

# FCC Radio Test Report

## FCC ID: 2AXJ4KC105

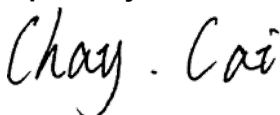
**This report concerns: Class II Permissive Change**

**Project No.** : 1906C173E  
**Equipment** : Kasa Spot, 24/7 Recording  
**Brand Name** : tp-link  
**Test Model** : KC105  
**Series Model** : EC60  
**Applicant** : TP-Link Corporation Limited  
**Address** : Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road,  
Tsim Sha Tsui, Kowloon, Hong Kong  
**Manufacturer** : TP-Link Corporation Limited  
**Address** : Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road,  
Tsim Sha Tsui, Kowloon, Hong Kong  
**Date of Receipt** : Oct. 10, 2019  
Sep. 28, 2020  
Jul. 12, 2022  
**Date of Test** : Oct. 11, 2019 ~ Oct. 23, 2019  
Sep. 28, 2020 ~ Oct. 27, 2020  
Jul. 13, 2022 ~ Aug. 10, 2022  
**Issued Date** : Aug. 23, 2022  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: DG2019093050, DG2022071257  
**Standard(s)** : FCC CFR Title 47, Part 15, Subpart C  
FCC KDB 558074 D01 15.247 Meas Guidance v05r02  
ANSI C63.10-2013

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



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TESTING CERT #5123.02

**Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL's** reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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**BTL's** laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

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The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

**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.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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### REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-1906C173E	R00	<p>Compared with original report (BTL-FCCP-1-1906C173A),</p> <ol style="list-style-type: none"> <li>1. Updated the standard writing.</li> <li>2. Changed version to C60 4.0.</li> <li>3. Changed the SOC, Sensor, and related peripheral circuits.</li> <li>4. Changed the shell.</li> <li>5. Changed the adapter.</li> </ol> <p>So radiated emissions and AC power line conducted emissions are retested and recorded. Other are kept the same.</p>	Aug. 23, 2022	Valid

## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.247(a)(2)	Bandwidth	APPENDIX E	PASS	-----
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS	-----
15.247(d)	Conducted Spurious Emissions	APPENDIX G	PASS	-----
15.247(e)	Power Spectral Density	APPENDIX H	PASS	-----
15.203	Antenna Requirement	-----	PASS	Note(2)

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

## 1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China.

BTL's Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

## 1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

### A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.68

### B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9kHz ~ 30MHz	V	2.36
		30MHz ~ 200MHz	V	4.36
		30MHz ~ 200MHz	H	3.32
		200MHz ~ 1,000MHz	V	4.08
		200MHz ~ 1,000MHz	H	3.96
		1GHz ~ 6GHz	-	3.80
		6GHz ~ 18GHz	-	4.82
		18GHz ~ 26.5GHz	-	3.62
		26.5GHz ~ 40GHz	-	4.00

### C. Other Measurement:

Test Item	Uncertainty
Bandwidth	±3.8 %
Maximum Output Power	±0.95 dB
Conducted Spurious Emission	±2.71 dB
Power Spectral Density	±0.86 dB
Temperature	±0.08 °C
Time	±0.58 %
Supply voltages	±0.3 %

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.



### 1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	23°C	51%	AC 120V/60Hz	Jeter Wang
Radiated Emissions -9K-30MHz	25°C	55%	AC 120V/60Hz	Farun Liang
Radiated Emissions -30 MHz to 1GHz	26°C	56%	AC 120V/60Hz	Meers Zhang
Radiated Emissions -Above 1000 MHz	23-26°C	53-65%	AC 120V/60Hz	Berton Luo Chen Mo
Bandwidth	25°C	58%	AC 120V/60Hz	Jonas Chen
Maximum Output Power	25°C	58%	AC 120V/60Hz	Jonas Chen
Conducted Spurious Emissions	25°C	58%	AC 120V/60Hz	Jonas Chen
Power Spectral Density	25°C	58%	AC 120V/60Hz	Jonas Chen

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Kasa Spot, 24/7 Recording
Brand Name	tp-link
Test Model	KC105
Series Model	EC60
Model Difference(s)	Only differ in model name.
Power Source	DC voltage supplied from AC adapter. Model: T090060-2B1
Power Rating	I/P: 100-240V ~50/60Hz 0.3A    O/P: 9V $\equiv$ 0.6A
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 72.2 Mbps
Maximum Output Power	IEEE 802.11b: 23.11 dBm (0.2046 W) IEEE 802.11g: 26.88 dBm (0.4875 W) IEEE 802.11n (HT20): 26.79 dBm (0.4775 W)

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

#### 2. Channel List:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n (HT20)							
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		

#### 3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed	N/A	3.59

Note: The antenna gain is provided by the manufacturer.

## 2.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

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-20 MHz Mode Channel 01/06/11
Mode 4	TX G Mode Channel 06
Mode 5	TX B Mode Channel 01/02/06/10/11
Mode 6	TX G Mode Channel 01/02/06/10/11
Mode 7	TX N-20 MHz Mode Channel 01/02/06/10/11

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 4	TX G Mode Channel 06

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 4	TX G Mode Channel 06

Radiated emissions test - Above 1GHz	
Final Test Mode	Description
Mode 5	TX B Mode Channel 01/02/06/10/11
Mode 6	TX G Mode Channel 01/02/06/10/11
Mode 7	TX N-20 MHz Mode Channel 01/02/06/10/11

Conducted 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-20 MHz Mode Channel 01/06/11

**NOTE:**

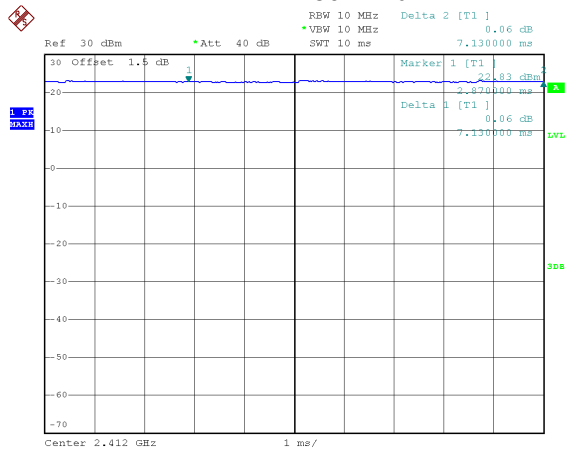
- (1) The measurements are performed at the high, middle, low available channels.
- (2) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (3) For AC power line conducted emissions and radiated emission below 1 GHz test, the IEEE 802.11g Channel 06 is found to be the worst case and recorded.
- (4) For radiated emission above 1 GHz test, 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.

### 2.3 PARAMETERS OF TEST SOFTWARE

Test Software	N/A		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	40	43	47
IEEE 802.11g	49	52	55
IEEE 802.11n (HT20)	47	50	53

## 2.4 DUTY CYCLE

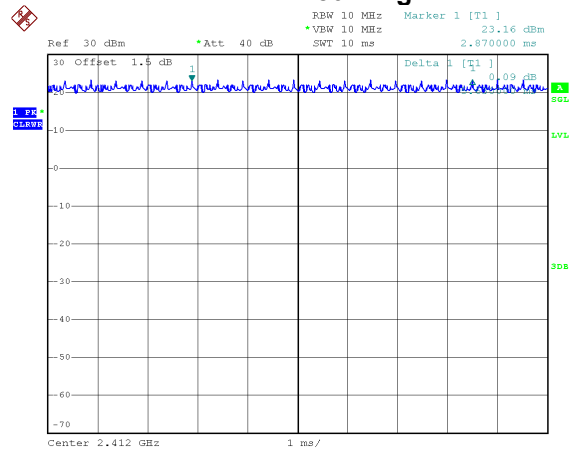
### IEEE 802.11b



Date: 18.OCT.2019 15:29:47

Duty cycle = 10.000 ms / 10.000 ms = 100%  
Duty Factor = 10 log(1/Duty cycle) = 0.00

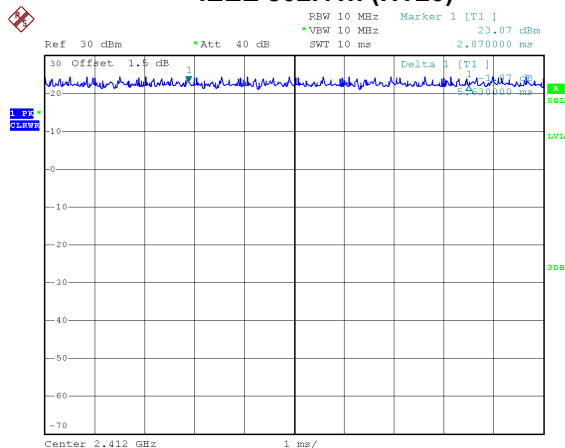
### IEEE 802.11g



Date: 18.OCT.2019 15:32:15

Duty cycle = 10.000 ms / 10.000 ms = 100%  
Duty Factor = 10 log(1/Duty cycle) = 0.00

### IEEE 802.11n (HT20)



Date: 18.OCT.2019 15:33:09

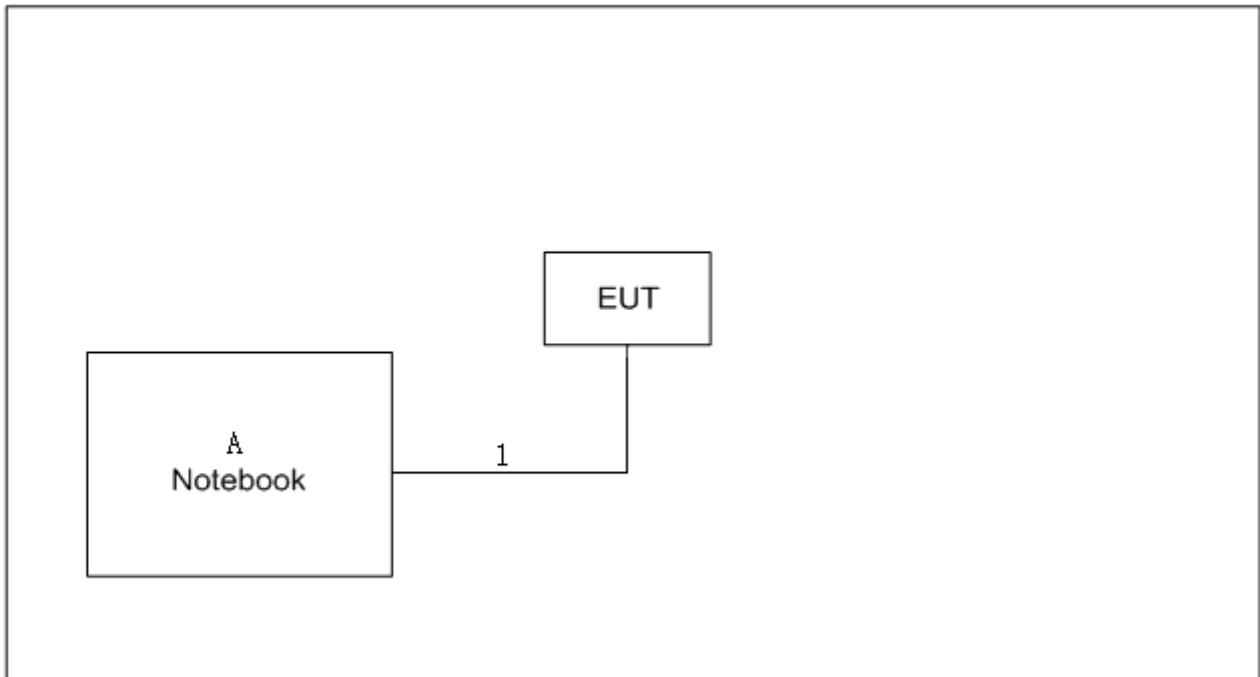
Duty cycle = 10.000 ms / 10.000 ms = 100%  
Duty Factor = 10 log(1/Duty cycle) = 0.00

#### NOTE:

For IEEE 802.11b, IEEE 802.11g and IEEE 802.11n (HT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

## 2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



## 2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Dell	Inspiron 15-7559	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB Cable	NO	NO	2m

### 3. AC POWER LINE CONDUCTED EMISSIONS TEST

#### 3.1 LIMIT

Frequency of Emission (MHz)	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 tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

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

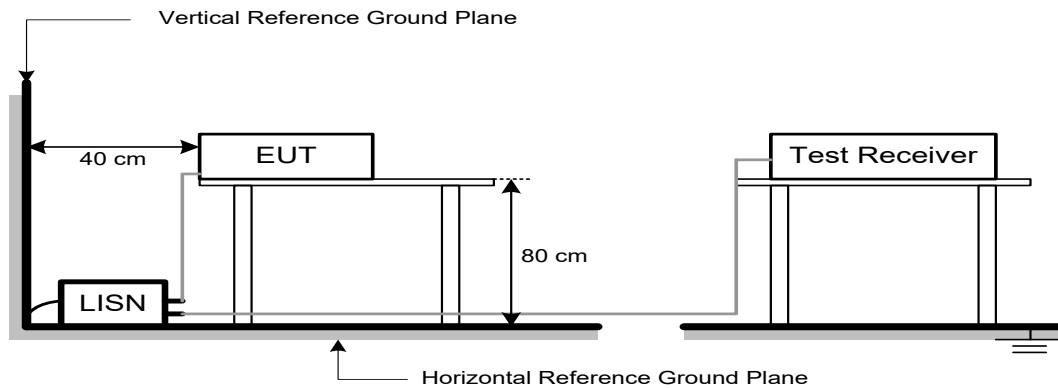
#### 3.2 TEST PROCEDURE

- 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 equipment 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.

#### 3.3 DEVIATION FROM TEST STANDARD

No deviation

### 3.4 TEST SETUP



### 3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

### 3.6 TEST RESULTS

Please refer to the APPENDIX A.



## 4. RADIATED EMISSIONS TEST

### 4.1 LIMIT

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 (9 kHz-1000 MHz)

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
Above 960	500	3

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

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

#### NOTE:

- (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).

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

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

#### 4.2 TEST PROCEDURE

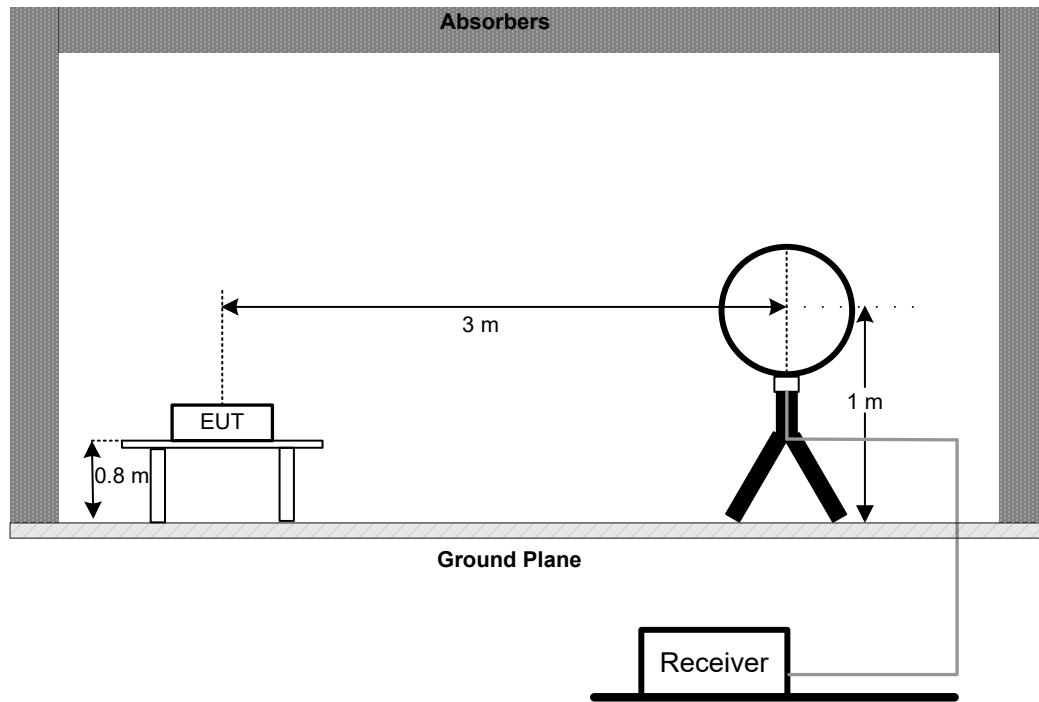
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- The measuring distance 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 1 GHz)
- 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 1 GHz.
- 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 1 GHz)
- 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 1 GHz)
- For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 4.3 DEVIATION FROM TEST STANDARD

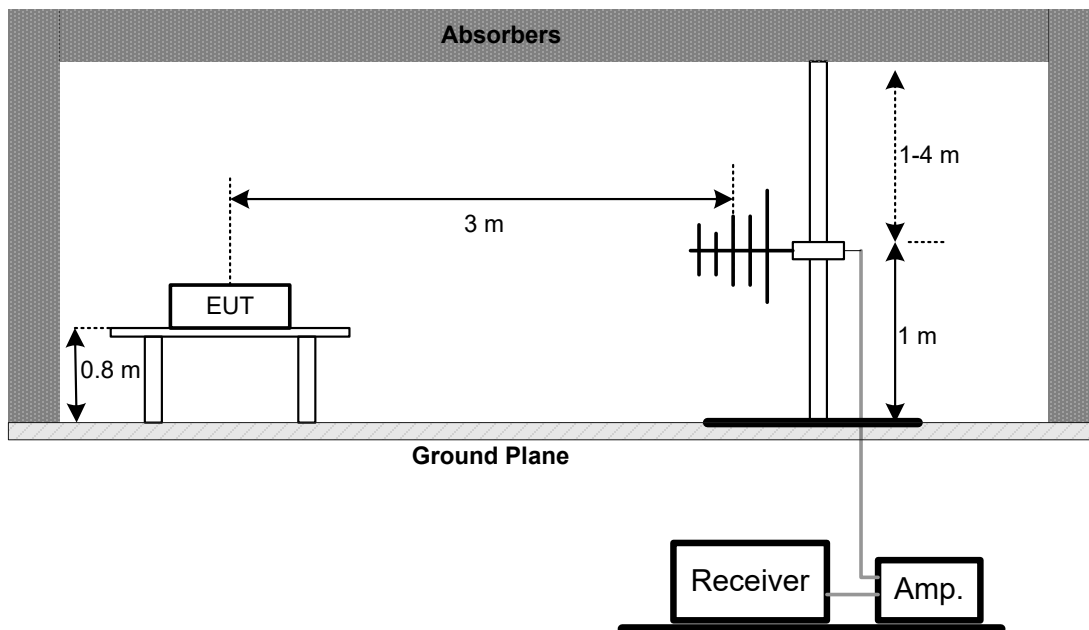
No deviation

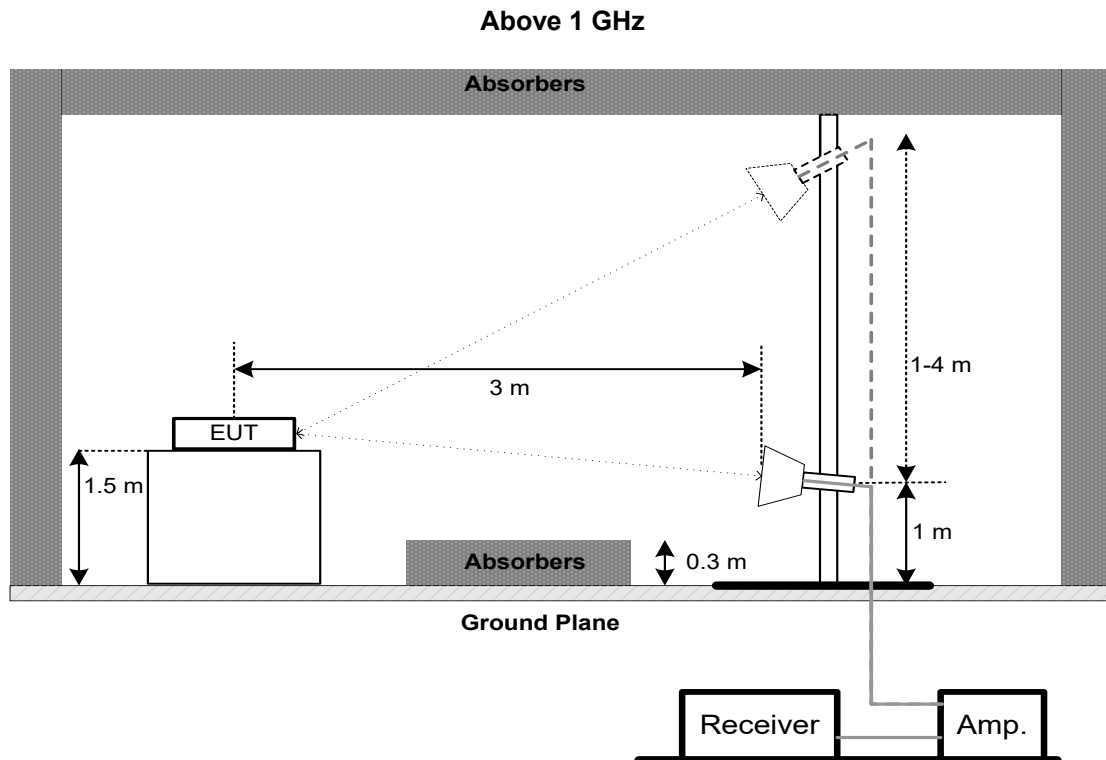
## 4.4 TEST SETUP

9 kHz-30 MHz



30 MHz to 1 GHz





#### 4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 4.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B

Remark:

- (1) Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

#### 4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

#### 4.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX 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 LIMIT

FCC Part15, Subpart C (15.247)		
Section	Test Item	Limit
15.247(a)(2)	6 dB Bandwidth	Minimum 500 kHz
	99% Emission Bandwidth	-

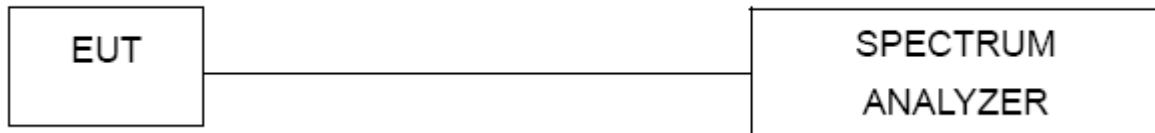
### 5.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- For 6dB Bandwidth Spectrum setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.  
For 99% OBW Spectrum Setting: For B,G,N20 mode: RBW= 300KHz, VBW=1MHz, Sweep time = 2.5 ms.
- The bandwidth was performed in accordance with method 11.8.1 of ANSI C63.10-2013.

### 5.3 DEVIATION FROM STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 5.6 TEST RESULTS

Please refer to the APPENDIX E.

## 6. MAXIMUM OUTPUT POWER TEST

### 6.1 LIMIT

FCC Part15, Subpart C (15.247)		
Section	Test Item	Limit
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm

### 6.2 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.1.3 of ANSI C63.10-2013.

### 6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 6.6 TEST RESULTS

Please refer to the APPENDIX F.

## 7. CONDUCTED SPURIOUS EMISSIONS

### 7.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

### 7.2 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= 100 kHz, VBW=300 kHz, Sweep time = Auto.

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 7.6 TEST RESULTS

Please refer to the APPENDIX G.

## 8. POWER SPECTRAL DENSITY TEST

### 8.1 LIMIT

FCC Part15, Subpart C (15.247)		
Section	Test Item	Limit
15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

### 8.2 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=3 kHz, VBW=10 kHz, Sweep time = Auto.
- The Power Spectral Density was performed in accordance with method 11.10.2 of ANSI C63.10-2013.

### 8.3 DEVIATION FROM STANDARD

No deviation.

### 8.4 TEST SETUP



### 8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 8.6 TEST RESULTS

Please refer to the APPENDIX H.



## 9. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Jan. 22, 2023
2	LISN	EMCO	3816/2	52765	Jan. 23, 2023
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Jan. 23, 2023
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	Cable	N/A	RG223	12m	Mar. 08, 2023

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1*	Triple Loop Antenna	Schwarzbeck	HXYZ9170	9170-110	Feb. 28, 2024
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Jan. 22, 2023
3	Cable	N/A	RG400 (C-101(3m)+C-70(6m))	N/A	Jun. 17, 2023
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 03, 2023
2	Amplifier	HP	8447D	2944A08742	Jan. 22, 2023
3	Cable	emci	LMR-400	N/A	Nov. 30, 2022
4	Controller	CT	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2023

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Horn Antenna	ARA	DRG-118A	16554	Apr. 18, 2023
2	Amplifier	Agilent	8449B	3008A02584	Jul. 03, 2023
3	Controller	CT	SC100	N/A	N/A
4	Controller	MF	MF-7802	MF780208416	N/A
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2023
7	Cable	Talent microwave	A81-SMAMSMAM-12.5M	N/A	Oct. 15, 2022

Bandwidth & Antenna Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Aug. 03, 2020
2	Wideband power sensor	Keysight	N1923A	MY58310004	Aug. 03, 2020

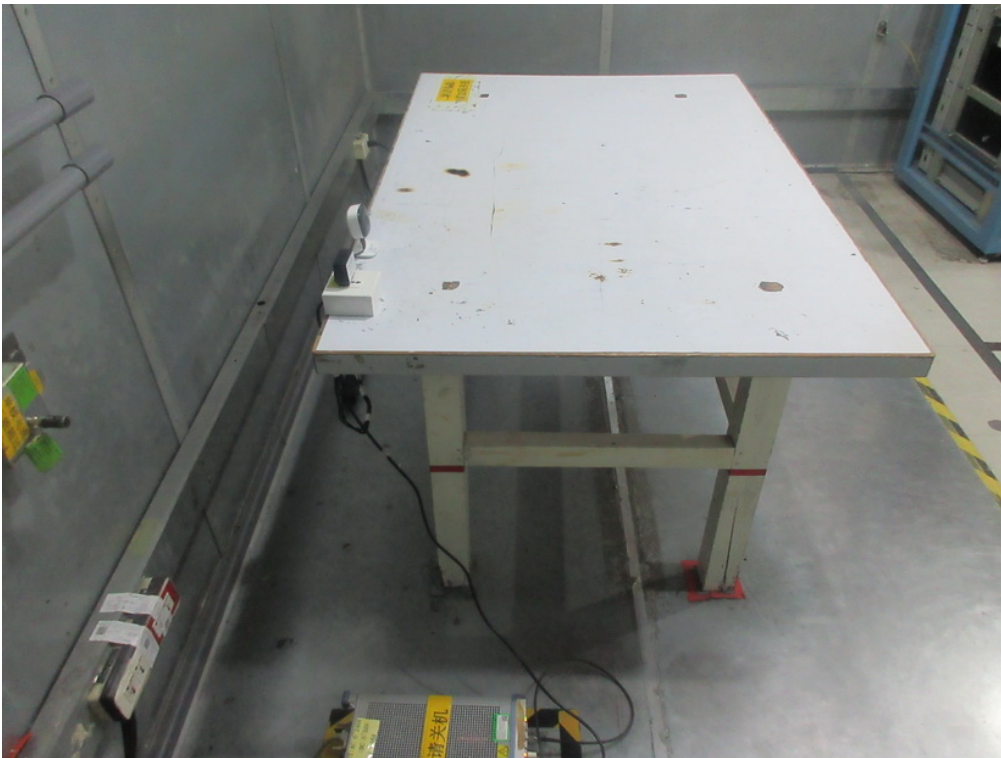
Remark: "N/A" denotes no model name, serial no. or calibration specified.

"\*\*" calibration period of equipment list is three year.

Except \* item, all calibration period of equipment list is one year.

## 10. EUT TEST PHOTO

### AC Power Line Conducted Emissions Test Photos



## Radiated Emissions Test Photos

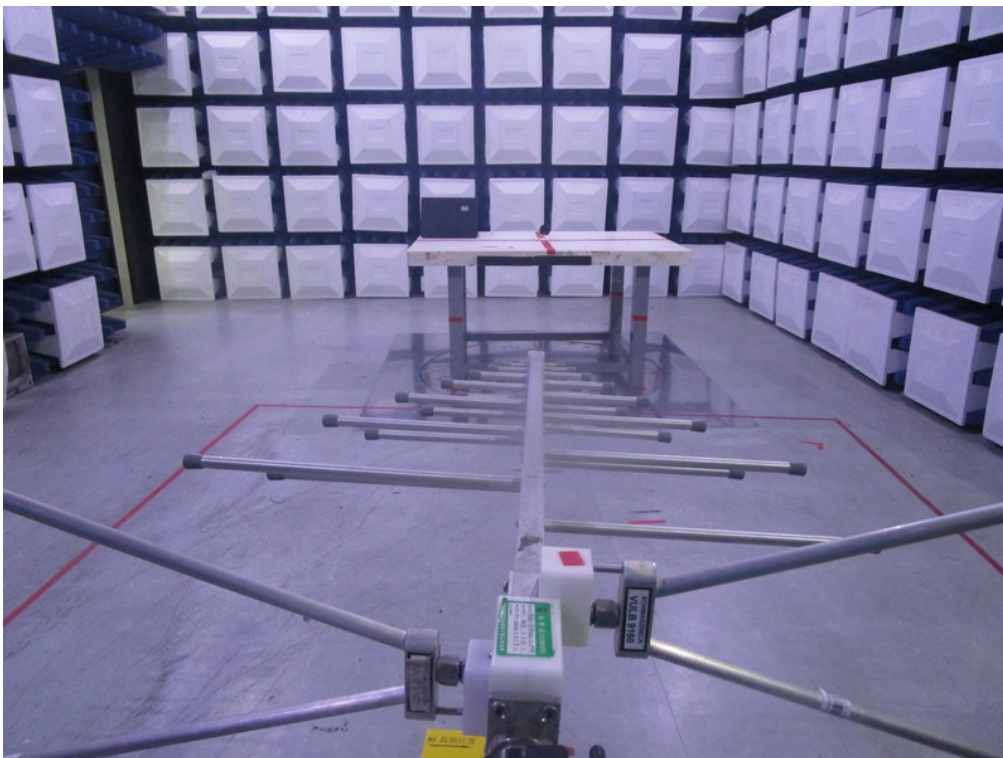
9 kHz to 30 MHz





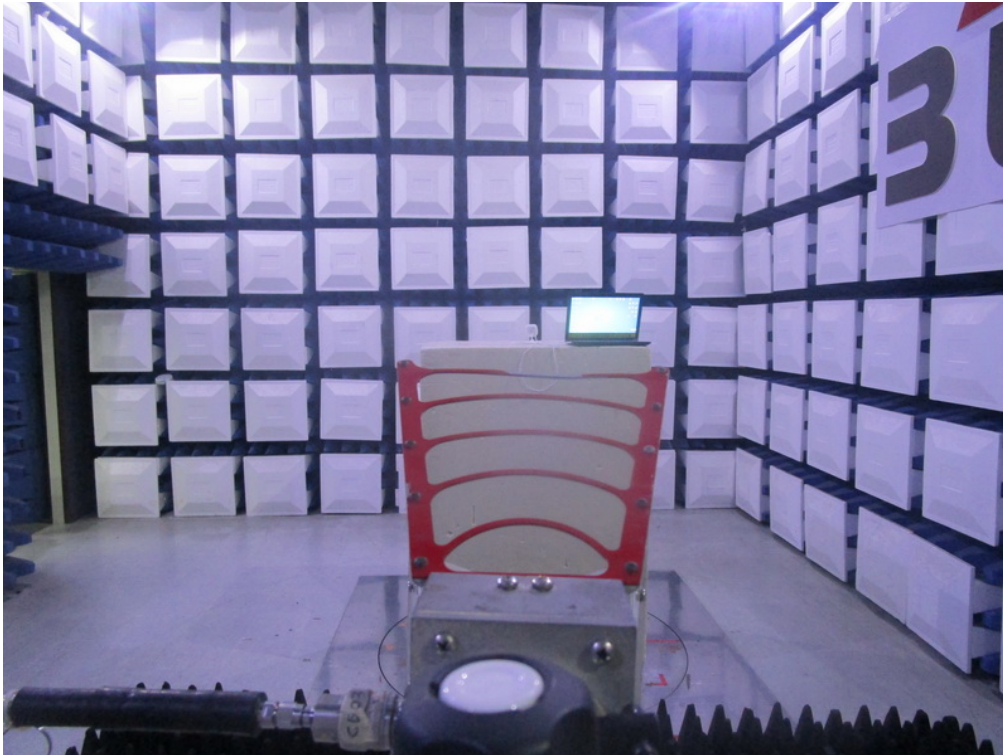
## Radiated Emissions Test Photos

30 MHz to 1 GHz



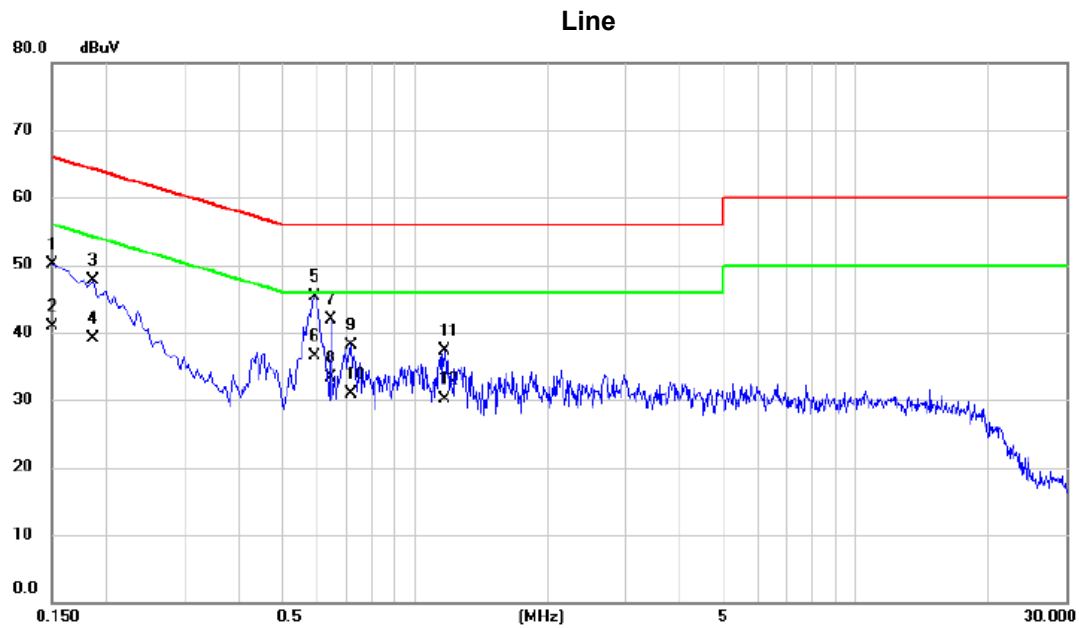
## Radiated Emissions Test Photos

Above 1 GHz



## **APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS**

Test Mode: TX G Mode Channel 06



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.1500	40.42	9.66	50.08	66.00	-15.92	QP	
2		0.1500	31.20	9.66	40.86	56.00	-15.14	AVG	
3		0.1860	37.95	9.69	47.64	64.21	-16.57	QP	
4		0.1860	29.50	9.69	39.19	54.21	-15.02	AVG	
5		0.5910	35.52	9.79	45.31	56.00	-10.69	QP	
6	*	0.5910	26.80	9.79	36.59	46.00	-9.41	AVG	
7		0.6450	32.17	9.79	41.96	56.00	-14.04	QP	
8		0.6450	23.50	9.79	33.29	46.00	-12.71	AVG	
9		0.7170	28.26	9.80	38.06	56.00	-17.94	QP	
10		0.7170	21.20	9.80	31.00	46.00	-15.00	AVG	
11		1.1715	27.44	9.84	37.28	56.00	-18.72	QP	
12		1.1715	20.30	9.84	30.14	46.00	-15.86	AVG	

## REMARKS:

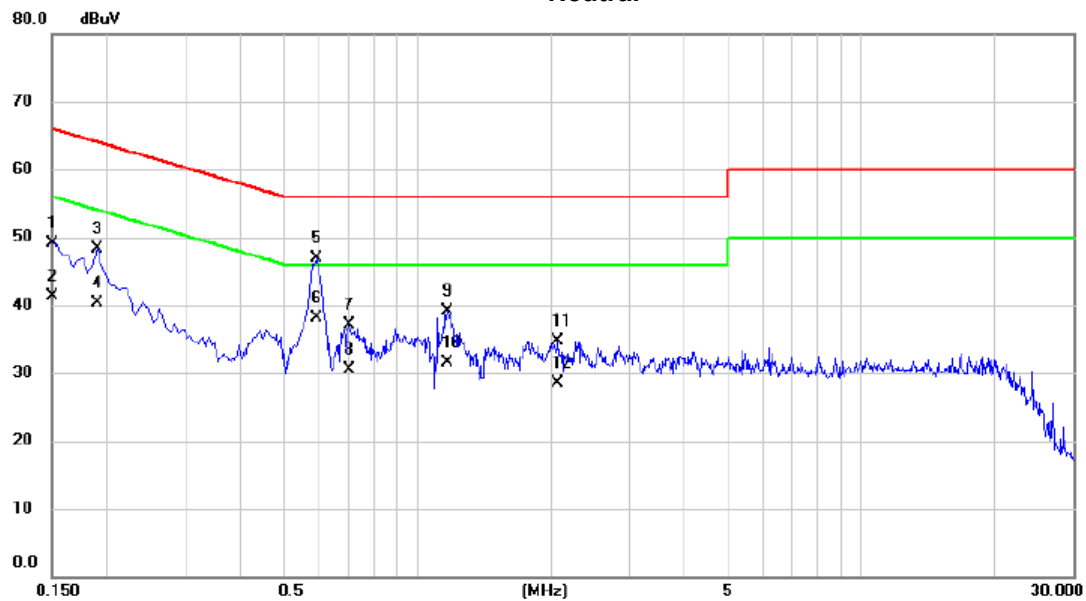
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.



Test Mode: TX G Mode Channel 06

## Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	39.42	9.71	49.13	66.00	-16.87	QP	
2		0.1500	31.50	9.71	41.21	56.00	-14.79	AVG	
3		0.1905	38.66	9.73	48.39	64.01	-15.62	QP	
4		0.1905	30.60	9.73	40.33	54.01	-13.68	AVG	
5		0.5910	37.12	9.82	46.94	56.00	-9.06	QP	
6	*	0.5910	28.30	9.82	38.12	46.00	-7.88	AVG	
7		0.7035	27.19	9.83	37.02	56.00	-18.98	QP	
8		0.7035	20.70	9.83	30.53	46.00	-15.47	AVG	
9		1.1715	29.28	9.87	39.15	56.00	-16.85	QP	
10		1.1715	21.60	9.87	31.47	46.00	-14.53	AVG	
11		2.0670	24.81	9.92	34.73	56.00	-21.27	QP	
12		2.0670	18.60	9.92	28.52	46.00	-17.48	AVG	

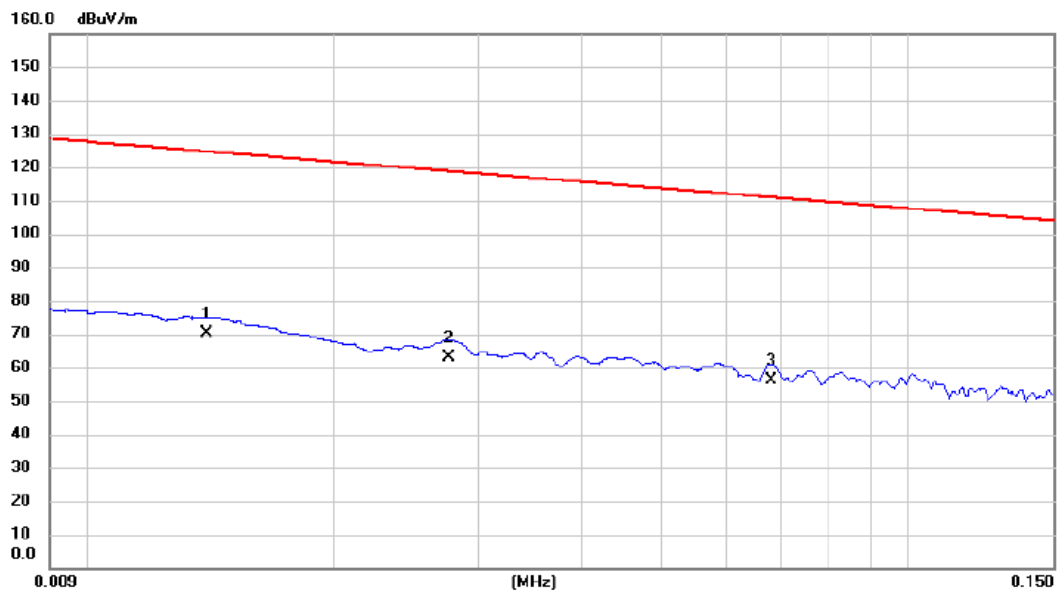
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ**

Test Mode: TX G Mode Channel 06

Ant 0°



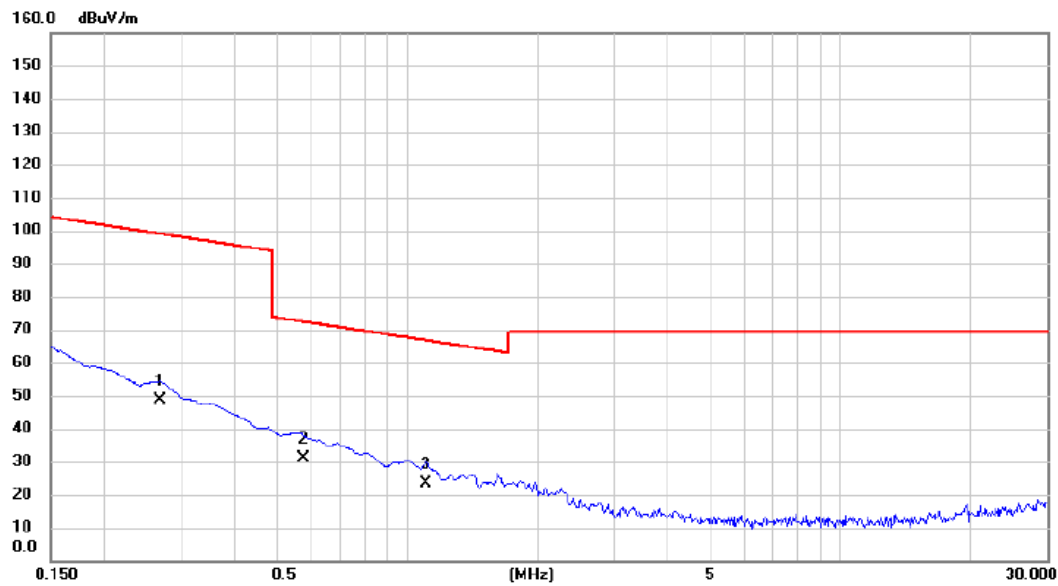
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0140	54.01	16.08	70.09	124.68	-54.59	AVG	
2		0.0276	49.10	14.09	63.19	118.79	-55.60	AVG	
3		0.0680	42.77	13.40	56.17	110.95	-54.78	AVG	

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode Channel 06

Ant 0°



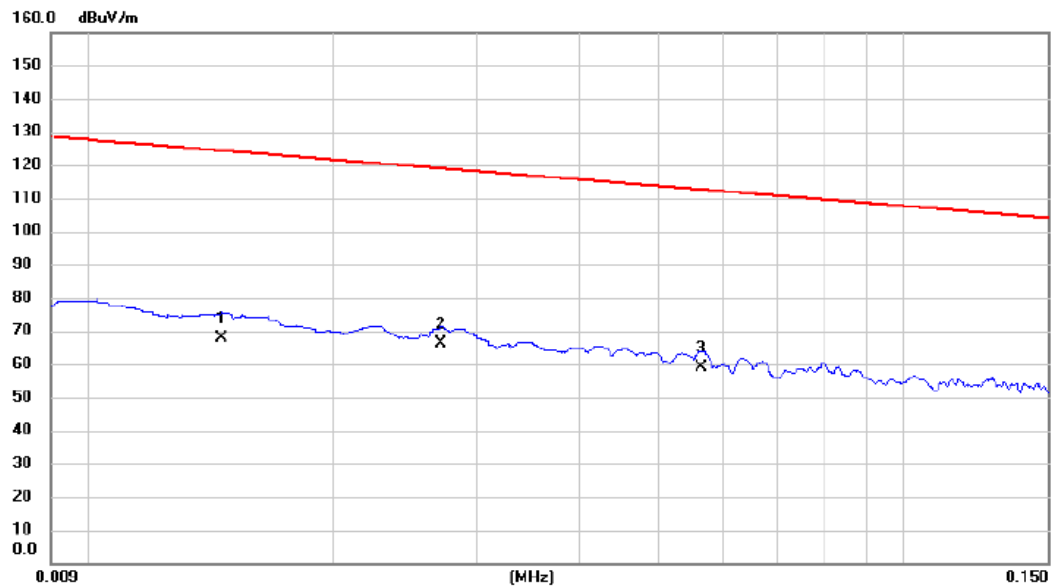
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2692	35.14	13.28	48.42	99.00	-50.58	AVG	
2	*	0.5760	18.14	12.85	30.99	72.40	-41.41	QP	
3		1.1050	11.12	12.18	23.30	66.74	-43.44	QP	

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode Channel 06

Ant 90°



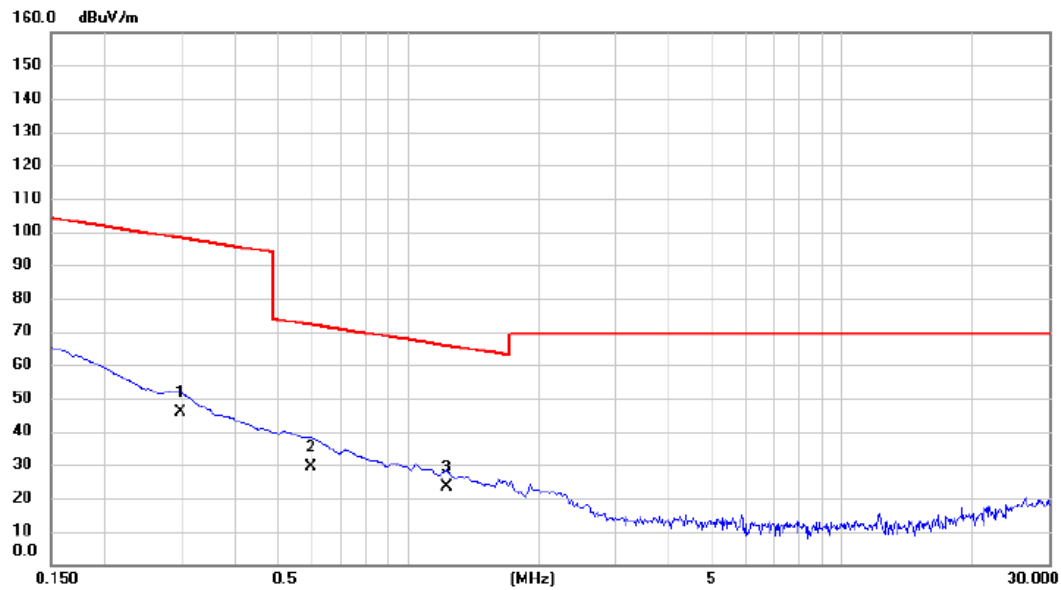
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0146	51.87	15.90	67.77	124.32	-56.55	AVG	
2	*	0.0271	52.20	14.10	66.30	118.95	-52.65	AVG	
3		0.0565	45.56	13.42	58.98	112.56	-53.58	AVG	

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode Channel 06

Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2992	32.64	13.23	45.87	98.09	-52.22	AVG	
2		0.5980	16.50	12.81	29.31	72.07	-42.76	QP	
3	*	1.2245	11.43	12.08	23.51	65.85	-42.34	QP	

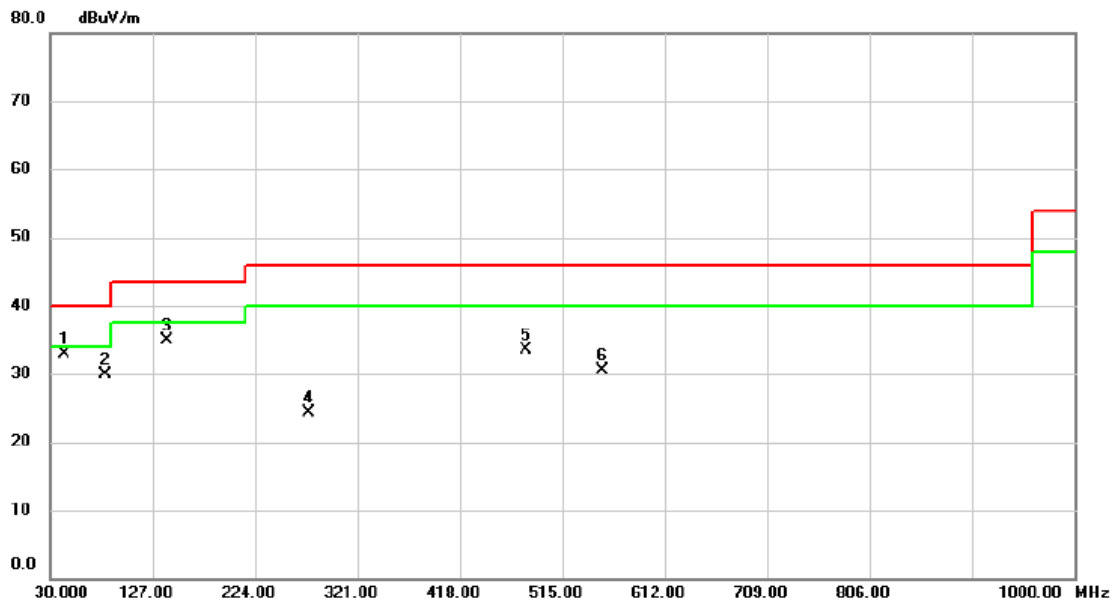
## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ**

Test Mode: TX G Mode Channel 06

## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	43.5800	47.42	-14.48	32.94	40.00	-7.06	peak	
2		82.3800	48.58	-18.67	29.91	40.00	-10.09	peak	
3		140.5800	47.93	-13.03	34.90	43.50	-8.60	peak	
4		274.4400	36.31	-12.04	24.27	46.00	-21.73	peak	
5		480.0800	40.63	-7.12	33.51	46.00	-12.49	peak	
6		552.8300	35.97	-5.53	30.44	46.00	-15.56	peak	

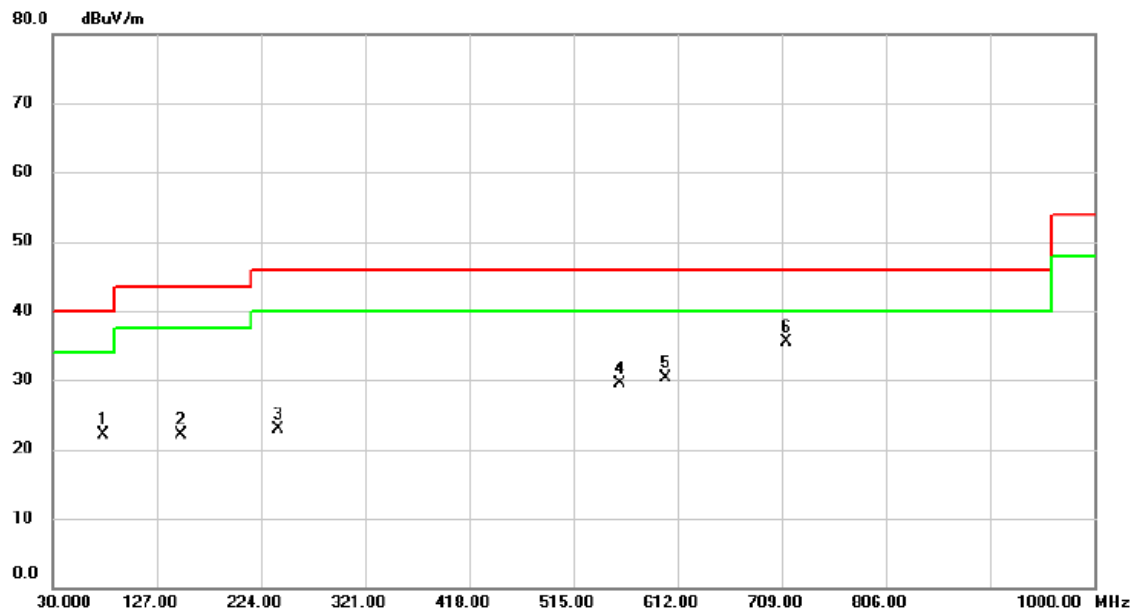
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.



Test Mode: TX G Mode Channel 06

## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		76.5600	39.92	-17.72	22.20	40.00	-17.80	peak	
2		149.3100	34.91	-12.74	22.17	43.50	-21.33	peak	
3		240.4900	36.33	-13.52	22.81	46.00	-23.19	peak	
4		558.6500	35.02	-5.44	29.58	46.00	-16.42	peak	
5		600.3600	35.10	-4.79	30.31	46.00	-15.69	peak	
6	*	713.8500	38.05	-2.63	35.42	46.00	-10.58	peak	

### REMARKS:

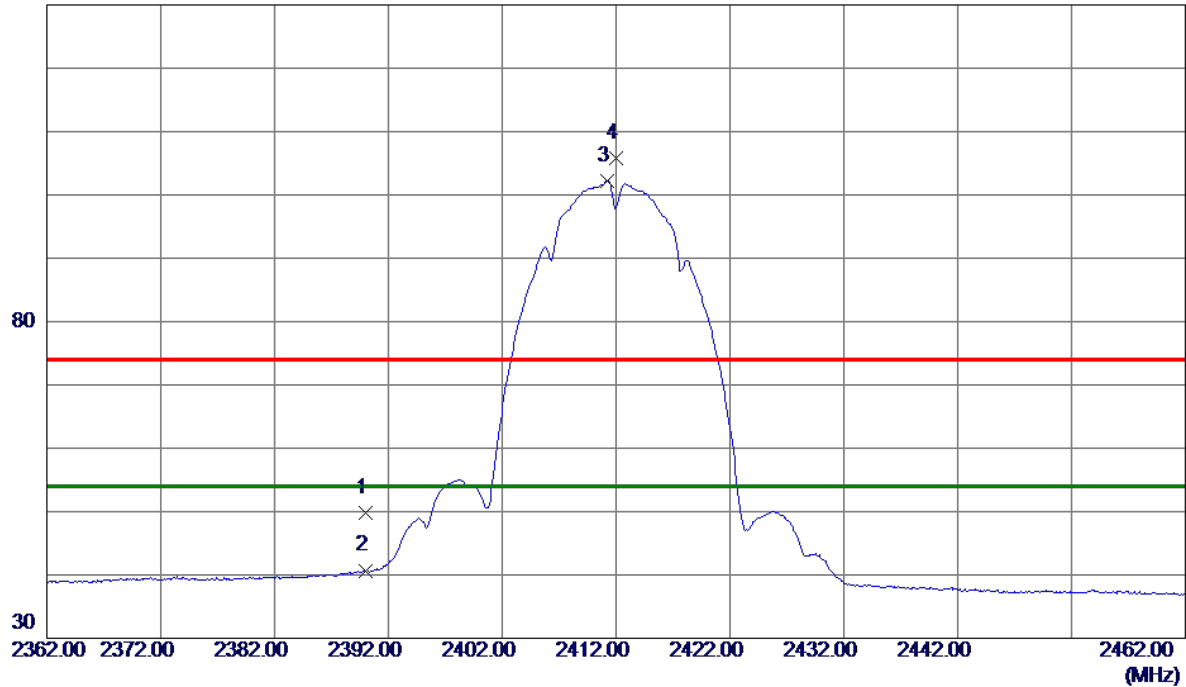
- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ**

Test Mode: TX B Mode 2412 MHz

## Vertical

130 dBuV/m



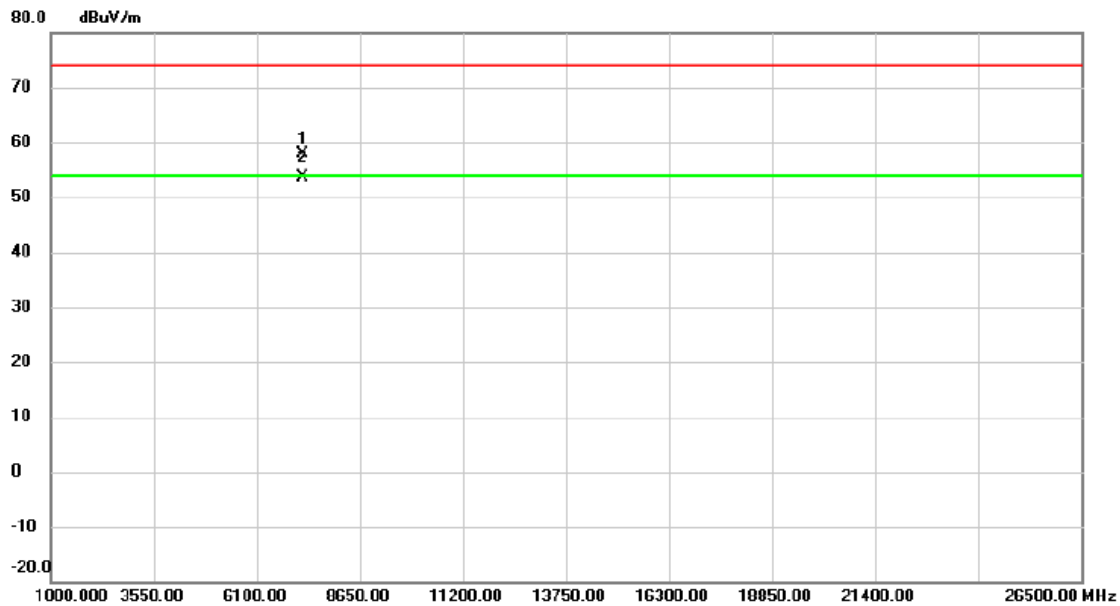
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	42.24	7.56	49.80	74.00	-24.20	Peak	
2	2390.0000	33.14	7.56	40.70	54.00	-13.30	AVG	
3 *	2411.2500	94.53	7.64	102.17	54.00	48.17	AVG	No Limit
4	2412.0500	98.10	7.64	105.74	74.00	31.74	Peak	No Limit

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2412 MHz

## Vertical



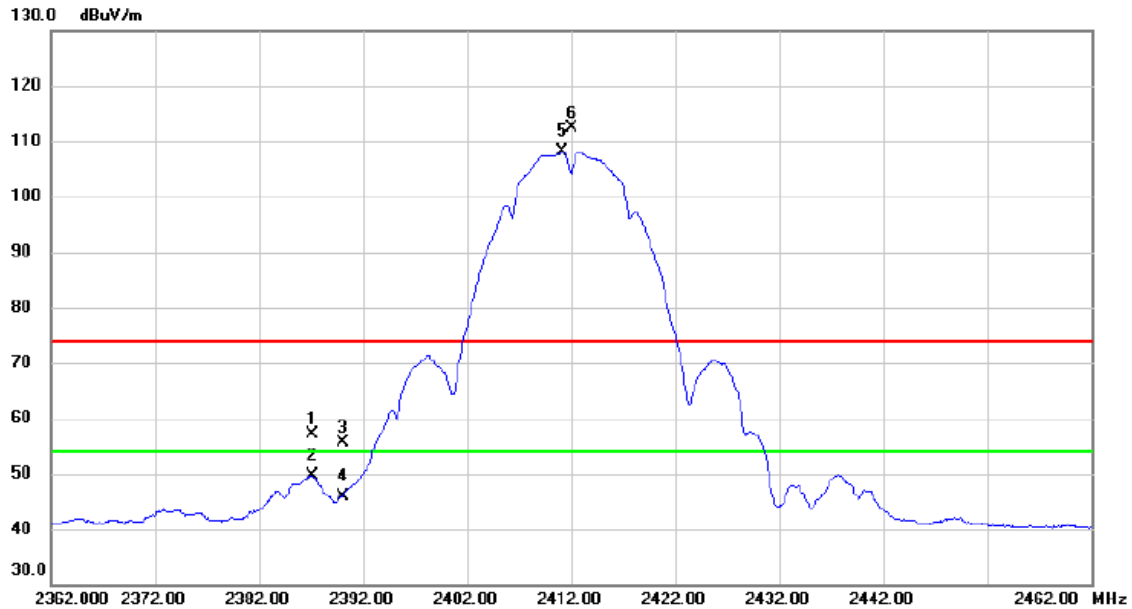
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		7234.680	48.14	9.79	57.93	74.00	-16.07	peak	
2	*	7236.690	43.84	9.79	53.63	54.00	-0.37	AVG	

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2412 MHz

## Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2387.200	49.92	7.16	57.08	74.00	-16.92	peak	
2		2387.200	42.45	7.16	49.61	54.00	-4.39	AVG	
3		2390.000	48.56	7.17	55.73	74.00	-18.27	peak	
4		2390.000	38.78	7.17	45.95	54.00	-8.05	AVG	
5	*	2411.200	101.0	7.17	108.23	54.00	54.23	AVG	No Limit
6	X	2412.000	105.2	7.17	112.43	74.00	38.43	peak	No Limit

### REMARKS:

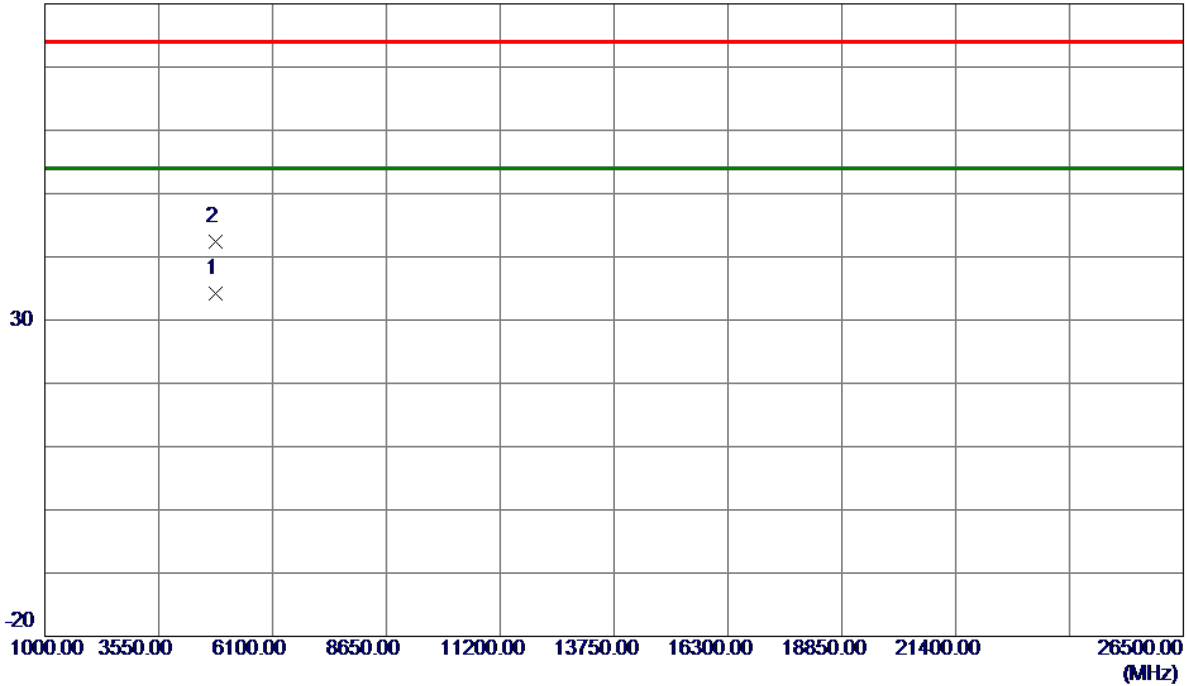
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX B Mode 2412 MHz
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## Horizontal

80 dBuV/m



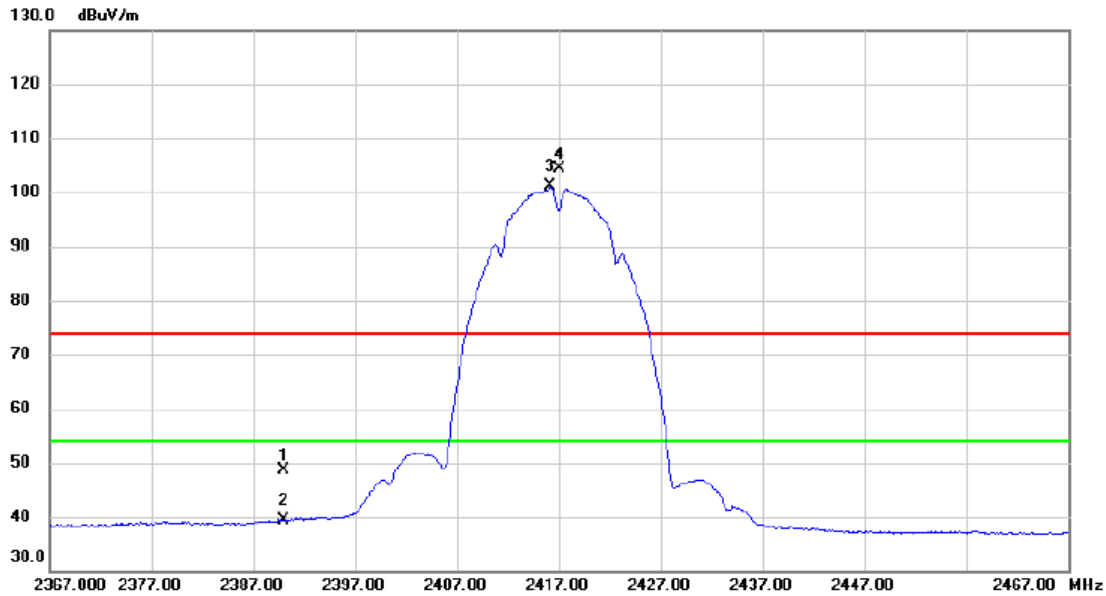
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.8600	29.87	4.25	34.12	54.00	-19.88	AVG	
2	4824.0800	38.15	4.26	42.41	74.00	-31.59	Peak	

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2417 MHz

## Vertical



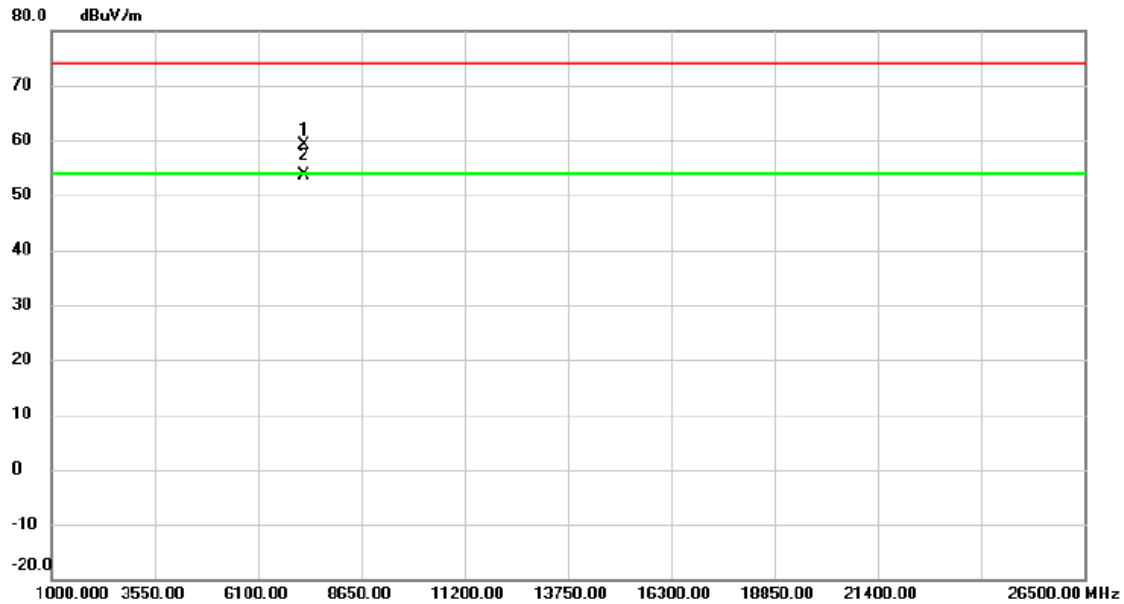
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	41.08	7.57	48.65	74.00	-25.35	peak	
2		2390.000	31.86	7.57	39.43	54.00	-14.57	AVG	
3	*	2416.200	93.35	7.66	101.01	54.00	47.01	AVG	No Limit
4	X	2417.050	96.81	7.66	104.47	74.00	30.47	peak	No Limit

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX B Mode 2417 MHz
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## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		7250.920	49.26	9.81	59.07	74.00	-14.93	peak	
2	*	7251.730	43.94	9.81	53.75	54.00	-0.25	AVG	

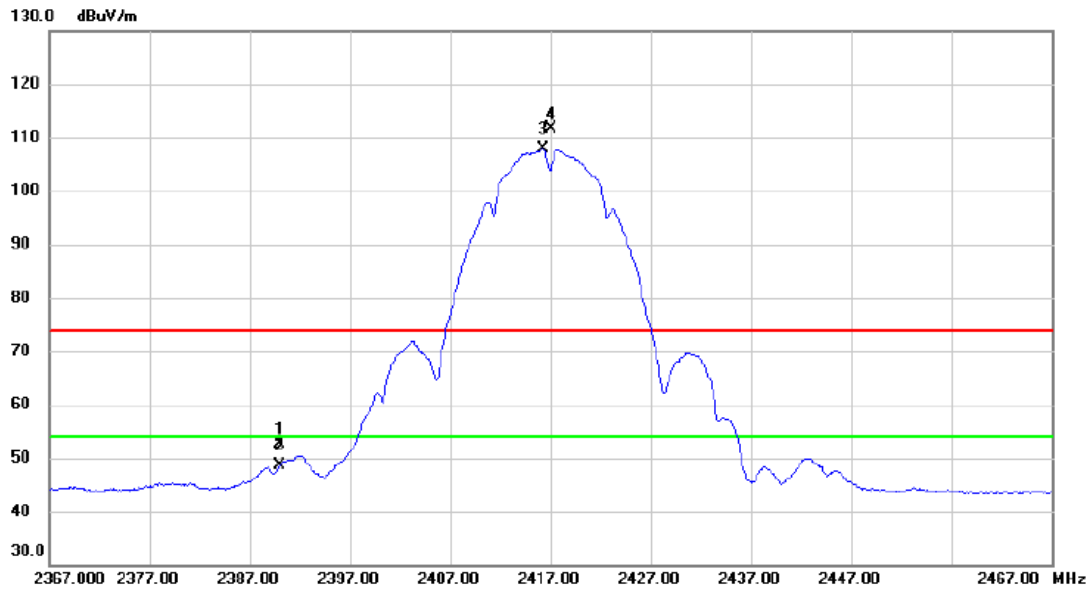
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode: TX B Mode 2417 MHz

## 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	45.52	7.17	52.69	74.00	-21.31	peak	
2		2390.000	41.49	7.17	48.66	54.00	-5.34	AVG	
3	*	2416.300	100.6	7.17	107.83	54.00	53.83	AVG	No Limit
4	X	2417.100	104.3	7.18	111.53	74.00	37.53	peak	No Limit

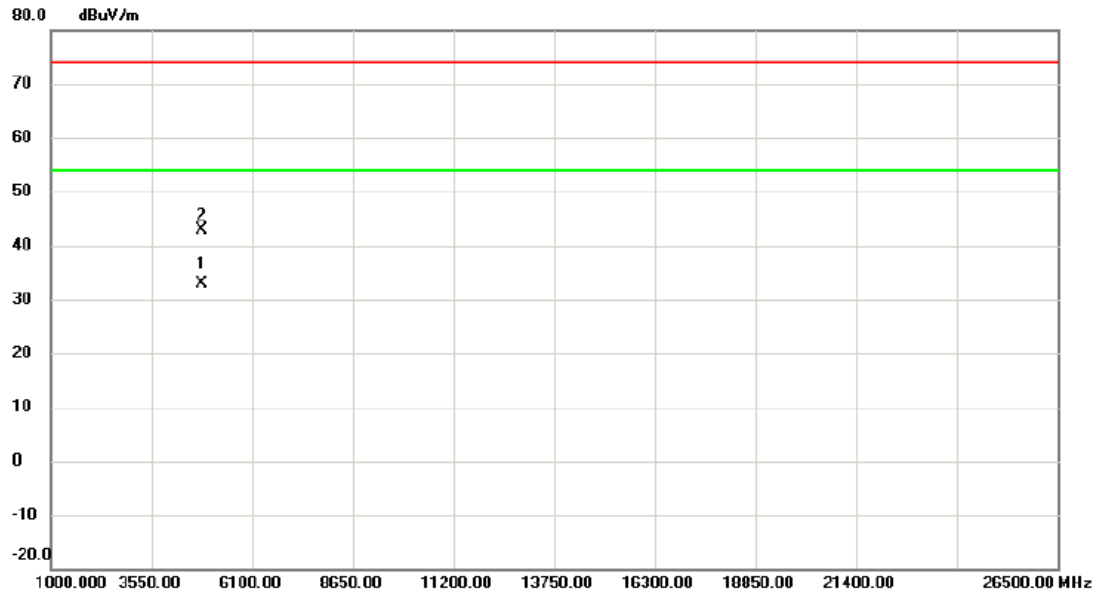
### REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX B Mode 2417 MHz
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## Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4833.990	28.48	4.29	32.77	54.00	-21.23	AVG	
2		4834.415	38.51	4.30	42.81	74.00	-31.19	peak	

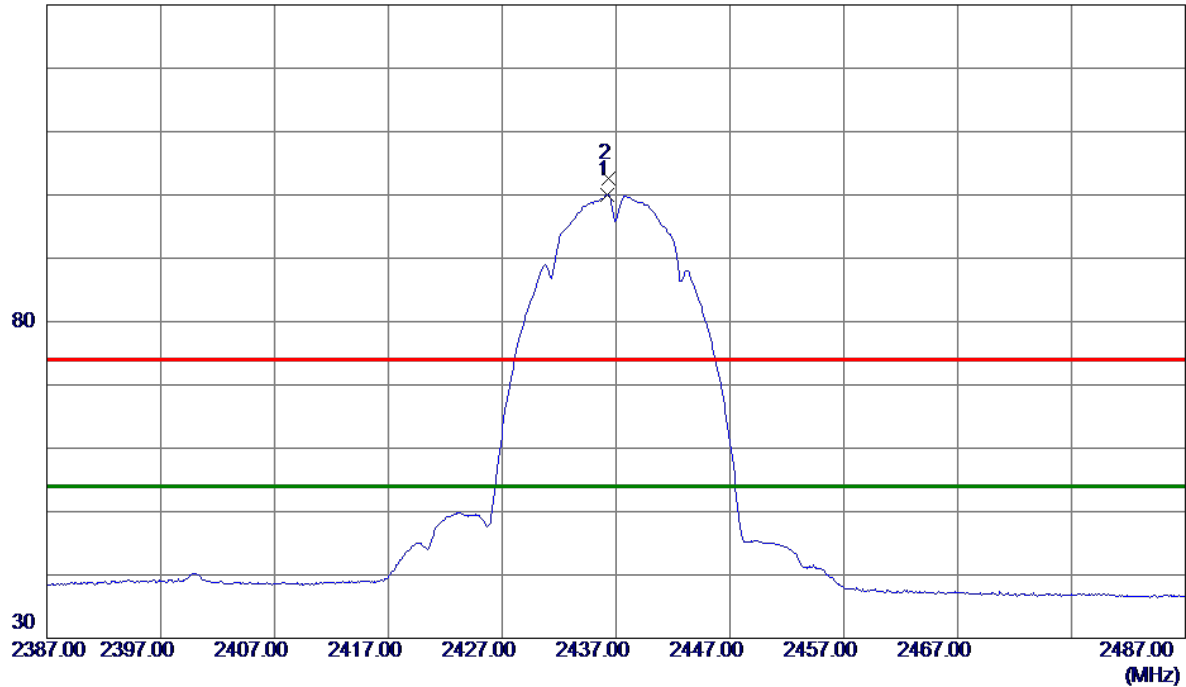
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2437 MHz

## Vertical

130 dBuV/m



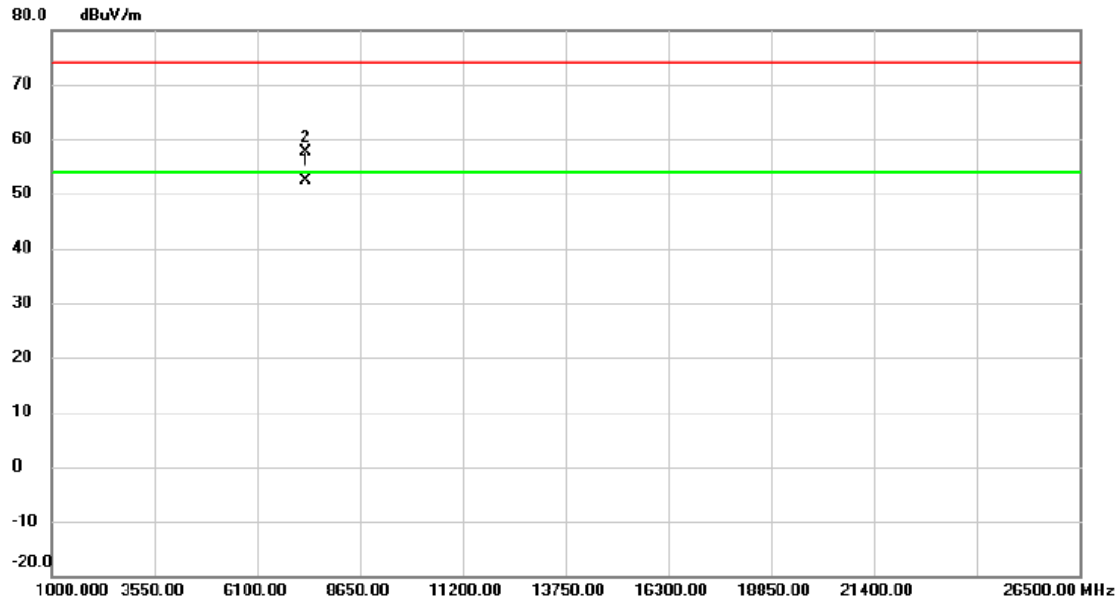
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.2000	92.35	7.72	100.07	54.00	46.07	AVG	No Limit
2	2436.3000	94.96	7.72	102.68	74.00	28.68	Peak	No Limit

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2437 MHz

## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	7311.730	42.63	9.86	52.49	54.00	-1.51	AVG	
2		7312.460	47.86	9.86	57.72	74.00	-16.28	peak	

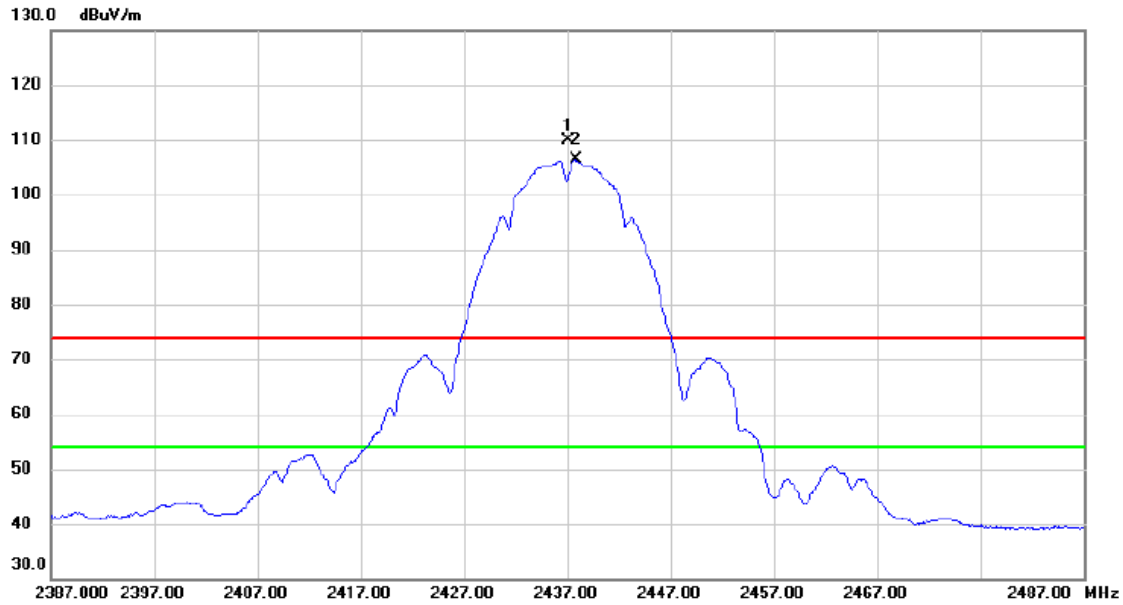
### REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2437 MHz

## 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	102.8	7.18	109.98	74.00	35.98	peak	No Limit
2	*	2437.800	99.13	7.18	106.31	54.00	52.31	AVG	No Limit

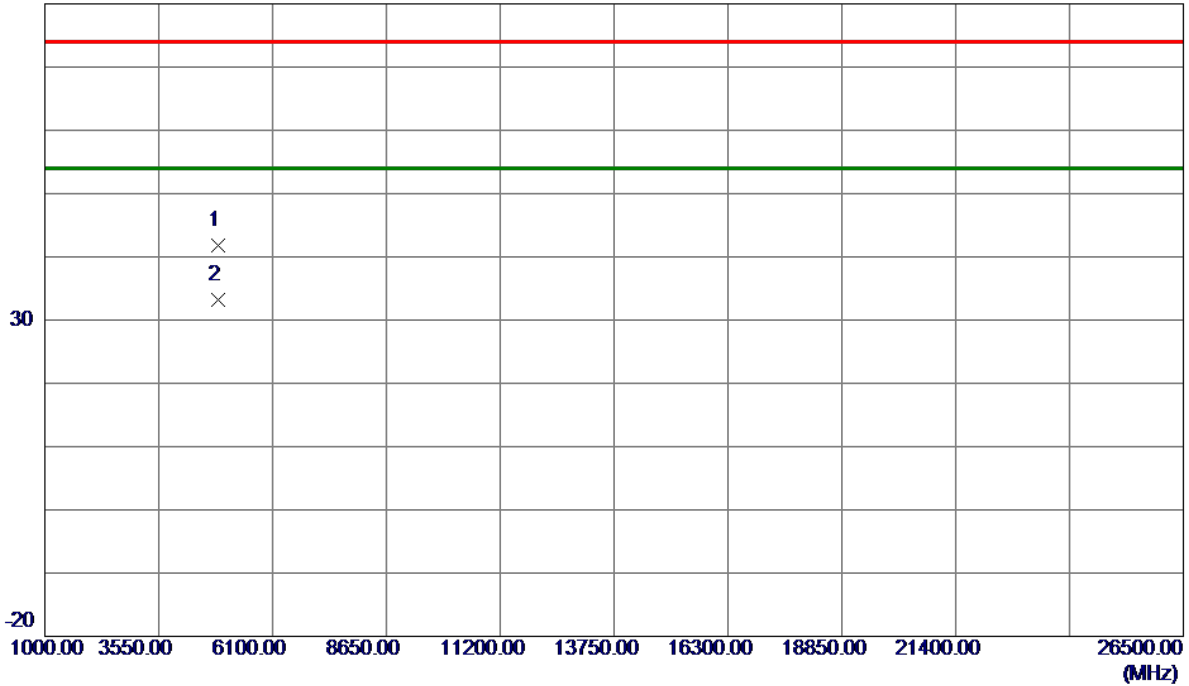
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX B Mode 2437 MHz
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### Horizontal

80 dBuV/m



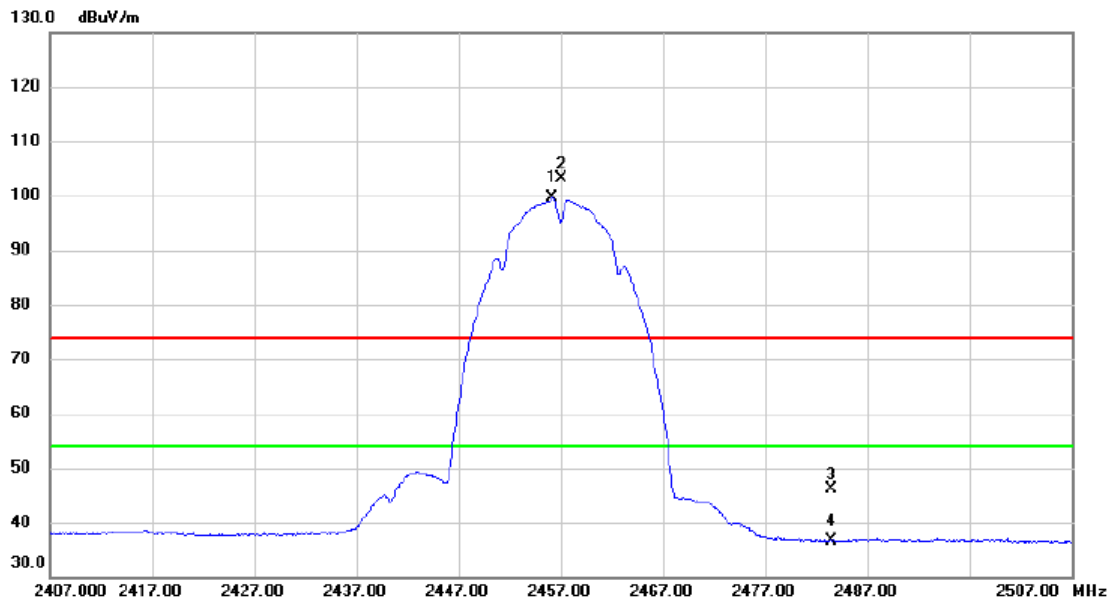
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.7550	37.44	4.44	41.88	74.00	-32.12	Peak	
2 *	4873.9900	28.74	4.44	33.18	54.00	-20.82	AVG	

#### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2457 MHz

## Vertical



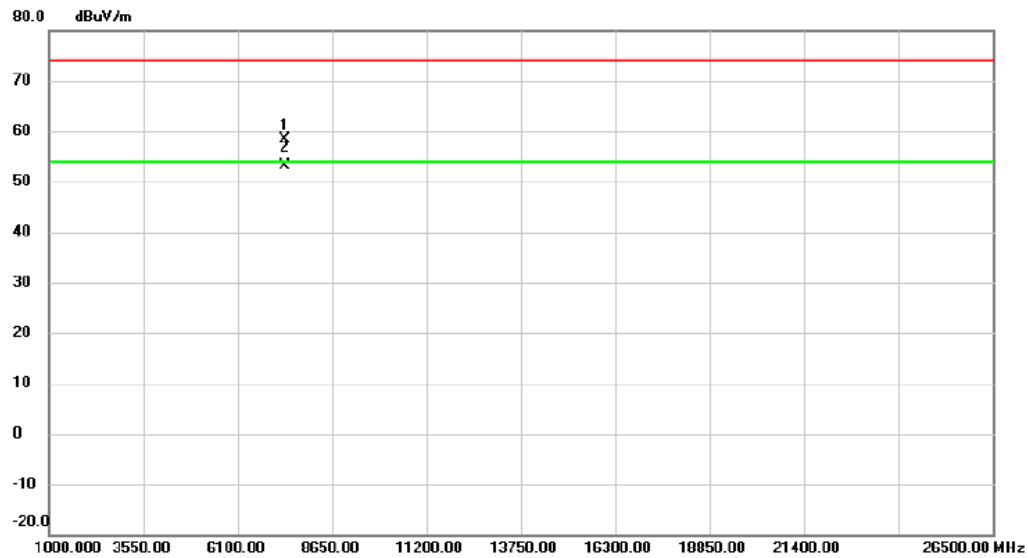
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2456.200	91.78	7.78	99.56	54.00	45.56	AVG	No Limit
2	X	2457.100	95.33	7.79	103.12	74.00	29.12	peak	No Limit
3		2483.500	38.34	7.87	46.21	74.00	-27.79	peak	
4		2483.500	28.84	7.87	36.71	54.00	-17.29	AVG	

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX B Mode 2457 MHz
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## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		7370.870	48.50	9.91	58.41	74.00	-15.59	peak	
2	*	7371.820	43.27	9.91	53.18	54.00	-0.82	AVG	

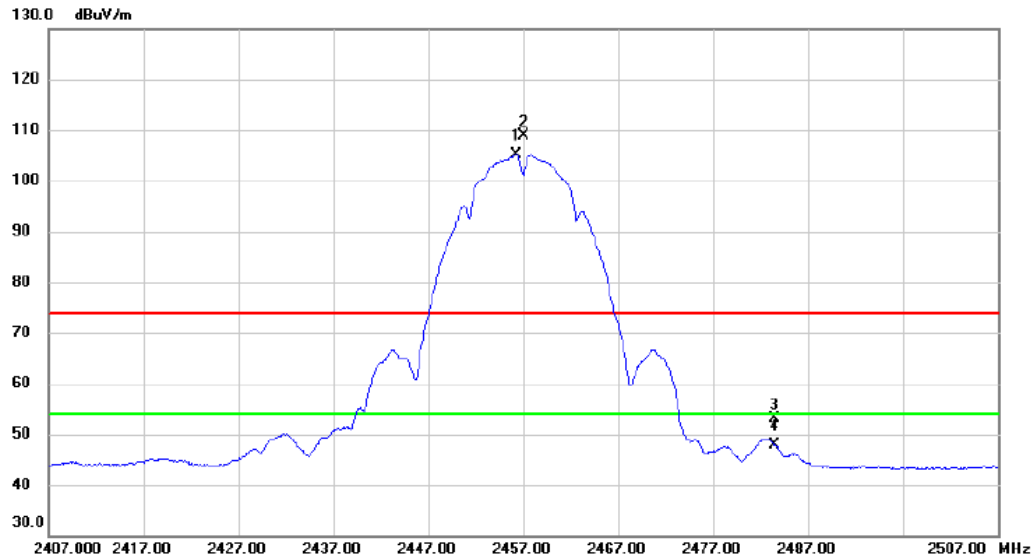
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode: TX B Mode 2457 MHz

## Horizontal



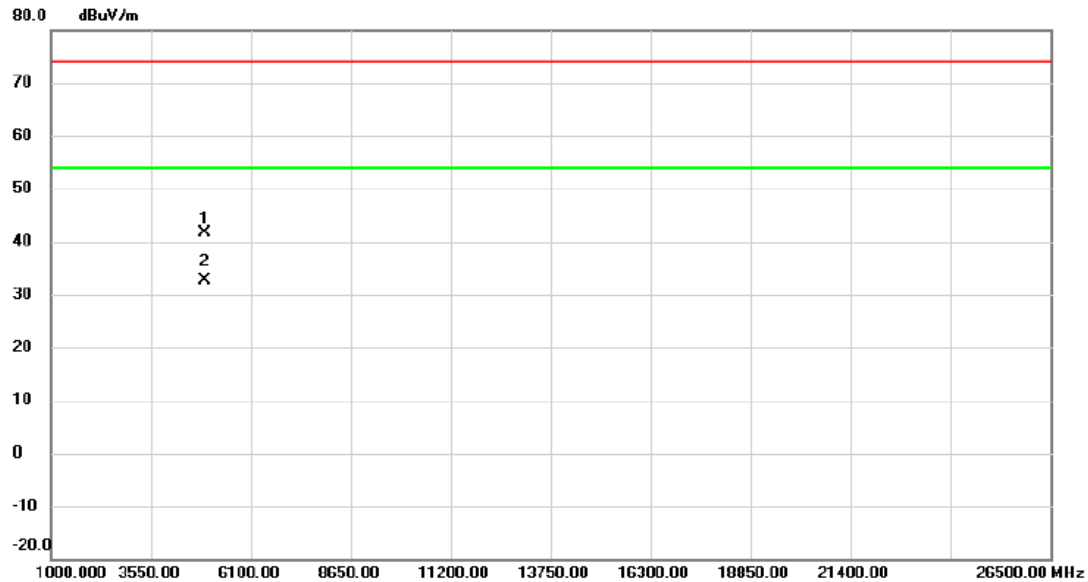
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2456.300	98.04	7.19	105.23	54.00	51.23	AVG	No Limit
2	X	2457.000	101.7	7.19	108.97	74.00	34.97	peak	No Limit
3		2483.500	45.86	7.20	53.06	74.00	-20.94	peak	
4		2483.500	40.74	7.20	47.94	54.00	-6.06	AVG	

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2457 MHz

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4913.940	37.02	4.58	41.60	74.00	-32.40	peak	
2	*	4913.970	28.04	4.58	32.62	54.00	-21.38	AVG	

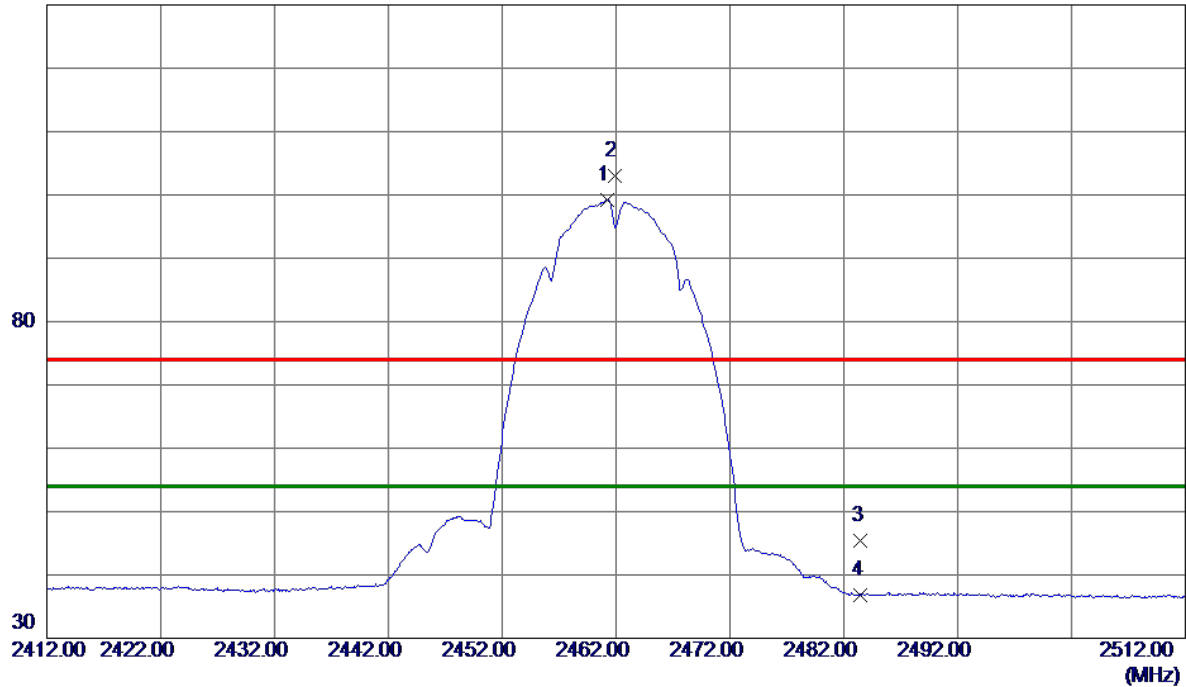
#### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2462 MHz

## Vertical

130 dBuV/m



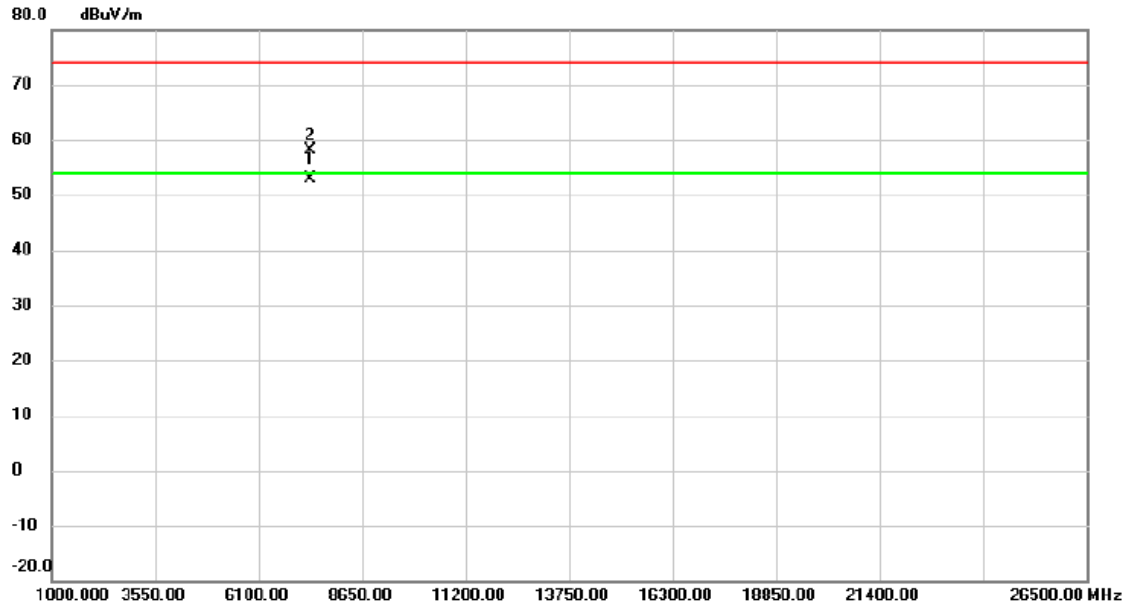
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.2500	91.49	7.80	99.29	54.00	45.29	AVG	No Limit
2	2461.9000	95.10	7.80	102.90	74.00	28.90	Peak	No Limit
3	2483.5000	37.55	7.88	45.43	74.00	-28.57	Peak	
4	2483.5000	28.96	7.88	36.84	54.00	-17.16	AVG	

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2462 MHz

## Vertical



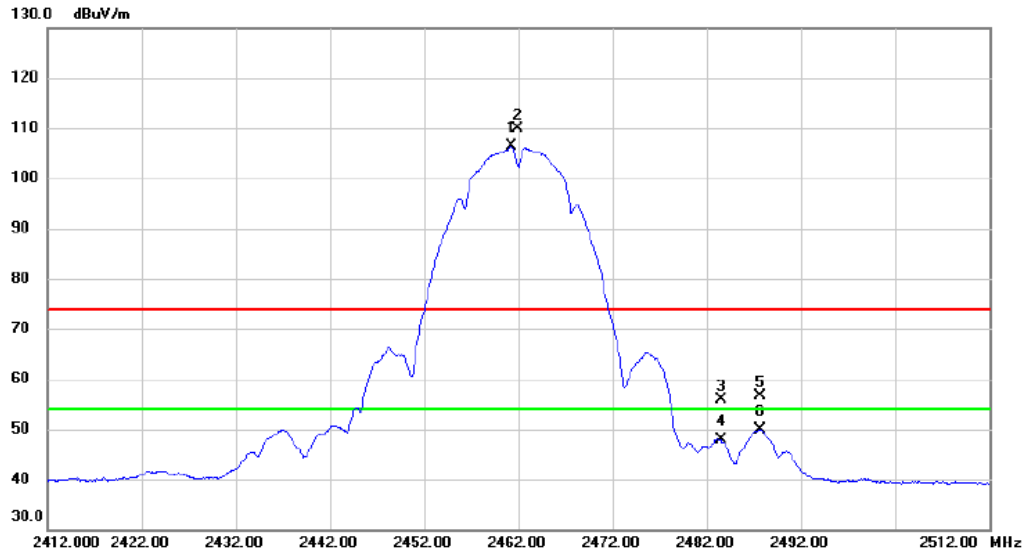
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	7386.770	42.96	9.93	52.89	54.00	-1.11	AVG	
2		7387.060	48.28	9.93	58.21	74.00	-15.79	peak	

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B Mode 2462 MHz

## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2461.300	99.10	7.18	106.28	54.00	52.28	AVG	No Limit
2	X	2461.900	102.7	7.18	109.97	74.00	35.97	peak	No Limit
3		2483.500	48.74	7.20	55.94	74.00	-18.06	peak	
4		2483.500	40.56	7.20	47.76	54.00	-6.24	AVG	
5		2487.700	49.45	7.19	56.64	74.00	-17.36	peak	
6		2487.700	42.74	7.19	49.93	54.00	-4.07	AVG	

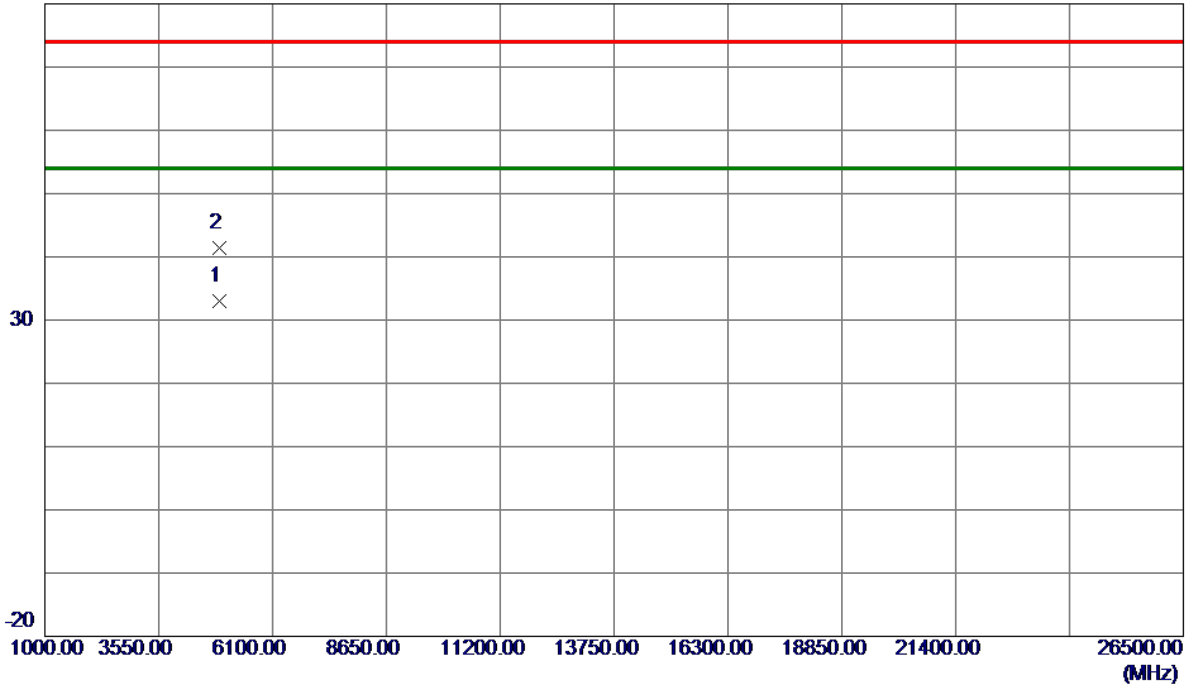
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX B Mode 2462 MHz
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## Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.9550	28.34	4.63	32.97	54.00	-21.03	AVG	
2	4924.0000	36.82	4.63	41.45	74.00	-32.55	Peak	

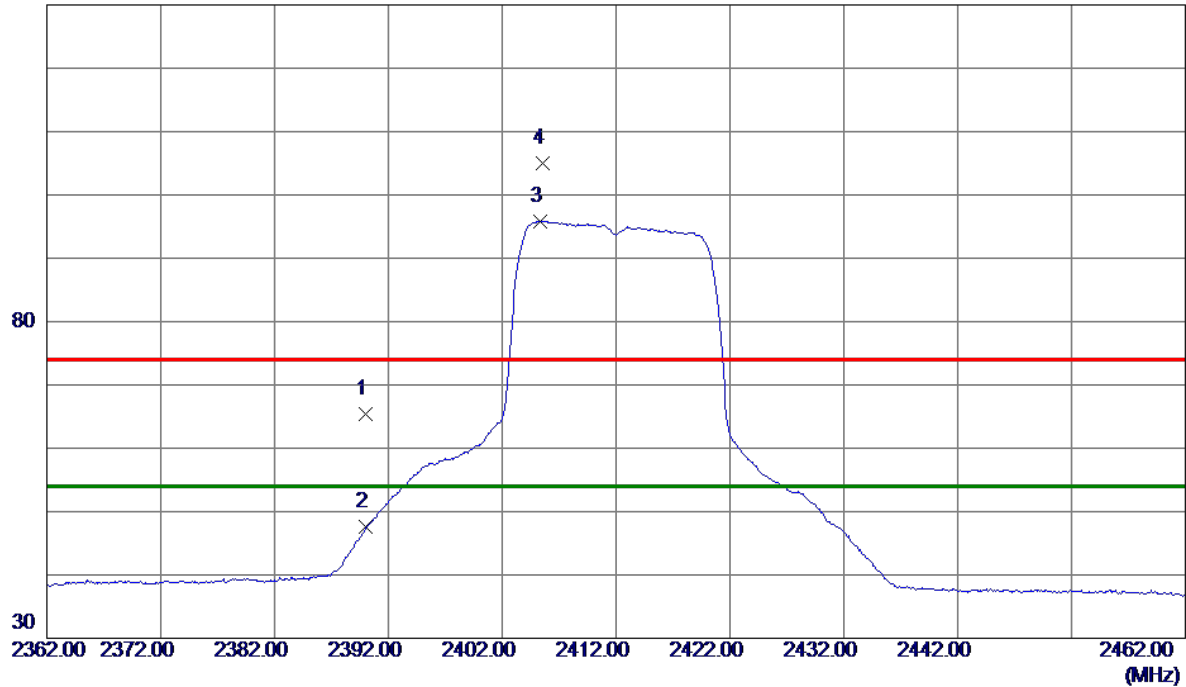
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2412 MHz

## Vertical

130 dBuV/m



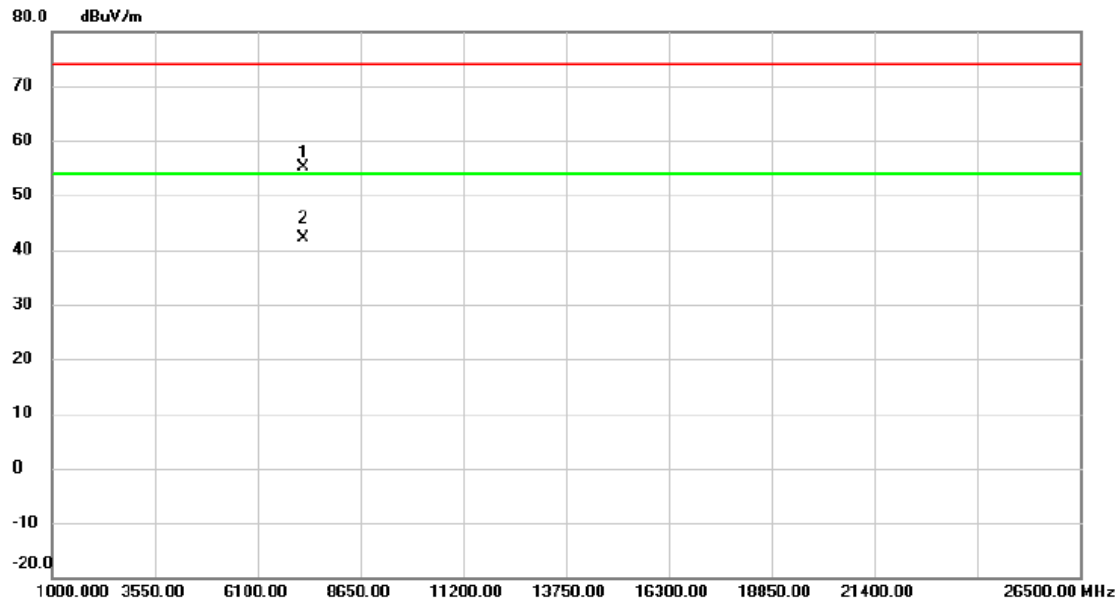
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	57.91	7.56	65.47	74.00	-8.53	Peak	
2	2390.0000	39.96	7.56	47.52	54.00	-6.48	AVG	
3 *	2405.3500	88.19	7.62	95.81	54.00	41.81	AVG	No Limit
4	2405.5500	97.41	7.62	105.03	74.00	31.03	Peak	No Limit

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX G Mode 2412 MHz
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## Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7236.540	45.37	9.79	55.16	74.00	-18.84	peak	
2 *	7240.120	32.42	9.79	42.21	54.00	-11.79	AVG	

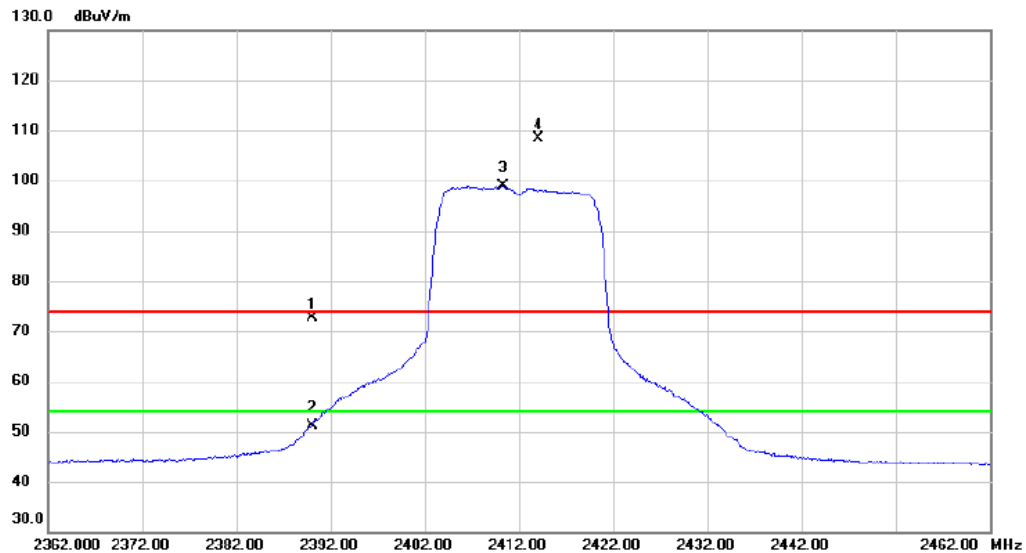
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.



Test Mode: TX G Mode 2412 MHz

## 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	65.45	7.17	72.62	74.00	-1.38	peak	
2		2390.000	43.98	7.17	51.15	54.00	-2.85	AVG	
3	*	2410.300	91.72	7.16	98.88	54.00	44.88	AVG	No Limit
4	X	2414.100	101.2	7.17	108.46	74.00	34.46	peak	No Limit

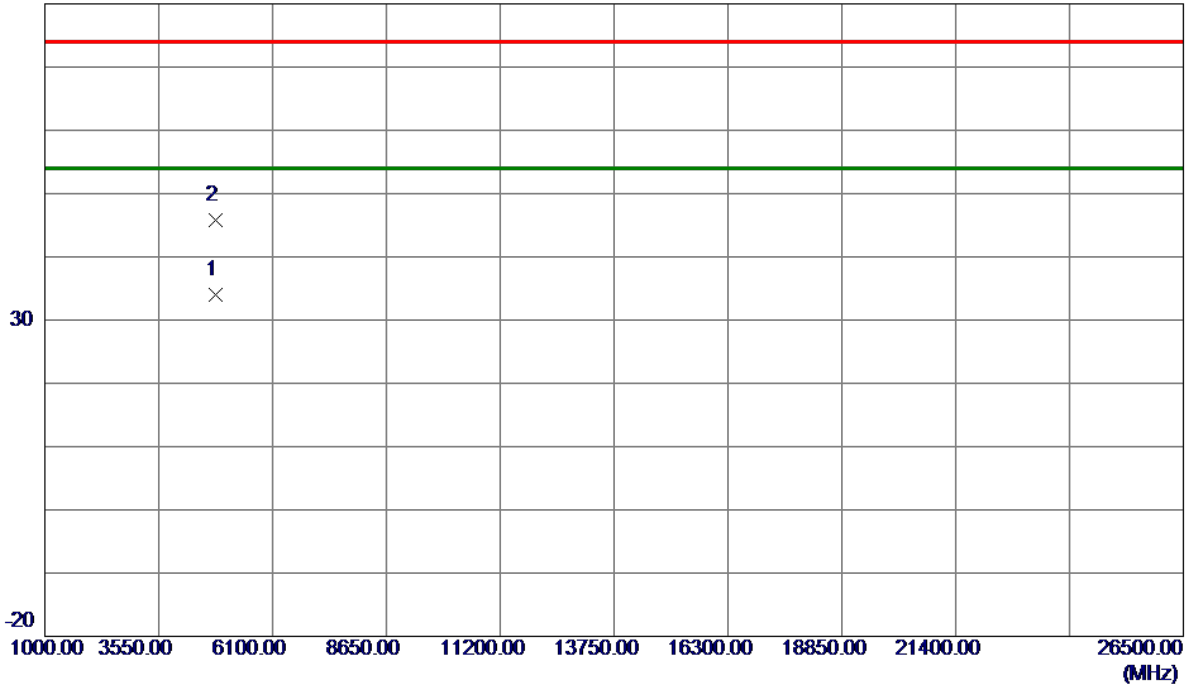
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX G Mode 2412 MHz
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### Horizontal

80 dBuV/m



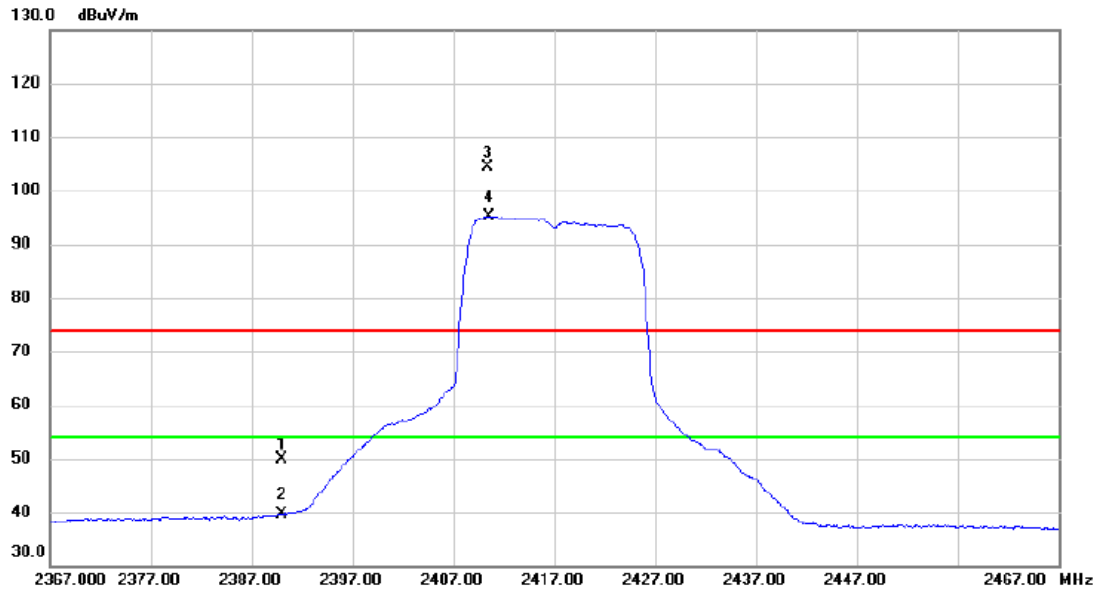
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.2000	29.23	4.74	33.97	54.00	-20.03	AVG	
2	4825.0000	41.01	4.75	45.76	74.00	-28.24	Peak	

#### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2417 MHz

## Vertical



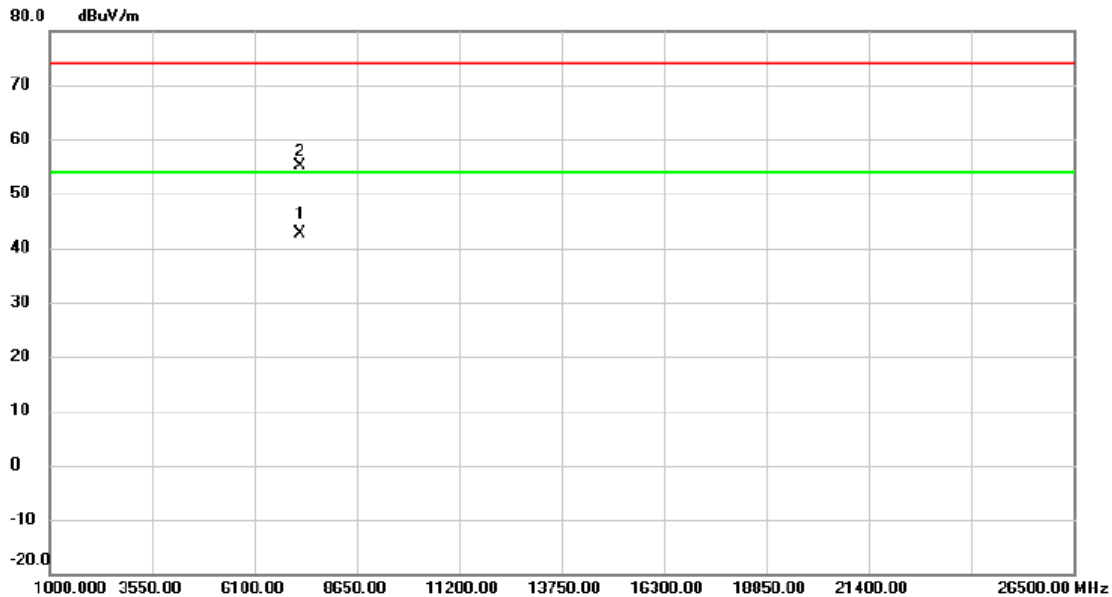
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	42.40	7.57	49.97	74.00	-24.03	peak	
2		2390.000	32.08	7.57	39.65	54.00	-14.35	AVG	
3	X	2410.350	96.64	7.63	104.27	74.00	30.27	peak	No Limit
4	*	2410.500	87.48	7.63	95.11	54.00	41.11	AVG	No Limit

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2417 MHz

## Vertical



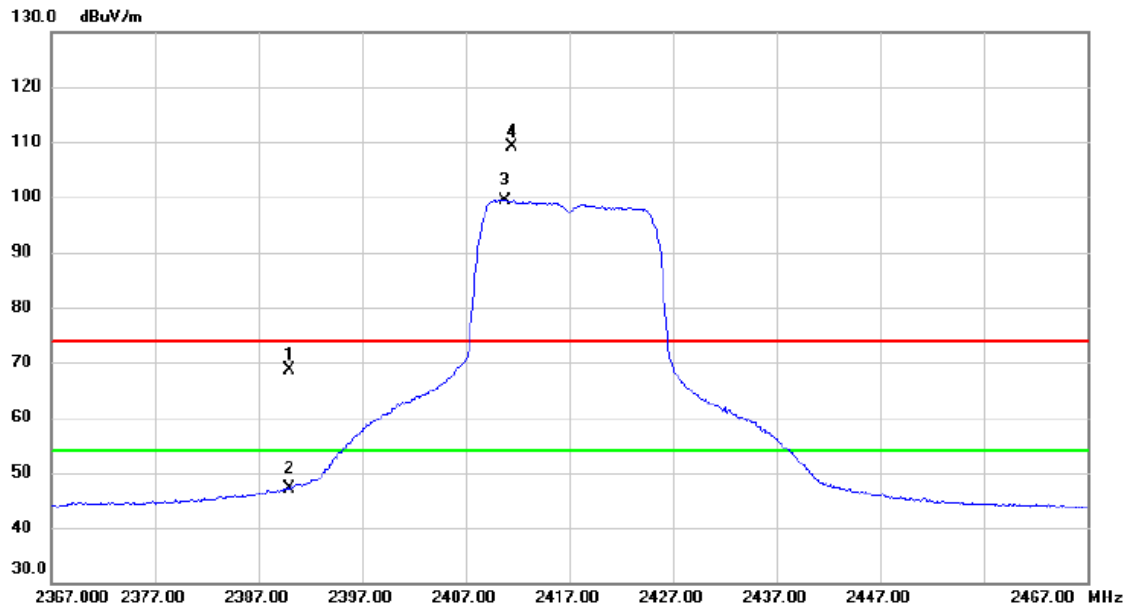
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	7248.610	32.78	9.80	42.58	54.00	-11.42	AVG	
2		7248.730	45.35	9.80	55.15	74.00	-18.85	peak	

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2417 MHz

## 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	61.58	7.17	68.75	74.00	-5.25	peak	
2		2390.000	40.07	7.17	47.24	54.00	-6.76	AVG	
3	*	2410.800	92.31	7.16	99.47	54.00	45.47	AVG	No Limit
4	X	2411.500	101.8	7.17	109.05	74.00	35.05	peak	No Limit

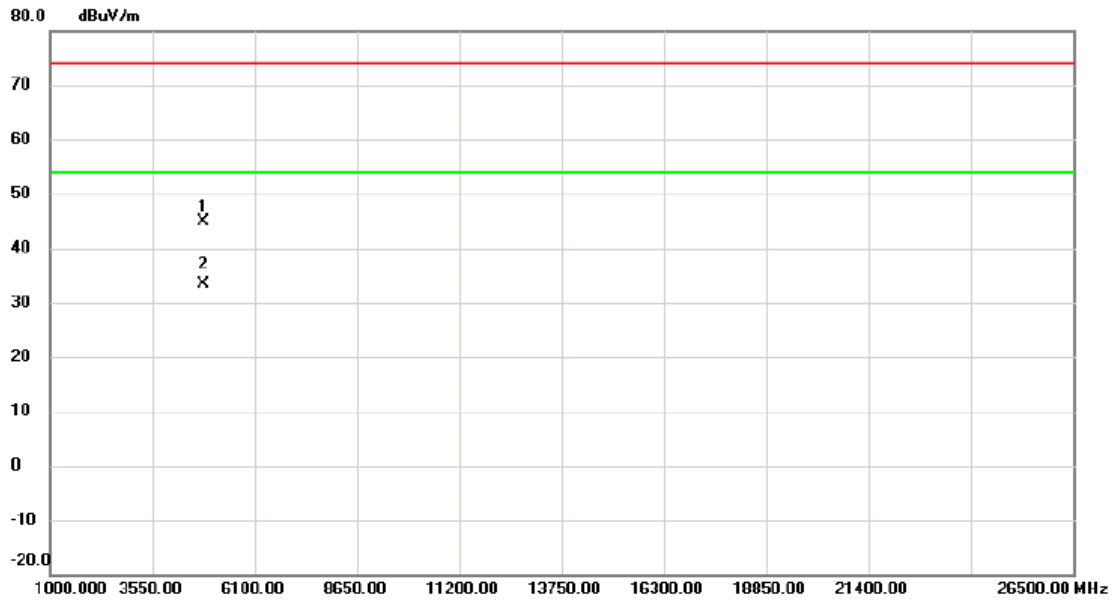
### REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX G Mode 2417 MHz
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## Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.175	40.17	4.74	44.91	74.00	-29.09	peak	
2	*	4836.375	28.64	4.80	33.44	54.00	-20.56	AVG	

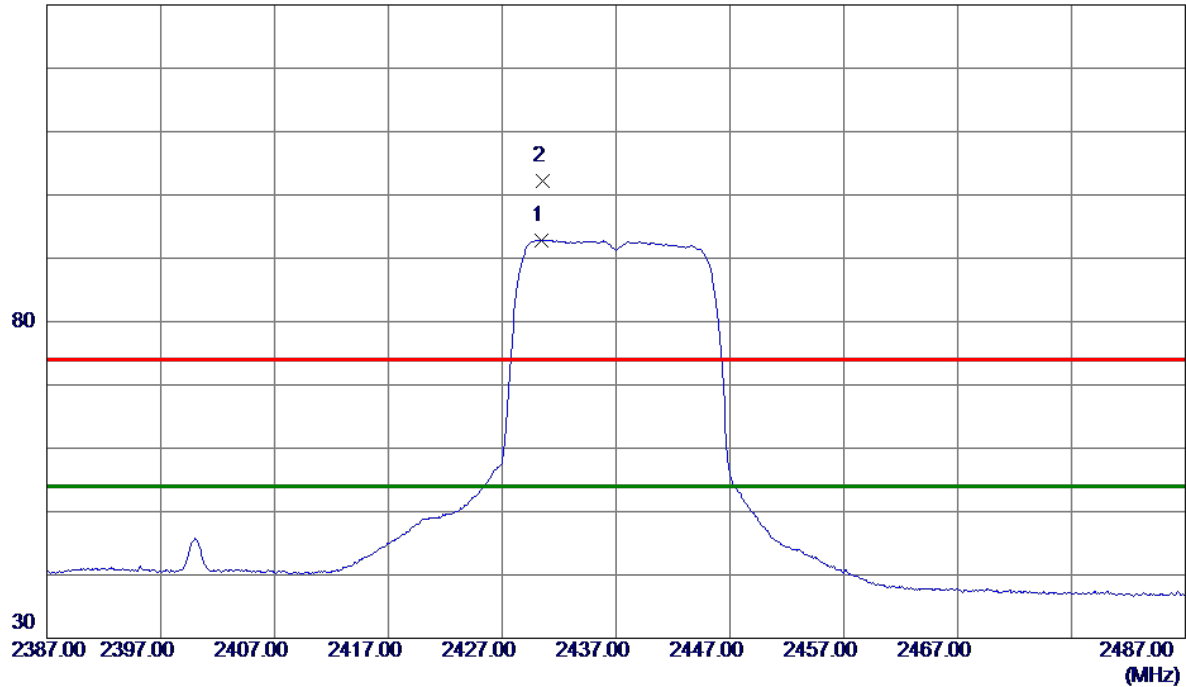
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2437 MHz

## Vertical

130 dBuV/m



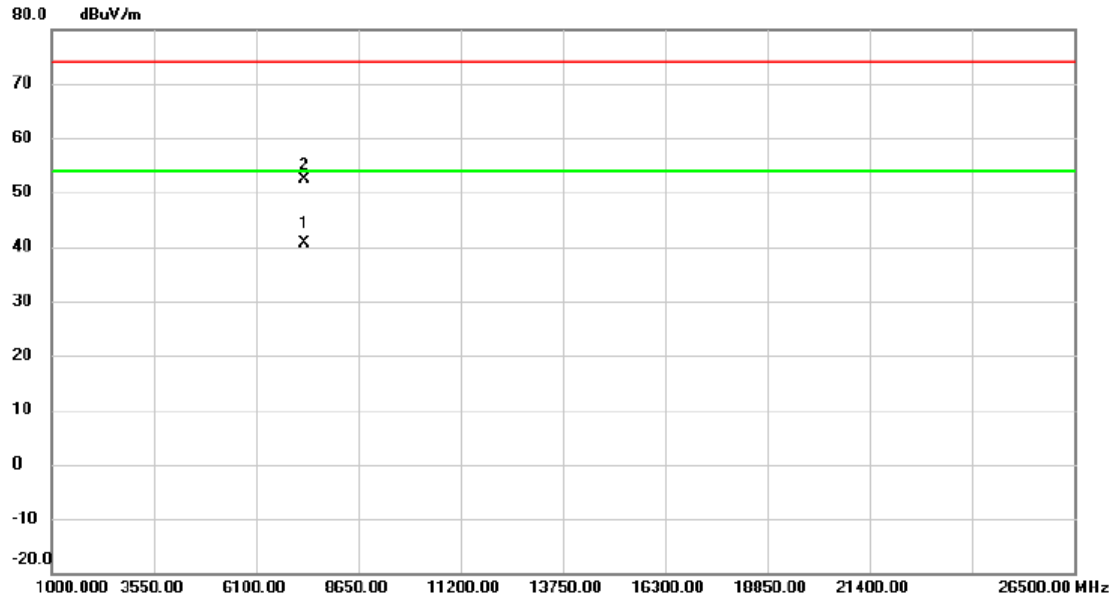
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2430.4500	85.16	7.70	92.86	54.00	38.86	AVG	No Limit
2	2430.5500	94.52	7.70	102.22	74.00	28.22	Peak	No Limit

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX G Mode 2437 MHz
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## Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	7309.135	30.80	9.86	40.66	54.00	-13.34	AVG	
2		7310.965	42.51	9.86	52.37	74.00	-21.63	peak	

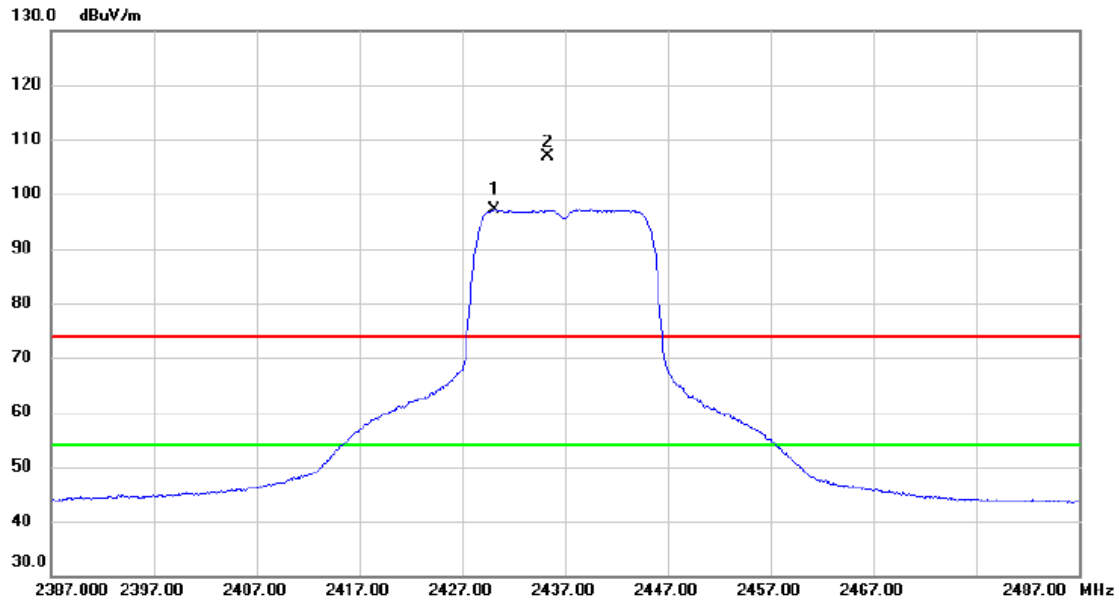
## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode: TX G Mode 2437 MHz

## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2430.200	89.93	7.18	97.11	54.00	43.11	AVG	No Limit
2	X	2435.300	99.77	7.18	106.95	74.00	32.95	peak	No Limit

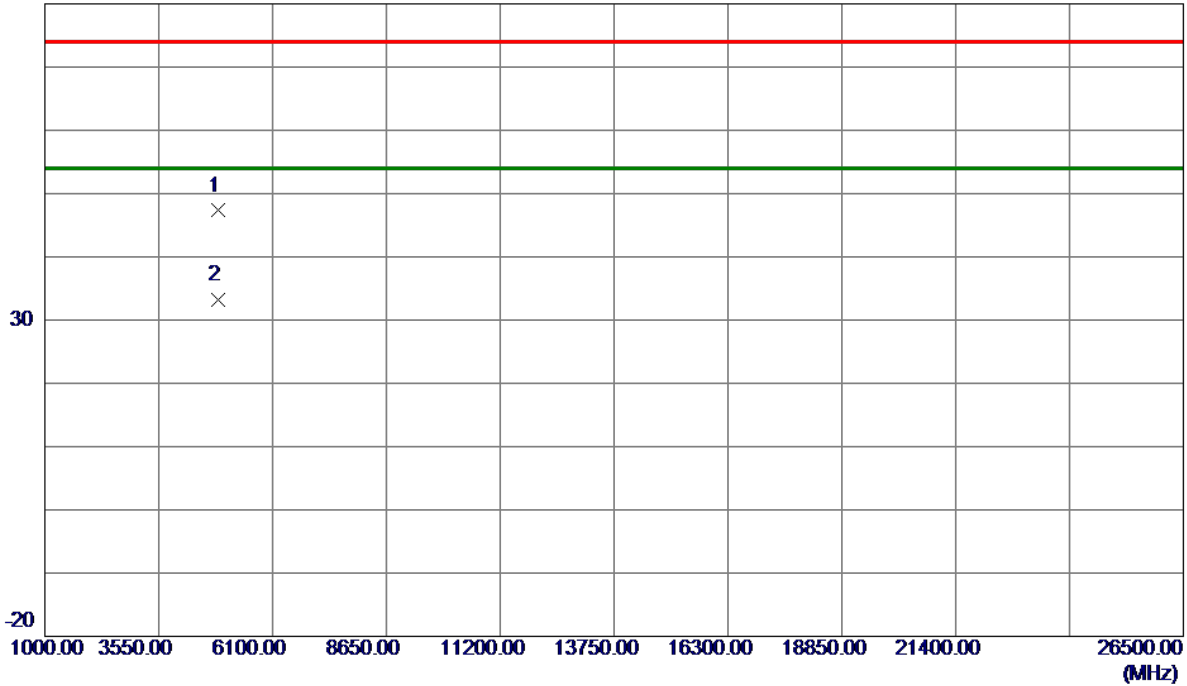
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX G Mode 2437 MHz
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## Horizontal

80 dBuV/m



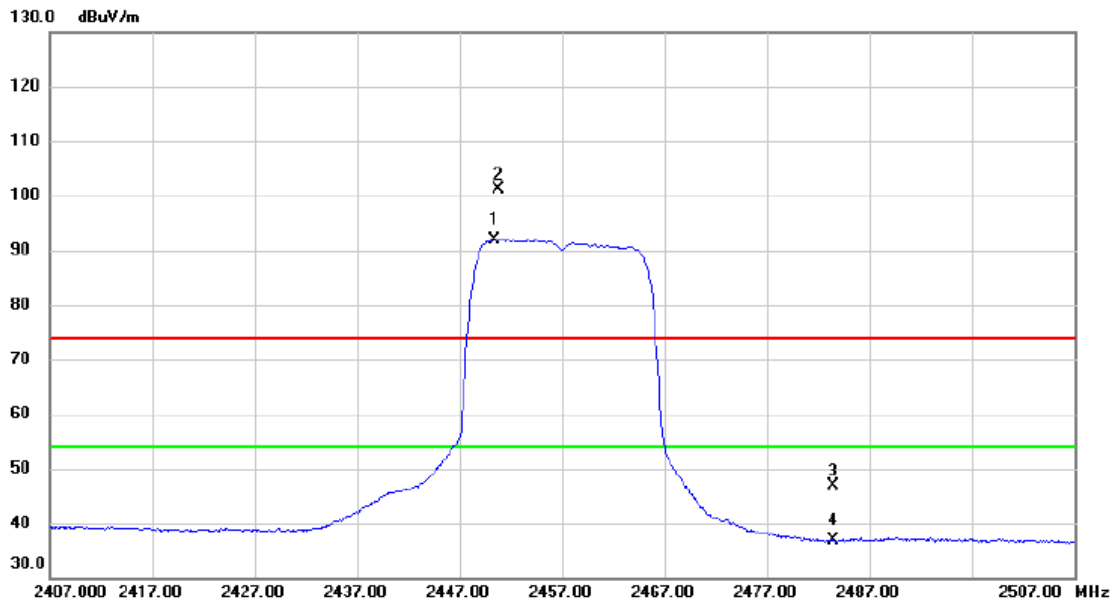
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4870.4500	42.33	4.97	47.30	74.00	-26.70	Peak	
2 *	4872.9250	28.22	4.98	33.20	54.00	-20.80	AVG	

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2457 MHz

## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2450.450	84.09	7.76	91.85	54.00	37.85	AVG	No Limit
2	X	2450.750	93.48	7.76	101.24	74.00	27.24	peak	No Limit
3		2483.500	38.98	7.87	46.85	74.00	-27.15	peak	
4		2483.500	29.10	7.87	36.97	54.00	-17.03	AVG	

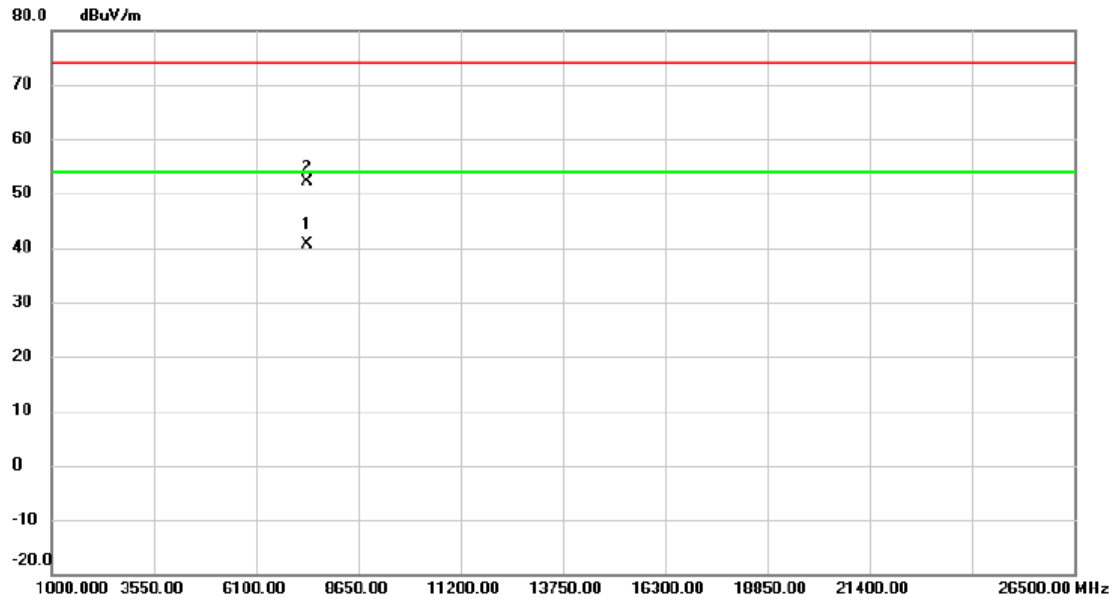
### REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX G Mode 2457 MHz
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## Vertical



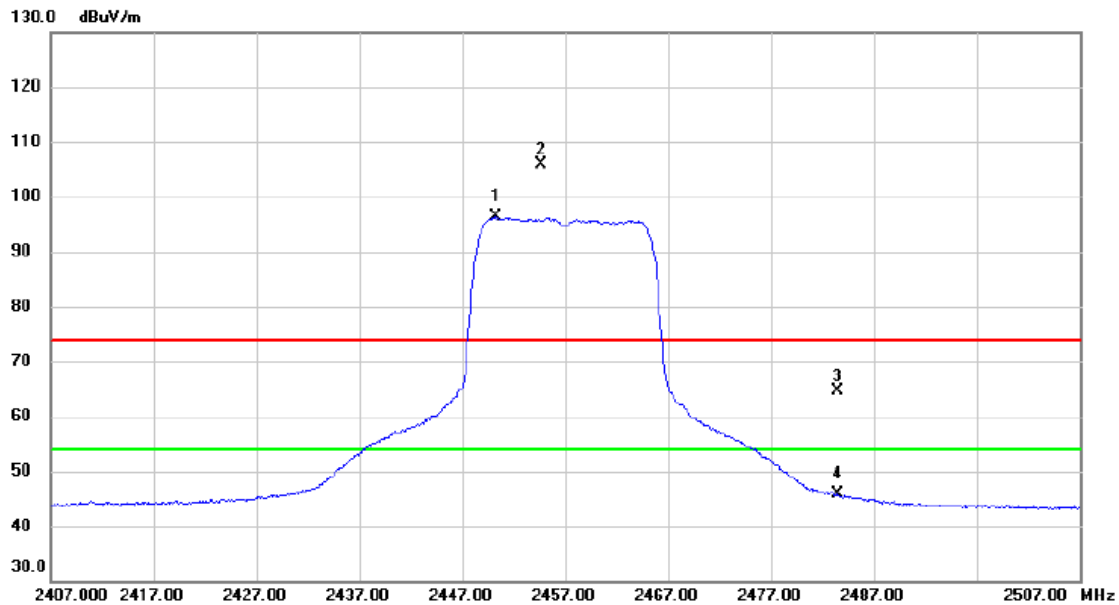
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	7368.945	30.62	9.91	40.53	54.00	-13.47	AVG	
2		7371.915	42.29	9.91	52.20	74.00	-21.80	peak	

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2457 MHz

## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2450.300	89.17	7.18	96.35	54.00	42.35	AVG	No Limit
2	X	2454.700	98.71	7.18	105.89	74.00	31.89	peak	No Limit
3		2483.500	57.33	7.20	64.53	74.00	-9.47	peak	
4		2483.500	38.56	7.20	45.76	54.00	-8.24	AVG	

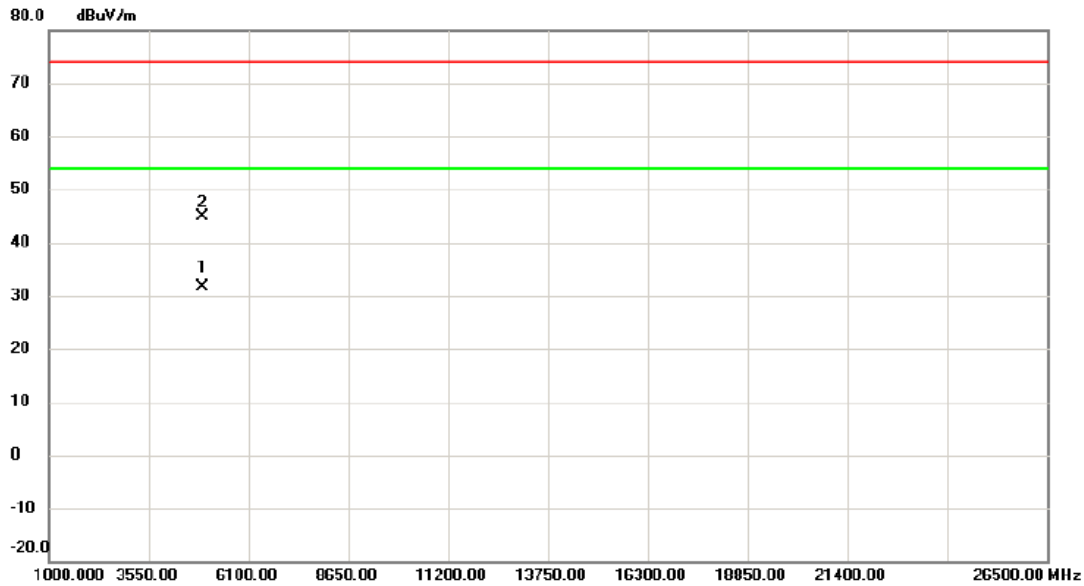
### REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX G Mode 2457 MHz
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## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4912.575	26.34	5.18	31.52	54.00	-22.48	AVG	
2		4914.025	39.65	5.18	44.83	74.00	-29.17	peak	

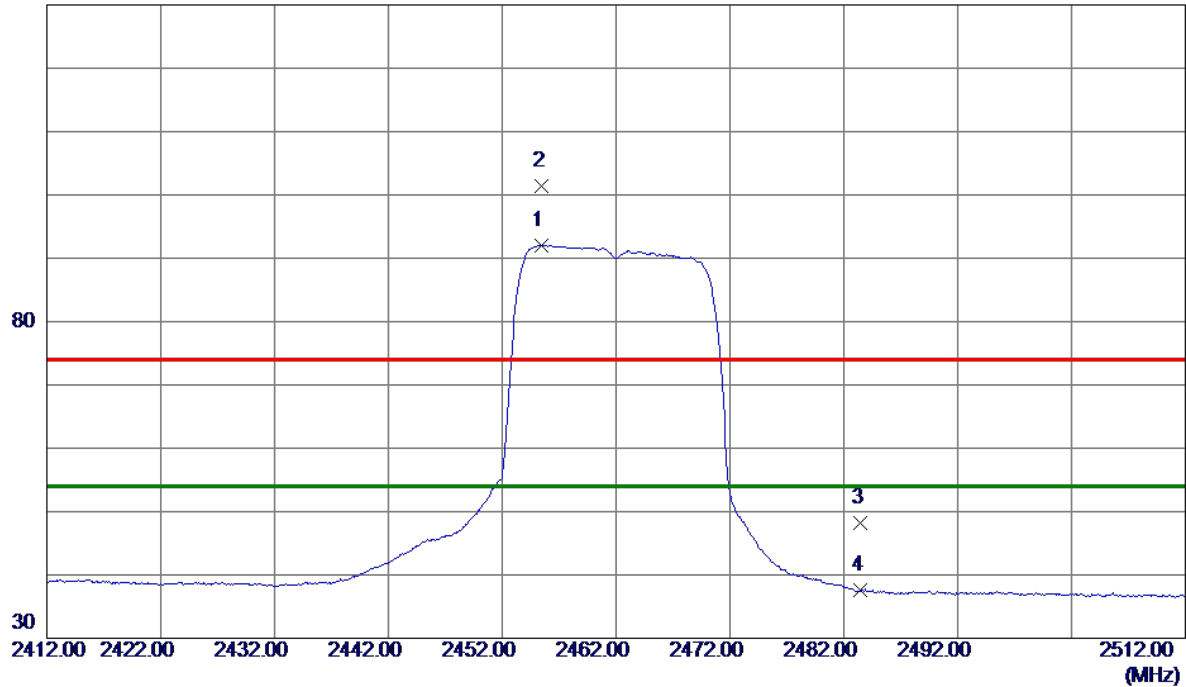
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2462 MHz

## Vertical

130 dBuV/m



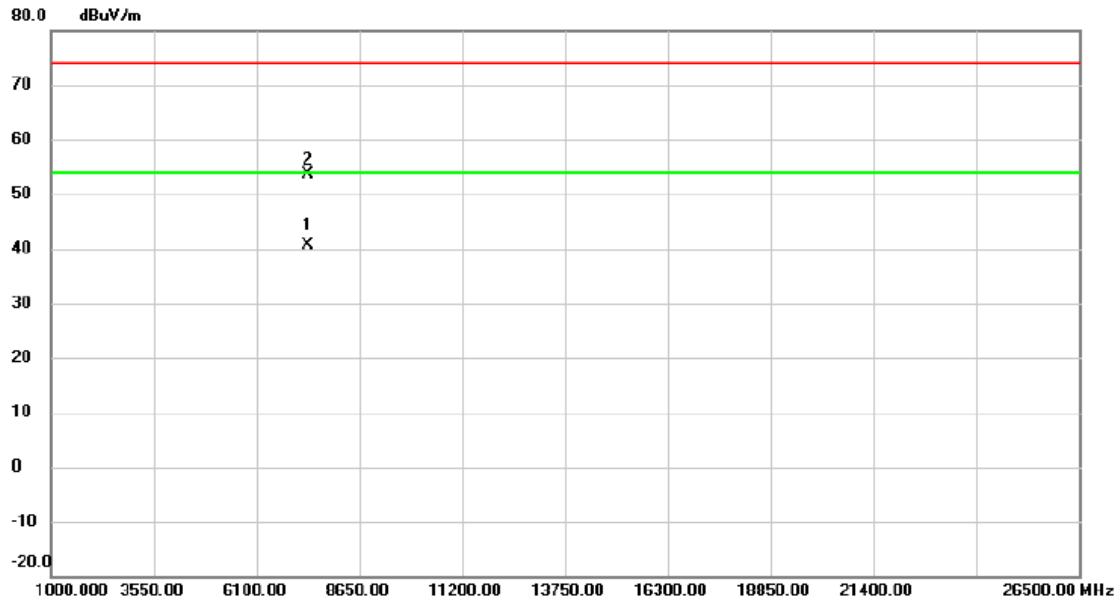
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2455.4500	84.22	7.78	92.00	54.00	38.00	AVG	No Limit
2	2455.5000	93.55	7.78	101.33	74.00	27.33	Peak	No Limit
3	2483.5000	40.27	7.88	48.15	74.00	-25.85	Peak	
4	2483.5000	29.77	7.88	37.65	54.00	-16.35	AVG	

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G Mode 2462 MHz

## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	7384.275	30.64	9.93	40.57	54.00	-13.43	AVG	
2		7385.245	43.72	9.93	53.65	74.00	-20.35	peak	

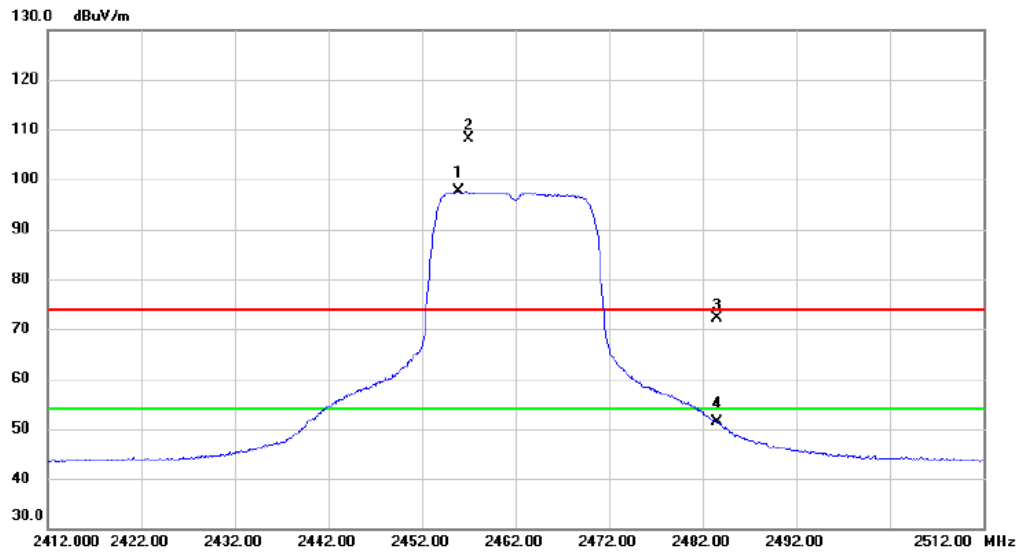
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode: TX G Mode 2462 MHz

## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2455.900	90.42	7.19	97.61	54.00	43.61	AVG	No Limit
2	X	2457.000	101.0	7.19	108.22	74.00	34.22	peak	No Limit
3		2483.500	64.84	7.20	72.04	74.00	-1.96	peak	
4		2483.500	44.20	7.20	51.40	54.00	-2.60	AVG	

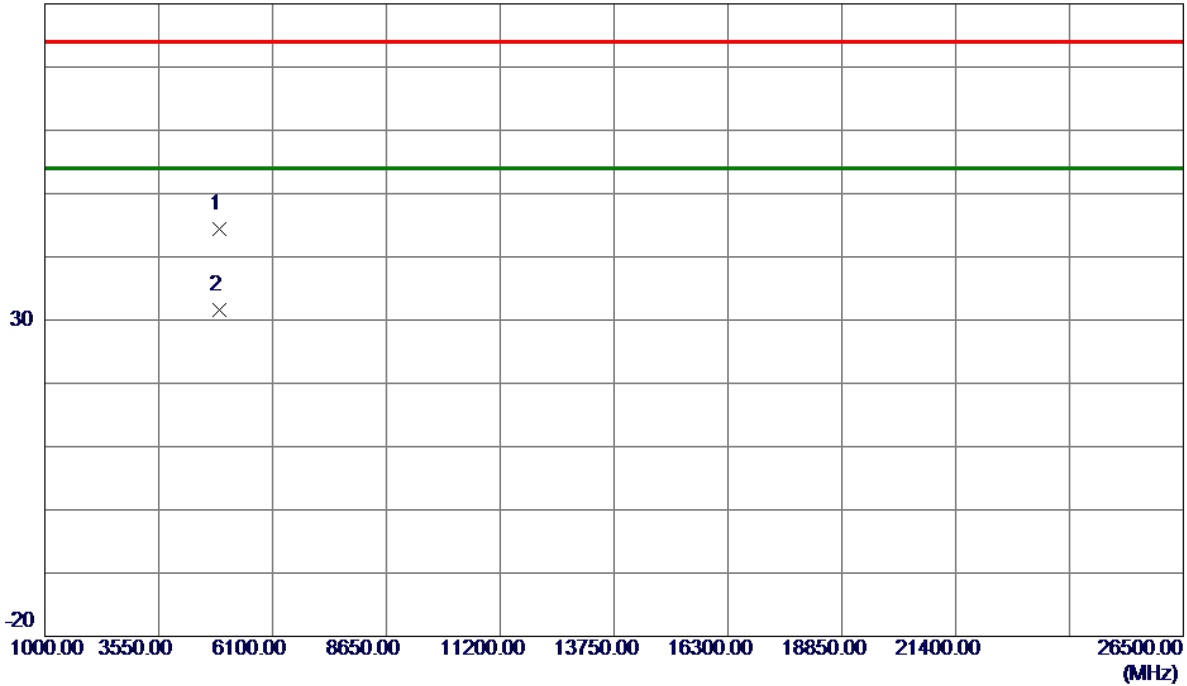
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX G Mode 2462 MHz
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## Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4915.3000	39.20	5.19	44.39	74.00	-29.61	Peak	
2 *	4922.2750	26.34	5.23	31.57	54.00	-22.43	AVG	

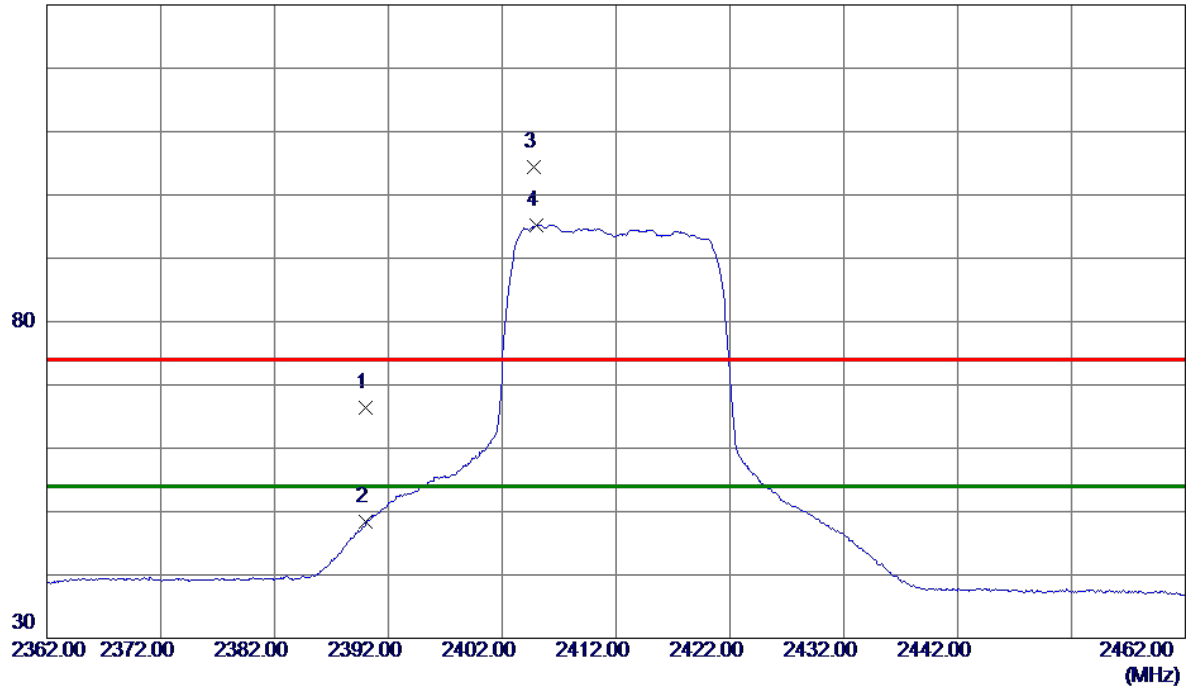
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2412 MHz

## Vertical

130 dBuV/m



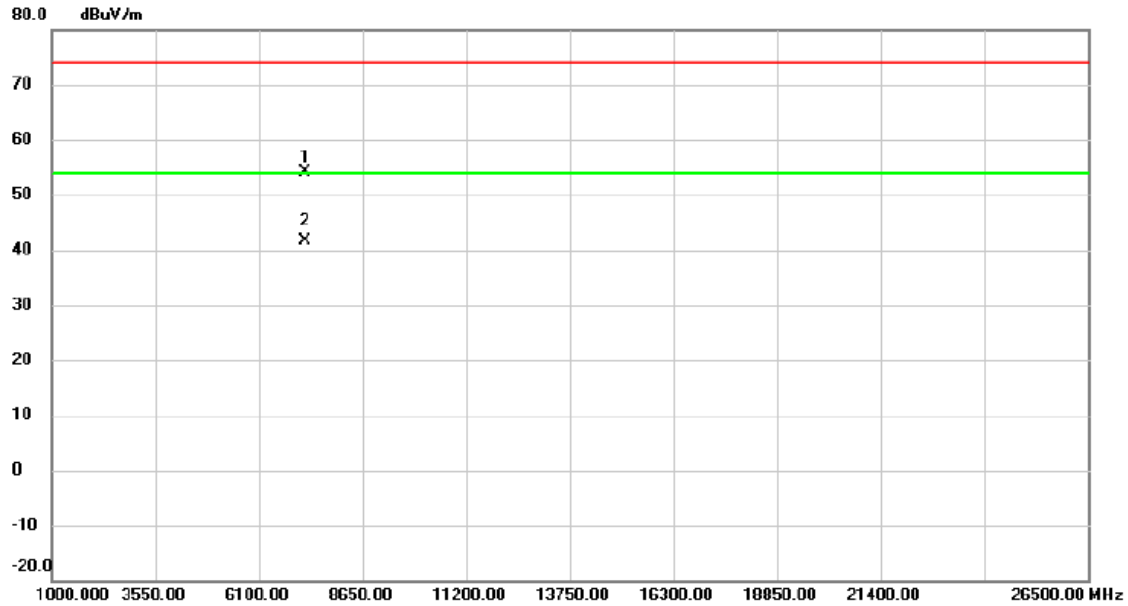
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	58.91	7.56	66.47	74.00	-7.53	Peak	
2	2390.0000	40.78	7.56	48.34	54.00	-5.66	AVG	
3	2404.7500	96.75	7.61	104.36	74.00	30.36	Peak	No Limit
4 *	2405.0000	87.67	7.61	95.28	54.00	41.28	AVG	No Limit

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2412 MHz

## Vertical



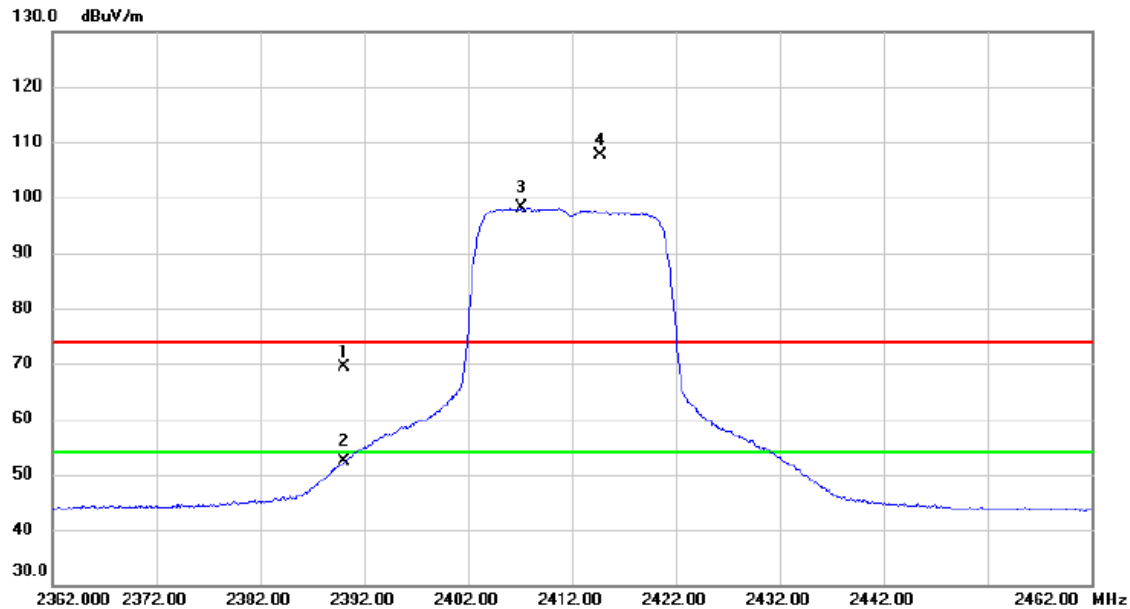
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		7235.830	44.36	9.79	54.15	74.00	-19.85	peak	
2	*	7238.395	31.85	9.79	41.64	54.00	-12.36	AVG	

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2412 MHz

## 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	62.15	7.17	69.32	74.00	-4.68	peak	
2		2390.000	45.21	7.17	52.38	54.00	-1.62	AVG	
3	*	2407.100	90.88	7.17	98.05	54.00	44.05	AVG	No Limit
4	X	2414.700	100.4	7.17	107.66	74.00	33.66	peak	No Limit

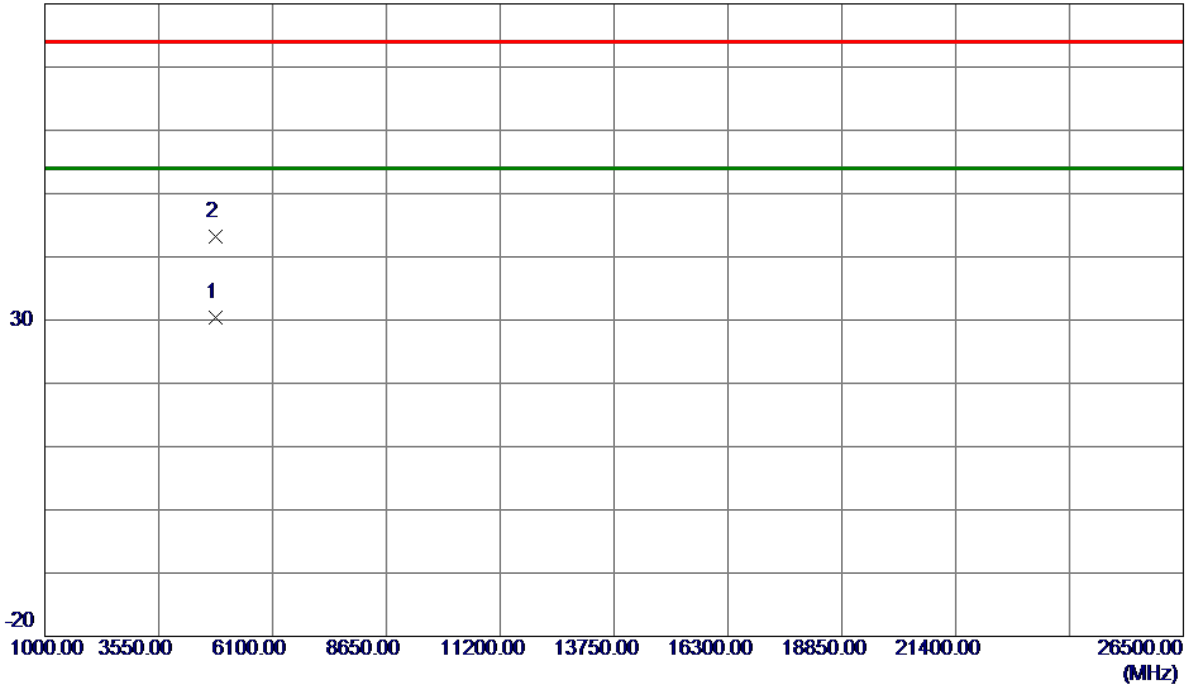
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX N-20M Mode 2412 MHz
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### Horizontal

80 dBuV/m



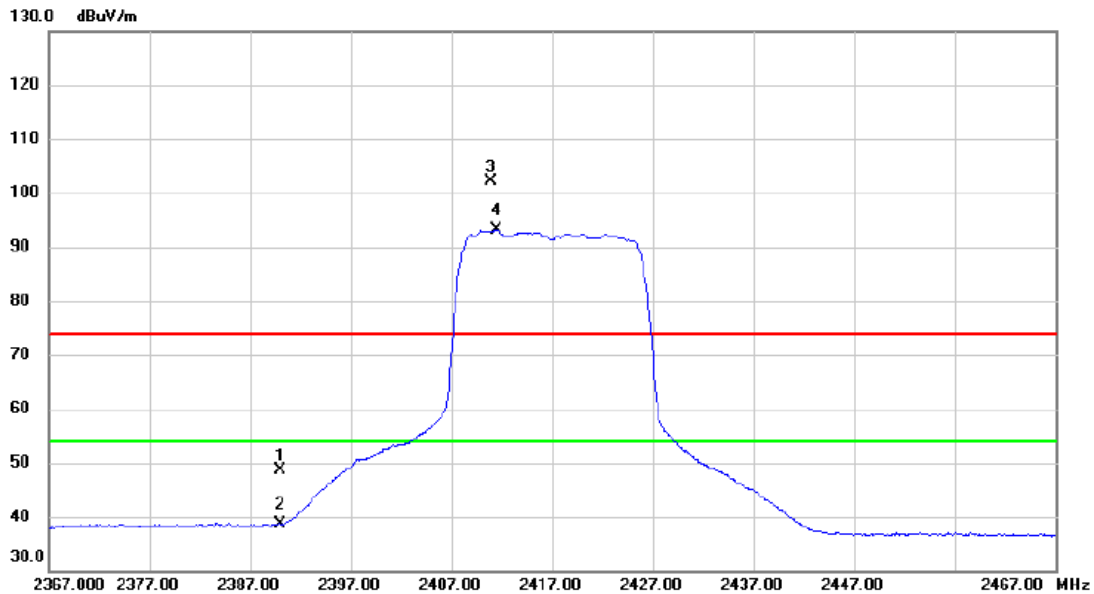
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.5500	25.68	4.75	30.43	54.00	-23.57	AVG	
2	4829.9750	38.39	4.77	43.16	74.00	-30.84	Peak	

#### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2417 MHz

## Vertical



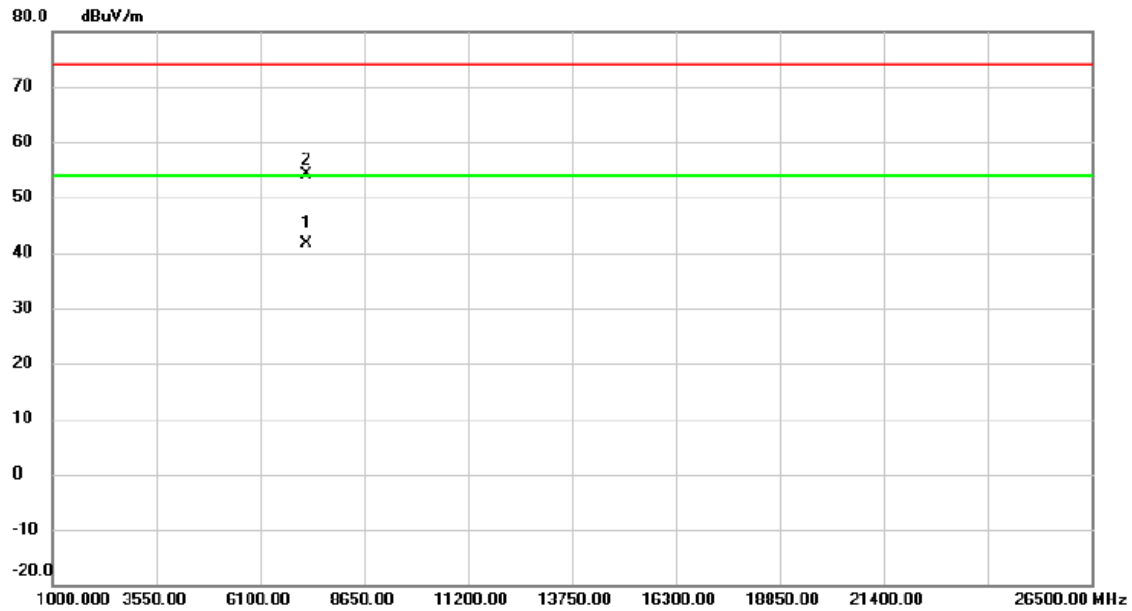
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	41.18	7.57	48.75	74.00	-25.25	peak	
2		2390.000	31.17	7.57	38.74	54.00	-15.26	AVG	
3	X	2410.950	94.41	7.63	102.04	74.00	28.04	peak	No Limit
4	*	2411.500	85.47	7.64	93.11	54.00	39.11	AVG	No Limit

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX N-20M Mode 2417 MHz
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## Vertical

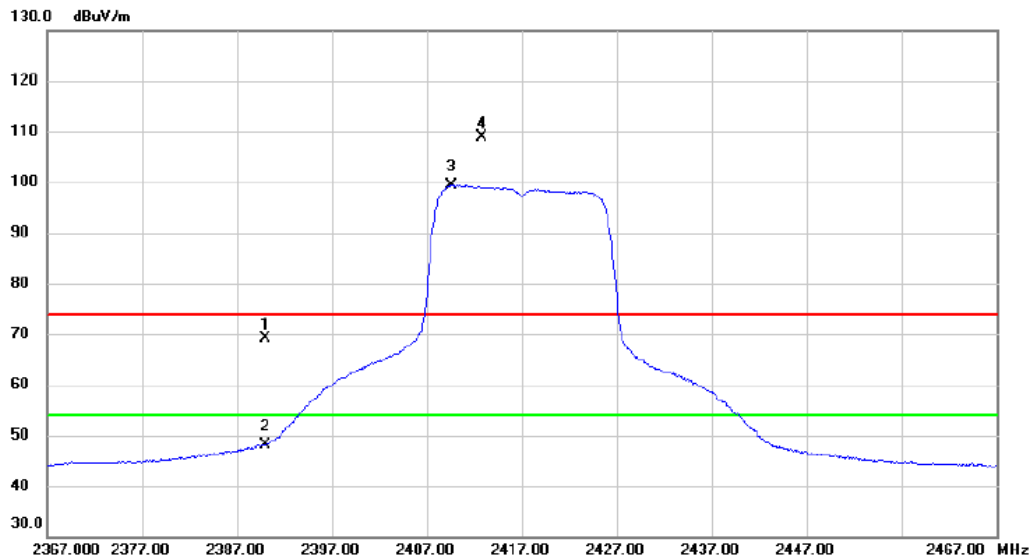


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	7248.815	31.81	9.80	41.61	54.00	-12.39	AVG	
2		7250.605	44.40	9.81	54.21	74.00	-19.79	peak	



Test Mode: TX N-20M Mode 2417 MHz

## Horizontal



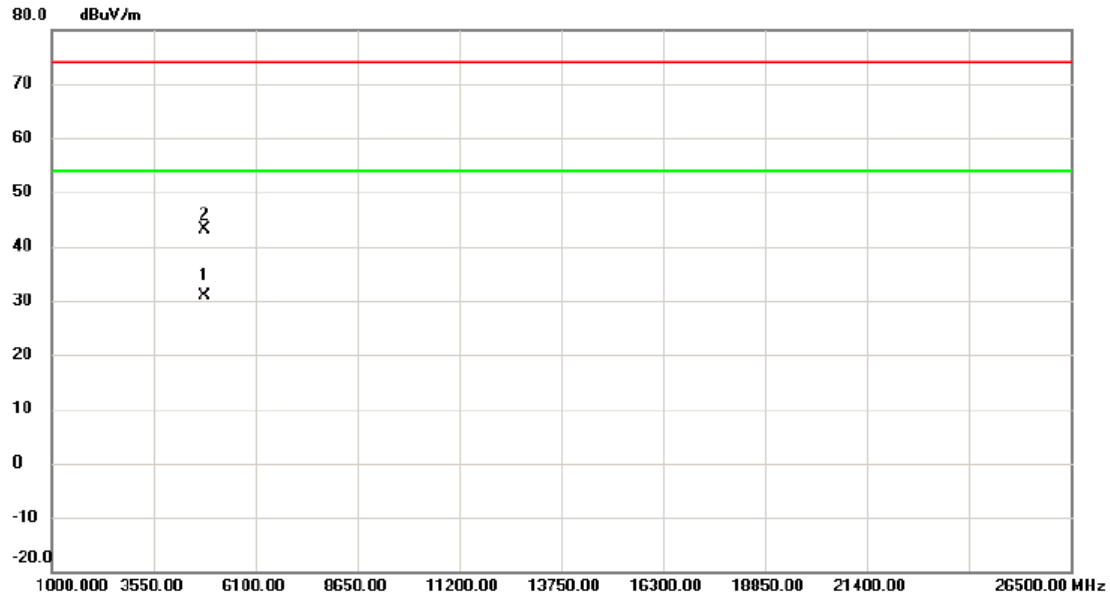
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	61.88	7.17	69.05	74.00	-4.95	peak	
2		2390.000	40.97	7.17	48.14	54.00	-5.86	AVG	
3	*	2409.600	92.32	7.16	99.48	54.00	45.48	AVG	No Limit
4	X	2412.800	101.8	7.17	109.00	74.00	35.00	peak	No Limit

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX N-20M Mode 2417 MHz
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## Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4836.400	25.98	4.80	30.78	54.00	-23.22	AVG	
2		4837.425	38.28	4.80	43.08	74.00	-30.92	peak	

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

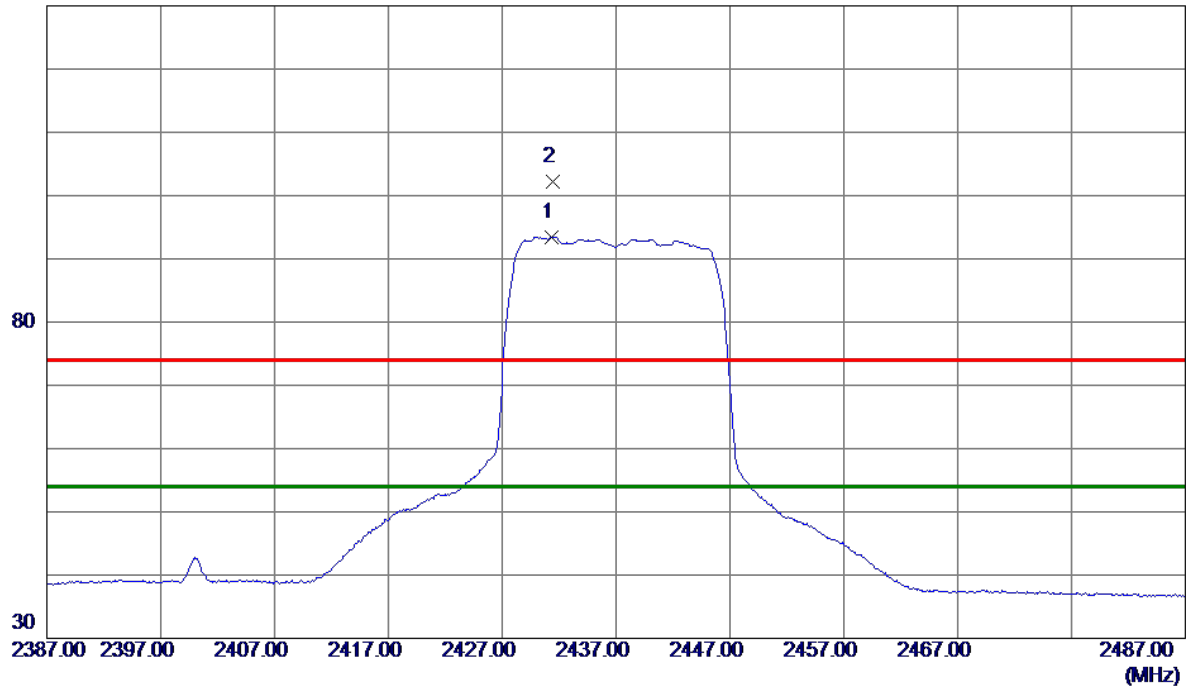
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2437 MHz

## Vertical

130 dBuV/m



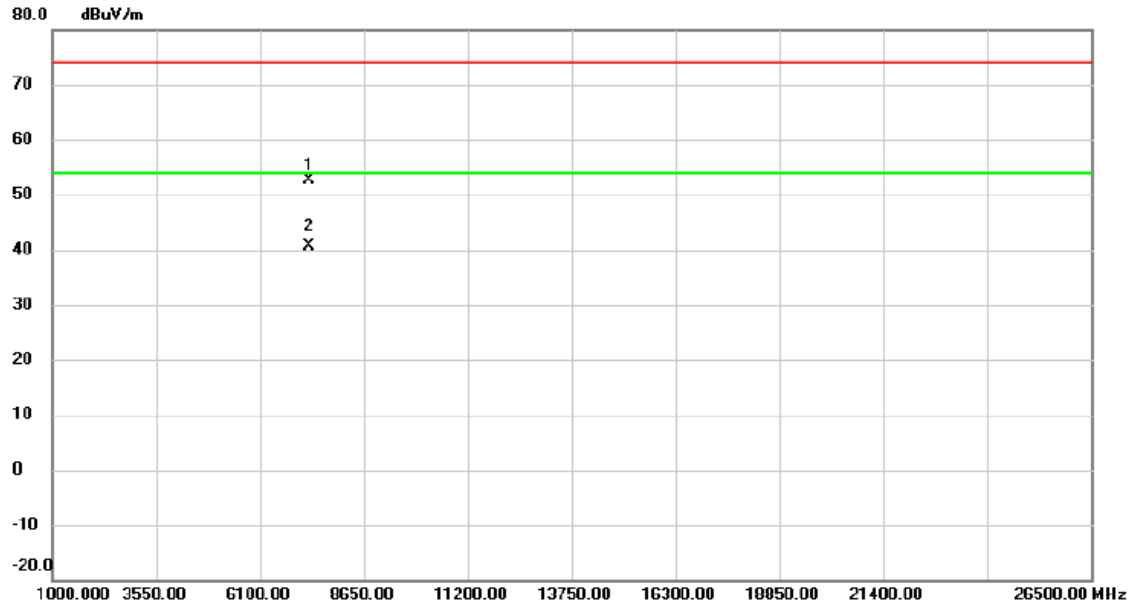
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2431.3500	85.72	7.70	93.42	54.00	39.42	AVG	No Limit
2	2431.4000	94.52	7.70	102.22	74.00	28.22	Peak	No Limit

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2437 MHz

## Vertical



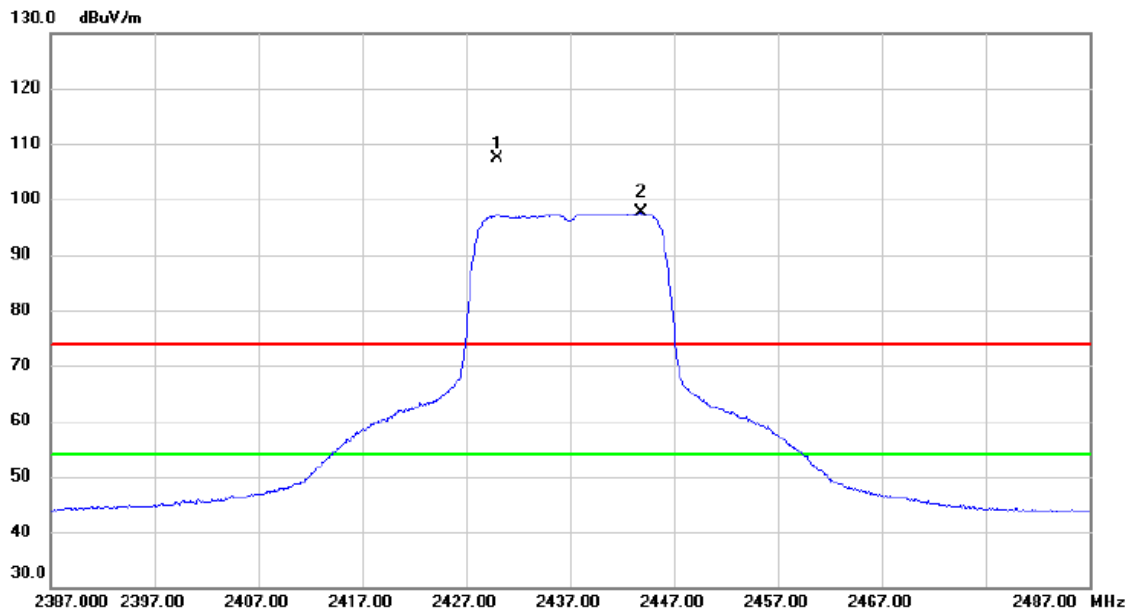
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		7310.875	42.79	9.86	52.65	74.00	-21.35	peak	
2	*	7312.115	30.83	9.86	40.69	54.00	-13.31	AVG	

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2437 MHz

## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2430.000	100.2	7.18	107.42	74.00	33.42	peak	No Limit
2	*	2443.800	90.55	7.18	97.73	54.00	43.73	AVG	No Limit

### REMARKS:

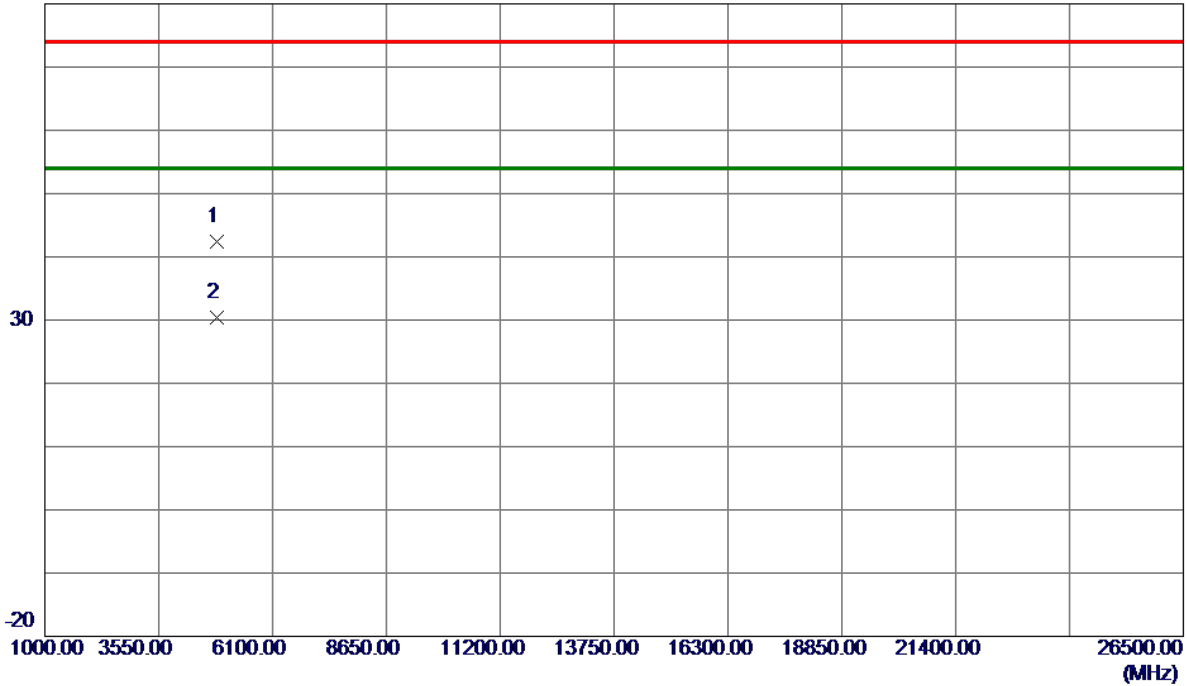
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX N-20M Mode 2437 MHz
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## Horizontal

80 dBuV/m



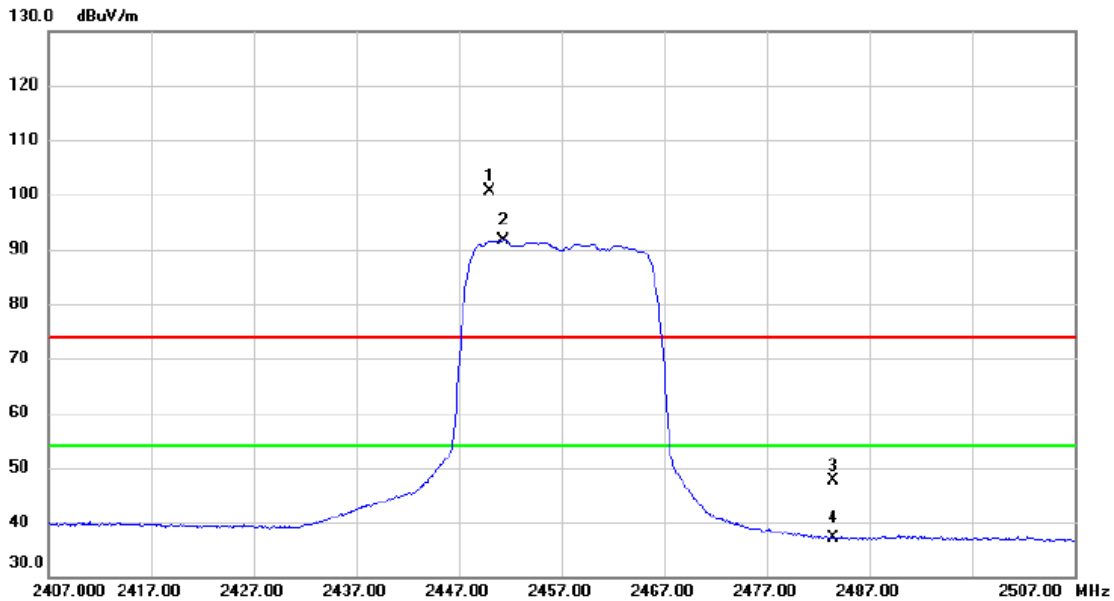
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4860.2000	37.44	4.92	42.36	74.00	-31.64	Peak	
2 *	4864.8750	25.44	4.95	30.39	54.00	-23.61	AVG	

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2457 MHz

## Vertical



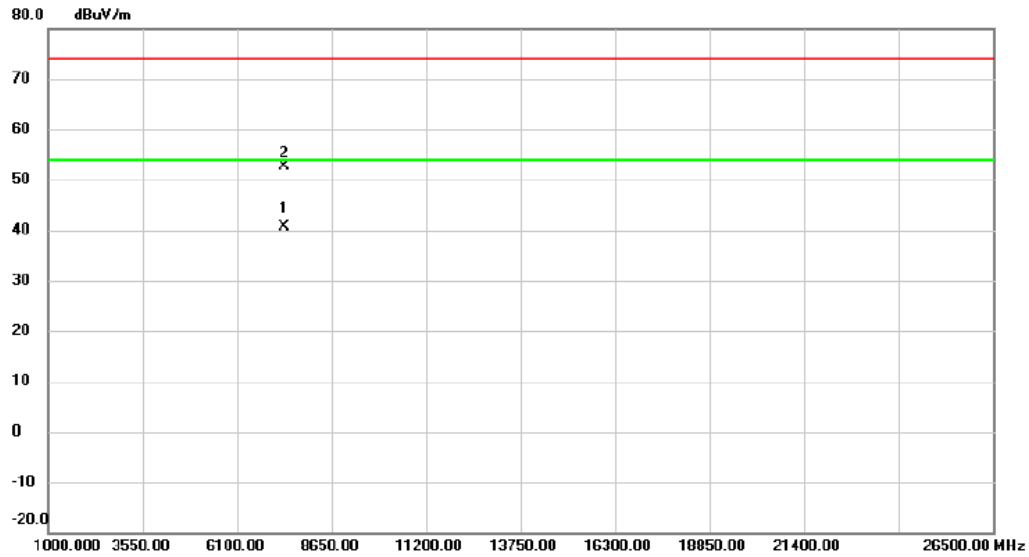
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2450.000	92.82	7.76	100.58	74.00	26.58	peak	No Limit
2	*	2451.350	83.79	7.76	91.55	54.00	37.55	AVG	No Limit
3		2483.500	39.82	7.87	47.69	74.00	-26.31	peak	
4		2483.500	29.33	7.87	37.20	54.00	-16.80	AVG	

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX N-20M Mode 2457 MHz
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## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	7369.295	30.62	9.91	40.53	54.00	-13.47	AVG	
2		7372.355	42.75	9.91	52.66	74.00	-21.34	peak	

### REMARKS:

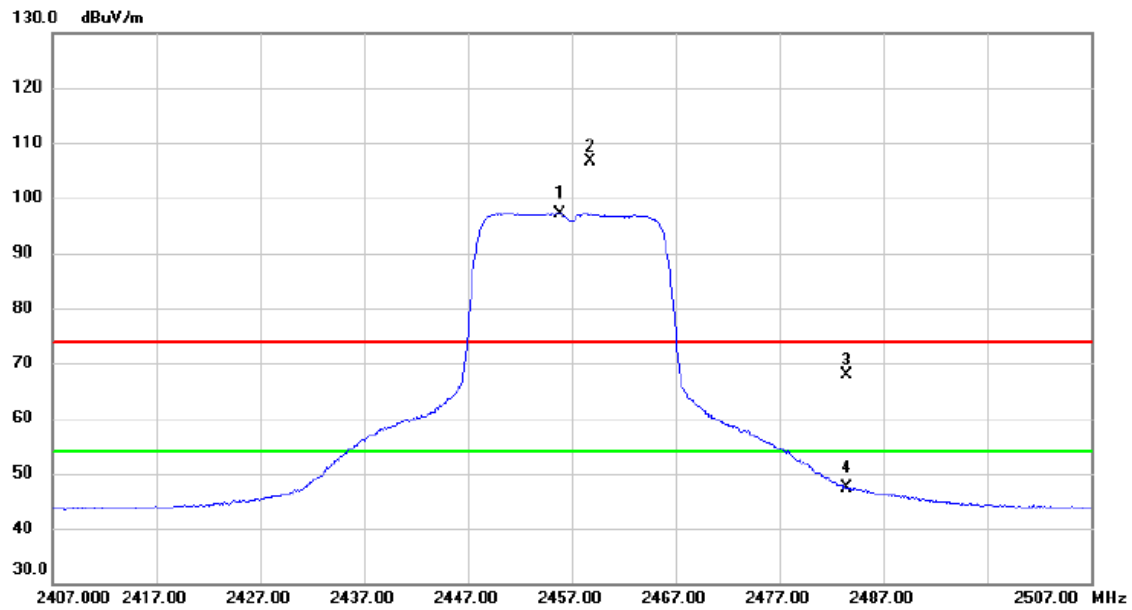
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.



Test Mode: TX N-20M Mode 2457 MHz

## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2455.900	90.00	7.19	97.19	54.00	43.19	AVG	No Limit
2	X	2458.800	99.52	7.19	106.71	74.00	32.71	peak	No Limit
3		2483.500	60.78	7.20	67.98	74.00	-6.02	peak	
4		2483.500	40.22	7.20	47.42	54.00	-6.58	AVG	

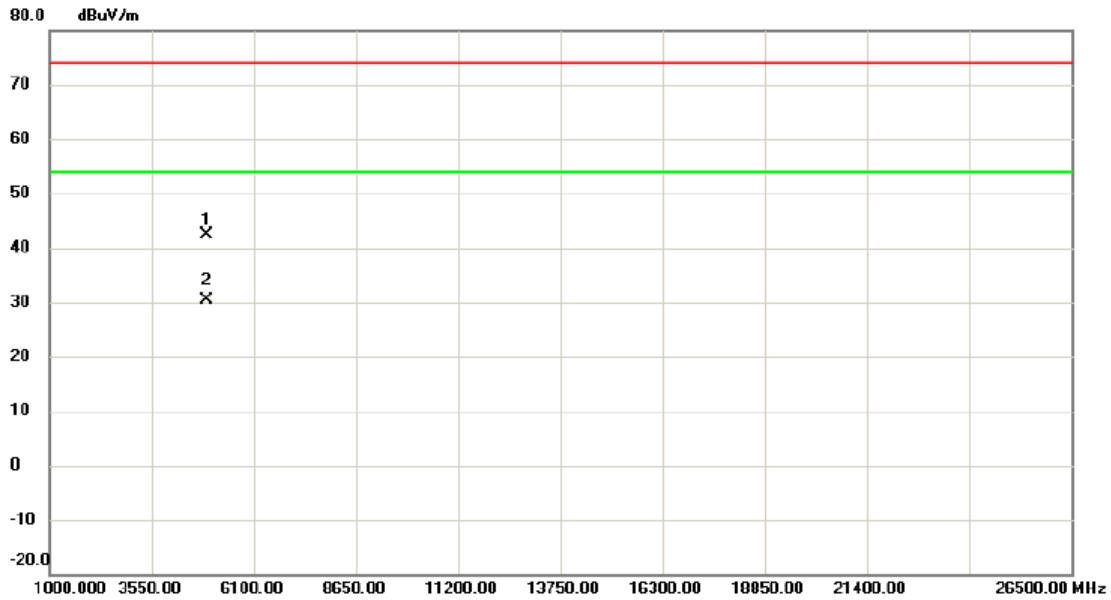
### REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX N-20M Mode 2457 MHz
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## Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4917.050	37.23	5.21	42.44	74.00	-31.56	peak	
2	*	4920.725	25.20	5.23	30.43	54.00	-23.57	AVG	

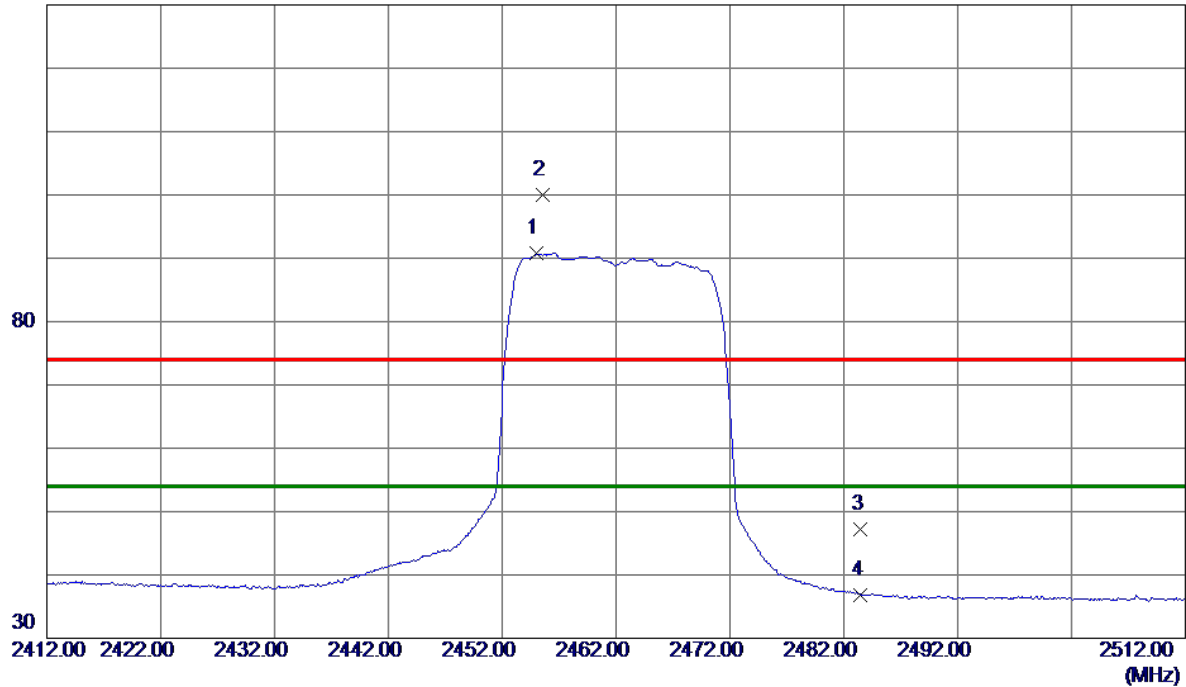
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2462 MHz

## Vertical

130 dBuV/m



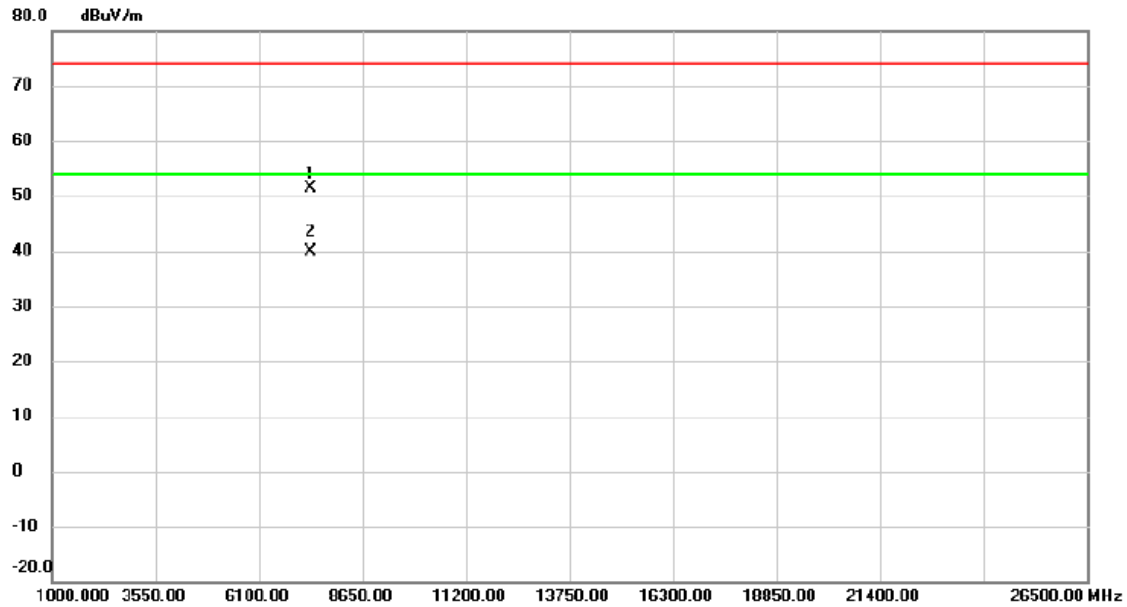
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2454.9500	82.98	7.78	90.76	54.00	36.76	AVG	No Limit
2	2455.6000	92.22	7.78	100.00	74.00	26.00	Peak	No Limit
3	2483.5000	39.32	7.88	47.20	74.00	-26.80	Peak	
4	2483.5000	28.86	7.88	36.74	54.00	-17.26	AVG	

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2462 MHz

## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		7383.625	41.54	9.93	51.47	74.00	-22.53	peak	
2	*	7386.870	29.89	9.93	39.82	54.00	-14.18	AVG	

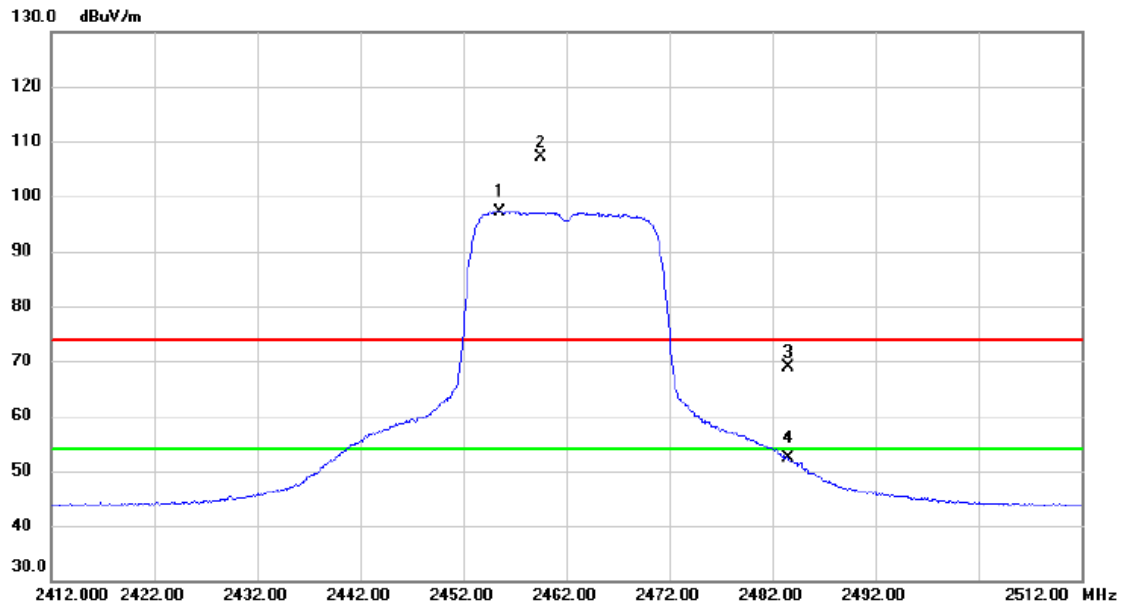
### REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20M Mode 2462 MHz

## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2455.500	90.02	7.18	97.20	54.00	43.20	AVG	No Limit
2	X	2459.500	99.87	7.19	107.06	74.00	33.06	peak	No Limit
3		2483.500	61.56	7.20	68.76	74.00	-5.24	peak	
4		2483.500	45.10	7.20	52.30	54.00	-1.70	AVG	

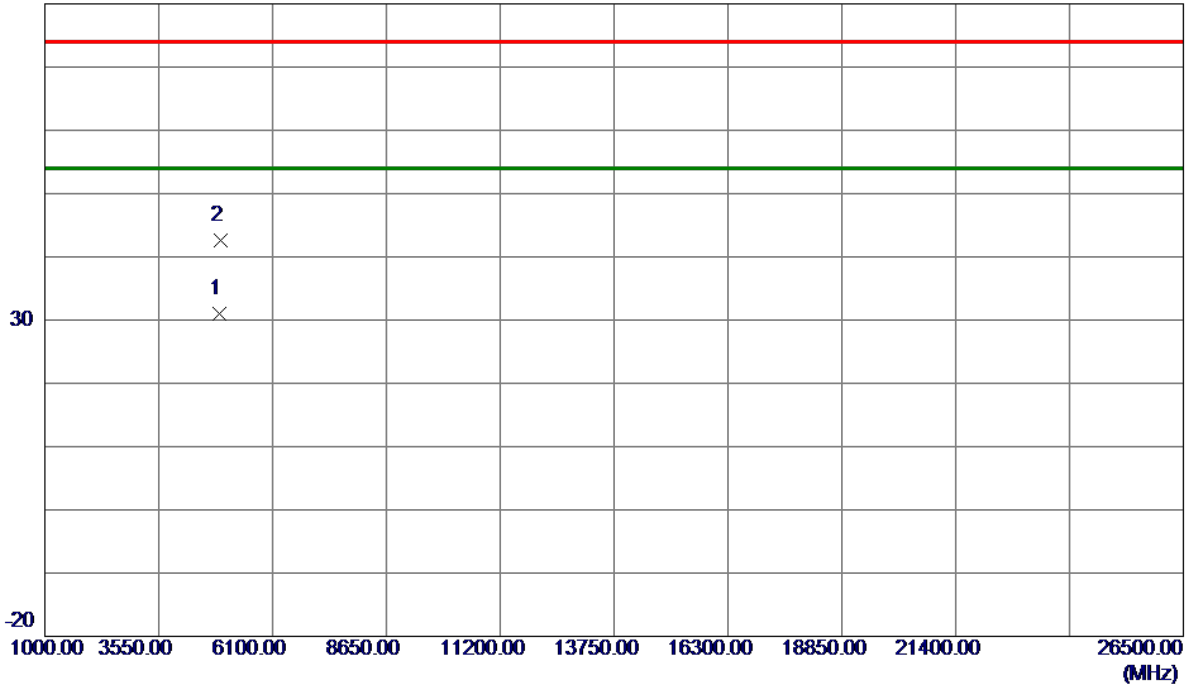
### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX N-20M Mode 2462 MHz
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## Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4921.3250	25.83	5.22	31.05	54.00	-22.95	AVG	
2	4943.2250	37.27	5.33	42.60	74.00	-31.40	Peak	

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

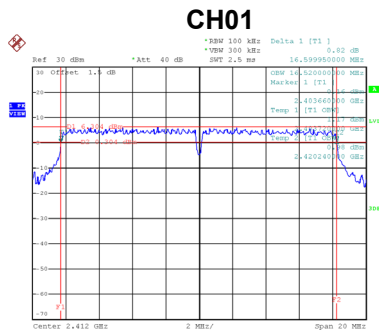
## **APPENDIX E - BANDWIDTH**



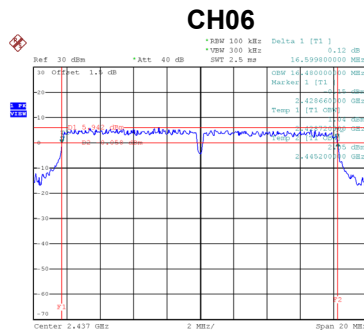


Test Mode	TX G Mode
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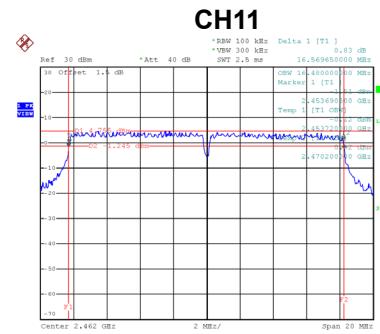
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	16.60	500	Complies
06	2437	16.60	500	Complies
11	2462	16.57	500	Complies



Date: 18.OCT.2019 15:51:01

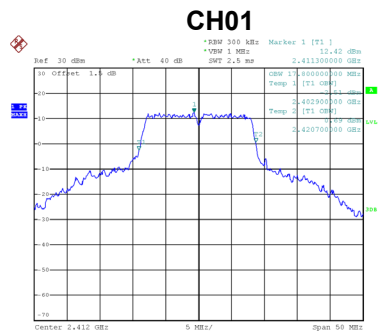


Date: 18.OCT.2019 15:52:57

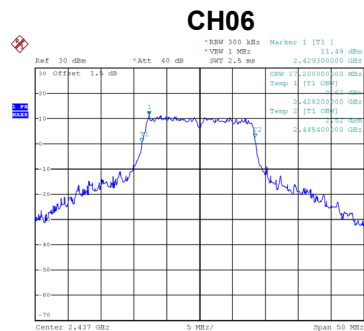


Date: 18.OCT.2019 15:54:21

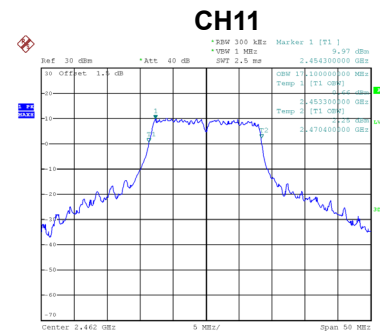
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	17.80	Complies
06	2437	17.20	Complies
11	2462	17.10	Complies



Date: 18.OCT.2019 16:21:02



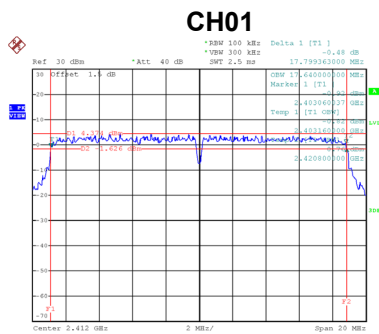
Date: 18.OCT.2019 16:22:26



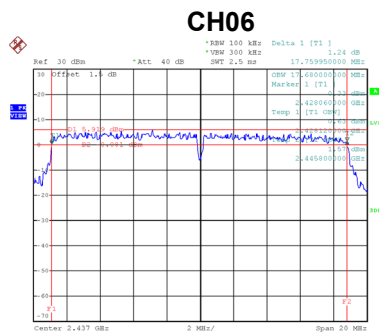
Date: 18.OCT.2019 16:23:05

Test Mode	TX N-20M Mode
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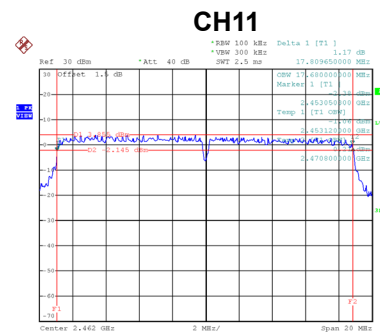
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	17.80	500	Complies
06	2437	17.76	500	Complies
11	2462	17.81	500	Complies



Date: 18.OCT.2019 15:56:17

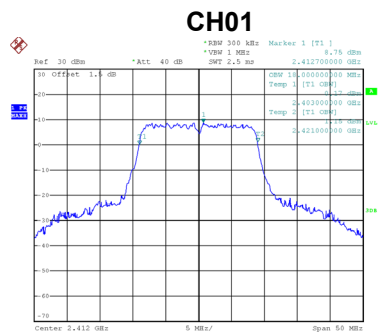


Date: 18.OCT.2019 15:58:32

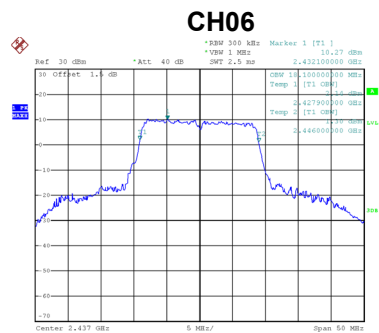


Date: 18.OCT.2019 15:59:56

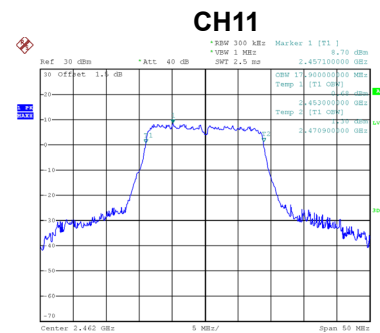
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	18.00	Complies
06	2437	18.10	Complies
11	2462	17.90	Complies



Date: 18.OCT.2019 16:25:02



Date: 18.OCT.2019 16:25:37



Date: 18.OCT.2019 16:26:10

## **APPENDIX F - MAXIMUM OUTPUT POWER**

Test Mode	TX B Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.63	0.1832	30.00	1.0000	Complies
06	2437	23.11	0.2046	30.00	1.0000	Complies
11	2462	22.97	0.1982	30.00	1.0000	Complies

Test Mode	TX G Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	26.58	0.4550	30.00	1.0000	Complies
06	2437	26.88	0.4875	30.00	1.0000	Complies
11	2462	26.71	0.4688	30.00	1.0000	Complies

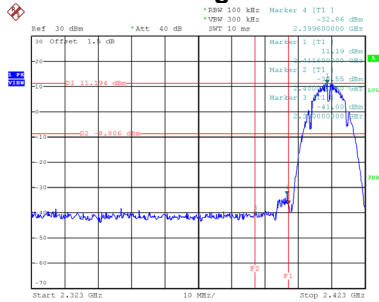
Test Mode	TX N-20M Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	26.47	0.4436	30.00	1.0000	Complies
06	2437	26.79	0.4775	30.00	1.0000	Complies
11	2462	26.26	0.4227	30.00	1.0000	Complies

## **APPENDIX G - CONDUCTED SPURIOUS EMISSIONS**

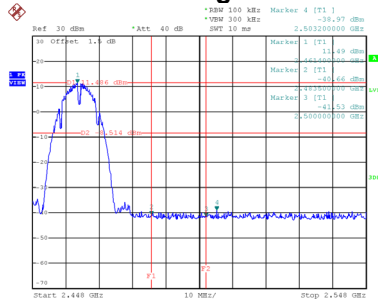
Test Mode TX B Mode

## Bandedge-CH01



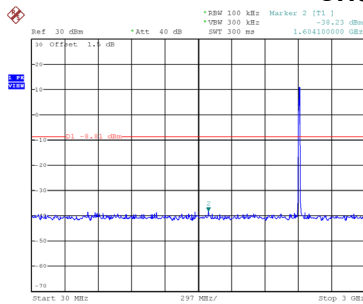
Date: 18.OCT.2019 15:42:02

## Bandedge-CH11

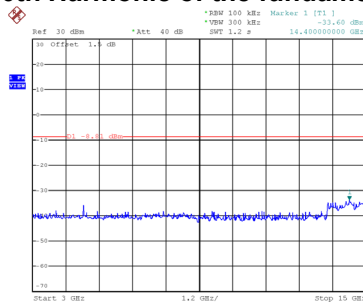


Date: 18.OCT.2019 15:49:23

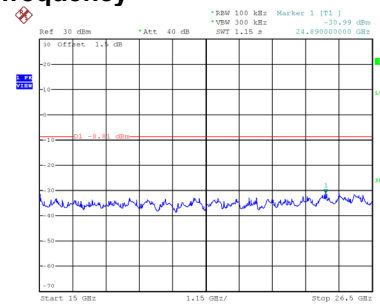
## CH01 – 10th Harmonic of the fundamental frequency



Date: 18.OCT.2019 15:42:16

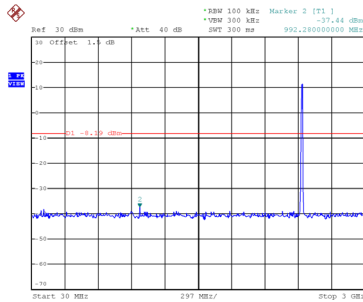


Date: 18.OCT.2019 15:42:23

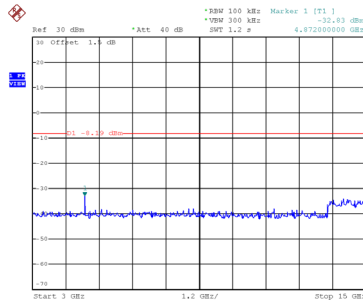


Date: 18.OCT.2019 15:42:30

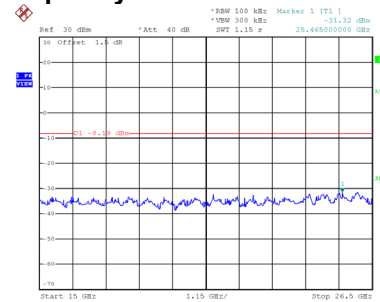
## CH06 – 10th Harmonic of the fundamental frequency



Date: 18.OCT.2019 15:47:39

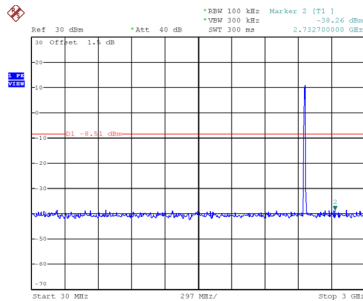


Date: 18.OCT.2019 15:47:46

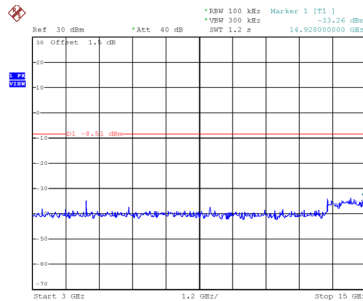


Date: 18.OCT.2019 15:47:54

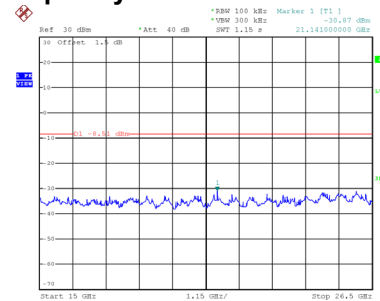
## CH11 – 10th Harmonic of the fundamental frequency



Date: 18.OCT.2019 15:49:36



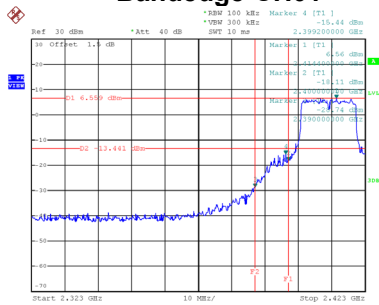
Date: 18.OCT.2019 15:49:43



Date: 18.OCT.2019 15:49:51

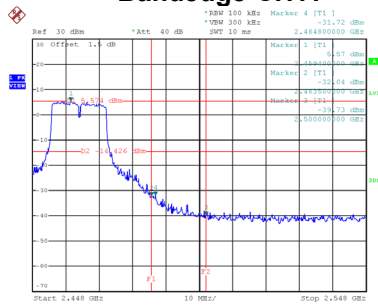
Test Mode TX G Mode

## Bandedge-CH01



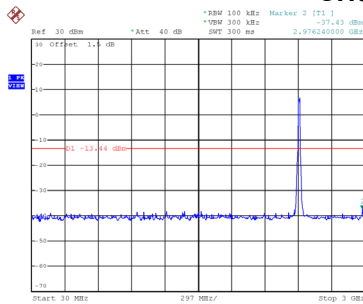
Date: 18.OCT.2019 15:51:09

## Bandedge-CH11

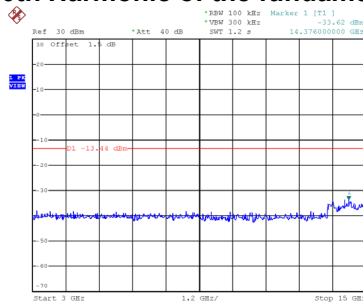


Date: 18.OCT.2019 15:54:29

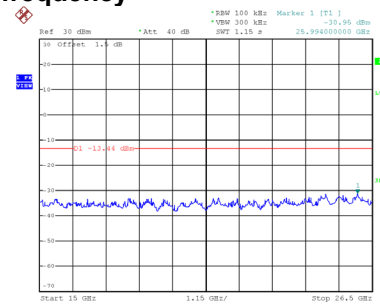
## CH01 – 10th Harmonic of the fundamental frequency



Date: 18.OCT.2019 15:51:22

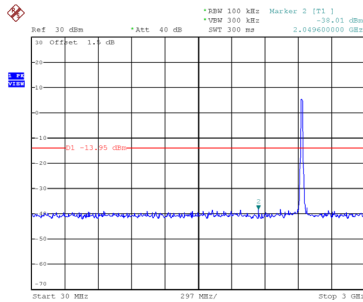


Date: 18.OCT.2019 15:51:29

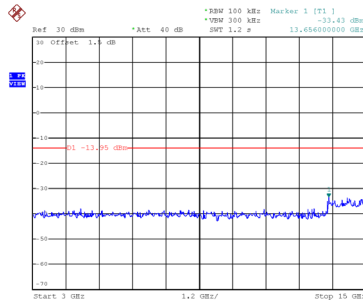


Date: 18.OCT.2019 15:51:37

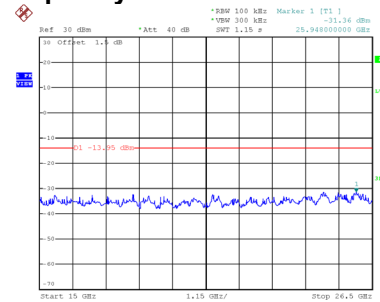
## CH06 – 10th Harmonic of the fundamental frequency



Date: 18.OCT.2019 15:53:18

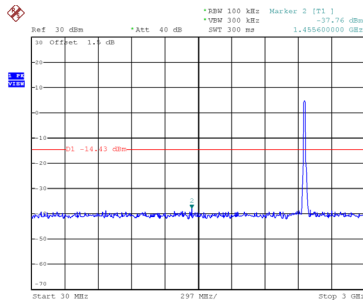


Date: 18.OCT.2019 15:53:25

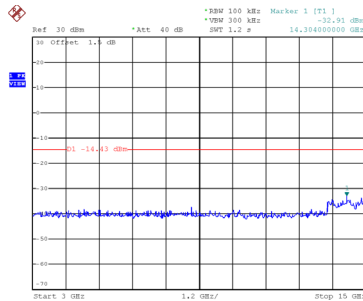


Date: 18.OCT.2019 15:53:33

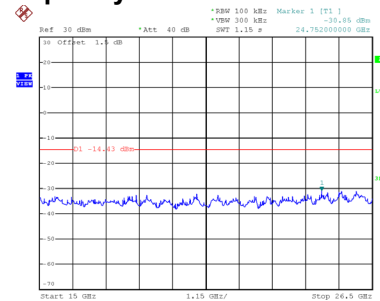
## CH11 – 10th Harmonic of the fundamental frequency



Date: 18.OCT.2019 15:54:42



Date: 18.OCT.2019 15:54:50



Date: 18.OCT.2019 15:54:57