

# FCC Test Report

Product Name : Smart Display

Trade Name : Verizon

Model No. : LVD1

FCC ID : NKR-LVD1-IDU

Applicant : Wistron NeWeb Corporation

Address : No. 20, Yuanqu 2nd Rd., Baoshan Township,,  
Hsinchu County 30844 Taiwan

Date of Receipt : May 06, 2021

Issued Date : Jun. 16, 2021

Report No. : 2150109R-E3032110108-A

Report Version : V1.0



The test results relate only to the samples tested.

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# Test Report Certification

Issued Date: Jun. 16, 2021

Report No. : 2150109R-E3032110108-A



Product Name : Smart Display  
Applicant : Wistron NeWeb Corporation  
Address : No. 20, Yuanqu 2nd Rd., Baoshan Township,, Hsinchu County  
30844 Taiwan  
Manufacturer : Wistron NeWeb Corporation  
Address : No. 20, Yuanqu 2nd Rd., Baoshan Township,, Hsinchu County  
30844 Taiwan  
Trade Name : Verizon  
Model No. : LVD1  
FCC ID : NKR-LVD1-IDU  
EUT Voltage : 12 Vdc( from adapter)  
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 :



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( Demi Chang / Senior Engineering Adm. Specialist )

Tested By :



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( Scott Chang / Senior Engineer )

Approved By :



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( Louis Hsu / Deputy Manager )

**Revision History**

<b>Version</b>	<b>Description</b>	<b>Issued Date</b>
V1.0	Initial issue of report	Jun. 16, 2021

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## 1. General Information

### 1.1. EUT Description

Product Name	Smart Display
Trade Name	Verizon
Model No.	LVD1
Frequency Range	2402~2480MHz
Channel Number	40 Channels
Type of Modulation	GFSK

Antenna Information	
MFR.	WNC
Model No.	N/A
Antenna Type	PCB Antenna
Antenna Gain	3.21 dBi

Accessories Information	
Power Adapter 1	Delta, ADP-36DW B I/P: 100-120V~60Hz, 0.9A O/P: 12Vdc, 3.0A Cable Out: Shielded, 1.8m
Power Adapter 2	Lucent Trans, 1A100-US1230 I/P: 100-120V~60Hz, 0.9A O/P: 12Vdc, 3.0A Cable Out: 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 Smart Display including 2.4GHz b/g/n/ac and 5GHz a/n/ac and BT2.0 & BT 5.0 transmitting and receiving functions.
2. The device contains certified module (Brand: WNC, M/N: IMQ7, FCC ID: NKRIMQ7).
3. Regards to the frequency band operation; the lowest , middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. The 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_Adapter_ADP-36DW B Mode 2: Transmit_Adapter_1A100-US1230
-----------	--

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

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

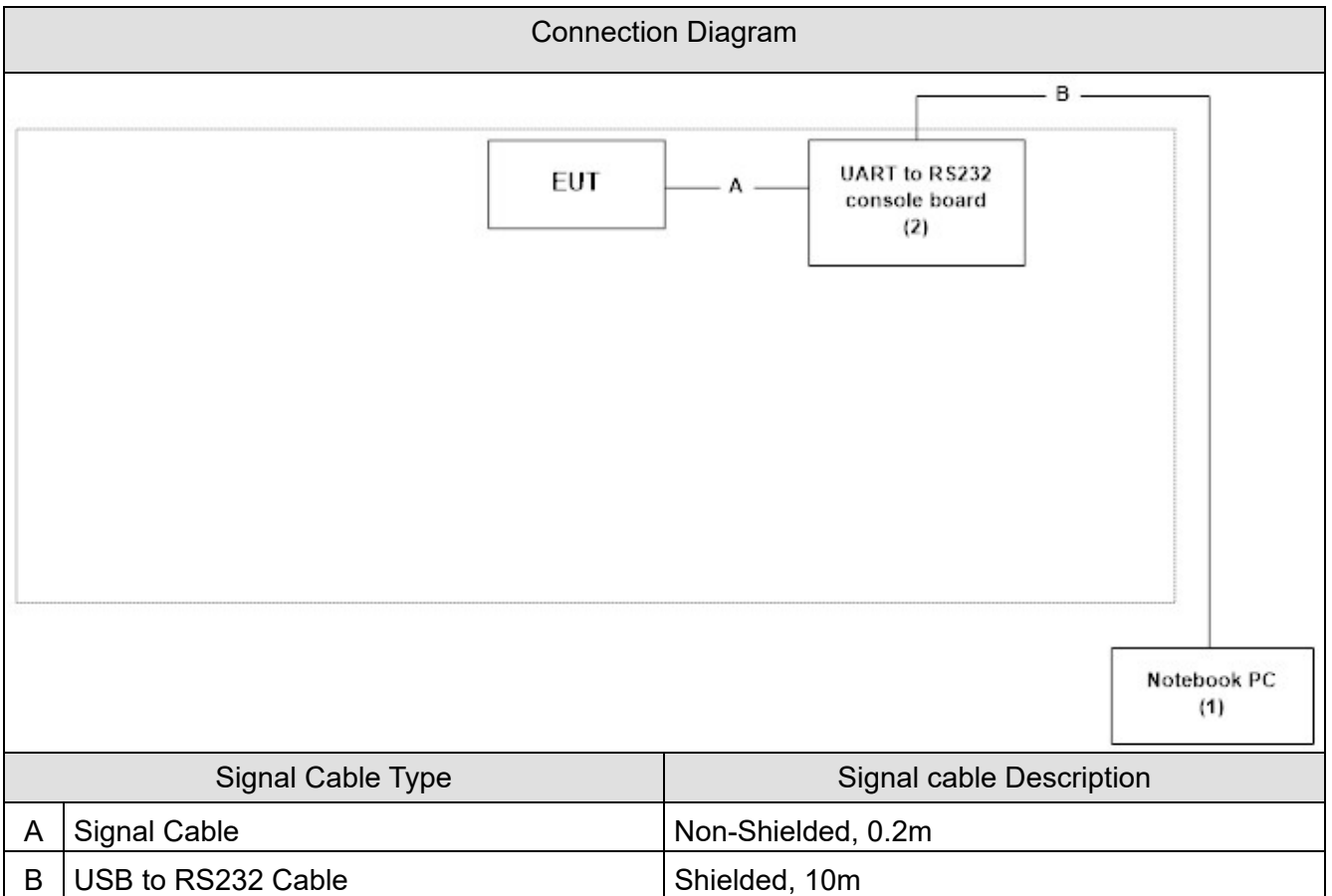


### 1.3. Tested System Details

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	Lenove	80SJ	MP16Z7TB	DoC	Shielded, 1.8m
2   UART to RS232 console board	WNC	48.J53RS.SGA	--	DoC	--

### 1.4. Configuration of tested System



### 1.5. EUT Exercise Software

1	Set the EUT as shown.
2	Execute control command by software "TeraTerm".
3	Configure test mode, test channel and data rate.
4	Let the EUT start transmitting signal continuously.
5	Verify that device is working properly.

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## **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 Bandedge	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

<b>USA</b>	<b>:</b>	<b>FCC Registration Number: TW3024</b>
<b>Canada</b>	<b>:</b>	<b>IC Registration Number: 22397-1 / 22397-2 / 22397-3</b>

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	<ol style="list-style-type: none"> <li>No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.</li> <li>No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.</li> </ol>
Phone number	<ol style="list-style-type: none"> <li>+886-3-582-8001</li> <li>+886-3-582-8001</li> </ol>
Fax number	<ol style="list-style-type: none"> <li>+886-3-582-8958</li> <li>+886-3-582-8958</li> </ol>
Email address	<a href="mailto:info.tw@dekra.com">info.tw@dekra.com</a>
Website	<a href="http://www.dekra.com.tw">http://www.dekra.com.tw</a>

## 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	2020/12/24	2021/12/23
Test Receiver	R&S	ESCS 30	836858/022	2021/02/22	2022/02/21
LISN	R&S	ENV216	100092	2020/06/22	2021/06/21

### Maximum peak conducted output power / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2020/11/30	2021/11/29
Pulse Power Sensor	Anritsu	MA2411B	1531043	2020/11/30	2021/11/29
Pulse Power Sensor	Anritsu	MA2411B	1531044	2020/11/30	2021/11/29
Power Meter	Keysight	8990B	MY51000248	2020/05/20	2021/05/19
Power Sensor	Keysight	N1923A	MY57240005	2020/05/20	2021/05/19

### Radiated Emission / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30
Signal Analyzer	R&S	FSVA40	101435	2020/06/24	2021/06/23
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Bilog Antenna	Teseq	CBL6112D	23191	2021/02/26	2022/02/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2020/06/04	2021/06/03
Horn Antenna	Schwarzbeck	BBHA 9170	202	2020/12/16	2021/12/15
Pre-Amplifier	EMCI	EMC01820I	980365	2020/06/19	2021/06/18
Pre-Amplifier	EMEC	EM01G18GA	060741	2020/07/24	2021/07/23
Pre-Amplifier	DEKRA	AP-400C	201801231	2020/11/16	2021/11/15
Band Reject Filter	Micro-Tronics	BRM50702	G258	2020/12/16	2021/12/15
Wideband Radio Communication Tester	R&S	CMW500	106071	2021/01/27	2022/01/26
Wireless Conn. Tseter	R&S	CMW500	157118	2020/07/23	2021/07/22
Coaxial Cable(13m)	Huber+Suhner	SF104	CB2-H	2020/07/25	2021/07/24
DEKRA Testing System	DEKRA	Version 2.0	CB2-H	NA	NA

## RF antenna conducted test / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2021/03/29	2022/03/28
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30

## Bandedge / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30
Signal Analyzer	R&S	FSVA40	101435	2020/06/24	2021/06/23
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Bilog Antenna	Teseq	CBL6112D	23191	2021/02/26	2022/02/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2020/06/04	2021/06/03
Horn Antenna	Schwarzbeck	BBHA 9170	202	2020/12/16	2021/12/15
Pre-Amplifier	EMCI	EMC01820I	980365	2020/06/19	2021/06/18
Pre-Amplifier	EMEC	EM01G18GA	060741	2020/07/24	2021/07/23
Pre-Amplifier	DEKRA	AP-400C	201801231	2020/11/16	2021/11/15
Band Reject Filter	Micro-Tronics	BRM50702	G258	2020/12/16	2021/12/15
Wideband Radio Communication Tester	R&S	CMW500	106071	2021/01/27	2022/01/26
Wireless Conn. Tseter	R&S	CMW500	157118	2020/07/23	2021/07/22
Coaxial Cable(13m)	Huber+Suhner	SF104	CB2-H	2020/07/25	2021/07/24
DEKRA Testing System	DEKRA	Version 2.0	CB2-H	NA	NA

## Occupied Bandwidth &amp; DTS Bandwidth / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2021/03/29	2022/03/28
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30

## Power Density / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2021/03/29	2022/03/28
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30

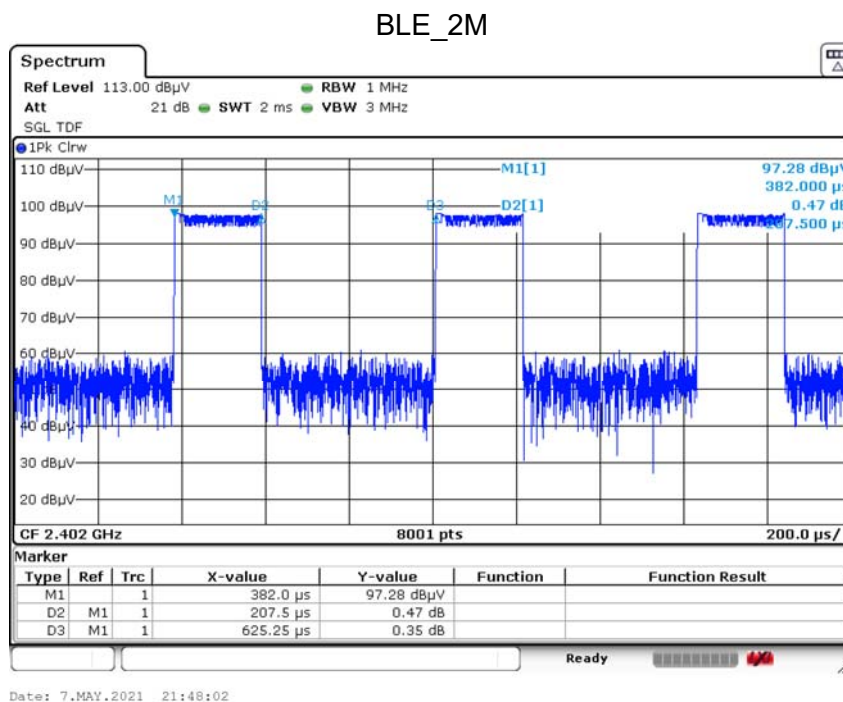
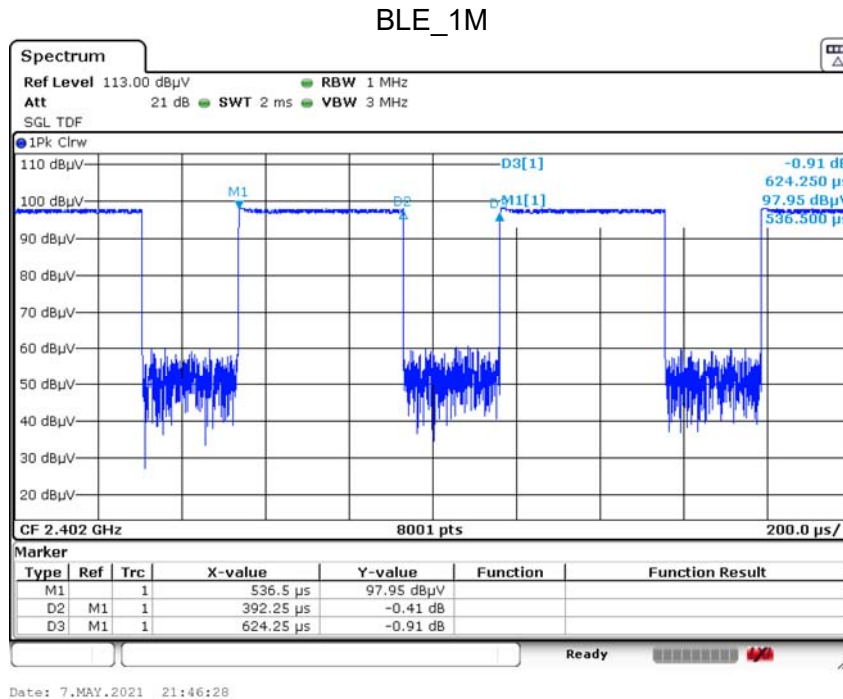
Note: All equipment upon which need to calibrated are with calibration period of 1 year.

## 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
Bandedge	$\pm 1.27$ dB
Occupied Bandwidth & DTS Bandwidth	$\pm 50$ Hz
Power Density	$\pm 1.27$ dB

### 1.10. Duty cycle

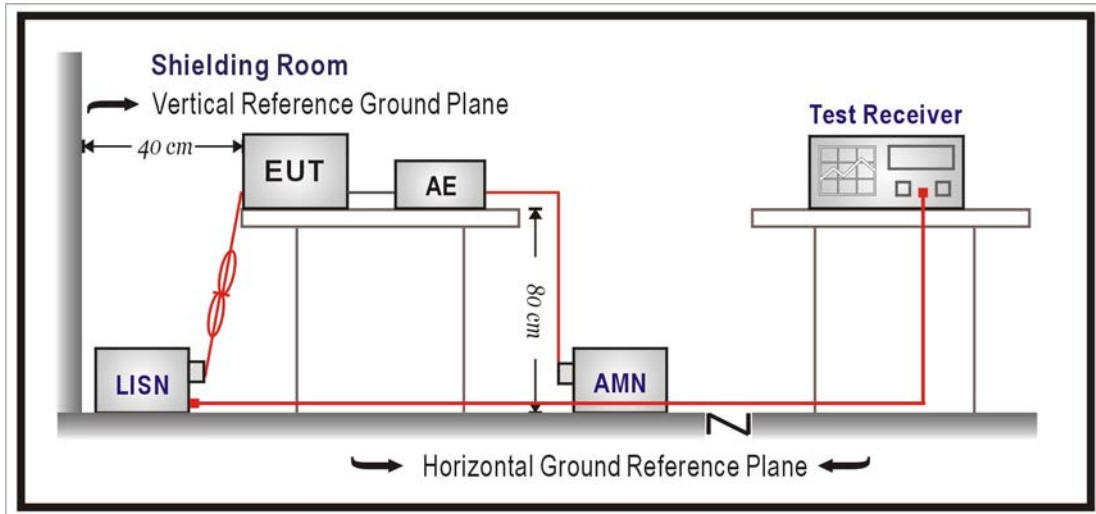
Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor(dB) linear voltage	Duty Factor(dB) Power	1/T Minimum VBW (kHz)
BLE_1M	0.392	0.624	62.82%	4.037970	2.02	2.551
BLE_2M	0.207	0.625	33.12%	9.598193	4.80	4.831





## 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 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.

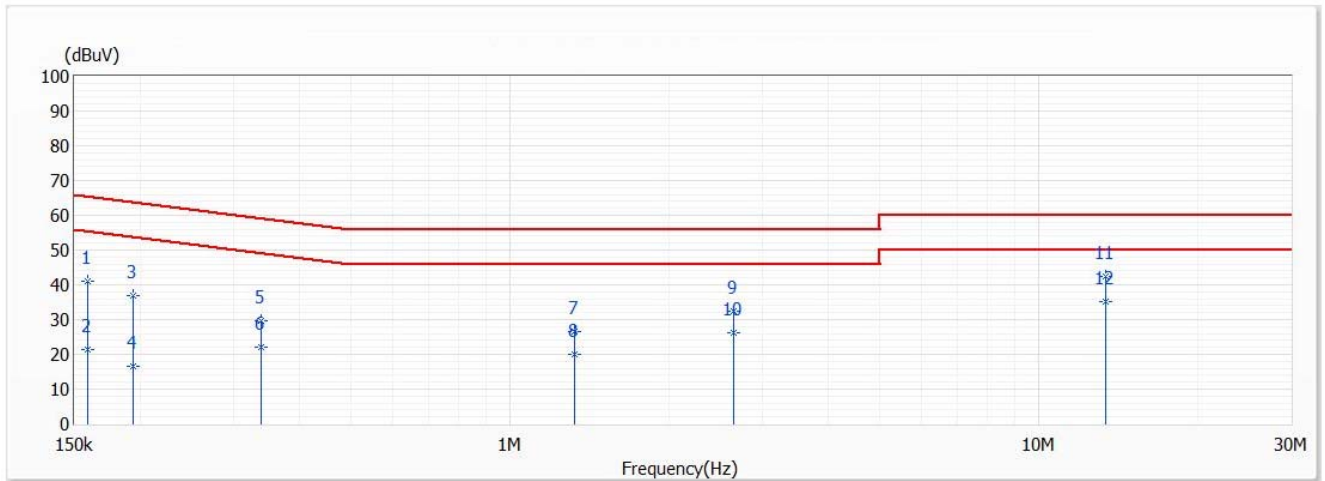
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9KHz.

### **2.4. Test Specification**

According to FCC Part 15 Subpart C Paragraph 15.207: 2019

## 2.5. Test Result

Model No	LVD1	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/25
Test Mode	Mode 1: Transmit_Adapter_ADP-36DW B	Engineer	Lion Wang
Phase	L	Temperature (°C)	26.7
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	57.8

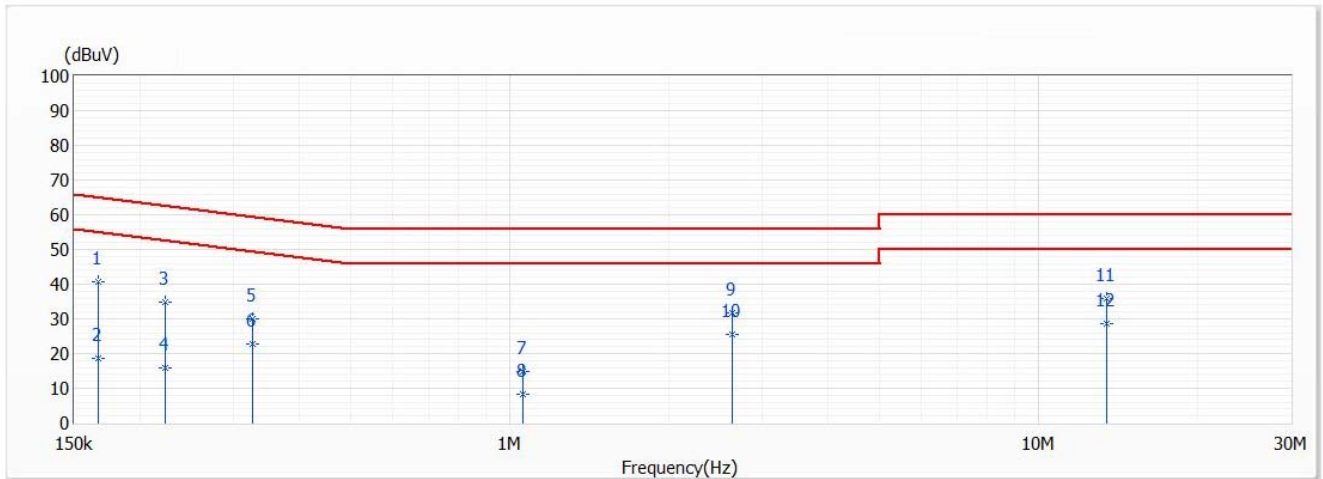


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.158	41.01	65.55	-24.54	31.36	9.65	QP
2	0.158	21.21	55.55	-34.34	11.56	9.65	AV
3	0.194	36.80	63.86	-27.06	27.15	9.65	QP
4	0.194	16.60	53.86	-37.26	6.95	9.65	AV
5	0.338	29.61	59.25	-29.64	19.94	9.67	QP
6	0.338	22.21	49.25	-27.04	12.54	9.67	AV
7	1.321	26.39	56.00	-29.61	16.63	9.76	QP
8	1.321	20.04	46.00	-25.96	10.28	9.76	AV
9	2.641	32.52	56.00	-23.48	22.69	9.83	QP
10	2.641	26.09	46.00	-19.91	16.26	9.83	AV
11	13.376	42.36	60.00	-17.64	32.14	10.22	QP
*12	13.376	35.31	50.00	-14.69	25.09	10.22	AV

Remark:

1. "\*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Model No	LVD1	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/25
Test Mode	Mode 1: Transmit_Adapter_ADP-36DW B	Engineer	Lion Wang
Phase	N	Temperature (°C)	26.7
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	57.8

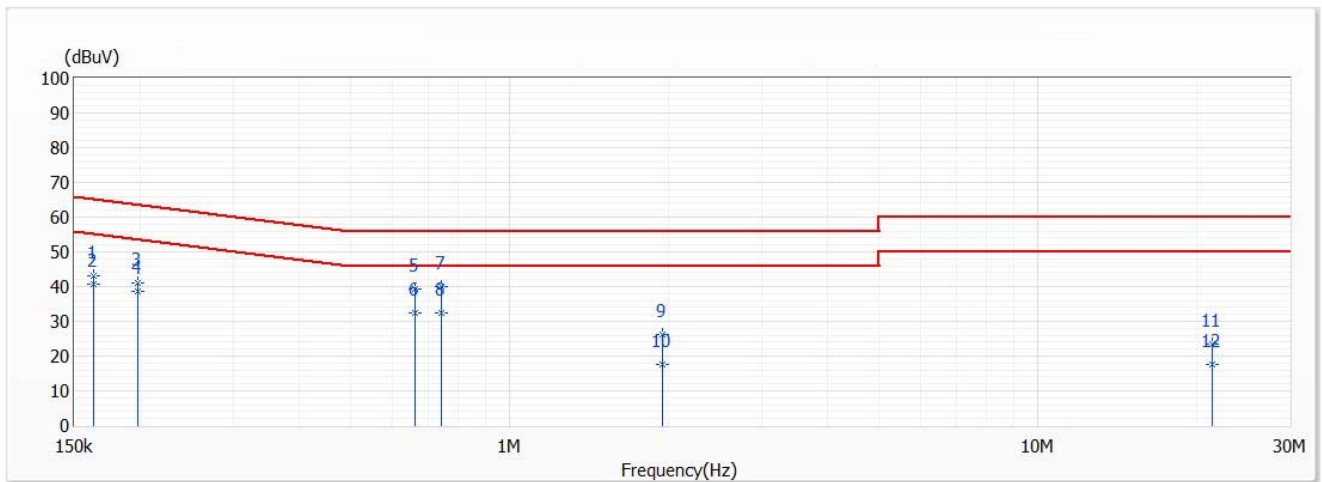


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.166	40.58	65.15	-24.57	30.94	9.64	QP
2	0.166	18.75	55.15	-36.40	9.11	9.64	AV
3	0.223	34.91	62.72	-27.81	25.27	9.64	QP
4	0.223	15.88	52.72	-36.84	6.24	9.64	AV
5	0.326	30.17	59.55	-29.38	20.51	9.66	QP
6	0.326	22.59	49.55	-26.96	12.93	9.66	AV
7	1.057	14.79	56.00	-41.21	5.07	9.72	QP
8	1.057	8.40	46.00	-37.60	-1.32	9.72	AV
9	2.640	31.76	56.00	-24.24	21.94	9.82	QP
*10	2.640	25.40	46.00	-20.60	15.58	9.82	AV
11	13.447	35.84	60.00	-24.16	25.56	10.28	QP
12	13.447	28.58	50.00	-21.42	18.30	10.28	AV

Remark:

1. "\*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Model No	LVD1	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/25
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Lion Wang
Phase	L	Temperature (°C)	26.7
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	57.8

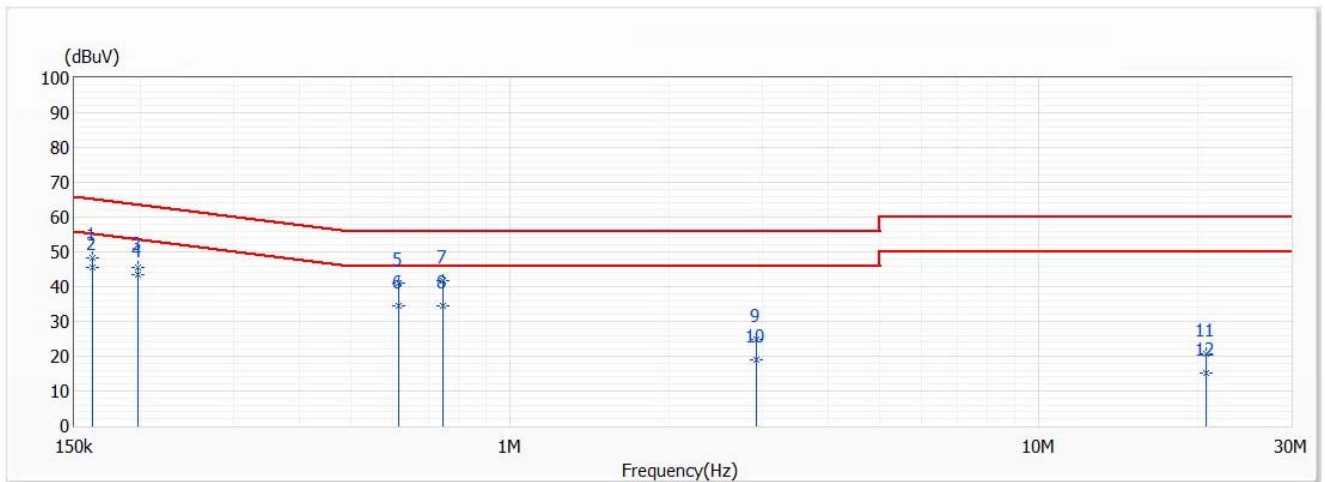


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.163	43.15	65.32	-22.17	33.50	9.65	QP
2	0.163	40.71	55.32	-14.61	31.06	9.65	AV
3	0.198	40.99	63.71	-22.72	31.34	9.65	QP
4	0.198	38.49	53.71	-15.22	28.84	9.65	AV
5	0.661	39.26	56.00	-16.74	29.56	9.70	QP
*6	0.661	32.43	46.00	-13.57	22.73	9.70	AV
7	0.744	40.04	56.00	-15.96	30.32	9.72	QP
8	0.744	32.41	46.00	-13.59	22.69	9.72	AV
9	1.946	26.15	56.00	-29.85	16.36	9.79	QP
10	1.946	17.60	46.00	-28.40	7.81	9.79	AV
11	21.331	23.50	60.00	-36.50	13.10	10.40	QP
12	21.331	17.47	50.00	-32.53	7.07	10.40	AV

Remark:

1. "\*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Model No	LVD1	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/25
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Lion Wang
Phase	N	Temperature (°C)	26.7
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	57.8



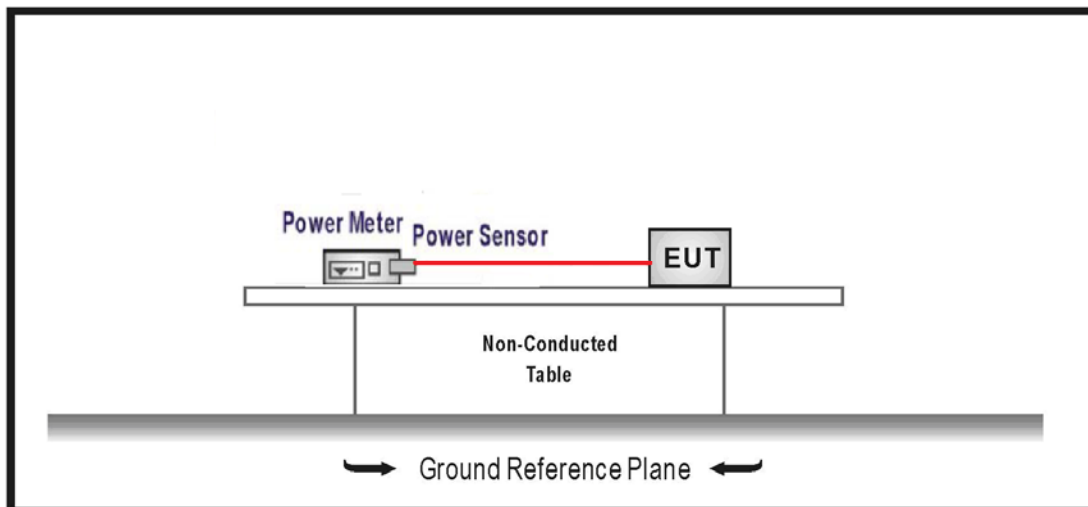
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.162	48.28	65.34	-17.06	38.64	9.64	QP
*2	0.162	45.40	55.34	-9.94	35.76	9.64	AV
3	0.197	45.64	63.72	-18.08	36.00	9.64	QP
4	0.197	43.30	53.72	-10.42	33.66	9.64	AV
5	0.617	41.13	56.00	-14.87	31.44	9.69	QP
6	0.617	34.46	46.00	-11.54	24.77	9.69	AV
7	0.747	41.68	56.00	-14.32	31.98	9.70	QP
8	0.747	34.51	46.00	-11.49	24.81	9.70	AV
9	2.925	24.88	56.00	-31.12	15.05	9.83	QP
10	2.925	18.99	46.00	-27.01	9.16	9.83	AV
11	20.755	20.86	60.00	-39.14	10.31	10.55	QP
12	20.755	15.23	50.00	-34.77	4.68	10.55	AV

Remark:

1. "\*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

### 3. Maximum peak conducted output power

#### 3.1. Test Setup



#### 3.2. Limits

The maximum peak conducted output power shall be less 1 Watt.

#### 3.3. Test procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074 D01V05r02 for compliance to FCC 47CFR 15.247 requirements.

#### 3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019

### 3.5. Test Result

Product	Smart Display		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230		
Date of Test	2021/05/12	Test Site	SR12-H
Temperature(°C)	24.0	Humidity (%RH)	68.0

#### GFSK\_1M

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
00	2402	4.070	≤30
19	2440	4.150	≤30
39	2480	3.930	≤30

#### GFSK\_2M

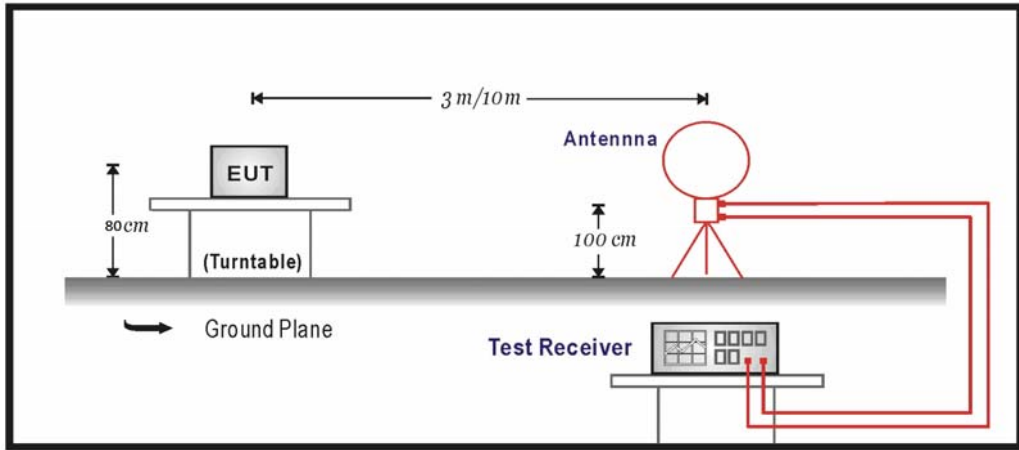
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
00	2402	4.110	≤30
19	2440	4.200	≤30
39	2480	3.990	≤30



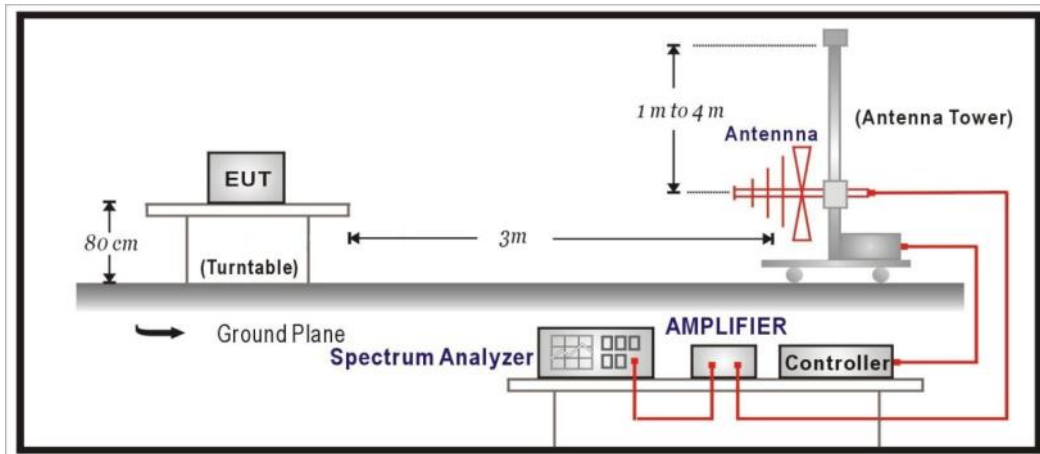
## 4. Radiated Emission

### 4.1. Test Setup

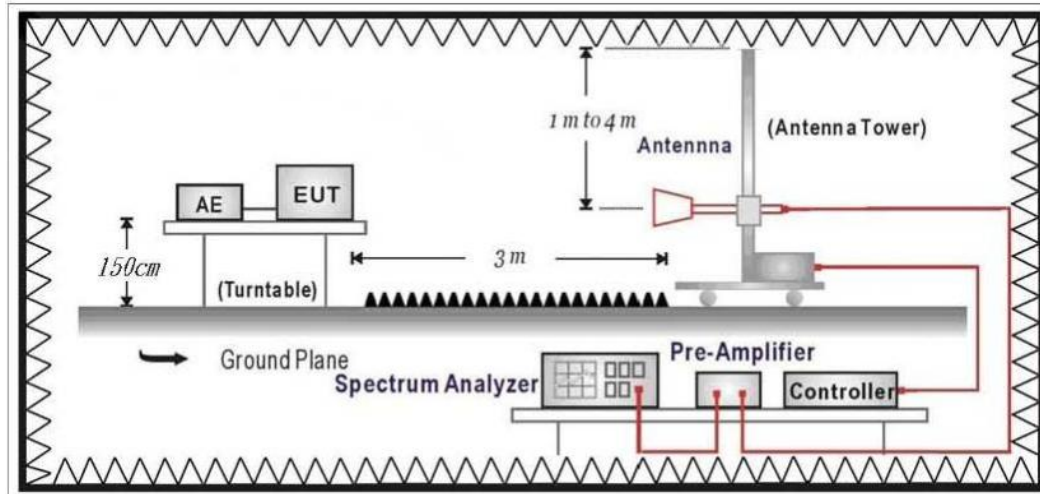
Under 30MHz Test Setup:



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.

<b>FCC Part 15 Subpart C Paragraph 15.209 Limits</b>		
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 Bandedges.
  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 KDB 558074 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.

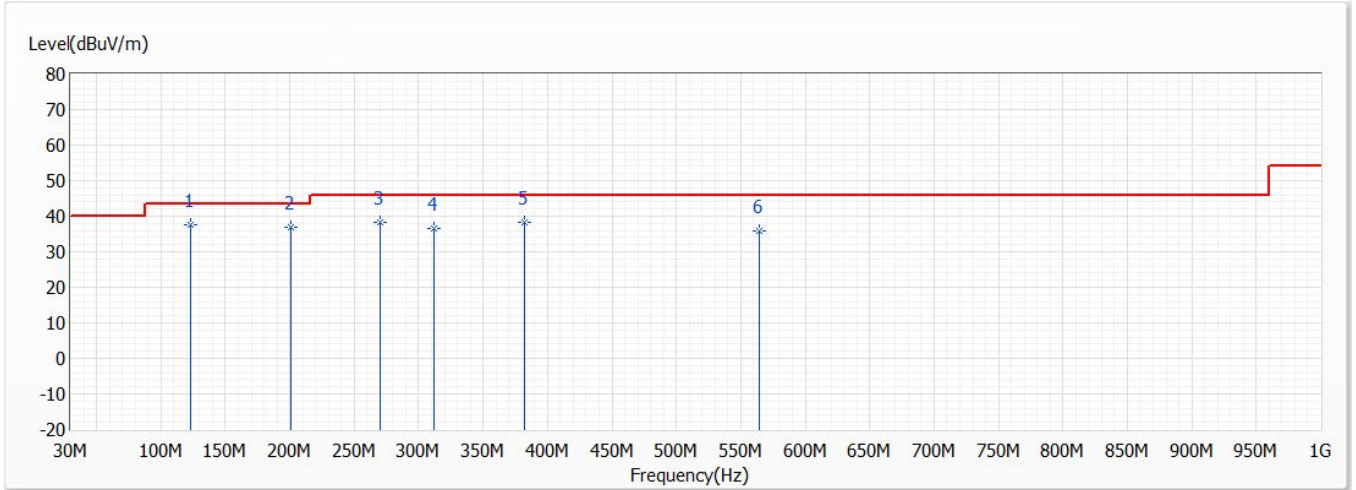
### 4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019

### 4.5. Test Result

#### 30MHz-1GHz Spurious

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/25
Test Mode	Mode 1: Transmit_Adapter_ADP-36DW B	Engineer	Scott Chang
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	66.0

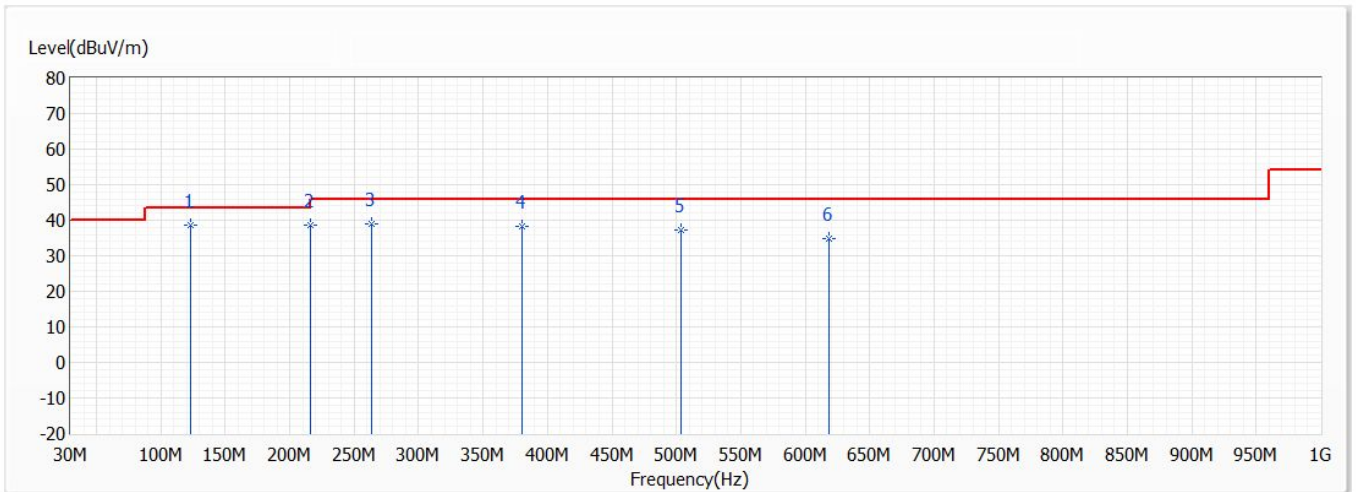


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	122.635	37.57	43.50	-5.93	40.02	-2.45	QP
2	201.205	36.96	43.50	-6.54	41.73	-4.77	QP
3	270.075	38.12	46.00	-7.88	39.83	-1.71	QP
4	311.785	36.51	46.00	-9.49	37.35	-0.84	QP
5	382.110	38.14	46.00	-7.86	36.69	1.45	QP
6	563.985	35.78	46.00	-10.22	31.18	4.60	QP

Note:

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

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/25
Test Mode	Mode 1: Transmit_Adapter_ADP-36DW B	Engineer	Scott Chang
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	66.0

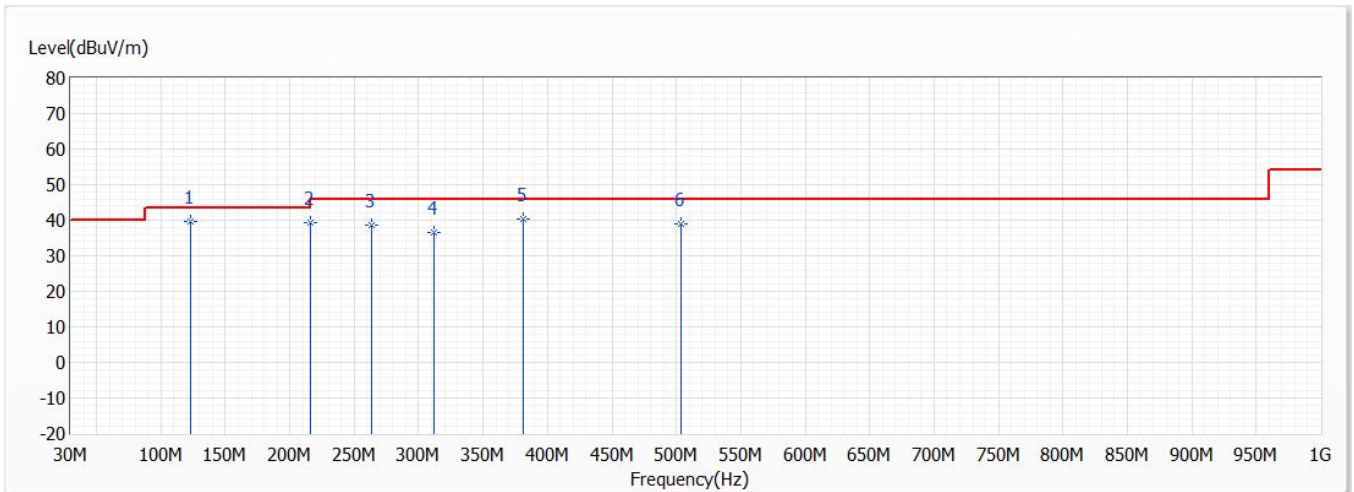


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	122.635	38.62	43.50	-4.88	41.07	-2.45	QP
* 2	215.755	38.66	43.50	-4.84	42.62	-3.96	QP
3	263.770	38.93	46.00	-7.07	40.75	-1.82	QP
4	380.655	38.33	46.00	-7.67	36.93	1.40	QP
5	503.845	37.31	46.00	-8.69	33.49	3.82	QP
6	618.790	34.85	46.00	-11.15	29.58	5.27	QP

Note:

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

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/24
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Scott Chang
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	66.0

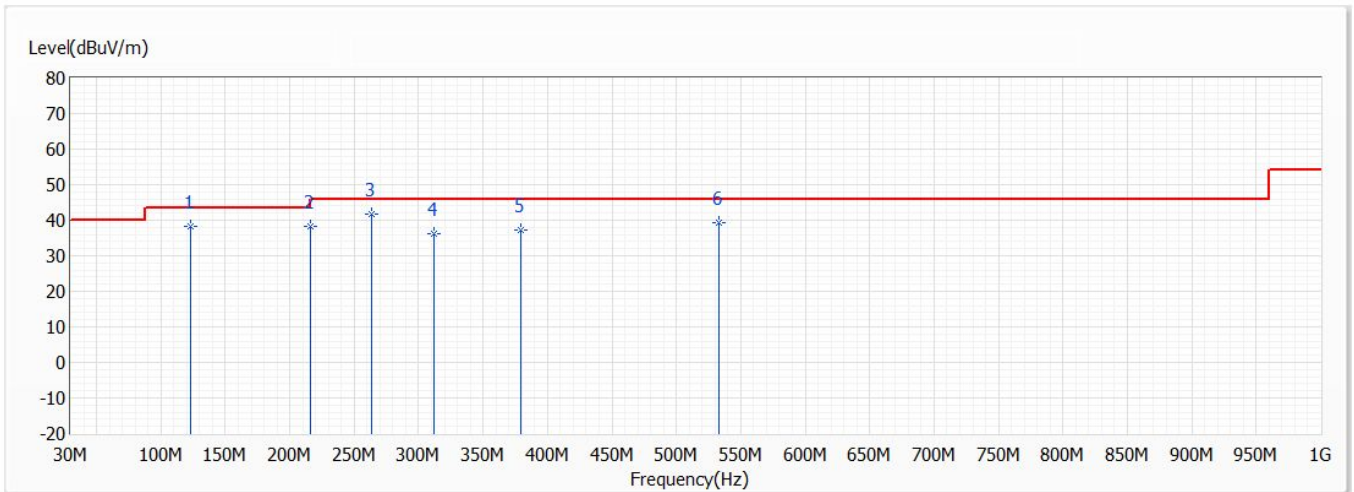


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	122.635	39.49	43.50	-4.01	41.94	-2.45	QP
2	215.755	39.33	43.50	-4.17	43.29	-3.96	QP
3	263.770	38.73	46.00	-7.27	40.55	-1.82	QP
4	311.785	36.47	46.00	-9.53	37.31	-0.84	QP
5	381.625	40.51	46.00	-5.49	39.07	1.44	QP
6	503.845	38.83	46.00	-7.17	35.01	3.82	QP

Note:

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

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/24
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Scott Chang
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	66.0



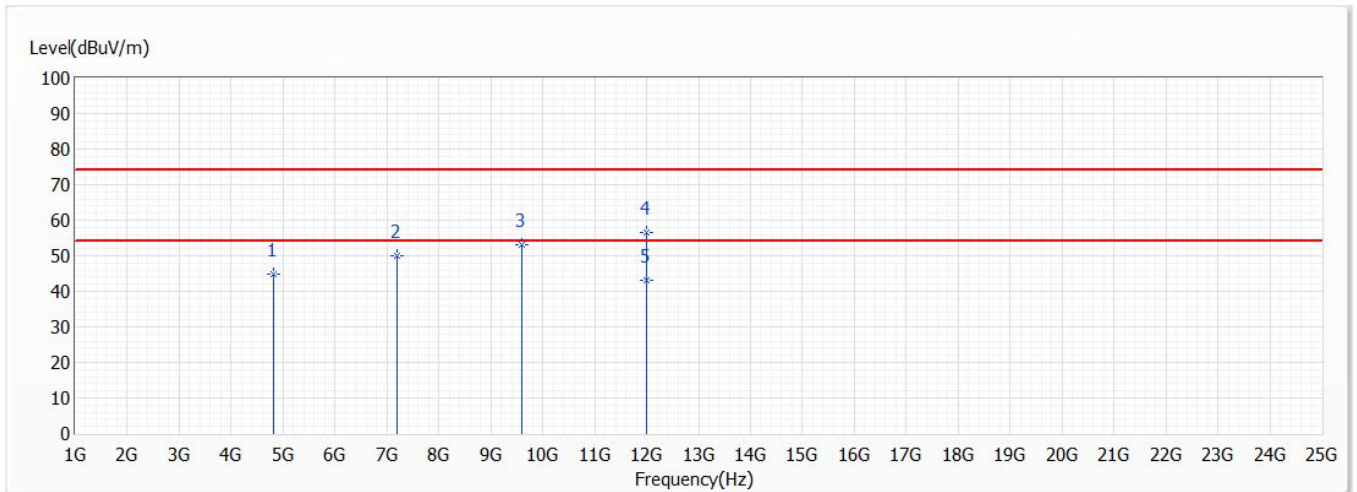
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	122.635	38.24	43.50	-5.26	40.69	-2.45	QP
2	215.755	38.36	43.50	-5.14	42.32	-3.96	QP
* 3	263.770	41.63	46.00	-4.37	43.45	-1.82	QP
4	311.785	36.18	46.00	-9.82	37.02	-0.84	QP
5	379.685	37.33	46.00	-8.67	35.96	1.37	QP
6	533.430	39.45	46.00	-6.55	35.25	4.20	QP

Note:

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

**Harmonic & Spurious:**

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	63.0



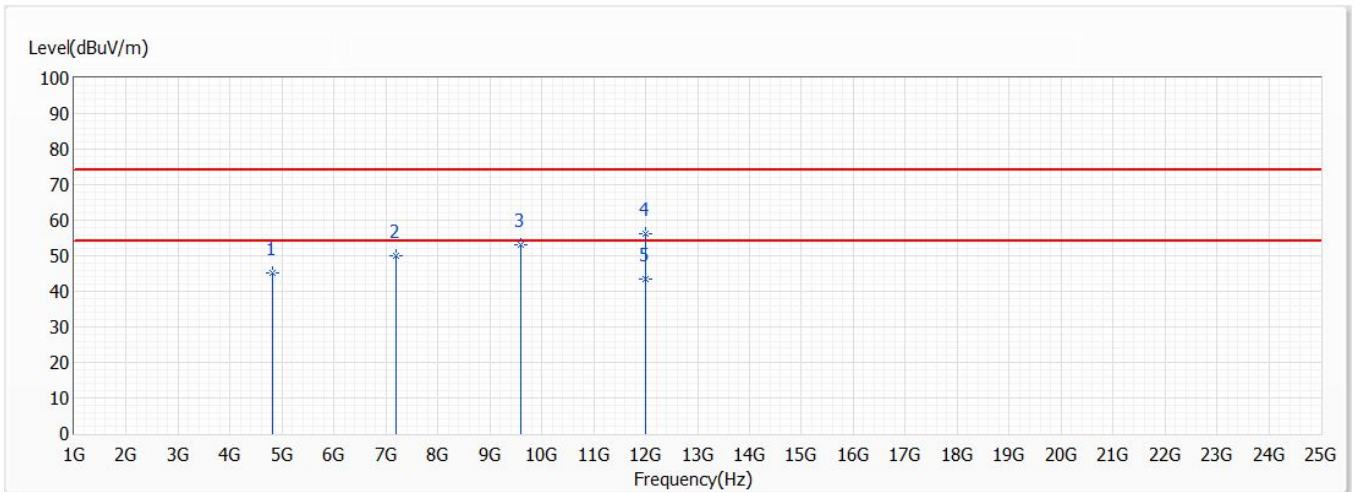
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	44.94	74.00	-29.06	56.97	-12.03	PK
2	7206.000	49.92	74.00	-24.08	54.60	-4.68	PK
3	9608.000	53.09	74.00	-20.91	54.42	-1.33	PK
4	12010.000	56.40	74.00	-17.60	53.59	2.81	PK
* 5	12010.000	43.17	54.00	-10.83	40.36	2.81	AV

**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.



Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	63.0

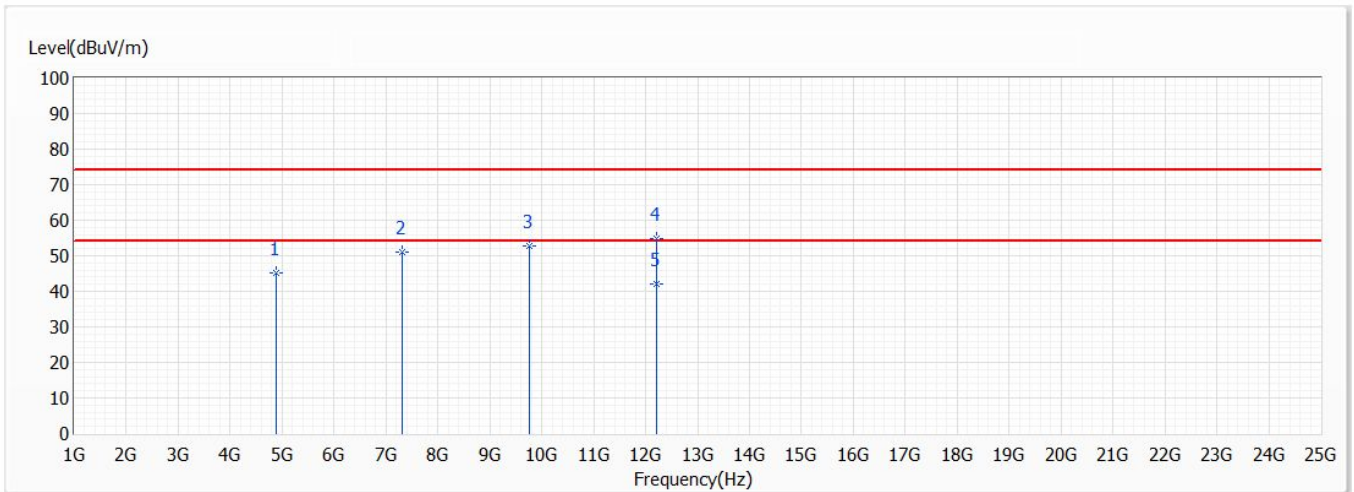


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	45.22	74.00	-28.78	57.25	-12.03	PK
2	7206.000	50.16	74.00	-23.84	54.84	-4.68	PK
3	9608.000	53.06	74.00	-20.94	54.39	-1.33	PK
4	12010.000	56.09	74.00	-17.91	53.28	2.81	PK
* 5	12010.000	43.42	54.00	-10.58	40.61	2.81	AV

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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW1M	Humidity (%RH)	63.0

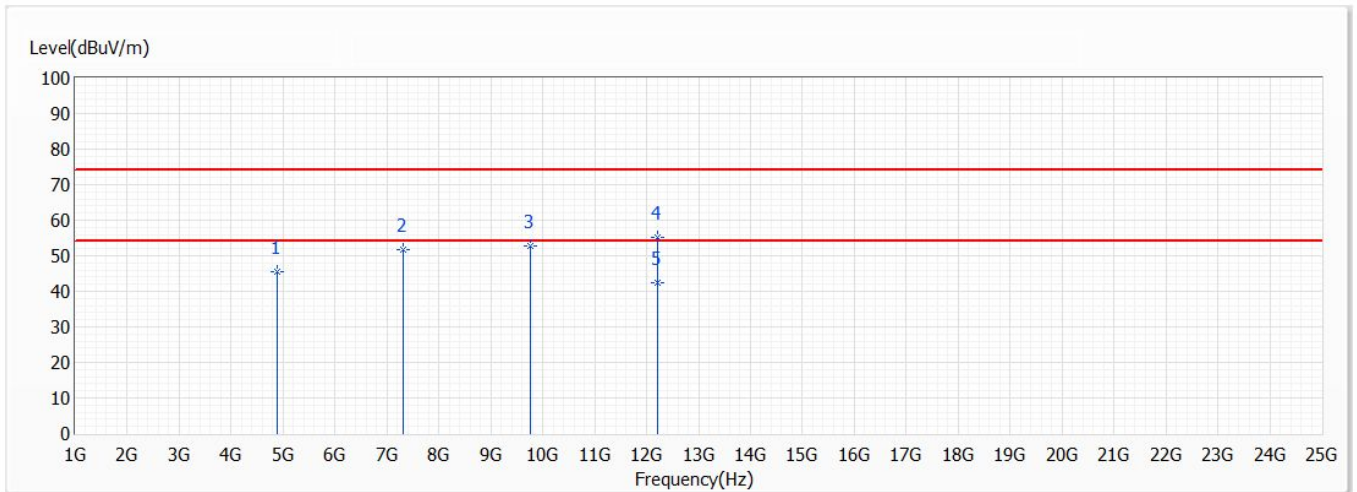


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	45.20	74.00	-28.80	57.03	-11.83	PK
2	7320.000	51.04	74.00	-22.96	55.39	-4.35	PK
3	9760.000	52.79	74.00	-21.21	54.06	-1.27	PK
4	12200.000	54.96	74.00	-19.04	52.38	2.58	PK
* 5	12200.000	42.06	54.00	-11.94	39.48	2.58	AV

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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW1M	Humidity (%RH)	63.0

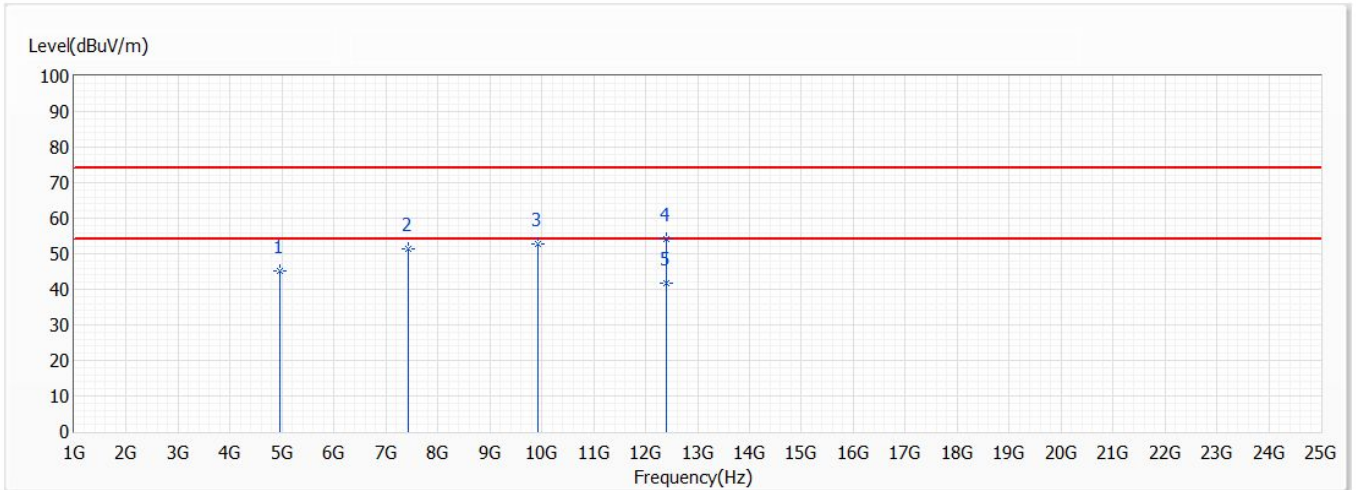


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	45.68	74.00	-28.32	57.51	-11.83	PK
2	7320.000	51.77	74.00	-22.23	56.12	-4.35	PK
3	9760.000	52.84	74.00	-21.16	54.11	-1.27	PK
4	12200.000	55.14	74.00	-18.86	52.56	2.58	PK
* 5	12200.000	42.37	54.00	-11.63	39.79	2.58	AV

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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW1M	Humidity (%RH)	63.0

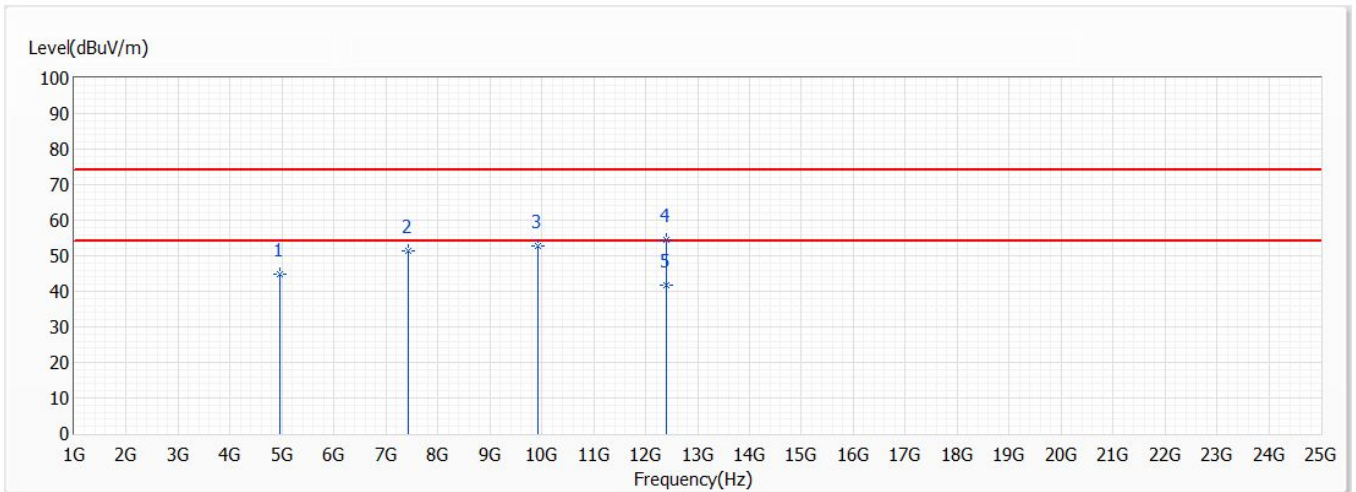


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4960.000	45.25	74.00	-28.75	56.85	-11.60	PK
2	7440.000	51.50	74.00	-22.50	55.51	-4.01	PK
3	9920.000	52.65	74.00	-21.35	53.84	-1.19	PK
4	12400.000	54.30	74.00	-19.70	51.96	2.34	PK
* 5	12400.000	41.58	54.00	-12.42	39.24	2.34	AV

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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW1M	Humidity (%RH)	63.0

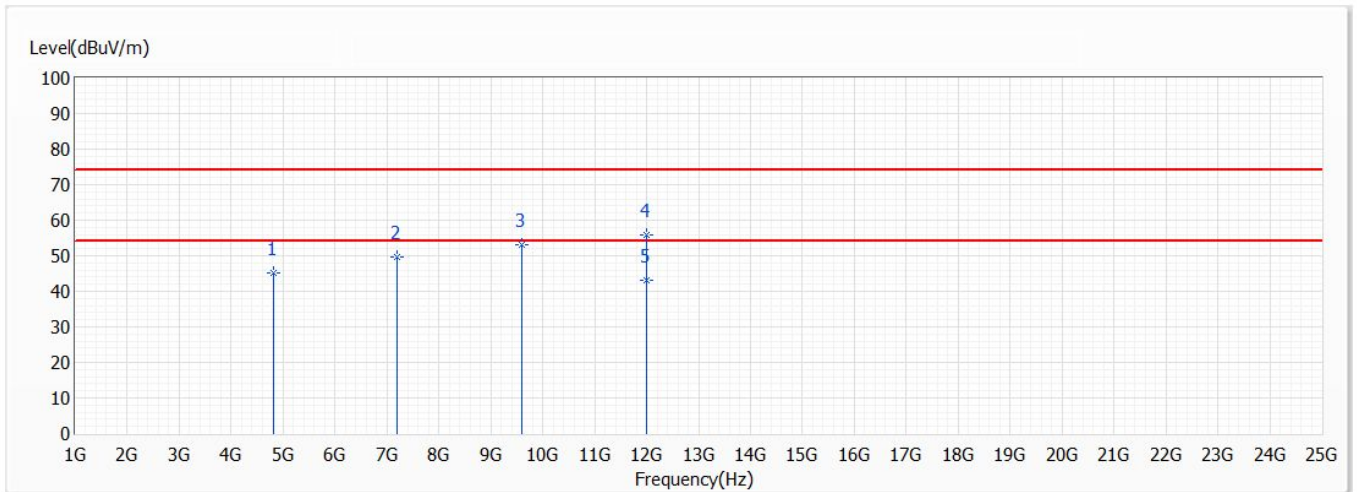


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4960.000	44.77	74.00	-29.23	56.37	-11.60	PK
2	7440.000	51.41	74.00	-22.59	55.42	-4.01	PK
3	9920.000	52.74	74.00	-21.26	53.93	-1.19	PK
4	12400.000	54.63	74.00	-19.37	52.29	2.34	PK
* 5	12400.000	41.79	54.00	-12.21	39.45	2.34	AV

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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	63.0

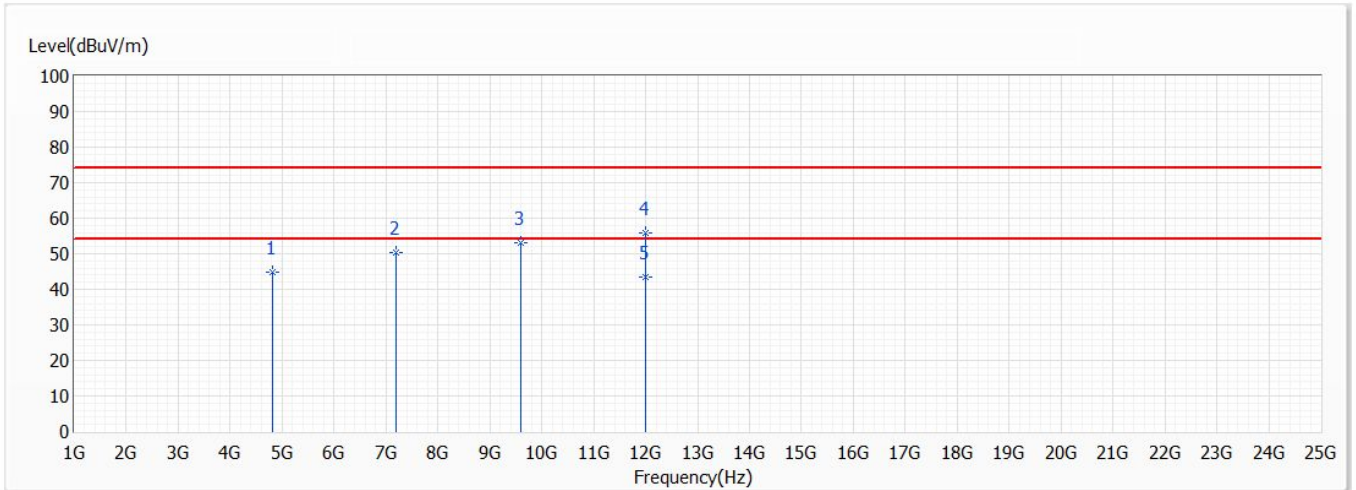


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	45.32	74.00	-28.68	57.35	-12.03	PK
2	7206.000	49.66	74.00	-24.34	54.34	-4.68	PK
3	9608.000	52.96	74.00	-21.04	54.29	-1.33	PK
4	12010.000	55.89	74.00	-18.11	53.08	2.81	PK
* 5	12010.000	43.20	54.00	-10.80	40.39	2.81	AV

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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	63.0

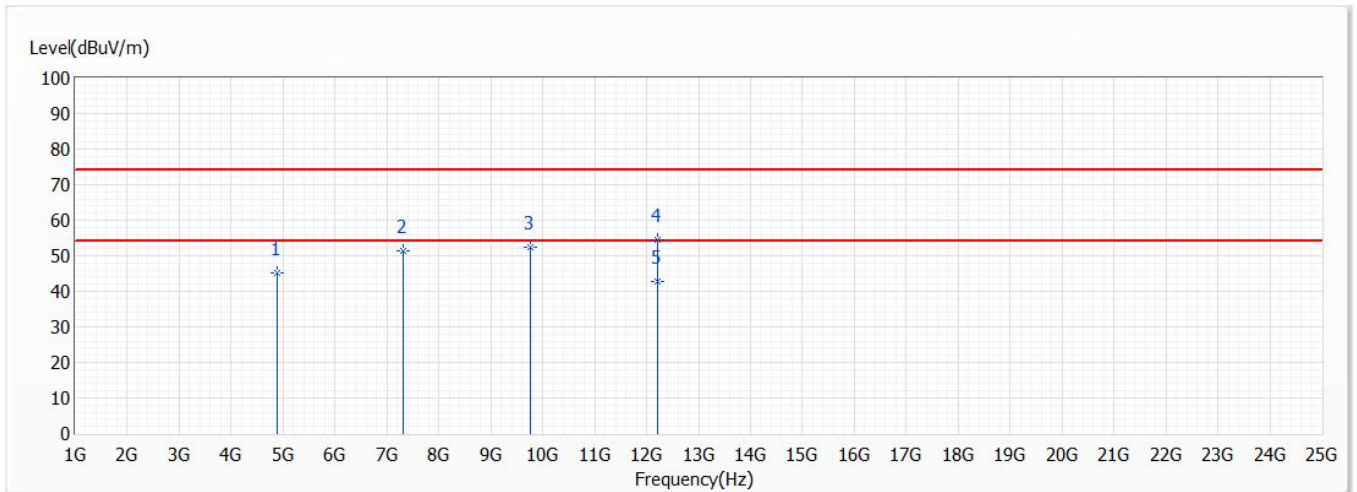


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	44.95	74.00	-29.05	56.98	-12.03	PK
2	7206.000	50.37	74.00	-23.63	55.05	-4.68	PK
3	9608.000	53.12	74.00	-20.88	54.45	-1.33	PK
4	12010.000	55.79	74.00	-18.21	52.98	2.81	PK
* 5	12010.000	43.28	54.00	-10.72	40.47	2.81	AV

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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	63.0



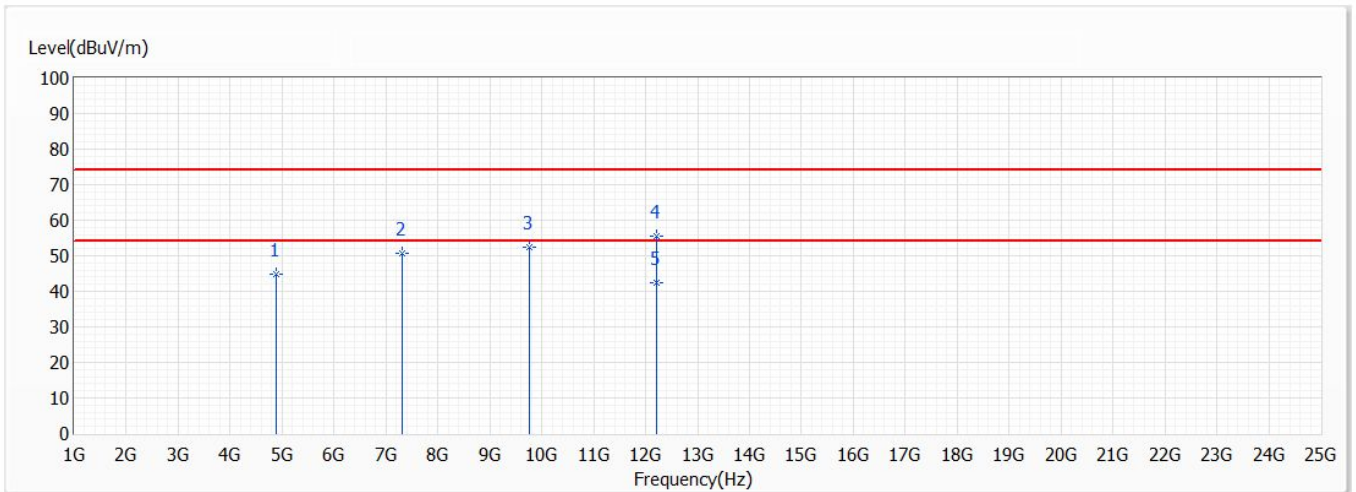
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	45.27	74.00	-28.73	57.10	-11.83	PK
2	7320.000	51.30	74.00	-22.70	55.65	-4.35	PK
3	9760.000	52.35	74.00	-21.65	53.62	-1.27	PK
4	12200.000	54.65	74.00	-19.35	52.07	2.58	PK
* 5	12200.000	42.71	54.00	-11.29	40.13	2.58	AV

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.



Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	63.0

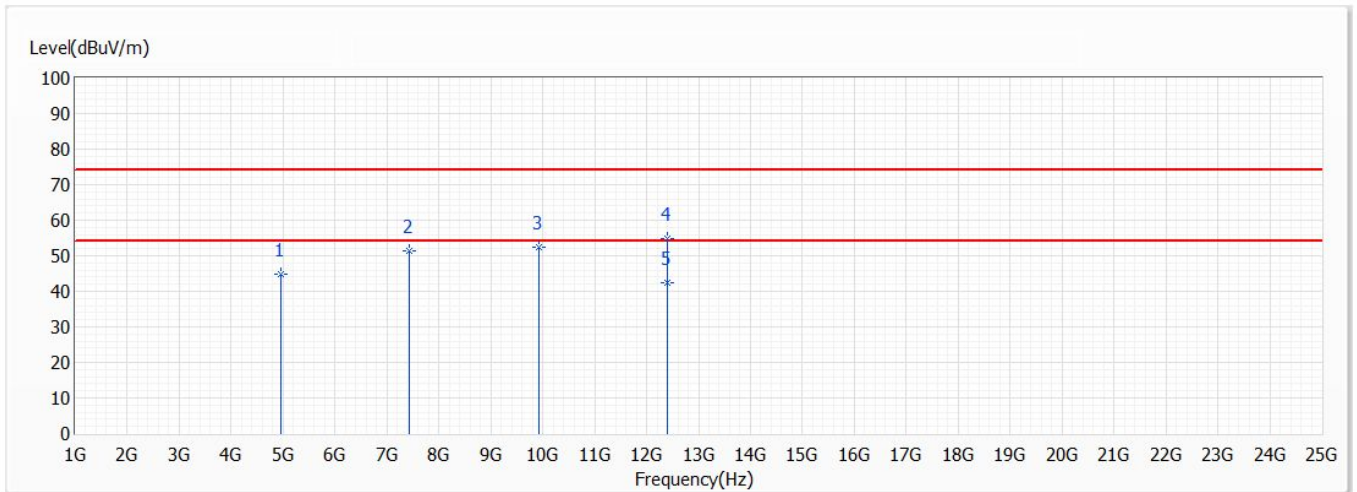


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	44.96	74.00	-29.04	56.79	-11.83	PK
2	7320.000	50.77	74.00	-23.23	55.12	-4.35	PK
3	9760.000	52.58	74.00	-21.42	53.85	-1.27	PK
4	12200.000	55.35	74.00	-18.65	52.77	2.58	PK
* 5	12200.000	42.50	54.00	-11.50	39.92	2.58	AV

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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW2M	Humidity (%RH)	63.0

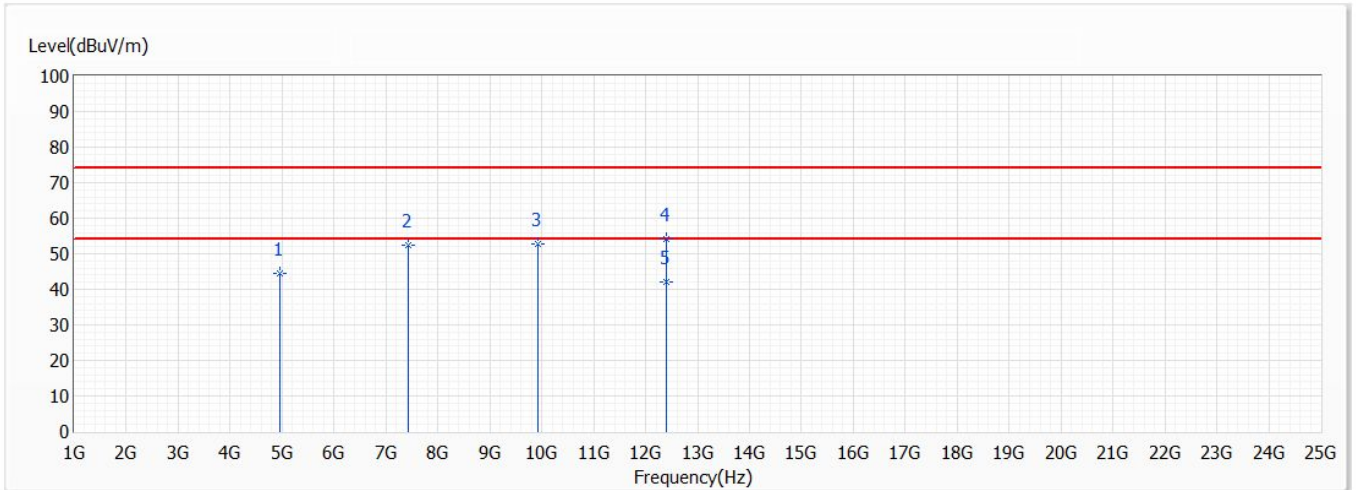


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4960.000	44.89	74.00	-29.11	56.49	-11.60	PK
2	7440.000	51.21	74.00	-22.79	55.22	-4.01	PK
3	9920.000	52.28	74.00	-21.72	53.47	-1.19	PK
4	12400.000	54.80	74.00	-19.20	52.46	2.34	PK
* 5	12400.000	42.54	54.00	-11.46	40.20	2.34	AV

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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW2M	Humidity (%RH)	63.0



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4960.000	44.65	74.00	-29.35	56.25	-11.60	PK
2	7440.000	52.50	74.00	-21.50	56.51	-4.01	PK
3	9920.000	52.77	74.00	-21.23	53.96	-1.19	PK
4	12400.000	54.17	74.00	-19.83	51.83	2.34	PK
* 5	12400.000	41.98	54.00	-12.02	39.64	2.34	AV

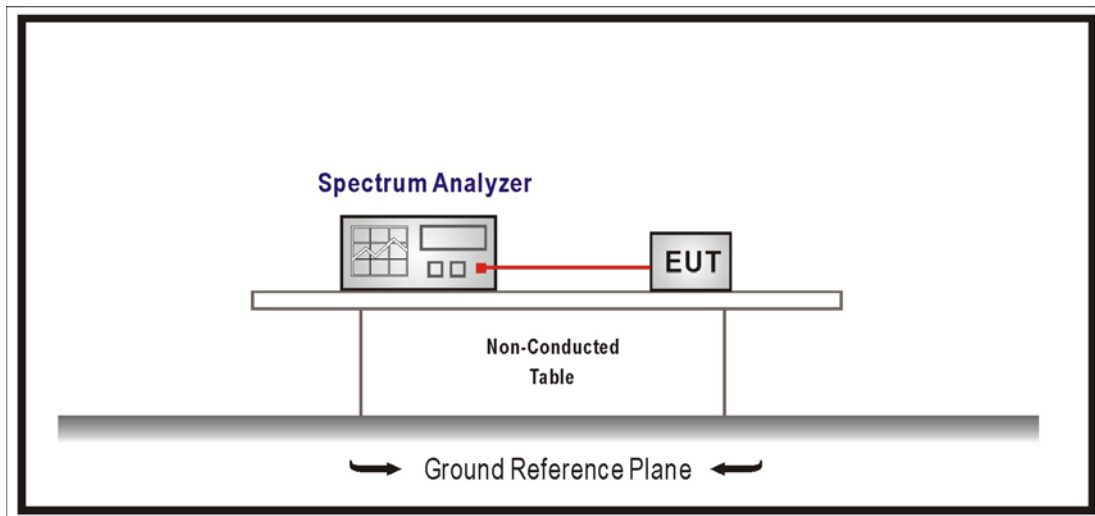
Note:

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 KDB 558074 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	Smart Display		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230		
Date of Test	2021/05/12	Test Site	SR12-H
Temperature(°C)	24.0	Humidity (%RH)	68.0

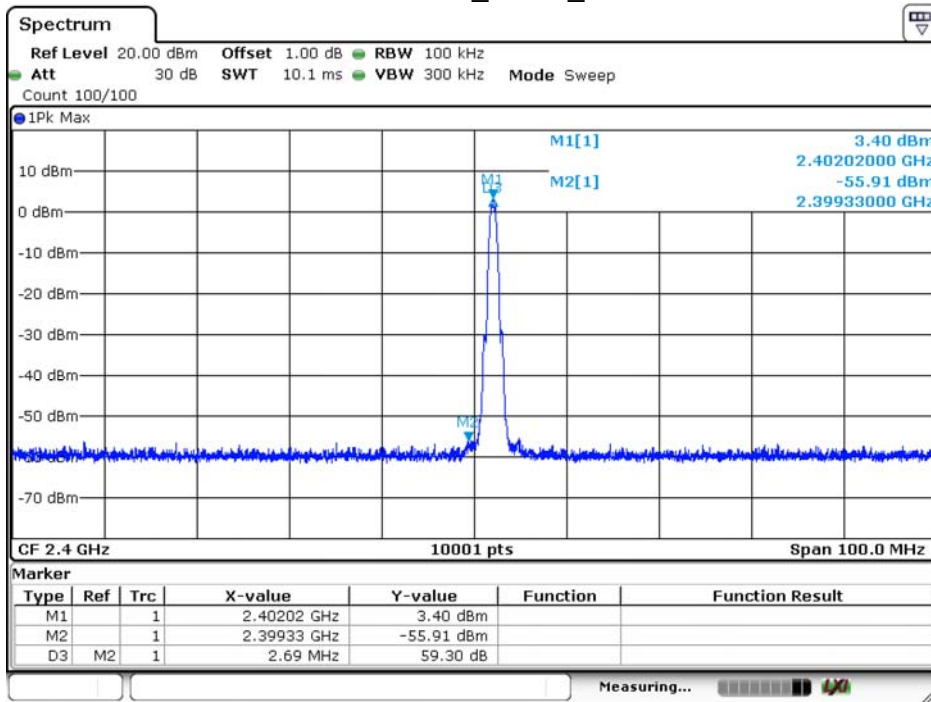
### GFSK\_1M

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)
00	2402	49.850	$\geq 20$
19	2440	50.880	$\geq 20$
39	2480	49.900	$\geq 20$

### GFSK\_2M

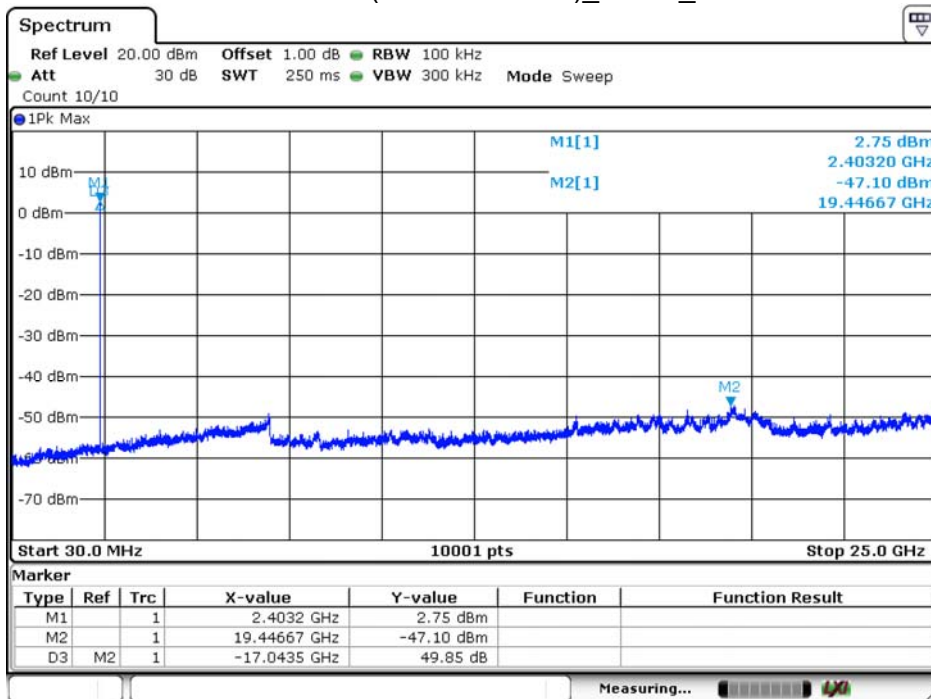
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)
00	2402	33.480	$\geq 20$
19	2440	50.260	$\geq 20$
39	2480	49.100	$\geq 20$

### Channel 00\_GFSK\_1M



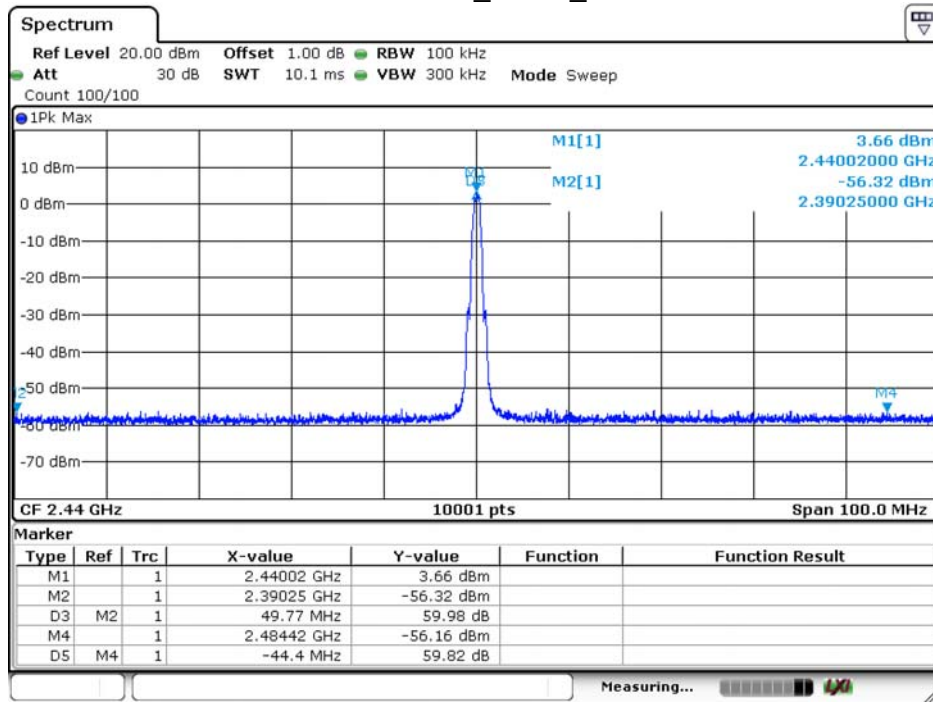
Date: 12.MAY.2021 16:36:19

### Channel 00 (30MHz-25GHz)\_GFSK\_1M



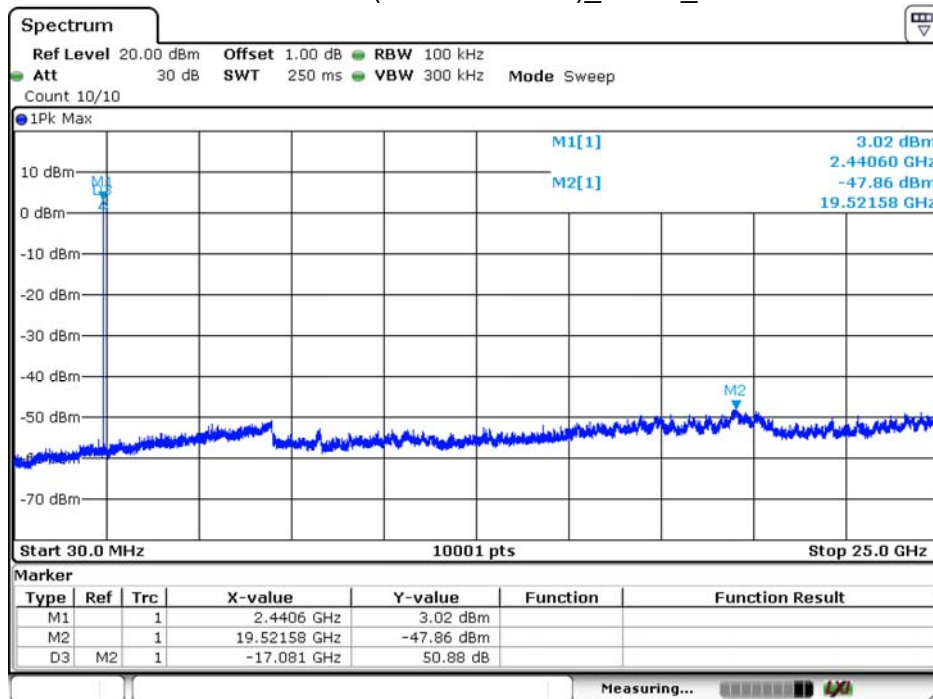
Date: 12.MAY.2021 17:05:08

### Channel 19\_GFSK\_1M



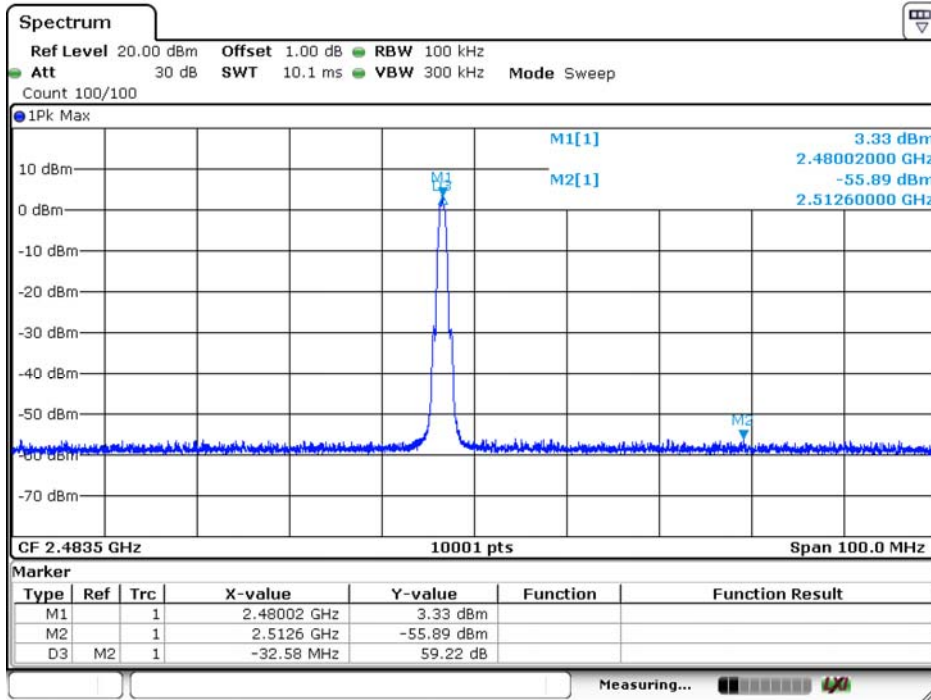
Date: 12.MAY.2021 16:39:22

### Channel 19 (30MHz-25GHz)\_GFSK\_1M



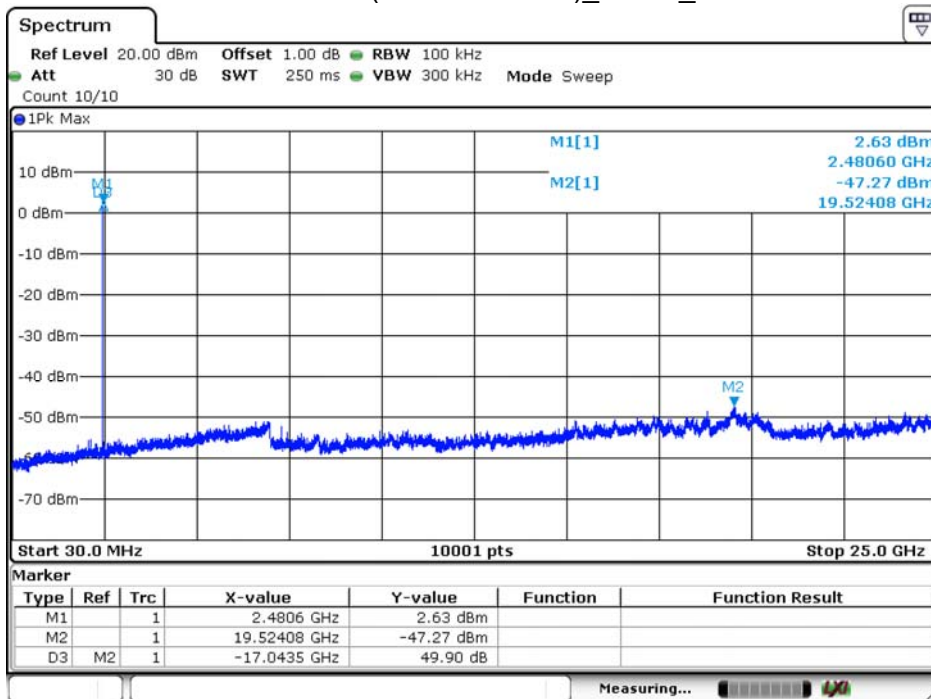
Date: 12.MAY.2021 17:00:50

### Channel 39\_GFSK\_1M



Date: 12.MAY.2021 16:43:23

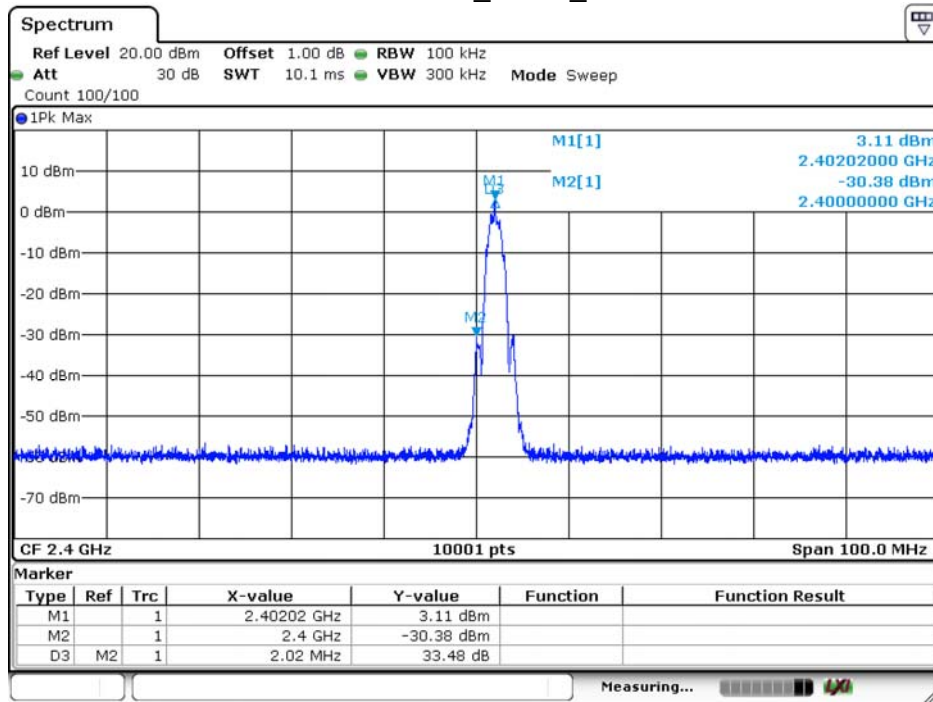
### Channel 39 (30MHz-25GHz)\_GFSK\_1M



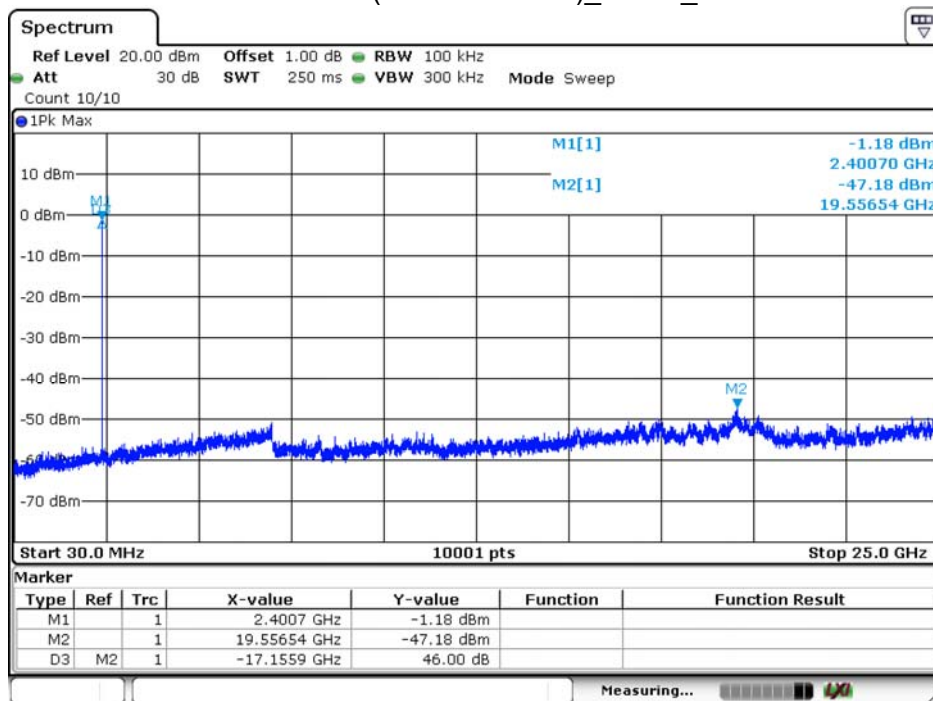
Date: 12.MAY.2021 16:58:04



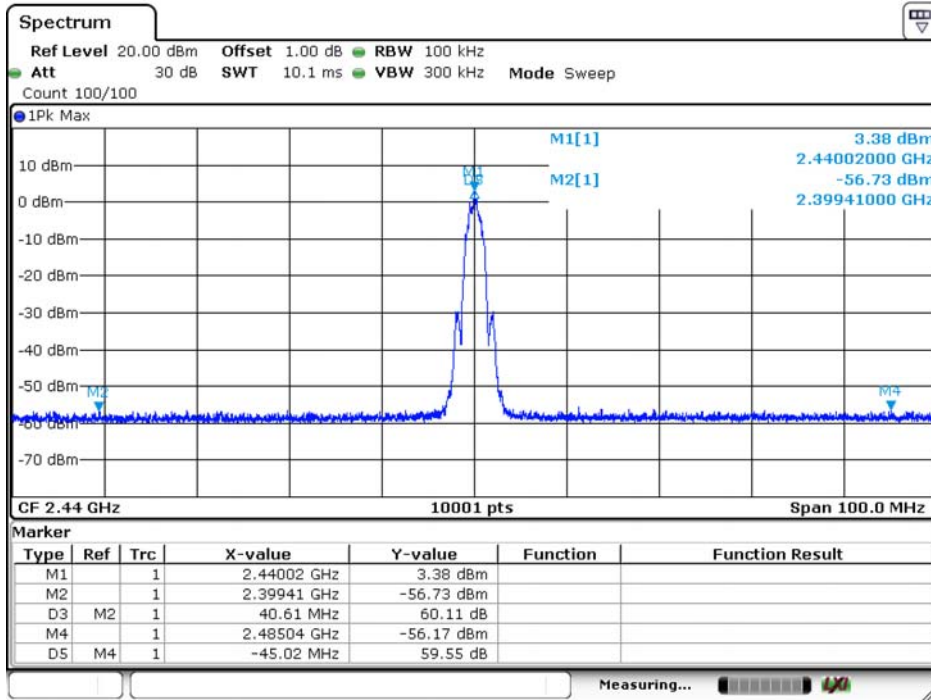
### Channel 00\_GFSK\_2M



### Channel 00 (30MHz-25GHz)\_GFSK\_2M

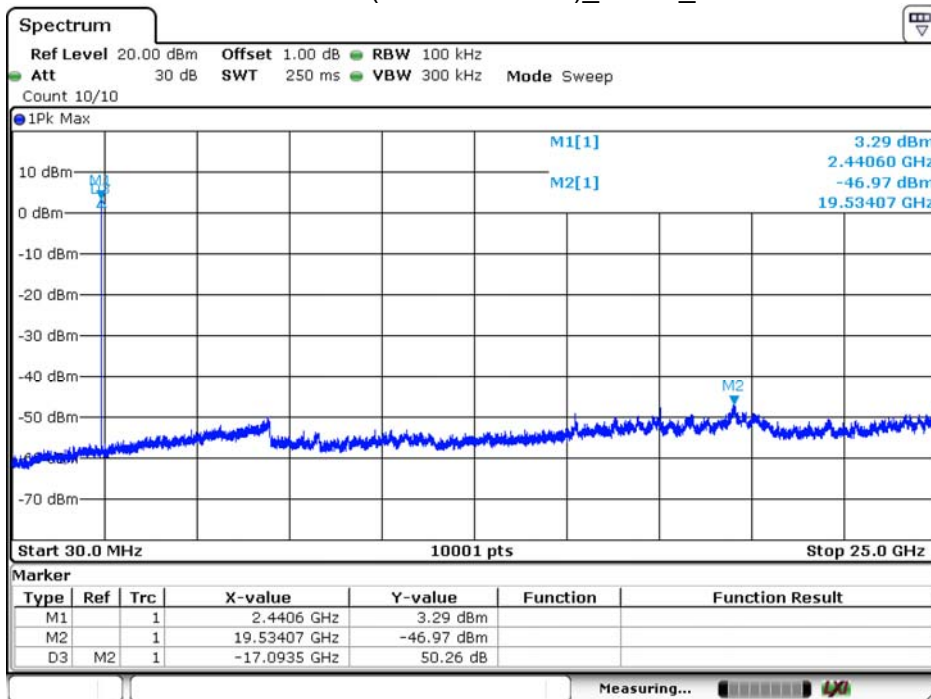


### Channel 19\_GFSK\_2M



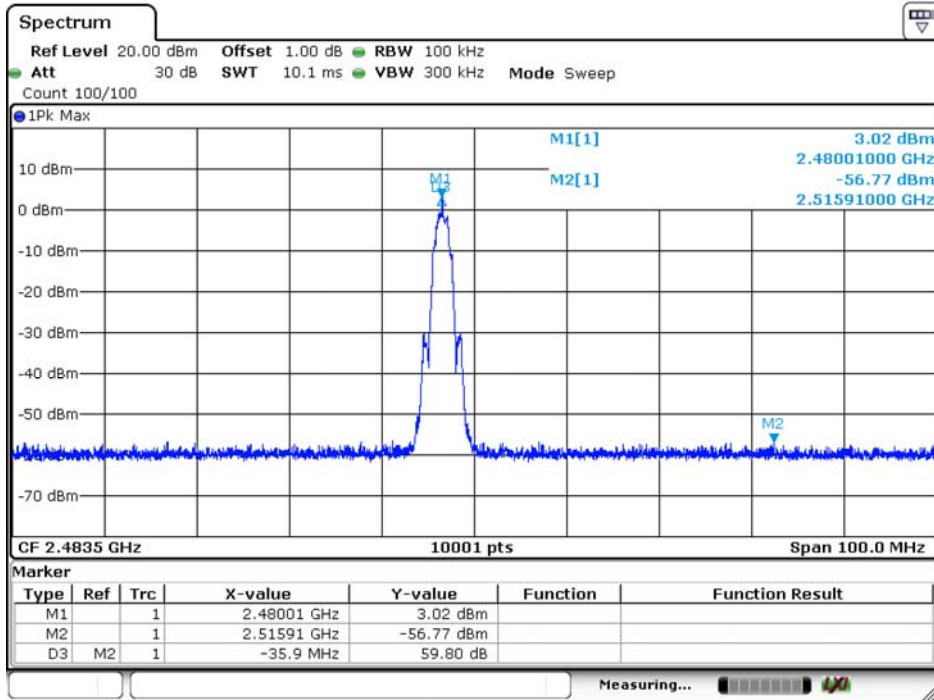
Date: 12.MAY.2021 16:47:27

### Channel 19 (30MHz-25GHz)\_GFSK\_2M



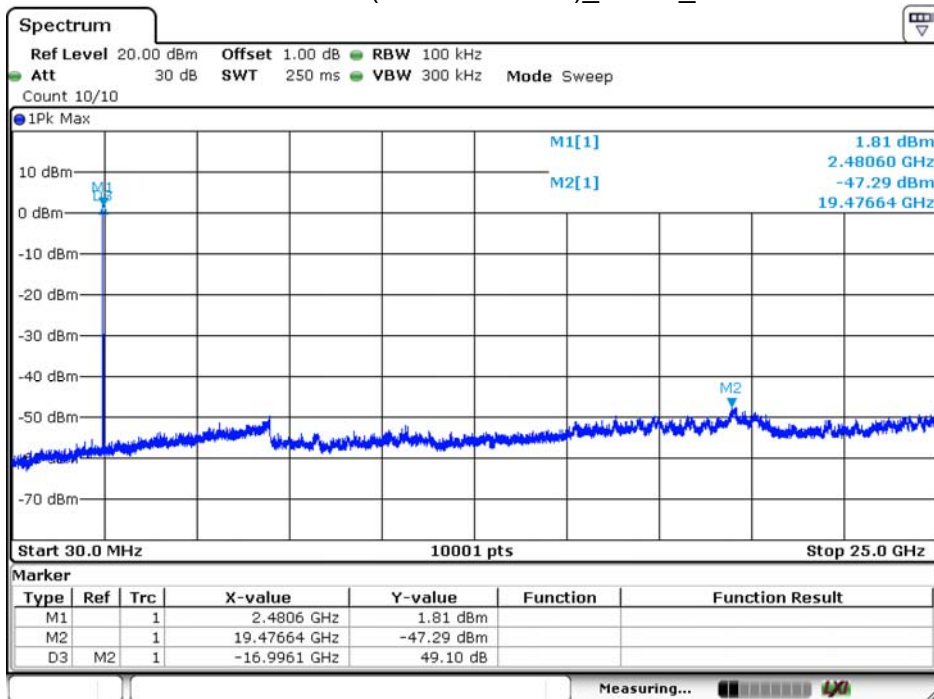
Date: 12.MAY.2021 16:54:11

### Channel 39\_GFSK\_2M



Date: 12.MAY.2021 16:45:03

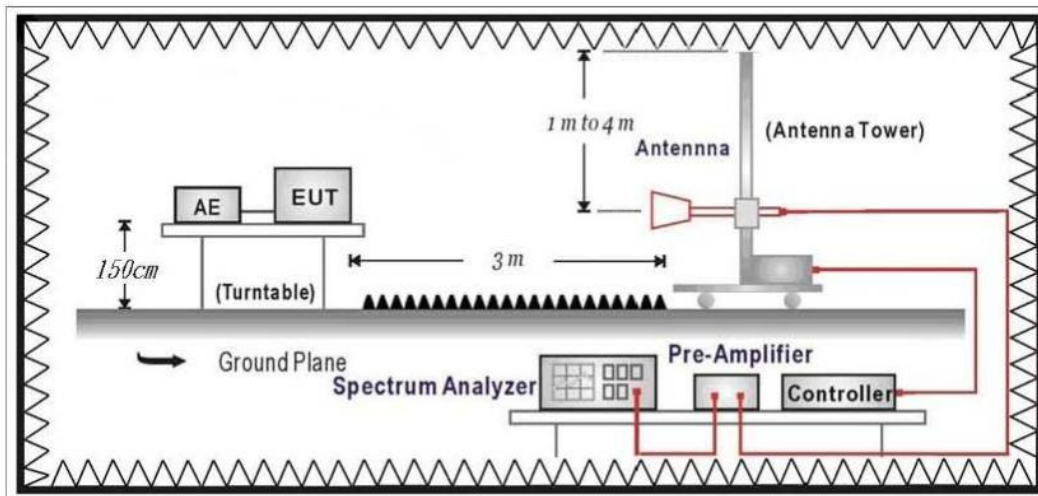
### Channel 39 (30MHz-25GHz)\_GFSK\_2M



Date: 12.MAY.2021 16:56:06

## 6. Bandedge

### 6.1. Test Setup



### 6.2. Limits

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

### 6.3. Test Procedure

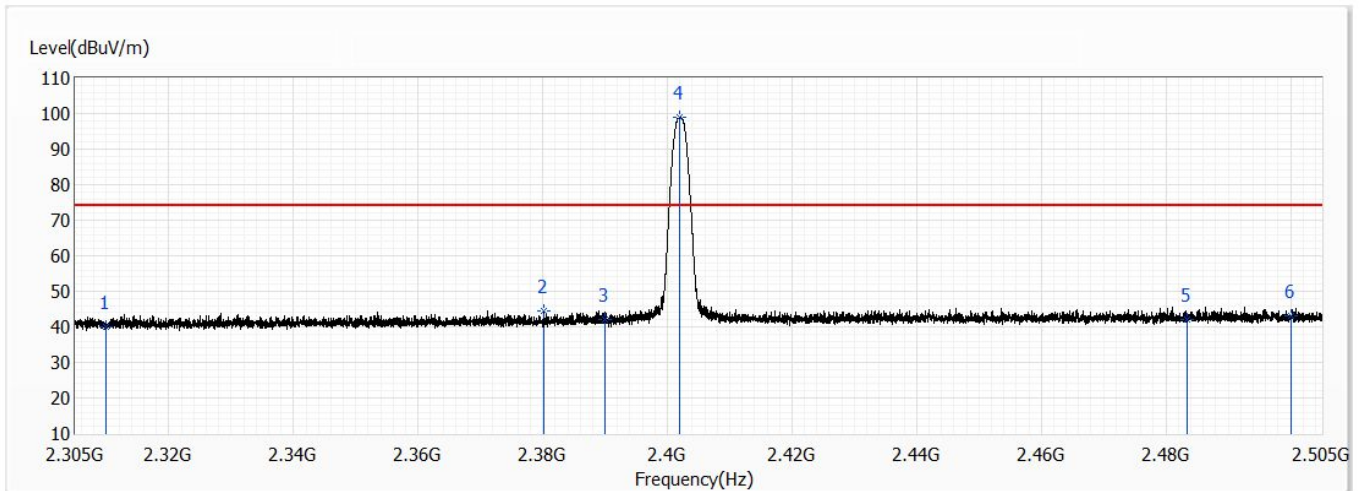
The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074 D01V05r02 for compliance to FCC 47CFR 15.247 requirements.

### 6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019

### 6.5. Test Result

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	63.0

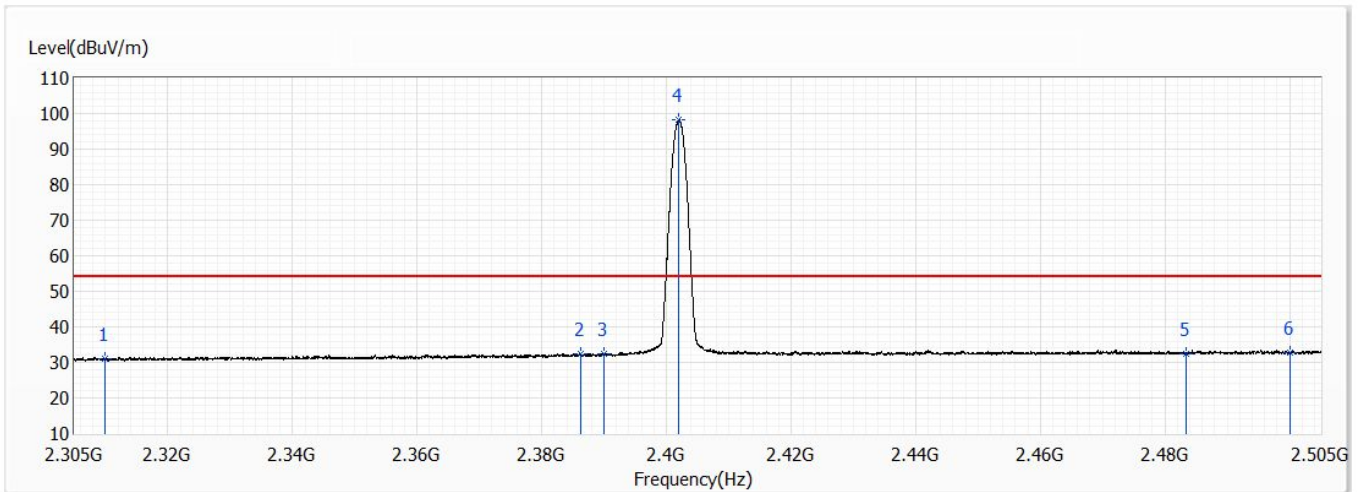


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	39.99	74.00	-34.01	26.84	13.15	PK
2	2380.100	44.60	74.00	-29.40	30.97	13.63	PK
3	2390.000	42.10	74.00	-31.90	28.40	13.70	PK
! 4	2402.050	98.89	74.00	24.89	85.10	13.79	PK
5	2483.500	42.10	74.00	-31.90	27.74	14.36	PK
6	2500.000	43.15	74.00	-30.85	28.67	14.48	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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	63.0

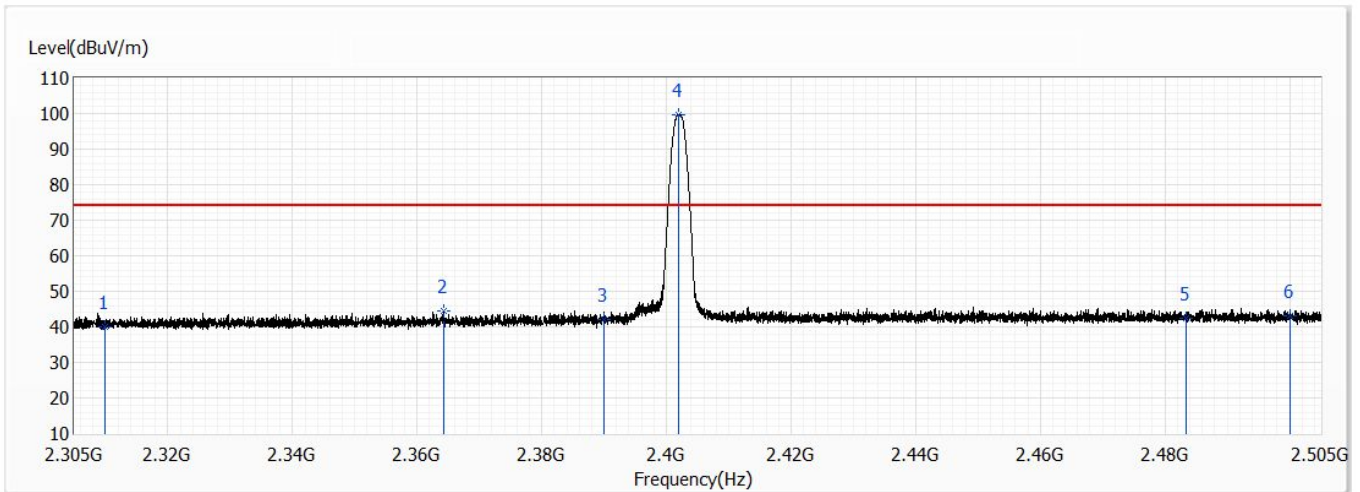


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.94	54.00	-23.06	17.79	13.15	AV
2	2386.175	32.55	54.00	-21.45	18.87	13.68	AV
3	2390.000	32.28	54.00	-21.72	18.58	13.70	AV
! 4	2402.000	98.28	54.00	44.28	84.49	13.79	AV
5	2483.500	32.32	54.00	-21.68	17.96	14.36	AV
6	2500.000	32.77	54.00	-21.23	18.29	14.48	AV

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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	63.0

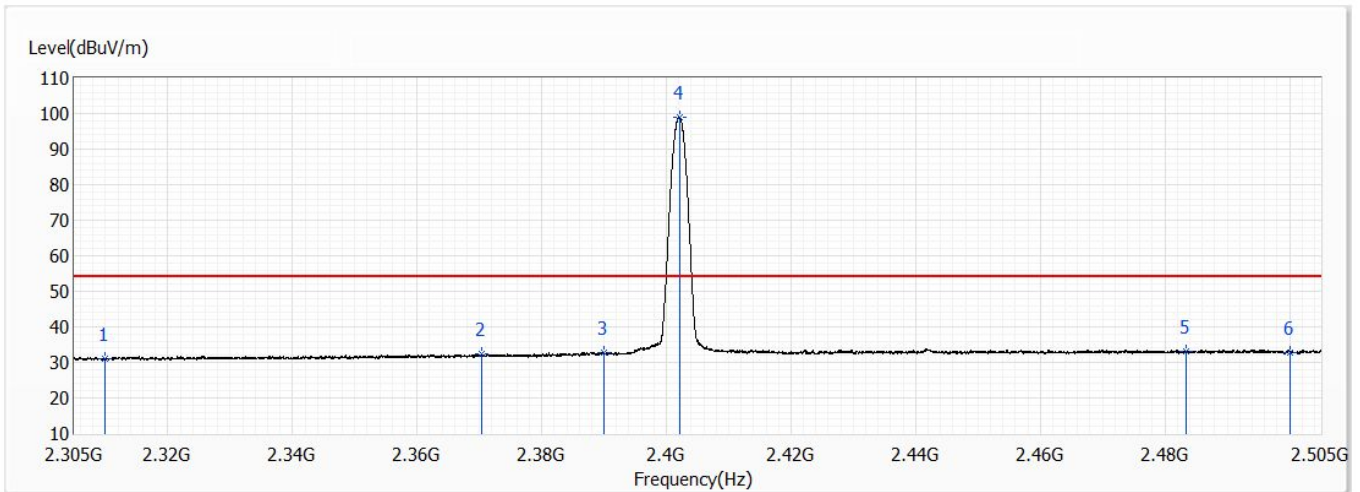


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	39.97	74.00	-34.03	26.82	13.15	PK
2	2364.225	44.42	74.00	-29.58	30.89	13.53	PK
3	2390.000	42.22	74.00	-31.78	28.52	13.70	PK
! 4	2402.000	99.58	74.00	25.58	85.79	13.79	PK
5	2483.500	42.51	74.00	-31.49	28.15	14.36	PK
6	2500.000	43.23	74.00	-30.77	28.75	14.48	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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	63.0



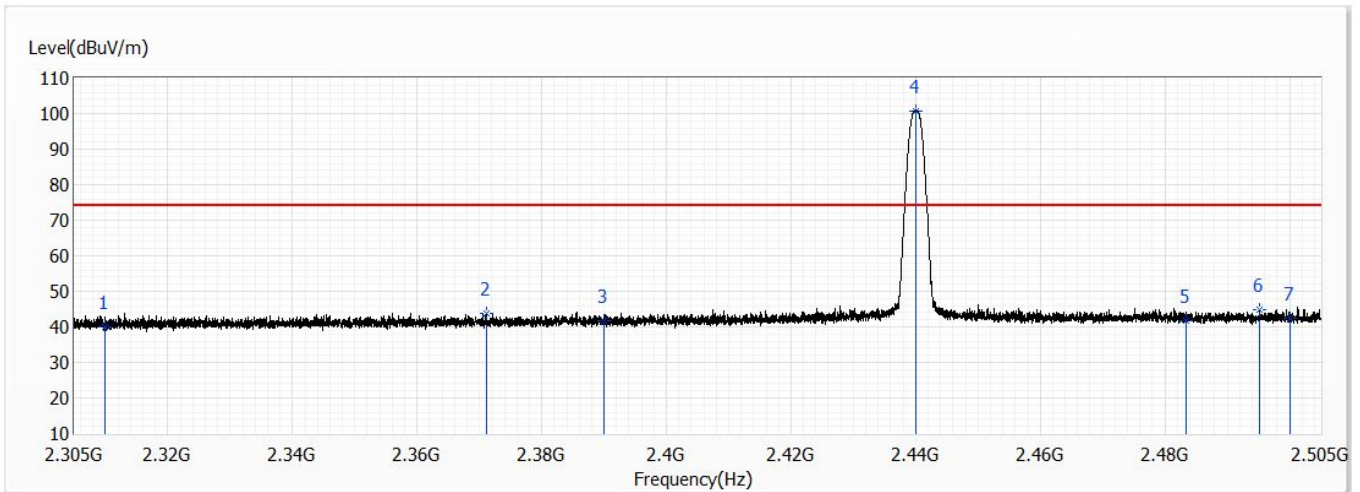
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.91	54.00	-23.09	17.76	13.15	AV
2	2370.375	32.33	54.00	-21.67	18.76	13.57	AV
3	2390.000	32.62	54.00	-21.38	18.92	13.70	AV
! 4	2402.075	99.09	54.00	45.09	85.30	13.79	AV
5	2483.500	33.23	54.00	-20.77	18.87	14.36	AV
6	2500.000	32.87	54.00	-21.13	18.39	14.48	AV

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.



Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW1M	Humidity (%RH)	63.0

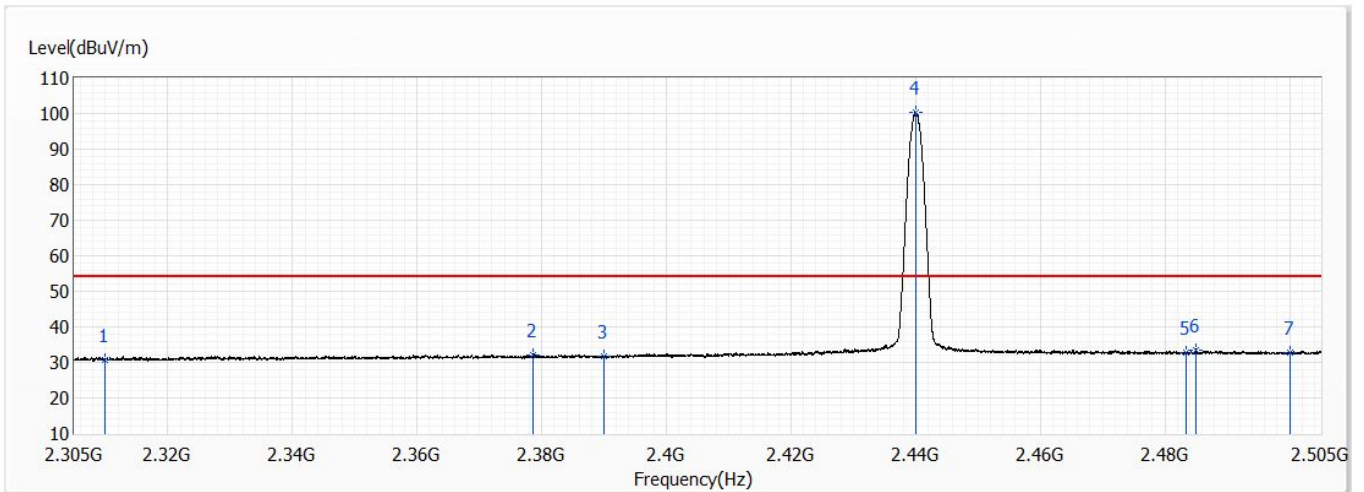


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	40.05	74.00	-33.95	26.90	13.15	PK
2	2371.075	43.75	74.00	-30.25	30.17	13.58	PK
3	2390.000	41.79	74.00	-32.21	28.09	13.70	PK
! 4	2440.025	100.86	74.00	26.86	86.81	14.05	PK
5	2483.500	41.59	74.00	-32.41	27.23	14.36	PK
6	2495.275	44.90	74.00	-29.10	30.46	14.44	PK
7	2500.000	42.35	74.00	-31.65	27.87	14.48	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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW1M	Humidity (%RH)	63.0

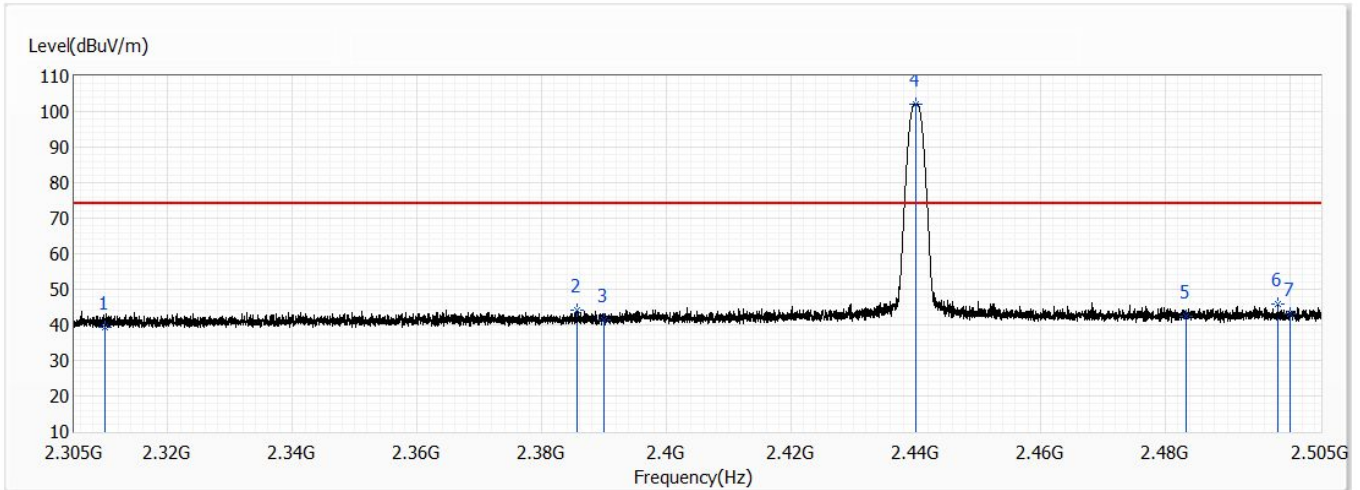


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.83	54.00	-23.17	17.68	13.15	AV
2	2378.625	32.20	54.00	-21.80	18.58	13.62	AV
3	2390.000	31.72	54.00	-22.28	18.02	13.70	AV
! 4	2440.050	100.34	54.00	46.34	86.29	14.05	AV
5	2483.500	32.85	54.00	-21.15	18.49	14.36	AV
6	2485.075	33.62	54.00	-20.38	19.25	14.37	AV
7	2500.000	32.90	54.00	-21.10	18.42	14.48	AV

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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW1M	Humidity (%RH)	63.0

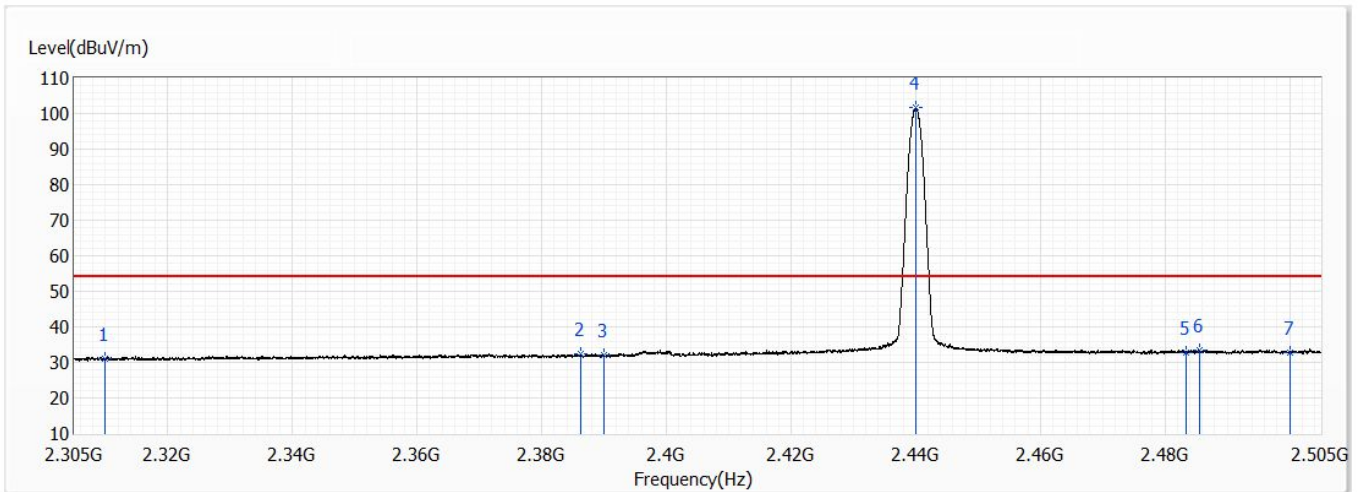


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	39.46	74.00	-34.54	26.31	13.15	PK
2	2385.700	44.15	74.00	-29.85	30.48	13.67	PK
3	2390.000	41.54	74.00	-32.46	27.84	13.70	PK
! 4	2440.025	102.15	74.00	28.15	88.10	14.05	PK
5	2483.500	42.37	74.00	-31.63	28.01	14.36	PK
6	2498.075	45.74	74.00	-28.26	31.27	14.47	PK
7	2500.000	43.17	74.00	-30.83	28.69	14.48	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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW1M	Humidity (%RH)	63.0

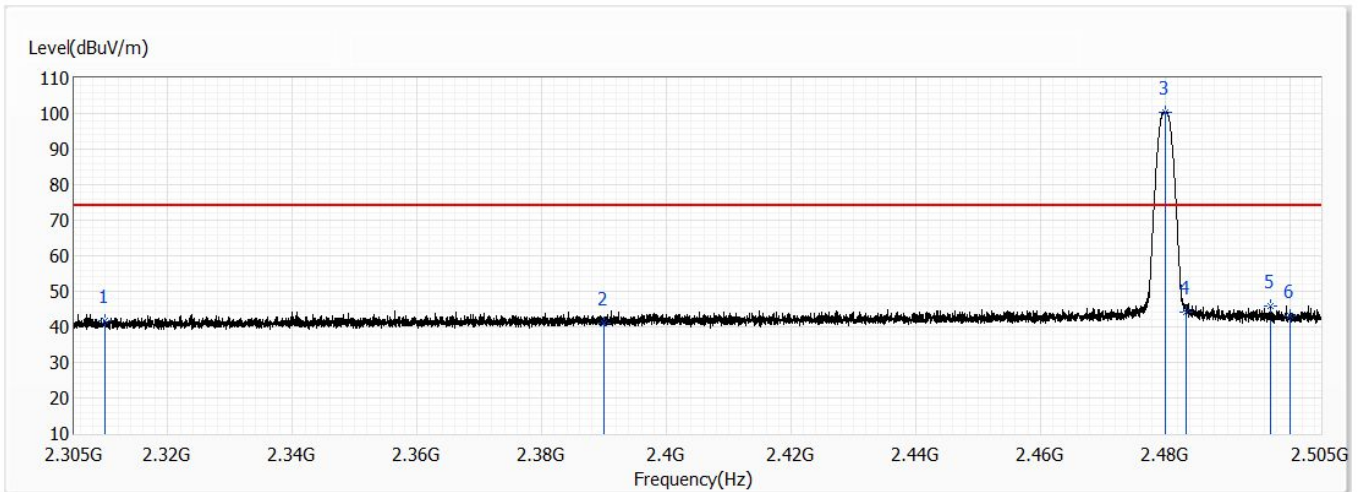


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.90	54.00	-23.10	17.75	13.15	AV
2	2386.175	32.37	54.00	-21.63	18.69	13.68	AV
3	2390.000	31.95	54.00	-22.05	18.25	13.70	AV
! 4	2440.025	101.62	54.00	47.62	87.57	14.05	AV
5	2483.500	32.74	54.00	-21.26	18.38	14.36	AV
6	2485.625	33.35	54.00	-20.65	18.97	14.38	AV
7	2500.000	32.72	54.00	-21.28	18.24	14.48	AV

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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW1M	Humidity (%RH)	63.0

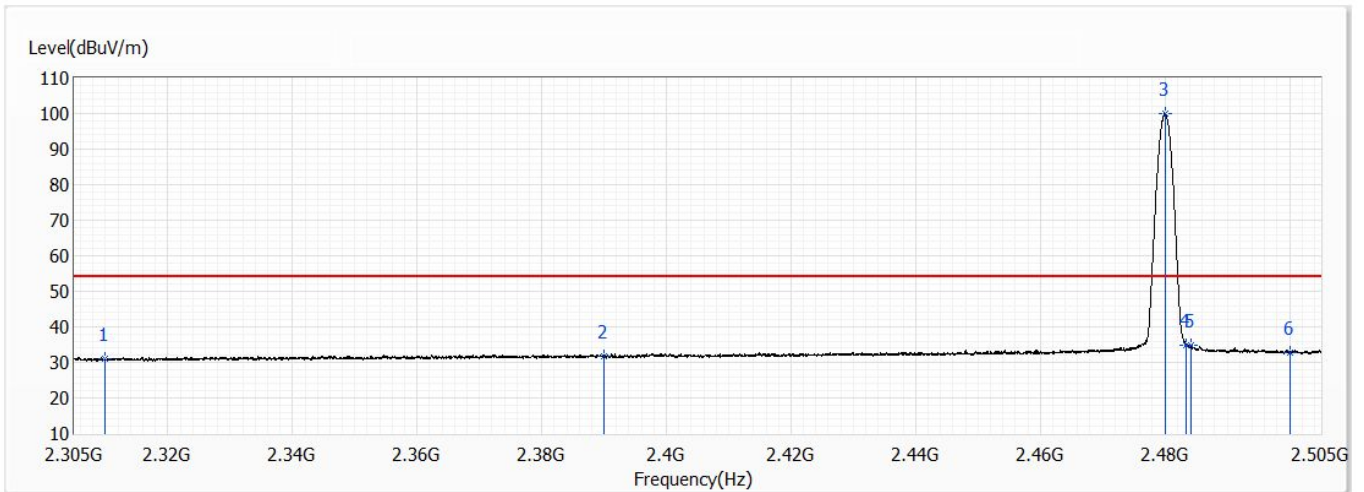


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.62	74.00	-32.38	28.47	13.15	PK
2	2390.000	41.12	74.00	-32.88	27.42	13.70	PK
! 3	2480.025	100.41	74.00	26.41	86.07	14.34	PK
4	2483.500	44.29	74.00	-29.71	29.93	14.36	PK
5	2497.000	45.85	74.00	-28.15	31.40	14.45	PK
6	2500.000	42.96	74.00	-31.04	28.48	14.48	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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW1M	Humidity (%RH)	63.0

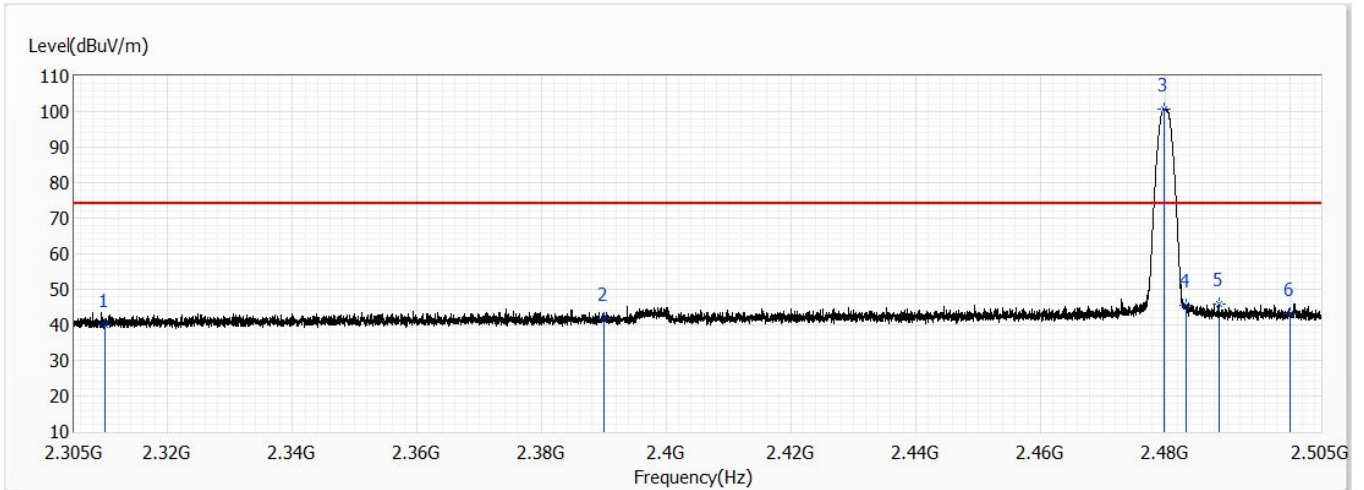


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.99	54.00	-23.01	17.84	13.15	AV
2	2390.000	31.61	54.00	-22.39	17.91	13.70	AV
! 3	2480.050	99.96	54.00	45.96	85.62	14.34	AV
4	2483.500	34.81	54.00	-19.19	20.45	14.36	AV
5	2484.150	34.73	54.00	-19.27	20.37	14.36	AV
6	2500.000	32.91	54.00	-21.09	18.43	14.48	AV

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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW1M	Humidity (%RH)	63.0

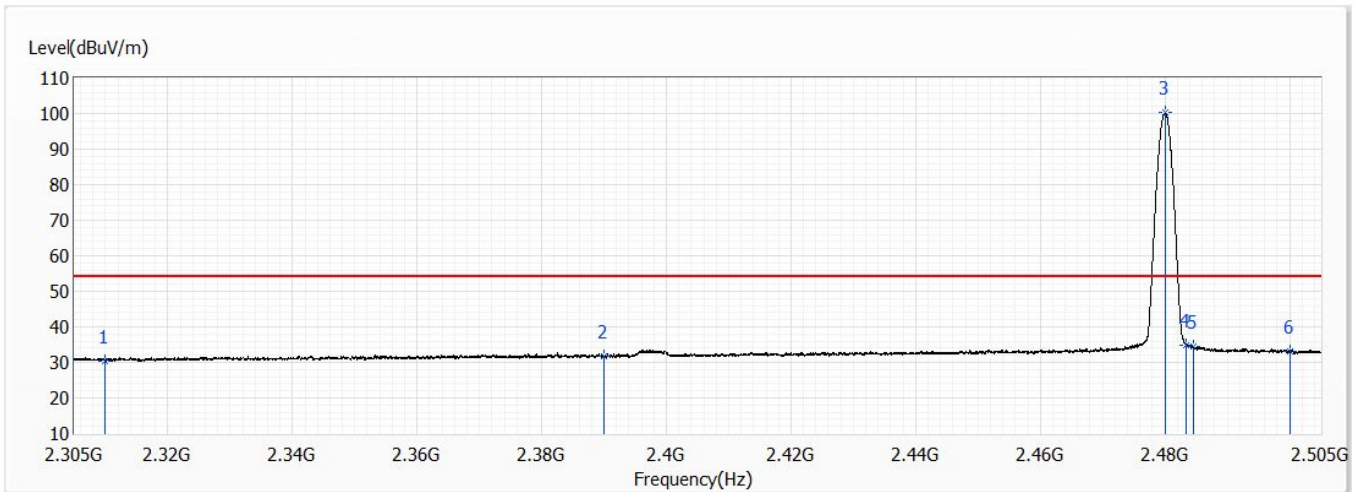


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	40.01	74.00	-33.99	26.86	13.15	PK
2	2390.000	41.63	74.00	-32.37	27.93	13.70	PK
! 3	2479.875	100.67	74.00	26.67	86.33	14.34	PK
4	2483.500	45.53	74.00	-28.47	31.17	14.36	PK
5	2488.625	45.78	74.00	-28.22	31.38	14.40	PK
6	2500.000	43.11	74.00	-30.89	28.63	14.48	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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW1M	Humidity (%RH)	63.0



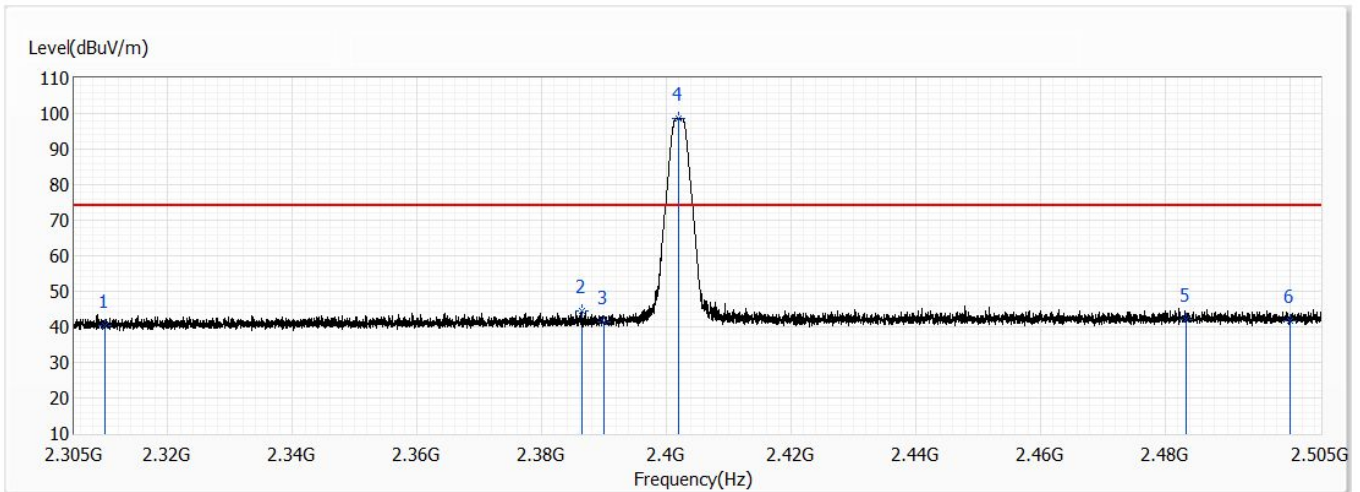
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.45	54.00	-23.55	17.30	13.15	AV
2	2390.000	31.64	54.00	-22.36	17.94	13.70	AV
! 3	2480.050	100.20	54.00	46.20	85.86	14.34	AV
4	2483.500	34.92	54.00	-19.08	20.56	14.36	AV
5	2484.550	34.35	54.00	-19.65	19.99	14.36	AV
6	2500.000	33.27	54.00	-20.73	18.79	14.48	AV

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.



Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	63.0

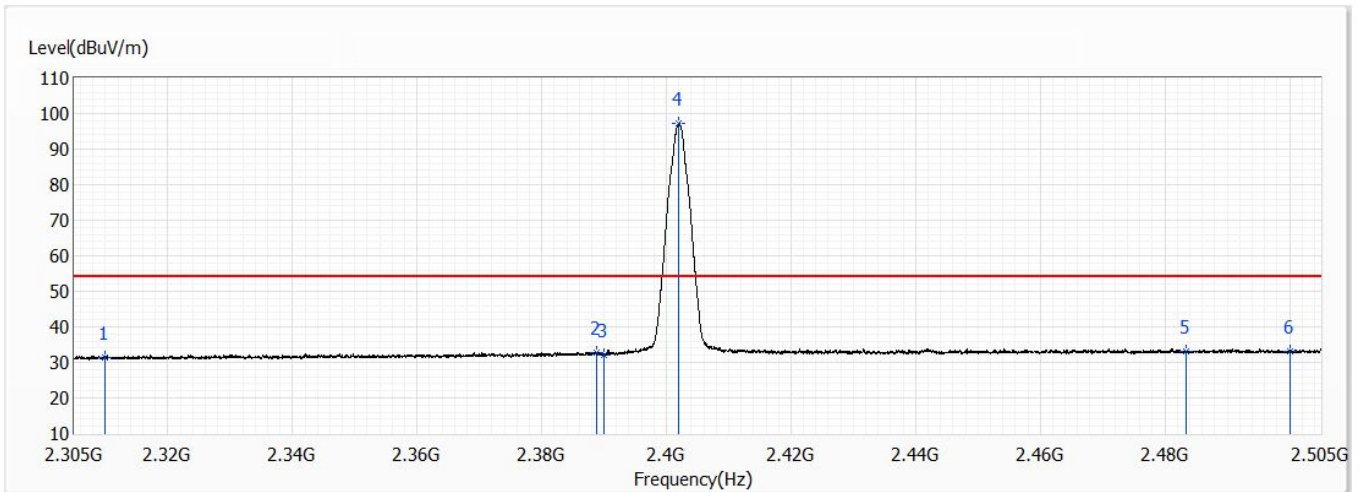


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	40.51	74.00	-33.49	27.36	13.15	PK
2	2386.500	44.48	74.00	-29.52	30.80	13.68	PK
3	2390.000	41.21	74.00	-32.79	27.51	13.70	PK
! 4	2402.000	98.78	74.00	24.78	84.99	13.79	PK
5	2483.500	41.92	74.00	-32.08	27.56	14.36	PK
6	2500.000	41.84	74.00	-32.16	27.36	14.48	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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	63.0

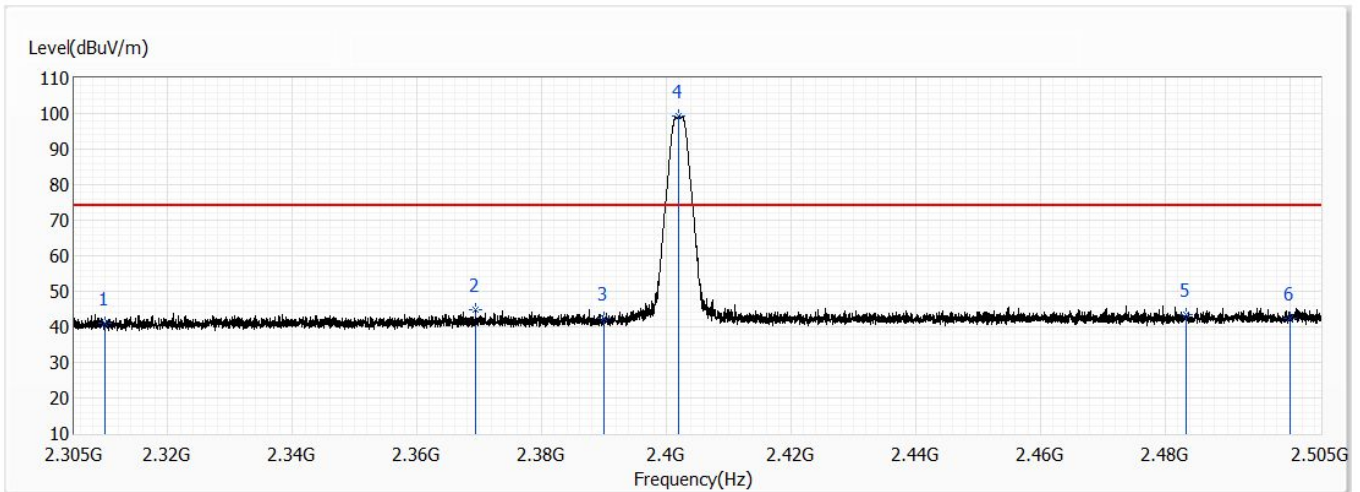


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.55	54.00	-22.45	18.40	13.15	AV
2	2388.775	32.81	54.00	-21.19	19.11	13.70	AV
3	2390.000	32.19	54.00	-21.81	18.49	13.70	AV
! 4	2402.000	97.27	54.00	43.27	83.48	13.79	AV
5	2483.500	32.95	54.00	-21.05	18.59	14.36	AV
6	2500.000	33.24	54.00	-20.76	18.76	14.48	AV

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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	63.0

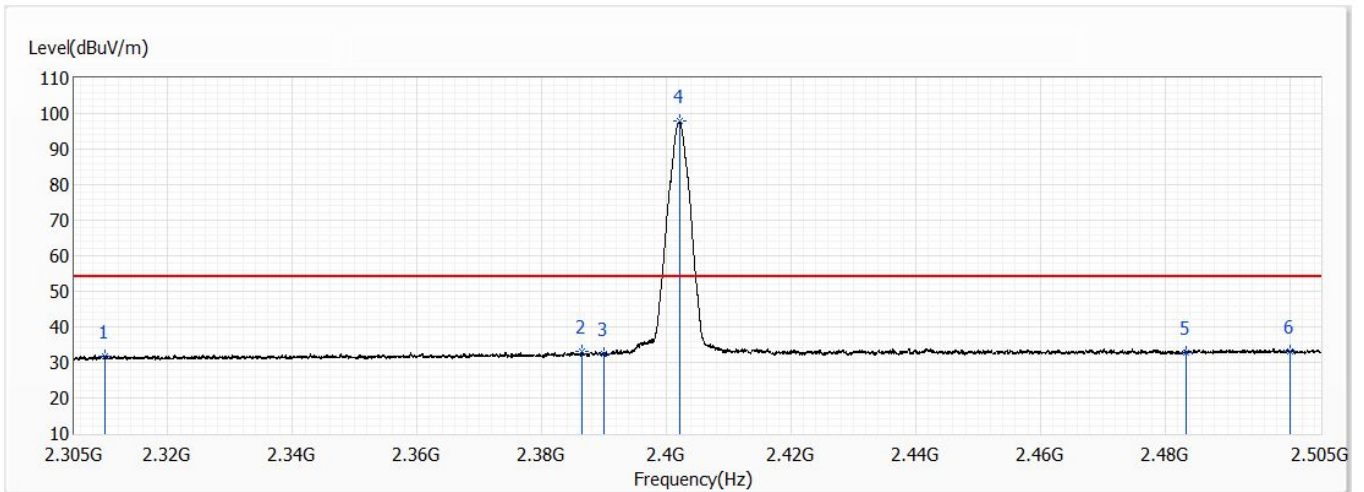


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.16	74.00	-32.84	28.01	13.15	PK
2	2369.350	44.79	74.00	-29.21	31.23	13.56	PK
3	2390.000	42.50	74.00	-31.50	28.80	13.70	PK
! 4	2402.050	99.18	74.00	25.18	85.39	13.79	PK
5	2483.500	43.55	74.00	-30.45	29.19	14.36	PK
6	2500.000	42.58	74.00	-31.42	28.10	14.48	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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	63.0

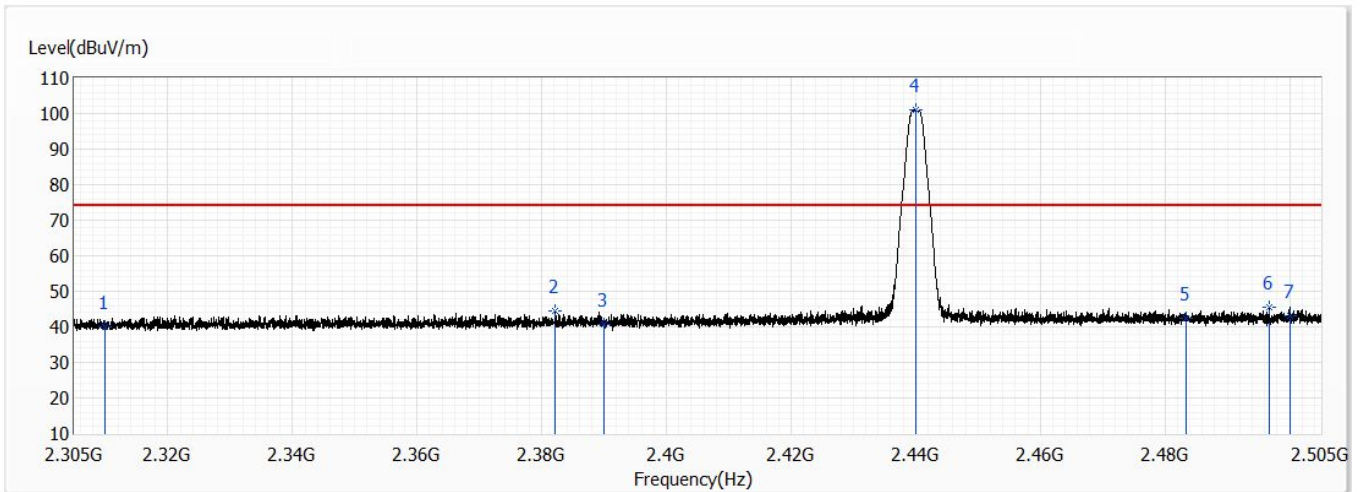


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.74	54.00	-22.26	18.59	13.15	AV
2	2386.475	33.07	54.00	-20.93	19.39	13.68	AV
3	2390.000	32.37	54.00	-21.63	18.67	13.70	AV
! 4	2402.100	97.80	54.00	43.80	84.01	13.79	AV
5	2483.500	32.59	54.00	-21.41	18.23	14.36	AV
6	2500.000	33.19	54.00	-20.81	18.71	14.48	AV

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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	63.0

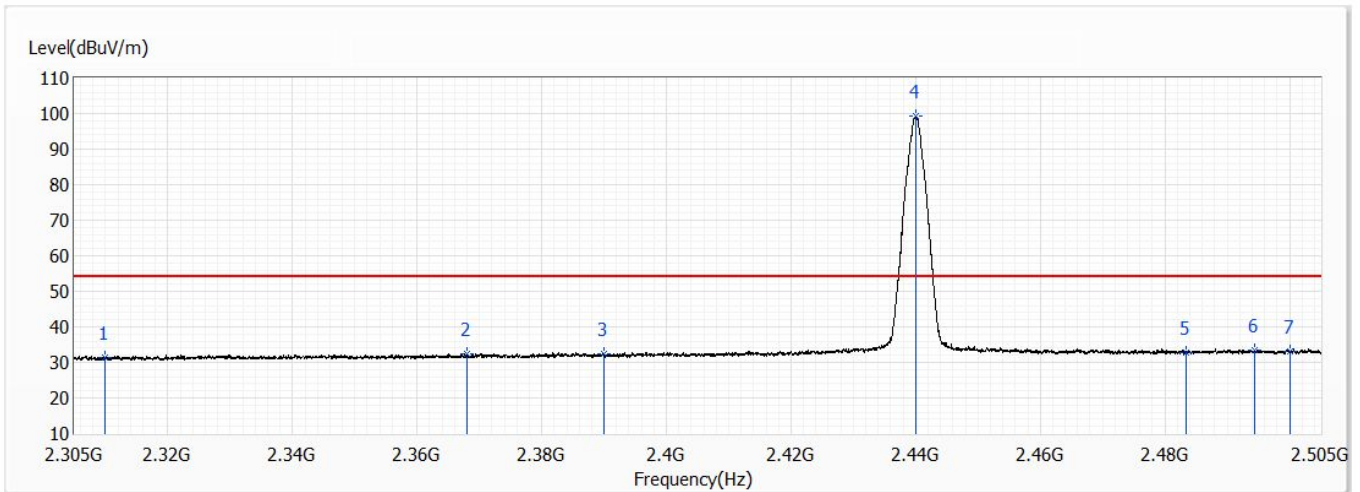


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	40.14	74.00	-33.86	26.99	13.15	PK
2	2382.100	44.50	74.00	-29.50	30.84	13.66	PK
3	2390.000	40.86	74.00	-33.14	27.16	13.70	PK
! 4	2440.000	100.99	74.00	26.99	86.94	14.05	PK
5	2483.500	42.57	74.00	-31.43	28.21	14.36	PK
6	2496.725	45.48	74.00	-28.52	31.03	14.45	PK
7	2500.000	43.19	74.00	-30.81	28.71	14.48	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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	63.0

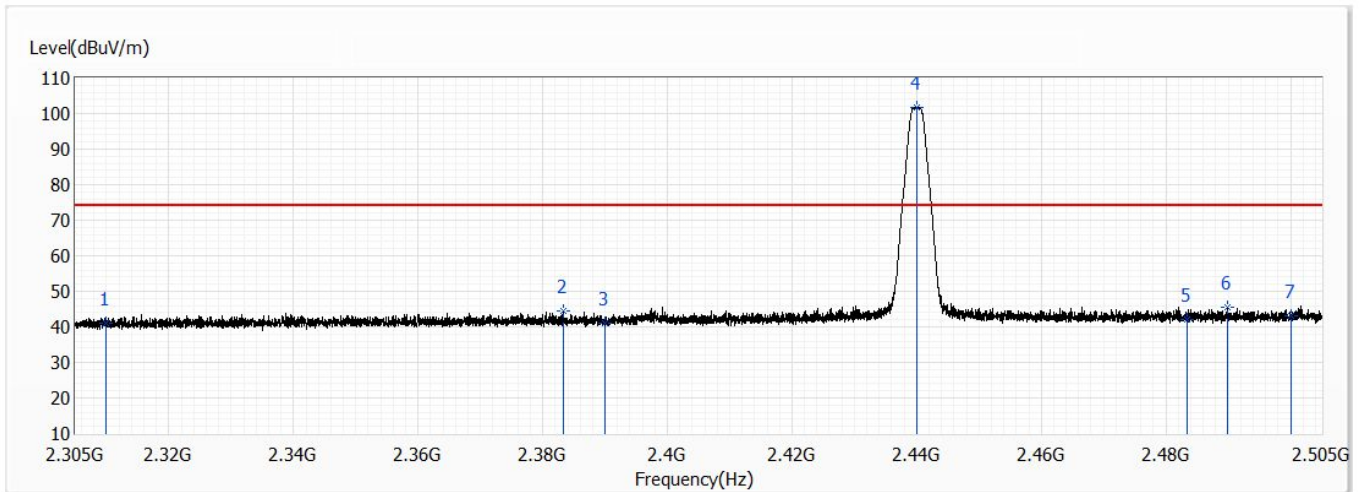


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.40	54.00	-22.60	18.25	13.15	AV
2	2368.025	32.55	54.00	-21.45	19.01	13.54	AV
3	2390.000	32.41	54.00	-21.59	18.71	13.70	AV
! 4	2440.000	99.25	54.00	45.25	85.20	14.05	AV
5	2483.500	32.92	54.00	-21.08	18.56	14.36	AV
6	2494.350	33.50	54.00	-20.50	19.06	14.44	AV
7	2500.000	33.08	54.00	-20.92	18.60	14.48	AV

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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	63.0

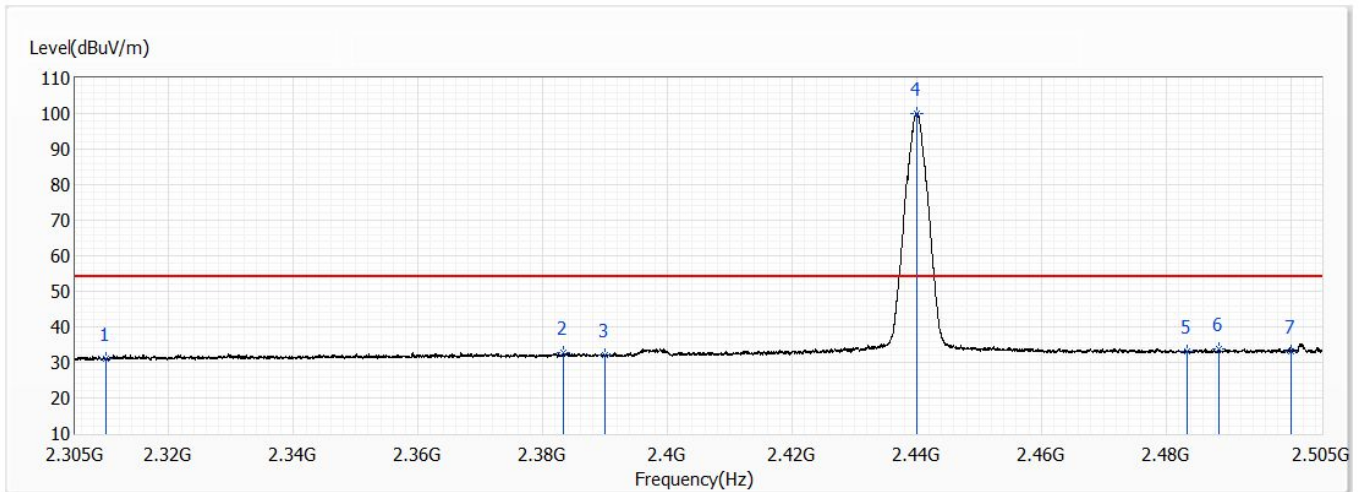


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	40.98	74.00	-33.02	27.83	13.15	PK
2	2383.225	44.43	74.00	-29.57	30.77	13.66	PK
3	2390.000	41.00	74.00	-33.00	27.30	13.70	PK
! 4	2440.025	101.77	74.00	27.77	87.72	14.05	PK
5	2483.500	42.11	74.00	-31.89	27.75	14.36	PK
6	2489.825	45.55	74.00	-28.45	31.15	14.40	PK
7	2500.000	42.97	74.00	-31.03	28.49	14.48	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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	63.0



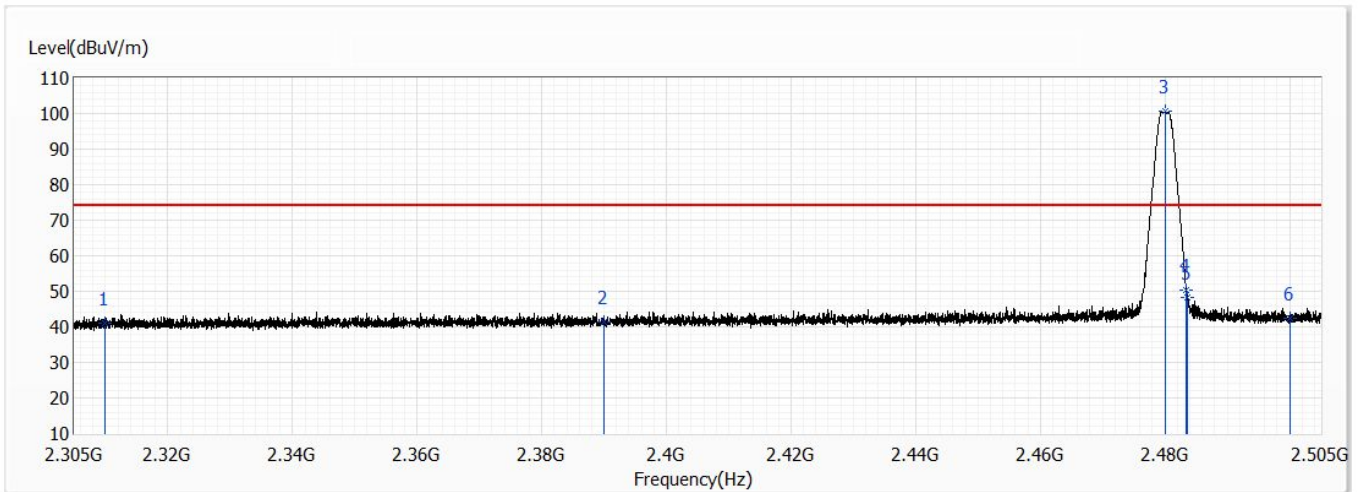
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.89	54.00	-23.11	17.74	13.15	AV
2	2383.250	32.68	54.00	-21.32	19.02	13.66	AV
3	2390.000	31.95	54.00	-22.05	18.25	13.70	AV
! 4	2440.025	100.07	54.00	46.07	86.02	14.05	AV
5	2483.500	33.11	54.00	-20.89	18.75	14.36	AV
6	2488.500	33.77	54.00	-20.23	19.37	14.40	AV
7	2500.000	33.23	54.00	-20.77	18.75	14.48	AV

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.



Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW2M	Humidity (%RH)	63.0

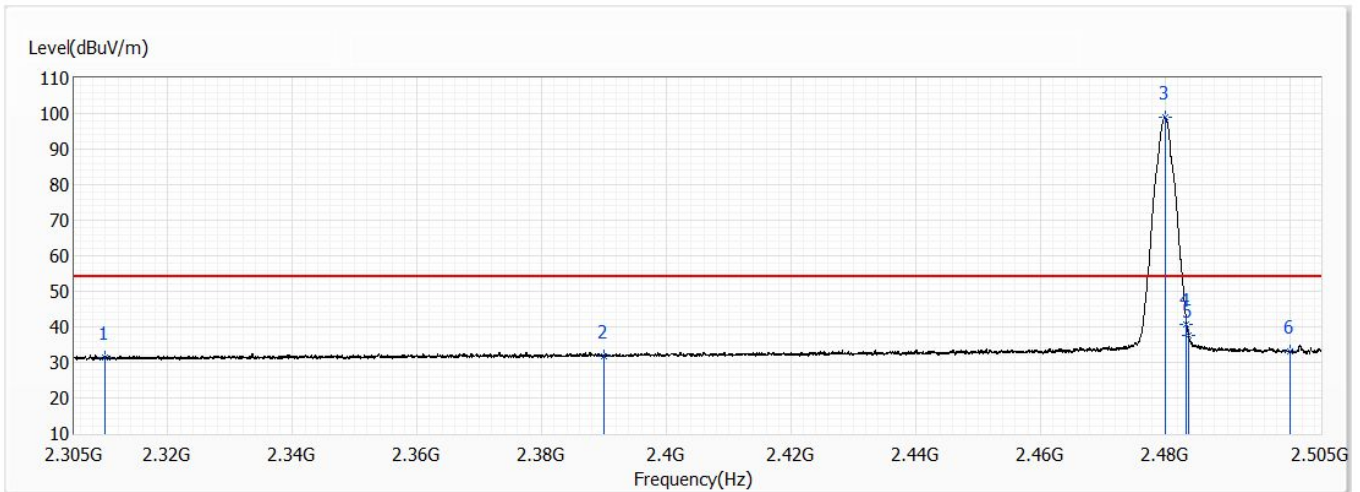


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.10	74.00	-32.90	27.95	13.15	PK
2	2390.000	41.48	74.00	-32.52	27.78	13.70	PK
! 3	2480.025	100.52	74.00	26.52	86.18	14.34	PK
4	2483.500	50.35	74.00	-23.65	35.99	14.36	PK
5	2483.600	48.14	74.00	-25.86	33.78	14.36	PK
6	2500.000	42.58	74.00	-31.42	28.10	14.48	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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW2M	Humidity (%RH)	63.0

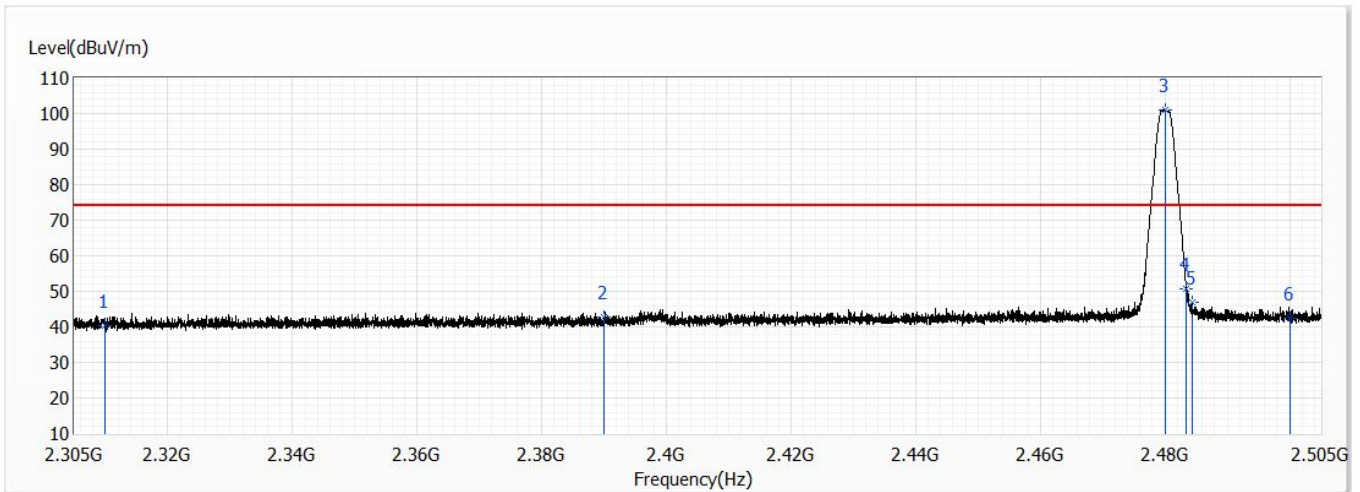


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.32	54.00	-22.68	18.17	13.15	AV
2	2390.000	31.84	54.00	-22.16	18.14	13.70	AV
! 3	2480.050	99.02	54.00	45.02	84.68	14.34	AV
4	2483.500	40.60	54.00	-13.40	26.24	14.36	AV
5	2483.775	37.54	54.00	-16.46	23.18	14.36	AV
6	2500.000	33.07	54.00	-20.93	18.59	14.48	AV

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.

Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW2M	Humidity (%RH)	63.0

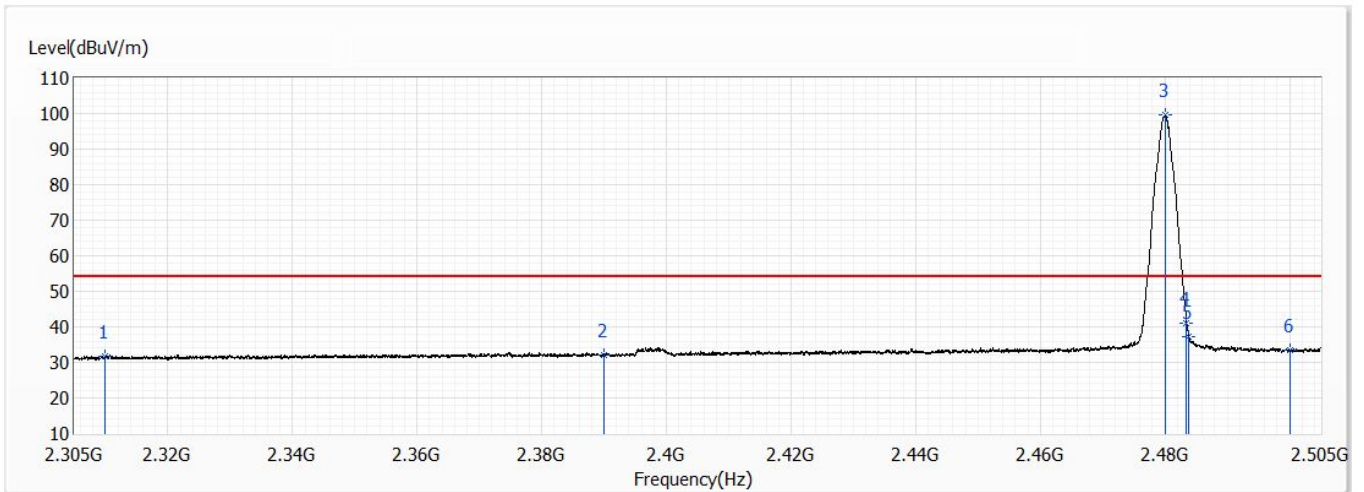


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	40.30	74.00	-33.70	27.15	13.15	PK
2	2390.000	42.60	74.00	-31.40	28.90	13.70	PK
! 3	2480.025	100.99	74.00	26.99	86.65	14.34	PK
4	2483.500	50.58	74.00	-23.42	36.22	14.36	PK
5	2484.300	46.87	74.00	-27.13	32.51	14.36	PK
6	2500.000	42.50	74.00	-31.50	28.02	14.48	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.
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Model No	LVD1	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/5/7
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	24.0
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW2M	Humidity (%RH)	63.0



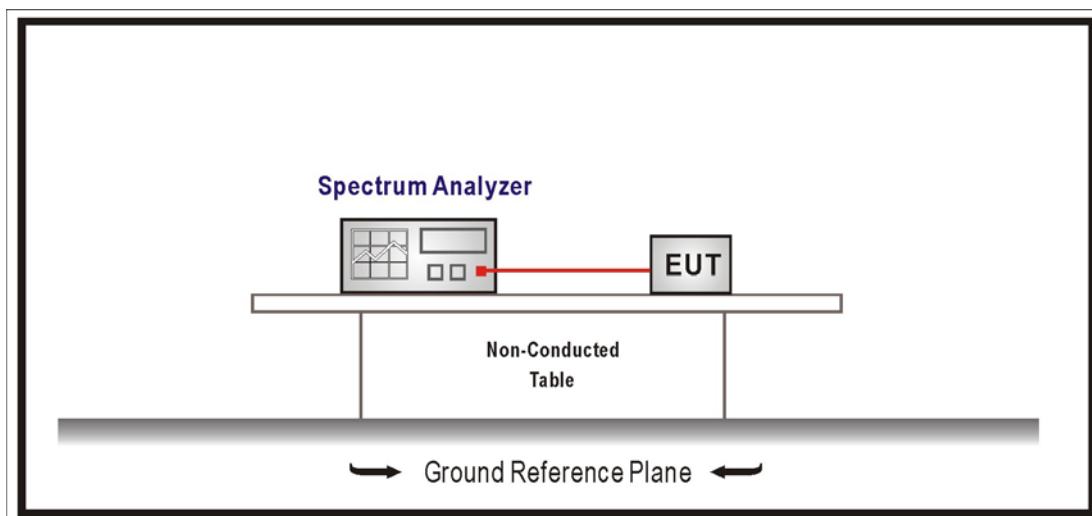
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.83	54.00	-22.17	18.68	13.15	AV
2	2390.000	32.03	54.00	-21.97	18.33	13.70	AV
! 3	2480.025	99.51	54.00	45.51	85.17	14.34	AV
4	2483.500	41.05	54.00	-12.95	26.69	14.36	AV
5	2483.850	37.25	54.00	-16.75	22.89	14.36	AV
6	2500.000	33.32	54.00	-20.68	18.84	14.48	AV

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. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074 D01V05r02 for compliance to FCC 47CFR 15.247 requirements.

### 7.3. Limits

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

Occupied Bandwidth: NA

### 7.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019

## 7.5. Test Result

Product	Smart Display		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230		
Date of Test	2021/05/12	Test Site	SR12-H
Temperature(°C)	24.0	Humidity (%RH)	68.0

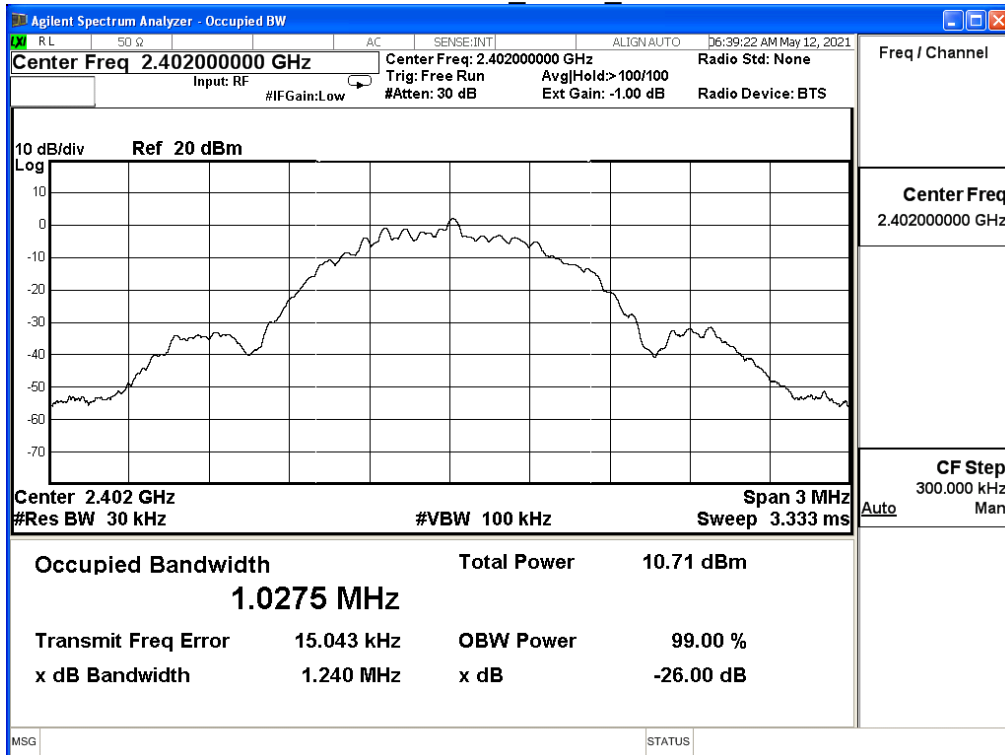
### GFSK\_1M

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
00	2402	1.027	--
19	2440	1.033	--
39	2480	1.028	--

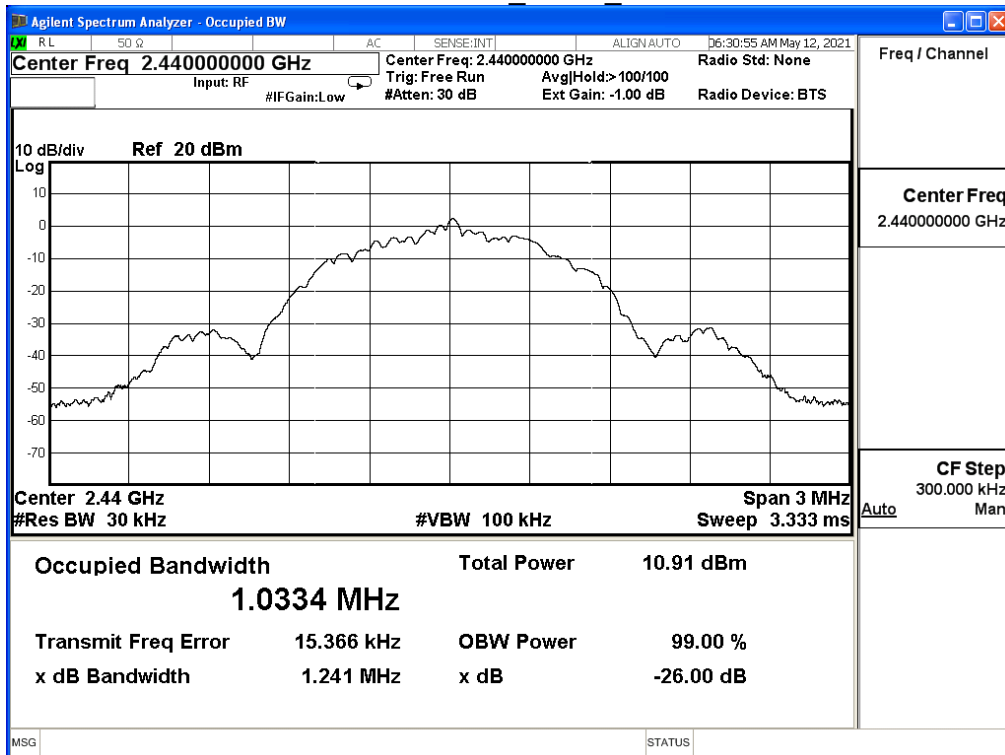
### GFSK\_2M

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
00	2402	2.048	--
19	2440	2.049	--
39	2480	2.042	--

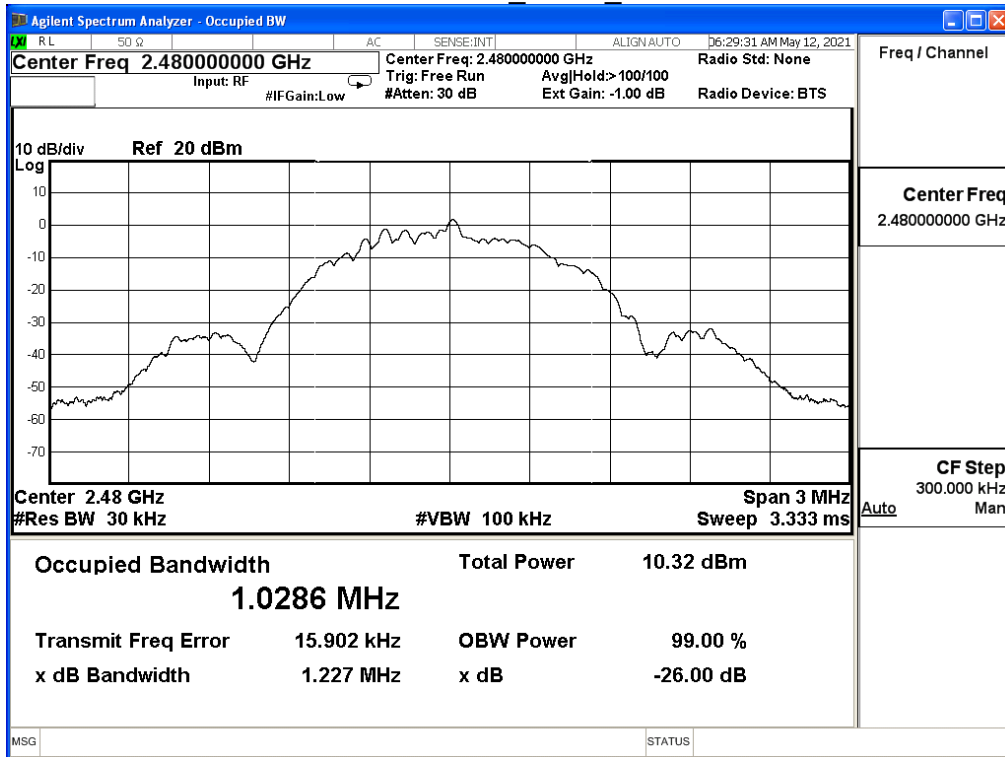
### Channel 00\_GFSK\_1M



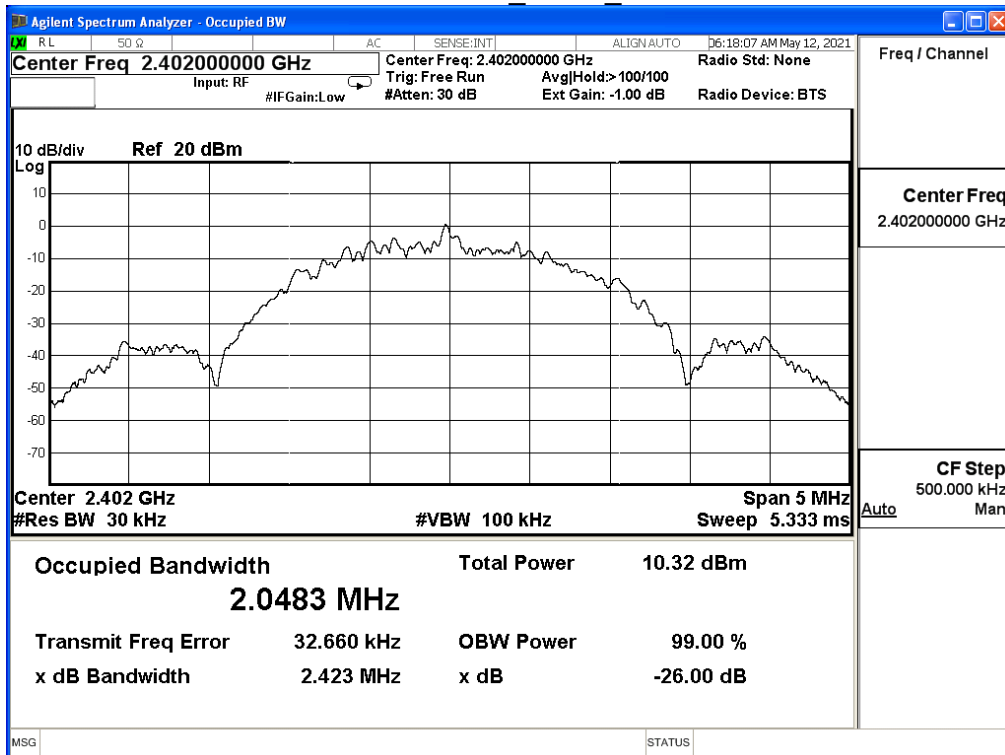
### Channel 19\_GFSK\_1M



### Channel 39\_GFSK\_1M

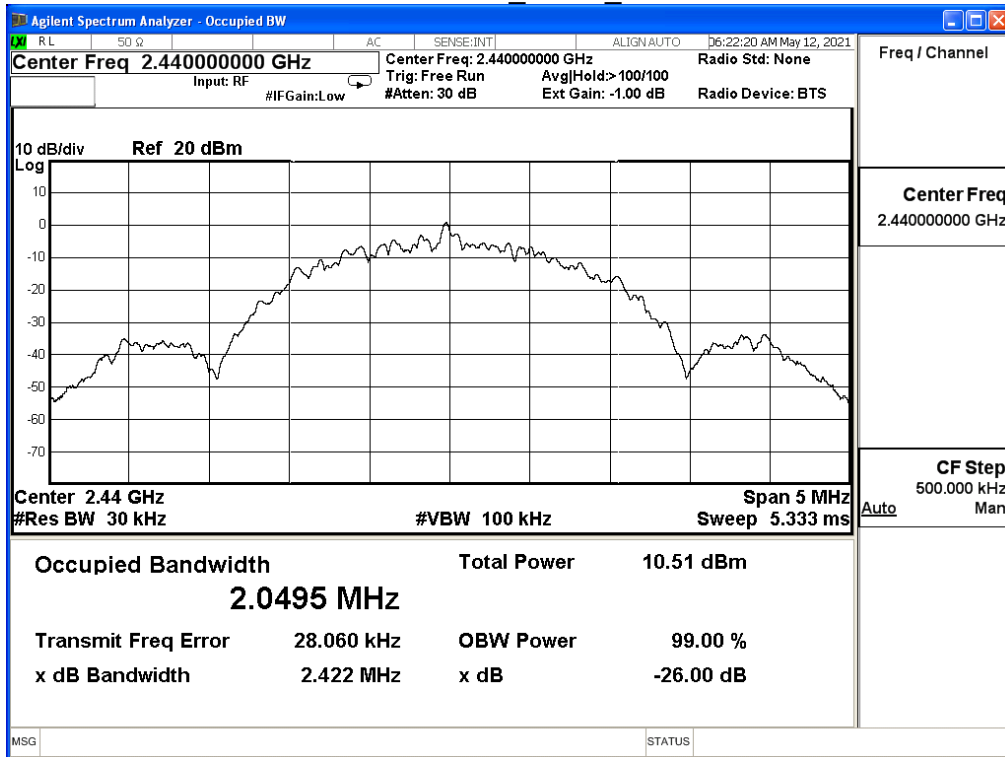


### Channel 00\_GFSK\_2M

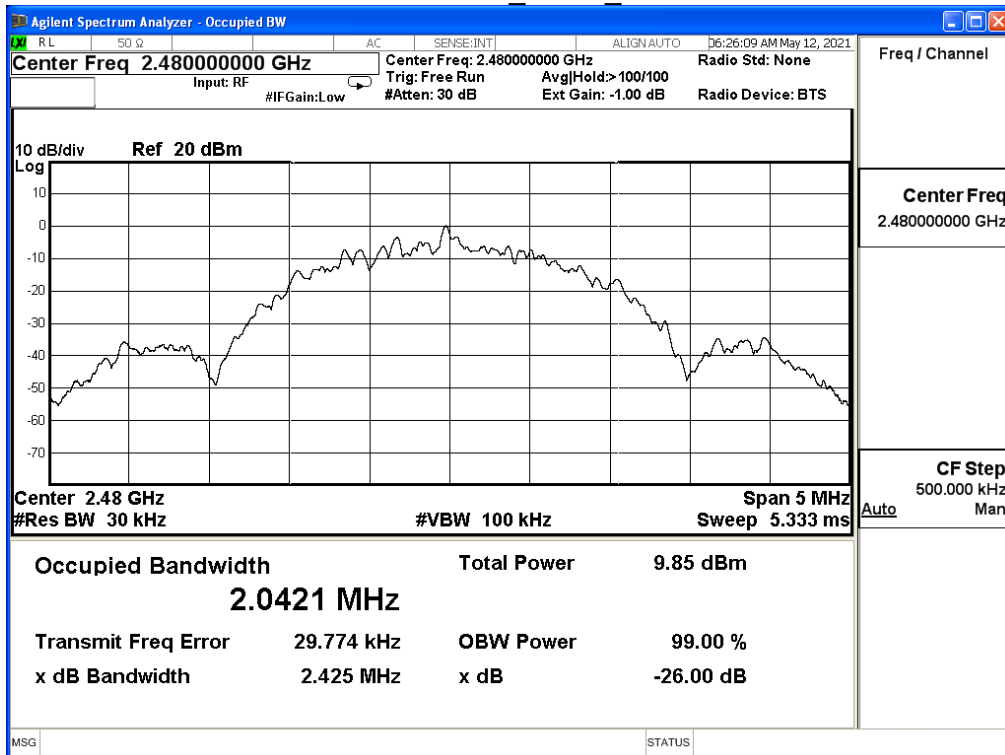




### Channel 19\_GFSK\_2M



### Channel 39\_GFSK\_2M



Product	Smart Display		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230		
Date of Test	2021/05/12	Test Site	SR12-H
Temperature(°C)	24.0	Humidity (%RH)	68.0

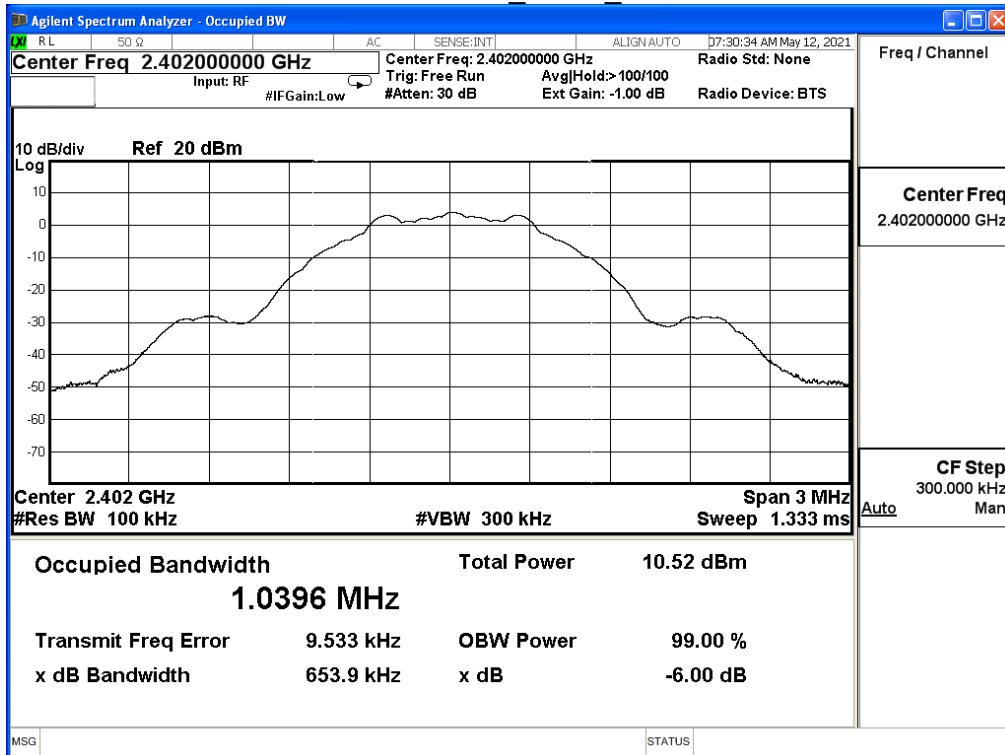
## GFSK\_1M

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
00	2402	0.653	$\geq 0.500$
19	2440	0.660	$\geq 0.500$
39	2480	0.653	$\geq 0.500$

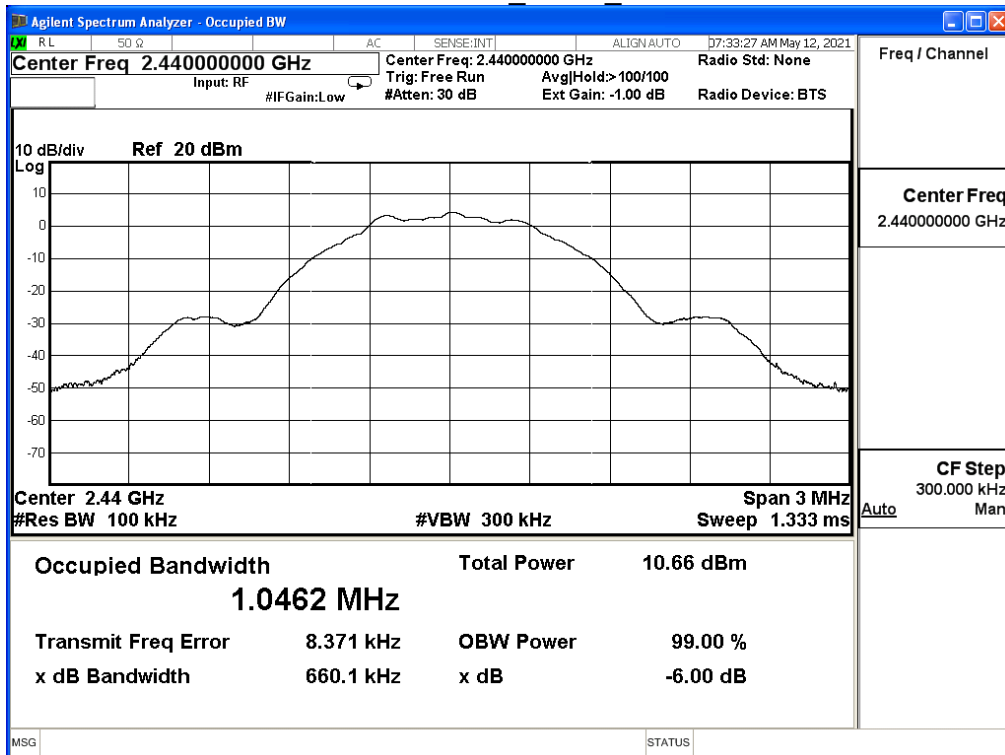
## GFSK\_2M

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
00	2402	1.126	$\geq 0.500$
19	2440	1.128	$\geq 0.500$
39	2480	1.118	$\geq 0.500$

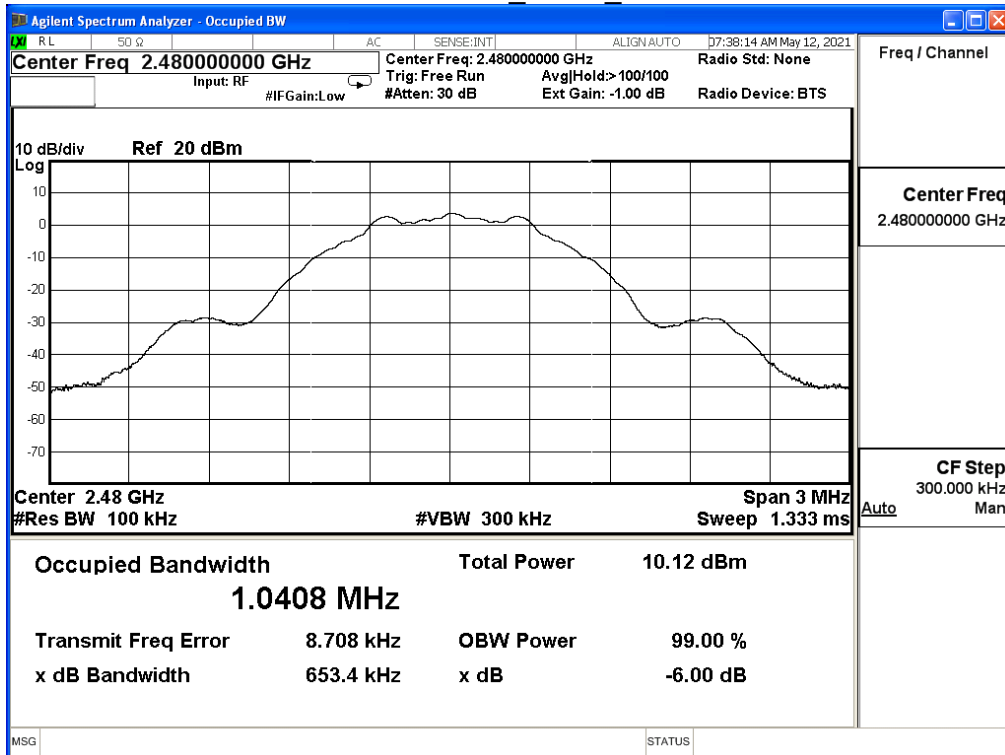
### Channel 00\_GFSK\_1M



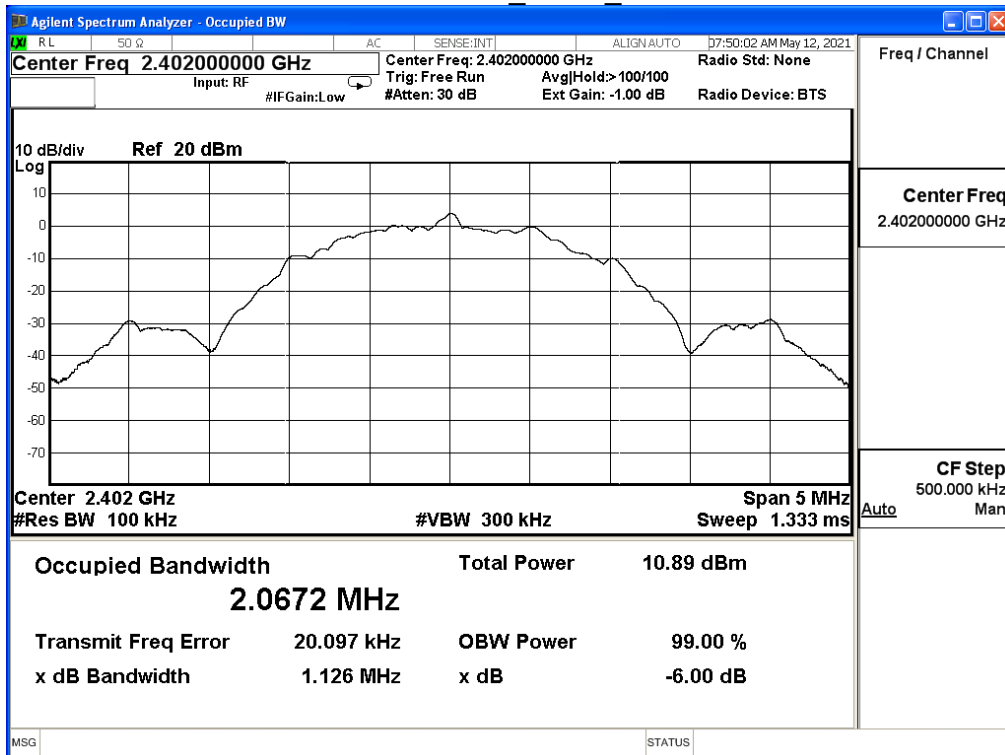
### Channel 19\_GFSK\_1M



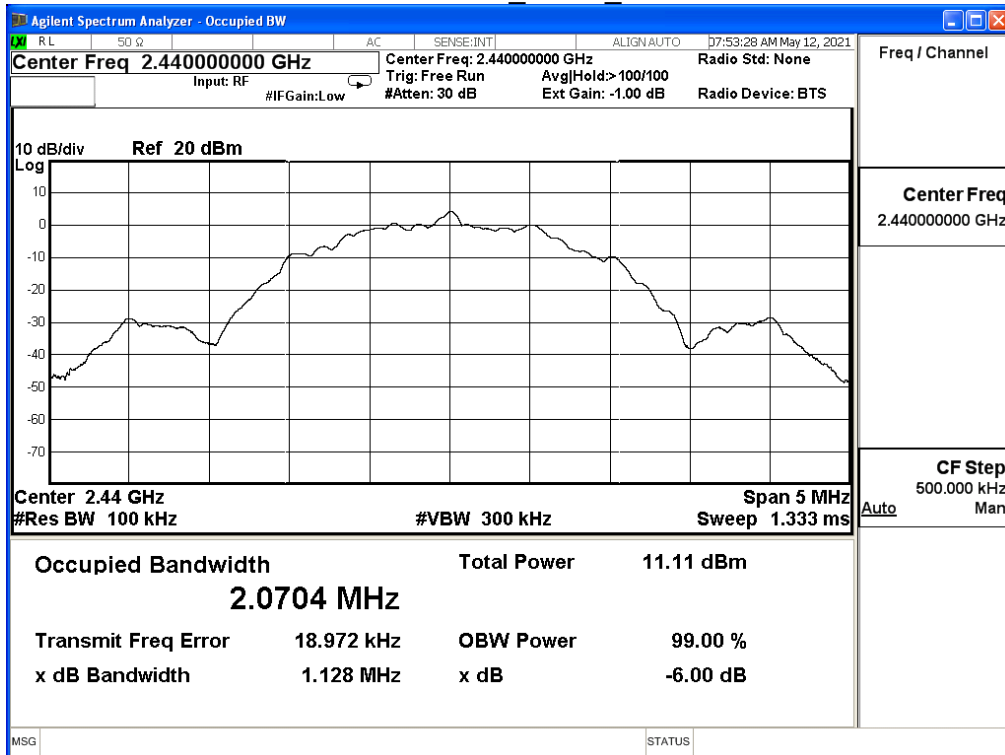
### Channel 39\_GFSK\_1M



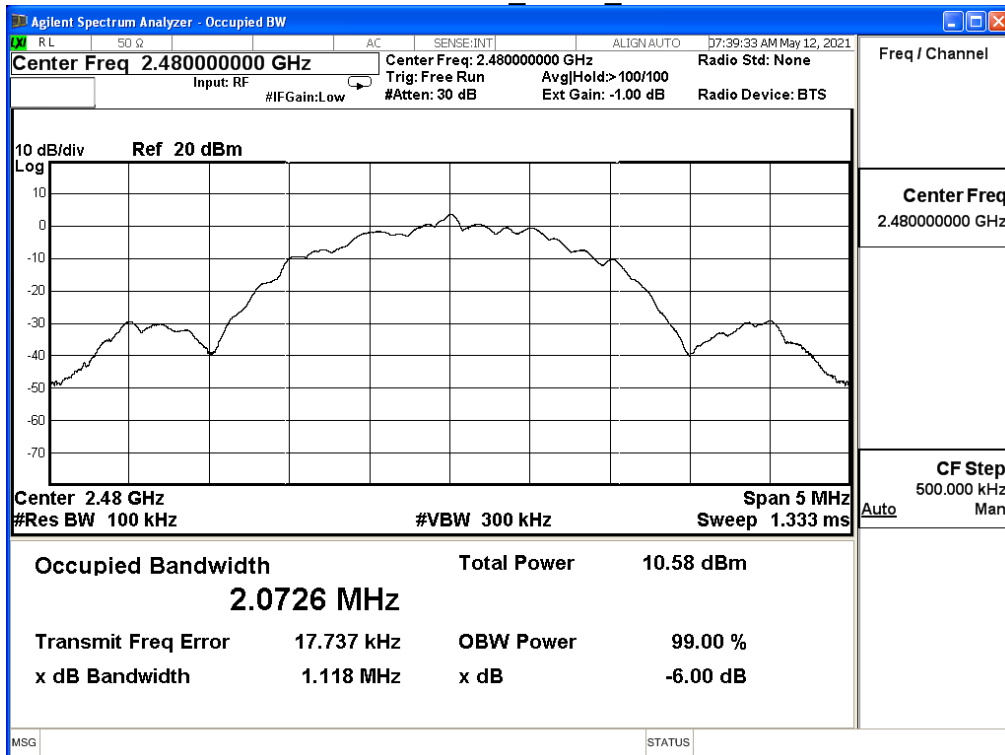
### Channel 00\_GFSK\_2M



### Channel 19\_GFSK\_2M

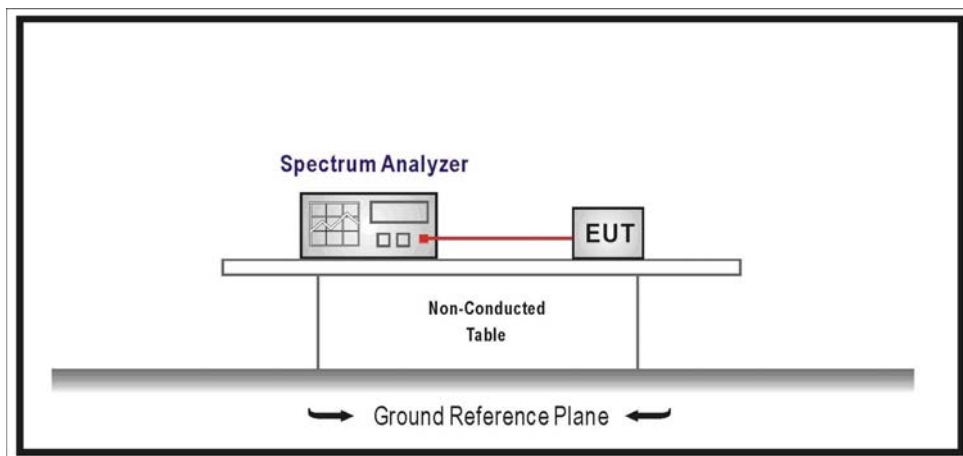


### Channel 39\_GFSK\_2M



## 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 KDB 558074 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	Smart Display		
Test Item	Power Density		
Test Mode	Mode 2: Transmit_Adapter_1A100-US1230		
Date of Test	2021/05/12	Test Site	SR12-H
Temperature(°C)	24.0	Humidity (%RH)	68.0

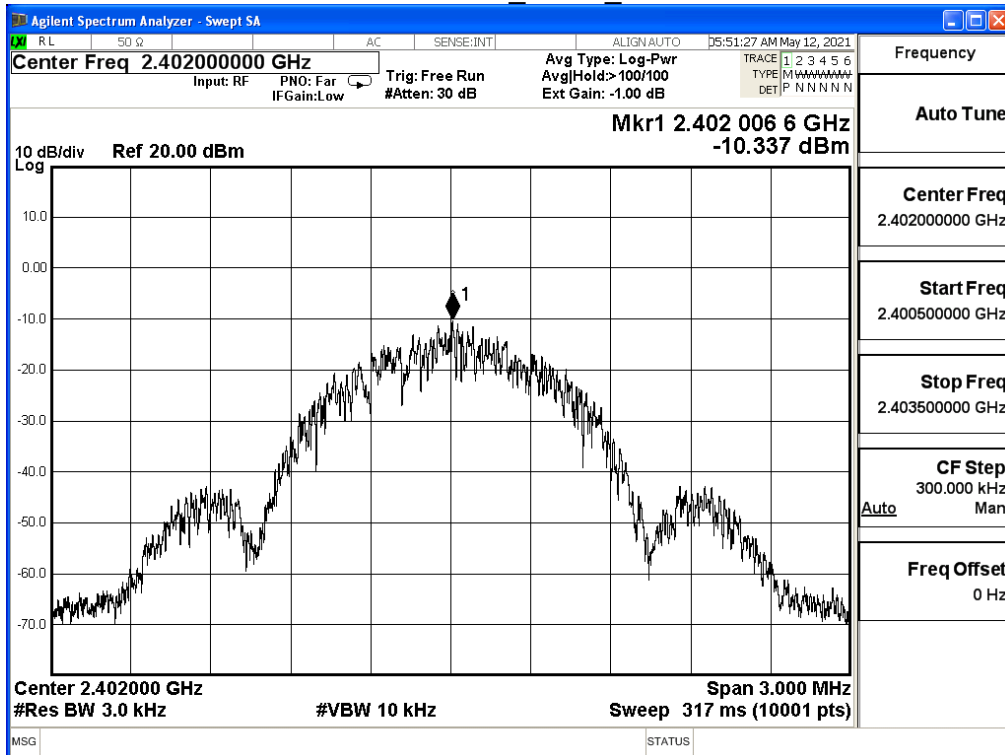
### GFSK\_1M

Channel No.	Frequency (MHz)	Measure Value (dBm/3kHz)	Limit (dBm/3kHz)
00	2402	-10.337	≤8.000
19	2440	-10.969	≤8.000
39	2480	-10.617	≤8.000

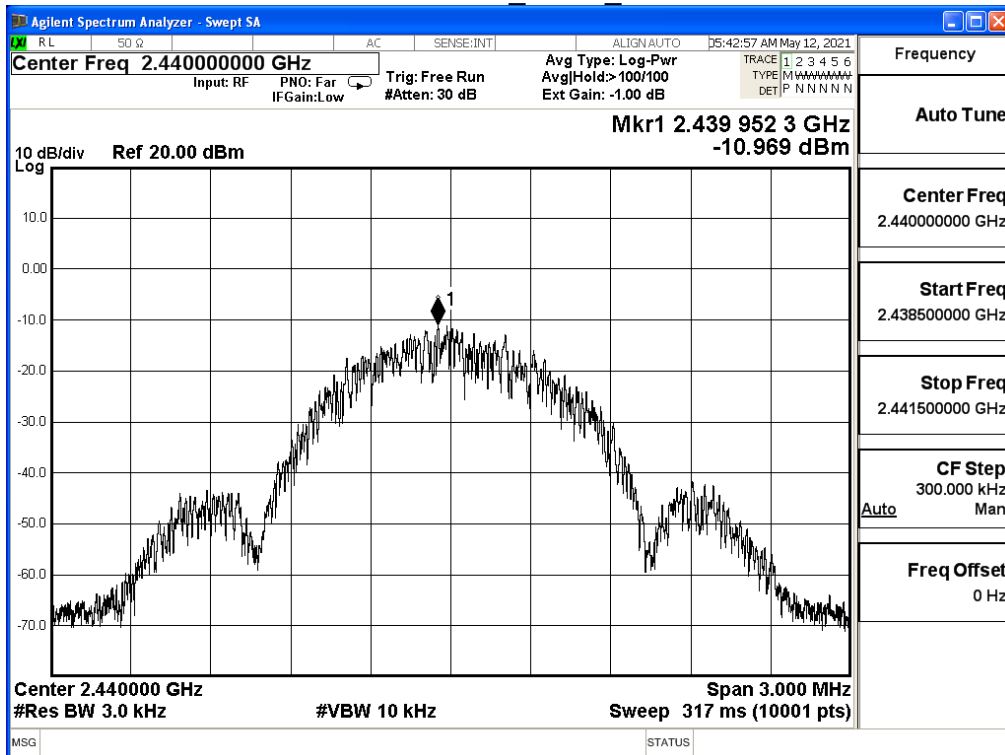
### GFSK\_2M

Channel No.	Frequency (MHz)	Measure Value (dBm/3kHz)	Limit (dBm/3kHz)
00	2402	-12.450	≤8.000
19	2440	-12.462	≤8.000
39	2480	-14.022	≤8.000

Channel 00\_GFSK\_1M

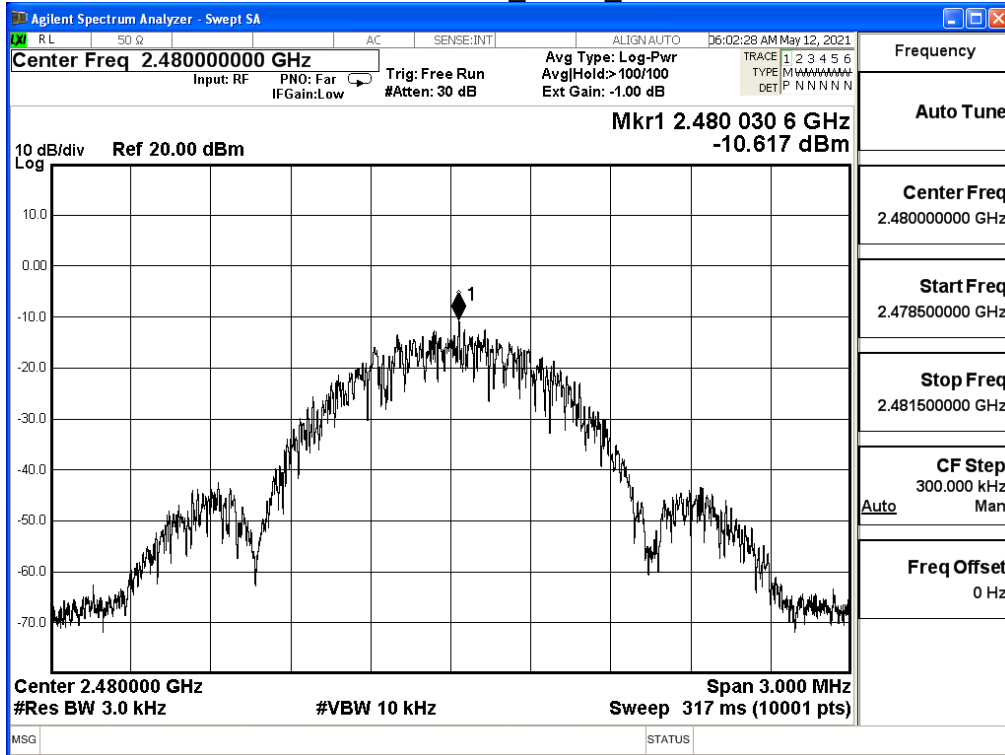


Channel 19\_GFSK\_1M

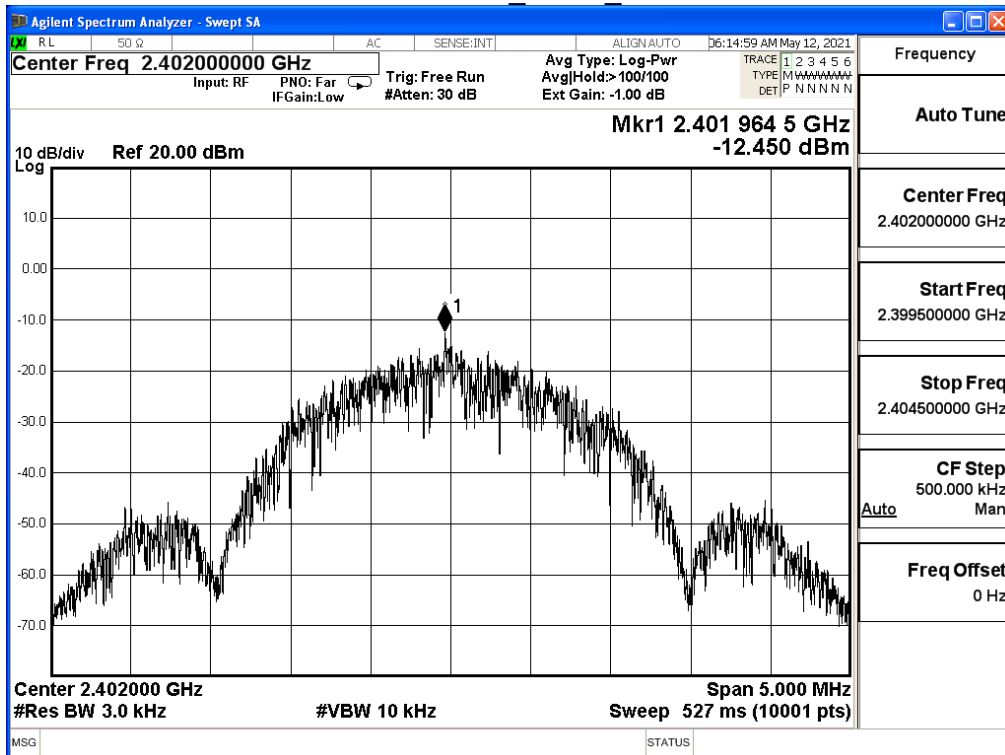




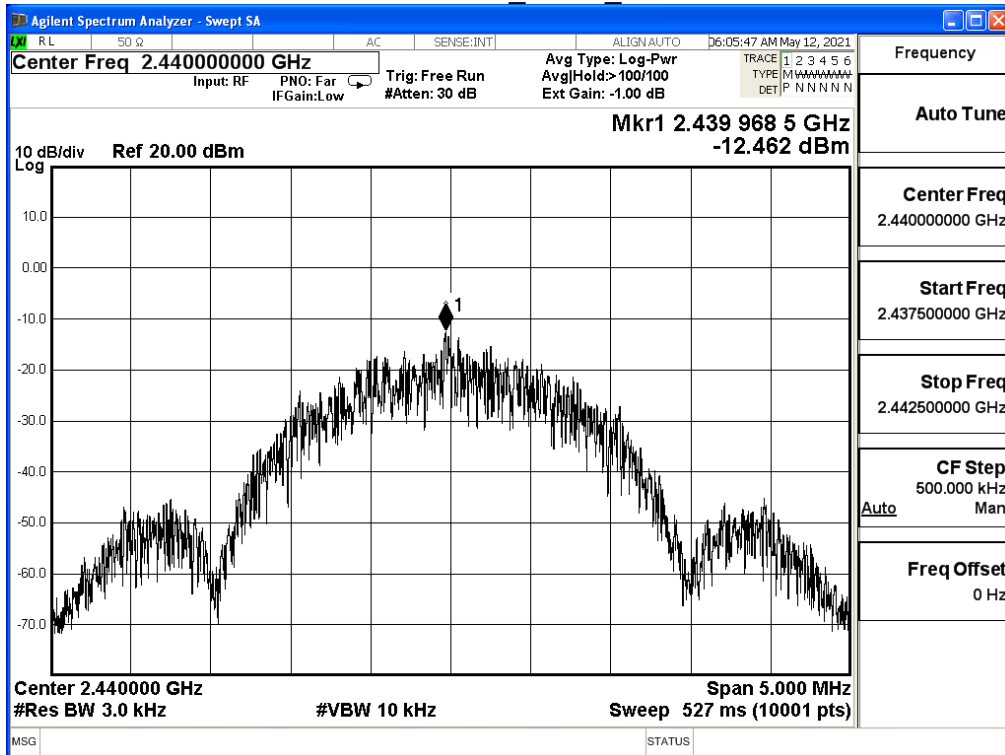
### Channel 39\_GFSK\_1M



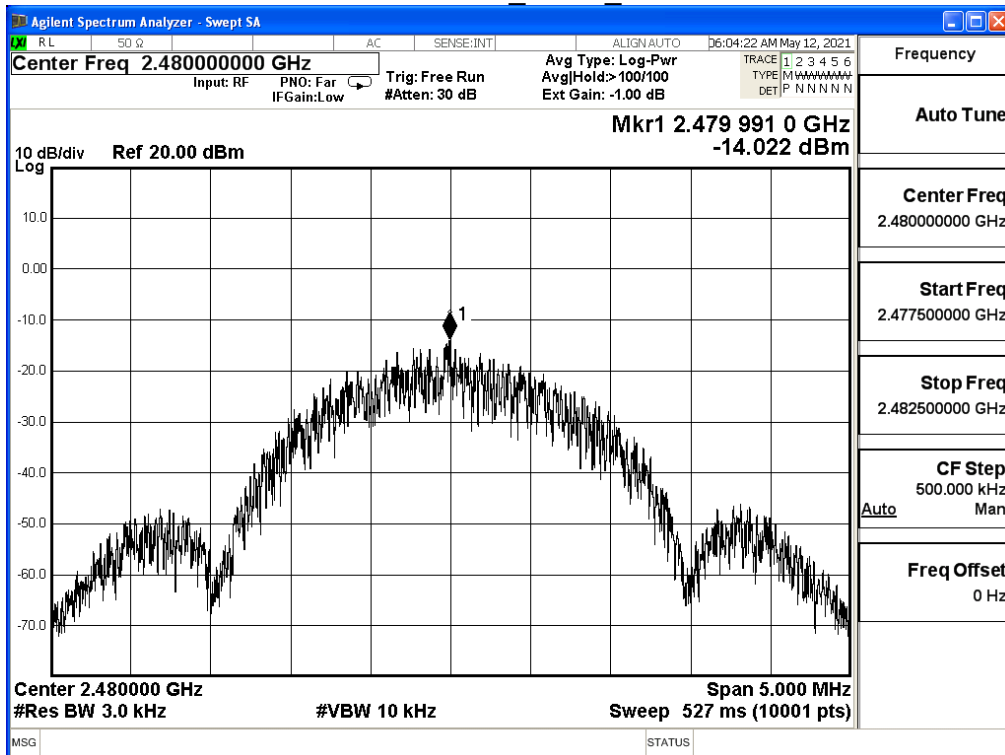
### Channel 00\_GFSK\_2M



### Channel 19\_GFSK\_2M



### Channel 39\_GFSK\_2M



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## Attachment 2

### ➤ Radiated Emission Co-location