

FCC Radio Test Report

FCC ID: 2AJ9Z-X11

Original Grant

Report No. : TB-FCC156189
Applicant : EMATIC LIMITED
Equipment Under Test (EUT)
EUT Name : ROCK X11
Model No. : ROCK X11
Series Model No. : N/A
Brand Name : EXTREM
Receipt Date : 2017-06-23
Test Date : 2017-06-24 to 2017-07-09
Issue Date : 2017-07-10
Standards : FCC Part 15, Subpart C (15.247:2016)
Test Method : ANSI C63.10: 2013
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above,
The EUT technically complies with the FCC and IC requirements

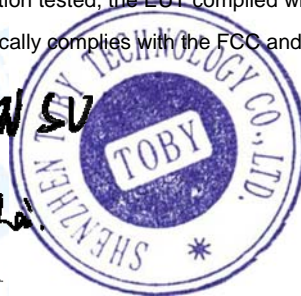
Test/Witness Engineer :

Wan Su

**Approved &
Authorized**

:

Luqin



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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1. General Information about EUT

1.1 Client Information

Applicant : EMATIC LIMITED
Address : Unit 17, 9/F Tower A, New Mandarin Plaza NO, 14 Science Museum Rd, TST, Hong Kong, China
Manufacturer : EMATIC LIMITED
Address : Unit 17, 9/F Tower A, New Mandarin Plaza NO, 14 Science Museum Rd, TST, Hong Kong, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	ROCK X11	
Models No.	:	ROCK X11	
Model Difference	:	N/A	
Product Description	:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
		Number of Channel:	802.11b/g/n(HT20):11 channels <i>see note(3)</i> 802.11n(HT40):9 channels <i>see note(3)</i>
		RF Output Power:	802.11b: 16.91 dBm 802.11g: 13.38 dBm 802.11n (HT20): 12.85 dBm 802.11n (HT40): 12.22 dBm
		Antenna Gain:	1.15 dBi PIFA Antenna
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n:OFDM(BPSK,QPSK,16QAM, 64QAM)
		Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps
		Power Supply	:
Power Rating	:	AC/DC Adapter(A138A-120150U-US2): Input: AC 100~240V 50/60Hz, 0.5A. Output: 5V/2.5A&9V/2A&12V/1.5A. DC 3.8V from 10000mA Li-ion battery.	
Connecting Port(S)	I/O :	Please refer to the User's Manual	

Note:

(1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v04.

(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

(3) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		

Note: CH 01~CH 11 for 802.11b/g/n(HT20)
CH 03~CH 09 for 802.11n(HT40)

(4) The Antenna information about the equipment is provided by the applicant.

1.3 Block Diagram Showing the Configuration of System Tested

Charging+TX Mode



1.4 Description of Support Units

The EUT has been test as an independent unit.

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test	
Final Test Mode	Description
Mode 1	Charging with TX B Mode

For Radiated Test	
Final Test Mode	Description
Mode 2	TX Mode B Mode Channel 01/06/11
Mode 3	TX Mode G Mode Channel 01/06/11
Mode 4	TX Mode N(HT20) Mode Channel 01/06/11
Mode 5	TX Mode N(HT40) Mode Channel 03/06/09

Note:

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, Middle, lowest available channels, and the worst case data rate as follows:

- 802.11b Mode: CCK (1 Mbps)
- 802.11g Mode: OFDM (6 Mbps)
- 802.11n (HT20) Mode: MCS 0 (6.5 Mbps)
- 802.11n (HT40) Mode: MCS 0 (13 Mbps)

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a fixed unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

1.6 Description of Test Software Setting

During testing channel&Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN.

Test Software Version	***3646633***		
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	DEF	DEF	DEF
IEEE 802.11g OFDM	DEF	DEF	DEF
IEEE 802.11n (HT20)	DEF	DEF	DEF
Channel	CH 03	CH 06	CH 09
IEEE 802.11n (HT40)	DEF	DEF	DEF

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U_{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	± 3.42 dB ± 3.42 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.40 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.20 dB

1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

2. Test Summary

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1				
Standard Section		Test Item	Judgment	Remark
FCC	IC			
15.203	/	Antenna Requirement	PASS	N/A
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.247(d)	RSS 247 5.5	Band Edge	PASS	N/A
15.247(d)& 15.209	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A

Note: “/” for no requirement for this test item.
N/A is an abbreviation for Not Applicable.

3. Test Equipment

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 22, 2016	Jul. 21, 2017
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 22, 2016	Jul. 21, 2017
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 22, 2016	Jul. 21, 2017
LISN	Rohde & Schwarz	ENV216	101131	Jul. 22, 2016	Jul. 21, 2017
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.25, 2017	Mar. 24, 2018
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar.25, 2017	Mar. 24, 2018
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.24, 2017	Mar. 23, 2018
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.24, 2017	Mar. 23, 2018
Loop Antenna	Laplace instrument	RF300	0701	Mar.24, 2017	Mar. 23, 2018
Pre-amplifier	Sonoma	310N	185903	Mar.24, 2017	Mar. 23, 2018
Pre-amplifier	HP	8449B	3008A00849	Mar.25, 2017	Mar. 24, 2018
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.24, 2017	Mar. 23, 2018
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Power Meter	Anritsu	ML2495A	25406005	Jul. 22, 2016	Jul. 21, 2017
Power Sensor	Anritsu	ML2411B	25406005	Jul. 22, 2016	Jul. 21, 2017

4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1 Test Standard

FCC Part 15.207

4.1.2 Test Limit

Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

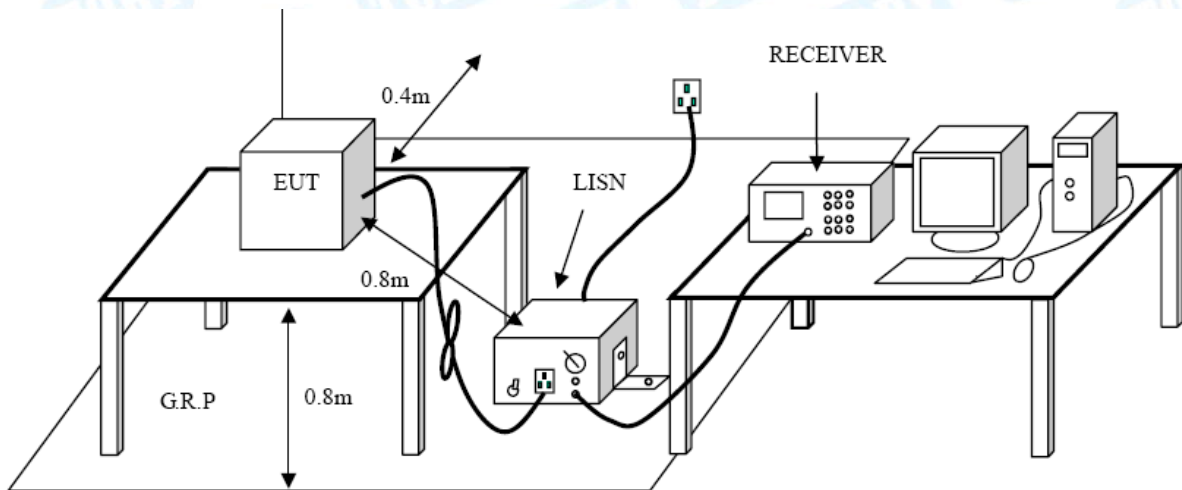
Notes:

(1) *Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequencies.

(3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2 Test Setup



4.3 Test Procedure

The EUT was placed 0.8m from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

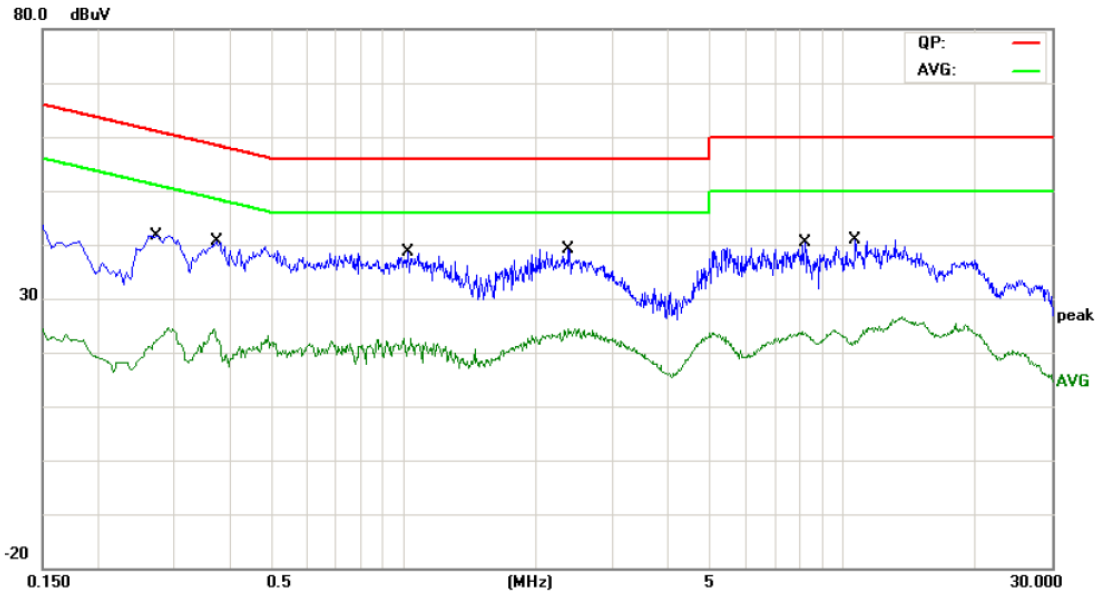
4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

Please see the next page.

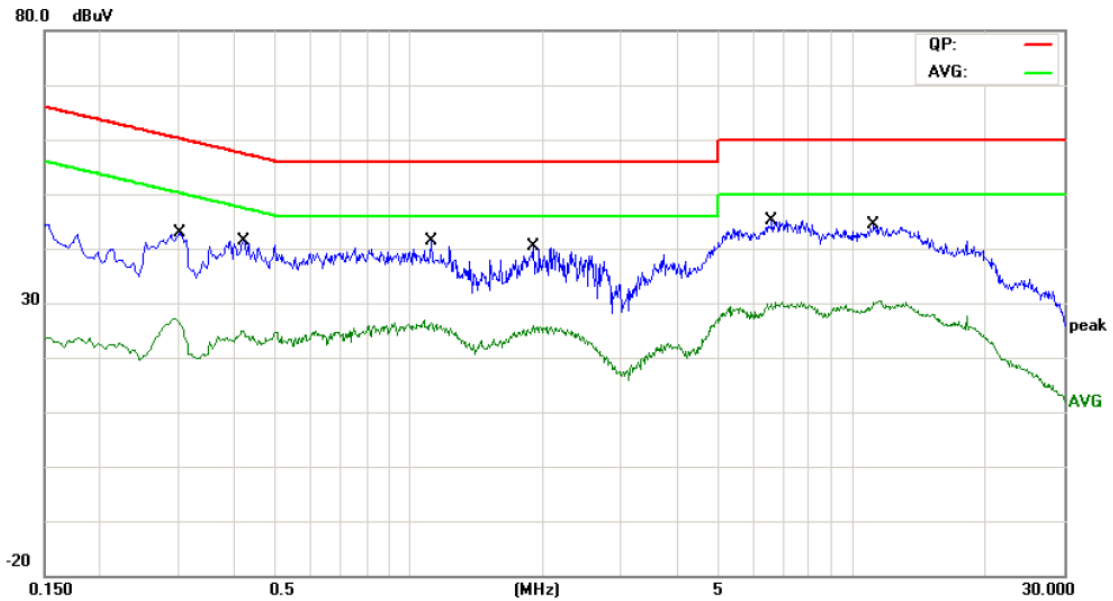
EUT:	ROCK X11	Model Name :	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Line		
Test Mode:	Charging with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2740	27.05	9.59	36.64	60.99	-24.35	QP
2		0.2740	12.46	9.59	22.05	50.99	-28.94	AVG
3	*	0.3740	26.27	9.60	35.87	58.41	-22.54	QP
4		0.3740	12.11	9.60	21.71	48.41	-26.70	AVG
5		1.0260	23.17	9.60	32.77	56.00	-23.23	QP
6		1.0260	11.10	9.60	20.70	46.00	-25.30	AVG
7		2.3780	22.30	9.62	31.92	56.00	-24.08	QP
8		2.3780	13.50	9.62	23.12	46.00	-22.88	AVG
9		8.2299	20.27	9.94	30.21	60.00	-29.79	QP
10		8.2299	12.61	9.94	22.55	50.00	-27.45	AVG
11		10.6860	18.22	10.11	28.33	60.00	-31.67	QP
12		10.6860	11.12	10.11	21.23	50.00	-28.77	AVG

Emission Level= Read Level+ Correct Factor

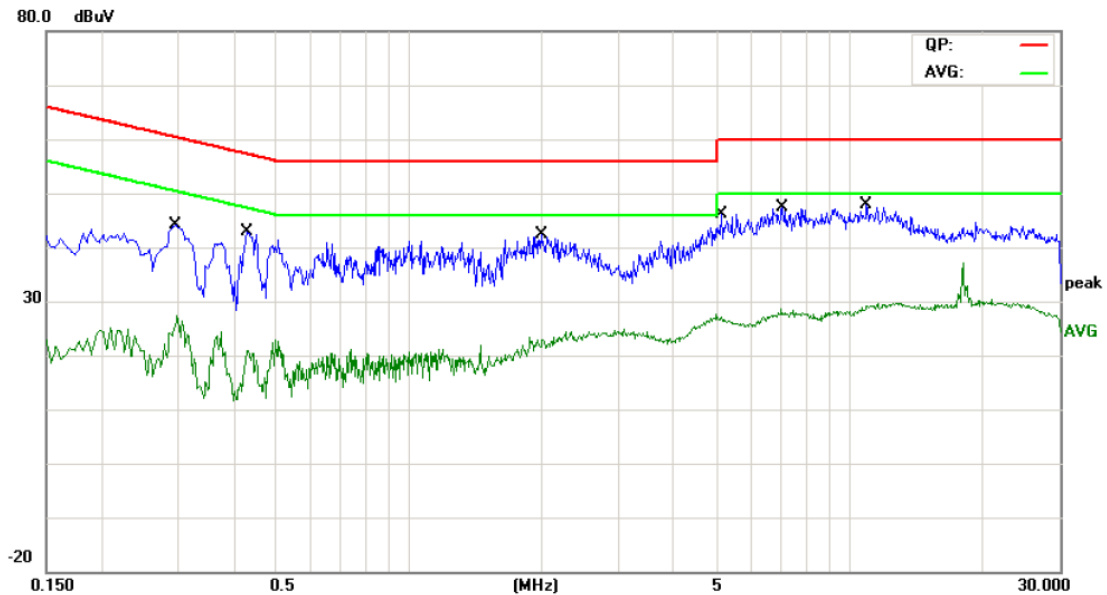
EUT:	ROCK X11	Model Name :	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Neutral		
Test Mode:	Charging with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.3020	28.45	9.57	38.02	60.19	-22.17	QP
2		0.3020	16.36	9.57	25.93	50.19	-24.26	AVG
3		0.4220	26.10	9.58	35.68	57.41	-21.73	QP
4		0.4220	14.67	9.58	24.25	47.41	-23.16	AVG
5		1.1180	24.32	9.59	33.91	56.00	-22.09	QP
6	*	1.1180	15.68	9.59	25.27	46.00	-20.73	AVG
7		1.8980	22.42	9.61	32.03	56.00	-23.97	QP
8		1.8980	15.22	9.61	24.83	46.00	-21.17	AVG
9		6.5780	28.41	10.21	38.62	60.00	-21.38	QP
10		6.5780	18.24	10.21	28.45	50.00	-21.55	AVG
11		11.1420	27.74	10.32	38.06	60.00	-21.94	QP
12		11.1420	18.34	10.32	28.66	50.00	-21.34	AVG

Emission Level= Read Level+ Correct Factor

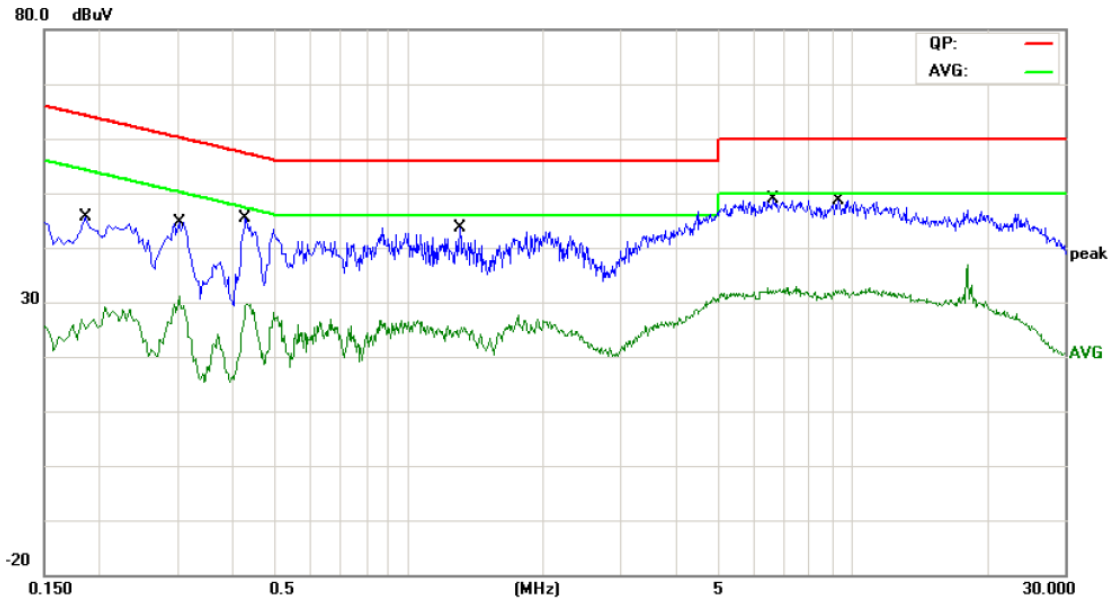
EUT:	ROCK X11	Model Name :	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 240V/60Hz		
Terminal:	Line		
Test Mode:	Charging with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2940	29.82	9.59	39.41	60.41	-21.00	QP
2		0.2940	15.27	9.59	24.86	50.41	-25.55	AVG
3	*	0.4300	27.40	9.60	37.00	57.25	-20.25	QP
4		0.4300	10.51	9.60	20.11	47.25	-27.14	AVG
5		1.9980	23.67	9.61	33.28	56.00	-22.72	QP
6		1.9980	11.49	9.61	21.10	46.00	-24.90	AVG
7		5.1180	25.72	9.75	35.47	60.00	-24.53	QP
8		5.1180	16.32	9.75	26.07	50.00	-23.93	AVG
9		7.0260	27.35	9.86	37.21	60.00	-22.79	QP
10		7.0260	16.74	9.86	26.60	50.00	-23.40	AVG
11		10.9140	26.90	10.13	37.03	60.00	-22.97	QP
12		10.9140	17.55	10.13	27.68	50.00	-22.32	AVG

Emission Level= Read Level+ Correct Factor

EUT:	ROCK X11	Model Name :	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 240V/60Hz		
Terminal:	Neutral		
Test Mode:	Charging with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1860	28.28	9.65	37.93	64.21	-26.28	QP
2		0.1860	15.88	9.65	25.53	54.21	-28.68	AVG
3		0.3020	30.87	9.57	40.44	60.19	-19.75	QP
4		0.3020	20.21	9.57	29.78	50.19	-20.41	AVG
5		0.4260	29.20	9.58	38.78	57.33	-18.55	QP
6		0.4260	19.05	9.58	28.63	47.33	-18.70	AVG
7		1.2980	23.80	9.60	33.40	56.00	-22.60	QP
8		1.2980	14.45	9.60	24.05	46.00	-21.95	AVG
9	*	6.5940	31.85	10.21	42.06	60.00	-17.94	QP
10		6.5940	20.38	10.21	30.59	50.00	-19.41	AVG
11		9.2739	31.03	10.25	41.28	60.00	-18.72	QP
12		9.2739	20.27	10.25	30.52	50.00	-19.48	AVG

Emission Level= Read Level+ Correct Factor

5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard

FCC Part 15.209

5.1.2 Test Limit

Radiated Emission Limits (9 kHz~1000 MHz)

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

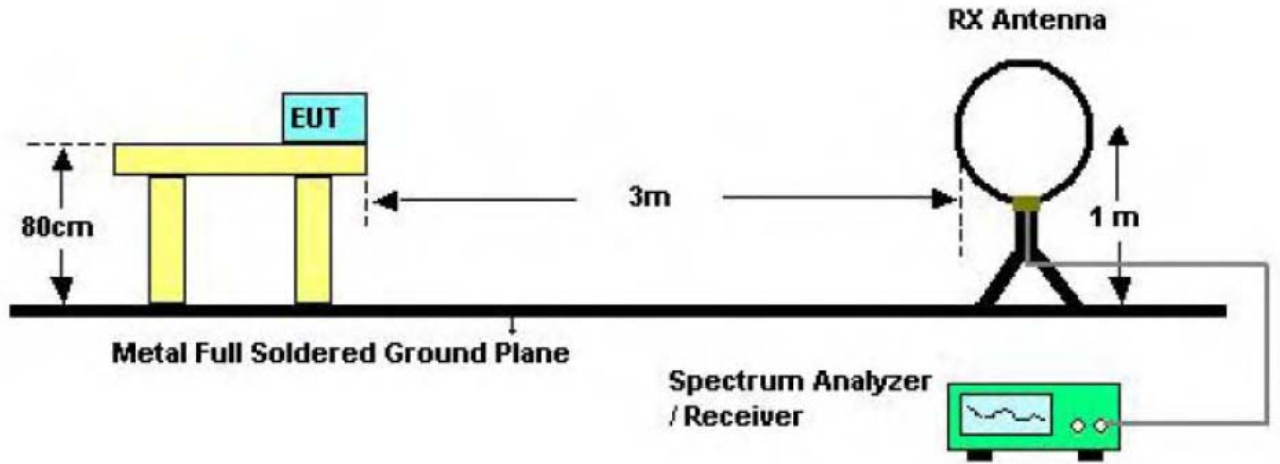
Radiated Emission Limit (Above 1000MHz)

Frequency (MHz)	Distance of 3m (dBuV/m)	
	Peak	Average
Above 1000	74	54

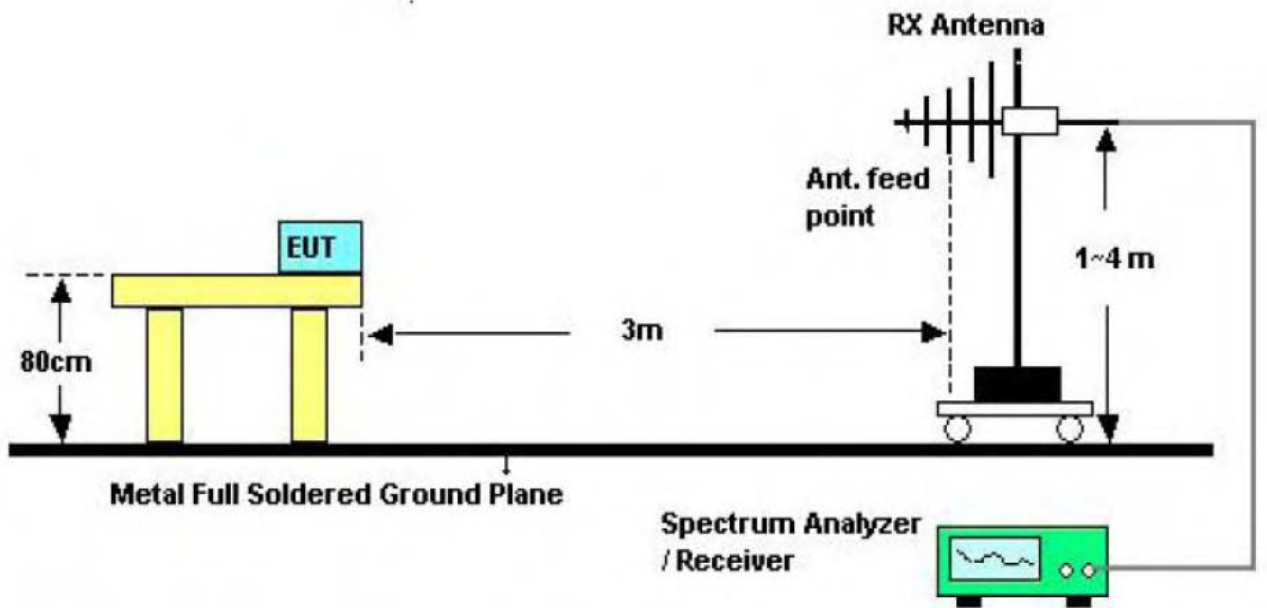
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

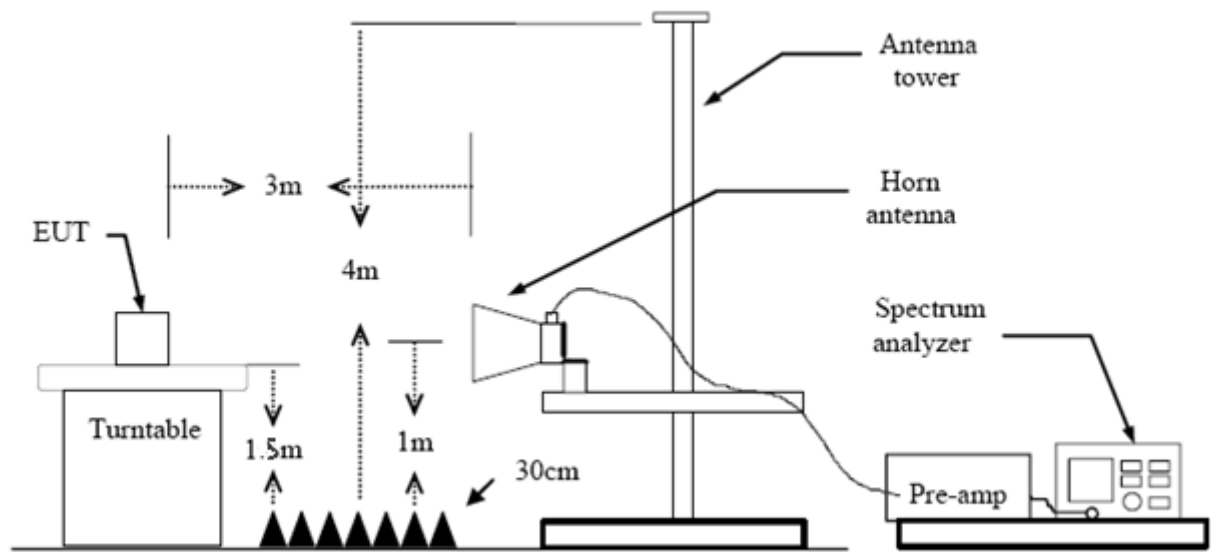
5.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

5.3 Test Procedure

- (1) Measurements at frequency above 1GHz. The EUT was placed on a rotating 0.8m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (5) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (6) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (7) For the actual test configuration, please see the test setup photo.

5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.

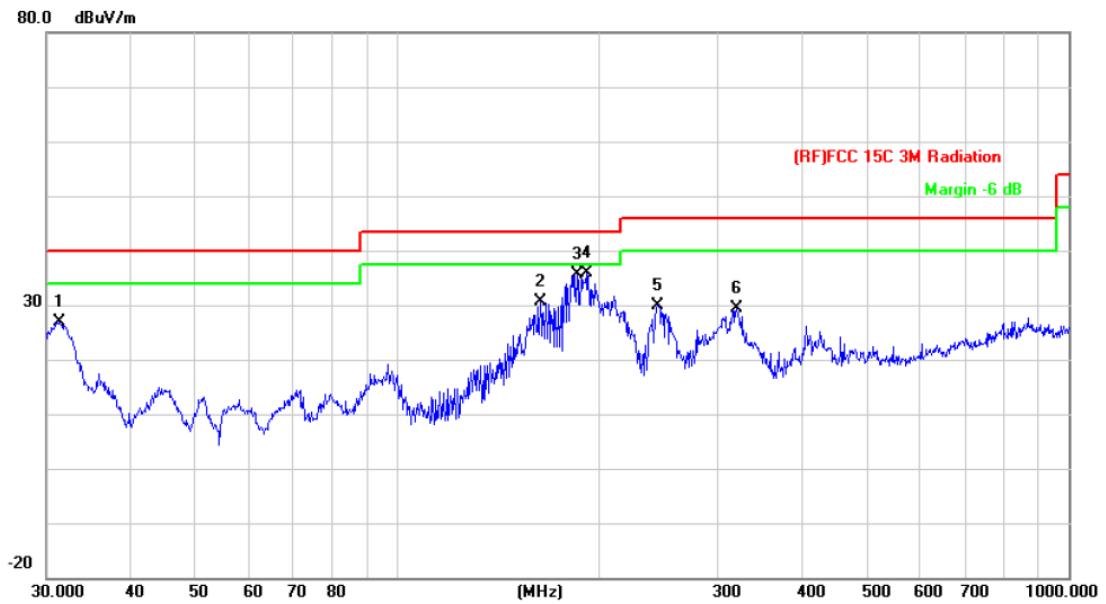
9KHz~30MHz

From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

30MHz~1GHz

EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		

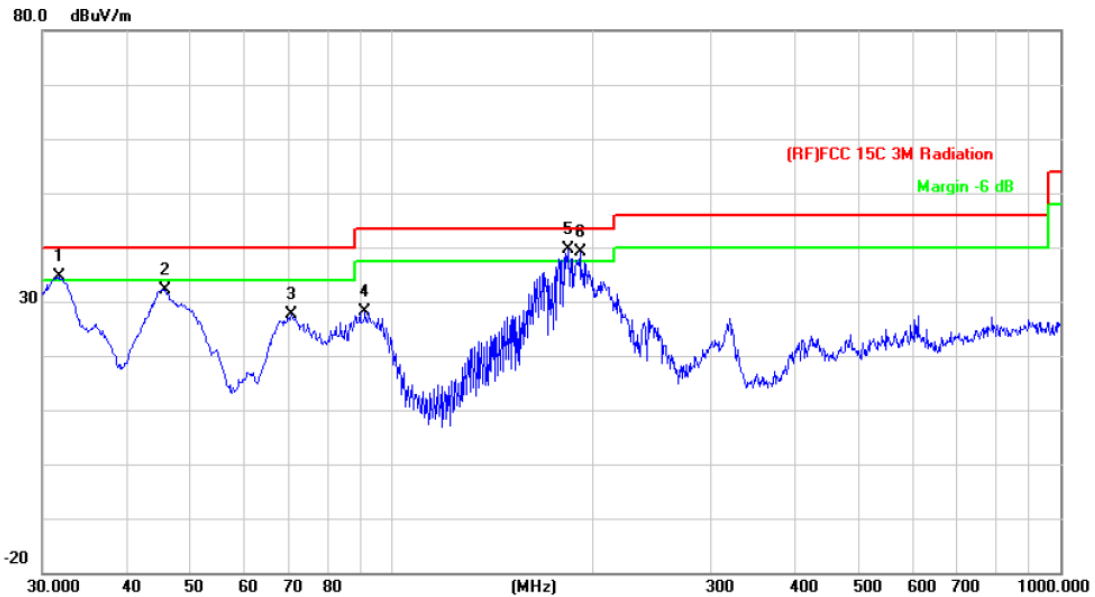


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		31.3992	41.50	-14.64	26.86	40.00	-13.14	peak
2		163.1818	50.90	-20.23	30.67	43.50	-12.83	peak
3		185.1379	55.90	-20.17	35.73	43.50	-7.77	peak
4	*	191.0738	56.12	-20.26	35.86	43.50	-7.64	peak
5		244.2321	47.69	-17.69	30.00	46.00	-16.00	peak
6		319.9370	45.03	-15.53	29.50	46.00	-16.50	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		



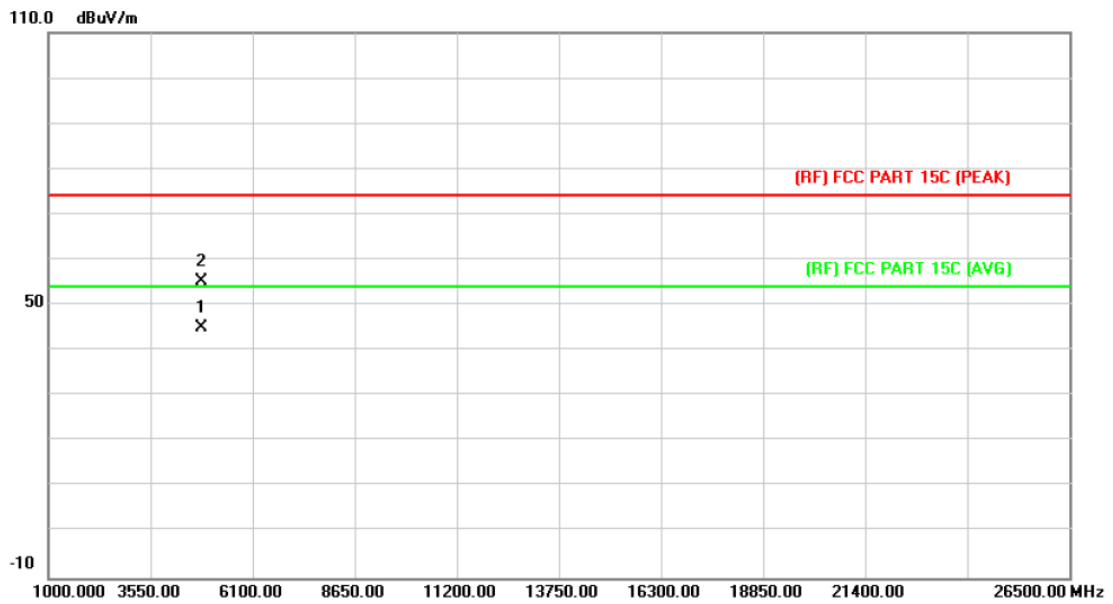
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	!	31.8427	49.48	-14.91	34.57	40.00	-5.43	peak
2		45.8553	54.57	-22.34	32.23	40.00	-7.77	peak
3		70.5836	50.92	-23.26	27.66	40.00	-12.34	peak
4		91.1746	50.23	-22.18	28.05	43.50	-15.45	peak
5	*	183.8440	59.68	-20.13	39.55	43.50	-3.95	peak
6	!	191.0738	59.49	-20.26	39.23	43.50	-4.27	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

Above 1GHz

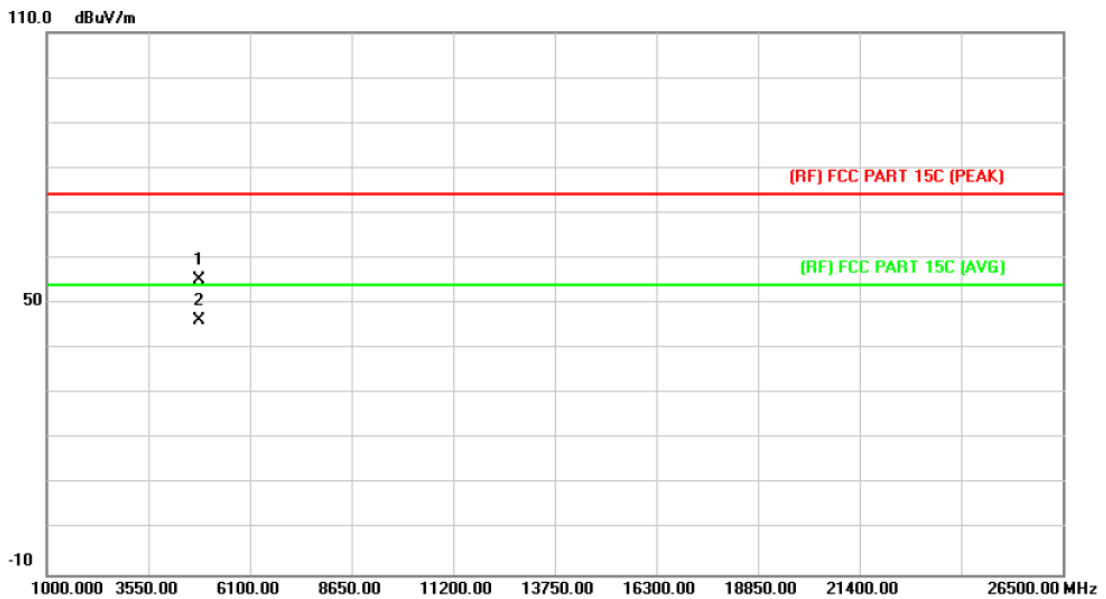
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4823.225	31.61	13.56	45.17	54.00	-8.83	AVG
2		4824.627	41.76	13.56	55.32	74.00	-18.68	peak

Emission Level= Read Level+ Correct Factor

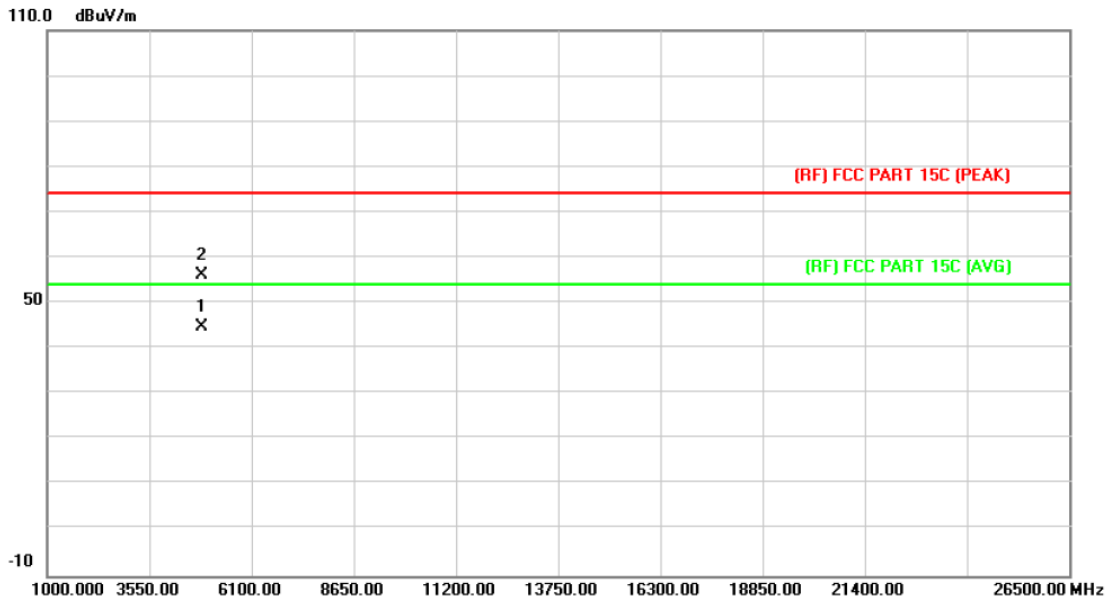
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4824.186	41.60	13.56	55.16	74.00	-18.84	peak
2	*	4825.224	32.73	13.57	46.30	54.00	-7.70	AVG

Emission Level= Read Level+ Correct Factor

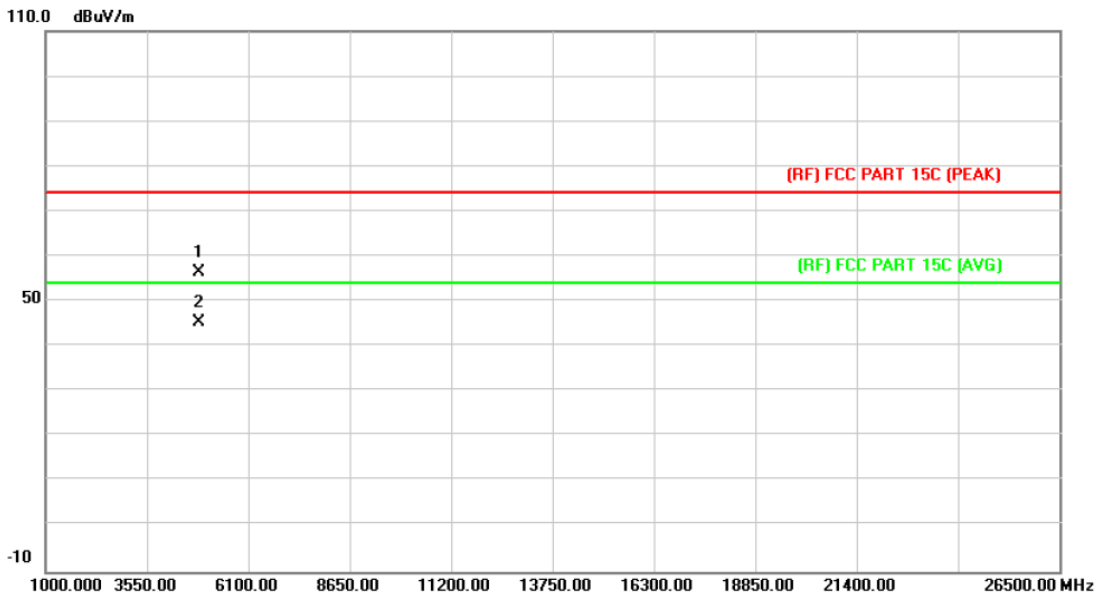
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4874.218	30.92	13.86	44.78	54.00	-9.22	AVG
2		4875.337	42.37	13.87	56.24	74.00	-17.76	peak

Emission Level= Read Level+ Correct Factor

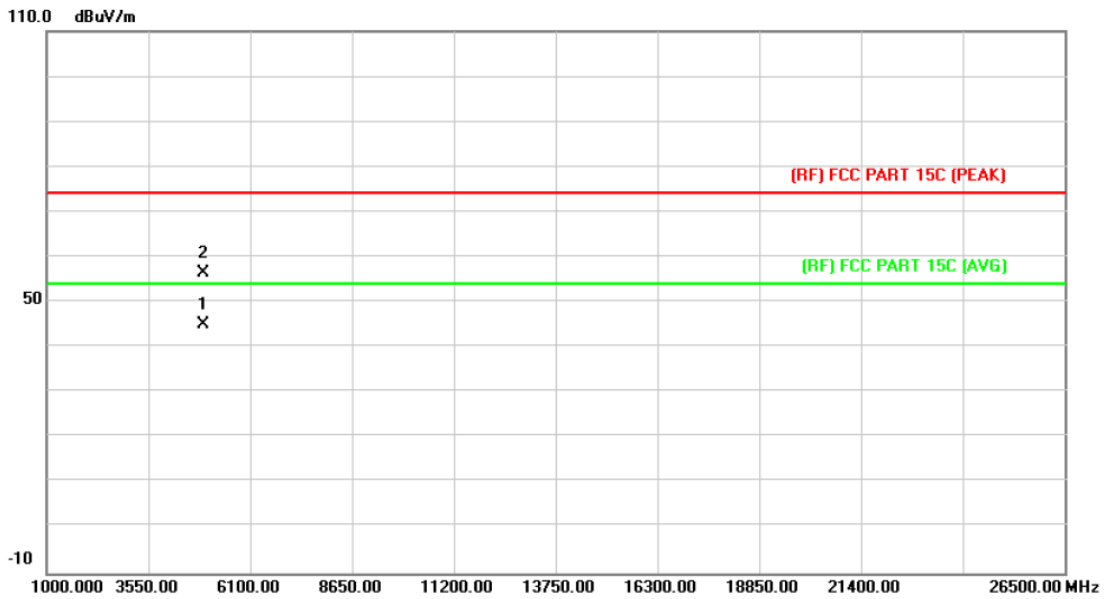
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4874.125	42.56	13.86	56.42	74.00	-17.58	peak
2	*	4875.288	31.57	13.87	45.44	54.00	-8.56	AVG

Emission Level= Read Level+ Correct Factor

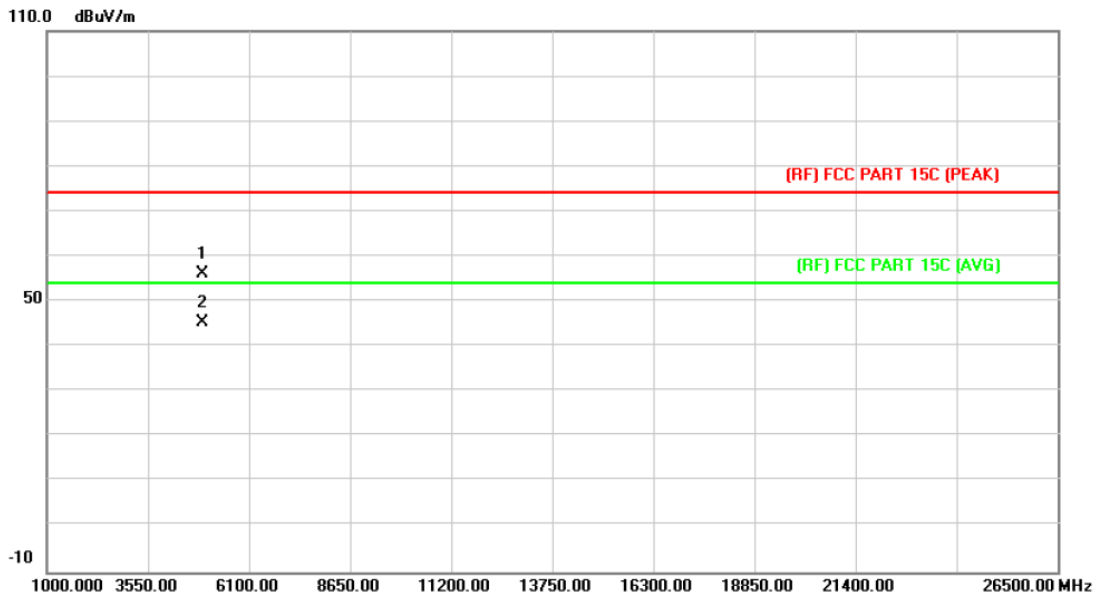
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4924.328	30.95	14.15	45.10	54.00	-8.90	AVG
2		4925.688	42.29	14.16	56.45	74.00	-17.55	peak

Emission Level= Read Level+ Correct Factor

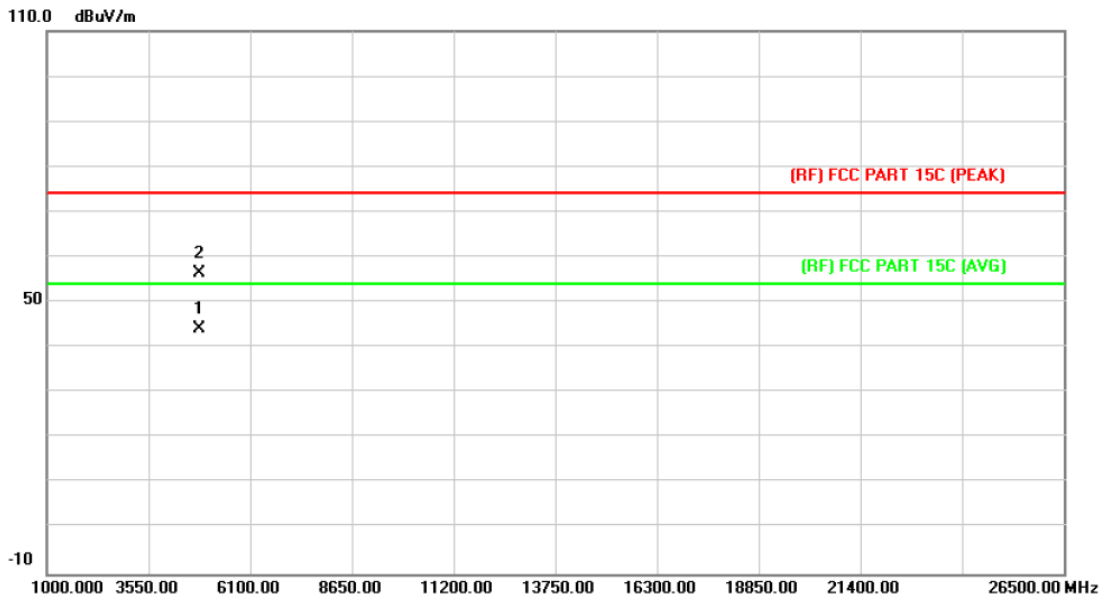
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4923.237	42.00	14.15	56.15	74.00	-17.85	peak
2	*	4925.467	31.06	14.16	45.22	54.00	-8.78	AVG

Emission Level= Read Level+ Correct Factor

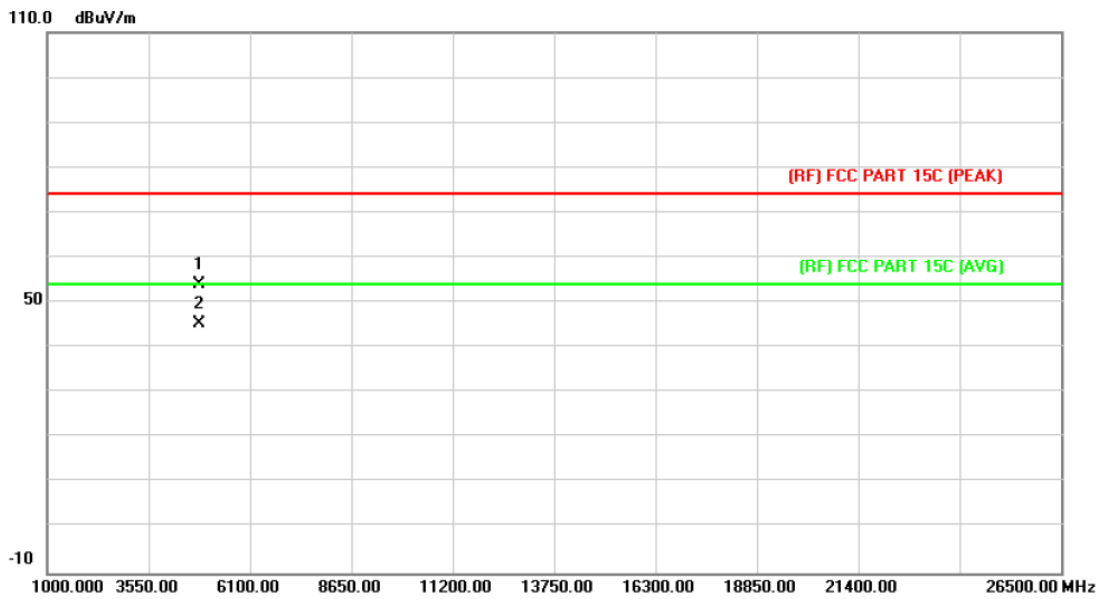
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4824.327	30.56	13.56	44.12	54.00	-9.88	AVG
2		4825.475	42.76	13.57	56.33	74.00	-17.67	peak

Emission Level= Read Level+ Correct Factor

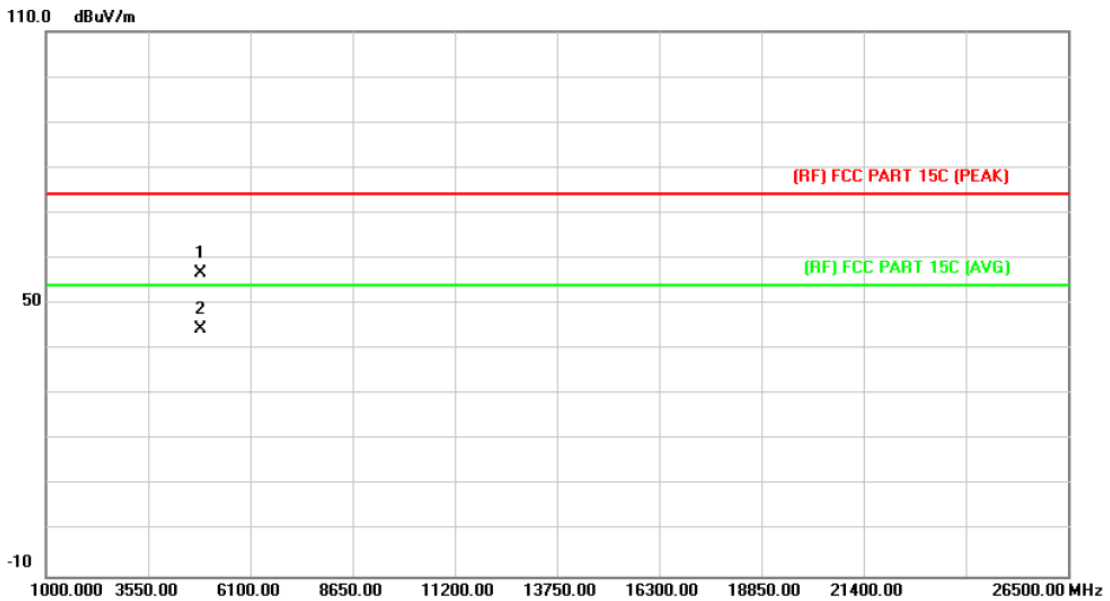
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4824.379	40.51	13.56	54.07	74.00	-19.93	peak
2	*	4825.163	31.71	13.57	45.28	54.00	-8.72	AVG

Emission Level= Read Level+ Correct Factor

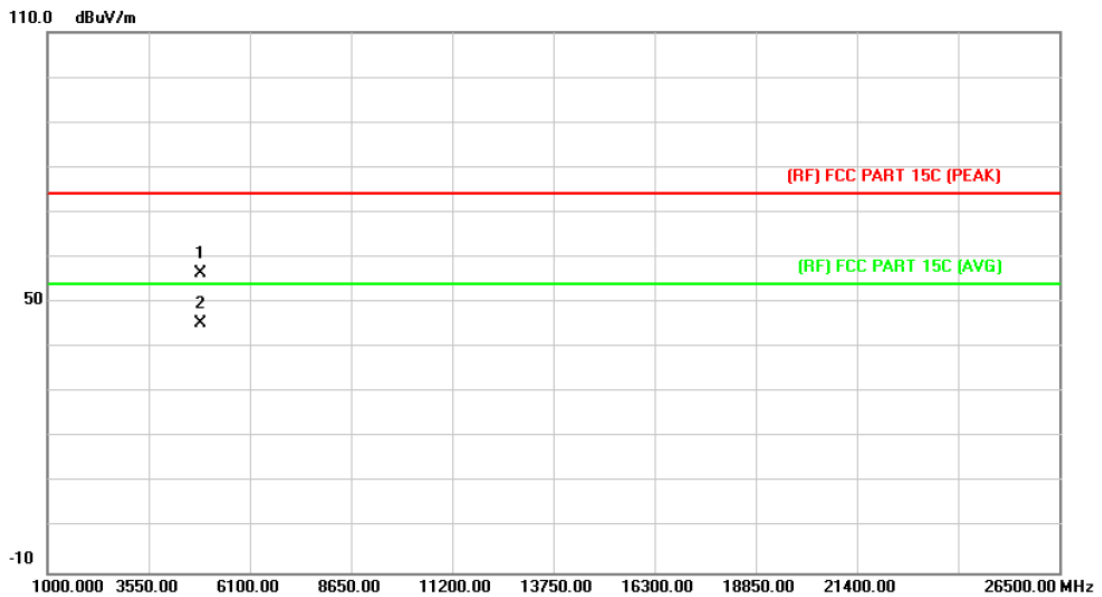
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4873.704	42.81	13.86	56.67	74.00	-17.33	peak
2	*	4875.527	30.51	13.87	44.38	54.00	-9.62	AVG

Emission Level= Read Level+ Correct Factor

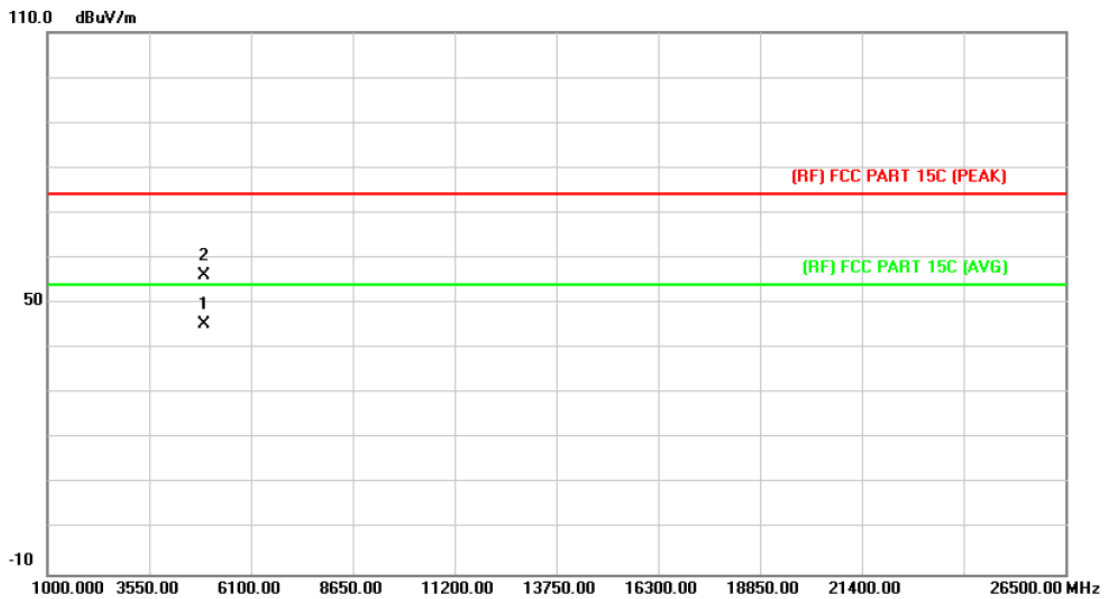
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4875.151	42.52	13.87	56.39	74.00	-17.61	peak
2	*	4875.864	31.39	13.87	45.26	54.00	-8.74	AVG

Emission Level= Read Level+ Correct Factor

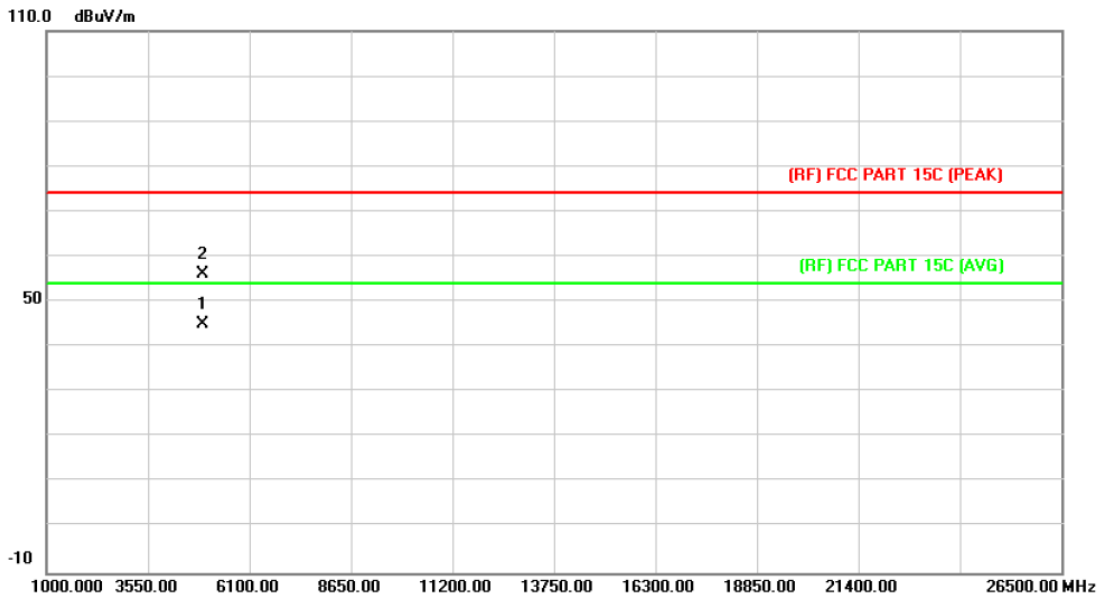
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4923.774	31.21	14.15	45.36	54.00	-8.64	AVG
2		4924.232	42.05	14.15	56.20	74.00	-17.80	peak

Emission Level= Read Level+ Correct Factor

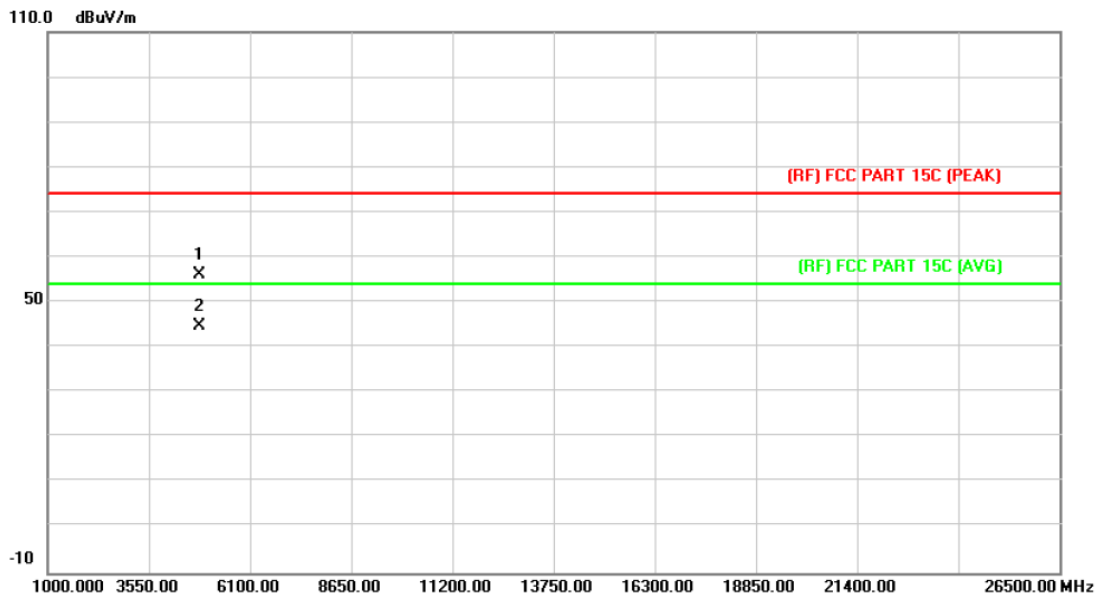
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4924.865	31.01	14.15	45.16	54.00	-8.84	AVG
2		4925.342	42.07	14.16	56.23	74.00	-17.77	peak

Emission Level= Read Level+ Correct Factor

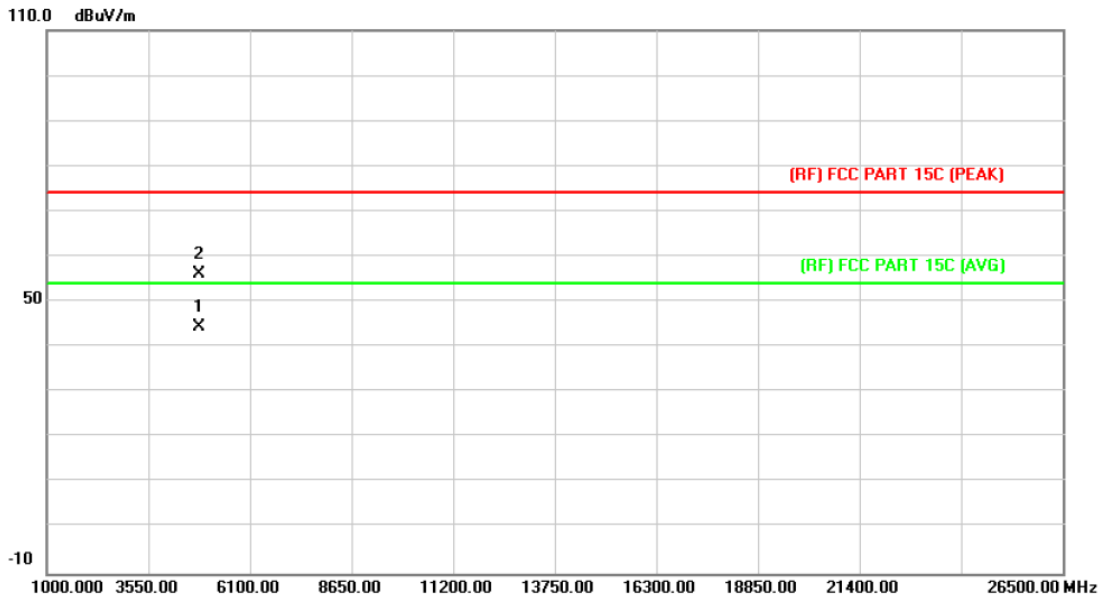
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4823.115	42.65	13.56	56.21	74.00	-17.79	peak
2	*	4824.369	31.12	13.56	44.68	54.00	-9.32	AVG

Emission Level= Read Level+ Correct Factor

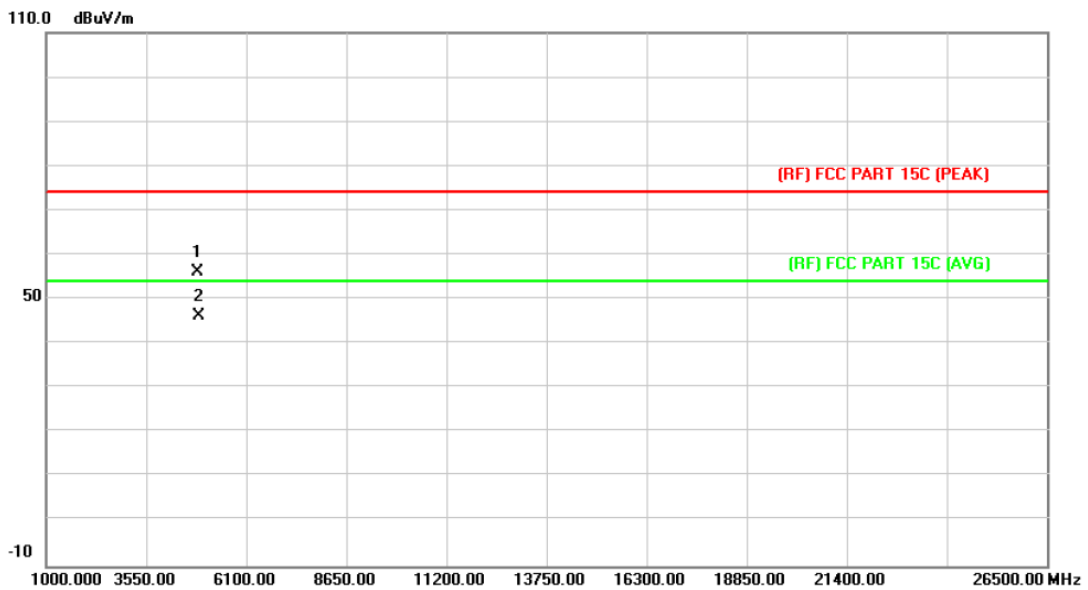
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4823.271	30.78	13.56	44.34	74.00	-29.66	peak
2	*	4825.246	42.63	13.57	56.20	74.00	-17.80	peak

Emission Level= Read Level+ Correct Factor

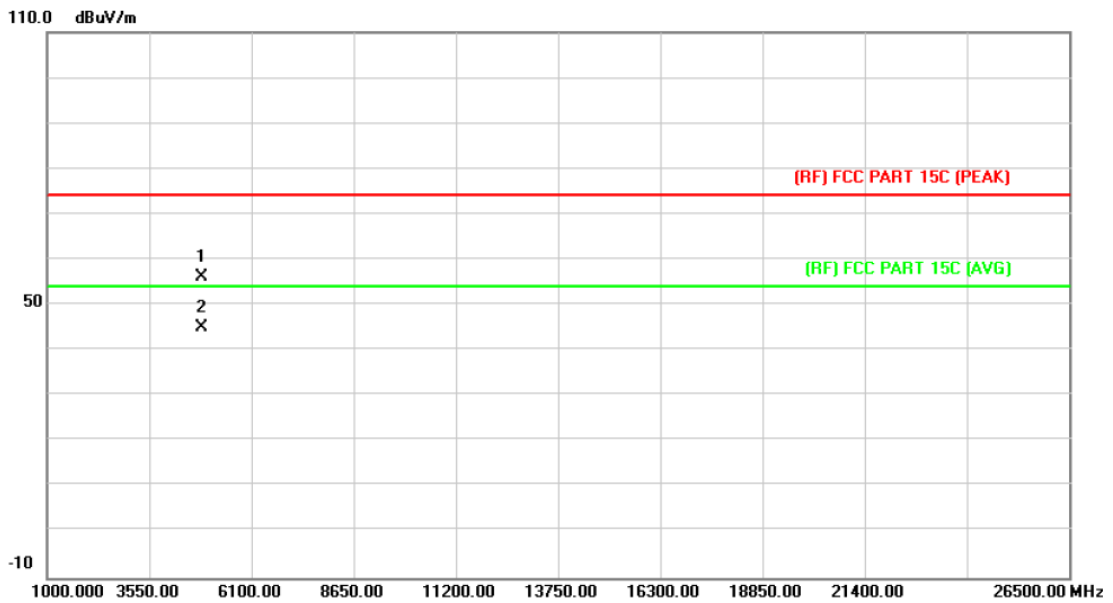
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4875.244	42.35	13.87	56.22	74.00	-17.78	peak
2	*	4876.302	32.29	13.87	46.16	54.00	-7.84	AVG

Emission Level= Read Level+ Correct Factor

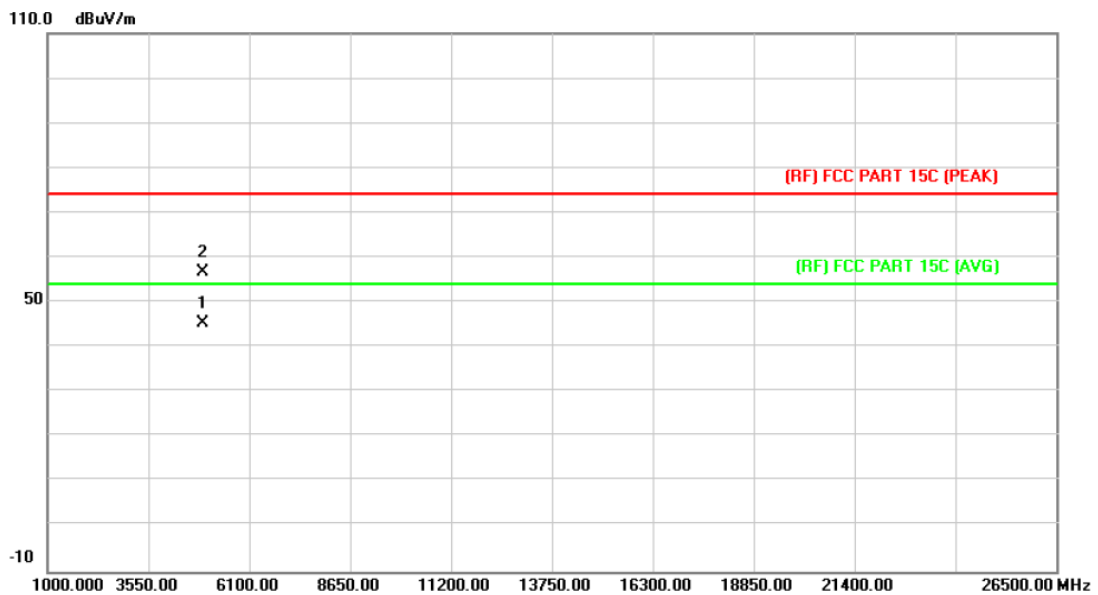
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4873.114	42.37	13.86	56.23	74.00	-17.77	peak
2	*	4874.357	31.32	13.86	45.18	54.00	-8.82	AVG

Emission Level= Read Level+ Correct Factor

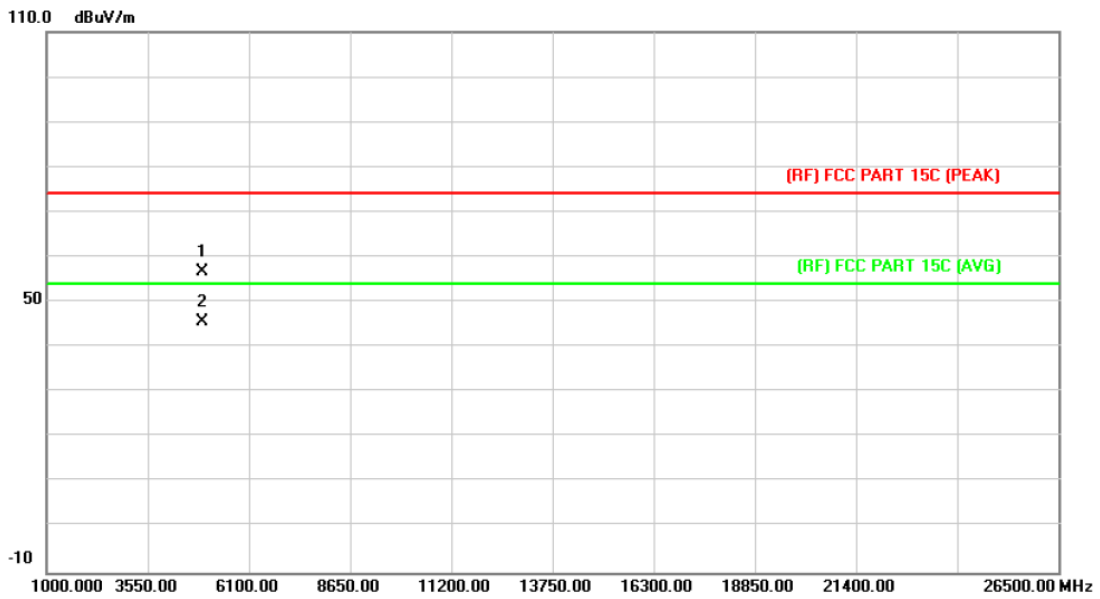
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4923.443	31.13	14.15	45.28	54.00	-8.72	AVG
2		4925.239	42.50	14.16	56.66	74.00	-17.34	peak

Emission Level= Read Level+ Correct Factor

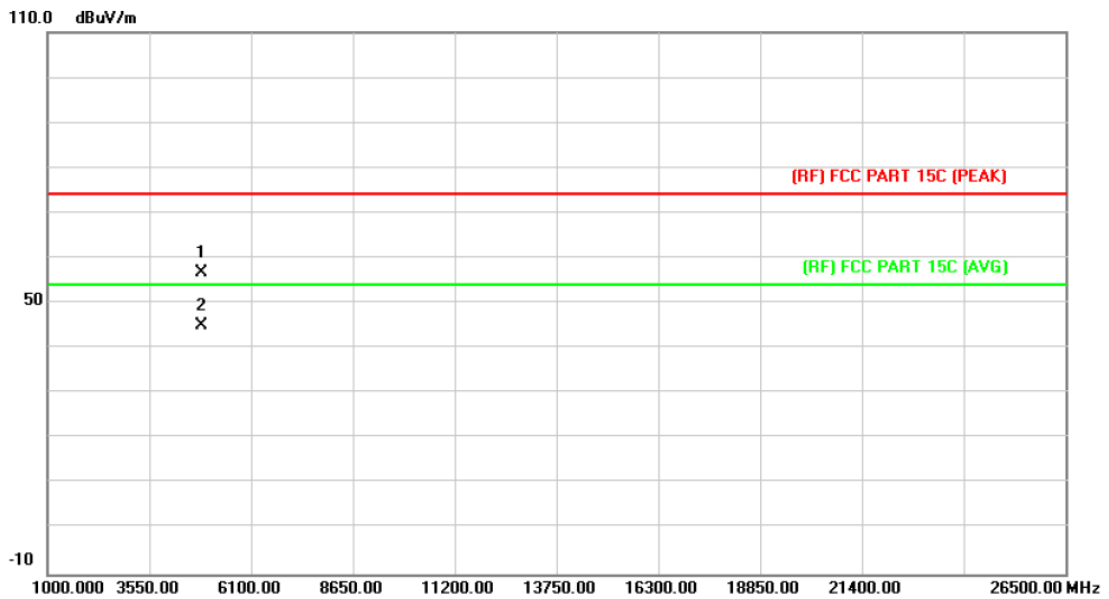
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4924.674	42.61	14.15	56.76	74.00	-17.24	peak
2	*	4925.322	31.52	14.16	45.68	54.00	-8.32	AVG

Emission Level= Read Level+ Correct Factor

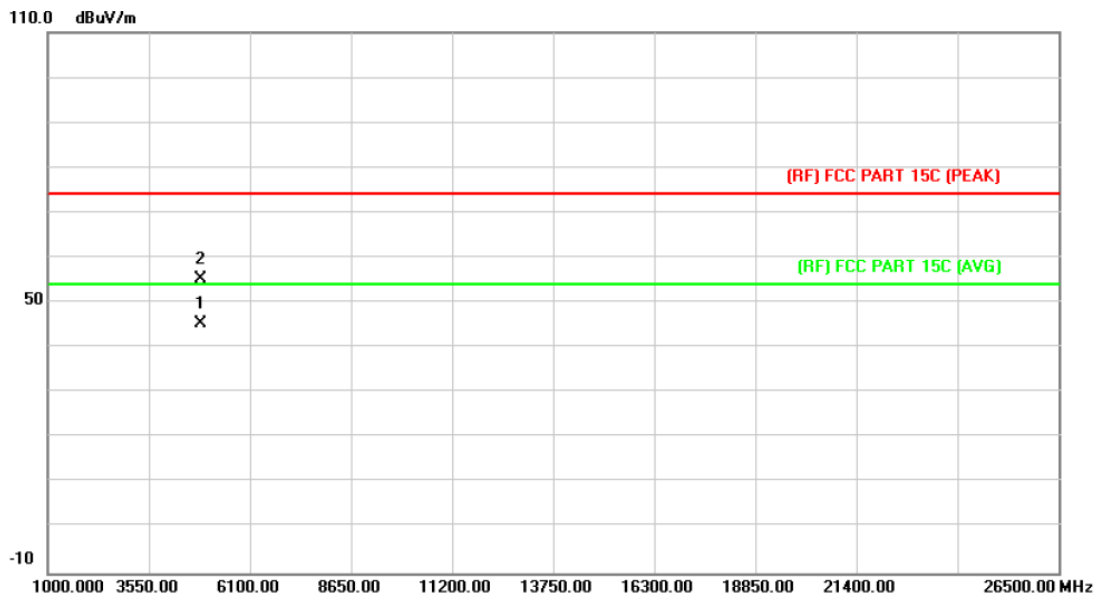
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4844.336	43.06	13.68	56.74	74.00	-17.26	peak
2	*	4845.647	31.29	13.69	44.98	54.00	-9.02	AVG

Emission Level= Read Level+ Correct Factor

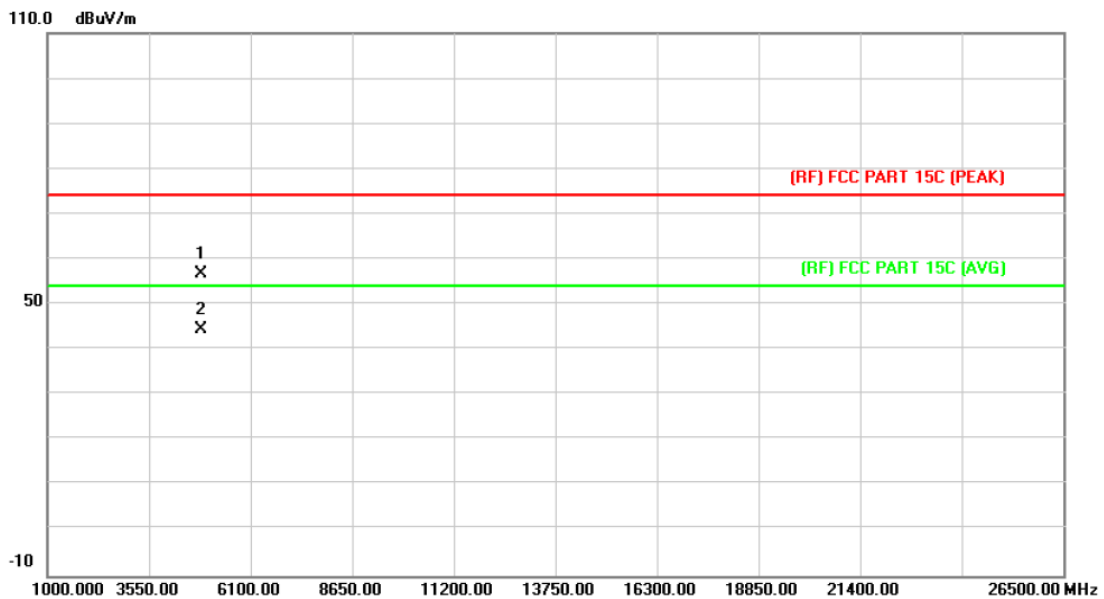
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4844.262	31.78	13.68	45.46	54.00	-8.54	AVG
2		4845.446	41.63	13.69	55.32	74.00	-18.68	peak

Emission Level= Read Level+ Correct Factor

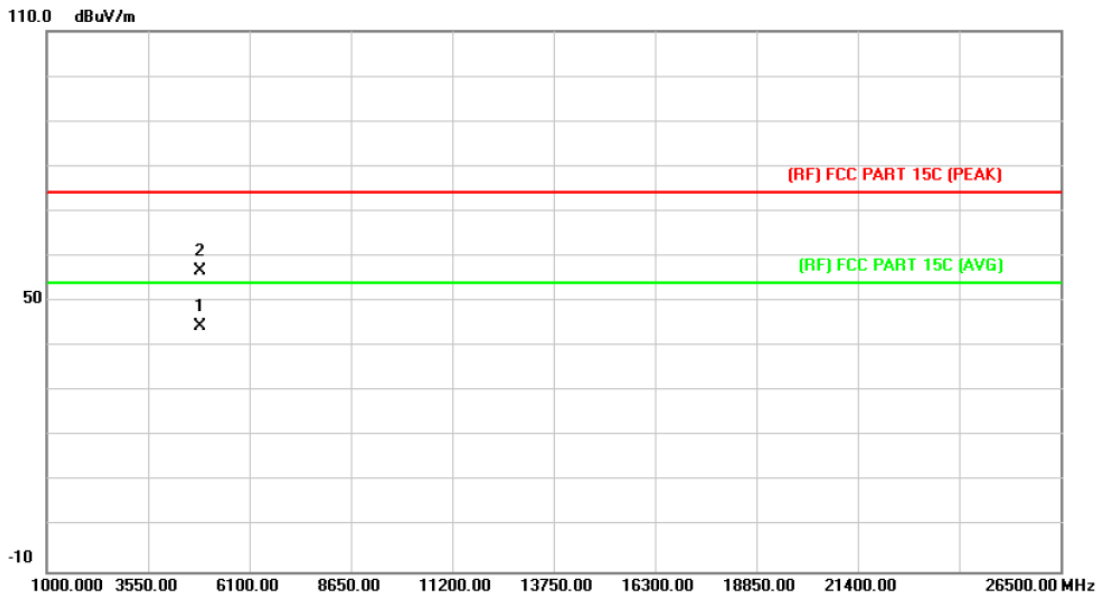
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4873.168	42.90	13.86	56.76	74.00	-17.24	peak
2	*	4874.427	30.72	13.86	44.58	54.00	-9.42	AVG

Emission Level= Read Level+ Correct Factor

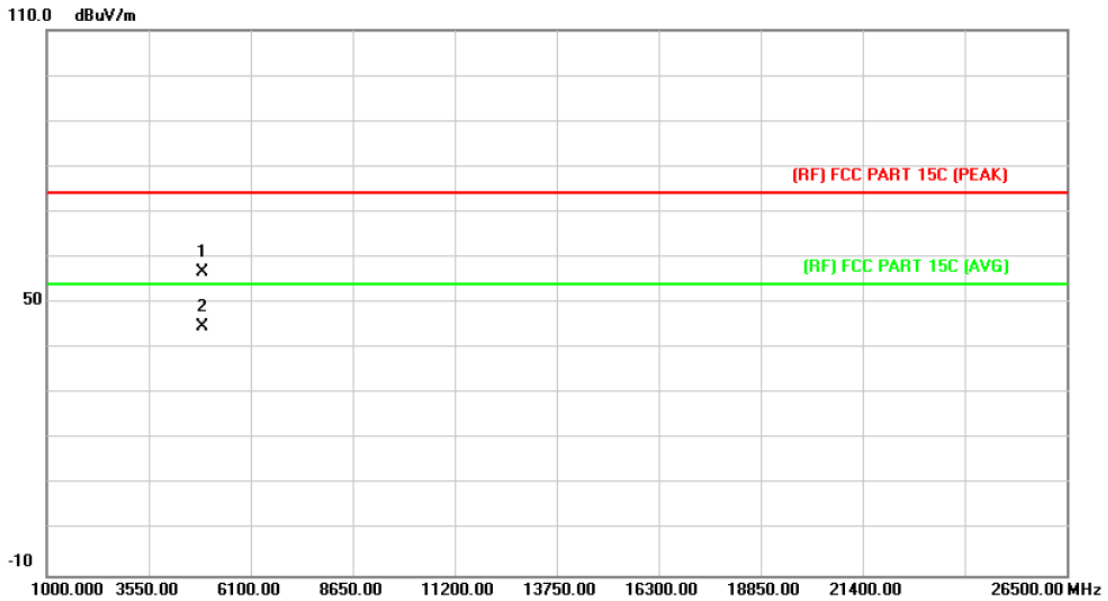
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4874.682	30.69	13.86	44.55	54.00	-9.45	AVG
2		4875.283	42.79	13.87	56.66	74.00	-17.34	peak

Emission Level= Read Level+ Correct Factor

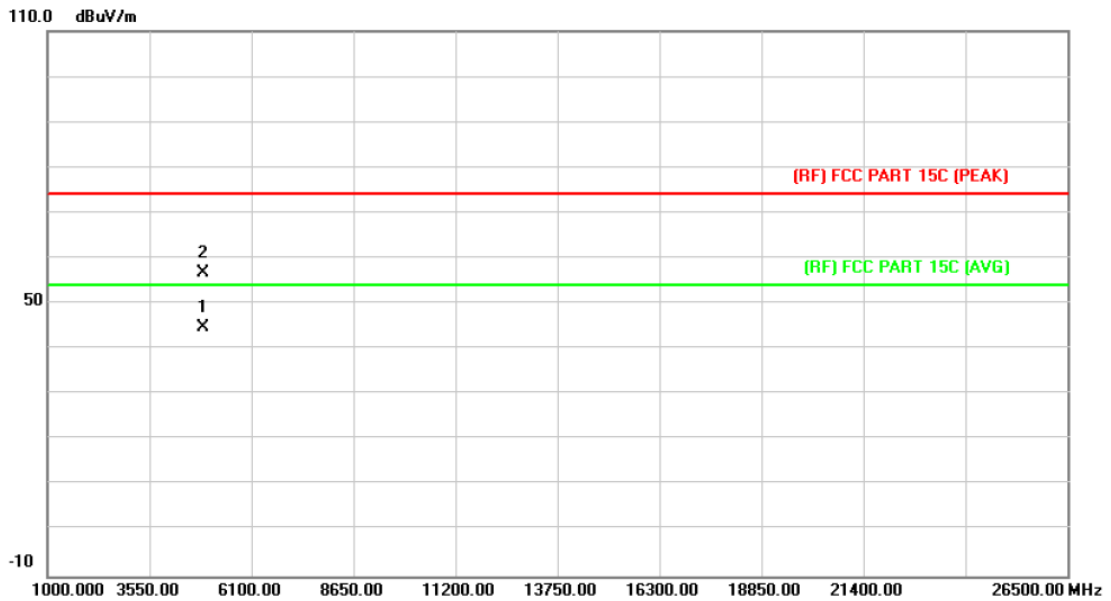
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4903.312	42.77	14.03	56.80	74.00	-17.20	peak
2	*	4904.335	30.69	14.03	44.72	54.00	-9.28	AVG

Emission Level= Read Level+ Correct Factor

EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4904.426	30.60	14.03	44.63	54.00	-9.37	AVG
2		4905.230	42.67	14.04	56.71	74.00	-17.29	peak

Emission Level= Read Level+ Correct Factor

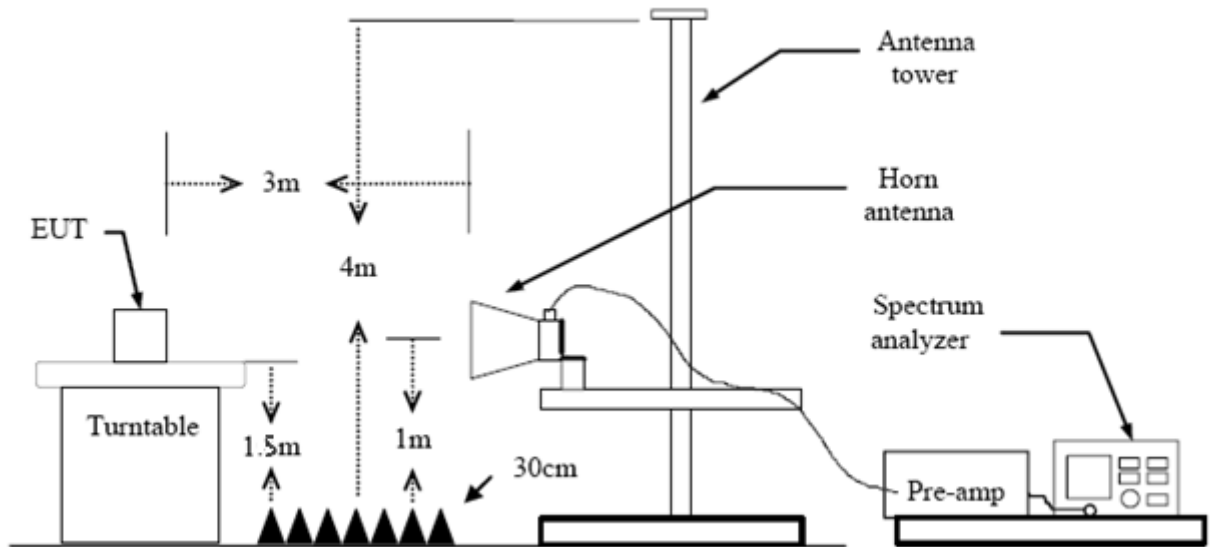
6. Restricted Bands Requirement

6.1 Test Standard and Limit

- 6.1.1 Test Standard
 - FCC Part 15.247(d)
 - FCC Part 15.209
 - FCC Part 15.205
- 6.1.2 Test Limit

Restricted Frequency Band (MHz)	Distance of 3m (dBuV/m)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

6.2 Test Setup



6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

6.4 EUT Operating Condition

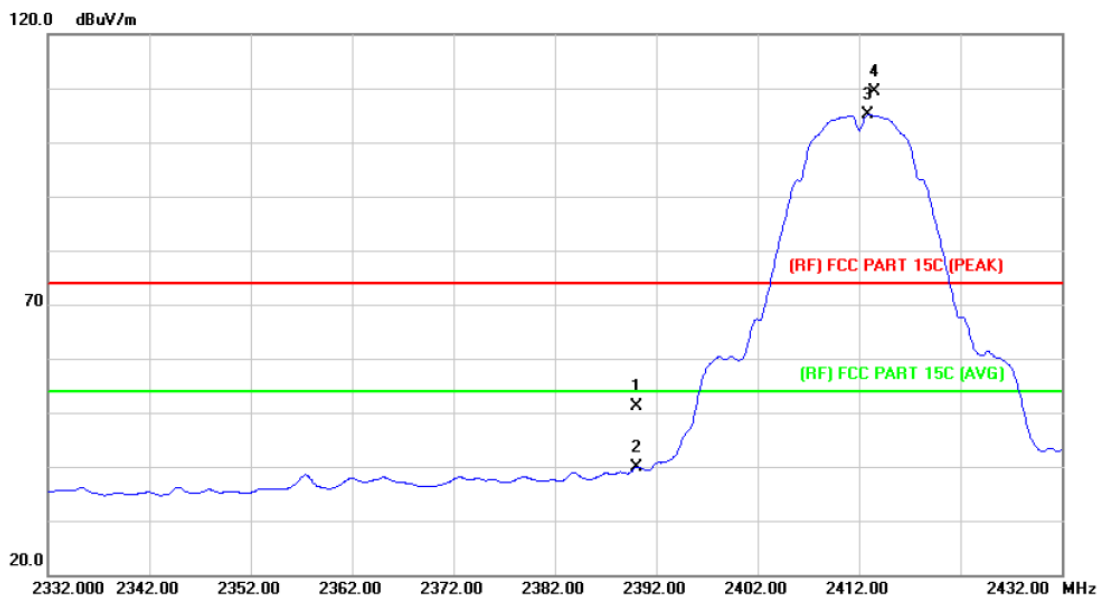
The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

Please see the next page.

(1) Radiation Test

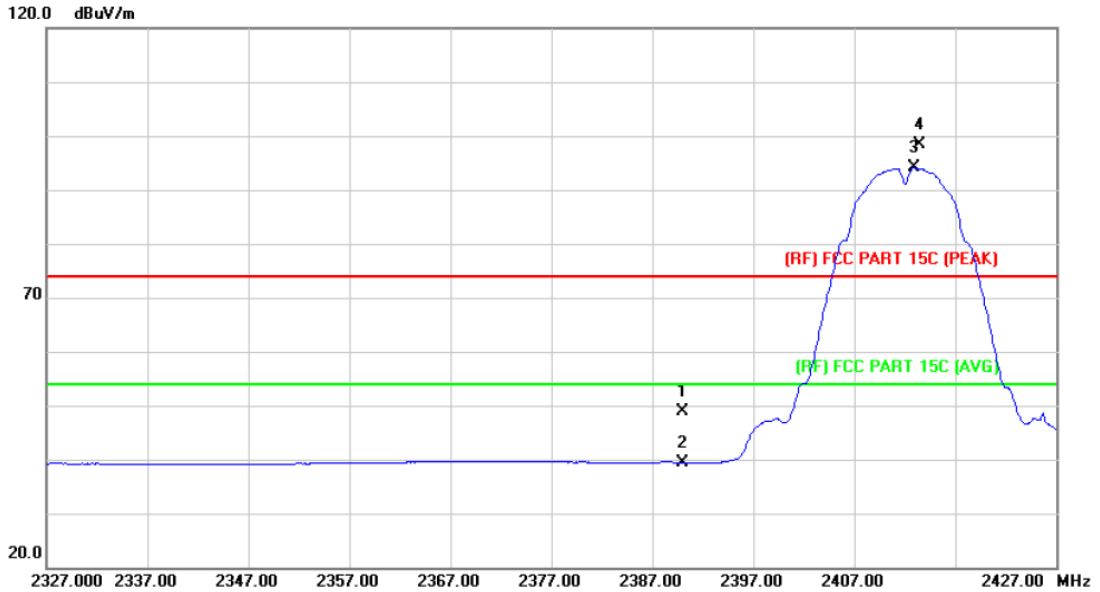
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	50.35	0.77	51.12	74.00	-22.88	peak
2		2390.000	39.16	0.77	39.93	54.00	-14.07	AVG
3	*	2412.900	104.22	0.86	105.08	Fundamental Frequency		AVG
4	X	2413.500	108.60	0.86	109.46	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

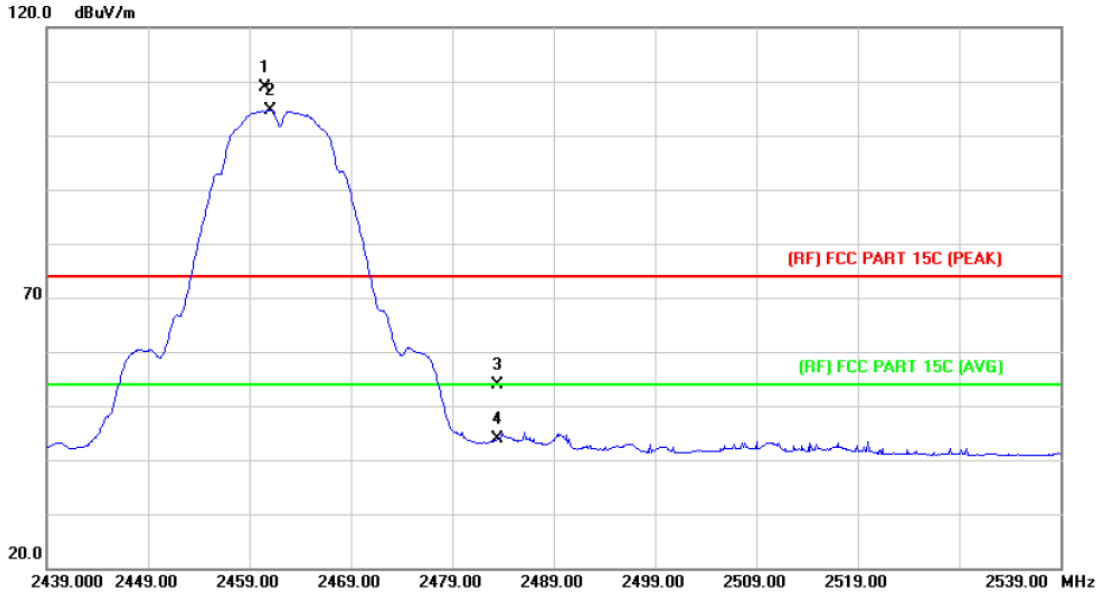
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	48.06	0.77	48.83	74.00	-25.17	peak
2		2390.000	38.65	0.77	39.42	54.00	-14.58	AVG
3	*	2412.900	93.22	0.86	94.08	Fundamental Frequency		AVG
4	X	2413.400	97.47	0.86	98.33	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

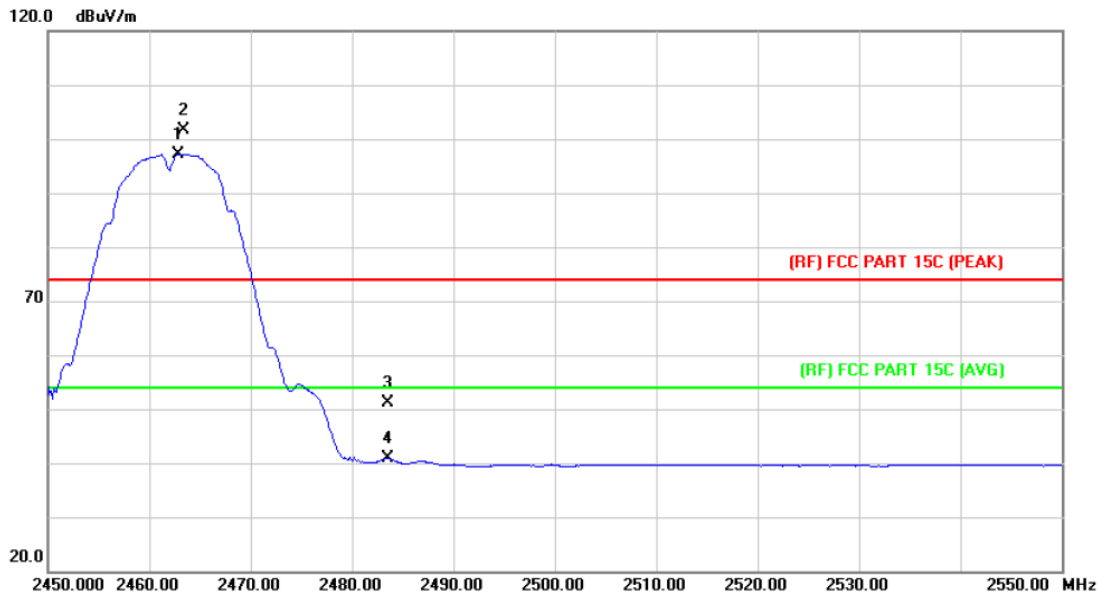
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2460.500	107.86	1.06	108.92	Fundamental Frequency		peak
2	*	2461.100	103.58	1.06	104.64	Fundamental Frequency		AVG
3		2483.500	52.65	1.17	53.82	74.00	-20.18	peak
4		2483.500	42.80	1.17	43.97	54.00	-10.03	AVG

Emission Level= Read Level+ Correct Factor

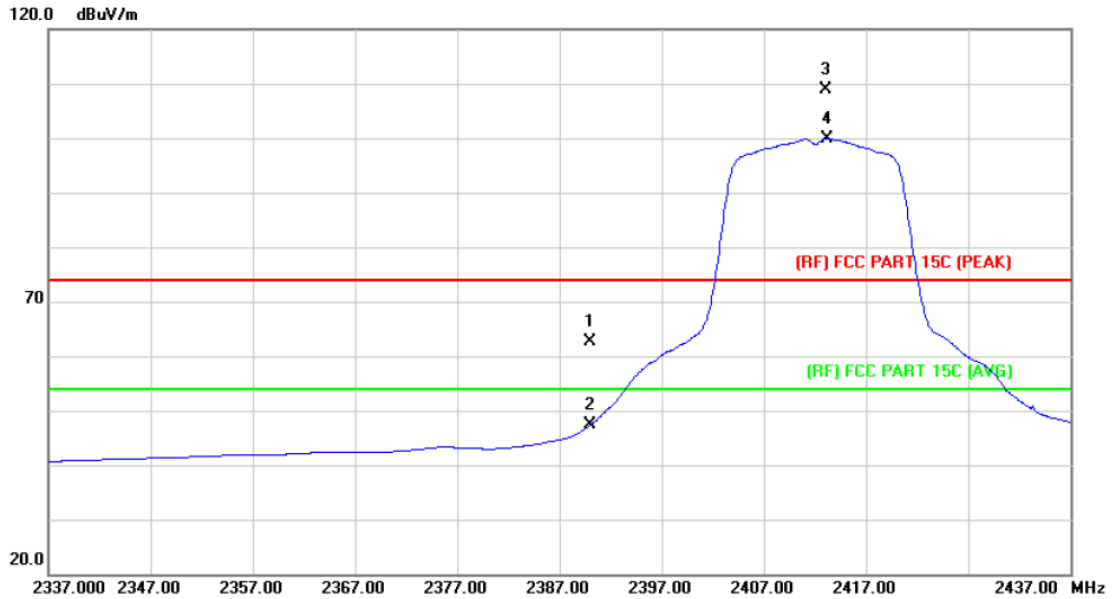
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2462.800	96.10	1.08	97.18	Fundamental Frequency		AVG
2	X	2463.400	100.47	1.08	101.55	Fundamental Frequency		peak
3		2483.500	49.89	1.17	51.06	74.00	-22.94	peak
4		2483.500	39.69	1.17	40.86	54.00	-13.14	AVG

Emission Level= Read Level+ Correct Factor

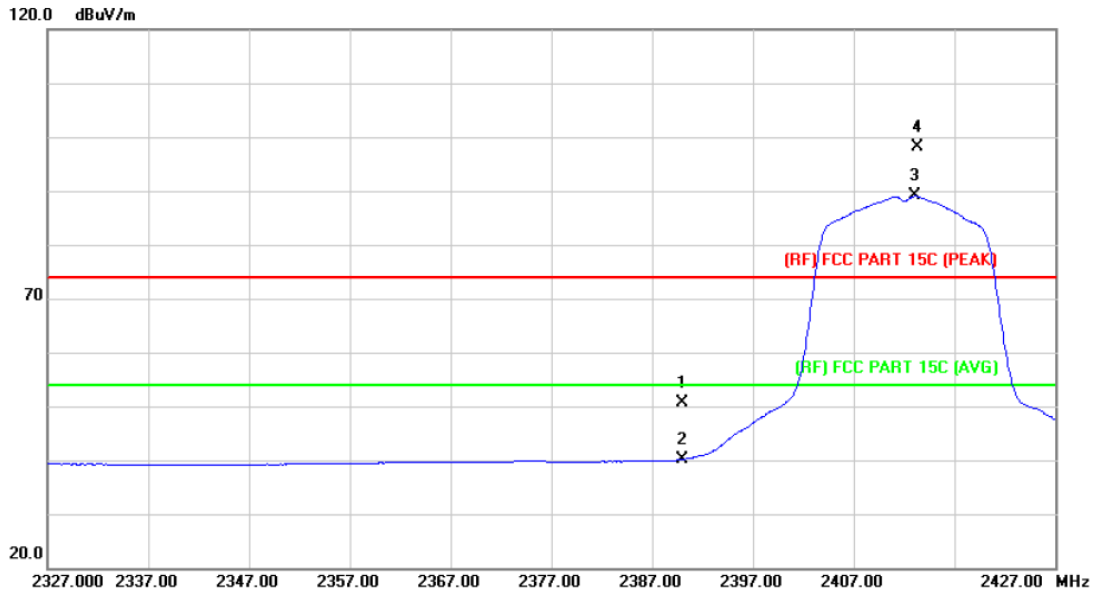
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	61.90	0.77	62.67	74.00	-11.33	peak
2		2390.000	46.59	0.77	47.36	54.00	-6.64	AVG
3	X	2413.100	108.10	0.86	108.96	Fundamental Frequency		peak
4	*	2413.200	99.10	0.86	99.96	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

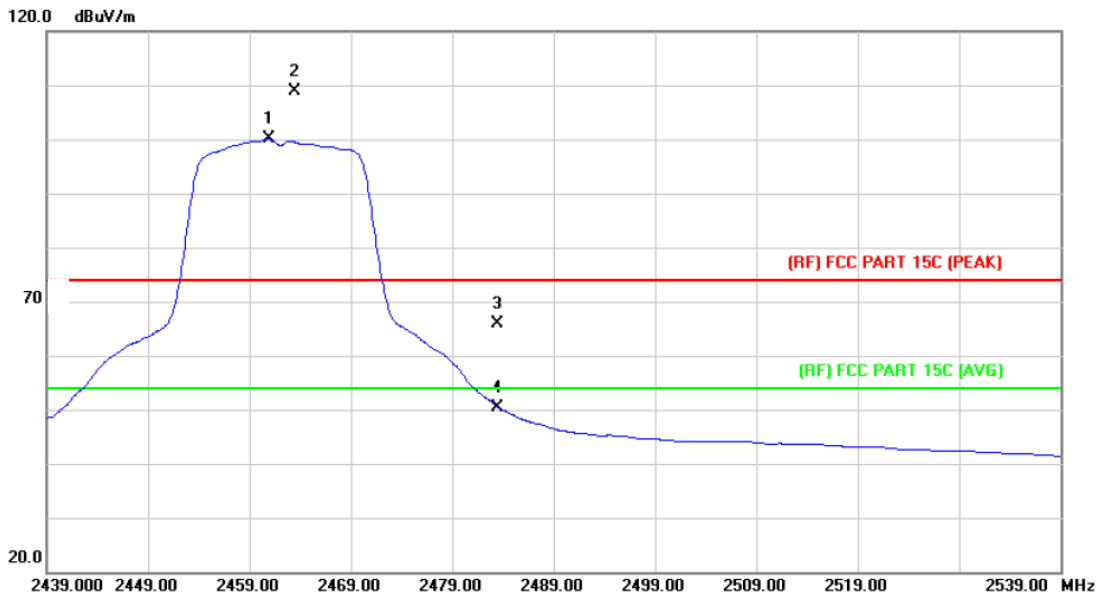
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	49.80	0.77	50.57	74.00	-23.43	peak
2		2390.000	39.38	0.77	40.15	54.00	-13.85	AVG
3	*	2413.100	88.17	0.86	89.03	Fundamental Frequency		AVG
4	X	2413.300	97.32	0.86	98.18	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

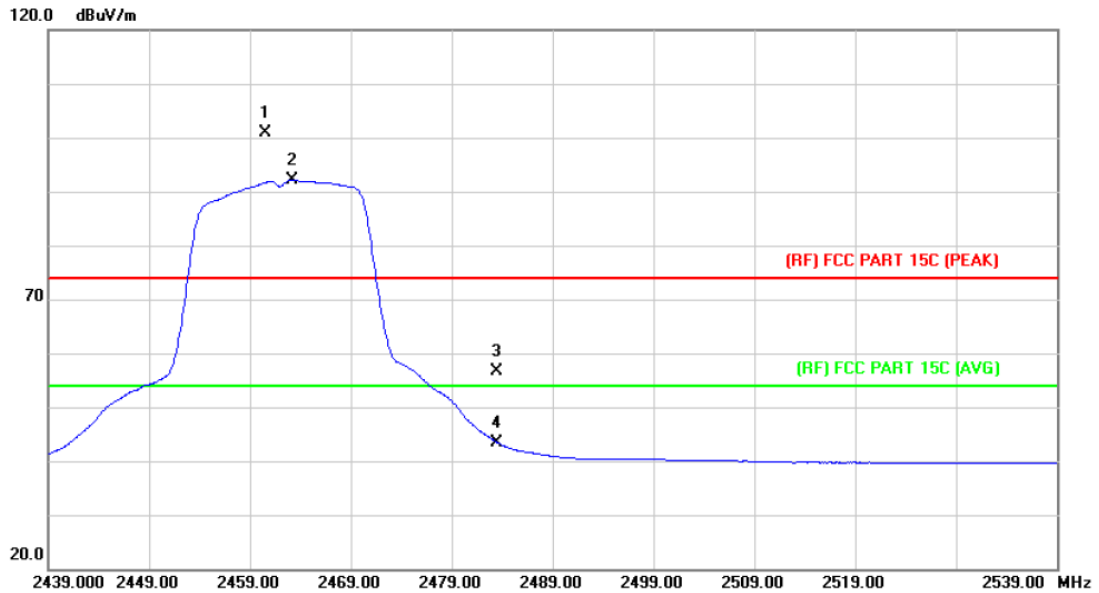
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2460.900	98.99	1.06	100.05	Fundamental Frequency		AVG
2	X	2463.500	107.86	1.08	108.94	Fundamental Frequency		peak
3		2483.500	64.61	1.17	65.78	74.00	-8.22	peak
4		2483.500	49.30	1.17	50.47	54.00	-3.53	AVG

Emission Level= Read Level+ Correct Factor

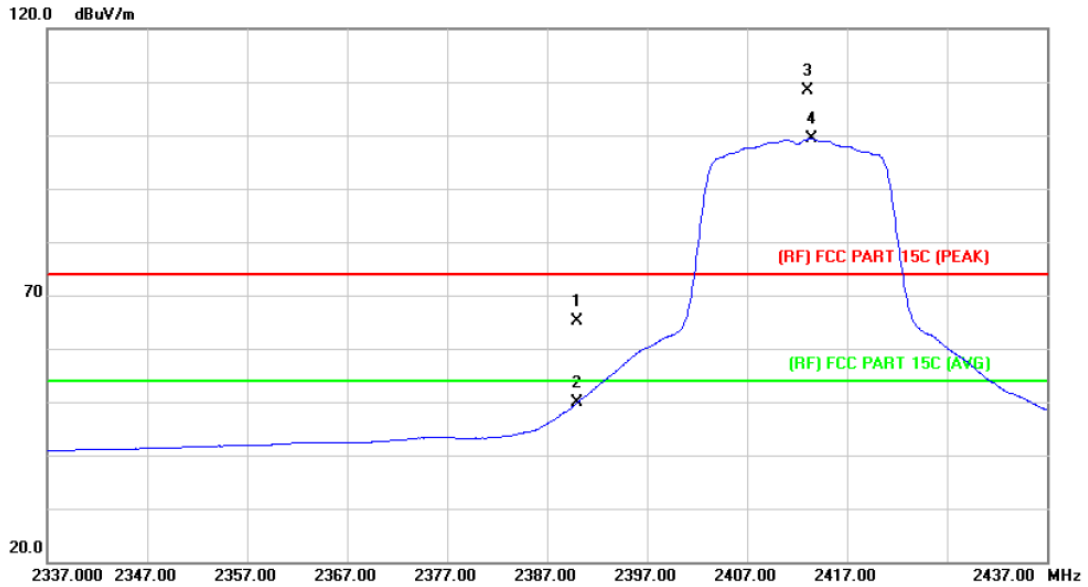
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2460.600	99.82	1.06	100.88	Fundamental Frequency		peak
2	*	2463.200	91.07	1.08	92.15	Fundamental Frequency		AVG
3		2483.500	55.43	1.17	56.60	74.00	-17.40	peak
4		2483.500	42.28	1.17	43.45	54.00	-10.55	AVG

Emission Level= Read Level+ Correct Factor

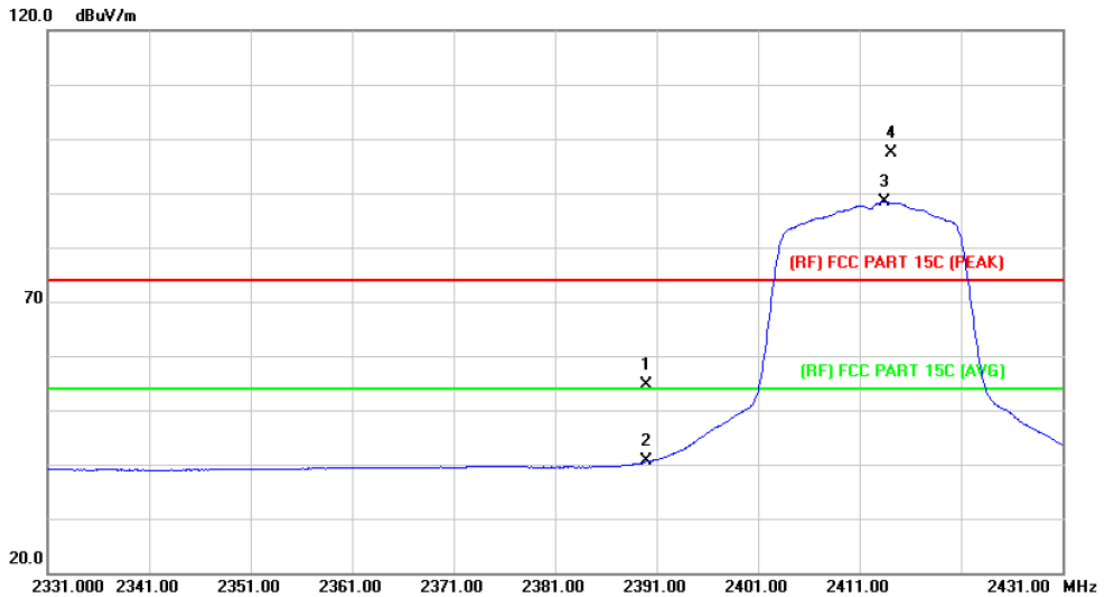
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	64.26	0.77	65.03	74.00	-8.97	peak
2		2390.000	49.13	0.77	49.90	54.00	-4.10	AVG
3	X	2413.100	107.49	0.86	108.35	Fundamental Frequency		peak
4	*	2413.400	98.50	0.86	99.36	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

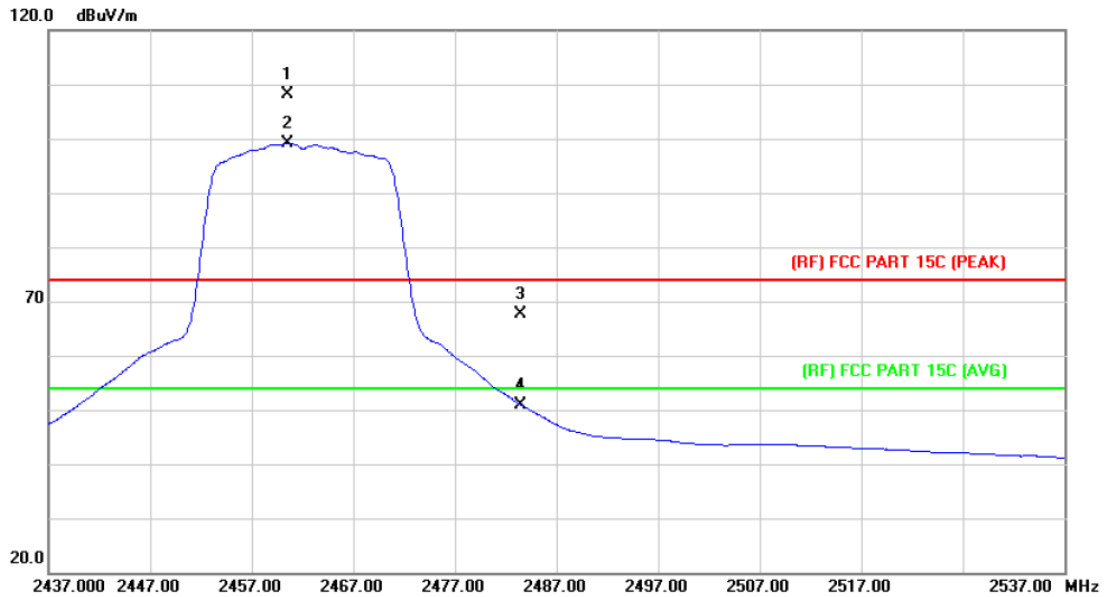
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	53.81	0.77	54.58	74.00	-19.42	peak
2		2390.000	39.74	0.77	40.51	54.00	-13.49	AVG
3	*	2413.400	87.56	0.86	88.42	Fundamental Frequency		AVG
4	X	2414.100	96.60	0.87	97.47	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

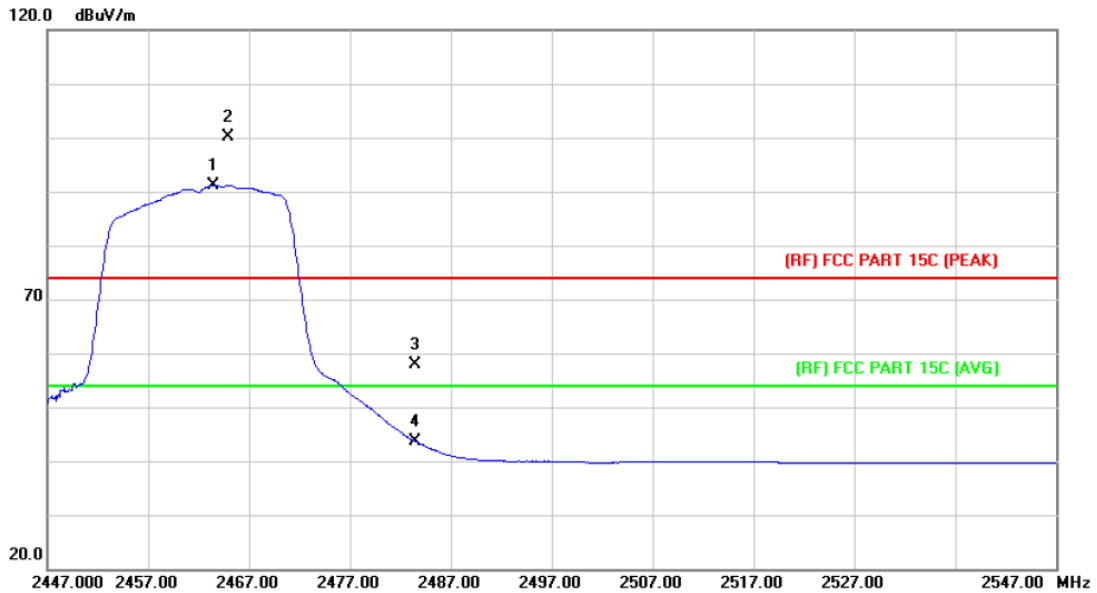
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2460.600	107.12	1.06	108.18	Fundamental Frequency		peak
2	*	2460.600	98.14	1.06	99.20	Fundamental Frequency		AVG
3		2483.500	66.55	1.17	67.72	74.00	-6.28	peak
4		2483.500	49.80	1.17	50.97	54.00	-3.03	AVG

Emission Level= Read Level+ Correct Factor

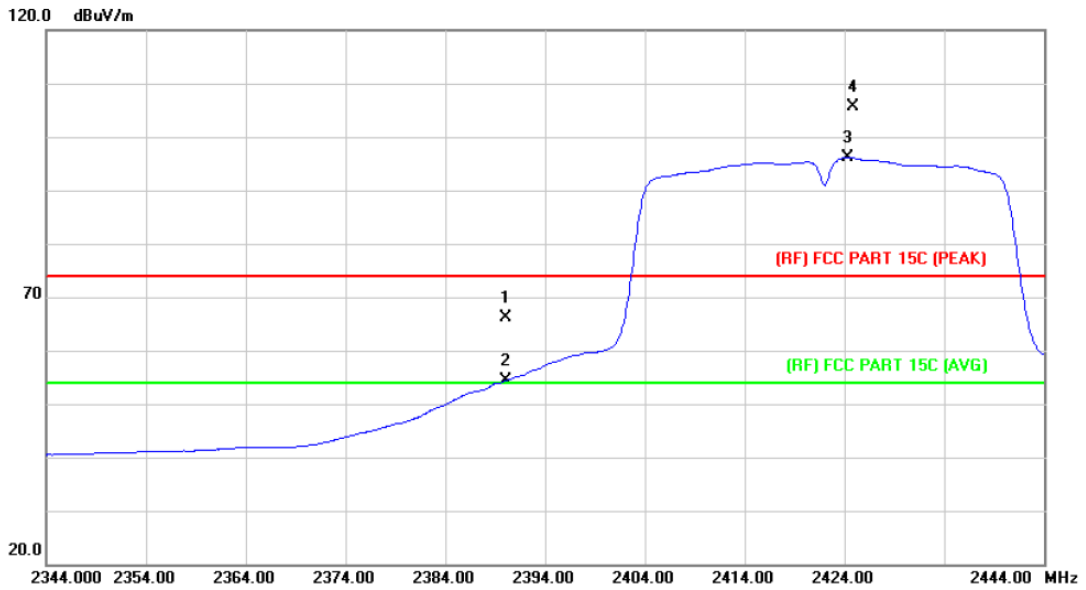
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2463.400	90.10	1.08	91.18	Fundamental Frequency		AVG
2	X	2464.900	99.01	1.09	100.10	Fundamental Frequency		peak
3		2483.500	56.66	1.17	57.83	74.00	-16.17	peak
4		2483.500	42.43	1.17	43.60	54.00	-10.40	AVG

Emission Level= Read Level+ Correct Factor

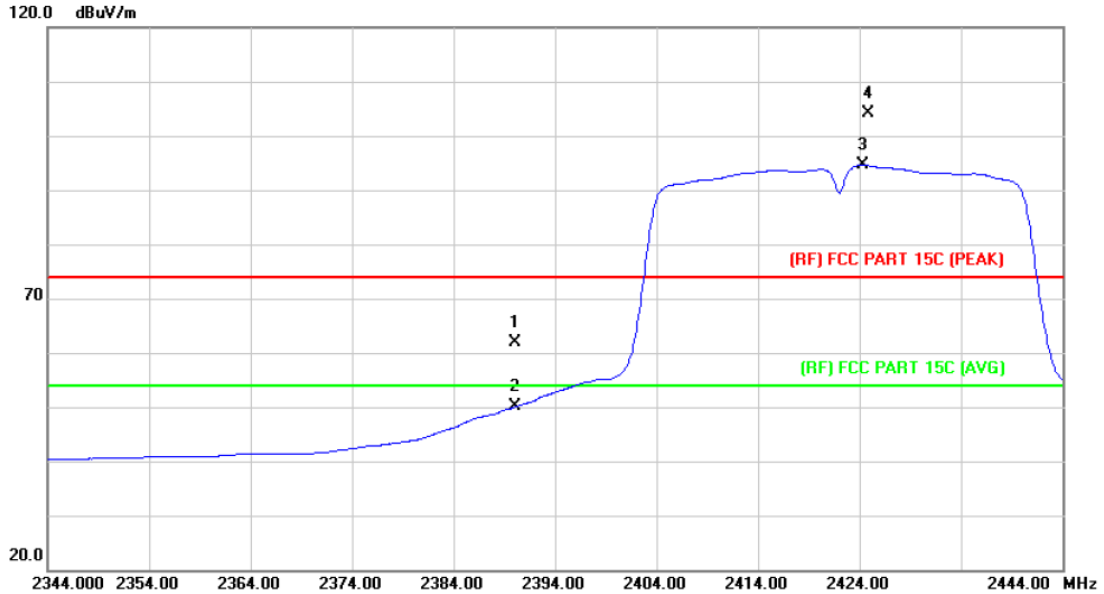
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	65.32	0.77	66.09	74.00	-7.91	peak
2	X	2390.000	53.57	0.77	54.34	54.00	0.34	AVG
3	*	2424.300	95.15	0.93	96.08	Fundamental Frequency		AVG
4	X	2424.900	104.64	0.93	105.57	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

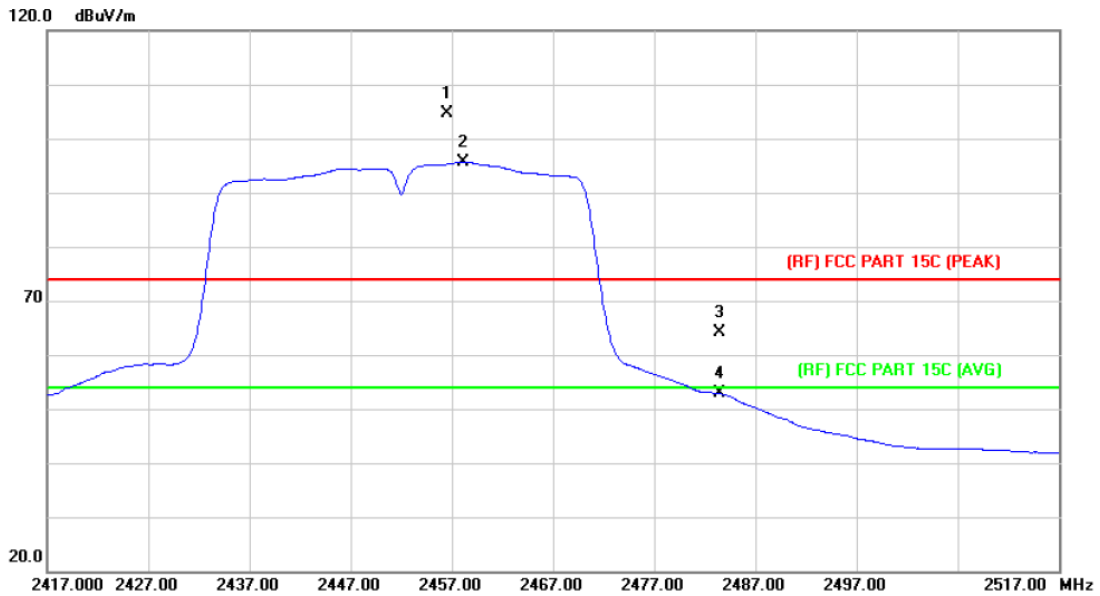
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	61.19	0.77	61.96	74.00	-12.04	peak
2		2390.000	49.25	0.77	50.02	54.00	-3.98	AVG
3	*	2424.300	93.65	0.93	94.58	Fundamental Frequency		AVG
4	X	2424.900	103.13	0.93	104.06	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

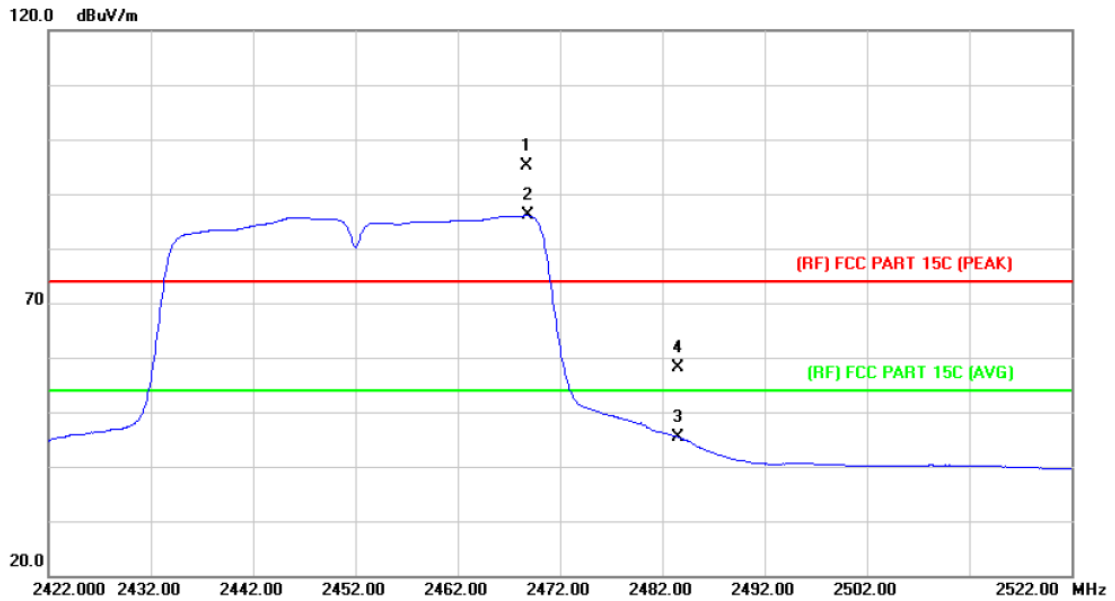
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2456.500	103.59	1.05	104.64	Fundamental Frequency		peak
2	*	2458.200	94.57	1.06	95.63	Fundamental Frequency		AVG
3		2483.500	62.99	1.17	64.16	74.00	-9.84	peak
4		2483.500	51.65	1.17	52.82	54.00	-1.18	AVG

Emission Level= Read Level+ Correct Factor

EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		

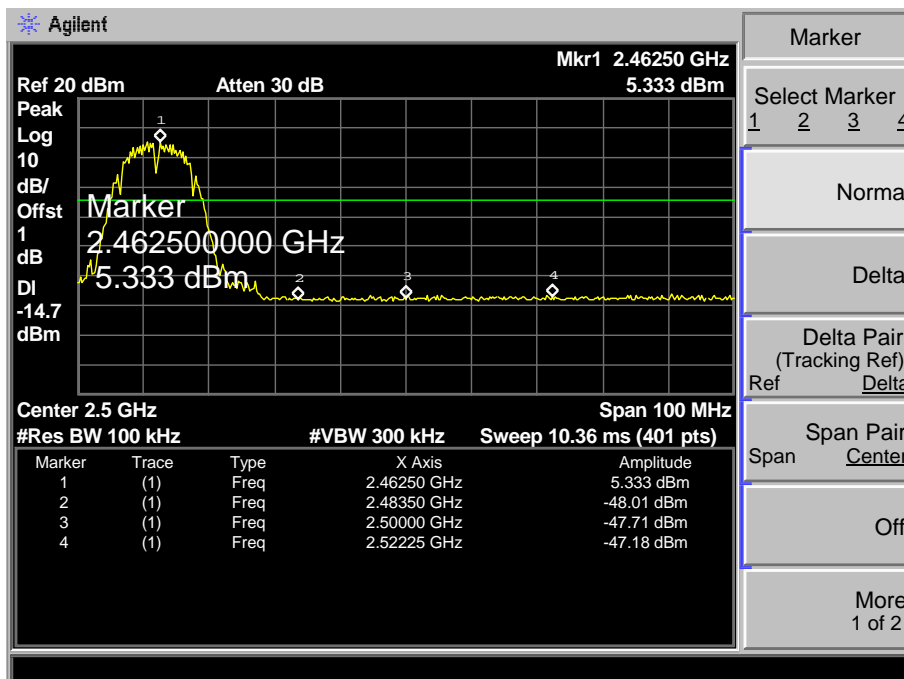
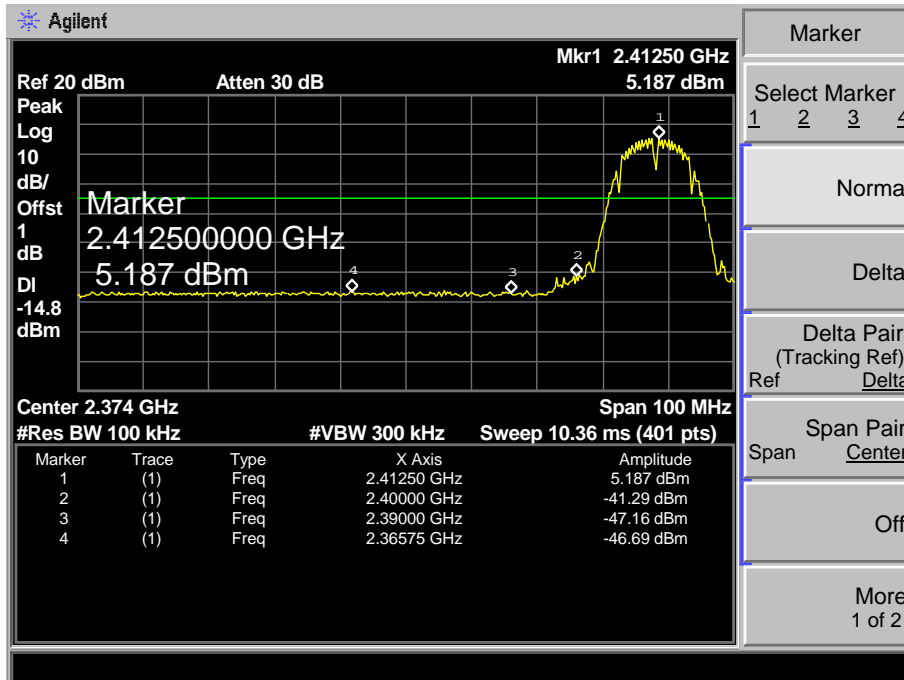


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2468.700	93.93	1.11	95.04	Fundamental Frequency		peak
2	X	2468.800	84.91	1.11	86.02	Fundamental Frequency		AVG
3		2483.500	44.30	1.17	45.47	54.00	-8.53	AVG
4		2483.500	56.89	1.17	58.06	74.00	-15.94	peak

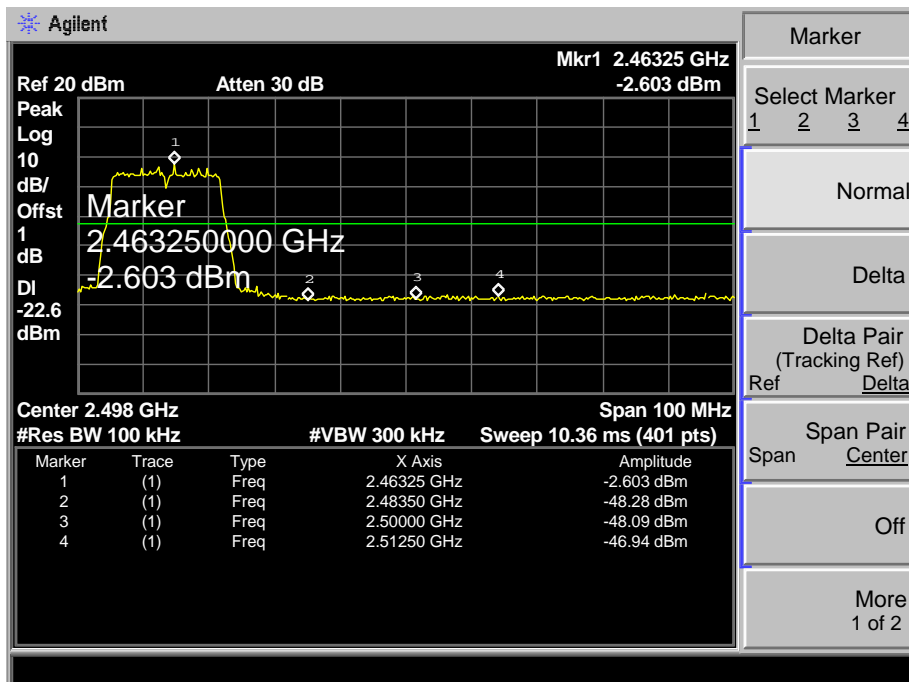
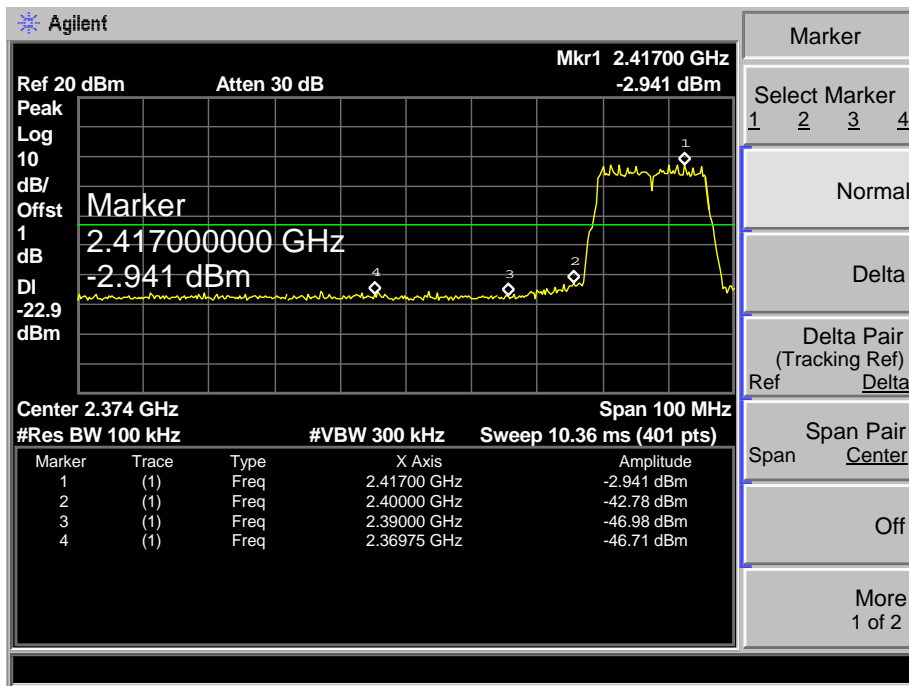
Emission Level= Read Level+ Correct Factor

(2) Conducted Test

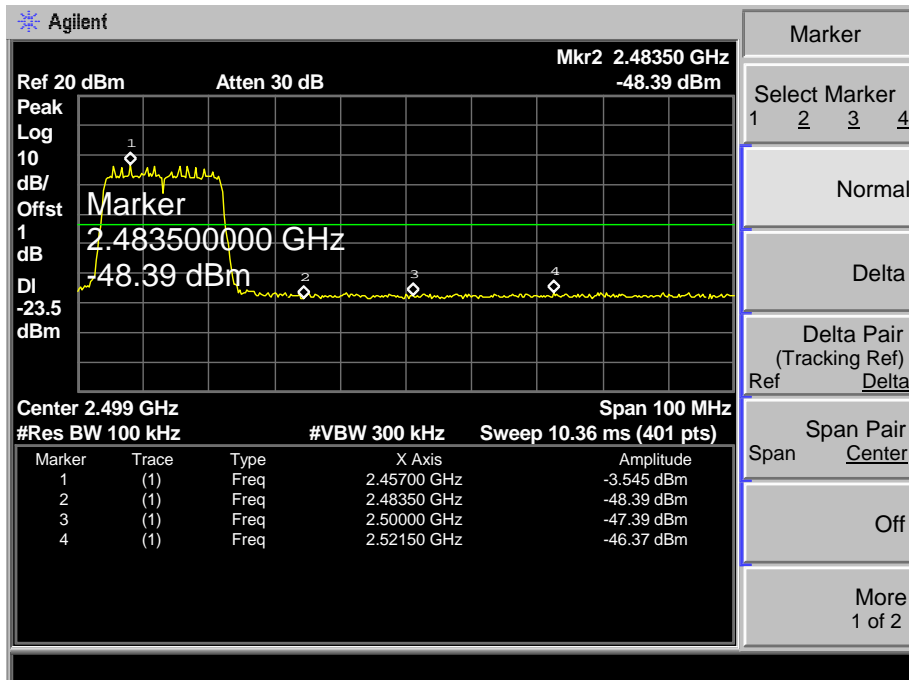
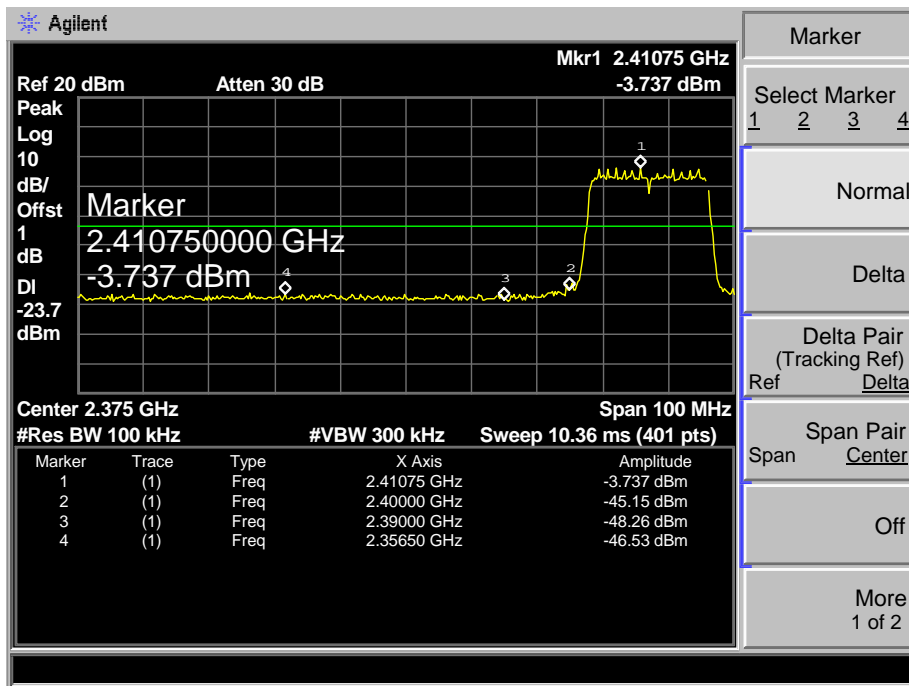
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



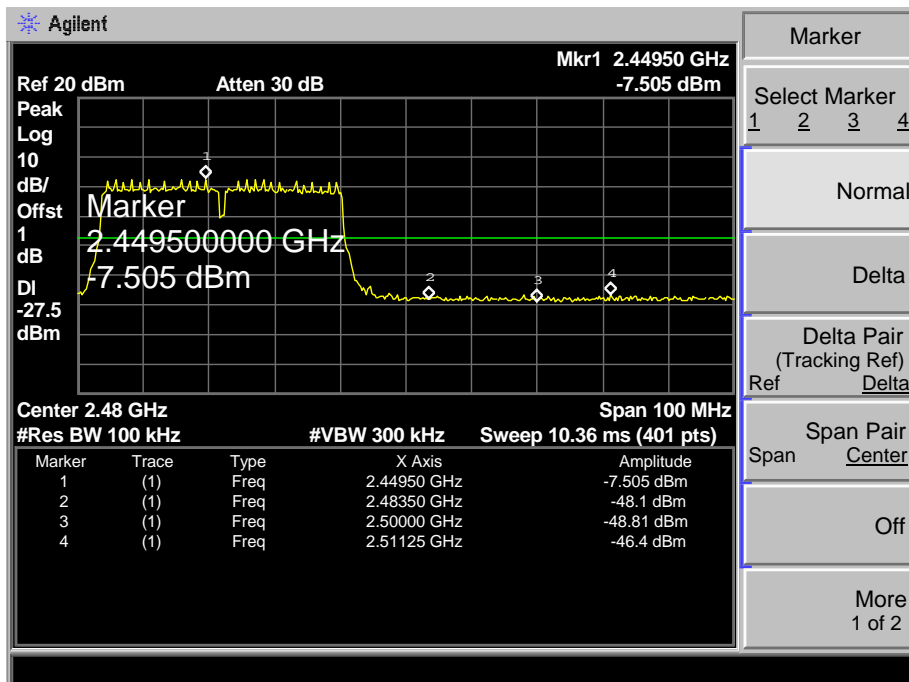
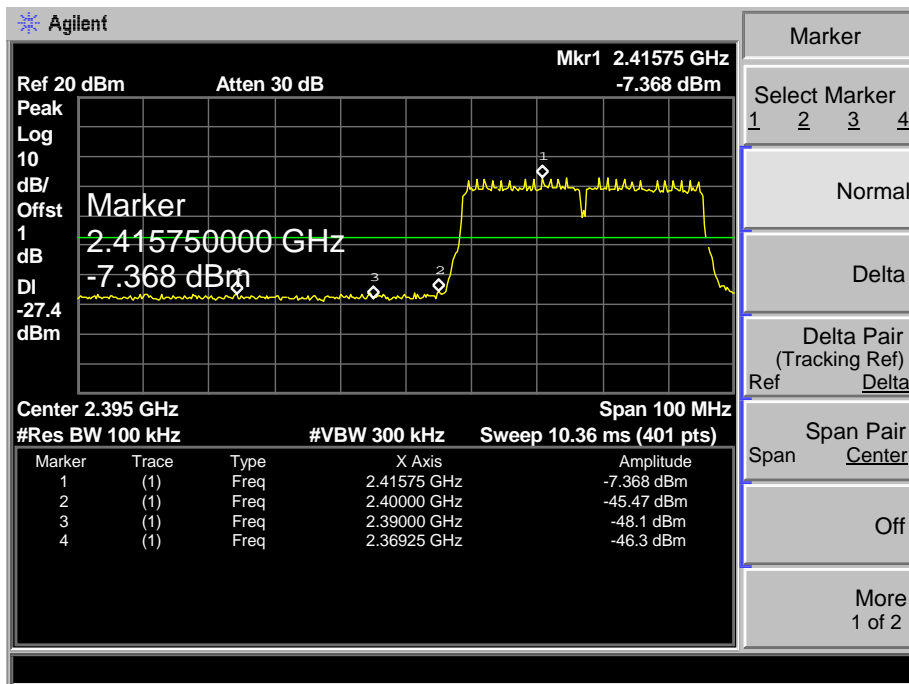
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz		
Remark:	The EUT is programed in continuously transmitting mode		



7. Bandwidth Test

7.1 Test Standard and Limit

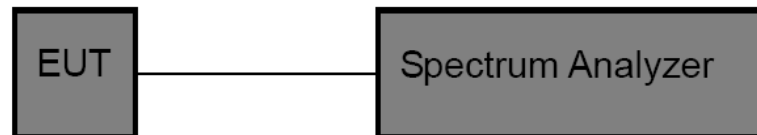
7.1.1 Test Standard

FCC Part 15.247 (a)(2)

7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210		
Test Item	Limit	Frequency Range(MHz)
Bandwidth	≥ 500 KHz (6dB bandwidth)	2400~2483.5

7.2 Test Setup



7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst -case (i.e the widest) bandwidth.
- (3) Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

7.4 EUT Operating Condition

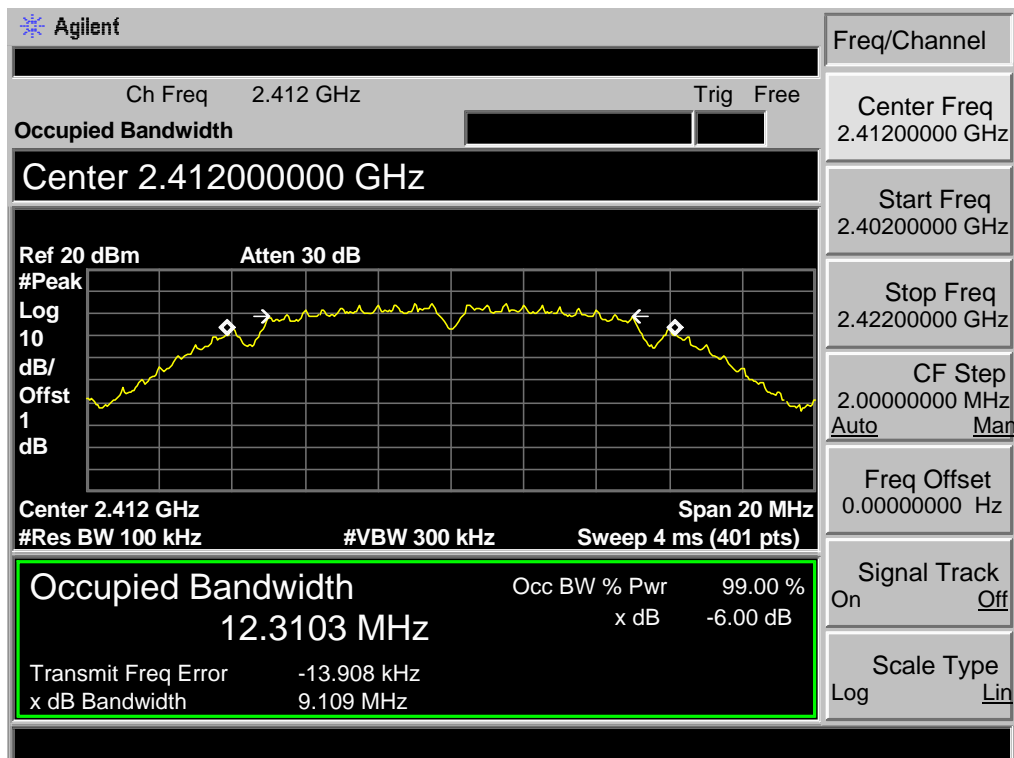
The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

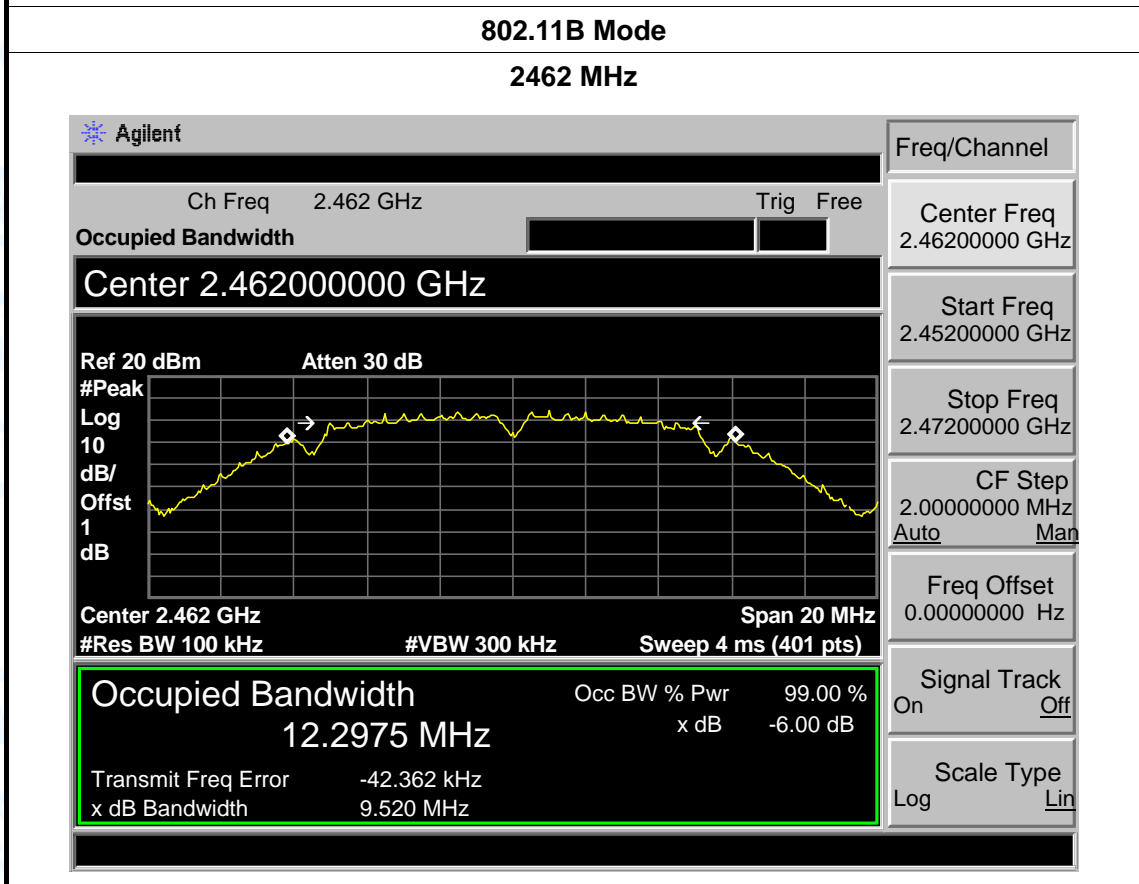
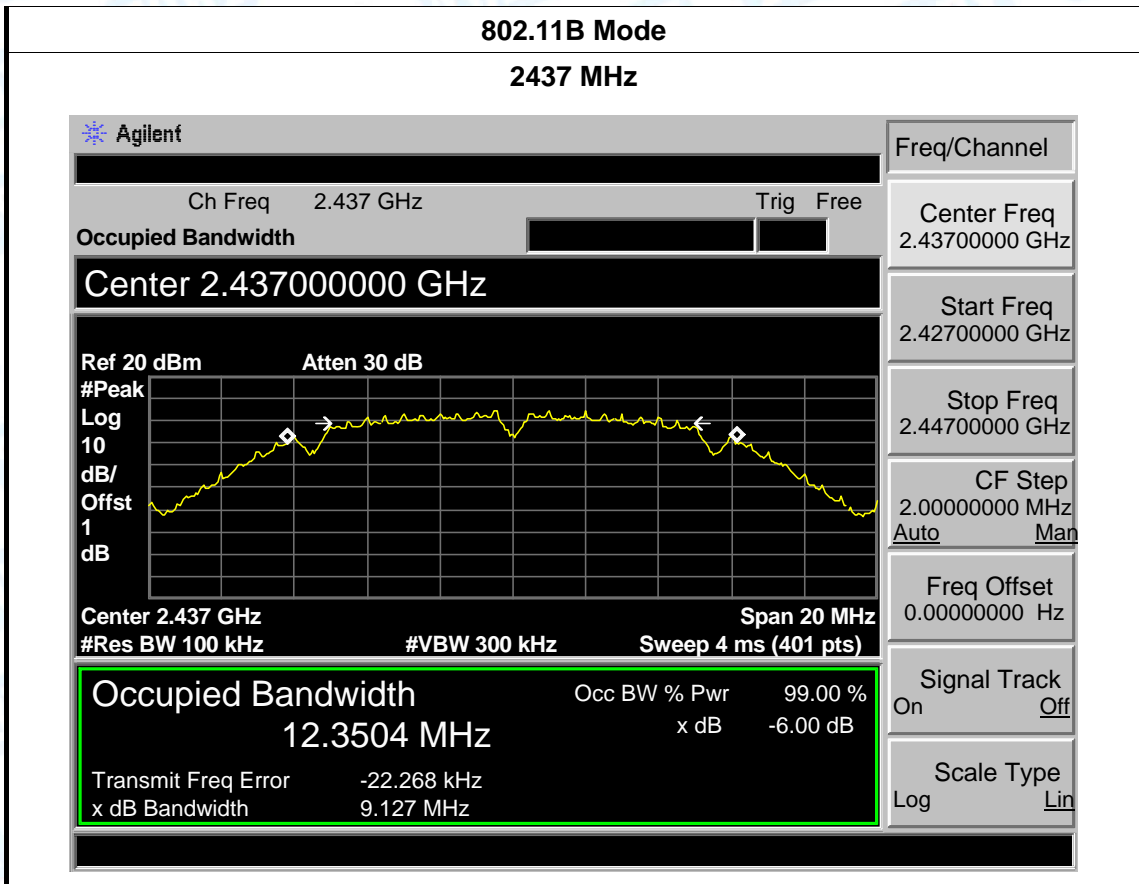
7.5 Test Data

EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX 802.11B Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	9.109	12.3103	>=0.5
2437	9.127	12.3504	
2462	9.520	12.2975	

802.11B Mode

2412 MHz

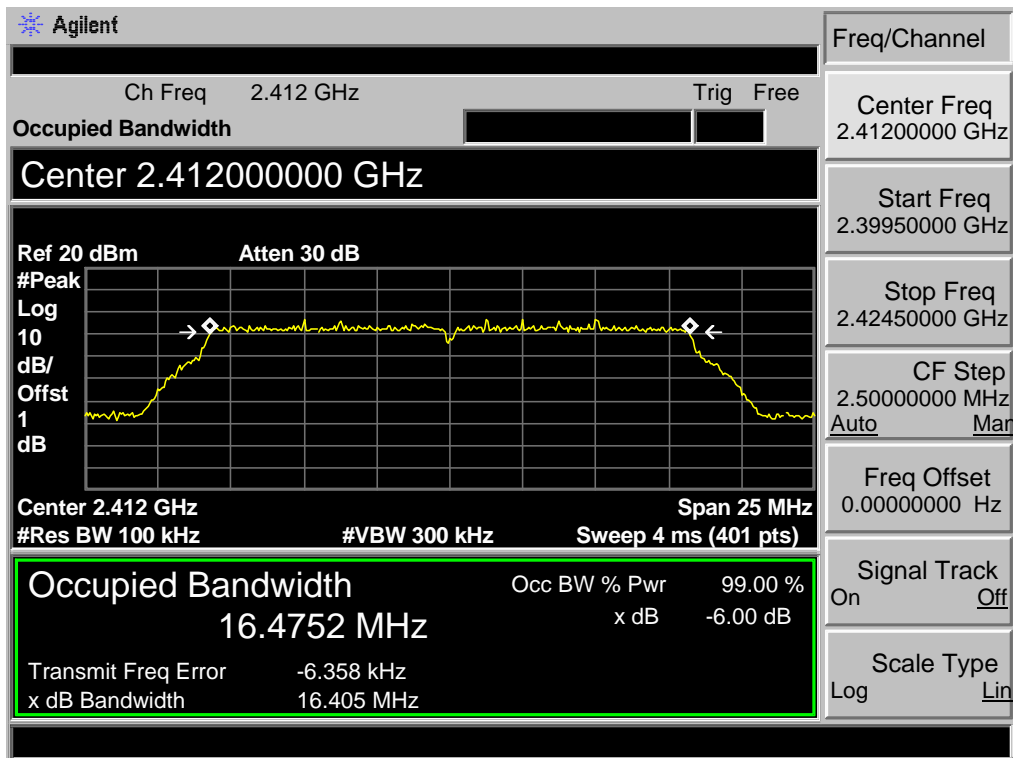


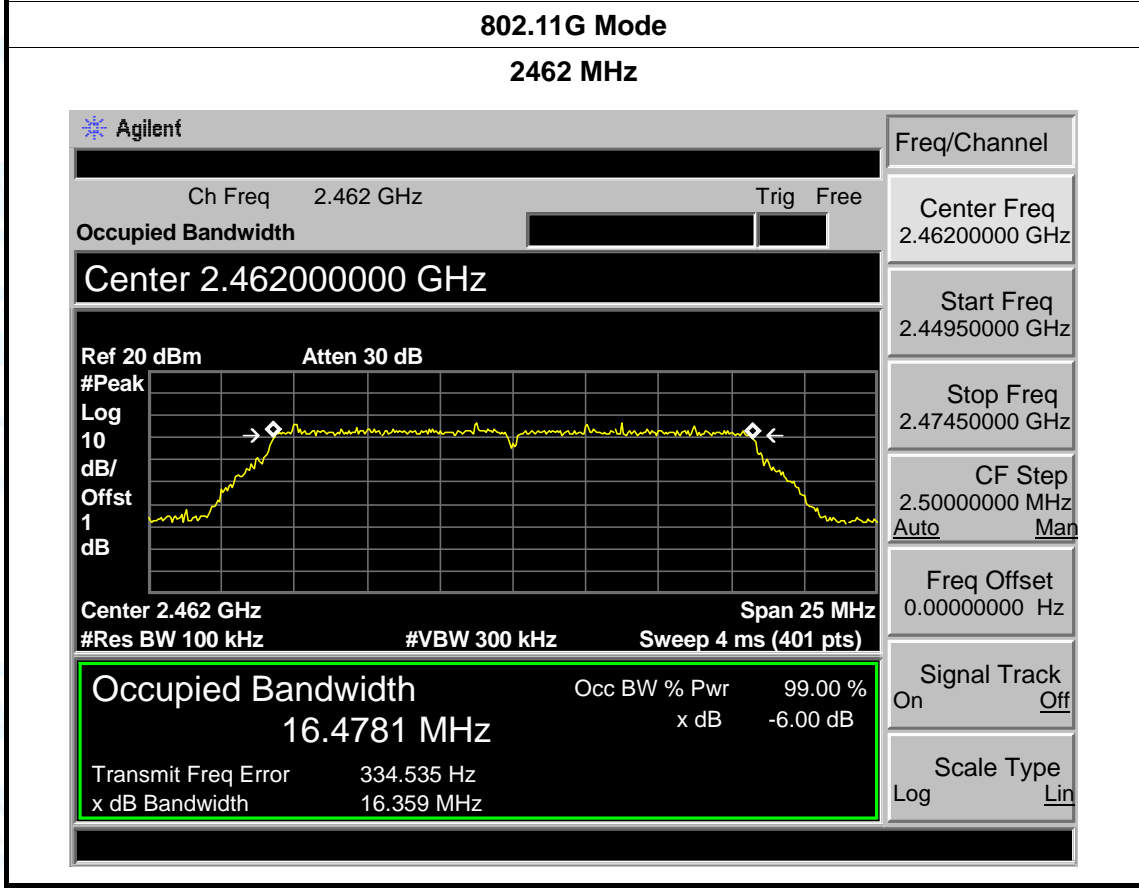
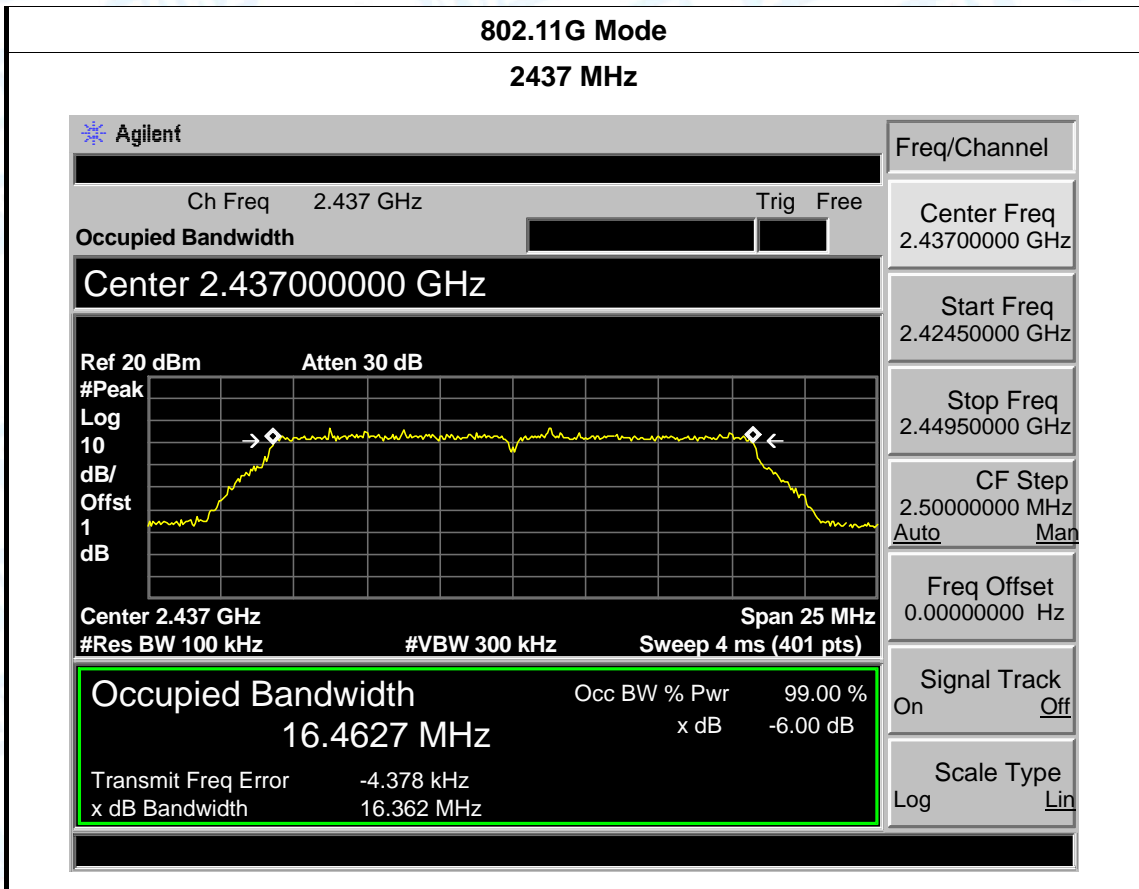


EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX 802.11G Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	16.405	16.4752	≥0.5
2437	16.362	16.4627	
2462	16.359	16.4781	

802.11G Mode

2412 MHz

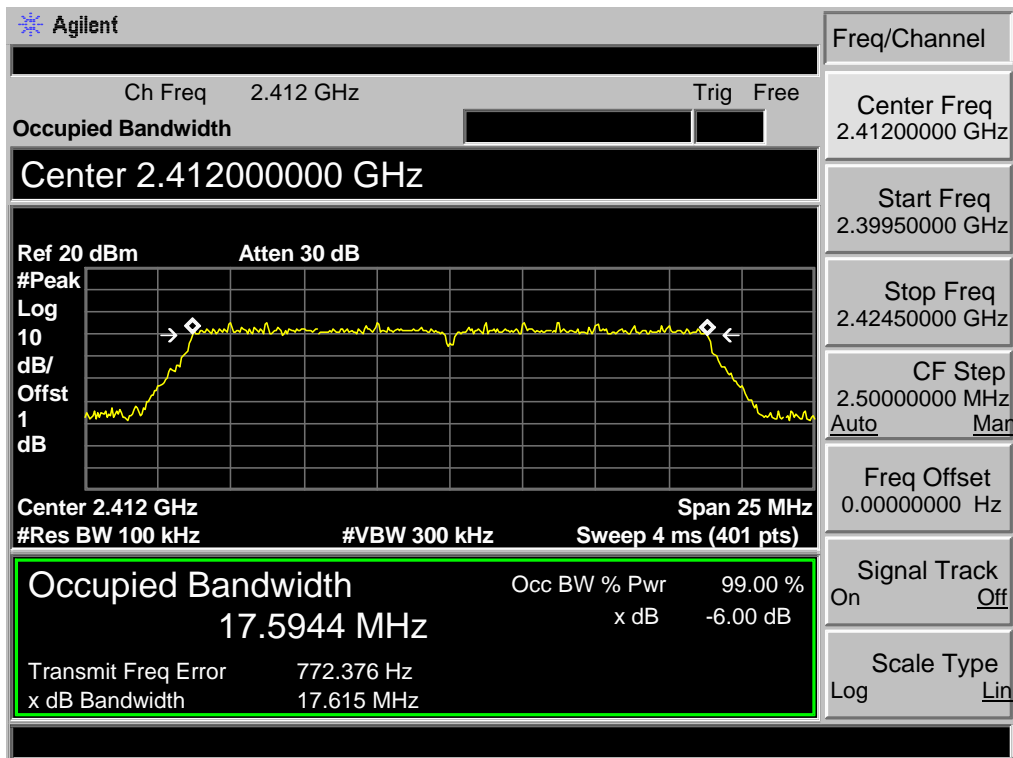




EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX 802.11N(HT20) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	17.615	17.5944	>=0.5
2437	17.650	17.6094	
2462	17.635	17.6012	

802.11N(HT20) Mode

2412 MHz



802.11N(HT20) Mode

2437 MHz

* Agilent		Freq/Channel	
Ch Freq 2.437 GHz Trig Free		Center Freq 2.43700000 GHz	
Occupied Bandwidth		Start Freq 2.42450000 GHz	
Center 2.43700000 GHz		Stop Freq 2.44950000 GHz	
Ref 20 dBm Atten 30 dB		CF Step 2.50000000 MHz Auto Man	
		Freq Offset 0.00000000 Hz	
Center 2.437 GHz Span 25 MHz		Signal Track On Off	
#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)		Scale Type Log Lin	
Occupied Bandwidth Occ BW % Pwr 99.00 % 17.6094 MHz x dB -6.00 dB			
Transmit Freq Error 5.724 kHz			
x dB Bandwidth 17.650 MHz			

802.11N(HT20) Mode

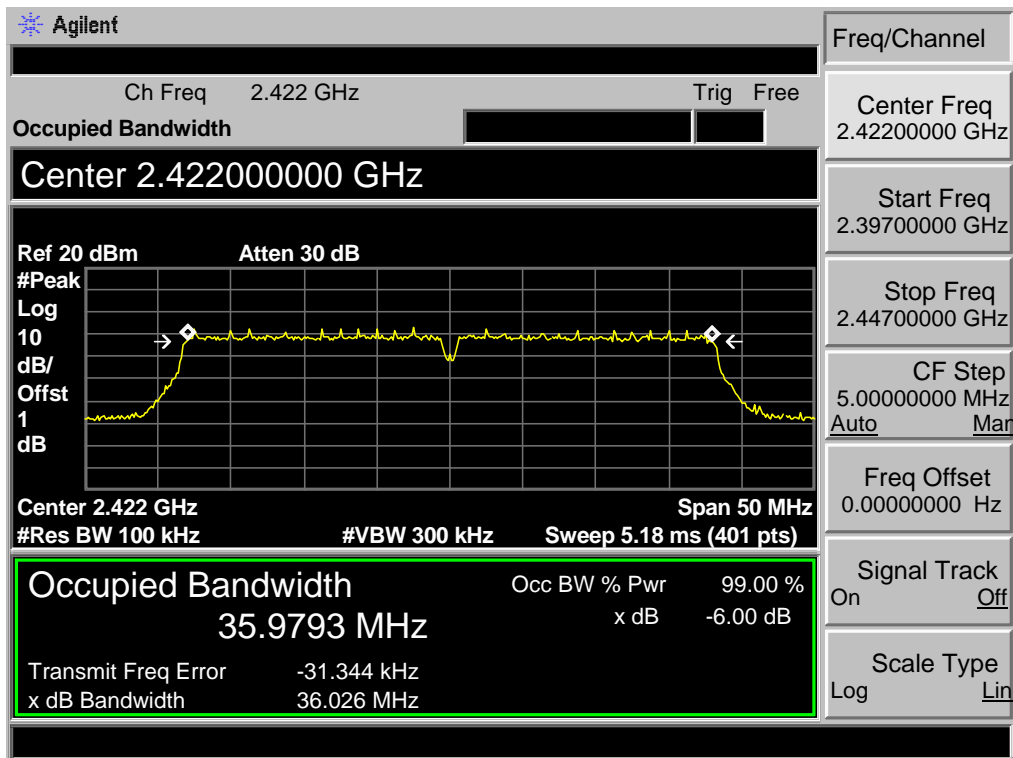
2462 MHz

* Agilent		Freq/Channel	
Ch Freq 2.462 GHz Trig Free		Center Freq 2.46200000 GHz	
Occupied Bandwidth		Start Freq 2.44950000 GHz	
Center 2.46200000 GHz		Stop Freq 2.47450000 GHz	
Ref 20 dBm Atten 30 dB		CF Step 2.50000000 MHz Auto Man	
		Freq Offset 0.00000000 Hz	
Center 2.462 GHz Span 25 MHz		Signal Track On Off	
#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)		Scale Type Log Lin	
Occupied Bandwidth Occ BW % Pwr 99.00 % 17.6012 MHz x dB -6.00 dB			
Transmit Freq Error 2.755 kHz			
x dB Bandwidth 17.635 MHz			

EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX 802.11N(HT40) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2422	36.026	35.9793	>=0.5
2437	36.080	35.9570	
2452	36.088	35.9694	

802.11N(HT40) Mode

2422 MHz



802.11N(HT40) Mode

2437 MHz

* Agilent		Freq/Channel	
Ch Freq 2.437 GHz Trig Free		Center Freq 2.43700000 GHz	
Occupied Bandwidth		Start Freq 2.41200000 GHz	
Center 2.43700000 GHz		Stop Freq 2.46200000 GHz	
Ref 20 dBm Atten 30 dB		CF Step 5.00000000 MHz Auto Man	
		Freq Offset 0.00000000 Hz	
Center 2.437 GHz Span 50 MHz		Signal Track On Off	
#Res BW 100 kHz #VBW 300 kHz Sweep 5.18 ms (401 pts)		Scale Type Log Lin	
Occupied Bandwidth 35.9570 MHz		Occ BW % Pwr 99.00 % x dB -6.00 dB	
Transmit Freq Error -27.627 kHz			
x dB Bandwidth 36.080 MHz			

802.11N(HT40) Mode

2452 MHz

* Agilent		Freq/Channel	
Ch Freq 2.452 GHz Trig Free		Center Freq 2.45200000 GHz	
Occupied Bandwidth		Start Freq 2.42700000 GHz	
Center 2.45200000 GHz		Stop Freq 2.47700000 GHz	
Ref 20 dBm Atten 30 dB		CF Step 5.00000000 MHz Auto Man	
		Freq Offset 0.00000000 Hz	
Center 2.452 GHz Span 50 MHz		Signal Track On Off	
#Res BW 100 kHz #VBW 300 kHz Sweep 5.18 ms (401 pts)		Scale Type Log Lin	
Occupied Bandwidth 35.9694 MHz		Occ BW % Pwr 99.00 % x dB -6.00 dB	
Transmit Freq Error -43.537 kHz			
x dB Bandwidth 36.088 MHz			

8. Peak Output Power Test

8.1 Test Standard and Limit

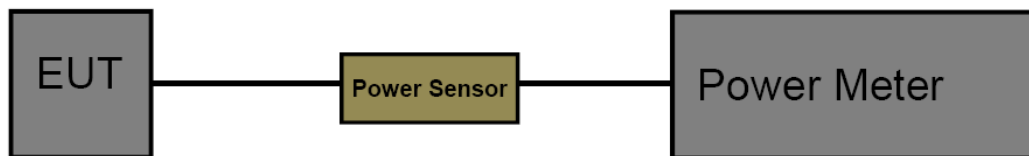
8.1.1 Test Standard

FCC Part 15.247 (b)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210		
Test Item	Limit	Frequency Range(MHz)
Peak Output Power	1 Watt or 30 dBm	2400~2483.5

8.2 Test Setup



8.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 DTS Meas Guidance v04. The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

8.4 EUT Operating Condition

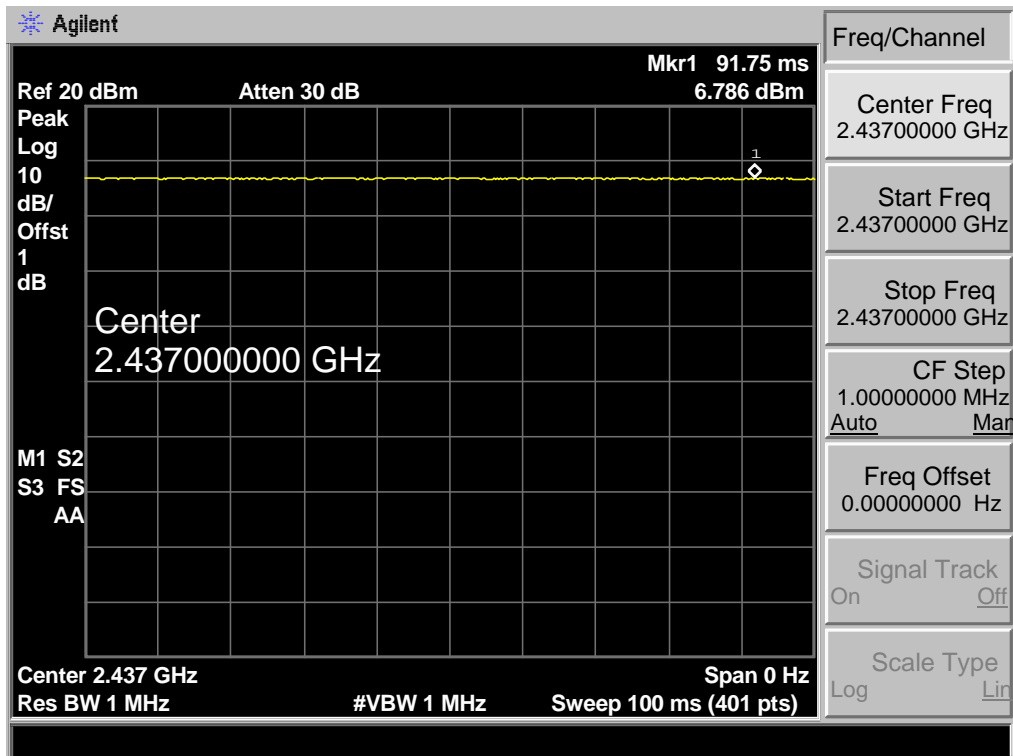
The EUT was set to continuously transmitting in the max power during the test.

8.5 Test Data

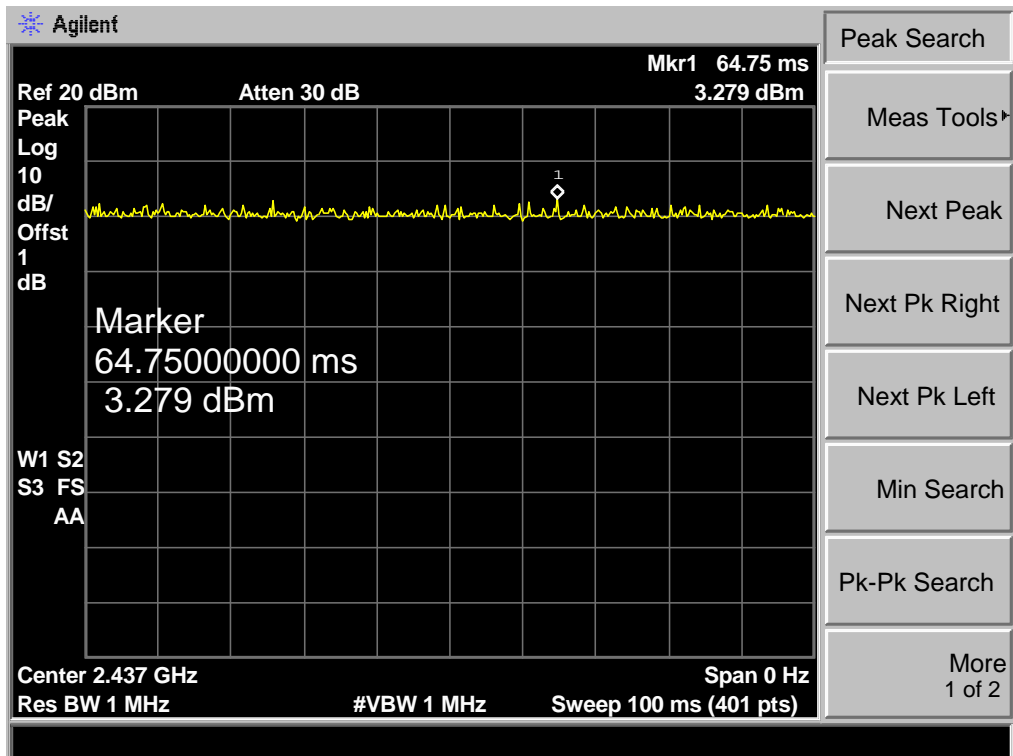
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
802.11b	2412	16.91	30
	2437	16.78	
	2462	16.77	
802.11g	2412	13.34	
	2437	13.32	
	2462	13.38	
802.11n (HT20)	2412	12.37	
	2437	12.85	
	2462	12.54	
802.11n (HT40)	2422	12.10	
	2437	12.22	
	2452	12.13	
Result: PASS			

Duty Cycle		
Mode	Channel frequency (MHz)	Test Result
802.11b	2412	>98%
	2437	
	2462	
802.11g	2412	
	2437	
	2462	
802.11n (HT20)	2412	
	2437	
	2462	
802.11n (HT40)	2422	
	2437	
	2452	
Please see below plots		

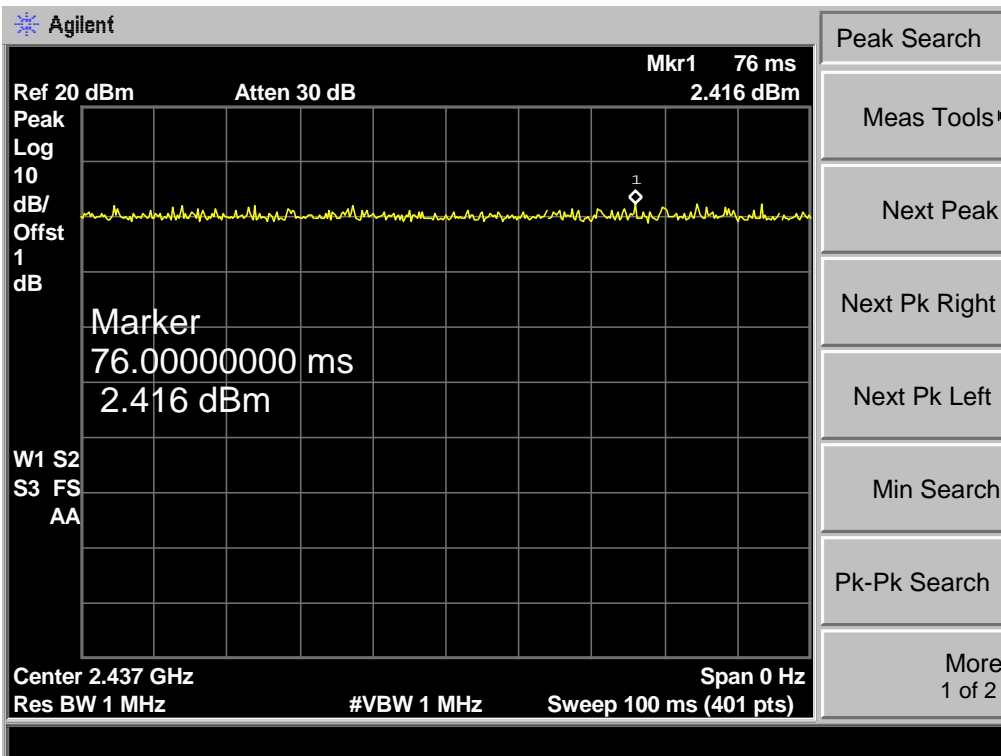
802.11 B Mode 2437 MHz



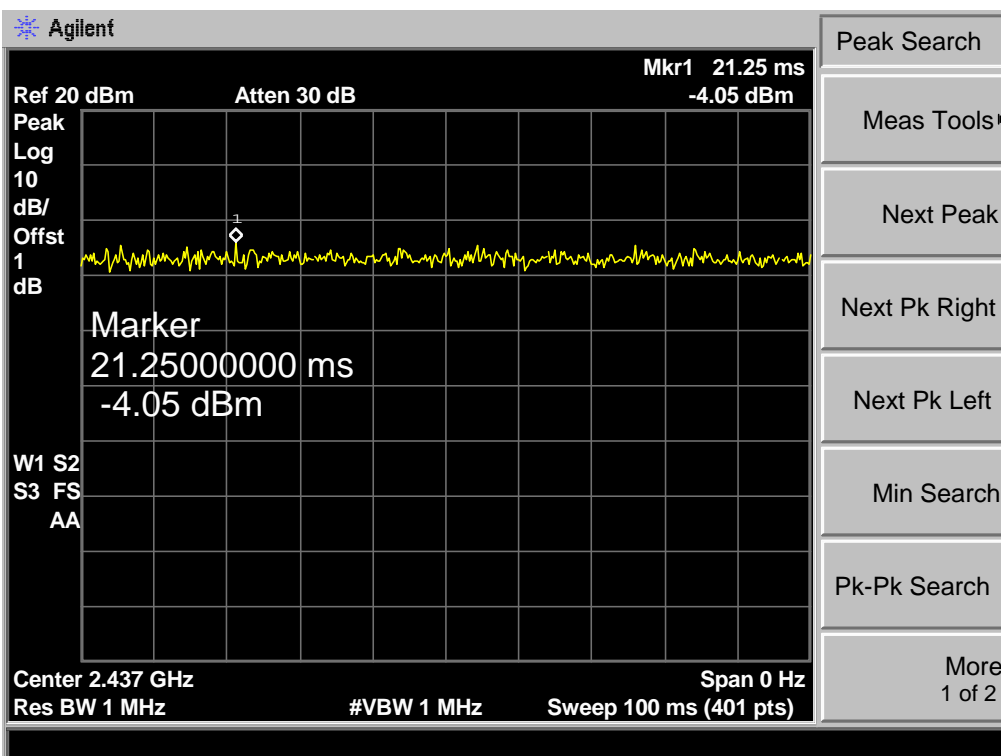
802.11 G Mode 2437 MHz



802.11 N(HT20) Mode 2437 MHz



802.11 N(HT40) Mode 2437 MHz



9. Power Spectral Density Test

9.1 Test Standard and Limit

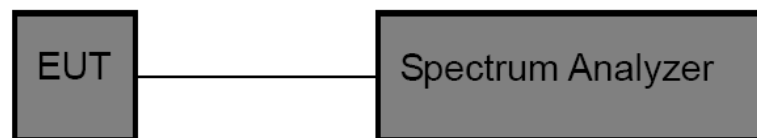
9.1.1 Test Standard

FCC Part 15.247 (e)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)		
Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

9.2 Test Setup



9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v04.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz
- (5) Set the VBW to: 10 kHz
- (6) Detector: peak
- (7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

9.4 EUT Operating Condition

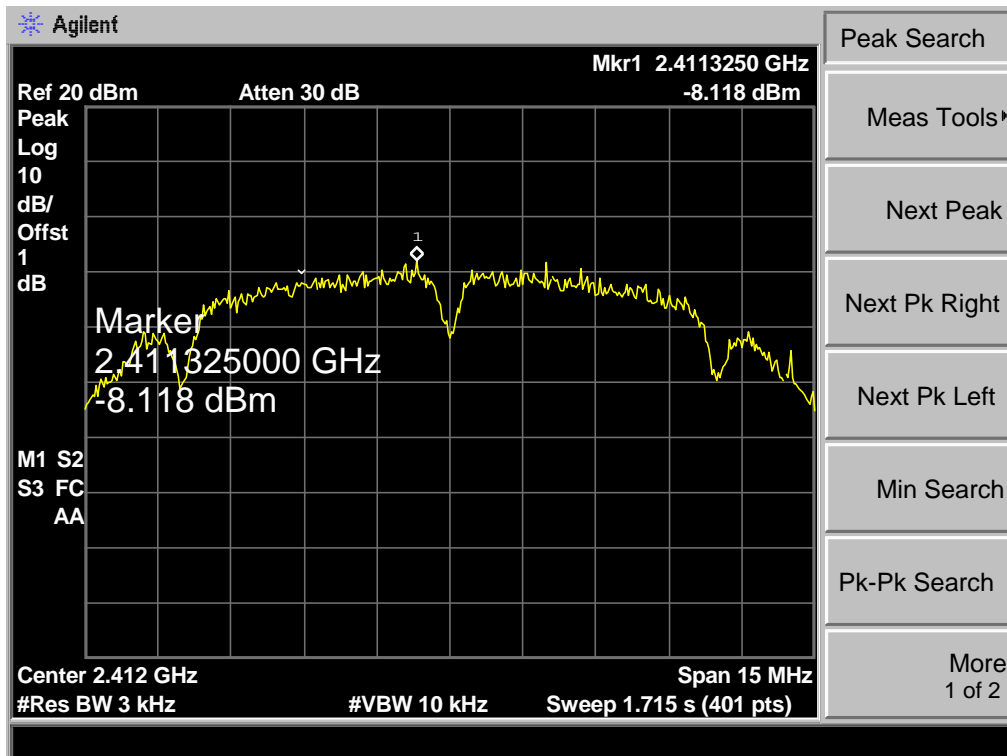
The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

9.5 Test Data

EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX 802.11B Mode		
Channel Frequency (MHz)	Power Density (dBm/3 kHz)	Limit (dBm)	
2412	-8.118	8	
2437	-9.433		
2462	-5.828		

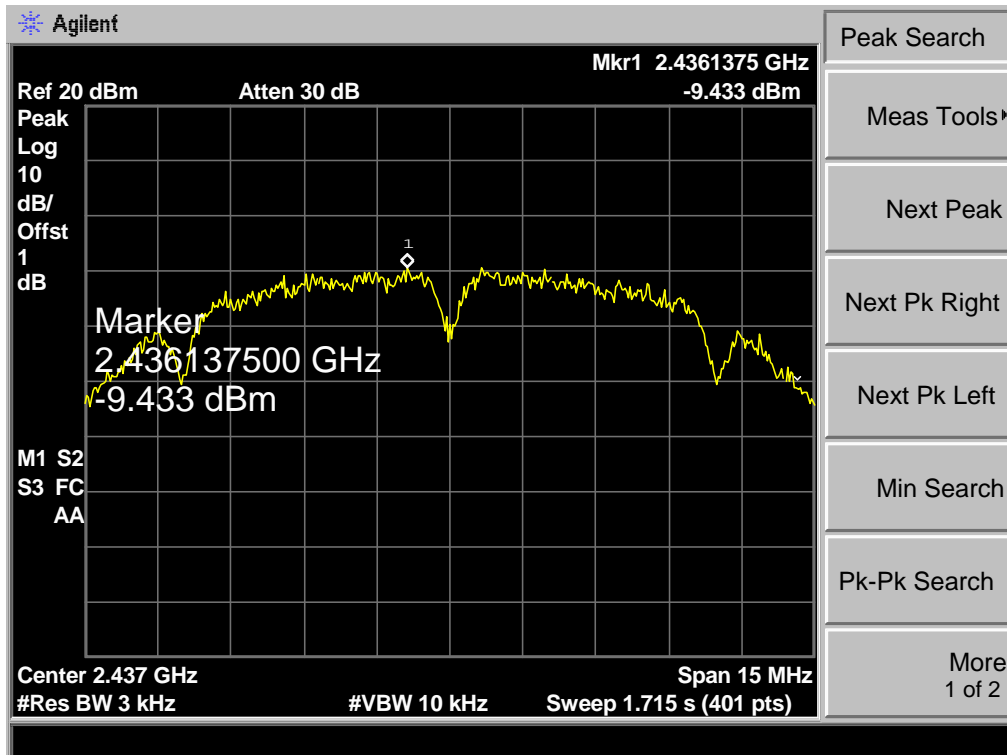
802.11B Mode

2412 MHz



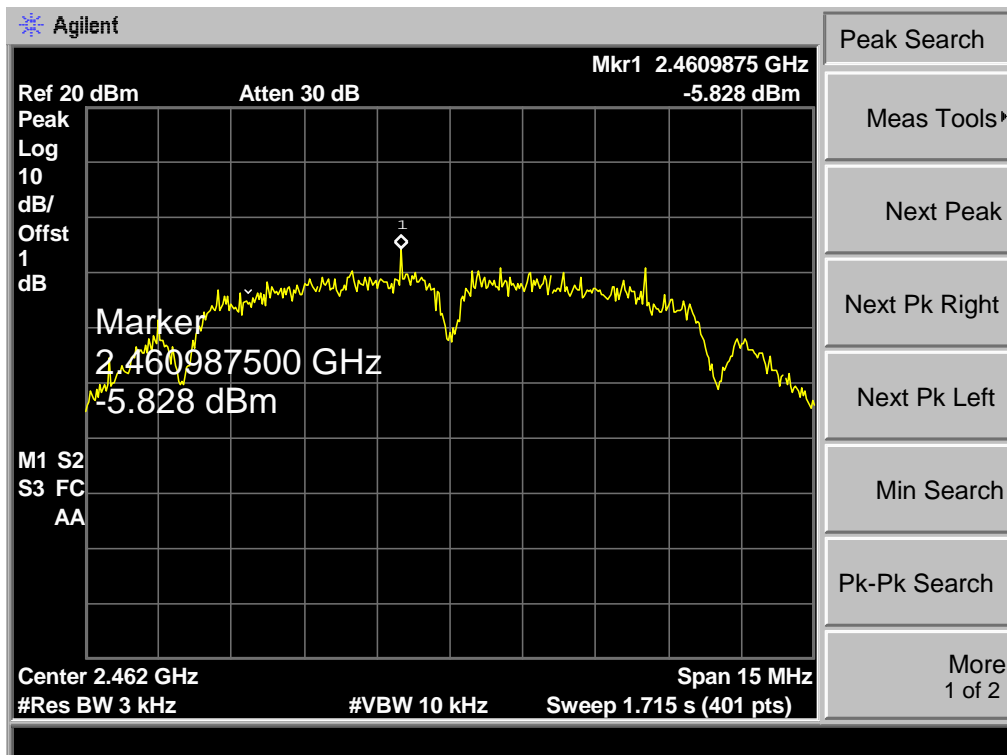
802.11B Mode

2437 MHz

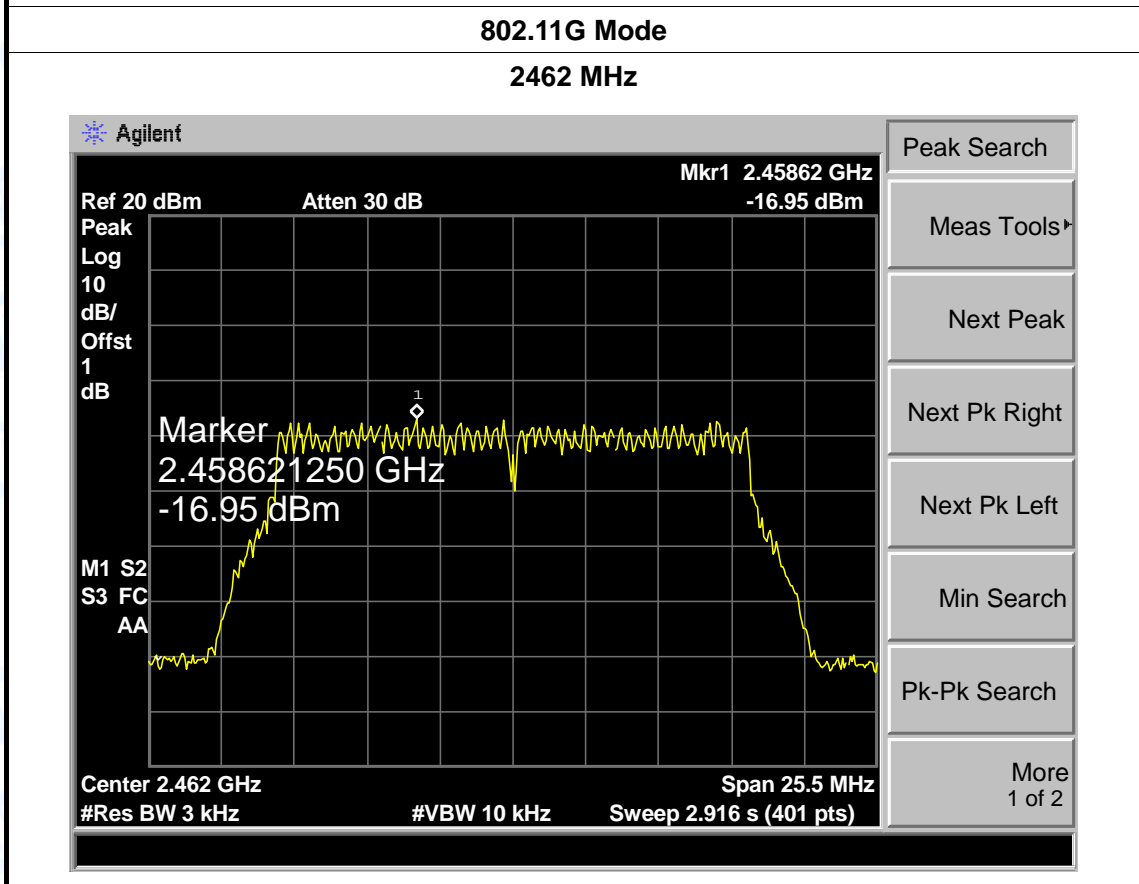
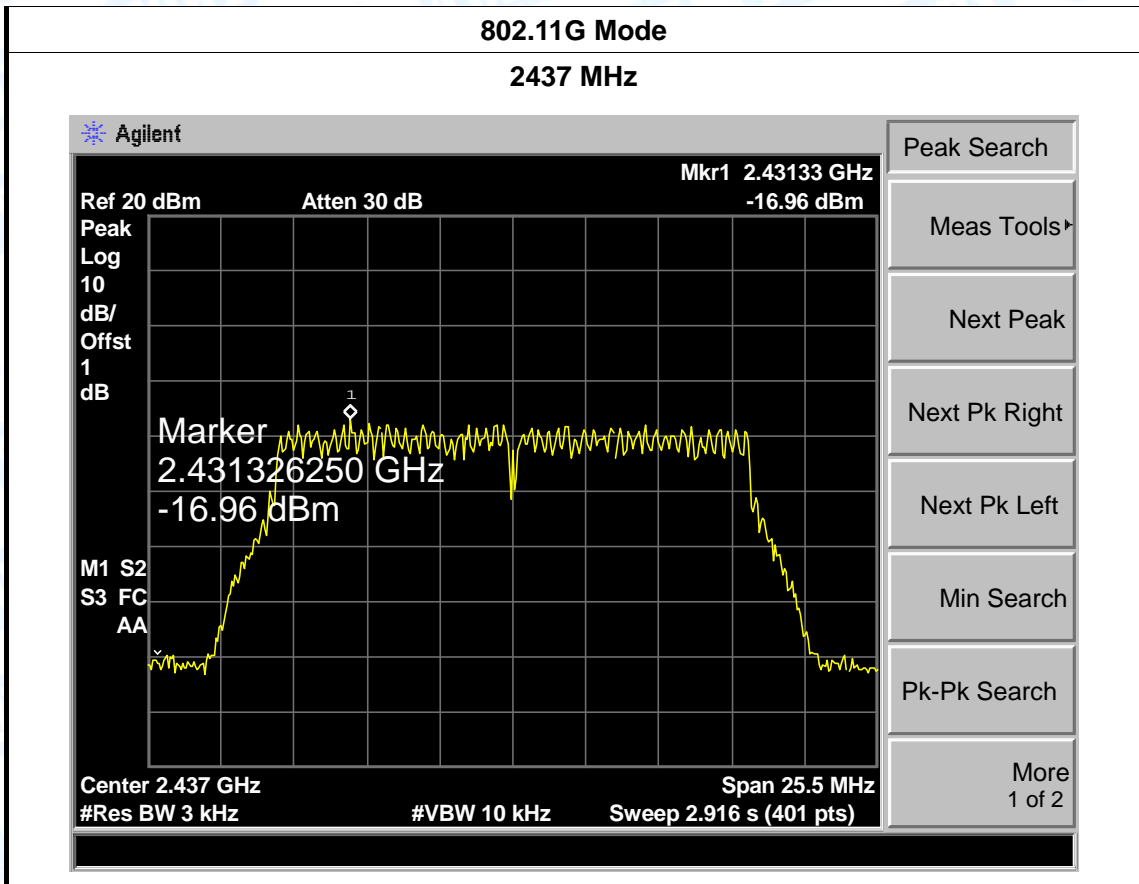


802.11B Mode

2462 MHz



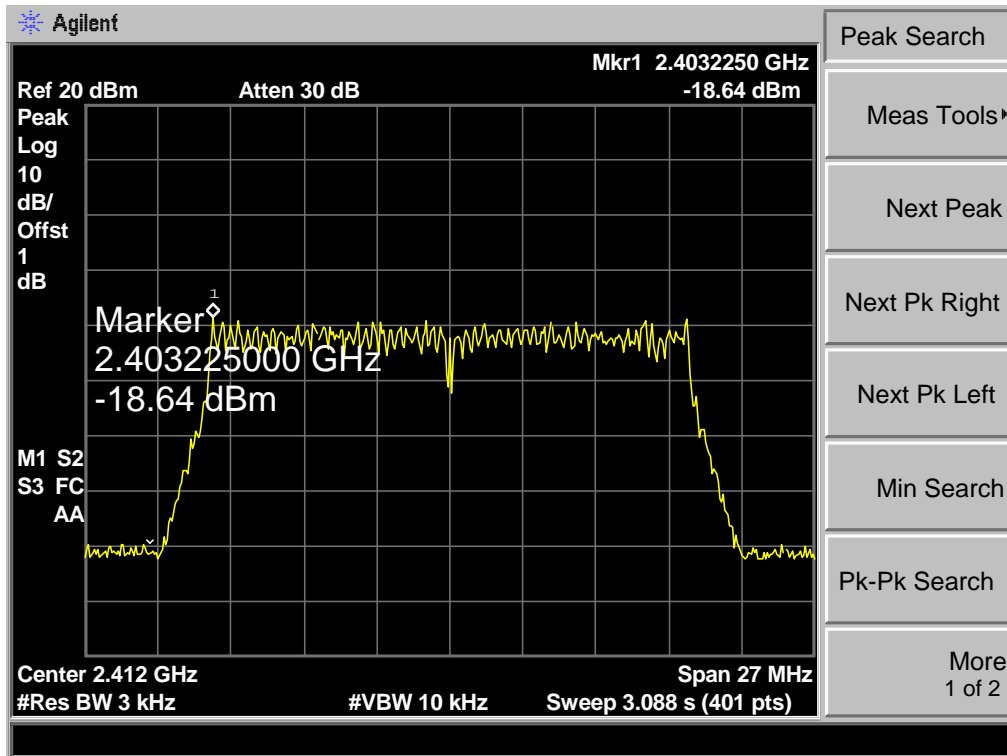
EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Temperature:	25 °C
Test Voltage:	DC 3.8V		
Test Mode:	TX 802.11G Mode		
Channel Frequency (MHz)	Power Density (dBm/3 kHz)	Limit (dBm)	
2412	-17.22	8	
2437	-16.96		
2462	-16.95		
802.11G Mode			
2412 MHz			
<p>The screenshot shows an Agilent spectrum analyzer interface. The main display area shows a signal trace with a peak at 2.41073 GHz. A marker is placed on the peak, displaying 'Marker 2.410725000 GHz -17.22 dBm'. The top right corner of the plot area shows 'Mkr1 2.41073 GHz -17.22 dBm'. The left side of the plot area shows 'Ref 20 dBm' and 'Atten 30 dB'. The bottom of the plot area shows 'Center 2.412 GHz', '#Res BW 3 kHz', '#VBW 10 kHz', 'Span 25.5 MHz', and 'Sweep 2.916 s (401 pts)'. On the right side of the plot area, there is a vertical toolbar with buttons for 'Peak Search', 'Meas Tools', 'Next Peak', 'Next Pk Right', 'Next Pk Left', 'Min Search', and 'Pk-Pk Search'. At the bottom right of the toolbar, it says 'More 1 of 2'.</p>			



EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Temperature:	25 °C
Test Voltage:	DC 3.8V		
Test Mode:	TX 802.11N(HT20) Mode		
Channel Frequency (MHz)	Power Density (dBm/3 kHz)	Limit (dBm)	
2412	-18.64	8	
2437	-18.24		
2462	-18.43		

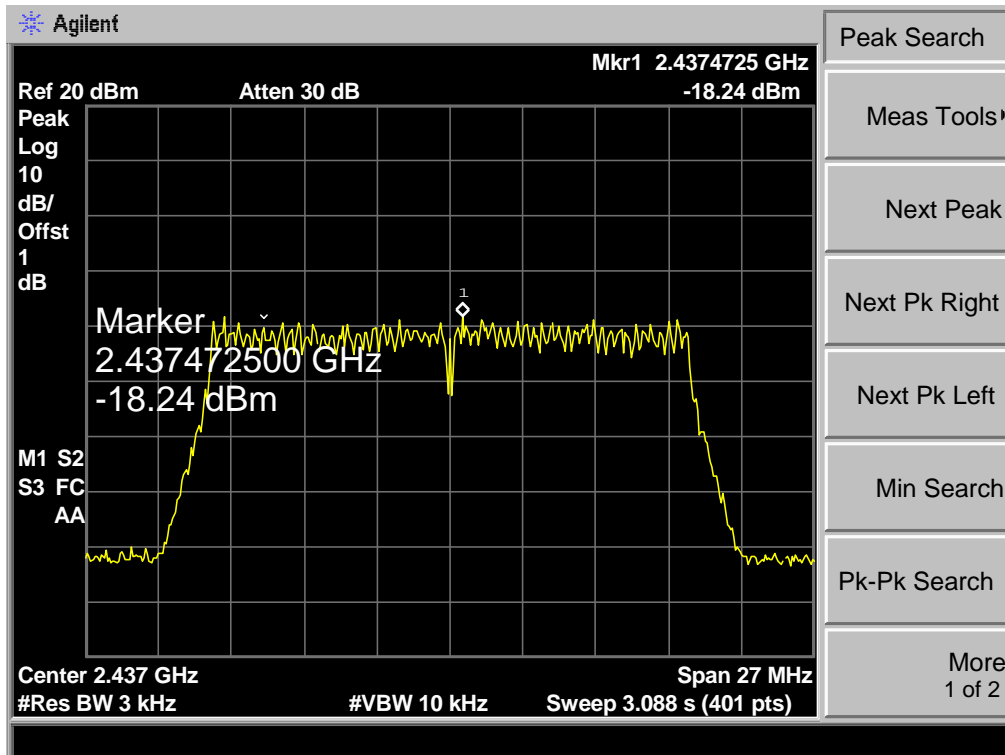
802.11N(HT20) Mode

2412 MHz



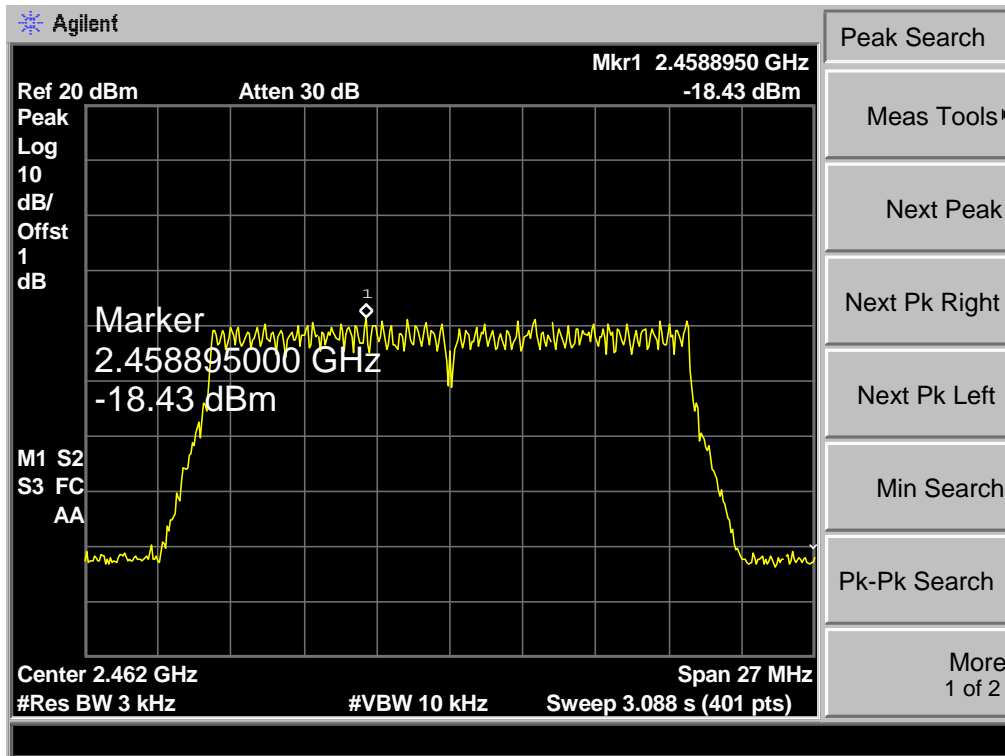
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

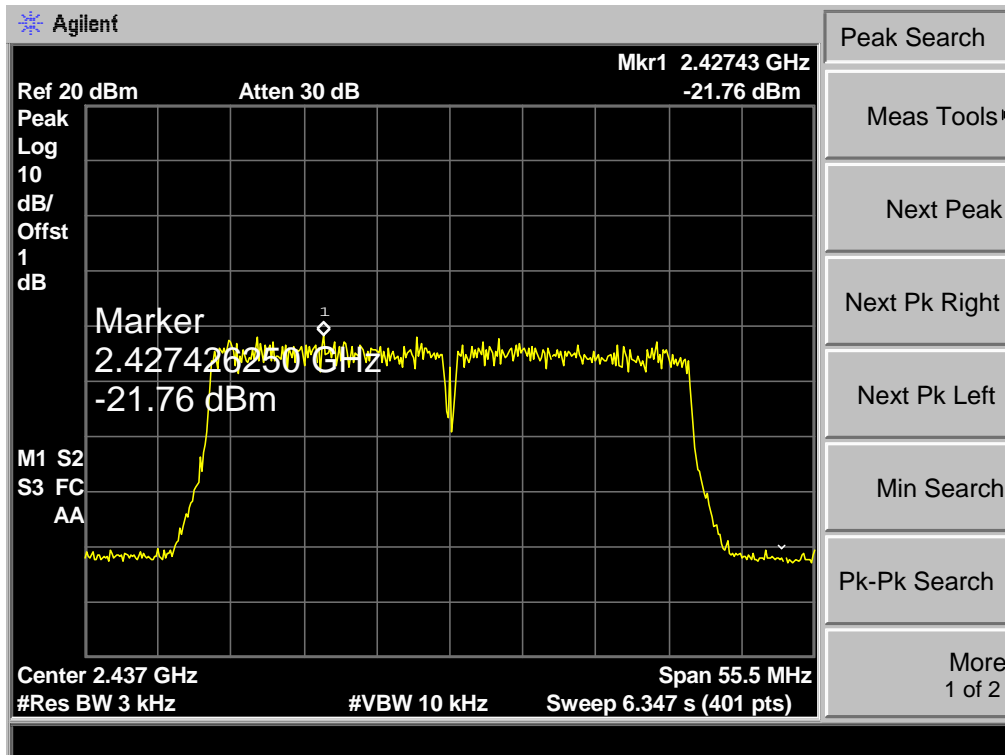
2462 MHz



EUT:	ROCK X11	Model:	ROCK X11
Temperature:	25 °C	Temperature:	25 °C
Test Voltage:	DC 3.8V		
Test Mode:	TX 802.11N(HT40) Mode		
Channel Frequency (MHz)	Power Density (dBm/3 kHz)	Limit (dBm)	
2422	-21.94	8	
2437	-21.76		
2452	-19.73		
802.11N(HT40) Mode			
2422 MHz			
<p>Agilent Spectrum Analyzer Screenshot:</p> <ul style="list-style-type: none"> Ref 20 dBm, Atten 30 dB Mkr1 2.42949 GHz, -21.94 dBm Marker: 2.42949 GHz, -21.94 dBm Center 2.422 GHz, Span 55.5 MHz, #Res BW 3 kHz, #VBW 10 kHz, Sweep 6.347 s (401 pts) 			

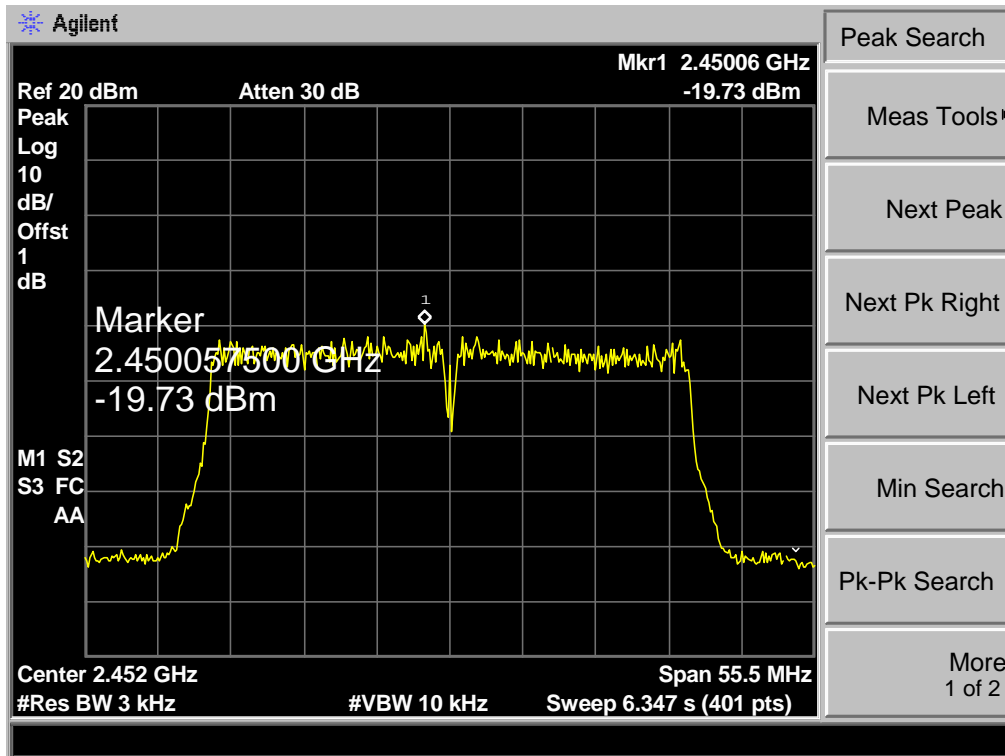
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz



10. Antenna Requirement

10.1 Standard Requirement

10.1.1 Standard

FCC Part 15.203

10.1.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 1.15dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

Result

The EUT antenna is a PIFA Antenna. It complies with the standard requirement.

Antenna Type
<input type="checkbox"/> Permanent attached antenna
<input checked="" type="checkbox"/> Unique connector antenna
<input type="checkbox"/> Professional installation antenna

-----END OF REPORT-----