

# FCC Radio Test Report

## FCC ID: V7TMESH3V3

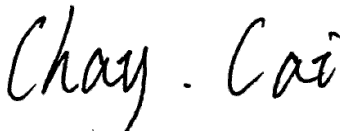
This report concerns: Original Grant

**Project No.** : 2111C147  
**Equipment** : Whole Home Mesh WiFi System  
**Brand Name** : Tenda  
**Test Model** : Mesh3  
**Series Model** : MW6  
**Applicant** : SHENZHEN TENDA TECHNOLOGY CO.,LTD.  
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**Date of Receipt** : Nov. 23, 2021  
**Date of Test** : Nov. 26, 2021 ~ Dec. 18, 2021  
**Issued Date** : Dec. 24, 2021  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: DG2021112426 for conducted, DG2021112425 for radiated.  
**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.



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TESTING CERT #5123.02

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**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).

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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 Version	Description	Issued Date
R00	Original Issue.	Dec. 24, 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. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong, 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	2.60

### B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.36
		30MHz ~ 200MHz	H	3.32
		200MHz ~ 1,000MHz	V	4.08
		200MHz ~ 1,000MHz	H	3.96

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	3.80
		6GHz ~ 18GHz	4.82

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.62
		26.5 ~ 40 GHz	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
Humidity	±1.5%

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-24°C	50%-52%	AC 120V/60Hz AC 240V/50Hz	Aries Tang
Radiated Emissions-9kHz to 30 MHz	22°C	56%	AC 120V/60Hz	Torocat Yuan
Radiated Emissions-30MHz to 1000MHz	20°C	36%	AC 120V/60Hz	Jakyri Wen
Radiated Emissions-Above 1000MHz	20°C	36%	AC 120V/60Hz	Jakyri Wen
Bandwidth	23°C	33%-35%	DC 12V	Nicole Chen
Maximum Output Power	23°C-23.3°C	36%-49.3%	DC 12V	Ansel Yang Lang Chen
Conducted Spurious Emissions	23°C	33%-35%	DC 12V	Nicole Chen
Power Spectral Density	23°C	33%-35%	DC 12V	Nicole Chen

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Whole Home Mesh WiFi System
Brand Name	Tenda
Test Model	Mesh3
Series Model	MW6
Model Difference(s)	Only differ in model name, other are the same.
Power Source	DC Voltage supplied from AC adapter. Mode: BN071-A12012U
Power Rating	I/P:100-240V~50/60Hz 0.4A O/P:12.0V $\approx$ 1.0A
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 Peak Output Power_Non Beamforming	IEEE 802.11n(HT20): 29.83 dBm (0.9616 W)
Maximum Peak Output Power_Beamforming	IEEE 802.11n(HT20): 29.12 dBm (0.8166 W)
Maximum Average Output Power_Non Beamforming	IEEE 802.11n(HT20): 19.38 dBm (0.08670 W)
Maximum Average Output Power_Beamforming	IEEE 802.11n(HT40): 18.78 dBm (0.0755 W)



Note:

1. 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)							
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		

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1		MW6 V2.0	PCB	N/A	3.85
2		MW6 V2.0	PCB	N/A	3.85

Note:

- This EUT supports CDD, and all antennas have the same gain, Directional gain =  $G_{ANT} + \text{Array Gain}$ . For power measurements, Array Gain=0dB ( $N_{ANT} \leq 4$ ), so the Directional gain=3.85. For power spectral density measurements,  $N_{ANT}=2$ ,  $N_{SS} = 1$ . So the Directional gain= $G_{ANT} + \text{Array Gain} = G_{ANT} + 10\log(N_{ANT}/N_{SS})\text{dBi} = 3.85 + 10\log(2/1)\text{dBi} = 6.86$ . Then, the power spectral density limit is  $8 - (6.86 - 6) = 7.14$ .
- Beamforming gain:3dB. Then, the Directional gain =  $3 + 3.85 = 6.85$ , so the output power limit is  $30 - (6.85 - 6) = 29.15$ .
- The antenna gain and beamforming gain are provided by the manufacturer.

4. Table for Antenna Configuration:  
For Non Beamforming:

Operating Mode	TX Mode	1TX	2TX
IEEE 802.11b		V (Ant. 2)	-
IEEE 802.11g		V (Ant. 2)	-
IEEE 802.11n(HT20)		-	V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)		-	V(Ant. 1 + Ant. 2)

For Beamforming:

Operating Mode	TX Mode	2TX
IEEE 802.11n(HT20)		V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)		V(Ant. 1 + Ant. 2)

## 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
Mode 5	TX N(HT20) Mode Channel 06

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 5	TX N(HT20) Mode Channel 06

<b>Radiated emissions test - Below 1GHz</b>	
Final Test Mode	Description
Mode 5	TX N(HT20) Mode Channel 06

<b>Radiated emissions test- Above 1GHz_Non Beamforming</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>Maximun Output Power test_Non Beamforming</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>Maximun Output Power test_Beamforming</b>	
<b>Final Test Mode</b>	<b>Description</b>
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09

<b>Other Conducted test_Non Beamforming</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(HT20) Mode Channel 06 is found to be the worst case and recorded.
- (3) For radiated emission above 1 GHz test, the spurious points of 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.
- (4) The measurements for Output Power are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.
- (5) For radiated emissions, the TX WLAN 2.4G B Mode 2412MHz + WLAN 5G AC(VHT40) Mode 5190MHz was found the worst case of simultaneous transmission and recorded.

### 2.3 PARAMETERS OF TEST SOFTWARE

#### Non Beamforming

Test Software Version	MP_TEST 1.3.8.0		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	67	67	67
IEEE 802.11g	67	67	67
IEEE 802.11n(HT20)	73/63	76/67	74/67
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	67/55	75/65	75/67

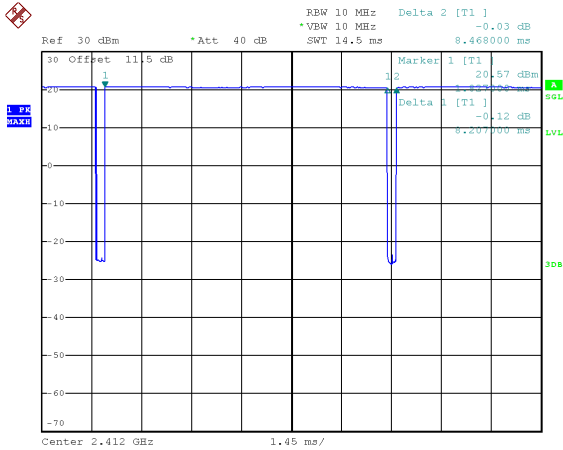
#### Beamforming

Test Software Version	MP_TEST 1.3.8.0		
Frequency (MHz)	2412	2437	2462
IEEE 802.11n(HT20)	68/58	73/64	73/65
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	65/51	75/65	75/67

## 2.4 DUTY CYCLE

If duty cycle is  $\geq 98\%$ , duty factor is not required.  
 If duty cycle is  $< 98\%$ , duty factor shall be considered.  
 The output power = measured power + duty factor.

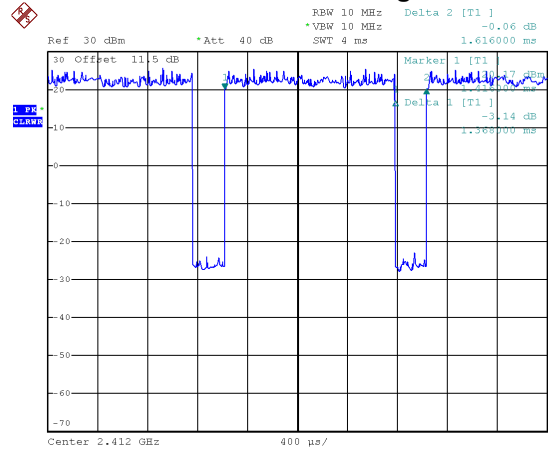
**IEEE 802.11b**



Date: 2.DEC.2021 21:17:48

Duty cycle =  $8.207 \text{ ms} / 8.468 \text{ ms} = 96.92\%$   
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.14$

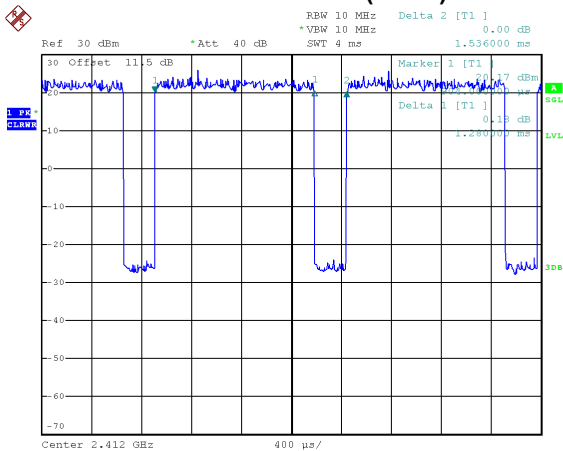
**IEEE 802.11g**



Date: 2.DEC.2021 21:18:01

Duty cycle =  $1.368 \text{ ms} / 1.616 \text{ ms} = 84.65\%$   
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.72$

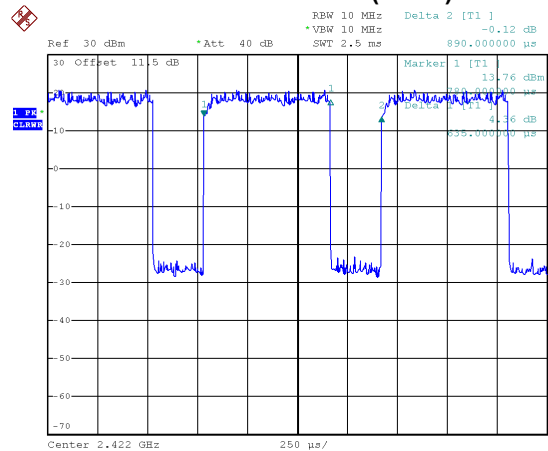
**IEEE 802.11n(HT20)**



Date: 2.DEC.2021 21:18:15

Duty cycle =  $1.280 \text{ ms} / 1.536 \text{ ms} = 83.33\%$   
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.79$

**IEEE 802.11n(HT40)**



Date: 2.DEC.2021 21:18:30

Duty cycle =  $0.635 \text{ ms} / 0.890 \text{ ms} = 71.35\%$   
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 1.47$

**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 122 Hz.

For IEEE 802.11g:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 731 Hz.

For IEEE 802.11n(HT20):

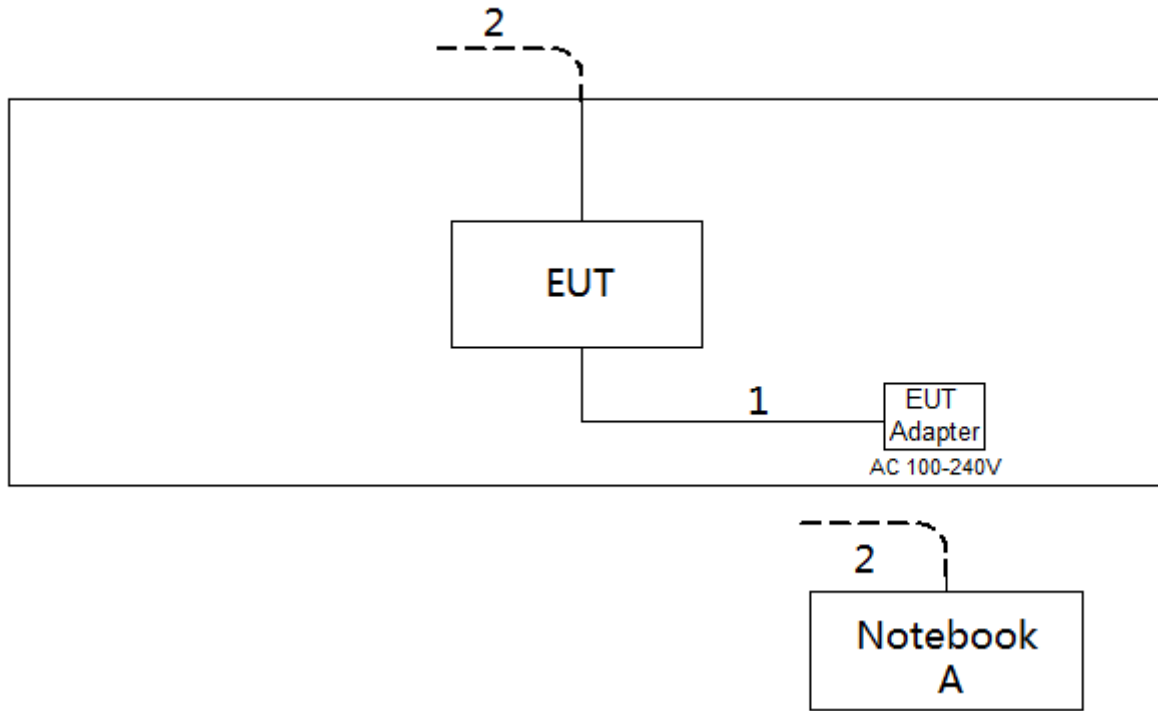
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 781 Hz.

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 1575 Hz.



## 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	DC Cable	NO	NO	1.5m
2	RJ45 Cable	NO	NO	10m

### 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.

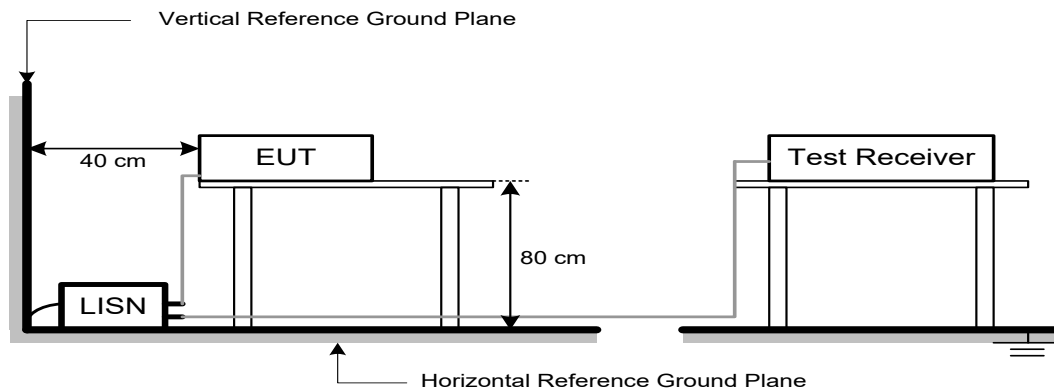
The following table is the setting of the receiver:

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) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)  
 Margin Level = Measurement Value - Limit Value

## 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

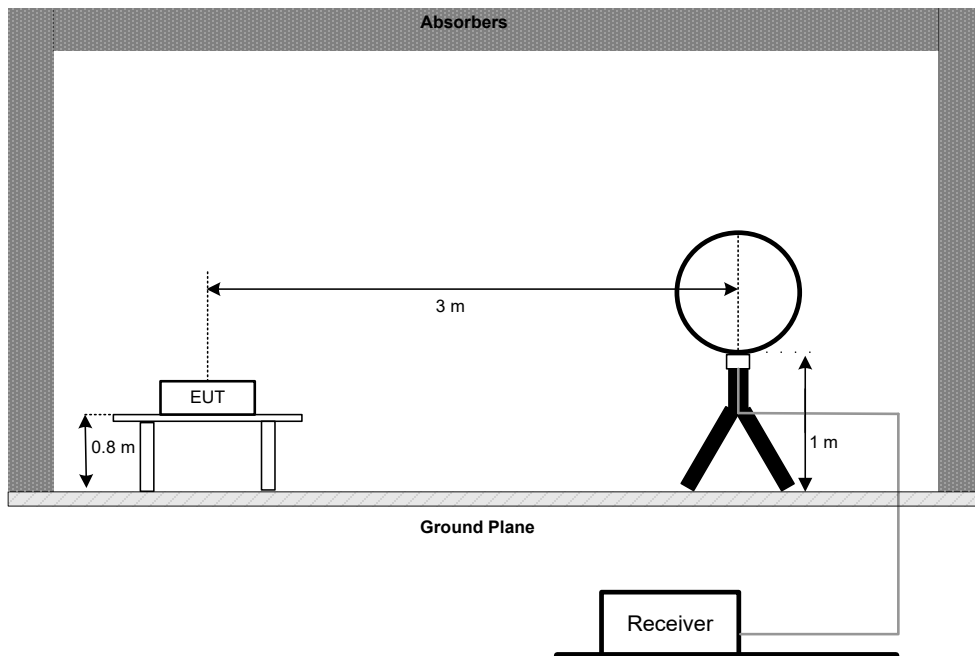
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

### 4.3 DEVIATION FROM TEST STANDARD

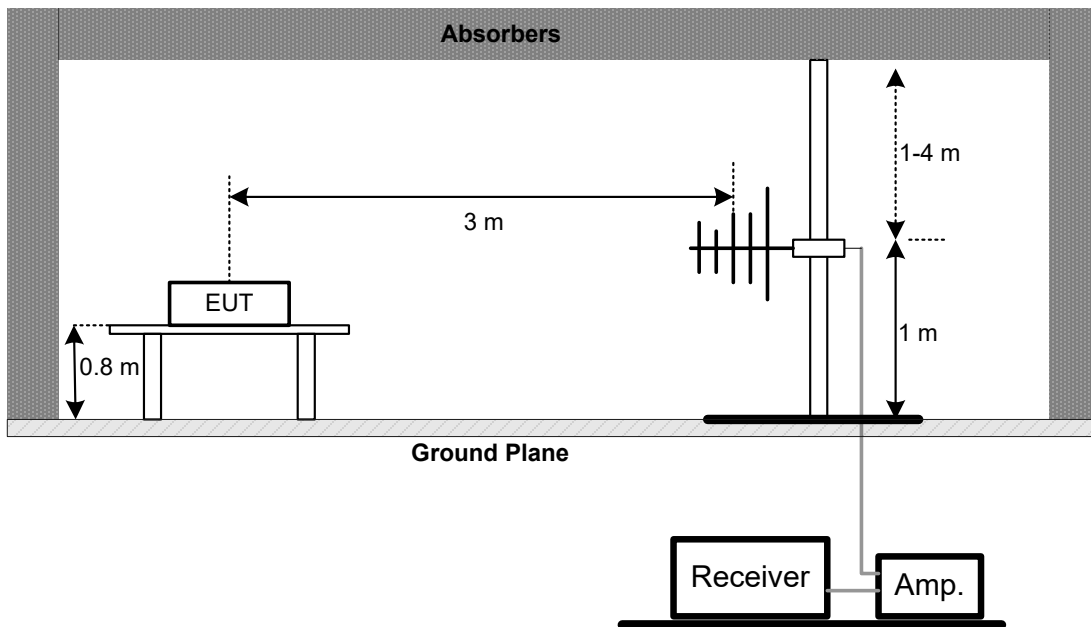
No deviation.

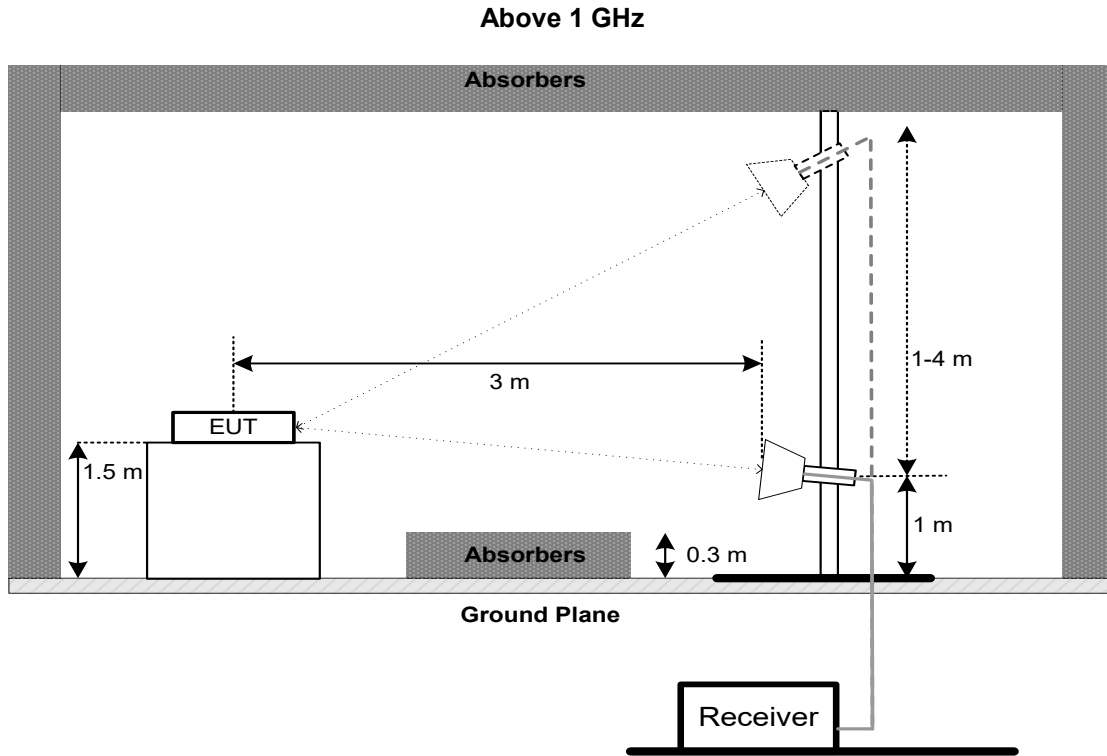
### 4.4 TEST SETUP

#### 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

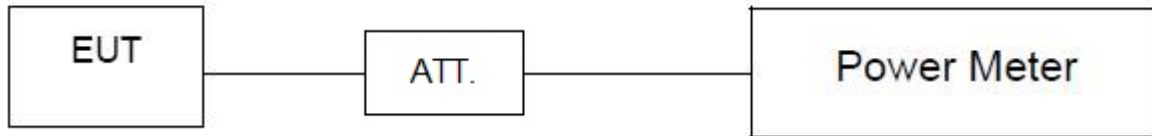
### 6.2 TEST PROCEDURE

- 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 and 11.9.2.3.1 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

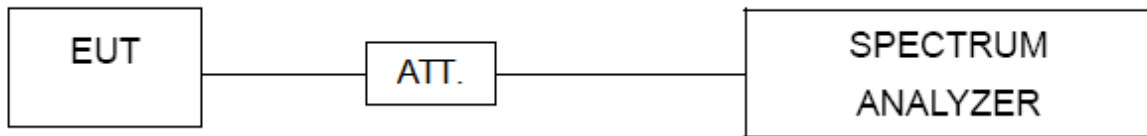
- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
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	EMI Test Receiver	R&S	ESCI	100382	Feb. 28, 2022
2	LISN	EMCO	3816/2	52765	Feb. 27, 2022
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Feb. 27, 2022
4	50Ω Terminator	SHX	TF5-3	15041305	Feb. 27, 2022
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 09, 2022
7	643 Shield Room	ETS	6*4*3	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	MXE EMI Receiver	Keysight	N9038A	MY56400091	Feb. 27, 2022
2*	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 23, 2024
3	Cable	N/A	RG 213/U(9kHz~1GHz)	N/A	May 27, 2022
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	966 Chamber Room	ETS	9*6*6	N/A	Jul. 17, 2022

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. 15, 2022
2	Amplifier	HP	8447D	2944A08742	Feb. 28, 2022
3	Cable	emci	LMR-400	N/A	May 20, 2022
4	Controller	CT	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Receiver	Agilent	N9038A	MY52130039	Mar. 19, 2022
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022

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. 21, 2022
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2022
3	Amplifier	Agilent	8449B	3008A02584	Jul. 10, 2022
4	Controller	CT	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Receiver	Agilent	N9038A	MY52130039	Mar. 19, 2022
7	EXA Spectrum Analyzer	Keysight	N9010A	MY56480488	Feb. 28, 2022
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330-K	619413	Jul. 16, 2022
9	Cable	N/A	A81-SMAMSMAM-12.5M	N/A	Oct. 15, 2022
10	Cable	Talent microwave	A40-2.92M2.92M-2.5M	N/A	Nov. 29, 2021 Nov. 30, 2022
11	Filter	STI	STI15-9912	N/A	Jul. 10, 2022
12	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
13	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022

Bandwidth & Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Jul. 10, 2022
2	Attenuator	WOKEN	6SM3502	VAS1214NL	Feb. 07, 2022
3	RF Cable	Tongkaichuan	N/A	N/A	N/A
4	DC Block	Mini	N/A	N/A	N/A

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Jul. 10, 2022
2	Wideband power sensor	Keysight	N1923A	MY58310004	Jul. 10, 2022
3	Attenuator	WOKEN	6SM3502	VAS1214NL	Feb. 07, 2022
4	RF Cable	Tongkaichuan	N/A	N/A	N/A

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

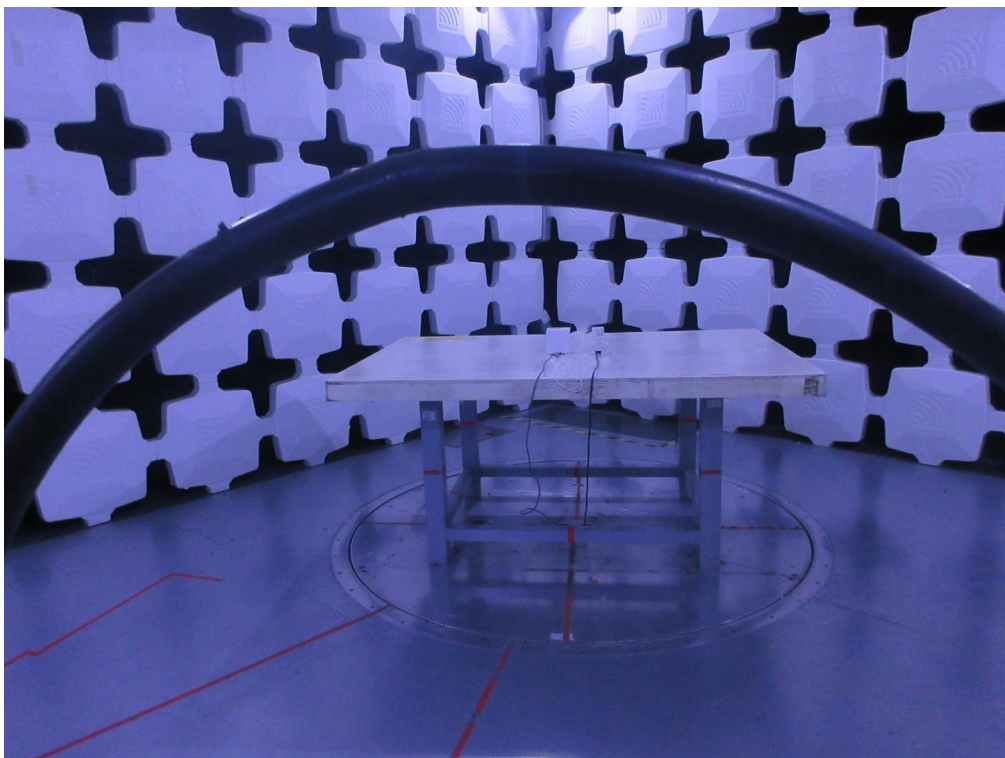
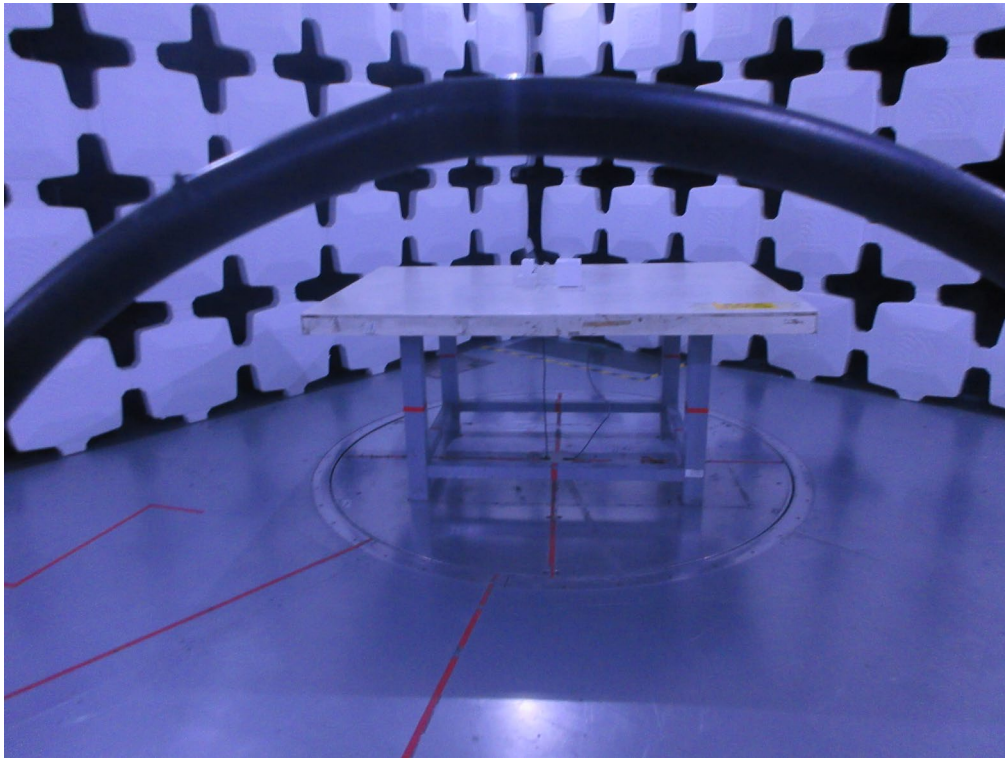
"\*\*" calibration period of equipment list is three year.

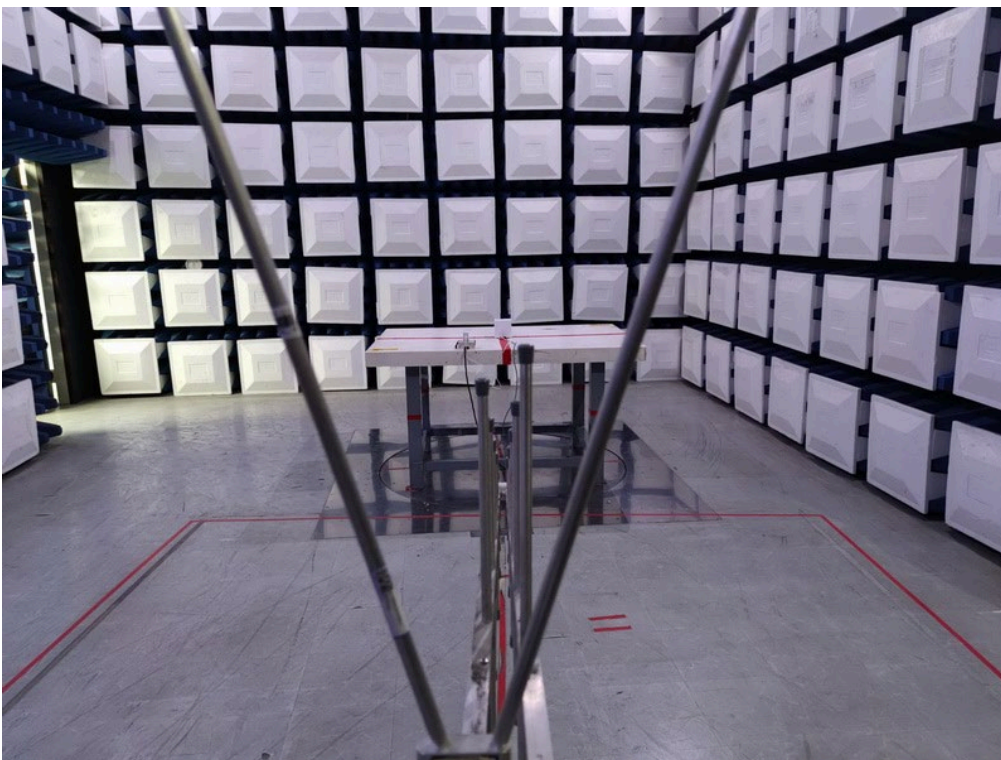
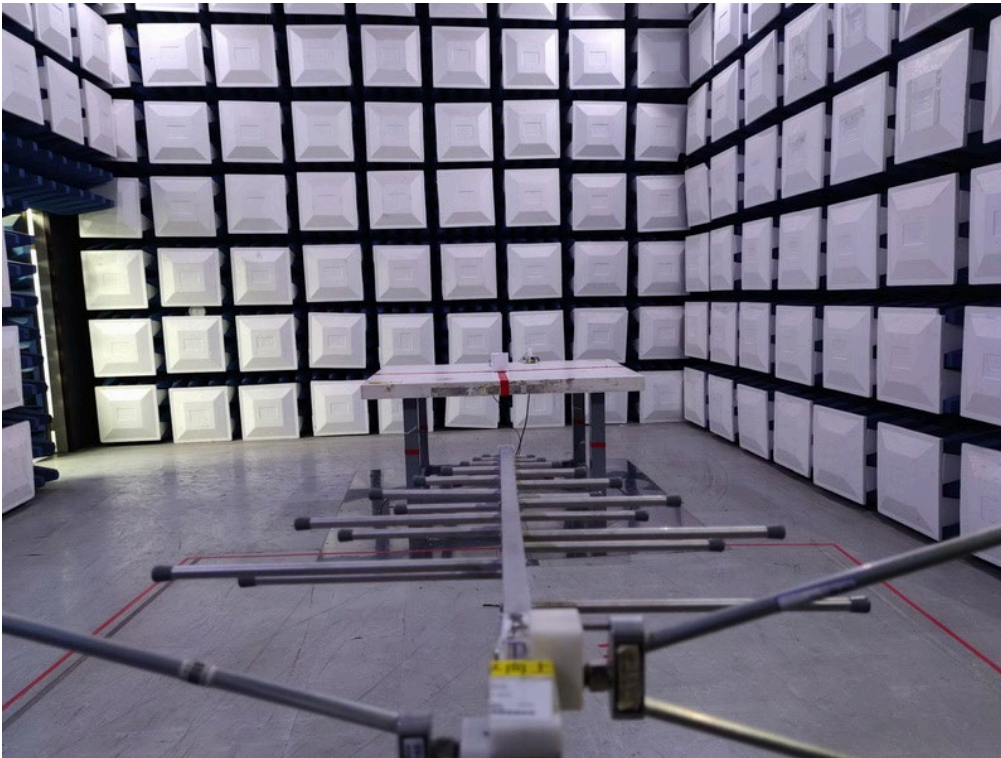
Except \* item, all calibration period of equipment list is one year.

**10. EUT TEST PHOTO**

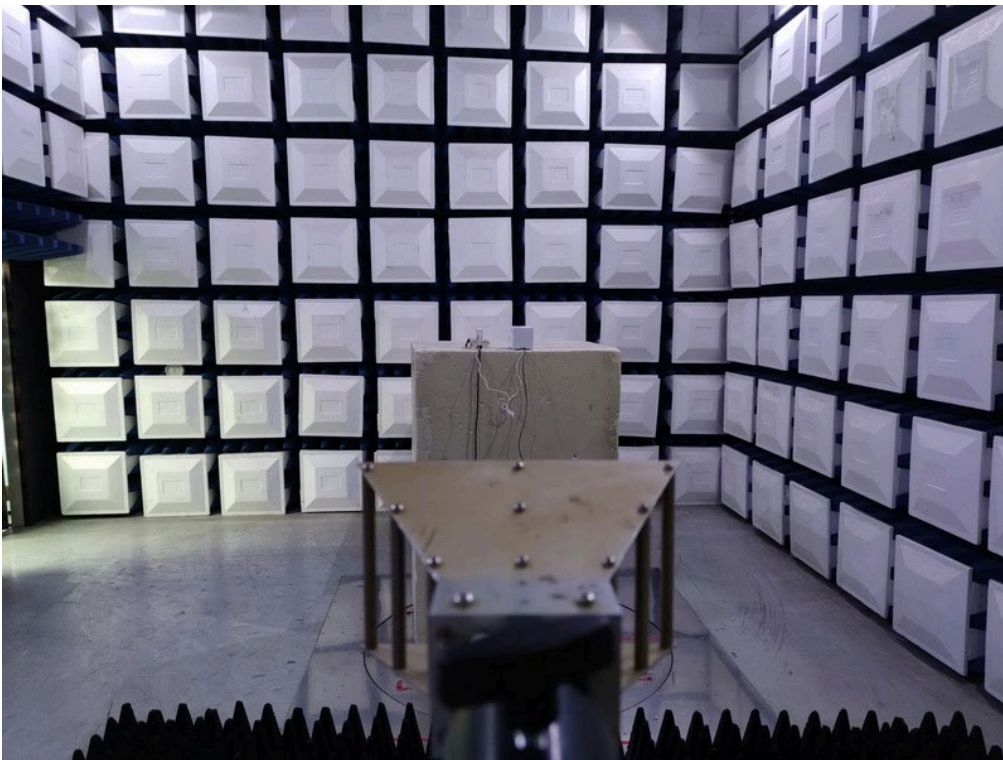
**AC Power Line Conducted Emissions Test Photos**



**Radiated Emissions Test Photos****9 kHz to 30 MHz**

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



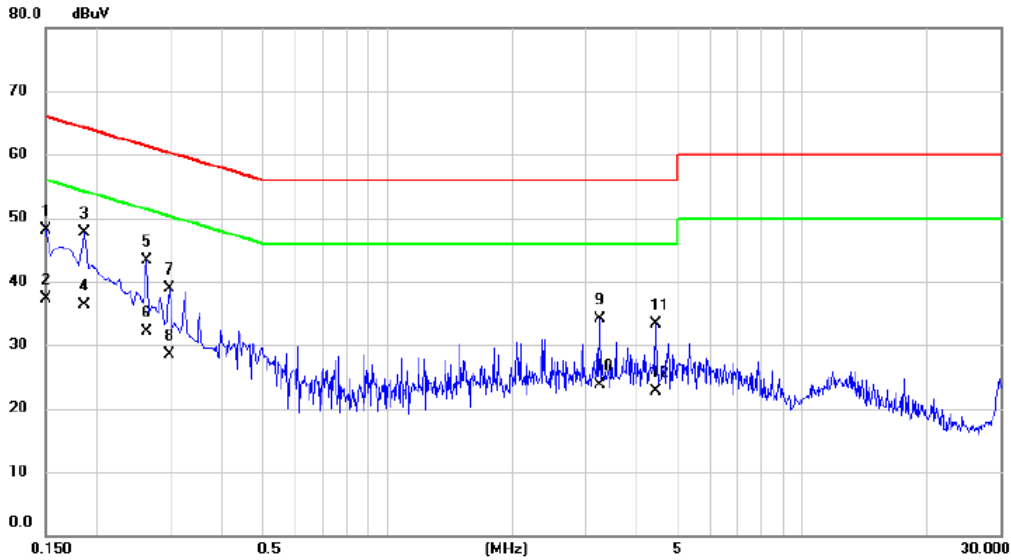
**Radiated Emissions Test Photos****1 GHz to 18 GHz**

### Conducted Test Photos



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

Test Voltage	AC 120V/60Hz		
Test Mode	TX N(HT20) Mode Channel 06	Phase	Line

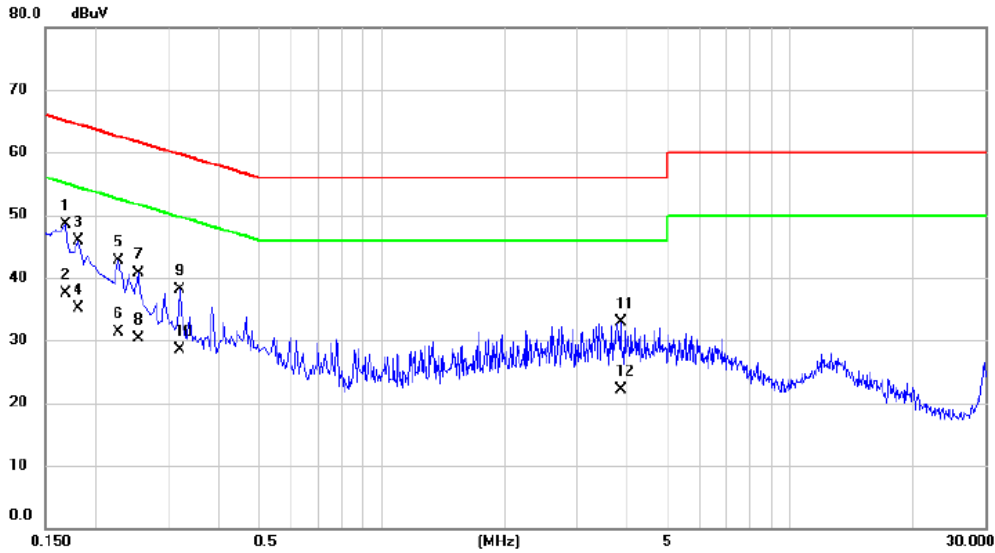


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBUv	Margin dB	Detector	Comment
1		0.1500	38.24	9.78	48.02	66.00	-17.98	QP	
2		0.1500	27.60	9.78	37.38	56.00	-18.62	AVG	
3	*	0.1860	37.95	9.80	47.75	64.21	-16.46	QP	
4		0.1860	26.50	9.80	36.30	54.21	-17.91	AVG	
5		0.2625	33.41	9.82	43.23	61.35	-18.12	QP	
6		0.2625	22.30	9.82	32.12	51.35	-19.23	AVG	
7		0.2985	29.01	9.83	38.84	60.28	-21.44	QP	
8		0.2985	18.60	9.83	28.43	50.28	-21.85	AVG	
9		3.2550	23.90	10.21	34.11	56.00	-21.89	QP	
10		3.2550	13.40	10.21	23.61	46.00	-22.39	AVG	
11		4.4520	23.04	10.27	33.31	56.00	-22.69	QP	
12		4.4520	12.50	10.27	22.77	46.00	-23.23	AVG	

**REMARKS:**

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

Test Voltage	AC 120V/60Hz		
Test Mode	TX N(HT20) Mode Channel 06	Phase	Neutral

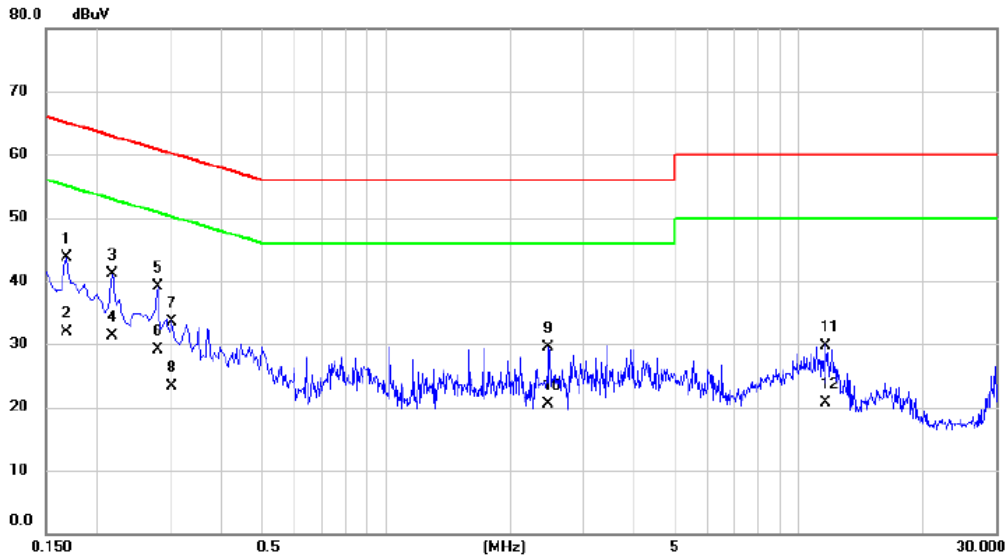


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1680	38.68	9.84	48.52	65.06	-16.54	QP	
2		0.1680	27.60	9.84	37.44	55.06	-17.62	AVG	
3		0.1815	35.99	9.84	45.83	64.42	-18.59	QP	
4		0.1815	25.30	9.84	35.14	54.42	-19.28	AVG	
5		0.2265	32.80	9.86	42.66	62.58	-19.92	QP	
6		0.2265	21.40	9.86	31.26	52.58	-21.32	AVG	
7		0.2535	30.88	9.86	40.74	61.64	-20.90	QP	
8		0.2535	20.50	9.86	30.36	51.64	-21.28	AVG	
9		0.3210	28.22	9.89	38.11	59.68	-21.57	QP	
10		0.3210	18.60	9.89	28.49	49.68	-21.19	AVG	
11		3.8535	22.50	10.31	32.81	56.00	-23.19	QP	
12		3.8535	11.70	10.31	22.01	46.00	-23.99	AVG	

**REMARKS:**

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

Test Voltage	AC 240V/50Hz		
Test Mode	TX N(HT20) Mode Channel 06	Phase	Line

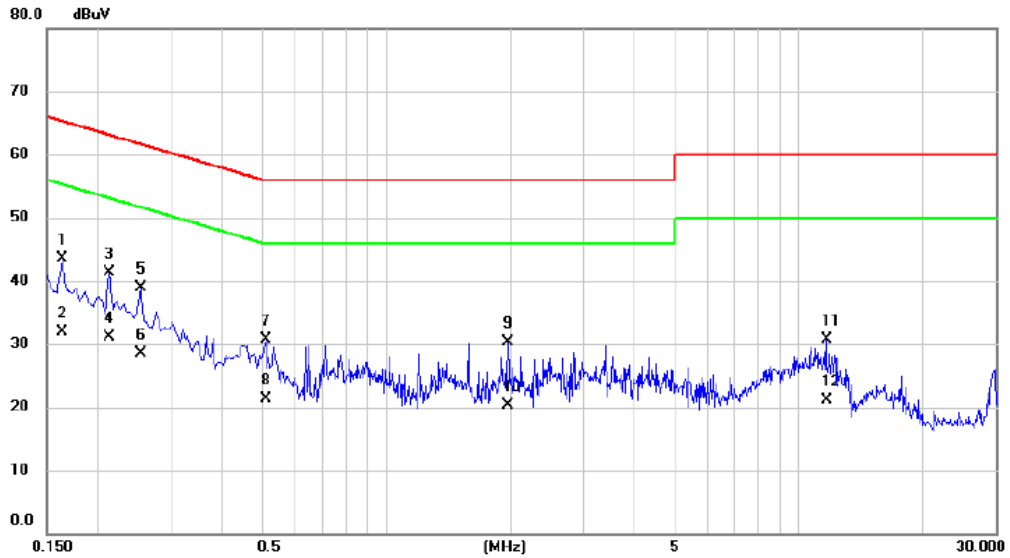


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1680	33.94	9.79	43.73	65.06	-21.33	QP	
2		0.1680	22.10	9.79	31.89	55.06	-23.17	AVG	
3		0.2175	31.31	9.82	41.13	62.91	-21.78	QP	
4		0.2175	21.40	9.82	31.22	52.91	-21.69	AVG	
5		0.2805	29.35	9.83	39.18	60.80	-21.62	QP	
6		0.2805	19.30	9.83	29.13	50.80	-21.67	AVG	
7		0.3035	23.61	9.83	33.44	60.15	-26.71	QP	
8		0.3035	13.50	9.83	23.33	50.15	-26.82	AVG	
9		2.4765	19.24	10.17	29.41	56.00	-26.59	QP	
10		2.4765	10.40	10.17	20.57	46.00	-25.43	AVG	
11		11.6205	19.35	10.45	29.80	60.00	-30.20	QP	
12		11.6205	10.20	10.45	20.65	50.00	-29.35	AVG	

**REMARKS:**

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

Test Voltage	AC 240V/50Hz		
Test Mode	TX N(HT20) Mode Channel 06	Phase	Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1635	33.70	9.84	43.54	65.28	-21.74	QP	
2		0.1635	22.10	9.84	31.94	55.28	-23.34	AVG	
3		0.2130	31.48	9.85	41.33	63.09	-21.76	QP	
4		0.2130	21.30	9.85	31.15	53.09	-21.94	AVG	
5		0.2535	29.08	9.86	38.94	61.64	-22.70	QP	
6		0.2535	18.70	9.86	28.56	51.64	-23.08	AVG	
7		0.5100	20.78	9.94	30.72	56.00	-25.28	QP	
8		0.5100	11.40	9.94	21.34	46.00	-24.66	AVG	
9		1.9635	20.10	10.22	30.32	56.00	-25.68	QP	
10		1.9635	10.10	10.22	20.32	46.00	-25.68	AVG	
11		11.6745	20.16	10.53	30.69	60.00	-29.31	QP	
12		11.6745	10.50	10.53	21.03	50.00	-28.97	AVG	

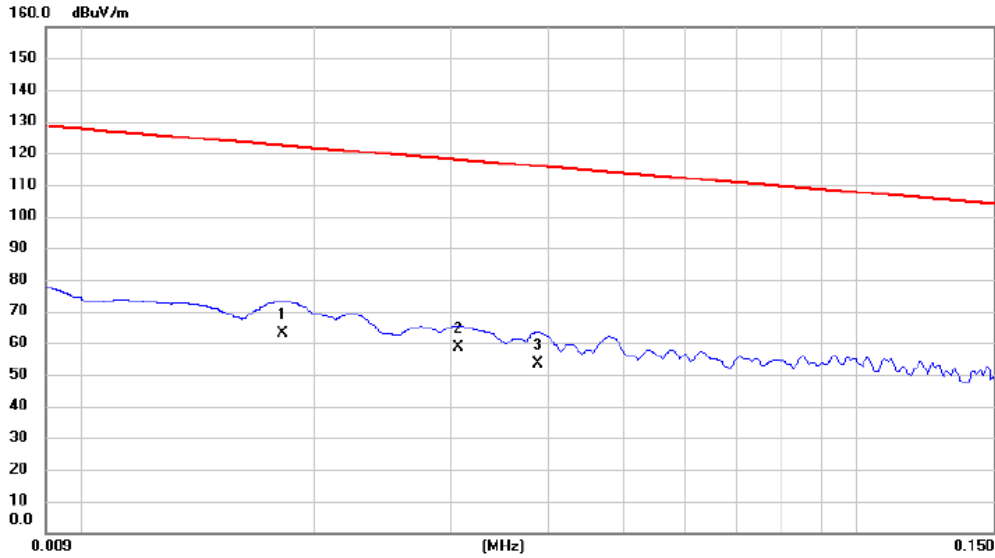
**REMARKS:**

- (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 N(HT20) Mode Channel 06	Polarization	Ant 0°
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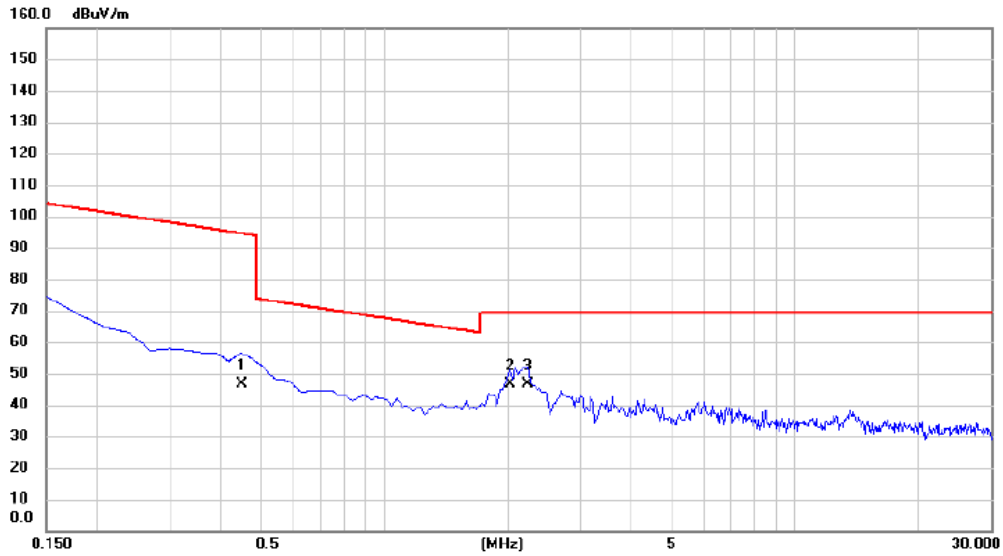


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	0.0182	49.32	13.66	62.98	122.40	-59.42	AVG			
2 *	0.0306	45.96	12.82	58.78	117.89	-59.11	AVG			
3	0.0388	40.62	12.60	53.22	115.83	-62.61	AVG			

**REMARKS:**

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 0°
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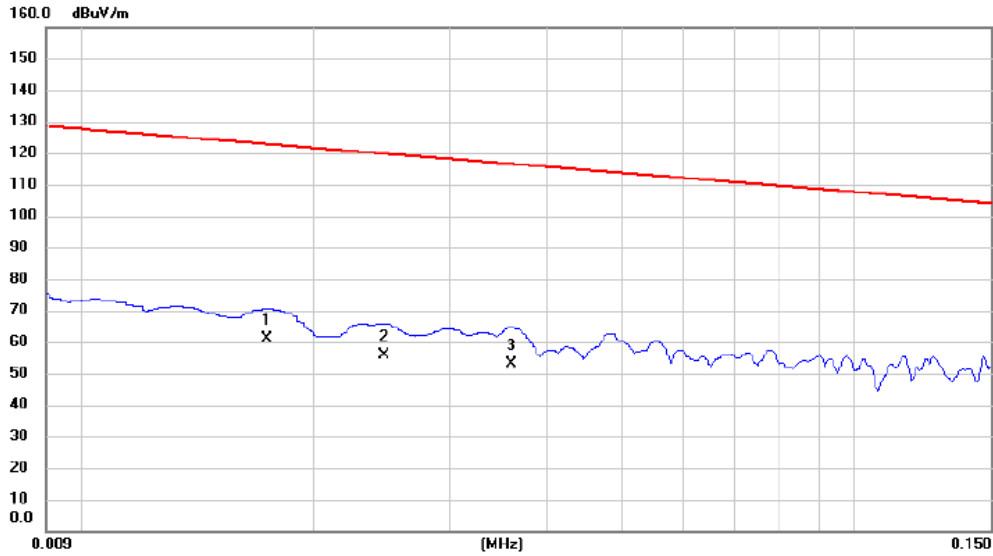


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	0.4485	34.62	11.93	46.55	94.57	-48.02	AVG			
2	2.0305	35.29	11.13	46.42	69.54	-23.12	QP			
3 *	2.2395	35.61	11.01	46.62	69.54	-22.92	QP			

**REMARKS:**

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 90°
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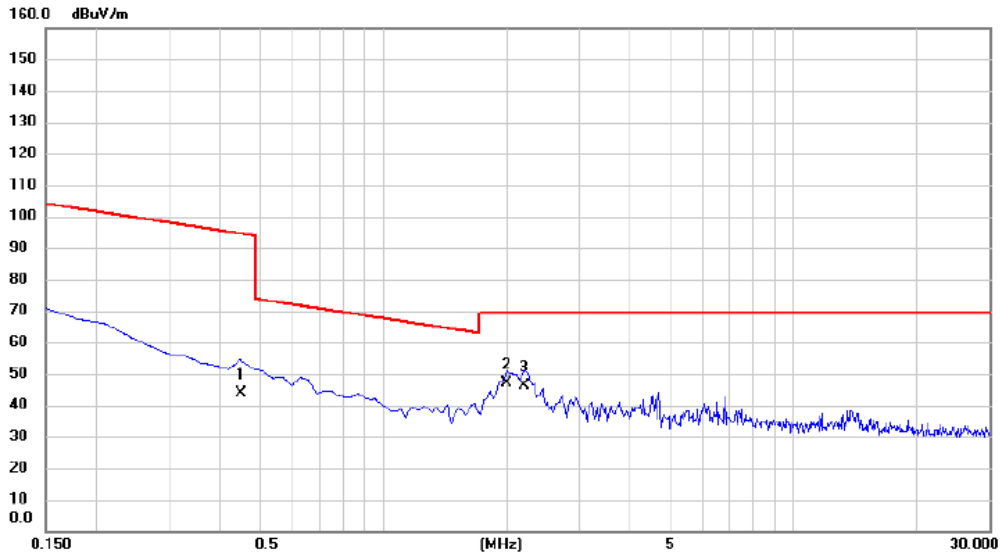


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	0.0174	46.95	13.91	60.86	122.79	-61.93	AVG		
2		0.0246	42.96	12.98	55.94	119.79	-63.85	AVG		
3		0.0360	40.36	12.67	53.03	116.48	-63.45	AVG		

**REMARKS:**

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 90°
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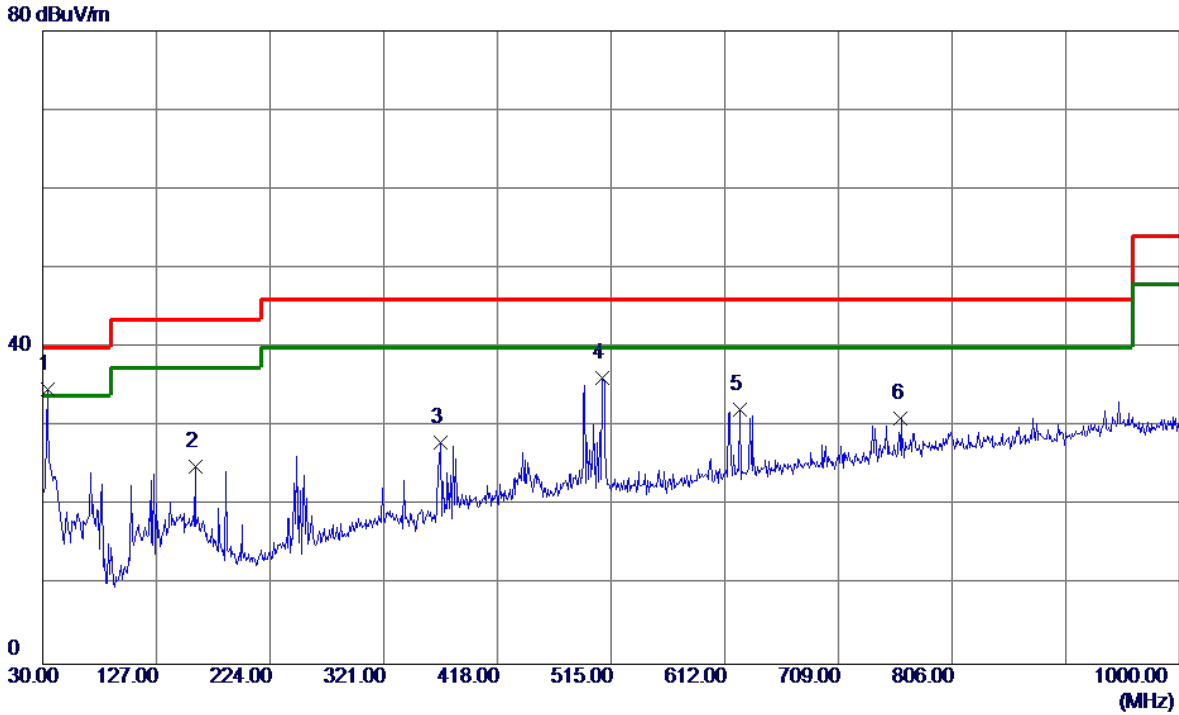
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	0.4485	31.96	11.93	43.89	94.57	-50.68	AVG			
2 *	2.0007	35.94	11.15	47.09	69.54	-22.45	QP			
3	2.2096	35.29	11.02	46.31	69.54	-23.23	QP			

**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 N(HT20) Mode Channel 06	Polarization	Vertical
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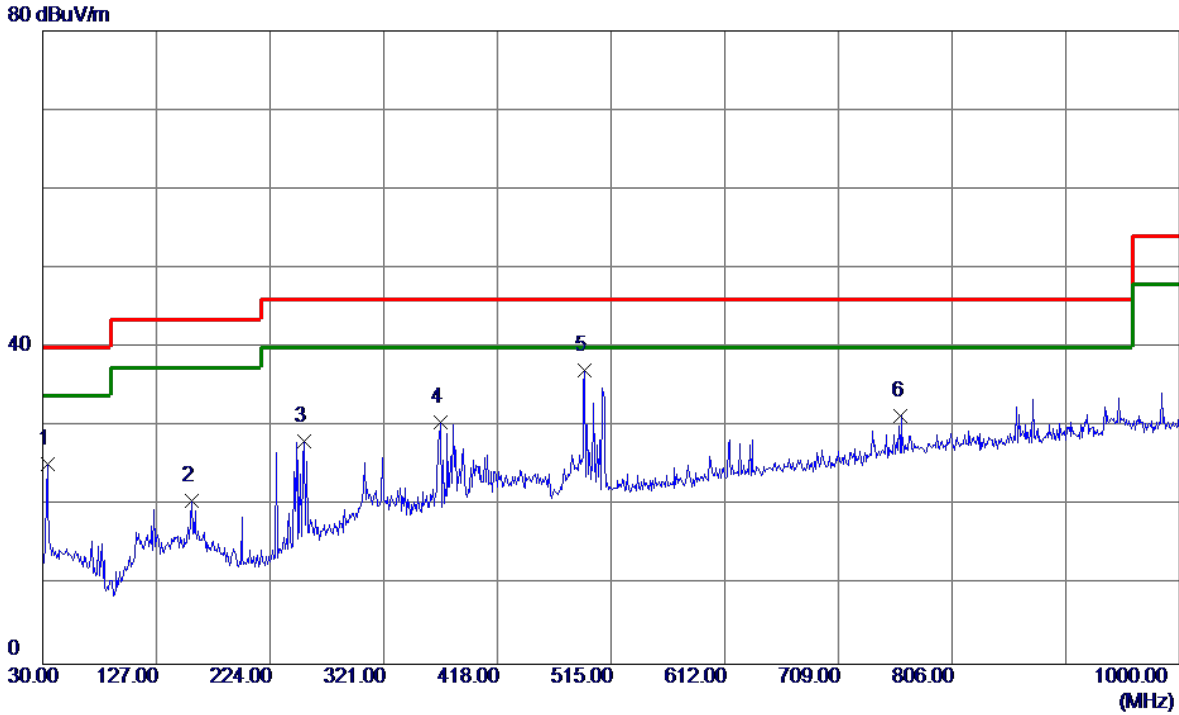


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	33.8800	49.72	-15.04	34.68	40.00	-5.32	Peak	
2	159.9800	37.36	-12.44	24.92	43.50	-18.58	Peak	
3	369.5000	37.61	-9.65	27.96	46.00	-18.04	Peak	
4	507.2400	42.90	-6.69	36.21	46.00	-9.79	Peak	
5	624.6100	36.60	-4.43	32.17	46.00	-13.83	Peak	
6	762.3500	32.82	-1.81	31.01	46.00	-14.99	Peak	

REMARKS:

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

Test Mode	TX N(HT20) 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	33.8800	40.38	-15.04	25.34	40.00	-14.66	Peak	
2	157.0700	33.22	-12.51	20.71	43.50	-22.79	Peak	
3	253.1000	41.02	-12.91	28.11	46.00	-17.89	Peak	
4	369.5000	40.15	-9.65	30.50	46.00	-15.50	Peak	
5 *	492.6900	44.05	-6.90	37.15	46.00	-8.85	Peak	
6	762.3500	33.14	-1.81	31.33	46.00	-14.67	Peak	

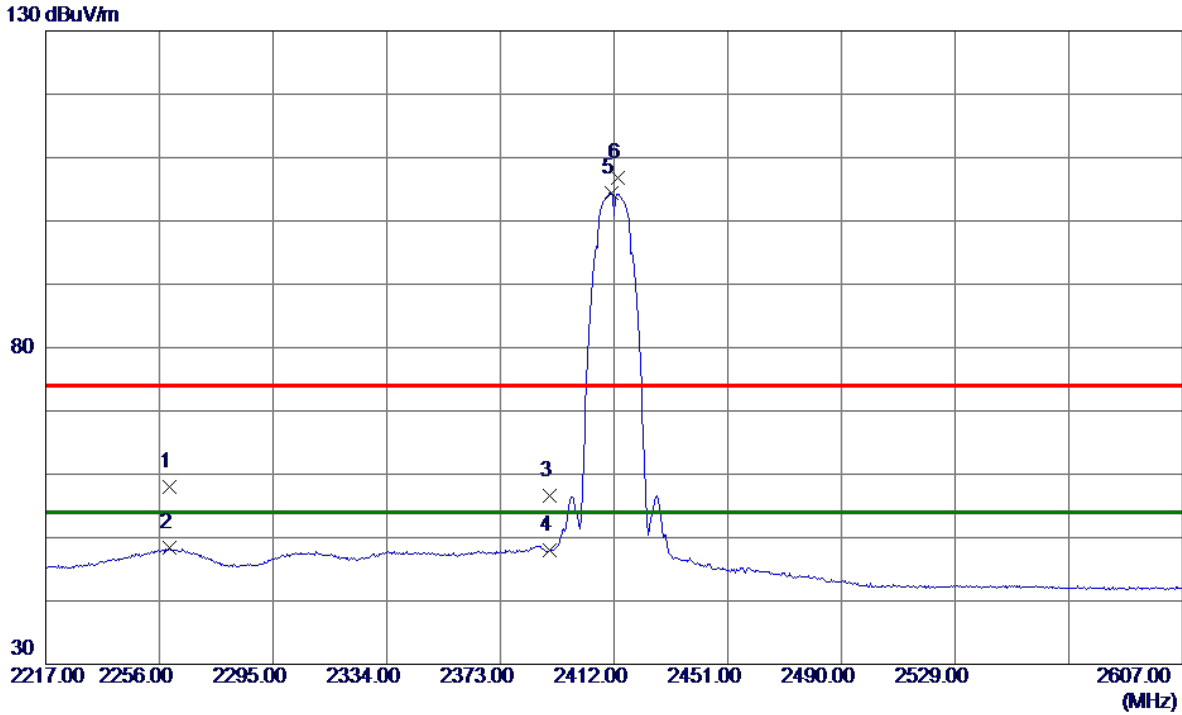
**REMARKS:**

- (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	Polarization	Vertical
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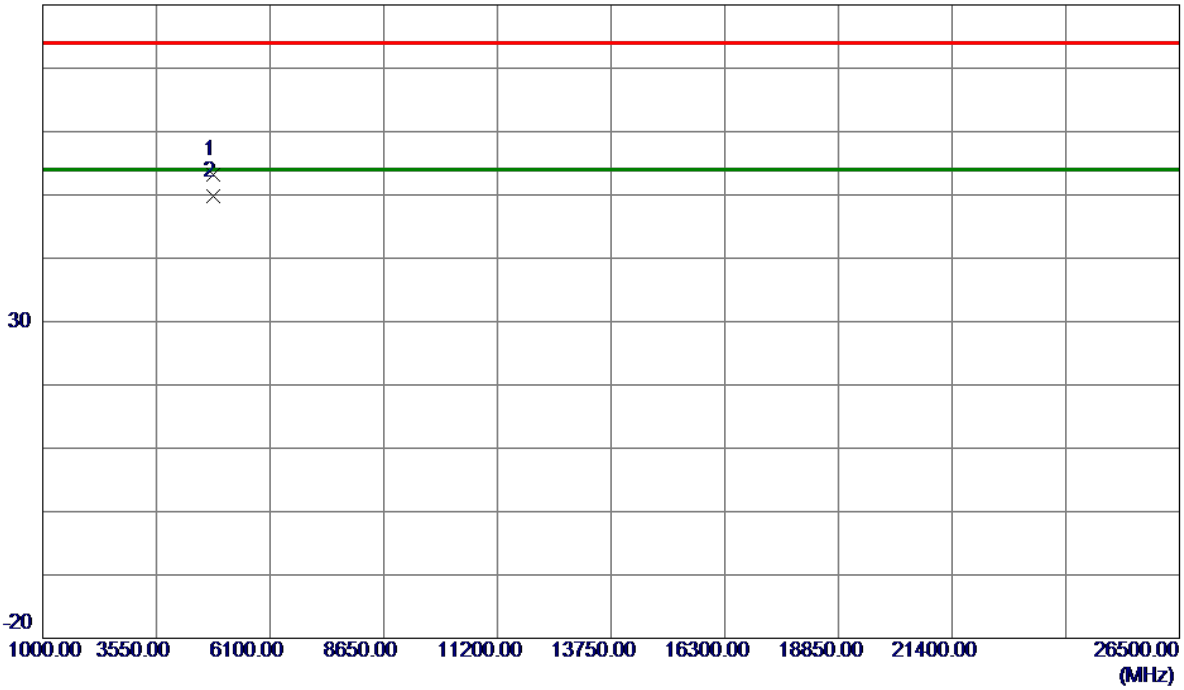
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2259.5100	49.85	8.14	57.99	74.00	-16.01	Peak	
2	2259.5100	40.20	8.14	48.34	54.00	-5.66	AVG	
3	2390.0000	48.22	8.31	56.53	74.00	-17.47	Peak	
4	2390.0000	39.65	8.31	47.96	54.00	-6.04	AVG	
5 *	2411.2200	96.11	8.33	104.44	54.00	50.44	AVG	No Limit
6	2413.1700	98.51	8.33	106.84	74.00	32.84	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	Polarization	Vertical
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80 dBuV/m

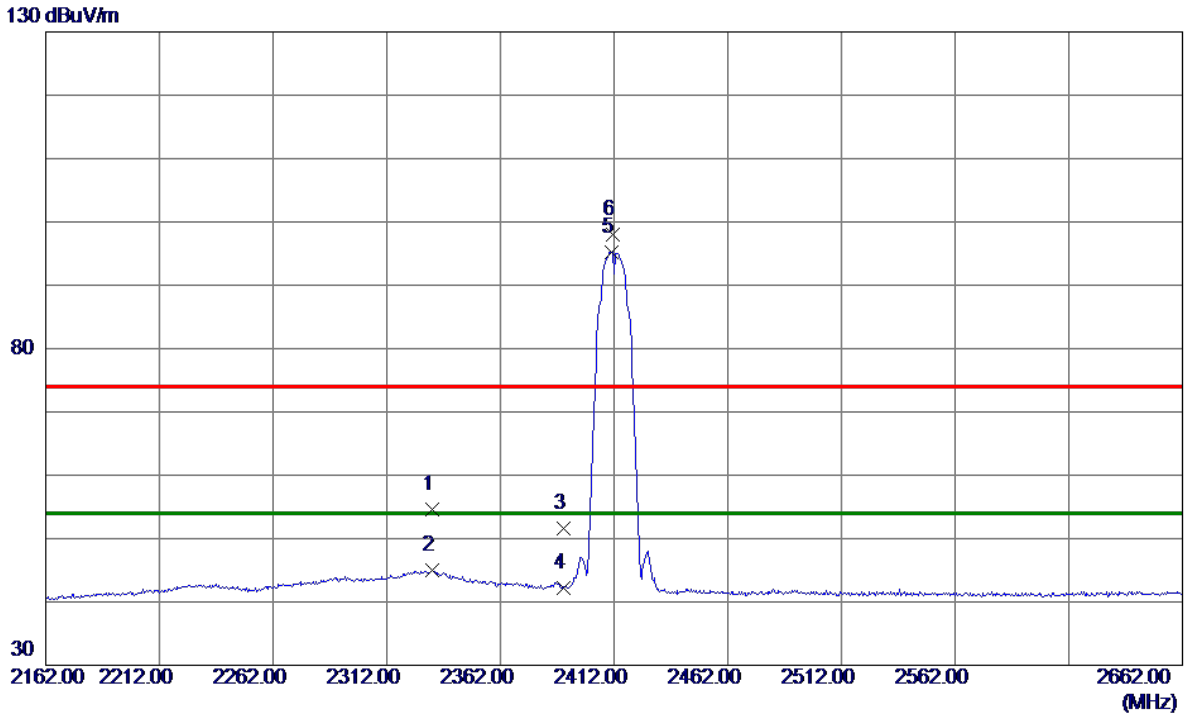


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.8630	47.88	5.23	53.11	74.00	-20.89	Peak	
2 *	4824.0080	44.55	5.23	49.78	54.00	-4.22	AVG	

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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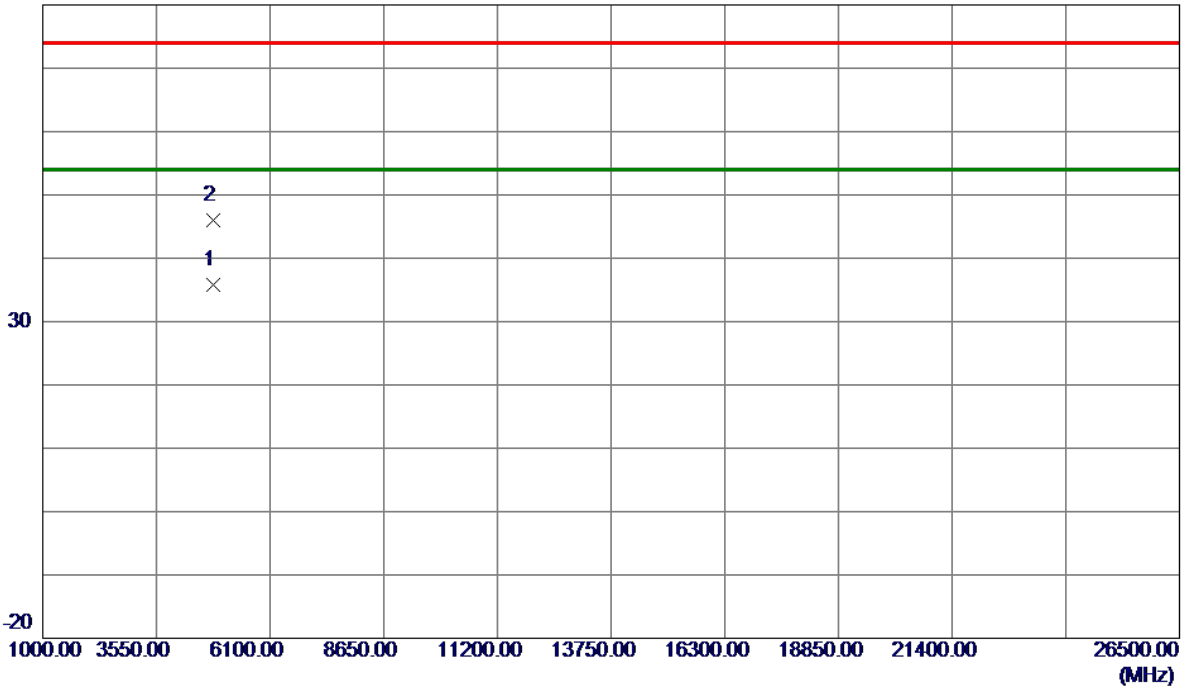
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2332.0000	46.43	8.23	54.66	74.00	-19.34	Peak	
2	2332.0000	36.72	8.23	44.95	54.00	-9.05	AVG	
3	2390.0000	43.23	8.31	51.54	74.00	-22.46	Peak	
4	2390.0000	33.83	8.31	42.14	54.00	-11.86	AVG	
5 *	2411.0000	86.88	8.33	95.21	54.00	41.21	AVG	No Limit
6	2411.5000	89.69	8.33	98.02	74.00	24.02	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	Polarization	Horizontal
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80 dBuV/m

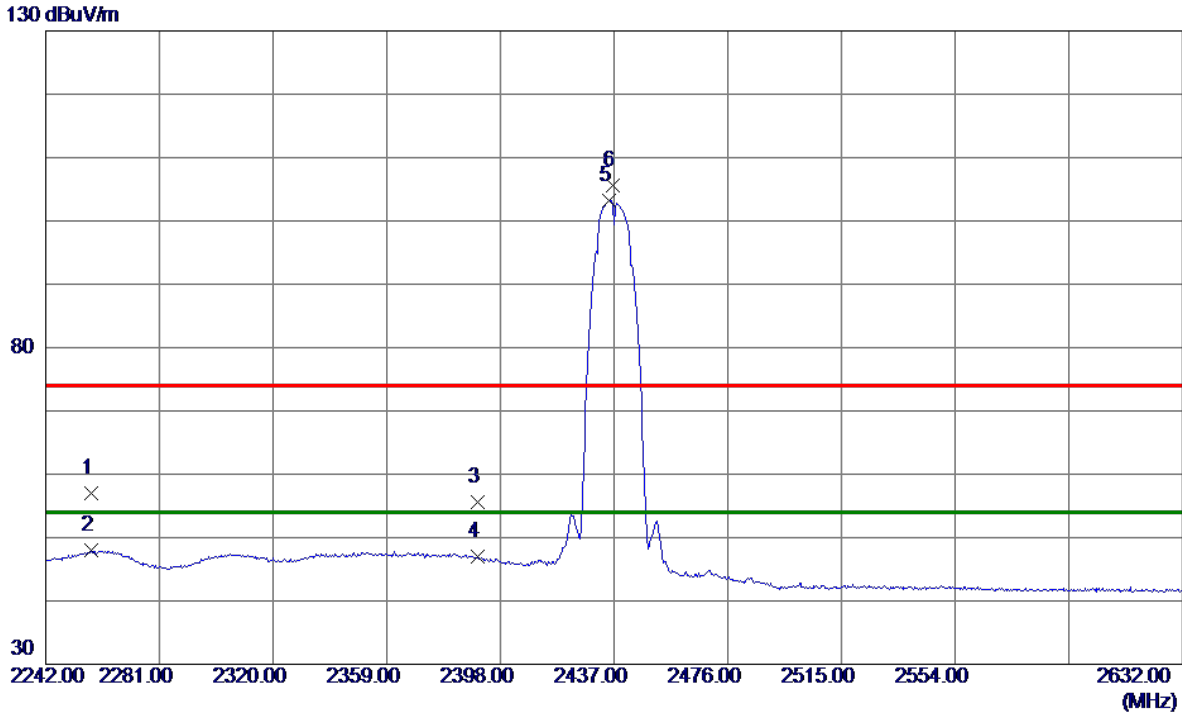


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.8610	30.59	5.23	35.82	54.00	-18.18	AVG	
2	4824.2590	40.84	5.23	46.07	74.00	-27.93	Peak	

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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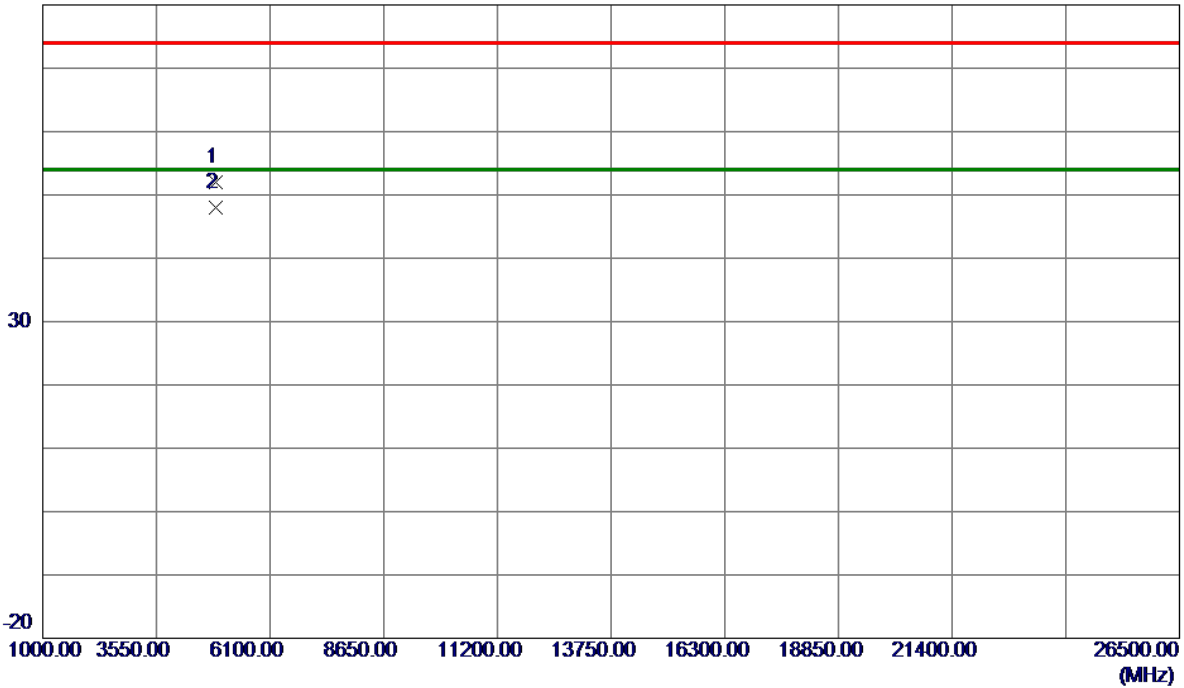
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2257.6000	48.79	8.14	56.93	74.00	-17.07	Peak	
2	2257.6000	39.77	8.14	47.91	54.00	-6.09	AVG	
3	2390.0000	47.29	8.31	55.60	74.00	-18.40	Peak	
4	2390.0000	38.73	8.31	47.04	54.00	-6.96	AVG	
5 *	2435.4400	94.86	8.36	103.22	54.00	49.22	AVG	No Limit
6	2436.6100	97.17	8.36	105.53	74.00	31.53	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	Polarization	Vertical
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80 dBuV/m

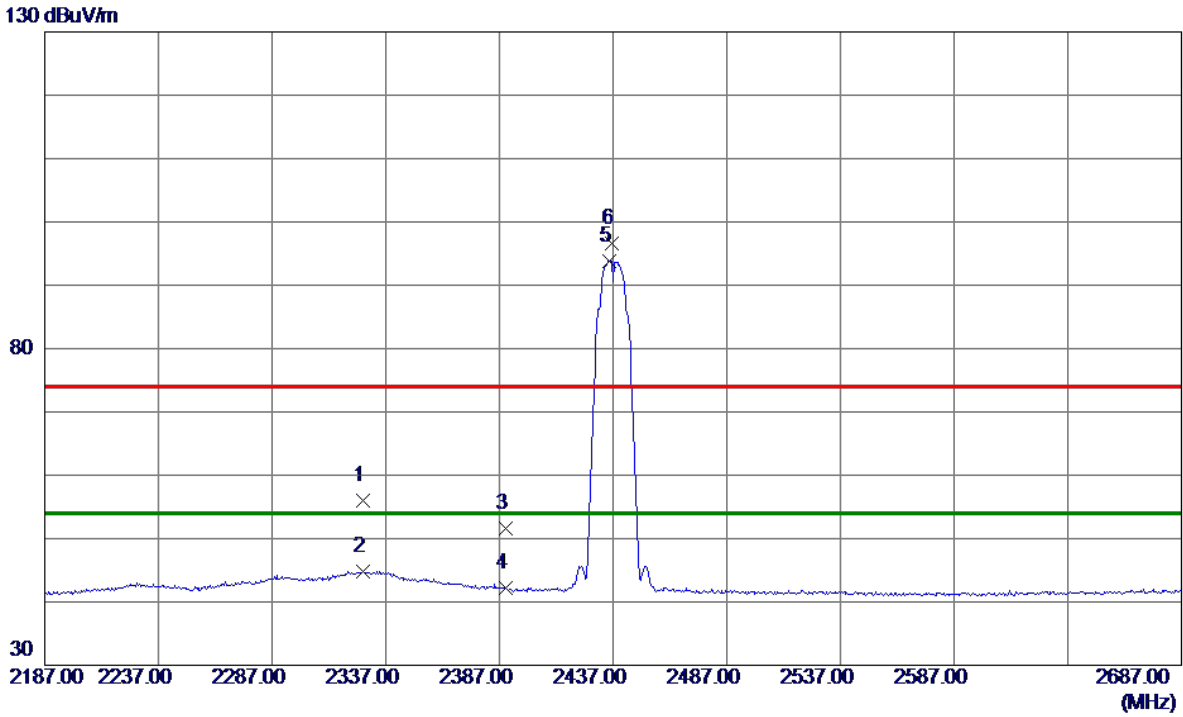


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.8300	46.57	5.48	52.05	74.00	-21.95	Peak	
2 *	4873.9670	42.46	5.48	47.94	54.00	-6.06	AVG	

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Horizontal
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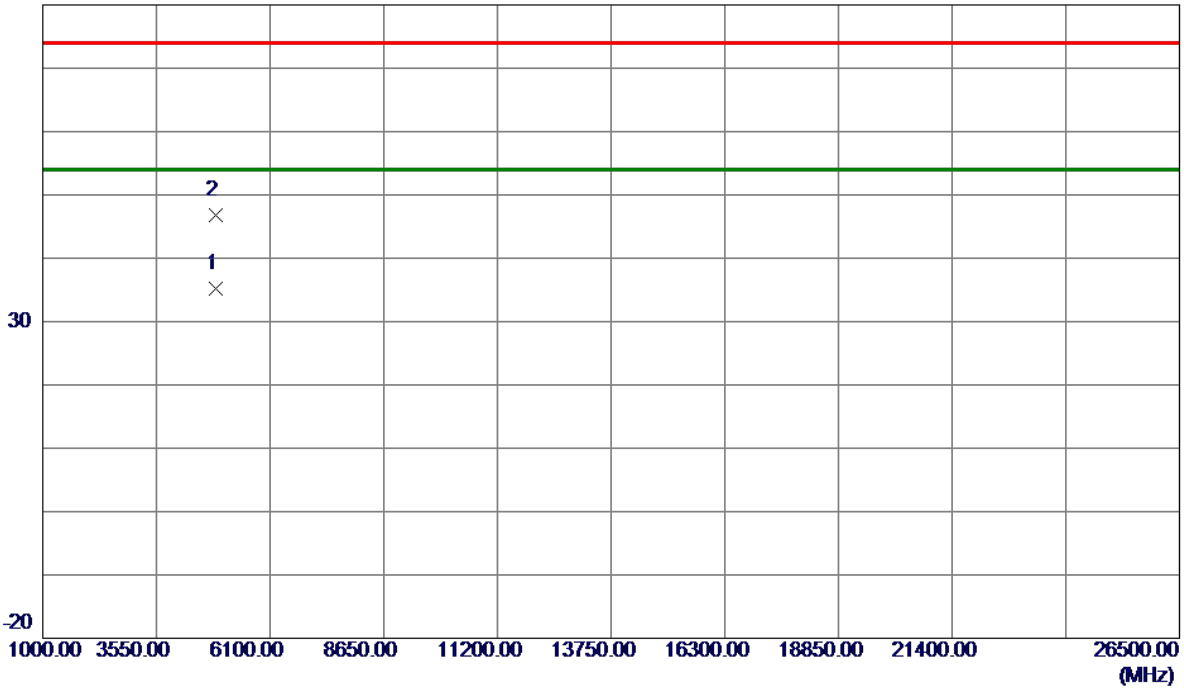
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2327.0000	47.86	8.23	56.09	74.00	-17.91	Peak	
2	2327.0000	36.57	8.23	44.80	54.00	-9.20	AVG	
3	2390.0000	43.35	8.31	51.66	74.00	-22.34	Peak	
4	2390.0000	33.81	8.31	42.12	54.00	-11.88	AVG	
5 *	2435.5000	85.48	8.36	93.84	54.00	39.84	AVG	No Limit
6	2436.5000	88.19	8.36	96.55	74.00	22.55	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	Polarization	Horizontal
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80 dBuV/m



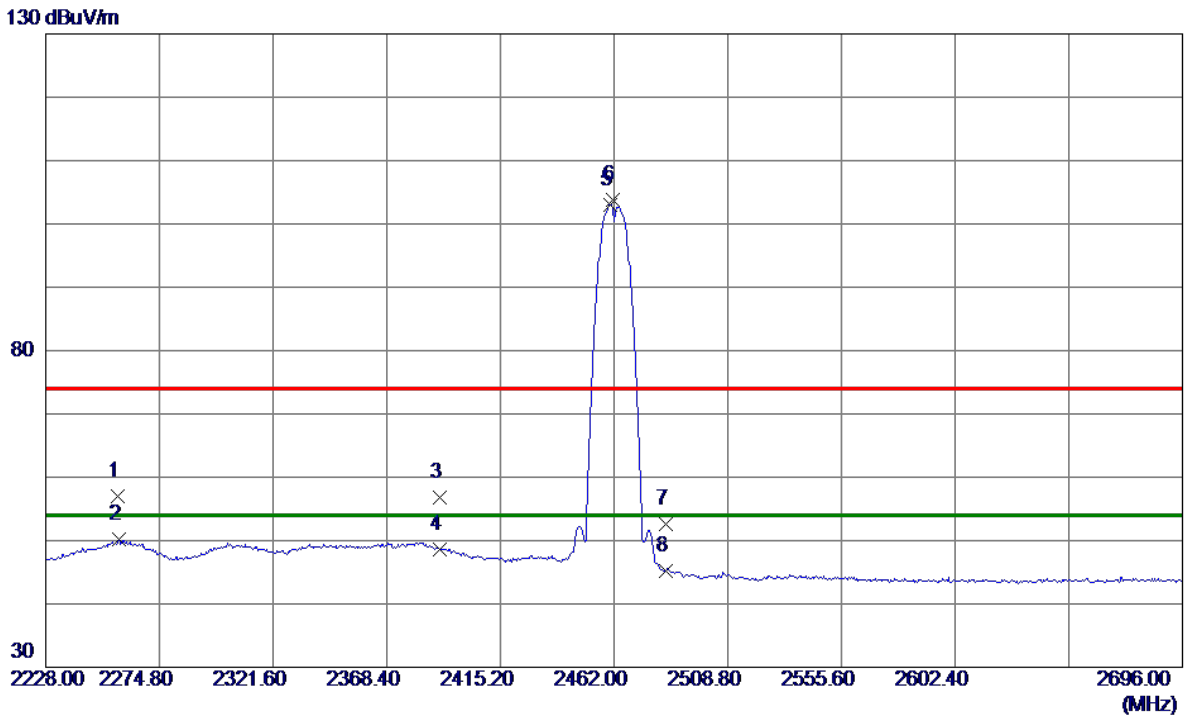
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.8540	29.72	5.48	35.20	54.00	-18.80	AVG	
2	4874.2030	41.32	5.48	46.80	74.00	-27.20	Peak	

**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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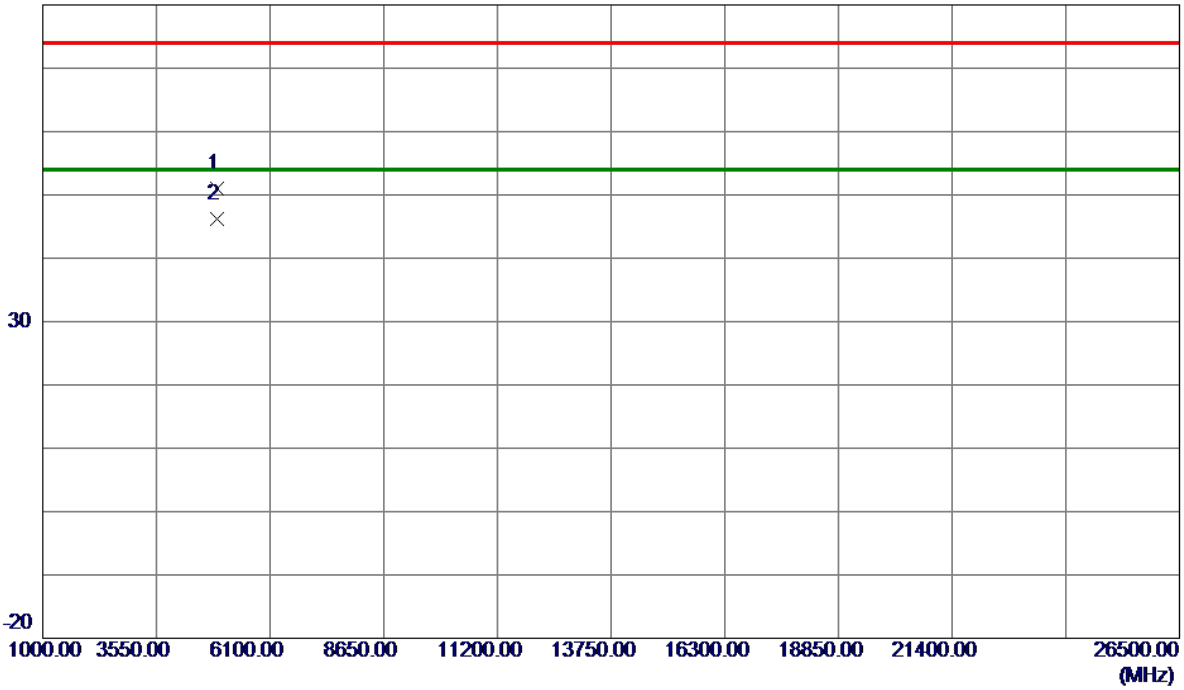
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2257.6000	48.91	8.14	57.05	74.00	-16.95	Peak	
2	2257.9520	42.03	8.14	50.17	54.00	-3.83	AVG	
3	2390.0000	48.40	8.31	56.71	74.00	-17.29	Peak	
4	2390.0000	40.23	8.31	48.54	54.00	-5.46	AVG	
5 *	2460.5960	94.56	8.39	102.95	54.00	48.95	AVG	No Limit
6	2461.5320	95.34	8.40	103.74	74.00	29.74	Peak	No Limit
7	2483.5000	44.14	8.42	52.56	74.00	-21.44	Peak	
8	2483.5000	36.80	8.42	45.22	54.00	-8.78	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

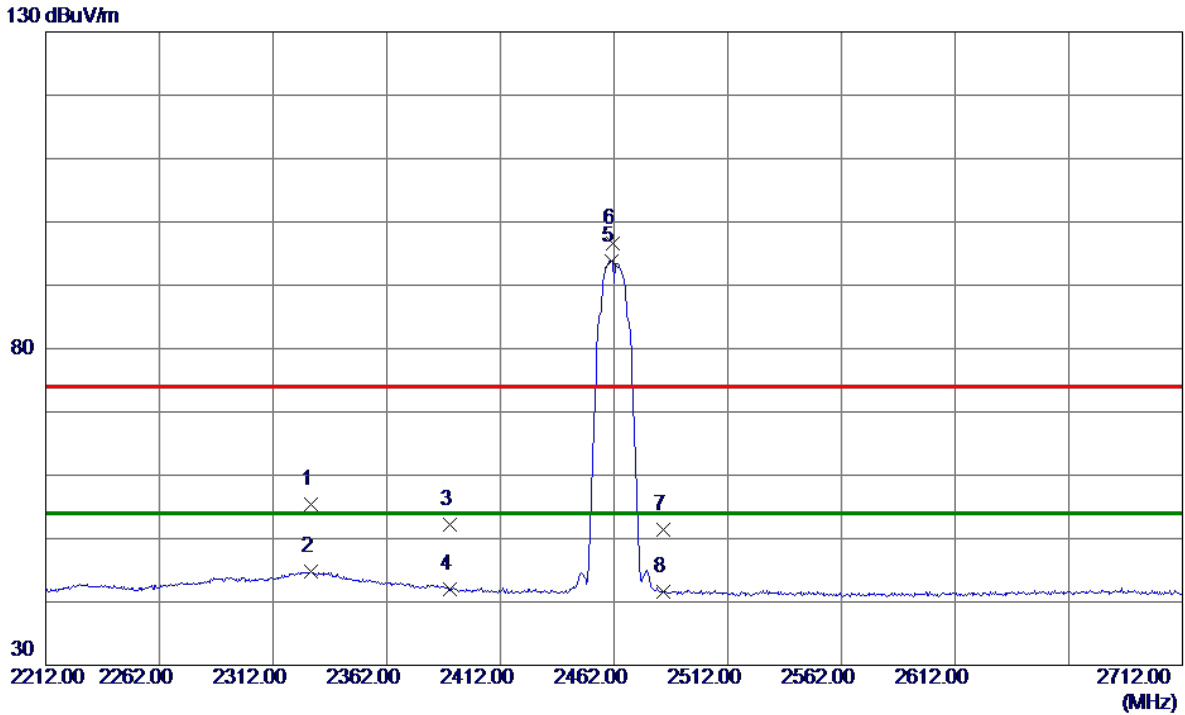


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9290	45.22	5.73	50.95	74.00	-23.05	Peak	
2 *	4924.0259	40.38	5.73	46.11	54.00	-7.89	AVG	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Horizontal
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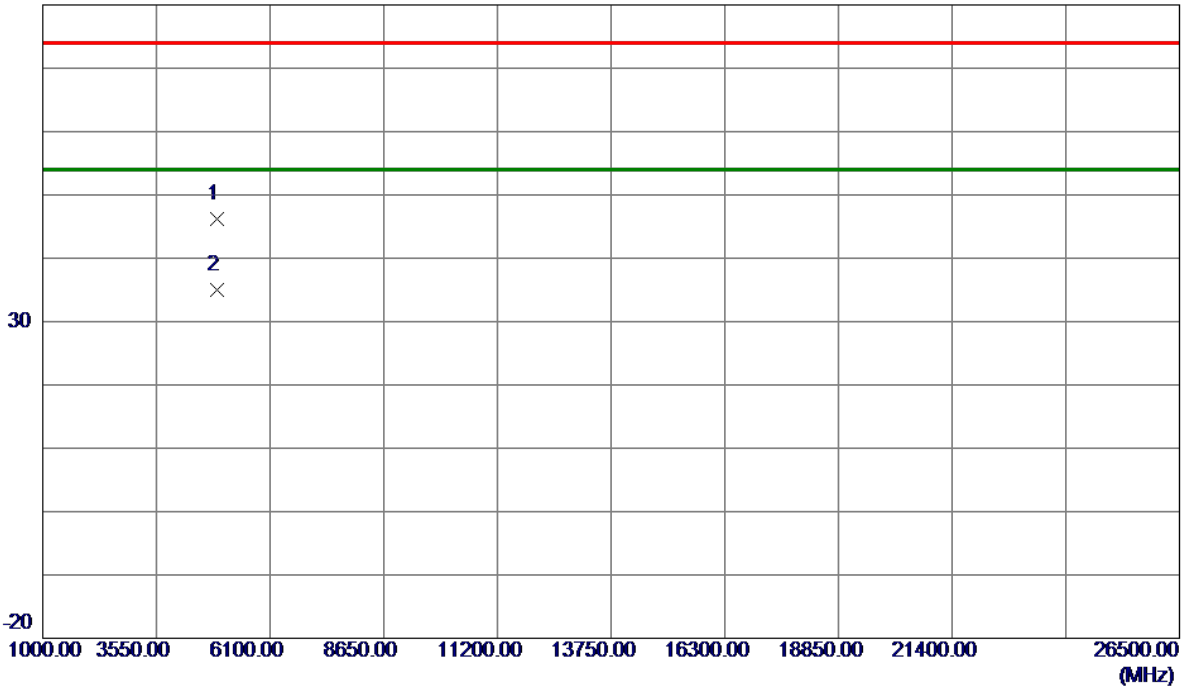
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2328.5000	47.23	8.23	55.46	74.00	-18.54	Peak	
2	2328.5000	36.50	8.23	44.73	54.00	-9.27	AVG	
3	2390.0000	43.80	8.31	52.11	74.00	-21.89	Peak	
4	2390.0000	33.72	8.31	42.03	54.00	-11.97	AVG	
5 *	2461.0000	85.45	8.40	93.85	54.00	39.85	AVG	No Limit
6	2461.5000	88.18	8.40	96.58	74.00	22.58	Peak	No Limit
7	2483.5000	43.04	8.42	51.46	74.00	-22.54	Peak	
8	2483.5000	33.21	8.42	41.63	54.00	-12.37	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

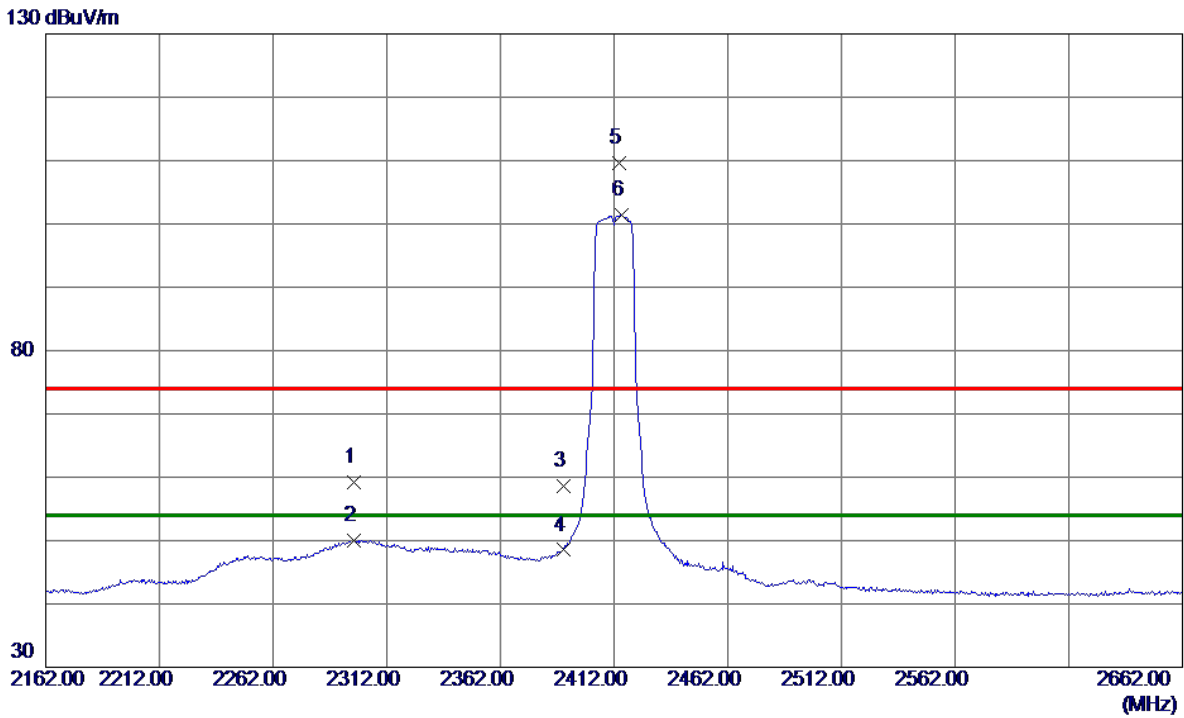


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9030	40.49	5.73	46.22	74.00	-27.78	Peak	
2 *	4923.9690	29.24	5.73	34.97	54.00	-19.03	AVG	

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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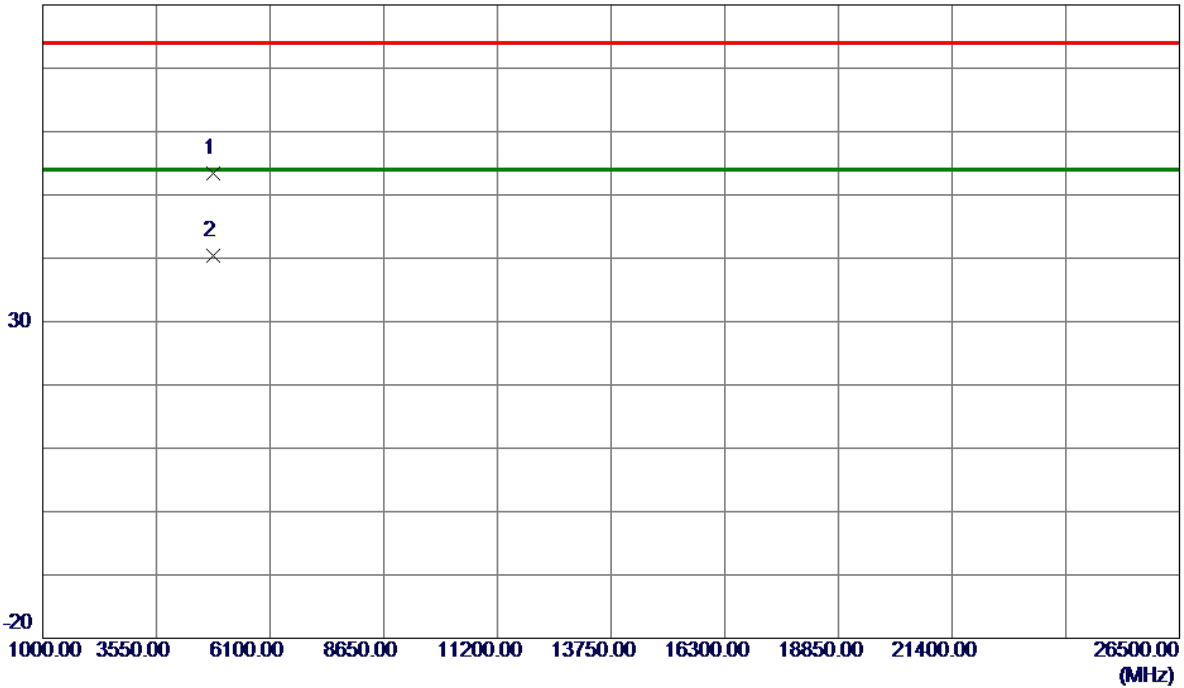
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2297.5000	51.06	8.19	59.25	74.00	-14.75	Peak	
2	2297.5000	41.80	8.19	49.99	54.00	-4.01	AVG	
3	2390.0000	50.35	8.31	58.66	74.00	-15.34	Peak	
4	2390.0000	40.19	8.31	48.50	54.00	-5.50	AVG	
5	2414.0000	101.32	8.34	109.66	74.00	35.66	Peak	No Limit
6 *	2415.5000	93.06	8.34	101.40	54.00	47.40	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

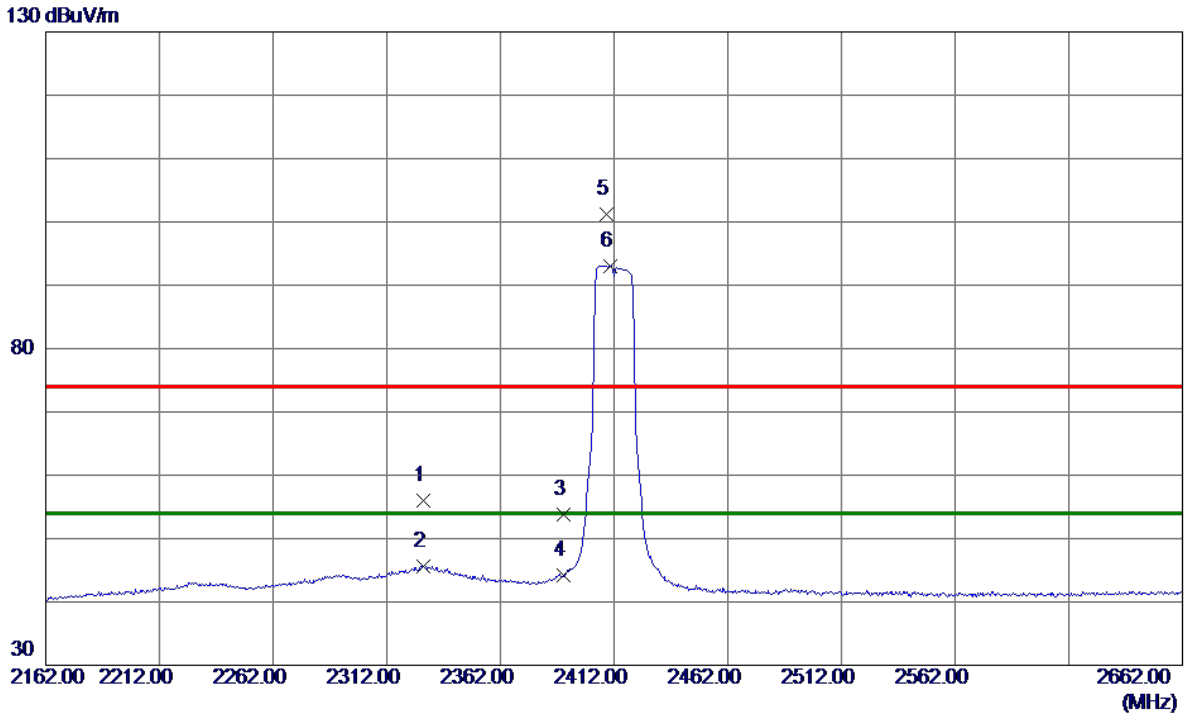


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4817.2700	48.15	5.19	53.34	74.00	-20.66	Peak	
2 *	4822.3700	35.22	5.22	40.44	54.00	-13.56	AVG	

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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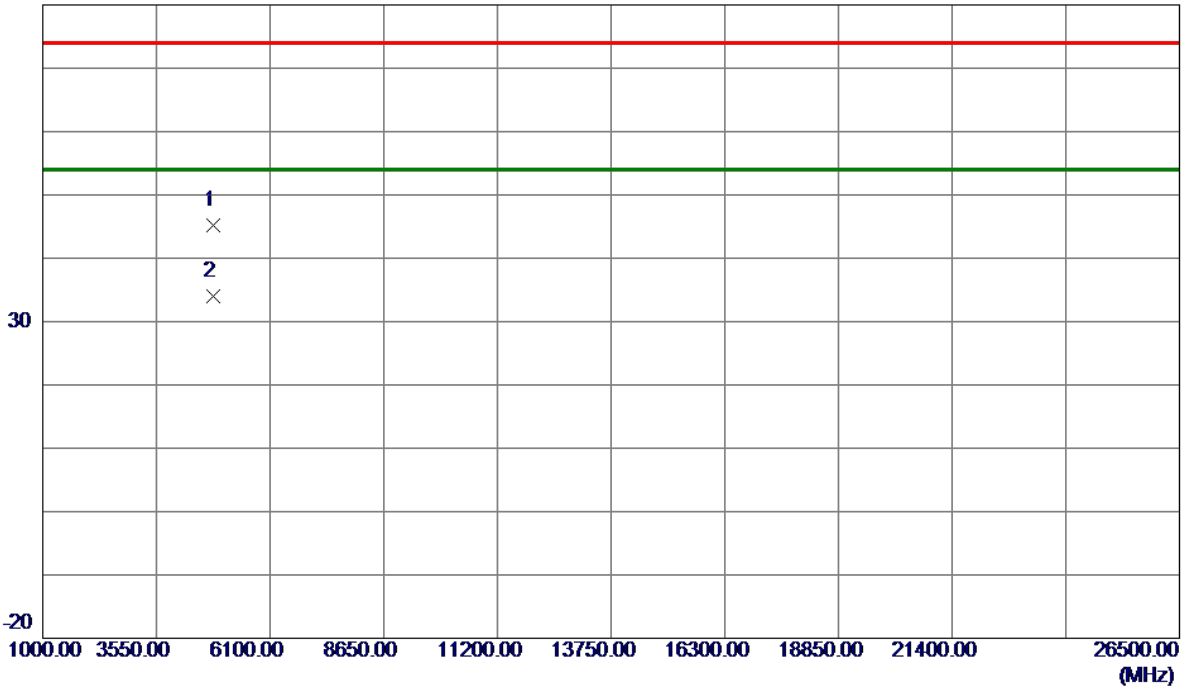
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2328.0000	47.86	8.23	56.09	74.00	-17.91	Peak	
2	2328.0000	37.46	8.23	45.69	54.00	-8.31	AVG	
3	2390.0000	45.47	8.31	53.78	74.00	-20.22	Peak	
4	2390.0000	35.93	8.31	44.24	54.00	-9.76	AVG	
5	2408.5000	92.95	8.33	101.28	74.00	27.28	Peak	No Limit
6 *	2410.5000	84.73	8.33	93.06	54.00	39.06	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



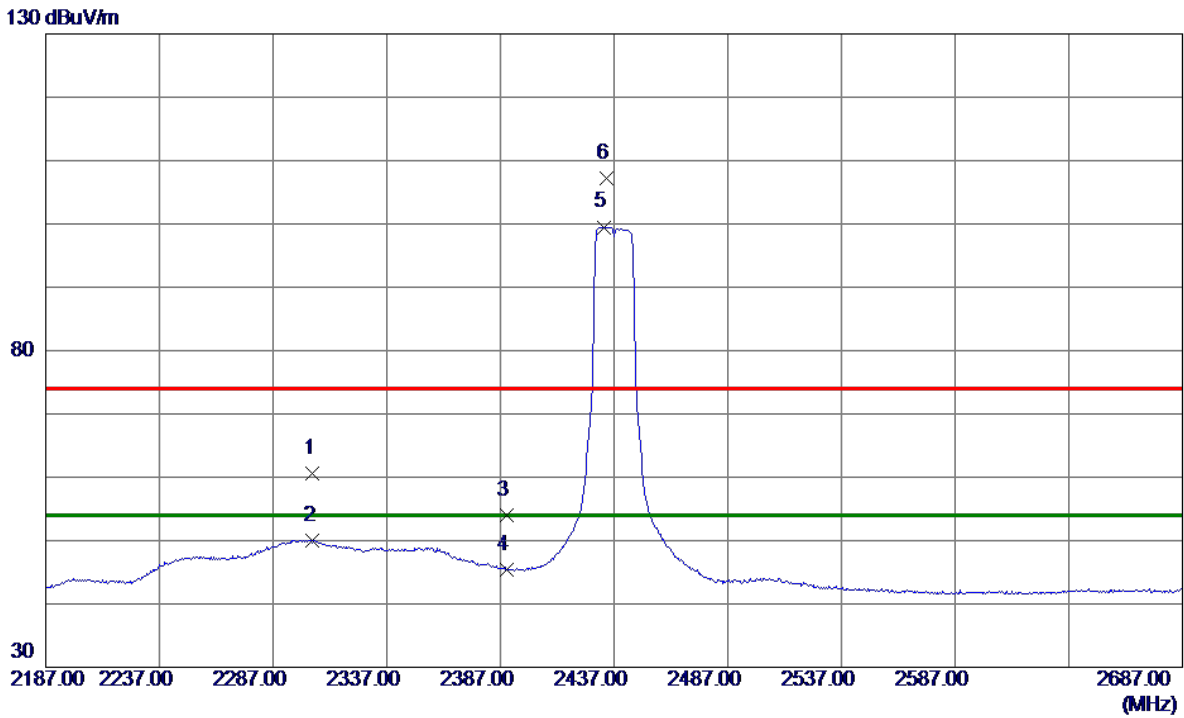
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4816.7000	39.97	5.19	45.16	74.00	-28.84	Peak	
2 *	4821.2400	28.71	5.21	33.92	54.00	-20.08	AVG	

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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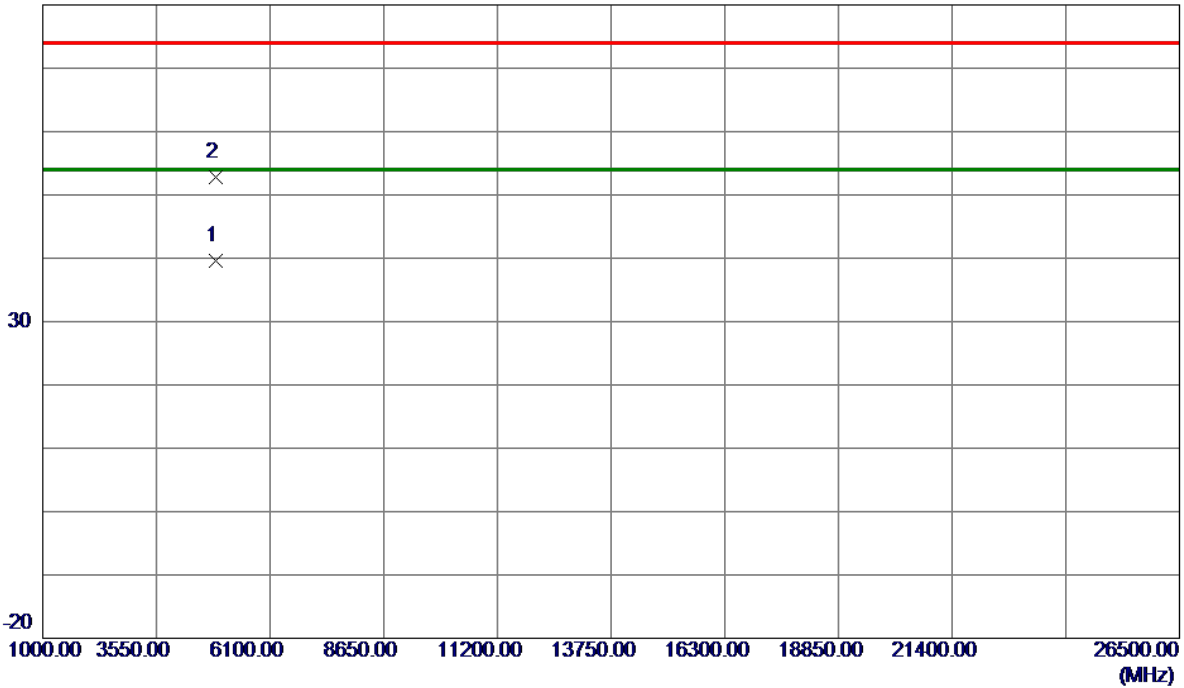
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2304.5000	52.39	8.20	60.59	74.00	-13.41	Peak	
2	2304.5000	41.85	8.20	50.05	54.00	-3.95	AVG	
3	2390.0000	45.60	8.31	53.91	74.00	-20.09	Peak	
4	2390.0000	37.18	8.31	45.49	54.00	-8.51	AVG	
5 *	2432.5000	91.14	8.36	99.50	54.00	45.50	AVG	No Limit
6	2433.5000	98.87	8.36	107.23	74.00	33.23	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	Polarization	Vertical
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80 dBuV/m

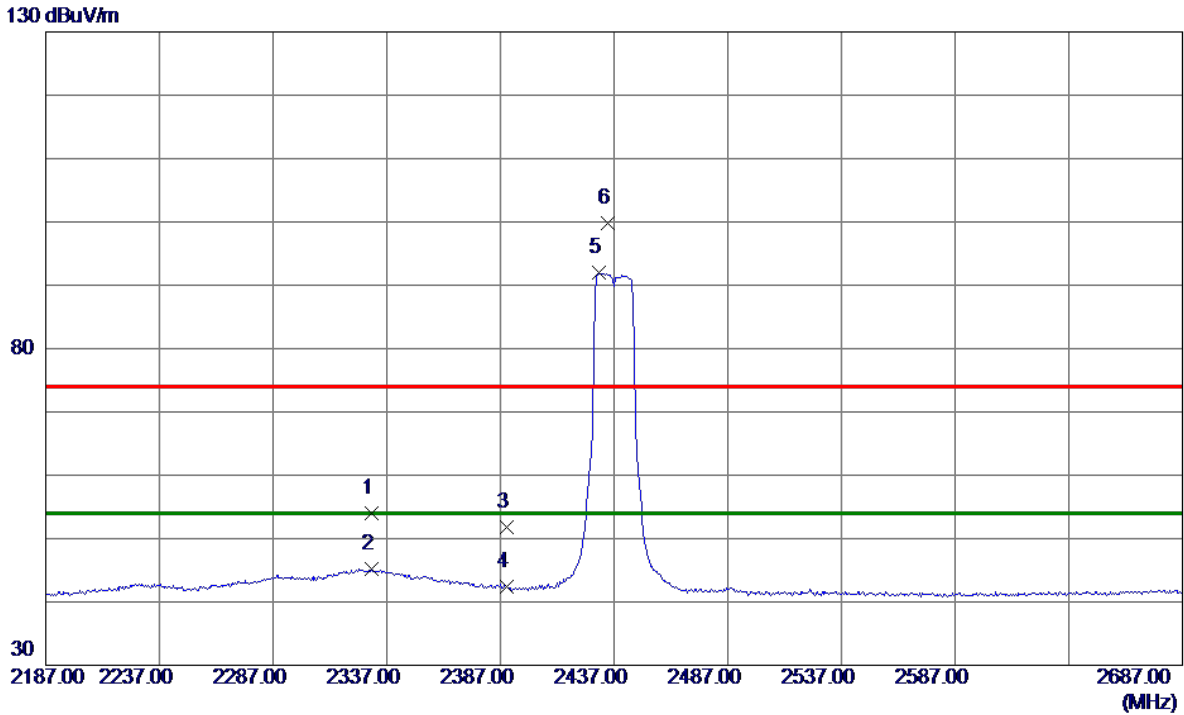


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4872.5600	34.05	5.47	39.52	54.00	-14.48	AVG	
2	4873.4200	47.33	5.48	52.81	74.00	-21.19	Peak	

**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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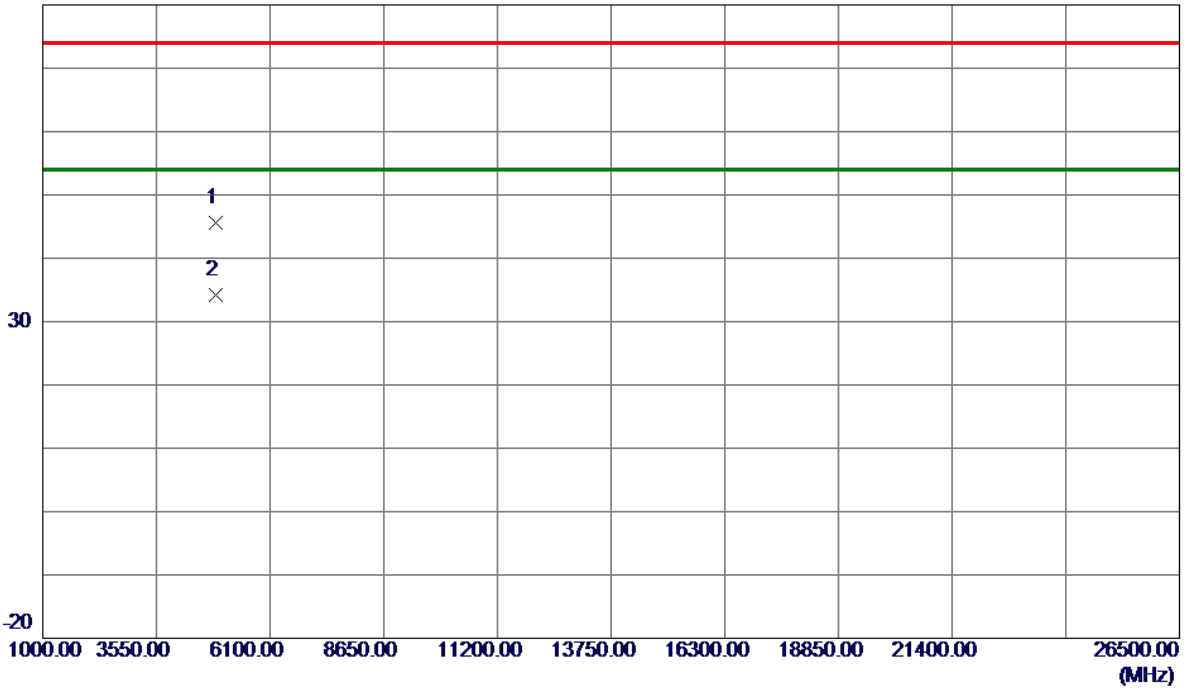
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2330.5000	45.79	8.23	54.02	74.00	-19.98	Peak	
2	2330.5000	36.99	8.23	45.22	54.00	-8.78	AVG	
3	2390.0000	43.57	8.31	51.88	74.00	-22.12	Peak	
4	2390.0000	34.08	8.31	42.39	54.00	-11.61	AVG	
5 *	2430.5000	83.60	8.36	91.96	54.00	37.96	AVG	No Limit
6	2434.0000	91.51	8.36	99.87	74.00	25.87	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	Polarization	Horizontal
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80 dBuV/m

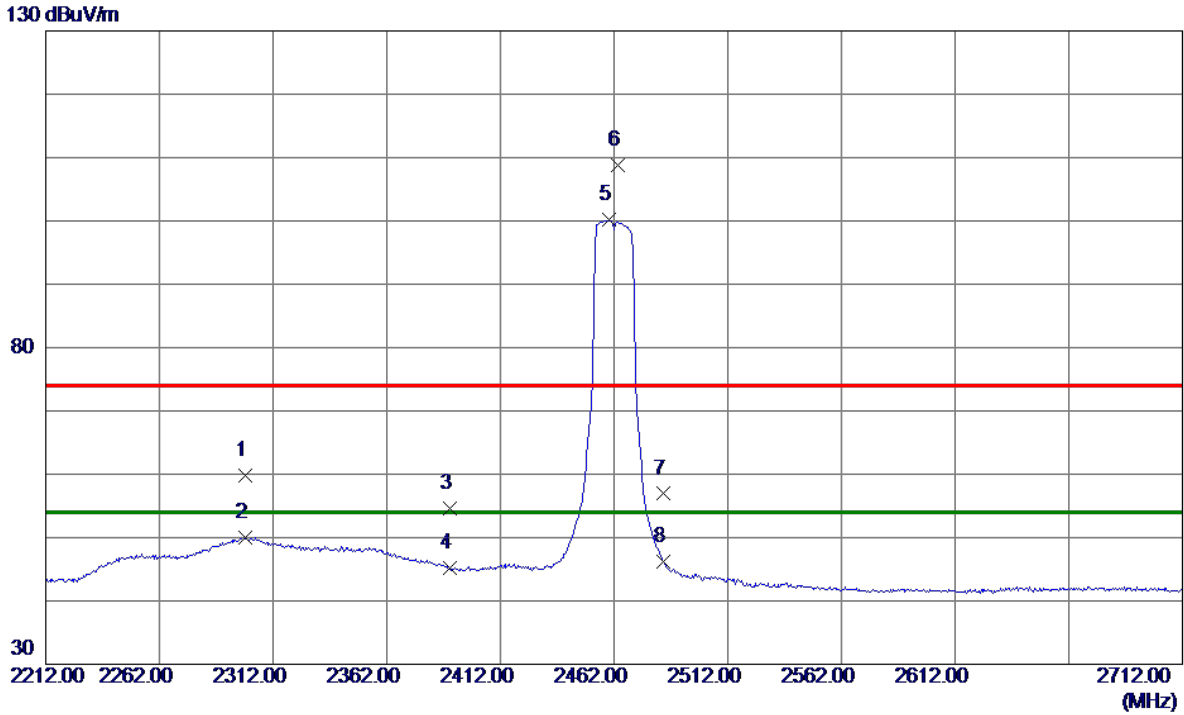


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4872.2799	40.17	5.47	45.64	74.00	-28.36	Peak	
2 *	4873.8800	28.64	5.48	34.12	54.00	-19.88	AVG	

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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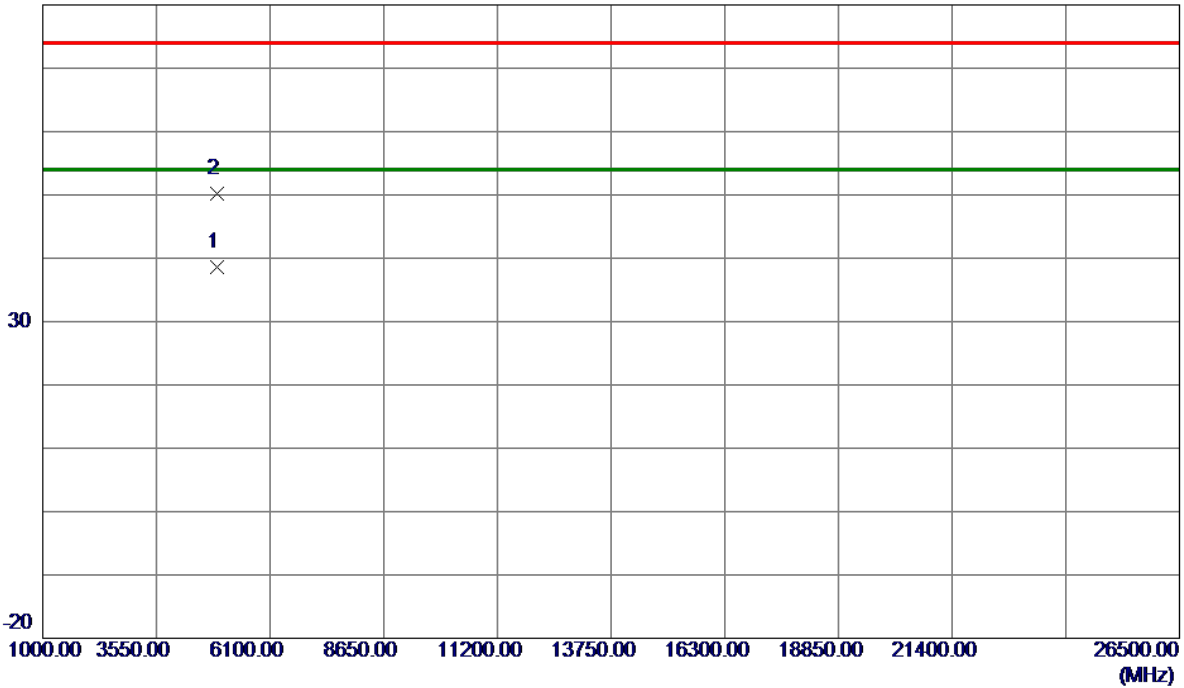
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2300.0000	51.65	8.19	59.84	74.00	-14.16	Peak	
2	2300.0000	41.77	8.19	49.96	54.00	-4.04	AVG	
3	2390.0000	46.23	8.31	54.54	74.00	-19.46	Peak	
4	2390.0000	36.84	8.31	45.15	54.00	-8.85	AVG	
5 *	2460.0000	91.78	8.39	100.17	54.00	46.17	AVG	No Limit
6	2463.5000	100.37	8.40	108.77	74.00	34.77	Peak	No Limit
7	2483.5000	48.48	8.42	56.90	74.00	-17.10	Peak	
8	2483.5000	37.76	8.42	46.18	54.00	-7.82	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

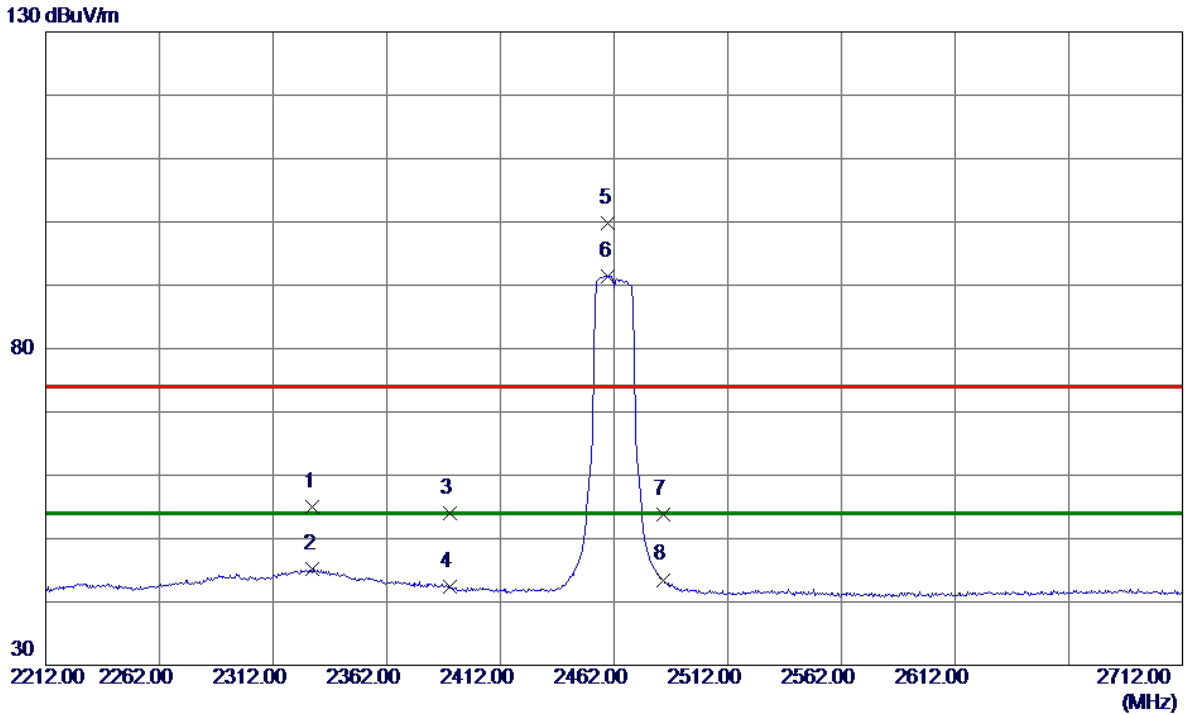


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4922.6300	32.81	5.73	38.54	54.00	-15.46	AVG	
2	4923.1300	44.46	5.73	50.19	74.00	-23.81	Peak	

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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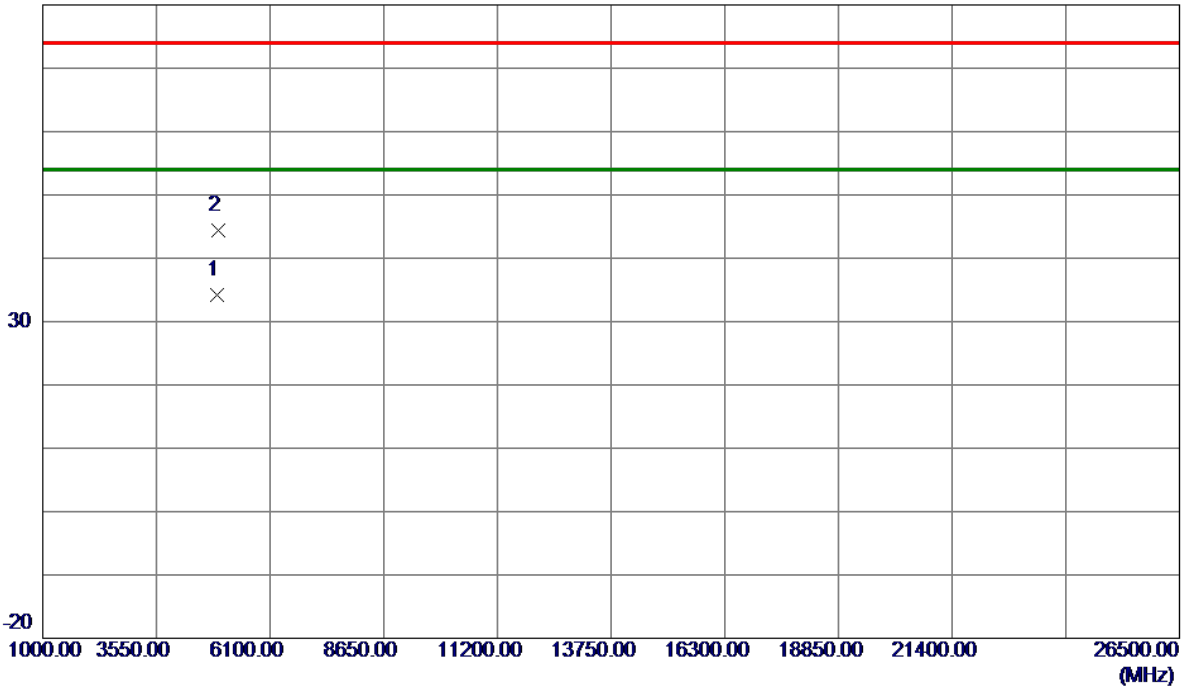
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2329.5000	46.85	8.23	55.08	74.00	-18.92	Peak	
2	2329.5000	36.92	8.23	45.15	54.00	-8.85	AVG	
3	2390.0000	45.65	8.31	53.96	74.00	-20.04	Peak	
4	2390.0000	34.04	8.31	42.35	54.00	-11.65	AVG	
5	2459.5000	91.35	8.39	99.74	74.00	25.74	Peak	No Limit
6 *	2459.5000	83.10	8.39	91.49	54.00	37.49	AVG	No Limit
7	2483.5000	45.36	8.42	53.78	74.00	-20.22	Peak	
8	2483.5000	35.08	8.42	43.50	54.00	-10.50	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



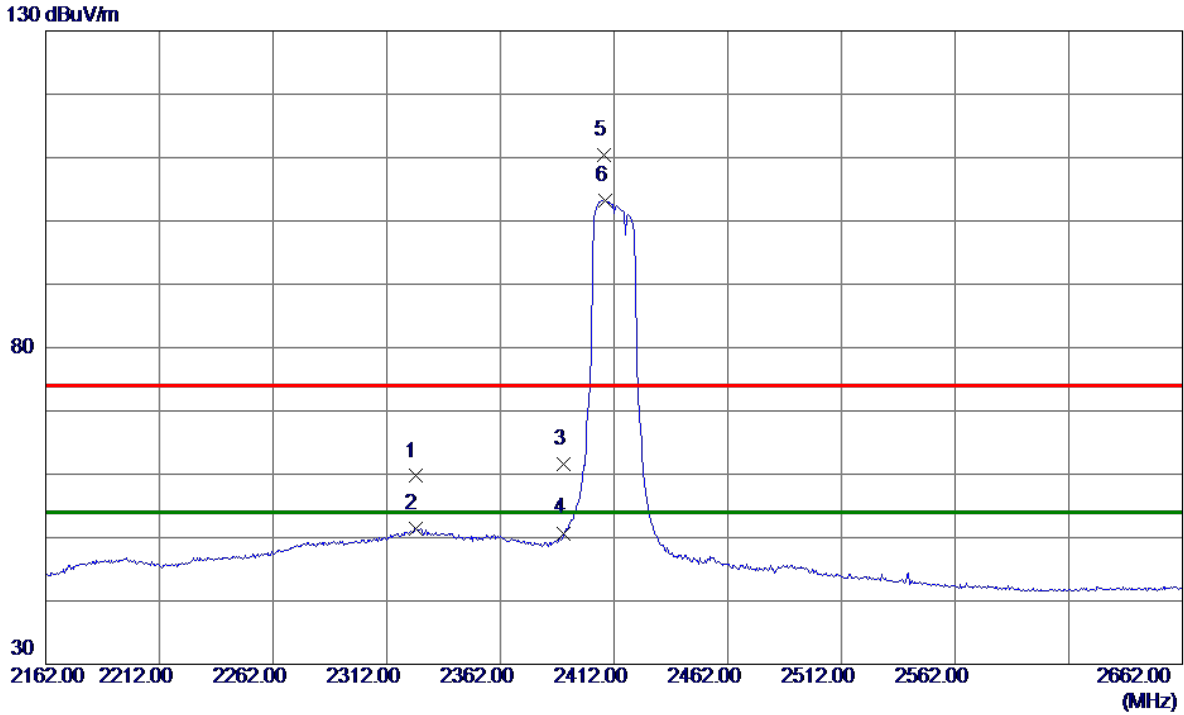
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4922.3500	28.44	5.73	34.17	54.00	-19.83	AVG	
2	4925.8500	38.68	5.74	44.42	74.00	-29.58	Peak	

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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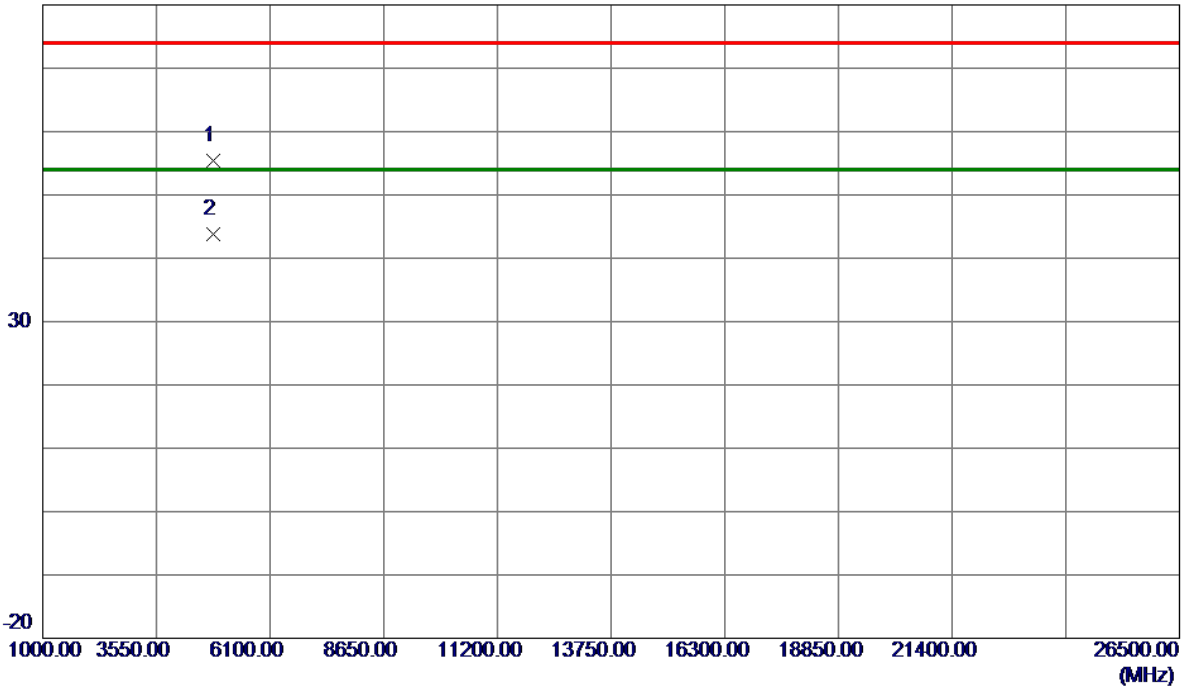
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2324.5000	51.48	8.22	59.70	74.00	-14.30	Peak	
2	2324.5000	43.24	8.22	51.46	54.00	-2.54	AVG	
3	2390.0000	53.24	8.31	61.55	74.00	-12.45	Peak	
4	2390.0000	42.39	8.31	50.70	54.00	-3.30	AVG	
5	2407.5000	102.13	8.33	110.46	74.00	36.46	Peak	No Limit
6 *	2408.0000	94.83	8.33	103.16	54.00	49.16	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

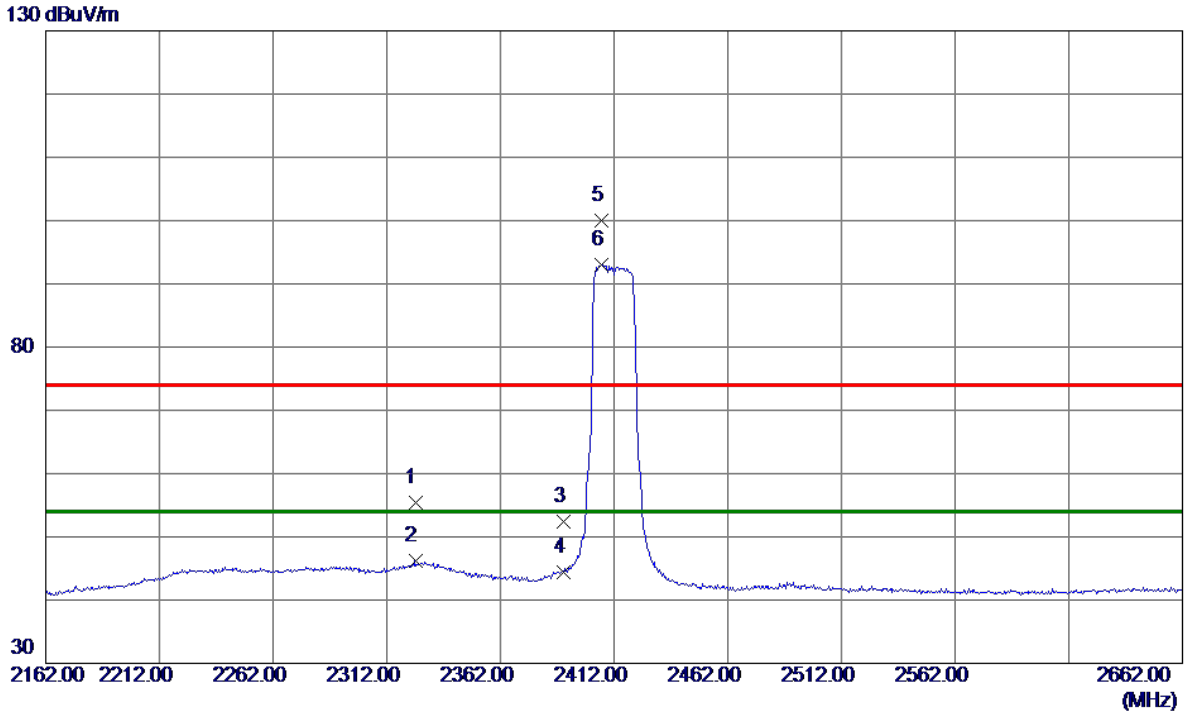


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4815.1100	50.17	5.18	55.35	74.00	-18.65	Peak	
2 *	4820.2900	38.58	5.21	43.79	54.00	-10.21	AVG	

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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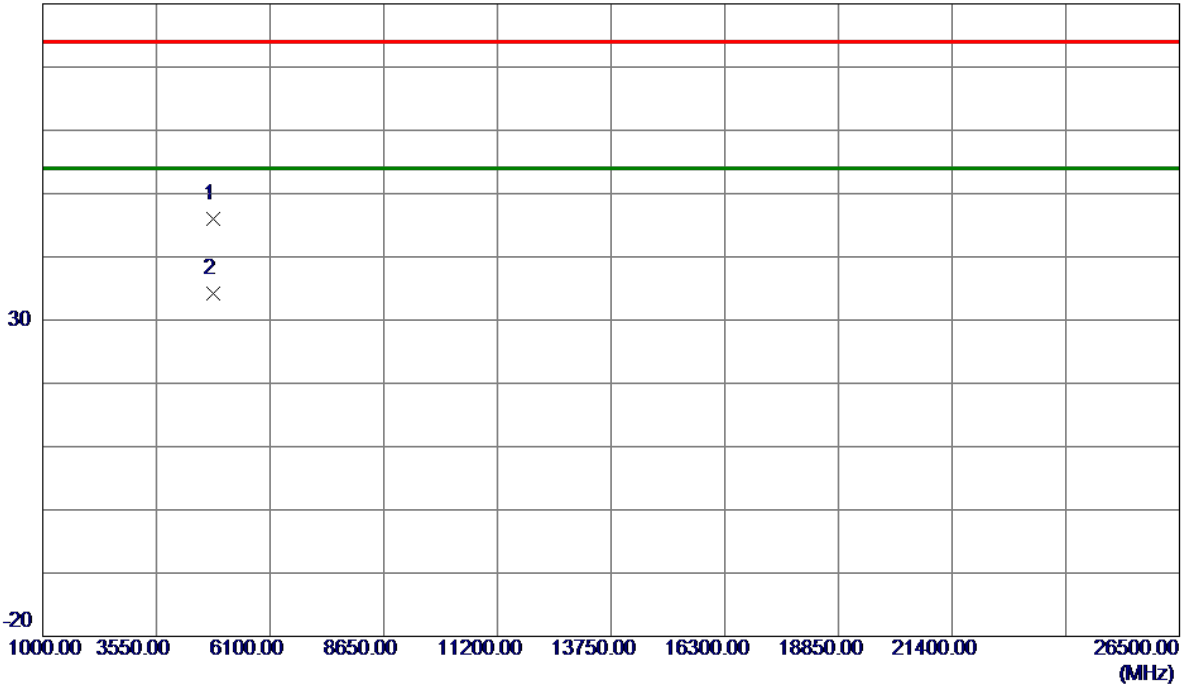
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2324.5000	47.26	8.22	55.48	74.00	-18.52	Peak	
2	2324.5000	37.93	8.22	46.15	54.00	-7.85	AVG	
3	2390.0000	44.04	8.31	52.35	74.00	-21.65	Peak	
4	2390.0000	36.02	8.31	44.33	54.00	-9.67	AVG	
5	2406.5000	91.74	8.33	100.07	74.00	26.07	Peak	No Limit
6 *	2406.5000	84.66	8.33	92.99	54.00	38.99	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	Horizontal
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80 dBuV/m

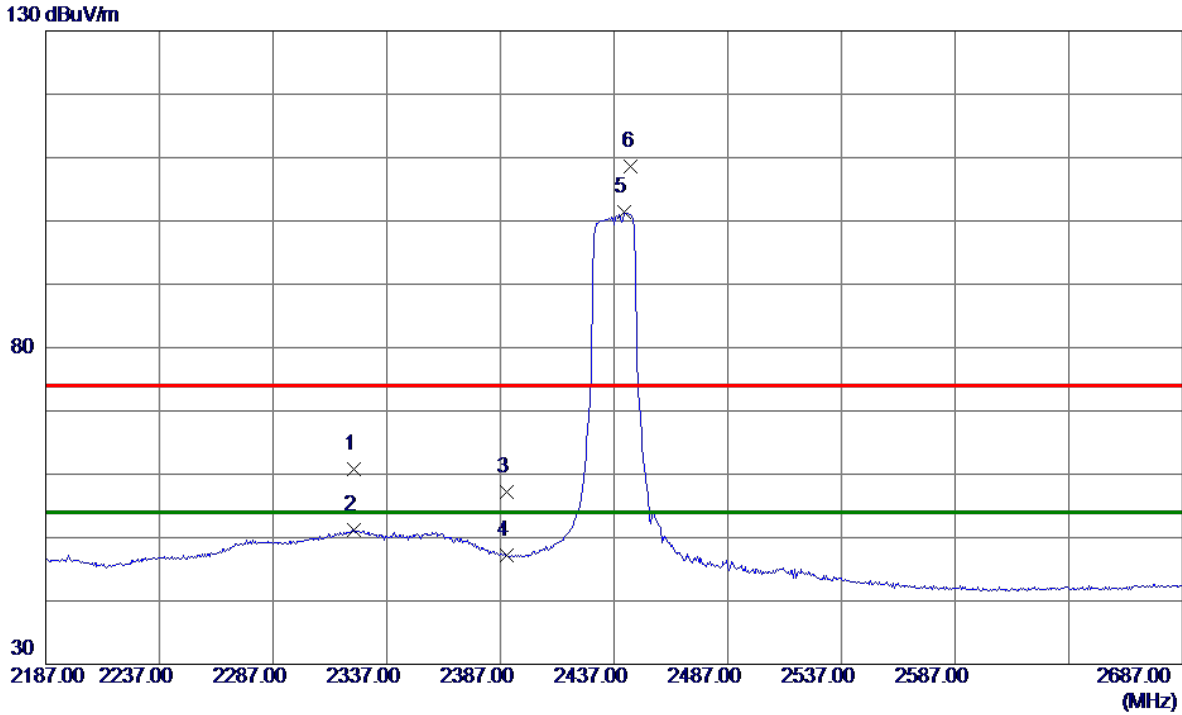


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4816.8800	40.81	5.19	46.00	74.00	-28.00	Peak	
2 *	4823.7599	28.93	5.23	34.16	54.00	-19.84	AVG	

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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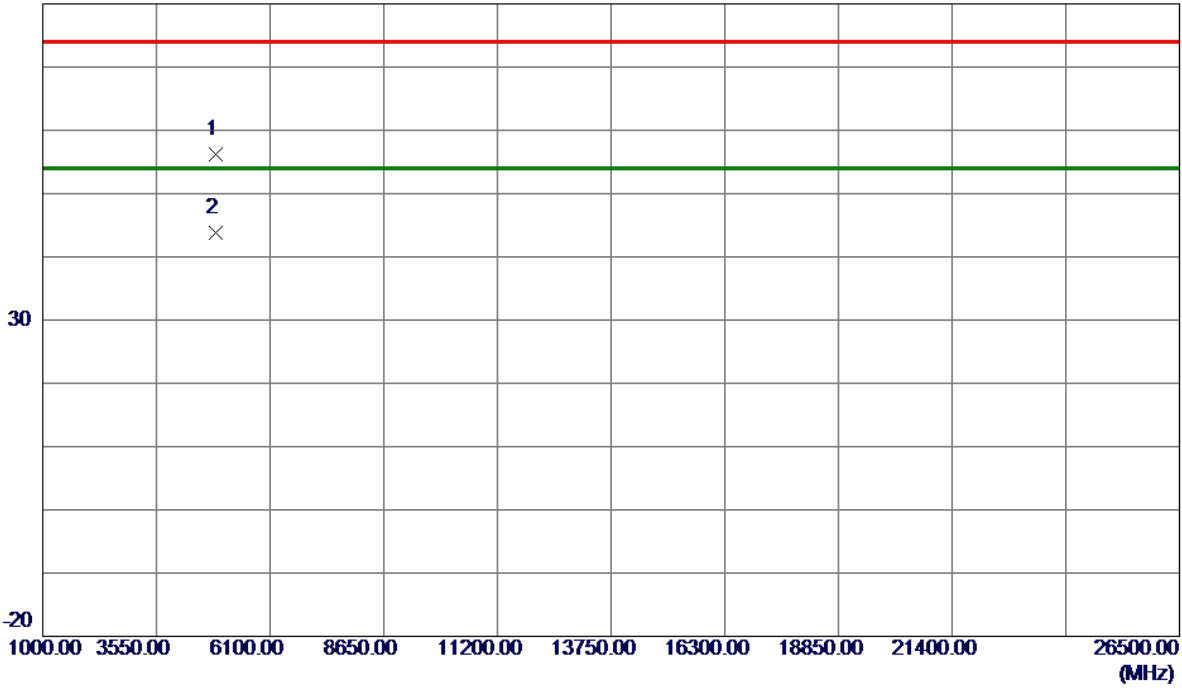
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2322.5000	52.66	8.22	60.88	74.00	-13.12	Peak	
2	2322.5000	43.04	8.22	51.26	54.00	-2.74	AVG	
3	2390.0000	48.96	8.31	57.27	74.00	-16.73	Peak	
4	2390.0000	38.90	8.31	47.21	54.00	-6.79	AVG	
5 *	2441.5000	92.99	8.37	101.36	54.00	47.36	AVG	No Limit
6	2444.5000	100.21	8.37	108.58	74.00	34.58	Peak	No Limit

**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

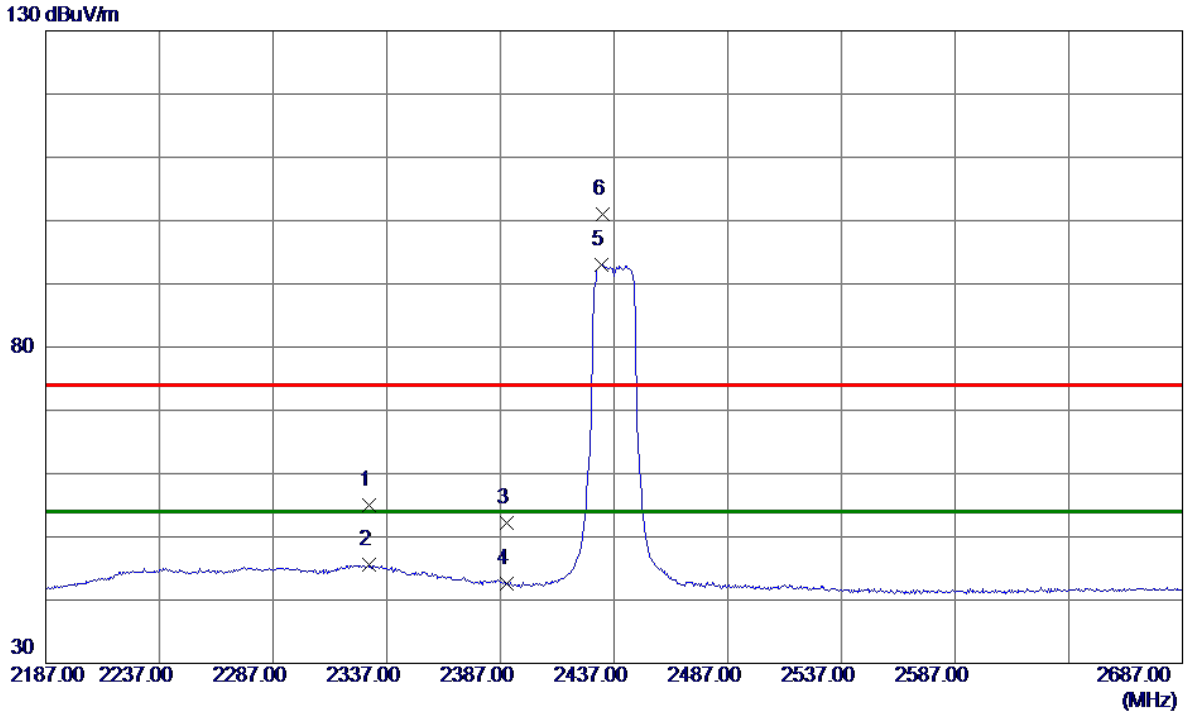


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4867.9500	50.78	5.45	56.23	74.00	-17.77	Peak	
2 *	4870.3700	38.28	5.46	43.74	54.00	-10.26	AVG	

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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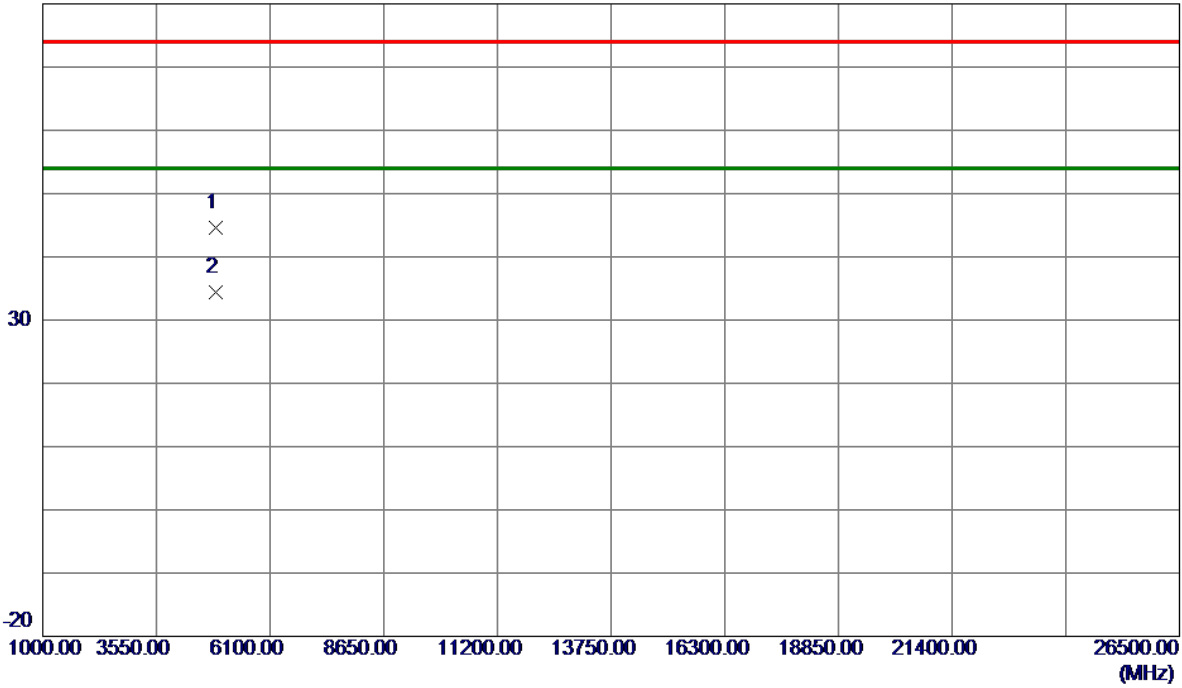
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2329.0000	46.86	8.23	55.09	74.00	-18.91	Peak	
2	2329.0000	37.28	8.23	45.51	54.00	-8.49	AVG	
3	2390.0000	43.93	8.31	52.24	74.00	-21.76	Peak	
4	2390.0000	34.38	8.31	42.69	54.00	-11.31	AVG	
5 *	2431.5000	84.57	8.36	92.93	54.00	38.93	AVG	No Limit
6	2432.0000	92.69	8.36	101.05	74.00	27.05	Peak	No Limit

**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



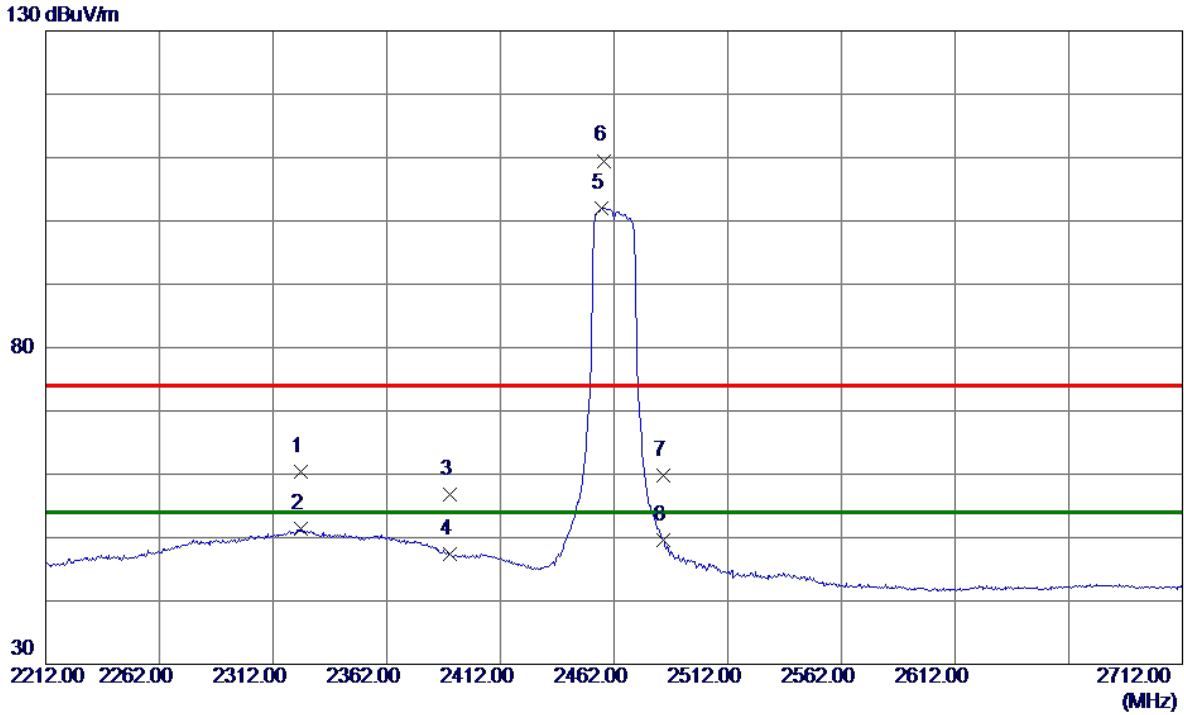
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.8600	39.05	5.49	44.54	74.00	-29.46	Peak	
2 *	4878.1300	28.87	5.50	34.37	54.00	-19.63	AVG	

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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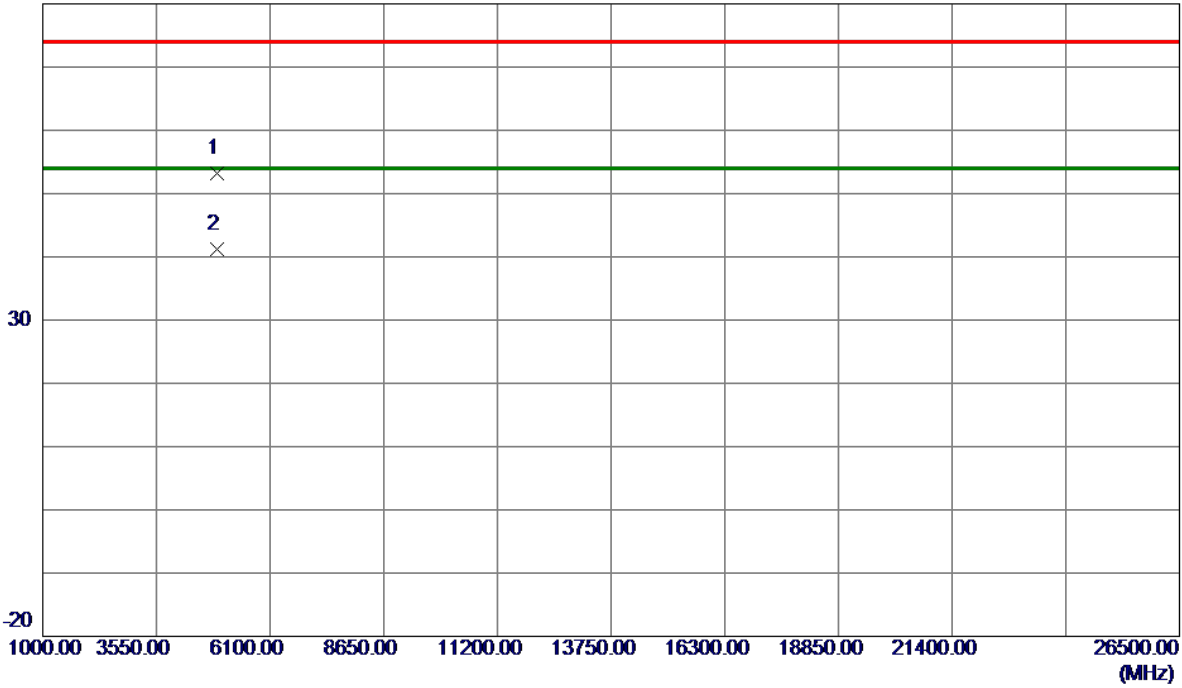
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2324.0000	52.12	8.22	60.34	74.00	-13.66	Peak	
2	2324.0000	43.12	8.22	51.34	54.00	-2.66	AVG	
3	2390.0000	48.41	8.31	56.72	74.00	-17.28	Peak	
4	2390.0000	39.14	8.31	47.45	54.00	-6.55	AVG	
5 *	2456.5000	93.70	8.39	102.09	54.00	48.09	AVG	No Limit
6	2457.5000	101.11	8.39	109.50	74.00	35.50	Peak	No Limit
7	2483.5000	51.31	8.42	59.73	74.00	-14.27	Peak	
8	2483.5000	41.22	8.42	49.64	54.00	-4.36	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

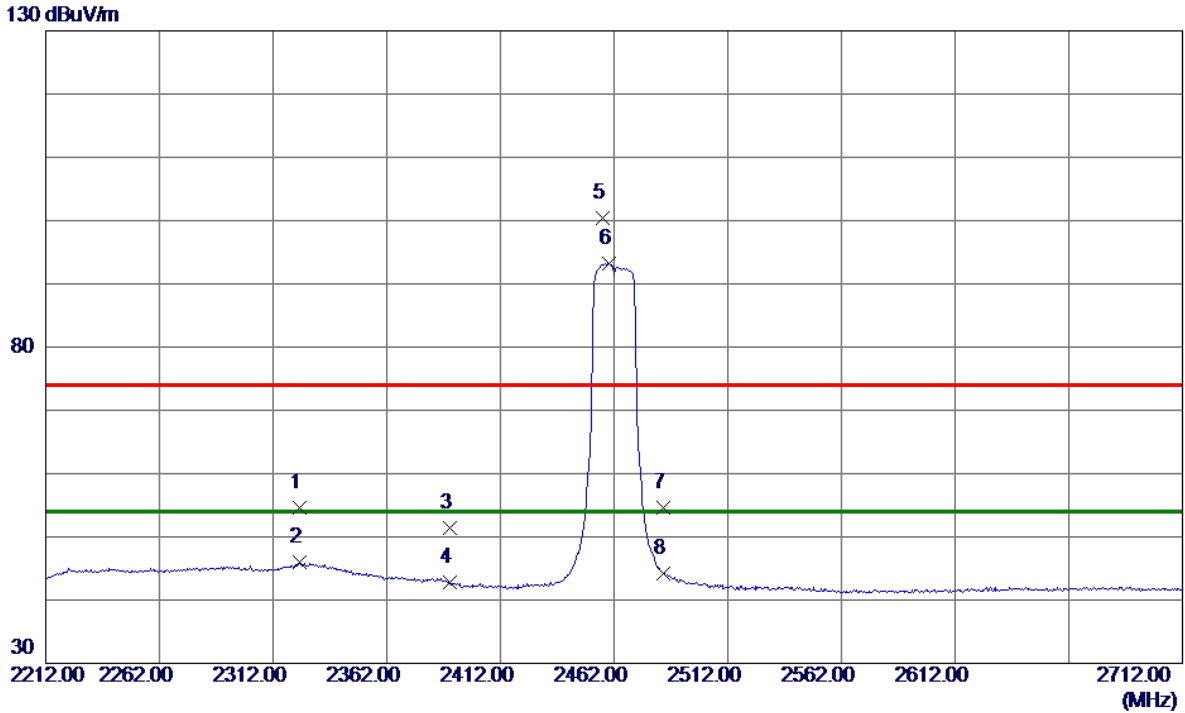


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4917.9700	47.53	5.70	53.23	74.00	-20.77	Peak	
2 *	4920.4200	35.52	5.72	41.24	54.00	-12.76	AVG	

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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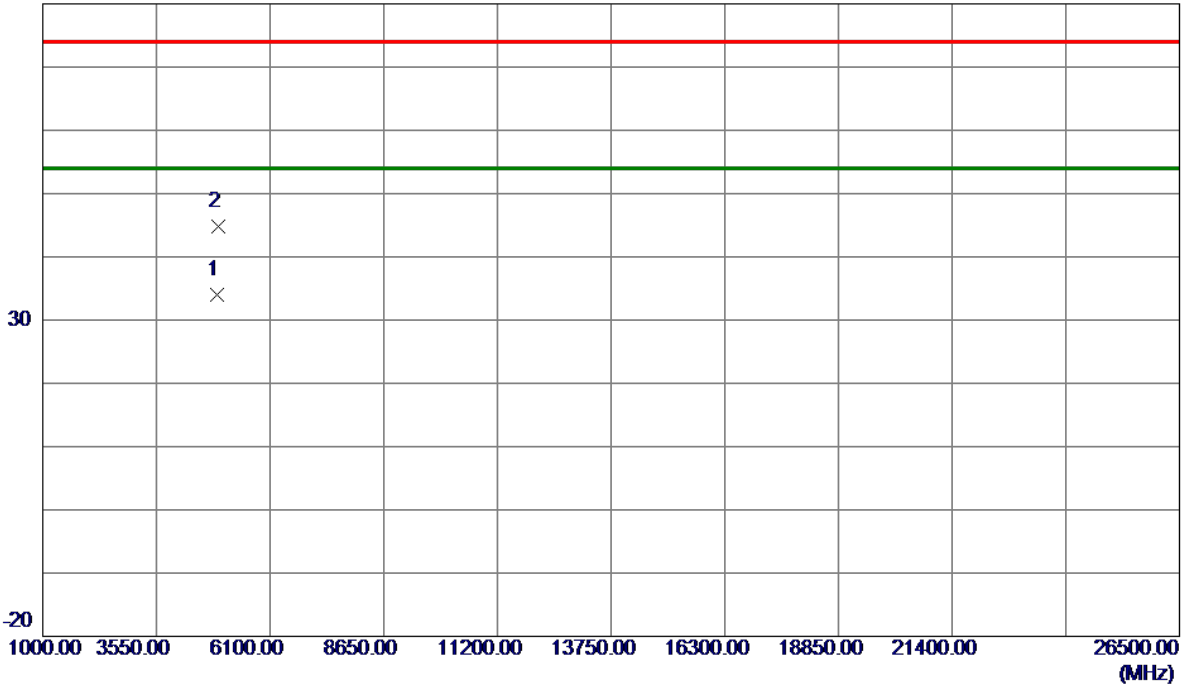
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2323.5000	46.37	8.22	54.59	74.00	-19.41	Peak	
2	2323.5000	37.75	8.22	45.97	54.00	-8.03	AVG	
3	2390.0000	43.16	8.31	51.47	74.00	-22.53	Peak	
4	2390.0000	34.50	8.31	42.81	54.00	-11.19	AVG	
5	2457.0000	91.99	8.39	100.38	74.00	26.38	Peak	No Limit
6 *	2460.0000	84.82	8.39	93.21	54.00	39.21	AVG	No Limit
7	2483.5000	46.23	8.42	54.65	74.00	-19.35	Peak	
8	2483.5000	35.78	8.42	44.20	54.00	-9.80	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

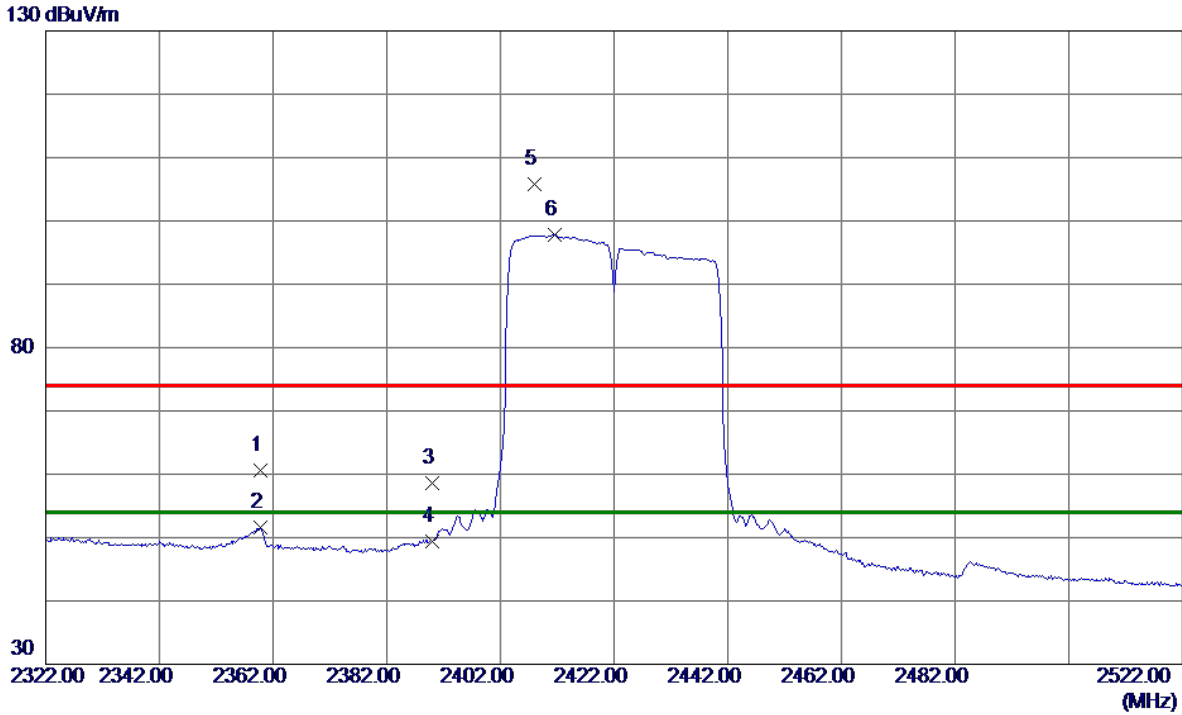


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4916.4600	28.37	5.70	34.07	54.00	-19.93	AVG	
2	4925.7000	39.02	5.74	44.76	74.00	-29.24	Peak	

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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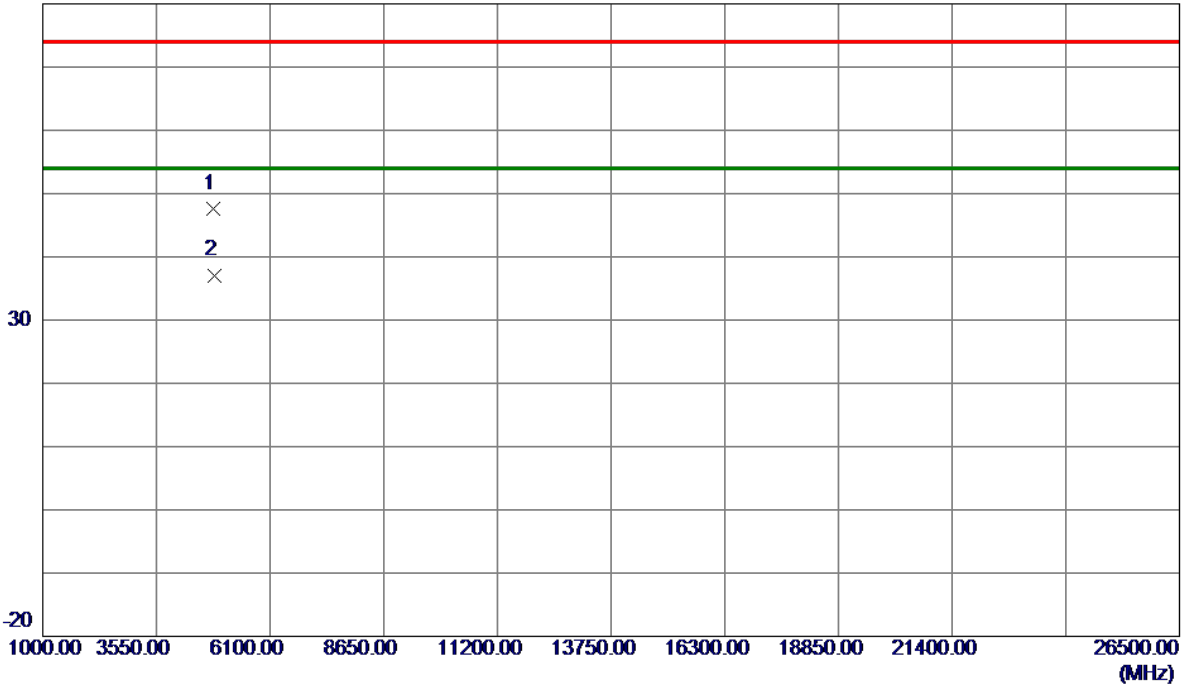
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2359.8000	52.28	8.27	60.55	74.00	-13.45	Peak	
2	2359.8000	43.24	8.27	51.51	54.00	-2.49	AVG	
3	2390.0000	50.22	8.31	58.53	74.00	-15.47	Peak	
4	2390.0000	41.16	8.31	49.47	54.00	-4.53	AVG	
5	2408.0000	97.45	8.33	105.78	74.00	31.78	Peak	No Limit
6 *	2411.6000	89.44	8.33	97.77	54.00	43.77	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

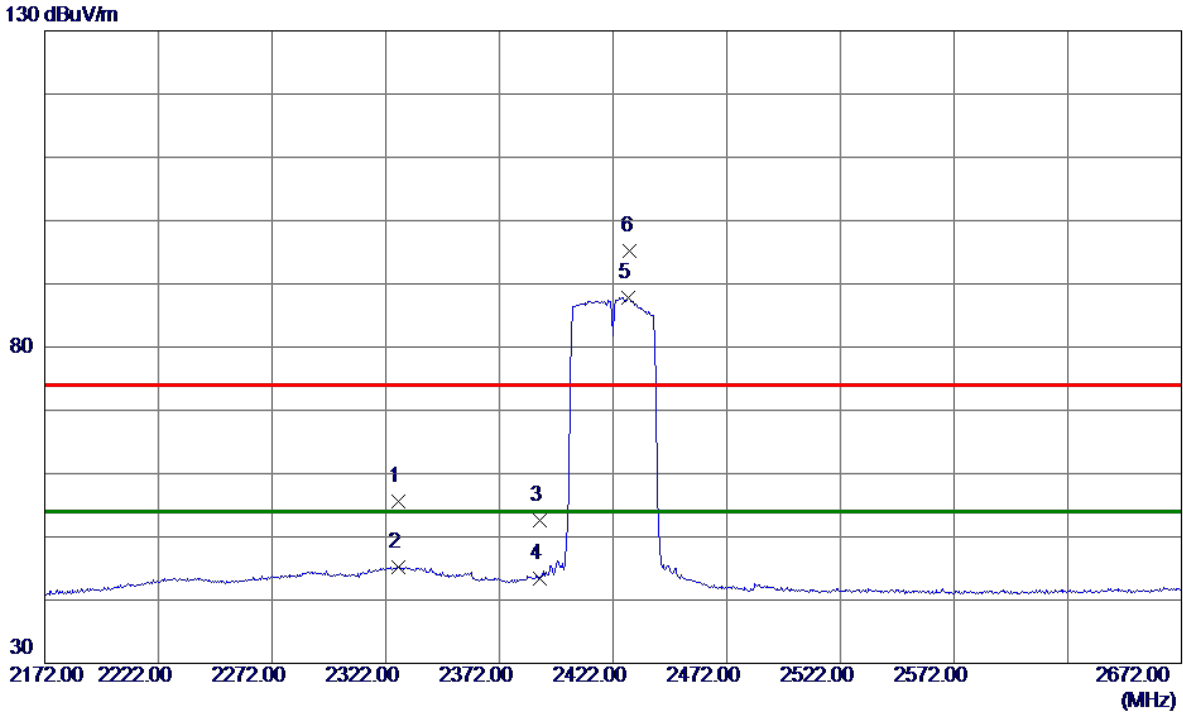


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4831.7500	42.42	5.27	47.69	74.00	-26.31	Peak	
2 *	4846.5000	31.76	5.34	37.10	54.00	-16.90	AVG	

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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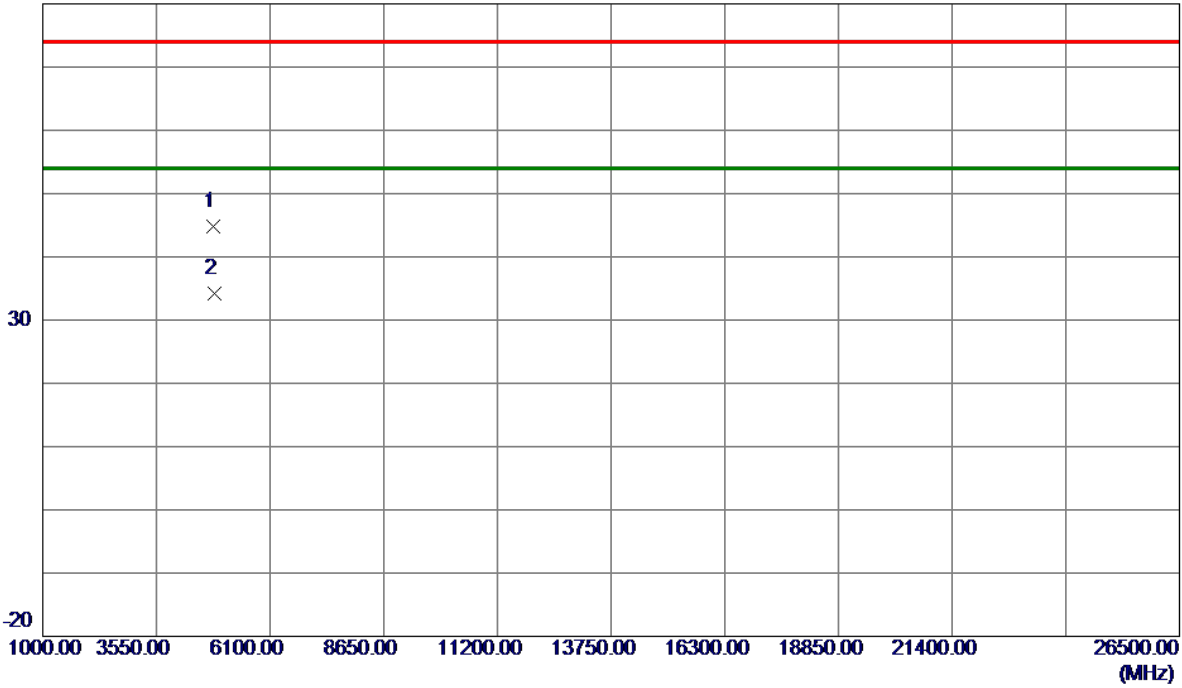
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2327.5000	47.28	8.23	55.51	74.00	-18.49	Peak	
2	2327.5000	37.05	8.23	45.28	54.00	-8.72	AVG	
3	2390.0000	44.37	8.31	52.68	74.00	-21.32	Peak	
4	2390.0000	35.02	8.31	43.33	54.00	-10.67	AVG	
5 *	2428.5000	79.39	8.35	87.74	54.00	33.74	AVG	No Limit
6	2429.5000	86.89	8.36	95.25	74.00	21.25	Peak	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



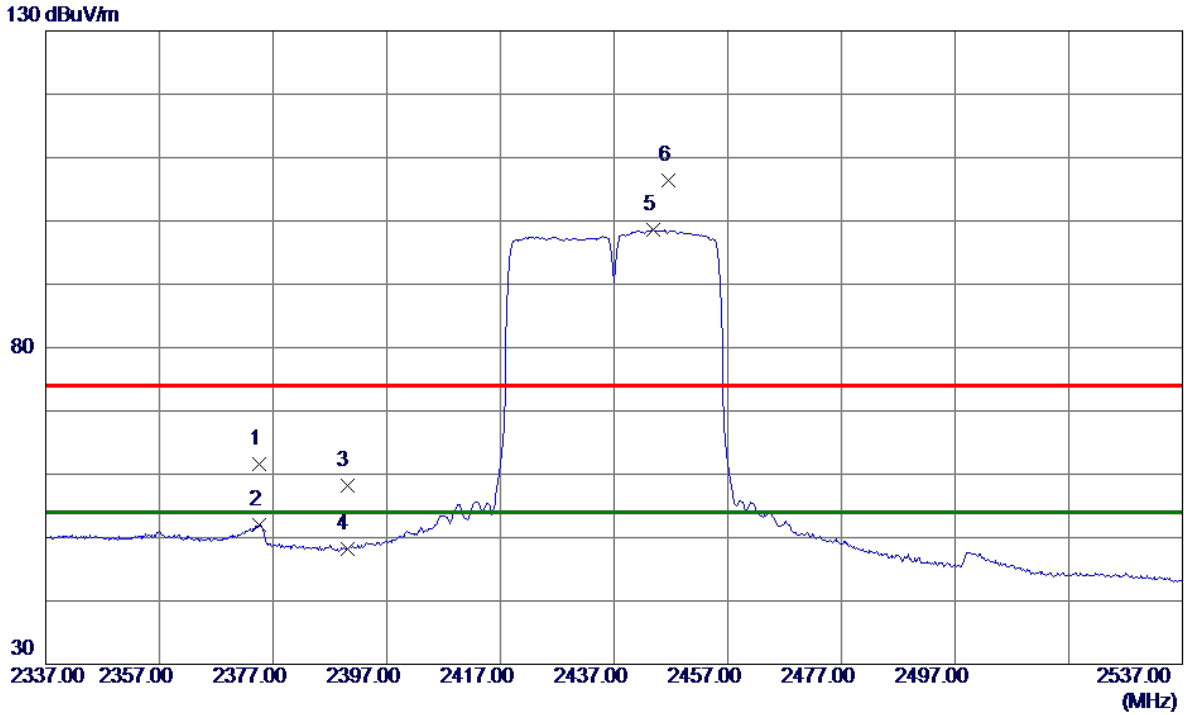
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4834.1500	39.43	5.28	44.71	74.00	-29.29	Peak	
2 *	4843.2400	28.91	5.33	34.24	54.00	-19.76	AVG	

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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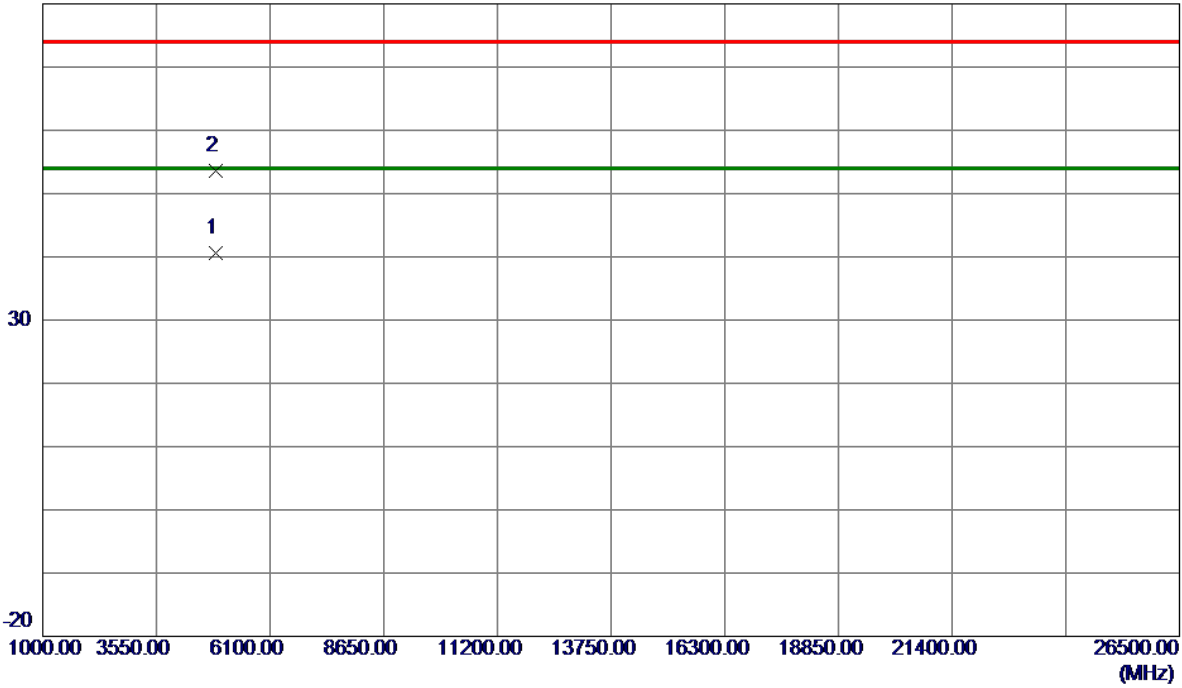
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2374.6000	53.34	8.29	61.63	74.00	-12.37	Peak	
2	2374.6000	43.70	8.29	51.99	54.00	-2.01	AVG	
3	2390.0000	49.92	8.31	58.23	74.00	-15.77	Peak	
4	2390.0000	39.85	8.31	48.16	54.00	-5.84	AVG	
5 *	2443.8000	90.27	8.37	98.64	54.00	44.64	AVG	No Limit
6	2446.6000	98.07	8.38	106.45	74.00	32.45	Peak	No Limit

**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

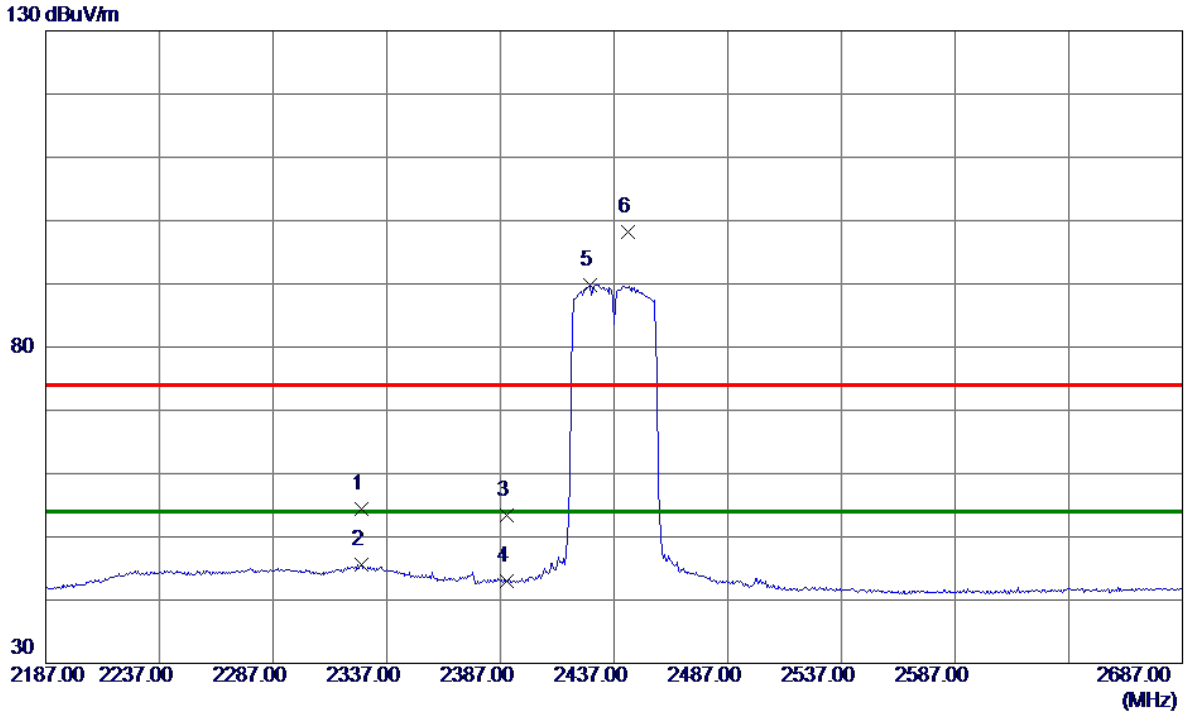


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4871.3300	35.17	5.47	40.64	54.00	-13.36	AVG	
2	4880.0500	48.01	5.51	53.52	74.00	-20.48	Peak	

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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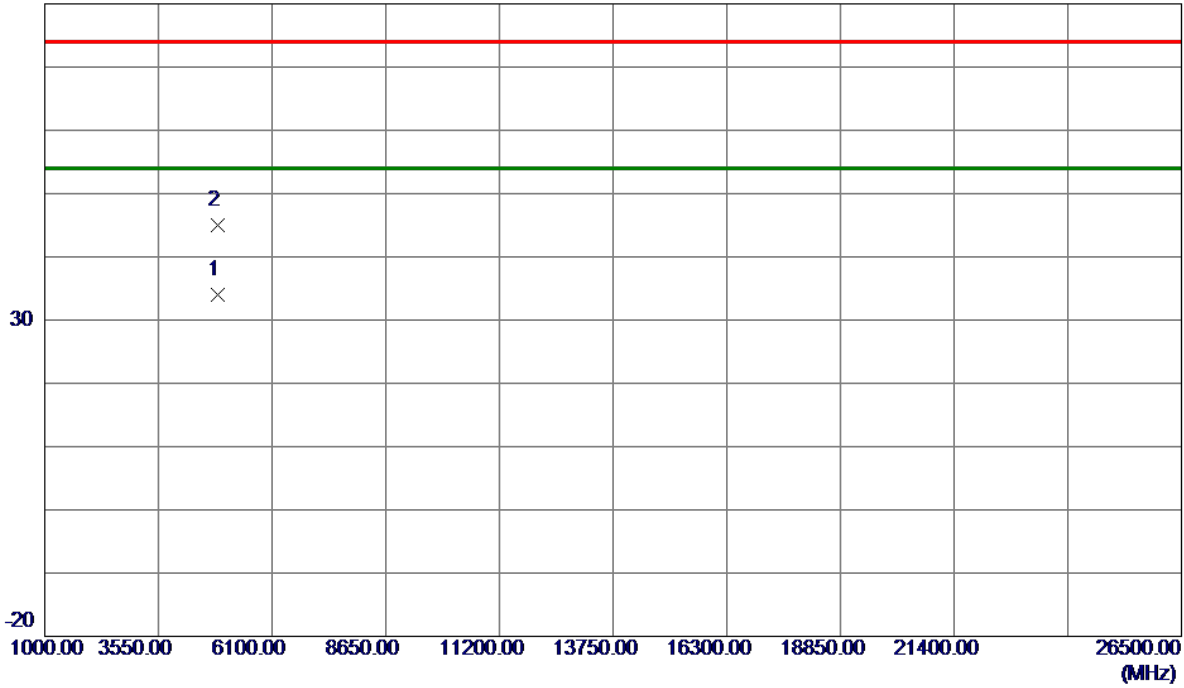
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2326.0000	46.11	8.22	54.33	74.00	-19.67	Peak	
2	2326.0000	37.40	8.22	45.62	54.00	-8.38	AVG	
3	2390.0000	45.00	8.31	53.31	74.00	-20.69	Peak	
4	2390.0000	34.74	8.31	43.05	54.00	-10.95	AVG	
5 *	2426.5000	81.48	8.35	89.83	54.00	35.83	AVG	No Limit
6	2443.0000	89.92	8.37	98.29	74.00	24.29	Peak	No Limit

**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

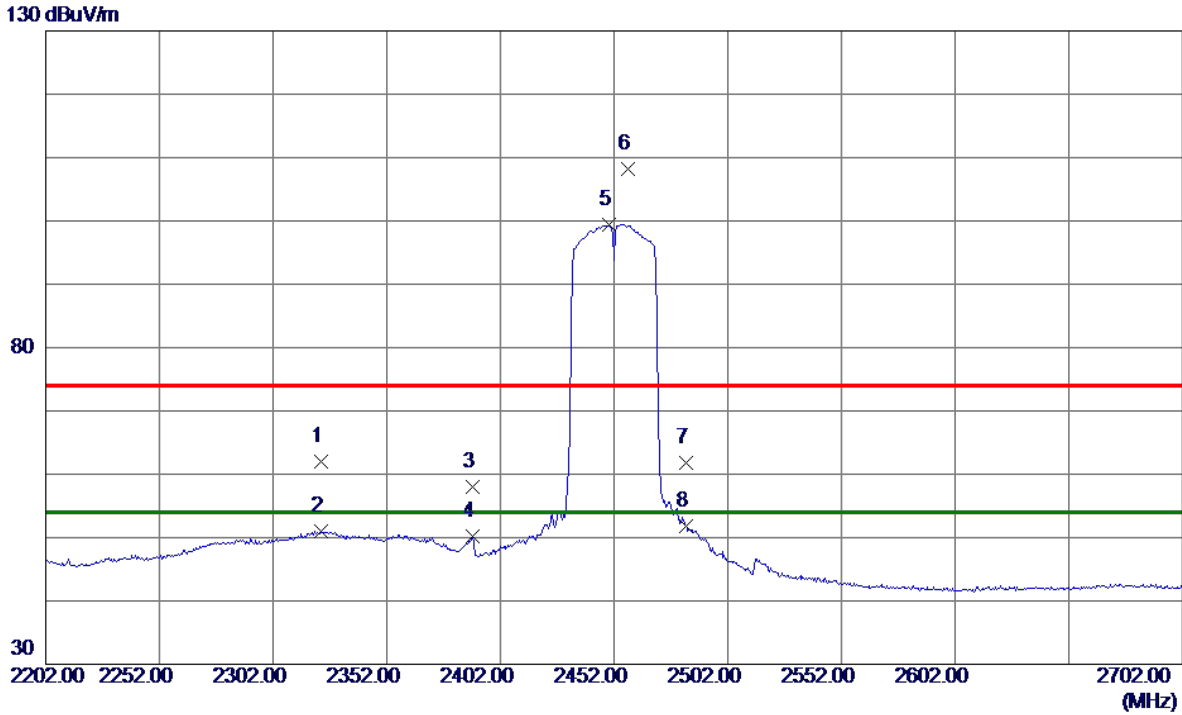


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4878.7900	28.48	5.51	33.99	54.00	-20.01	AVG	
2	4879.3900	39.54	5.51	45.05	74.00	-28.95	Peak	

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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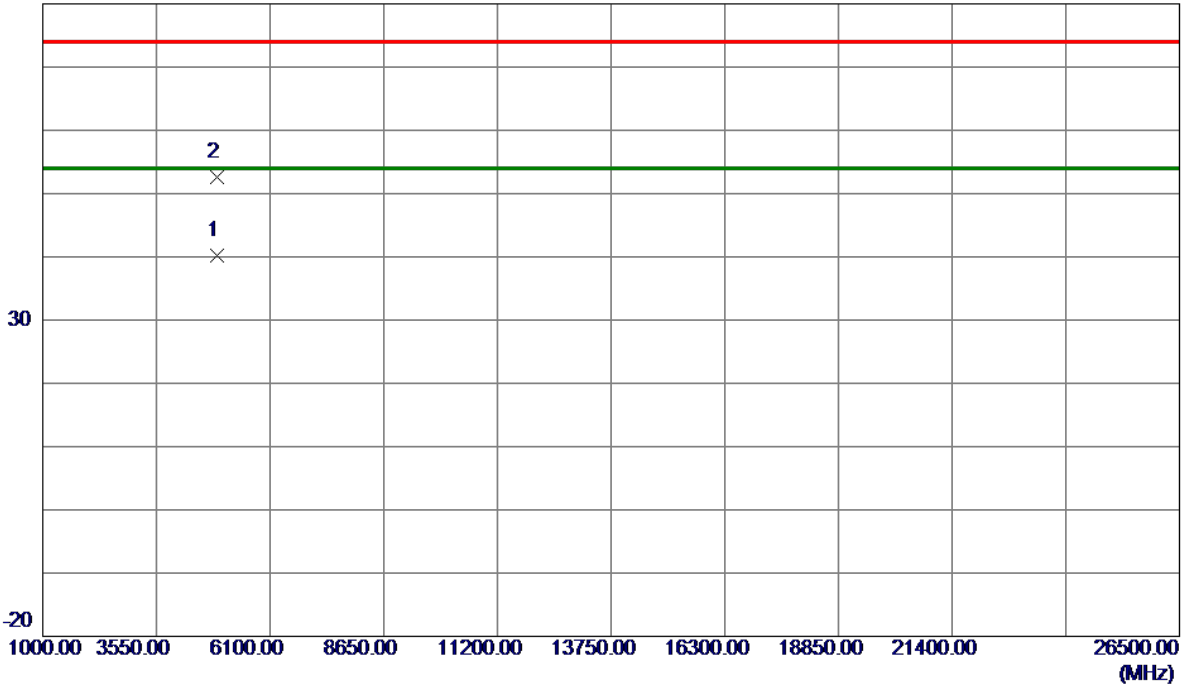
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2323.0000	53.71	8.22	61.93	74.00	-12.07	Peak	
2	2323.0000	42.70	8.22	50.92	54.00	-3.08	AVG	
3	2390.0000	49.62	8.31	57.93	74.00	-16.07	Peak	
4	2390.0000	41.85	8.31	50.16	54.00	-3.84	AVG	
5 *	2450.0000	91.02	8.38	99.40	54.00	45.40	AVG	No Limit
6	2458.0000	99.79	8.39	108.18	74.00	34.18	Peak	No Limit
7	2483.5000	53.39	8.42	61.81	74.00	-12.19	Peak	
8	2483.5000	43.42	8.42	51.84	54.00	-2.16	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

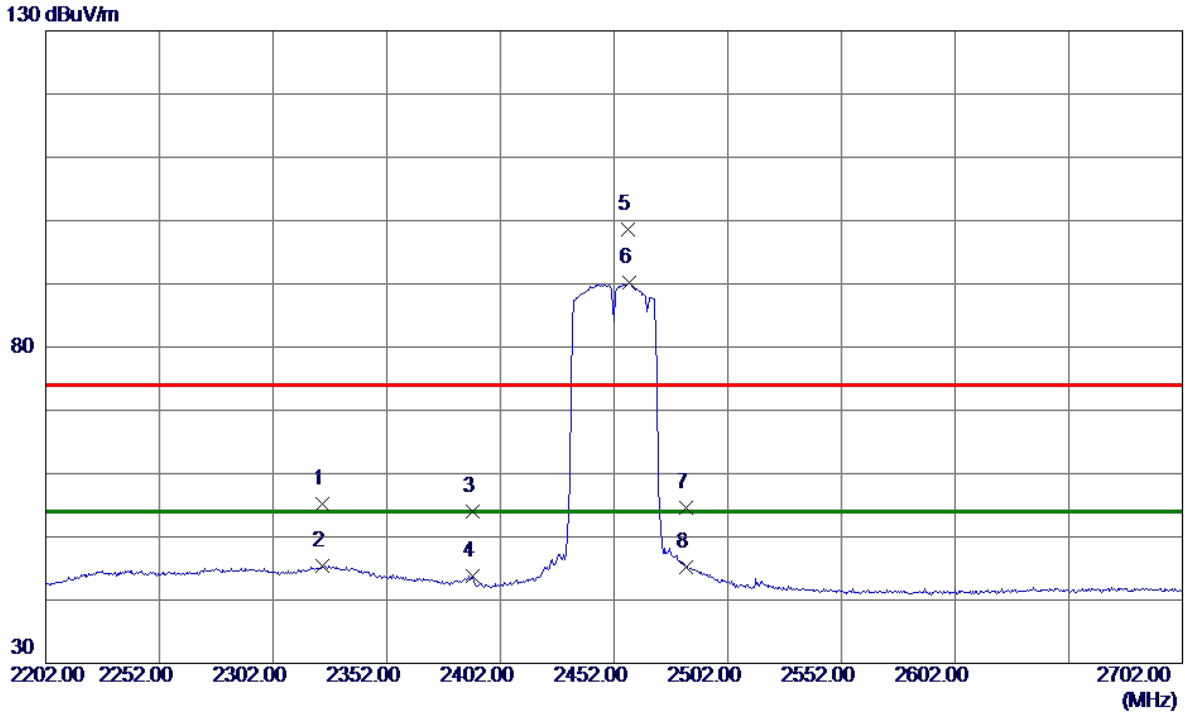


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4906.5700	34.52	5.65	40.17	54.00	-13.83	AVG	
2	4909.8100	47.00	5.66	52.66	74.00	-21.34	Peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Horizontal
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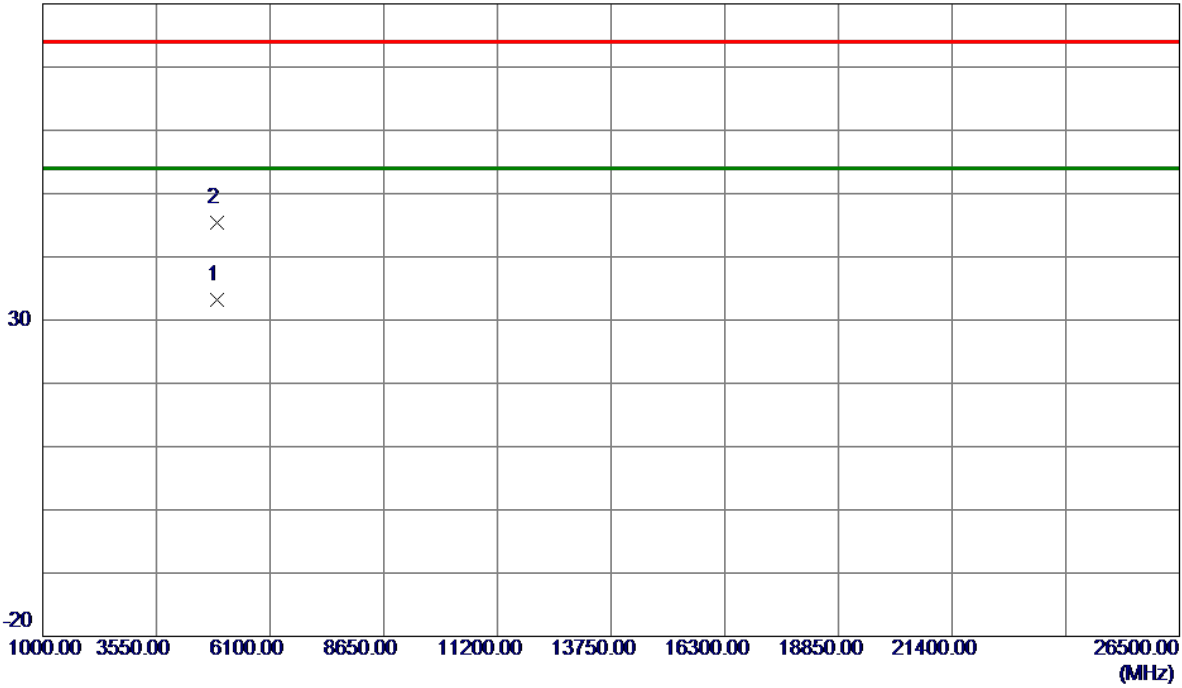
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2323.5000	46.92	8.22	55.14	74.00	-18.86	Peak	
2	2323.5000	37.15	8.22	45.37	54.00	-8.63	AVG	
3	2390.0000	45.67	8.31	53.98	74.00	-20.02	Peak	
4	2390.0000	35.41	8.31	43.72	54.00	-10.28	AVG	
5	2458.0000	90.19	8.39	98.58	74.00	24.58	Peak	No Limit
6 *	2458.5000	81.73	8.39	90.12	54.00	36.12	AVG	No Limit
7	2483.5000	46.27	8.42	54.69	74.00	-19.31	Peak	
8	2483.5000	36.81	8.42	45.23	54.00	-8.77	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 *	4906.5370	27.52	5.65	33.17	54.00	-20.83	AVG	
2	4909.9520	39.79	5.66	45.45	74.00	-28.55	Peak	

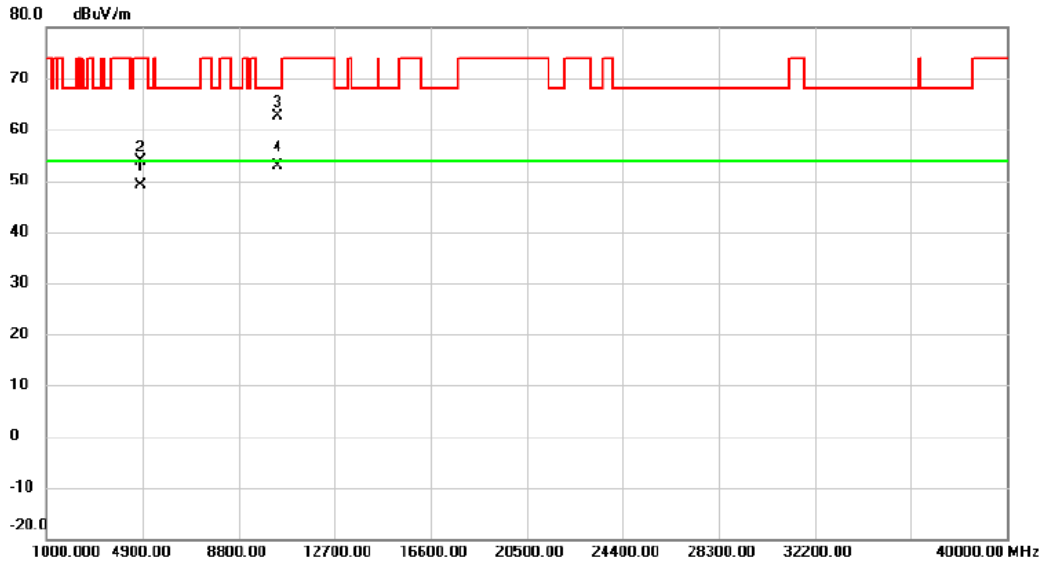
REMARKS:

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



The worst case of simultaneous transmission:

Test Mode	TX WLAN 2.4G B Mode 2412 MHz + WLAN 5G AC(VHT40) Mode 5190 MHz	Polarization	Vertical
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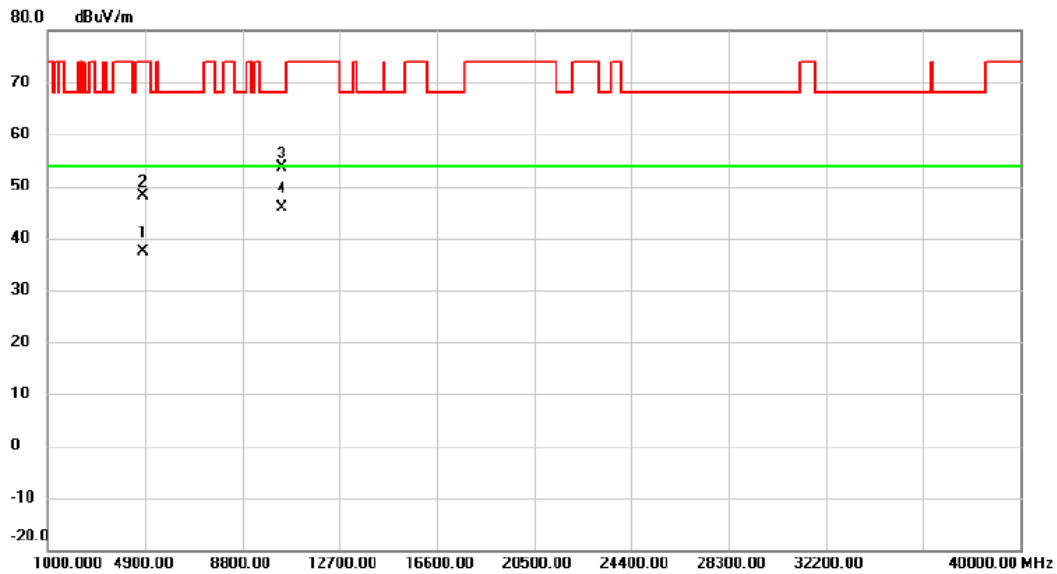


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.510	43.96	5.23	49.19	54.00	-4.81	AVG	
2		4825.260	48.75	5.24	53.99	74.00	-20.01	peak	
3		10378.620	49.17	13.47	62.64	68.20	-5.56	peak	
4	*	10379.240	39.53	13.47	53.00	54.00	-1.00	AVG	

REMARKS:

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

Test Mode	TX WLAN 2.4G B Mode 2412 MHz + WLAN 5G AC(VHT40) Mode 5190 MHz	Polarization	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.510	32.17	5.23	37.40	54.00	-16.60	AVG	
2		4824.660	42.94	5.23	48.17	74.00	-25.83	peak	
3		10377.590	40.27	13.47	53.74	68.20	-14.46	peak	
4	*	10378.110	32.34	13.47	45.81	54.00	-8.19	AVG	

**REMARKS:**

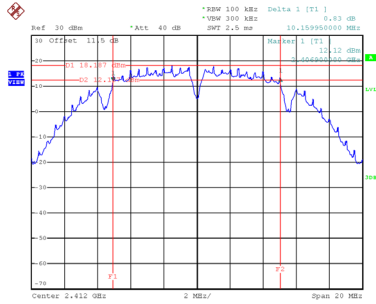
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## APPENDIX E - BANDWIDTH

Test Mode	TX B Mode
-----------	-----------

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	10.160	13.840	0.5	Complies
06	2437	10.120	13.760	0.5	Complies
11	2462	10.160	13.840	0.5	Complies

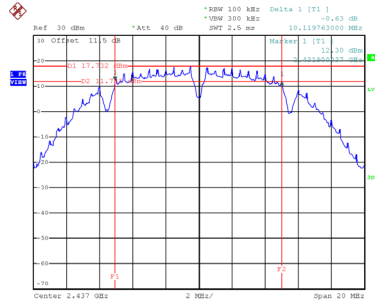
**CH01**



Date: 1.DEC.2021 20:34:22

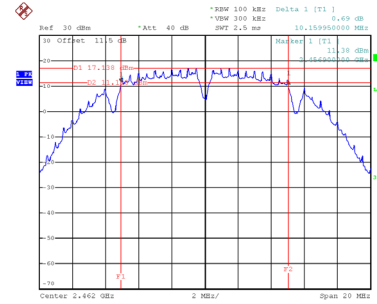
**CH06**

**6 dB Bandwidth**



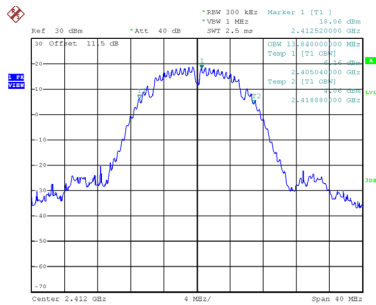
Date: 1.DEC.2021 20:43:37

**CH11**

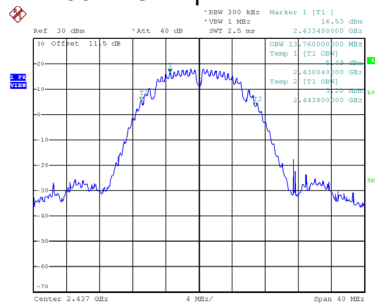


Date: 1.DEC.2021 20:45:08

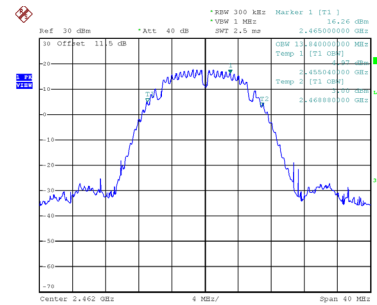
**99 % Occupied Bandwidth**



Date: 1.DEC.2021 20:34:29



Date: 1.DEC.2021 20:43:44

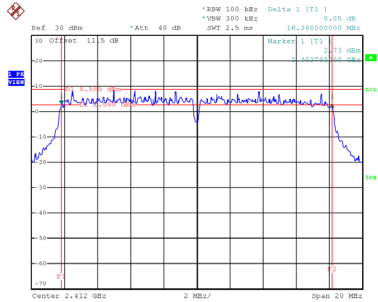


Date: 1.DEC.2021 20:45:15

Test Mode	TX G Mode
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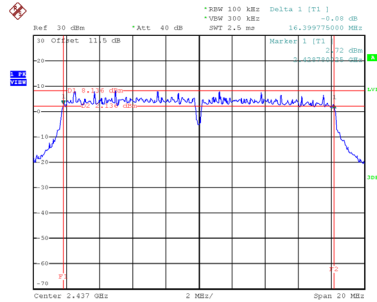
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.380	16.800	0.5	Complies
06	2437	16.400	16.800	0.5	Complies
11	2462	16.390	16.800	0.5	Complies

**CH01**



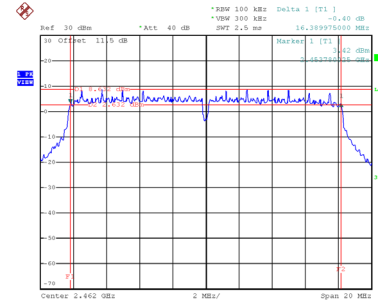
Date: 1.DEC.2021 20:47:38

**CH06**  
6 dB Bandwidth



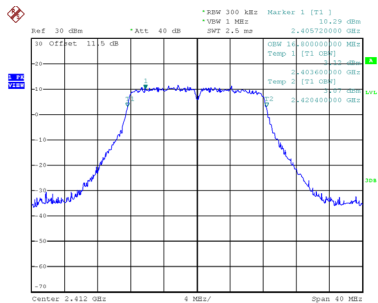
Date: 1.DEC.2021 20:51:56

**CH11**

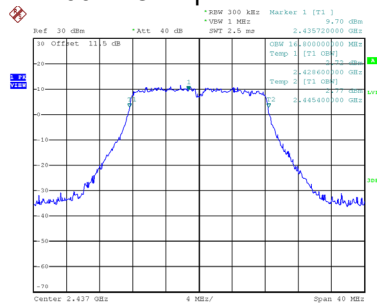


Date: 1.DEC.2021 20:53:21

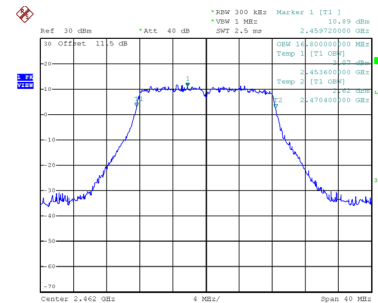
**99 % Occupied Bandwidth**



Date: 1.DEC.2021 20:47:44



Date: 1.DEC.2021 20:52:03

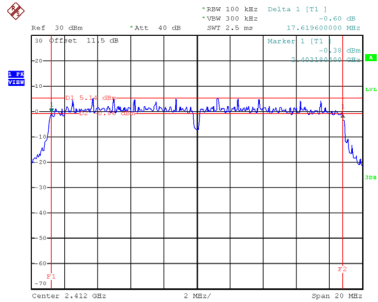


Date: 1.DEC.2021 20:53:28

Test Mode	TX N(HT20) Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.620	18.000	0.5	Complies
06	2437	17.600	18.000	0.5	Complies
11	2462	17.660	18.000	0.5	Complies

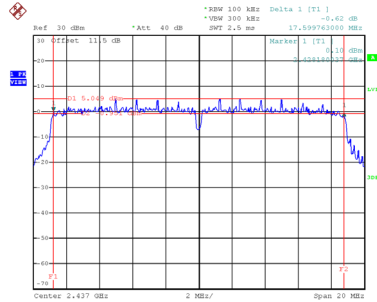
**CH01**



Date: 1.DEC.2021 20:56:01

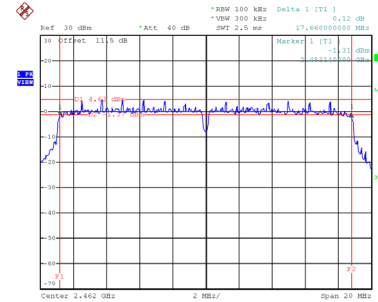
**CH06**

**6 dB Bandwidth**



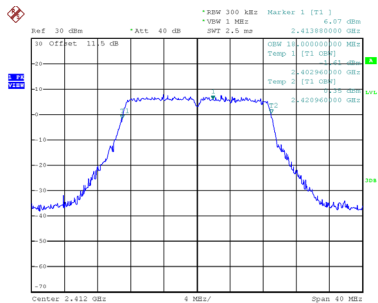
Date: 1.DEC.2021 20:58:01

**CH11**

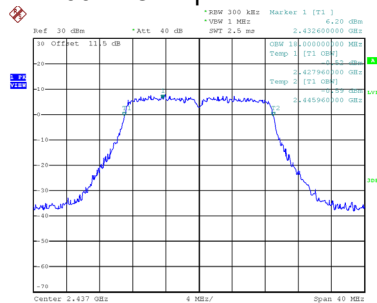


Date: 1.DEC.2021 21:03:34

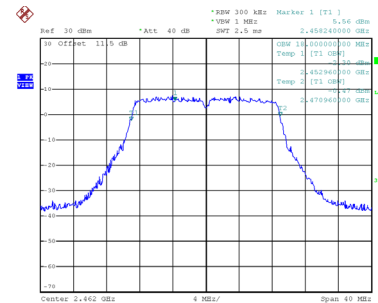
**99 % Occupied Bandwidth**



Date: 1.DEC.2021 20:56:08



Date: 1.DEC.2021 20:58:08

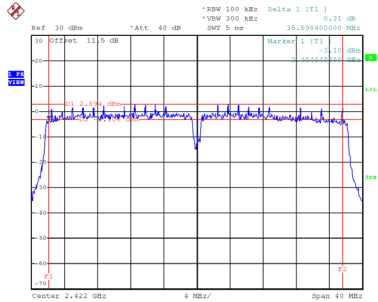


Date: 1.DEC.2021 21:03:41

Test Mode TX N(HT40) Mode

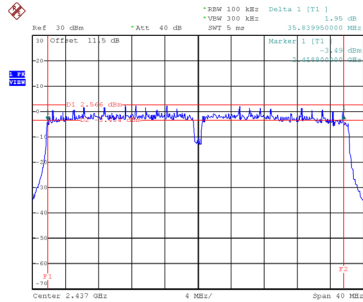
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	35.598	36.320	0.5	Complies
06	2437	35.840	36.320	0.5	Complies
09	2452	35.749	36.320	0.5	Complies

**CH03**



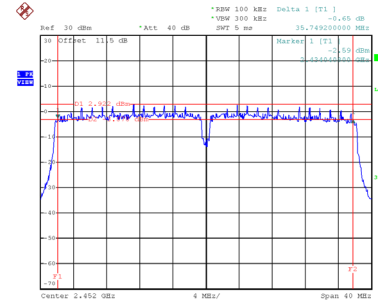
Date: 1.DEC.2021 21:05:05

**CH06**  
6 dB Bandwidth



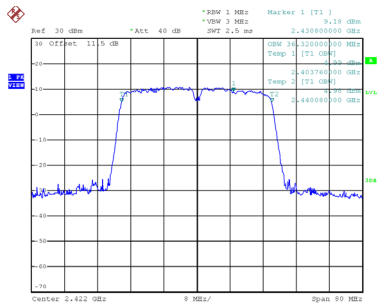
Date: 1.DEC.2021 21:06:25

**CH09**

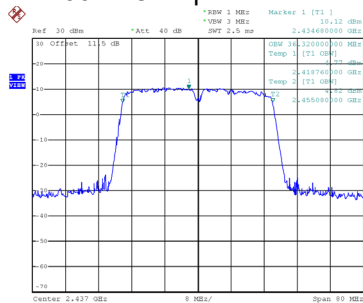


Date: 1.DEC.2021 21:07:45

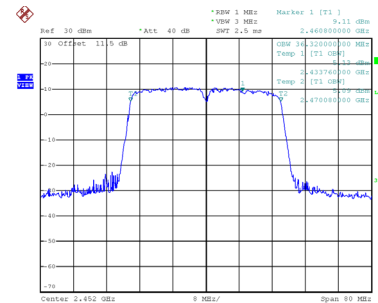
**99 % Occupied Bandwidth**



Date: 1.DEC.2021 21:05:11



Date: 1.DEC.2021 21:06:31



Date: 1.DEC.2021 21:07:51

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



**Non Beamforming**

Test Mode	TX B Mode
-----------	-----------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	20.27	30.00	1.0000	Complies
06	2437	19.01	30.00	1.0000	Complies
11	2462	17.72	30.00	1.0000	Complies

Test Mode	TX G Mode
-----------	-----------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	28.36	30.00	1.0000	Complies
06	2437	27.12	30.00	1.0000	Complies
11	2462	25.81	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 1
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	26.26	30.00	1.0000	Complies
06	2437	27.23	30.00	1.0000	Complies
11	2462	25.42	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	27.03	30.00	1.0000	Complies
06	2437	26.36	30.00	1.0000	Complies
11	2462	25.37	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	29.67	30.00	1.0000	Complies
06	2437	29.83	30.00	1.0000	Complies
11	2462	28.41	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 1
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	24.63	30.00	1.0000	Complies
06	2437	26.56	30.00	1.0000	Complies
09	2452	25.91	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	24.83	30.00	1.0000	Complies
06	2437	26.42	30.00	1.0000	Complies
09	2452	26.14	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	27.74	30.00	1.0000	Complies
06	2437	29.50	30.00	1.0000	Complies
09	2452	29.04	30.00	1.0000	Complies

Test Mode	TX B Mode
-----------	-----------

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.11	0.14	17.25	30.00	1.0000	Complies
06	2437	15.98	0.14	16.12	30.00	1.0000	Complies
11	2462	14.63	0.14	14.77	30.00	1.0000	Complies

Test Mode	TX G Mode
-----------	-----------

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.17	0.72	17.89	30.00	1.0000	Complies
06	2437	15.85	0.72	16.57	30.00	1.0000	Complies
11	2462	14.69	0.72	15.41	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 1
-----------	------------------------

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.28	0.79	15.07	30.00	1.0000	Complies
06	2437	15.14	0.79	15.93	30.00	1.0000	Complies
11	2462	14.02	0.79	14.81	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.13	0.79	15.92	30.00	1.0000	Complies
06	2437	15.97	0.79	16.76	30.00	1.0000	Complies
11	2462	14.35	0.79	15.14	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Average Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.53	30.00	1.0000	Complies
06	2437	19.38	30.00	1.0000	Complies
11	2462	17.99	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 1
-----------	------------------------

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	12.75	1.47	14.22	30.00	1.0000	Complies
06	2437	14.42	1.47	15.89	30.00	1.0000	Complies
09	2452	13.98	1.47	15.45	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	12.65	1.47	14.12	30.00	1.0000	Complies
06	2437	14.46	1.47	15.93	30.00	1.0000	Complies
09	2452	14.36	1.47	15.83	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Average Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.18	30.00	1.0000	Complies
06	2437	18.92	30.00	1.0000	Complies
09	2452	18.65	30.00	1.0000	Complies

### Beamforming

<b>Test Mode</b>	TX N(HT20) Mode_Ant. 1
------------------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	25.88	29.15	0.8222	Complies
06	2437	26.67	29.15	0.8222	Complies
11	2462	25.74	29.15	0.8222	Complies

<b>Test Mode</b>	TX N(HT20) Mode_Ant. 2
------------------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	26.33	29.15	0.8222	Complies
06	2437	25.36	29.15	0.8222	Complies
11	2462	24.90	29.15	0.8222	Complies

<b>Test Mode</b>	TX N(HT20) Mode_Total
------------------	-----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	29.12	29.15	0.8222	Complies
06	2437	29.07	29.15	0.8222	Complies
11	2462	28.35	29.15	0.8222	Complies

Test Mode	TX N(HT40) Mode_Ant. 1
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	24.59	29.15	0.8222	Complies
06	2437	25.88	29.15	0.8222	Complies
09	2452	25.80	29.15	0.8222	Complies

Test Mode	TX N(HT40) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	24.14	29.15	0.8222	Complies
06	2437	26.31	29.15	0.8222	Complies
09	2452	25.96	29.15	0.8222	Complies

Test Mode	TX N(HT40) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	27.38	29.15	0.8222	Complies
06	2437	29.11	29.15	0.8222	Complies
09	2452	28.89	29.15	0.8222	Complies



<b>Test Mode</b>	TX N(HT20) Mode_Ant. 1
------------------	------------------------

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.14	0.79	14.93	29.15	0.8222	Complies
06	2437	14.70	0.79	15.49	29.15	0.8222	Complies
11	2462	13.82	0.79	14.61	29.15	0.8222	Complies

<b>Test Mode</b>	TX N(HT20) Mode_Ant. 2
------------------	------------------------

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.81	0.79	15.60	29.15	0.8222	Complies
06	2437	14.81	0.79	15.60	29.15	0.8222	Complies
11	2462	14.10	0.79	14.89	29.15	0.8222	Complies

<b>Test Mode</b>	TX N(HT20) Mode_Total
------------------	-----------------------

Channel	Frequency (MHz)	Average Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.29	29.15	0.8222	Complies
06	2437	18.56	29.15	0.8222	Complies
11	2462	17.76	29.15	0.8222	Complies

Test Mode	TX N(HT40) Mode_Ant. 1
-----------	------------------------

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	12.60	1.47	14.07	29.15	0.8222	Complies
06	2437	14.23	1.47	15.70	29.15	0.8222	Complies
09	2452	13.81	1.47	15.28	29.15	0.8222	Complies

Test Mode	TX N(HT40) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	12.08	1.47	13.55	29.15	0.8222	Complies
06	2437	14.37	1.47	15.84	29.15	0.8222	Complies
09	2452	14.02	1.47	15.49	29.15	0.8222	Complies

Test Mode	TX N(HT40) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Average Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	16.82	29.15	0.8222	Complies
06	2437	18.78	29.15	0.8222	Complies
09	2452	18.39	29.15	0.8222	Complies

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