


# FCC Radio Test Report

## FCC ID: NDD9564881702

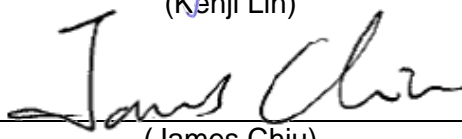
This report concerns (check one): ☒ Original Grant ☐ Class I Change ☐ Class II Change

**Project No.** : 1703214  
**Equipment** : Dualband WiFi Router  
**Test Model** : BR-6488ACL  
**Series Model** : BR-6488AC, RG12S, EW-7488AC, EW-7488WAP, RG12, RE12S, RE12, RG15S, RG15, RE15S, RE15  
**Applicant** : EDIMAX TECHNOLOGY CO., LTD.  
**Address** : No.278, Xinhua 1st Rd., Neihu Dist., Taipei City, Taiwan  
  
**Date of Receipt** : Apr. 28, 2017  
**Date of Test** : Apr. 28, 2017 ~ Nov. 28, 2017  
**Issued Date** : Nov. 29, 2017  
**Tested by** : BTL Inc.

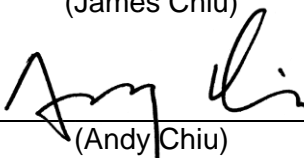
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### **Limitation**

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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## REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1703214	Original Issue.	Nov. 29, 2017

## 1. CERTIFICATION

Equipment : Dualband WiFi Router  
Brand Name : EDIMAX  
Test Model : BR-6488ACL  
Series Model : BR-6488AC, RG12S, EW-7488AC, EW-7488WAP, RG12, RE12S, RE12, RG15S, RG15, RE15S, RE15  
Applicant : EDIMAX TECHNOLOGY CO., LTD.  
Manufacturer : EDIMAX TECHNOLOGY CO., LTD.  
Address : No.278, Xinhua 1st Rd., Neihu Dist., Taipei City, Taiwan  
Date of Test : Apr. 28, 2017 ~ Nov. 28, 2017  
Test Sample : Engineering Sample  
Standard(s) : FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013

The above equipment has been tested and found in compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1703214) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

**Test results included in this report is only for the 2.4G WIFI part.**

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C			
Standard(s) Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(b)(3)	Peak Output Power	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	
15.247(d)/ 15.205/ 15.209	Transmitter Radiated Emissions	PASS	

### NOTE:

(1) "N/A" denotes test is not applicable in this test report.

## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

### Conducted emission Test:

**C05:** (VCCI RN: C-4742; FCC RN:965108; FCC DN:TW1082)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

### Radiated emission Test (Below 1 GHz):

**CB15:** (FCC RN:674415; FCC DN:TW0659)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

### Radiated emission Test (Above 1 GHz):

**CB15:** (FCC RN:674415; FCC DN:TW0659)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

## 2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2  $U_{\text{CISPR}}$  requirement.

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 %.

### A. Conducted emission test:

Test Site	Method	Measurement Frequency Range	U,(dB)
C05	CISPR	150 kHz ~ 30MHz	3.06

### B. Radiated emission test:

Test Site	Method	Measurement Frequency Range	U,(dB)
CB15 (3m)	CISPR	9kHz ~ 150kHz	2.96
		150kHz ~ 30MHz	2.74

Test Site	Method	Measurement Frequency Range	Ant.	U,(dB)
CB15 (3m)	CISPR	30MHz ~ 200MHz	V	4.76
		30MHz ~ 200MHz	H	4.28
		200MHz ~ 1,000MHz	V	5.08
		200MHz ~ 1,000MHz	H	4.50

Test Site	Method	Measurement Frequency Range	Ant.	U,(dB)
CB15 (3m)	CISPR	1GHz ~ 6GHz	V	4.48
		1GHz ~ 6GHz	H	4.50
		6GHz ~ 18GHz	V	4.30
		6GHz ~ 18GHz	H	4.14

Test Site	Method	Measurement Frequency Range	U,(dB)
CB15 (1m)	CISPR	18 ~ 26.5 GHz	4.72
		26.5 ~ 40 GHz	5.20



### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Dualband WiFi Router	
Brand Name	EDIMAX	
Test Model	BR-6488ACL	
Series Model	BR-6488AC, RG12S, EW-7488AC, EW-7488WAP, RG12, RE12S, RE12, RG15S, RG15, RE15S, RE15	
Model Difference	Different model distribute to different area.	
Product Description	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM
	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 300 Mbps
	Output Power (Max.) Non-Beamforming	802.11b: 19.79dBm 802.11g: 29.58dBm 802.11n(20MHz): 29.44dBm 802.11n(40MHz): 27.96dBm
	Output Power (Max.) Beamforming	802.11n(20MHz): 29.12dBm 802.11n(40MHz): 28.86dBm
Power Source	DC Voltage supplied from AC/DC adapter. APD/WB-18D12FU	
Power Rating	I/P:100-240V~50-60Hz 0.9A Max. O/P: DC 12V --- 1.5A	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. It contains 8M and 16M flash.
3. Channel List:

CH01 – CH11 for 802.11b, 802.11g, 802.11n(20MHz) CH03 – CH09 for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

#### 4. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	Master Wave	98202PIPF000	Dipole	IPEX	3.86	NA
2	Master Wave	98202PIPF001	Dipole	IPEX	3.83	NA

Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R) and employs Cyclic Delay Diversity (CDD).

(2) In CDD mode,

For power spectral density:

Directional gain (dBi) =

$$10 \cdot \log\{[10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_n/20}]^2 / N_{ANT}\} = 6.86 \text{ dBi} > 6 \text{ dBi}.$$

$$\text{The reduced power spectral density limits (dBm/MHz)} = 8 - (6.86 - 6) = 7.14$$

For conducted power:

For  $N_{ANT} = 2 < 5$ ,

$$\text{Directional gain (dBi)} = G_{ANT} + 0 = 3.86 + 0 = 3.86$$

The Directional gain is less than 6, so conducted power limits will not be reduced.

(3) In Beamforming mode,

For conducted power:

$$\text{Directional gain(dBi)} = G_{ANT \text{ MAX}} + 10 \log(N_{ANT}/N_{SS}) = 3.86 + 3.01 = 6.87 \text{ dBi} > 6 \text{ dBi}$$

$$\text{The reduced power limit(dBm)} = 30 - (6.87 - 6) = 29.13$$

(4) The EUT(N mode) with beamforming function.

Operating Mode TX Mode	2TX
802.11b	V (ANT 1+ANT 2)
802.11g	V (ANT 1+ANT 2)
802.11n(20MHz)	V (ANT 1+ANT 2)
802.11n(40MHz)	V (ANT 1+ANT 2)

### 3.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09
Mode 5	Normal Link

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 5	Normal Link

For Radiated Test	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

For Band Edge Test	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

6dB Spectrum Bandwidth	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

Maximum Conducted Output Power	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

Power Spectral Density	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)  
 802.11g mode: OFDM (6Mbps)  
 802.11n HT20 mode : BPSK (13Mbps)  
 802.11n HT40 mode : BPSK (27Mbps)  
 For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11n(20MHz)\_Beamforming is found to be the worst case and recorded.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

### 3.3 TABLE OF PARAMETERS OF TEXT 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

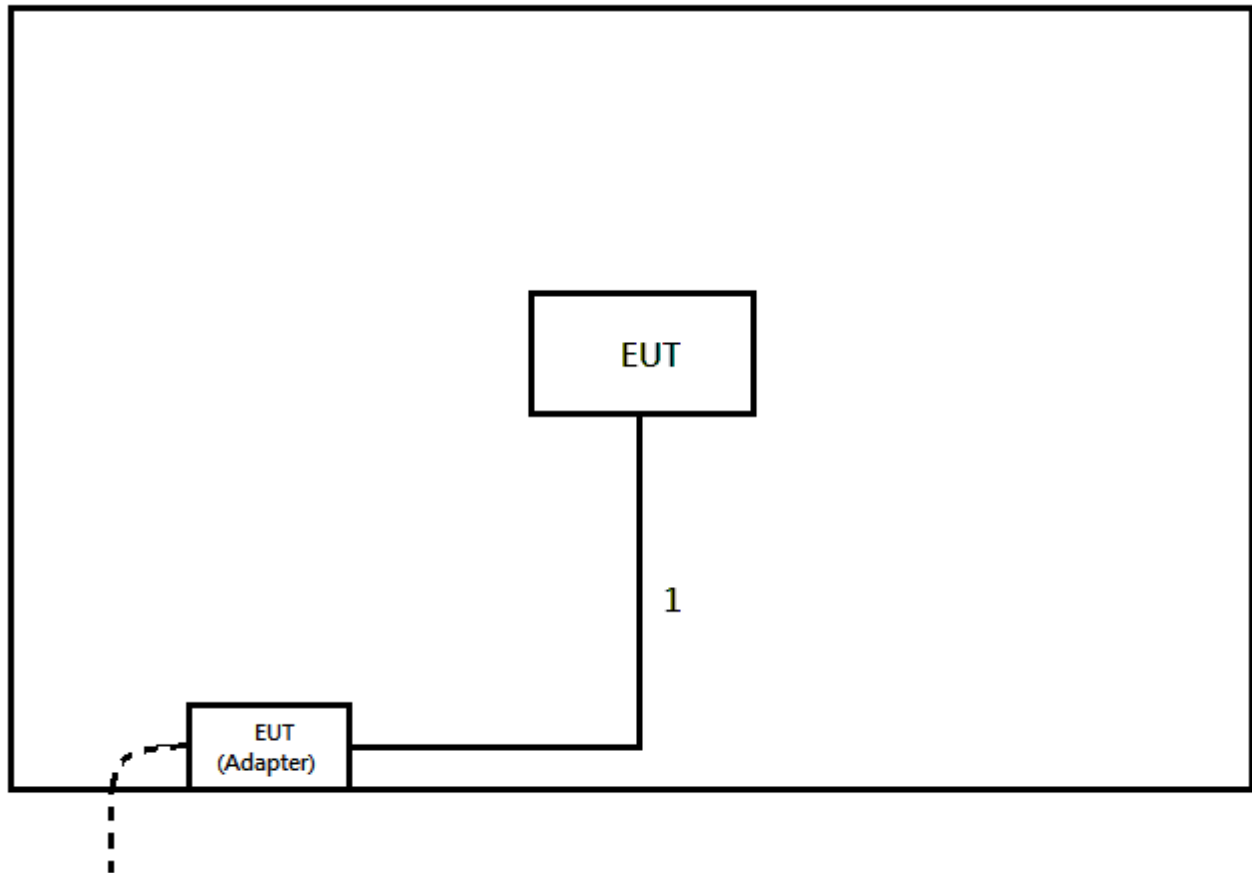
#### Non-Beamforming

Test software version	RTL819X 3.4		
Frequency (MHz)	2412	2437	2462
802.11b	38.38	39.39	39.39
802.11g	45,45	54,54	50,50
802.11n (20MHz)	45,45	55,55	49,49
Frequency	2422	2437	2452
802.11n (40MHz)	41,41	46,46	46,46

#### Beamforming

Test software version	RTL819X 3.4		
Frequency (MHz)	2412	2437	2462
802.11n (20MHz)	42,42	52,52	46,46
Frequency	2422	2437	2452
802.11n (40MHz)	38,38	43,43	43,43

### 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



### 3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
-	-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	N0	No	1.2m	Power Cable

## 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 -0.50	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

- (1) The limit of " \* " decreases with the logarithm of the frequency
- (2) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)  
 Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

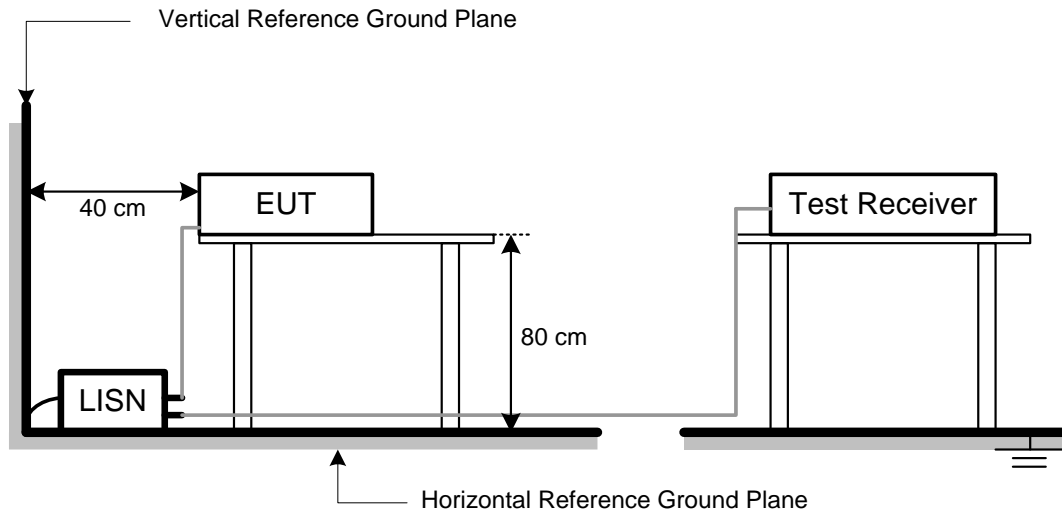
#### 4.1.2 TEST PROCEDURE

- a. 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.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.4 TEST SETUP



#### 4.1.5 EUT OPERATING CONDITIONS

The EUT was placed on the test table and programmed in normal function.

#### 4.1.6 EUT TEST CONDITIONS

Temperature: 25°C    Relative Humidity: 55%    Test Voltage: AC 120V/60Hz

#### 4.1.7 TEST RESULTS

Please refer to the Attachment A.



## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

#### LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency (MHz)	Field Strength (microvolts/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
960~1000	500	3

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
	PEAK	AVERAGE
Above 1000	74	54

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)  
 Margin Level = Measurement Value - Limit Value

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

#### 4.2.2 TEST PROCEDURE

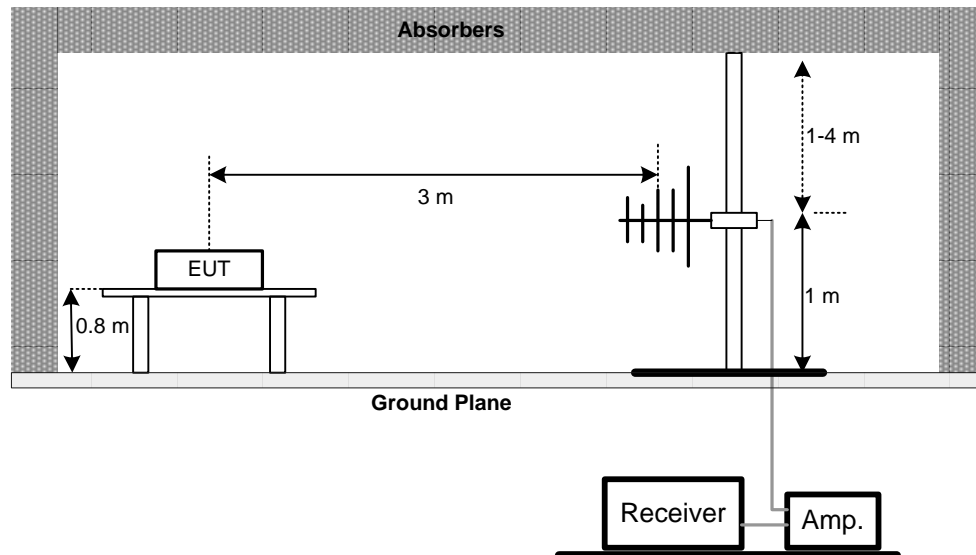
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.2.3 DEVIATION FROM TEST STANDARD

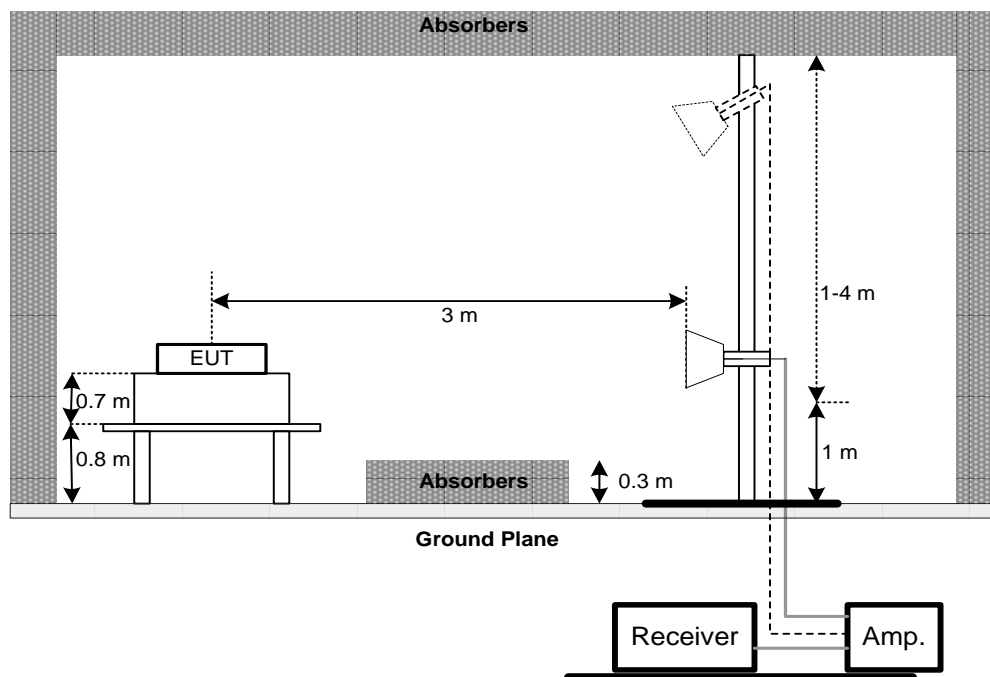
No deviation

#### 4.2.4 TEST SETUP

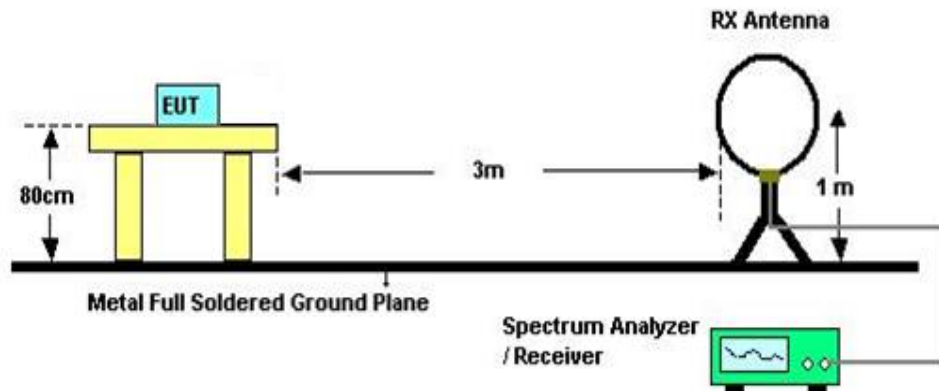
##### (A) Radiated Emission Test Set-Up Frequency Below 1 GHz



##### (B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(C) For Radiated Emissions Below 30MHz



#### 4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 4.2.6 EUT TEST CONDITIONS

Temperature: 23°C    Relative Humidity: 70%    Test Voltage: AC 120V/60Hz

#### 4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

#### 4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

#### 4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.  
For fundamental signal judgment was referred to Peak output test.

## 5. BANDWIDTH TEST

### 5.1 APPLIED PROCEDURES

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	2400-2483.5	PASS

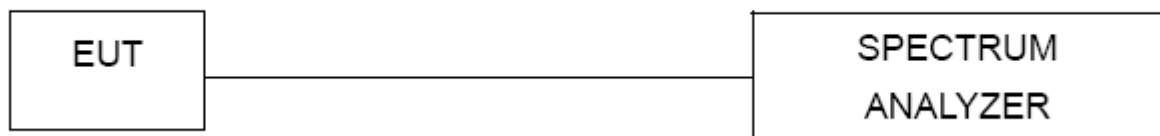
#### 5.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP



#### 5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 5.1.5 EUT TEST CONDITIONS

Temperature: 25°C    Relative Humidity: 55%    Test Voltage: AC 120V/60Hz

#### 5.1.6 TEST RESULTS

Please refer to the Attachment E.

## 6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

## 6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm	2400-2483.5	PASS

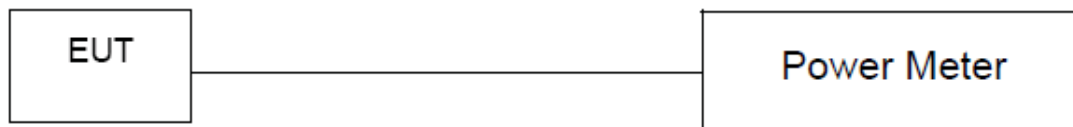
### 6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance and FCC KDB 662911 D01 Multiple Transmitter Output.

### 6.1.2 DEVIATION FROM STANDARD

No deviation.

### 6.1.3 TEST SETUP



#### 6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 6.1.5 EUT TEST CONDITIONS

Temperature: 25°C    Relative Humidity: 55%    Test Voltage: AC 120V/60Hz

### 6.1.6 TEST RESULTS

Please refer to the Attachment F.

## 7. ANTENNA CONDUCTED SPURIOUS EMISSION

### 7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

#### 7.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.
- Offset=antenna gain+cable loss

#### 7.1.2 DEVIATION FROM STANDARD

No deviation.

#### 7.1.3 TEST SETUP



#### 7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 7.1.5 EUT TEST CONDITIONS

Temperature: 25°C    Relative Humidity: 55%    Test Voltage: AC 120V/60Hz

#### 7.1.6 TEST RESULTS

Please refer to the Attachment G.

## 8. POWER SPECTRAL DENSITY TEST

### 8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

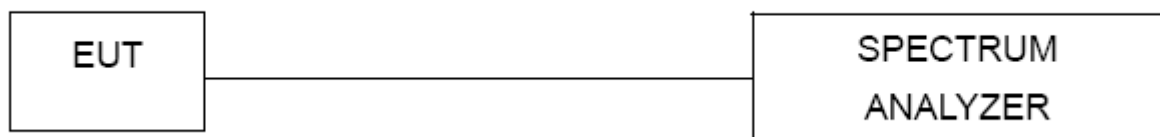
#### 8.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW=3KHz, VBW=10KHz, Sweep time = Auto.

#### 8.1.2 DEVIATION FROM STANDARD

No deviation.

#### 8.1.3 TEST SETUP



#### 8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 8.1.5 EUT TEST CONDITIONS

Temperature: 25°C    Relative Humidity: 55%    Test Voltage: AC 120V/60Hz

#### 8.1.6 TEST RESULTS

Please refer to the Attachment H.



## 9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	Jan. 25, 2018
2	Test Cable	TIMES	CFD300-NL	C02	Jun. 15, 2017
3	EMI Test Receiver	R&S	ESR7	101433	Dec. 09, 2017
4	Measurement Software	EZ	EZ EMC (Version NB-03A)	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Preamplifier	EMCI	012645B	980267	Feb. 28, 2018
2	Preamplifier	EMCI	EMC02325	980217	Dec. 29, 2017
3	Preamplifier	EMCI	EMC2654045	980030	Feb.14, 2018
4	Test Cable	EMCI	EMC104-SM-S M-8000	8m	Jan. 04, 2018
5	Test Cable	EMCI	EMC104-SM-S M-800	150207	Jan. 04, 2018
6	Test Cable	EMCI	EEMC104-SM-S M-3000	151205	Jan. 04, 2018
7	MXE EMI Receiver	Agilent	N9038A	MY5542012 7	Jan. 09, 2018
8	Signal Analyzer	Agilent	N9010A	MY5222099 0	Feb. 22, 2018
9	Loop Ant	EMCO	6502	42960	Nov. 24, 2017
10	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	Feb. 28, 2018
11	Horn Ant	Schwarzbeck	BBHA 9170	187	May 11, 2018
12	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-548	Jan. 16, 2018
13	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0623	Jan. 16, 2018

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	R&S/FSP30	100854	May 26, 2017

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	R&S/FSP30	100854	May 25, 2018
2	Power Meter	Anritsu	ML2495A	1128008	Aug. 17, 2017
3	Power Sensor	Anritsu	MA2411B	1126001	Aug. 17, 2017

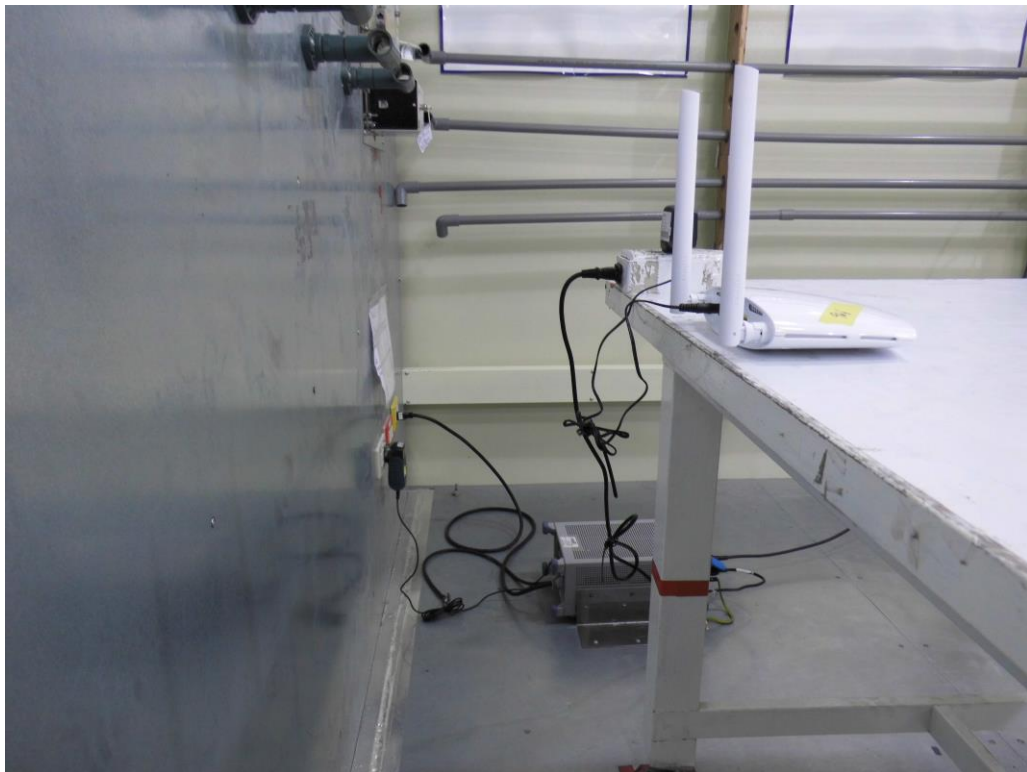
Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	R&S/FSP30	100854	May 26, 2017

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	R&S/FSP30	100854	May 26, 2017

Remark: "N/A" denotes no model name, serial no. or calibration specified.  
All calibration period of equipment list is one year.

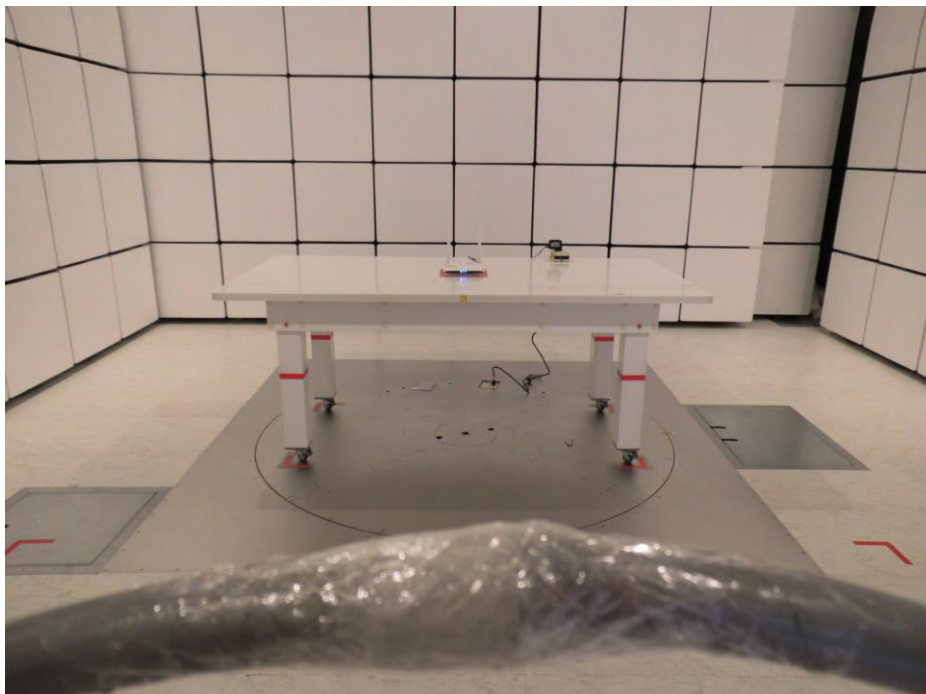
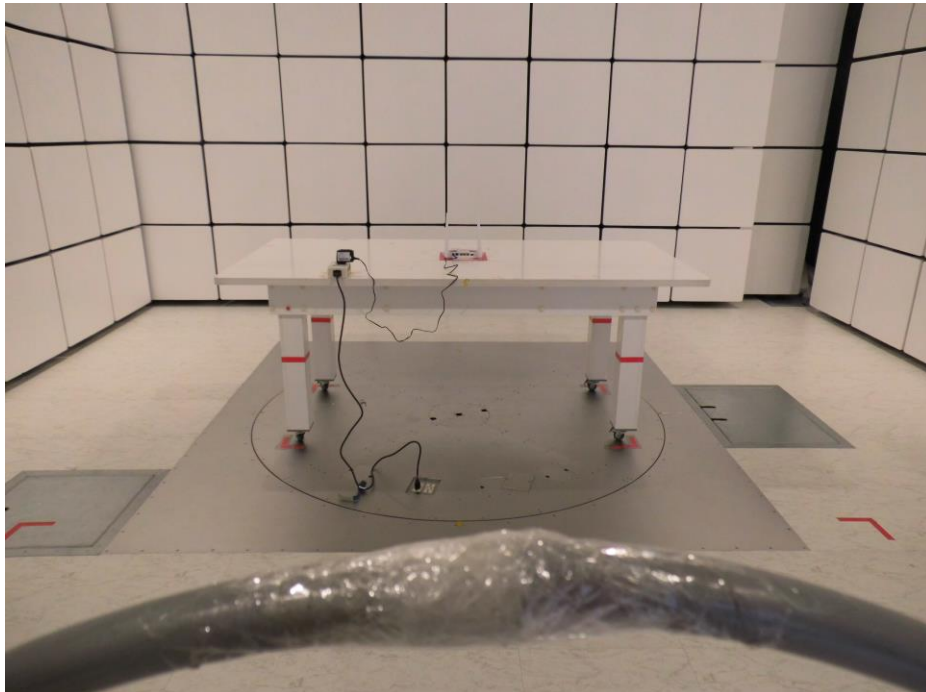
## 10. EUT TEST PHOTO

### Conducted Measurement Photos



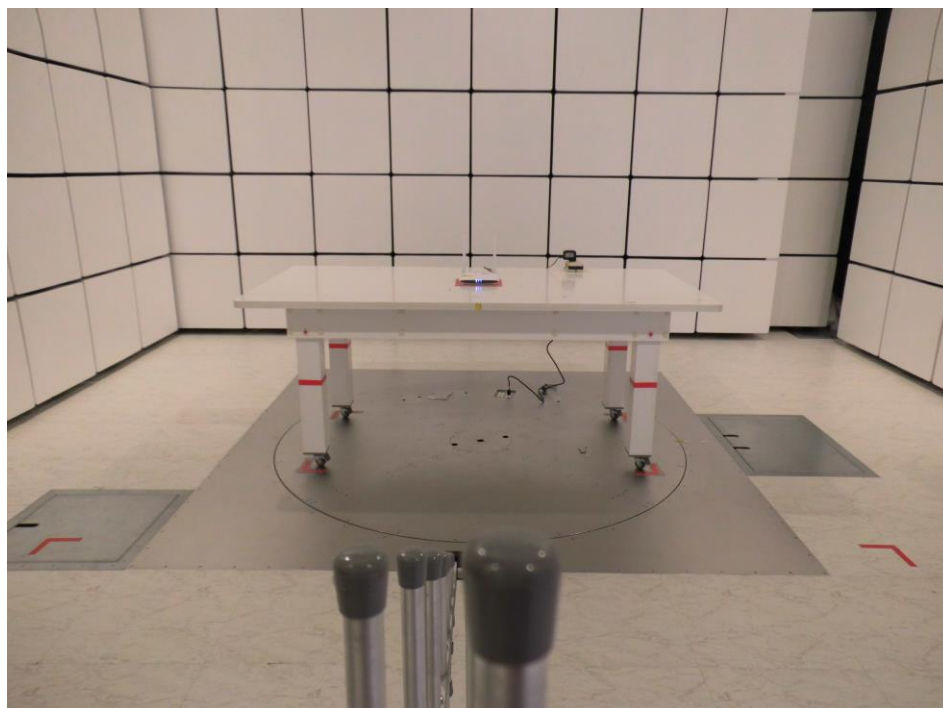
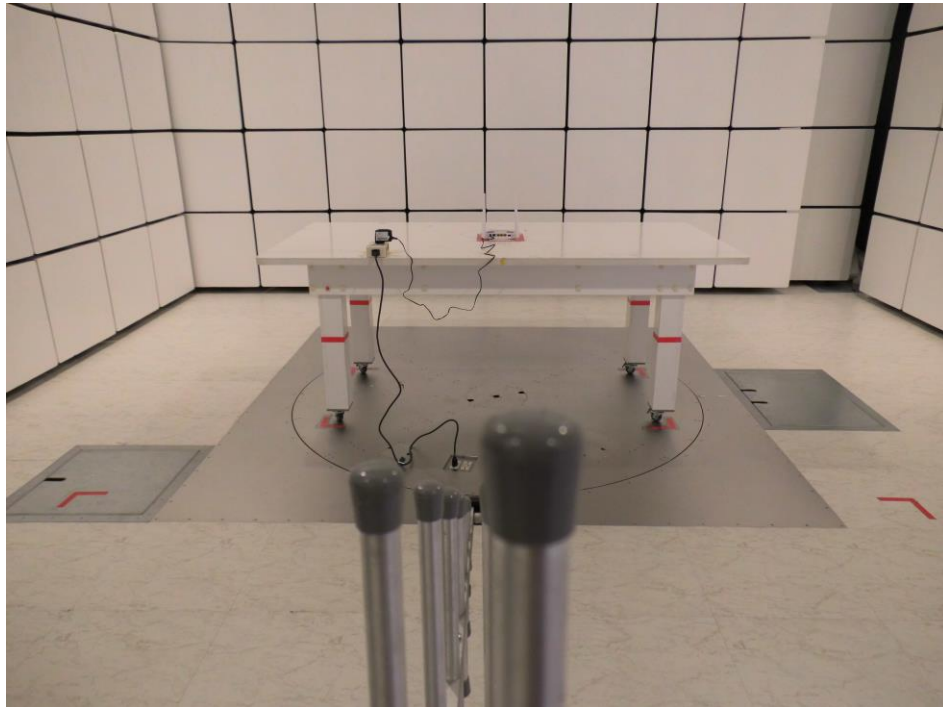
## Radiated Measurement Photos

9KHz to 30MHz



## Radiated Measurement Photos

30MHz to 1000MHz





## Radiated Measurement Photos

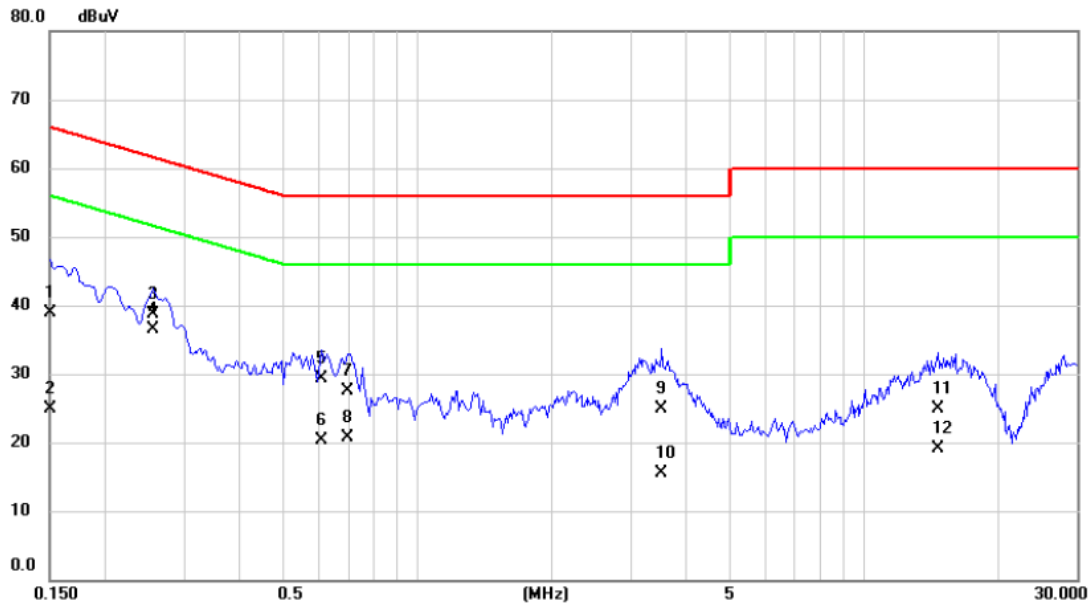
Above 1000MHz



## ATTACHMENT A - CONDUCTED EMISSION

Test Mode : Normal Link

### Line

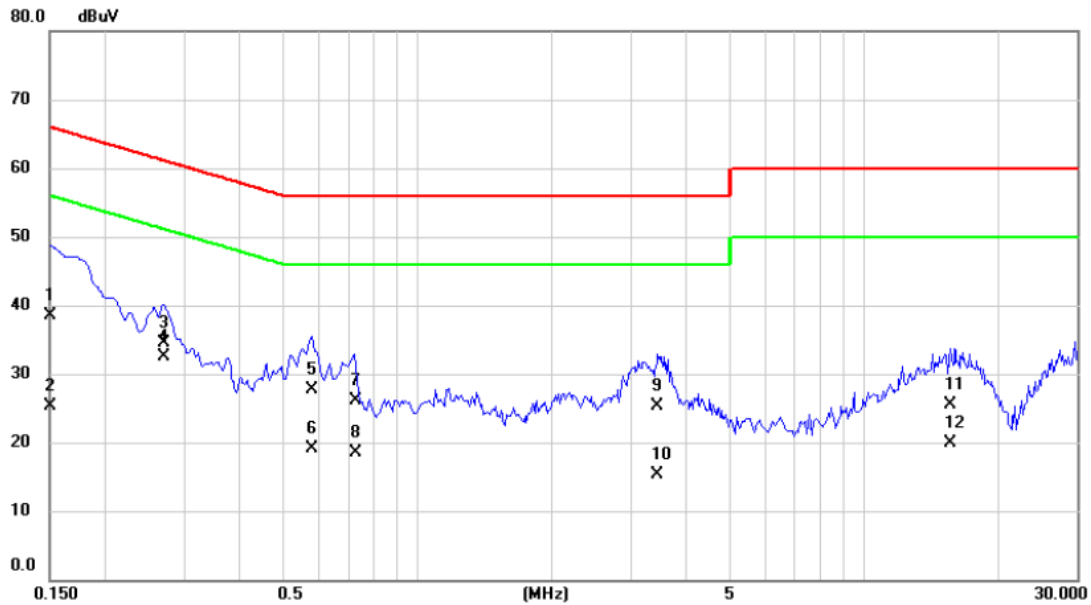


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	29.10	9.76	38.86	66.00	-27.14	QP	
2		0.1500	15.20	9.76	24.96	56.00	-31.04	AVG	
3		0.2556	28.90	9.75	38.65	61.57	-22.92	QP	
4	*	0.2556	26.80	9.75	36.55	51.57	-15.02	AVG	
5		0.6080	19.50	9.77	29.27	56.00	-26.73	QP	
6		0.6080	10.60	9.77	20.37	46.00	-25.63	AVG	
7		0.6980	17.70	9.78	27.48	56.00	-28.52	QP	
8		0.6980	11.00	9.78	20.78	46.00	-25.22	AVG	
9		3.5240	15.00	9.86	24.86	56.00	-31.14	QP	
10		3.5240	5.60	9.86	15.46	46.00	-30.54	AVG	
11		14.6000	14.90	10.00	24.90	60.00	-35.10	QP	
12		14.6000	9.20	10.00	19.20	50.00	-30.80	AVG	



Test Mode : Normal Link

### Neutral

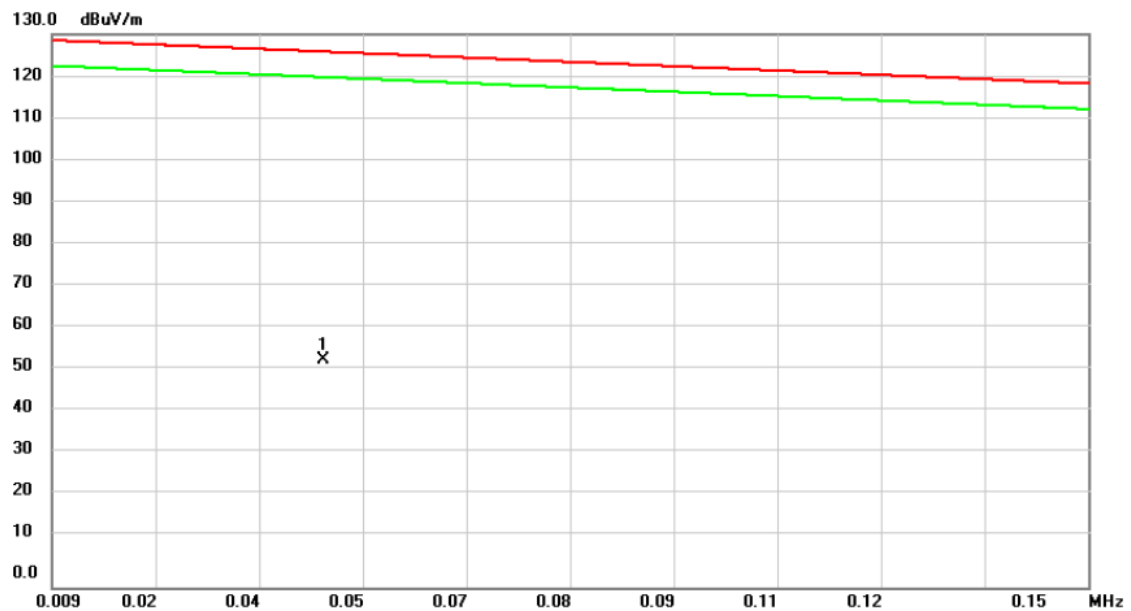


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1507	28.90	9.68	38.58	65.96	-27.38	QP	
2		0.1507	15.70	9.68	25.38	55.96	-30.58	AVG	
3		0.2697	24.90	9.69	34.59	61.13	-26.54	QP	
4	*	0.2697	22.80	9.69	32.49	51.13	-18.64	AVG	
5		0.5810	18.00	9.71	27.71	56.00	-28.29	QP	
6		0.5810	9.40	9.71	19.11	46.00	-26.89	AVG	
7		0.7250	16.30	9.73	26.03	56.00	-29.97	QP	
8		0.7250	8.70	9.73	18.43	46.00	-27.57	AVG	
9		3.4520	15.60	9.80	25.40	56.00	-30.60	QP	
10		3.4520	5.60	9.80	15.40	46.00	-30.60	AVG	
11		15.6500	15.40	10.01	25.41	60.00	-34.59	QP	
12		15.6500	9.90	10.01	19.91	50.00	-30.09	AVG	

## ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)

Test Mode: TX B Mode CHANNEL 01

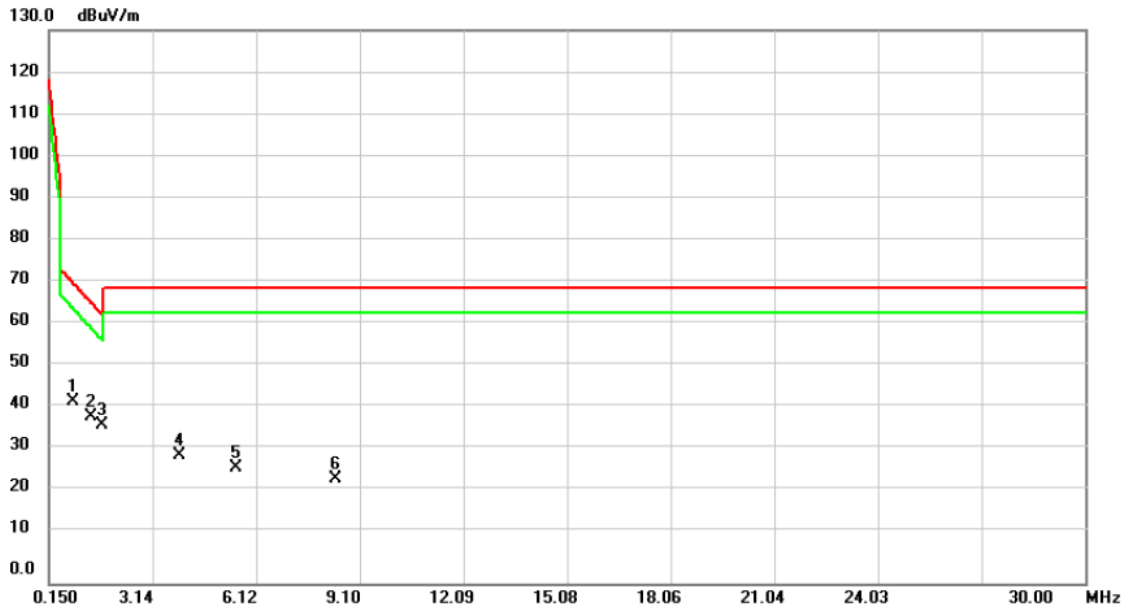
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0460	40.04	13.40	53.44	125.85	-72.41	peak	

Test Mode: TX B Mode CHANNEL 01

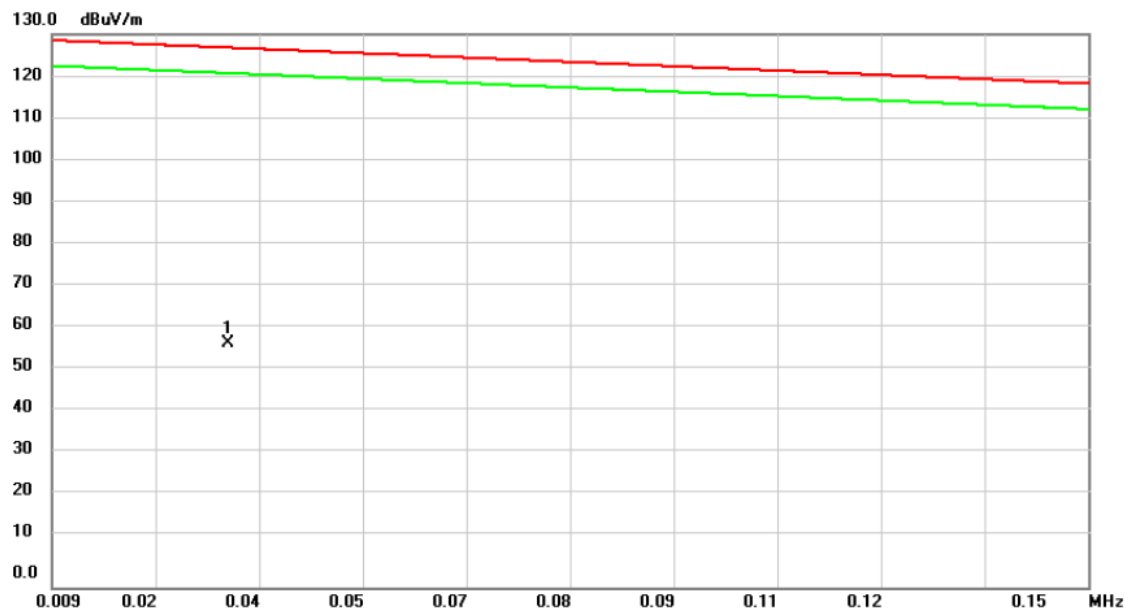
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.8660	30.84	11.95	42.79	70.45	-27.66	peak	
2		1.3440	27.36	11.85	39.21	66.19	-26.98	peak	
3	*	1.7020	25.41	11.68	37.09	63.00	-25.91	peak	
4		3.9110	18.67	11.24	29.91	69.54	-39.63	peak	
5		5.5230	15.90	11.39	27.29	69.54	-42.25	peak	
6		8.4184	13.23	11.33	24.56	69.54	-44.98	peak	

Test Mode:	TX B Mode CHANNEL 01
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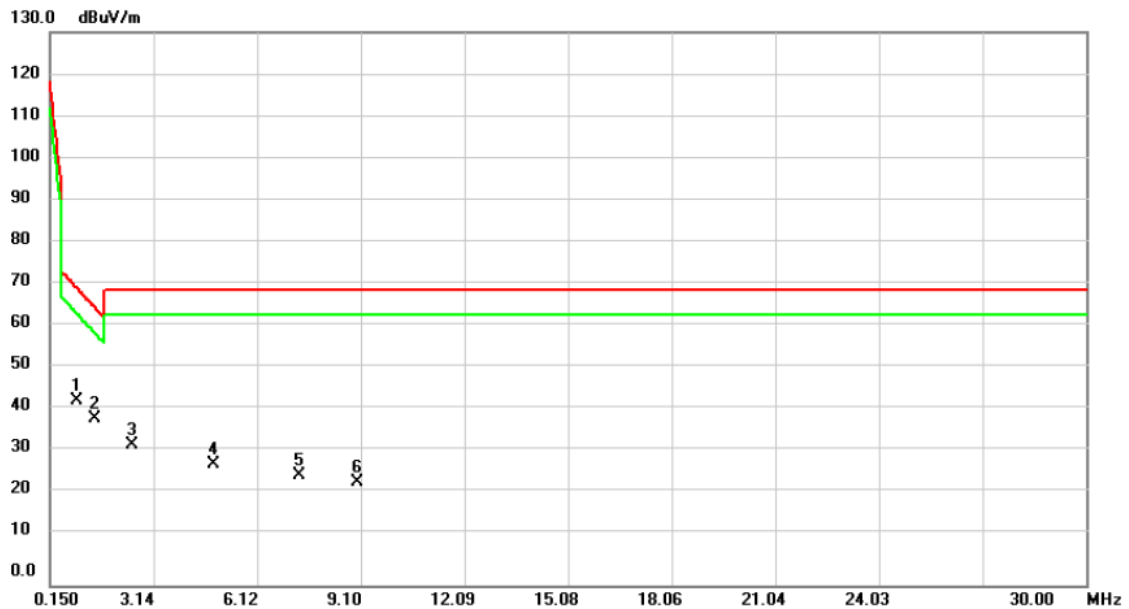
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0330	42.59	14.70	57.29	126.79	-69.50	peak	

Test Mode: TX B Mode CHANNEL 01

Ant 90°



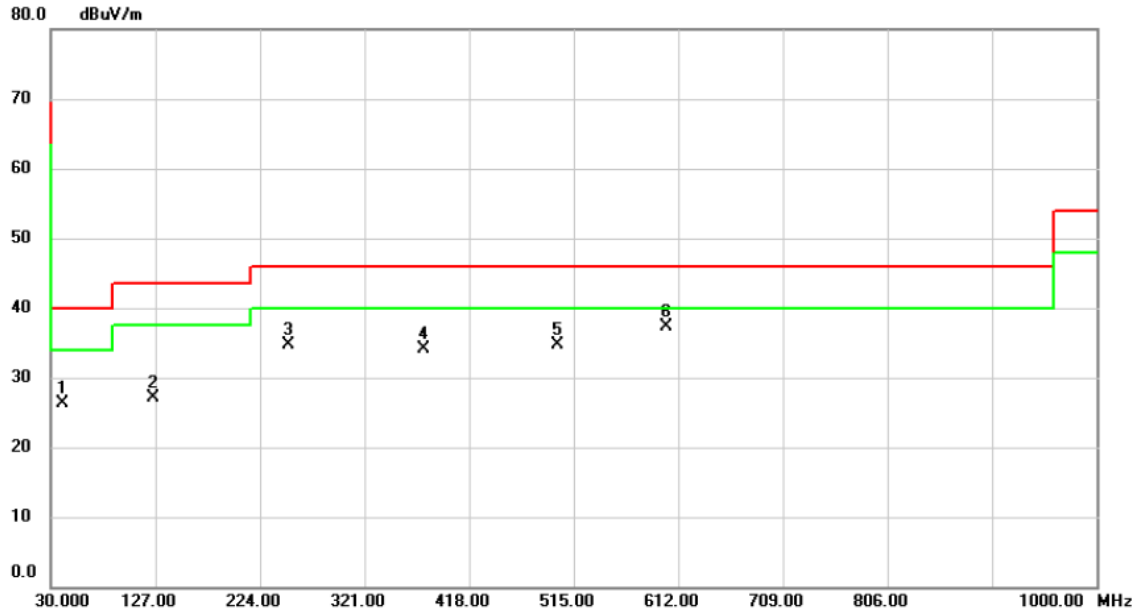
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.9261	31.48	11.97	43.45	69.91	-26.46	peak	
2	*	1.4334	27.49	11.80	39.29	65.39	-26.10	peak	
3		2.5081	21.56	11.32	32.88	69.54	-36.66	peak	
4		4.8662	16.94	11.38	28.32	69.54	-41.22	peak	
5		7.3437	14.47	11.35	25.82	69.54	-43.72	peak	
6		9.0152	12.79	11.32	24.11	69.54	-45.43	peak	

## ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

## Beamforming

Test Mode: TX N-20M Mode 2412MHz

### Vertical

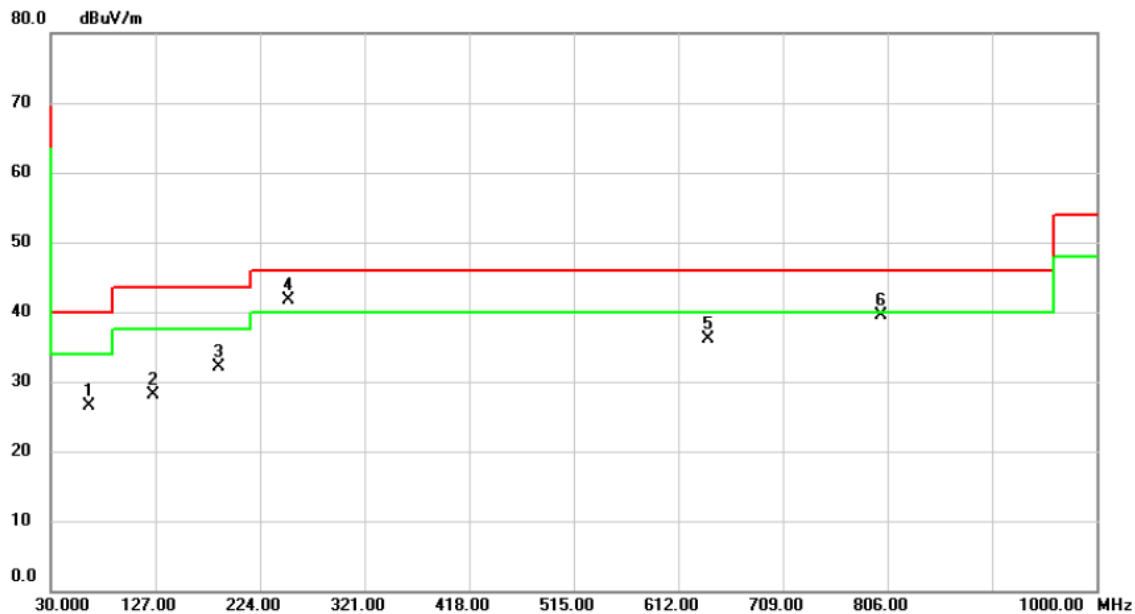


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		40.6700	34.84	-8.51	26.33	40.00	-13.67	peak	
2		125.0600	36.93	-9.87	27.06	43.50	-16.44	peak	
3		250.1900	43.70	-9.07	34.63	46.00	-11.37	peak	
4		375.3200	39.67	-5.58	34.09	46.00	-11.91	peak	
5		500.4500	37.51	-2.72	34.79	46.00	-11.21	peak	
6	*	600.3600	37.70	-0.42	37.28	46.00	-8.72	peak	



Test Mode: TX N-20M Mode 2412MHz

### Horizontal



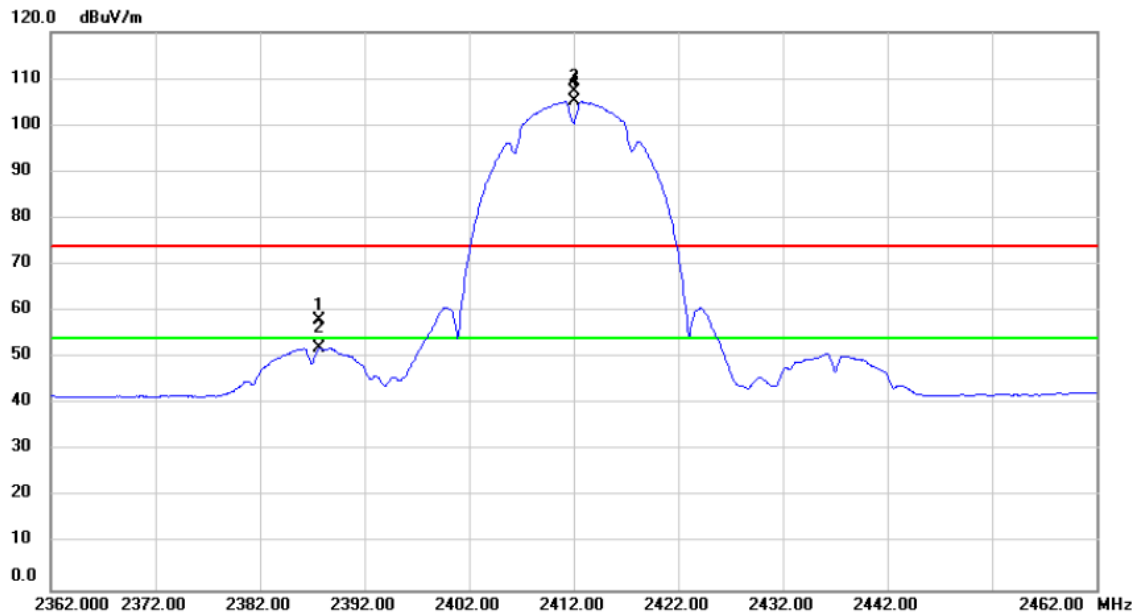
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		64.9200	35.80	-9.37	26.43	40.00	-13.57	peak	
2		125.0600	38.06	-9.87	28.19	43.50	-15.31	peak	
3		185.2000	42.05	-9.99	32.06	43.50	-11.44	peak	
4	*	250.1900	50.70	-9.07	41.63	46.00	-4.37	peak	
5		640.1300	36.14	-0.11	36.03	46.00	-9.97	peak	
6		800.1800	36.98	2.62	39.60	46.00	-6.40	peak	

## ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

## Non-Beamforming

Orthogonal Axis :	X
Test Mode :	TX B Mode 2412MHz

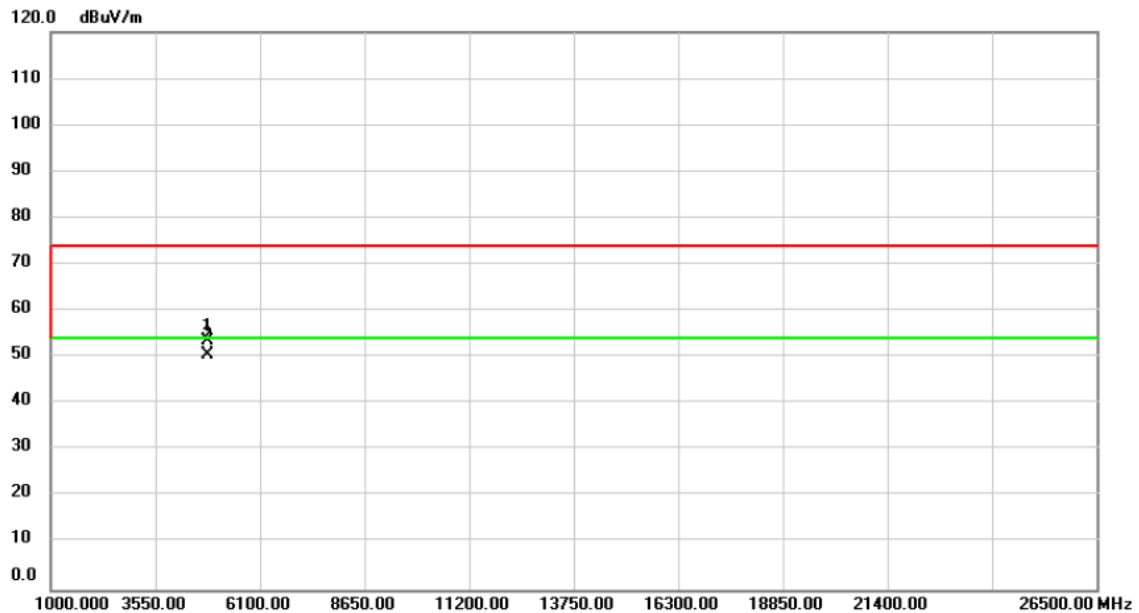
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2387.732	26.95	31.06	58.01	74.00	-15.99	peak	
2		2387.732	21.10	31.06	52.16	54.00	-1.84	AVG	
3	X	2412.000	76.15	31.14	107.29	74.00	33.29	peak	No Limit
4	*	2412.000	74.01	31.14	105.15	54.00	51.15	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX B Mode 2412MHz

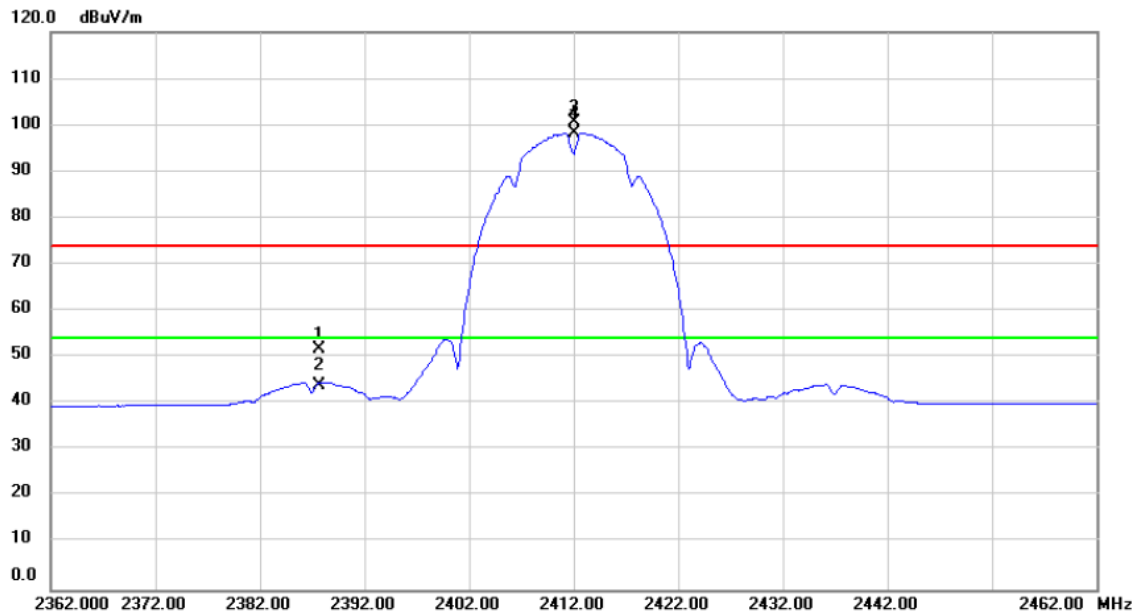
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.000	64.98	-11.37	53.61	74.00	-20.39	peak	
2	*	4824.000	61.84	-11.37	50.47	54.00	-3.53	AVG	

Orthogonal Axis :	X
Test Mode :	TX B Mode 2412MHz

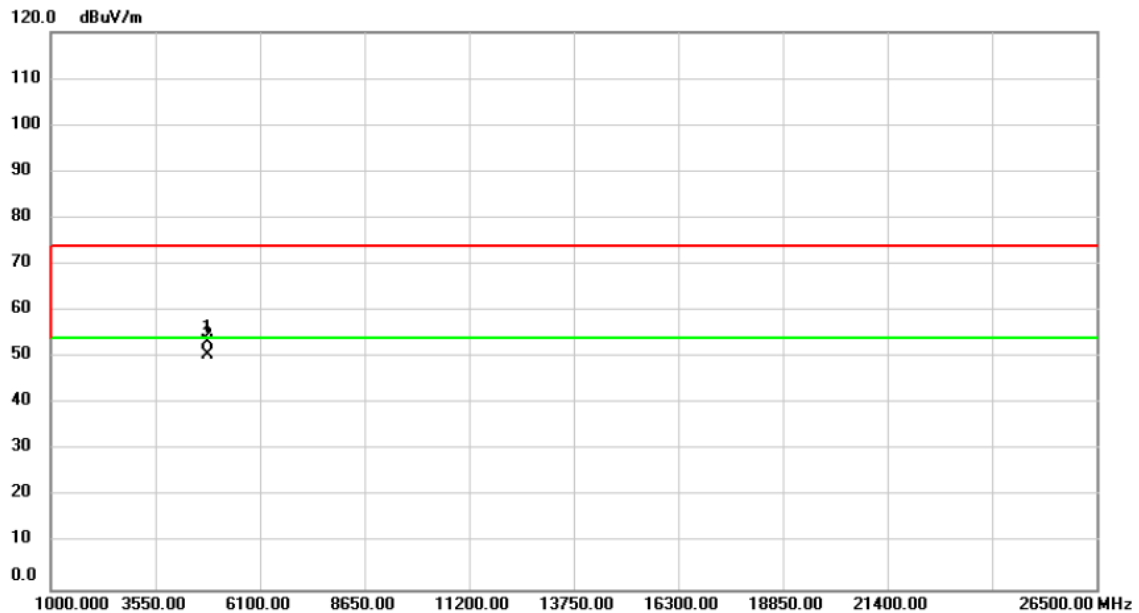
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2387.732	20.55	31.06	51.61	74.00	-22.39	peak	
2		2387.732	12.82	31.06	43.88	54.00	-10.12	AVG	
3	X	2412.000	69.53	31.14	100.67	74.00	26.67	peak	No Limit
4	*	2412.000	67.23	31.14	98.37	54.00	44.37	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX B Mode 2412MHz

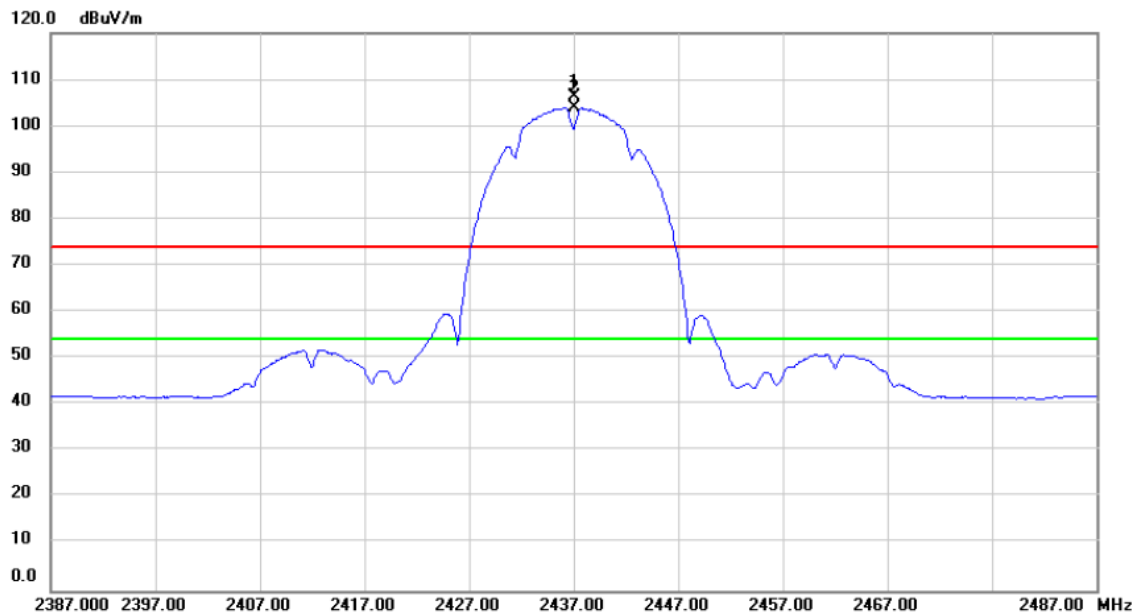
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.000	64.69	-11.37	53.32	74.00	-20.68	peak	
2	*	4824.000	62.05	-11.37	50.68	54.00	-3.32	AVG	

Orthogonal Axis :	X
Test Mode :	TX B Mode 2437MHz

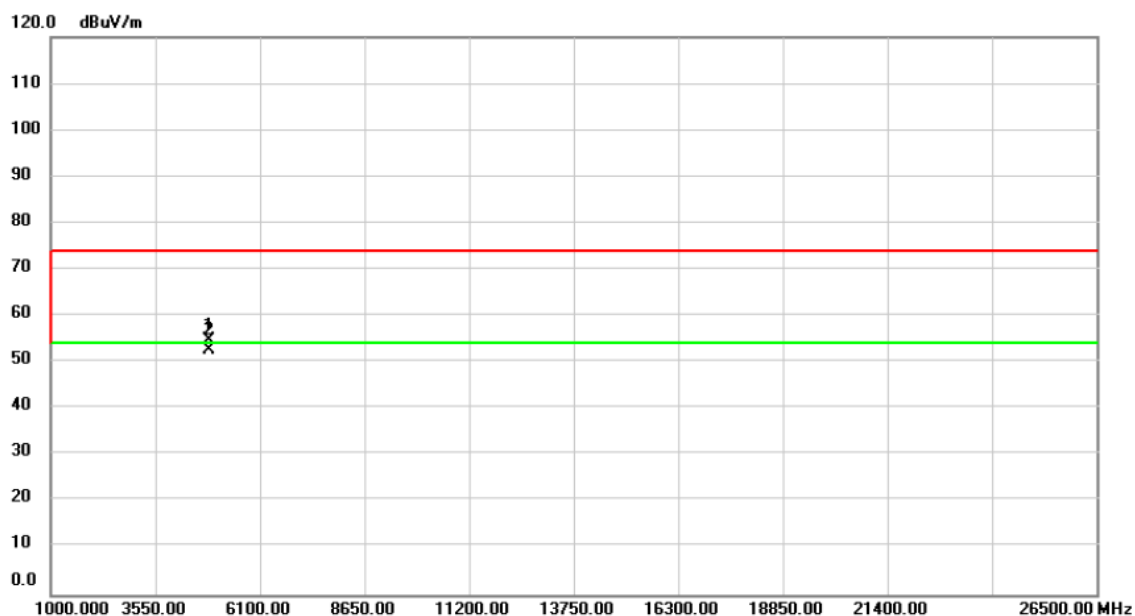
**Vertical**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2437.000	75.09	31.23	106.32	74.00	32.32	peak	No Limit
2	*	2437.000	72.81	31.23	104.04	54.00	50.04	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX B Mode 2437MHz

### Vertical

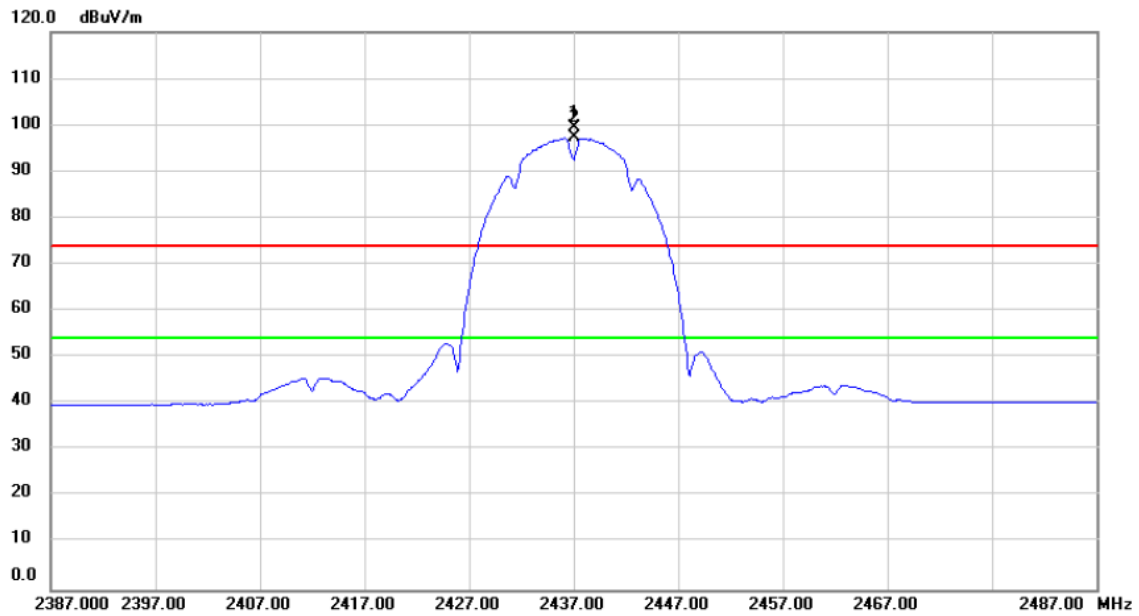


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	66.00	-11.29	54.71	74.00	-19.29	peak	
2	*	4874.000	63.84	-11.29	52.55	54.00	-1.45	AVG	



Orthogonal Axis :	X
Test Mode :	TX B Mode 2437MHz

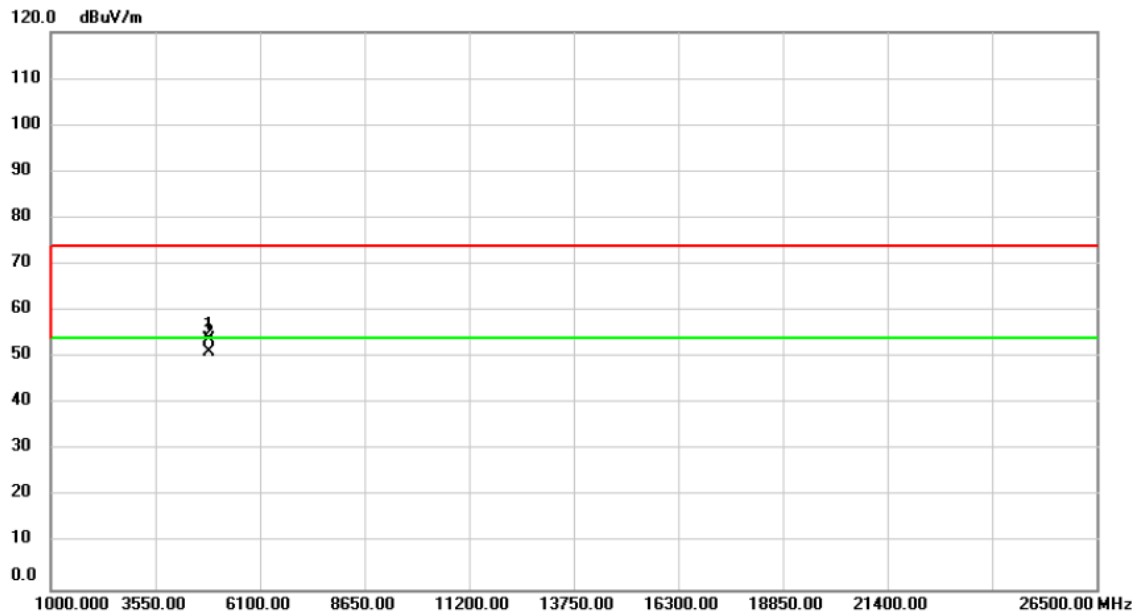
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2437.000	68.23	31.23	99.46	74.00	25.46	peak	No Limit
2	*	2437.000	65.99	31.23	97.22	54.00	43.22	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX B Mode 2437MHz

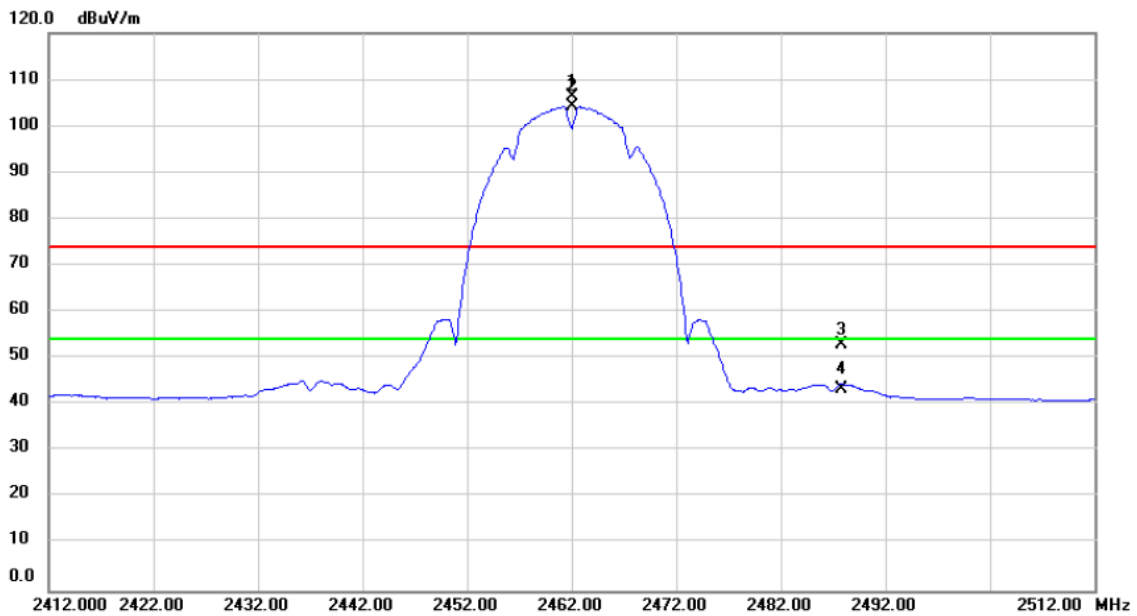
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	65.07	-11.29	53.78	74.00	-20.22	peak	
2	*	4874.000	62.44	-11.29	51.15	54.00	-2.85	AVG	

Orthogonal Axis :	X
Test Mode :	TX B Mode 2462MHz

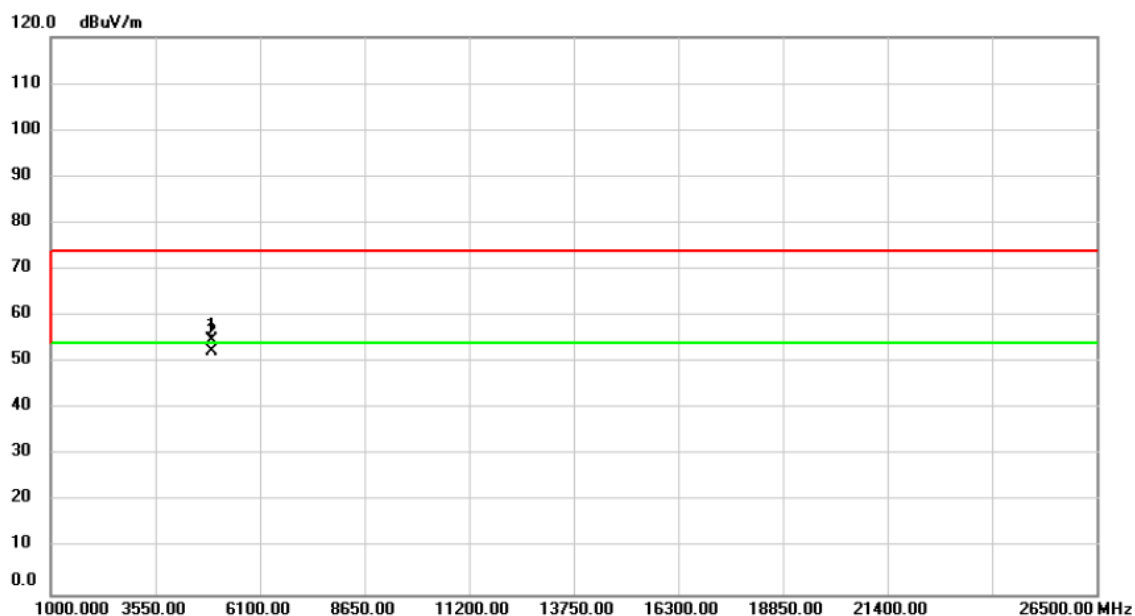
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2462.000	75.10	31.33	106.43	74.00	32.43	peak	No Limit
2	*	2462.000	72.93	31.33	104.26	54.00	50.26	AVG	No Limit
3		2487.775	21.55	31.43	52.98	74.00	-21.02	peak	
4		2487.775	11.94	31.43	43.37	54.00	-10.63	AVG	

Orthogonal Axis :	X
Test Mode :	TX B Mode 2462MHz

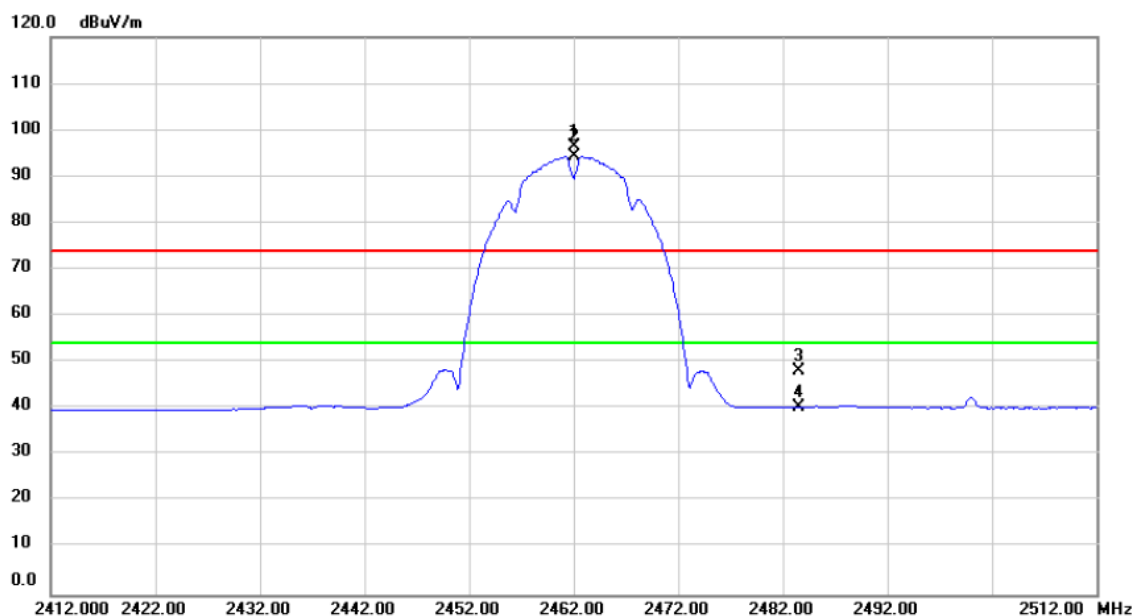
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.000	66.10	-11.22	54.88	74.00	-19.12	peak	
2	*	4924.000	63.63	-11.22	52.41	54.00	-1.59	AVG	

Orthogonal Axis :	X
Test Mode :	TX B Mode 2462MHz

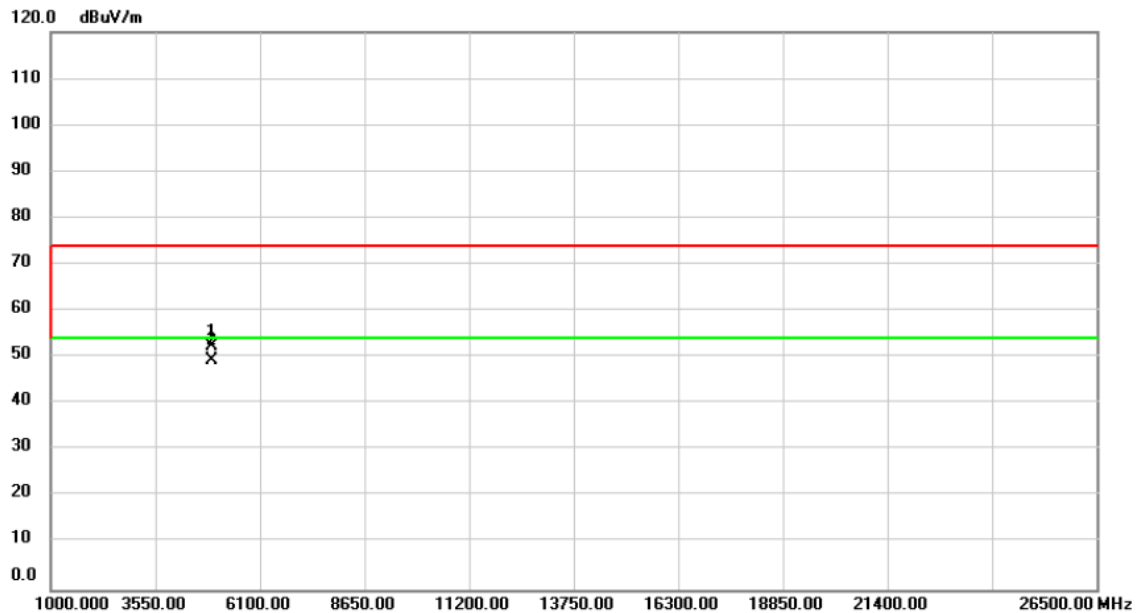
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2462.000	65.17	31.33	96.50	74.00	22.50	peak	No Limit
2	*	2462.000	63.07	31.33	94.40	54.00	40.40	AVG	No Limit
3		2483.500	16.65	31.41	48.06	74.00	-25.94	peak	
4		2483.500	8.93	31.41	40.34	74.00	-33.66	peak	

Orthogonal Axis :	X
Test Mode :	TX B Mode 2462MHz

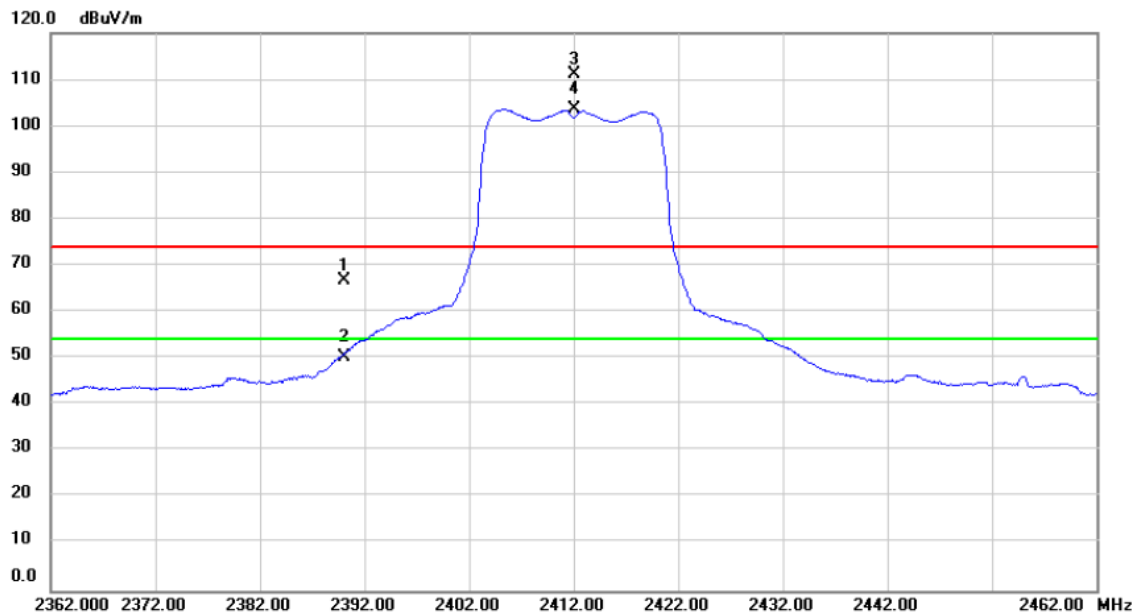
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.000	63.71	-11.22	52.49	74.00	-21.51	peak	
2	*	4924.000	60.42	-11.22	49.20	54.00	-4.80	AVG	

Orthogonal Axis :	X
Test Mode :	TX G Mode 2412MHz

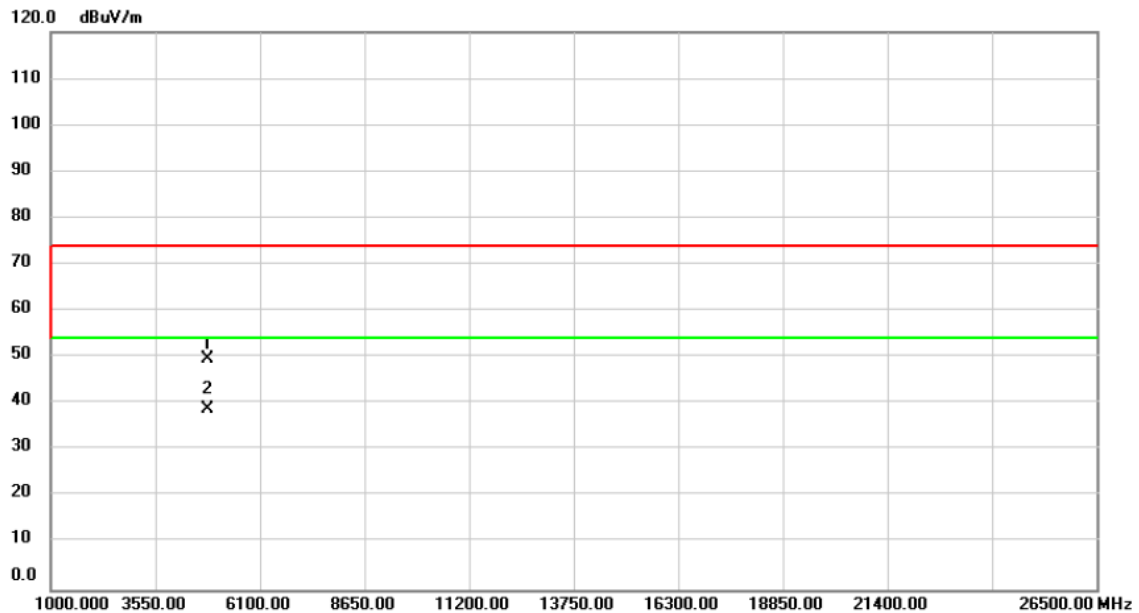
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	35.72	31.06	66.78	74.00	-7.22	peak	
2		2390.000	19.29	31.06	50.35	54.00	-3.65	AVG	
3	X	2412.000	79.95	31.14	111.09	74.00	37.09	peak	No Limit
4	*	2412.000	72.46	31.14	103.60	54.00	49.60	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX G Mode 2412MHz

### Vertical

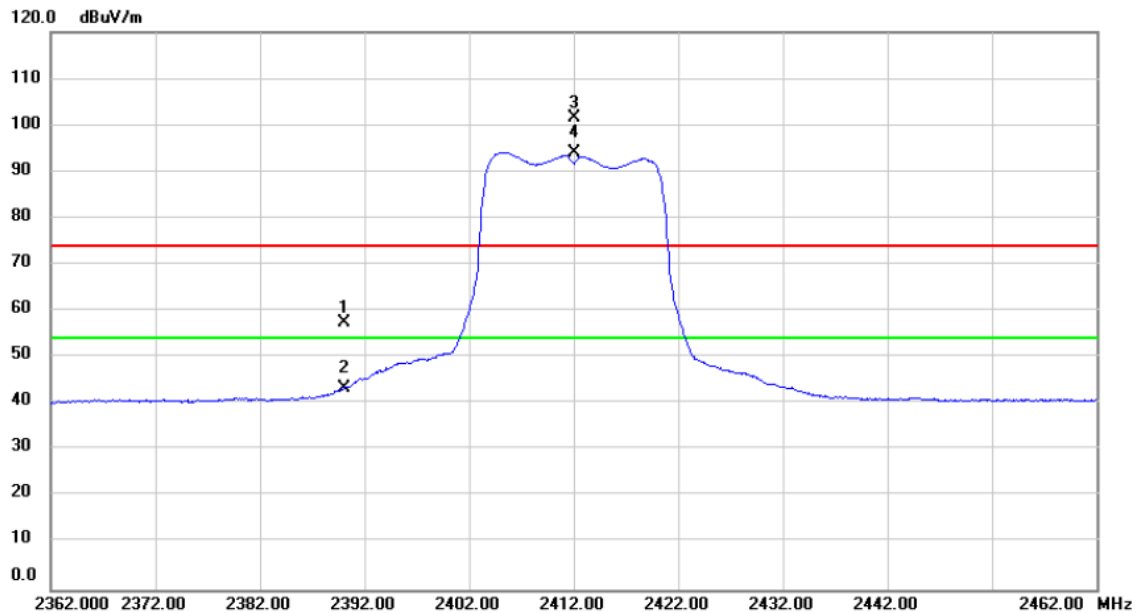


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.000	61.17	-11.37	49.80	74.00	-24.20	peak	
2	*	4824.000	50.36	-11.37	38.99	54.00	-15.01	AVG	



Orthogonal Axis :	X
Test Mode :	TX G Mode 2412MHz

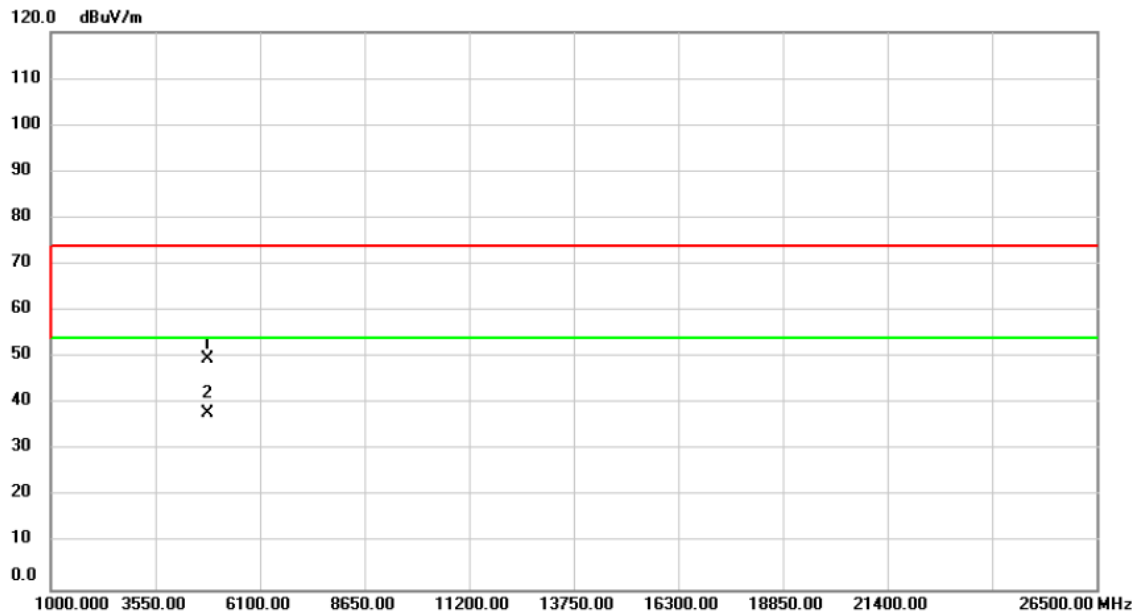
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	26.41	31.06	57.47	74.00	-16.53	peak	
2		2390.000	12.42	31.06	43.48	54.00	-10.52	AVG	
3	X	2412.000	70.42	31.14	101.56	74.00	27.56	peak	No Limit
4	*	2412.000	63.00	31.14	94.14	54.00	40.14	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX G Mode 2412MHz

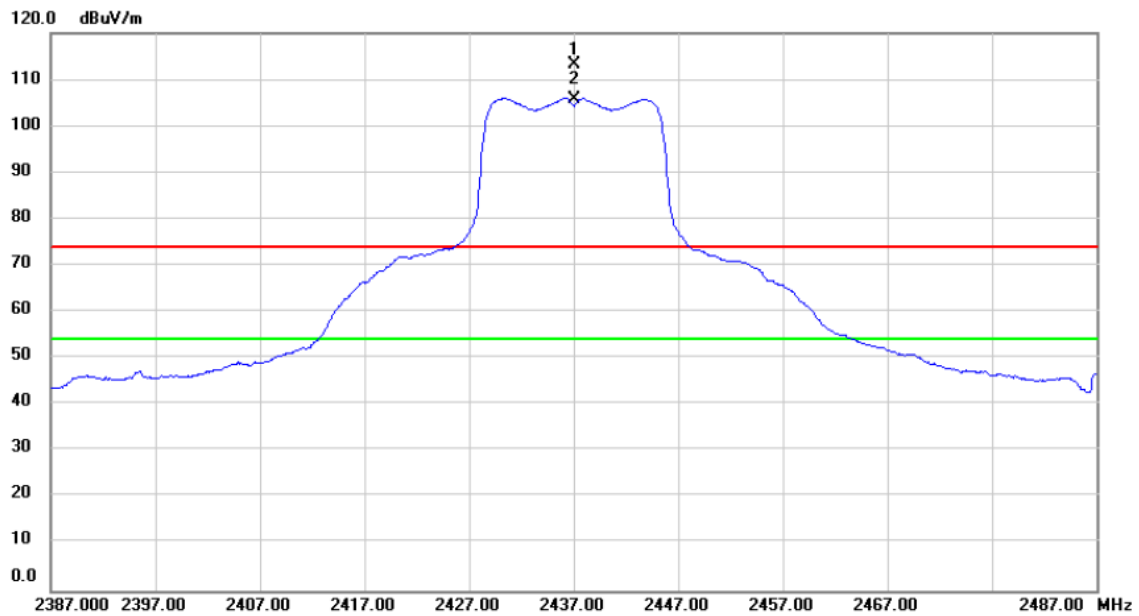
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.000	60.94	-11.37	49.57	74.00	-24.43	peak	
2	*	4824.000	49.43	-11.37	38.06	54.00	-15.94	AVG	

Orthogonal Axis :	X
Test Mode :	TX G Mode 2437MHz

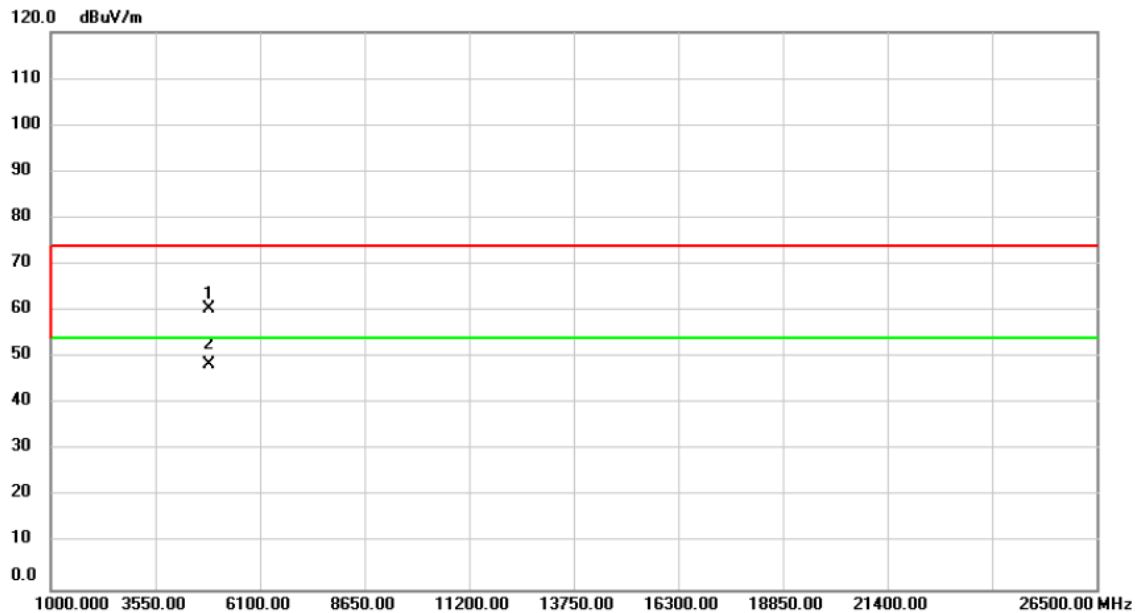
**Vertical**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2437.000	82.16	31.23	113.39	74.00	39.39	peak	No Limit
2	*	2437.000	74.65	31.23	105.88	54.00	51.88	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX G Mode 2437MHz

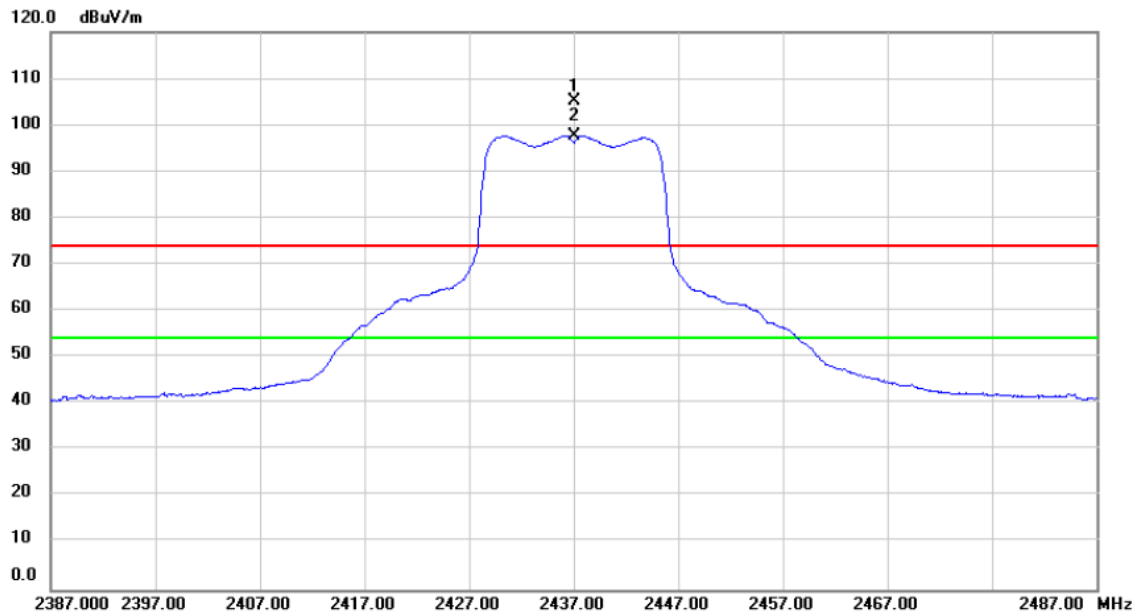
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	71.88	-11.29	60.59	74.00	-13.41	peak	
2	*	4874.000	59.61	-11.29	48.32	54.00	-5.68	AVG	

Orthogonal Axis :	X
Test Mode :	TX G Mode 2437MHz

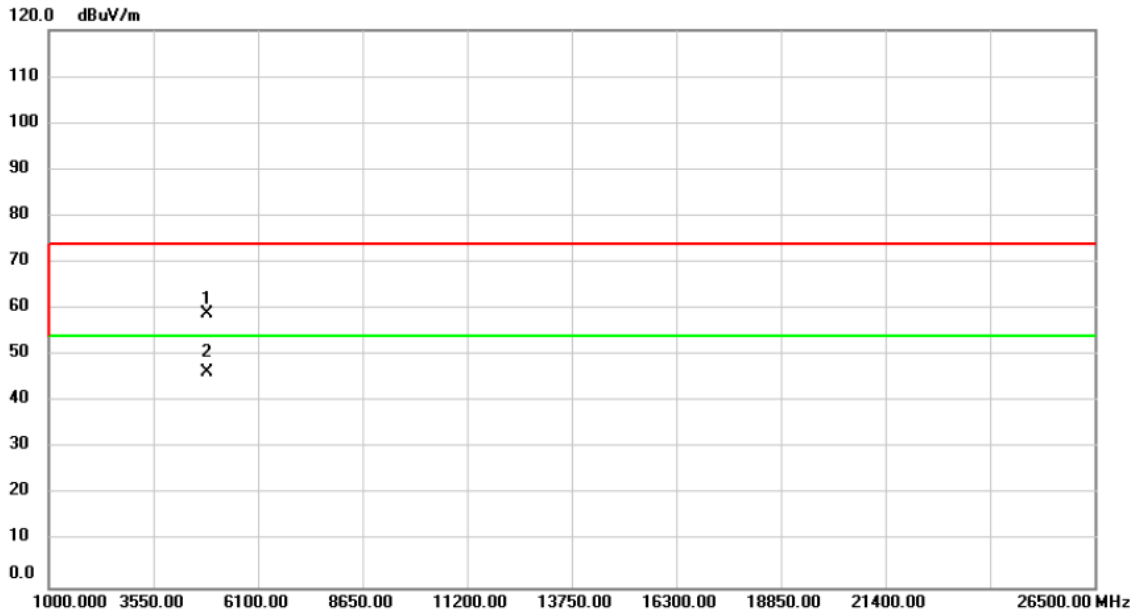
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2437.000	73.89	31.23	105.12	74.00	31.12	peak	No Limit
2	*	2437.000	66.47	31.23	97.70	54.00	43.70	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX G Mode 2437MHz

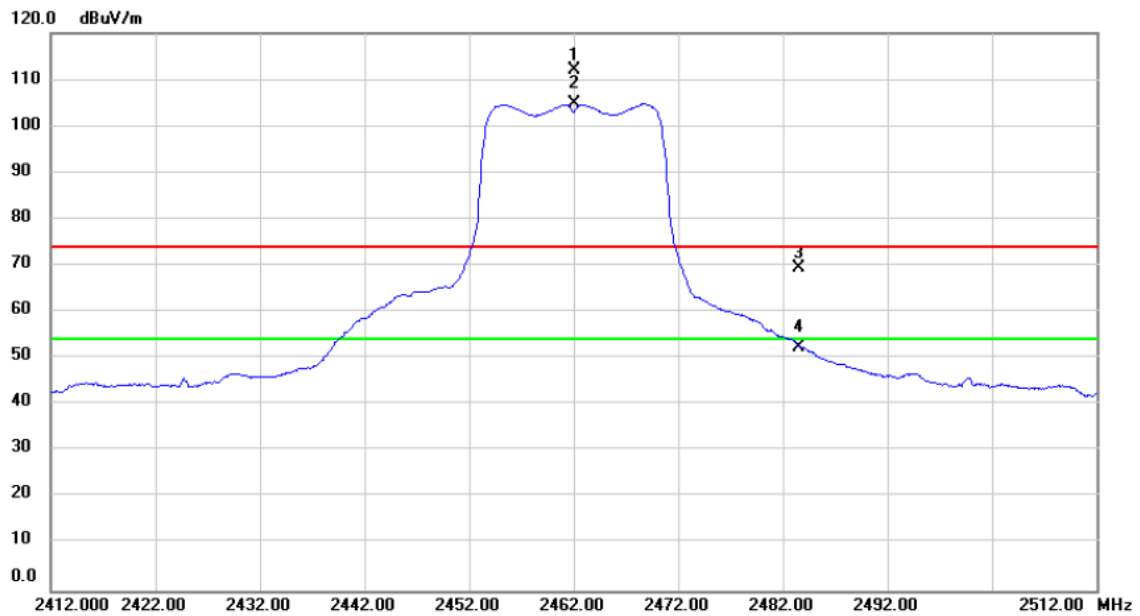
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	70.39	-11.29	59.10	74.00	-14.90	peak	
2	*	4874.000	57.71	-11.29	46.42	54.00	-7.58	AVG	

Orthogonal Axis :	X
Test Mode :	TX G Mode 2462MHz

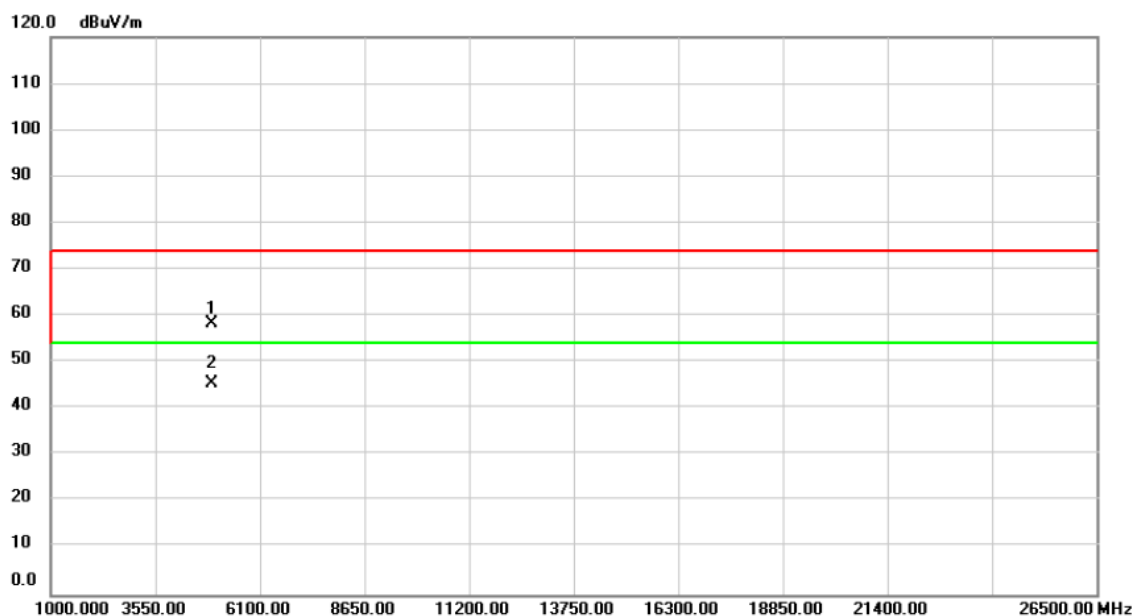
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2462.000	80.71	31.33	112.04	74.00	38.04	peak	No Limit
2	*	2462.000	73.46	31.33	104.79	54.00	50.79	AVG	No Limit
3		2483.500	37.90	31.41	69.31	74.00	-4.69	peak	
4		2483.500	21.04	31.41	52.45	54.00	-1.55	AVG	

Orthogonal Axis :	X
Test Mode :	TX G Mode 2462MHz

### Vertical

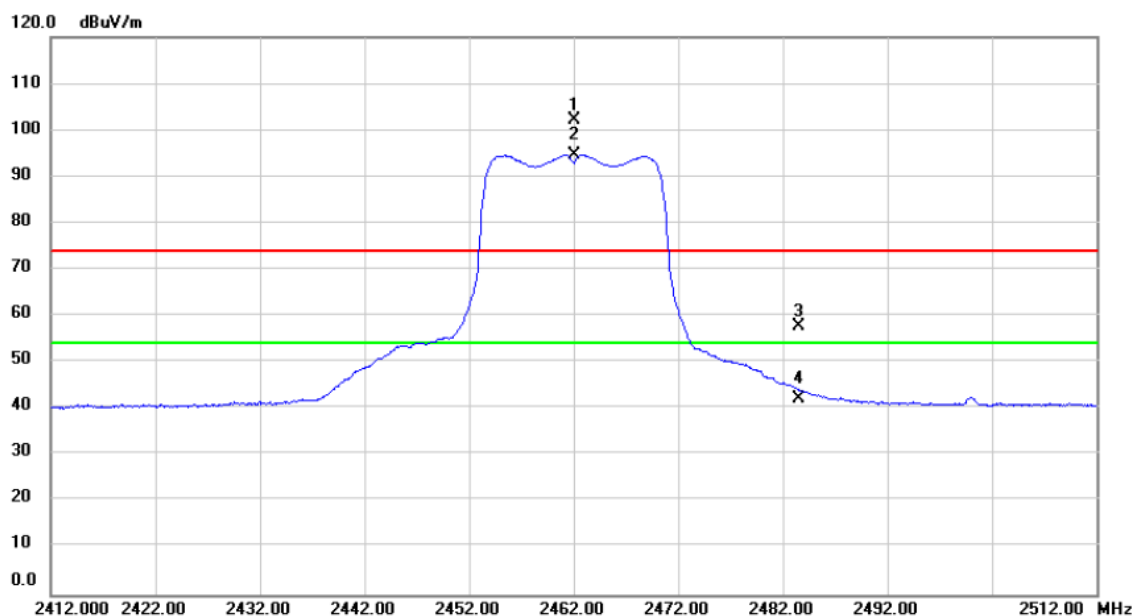


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.000	69.59	-11.22	58.37	74.00	-15.63	peak	
2	*	4924.000	56.57	-11.22	45.35	54.00	-8.65	AVG	



Orthogonal Axis :	X
Test Mode :	TX G Mode 2462MHz

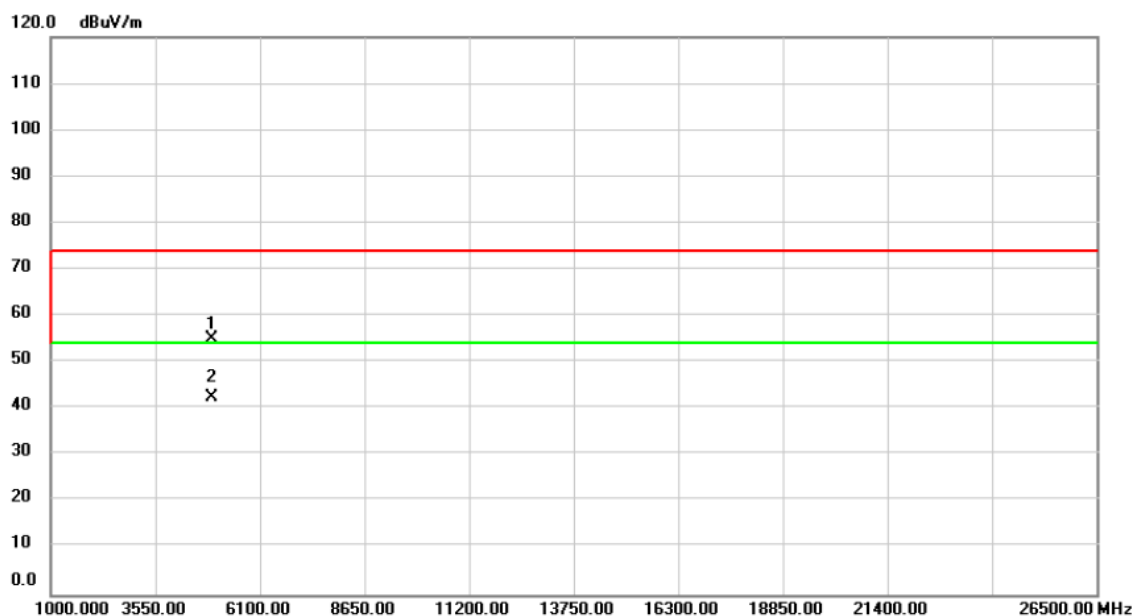
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2462.000	70.75	31.33	102.08	74.00	28.08	peak	No Limit
2	*	2462.000	63.30	31.33	94.63	54.00	40.63	AVG	No Limit
3		2483.500	26.29	31.41	57.70	74.00	-16.30	peak	
4		2483.500	10.84	31.41	42.25	54.00	-11.75	AVG	

Orthogonal Axis :	X
Test Mode :	TX G Mode 2462MHz

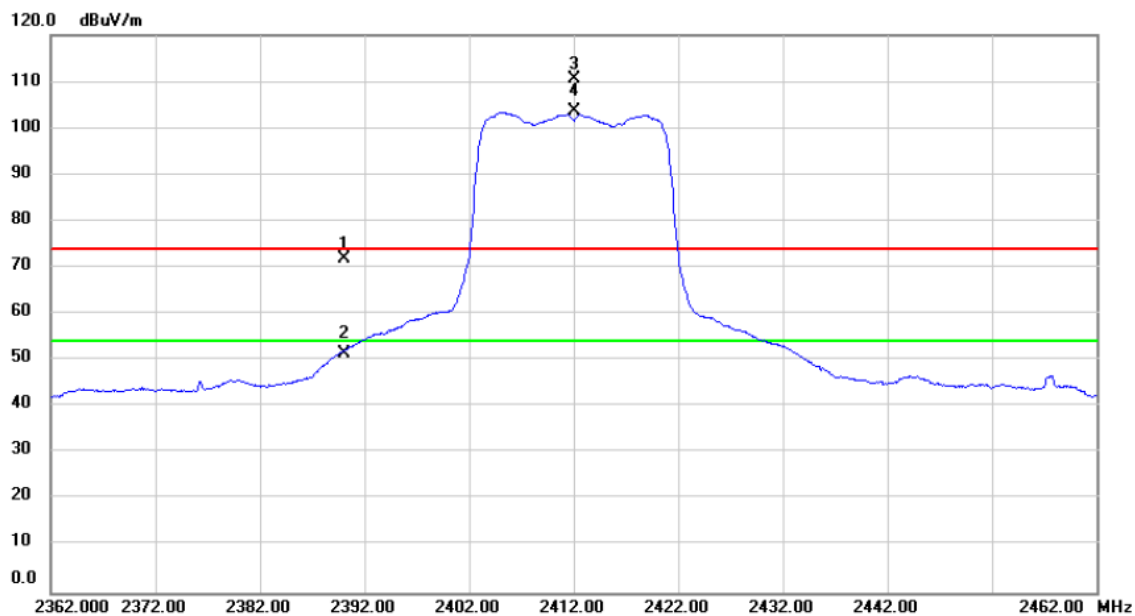
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.000	66.24	-11.22	55.02	74.00	-18.98	peak	
2	*	4924.000	53.62	-11.22	42.40	54.00	-11.60	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2412MHz

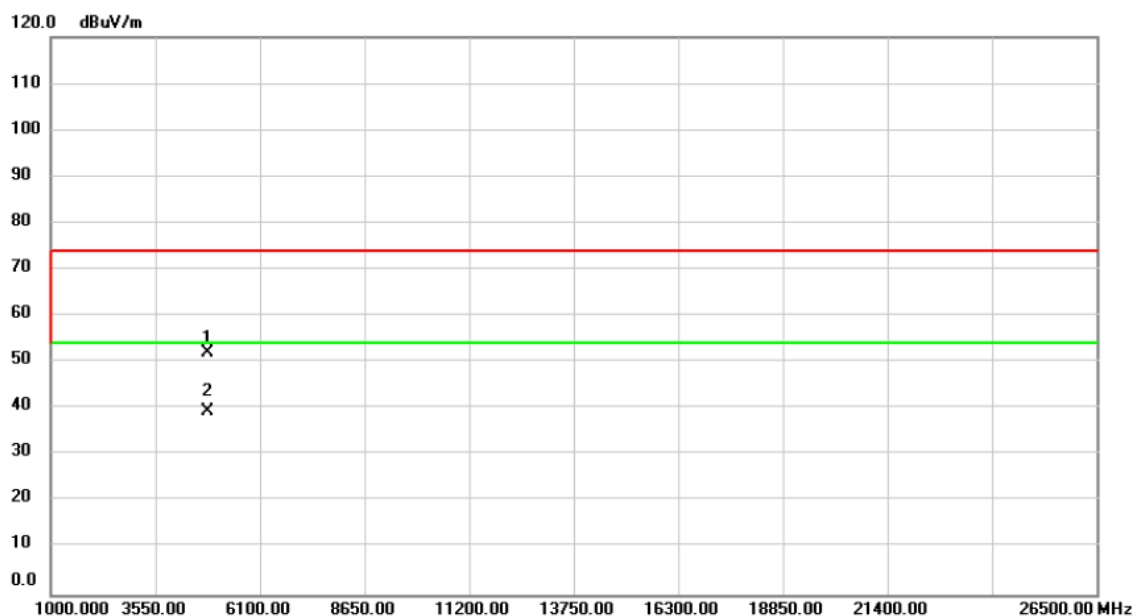
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	40.86	31.06	71.92	74.00	-2.08	peak	
2		2390.000	20.41	31.06	51.47	54.00	-2.53	AVG	
3	X	2412.000	79.49	31.14	110.63	74.00	36.63	peak	No Limit
4	*	2412.000	72.41	31.14	103.55	54.00	49.55	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2412MHz

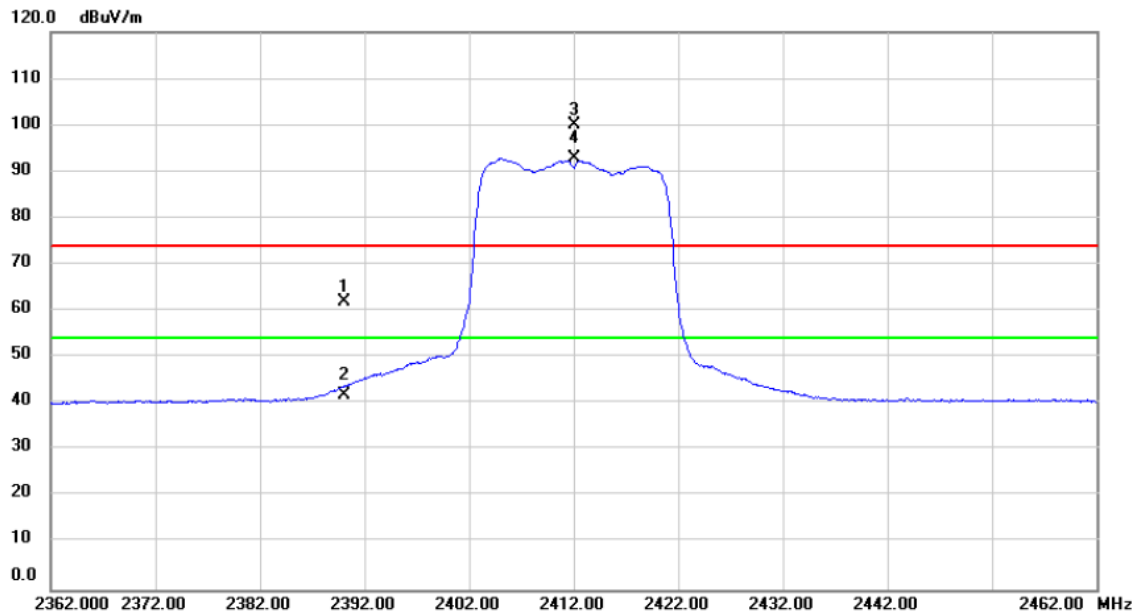
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.000	63.37	-11.37	52.00	74.00	-22.00	peak	
2	*	4824.000	50.80	-11.37	39.43	54.00	-14.57	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2412MHz

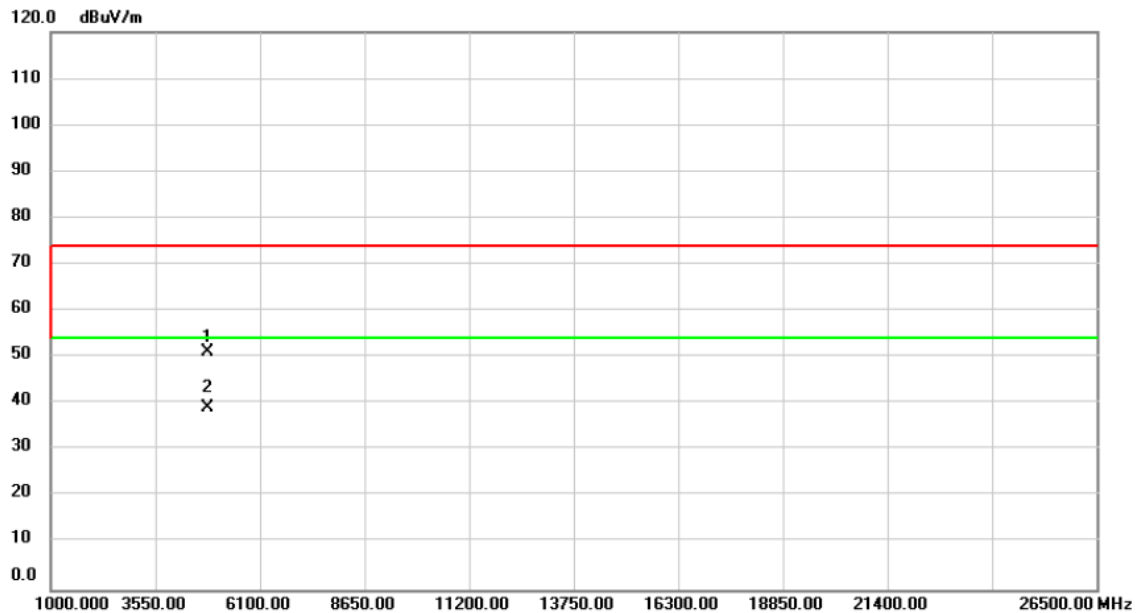
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	30.81	31.06	61.87	74.00	-12.13	peak	
2		2390.000	10.90	31.06	41.96	54.00	-12.04	AVG	
3	X	2412.000	68.90	31.14	100.04	74.00	26.04	peak	No Limit
4	*	2412.000	61.72	31.14	92.86	54.00	38.86	AVG	No Limit

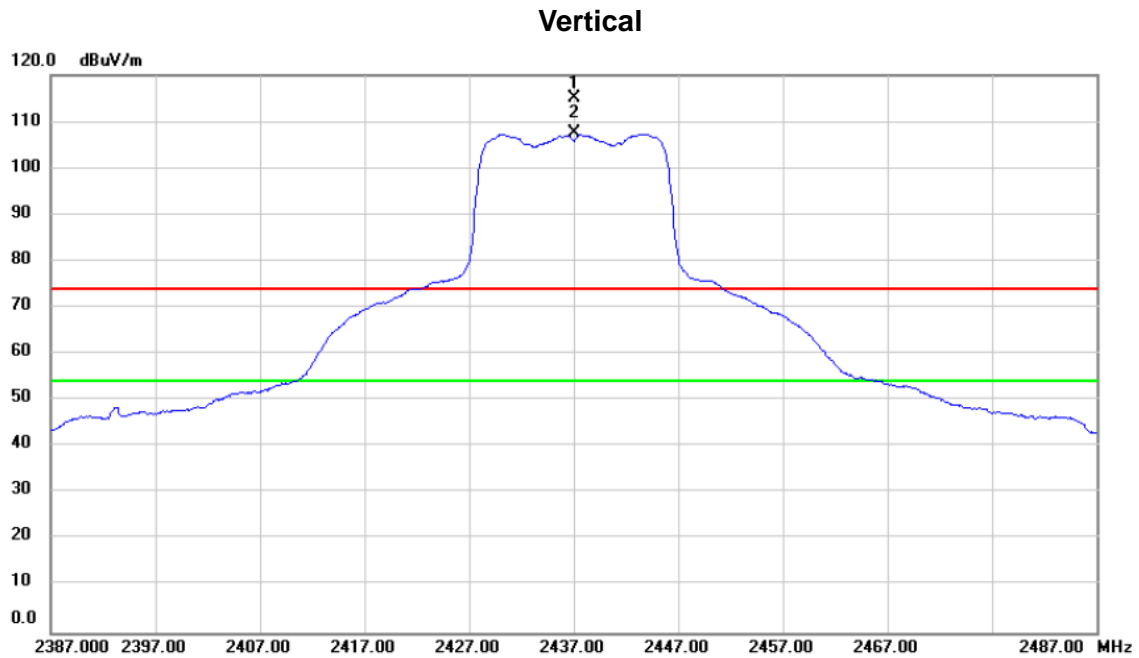
Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2412MHz

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.000	62.59	-11.37	51.22	74.00	-22.78	peak	
2	*	4824.000	50.51	-11.37	39.14	54.00	-14.86	AVG	

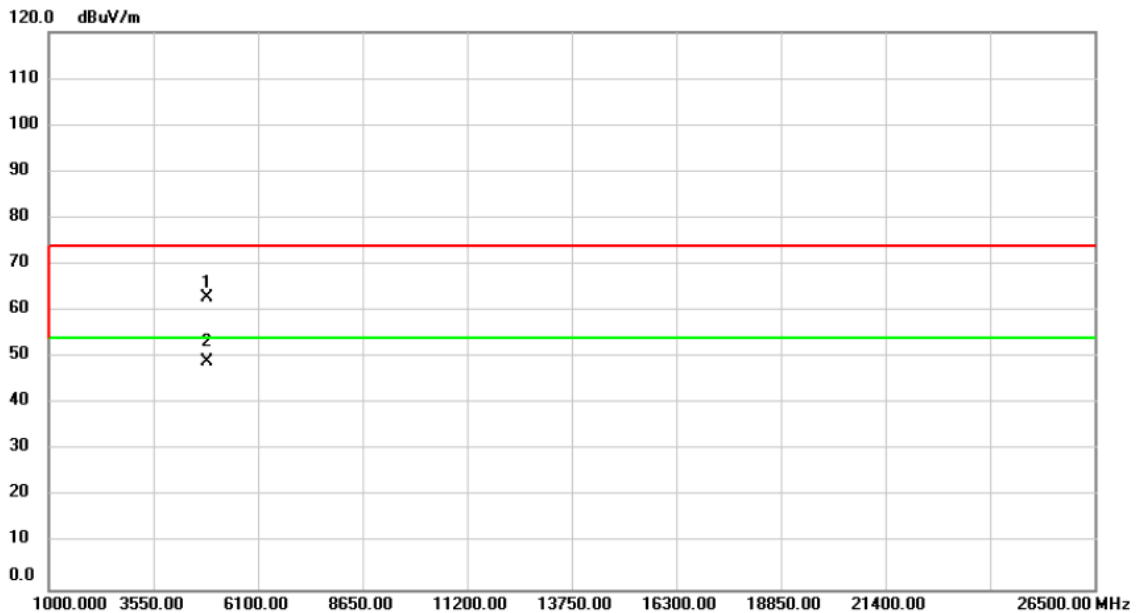
Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2437MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2437.000	83.80	31.23	115.03	74.00	41.03	peak	No Limit
2	*	2437.000	76.18	31.23	107.41	54.00	53.41	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2437MHz

### Vertical

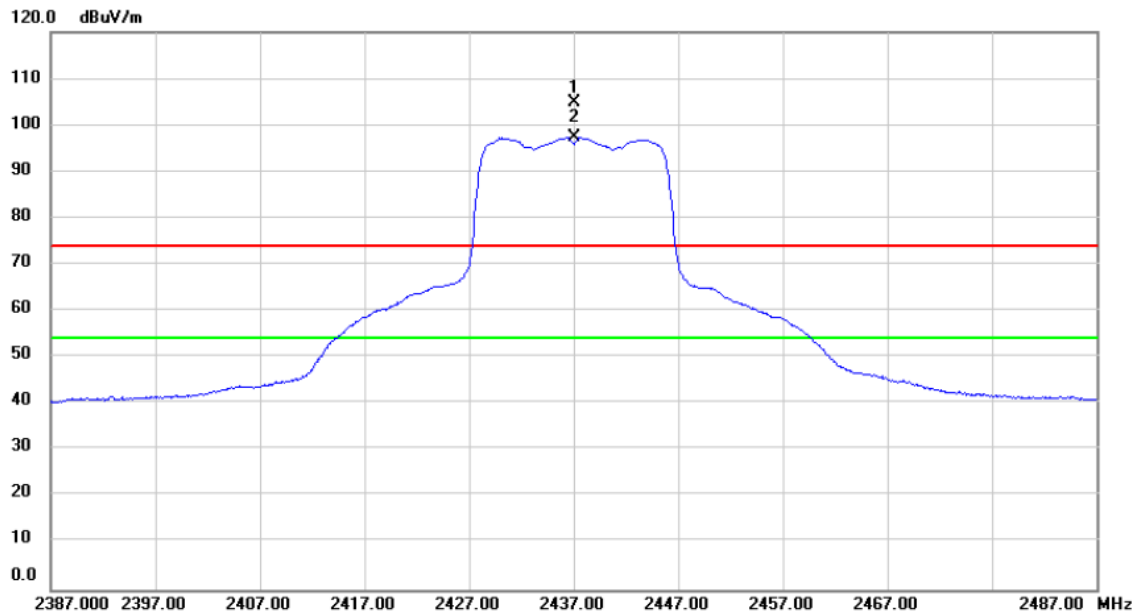


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	74.10	-11.29	62.81	74.00	-11.19	peak	
2	*	4874.000	60.23	-11.29	48.94	54.00	-5.06	AVG	



Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2437MHz

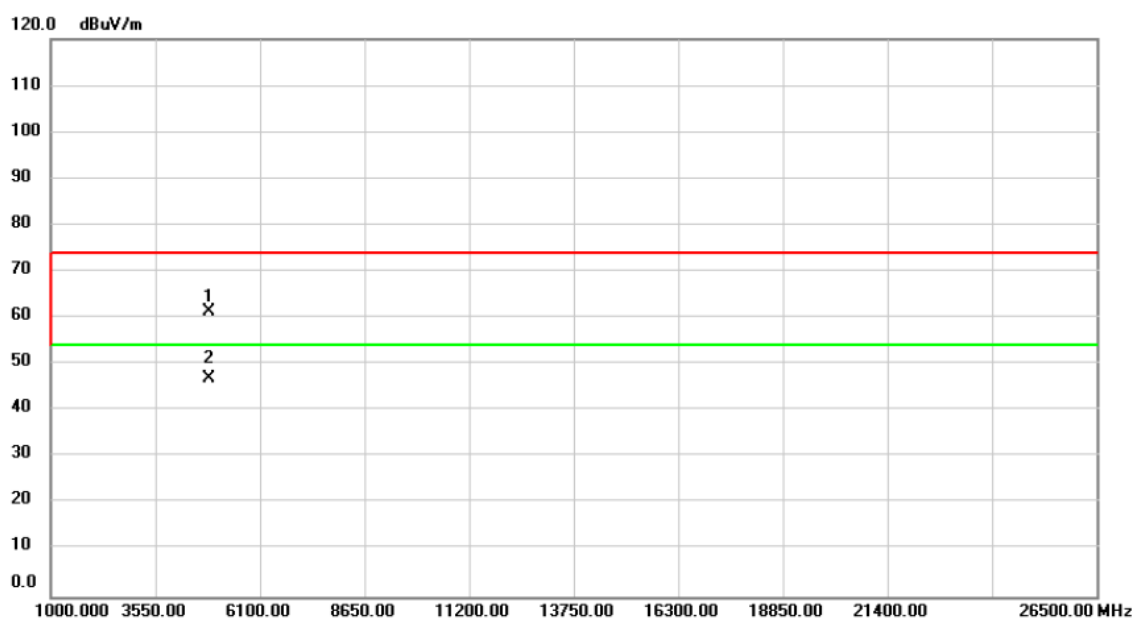
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2437.000	73.66	31.23	104.89	74.00	30.89	peak	No Limit
2	*	2437.000	66.06	31.23	97.29	54.00	43.29	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2437MHz

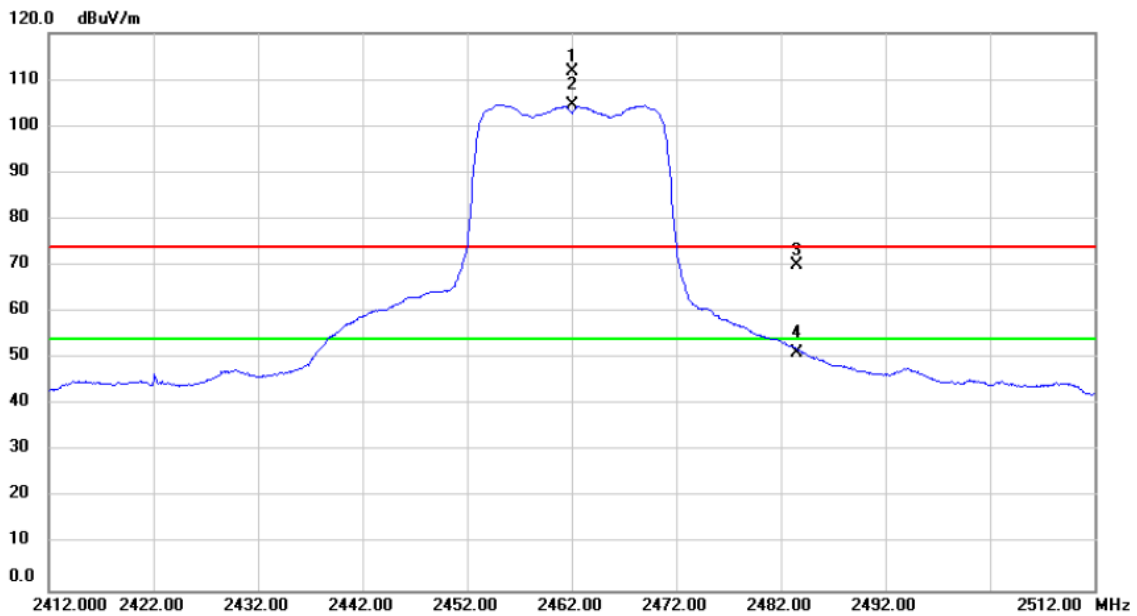
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	72.52	-11.29	61.23	74.00	-12.77	peak	
2	*	4874.000	58.19	-11.29	46.90	54.00	-7.10	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2462MHz

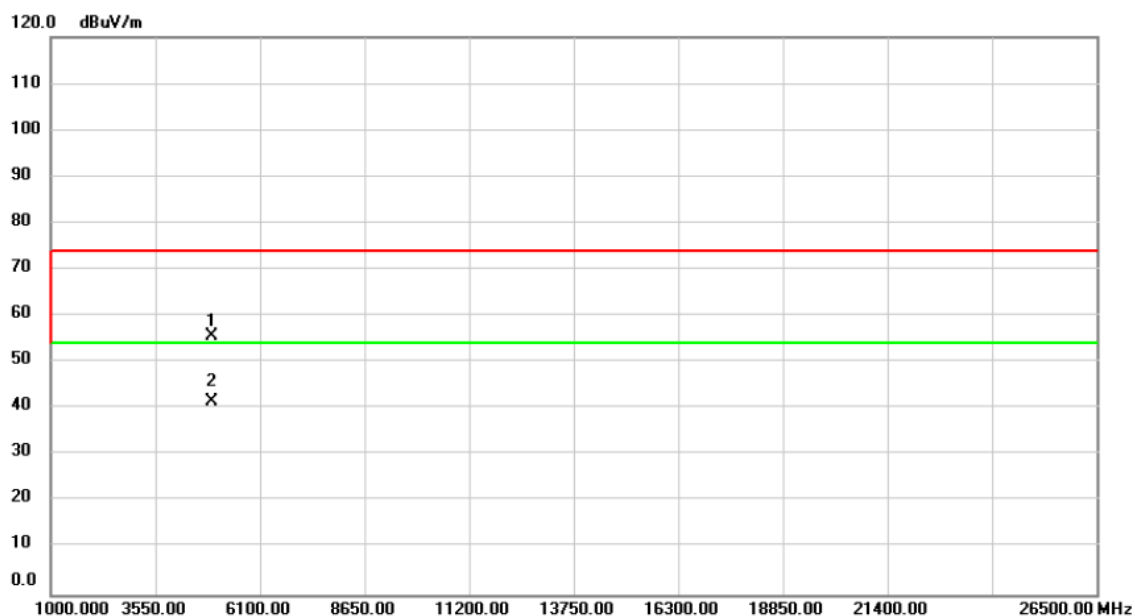
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2462.000	80.39	31.33	111.72	74.00	37.72	peak	No Limit
2	*	2462.000	73.36	31.33	104.69	54.00	50.69	AVG	No Limit
3		2483.500	38.68	31.41	70.09	74.00	-3.91	peak	
4		2483.500	19.88	31.41	51.29	54.00	-2.71	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2462MHz

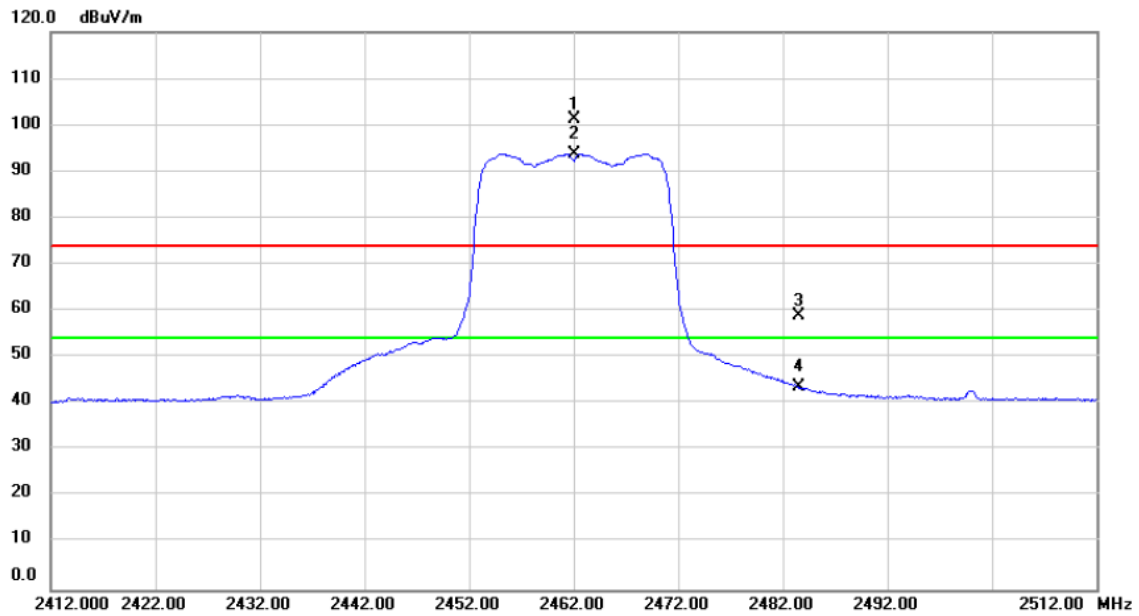
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.000	66.74	-11.22	55.52	74.00	-18.48	peak	
2	*	4924.000	52.91	-11.22	41.69	54.00	-12.31	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2462MHz

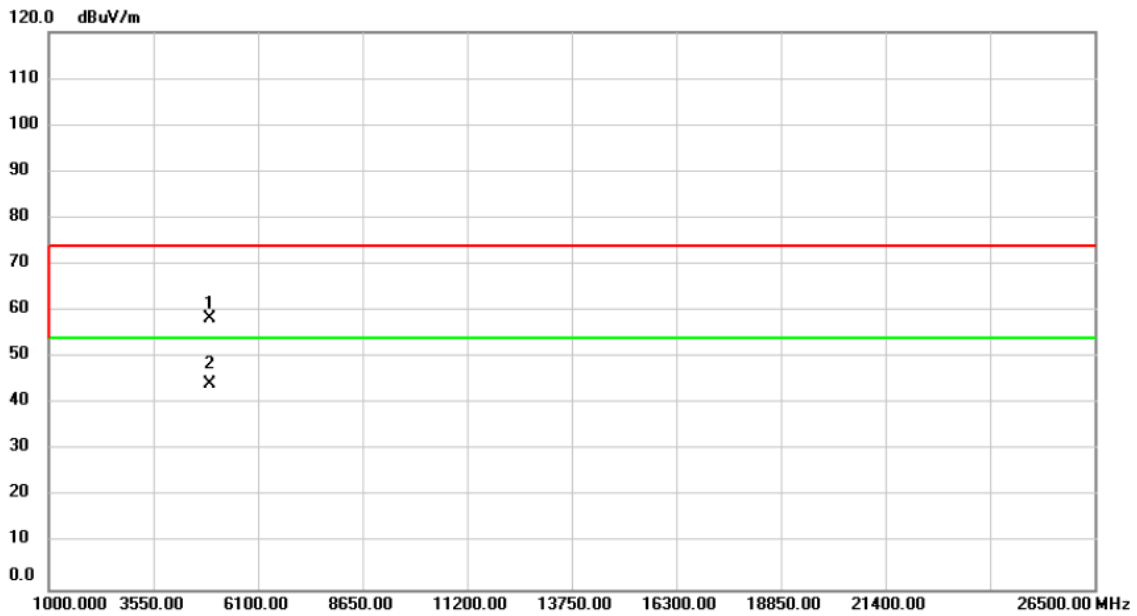
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2462.000	69.95	31.33	101.28	74.00	27.28	peak	No Limit
2	*	2462.000	62.37	31.33	93.70	54.00	39.70	AVG	No Limit
3		2483.500	27.43	31.41	58.84	74.00	-15.16	peak	
4		2483.500	12.11	31.41	43.52	54.00	-10.48	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2462MHz

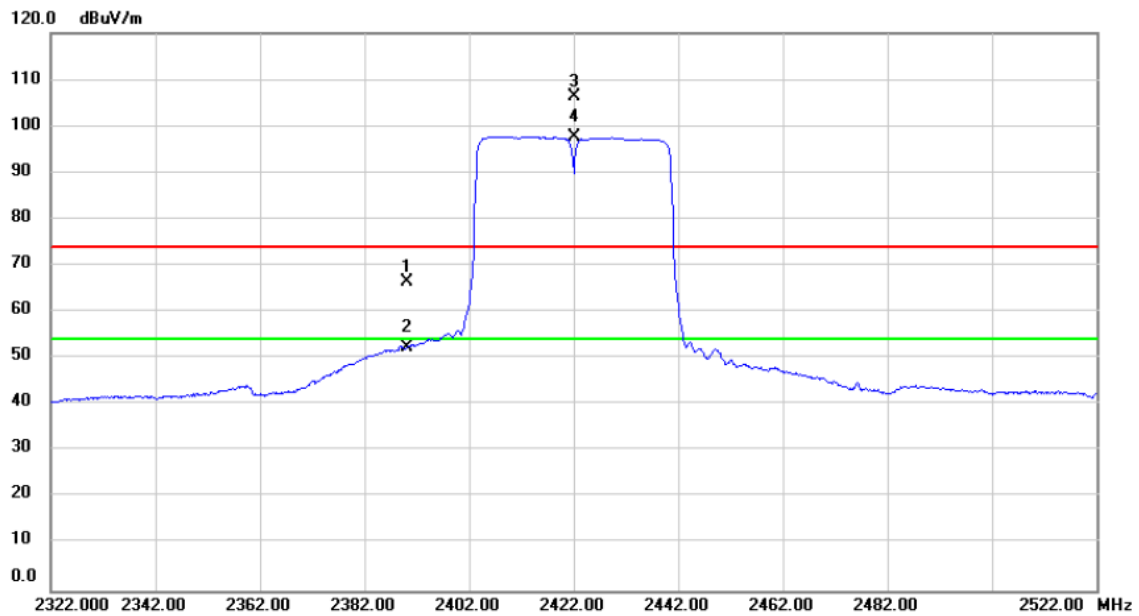
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.000	69.48	-11.22	58.26	74.00	-15.74	peak	
2	*	4924.000	55.39	-11.22	44.17	54.00	-9.83	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M Mode 2422MHz

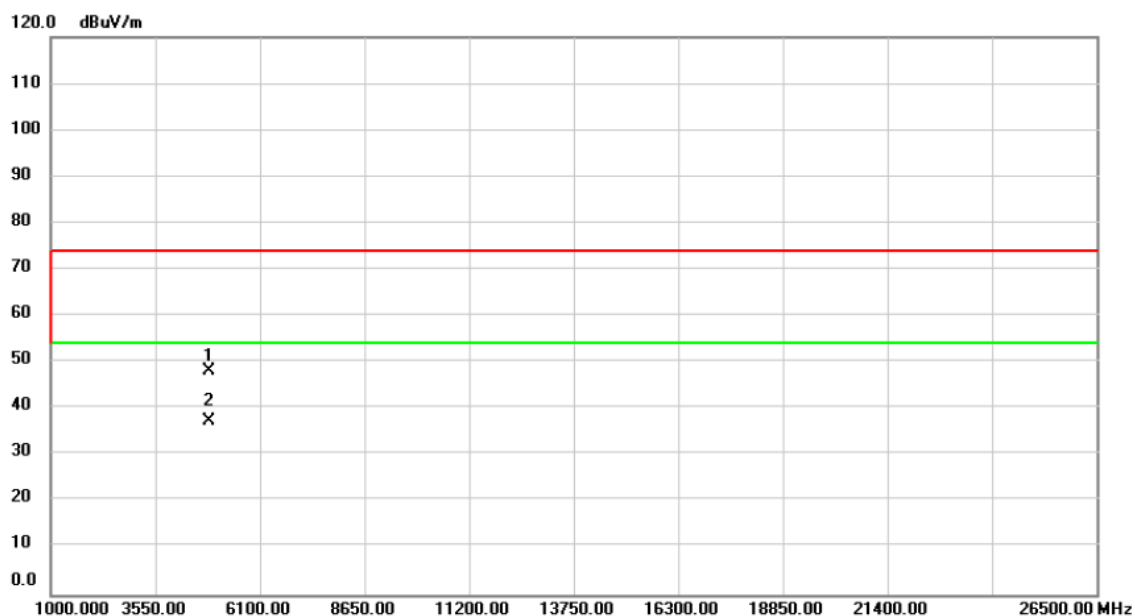
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	35.26	31.06	66.32	74.00	-7.68	peak	
2		2390.000	21.19	31.06	52.25	54.00	-1.75	AVG	
3	X	2422.000	75.23	31.18	106.41	74.00	32.41	peak	No Limit
4	*	2422.000	66.52	31.18	97.70	54.00	43.70	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-40M Mode 2422MHz

### Vertical

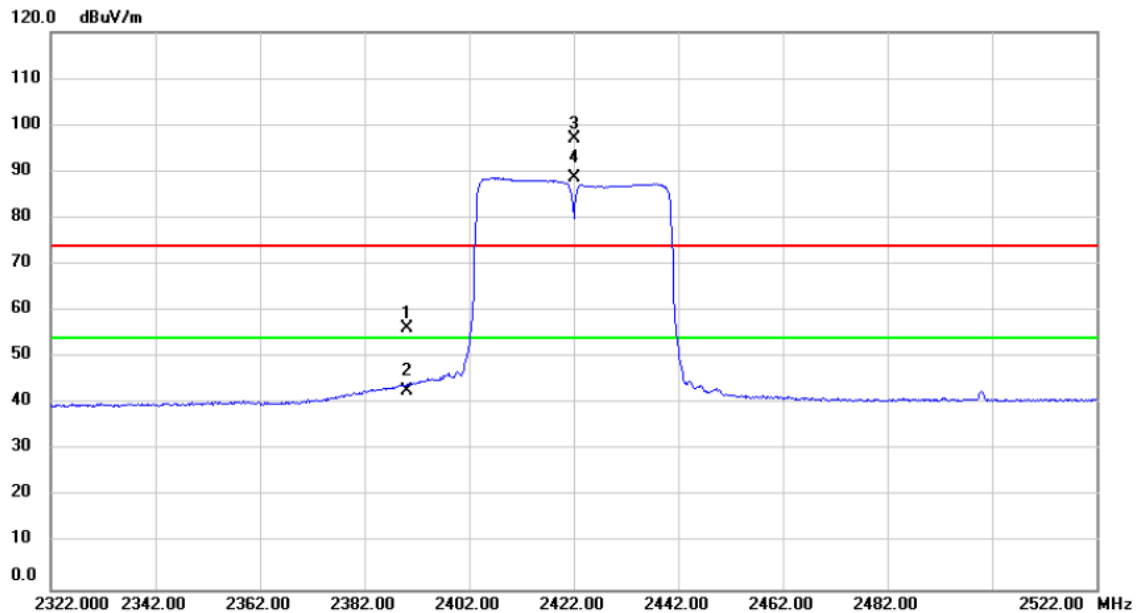


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4844.000	59.45	-11.34	48.11	74.00	-25.89	peak	
2	*	4844.000	48.59	-11.34	37.25	54.00	-16.75	AVG	



Orthogonal Axis :	X
Test Mode :	TX N-40M Mode 2422MHz

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	25.31	31.06	56.37	74.00	-17.63	peak	
2		2390.000	11.78	31.06	42.84	54.00	-11.16	AVG	
3	X	2422.000	66.01	31.18	97.19	74.00	23.19	peak	No Limit
4	*	2422.000	57.43	31.18	88.61	54.00	34.61	AVG	No Limit