

FCC Test Report

Product Name : Smart Construction Rover
Trade Name : LANDLOG
Model No. : SC Rover
FCC ID : 2AXNO-SCROVER-01

Applicant : LANDLOG Ltd.

Address : 12F Sumitomofudosan Shibadaimon 2chome Building 2-11-8
Shibadaimon, Minato-ku, Tokyo 105-0012 Japan

Date of Receipt : Sep. 28, 2020
Issued Date : Jan. 08, 2021
Report No. : 2090945R-E3032110113
Report Version : V1.0



The test results relate only to the samples tested.

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

Test Report Certification

Issued Date : Jan. 08, 2021

Report No.: 2090945R-E3032110113



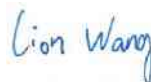
Product Name : Smart Construction Rover
Applicant : LANDLOG Ltd.
Address : 12F Sumitomofudosan Shibadaimon 2chome Building 2-11-8
Shibadaimon, Minato-ku, Tokyo 105-0012 Japan
Manufacturer : AKASAKA TEC INC.
Address : 3F. Marina Plaza 4-2, Shiraho, Kanazawa-ku, Yokohama-shi,
Kanagawa, 236-0007 Japan
Model No. : SC Rover
FCC ID : 2AXNO-SCROVER-01
EUT Test Voltage : DC 12V
Testing Voltage : DC 12V
Trade Name : LANDLOG
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 :



(Carol Tsai / Senior Engineering Adm. Specialist)

Tested By :



(Lion Wang / Engineer)

Approved By :



(Louis Hsu / Deputy Manager)

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Jan. 08, 2021

TABLE OF CONTENTS

Description	Page
1. General Information.....	6
1.1. EUT Description	6
1.2. Test Mode	8
1.3. Tested System Details	9
1.4. Configuration of tested System	9
1.5. EUT Exercise Software	9
1.6. Comments and Remarks.....	10
1.7. Test Facility	11
1.8. List of Test Equipment.....	12
1.9. Duty Cycle	15
1.10. Uncertainty	17
2. Conducted Emission	18
2.1. Test Setup	18
2.2. Limits	18
2.3. Test Procedure	19
2.4. Test Specification	19
2.5. Test Result	19
3. Maximum peak conducted output power.....	20
3.1. Test Setup	20
3.2. Test procedures	20
3.3. Limits	20
3.4. Test Specification	20
3.5. Test Result	21
4. Radiated Emission	22
4.1. Test Setup	22
4.2. Limits	22
4.3. Test Procedure	23
4.4. Test Specification	23
4.5. Test Result	24
5. RF antenna conducted test	44
5.1. Test Setup	44
5.2. Limits	44
5.3. Test Procedure	44
5.4. Test Specification	44
5.5. Test Result	45
6. Radiated Emission Band Edge.....	57
6.1. Test Setup	57
6.2. Limits	57
6.3. Test Procedure	57

6.4.	Test Specification	57
6.5.	Test Result	58
7.	DTS Bandwidth	94
7.1.	Test Setup	94
7.2.	Test Procedures	94
7.3.	Limits	94
7.4.	Test Specification	94
7.5.	Test Result	95
8.	Occupied Bandwidth	101
8.1.	Test Setup	101
8.2.	Test Procedures	101
8.3.	Limits	101
8.4.	Test Specification	101
8.5.	Test Result	102
9.	Power Density	108
9.1.	Test Setup	108
9.2.	Limits	108
9.3.	Test Procedures	108
9.4.	Test Specification	108
9.5.	Test Result	109
Attachment 1		115
	Test Setup Photograph	115
Attachment 2		117
	EUT External Photograph	117
Attachment 3		122
	EUT Internal Photograph	122

1. General Information

1.1. EUT Description

Product Name	Smart Construction Rover	
Trade Name	LANDLOG	
Model No.	SC Rover	
Frequency Range/ Channel Number	IEEE 802.11b/g IEEE 802.11n (20MHz)	2412~2462MHz / 11 Channels
Type of Modulation	IEEE 802.11b	Direct Sequence Spread Spectrum
	IEEE 802.11g/n	Orthogonal Frequency Division Multiplexing
Data Speed	IEEE 802.11b	1, 2, 5.5, 11Mbps
	IEEE 802.11g	6, 12, 18, 24, 36, 48, 54Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0~MCS 7 and bandwidth defined in 802.11n

Antenna Information				
No.	Brand	Model No.	Ant. Type	Ant. Gain (dBi)
0	WHAYU	C578-510031-A	PCB Antenna	3.79

Accessories Information	
Power cable and RS232 port cable	Shielded, 3.1m
RS-232 serial port cable	Shielded, 0.5m
GNSS Antenna Cable	Shielded, 10m

ANT-TX / RX & Bandwidth

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

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

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

Note:

1. This device is a Smart Construction Rover including 2.4GHz b/g/n and BT 4.0 transmitting and receiving functions.
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247.
3. Regards to the frequency band operation; the lowest, middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. The EUT description is from the customer declaration.

1.2. Test Mode

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

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

Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11n(20MHz)	6	0	N/A
Maximum peak conducted output power	11b/g	1/6/11	0	Complies
	11n(20MHz)	1/6/11	0	Complies
Radiated Emission	11b/g	1/6/11	0	Complies
	11n(20MHz)	1/6/11	0	Complies
RF antenna conducted test	11b/g	1/6/11	0	Complies
	11n(20MHz)	1/6/11	0	Complies
Radiated Emission Band Edge	11b/g	1/6/11	0	Complies
	11n(20MHz)	1/6/11	0	Complies
DTS Bandwidth	11b/g	1/6/11	0	Complies
	11n(20MHz)	1/6/11	0	Complies
Occupied Bandwidth	11b/g	1/6/11	0	Complies
	11n(20MHz)	1/6/11	0	Complies
Power Density	11b/g	1/6/11	0	Complies
	11n(20MHz)	1/6/11	0	Complies

Note 1: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

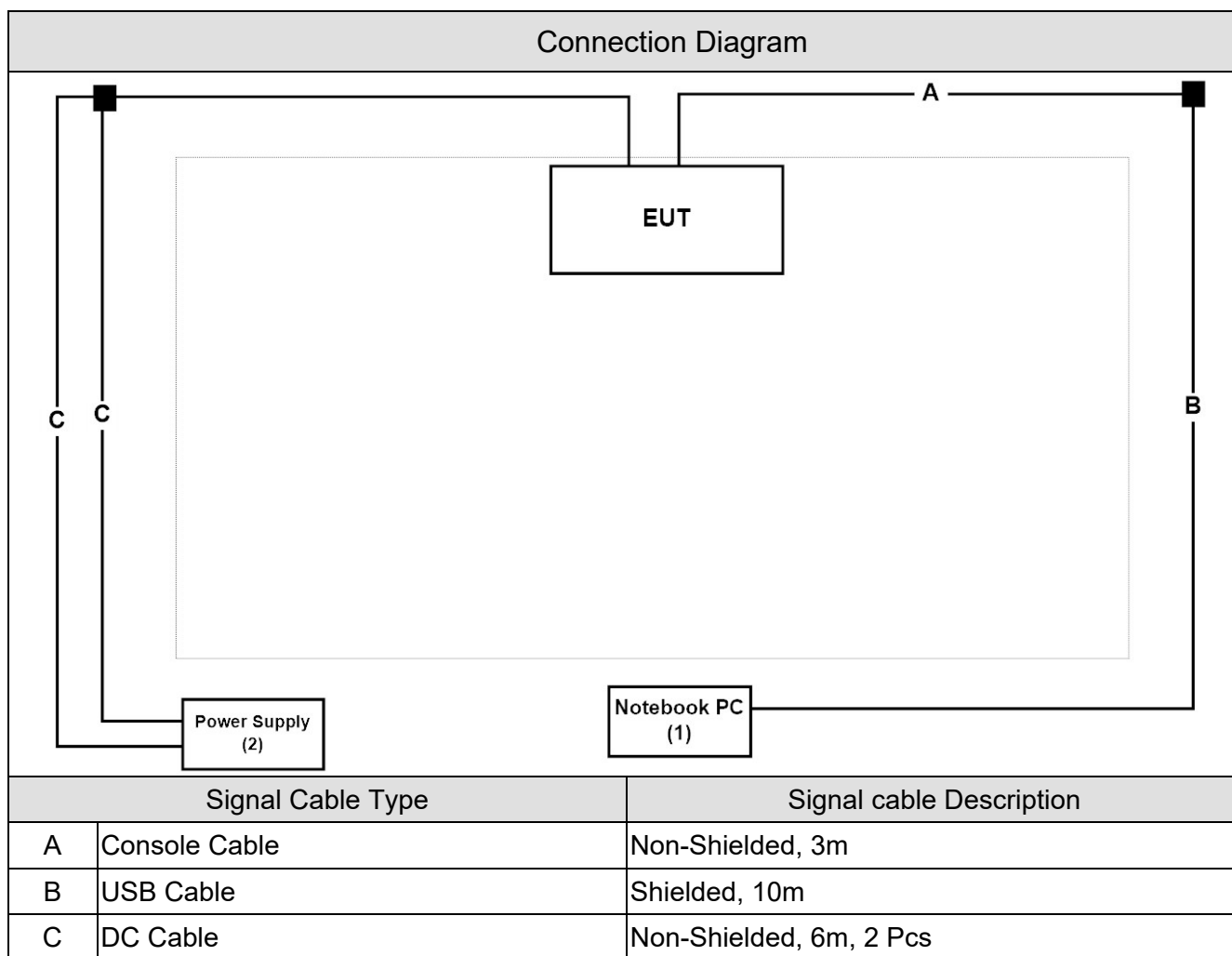
Note 2: Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 Notebook PC	Lenove	Lenovo B590	WB15329782	I/P: Non-Shielded, 1.8 m O/P: Shielded, 1.8 m One ferrite core bonded.
2 Power Supply	Agilent	E3646A	MY40008218	Non-Shielded, 1.8m

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Open the control software DRCT 3
3	Configure test mode, test channel and data rate.
4	Let the EUT start transmitting 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	2019/12/02	2020/12/01
Pulse Power Sensor	Anritsu	MA2411B	1531043	2019/12/02	2020/12/01
Pulse Power Sensor	Anritsu	MA2411B	1531044	2019/12/02	2020/12/01
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	2021/03/29
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
Bilog Antenna	Teseq	CBL6112D	23191	2020/06/12	2021/06/11
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2020/06/04	2021/06/03
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/12/27	2020/12/26
Pre-Amplifier	DEKRA	AP-025C	12183122	2020/09/03	2021/09/02
Pre-Amplifier	EMCI	EMC11830I	980366	2019/12/03	2020/12/02
Pre-Amplifier	DEKRA	AP-400C	201801231	2019/12/03	2020/12/02
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2020/10/14	2021/10/13
Band Reject Filter	Micro-Tronics	BRM50702	G192	2020/03/09	2021/03/08
Signal Analyzer	R&S	FSV40	101435	2020/06/24	2021/06/23
Coaxial Cable(13m)	Huber+Suhner	SF104	CB2-H	2020/07/25	2021/07/24
DEKRA Testing System	DEKRA	Version 1.2	CB2-H	NA	NA

RF antenna conducted test / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	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	2021/03/29
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
Bilog Antenna	Teseq	CBL6112D	23191	2020/06/12	2021/06/11
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2020/06/04	2021/06/03
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/12/27	2020/12/26
Pre-Amplifier	DEKRA	AP-025C	12183122	2020/09/03	2021/09/02
Pre-Amplifier	EMCI	EMC11830I	980366	2019/12/03	2020/12/02
Pre-Amplifier	DEKRA	AP-400C	201801231	2019/12/03	2020/12/02
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2020/10/14	2021/10/13
Band Reject Filter	Micro-Tronics	BRM50702	G192	2020/03/09	2021/03/08
Signal Analyzer	R&S	FSV40	101435	2020/06/24	2021/06/23
Coaxial Cable(13m)	Huber+Suhner	SF104	CB2-H	2020/07/25	2021/07/24
DEKRA Testing System	DEKRA	Version 1.2	CB2-H	NA	NA

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	2021/04/14
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29

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

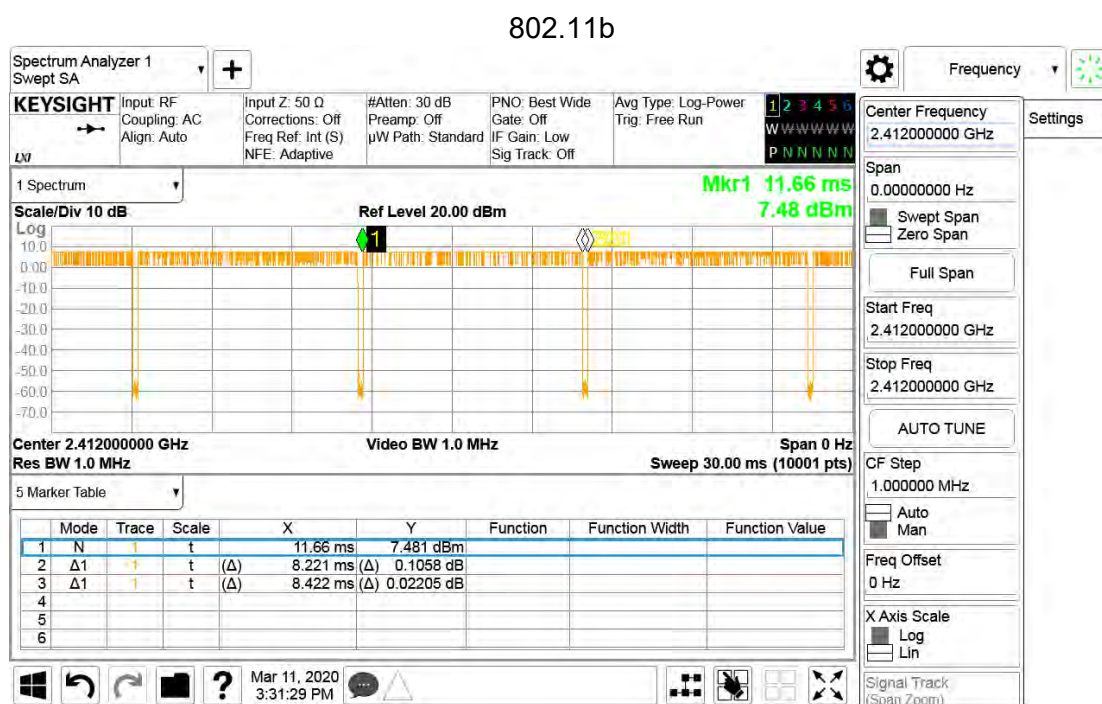
Power Density / SR12-H

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

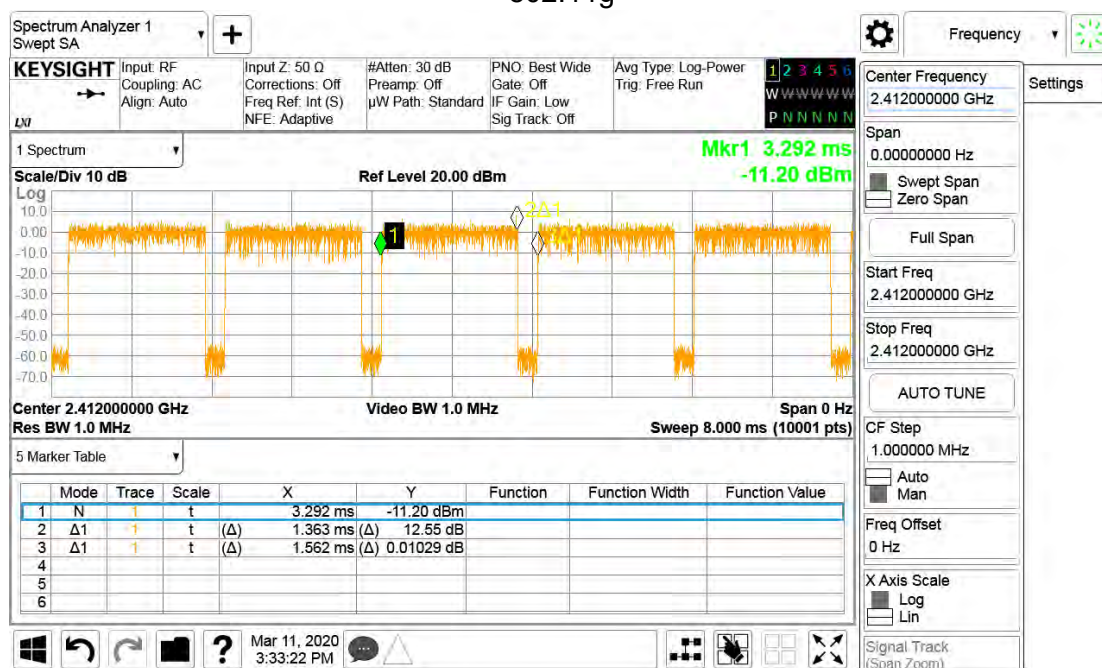
Note: All equipment upon which need to calibrated are with calibration period of 1 year.

1.9. Duty Cycle

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor(dB) linear voltage	1/T Minimum VBW (kHz)
802.11b	8.221	8.422	97.61%	0.209812	0.12
802.11g	1.363	1.562	87.26%	1.183703	0.73
802.11n20	1.276	1.474	86.57%	1.252936	0.78



802.11g



802.11n (20M)

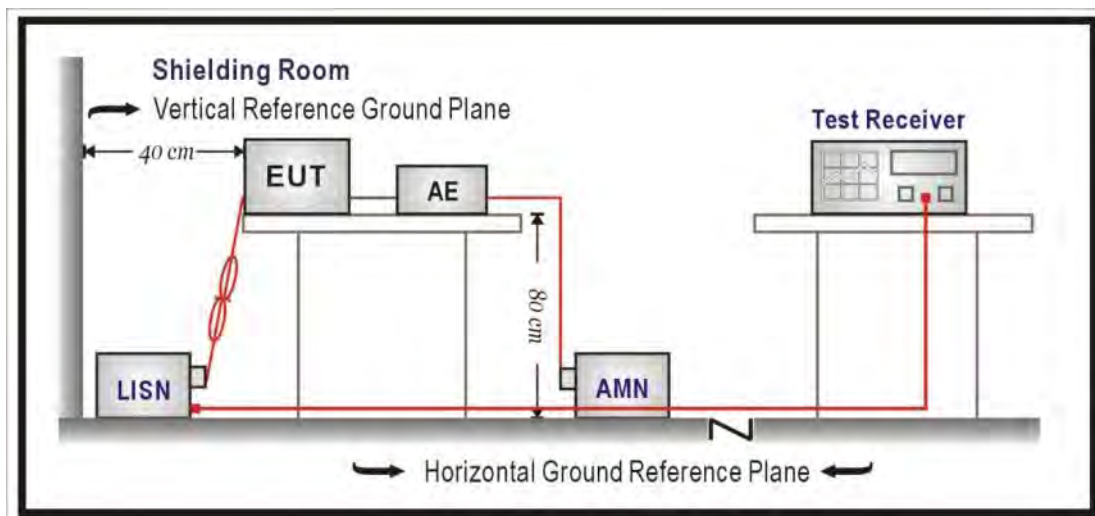


1.10. Uncertainty

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

2. Conducted Emission

2.1. Test Setup



2.2. Limits

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

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

2.3. Test Procedure

The EUT was setup according to ANSI C63.4: 2013 and tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

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

2.4. Test Specification

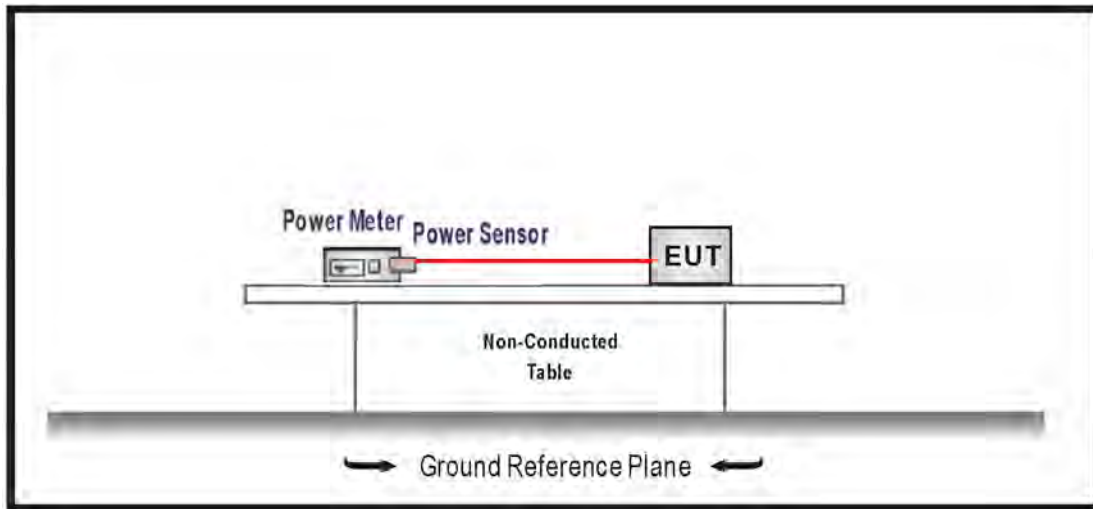
According to FCC Part 15 Subpart C Paragraph 15.207: 2019

2.5. Test Result

Owing to the DC operation of EUT, this test item is not performed.

3. Maximum peak conducted output power

3.1. Test Setup



3.2. Test procedures

The EUT was tested according to DTS test procedure section 8.3.1.3 of KDB 558074 D01 v05r02 & Subclause 11.9.1.3 of ANSI C63.10 Measurement to FCC 47CFR 15.247 requirements.

3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019

3.5. Test Result

Product	Smart Construction Rover		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2020/11/14	Test Site	SR12-H
Temperature(°C)	22	Humidity (%RH)	63

IEEE 802.11b			
Channel No.	Frequency (MHz)	Maximum peak conducted output power (dBm)	Limit (dBm)
		Ant. 0	
1	2412	17.010	≤30
6	2437	16.520	≤30
11	2462	13.240	≤30

The worst emission of data rate is 1 Mbps

IEEE 802.11g			
Channel No.	Frequency (MHz)	Maximum peak conducted output power (dBm)	Limit (dBm)
		Ant. 0	
1	2412	11.310	≤30
6	2437	20.020	≤30
11	2462	12.640	≤30

The worst emission of data rate is 6Mbps

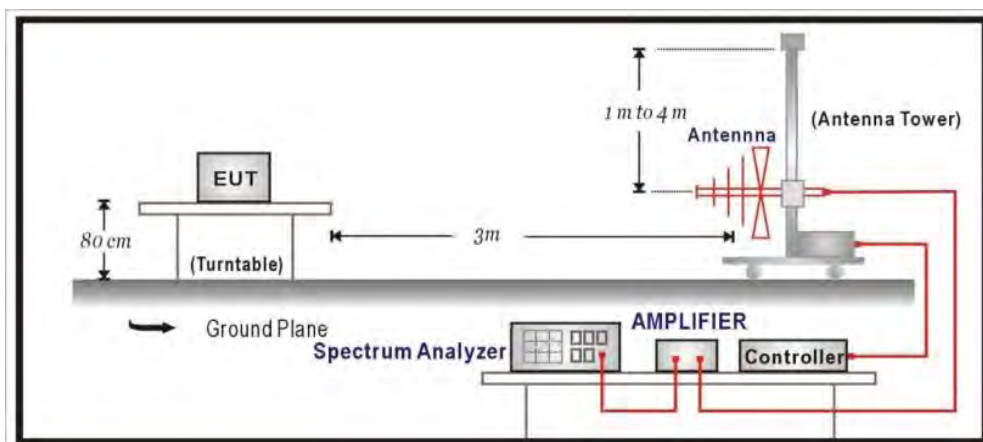
IEEE 802.11n (20M)			
Channel No.	Frequency (MHz)	Maximum peak conducted output power (dBm)	Limit (dBm)
		Ant. 0	
1	2412	11.320	≤30
6	2437	20.030	≤30
11	2462	11.740	≤30

The worst emission of data rate is MCS 0

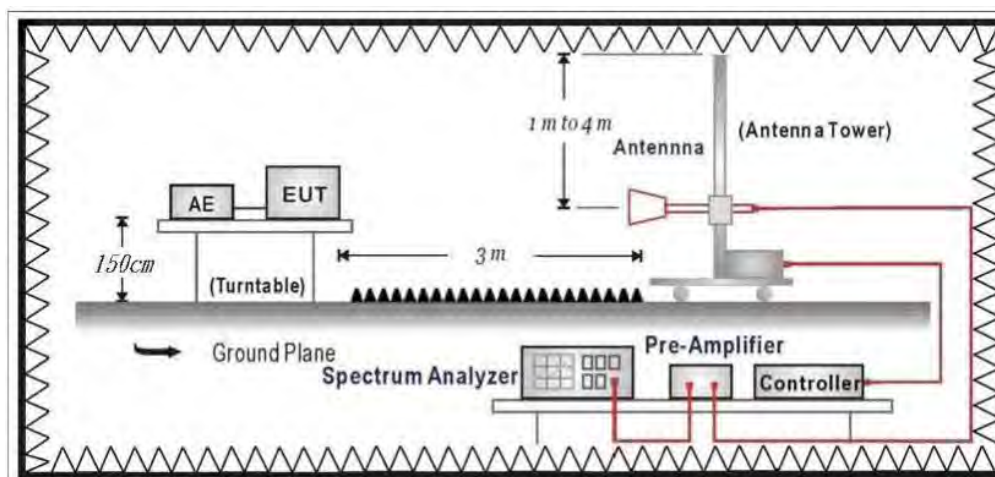
4. Radiated Emission

4.1. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.2. Limits

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

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

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.3. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to DTS test procedure of KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 1.5 meter above ground (under 1GHz) or 1.5 meter above ground (above 1GHz). The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

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

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

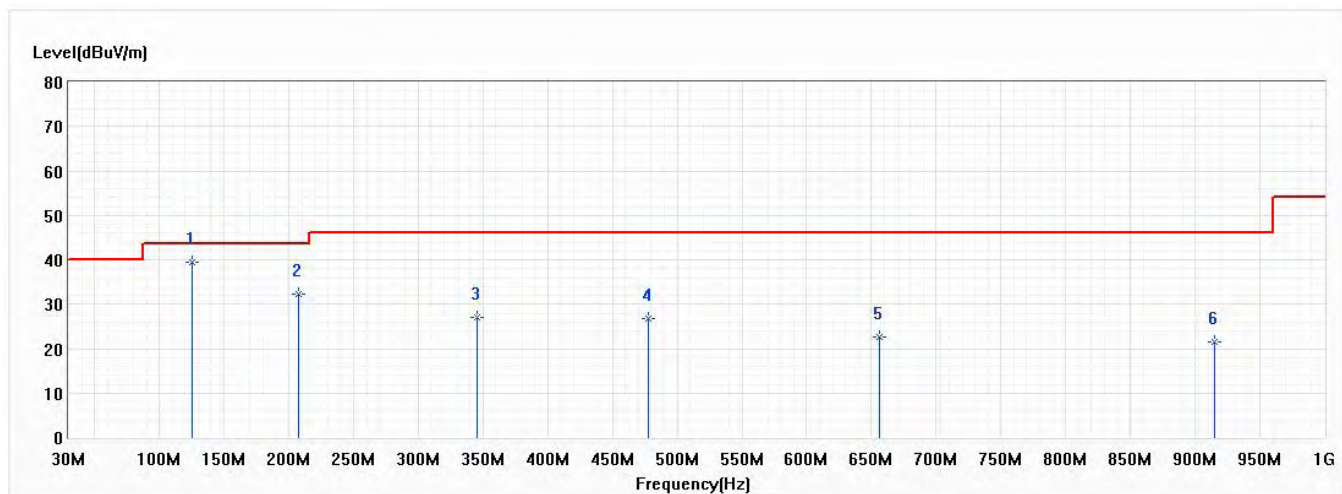
4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019

4.5. Test Result

30MHz-1GHz Spurious

Model No	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

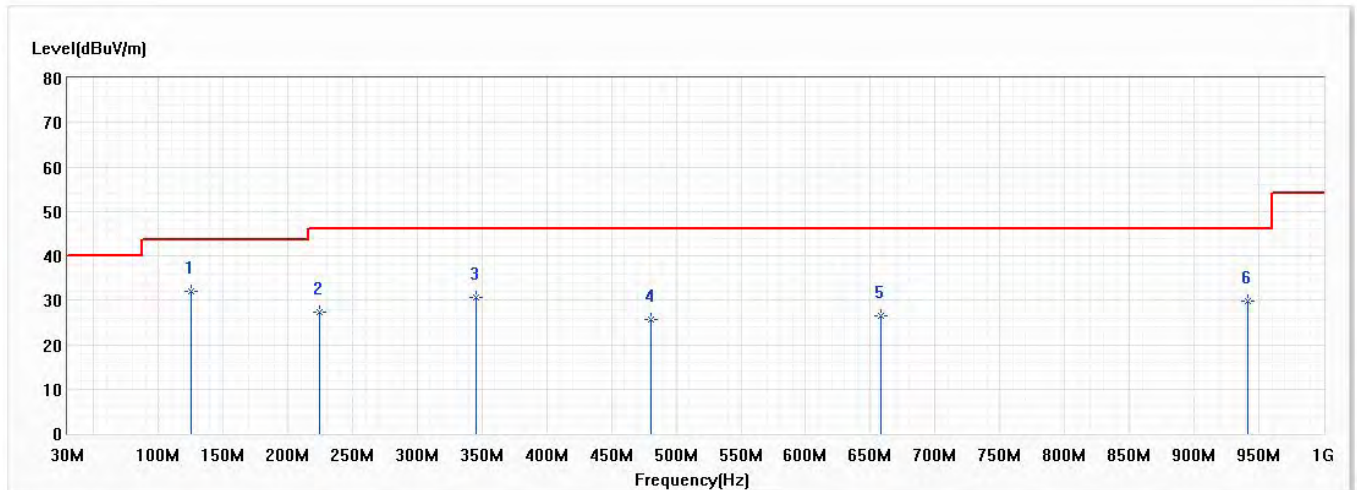


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	125.060	39.48	43.50	-4.02	73.11	-33.63	QP
2	207.995	32.39	43.50	-11.11	67.76	-35.37	QP
3	345.735	26.94	46.00	-19.06	57.70	-30.76	QP
4	477.655	26.70	46.00	-19.30	54.45	-27.75	QP
5	656.135	22.63	46.00	-23.37	48.36	-25.73	QP
6	915.125	21.43	46.00	-24.57	44.31	-22.88	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0



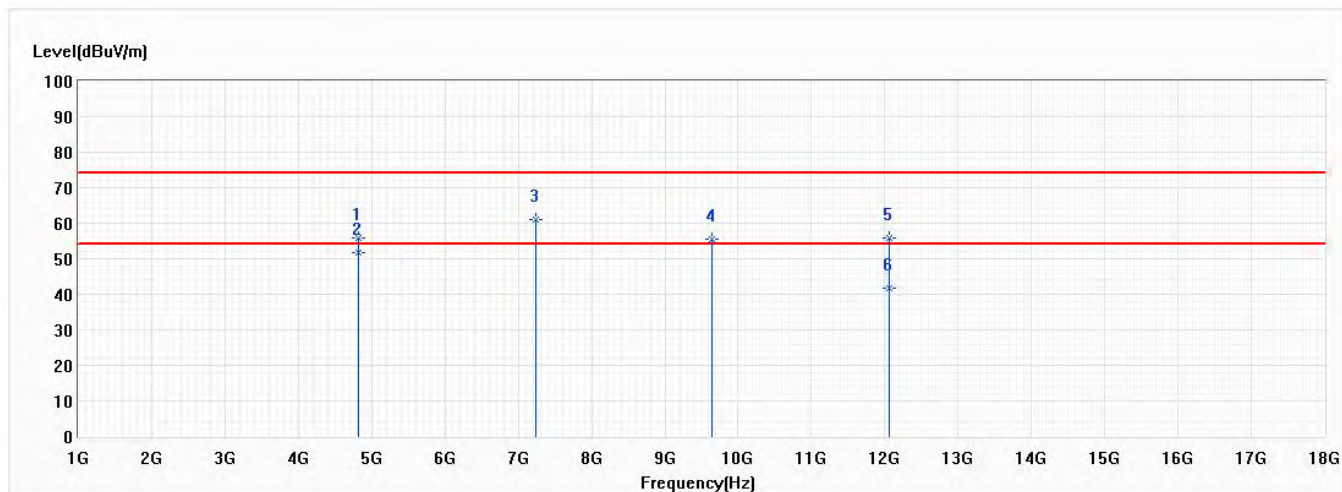
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	125.060	32.09	43.50	-11.41	34.59	-2.50	QP
2	224.970	27.27	46.00	-18.73	30.71	-3.44	QP
3	345.735	30.75	46.00	-15.25	30.48	0.27	QP
4	480.080	25.55	46.00	-20.45	22.11	3.44	QP
5	658.075	26.38	46.00	-19.62	20.70	5.68	QP
6	941.315	29.88	46.00	-16.12	20.61	9.27	QP

Note:

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

Above 1GHz Spurious

Model No	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/9
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11b,Ant0,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

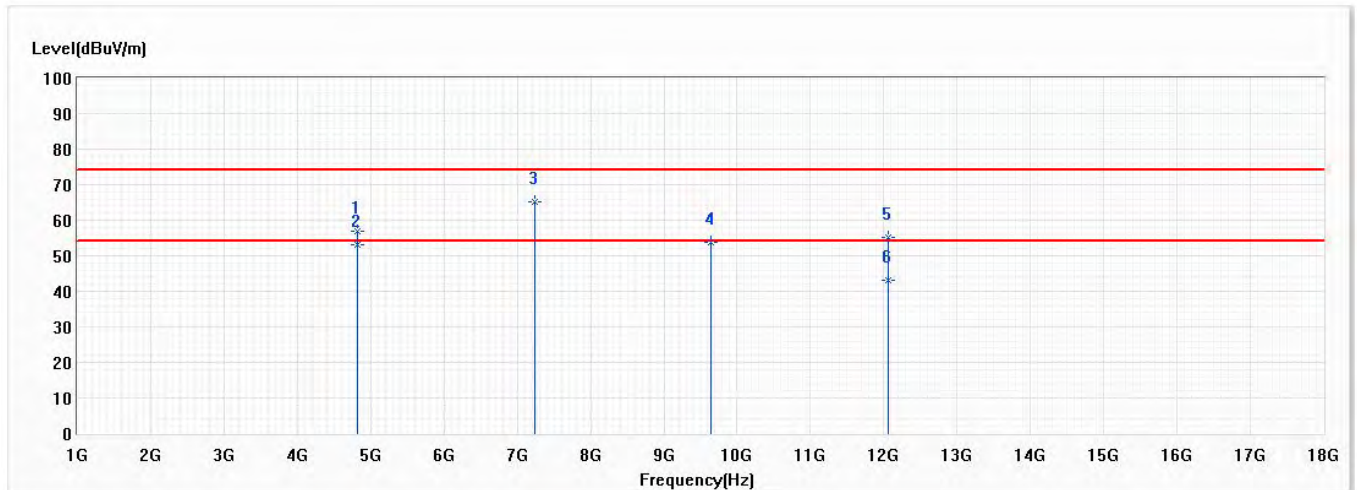


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4824.000	55.73	74.00	-18.27	67.71	-11.98	PK
* 2	4824.000	51.71	54.00	-2.29	63.69	-11.98	AV
3	7236.000	60.94	74.00	-13.06	65.54	-4.60	PK
4	9648.000	55.41	74.00	-18.59	56.72	-1.31	PK
5	12060.000	55.80	74.00	-18.20	53.05	2.75	PK
6	12060.000	41.73	54.00	-12.27	38.98	2.75	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/10
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11b,Ant0,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

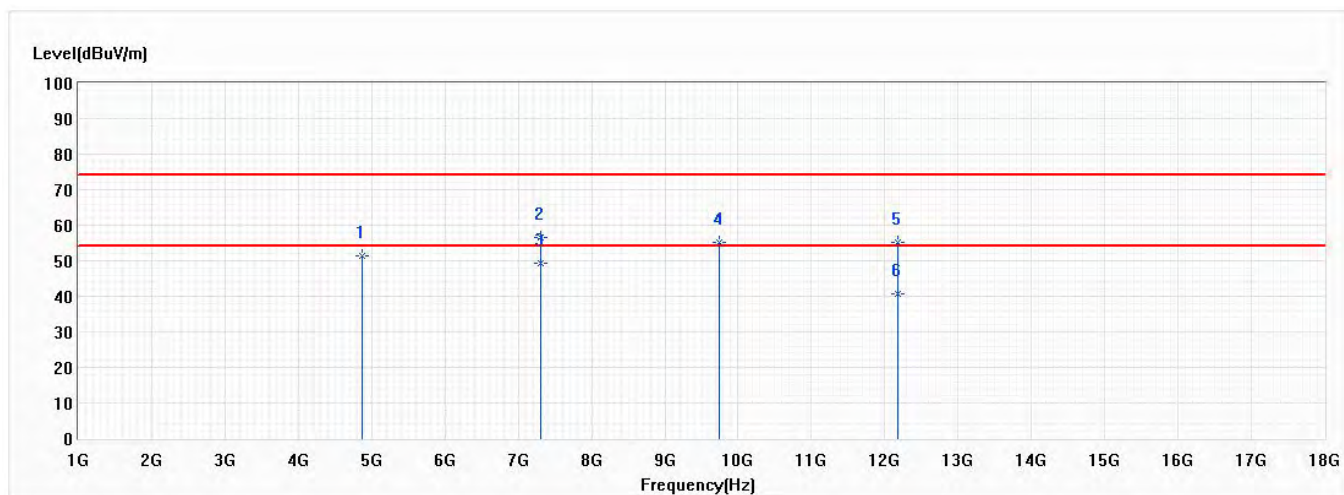


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4824.000	56.86	74.00	-17.14	68.84	-11.98	PK
* 2	4824.000	53.26	54.00	-0.74	65.24	-11.98	AV
3	7236.000	65.03	74.00	-8.97	69.63	-4.60	PK
4	9648.000	53.66	74.00	-20.34	54.97	-1.31	PK
5	12060.000	55.28	74.00	-18.72	52.53	2.75	PK
6	12060.000	43.03	54.00	-10.97	40.28	2.75	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/10
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11b,Ant0,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

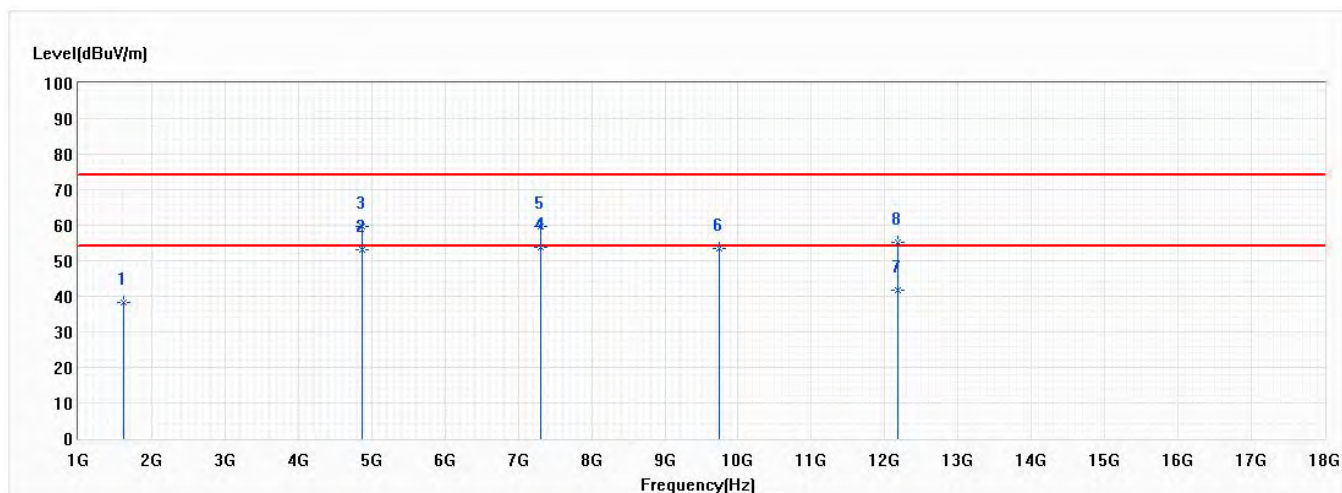


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4874.000	51.36	74.00	-22.64	63.20	-11.84	PK
2	7311.000	56.62	74.00	-17.38	61.00	-4.38	PK
* 3	7311.000	49.19	54.00	-4.81	53.57	-4.38	AV
4	9748.000	55.02	74.00	-18.98	56.29	-1.27	PK
5	12185.000	55.12	74.00	-18.88	52.52	2.60	PK
6	12185.000	40.75	54.00	-13.25	38.15	2.60	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/10
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11b,Ant0,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

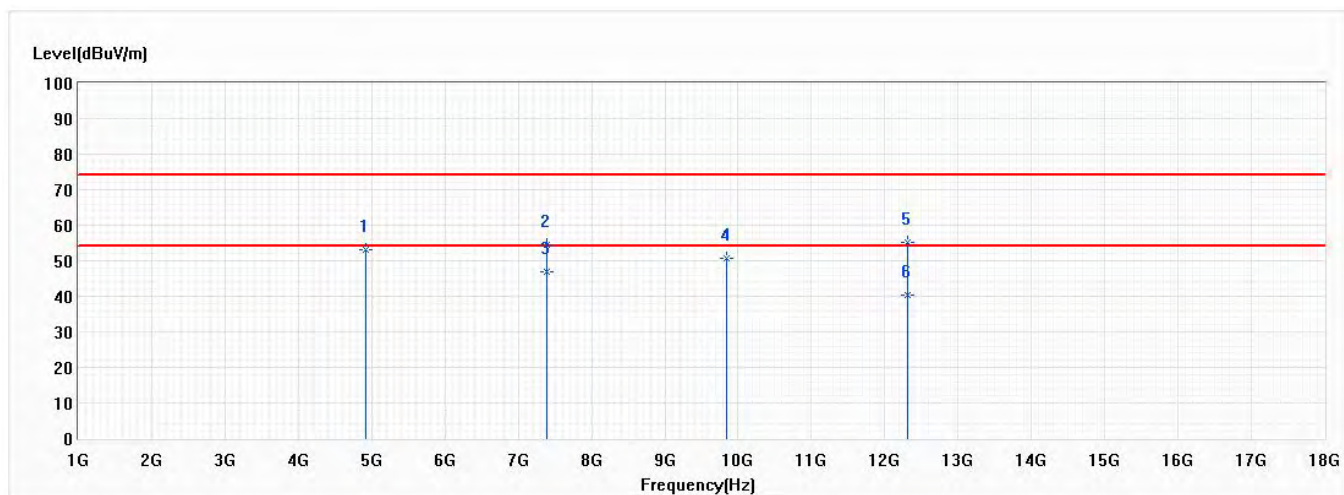


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	1624.600	38.16	74.00	-35.84	61.92	-23.76	PK
2	4874.000	53.08	54.00	-0.92	64.92	-11.84	AV
3	4874.000	59.72	74.00	-14.28	71.56	-11.84	PK
* 4	7311.000	53.93	54.00	-0.07	58.31	-4.38	AV
5	7311.000	59.72	74.00	-14.28	64.10	-4.38	PK
6	9748.000	53.33	74.00	-20.67	54.60	-1.27	PK
7	12185.000	41.82	54.00	-12.18	39.22	2.60	AV
8	12185.000	55.15	74.00	-18.85	52.55	2.60	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/10
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11b,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

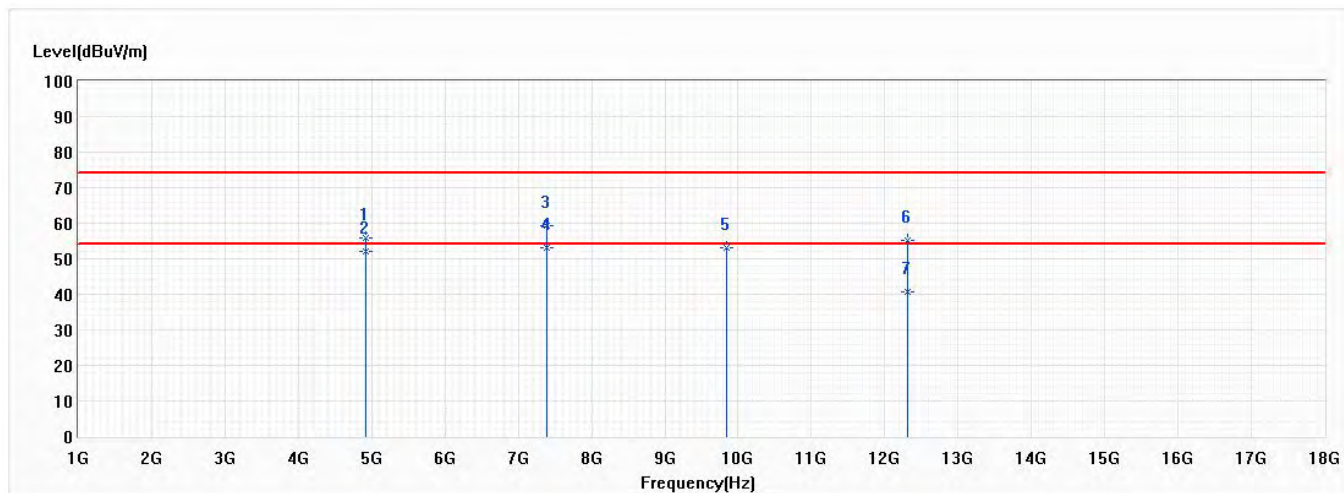


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4924.000	53.14	74.00	-20.86	64.84	-11.70	PK
2	7386.000	54.36	74.00	-19.64	58.53	-4.17	PK
* 3	7386.000	46.89	54.00	-7.11	51.06	-4.17	AV
4	9848.000	50.58	74.00	-23.42	51.80	-1.22	PK
5	12310.000	55.16	74.00	-18.84	52.70	2.46	PK
6	12310.000	40.46	54.00	-13.54	38.00	2.46	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/10
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11b,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

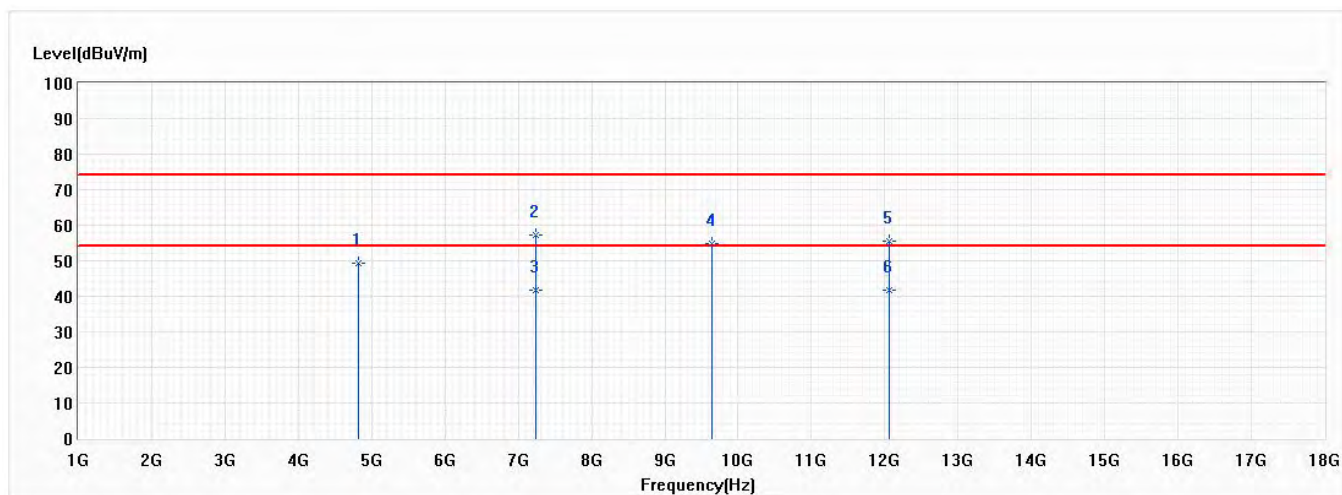


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4924.000	55.89	74.00	-18.11	67.59	-11.70	PK
2	4924.000	52.15	54.00	-1.85	63.85	-11.70	AV
3	7386.000	59.37	74.00	-14.63	63.54	-4.17	PK
* 4	7386.000	52.95	54.00	-1.05	57.12	-4.17	AV
5	9848.000	52.95	74.00	-21.05	54.17	-1.22	PK
6	12310.000	55.34	74.00	-18.66	52.88	2.46	PK
7	12310.000	40.82	54.00	-13.18	38.36	2.46	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/10
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11g,Ant0,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

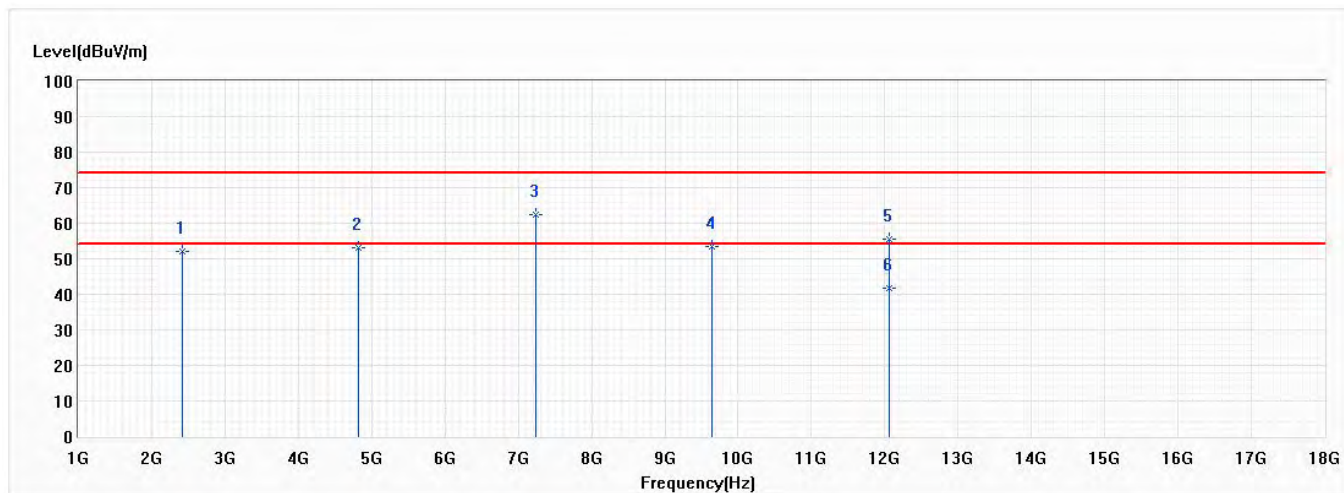


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4824.000	49.28	74.00	-24.72	61.26	-11.98	PK
2	7236.000	57.30	74.00	-16.70	61.90	-4.60	PK
3	7236.000	41.70	54.00	-12.30	46.30	-4.60	AV
4	9648.000	54.96	74.00	-19.04	56.27	-1.31	PK
5	12060.000	55.56	74.00	-18.44	52.81	2.75	PK
* 6	12060.000	41.83	54.00	-12.17	39.08	2.75	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/10
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11g,Ant0,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

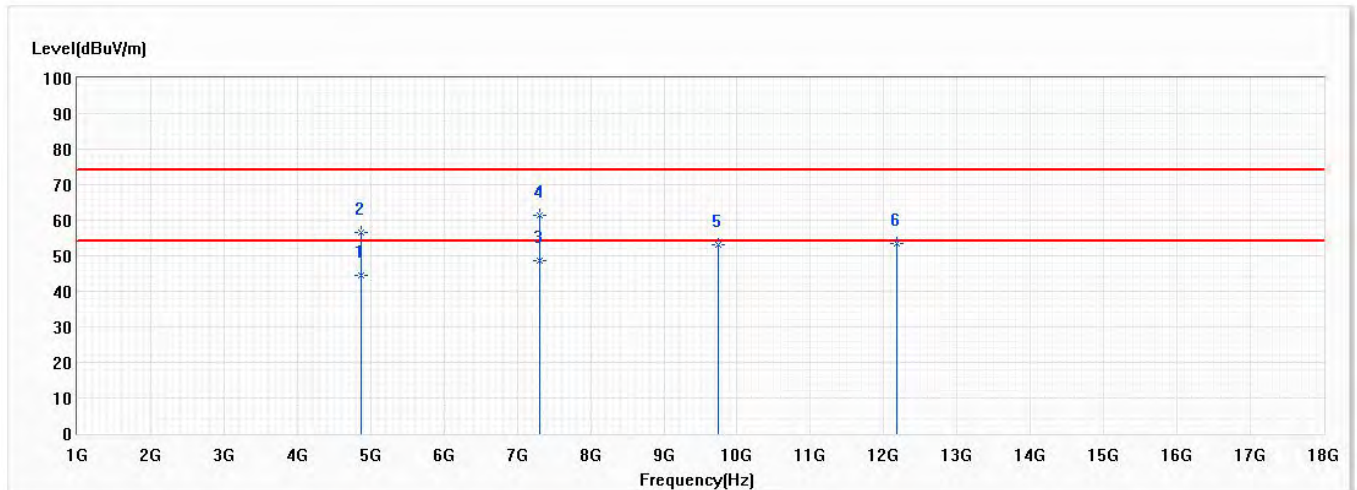


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2412.000	52.21	74.00	-21.79	72.31	-20.10	PK
2	4824.000	53.20	74.00	-20.80	65.18	-11.98	PK
* 3	7236.000	62.43	74.00	-11.57	67.03	-4.60	PK
4	9648.000	53.61	74.00	-20.39	54.92	-1.31	PK
5	12060.000	55.67	74.00	-18.33	52.92	2.75	PK
6	12060.000	41.68	54.00	-12.32	38.93	2.75	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/10
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11g,Ant0,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

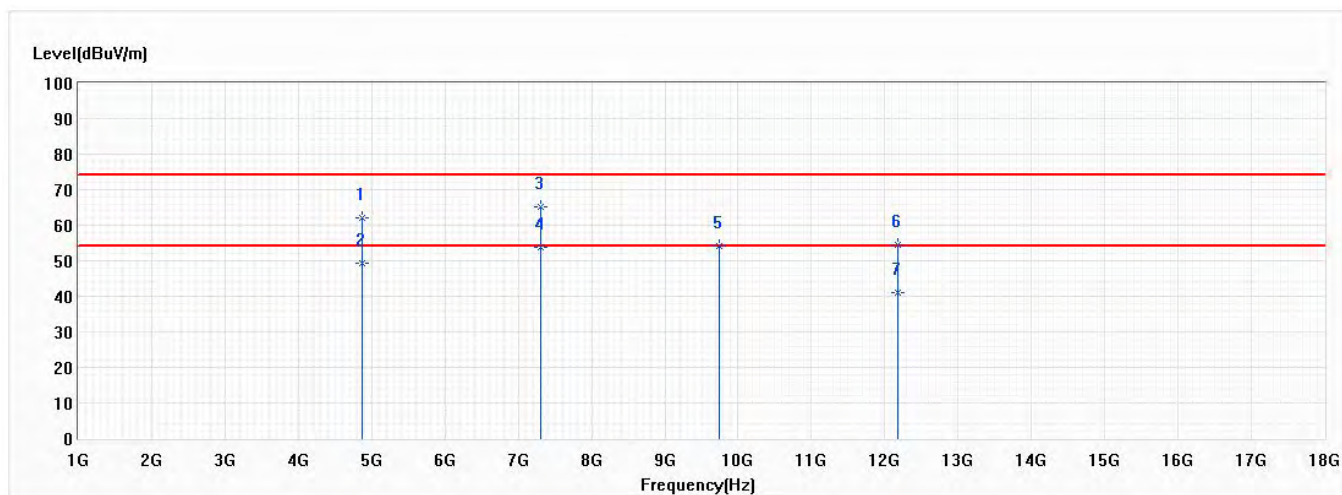


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4874.000	44.45	54.00	-9.55	56.29	-11.84	AV
2	4874.000	56.63	74.00	-17.37	68.47	-11.84	PK
* 3	7311.000	48.66	54.00	-5.34	53.04	-4.38	AV
4	7311.000	61.49	74.00	-12.51	65.87	-4.38	PK
5	9748.000	52.94	74.00	-21.06	54.21	-1.27	PK
6	12185.000	53.44	74.00	-20.56	50.84	2.60	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/10
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11g,Ant0,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

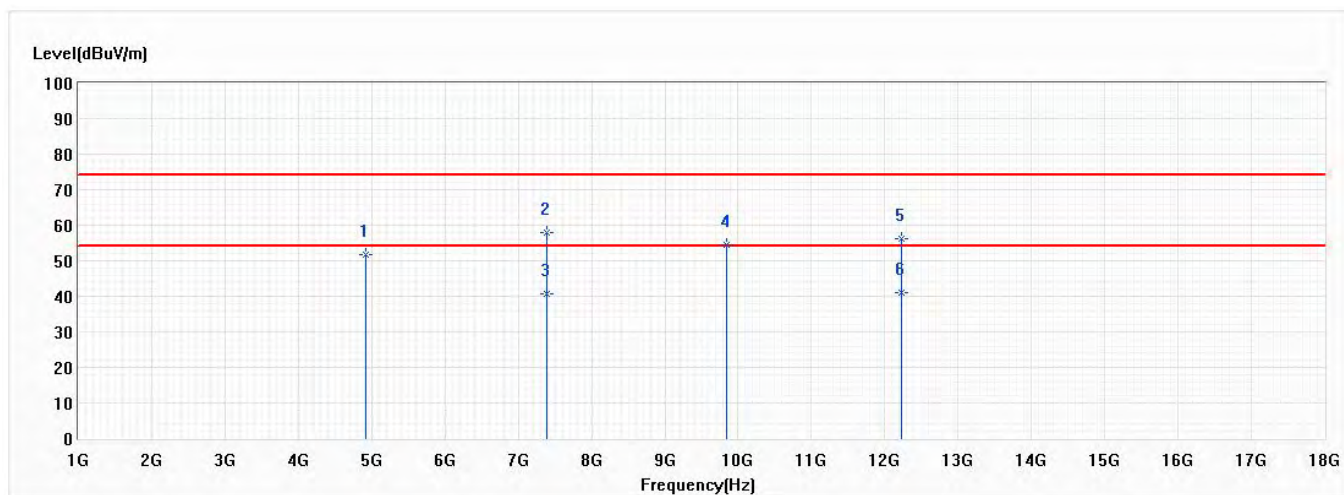


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4874.000	62.03	74.00	-11.97	73.87	-11.84	PK
2	4874.000	49.20	54.00	-4.80	61.04	-11.84	AV
3	7311.000	65.07	74.00	-8.93	69.45	-4.38	PK
* 4	7311.000	53.68	54.00	-0.32	58.06	-4.38	AV
5	9748.000	54.27	74.00	-19.73	55.54	-1.27	PK
6	12185.000	54.45	74.00	-19.55	51.85	2.60	PK
7	12185.000	41.15	54.00	-12.85	38.55	2.60	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/10
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11g,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

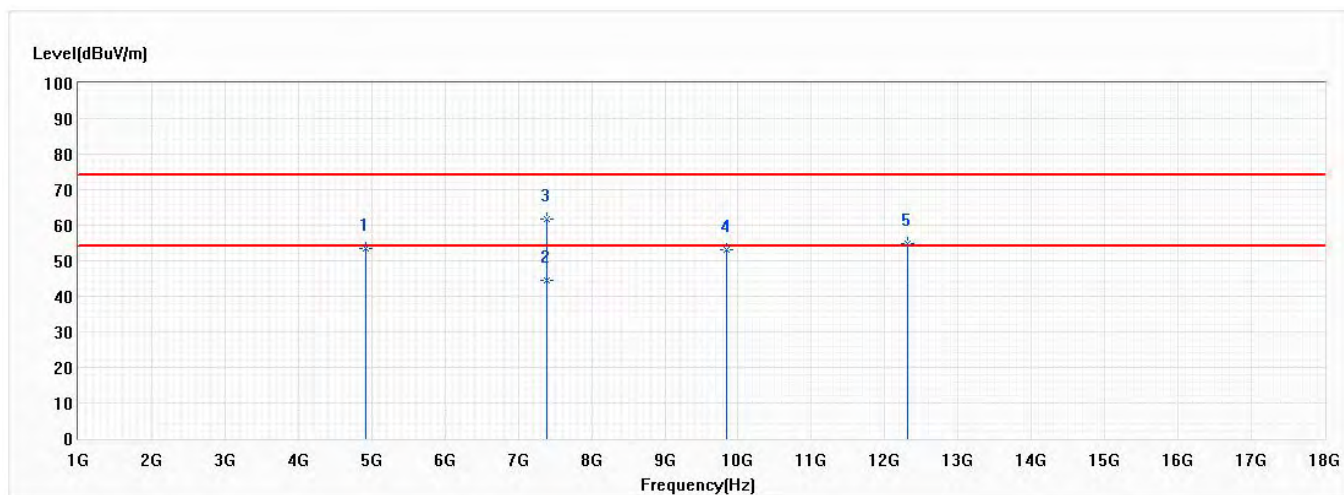


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4924.000	51.83	74.00	-22.17	63.53	-11.70	PK
2	7386.000	57.84	74.00	-16.16	62.01	-4.17	PK
3	7386.000	40.73	54.00	-13.27	44.90	-4.17	AV
4	9848.000	54.36	74.00	-19.64	55.58	-1.22	PK
5	12231.000	56.23	74.00	-17.77	53.69	2.54	PK
* 6	12231.000	41.04	54.00	-12.96	38.50	2.54	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/10
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11g,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

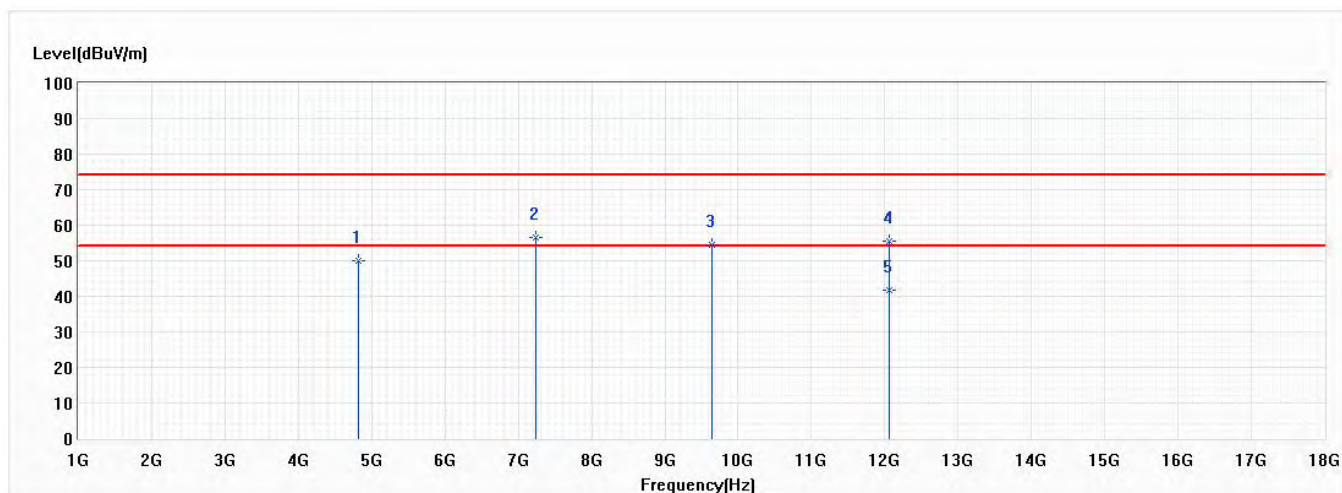


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4924.000	53.35	74.00	-20.65	65.05	-11.70	PK
* 2	7386.000	44.53	54.00	-9.47	48.70	-4.17	AV
3	7386.000	61.62	74.00	-12.38	65.79	-4.17	PK
4	9848.000	53.02	74.00	-20.98	54.24	-1.22	PK
5	12310.000	54.85	74.00	-19.15	52.39	2.46	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

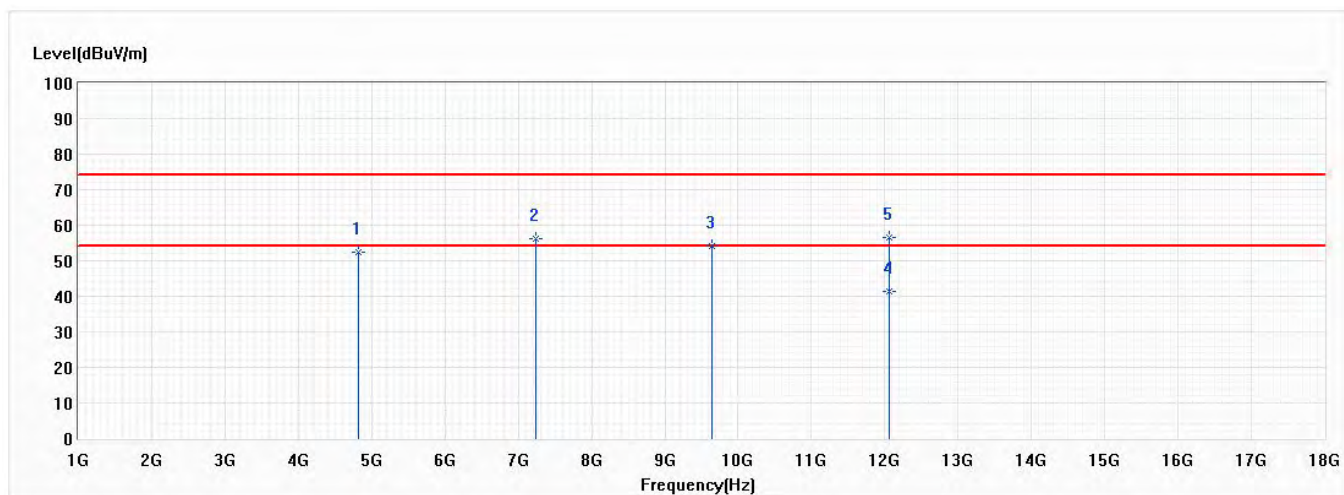


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4824.000	50.12	74.00	-23.88	62.10	-11.98	PK
2	7236.000	56.72	74.00	-17.28	61.32	-4.60	PK
3	9648.000	54.58	74.00	-19.42	55.89	-1.31	PK
4	12060.000	55.61	74.00	-18.39	52.86	2.75	PK
* 5	12060.000	41.68	54.00	-12.32	38.93	2.75	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

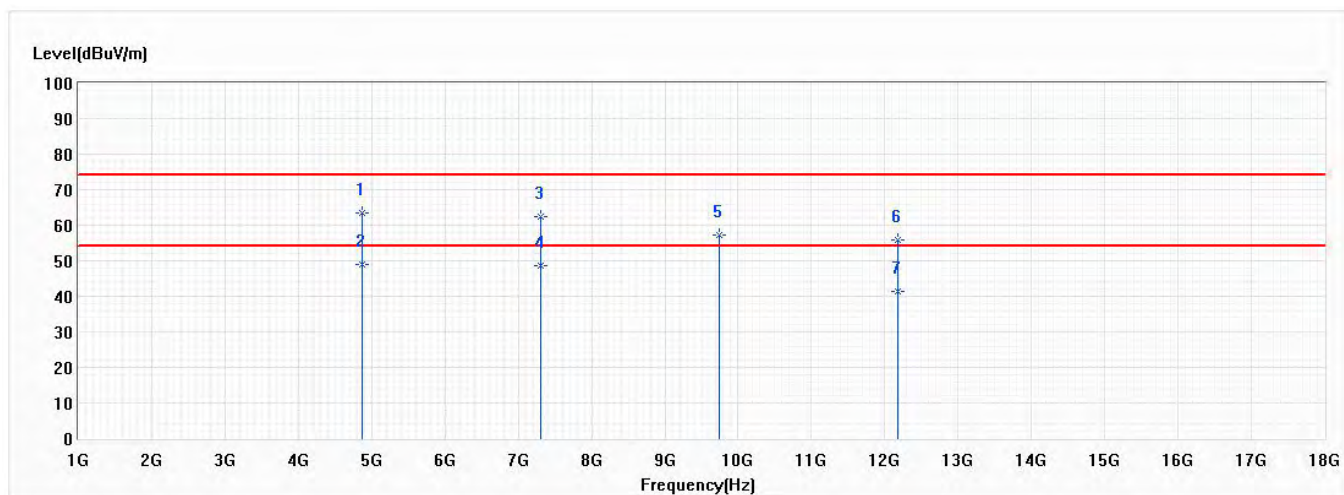


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4824.000	52.47	74.00	-21.53	64.45	-11.98	PK
2	7236.000	56.07	74.00	-17.93	60.67	-4.60	PK
3	9648.000	54.06	74.00	-19.94	55.37	-1.31	PK
* 4	12060.000	41.38	54.00	-12.62	38.63	2.75	AV
5	12060.000	56.68	74.00	-17.32	53.93	2.75	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

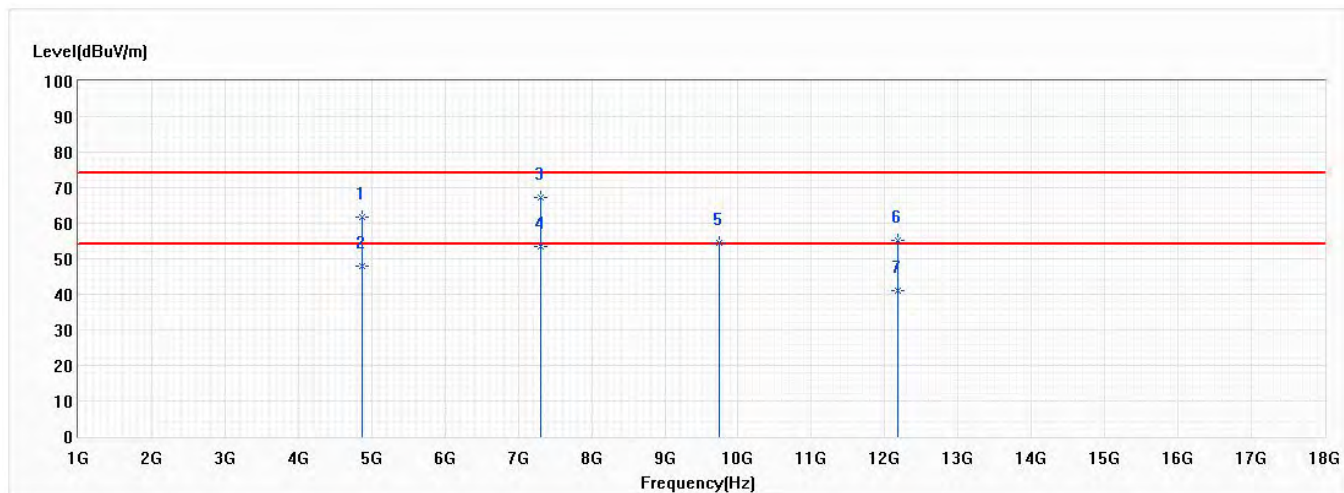


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4874.000	63.33	74.00	-10.67	75.17	-11.84	PK
* 2	4874.000	49.02	54.00	-4.98	60.86	-11.84	AV
3	7311.000	62.58	74.00	-11.42	66.96	-4.38	PK
4	7311.000	48.57	54.00	-5.43	52.95	-4.38	AV
5	9748.000	57.08	74.00	-16.92	58.35	-1.27	PK
6	12185.000	55.83	74.00	-18.17	53.23	2.60	PK
7	12185.000	41.22	54.00	-12.78	38.62	2.60	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

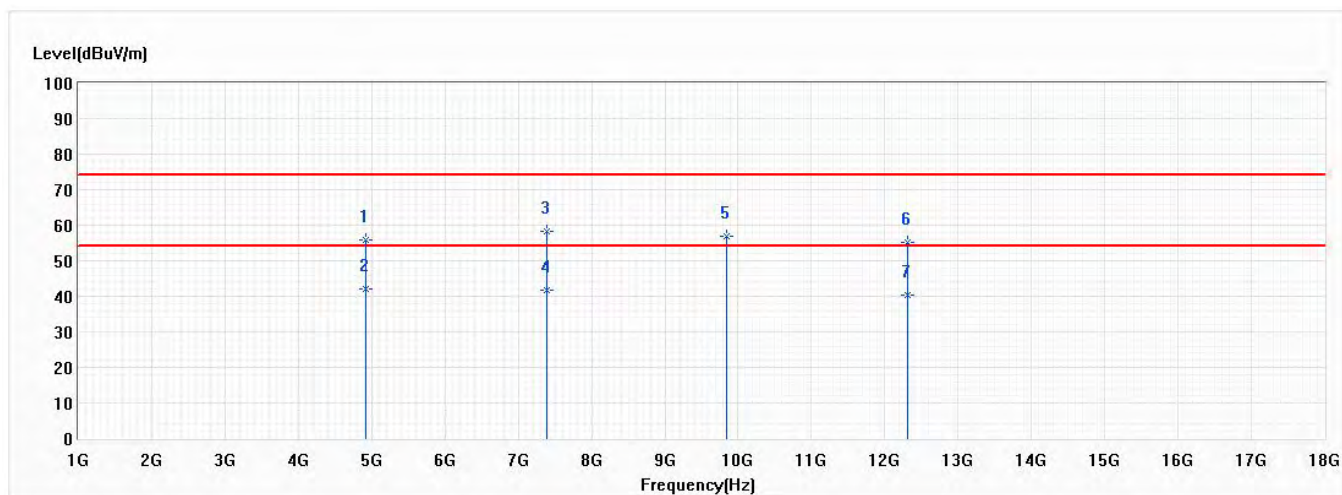


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4874.000	61.73	74.00	-12.27	73.57	-11.84	PK
2	4874.000	47.78	54.00	-6.22	59.62	-11.84	AV
3	7311.000	67.14	74.00	-6.86	71.52	-4.38	PK
* 4	7311.000	53.48	54.00	-0.52	57.86	-4.38	AV
5	9748.000	54.54	74.00	-19.46	55.81	-1.27	PK
6	12185.000	55.11	74.00	-18.89	52.51	2.60	PK
7	12185.000	41.17	54.00	-12.83	38.57	2.60	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

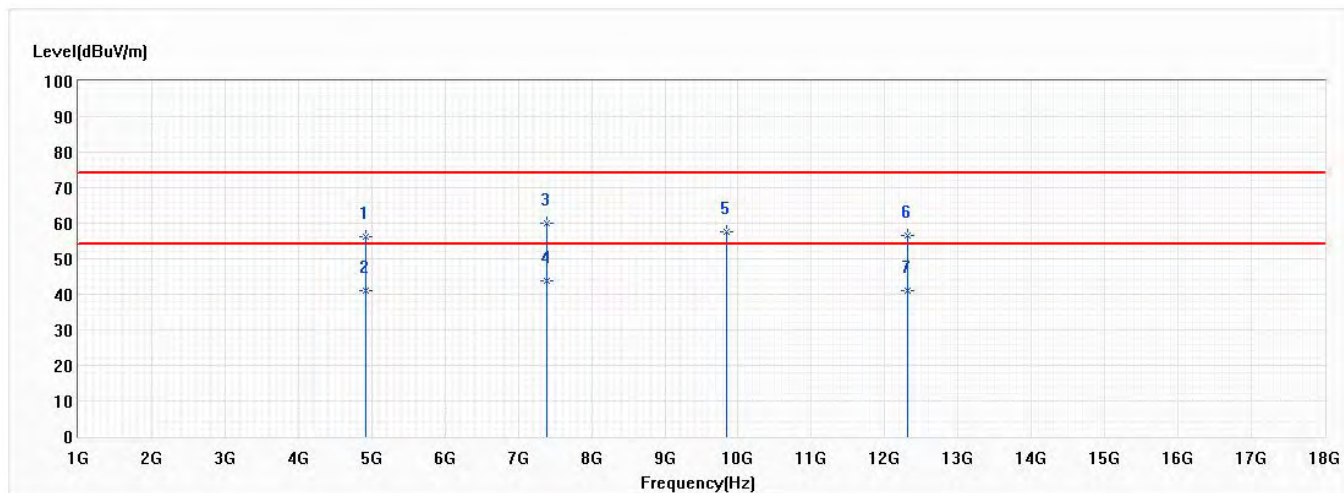


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4924.000	55.72	74.00	-18.28	67.42	-11.70	PK
* 2	4924.000	41.94	54.00	-12.06	53.64	-11.70	AV
3	7386.000	58.24	74.00	-15.76	62.41	-4.17	PK
4	7386.000	41.56	54.00	-12.44	45.73	-4.17	AV
5	9848.000	56.84	74.00	-17.16	58.06	-1.22	PK
6	12310.000	55.30	74.00	-18.70	52.84	2.46	PK
7	12310.000	40.18	54.00	-13.82	37.72	2.46	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4924.000	56.23	74.00	-17.77	67.93	-11.70	PK
2	4924.000	41.02	54.00	-12.98	52.72	-11.70	AV
3	7386.000	60.15	74.00	-13.85	64.32	-4.17	PK
* 4	7386.000	43.68	54.00	-10.32	47.85	-4.17	AV
5	9848.000	57.56	74.00	-16.44	58.78	-1.22	PK
6	12310.000	56.41	74.00	-17.59	53.95	2.46	PK
7	12310.000	40.88	54.00	-13.12	38.42	2.46	AV

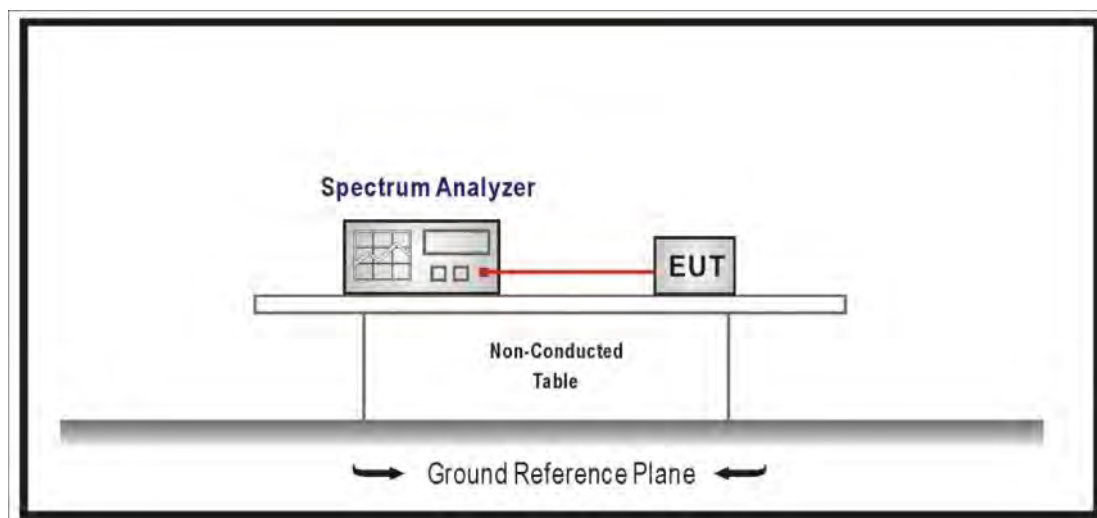
Note:

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

5. RF antenna conducted test

5.1. Test Setup

RF Antenna Conducted Measurement:



5.2. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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 an RF conducted or radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure section 11.2 of KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.4. Test Specification

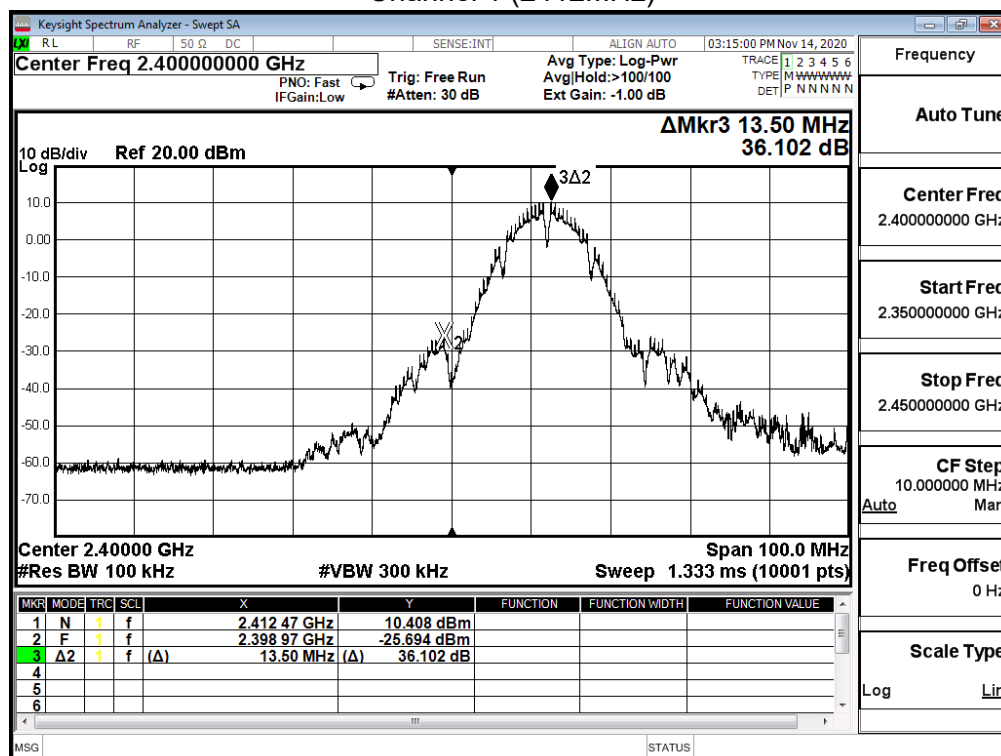
According to FCC Part 15 Subpart C Paragraph 15.247: 2019

5.5. Test Result

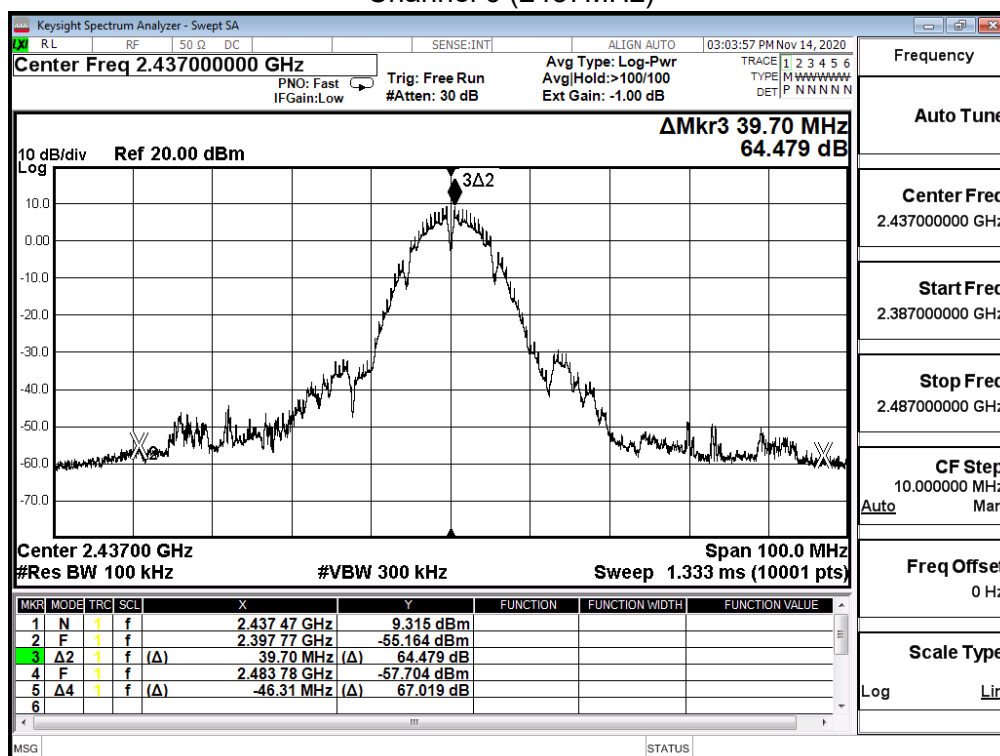
Product	Smart Construction Rover		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2020/11/14	Test Site	SR12-H
Temperature(°C)	22	Humidity (%RH)	63

IEEE 802.11b (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	36.102	≥ 30	Pass
6	2437	58.549	≥ 30	Pass
11	2462	56.654	≥ 30	Pass

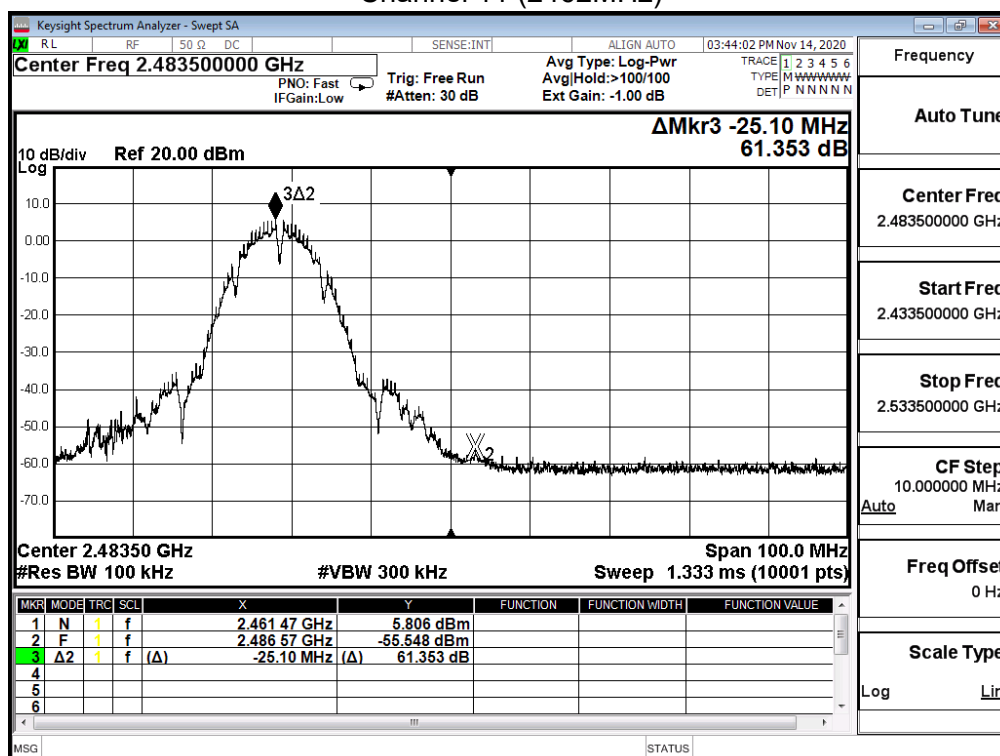
Channel 1 (2412MHz)



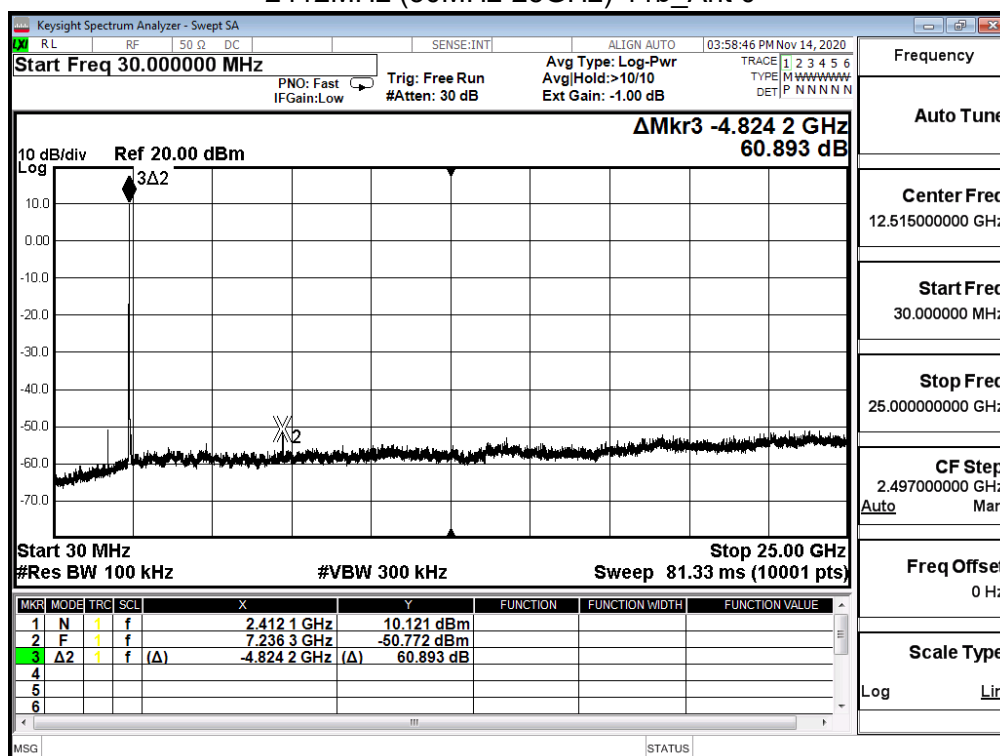
Channel 6 (2437MHz)



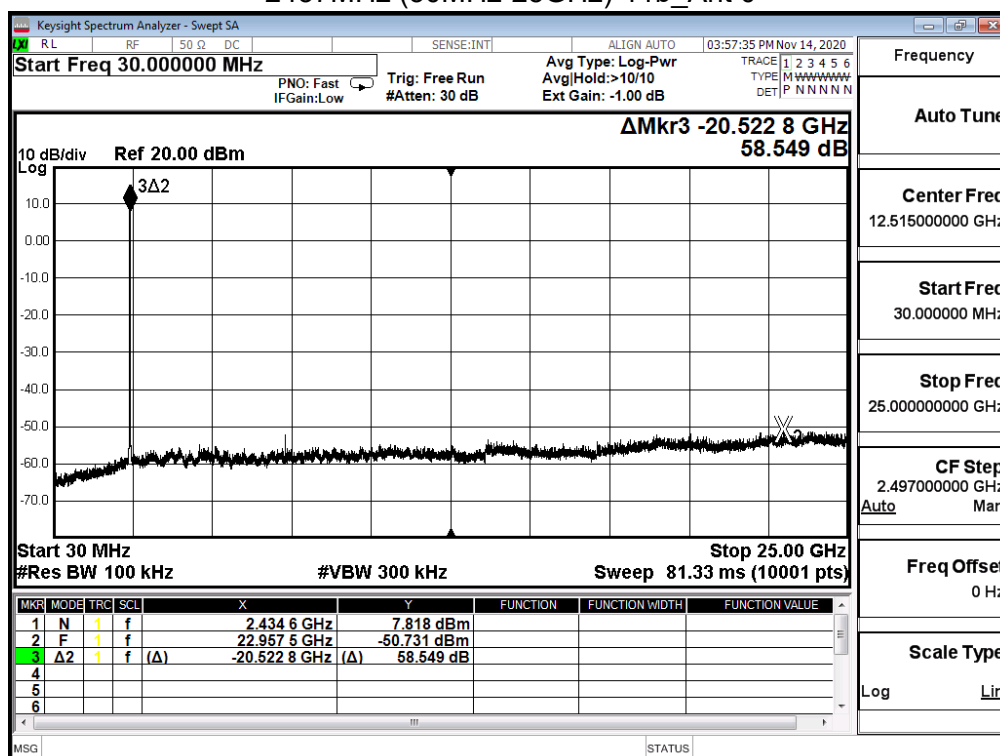
Channel 11 (2462MHz)



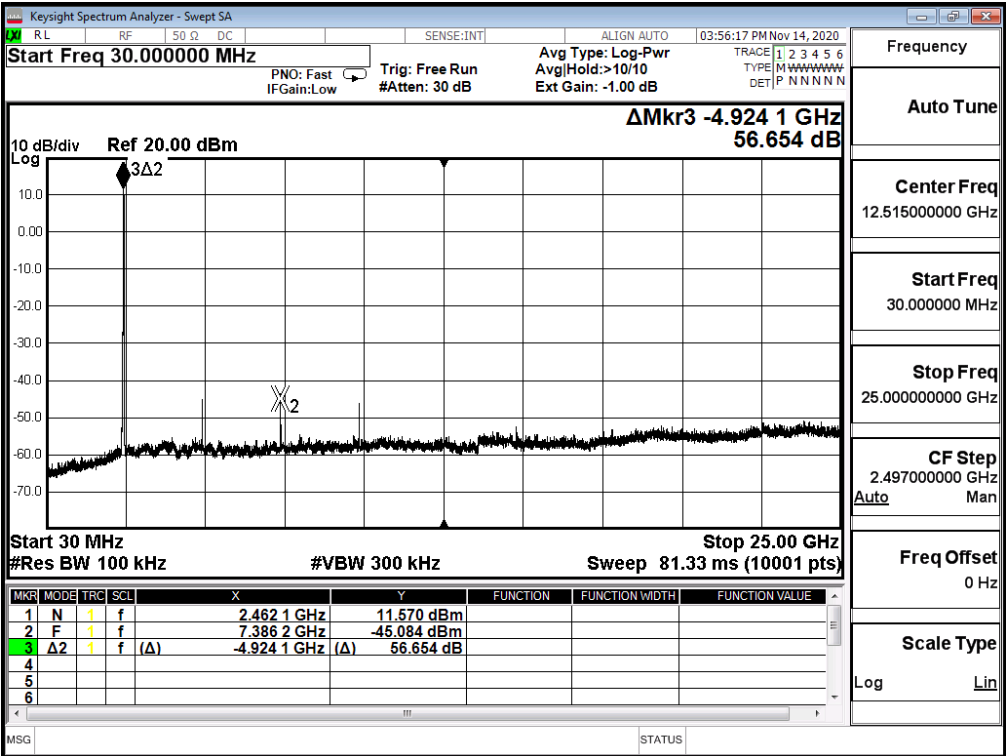
2412MHz (30MHz-25GHz)-11b_Ant 0



2437MHz (30MHz-25GHz)-11b_Ant 0



2462MHz (30MHz-25GHz)-11b_Ant 0

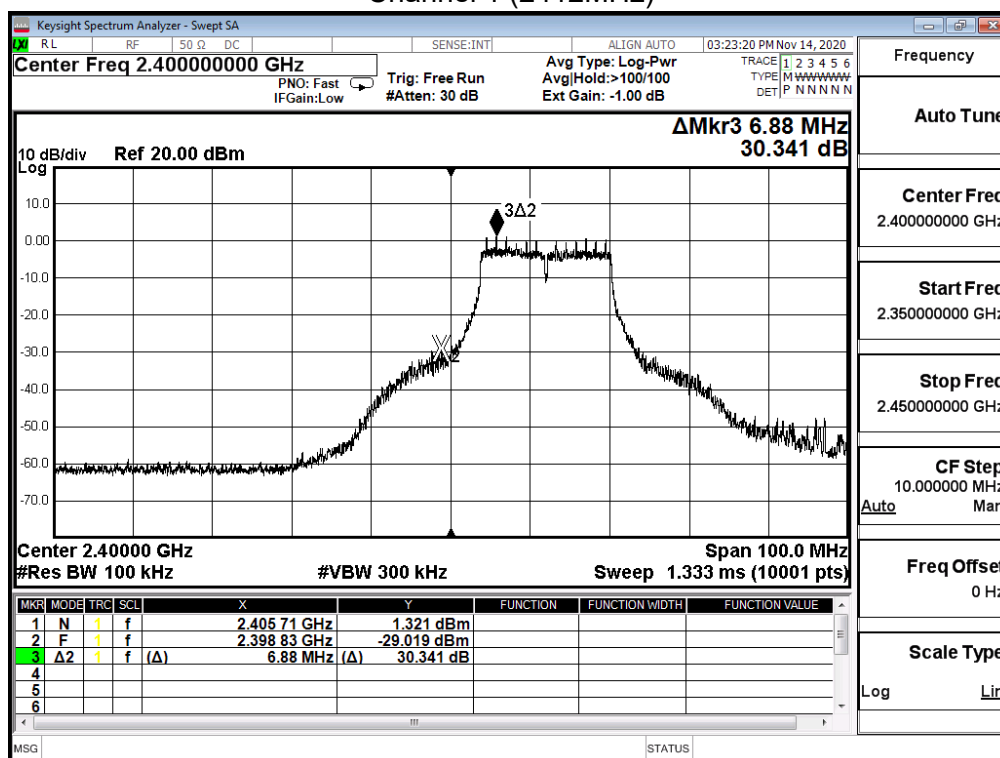


Product	Smart Construction Rover		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2020/11/14	Test Site	SR12-H
Temperature(°C)	22	Humidity (%RH)	63

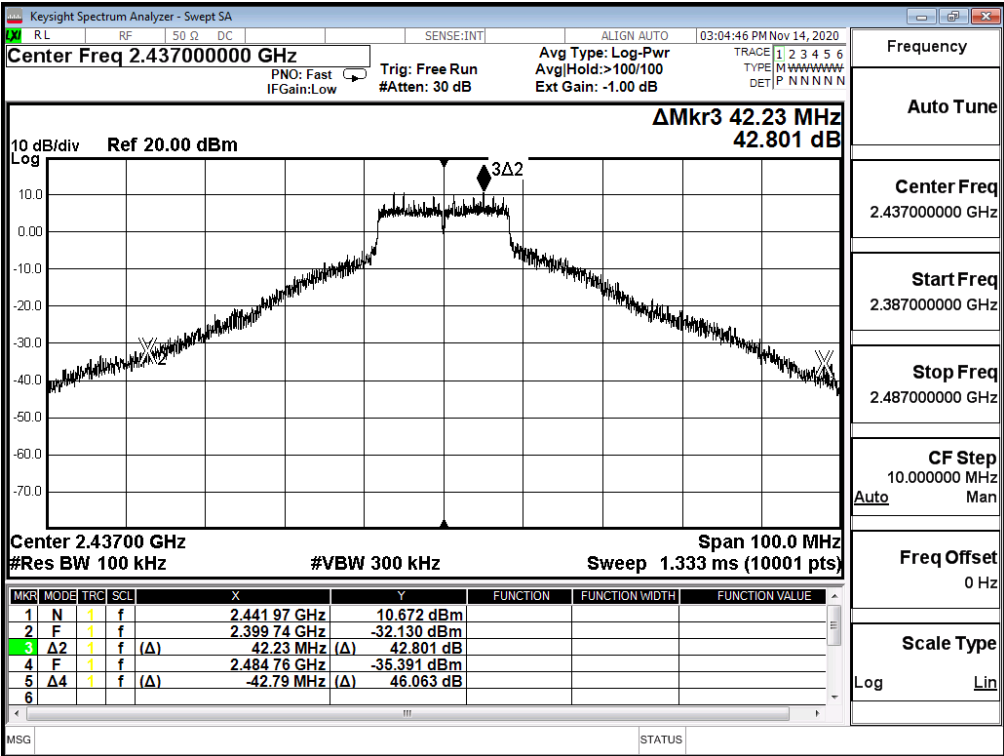
IEEE 802.11g (ANT 0)

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	30.341	≥ 30	Pass
6	2437	42.801	≥ 30	Pass
11	2462	39.123	≥ 30	Pass

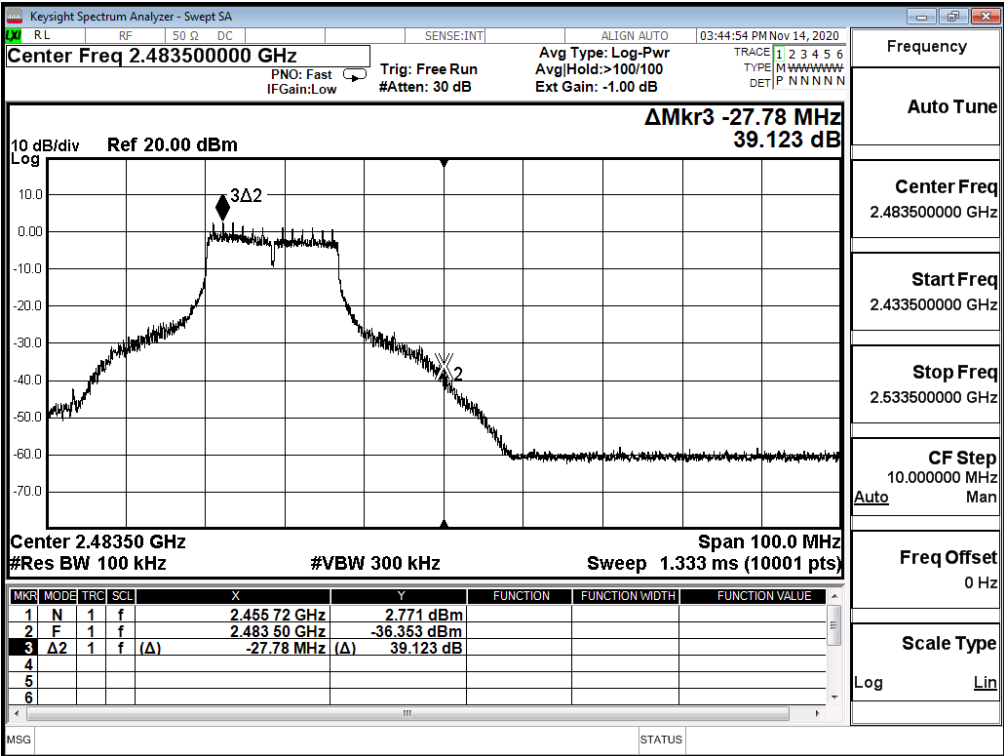
Channel 1 (2412MHz)



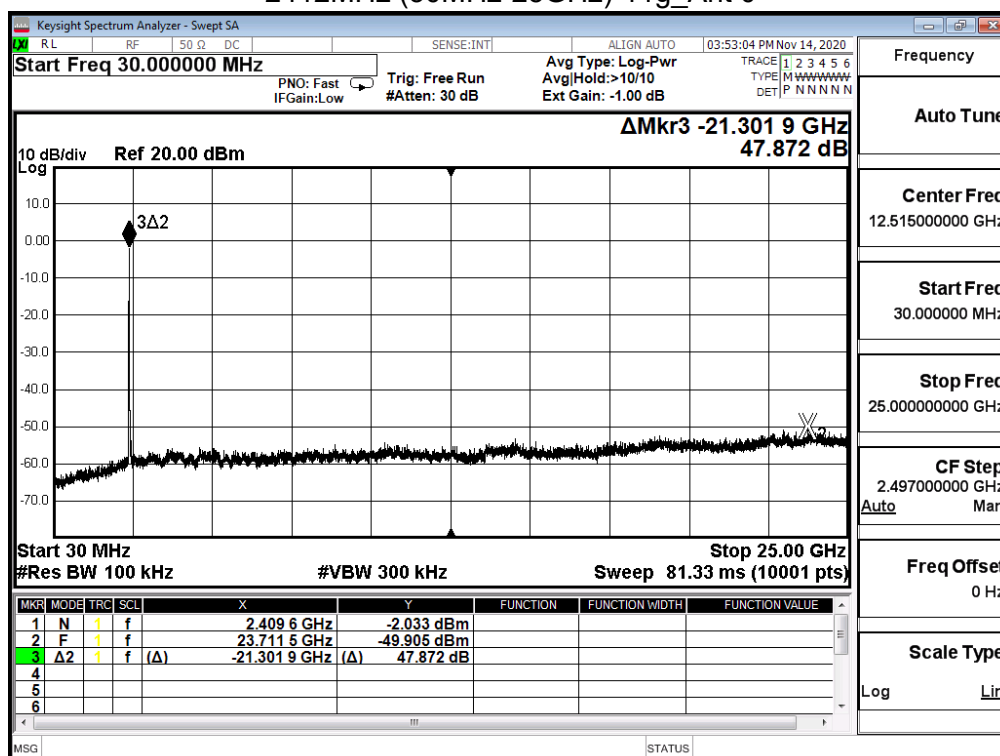
Channel 6 (2437MHz)



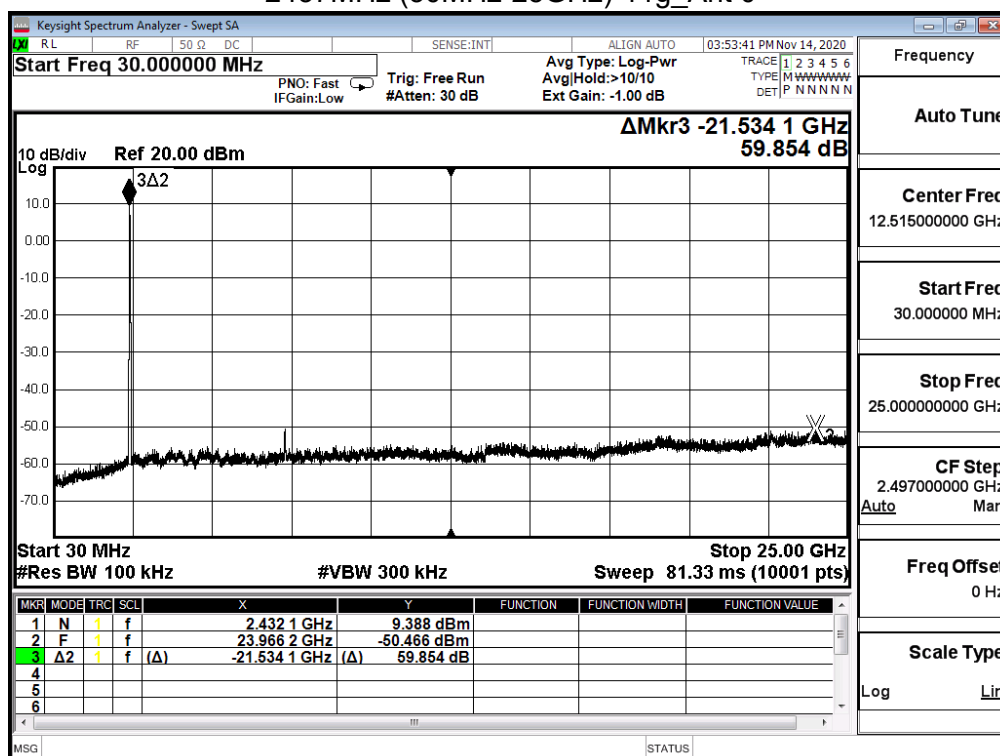
Channel 11 (2462MHz)



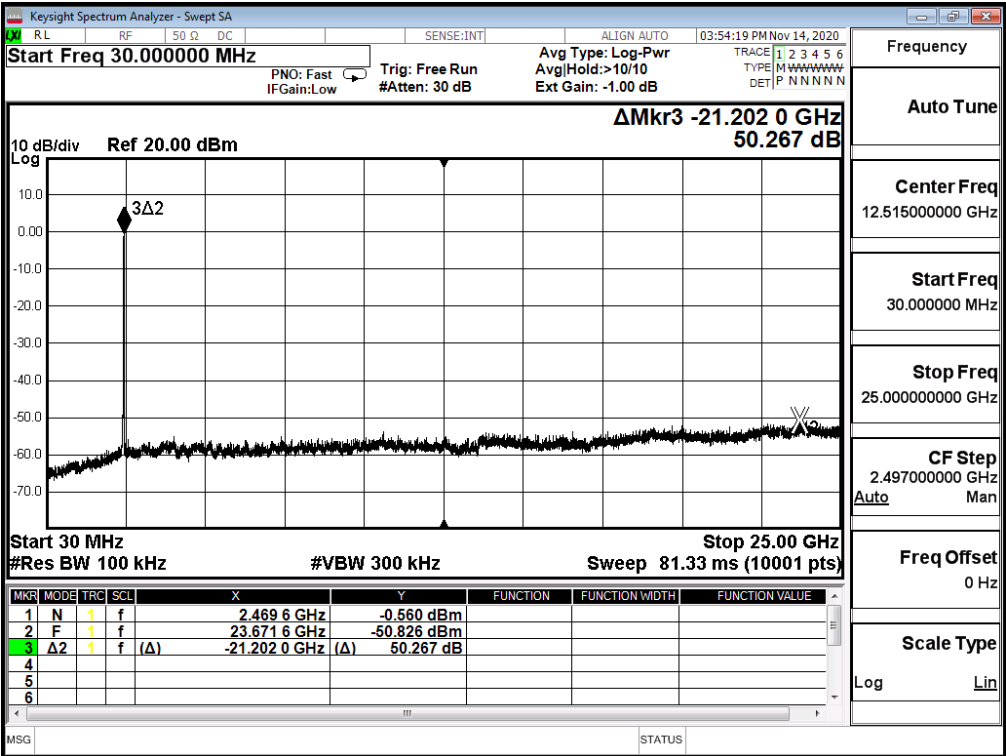
2412MHz (30MHz-25GHz)-11g_Ant 0



2437MHz (30MHz-25GHz)-11g_Ant 0



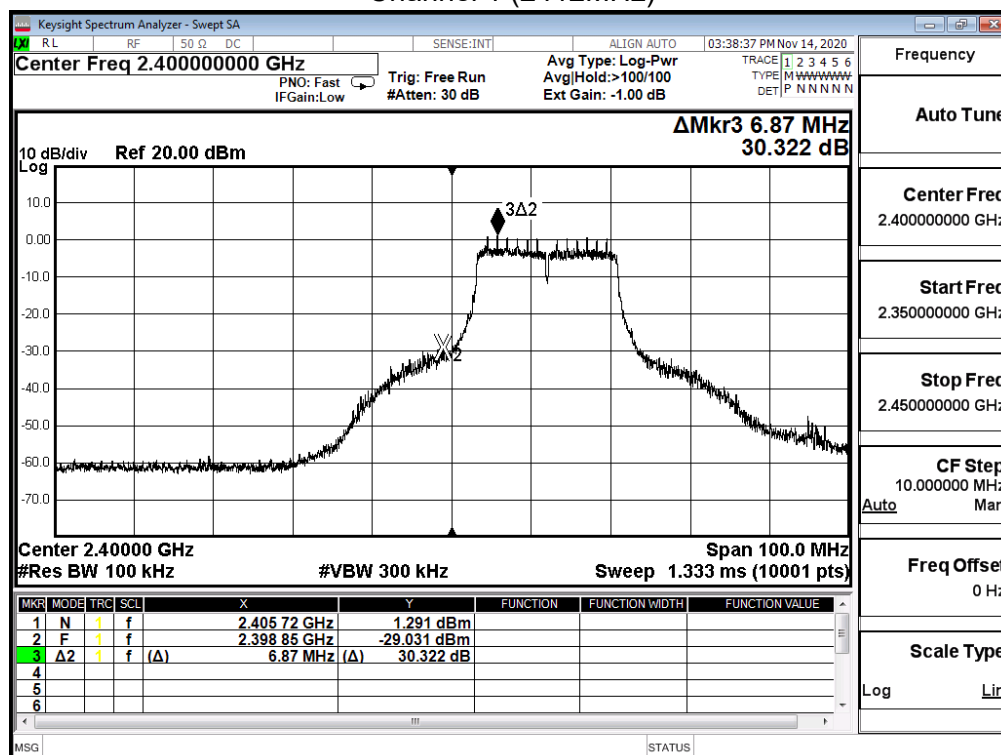
2462MHz (30MHz-25GHz)-11g_Ant 0



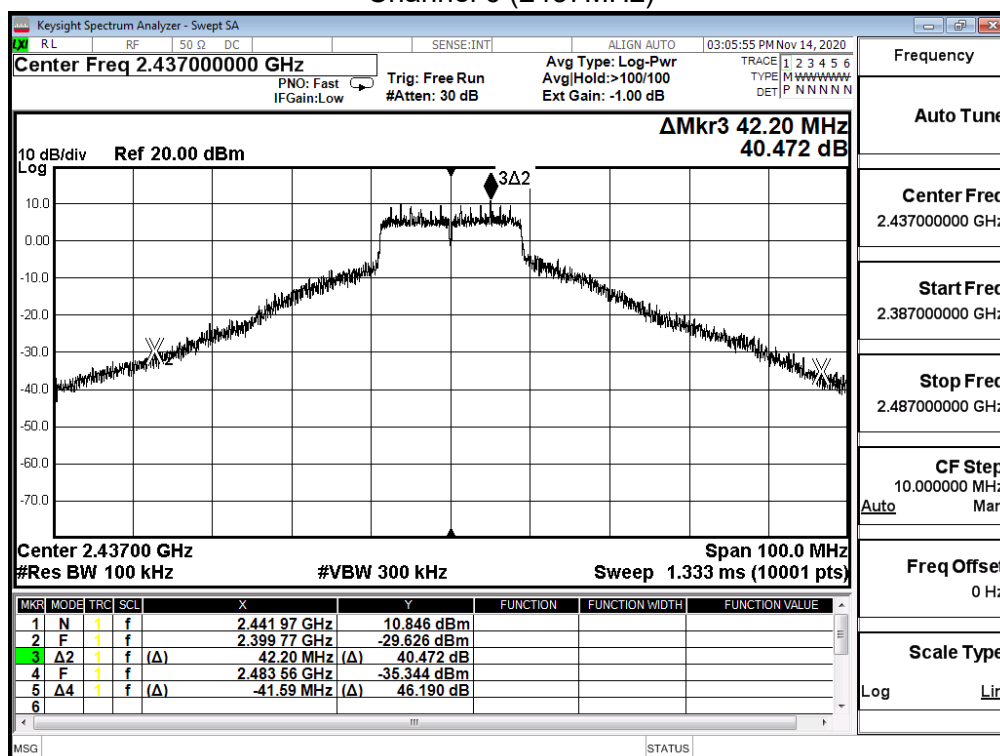
Product	Smart Construction Rover		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2020/11/14	Test Site	SR12-H
Temperature(°C)	22	Humidity (%RH)	63

IEEE 802.11n(20M)(ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	30.322	≥ 30	Pass
6	2437	40.472	≥ 30	Pass
11	2462	40.012	≥ 30	Pass

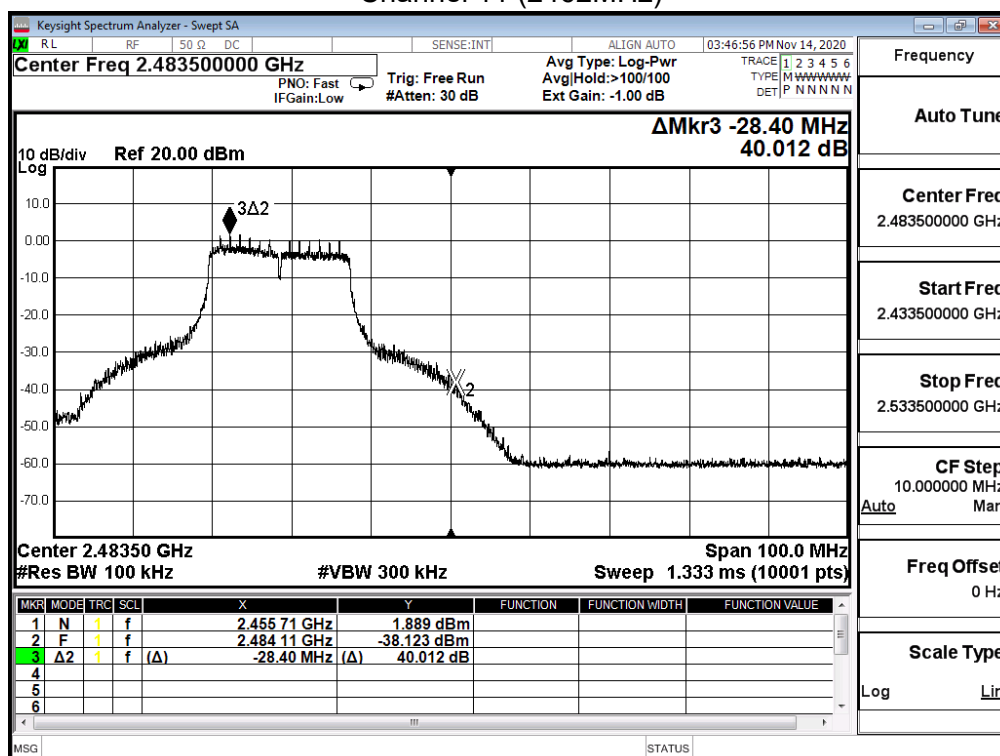
Channel 1 (2412MHz)



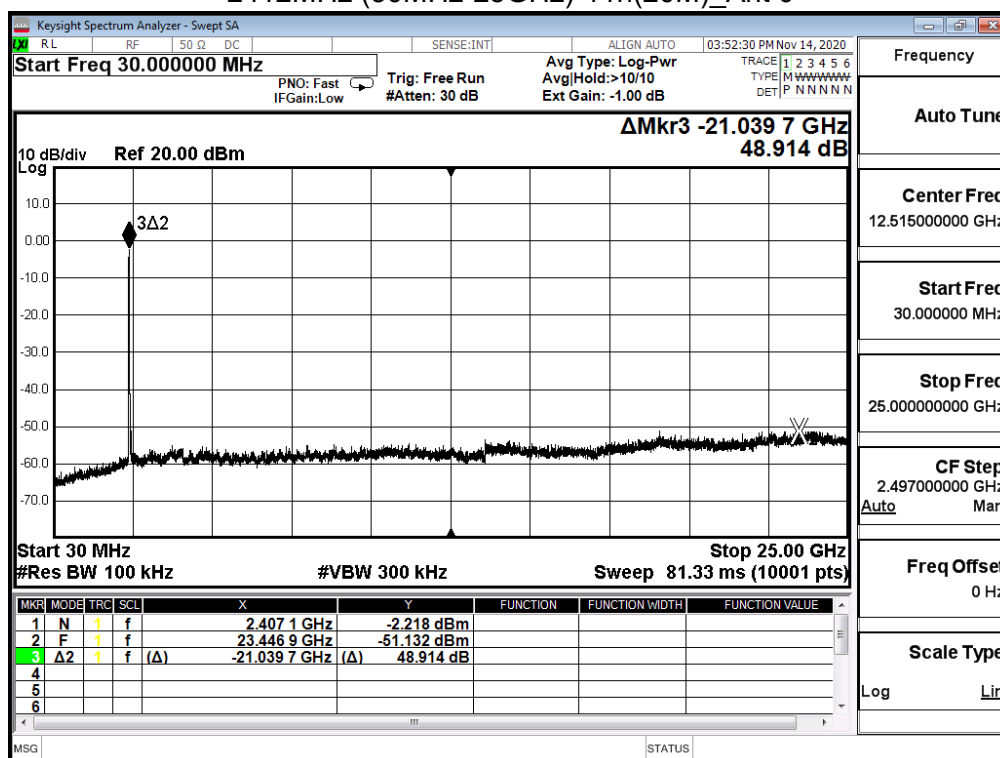
Channel 6 (2437MHz)



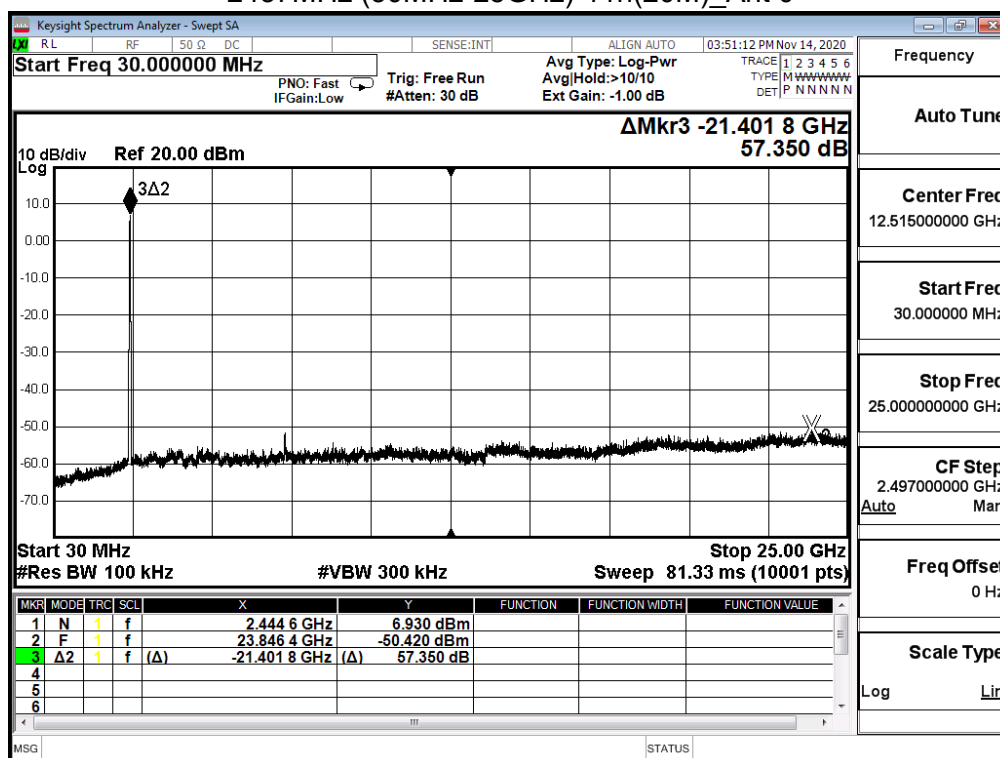
Channel 11 (2462MHz)



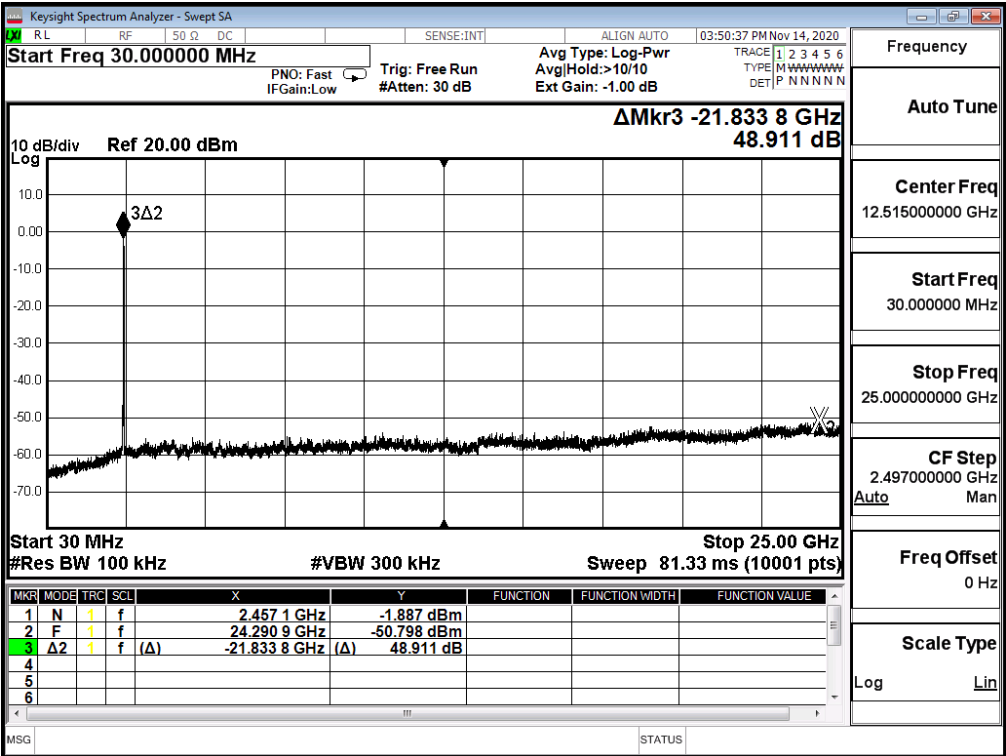
2412MHz (30MHz-25GHz)-11n(20M)_Ant 0



2437MHz (30MHz-25GHz)-11n(20M)_Ant 0

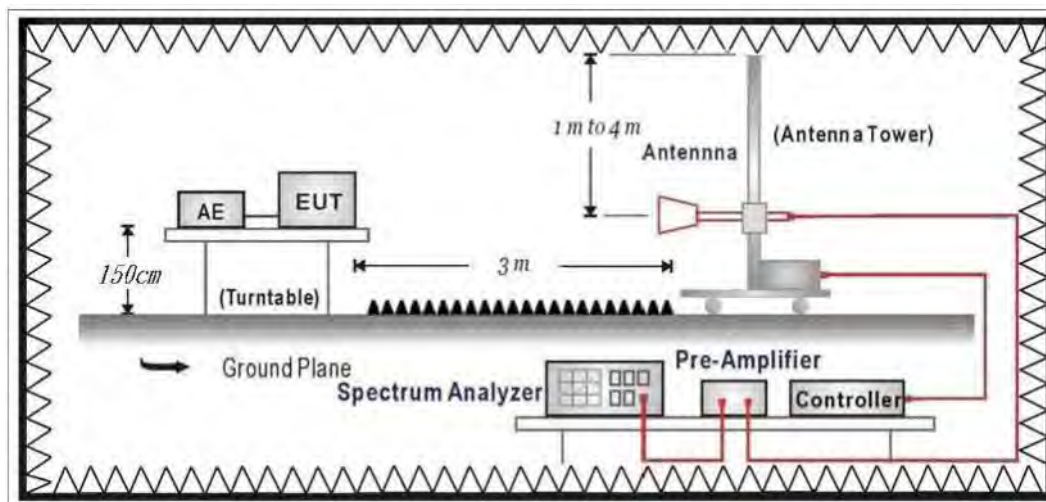


2462MHz (30MHz-25GHz)-11n(20M)_Ant 0



6. Radiated Emission Band Edge

6.1. Test Setup



6.2. Limits

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

6.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

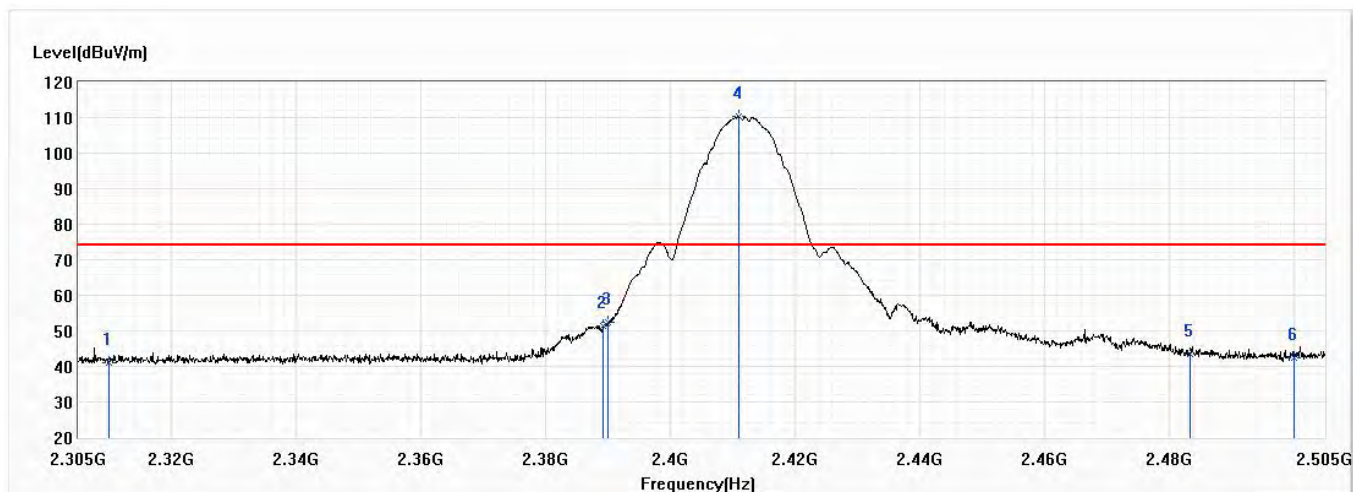
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019

6.5. Test Result

Model No	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11b,Ant0,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

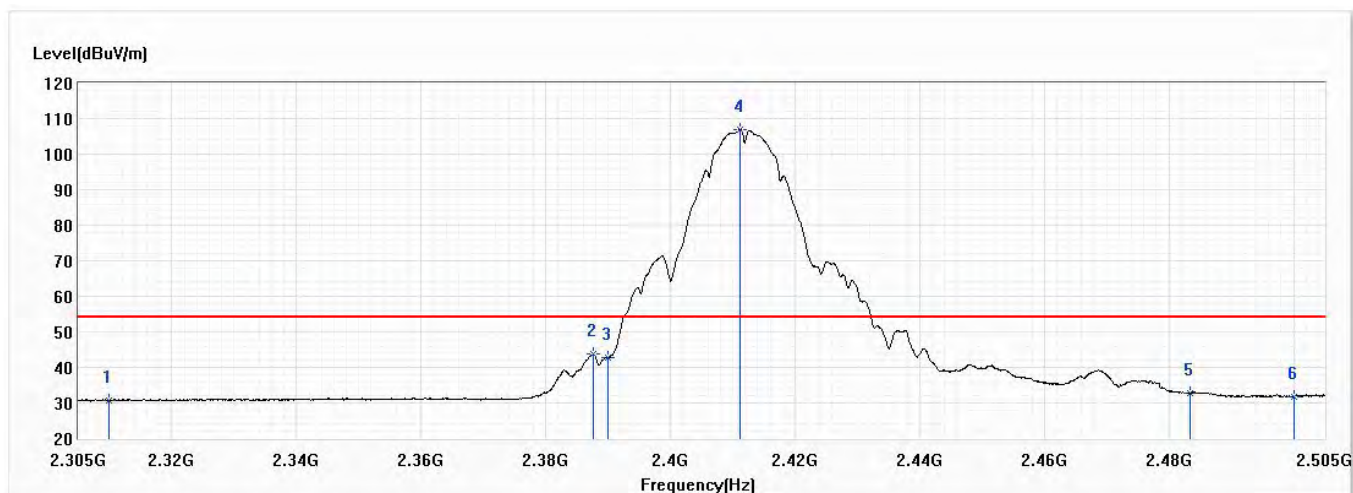


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.15	74.00	-32.85	28.00	13.15	PK
2	2389.200	51.44	74.00	-22.56	37.74	13.70	PK
3	2390.000	52.52	74.00	-21.48	38.82	13.70	PK
4	2410.900	110.18	74.00	36.18	96.33	13.85	PK
5	2483.500	43.32	74.00	-30.68	28.96	14.36	PK
6	2500.000	42.46	74.00	-31.54	27.98	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11b,Ant0,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

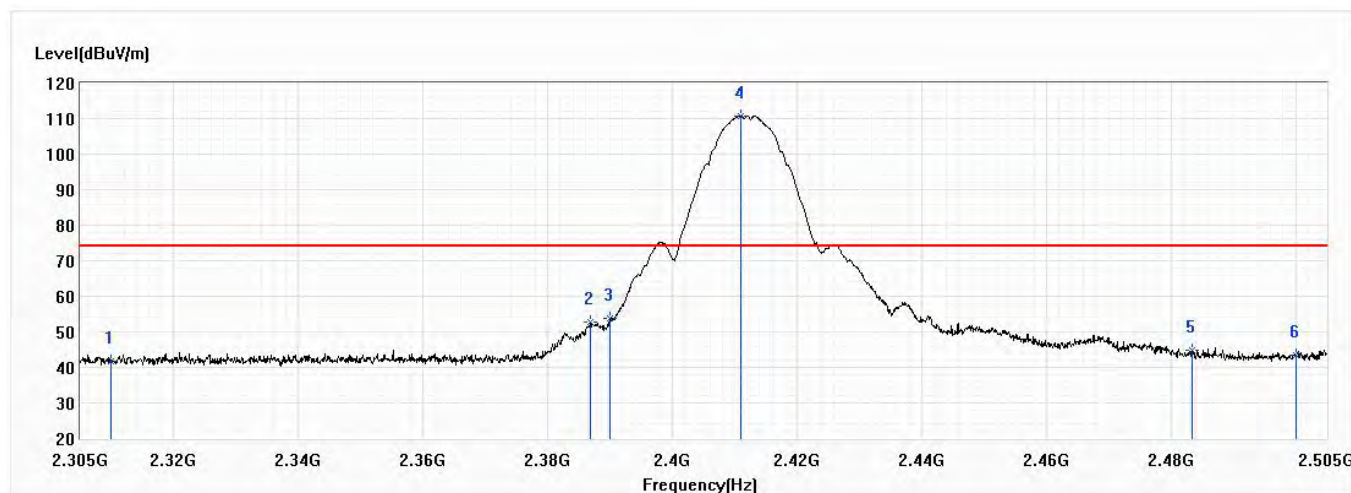


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.82	54.00	-23.18	17.67	13.15	AV
2	2387.700	43.65	54.00	-10.35	29.95	13.70	AV
3	2390.000	42.82	54.00	-11.18	29.12	13.70	AV
! 4	2411.200	106.98	54.00	52.98	93.13	13.85	AV
5	2483.500	32.85	54.00	-21.15	18.49	14.36	AV
6	2500.000	31.72	54.00	-22.28	17.24	14.48	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Model No	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11b,Ant0,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

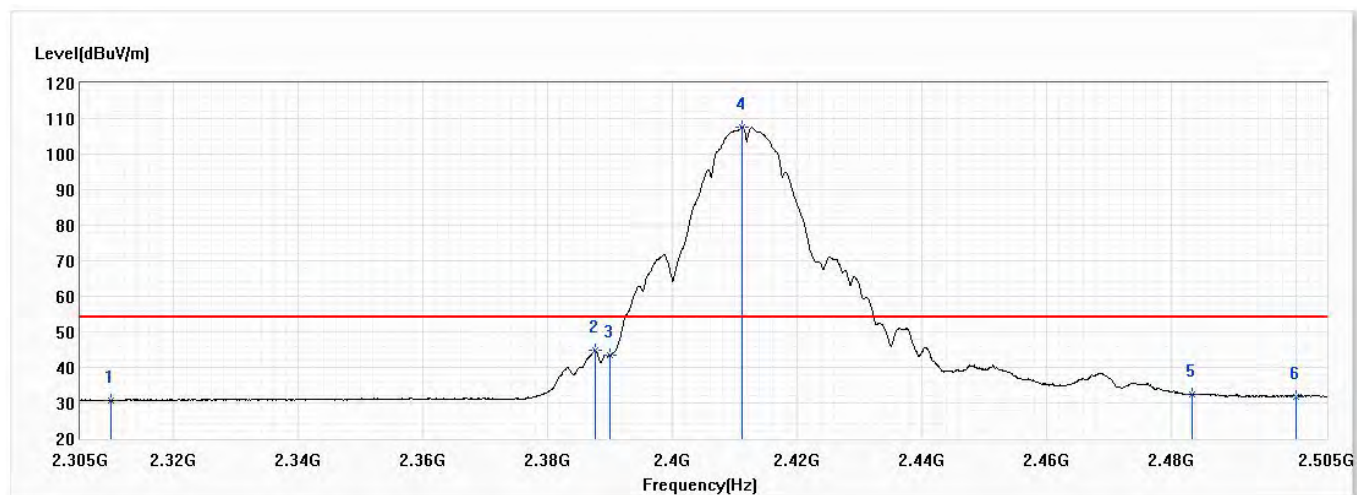


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.78	74.00	-32.22	28.63	13.15	PK
2	2386.900	52.76	74.00	-21.24	39.08	13.68	PK
3	2390.000	53.95	74.00	-20.05	40.25	13.70	PK
! 4	2410.900	110.76	74.00	36.76	96.91	13.85	PK
5	2483.500	44.79	74.00	-29.21	30.43	14.36	PK
6	2500.000	43.48	74.00	-30.52	29.00	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11b,Ant0,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

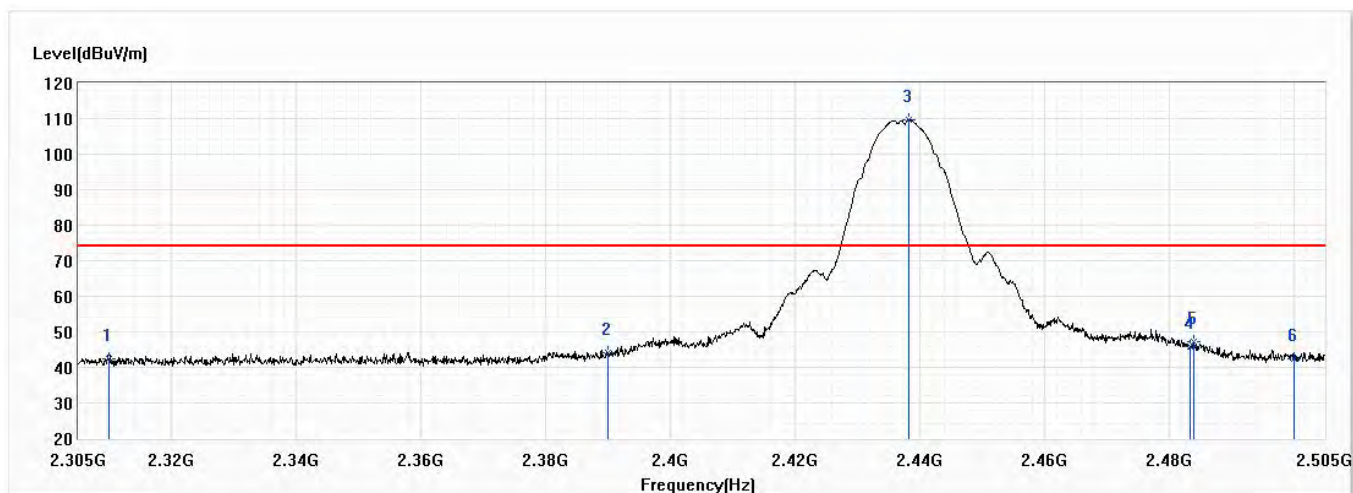


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.65	54.00	-23.35	17.50	13.15	AV
2	2387.700	44.74	54.00	-9.26	31.04	13.70	AV
3	2390.000	43.32	54.00	-10.68	29.62	13.70	AV
! 4	2411.200	107.61	54.00	53.61	93.76	13.85	AV
5	2483.500	32.54	54.00	-21.46	18.18	14.36	AV
6	2500.000	31.80	54.00	-22.20	17.32	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11b,Ant0,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

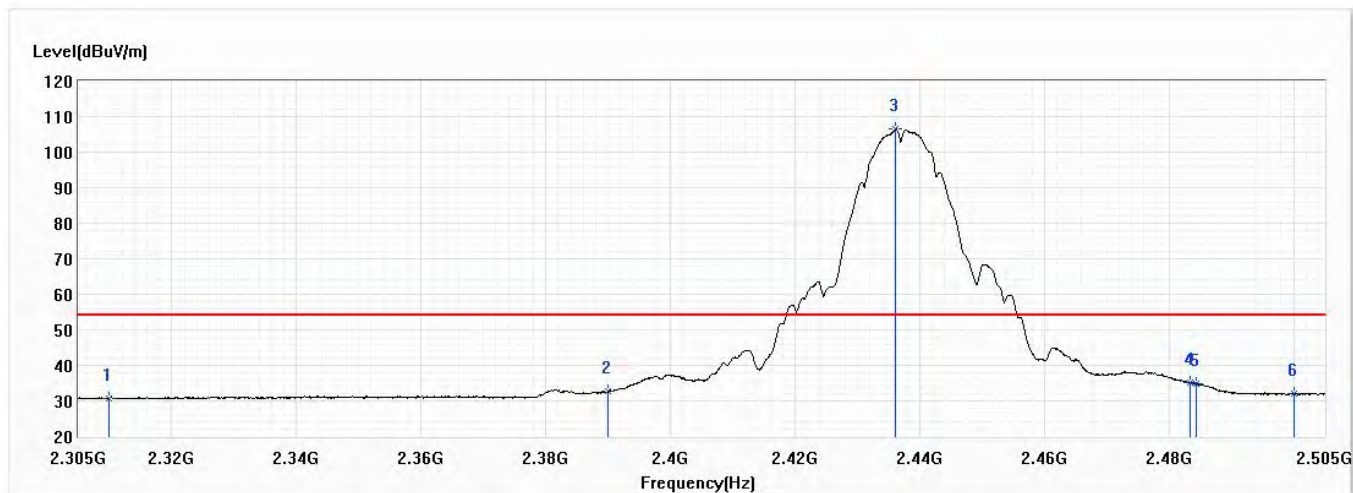


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	42.45	74.00	-31.55	29.30	13.15	PK
2	2390.000	44.25	74.00	-29.75	30.55	13.70	PK
3	2438.300	109.62	74.00	35.62	95.57	14.05	PK
4	2483.500	45.88	74.00	-28.12	31.52	14.36	PK
5	2484.000	47.33	74.00	-26.67	32.97	14.36	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11b,Ant0,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

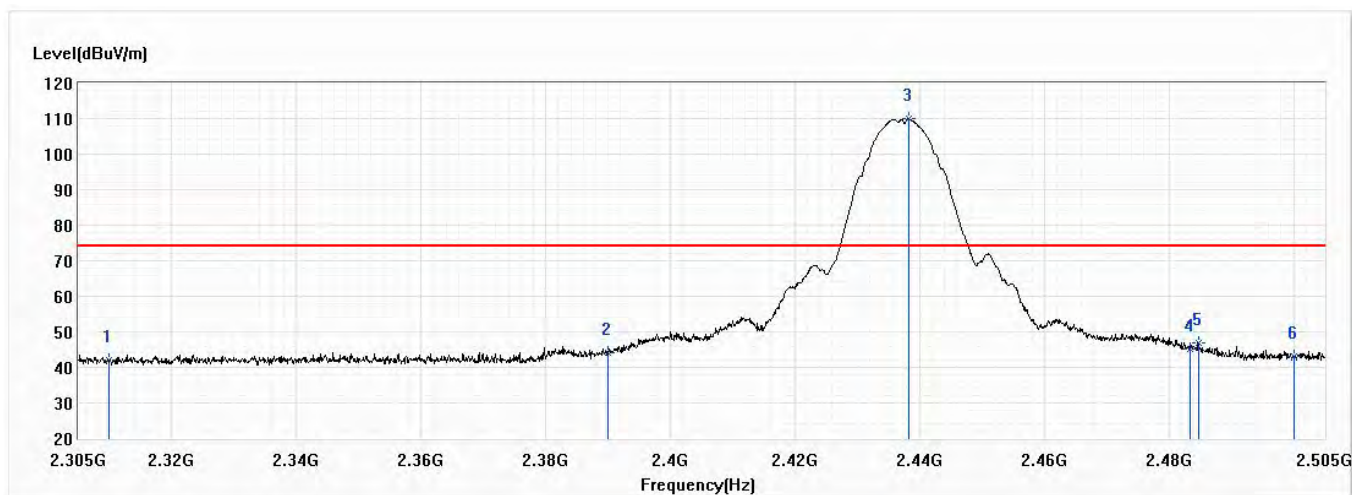


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.71	54.00	-23.29	17.56	13.15	AV
2	2390.000	32.65	54.00	-21.35	18.95	13.70	AV
3	2436.200	106.41	54.00	52.41	92.37	14.04	AV
4	2483.500	35.01	54.00	-18.99	20.65	14.36	AV
5	2484.400	34.95	54.00	-19.05	20.59	14.36	AV
6	2500.000	31.96	54.00	-22.04	17.48	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11b,Ant0,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

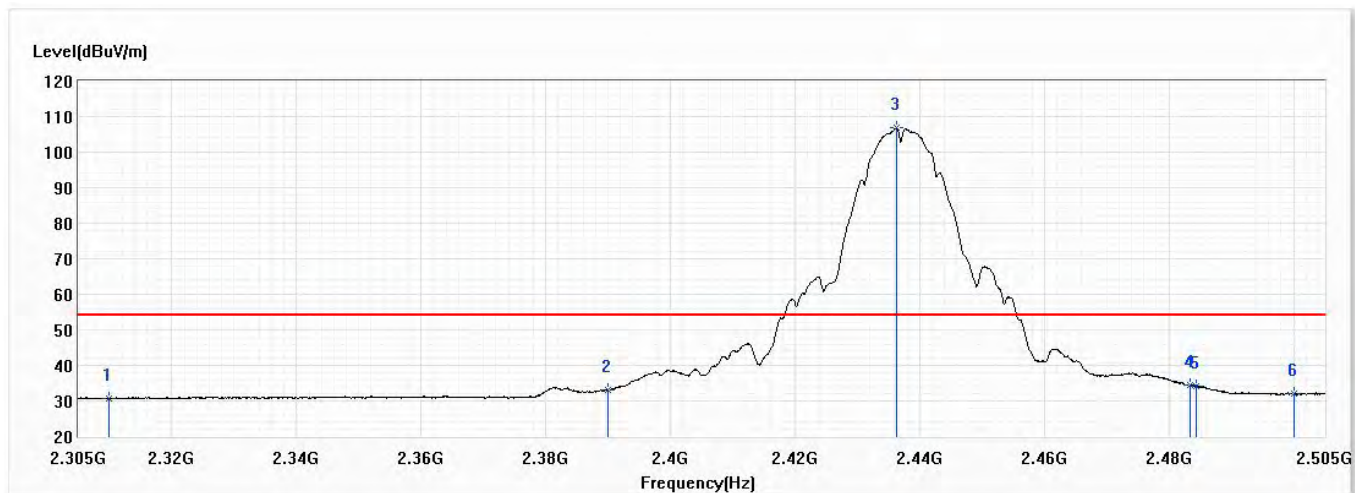


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.92	74.00	-32.08	28.77	13.15	PK
2	2390.000	44.11	74.00	-29.89	30.41	13.70	PK
! 3	2438.200	109.86	74.00	35.86	95.81	14.05	PK
4	2483.500	45.31	74.00	-28.69	30.95	14.36	PK
5	2484.700	47.01	74.00	-26.99	32.65	14.36	PK
6	2500.000	43.08	74.00	-30.92	28.60	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11b,Ant0,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

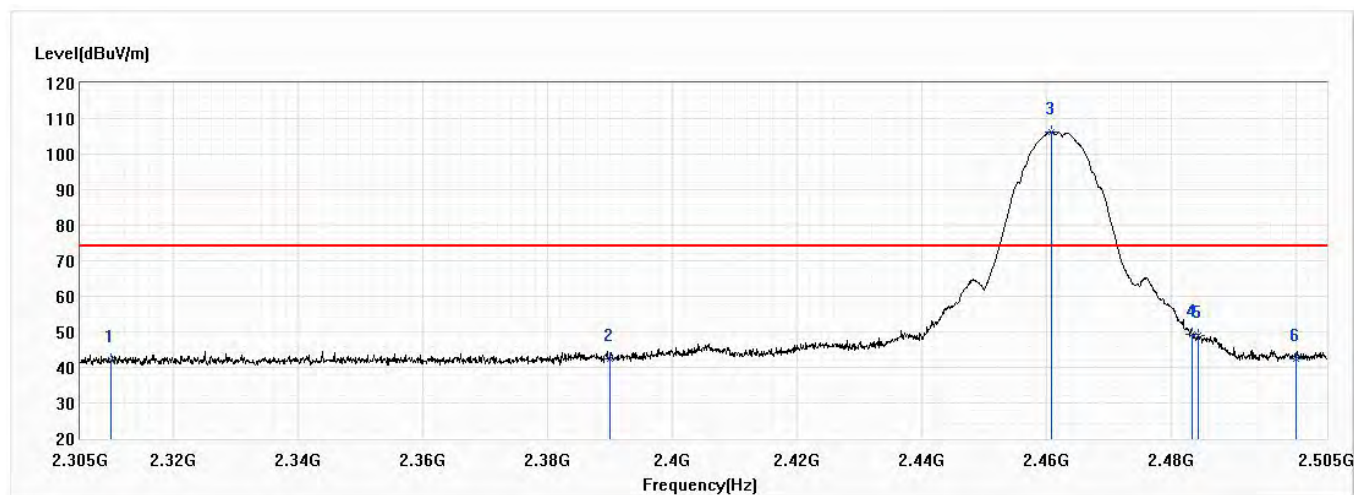


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.67	54.00	-23.33	17.52	13.15	AV
2	2390.000	33.18	54.00	-20.82	19.48	13.70	AV
! 3	2436.300	106.73	54.00	52.73	92.69	14.04	AV
4	2483.500	34.34	54.00	-19.66	19.98	14.36	AV
5	2484.400	34.14	54.00	-19.86	19.78	14.36	AV
6	2500.000	31.95	54.00	-22.05	17.47	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11b,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

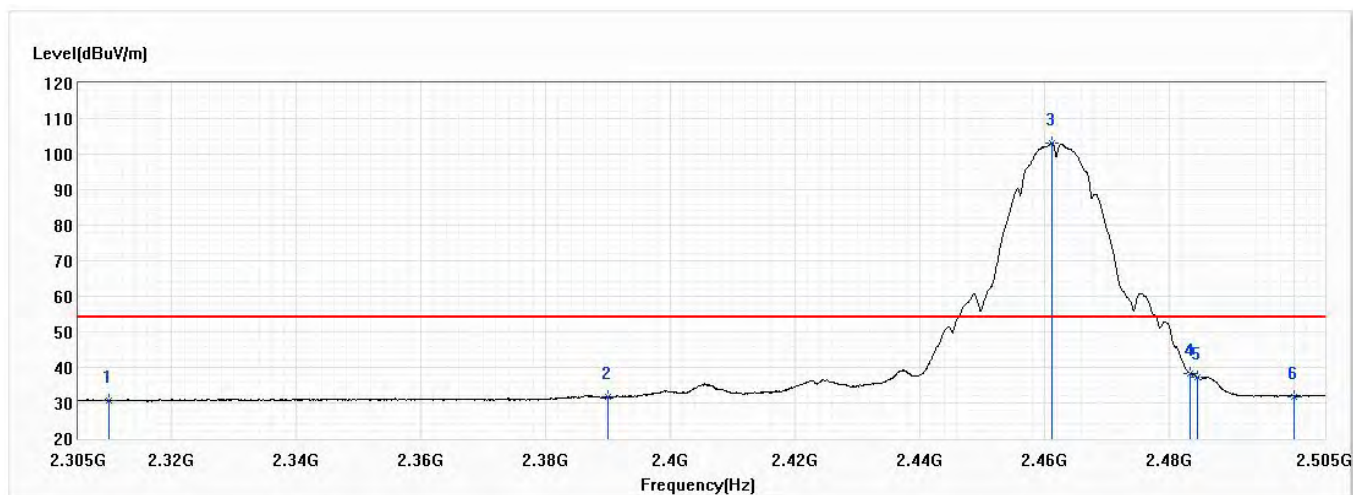


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	42.02	74.00	-31.98	28.87	13.15	PK
2	2390.000	42.30	74.00	-31.70	28.60	13.70	PK
! 3	2460.800	106.35	74.00	32.35	92.14	14.21	PK
4	2483.500	49.42	74.00	-24.58	35.06	14.36	PK
5	2484.400	48.93	74.00	-25.07	34.57	14.36	PK
6	2500.000	42.50	74.00	-31.50	28.02	14.48	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Model No	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11b,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

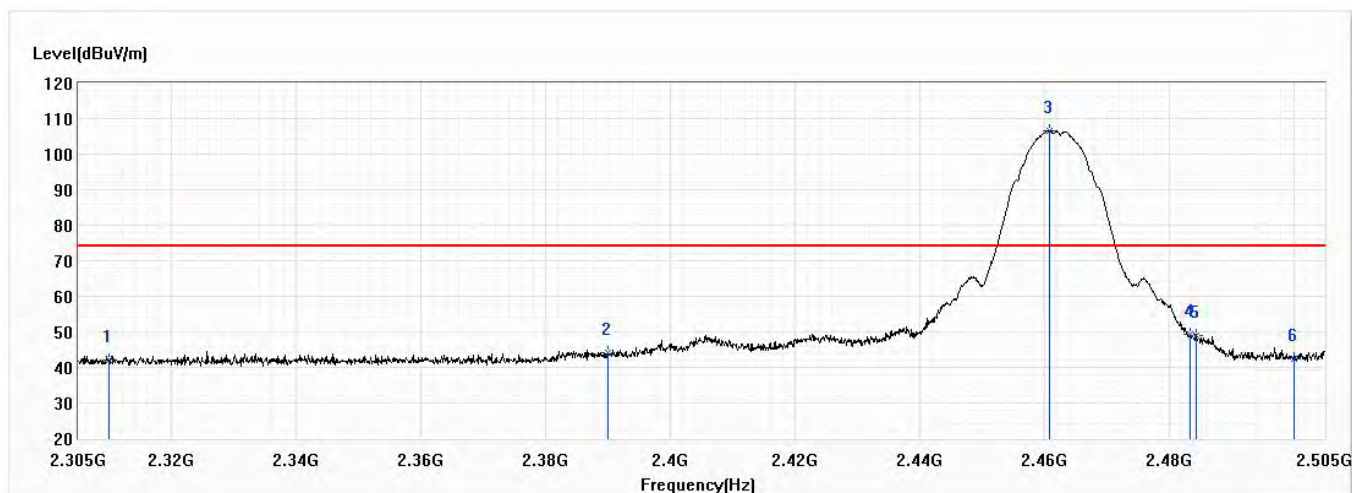


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.53	54.00	-23.47	17.38	13.15	AV
2	2390.000	31.60	54.00	-22.40	17.90	13.70	AV
! 3	2461.200	103.20	54.00	49.20	88.99	14.21	AV
4	2483.500	38.14	54.00	-15.86	23.78	14.36	AV
5	2484.500	37.19	54.00	-16.81	22.83	14.36	AV
6	2500.000	31.87	54.00	-22.13	17.39	14.48	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Model No	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11b,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

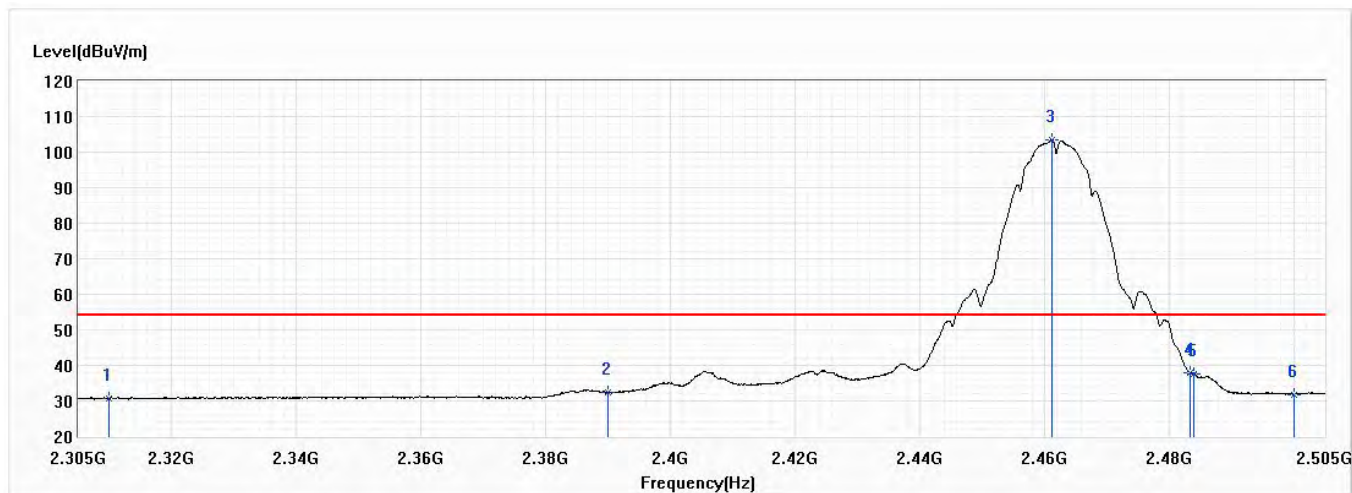


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.97	74.00	-32.03	28.82	13.15	PK
2	2390.000	44.03	74.00	-29.97	30.33	13.70	PK
3	2460.900	106.69	74.00	32.69	92.48	14.21	PK
4	2483.500	49.22	74.00	-24.78	34.86	14.36	PK
5	2484.300	48.94	74.00	-25.06	34.58	14.36	PK
6	2500.000	42.35	74.00	-31.65	27.87	14.48	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Model No	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/12
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11b,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

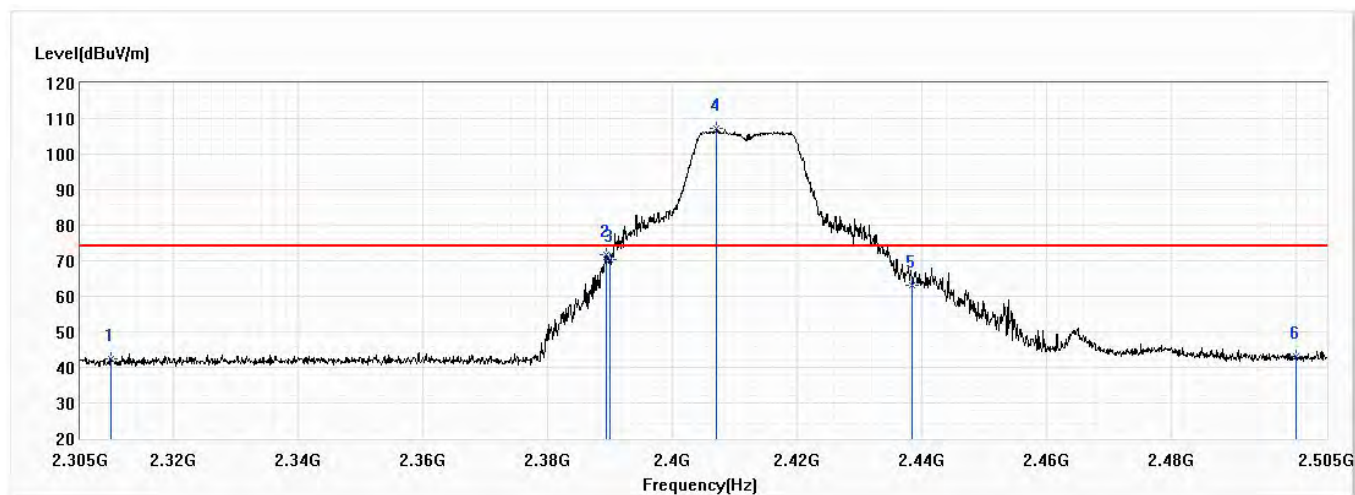


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.66	54.00	-23.34	17.51	13.15	AV
2	2390.000	32.33	54.00	-21.67	18.63	13.70	AV
! 3	2461.300	103.55	54.00	49.55	89.34	14.21	AV
4	2483.500	37.83	54.00	-16.17	23.47	14.36	AV
5	2484.000	37.53	54.00	-16.47	23.17	14.36	AV
6	2500.000	31.82	54.00	-22.18	17.34	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/6
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11g,Ant0,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

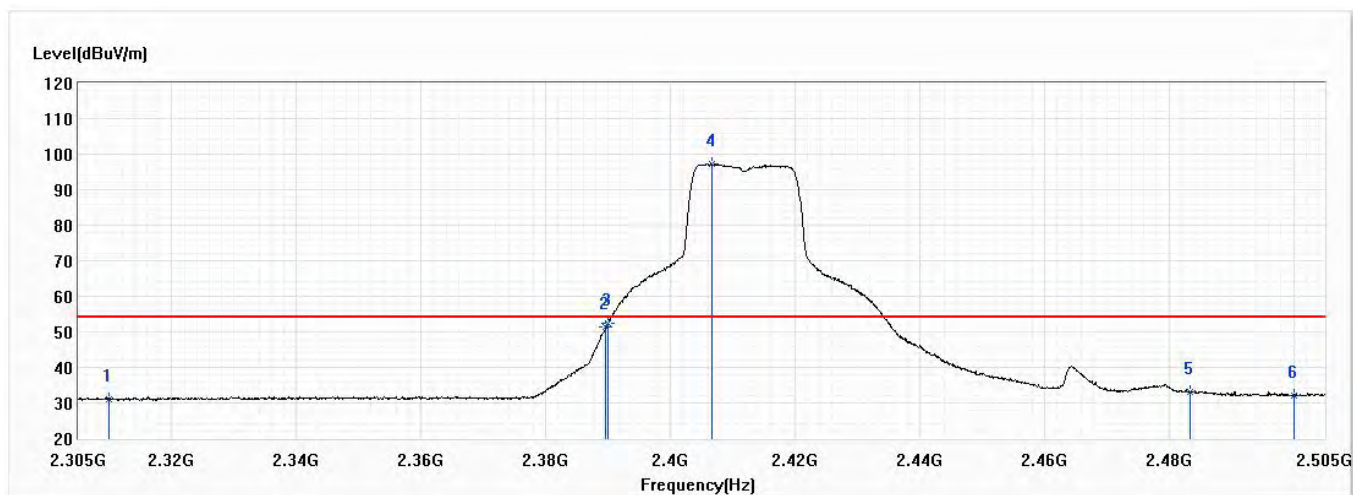


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	42.45	74.00	-31.55	29.30	13.15	PK
2	2389.400	71.62	74.00	-2.38	57.92	13.70	PK
3	2390.000	70.22	74.00	-3.78	56.52	13.70	PK
! 4	2407.100	107.10	74.00	33.10	93.27	13.83	PK
5	2438.500	63.21	74.00	-10.79	49.16	14.05	PK
6	2500.000	43.07	74.00	-30.93	28.59	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/6
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11g,Ant0,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

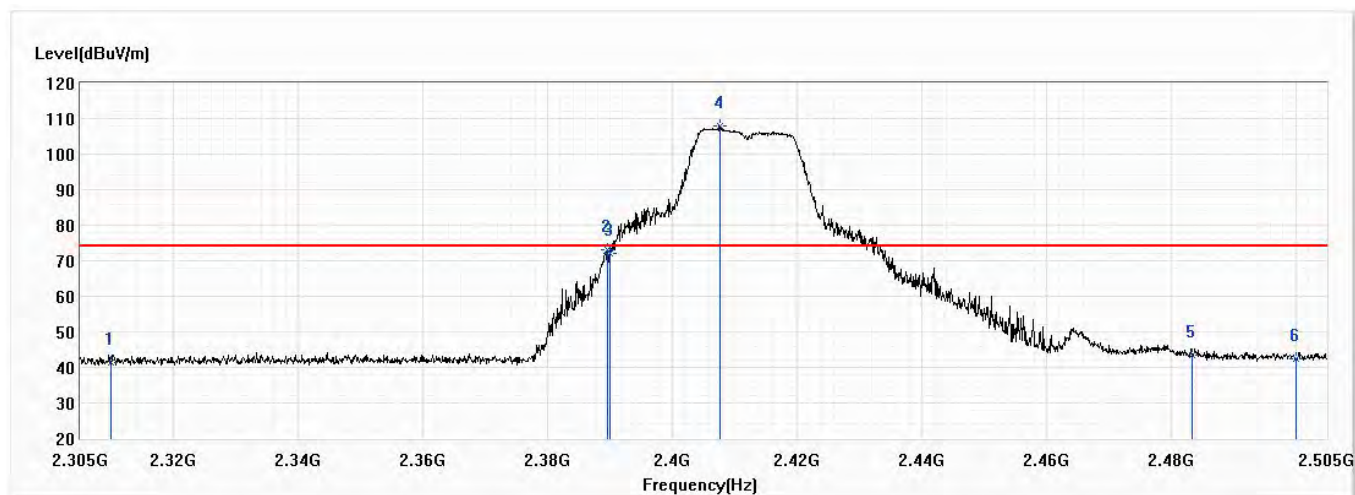


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.02	54.00	-22.98	17.87	13.15	AV
2	2389.600	51.41	54.00	-2.59	37.71	13.70	AV
3	2390.000	52.31	54.00	-1.69	38.61	13.70	AV
! 4	2406.600	97.17	54.00	43.17	83.35	13.82	AV
5	2483.500	33.13	54.00	-20.87	18.77	14.36	AV
6	2500.000	32.22	54.00	-21.78	17.74	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/6
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11g,Ant0,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

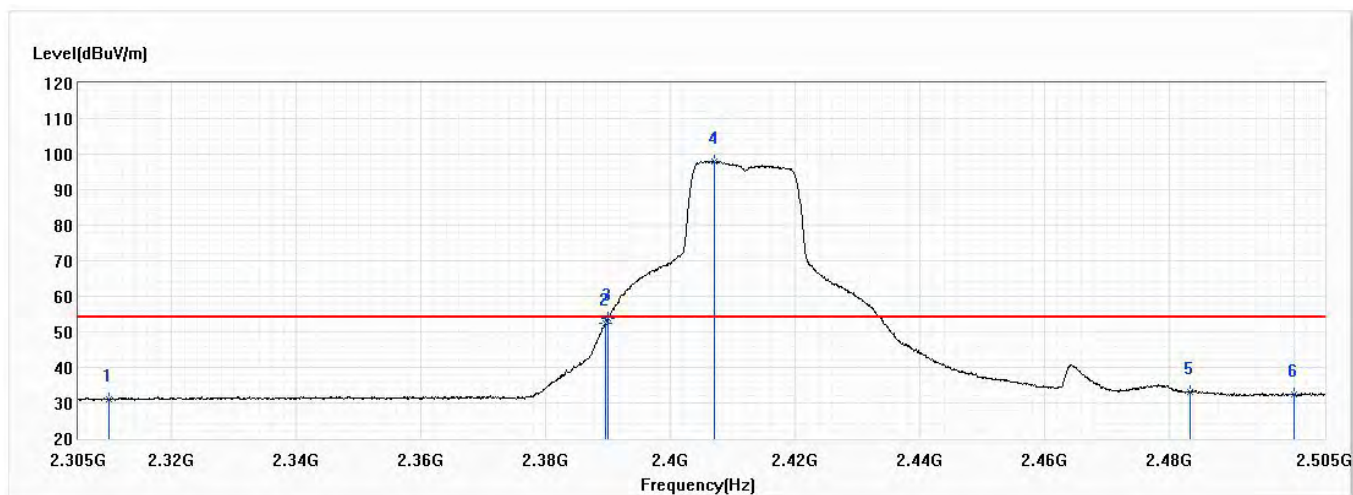


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.32	74.00	-32.68	28.17	13.15	PK
2	2389.500	72.95	74.00	-1.05	59.25	13.70	PK
3	2390.000	72.10	74.00	-1.90	58.40	13.70	PK
! 4	2407.700	107.86	74.00	33.86	94.03	13.83	PK
5	2483.500	43.59	74.00	-30.41	29.23	14.36	PK
6	2500.000	42.26	74.00	-31.74	27.78	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/6
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11g,Ant0,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

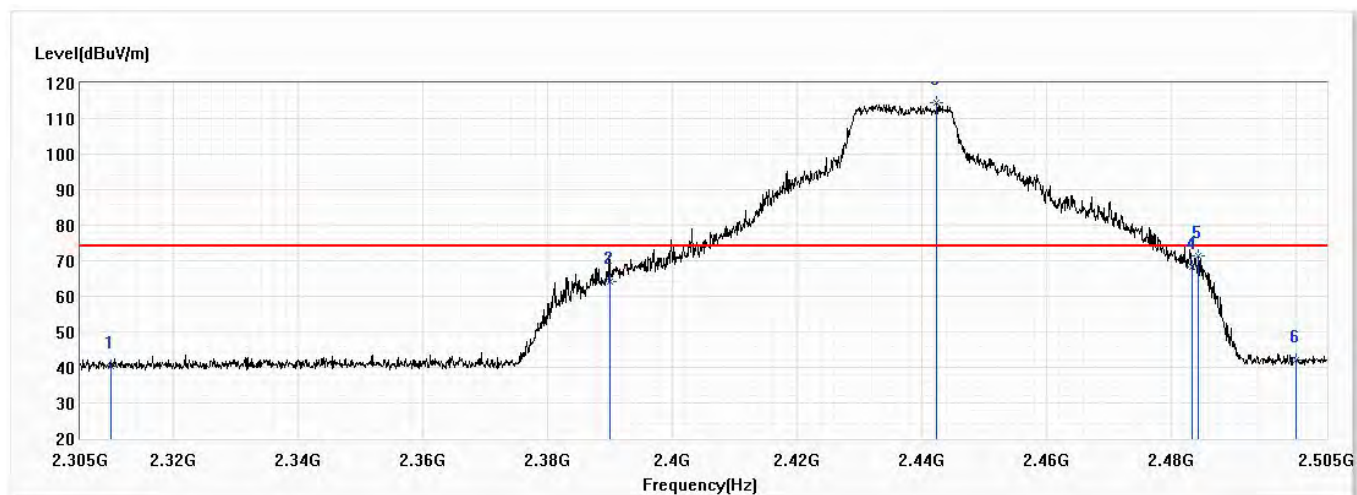


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.89	54.00	-23.11	17.74	13.15	AV
2	2389.500	52.37	54.00	-1.63	38.67	13.70	AV
3	2390.000	53.64	54.00	-0.36	39.94	13.70	AV
! 4	2407.100	98.04	54.00	44.04	84.21	13.83	AV
5	2483.500	33.01	54.00	-20.99	18.65	14.36	AV
6	2500.000	32.57	54.00	-21.43	18.09	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/6
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11g,Ant0,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

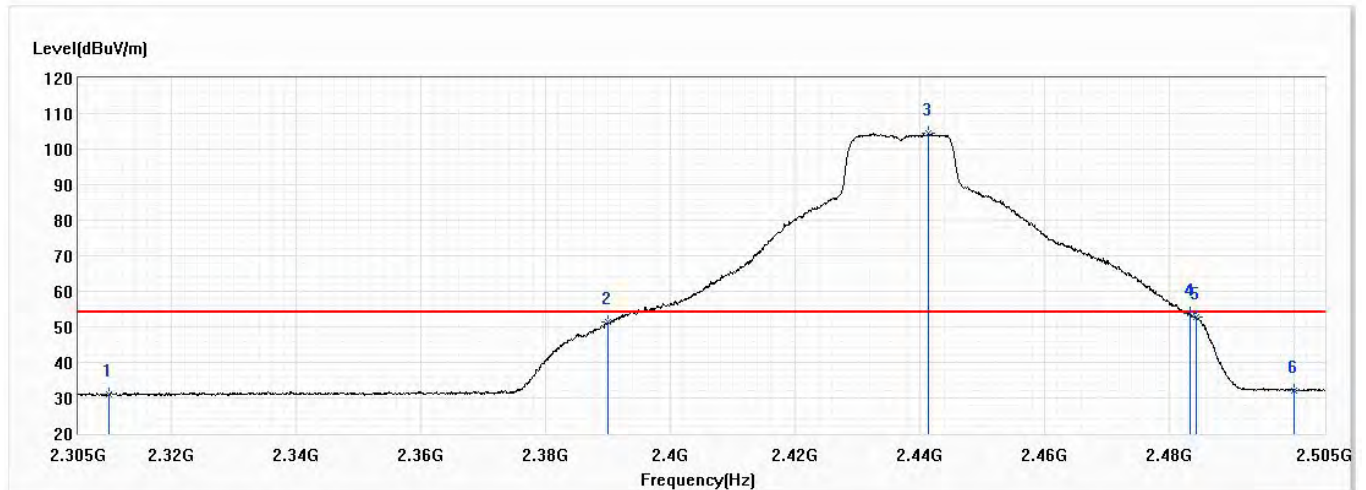


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	40.27	74.00	-33.73	27.12	13.15	PK
2	2390.000	64.04	74.00	-9.96	50.34	13.70	PK
! 3	2442.400	114.51	74.00	40.51	100.43	14.08	PK
4	2483.500	68.24	74.00	-5.76	53.88	14.36	PK
5	2484.400	71.43	74.00	-2.57	57.07	14.36	PK
6	2500.000	42.18	74.00	-31.82	27.70	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/6
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11g,Ant0,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

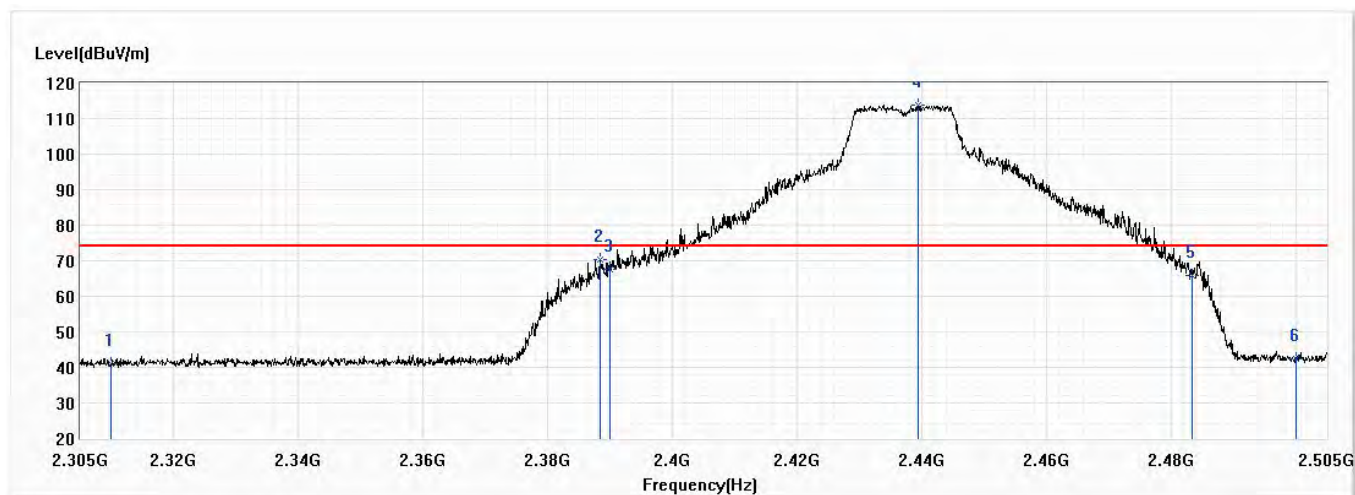


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.87	54.00	-23.13	17.72	13.15	AV
2	2390.000	51.38	54.00	-2.62	37.68	13.70	AV
3	2441.400	104.39	54.00	50.39	90.33	14.06	AV
4	2483.500	53.88	54.00	-0.12	39.52	14.36	AV
5	2484.400	52.74	54.00	-1.26	38.38	14.36	AV
6	2500.000	32.09	54.00	-21.91	17.61	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/6
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11g,Ant0,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

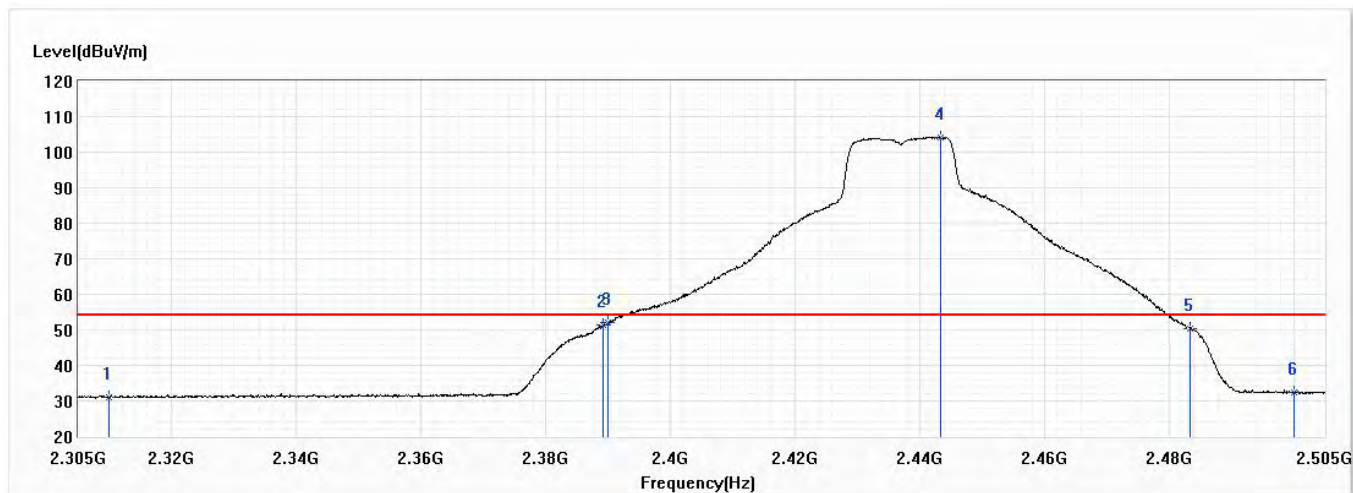


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.08	74.00	-32.92	27.93	13.15	PK
2	2388.400	70.45	74.00	-3.55	56.75	13.70	PK
3	2390.000	67.57	74.00	-6.43	53.87	13.70	PK
! 4	2439.400	113.94	74.00	39.94	99.89	14.05	PK
5	2483.500	65.77	74.00	-8.23	51.41	14.36	PK
6	2500.000	42.32	74.00	-31.68	27.84	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/6
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11g,Ant0,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

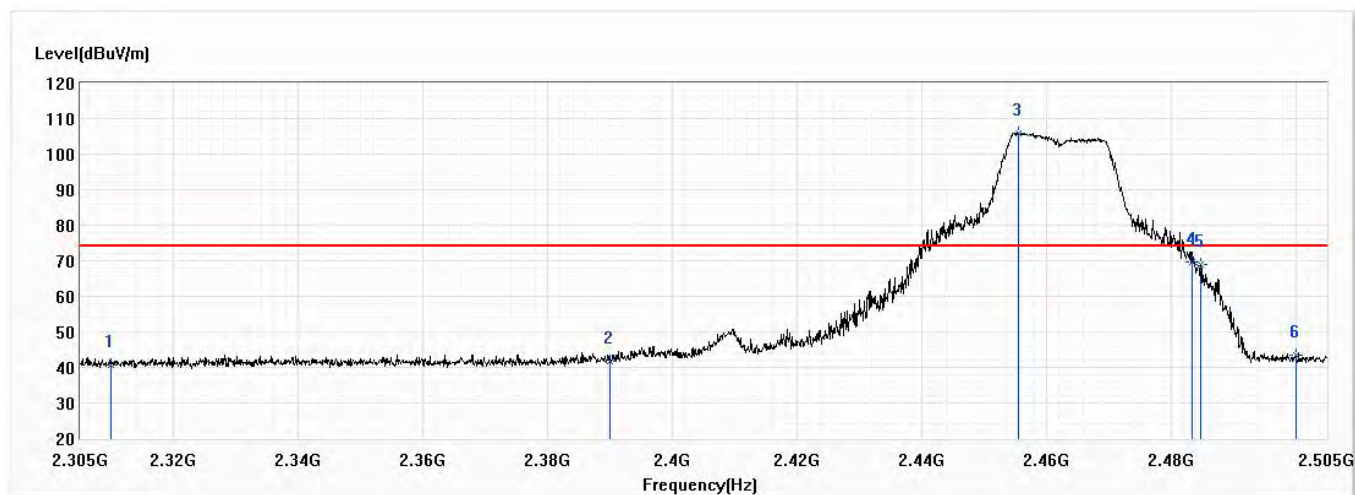


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.12	54.00	-22.88	17.97	13.15	AV
2	2389.200	51.42	54.00	-2.58	37.72	13.70	AV
3	2390.000	51.91	54.00	-2.09	38.21	13.70	AV
! 4	2443.300	104.28	54.00	50.28	90.19	14.09	AV
5	2483.500	50.32	54.00	-3.68	35.96	14.36	AV
6	2500.000	32.46	54.00	-21.54	17.98	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/6
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11g,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

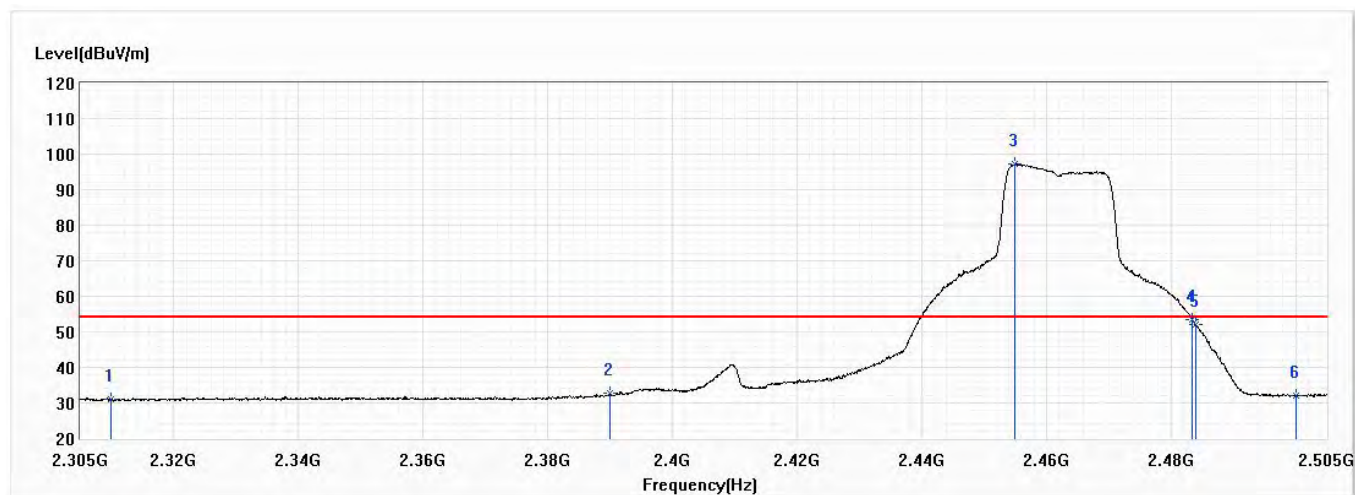


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	40.57	74.00	-33.43	27.42	13.15	PK
2	2390.000	41.85	74.00	-32.15	28.15	13.70	PK
! 3	2455.500	106.00	74.00	32.00	91.83	14.17	PK
4	2483.500	69.62	74.00	-4.38	55.26	14.36	PK
5	2484.800	68.81	74.00	-5.19	54.44	14.37	PK
6	2500.000	43.34	74.00	-30.66	28.86	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/9
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11g,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

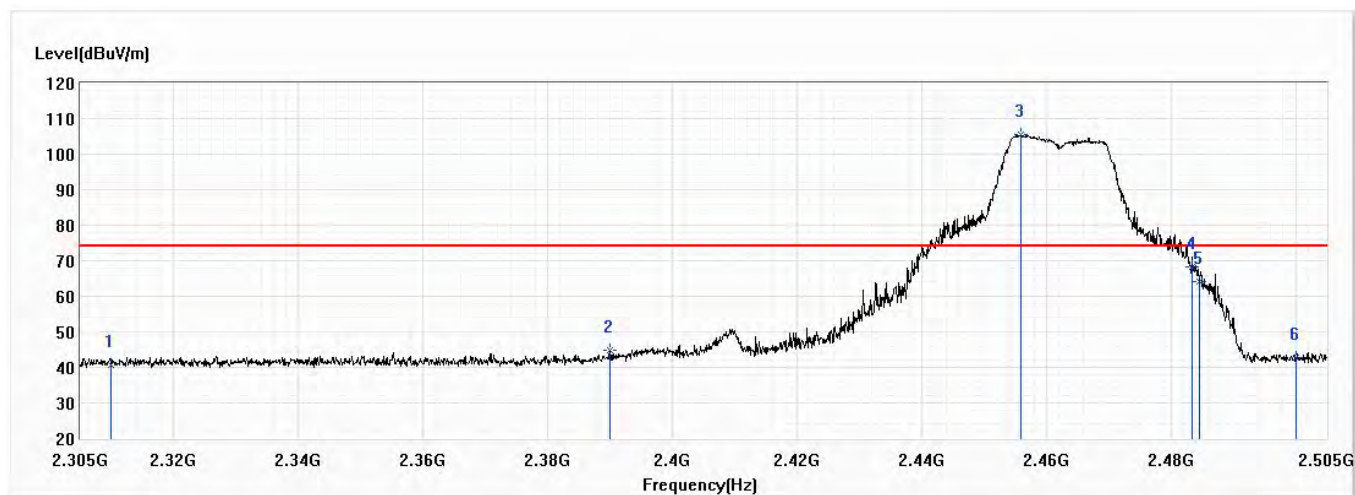


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.01	54.00	-22.99	17.86	13.15	AV
2	2390.000	32.59	54.00	-21.41	18.89	13.70	AV
! 3	2455.000	97.32	54.00	43.32	83.15	14.17	AV
4	2483.500	53.33	54.00	-0.67	38.97	14.36	AV
5	2484.000	52.22	54.00	-1.78	37.86	14.36	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/9
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11g,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

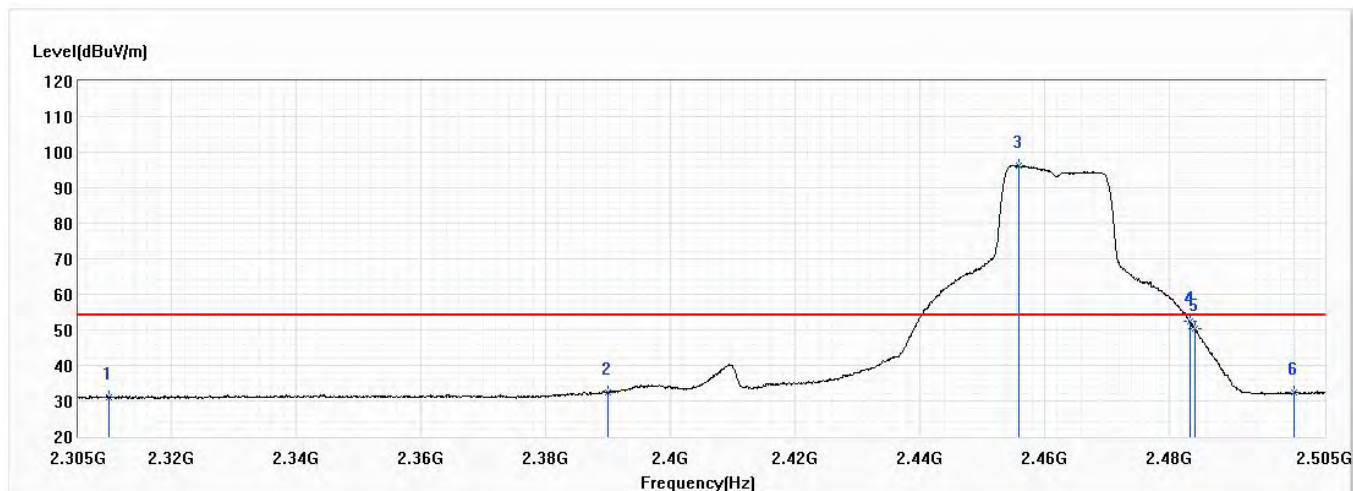


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	40.73	74.00	-33.27	27.58	13.15	PK
2	2390.000	44.71	74.00	-29.29	31.01	13.70	PK
! 3	2456.000	105.40	74.00	31.40	91.23	14.17	PK
4	2483.500	68.34	74.00	-5.66	53.98	14.36	PK
5	2484.500	64.28	74.00	-9.72	49.92	14.36	PK
6	2500.000	42.86	74.00	-31.14	28.38	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/9
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11g,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

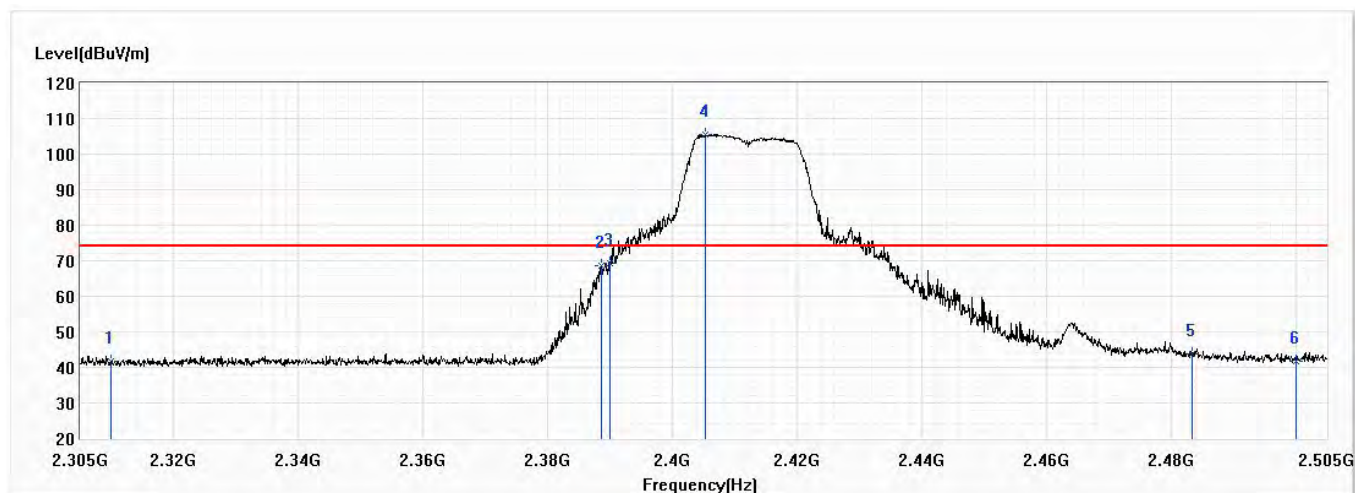


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	31.17	54.00	-22.83	18.02	13.15	AV
2	2390.000	32.38	54.00	-21.62	18.68	13.70	AV
! 3	2455.900	96.30	54.00	42.30	82.13	14.17	AV
4	2483.500	52.28	54.00	-1.72	37.92	14.36	AV
5	2484.200	50.47	54.00	-3.53	36.11	14.36	AV
6	2500.000	32.40	54.00	-21.60	17.92	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/9
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

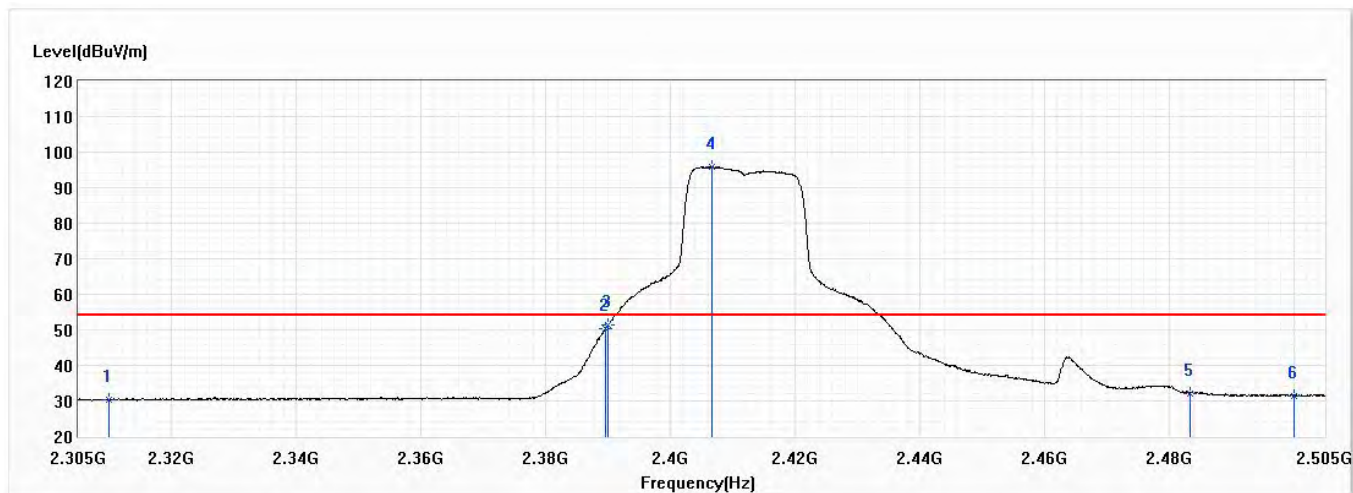


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.61	74.00	-32.39	28.46	13.15	PK
2	2388.600	68.70	74.00	-5.30	55.00	13.70	PK
3	2390.000	69.16	74.00	-4.84	55.46	13.70	PK
! 4	2405.200	105.64	74.00	31.64	91.83	13.81	PK
5	2483.500	43.79	74.00	-30.21	29.43	14.36	PK
6	2500.000	41.78	74.00	-32.22	27.30	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/9
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

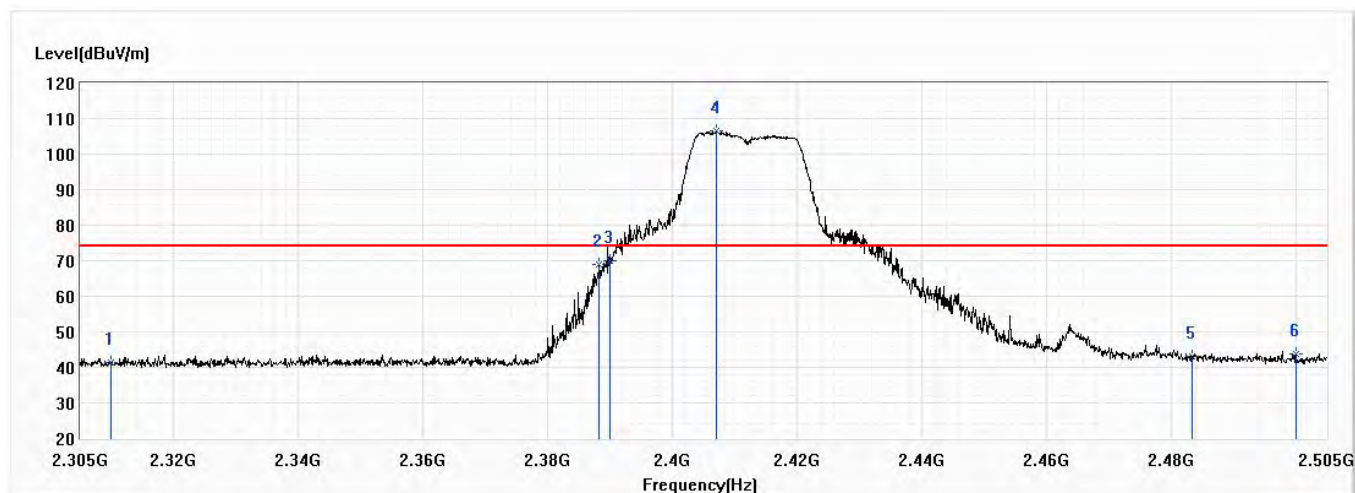


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.40	54.00	-23.60	17.25	13.15	AV
2	2389.600	50.46	54.00	-3.54	36.76	13.70	AV
3	2390.000	51.24	54.00	-2.76	37.54	13.70	AV
! 4	2406.700	95.91	54.00	41.91	82.09	13.82	AV
5	2483.500	32.22	54.00	-21.78	17.86	14.36	AV
6	2500.000	31.50	54.00	-22.50	17.02	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/9
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

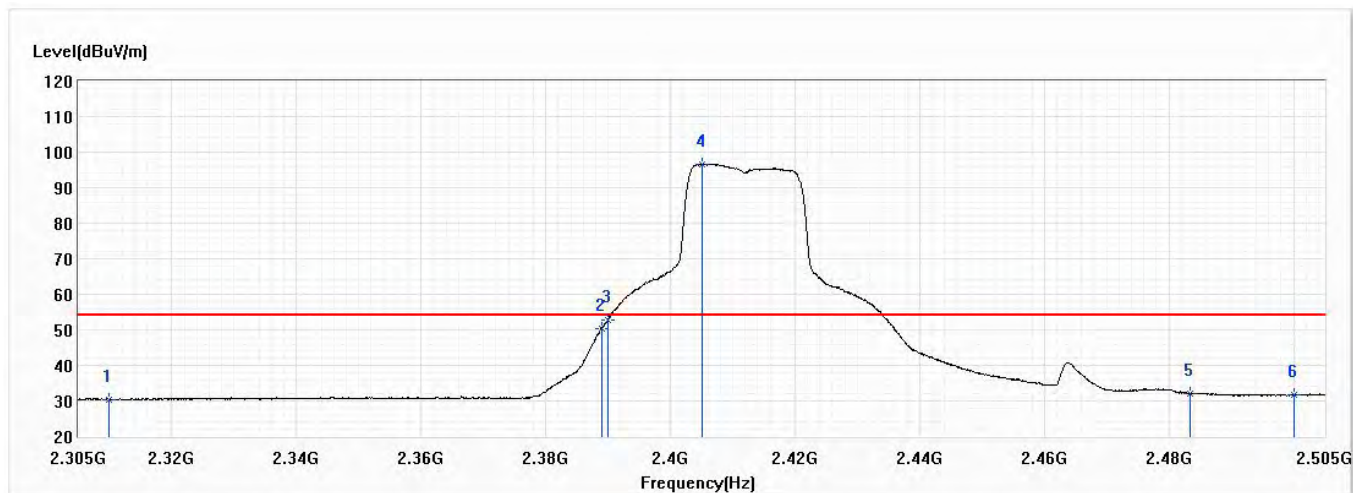


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.37	74.00	-32.63	28.22	13.15	PK
2	2388.300	68.89	74.00	-5.11	55.19	13.70	PK
3	2390.000	70.03	74.00	-3.97	56.33	13.70	PK
! 4	2407.000	106.52	74.00	32.52	92.69	13.83	PK
5	2483.500	42.94	74.00	-31.06	28.58	14.36	PK
6	2500.000	43.74	74.00	-30.26	29.26	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/9
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

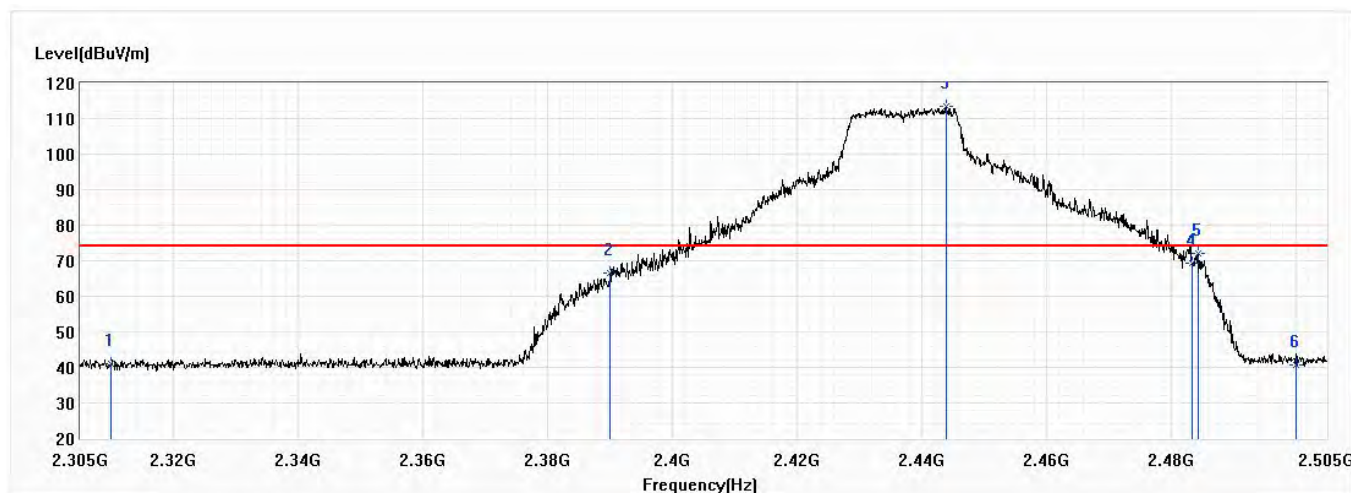


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.40	54.00	-23.60	17.25	13.15	AV
2	2389.000	50.32	54.00	-3.68	36.62	13.70	AV
3	2390.000	52.90	54.00	-1.10	39.20	13.70	AV
! 4	2405.000	96.69	54.00	42.69	82.88	13.81	AV
5	2483.500	32.03	54.00	-21.97	17.67	14.36	AV
6	2500.000	31.57	54.00	-22.43	17.09	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/9
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

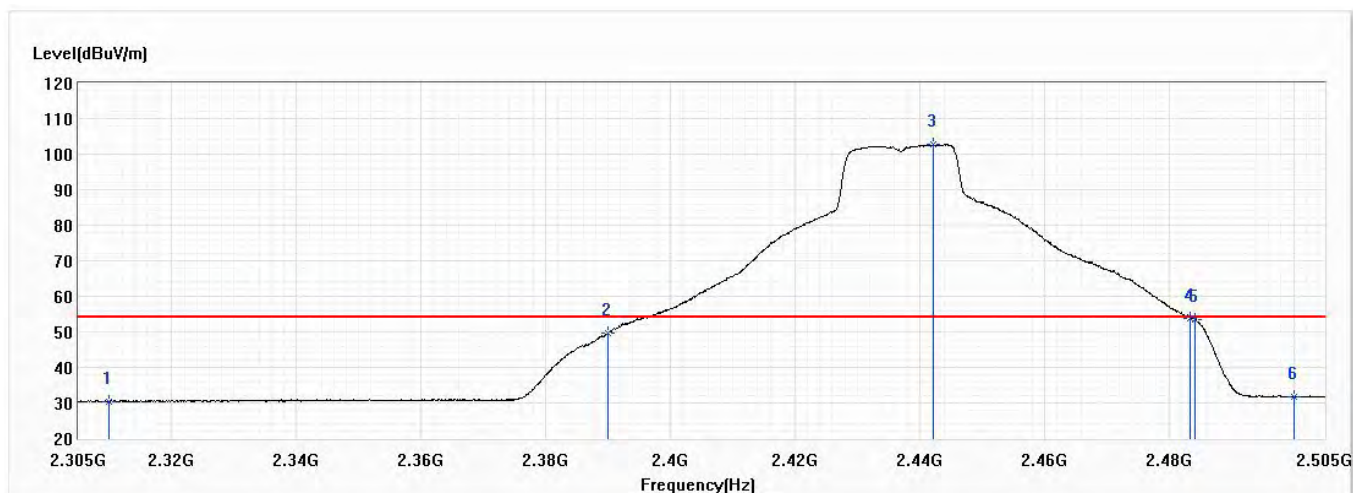


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.12	74.00	-32.88	27.97	13.15	PK
2	2390.000	66.71	74.00	-7.29	53.01	13.70	PK
! 3	2443.900	113.40	74.00	39.40	99.31	14.09	PK
4	2483.500	69.18	74.00	-4.82	54.82	14.36	PK
5	2484.300	72.12	74.00	-1.88	57.76	14.36	PK
6	2500.000	40.75	74.00	-33.25	26.27	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/9
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

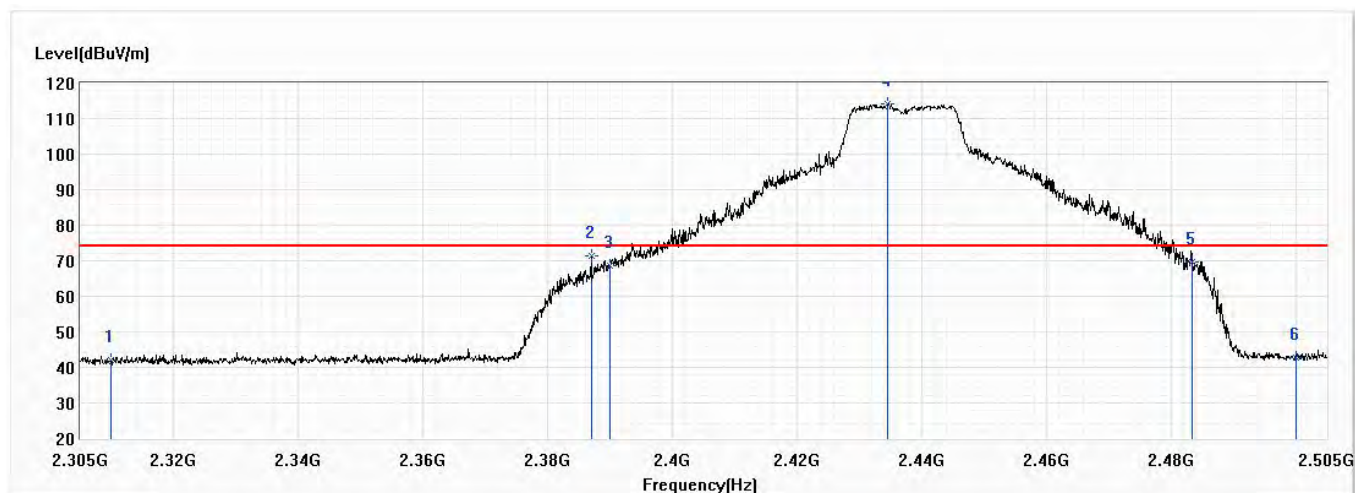


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.41	54.00	-23.59	17.26	13.15	AV
2	2390.000	49.77	54.00	-4.23	36.07	13.70	AV
3	2442.100	102.68	54.00	48.68	88.61	14.07	AV
4	2483.500	53.90	54.00	-0.10	39.54	14.36	AV
5	2484.200	53.41	54.00	-0.59	39.05	14.36	AV
6	2500.000	31.86	54.00	-22.14	17.38	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/9
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

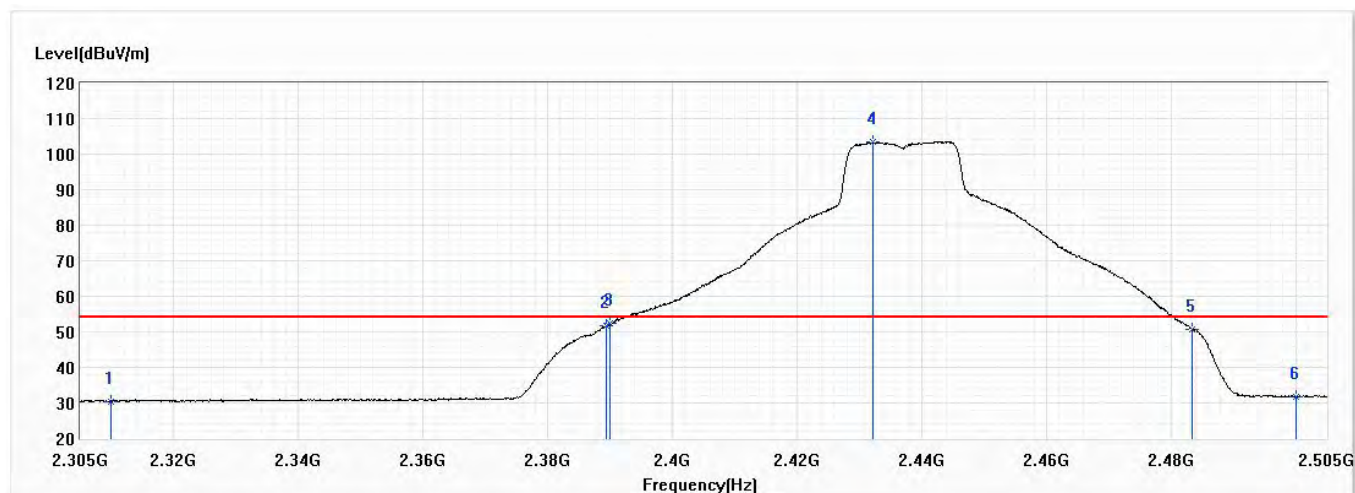


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	42.03	74.00	-31.97	28.88	13.15	PK
2	2387.000	71.22	74.00	-2.78	57.54	13.68	PK
3	2390.000	68.74	74.00	-5.26	55.04	13.70	PK
! 4	2434.600	114.22	74.00	40.22	100.21	14.01	PK
5	2483.500	69.59	74.00	-4.41	55.23	14.36	PK
6	2500.000	42.88	74.00	-31.12	28.40	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/9
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

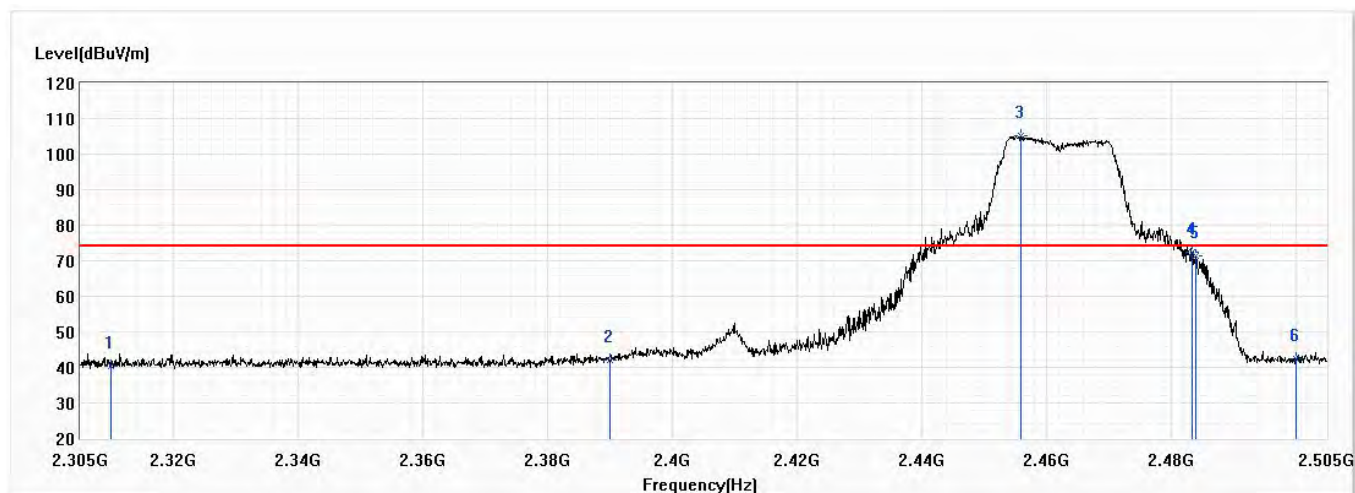


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.51	54.00	-23.49	17.36	13.15	AV
2	2389.300	51.67	54.00	-2.33	37.97	13.70	AV
3	2390.000	52.27	54.00	-1.73	38.57	13.70	AV
! 4	2432.200	103.48	54.00	49.48	89.47	14.01	AV
5	2483.500	50.84	54.00	-3.16	36.48	14.36	AV
6	2500.000	31.86	54.00	-22.14	17.38	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/9
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

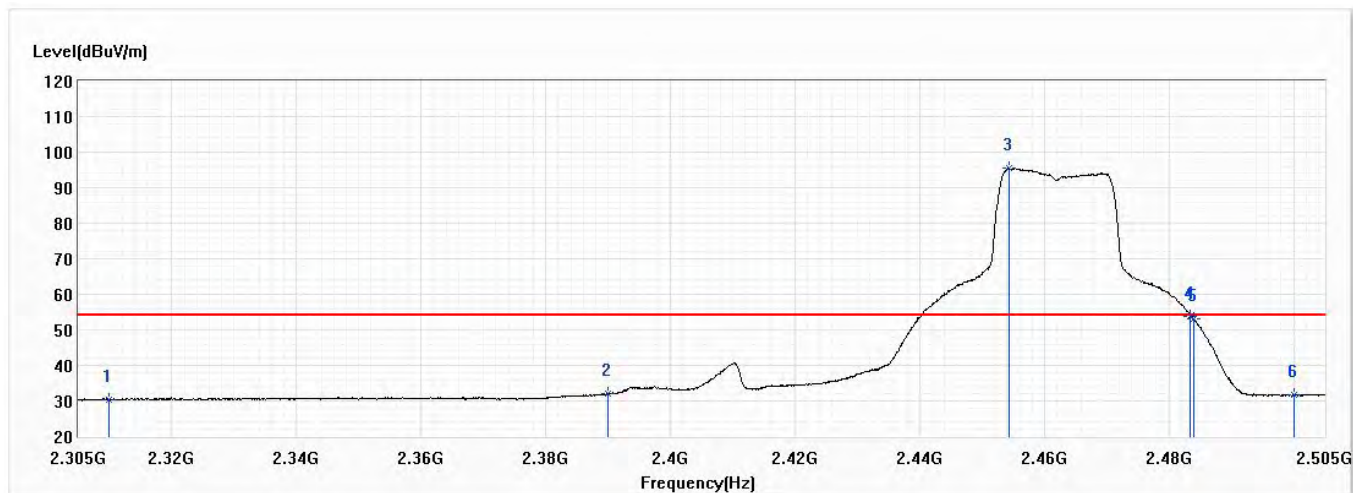


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	40.43	74.00	-33.57	27.28	13.15	PK
2	2390.000	42.10	74.00	-31.90	28.40	13.70	PK
! 3	2455.900	105.19	74.00	31.19	91.02	14.17	PK
4	2483.500	72.44	74.00	-1.56	58.08	14.36	PK
5	2484.000	71.54	74.00	-2.46	57.18	14.36	PK
6	2500.000	42.54	74.00	-31.46	28.06	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/9
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Horizontal	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

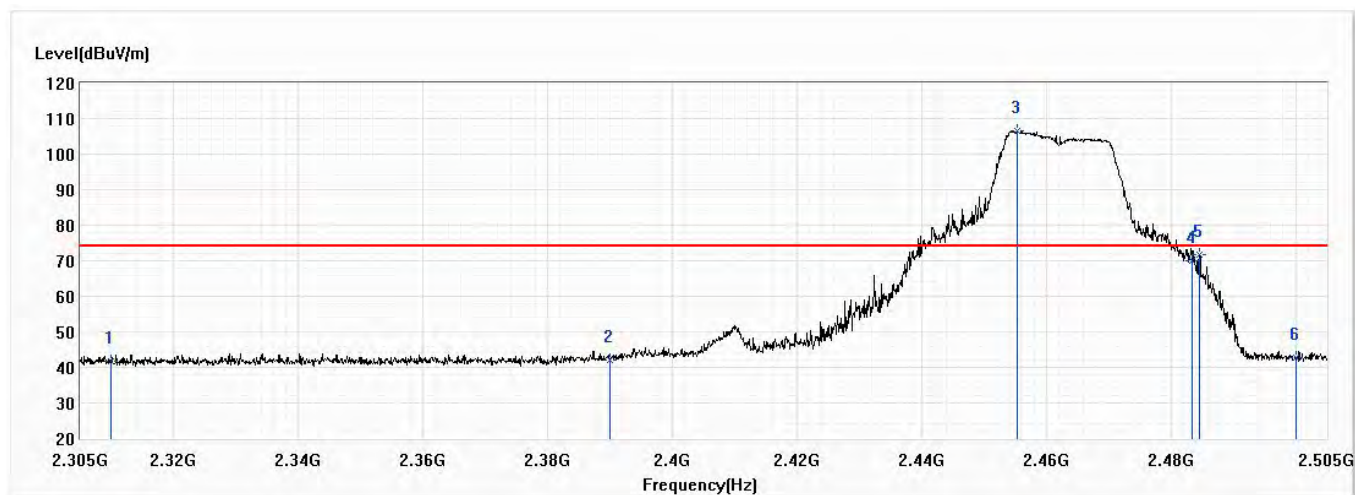


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.49	54.00	-23.51	17.34	13.15	AV
2	2390.000	31.91	54.00	-22.09	18.21	13.70	AV
! 3	2454.300	95.41	54.00	41.41	81.25	14.16	AV
4	2483.500	53.94	54.00	-0.06	39.58	14.36	AV
5	2484.000	53.10	54.00	-0.90	38.74	14.36	AV
6	2500.000	31.74	54.00	-22.26	17.26	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/9
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

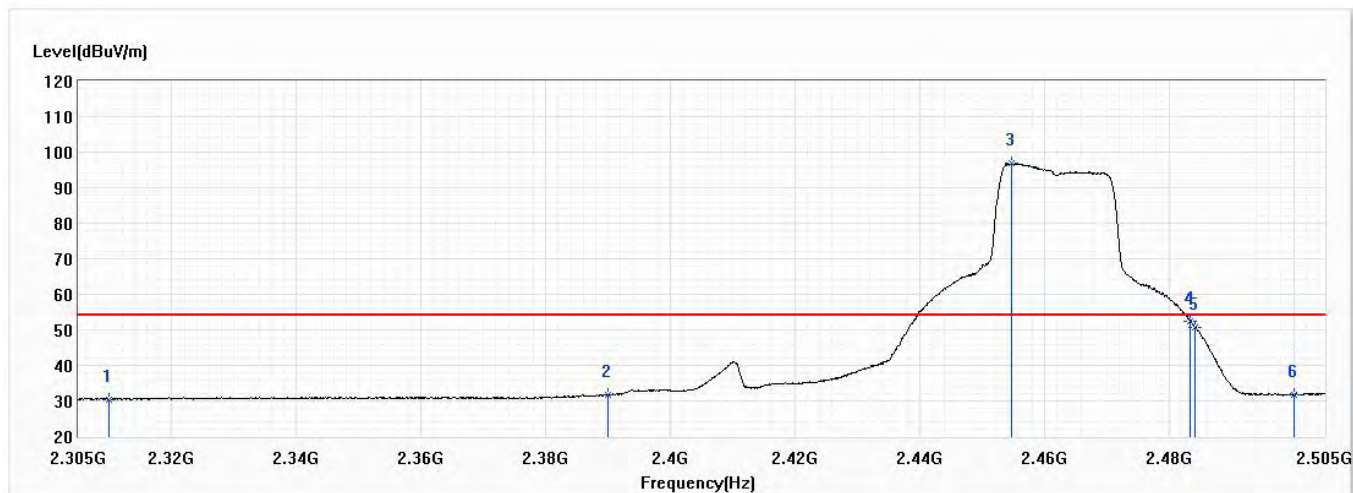


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	41.67	74.00	-32.33	28.52	13.15	PK
2	2390.000	42.09	74.00	-31.91	28.39	13.70	PK
! 3	2455.400	106.48	74.00	32.48	92.31	14.17	PK
4	2483.500	70.17	74.00	-3.83	55.81	14.36	PK
5	2484.600	71.69	74.00	-2.31	57.33	14.36	PK
6	2500.000	42.64	74.00	-31.36	28.16	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	SC Rover	Site	CB2-H
Test Voltage	DC 12V	Test Date	2020/11/9
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan.Lin
Polarity	Vertical	Temperature (°C)	25.0
Test Condition	SISO,802.11n,Ant0,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0



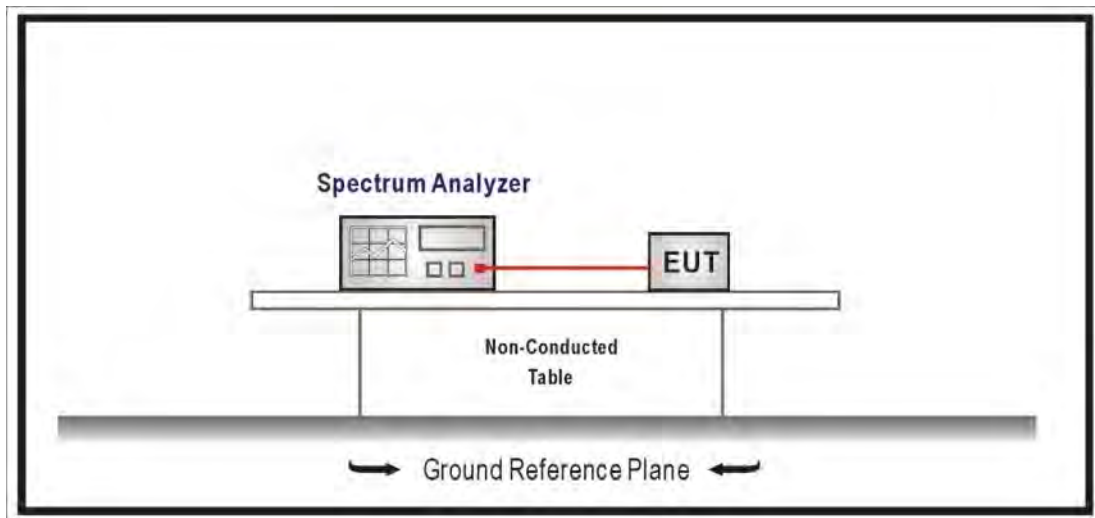
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310.000	30.45	54.00	-23.55	17.30	13.15	AV
2	2390.000	31.77	54.00	-22.23	18.07	13.70	AV
! 3	2454.700	96.75	54.00	42.75	82.58	14.17	AV
4	2483.500	52.43	54.00	-1.57	38.07	14.36	AV
5	2484.200	50.82	54.00	-3.18	36.46	14.36	AV
6	2500.000	31.75	54.00	-22.25	17.27	14.48	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

7. DTS Bandwidth

7.1. Test Setup



7.2. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested procedure section 8.1 of KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100KHz, Set the VBW $\geq 3 \times$ RBW, Sweep Time=Auto, Set Peak Detector.

7.3. Limits

The 6 dB bandwidth must be greater than 500 kHz.

7.4. Test Specification

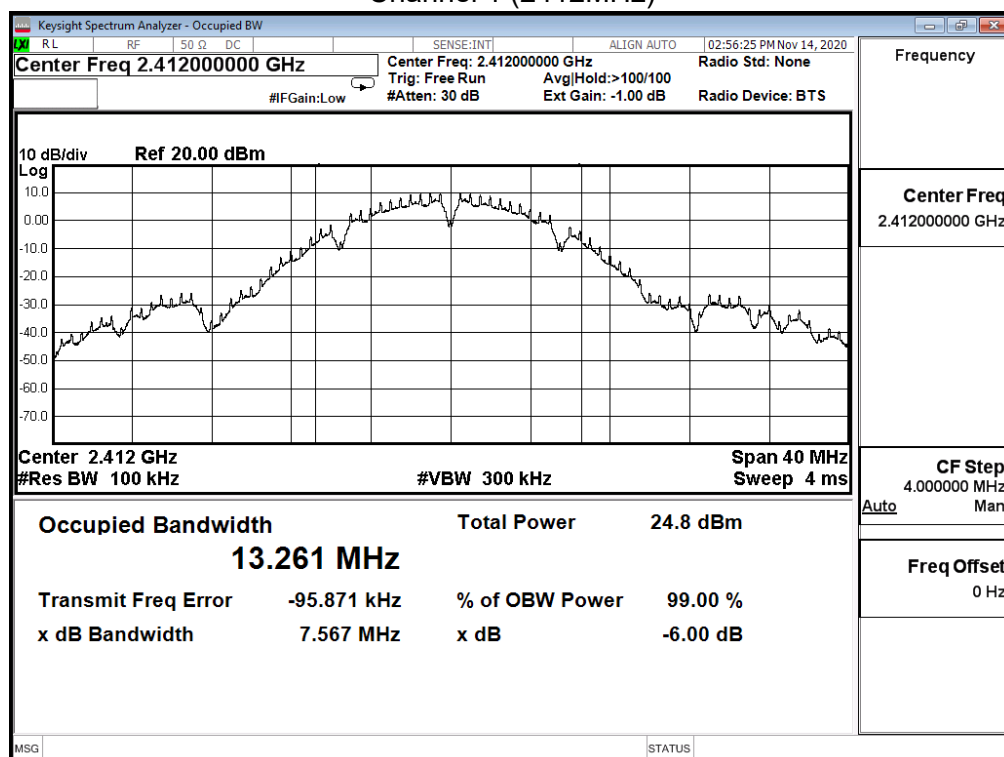
According to FCC Part 15 Subpart C Paragraph 15.247: 2019

7.5. Test Result

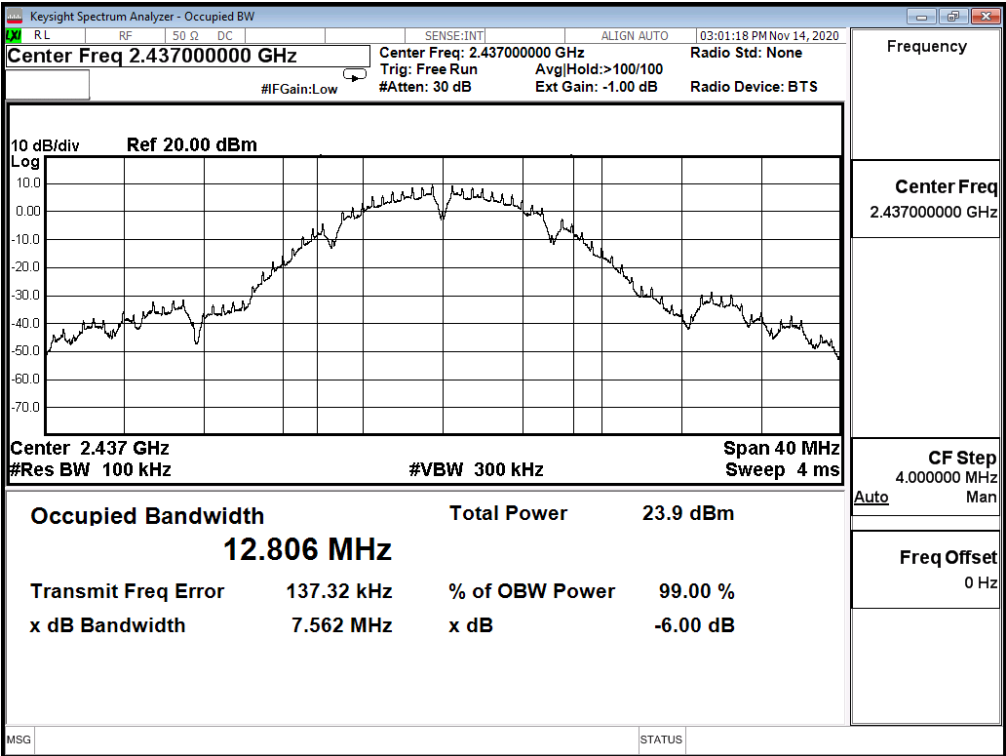
Product	Smart Construction Rover		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2020/11/14	Test Site	SR12-H
Temperature(°C)	22	Humidity (%RH)	63

802.11b(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	7.567	≥ 0.5	Pass
6	2437	7.562	≥ 0.5	Pass
11	2462	7.566	≥ 0.5	Pass

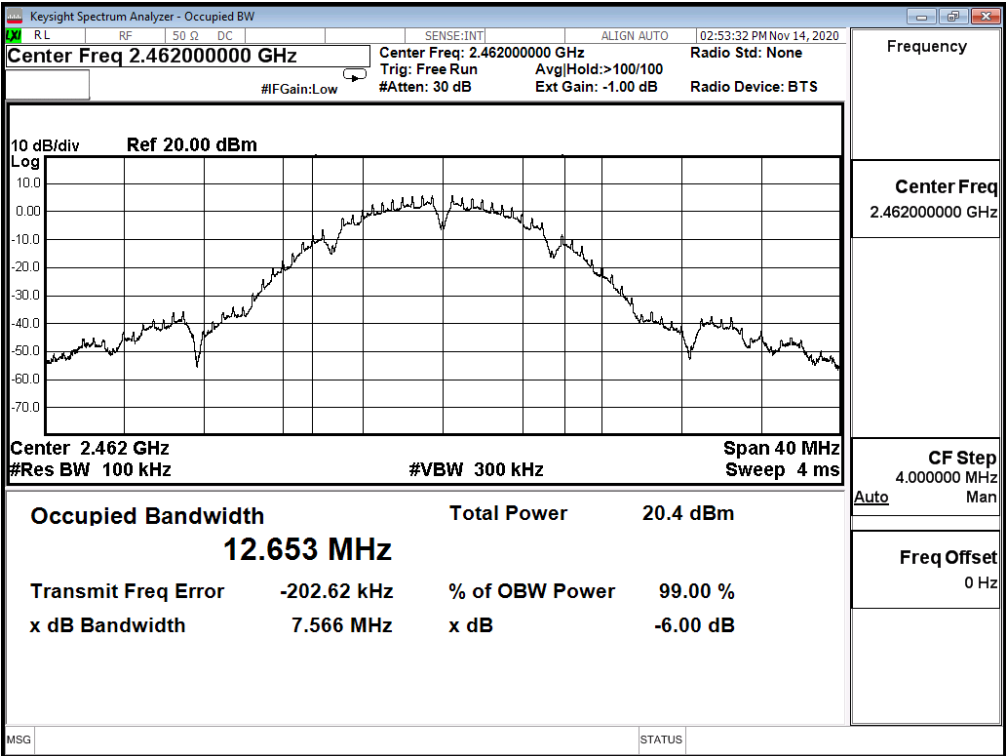
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

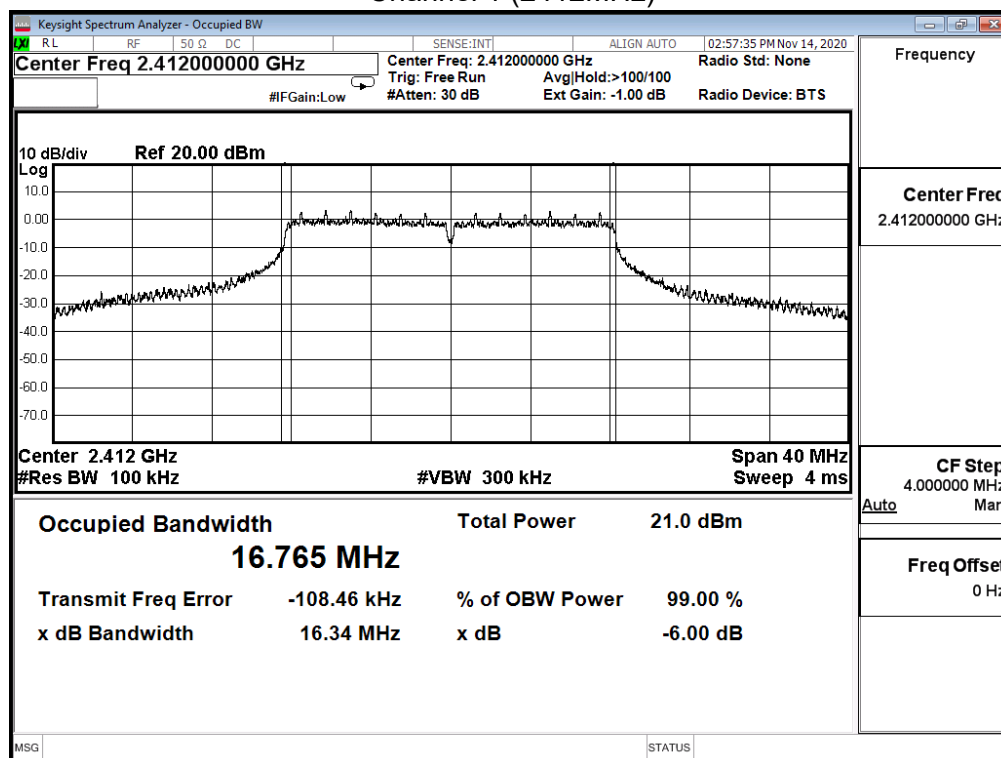


Product	Smart Construction Rover		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2020/11/14	Test Site	SR12-H
Temperature(°C)	22	Humidity (%RH)	63

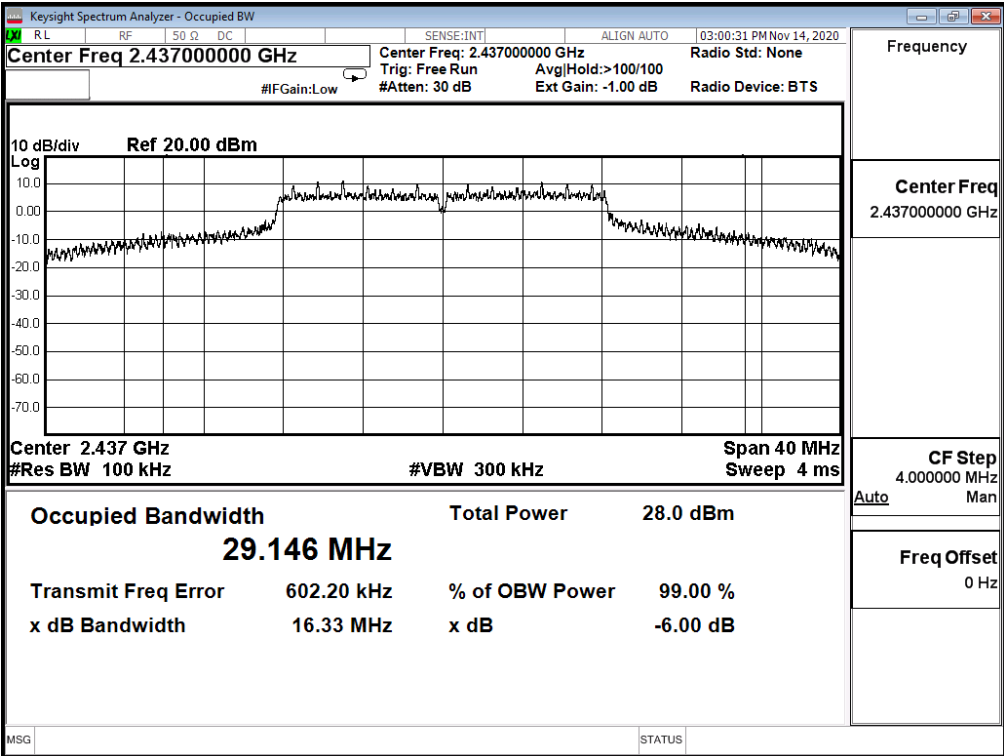
802.11g (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	16.340	≥ 0.5	Pass
6	2437	16.330	≥ 0.5	Pass
11	2462	16.300	≥ 0.5	Pass

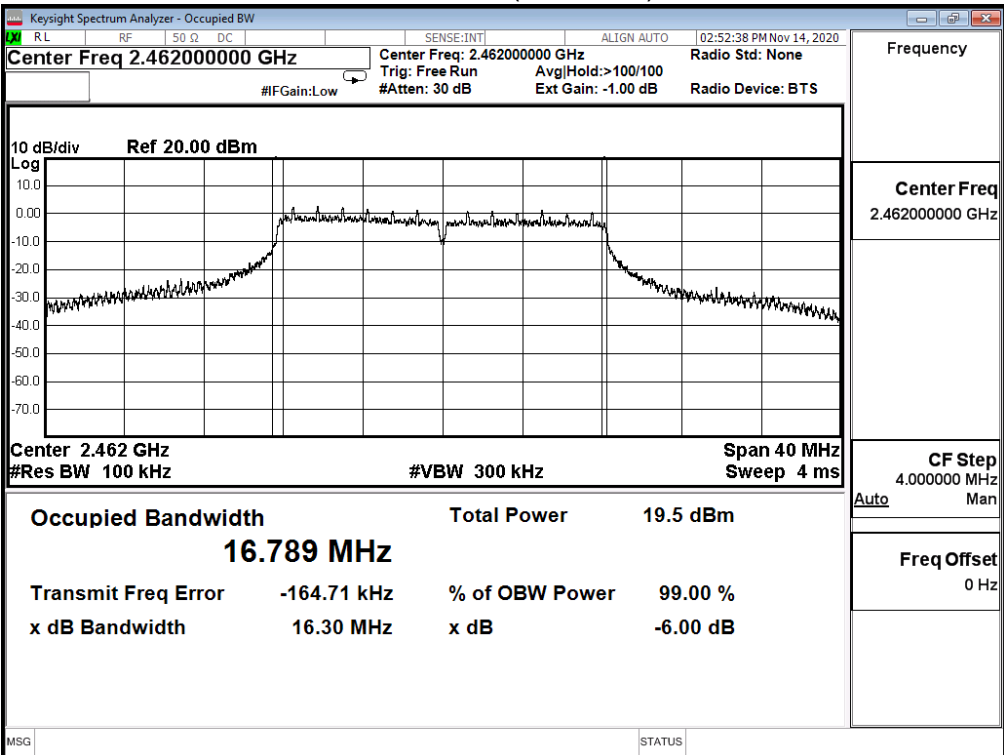
Channel 1 (2412MHz)



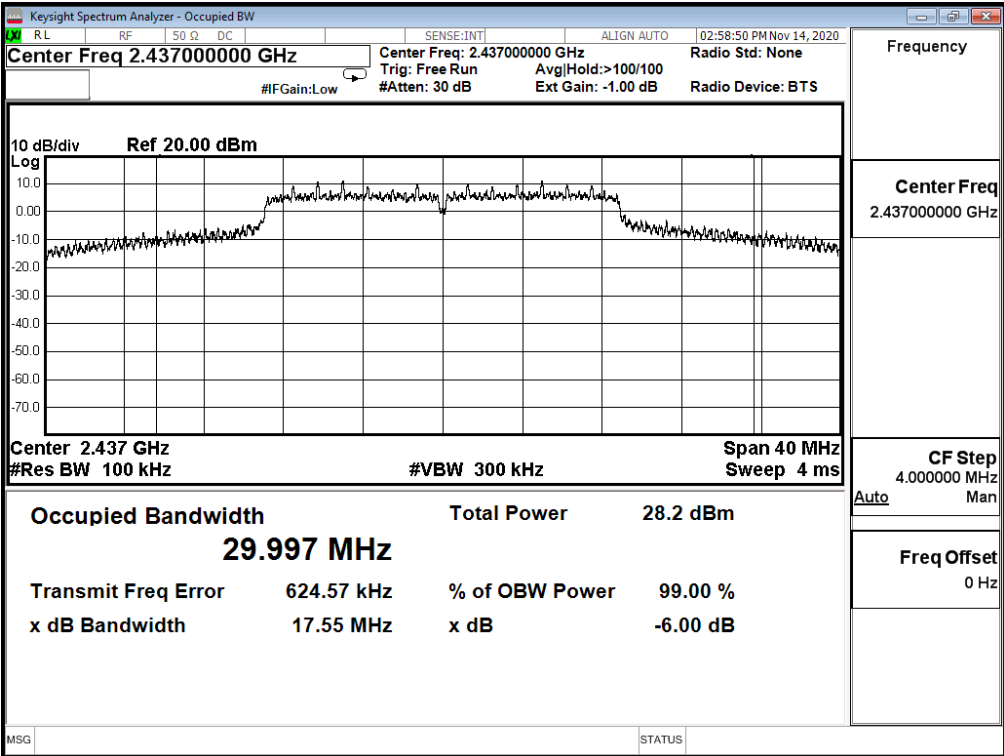
Channel 6 (2437MHz)



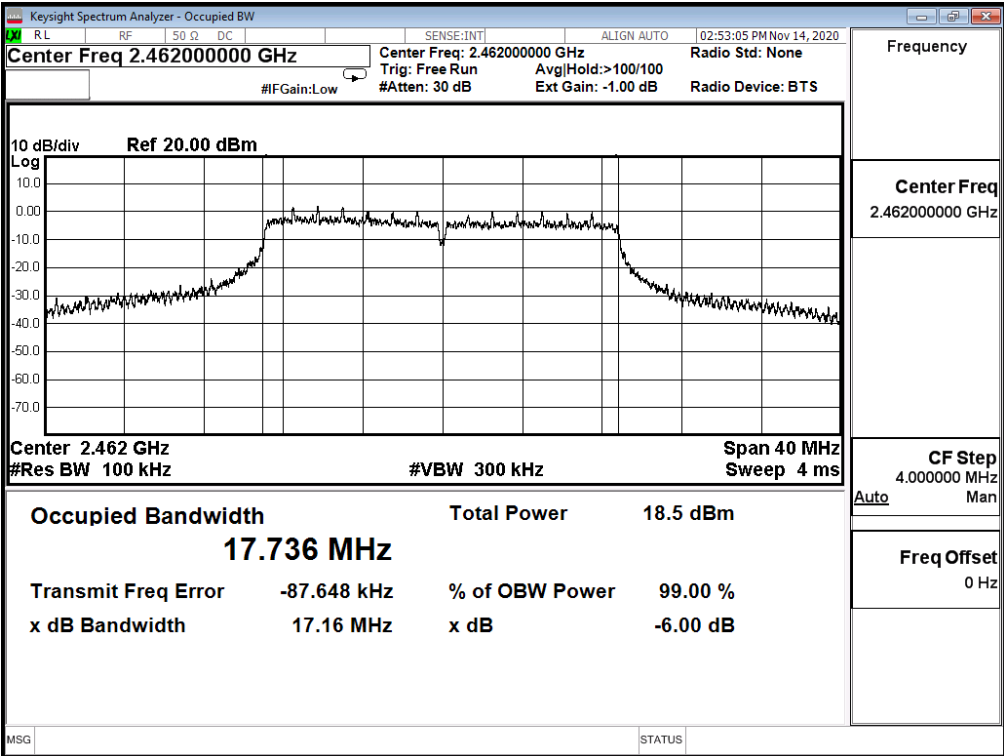
Channel 11 (2462MHz)



Channel 6 (2437MHz)

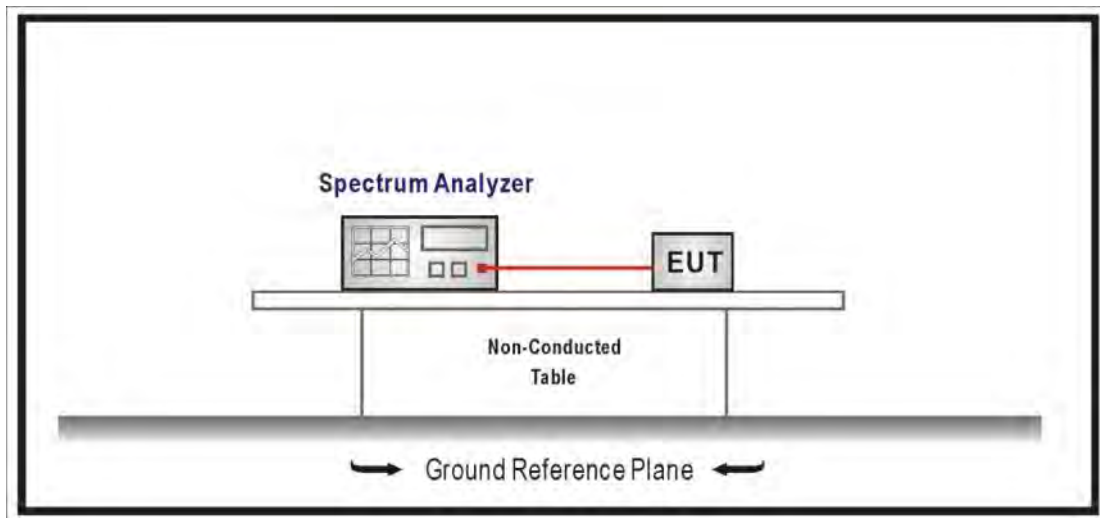


Channel 11 (2462MHz)



8. Occupied Bandwidth

8.1. Test Setup



8.2. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 1-5% of the OBW, Set the VBW $\geq 3 \times$ RBW, Sweep Time=Auto.

8.3. Limits

N/A

8.4. Test Specification

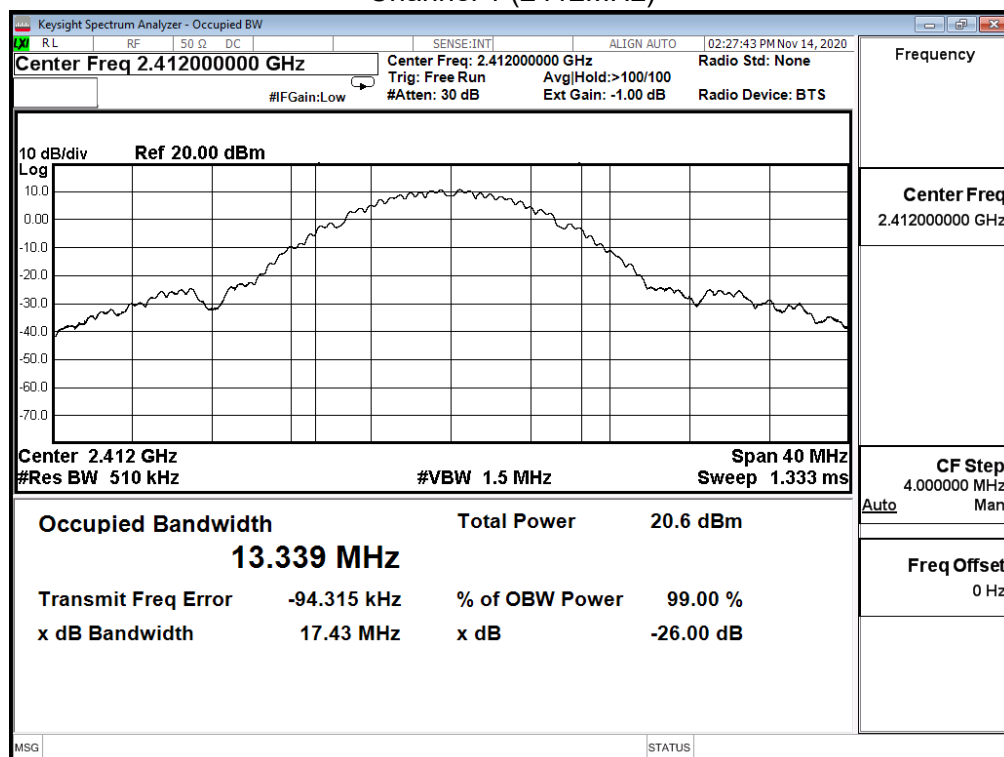
According to FCC Part 15 Subpart C Paragraph 15.247: 2019

8.5. Test Result

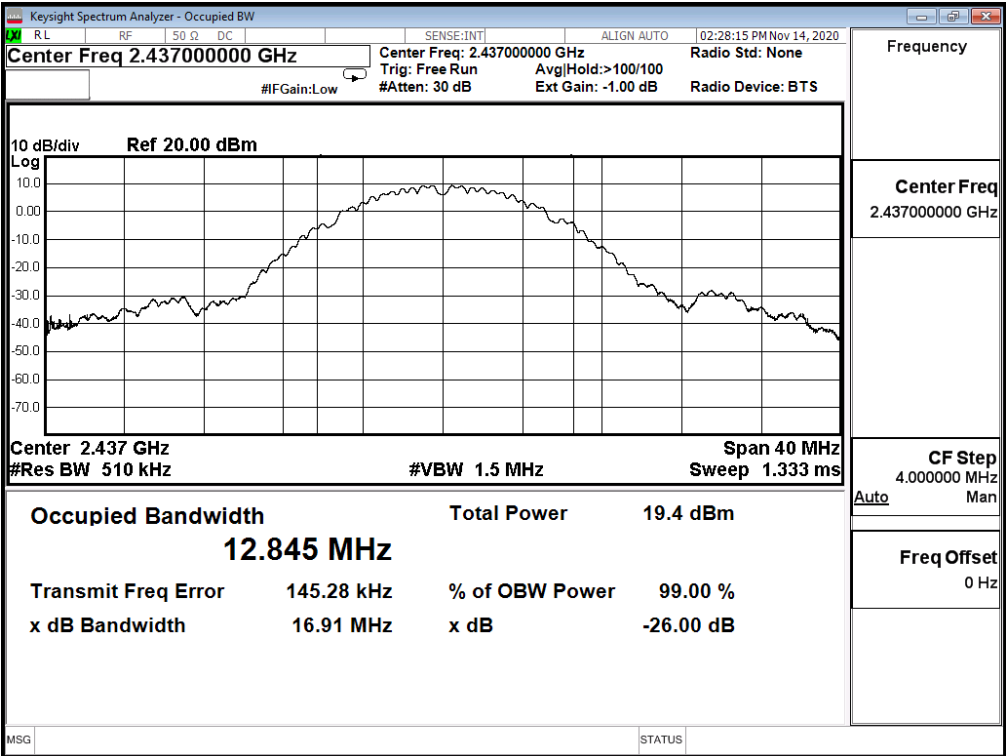
Product	Smart Construction Rover		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2020/11/14	Test Site	SR12-H
Temperature(°C)	22	Humidity (%RH)	63

802.11b(ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	13.339	---
6	2437	12.845	---
11	2462	12.668	---

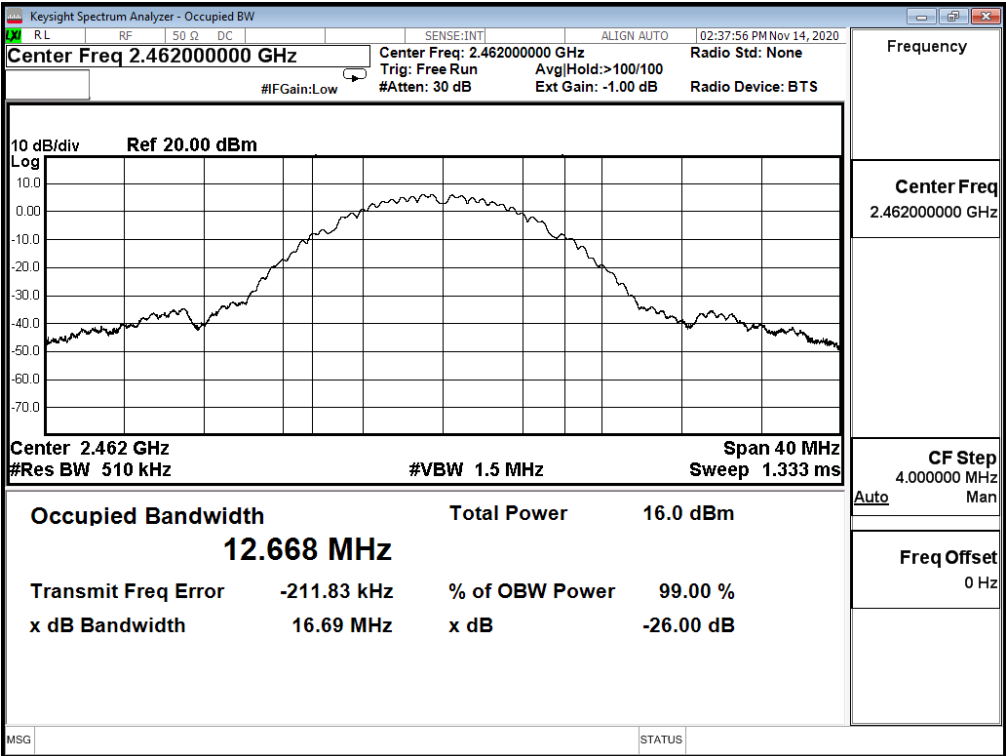
Channel 1 (2412MHz)



Channel 6 (2437MHz)



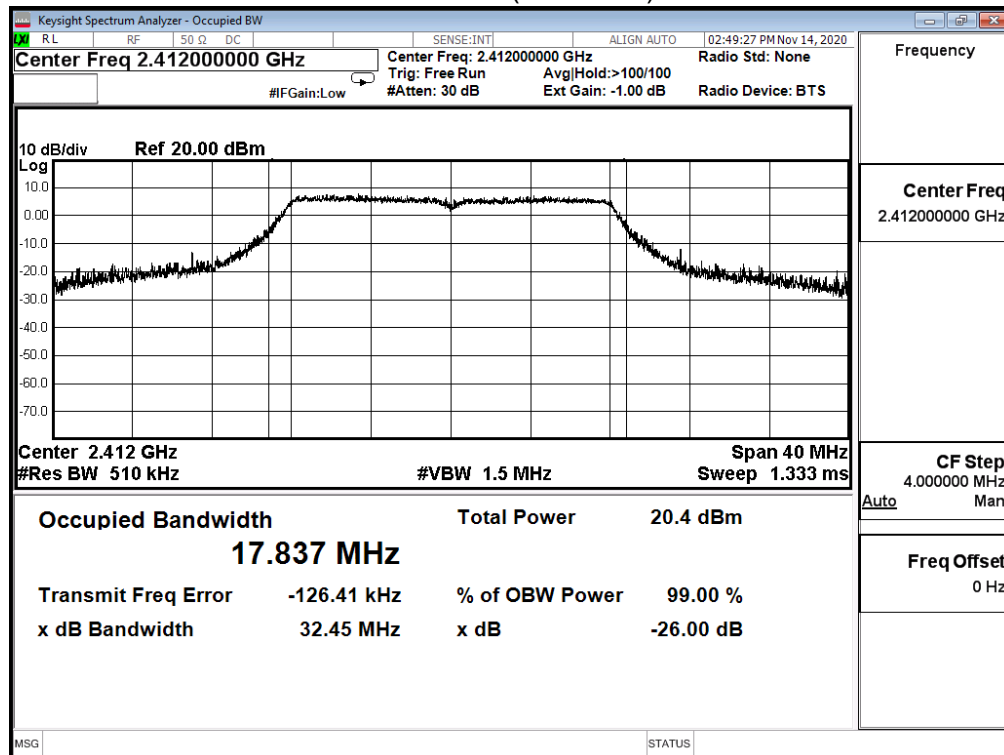
Channel 11 (2462MHz)



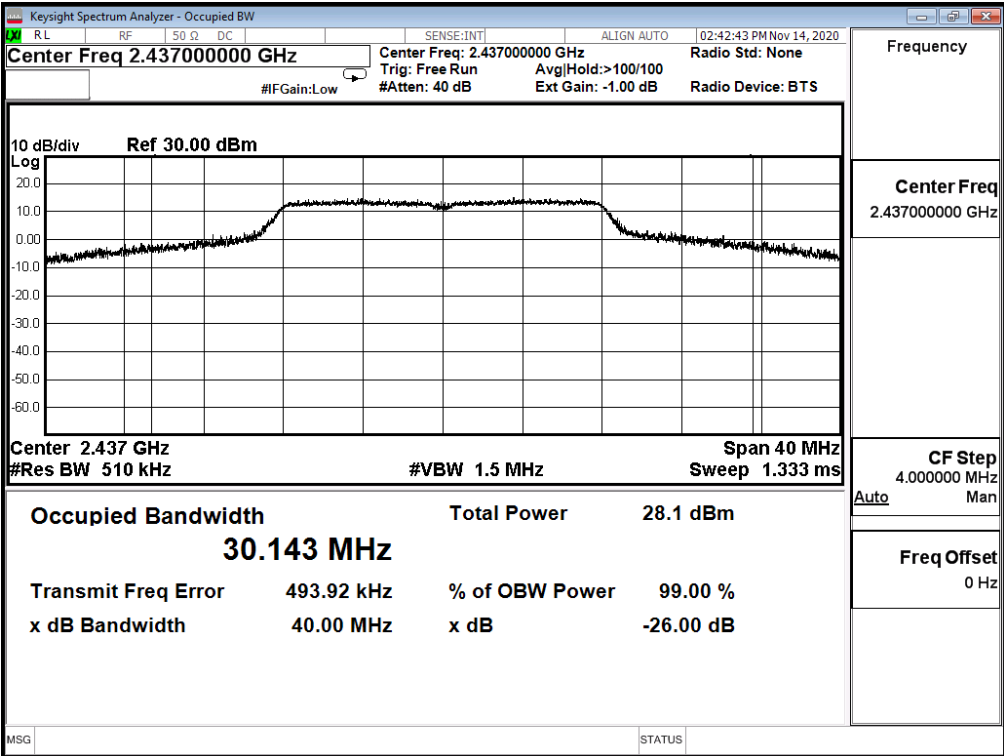
Product	Smart Construction Rover		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2020/11/14	Test Site	SR12-H
Temperature(°C)	22	Humidity (%RH)	63

802.11g(ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	17.837	---
6	2437	30.143	---
11	2462	18.187	---

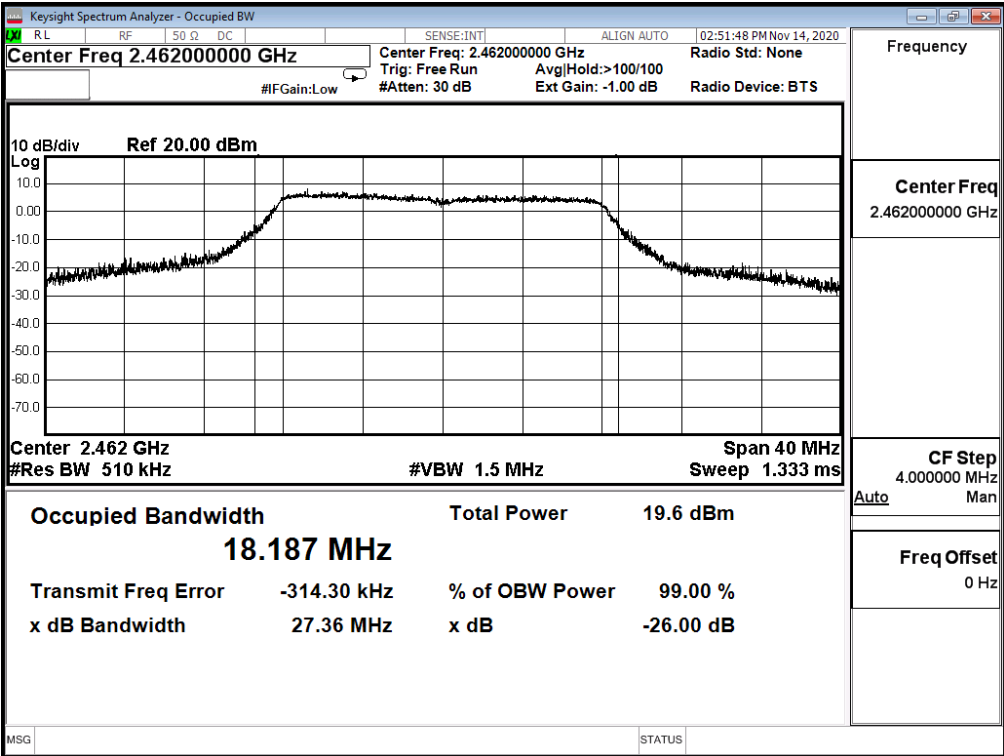
Channel 1 (2412MHz)



Channel 6 (2437MHz)



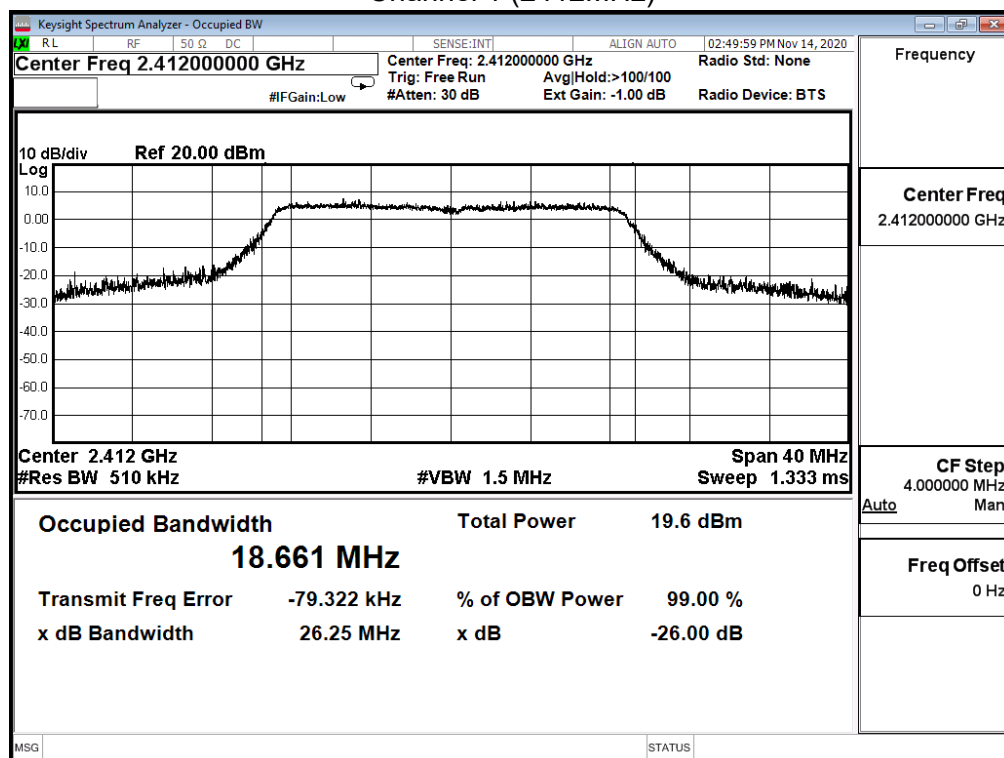
Channel 11 (2462MHz)



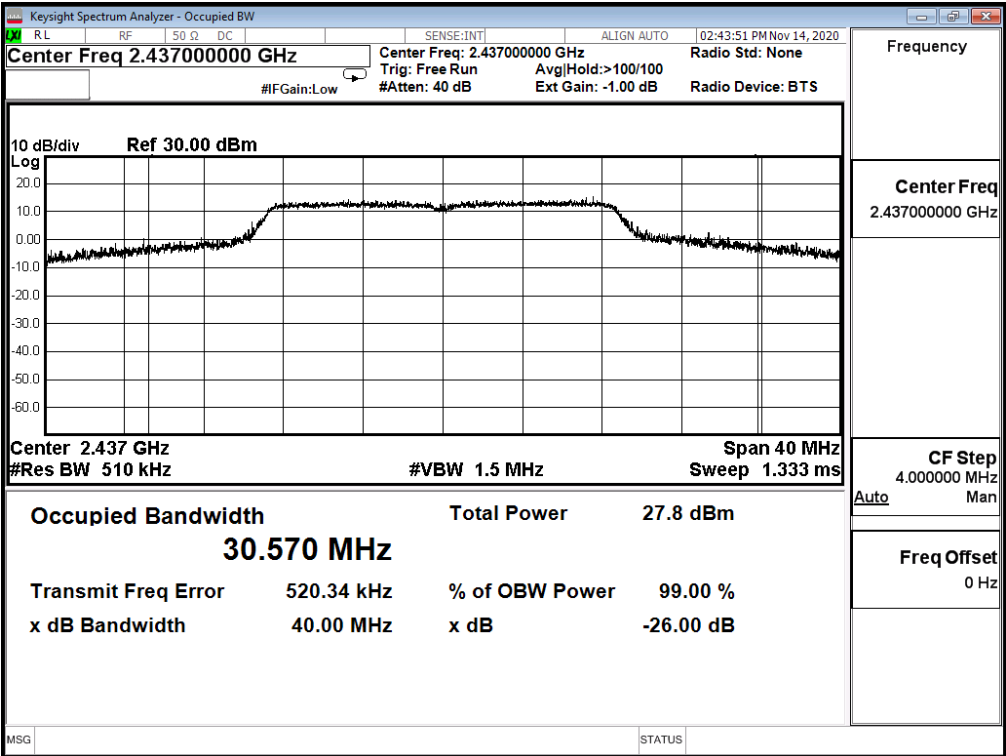
Product	Smart Construction Rover		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2020/11/14	Test Site	SR12-H
Temperature(°C)	22	Humidity (%RH)	63

IEEE 802.11n(20M)(ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	18.661	---
6	2437	30.570	---
11	2462	18.658	---

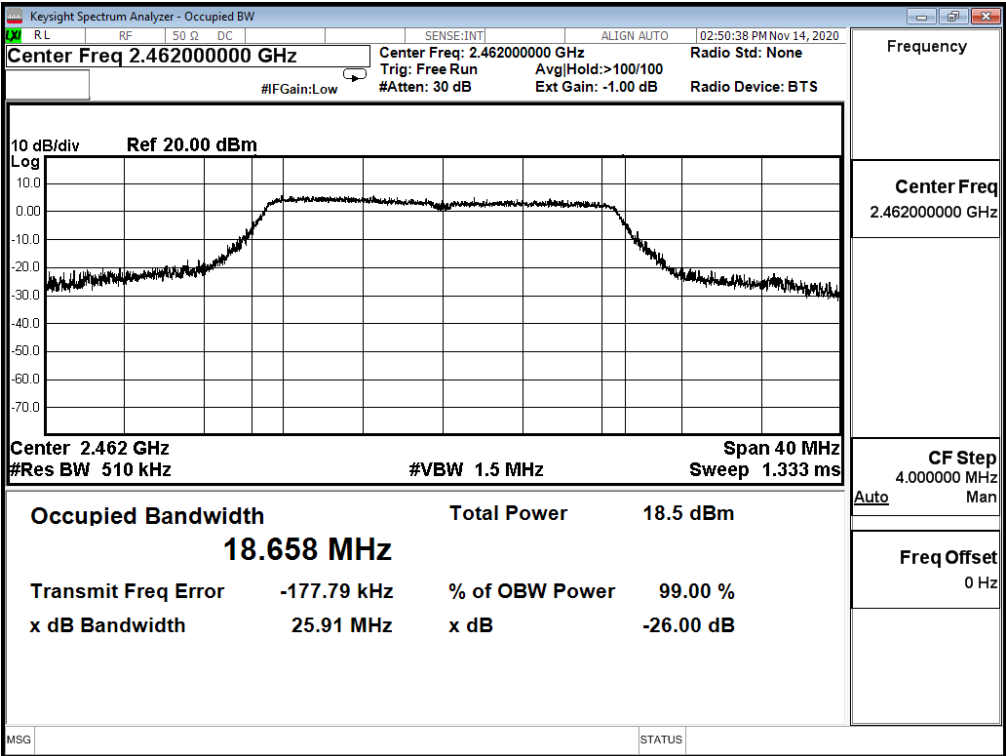
Channel 1 (2412MHz)



Channel 6 (2437MHz)

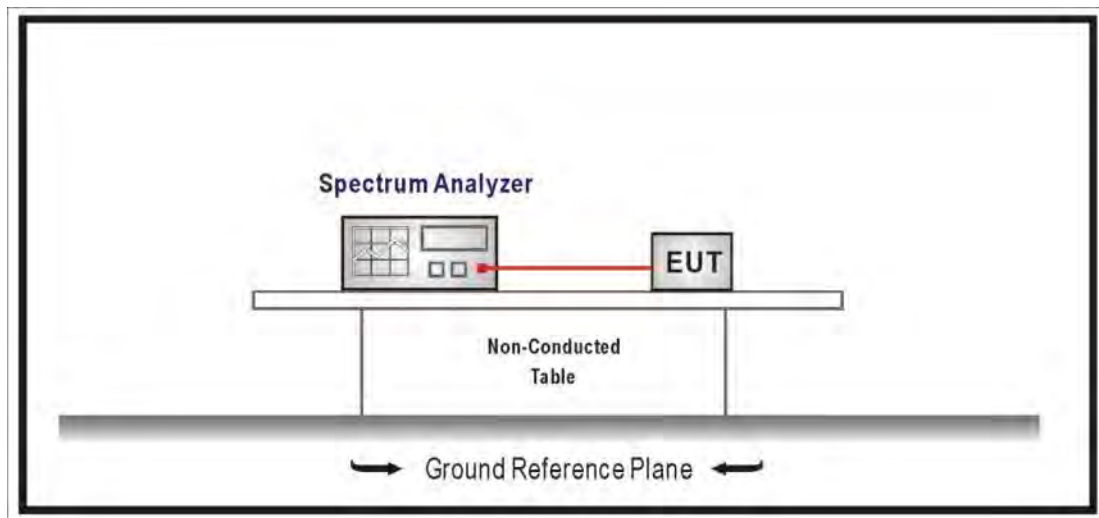


Channel 11 (2462MHz)



9. Power Density

9.1. Test Setup



9.2. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

9.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure section 10.2 of KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements.

Set 3KHz $\leq$ RBW $\leq$ 100 kHz, Set VBW $\geq$ 3xRBW, Sweep time=Auto, Set Peak detector.

9.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019

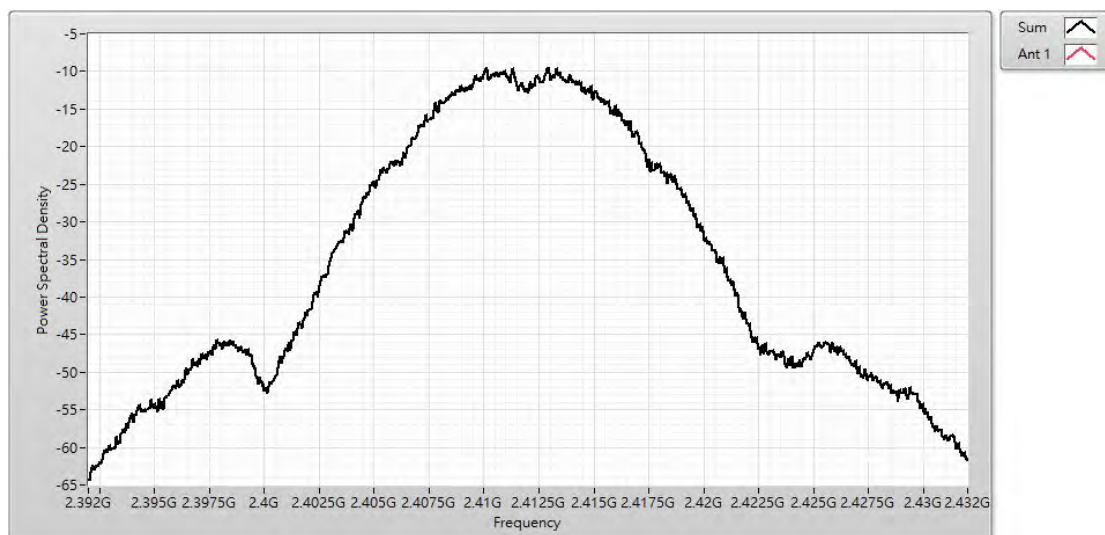
9.5. Test Result

Product	Smart Construction Rover		
Test Item	Power Density		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2020/11/14	Test Site	SR12-H
Temperature(°C)	22	Humidity (%RH)	63

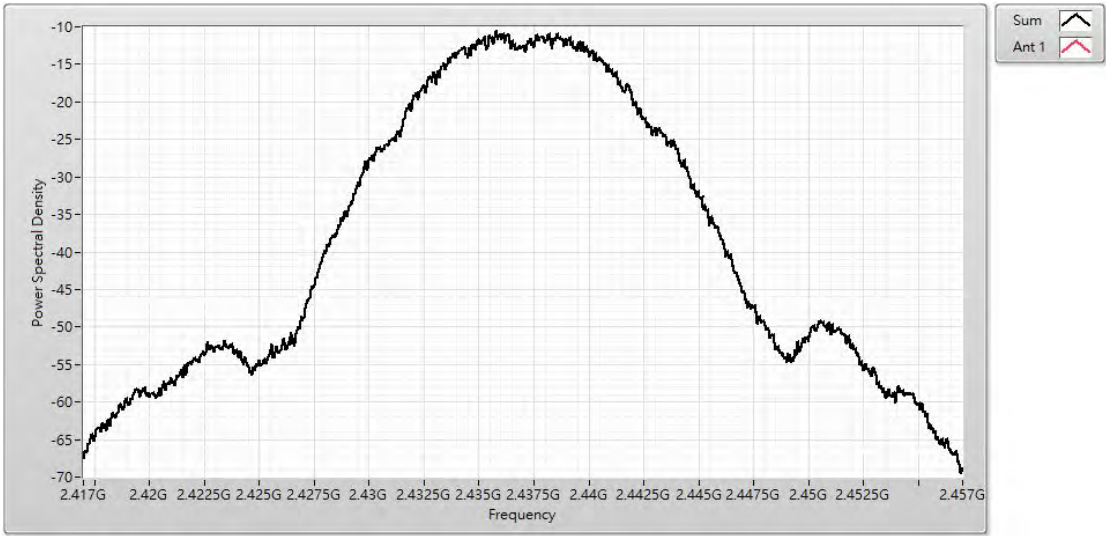
IEEE 802.11b (ANT 0)

Channel No.	Frequency (MHz)	Measure Value (dBm/10kHz)	Limit (dBm/3kHz)	Result
1	2412	-9.420	≤ 8	Pass
6	2437	-10.530	≤ 8	Pass
11	2462	-13.960	≤ 8	Pass

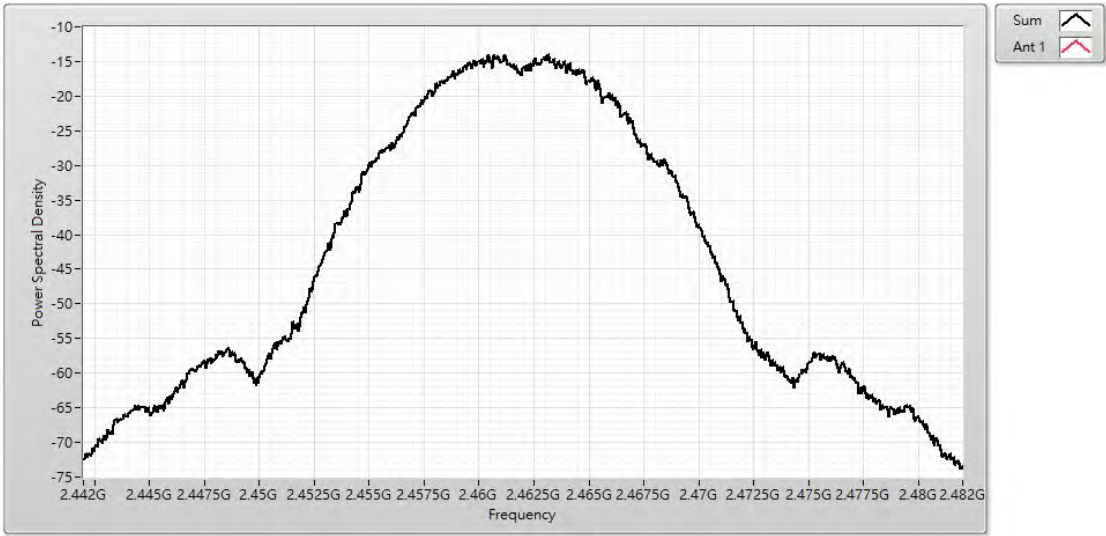
Channel 1 (2412MHz)



Channel 6 (2437MHz)



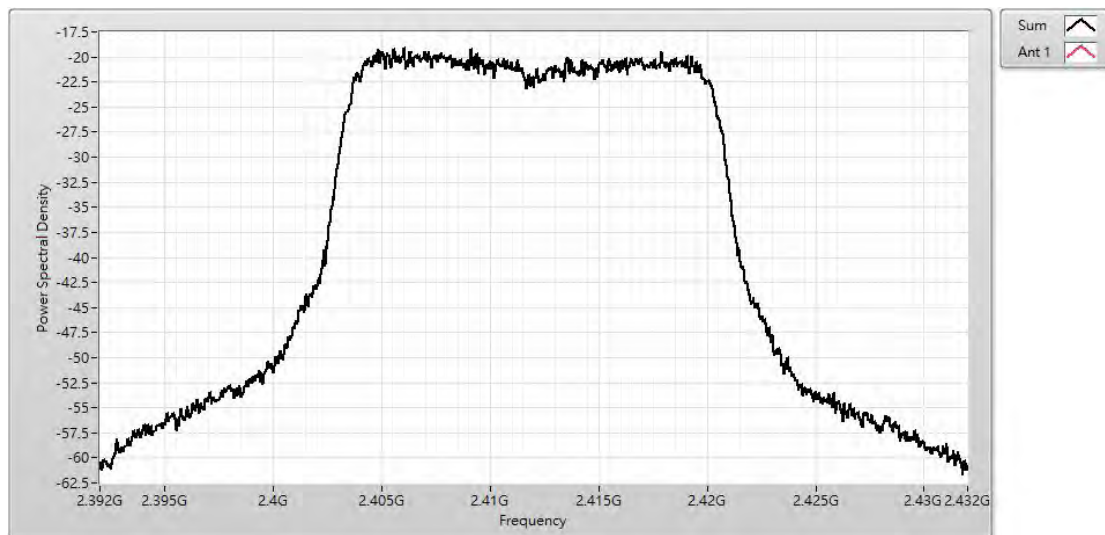
Channel 11 (2462MHz)



Product	Smart Construction Rover		
Test Item	Power Density		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2020/11/14	Test Site	SR12-H
Temperature(°C)	22	Humidity (%RH)	63

IEEE 802.11g (ANT 0)				
Channel No.	Frequency (MHz)	Measure Value (dBm/10kHz)	Limit (dBm/3kHz)	Result
1	2412	-19.090	≤ 8	Pass
6	2437	-10.600	≤ 8	Pass
11	2462	-18.050	≤ 8	Pass

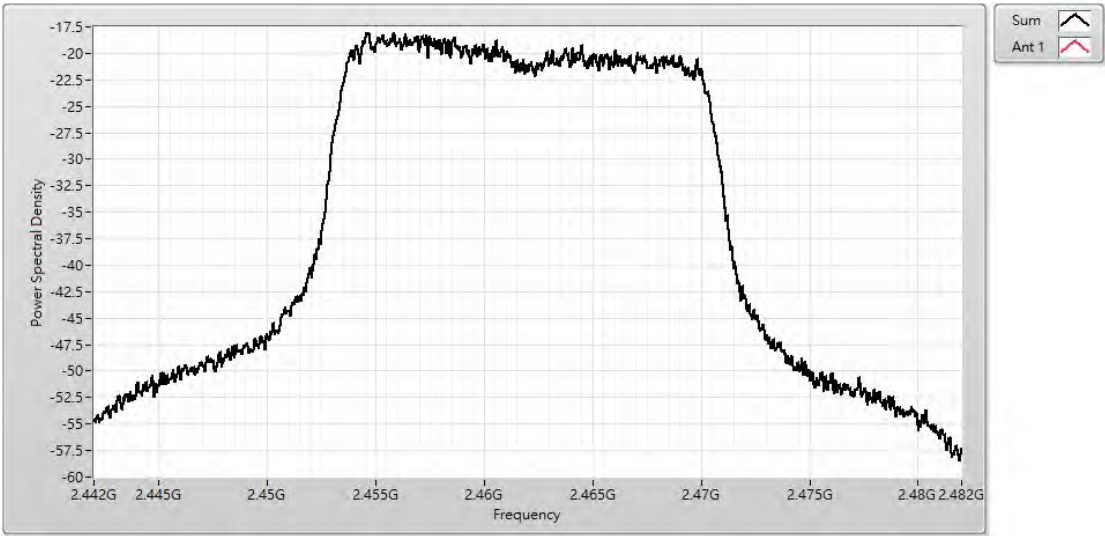
Channel 1 (2412MHz)



Channel 6 (2437MHz)



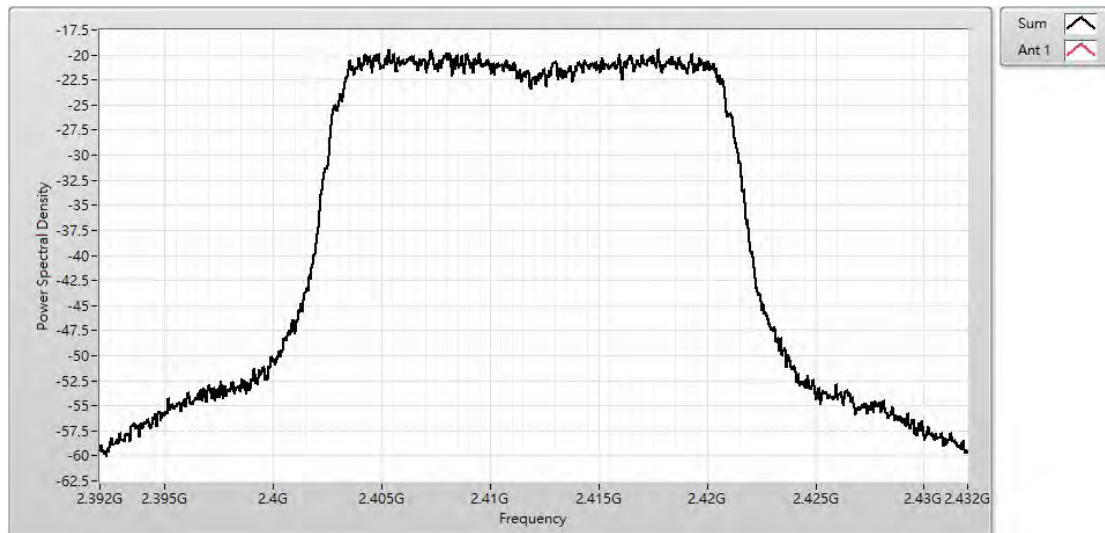
Channel 11 (2462MHz)



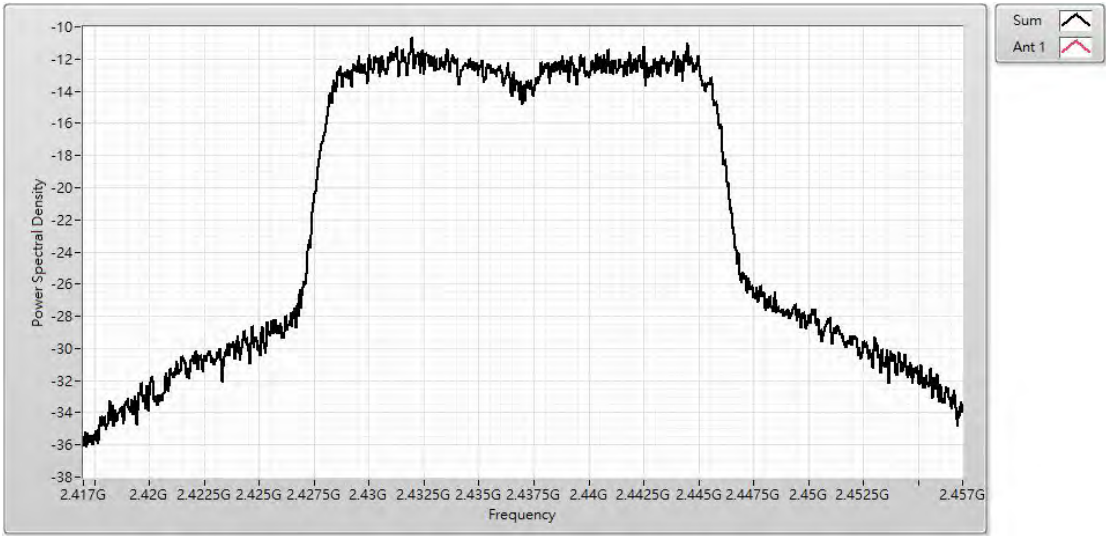
Product	Smart Construction Rover		
Test Item	Power Density		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2020/11/14	Test Site	SR12-H
Temperature(°C)	22	Humidity (%RH)	63

IEEE 802.11n(20M)(ANT 0)				
Channel No.	Frequency (MHz)	Measure Value (dBm/10kHz)	Limit (dBm/3kHz)	Result
1	2412	-19.430	≤ 8	Pass
6	2437	-10.650	≤ 8	Pass
11	2462	-18.820	≤ 8	Pass

Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

