

# FCC Radio Test Report

## FCC ID: 2BH7FH110

**Report No.** : BTL-FCCP-2-2502G006  
**Equipment** : Smart IOT & IR Hub  
**Model Name** : Tapo H110  
**Brand Name** : tp-link, tapo  
**Applicant** : TP-Link Systems Inc.  
**Address** : 10 Mauchly, Irvine, CA 92618  
**Manufacturer** : TP-Link Systems Inc.  
**Address** : 10 Mauchly, Irvine, CA 92618

**Radio Function** : WLAN 2.4GHz

**FCC Rule Part(s)** : FCC CFR Title 47, Part 15, Subpart C (15.247)  
**Measurement** : ANSI C63.10-2013  
**Procedure(s)** :

**Date of Receipt** : 2025/2/25  
**Date of Test** : 2025/3/6 ~ 2025/3/11  
**Issued Date** : 2025/4/14

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

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

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**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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**REVISION HISTORY**

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2502G006	R00	Original Report.	2025/4/14	Valid

## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

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

Note:

- (1) "N/A" denotes test is not applicable to this device.
- (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 locations stated below are under the TAF Accreditation Number 0659.

The test location(s) used to collect the test data in this report are:

No. 64, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (FCC DN: TW0659)

☒ C01 ☒ CB20

No. 68-2, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (FCC DN: TW0659)

☒ SR06

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k = 2$ , providing a level of confidence of approximately **95 %**.

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2  $U_{\text{CISPR}}$  requirement.

### A. AC Power Line Conducted Emissions Measurement:

Test Site	Method	Measurement Frequency Range	U (dB)
C01	CISPR	150 kHz ~ 30MHz	3.44

### B. Radiated emissions Measurement:

Test Site	Measurement Frequency Range (GHz)	U (dB)
CB20 (3m)	0.03~0.2	4.01
	0.02~1	4.64
	1 ~ 6	5.91
	6 ~ 18	6.24
	18 ~ 26	3.93
	26 ~ 40	4.06

### C. Other Measurement:

Test Item	U
Occupied Bandwidth	86 %
Output power	0.8412 dB
Power Spectral Density	0.8602 dB
Conducted Spurious emissions	1.8304 dB
Conducted Band edges	1.8338 dB

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	Environment Condition	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C, 45%	AC 120V/60Hz	Benny Cao
Radiated Emissions-30 MHz to 1000 MHz	25°C, 65%	AC 120V/60Hz	Benny Cao
Radiated Emissions-Above 1000 MHz	25°C, 65%	AC 120V/60Hz	Benny Cao
Bandwidth	25°C, 50%	AC 120V/60Hz	Cheng Tsai
Maximum Output Power	25°C, 60%	AC 120V/60Hz	Jeremy Li
Conducted Spurious Emission	25°C, 50%	AC 120V/60Hz	Cheng Tsai
Power Spectral Density	25°C, 50%	AC 120V/60Hz	Cheng Tsai



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart IOT & IR Hub
Brand Name	tp-link, tapo
Model Name	Tapo H110
Model Difference(s)	N/A
Software Version	1.X
Hardware Version	1.0
Power Source	Supplied from USB port.
Power Rating	5V $\overline{=}$ 2A
Operation Band	2400 MHz ~ 2483.5 MHz
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 72.2 Mbps
Maximum Output Power	IEEE 802.11b: 19.33 dBm (0.0857 W)
Test Model	Tapo H110

Note:

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

#### 2. Channel List:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

#### 3. Antenna Specification:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	tp-link	6035500079	PIFA	N/A	2.00

Note: The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

## 2.2 DESCRIPTION OF TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal	-	-
Transmitter Radiated Emissions (below 1GHz)	IEEE 802.11b	01	-
Transmitter Radiated Emissions (above 1GHz)	IEEE 802.11b	01/11	Bandedge
	IEEE 802.11g		
	IEEE 802.11n(HT20)		
	IEEE 802.11b	01/06/11	Harmonic
	IEEE 802.11g		
	IEEE 802.11n(HT20)		
Transmitter Radiated Emissions (above 18GHz)	IEEE 802.11b	01	-
Bandwidth & Output Power & Power Spectral Density & Conducted Spurious Emission	IEEE 802.11b	01/06/11	-
	IEEE 802.11g		
	IEEE 802.11n (HT20)		

### 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 radiated emission below 1 GHz test, the TX B Mode Channel 01 is found to be the worst case and recorded.
- (3) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.
- (4) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Horizontal) is recorded.

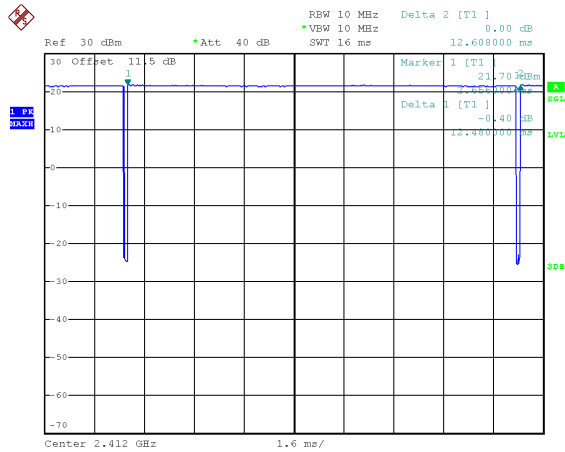
## 2.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	UI_mptool 1.0.0.1		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	98	97	97
IEEE 802.11g	100	110	93
IEEE 802.11n(HT20)	105	105	94

## 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.

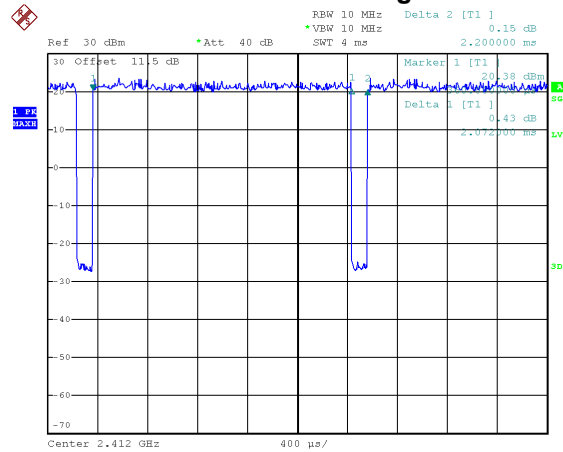
IEEE 802.11b



Date: 13.MAR.2025 10:17:58

Duty cycle =  $12.480 \text{ ms} / 12.608 \text{ ms} = 98.98\%$   
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.00$

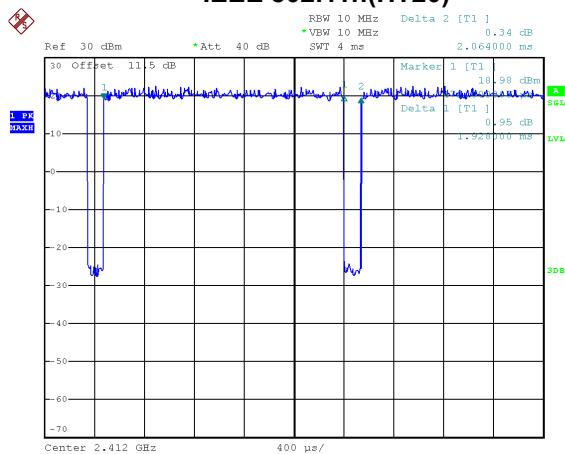
IEEE 802.11g



Date: 13.MAR.2025 10:38:28

Duty cycle =  $2.072 \text{ ms} / 2.200 \text{ ms} = 94.18\%$   
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.26$

IEEE 802.11n(HT20)



Date: 13.MAR.2025 10:53:01

Duty cycle =  $1.928 \text{ ms} / 2.064 \text{ ms} = 93.41\%$   
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.30$

**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 1 kHz.

For IEEE 802.11g:

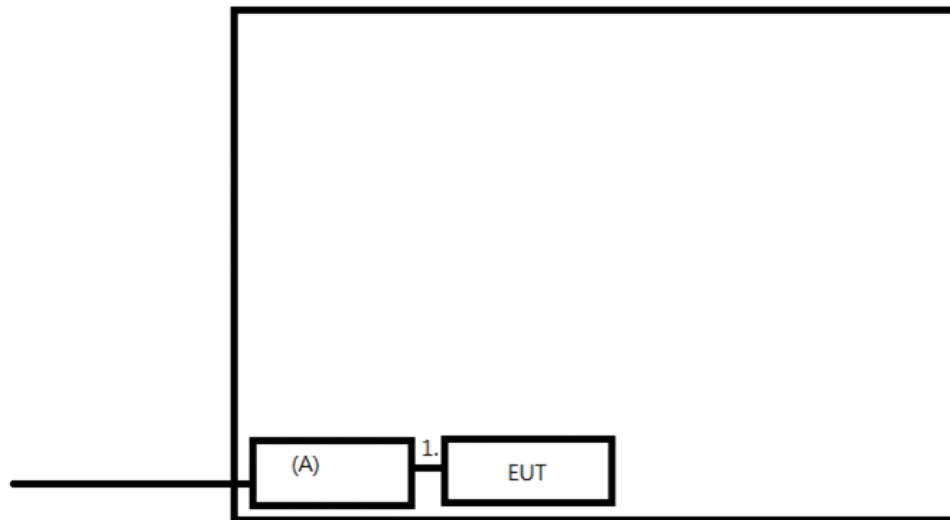
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 483 Hz.

For IEEE 802.11n(HT20):

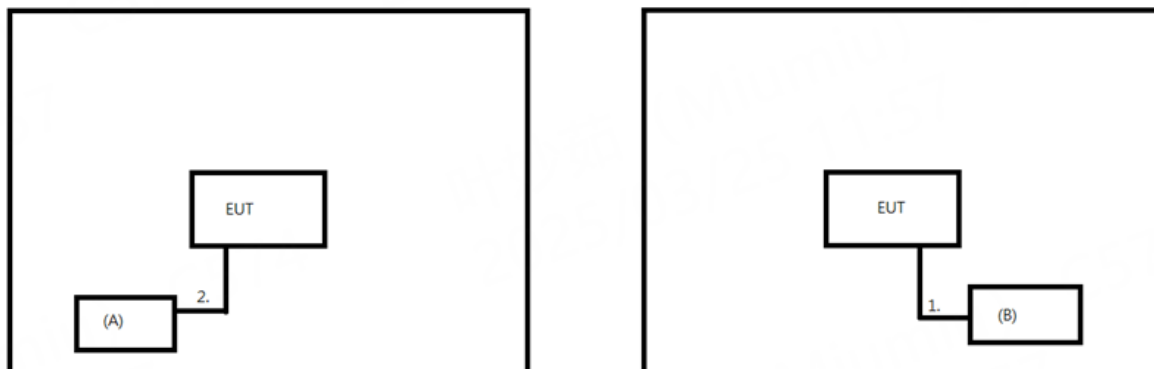
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 519 Hz.

## 2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

### AC Power Line Conducted Emissions



### Radiated Emissions



## 2.6 SUPPORT UNITS

### AC Power Line Conducted Emissions

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Adapter	DVE	DSA-10PF06-05 FUS	N/A	Supplied by test requester

Item	Cable Type	Shielded	Ferrite Core	Length	Remarks
1	Type-C	NO	NO	1.6m	Supplied by test requester

### Radiated Emissions

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Notebook	Dynabook	TECRA-A40-J	N/A	Furnished by test lab
B	Adapter	DVE	DSA-10PF06-05 FUS	N/A	Supplied by test requester

Item	Cable Type	Shielded	Ferrite Core	Length	Remarks
1	Type-C	NO	NO	1.6m	Supplied by test requester
2	Fixture	NO	NO	0.03m	Furnished by test lab

### 3. AC POWER LINE CONDUCTED EMISSIONS

#### 3.1 LIMIT

Frequency of Emission (MHz)	Limit (dBμV)	
	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) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)  
 Margin Level = Measurement Value – Limit Value

Calculation example:

Reading Level (dBuV)		Correct Factor (dB)		Measurement Value (dBuV)
38.22	+	3.45	=	41.67

Measurement Value (dBuV)		Limit Value (dBuV)		Margin Level (dB)
41.67	-	60	=	-18.33

#### 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.

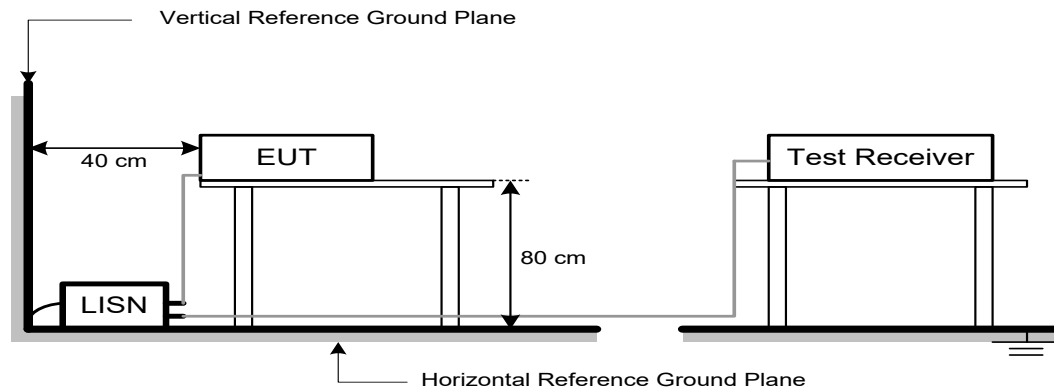
The following table is the setting of the receiver:

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)	Band edge/ Harmonic at 3m (dBuV/m)		Harmonic at 1m (dBuV/m)	
	Peak	Average	Peak	Average
Above 1000	74	54	83.5 (Note 5)	63.5 (Note 5)

#### 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

Calculation example:

Reading Level (dBuV)		Correct Factor (dB/m)		Measurement Value (dBuV/m)
19.11	+	2.11	=	21.22

Measurement Value (dBuV/m)		Limit Value (dBuV/m)		Margin Level (dB)
21.22	-	54	=	-32.78

(5)

$$FS_{\text{limit}} = FS_{\text{max}} - 20\log\left(\frac{d_{\text{limit}}}{d_{\text{measure}}}\right)$$

$20\log(d_{\text{limit}}/d_{\text{measure}})=20\log(3/1)=9.5\text{ dB}$ .

$FS_{\text{limit}}$ : Harmonic at 3m Peak and Average limit.

$FS_{\text{max}}$ : Harmonic at 1m Peak and Average Maximum value.

$d_{\text{limit}}$ : Harmonic at 3m test distance.

$d_{\text{measure}}$ : Harmonic Actual test distance.



## 4.2 TEST PROCEDURE

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

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

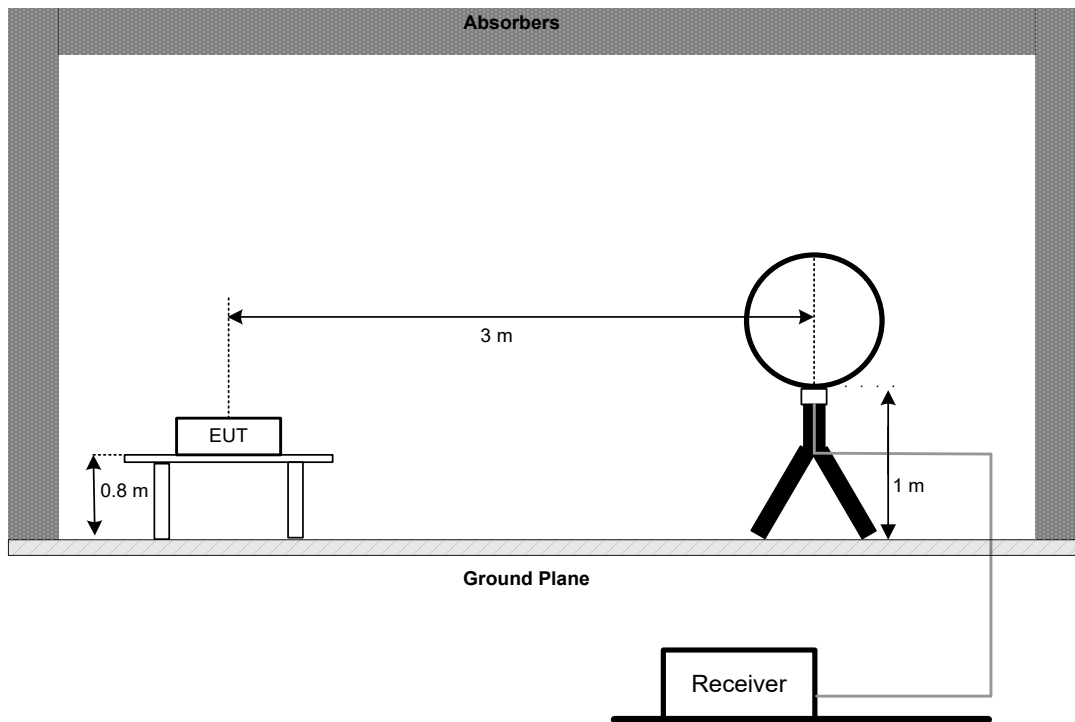
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

## 4.3 DEVIATION FROM TEST STANDARD

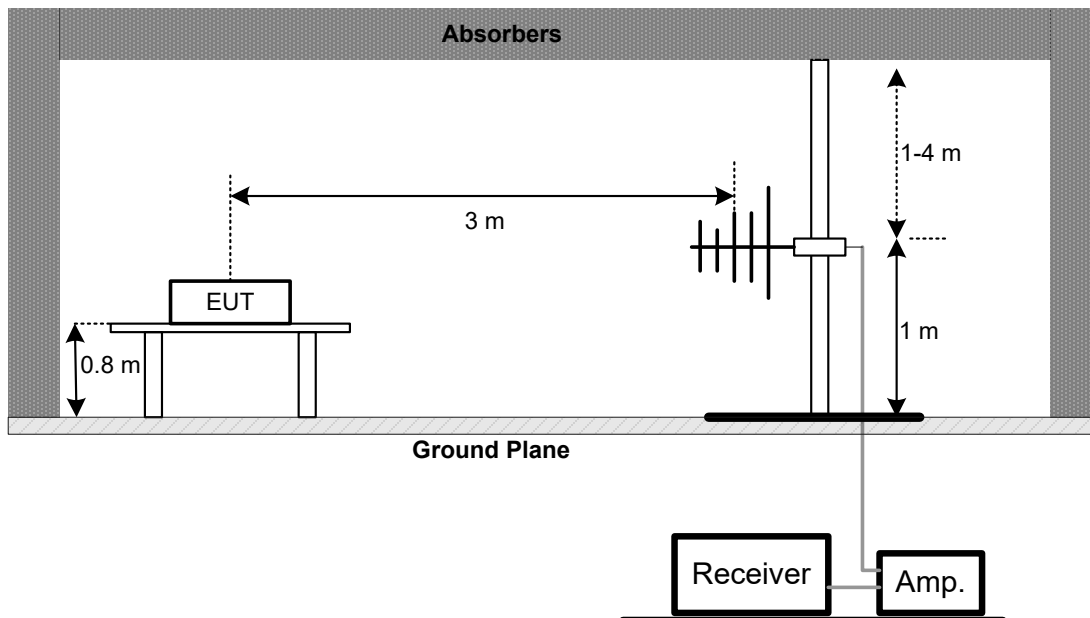
No deviation.

## 4.4 TEST SETUP

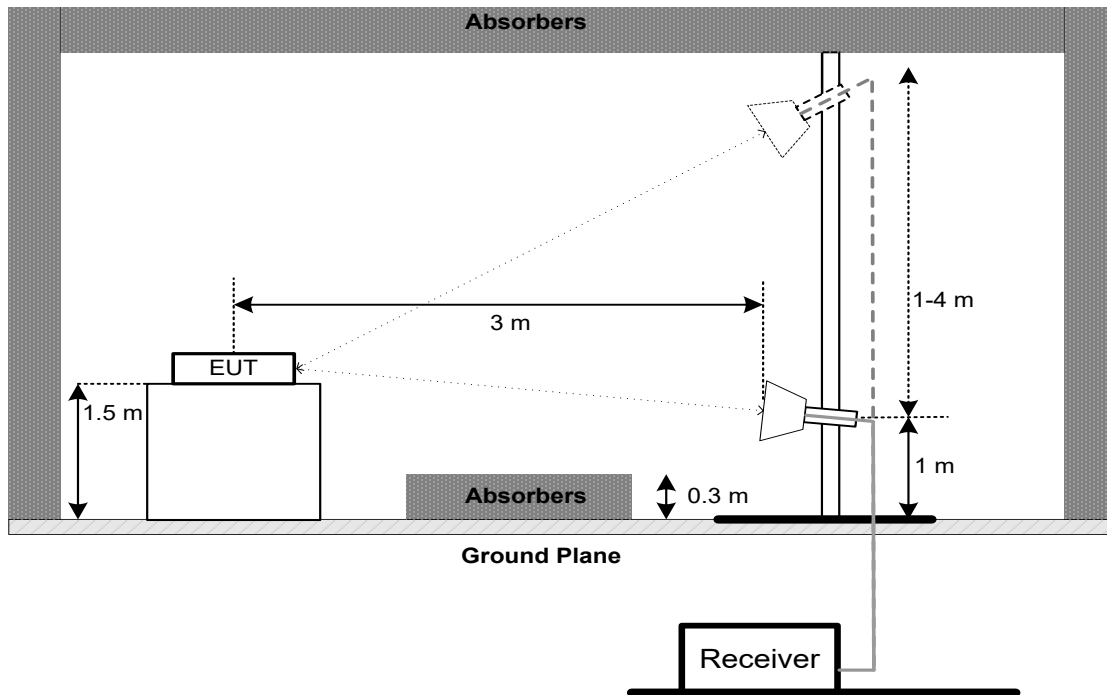
9 kHz to 30 MHz



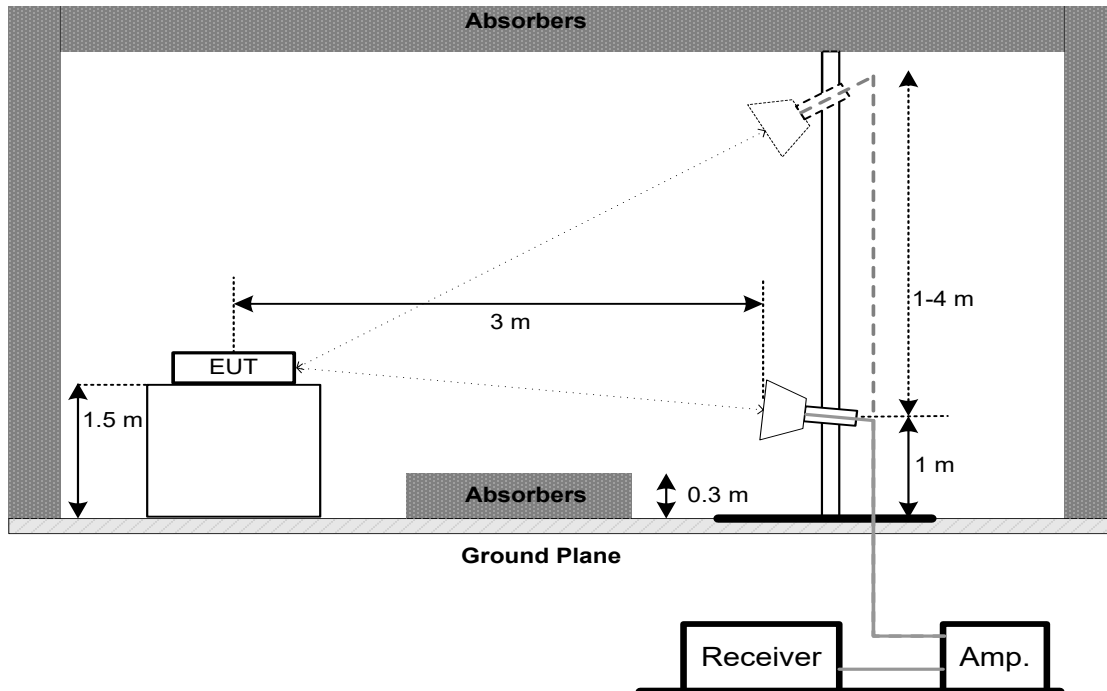
30 MHz to 1 GHz



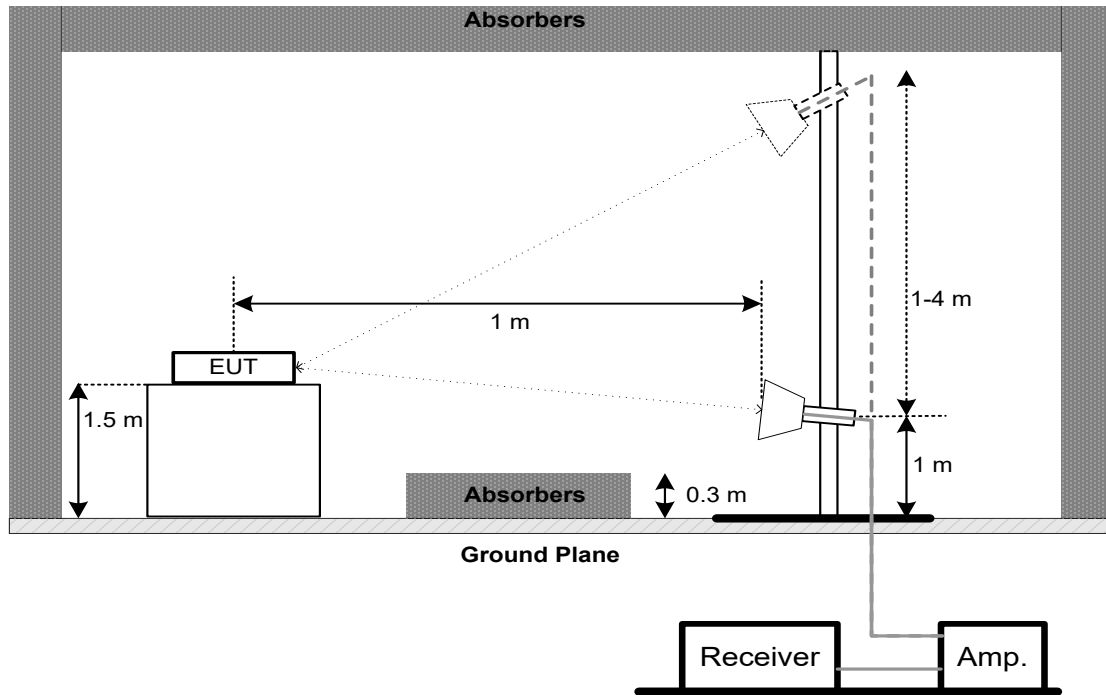
## Above 1 GHz Band edge



## Harmonic(1 GHz to 18 GHz)



### Harmonic(18 GHz to 26.5 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

There were no emissions found below 30 MHz within 20 dB of the limit.

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

Please refer to the APPENDIX B.

#### 4.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX C.

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
VBW	1 MHz
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 D.

## 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

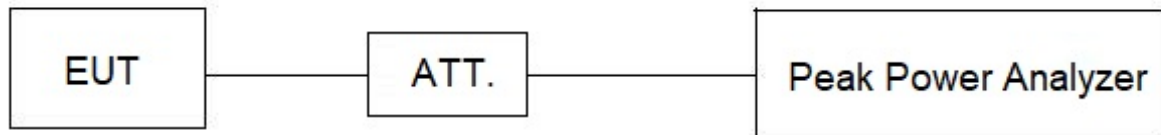
### 6.2 TEST PROCEDURE

- The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.2.3.1 of ANSI C63.10-2013.

### 6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 6.6 TEST RESULTS

Please refer to the APPENDIX E.

## 7. CONDUCTED SPURIOUS EMISSIONS

### 7.1 LIMIT

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

### 7.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- 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 F.

## 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
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 G.



## 9. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Two-Line V-Network	R&S	ENV216	101051	2024/6/26	2025/6/25
2	Test Cable	EMCI	EMCRG58-BM-B M-9000	210501	2024/12/10	2025/12/9
3	EMC Receiver	Keysight	N9038A	MY54130009	2024/6/27	2025/6/26
4	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions - Below 1GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01207	2024/12/4	2025/12/3
2	EMC Receiver	Keysight	N9038A	MY54130009	2024/6/27	2025/6/26
3	Pre-Amplifier	EMCI	EMC001330-202 01222	980807	2024/12/9	2025/12/8
4	Test Cable	EMCI	EMC-8D-NM-NM -5000	150106	2024/12/9	2025/12/8
5	Test Cable	EMCI	EMC-CFD-400-N M-NM-8000	200348	2024/12/9	2025/12/8
6	Test Cable	EMCI	EMC-CFD-400-N M-NM-3300	200343	2024/12/9	2025/12/8
7	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions - Above 1GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Broad-Band Horn Antenna	RFSPIN	DRH18-E	210109A18E	2025/1/14	2026/1/13
2	Pre-Amplifier	EMCI	EMC118A45SE	981030	2024/12/10	2025/12/9
3	Test Cable	EMCI	EMC105-SM-SM-1000	210119	2024/12/10	2025/12/9
4	Test Cable	EMCI	EMC105-SM-SM-3000	210118	2024/12/10	2025/12/9
5	Test Cable	EMCI	EMC105-SM-SM-7000	210117	2024/12/10	2025/12/9
6	EXA Spectrum Analyzer	keysight	N9020B	MY59050137	2024/11/24	2025/11/25
7	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions - Above 18GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Pre-Amplifier	EMCI	EMC184045SE	980512	2024/12/10	2025/12/9
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	340	2024/6/27	2025/6/26
3	Test Cable	EMCI	EMC102-KM-KM-1000	220328	2024/12/10	2025/12/9
4	Test Cable	EMCI	EMC101G-KM-KM-3000	220330	2024/12/10	2025/12/9
5	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Bandwidth & Conducted Spurious Emission & Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 30	100854	2024/6/27	2025/6/26
2	10dbAttenuator	INMET	AHC-10dB	1	2024/11/26	2025/11/25

Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	USB Peak Power Sensor	Anritsu	MA24408A	12589	2024/10/25	2025/10/24
2	10dbAttenuator	INMET	AHC-10dB	1	2024/11/26	2025/11/25

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**

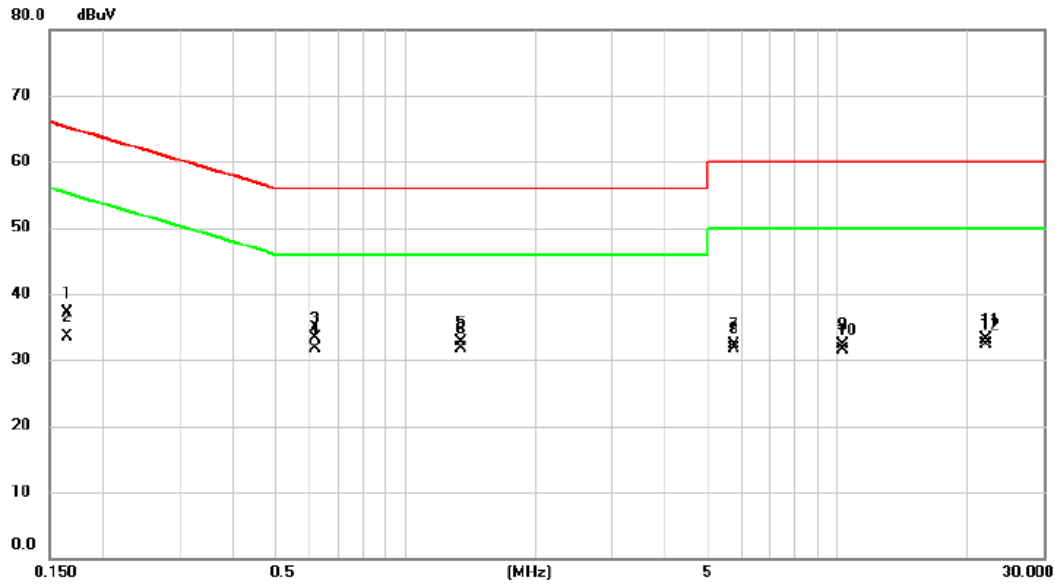
Please refer to document Appendix No.: TP-2502G006-1 (APPENDIX-TEST PHOTOS).

**11. EUT PHOTOS**

Please refer to document Appendix No.: EP-2502G006-1 (APPENDIX-EUT PHOTOS).

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

Test Mode	Normal	Tested Date	2025/3/11
Test Frequency	-	Phase	Line



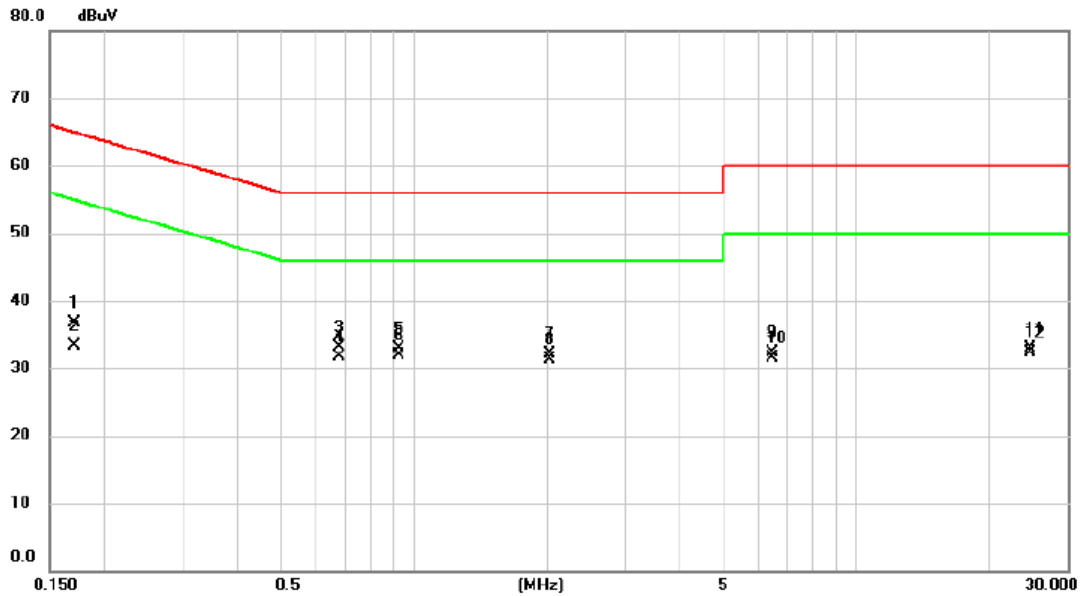
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1654	27.40	9.64	37.04	65.19	-28.15	QP	
2		0.1654	23.78	9.64	33.42	55.19	-21.77	AVG	
3		0.6170	23.65	9.62	33.27	56.00	-22.73	QP	
4	*	0.6170	22.16	9.62	31.78	46.00	-14.22	AVG	
5		1.3460	23.08	9.66	32.74	56.00	-23.26	QP	
6		1.3460	22.12	9.66	31.78	46.00	-14.22	AVG	
7		5.7750	22.51	9.85	32.36	60.00	-27.64	QP	
8		5.7750	21.82	9.85	31.67	50.00	-18.33	AVG	
9		10.2750	22.37	9.99	32.36	60.00	-27.64	QP	
10		10.2750	21.60	9.99	31.59	50.00	-18.41	AVG	
11		22.0500	22.71	10.35	33.06	60.00	-26.94	QP	
12		22.0500	22.01	10.35	32.36	50.00	-17.64	AVG	

## REMARKS:

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

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

Test Mode	Normal	Tested Date	2025/3/11
Test Frequency	-	Phase	Neutral



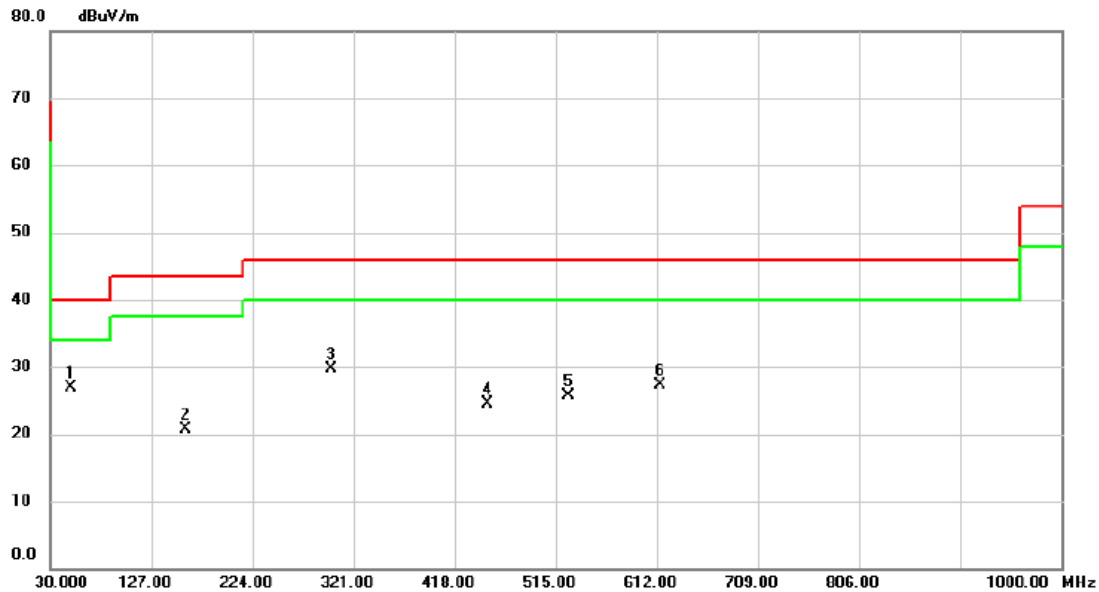
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1706	27.14	9.62	36.76	64.93	-28.17	QP	
2		0.1706	23.63	9.62	33.25	54.93	-21.68	AVG	
3		0.6800	23.58	9.61	33.19	56.00	-22.81	QP	
4		0.6800	22.19	9.61	31.80	46.00	-14.20	AVG	
5		0.9230	23.38	9.62	33.00	56.00	-23.00	QP	
6	*	0.9230	22.28	9.62	31.90	46.00	-14.10	AVG	
7		2.0210	22.33	9.72	32.05	56.00	-23.95	QP	
8		2.0210	21.63	9.72	31.35	46.00	-14.65	AVG	
9		6.4500	22.40	9.87	32.27	60.00	-27.73	QP	
10		6.4500	21.70	9.87	31.57	50.00	-18.43	AVG	
11		24.7250	22.53	10.44	32.97	60.00	-27.03	QP	
12		24.7250	21.80	10.44	32.24	50.00	-17.76	AVG	

## REMARKS:

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

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

Test Mode	TX B Mode	Test Date	2025/3/7
Test Frequency	2412 MHz	Polarization	Vertical



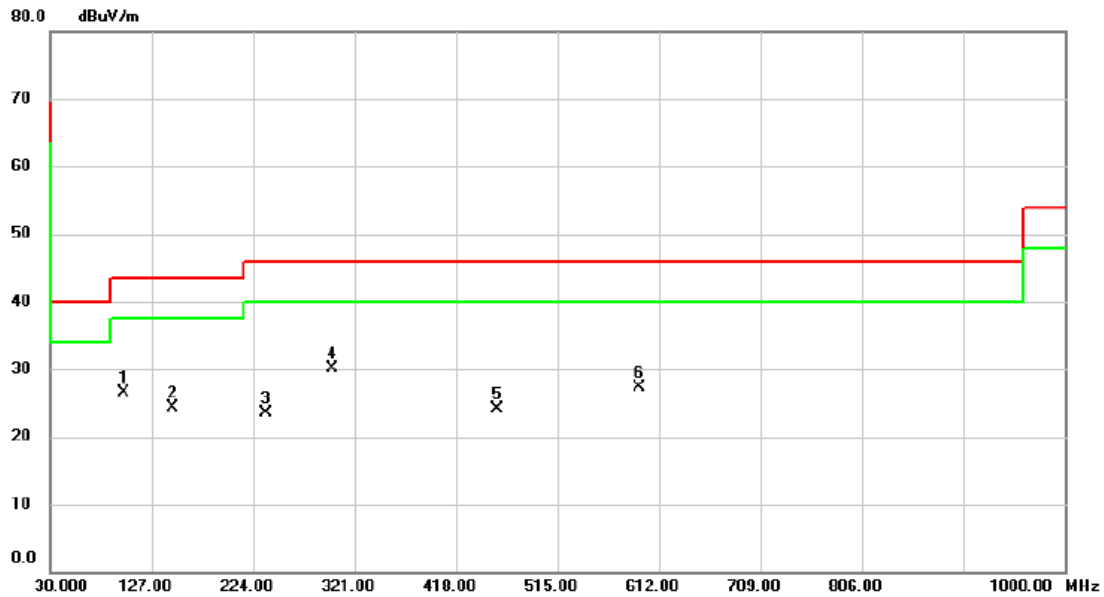
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	49.4000	38.26	-11.37	26.89	40.00	-13.11	peak	
2		159.9800	31.79	-11.11	20.68	43.50	-22.82	peak	
3		299.6600	39.76	-10.00	29.76	46.00	-16.24	peak	
4		450.0100	30.19	-5.71	24.48	46.00	-21.52	peak	
5		526.6400	30.12	-4.43	25.69	46.00	-20.31	peak	
6		614.9100	29.33	-1.94	27.39	46.00	-18.61	peak	

## REMARKS:

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



Test Mode	TX B Mode	Test Date	2025/3/7
Test Frequency	2412 MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		99.8400	42.58	-16.12	26.46	43.50	-17.04	peak	
2		146.4000	35.66	-11.31	24.35	43.50	-19.15	peak	
3		236.6100	36.22	-12.62	23.60	46.00	-22.40	peak	
4	*	299.6600	40.07	-10.00	30.07	46.00	-15.93	peak	
5		456.8000	29.68	-5.62	24.06	46.00	-21.94	peak	
6		593.5700	29.75	-2.50	27.25	46.00	-18.75	peak	

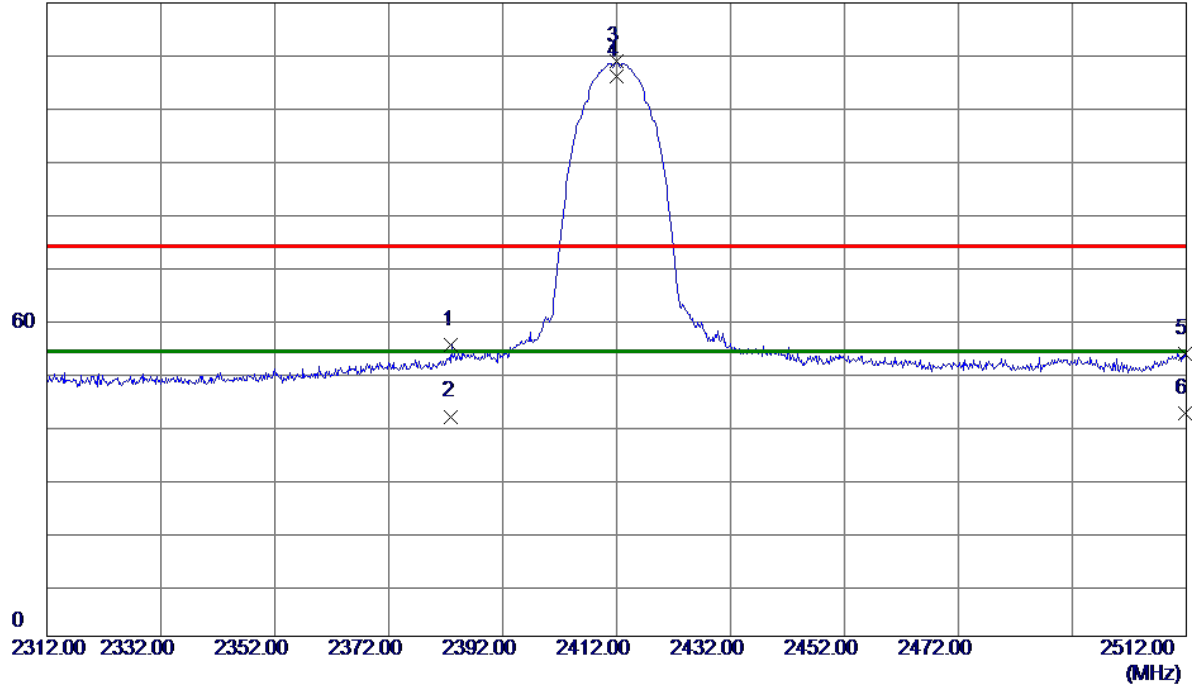
## REMARKS:

- (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	Test Date	2025/3/11
Test Frequency	2412 MHz	Polarization	Horizontal

120 dBuV/m



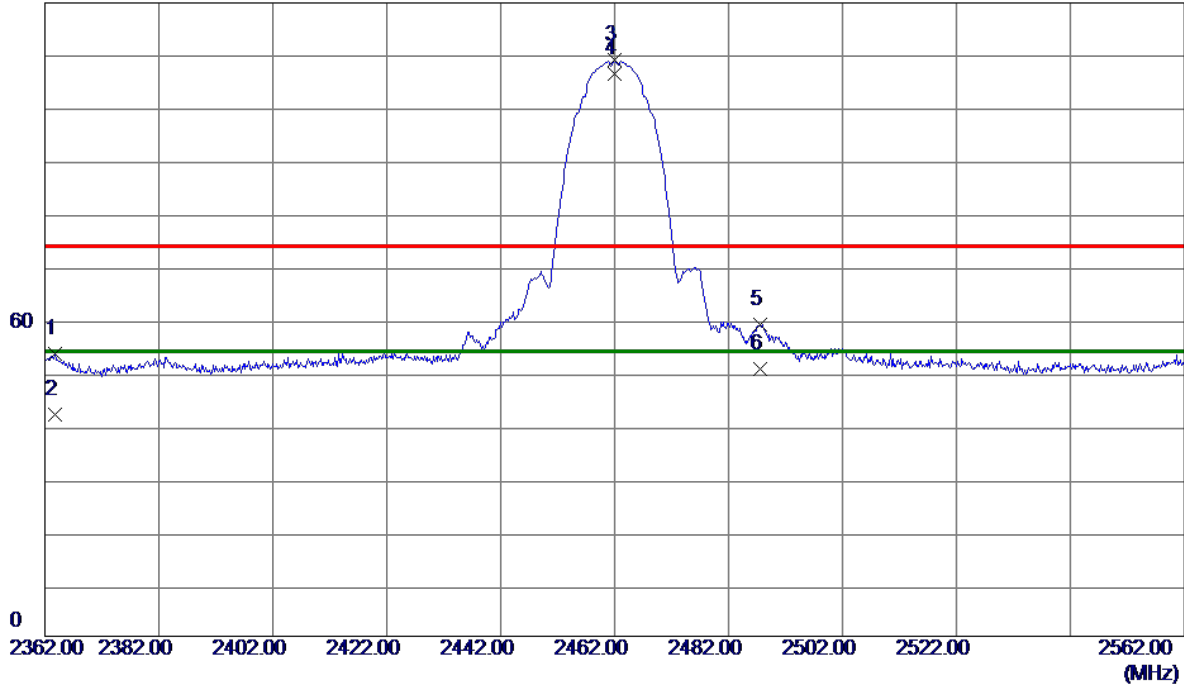
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2383.0000	49.90	5.23	55.13	74.00	-18.87	Peak	
2	2383.0000	36.41	5.23	41.64	54.00	-12.36	AVG	
3	2412.0000	103.59	5.28	108.87	74.00	34.87	Peak	No Limit
4 *	2412.0000	100.88	5.28	106.16	54.00	52.16	AVG	No Limit
5	2511.8000	48.09	5.49	53.58	74.00	-20.42	Peak	
6	2511.8000	36.64	5.49	42.13	54.00	-11.87	AVG	

## REMARKS:

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

Test Mode	TX B Mode	Test Date	2025/3/11
Test Frequency	2462 MHz	Polarization	Horizontal

120 dBuV/m



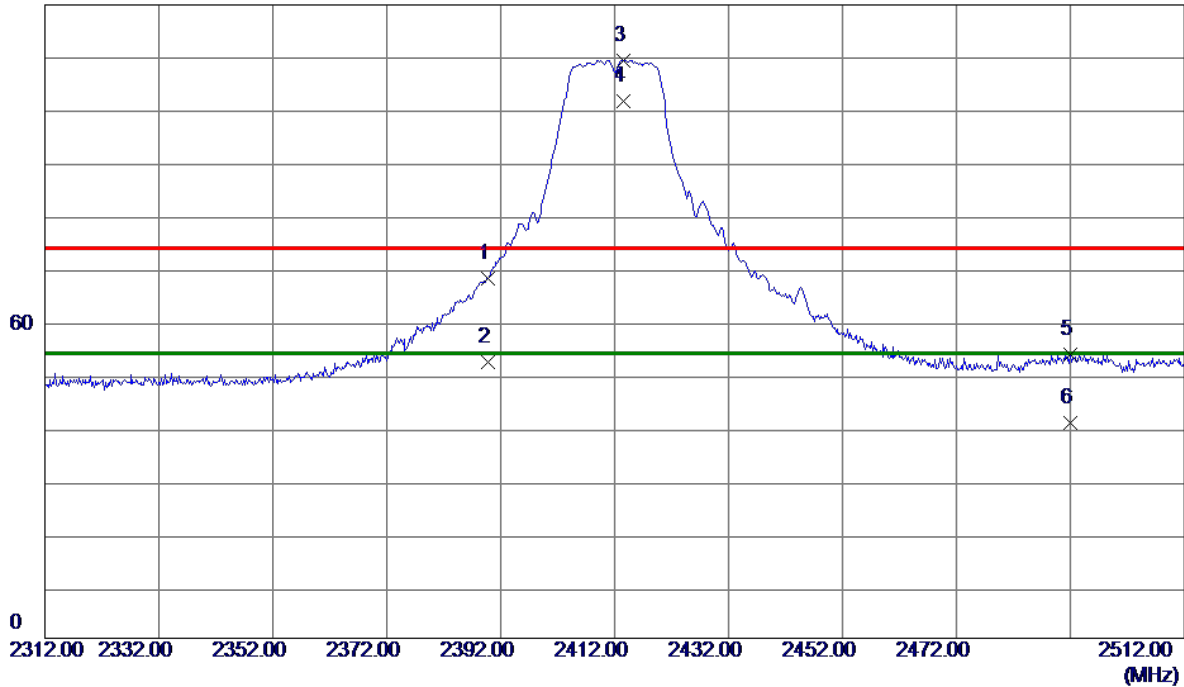
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2363.8000	48.44	5.19	53.63	74.00	-20.37	Peak	
2	2363.8000	36.92	5.19	42.11	54.00	-11.89	AVG	
3	2462.0000	103.79	5.37	109.16	74.00	35.16	Peak	No Limit
4 *	2462.0000	101.20	5.37	106.57	54.00	52.57	AVG	No Limit
5	2487.6000	53.71	5.42	59.13	74.00	-14.87	Peak	
6	2487.6000	45.33	5.42	50.75	54.00	-3.25	AVG	

## REMARKS:

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

Test Mode	TX G Mode	Test Date	2025/3/11
Test Frequency	2412 MHz	Polarization	Horizontal

120 dBuV/m



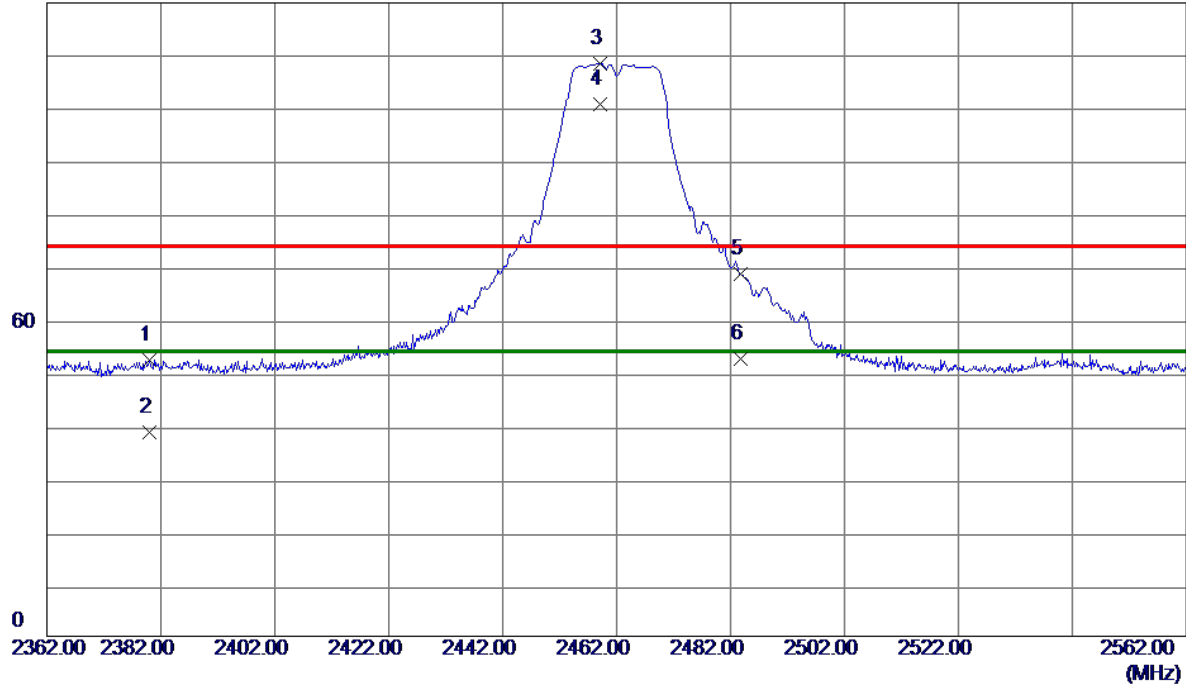
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.8000	62.93	5.24	68.17	74.00	-5.83	Peak	
2	2389.8000	47.12	5.24	52.36	54.00	-1.64	AVG	
3	2413.6000	104.27	5.28	109.55	74.00	35.55	Peak	No Limit
4 *	2413.6000	96.50	5.28	101.78	54.00	47.78	AVG	No Limit
5	2492.0000	48.32	5.43	53.75	74.00	-20.25	Peak	
6	2492.0000	35.26	5.43	40.69	54.00	-13.31	AVG	

## REMARKS:

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

Test Mode	TX G Mode	Test Date	2025/3/11
Test Frequency	2462 MHz	Polarization	Horizontal

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	2380.0000	47.16	5.22	52.38	74.00	-21.62	Peak	
2	2380.0000	33.37	5.22	38.59	54.00	-15.41	AVG	
3	2459.2000	103.16	5.37	108.53	74.00	34.53	Peak	No Limit
4 *	2459.2000	95.35	5.37	100.72	54.00	46.72	AVG	No Limit
5	2483.8000	63.16	5.41	68.57	74.00	-5.43	Peak	
6	2483.8000	47.26	5.41	52.67	54.00	-1.33	AVG	

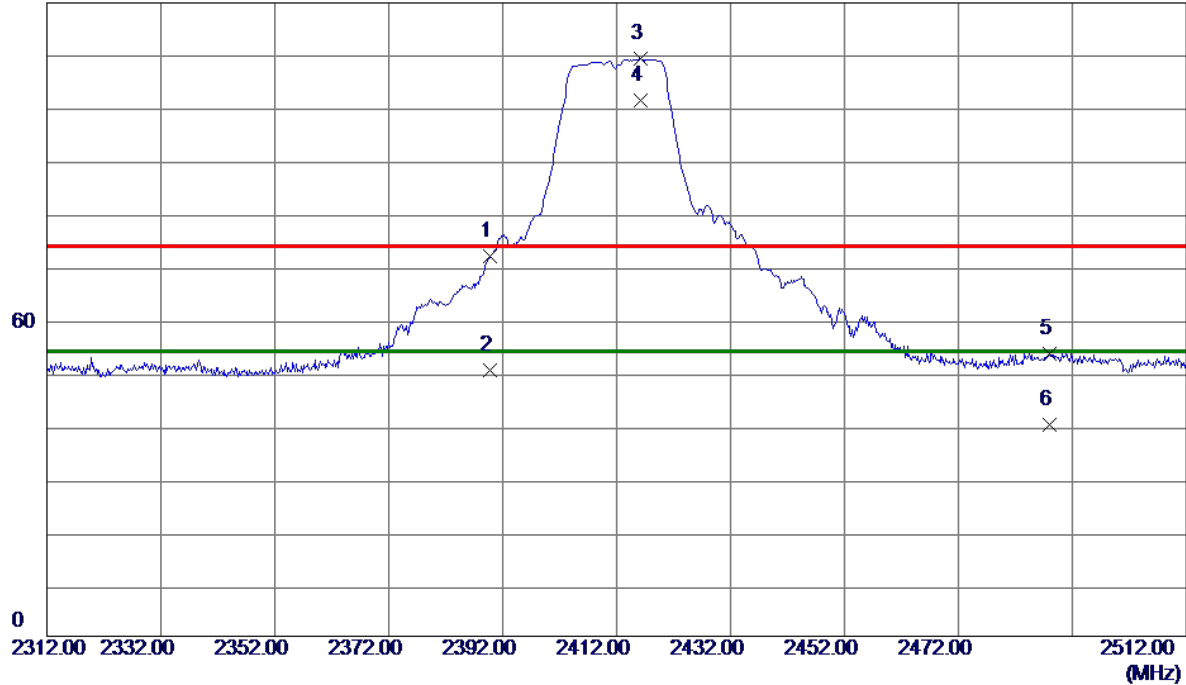
## REMARKS:

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

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

Test Mode	TX N(HT20) Mode	Test Date	2025/3/11
Test Frequency	2412 MHz	Polarization	Horizontal

120 dBuV/m



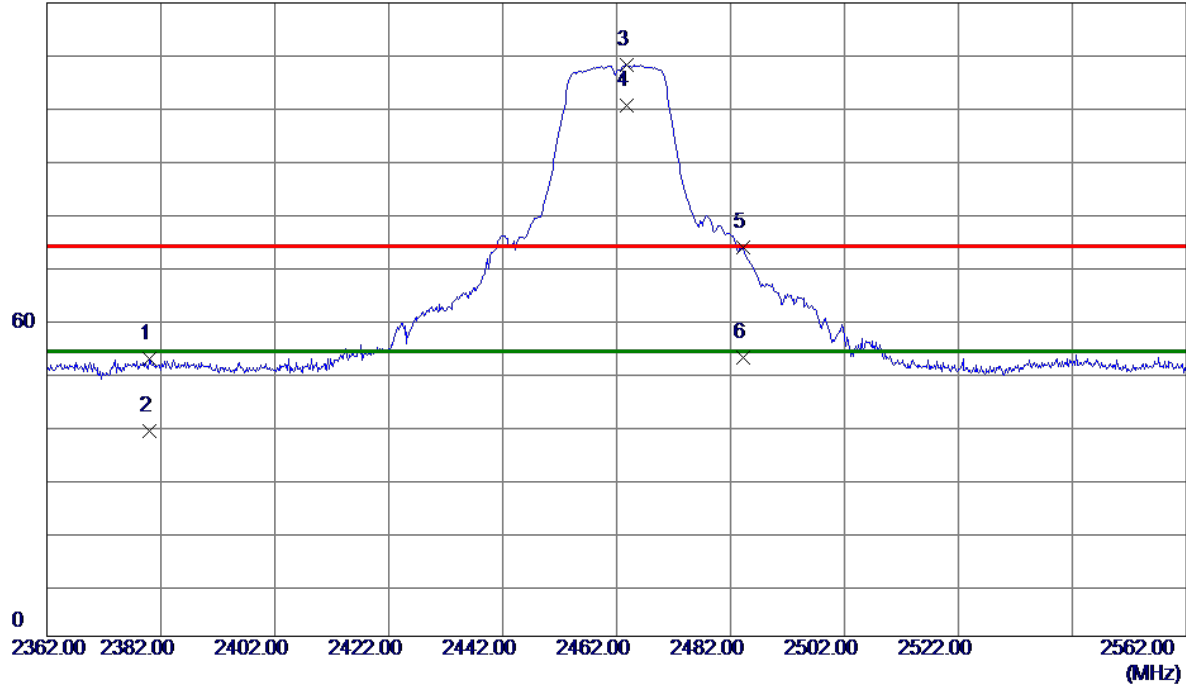
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.8000	66.67	5.24	71.91	74.00	-2.09	Peak	
2	2389.8000	45.20	5.24	50.44	54.00	-3.56	AVG	
3	2416.2000	104.10	5.29	109.39	74.00	35.39	Peak	No Limit
4 *	2416.2000	96.29	5.29	101.58	54.00	47.58	AVG	No Limit
5	2488.0000	48.13	5.42	53.55	74.00	-20.45	Peak	
6	2488.0000	34.71	5.42	40.13	54.00	-13.87	AVG	

## REMARKS:

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

Test Mode	TX N(HT20) Mode	Test Date	2025/3/11
Test Frequency	2462 MHz	Polarization	Horizontal

120 dBuV/m



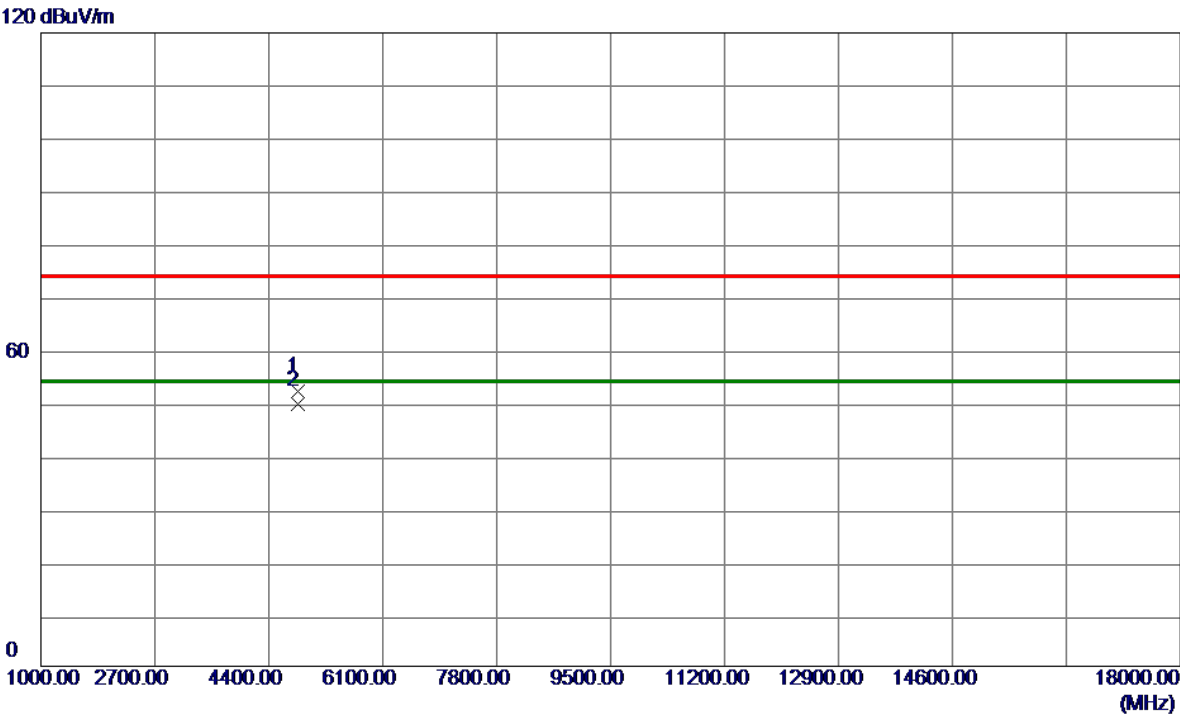
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2380.0000	47.32	5.22	52.54	74.00	-21.46	Peak	
2	2380.0000	33.56	5.22	38.78	54.00	-15.22	AVG	
3	2463.8000	102.82	5.37	108.19	74.00	34.19	Peak	No Limit
4 *	2463.8000	95.09	5.37	100.46	54.00	46.46	AVG	No Limit
5	2484.2000	68.15	5.41	73.56	74.00	-0.44	Peak	
6	2484.2000	47.47	5.41	52.88	54.00	-1.12	AVG	

## REMARKS:

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



Test Mode	TX B Mode	Test Date	2025/3/11
Test Frequency	2412 MHz	Polarization	Vertical

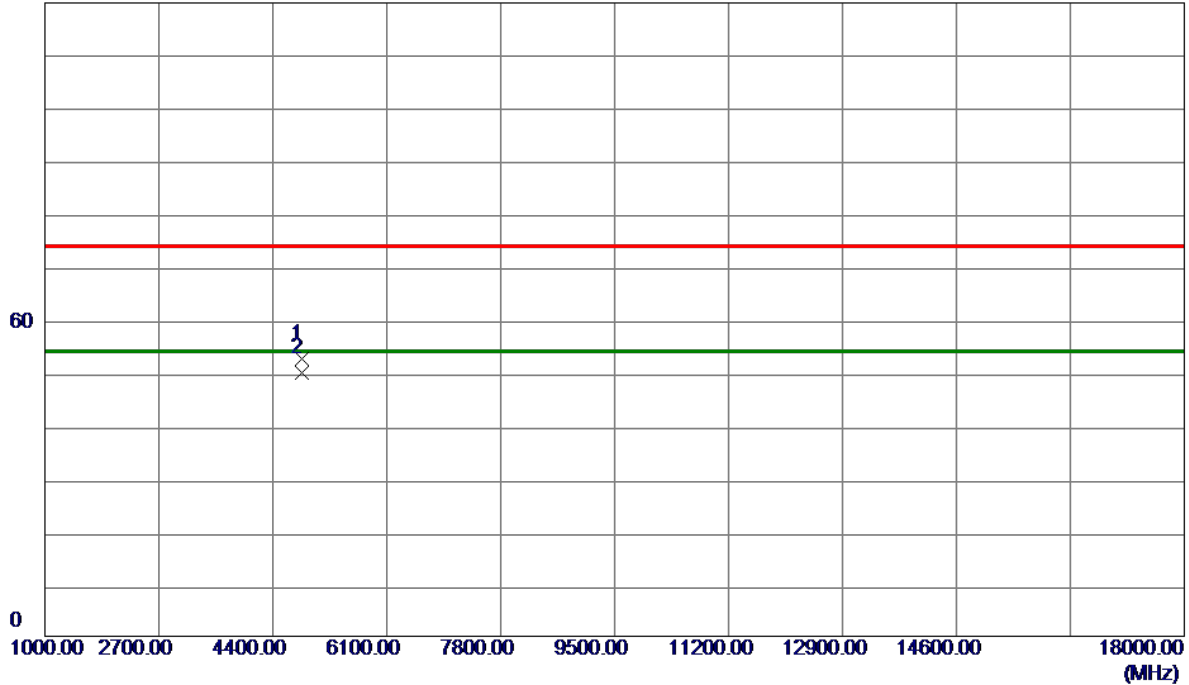


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4825.0000	50.23	1.79	52.02	74.00	-21.98	Peak	
2 *	4825.0000	47.77	1.79	49.56	54.00	-4.44	AVG	

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

Test Mode	TX B Mode	Test Date	2025/3/11
Test Frequency	2412 MHz	Polarization	Horizontal

120 dBuV/m



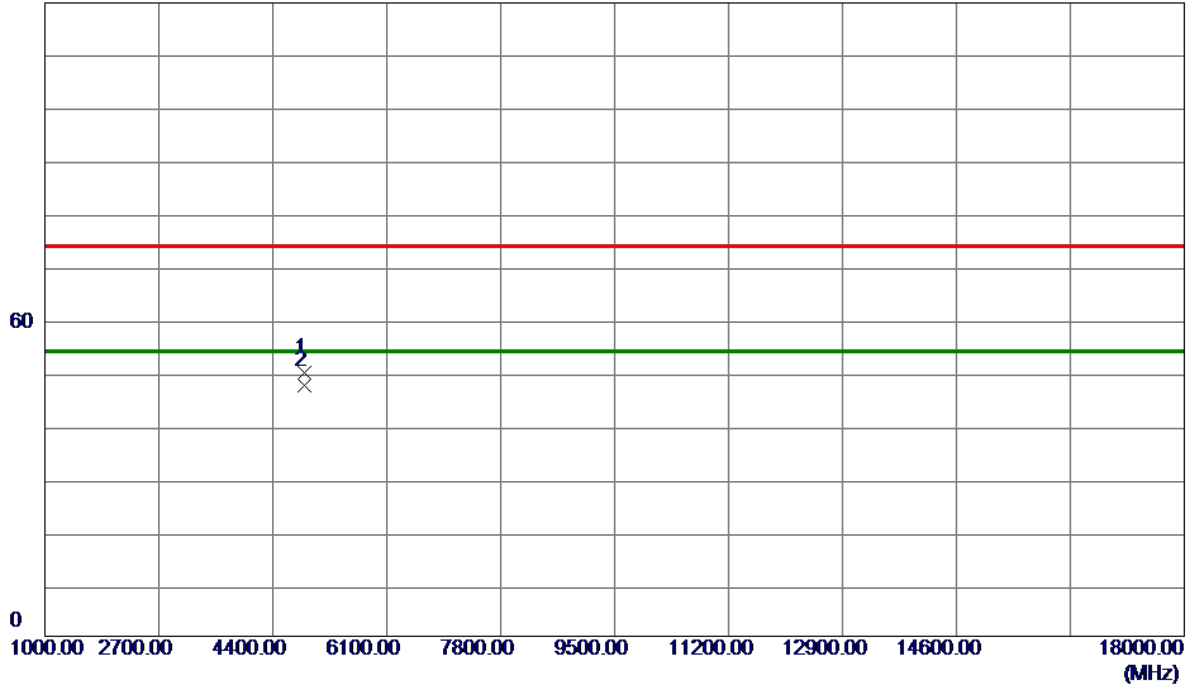
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4825.0000	50.70	1.79	52.49	74.00	-21.51	Peak	
2 *	4825.0000	48.14	1.79	49.93	54.00	-4.07	AVG	

## REMARKS:

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

Test Mode	TX B Mode	Test Date	2025/3/11
Test Frequency	2437 MHz	Polarization	Vertical

120 dBuV/m



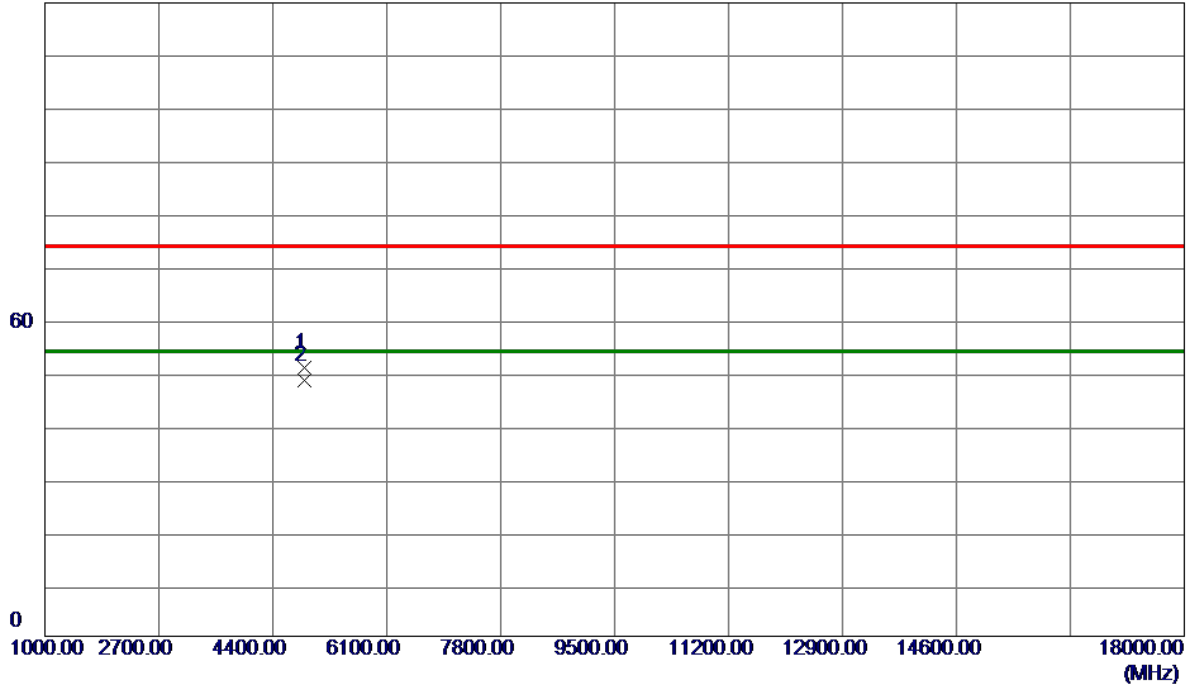
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4876.0000	47.96	1.88	49.84	74.00	-24.16	Peak	
2 *	4876.0000	45.71	1.88	47.59	54.00	-6.41	AVG	

## REMARKS:

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

Test Mode	TX B Mode	Test Date	2025/3/11
Test Frequency	2437 MHz	Polarization	Horizontal

120 dBuV/m

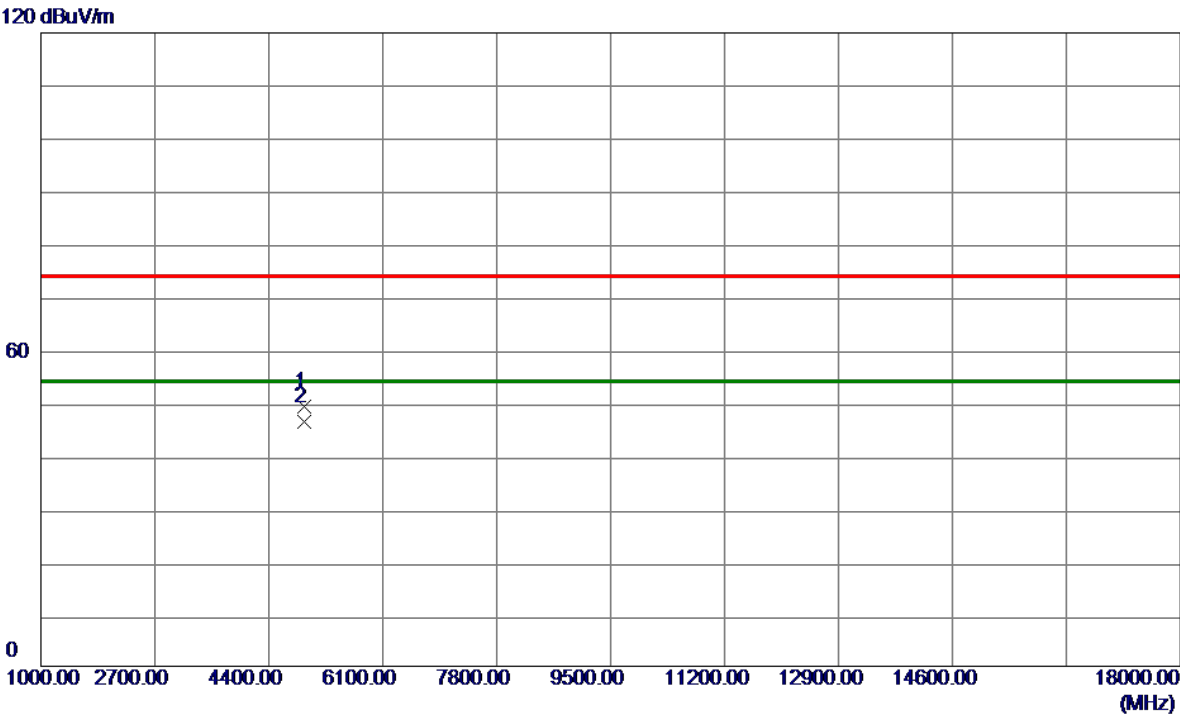


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4876.0000	48.96	1.88	50.84	74.00	-23.16	Peak	
2 *	4876.0000	46.62	1.88	48.50	54.00	-5.50	AVG	

## REMARKS:

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

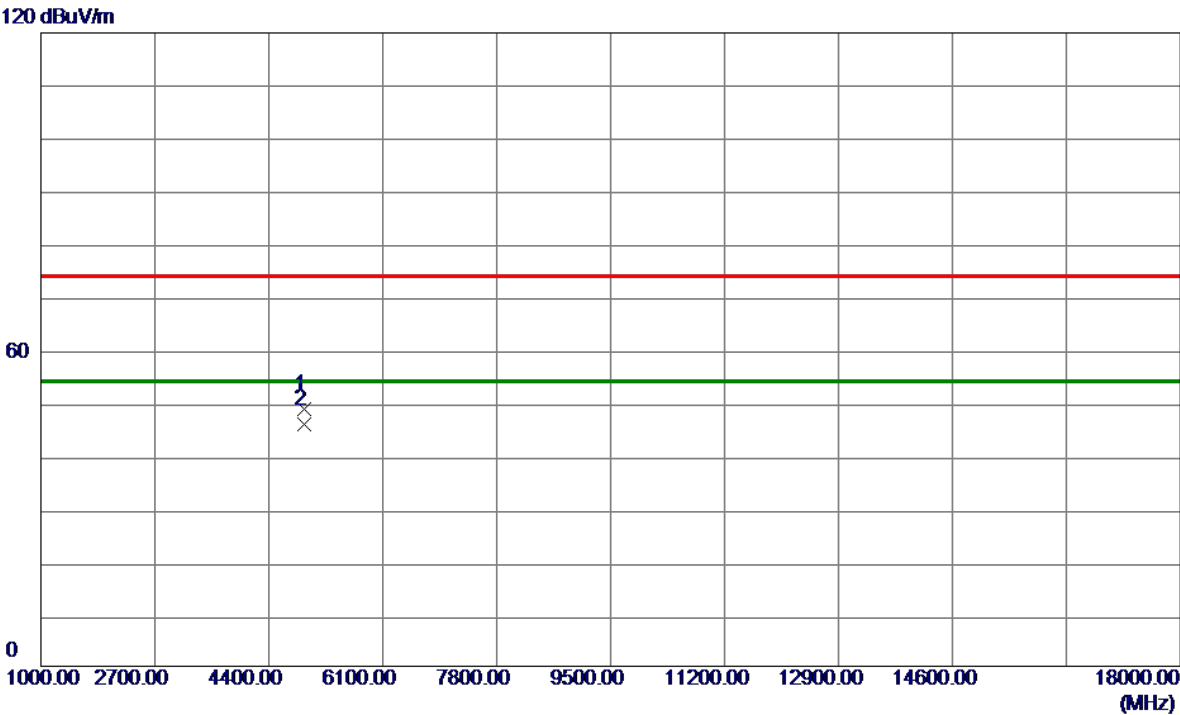
Test Mode	TX B Mode	Test Date	2025/3/11
Test Frequency	2462 MHz	Polarization	Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4927.0000	47.18	1.96	49.14	74.00	-24.86	Peak	
2 *	4927.0000	44.40	1.96	46.36	54.00	-7.64	AVG	

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

Test Mode	TX B Mode	Test Date	2025/3/11
Test Frequency	2462 MHz	Polarization	Horizontal



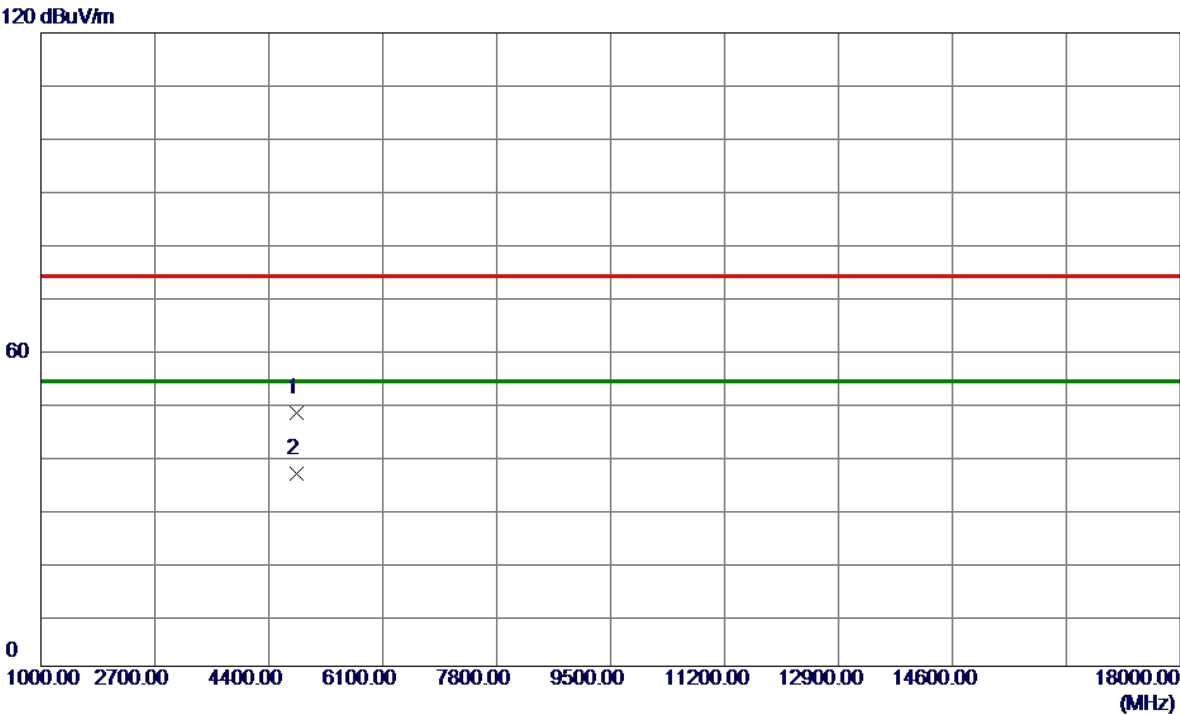
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4927.0000	46.66	1.96	48.62	74.00	-25.38	Peak	
2 *	4927.0000	43.94	1.96	45.90	54.00	-8.10	AVG	

REMARKS:

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

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

Test Mode	TX G Mode	Test Date	2025/3/11
Test Frequency	2412 MHz	Polarization	Vertical

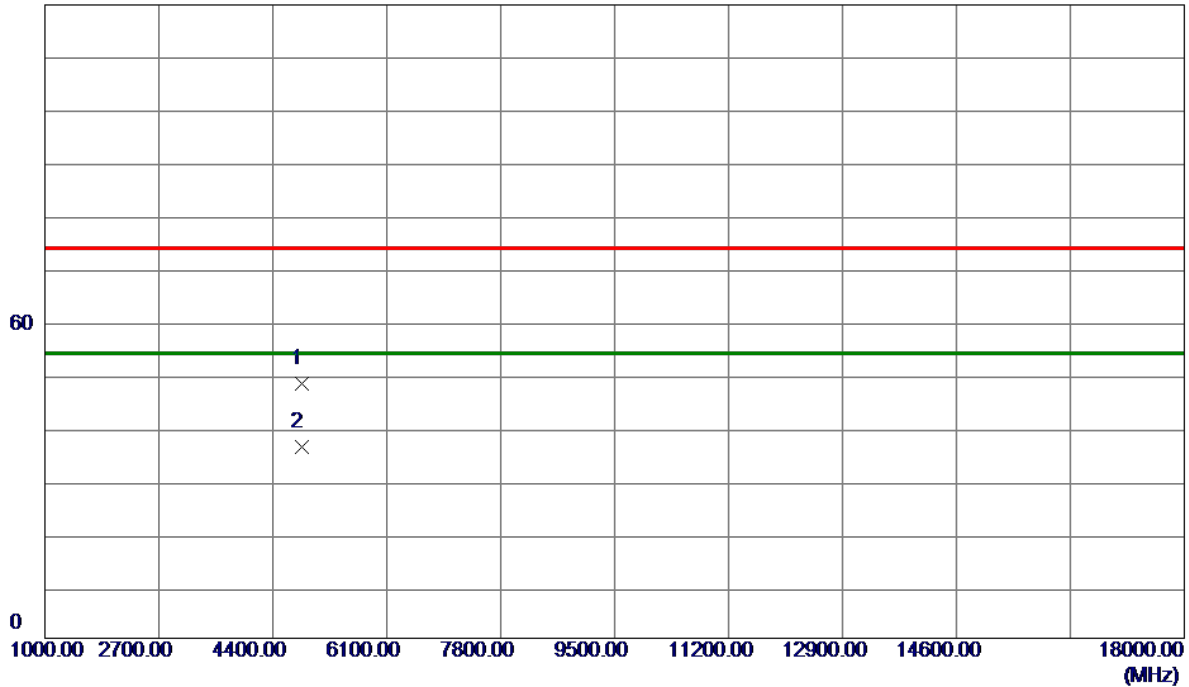


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	46.23	1.79	48.02	74.00	-25.98	Peak	
2 *	4824.0000	34.65	1.79	36.44	54.00	-17.56	AVG	

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

Test Mode	TX G Mode	Test Date	2025/3/11
Test Frequency	2412 MHz	Polarization	Horizontal

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	4825.0000	46.36	1.79	48.15	74.00	-25.85	Peak	
2 *	4825.0000	34.45	1.79	36.24	54.00	-17.76	AVG	

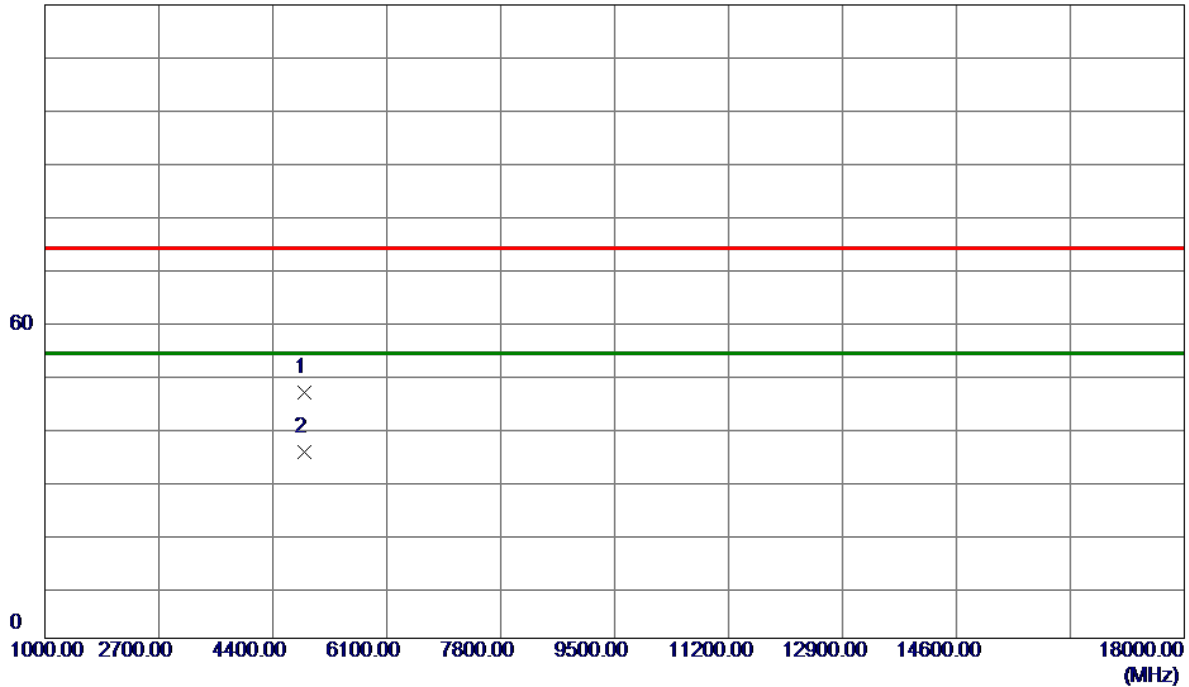
## REMARKS:

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



Test Mode	TX G Mode	Test Date	2025/3/11
Test Frequency	2437 MHz	Polarization	Vertical

120 dBuV/m



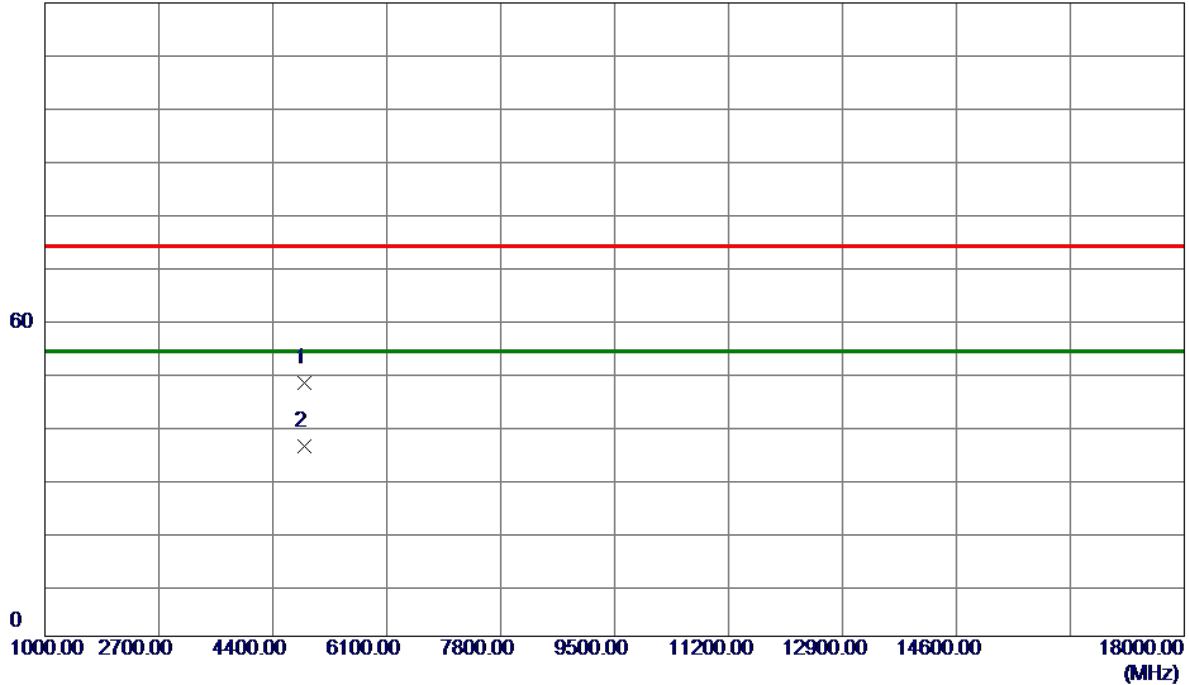
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.0000	44.64	1.87	46.51	74.00	-27.49	Peak	
2 *	4874.0000	33.42	1.87	35.29	54.00	-18.71	AVG	

## REMARKS:

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

Test Mode	TX G Mode	Test Date	2025/3/11
Test Frequency	2437 MHz	Polarization	Horizontal

120 dBuV/m



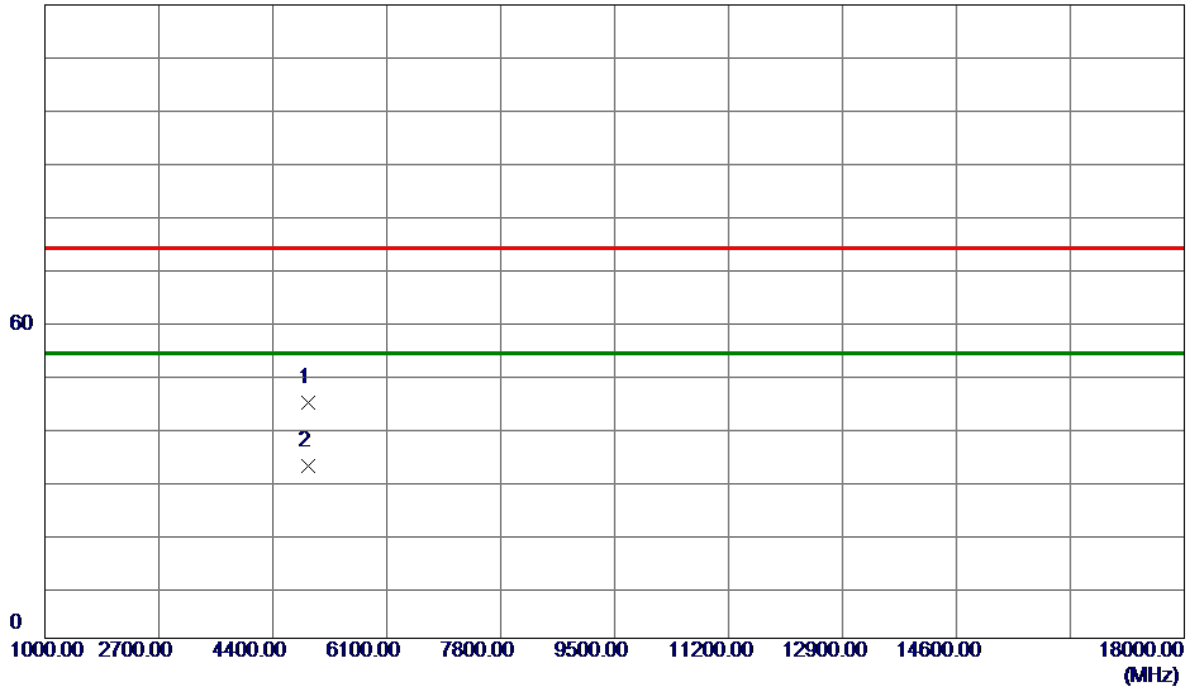
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	46.06	1.87	47.93	74.00	-26.07	Peak	
2 *	4874.0000	34.23	1.87	36.10	54.00	-17.90	AVG	

## REMARKS:

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

Test Mode	TX G Mode	Test Date	2025/3/11
Test Frequency	2462 MHz	Polarization	Vertical

120 dBuV/m

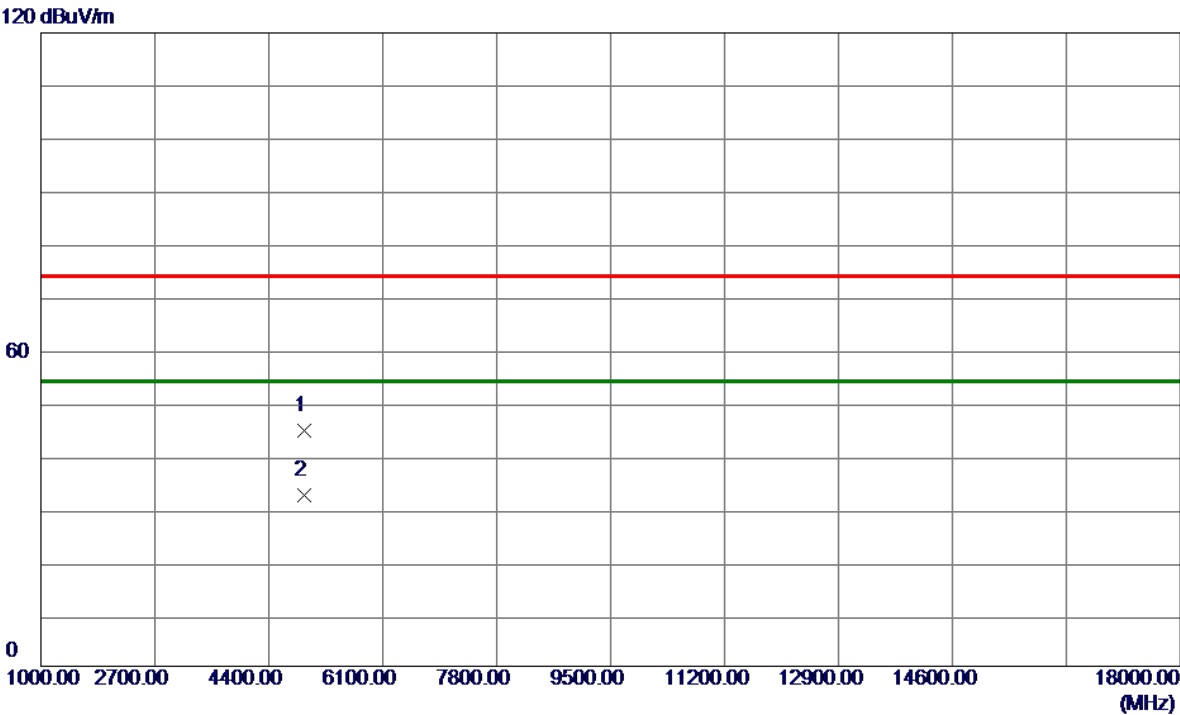


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	42.73	1.96	44.69	74.00	-29.31	Peak	
2 *	4924.0000	30.59	1.96	32.55	54.00	-21.45	AVG	

## REMARKS:

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

Test Mode	TX G Mode	Test Date	2025/3/11
Test Frequency	2462 MHz	Polarization	Horizontal

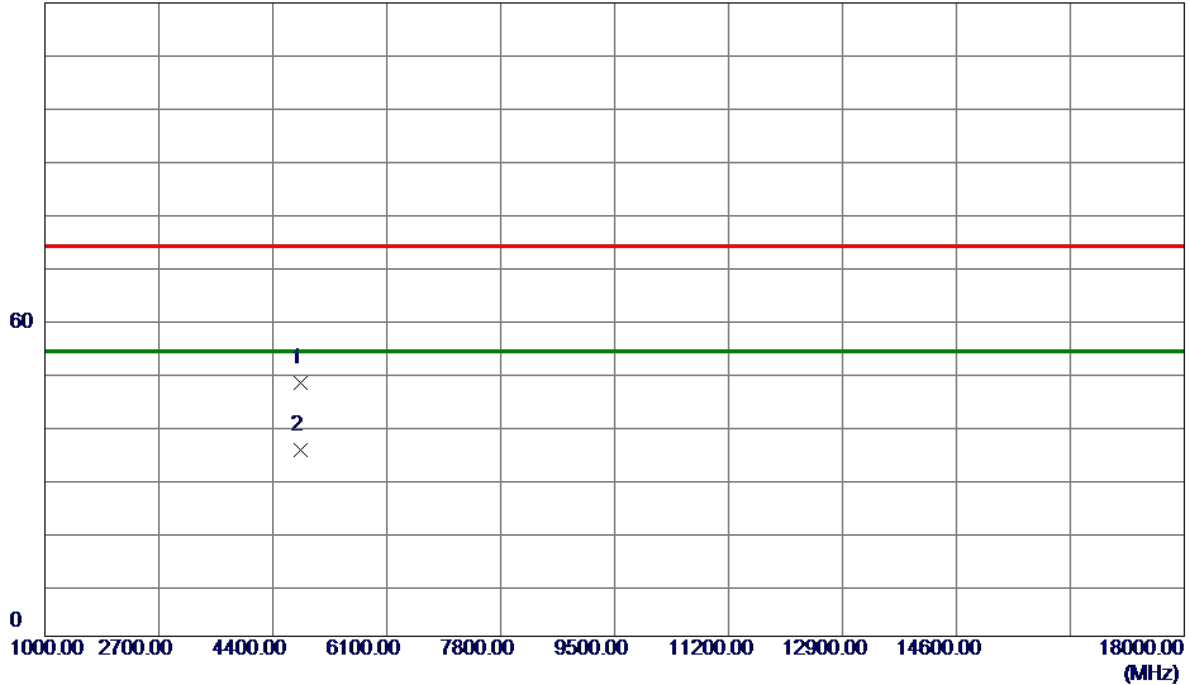


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	42.60	1.96	44.56	74.00	-29.44	Peak	
2 *	4924.0000	30.46	1.96	32.42	54.00	-21.58	AVG	

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

Test Mode	TX N(HT20) Mode	Test Date	2025/3/11
Test Frequency	2412 MHz	Polarization	Vertical

120 dBuV/m

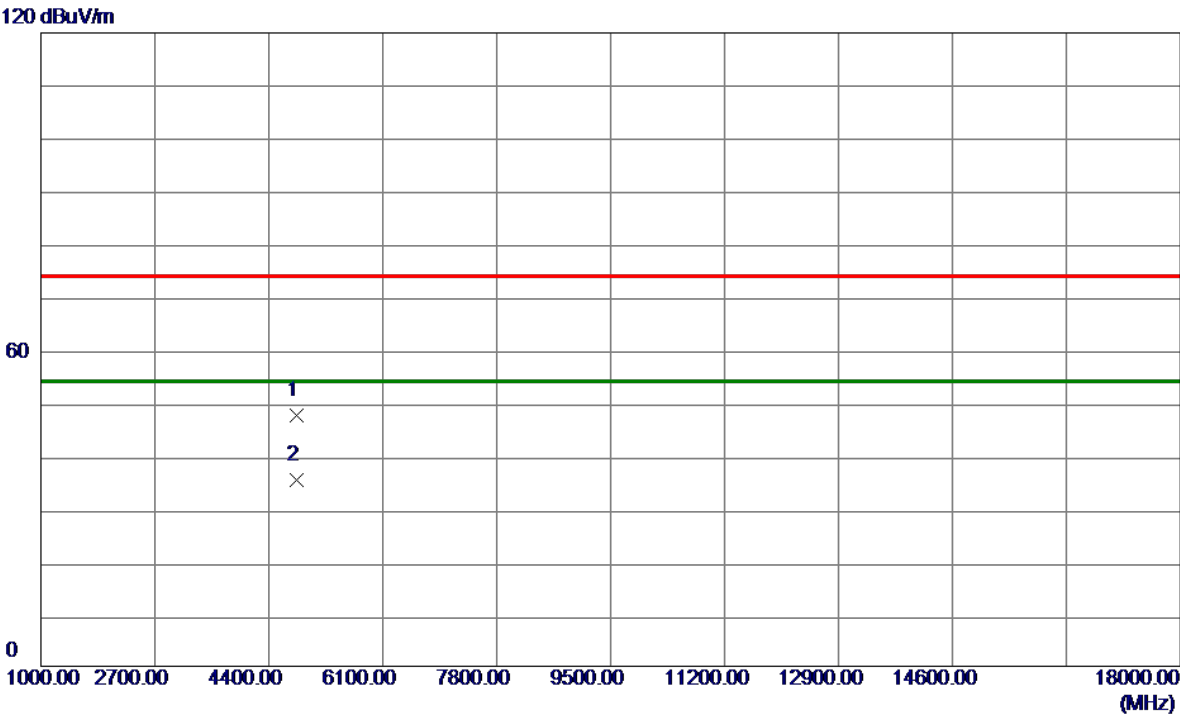


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	46.23	1.79	48.02	74.00	-25.98	Peak	
2 *	4824.0000	33.50	1.79	35.29	54.00	-18.71	AVG	

## REMARKS:

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

Test Mode	TX N(HT20) Mode	Test Date	2025/3/11
Test Frequency	2412 MHz	Polarization	Horizontal

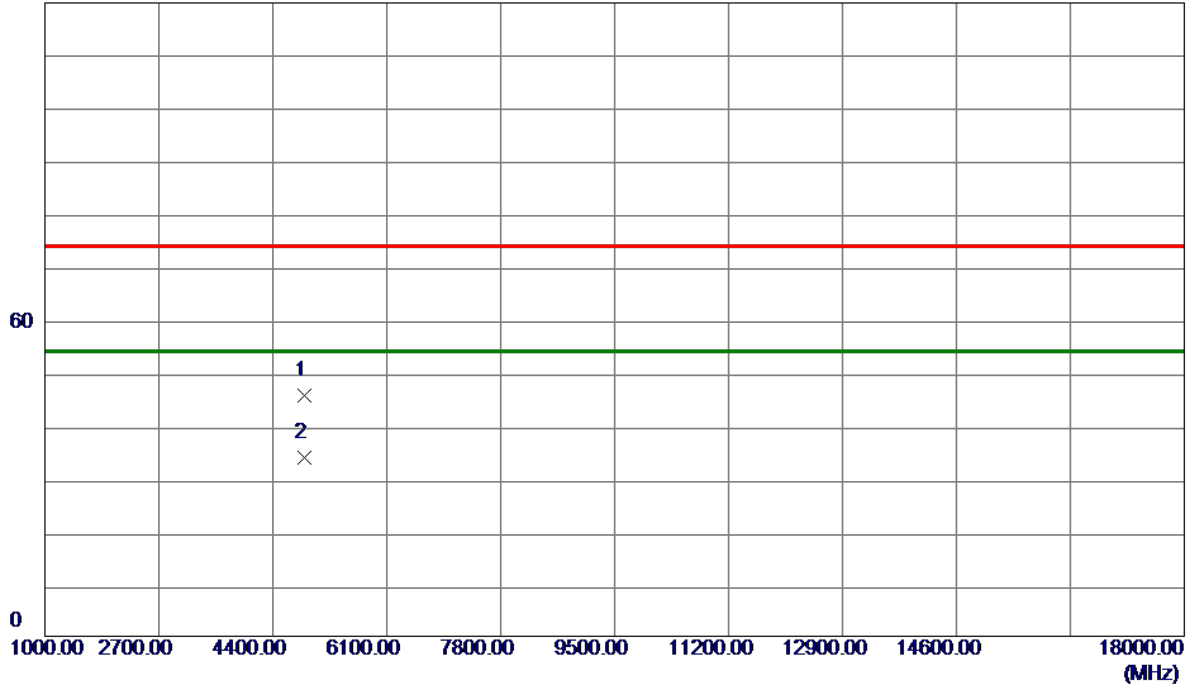


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	45.76	1.79	47.55	74.00	-26.45	Peak	
2 *	4824.0000	33.50	1.79	35.29	54.00	-18.71	AVG	

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

Test Mode	TX N(HT20) Mode	Test Date	2025/3/11
Test Frequency	2437 MHz	Polarization	Vertical

120 dBuV/m



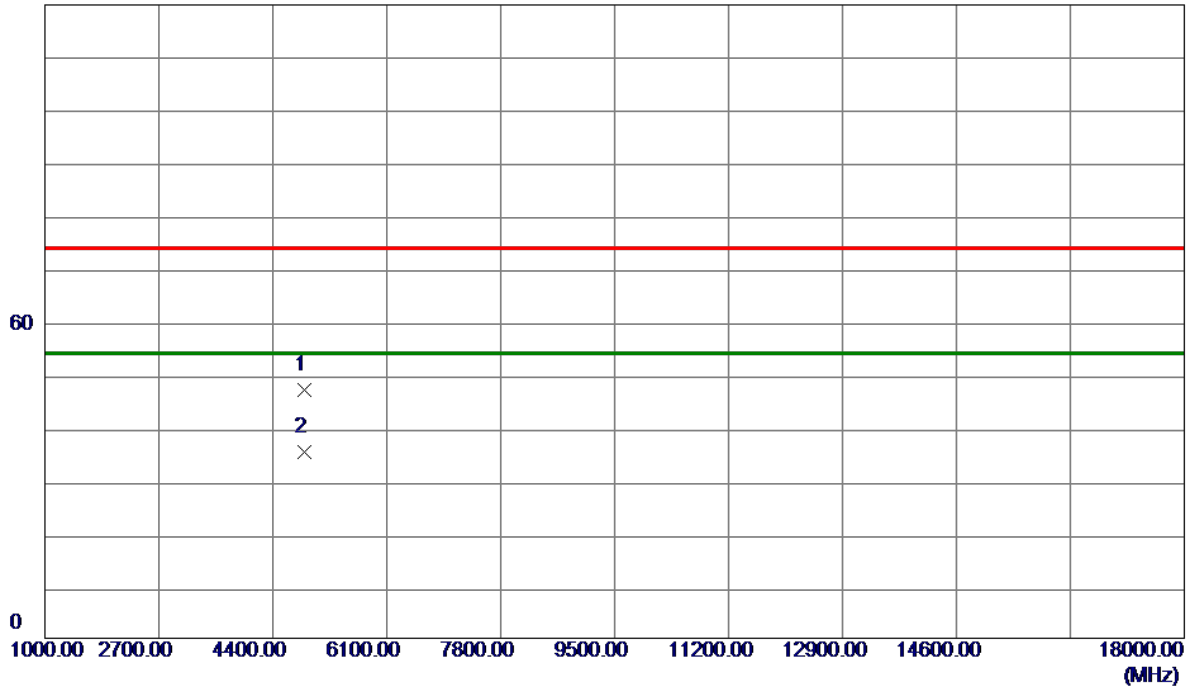
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	43.82	1.87	45.69	74.00	-28.31	Peak	
2 *	4874.0000	31.93	1.87	33.80	54.00	-20.20	AVG	

## REMARKS:

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

Test Mode	TX N(HT20) Mode	Test Date	2025/3/11
Test Frequency	2437 MHz	Polarization	Horizontal

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	4874.0000	45.13	1.87	47.00	74.00	-27.00	Peak	
2 *	4874.0000	33.31	1.87	35.18	54.00	-18.82	AVG	

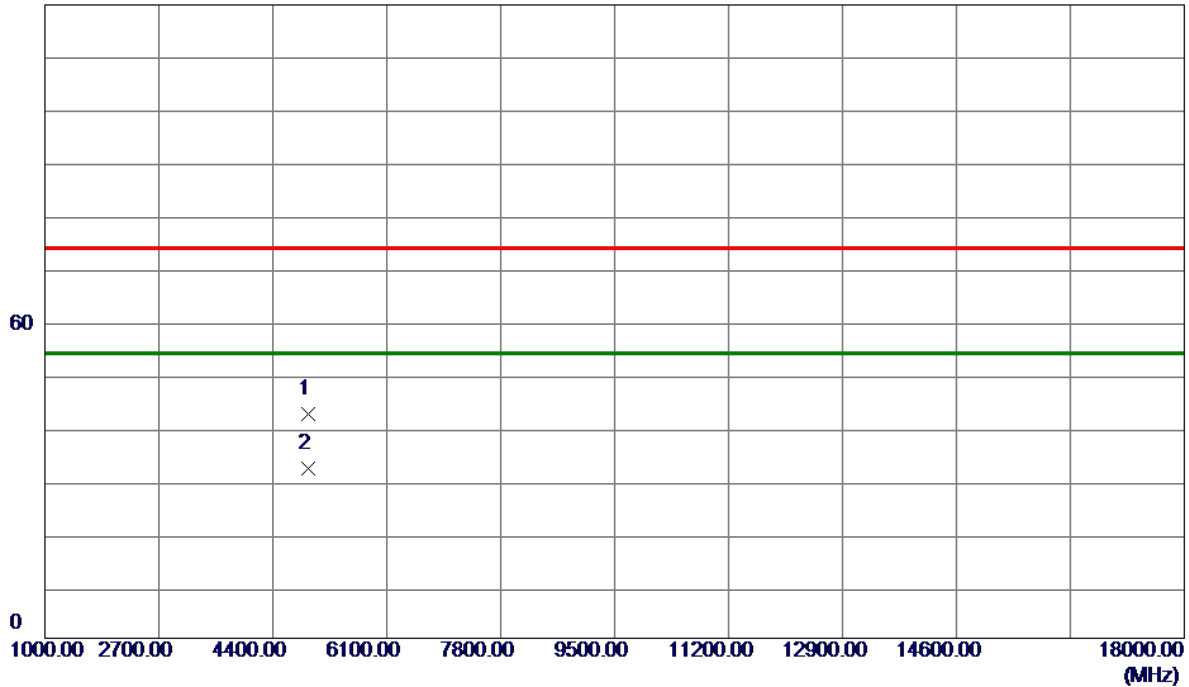
## REMARKS:

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



Test Mode	TX N(HT20) Mode	Test Date	2025/3/11
Test Frequency	2462 MHz	Polarization	Vertical

120 dBuV/m



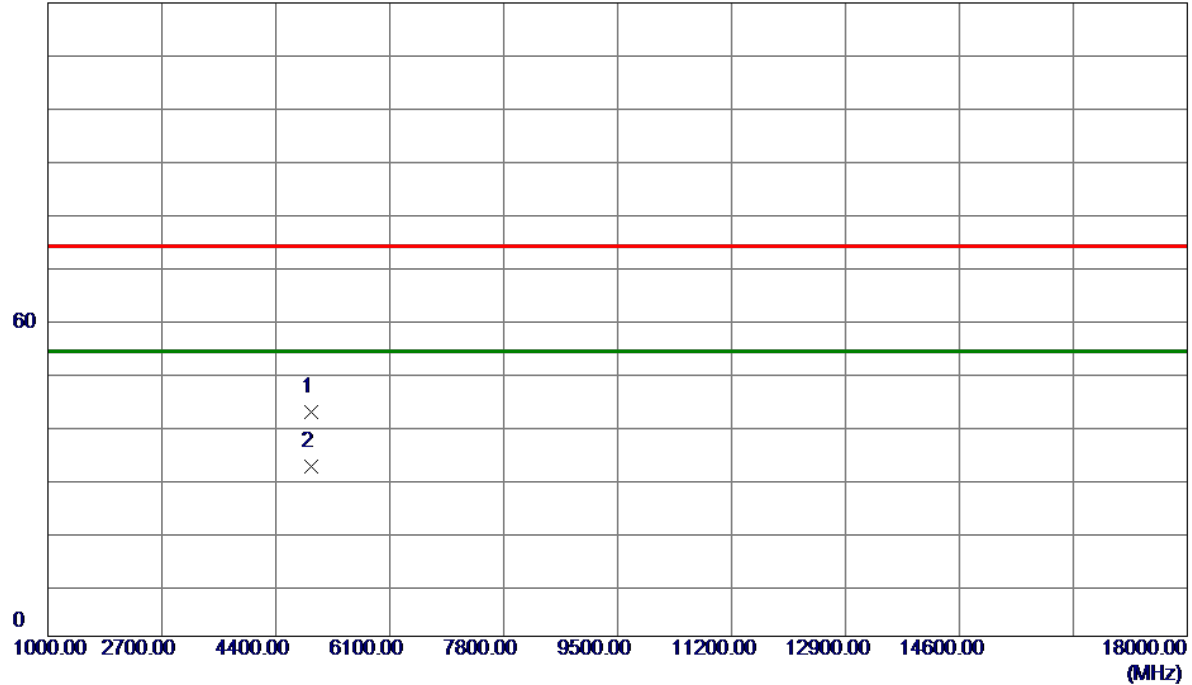
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.0000	40.55	1.96	42.51	74.00	-31.49	Peak	
2 *	4924.0000	30.22	1.96	32.18	54.00	-21.82	AVG	

## REMARKS:

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

Test Mode	TX N(HT20) Mode	Test Date	2025/3/11
Test Frequency	2462 MHz	Polarization	Horizontal

120 dBuV/m

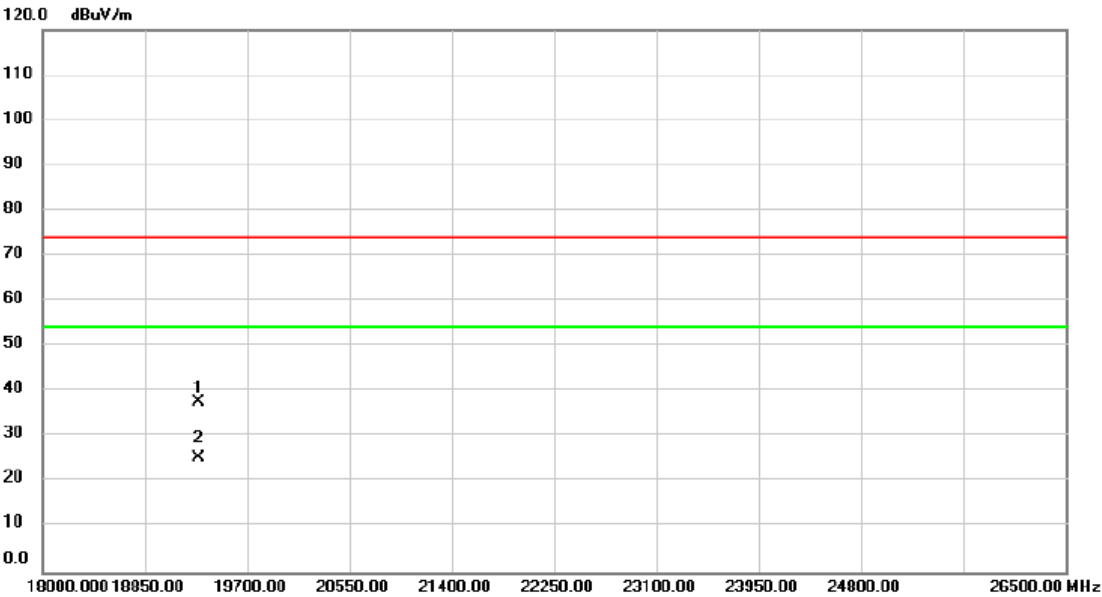


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.0000	40.46	1.96	42.42	74.00	-31.58	Peak	
2 *	4924.0000	30.15	1.96	32.11	54.00	-21.89	AVG	

## REMARKS:

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

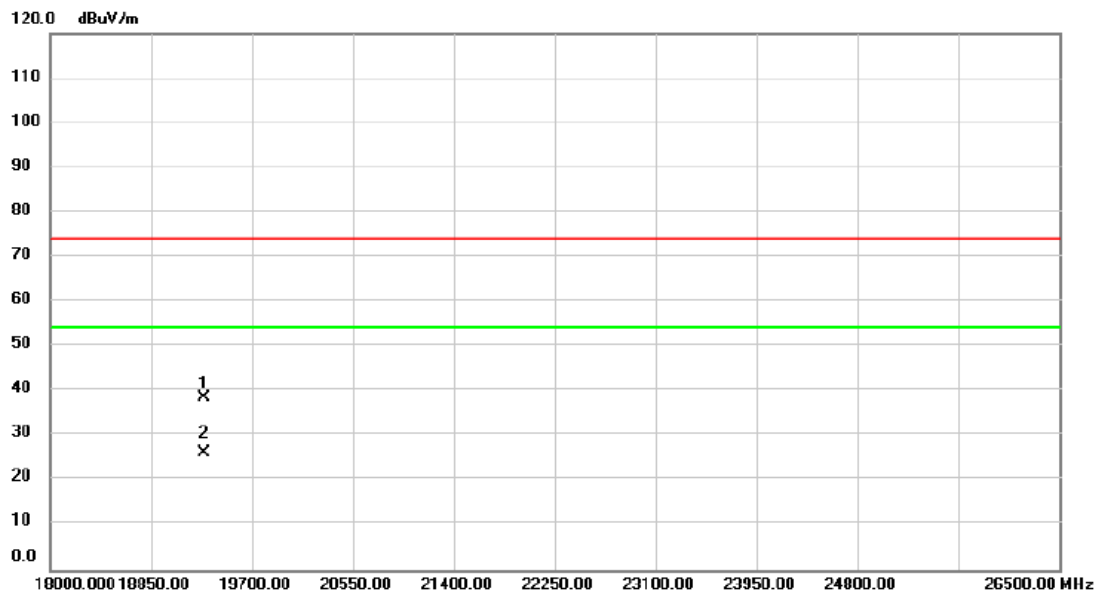
Test Mode	TX B Mode	Test Date	2025/3/11
Test Frequency	2412 MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		19296.00	47.69	-10.01	37.68	74.00	-36.32	peak	
2	*	19296.00	35.22	-10.01	25.21	54.00	-28.79	AVG	

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

Test Mode	TX B Mode	Test Date	2025/3/11
Test Frequency	2412 MHz	Polarization	Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		19296.00	48.49	-10.01	38.48	74.00	-35.52	peak	
2	*	19296.00	36.25	-10.01	26.24	54.00	-27.76	AVG	

## REMARKS:

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

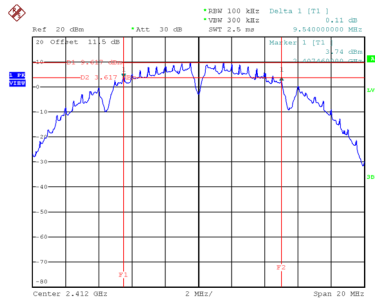
(2) Margin Level = Measurement Value - Limit Value.

## APPENDIX D - BANDWIDTH

Test Mode	TX B Mode
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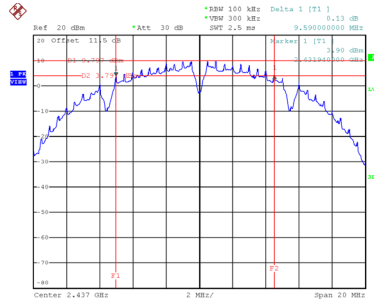
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	9.540	14.240	0.5	Complies
06	2437	9.590	14.240	0.5	Complies
11	2462	9.590	14.240	0.5	Complies

CH01



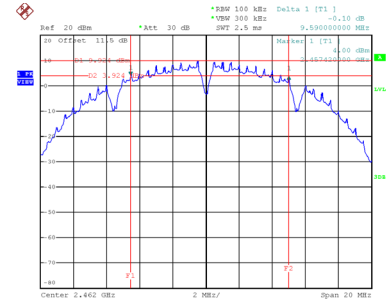
Date: 13.MAR.2025 10:18:54

CH06  
6 dB Bandwidth



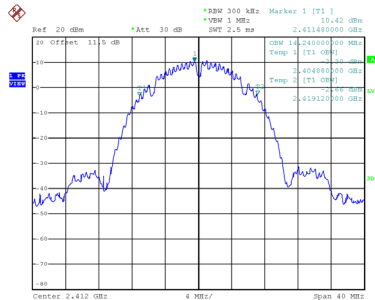
Date: 13.MAR.2025 10:26:42

CH11

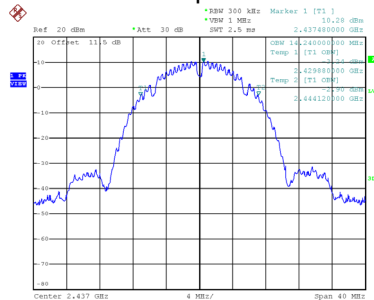


Date: 13.MAR.2025 10:35:55

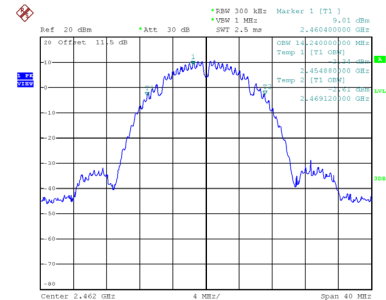
99 % Occupied Bandwidth



Date: 13.MAR.2025 10:19:03



Date: 13.MAR.2025 10:26:51

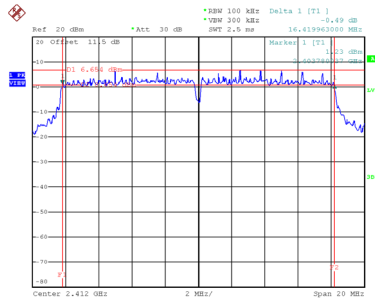


Date: 13.MAR.2025 10:36:04

Test Mode	TX G Mode
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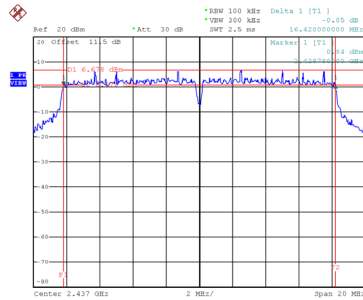
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.420	17.760	0.5	Complies
06	2437	16.420	17.760	0.5	Complies
11	2462	16.400	17.760	0.5	Complies

CH01



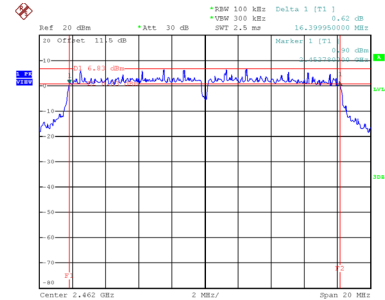
Date: 13.MAR.2025 10:39:15

CH06  
6 dB Bandwidth



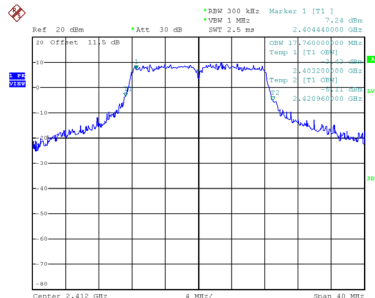
Date: 13.MAR.2025 10:46:16

CH11

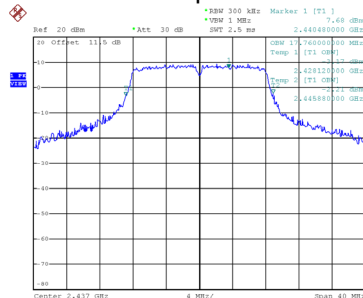


Date: 13.MAR.2025 10:48:29

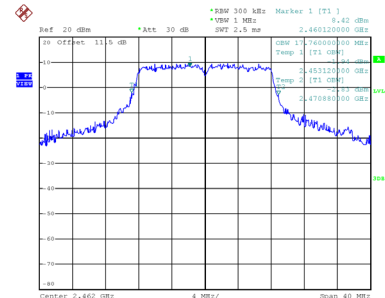
99 % Occupied Bandwidth



Date: 13.MAR.2025 10:39:23



Date: 13.MAR.2025 10:46:25

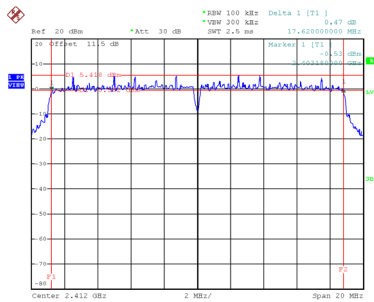


Date: 13.MAR.2025 10:48:38

Test Mode	TX N(HT20) Mode
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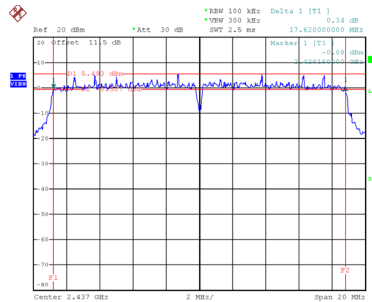
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.620	18.320	0.5	Complies
06	2437	17.620	18.240	0.5	Complies
11	2462	17.660	18.480	0.5	Complies

# CH01



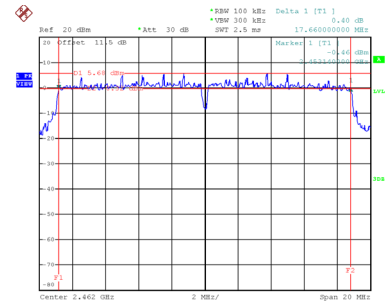
Date: 13.MAR.2025 10:53:44

**CH06**  
6 dB Bandwidth



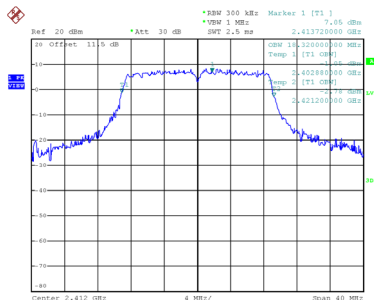
Date: 13.MAR.2025 10:56:43

CH11

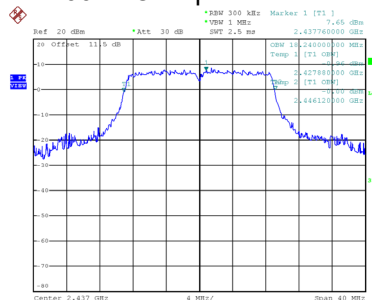


Date: 13.MAR.2025 10:59:05

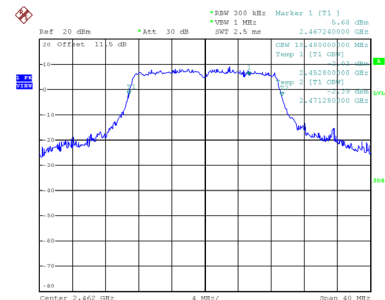
99 % Occupied Bandwidth



Date: 13.MAR.2025 10:53:53



Date: 13.MAR.2025 10:56:52



Date: 13.MAR.2025 10:59:14



## **APPENDIX E - MAXIMUM OUTPUT POWER**

Test Mode	TX B Mode	Test Date	2025/3/7
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.33	0.00	19.33	30.00	1.0000	Complies
06	2437	19.25	0.00	19.25	30.00	1.0000	Complies
11	2462	19.27	0.00	19.27	30.00	1.0000	Complies

Test Mode	TX G Mode	Test Date	2025/3/7
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	16.91	0.26	17.17	30.00	1.0000	Complies
06	2437	18.38	0.26	18.64	30.00	1.0000	Complies
11	2462	16.06	0.26	16.32	30.00	1.0000	Complies

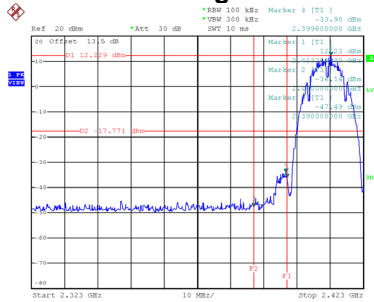
Test Mode	TX N(HT20) Mode	Test Date	2025/3/7
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.23	0.30	17.53	30.00	1.0000	Complies
06	2437	17.38	0.30	17.68	30.00	1.0000	Complies
11	2462	16.08	0.30	16.38	30.00	1.0000	Complies

## **APPENDIX F - CONDUCTED SPURIOUS EMISSIONS**

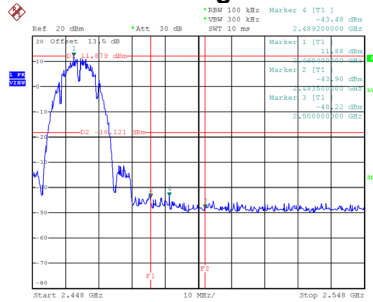
Test Mode TX B Mode

## Bandedge-CH01



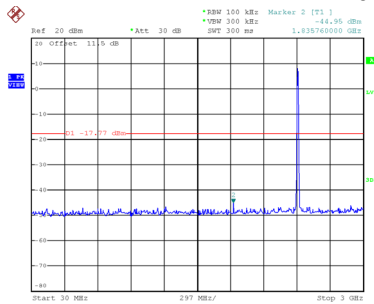
Date: 13.MAR.2025 10:19:12

## Bandedge-CH11

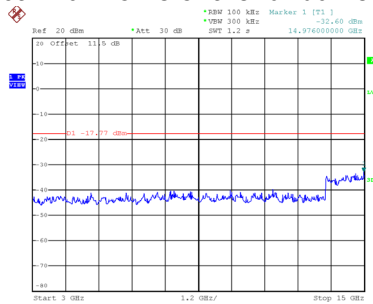


Date: 13.MAR.2025 10:36:13

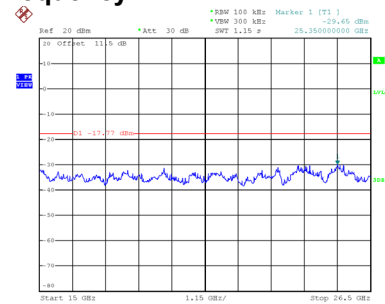
## CH01 – 10th Harmonic of the fundamental frequency



Date: 13.MAR.2025 10:19:27

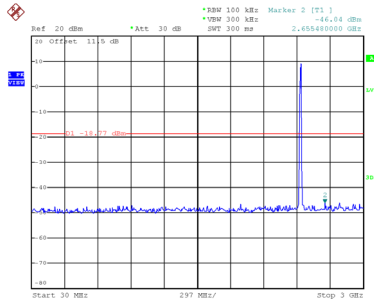


Date: 13.MAR.2025 10:19:36

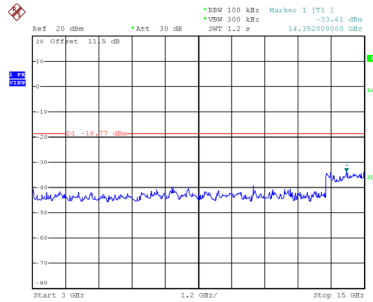


Date: 13.MAR.2025 10:19:45

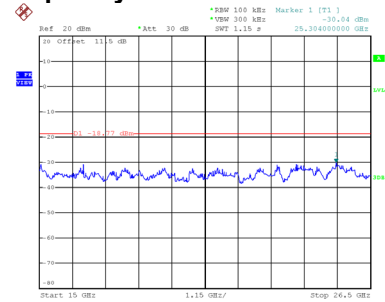
## CH06 – 10th Harmonic of the fundamental frequency



Date: 13.MAR.2025 10:27:16

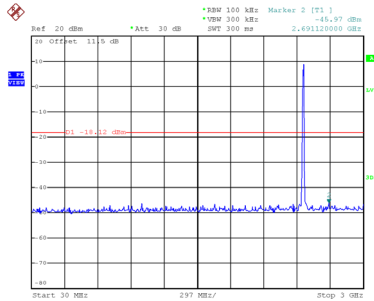


Date: 13.MAR.2025 10:27:25

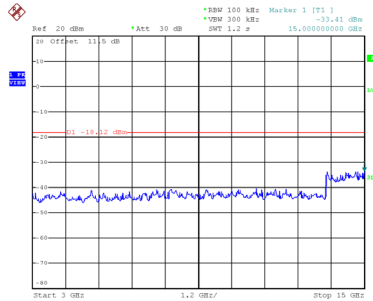


Date: 13.MAR.2025 10:27:34

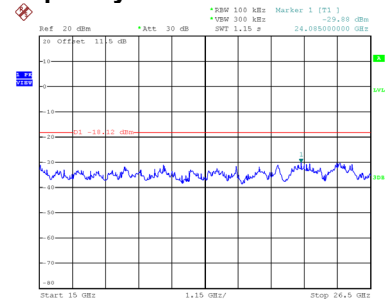
## CH11 – 10th Harmonic of the fundamental frequency



Date: 13.MAR.2025 10:36:28



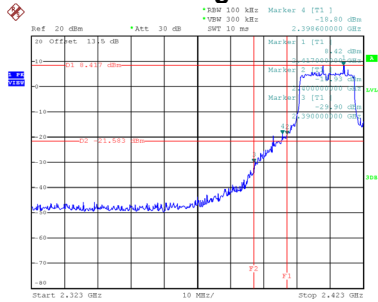
Date: 13.MAR.2025 10:36:38



Date: 13.MAR.2025 10:36:47

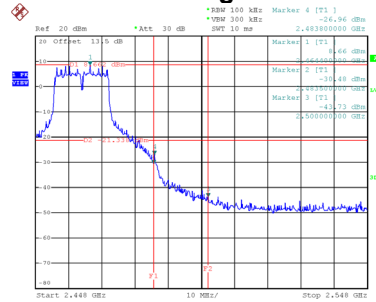
Test Mode TX G Mode

## Bandedge-CH01



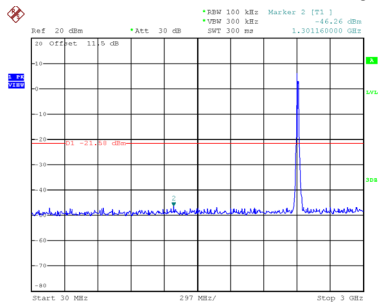
Date: 13.MAR.2025 10:39:32

## Bandedge-CH11

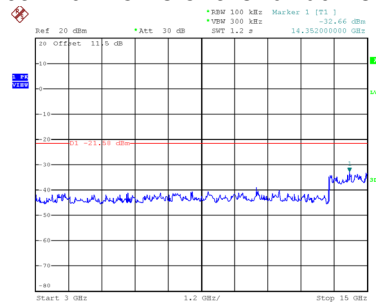


Date: 13.MAR.2025 10:48:47

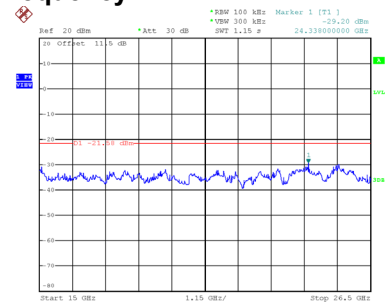
## CH01 – 10th Harmonic of the fundamental frequency



Date: 13.MAR.2025 10:39:47

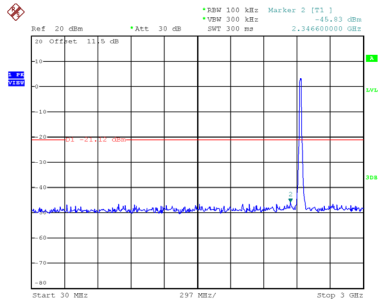


Date: 13.MAR.2025 10:39:56

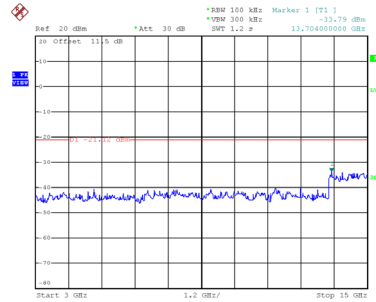


Date: 13.MAR.2025 10:40:06

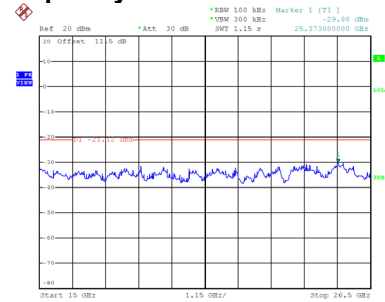
## CH06 – 10th Harmonic of the fundamental frequency



Date: 13.MAR.2025 10:46:49

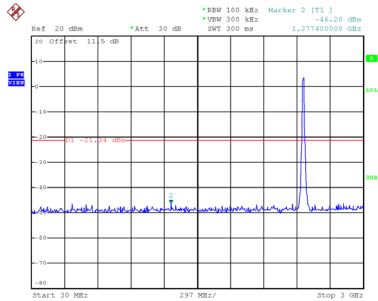


Date: 13.MAR.2025 10:46:58

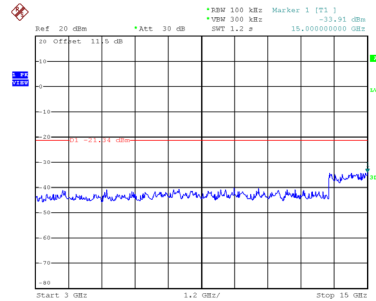


Date: 13.MAR.2025 10:47:08

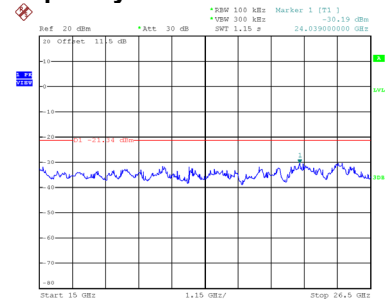
## CH11 – 10th Harmonic of the fundamental frequency



Date: 13.MAR.2025 10:49:03



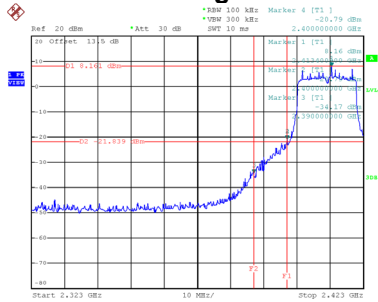
Date: 13.MAR.2025 10:49:12



Date: 13.MAR.2025 10:49:21

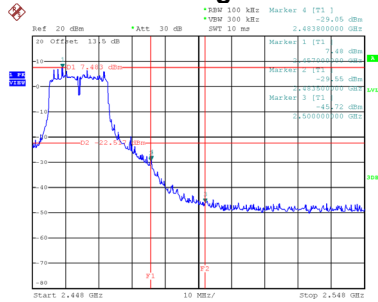
Test Mode TX N(HT20) Mode

## Bandedge-CH01



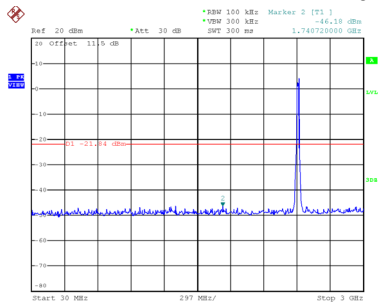
Date: 13.MAR.2025 10:54:02

## Bandedge-CH11

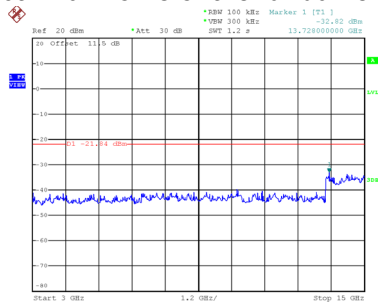


Date: 13.MAR.2025 10:59:23

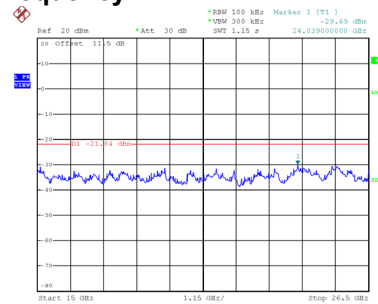
## CH01 – 10th Harmonic of the fundamental frequency



Date: 13.MAR.2025 10:54:17

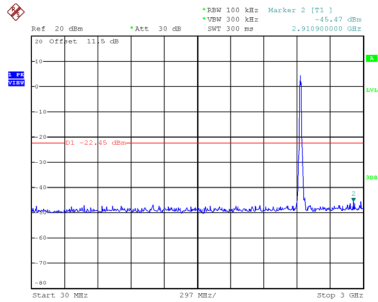


Date: 13.MAR.2025 10:54:26

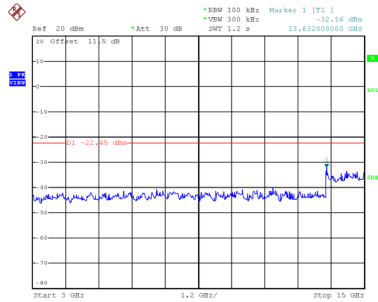


Date: 13.MAR.2025 10:54:35

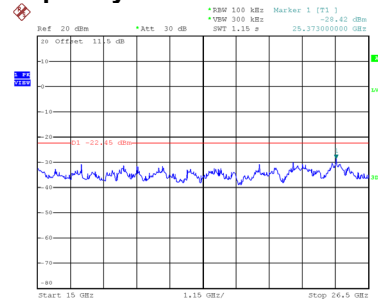
## CH06 – 10th Harmonic of the fundamental frequency



Date: 13.MAR.2025 10:57:17

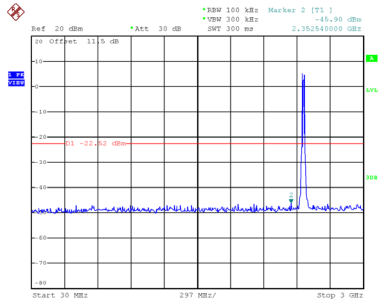


Date: 13.MAR.2025 10:57:26

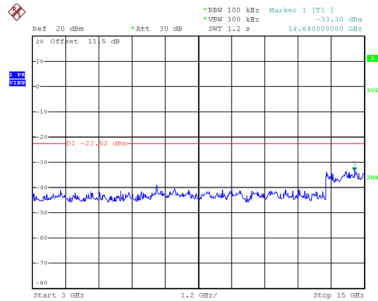


Date: 13.MAR.2025 10:57:35

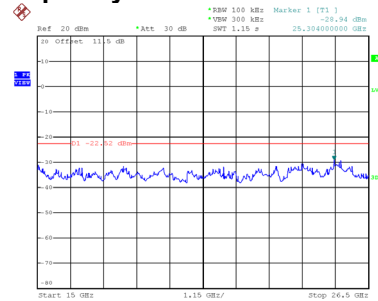
## CH11 – 10th Harmonic of the fundamental frequency



Date: 13.MAR.2025 10:59:38



Date: 13.MAR.2025 10:59:47

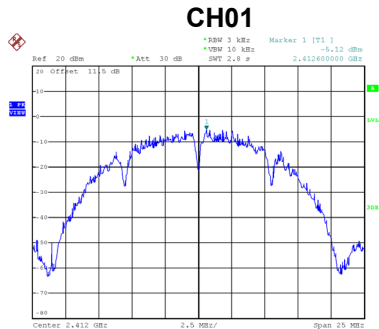


Date: 13.MAR.2025 10:59:57

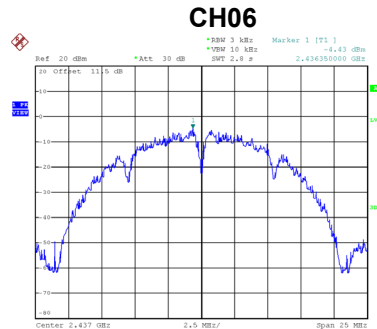
## APPENDIX H - POWER SPECTRAL DENSITY

Test Mode	TX B Mode
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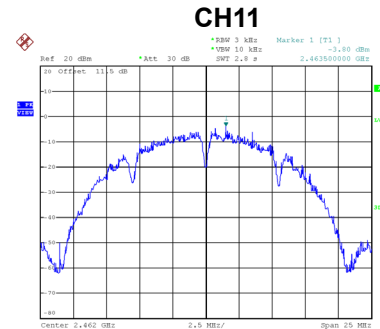
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-5.12	8.00	Complies
06	2437	-4.43	8.00	Complies
11	2462	-3.80	8.00	Complies



Date: 13.MAR.2025 10:19:56



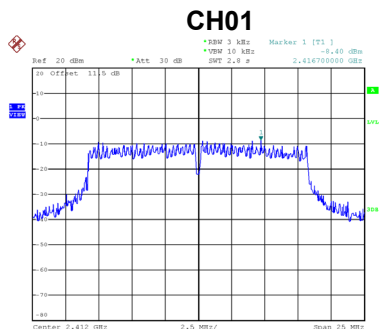
Date: 13.MAR.2025 10:35:21



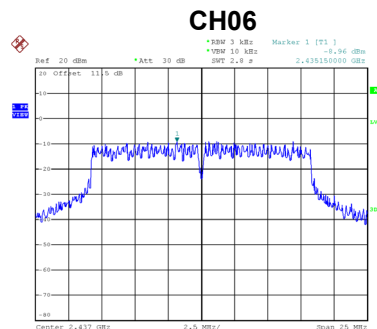
Date: 13.MAR.2025 10:36:57

Test Mode	TX G Mode
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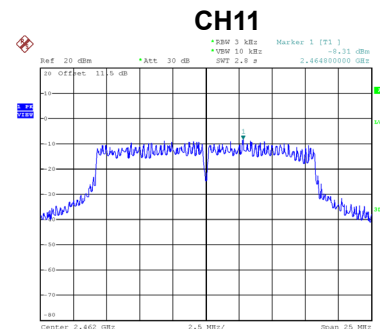
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-8.40	8.00	Complies
06	2437	-8.96	8.00	Complies
11	2462	-8.31	8.00	Complies



Date: 13.MAR.2025 10:40:16



Date: 13.MAR.2025 10:47:18

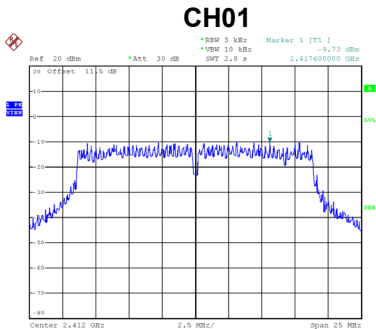


Date: 13.MAR.2025 10:49:32

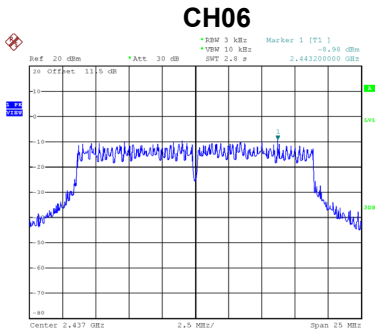


Test Mode	TX N(HT20) Mode
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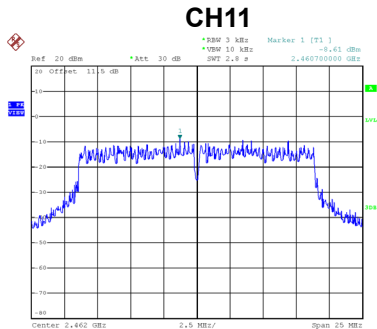
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-9.73	8.00	Complies
06	2437	-8.98	8.00	Complies
11	2462	-8.61	8.00	Complies



Date: 13.MAR.2025 10:54:46



Date: 13.MAR.2025 10:57:46



Date: 13.MAR.2025 11:00:07

End of Test Report