

FCC Test Report

Product Name : Connectivity Module
Trade Name : Husqvarna
Model No. : HCM500
FCC ID : ZASHCM500

Applicant : HUSQVARNA AB
Address : 561 82 HUSKVARNA Sweden

Date of Receipt : Dec. 22, 2020
Issued Date : Jun. 29, 2021
Report No. : 20C0830R-E3032110108
Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date: Jun. 29, 2021

Report No. : 20C0830R-E3032110108



Product Name : Connectivity Module
Applicant : HUSQVARNA AB
Address : 561 82 HUSKVARNA Sweden
Manufacturer : HUSQVARNA AB
Address : 561 82 HUSKVARNA Sweden
Model No. : HCM500
Trade Name : Husqvarna
FCC ID : ZASHCM500
EUT Rated Voltage : DC 6-58V
Test Voltage : DC 48V
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 :



(Demi Chang / Senior Engineering Adm. Specialist)

Tested By :



(Lion Wang / Senior Engineer)

Approved By :



(Louis Hsu / Deputy Manager)

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Jun. 29, 2021

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1. General Information

1.1. EUT Description

Product Name	Connectivity Module
Trade Name	Husqvarna
Model No.	HCM500
Frequency Range	2402~2480MHz
Channel Number	40 Channels
Type of Modulation	GFSK

Accessories Information	
Power Line (M5 - 5 pin)	Non-Shielded, 3.0m
Signal Cable (M8 - 8 pin)	Non-Shielded, 3.0m

Ant. No.	Position	Manufacturer	Model	Ant. Type	Ant. Gain
1	Internal	Green Antenna	GA123416BL02	PCB	2.23141dBi
2	External	TE	2363696-5	Dipole	2dBi

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 Connectivity Module support BT5.0, LTE Cat-M1 Band 2/4/5/12/13/26 & GSM 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 2: Receive
-----------	-------------------------------------

Test Items	Modulation	Channel	Result
Conducted Emission	GFSK	00	--
Maximum peak conducted	GFSK	00/19/39	Complies
Radiated Emission	GFSK	00/19/39	Complies
RF antenna conducted test	GFSK	00/19/39	Complies
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

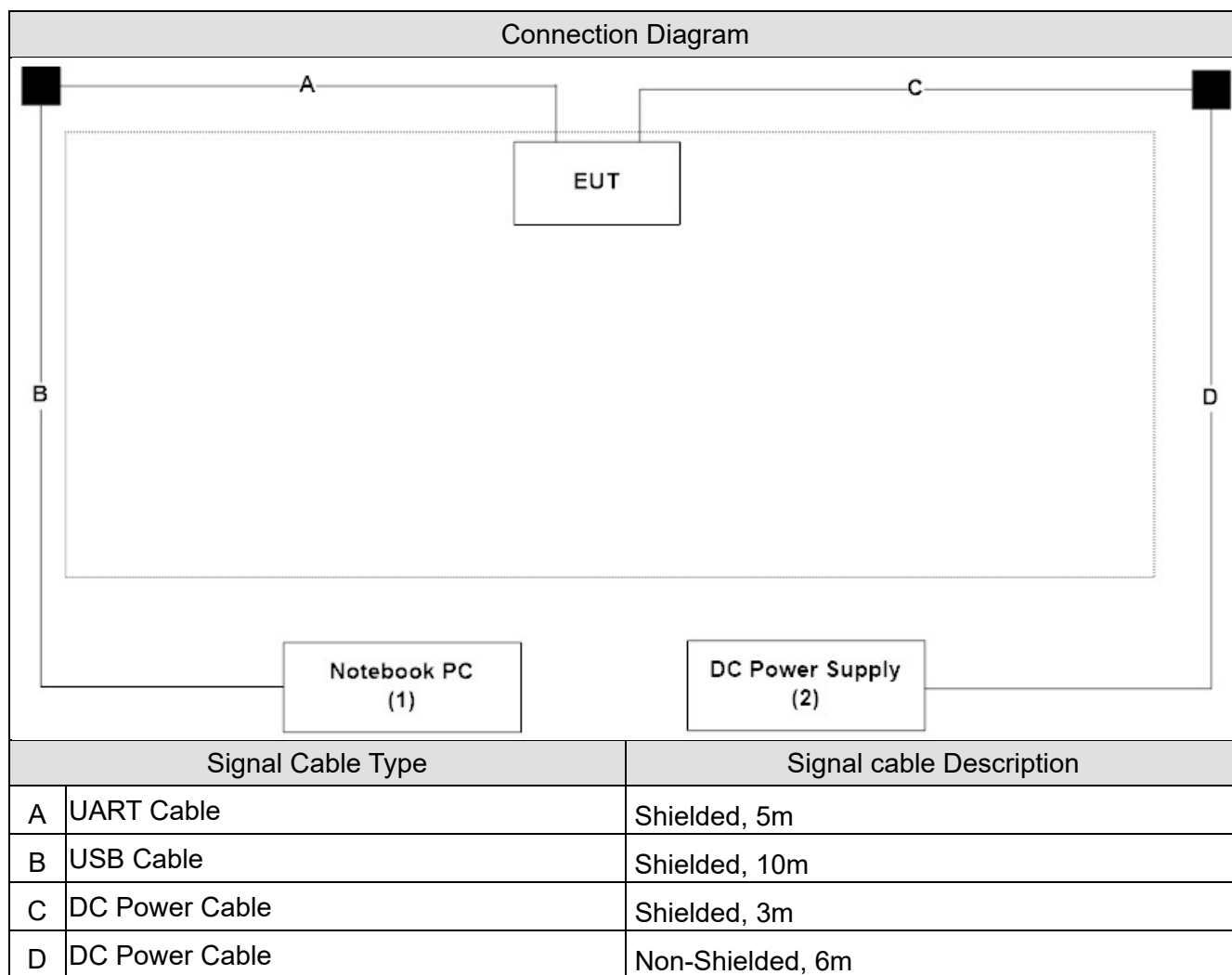
Note: Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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	ASUS	E402S	GBN0CV14W050478	DoC	Shielded, 2m
2 DC Power Supply	Topward	6030D	809508	DoC	Non-Shielded, 1.8m

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Set the EUT as shown in Section 1.4.
2	Execute the control command from software "TeraTerm".
3	Configure test mode, test channel and data rate.
4	Let the EUT start transmitting and receiving signal continuously.
5	Verify that device is working 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	15 - 35	--
Humidity (%RH)	Conducted Emission	25 - 75	
Temperature (°C)	FCC PART 15 C 15.247	15 - 35	1
Humidity (%RH)	Maximum peak conducted output power	25 - 75	
Temperature (°C)	FCC PART 15 C 15.247	15 - 35	1
Humidity (%RH)	Radiated Emission	25 - 75	
Temperature (°C)	FCC PART 15 C 15.247	15 - 35	1
Humidity (%RH)	RF antenna conducted test	25 - 75	
Temperature (°C)	FCC PART 15 C 15.247	15 - 35	1
Humidity (%RH)	Radiated Emission Band Edge	25 - 75	
Temperature (°C)	FCC PART 15 C 15.247	15 - 35	1
Humidity (%RH)	Occupied Bandwidth & DTS Bandwidth	25 - 75	
Temperature (°C)	FCC PART 15 C 15.247	15 - 35	1
Humidity (%RH)	Power Density	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

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	2020/03/30 2021/03/31	2021/03/29 2022/03/30
Signal Analyzer	R&S	FSVA40	101435	2020/06/24	2021/06/23
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21 2021/01/25	2021/02/20 2022/01/24
Bilog Antenna	Teseq	CBL6112D	23191	2020/06/12 2021/06/26	2021/06/11 2022/02/25
Horn Antenna	Schwarzbeck	BBHA 9120D	01640	2020/09/17	2021/09/16
Horn Antenna	Schwarzbeck	BBHA 9170	203	2020/03/09 2021/03/11	2021/03/08 2022/03/10
Pre-Amplifier	EMCI	EMC01820I	980364	2020/09/14	2021/09/13
Pre-Amplifier	EMCI	EMC0031835	980233	2020/12/07	2021/12/06
Pre-Amplifier	DEKRA	AP-400C	201801231	2020/11/16	2021/11/15
Band Reject Filter	Micro-Tronics	BRM50702	G192	2020/03/09 2021/03/04	2021/03/08 2022/03/03
Wideband Radio Communication Tester	R&S	CMW500	106071	2020/02/03 2021/01/27	2021/02/02 2022/01/26
Wireless Conn. Tseter	R&S	CMW500	157118	2020/07/23	2021/07/22
Coaxial Cable(10m)	Suhner	SF102_SF104	CB4-H	2020/04/25 2021/04/25	2021/04/24 2022/04/24
DEKRA Testing System	DEKRA	Version 2.0	CB4-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	2020/04/15	2021/04/14
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29

Radiated Emission Band Edge / 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	2020/03/30 2021/03/31	2021/03/29 2022/03/30
Signal Analyzer	R&S	FSVA40	101435	2020/06/24	2021/06/23
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21 2021/01/25	2021/02/20 2022/01/24
Bilog Antenna	Teseq	CBL6112D	23191	2020/06/12 2021/06/26	2021/06/11 2022/02/25
Horn Antenna	Schwarzbeck	BBHA 9120D	01640	2020/09/17	2021/09/16
Horn Antenna	Schwarzbeck	BBHA 9170	203	2020/03/09 2021/03/11	2021/03/08 2022/03/10
Pre-Amplifier	EMCI	EMC01820I	980364	2020/09/14	2021/09/13
Pre-Amplifier	EMCI	EMC0031835	980233	2020/12/07	2021/12/06
Pre-Amplifier	DEKRA	AP-400C	201801231	2020/11/16	2021/11/15
Band Reject Filter	Micro-Tronics	BRM50702	G192	2020/03/09 2021/03/04	2021/03/08 2022/03/03
Wideband Radio Communication Tester	R&S	CMW500	106071	2020/02/03 2021/01/27	2021/02/02 2022/01/26
Wireless Conn. Tseter	R&S	CMW500	157118	2020/07/23	2021/07/22
Coaxial Cable(10m)	Suhner	SF102_SF104	CB4-H	2020/04/25 2021/04/25	2021/04/24 2022/04/24
DEKRA Testing System	DEKRA	Version 2.0	CB4-H	NA	NA

Occupied Bandwidth & 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	2020/04/15 2021/03/29	2021/04/14 2022/03/28
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30 2021/03/31	2021/03/29 2022/03/30

Power Density / SR12-H

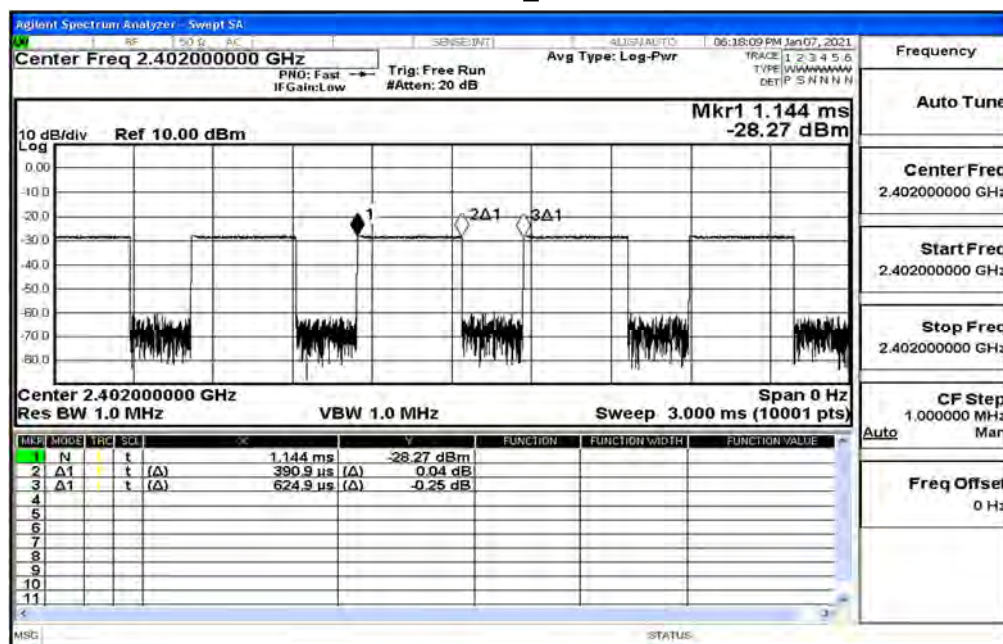
Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2020/04/15	2021/04/14
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29

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

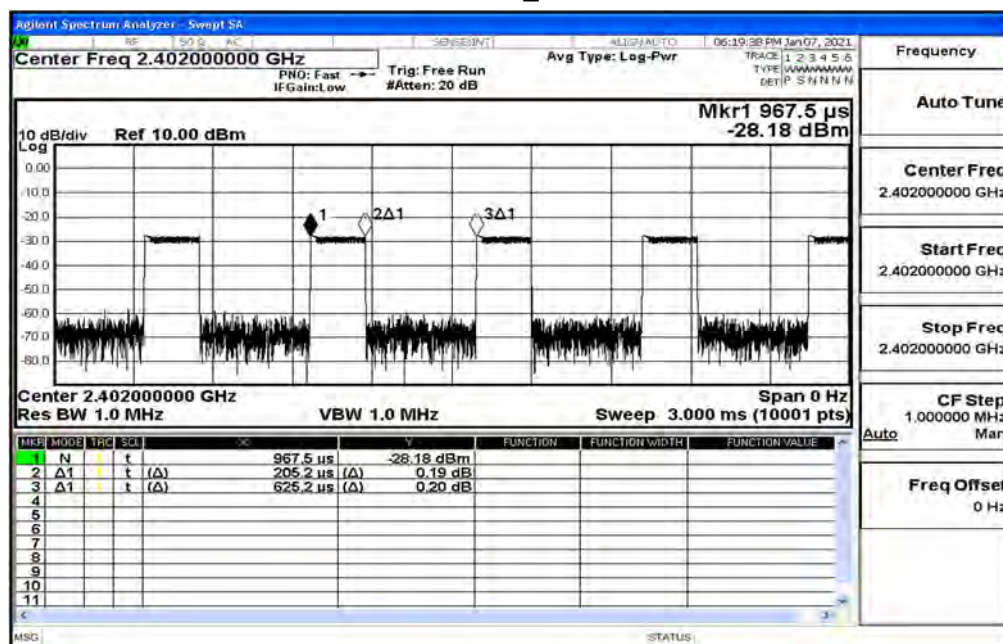
1.9. Duty cycle

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB) linear voltage	Duty Factor (dB) Power	1/T Minimum VBW (kHz)
BT5.0_1M	0.3909	0.6249	62.55%	4.074897	2.04	2.558
BT5.0_2M	0.2052	0.6252	32.82%	9.676832	4.84	4.873

BT5.0_1M



BT5.0_2M

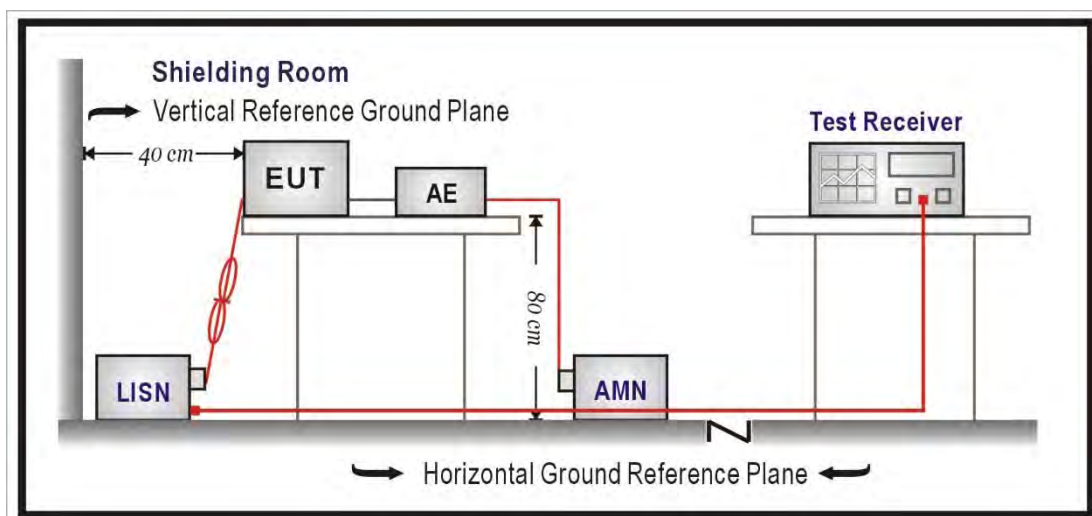


1.10. Uncertainty

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 Band Edge	± 3.65 dB
Occupied Bandwidth & DTS Bandwidth	± 50 Hz
Power Density	± 1.27 dB

2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

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

2.3. Test Procedure

The EUT 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

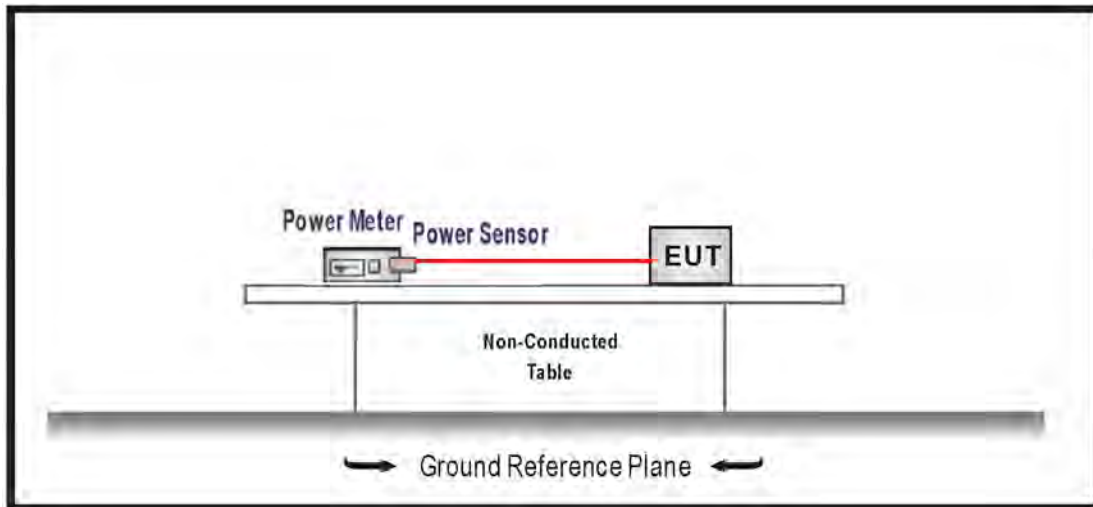
According to FCC Part 15 Subpart C Paragraph 15.207: 2019.

2.5. Test Result

EUT using DC input voltage, so the project does not have to test for testing.

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	Connectivity Module		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit		
Date of Test	2021/01/11~2021/01/13	Test Site	SR12-H
Temperature(°C)	18.0	Humidity (%RH)	58.0

GFSK_(Internal Antenna)_BT5.0_1M

Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
00	2402	-1.240	≤30
19	2440	-1.220	≤30
39	2480	-1.110	≤30

GFSK_(Internal Antenna)_BT5.0_2M

Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
00	2402	3.640	≤30
19	2440	3.540	≤30
39	2480	3.450	≤30

GFSK_(External Antenna)_BT5.0_1M

Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
00	2402	-4.230	≤30
19	2440	-4.520	≤30
39	2480	-0.890	≤30

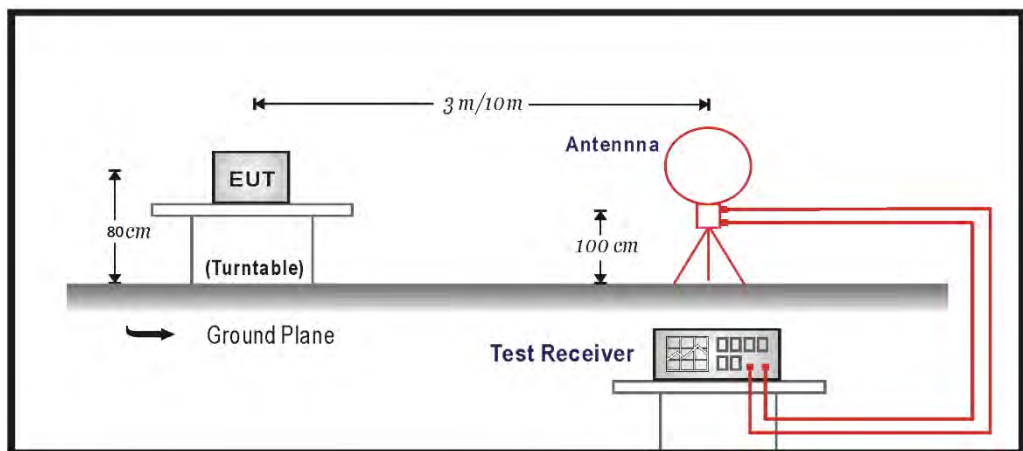
GFSK_(External Antenna)_BT5.0_2M

Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
00	2402	0.420	≤30
19	2440	0.300	≤30
39	2480	0.410	≤30

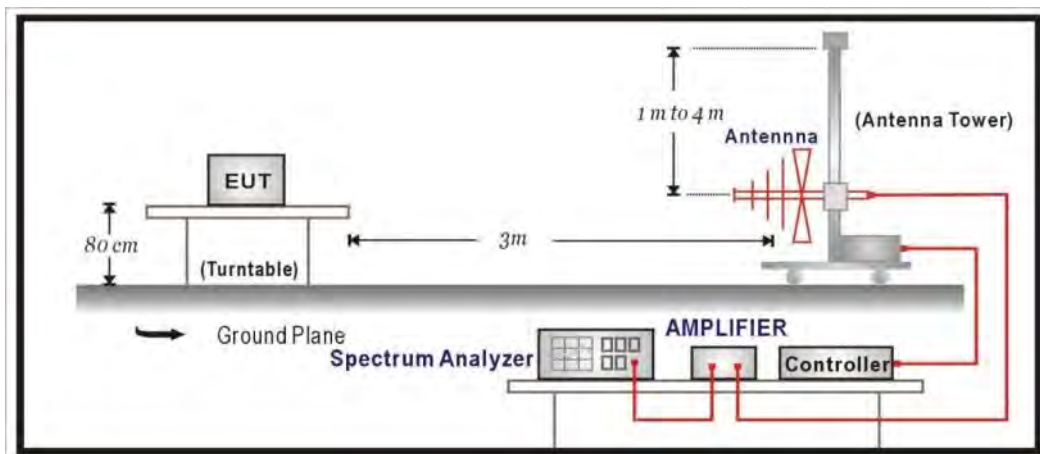
4. Radiated Emission

4.1. Test Setup

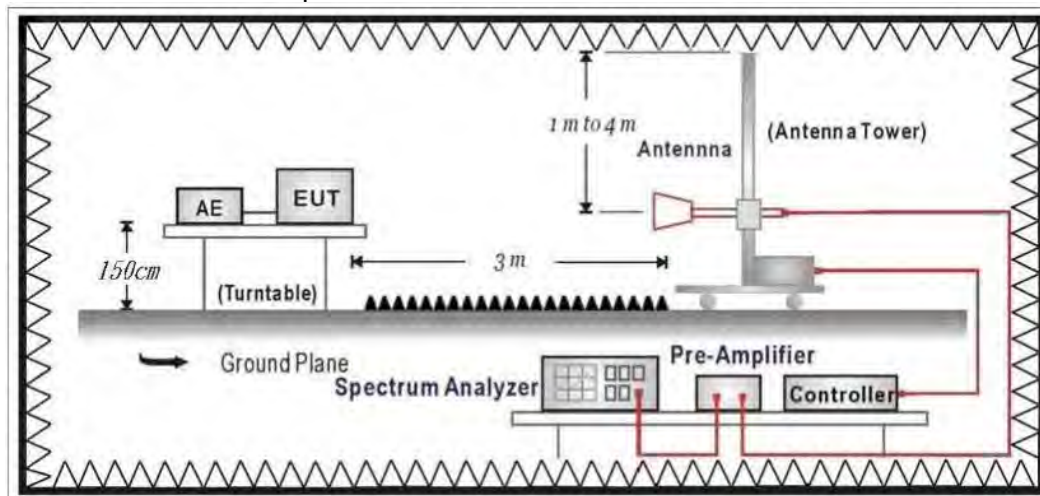
Under 30MHz Test Setup:



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 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

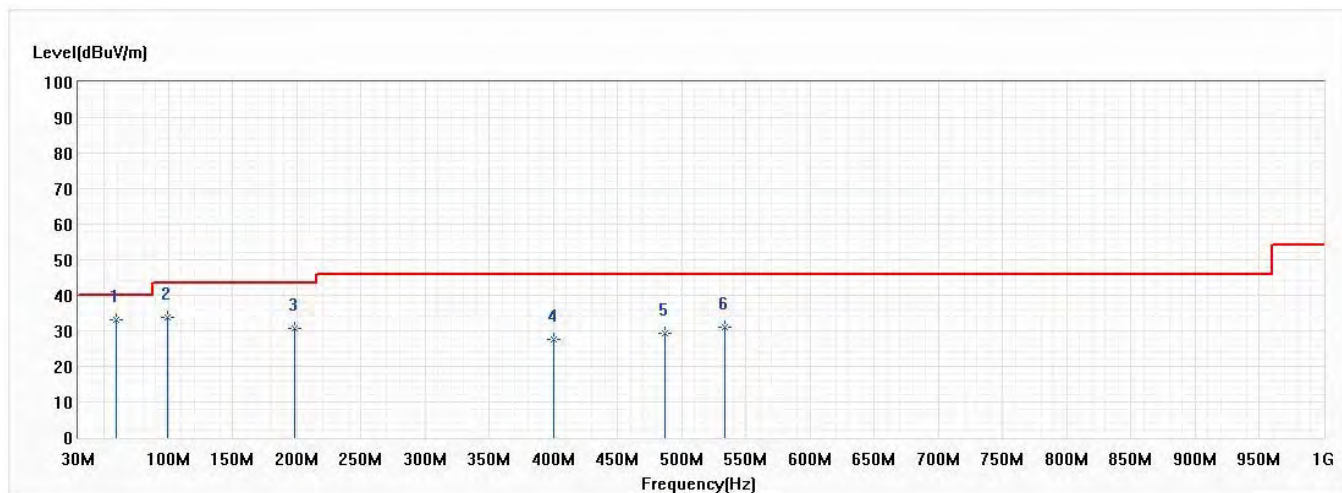
According to FCC Part 15 Subpart C Paragraph 15.247: 2019.

4.5. Test Result

30MHz-1GHz Spurious

(Internal Antenna_BT5.0_1M)

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/12
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0, Ch 39,2.48G,BW1M	Humidity (%RH)	56.1

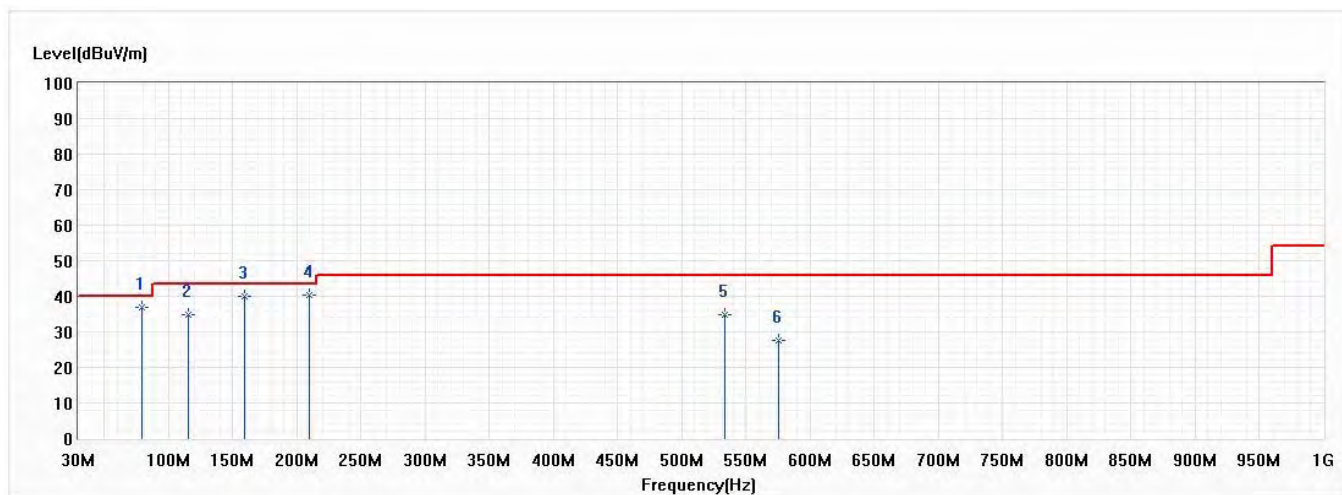


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	59.706	33.22	40.00	-6.78	41.61	-8.39	QP
2	99.234	33.63	43.52	-9.89	38.23	-4.60	QP
3	198.053	30.64	43.52	-12.88	35.55	-4.91	QP
4	399.934	27.68	46.02	-18.34	25.67	2.01	QP
5	486.628	29.42	46.02	-16.60	25.86	3.56	QP
6	533.309	31.18	46.02	-14.84	26.98	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.

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/12
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0, Ch 39,2.48G,BW1M	Humidity (%RH)	56.1



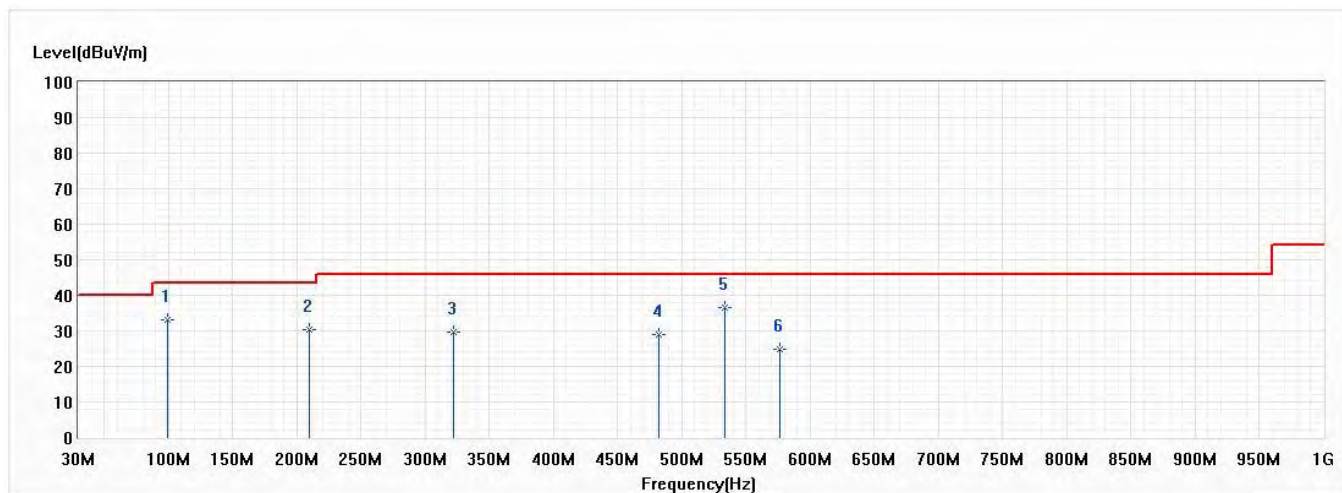
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	79.834	37.00	40.00	-3.00	44.77	-7.77	QP
2	116.088	34.95	43.52	-8.57	37.70	-2.75	QP
3	159.859	40.11	43.52	-3.41	44.24	-4.13	QP
4	209.814	40.40	43.52	-3.12	44.69	-4.29	QP
5	533.309	34.84	46.02	-11.18	30.64	4.20	QP
6	575.868	27.48	46.02	-18.54	22.72	4.76	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.

(Internal Antenna_BT5.0_2M)

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/12
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	56.1

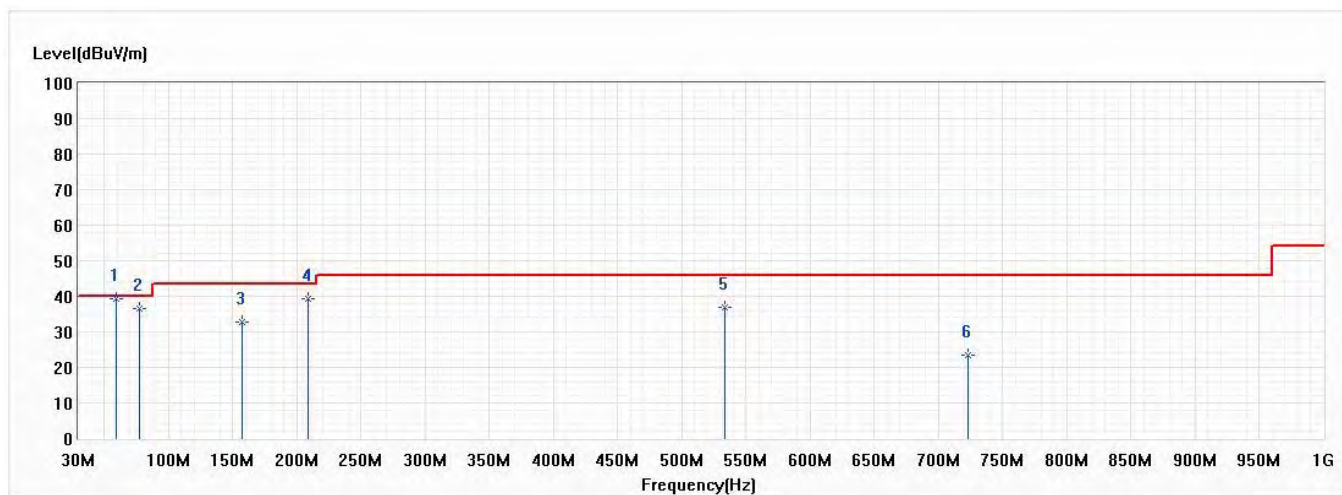


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	99.234	32.95	43.52	-10.57	37.55	-4.60	QP
2	209.935	30.30	43.52	-13.22	34.58	-4.28	QP
3	322.213	29.49	46.02	-16.53	29.99	-0.50	QP
4	482.505	28.92	46.02	-17.10	25.43	3.49	QP
* 5	533.309	36.50	46.02	-9.52	32.30	4.20	QP
6	575.989	24.93	46.02	-21.09	20.17	4.76	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/12
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	56.1



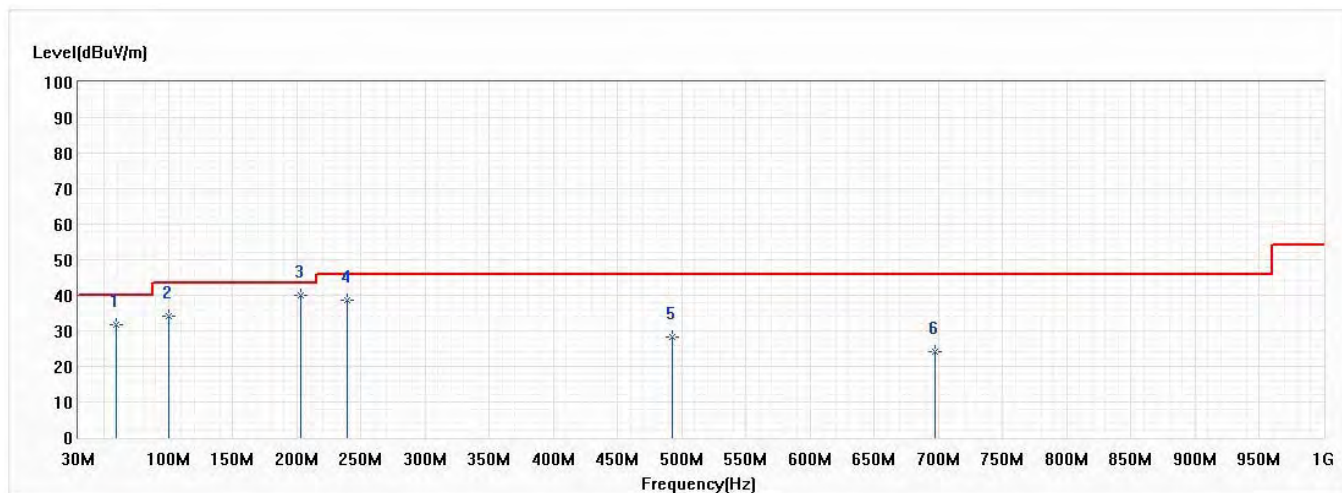
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	59.585	39.36	40.00	-0.64	47.74	-8.38	QP
2	77.773	36.72	40.00	-3.28	44.71	-7.99	QP
3	157.313	32.66	43.52	-10.86	36.64	-3.98	QP
4	208.723	39.39	43.52	-4.13	43.75	-4.36	QP
5	533.309	36.88	46.02	-9.14	32.68	4.20	QP
6	722.701	23.33	46.02	-22.69	16.96	6.37	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.

(External Antenna_BT5.0_1M)

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/12
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Index 3,Ch 39,2.48G,BW1M	Humidity (%RH)	56.1

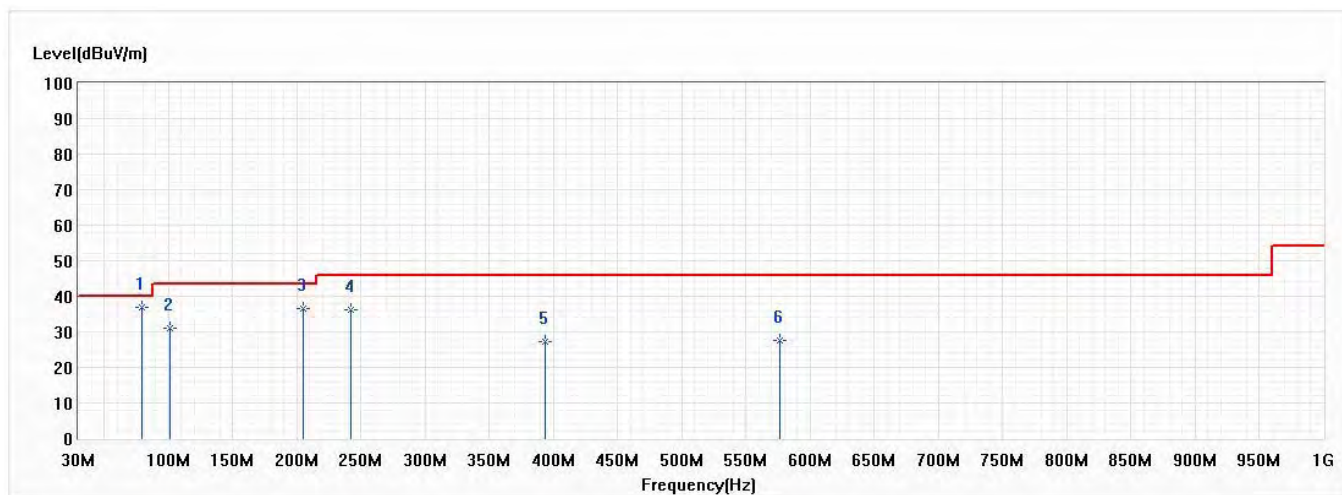


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	59.706	31.85	40.00	-8.15	40.24	-8.39	QP
2	100.810	34.06	43.52	-9.46	38.43	-4.37	QP
* 3	203.024	40.10	43.52	-3.42	44.77	-4.67	QP
4	239.763	38.63	46.02	-7.39	41.24	-2.61	QP
5	492.448	28.12	46.02	-17.90	24.47	3.65	QP
6	697.239	24.29	46.02	-21.73	18.23	6.06	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/12
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Index 3,Ch 39,2.48G,BW1M	Humidity (%RH)	56.1



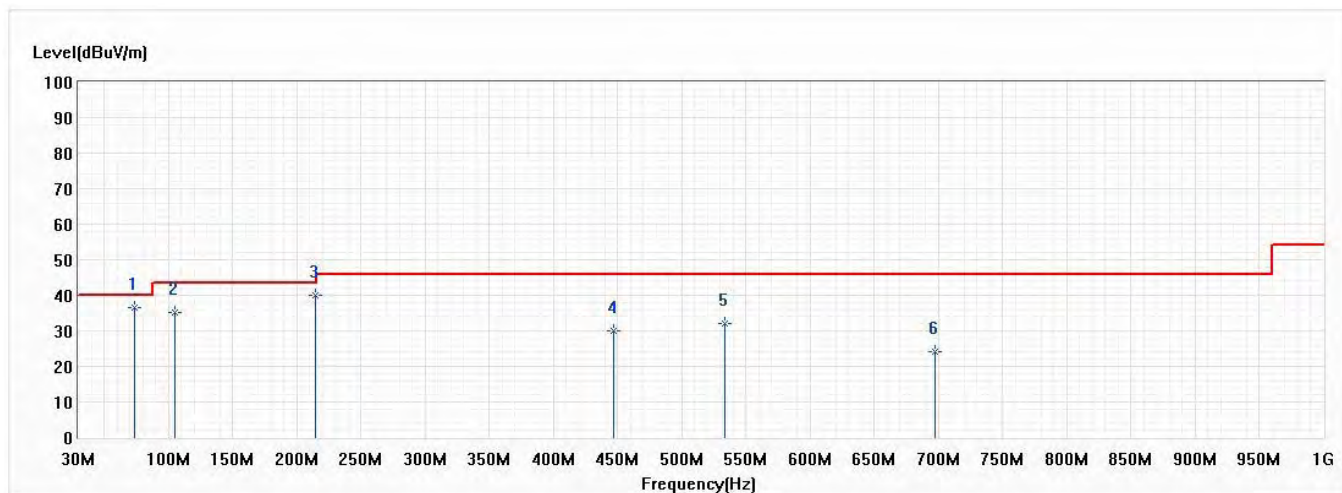
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	79.591	36.82	40.00	-3.18	44.62	-7.80	QP
2	101.295	31.14	43.52	-12.38	35.43	-4.29	QP
3	205.449	36.61	43.52	-6.91	41.15	-4.54	QP
4	241.945	36.26	46.02	-9.76	38.75	-2.49	QP
5	393.993	27.18	46.02	-18.84	25.35	1.83	QP
6	575.989	27.61	46.02	-18.41	22.85	4.76	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.

(External Antenna_BT5.0_2M)

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/12
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	56.1

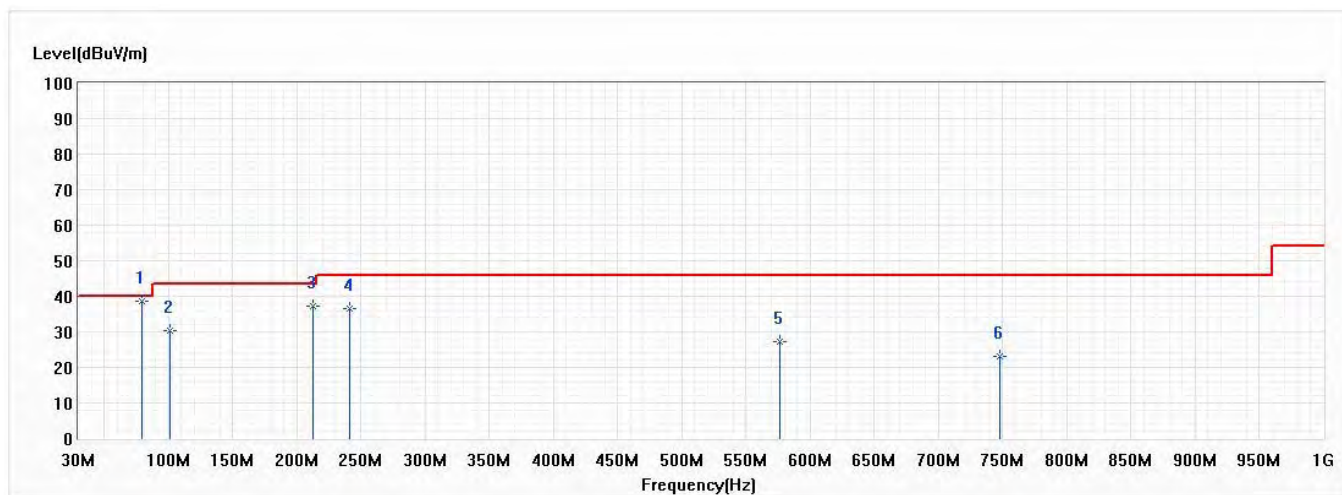


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	74.135	36.51	40.00	-3.49	44.86	-8.35	QP
2	105.660	35.12	43.52	-8.40	38.90	-3.78	QP
* 3	214.421	40.04	43.52	-3.48	44.07	-4.03	QP
4	447.100	30.10	46.02	-15.92	27.21	2.89	QP
5	533.309	32.07	46.02	-13.95	27.87	4.20	QP
6	697.603	24.10	46.02	-21.92	18.02	6.08	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/12
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	56.1



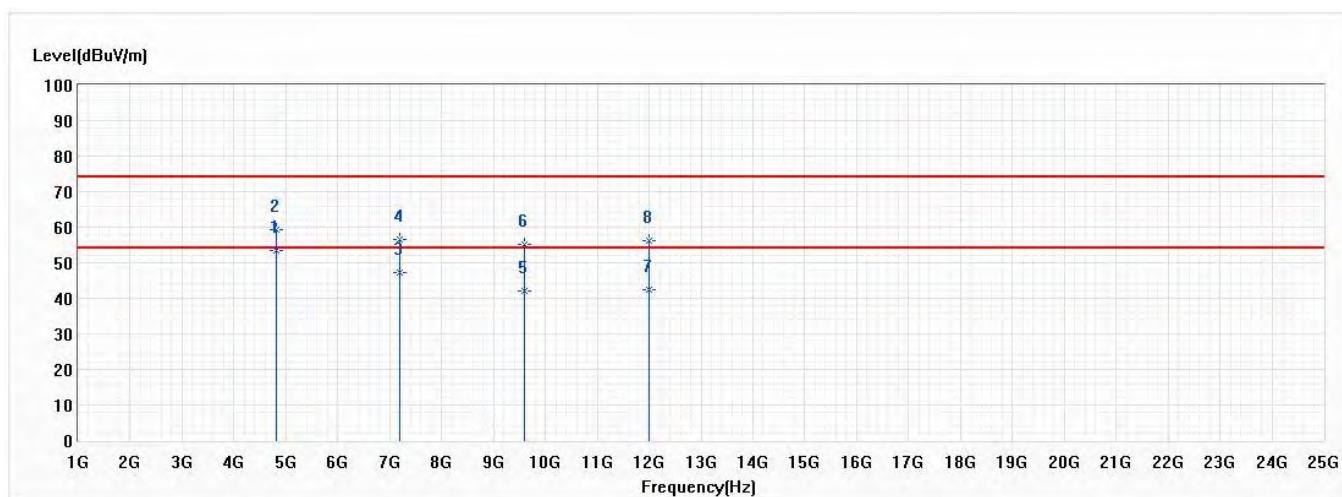
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	79.470	38.70	40.00	-1.30	46.50	-7.80	QP
2	101.053	30.35	43.52	-13.17	34.67	-4.32	QP
3	212.966	37.27	43.52	-6.25	41.39	-4.12	QP
4	240.975	36.40	46.02	-9.62	38.95	-2.55	QP
5	575.989	27.32	46.02	-18.70	22.56	4.76	QP
6	747.679	23.07	46.02	-22.95	16.38	6.69	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:**(Internal Antenna_BT5.0_1M)**

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0, Ch 0,2.402G,BW1M	Humidity (%RH)	56.1

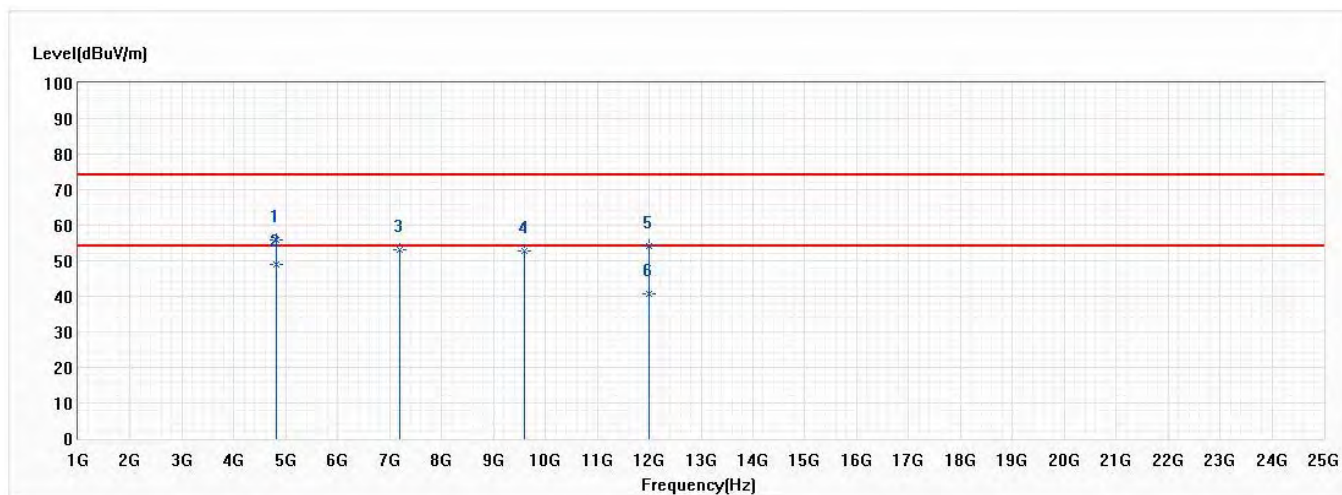


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4804.000	53.43	54.00	-0.57	65.46	-12.03	AV
2	4804.000	59.45	74.00	-14.55	71.48	-12.03	PK
3	7206.000	47.19	54.00	-6.81	51.87	-4.68	AV
4	7206.000	56.58	74.00	-17.42	61.26	-4.68	PK
5	9608.000	42.02	54.00	-11.98	43.35	-1.33	AV
6	9608.000	55.20	74.00	-18.80	56.53	-1.33	PK
7	12010.000	42.36	54.00	-11.64	39.55	2.81	AV
8	12010.000	56.30	74.00	-17.70	53.49	2.81	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst 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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0, Ch 0,2.402G,BW1M	Humidity (%RH)	56.1

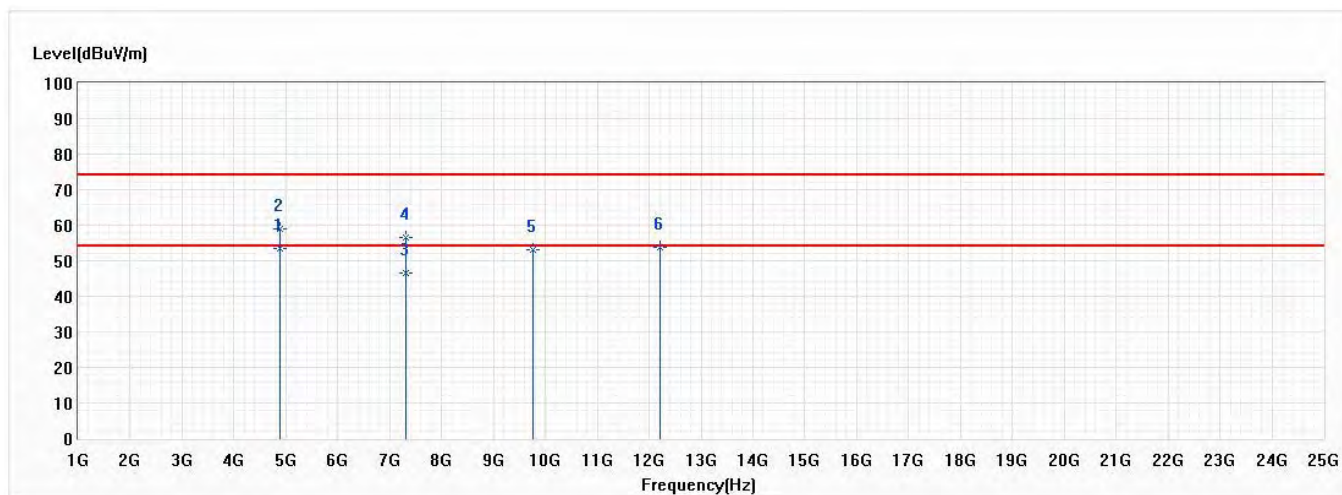


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	55.76	74.00	-18.24	67.79	-12.03	PK
* 2	4804.000	48.94	54.00	-5.06	60.97	-12.03	AV
3	7206.000	52.99	74.00	-21.01	57.67	-4.68	PK
4	9608.000	52.86	74.00	-21.14	54.19	-1.33	PK
5	12010.000	54.23	74.00	-19.77	51.42	2.81	PK
6	12010.000	40.61	54.00	-13.39	37.80	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Index 0,Ch 19,2.44G,BW1M	Humidity (%RH)	56.1

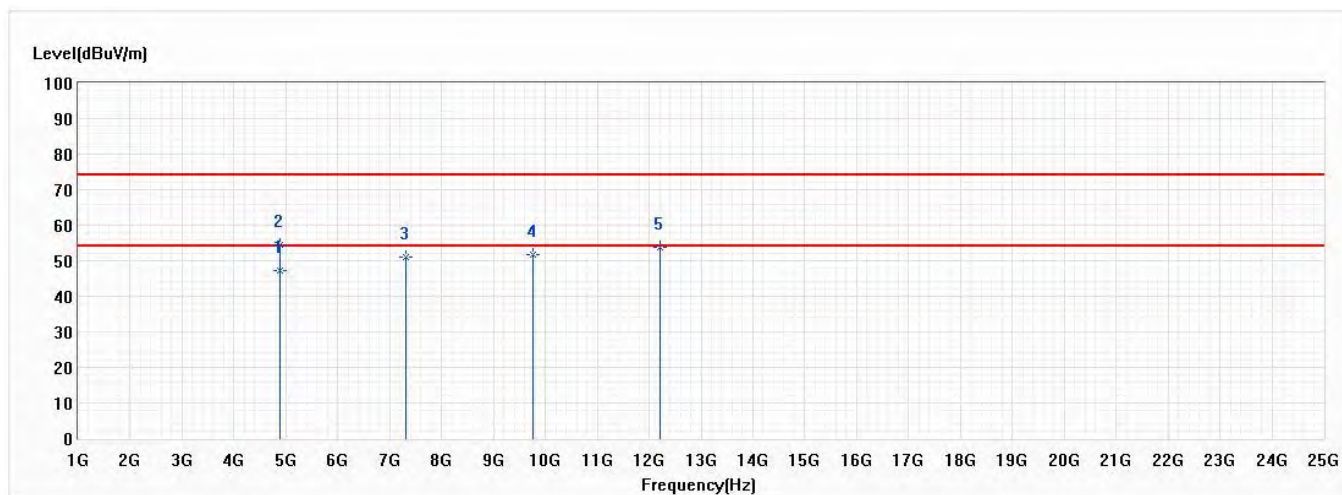


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4880.000	53.45	54.00	-0.55	65.28	-11.83	AV
2	4880.000	58.94	74.00	-15.06	70.77	-11.83	PK
3	7320.000	46.67	54.00	-7.33	51.02	-4.35	AV
4	7320.000	56.66	74.00	-17.34	61.01	-4.35	PK
5	9760.000	53.16	74.00	-20.84	54.43	-1.27	PK
6	12200.000	53.93	74.00	-20.07	51.35	2.58	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.

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Index 0,Ch 19,2.44G,BW1M	Humidity (%RH)	56.1

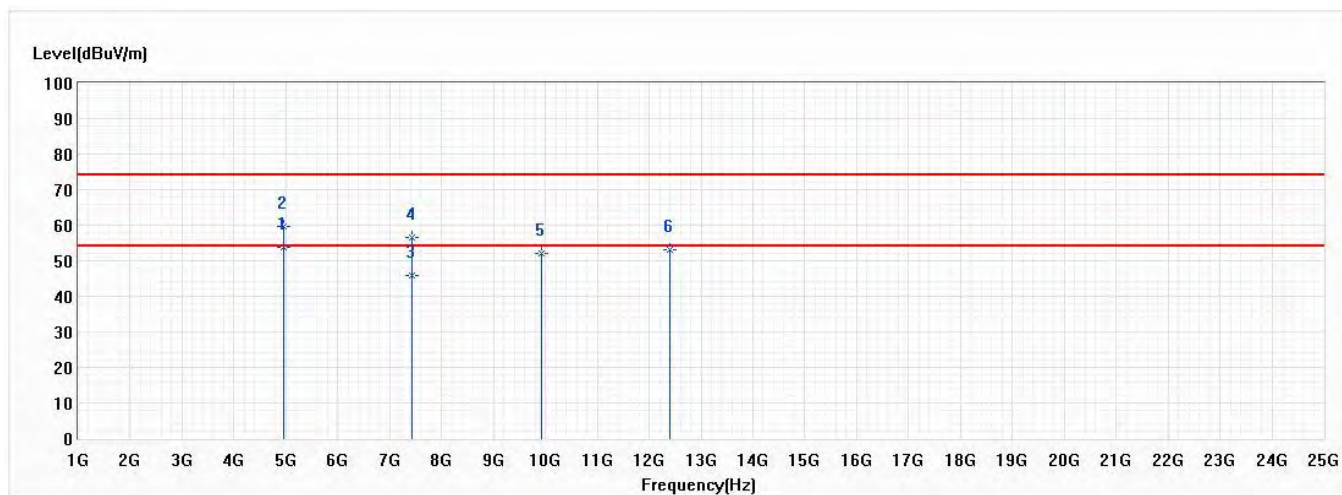


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4880.000	47.26	54.00	-6.74	59.09	-11.83	AV
2	4880.000	54.38	74.00	-19.62	66.21	-11.83	PK
3	7320.000	50.92	74.00	-23.08	55.27	-4.35	PK
4	9760.000	51.87	74.00	-22.13	53.14	-1.27	PK
5	12200.000	53.66	74.00	-20.34	51.08	2.58	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.

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Index 0,Ch 39,2.48G,BW1M	Humidity (%RH)	56.1

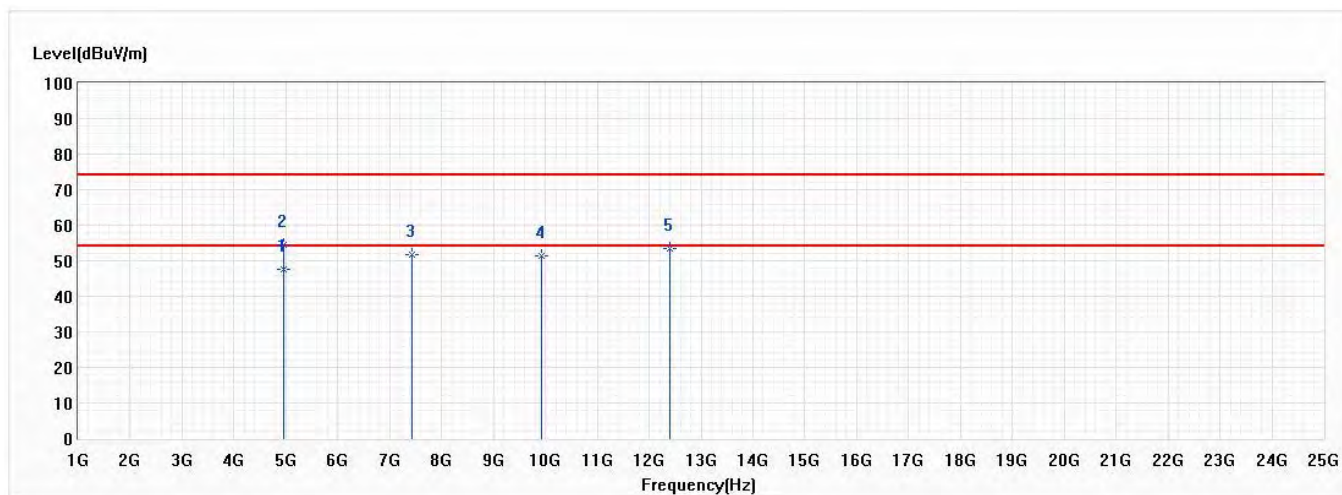


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4960.000	53.66	54.00	-0.34	65.26	-11.60	AV
2	4960.000	59.56	74.00	-14.44	71.16	-11.60	PK
3	7440.000	45.98	54.00	-8.02	49.99	-4.01	AV
4	7440.000	56.54	74.00	-17.46	60.55	-4.01	PK
5	9920.000	51.91	74.00	-22.09	53.10	-1.19	PK
6	12400.000	53.08	74.00	-20.92	50.74	2.34	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.

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Index 0,Ch 39,2.48G,BW1M	Humidity (%RH)	56.1



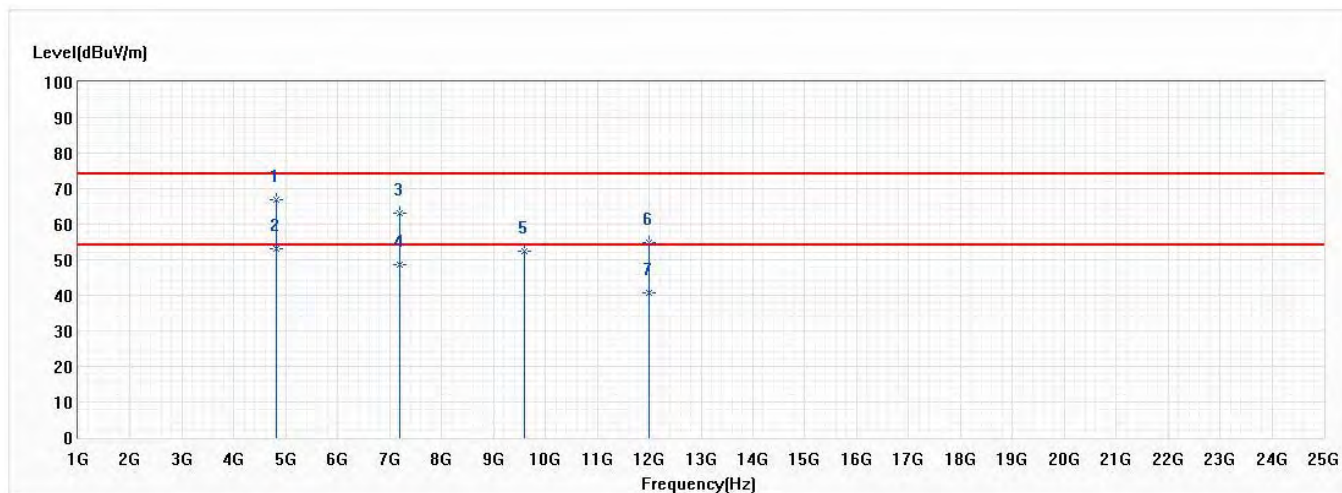
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4960.000	47.56	54.00	-6.44	59.16	-11.60	AV
2	4960.000	54.65	74.00	-19.35	66.25	-11.60	PK
3	7440.000	51.89	74.00	-22.11	55.90	-4.01	PK
4	9920.000	51.32	74.00	-22.68	52.51	-1.19	PK
5	12400.000	53.37	74.00	-20.63	51.03	2.34	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.

(Internal Antenna_BT5.0_2M)

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	56.1

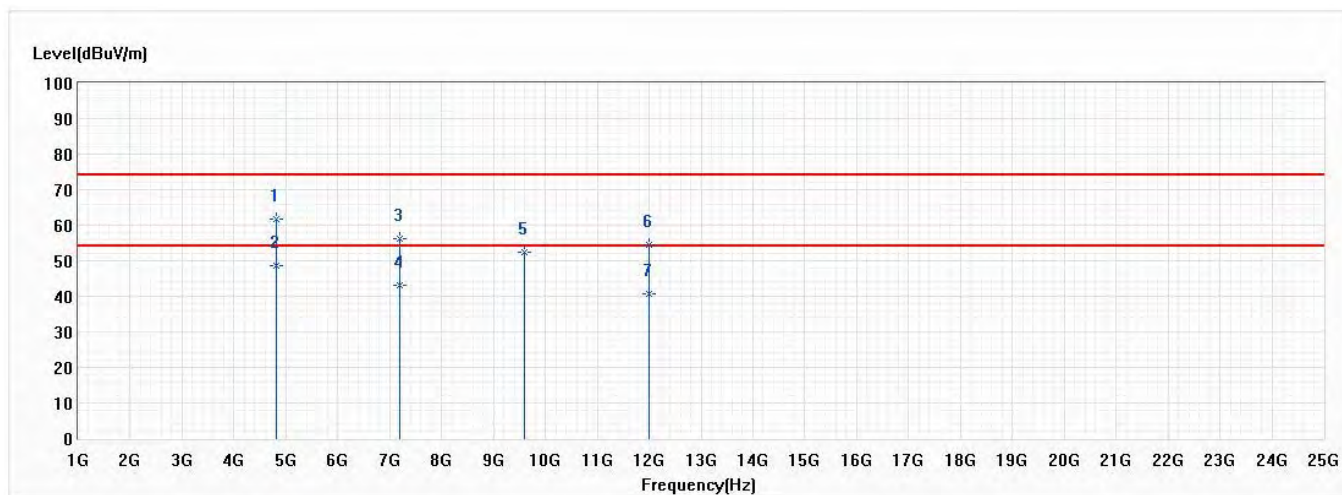


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	66.91	74.00	-7.09	78.94	-12.03	PK
* 2	4804.000	53.06	54.00	-0.94	65.09	-12.03	AV
3	7206.000	63.26	74.00	-10.74	67.94	-4.68	PK
4	7206.000	48.60	54.00	-5.40	53.28	-4.68	AV
5	9608.000	52.56	74.00	-21.44	53.89	-1.33	PK
6	12010.000	54.75	74.00	-19.25	51.94	2.81	PK
7	12010.000	40.61	54.00	-13.39	37.80	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	56.1

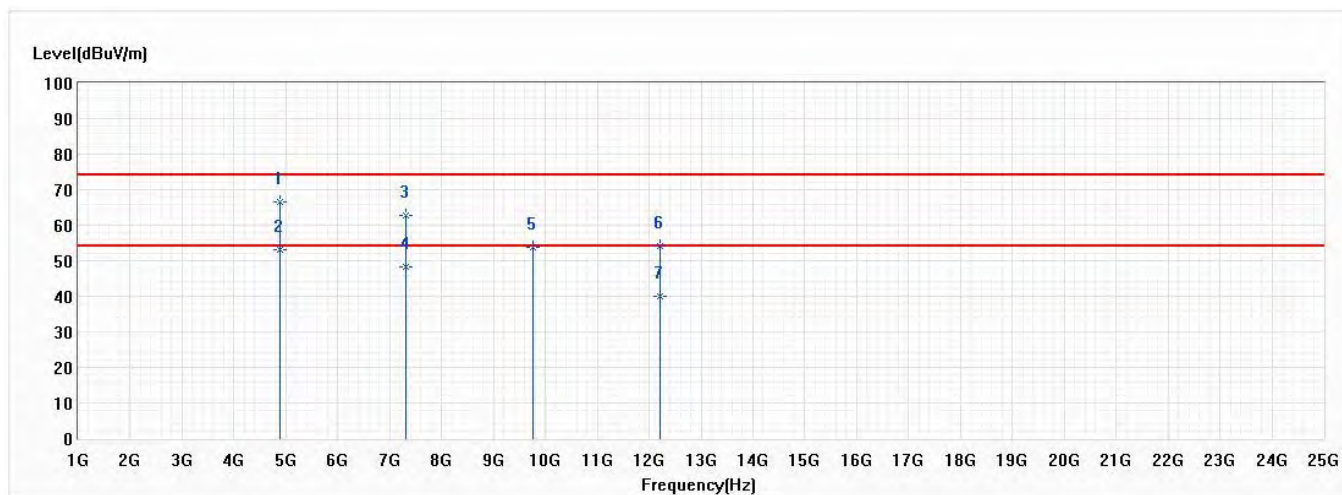


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	61.66	74.00	-12.34	73.69	-12.03	PK
* 2	4804.000	48.58	54.00	-5.42	60.61	-12.03	AV
3	7206.000	56.32	74.00	-17.68	61.00	-4.68	PK
4	7206.000	42.94	54.00	-11.06	47.62	-4.68	AV
5	9608.000	52.56	74.00	-21.44	53.89	-1.33	PK
6	12010.000	54.42	74.00	-19.58	51.61	2.81	PK
7	12010.000	40.66	54.00	-13.34	37.85	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	56.1

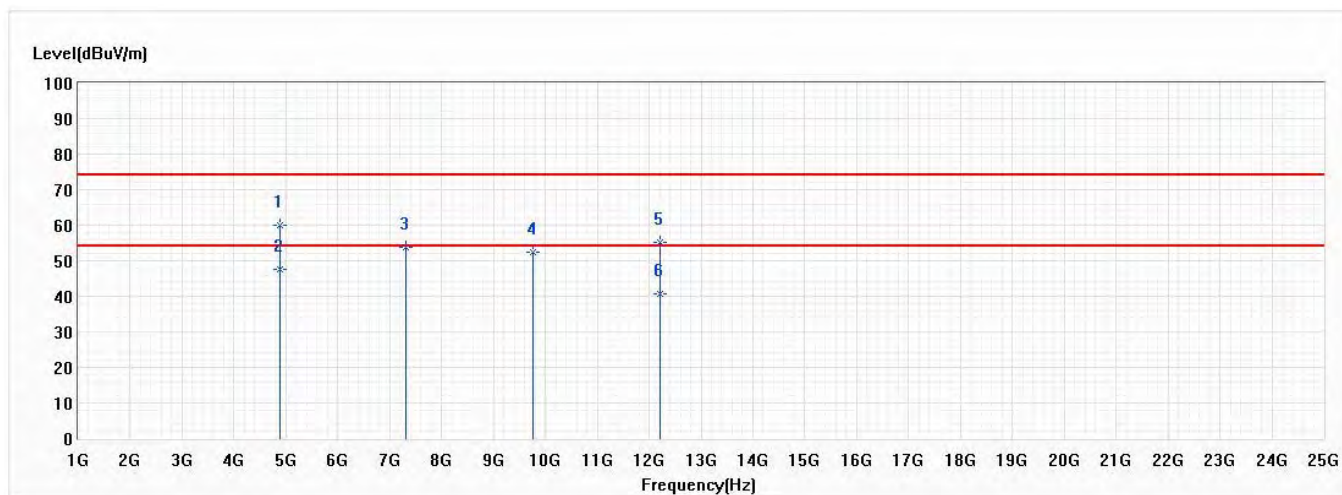


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	66.58	74.00	-7.42	78.41	-11.83	PK
* 2	4880.000	52.94	54.00	-1.06	64.77	-11.83	AV
3	7320.000	62.78	74.00	-11.22	67.13	-4.35	PK
4	7320.000	48.43	54.00	-5.57	52.78	-4.35	AV
5	9760.000	53.71	74.00	-20.29	54.98	-1.27	PK
6	12200.000	54.18	74.00	-19.82	51.60	2.58	PK
7	12200.000	40.08	54.00	-13.92	37.50	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	56.1

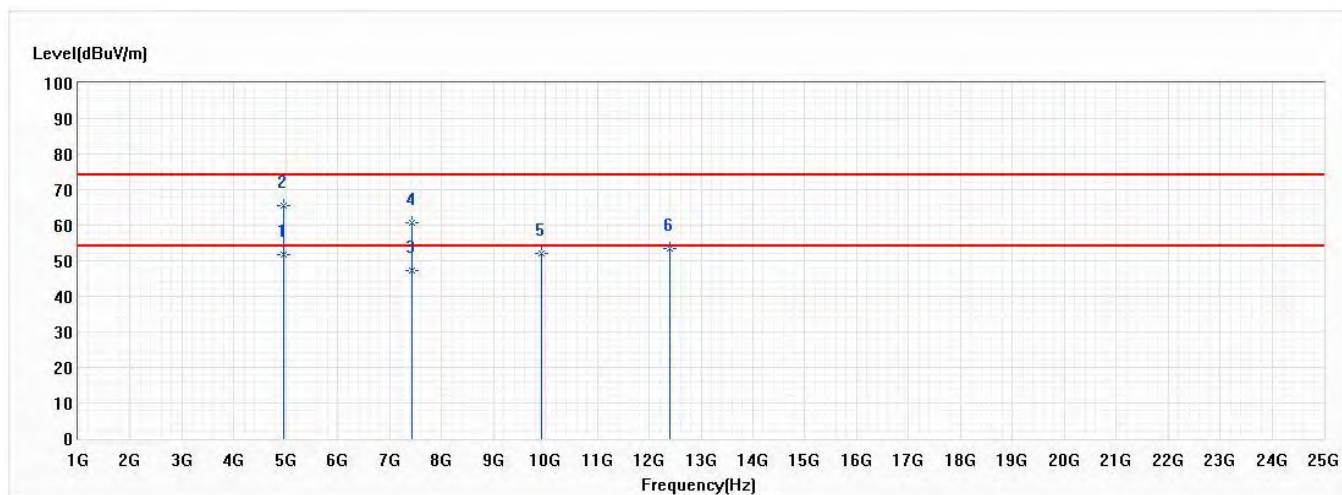


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	60.01	74.00	-13.99	71.84	-11.83	PK
* 2	4880.000	47.44	54.00	-6.56	59.27	-11.83	AV
3	7320.000	53.94	74.00	-20.06	58.29	-4.35	PK
4	9760.000	52.32	74.00	-21.68	53.59	-1.27	PK
5	12200.000	55.10	74.00	-18.90	52.52	2.58	PK
6	12200.000	40.56	54.00	-13.44	37.98	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW2M	Humidity (%RH)	56.1

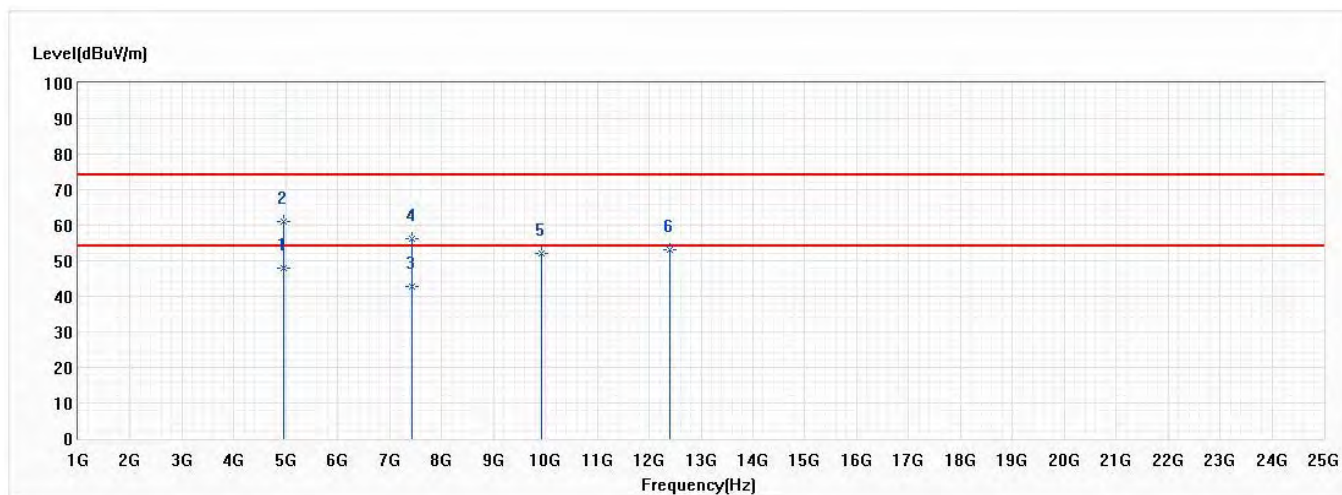


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4960.000	51.87	54.00	-2.13	63.47	-11.60	AV
2	4960.000	65.43	74.00	-8.57	77.03	-11.60	PK
3	7440.000	47.07	54.00	-6.93	51.08	-4.01	AV
4	7440.000	60.62	74.00	-13.38	64.63	-4.01	PK
5	9920.000	51.96	74.00	-22.04	53.15	-1.19	PK
6	12400.000	53.39	74.00	-20.61	51.05	2.34	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.

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW2M	Humidity (%RH)	56.1



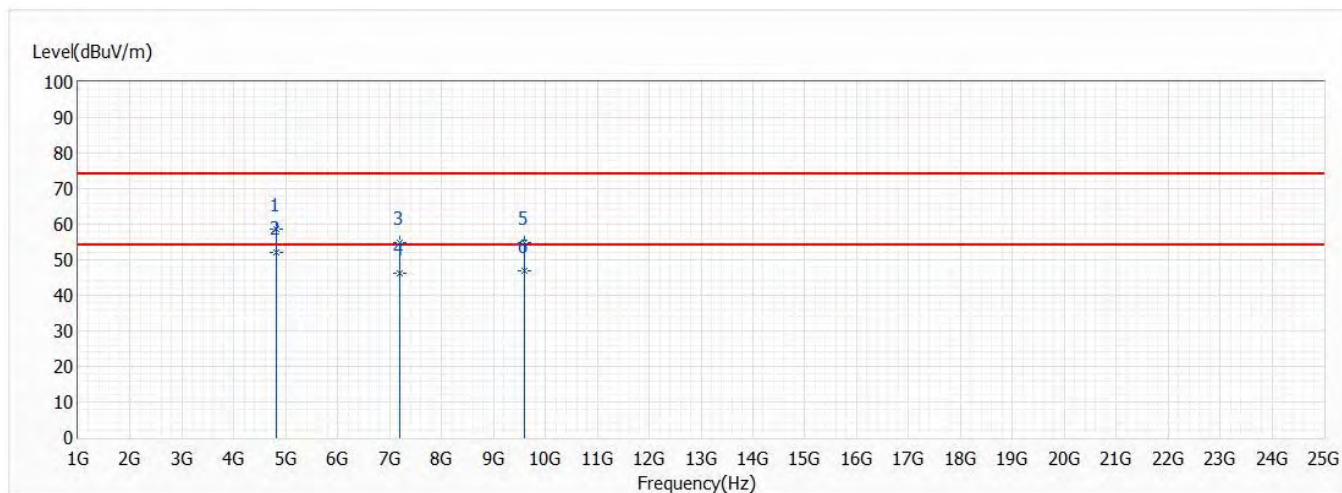
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4960.000	48.06	54.00	-5.94	59.66	-11.60	AV
2	4960.000	61.07	74.00	-12.93	72.67	-11.60	PK
3	7440.000	42.80	54.00	-11.20	46.81	-4.01	AV
4	7440.000	56.17	74.00	-17.83	60.18	-4.01	PK
5	9920.000	52.09	74.00	-21.91	53.28	-1.19	PK
6	12400.000	53.02	74.00	-20.98	50.68	2.34	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.

(External Antenna_BT5.0_1M)

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	56.1

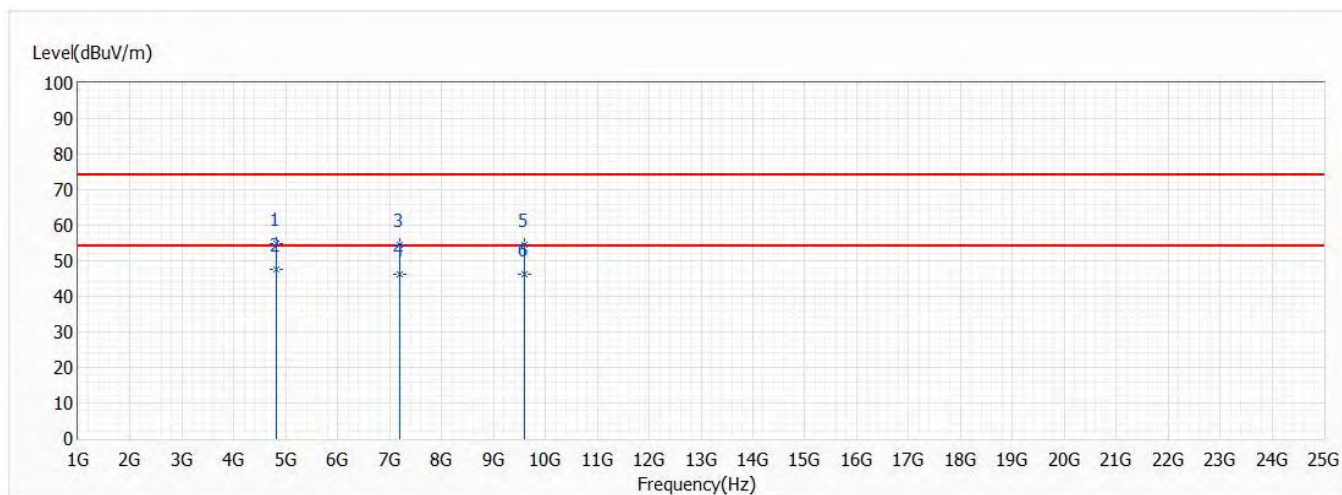


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	58.72	74.00	-15.28	70.75	-12.03	PK
* 2	4804.000	52.12	54.00	-1.88	64.15	-12.03	AV
3	7206.000	54.71	74.00	-19.29	59.39	-4.68	PK
4	7206.000	46.23	54.00	-7.77	50.91	-4.68	AV
5	9608.000	54.85	74.00	-19.15	56.18	-1.33	PK
6	9608.000	46.91	54.00	-7.09	48.24	-1.33	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	56.1

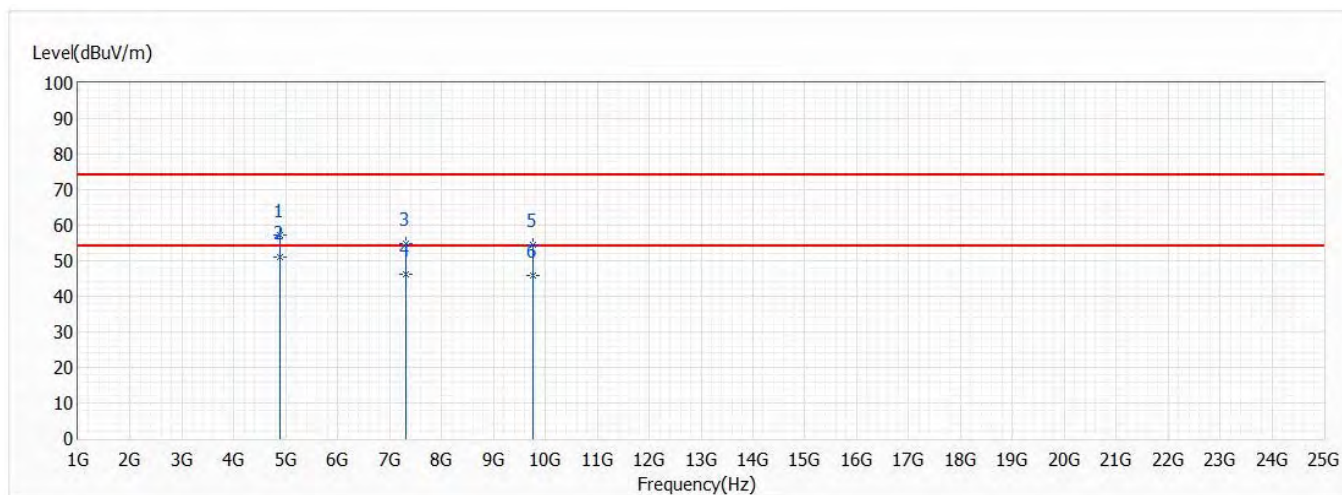


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	54.97	74.00	-19.03	67.00	-12.03	PK
* 2	4804.000	47.56	54.00	-6.44	59.59	-12.03	AV
3	7206.000	54.53	74.00	-19.47	59.21	-4.68	PK
4	7206.000	46.04	54.00	-7.96	50.72	-4.68	AV
5	9608.000	54.61	74.00	-19.39	55.94	-1.33	PK
6	9608.000	46.12	54.00	-7.88	47.45	-1.33	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW1M	Humidity (%RH)	56.1

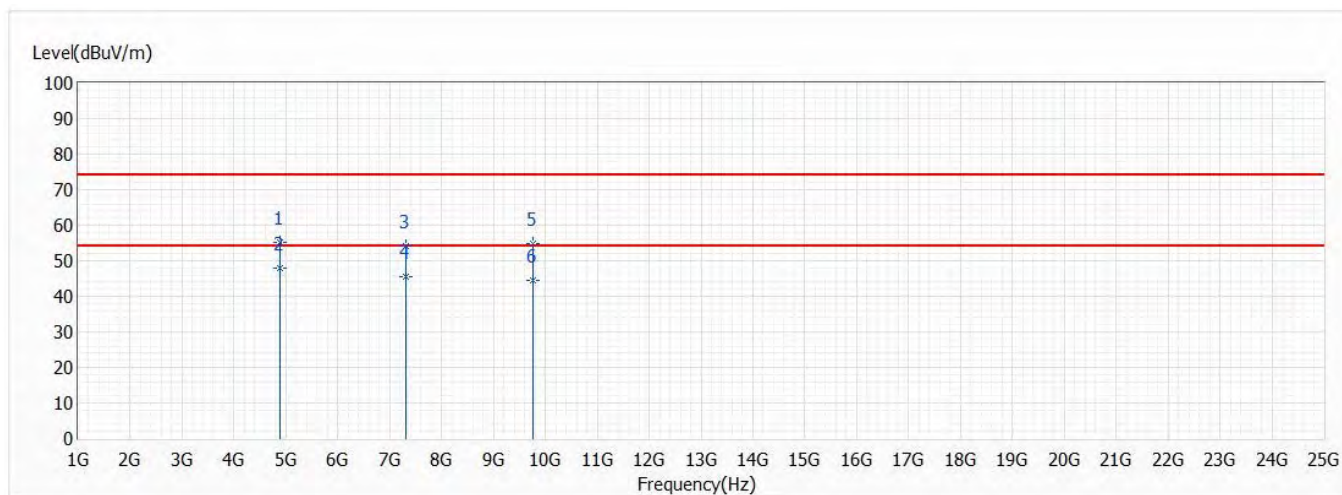


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	57.33	74.00	-16.67	69.16	-11.83	PK
* 2	4880.000	51.03	54.00	-2.97	62.86	-11.83	AV
3	7320.000	54.99	74.00	-19.01	59.34	-4.35	PK
4	7320.000	46.15	54.00	-7.85	50.50	-4.35	AV
5	9760.000	54.43	74.00	-19.57	55.70	-1.27	PK
6	9760.000	45.87	54.00	-8.13	47.14	-1.27	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW1M	Humidity (%RH)	56.1

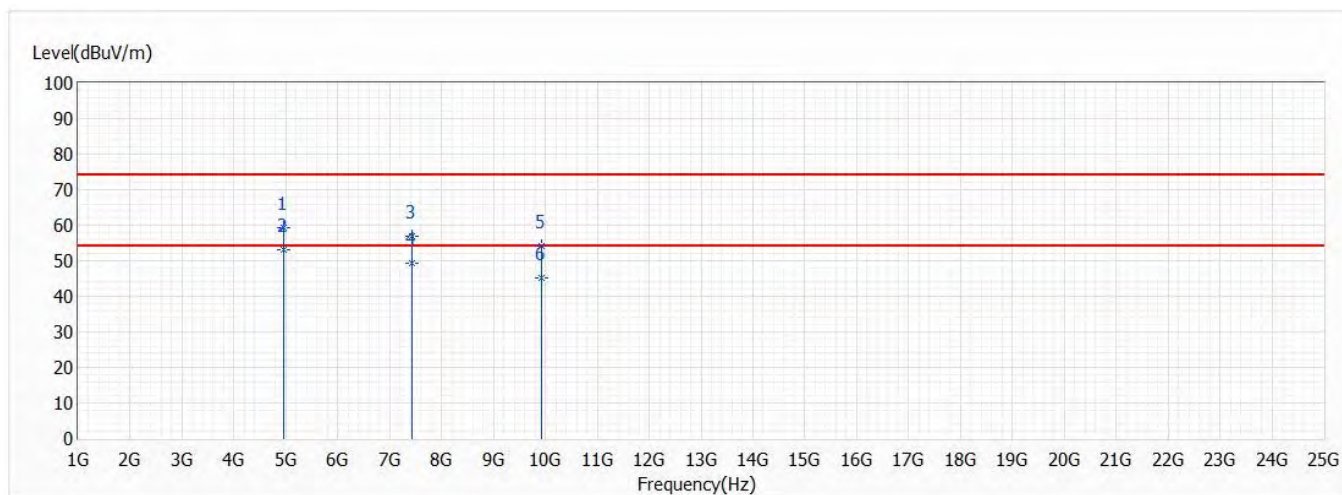


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	55.09	74.00	-18.91	66.92	-11.83	PK
* 2	4880.000	48.10	54.00	-5.90	59.93	-11.83	AV
3	7320.000	54.31	74.00	-19.69	58.66	-4.35	PK
4	7320.000	45.55	54.00	-8.45	49.90	-4.35	AV
5	9760.000	54.74	74.00	-19.26	56.01	-1.27	PK
6	9760.000	44.62	54.00	-9.38	45.89	-1.27	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW1M	Humidity (%RH)	56.1

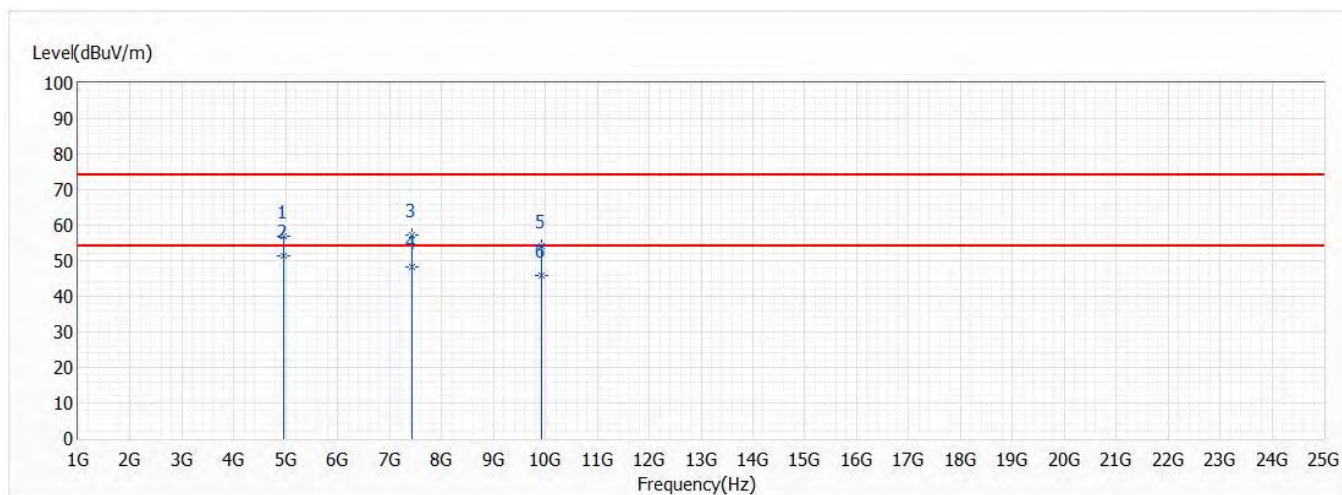


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4960.000	59.24	74.00	-14.76	70.84	-11.60	PK
* 2	4960.000	53.18	54.00	-0.82	64.78	-11.60	AV
3	7440.000	56.73	74.00	-17.27	60.74	-4.01	PK
4	7440.000	49.25	54.00	-4.75	53.26	-4.01	AV
5	9920.000	54.30	74.00	-19.70	55.49	-1.19	PK
6	9920.000	45.12	54.00	-8.88	46.31	-1.19	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW1M	Humidity (%RH)	56.1



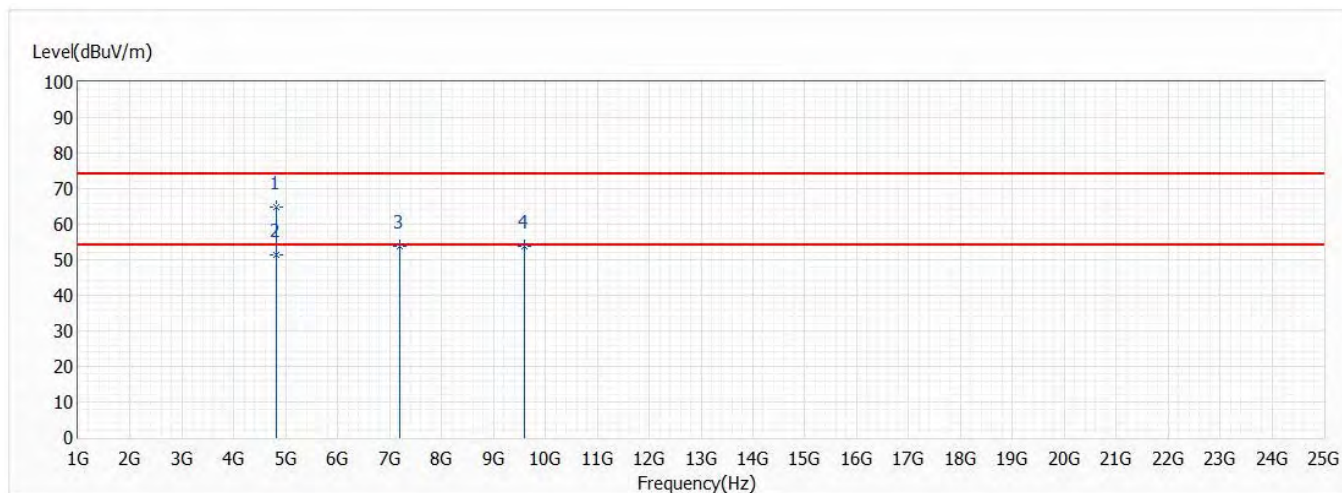
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4960.000	56.89	74.00	-17.11	68.49	-11.60	PK
* 2	4960.000	51.22	54.00	-2.78	62.82	-11.60	AV
3	7440.000	57.21	74.00	-16.79	61.22	-4.01	PK
4	7440.000	48.33	54.00	-5.67	52.34	-4.01	AV
5	9920.000	54.27	74.00	-19.73	55.46	-1.19	PK
6	9920.000	45.73	54.00	-8.27	46.92	-1.19	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.

(External Antenna_BT5.0_2M)

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	56.1

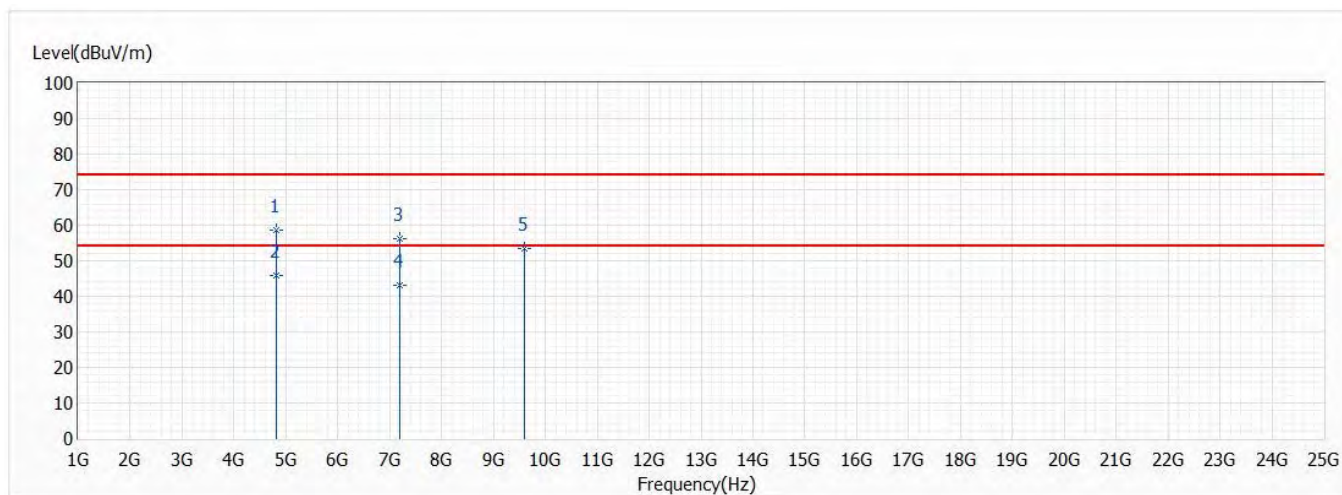


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	64.69	74.00	-9.31	76.72	-12.03	PK
* 2	4804.000	51.35	54.00	-2.65	63.38	-12.03	AV
3	7206.000	53.88	74.00	-20.12	58.56	-4.68	PK
4	9608.000	53.92	74.00	-20.08	55.25	-1.33	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.

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/6
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	56.1

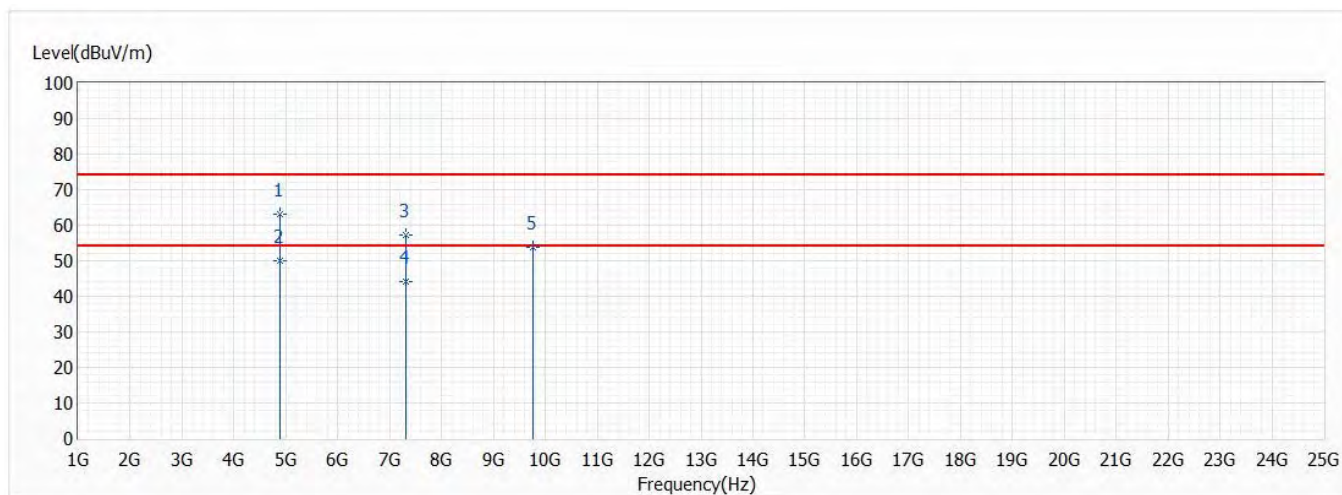


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	58.60	74.00	-15.40	70.63	-12.03	PK
* 2	4804.000	45.88	54.00	-8.12	57.91	-12.03	AV
3	7206.000	56.31	74.00	-17.69	60.99	-4.68	PK
4	7206.000	43.16	54.00	-10.84	47.84	-4.68	AV
5	9608.000	53.51	74.00	-20.49	54.84	-1.33	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.

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/6
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	56.1

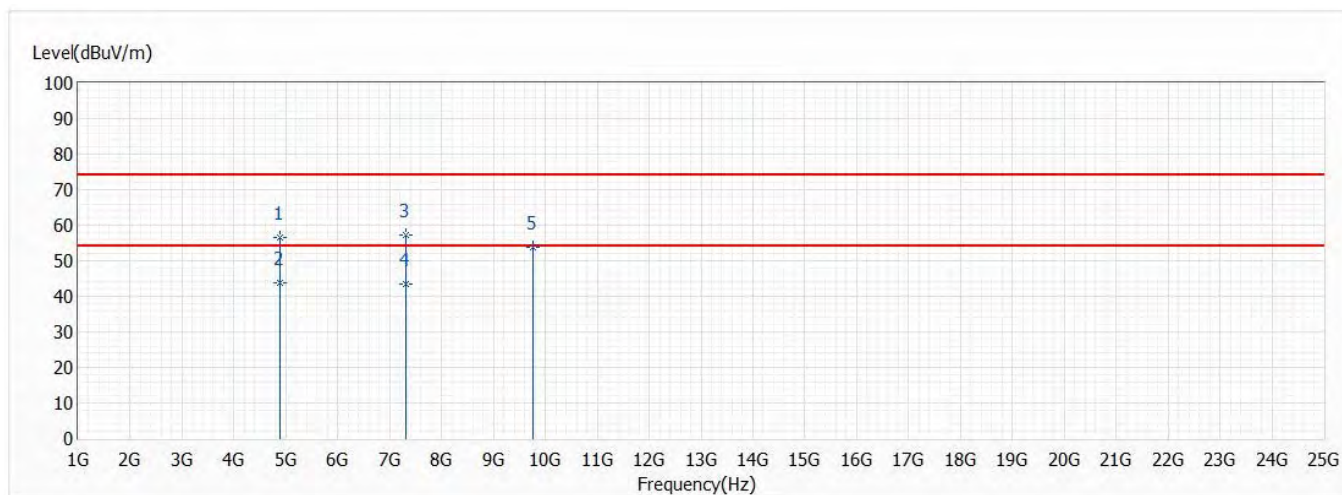


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	63.14	74.00	-10.86	74.97	-11.83	PK
* 2	4880.000	49.93	54.00	-4.07	61.76	-11.83	AV
3	7320.000	57.27	74.00	-16.73	61.62	-4.35	PK
4	7320.000	44.16	54.00	-9.84	48.51	-4.35	AV
5	9760.000	53.84	74.00	-20.16	55.11	-1.27	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.

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/6
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	56.1

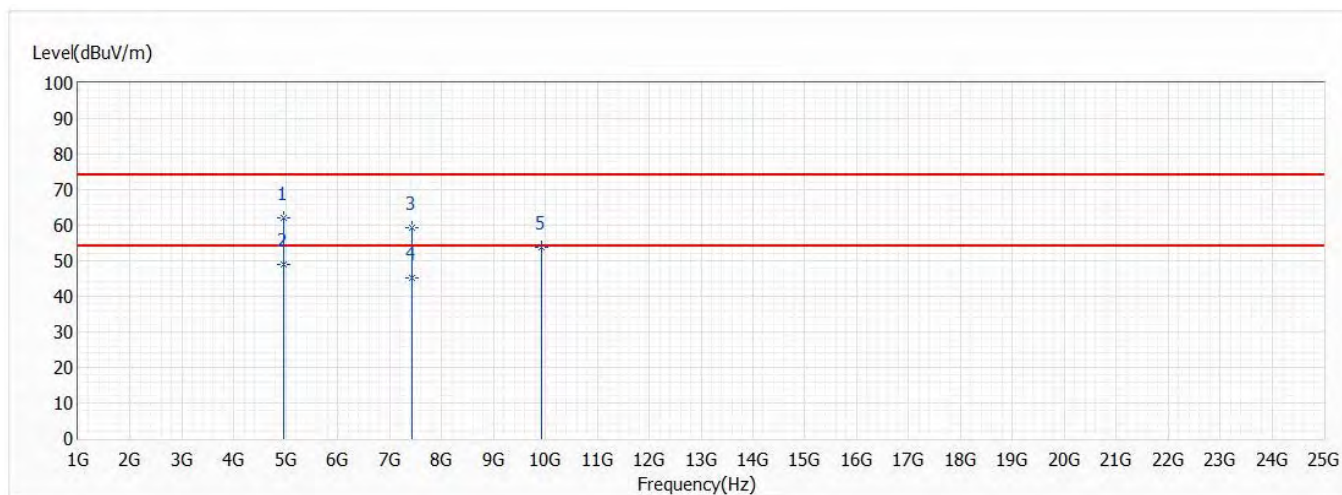


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	56.54	74.00	-17.46	68.37	-11.83	PK
* 2	4880.000	43.71	54.00	-10.29	55.54	-11.83	AV
3	7320.000	57.15	74.00	-16.85	61.50	-4.35	PK
4	7320.000	43.49	54.00	-10.51	47.84	-4.35	AV
5	9760.000	53.90	74.00	-20.10	55.17	-1.27	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.

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/6
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW2M	Humidity (%RH)	56.1

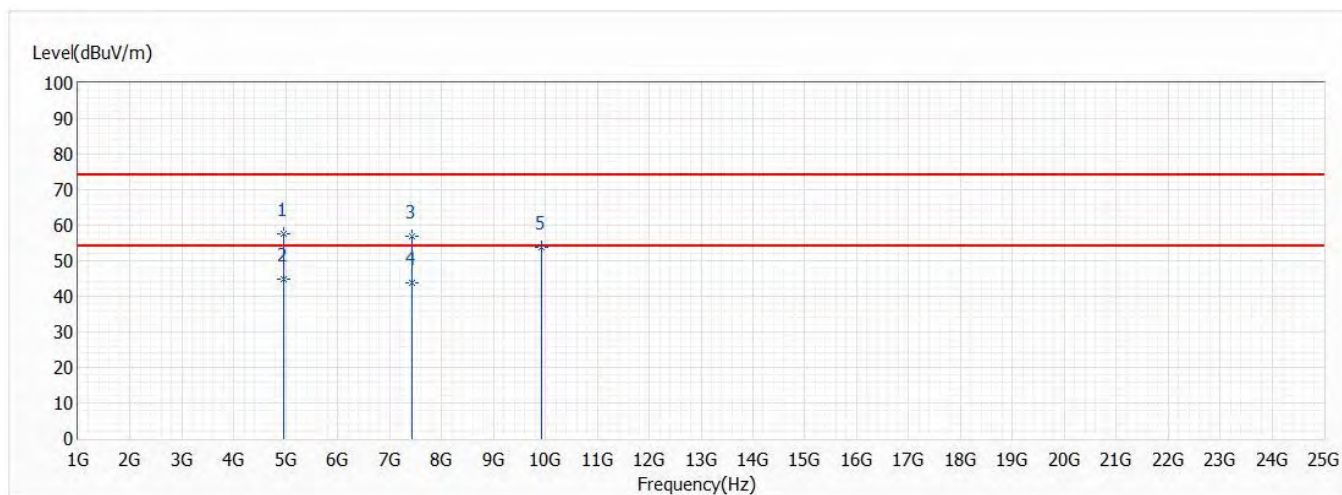


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4960.000	62.08	74.00	-11.92	73.68	-11.60	PK
* 2	4960.000	48.88	54.00	-5.12	60.48	-11.60	AV
3	7440.000	59.30	74.00	-14.70	63.31	-4.01	PK
4	7440.000	45.13	54.00	-8.87	49.14	-4.01	AV
5	9920.000	53.89	74.00	-20.11	55.08	-1.19	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.

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/6
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW2M	Humidity (%RH)	56.1



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4960.000	57.56	74.00	-16.44	69.16	-11.60	PK
* 2	4960.000	44.86	54.00	-9.14	56.46	-11.60	AV
3	7440.000	56.77	74.00	-17.23	60.78	-4.01	PK
4	7440.000	43.85	54.00	-10.15	47.86	-4.01	AV
5	9920.000	53.85	74.00	-20.15	55.04	-1.19	PK

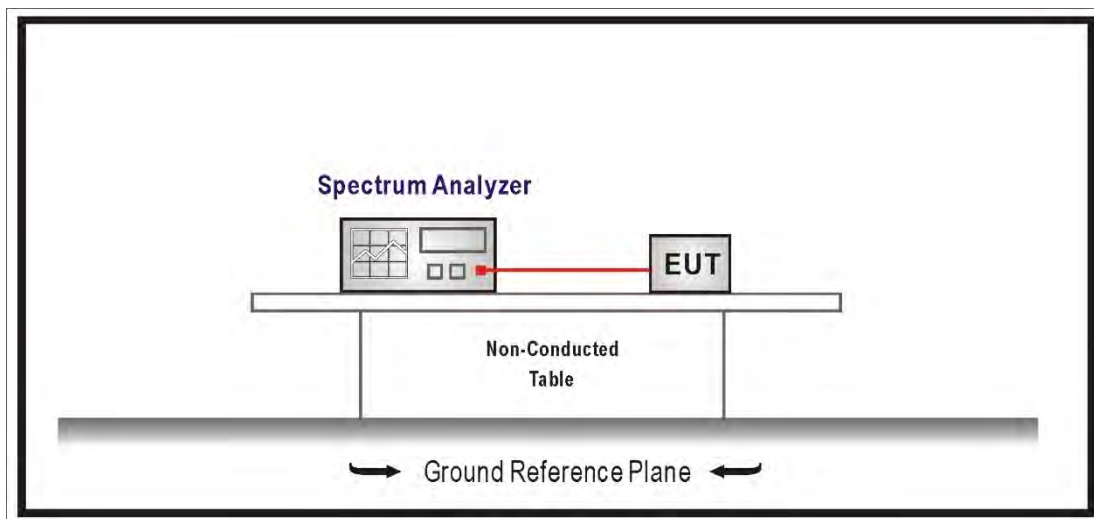
Note:

- 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 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.

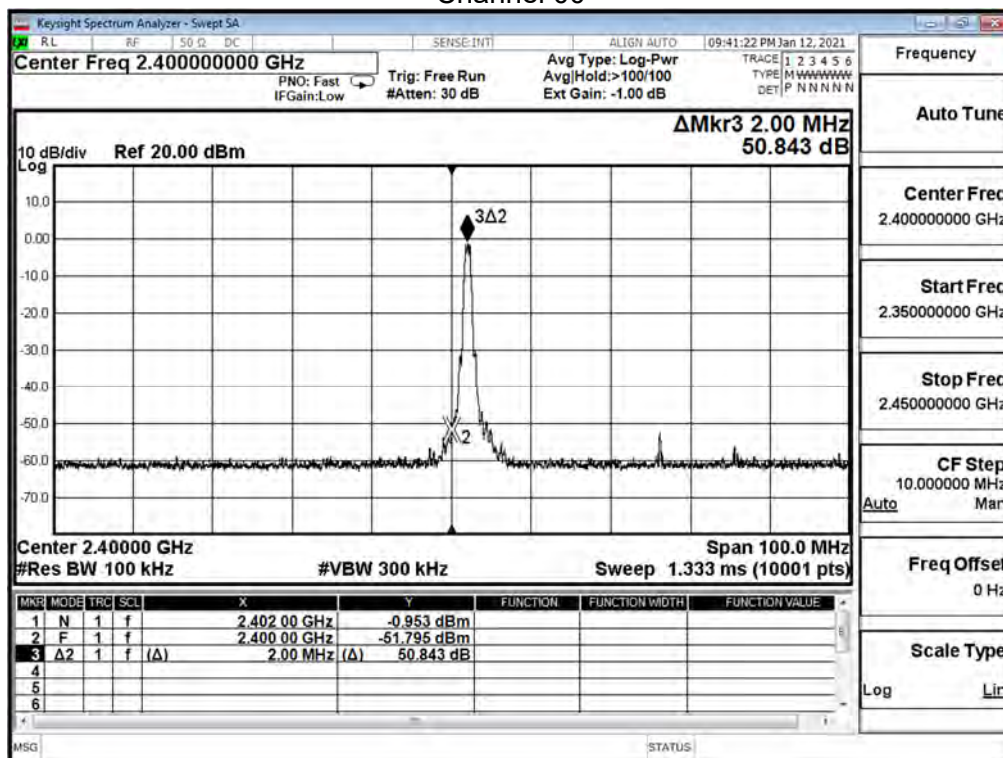
5.5. Test Result

Product	Connectivity Module		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2021/01/12	Test Site	SR12-H
Temperature(°C)	18.0	Humidity (%RH)	58.0

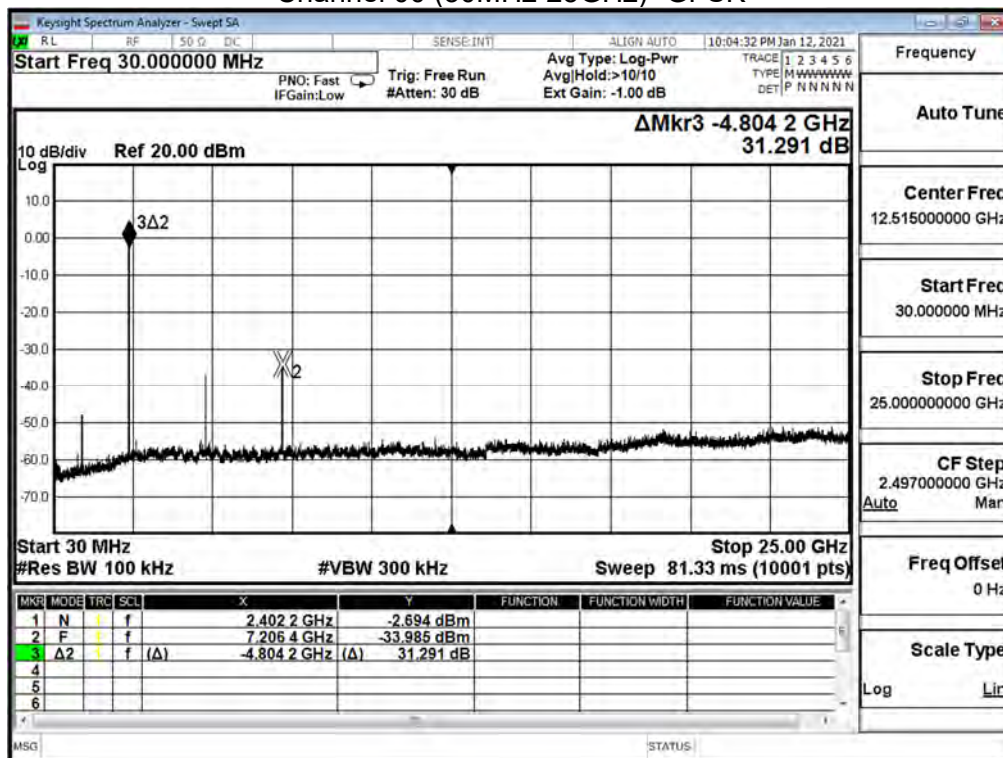
GFSK_(Internal Antenna)_BT5.0_1M

Channel No.	Frequency (MHz)	Measure Value (dBc)	Limit (dBc)
00	2402	31.291	≥ 20
19	2440	30.761	≥ 20
39	2480	31.309	≥ 20

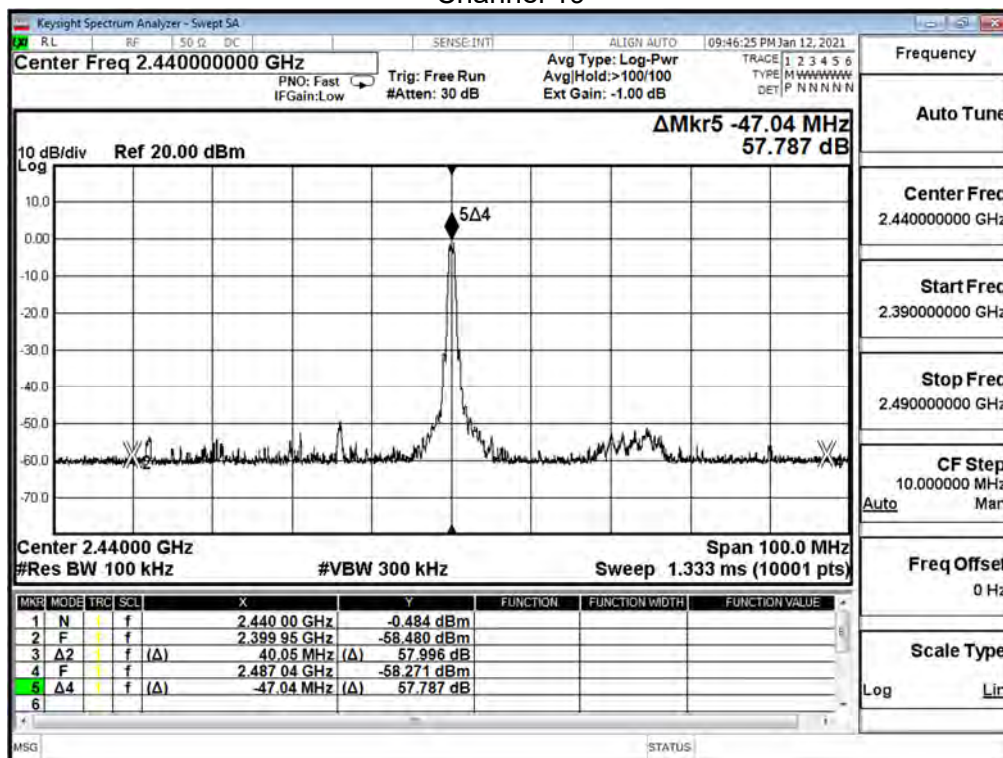
Channel 00



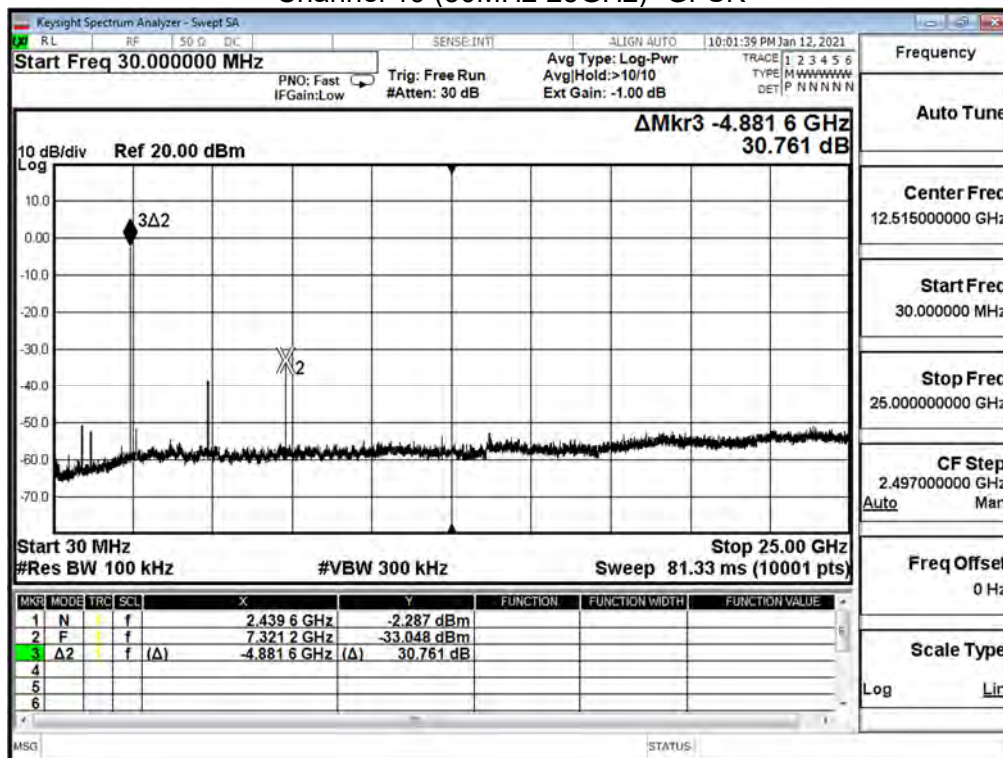
Channel 00 (30MHz-25GHz)- GFSK



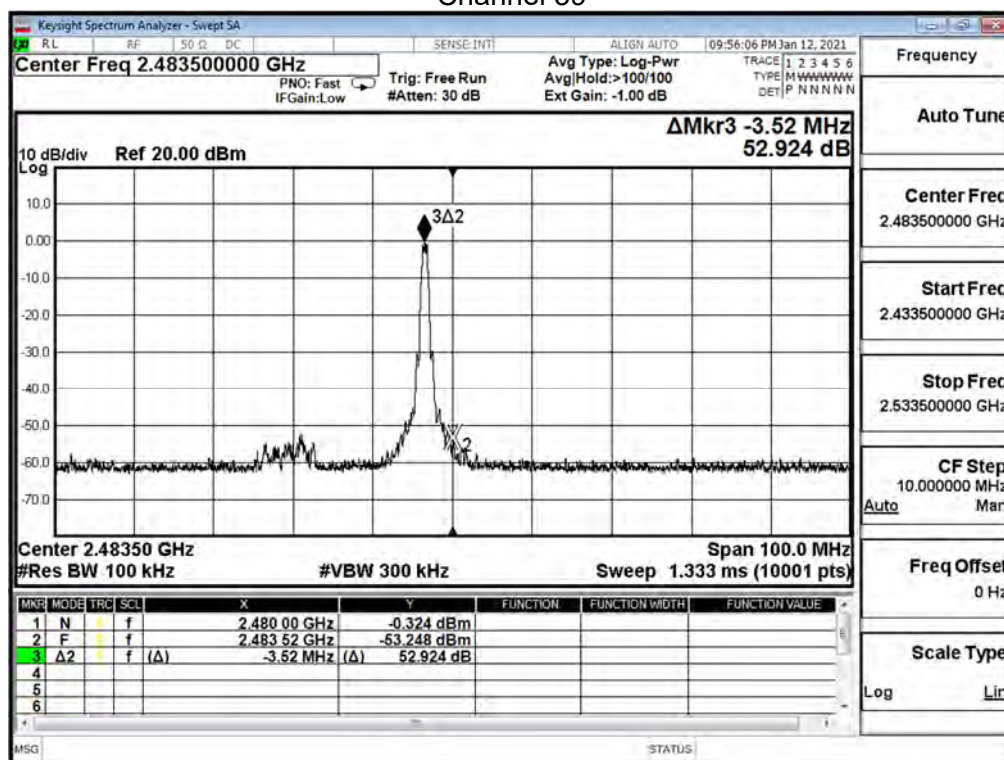
Channel 19



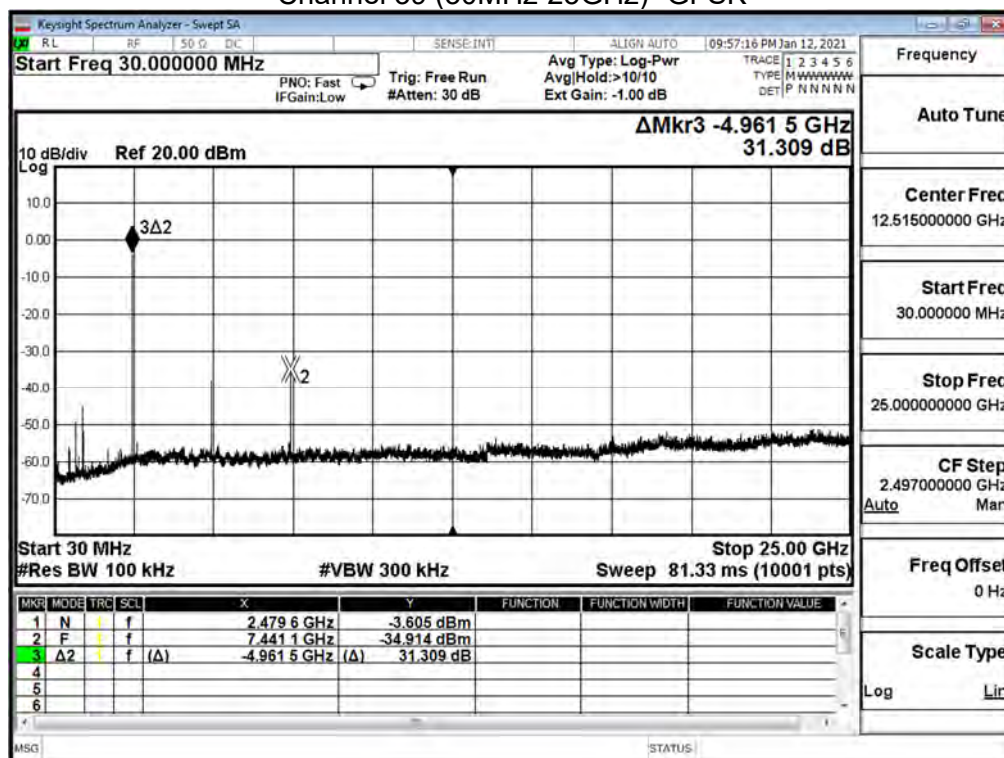
Channel 19 (30MHz-25GHz)- GFSK



Channel 39



Channel 39 (30MHz-25GHz)- GFSK

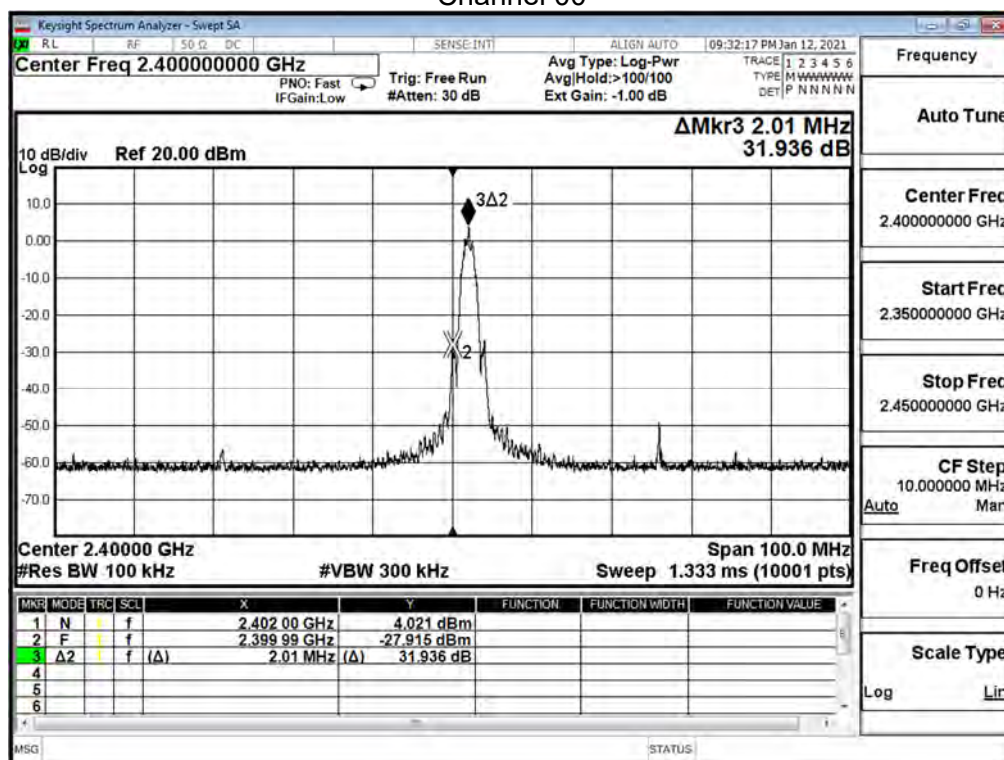


Product	Connectivity Module		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2021/01/12	Test Site	SR12-H
Temperature(°C)	18.0	Humidity (%RH)	58.0

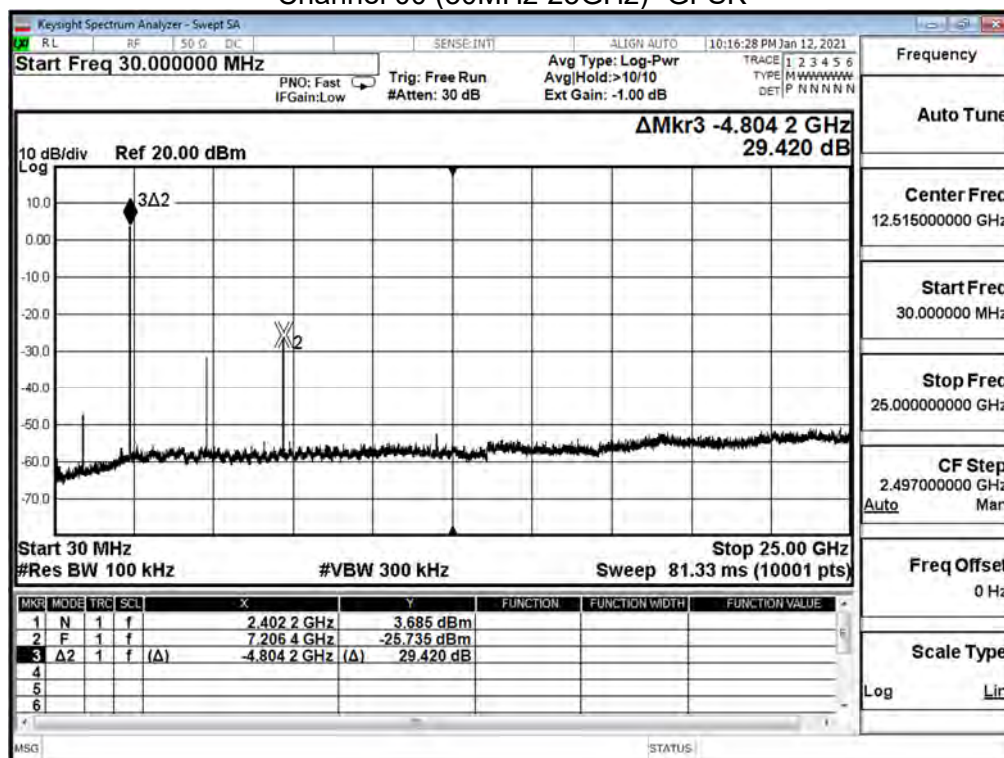
GFSK_(Internal Antenna)_BT5.0_2M

Channel No.	Frequency (MHz)	Measure Value (dBc)	Limit (dBc)
00	2402	29.420	≥ 20
19	2440	28.809	≥ 20
39	2480	23.645	≥ 20

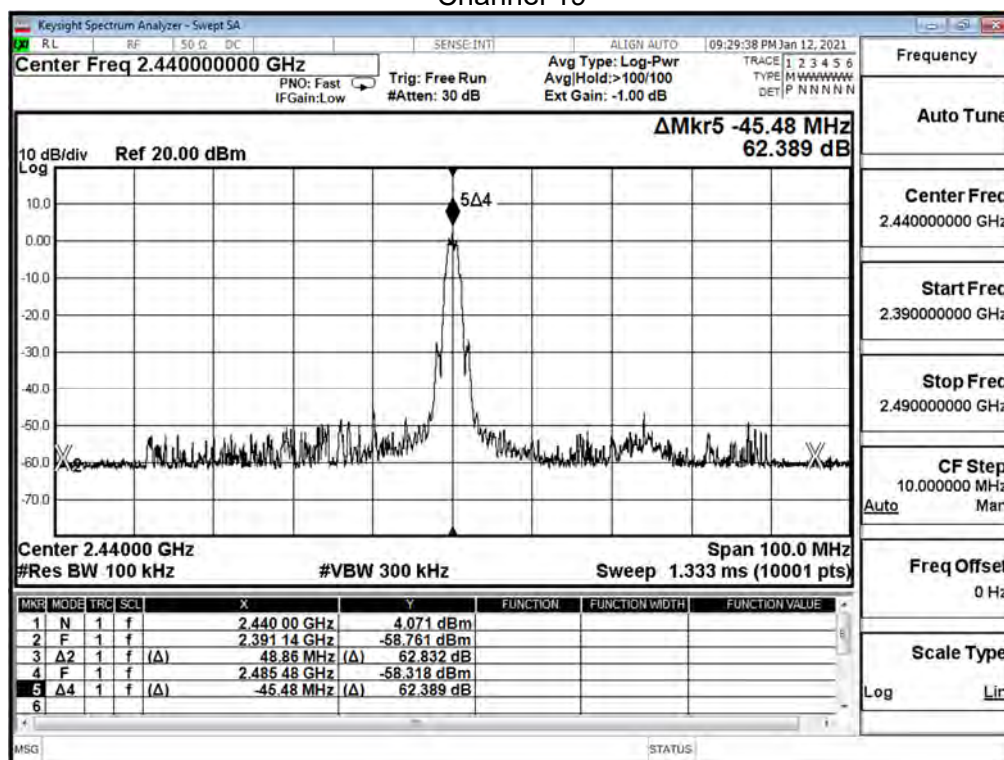
Channel 00



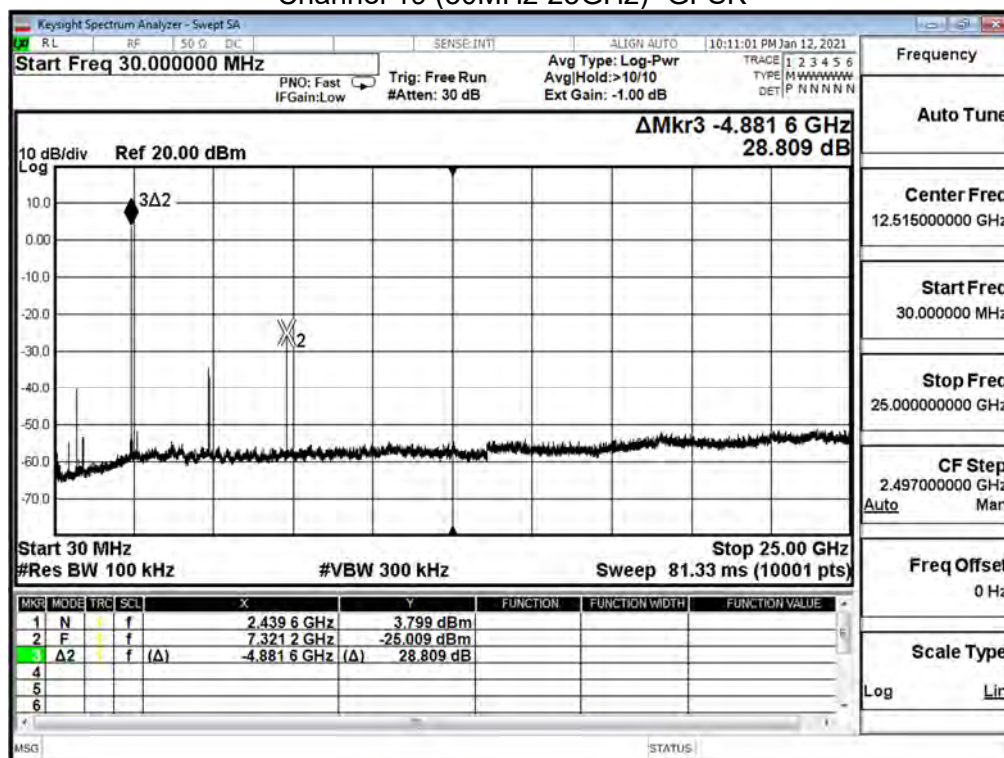
Channel 00 (30MHz-25GHz)- GFSK



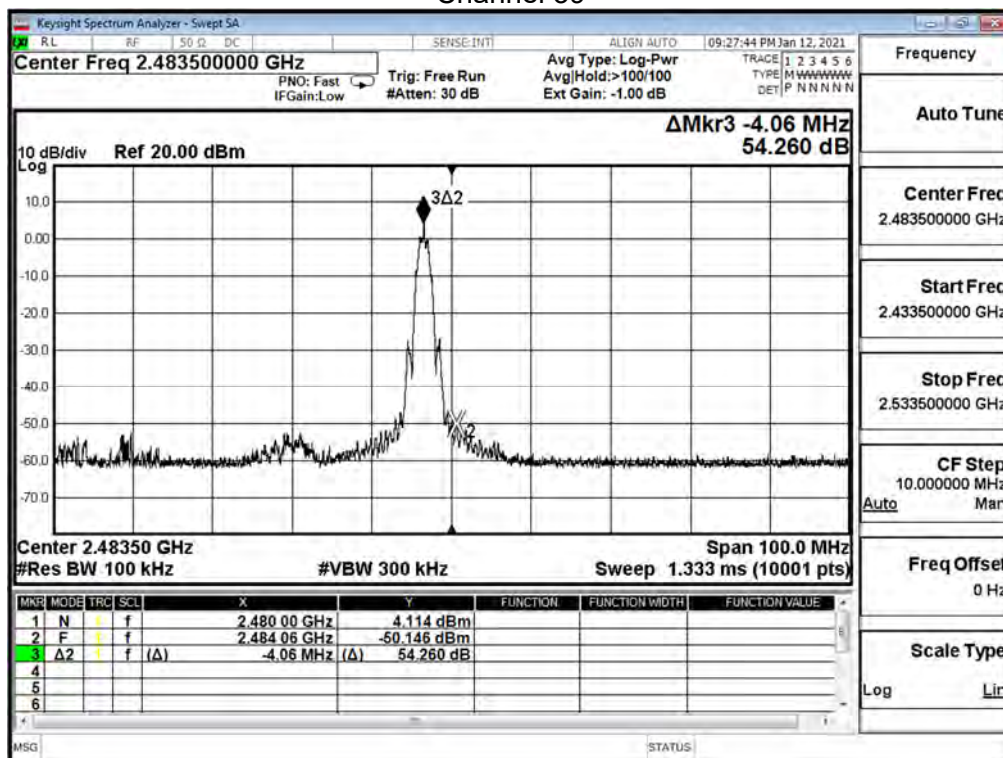
Channel 19



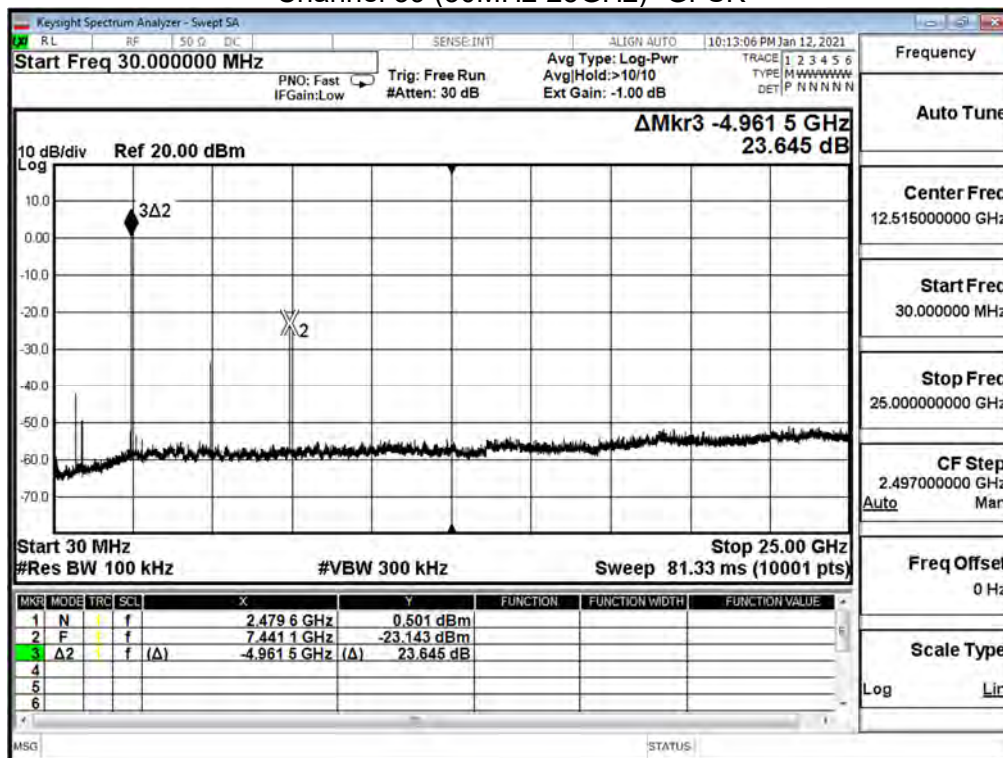
Channel 19 (30MHz-25GHz)- GFSK



Channel 39



Channel 39 (30MHz-25GHz)- GFSK

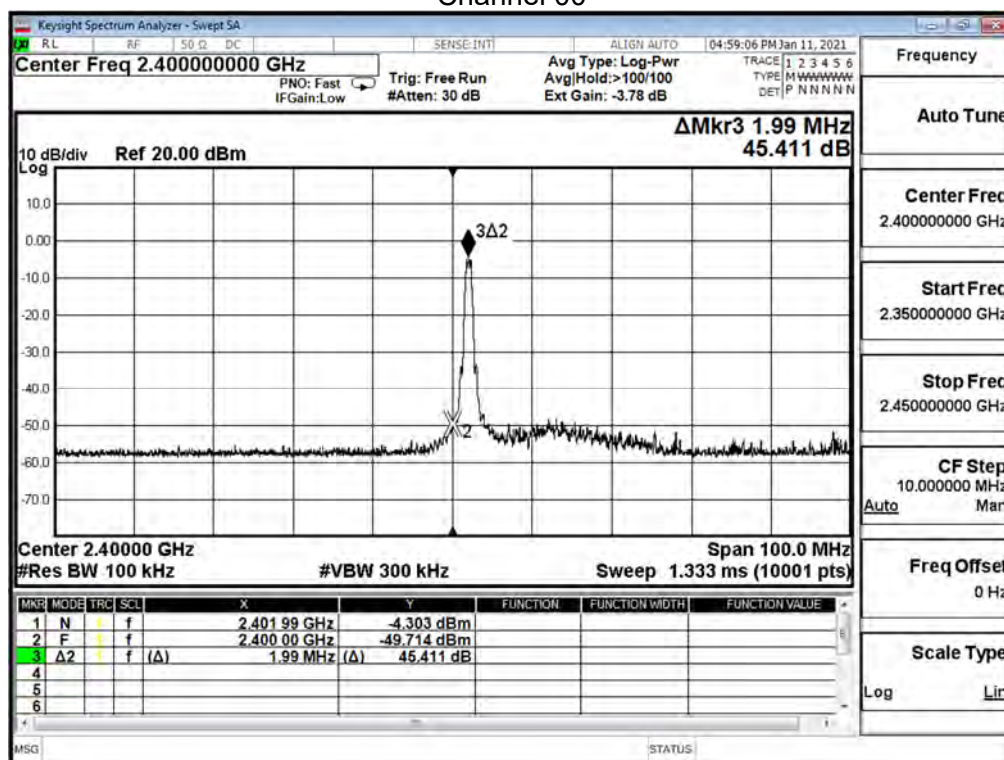


Product	Connectivity Module		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2021/01/11	Test Site	SR12-H
Temperature(°C)	18.0	Humidity (%RH)	60.0

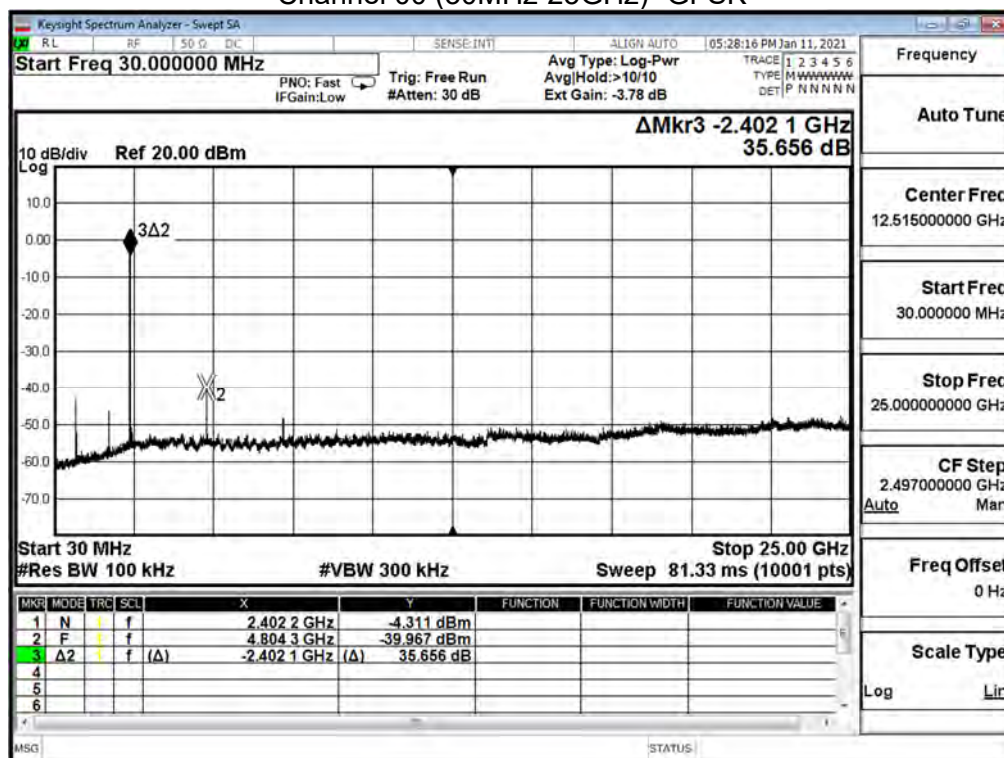
GFSK_(External Antenna)_BT5.0_1M

Channel No.	Frequency (MHz)	Measure Value (dBc)	Limit (dBc)
00	2402	35.656	≥ 20
19	2440	34.259	≥ 20
39	2480	34.445	≥ 20

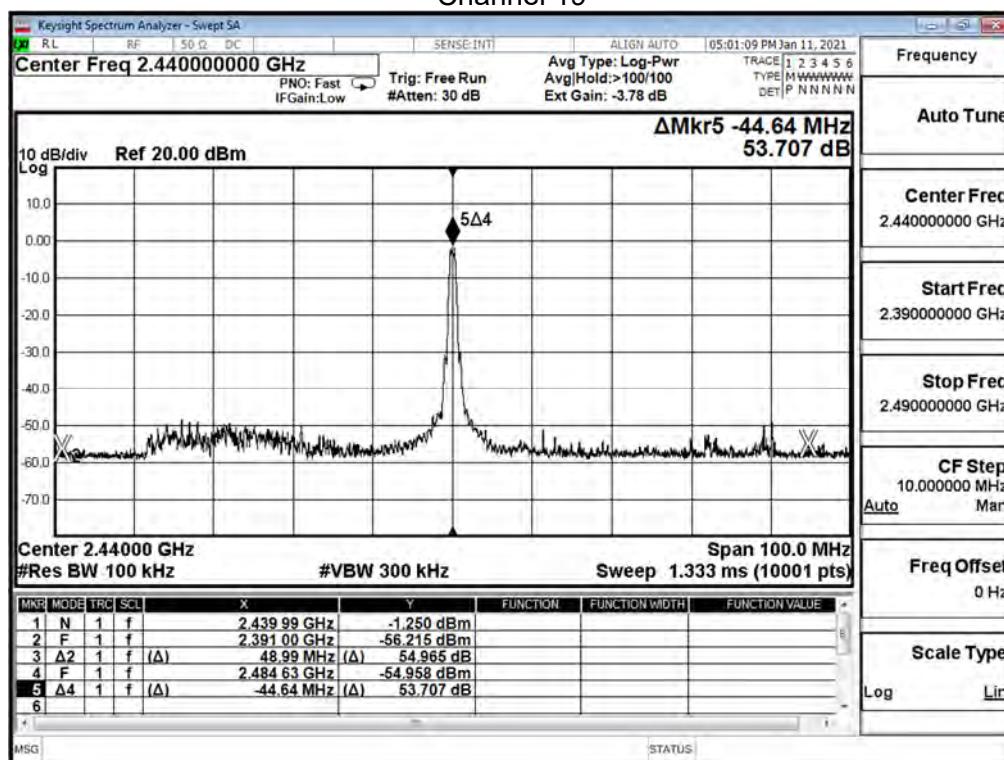
Channel 00



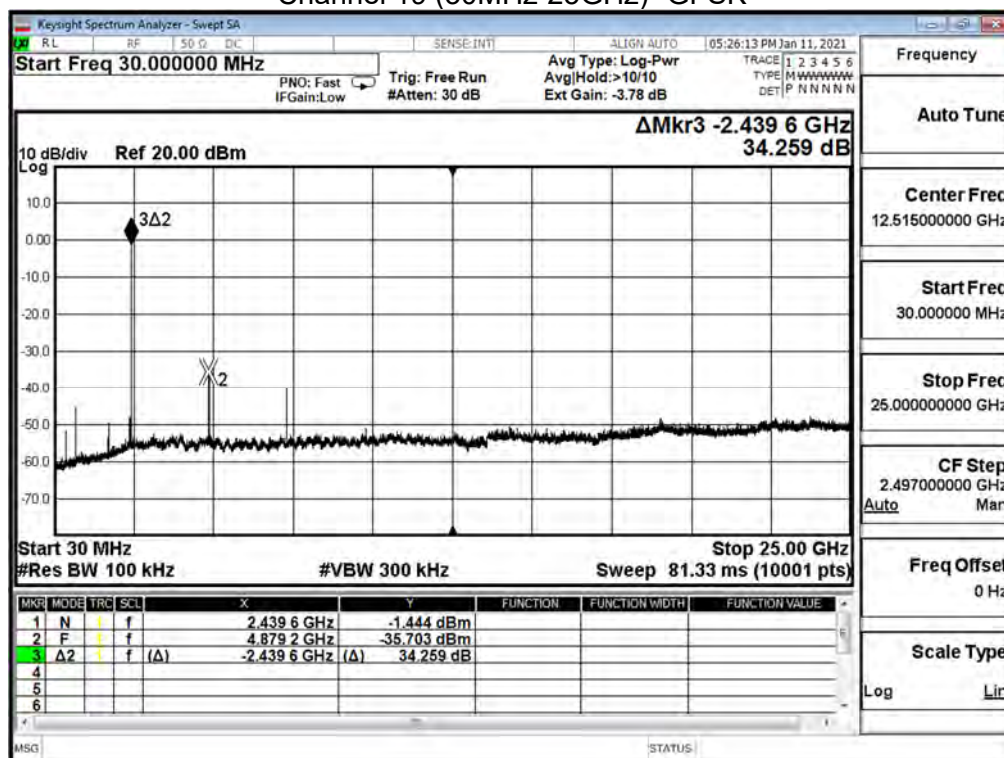
Channel 00 (30MHz-25GHz)- GFSK



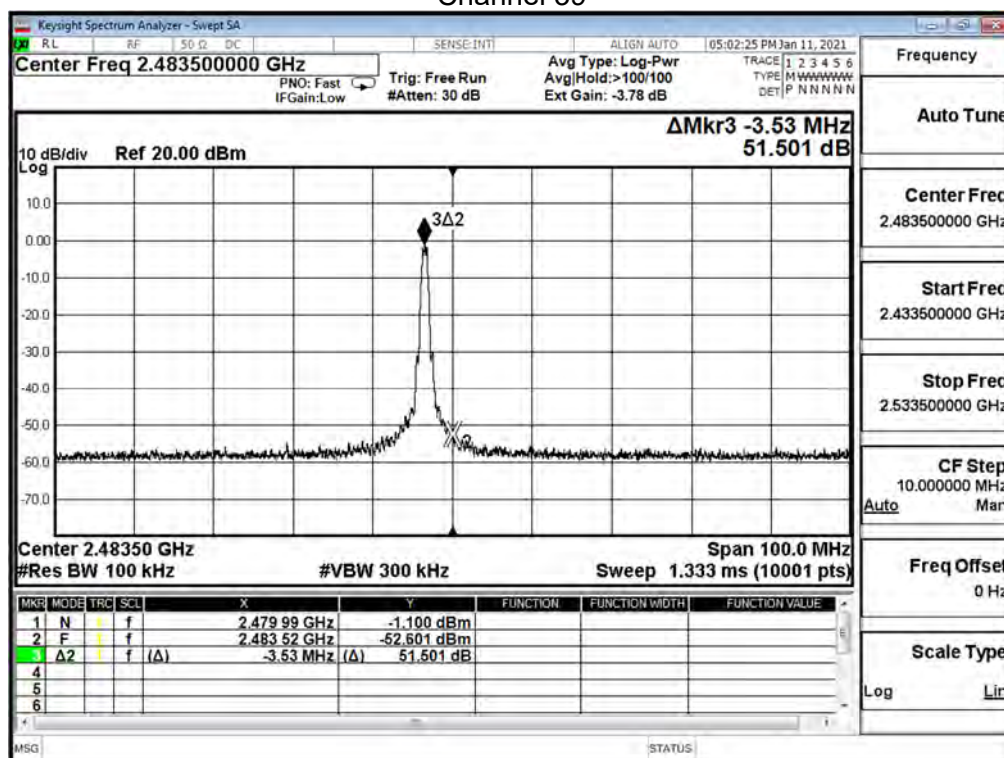
Channel 19



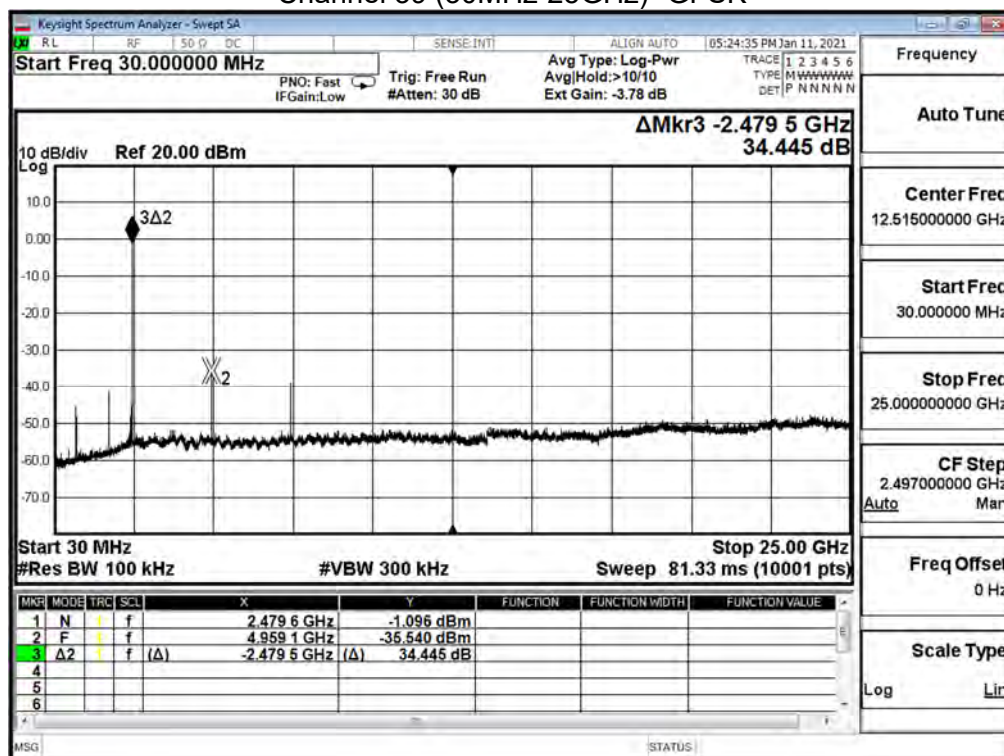
Channel 19 (30MHz-25GHz)- GFSK



Channel 39



Channel 39 (30MHz-25GHz)- GFSK

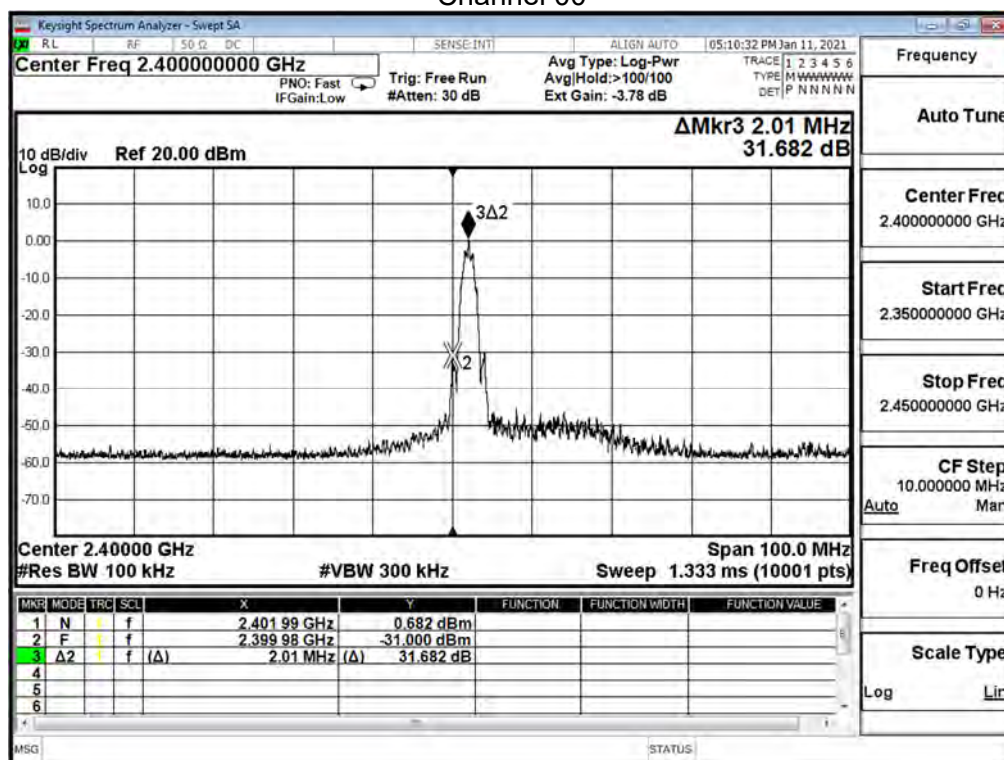


Product	Connectivity Module		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2021/01/11	Test Site	SR12-H
Temperature(°C)	18.0	Humidity (%RH)	60.0

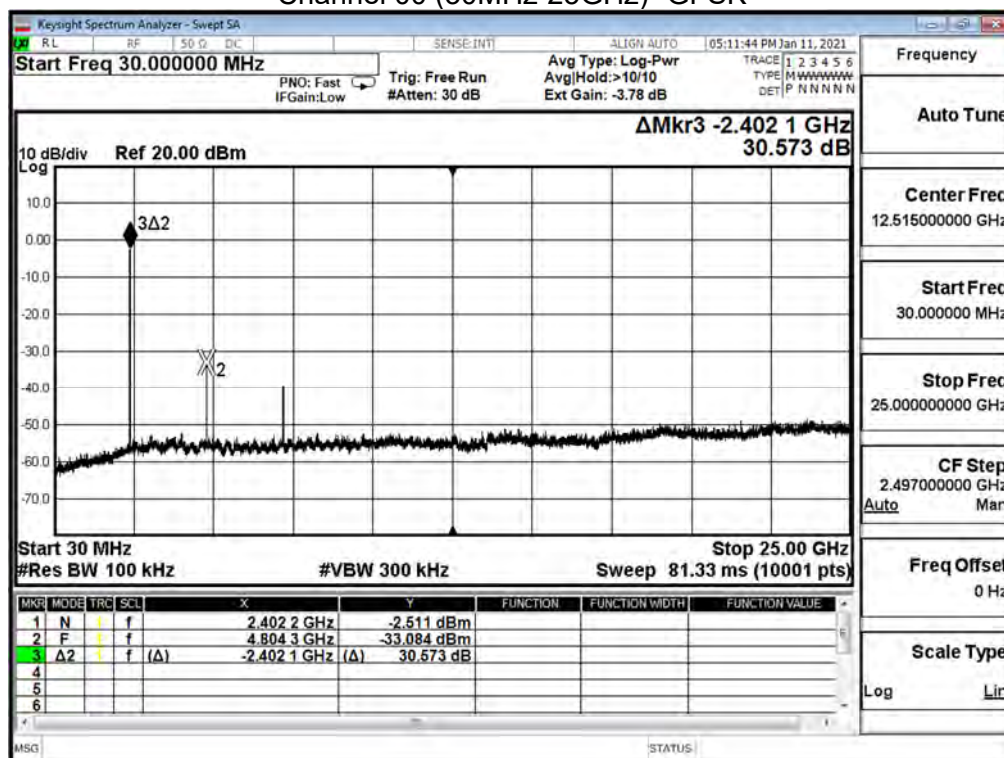
GFSK_(External Antenna)_BT5.0_2M

Channel No.	Frequency (MHz)	Measure Value (dBc)	Limit (dBc)
00	2402	30.573	≥ 20
19	2440	35.786	≥ 20
39	2480	35.196	≥ 20

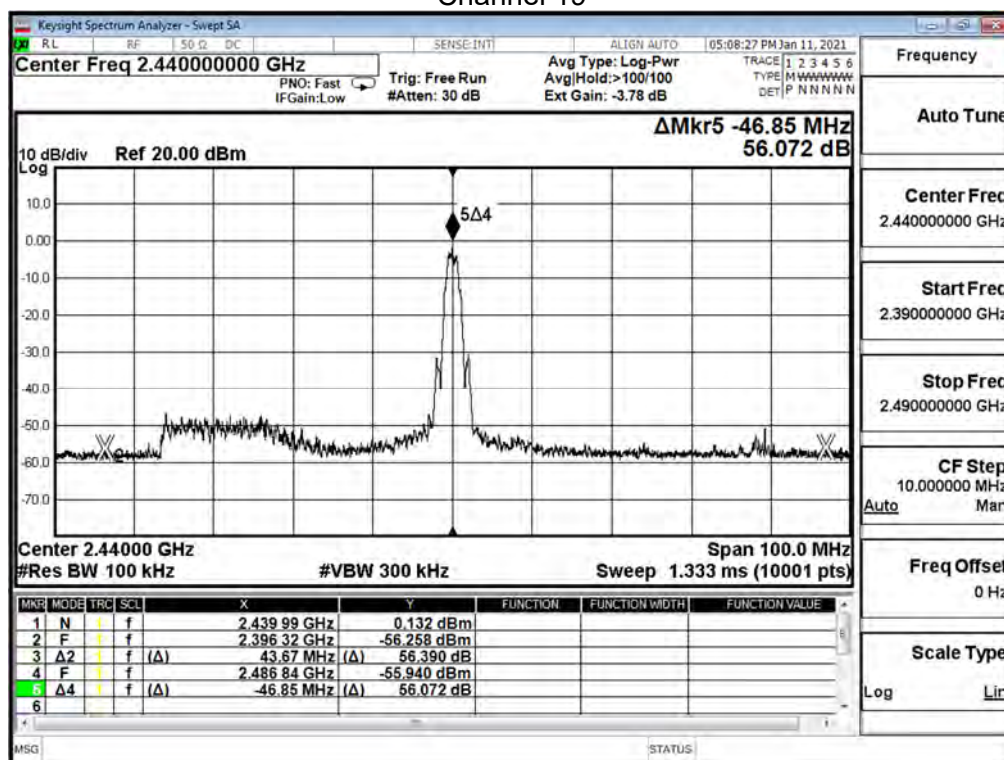
Channel 00



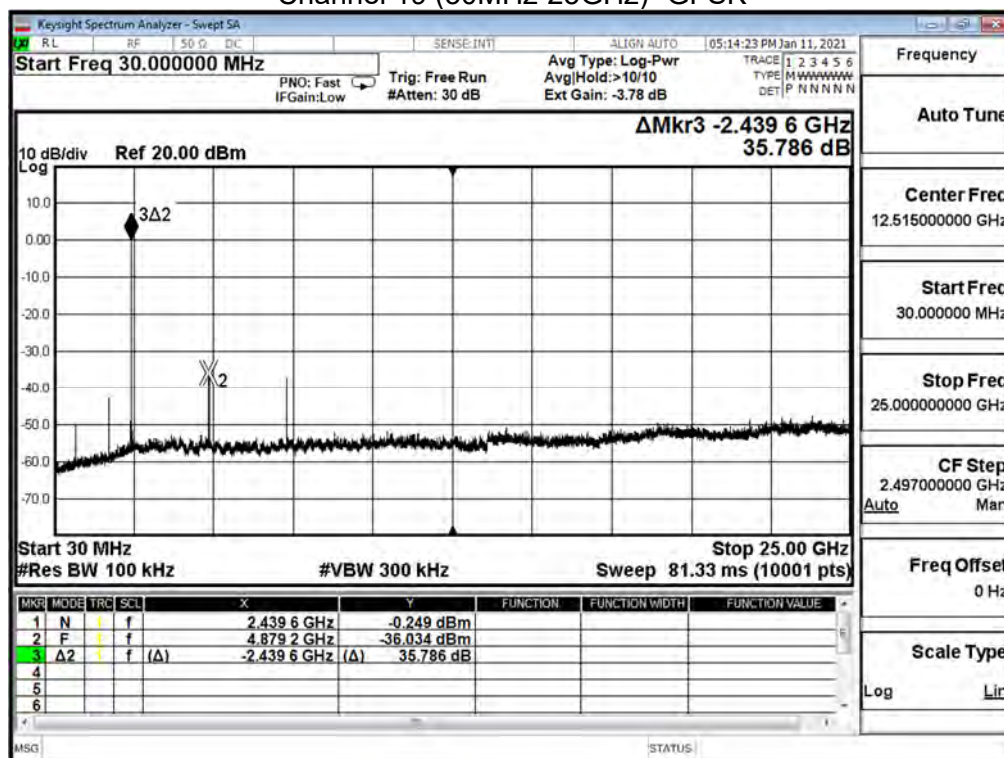
Channel 00 (30MHz-25GHz)- GFSK



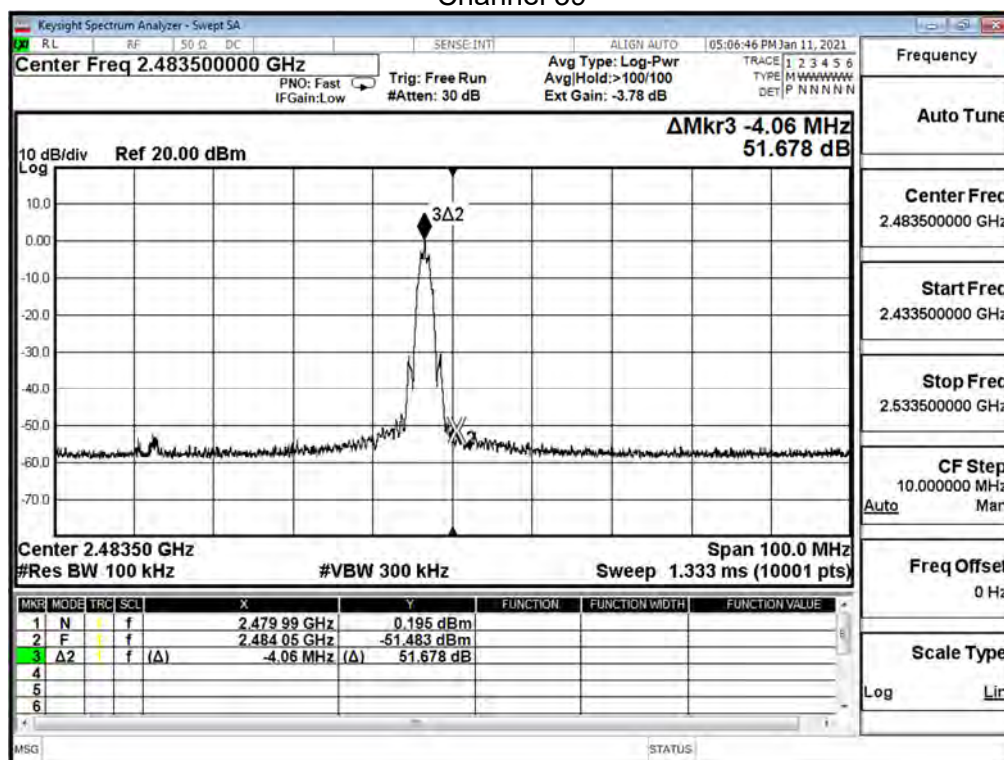
Channel 19



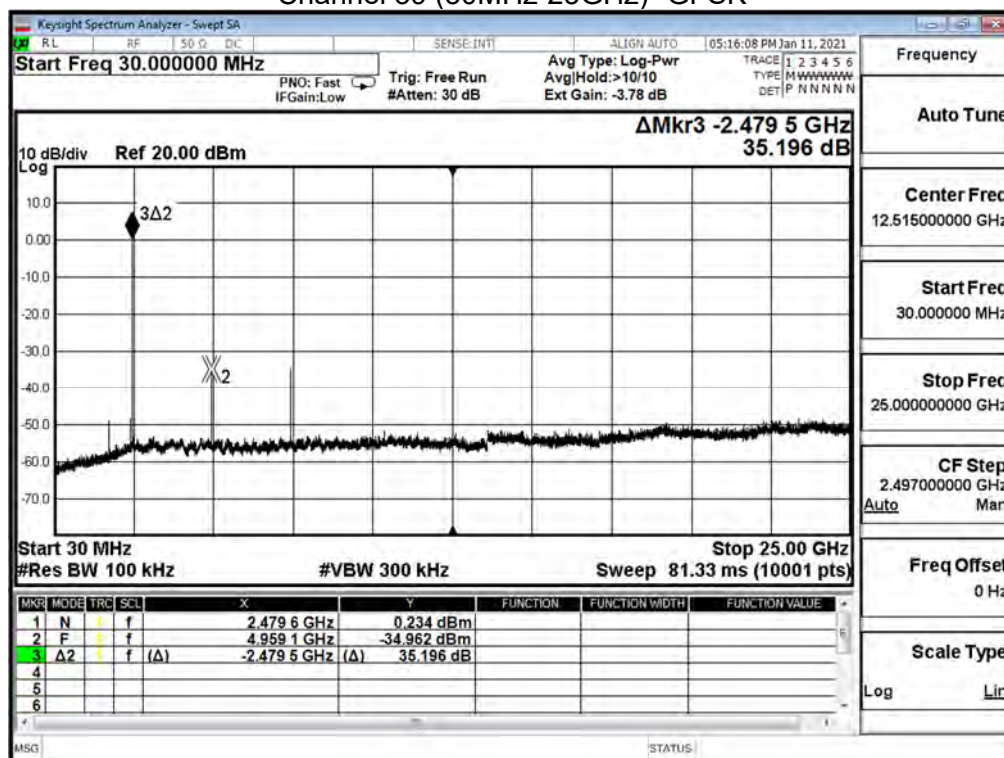
Channel 19 (30MHz-25GHz)- GFSK



Channel 39



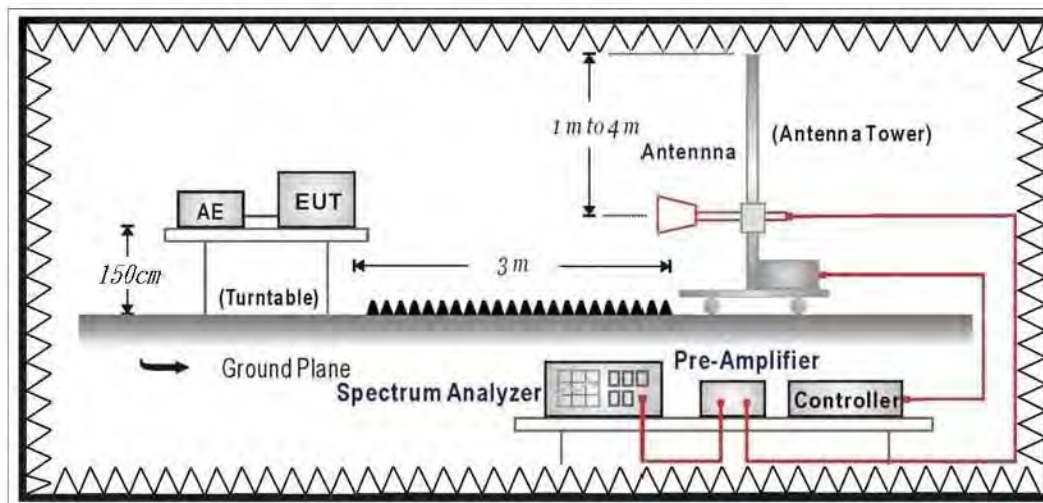
Channel 39 (30MHz-25GHz)- GFSK



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 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 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.

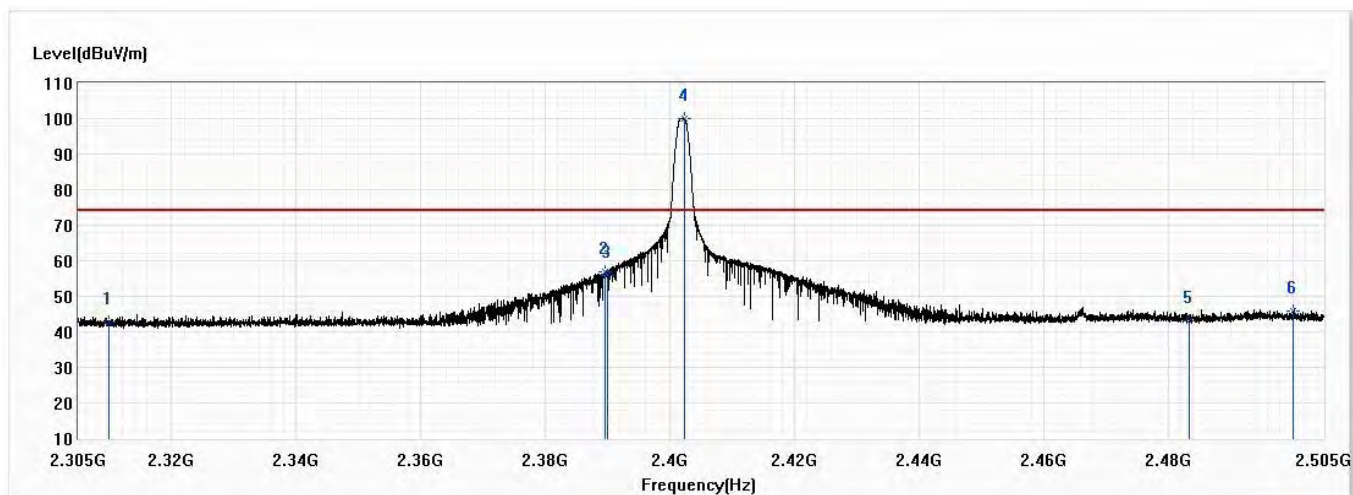
6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019

6.5. Test Result

(Internal Antenna)_BT5.0_1M

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	56.1

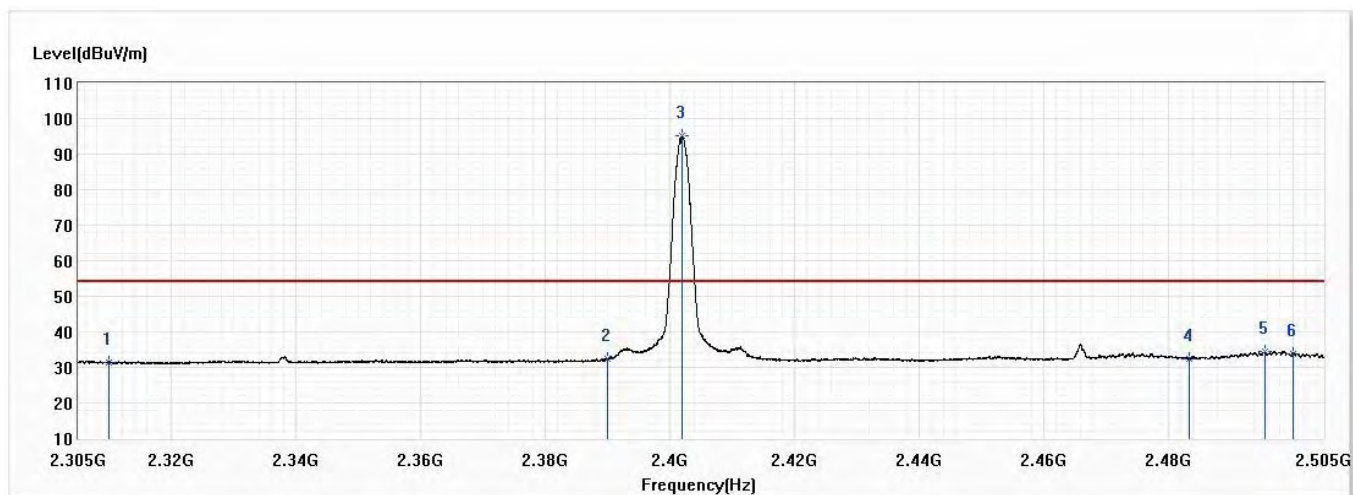


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	42.59	74.00	-31.41	29.44	13.15	PK
2	2389.525	56.88	74.00	-17.12	43.18	13.70	PK
3	2390.000	55.84	74.00	-18.16	42.14	13.70	PK
! 4	2402.275	100.07	74.00	26.07	86.28	13.79	PK
5	2483.500	43.04	74.00	-30.96	28.68	14.36	PK
6	2500.000	45.88	74.00	-28.12	31.40	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	56.1

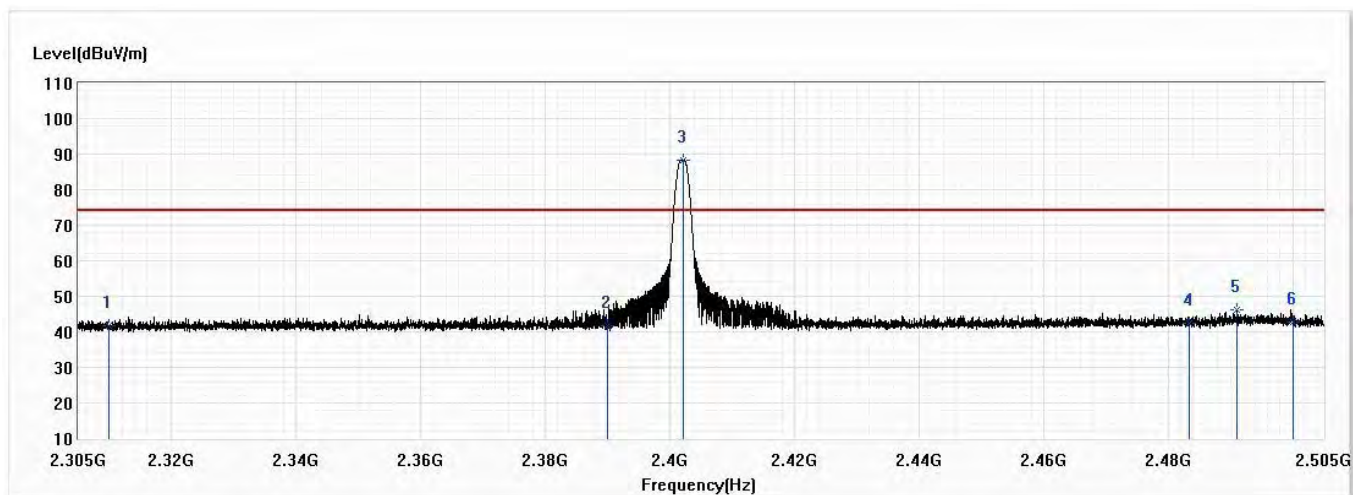


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.55	54.00	-22.45	18.40	13.15	AV
2	2390.000	32.40	54.00	-21.60	18.70	13.70	AV
! 3	2401.925	95.07	54.00	41.07	81.28	13.79	AV
4	2483.500	32.39	54.00	-21.61	18.03	14.36	AV
5	2495.525	34.46	54.00	-19.54	20.02	14.44	AV
6	2500.000	33.90	54.00	-20.10	19.42	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	56.1

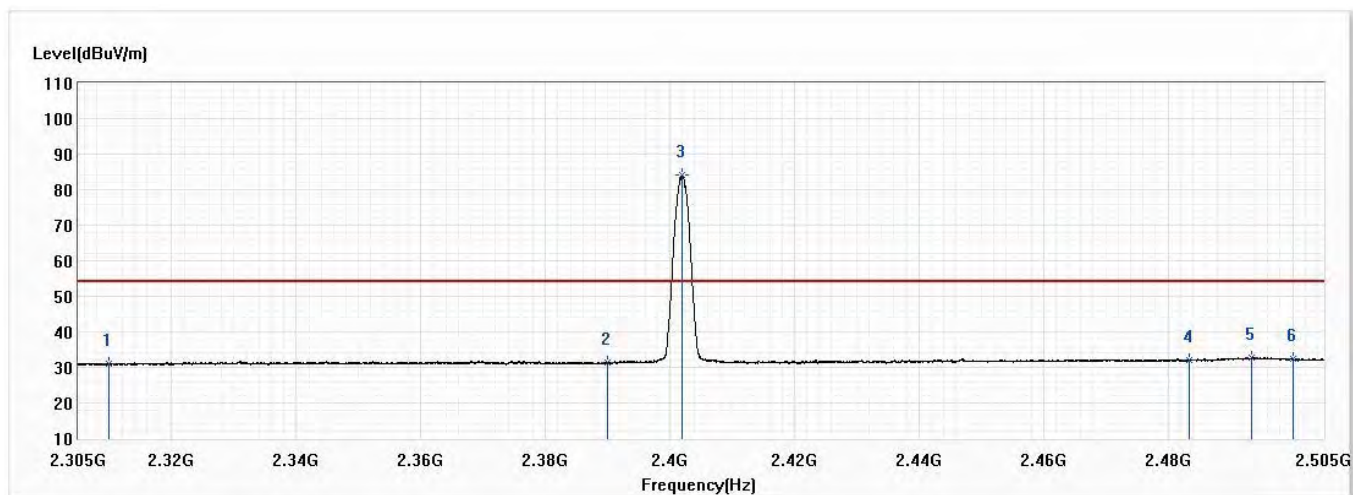


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.74	74.00	-32.26	28.59	13.15	PK
2	2390.000	41.63	74.00	-32.37	27.93	13.70	PK
! 3	2402.250	88.30	74.00	14.30	74.51	13.79	PK
4	2483.500	42.52	74.00	-31.48	28.16	14.36	PK
5	2491.100	46.23	74.00	-27.77	31.82	14.41	PK
6	2500.000	42.67	74.00	-31.33	28.19	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	56.1

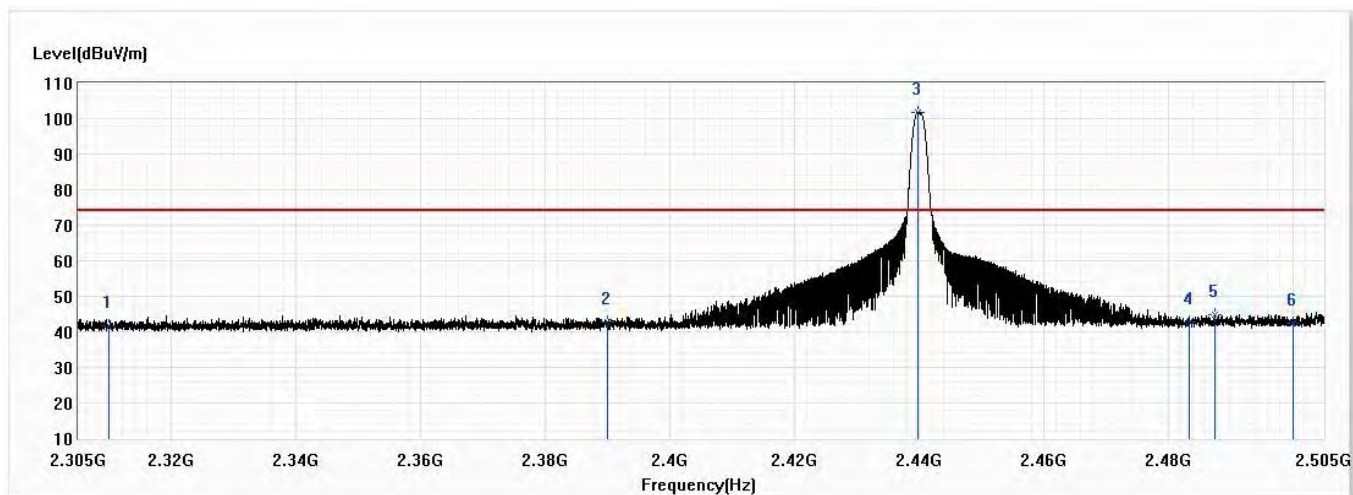


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.05	54.00	-22.95	17.90	13.15	AV
2	2390.000	31.35	54.00	-22.65	17.65	13.70	AV
! 3	2401.950	84.05	54.00	30.05	70.26	13.79	AV
4	2483.500	31.94	54.00	-22.06	17.58	14.36	AV
5	2493.375	32.71	54.00	-21.29	18.27	14.44	AV
6	2500.000	32.35	54.00	-21.65	17.87	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW1M	Humidity (%RH)	56.1

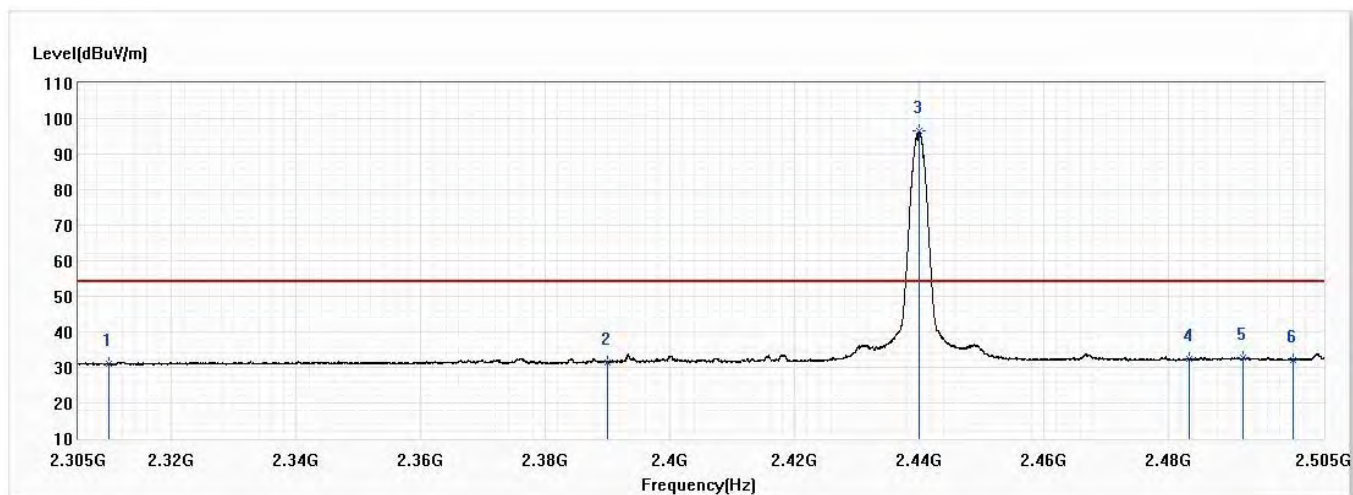


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.78	74.00	-32.22	28.63	13.15	PK
2	2390.000	42.70	74.00	-31.30	29.00	13.70	PK
! 3	2439.750	101.59	74.00	27.59	87.54	14.05	PK
4	2483.500	42.71	74.00	-31.29	28.35	14.36	PK
5	2487.575	44.78	74.00	-29.22	30.38	14.40	PK
6	2500.000	42.41	74.00	-31.59	27.93	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW1M	Humidity (%RH)	56.1

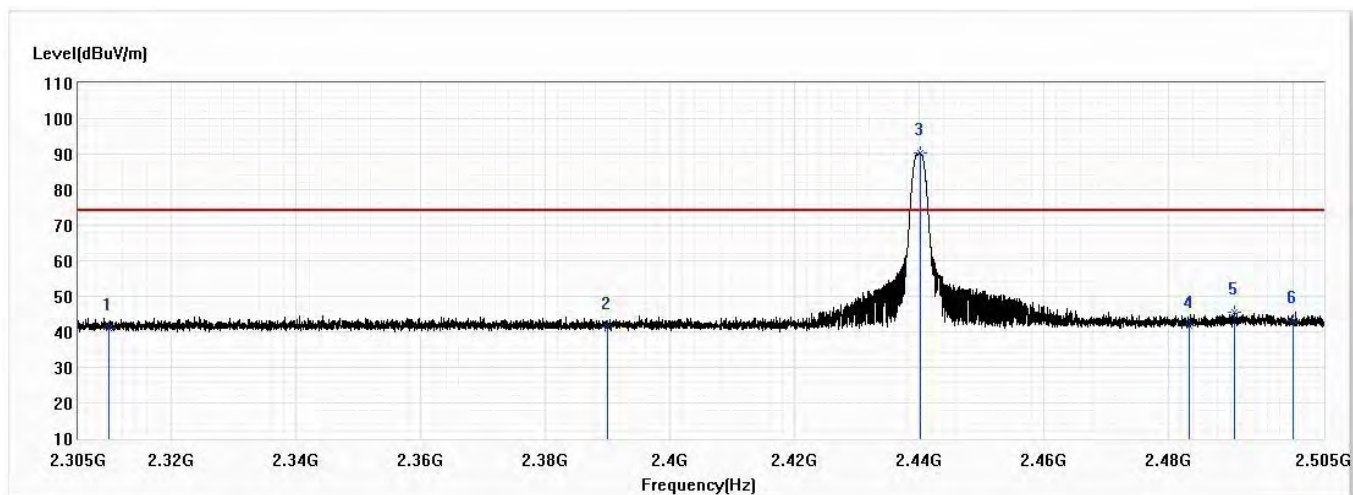


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.11	54.00	-22.89	17.96	13.15	AV
2	2390.000	31.39	54.00	-22.61	17.69	13.70	AV
! 3	2439.950	96.50	54.00	42.50	82.45	14.05	AV
4	2483.500	32.29	54.00	-21.71	17.93	14.36	AV
5	2492.125	32.73	54.00	-21.27	18.30	14.43	AV
6	2500.000	32.15	54.00	-21.85	17.67	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW1M	Humidity (%RH)	56.1

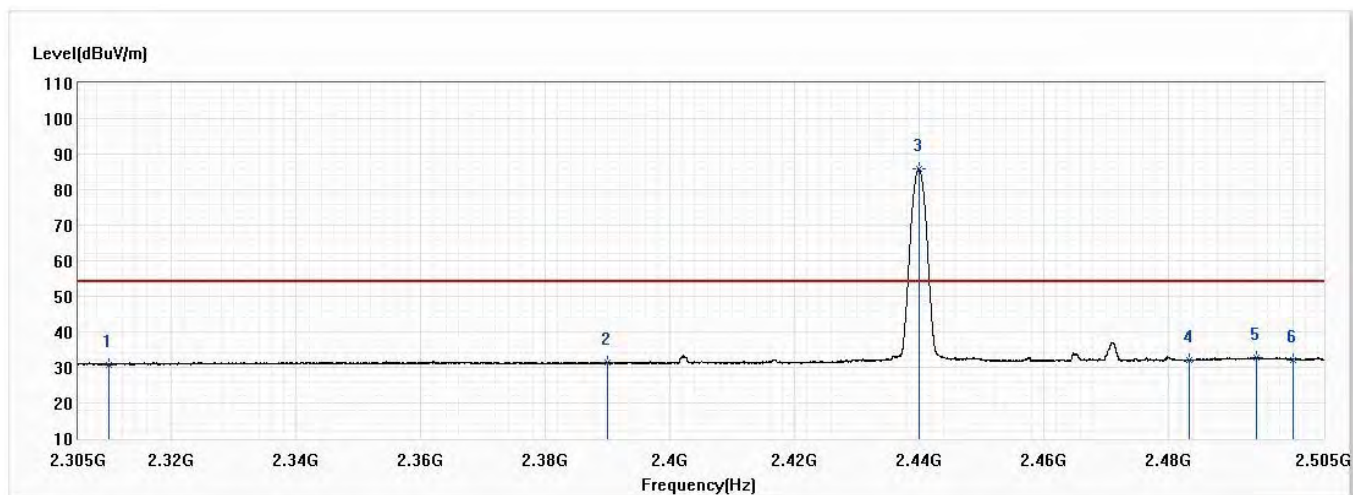


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	40.94	74.00	-33.06	27.79	13.15	PK
2	2390.000	41.52	74.00	-32.48	27.82	13.70	PK
! 3	2440.275	90.20	74.00	16.20	76.15	14.05	PK
4	2483.500	41.69	74.00	-32.31	27.33	14.36	PK
5	2490.575	45.57	74.00	-28.43	31.16	14.41	PK
6	2500.000	43.26	74.00	-30.74	28.78	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW1M	Humidity (%RH)	56.1

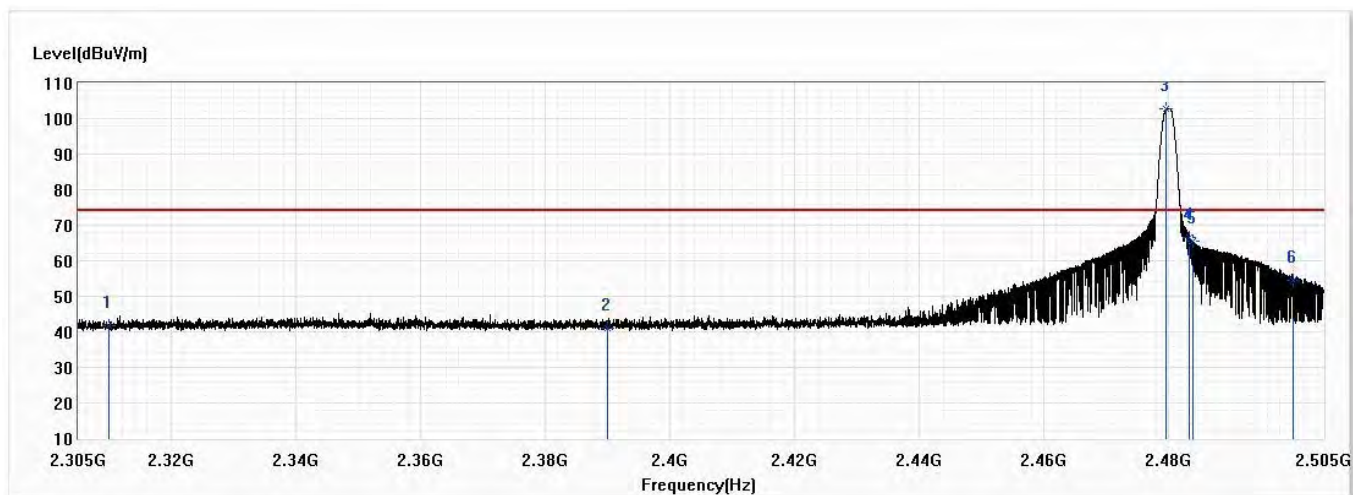


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.76	54.00	-23.24	17.61	13.15	AV
2	2390.000	31.34	54.00	-22.66	17.64	13.70	AV
! 3	2439.950	85.84	54.00	31.84	71.79	14.05	AV
4	2483.500	32.14	54.00	-21.86	17.78	14.36	AV
5	2494.150	32.68	54.00	-21.32	18.24	14.44	AV
6	2500.000	32.18	54.00	-21.82	17.70	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW1M	Humidity (%RH)	56.1

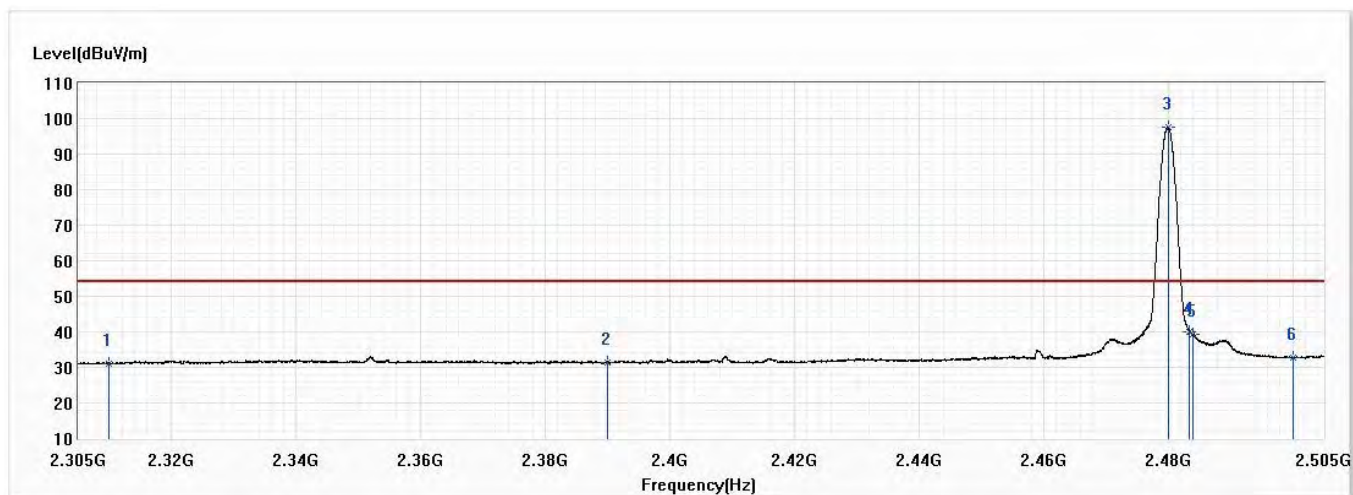


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.63	74.00	-32.37	28.48	13.15	PK
2	2390.000	40.99	74.00	-33.01	27.29	13.70	PK
! 3	2479.750	102.88	74.00	28.88	88.54	14.34	PK
4	2483.500	66.42	74.00	-7.58	52.06	14.36	PK
5	2483.925	65.63	74.00	-8.37	51.27	14.36	PK
6	2500.000	54.48	74.00	-19.52	40.00	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW1M	Humidity (%RH)	56.1

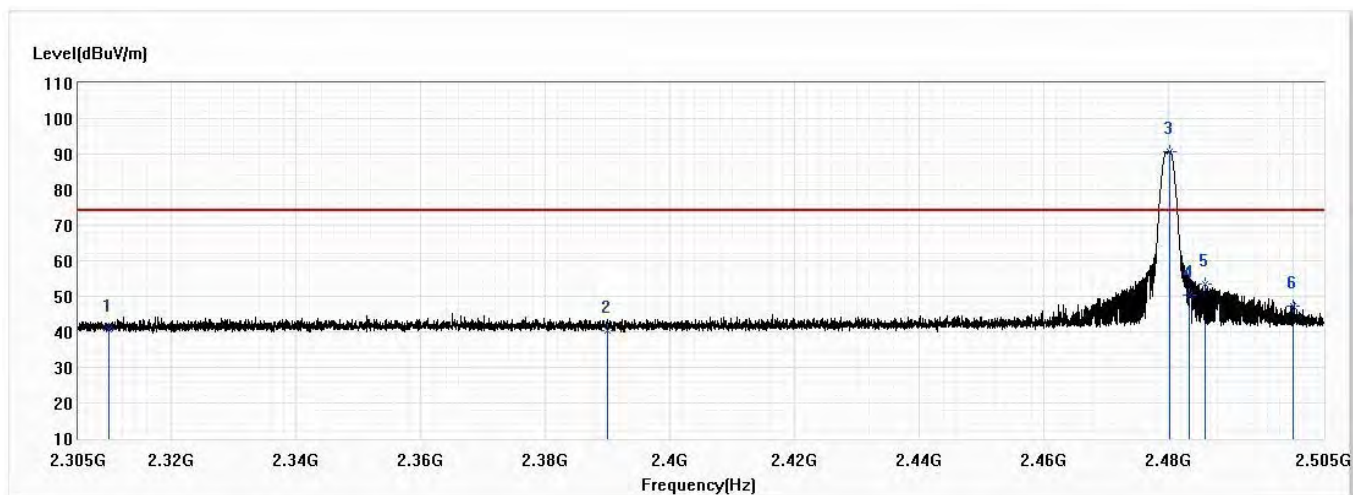


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.10	54.00	-22.90	17.95	13.15	AV
2	2390.000	31.49	54.00	-22.51	17.79	13.70	AV
! 3	2480.000	97.70	54.00	43.70	83.36	14.34	AV
4	2483.500	40.05	54.00	-13.95	25.69	14.36	AV
5	2483.950	39.15	54.00	-14.85	24.79	14.36	AV
6	2500.000	32.68	54.00	-21.32	18.20	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW1M	Humidity (%RH)	56.1

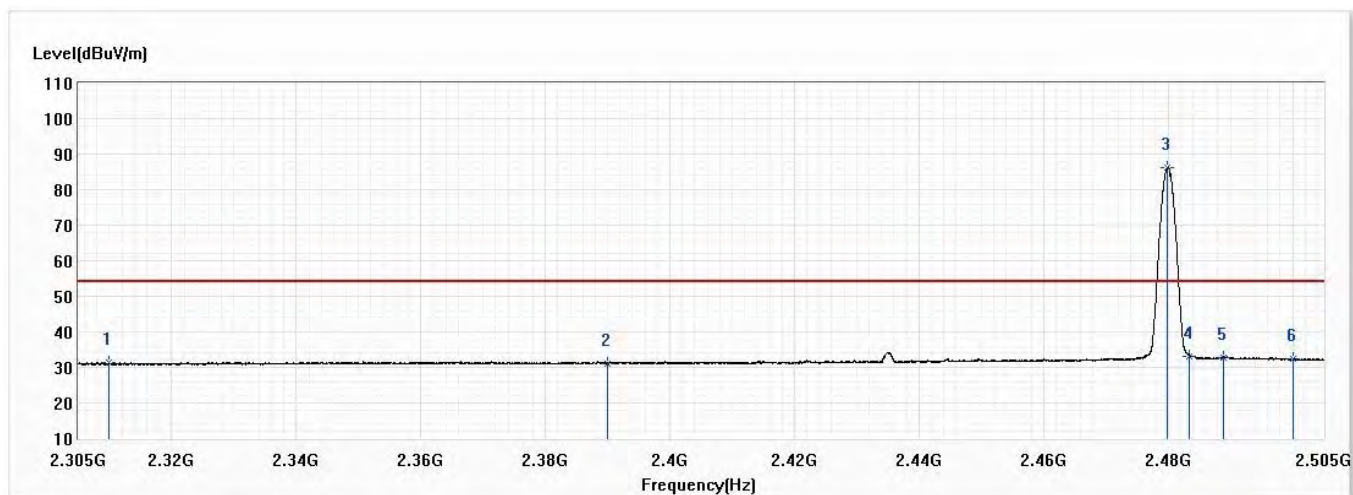


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	40.81	74.00	-33.19	27.66	13.15	PK
2	2390.000	40.51	74.00	-33.49	26.81	13.70	PK
! 3	2480.250	90.62	74.00	16.62	76.28	14.34	PK
4	2483.500	50.19	74.00	-23.81	35.83	14.36	PK
5	2486.000	53.42	74.00	-20.58	39.04	14.38	PK
6	2500.000	47.11	74.00	-26.89	32.63	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW1M	Humidity (%RH)	56.1



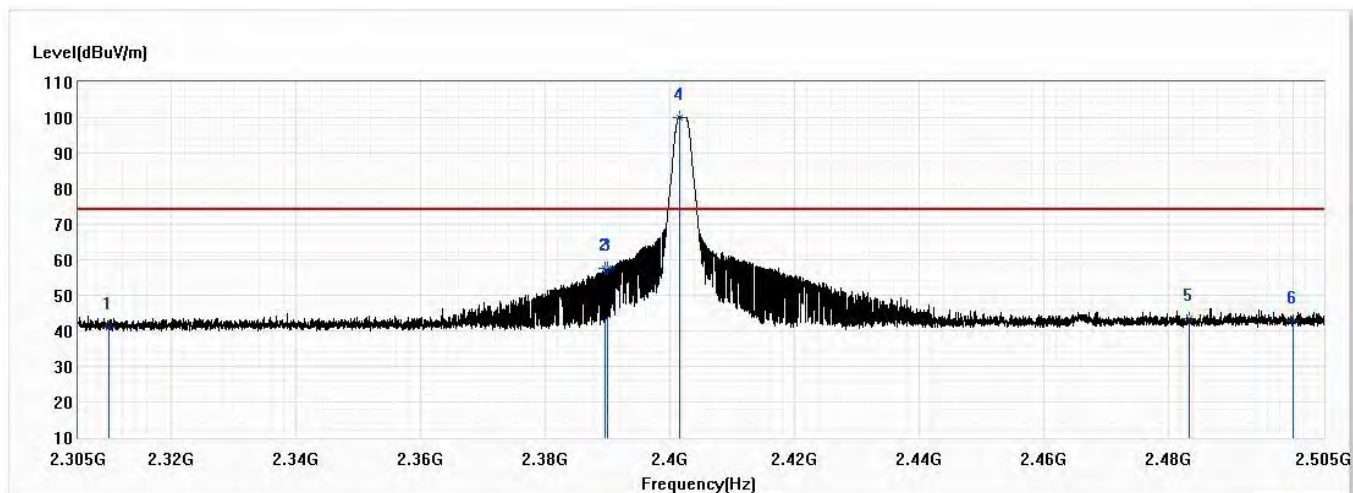
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.31	54.00	-22.69	18.16	13.15	AV
2	2390.000	31.15	54.00	-22.85	17.45	13.70	AV
! 3	2479.950	86.23	54.00	32.23	71.89	14.34	AV
4	2483.500	33.26	54.00	-20.74	18.90	14.36	AV
5	2488.975	32.93	54.00	-21.07	18.53	14.40	AV
6	2500.000	32.33	54.00	-21.67	17.85	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.

(Internal Antenna)_BT5.0_2M

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	56.1

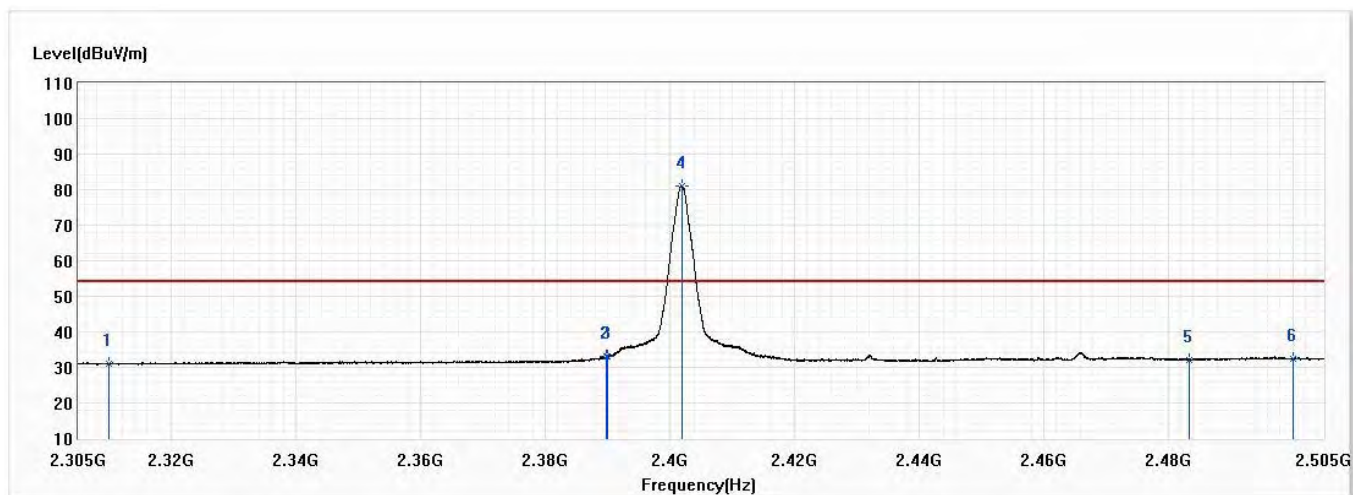


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	40.89	74.00	-33.11	27.74	13.15	PK
2	2389.600	57.51	74.00	-16.49	43.81	13.70	PK
3	2390.000	57.70	74.00	-16.30	44.00	13.70	PK
! 4	2401.525	100.17	74.00	26.17	86.38	13.79	PK
5	2483.500	43.36	74.00	-30.64	29.00	14.36	PK
6	2500.000	42.59	74.00	-31.41	28.11	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	56.1

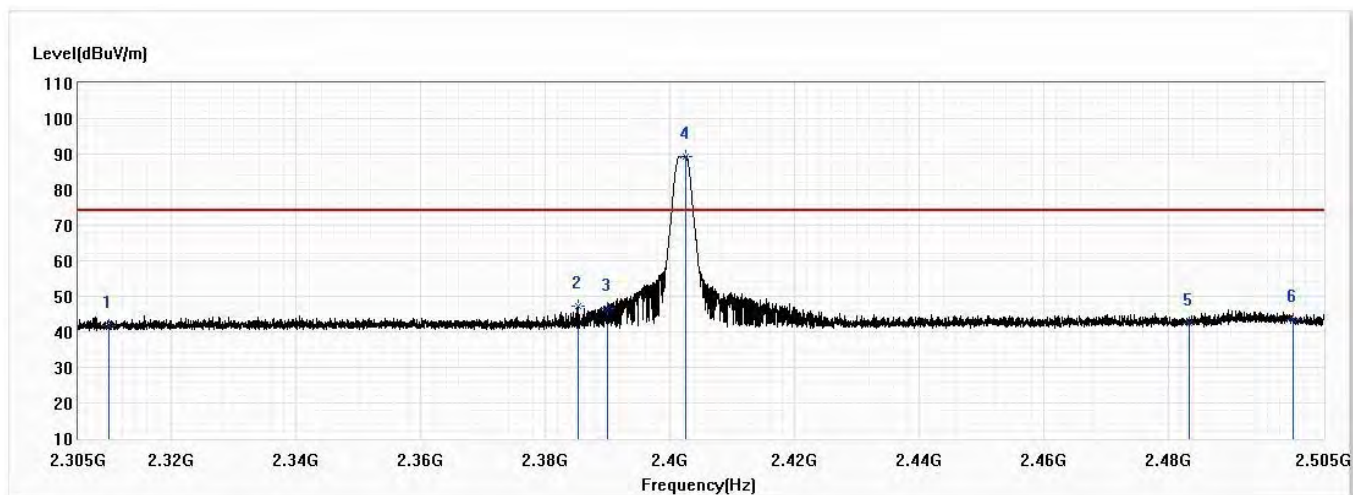


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.19	54.00	-22.81	18.04	13.15	AV
2	2389.800	33.14	54.00	-20.86	19.44	13.70	AV
3	2390.000	33.17	54.00	-20.83	19.47	13.70	AV
! 4	2401.975	81.08	54.00	27.08	67.29	13.79	AV
5	2483.500	32.24	54.00	-21.76	17.88	14.36	AV
6	2500.000	32.42	54.00	-21.58	17.94	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	56.1

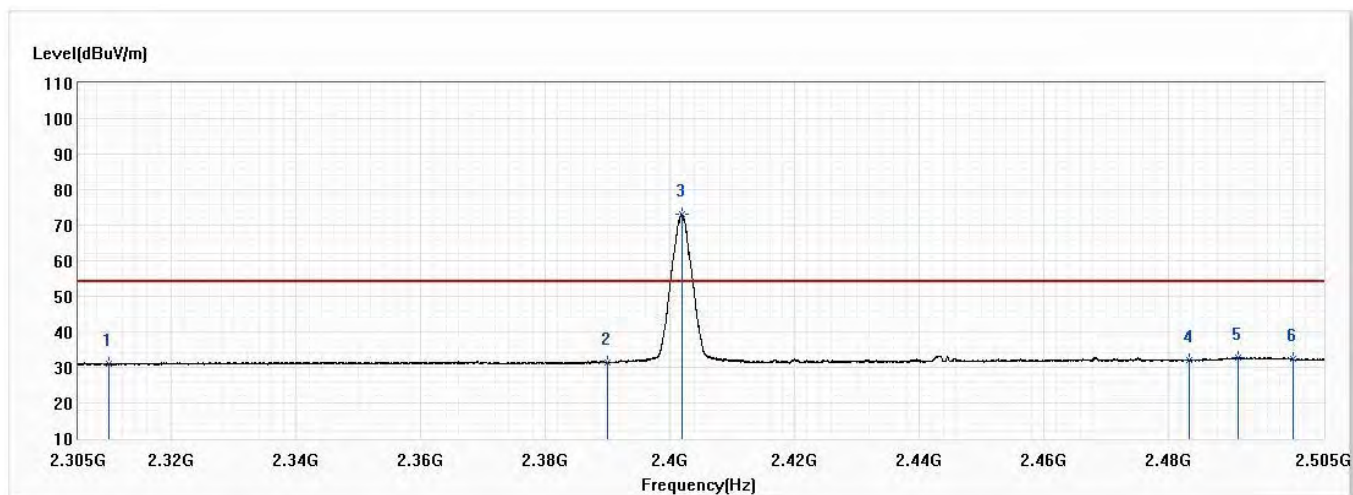


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.73	74.00	-32.27	28.58	13.15	PK
2	2385.225	47.19	74.00	-26.81	33.52	13.67	PK
3	2390.000	46.63	74.00	-27.37	32.93	13.70	PK
! 4	2402.525	89.39	74.00	15.39	75.60	13.79	PK
5	2483.500	42.25	74.00	-31.75	27.89	14.36	PK
6	2500.000	43.53	74.00	-30.47	29.05	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	56.1

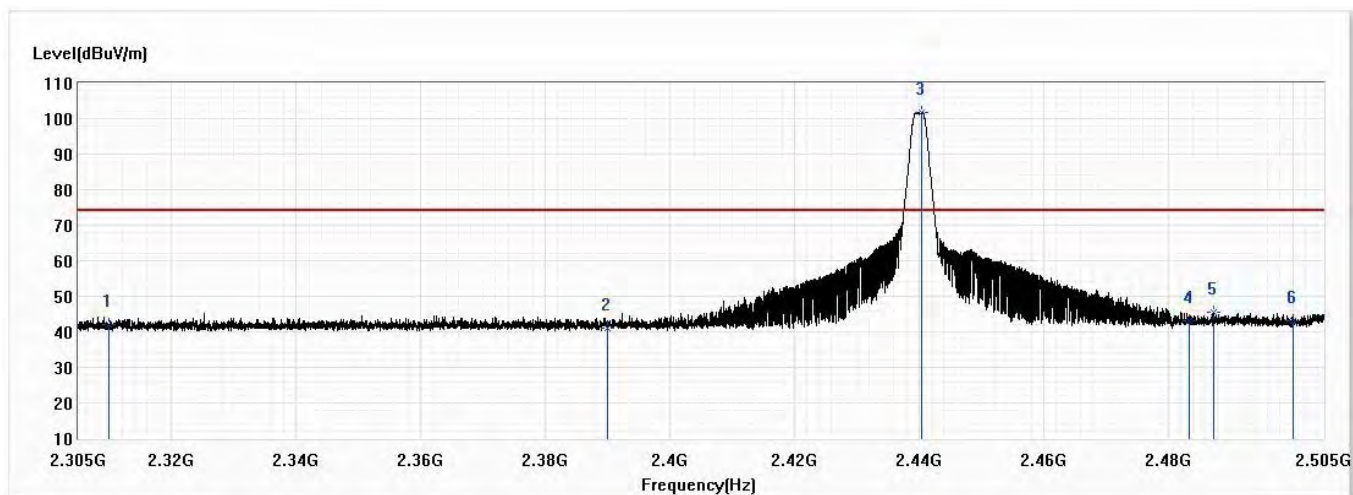


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.99	54.00	-23.01	17.84	13.15	AV
2	2390.000	31.46	54.00	-22.54	17.76	13.70	AV
! 3	2401.875	73.13	54.00	19.13	59.34	13.79	AV
4	2483.500	32.20	54.00	-21.80	17.84	14.36	AV
5	2491.200	32.73	54.00	-21.27	18.32	14.41	AV
6	2500.000	32.35	54.00	-21.65	17.87	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	56.1

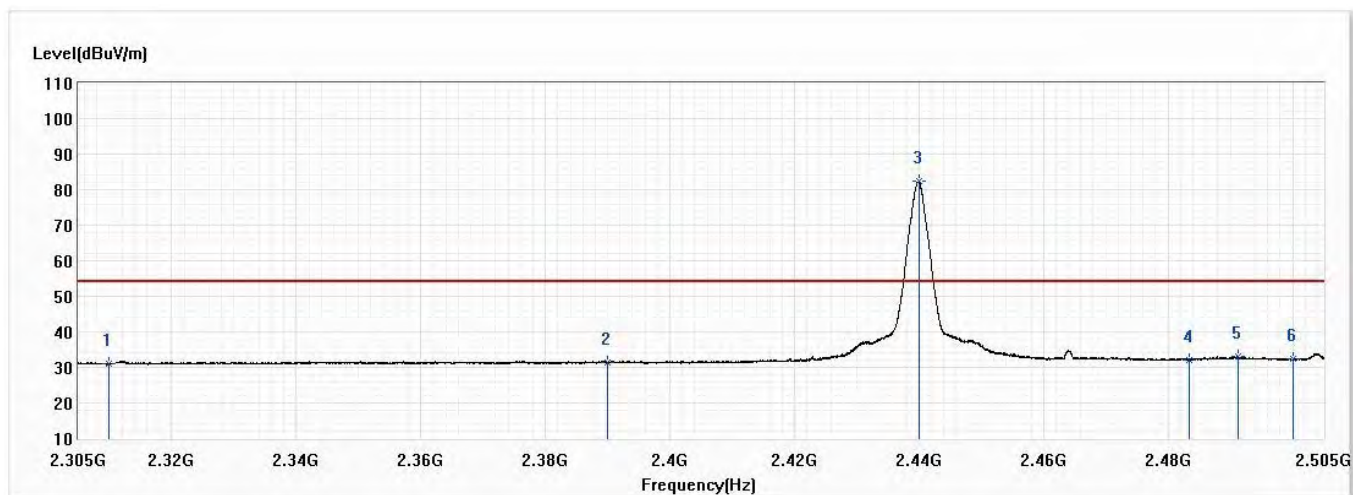


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	42.15	74.00	-31.85	29.00	13.15	PK
2	2390.000	40.89	74.00	-33.11	27.19	13.70	PK
! 3	2440.500	101.65	74.00	27.65	87.59	14.06	PK
4	2483.500	43.27	74.00	-30.73	28.91	14.36	PK
5	2487.375	45.56	74.00	-28.44	31.17	14.39	PK
6	2500.000	43.21	74.00	-30.79	28.73	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	56.1

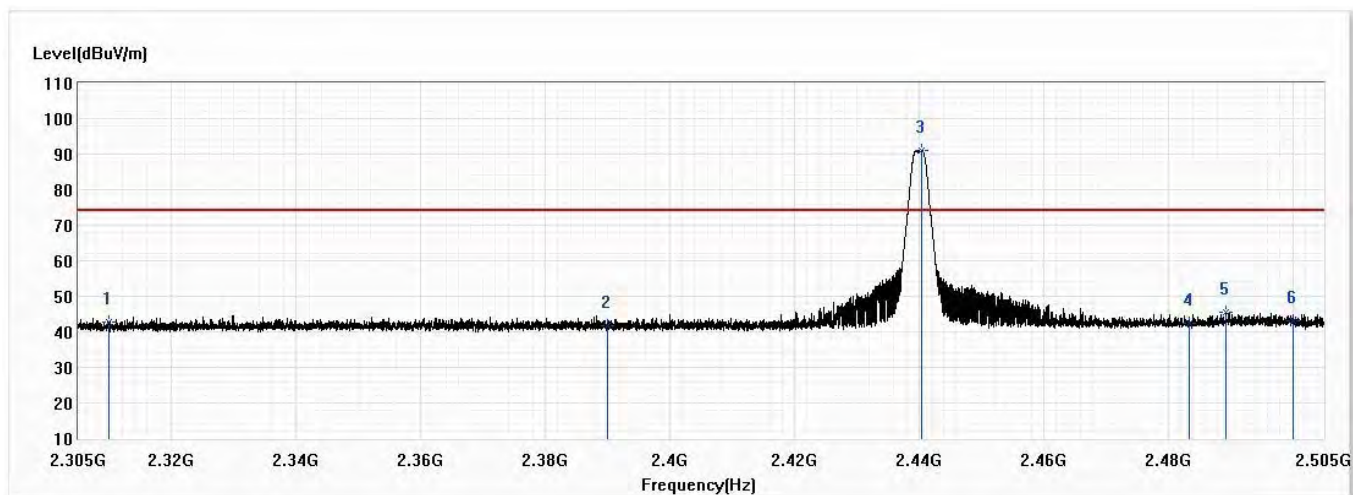


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.89	54.00	-23.11	17.74	13.15	AV
2	2390.000	31.34	54.00	-22.66	17.64	13.70	AV
! 3	2439.950	82.25	54.00	28.25	68.20	14.05	AV
4	2483.500	32.15	54.00	-21.85	17.79	14.36	AV
5	2491.200	33.01	54.00	-20.99	18.60	14.41	AV
6	2500.000	32.27	54.00	-21.73	17.79	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	56.1

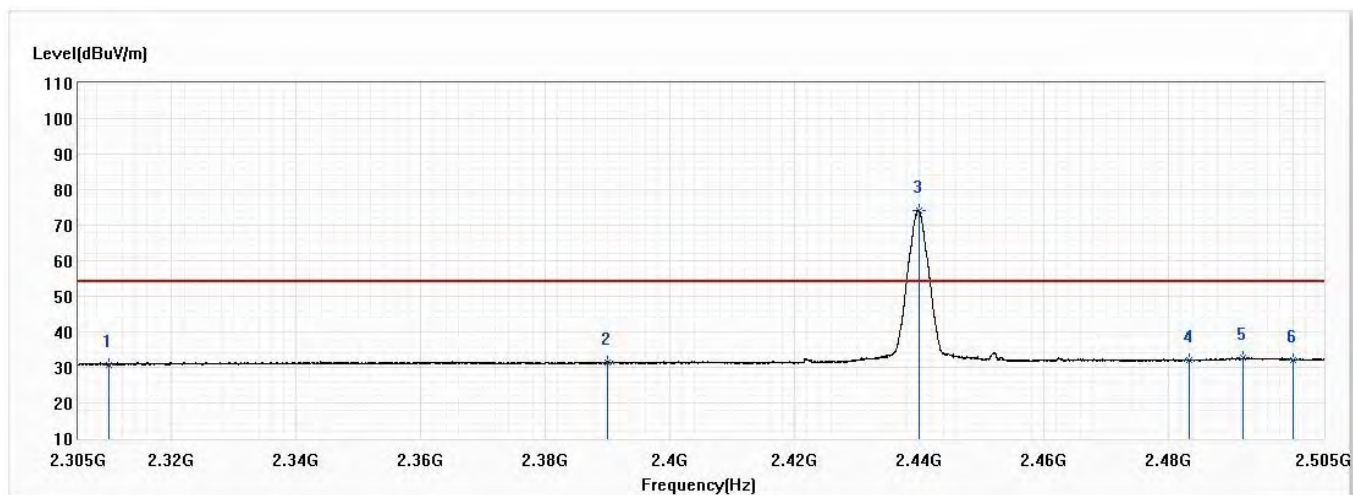


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	42.87	74.00	-31.13	29.72	13.15	PK
2	2390.000	41.60	74.00	-32.40	27.90	13.70	PK
! 3	2440.500	90.92	74.00	16.92	76.86	14.06	PK
4	2483.500	42.31	74.00	-31.69	27.95	14.36	PK
5	2489.350	45.35	74.00	-28.65	30.95	14.40	PK
6	2500.000	43.21	74.00	-30.79	28.73	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	56.1

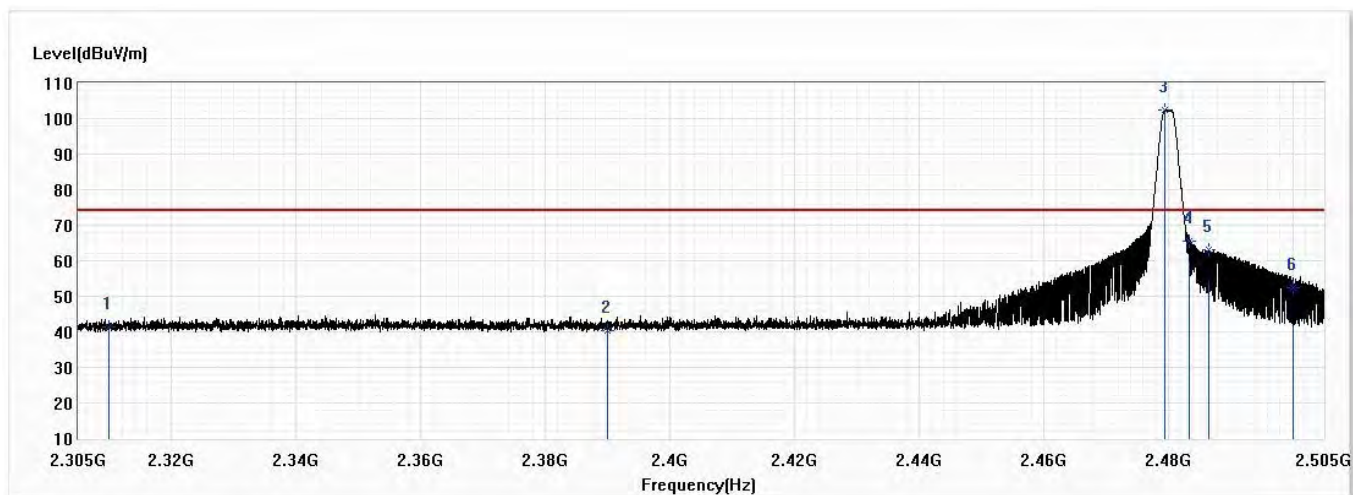


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.83	54.00	-23.17	17.68	13.15	AV
2	2390.000	31.49	54.00	-22.51	17.79	13.70	AV
! 3	2439.975	74.26	54.00	20.26	60.21	14.05	AV
4	2483.500	31.99	54.00	-22.01	17.63	14.36	AV
5	2492.075	32.72	54.00	-21.28	18.29	14.43	AV
6	2500.000	32.12	54.00	-21.88	17.64	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW2M	Humidity (%RH)	56.1

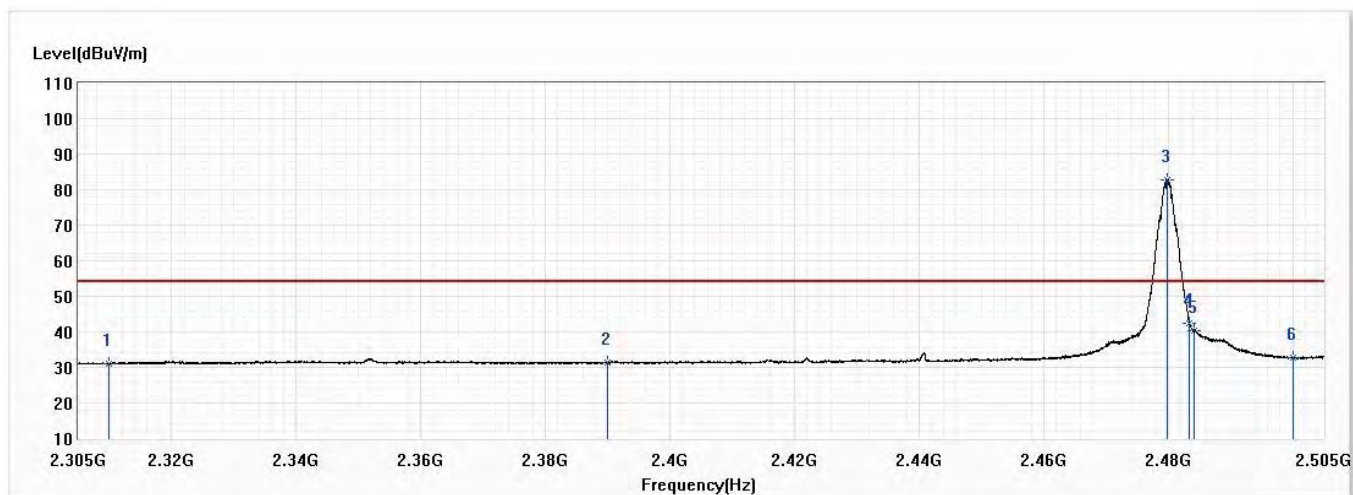


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.51	74.00	-32.49	28.36	13.15	PK
2	2390.000	40.29	74.00	-33.71	26.59	13.70	PK
! 3	2479.525	102.33	74.00	28.33	87.99	14.34	PK
4	2483.500	65.48	74.00	-8.52	51.12	14.36	PK
5	2486.625	63.15	74.00	-10.85	48.76	14.39	PK
6	2500.000	52.44	74.00	-21.56	37.96	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW2M	Humidity (%RH)	56.1

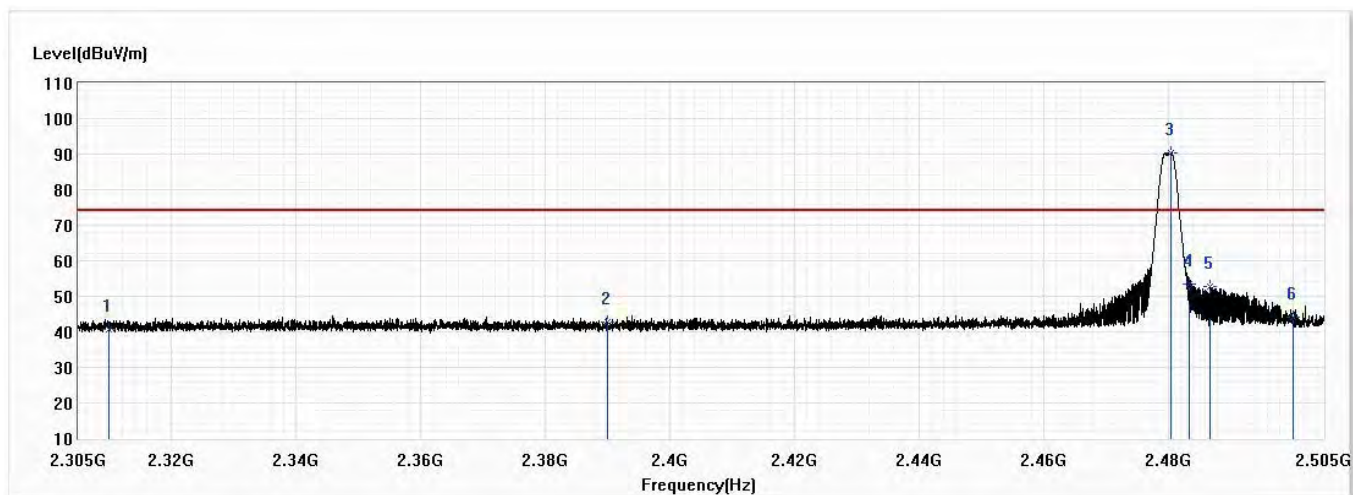


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.10	54.00	-22.90	17.95	13.15	AV
2	2390.000	31.46	54.00	-22.54	17.76	13.70	AV
! 3	2479.875	82.81	54.00	28.81	68.47	14.34	AV
4	2483.500	42.47	54.00	-11.53	28.11	14.36	AV
5	2484.175	40.38	54.00	-13.62	26.02	14.36	AV
6	2500.000	32.73	54.00	-21.27	18.25	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW2M	Humidity (%RH)	56.1

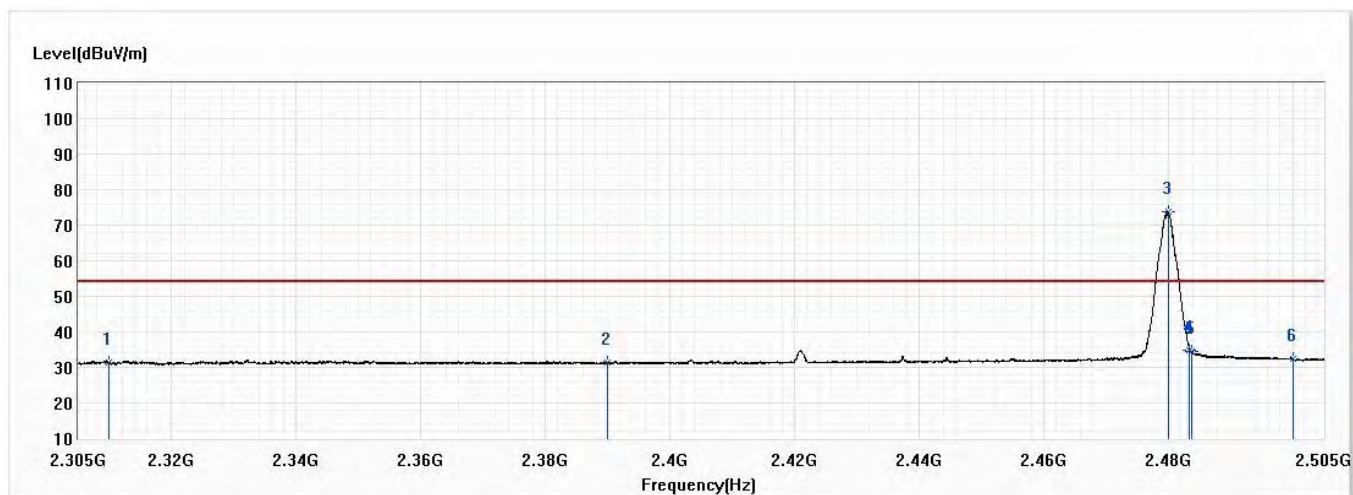


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	40.72	74.00	-33.28	27.57	13.15	PK
2	2390.000	42.84	74.00	-31.16	29.14	13.70	PK
! 3	2480.525	90.22	74.00	16.22	75.88	14.34	PK
4	2483.500	53.28	74.00	-20.72	38.92	14.36	PK
5	2486.750	52.59	74.00	-21.41	38.20	14.39	PK
6	2500.000	44.06	74.00	-29.94	29.58	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/1/11
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW2M	Humidity (%RH)	56.1



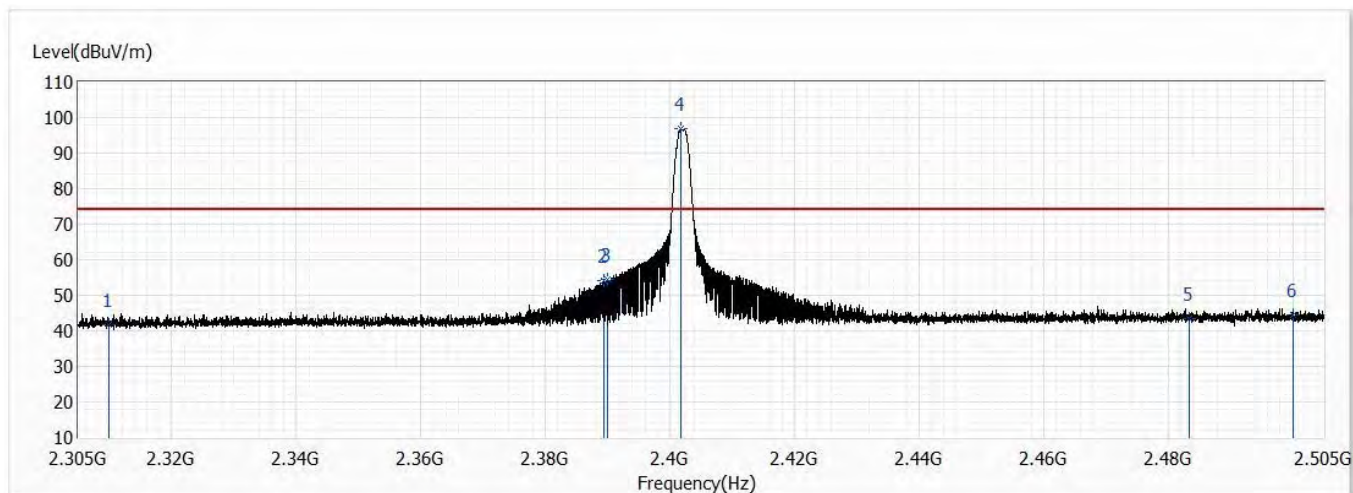
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.33	54.00	-22.67	18.18	13.15	AV
2	2390.000	31.33	54.00	-22.67	17.63	13.70	AV
! 3	2480.000	73.75	54.00	19.75	59.41	14.34	AV
4	2483.500	35.00	54.00	-19.00	20.64	14.36	AV
5	2483.775	34.57	54.00	-19.43	20.21	14.36	AV
6	2500.000	32.25	54.00	-21.75	17.77	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.

(External Antenna)_BT5.0_1M

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	56.1

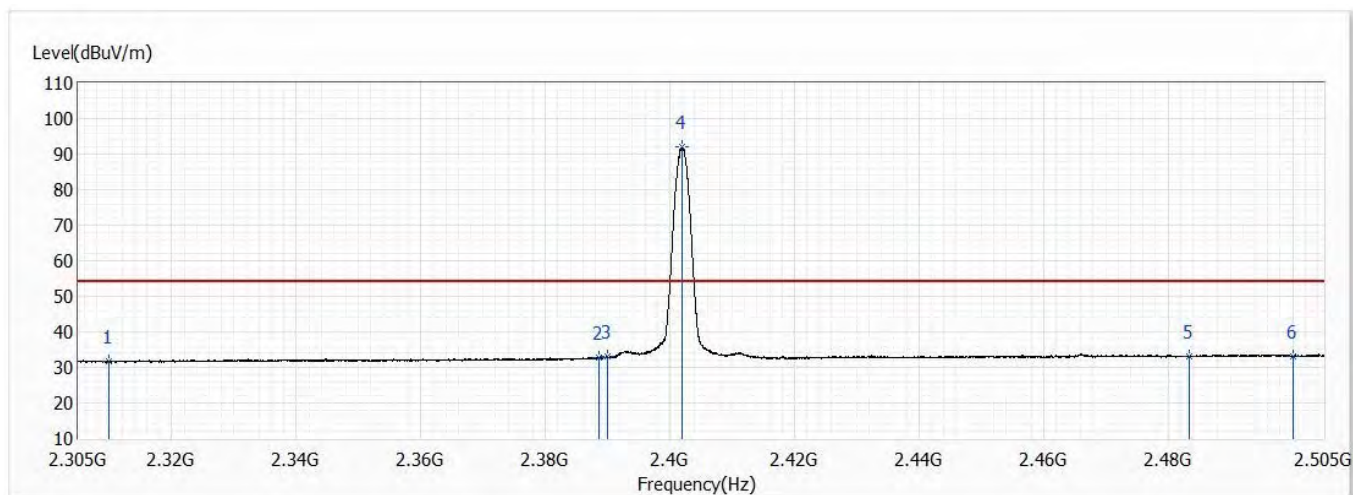


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.64	74.00	-32.36	28.49	13.15	PK
2	2389.375	54.14	74.00	-19.86	40.44	13.70	PK
3	2390.000	54.41	74.00	-19.59	40.71	13.70	PK
! 4	2401.750	96.73	74.00	22.73	82.94	13.79	PK
5	2483.500	43.51	74.00	-30.49	29.15	14.36	PK
6	2500.000	44.48	74.00	-29.52	30.00	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	56.1

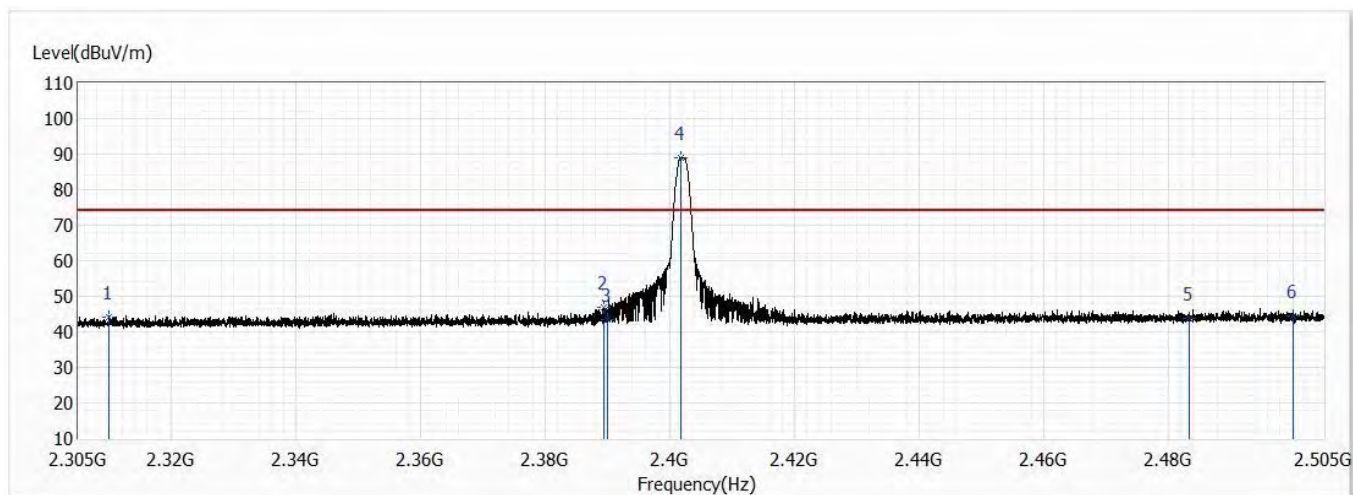


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.59	54.00	-22.41	18.44	13.15	AV
2	2388.575	32.93	54.00	-21.07	19.23	13.70	AV
3	2390.000	33.06	54.00	-20.94	19.36	13.70	AV
! 4	2401.925	91.96	54.00	37.96	78.17	13.79	AV
5	2483.500	33.05	54.00	-20.95	18.69	14.36	AV
6	2500.000	33.18	54.00	-20.82	18.70	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	56.1

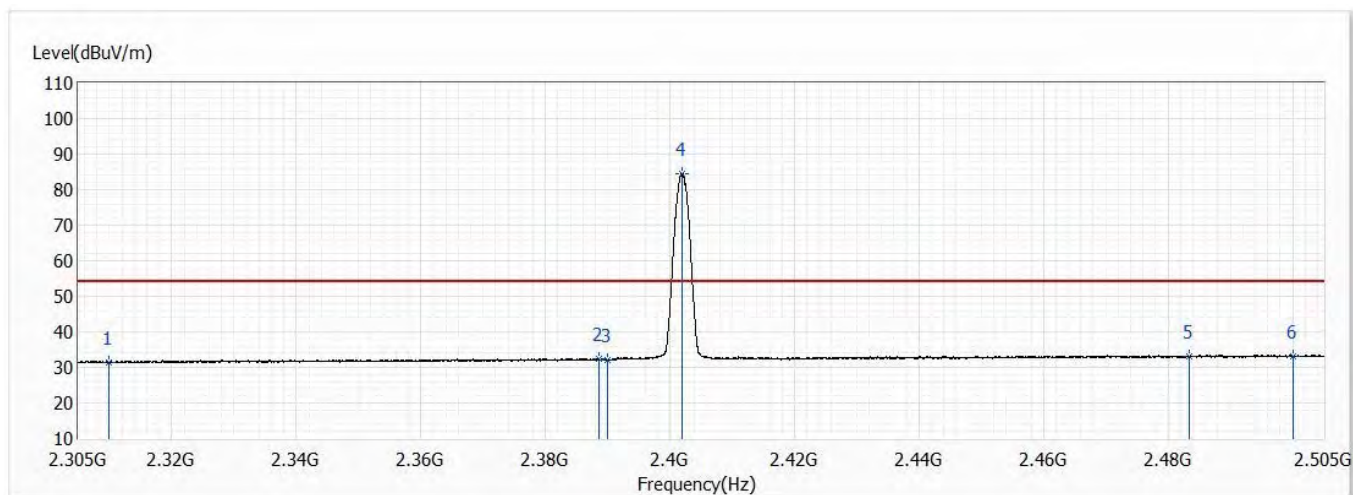


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	44.26	74.00	-29.74	31.09	13.17	PK
2	2389.375	46.75	74.00	-27.25	32.99	13.76	PK
3	2390.000	43.58	74.00	-30.42	29.82	13.76	PK
! 4	2401.750	89.06	74.00	15.06	75.21	13.85	PK
5	2483.500	43.92	74.00	-30.08	29.47	14.45	PK
6	2500.000	44.46	74.00	-29.54	29.88	14.58	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW1M	Humidity (%RH)	56.1

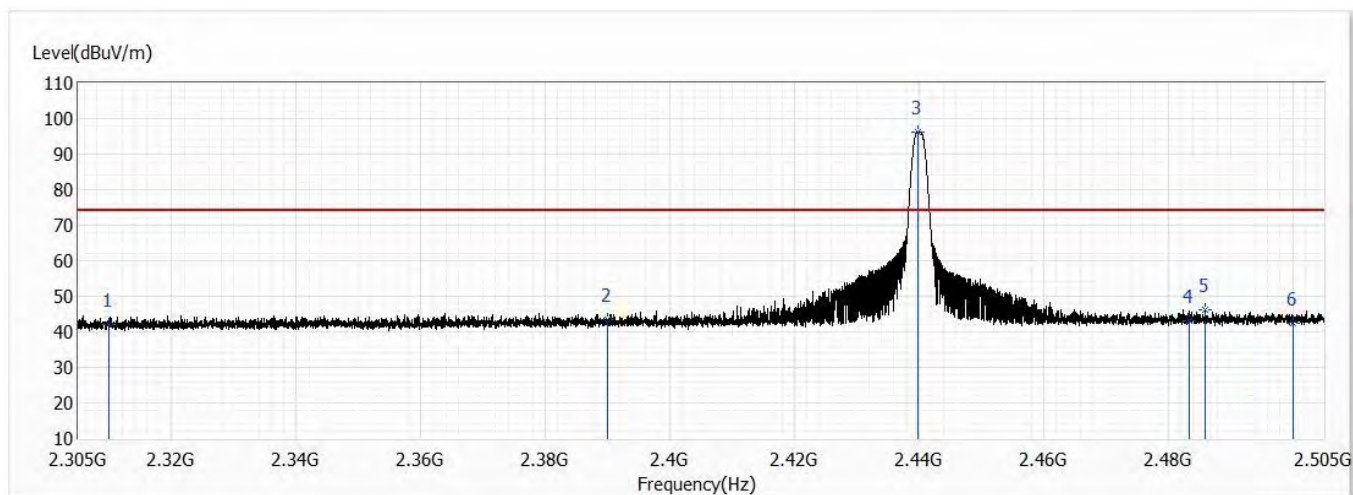


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.50	54.00	-22.50	18.33	13.17	AV
2	2388.600	32.38	54.00	-21.62	18.63	13.75	AV
3	2390.000	32.16	54.00	-21.84	18.40	13.76	AV
! 4	2401.975	84.62	54.00	30.62	70.77	13.85	AV
5	2483.500	33.04	54.00	-20.96	18.59	14.45	AV
6	2500.000	33.15	54.00	-20.85	18.57	14.58	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW1M	Humidity (%RH)	56.1

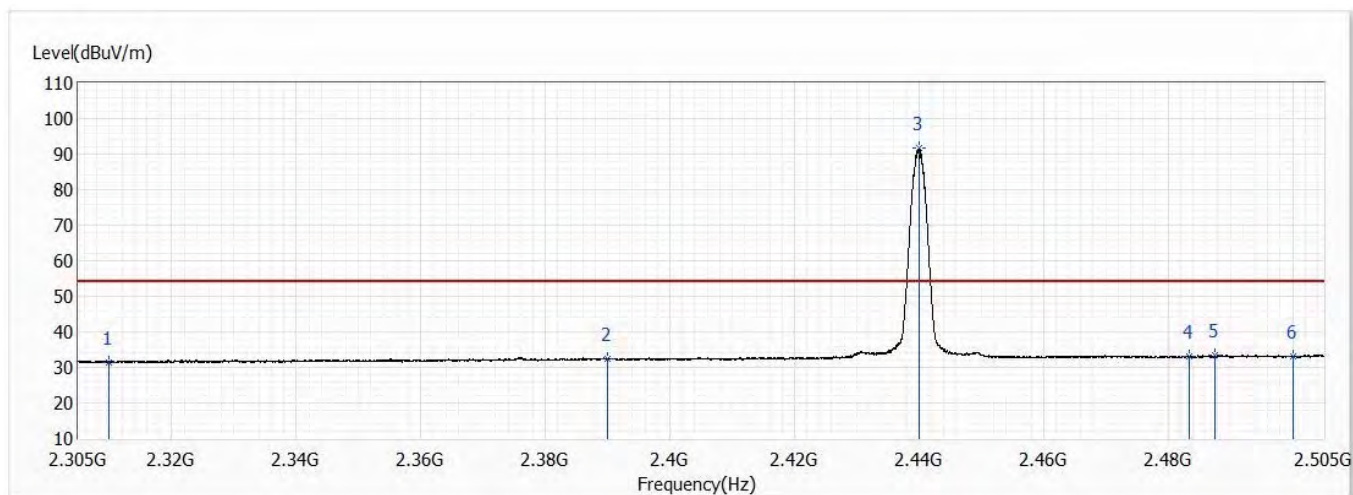


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	42.01	74.00	-31.99	28.86	13.15	PK
2	2390.000	43.56	74.00	-30.44	29.86	13.70	PK
! 3	2439.775	96.37	74.00	22.37	82.32	14.05	PK
4	2483.500	43.04	74.00	-30.96	28.68	14.36	PK
5	2485.925	46.11	74.00	-27.89	31.73	14.38	PK
6	2500.000	42.41	74.00	-31.59	27.93	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW1M	Humidity (%RH)	56.1

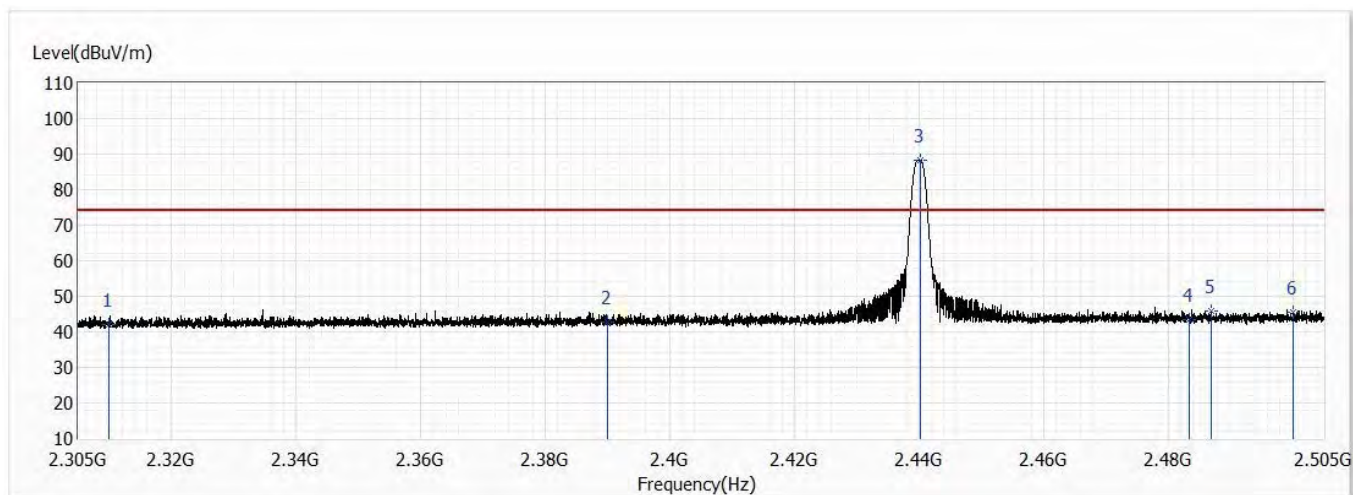


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.50	54.00	-22.50	18.35	13.15	AV
2	2390.000	32.44	54.00	-21.56	18.74	13.70	AV
! 3	2440.000	91.64	54.00	37.64	77.59	14.05	AV
4	2483.500	33.08	54.00	-20.92	18.72	14.36	AV
5	2487.450	33.36	54.00	-20.64	18.97	14.39	AV
6	2500.000	33.20	54.00	-20.80	18.72	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW1M	Humidity (%RH)	56.1

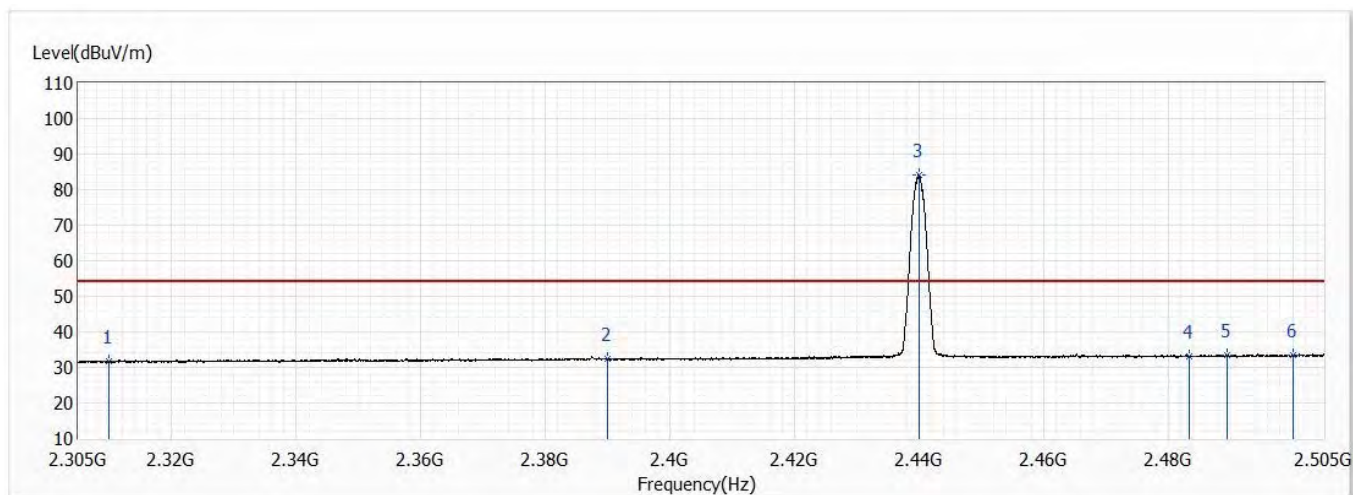


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	42.19	74.00	-31.81	29.02	13.17	PK
2	2390.000	42.65	74.00	-31.35	28.89	13.76	PK
! 3	2440.300	88.24	74.00	14.24	74.11	14.13	PK
4	2483.500	43.54	74.00	-30.46	29.09	14.45	PK
5	2486.925	45.71	74.00	-28.29	31.22	14.49	PK
6	2500.000	45.61	74.00	-28.39	31.03	14.58	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW1M	Humidity (%RH)	56.1

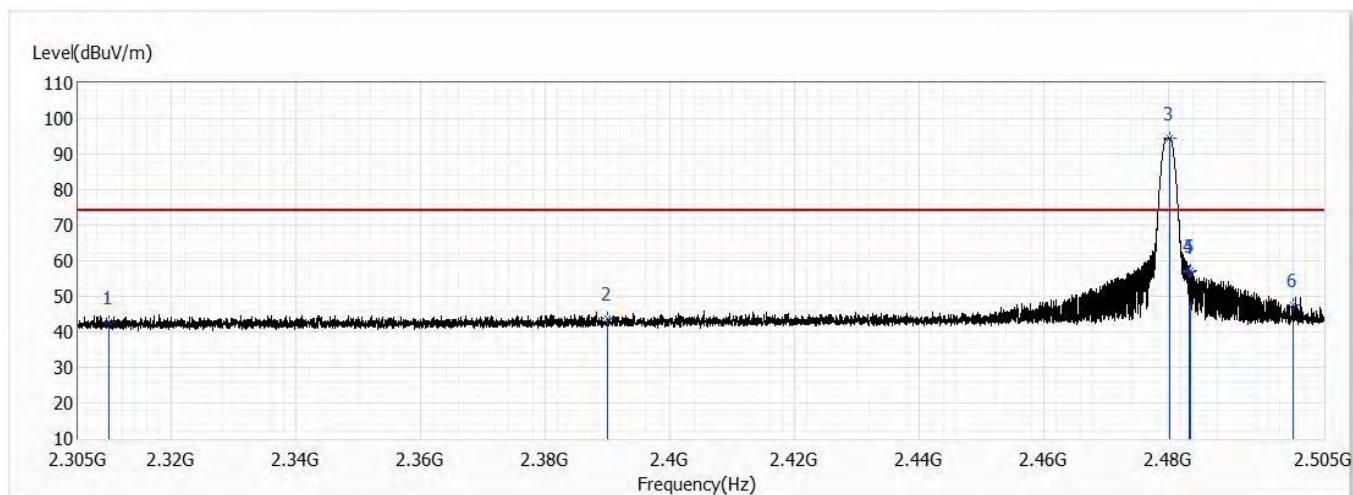


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.66	54.00	-22.34	18.49	13.17	AV
2	2390.000	32.40	54.00	-21.60	18.64	13.76	AV
! 3	2440.025	84.02	54.00	30.02	69.89	14.13	AV
4	2483.500	33.14	54.00	-20.86	18.69	14.45	AV
5	2489.525	33.55	54.00	-20.45	19.05	14.50	AV
6	2500.000	33.35	54.00	-20.65	18.77	14.58	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW1M	Humidity (%RH)	56.1

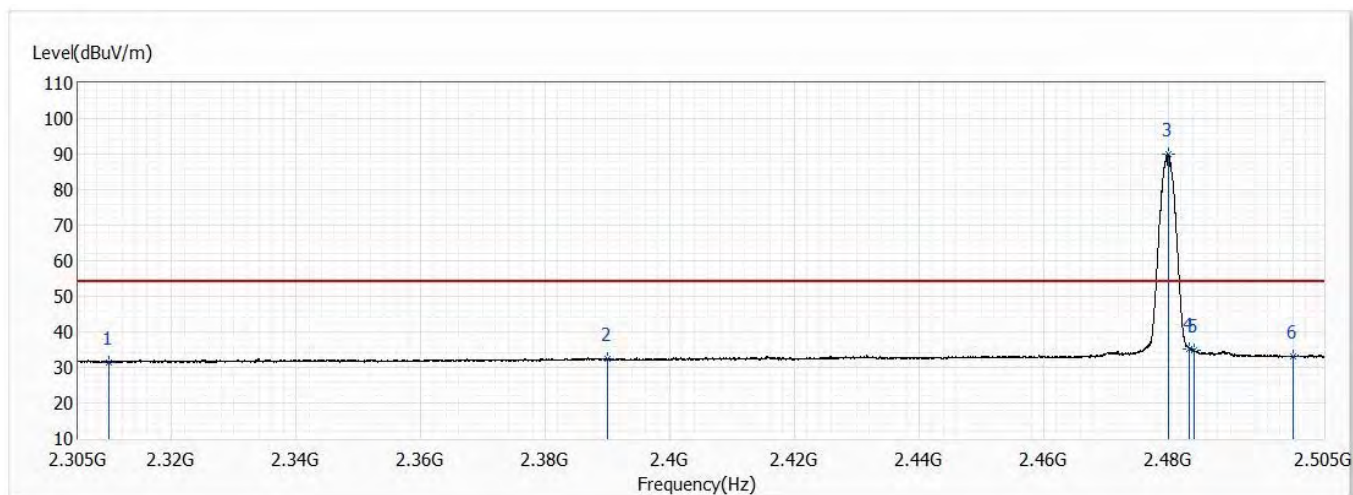


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	42.79	74.00	-31.21	29.64	13.15	PK
2	2390.000	43.71	74.00	-30.29	30.01	13.70	PK
! 3	2480.275	94.56	74.00	20.56	80.22	14.34	PK
4	2483.500	56.77	74.00	-17.23	42.41	14.36	PK
5	2483.675	57.36	74.00	-16.64	43.00	14.36	PK
6	2500.000	47.58	74.00	-26.42	33.10	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW1M	Humidity (%RH)	56.1

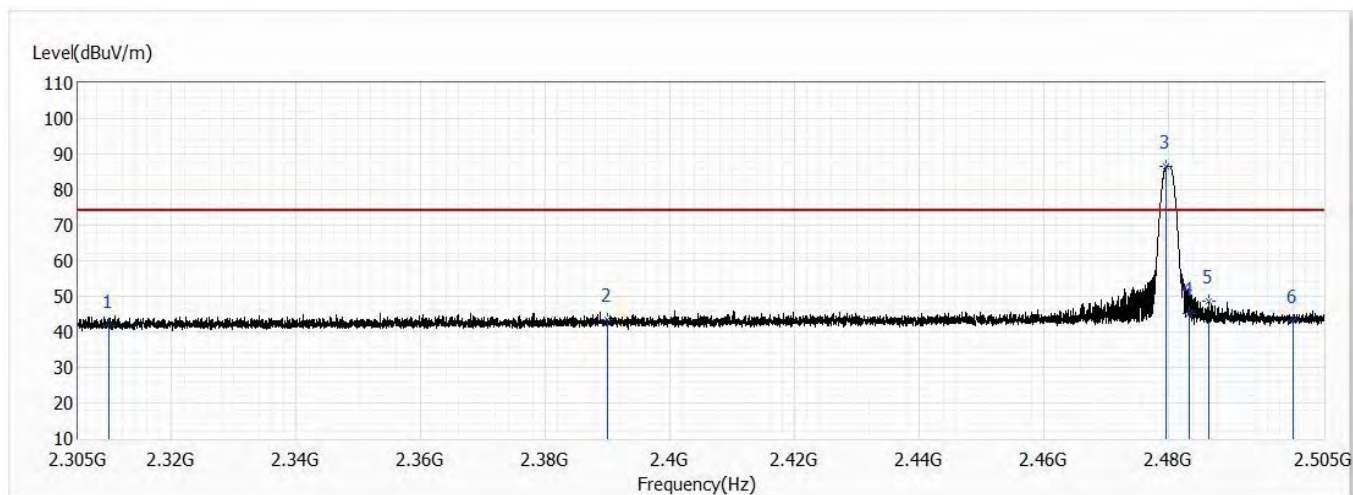


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.51	54.00	-22.49	18.36	13.15	AV
2	2390.000	32.25	54.00	-21.75	18.55	13.70	AV
! 3	2480.000	90.06	54.00	36.06	75.72	14.34	AV
4	2483.500	35.05	54.00	-18.95	20.69	14.36	AV
5	2484.150	34.68	54.00	-19.32	20.32	14.36	AV
6	2500.000	33.14	54.00	-20.86	18.66	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW1M	Humidity (%RH)	56.1

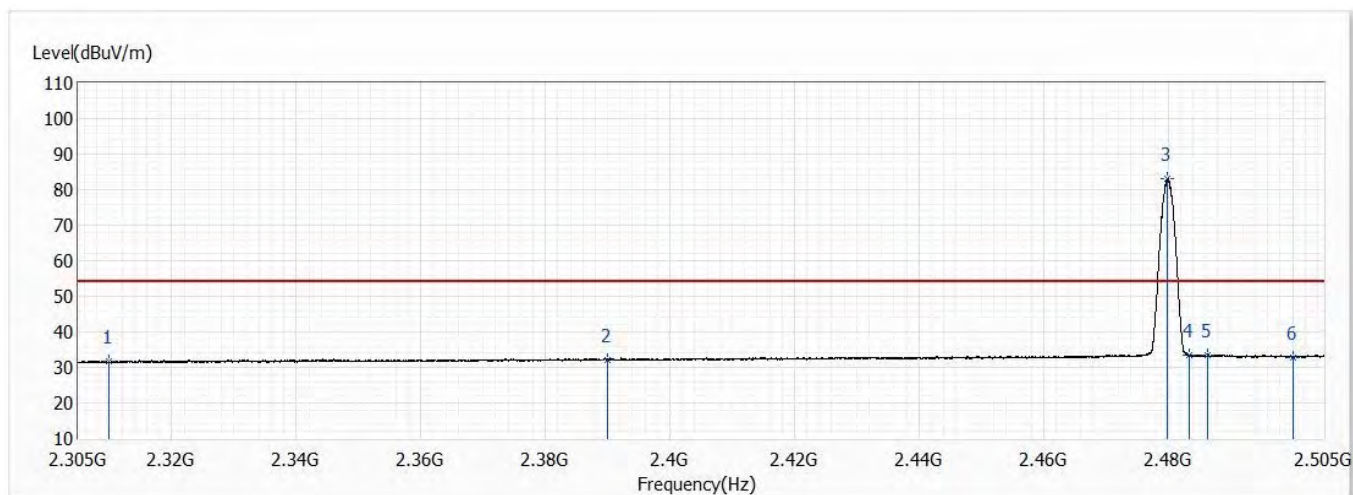


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.57	74.00	-32.43	28.40	13.17	PK
2	2390.000	43.57	74.00	-30.43	29.81	13.76	PK
! 3	2479.750	86.72	74.00	12.72	72.29	14.43	PK
4	2483.500	45.07	74.00	-28.93	30.62	14.45	PK
5	2486.500	48.76	74.00	-25.24	34.27	14.49	PK
6	2500.000	43.07	74.00	-30.93	28.49	14.58	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW1M	Humidity (%RH)	56.1



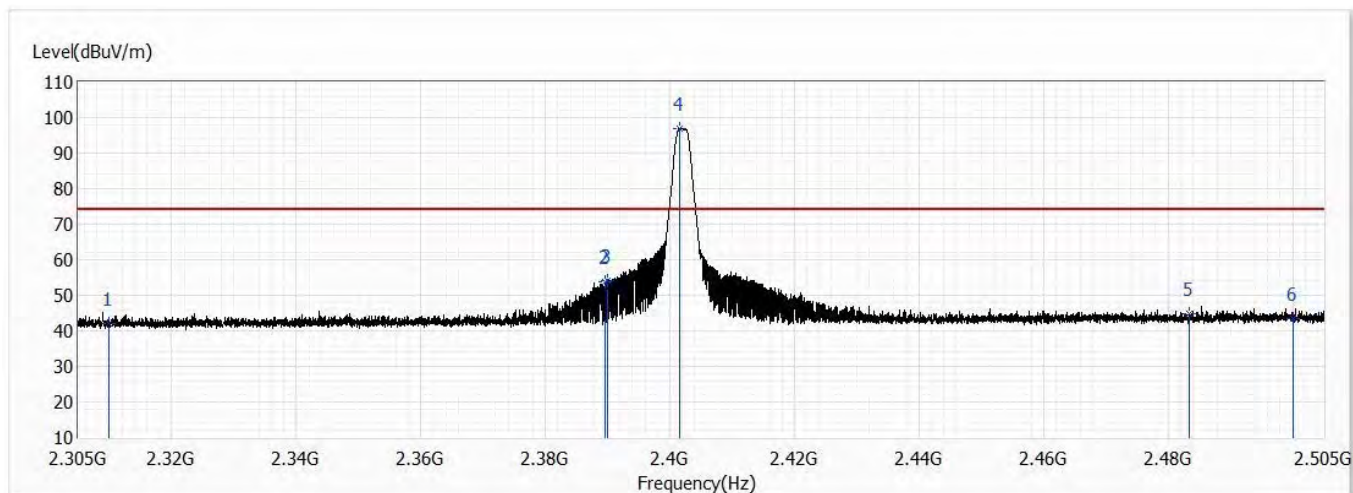
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.57	54.00	-22.43	18.42	13.15	AV
2	2390.000	32.18	54.00	-21.82	18.48	13.70	AV
! 3	2479.950	82.99	54.00	28.99	68.65	14.34	AV
4	2483.500	33.43	54.00	-20.57	19.07	14.36	AV
5	2486.425	33.61	54.00	-20.39	19.22	14.39	AV
6	2500.000	32.89	54.00	-21.11	18.41	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.

(External Antenna)_BT5.0_2M

Model No	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	56.1

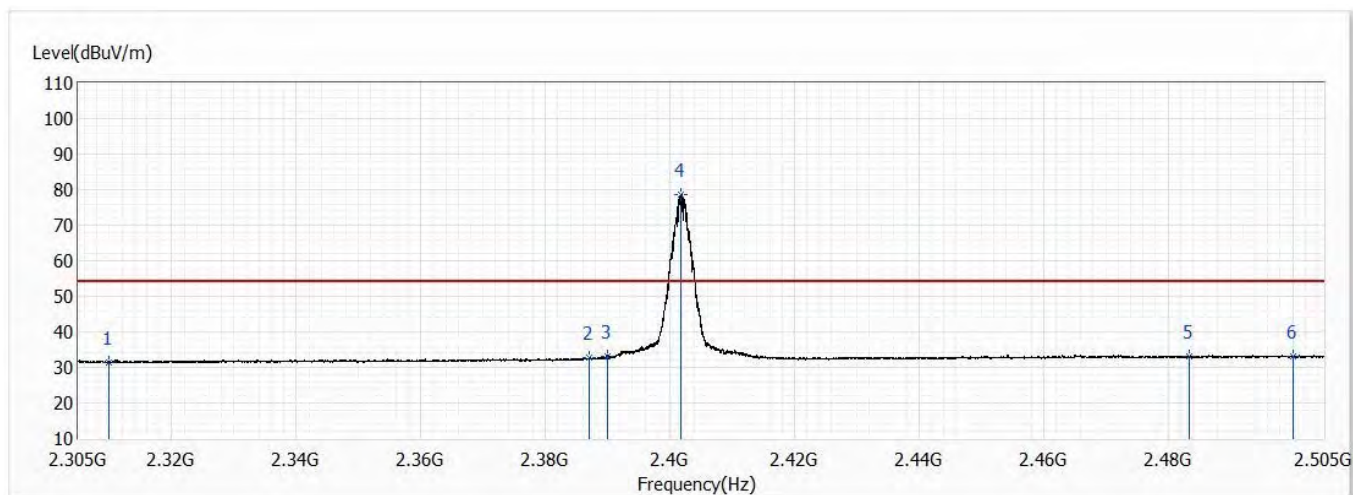


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	42.14	74.00	-31.86	28.99	13.15	PK
2	2389.575	53.88	74.00	-20.12	40.18	13.70	PK
3	2390.000	54.16	74.00	-19.84	40.46	13.70	PK
! 4	2401.525	96.96	74.00	22.96	83.17	13.79	PK
5	2483.500	44.77	74.00	-29.23	30.41	14.36	PK
6	2500.000	43.55	74.00	-30.45	29.07	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	56.1

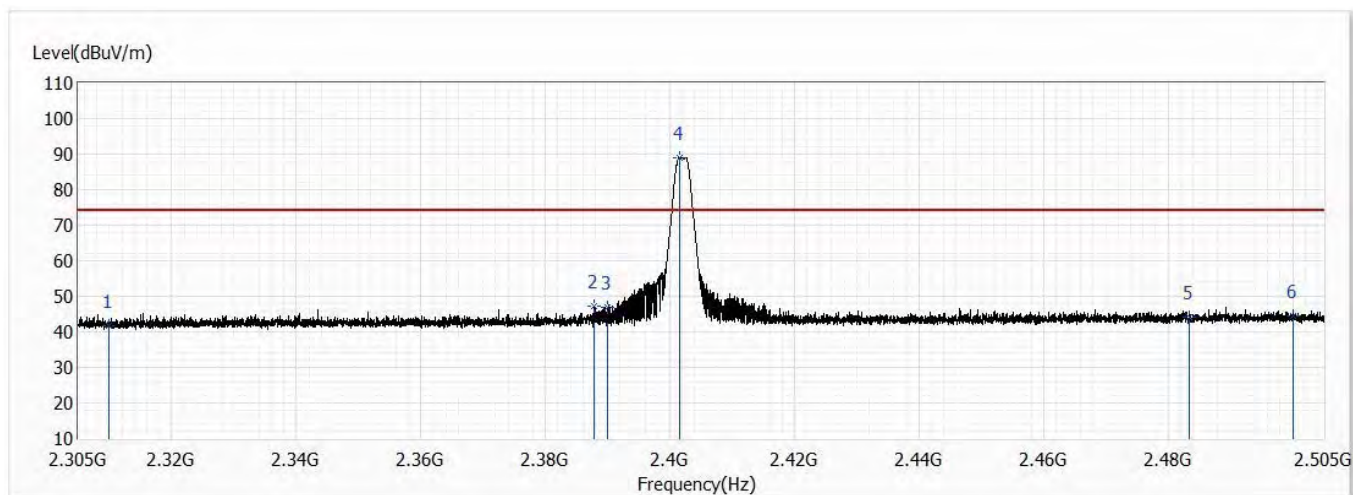


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.43	54.00	-22.57	18.28	13.15	AV
2	2387.125	32.85	54.00	-21.15	19.16	13.69	AV
3	2390.000	32.97	54.00	-21.03	19.27	13.70	AV
! 4	2401.775	78.75	54.00	24.75	64.96	13.79	AV
5	2483.500	33.08	54.00	-20.92	18.72	14.36	AV
6	2500.000	33.13	54.00	-20.87	18.65	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	56.1

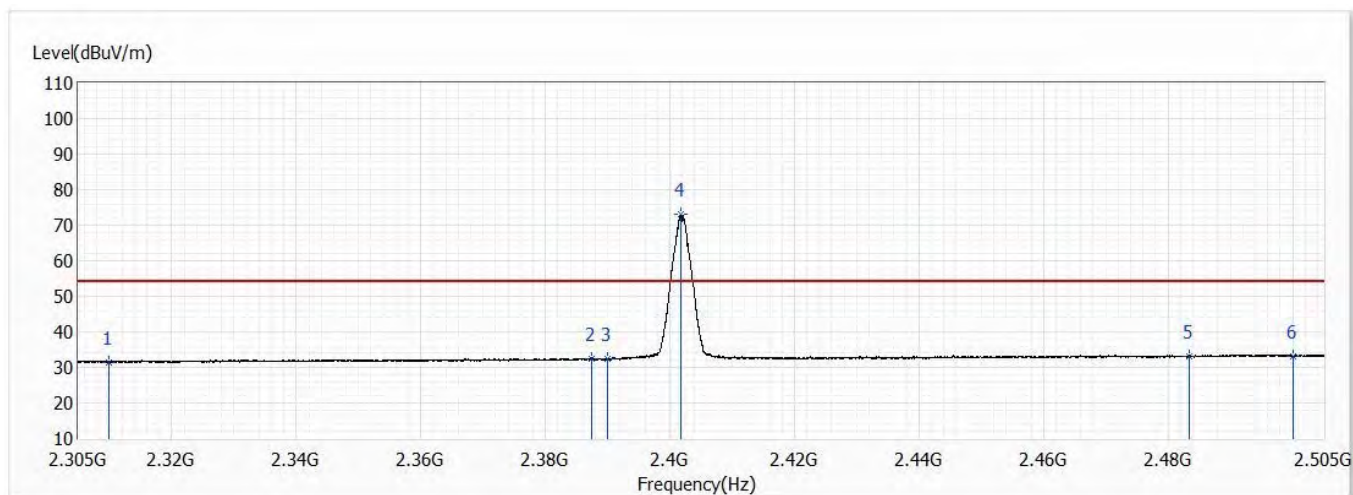


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.86	74.00	-32.14	28.69	13.17	PK
2	2387.750	47.20	74.00	-26.80	33.45	13.75	PK
3	2390.000	47.02	74.00	-26.98	33.26	13.76	PK
! 4	2401.525	89.13	74.00	15.13	75.28	13.85	PK
5	2483.500	44.17	74.00	-29.83	29.72	14.45	PK
6	2500.000	44.64	74.00	-29.36	30.06	14.58	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 0,2.402G,BW2M	Humidity (%RH)	56.1

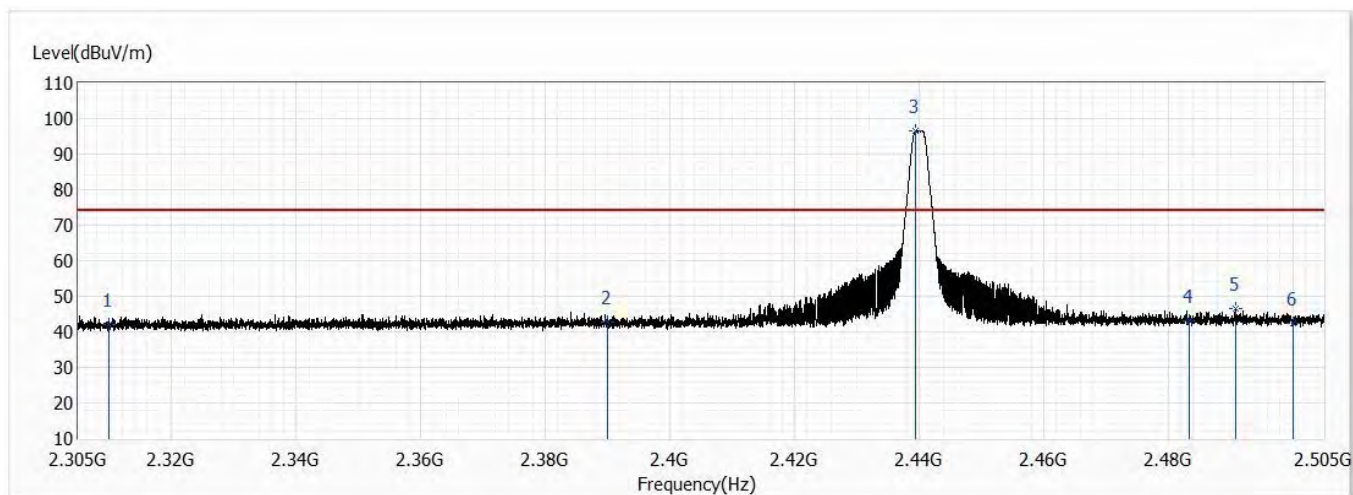


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.49	54.00	-22.51	18.32	13.17	AV
2	2387.375	32.57	54.00	-21.43	18.82	13.75	AV
3	2390.000	32.33	54.00	-21.67	18.57	13.76	AV
! 4	2401.825	72.99	54.00	18.99	59.14	13.85	AV
5	2483.500	33.15	54.00	-20.85	18.70	14.45	AV
6	2500.000	33.17	54.00	-20.83	18.59	14.58	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	56.1

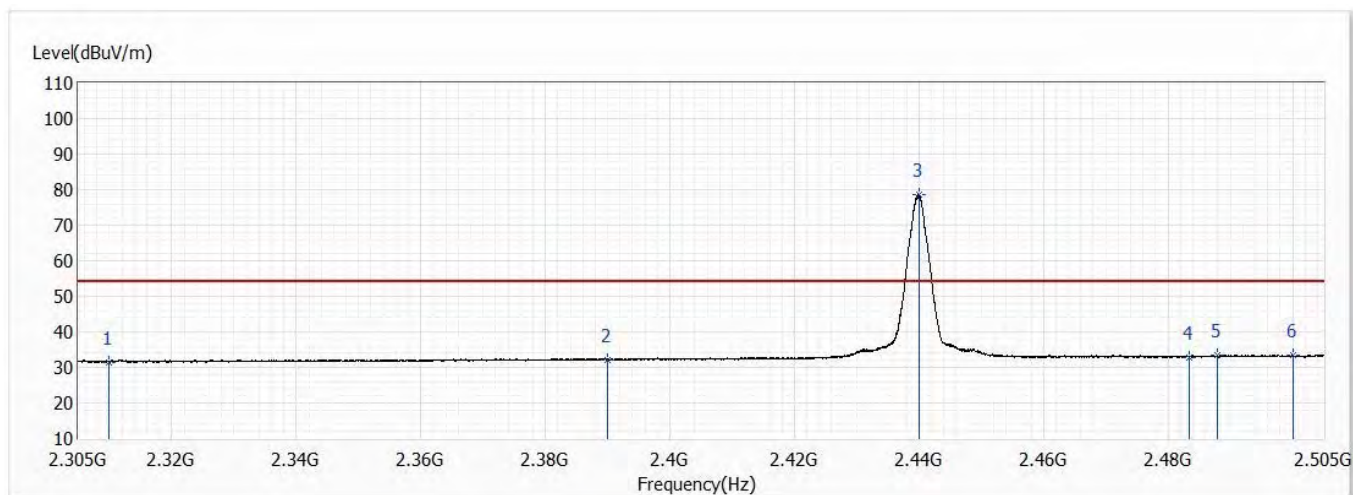


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	42.11	74.00	-31.89	28.96	13.15	PK
2	2390.000	42.67	74.00	-31.33	28.97	13.70	PK
! 3	2439.525	96.69	74.00	22.69	82.64	14.05	PK
4	2483.500	43.27	74.00	-30.73	28.91	14.36	PK
5	2490.800	46.63	74.00	-27.37	32.22	14.41	PK
6	2500.000	42.31	74.00	-31.69	27.83	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	56.1

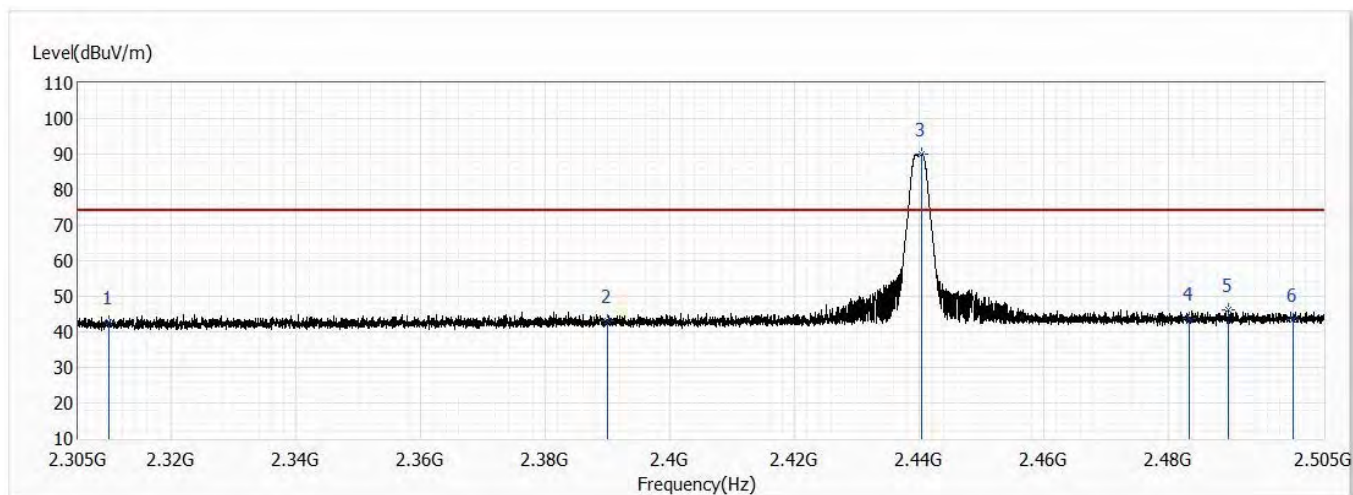


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.53	54.00	-22.47	18.38	13.15	AV
2	2390.000	32.22	54.00	-21.78	18.52	13.70	AV
! 3	2439.975	78.70	54.00	24.70	64.65	14.05	AV
4	2483.500	32.93	54.00	-21.07	18.57	14.36	AV
5	2487.950	33.34	54.00	-20.66	18.94	14.40	AV
6	2500.000	33.29	54.00	-20.71	18.81	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	56.1

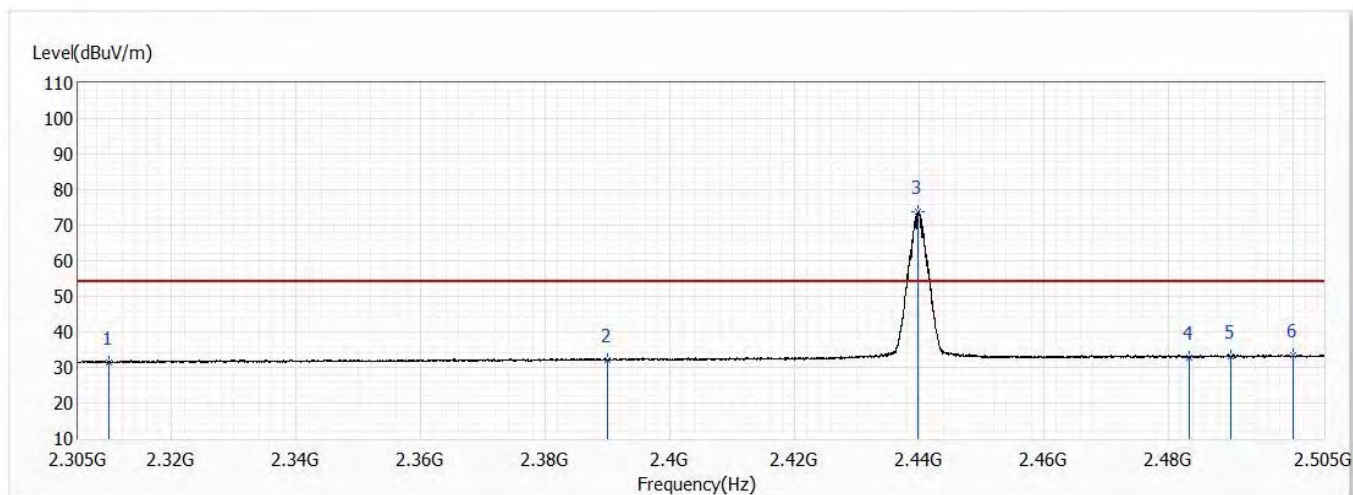


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	42.63	74.00	-31.37	29.46	13.17	PK
2	2390.000	42.96	74.00	-31.04	29.20	13.76	PK
! 3	2440.500	89.98	74.00	15.98	75.85	14.13	PK
4	2483.500	43.73	74.00	-30.27	29.28	14.45	PK
5	2489.650	46.24	74.00	-27.76	31.74	14.50	PK
6	2500.000	43.34	74.00	-30.66	28.76	14.58	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 19,2.44G,BW2M	Humidity (%RH)	56.1

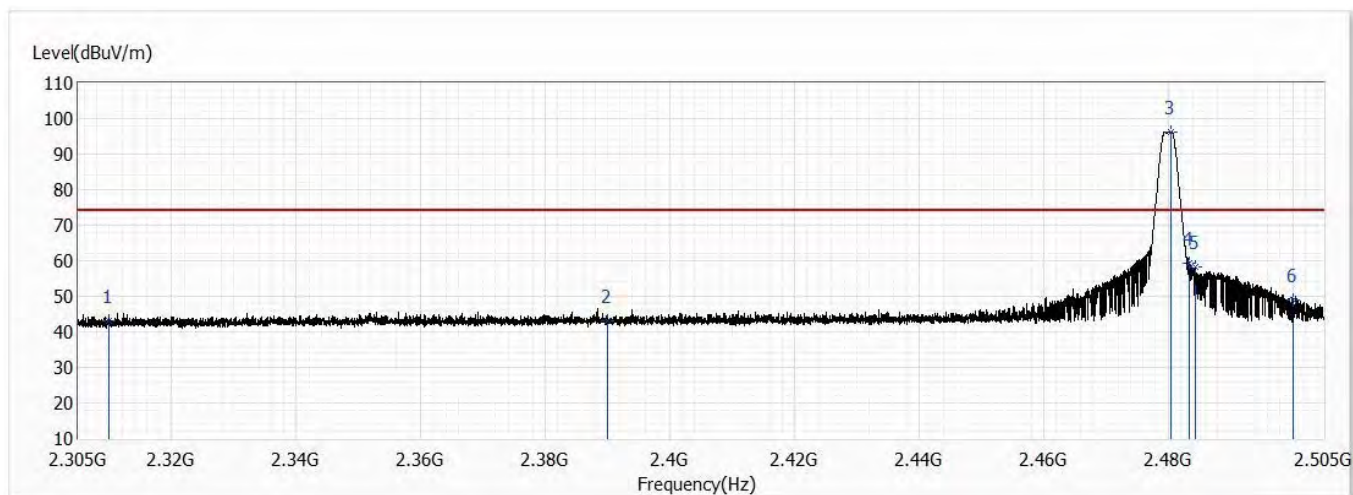


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.42	54.00	-22.58	18.25	13.17	AV
2	2390.000	32.06	54.00	-21.94	18.30	13.76	AV
! 3	2439.875	73.82	54.00	19.82	59.69	14.13	AV
4	2483.500	32.84	54.00	-21.16	18.39	14.45	AV
5	2490.075	33.18	54.00	-20.82	18.68	14.50	AV
6	2500.000	33.29	54.00	-20.71	18.71	14.58	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW2M	Humidity (%RH)	56.1

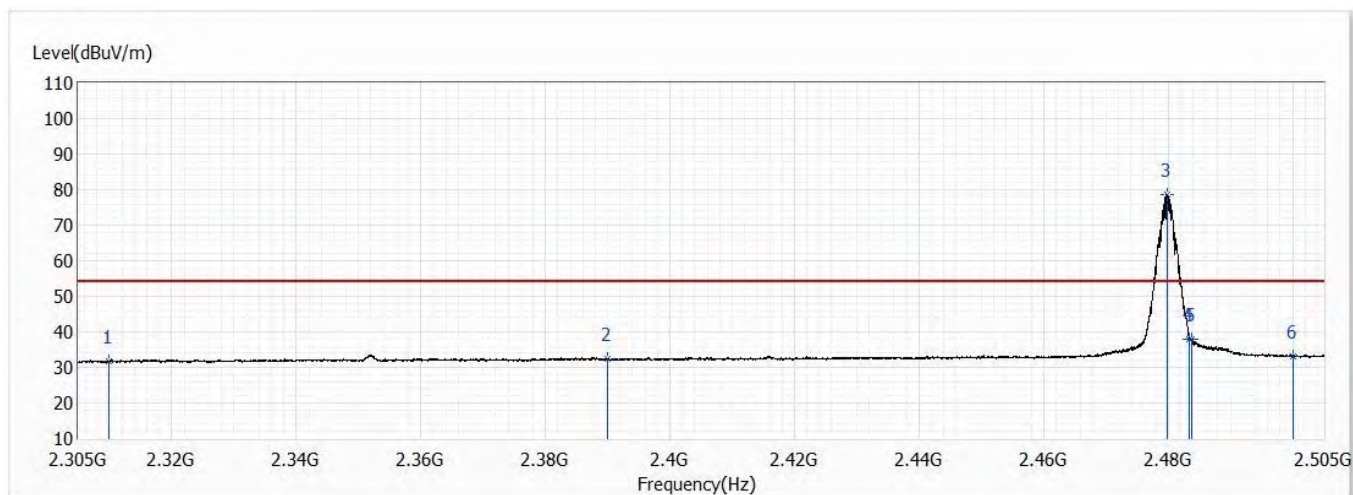


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	43.14	74.00	-30.86	29.99	13.15	PK
2	2390.000	43.14	74.00	-30.86	29.44	13.70	PK
! 3	2480.525	96.35	74.00	22.35	82.01	14.34	PK
4	2483.500	59.29	74.00	-14.71	44.93	14.36	PK
5	2484.300	58.29	74.00	-15.71	43.93	14.36	PK
6	2500.000	49.03	74.00	-24.97	34.55	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Horizontal	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW2M	Humidity (%RH)	56.1

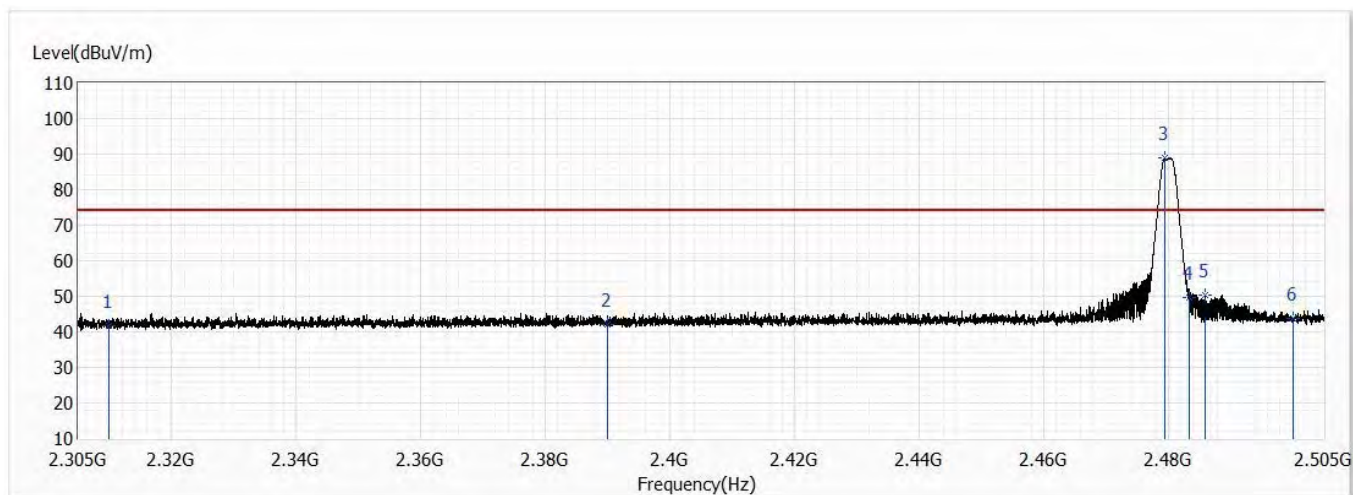


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.76	54.00	-22.24	18.61	13.15	AV
2	2390.000	32.31	54.00	-21.69	18.61	13.70	AV
! 3	2479.875	78.62	54.00	24.62	64.28	14.34	AV
4	2483.500	37.79	54.00	-16.21	23.43	14.36	AV
5	2483.825	37.90	54.00	-16.10	23.54	14.36	AV
6	2500.000	33.21	54.00	-20.79	18.73	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW2M	Humidity (%RH)	56.1

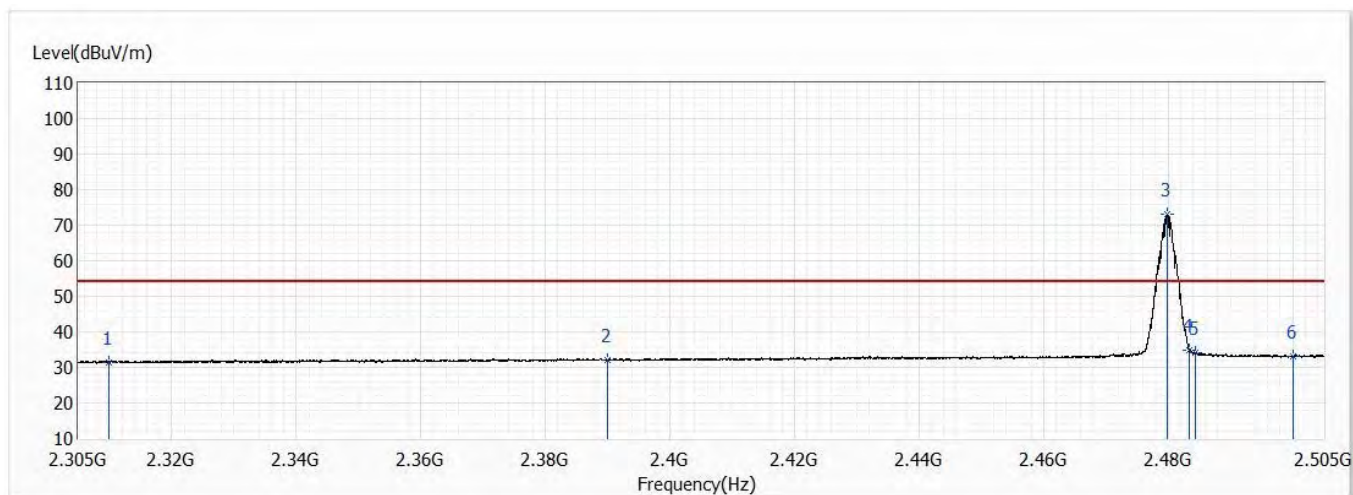


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.58	74.00	-32.42	28.43	13.15	PK
2	2390.000	42.07	74.00	-31.93	28.37	13.70	PK
! 3	2479.500	88.85	74.00	14.85	74.51	14.34	PK
4	2483.500	49.70	74.00	-24.30	35.34	14.36	PK
5	2486.025	50.43	74.00	-23.57	36.05	14.38	PK
6	2500.000	43.89	74.00	-30.11	29.41	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	HCM500	Site	CB2-H
Test Voltage	DC 48V	Test Date	2021/5/5
Test Mode	Mode 1: Transmit	Engineer	Rueyyan Lin
Polarity	Vertical	Temperature (°C)	22.6
Test Condition	BT 5.0,Ant0,Ch 39,2.48G,BW2M	Humidity (%RH)	56.1



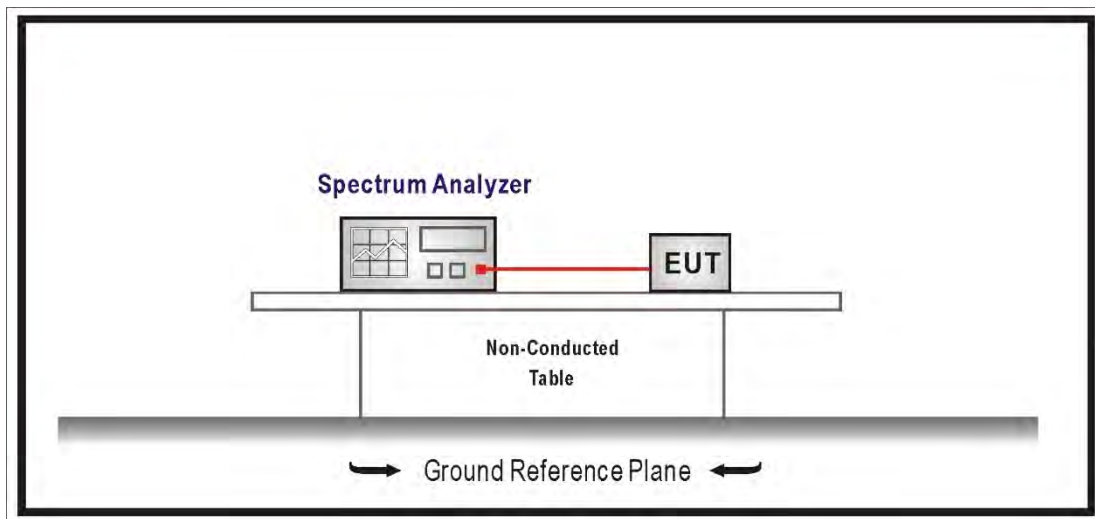
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.47	54.00	-22.53	18.30	13.17	AV
2	2390.000	32.21	54.00	-21.79	18.45	13.76	AV
! 3	2479.875	73.09	54.00	19.09	58.66	14.43	AV
4	2483.500	34.71	54.00	-19.29	20.26	14.45	AV
5	2484.475	34.16	54.00	-19.84	19.70	14.46	AV
6	2500.000	33.07	54.00	-20.93	18.49	14.58	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. 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 KDB 558074 D01V05r02 for compliance to FCC 47CFR 15.247 requirements.

7.4. Test Specification

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

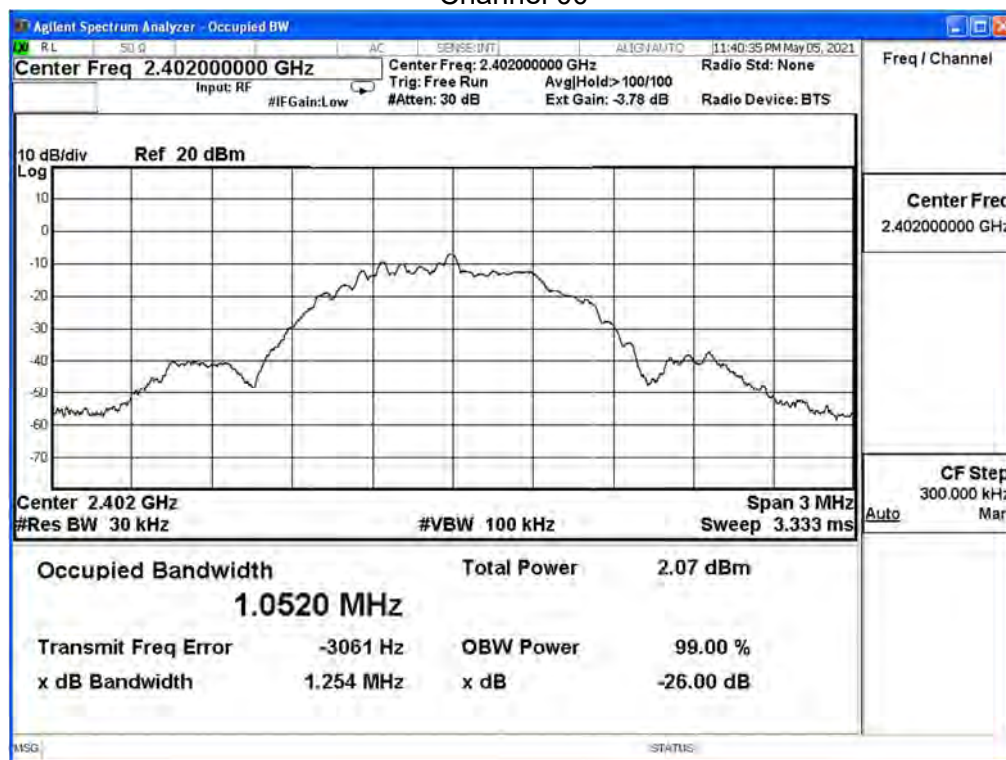
7.5. Test Result

Product	Connectivity Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2021/05/05	Test Site	SR12-H
Temperature(°C)	23.0	Humidity (%RH)	68.0

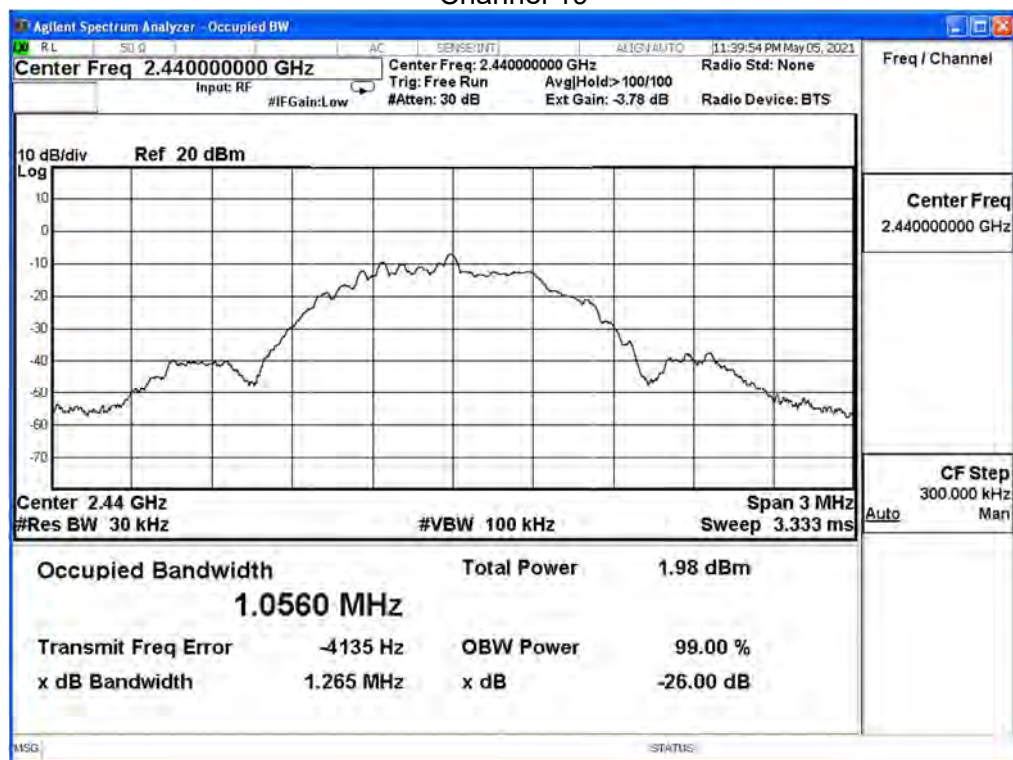
(Internal Antenna)_BT5.0_1M

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
00	2402	1.052	--
19	2440	1.056	--
39	2480	1.058	--

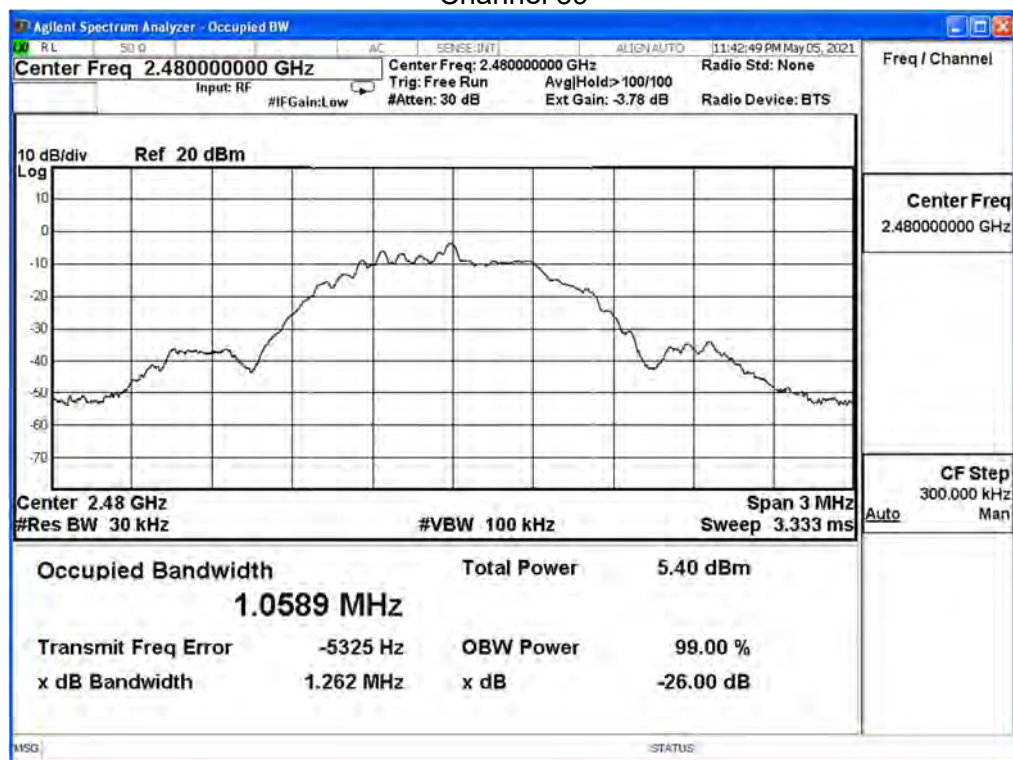
Channel 00



Channel 19



Channel 39

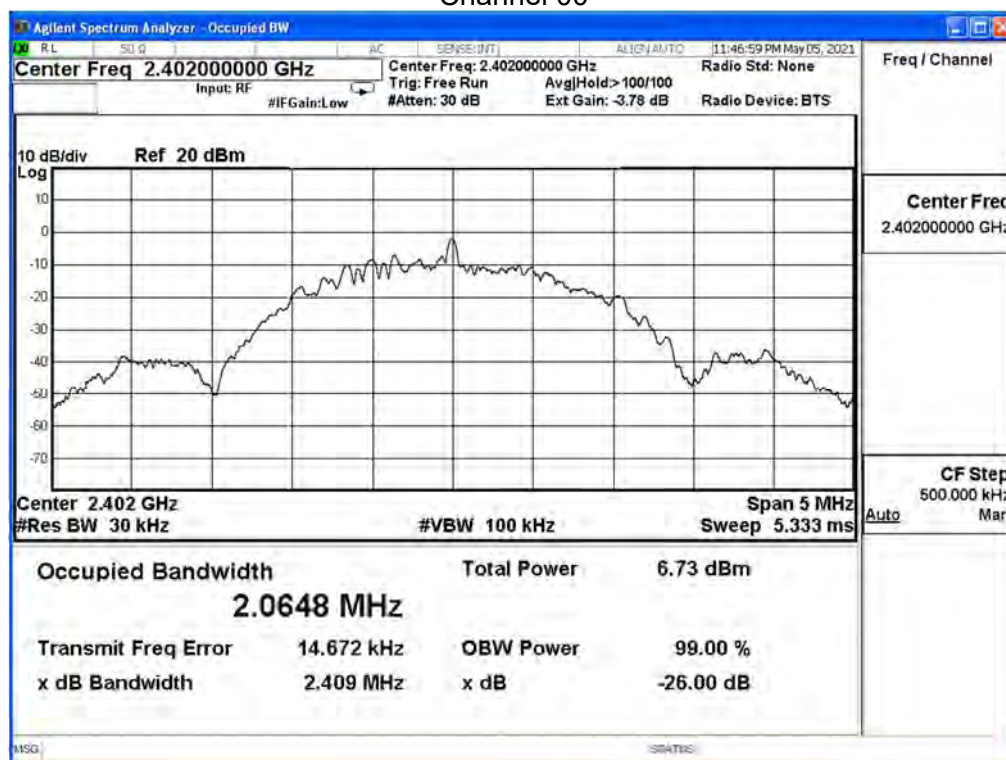


Product	Connectivity Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2021/05/05	Test Site	SR12-H
Temperature(°C)	23.0	Humidity (%RH)	68.0

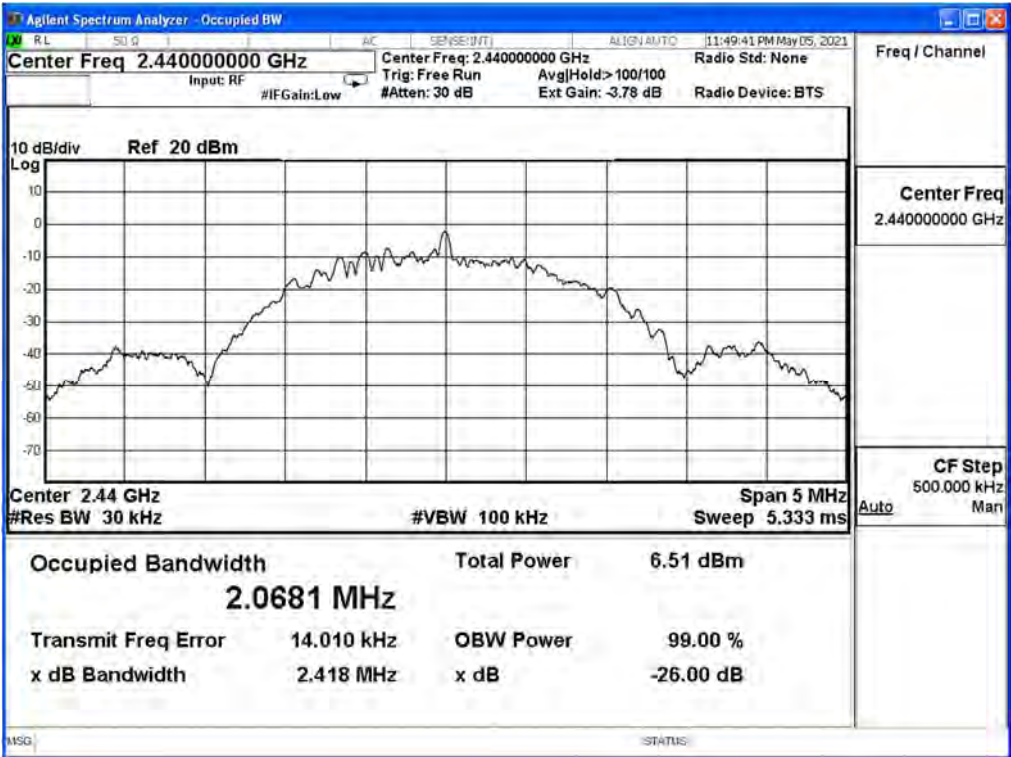
(Internal Antenna)_BT5.0_2M

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
00	2402	2.064	--
19	2440	2.068	--
39	2480	2.076	--

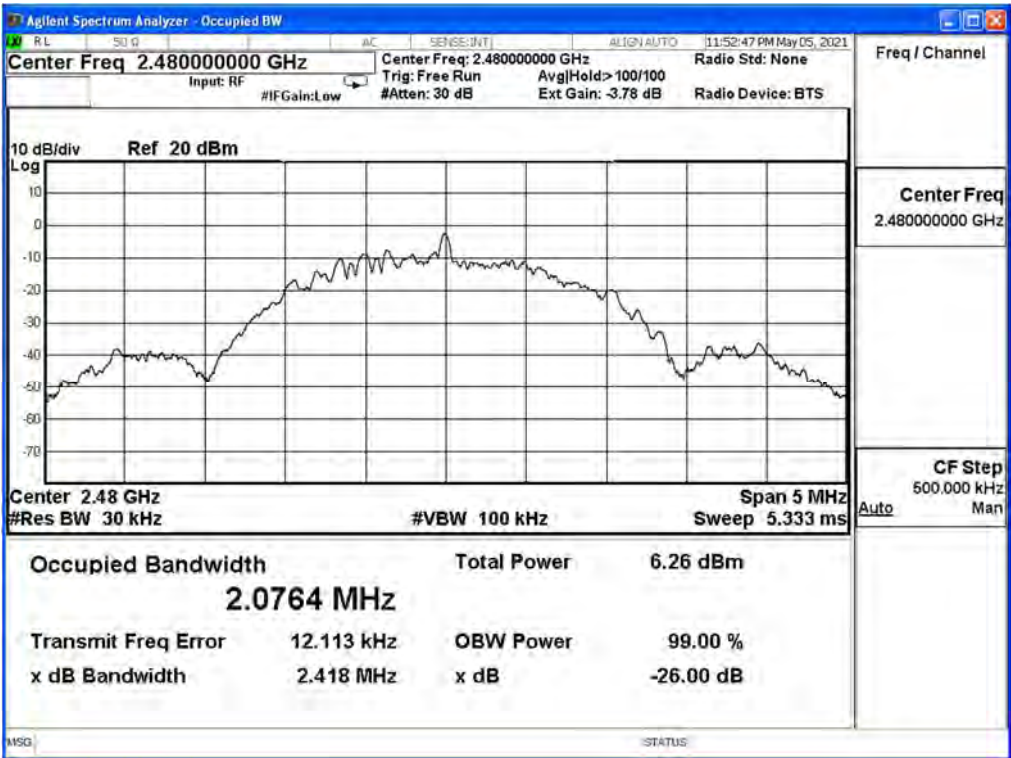
Channel 00



Channel 19



Channel 39

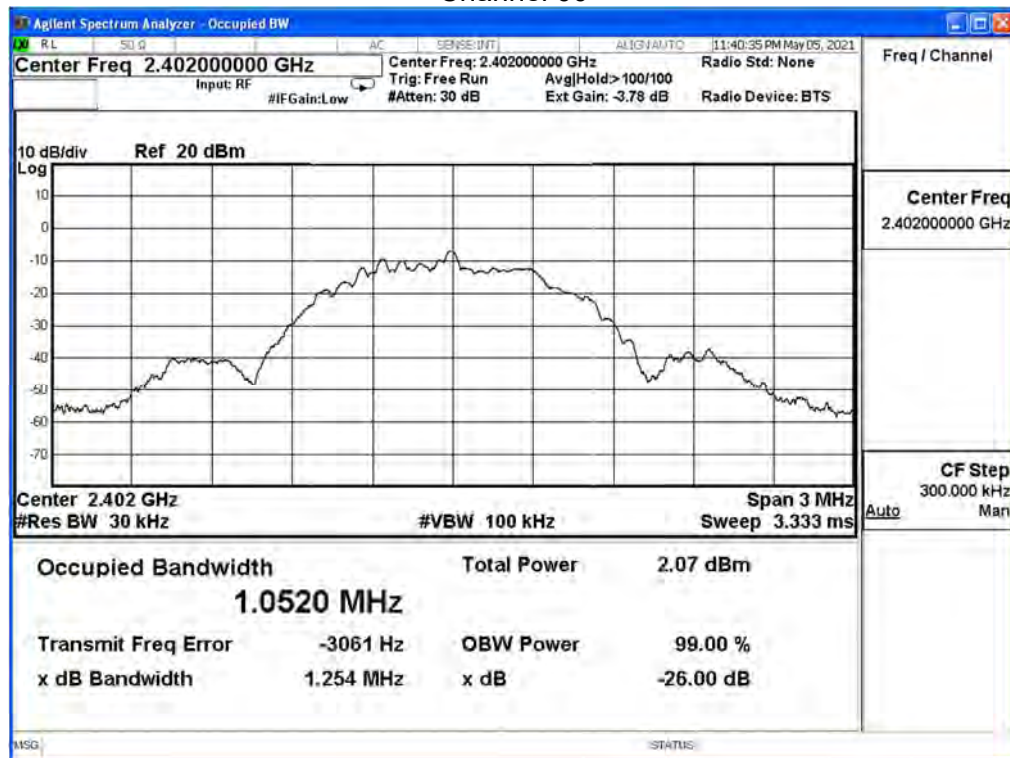


Product	Connectivity Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2021/05/05	Test Site	SR12-H
Temperature(°C)	23.0	Humidity (%RH)	68.0

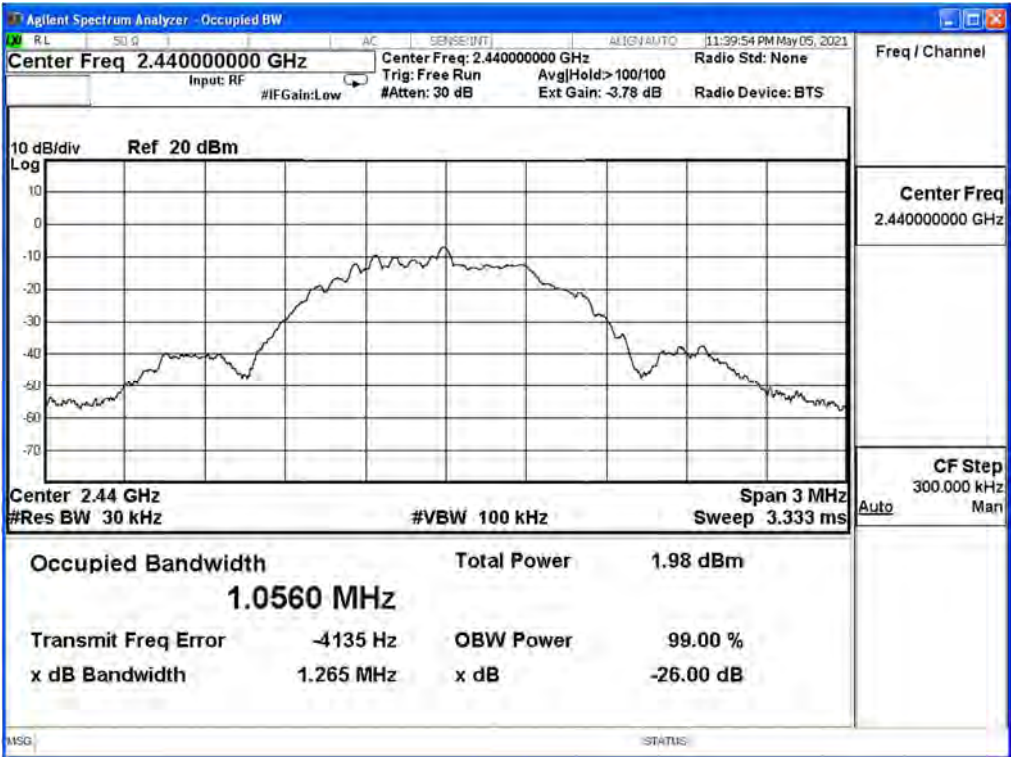
(External Antenna)_BT5.0_1M

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
00	2402	1.052	--
19	2440	1.056	--
39	2480	1.058	--

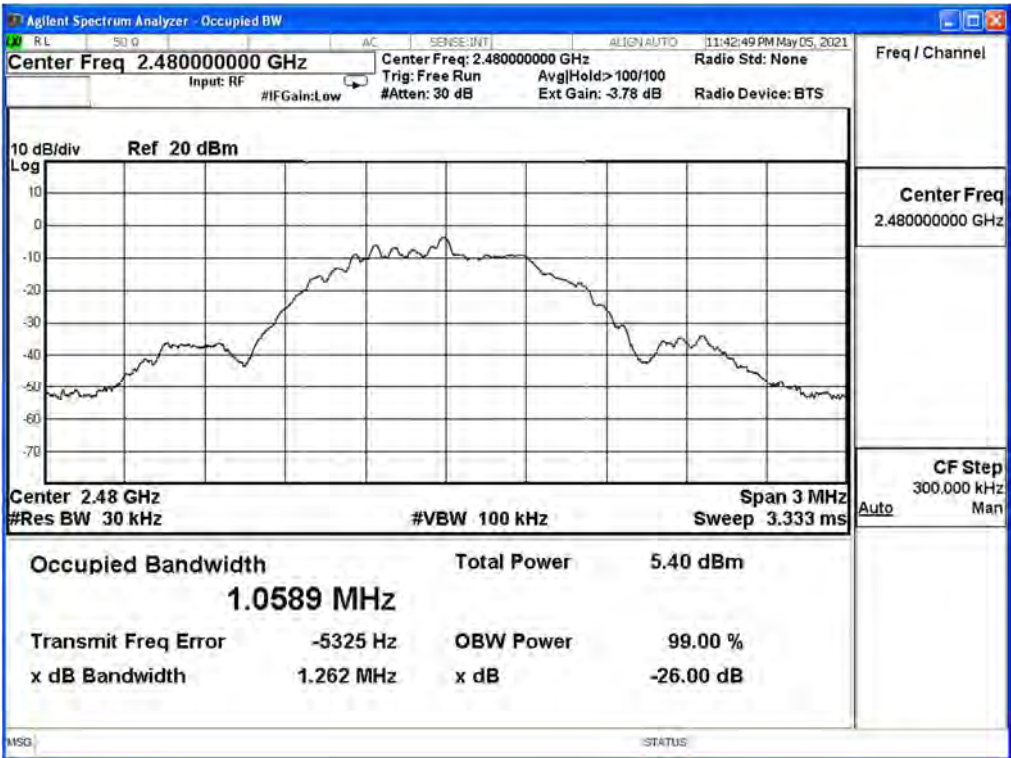
Channel 00



Channel 19



Channel 39

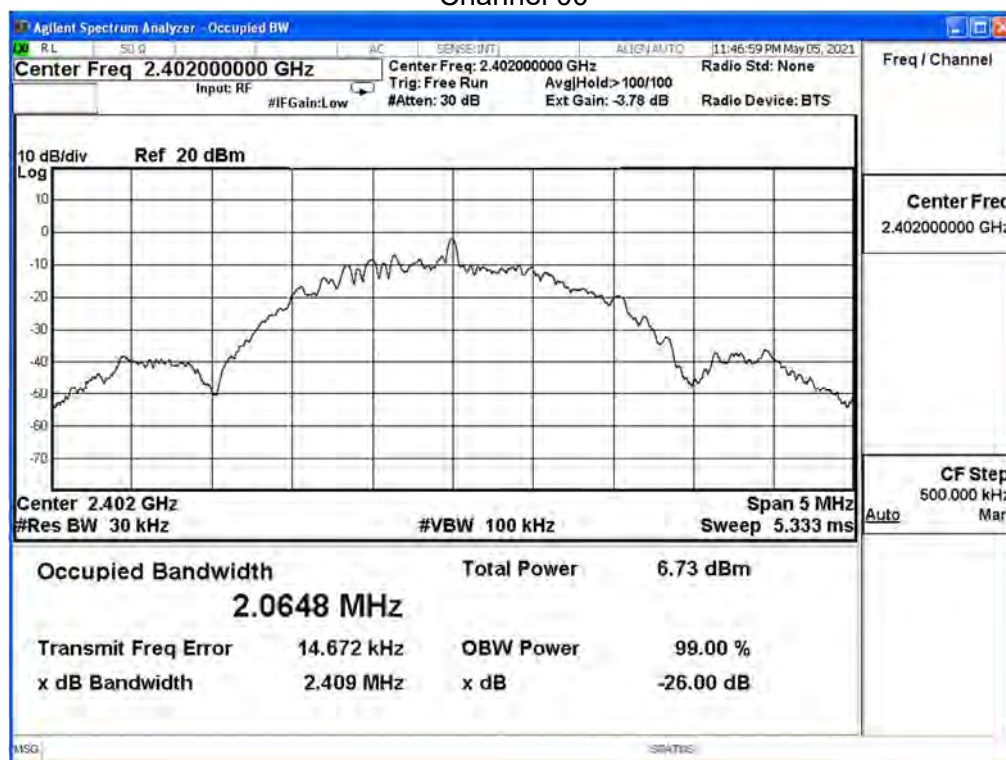


Product	Connectivity Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2021/05/05	Test Site	SR12-H
Temperature(°C)	23.0	Humidity (%RH)	68.0

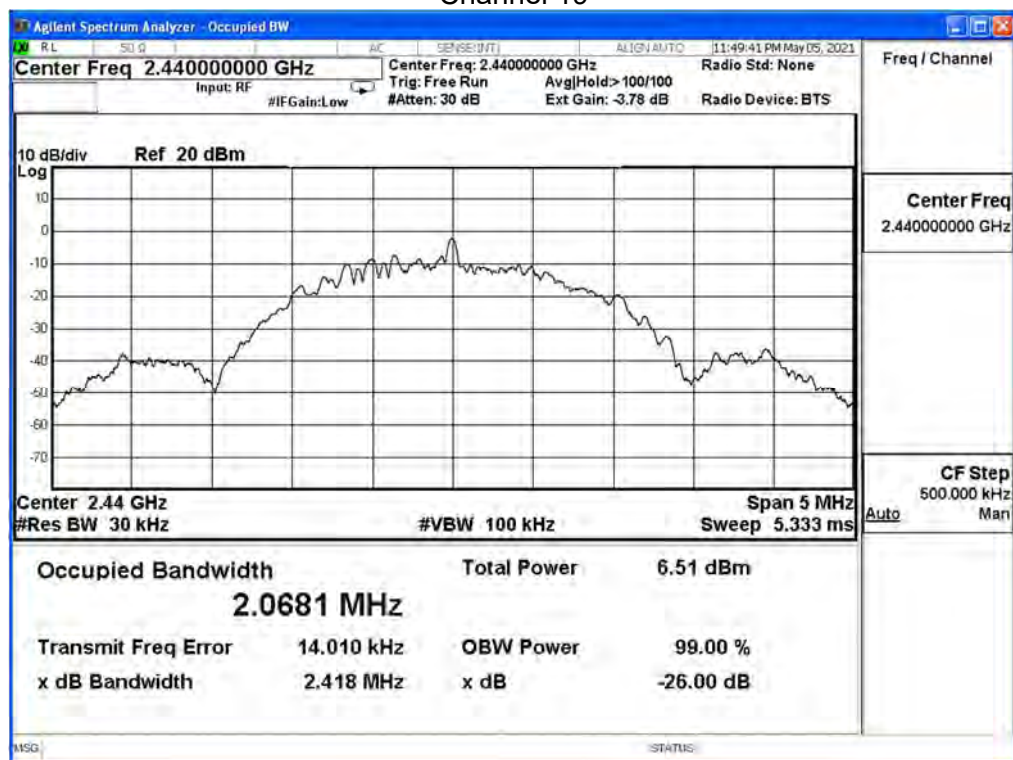
(External Antenna)_BT5.0_2M

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
00	2402	2.064	--
19	2440	2.068	--
39	2480	2.076	--

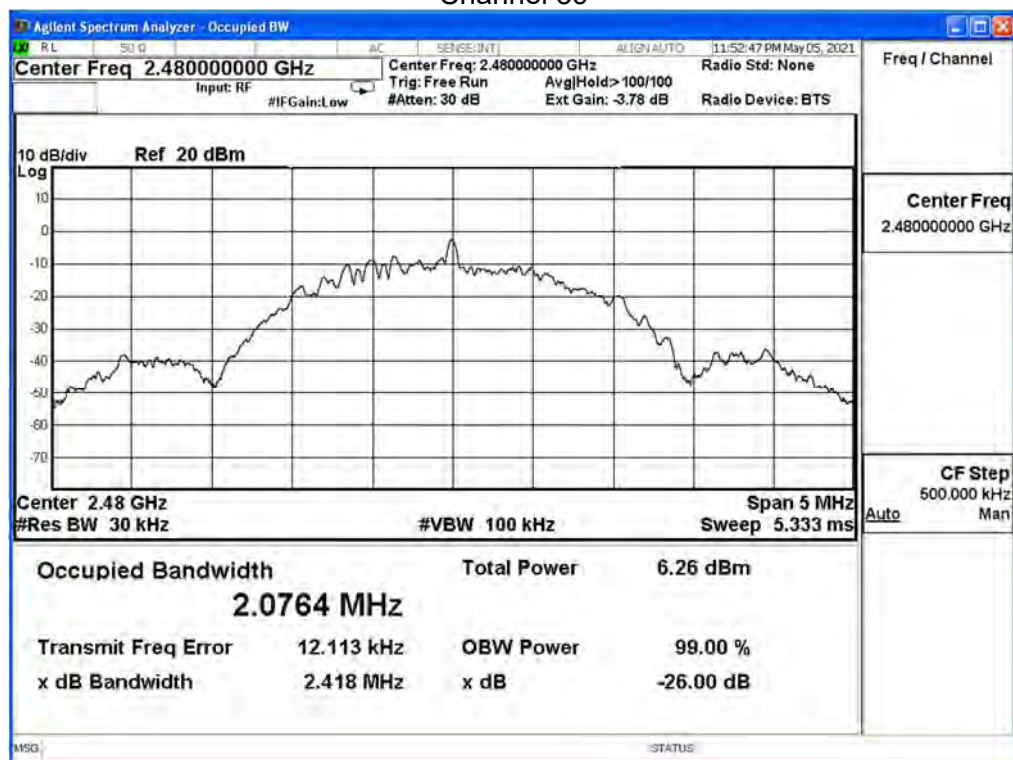
Channel 00



Channel 19



Channel 39

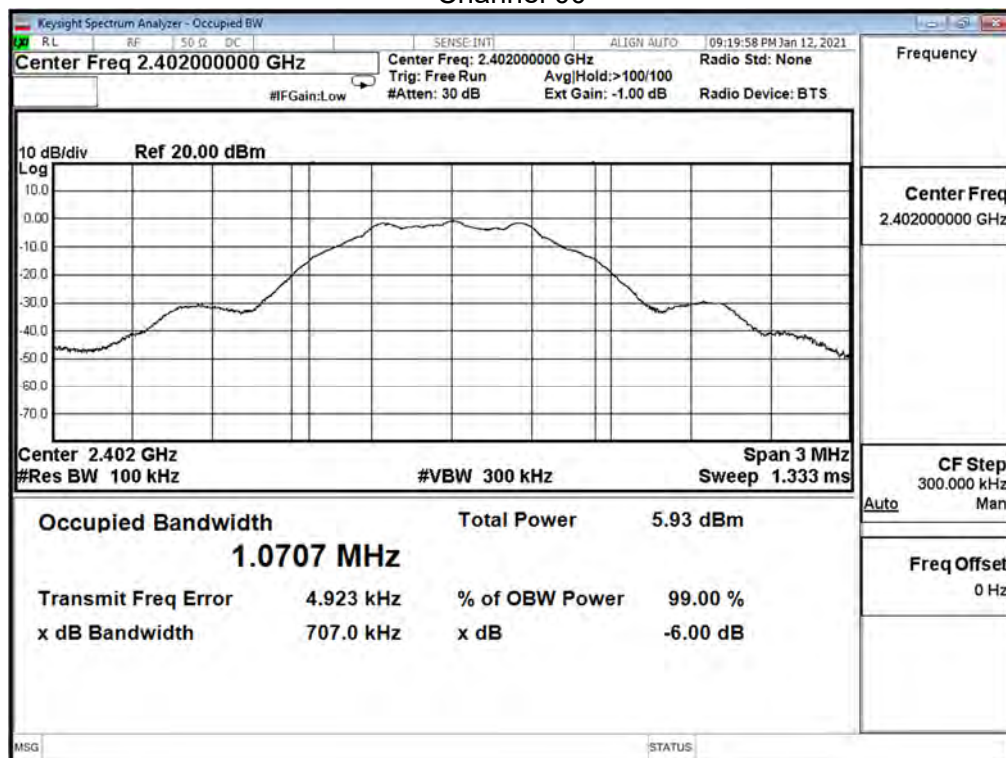


Product	Connectivity Module		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2021/01/12	Test Site	SR12-H
Temperature(°C)	18.0	Humidity (%RH)	58.0

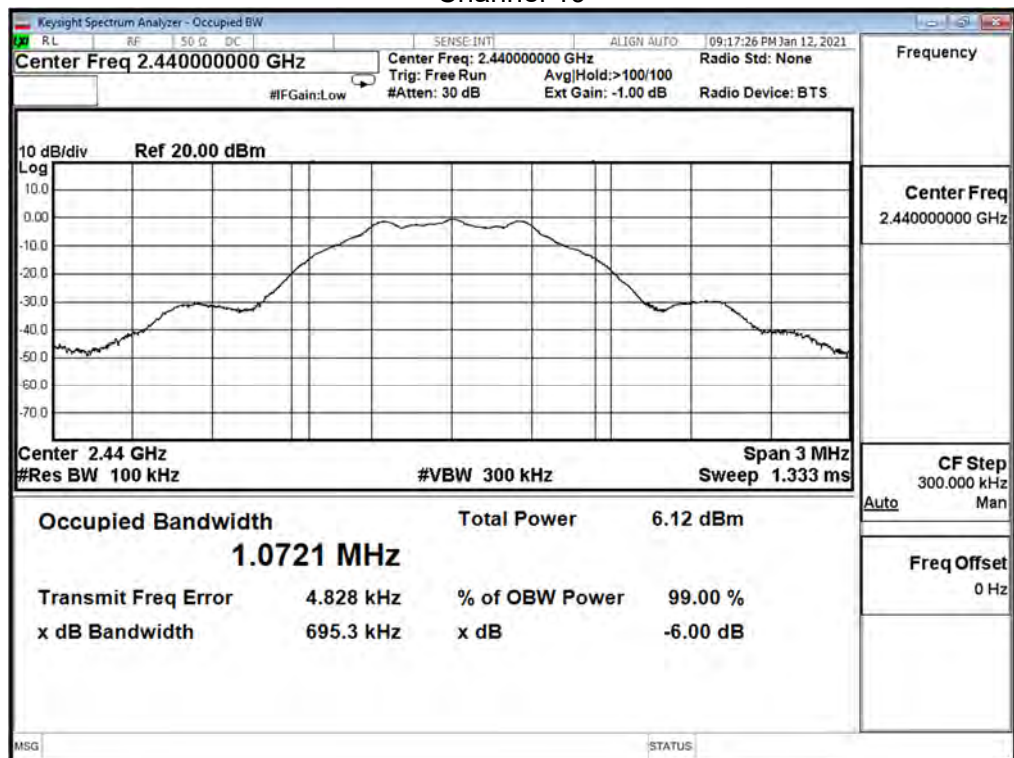
(Internal Antenna)_BT5.0_1M

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
00	2402	0.707	≥ 0.5
19	2440	0.695	≥ 0.5
39	2480	0.693	≥ 0.5

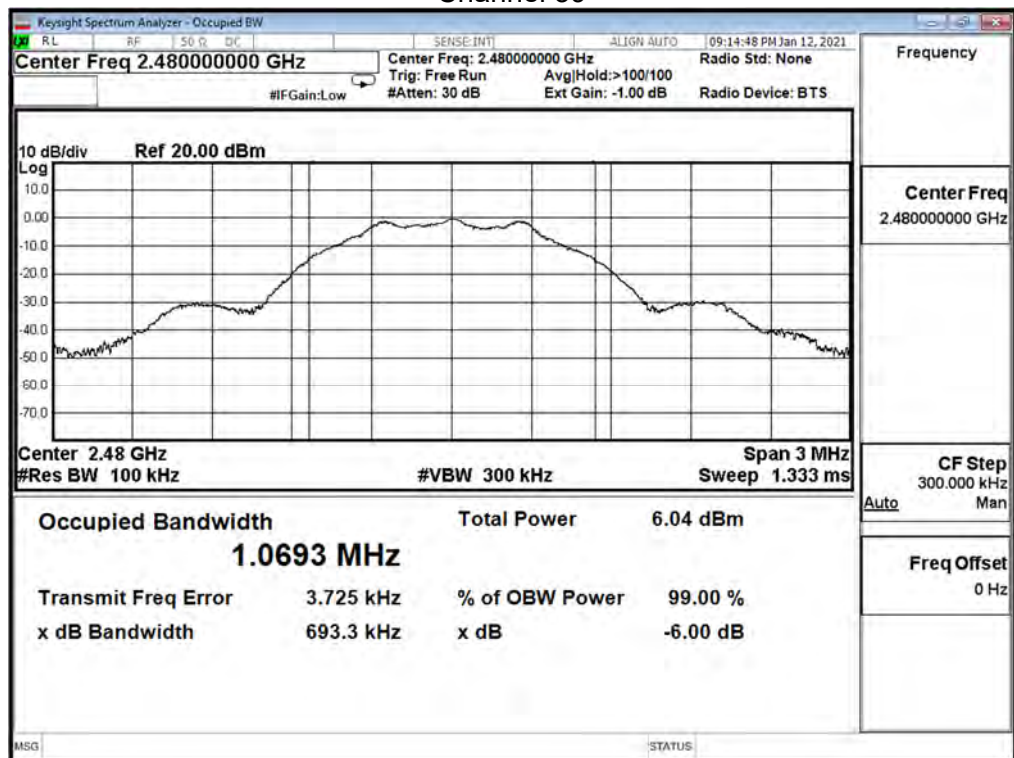
Channel 00



Channel 19



Channel 39

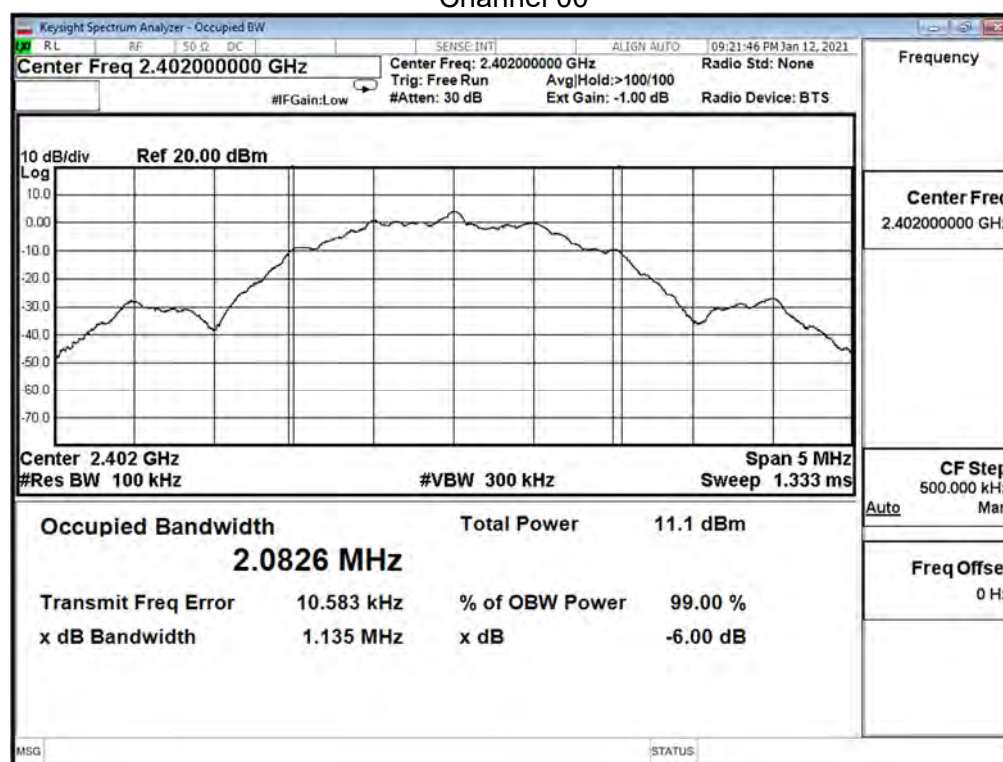


Product	Connectivity Module		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2021/01/12	Test Site	SR12-H
Temperature(°C)	18.0	Humidity (%RH)	58.0

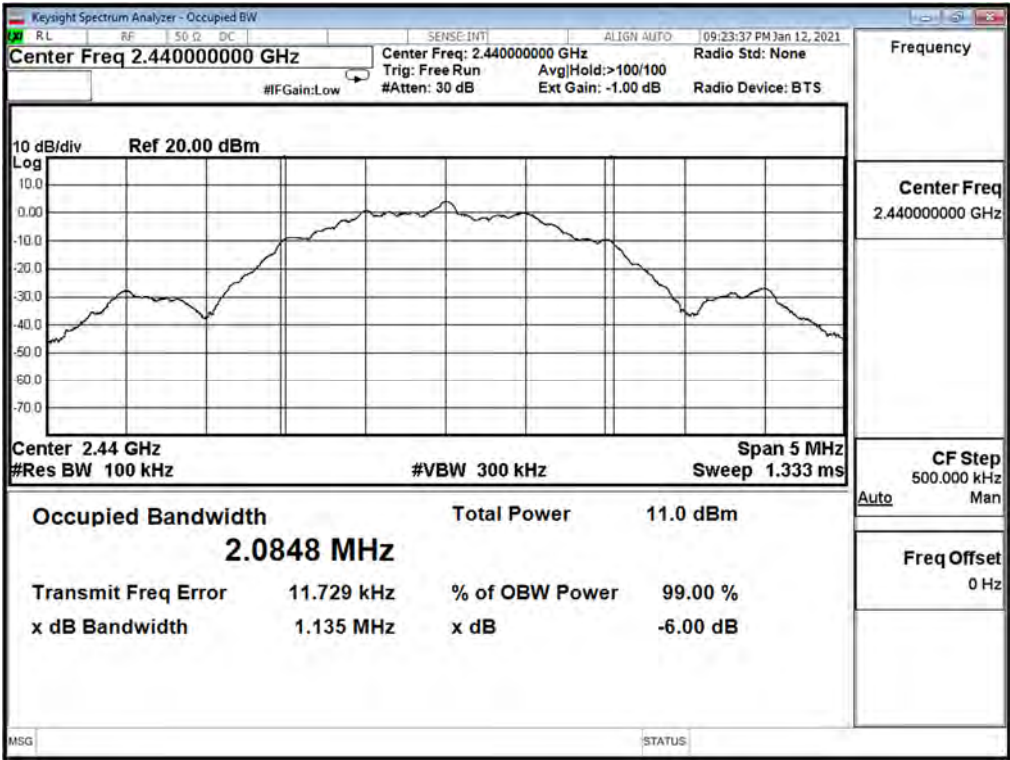
(Internal Antenna)_BT5.0_2M

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
00	2402	1.135	≥ 0.5
19	2440	1.135	≥ 0.5
39	2480	1.135	≥ 0.5

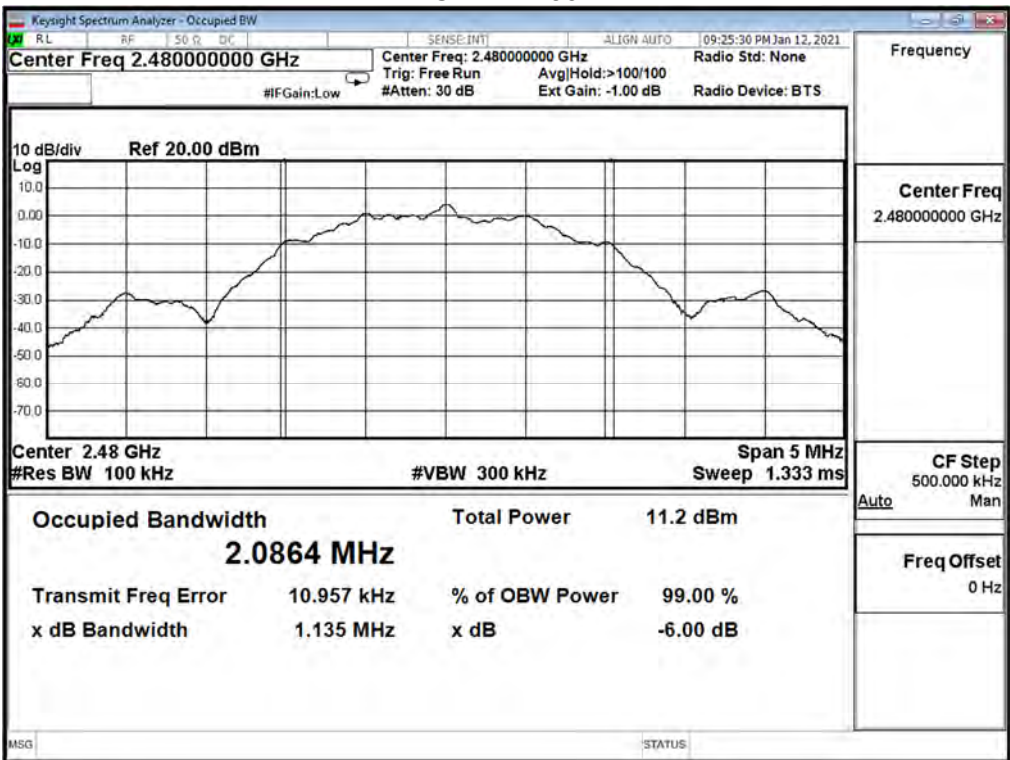
Channel 00



Channel 19



Channel 39

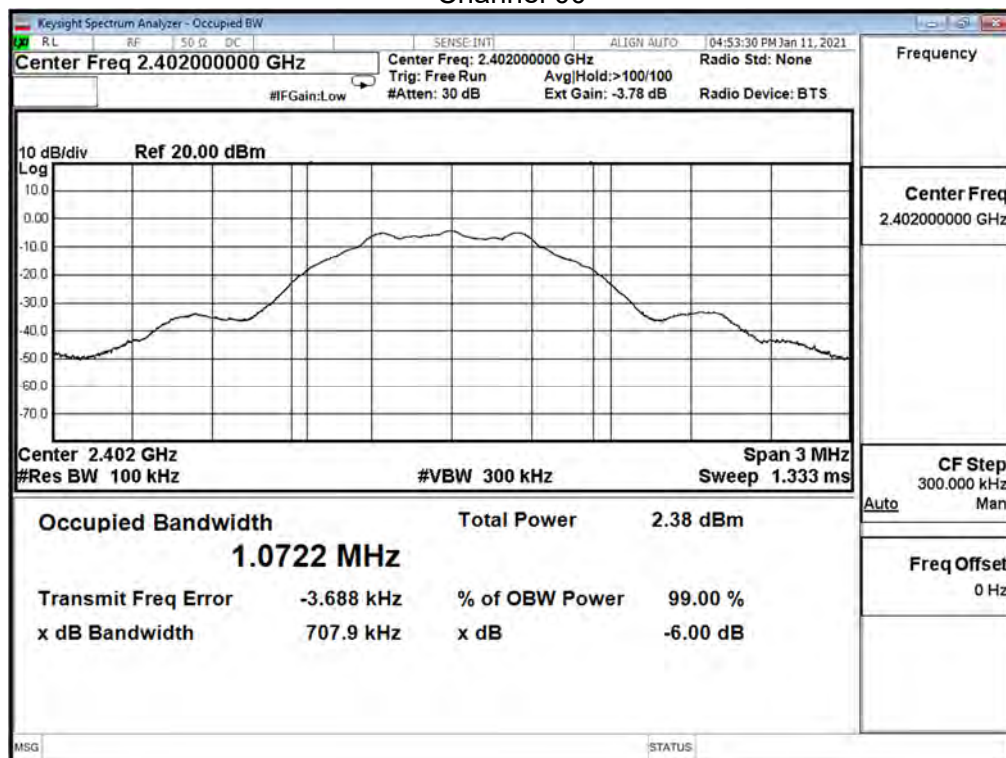


Product	Connectivity Module		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2021/01/11	Test Site	SR12-H
Temperature(°C)	18.0	Humidity (%RH)	60.0

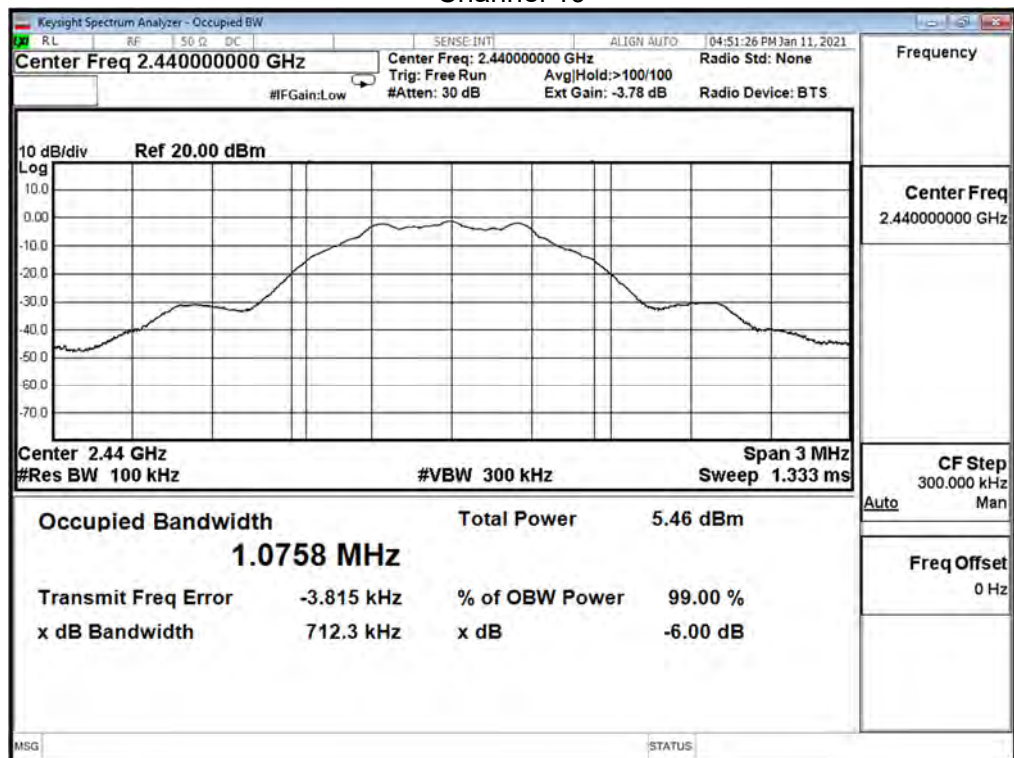
(External Antenna)_BT5.0_1M

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
00	2402	0.707	≥ 0.5
19	2440	0.712	≥ 0.5
39	2480	0.712	≥ 0.5

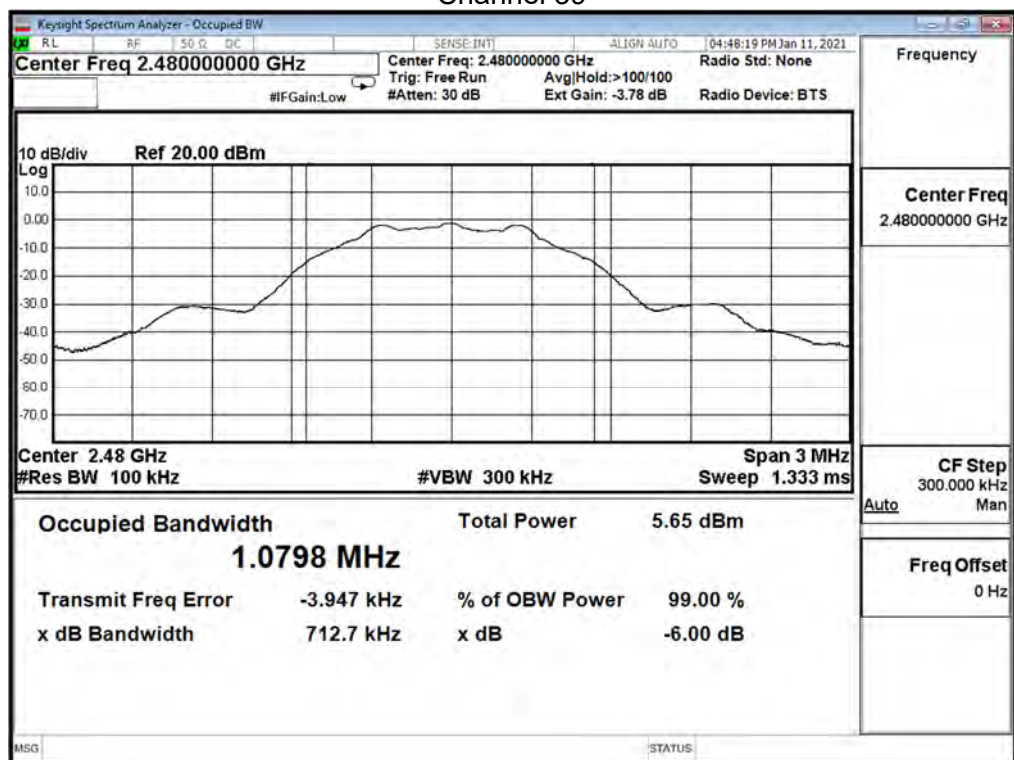
Channel 00



Channel 19



Channel 39

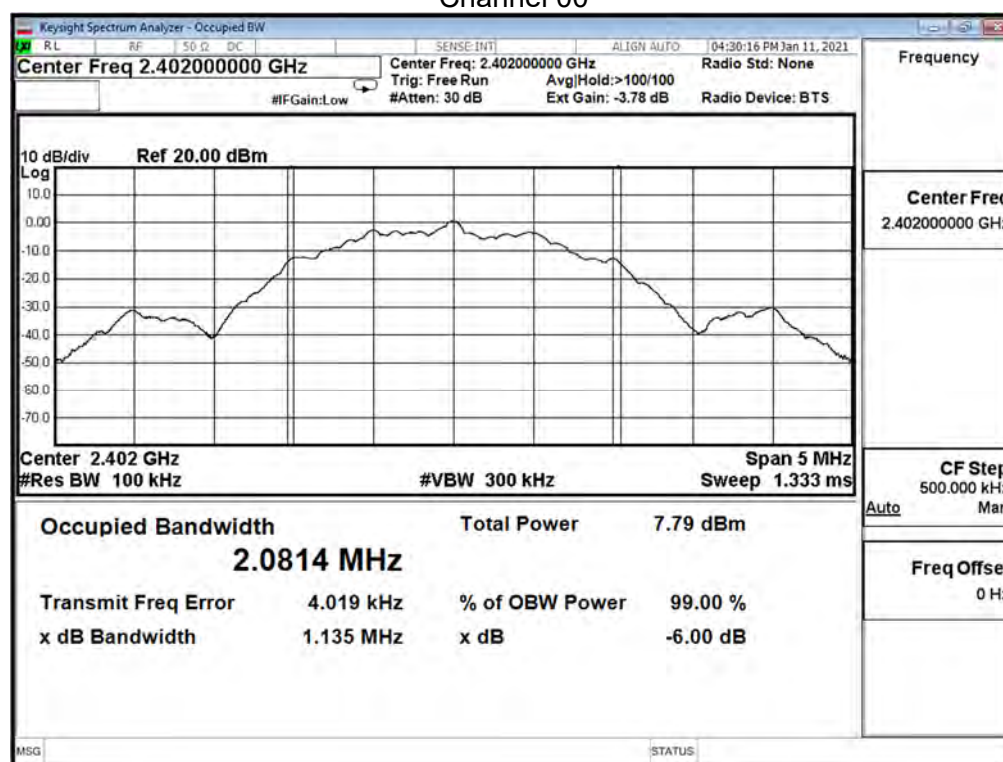


Product	Connectivity Module		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2021/01/11	Test Site	SR12-H
Temperature(°C)	18.0	Humidity (%RH)	60.0

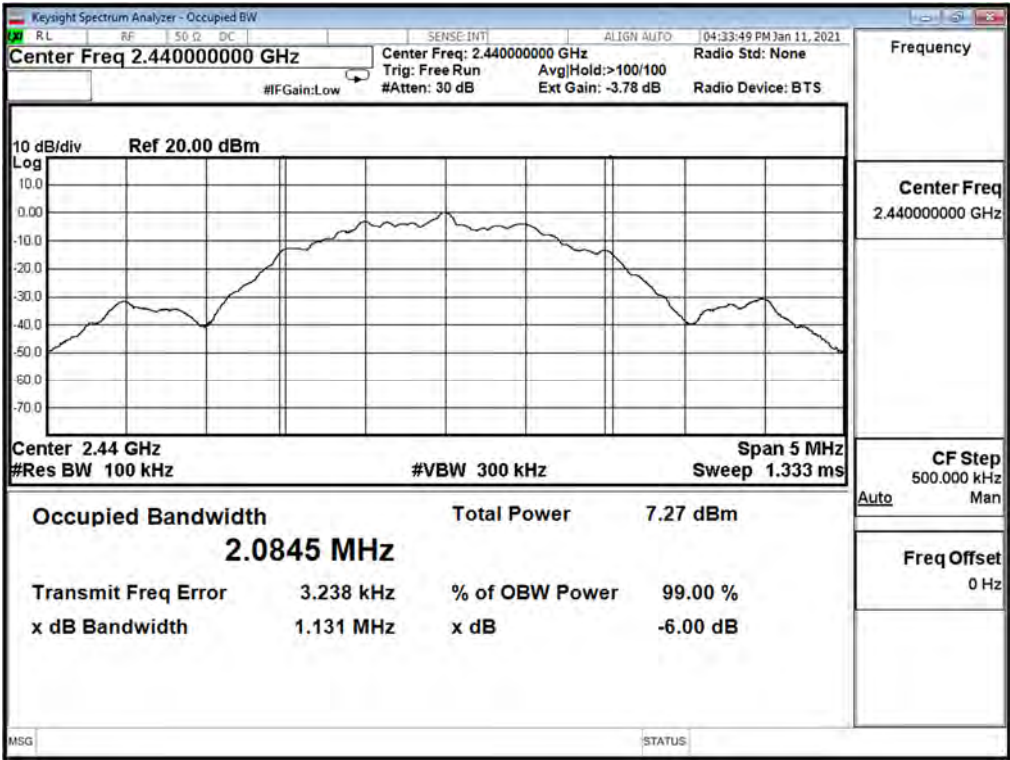
(External Antenna)_BT5.0_2M

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
00	2402	1.135	≥ 0.5
19	2440	1.131	≥ 0.5
39	2480	1.135	≥ 0.5

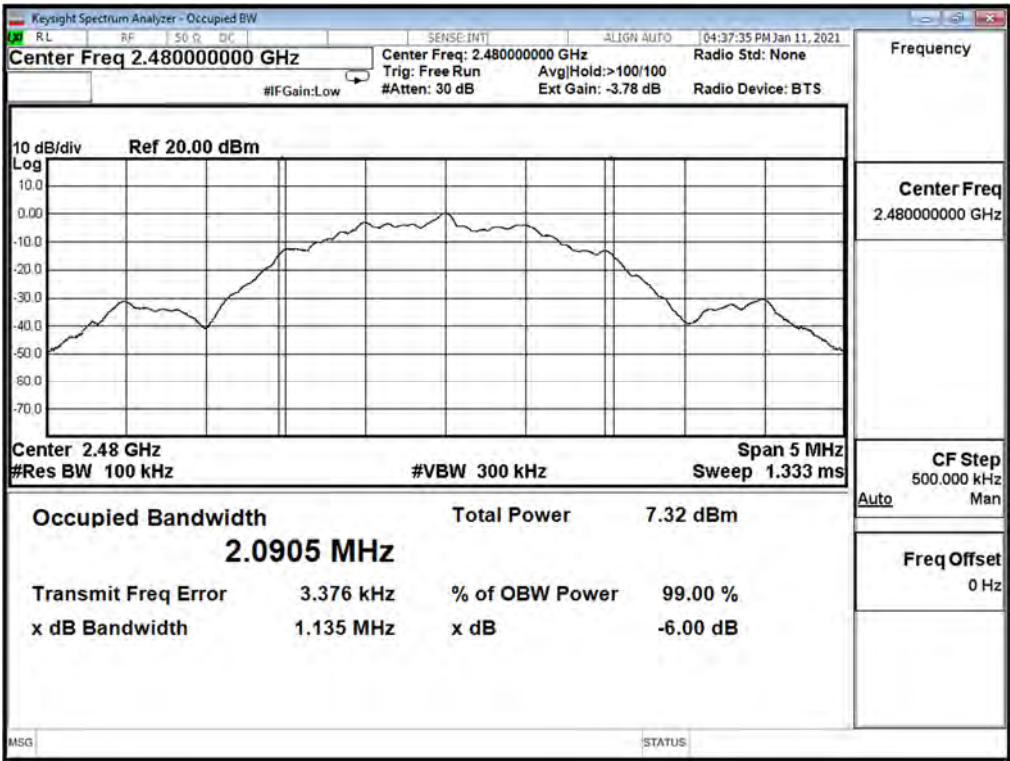
Channel 00



Channel 19

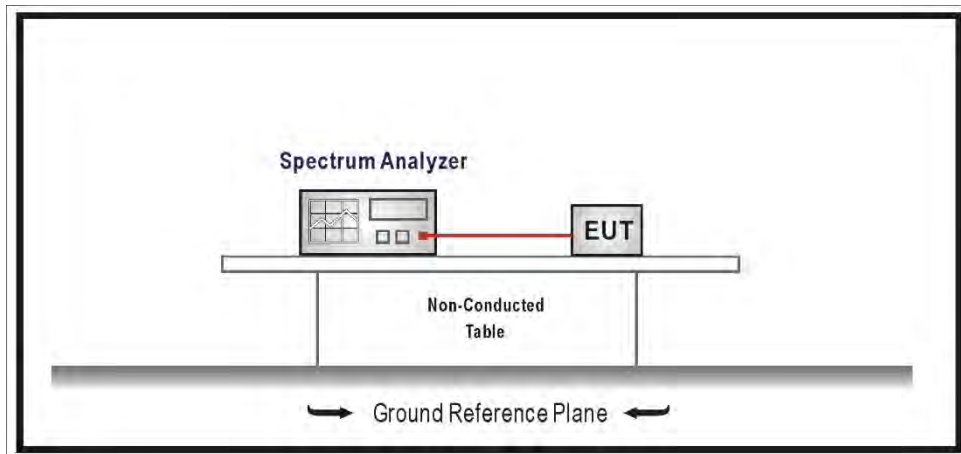


Channel 39



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 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.

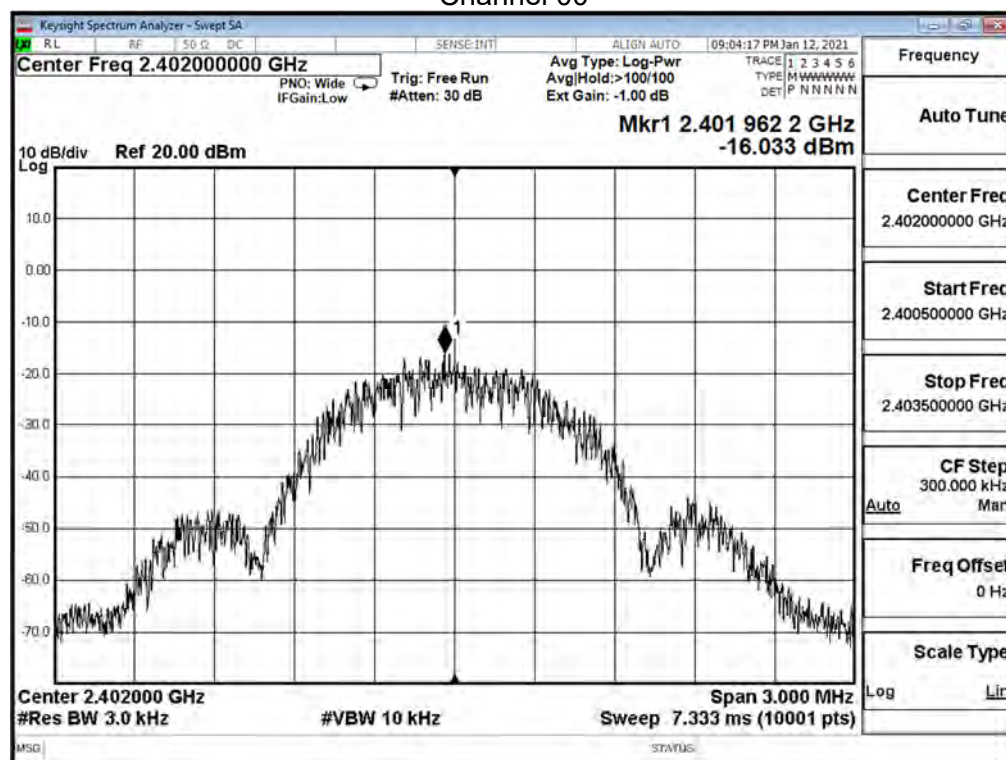
8.5. Test Result

Product	Connectivity Module		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2021/01/12	Test Site	SR12-H
Temperature(°C)	18.0	Humidity (%RH)	58.0

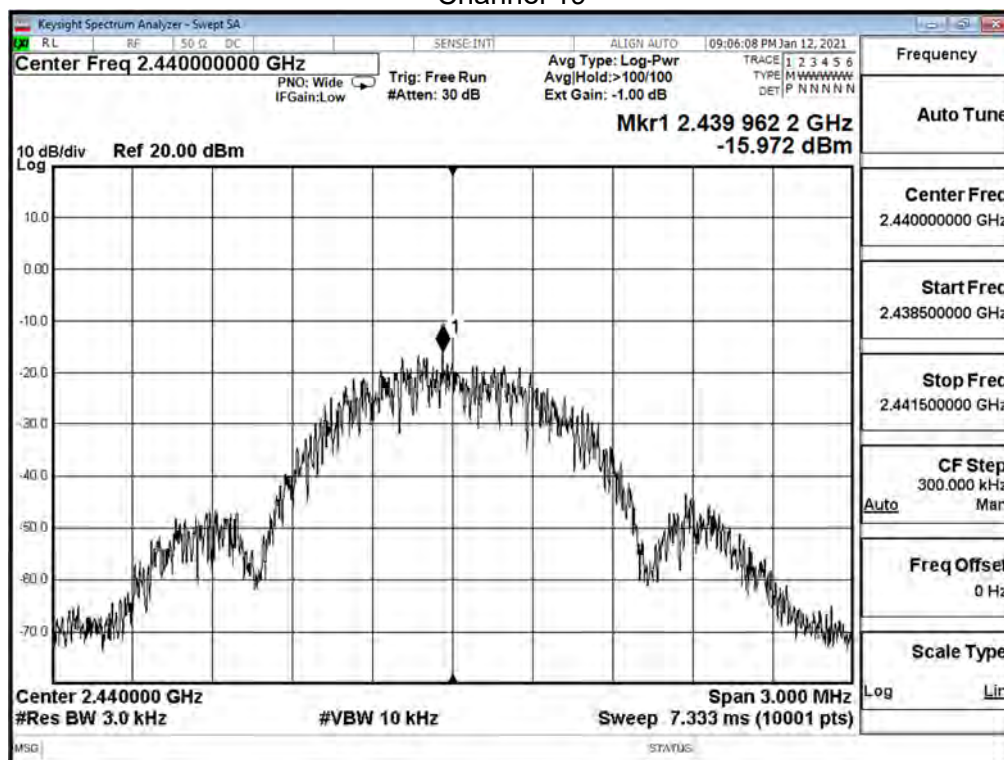
(Internal Antenna) BT5.0 1M

Channel No.	Frequency (MHz)	Measure Value (dBm/3kHz)	Limit (dBm/3kHz)
00	2402	-16.033	≤8.000
19	2440	-15.972	≤8.000
39	2480	-15.687	≤8.000

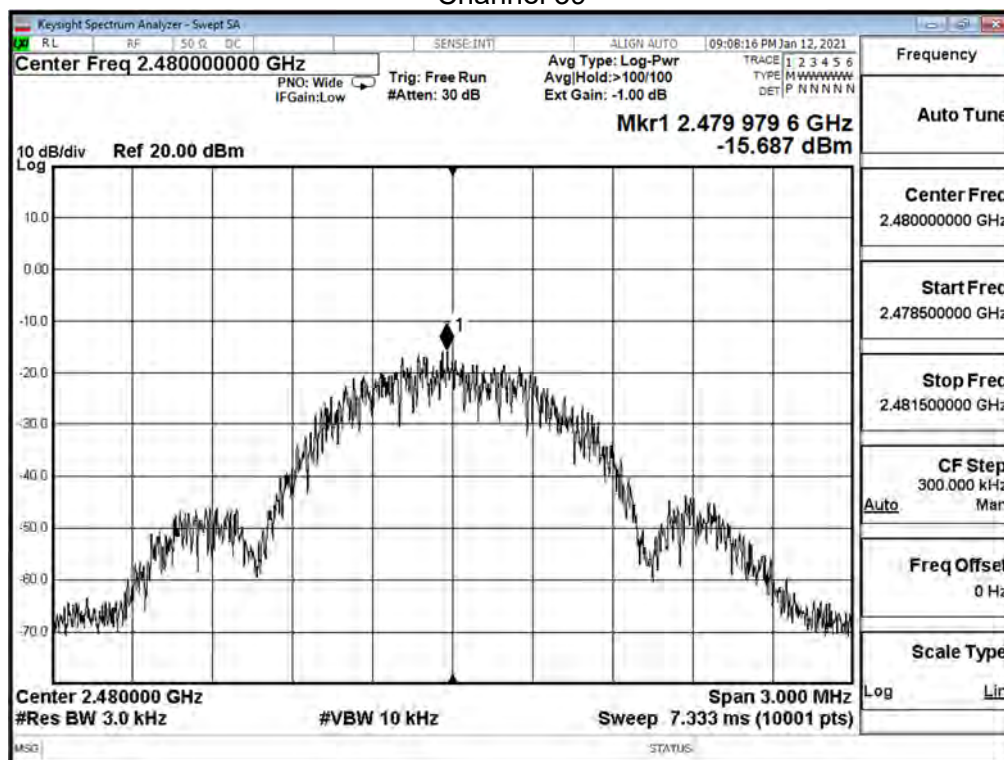
Channel 00



Channel 19



Channel 39

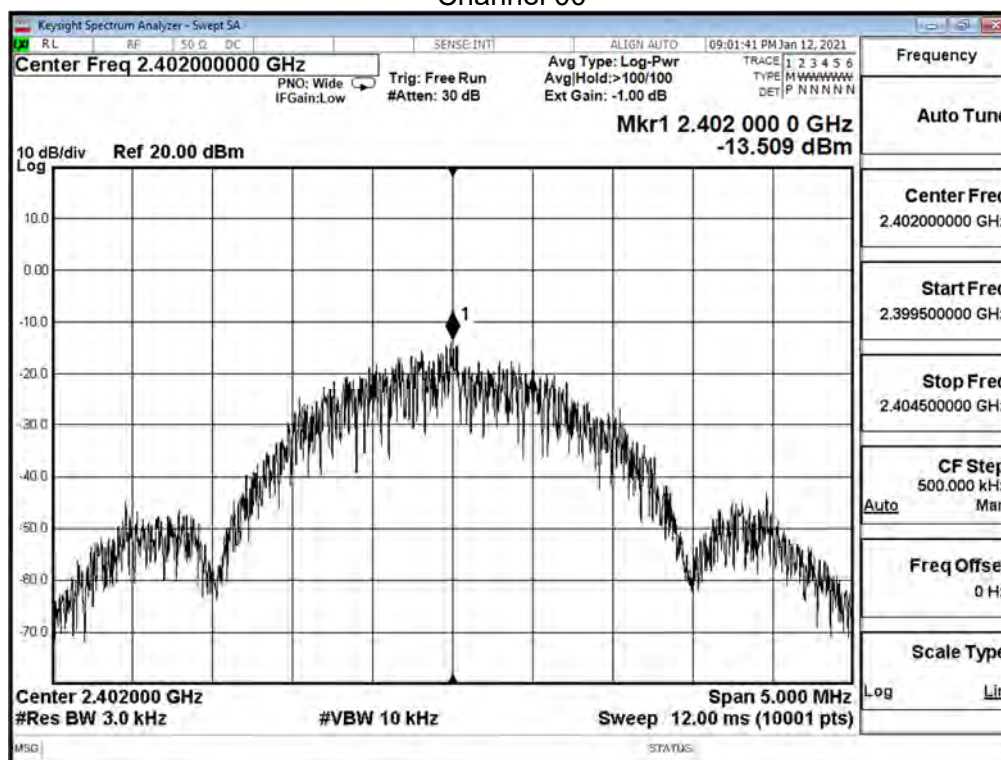


Product	Connectivity Module		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2021/01/12	Test Site	SR12-H
Temperature(°C)	18.0	Humidity (%RH)	58.0

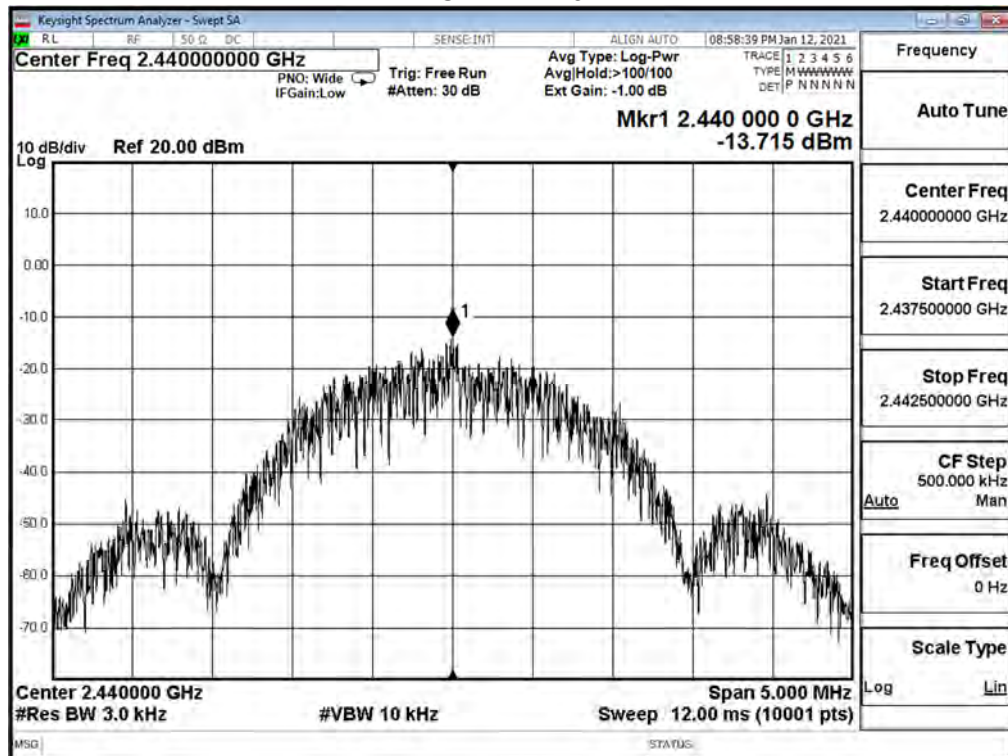
(Internal Antenna) BT5.0 2M

Channel No.	Frequency (MHz)	Measure Value (dBm/3kHz)	Limit (dBm/3kHz)
00	2402	-13.509	≤8.000
19	2440	-13.715	≤8.000
39	2480	-13.989	≤8.000

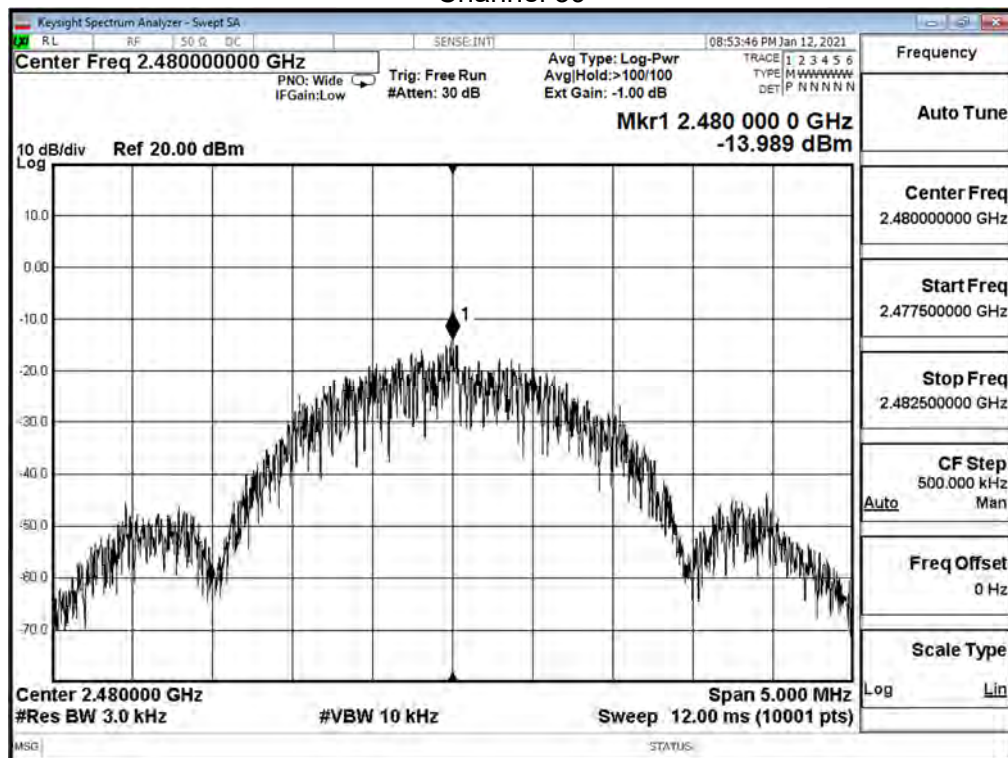
Channel 00



Channel 19



Channel 39

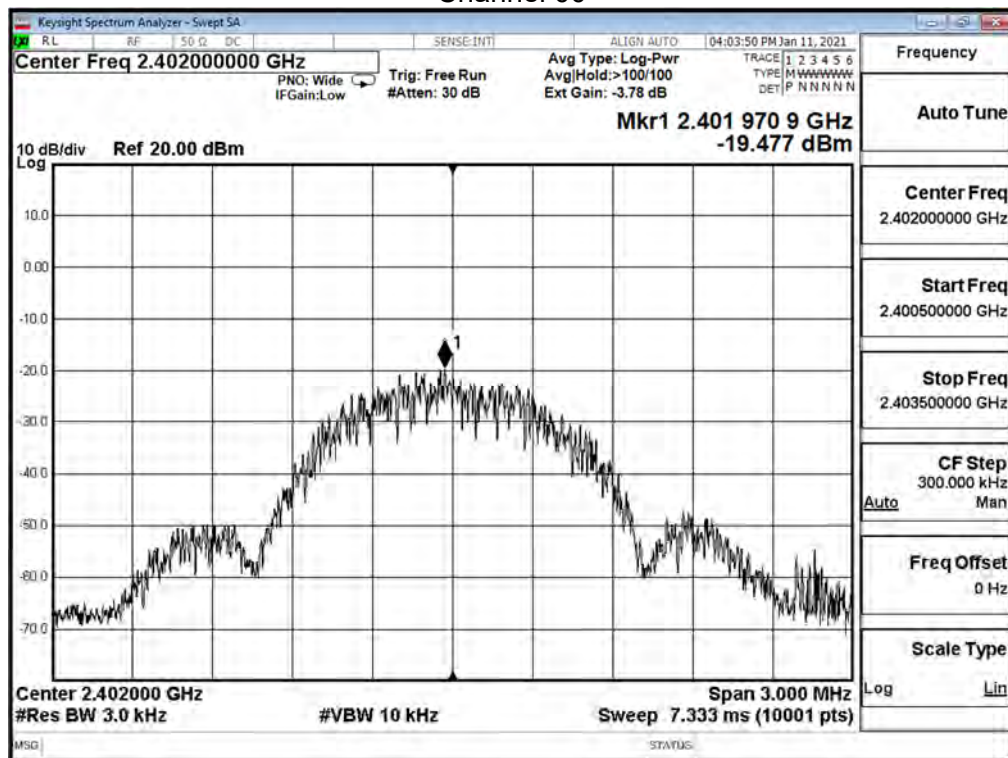


Product	Connectivity Module		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2021/01/11~2021/05/05	Test Site	SR12-H
Temperature(°C)	18.0	Humidity (%RH)	60.0

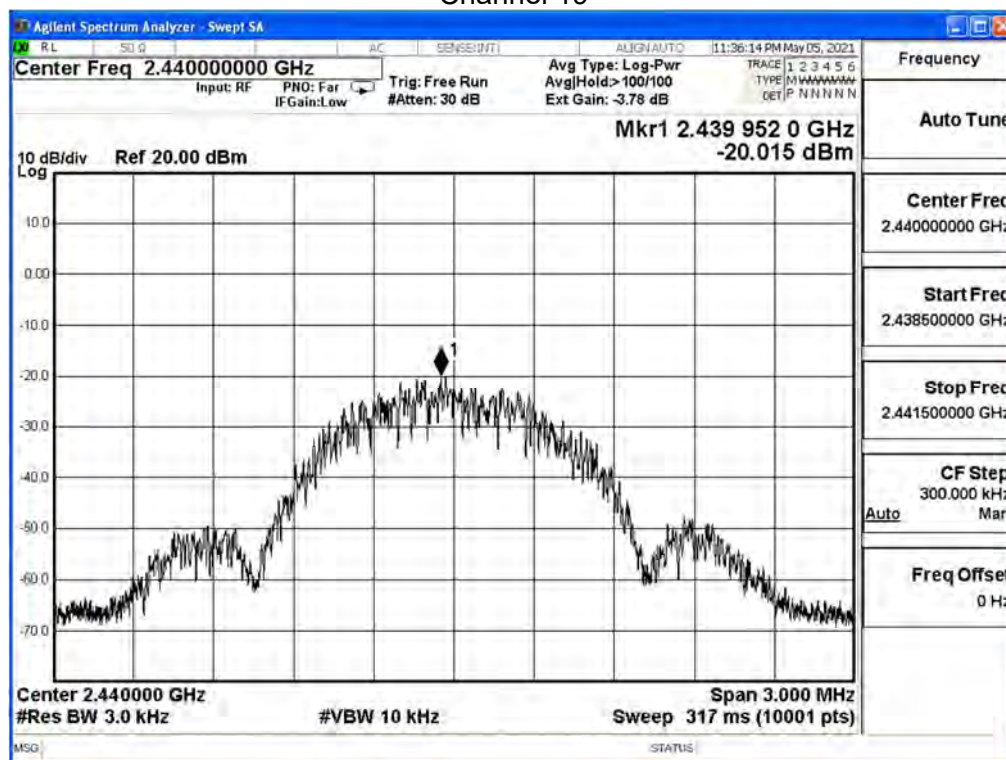
(External Antenna) BT5.0 1M

Channel No.	Frequency (MHz)	Measure Value (dBm/3kHz)	Limit (dBm/3kHz)
00	2402	-19.477	≤8.000
19	2440	-20.015	≤8.000
39	2480	-16.208	≤8.000

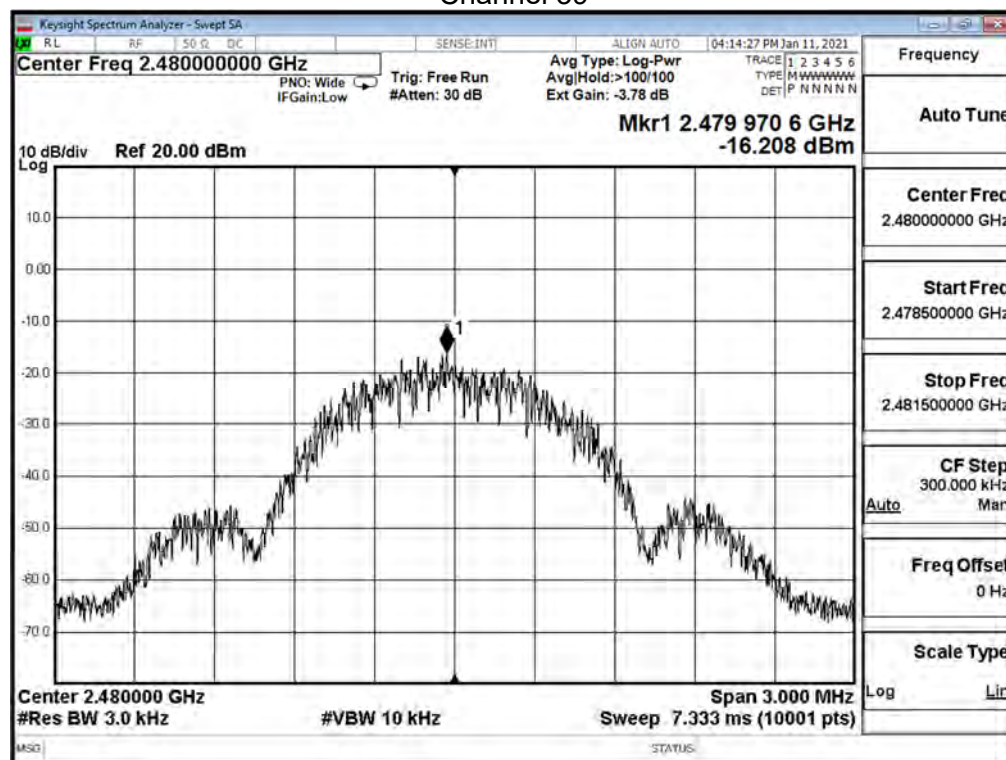
Channel 00



Channel 19



Channel 39

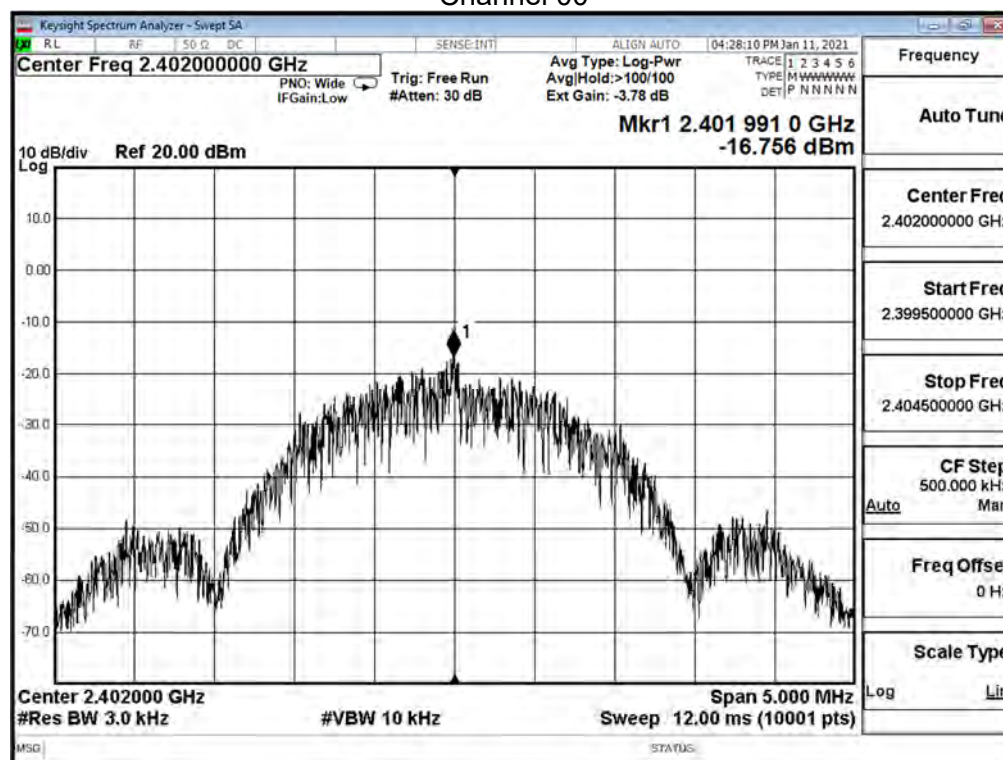


Product	Connectivity Module		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2021/01/11	Test Site	SR12-H
Temperature(°C)	18.0	Humidity (%RH)	60.0

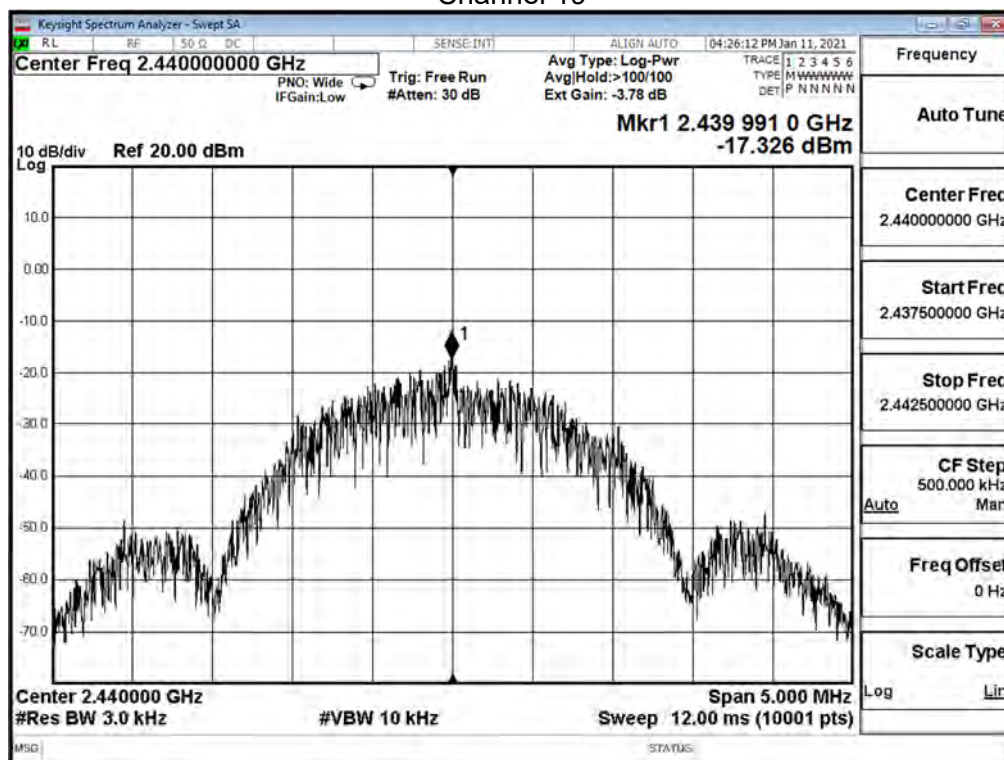
(External Antenna) BT5.0 2M

Channel No.	Frequency (MHz)	Measure Value (dBm/3kHz)	Limit (dBm/3kHz)
00	2402	-16.756	≤8.000
19	2440	-17.326	≤8.000
39	2480	-17.301	≤8.000

Channel 00



Channel 19



Channel 39

