

# FCC Radio Test Report

## FCC ID: Q78-B820CA15

This report concerns: Original Grant

**Project No.** : 2108H060  
**Equipment** : Hybrid STB  
**Brand Name** : ZTE  
**Test Model** : ZXV10 B820C-A15  
**Series Model** : N/A  
**Applicant** : ZTE Corporation  
**Address** : ZTE Plaza, Hi-Tech Park, Nanshan District, Shenzhen, Guangdong, P.R.China  
**Manufacturer** : ZTE Corporation  
**Address** : ZTE Plaza, Hi-Tech Park, Nanshan District, Shenzhen, Guangdong, P.R.China  
**Date of Receipt** : Sep. 03, 2021  
**Date of Test** : Sep. 03, 2021~Sep. 20, 2021  
**Issued Date** : Sep. 29, 2021  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.:  
EUT(MTK7661): SH20210903181-1 for radiated,  
SH20210903181-10 for conducted.  
EUT(MTK7663): SH20210903181 for radiated,  
SH20210903181-9 for conducted.  
Adapter: SH20210903181-6  
**Standard(s)** : FCC CFR Title 47, Part 15, Subpart C  
FCC KDB 558074 D01 15.247 Meas Guidance v05r02  
FCC KDB 662911 D01 Multiple Transmitter Output v02r01  
ANSI C63.10-2013

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

Maker Qi

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TESTING CERT #5123.03

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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.

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 Version	Description	Issued Date
R00	Original Issue.	Sep. 29, 2021

## 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. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210, China  
 BTL's Test Firm Registration Number for FCC: 476765  
 BTL's Designation Number for FCC: CN1241

### 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)
SH-C01	CISPR	150 kHz ~ 30 MHz	2.64

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
SH-CB02	CISPR	9 KHz~30 MHz	-	2.16
		30 MHz~200 MHz	V	4.04
		30 MHz~200 MHz	H	2.90
		200 MHz~1,000 MHz	V	3.76
		200 MHz~1,000 MHz	H	3.82
		1GHz ~ 6GHz	-	4.56
		6GHz ~ 18GHz	-	4.14
		18 ~ 26.5 GHz	-	3.48

C. Conducted test:

Parameter	U
Output Power	±0.95 dB
Occupied Channel Bandwidth	±3.8 %
Power Spectral Density	±0.86 dB
Conducted Spurious Emission	±2.71 dB
Temperature	±0.08 °C
Humidity	±1.5 %
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	22°C	54%	AC 120V/60Hz	Vera Wei
Radiated Emissions-9kHz to 30 MHz	26°C	61%	AC 120V/60Hz	Forest Li
Radiated Emissions-30MHz to 1000MHz	26°C	61%	AC 120V/60Hz	Forest Li
Radiated Emissions-Above 1000MHz	26°C	61%	AC 120V/60Hz	Forest Li
Bandwidth	26°C	35%	AC 120V/60Hz	Danny Dang
Maximum Output Power	26°C	35%	AC 120V/60Hz	Danny Dang
Conducted Spurious Emissions	26°C	35%	AC 120V/60Hz	Danny Dang
Power Spectral Density	26°C	35%	AC 120V/60Hz	Danny Dang



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Hybrid STB
Brand Name	ZTE
Test Model	ZXV10 B820C-A15
Series Model	N/A
Model Difference(s)	N/A
Power Source	DC Voltage supplied from AC/DC adapter. #1 Brand / Model: Ruide/ RD1201000-C55-35MGD #2 Brand / Model: Castec/ MN012E-L120100
Power Rating	#1 I/P: AC 100-240V~ 50-60Hz 0.6 A MAX O/P: 12V --- 1.0 A #2 I/P: AC 100-240V~ 50-60Hz 0.6 A MAX O/P: 12.0V --- 1.0 A
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 300 Mbps
Maximum Output Power	MTK7661: IEEE 802.11n40: 28.28 dBm (0.6730 W) MTK7663: IEEE 802.11n40: 28.47 dBm (0.7031 W)

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The equipment have two alternate material (MTK7661 and MTK7663), only used as a separate shipping area, both the two models have been tested.

## 3. Channel List:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20)							
CH03 - CH09 for IEEE 802.11n(HT40)							
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. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Clamping Antenna	N/A	1.1
2	N/A	N/A	Clamping Antenna	N/A	1.9

## Note:

- This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain= $10\log[(10^{G1/20}+10^{G2/20}+\dots+10^{GN/20})^2/N]$ dBi, that is Directional gain= $10\log[(10^{1.1/20}+10^{1.9/20})^2/2]$ dBi =4.52. So, the output power limit is 30, the power spectral density limit is 8.
- This EUT supports CDD, and all antennas are not equal, Directional gain =  $G_{ANT} + \text{Array Gain}$ . For power measurements, Array Gain=0dB ( $N_{ANT} \leq 4$ ), so the Directional gain=1.9. For power spectral density measurements,  $N_{ANT}=2$ ,  $N_{SS} = 1$ . So the Directional gain= $G_{ANT} + \text{Array Gain} = G_{ANT} + 10\log(N_{ANT}/N_{SS})$ dBi=1.9+10log(2/1)dBi=4.91. Then, the power spectral density limit is 8
- The antenna gain is provided by the manufacturer.

## 5. Table for Antenna Configuration:

Operating Mode TX Mode	Ant. 1	Ant. 2	Ant. 1+2
	802.11b	✓	✓
802.11g	✓	✓	✓
802.11n(20 MHz)	✓	✓	✓
802.11n(40 MHz)	✓	✓	✓

## 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(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09

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

<b>AC power line conducted emissions test</b>	
Final Test Mode	Description
Mode 4	TX N(HT40) Mode Channel 03/06

<b>Radiated emissions test - Below 1GHz</b>	
Final Test Mode	Description
Mode 4	TX N(HT40) Mode Channel 03/06

<b>Radiated emissions test- Above 1GHz</b>	
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(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09

<b>Conducted test</b>	
<b>Final Test Mode</b>	<b>Description</b>
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09

**NOTE:**

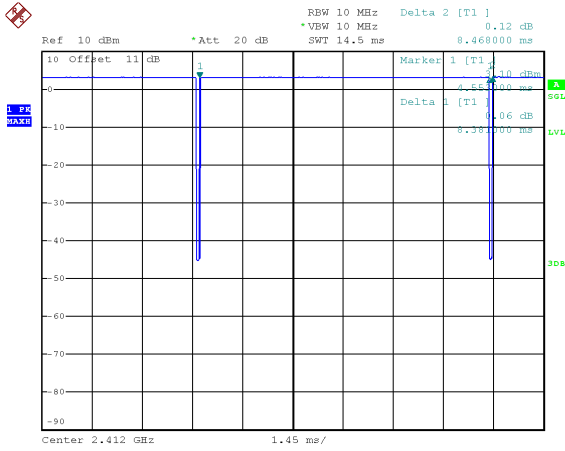
- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX N (HT40) Mode Channel 06 of MTK7661 and the TX N (HT40) Mode Channel 03 of MTK7663 is found to be the worst case and recorded.
- (3) For radiated emission below 1 GHz and AC Power Line Conducted Emissions test, all adapters had been pre-tested and in this report only recorded the worst case.

**2.3 PARAMETERS OF TEST SOFTWARE**

Test Software Version	QA TOOL		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	1E	1E	1E
IEEE 802.11g	1C	1D	1D
IEEE 802.11n(HT20)	1D	1D	1D
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	1E	1E	1E

## 2.4 DUTY CYCLE

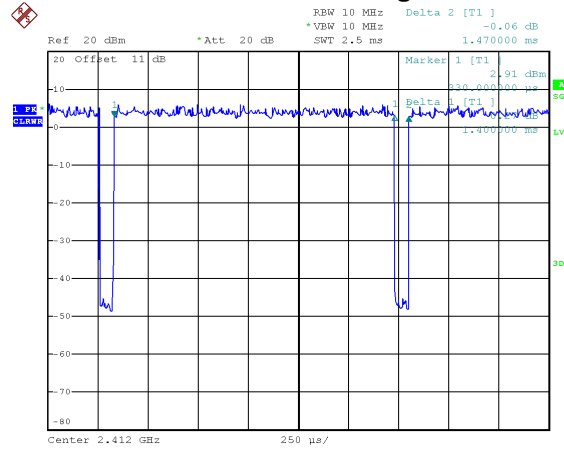
**IEEE 802.11b**



Date: 7.SEP.2021 16:56:52

Duty cycle = 8.381 ms / 8.468 ms = 98.97%  
 Duty Factor = 10 log(1/Duty cycle) = 0.04

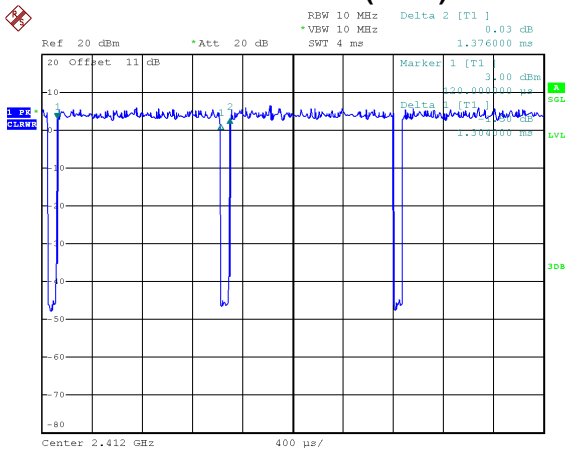
**IEEE 802.11g**



Date: 7.SEP.2021 16:59:36

Duty cycle = 1.400 ms / 1.470 ms = 95.24%  
 Duty Factor = 10 log(1/Duty cycle) = 0.21

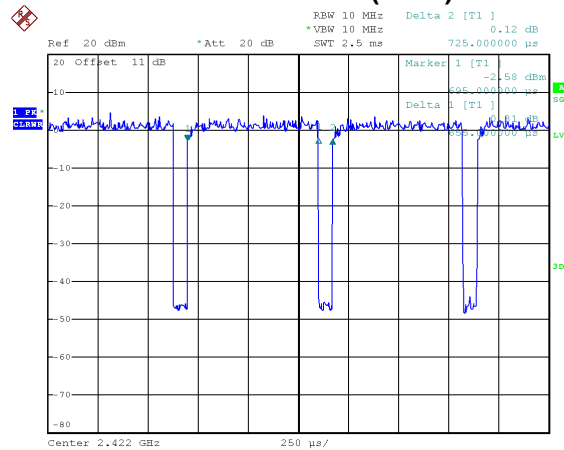
**IEEE 802.11n(HT20)**



Date: 7.SEP.2021 17:00:35

Duty cycle = 1.304 ms / 1.376 ms = 94.77%  
 Duty Factor = 10 log(1/Duty cycle) = 0.23

**IEEE 802.11n(HT40)**



Date: 7.SEP.2021 17:01:56

Duty cycle = 0.655 ms / 0.725 ms = 90.34%  
 Duty Factor = 10 log(1/Duty cycle) = 0.44

**NOTE:**

For IEEE 802.11b:

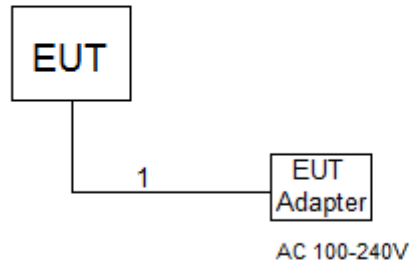
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz.

For IEEE 802.11g / 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.

For IEEE 802.11n (HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 KHz.

**2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED****2.6 SUPPORT UNITS**

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC	N/A	N/A	1M

### 3. AC POWER LINE CONDUCTED EMISSIONS

#### 3.1 LIMIT

Frequency of Emission (MHz)	Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 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.

#### 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.

The following table is the setting of the receiver:

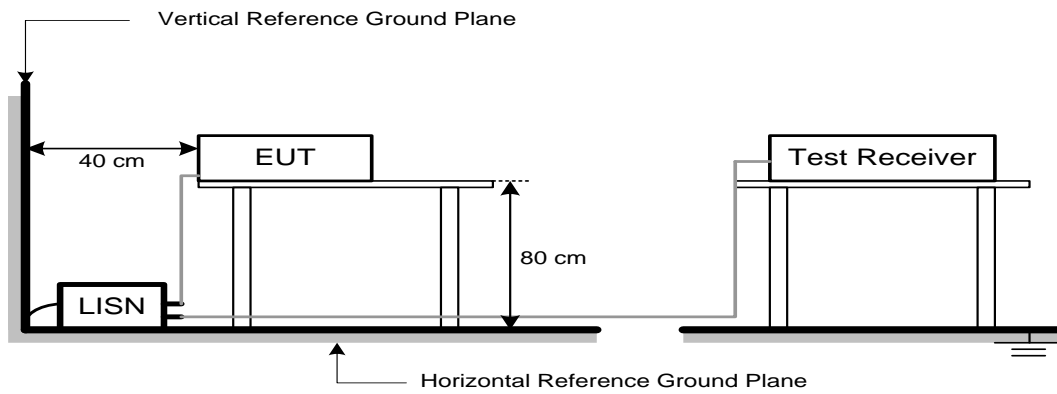
Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

#### 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

### 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 CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

## 4.2 TEST PROCEDURE

- a. 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)
- b. 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)
- c. 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.
- d. 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).
- e. 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.
- f. 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.
- g. 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)
- h. 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)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

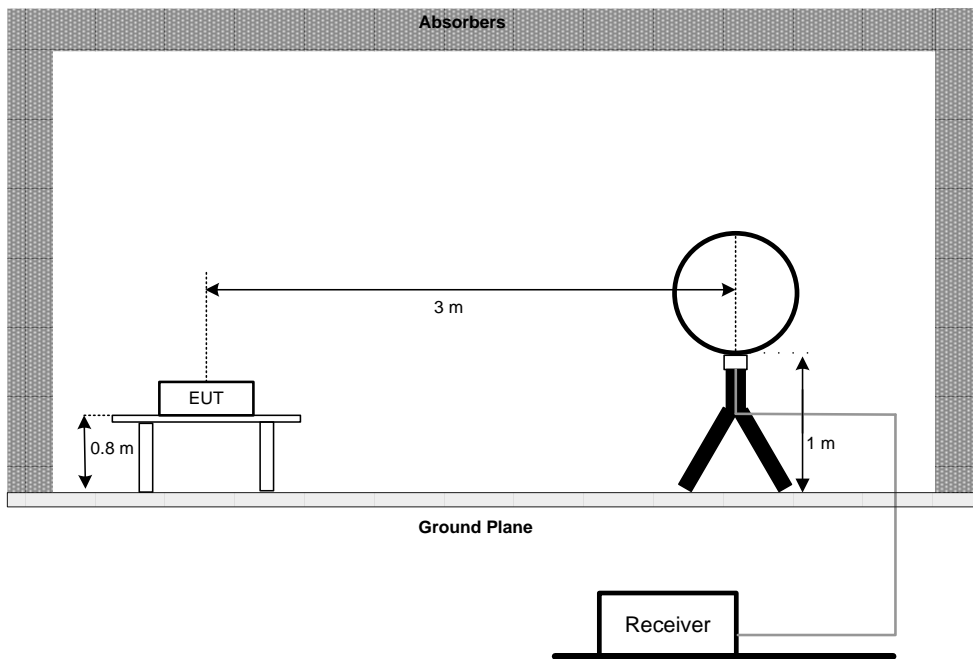
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~26.5 GHz for PK/AVG detector

### 4.3 DEVIATION FROM TEST STANDARD

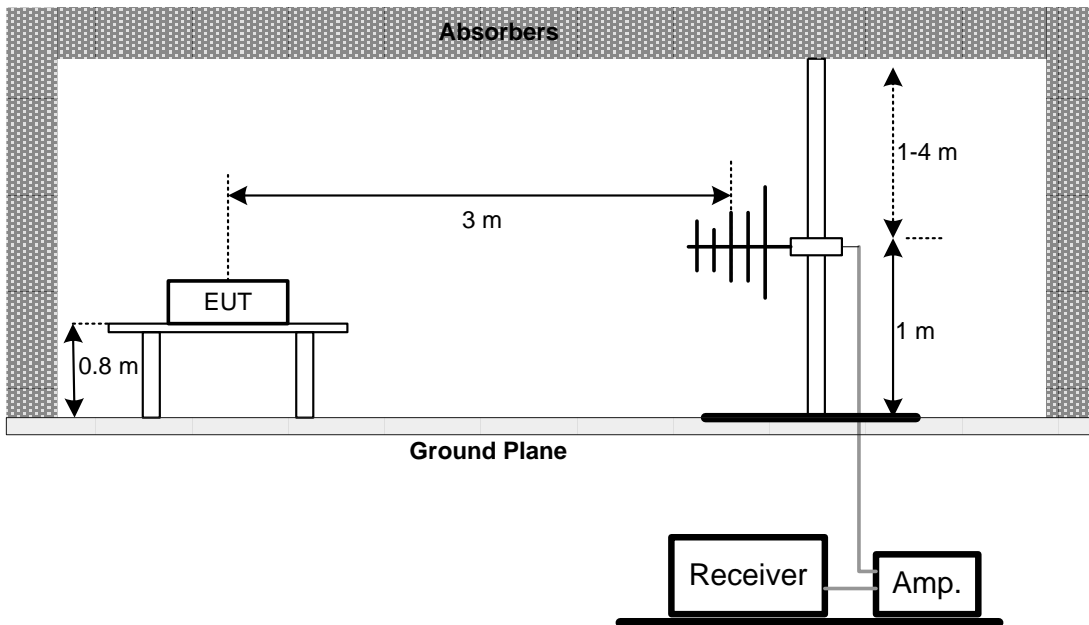
No deviation.

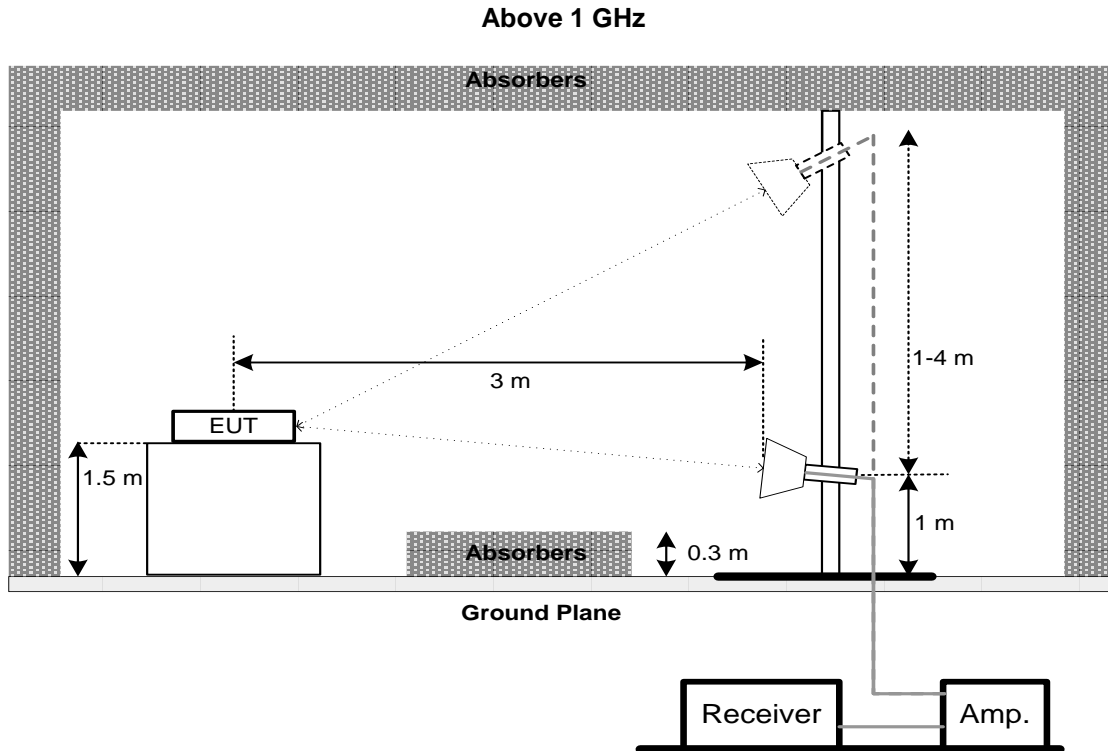
### 4.4 TEST SETUP

#### 9 kHz to 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

### 5.1 LIMIT

Section	Test Item	Limit
FCC 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.
- The following table is the setting of the spectrum analyzer:

For 6 dB Bandwidth:

Spectrum Parameters	Setting
Span Frequency	> Measurement Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span Frequency	Between 1.5 times and 5.0 times the OBW
RBW	300 kHz For 20MHz 1 MHz For 40MHz
VBW	1 MHz For 20MHz 3 MHz For 40MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

### 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

### 6.1 LIMIT

Section	Test Item	Limit
FCC 15.247(b)(3)	Maximum Output Power	1.0000 Watt or 30.00 dBm

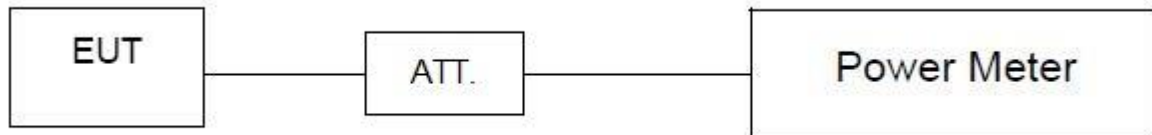
### 6.2 TEST PROCEDURE

- 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 (for peak power) of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

### 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

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
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****8.1 LIMIT**

Section	Test Item	Limit
FCC 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.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	25 MHz (20 MHz) / 60 MHz (40 MHz)
RBW	3 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

**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	Line Impedance Stabilisation Network	Schwarzbeck	NNLK 8121	8121-822	Mar. 20, 2022
2	TWO-LINE V-NETWORK	R&S	ENV216	101340	Aug. 23, 2022
3	Test Cable	emci	EMCRG400-BM-N M-10000	170628	April. 11, 2022
4	EMI Test Receiver	R&S	ESCI	100082	Mar. 21, 2022
5	50Ω Terminator	SHX	TF2-1G-A	17051602	Mar. 20, 2022
6	50Ω coaxial switch	Anritsu	MP59B	6201750902	Mar. 21, 2022
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EMCI	EMCI LPA600	275	May. 20, 2022
2	MXE EMI Receiver	Keysight	N9038A	MY56400088	Mar. 21, 2022
3	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	TRILOG Broadband Antenna	Schwarzbeck	VULB 9160	9160-3233	Mar. 26, 2022
2	Pre-Amplifier	emci	EMC9135	980401	Mar. 20, 2022
3	MXE EMI Receiver	Keysight	N9038A	MY56400088	Mar. 21, 2022
4	Test Cable	emci	EMC104-SM-SM-7 000	181020	Apr. 11, 2022
5	Test Cable	emci	EMC104-SM-SM-2 500	170618	Apr. 11, 2022
6	Test Cable	emci	EMC104-SM-SM-8 00	170647	Apr. 11, 2022
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1817	Mar. 26, 2022
2	Pre-Amplifier	emci	EMC051845SE	980725	Aug. 23, 2022
3	EXA Spectrum Analyzer	Keysight	N9010A	MY56480579	Mar. 21, 2022
4	Test Cable	emci	EMC104-SM-SM-7000	181020	Apr. 11, 2022
5	Test Cable	emci	EMC104-SM-SM-2500	170618	Apr. 11, 2022
6	Test Cable	emci	EMC104-SM-SM-8000	170647	Apr. 11, 2022
7	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	3116C	00203919	May 19, 2022
8	Pre-Amplifier	emci	EMC184045B	980265	Apr. 11, 2022
9	Test Cable	emci	EMC102-SM-SM-8000	170335	Apr. 11, 2022
10	Test Cable	emci	EMC102-KM-KM-2500	170627	Apr. 11, 2022
11	MXE EMI Receiver	Keysight	N9038A	MY5640088	Mar. 21, 2022
12	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	May 29, 2022
2	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyze	Keysight	8990B	MY51000507	Mar. 21, 2022
2	Wideband Power Sensor	Keysight	N1923A	MY58310003	Mar. 21, 2022
3	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A

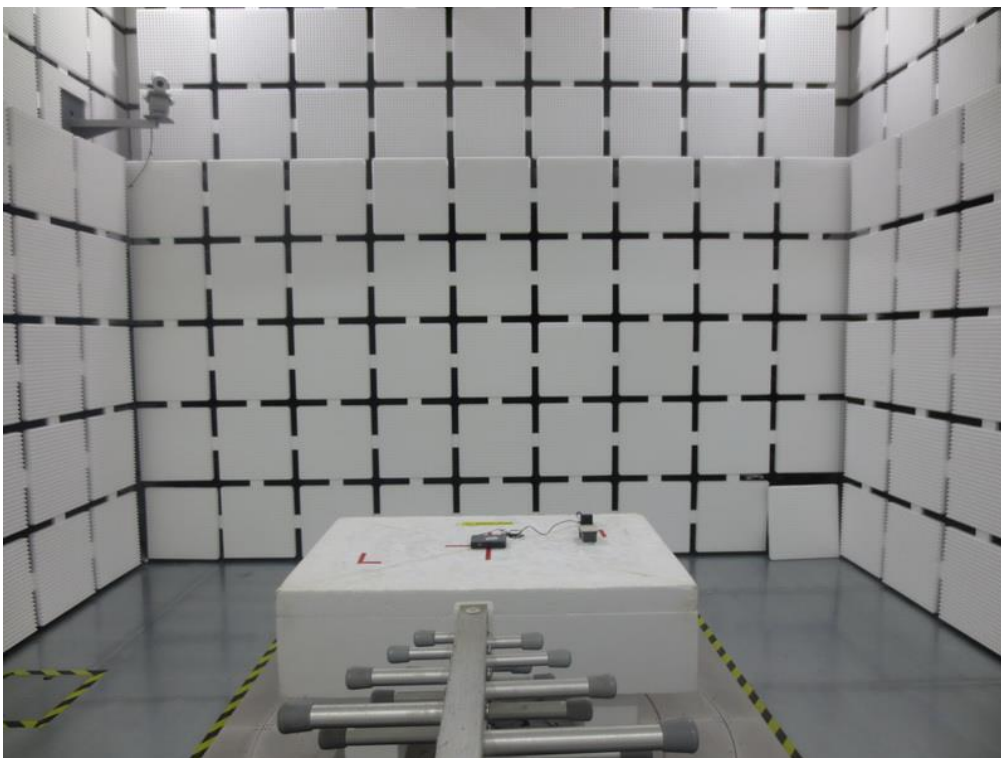
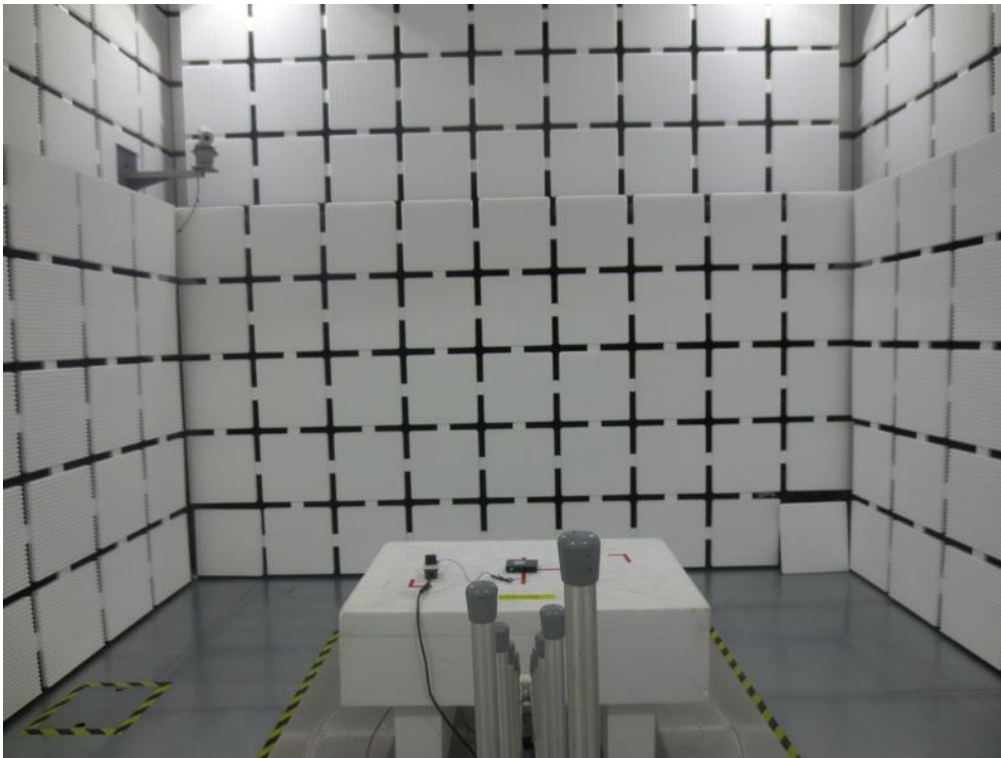
Antenna Conducted Spurious Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	May 29, 2022
2	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A

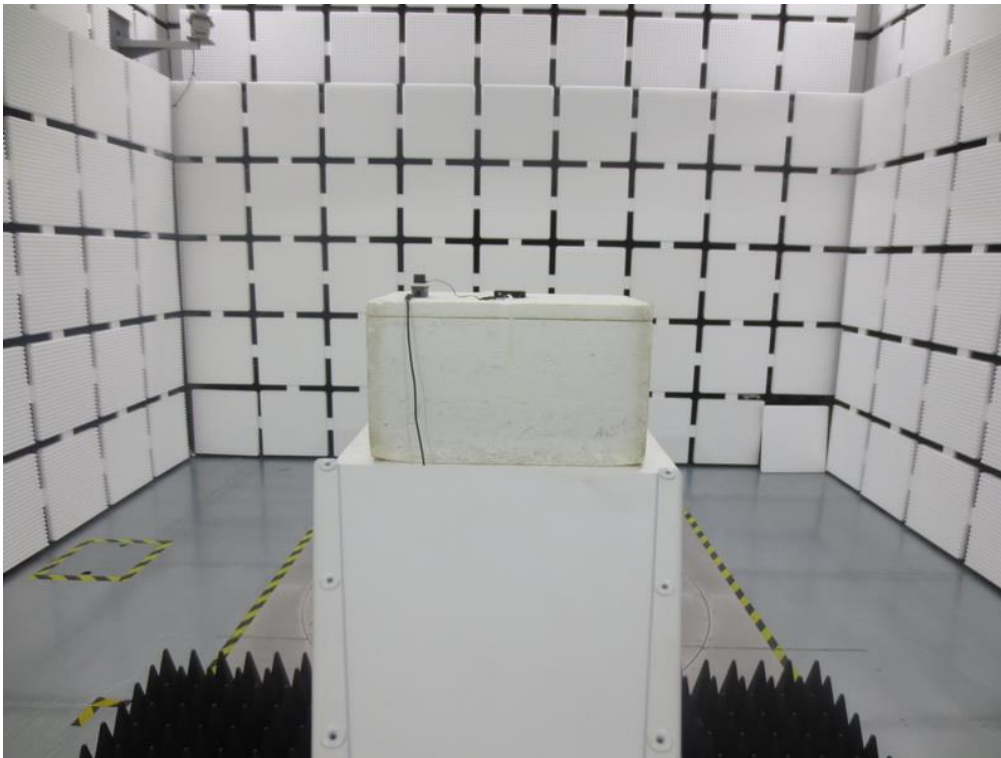
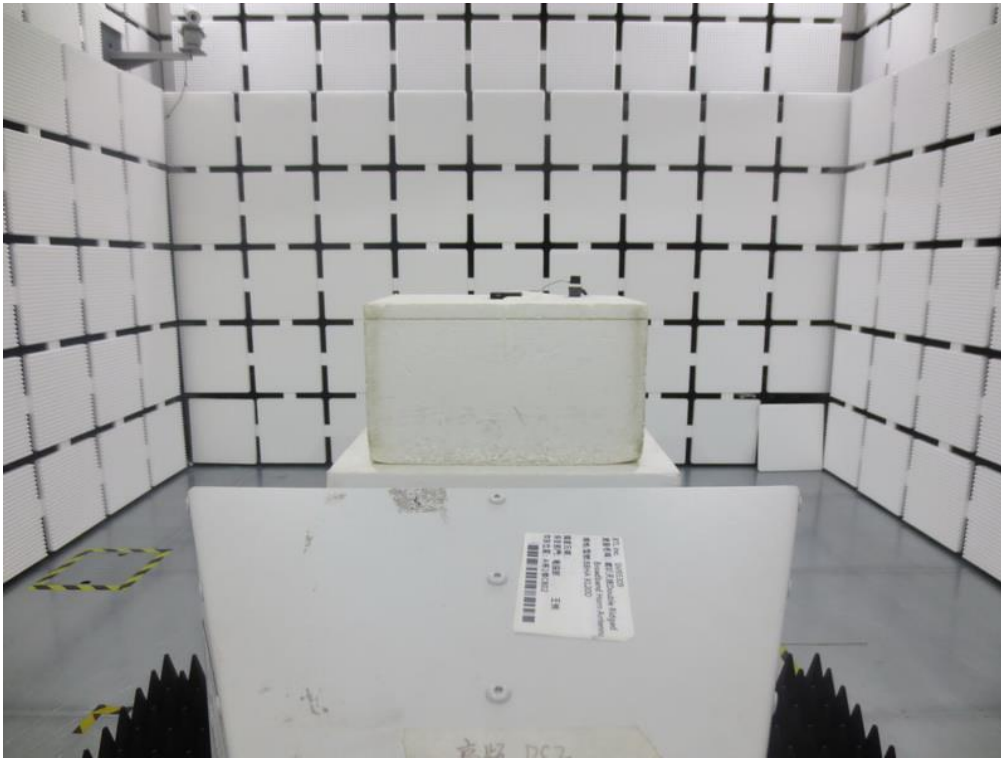
Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	May 29, 2022
2	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A

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****AC Power Line Conducted Emissions Test Photos**

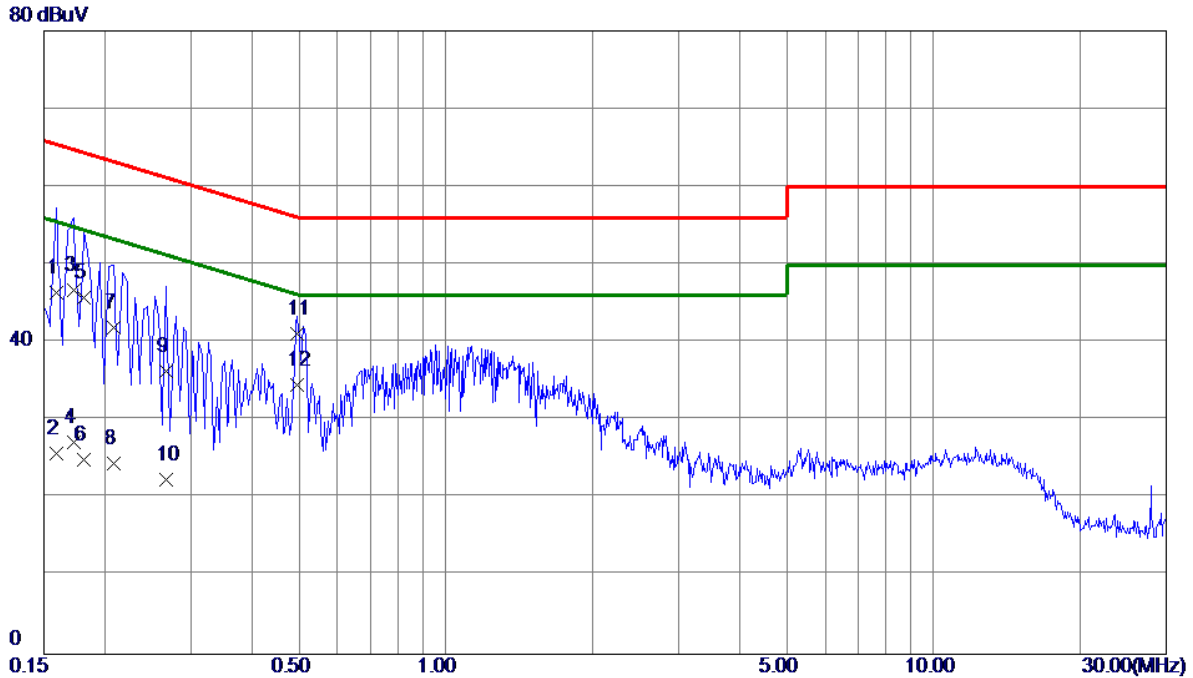
**Radiated Emissions Test Photos****30 MHz to 1 GHz**

**Radiated Emissions Test Photos****Above 1 GHz**

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

## MTK7661

Test Mode	TX N(HT40) Mode Channel 06	Phase	Line
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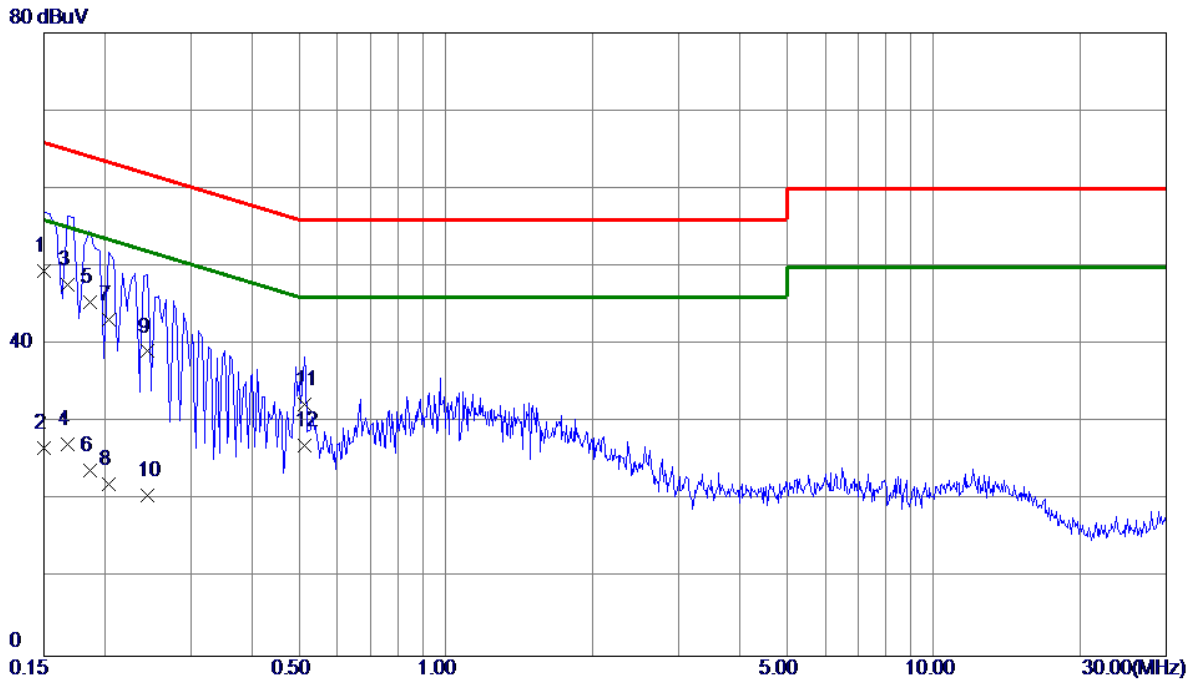
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1590	36.70	9.72	46.42	65.52	-19.10	QP	
2	0.1590	16.10	9.72	25.82	55.52	-29.70	AVG	
3	0.1725	37.00	9.73	46.73	64.84	-18.11	QP	
4	0.1725	17.50	9.73	27.23	54.84	-27.61	AVG	
5	0.1815	36.00	9.73	45.73	64.42	-18.69	QP	
6	0.1815	15.20	9.73	24.93	54.42	-29.49	AVG	
7	0.2085	32.20	9.74	41.94	63.26	-21.32	QP	
8	0.2085	14.80	9.74	24.54	53.26	-28.72	AVG	
9	0.2670	26.51	9.75	36.26	61.21	-24.95	QP	
10	0.2670	12.71	9.75	22.46	51.21	-28.75	AVG	
11	0.4965	31.30	9.79	41.09	56.06	-14.97	QP	
12 *	0.4965	24.70	9.79	34.49	46.06	-11.57	AVG	

**REMARKS:**

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



Test Mode	TX N(HT40) Mode Channel 06	Phase	Neutral
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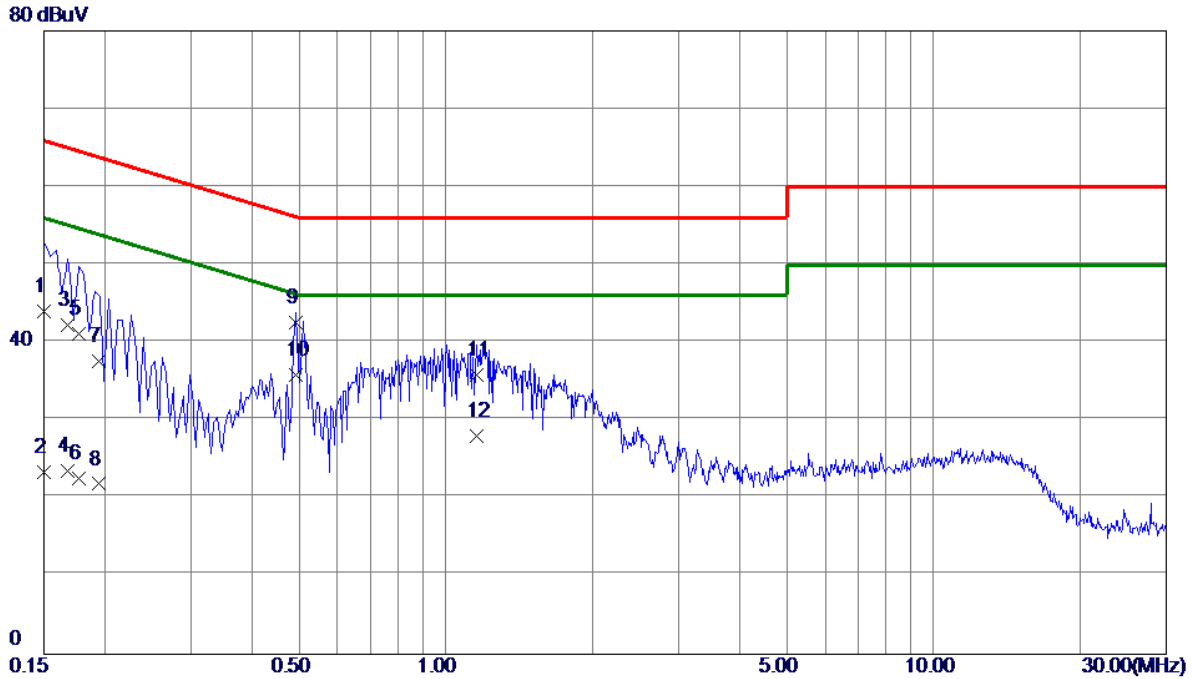
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1500	39.80	9.68	49.48	66.00	-16.52	QP	
2	0.1500	17.00	9.68	26.68	56.00	-29.32	AVG	
3	0.1680	38.01	9.69	47.70	65.06	-17.36	QP	
4	0.1680	17.51	9.69	27.20	55.06	-27.86	AVG	
5	0.1860	35.80	9.70	45.50	64.21	-18.71	QP	
6	0.1860	14.10	9.70	23.80	54.21	-30.41	AVG	
7	0.2040	33.50	9.71	43.21	63.45	-20.24	QP	
8	0.2040	12.30	9.71	22.01	53.45	-31.44	AVG	
9	0.2445	29.40	9.72	39.12	61.94	-22.82	QP	
10	0.2445	10.90	9.72	20.62	51.94	-31.32	AVG	
11	0.5144	22.50	9.77	32.27	56.00	-23.73	QP	
12	0.5144	17.30	9.77	27.07	46.00	-18.93	AVG	

**REMARKS:**

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

## MTK7663

Test Mode	TX N(HT40) Mode Channel 03	Phase	Line
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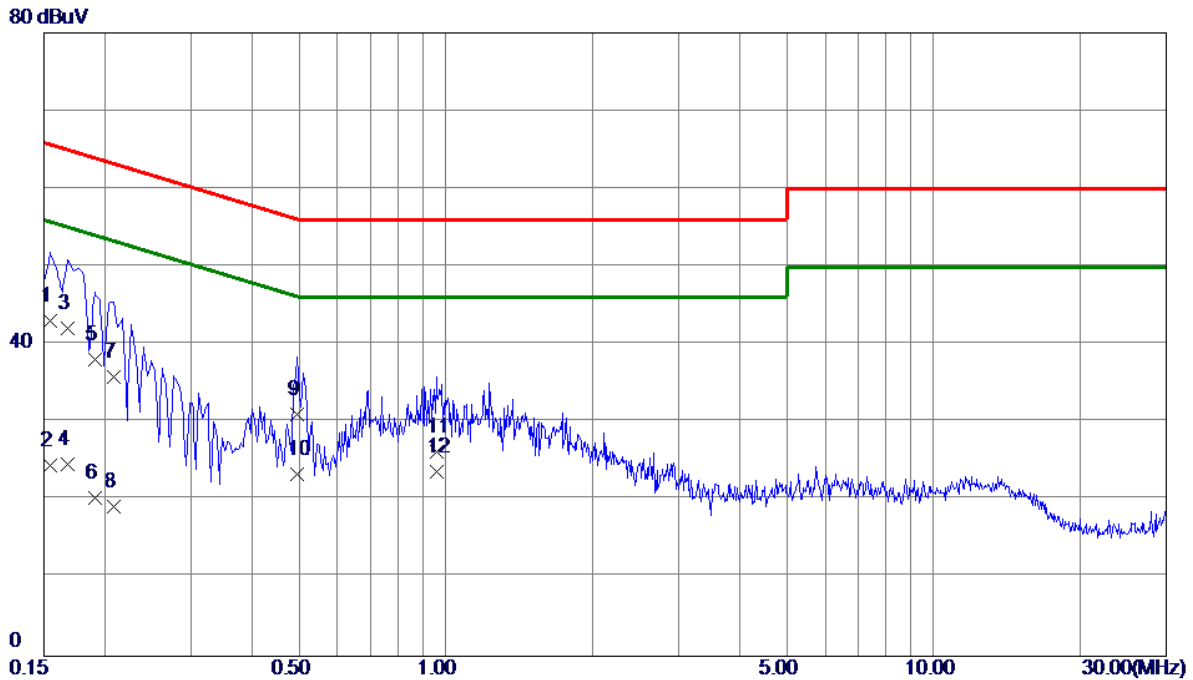


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	34.30	9.71	44.01	66.00	-21.99	QP	
2	0.1500	13.60	9.71	23.31	56.00	-32.69	AVG	
3	0.1680	32.51	9.72	42.23	65.06	-22.83	QP	
4	0.1680	13.81	9.72	23.53	55.06	-31.53	AVG	
5	0.1770	31.40	9.73	41.13	64.63	-23.50	QP	
6	0.1770	12.80	9.73	22.53	54.63	-32.10	AVG	
7	0.1949	27.80	9.74	37.54	63.83	-26.29	QP	
8	0.1949	12.10	9.74	21.84	53.83	-31.99	AVG	
9	0.4920	32.70	9.79	42.49	56.13	-13.64	QP	
10 *	0.4920	26.10	9.79	35.89	46.13	-10.24	AVG	
11	1.1580	26.00	9.85	35.85	56.00	-20.15	QP	
12	1.1580	18.10	9.85	27.95	46.00	-18.05	AVG	

**REMARKS:**

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

Test Mode	TX N(HT40) Mode Channel 03	Phase	Neutral
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No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1545	33.30	9.69	42.99	65.75	-22.76	QP	
2	0.1545	14.80	9.69	24.49	55.75	-31.26	AVG	
3	0.1680	32.41	9.69	42.10	65.06	-22.96	QP	
4	0.1680	14.91	9.69	24.60	55.06	-30.46	AVG	
5	0.1905	28.40	9.71	38.11	64.01	-25.90	QP	
6	0.1905	10.60	9.71	20.31	54.01	-33.70	AVG	
7	0.2085	26.20	9.71	35.91	63.26	-27.35	QP	
8	0.2085	9.50	9.71	19.21	53.26	-34.05	AVG	
9	0.4965	21.30	9.77	31.07	56.06	-24.99	QP	
10	0.4965	13.60	9.77	23.37	46.06	-22.69	AVG	
11	0.9555	16.40	9.81	26.21	56.00	-29.79	QP	
12 *	0.9555	13.80	9.81	23.61	46.00	-22.39	AVG	

REMARKS:

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

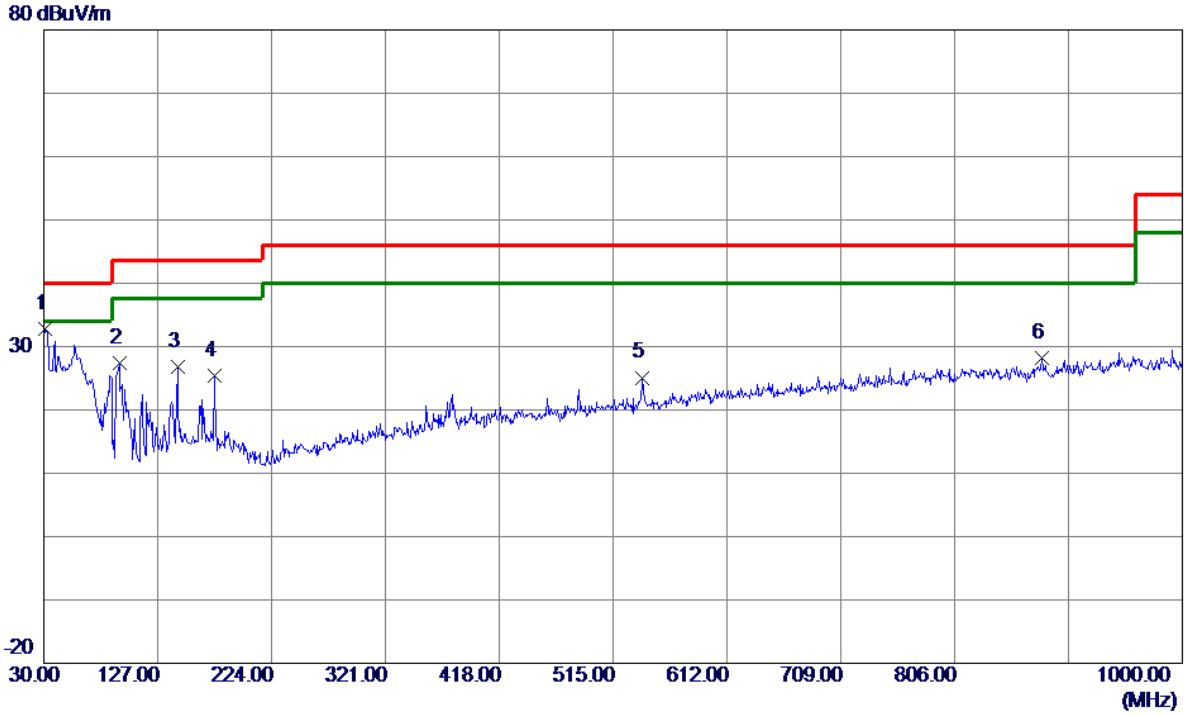
## **APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ**

Note: The measured value have enough margin over 20dB than the limit, therefore they are not reported.

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

## MTK7661

Test Mode	TX N(HT40) Mode Channel 06	Polarization	Vertical
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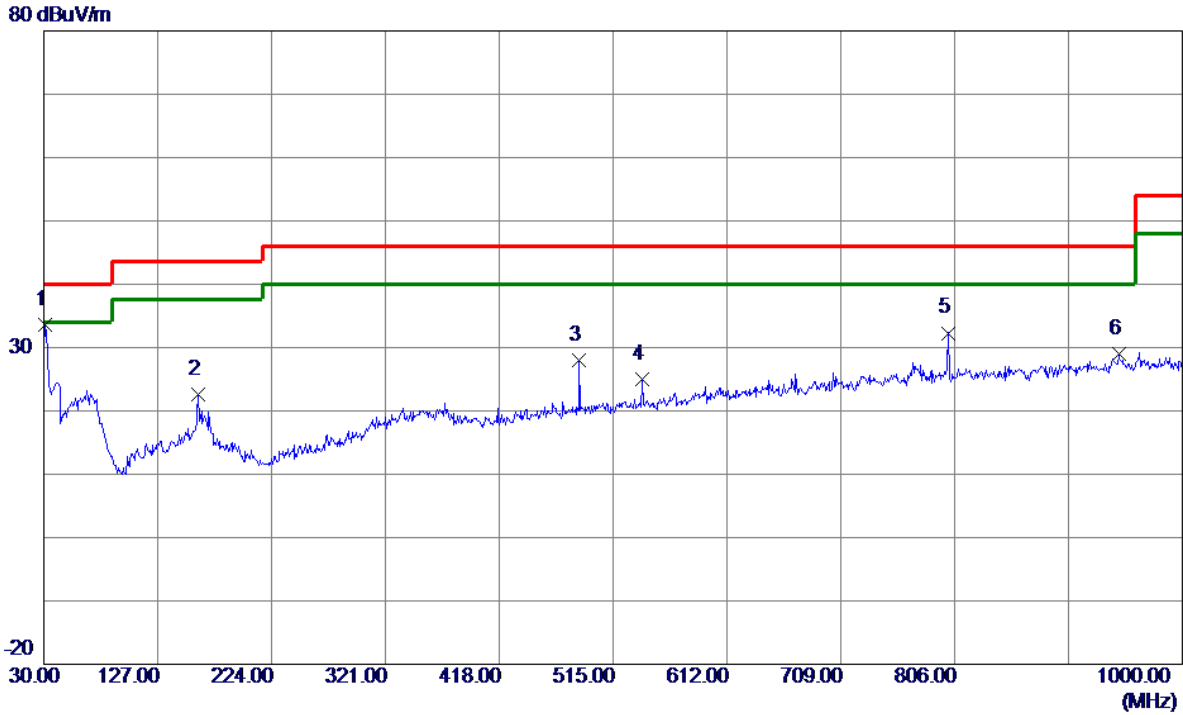


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	31.4550	51.13	-18.37	32.76	40.00	-7.24	Peak	
2	94.5050	49.31	-21.94	27.37	43.50	-16.13	Peak	
3	143.9750	43.39	-16.59	26.80	43.50	-16.70	Peak	
4	175.0150	42.22	-16.83	25.39	43.50	-18.11	Peak	
5	540.2199	35.72	-10.62	25.10	46.00	-20.90	Peak	
6	880.2050	34.28	-6.11	28.17	46.00	-17.83	Peak	

**REMARKS:**

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

Test Mode	TX N(HT40) Mode Channel 06	Polarization	Horizontal
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	31.4550	51.95	-18.37	33.58	40.00	-6.42	Peak	
2	161.9200	38.70	-16.11	22.59	43.50	-20.91	Peak	
3	485.9000	39.38	-11.43	27.95	46.00	-18.05	Peak	
4	540.2199	35.57	-10.62	24.95	46.00	-21.05	Peak	
5	800.1800	38.83	-6.53	32.30	46.00	-13.70	Peak	
6	946.1650	34.20	-5.18	29.02	46.00	-16.98	Peak	

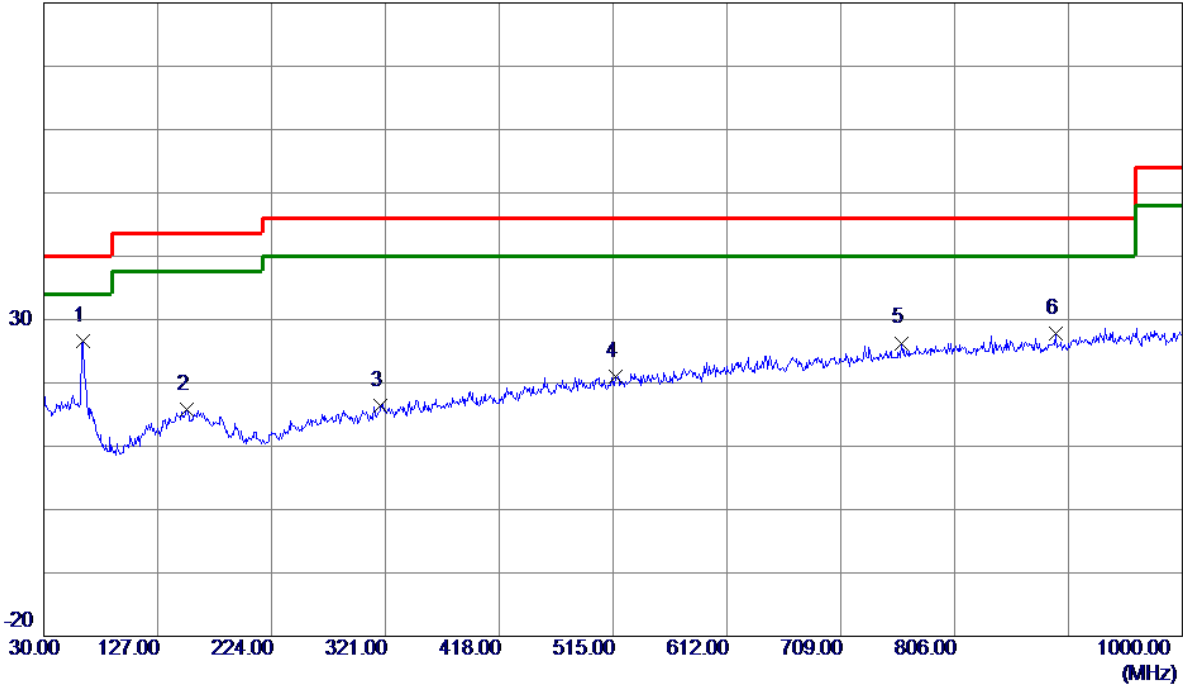
**REMARKS:**

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

## MTK7663

Test Mode	TX N(HT40) Mode Channel 03	Polarization	Vertical
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80 dBuV/m



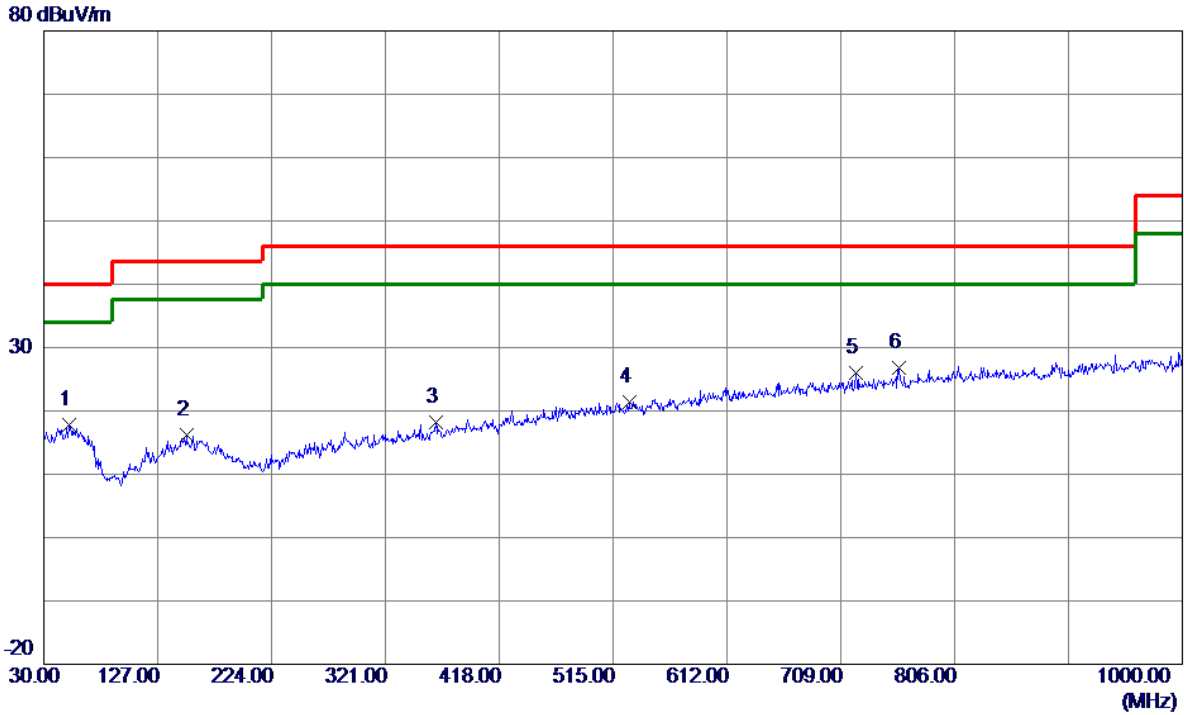
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	63.4650	44.15	-17.59	26.56	40.00	-13.44	Peak	
2	152.2200	31.93	-16.22	15.71	43.50	-27.79	Peak	
3	317.1200	31.44	-15.13	16.31	46.00	-29.69	Peak	
4	516.9400	31.91	-10.95	20.96	46.00	-25.04	Peak	
5	760.8950	33.31	-7.01	26.30	46.00	-19.70	Peak	
6	891.8450	33.78	-6.01	27.77	46.00	-18.23	Peak	

**REMARKS:**

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



Test Mode	TX N(HT40) Mode Channel 03	Polarization	Horizontal
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	51.8250	34.62	-16.80	17.82	40.00	-22.18	Peak	
2	151.7350	32.47	-16.23	16.24	43.50	-27.26	Peak	
3	363.6800	32.51	-14.25	18.26	46.00	-27.74	Peak	
4	528.5800	32.24	-10.79	21.45	46.00	-24.55	Peak	
5	721.6100	33.74	-7.65	26.09	46.00	-19.91	Peak	
6 *	758.4699	33.85	-7.06	26.79	46.00	-19.21	Peak	

**REMARKS:**

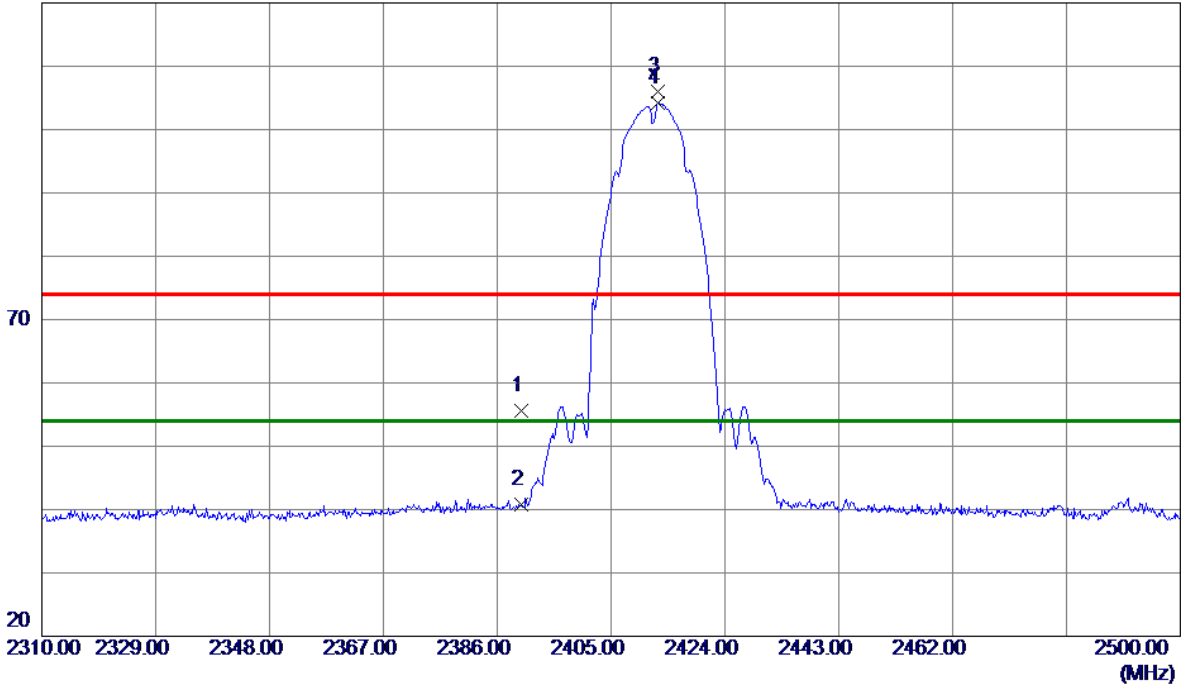
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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

## MTK 7661

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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120 dBuV/m



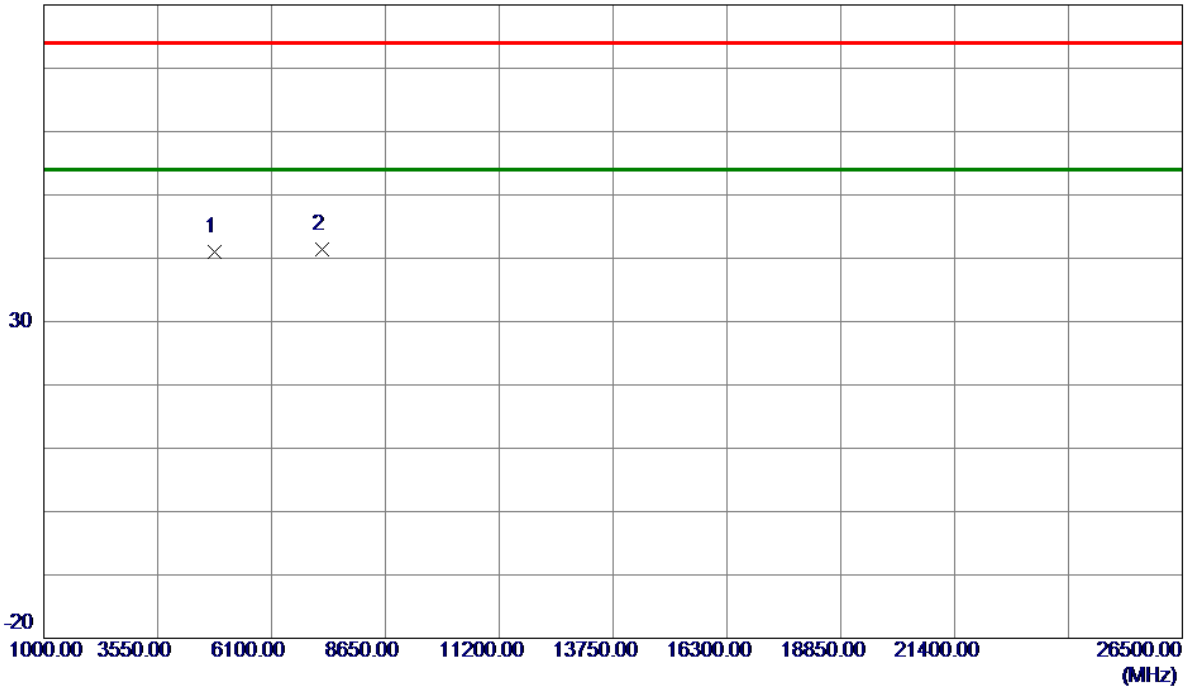
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.85	31.74	55.59	74.00	-18.41	Peak	
2	2390.0000	9.13	31.74	40.87	54.00	-13.13	AVG	
3	2412.7900	74.23	31.72	105.95	74.00	31.95	Peak	No limit
4 *	2412.7900	72.40	31.72	104.12	54.00	50.12	AVG	No limit

**REMARKS:**

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

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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80 dBuV/m



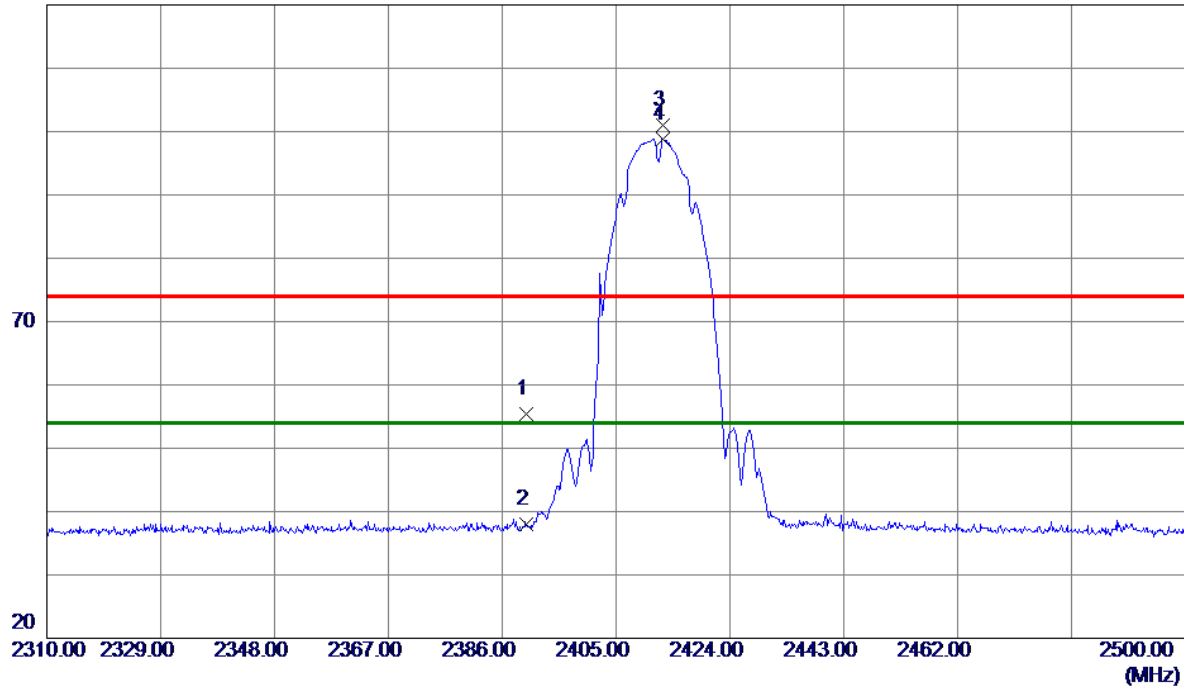
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	57.95	-16.98	40.97	74.00	-33.03	Peak	
2 *	7236.0000	54.26	-12.89	41.37	74.00	-32.63	Peak	

**REMARKS:**

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

Test Mode	TX B Mode 2412 MHz	Polarization	Horizontal
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120 dBuV/m



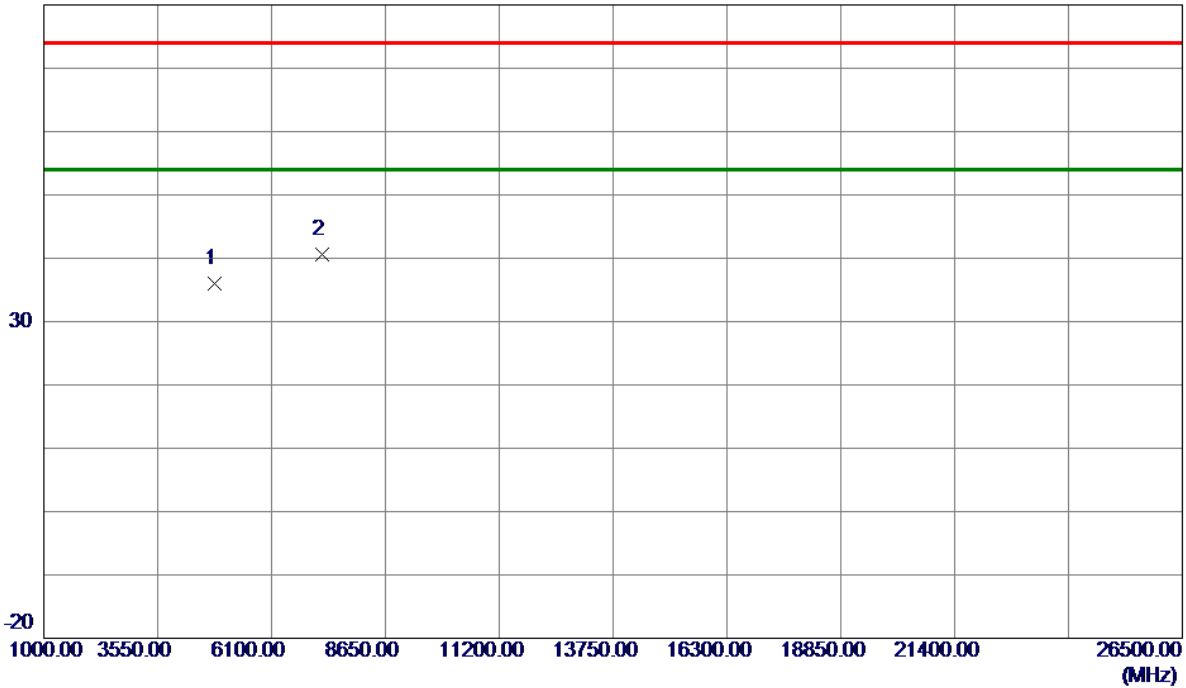
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.64	31.74	55.38	74.00	-18.62	Peak	
2	2390.0000	6.34	31.74	38.08	54.00	-15.92	AVG	
3	2412.7900	69.26	31.72	100.98	74.00	26.98	Peak	No limit
4 *	2412.7900	67.14	31.72	98.86	54.00	44.86	AVG	No limit

**REMARKS:**

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

Test Mode	TX B Mode 2412 MHz	Polarization	Horizontal
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80 dBuV/m

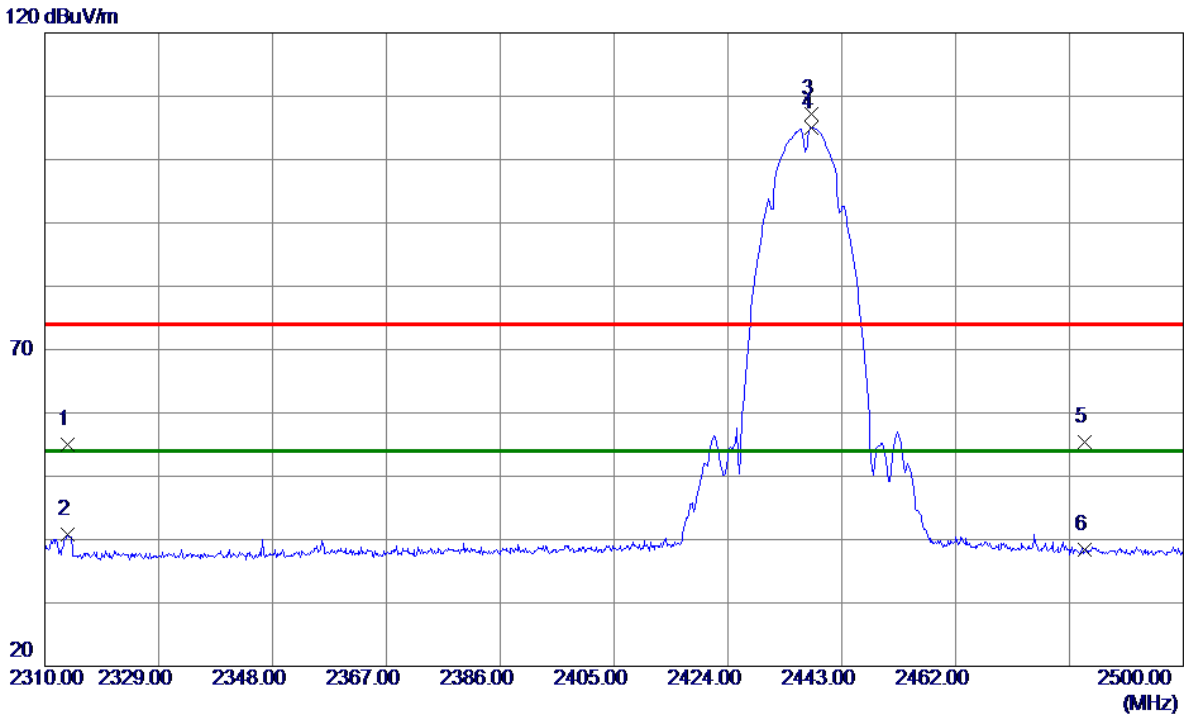


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	52.89	-16.98	35.91	74.00	-38.09	Peak	
2 *	7236.0000	53.51	-12.89	40.62	74.00	-33.38	Peak	

**REMARKS:**

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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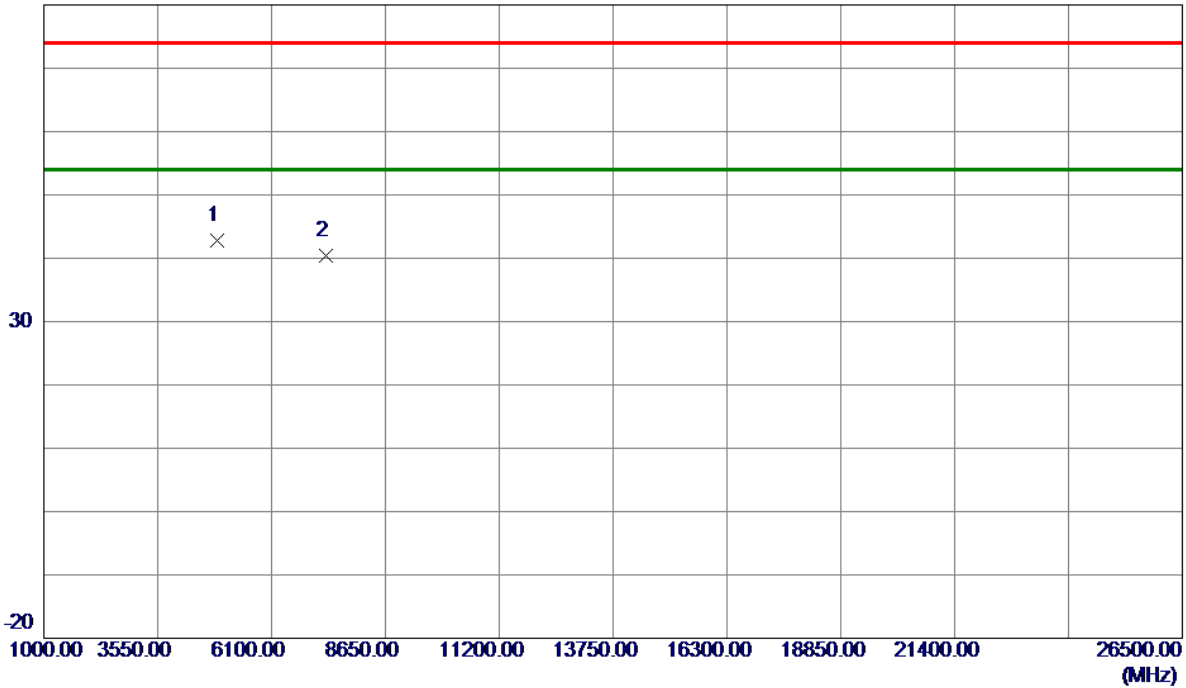
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2313.8950	23.20	31.89	55.09	74.00	-18.91	Peak	
2	2313.8950	8.83	31.89	40.72	54.00	-13.28	AVG	
3	2437.8700	75.52	31.72	107.24	74.00	33.24	Peak	No limit
4 *	2437.8700	73.35	31.72	105.07	54.00	51.07	AVG	No limit
5	2483.5000	23.70	31.71	55.41	74.00	-18.59	Peak	
6	2483.5000	6.63	31.71	38.34	54.00	-15.66	AVG	

**REMARKS:**

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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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 *	4874.0000	59.71	-16.91	42.80	74.00	-31.20	Peak	
2	7311.0000	53.23	-12.84	40.39	74.00	-33.61	Peak	

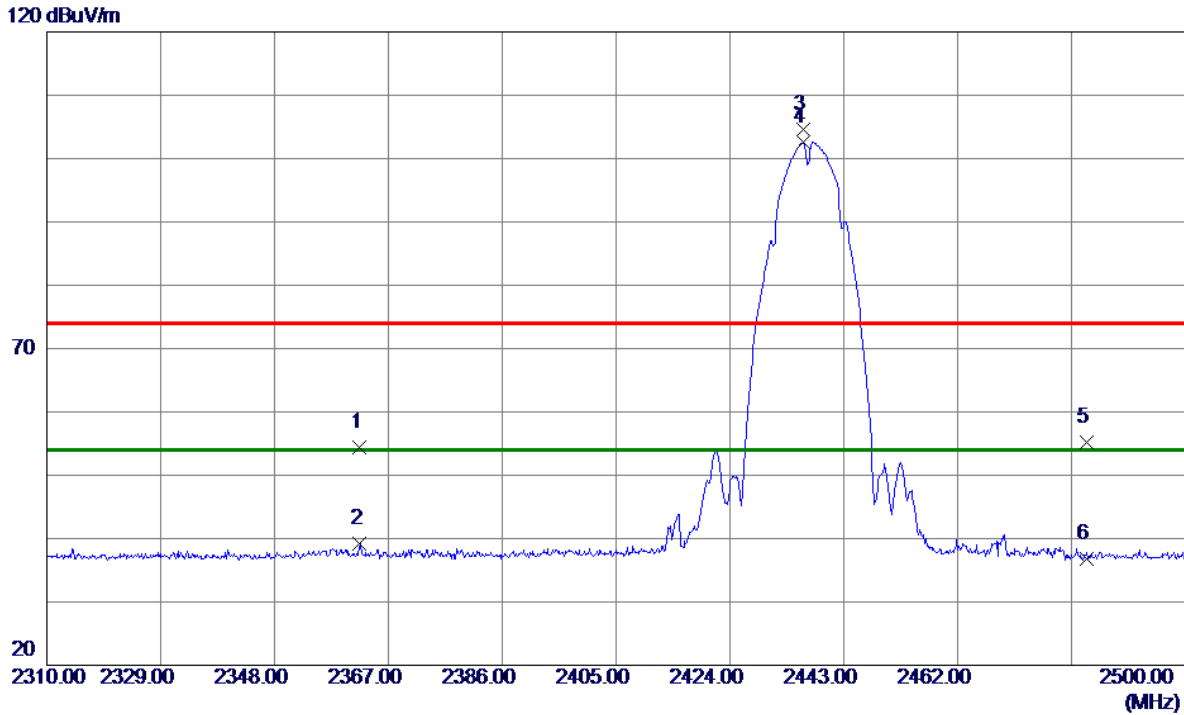
**REMARKS:**

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

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



Test Mode	TX B Mode 2437 MHz	Polarization	Horizontal
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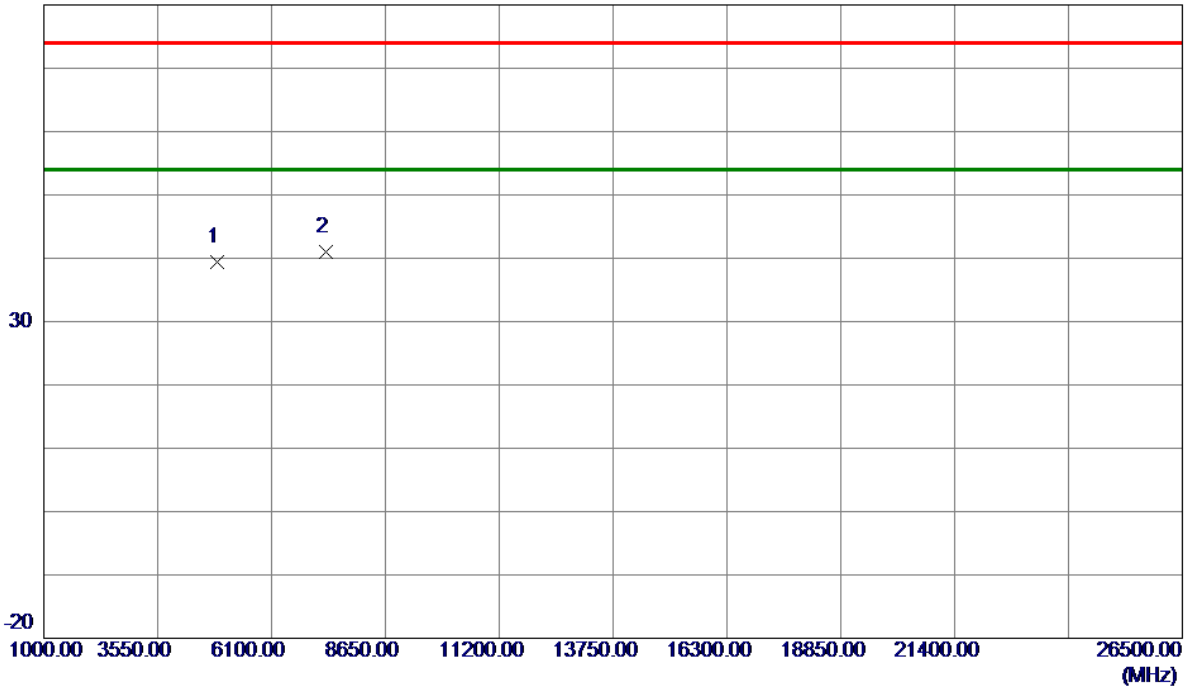
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2362.2500	22.55	31.79	54.34	74.00	-19.66	Peak	
2	2362.2500	7.50	31.79	39.29	54.00	-14.71	AVG	
3	2436.3500	72.92	31.72	104.64	74.00	30.64	Peak	No limit
4 *	2436.3500	70.97	31.72	102.69	54.00	48.69	AVG	No limit
5	2483.5000	23.47	31.71	55.18	74.00	-18.82	Peak	
6	2483.5000	5.10	31.71	36.81	54.00	-17.19	AVG	

**REMARKS:**

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

Test Mode	TX B Mode 2437 MHz	Polarization	Horizontal
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80 dBuV/m

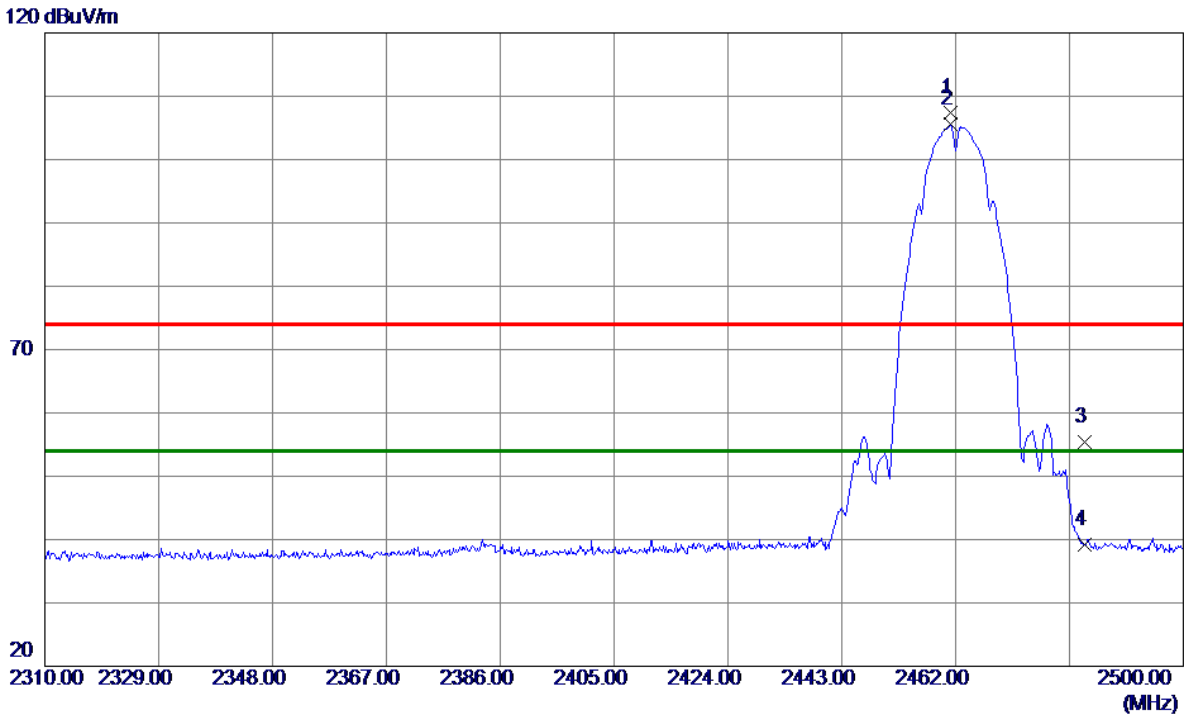


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	56.32	-16.91	39.41	74.00	-34.59	Peak	
2 *	7311.0000	53.78	-12.84	40.94	74.00	-33.06	Peak	

**REMARKS:**

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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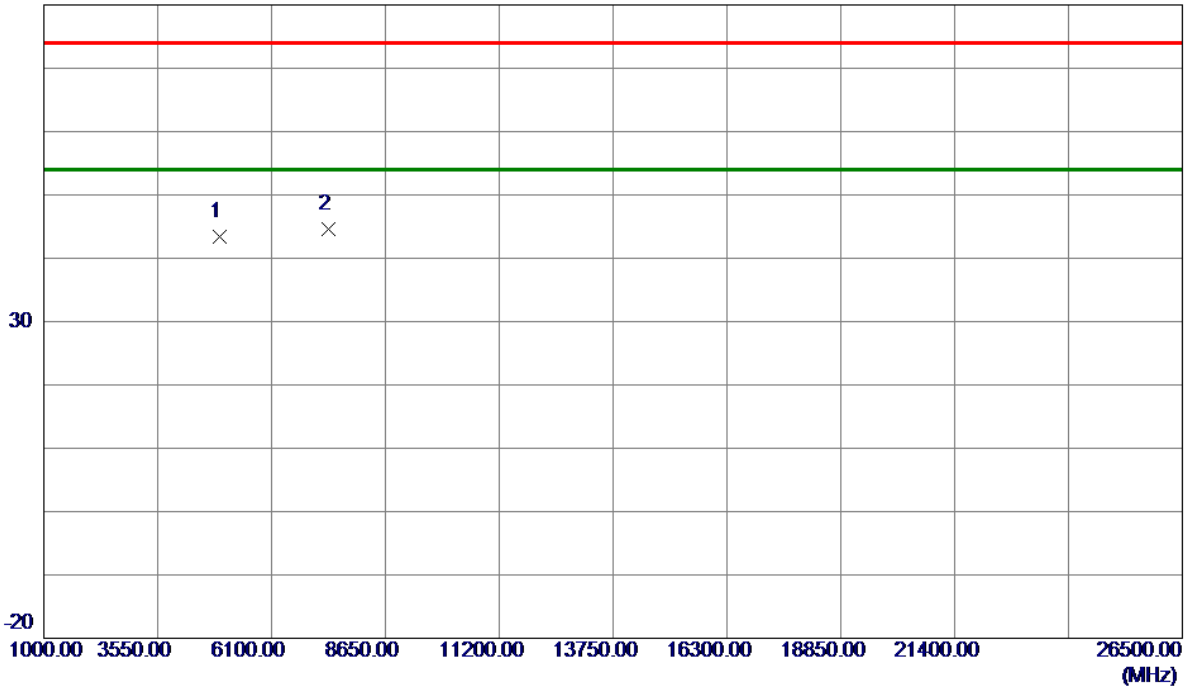
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.2400	75.76	31.71	107.47	74.00	33.47	Peak	No limit
2 *	2461.2400	73.80	31.71	105.51	54.00	51.51	AVG	No limit
3	2483.5000	23.69	31.71	55.40	74.00	-18.60	Peak	
4	2483.5000	7.40	31.71	39.11	54.00	-14.89	AVG	

**REMARKS:**

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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80 dBuV/m



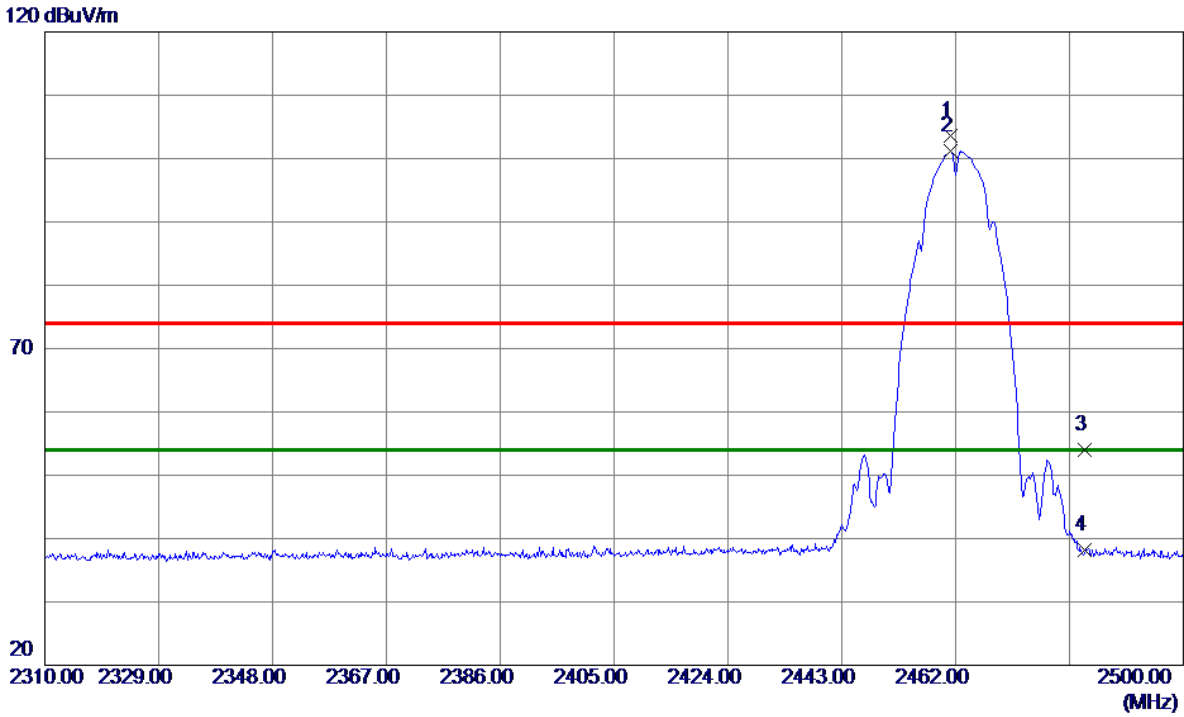
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.4500	60.11	-16.77	43.34	74.00	-30.66	Peak	
2 *	7383.9250	57.30	-12.79	44.51	74.00	-29.49	Peak	

**REMARKS:**

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

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

Test Mode	TX B Mode 2462 MHz	Polarization	Horizontal
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.2400	71.82	31.71	103.53	74.00	29.53	Peak	No limit
2 *	2461.2400	69.53	31.71	101.24	54.00	47.24	AVG	No limit
3	2483.5000	22.36	31.71	54.07	74.00	-19.93	Peak	
4	2483.5000	6.56	31.71	38.27	54.00	-15.73	AVG	

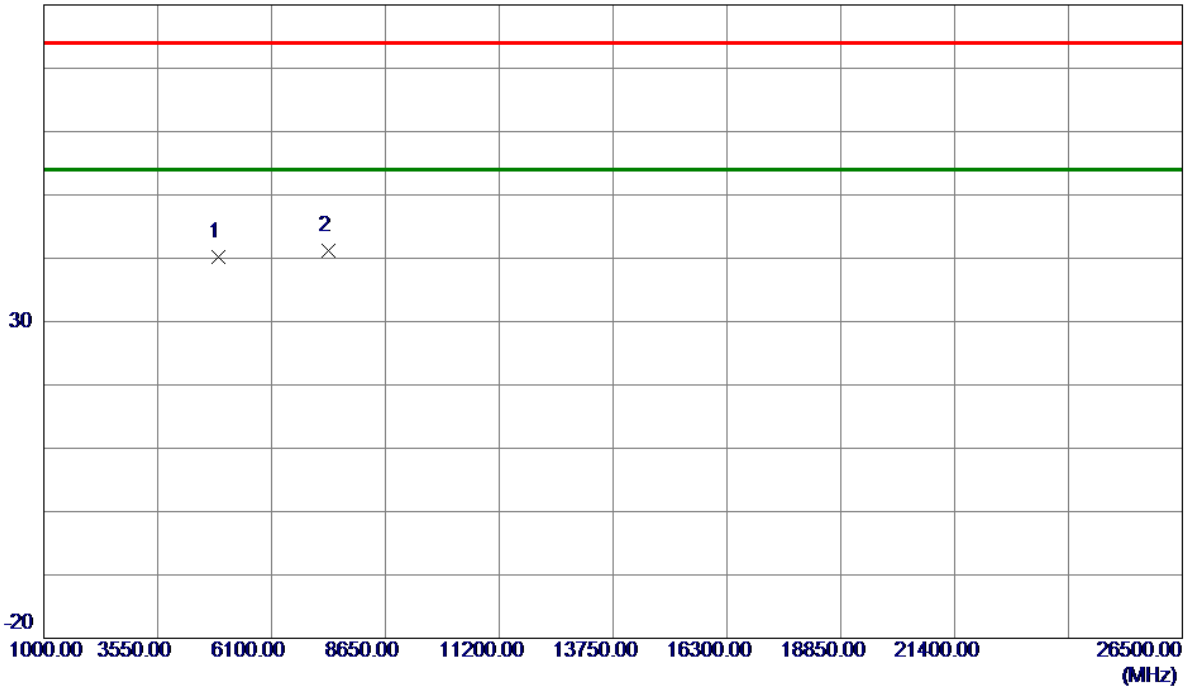
**REMARKS:**

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

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

Test Mode	TX B Mode 2462 MHz	Polarization	Horizontal
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80 dBuV/m

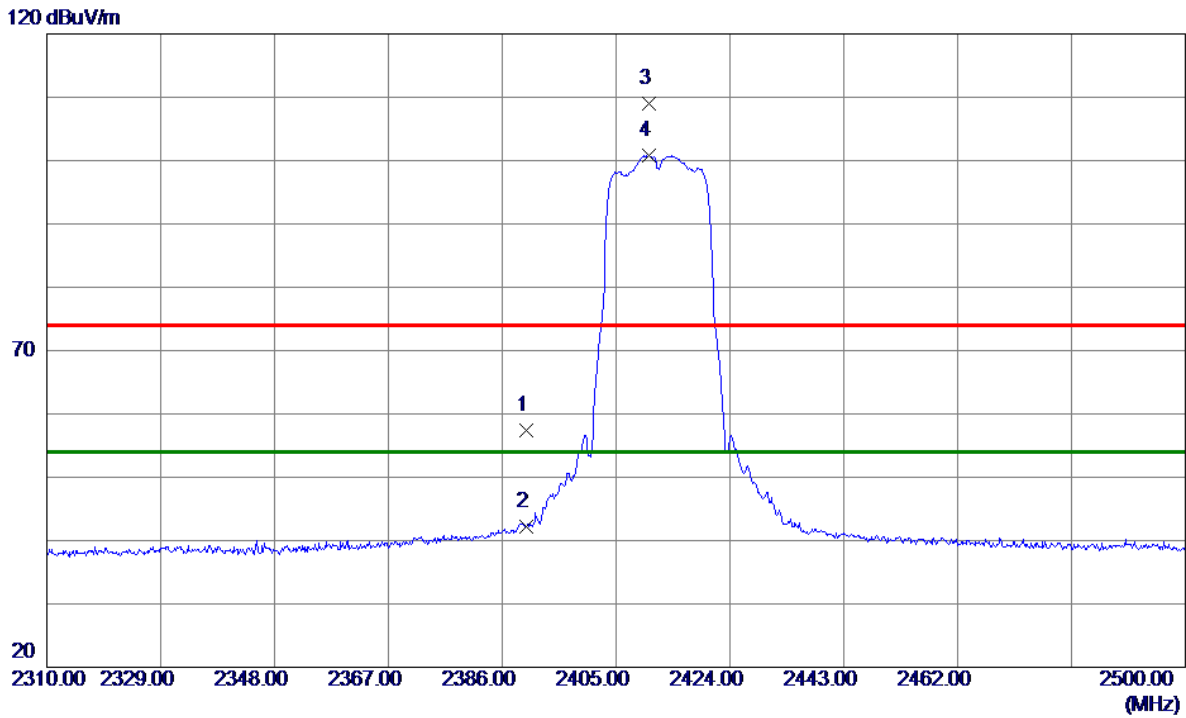


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	56.92	-16.77	40.15	74.00	-33.85	Peak	
2 *	7386.0000	54.05	-12.79	41.26	74.00	-32.74	Peak	

**REMARKS:**

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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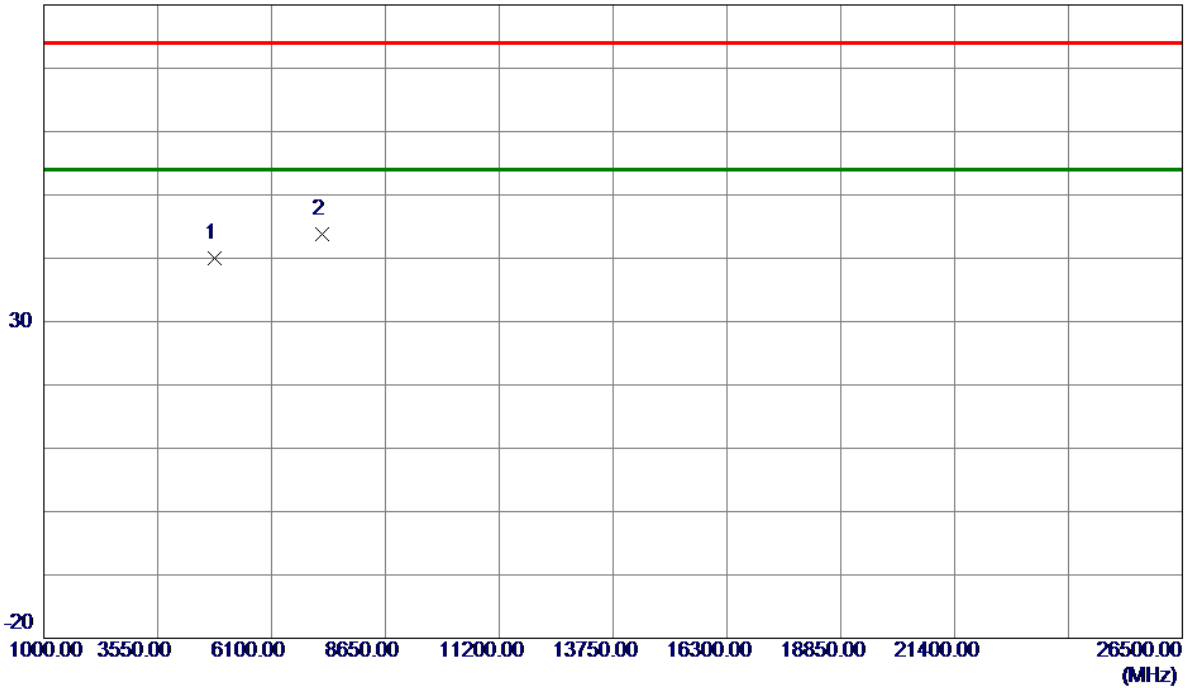
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	25.61	31.74	57.35	74.00	-16.65	Peak	
2	2390.0000	10.51	31.74	42.25	54.00	-11.75	AVG	
3	2410.5100	77.19	31.72	108.91	74.00	34.91	Peak	No limit
4 *	2410.5100	69.11	31.72	100.83	54.00	46.83	AVG	No limit

**REMARKS:**

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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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	4824.0000	56.90	-16.98	39.92	74.00	-34.08	Peak	
2 *	7236.0000	56.77	-12.89	43.88	74.00	-30.12	Peak	

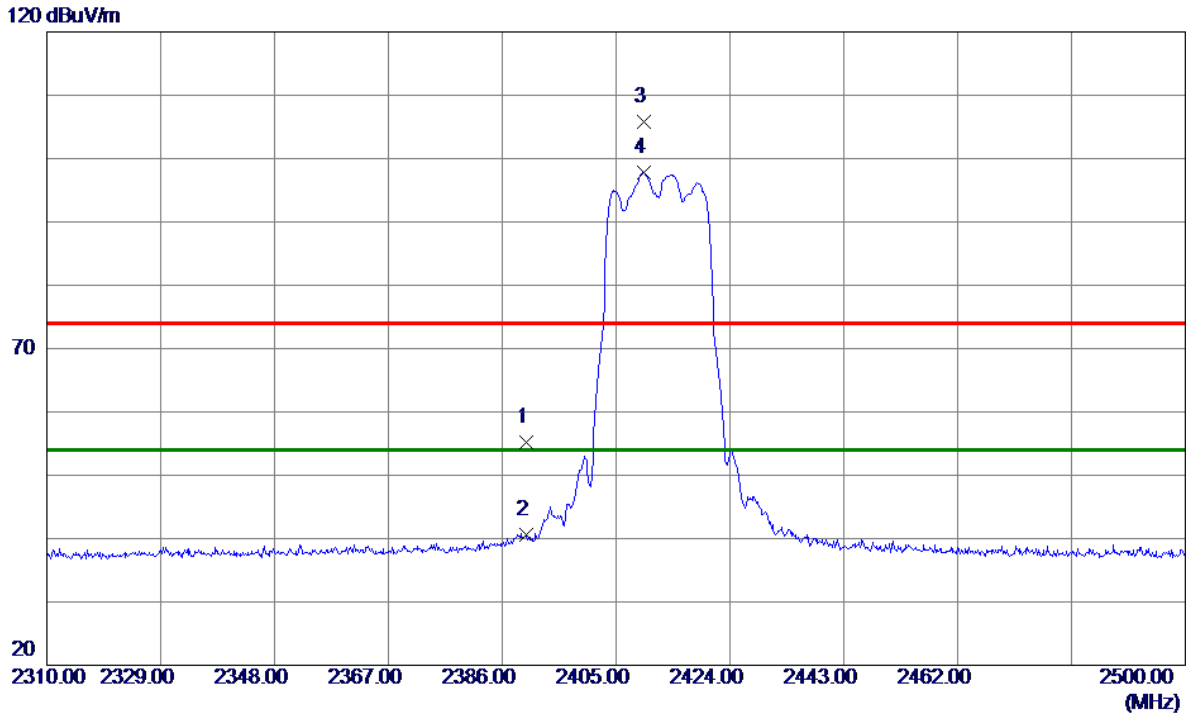
**REMARKS:**

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

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



Test Mode	TX G Mode 2412 MHz	Polarization	Horizontal
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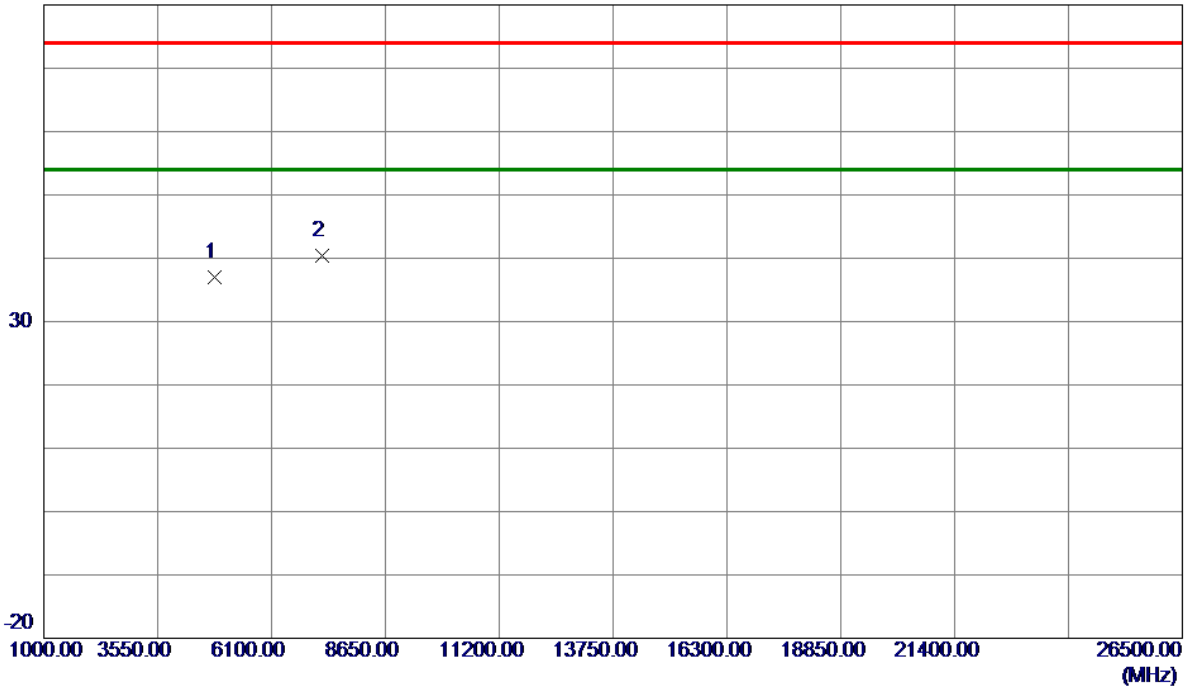
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.46	31.74	55.20	74.00	-18.80	Peak	
2	2390.0000	8.83	31.74	40.57	54.00	-13.43	AVG	
3	2409.5600	74.08	31.72	105.80	74.00	31.80	Peak	No limit
4 *	2409.5600	66.17	31.72	97.89	54.00	43.89	AVG	No limit

**REMARKS:**

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

Test Mode	TX G Mode 2412 MHz	Polarization	Horizontal
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80 dBuV/m

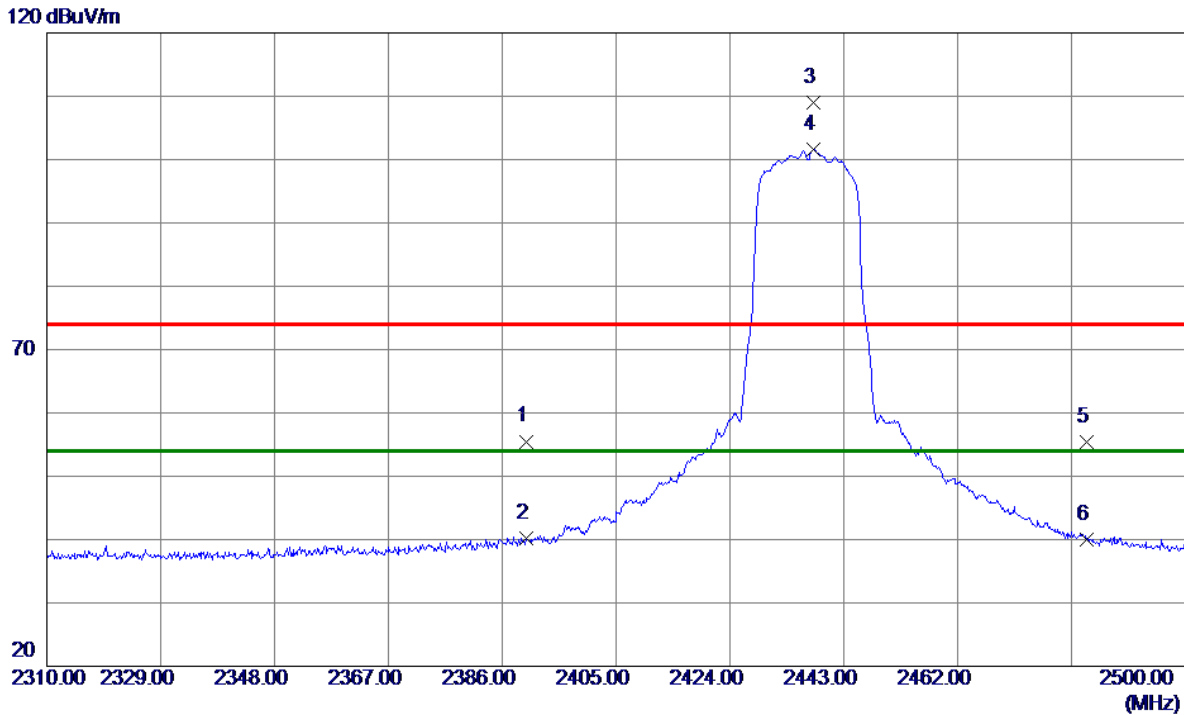


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	53.97	-16.98	36.99	74.00	-37.01	Peak	
2 *	7236.0000	53.28	-12.89	40.39	74.00	-33.61	Peak	

**REMARKS:**

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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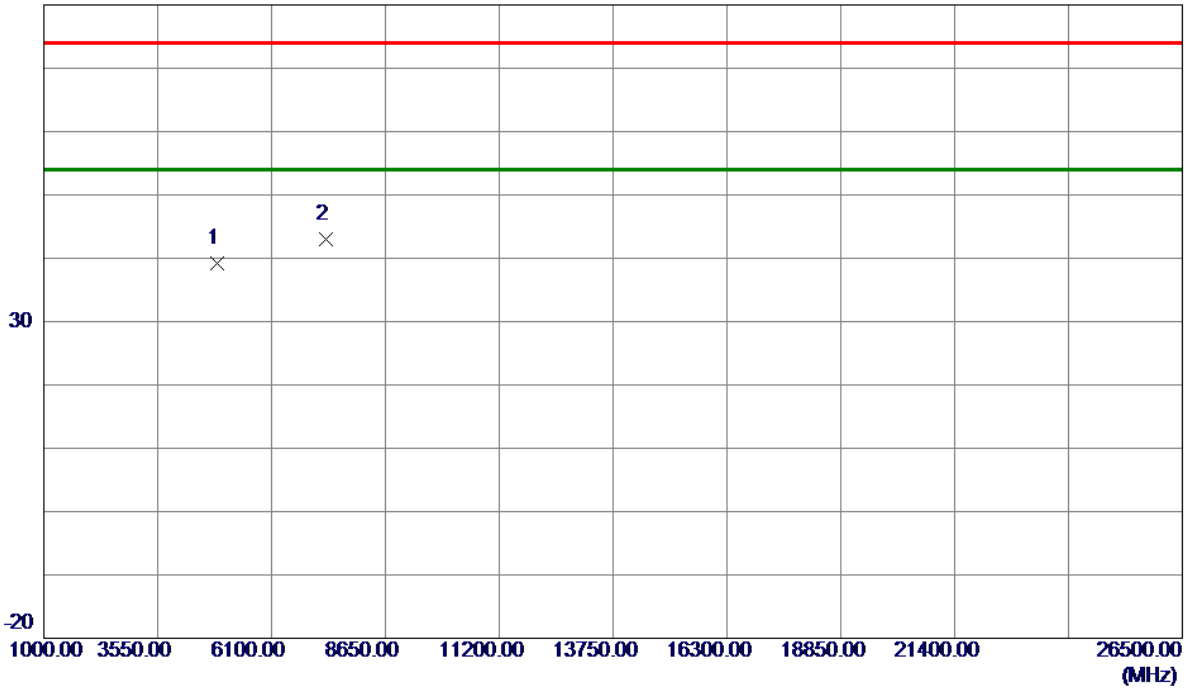
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.76	31.74	55.50	74.00	-18.50	Peak	
2	2390.0000	8.38	31.74	40.12	54.00	-13.88	AVG	
3	2437.9650	77.34	31.72	109.06	74.00	35.06	Peak	No limit
4 *	2437.9650	69.86	31.72	101.58	54.00	47.58	AVG	No limit
5	2483.5000	23.64	31.71	55.35	74.00	-18.65	Peak	
6	2483.5000	8.31	31.71	40.02	54.00	-13.98	AVG	

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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80 dBuV/m

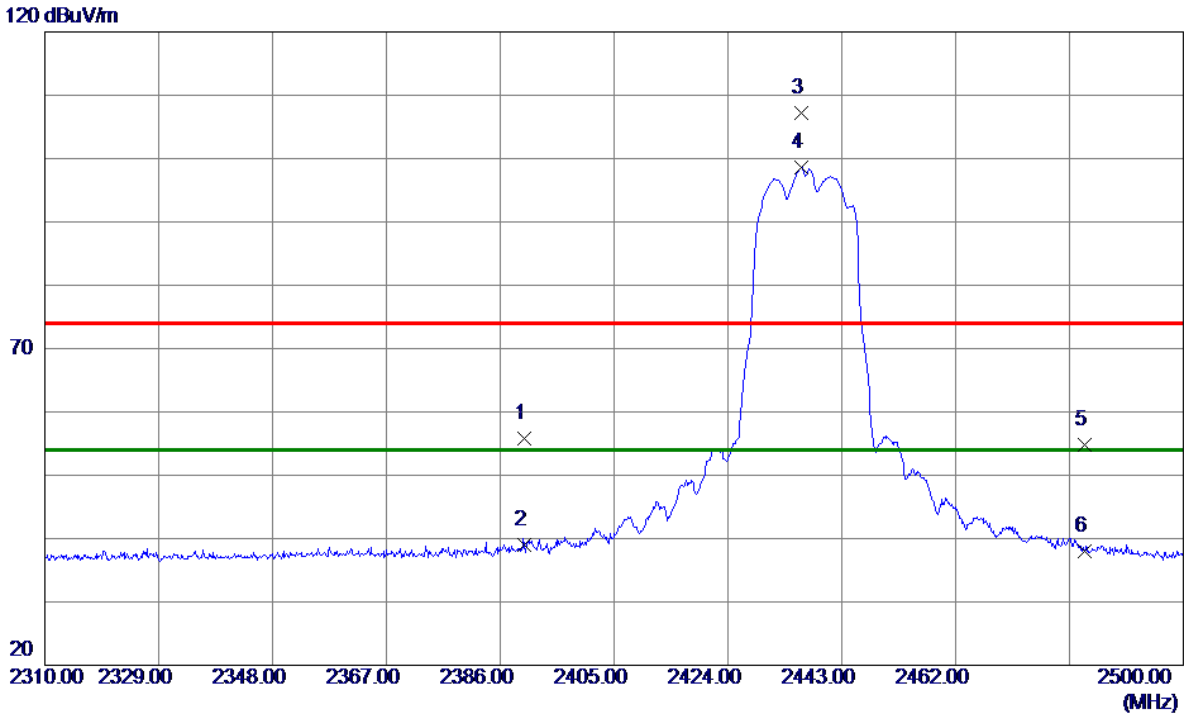


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	56.06	-16.91	39.15	74.00	-34.85	Peak	
2 *	7311.0000	55.90	-12.84	43.06	74.00	-30.94	Peak	

**REMARKS:**

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

Test Mode	TX G Mode 2437 MHz	Polarization	Horizontal
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.15	31.74	55.89	74.00	-18.11	Peak	
2	2390.0000	7.23	31.74	38.97	54.00	-15.03	AVG	
3	2436.1600	75.44	31.72	107.16	74.00	33.16	Peak	No limit
4 *	2436.1600	66.88	31.72	98.60	54.00	44.60	AVG	No limit
5	2483.5000	23.06	31.71	54.77	74.00	-19.23	Peak	
6	2483.5000	6.35	31.71	38.06	54.00	-15.94	AVG	

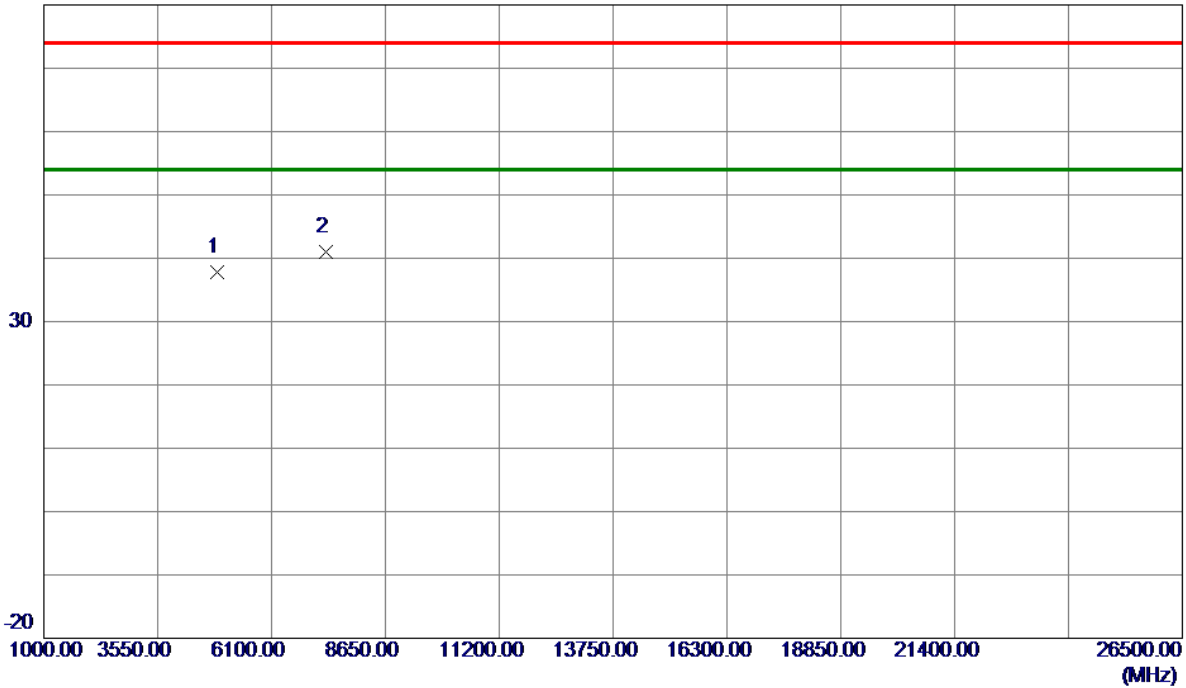
**REMARKS:**

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

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

Test Mode	TX G Mode 2437 MHz	Polarization	Horizontal
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80 dBuV/m

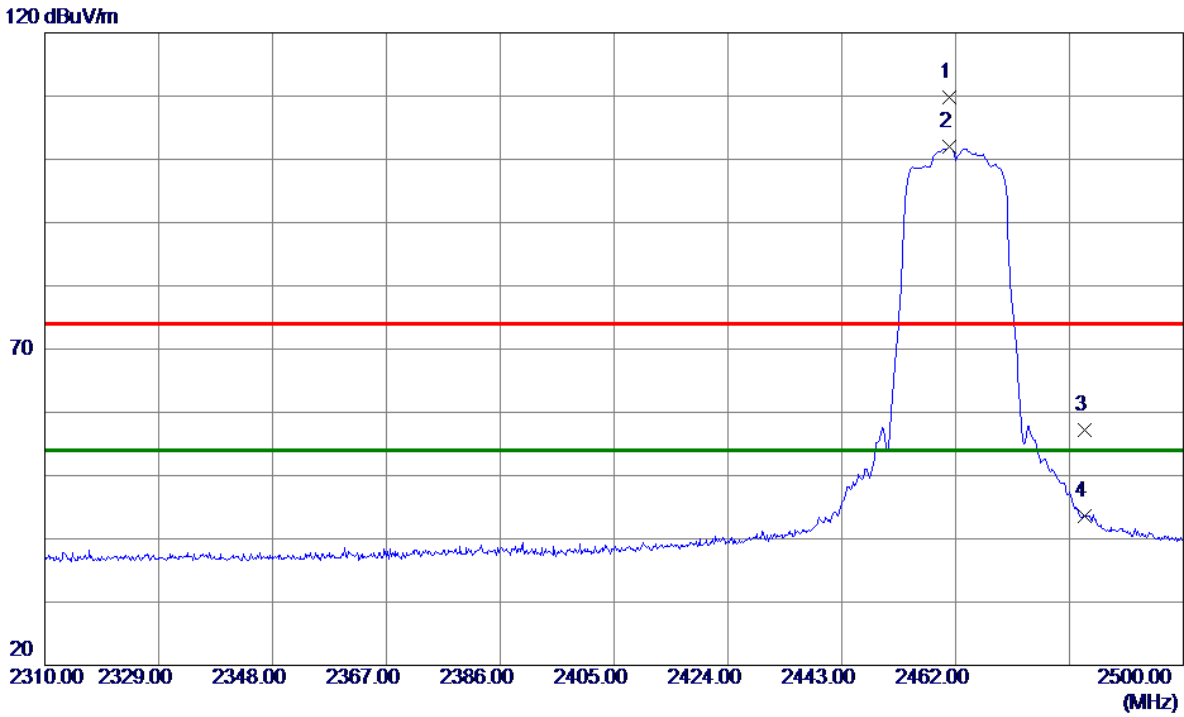


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	54.63	-16.91	37.72	74.00	-36.28	Peak	
2 *	7311.0000	53.87	-12.84	41.03	74.00	-32.97	Peak	

**REMARKS:**

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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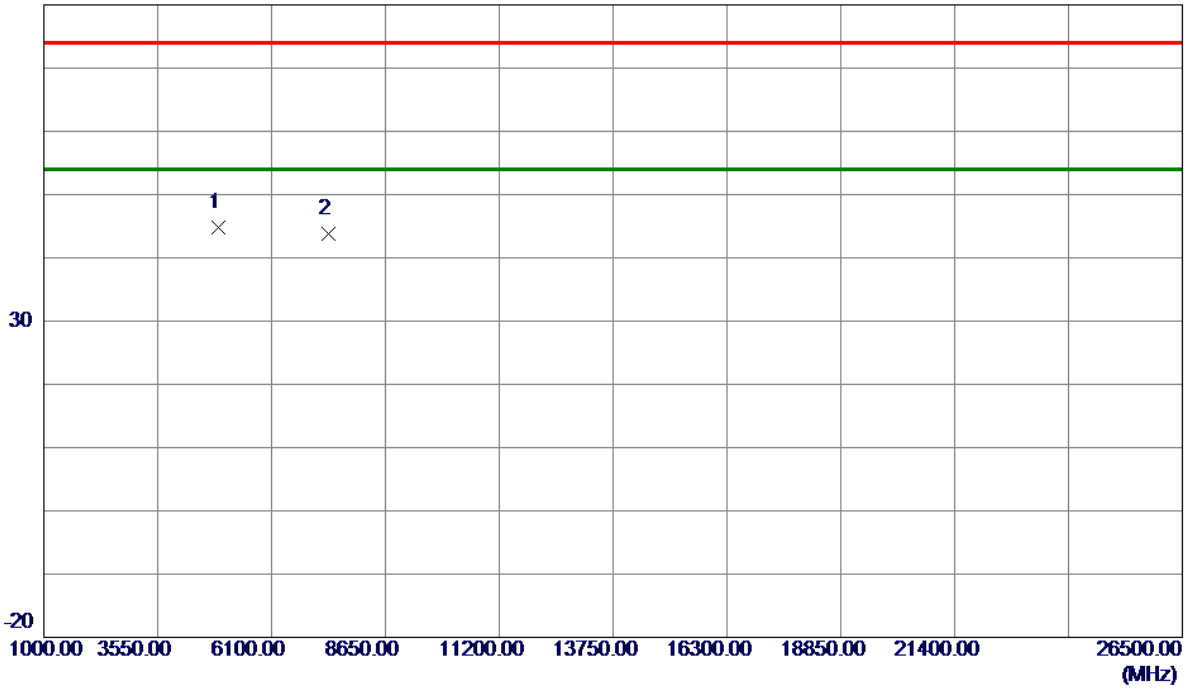
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2460.8600	78.11	31.71	109.82	74.00	35.82	Peak	No limit
2 *	2460.8600	70.21	31.71	101.92	54.00	47.92	AVG	No limit
3	2483.5000	25.46	31.71	57.17	74.00	-16.83	Peak	
4	2483.5000	11.81	31.71	43.52	54.00	-10.48	AVG	

**REMARKS:**

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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80 dBuV/m



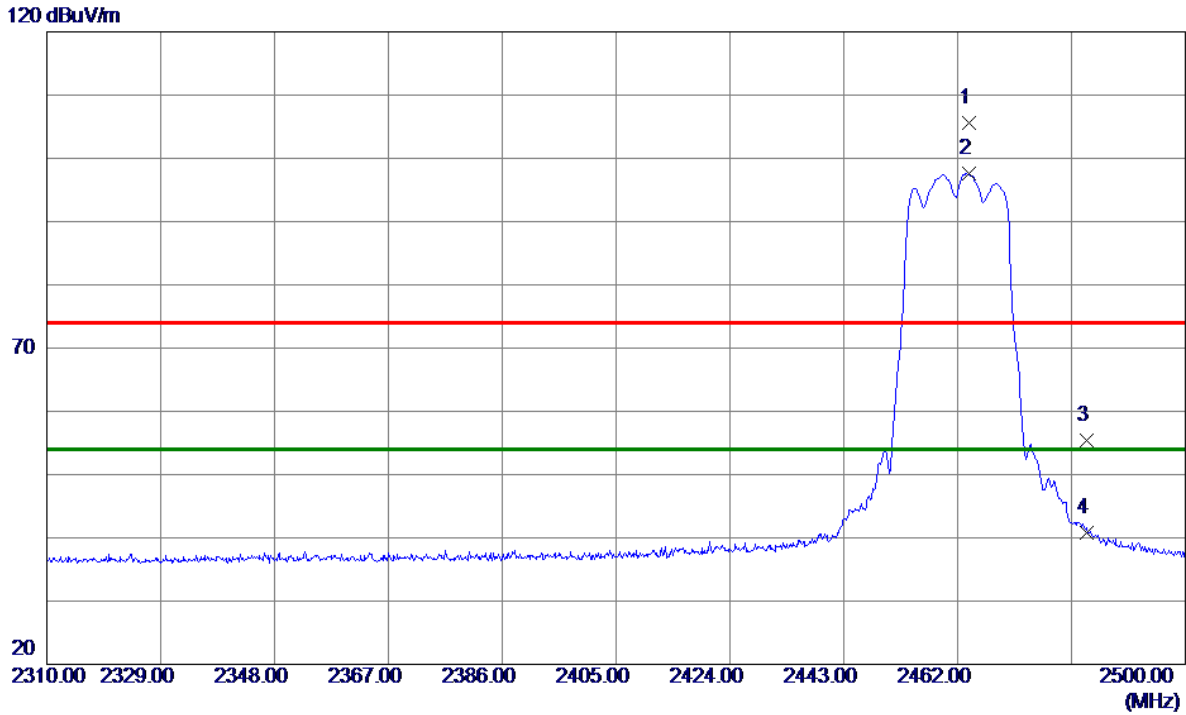
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.0000	61.53	-16.77	44.76	74.00	-29.24	Peak	
2	7386.0000	56.52	-12.79	43.73	74.00	-30.27	Peak	

**REMARKS:**

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



Test Mode	TX G Mode 2462 MHz	Polarization	Horizontal
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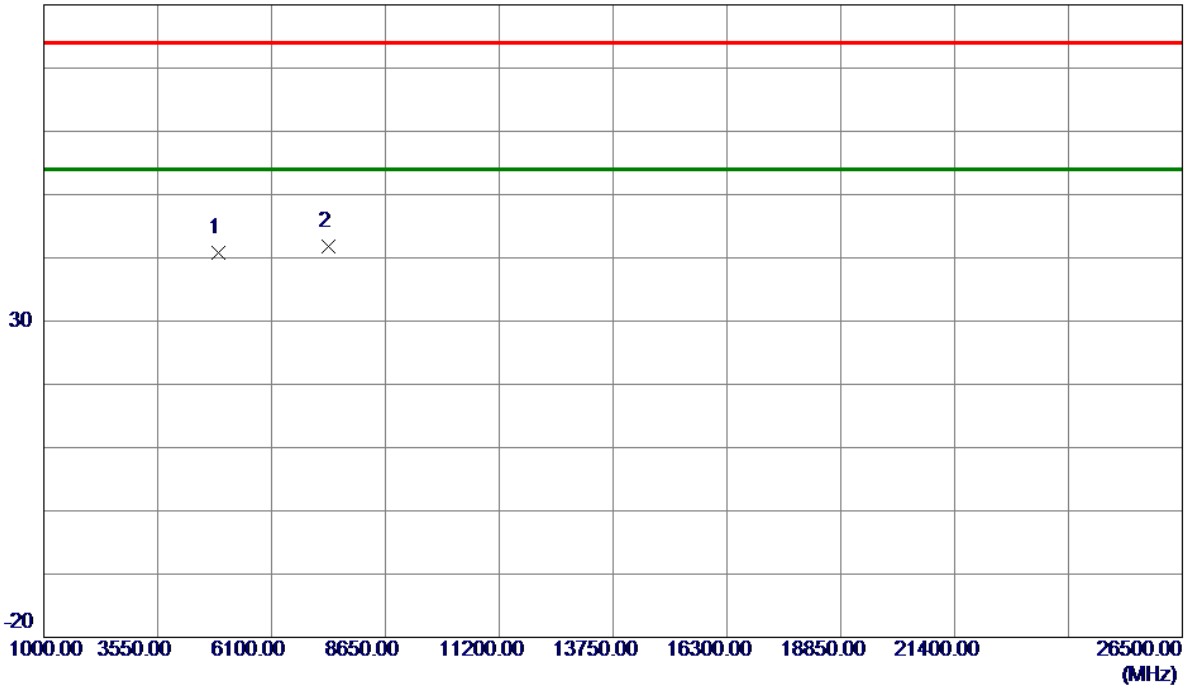
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2463.8050	73.98	31.71	105.69	74.00	31.69	Peak	No limit
2 *	2463.8050	65.81	31.71	97.52	54.00	43.52	AVG	No limit
3	2483.5000	23.70	31.71	55.41	74.00	-18.59	Peak	
4	2483.5000	9.15	31.71	40.86	54.00	-13.14	AVG	

**REMARKS:**

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

Test Mode	TX G Mode 2462 MHz	Polarization	Horizontal
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80 dBuV/m

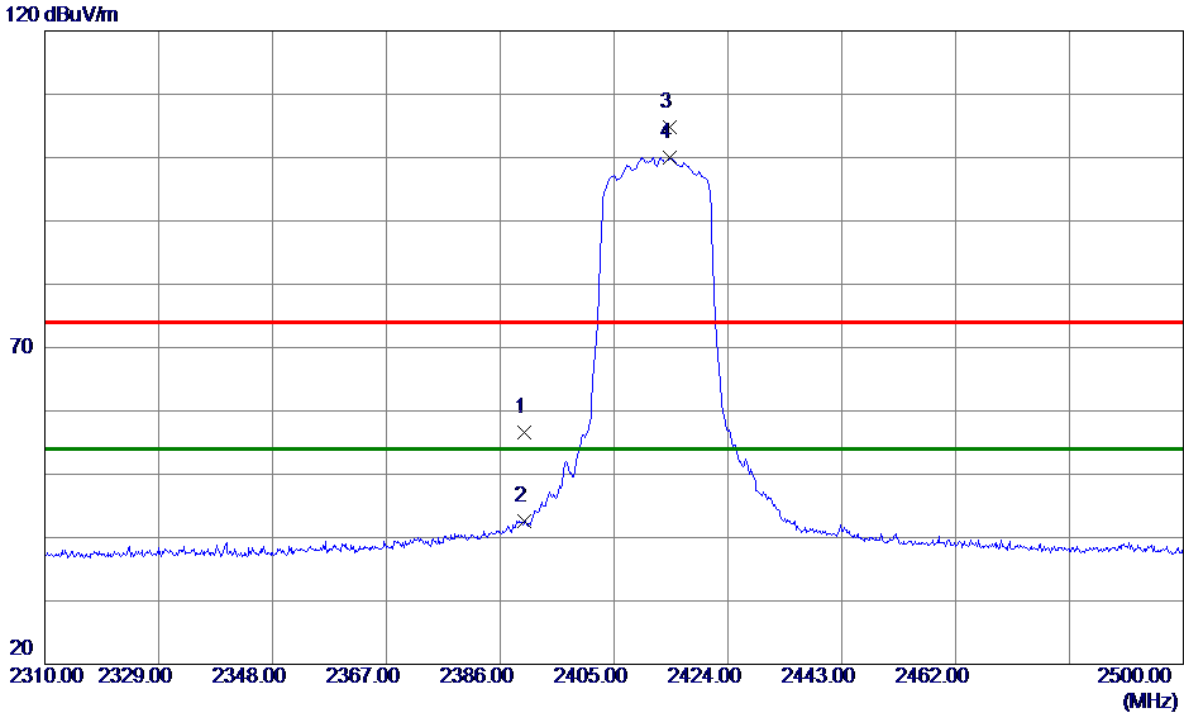


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	57.48	-16.77	40.71	74.00	-33.29	Peak	
2 *	7386.0000	54.56	-12.79	41.77	74.00	-32.23	Peak	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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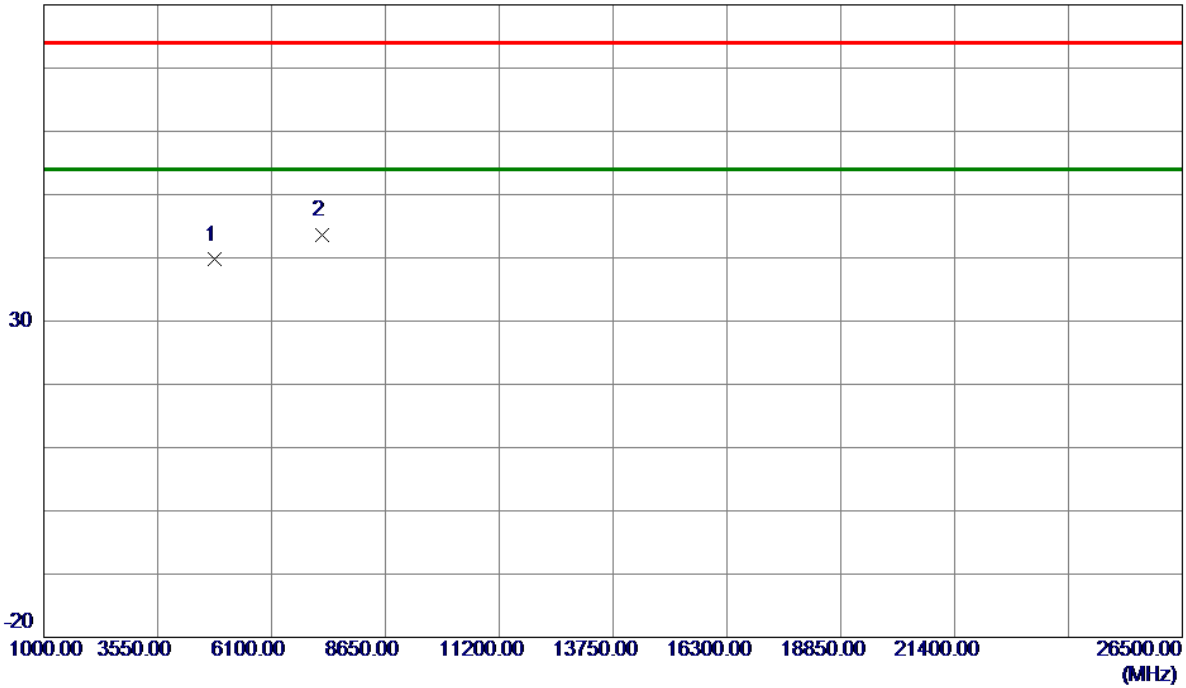
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.88	31.74	56.62	74.00	-17.38	Peak	
2	2390.0000	10.92	31.74	42.66	54.00	-11.34	AVG	
3	2414.2150	73.16	31.72	104.88	74.00	30.88	Peak	No limit
4 *	2414.2150	68.27	31.72	99.99	54.00	45.99	AVG	No limit

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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80 dBuV/m

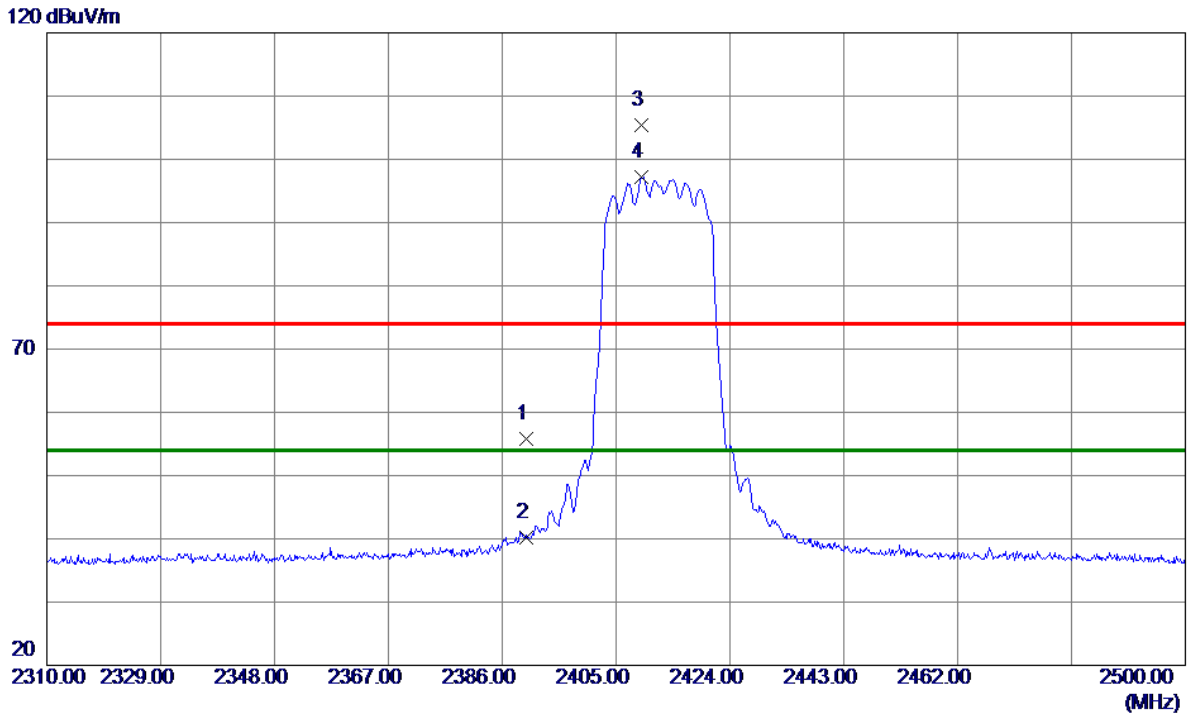


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	56.68	-16.98	39.70	74.00	-34.30	Peak	
2 *	7236.0000	56.46	-12.89	43.57	74.00	-30.43	Peak	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Horizontal
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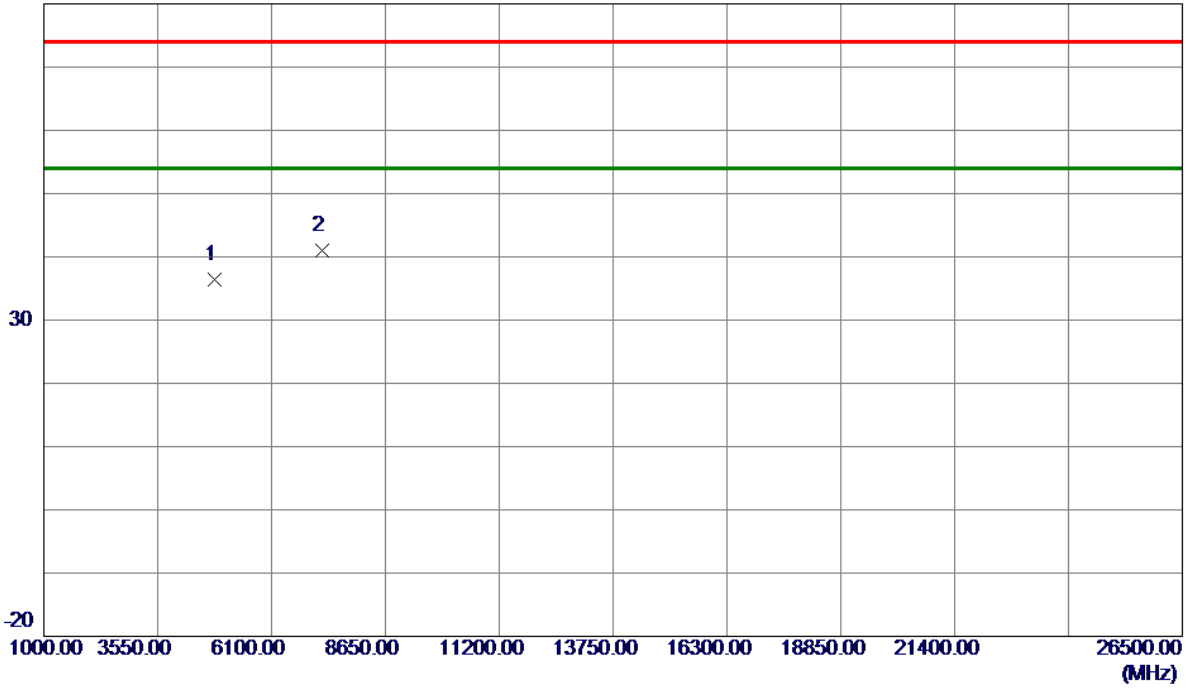
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.02	31.74	55.76	74.00	-18.24	Peak	
2	2390.0000	8.49	31.74	40.23	54.00	-13.77	AVG	
3	2409.2750	73.59	31.72	105.31	74.00	31.31	Peak	No limit
4 *	2409.2750	65.39	31.72	97.11	54.00	43.11	AVG	No limit

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Horizontal
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80 dBuV/m

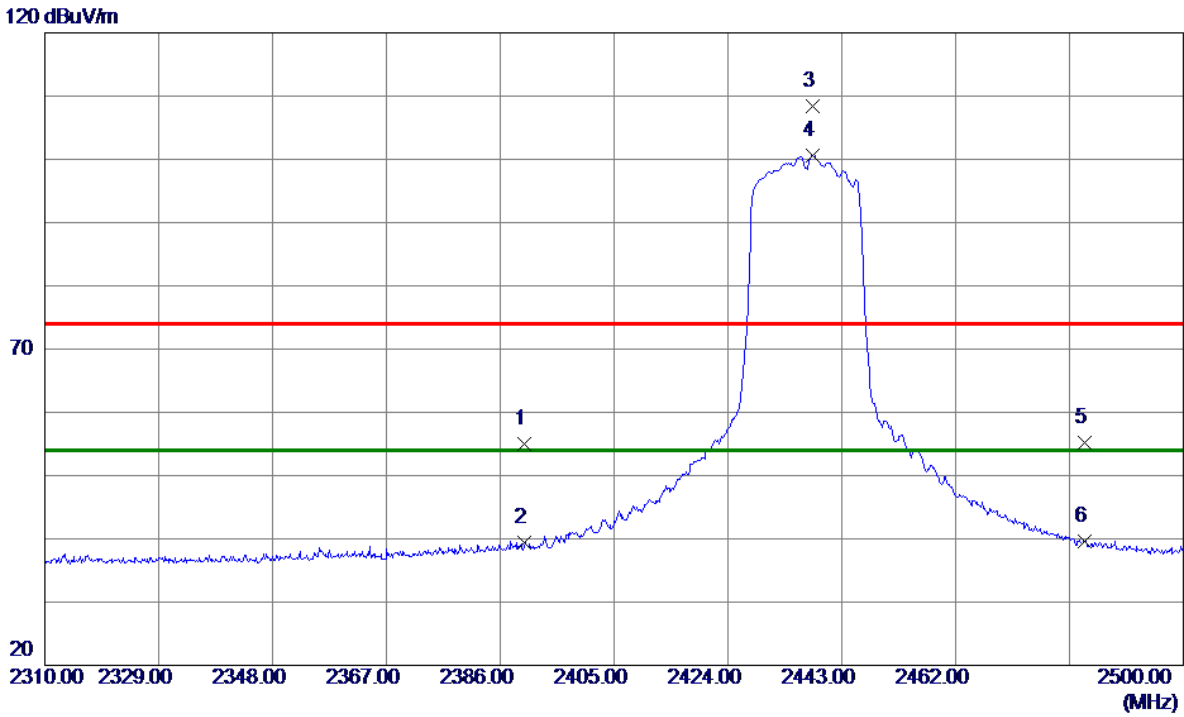


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	53.41	-16.98	36.43	74.00	-37.57	Peak	
2 *	7236.0000	53.91	-12.89	41.02	74.00	-32.98	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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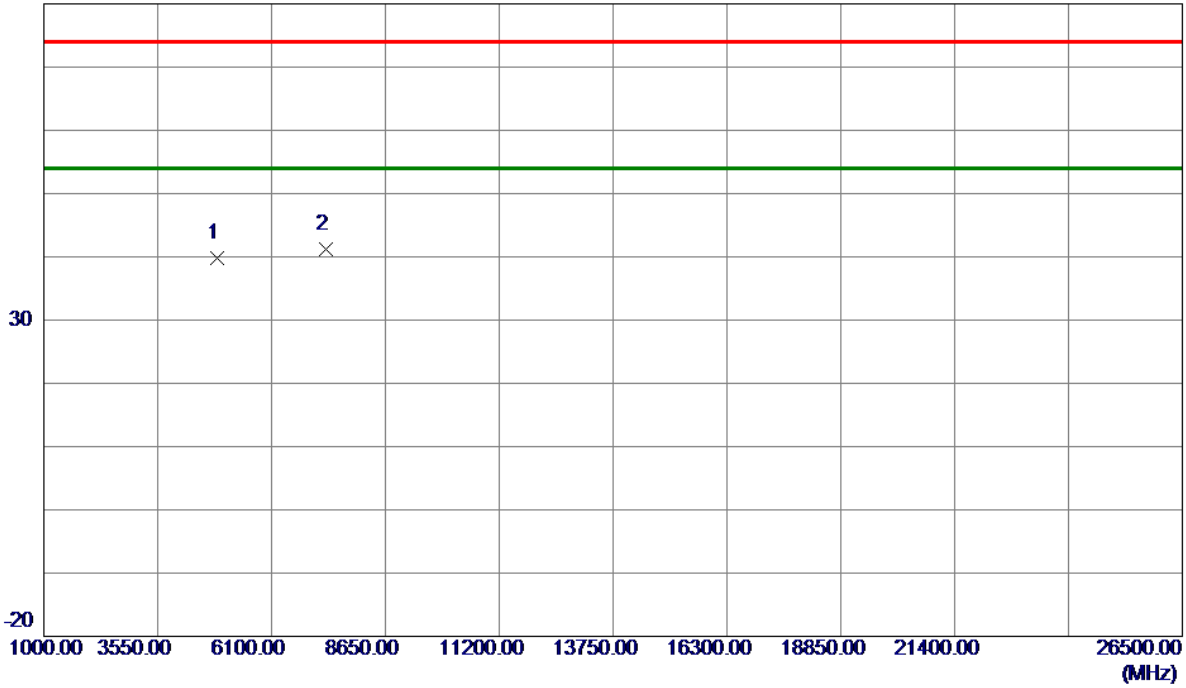
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.20	31.74	54.94	74.00	-19.06	Peak	
2	2390.0000	7.66	31.74	39.40	54.00	-14.60	AVG	
3	2438.0600	76.75	31.72	108.47	74.00	34.47	Peak	No limit
4 *	2438.0600	68.97	31.72	100.69	54.00	46.69	AVG	No limit
5	2483.5000	23.43	31.71	55.14	74.00	-18.86	Peak	
6	2483.5000	7.84	31.71	39.55	54.00	-14.45	AVG	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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80 dBuV/m



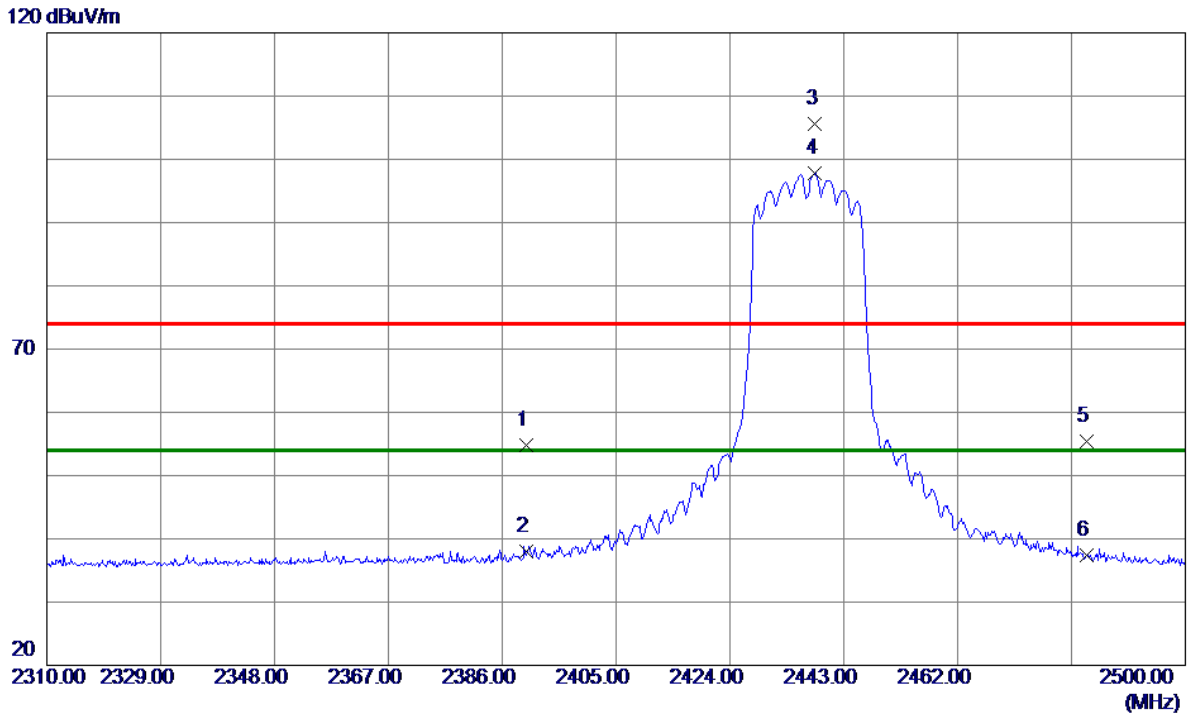
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	56.65	-16.91	39.74	74.00	-34.26	Peak	
2 *	7311.0000	54.07	-12.84	41.23	74.00	-32.77	Peak	

**REMARKS:**

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



Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Horizontal
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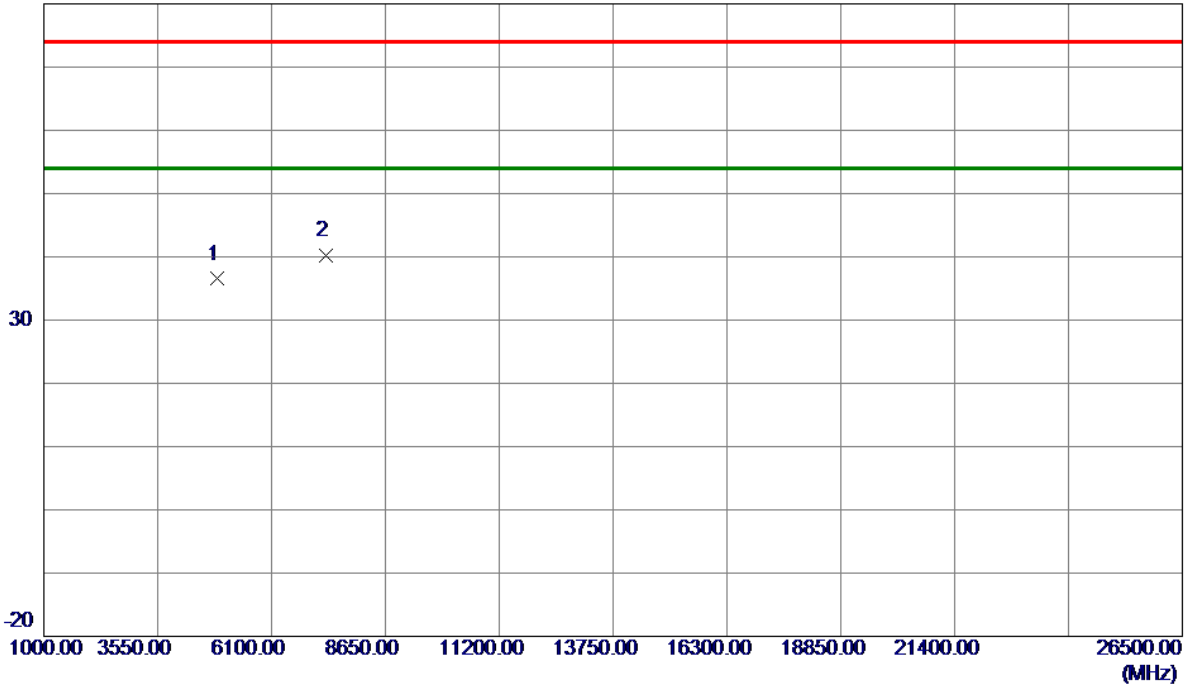
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.05	31.74	54.79	74.00	-19.21	Peak	
2	2390.0000	6.30	31.74	38.04	54.00	-15.96	AVG	
3	2438.2500	73.87	31.72	105.59	74.00	31.59	Peak	No limit
4 *	2438.2500	66.00	31.72	97.72	54.00	43.72	AVG	No limit
5	2483.5000	23.72	31.71	55.43	74.00	-18.57	Peak	
6	2483.5000	5.70	31.71	37.41	54.00	-16.59	AVG	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Horizontal
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80 dBuV/m

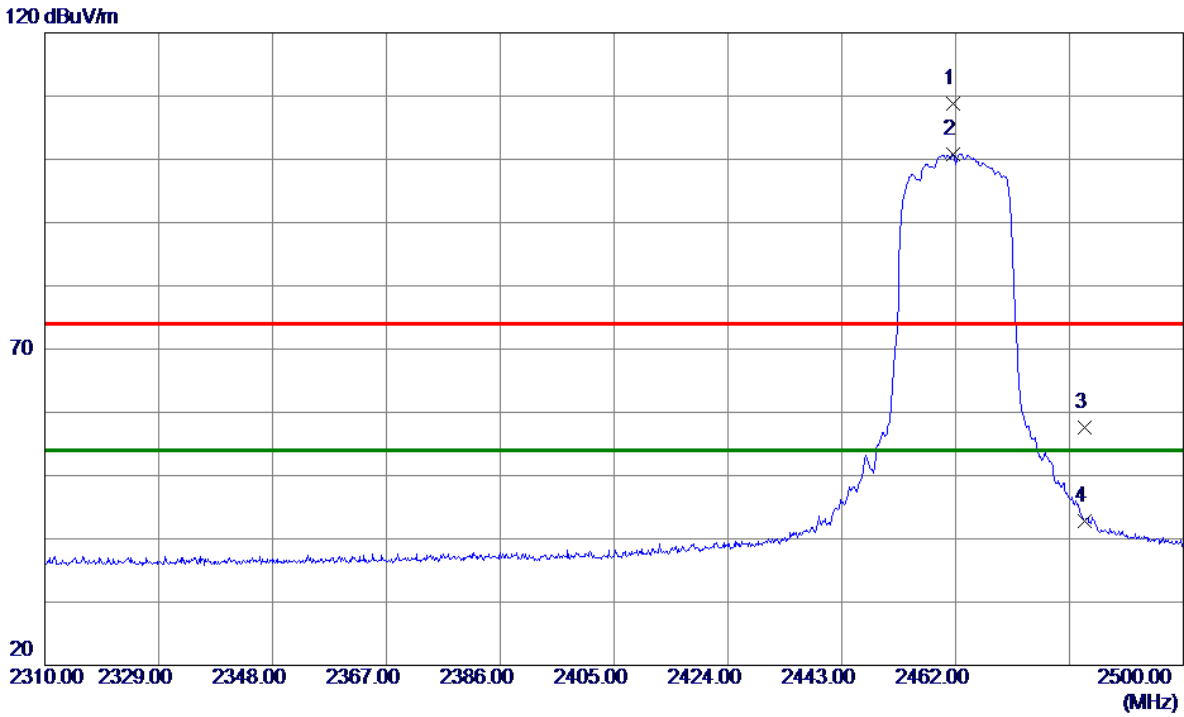


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	53.41	-16.91	36.50	74.00	-37.50	Peak	
2 *	7311.0000	53.03	-12.84	40.19	74.00	-33.81	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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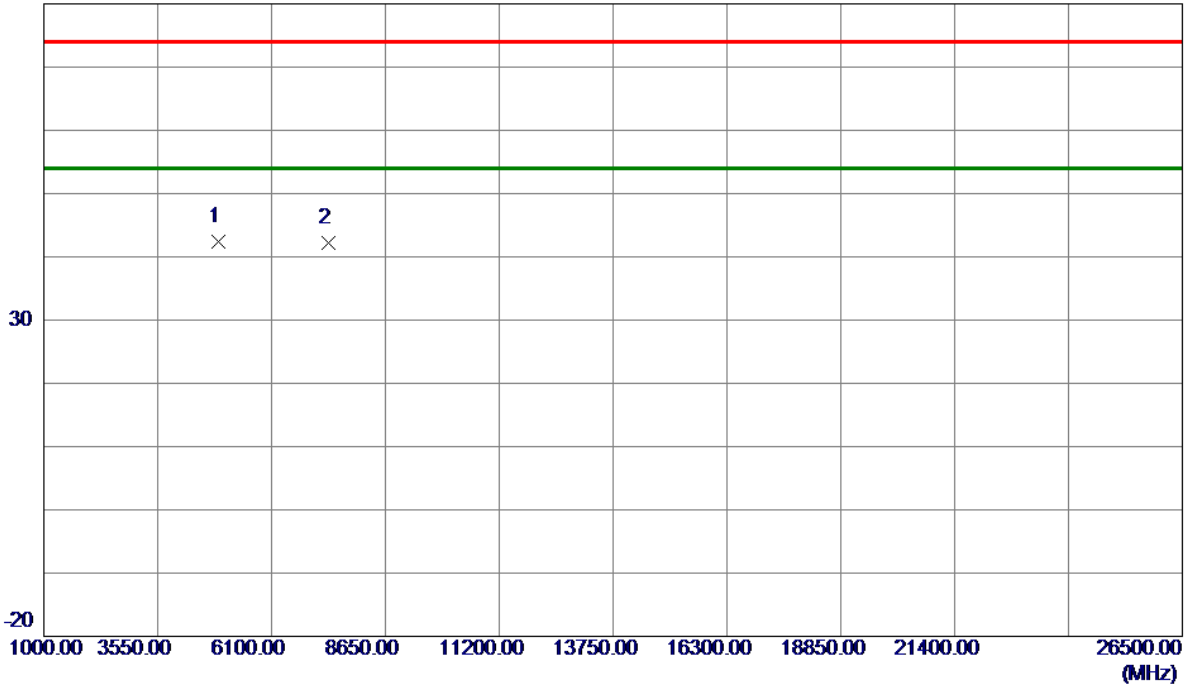
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.5250	77.16	31.71	108.87	74.00	34.87	Peak	No limit
2 *	2461.5250	69.14	31.71	100.85	54.00	46.85	AVG	No limit
3	2483.5000	25.85	31.71	57.56	74.00	-16.44	Peak	
4	2483.5000	11.05	31.71	42.76	54.00	-11.24	AVG	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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80 dBuV/m

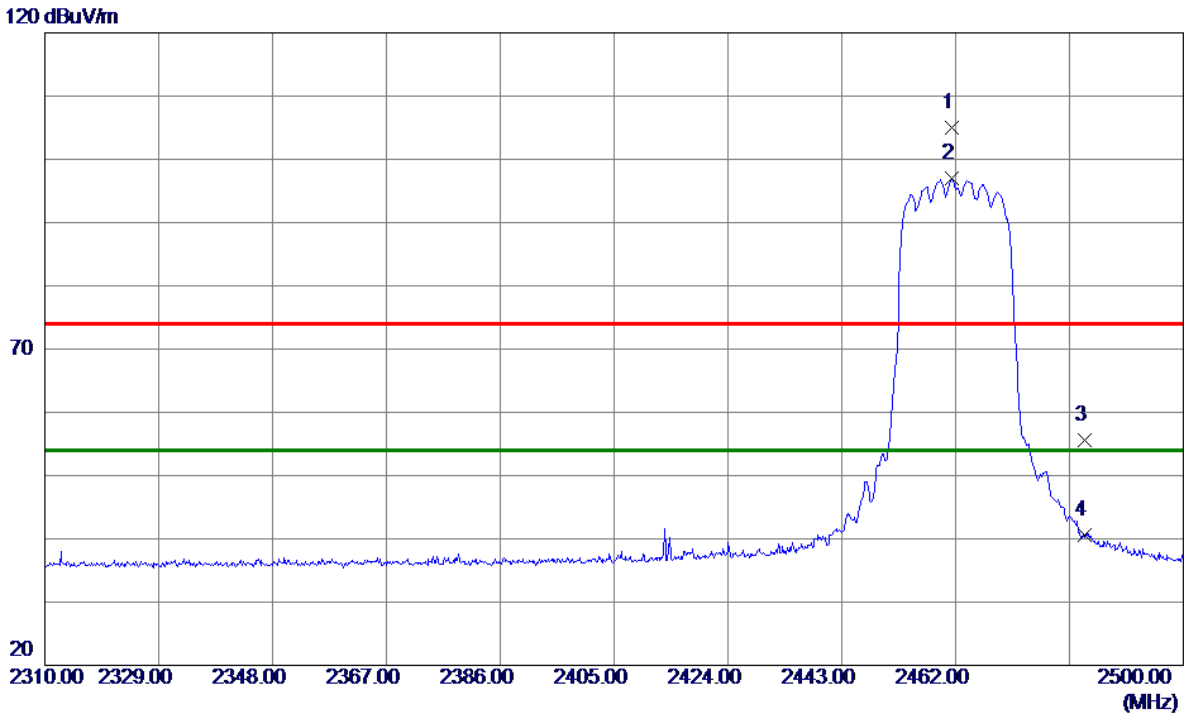


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.0000	59.17	-16.77	42.40	74.00	-31.60	Peak	
2	7386.0000	55.01	-12.79	42.22	74.00	-31.78	Peak	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Horizontal
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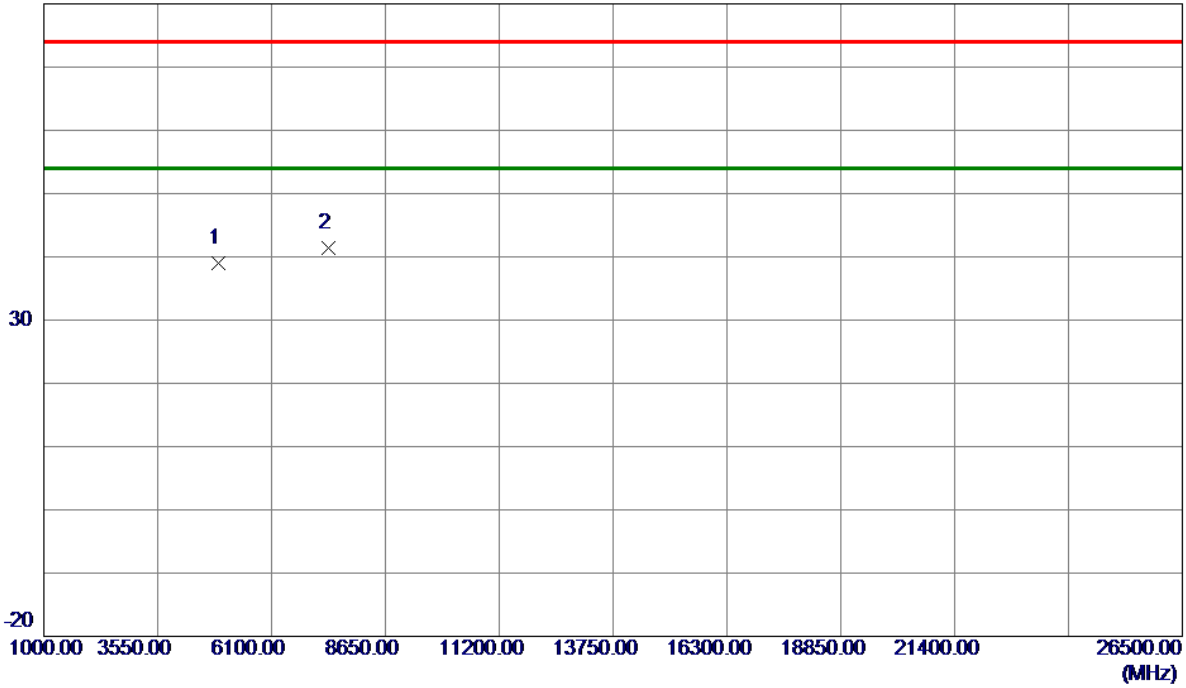
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.4300	73.35	31.71	105.06	74.00	31.06	Peak	No limit
2 *	2461.4300	65.20	31.71	96.91	54.00	42.91	AVG	No limit
3	2483.5000	23.94	31.71	55.65	74.00	-18.35	Peak	
4	2483.5000	8.91	31.71	40.62	54.00	-13.38	AVG	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Horizontal
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80 dBuV/m

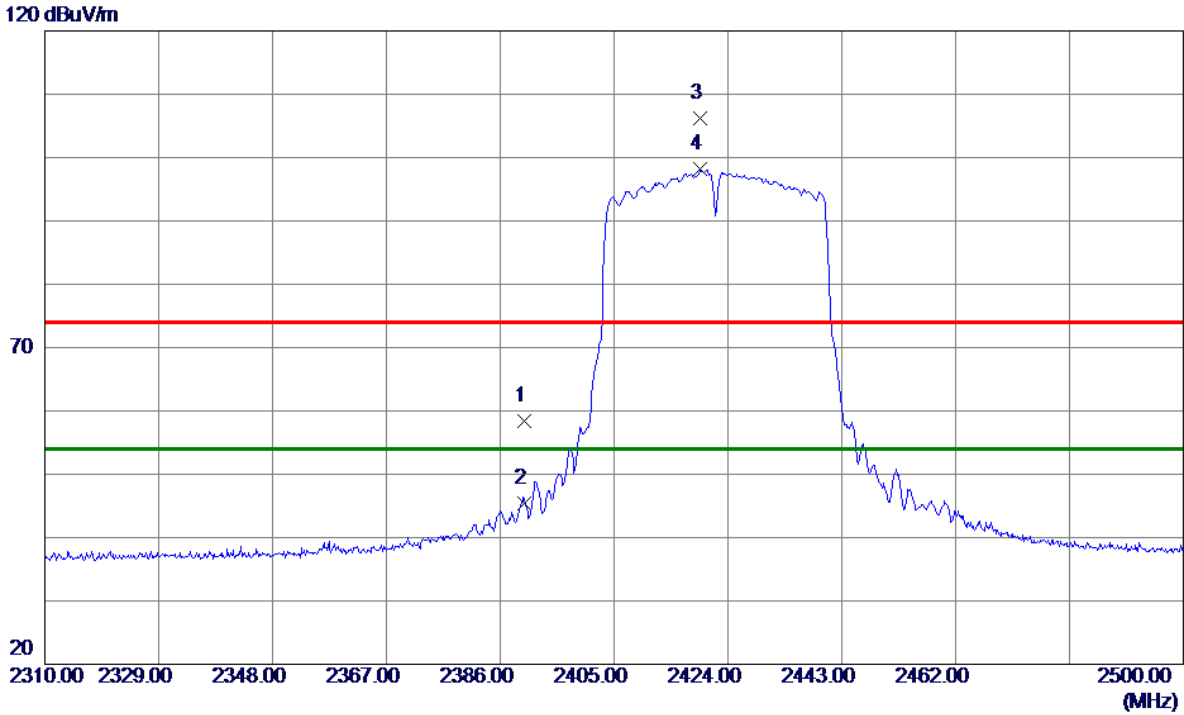


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	55.80	-16.77	39.03	74.00	-34.97	Peak	
2 *	7386.0000	54.18	-12.79	41.39	74.00	-32.61	Peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical
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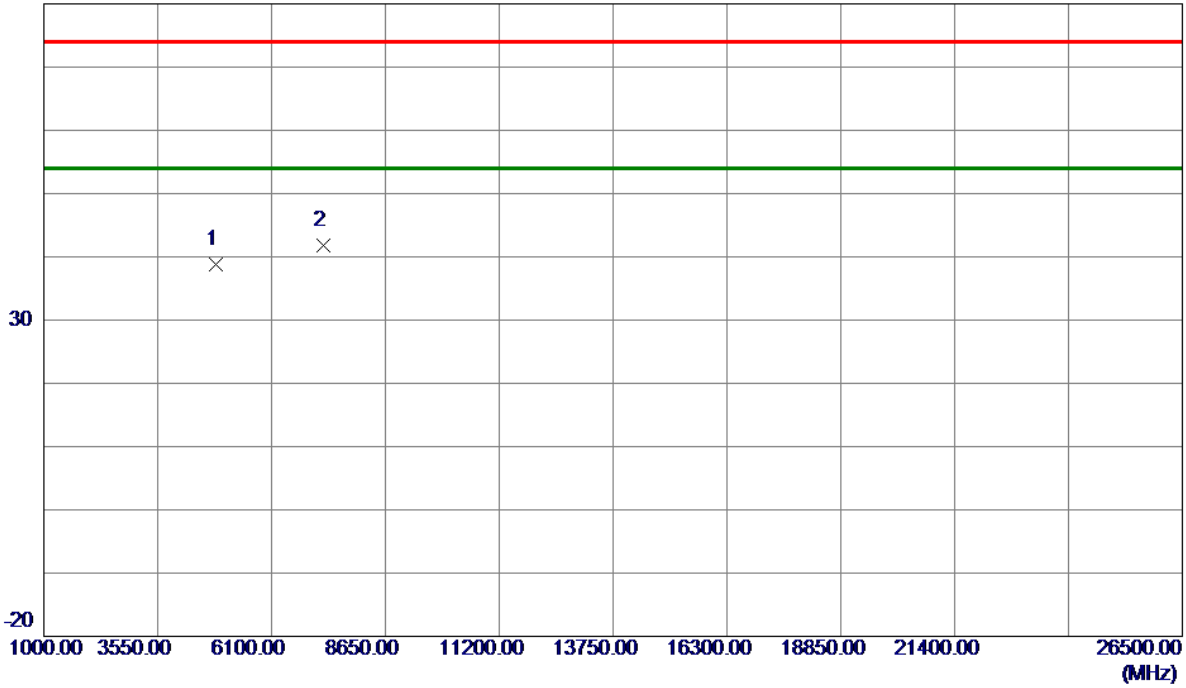
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	26.74	31.74	58.48	74.00	-15.52	Peak	
2	2390.0000	13.66	31.74	45.40	54.00	-8.60	AVG	
3	2419.3450	74.43	31.72	106.15	74.00	32.15	Peak	No limit
4 *	2419.3450	66.44	31.72	98.16	54.00	44.16	AVG	No limit

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical
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80 dBuV/m



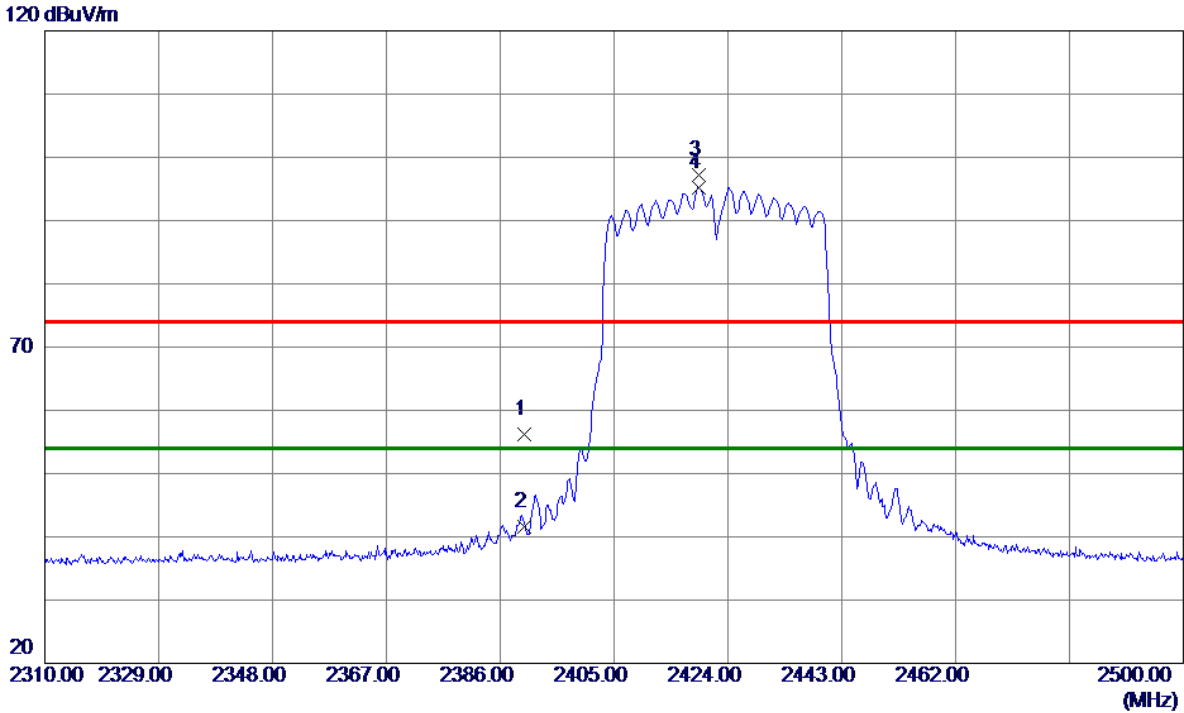
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.0000	55.66	-16.95	38.71	74.00	-35.29	Peak	
2 *	7266.0000	54.70	-12.87	41.83	74.00	-32.17	Peak	

**REMARKS:**

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



Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Horizontal
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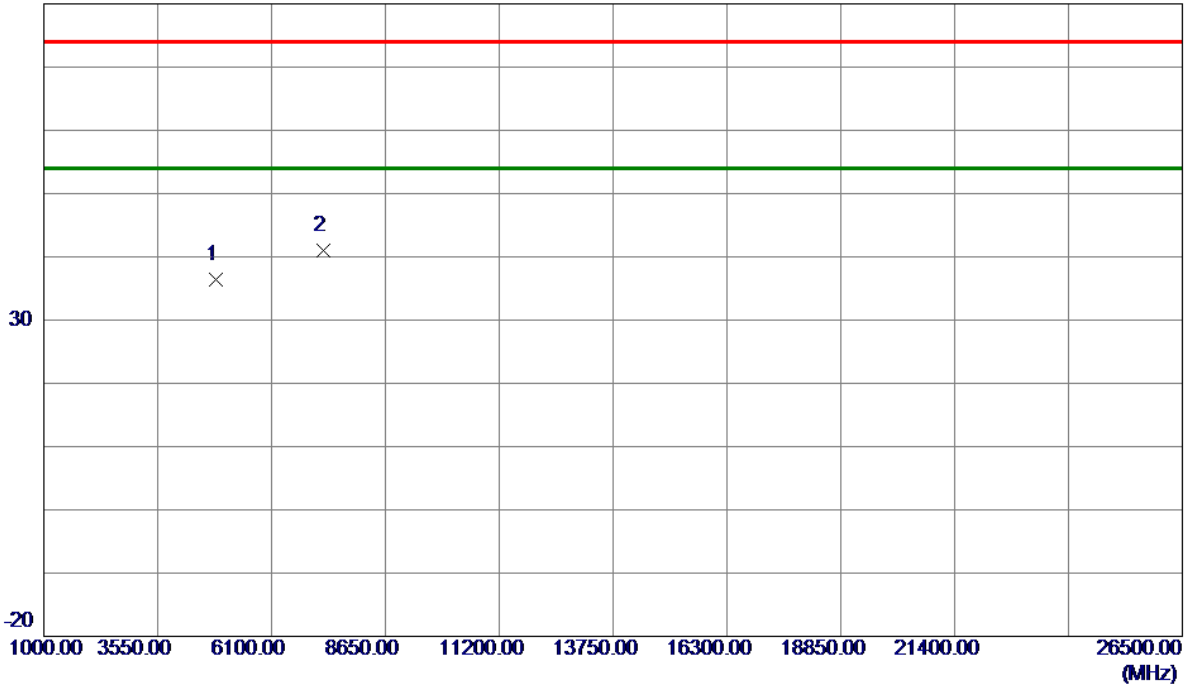
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.48	31.74	56.22	74.00	-17.78	Peak	
2	2390.0000	9.93	31.74	41.67	54.00	-12.33	AVG	
3	2419.1550	65.40	31.72	97.12	74.00	23.12	Peak	No limit
4 *	2419.1550	63.53	31.72	95.25	54.00	41.25	AVG	No limit

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Horizontal
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80 dBuV/m

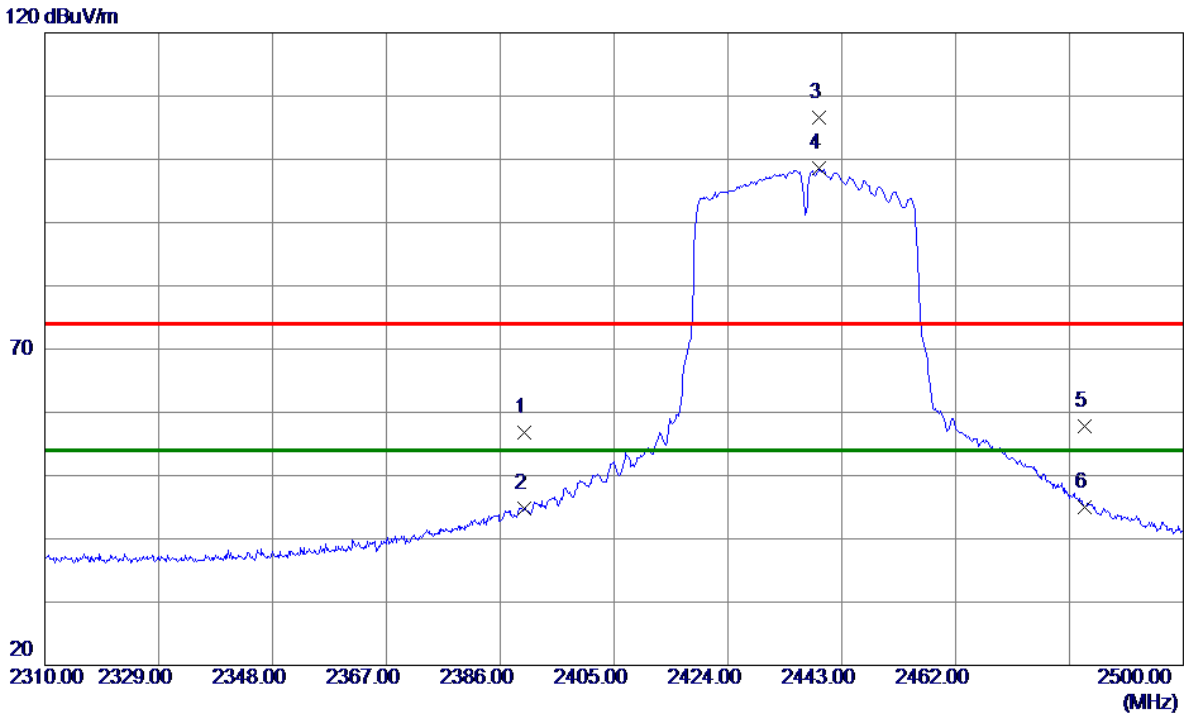


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.0000	53.36	-16.95	36.41	74.00	-37.59	Peak	
2 *	7266.0000	53.83	-12.87	40.96	74.00	-33.04	Peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical
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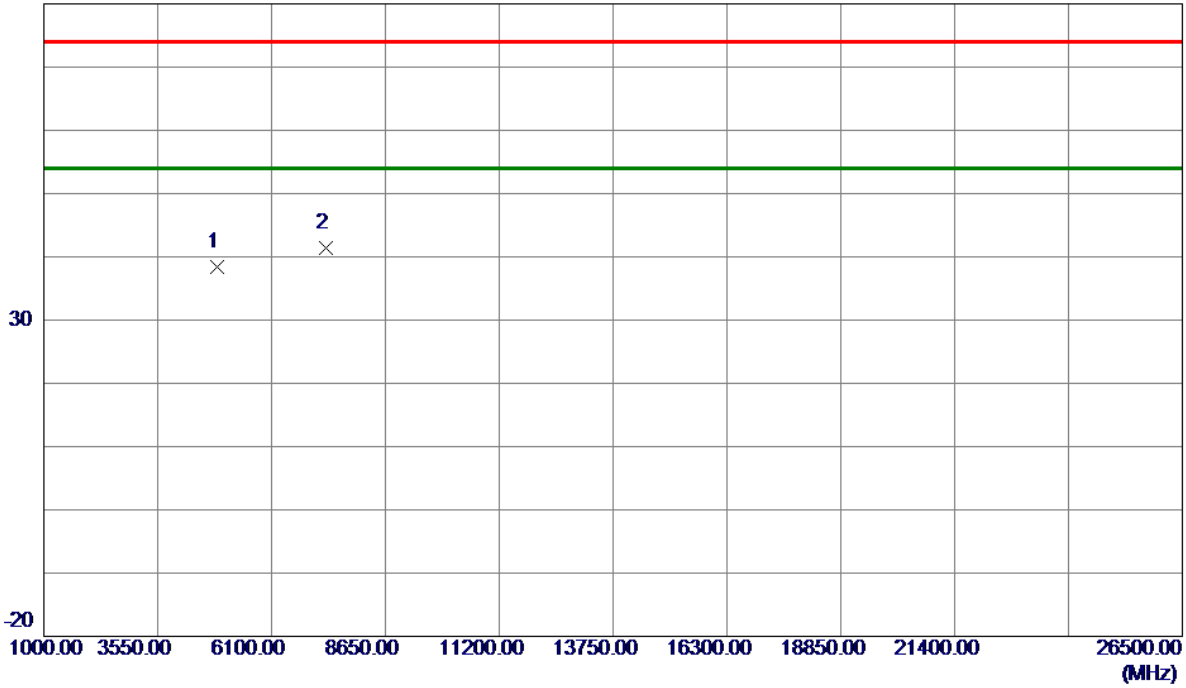
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	25.04	31.74	56.78	74.00	-17.22	Peak	
2	2390.0000	13.04	31.74	44.78	54.00	-9.22	AVG	
3	2439.2950	74.90	31.72	106.62	74.00	32.62	Peak	No limit
4 *	2439.2950	66.87	31.72	98.59	54.00	44.59	AVG	No limit
5	2483.5000	26.17	31.71	57.88	74.00	-16.12	Peak	
6	2483.5000	13.35	31.71	45.06	54.00	-8.94	AVG	

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical
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80 dBuV/m

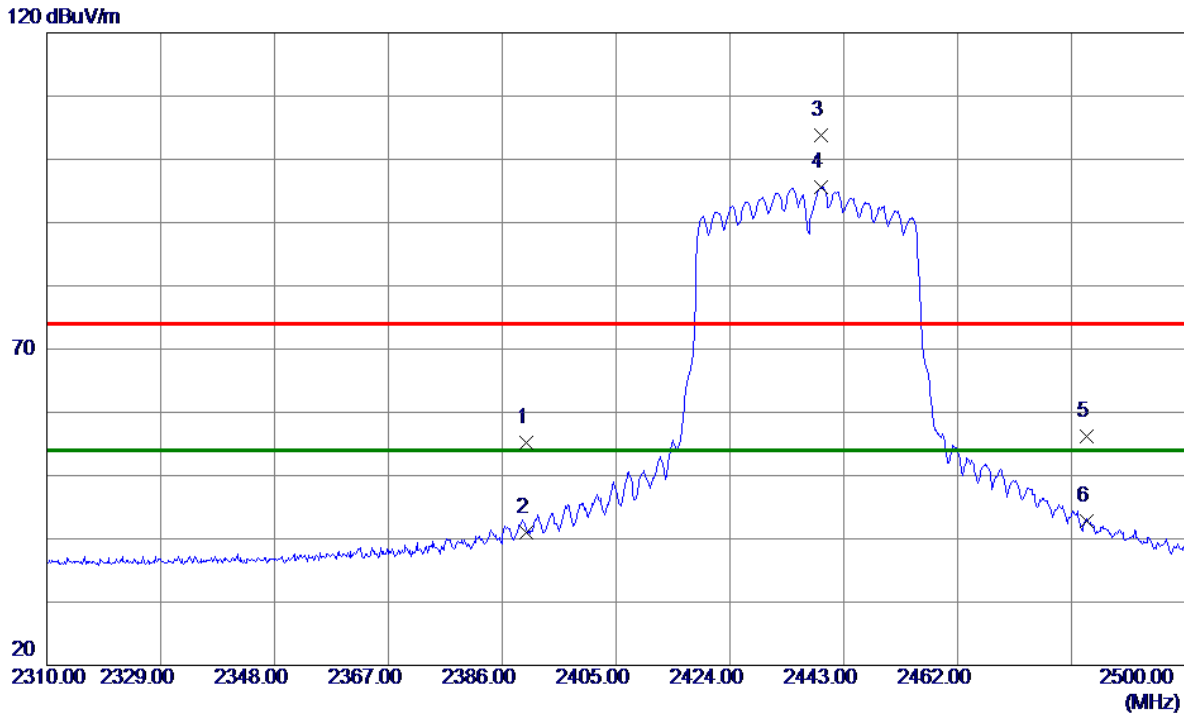


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	55.29	-16.91	38.38	74.00	-35.62	Peak	
2 *	7311.0000	54.21	-12.84	41.37	74.00	-32.63	Peak	

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Horizontal
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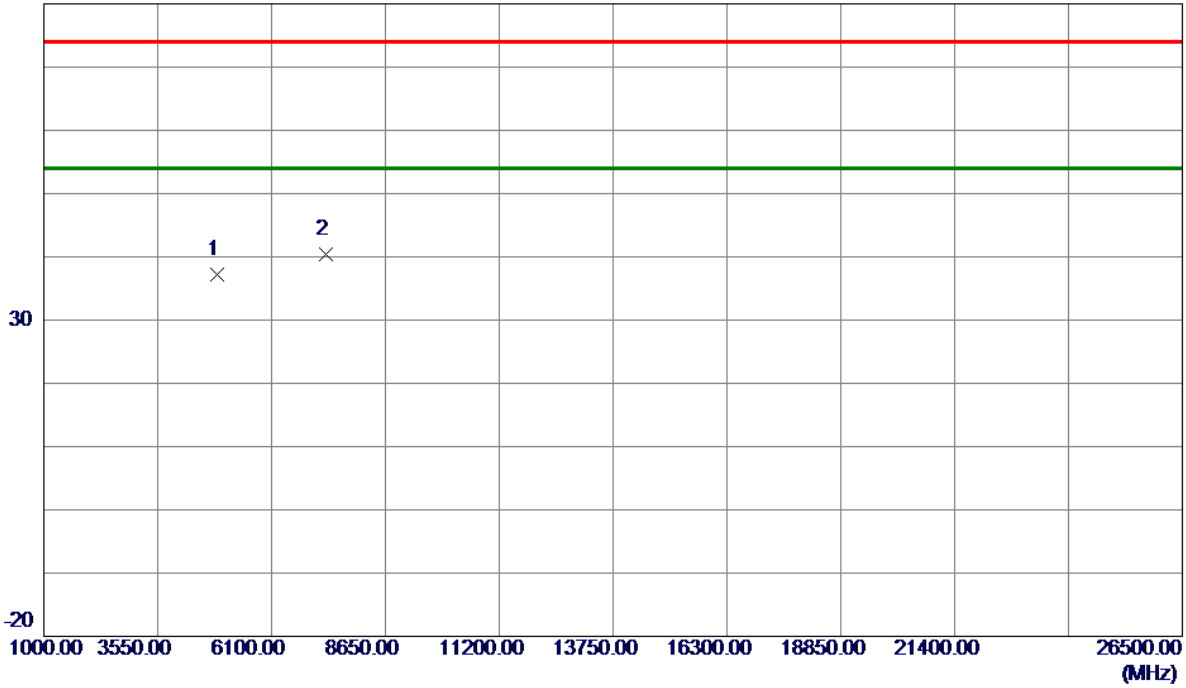
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.48	31.74	55.22	74.00	-18.78	Peak	
2	2390.0000	9.27	31.74	41.01	54.00	-12.99	AVG	
3	2439.1050	72.14	31.72	103.86	74.00	29.86	Peak	No limit
4 *	2439.1050	63.81	31.72	95.53	54.00	41.53	AVG	No limit
5	2483.5000	24.58	31.71	56.29	74.00	-17.71	Peak	
6	2483.5000	11.17	31.71	42.88	54.00	-11.12	AVG	

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Horizontal
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80 dBuV/m

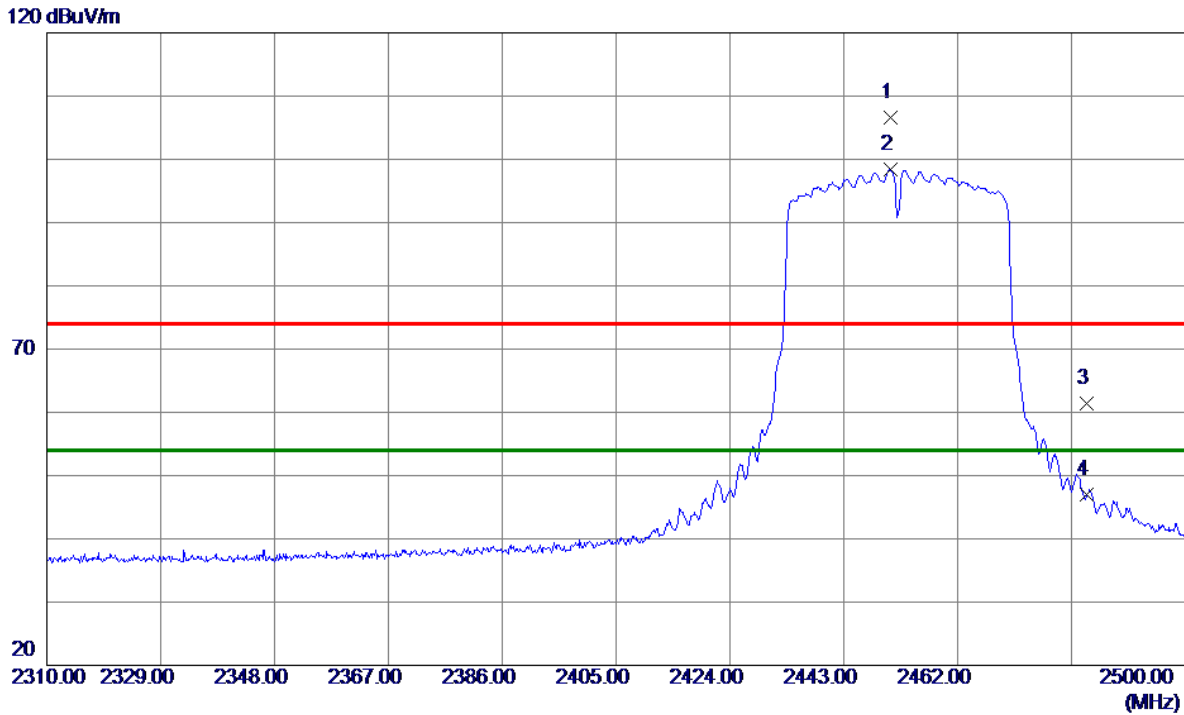


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	54.06	-16.91	37.15	74.00	-36.85	Peak	
2 *	7311.0000	53.21	-12.84	40.37	74.00	-33.63	Peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical
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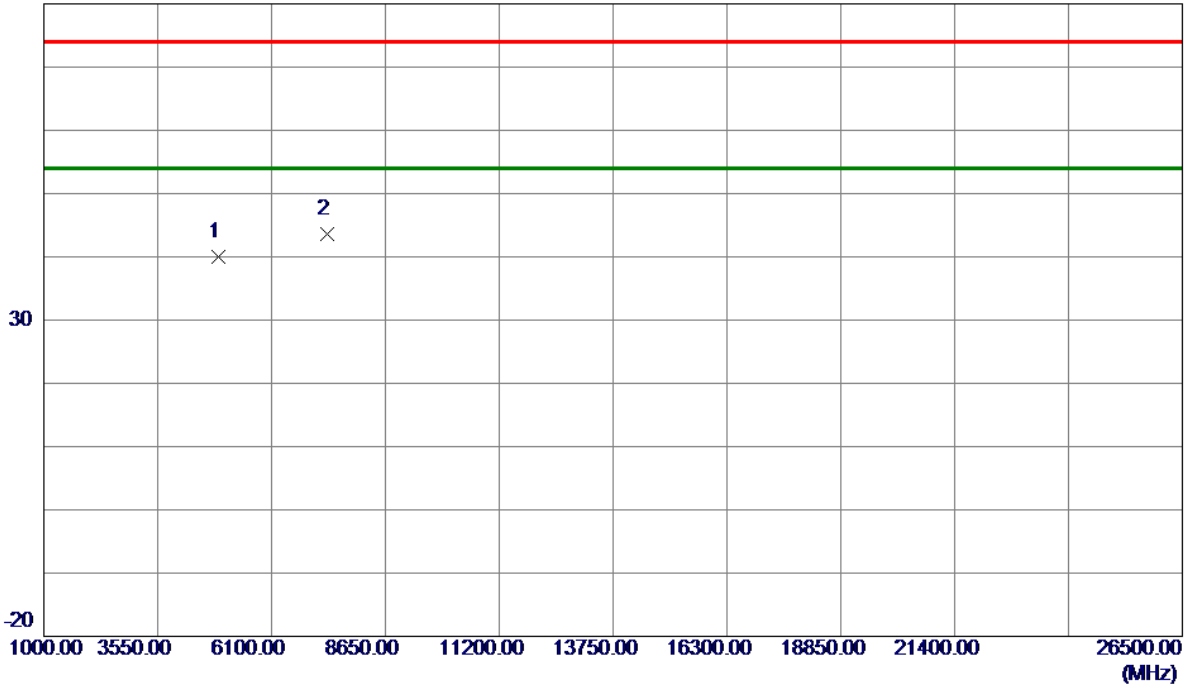
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2450.7900	74.82	31.71	106.53	74.00	32.53	Peak	No limit
2 *	2450.7900	66.67	31.71	98.38	54.00	44.38	AVG	No limit
3	2483.5000	29.73	31.71	61.44	74.00	-12.56	Peak	
4	2483.5000	15.21	31.71	46.92	54.00	-7.08	AVG	

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical
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80 dBuV/m



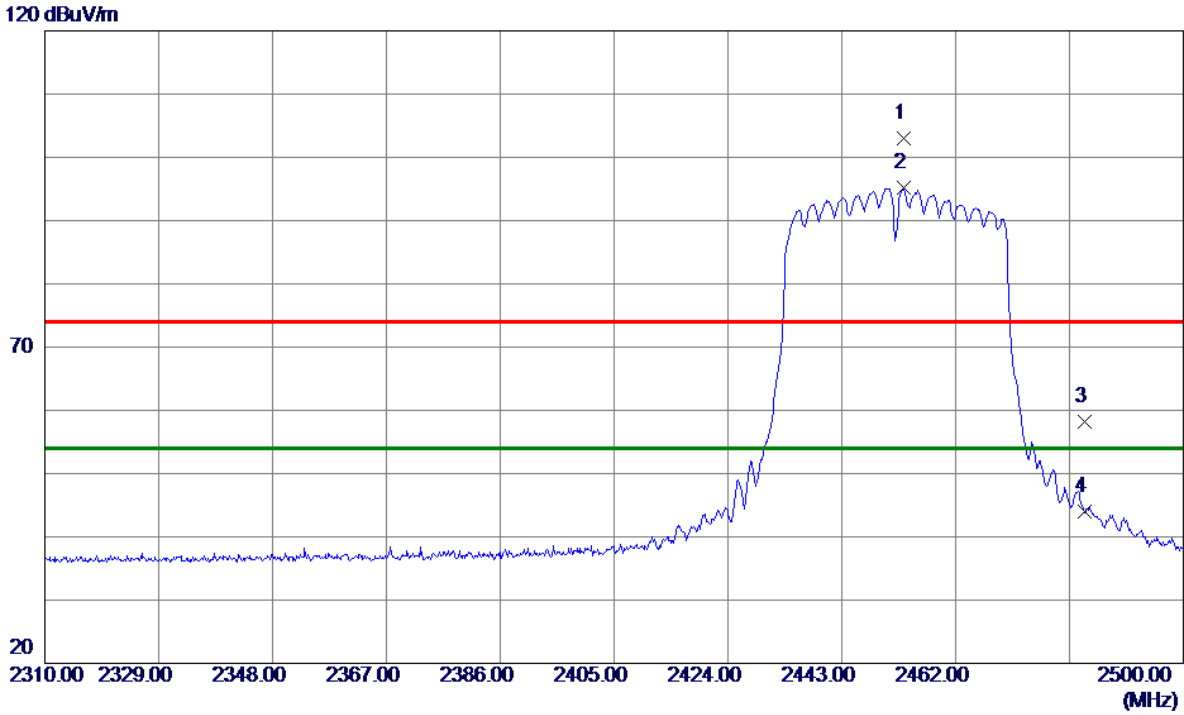
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.0000	56.83	-16.85	39.98	74.00	-34.02	Peak	
2 *	7356.0000	56.43	-12.81	43.62	74.00	-30.38	Peak	

**REMARKS:**

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



Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Horizontal
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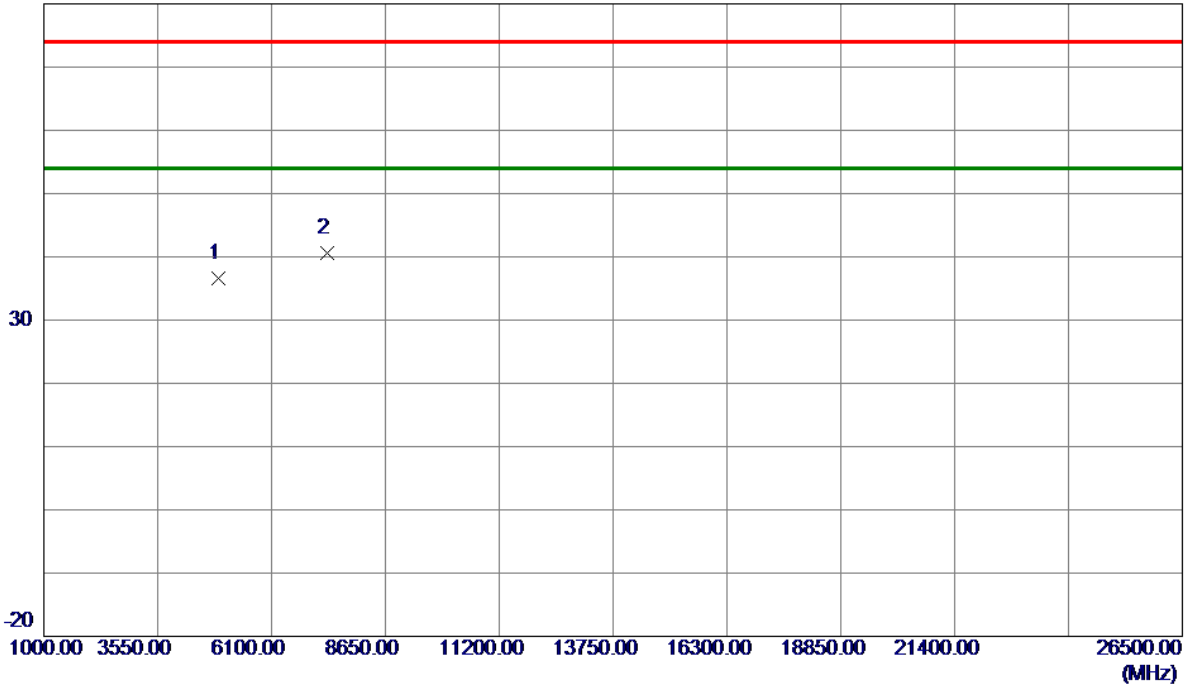
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2453.4500	71.20	31.71	102.91	74.00	28.91	Peak	No limit
2 *	2453.4500	63.45	31.71	95.16	54.00	41.16	AVG	No limit
3	2483.5000	26.46	31.71	58.17	74.00	-15.83	Peak	
4	2483.5000	12.21	31.71	43.92	54.00	-10.08	AVG	

**REMARKS:**

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Horizontal
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80 dBuV/m



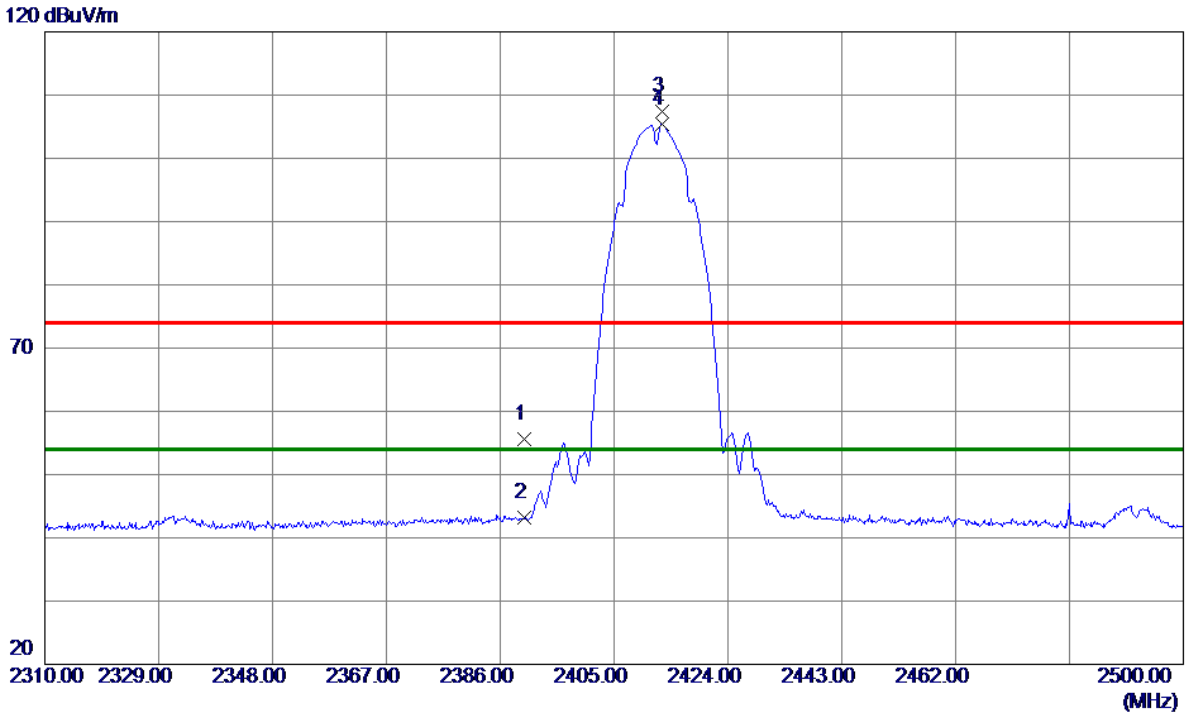
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.0000	53.50	-16.85	36.65	74.00	-37.35	Peak	
2 *	7356.0000	53.38	-12.81	40.57	74.00	-33.43	Peak	

REMARKS:

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

## MTK7663

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.85	31.74	55.59	74.00	-18.41	Peak	
2	2390.0000	11.52	31.74	43.26	54.00	-10.74	AVG	
3	2412.9800	75.75	31.72	107.47	74.00	33.47	Peak	NO Limit
4 *	2412.9800	73.64	31.72	105.36	54.00	51.36	AVG	NO Limit

**REMARKS:**

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

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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86.9 dBuV/m

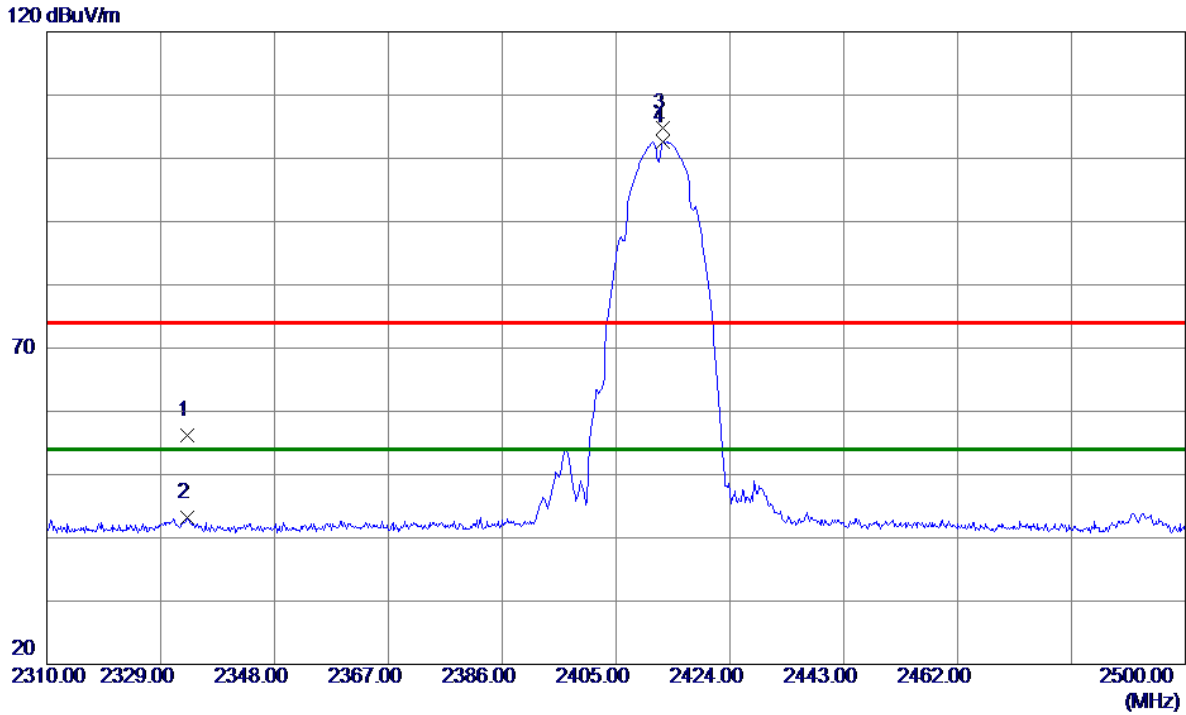


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4825.0000	57.99	-16.98	41.01	74.00	-32.99	Peak	
2 *	7237.3000	56.26	-12.89	43.37	74.00	-30.63	Peak	

**REMARKS:**

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

Test Mode	TX B Mode 2412 MHz	Polarization	Horizontal
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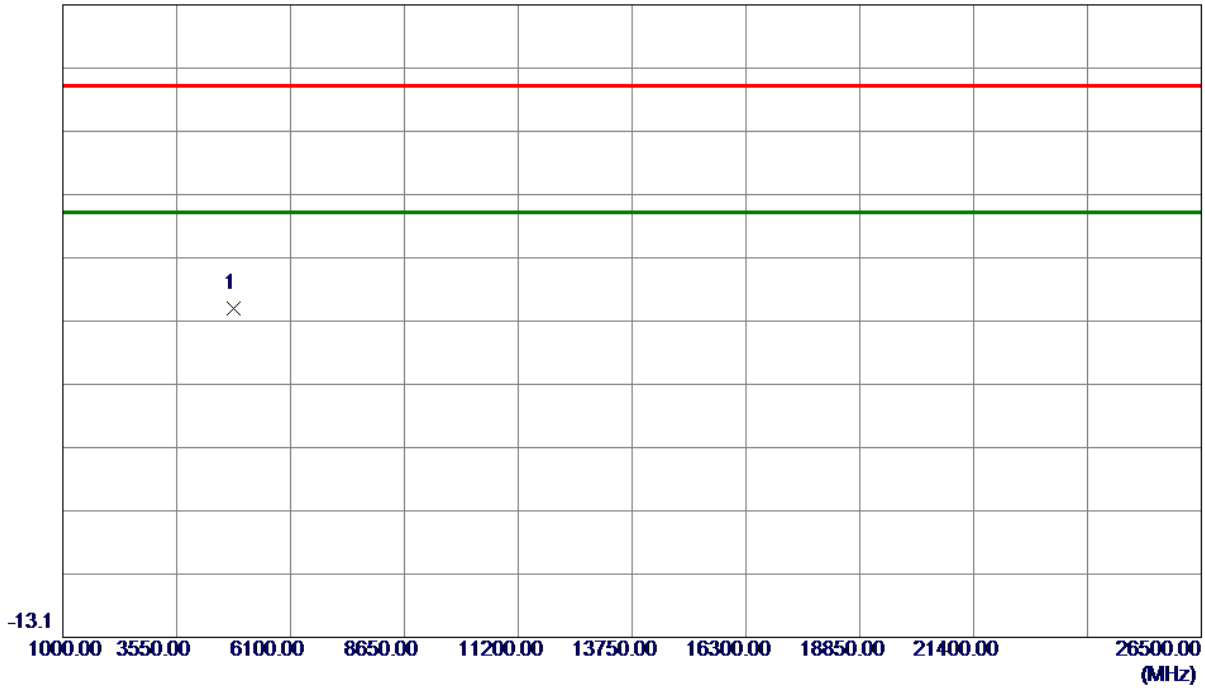
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2333.3700	24.30	31.85	56.15	74.00	-17.85	Peak	
2	2333.3700	11.32	31.85	43.17	54.00	-10.83	AVG	
3	2412.8850	73.12	31.72	104.84	74.00	30.84	Peak	NO Limit
4 *	2412.8850	70.89	31.72	102.61	54.00	48.61	AVG	NO Limit

**REMARKS:**

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

Test Mode	TX B Mode 2412 MHz	Polarization	Horizontal
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86.9 dBuV/m

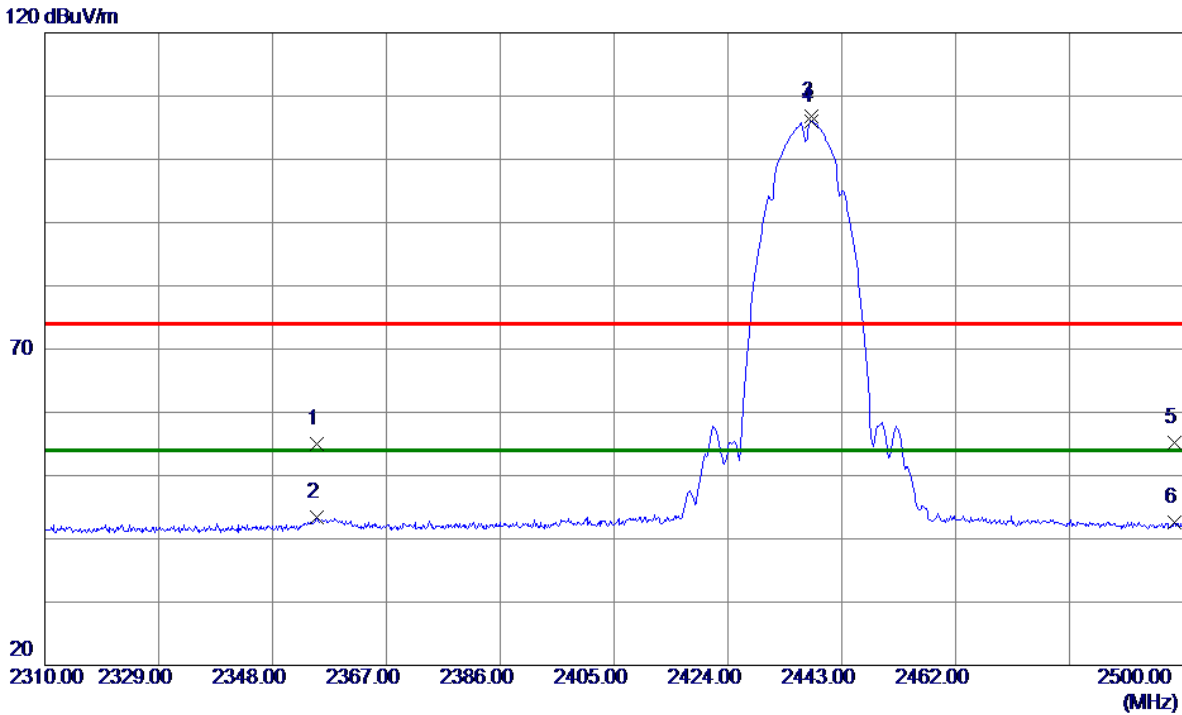


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.7250	55.91	-16.98	38.93	74.00	-35.07	Peak	

**REMARKS:**

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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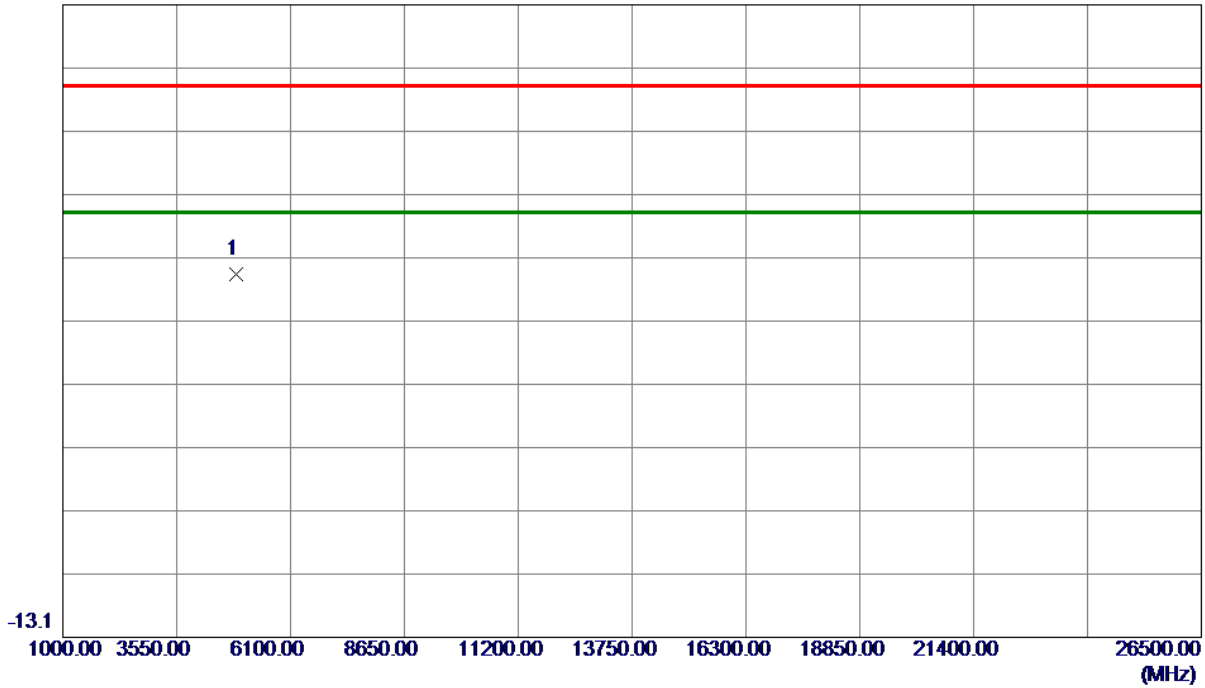
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2355.3150	23.26	31.81	55.07	74.00	-18.93	Peak	
2	2355.3150	11.56	31.81	43.37	54.00	-10.63	AVG	
3	2437.9650	75.04	31.72	106.76	74.00	32.76	Peak	NO Limit
4 *	2437.9650	74.30	31.72	106.02	54.00	52.02	AVG	NO Limit
5	2498.5750	23.43	31.71	55.14	74.00	-18.86	Peak	
6	2498.5750	10.95	31.71	42.66	54.00	-11.34	AVG	

**REMARKS:**

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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86.9 dBuV/m



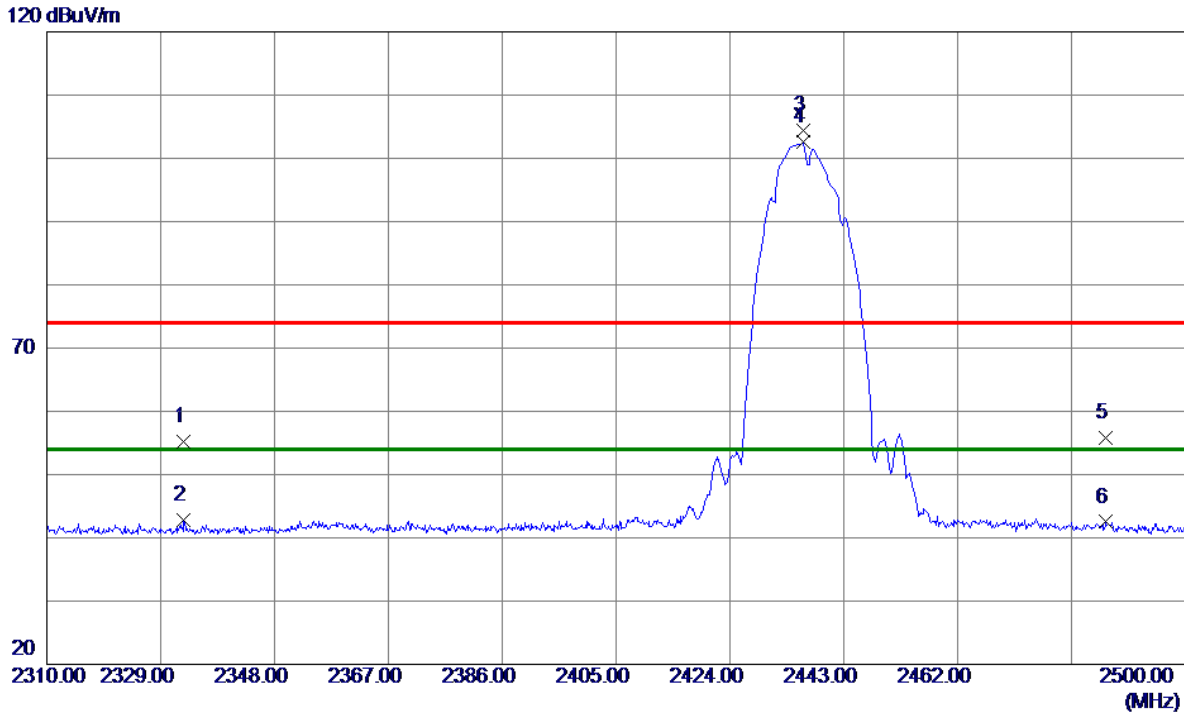
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.7250	61.14	-16.90	44.24	74.00	-29.76	Peak	

**REMARKS:**

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



Test Mode	TX B Mode 2437 MHz	Polarization	Horizontal
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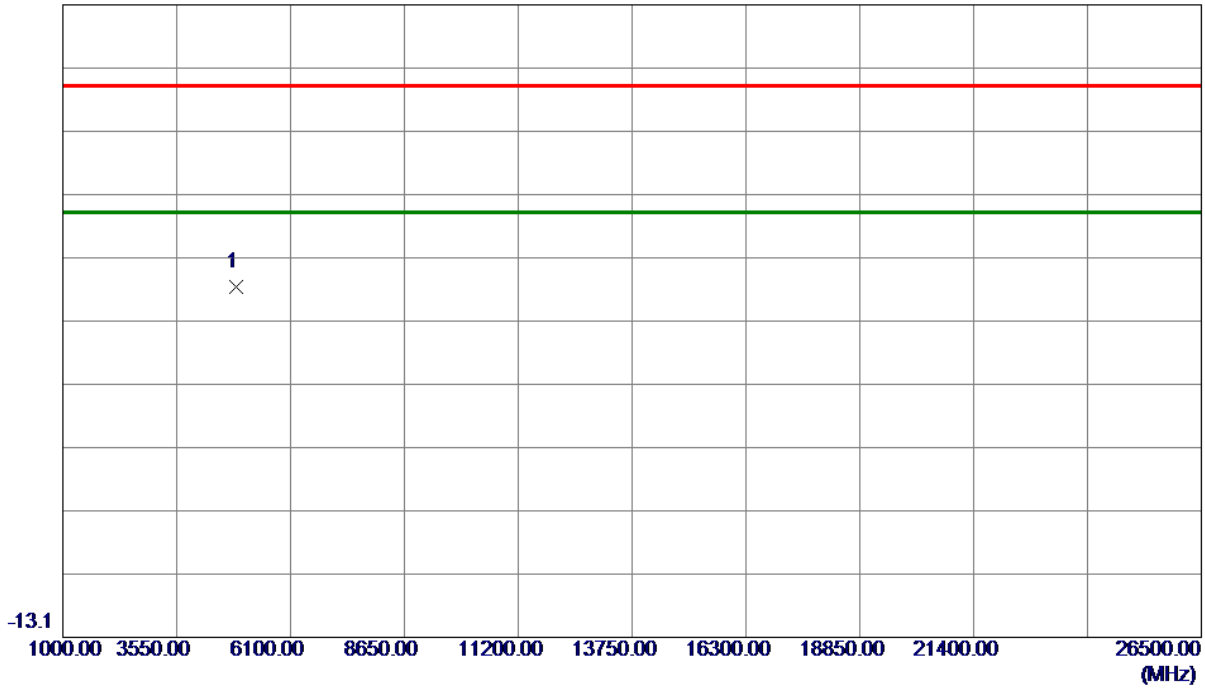
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2332.8950	23.34	31.85	55.19	74.00	-18.81	Peak	
2	2332.8950	10.87	31.85	42.72	54.00	-11.28	AVG	
3	2436.2549	72.75	31.72	104.47	74.00	30.47	Peak	NO Limit
4 *	2436.2549	70.80	31.72	102.52	54.00	48.52	AVG	NO Limit
5	2486.7000	24.16	31.71	55.87	74.00	-18.13	Peak	
6	2486.7000	10.79	31.71	42.50	54.00	-11.50	AVG	

**REMARKS:**

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

Test Mode	TX B Mode 2437 MHz	Polarization	Horizontal
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86.9 dBuV/m

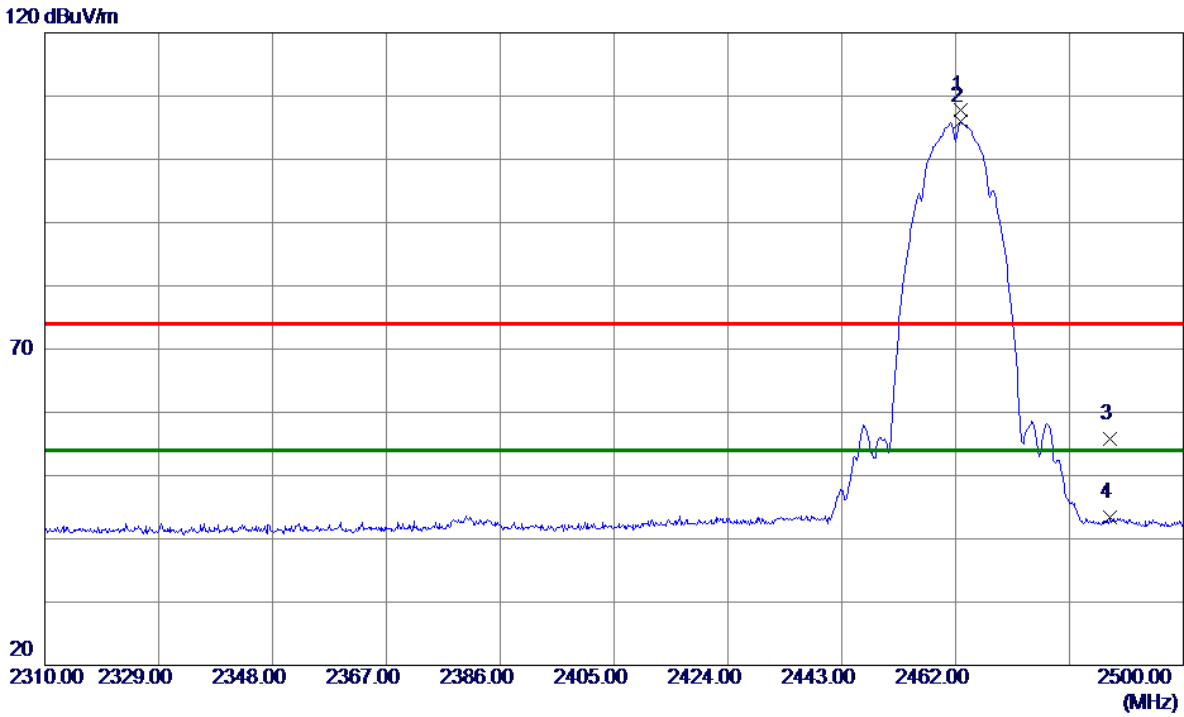


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.7250	59.14	-16.90	42.24	74.00	-31.76	Peak	

**REMARKS:**

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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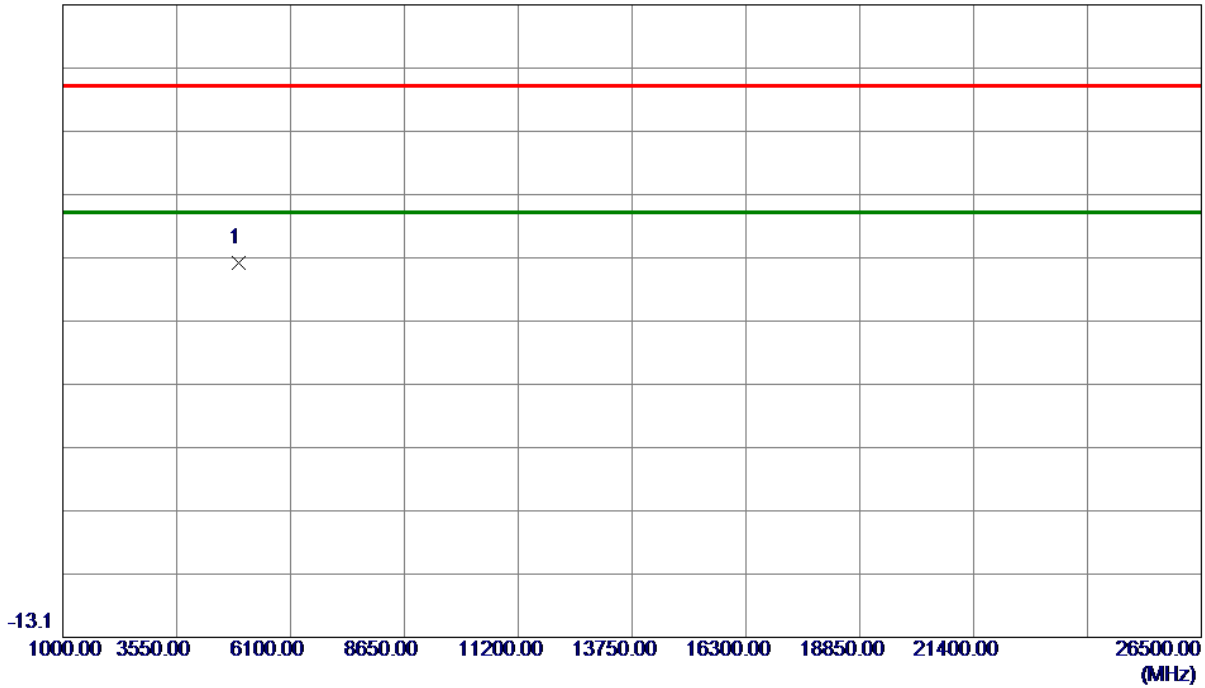
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.8550	76.17	31.71	107.88	74.00	33.88	Peak	NO Limit
2 *	2462.8550	74.25	31.71	105.96	54.00	51.96	AVG	NO Limit
3	2487.8400	24.11	31.71	55.82	74.00	-18.18	Peak	
4	2487.8400	11.64	31.71	43.35	54.00	-10.65	AVG	

**REMARKS:**

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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86.9 dBuV/m

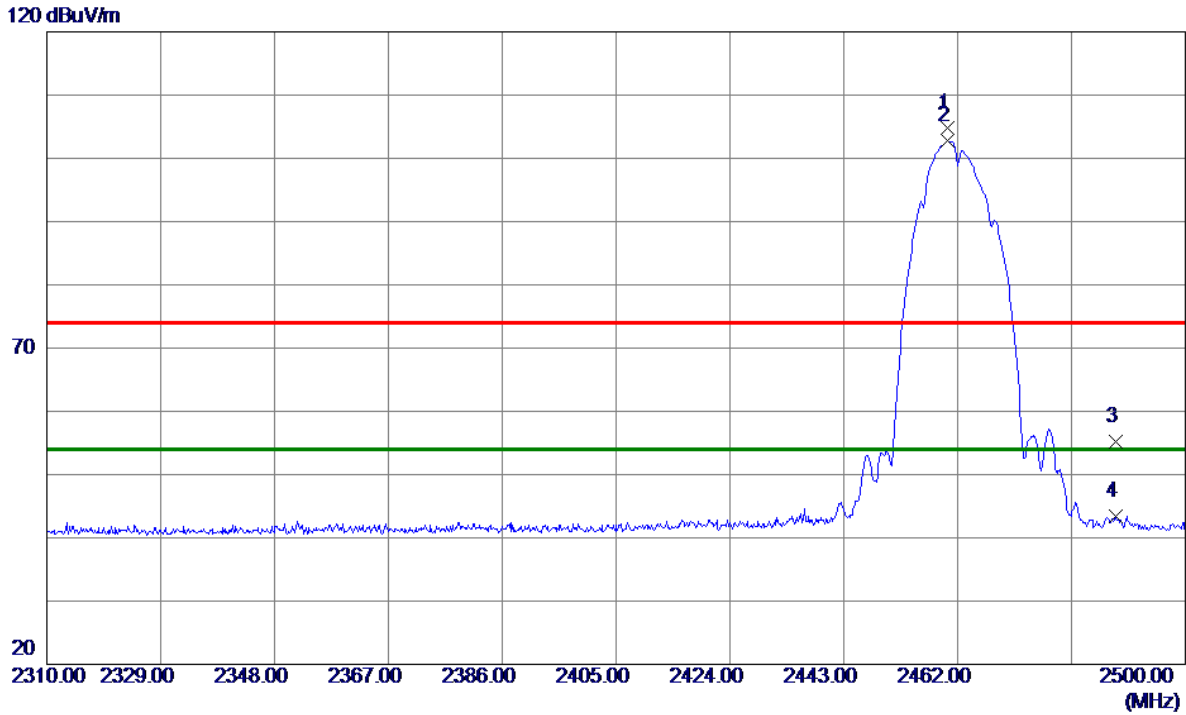


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.4500	62.96	-16.77	46.19	74.00	-27.81	Peak	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Horizontal
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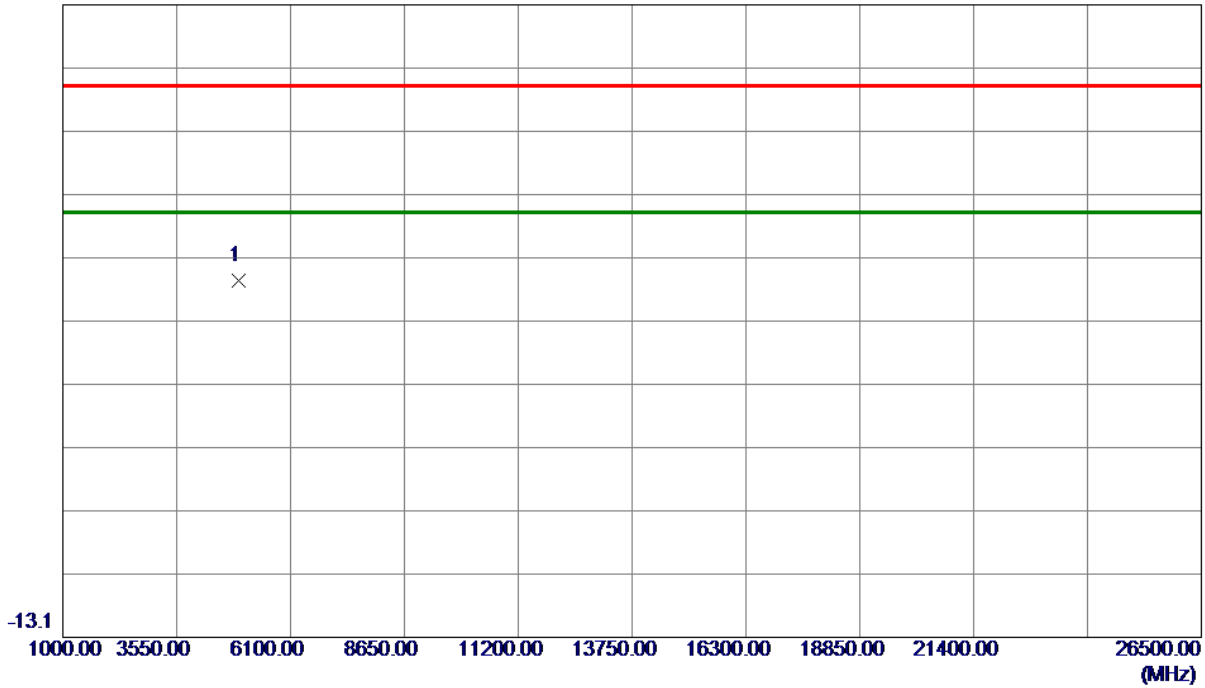
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2460.3850	73.16	31.71	104.87	74.00	30.87	Peak	NO Limit
2 *	2460.3850	71.06	31.71	102.77	54.00	48.77	AVG	NO Limit
3	2488.3150	23.58	31.71	55.29	74.00	-18.71	Peak	
4	2488.3150	11.71	31.71	43.42	54.00	-10.58	AVG	

**REMARKS:**

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

Test Mode	TX B Mode 2462 MHz	Polarization	Horizontal
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86.9 dBuV/m

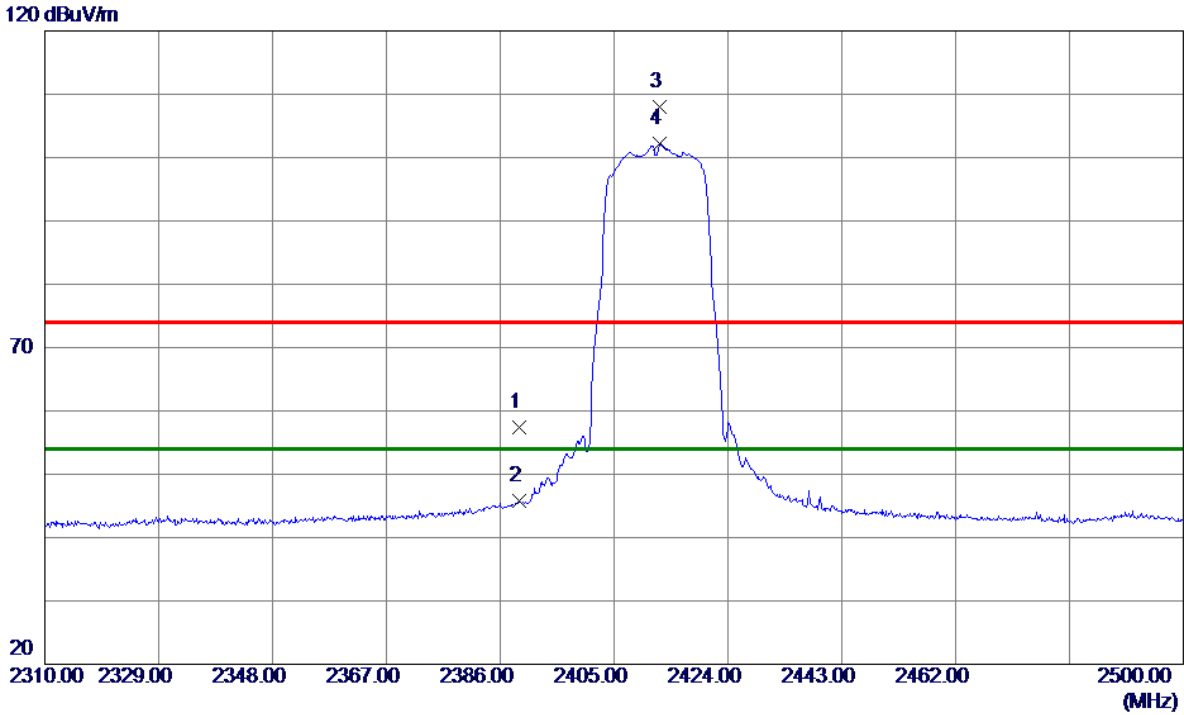


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.4500	60.12	-16.77	43.35	74.00	-30.65	Peak	

**REMARKS:**

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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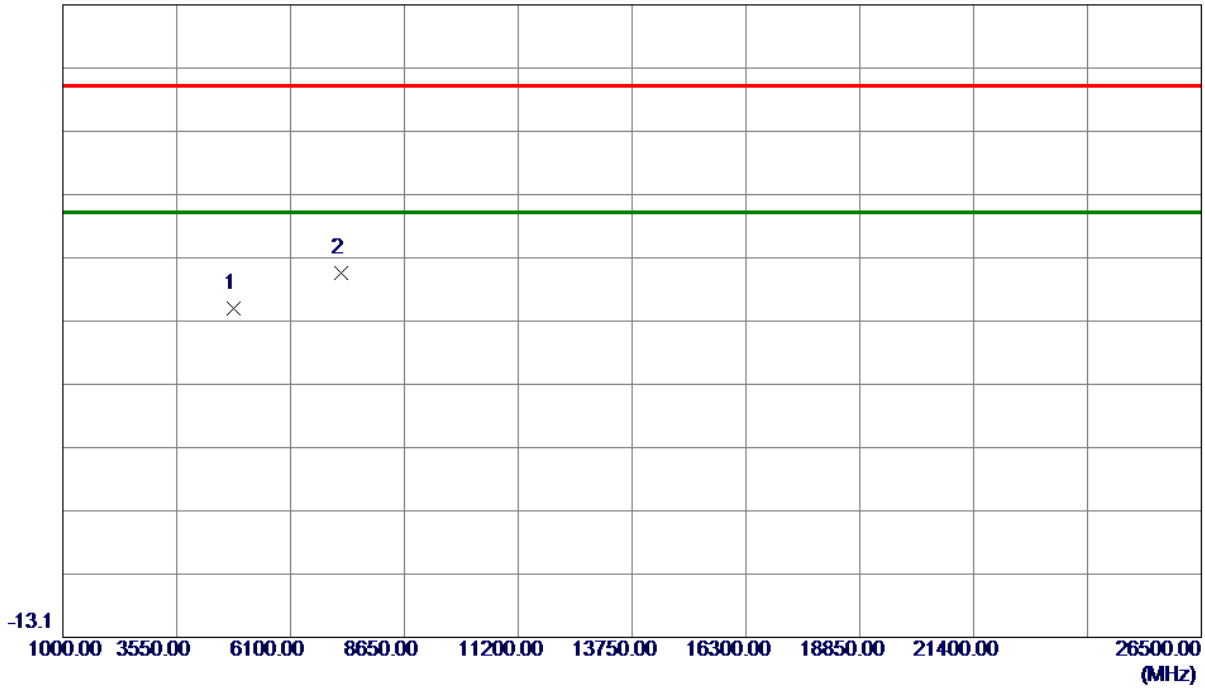
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.2300	25.69	31.74	57.43	74.00	-16.57	Peak	
2	2389.2300	14.01	31.74	45.75	54.00	-8.25	AVG	
3	2412.6950	76.36	31.72	108.08	74.00	34.08	Peak	NO Limit
4 *	2412.6950	70.48	31.72	102.20	54.00	48.20	AVG	NO Limit

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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86.9 dBuV/m



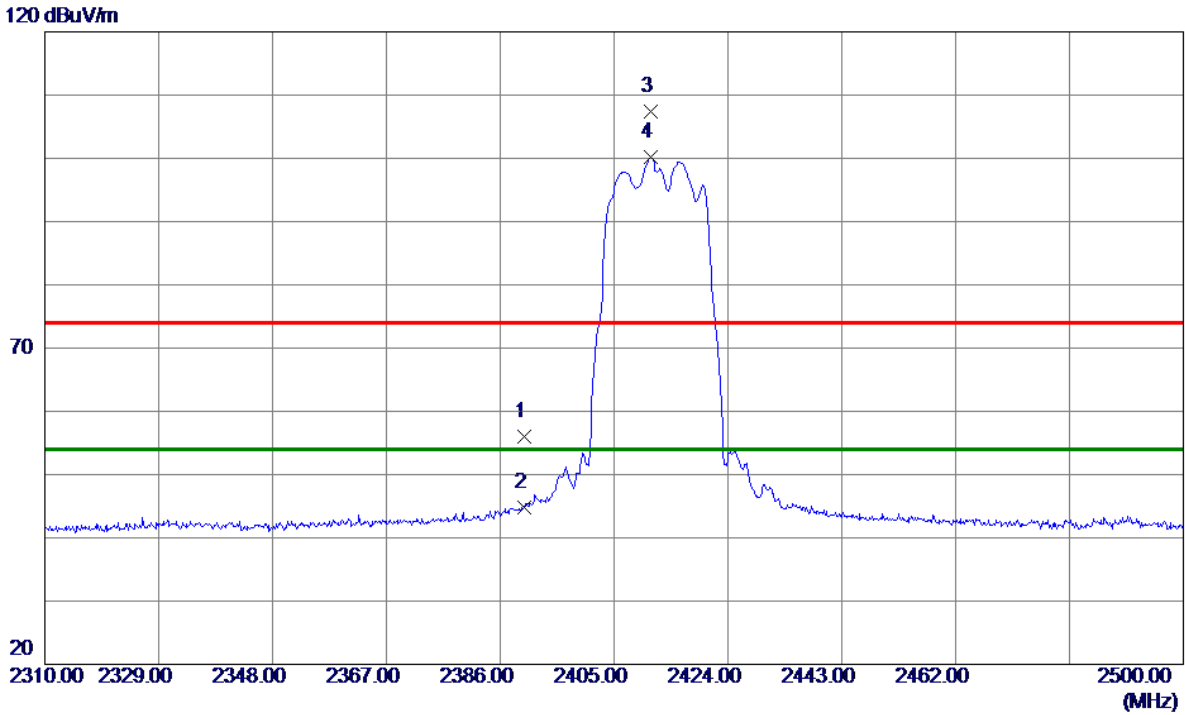
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4828.8250	55.90	-16.98	38.92	74.00	-35.08	Peak	
2 *	7238.5750	57.46	-12.88	44.58	74.00	-29.42	Peak	

**REMARKS:**

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



Test Mode	TX G Mode 2412 MHz	Polarization	Horizontal
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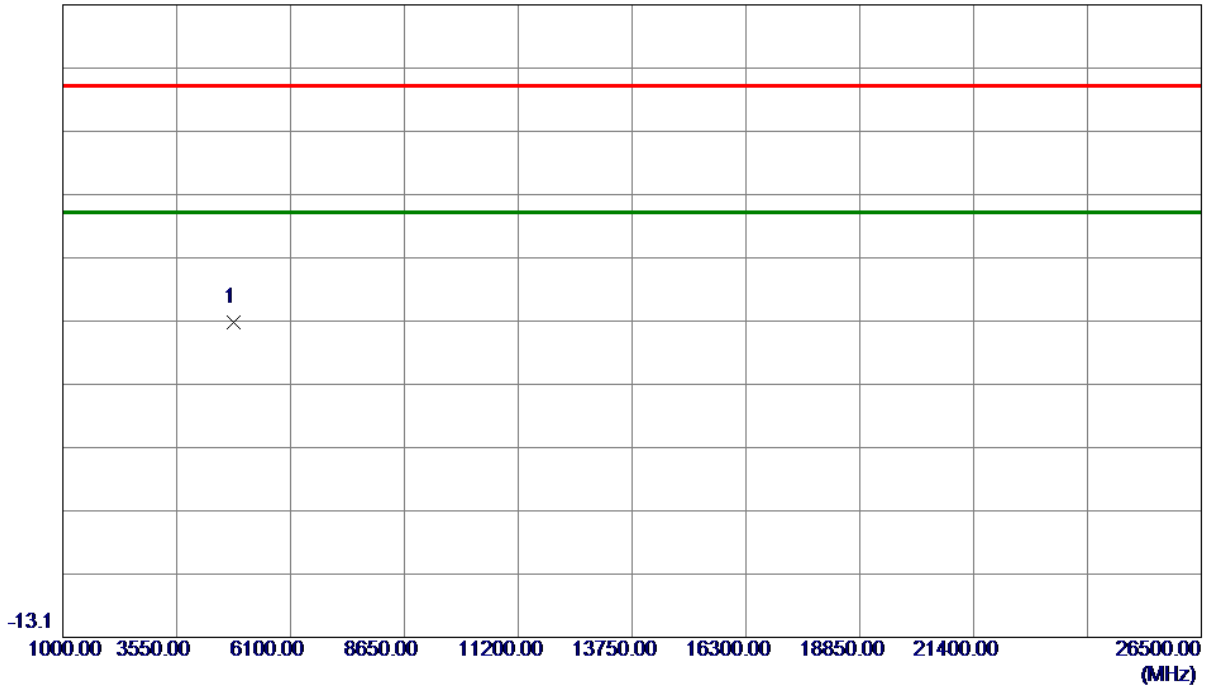
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.31	31.74	56.05	74.00	-17.95	Peak	
2	2390.0000	13.12	31.74	44.86	54.00	-9.14	AVG	
3	2411.1750	75.72	31.72	107.44	74.00	33.44	Peak	NO Limit
4 *	2411.1750	68.46	31.72	100.18	54.00	46.18	AVG	NO Limit

**REMARKS:**

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

Test Mode	TX G Mode 2412 MHz	Polarization	Horizontal
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86.9 dBuV/m

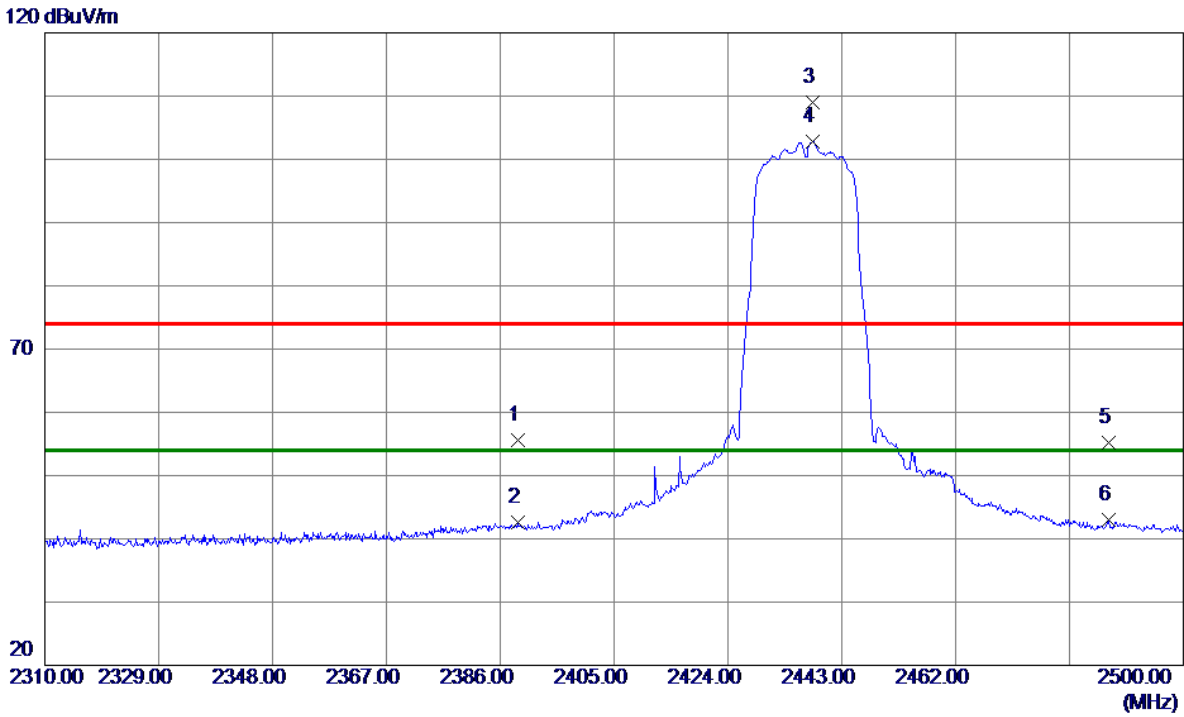


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.0000	53.59	-16.98	36.61	74.00	-37.39	Peak	

**REMARKS:**

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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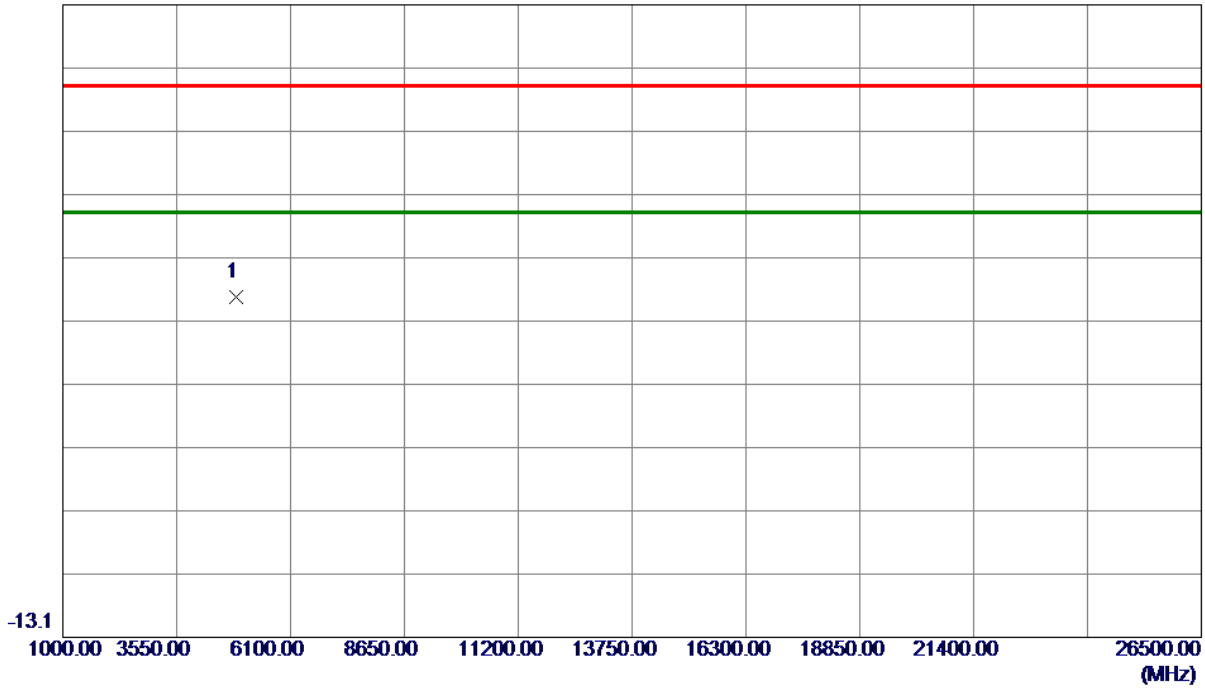
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.9450	23.78	31.74	55.52	74.00	-18.48	Peak	
2	2388.9450	10.86	31.74	42.60	54.00	-11.40	AVG	
3	2438.1550	77.35	31.72	109.07	74.00	35.07	Peak	NO Limit
4 *	2438.1550	71.13	31.72	102.85	54.00	48.85	AVG	NO Limit
5	2487.4600	23.49	31.71	55.20	74.00	-18.80	Peak	
6	2487.4600	11.28	31.71	42.99	54.00	-11.01	AVG	

**REMARKS:**

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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86.9 dBuV/m

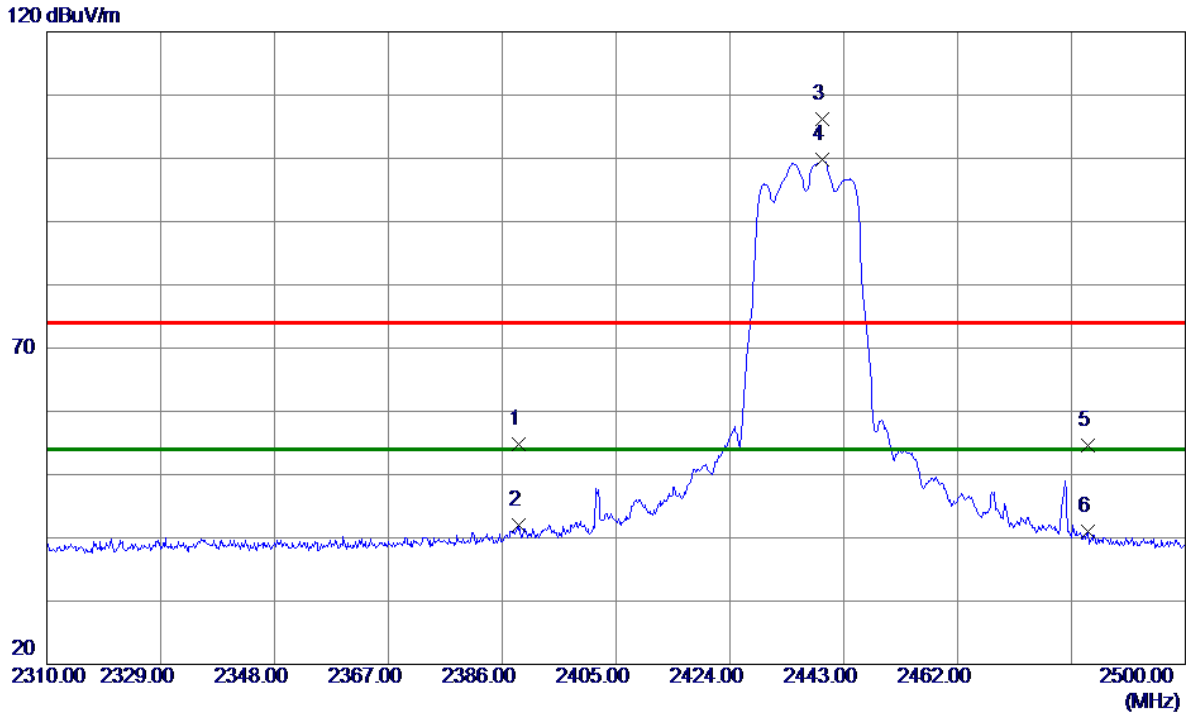


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4877.2750	57.54	-16.90	40.64	74.00	-33.36	Peak	

**REMARKS:**

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

Test Mode	TX G Mode 2437 MHz	Polarization	Horizontal
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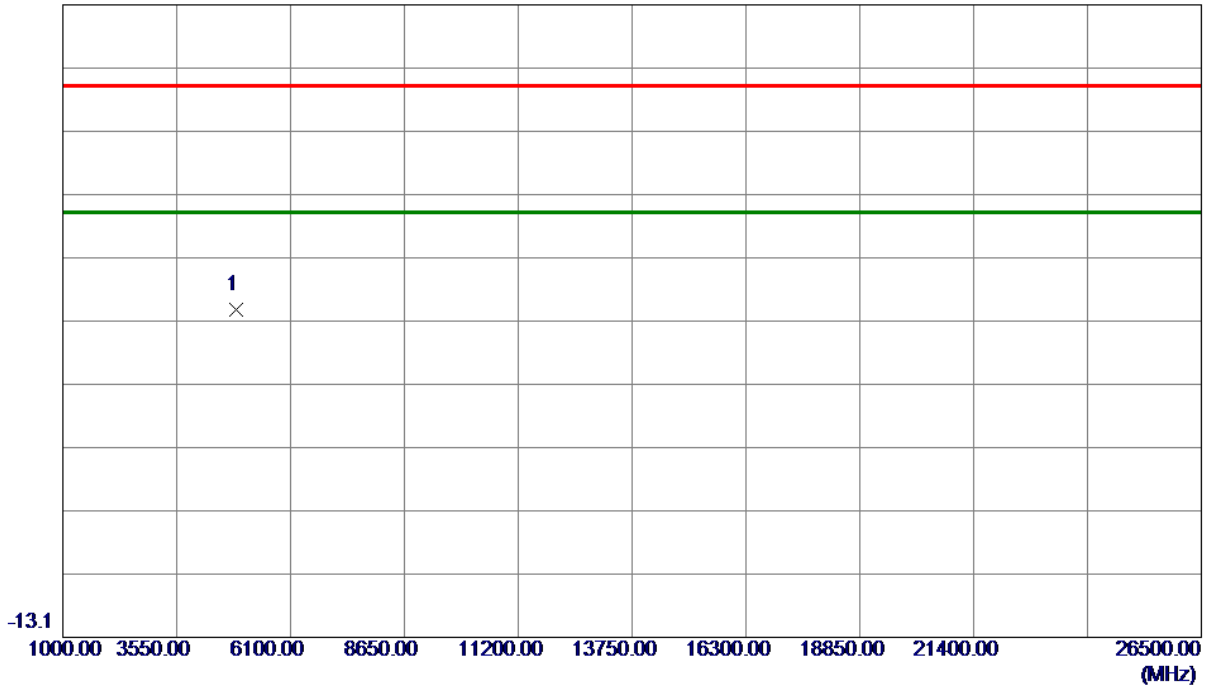
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.8500	22.98	31.74	54.72	74.00	-19.28	Peak	
2	2388.8500	10.27	31.74	42.01	54.00	-11.99	AVG	
3	2439.4850	74.43	31.72	106.15	74.00	32.15	Peak	NO Limit
4 *	2439.4850	67.99	31.72	99.71	54.00	45.71	AVG	NO Limit
5	2483.8500	22.96	31.71	54.67	74.00	-19.33	Peak	
6	2483.8500	9.25	31.71	40.96	54.00	-13.04	AVG	

**REMARKS:**

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

Test Mode	TX G Mode 2437 MHz	Polarization	Horizontal
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86.9 dBuV/m

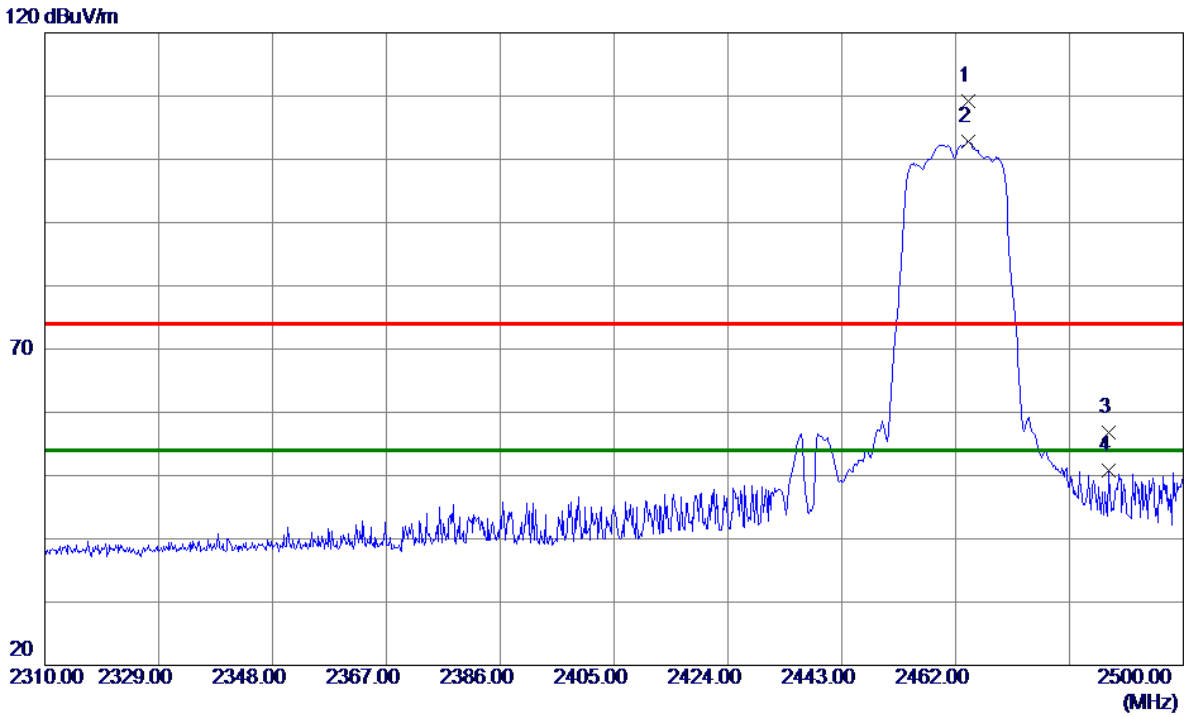


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4870.9000	55.69	-16.91	38.78	74.00	-35.22	Peak	

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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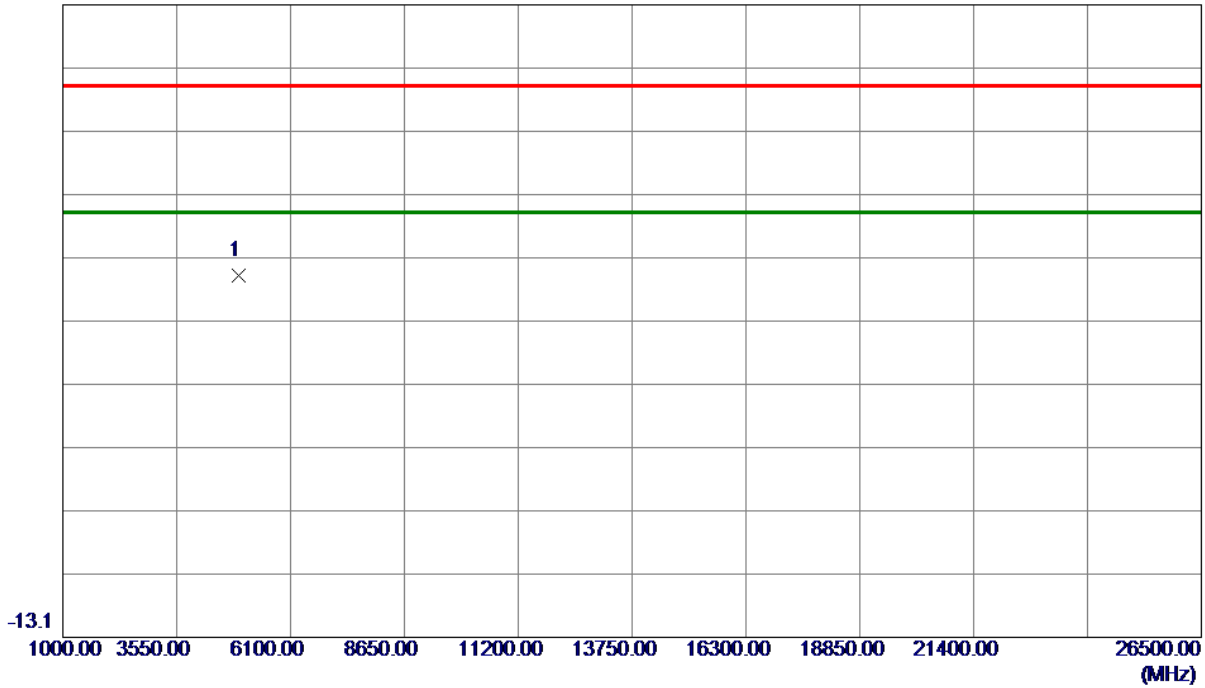
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2464.0900	77.42	31.71	109.13	74.00	35.13	Peak	NO Limit
2 *	2464.0900	71.03	31.71	102.74	54.00	48.74	AVG	NO Limit
3	2487.4600	25.18	31.71	56.89	74.00	-17.11	Peak	
4	2487.4600	19.10	31.71	50.81	54.00	-3.19	AVG	

**REMARKS:**

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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86.9 dBuV/m



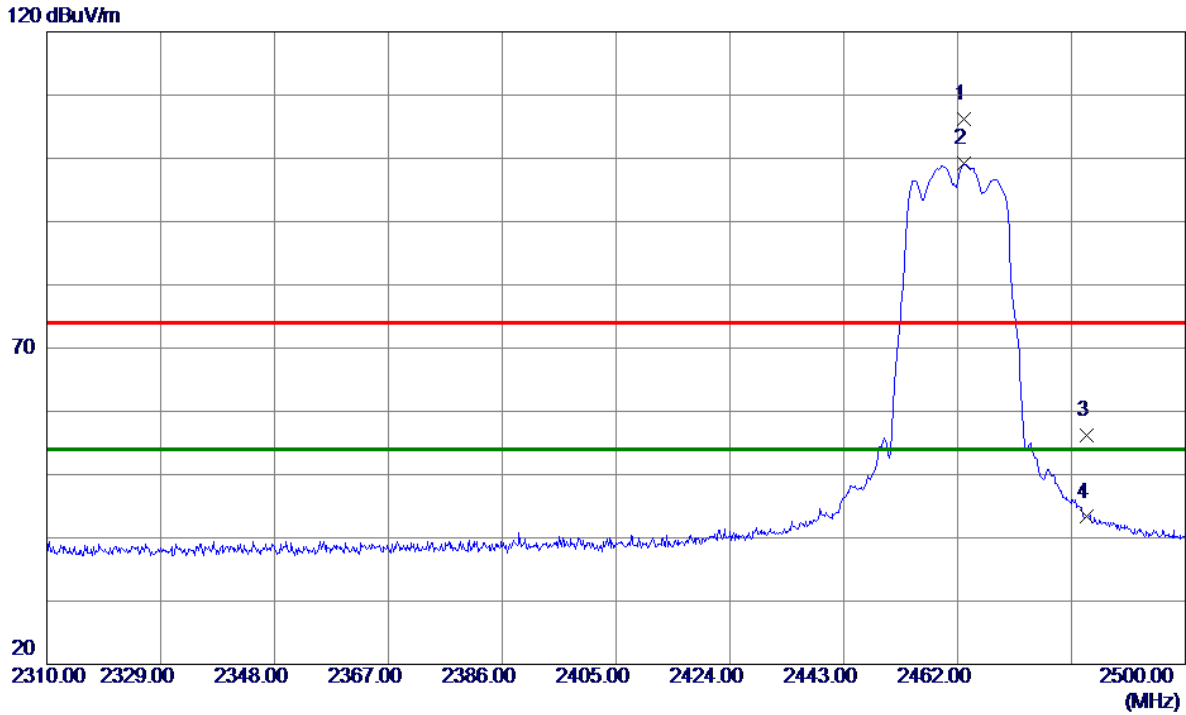
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.4500	60.93	-16.77	44.16	74.00	-29.84	Peak	

**REMARKS:**

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



Test Mode	TX G Mode 2462 MHz	Polarization	Horizontal
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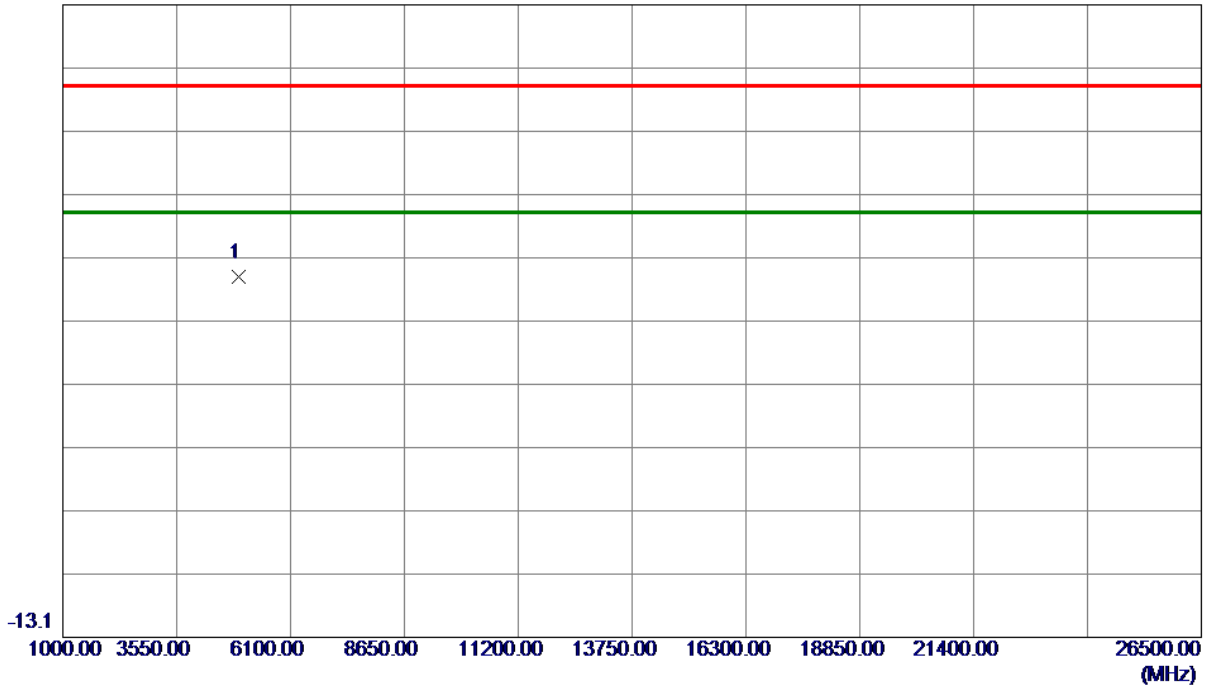
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2463.1399	74.57	31.71	106.28	74.00	32.28	Peak	NO Limit
2 *	2463.1399	67.48	31.71	99.19	54.00	45.19	AVG	NO Limit
3	2483.5000	24.40	31.71	56.11	74.00	-17.89	Peak	
4	2483.5000	11.59	31.71	43.30	54.00	-10.70	AVG	

**REMARKS:**

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

Test Mode	TX G Mode 2462 MHz	Polarization	Horizontal
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86.9 dBuV/m

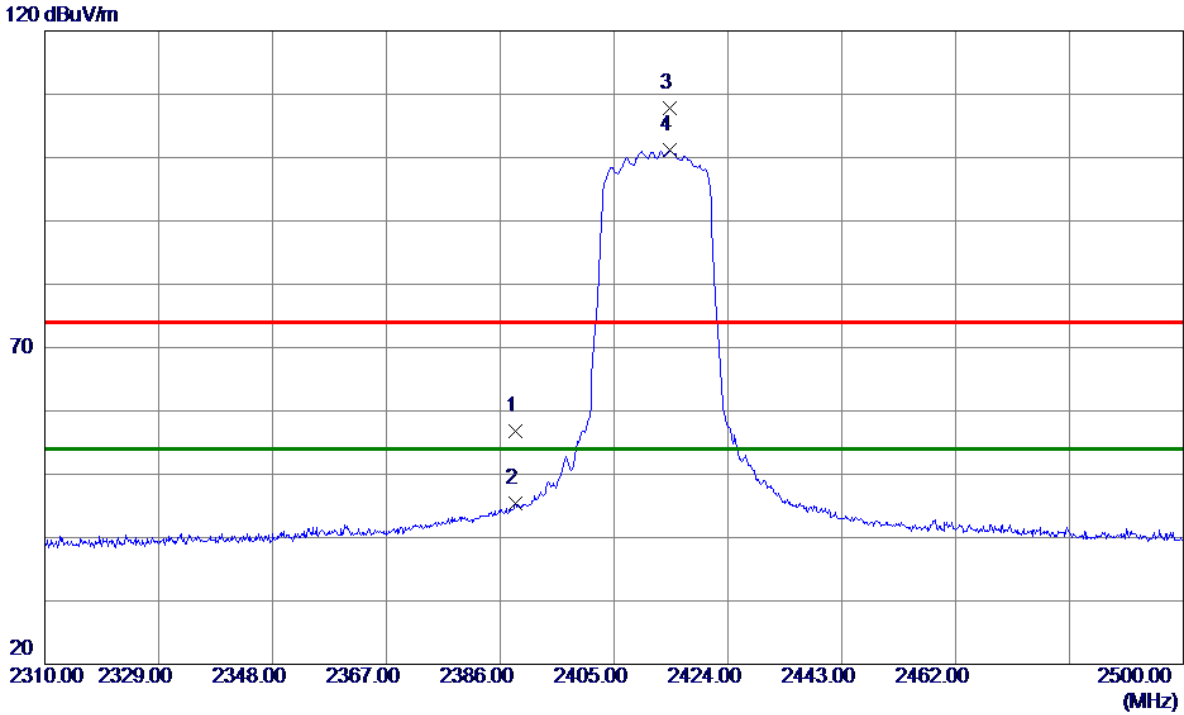


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.4500	60.57	-16.77	43.80	74.00	-30.20	Peak	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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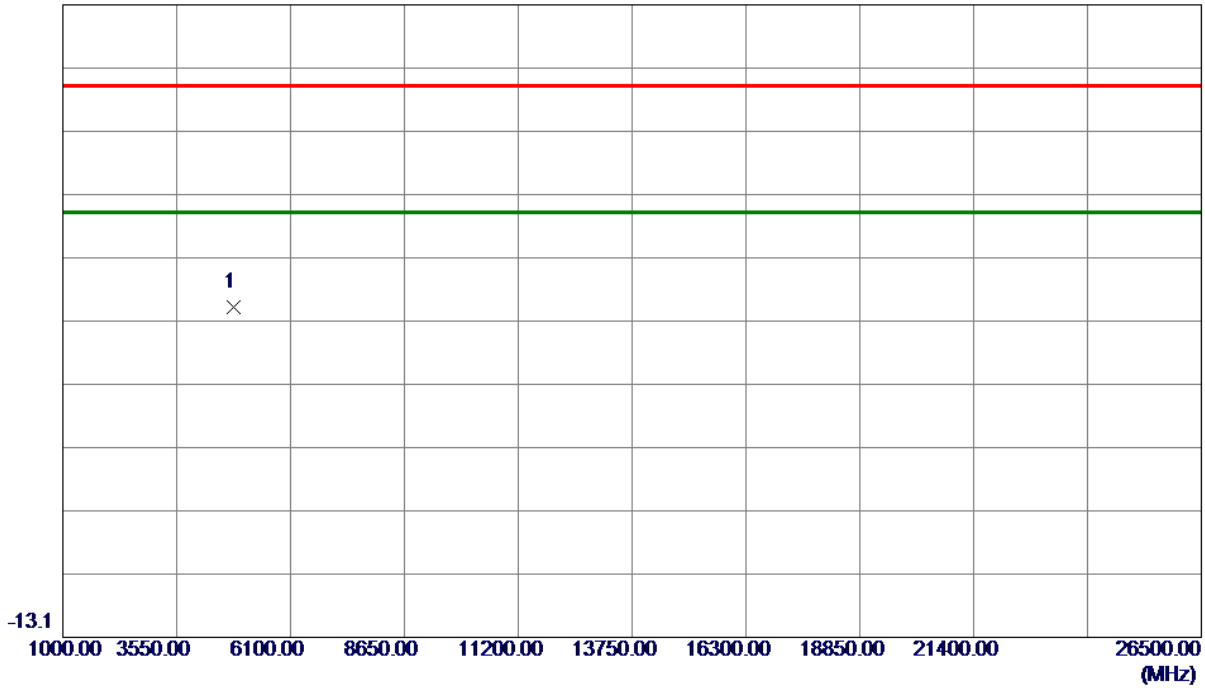
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.4700	25.15	31.74	56.89	74.00	-17.11	Peak	
2	2388.4700	13.73	31.74	45.47	54.00	-8.53	AVG	
3	2414.3100	76.08	31.72	107.80	74.00	33.80	Peak	NO Limit
4 *	2414.3100	69.56	31.72	101.28	54.00	47.28	AVG	NO Limit

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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86.9 dBuV/m

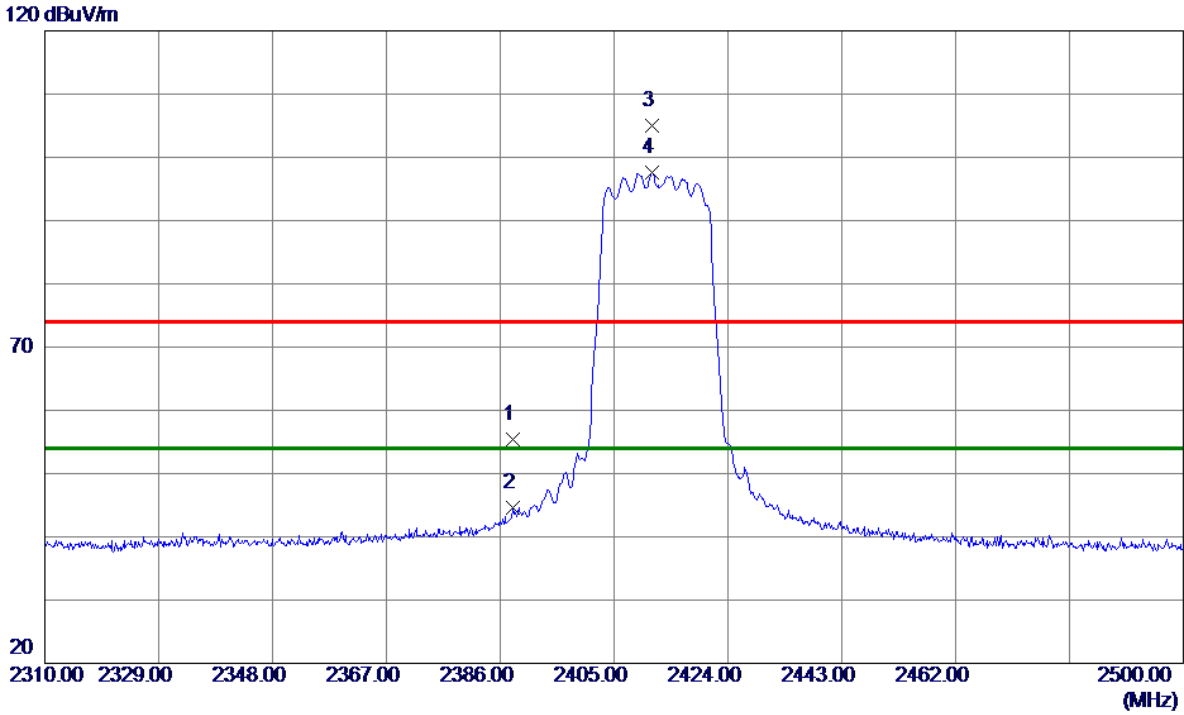


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4832.6500	56.05	-16.97	39.08	74.00	-34.92	Peak	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Horizontal
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.1850	23.68	31.74	55.42	74.00	-18.58	Peak	
2	2388.1850	12.89	31.74	44.63	54.00	-9.37	AVG	
3	2411.2700	73.31	31.72	105.03	74.00	31.03	Peak	NO Limit
4 *	2411.2700	65.89	31.72	97.61	54.00	43.61	AVG	NO Limit

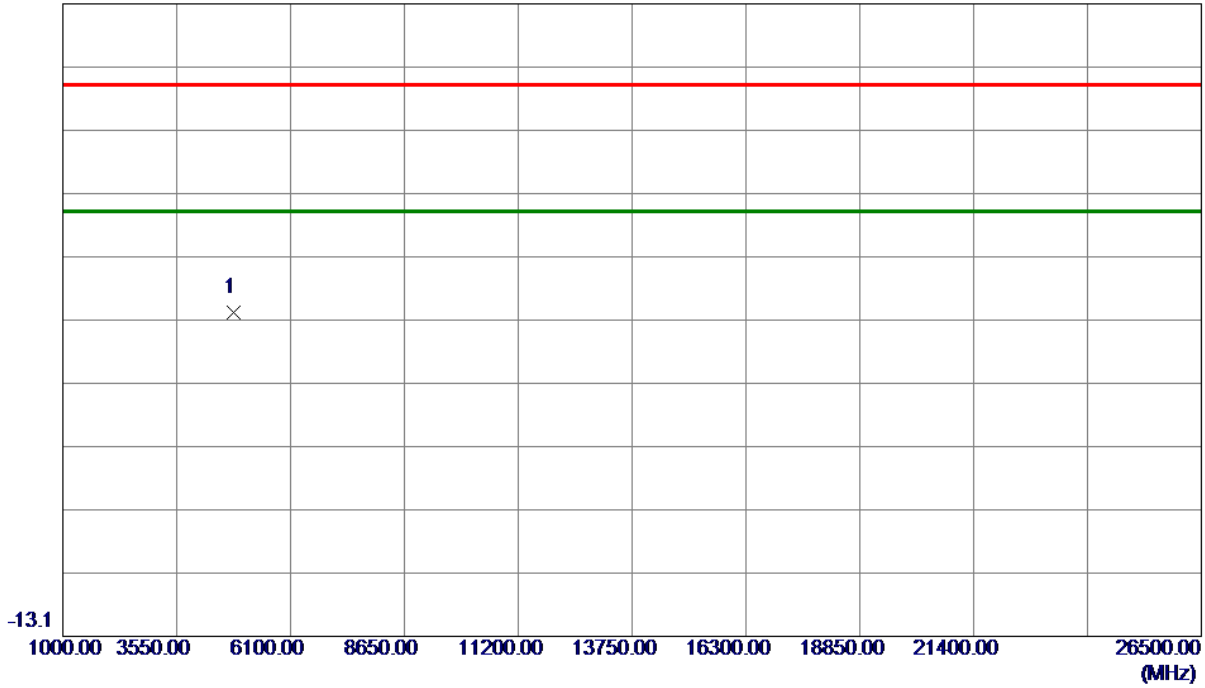
**REMARKS:**

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

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Horizontal
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86.9 dBuV/m

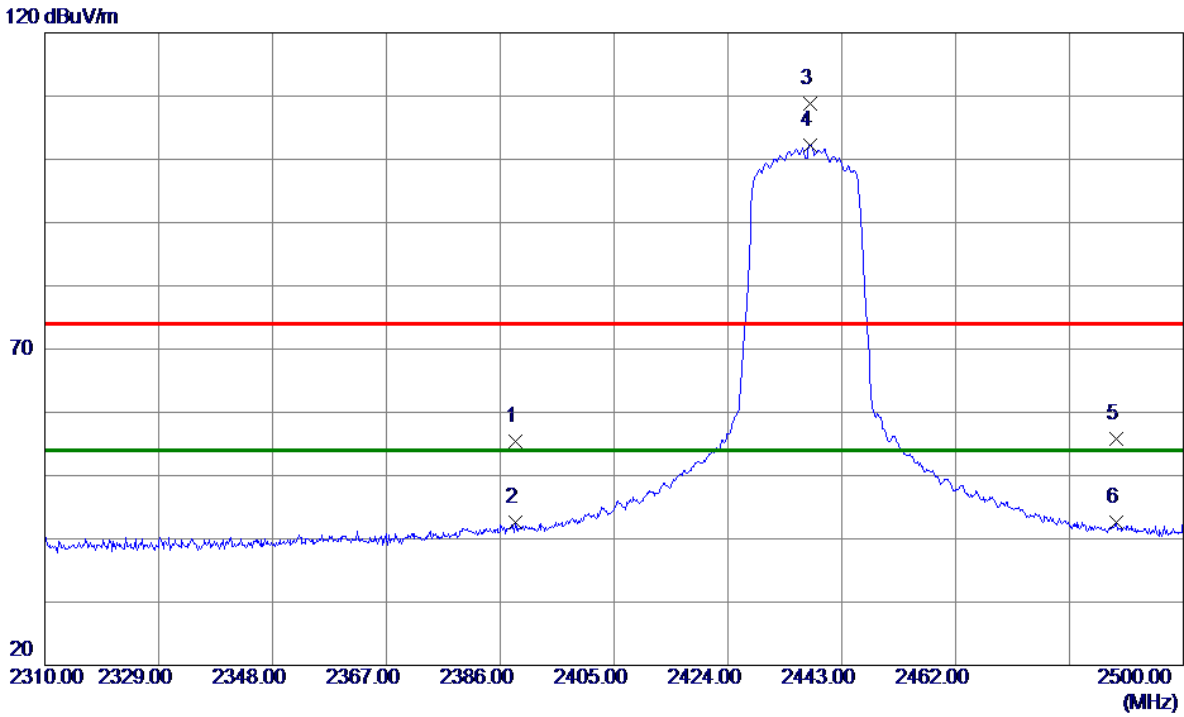


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4827.5500	55.11	-16.98	38.13	74.00	-35.87	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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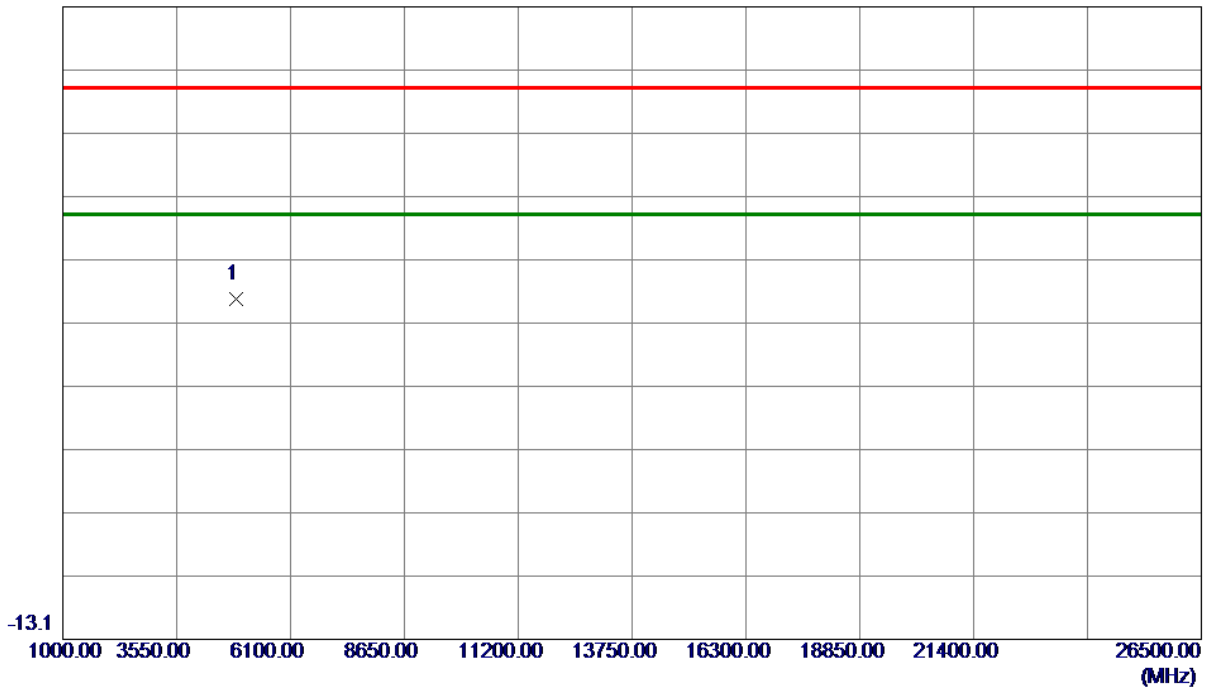
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.4700	23.63	31.74	55.37	74.00	-18.63	Peak	
2	2388.4700	10.90	31.74	42.64	54.00	-11.36	AVG	
3	2437.7750	77.10	31.72	108.82	74.00	34.82	Peak	NO Limit
4 *	2437.7750	70.49	31.72	102.21	54.00	48.21	AVG	NO Limit
5	2488.7900	24.05	31.71	55.76	74.00	-18.24	Peak	
6	2488.7900	10.90	31.71	42.61	54.00	-11.39	AVG	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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86.9 dBuV/m



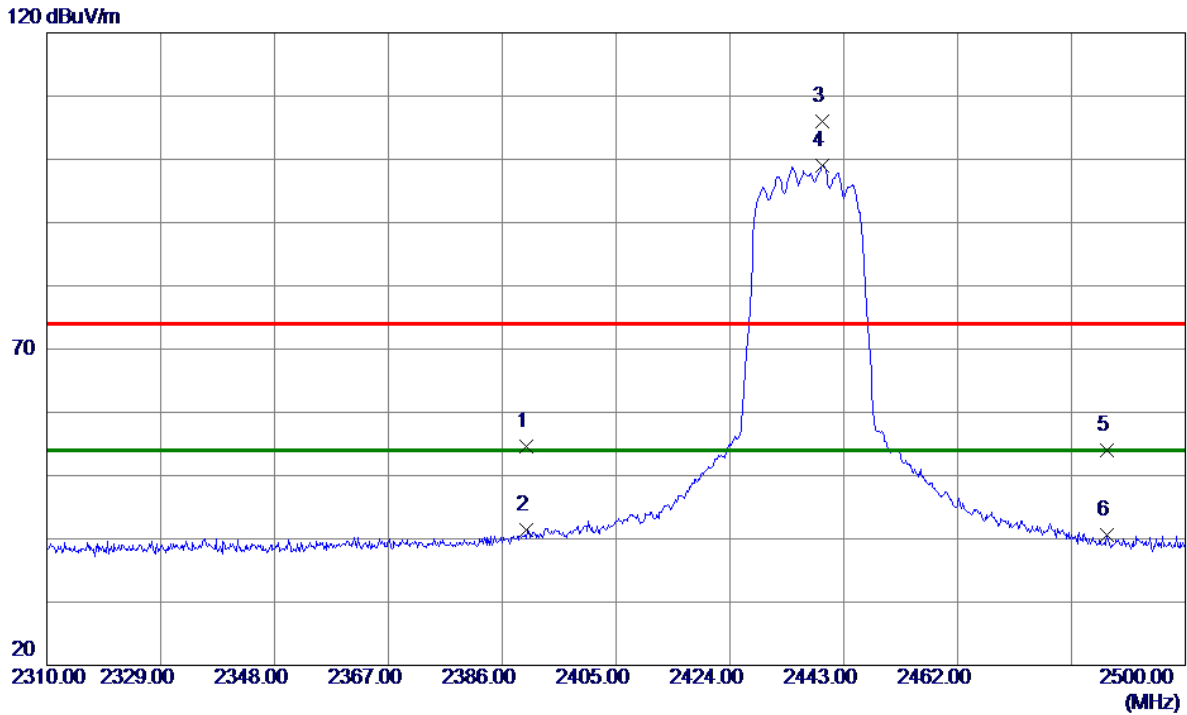
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4872.1750	57.62	-16.91	40.71	74.00	-33.29	Peak	

**REMARKS:**

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



Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Horizontal
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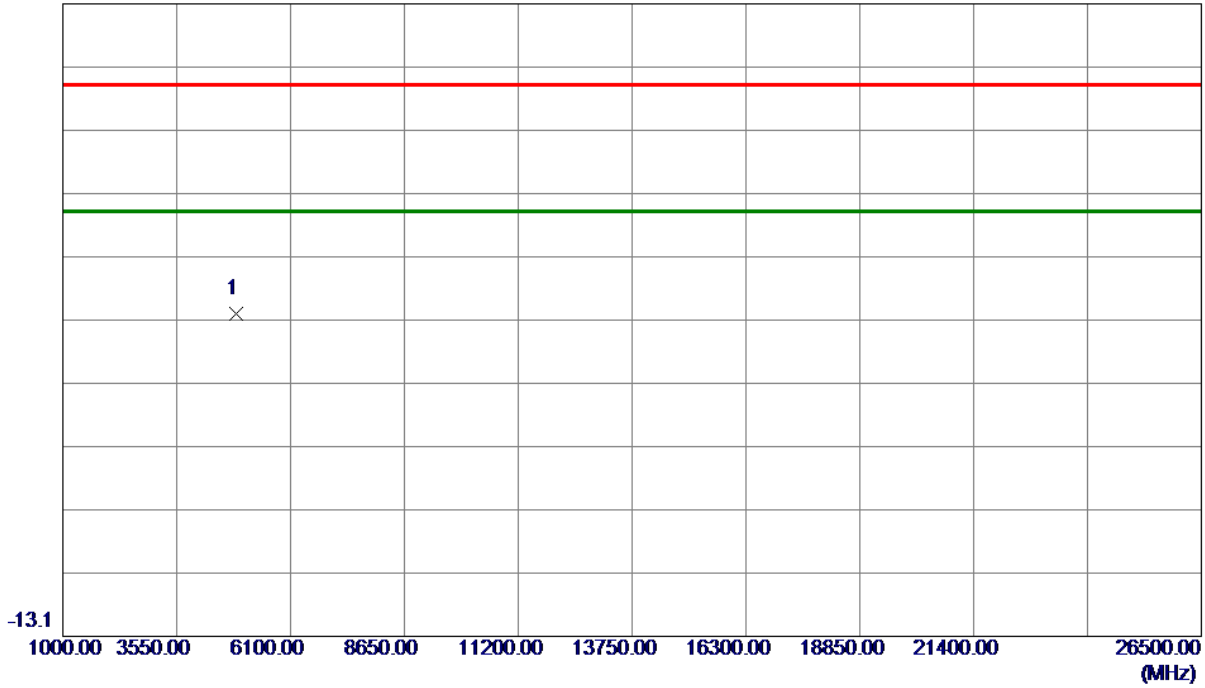
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	22.95	31.74	54.69	74.00	-19.31	Peak	
2	2390.0000	9.64	31.74	41.38	54.00	-12.62	AVG	
3	2439.4850	74.27	31.72	105.99	74.00	31.99	Peak	NO Limit
4 *	2439.4850	67.32	31.72	99.04	54.00	45.04	AVG	NO Limit
5	2486.9850	22.28	31.71	53.99	74.00	-20.01	Peak	
6	2486.9850	8.89	31.71	40.60	54.00	-13.40	AVG	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Horizontal
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86.9 dBuV/m

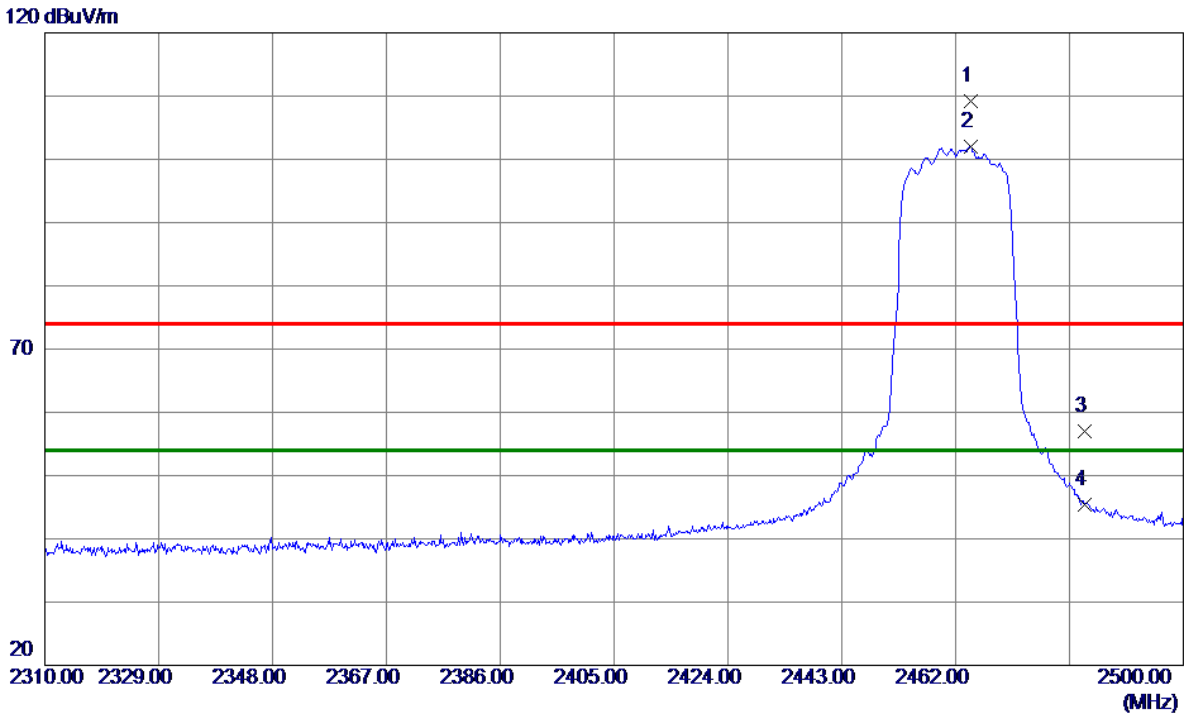


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4876.0000	54.78	-16.90	37.88	74.00	-36.12	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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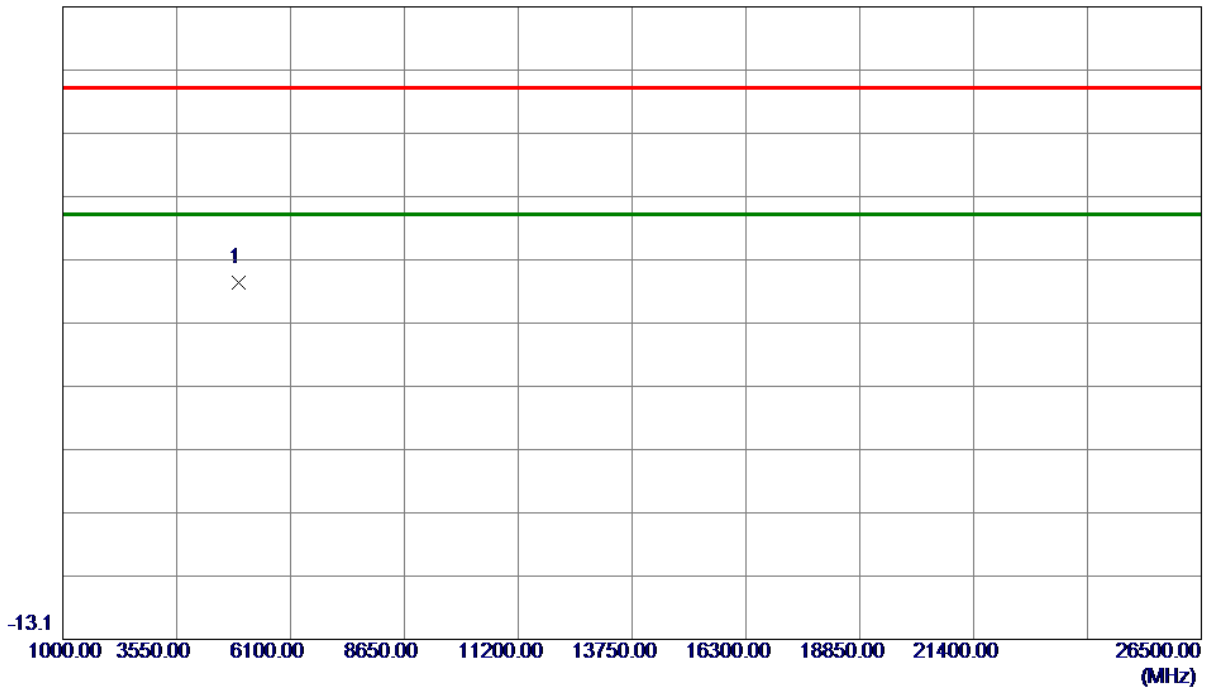
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2464.4700	77.43	31.71	109.14	74.00	35.14	Peak	NO Limit
2 *	2464.4700	70.24	31.71	101.95	54.00	47.95	AVG	NO Limit
3	2483.5000	25.24	31.71	56.95	74.00	-17.05	Peak	
4	2483.5000	13.72	31.71	45.43	54.00	-8.57	AVG	

**REMARKS:**

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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86.9 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.4500	60.14	-16.77	43.37	74.00	-30.63	Peak	

**REMARKS:**

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