

# 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-A

Report Version : V1.0



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# Test Report Certification

Issued Date : Jan. 10, 2020

Report No. : 1930412R-RFUSP73V00-A




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.  
Trade Name : Jolimark  
Model No. : NP311D  
FCC ID. : WAGNP311D  
EUT 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  
Laboratory Name : Hsin Chu Laboratory  
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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-A	V1.0	Initial issue of report	Jan. 10, 2020

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## 1. General Information

### 1.1. EUT Description

Product Name	NAIL PRINTER
Trade Name	Jolimark
Model No.	NP311D
Frequency Range/Channel Number	2402~2480MHz / 40 Channels
Type of Modulation	GFSK

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 $\Rightarrow$ 2.5A(60W MAX) Cable out: Shielded, 1m, one ferrite core bonded.
Power Cable	Non-Shielded, 2.5m.

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 00	2402 MHz	Channel 10	2422 MHz	Channel 20	2442 MHz	Channel 30	2462 MHz
Channel 01	2404 MHz	Channel 11	2424 MHz	Channel 21	2444 MHz	Channel 31	2464 MHz
Channel 02	2406 MHz	Channel 12	2426 MHz	Channel 22	2446 MHz	Channel 32	2466 MHz
Channel 03	2408 MHz	Channel 13	2428 MHz	Channel 23	2448 MHz	Channel 33	2468 MHz
Channel 04	2410 MHz	Channel 14	2430 MHz	Channel 24	2450 MHz	Channel 34	2470 MHz
Channel 05	2412 MHz	Channel 15	2432 MHz	Channel 25	2452 MHz	Channel 35	2472 MHz
Channel 06	2414 MHz	Channel 16	2434 MHz	Channel 26	2454 MHz	Channel 36	2474 MHz
Channel 07	2416MHz	Channel 17	2436 MHz	Channel 27	2456 MHz	Channel 37	2476 MHz
Channel 08	2418 MHz	Channel 18	2438 MHz	Channel 28	2458 MHz	Channel 38	2478 MHz
Channel 09	2420 MHz	Channel 19	2440 MHz	Channel 29	2460 MHz	Channel 39	2480 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. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Test Mode	Mode 1: Transmit
-----------	------------------

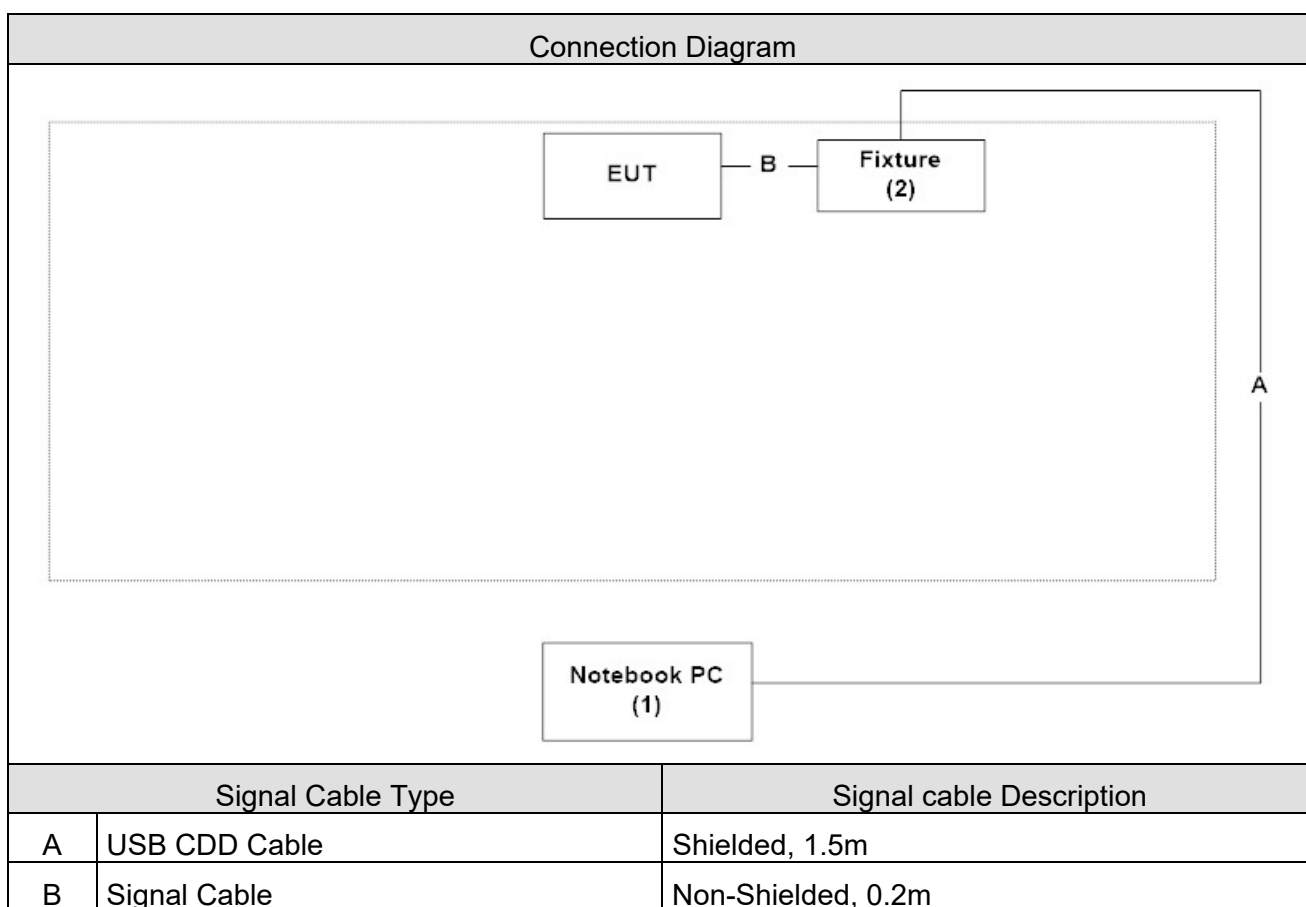
Test Items	Modulation	Channel	Result
Conducted Emission	GFSK	19	Complies
Maximum peak conducted output power	GFSK	00/19/39	Complies
Radiated Emission	GFSK	00/19/39	Complies
RF antenna conducted test	GFSK	00/39	Complies
Radiated Emission Radiated Emission Band Edge	GFSK	00/19/39	Complies
Occupied Bandwidth & DTS Bandwidth	GFSK	00/19/39	Complies
Power Density	GFSK	00/19/39	Complies

### 1.3. Tested System Details

The types for all equipment, 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



### 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	24	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	54	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	24	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	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth & DTS Bandwidth	15 - 35	24	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	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	

Note: Test site information refers to Laboratory Information.

**USA : FCC, Registration Number: TW3024**

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](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 &amp; 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

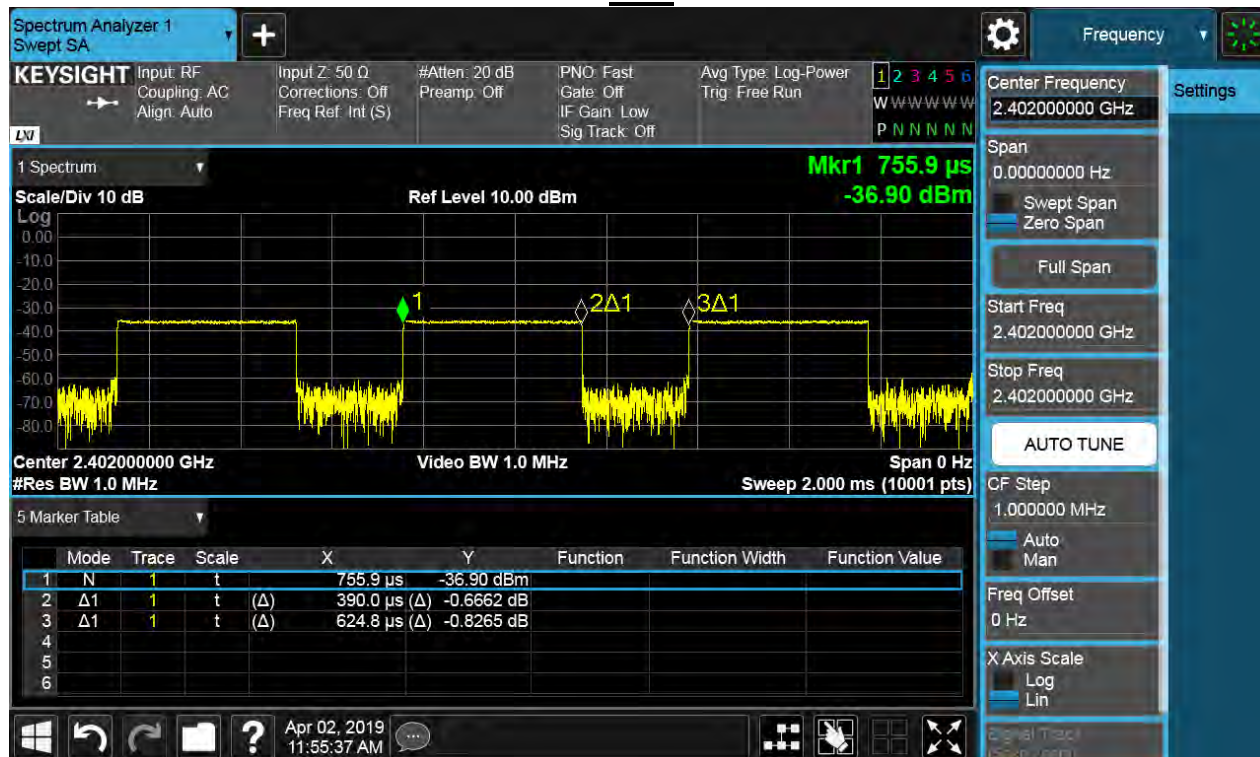
Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S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

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

## 1.8. Duty cycle

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
BLE	0.390	0.624	62.50%	4.08	2.564

### BLE

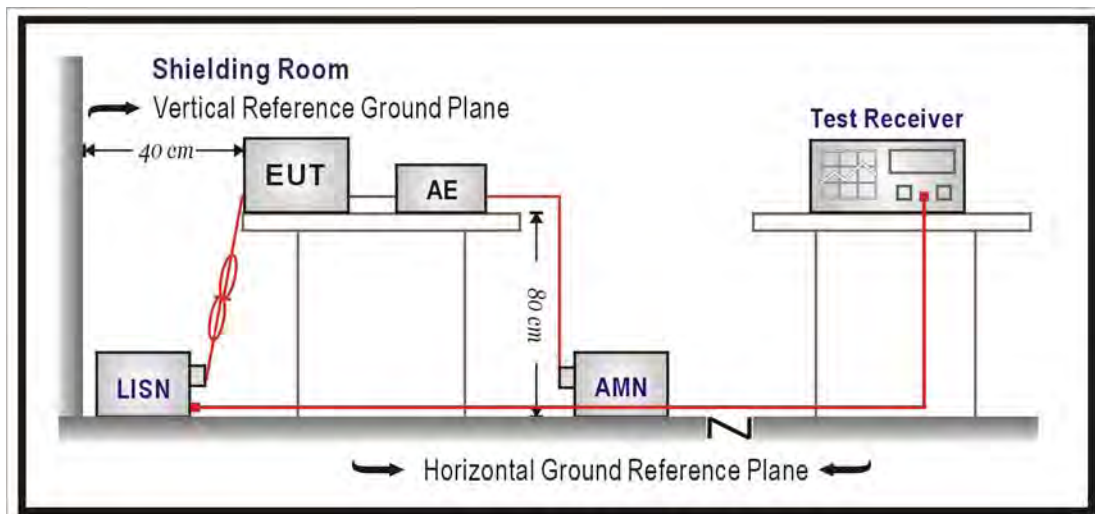


### 1.9. Uncertainty

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

### **2.3. Test Procedure**

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

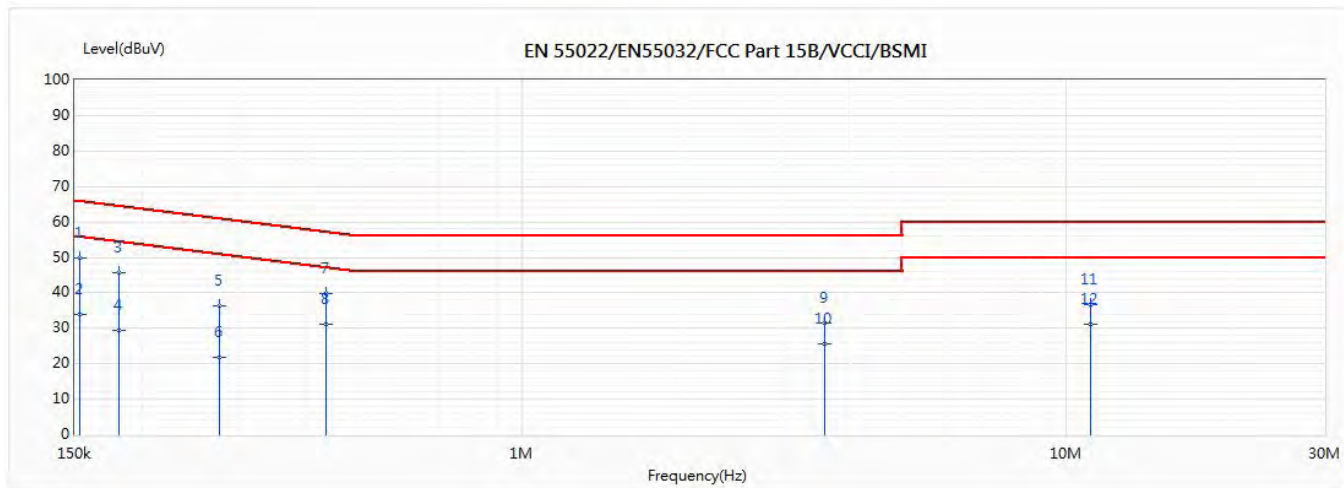
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

### **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 :			



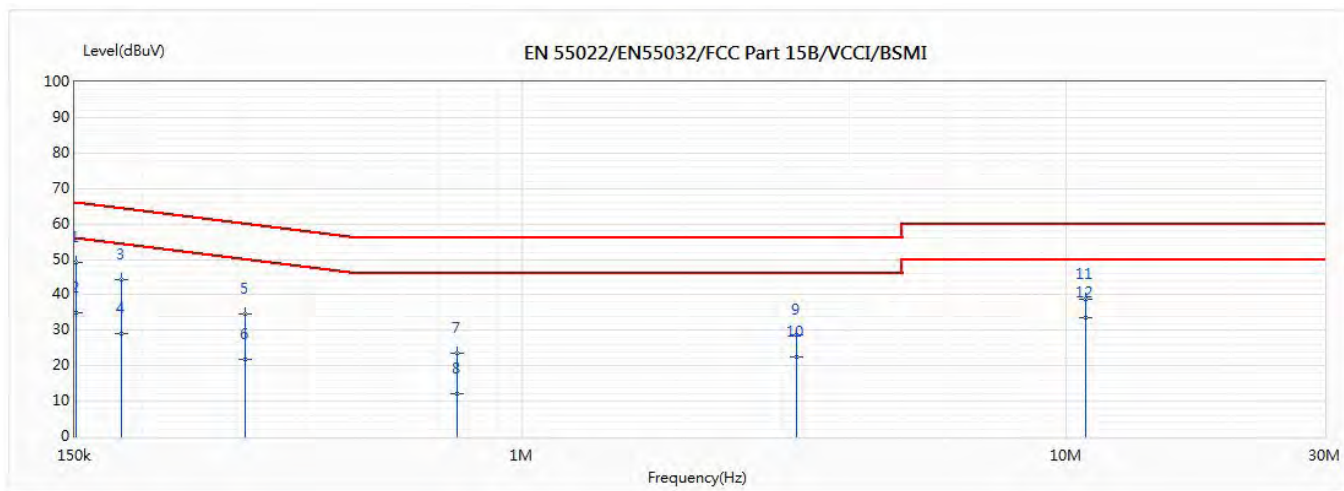
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.153	49.90	65.91	-16.01	40.13	9.77	QP
2	0.153	34.08	55.91	-21.84	24.31	9.77	AV
3	0.181	45.75	65.13	-19.38	35.98	9.77	QP
4	0.181	29.45	55.13	-25.68	19.68	9.77	AV
5	0.277	36.36	62.39	-26.03	26.59	9.77	QP
6	0.277	21.81	52.39	-30.58	12.04	9.77	AV
7	0.436	39.78	57.83	-18.06	30.01	9.77	QP
8	0.436	31.01	47.83	-16.83	21.23	9.77	AV
9	3.607	31.65	56.00	-24.35	21.79	9.86	QP
10	3.607	25.61	46.00	-20.39	15.75	9.86	AV
11	11.133	36.84	60.00	-23.16	26.56	10.28	QP
12	11.133	31.10	50.00	-18.90	20.82	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 :			



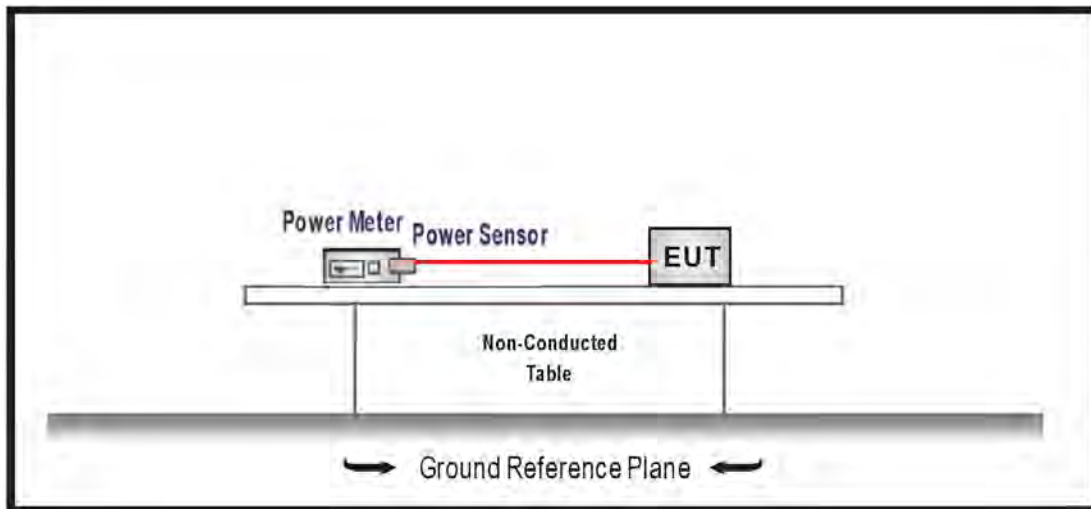
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.151	48.98	65.99	-17.01	39.21	9.77	QP
2	0.151	34.91	55.99	-21.08	25.14	9.77	AV
3	0.183	44.36	65.05	-20.69	34.59	9.77	QP
4	0.183	29.04	55.05	-26.01	19.27	9.77	AV
5	0.309	34.43	61.47	-27.04	24.66	9.77	QP
6	0.309	21.70	51.47	-29.77	11.93	9.77	AV
7	0.757	23.67	56.00	-32.33	13.88	9.78	QP
8	0.757	12.01	46.00	-33.99	2.23	9.78	AV
9	3.204	28.78	56.00	-27.22	18.94	9.84	QP
10	3.204	22.41	46.00	-23.59	12.57	9.84	AV
11	10.895	38.81	60.00	-21.19	28.53	10.28	QP
*12	10.895	33.43	50.00	-16.57	23.15	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 setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB558074 D01V05 for compliance 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

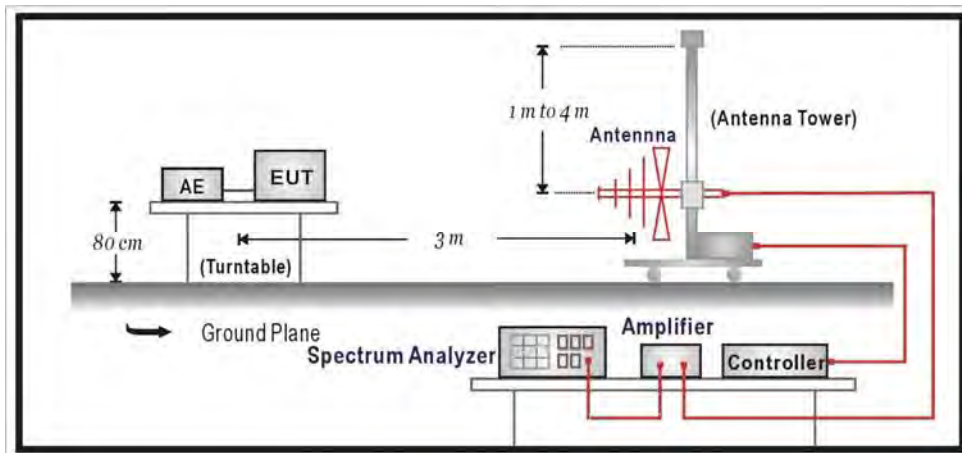
Product	NAIL PRINTER		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/25	Test Site	SR10-H

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
00	2402	0.510	$\leq 30$
19	2440	1.460	$\leq 30$
39	2480	-0.030	$\leq 30$

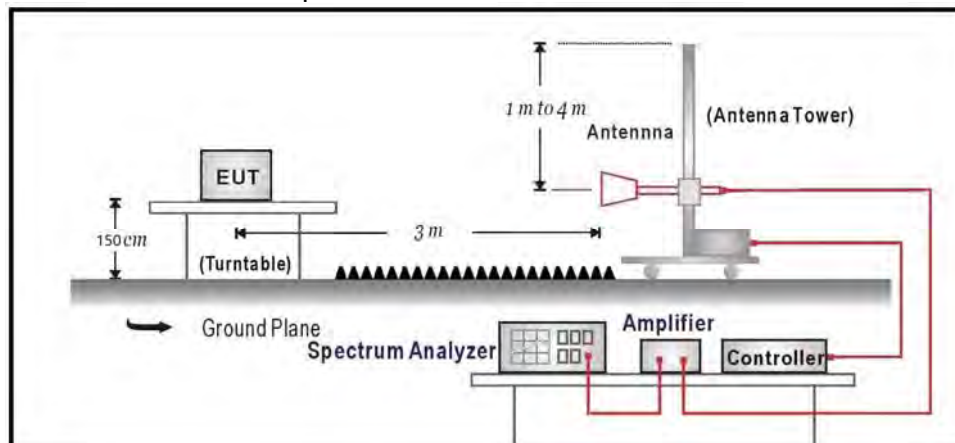
## 4. Radiated Emission

### 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:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
  2. In the Above Table, the tighter limit applies at the Radiated Emission Band Edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

### **4.3. Test Procedure**

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 D01V05 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. 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 from 9kHz (include The the lowest oscillator frequency generated within the device up to the 10th harmonic) 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.

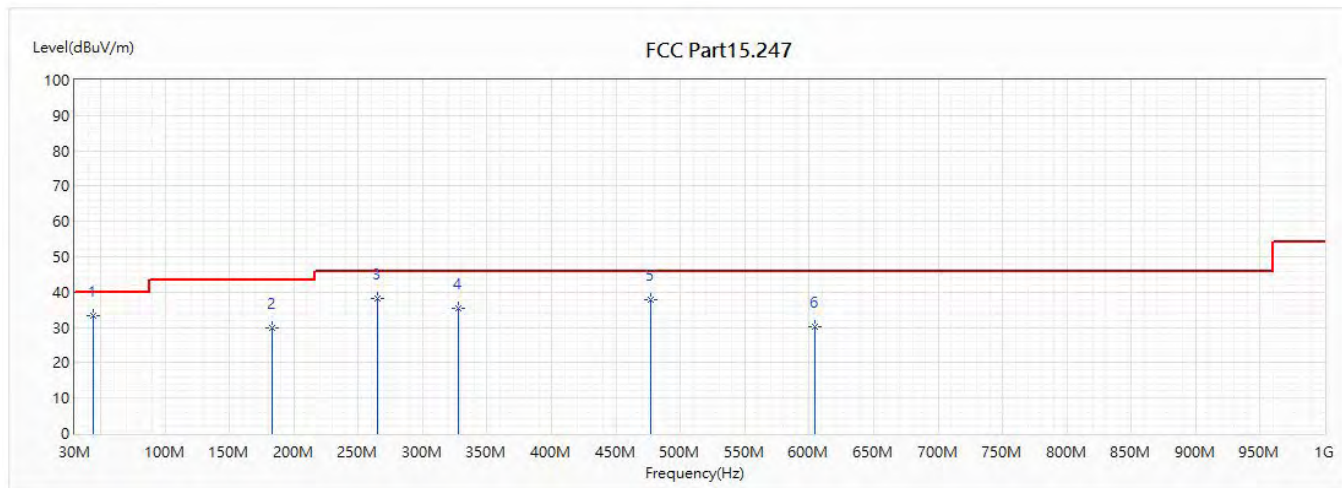
### **4.4. Test Specification**

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 :	2019/6/26
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.15.1_BLE_2440MHz		

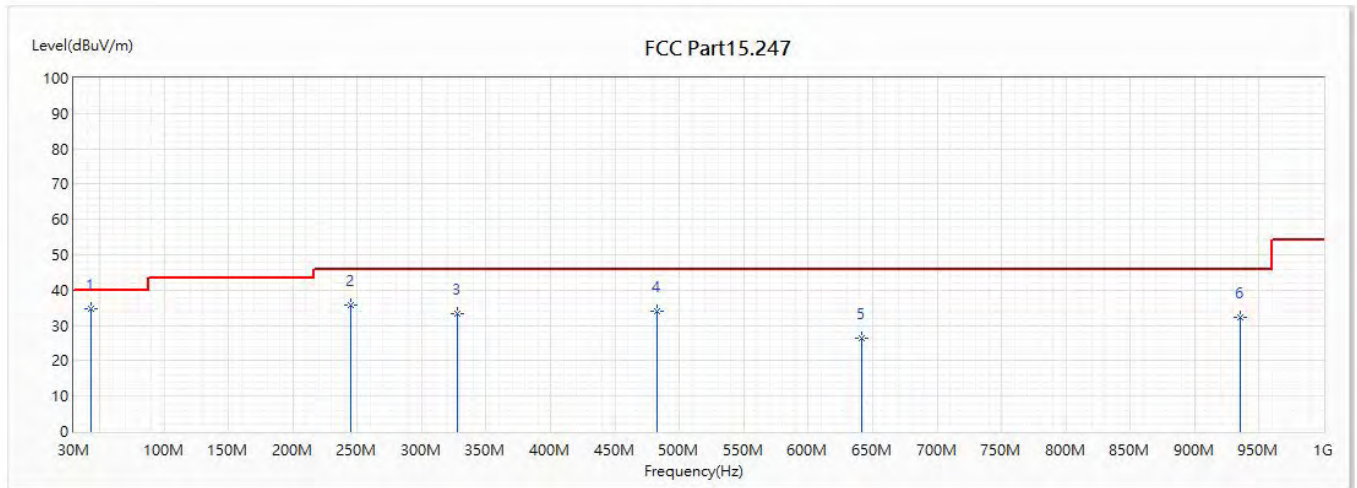


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	44.186	33.29	40.00	-6.71	53.02	-19.73	QP
2	183.503	30.00	43.50	-13.50	53.31	-23.31	QP
3	265.225	38.34	46.00	-7.66	59.10	-20.76	QP
4	327.548	35.26	46.00	-10.74	54.54	-19.28	QP
5	477.17	37.77	46.00	-8.23	53.50	-15.73	QP
6	604.604	30.35	46.00	-15.65	44.83	-14.48	QP

#### Note:

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

Site :	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 :	802.15.1_BLE_2440MHz		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	42.974	34.76	40.00	-5.24	53.42	-18.66	QP
2	244.613	35.73	46.00	-10.27	57.08	-21.35	QP
3	328.033	33.20	46.00	-12.80	52.47	-19.27	QP
4	482.748	34.17	46.00	-11.83	49.82	-15.65	QP
5	641.828	26.56	46.00	-19.44	40.79	-14.23	QP
6	935.131	32.45	46.00	-13.55	43.77	-11.32	QP

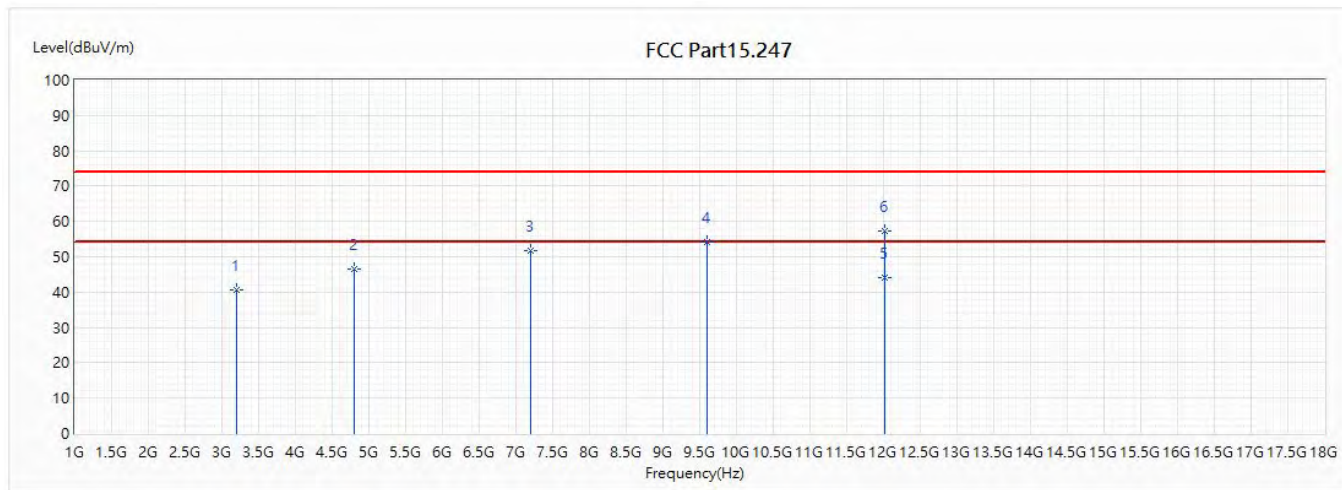
**Note:**

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



**Harmonic & 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 :	802.15.1_BLE_2402MHz		

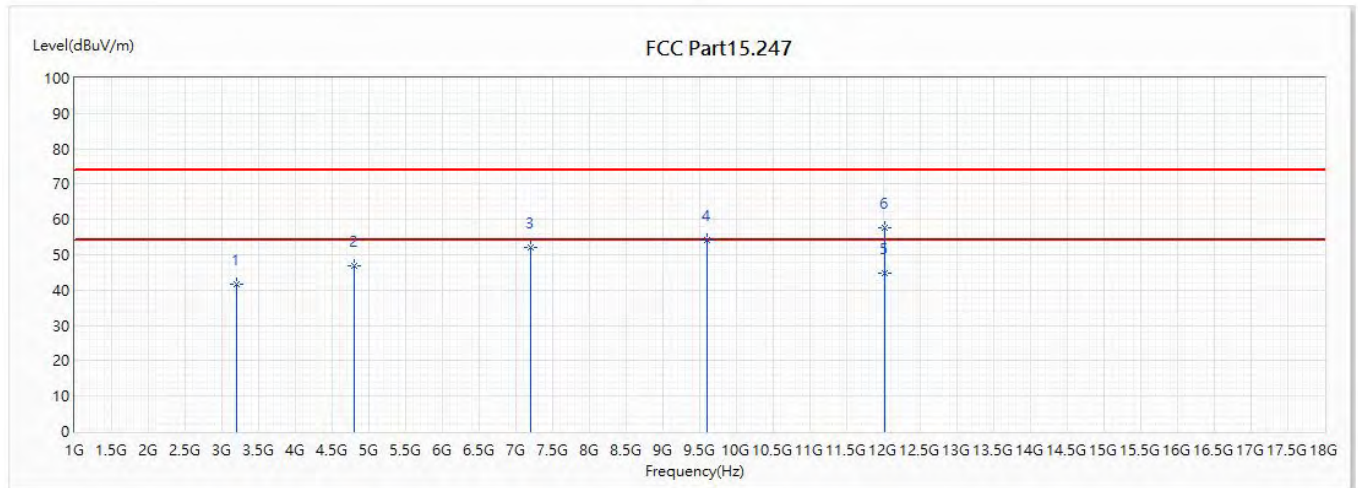


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3202	40.74	74.00	-33.26	36.66	4.08	PK
2	4804	46.38	74.00	-27.62	36.54	9.84	PK
3	7206	51.69	74.00	-22.31	35.14	16.55	PK
4	9608	54.02	74.00	-19.98	33.29	20.73	PK
* 5	12010	44.11	54.00	-9.89	20.19	23.92	AV
6	12010	57.28	74.00	-16.72	33.36	23.92	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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are 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 :	802.15.1_BLE_2402MHz		

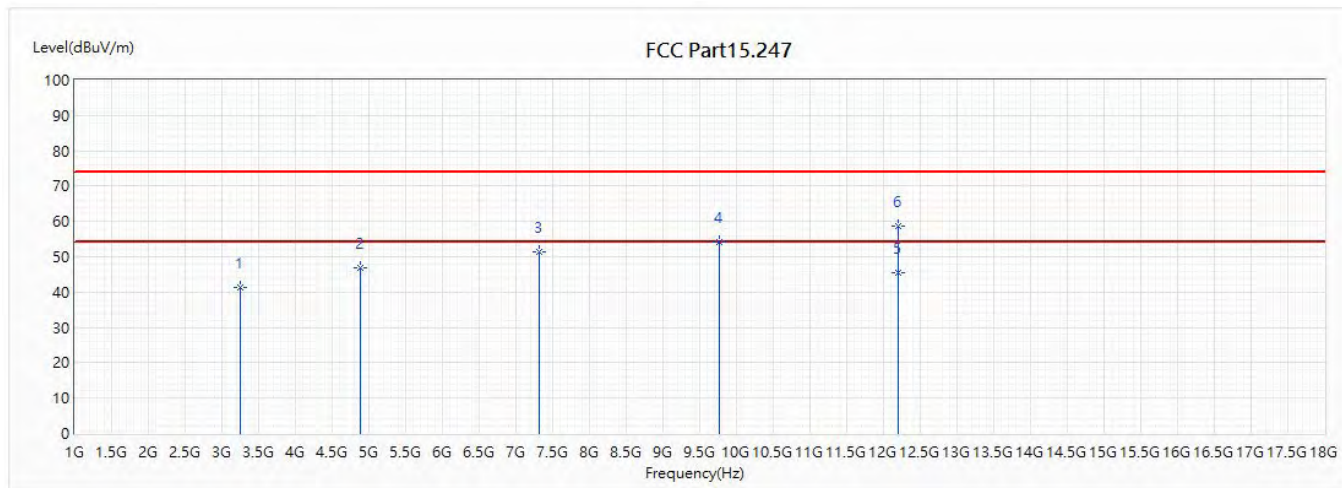


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3202	41.52	74.00	-32.48	37.44	4.08	PK
2	4804	46.80	74.00	-27.20	36.96	9.84	PK
3	7206	52.25	74.00	-21.75	35.70	16.55	PK
4	9608	54.21	74.00	-19.79	33.48	20.73	PK
* 5	12010	44.68	54.00	-9.32	20.76	23.92	AV
6	12010	57.79	74.00	-16.21	33.87	23.92	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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are less than 20dBm form the limit, 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 :	802.15.1_BLE_2440MHz		

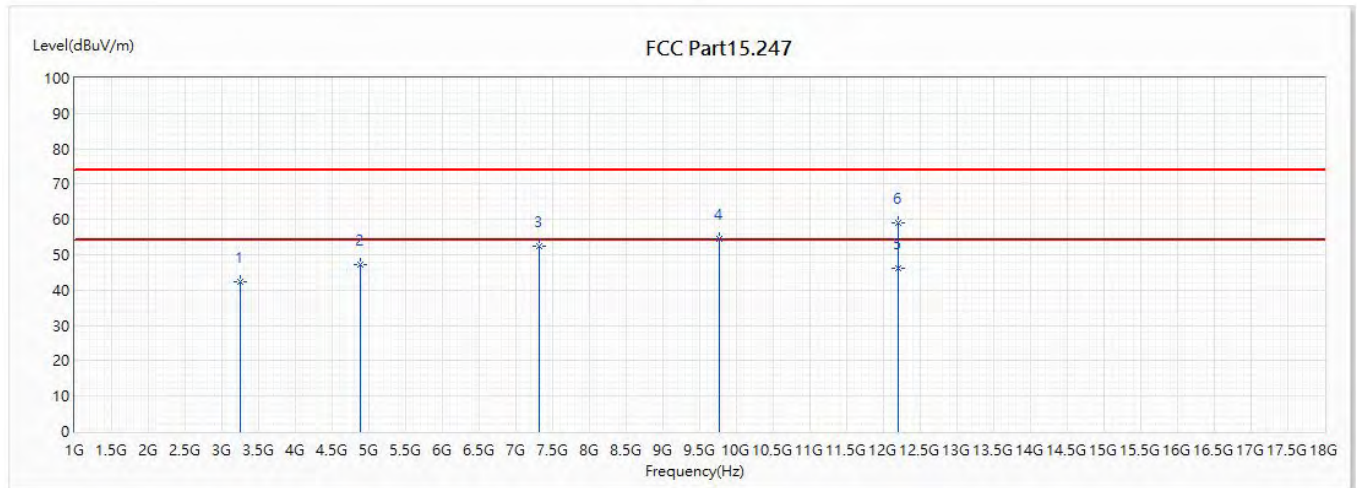


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3253	41.22	74.00	-32.78	36.96	4.26	PK
2	4880	46.76	74.00	-27.24	36.44	10.32	PK
3	7320	51.42	74.00	-22.58	34.83	16.59	PK
4	9760	54.06	74.00	-19.94	33.55	20.51	PK
* 5	12200	45.49	54.00	-8.51	20.70	24.79	AV
6	12200	58.56	74.00	-15.44	33.77	24.79	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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are 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 :	802.15.1_BLE_2440MHz		

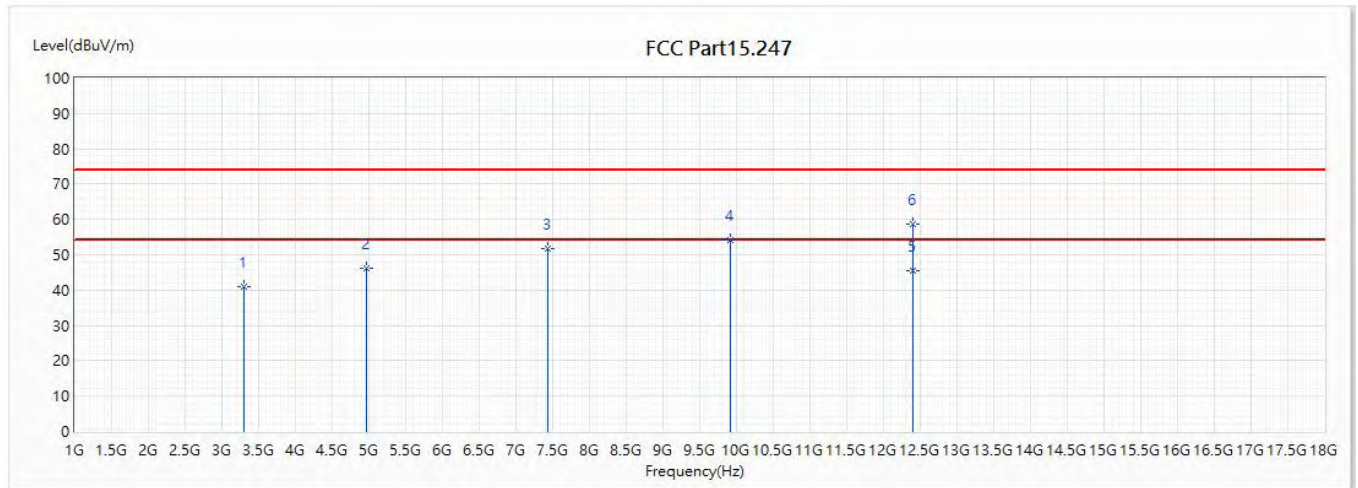


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3253	42.37	74.00	-31.63	38.11	4.26	PK
2	4880	47.21	74.00	-26.79	36.89	10.32	PK
3	7320	52.43	74.00	-21.57	35.84	16.59	PK
4	9760	54.38	74.00	-19.62	33.87	20.51	PK
* 5	12200	46.29	54.00	-7.71	21.50	24.79	AV
6	12200	58.92	74.00	-15.08	34.13	24.79	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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are 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 :	802.15.1_BLE_2480MHz		



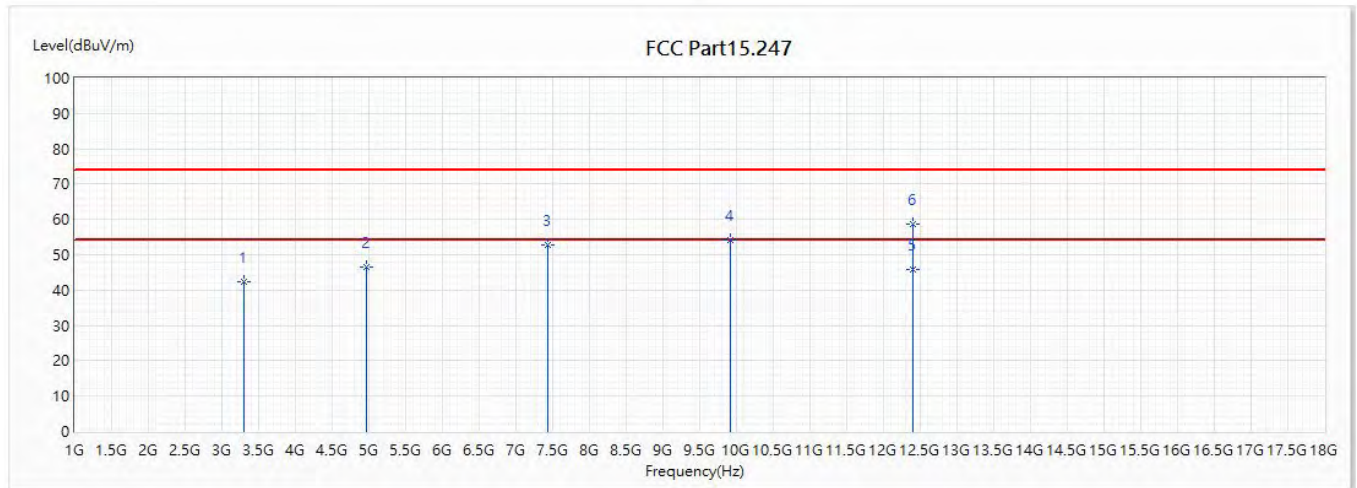
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3306	41.09	74.00	-32.91	36.58	4.51	PK
2	4960	46.23	74.00	-27.77	35.69	10.54	PK
3	7440	51.83	74.00	-22.17	35.04	16.79	PK
4	9920	54.17	74.00	-19.83	33.60	20.57	PK
* 5	12400	45.33	54.00	-8.67	20.88	24.45	AV
6	12400	58.80	74.00	-15.20	34.35	24.45	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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are 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 :	802.15.1_BLE_2480MHz		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3306	42.46	74.00	-31.54	37.95	4.51	PK
2	4960	46.66	74.00	-27.34	36.12	10.54	PK
3	7440	52.72	74.00	-21.28	35.93	16.79	PK
4	9920	54.29	74.00	-19.71	33.72	20.57	PK
* 5	12400	45.81	54.00	-8.19	21.36	24.45	AV
6	12400	58.70	74.00	-15.30	34.25	24.45	PK

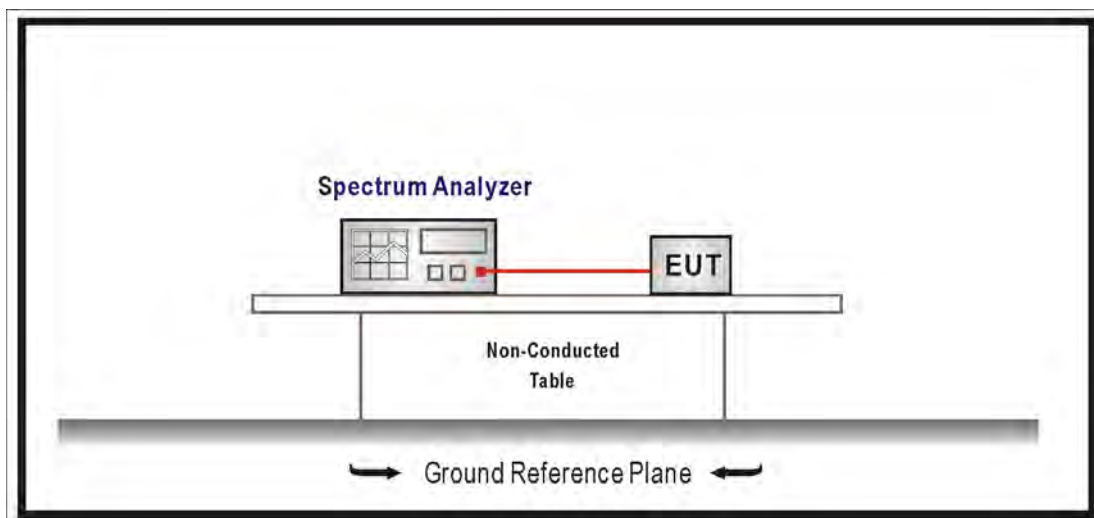
**Note:**

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are less than 20dBm form the limt, so as not reported.

## 5. RF antenna conducted test

### 5.1. Test Setup

RF 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 Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 D01V05 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

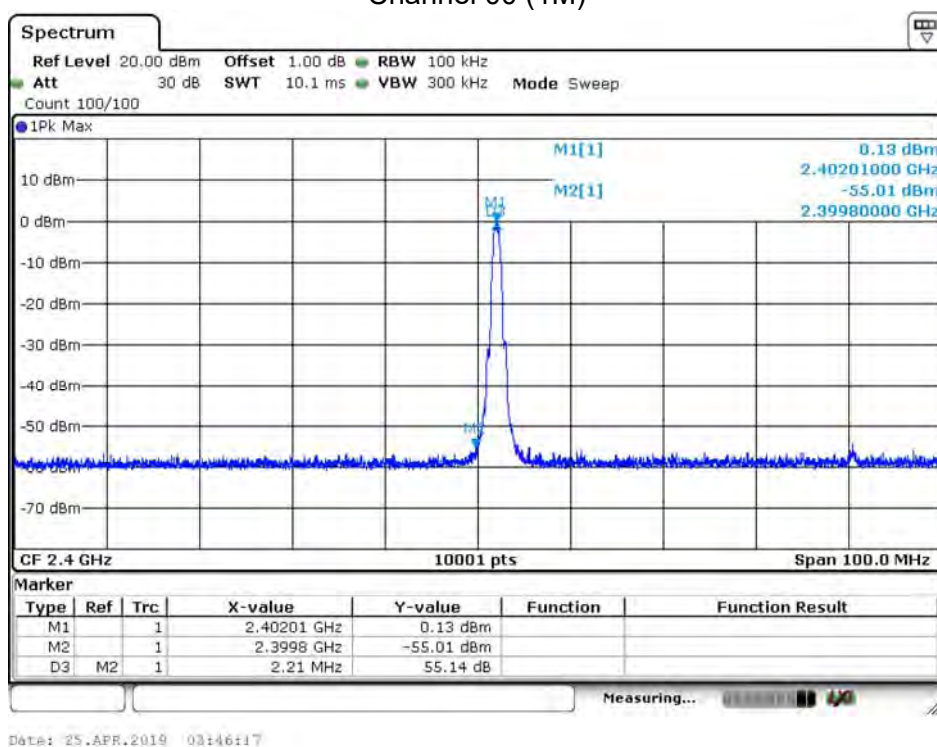
## 5.5. Test Result

Product	NAIL PRINTER		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/25	Test Site	SR10-H

### GFSK

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)
00	2402	49.430	$\geq 20$
19	2440	50.880	$\geq 20$
39	2480	48.440	$\geq 20$

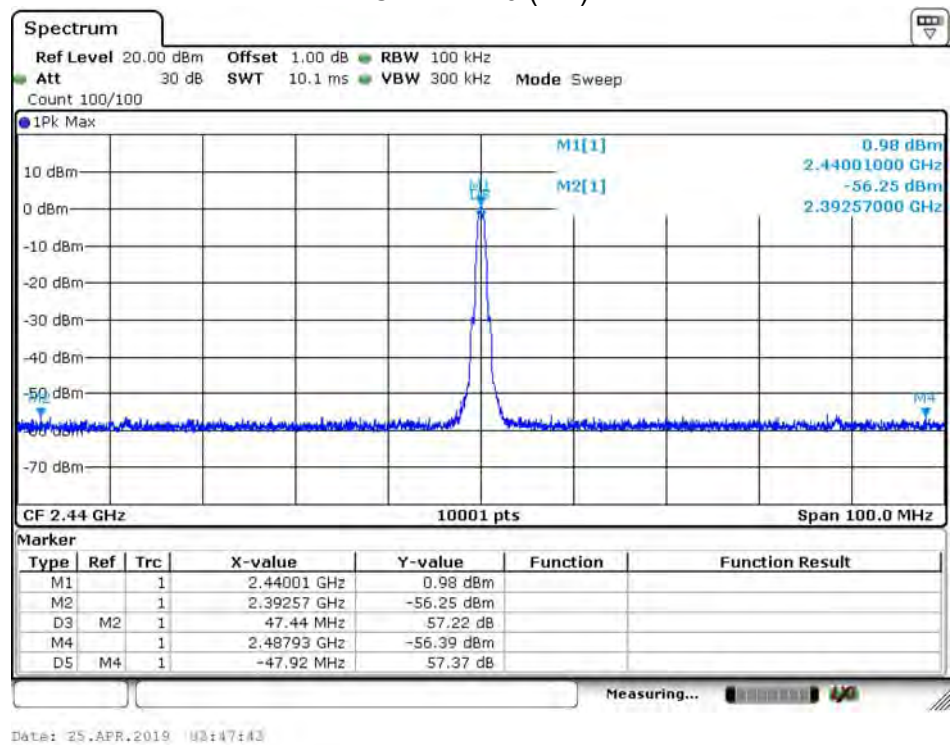
Channel 00 (1M)



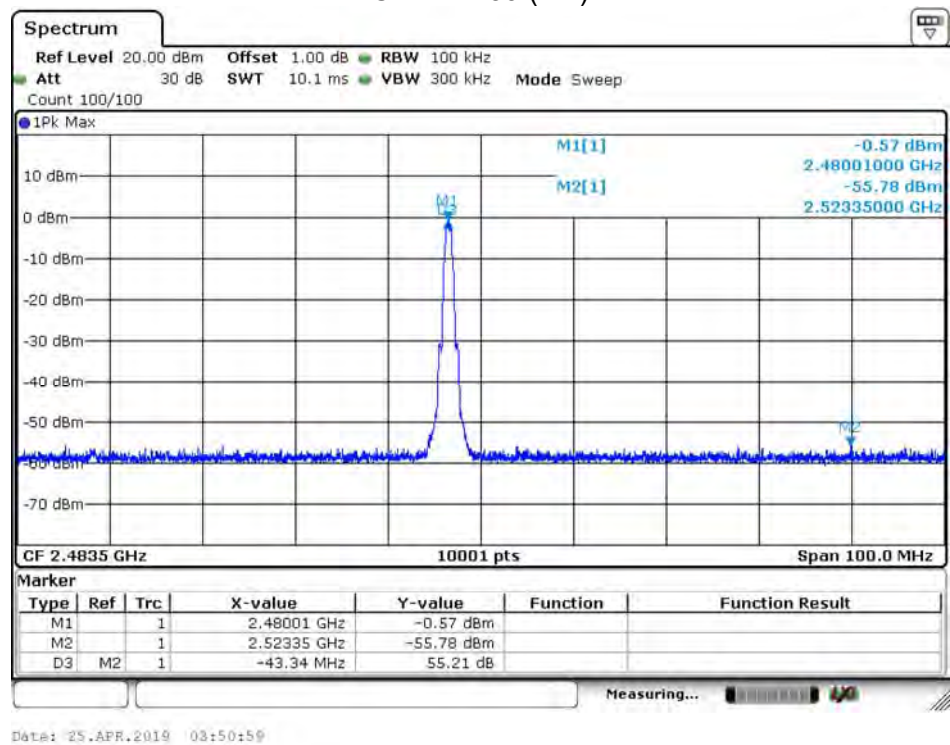
Date: 25.APR.2019 03:46:17



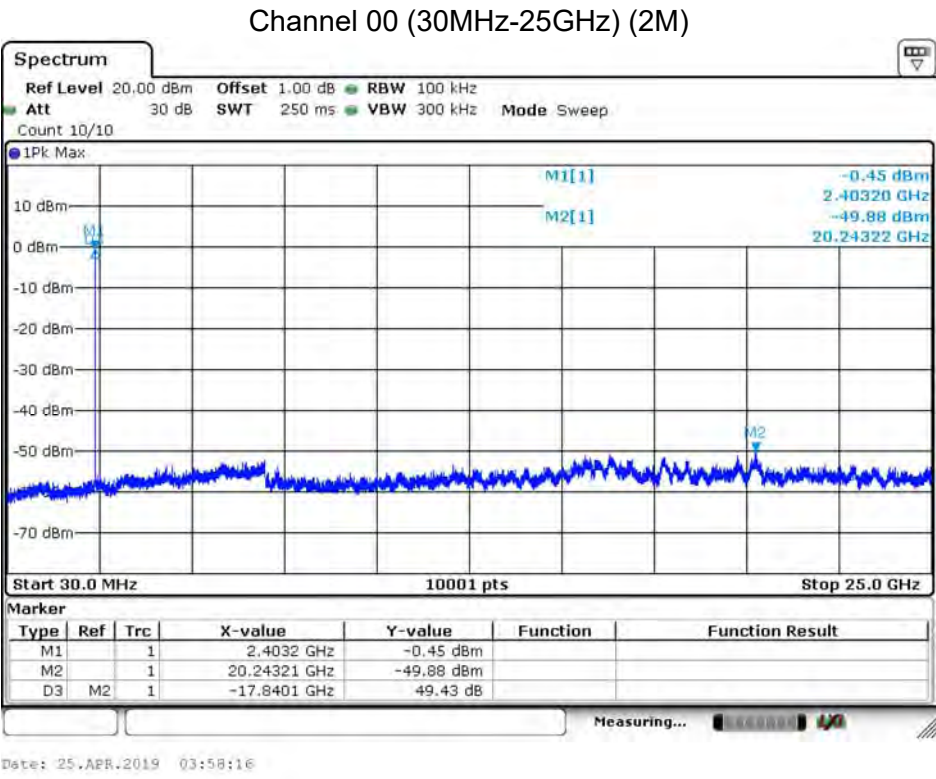
Channel 19 (1M)



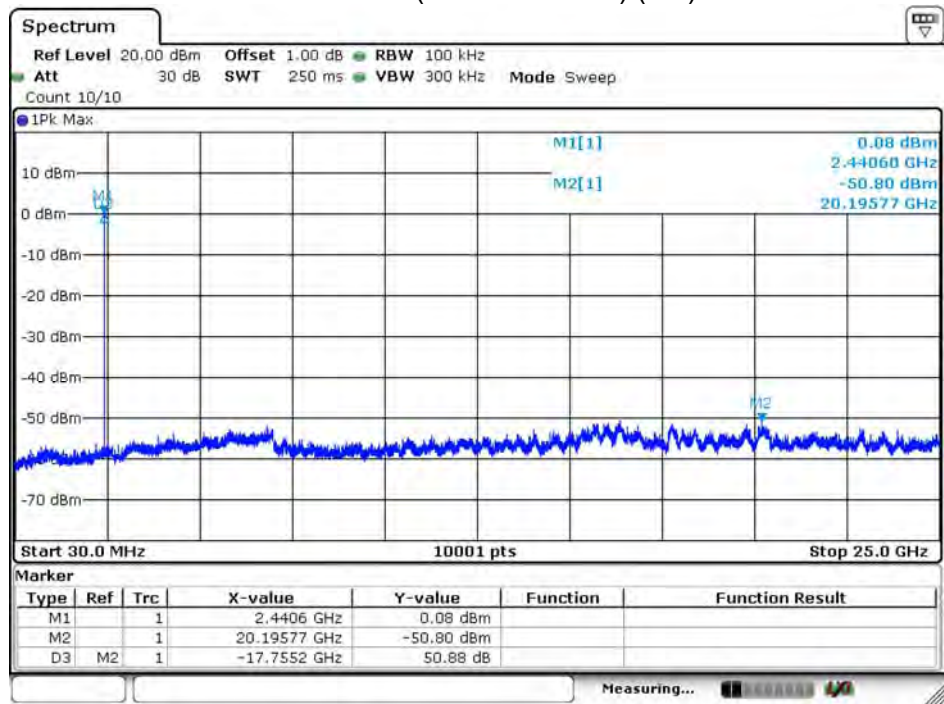
Channel 39 (1M)



Product	NAIL PRINTER		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/25	Test Site	SR10-H

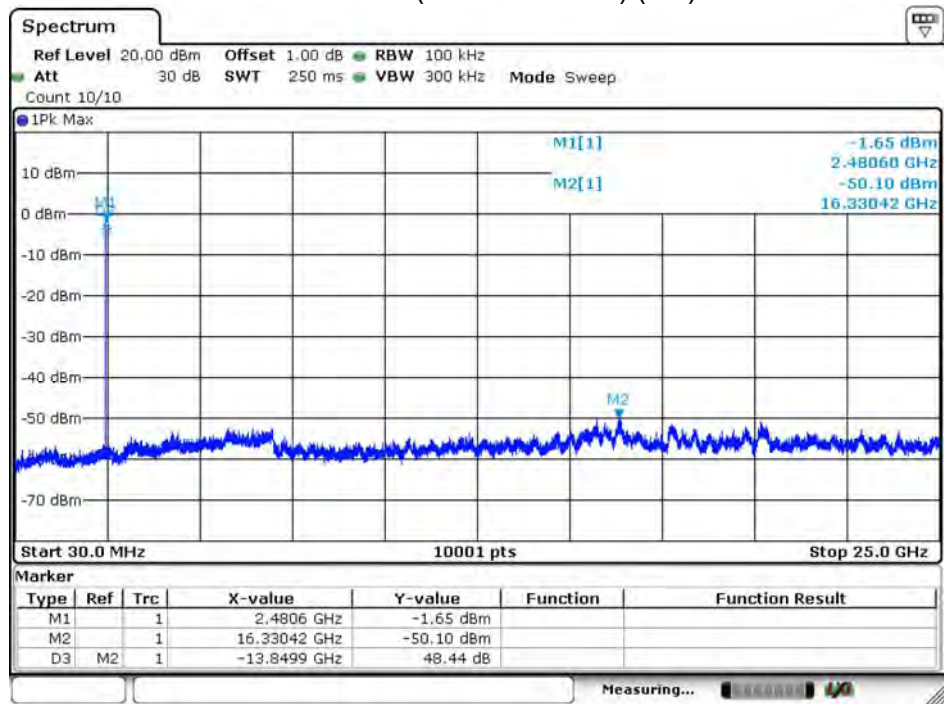


Channel 19 (30MHz-25GHz) (2M)



Date: 25.APR.2019 03:57:14

Channel 39 (30MHz-25GHz) (2M)

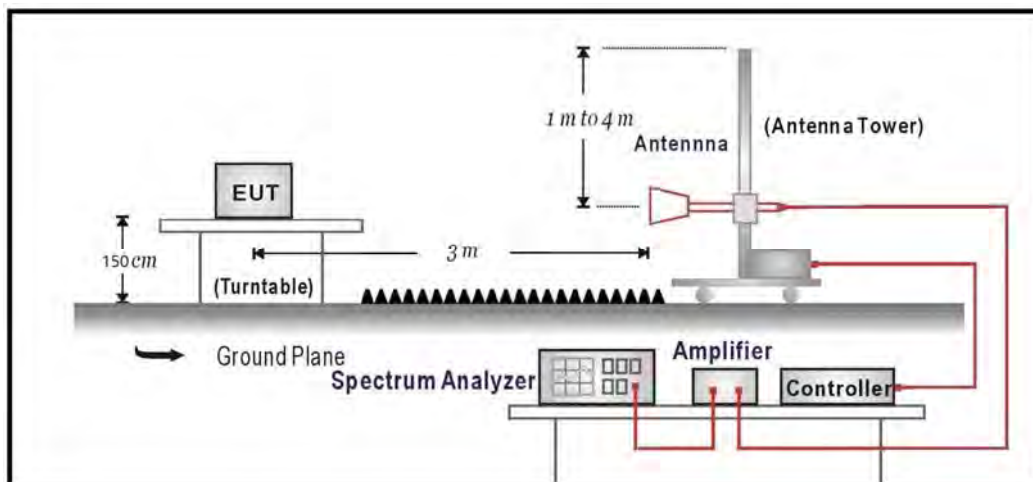


Date: 25.APR.2019 03:55:26

## 6. Radiated Emission Band Edge

### 6.1. Test Setup

RF Radiated Measurement:



### 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 D01V05 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 0.8 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.

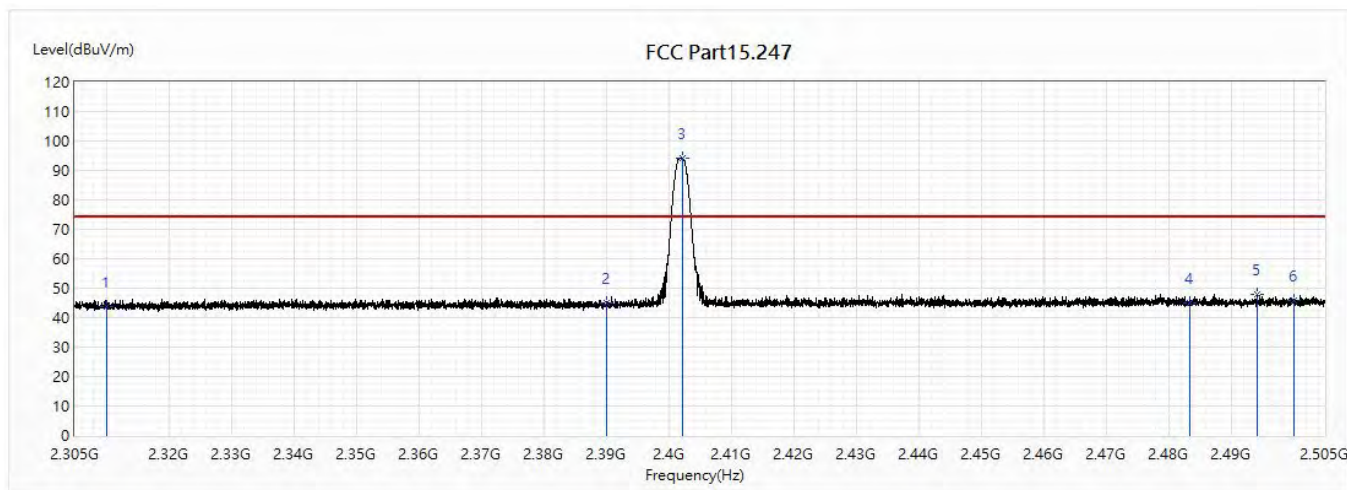
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

### 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 :	2019/4/26
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit		
Note :	802.15.1_BLE_2402MHz		



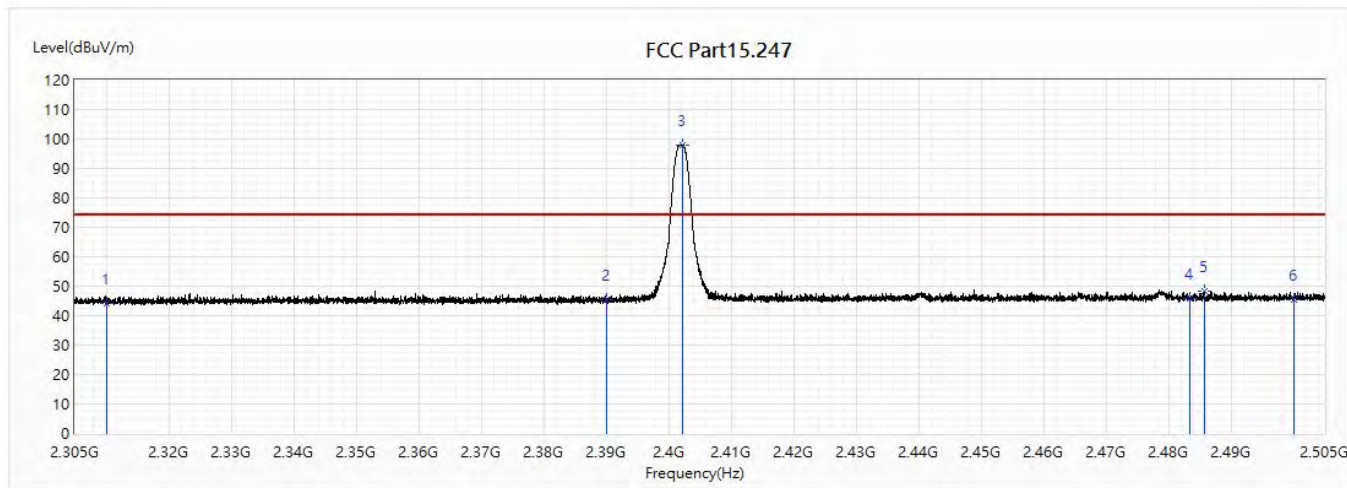
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	43.83	74.00	-30.17	29.12	14.71	PK
2	2390	45.01	74.00	-28.99	29.77	15.24	PK
! 3	2402.25	94.09	74.00	20.09	78.76	15.33	PK
4	2483.5	44.90	74.00	-29.10	29.05	15.85	PK
5	2494.275	47.71	74.00	-26.29	31.80	15.91	PK
6	2500	45.92	74.00	-28.08	29.98	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 :	802.15.1_BLE_2402MHz		

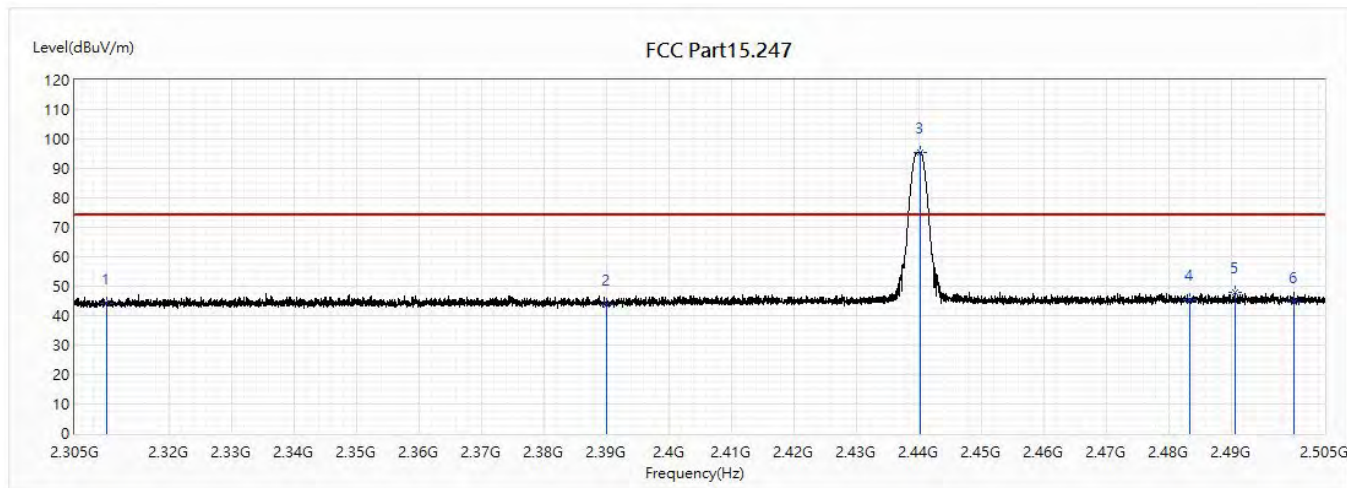


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.32	74.00	-29.68	29.61	14.71	PK
2	2390	45.28	74.00	-28.72	30.04	15.24	PK
! 3	2402.225	97.97	74.00	23.97	82.64	15.33	PK
4	2483.5	45.93	74.00	-28.07	30.08	15.85	PK
5	2485.7	48.30	74.00	-25.70	32.44	15.86	PK
6	2500	45.56	74.00	-28.44	29.62	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 :	802.15.1_BLE_2440MHz		

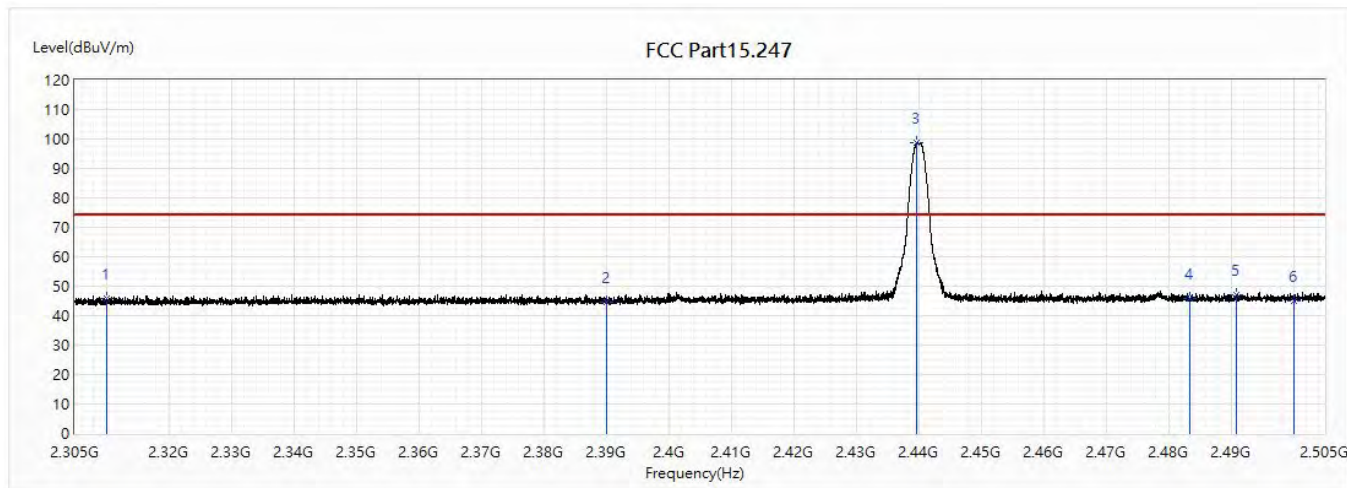


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.29	74.00	-29.71	29.58	14.71	PK
2	2390	43.82	74.00	-30.18	28.58	15.24	PK
! 3	2440.3	95.46	74.00	21.46	79.88	15.58	PK
4	2483.5	45.42	74.00	-28.58	29.57	15.85	PK
5	2490.65	47.79	74.00	-26.21	31.90	15.89	PK
6	2500	44.67	74.00	-29.33	28.73	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 :	802.15.1_BLE_2440MHz		



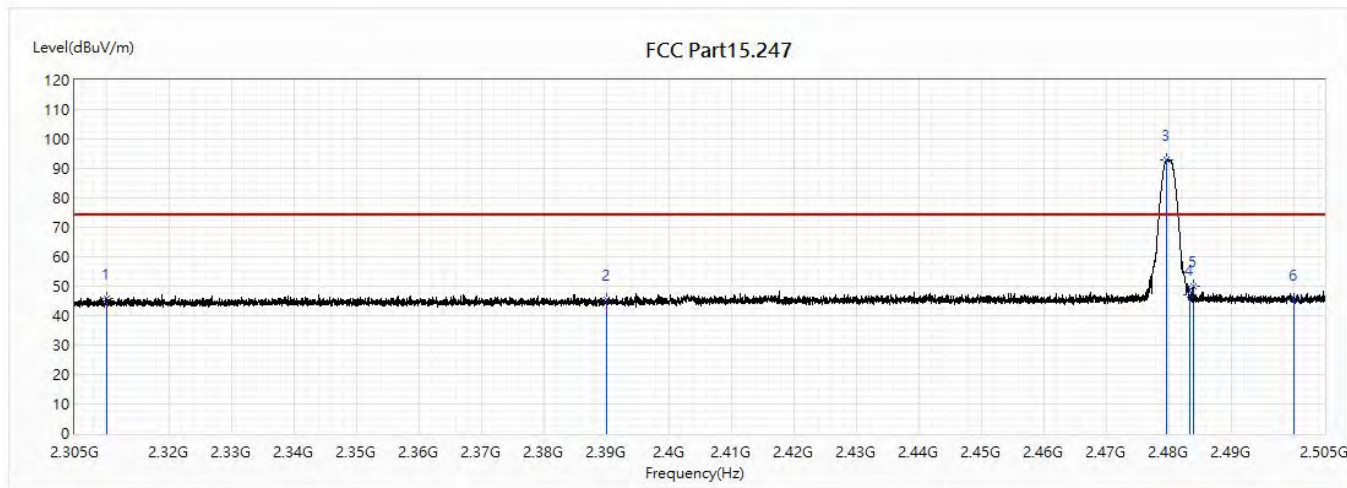
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	45.92	74.00	-28.08	31.21	14.71	PK
2	2390	44.79	74.00	-29.21	29.55	15.24	PK
! 3	2439.775	98.60	74.00	24.60	83.02	15.58	PK
4	2483.5	45.78	74.00	-28.22	29.93	15.85	PK
5	2490.8	47.16	74.00	-26.84	31.27	15.89	PK
6	2500	45.01	74.00	-28.99	29.07	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 :	802.15.1_BLE_2480MHz		

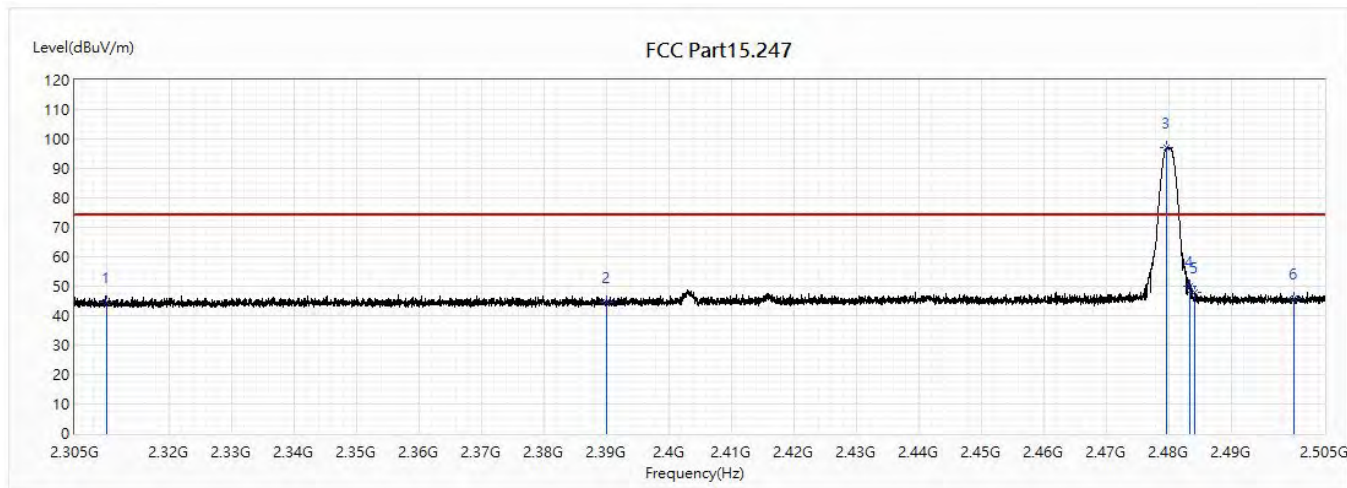


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	45.76	74.00	-28.24	31.05	14.71	PK
2	2390	45.22	74.00	-28.78	29.98	15.24	PK
! 3	2479.75	92.90	74.00	18.90	77.08	15.82	PK
4	2483.5	47.03	74.00	-26.97	31.18	15.85	PK
5	2483.925	49.85	74.00	-24.15	34.00	15.85	PK
6	2500	45.52	74.00	-28.48	29.58	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 :	802.15.1_BLE_2480MHz		



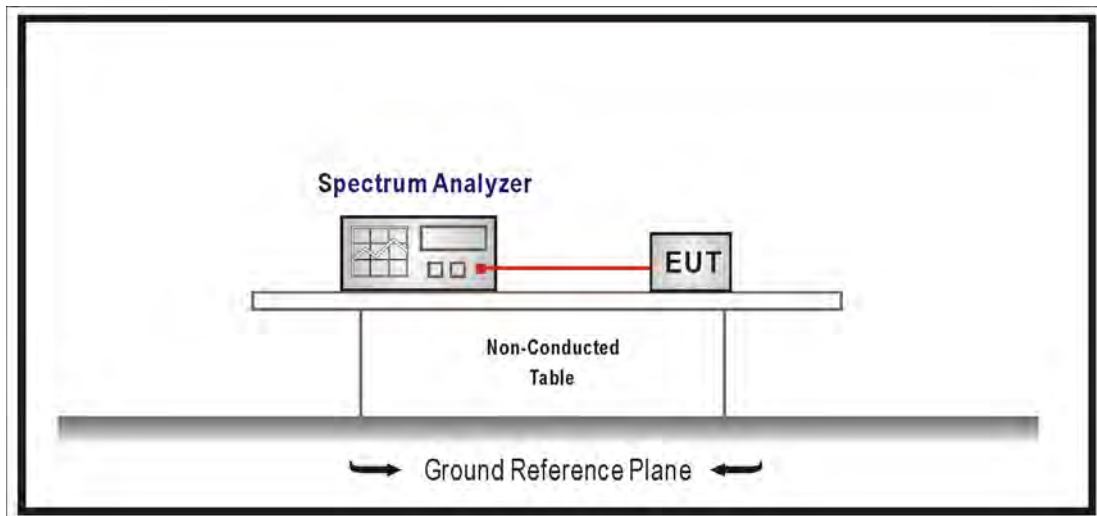
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.38	74.00	-29.62	29.67	14.71	PK
2	2390	44.53	74.00	-29.47	29.29	15.24	PK
! 3	2479.775	97.06	74.00	23.06	81.24	15.82	PK
4	2483.5	50.18	74.00	-23.82	34.33	15.85	PK
5	2484.2	47.97	74.00	-26.03	32.12	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.

## 7. Occupied Bandwidth & DTS Bandwidth

### 7.1. Test Setup



### 7.2. Limits

The 6 dB bandwidth:  $\geq 500$  kHz.

Occupied Bandwidth: NA

### 7.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB558074 D01V05 for compliance to FCC 47CFR 15.247 requirements.

### 7.4. Test Specification

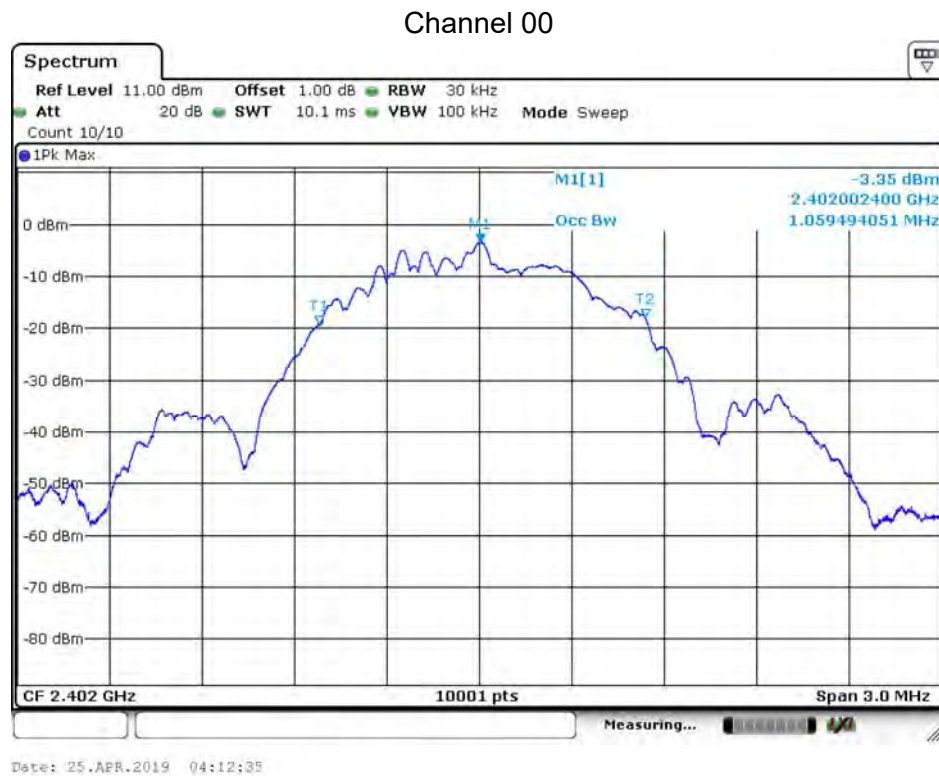
According to FCC Part 15 Subpart C Paragraph 15.247:2017

## 7.5. Test Result

Product	NAIL PRINTER		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/25	Test Site	SR10-H

Occupied Bandwidth:

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
00	2402	1.059	--
19	2440	1.060	--
39	2480	1.059	--



## Channel 19



## Channel 39

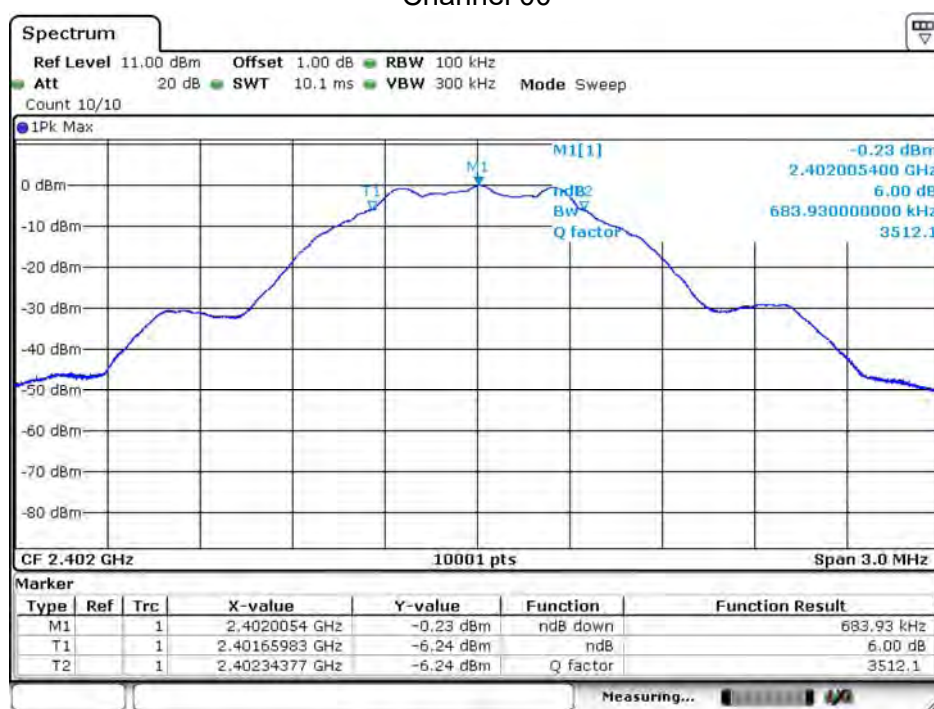


Product	NAIL PRINTER		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/25	Test Site	SR10-H

DTS Bandwidth:

Channel No.	Frequency (MHz)	Measure Level (kHz)	Limit (kHz)
00	2402	683.93	$\geq 500$
19	2440	686.03	$\geq 500$
39	2480	694.13	$\geq 500$

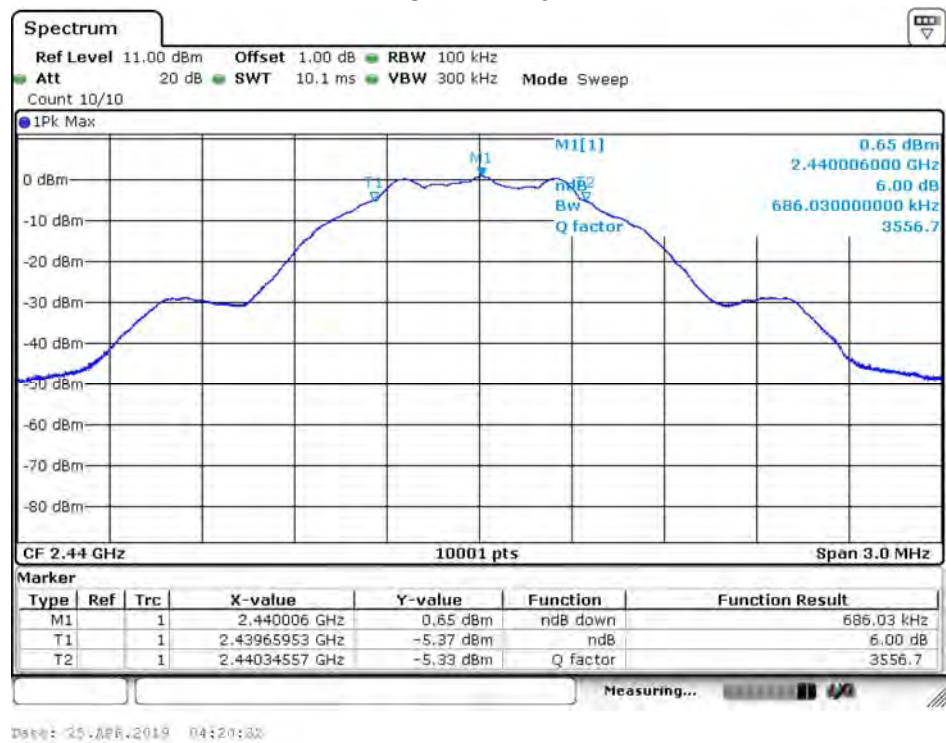
Channel 00



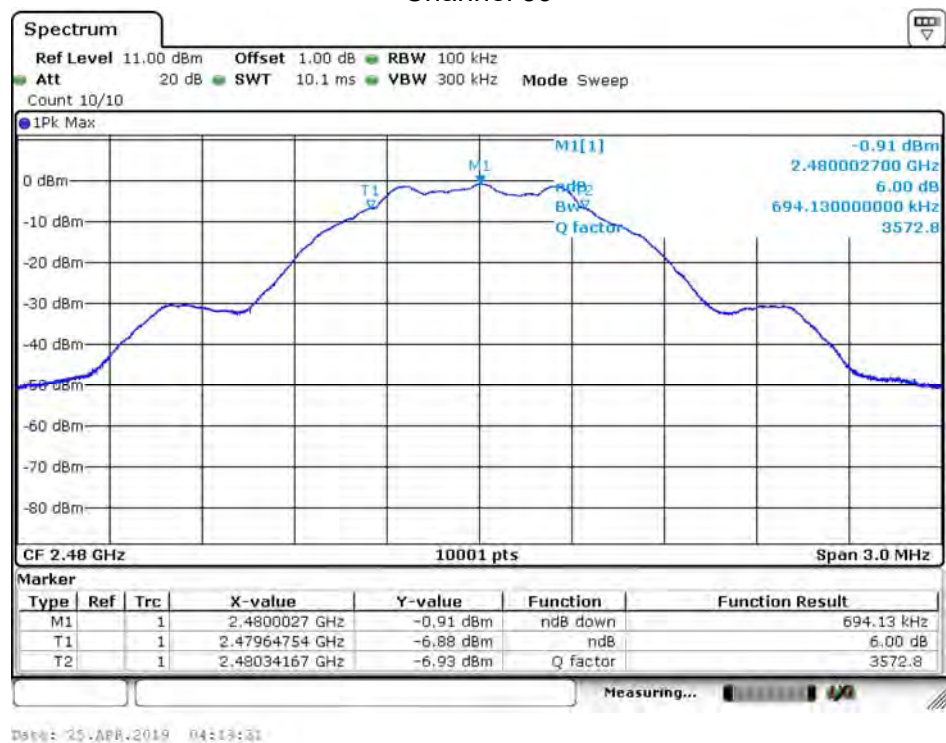
Date: 25.APR.2019 04:21:23



Channel 19

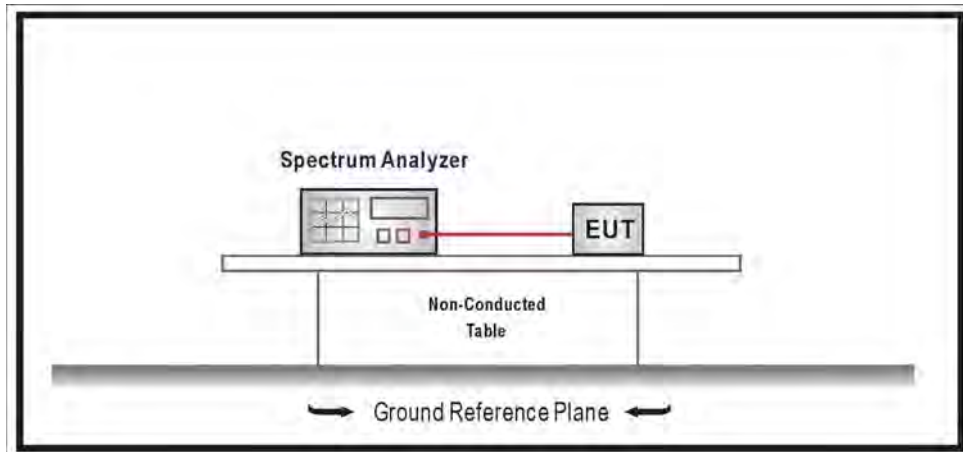


Channel 39



## 8. Power Density

### 8.1. Test Setup



### 8.2. 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.

### 8.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB558074 D01V04 for compliance to FCC 47CFR 15.247 requirements.

### 8.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247



## 8.5. Test Result

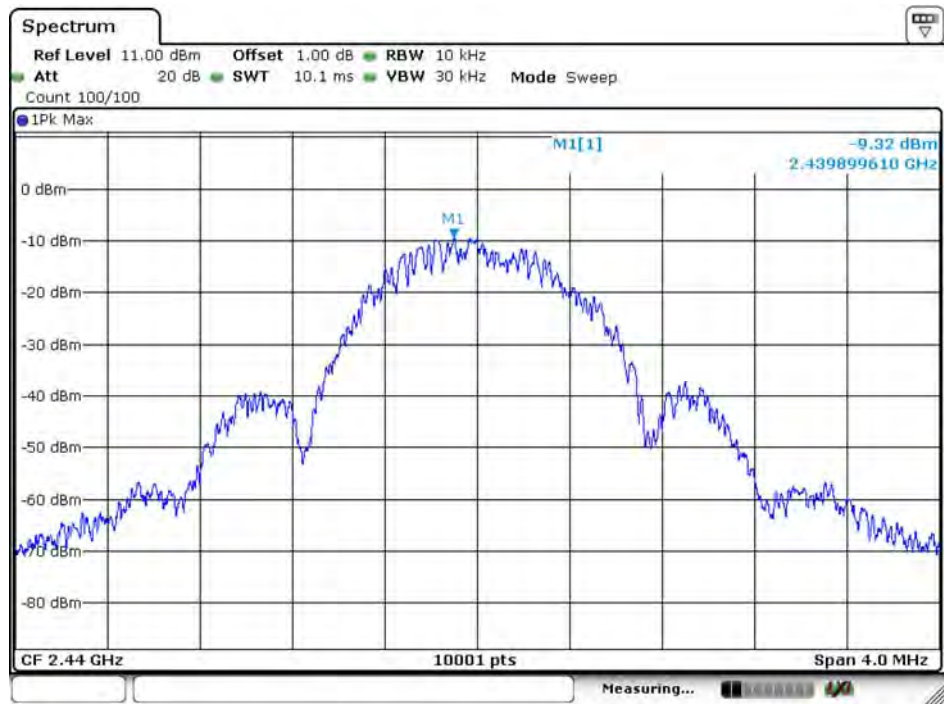
Product	NAIL PRINTER		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2019/04/25	Test Site	SR10-H

Channel No.	Frequency (MHz)	Measure Level (dBm/10kHz)	Limit (dBm/3kHz)
00	2402	-10.240	$\leq 8$
19	2440	-9.320	$\leq 8$
39	2480	-10.810	$\leq 8$

Channel 00

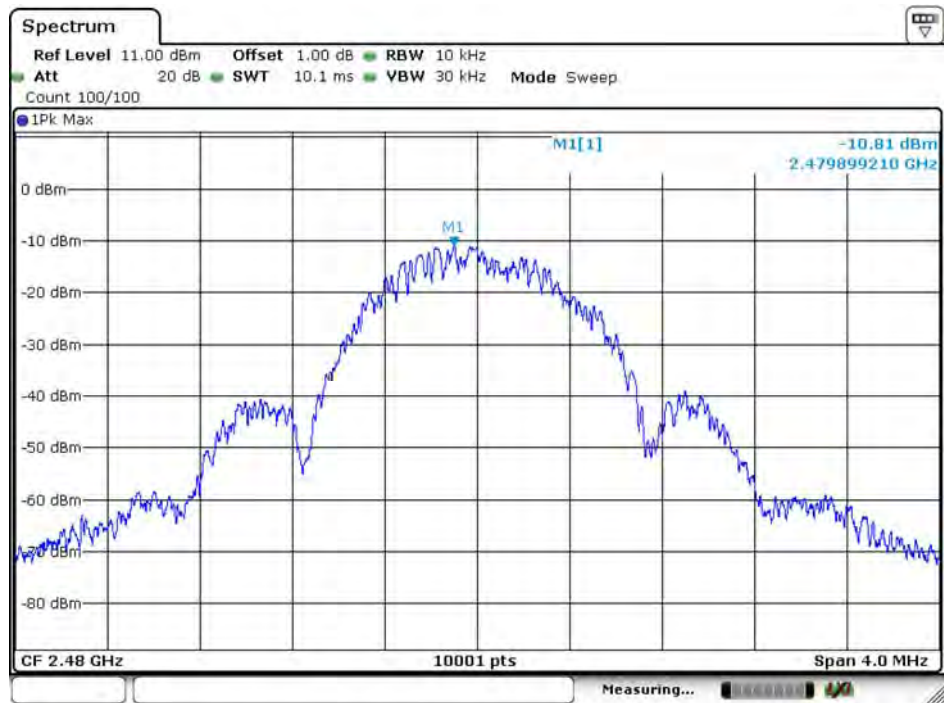


Channel 19



Date: 25.APR.2019 04:24:53

Channel 39



Date: 25.APR.2019 04:25:28