

FCC Test Report

Product Name : LATTE ART PRINTER

Trade Name : Jolimark

Model No. : CP111D

FCC ID. : WAGCP111D

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 : Jun. 22, 2021

Report No. : 1930419R-RFUSP73V00-A

Report Version : V1.0



The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of DEKRA Testing and Certification Co., Ltd.

Test Report Certification

Issued Date : Jun. 22, 2021

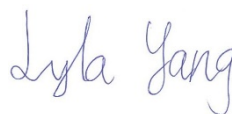
Report No. : 1930419R-RFUSP73V00-A



Product Name : LATTE ART 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. : CP111D
FCC ID. : WAGCP111D
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: 2019
ANSI C63.10: 2013
Laboratory Name : Hsin Chu Laboratory
Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu
County 310, Taiwan, R.O.C.
TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result : Complied

Documented By

:



(Lyla Yang / Engineering Adm. Specialist)

Tested By

:



(Max Chang / Senior Engineer)

Approved By

:



(Louis Hsu / Deputy Manager)

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Jun. 22, 2021

TABLE OF CONTENTS

Description	Page
1. General Information.....	6
1.1. EUT Description	6
1.2. Test Mode	7
1.3. Tested System Details	8
1.4. Configuration of tested System	8
1.5. EUT Exercise Software	9
1.6. Comments and Remarks.....	9
1.7. Test Facility	10
1.8. List of Test Equipment.....	11
1.9. Duty cycle	15
1.10. Uncertainty	16
2. Conducted Emission	17
2.1. Test Setup	17
2.2. Limits	17
2.3. Test Procedure	18
2.4. Test Specification	18
2.5. Test Result	19
3. Maximum peak conducted output power.....	21
3.1. Test Setup	21
3.2. Test procedures	21
3.3. Limits	21
3.4. Test Specification	21
3.5. Test Result	22
4. Radiated Emission	23
4.1. Test Setup	23
4.2. Limits	24
4.3. Test Procedure	25
4.4. Test Specification	25
4.5. Test Result	26
5. RF antenna conducted test	34
5.1. Test Setup	34
5.2. Limits	34
5.3. Test Procedure	34
5.4. Test Specification	34
5.5. Test Result	35
6. Radiated Emission Band Edge.....	39
6.1. Test Setup	39
6.2. Limits	39
6.3. Test Procedure	39
6.4. Test Specification	39
6.5. Test Result	40

7.	Occupied Bandwidth & DTS Bandwidth	46
7.1.	Test Setup	46
7.2.	Limits	46
7.3.	Test Procedures	46
7.4.	Test Specification	46
7.5.	Test Result	47
8.	Power Density	51
8.1.	Test Setup	51
8.2.	Limits	51
8.3.	Test Procedures	51
8.4.	Test Specification	51
8.5.	Test Result	52
Attachment 1		54
Test Setup Photograph		54
Attachment 2		57
EUT External Photograph		57
Attachment 3		63
EUT Internal Photograph		63

1. General Information

1.1. EUT Description

Product Name	LATTE ART PRINTER
Trade Name	Jolimark
Model No.	CP111D
Frequency Range	2402~2480MHz
Channel Number	40 Channels
Type of Modulation	GFSK

Antenna Information	
MFR. / Model No.	SHENZHEN HENGXIANGTONG / HXT_706
Antenna Type	FPC antenna
Antenna Gain	-1dBi

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

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 an LATTE ART PRINTER supports 2.4GHz b/g/n, BT 4.0 transmitting and receiving functions.
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.
3. The EUT description is from the customer declaration.

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 Mode
-----------	-----------------------

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

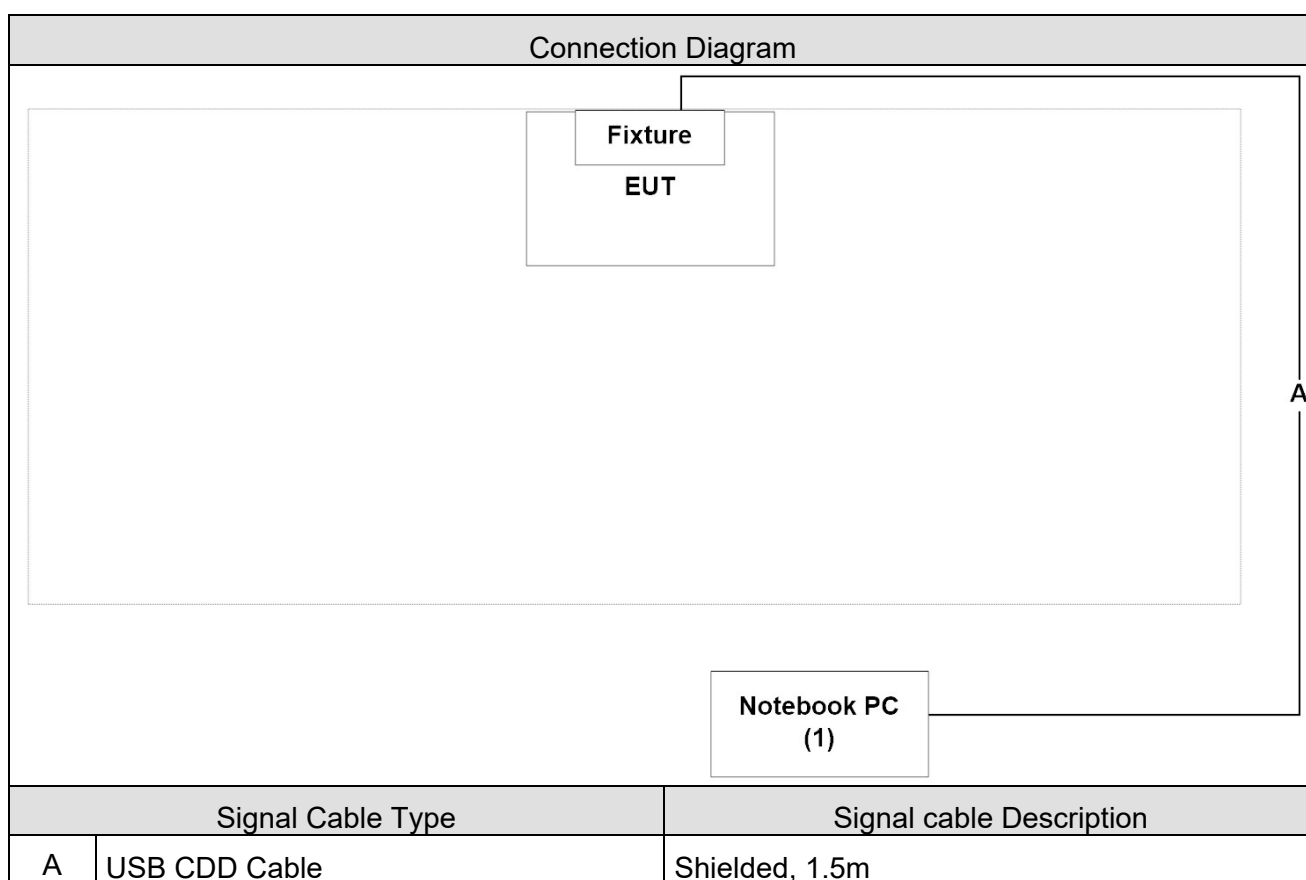
Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

1.3. Tested System Details

The types for all 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	Fixtuer	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 the command on the notebook.
3	Configure the test mode, the test channel, and the data rate.
4	Make the EUT to start the continuous transmitting or receiving.
5	Verify that the EUT works properly.

1.6. Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required	Test Site
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	2
Humidity (%RH)		25 - 75	
Temperature (°C)	FCC PART 15 C 15.247 Maximum peak conducted output power	15 - 35	1
Humidity (%RH)		25 - 75	
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission	15 - 35	1
Humidity (%RH)		25 - 75	
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	1
Humidity (%RH)		25 - 75	
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission Band Edge	15 - 35	1
Humidity (%RH)		25 - 75	
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth & DTS Bandwidth	15 - 35	1
Humidity (%RH)		25 - 75	
Temperature (°C)	FCC PART 15 C 15.247 Power Density	15 - 35	1
Humidity (%RH)		25 - 75	

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

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

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
Address	1. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. 2. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
Phone number	1. +886-3-582-8001 2. +886-3-582-8001
Fax number	1. +886-3-582-8958 2. +886-3-582-8958
Email address	info.tw@dekra.com
Website	http://www.dekra.com.tw

1.8. 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
LISN	R&S	ENV216	100092	2019/07/09	2020/07/08

Maximum peak conducted output power / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2018/12/17	2019/12/16
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2019/12/02	2020/12/01
Pulse Power Sensor	Anritsu	MA2411B	1531043	2018/12/17	2019/12/16
Pulse Power Sensor	Anritsu	MA2411B	1531043	2019/12/02	2020/12/01
Pulse Power Sensor	Anritsu	MA2411B	1531044	2018/12/17	2019/12/16
Pulse Power Sensor	Anritsu	MA2411B	1531044	2019/12/02	2020/12/01
Power Meter	Keysight	8990B	MY51000248	2019/05/22	2020/05/21
Power Sensor	Keysight	N1923A	MY57240005	2018/06/07	2019/06/06
Power Sensor	Keysight	N1923A	MY57240005	2019/05/21	2020/05/20

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 Analyzer	R&S	FSVA40	101455	2019/10/21	2020/10/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/12/21	2019/12/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2019/09/11	2020/09/10
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2019/03/15	2020/03/14
Bilog Antenna	Teseq	CBL6112D	23191	2018/06/26	2019/06/25
Bilog Antenna	Teseq	CBL6112D	23191	2019/06/17	2020/06/16
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2018/06/01	2019/05/31
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2019/05/28	2020/05/27
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/01/16	2020/01/15
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/12/27	2020/12/26
Pre-Amplifier	DEKRA	AP-025C	201801236	2019/02/18	2020/02/17
Pre-Amplifier	DEKRA	AP-025C	12183122	2019/09/24	2020/09/23
Pre-Amplifier	EMCI	EMC11830I	980366	2018/12/21	2019/12/20
Pre-Amplifier	EMCI	EMC11830I	980366	2019/12/03	2020/12/02
Pre-Amplifier	DEKRA	AP-400C	201801231	2018/12/05	2019/12/04
Pre-Amplifier	DEKRA	AP-400C	201801231	2019/12/03	2020/12/02
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2018/10/17	2019/10/16
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2019/10/25	2020/10/24
Band Reject Filter	Micro-Tronics	BRM50702	G192	2019/03/27	2020/03/26
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
Signal Analyzer	R&S	FSV40	101435	2019/07/08	2020/07/07
Coaxial Cable(16m)	Huber+Suhner	SF104	CB2-H	2018/08/21	2019/08/20
Coaxial Cable(16m)	Huber+Suhner	SF104	CB2-H	2019/07/25	2020/07/24
Coaxial Cable(23.5m)	Suhner	SF102_SF104_SF106	CB4_1	2018/08/21	2019/08/20
Coaxial Cable(19m)	Suhner	SF102_SF104_SF106	CB4_2	2019/07/25	2020/07/24

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	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/12/21	2019/12/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2019/09/11	2020/09/10

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 Analyzer	R&S	FSVA40	101455	2019/10/21	2020/10/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/12/21	2019/12/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2019/09/11	2020/09/10
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2019/03/15	2020/03/14
Bilog Antenna	Teseq	CBL6112D	23191	2018/06/26	2019/06/25
Bilog Antenna	Teseq	CBL6112D	23191	2019/06/17	2020/06/16
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2018/06/01	2019/05/31
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2019/05/28	2020/05/27
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/01/16	2020/01/15
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/12/27	2020/12/26
Pre-Amplifier	DEKRA	AP-025C	201801236	2019/02/18	2020/02/17
Pre-Amplifier	DEKRA	AP-025C	12183122	2019/09/24	2020/09/23
Pre-Amplifier	EMCI	EMC11830I	980366	2018/12/21	2019/12/20
Pre-Amplifier	EMCI	EMC11830I	980366	2019/12/03	2020/12/02
Pre-Amplifier	DEKRA	AP-400C	201801231	2018/12/05	2019/12/04
Pre-Amplifier	DEKRA	AP-400C	201801231	2019/12/03	2020/12/02
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2018/10/17	2019/10/16
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2019/10/25	2020/10/24
Band Reject Filter	Micro-Tronics	BRM50702	G192	2019/03/27	2020/03/26
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
Signal Analyzer	R&S	FSV40	101435	2019/07/08	2020/07/07
Coaxial Cable(16m)	Huber+Suhner	SF104	CB2-H	2018/08/21	2019/08/20
Coaxial Cable(16m)	Huber+Suhner	SF104	CB2-H	2019/07/25	2020/07/24
Coaxial Cable(23.5m)	Suhner	SF102_SF104_SF106	CB4_1	2018/08/21	2019/08/20

Occupied Bandwidth & 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	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/12/21	2019/12/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2019/09/11	2020/09/10

Power Density / SR10-H

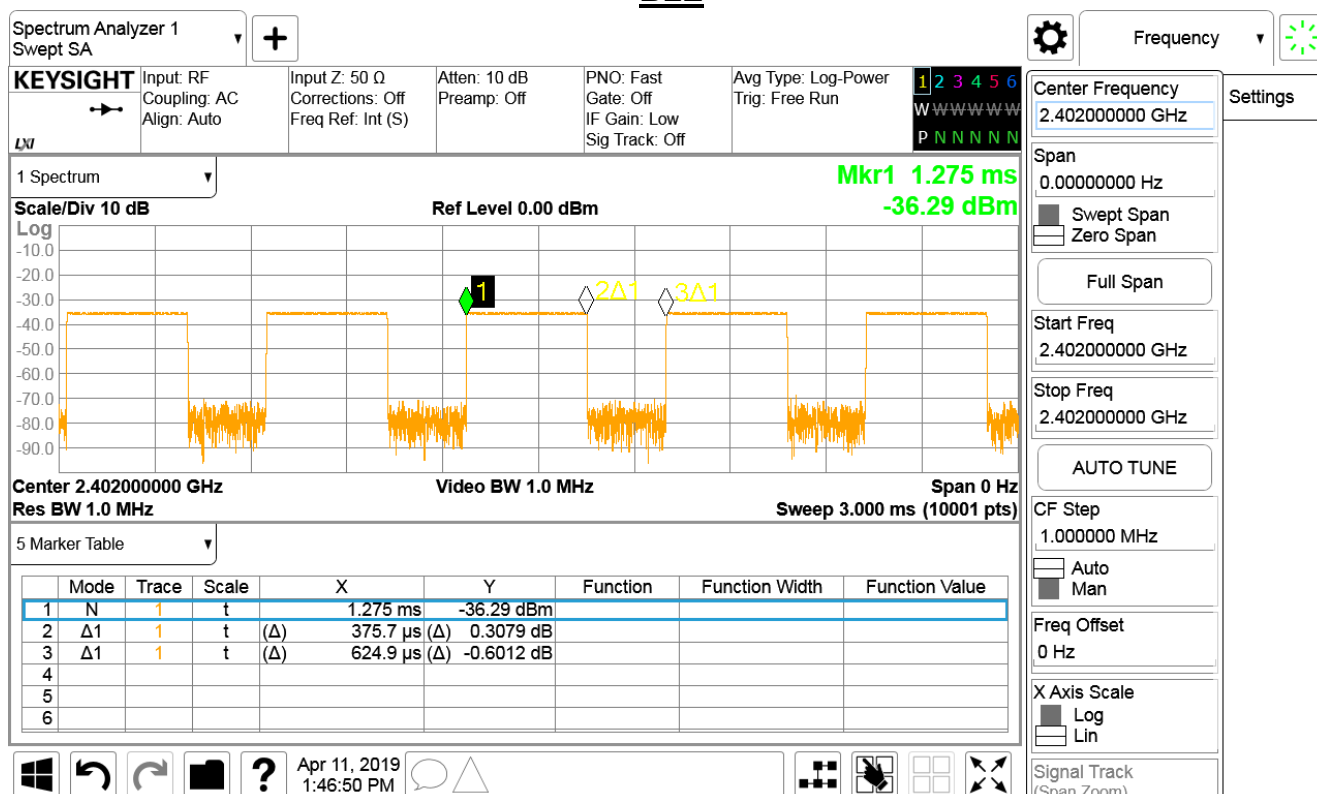
Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/12/21	2019/12/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2019/09/11	2020/09/10

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

1.9. Duty cycle

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
BLE	0.376	0.625	62.42%	2.05	2.560

BLE

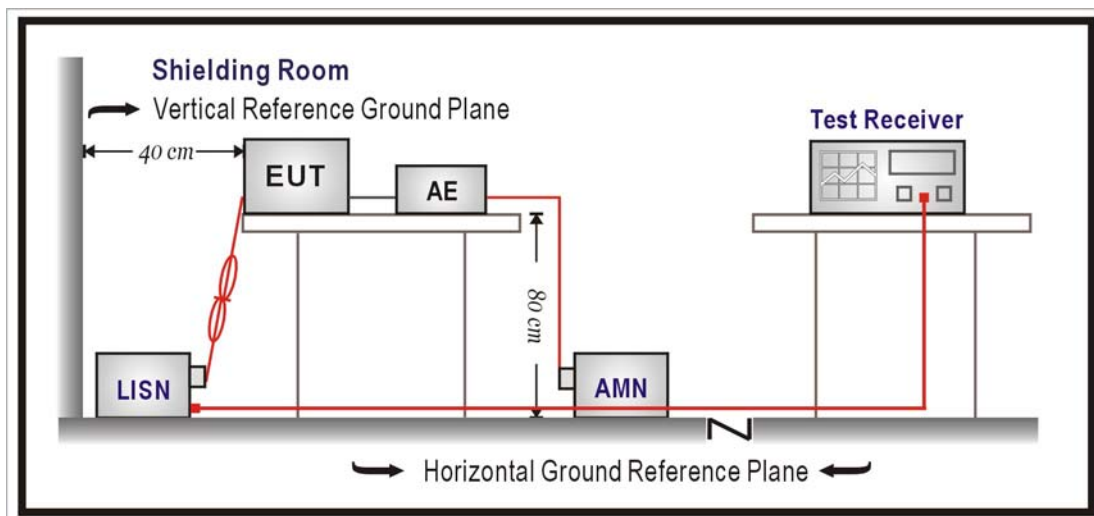


1.10. Uncertainty

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 Radiated Emission Band Edge	± 3.9 dB
Occupied Bandwidth	± 150 Hz
DTS Bandwidth	± 150 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 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.

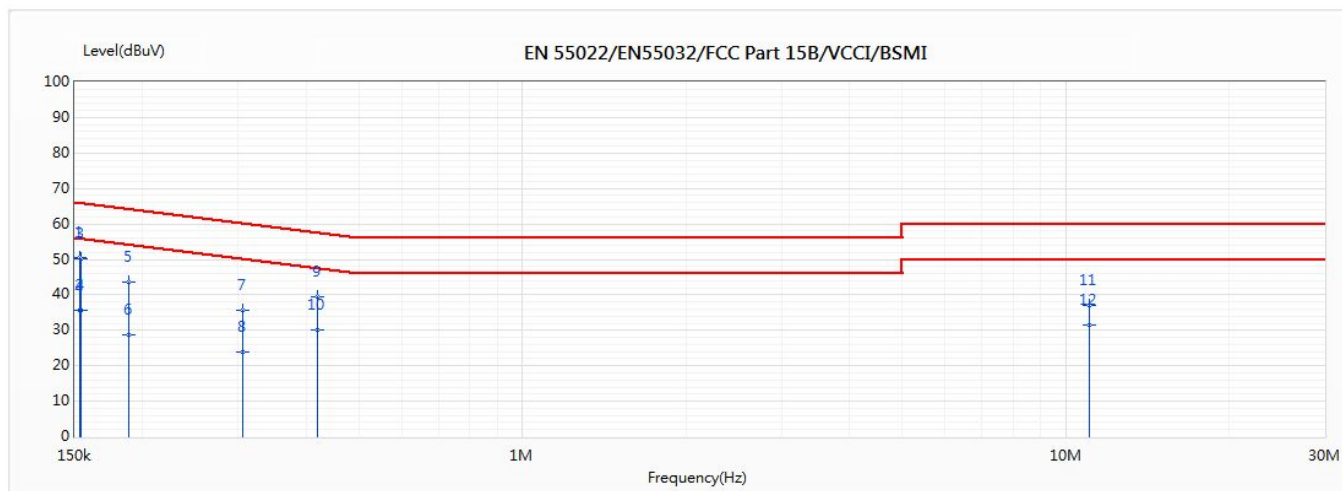
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.207: 2019.

2.5. Test Result

Site :	SR2-H	Engineer :	Mark
Model No :	CP111D	Test Date :	2019/6/28
Test Voltage :	AC 120V/60Hz	Phase :	L1
Test Mode :	Mode 1: Transmit Mode		
Note :	805.15.1 2440MHz		
Environmental Condition:	Temperature (°C) : 26.2 ; Relative Humidity (%RH) : 55		

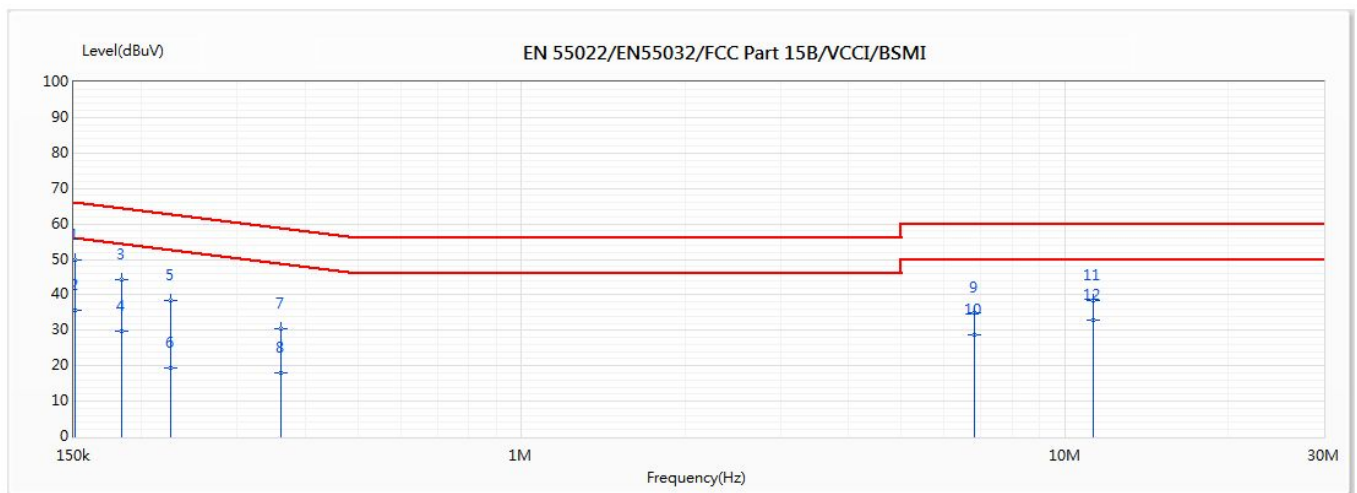


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Cable Loss (dB)	LISN (dB)	Detector Type
*1	0.153	50.37	65.90	-15.53	40.60	0.20	9.57	QP
2	0.153	35.53	55.90	-20.37	25.76	0.20	9.57	AV
3	0.154	50.29	65.89	-15.60	40.52	0.20	9.57	QP
4	0.154	35.54	55.89	-20.35	25.77	0.20	9.57	AV
5	0.188	43.74	64.90	-21.16	33.97	0.20	9.57	QP
6	0.188	28.67	54.90	-26.23	18.90	0.20	9.57	AV
7	0.306	35.70	61.54	-25.84	25.93	0.20	9.57	QP
8	0.306	23.95	51.54	-27.59	14.18	0.20	9.57	AV
9	0.42	39.28	58.27	-18.99	29.51	0.20	9.57	QP
10	0.42	30.17	48.27	-18.10	20.40	0.20	9.57	AV
11	11.092	37.04	60.00	-22.96	26.77	0.60	9.68	QP
12	11.092	31.38	50.00	-18.62	21.10	0.60	9.68	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 :	Mark
Model No :	CP111D	Test Date :	2019/6/28
Test Voltage :	AC 120V/60Hz	Phase :	L2
Test Mode :	Mode 1: Transmit Mode		
Note :	805.15.1 2440MHz		
Environmental Condition:	Temperature (°C) : 26.2 ; Relative Humidity (%RH) : 55		



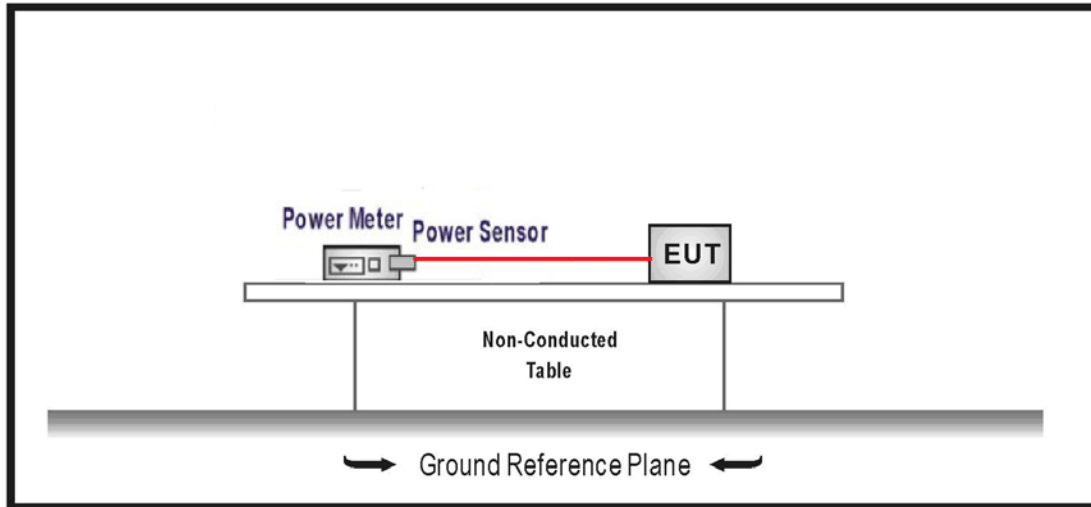
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Cable Loss (dB)	LISN (dB)	Detector Type
*1	0.15	49.99	65.99	-16.00	40.22	0.20	9.57	QP
2	0.15	35.67	55.99	-20.32	25.90	0.20	9.57	AV
3	0.183	44.19	65.05	-20.86	34.42	0.20	9.57	QP
4	0.183	29.60	55.05	-25.45	19.83	0.20	9.57	AV
5	0.226	38.57	63.83	-25.26	28.80	0.20	9.57	QP
6	0.226	19.42	53.83	-34.41	9.65	0.20	9.57	AV
7	0.36	30.44	59.99	-29.55	20.67	0.20	9.57	QP
8	0.36	17.86	49.99	-32.13	8.09	0.20	9.57	AV
9	6.836	34.85	60.00	-25.15	24.80	0.41	9.64	QP
10	6.836	28.87	50.00	-21.13	18.82	0.41	9.64	AV
11	11.286	38.31	60.00	-21.69	28.03	0.60	9.68	QP
12	11.286	32.74	50.00	-17.26	22.46	0.60	9.68	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 D01V05r02 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: 2019.

3.5. Test Result

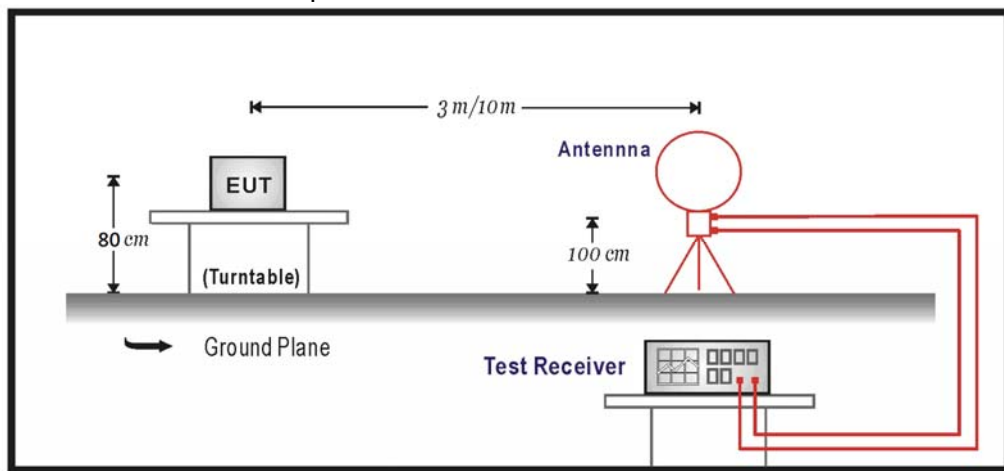
Product	LATTE ART PRINTER		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2019/05/04	Test Site	SR10-H
Test Temperature	23.4°C	Test Humidity	60.0%

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
00	2402	-7.60	30
19	2440	-6.30	30
39	2480	-6.20	30

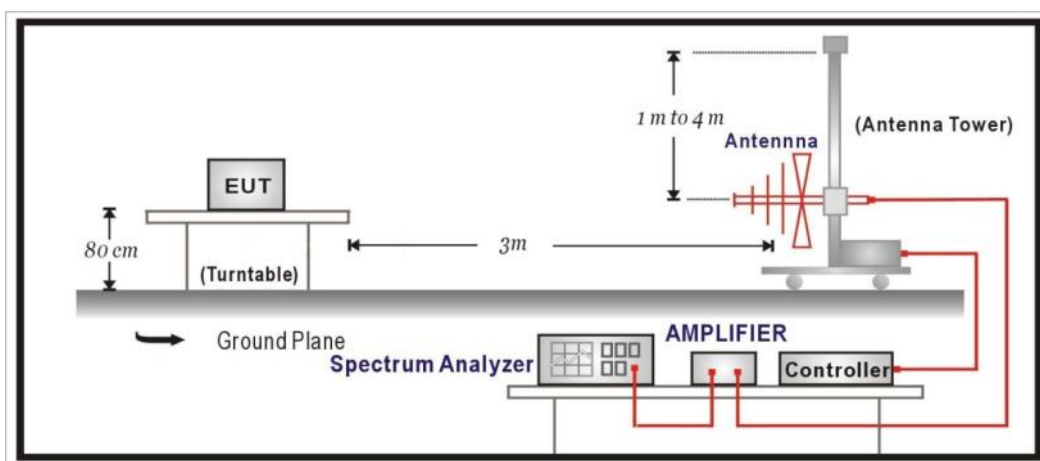
4. Radiated Emission

4.1. Test Setup

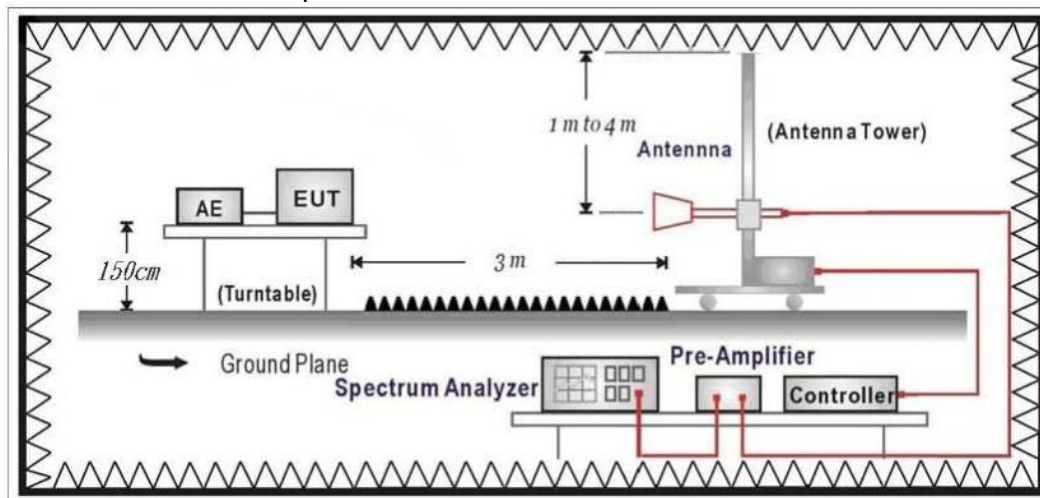
Under 30MHz Test Setup:



Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.2. Limits

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

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

Remarks: 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 D01V05r02 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.

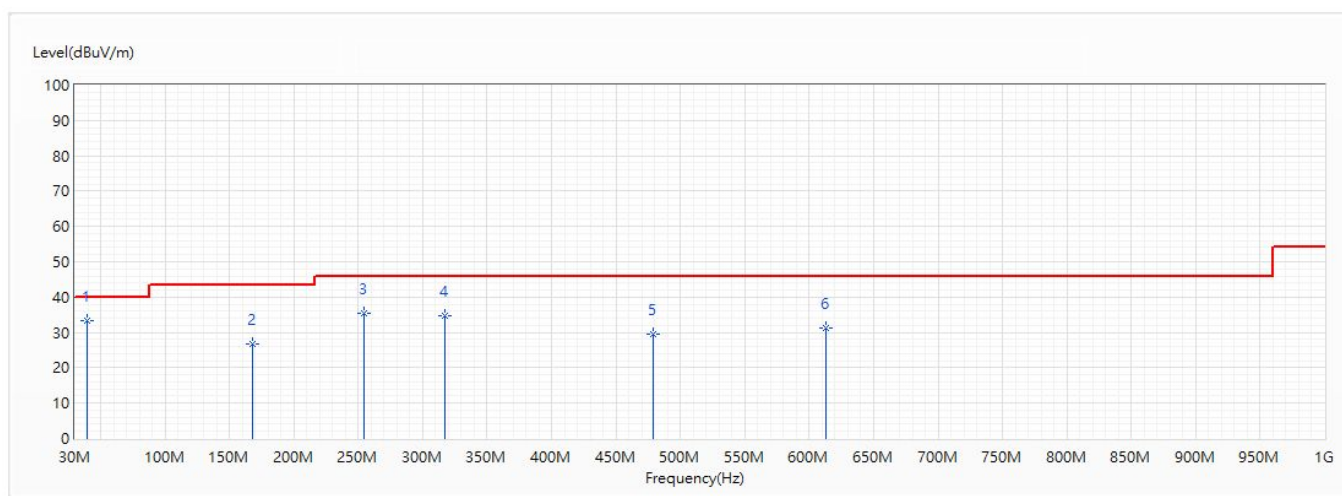
4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019.

4.5. Test Result

30MHz-1GHz Spurious

Site :	CB4-H	Engineer :	Elwin
Model No :	CP111D	Test Date :	2019/6/26
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit Mode		
Note :	802.15.1_BLE_2440MHz		
Environmental Condition:	Temperature (°C) : 23.8 ; Relative Humidity (%RH) : 50		

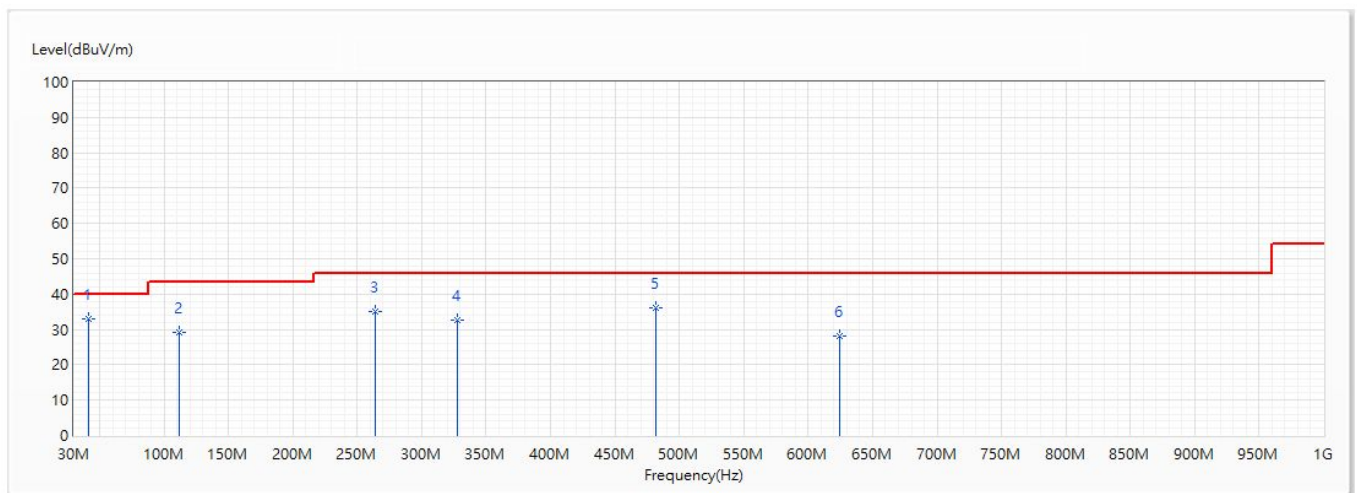


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	39.943	33.34	40.00	-6.66	49.94	-16.60	QP
2	167.619	26.63	43.50	-16.87	49.56	-22.93	QP
3	254.798	35.37	46.00	-10.63	56.33	-20.96	QP
4	317.363	34.56	46.00	-11.44	54.16	-19.60	QP
5	479.231	29.56	46.00	-16.44	45.26	-15.70	QP
6	613.334	31.08	46.00	-14.92	45.50	-14.42	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 :	CP111D	Test Date :	2019/6/26
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit Mode		
Note :	802.15.1_BLE_2440MHz		
Environmental Condition:	Temperature (°C) : 23.8 ; Relative Humidity (%RH) : 50		



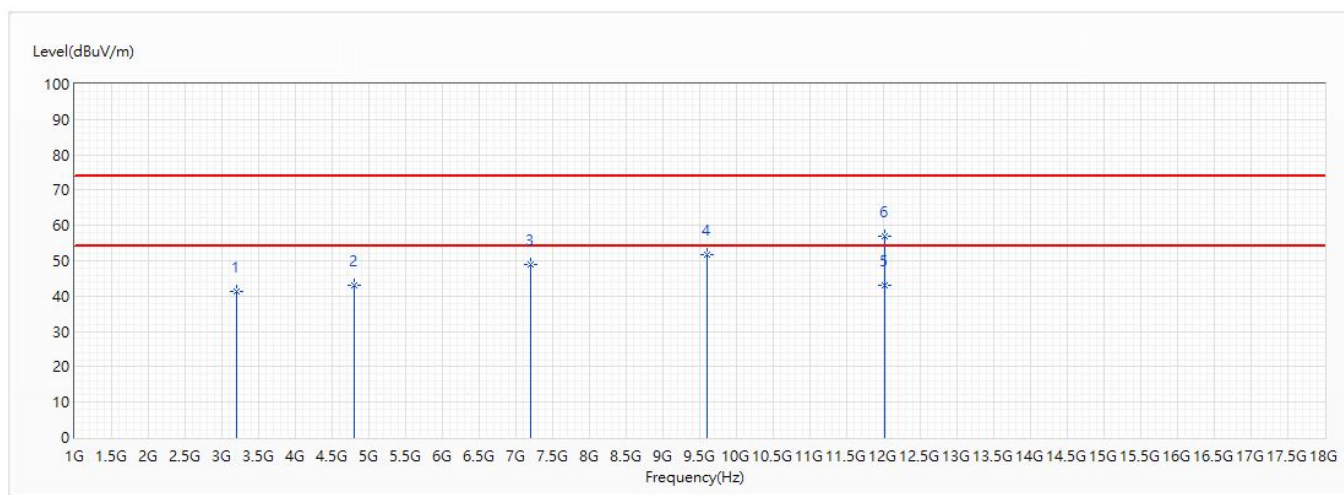
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	41.155	33.07	40.00	-6.93	50.14	-17.07	QP
2	111.723	29.25	43.50	-14.25	52.28	-23.03	QP
3	263.891	34.97	46.00	-11.03	55.76	-20.79	QP
4	327.305	32.54	46.00	-13.46	51.83	-19.29	QP
5	482.02	36.02	46.00	-9.98	51.68	-15.66	QP
6	624.61	28.15	46.00	-17.85	42.49	-14.34	QP

Note:

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

Harmonic & Spurious:

Site :	CB4-H	Engineer :	Lion
Model No :	CP111D	Test Date :	2019/5/3
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit Mode		
Note :	2402MHz		
Environmental Condition:	Temperature (°C) : 23.3 ; Relative Humidity (%RH) : 60		

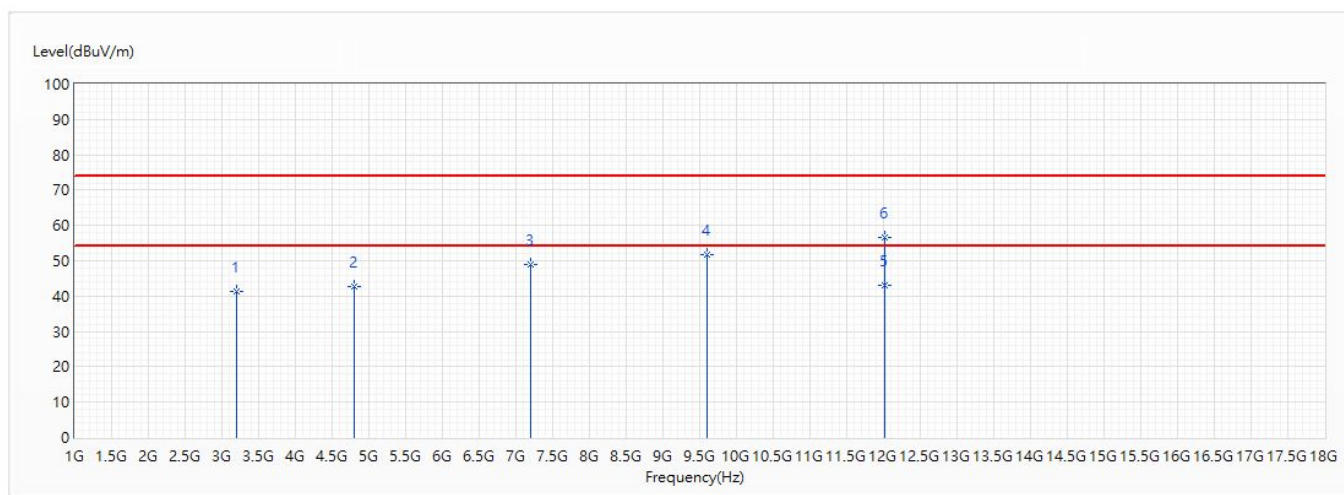


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3202.67	41.43	74.00	-32.57	37.35	4.08	PK
2	4804	43.18	74.00	-30.82	33.34	9.84	PK
3	7206	48.99	74.00	-25.01	32.44	16.55	PK
4	9608	51.67	74.00	-22.33	30.94	20.73	PK
* 5	12010	43.14	54.00	-10.86	19.22	23.92	AV
6	12010	56.80	74.00	-17.20	32.88	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 value.
3. Emission Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Site :	CB4-H	Engineer :	Lion
Model No :	CP111D	Test Date :	2019/5/3
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit Mode		
Note :	2402MHz		
Environmental Condition:	Temperature (°C) : 23.3 ; Relative Humidity (%RH) : 60		

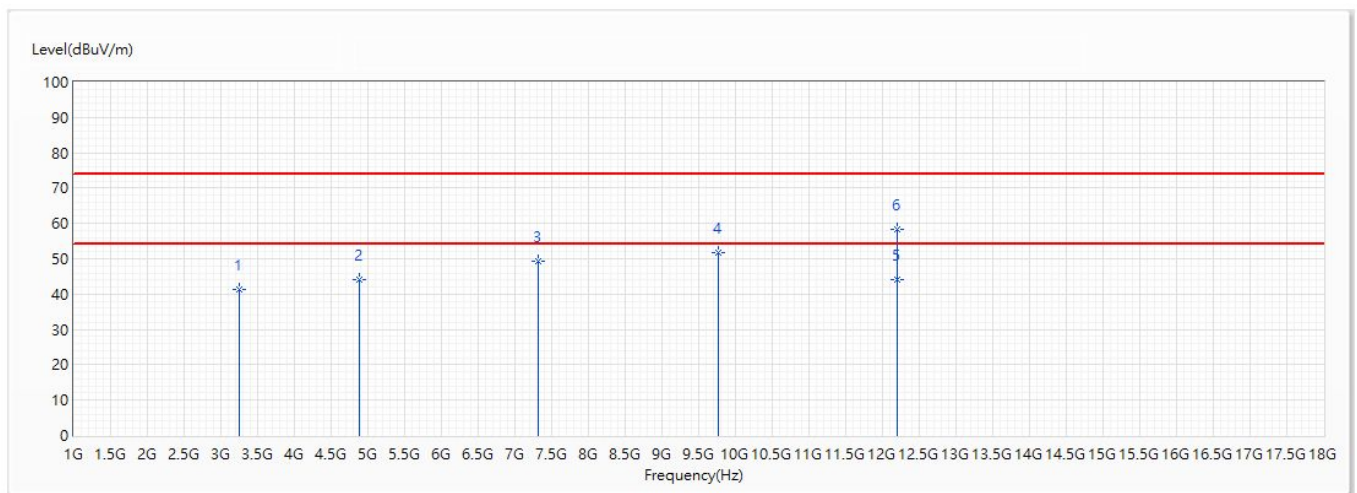


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3202.67	41.47	74.00	-32.53	37.39	4.08	PK
2	4804	42.77	74.00	-31.23	32.93	9.84	PK
3	7206	49.09	74.00	-24.91	32.54	16.55	PK
4	9608	51.63	74.00	-22.37	30.90	20.73	PK
* 5	12010	43.19	54.00	-10.81	19.27	23.92	AV
6	12010	56.64	74.00	-17.36	32.72	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 value.
3. Emission Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Site :	CB4-H	Engineer :	Lion
Model No :	CP111D	Test Date :	2019/5/3
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit Mode		
Note :	2440MHz		
Environmental Condition:	Temperature (°C) : 23.3 ; Relative Humidity (%RH) : 60		

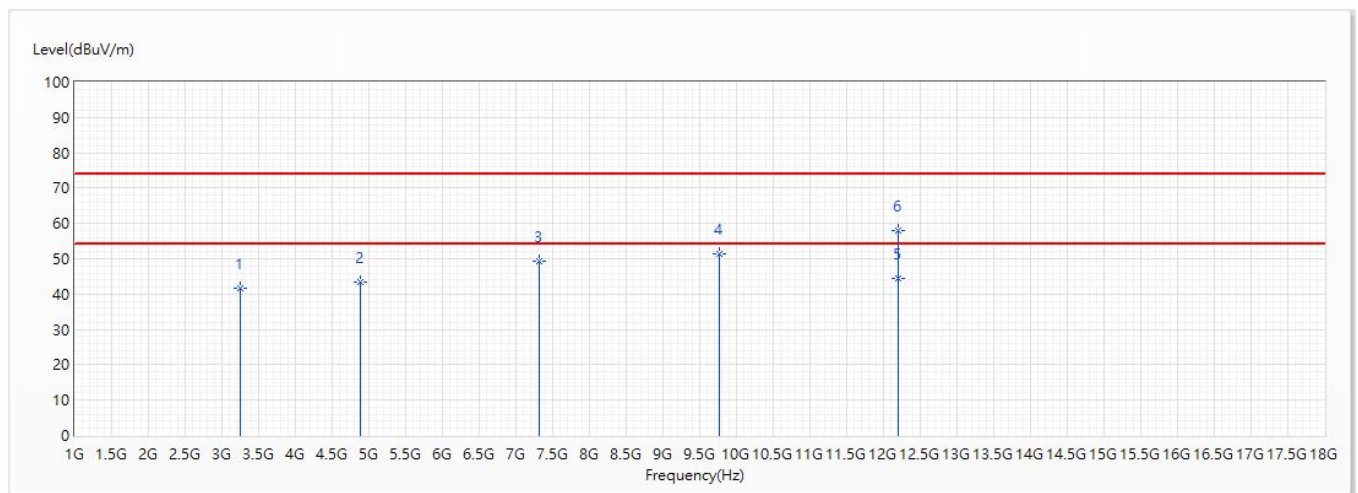


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3253.33	41.38	74.00	-32.62	37.12	4.26	PK
2	4880	44.11	74.00	-29.89	33.79	10.32	PK
3	7320	49.17	74.00	-24.83	32.58	16.59	PK
4	9760	51.90	74.00	-22.10	31.39	20.51	PK
* 5	12200	44.17	54.00	-9.83	19.38	24.79	AV
6	12200	58.18	74.00	-15.82	33.39	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 value.
3. Emission Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Site :	CB4-H	Engineer :	Lion
Model No :	CP111D	Test Date :	2019/5/3
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit Mode		
Note :	2440MHz		
Environmental Condition:	Temperature (°C) : 23.3 ; Relative Humidity (%RH) : 60		

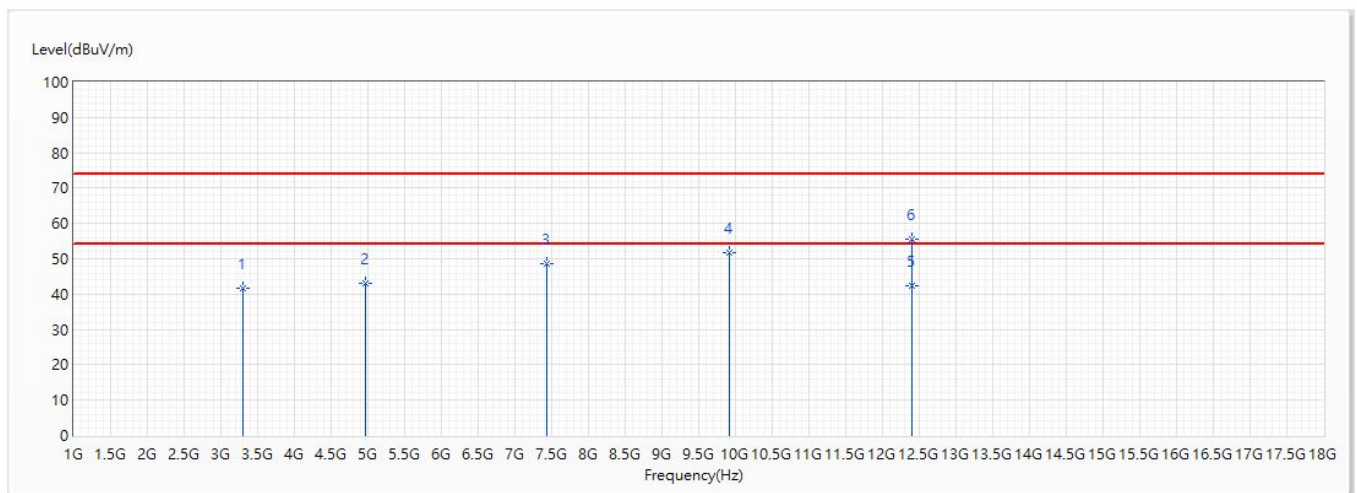


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3253.33	41.52	74.00	-32.48	37.26	4.26	PK
2	4880	43.46	74.00	-30.54	33.14	10.32	PK
3	7320	49.38	74.00	-24.62	32.79	16.59	PK
4	9760	51.54	74.00	-22.46	31.03	20.51	PK
* 5	12200	44.32	54.00	-9.68	19.53	24.79	AV
6	12200	57.99	74.00	-16.01	33.20	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 value.
3. Emission Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Site :	CB4-H	Engineer :	Lion
Model No :	CP111D	Test Date :	2019/5/3
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit Mode		
Note :	2480MHz		
Environmental Condition:	Temperature (°C) : 23.3 ; Relative Humidity (%RH) : 60		

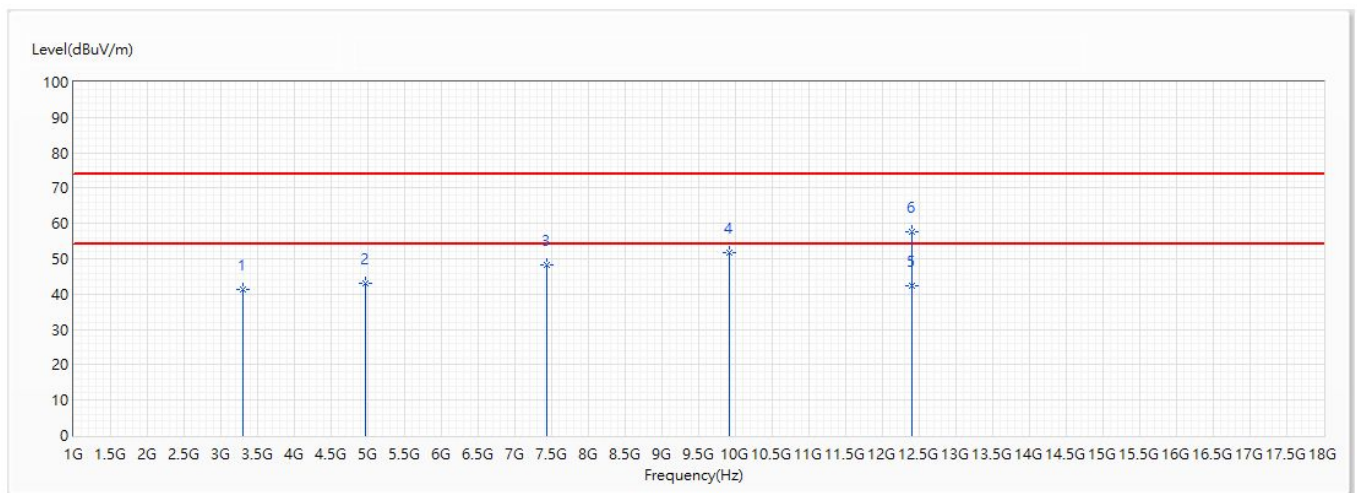


No	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Reading Level (dBUV)	Correct Factor (dB)	Detector Type
1	3306.67	41.55	74.00	-32.45	37.03	4.52	PK
2	4960	43.13	74.00	-30.87	32.59	10.54	PK
3	7440	48.59	74.00	-25.41	31.80	16.79	PK
4	9920	51.88	74.00	-22.12	31.31	20.57	PK
* 5	12400	42.39	54.00	-11.61	17.94	24.45	AV
6	12400	55.66	74.00	-18.34	31.21	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 value.
3. Emission Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Site :	CB4-H	Engineer :	Lion
Model No :	CP111D	Test Date :	2019/5/3
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit Mode		
Note :	2480MHz		
Environmental Condition:	Temperature (°C) : 23.3 ; Relative Humidity (%RH) : 60		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3306.67	41.45	74.00	-32.55	36.93	4.52	PK
2	4960	43.03	74.00	-30.97	32.49	10.54	PK
3	7440	48.36	74.00	-25.64	31.57	16.79	PK
4	9920	51.74	74.00	-22.26	31.17	20.57	PK
* 5	12400	42.41	54.00	-11.59	17.96	24.45	AV
6	12400	57.47	74.00	-16.53	33.02	24.45	PK

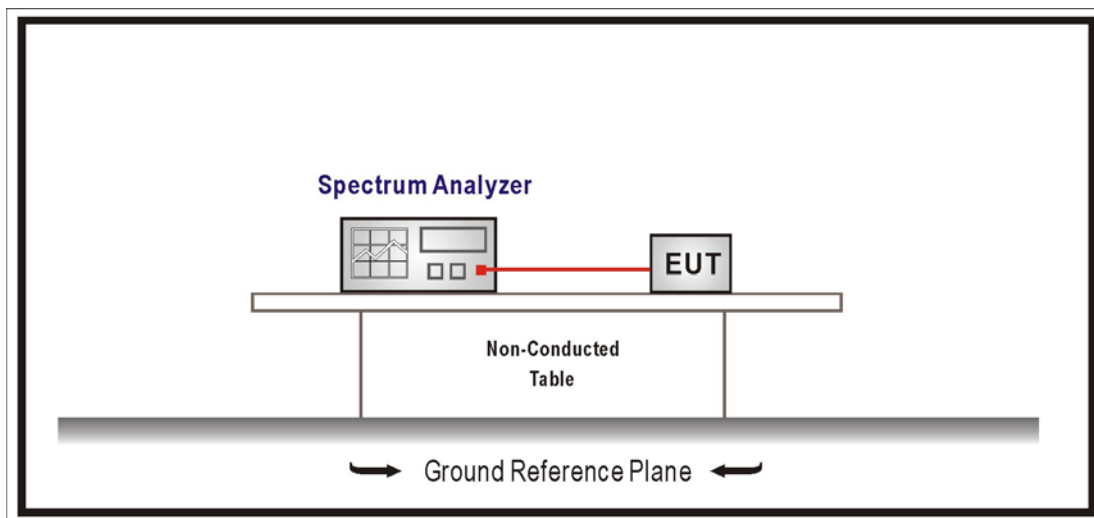
Note:

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

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 D01V05r02 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.4. Test Specification

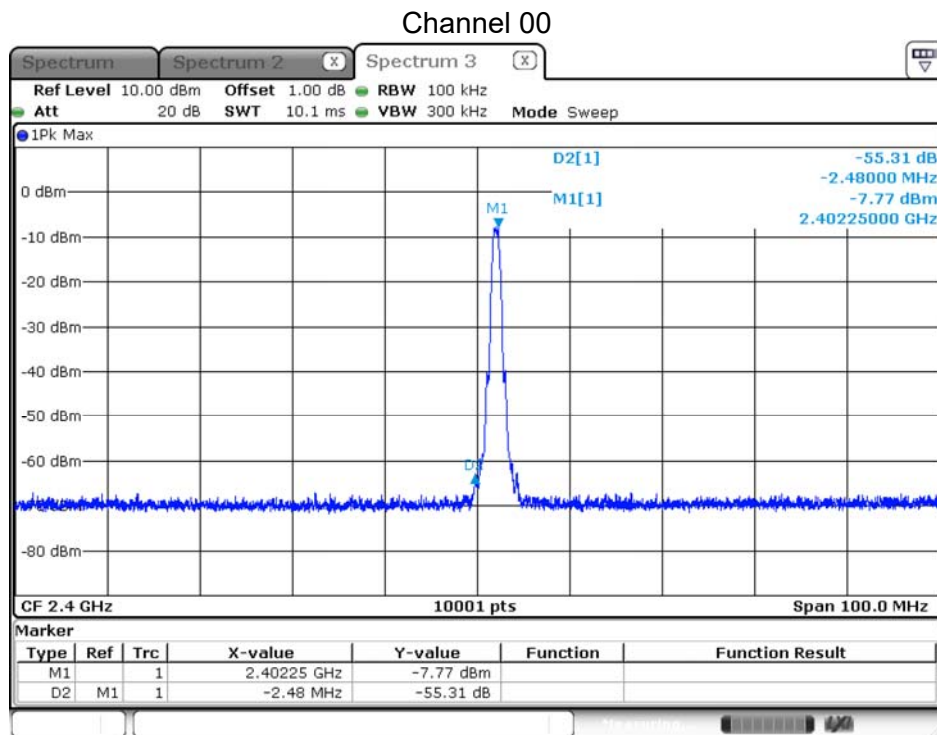
According to FCC Part 15 Subpart C Paragraph 15.247: 2019.

5.5. Test Result

Product	LATTE ART PRINTER		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2019/05/04	Test Site	SR10-H
Test Temperature	23.4°C	Test Humidity	60.0%

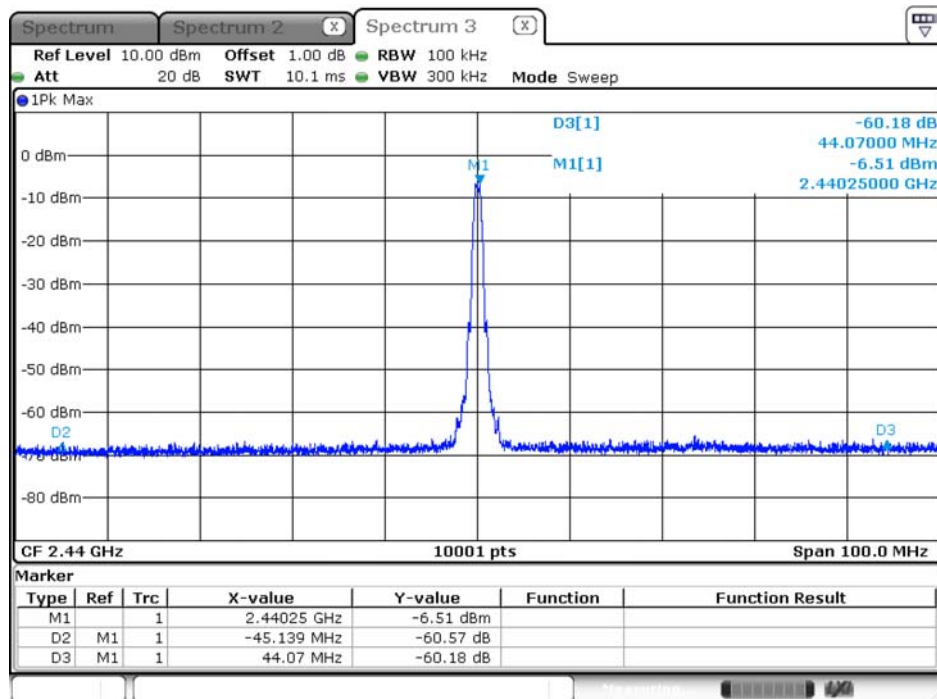
GFSK

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)
00	2402	48.89	≥ 20
19	2440	50.00	≥ 20
39	2480	49.73	≥ 20



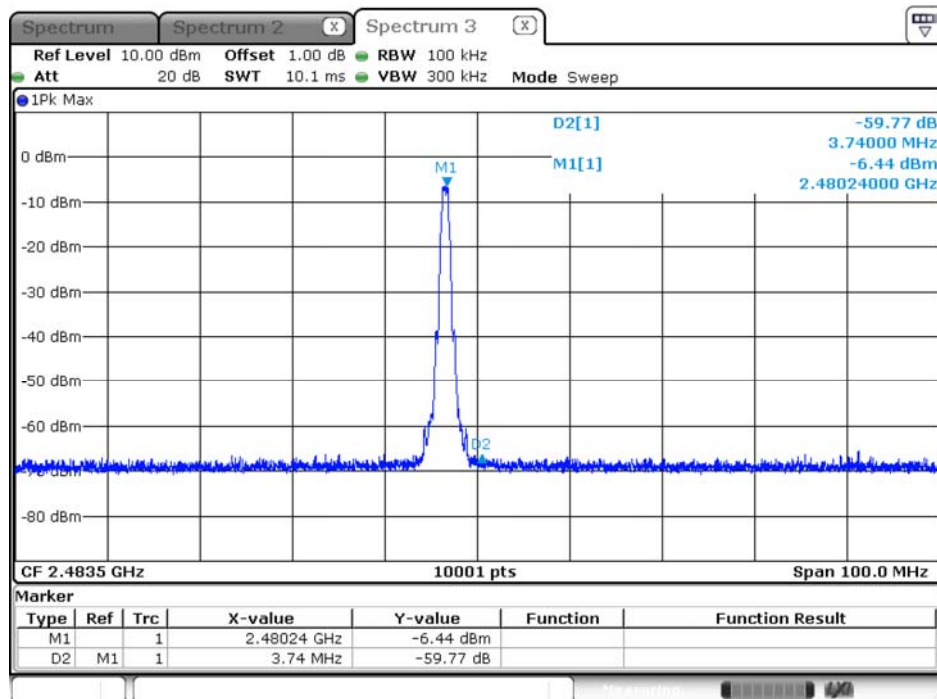
Date: 4.MAY.2019 02:36:36

Channel 19



Date: 4.MAY.2019 02:42:37

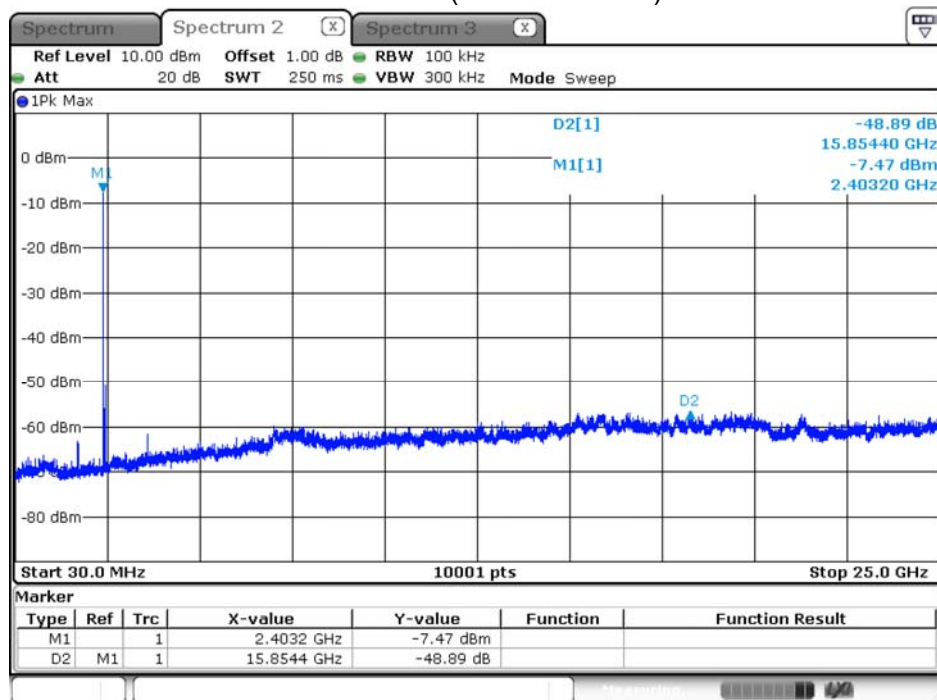
Channel 39



Date: 4.MAY.2019 02:39:23

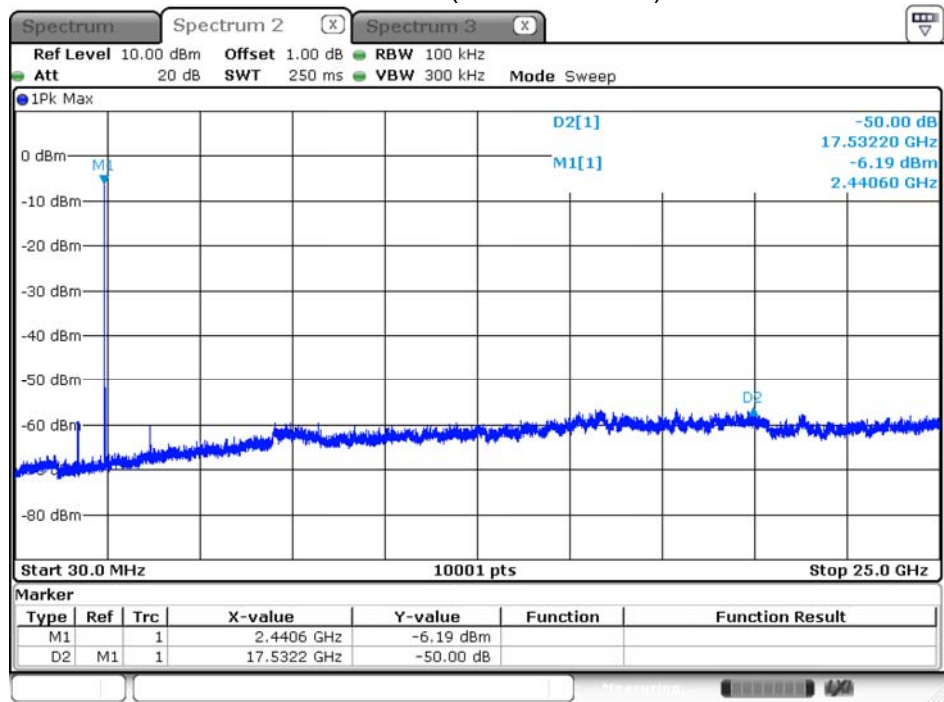
Product	LATTE ART PRINTER		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2019/05/04	Test Site	SR10-H
Test Temperature	23.4°C	Test Humidity	60.0%

Channel 00 (30MHz-25GHz)



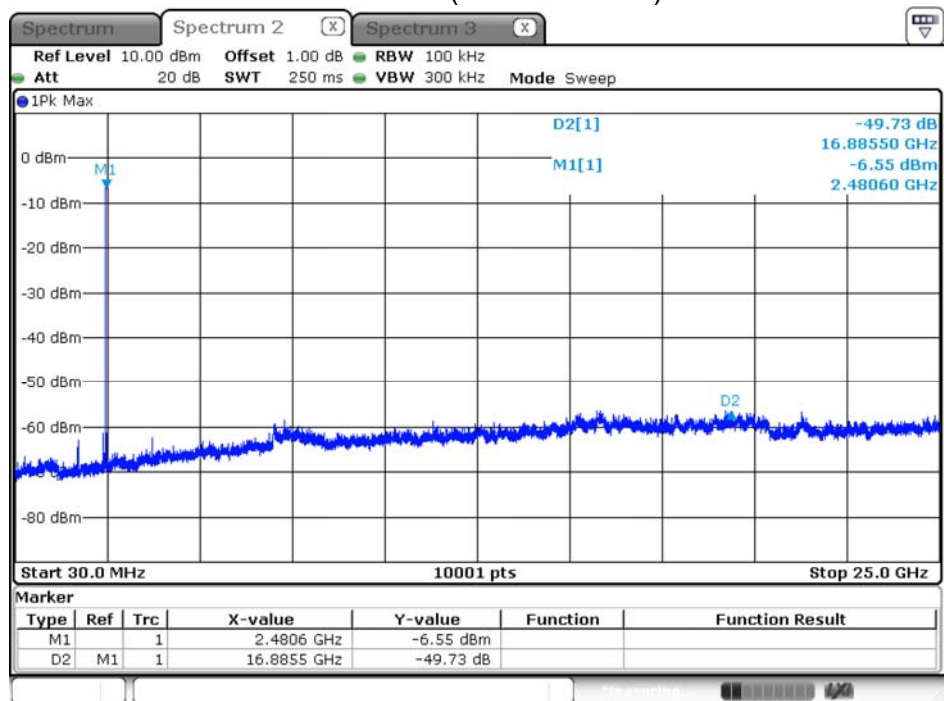
Date: 4.MAY.2019 02:12:35

Channel 19 (30MHz-25GHz)



Date: 4.MAY.2019 02:10:42

Channel 39 (30MHz-25GHz)

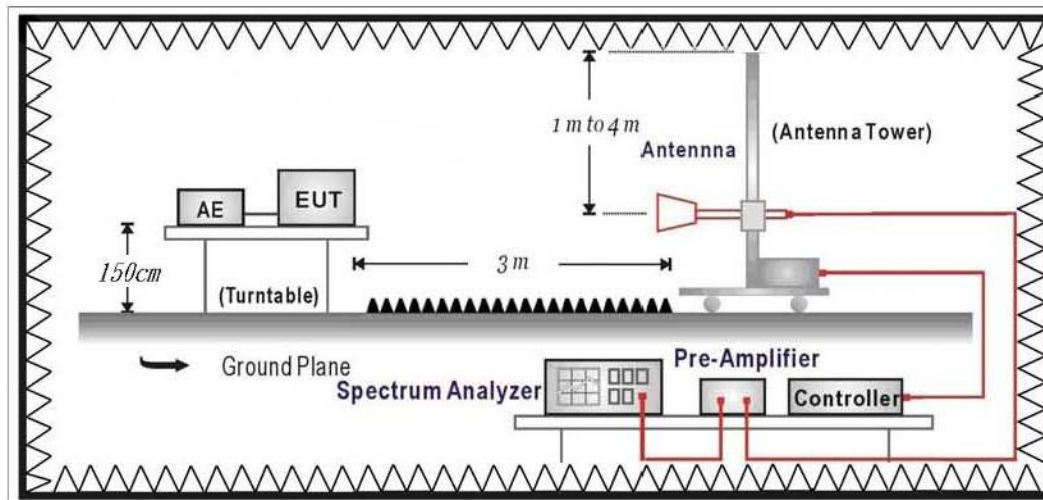


Date: 4.MAY.2019 02:09:22

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 D01V05r02 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.

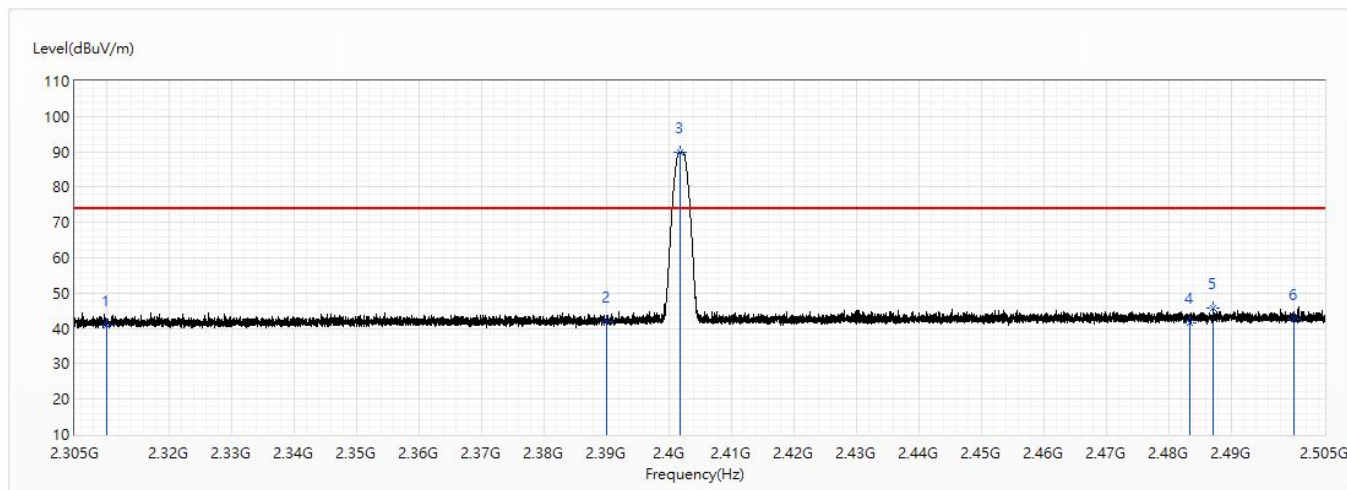
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019.

6.5. Test Result

Site :	CB4-H	Engineer :	Lion
Model No :	CP111D	Test Date :	2019/5/3
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit Mode		
Note :	2402MHz		
Environmental Condition:	Temperature (°C) : 23.3 ; Relative Humidity (%RH) : 60		

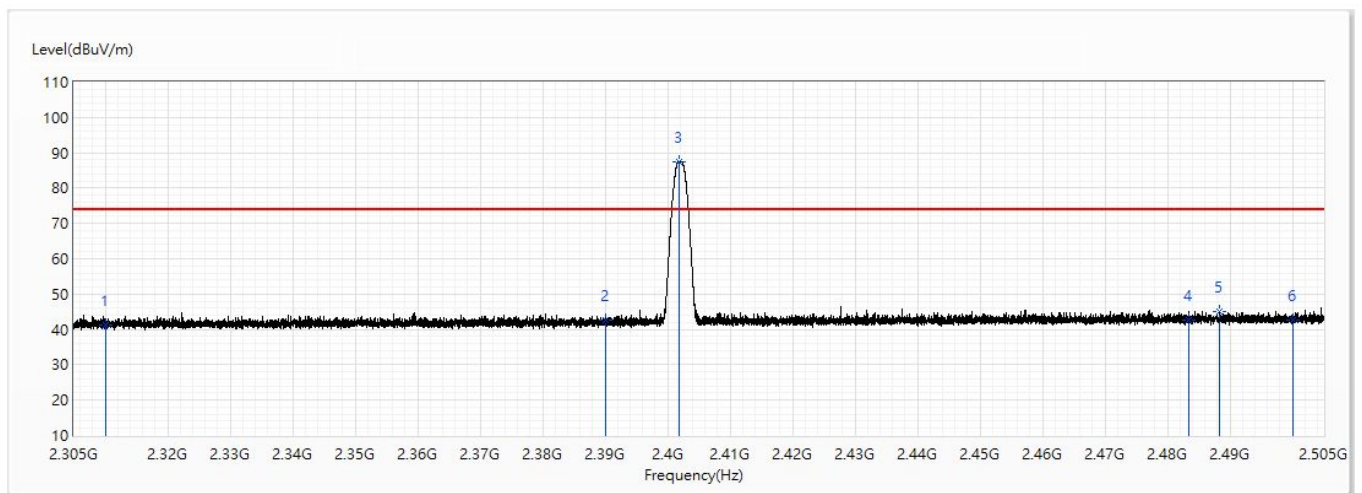


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	40.76	74.00	-33.24	26.31	14.45	PK
2	2390	41.80	74.00	-32.20	26.84	14.96	PK
! 3	2401.783	90.02	74.00	16.02	74.98	15.04	PK
4	2483.5	41.55	74.00	-32.45	26.00	15.55	PK
5	2487.083	45.74	74.00	-28.26	30.17	15.57	PK
6	2500	42.81	74.00	-31.19	27.17	15.64	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. 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
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Lion
Model No :	CP111D	Test Date :	2019/5/3
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit Mode		
Note :	2402MHz		
Environmental Condition:	Temperature (°C) : 23.3 ; Relative Humidity (%RH) : 60		

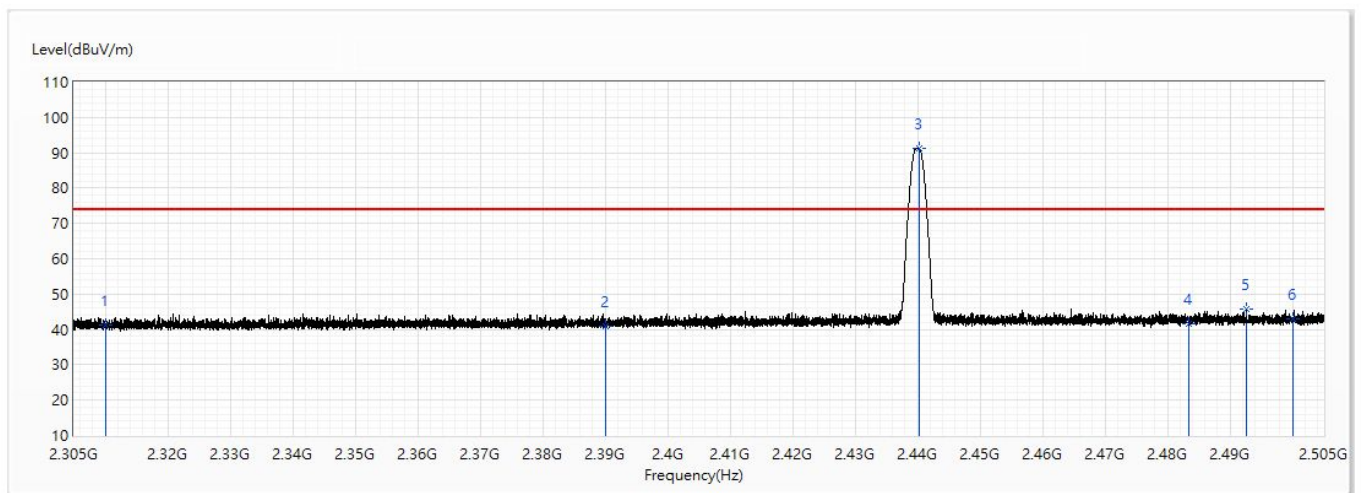


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	41.31	74.00	-32.69	26.86	14.45	PK
2	2390	42.63	74.00	-31.37	27.67	14.96	PK
! 3	2401.767	87.38	74.00	13.38	72.34	15.04	PK
4	2483.5	42.53	74.00	-31.47	26.98	15.55	PK
5	2488.317	45.23	74.00	-28.77	29.66	15.57	PK
6	2500	42.47	74.00	-31.53	26.83	15.64	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. 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
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Lion
Model No :	CP111D	Test Date :	2019/5/3
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit Mode		
Note :	2440MHz		
Environmental Condition:	Temperature (°C) : 23.3 ; Relative Humidity (%RH) : 60		

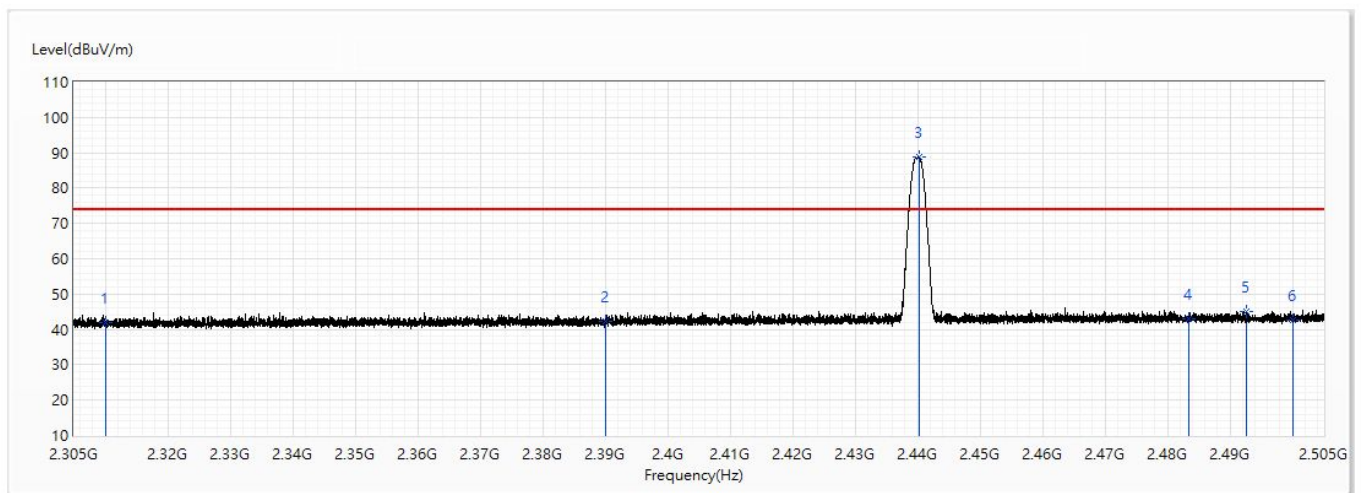


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	41.38	74.00	-32.62	26.93	14.45	PK
2	2390	40.91	74.00	-33.09	25.95	14.96	PK
! 3	2440.267	91.24	74.00	17.24	75.95	15.29	PK
4	2483.5	41.59	74.00	-32.41	26.04	15.55	PK
5	2492.65	45.79	74.00	-28.21	30.19	15.60	PK
6	2500	42.89	74.00	-31.11	27.25	15.64	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. 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
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Lion
Model No :	CP111D	Test Date :	2019/5/3
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit Mode		
Note :	2440MHz		
Environmental Condition:	Temperature (°C) : 23.3 ; Relative Humidity (%RH) : 60		

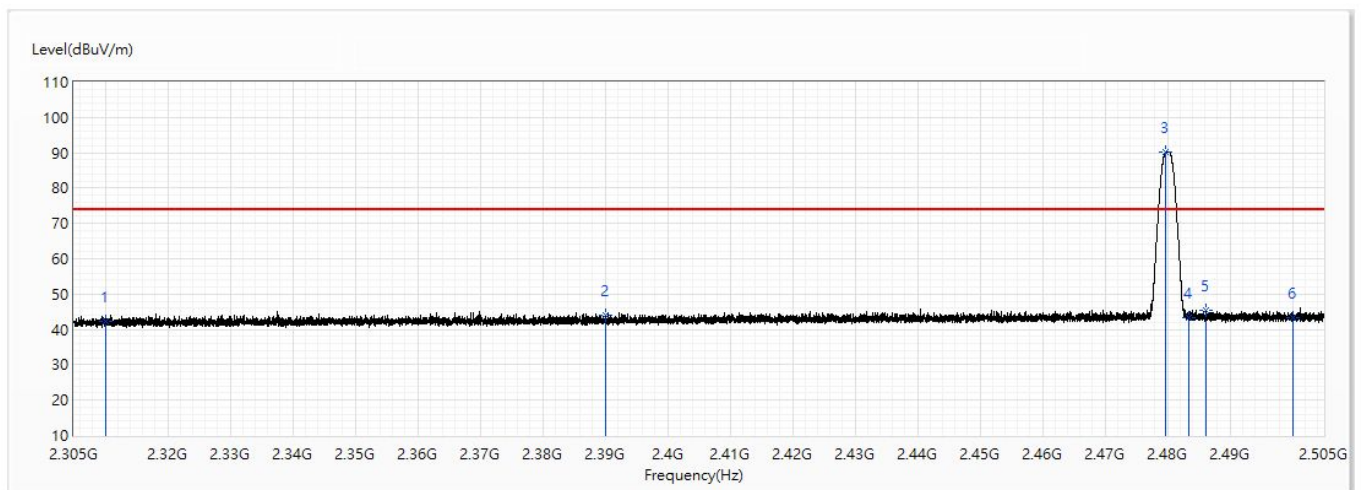


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	42.10	74.00	-31.90	27.65	14.45	PK
2	2390	42.23	74.00	-31.77	27.27	14.96	PK
! 3	2440.25	88.69	74.00	14.69	73.40	15.29	PK
4	2483.5	43.00	74.00	-31.00	27.45	15.55	PK
5	2492.633	45.11	74.00	-28.89	29.51	15.60	PK
6	2500	42.48	74.00	-31.52	26.84	15.64	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. 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
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Lion
Model No :	CP111D	Test Date :	2019/5/3
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit Mode		
Note :	2480MHz		
Environmental Condition:	Temperature (°C) : 23.3 ; Relative Humidity (%RH) : 60		

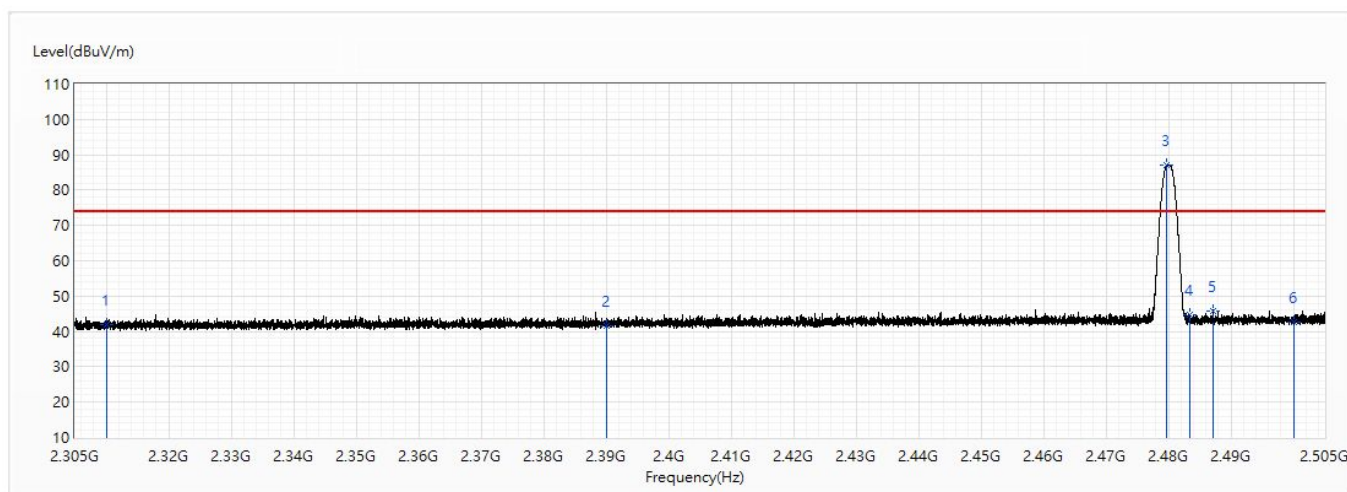


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	42.28	74.00	-31.72	27.83	14.45	PK
2	2390	44.06	74.00	-29.94	29.10	14.96	PK
! 3	2479.767	90.35	74.00	16.35	74.83	15.52	PK
4	2483.5	43.28	74.00	-30.72	27.73	15.55	PK
5	2486.133	45.31	74.00	-28.69	29.74	15.57	PK
6	2500	43.16	74.00	-30.84	27.52	15.64	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. 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
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB4-H	Engineer :	Lion
Model No :	CP111D	Test Date :	2019/5/3
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 1: Transmit Mode		
Note :	2480MHz		
Environmental Condition:	Temperature (°C) : 23.3 ; Relative Humidity (%RH) : 60		



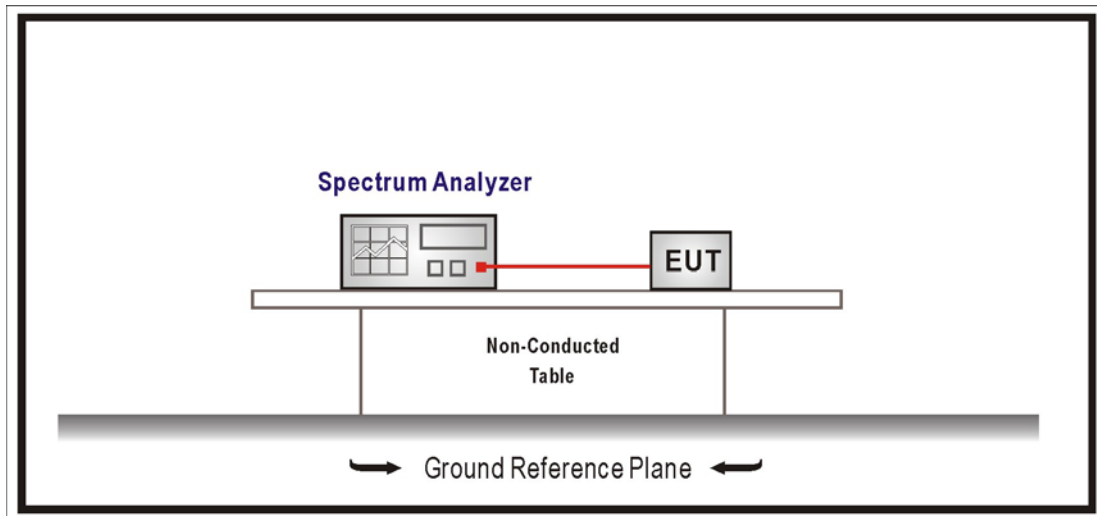
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	41.97	74.00	-32.03	27.52	14.45	PK
2	2390	41.54	74.00	-32.46	26.58	14.96	PK
! 3	2479.75	87.08	74.00	13.08	71.56	15.52	PK
4	2483.5	44.84	74.00	-29.16	29.29	15.55	PK
5	2487.183	45.93	74.00	-28.07	30.36	15.57	PK
6	2500	42.61	74.00	-31.39	26.97	15.64	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. 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
4. 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: ≥ 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 D01V05r02 for compliance to FCC 47CFR 15.247 requirements.

7.4. Test Specification

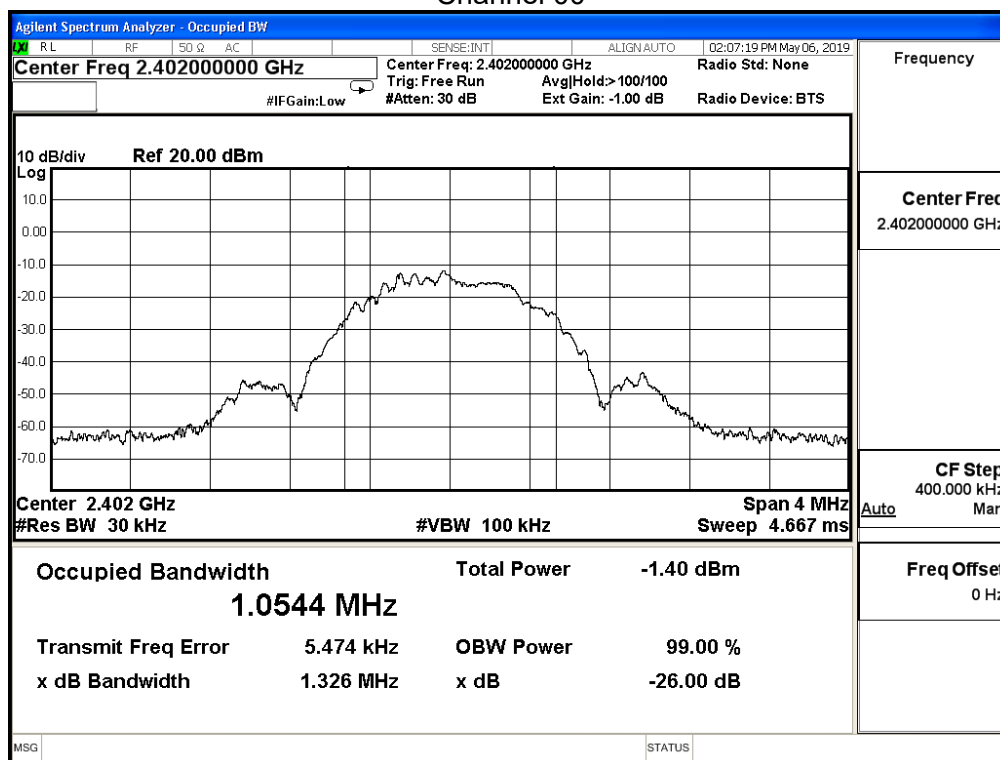
According to FCC Part 15 Subpart C Paragraph 15.247: 2019.

7.5. Test Result

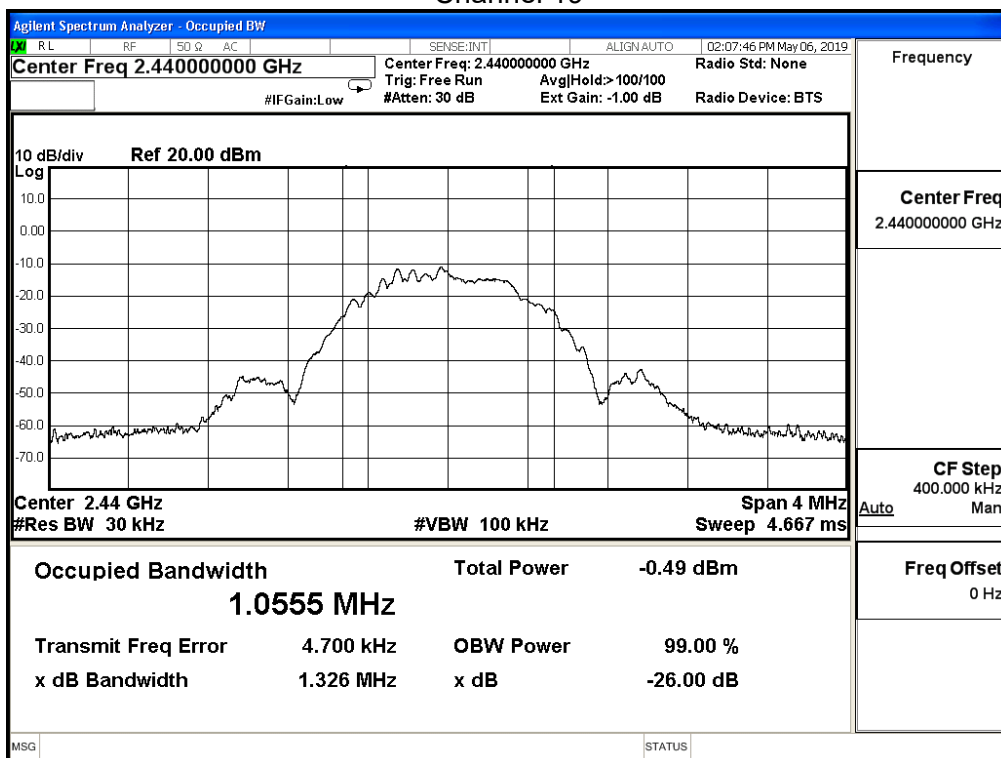
Product	LATTE ART PRINTER		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2019/05/06	Test Site	SR10-H
Test Temperature	25.1°C	Test Humidity	58.0%

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
00	2402	1.054	--
19	2440	1.055	--
39	2480	1.056	--

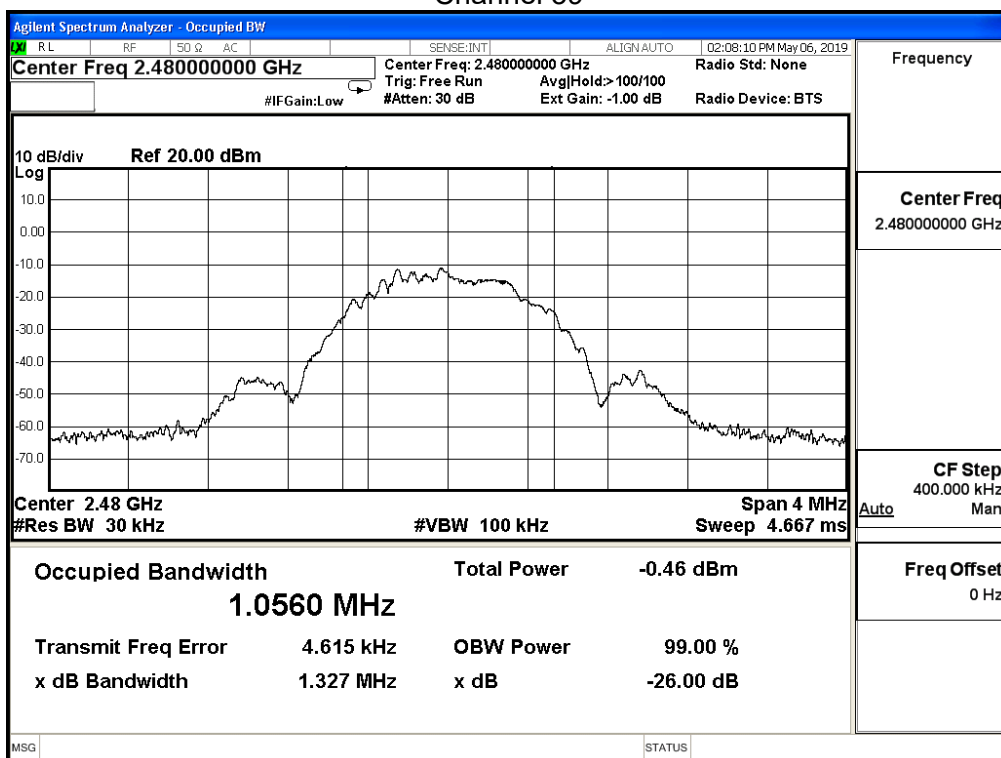
Channel 00



Channel 19



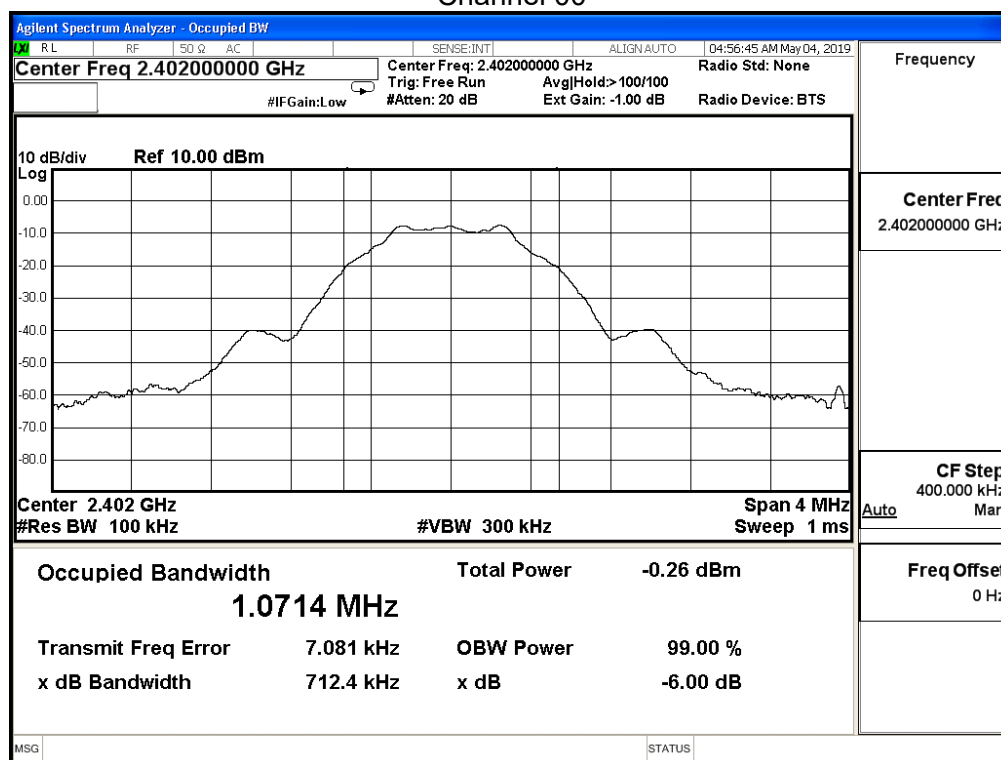
Channel 39



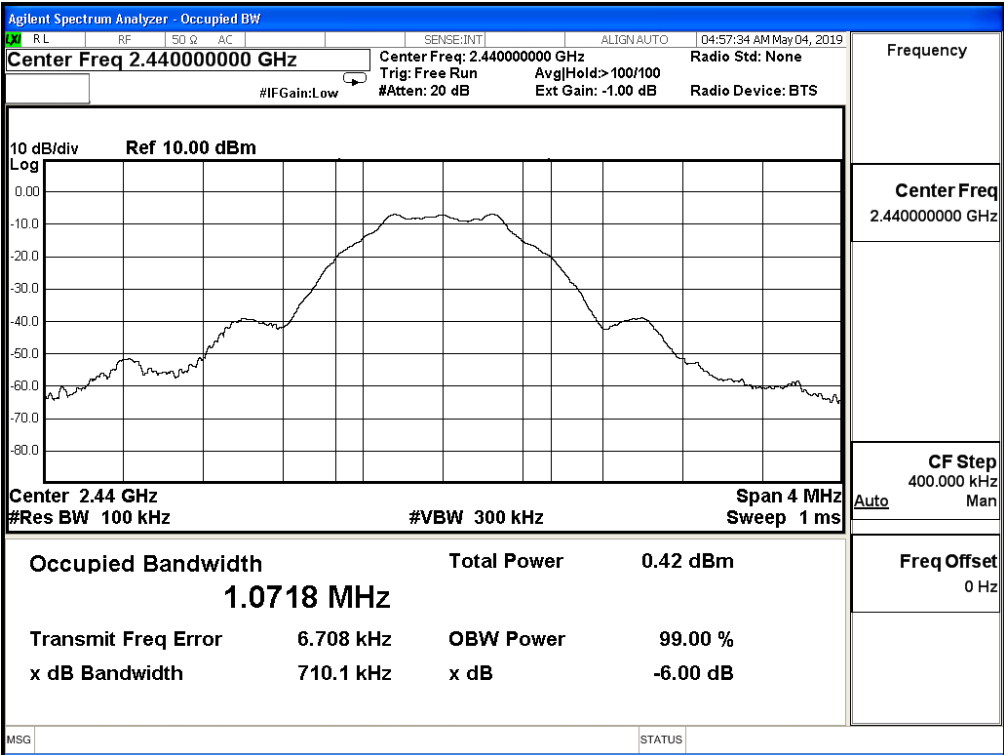
Product	LATTE ART PRINTER		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2019/05/04	Test Site	SR10-H
Test Temperature	23.4°C	Test Humidity	60.0%

Channel No.	Frequency (MHz)	Measure Level (kHz)	Limit (kHz)
00	2402	0.712	≥ 500
19	2440	0.710	≥ 500
39	2480	0.714	≥ 500

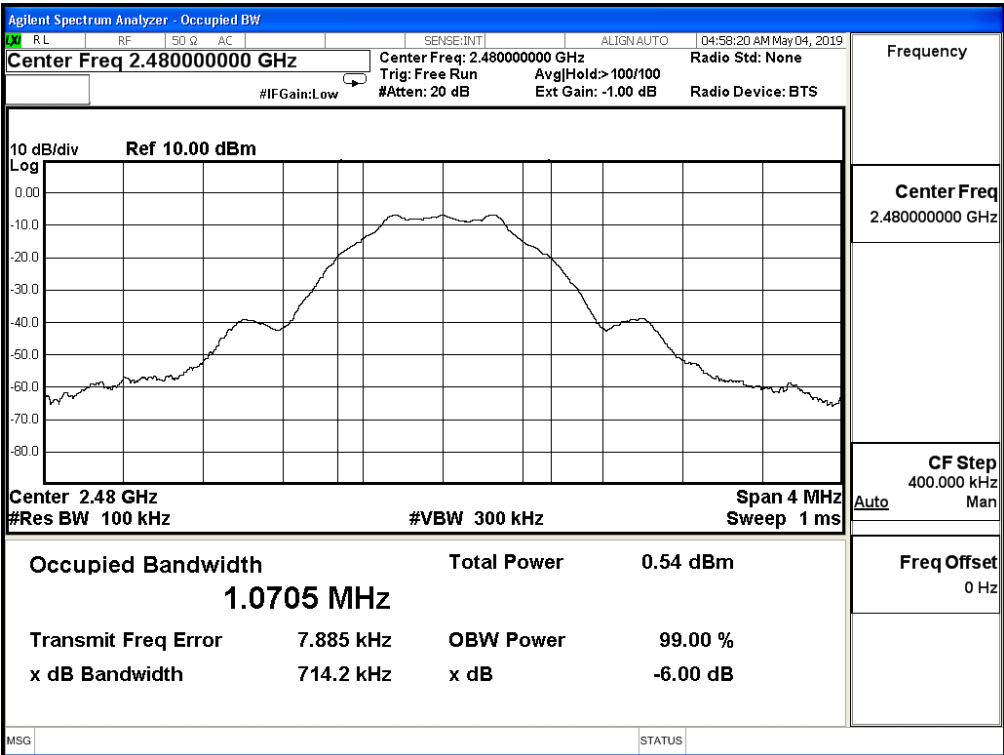
Channel 00



Channel 19

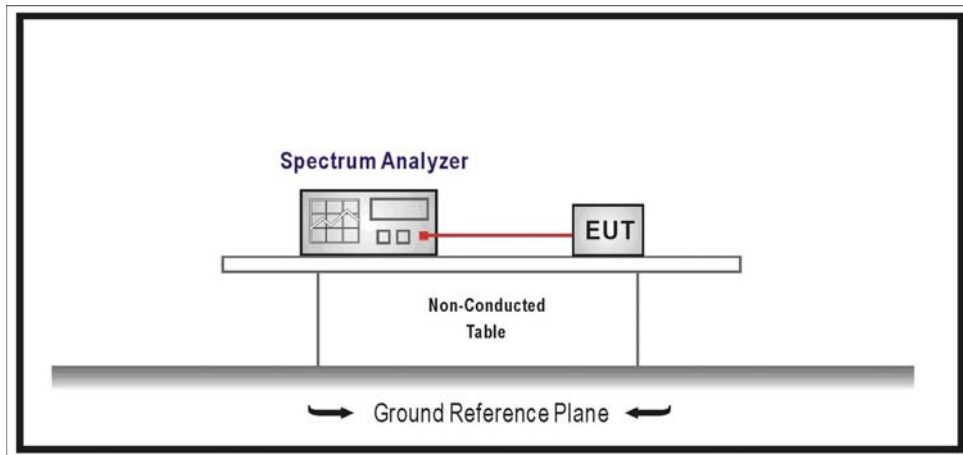


Channel 39



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 D01V05r02 for compliance to FCC 47CFR 15.247 requirements.

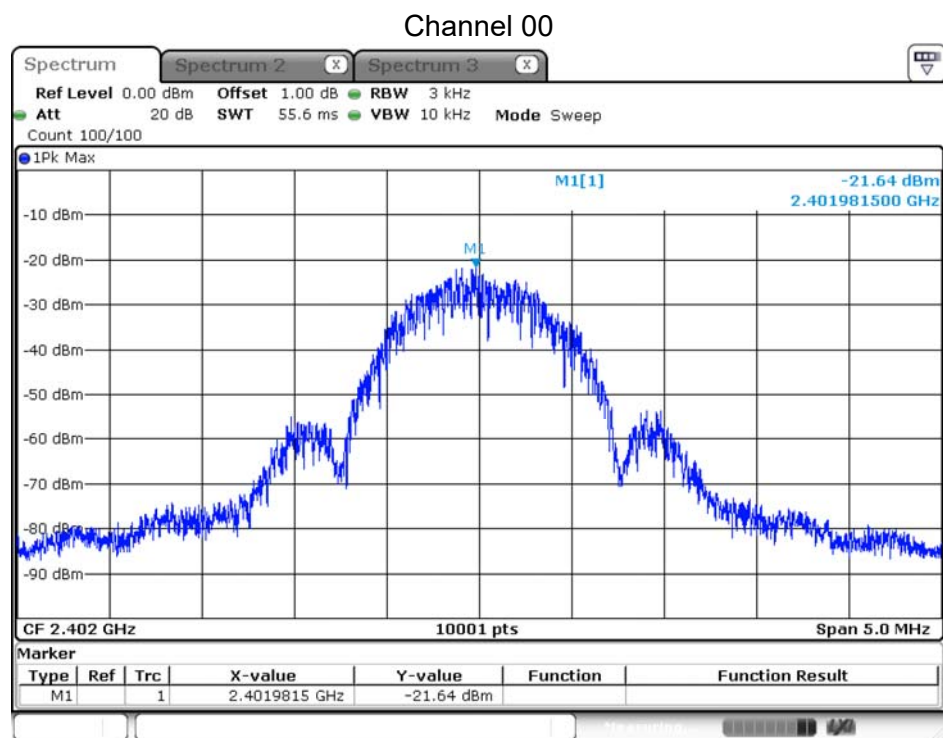
8.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019.

8.5. Test Result

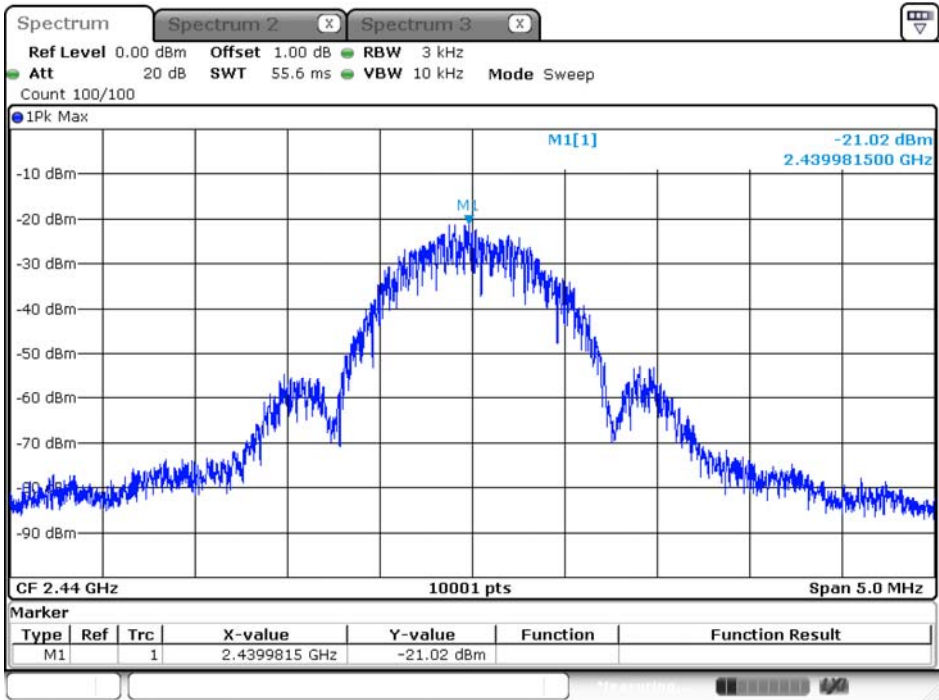
Product	LATTE ART PRINTER		
Test Item	Power Density		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2019/05/04	Test Site	SR10-H
Test Temperature	23.4°C	Test Humidity	60.0%

Channel No.	Frequency (MHz)	Measure Level (dBm/RBW)	Limit (dBm/3kHz)
00	2402	-21.64	≤ 8
19	2440	-21.02	≤ 8
39	2480	-21.19	≤ 8



Date: 4.MAY.2019 02:14:47

Channel 19



Channel 39

