

# FCC Radio Test Report

## FCC ID: L9VWAP5903

### Original Grant

**Report No.** : TB-FCC171063  
**Applicant** : COMTREND Corporation  
**Equipment Under Test (EUT)**  
**EUT Name** : AC1200 Dual Band WiFi Mesh Extender  
**Model No.** : WAP-5903  
**Series Model No.** : N/A  
**S/N Number:** : M1914000765, M1914000766  
**Brand Name** : COMTREND  
**Receipt Date** : 2019-12-05  
**Test Date** : 2019-12-07 to 2020-03-24  
**Issue Date** : 2020-03-25  
**Standards** : FCC Part 15, Subpart C 15.247  
**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** :  Jack Deng  
**Test/Witness Engineer** :  Ivan Su  
**Approved & Authorized** :  Benny Xu



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.

## Contents

<b>CONTENTS</b> .....	<b>2</b>
<b>1. GENERAL INFORMATION ABOUT EUT</b> .....	<b>5</b>
1.1 Client Information.....	5
1.2 General Description of EUT (Equipment Under Test) .....	5
1.3 Block Diagram Showing the Configuration of System Tested.....	7
1.4 Description of Support Units .....	7
1.5 Description of Test Mode.....	8
1.6 Description of Test Software Setting .....	9
1.7 Measurement Uncertainty .....	10
1.8 Test Facility.....	10
<b>2. TEST SUMMARY</b> .....	<b>11</b>
<b>3. TEST SOFTWARE</b> .....	<b>11</b>
<b>4. TEST EQUIPMENT</b> .....	<b>12</b>
<b>5. CONDUCTED EMISSION TEST</b> .....	<b>13</b>
5.1 Test Standard and Limit.....	13
5.2 Test Setup.....	13
5.3 Test Procedure.....	14
5.4 Deviation From Test Standard.....	14
5.5 EUT Operating Mode .....	14
5.6 Test Data.....	14
<b>6. RADIATED EMISSION TEST</b> .....	<b>15</b>
6.1 Test Standard and Limit.....	15
6.2 Test Setup.....	16
6.3 Test Procedure.....	17
6.4 Deviation From Test Standard.....	18
6.5 EUT Operating Condition .....	18
6.6 Test Data.....	18
<b>7. RESTRICTED BANDS REQUIREMENT</b> .....	<b>19</b>
7.1 Test Standard and Limit.....	19
7.2 Test Setup.....	19
7.3 Test Procedure.....	20
7.4 Deviation From Test Standard.....	20
7.5 EUT Operating Condition .....	20
7.6 Test Data.....	20
<b>8. BANDWIDTH TEST</b> .....	<b>21</b>
8.1 Test Standard and Limit.....	21
8.2 Test Setup.....	21
8.3 Test Procedure.....	21

---

8.4 Deviation From Test Standard.....	21
8.5 EUT Operating Condition .....	21
8.6 Test Data.....	21
<b>9. PEAK OUTPUT POWER TEST.....</b>	<b>22</b>
9.1 Test Standard and Limit.....	22
9.2 Test Setup.....	22
9.3 Test Procedure.....	22
9.4 Deviation From Test Standard.....	22
9.5 EUT Operating Condition .....	22
9.6 Test Data.....	22
<b>10. POWER SPECTRAL DENSITY TEST .....</b>	<b>23</b>
10.1 Test Standard and Limit .....	23
10.2 Test Setup.....	23
10.3 Test Procedure.....	23
10.4 Deviation From Test Standard.....	23
10.5 EUT Operating Condition .....	23
10.6 Test Data.....	23
<b>11. ANTENNA REQUIREMENT.....</b>	<b>24</b>
11.1 Standard Requirement.....	24
11.2 Deviation From Test Standard.....	24
11.3 Antenna Connected Construction.....	24
<b>ATTACHMENT A-- CONDUCTED EMISSION TEST DATA .....</b>	<b>25</b>
<b>ATTACHMENT B-- RADIATED EMISSION TEST DATA .....</b>	<b>27</b>
<b>ATTACHMENT C-- RESTRICTED BANDS REQUIREMENT AND BAND-EDGE TEST DATA .....</b>	<b>57</b>
<b>ATTACHMENT D-- BANDWIDTH TEST DATA.....</b>	<b>96</b>
<b>ATTACHMENT E-- PEAK OUTPUT POWER TEST DATA.....</b>	<b>110</b>
<b>ATTACHMENT F-- POWER SPECTRAL DENSITY TEST DATA.....</b>	<b>114</b>



## 1. General Information about EUT

### 1.1 Client Information

<b>Applicant</b>	:	COMTREND Corporation
<b>Address</b>	:	3F-1, 10 Lane 609, Chung Hsin Road, Section 5, San Chung Dist, New Taipei City, Taiwan 24159
<b>Manufacturer</b>	:	COMTREND Corporation
<b>Address</b>	:	3F-1, 10 Lane 609, Chung Hsin Road, Section 5, San Chung Dist, New Taipei City, Taiwan 24159
<b>Factory</b>	:	Shenzhen COMNECT Technology Co., Ltd.
<b>Address</b>	:	G Zone, 3/F, Building 1, Baisha High-Tech Park, No. 3011, Shahe Road West, XiLi Street, Nanshan District, Shenzhen, China

### 1.2 General Description of EUT (Equipment Under Test)

<b>EUT Name</b>	:	AC1200 Dual Band WiFi Mesh Extender	
<b>Models No.</b>	:	WAP-5903	
<b>Model Different</b>	:	N/A.	
<b>Product Description</b>	:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
		Number of Channel:	802.11b/g/n(HT20):11 channels <b>see note(3)</b> 802.11n(HT40): 7 channels <b>see note(3)</b>
		RF Output Power:	802.11b:28.93dBm 802.11g: 27.52dBm 802.11n (HT20): 27.59dBm 802.11n (HT40): 27.47dBm
		Antenna Gain:	Please see Note(4)
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n:OFDM(BPSK,QPSK,16QAM,64QAM)
		Bit Rate of Transmitter:	Using 20MHz bandwidth, data rate up to 173.3 Mbps Using 40MHz bandwidth, data rate up to 400 Mbps
		<b>Power Rating</b>	:
<b>Software Version</b>	:	BS51-3411DCTU-C01_R03	
<b>Hardware Version</b>	:	AR-M400 V3.0	

**Note:**

(1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC

KDB 558074 D01 v05r02 and KDB 662911 D01 Multiple Transmitter Output v02r01.

(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)
<b>01</b>	<b>2412</b>	05	2432	09	2452
02	2417	<b>06</b>	<b>2437</b>	10	2457
03	2422	07	2442	<b>11</b>	<b>2462</b>
04	2427	08	2447		

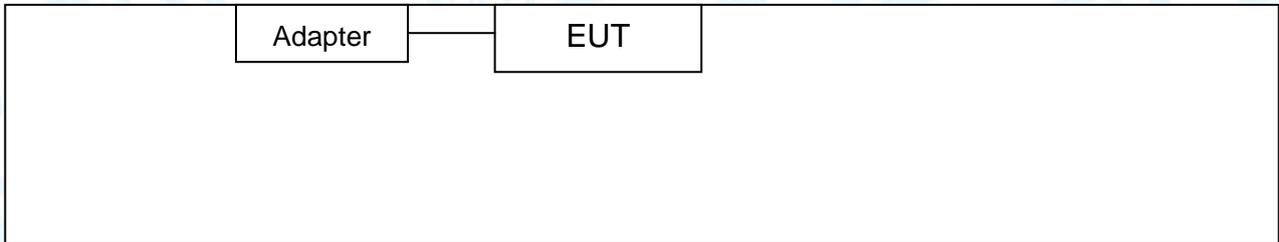
Note: CH 01~CH 11 for 802.11b/g/n(HT20)  
CH 03~CH 09 for 802.11n(HT40)

(4) Antenna information

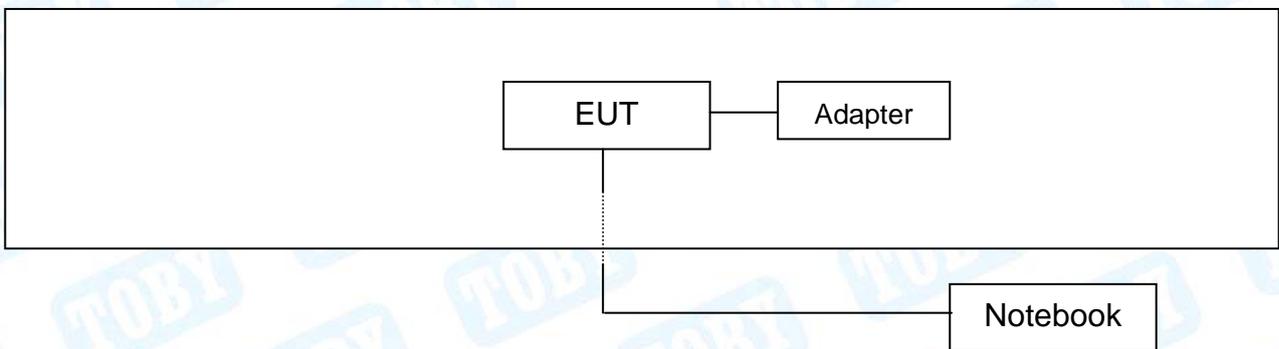
Mode		TX Antenna (s)		Remark	
802.11b		1		The worst case is ANT. A TX	
802.11g		2		ANT. A+ ANT. B	
802.11n(HT20)		2		ANT. A+ ANT. B	
802.11n(HT40)		2		ANT. A+ ANT. B	
Antenna	Brand	Model Name		Type	Antenna Gain(dBi)
ANT. A	N/A	SLEingB400150135		copper tube	5.05
ANT. B	N/A	SLEingB400150135		copper tube	5.05

Note:  
For MIMO mode:  $\text{Directional Gain} = \text{ANT. Gain} + 10 \cdot \text{LOG}(N_{\text{ANT}}) = 8.06 \text{ dBi}$   
2.4G working with 802.11g/n(HT20/HT40) has MIMO mode.

**1.3 Block Diagram Showing the Configuration of System Tested  
Conducted Test**



**Radiated Test**



**1.4 Description of Support Units**

Name	Model	S/N	Manufacturer	Used “√”
Notebook	161301-CN	15987/00203076	Xiaomi	√

## 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 and RF Conducted 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
<b>Note : (1)The adapter and antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.</b> <b>(2) For the Conducted Emission and Radiated test used the EUT-1(S/N number: M1914000765). For the RF Conduction test used the EUT-2(S/N number: M1914000766).</b>	

### 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 (30 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 Mobile device; 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.

<b>Test Software: MP TOOL</b>				
<b>Test Mode:</b> Continuously transmitting				
<b>Mode</b>	<b>Data Rate</b>	<b>Channel</b>	<b>Parameters</b>	
<b>802.11b</b>	CCK/ 1Mbps	01	27	
	CCK/ 1Mbps	06	27	
	CCK/ 1Mbps	11	29	
			<b>Parameters</b>	
			<b>ANT. A</b>	<b>ANT. B</b>
<b>802.11g</b>	OFDM/ 6Mbps	01	27	23
	OFDM/ 6Mbps	06	27	23
	OFDM/ 6Mbps	11	29	23
<b>802.11n(20)</b>	MCS 0	01	20	18
	MCS 0	06	23	19
	MCS 0	11	27	21
<b>802.11n(40)</b>	MCS 0	03	21	17
	MCS 0	06	23	18
	MCS 0	09	25	19

Note: (1) TX signal at 802.11b mode only could transmit with Ant. A.  
 (2)The report only showed the worst case.

## 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	$\pm 3.50$ dB $\pm 3.10$ dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	$\pm 4.60$ dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	$\pm 4.50$ dB
Radiated Emission	Level Accuracy: Above 1000MHz	$\pm 4.20$ dB

## 1.8 Test Facility

The testing was 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.

### **A2LA Certificate No.: 4750.01**

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351.

### **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)			
Standard Section FCC	Test Item	Judgment	Remark
15.203	Antenna Requirement	PASS	N/A
15.207	Conducted Emission	PASS	N/A
15.205	Restricted Bands	PASS	N/A
15.247(a)(2)	6dB Bandwidth	PASS	N/A
15.247(b)	Peak Output Power	PASS	N/A
15.247(e)	Power Spectral Density	PASS	N/A
15.247(d)	Band Edge	PASS	N/A
15.247(d)&15.209	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 Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE
RF Conducted Measurement	MTS-8310	MWRfTest	V2.0.0.0

## 4. Test Equipment

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 13, 2019	Jul. 12, 2020
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 13, 2019	Jul. 12, 2020
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 13, 2019	Jul. 12, 2020
LISN	Rohde & Schwarz	ENV216	101131	Jul. 13, 2019	Jul. 12, 2020
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 13, 2019	Jul. 12, 2020
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 13, 2019	Jul. 12, 2020
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Mar.07, 2020	Mar. 06, 2021
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.07, 2020	Mar. 06, 2021
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.01, 2020	Feb. 28, 2021
Horn Antenna	ETS-LINDGREN	BBHA 9170	BBHA9170582	Aug.07, 2019	Aug. 06, 2020
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 13, 2019	Jul. 12, 2020
Pre-amplifier	Sonoma	310N	185903	Mar.07, 2020	Mar. 06, 2021
Pre-amplifier	HP	8449B	3008A00849	Mar.01, 2020	Feb. 28, 2021
Pre-amplifier	SKET	LNPA_1840G-50	SK201904032	Jul. 27, 2019	Jul. 26, 2020
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.07, 2020	Mar. 06, 2021
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. 13, 2019	Jul. 12, 2020
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 13, 2019	Jul. 12, 2020
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 16, 2019	Sep. 15, 2020
Vector Signal Generator	Agilent	N5182A	MY50141294	Sep. 16, 2019	Sep. 15, 2020
Analog Signal Generator	Agilent	N5181A	MY50141953	Sep. 16, 2019	Sep. 15, 2020
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO26	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO29	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO31	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO33	Sep. 16, 2019	Sep. 15, 2020

## 5. Conducted Emission Test

### 5.1 Test Standard and Limit

#### 5.1.1 Test Standard

FCC Part 15.207

#### 5.1.2 Test Limit

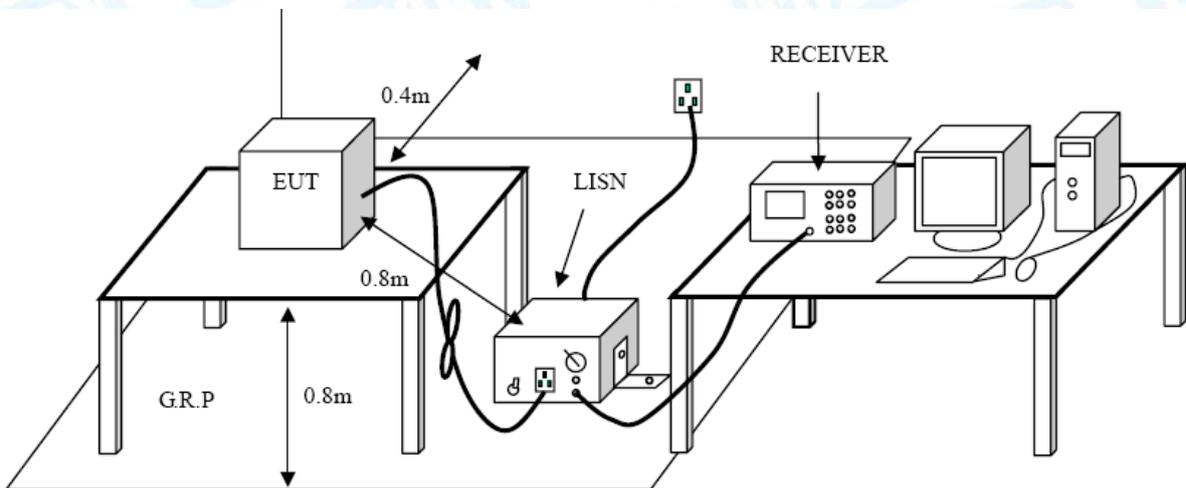
**Conducted Emission Test Limit**

Frequency	Maximum RF Line Voltage (dB $\mu$ 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.

### 5.2 Test Setup



### 5.3 Test Procedure

- (1) The EUT was placed 0.8 meters 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.
- (2) 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.
- (3) 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.
- (4) LISN at least 80 cm from nearest part of EUT chassis.
- (5) The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

### 5.4 Deviation From Test Standard

No deviation

### 5.5 EUT Operating Mode

Please refer to the description of test mode.

### 5.6 Test Data

Please refer to the Attachment A.

## 6. Radiated Emission Test

### 6.1 Test Standard and Limit

#### 6.1.1 Test Standard

FCC Part 15.209

#### 6.1.2 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

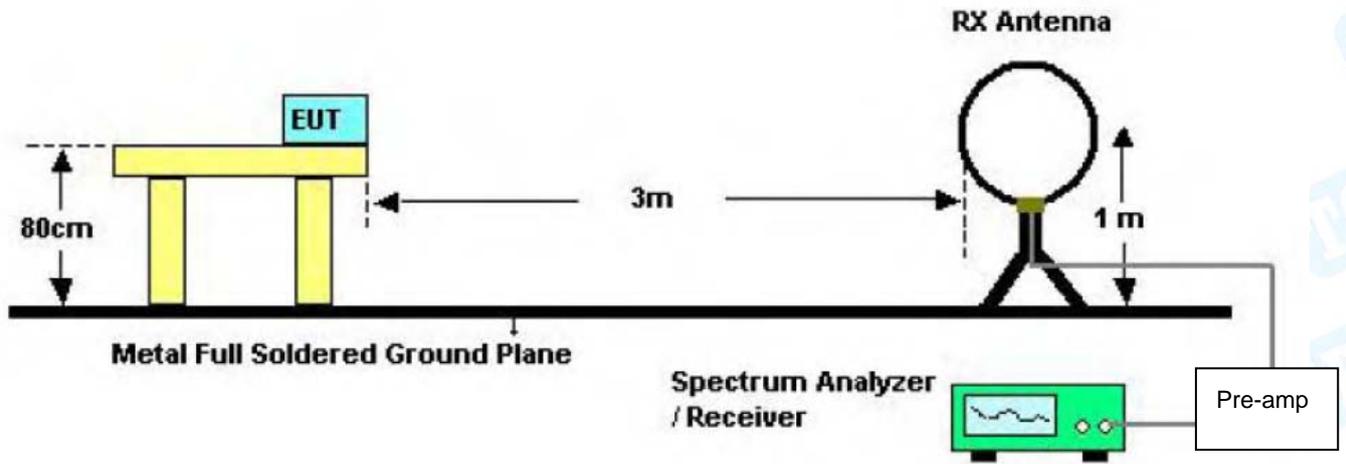
#### Radiated Emission Limit (Above 1000MHz)

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

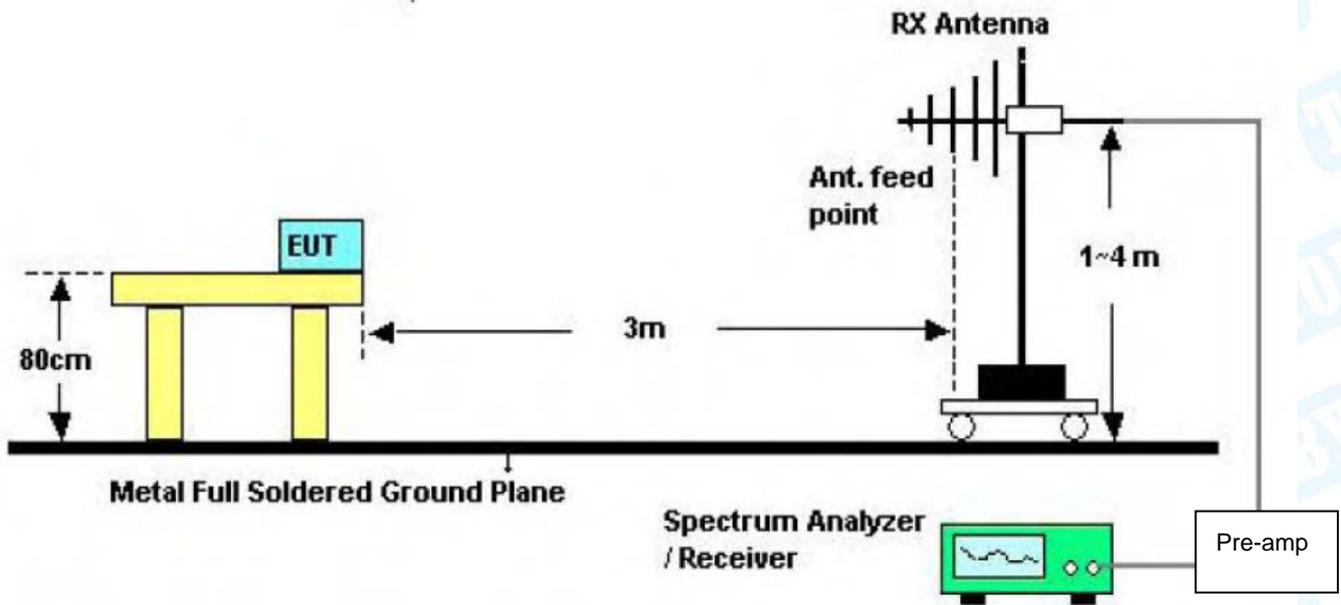
**Note:**

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

6.2 Test Setup

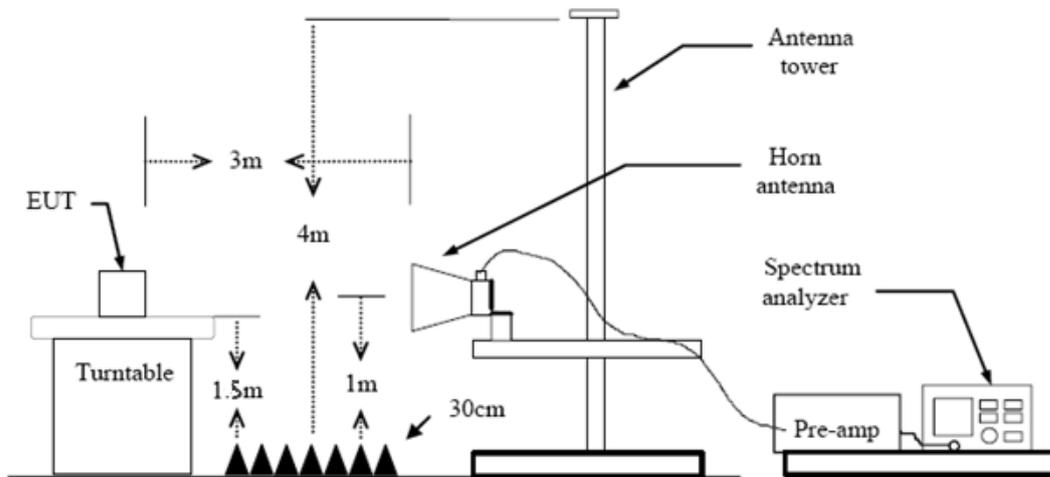


Below 30MHz Test Setup



Below 1000MHz Test Setup





Above 1GHz Test Setup

### 6.3 Test Procedure

- (1) 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.
- (2) Measurements at frequency Below 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.
- (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 Deviation From Test Standard

No deviation

#### 6.5 EUT Operating Condition

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

#### 6.6 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.

Please refer to the Attachment B.

## 7. Restricted Bands Requirement

### 7.1 Test Standard and Limit

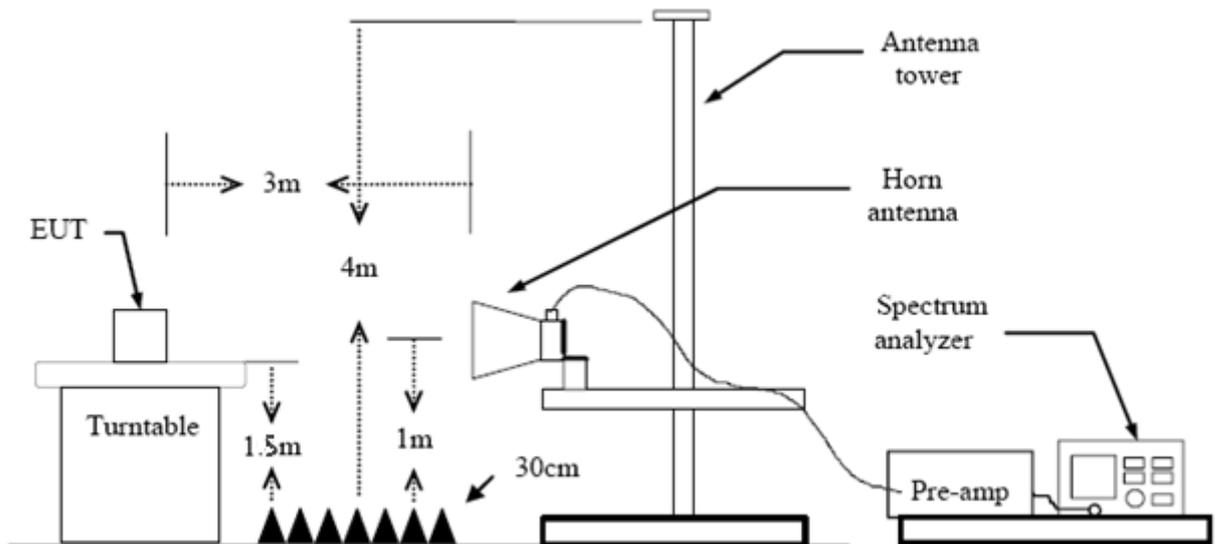
#### 7.1.1 Test Standard

FCC Part 15.247(d)  
 FCC Part 15.209  
 FCC Part 15.205

#### 7.1.2 Test Limit

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

### 7.2 Test Setup



### 7.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency Below 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.

### 7.4 Deviation From Test Standard

No deviation

### 7.5 EUT Operating Condition

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

### 7.6 Test Data

Please refer to the Attachment C.

## 8. Bandwidth Test

### 8.1 Test Standard and Limit

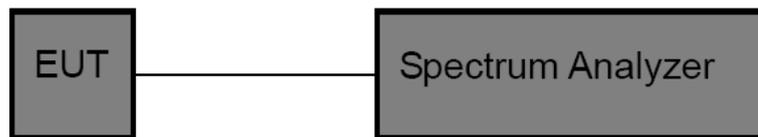
#### 8.1.1 Test Standard

FCC Part 15.247 (a)(2)

#### 8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)		
Test Item	Limit	Frequency Range(MHz)
Bandwidth	$\geq 500$ KHz (6dB bandwidth)	2400~2483.5

### 8.2 Test Setup



### 8.3 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.

### 8.4 Deviation From Test Standard

No deviation

### 8.5 EUT Operating Condition

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

### 8.6 Test Data

Please refer to the Attachment D.

## 9. Peak Output Power Test

### 9.1 Test Standard and Limit

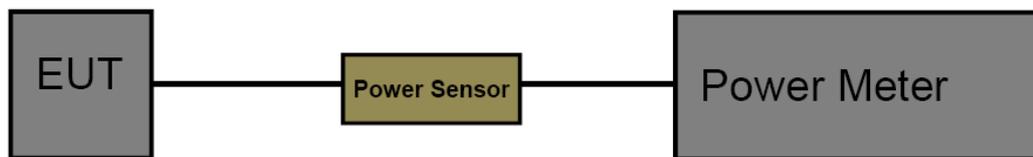
#### 9.1.1 Test Standard

FCC Part 15.247 (b)

#### 9.1.2 Test Limit

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

### 9.2 Test Setup



### 9.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 v05r02.

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.

### 9.4 Deviation From Test Standard

No deviation

### 9.5 EUT Operating Condition

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

### 9.6 Test Data

Please refer to the Attachment E.

## 10. Power Spectral Density Test

### 10.1 Test Standard and Limit

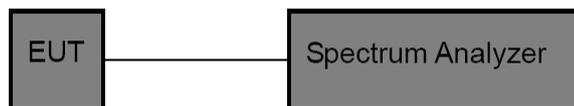
#### 10.1.1 Test Standard

FCC Part 15.247 (e)

#### 10.1.2 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

### 10.2 Test Setup



### 10.3 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 D01 v05r02.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser centre frequency to DTS channel centre 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.

### 10.4 Deviation From Test Standard

No deviation

### 10.5 EUT Operating Condition

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

### 10.6 Test Data

Please refer to the Attachment F.

## 11. Antenna Requirement

### 11.1 Standard Requirement

#### 11.1.1 Standard

FCC Part 15.203

#### 11.1.2 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.

### 11.2 Deviation From Test Standard

No deviation

### 11.3 Antenna Connected Construction

The gains of the antenna used for transmitting is 5.05 dBi, 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 copper tube Antenna. It complies with the standard requirement.

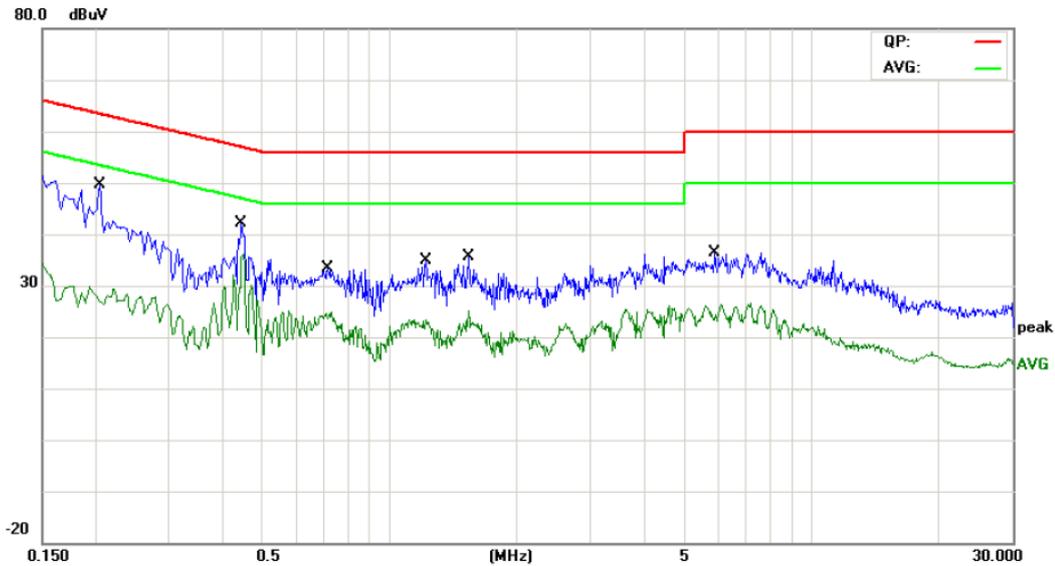
Antenna Type
<input type="checkbox"/> Permanent attached antenna
<input checked="" type="checkbox"/> Unique connector antenna
<input type="checkbox"/> Professional installation antenna



## Attachment A-- Conducted Emission Test Data

Remark: All channels have been tested and Shows only the worst channels.

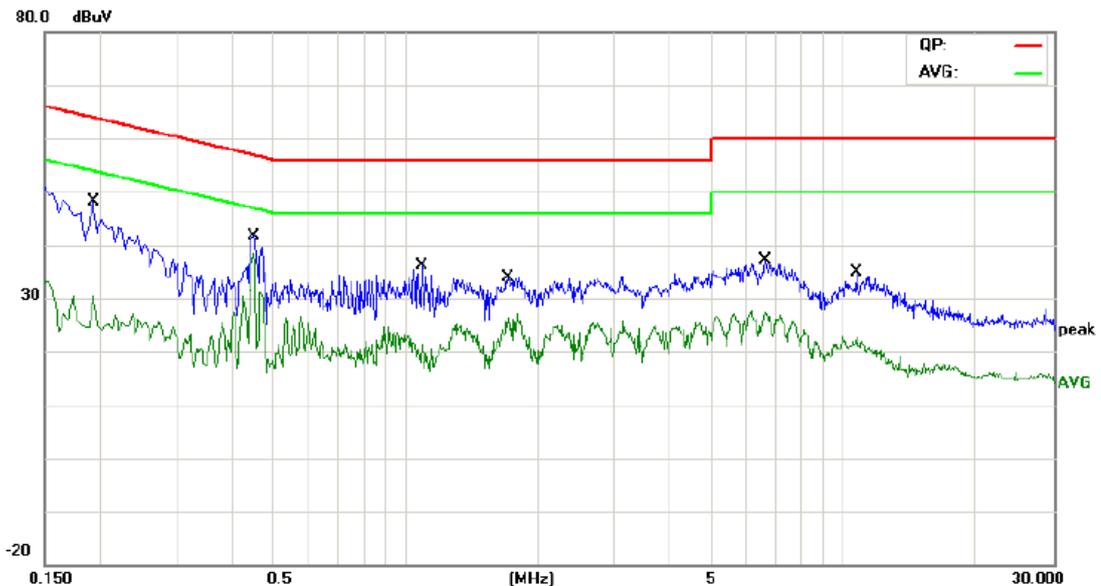
<b>Temperature:</b>	25°C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Terminal:</b>	Line		
<b>Test Mode:</b>	Mode 1		
<b>Remark:</b>	Only worst case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2060	28.40	9.78	38.18	63.36	-25.18	QP
2		0.2060	14.89	9.78	24.67	53.36	-28.69	AVG
3		0.4460	27.93	9.89	37.82	56.95	-19.13	QP
4	*	0.4460	25.26	9.89	35.15	46.95	-11.80	AVG
5		0.7140	19.16	9.79	28.95	56.00	-27.05	QP
6		0.7140	13.30	9.79	23.09	46.00	-22.91	AVG
7		1.2180	18.53	9.67	28.20	56.00	-27.80	QP
8		1.2180	12.48	9.67	22.15	46.00	-23.85	AVG
9		1.5380	18.04	9.85	27.89	56.00	-28.11	QP
10		1.5380	11.84	9.85	21.69	46.00	-24.31	AVG
11		5.9220	18.27	9.84	28.11	60.00	-31.89	QP
12		5.9220	11.43	9.84	21.27	50.00	-28.73	AVG

Emission Level= Read Level+ Correct Factor

<b>Temperature:</b>	25°C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Terminal:</b>	Neutral		
<b>Test Mode:</b>	Mode 1		
<b>Remark:</b>	Only worst case is reported		



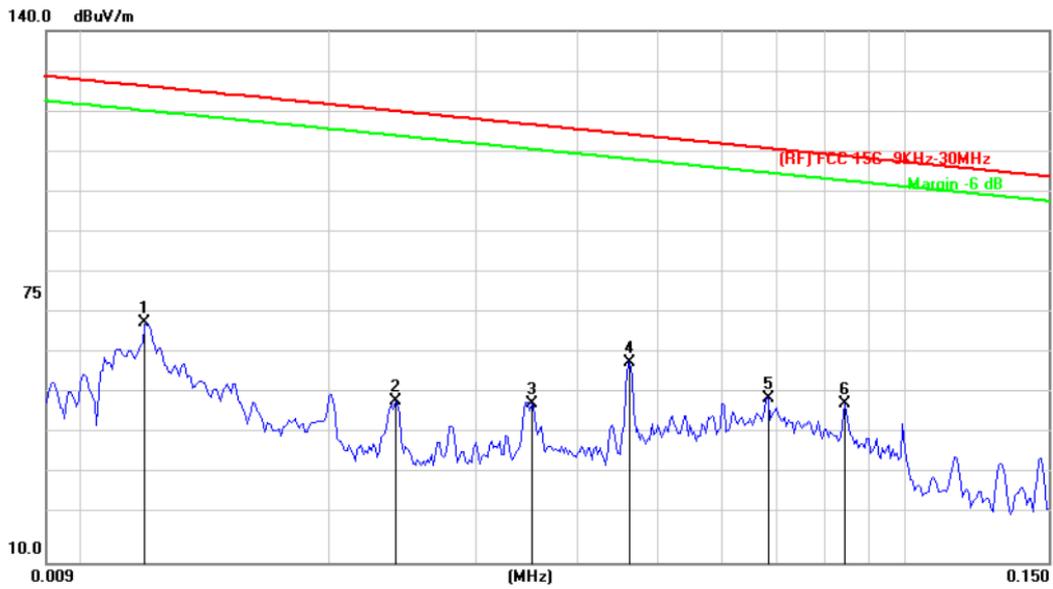
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1940	33.06	9.57	42.63	63.86	-21.23	QP
2		0.1940	16.71	9.57	26.28	53.86	-27.58	AVG
3		0.4500	30.42	9.77	40.19	56.87	-16.68	QP
4	*	0.4500	27.18	9.77	36.95	46.87	-9.92	AVG
5		1.0900	16.78	9.62	26.40	56.00	-29.60	QP
6		1.0900	8.77	9.62	18.39	46.00	-27.61	AVG
7		1.7140	19.59	9.84	29.43	56.00	-26.57	QP
8		1.7140	14.51	9.84	24.35	46.00	-21.65	AVG
9		6.6060	22.37	9.85	32.22	60.00	-27.78	QP
10		6.6060	16.60	9.85	26.45	50.00	-23.55	AVG
11		10.6620	15.73	9.86	25.59	60.00	-34.41	QP
12		10.6620	10.21	9.86	20.07	50.00	-29.93	AVG

Emission Level= Read Level+ Correct Factor

## Attachment B-- Radiated Emission Test Data

9KHz~150KHz

Temperature:	24.3°C	Relative Humidity:	42%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Antenna 0°		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worst case is reported.		

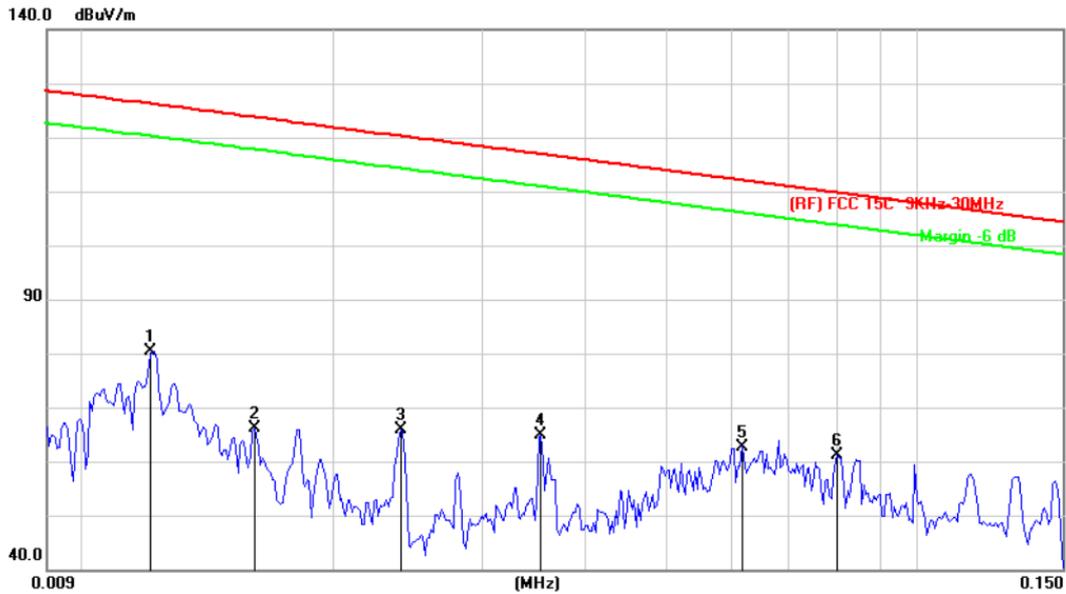


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		0.0119	79.09	-10.46	68.63	126.46	-57.83	peak
2		0.0240	60.23	-10.79	49.44	120.34	-70.90	peak
3		0.0351	59.76	-10.94	48.82	117.02	-68.20	peak
4	*	0.0463	69.80	-10.92	58.88	114.60	-55.72	peak
5		0.0682	60.83	-10.60	50.23	111.22	-60.99	peak
6		0.0844	59.43	-10.68	48.75	109.36	-60.61	peak

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

Emission Level= Read Level+ Correct Factor

<b>Temperature:</b>	24.3°C	<b>Relative Humidity:</b>	42%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Antenna 90°		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	Only worst case is reported.		



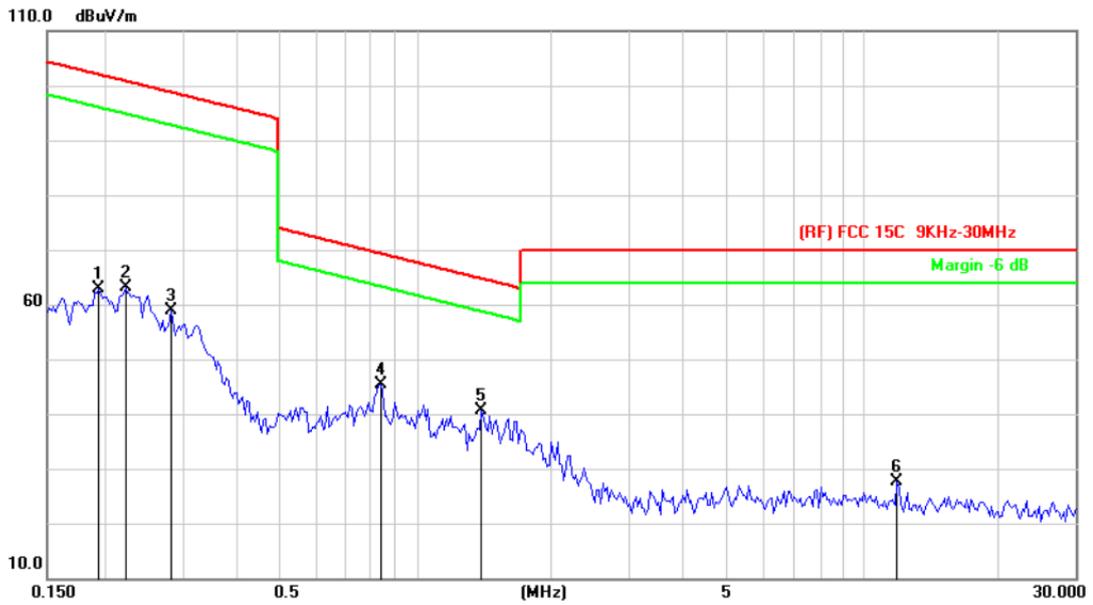
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	0.0120	90.92	-10.46	80.46	126.30	-45.84	peak
2		0.0160	76.60	-10.57	66.03	123.79	-57.76	peak
3		0.0240	76.75	-10.79	65.96	120.26	-54.30	peak
4		0.0353	75.73	-10.94	64.79	116.90	-52.11	peak
5		0.0617	73.47	-10.72	62.75	112.04	-49.29	peak
6		0.0803	71.84	-10.65	61.19	109.75	-48.56	peak

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

**Emission Level= Read Level+ Correct Factor**

### 0.15MHz~30MHz

<b>Temperature:</b>	24.3°C	<b>Relative Humidity:</b>	42%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Antenna 0°		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	Only worst case is reported.		

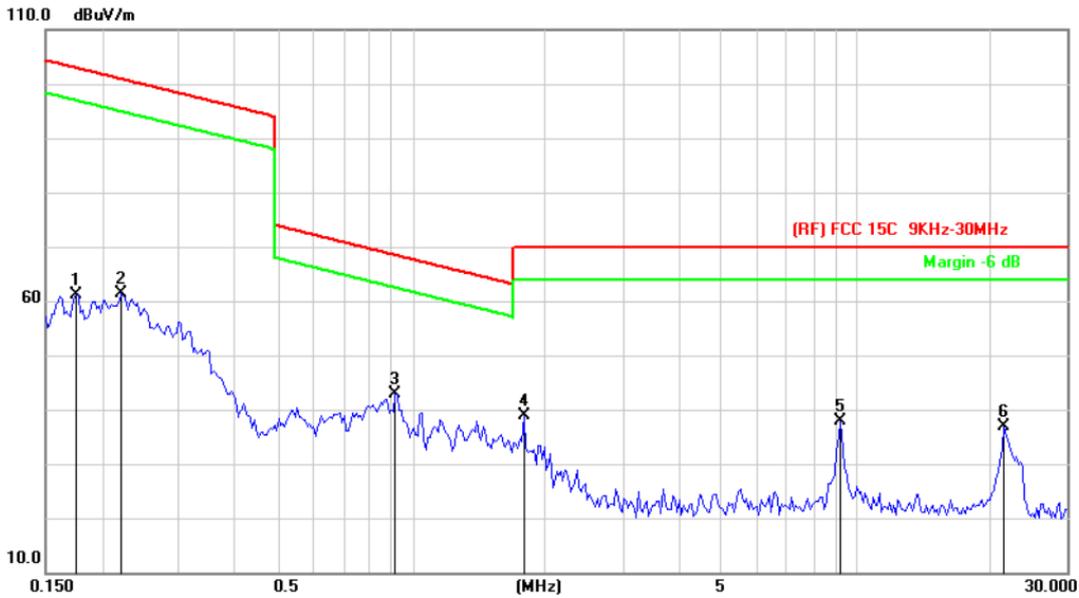


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		0.1955	71.36	-8.54	62.82	102.02	-39.20	peak
2		0.2244	72.05	-8.94	63.11	100.82	-37.71	peak
3		0.2833	68.44	-9.49	58.95	98.78	-39.83	peak
4	*	0.8349	56.48	-11.19	45.29	69.30	-24.01	peak
5		1.4032	51.83	-11.16	40.67	64.72	-24.05	peak
6		11.9328	39.15	-11.53	27.62	70.00	-42.38	peak

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

**Emission Level= Read Level+ Correct Factor**

<b>Temperature:</b>	24.3°C	<b>Relative Humidity:</b>	42%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Antenna 90°		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	Only worst case is reported.		



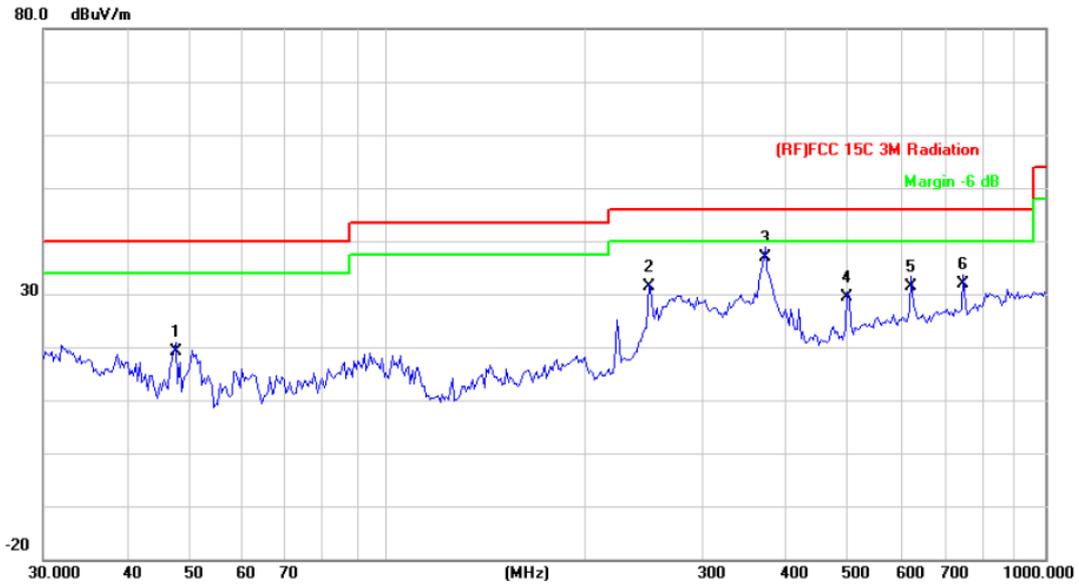
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		0.1758	68.82	-7.77	61.05	102.93	-41.88	peak
2		0.2220	70.41	-8.93	61.48	100.89	-39.41	peak
3	*	0.9183	53.96	-11.20	42.76	68.46	-25.70	peak
4		1.7903	49.97	-11.11	38.86	70.00	-31.14	peak
5		9.2530	48.74	-10.95	37.79	70.00	-32.21	peak
6		21.6001	48.80	-12.00	36.80	70.00	-33.20	peak

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

**Emission Level= Read Level+ Correct Factor**

### 30MHz~1GHz

Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worst case is reported.		

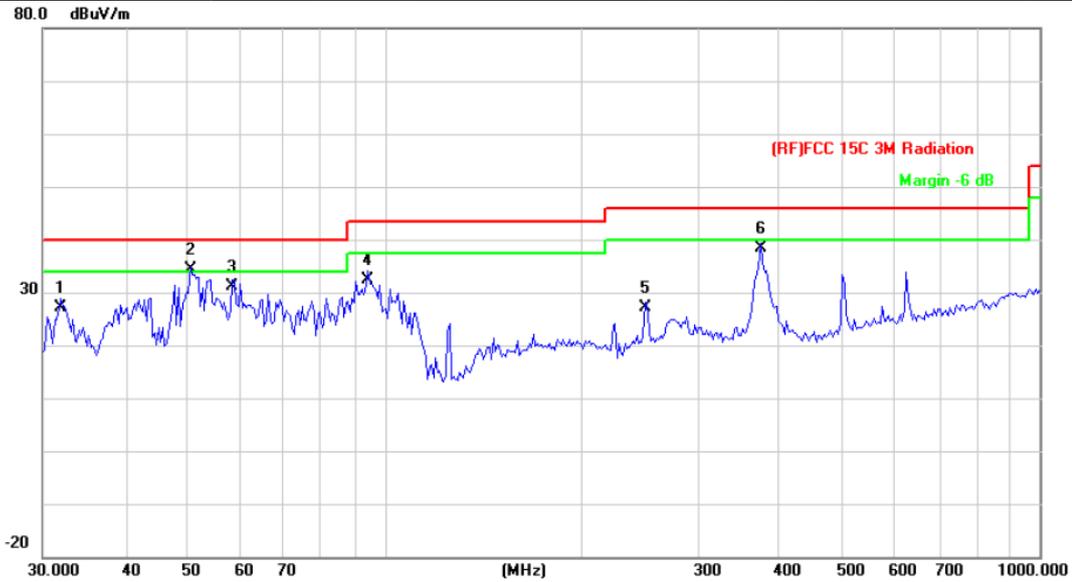


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		47.6586	41.76	-22.56	19.20	40.00	-20.80	QP
2		249.4250	48.58	-17.08	31.50	46.00	-14.50	QP
3	*	374.6225	50.06	-13.26	36.80	46.00	-9.20	QP
4		499.4247	39.88	-10.38	29.50	46.00	-16.50	QP
5		625.0780	39.39	-7.99	31.40	46.00	-14.60	QP
6		750.1083	38.42	-6.42	32.00	46.00	-14.00	QP

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

**Emission Level= Read Level+ Correct Factor**

<b>Temperature:</b>	25°C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	Only worst 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		31.9546	41.68	-14.48	27.20	40.00	-12.80	QP
2	*	50.4089	57.90	-23.40	34.50	40.00	-5.50	QP
3		58.4074	55.47	-24.27	31.20	40.00	-8.80	QP
4		94.0979	54.46	-22.06	32.40	43.50	-11.10	QP
5		249.4250	44.18	-17.08	27.10	46.00	-18.90	QP
6		374.6225	51.56	-13.26	38.30	46.00	-7.70	QP

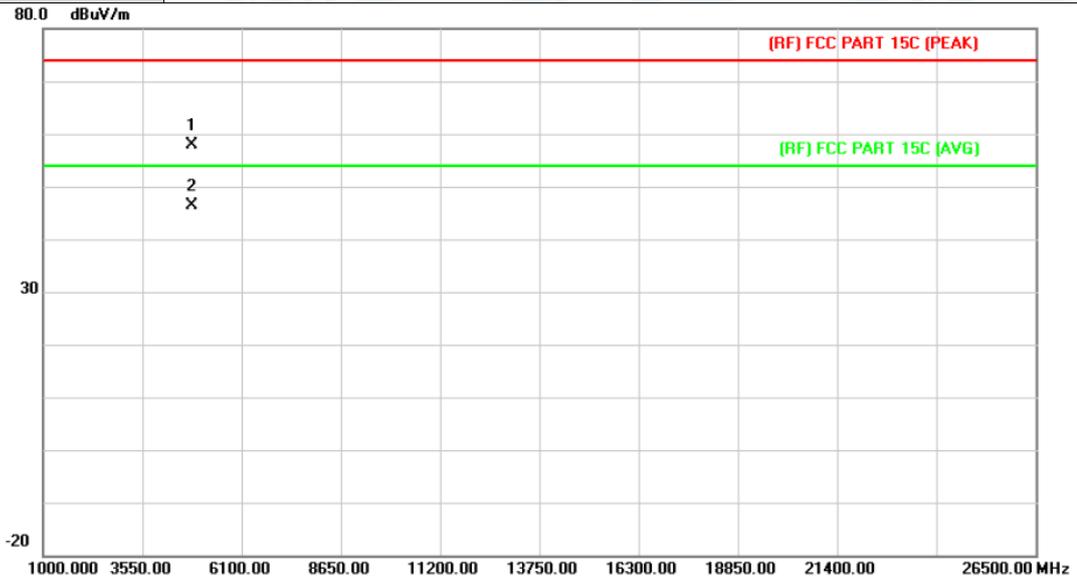
\*:Maximum data    x:Over limit    !:over margin

**Emission Level= Read Level+ Correct Factor**



**Above 1GHz**

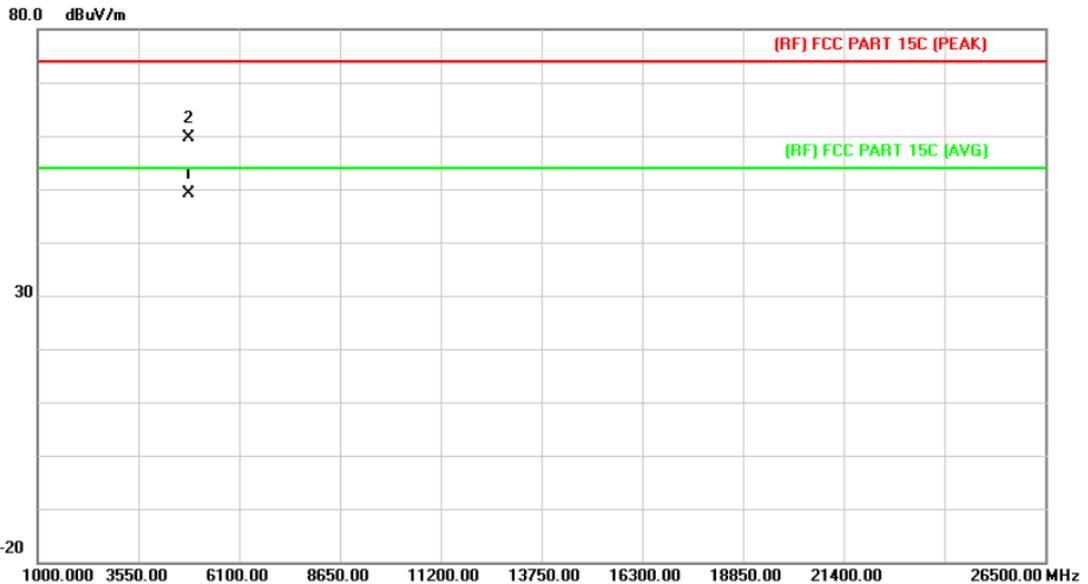
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2412MHz ANT. A		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit. Only show the worst case ANT. A.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4823.922	44.50	13.49	57.99	74.00	-16.01	peak
2	*	4823.922	33.00	13.49	46.49	54.00	-7.51	AVG

**Emission Level= Read Level+ Correct Factor**

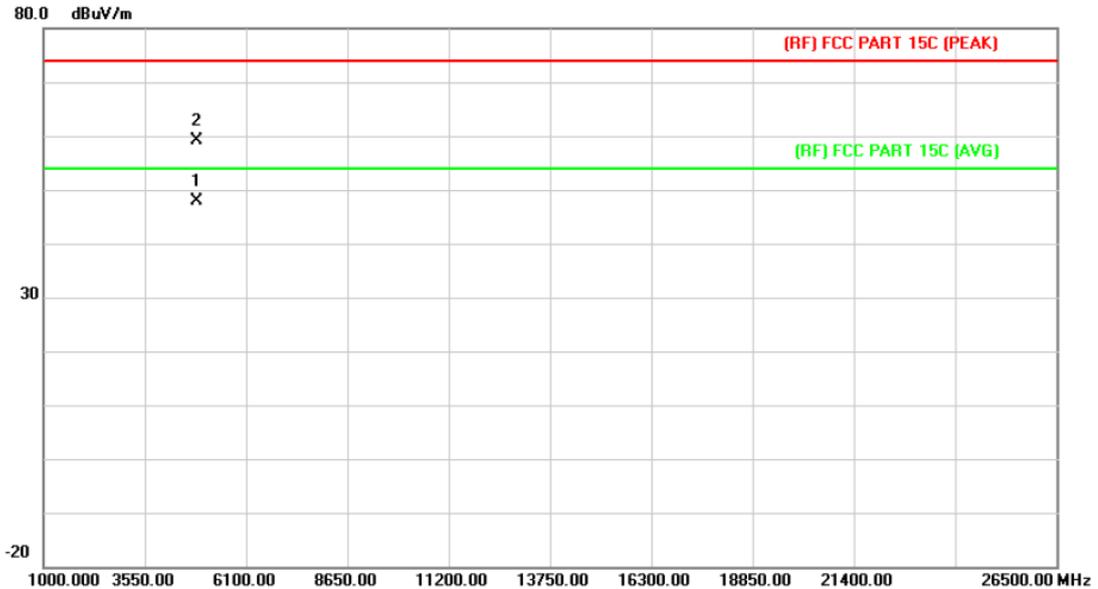
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2412MHz ANT. A		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit. Only show the worst case ANT. A.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4823.922	35.57	13.49	49.06	54.00	-4.94	AVG
2		4824.012	46.19	13.49	59.68	74.00	-14.32	peak

Emission Level= Read Level+ Correct Factor

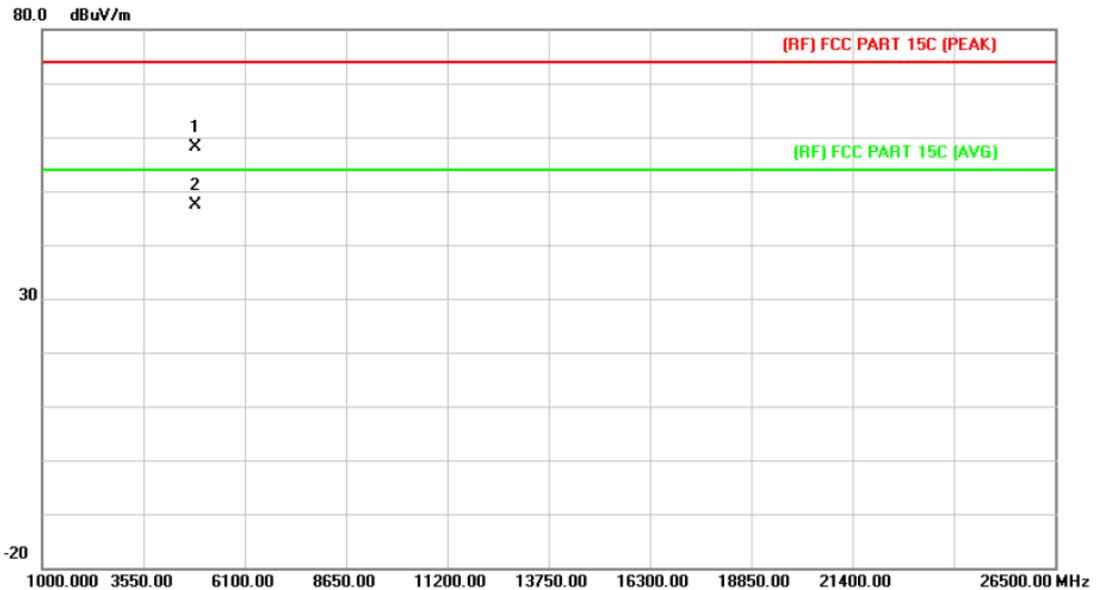
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2437MHz ANT. A		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit. Only show the worst case ANT. A.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.922	34.28	13.54	47.82	54.00	-6.18	AVG
2		4873.958	45.50	13.54	59.04	74.00	-14.96	peak

Emission Level= Read Level+ Correct Factor

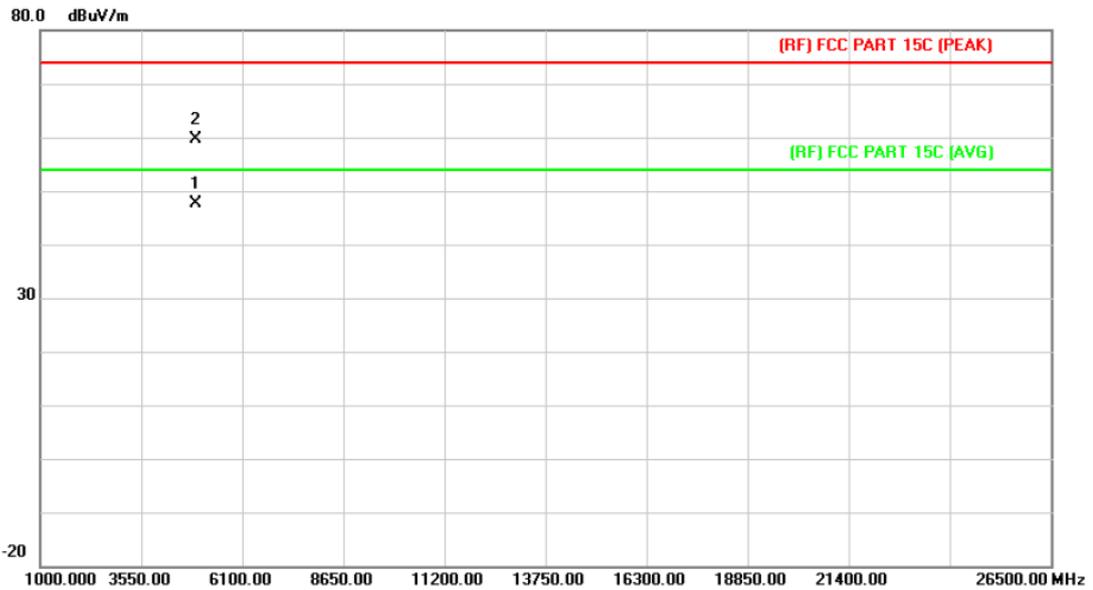
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2437MHz ANT. A		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit. Only show the worst case ANT. A.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4873.430	44.67	13.54	58.21	74.00	-15.79	peak
2	*	4873.922	33.88	13.54	47.42	54.00	-6.58	AVG

Emission Level= Read Level+ Correct Factor

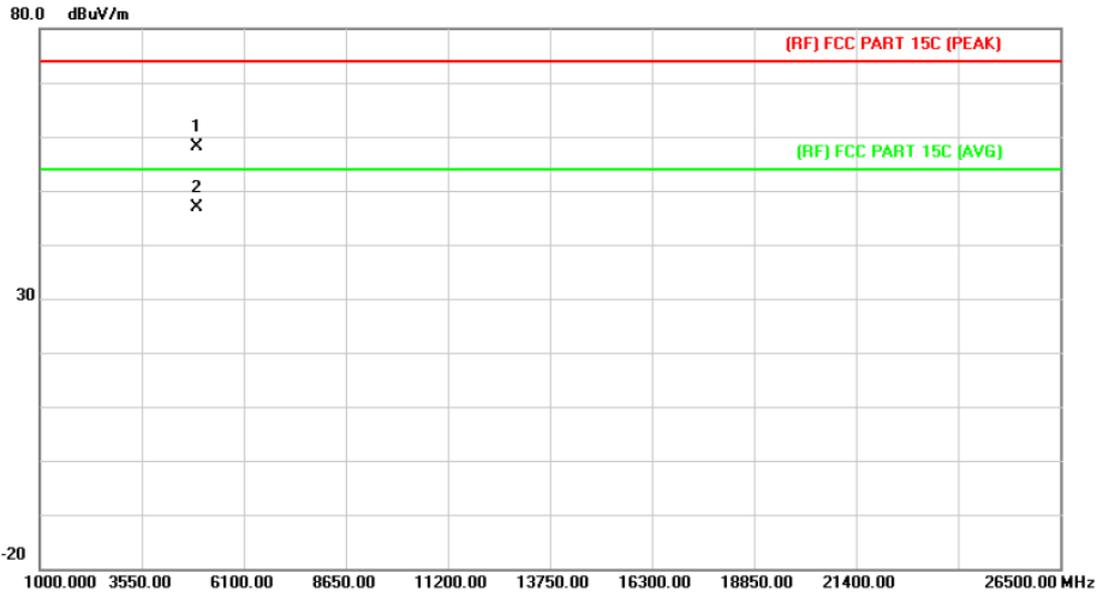
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2462MHz ANT. A		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit. Only show the worst case ANT. A.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4923.922	34.06	13.58	47.64	54.00	-6.36	AVG
2		4924.066	45.99	13.58	59.57	74.00	-14.43	peak

Emission Level= Read Level+ Correct Factor

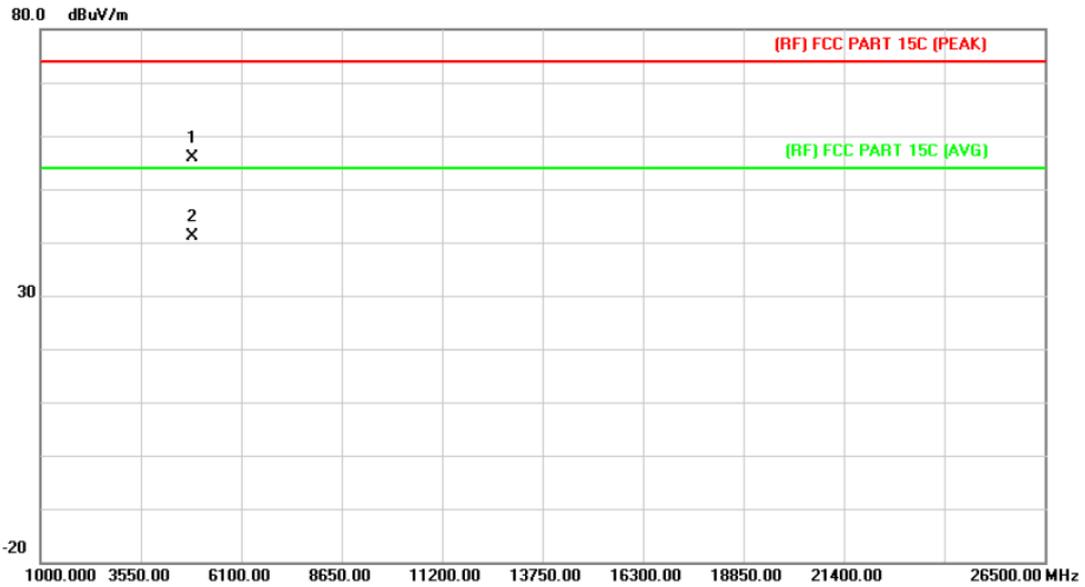
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2462MHz ANT. A		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit. Only show the worst case ANT. A.		



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	4923.772	44.58	13.58	58.16	74.00	-15.84	peak
2	* 4923.922	33.22	13.58	46.80	54.00	-7.20	AVG

Emission Level= Read Level+ Correct Factor

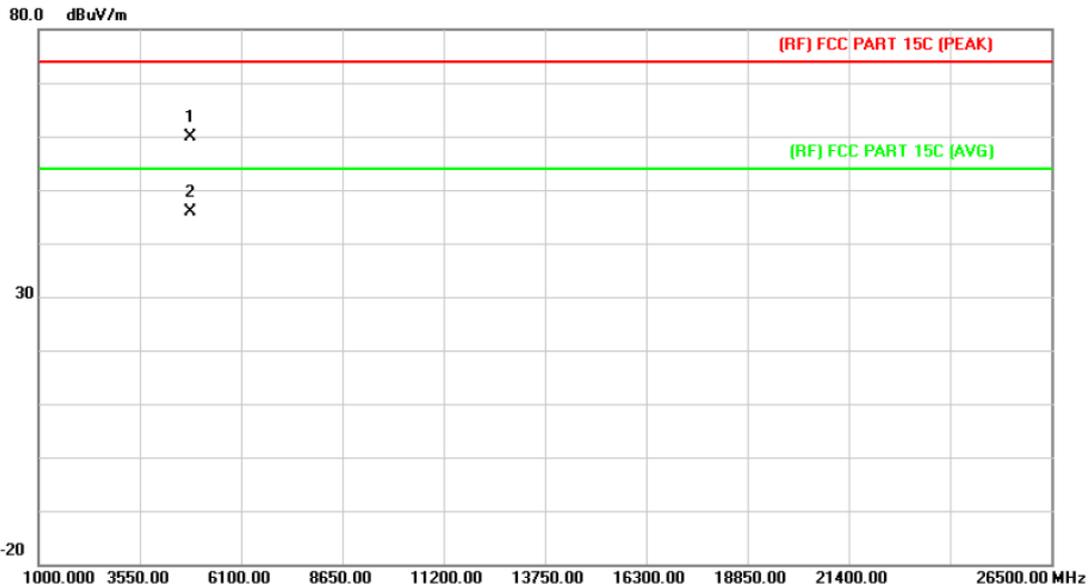
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2412MHz ANT. A+ANT. B		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4873.790	42.23	13.54	55.77	74.00	-18.23	peak
2	*	4873.922	27.63	13.54	41.17	54.00	-12.83	AVG

Emission Level= Read Level+ Correct Factor

<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2412MHz ANT. A+ANT. B		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit.		

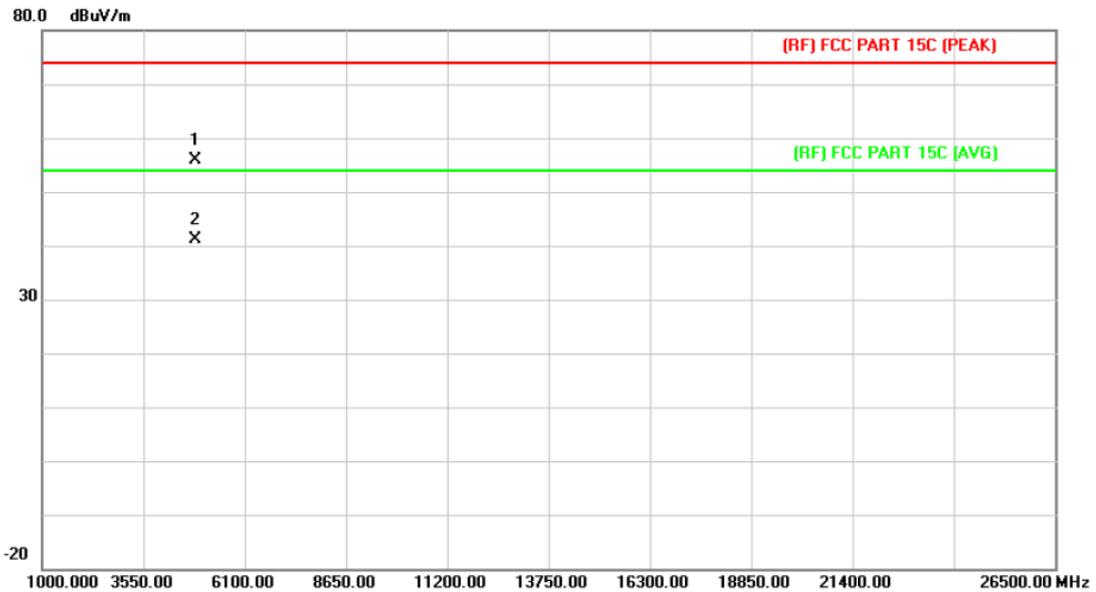


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.412	46.37	13.49	59.86	74.00	-14.14	peak
2	*	4823.538	32.45	13.49	45.94	54.00	-8.06	AVG

Emission Level= Read Level+ Correct Factor



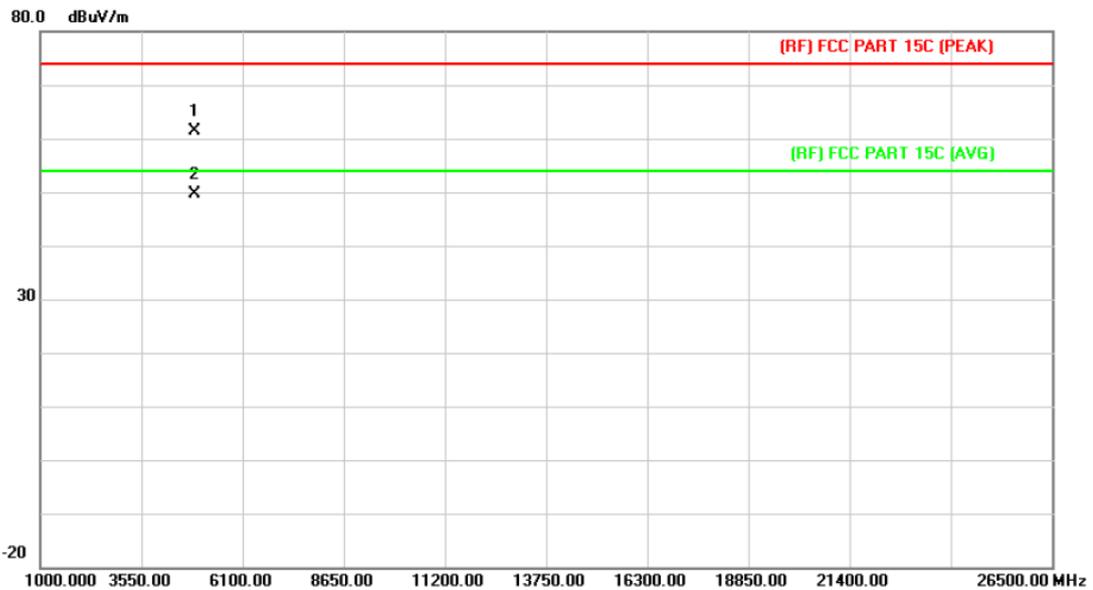
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2437MHz ANT. A. +ANT. B.		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4873.790	42.23	13.54	55.77	74.00	-18.23	peak
2	*	4873.922	27.63	13.54	41.17	54.00	-12.83	AVG

Emission Level= Read Level+ Correct Factor

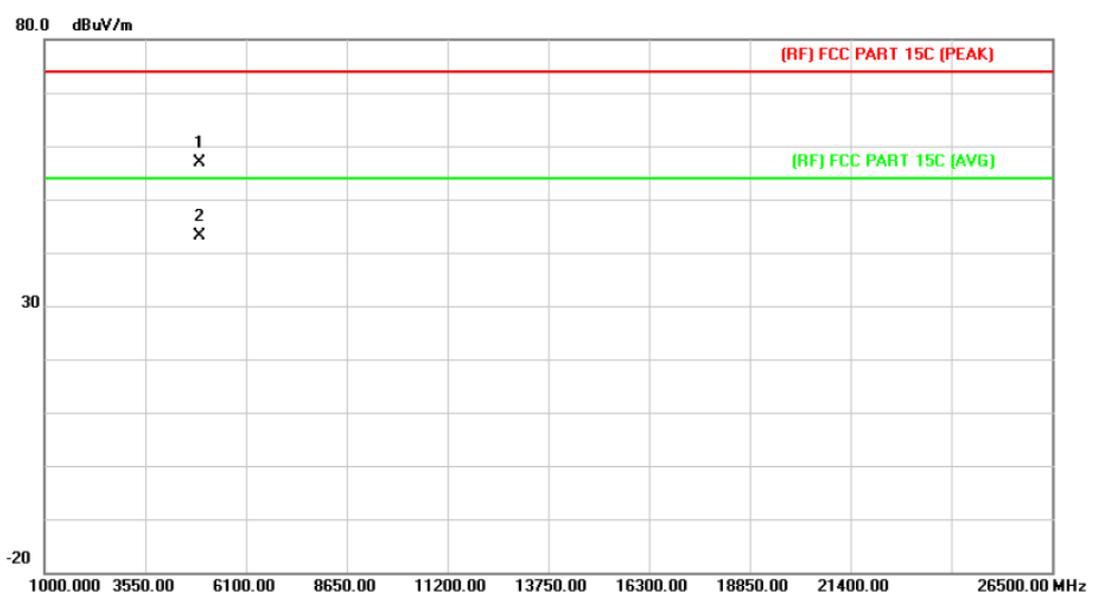
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2437MHz ANT. A. +ANT. B.		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit. Only show the worst case ANT. A.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4903.748	47.87	13.56	61.43	74.00	-12.57	peak
2	*	4903.784	36.07	13.56	49.63	54.00	-4.37	AVG

Emission Level= Read Level+ Correct Factor

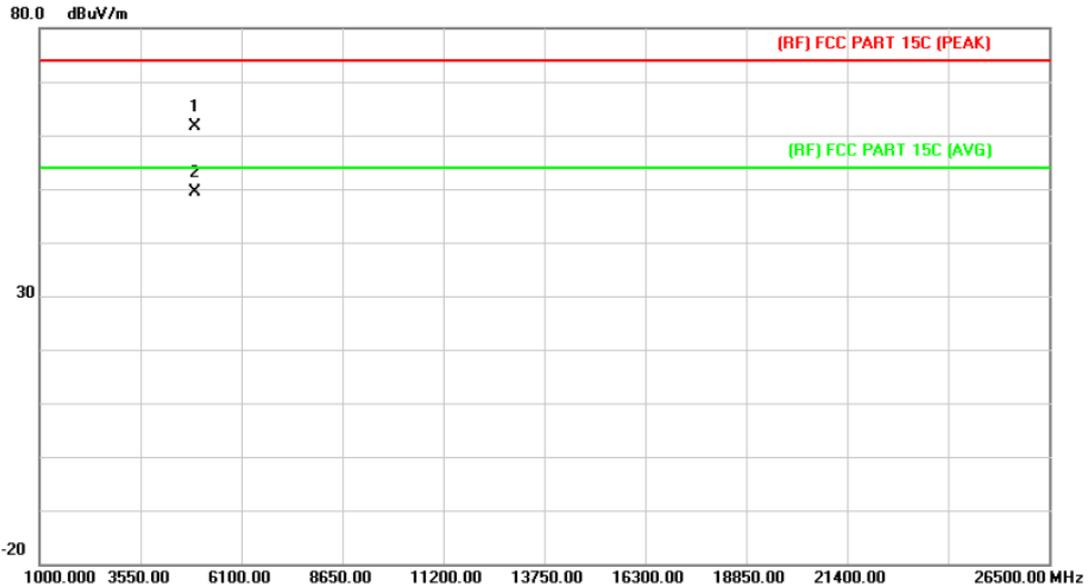
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2462MHz ANT. A. +ANT. B.		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4923.916	43.34	13.58	56.92	74.00	-17.08	peak
2	*	4923.922	29.46	13.58	43.04	54.00	-10.96	AVG

**Emission Level= Read Level+ Correct Factor**

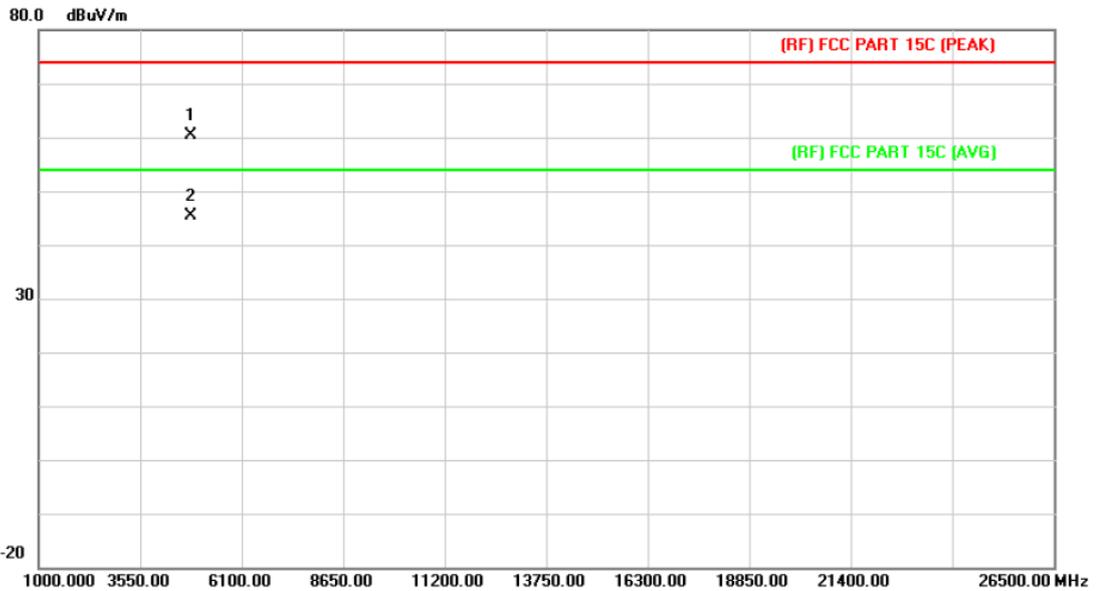
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2462MHz ANT. A. +ANT. B		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit.		



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	4923.424	48.07	13.58	61.65	74.00	-12.35	peak
2 *	4923.904	35.90	13.58	49.48	54.00	-4.52	AVG

Emission Level= Read Level+ Correct Factor

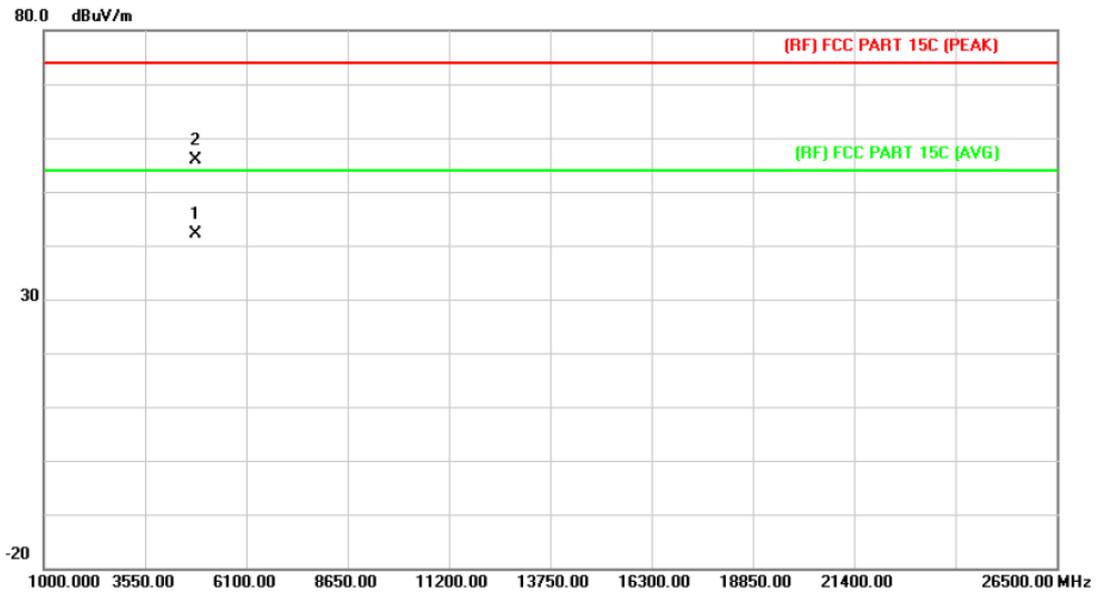
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX n(HT20) Mode 2412MHz ANT. A+ANT. B		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4823.334	46.77	13.49	60.26	74.00	-13.74	peak
2	*	4823.610	31.85	13.49	45.34	54.00	-8.66	AVG

Emission Level= Read Level+ Correct Factor

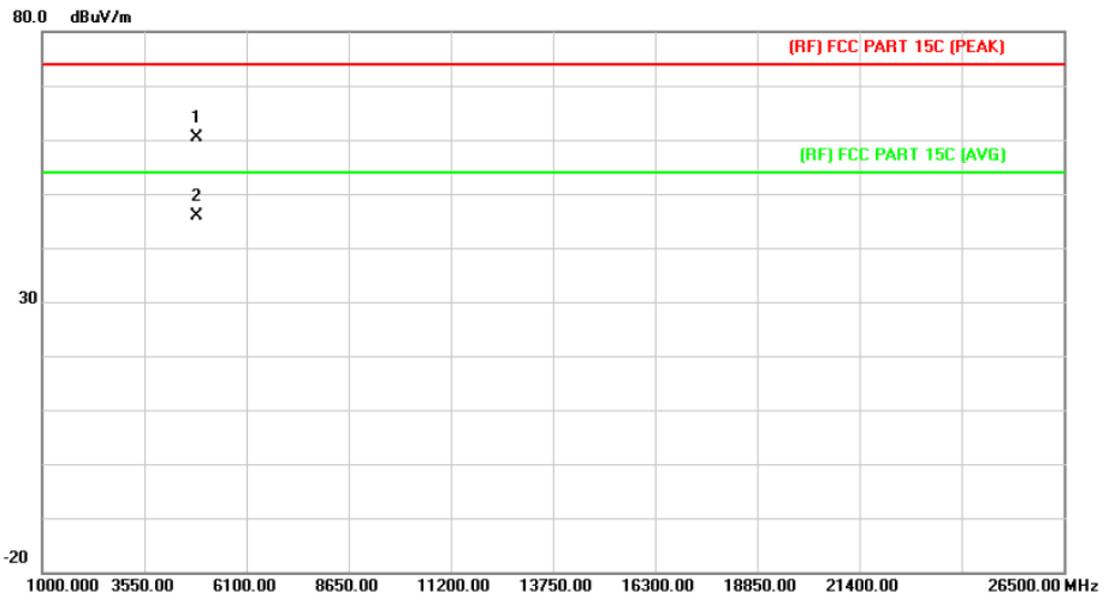
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX n(HT20) Mode 2412MHz ANT. A+ANT. B		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.922	28.54	13.49	42.03	54.00	-11.97	AVG
2		4824.150	42.37	13.49	55.86	74.00	-18.14	peak

Emission Level= Read Level+ Correct Factor

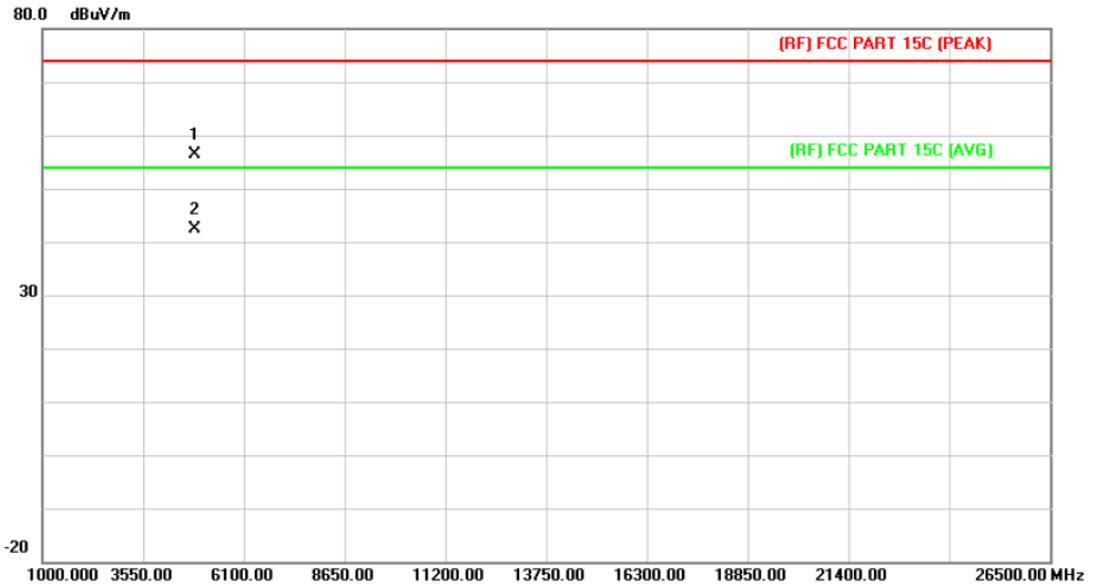
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX n(HT20) Mode 2437MHz ANT. A+ANT. B		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4873.586	46.74	13.54	60.28	74.00	-13.72	peak
2	*	4873.604	32.30	13.54	45.84	54.00	-8.16	AVG

Emission Level= Read Level+ Correct Factor

<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX n(HT20) Mode 2437MHz ANT. A+ANT. B		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit.		

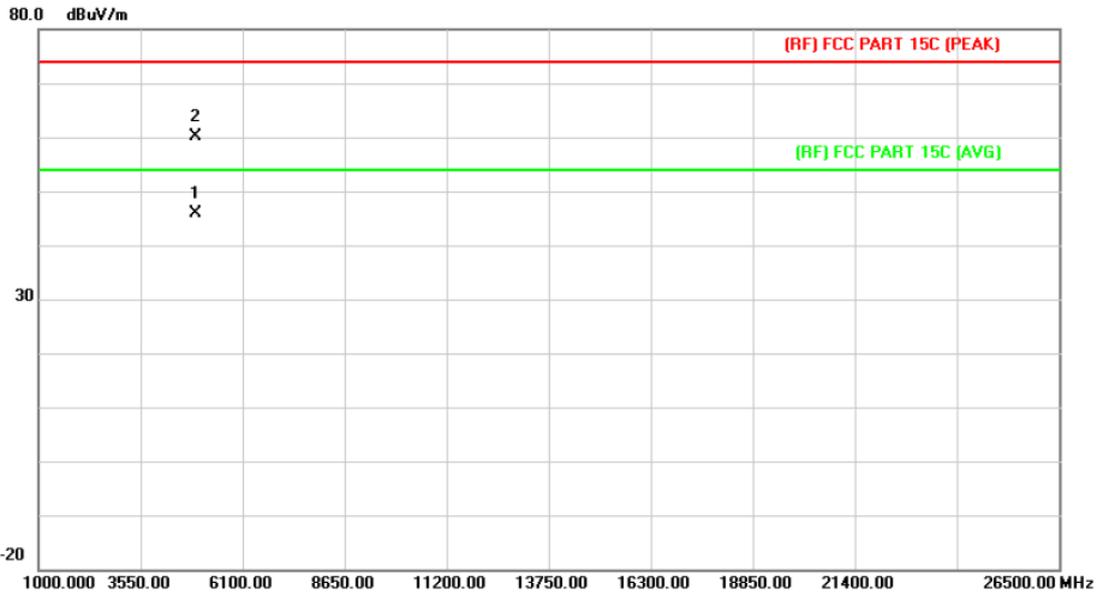


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4873.910	42.96	13.54	56.50	74.00	-17.50	peak
2	*	4873.922	28.91	13.54	42.45	54.00	-11.55	AVG

Emission Level= Read Level+ Correct Factor



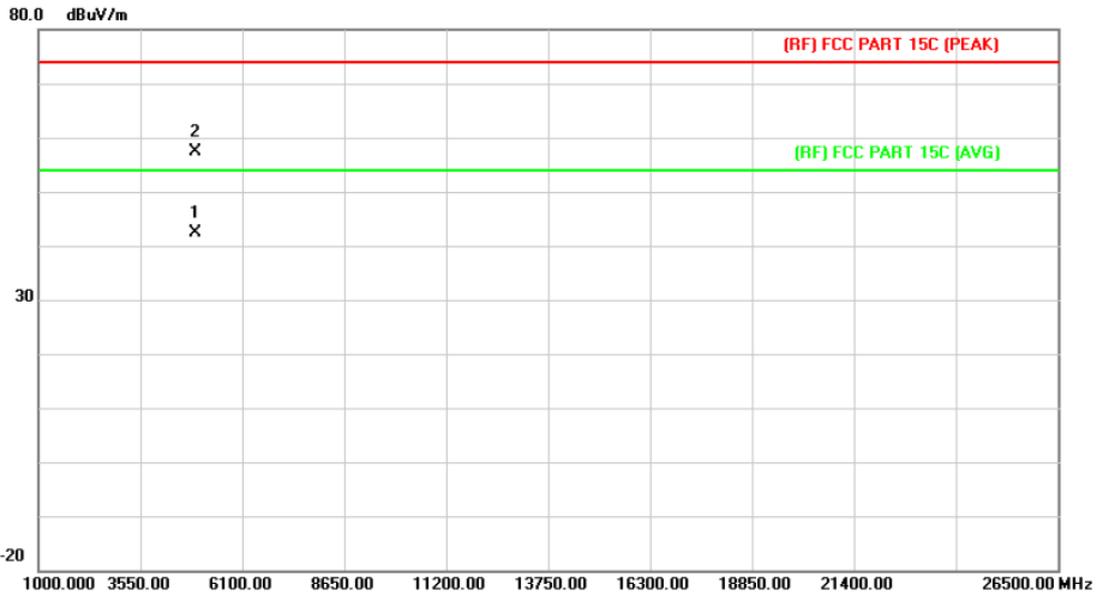
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX n(HT20) Mode 2462MHz ANT. A+ANT. B		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4923.922	32.19	13.58	45.77	54.00	-8.23	AVG
2		4925.368	46.43	13.58	60.01	74.00	-13.99	peak

Emission Level= Read Level+ Correct Factor

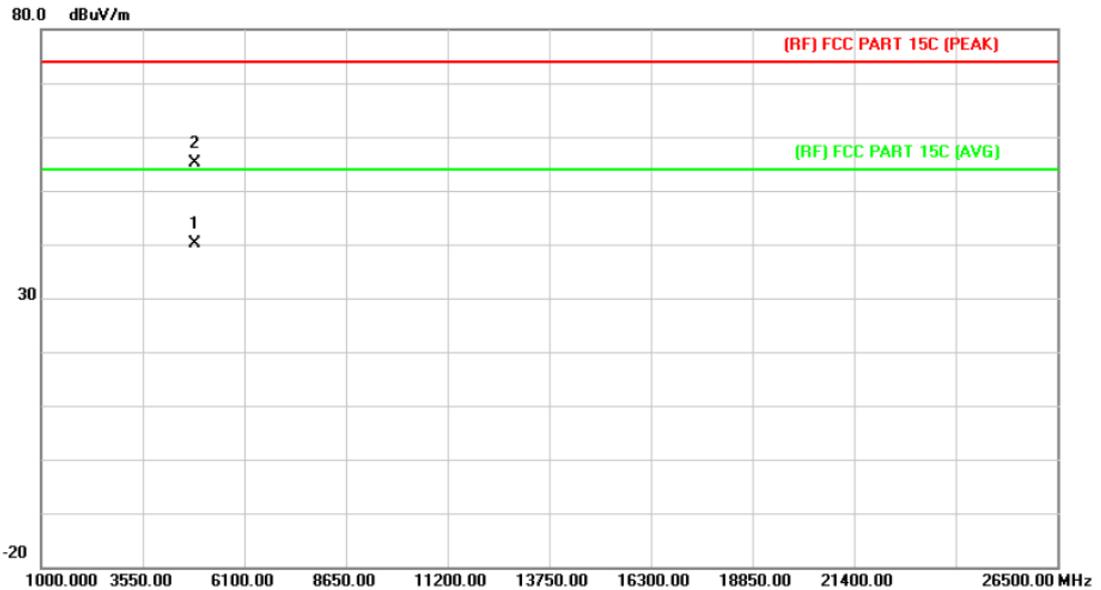
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX n(HT20) Mode 2462MHz ANT. A+ANT. B		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.922	28.73	13.58	42.31	54.00	-11.69	AVG
2		4924.660	43.75	13.58	57.33	74.00	-16.67	peak

Emission Level= Read Level+ Correct Factor

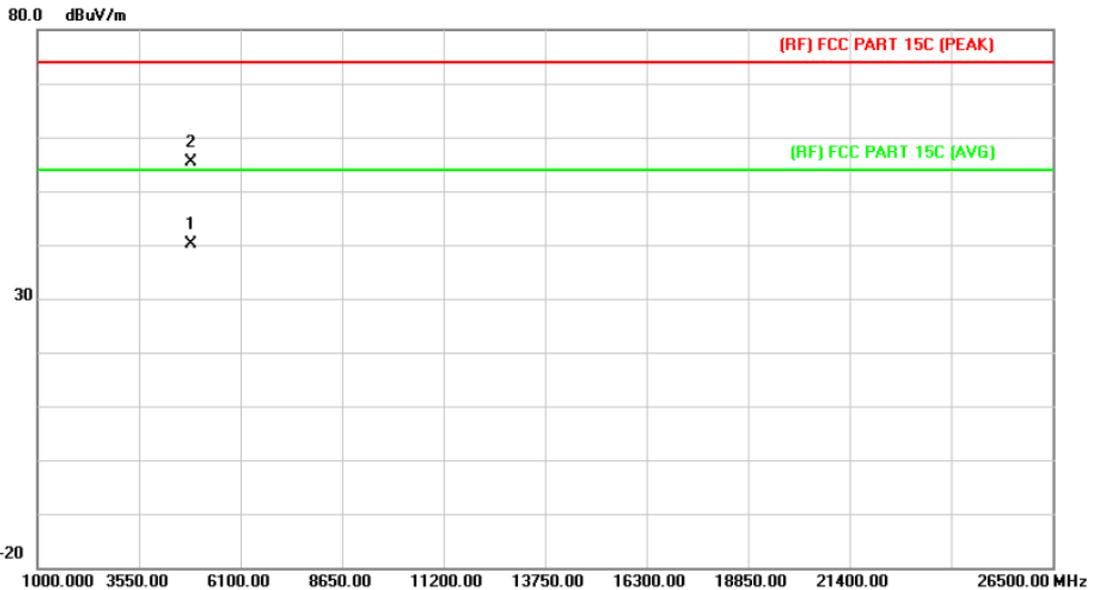
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX n(HT40) Mode 2422MHz ANT. A+ANT. B		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4842.500	26.67	13.50	40.17	54.00	-13.83	AVG
2		4843.016	41.69	13.50	55.19	74.00	-18.81	peak

Emission Level= Read Level+ Correct Factor

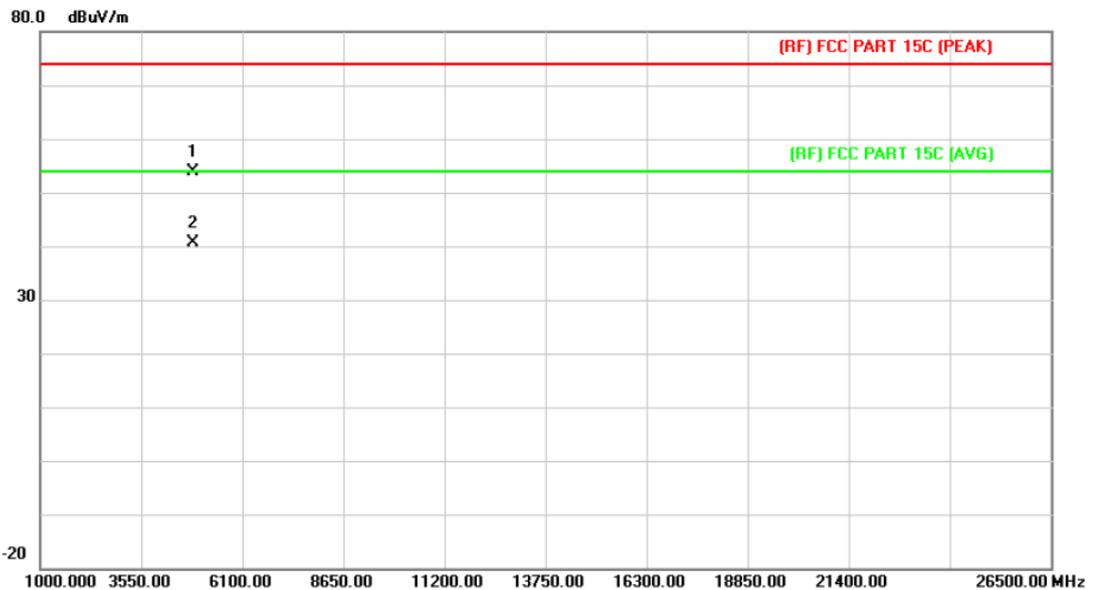
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX n(HT40) Mode 2422MHz ANT. A+ANT. B		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4842.500	26.65	13.50	40.15	54.00	-13.85	AVG
2		4844.504	41.82	13.51	55.33	74.00	-18.67	peak

Emission Level= Read Level+ Correct Factor

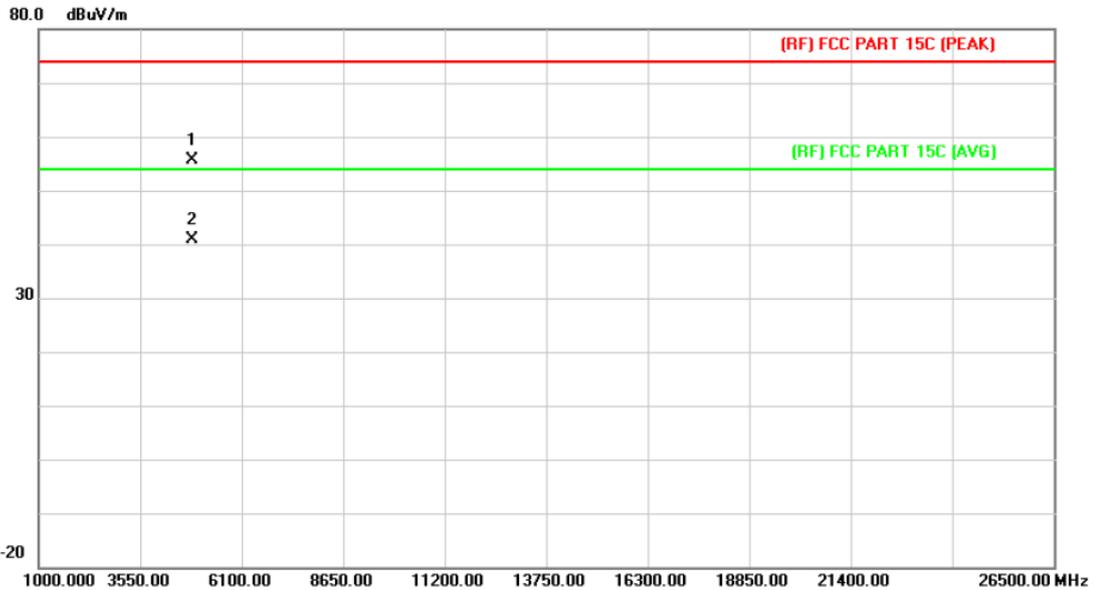
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX n(HT40) Mode 2437MHz ANT. A+ANT. B		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.918	40.39	13.54	53.93	74.00	-20.07	peak
2	*	4875.500	27.20	13.53	40.73	54.00	-13.27	AVG

Emission Level= Read Level+ Correct Factor

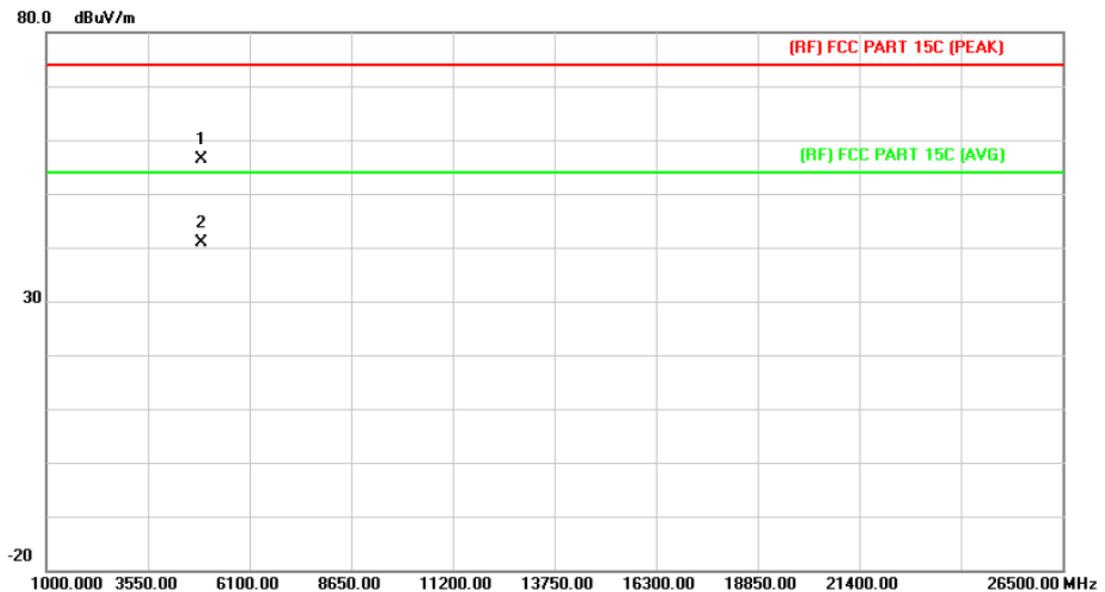
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX n(HT40) Mode 2437MHz ANT. A+ANT. B		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4873.172	42.10	13.53	55.63	74.00	-18.37	peak
2	*	4875.182	27.29	13.53	40.82	54.00	-13.18	AVG

Emission Level= Read Level+ Correct Factor

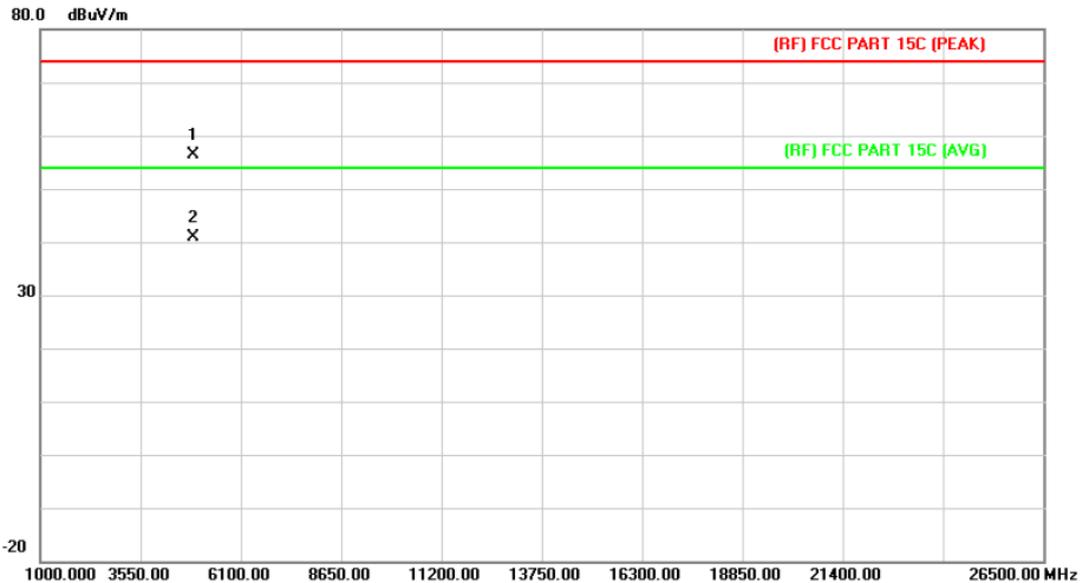
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX n(HT40) Mode 2452MHz ANT. A+ANT. B		
<b>Remark:</b>	No report for the emission which more than 15dB below the prescribed limit.		



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	4903.934	42.89	13.56	56.45	74.00	-17.55	peak
2 *	4905.344	27.28	13.56	40.84	54.00	-13.16	AVG

Emission Level= Read Level+ Correct Factor

<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX n(HT40) Mode 2452MHz ANT. A+ANT. B		
<b>Remark:</b>	No report for the emission which more than 15dB 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		4904.600	42.72	13.56	56.28	74.00	-17.72	peak
2	*	4905.338	27.25	13.56	40.81	54.00	-13.19	AVG

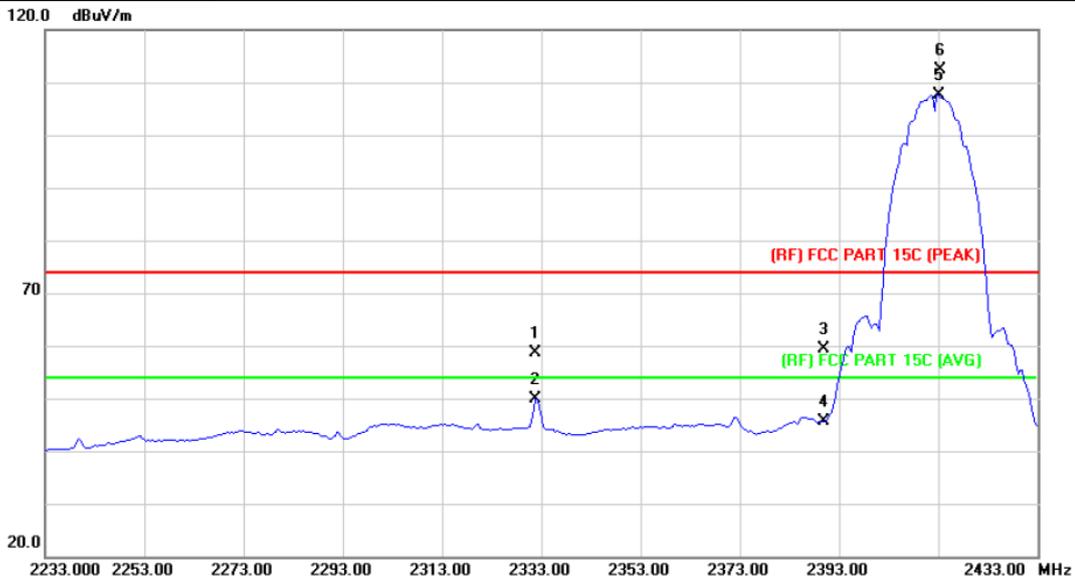
Emission Level= Read Level+ Correct Factor



# Attachment C-- Restricted Bands Requirement and Band-edge Test Data

## (1) Radiation Test

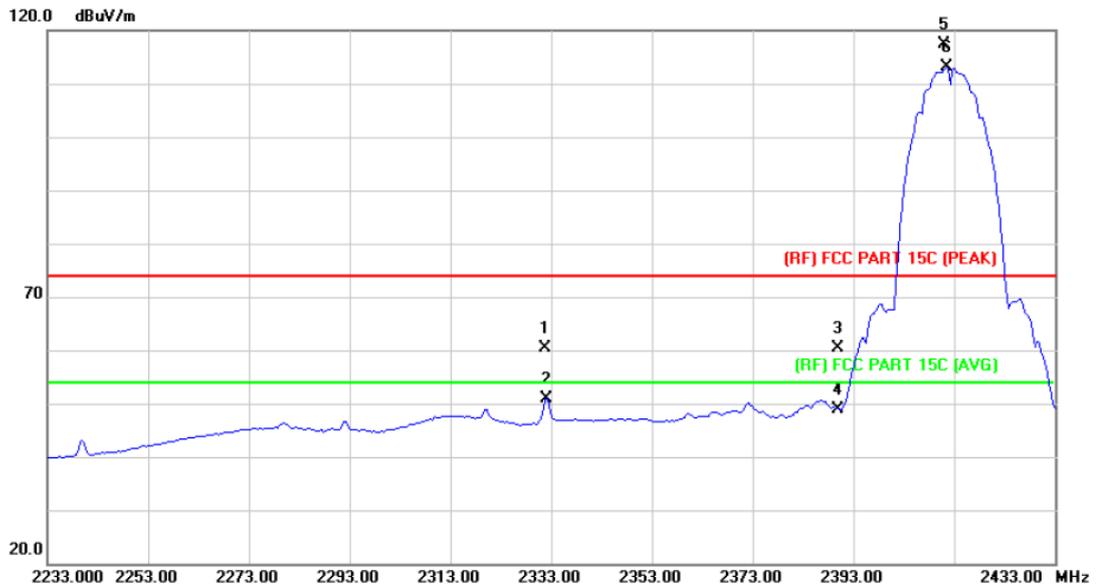
Temperature:	22.8°C	Relative Humidity:	37%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz ANT. A.		
Remark:	Only show the worst case ANT. A.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2331.800	53.36	5.39	58.75	74.00	-15.25	peak
2		2331.800	44.60	5.39	49.99	54.00	-4.01	AVG
3		2390.000	53.80	5.53	59.33	74.00	-14.67	peak
4		2390.000	40.15	5.53	45.68	54.00	-8.32	AVG
5	*	2413.000	102.16	5.58	107.74	Fundamental Frequency		AVG
6	X	2413.400	106.71	5.58	112.29	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

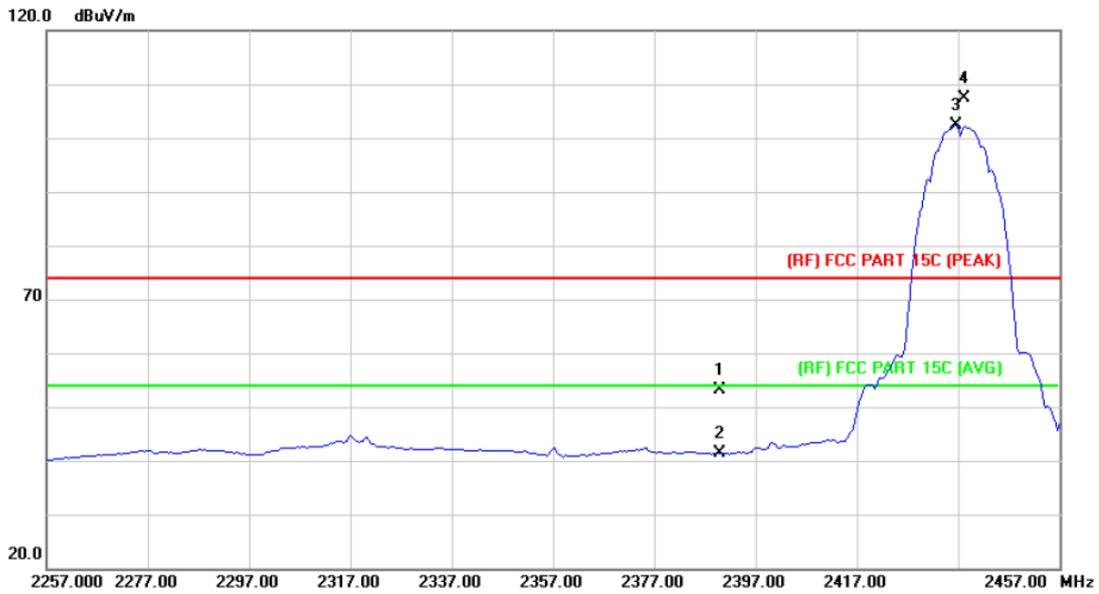
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2412MHz ANT. A.		
<b>Remark:</b>	Only show the worst case ANT. A.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2331.800	54.95	5.39	60.34	74.00	-13.66	peak
2		2332.200	45.58	5.39	50.97	54.00	-3.03	AVG
3		2390.000	54.83	5.53	60.36	74.00	-13.64	peak
4		2390.000	43.30	5.53	48.83	54.00	-5.17	AVG
5	X	2411.000	111.90	5.58	117.48	Fundamental Frequency		peak
6	*	2411.400	107.50	5.58	113.08	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

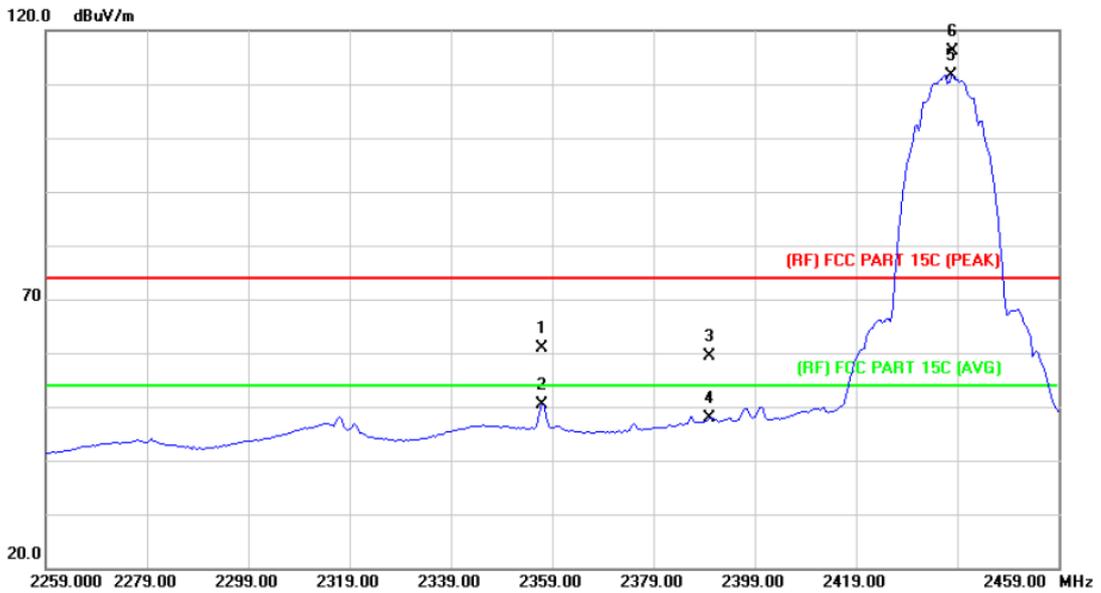
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2437MHz ANT. A.		
<b>Remark:</b>	Only show the worst case ANT. A.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	47.50	5.53	53.03	74.00	-20.97	peak
2		2390.000	35.96	5.53	41.49	54.00	-12.51	AVG
3	*	2436.600	96.79	5.64	102.43	Fundamental Frequency		AVG
4	X	2438.200	101.73	5.65	107.38	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

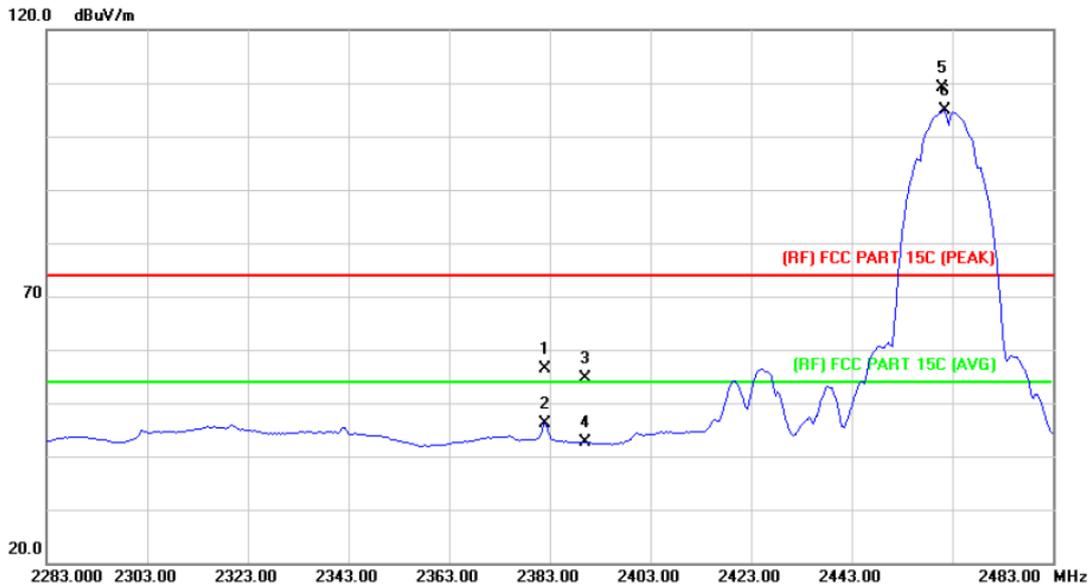
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2437MHz ANT. A.		
<b>Remark:</b>	Only show the worst case ANT. A.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2357.000	55.36	5.45	60.81	74.00	-13.19	peak
2		2357.000	45.03	5.45	50.48	54.00	-3.52	AVG
3		2390.000	53.95	5.53	59.48	74.00	-14.52	peak
4		2390.000	42.37	5.53	47.90	54.00	-6.10	AVG
5	*	2437.800	105.94	5.65	111.59	Fundamental Frequency		AVG
6	X	2438.200	110.47	5.65	116.12	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

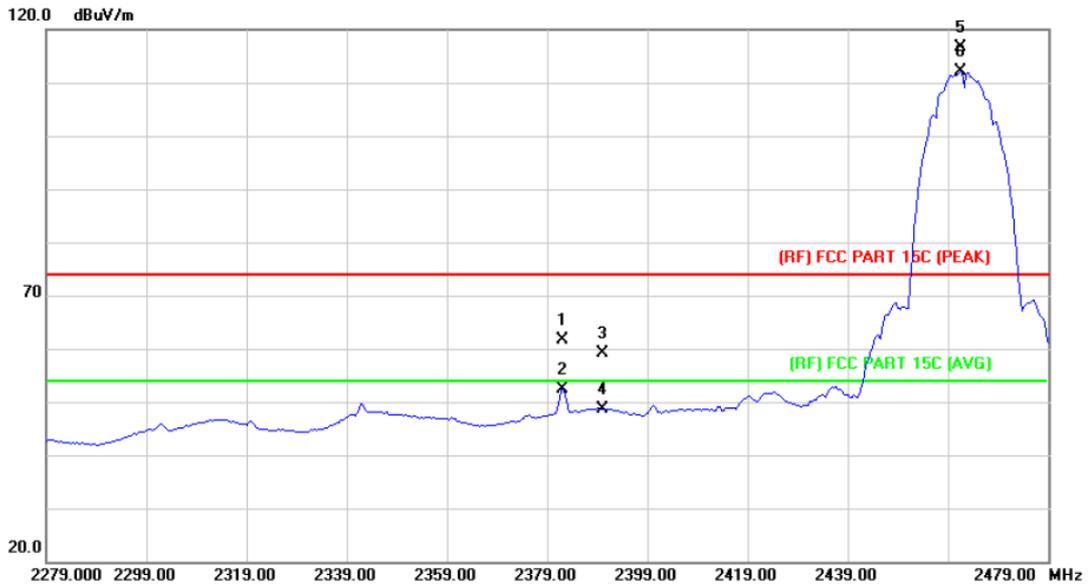
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2462MHz ANT. A.		
<b>Remark:</b>	Only show the worst case ANT. A.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2382.000	50.96	5.51	56.47	Fundamental Frequency		peak
2		2382.200	40.74	5.51	46.25	Fundamental Frequency		AVG
3		2390.000	48.99	5.53	54.52	74.00	-19.48	peak
4		2390.000	37.04	5.53	42.57	54.00	-11.43	AVG
5	X	2461.000	103.48	5.70	109.18	74.00	35.18	peak
6	*	2461.400	99.11	5.70	104.81	54.00	50.81	AVG

Emission Level= Read Level+ Correct Factor

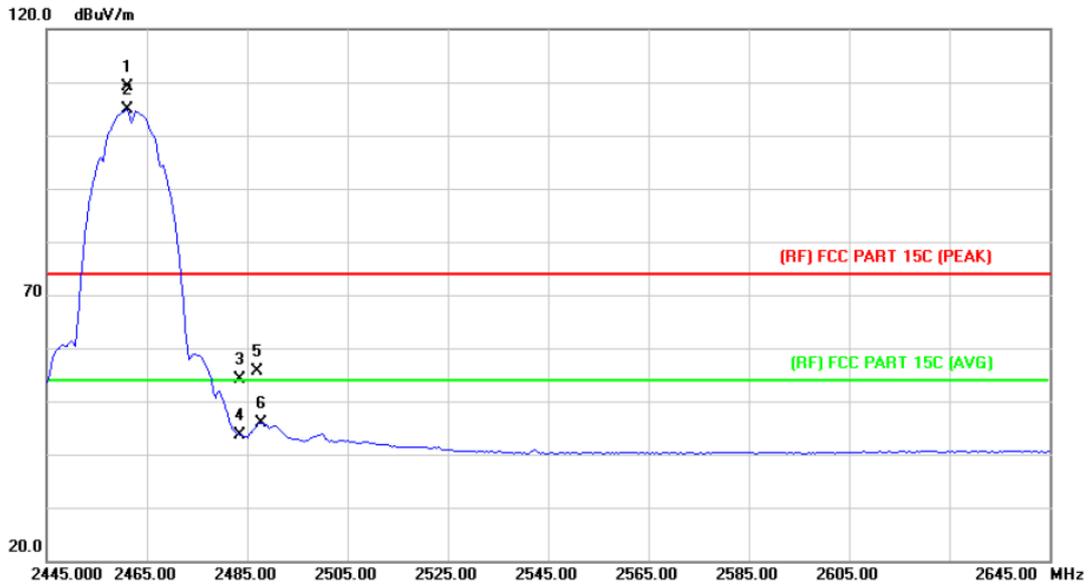
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2462MHz ANT. A.		
<b>Remark:</b>	Only show the worst case ANT. A.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2382.200	56.23	5.51	61.74	74.00	-12.26	peak
2		2382.200	46.92	5.51	52.43	54.00	-1.57	AVG
3		2390.000	53.69	5.53	59.22	74.00	-14.78	peak
4		2390.000	43.16	5.53	48.69	54.00	-5.31	AVG
5	X	2461.400	110.85	5.70	116.55	Fundamental Frequency		peak
6	*	2461.400	106.46	5.70	112.16	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

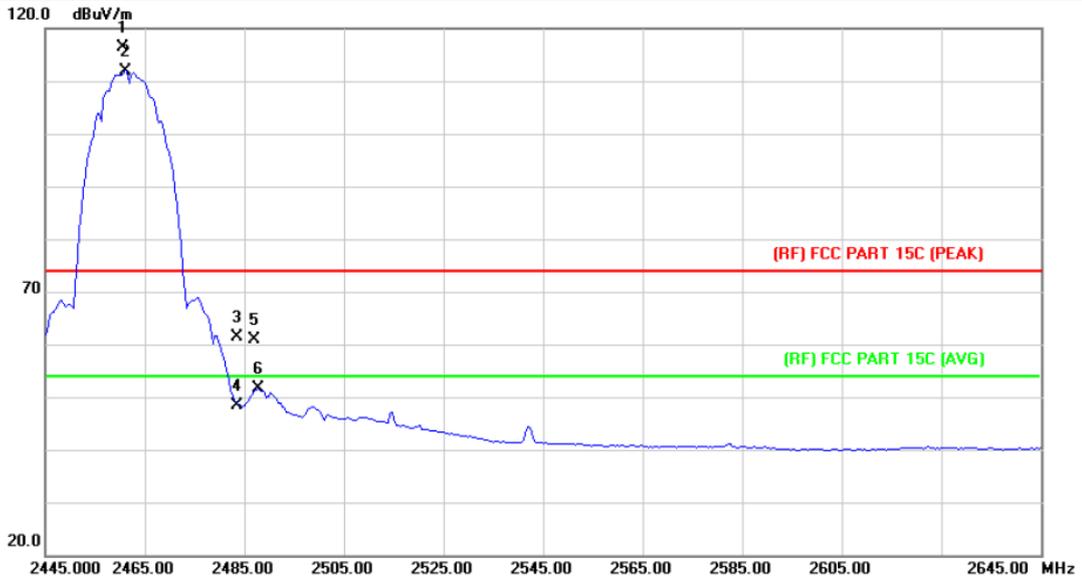
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2462MHz ANT. A.		
<b>Remark:</b>	Only show the worst case ANT. A.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2461.000	103.47	5.70	109.17	Fundamental Frequency		peak
2	*	2461.000	99.16	5.70	104.86	Fundamental Frequency		AVG
3		2483.500	48.30	5.75	54.05	74.00	-19.95	peak
4		2483.500	37.84	5.75	43.59	54.00	-10.41	AVG
5		2487.000	49.81	5.76	55.57	74.00	-18.43	peak
6		2487.800	40.13	5.76	45.89	54.00	-8.11	AVG

Emission Level= Read Level+ Correct Factor

<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2462MHz ANT. A.		
<b>Remark:</b>	Only show the worst case ANT. A.		

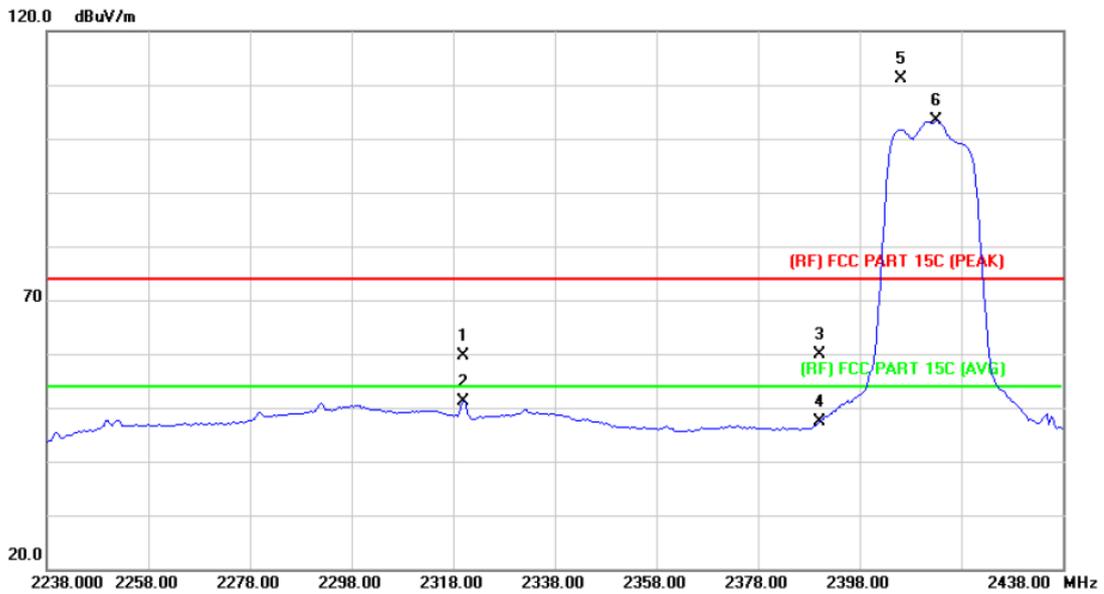


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2460.600	110.74	5.70	116.44	Fundamental Frequency		peak
2	*	2461.000	106.30	5.70	112.00	Fundamental Frequency		AVG
3		2483.500	55.74	5.75	61.49	74.00	-12.51	peak
4		2483.500	42.75	5.75	48.50	54.00	-5.50	AVG
5		2487.000	55.21	5.76	60.97	74.00	-13.03	peak
6		2487.800	45.76	5.76	51.52	54.00	-2.48	AVG

Emission Level= Read Level+ Correct Factor



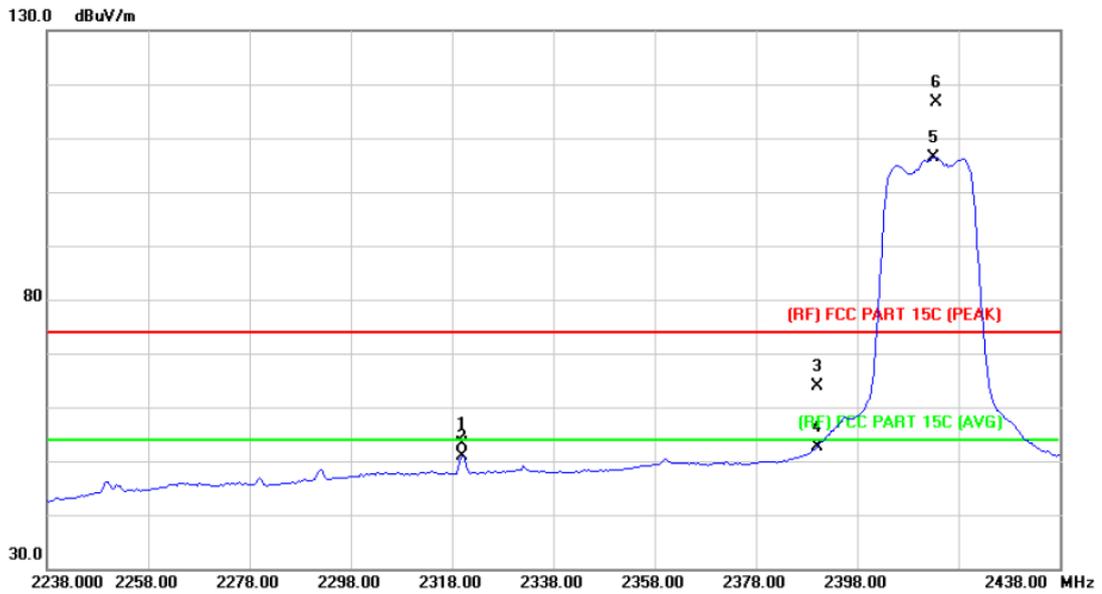
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2412MHz ANT. A+ANT. B		
<b>Remark:</b>	Only show the worst case.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2320.000	54.27	5.37	59.64	74.00	-14.36	peak
2		2320.000	45.87	5.37	51.24	54.00	-2.76	AVG
3		2390.000	54.28	5.53	59.81	74.00	-14.19	peak
4		2390.000	41.73	5.53	47.26	54.00	-6.74	AVG
5	X	2406.000	105.63	5.57	111.20			Fundamental Frequency peak
6	*	2413.200	97.77	5.58	103.35			Fundamental Frequency AVG

Emission Level= Read Level+ Correct Factor

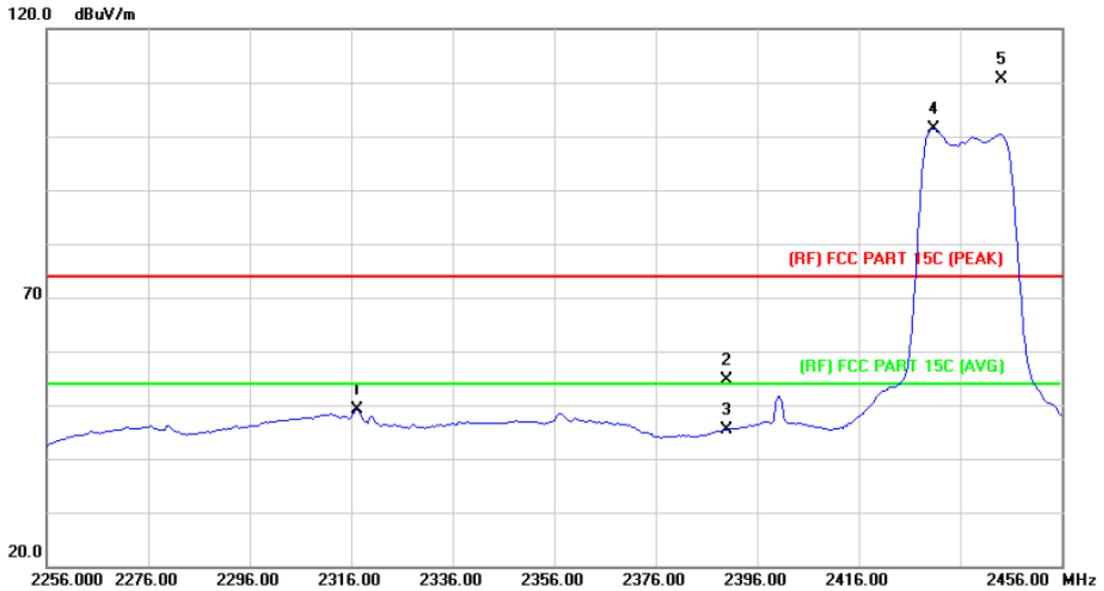
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2412MHz ANT. A+ANT. B		
<b>Remark:</b>	Only show the worst case.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2320.000	47.67	5.37	53.04	74.00	-20.96	peak
2		2320.000	45.62	5.37	50.99	54.00	-3.01	AVG
3		2390.000	58.29	5.53	63.82	74.00	-10.18	peak
4		2390.000	47.19	5.53	52.72	54.00	-1.28	AVG
5	*	2413.200	100.87	5.58	106.45	Fundamental Frequency		AVG
6	X	2413.600	111.05	5.58	116.63	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

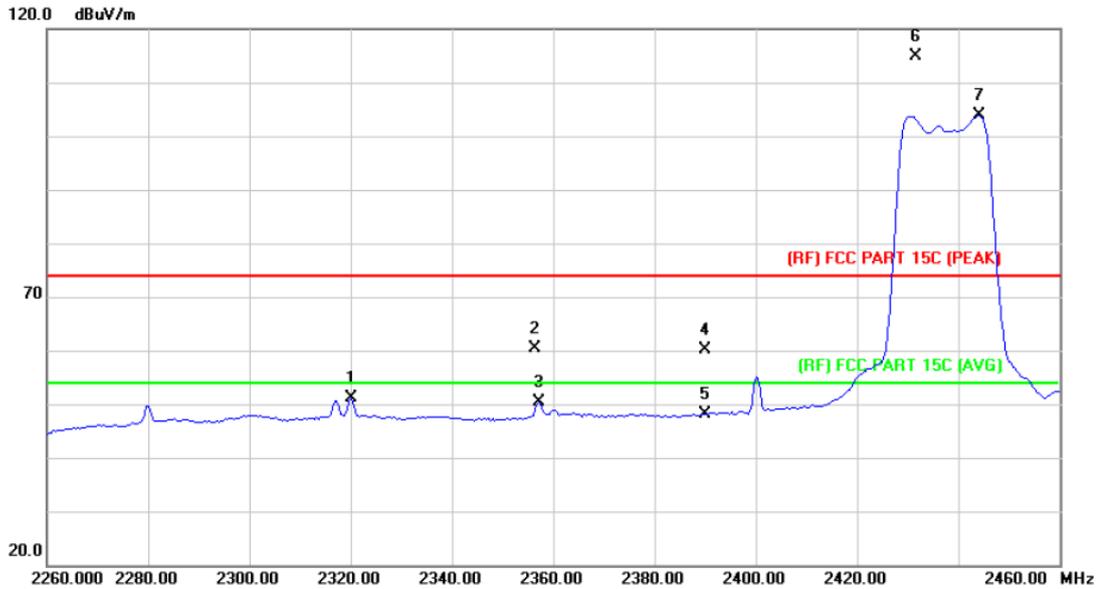
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2437MHz ANT. A+ANT. B		
<b>Remark:</b>	Only show the worst case.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2317.200	43.87	5.36	49.23	54.00	-4.77	AVG
2		2390.000	49.15	5.53	54.68	74.00	-19.32	peak
3		2390.000	39.95	5.53	45.48	54.00	-8.52	AVG
4	*	2430.800	95.84	5.64	101.48			Fundamental Frequency AVG
5	X	2444.000	104.89	5.65	110.54			Fundamental Frequency peak

Emission Level= Read Level+ Correct Factor

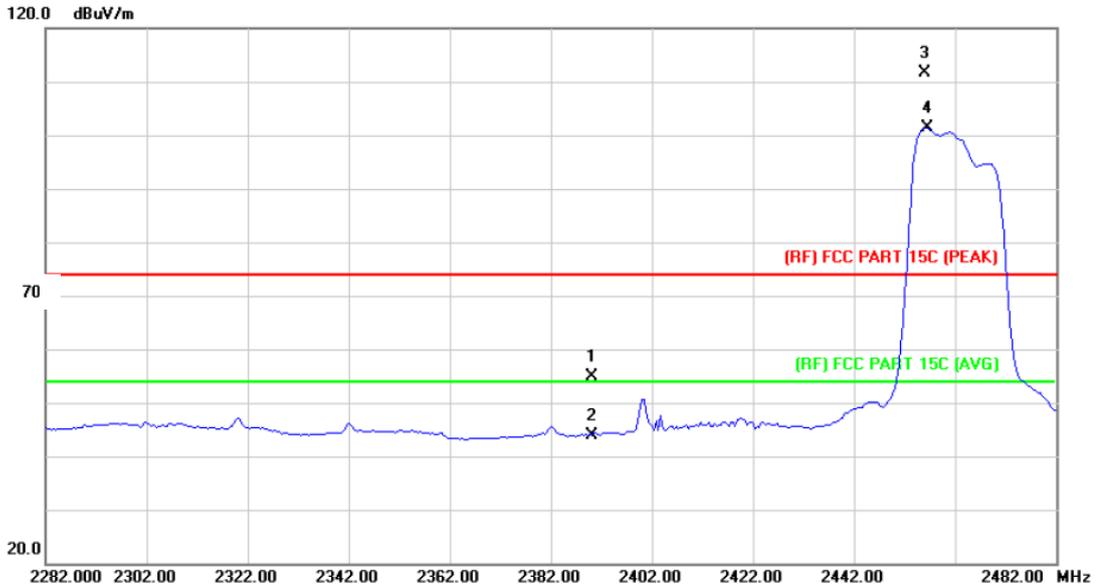
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2437MHz ANT. A+ANT. B		
<b>Remark:</b>	Only show the worst case.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2320.000	45.68	5.37	51.05	54.00	-2.95	AVG
2		2356.400	54.94	5.44	60.38	74.00	-13.62	peak
3		2357.200	44.94	5.45	50.39	54.00	-3.61	AVG
4		2390.000	54.51	5.53	60.04	74.00	-13.96	peak
5		2390.000	42.67	5.53	48.20	54.00	-5.80	AVG
6	X	2431.600	109.21	5.63	114.84	Fundamental Frequency		peak
7	*	2444.000	98.18	5.65	103.83	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

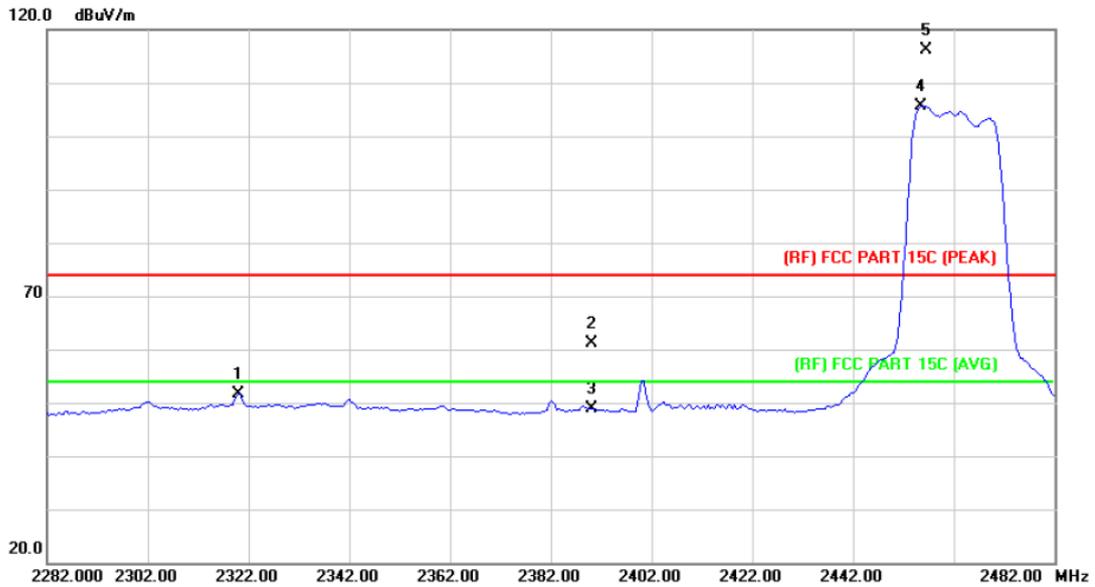
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2462MHz ANT. A+ANT. B		
<b>Remark:</b>	Only show the worst case.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	49.27	5.53	54.80	74.00	-19.20	peak
2		2390.000	38.38	5.53	43.91	54.00	-10.09	AVG
3	X	2456.000	105.85	5.69	111.54	Fundamental Frequency		peak
4	*	2456.400	95.73	5.68	101.41	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

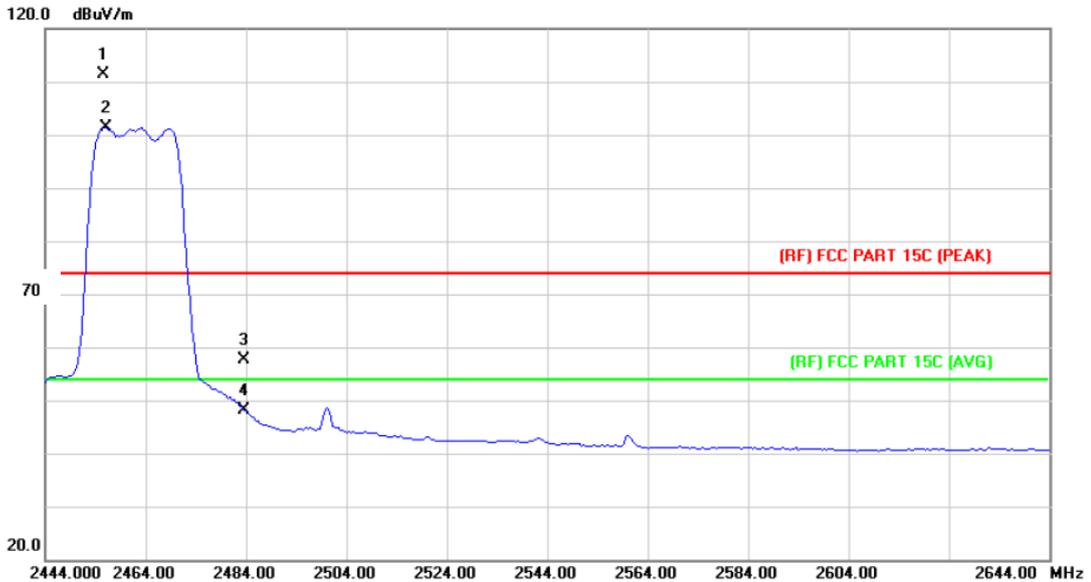
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2462MHz ANT. A+ANT. B		
<b>Remark:</b>	Only show the worst case.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2320.000	46.16	5.37	51.53	54.00	-2.47	AVG
2		2390.000	55.48	5.53	61.01	74.00	-12.99	peak
3		2390.000	43.32	5.53	48.85	54.00	-5.15	AVG
4	*	2455.600	100.03	5.69	105.72	Fundamental Frequency		AVG
5	X	2456.400	110.35	5.68	116.03	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

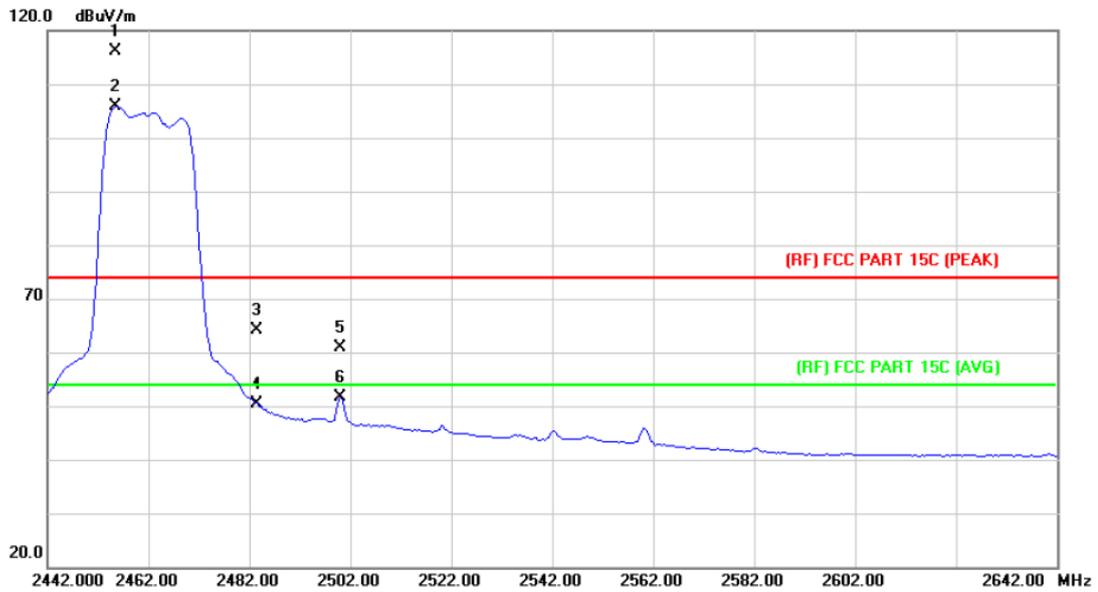
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2462MHz ANT. A+ANT. B		
<b>Remark:</b>	Only show the worst case.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2455.600	105.74	5.69	111.43	Fundamental Frequency		peak
2	*	2456.000	95.62	5.69	101.31	Fundamental Frequency		AVG
3		2483.500	51.84	5.75	57.59	74.00	-16.41	peak
4		2483.500	42.39	5.75	48.14	54.00	-5.86	AVG

Emission Level= Read Level+ Correct Factor

<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2462MHz ANT. A+ANT. B		
<b>Remark:</b>	Only show the worst case.		

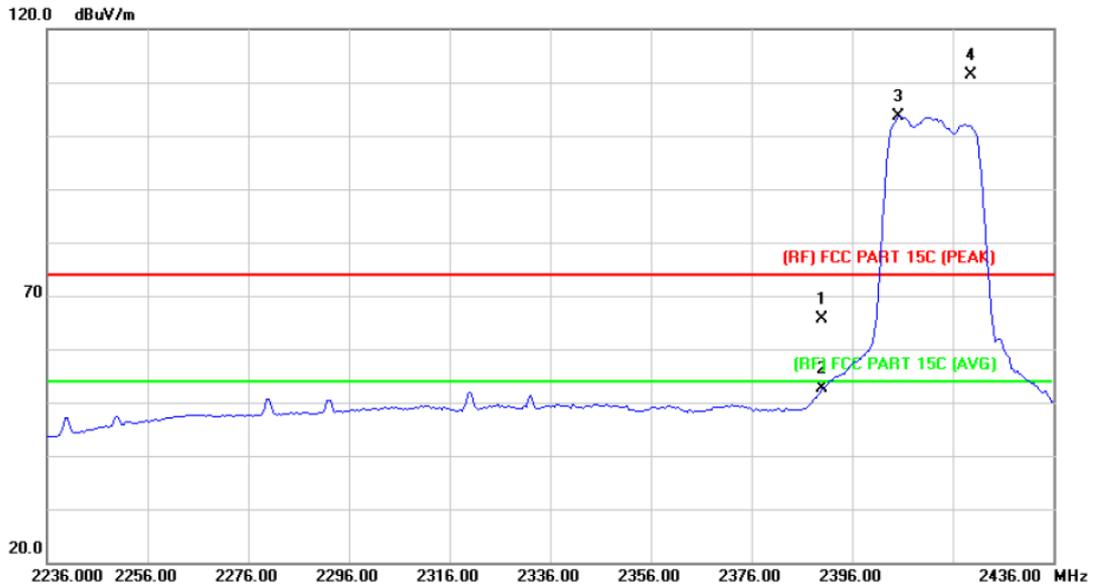


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2455.600	110.43	5.69	116.12	Fundamental Frequency		peak
2	*	2455.600	100.15	5.69	105.84	Fundamental Frequency		AVG
3		2483.500	58.26	5.75	64.01	74.00	-9.99	peak
4		2483.500	44.64	5.75	50.39	54.00	-3.61	AVG
5		2500.000	55.20	5.79	60.99	74.00	-13.01	peak
6		2500.000	45.90	5.79	51.69	54.00	-2.31	AVG

Emission Level= Read Level+ Correct Factor



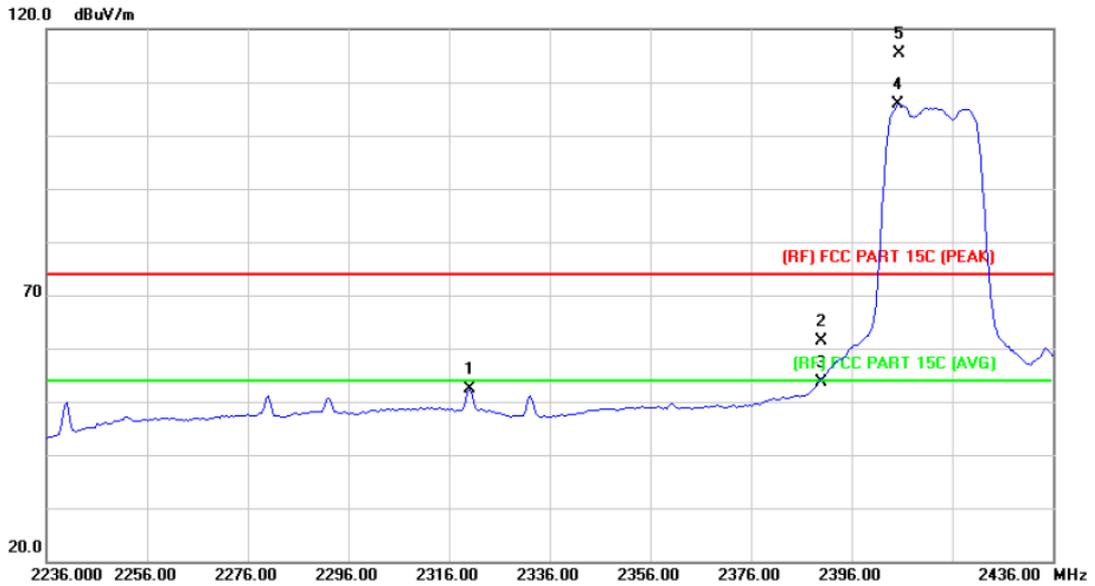
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2412MHz ANT. A.+ANT. B		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	60.09	5.53	65.62	74.00	-8.38	peak
2		2390.000	46.98	5.53	52.51	54.00	-1.49	AVG
3	*	2405.200	98.15	5.57	103.72	Fundamental Frequency		AVG
4	X	2419.600	105.76	5.60	111.36	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

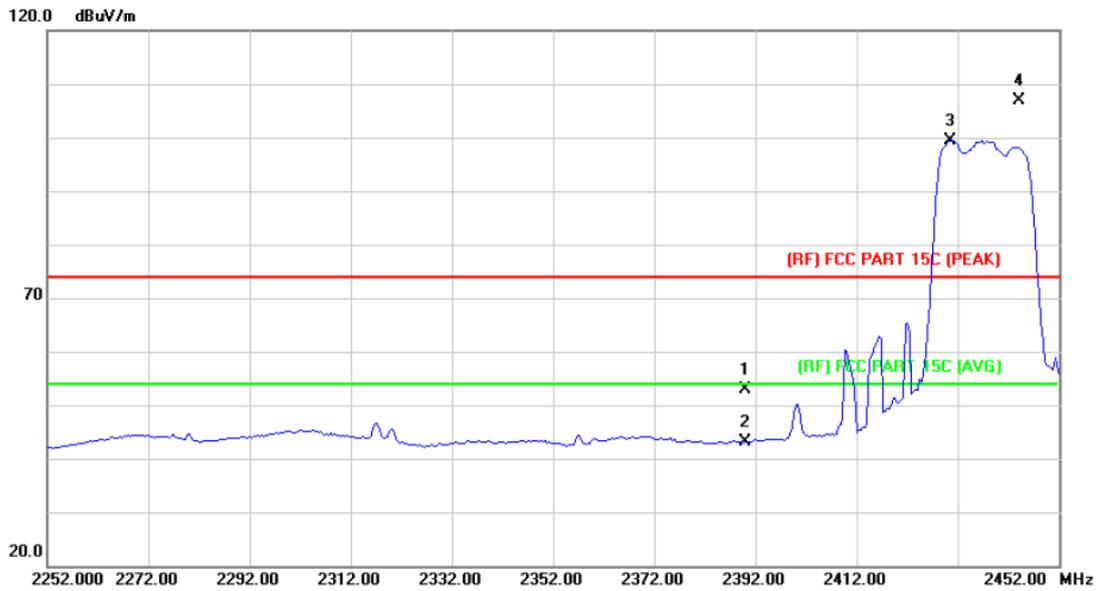
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT20) Mode 2412MHz ANT. A.+ANT. B		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2320.000	46.95	5.37	52.32	74.00	-21.68	peak
2		2390.000	55.80	5.53	61.33	74.00	-12.67	peak
3		2390.000	48.15	5.53	53.68	54.00	-0.32	AVG
4	*	2405.200	100.24	5.57	105.81	Fundamental Frequency		AVG
5	X	2405.600	109.83	5.57	115.40	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

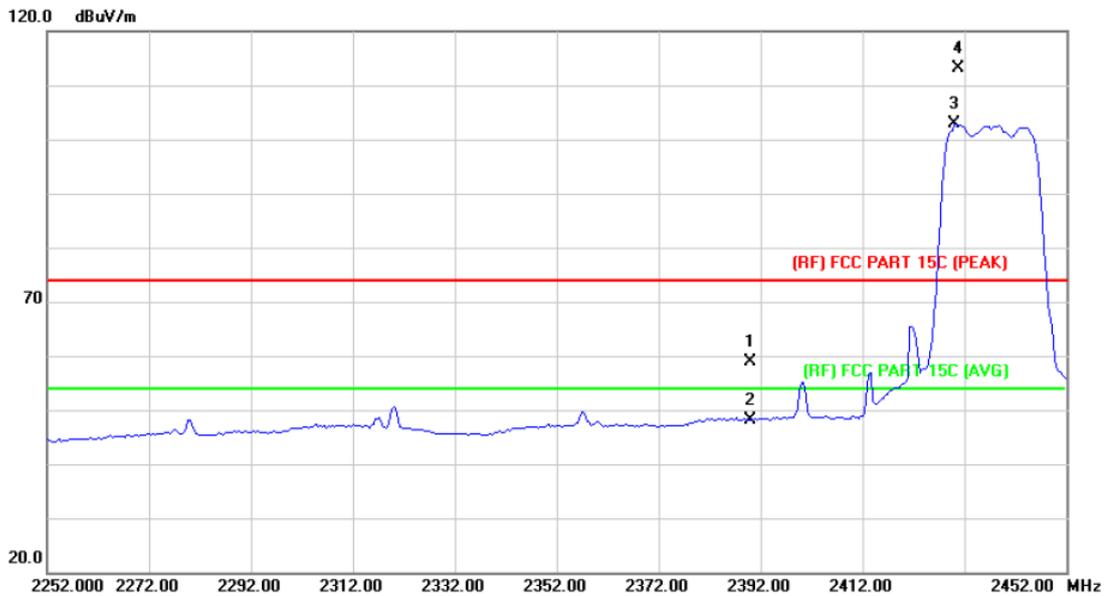
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2437MHz ANT. A.+ANT. B		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	47.32	5.53	52.85	74.00	-21.15	peak
2		2390.000	37.54	5.53	43.07	54.00	-10.93	AVG
3	*	2430.400	93.85	5.63	99.48	Fundamental Frequency		AVG
4	X	2444.000	101.18	5.65	106.83	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

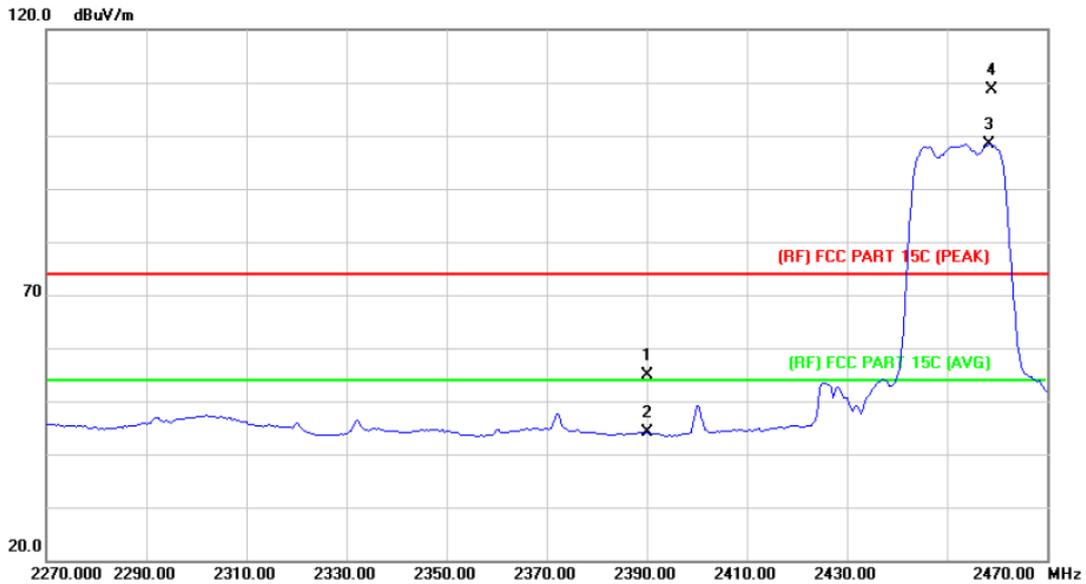
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT20) Mode 2437MHz ANT. A.+ANT. B		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	53.27	5.53	58.80	74.00	-15.20	peak
2		2390.000	42.70	5.53	48.23	54.00	-5.77	AVG
3	*	2430.000	97.37	5.62	102.99	Fundamental Frequency		AVG
4	X	2430.800	107.50	5.64	113.14	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

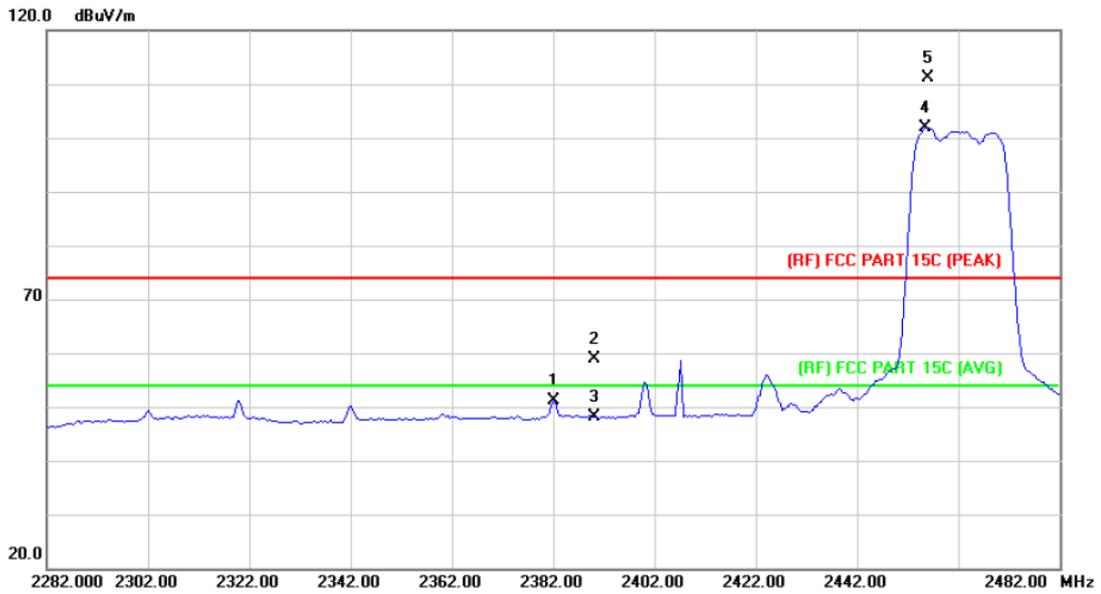
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2462MHz ANT. A.+ANT. B		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	49.36	5.53	54.89	74.00	-19.11	peak
2		2390.000	38.51	5.53	44.04	54.00	-9.96	AVG
3	*	2458.400	92.62	5.69	98.31	Fundamental Frequency		AVG
4	X	2458.800	102.88	5.69	108.57	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

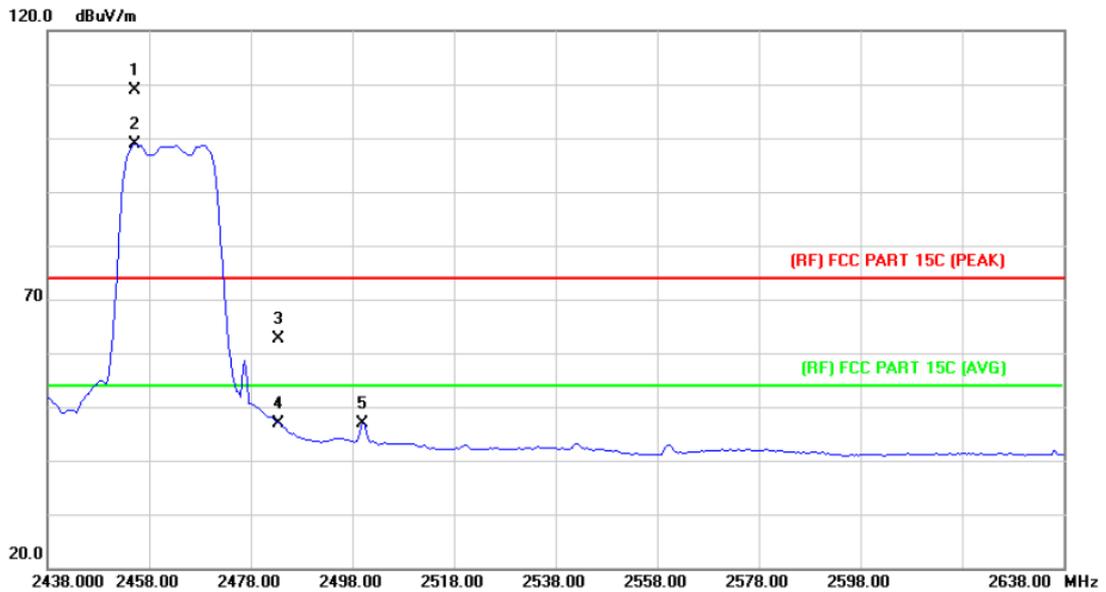
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT20) Mode 2462MHz ANT. A.+ANT. B		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		2382.000	45.59	5.51	51.10	74.00	-22.90	peak
2		2390.000	53.31	5.53	58.84	74.00	-15.16	peak
3		2390.000	42.51	5.53	48.04	54.00	-5.96	AVG
4	*	2455.600	96.13	5.69	101.82	Fundamental Frequency		AVG
5	X	2456.000	105.43	5.69	111.12	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

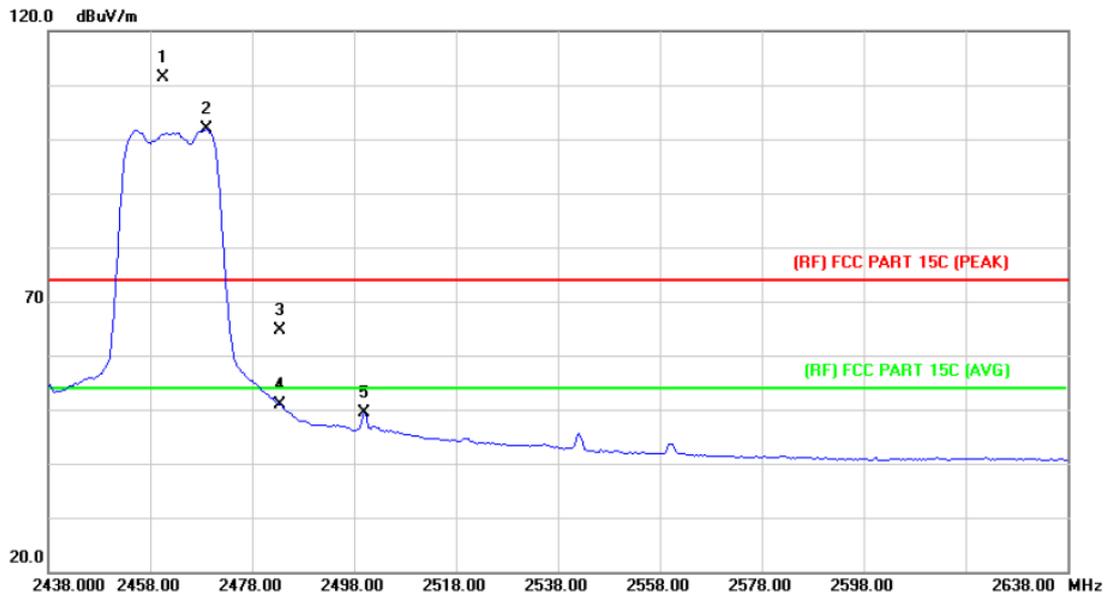
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2462MHz ANT. A.+ANT. B		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2455.200	103.28	5.69	108.97	Fundamental Frequency		peak
2	*	2455.200	93.20	5.69	98.89	Fundamental Frequency		AVG
3		2483.500	56.78	5.75	62.53	74.00	-11.47	peak
4		2483.500	41.21	5.75	46.96	54.00	-7.04	AVG
5		2500.000	41.00	5.79	46.79	74.00	-27.21	peak

Emission Level= Read Level+ Correct Factor

<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT20) Mode 2462MHz ANT. A.+ANT. B		
<b>Remark:</b>	N/A		

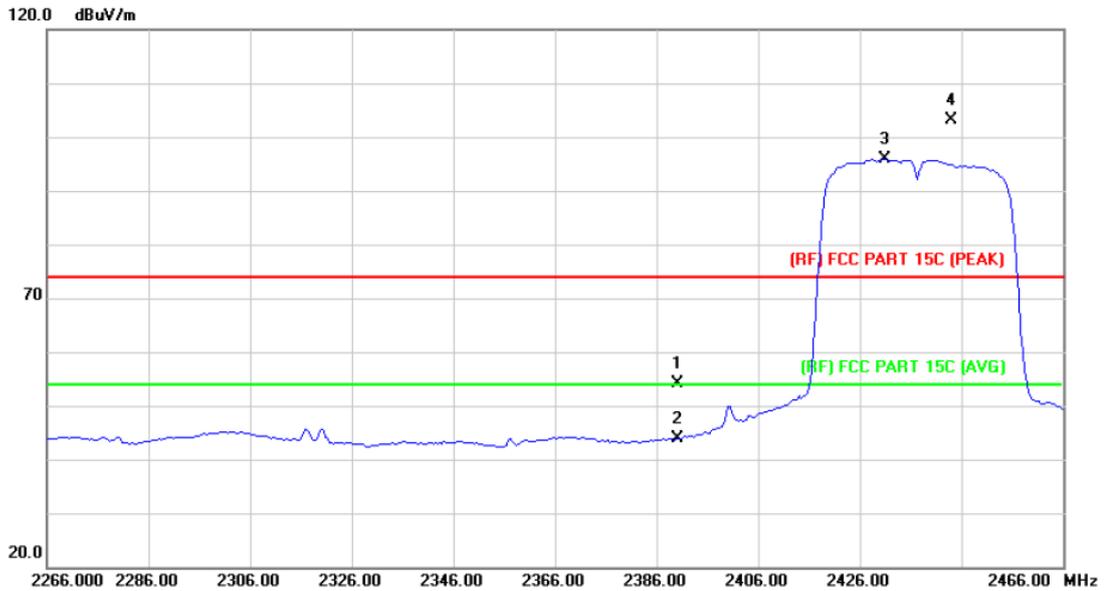


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2460.400	105.70	5.70	111.40	Fundamental Frequency		peak
2	*	2469.200	96.07	5.71	101.78	Fundamental Frequency		AVG
3		2483.500	58.90	5.75	64.65	74.00	-9.35	peak
4		2483.500	45.07	5.75	50.82	54.00	-3.18	AVG
5		2500.000	43.52	5.79	49.31	74.00	-24.69	peak

Emission Level= Read Level+ Correct Factor



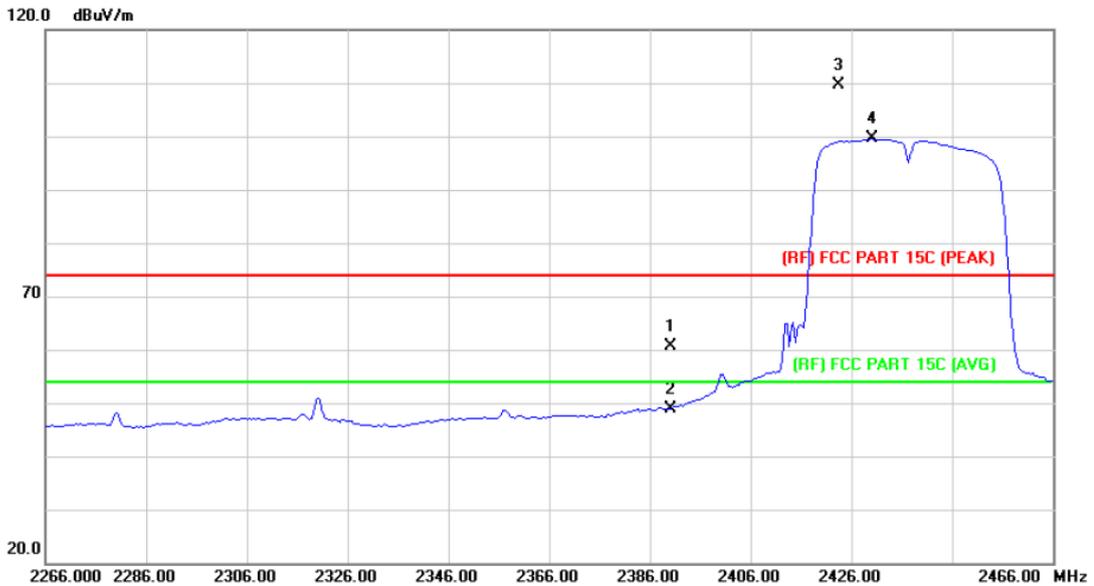
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2422MHz ANT. A.+ANT. B		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	48.68	5.53	54.21	74.00	-19.79	peak
2		2390.000	38.40	5.53	43.93	54.00	-10.07	AVG
3	*	2430.800	90.16	5.64	95.80	Fundamental Frequency		AVG
4	X	2444.000	97.54	5.65	103.19	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

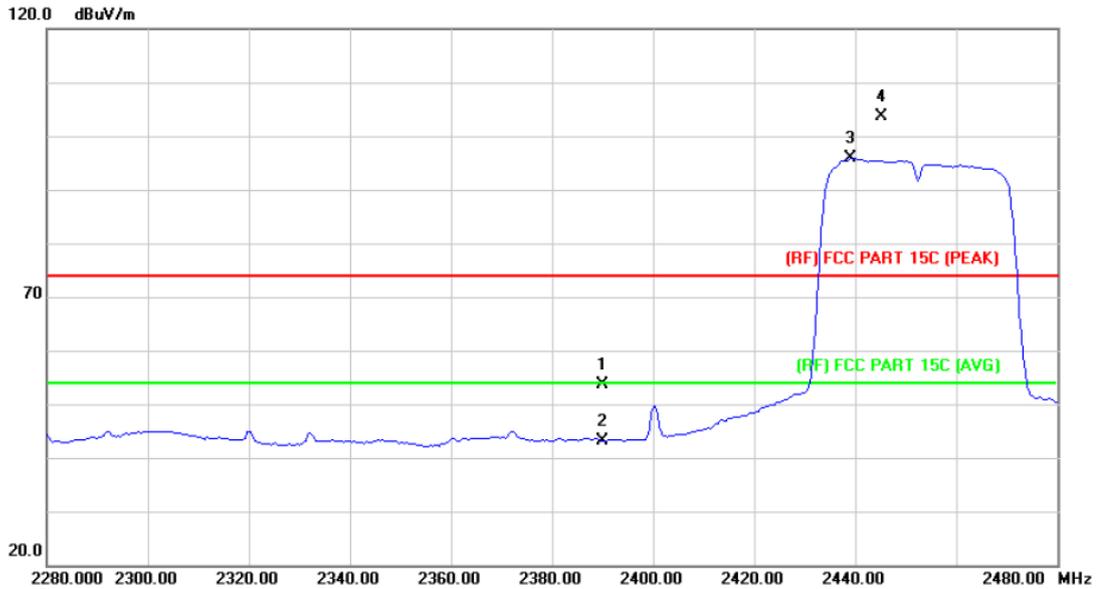
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT40) Mode 2422MHz ANT. A.+ANT. B		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	55.02	5.53	60.55	74.00	-13.45	peak
2		2390.000	43.45	5.53	48.98	54.00	-5.02	AVG
3	X	2423.600	104.13	5.61	109.74	Fundamental Frequency		peak
4	*	2430.000	93.93	5.62	99.55	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

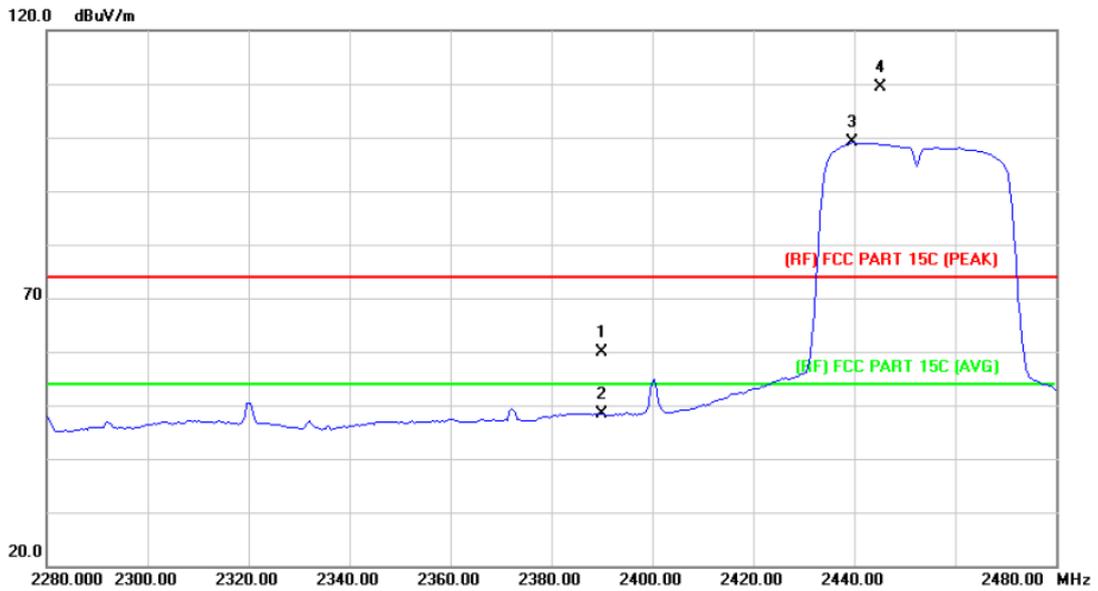
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2437MHz ANT. A.+ANT. B		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	48.00	5.53	53.53	74.00	-20.47	peak
2		2390.000	37.62	5.53	43.15	54.00	-10.85	AVG
3	*	2439.200	90.16	5.65	95.81	Fundamental Frequency		AVG
4	X	2445.200	98.05	5.66	103.71	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

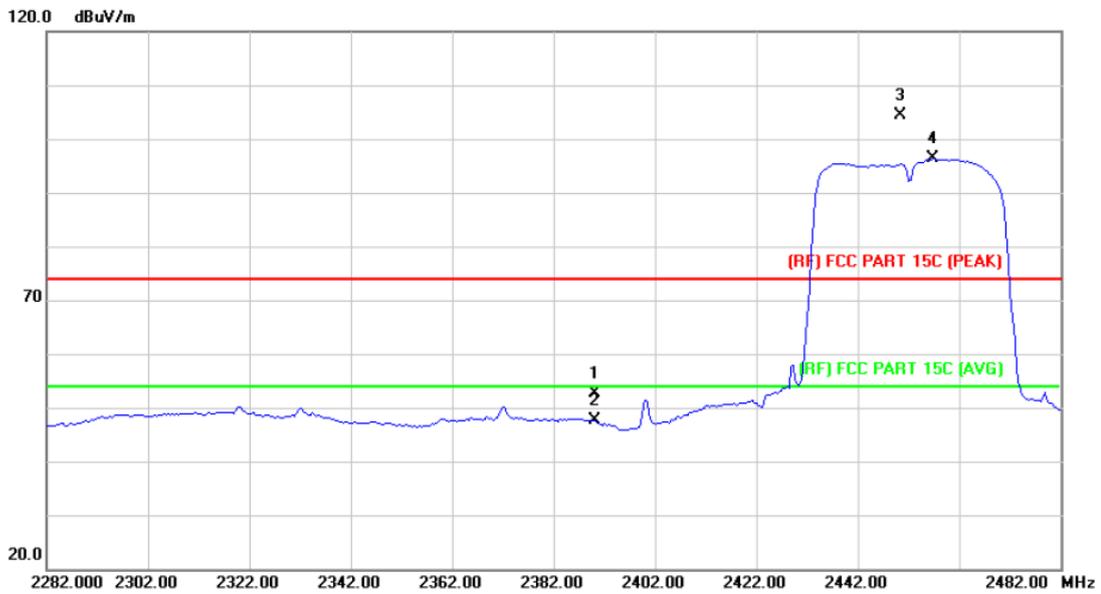
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT40) Mode 2437MHz ANT. A.+ANT. B		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		2390.000	54.42	5.53	59.95	74.00	-14.05	peak
2		2390.000	42.73	5.53	48.26	54.00	-5.74	AVG
3	*	2439.600	93.40	5.65	99.05	Fundamental Frequency		AVG
4	X	2445.200	103.82	5.66	109.48	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

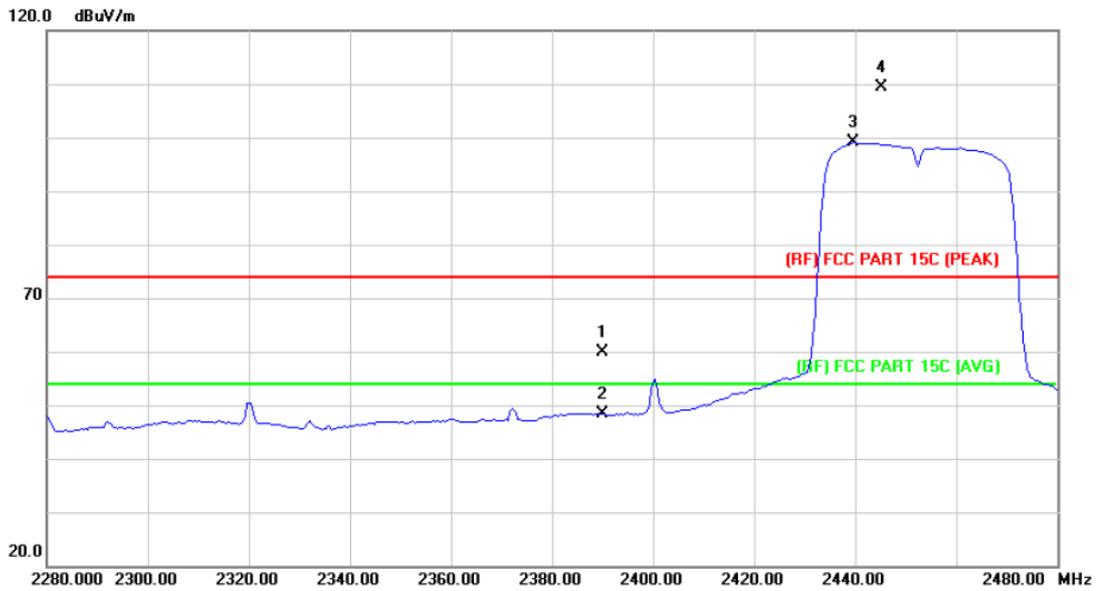
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2452MHz ANT. A.+ANT. B		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	47.22	5.53	52.75	74.00	-21.25	peak
2		2390.000	42.20	5.53	47.73	54.00	-6.27	AVG
3	X	2450.400	98.75	5.67	104.42	Fundamental Frequency		peak
4	*	2456.800	90.59	5.68	96.27	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

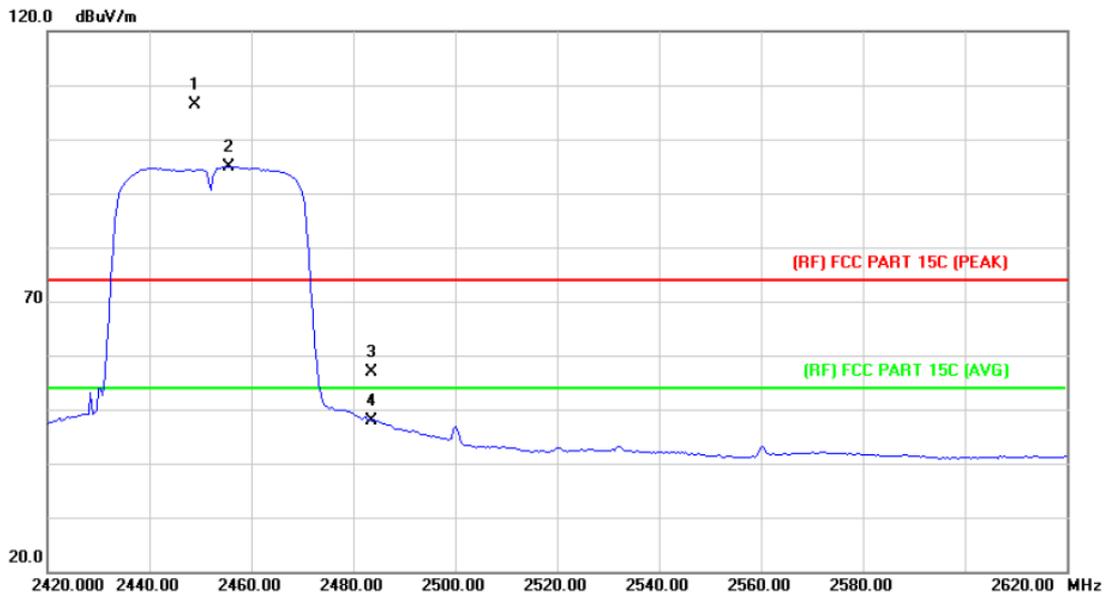
v	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz ANT. A.+ANT. B		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	54.42	5.53	59.95	74.00	-14.05	peak
2		2390.000	42.73	5.53	48.26	54.00	-5.74	AVG
3	*	2439.600	93.40	5.65	99.05	Fundamental Frequency		AVG
4	X	2445.200	103.82	5.66	109.48	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

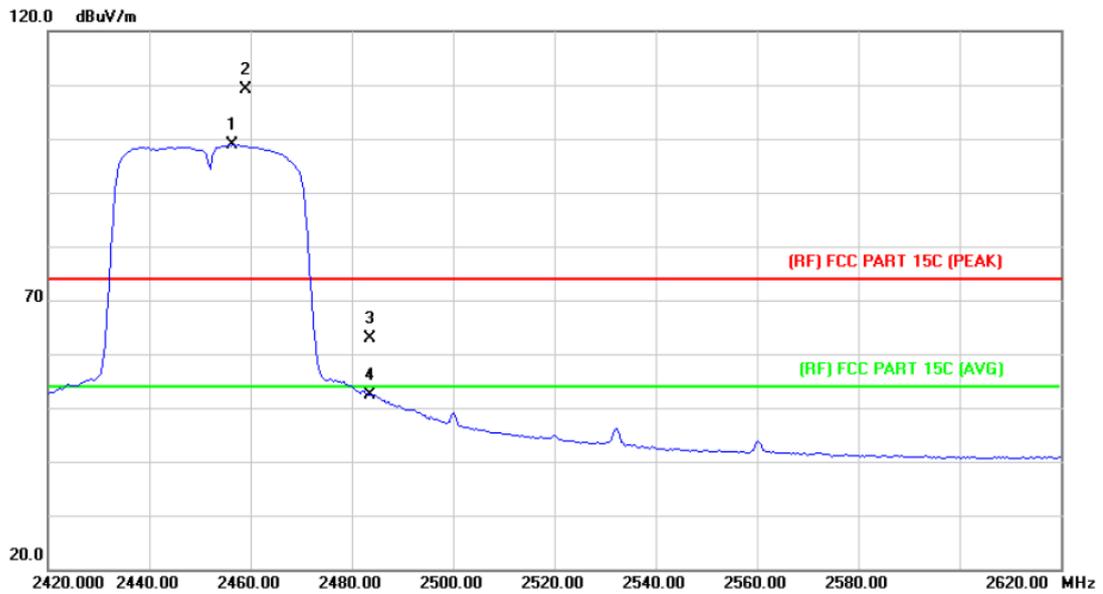
<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2452MHz ANT. A.+ANT. B		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2448.800	100.81	5.67	106.48	Fundamental Frequency		peak
2	*	2455.600	89.20	5.69	94.89	Fundamental Frequency		AVG
3		2483.500	51.21	5.75	56.96	74.00	-17.04	peak
4		2483.500	42.20	5.75	47.95	54.00	-6.05	AVG

Emission Level= Read Level+ Correct Factor

<b>Temperature:</b>	22.8°C	<b>Relative Humidity:</b>	37%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT40) Mode 2452MHz ANT. A.+ANT. B		
<b>Remark:</b>	N/A		



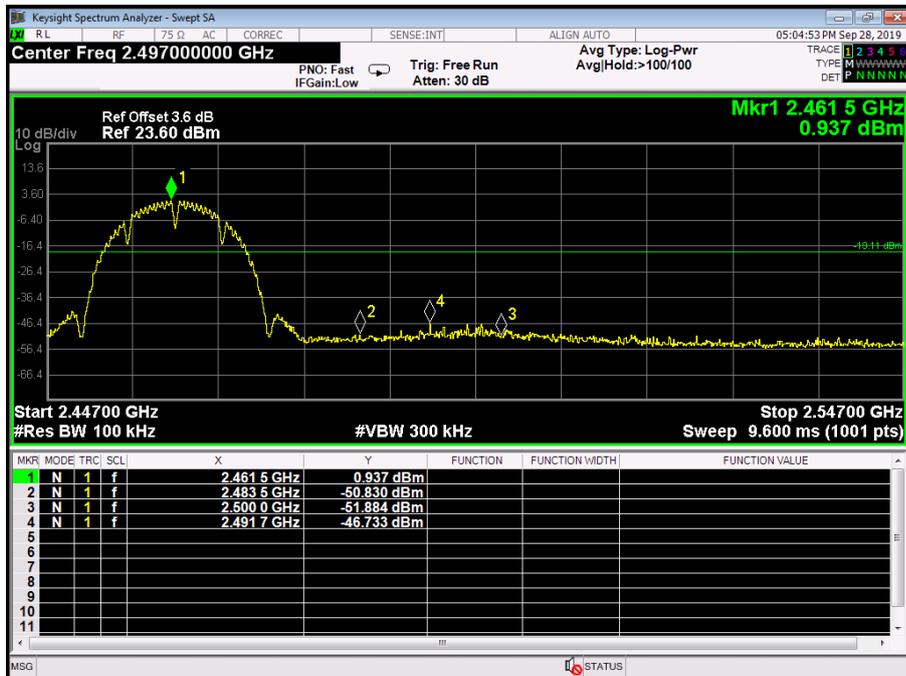
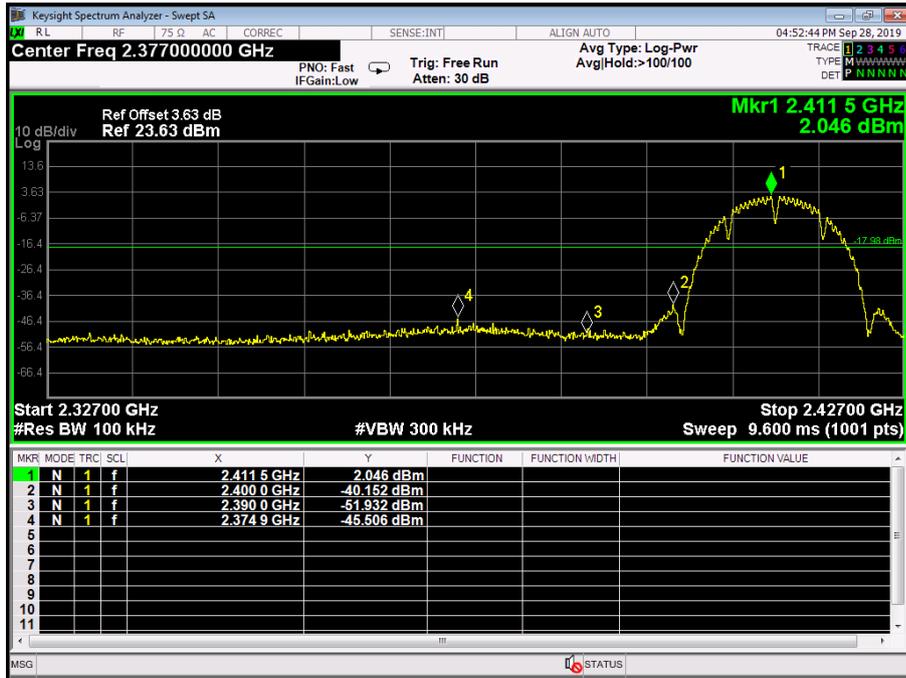
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2456.400	93.14	5.68	98.82	Fundamental Frequency		AVG
2	X	2459.200	103.39	5.69	109.08	Fundamental Frequency		peak
3		2483.500	57.04	5.75	62.79	74.00	-11.21	peak
4		2483.500	46.63	5.75	52.38	54.00	-1.62	AVG

Emission Level= Read Level+ Correct Factor

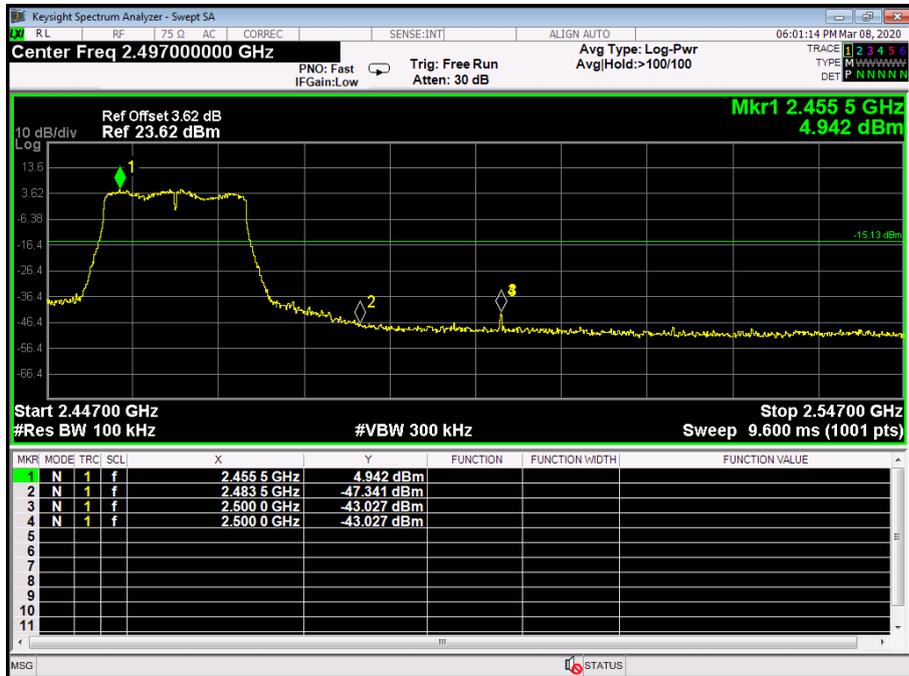


**(2) Conducted Test**

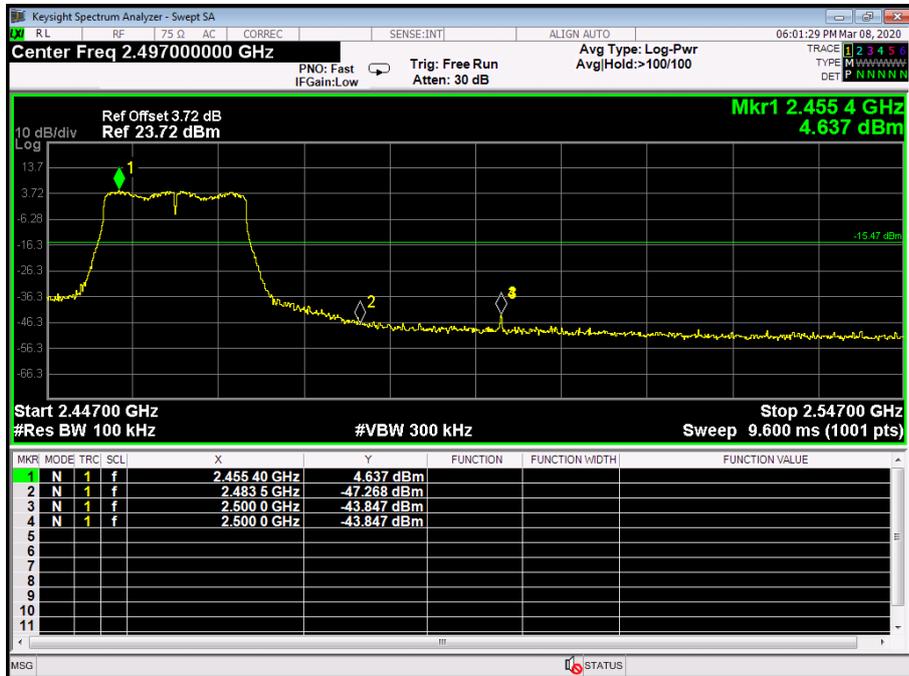
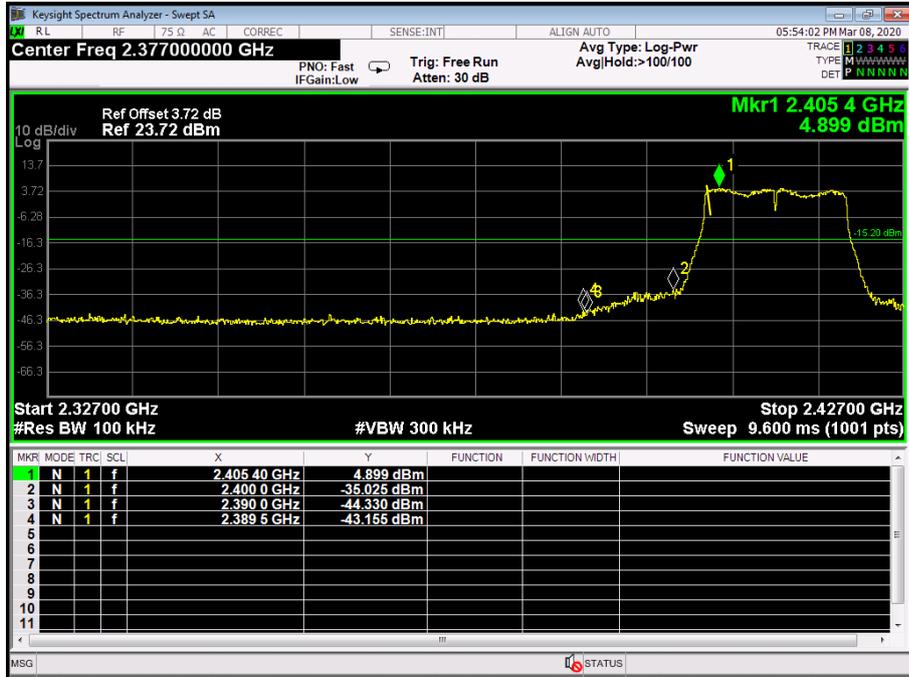
<b>Temperature:</b>	25°C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Test Mode:</b>	TX B Mode 2412MHz / TX B Mode 2462MHz		
<b>Remark:</b>	The EUT is programmed in continuously transmitting mode		



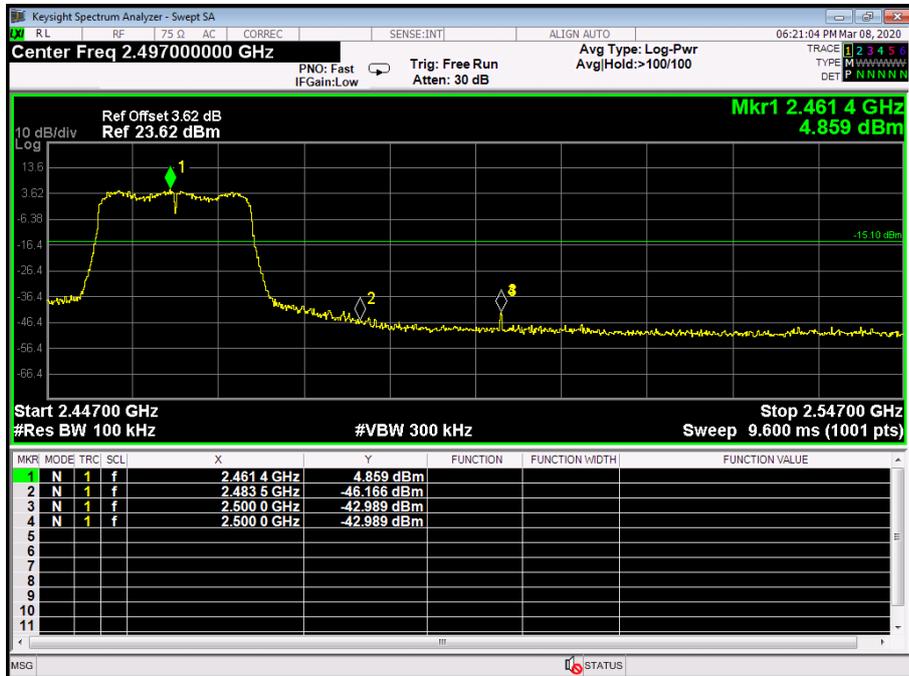
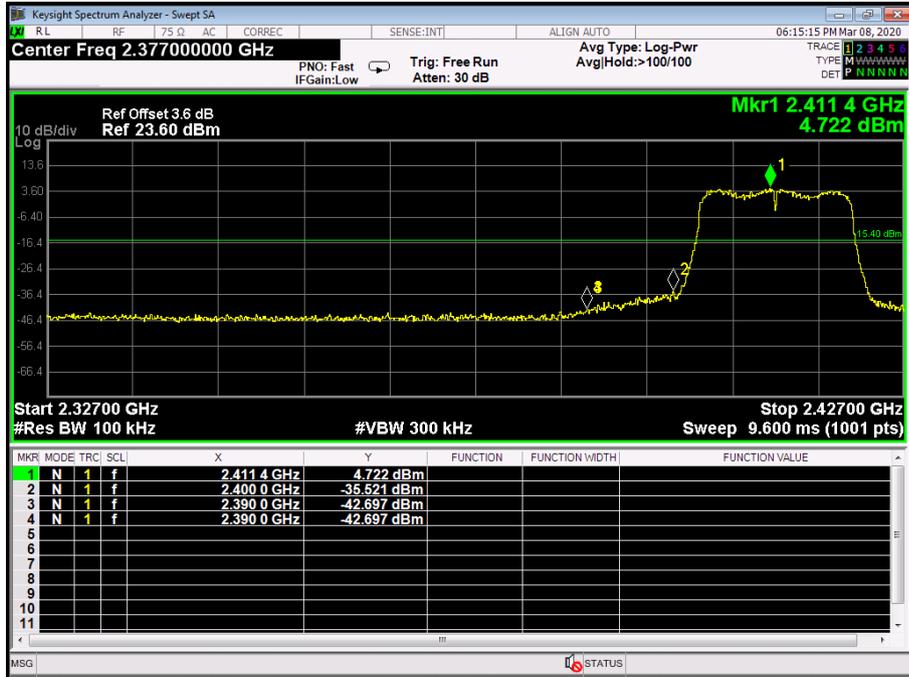
<b>Temperature:</b>	25°C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Test Mode:</b>	TX G Mode 2412MHz / TX G Mode 2462MHz ANT. A		
<b>Remark:</b>	The EUT is programmed in continuously transmitting mode		



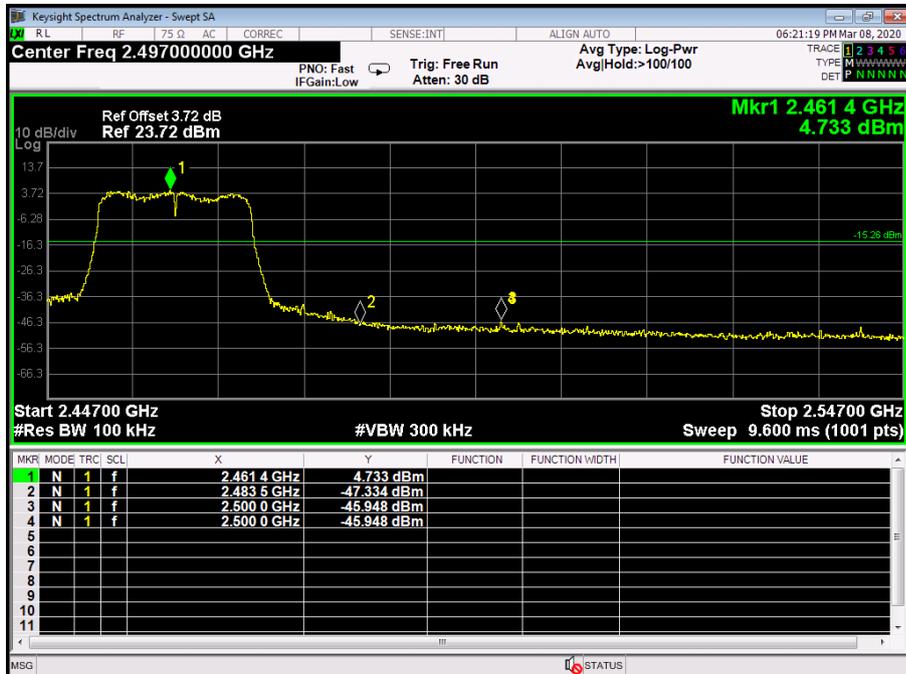
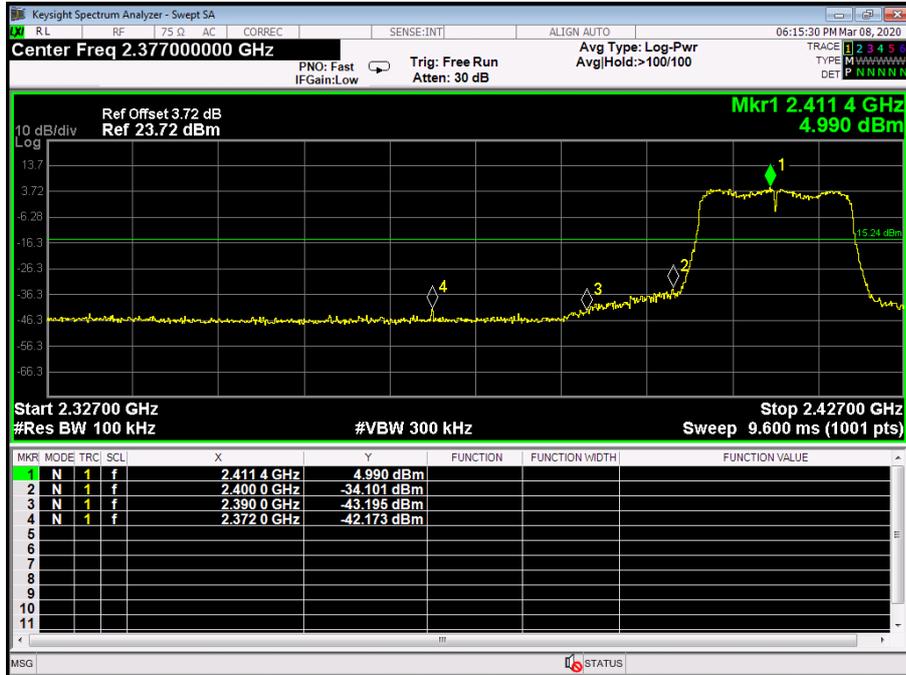
<b>Temperature:</b>	25°C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Test Mode:</b>	TX G Mode 2412MHz / TX G Mode 2462MHz ANT. B		
<b>Remark:</b>	The EUT is programmed in continuously transmitting mode		



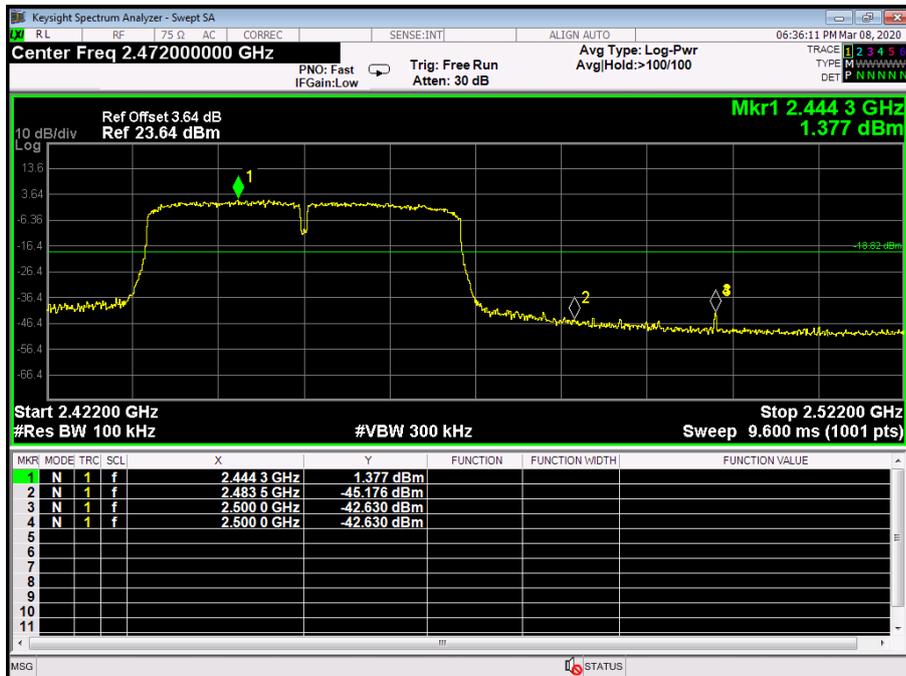
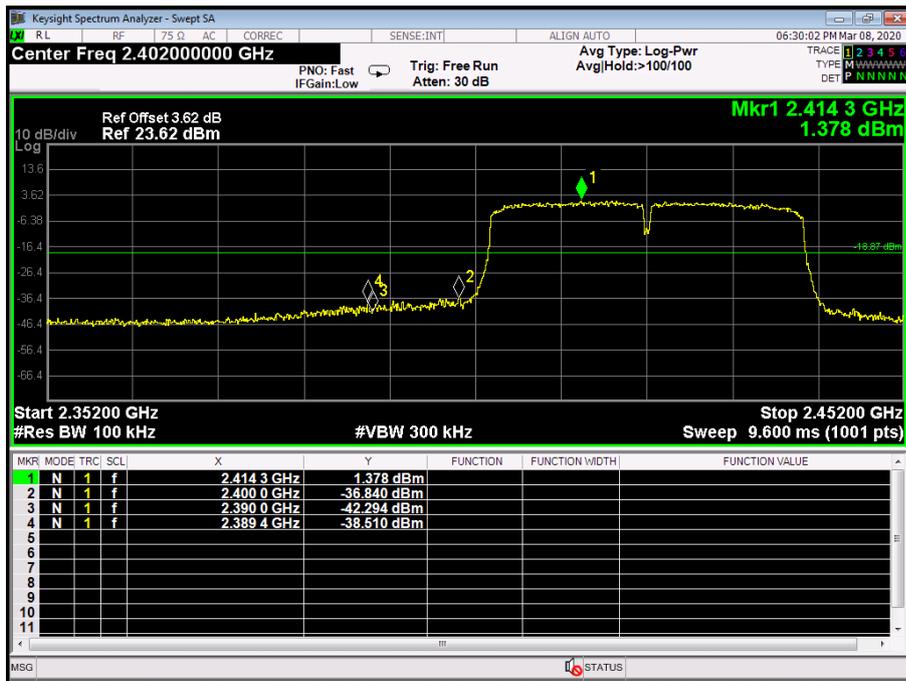
<b>Temperature:</b>	25°C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Test Mode:</b>	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz ANT. A		
<b>Remark:</b>	The EUT is programmed in continuously transmitting mode		



<b>Temperature:</b>	25°C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60HZ		
<b>Test Mode:</b>	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz ANT. B		
<b>Remark:</b>	The EUT is programmed in continuously transmitting mode		



Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz ANT. A		
Remark:	The EUT is programmed in continuously transmitting mode		



Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz ANT. B		
Remark:	The EUT is programmed in continuously transmitting mode		

