

FCC Radio Test Report

FCC ID: 2BCGWTX23U

Report No. : BTL-FCCP-1-2501G018
Equipment : AX1800 Mini Wi-Fi 6 Wireless USB Adapter
Test Model : Archer TX23U
Brand Name : tp-link
Applicant : TP-LINK CORPORATION PTE. LTD
Address : 7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Manufacturer : TP-LINK CORPORATION PTE. LTD
Address : 7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987

Radio Function : WLAN 2.4GHz

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

Date of Receipt : 2025/2/5
Date of Test : 2025/2/10~2025/4/1
Issued Date : 2025/6/3

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

Prepared by : Poken Huang
Poken Huang, Engineer

Approved by : Peter Chen
Peter Chen, Manager

**BTL Inc.**

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

Tel: +886-2-2657-3299 Fax: +886-2-2657-3331 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

Declaration

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

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

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

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

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

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.

Table of Contents	Page
REVISION HISTORY	6
1 . SUMMARY OF TEST RESULTS	7
1.1 TEST FACILITY	8
1.2 MEASUREMENT UNCERTAINTY	8
1.3 TEST ENVIRONMENT CONDITIONS	8
2 . GENERAL INFORMATION	9
2.1 GENERAL DESCRIPTION OF EUT	9
2.2 DESCRIPTION OF TEST MODES	11
2.3 PARAMETERS OF TEST SOFTWARE	11
2.4 DUTY CYCLE	12
2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	14
2.6 SUPPORT UNITS	14
3 . AC POWER LINE CONDUCTED EMISSIONS	15
3.1 LIMIT	15
3.2 TEST PROCEDURE	15
3.3 DEVIATION FROM TEST STANDARD	15
3.4 TEST SETUP	16
3.5 EUT OPERATION CONDITIONS	16
3.6 TEST RESULTS	16
4 . RADIATED EMISSIONS	17
4.1 LIMIT	17
4.2 TEST PROCEDURE	18
4.3 DEVIATION FROM TEST STANDARD	19
4.4 TEST SETUP	19
4.5 EUT OPERATION CONDITIONS	21
4.6 TEST RESULTS - 9 KHZ TO 30 MHZ	21
4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ	21
4.8 TEST RESULTS - ABOVE 1000 MHZ	21
5 . BANDWIDTH	22
5.1 LIMIT	22
5.2 TEST PROCEDURE	22
5.3 DEVIATION FROM STANDARD	22
5.4 TEST SETUP	22

Table of Contents	Page
5.5 EUT OPERATION CONDITIONS	22
5.6 TEST RESULTS	22
6 . MAXIMUM OUTPUT POWER	23
6.1 LIMIT	23
6.2 TEST PROCEDURE	23
6.3 DEVIATION FROM STANDARD	23
6.4 TEST SETUP	23
6.5 EUT OPERATION CONDITIONS	23
6.6 TEST RESULTS	23
7 . CONDUCTED SPURIOUS EMISSIONS	24
7.1 LIMIT	24
7.2 TEST PROCEDURE	24
7.3 DEVIATION FROM STANDARD	24
7.4 TEST SETUP	24
7.5 EUT OPERATION CONDITIONS	24
7.6 TEST RESULTS	24
8 . POWER SPECTRAL DENSITY	25
8.1 LIMIT	25
8.2 TEST PROCEDURE	25
8.3 DEVIATION FROM STANDARD	25
8.4 TEST SETUP	25
8.5 EUT OPERATION CONDITIONS	25
8.6 TEST RESULTS	25
9 . MEASUREMENT INSTRUMENTS LIST	26
10 . EUT TEST PHOTO	28
11 . EUT PHOTOS	28
APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS	29
APPENDIX B - RADIATED EMISSION - 30 MHZ TO 1000 MHZ	32
APPENDIX C - RADIATED EMISSION- ABOVE 1000 MHZ	35
APPENDIX D - BANDWIDTH	86
APPENDIX E - MAXIMUM OUTPUT POWER	93
APPENDIX F - CONDUCTED SPURIOUS EMISSIONS	100

Table of Contents**Page****APPENDIX G - POWER SPECTRAL DENSITY****113**

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2501G018	R00	Original Report.	2025/6/3	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 Emissions	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 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:

No.64, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

The test sites and facilities are covered under FCC RN: 674415 and DN: TW0659.

☒ C01 ☒ CB20 ☒ TR01

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 95.45% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

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

A. 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	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	45%	AC 110V/60Hz	Benny Cao
Radiated Emissions-30MHz to 1000MHz	25°C	65%	AC 110V/60Hz	Benny Cao
Radiated Emissions-Above 1000MHz	25°C	65%	AC 110V/60Hz	Benny Cao
Bandwidth	25°C	45%	AC 110V/60Hz	Cheng Tsai
Maximum Output Power	25°C	60%	AC 110V/60Hz	Cheng Tsai
Conducted Spurious Emissions	25°C	45%	AC 110V/60Hz	Cheng Tsai
Power Spectral Density	25°C	45%	AC 110V/60Hz	Cheng Tsai

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AX1800 Mini Wi-Fi 6 Wireless USB Adapter
Brand Name	tp-link
Test Model	Archer TX23U
Series Model	N/A
Model Difference(s)	N/A
Software Version	REV1.0
Hardware Version	REV1.0
Power Source	Supplied from USB port.
Power Rating	DC 5V
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM IEEE 802.11ax: OFDMA
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 IEEE 802.11ax: up to 573.6 Mbps
Maximum Output Power	IEEE 802.11ax(HE40): 18.32 dBm (0.0679 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), IEEE 802.11ax(HE20) CH03 - CH09 for IEEE 802.11n(HT40), IEEE 802.11ax(HE40)							
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.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	TP-Link Systems Inc.	6035500227	PIFA	N/A	0.45
2	TP-Link Systems Inc.	6035500227	PIFA	N/A	0.08

Note: This EUT supports CDD, and all antenna gains are not equal, Directional gain = $G_{ANT} + \text{Array Gain}$.
For power measurements, $\text{Array Gain} = 0\text{dB}$ ($N_{ANT} \leq 4$), so the Directional gain = 0.45.
For power spectral density measurements, $N_{ANT} = 2$, $N_{SS} = 1$.
So the Directional gain = $G_{ANT} + \text{Array Gain} = G_{ANT} + 10\log(N_{ANT}/N_{SS})\text{dBi} = 0.45 + 10\log(2/1)\text{dBi} = 3.46$.

4. 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.

5. Table for Antenna Configuration:

Operating Mode	TX Mode
IEEE 802.11b	V(Ant. 1 + Ant. 2)
IEEE 802.11g	V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT20)	V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)	V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE20)	V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE40)	V(Ant. 1 + Ant. 2)

2.2 DESCRIPTION OF TEST MODES

Test Items	Test mode	Channel	Note	
AC power line conducted emissions	Normal	-	-	
Transmitter Radiated Emissions (below 1GHz)	IEEE 802.11ax(HE40)	06	-	
Transmitter Radiated Emissions (above 1GHz)	IEEE 802.11b	01/11	Bandedge	
	IEEE 802.11g			
	IEEE 802.11n(HT20)			
	IEEE 802.11ax(HE20)			
	IEEE 802.11n(HT40)	03/09		
	IEEE 802.11ax(HE40)			
	IEEE 802.11b	01/06/11	Harmonic	
	IEEE 802.11g			
	IEEE 802.11n(HT20)			
	IEEE 802.11ax(HE20)			
IEEE 802.11n(HT40)	03/06/09			
IEEE 802.11ax(HE40)				
Transmitter Radiated Emissions (above 18GHz)	IEEE 802.11ax(HE40)	06	-	
Bandwidth & Output Power & Power Spectral Density & Conducted Spurious Emission	IEEE 802.11b	01/06/11	-	
	IEEE 802.11g			
	IEEE 802.11n(HT20)			
	IEEE 802.11ax(HE20)			
	IEEE 802.11n(HT40)	03/06/09		
	IEEE 802.11ax(HE40)			

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 IEEE 802.11ax(HE40) Mode Channel 06 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 (Vertical) is recorded.

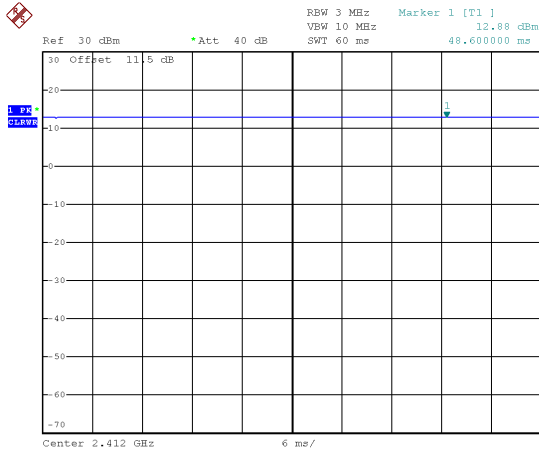
2.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	RTL8852A_USB_MP_Package_ALPHA_v1.1.26-1(39500)		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b		18	18
IEEE 802.11g	18.5	18.5	18.5
IEEE 802.11n(HT20)	18.5	18.5	16
IEEE 802.11ax(HE20)	19	19	16
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	15	18.5	12.5
IEEE 802.11ax(HE40)	16	19	12.5

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.

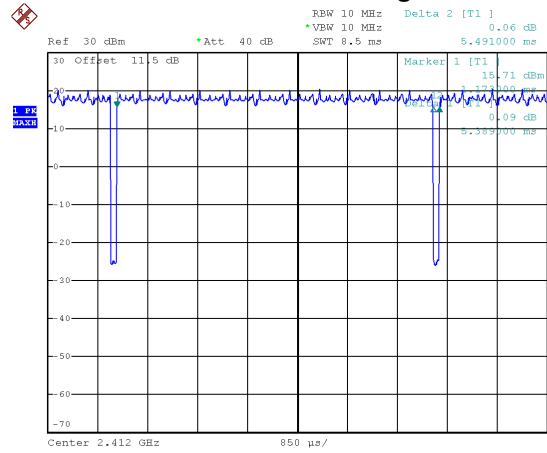
IEEE 802.11b



Date: 25.FEB.2025 14:02:49

Duty cycle = 48.000 ms / 48.000 ms = 100%
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$

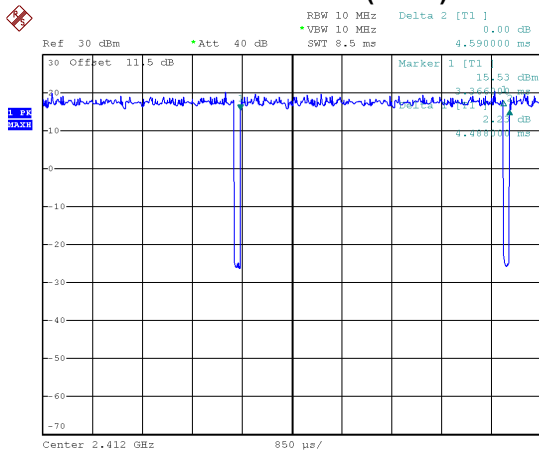
IEEE 802.11g



Date: 25.FEB.2025 14:19:11

Duty cycle = 5.389 ms / 5.491 ms = 98.14%
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$

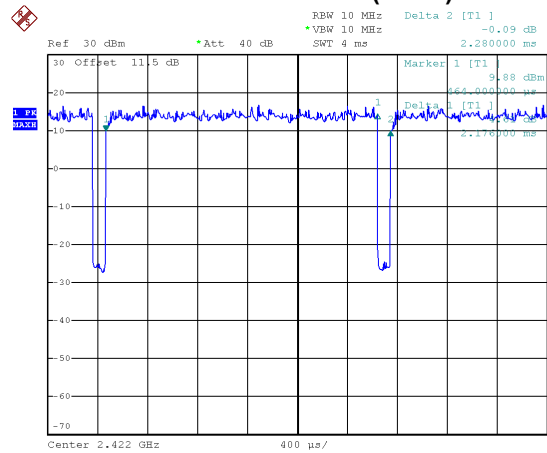
IEEE 802.11n(HT20)



Date: 25.FEB.2025 16:47:06

Duty cycle = 4.488 ms / 4.590 ms = 97.78%
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.10$

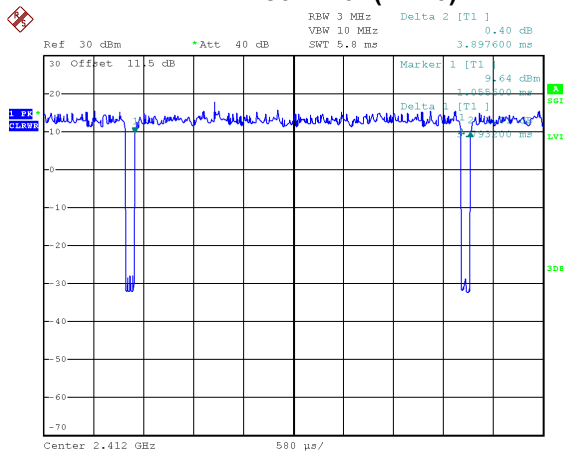
IEEE 802.11n(HT40)



Date: 25.FEB.2025 14:40:54

Duty cycle = 2.176 ms / 2.280 ms = 95.44%
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.20$

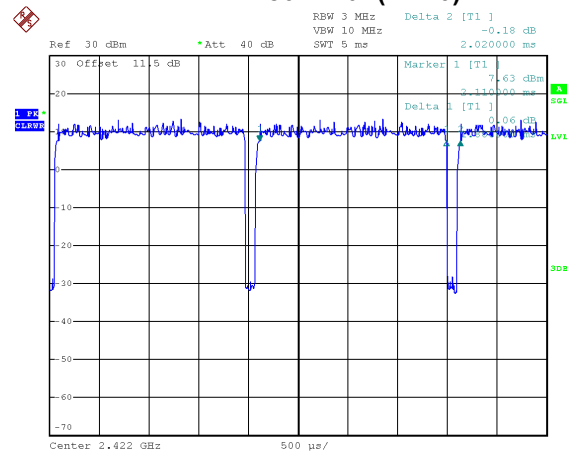
IEEE 802.11ax(HE20)



Date: 25.FEB.2025 15:03:47

Duty cycle = 3.793 ms / 3.898 ms = 97.32%
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.12$

IEEE 802.11ax(HE40)



Date: 25.FEB.2025 15:19:46

Duty cycle = 1.880 ms / 2.020 ms = 93.07%
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.31$

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 1 kHz.

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 223 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 460 Hz.

For IEEE 802.11ax(HE20):

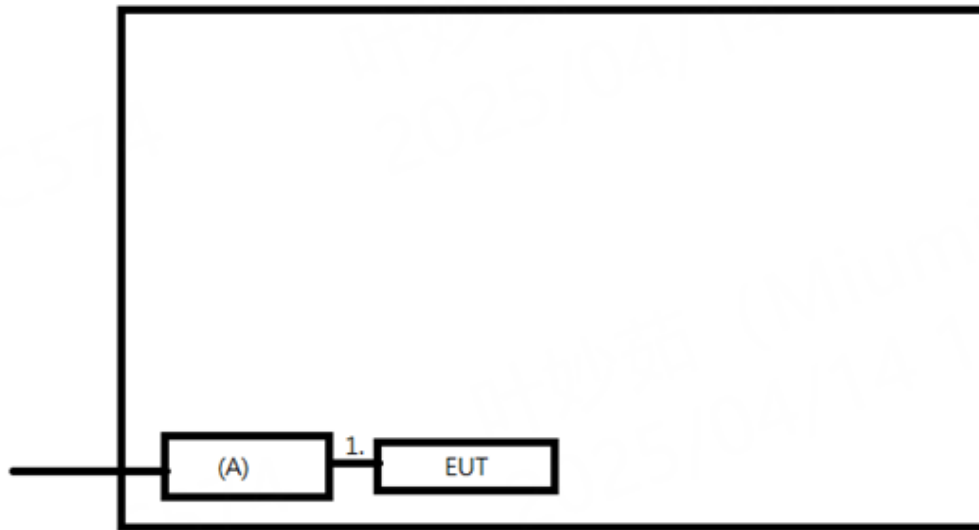
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 264 Hz.

For IEEE 802.11ax(HE40):

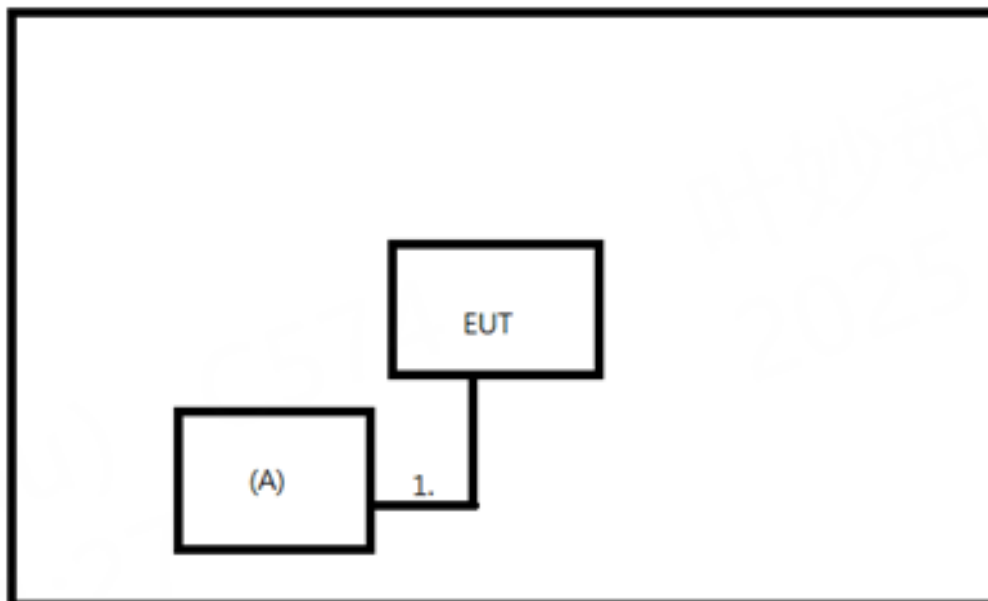
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 532 Hz.

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

AC power line conducted emissions



Radiated emissions



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Notebook	Dynabook	TECRA-A40-J	41029329H	Furnished by test lab

Item	Cable Type	Shielded	Ferrite Core	Length	Remarks
1	USB to USB Cable	NO	NO	1m	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.

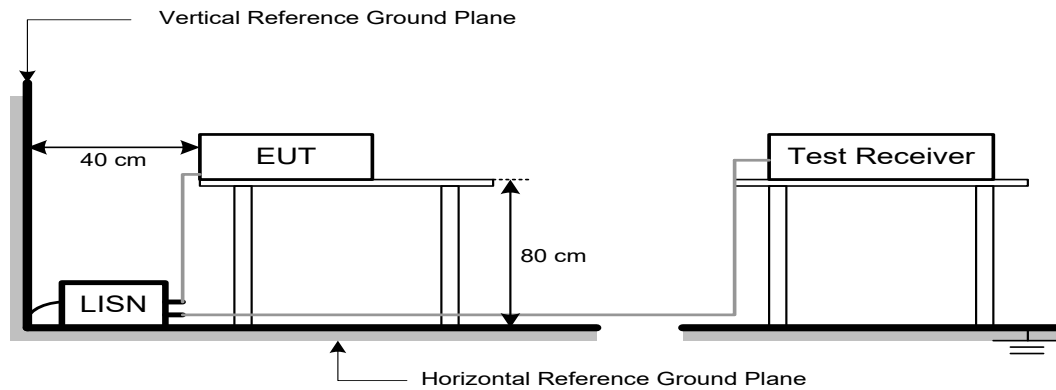
The following table is the setting of the receiver:

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 (dBμV/m)		Harmonic at 1m (dBμV/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 (dBμV/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 (dBμV)		Correct Factor (dB/m)		Measurement Value (dBμV/m)
19.11	+	2.11	=	21.22

Measurement Value (dBμV/m)		Limit Value (dBμV/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_{limit} : Harmonic at 3m Peak and Average limit.

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

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

d_{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

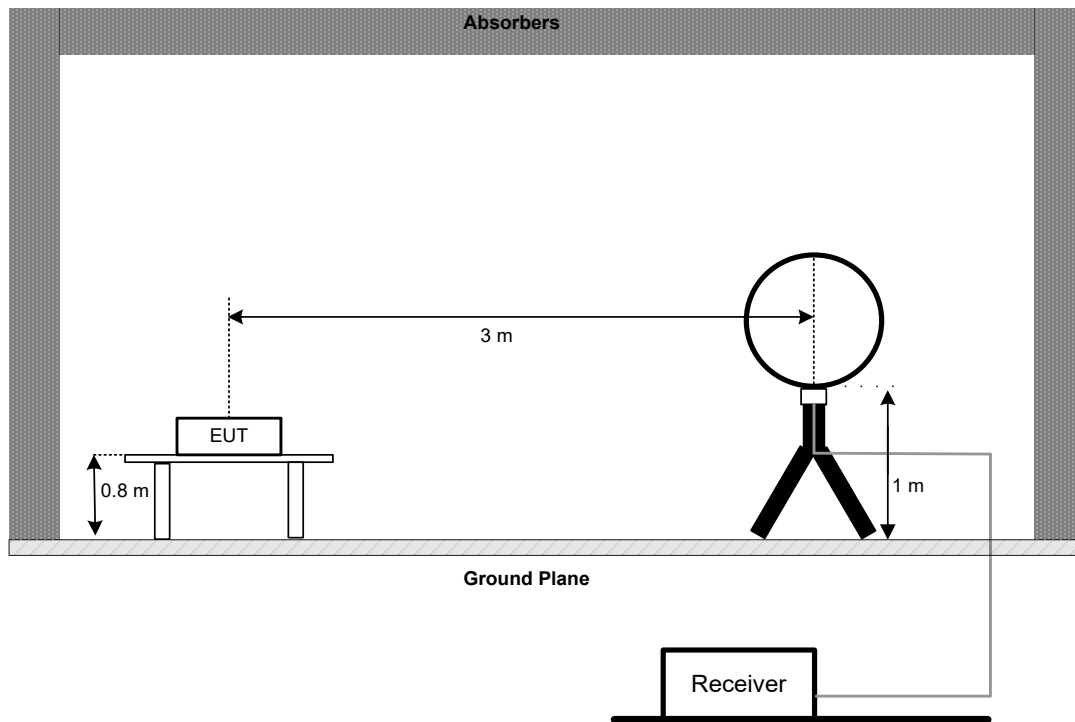
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

4.3 DEVIATION FROM TEST STANDARD

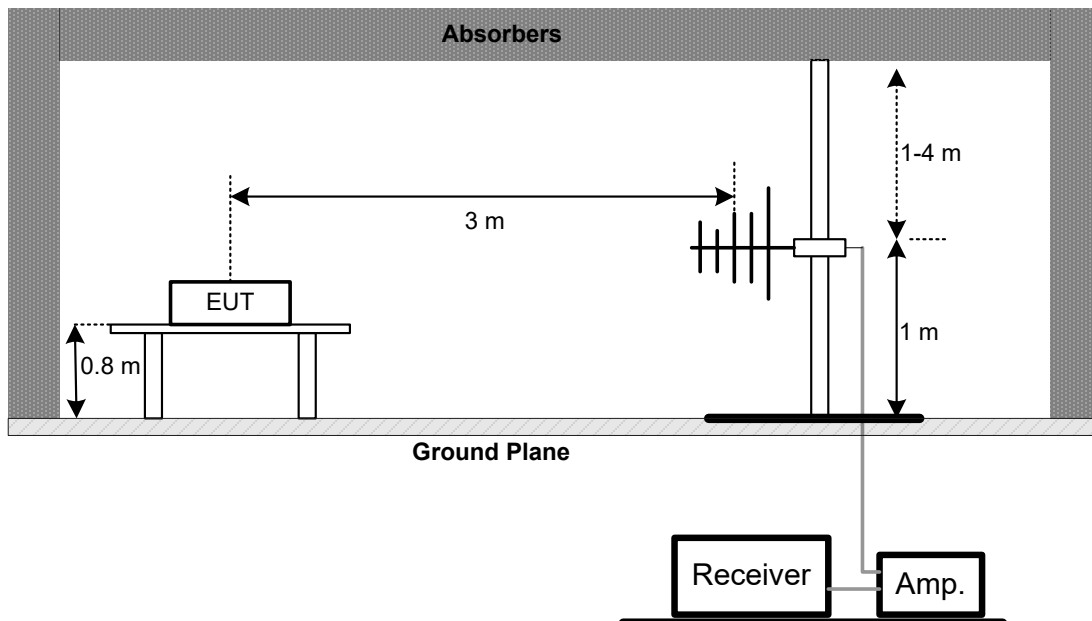
No deviation.

4.4 TEST SETUP

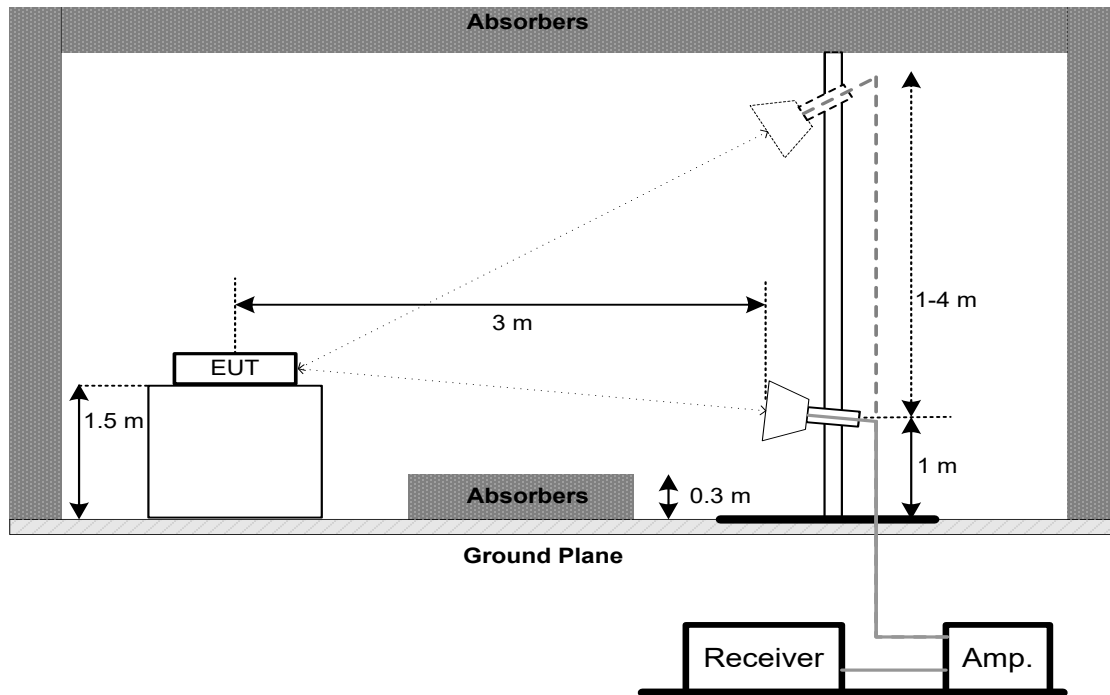
9 kHz to 30 MHz



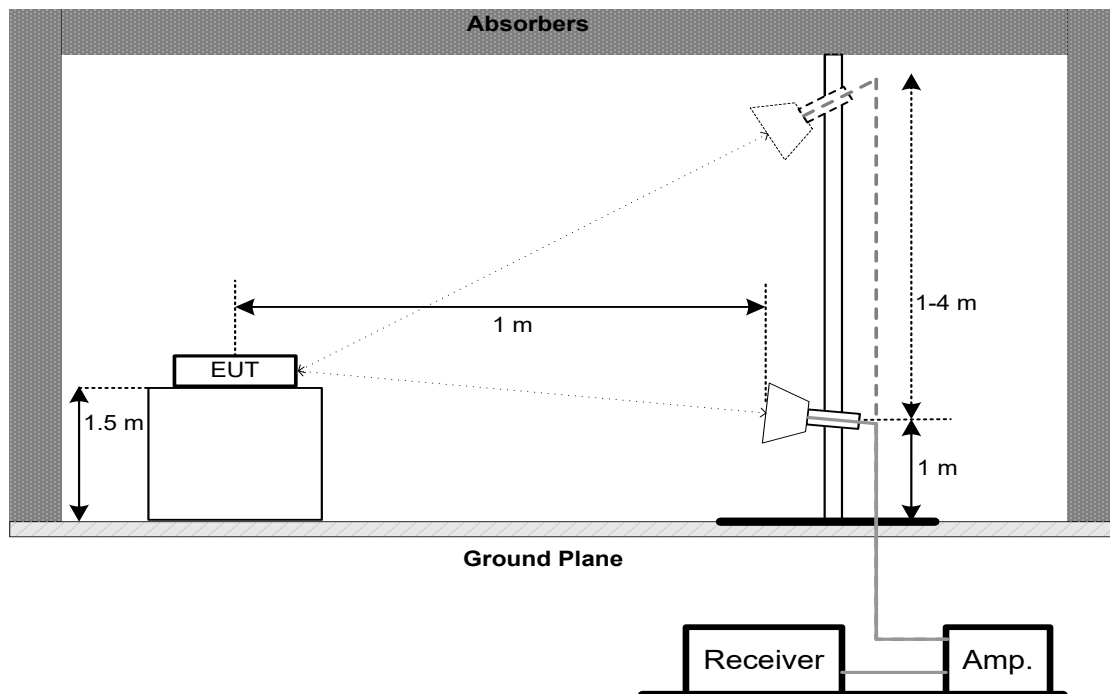
30 MHz to 1 GHz



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	> Measurement Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

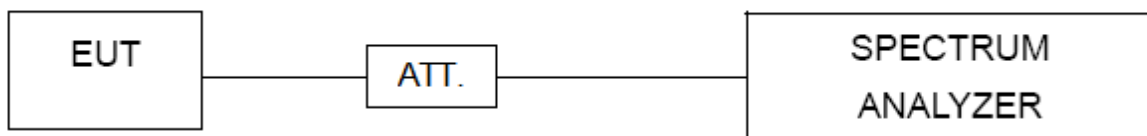
For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span	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 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

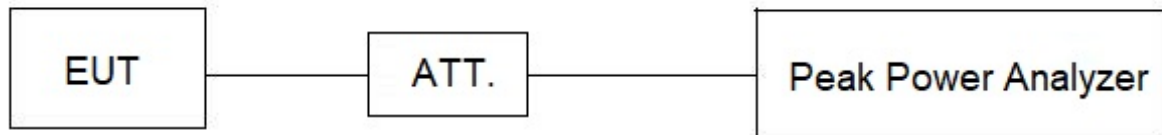
6.2 TEST PROCEDURE

- 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

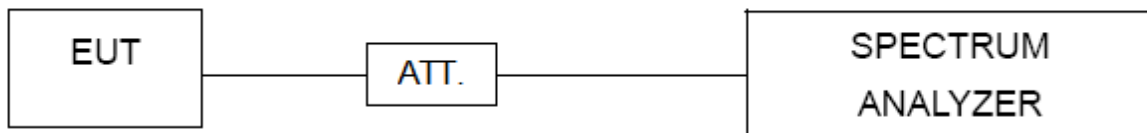
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

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	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 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
3	BTL-ConductedTest	BTL	1247788684	N/A	N/A	N/A

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
3	Measurement Software	Anritsu	MA2440A Peak Power analyzer(Ver1.1.0.0)	N/A	N/A	N/A

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

All calibration period of equipment list is one year.

10. EUT TEST PHOTO

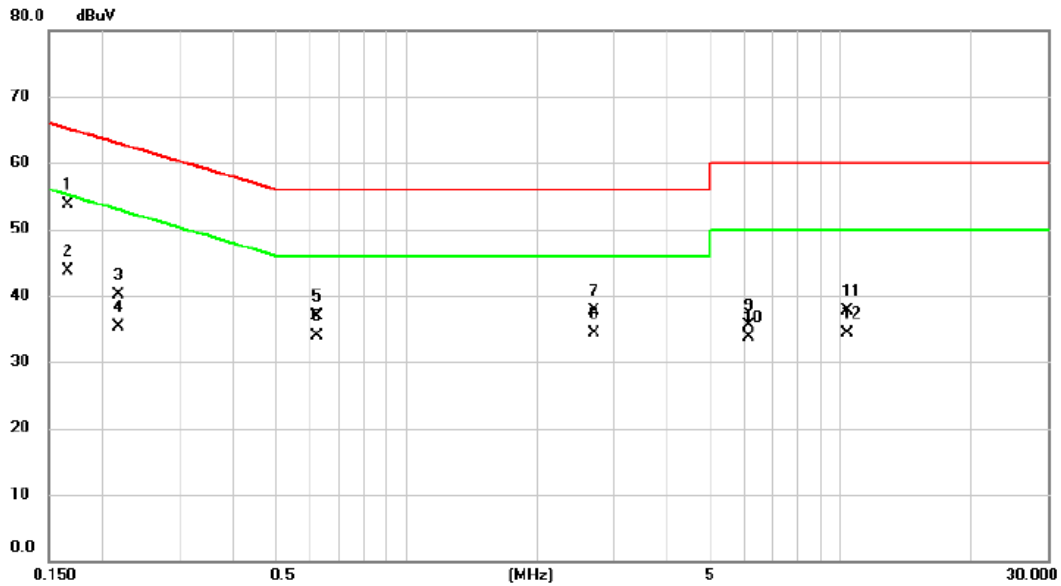
Please refer to document Appendix No.: TP-2501G018-1 (APPENDIX-TEST PHOTOS).

11. EUT PHOTOS

Please refer to document Appendix No.: EP-2501G018-1 (APPENDIX-EUT PHOTOS).

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Phase	Line
Test Frequency	-	Test Date	2025/2/18

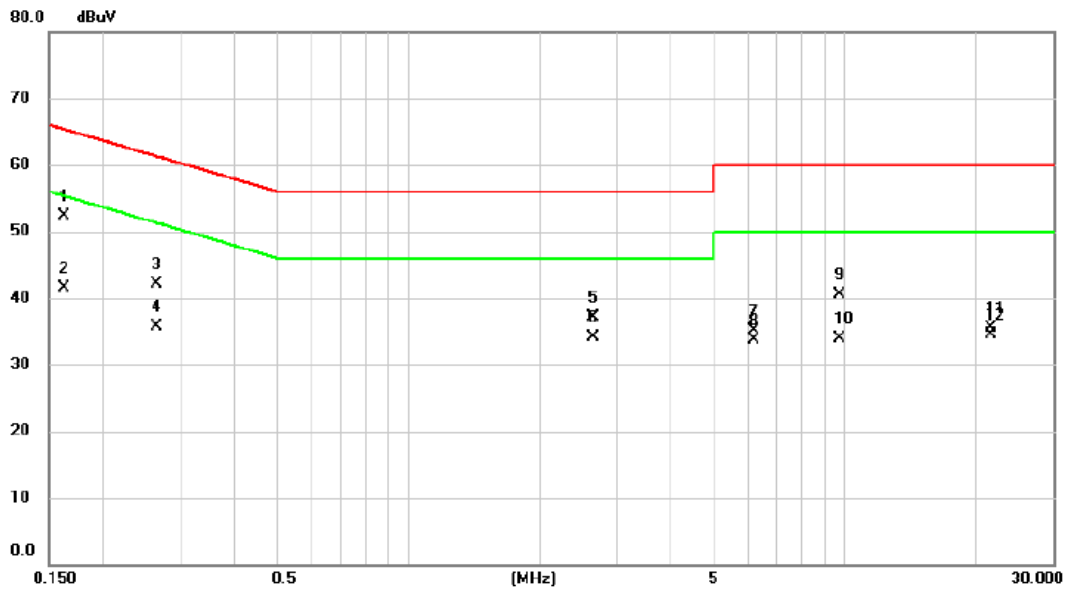


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1660	44.06	9.64	53.70	65.16	-11.46	QP	
2		0.1660	34.01	9.64	43.65	55.16	-11.51	AVG	
3		0.2168	30.55	9.62	40.17	62.94	-22.77	QP	
4		0.2168	25.59	9.62	35.21	52.94	-17.73	AVG	
5		0.6214	27.21	9.62	36.83	56.00	-19.17	QP	
6		0.6214	24.35	9.62	33.97	46.00	-12.03	AVG	
7		2.7140	27.99	9.74	37.73	56.00	-18.27	QP	
8		2.7140	24.53	9.74	34.27	46.00	-11.73	AVG	
9		6.1250	25.74	9.86	35.60	60.00	-24.40	QP	
10		6.1250	23.92	9.86	33.78	50.00	-16.22	AVG	
11		10.3250	27.75	10.00	37.75	60.00	-22.25	QP	
12		10.3250	24.24	10.00	34.24	50.00	-15.76	AVG	

REMARKS:

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

Test Mode	Normal	Phase	Neutral
Test Frequency	-	Test Date	2025/2/18



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1626	42.61	9.62	52.23	65.33	-13.10	QP	
2		0.1626	31.91	9.62	41.53	55.33	-13.80	AVG	
3		0.2651	32.42	9.61	42.03	61.27	-19.24	QP	
4		0.2651	26.06	9.61	35.67	51.27	-15.60	AVG	
5		2.6555	27.41	9.74	37.15	56.00	-18.85	QP	
6	*	2.6555	24.39	9.74	34.13	46.00	-11.87	AVG	
7		6.1750	25.24	9.87	35.11	60.00	-24.89	QP	
8		6.1750	23.82	9.87	33.69	50.00	-16.31	AVG	
9		9.7250	30.58	9.97	40.55	60.00	-19.45	QP	
10		9.7250	23.91	9.97	33.88	50.00	-16.12	AVG	
11		21.6000	25.22	10.37	35.59	60.00	-24.41	QP	
12		21.6000	24.10	10.37	34.47	50.00	-15.53	AVG	

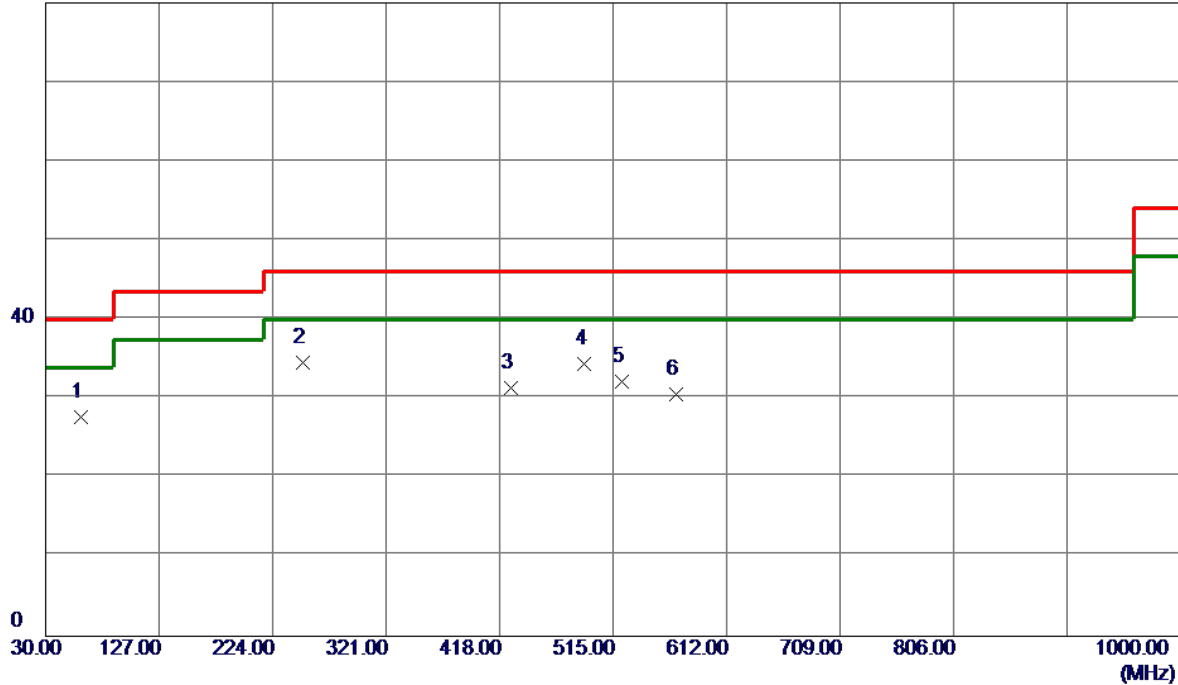
REMARKS:

- (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	AX(HE40) Mode	Polarization	Vertical
Test Frequency	2437 MHz	Test Date	2025/2/17

80 dBuV/m



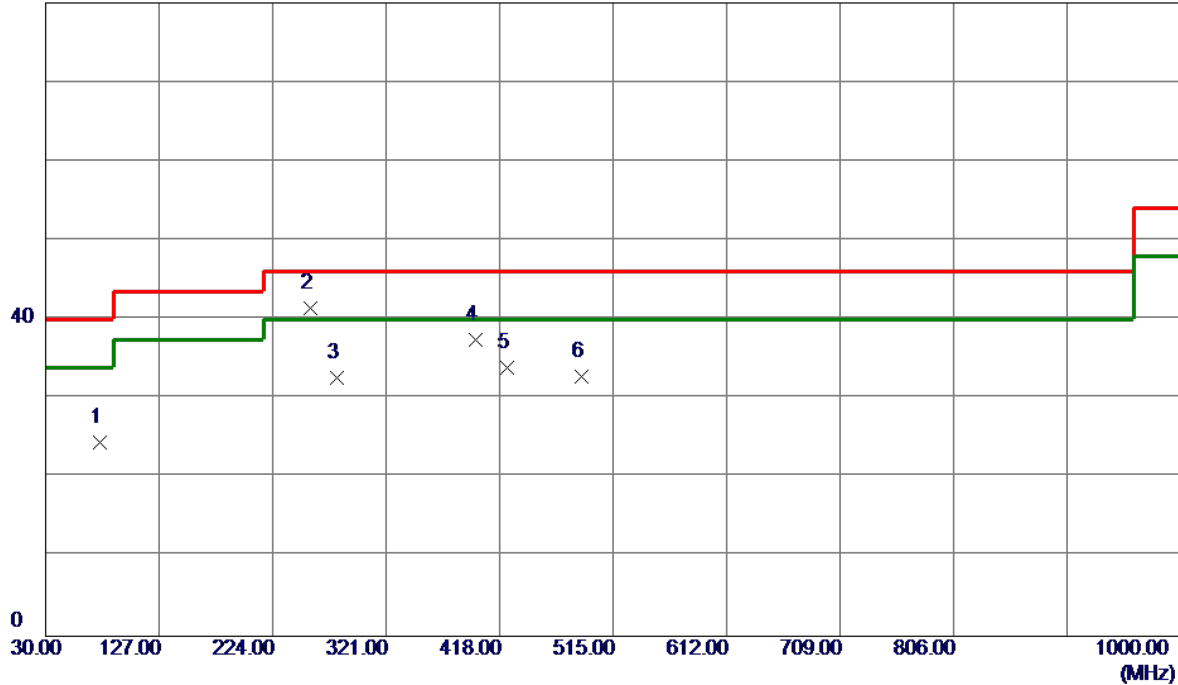
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	60.0700	39.40	-11.74	27.66	40.00	-12.34	Peak	
2 *	250.1900	46.30	-11.75	34.55	46.00	-11.45	Peak	
3	427.7000	37.64	-6.23	31.41	46.00	-14.59	Peak	
4	490.7500	39.53	-5.10	34.43	46.00	-11.57	Peak	
5	522.7600	36.70	-4.51	32.19	46.00	-13.81	Peak	
6	569.3200	33.91	-3.33	30.58	46.00	-15.42	Peak	

REMARKS:

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

Test Mode	AX(HE40) Mode	Polarization	Vertical
Test Frequency	2437 MHz	Test Date	2025/2/17

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	76.5600	39.61	-15.18	24.43	40.00	-15.57	Peak	
2 *	256.0100	52.97	-11.56	41.41	46.00	-4.59	Peak	
3	279.2900	43.13	-10.50	32.63	46.00	-13.37	Peak	
4	397.6300	44.51	-7.08	37.43	46.00	-8.57	Peak	
5	424.7900	40.18	-6.30	33.88	46.00	-12.12	Peak	
6	487.8400	37.96	-5.15	32.81	46.00	-13.19	Peak	

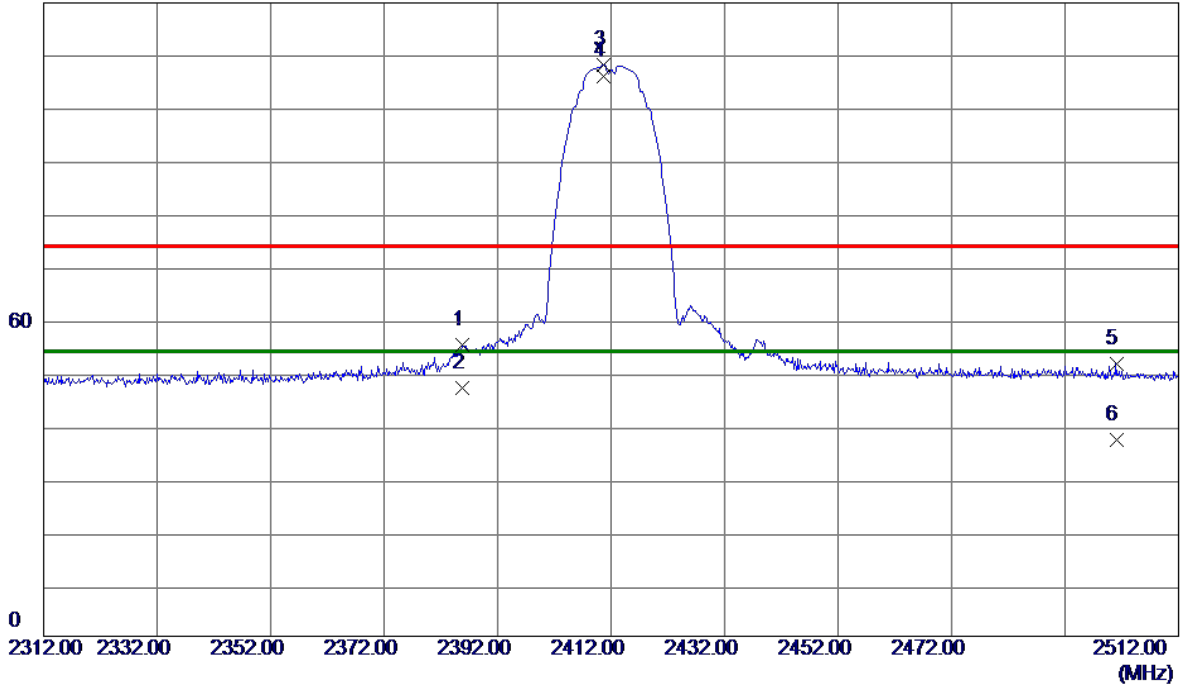
REMARKS:

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

APPENDIX C - RADIATED EMISSION- ABOVE 1000 MHZ

Test Mode	B Mode	Polarization	Vertical
Test Frequency	2412 MHz	Test Date	2025/2/17

120 dBuV/m



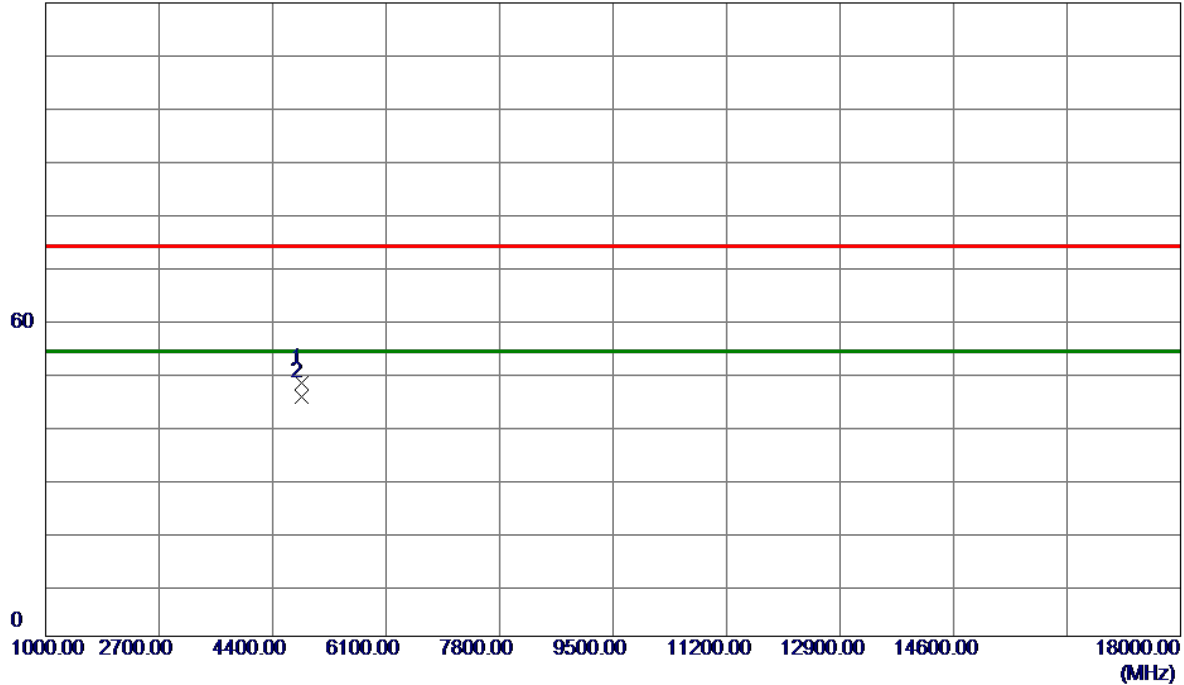
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2385.8000	50.05	5.23	55.28	74.00	-18.72	Peak	
2	2385.8000	41.73	5.23	46.96	54.00	-7.04	AVG	
3	2410.6000	102.97	5.28	108.25	74.00	34.25	Peak	No Limit
4 *	2410.6000	100.82	5.28	106.10	54.00	52.10	AVG	No Limit
5	2501.0000	46.08	5.44	51.52	74.00	-22.48	Peak	
6	2501.0000	31.67	5.44	37.11	54.00	-16.89	AVG	

REMARKS:

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

Test Mode	B Mode	Polarization	Vertical
Test Frequency	2412 MHz	Test Date	2025/2/17

120 dBuV/m



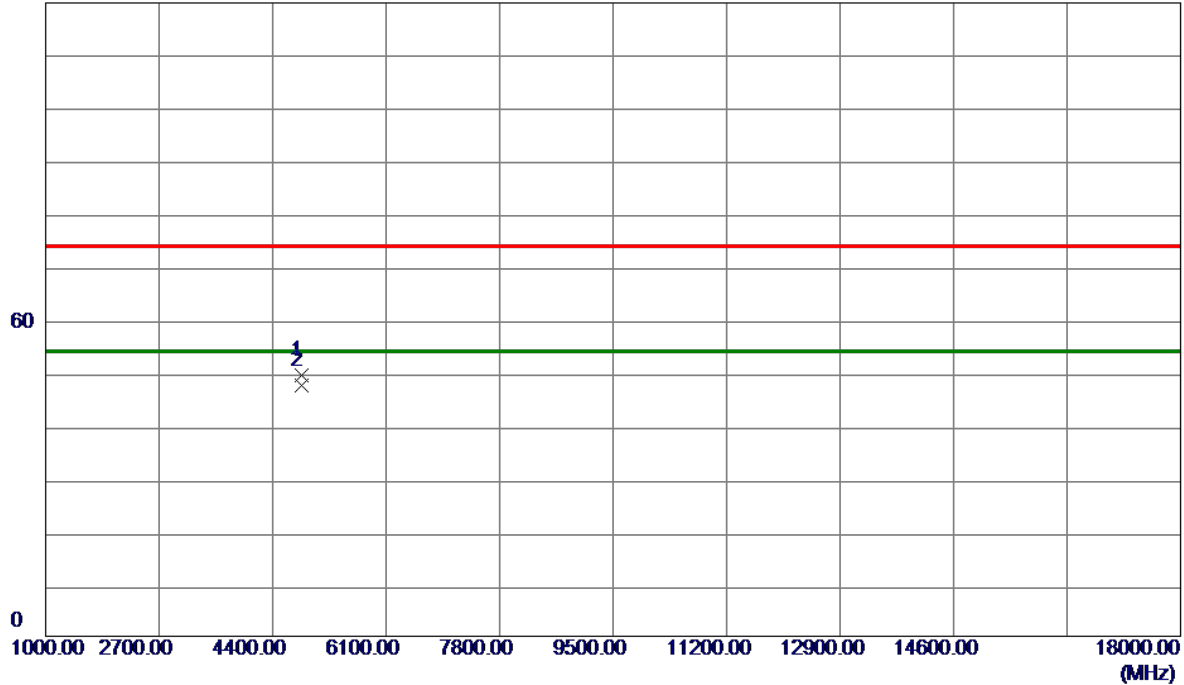
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4825.0000	46.10	1.79	47.89	74.00	-26.11	Peak	
2 *	4825.0000	43.53	1.79	45.32	54.00	-8.68	AVG	

REMARKS:

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

Test Mode	B Mode	Polarization	Horizontal
Test Frequency	2412 MHz	Test Date	2025/2/17

120 dBuV/m



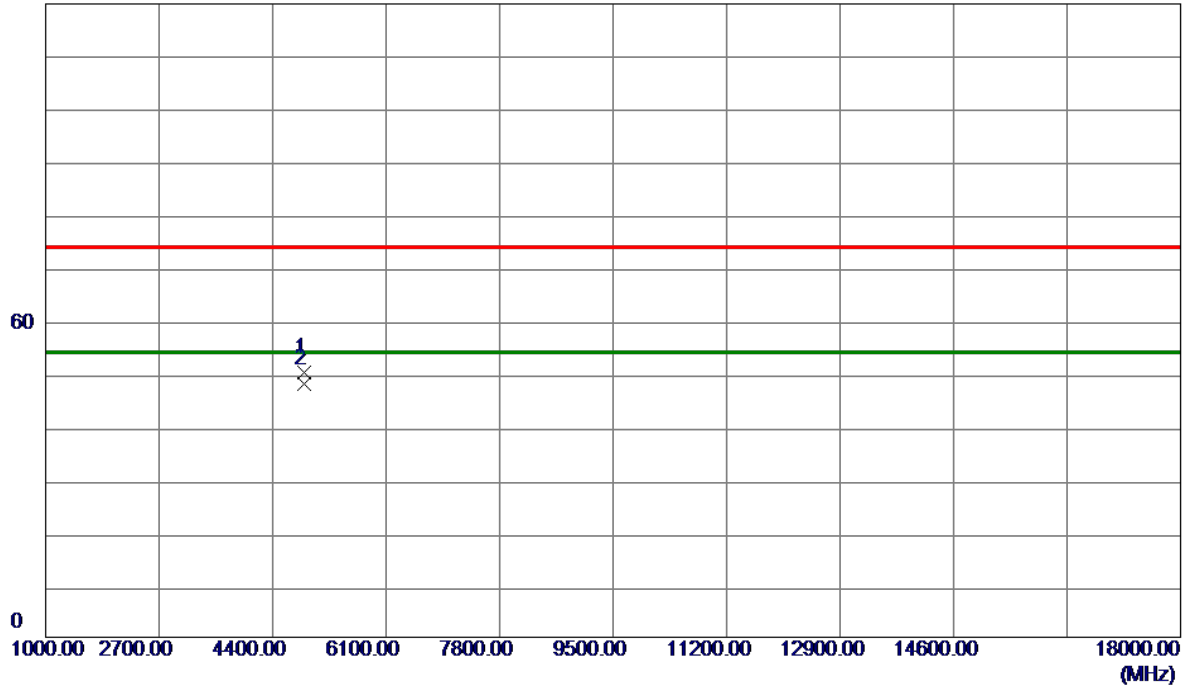
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4825.0000	47.68	1.79	49.47	74.00	-24.53	Peak	
2 *	4825.0000	45.72	1.79	47.51	54.00	-6.49	AVG	

REMARKS:

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

Test Mode	B Mode	Polarization	Vertical
Test Frequency	2437 MHz	Test Date	2025/2/17

120 dBuV/m



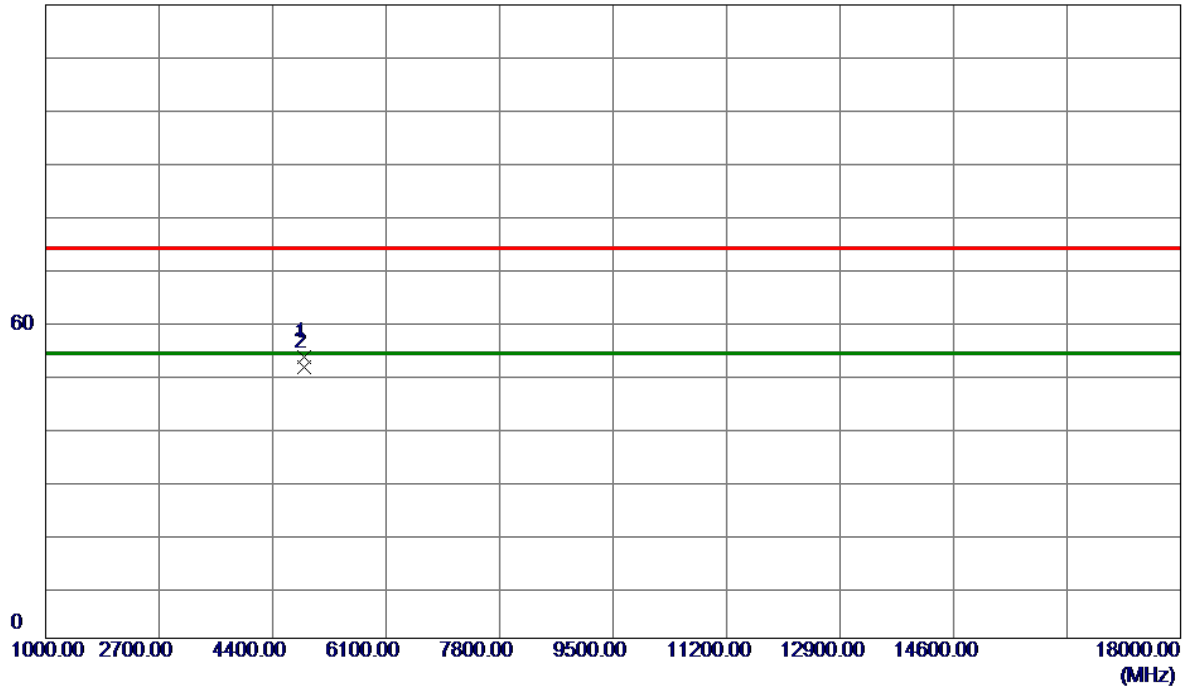
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4876.0000	48.19	1.88	50.07	74.00	-23.93	Peak	
2 *	4876.0000	46.03	1.88	47.91	54.00	-6.09	AVG	

REMARKS:

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

Test Mode	B Mode	Polarization	Horizontal
Test Frequency	2437 MHz	Test Date	2025/2/17

120 dBuV/m



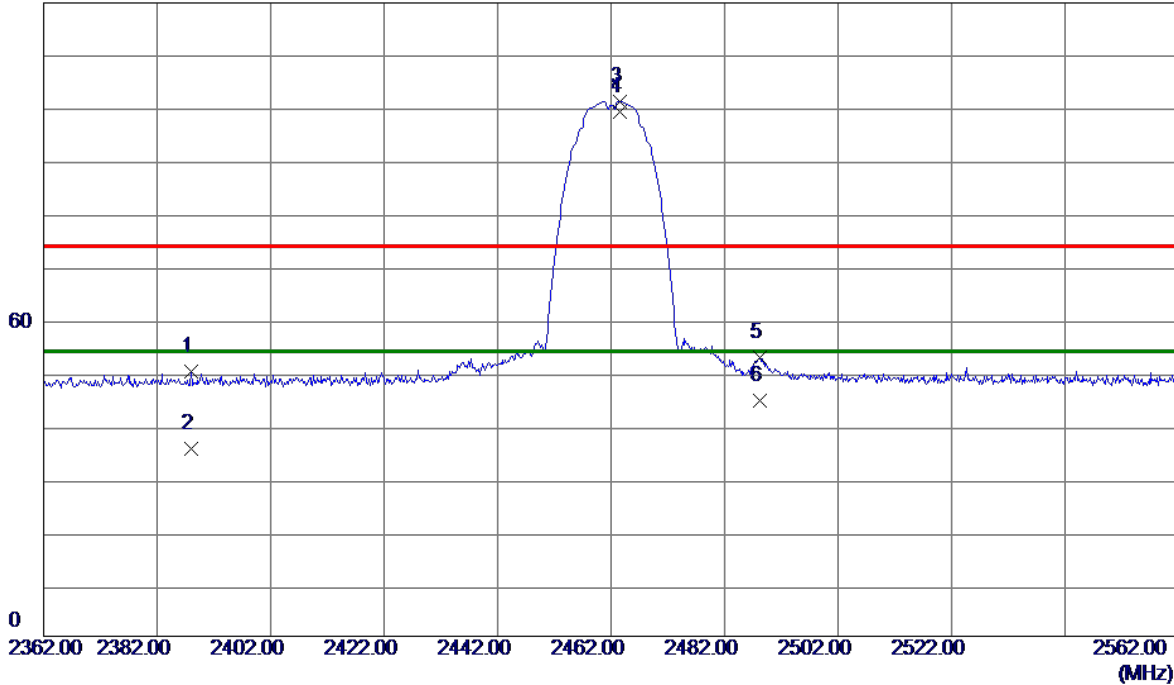
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4876.0000	51.34	1.88	53.22	74.00	-20.78	Peak	
2 *	4876.0000	49.47	1.88	51.35	54.00	-2.65	AVG	

REMARKS:

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

Test Mode	B Mode	Polarization	Vertical
Test Frequency	2462 MHz	Test Date	2025/2/17

120 dBuV/m



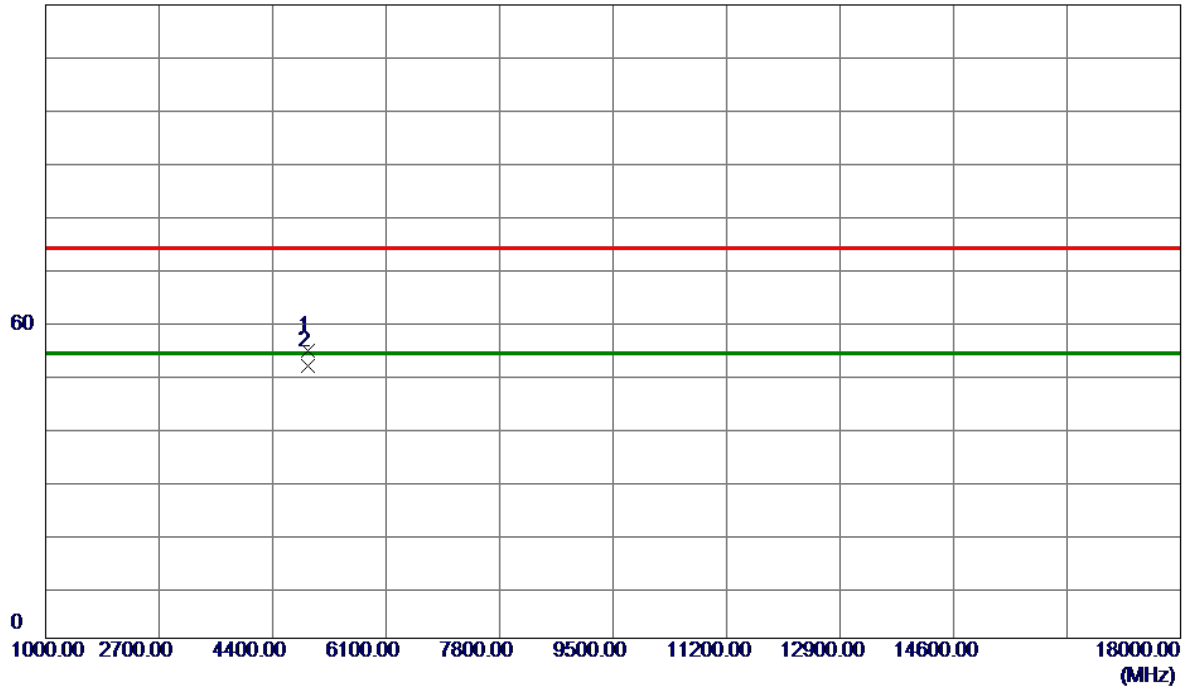
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.0000	44.96	5.24	50.20	74.00	-23.80	Peak	
2	2388.0000	30.29	5.24	35.53	54.00	-18.47	AVG	
3	2463.6000	95.90	5.37	101.27	74.00	27.27	Peak	No Limit
4 *	2463.6000	94.10	5.37	99.47	54.00	45.47	AVG	No Limit
5	2488.2000	47.32	5.42	52.74	74.00	-21.26	Peak	
6	2488.2000	39.31	5.42	44.73	54.00	-9.27	AVG	

REMARKS:

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

Test Mode	B Mode	Polarization	Vertical
Test Frequency	2462 MHz	Test Date	2025/2/17

120 dBuV/m



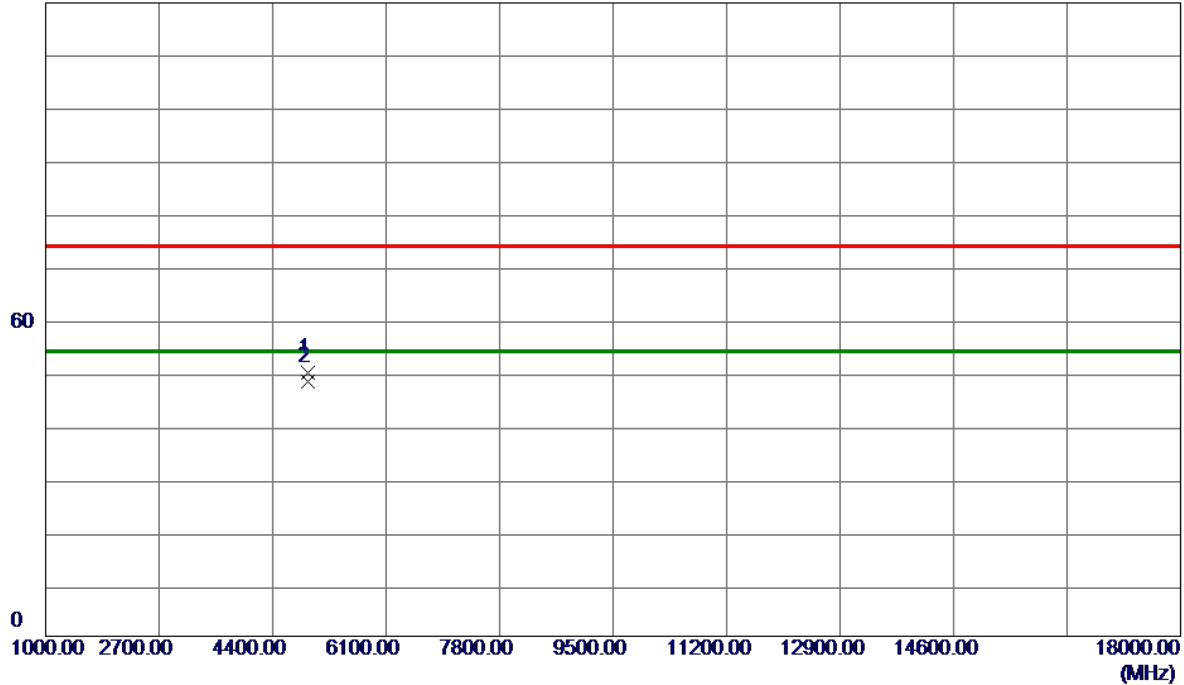
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4927.0000	52.48	1.96	54.44	74.00	-19.56	Peak	
2 *	4927.0000	49.66	1.96	51.62	54.00	-2.38	AVG	

REMARKS:

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

Test Mode	B Mode	Polarization	Horizontal
Test Frequency	2462 MHz	Test Date	2025/2/17

120 dBuV/m



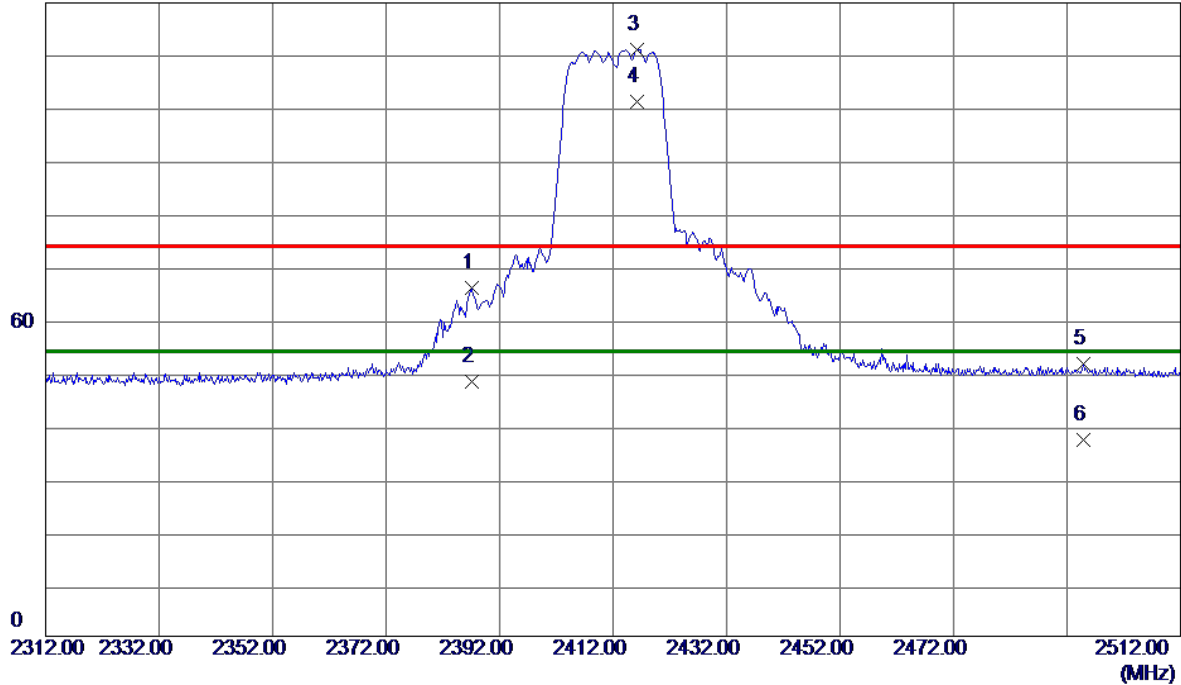
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4927.0000	48.02	1.96	49.98	74.00	-24.02	Peak	
2 *	4927.0000	46.37	1.96	48.33	54.00	-5.67	AVG	

REMARKS:

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

Test Mode	G Mode	Polarization	Vertical
Test Frequency	2412 MHz	Test Date	2025/2/17

120 dBuV/m



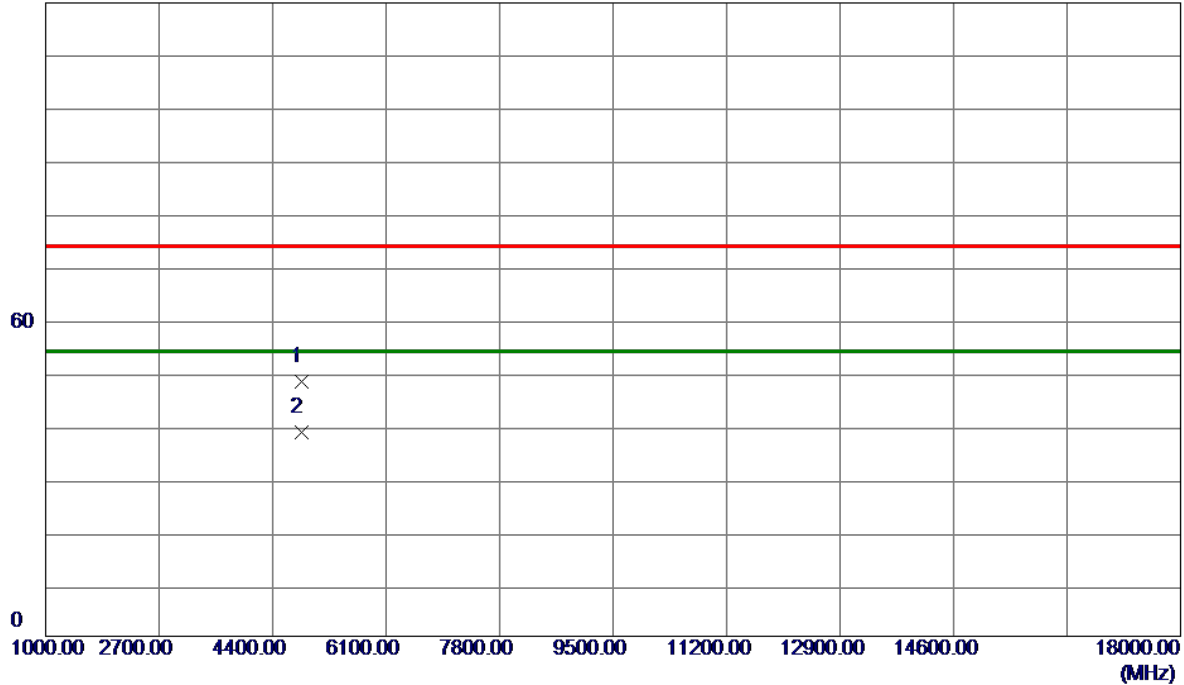
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.2000	60.87	5.24	66.11	74.00	-7.89	Peak	
2	2387.2000	43.08	5.24	48.32	54.00	-5.68	AVG	
3	2416.2000	105.83	5.29	111.12	74.00	37.12	Peak	No Limit
4 *	2416.2000	96.06	5.29	101.35	54.00	47.35	AVG	No Limit
5	2494.8000	46.09	5.43	51.52	74.00	-22.48	Peak	
6	2494.8000	31.67	5.43	37.10	54.00	-16.90	AVG	

REMARKS:

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

Test Mode	G Mode	Polarization	Vertical
Test Frequency	2412 MHz	Test Date	2025/2/17

120 dBuV/m

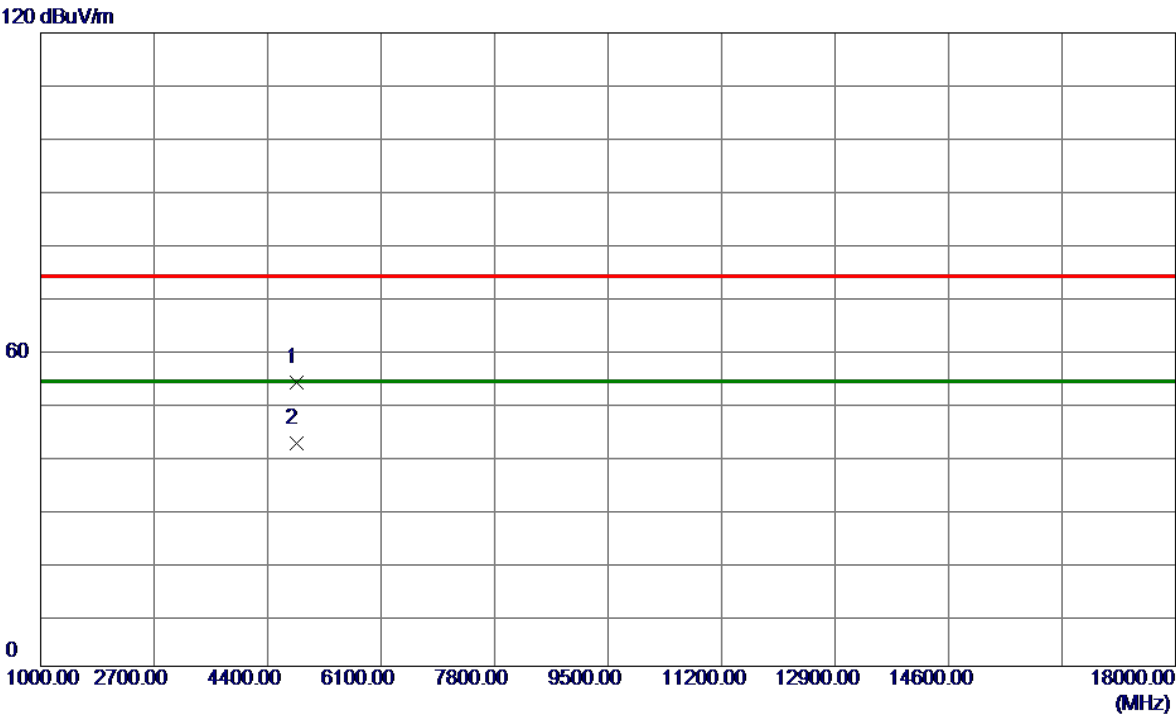


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4825.0000	46.50	1.79	48.29	74.00	-25.71	Peak	
2 *	4825.0000	36.95	1.79	38.74	54.00	-15.26	AVG	

REMARKS:

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

Test Mode	G Mode	Polarization	Horizontal
Test Frequency	2412 MHz	Test Date	2025/2/17

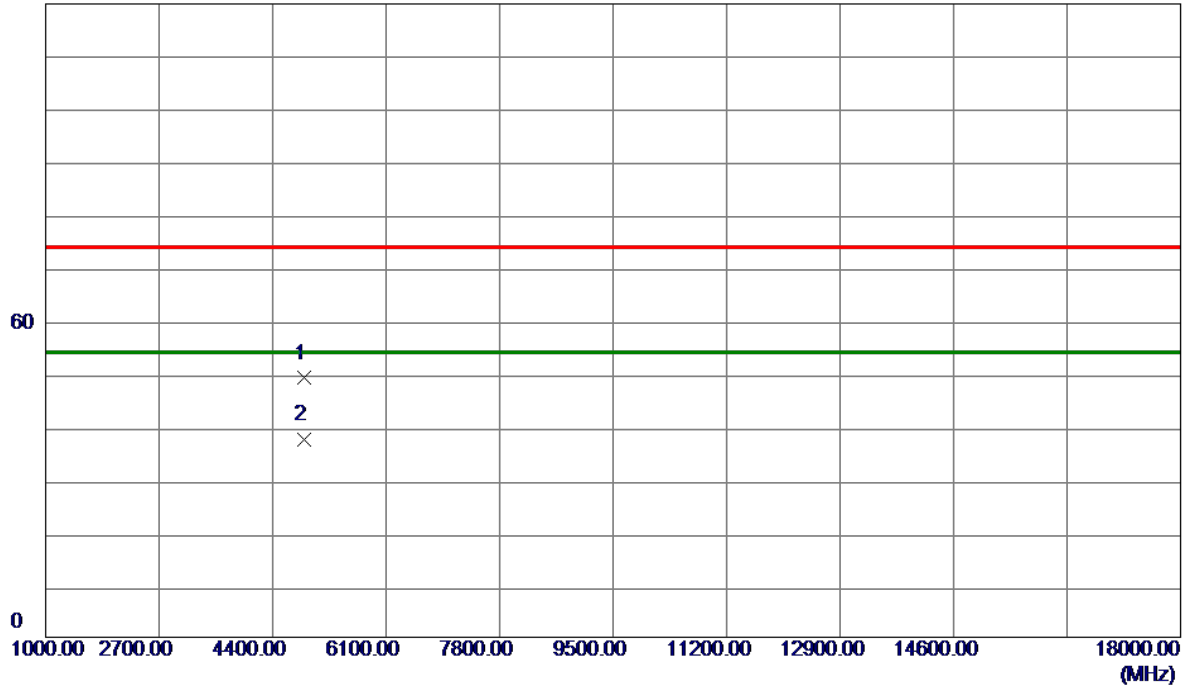


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4825.0000	51.96	1.79	53.75	74.00	-20.25	Peak	
2 *	4825.0000	40.56	1.79	42.35	54.00	-11.65	AVG	

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

Test Mode	G Mode	Polarization	Vertical
Test Frequency	2437 MHz	Test Date	2025/2/17

120 dBuV/m



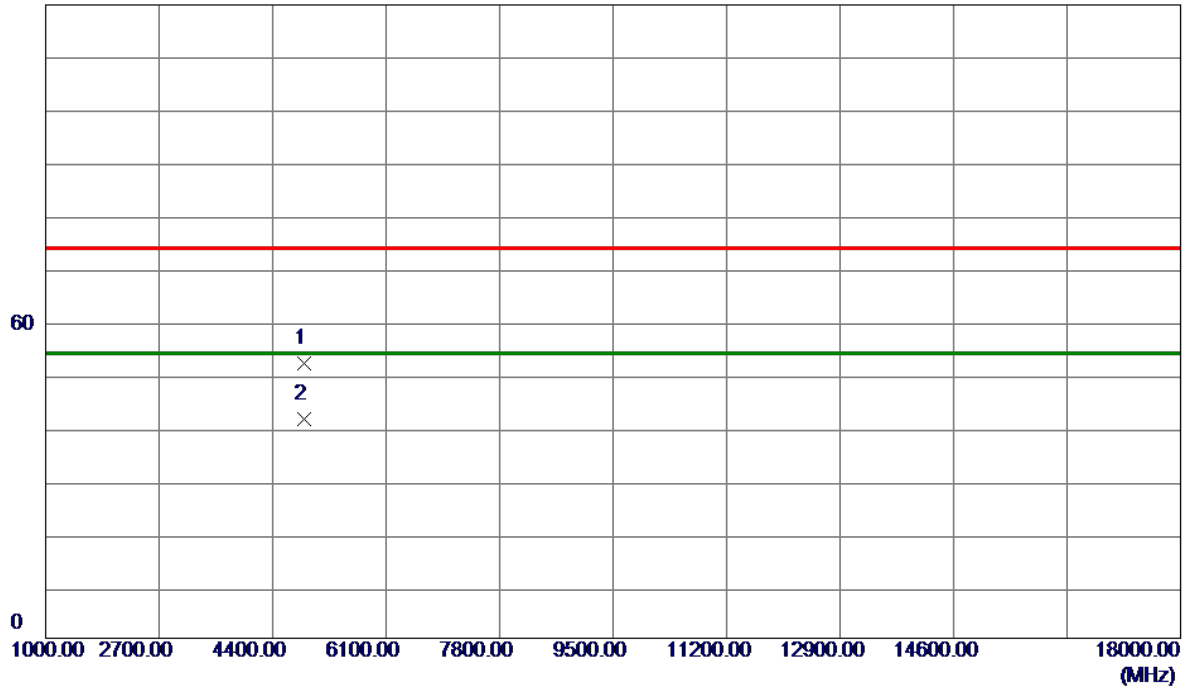
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4876.0000	47.20	1.88	49.08	74.00	-24.92	Peak	
2 *	4876.0000	35.61	1.88	37.49	54.00	-16.51	AVG	

REMARKS:

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

Test Mode	G Mode	Polarization	Horizontal
Test Frequency	2437 MHz	Test Date	2025/2/17

120 dBuV/m



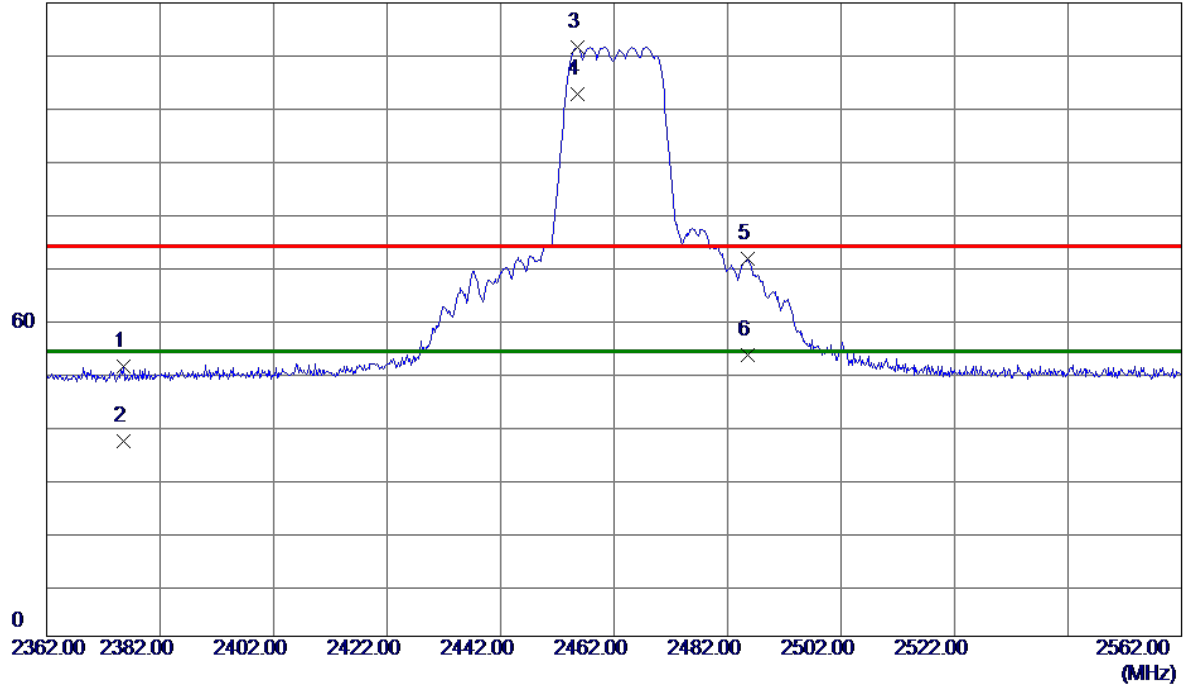
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4876.0000	50.15	1.88	52.03	74.00	-21.97	Peak	
2 *	4876.0000	39.74	1.88	41.62	54.00	-12.38	AVG	

REMARKS:

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

Test Mode	G Mode	Polarization	Vertical
Test Frequency	2462 MHz	Test Date	2025/2/17

120 dBuV/m



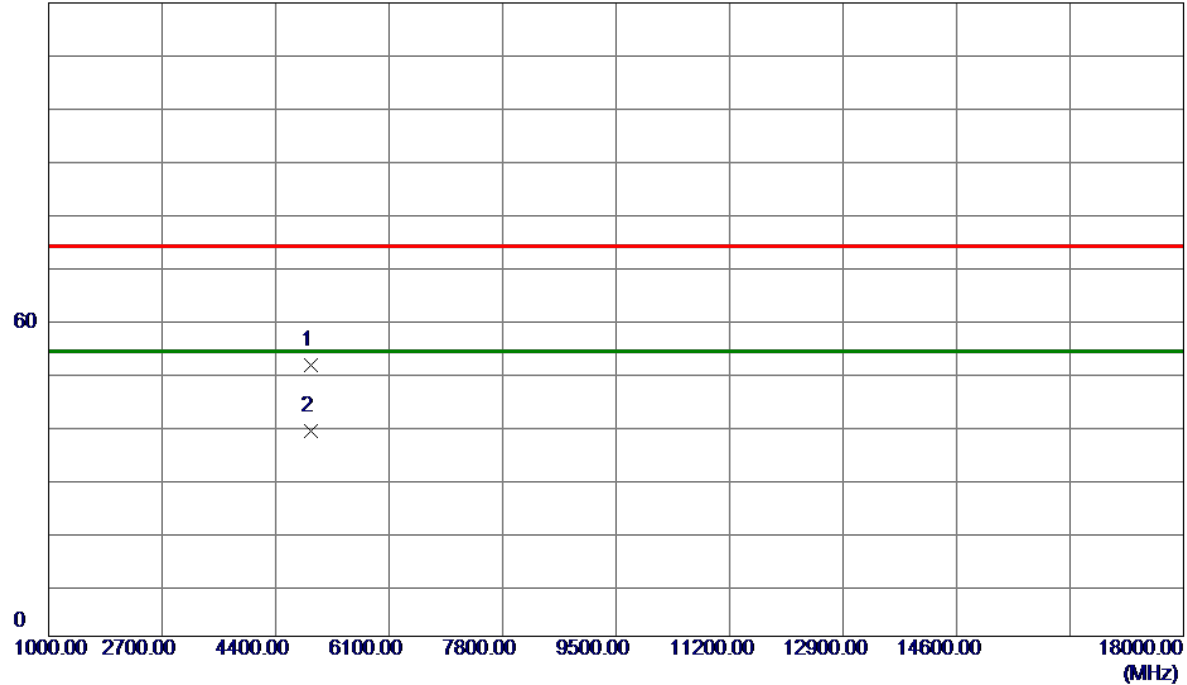
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2375.6000	45.84	5.22	51.06	74.00	-22.94	Peak	
2	2375.6000	31.80	5.22	37.02	54.00	-16.98	AVG	
3	2455.6000	106.30	5.36	111.66	74.00	37.66	Peak	No Limit
4 *	2455.6000	97.34	5.36	102.70	54.00	48.70	AVG	No Limit
5	2485.6000	66.03	5.41	71.44	74.00	-2.56	Peak	
6	2485.6000	47.89	5.41	53.30	54.00	-0.70	AVG	

REMARKS:

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

Test Mode	G Mode	Polarization	Vertical
Test Frequency	2462 MHz	Test Date	2025/2/17

120 dBuV/m

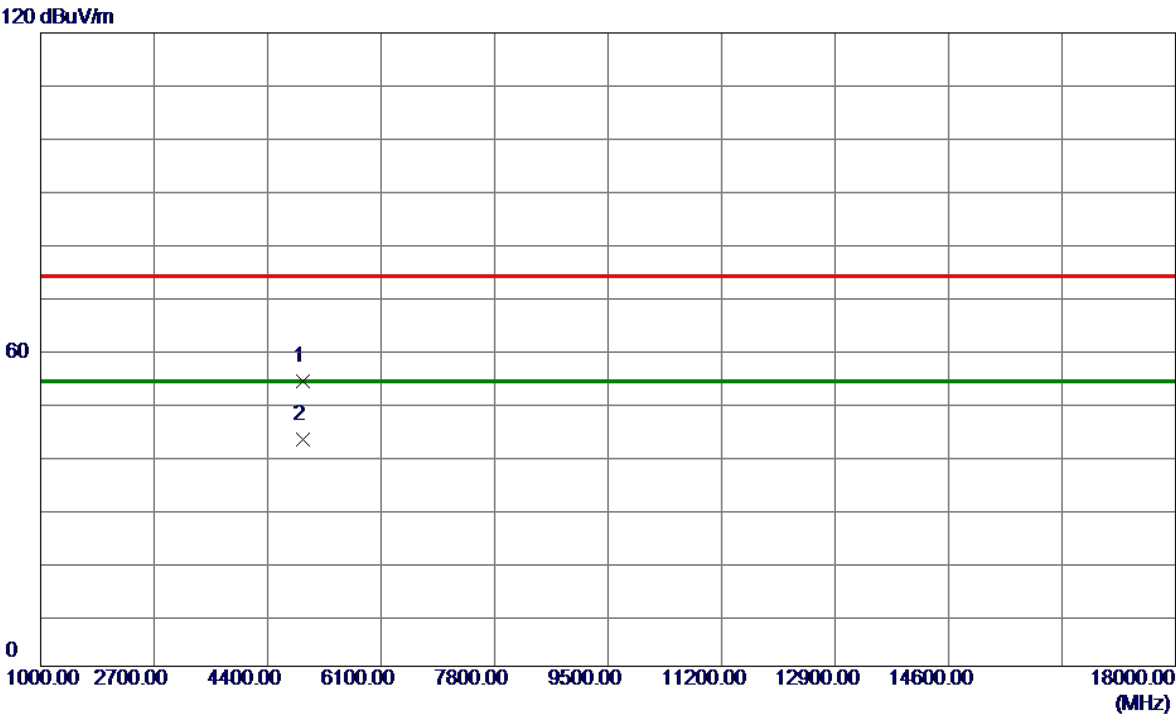


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4927.0000	49.45	1.96	51.41	74.00	-22.59	Peak	
2 *	4927.0000	37.00	1.96	38.96	54.00	-15.04	AVG	

REMARKS:

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

Test Mode	G Mode	Polarization	Horizontal
Test Frequency	2462 MHz	Test Date	2025/2/17

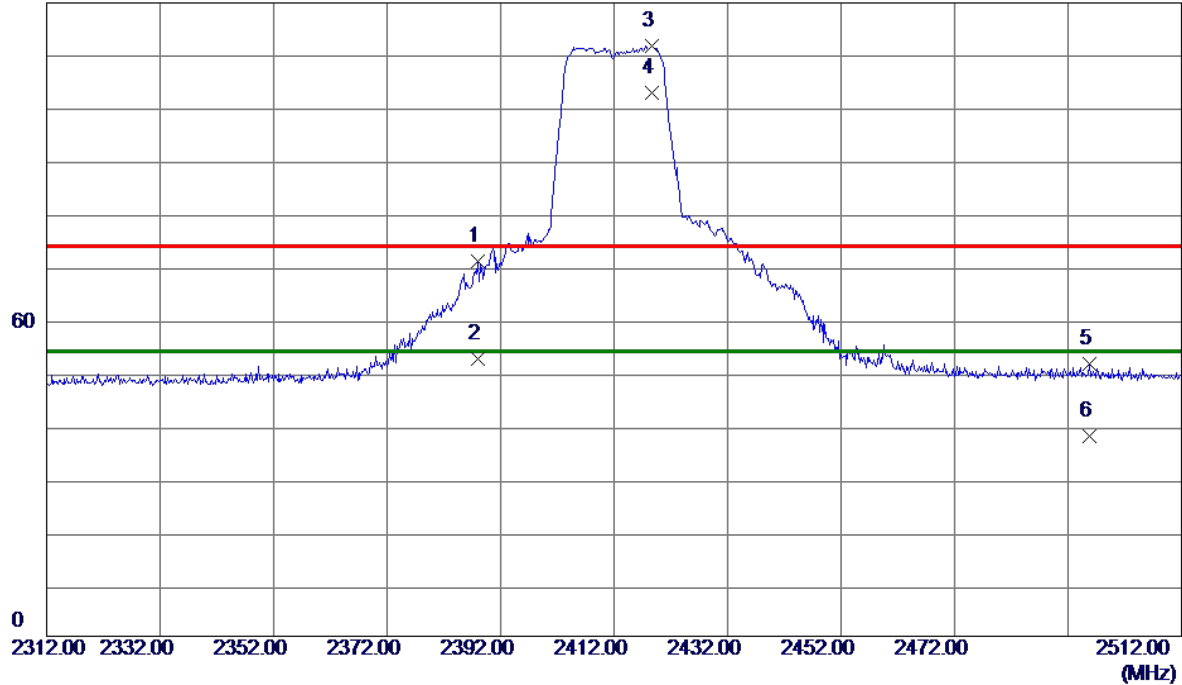


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4927.0000	52.00	1.96	53.96	74.00	-20.04	Peak	
2 *	4927.0000	40.95	1.96	42.91	54.00	-11.09	AVG	

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

Test Mode	N(HT20) Mode	Polarization	Vertical
Test Frequency	2412 MHz	Test Date	2025/2/17

120 dBuV/m



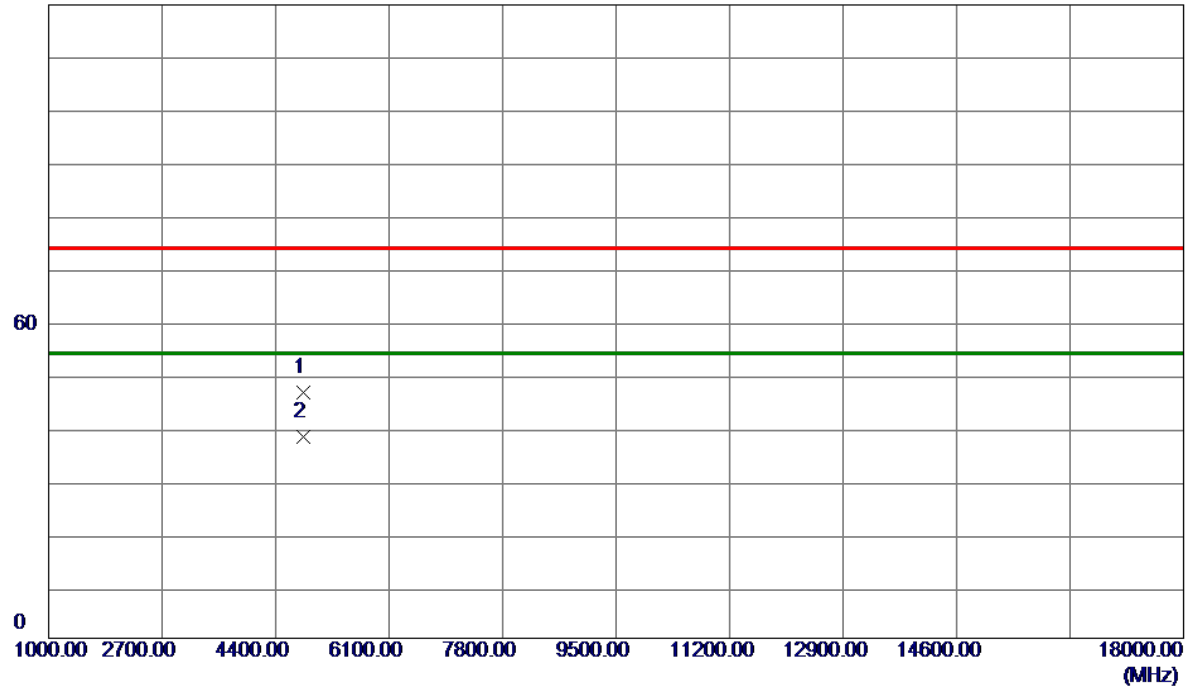
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.0000	65.74	5.24	70.98	74.00	-3.02	Peak	
2	2388.0000	47.33	5.24	52.57	54.00	-1.43	AVG	
3	2418.6000	106.59	5.29	111.88	74.00	37.88	Peak	No Limit
4 *	2418.6000	97.64	5.29	102.93	54.00	48.93	AVG	No Limit
5	2495.8000	46.24	5.43	51.67	74.00	-22.33	Peak	
6	2495.8000	32.40	5.43	37.83	54.00	-16.17	AVG	

REMARKS:

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

Test Mode	N(HT20) Mode	Polarization	Vertical
Test Frequency	2412 MHz	Test Date	2025/2/17

120 dBuV/m

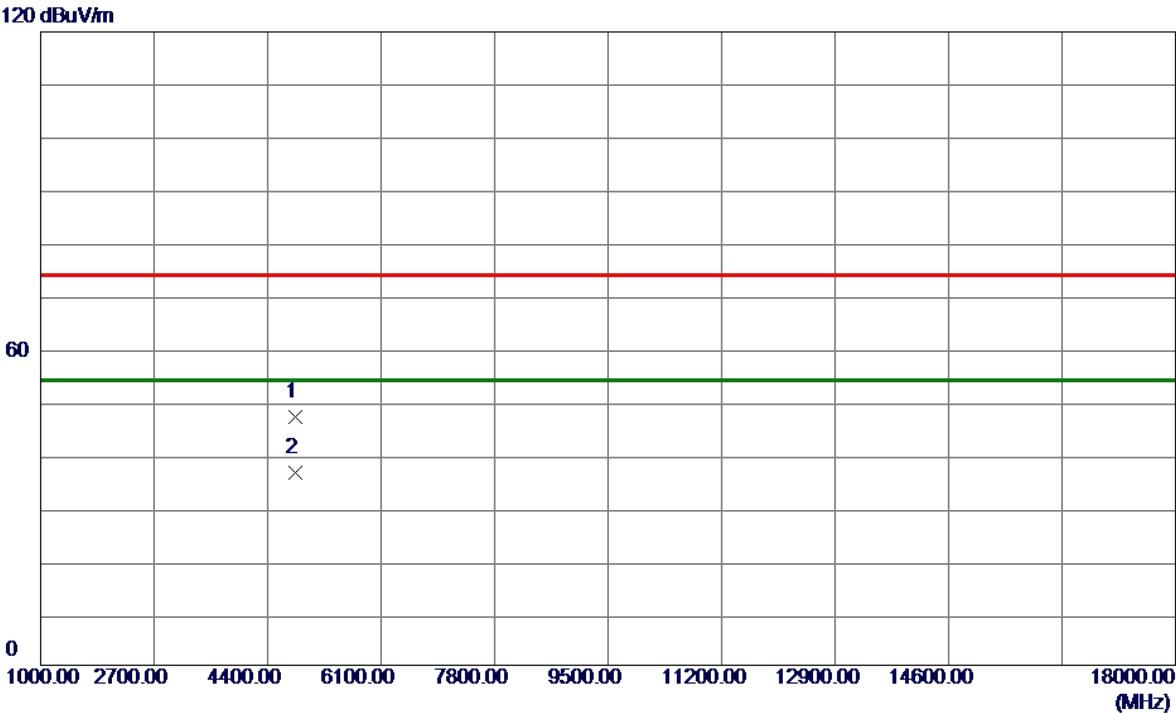


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	44.78	1.79	46.57	74.00	-27.43	Peak	
2 *	4824.0000	36.44	1.79	38.23	54.00	-15.77	AVG	

REMARKS:

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

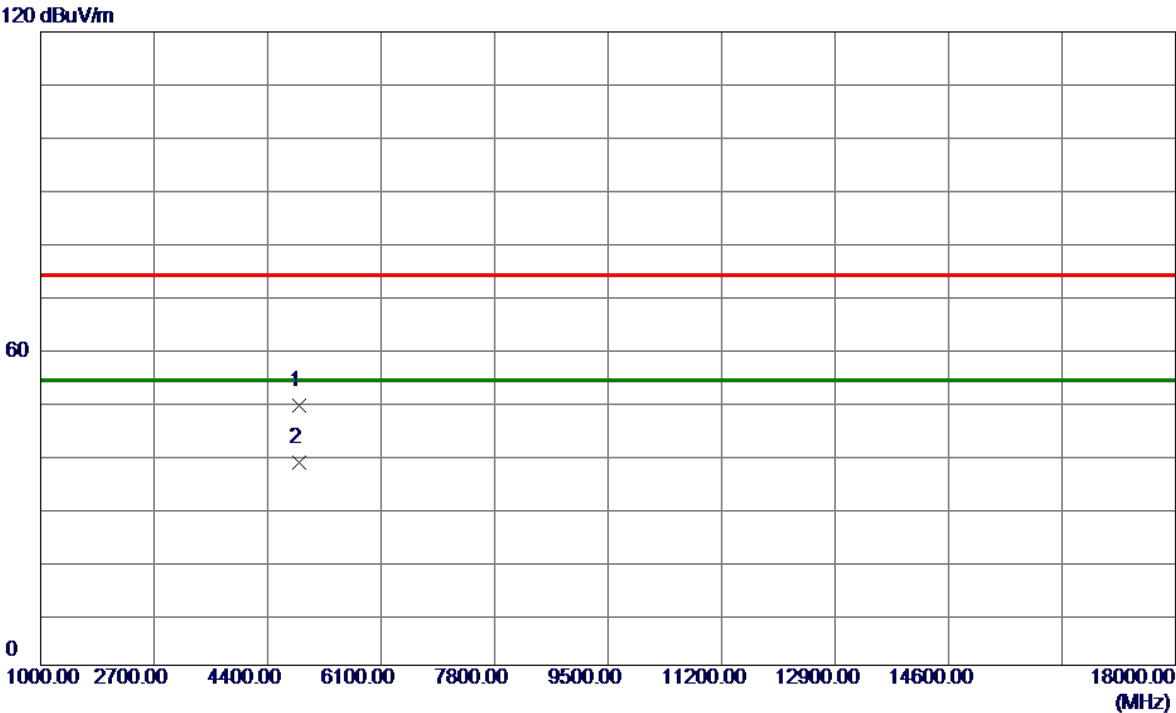
Test Mode	N(HT20) Mode	Polarization	Horizontal
Test Frequency	2412 MHz	Test Date	2025/2/17



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	45.14	1.79	46.93	74.00	-27.07	Peak	
2 *	4824.0000	34.64	1.79	36.43	54.00	-17.57	AVG	

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

Test Mode	N(HT20) Mode	Polarization	Vertical
Test Frequency	2437 MHz	Test Date	2025/2/17

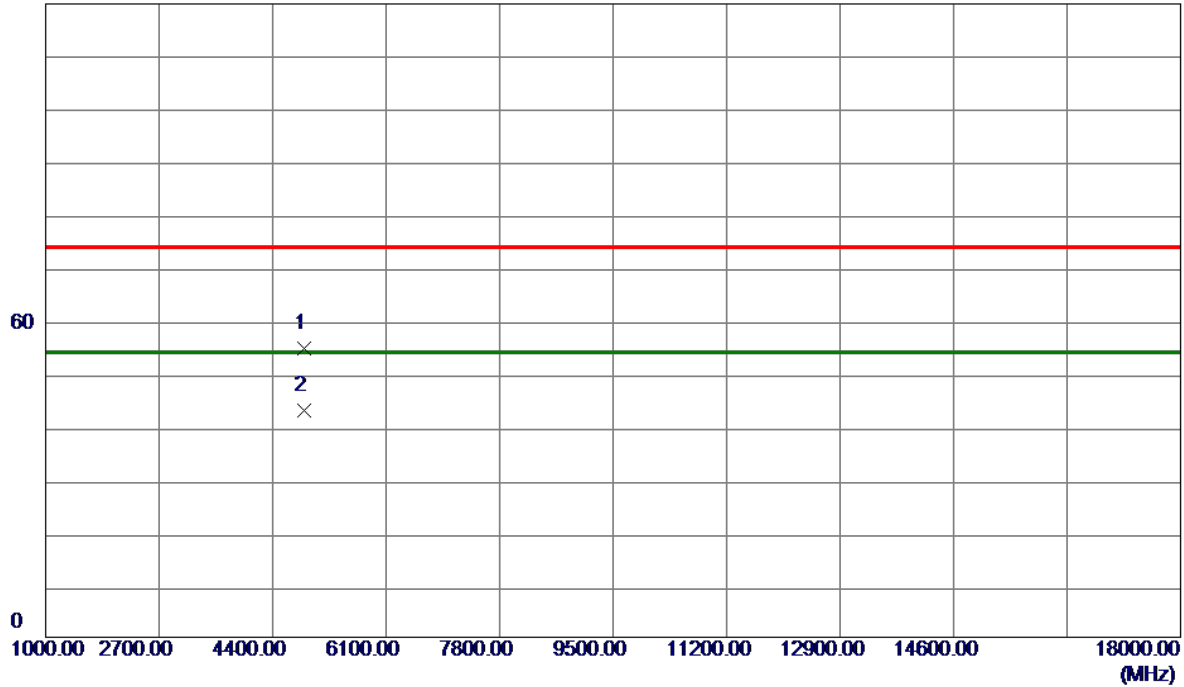


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	47.34	1.87	49.21	74.00	-24.79	Peak	
2 *	4874.0000	36.47	1.87	38.34	54.00	-15.66	AVG	

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

Test Mode	N(HT20) Mode	Polarization	Horizontal
Test Frequency	2437 MHz	Test Date	2025/2/17

120 dBuV/m



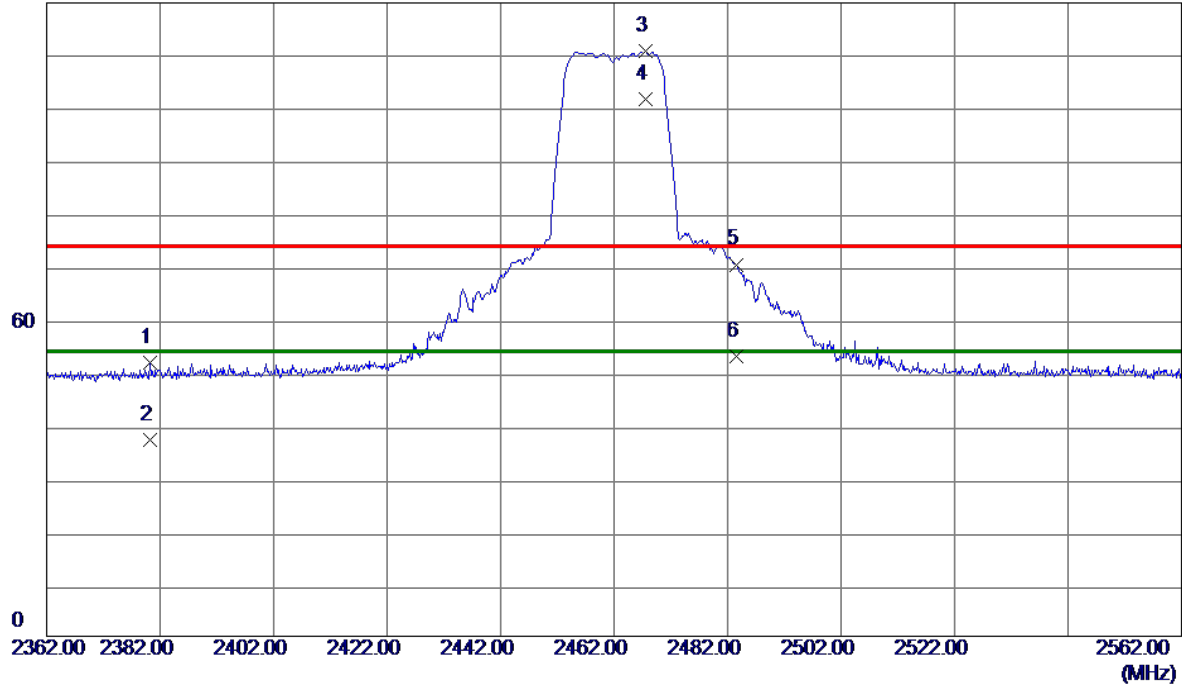
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4876.0000	52.75	1.88	54.63	74.00	-19.37	Peak	
2 *	4876.0000	41.09	1.88	42.97	54.00	-11.03	AVG	

REMARKS:

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

Test Mode	N(HT20) Mode	Polarization	Vertical
Test Frequency	2462 MHz	Test Date	2025/2/17

120 dBuV/m

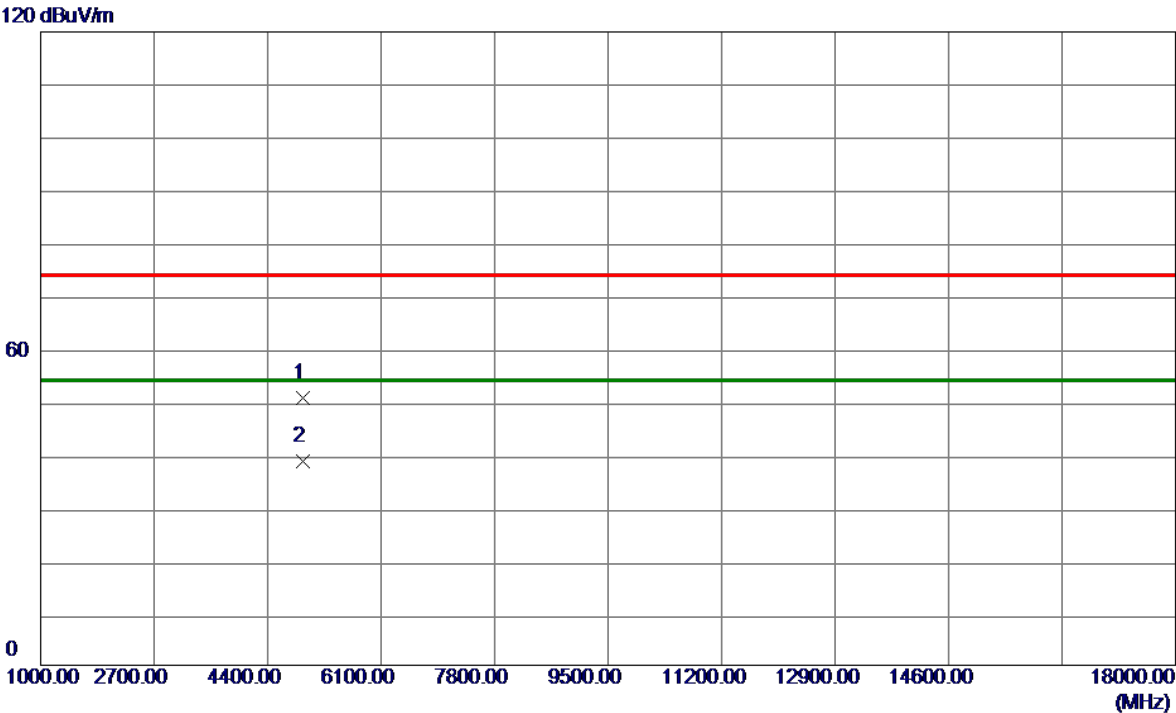


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2380.2000	46.55	5.22	51.77	74.00	-22.23	Peak	
2	2380.2000	32.01	5.22	37.23	54.00	-16.77	AVG	
3	2467.6000	105.39	5.38	110.77	74.00	36.77	Peak	No Limit
4 *	2467.6000	96.38	5.38	101.76	54.00	47.76	AVG	No Limit
5	2483.6000	65.03	5.41	70.44	74.00	-3.56	Peak	
6	2483.6000	47.74	5.41	53.15	54.00	-0.85	AVG	

REMARKS:

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

Test Mode	N(HT20) Mode	Polarization	Vertical
Test Frequency	2462 MHz	Test Date	2025/2/17

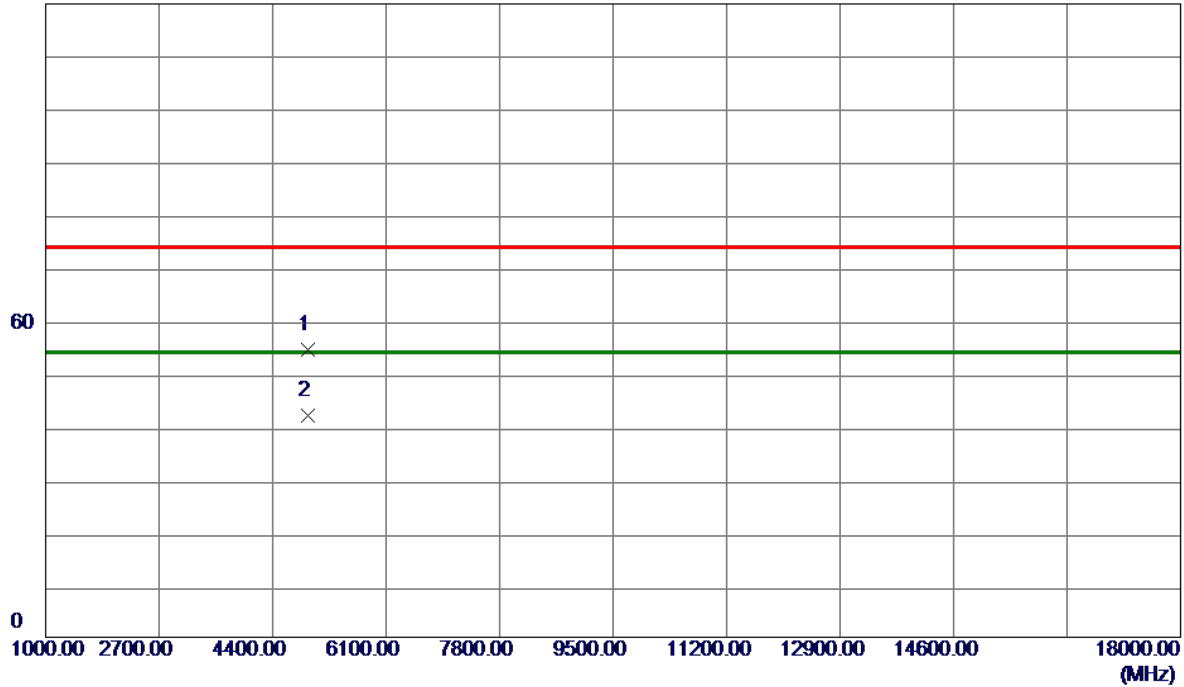


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4927.0000	48.80	1.96	50.76	74.00	-23.24	Peak	
2 *	4927.0000	36.63	1.96	38.59	54.00	-15.41	AVG	

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

Test Mode	N(HT20) Mode	Polarization	Horizontal
Test Frequency	2462 MHz	Test Date	2025/2/17

120 dBuV/m



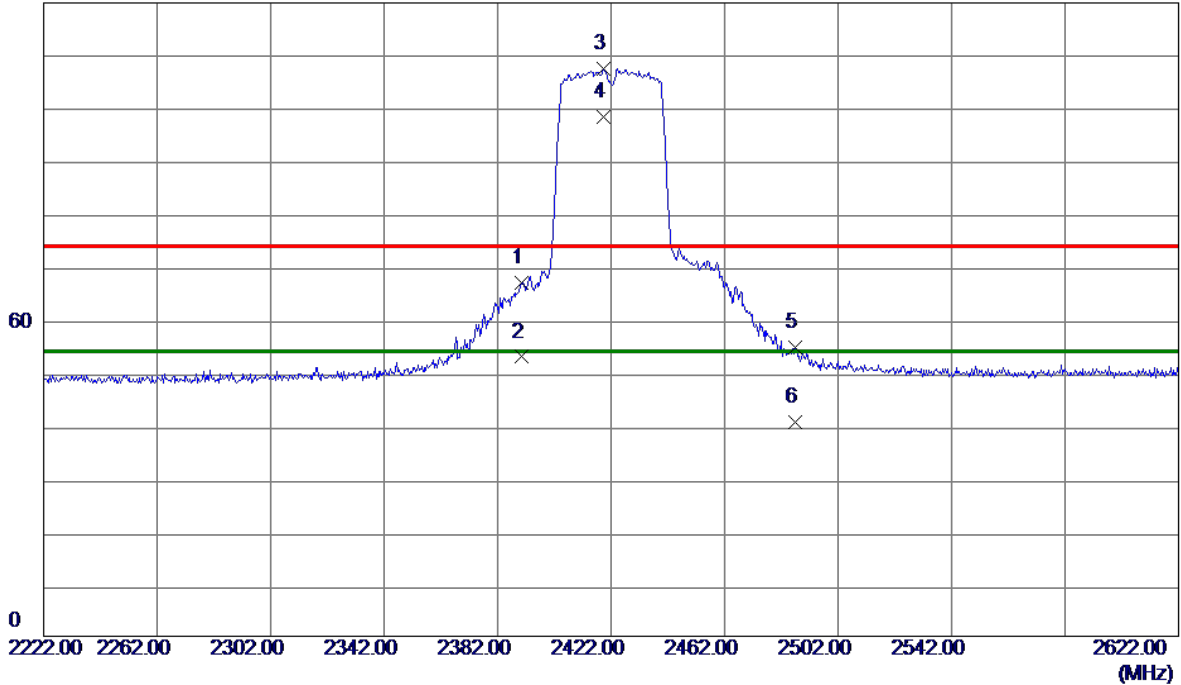
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4927.0000	52.50	1.96	54.46	74.00	-19.54	Peak	
2 *	4927.0000	40.11	1.96	42.07	54.00	-11.93	AVG	

REMARKS:

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

Test Mode	N(HT40) Mode	Polarization	Vertical
Test Frequency	2422 MHz	Test Date	2025/2/17

120 dBuV/m



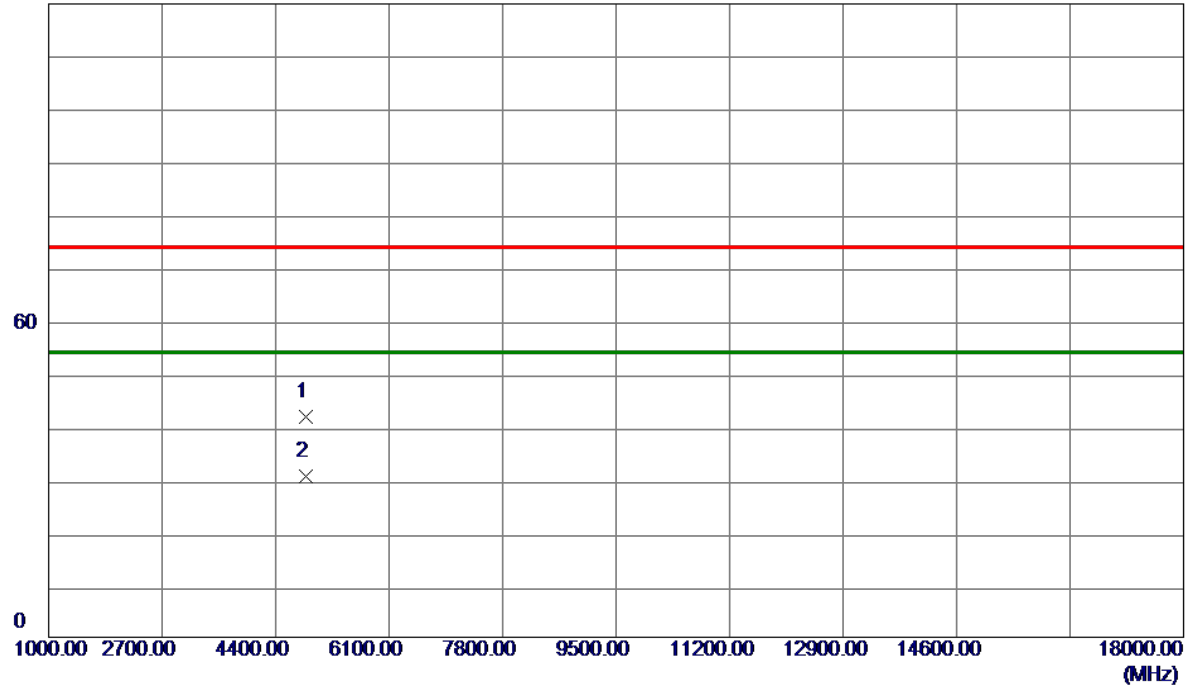
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.4000	61.68	5.24	66.92	74.00	-7.08	Peak	
2	2390.4000	47.68	5.24	52.92	54.00	-1.08	AVG	
3	2419.2000	102.16	5.29	107.45	74.00	33.45	Peak	No Limit
4 *	2419.2000	93.20	5.29	98.49	54.00	44.49	AVG	No Limit
5	2486.8000	49.39	5.42	54.81	74.00	-19.19	Peak	
6	2486.8000	35.05	5.42	40.47	54.00	-13.53	AVG	

REMARKS:

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

Test Mode	N(HT40) Mode	Polarization	Vertical
Test Frequency	2422 MHz	Test Date	2025/2/18

120 dBuV/m



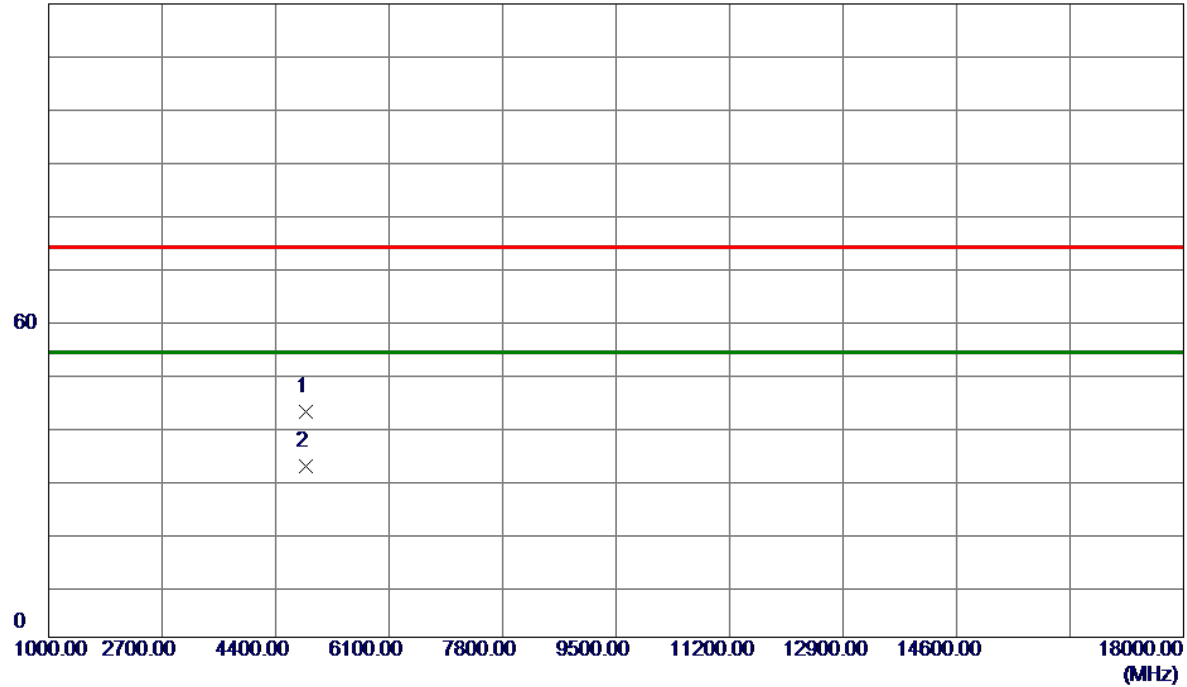
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.0000	39.96	1.82	41.78	74.00	-32.22	Peak	
2 *	4844.0000	28.63	1.82	30.45	54.00	-23.55	AVG	

REMARKS:

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

Test Mode	N(HT40) Mode	Polarization	Horizontal
Test Frequency	2422 MHz	Test Date	2025/2/18

120 dBuV/m



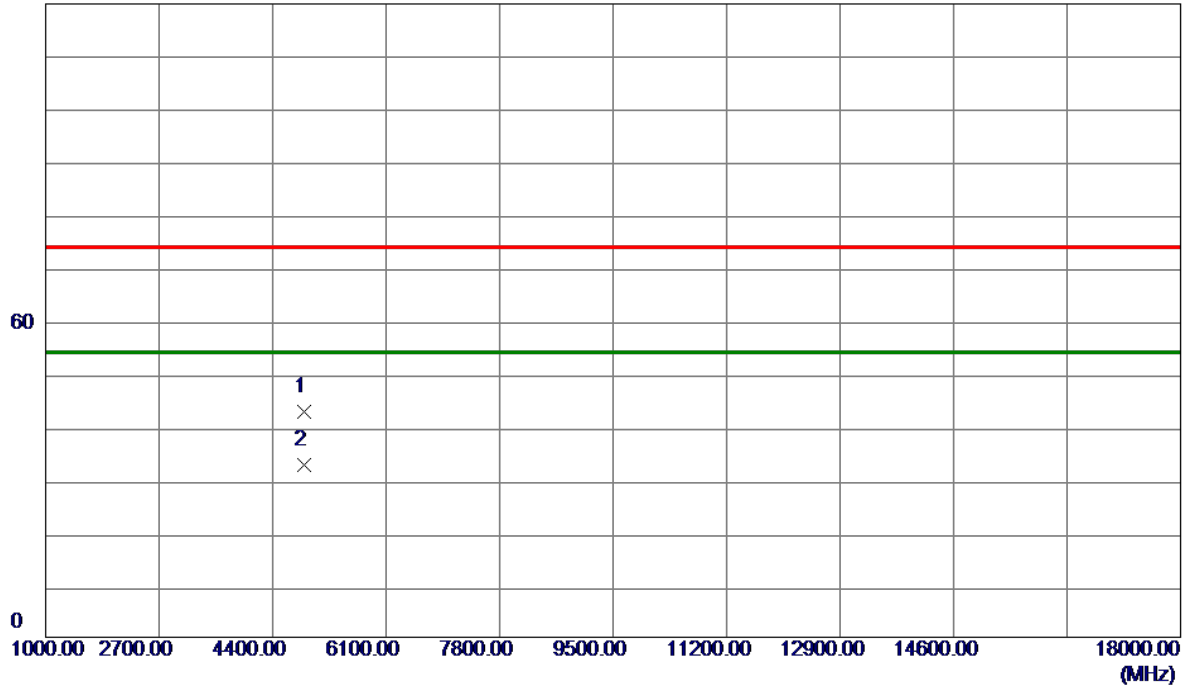
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.0000	40.85	1.82	42.67	74.00	-31.33	Peak	
2 *	4844.0000	30.65	1.82	32.47	54.00	-21.53	AVG	

REMARKS:

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

Test Mode	N(HT40) Mode	Polarization	Vertical
Test Frequency	2437 MHz	Test Date	2025/2/18

120 dBuV/m



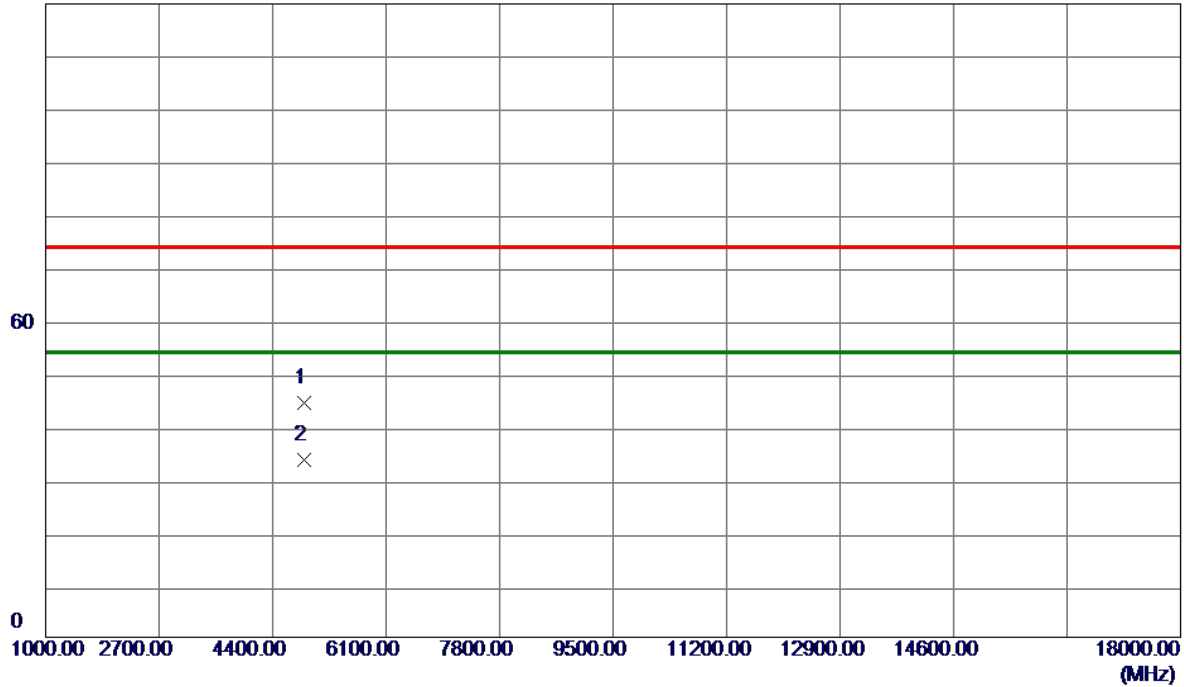
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	40.96	1.87	42.83	74.00	-31.17	Peak	
2 *	4874.0000	30.87	1.87	32.74	54.00	-21.26	AVG	

REMARKS:

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

Test Mode	N(HT40) Mode	Polarization	Horizontal
Test Frequency	2437 MHz	Test Date	2025/2/18

120 dBuV/m



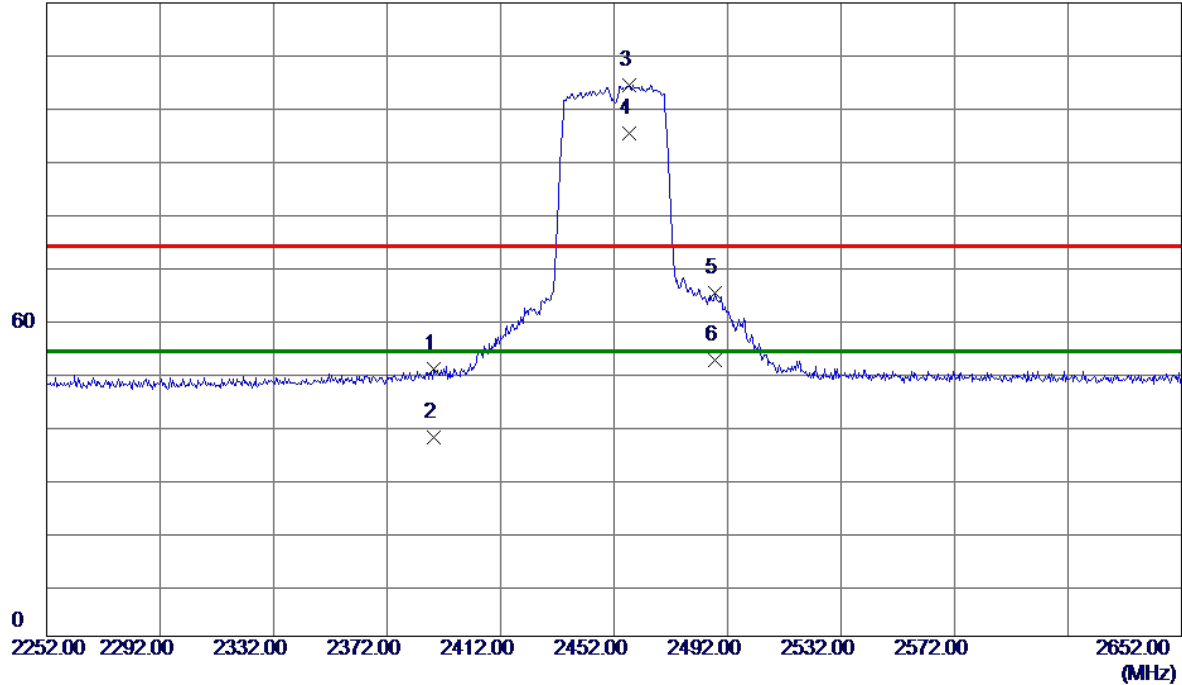
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	42.49	1.87	44.36	74.00	-29.64	Peak	
2 *	4874.0000	31.67	1.87	33.54	54.00	-20.46	AVG	

REMARKS:

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

Test Mode	N(HT40) Mode	Polarization	Vertical
Test Frequency	2452 MHz	Test Date	2025/2/17

120 dBuV/m



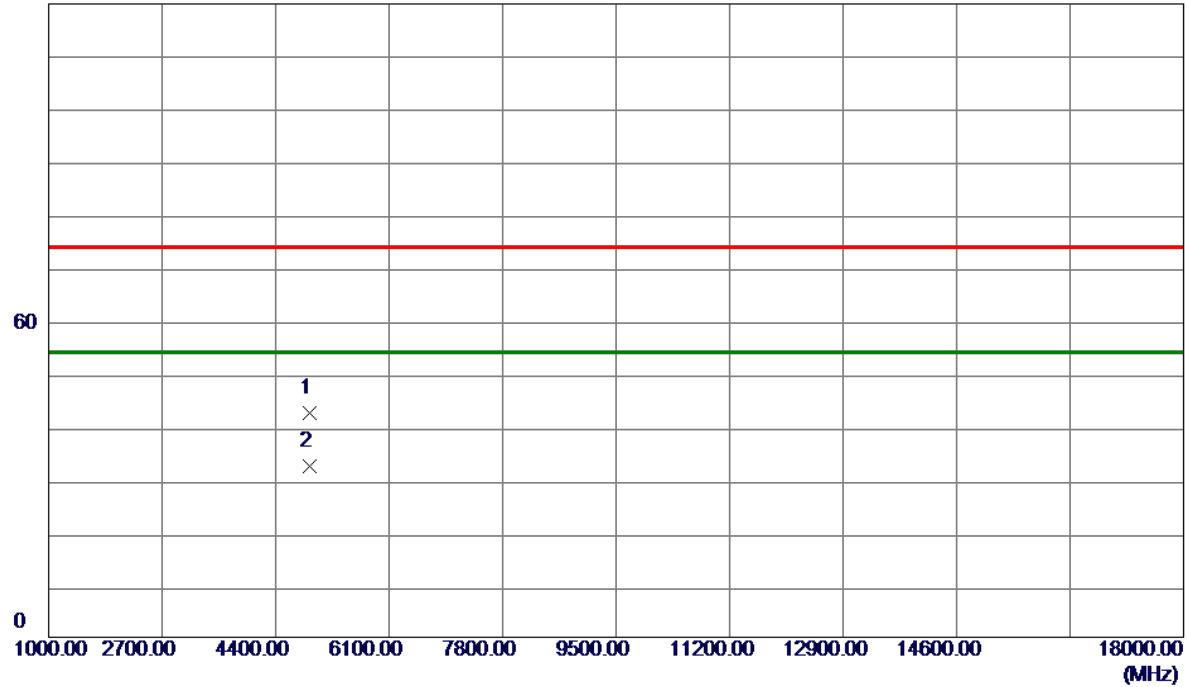
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.4000	45.35	5.24	50.59	74.00	-23.41	Peak	
2	2388.4000	32.51	5.24	37.75	54.00	-16.25	AVG	
3	2457.2000	99.02	5.36	104.38	74.00	30.38	Peak	No Limit
4 *	2457.2000	89.94	5.36	95.30	54.00	41.30	AVG	No Limit
5	2487.6000	59.67	5.42	65.09	74.00	-8.91	Peak	
6	2487.6000	46.97	5.42	52.39	54.00	-1.61	AVG	

REMARKS:

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

Test Mode	N(HT40) Mode	Polarization	Vertical
Test Frequency	2452 MHz	Test Date	2025/2/18

120 dBuV/m



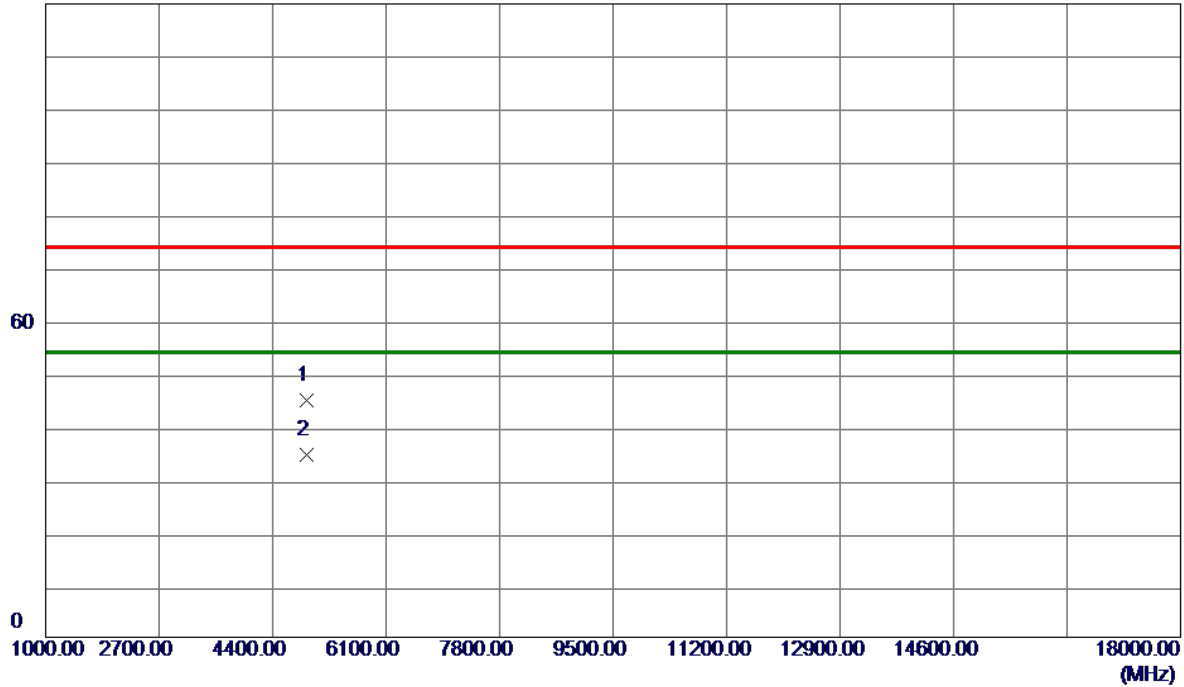
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.0000	40.50	1.92	42.42	74.00	-31.58	Peak	
2 *	4904.0000	30.56	1.92	32.48	54.00	-21.52	AVG	

REMARKS:

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

Test Mode	N(HT40) Mode	Polarization	Horizontal
Test Frequency	2452 MHz	Test Date	2025/2/18

120 dBuV/m



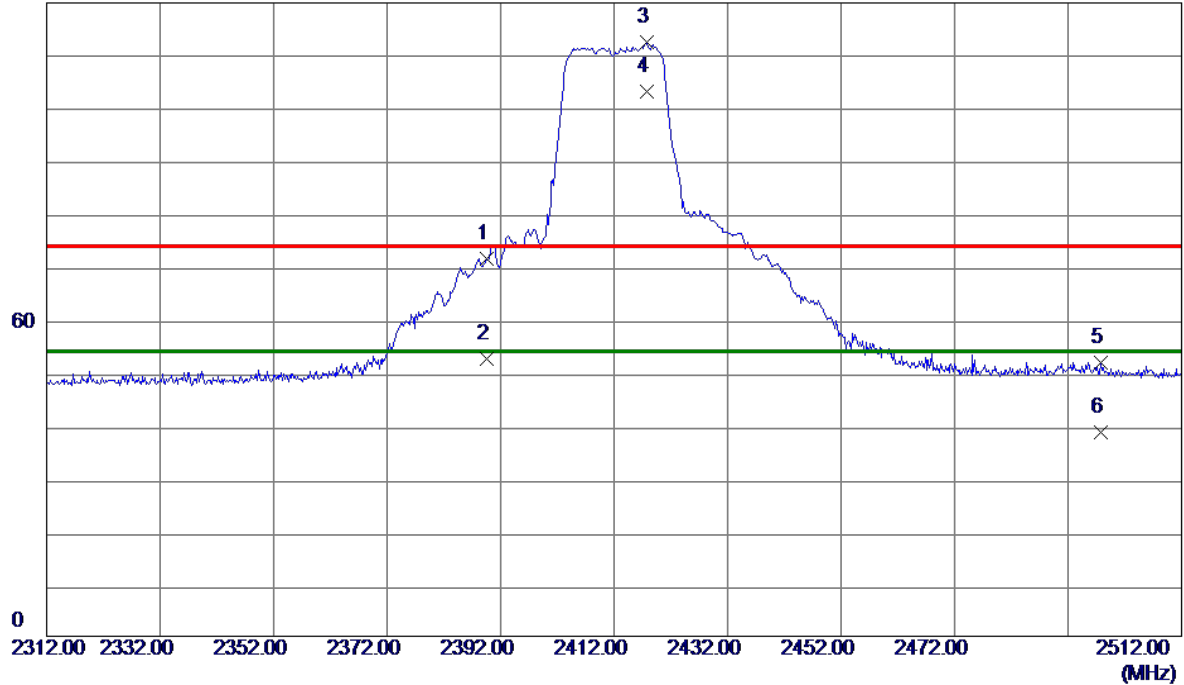
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.0000	43.05	1.92	44.97	74.00	-29.03	Peak	
2 *	4904.0000	32.62	1.92	34.54	54.00	-19.46	AVG	

REMARKS:

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

Test Mode	AX(HE20) Mode	Polarization	Vertical
Test Frequency	2412 MHz	Test Date	2025/2/17

120 dBuV/m



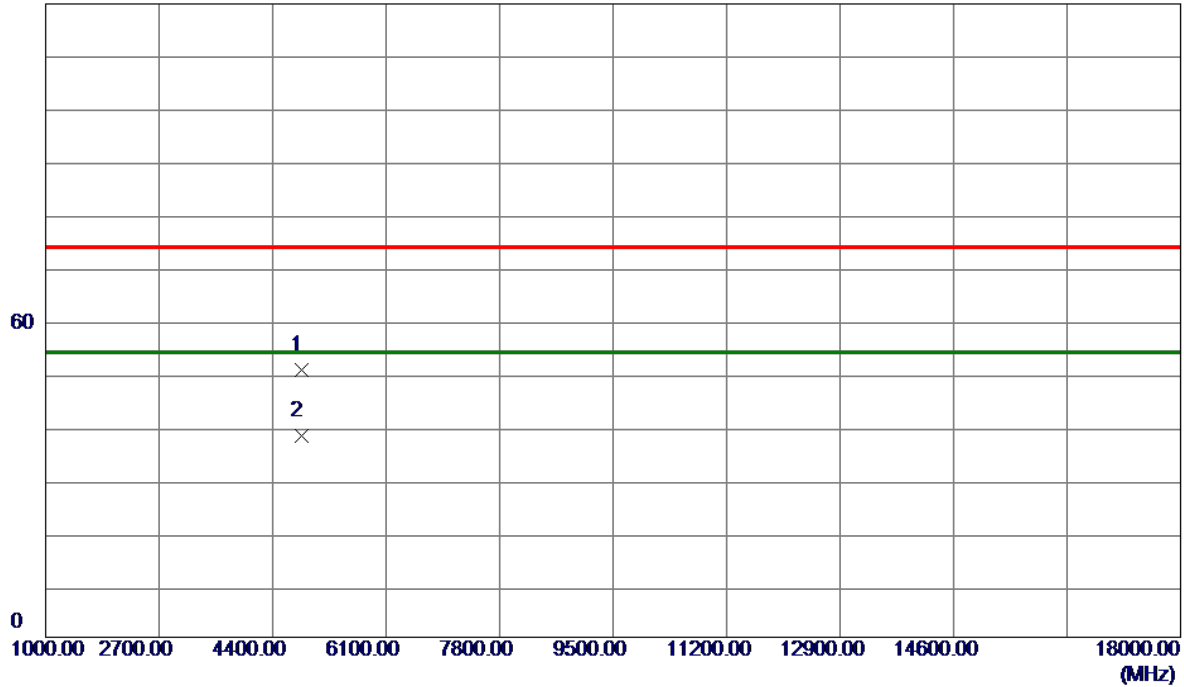
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.6000	66.32	5.24	71.56	74.00	-2.44	Peak	
2	2389.6000	47.31	5.24	52.55	54.00	-1.45	AVG	
3	2417.8000	107.15	5.29	112.44	74.00	38.44	Peak	No Limit
4 *	2417.8000	97.93	5.29	103.22	54.00	49.22	AVG	No Limit
5	2497.8000	46.48	5.44	51.92	74.00	-22.08	Peak	
6	2497.8000	33.18	5.44	38.62	54.00	-15.38	AVG	

REMARKS:

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

Test Mode	AX(HE20) Mode	Polarization	Vertical
Test Frequency	2412 MHz	Test Date	2025/2/18

120 dBuV/m

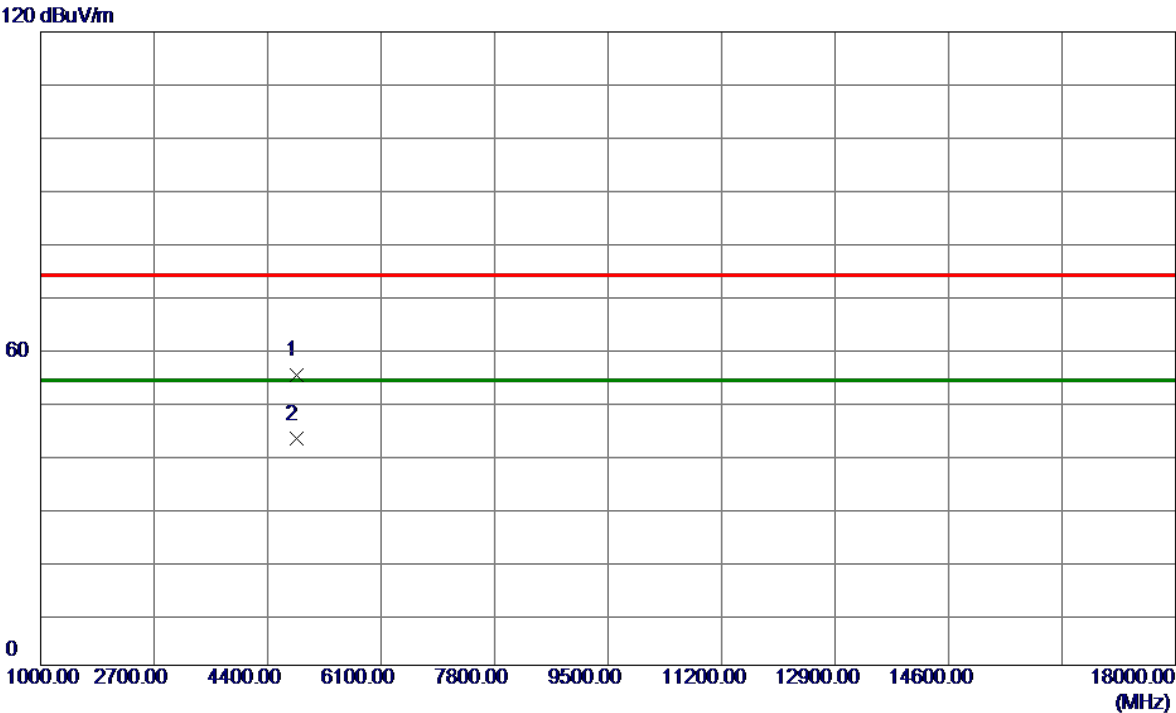


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4825.0000	48.75	1.79	50.54	74.00	-23.46	Peak	
2 *	4825.0000	36.42	1.79	38.21	54.00	-15.79	AVG	

REMARKS:

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

Test Mode	AX(HE20) Mode	Polarization	Horizontal
Test Frequency	2412 MHz	Test Date	2025/2/18

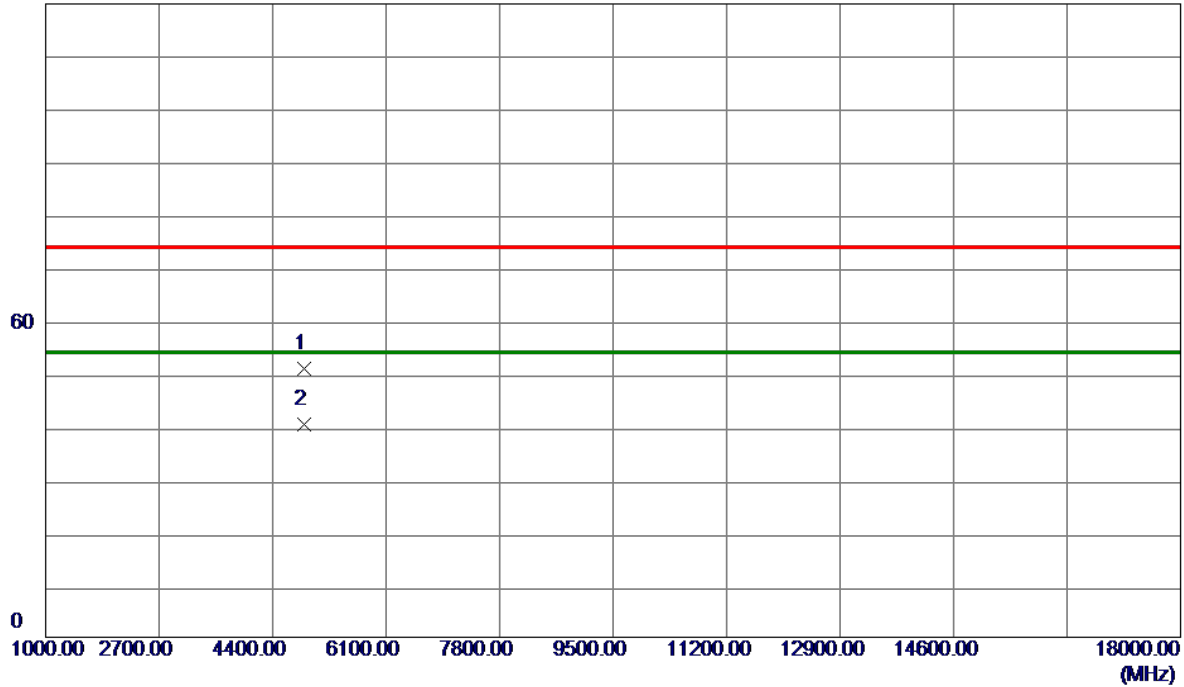


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4825.0000	53.16	1.79	54.95	74.00	-19.05	Peak	
2 *	4825.0000	41.05	1.79	42.84	54.00	-11.16	AVG	

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

Test Mode	AX(HE20) Mode	Polarization	Vertical
Test Frequency	2437 MHz	Test Date	2025/2/18

120 dBuV/m



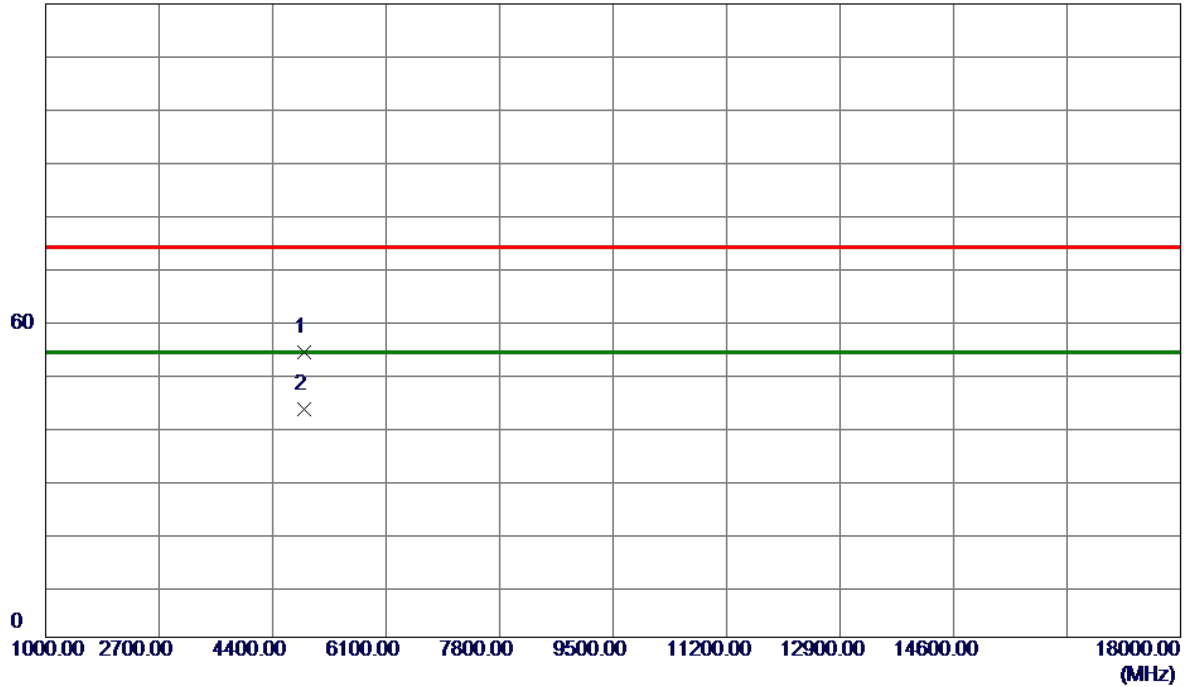
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4876.0000	49.10	1.88	50.98	74.00	-23.02	Peak	
2 *	4876.0000	38.35	1.88	40.23	54.00	-13.77	AVG	

REMARKS:

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

Test Mode	AX(HE20) Mode	Polarization	Horizontal
Test Frequency	2437 MHz	Test Date	2025/2/18

120 dBuV/m



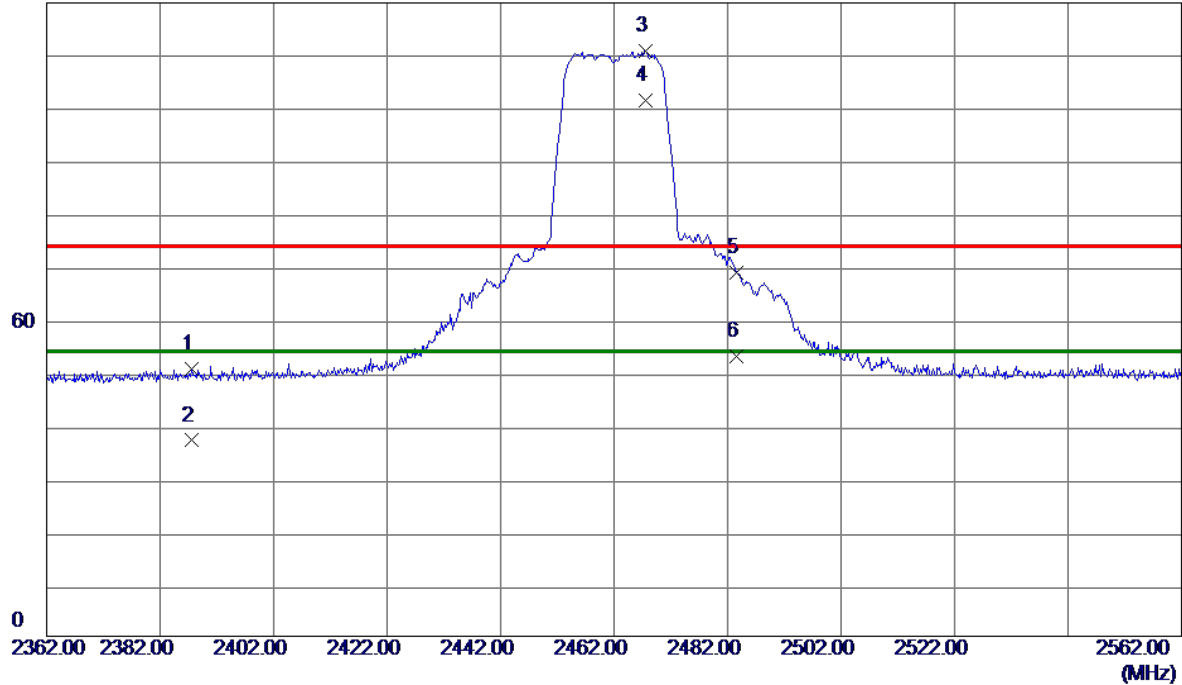
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4876.0000	52.10	1.88	53.98	74.00	-20.02	Peak	
2 *	4876.0000	41.27	1.88	43.15	54.00	-10.85	AVG	

REMARKS:

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

Test Mode	AX(HE20) Mode	Polarization	Vertical
Test Frequency	2462 MHz	Test Date	2025/2/17

120 dBuV/m



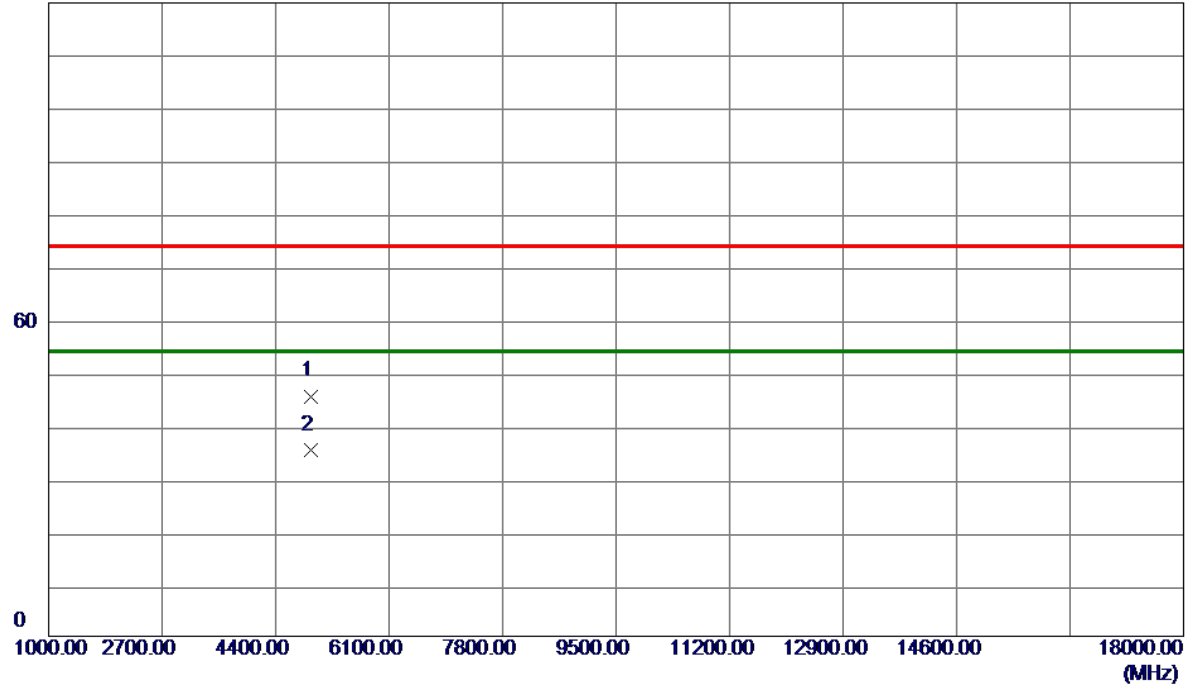
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.6000	45.39	5.24	50.63	74.00	-23.37	Peak	
2	2387.6000	31.84	5.24	37.08	54.00	-16.92	AVG	
3	2467.6000	105.42	5.38	110.80	74.00	36.80	Peak	No Limit
4 *	2467.6000	96.08	5.38	101.46	54.00	47.46	AVG	No Limit
5	2483.6000	63.39	5.41	68.80	74.00	-5.20	Peak	
6	2483.6000	47.60	5.41	53.01	54.00	-0.99	AVG	

REMARKS:

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

Test Mode	AX(HE20) Mode	Polarization	Vertical
Test Frequency	2462 MHz	Test Date	2025/2/18

120 dBuV/m



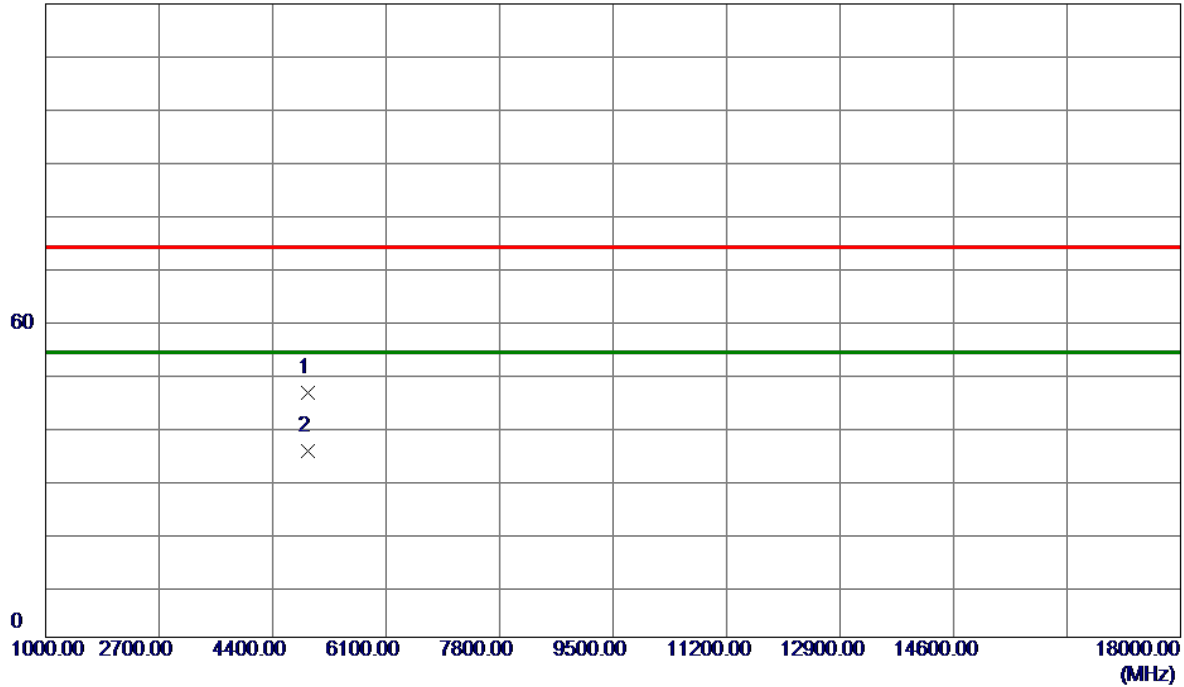
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.0000	43.52	1.96	45.48	74.00	-28.52	Peak	
2 *	4924.0000	33.26	1.96	35.22	54.00	-18.78	AVG	

REMARKS:

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

Test Mode	AX(HE20) Mode	Polarization	Horizontal
Test Frequency	2462 MHz	Test Date	2025/2/18

120 dBuV/m



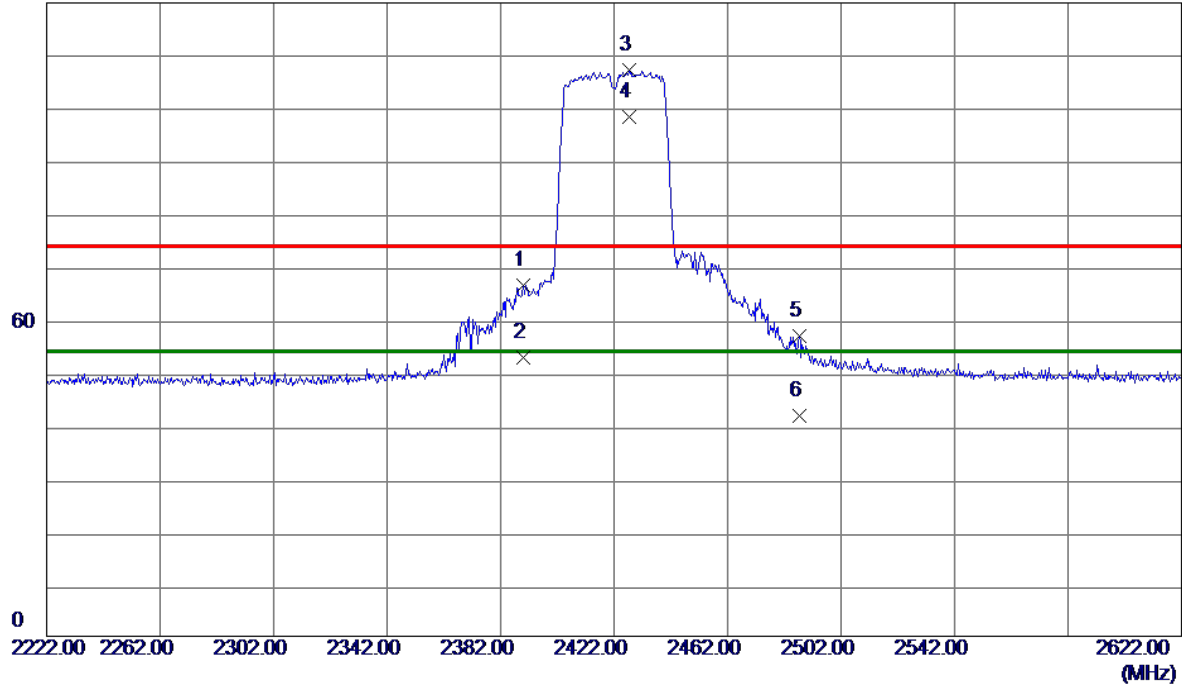
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	44.31	1.96	46.27	74.00	-27.73	Peak	
2 *	4924.0000	33.23	1.96	35.19	54.00	-18.81	AVG	

REMARKS:

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

Test Mode	AX(HE40) Mode	Polarization	Vertical
Test Frequency	2422 MHz	Test Date	2025/2/17

120 dBuV/m



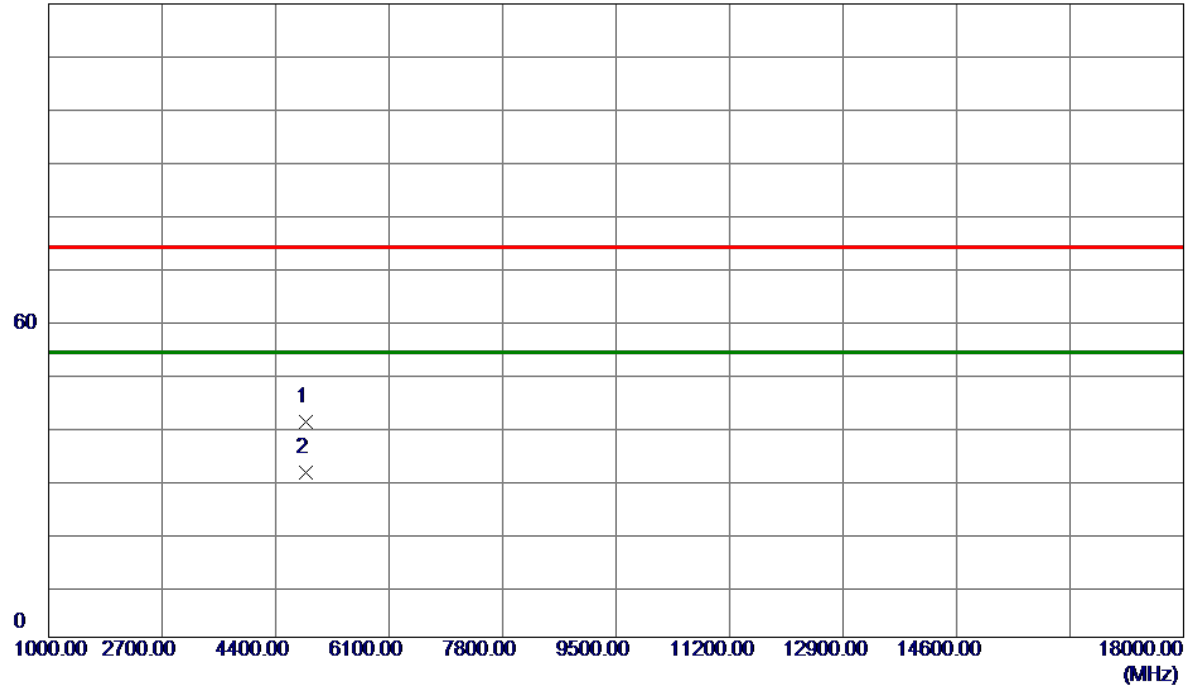
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	61.17	5.24	66.41	74.00	-7.59	Peak	
2	2390.0000	47.46	5.24	52.70	54.00	-1.30	AVG	
3	2427.2000	101.91	5.31	107.22	74.00	33.22	Peak	No Limit
4 *	2427.2000	93.20	5.31	98.51	54.00	44.51	AVG	No Limit
5	2487.2000	51.50	5.42	56.92	74.00	-17.08	Peak	
6	2487.2000	36.43	5.42	41.85	54.00	-12.15	AVG	

REMARKS:

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

Test Mode	AX(HE40) Mode	Polarization	Vertical
Test Frequency	2422 MHz	Test Date	2025/2/18

120 dBuV/m



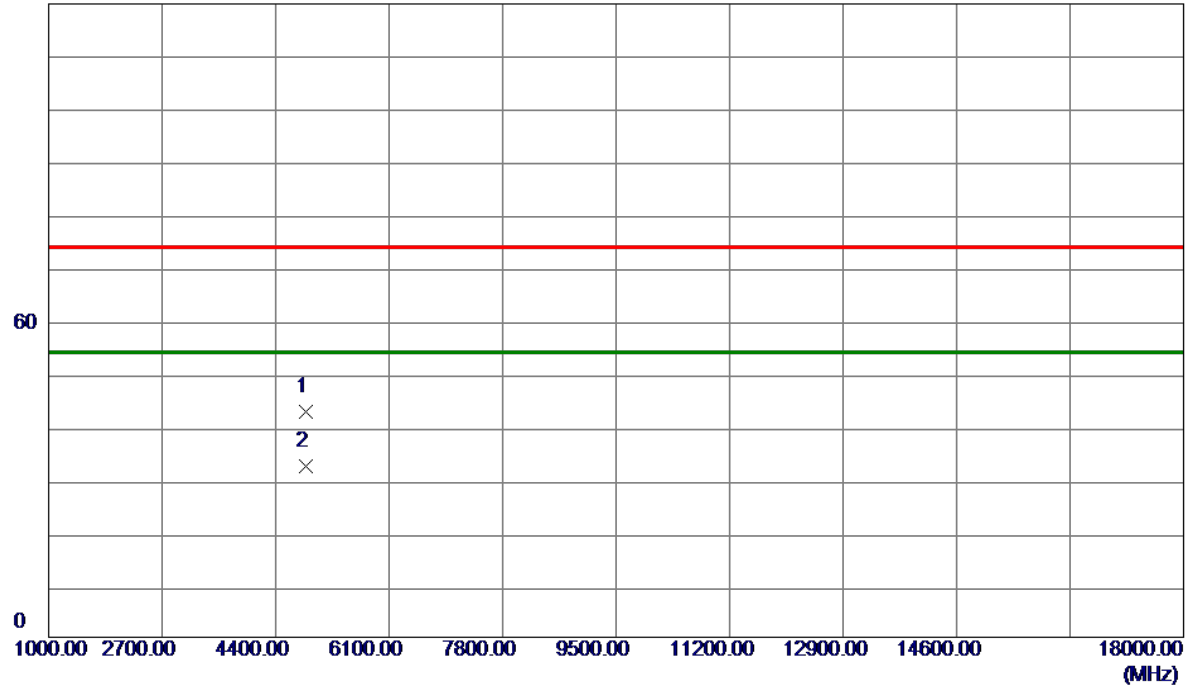
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.0000	39.05	1.82	40.87	74.00	-33.13	Peak	
2 *	4844.0000	29.33	1.82	31.15	54.00	-22.85	AVG	

REMARKS:

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

Test Mode	AX(HE40) Mode	Polarization	Horizontal
Test Frequency	2422 MHz	Test Date	2025/2/18

120 dBuV/m



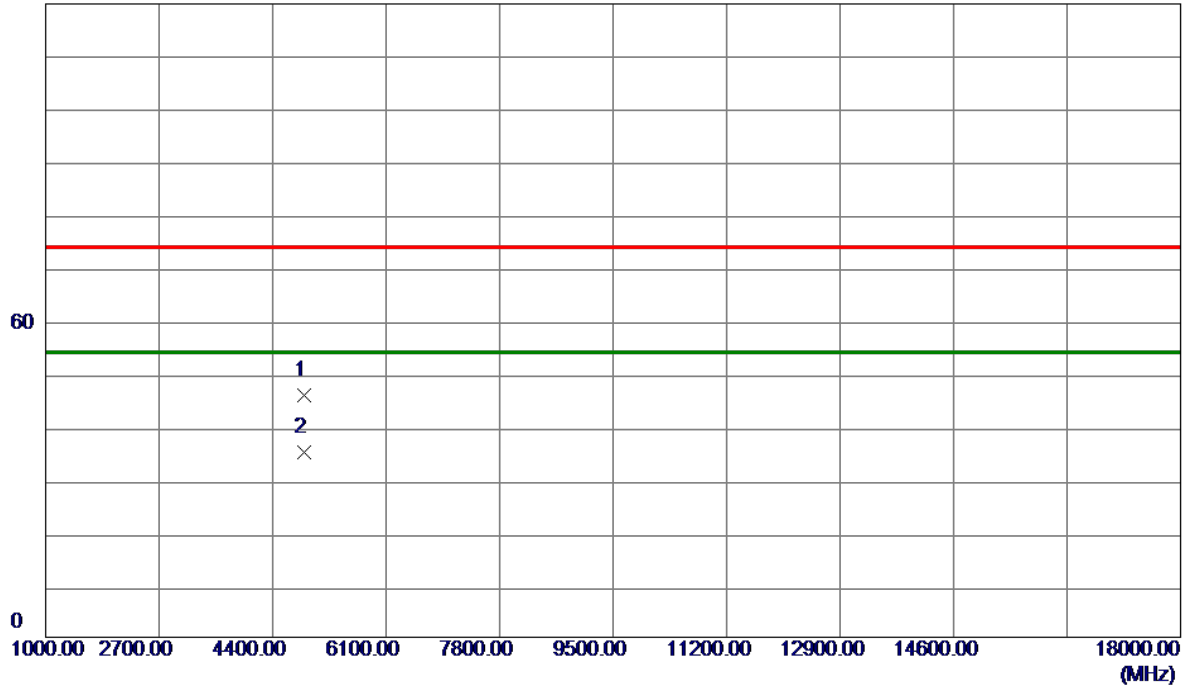
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.0000	40.94	1.82	42.76	74.00	-31.24	Peak	
2 *	4844.0000	30.61	1.82	32.43	54.00	-21.57	AVG	

REMARKS:

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

Test Mode	AX(HE40) Mode	Polarization	Vertical
Test Frequency	2437 MHz	Test Date	2025/2/18

120 dBuV/m



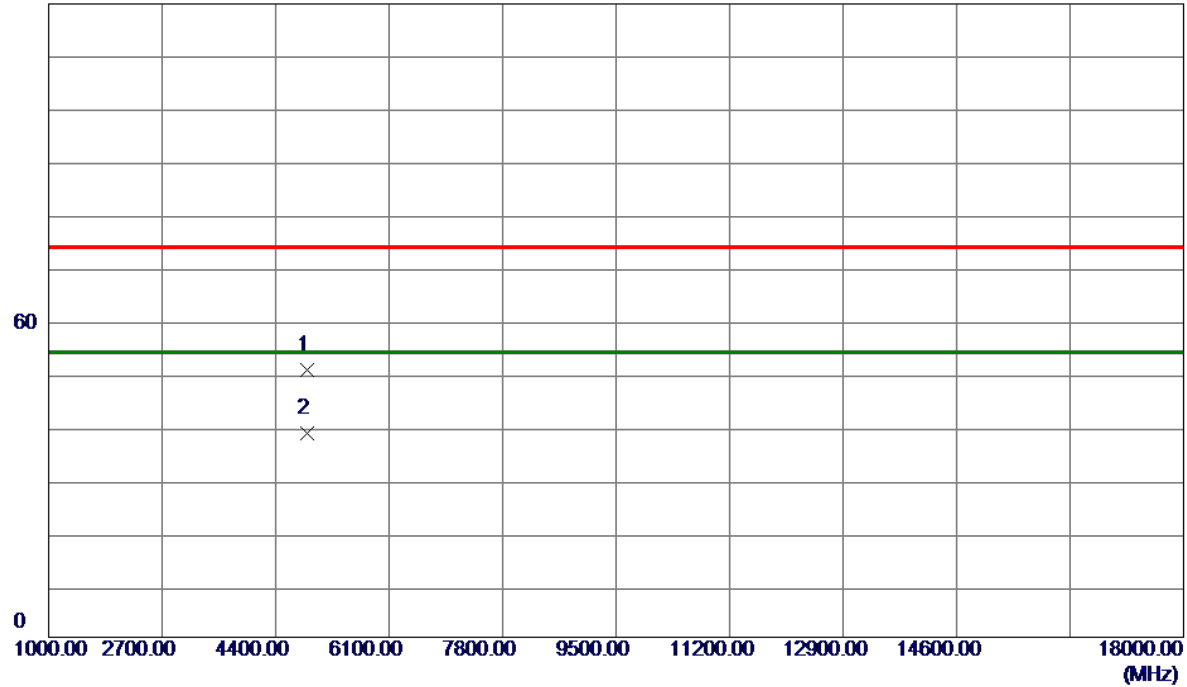
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	43.95	1.87	45.82	74.00	-28.18	Peak	
2 *	4874.0000	33.27	1.87	35.14	54.00	-18.86	AVG	

REMARKS:

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

Test Mode	AX(HE40) Mode	Polarization	Horizontal
Test Frequency	2437 MHz	Test Date	2025/2/18

120 dBuV/m



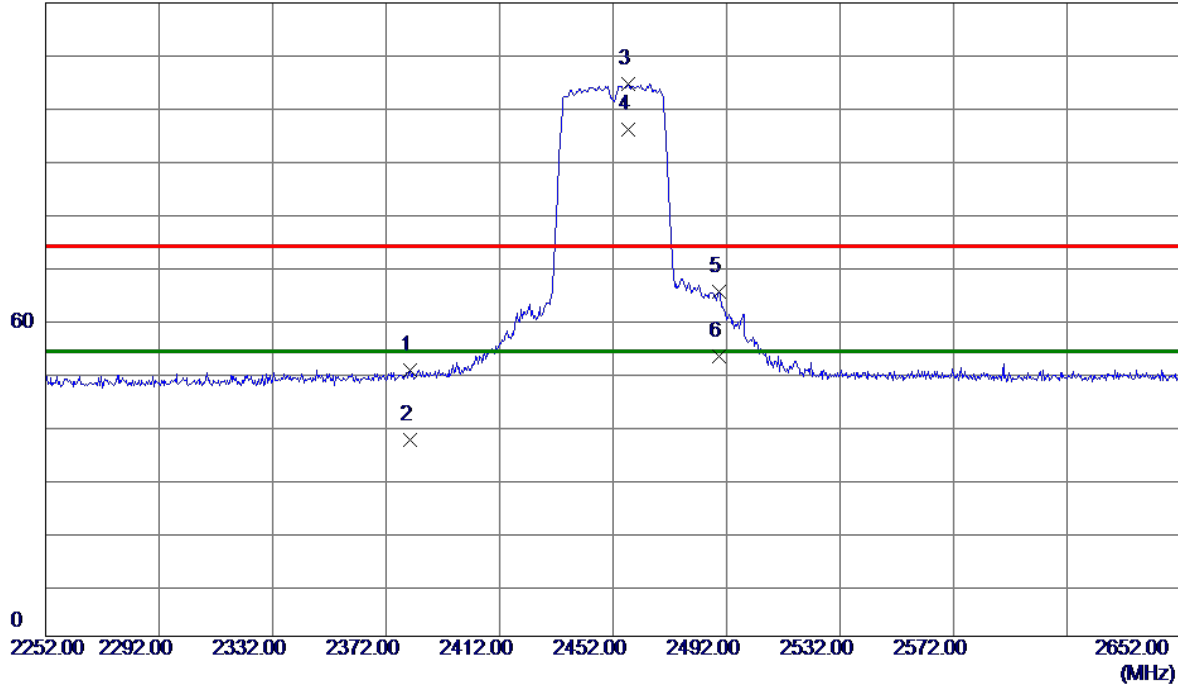
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4876.0000	48.82	1.88	50.70	74.00	-23.30	Peak	
2 *	4876.0000	36.68	1.88	38.56	54.00	-15.44	AVG	

REMARKS:

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

Test Mode	AX(HE40) Mode	Polarization	Vertical
Test Frequency	2452 MHz	Test Date	2025/2/17

120 dBuV/m



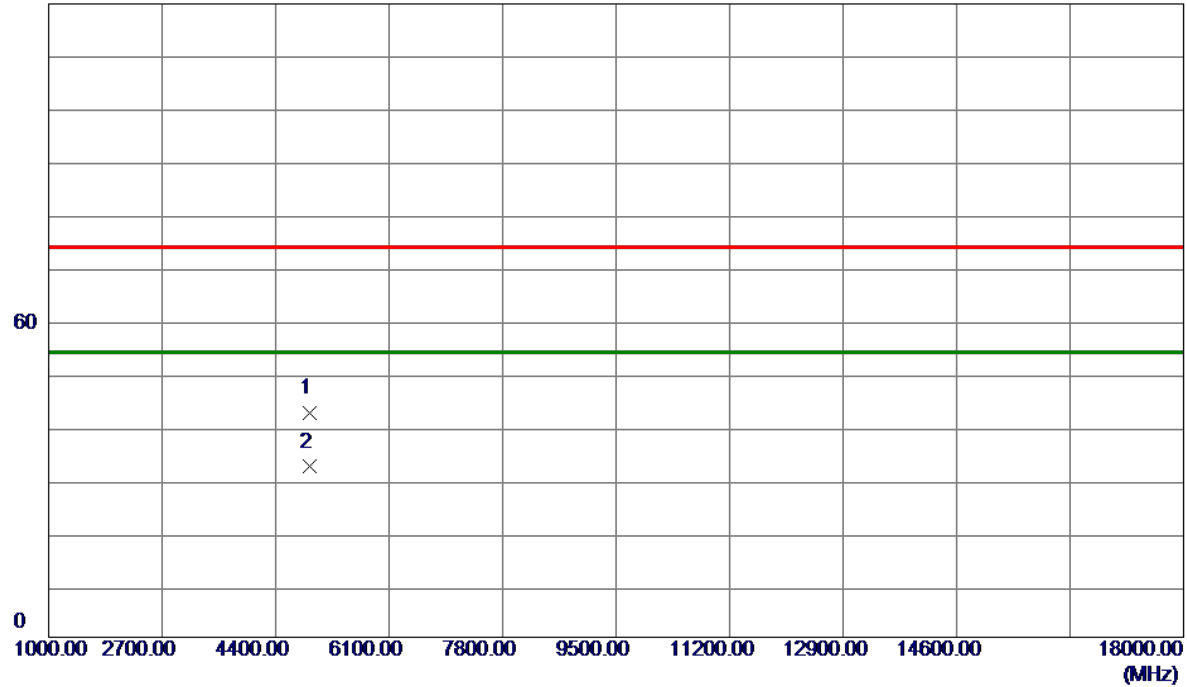
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2380.4000	45.11	5.22	50.33	74.00	-23.67	Peak	
2	2380.4000	32.08	5.22	37.30	54.00	-16.70	AVG	
3	2457.2000	99.19	5.36	104.55	74.00	30.55	Peak	No Limit
4 *	2457.2000	90.54	5.36	95.90	54.00	41.90	AVG	No Limit
5	2489.2000	59.97	5.42	65.39	74.00	-8.61	Peak	
6	2489.2000	47.69	5.42	53.11	54.00	-0.89	AVG	

REMARKS:

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

Test Mode	AX(HE40) Mode	Polarization	Vertical
Test Frequency	2452 MHz	Test Date	2025/2/18

120 dBuV/m



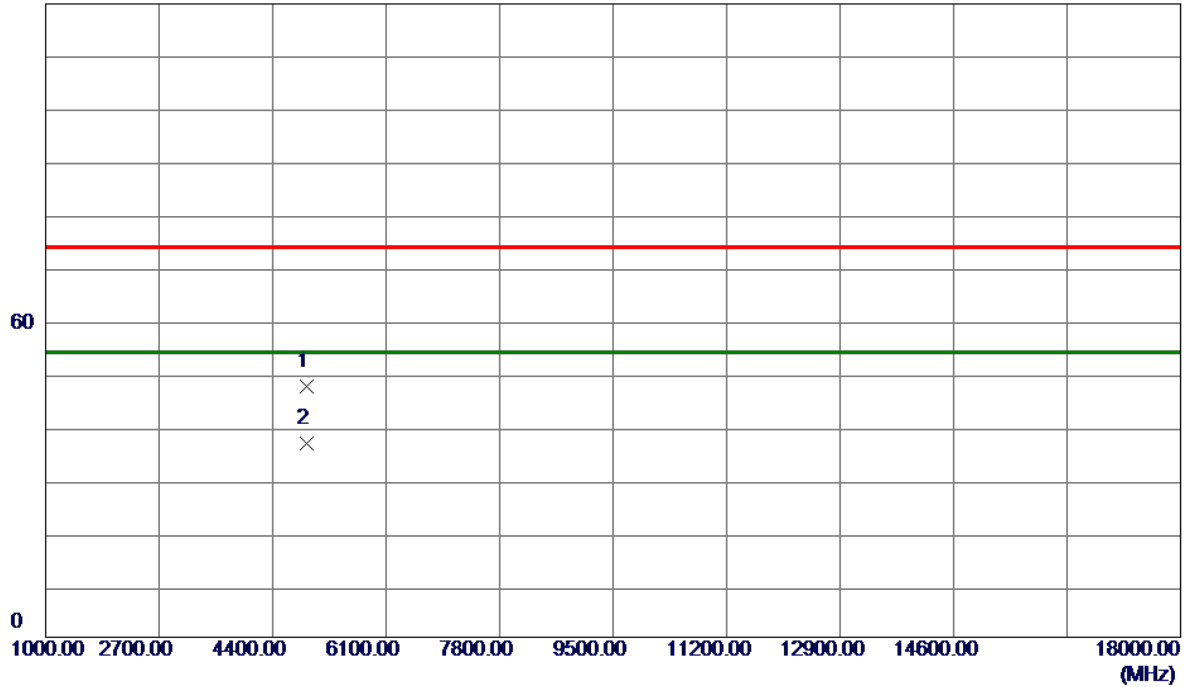
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.0000	40.53	1.92	42.45	74.00	-31.55	Peak	
2 *	4904.0000	30.36	1.92	32.28	54.00	-21.72	AVG	

REMARKS:

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

Test Mode	AX(HE40) Mode	Polarization	Horizontal
Test Frequency	2452 MHz	Test Date	2025/2/18

120 dBuV/m

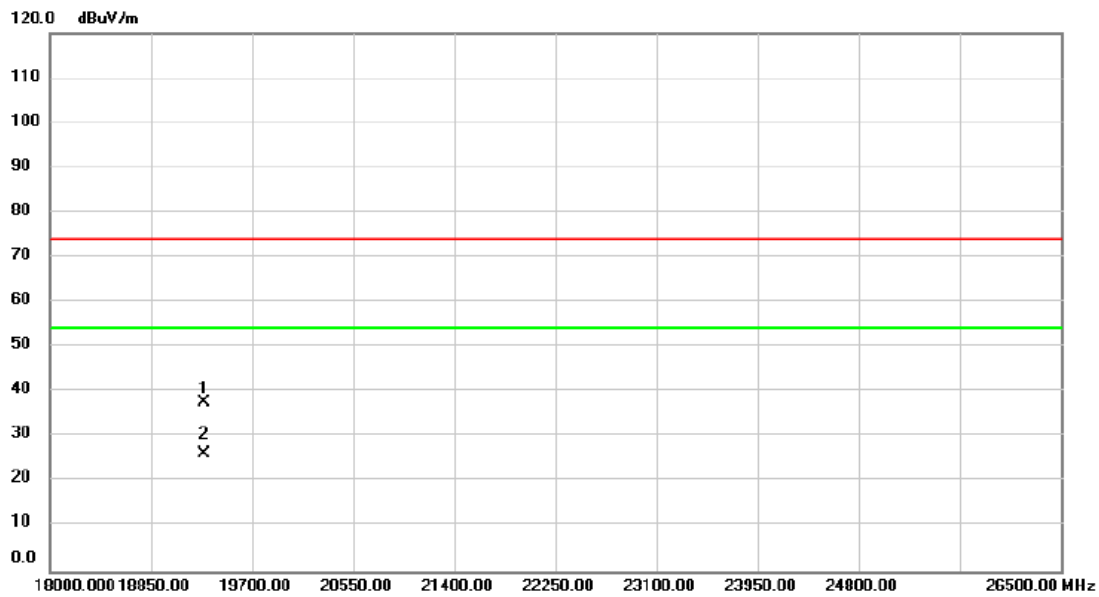


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.0000	45.52	1.92	47.44	74.00	-26.56	Peak	
2 *	4904.0000	34.70	1.92	36.62	54.00	-17.38	AVG	

REMARKS:

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

Test Mode	AX(HE40) Mode	Polarization	Vertical
Test Frequency	2437 MHz	Test Date	2025/2/18

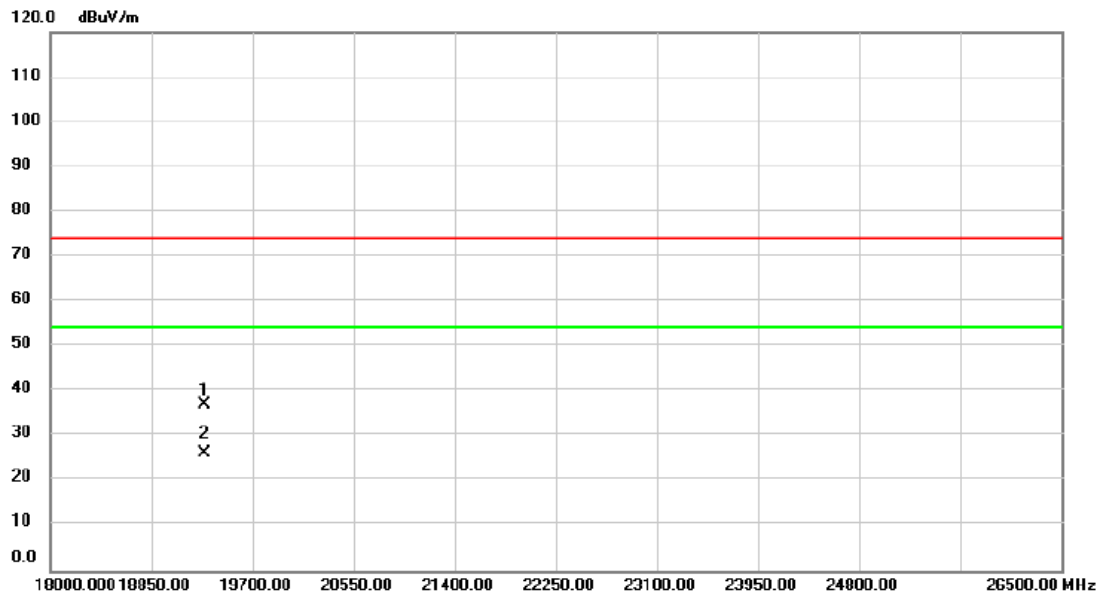


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		19296.00	47.79	-10.01	37.78	74.00	-36.22	peak	
2	*	19296.00	36.35	-10.01	26.34	54.00	-27.66	AVG	

REMARKS:

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

Test Mode	AX(HE40) Mode	Polarization	Horizontal
Test Frequency	2437 MHz	Test Date	2025/2/18



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		19296.00	47.09	-10.01	37.08	74.00	-36.92	peak	
2	*	19296.00	36.24	-10.01	26.23	54.00	-27.77	AVG	

REMARKS:

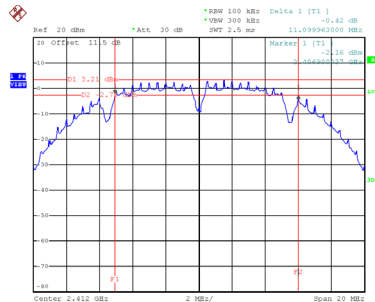
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - BANDWIDTH

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

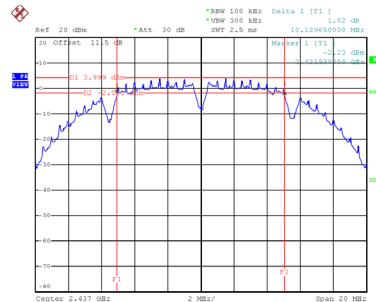
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	11.100	14.960	0.5	Complies
06	2437	10.130	14.960	0.5	Complies
11	2462	10.100	14.960	0.5	Complies

CH01



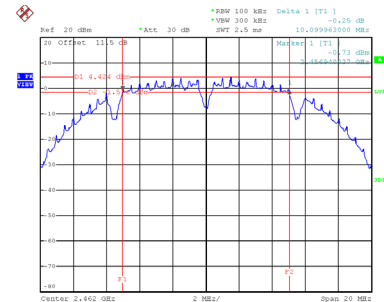
Date: 25.FEB.2025 14:04:06

CH06
6 dB Bandwidth



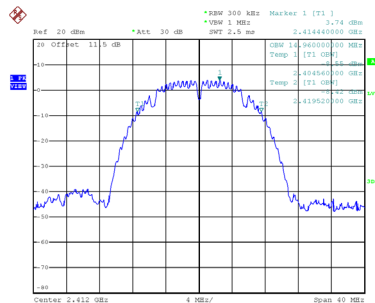
Date: 25.FEB.2025 14:14:16

CH11

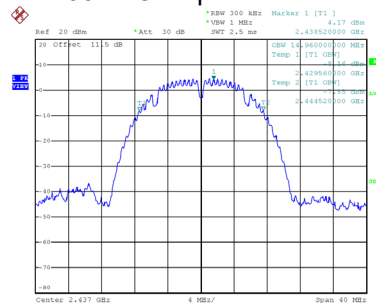


Date: 25.FEB.2025 14:16:19

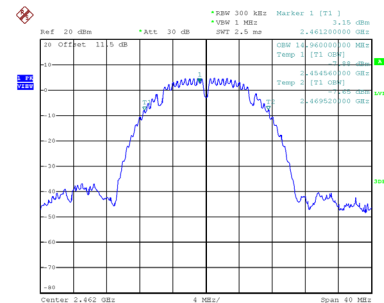
99 % Occupied Bandwidth



Date: 25.FEB.2025 14:04:15



Date: 25.FEB.2025 14:14:25

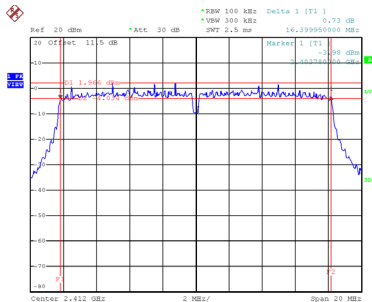


Date: 25.FEB.2025 14:16:28

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

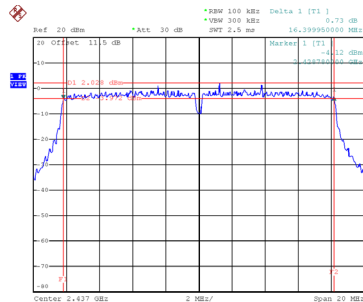
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.400	16.480	0.5	Complies
06	2437	16.400	16.560	0.5	Complies
11	2462	16.420	16.560	0.5	Complies

CH01



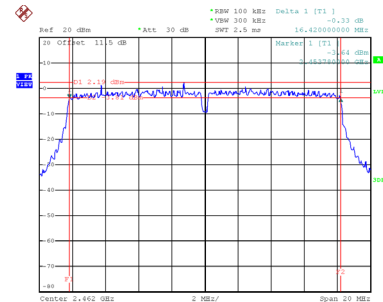
Date: 25.FEB.2025 14:21:17

CH06
6 dB Bandwidth



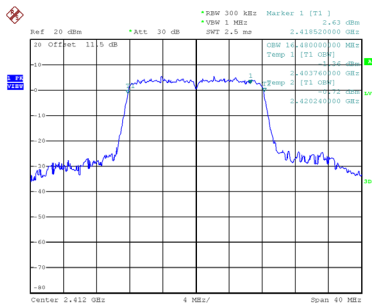
Date: 25.FEB.2025 14:24:21

CH11

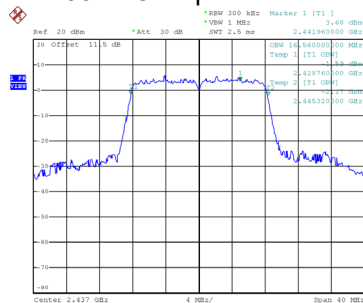


Date: 25.FEB.2025 14:26:16

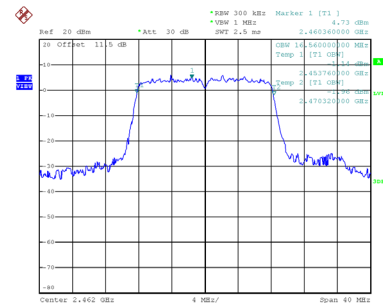
99 % Occupied Bandwidth



Date: 25.FEB.2025 14:21:26



Date: 25.FEB.2025 14:24:30

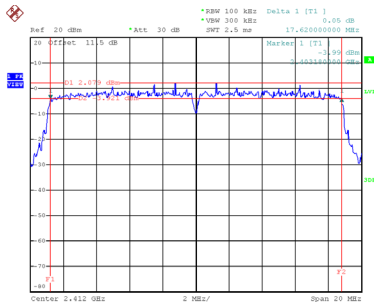


Date: 25.FEB.2025 14:26:25

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

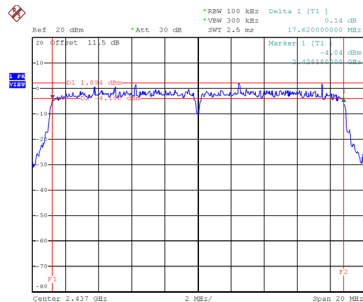
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.620	17.680	0.5	Complies
06	2437	17.620	17.680	0.5	Complies
11	2462	17.620	17.680	0.5	Complies

CH01



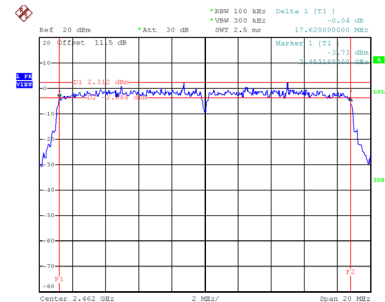
Date: 25.FEB.2025 14:30:51

CH06
6 dB Bandwidth



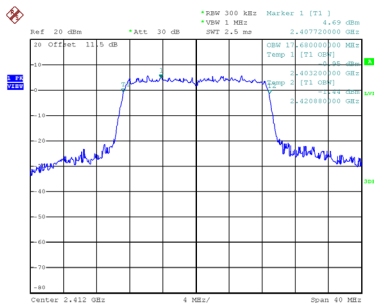
Date: 25.FEB.2025 14:33:08

CH11

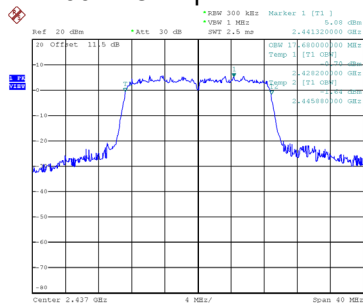


Date: 25.FEB.2025 14:34:40

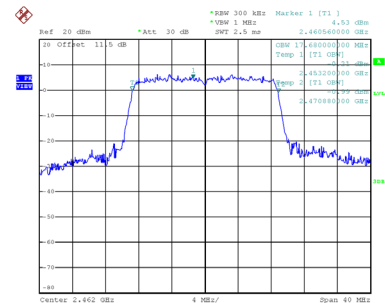
99 % Occupied Bandwidth



Date: 25.FEB.2025 14:30:59



Date: 25.FEB.2025 14:33:16

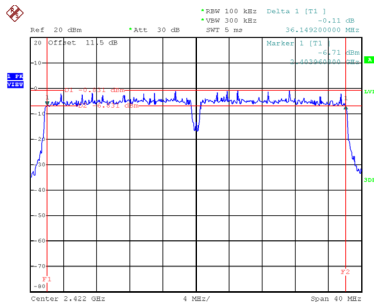


Date: 25.FEB.2025 14:34:49

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

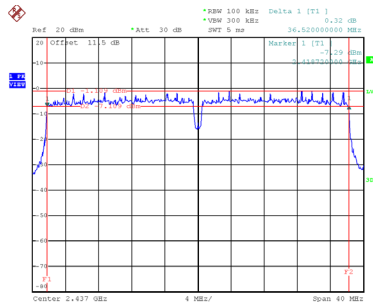
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	36.149	36.480	0.5	Complies
06	2437	36.520	36.480	0.5	Complies
09	2452	36.150	36.480	0.5	Complies

CH03



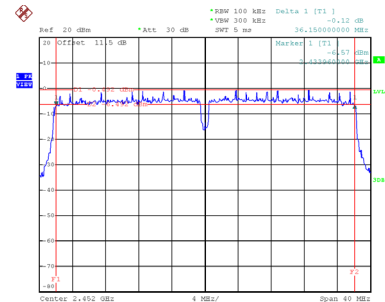
Date: 25.FEB.2025 14:42:03

CH06
6 dB Bandwidth



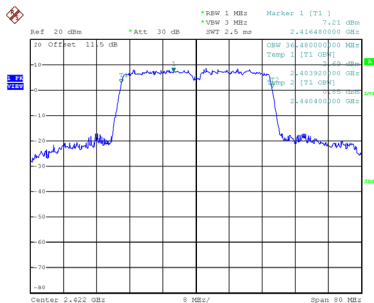
Date: 25.FEB.2025 14:44:39

CH09

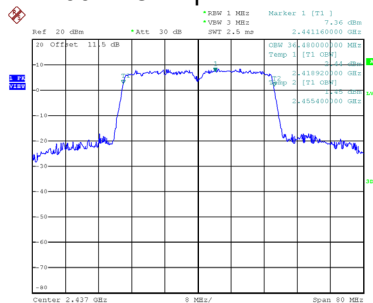


Date: 25.FEB.2025 14:47:02

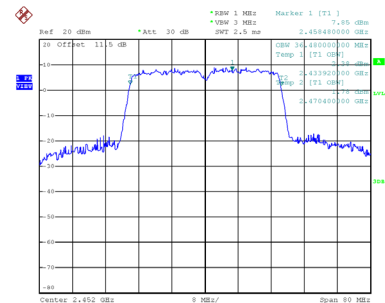
99 % Occupied Bandwidth



Date: 25.FEB.2025 14:42:12



Date: 25.FEB.2025 14:44:48

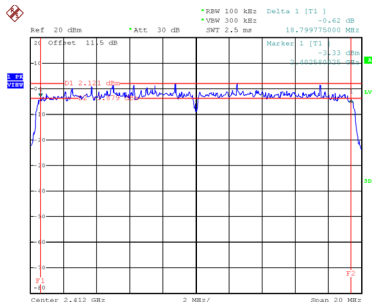


Date: 25.FEB.2025 14:47:11

Test Mode	TX AX(HE20) Mode
-----------	------------------

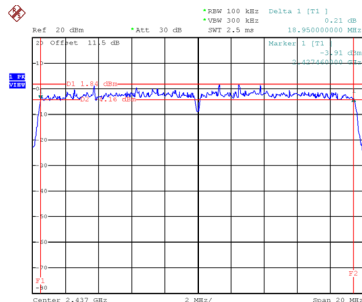
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	18.800	19.040	0.5	Complies
06	2437	18.950	18.960	0.5	Complies
11	2462	18.910	18.960	0.5	Complies

CH01



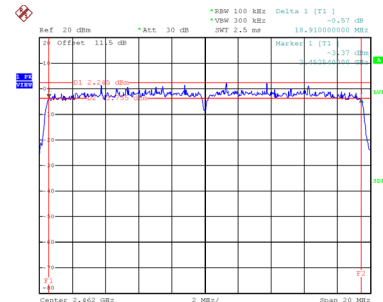
Date: 25.FEB.2025 15:06:02

CH06
6 dB Bandwidth



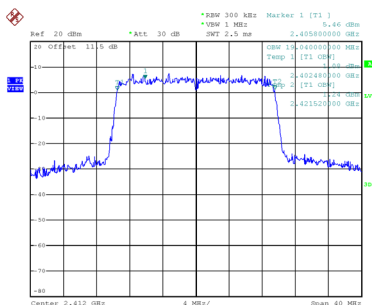
Date: 25.FEB.2025 15:07:43

CH11

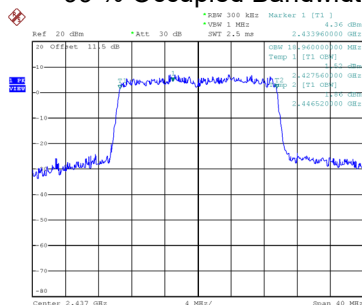


Date: 25.FEB.2025 15:10:07

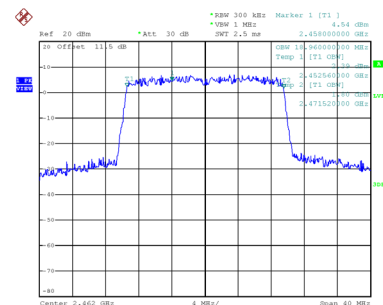
99 % Occupied Bandwidth



Date: 25.FEB.2025 15:06:11



Date: 25.FEB.2025 15:07:51

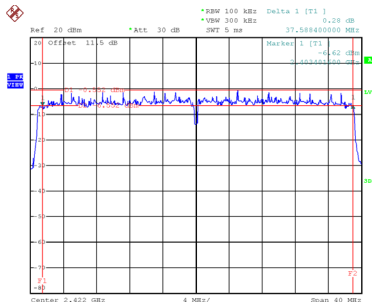


Date: 25.FEB.2025 15:10:16

Test Mode	TX AX(HE40) Mode
-----------	------------------

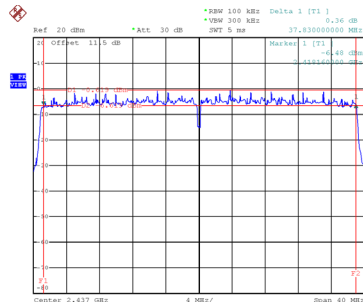
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	37.588	38.240	0.5	Complies
06	2437	37.830	38.080	0.5	Complies
09	2452	37.679	38.080	0.5	Complies

CH03



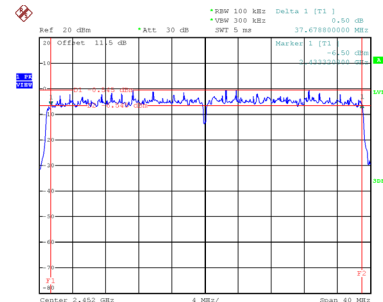
Date: 25.FEB.2025 15:21:19

CH06
6 dB Bandwidth



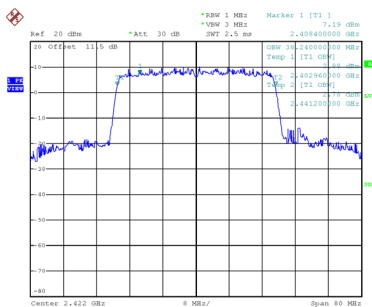
Date: 25.FEB.2025 15:22:59

CH09

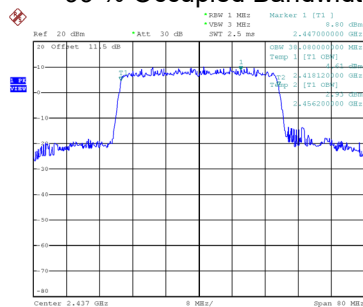


Date: 25.FEB.2025 15:24:33

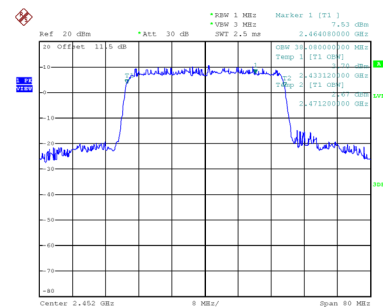
99 % Occupied Bandwidth



Date: 25.FEB.2025 15:21:27



Date: 25.FEB.2025 15:23:08



Date: 25.FEB.2025 15:24:42

APPENDIX E - MAXIMUM OUTPUT POWER

Test Mode	TX B Mode_Ant. 1
Test Date	2025/3/20

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.04	0.00	15.04	30.00	1.0000	Complies
06	2437	15.12	0.00	15.12	30.00	1.0000	Complies
11	2462	15.21	0.00	15.21	30.00	1.0000	Complies

Test Mode	TX B Mode_Ant. 2
Test Date	2025/3/20

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.91	0.00	14.91	30.00	1.0000	Complies
06	2437	14.99	0.00	14.99	30.00	1.0000	Complies
11	2462	15.02	0.00	15.02	30.00	1.0000	Complies

Test Mode	TX B Mode_Total
Test Date	2025/3/20

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.99	30.00	1.0000	Complies
06	2437	18.07	30.00	1.0000	Complies
11	2462	18.13	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 1
Test Date	2025/3/20

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.94	0.00	14.94	30.00	1.0000	Complies
06	2437	15.06	0.00	15.06	30.00	1.0000	Complies
11	2462	15.12	0.00	15.12	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 2
Test Date	2025/3/20

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.75	0.00	14.75	30.00	1.0000	Complies
06	2437	14.89	0.00	14.89	30.00	1.0000	Complies
11	2462	14.87	0.00	14.87	30.00	1.0000	Complies

Test Mode	TX G Mode_Total
Test Date	2025/3/20

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.86	30.00	1.0000	Complies
06	2437	17.99	30.00	1.0000	Complies
11	2462	18.01	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 1
Test Date	2025/3/20

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.99	0.10	15.09	30.00	1.0000	Complies
06	2437	15.02	0.10	15.12	30.00	1.0000	Complies
11	2462	13.89	0.10	13.99	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 2
Test Date	2025/3/20

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.83	0.10	14.93	30.00	1.0000	Complies
06	2437	14.81	0.10	14.91	30.00	1.0000	Complies
11	2462	13.76	0.10	13.86	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Total
Test Date	2025/3/20

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.02	30.00	1.0000	Complies
06	2437	18.02	30.00	1.0000	Complies
11	2462	16.93	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 1
Test Date	2025/3/20

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	13.23	0.20	13.43	30.00	1.0000	Complies
06	2437	15.10	0.20	15.30	30.00	1.0000	Complies
09	2452	11.82	0.20	12.02	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 2
Test Date	2025/3/20

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	13.02	0.20	13.22	30.00	1.0000	Complies
06	2437	14.76	0.20	14.96	30.00	1.0000	Complies
09	2452	11.65	0.20	11.85	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Total
Test Date	2025/3/20

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	16.34	30.00	1.0000	Complies
06	2437	18.15	30.00	1.0000	Complies
09	2452	14.95	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Ant. 1
Test Date	2025/3/20

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.08	0.12	15.20	30.00	1.0000	Complies
06	2437	15.14	0.12	15.26	30.00	1.0000	Complies
11	2462	13.33	0.12	13.45	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Ant. 2
Test Date	2025/3/20

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.83	0.12	14.95	30.00	1.0000	Complies
06	2437	14.85	0.12	14.97	30.00	1.0000	Complies
11	2462	13.16	0.12	13.28	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Total
Test Date	2025/3/20

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.09	30.00	1.0000	Complies
06	2437	18.13	30.00	1.0000	Complies
11	2462	16.37	30.00	1.0000	Complies

Test Mode	TX AX(HE40) Mode_Ant. 1
Test Date	2025/3/20

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	14.37	0.31	14.68	30.00	1.0000	Complies
06	2437	15.09	0.31	15.40	30.00	1.0000	Complies
09	2452	12.42	0.31	12.73	30.00	1.0000	Complies

Test Mode	TX AX(HE40) Mode_Ant. 2
Test Date	2025/3/20

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	14.22	0.31	14.53	30.00	1.0000	Complies
06	2437	14.91	0.31	15.22	30.00	1.0000	Complies
09	2452	12.33	0.31	12.64	30.00	1.0000	Complies

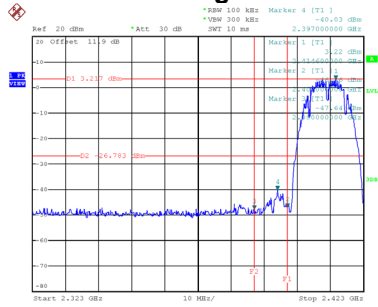
Test Mode	TX AX(HE40) Mode_Total
Test Date	2025/3/20

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.62	30.00	1.0000	Complies
06	2437	18.32	30.00	1.0000	Complies
09	2452	15.70	30.00	1.0000	Complies

APPENDIX F - CONDUCTED SPURIOUS EMISSIONS

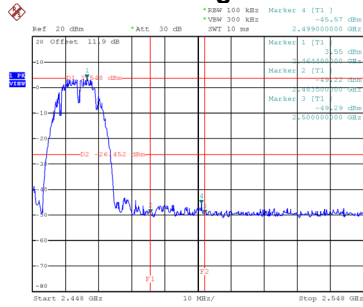
Test Mode TX B Mode_Ant. 1

Bandedge-CH01



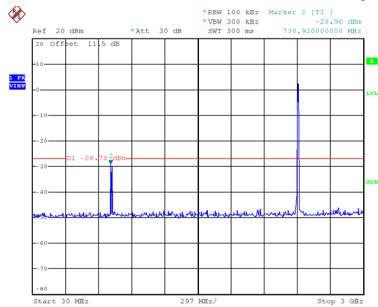
Date: 25.FEB.2025 14:04:24

Bandedge-CH11

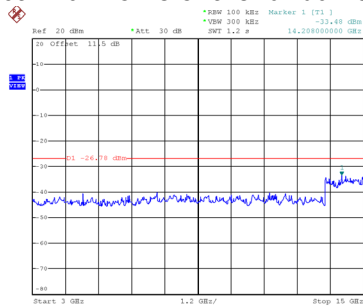


Date: 25.FEB.2025 14:16:37

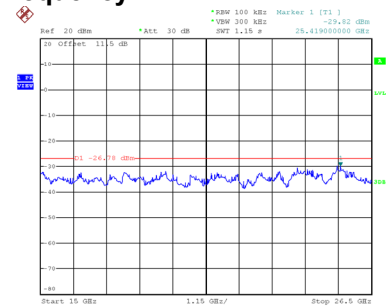
CH01 – 10th Harmonic of the fundamental frequency



Date: 25.FEB.2025 14:04:39

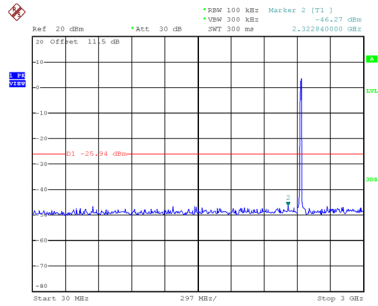


Date: 25.FEB.2025 14:04:48

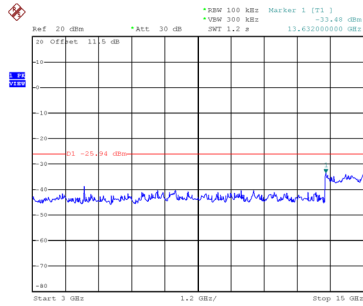


Date: 25.FEB.2025 14:04:57

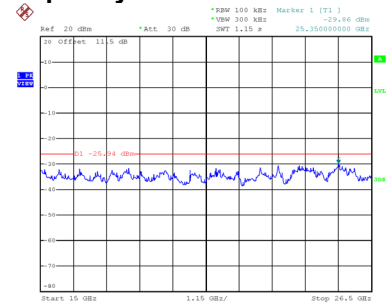
CH06 – 10th Harmonic of the fundamental frequency



Date: 25.FEB.2025 14:14:49

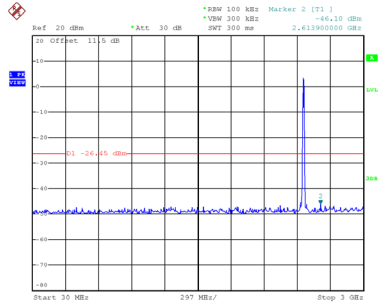


Date: 25.FEB.2025 14:14:59

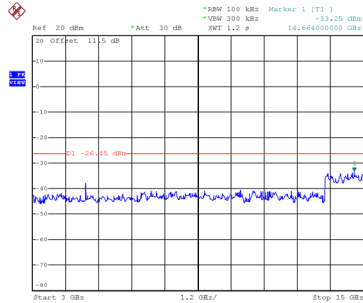


Date: 25.FEB.2025 14:15:08

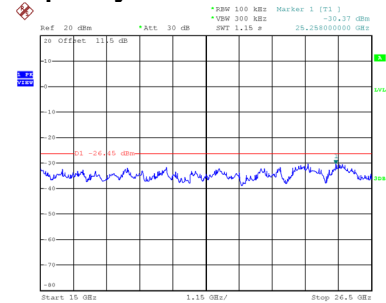
CH11 – 10th Harmonic of the fundamental frequency



Date: 25.FEB.2025 14:16:52



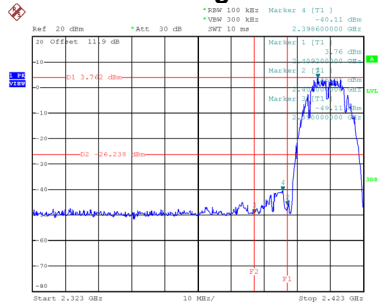
Date: 25.FEB.2025 14:17:01



Date: 25.FEB.2025 14:17:11

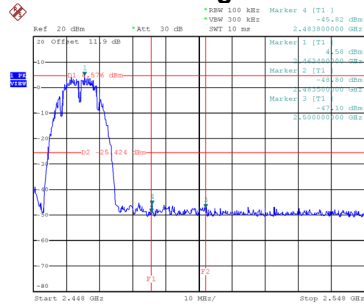
Test Mode TX B Mode_Ant. 2

Bandedge-CH01



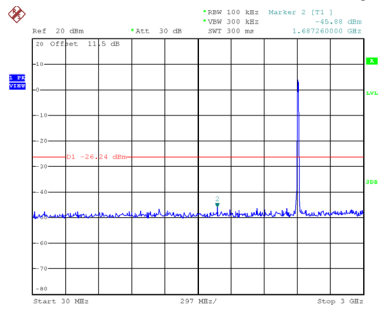
Date: 25.FEB.2025 15:37:10

Bandedge-CH11

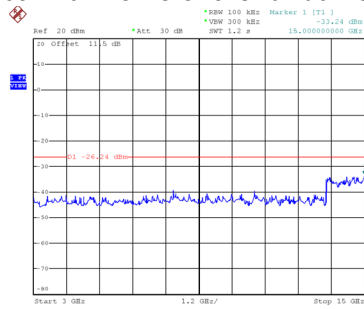


Date: 25.FEB.2025 15:41:00

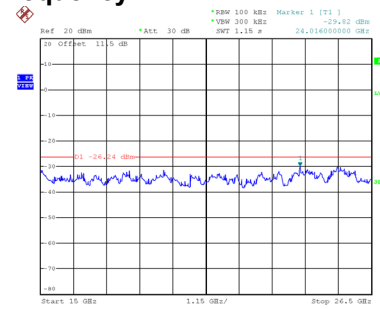
CH01 – 10th Harmonic of the fundamental frequency



Date: 25.FEB.2025 15:37:26

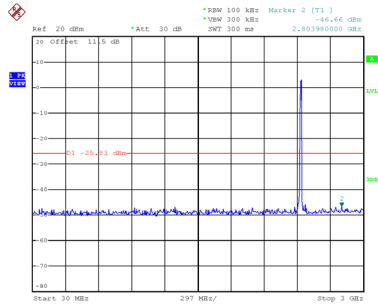


Date: 25.FEB.2025 15:37:35

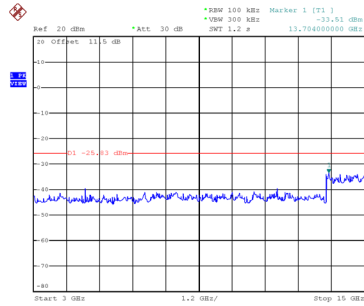


Date: 25.FEB.2025 15:37:44

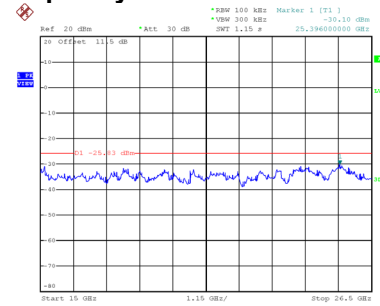
CH06 – 10th Harmonic of the fundamental frequency



Date: 25.FEB.2025 15:39:10

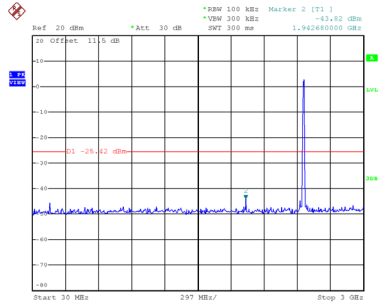


Date: 25.FEB.2025 15:39:19

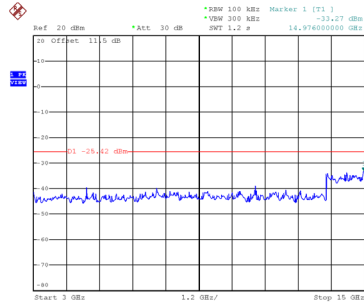


Date: 25.FEB.2025 15:39:28

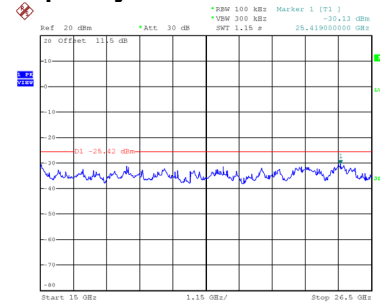
CH11 – 10th Harmonic of the fundamental frequency



Date: 25.FEB.2025 15:41:15



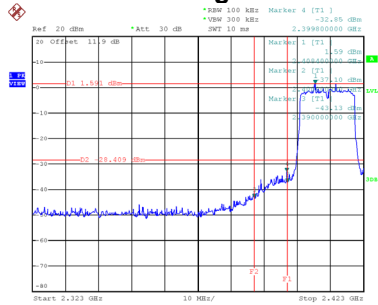
Date: 25.FEB.2025 15:41:24



Date: 25.FEB.2025 15:41:33

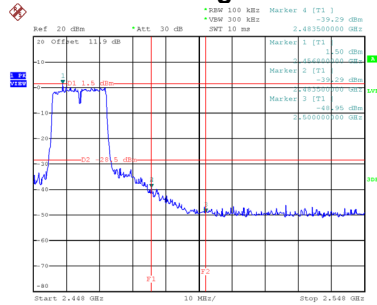
Test Mode TX G Mode_Ant. 1

Bandedge-CH01



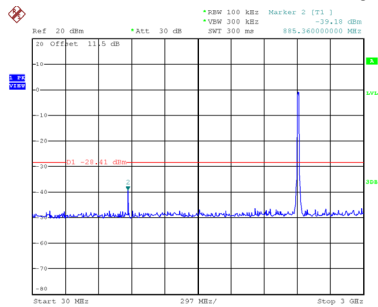
Date: 25.FEB.2025 14:21:36

Bandedge-CH11

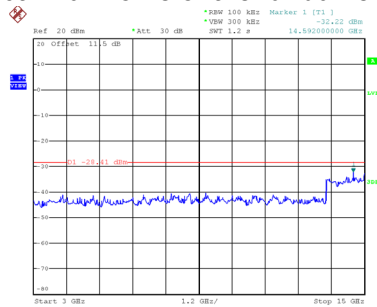


Date: 25.FEB.2025 14:26:34

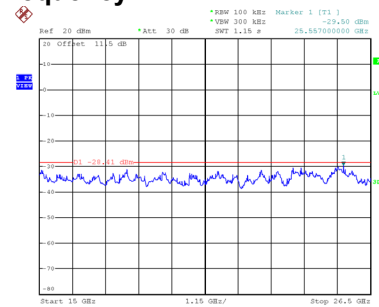
CH01 – 10th Harmonic of the fundamental frequency



Date: 25.FEB.2025 14:21:51

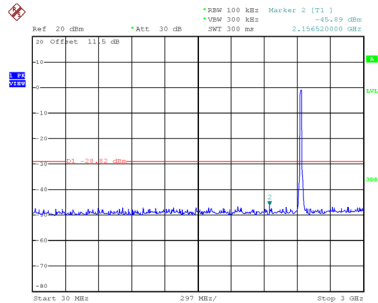


Date: 25.FEB.2025 14:22:00

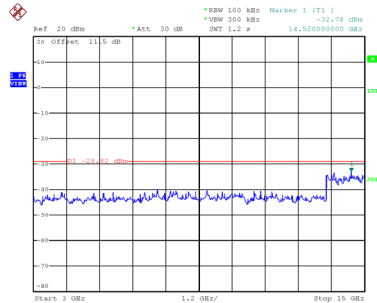


Date: 25.FEB.2025 14:22:09

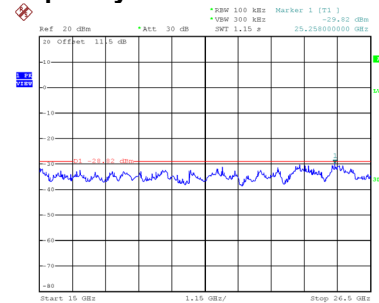
CH06 – 10th Harmonic of the fundamental frequency



Date: 25.FEB.2025 14:24:55

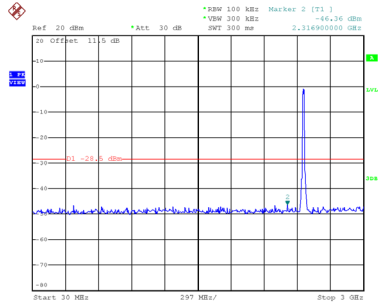


Date: 25.FEB.2025 14:25:04

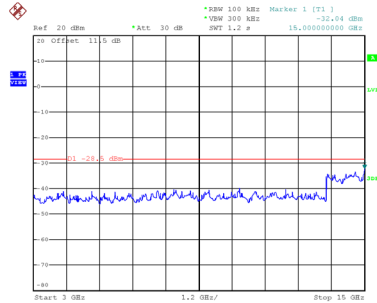


Date: 25.FEB.2025 14:25:13

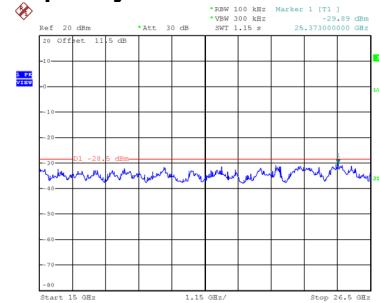
CH11 – 10th Harmonic of the fundamental frequency



Date: 25.FEB.2025 14:26:49



Date: 25.FEB.2025 14:26:58



Date: 25.FEB.2025 14:27:08