	-19.85	18.21	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2412MHz		

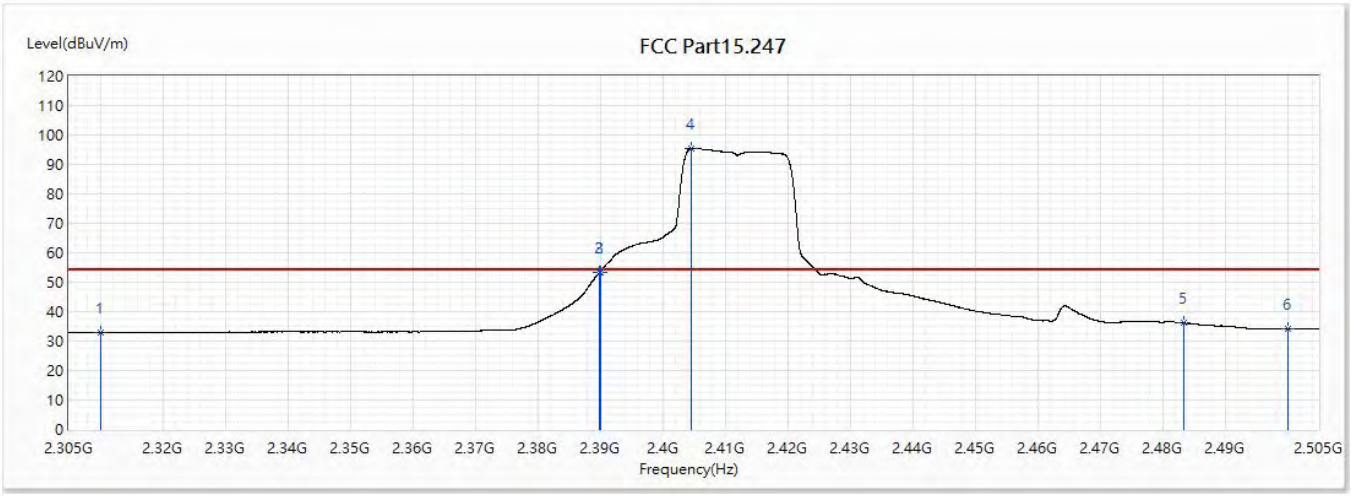


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	43.63	74.00	-30.37	28.92	14.71	PK
2	2389.825	73.55	74.00	-0.45	58.31	15.24	PK
3	2390	71.77	74.00	-2.23	56.53	15.24	PK
! 4	2405.55	106.77	74.00	32.77	91.43	15.34	PK
5	2483.5	47.95	74.00	-26.05	32.10	15.85	PK
6	2500	46.38	74.00	-27.62	30.44	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2412MHz		

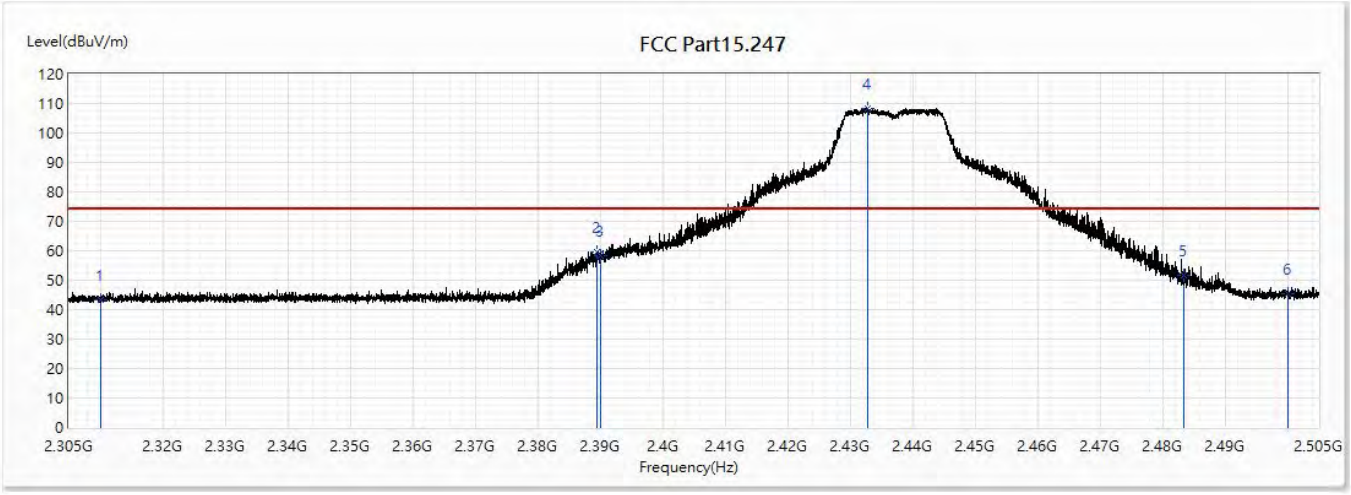


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.96	54.00	-21.04	18.25	14.71	AV
2	2389.9	53.31	54.00	-0.69	38.07	15.24	AV
3	2390	53.53	54.00	-0.47	38.29	15.24	AV
! 4	2404.575	95.62	54.00	41.62	80.28	15.34	AV
5	2483.5	36.08	54.00	-17.92	20.23	15.85	AV
6	2500	34.16	54.00	-19.84	18.22	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2437MHz		

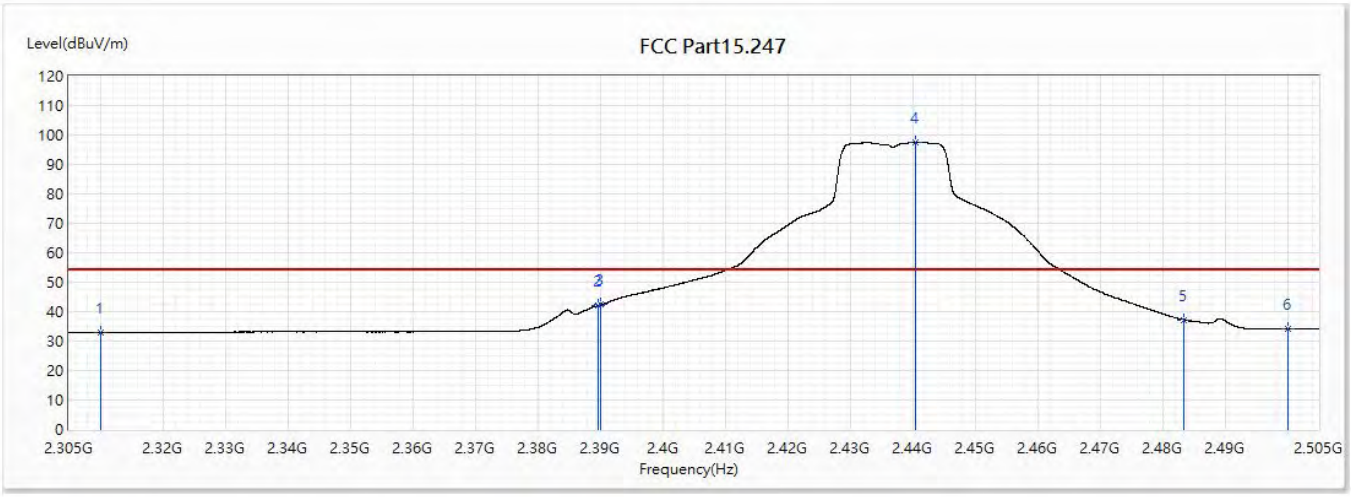


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	43.47	74.00	-30.53	28.76	14.71	PK
2	2389.525	59.48	74.00	-14.52	44.25	15.23	PK
3	2390	58.22	74.00	-15.78	42.98	15.24	PK
! 4	2432.875	108.34	74.00	34.34	92.80	15.54	PK
5	2483.5	51.61	74.00	-22.39	35.76	15.85	PK
6	2500	45.34	74.00	-28.66	29.40	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2437MHz		

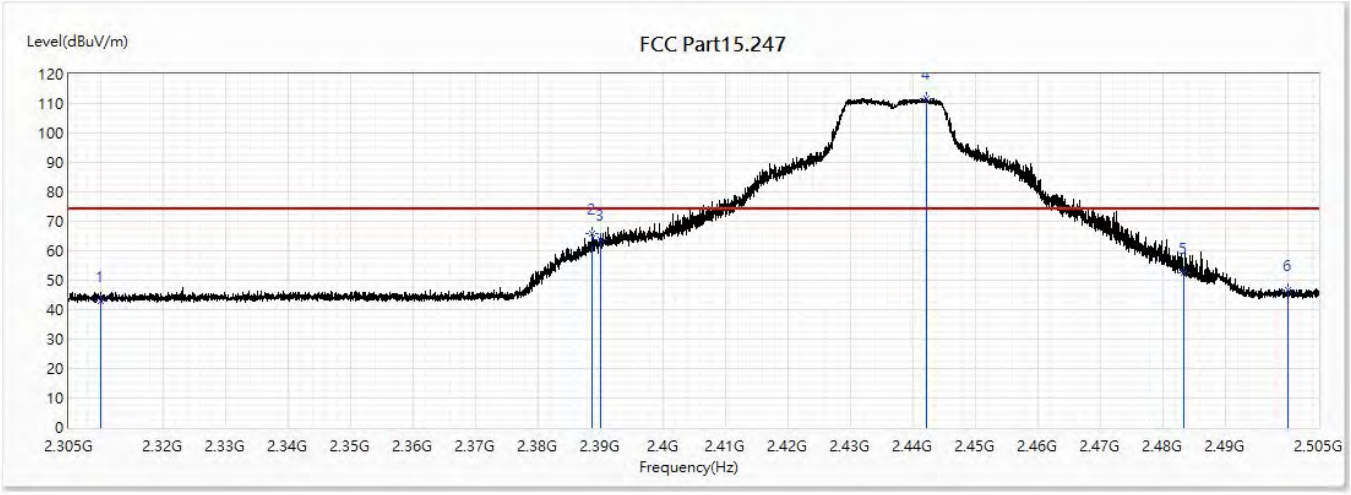


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.95	54.00	-21.05	18.24	14.71	AV
2	2389.725	42.14	54.00	-11.86	26.90	15.24	AV
3	2390	42.30	54.00	-11.70	27.06	15.24	AV
! 4	2440.5	97.54	54.00	43.54	81.96	15.58	AV
5	2483.5	37.23	54.00	-16.77	21.38	15.85	AV
6	2500	34.23	54.00	-19.77	18.29	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2437MHz		

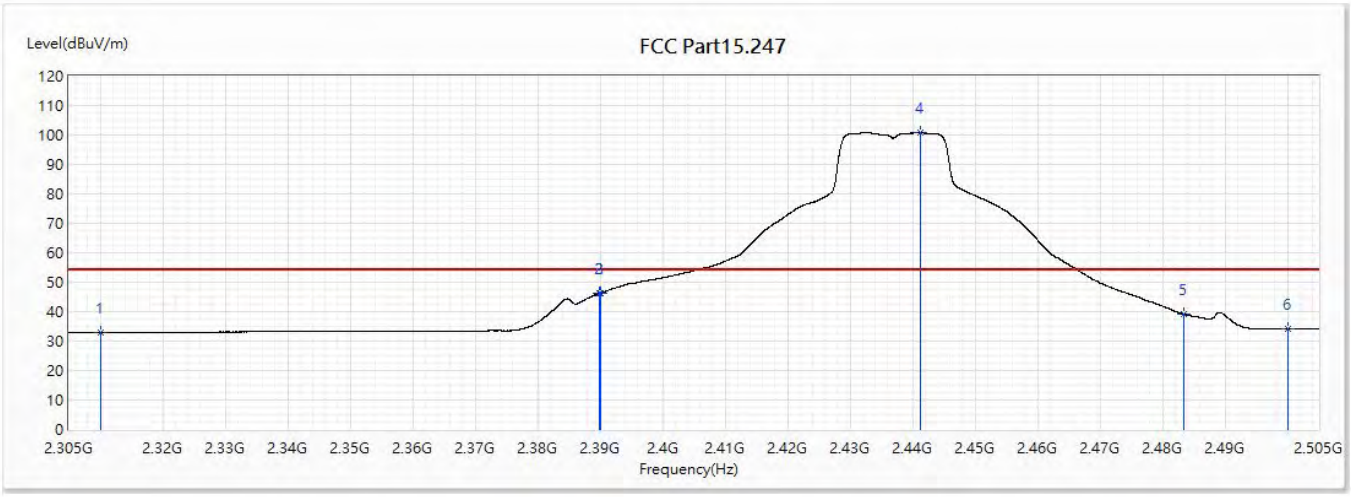


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	42.73	74.00	-31.27	28.02	14.71	PK
2	2388.675	65.82	74.00	-8.18	50.59	15.23	PK
3	2390	63.84	74.00	-10.16	48.60	15.24	PK
! 4	2442.225	111.72	74.00	37.72	96.12	15.60	PK
5	2483.5	52.42	74.00	-21.58	36.57	15.85	PK
6	2500	46.65	74.00	-27.35	30.71	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2437MHz		

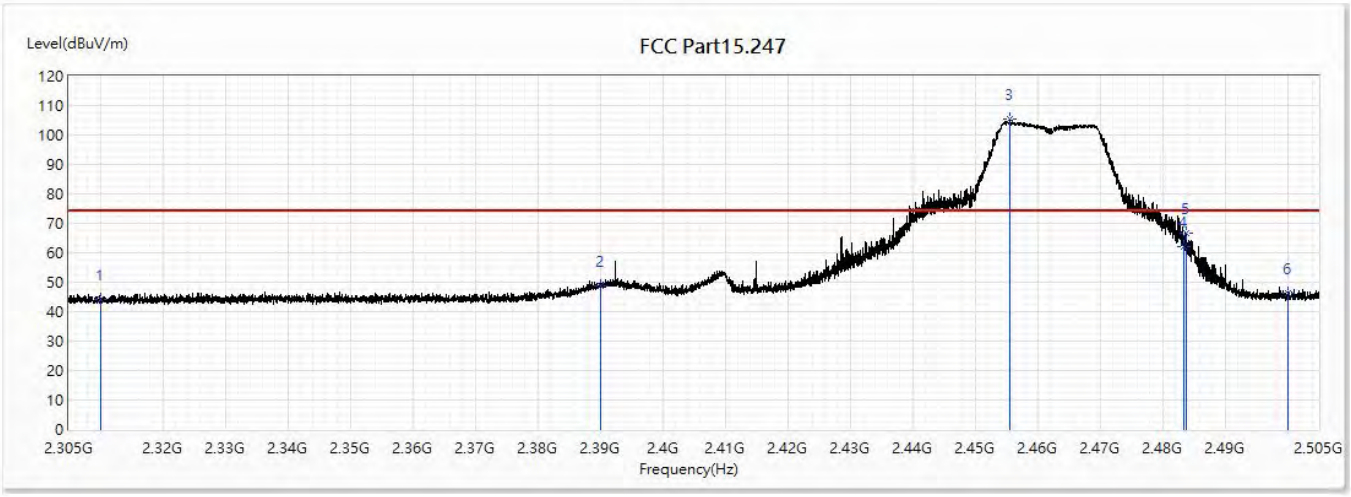


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	33.01	54.00	-20.99	18.30	14.71	AV
2	2389.975	46.27	54.00	-7.73	31.03	15.24	AV
3	2390	46.29	54.00	-7.71	31.05	15.24	AV
! 4	2441.35	100.76	54.00	46.76	85.17	15.59	AV
5	2483.5	39.11	54.00	-14.89	23.26	15.85	AV
6	2500	34.22	54.00	-19.78	18.28	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2462MHz		

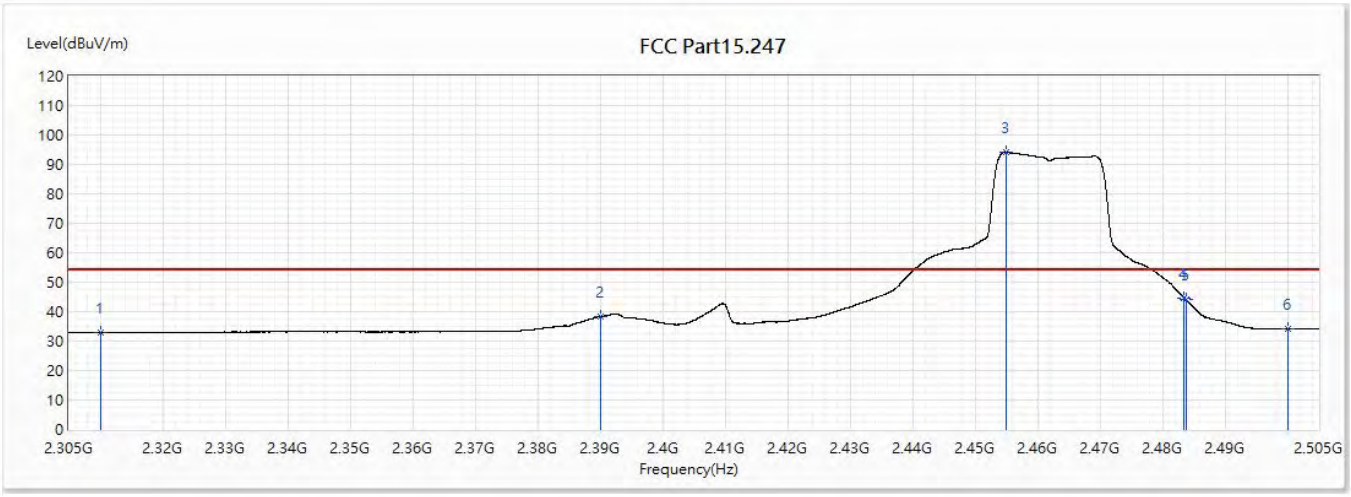


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.08	74.00	-29.92	29.37	14.71	PK
2	2390	48.74	74.00	-25.26	33.50	15.24	PK
! 3	2455.55	105.22	74.00	31.22	89.55	15.67	PK
4	2483.5	61.90	74.00	-12.10	46.05	15.85	PK
5	2483.875	66.62	74.00	-7.38	50.77	15.85	PK
6	2500	46.16	74.00	-27.84	30.22	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2462MHz		

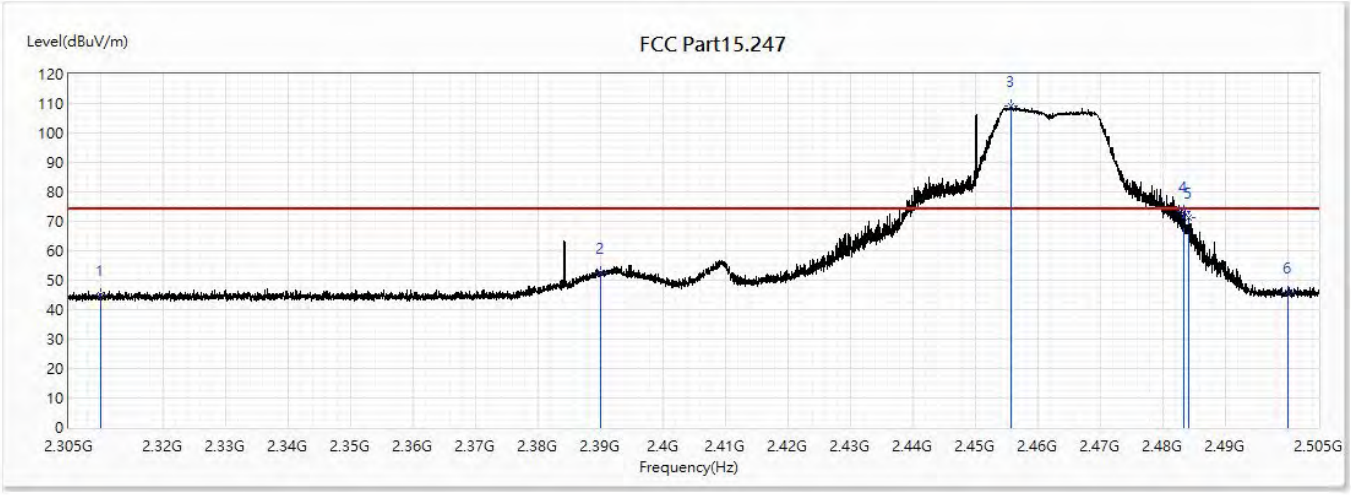


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.95	54.00	-21.05	18.24	14.71	AV
2	2390	38.29	54.00	-15.71	23.05	15.24	AV
! 3	2455.05	94.10	54.00	40.10	78.43	15.67	AV
4	2483.5	44.56	54.00	-9.44	28.71	15.85	AV
5	2483.75	43.99	54.00	-10.01	28.14	15.85	AV
6	2500	34.20	54.00	-19.80	18.26	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2462MHz		

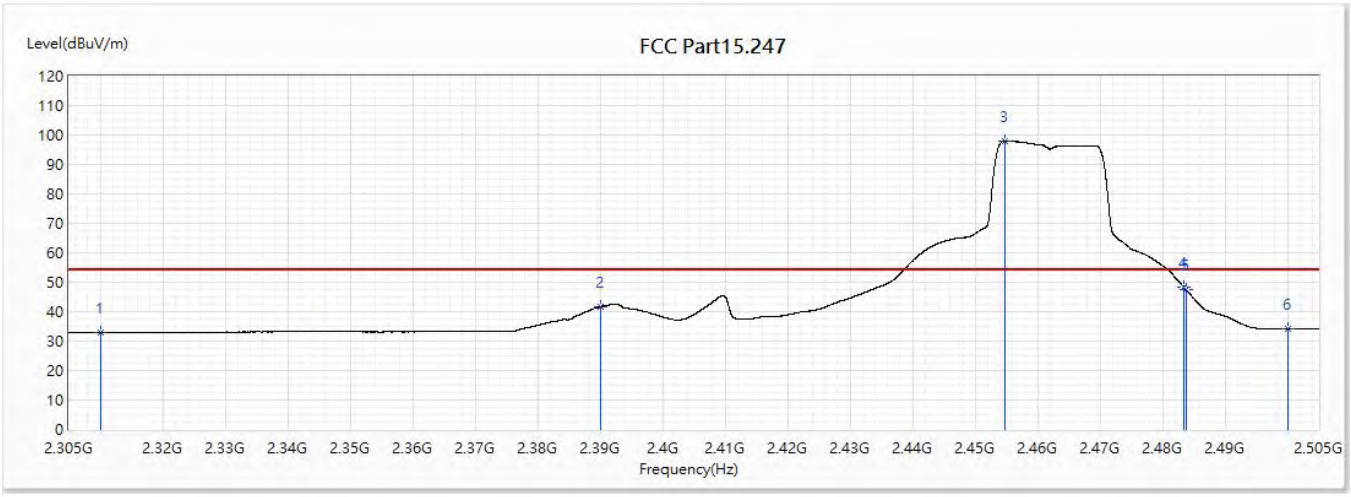


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.84	74.00	-29.16	30.13	14.71	PK
2	2390	52.65	74.00	-21.35	37.41	15.24	PK
! 3	2455.875	109.12	74.00	35.12	93.45	15.67	PK
4	2483.5	73.25	74.00	-0.75	57.40	15.85	PK
5	2484.3	71.34	74.00	-2.66	55.49	15.85	PK
6	2500	45.87	74.00	-28.13	29.93	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11g_2462MHz		

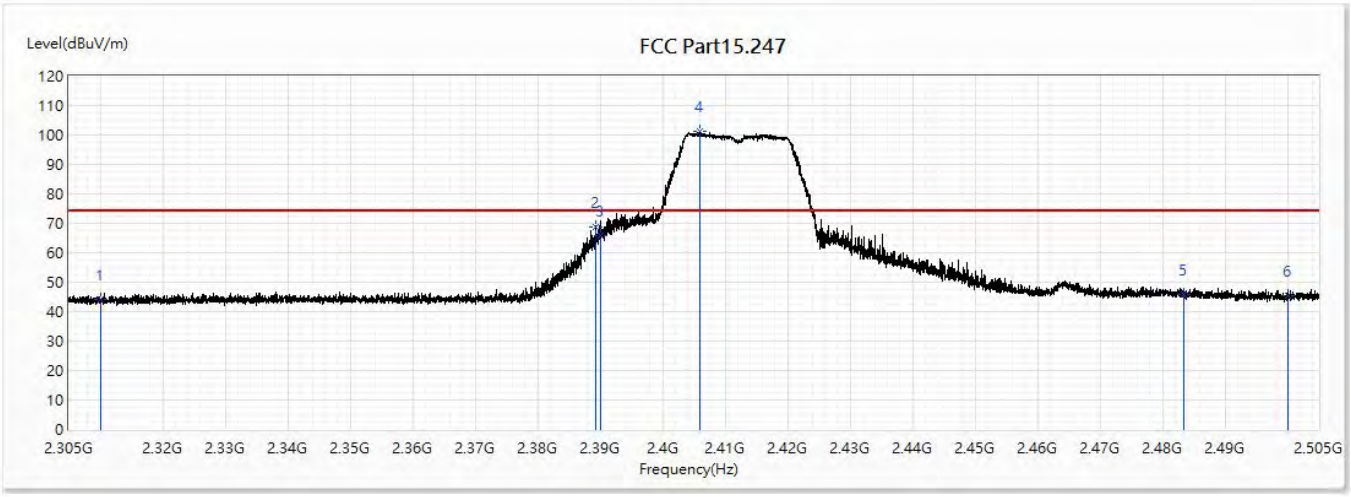


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.96	54.00	-21.04	18.25	14.71	AV
2	2390	41.62	54.00	-12.38	26.38	15.24	AV
! 3	2454.85	98.10	54.00	44.10	82.43	15.67	AV
4	2483.5	48.19	54.00	-5.81	32.34	15.85	AV
5	2483.75	47.54	54.00	-6.46	31.69	15.85	AV
6	2500	34.26	54.00	-19.74	18.32	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2412MHz		

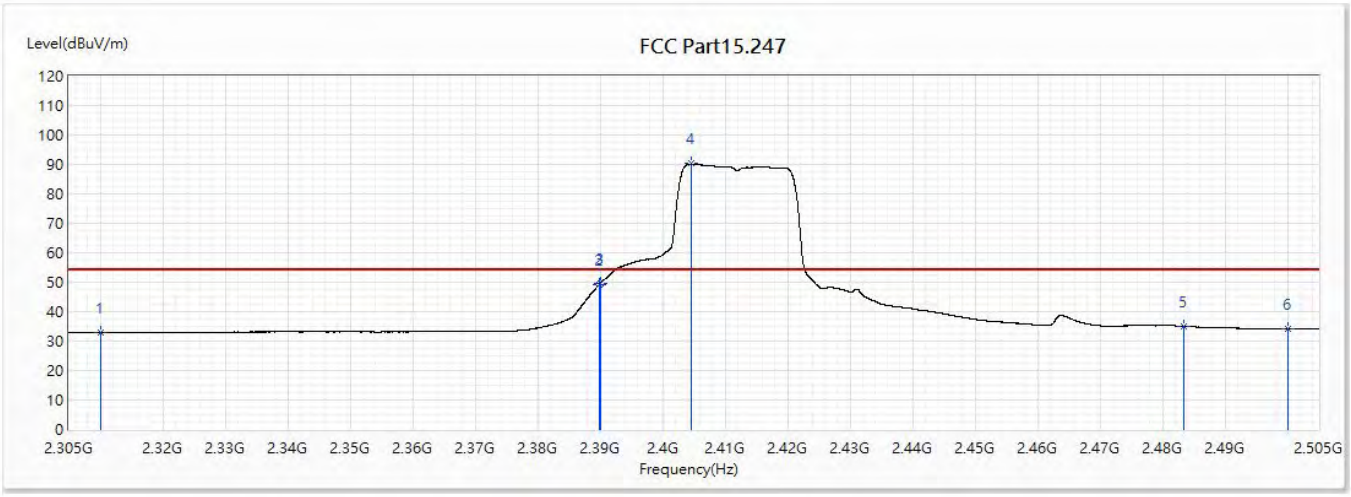


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.04	74.00	-29.96	29.33	14.71	PK
2	2389.35	68.94	74.00	-5.06	53.71	15.23	PK
3	2390	65.66	74.00	-8.34	50.42	15.24	PK
! 4	2405.9	101.45	74.00	27.45	86.11	15.34	PK
5	2483.5	46.01	74.00	-27.99	30.16	15.85	PK
6	2500	45.35	74.00	-28.65	29.41	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2412MHz		

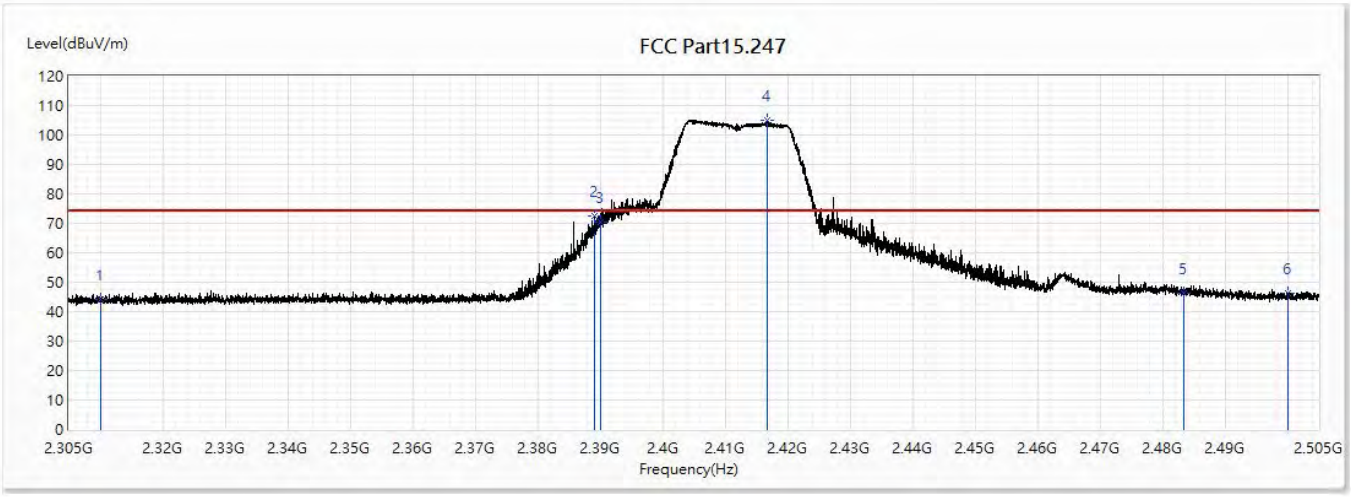


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.93	54.00	-21.07	18.22	14.71	AV
2	2389.85	49.12	54.00	-4.88	33.88	15.24	AV
3	2390	49.45	54.00	-4.55	34.21	15.24	AV
! 4	2404.525	90.21	54.00	36.21	74.87	15.34	AV
5	2483.5	34.94	54.00	-19.06	19.09	15.85	AV
6	2500	34.17	54.00	-19.83	18.23	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2412MHz		

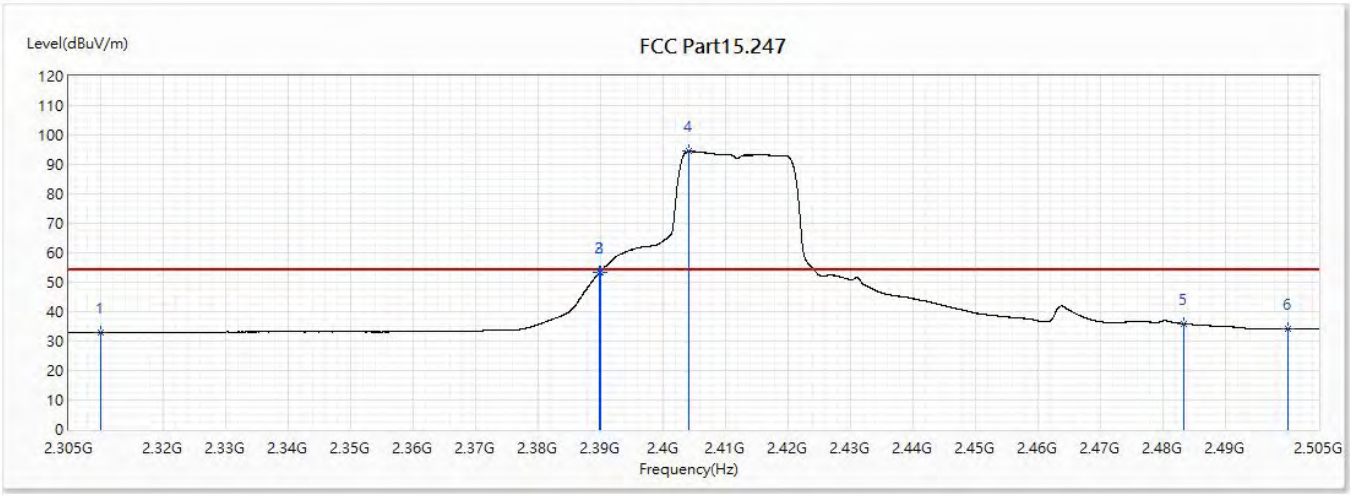


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.24	74.00	-29.76	29.53	14.71	PK
2	2389.075	72.60	74.00	-1.40	57.37	15.23	PK
3	2390	70.55	74.00	-3.45	55.31	15.24	PK
! 4	2416.85	105.04	74.00	31.04	89.61	15.43	PK
5	2483.5	46.14	74.00	-27.86	30.29	15.85	PK
6	2500	46.25	74.00	-27.75	30.31	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2412MHz		

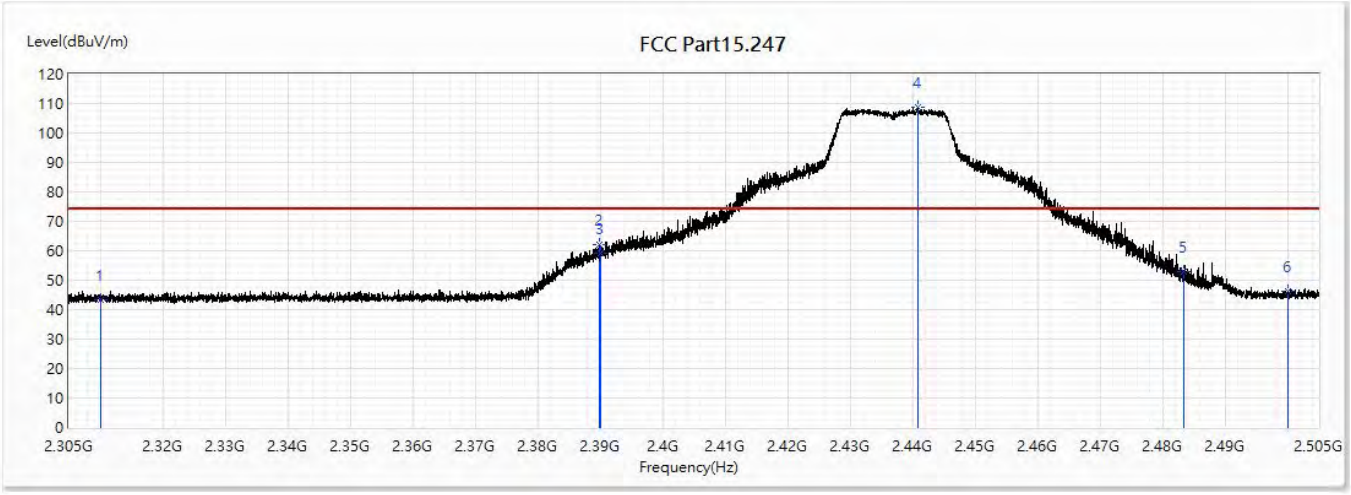


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.94	54.00	-21.06	18.23	14.71	AV
2	2389.9	53.23	54.00	-0.77	37.99	15.24	AV
3	2390	53.38	54.00	-0.62	38.14	15.24	AV
! 4	2404.25	94.51	54.00	40.51	79.17	15.34	AV
5	2483.5	35.87	54.00	-18.13	20.02	15.85	AV
6	2500	34.22	54.00	-19.78	18.28	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2437MHz		

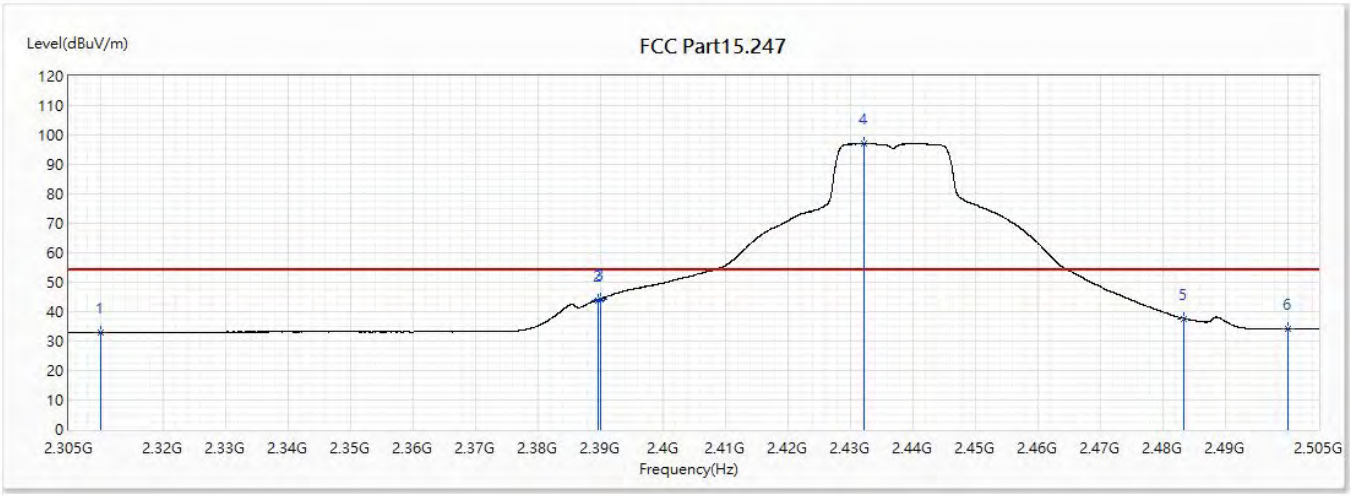


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	43.50	74.00	-30.50	28.79	14.71	PK
2	2389.85	61.96	74.00	-12.04	46.72	15.24	PK
3	2390	59.13	74.00	-14.87	43.89	15.24	PK
! 4	2440.925	108.58	74.00	34.58	92.99	15.59	PK
5	2483.5	52.80	74.00	-21.20	36.95	15.85	PK
6	2500	46.26	74.00	-27.74	30.32	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2437MHz		

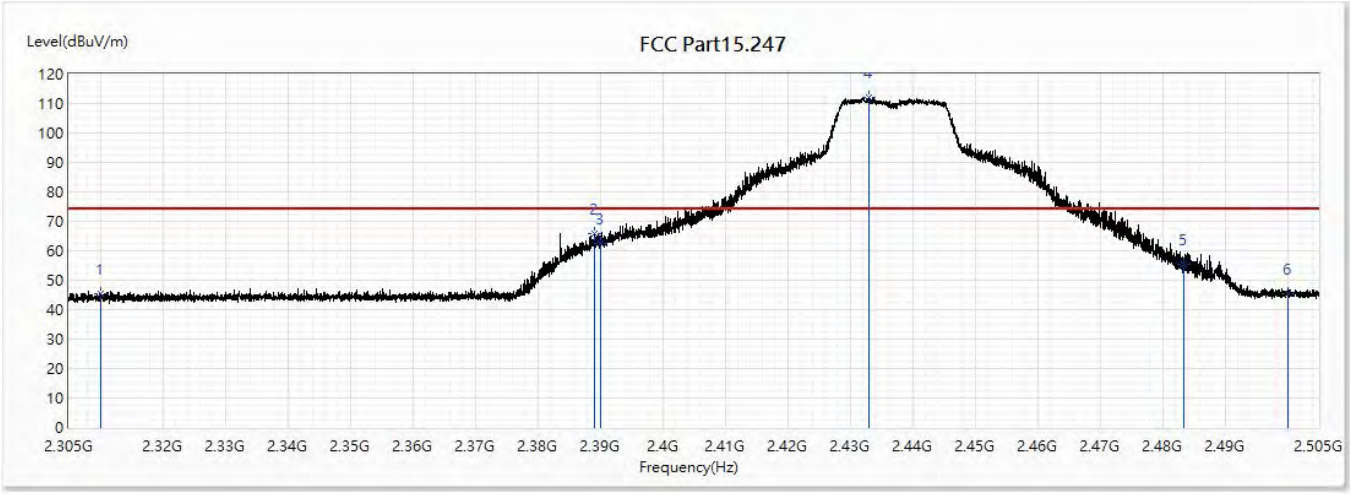


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.94	54.00	-21.06	18.23	14.71	AV
2	2389.675	43.94	54.00	-10.06	28.70	15.24	AV
3	2390	44.33	54.00	-9.67	29.09	15.24	AV
! 4	2432.35	97.28	54.00	43.28	81.75	15.53	AV
5	2483.5	37.64	54.00	-16.36	21.79	15.85	AV
6	2500	34.16	54.00	-19.84	18.22	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2437MHz		

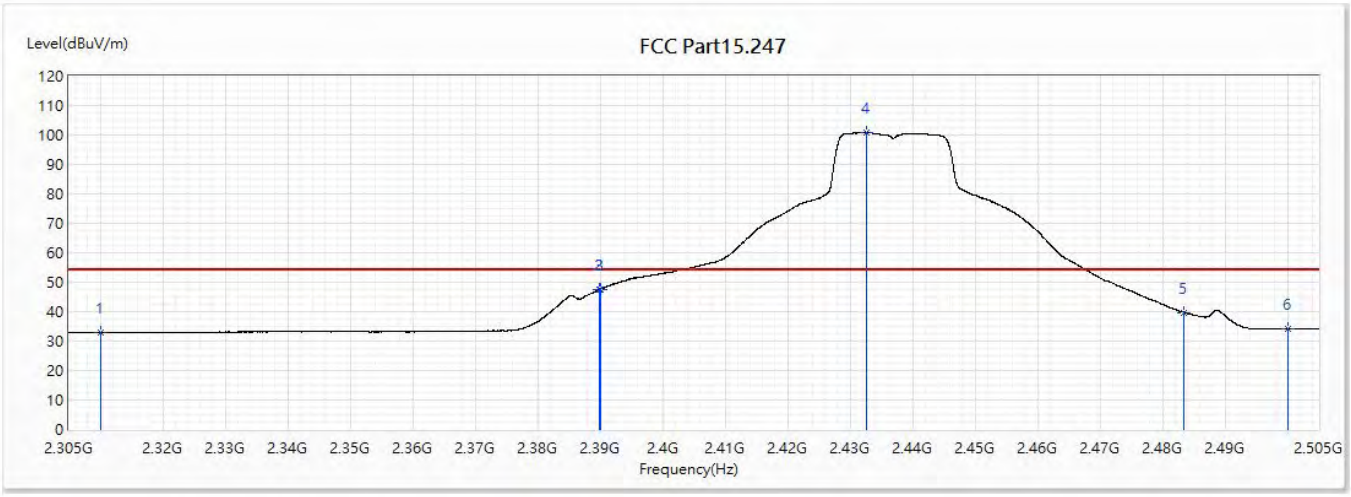


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	45.45	74.00	-28.55	30.74	14.71	PK
2	2389.175	65.84	74.00	-8.16	50.61	15.23	PK
3	2390	62.31	74.00	-11.69	47.07	15.24	PK
! 4	2433.025	112.17	74.00	38.17	96.63	15.54	PK
5	2483.5	55.22	74.00	-18.78	39.37	15.85	PK
6	2500	45.55	74.00	-28.45	29.61	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2437MHz		

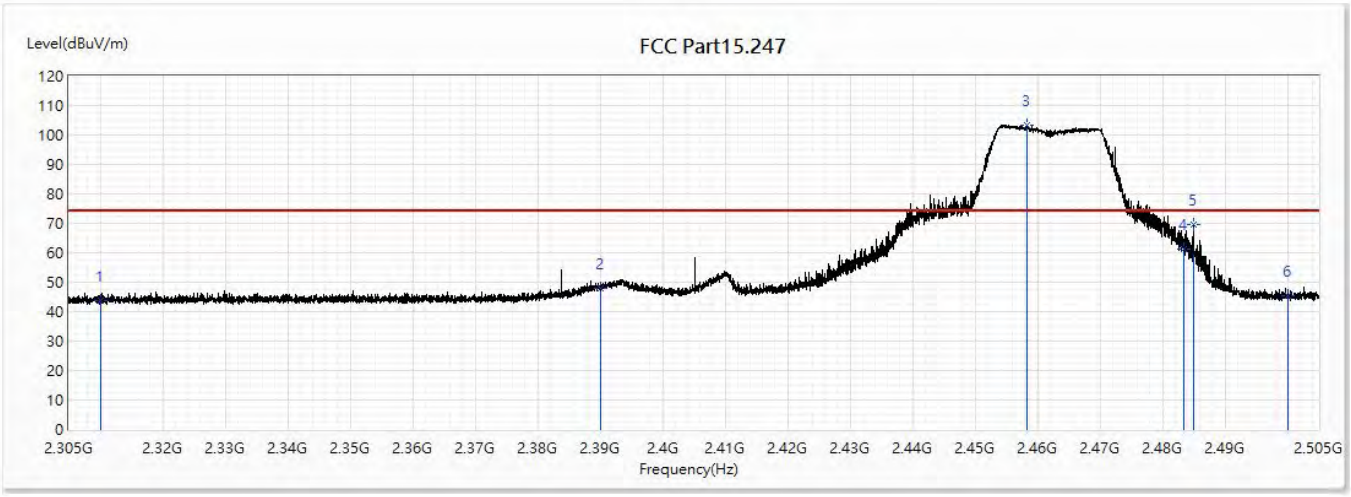


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.99	54.00	-21.01	18.28	14.71	AV
2	2389.85	47.48	54.00	-6.52	32.24	15.24	AV
3	2390	47.56	54.00	-6.44	32.32	15.24	AV
! 4	2432.675	100.89	54.00	46.89	85.35	15.54	AV
5	2483.5	39.67	54.00	-14.33	23.82	15.85	AV
6	2500	34.17	54.00	-19.83	18.23	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2462MHz		

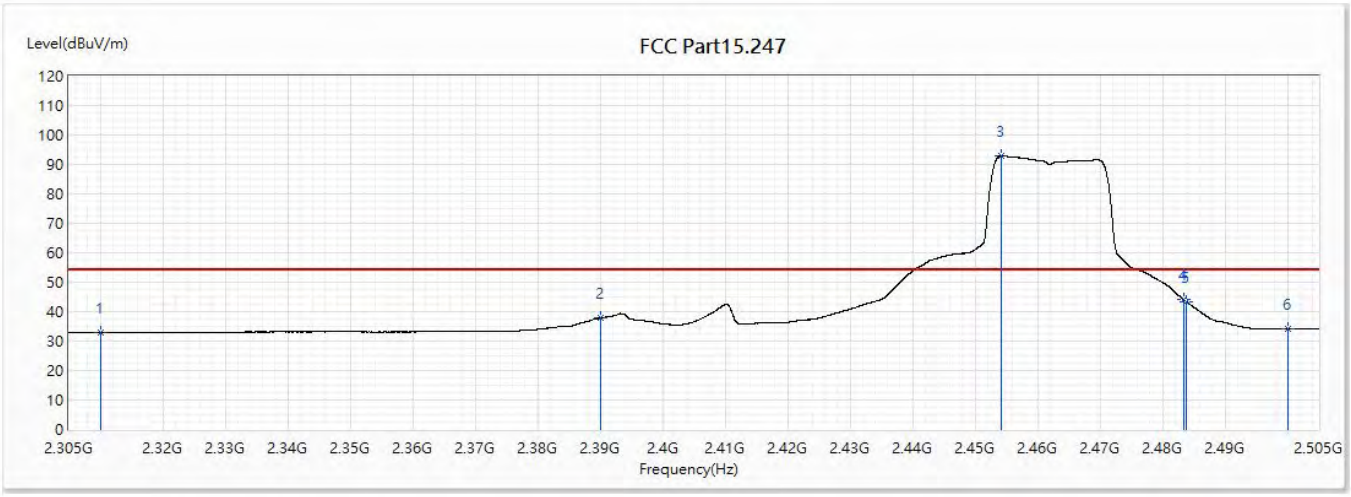


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	43.94	74.00	-30.06	29.23	14.71	PK
2	2390	48.00	74.00	-26.00	32.76	15.24	PK
! 3	2458.35	103.48	74.00	29.48	87.78	15.70	PK
4	2483.5	61.20	74.00	-12.80	45.35	15.85	PK
5	2484.925	69.50	74.00	-4.50	53.65	15.85	PK
6	2500	45.26	74.00	-28.74	29.32	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2462MHz		

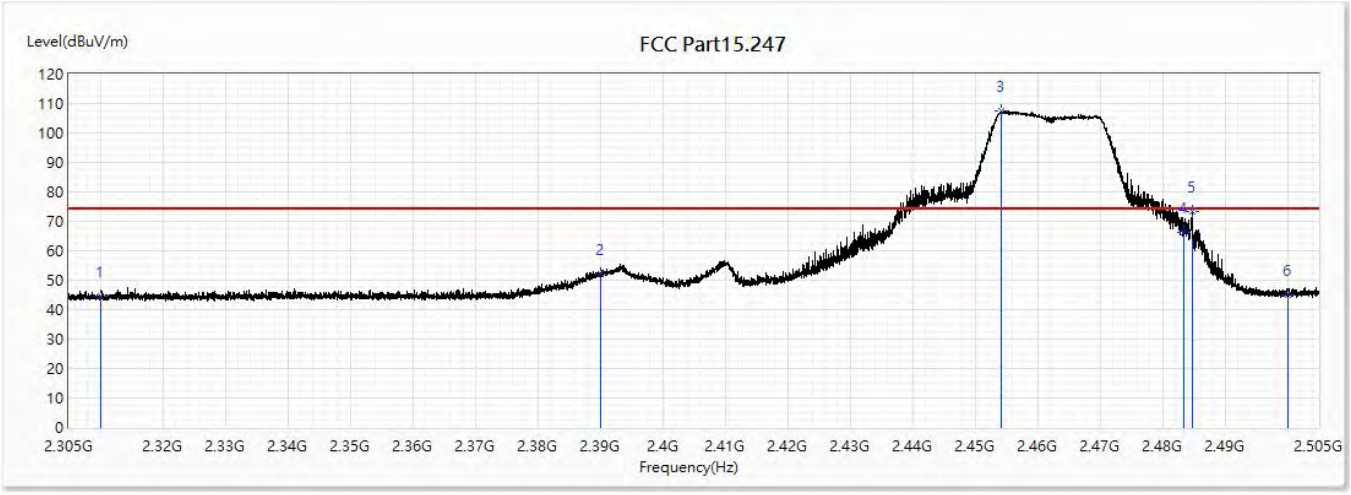


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.91	54.00	-21.09	18.20	14.71	AV
2	2390	37.81	54.00	-16.19	22.57	15.24	AV
! 3	2454.3	92.95	54.00	38.95	77.28	15.67	AV
4	2483.5	43.96	54.00	-10.04	28.11	15.85	AV
5	2483.75	43.54	54.00	-10.46	27.69	15.85	AV
6	2500	34.13	54.00	-19.87	18.19	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2462MHz		

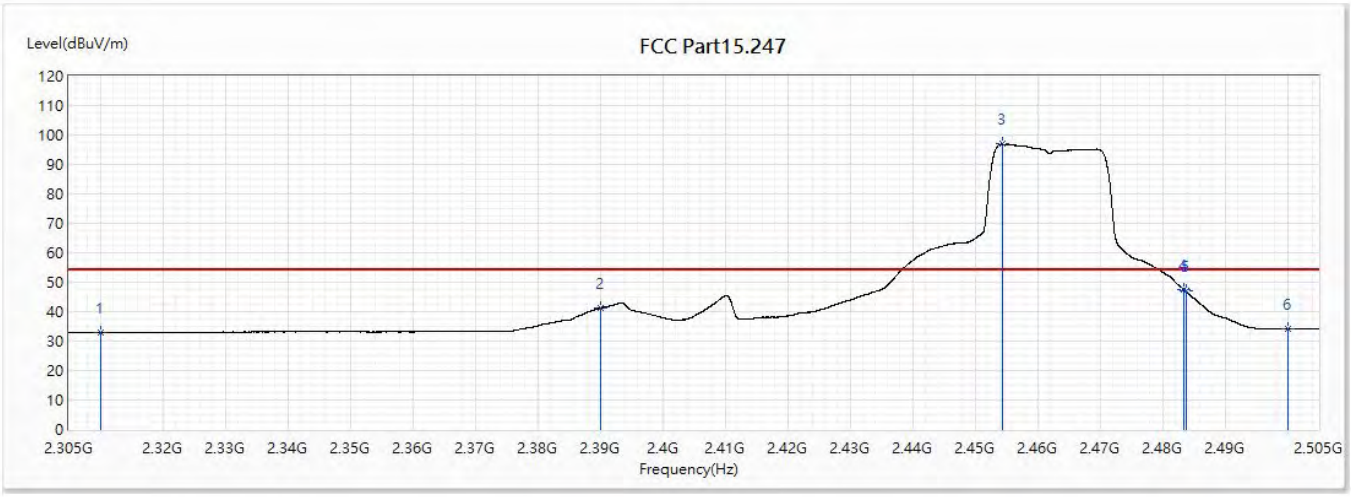


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.64	74.00	-29.36	29.93	14.71	PK
2	2390	52.05	74.00	-21.95	36.81	15.24	PK
! 3	2454.125	107.64	74.00	33.64	91.97	15.67	PK
4	2483.5	66.18	74.00	-7.82	50.33	15.85	PK
5	2484.825	73.22	74.00	-0.78	57.37	15.85	PK
6	2500	45.08	74.00	-28.92	29.14	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/19
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(20M)_2462MHz		

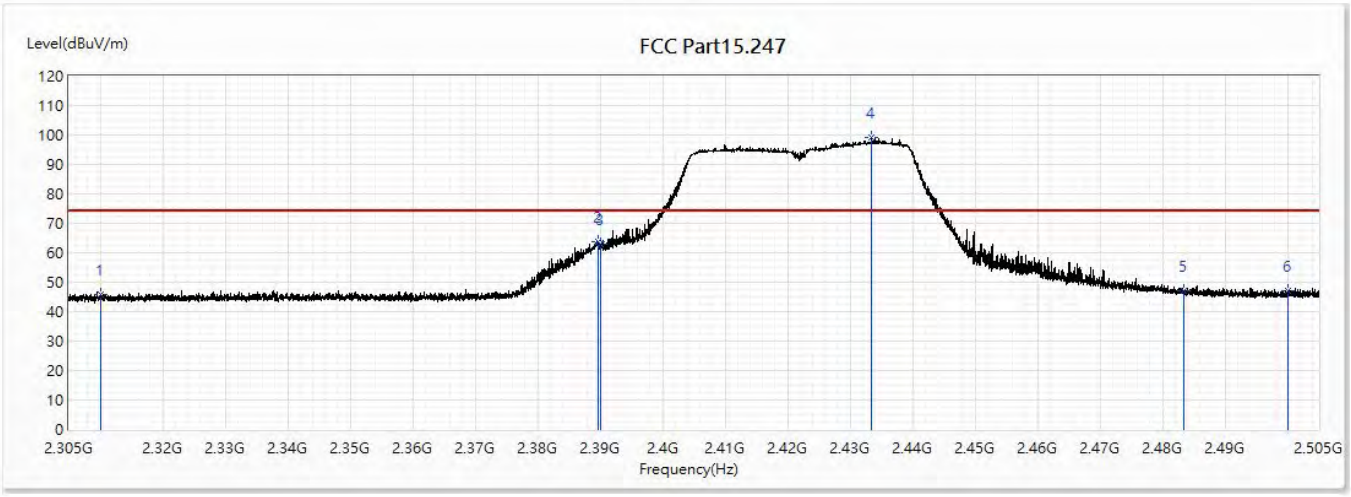


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	32.93	54.00	-21.07	18.22	14.71	AV
2	2390	41.31	54.00	-12.69	26.07	15.24	AV
! 3	2454.4	96.97	54.00	42.97	81.30	15.67	AV
4	2483.5	47.34	54.00	-6.66	31.49	15.85	AV
5	2483.75	46.88	54.00	-7.12	31.03	15.85	AV
6	2500	34.24	54.00	-19.76	18.30	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/26
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2422MHz		

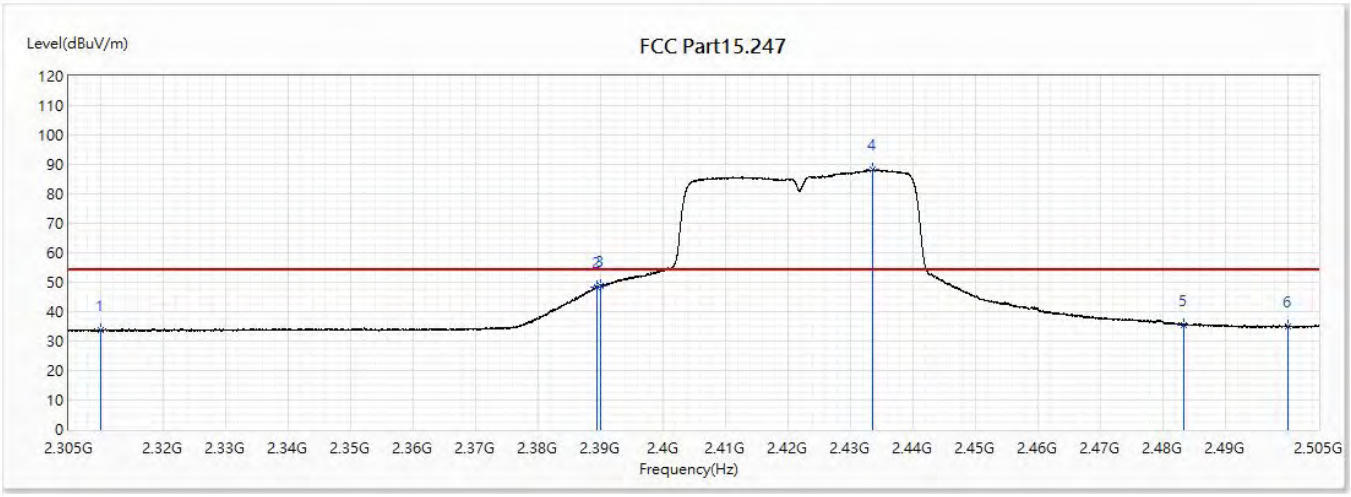


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	46.02	74.00	-27.98	31.31	14.71	PK
2	2389.775	63.92	74.00	-10.08	48.68	15.24	PK
3	2390	62.73	74.00	-11.27	47.49	15.24	PK
! 4	2433.45	99.11	74.00	25.11	83.57	15.54	PK
5	2483.5	47.14	74.00	-26.86	31.29	15.85	PK
6	2500	47.11	74.00	-26.89	31.17	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/26
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2422MHz		

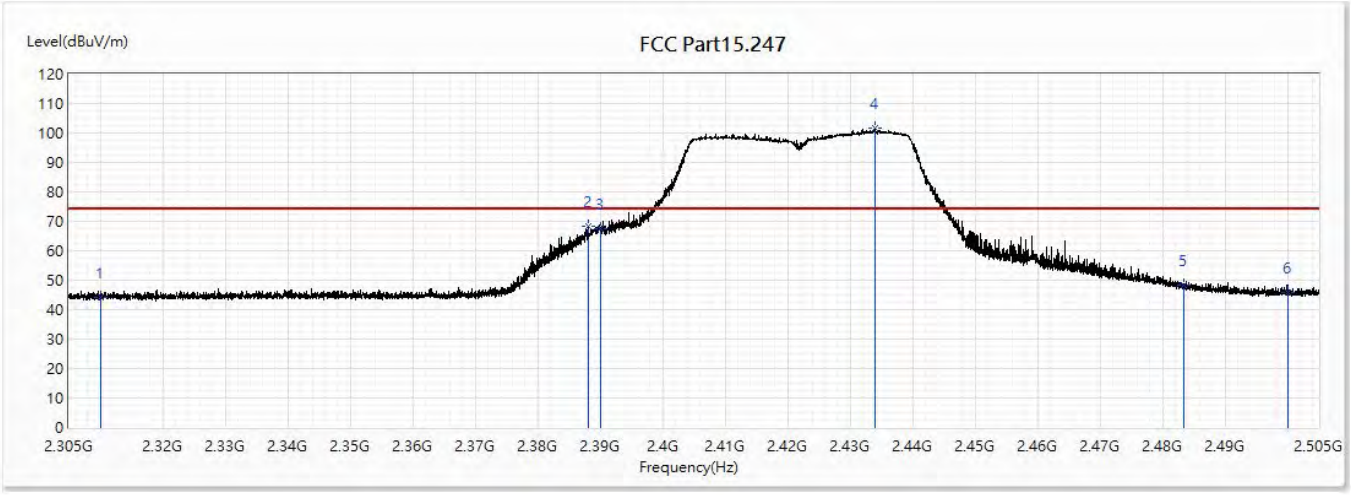


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	33.61	54.00	-20.39	18.90	14.71	AV
2	2389.45	48.29	54.00	-5.71	33.06	15.23	AV
3	2390	48.72	54.00	-5.28	33.48	15.24	AV
! 4	2433.55	88.20	54.00	34.20	72.66	15.54	AV
5	2483.5	35.49	54.00	-18.51	19.64	15.85	AV
6	2500	34.84	54.00	-19.16	18.90	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/26
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2422MHz		

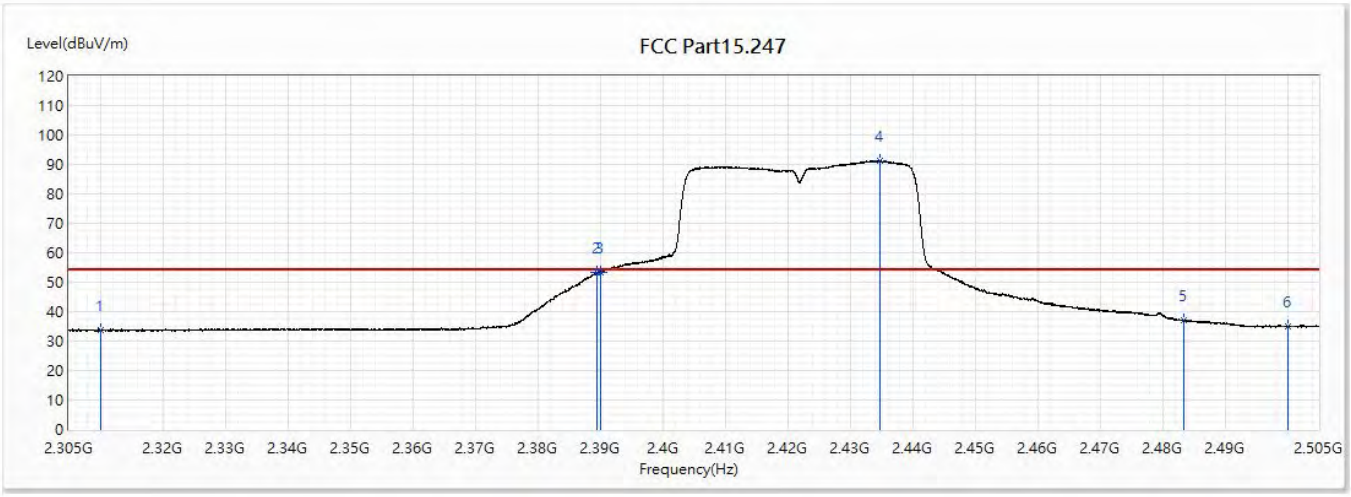


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.12	74.00	-29.88	29.41	14.71	PK
2	2388.05	68.29	74.00	-5.71	53.06	15.23	PK
3	2390	67.46	74.00	-6.54	52.22	15.24	PK
! 4	2434	101.56	74.00	27.56	86.02	15.54	PK
5	2483.5	48.23	74.00	-25.77	32.38	15.85	PK
6	2500	45.64	74.00	-28.36	29.70	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/26
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2422MHz		

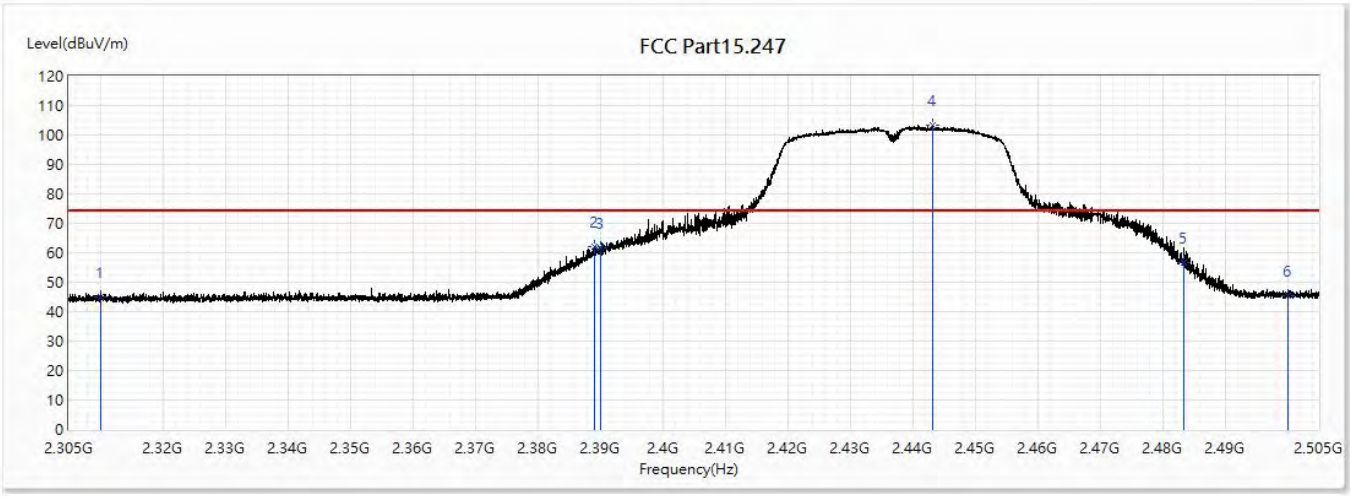


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	33.90	54.00	-20.10	19.19	14.71	AV
2	2389.475	53.13	54.00	-0.87	37.90	15.23	AV
3	2390	53.52	54.00	-0.48	38.28	15.24	AV
! 4	2434.725	91.27	54.00	37.27	75.73	15.54	AV
5	2483.5	37.01	54.00	-16.99	21.16	15.85	AV
6	2500	34.95	54.00	-19.05	19.01	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/26
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2437MHz		

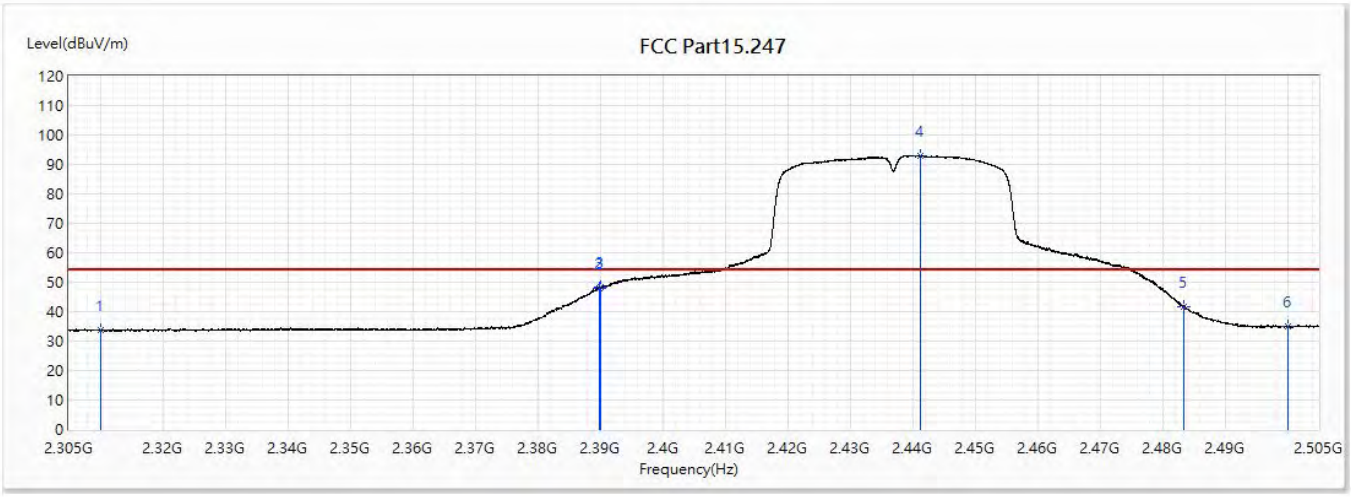


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.94	74.00	-29.06	30.23	14.71	PK
2	2389.175	62.17	74.00	-11.83	46.94	15.23	PK
3	2390	61.58	74.00	-12.42	46.34	15.24	PK
! 4	2443.2	103.33	74.00	29.33	87.73	15.60	PK
5	2483.5	56.53	74.00	-17.47	40.68	15.85	PK
6	2500	45.39	74.00	-28.61	29.45	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/26
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2437MHz		

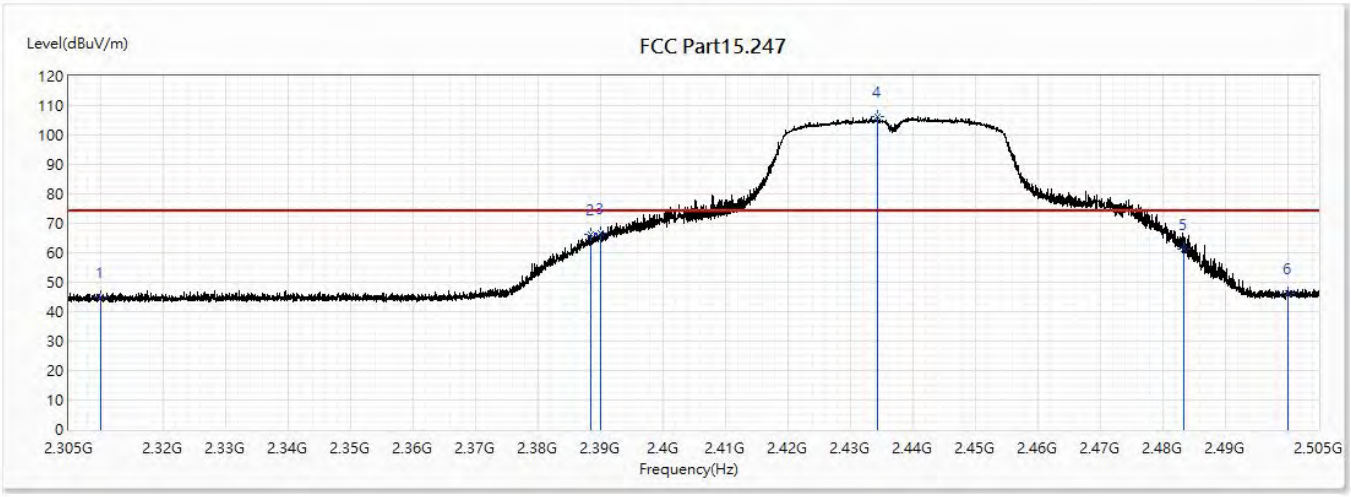


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	33.59	54.00	-20.41	18.88	14.71	AV
2	2389.875	47.93	54.00	-6.07	32.69	15.24	AV
3	2390	48.20	54.00	-5.80	32.96	15.24	AV
! 4	2441.2	93.12	54.00	39.12	77.53	15.59	AV
5	2483.5	41.80	54.00	-12.20	25.95	15.85	AV
6	2500	35.00	54.00	-19.00	19.06	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/26
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2437MHz		

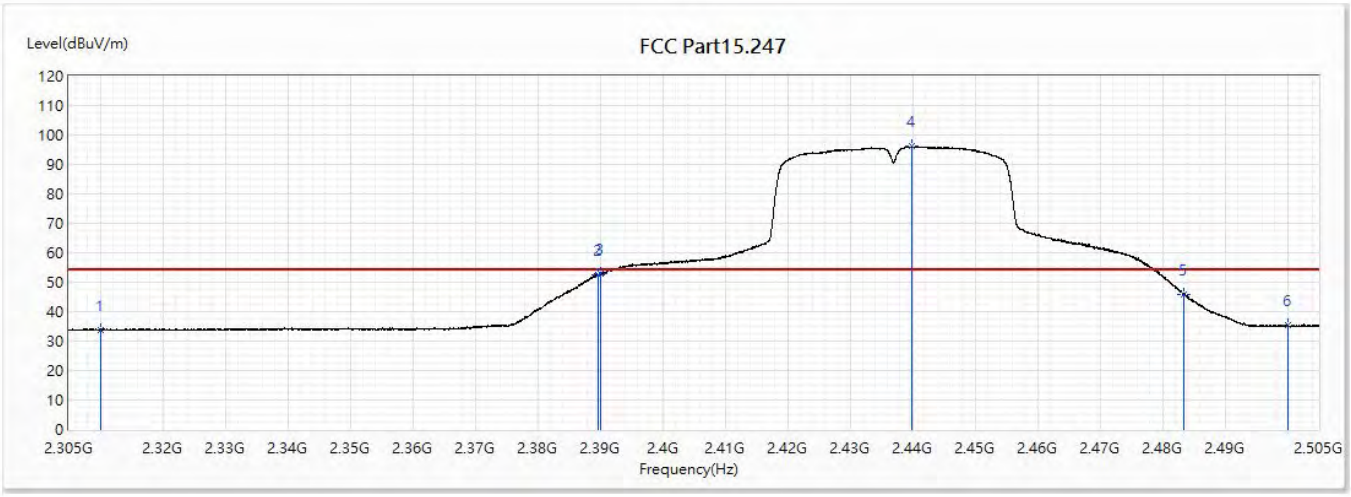


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.85	74.00	-29.15	30.14	14.71	PK
2	2388.55	66.40	74.00	-7.60	51.17	15.23	PK
3	2390	66.51	74.00	-7.49	51.27	15.24	PK
! 4	2434.5	106.16	74.00	32.16	90.62	15.54	PK
5	2483.5	61.44	74.00	-12.56	45.59	15.85	PK
6	2500	46.37	74.00	-27.63	30.43	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/26
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2437MHz		

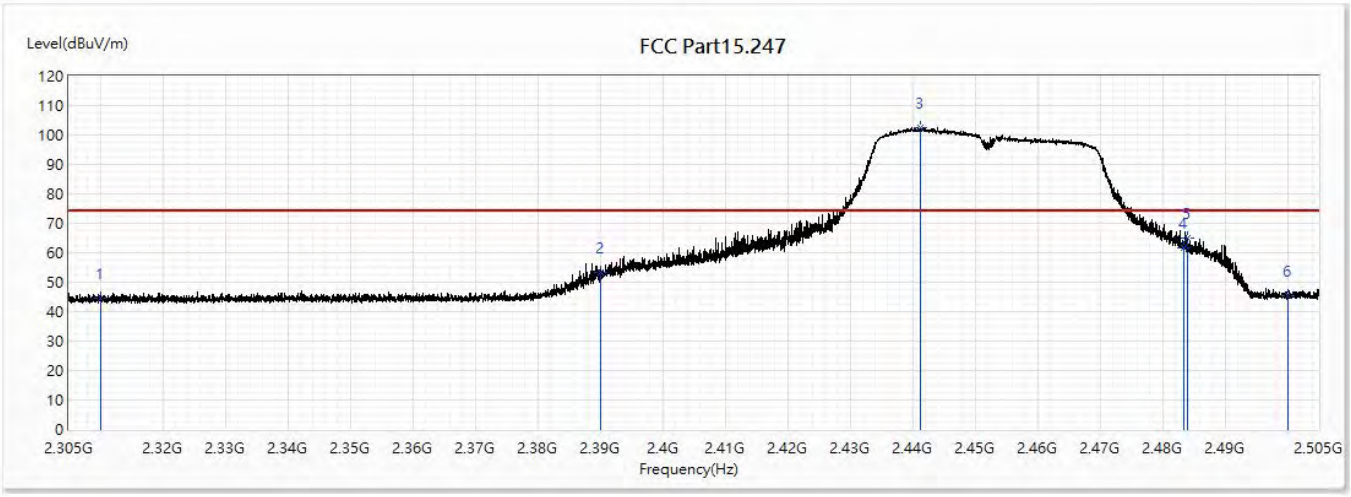


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	33.80	54.00	-20.20	19.09	14.71	AV
2	2389.75	52.45	54.00	-1.55	37.21	15.24	AV
3	2390	52.95	54.00	-1.05	37.71	15.24	AV
! 4	2439.875	96.05	54.00	42.05	80.47	15.58	AV
5	2483.5	45.64	54.00	-8.36	29.79	15.85	AV
6	2500	35.30	54.00	-18.70	19.36	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/26
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2462MHz		

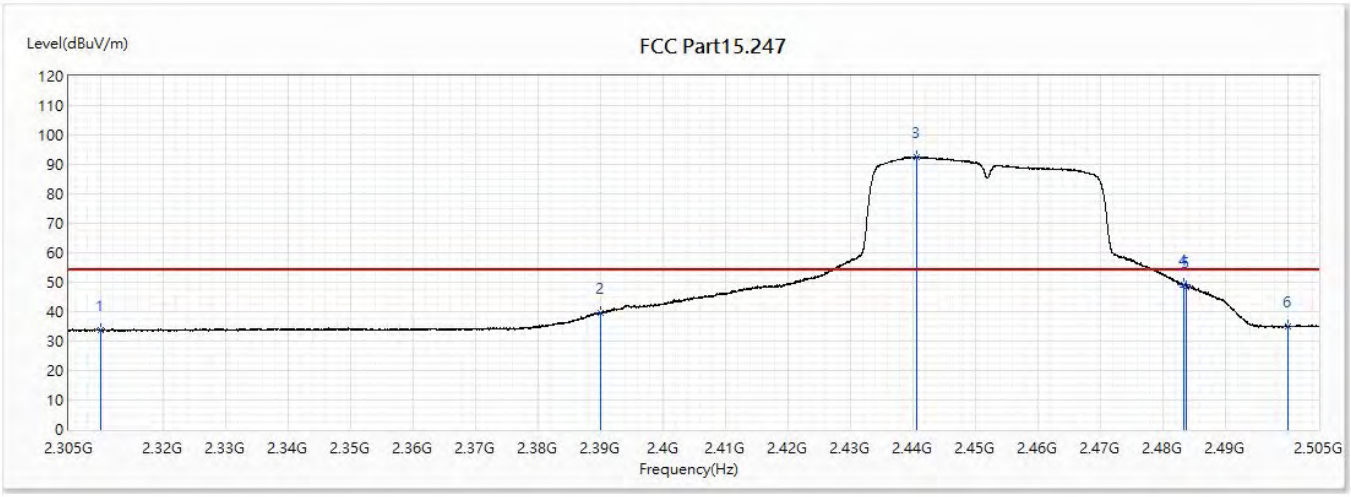


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.60	74.00	-29.40	29.89	14.71	PK
2	2390	53.20	74.00	-20.80	37.96	15.24	PK
! 3	2441.25	102.65	74.00	28.65	87.06	15.59	PK
4	2483.5	61.87	74.00	-12.13	46.02	15.85	PK
5	2484.025	64.92	74.00	-9.08	49.07	15.85	PK
6	2500	45.49	74.00	-28.51	29.55	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/26
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2462MHz		

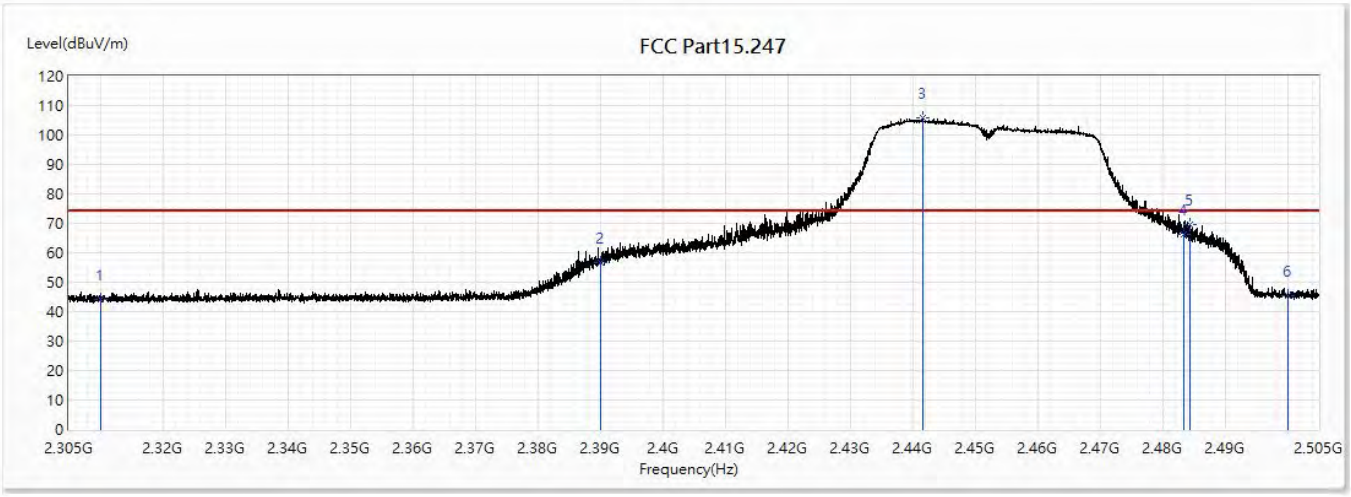


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	33.85	54.00	-20.15	19.14	14.71	AV
2	2390	39.71	54.00	-14.29	24.47	15.24	AV
! 3	2440.625	92.69	54.00	38.69	77.10	15.59	AV
4	2483.5	49.03	54.00	-4.97	33.18	15.85	AV
5	2483.75	48.51	54.00	-5.49	32.66	15.85	AV
6	2500	35.05	54.00	-18.95	19.11	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/26
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2462MHz		

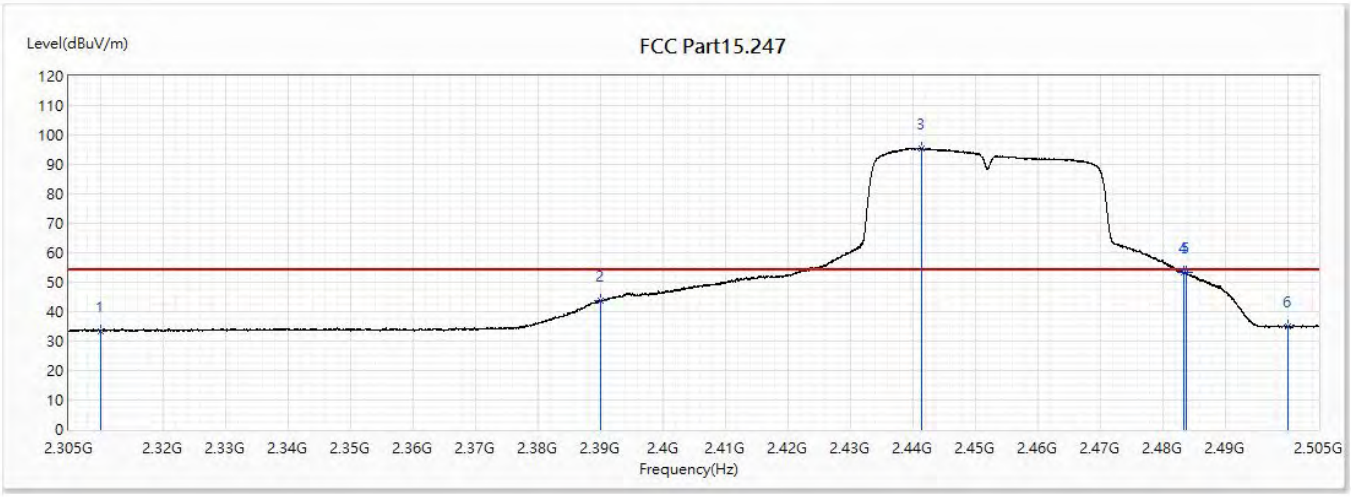


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.12	74.00	-29.88	29.41	14.71	PK
2	2390	56.73	74.00	-17.27	41.49	15.24	PK
! 3	2441.575	105.72	74.00	31.72	90.13	15.59	PK
4	2483.5	66.09	74.00	-7.91	50.24	15.85	PK
5	2484.45	69.72	74.00	-4.28	53.87	15.85	PK
6	2500	45.40	74.00	-28.60	29.46	15.94	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Elwin
Model No :	NP311D	Test Date :	2019/4/26
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit		
Note :	802.11n(40M)_2462MHz		



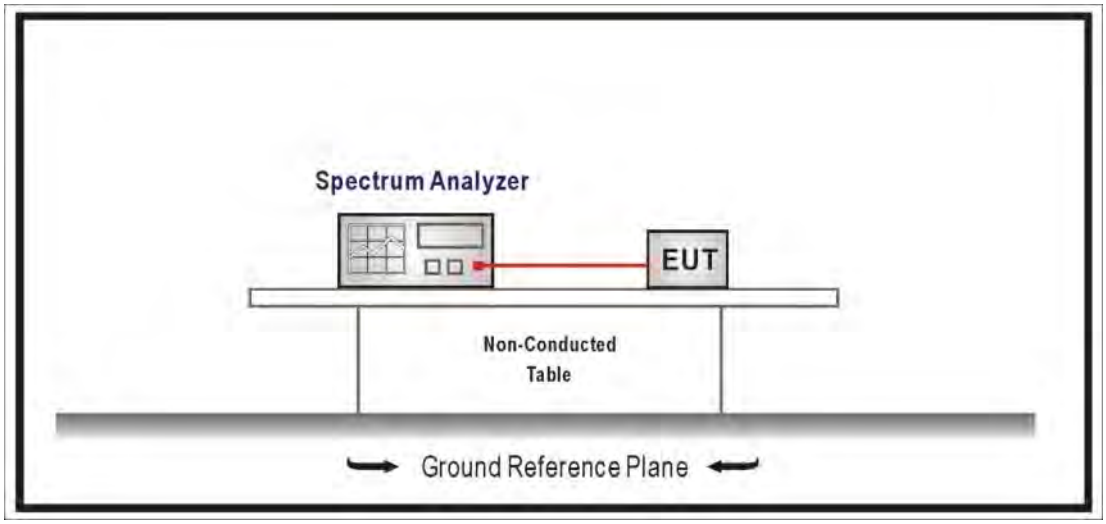
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	33.51	54.00	-20.49	18.80	14.71	AV
2	2390	43.84	54.00	-10.16	28.60	15.24	AV
! 3	2441.4	95.48	54.00	41.48	79.89	15.59	AV
4	2483.5	53.47	54.00	-0.53	37.62	15.85	AV
5	2483.75	53.17	54.00	-0.83	37.32	15.85	AV
6	2500	35.12	54.00	-18.88	19.18	15.94	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “! ”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. 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.
7. 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 section 8.1 of KDB558074 D01 V05 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100KHz, Set the VBW≧3xRBW, Sweep Time=Auto, Set Peak Detector.

7.3. Limits

The 6 dB bandwidth must be greater than 500 kHz.

7.4. Test Specification

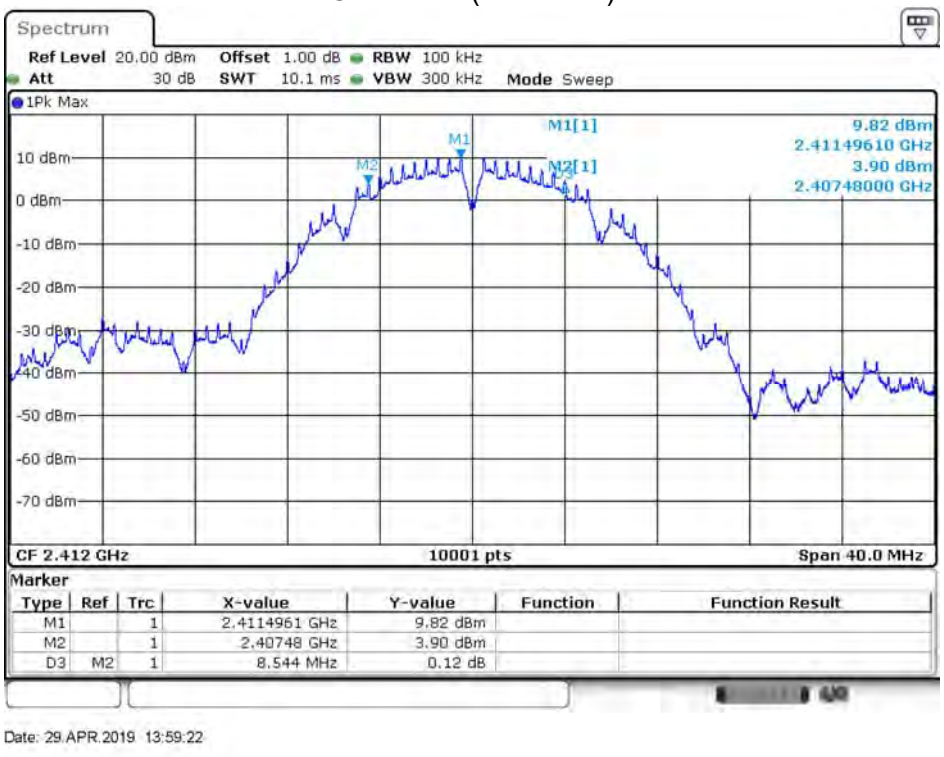
According to FCC Part 15 Subpart C Paragraph 15.247: 2017

7.5. Test Result

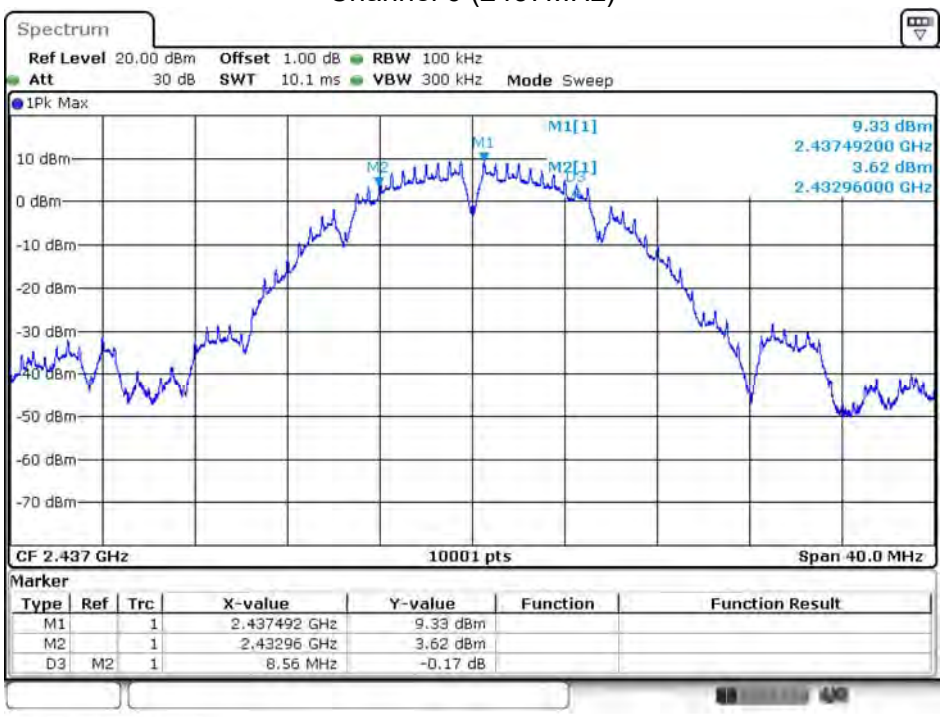
Product	NAIL PRINTER		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/29	Test Site	SR10-H

802.11b (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	8.544	≧0.5	Pass
6	2437	8.560	≧0.5	Pass
11	2462	9.032	≧0.5	Pass

Channel 1 (2412MHz)

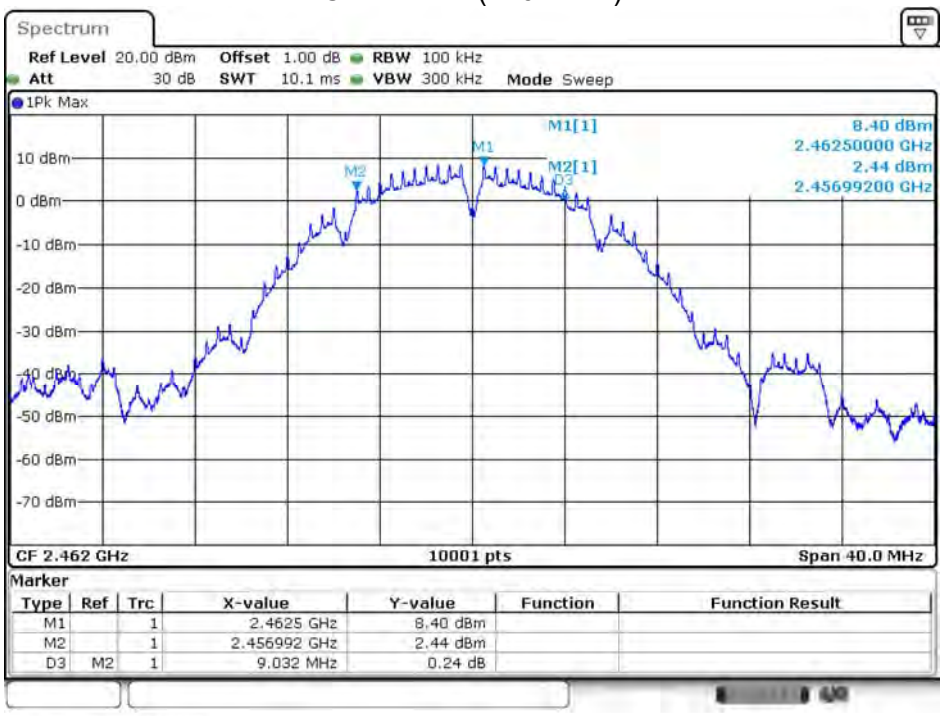


Channel 6 (2437MHz)



Date: 29.APR.2019 14:00:26

Channel 11 (2462MHz)

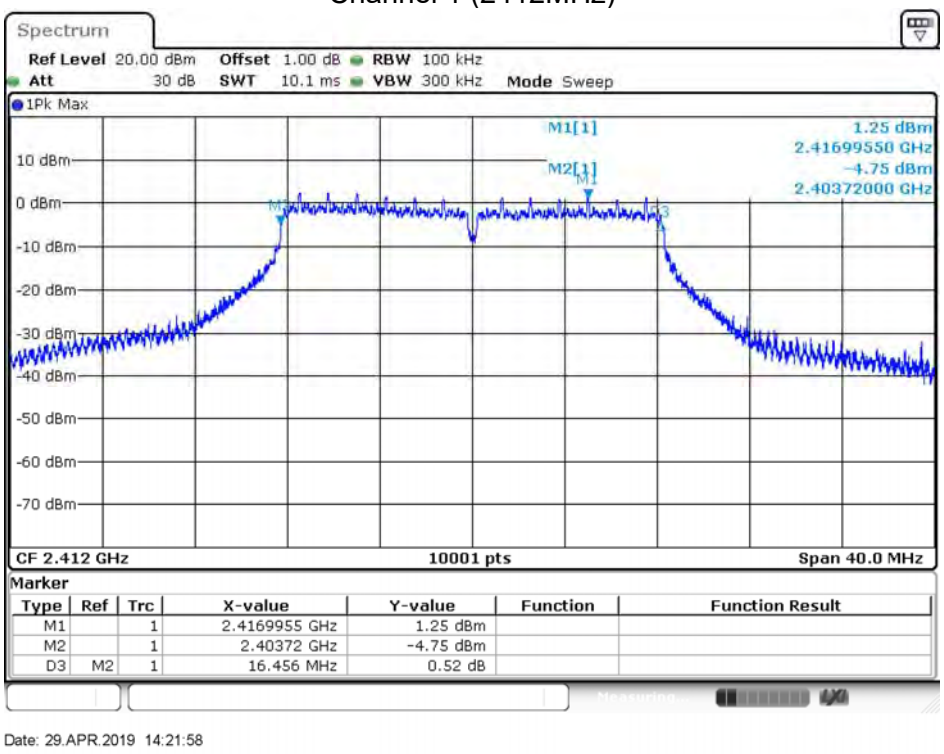


Date: 29.APR.2019 14:07:21

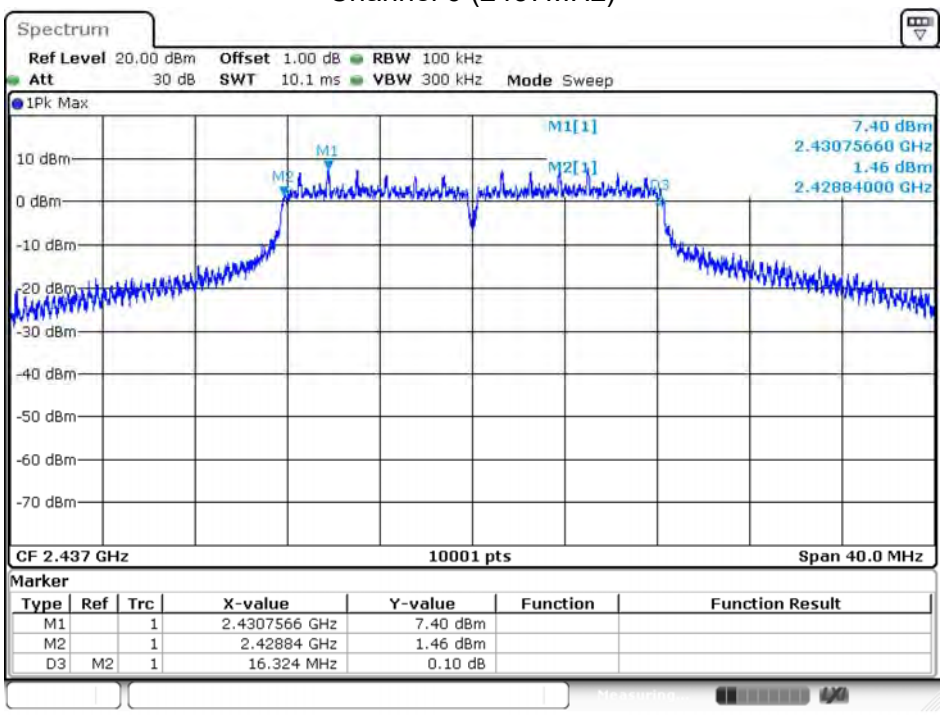
Product	NAIL PRINTER		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/29	Test Site	SR10-H

802.11g (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	16.456	≧0.5	Pass
6	2437	16.324	≧0.5	Pass
11	2462	16.452	≧0.5	Pass

Channel 1 (2412MHz)

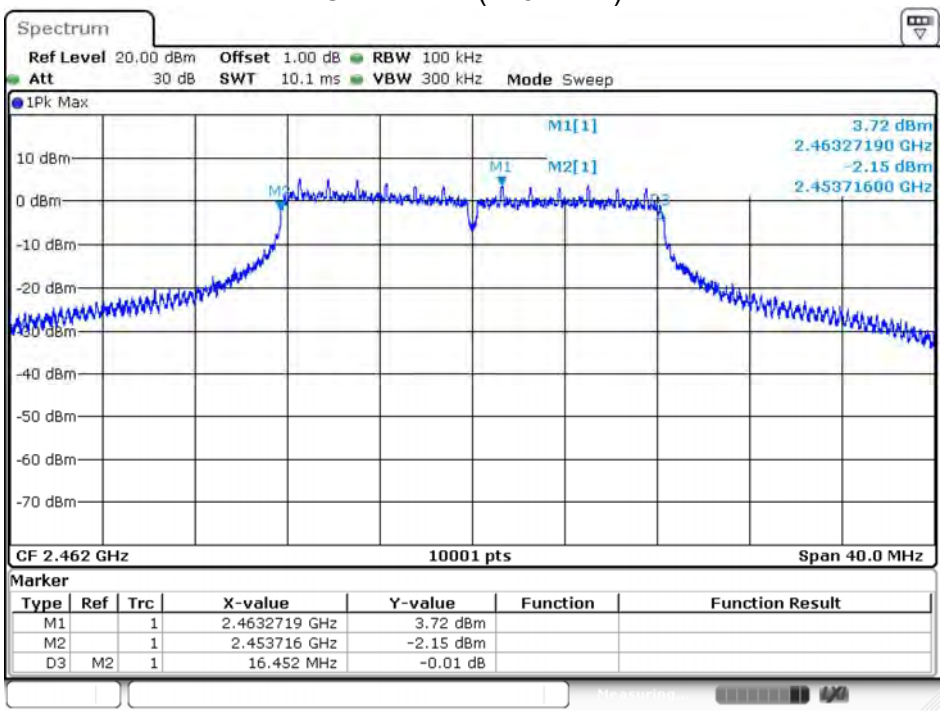


Channel 6 (2437MHz)



Date: 29.APR.2019 14:47:27

Channel 11 (2462MHz)

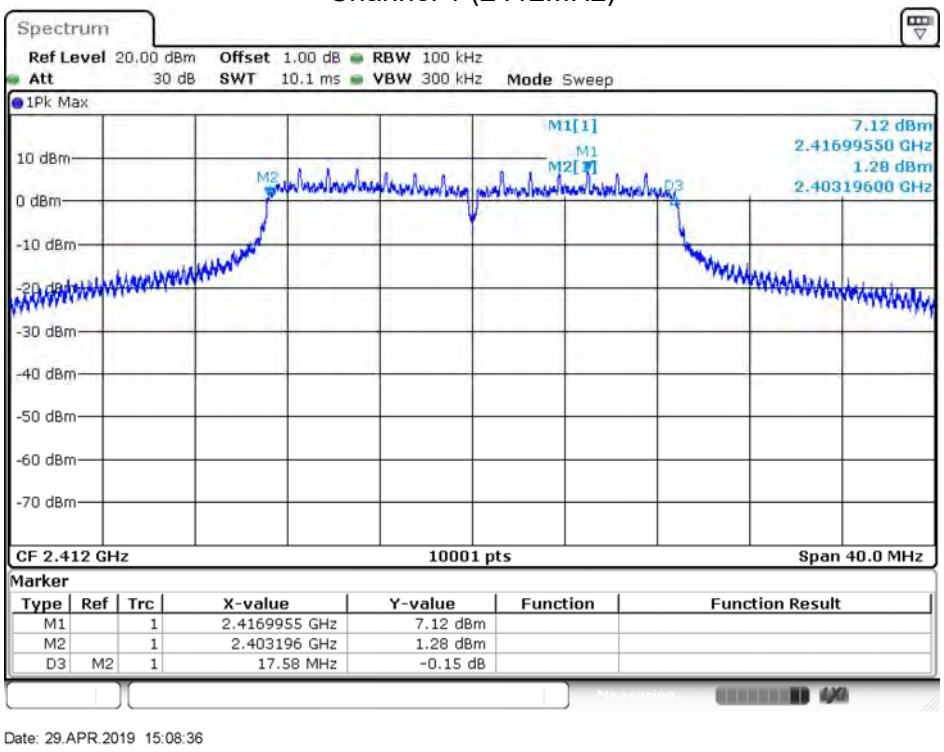


Date: 29.APR.2019 14:13:48

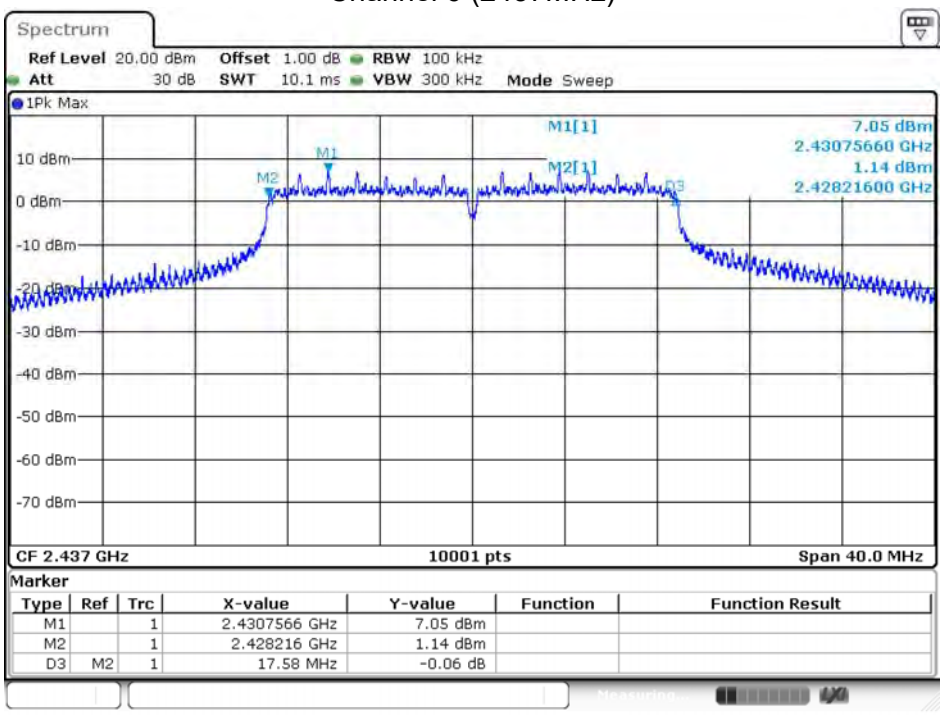
Product	NAIL PRINTER		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/29	Test Site	SR10-H

IEEE 802.11n 20M (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	17.58	≧0.5	Pass
6	2437	17.58	≧0.5	Pass
11	2462	17.62	≧0.5	Pass

Channel 1 (2412MHz)

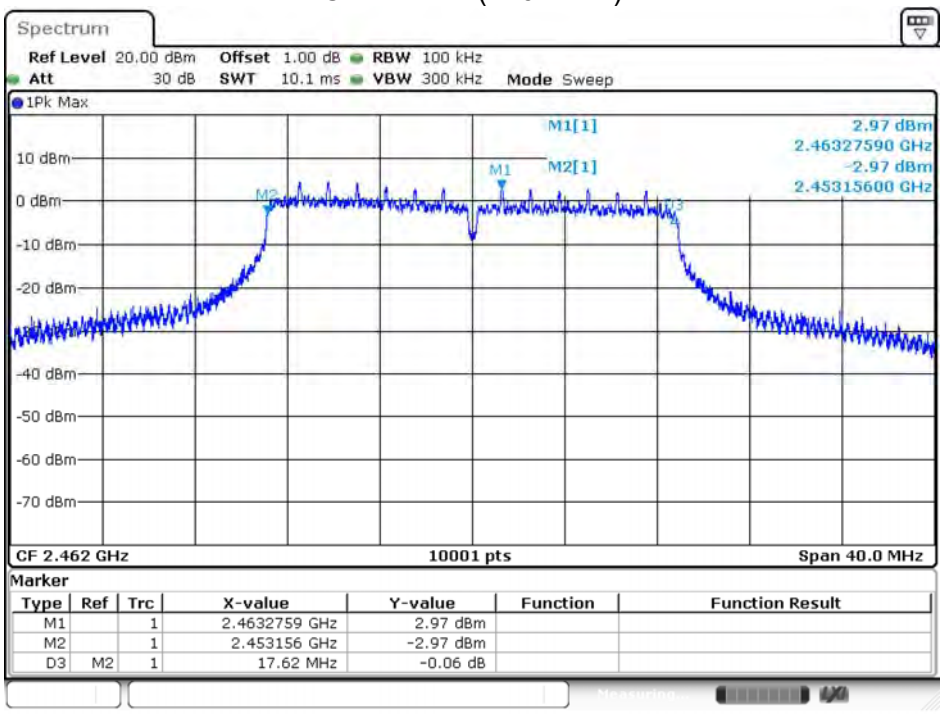


Channel 6 (2437MHz)



Date: 29.APR.2019 15:05:58

Channel 11 (2462MHz)

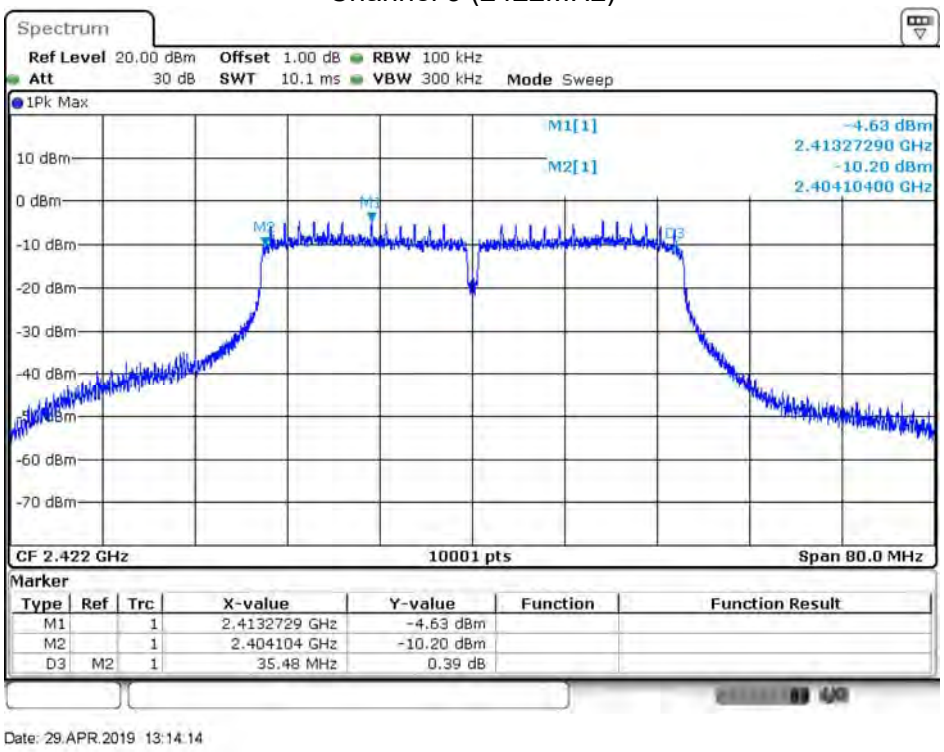


Date: 29.APR.2019 15:09:54

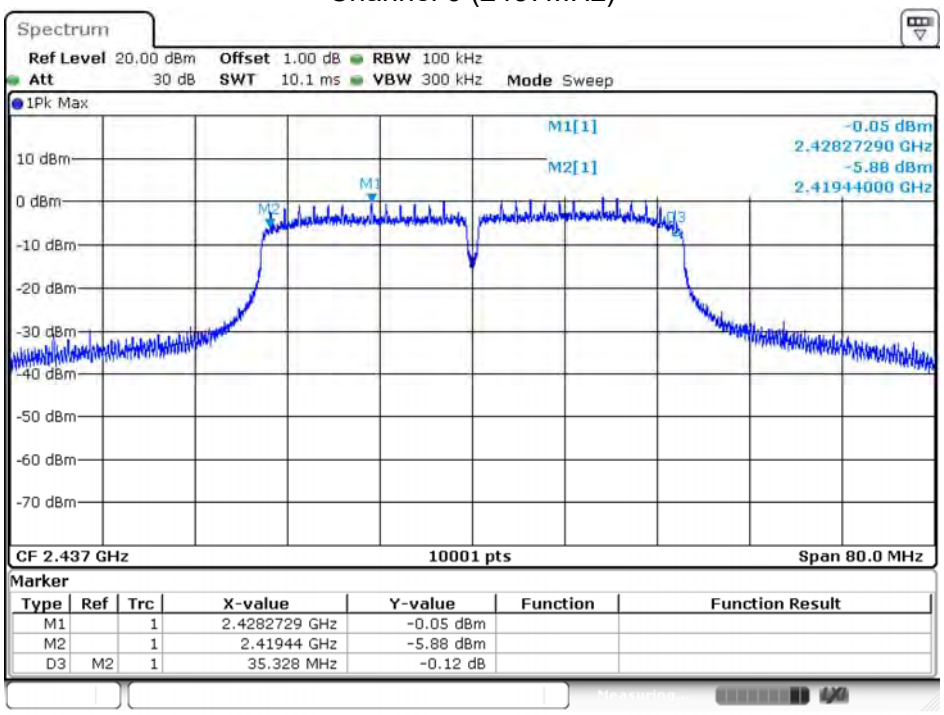
Product	NAIL PRINTER		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/29	Test Site	SR10-H

IEEE 802.11n 40M (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
3	2422	35.480	≧0.5	Pass
6	2437	35.328	≧0.5	Pass
9	2452	35.464	≧0.5	Pass

Channel 3 (2422MHz)

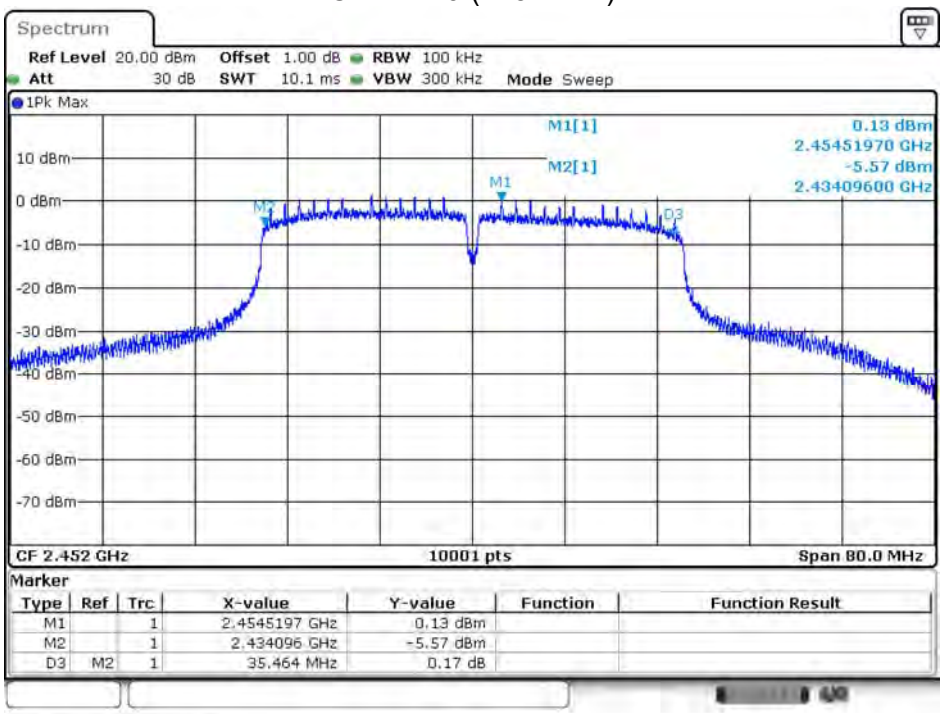


Channel 6 (2437MHz)



Date: 29.APR.2019 13:12:29

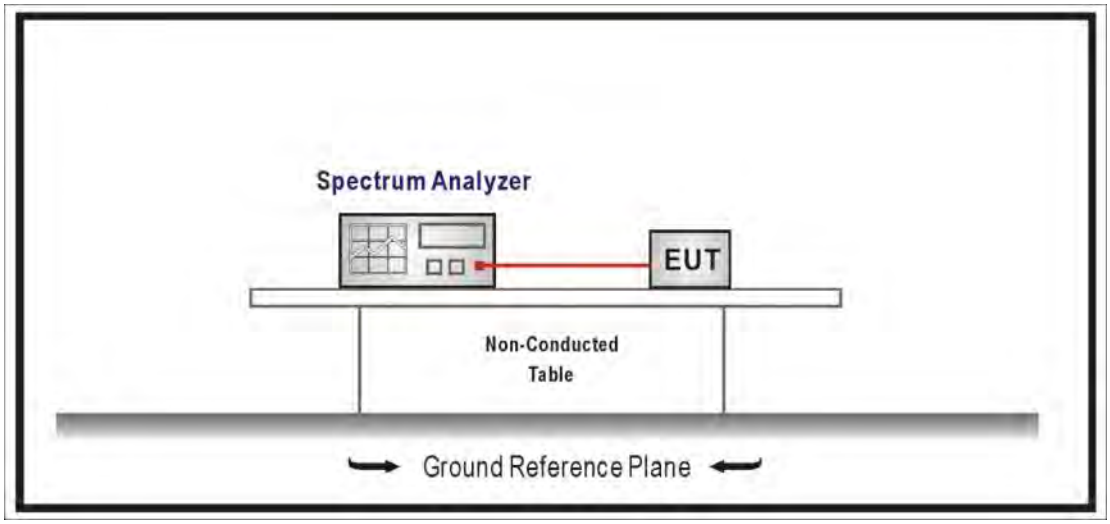
Channel 9 (2452MHz)



Date: 29.APR.2019 13:09:46

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 KDB558074 D01 V05 for compliance to FCC 47CFR 15.247 requirements.
Set RBW = 1-5% of the OBW, Set the VBW≧3xRBW, Sweep Time=Auto.

8.3. Limits

N/A

8.4. Test Specification

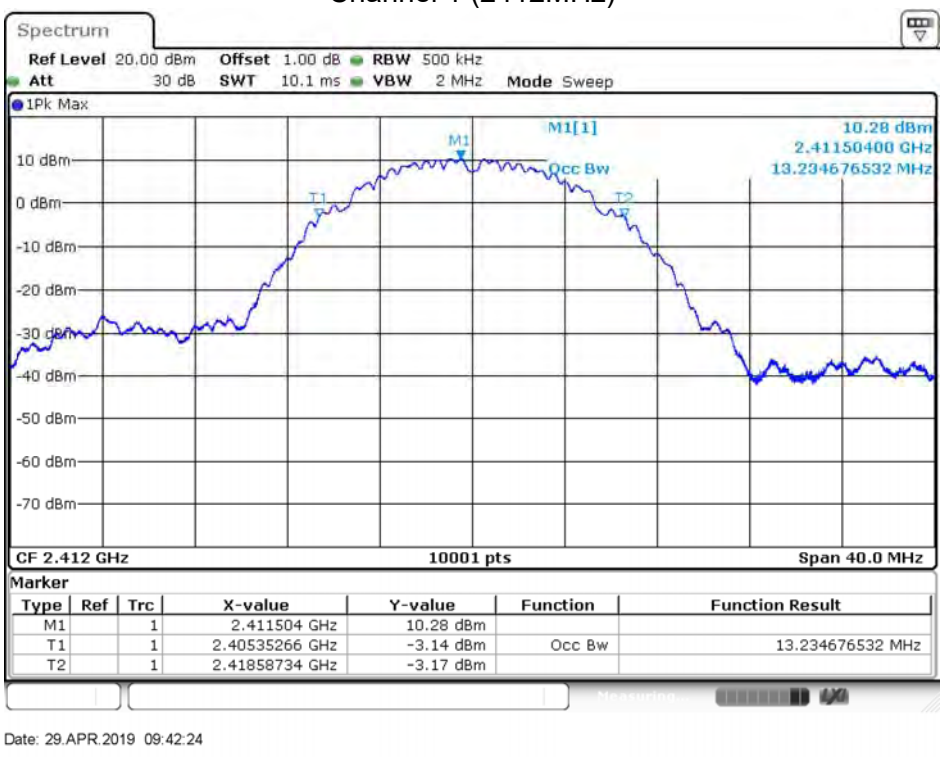
According to FCC Part 15 Subpart C Paragraph 15.247: 2017

8.5. Test Result

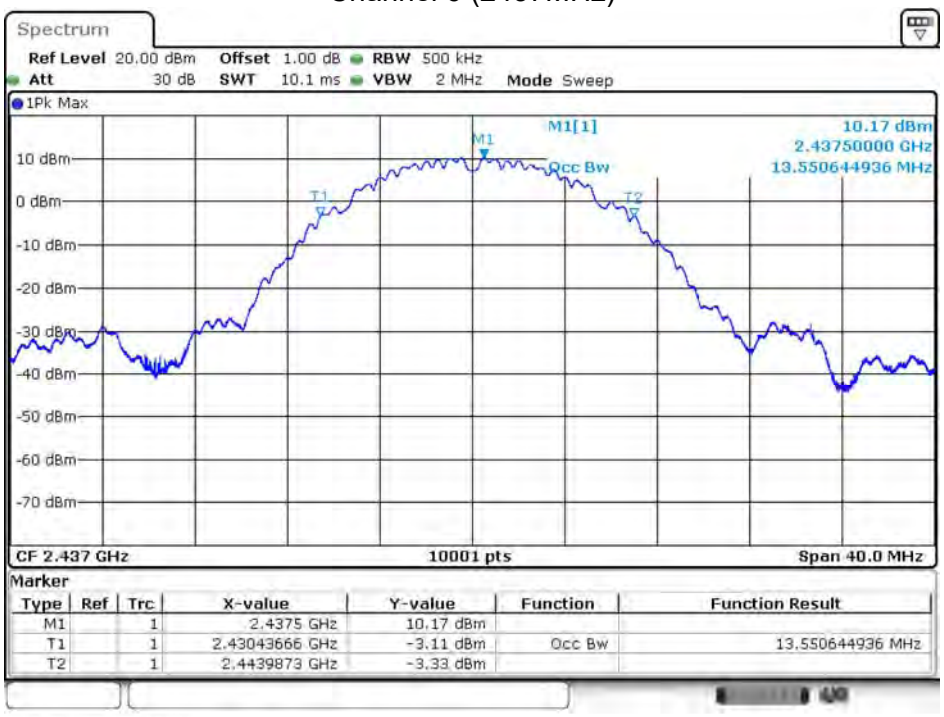
Product	NAIL PRINTER		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/29	Test Site	SR10-H

802.11b (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	13.234	---
6	2437	13.550	---
11	2462	13.526	---

Channel 1 (2412MHz)

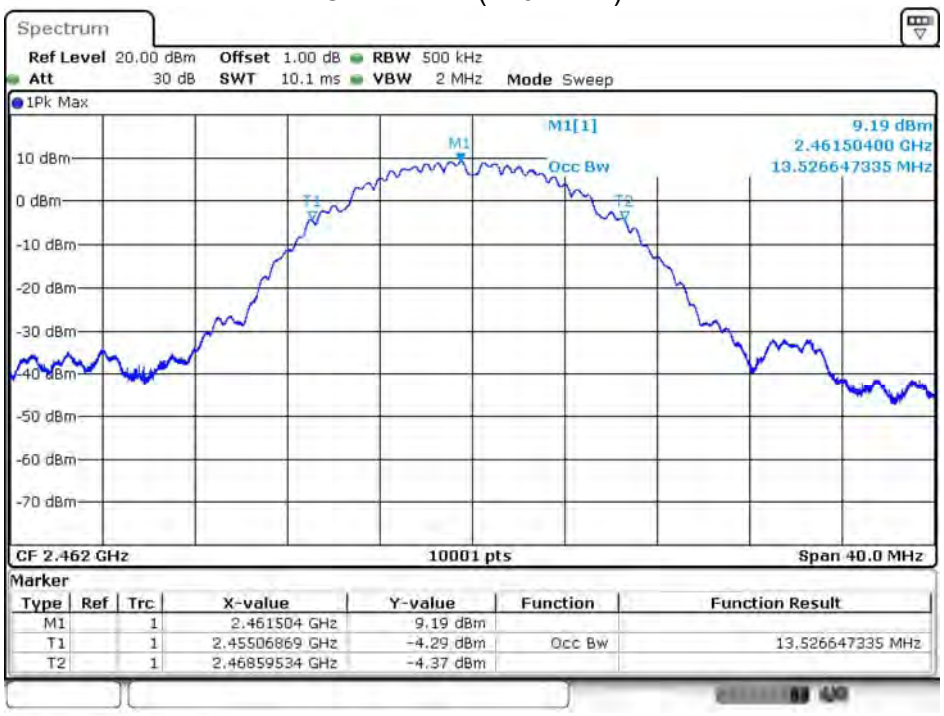


Channel 6 (2437MHz)



Date: 29.APR.2019 11:46:44

Channel 11 (2462MHz)

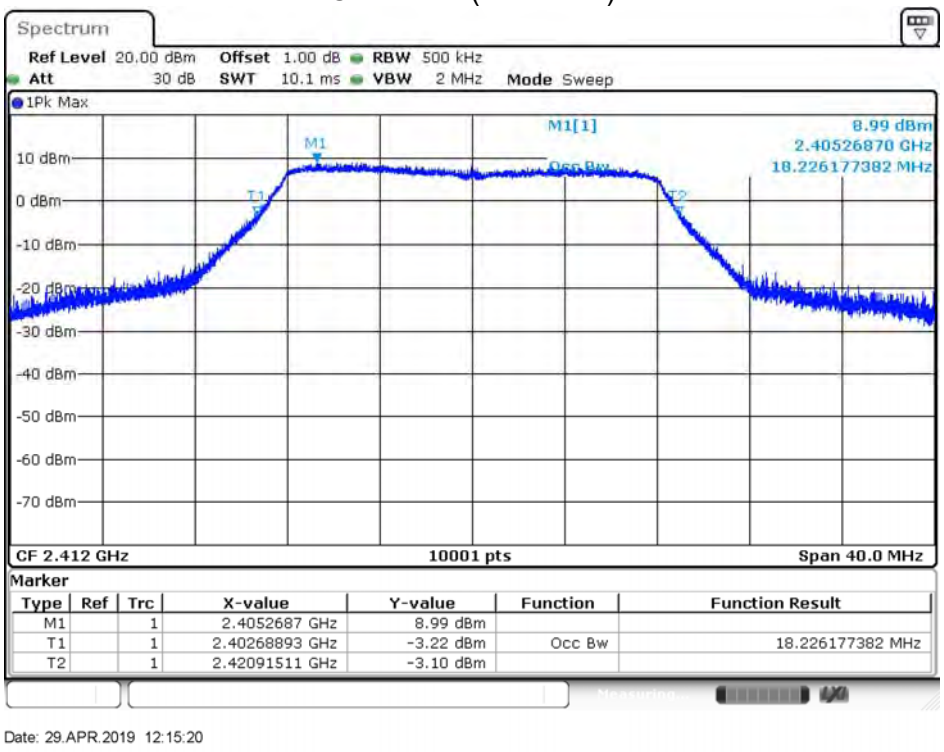


Date: 29.APR.2019 11:51:34

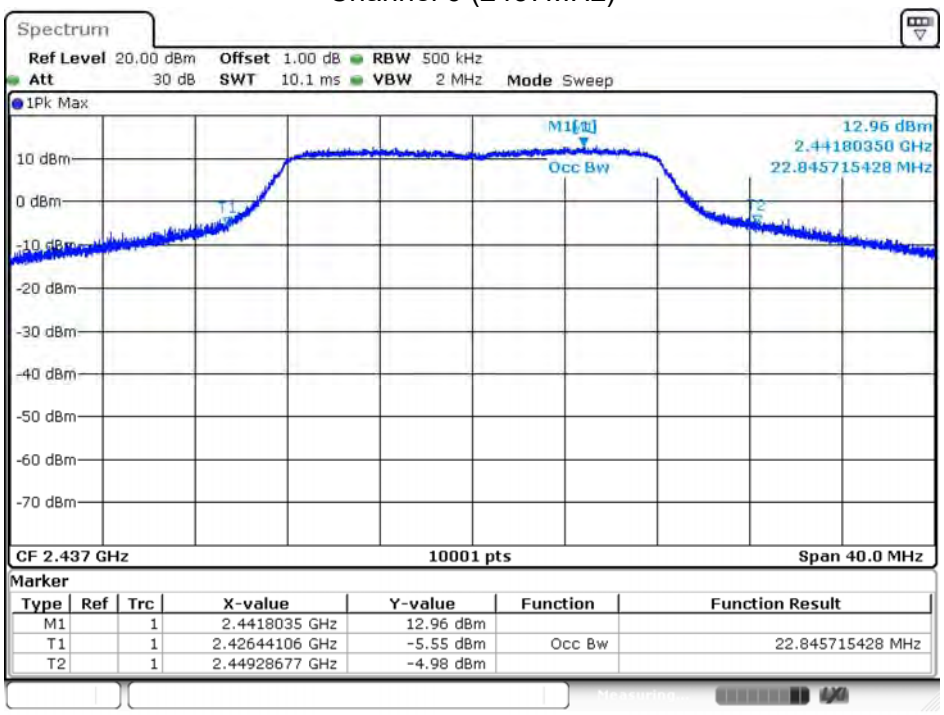
Product	NAIL PRINTER		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/29	Test Site	SR10-H

802.11g (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	18.226	---
6	2437	22.845	---
11	2462	18.786	---

Channel 1 (2412MHz)

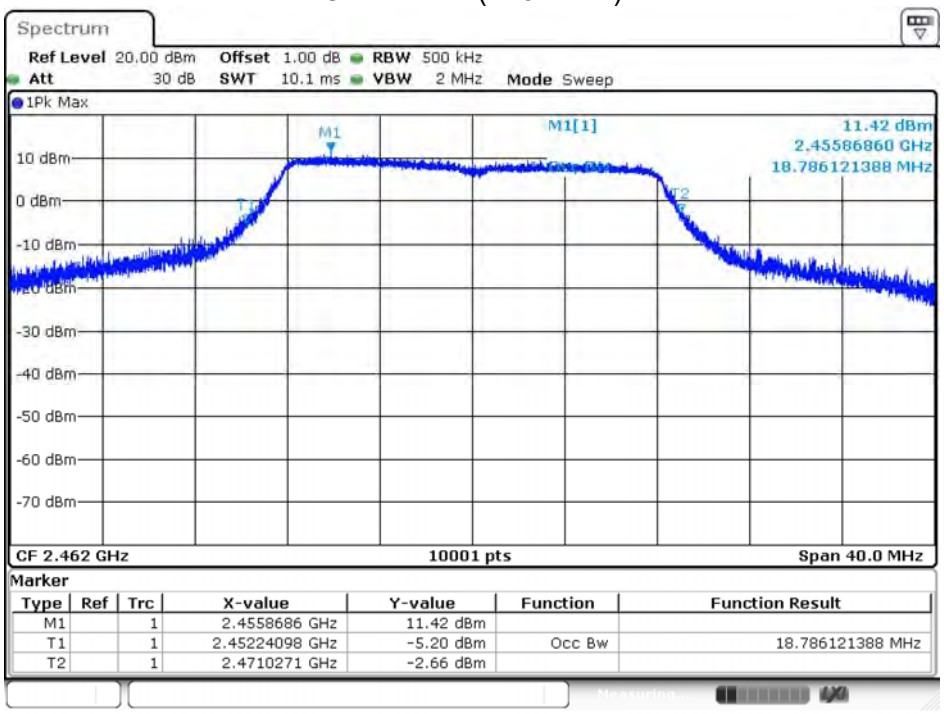


Channel 6 (2437MHz)



Date: 29.APR.2019 12:12:23

Channel 11 (2462MHz)

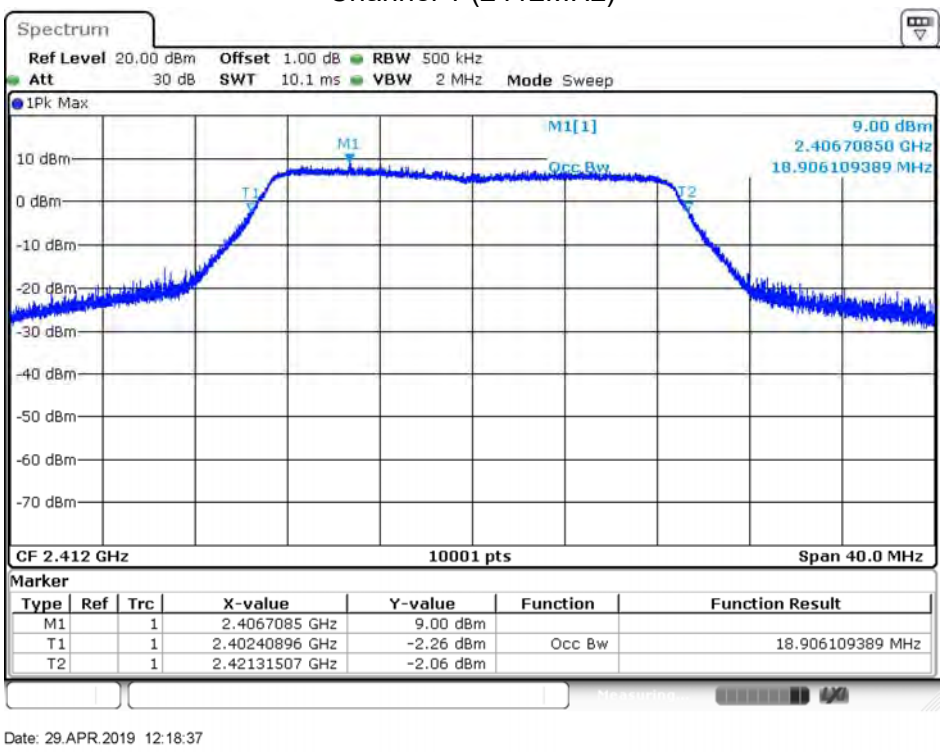


Date: 29.APR.2019 11:58:32

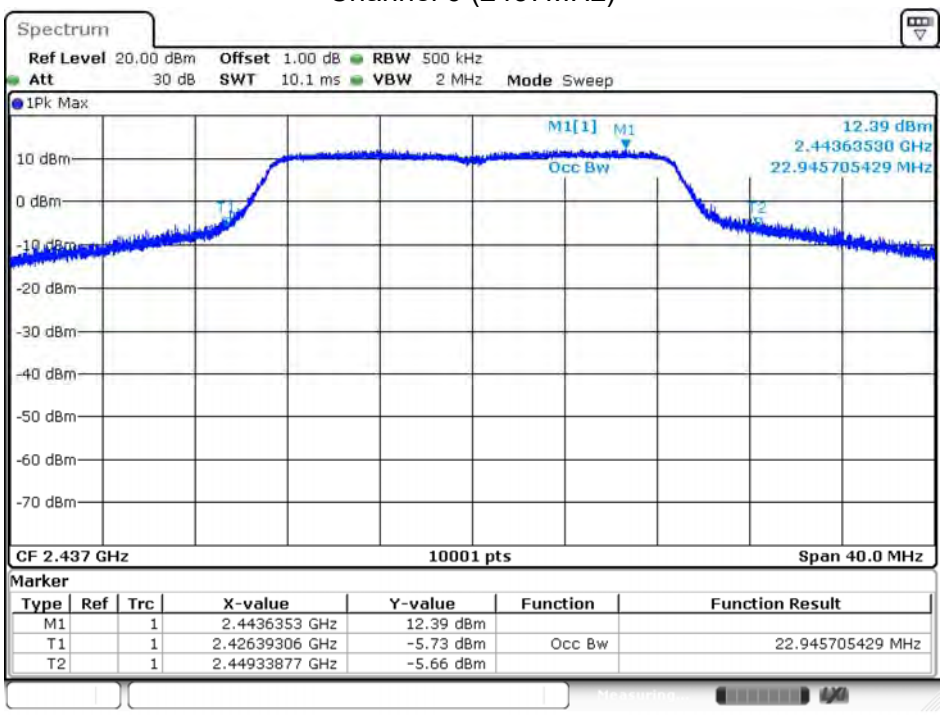
Product	NAIL PRINTER		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/29	Test Site	SR10-H

IEEE 802.11n 20M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	18.906	---
6	2437	22.945	---
11	2462	19.514	---

Channel 1 (2412MHz)

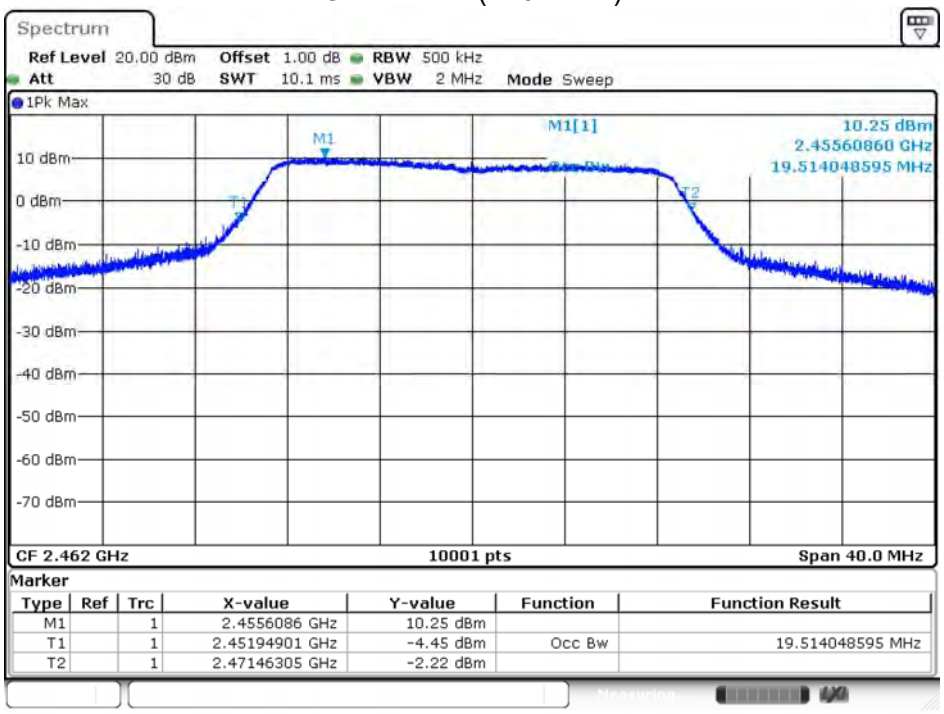


Channel 6 (2437MHz)



Date: 29.APR.2019 12:20:57

Channel 11 (2462MHz)

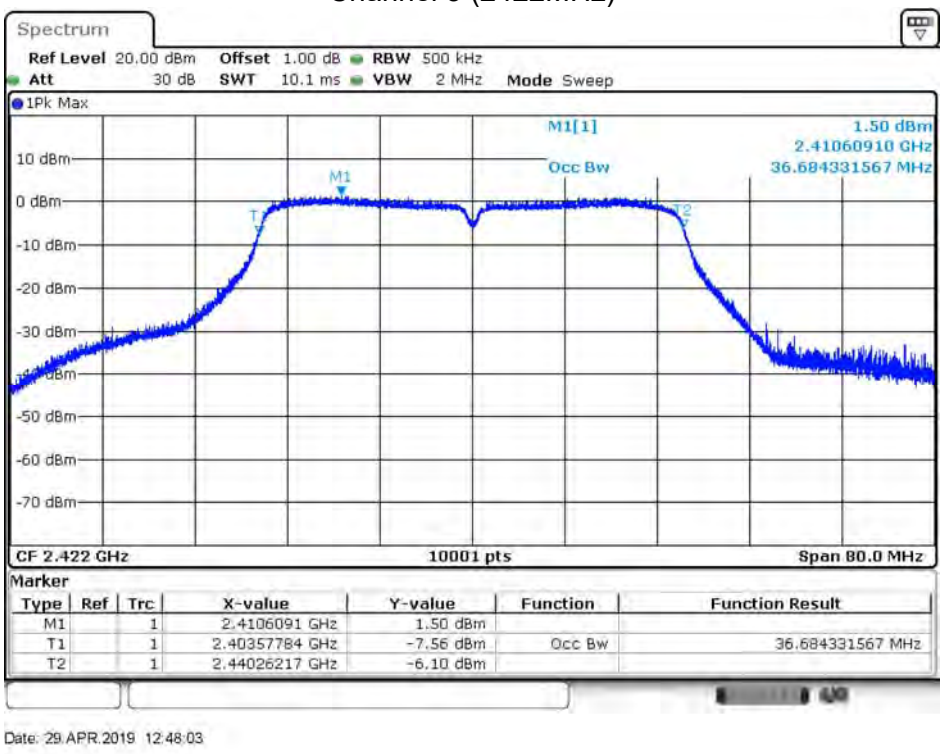


Date: 29.APR.2019 12:37:14

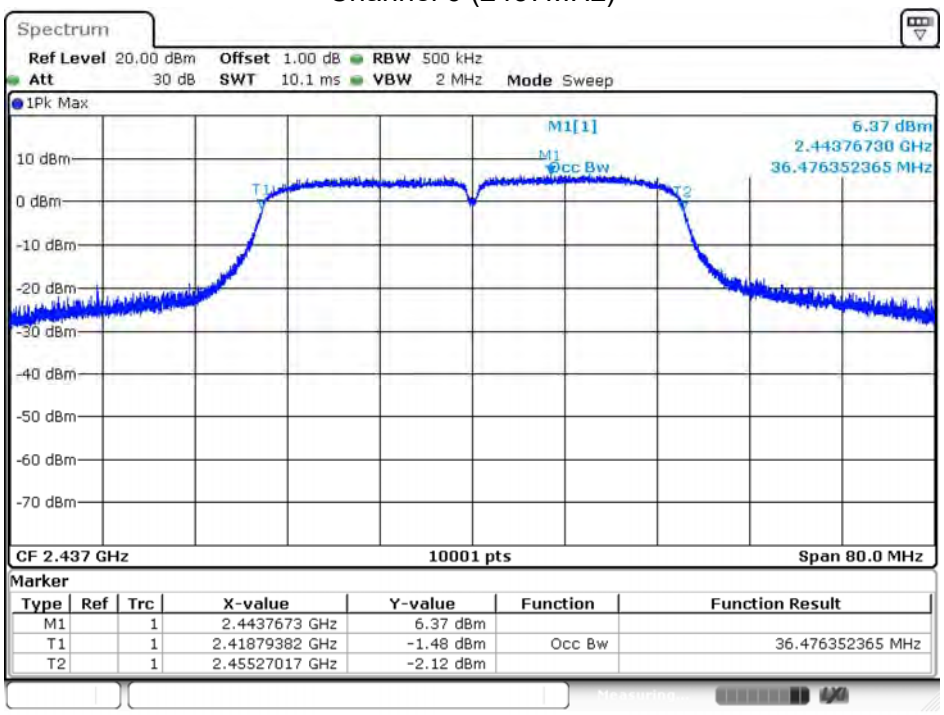
Product	NAIL PRINTER		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/29	Test Site	SR10-H

IEEE 802.11n 40M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
3	2422	36.684	---
6	2437	36.476	---
9	2452	36.348	---

Channel 3 (2422MHz)

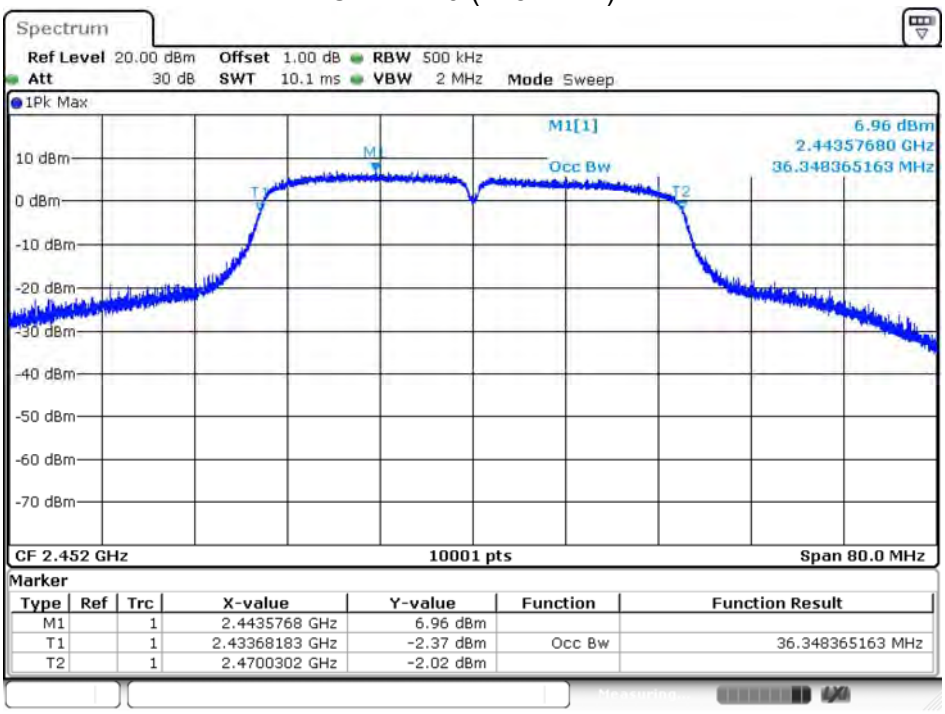


Channel 6 (2437MHz)



Date: 29.APR.2019 12:50:54

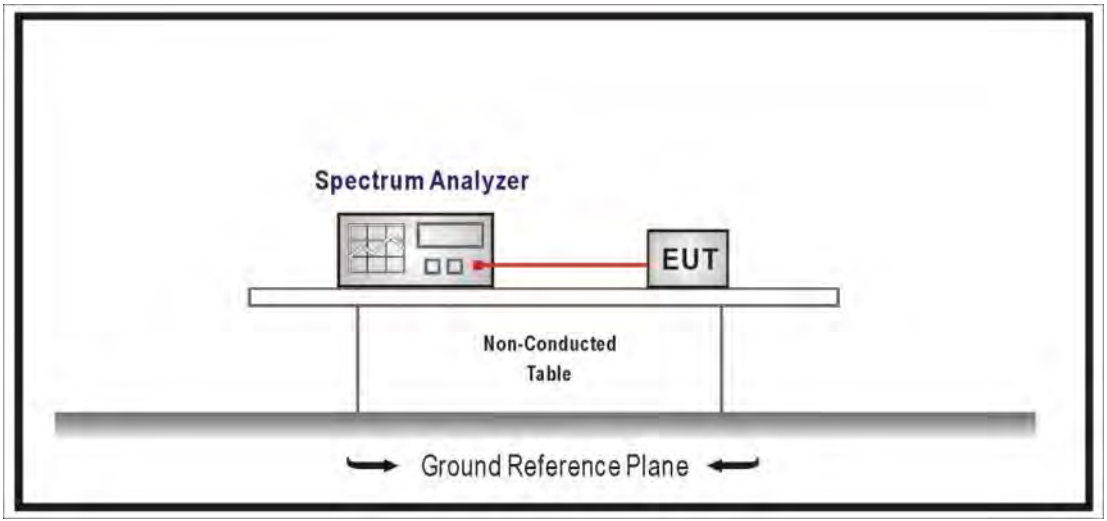
Channel 9 (2452MHz)



Date: 29.APR.2019 12:53:16

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 section 10.2 of KDB558074 D01 V05 for compliance to FCC 47CFR 15.247 requirements. Set 3KHz ≦RBW≦100 kHz, Set VBW≧3xRBW, Sweep time=Auto, Set Peak detector.

9.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2017

9.5. Uncertainty

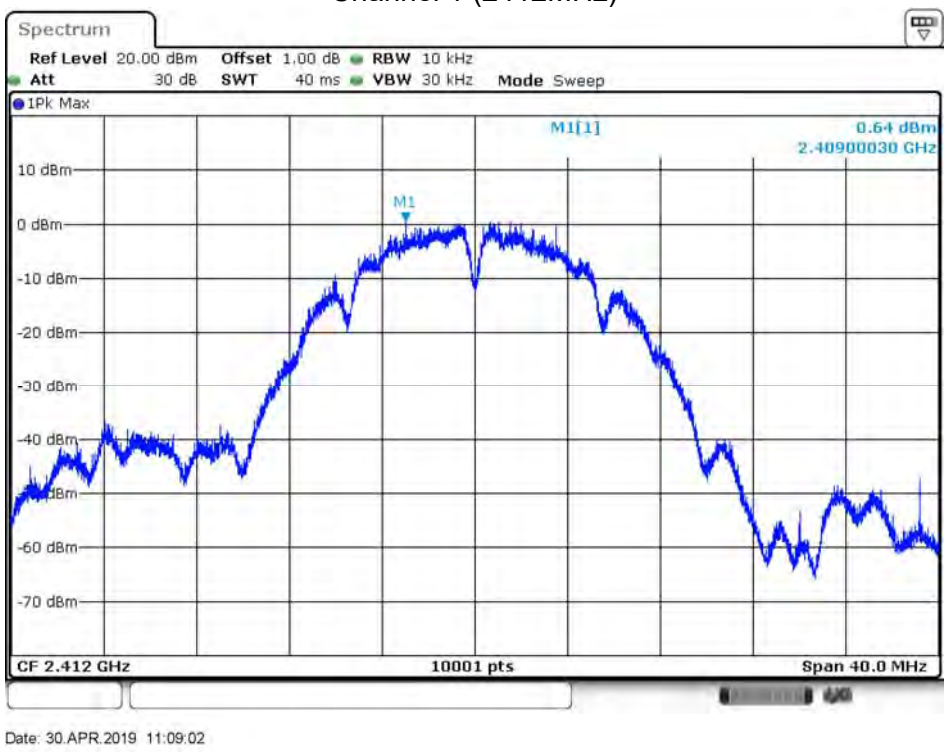
The measurement uncertainty is defined as ±1.27dB.

9.6. Test Result

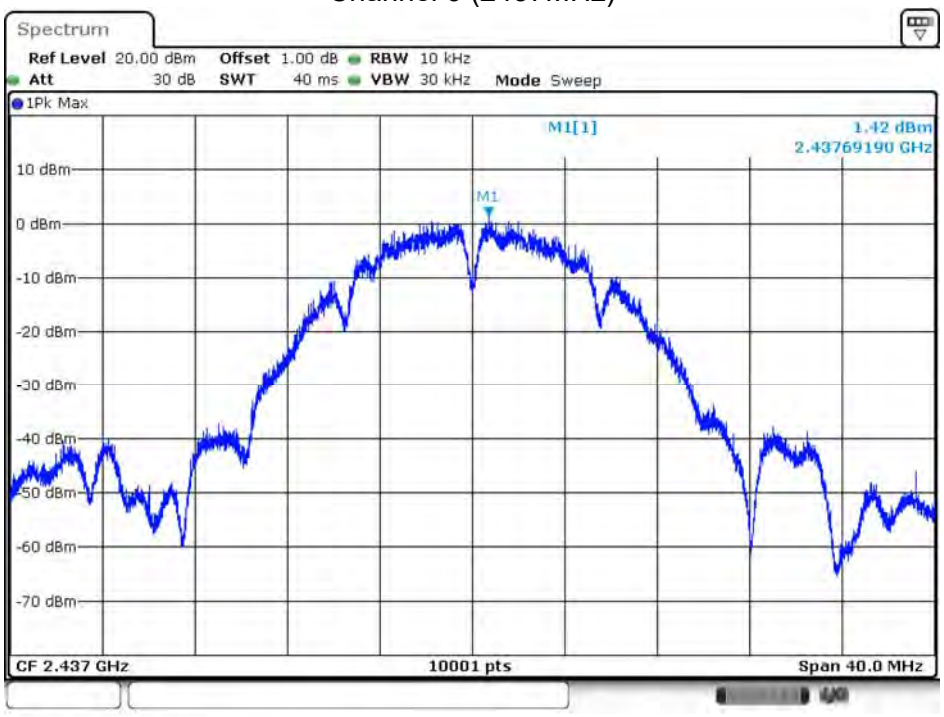
Product	NAIL PRINTER		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/30	Test Site	SR10-H

IEEE 802.11b (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm/10kHz)	Limit (dBm/3kHz)	Result
1	2412	0.64	≦8	Pass
6	2437	1.42	≦8	Pass
11	2462	0.57	≦8	Pass

Channel 1 (2412MHz)



Channel 6 (2437MHz)



Date: 30.APR.2019 11:12:28

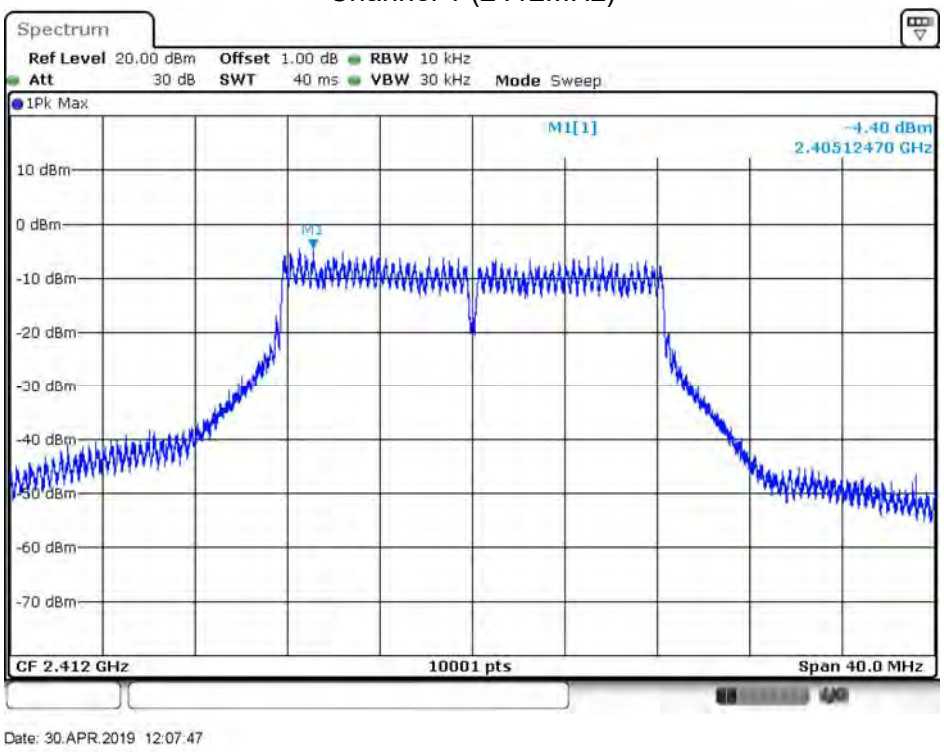
Channel 11 (2462MHz)

Date: 30.APR.2019 11:11:07

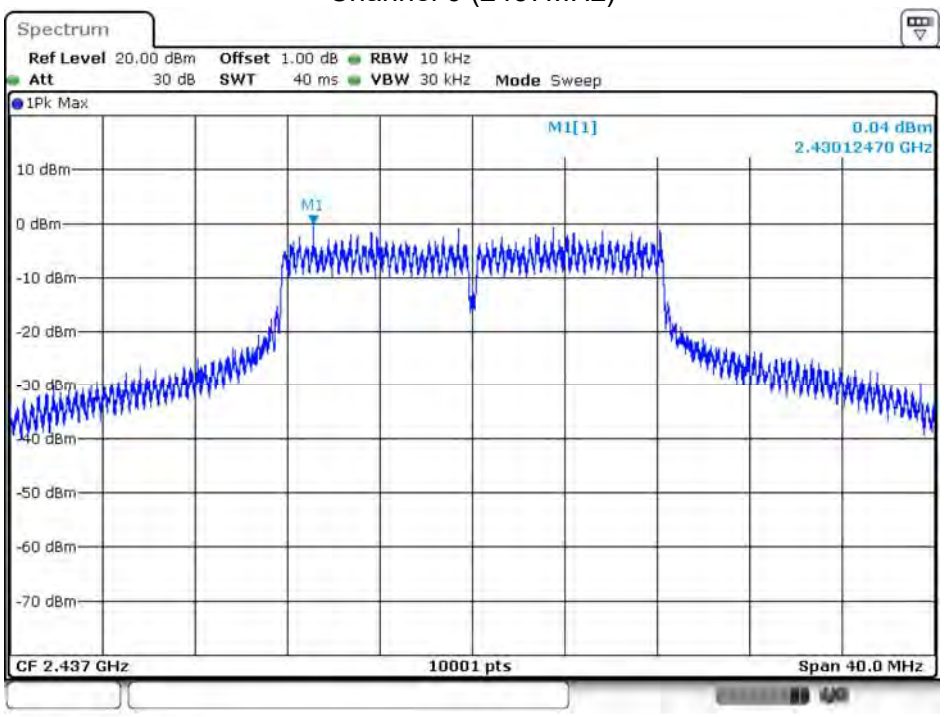
Product	NAIL PRINTER		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/30	Test Site	SR10-H

IEEE 802.11g (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm/10kHz)	Limit (dBm/3kHz)	Result
1	2412	-4.4	≦8	Pass
6	2437	0.04	≦8	Pass
11	2462	-2.03	≦8	Pass

Channel 1 (2412MHz)

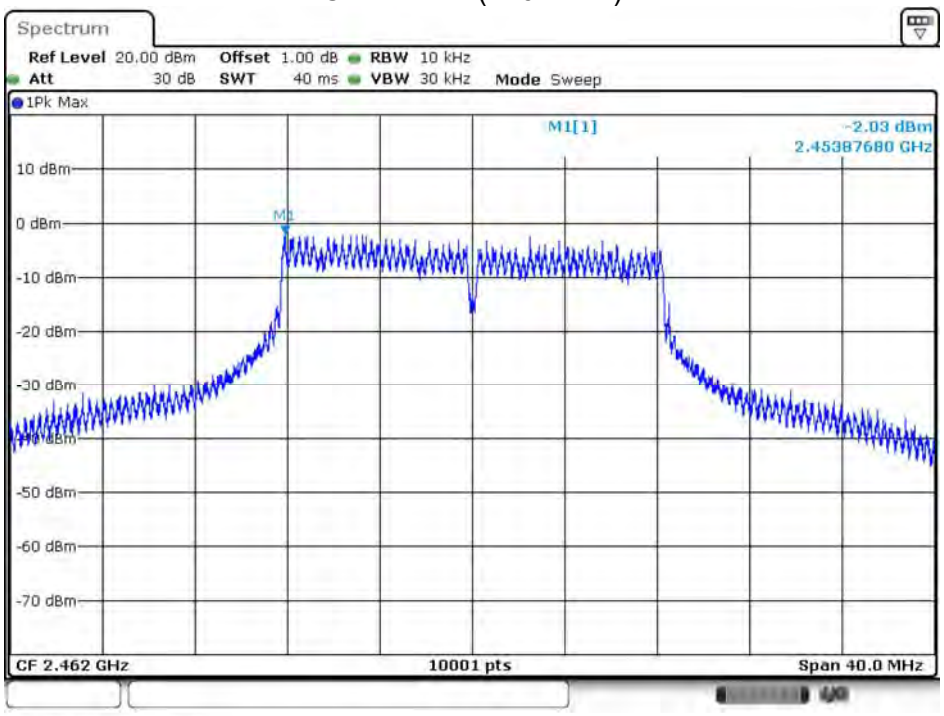


Channel 6 (2437MHz)



Date: 30.APR.2019 11:14:21

Channel 11 (2462MHz)

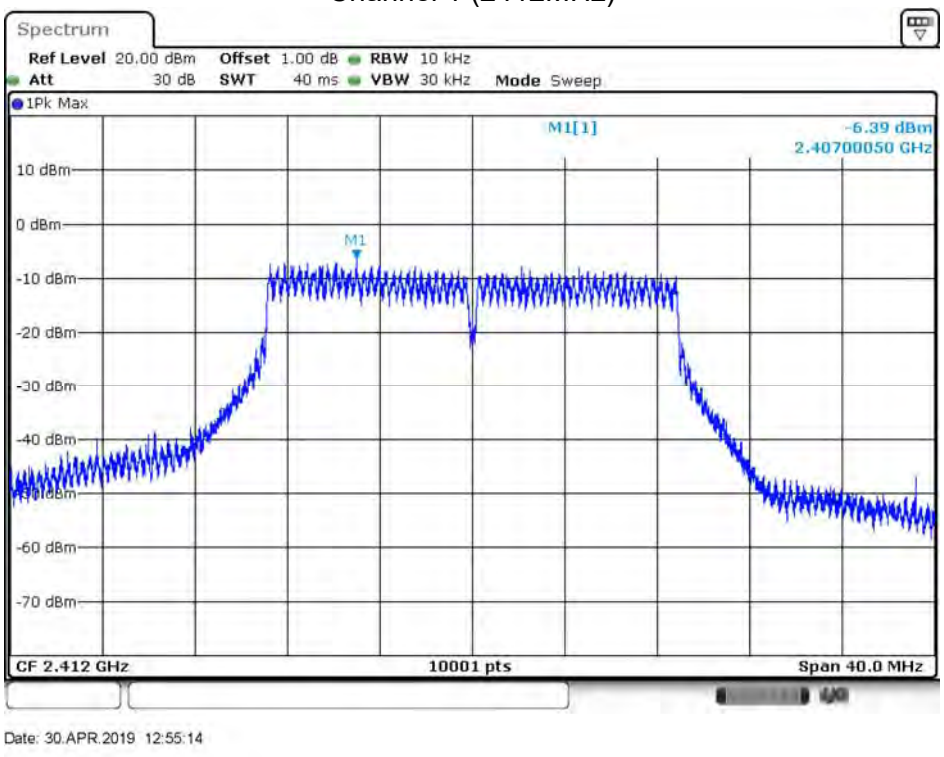


Date: 30.APR.2019 12:49:25

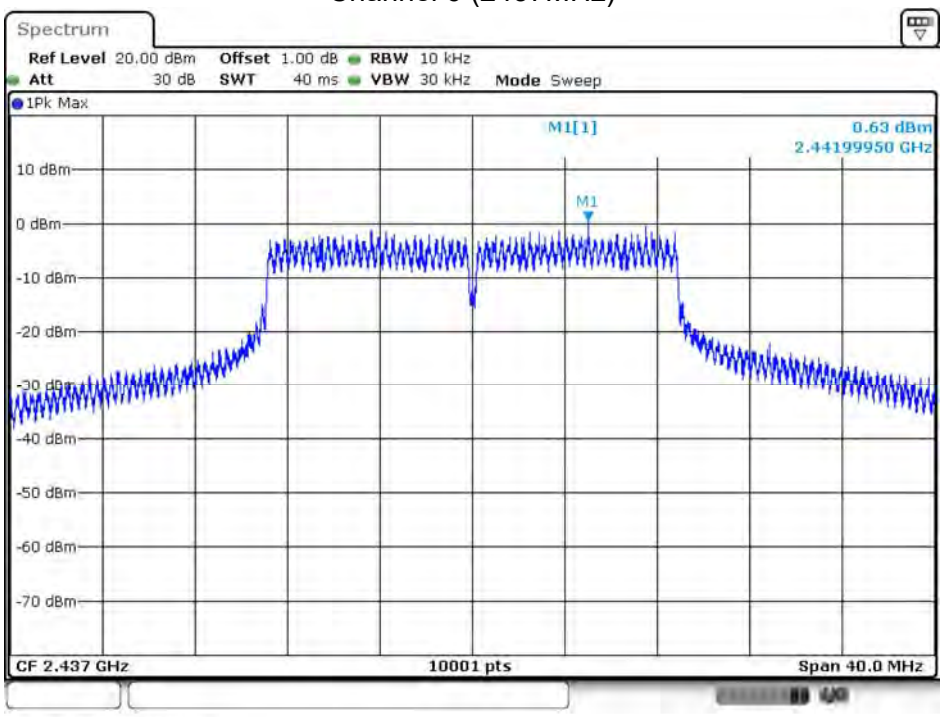
Product	NAIL PRINTER		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/30	Test Site	SR10-H

IEEE 802.11n 20M (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm/10kHz)	Limit (dBm/3kHz)	Result
1	2412	-6.39	≦8	Pass
6	2437	0.63	≦8	Pass
11	2462	-3.12	≦8	Pass

Channel 1 (2412MHz)

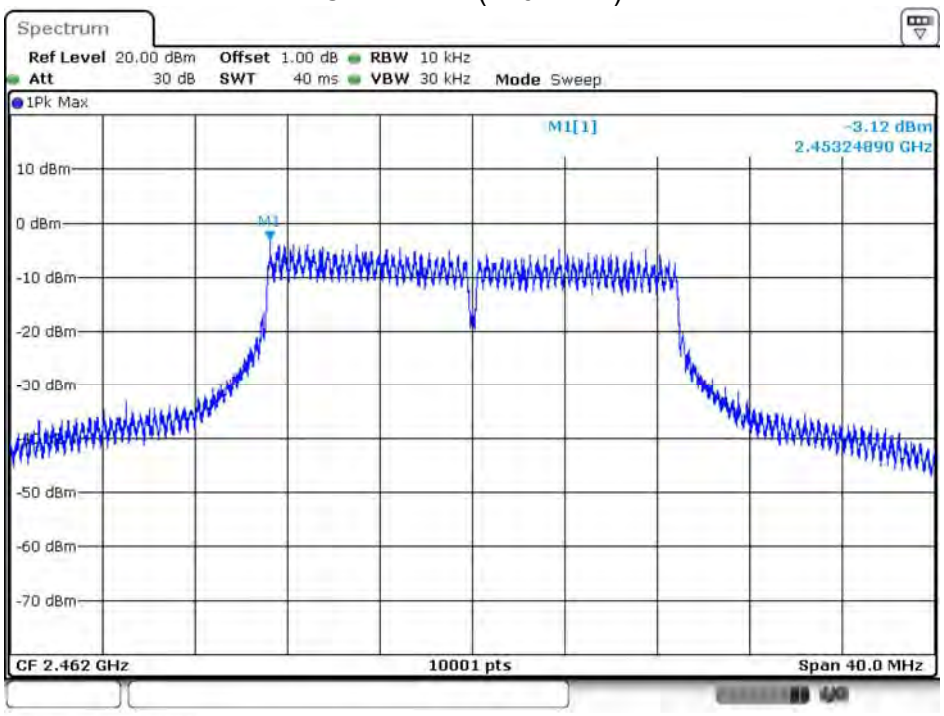


Channel 6 (2437MHz)



Date: 30.APR.2019 12:58:46

Channel 11 (2462MHz)

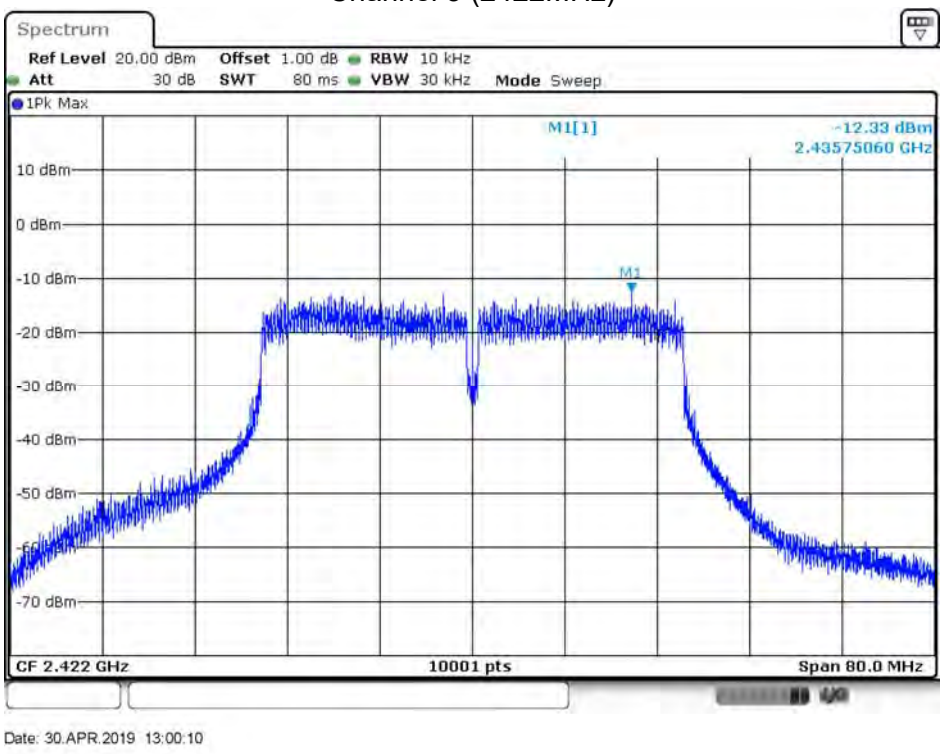


Date: 30.APR.2019 12:53:14

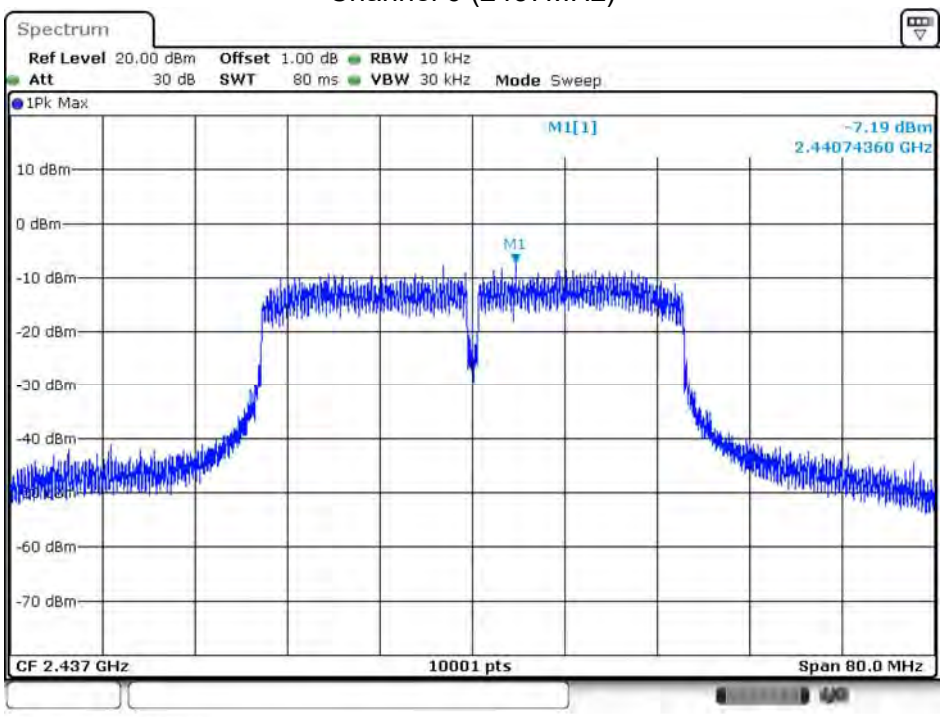
Product	NAIL PRINTER		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/30	Test Site	SR10-H

IEEE 802.11n 40M (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm/10kHz)	Limit (dBm/3kHz)	Result
3	2422	-12.33	≦8	Pass
6	2437	-7.19	≦8	Pass
9	2452	-7.55	≦8	Pass

Channel 3 (2422MHz)

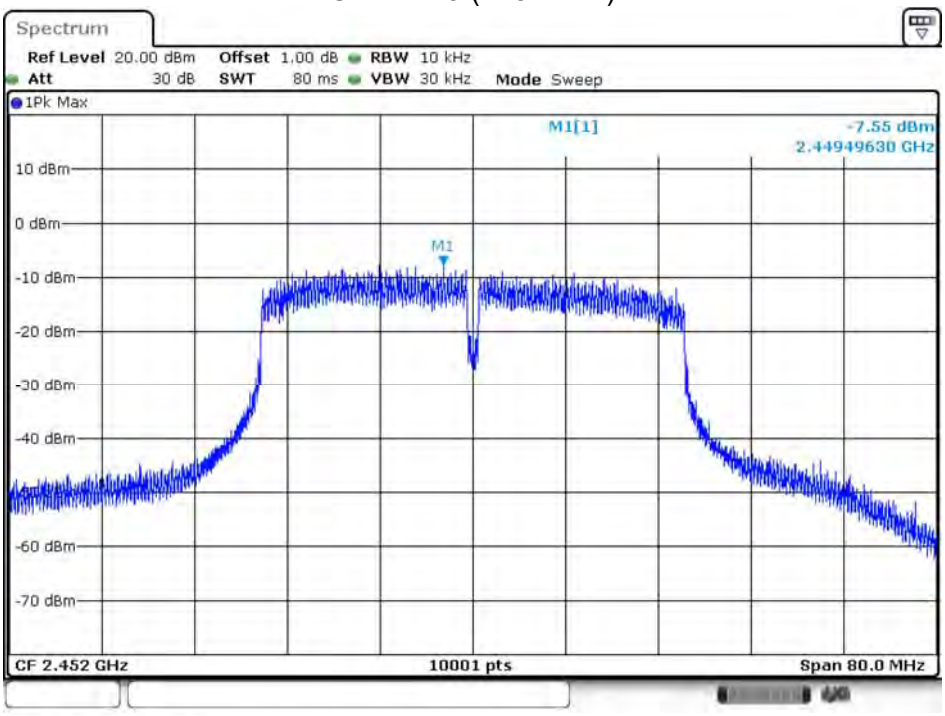


Channel 6 (2437MHz)



Date: 30.APR.2019 13:01:31

Channel 9 (2452MHz)



Date: 30.APR.2019 13:04:36