

FCC Radio Test Report

FCC ID: IR5DP10A

Report No. : BTL-FCCP-3-2508T097
Equipment : tablet
Model Name : DP10A
Brand Name : MilDef Crete Inc.
Applicant : MilDef Crete Inc.
Address : 7F, No. 250, Sec.3, Peishen Rd., Shengkeng District, New Taipei City, Taiwan

Radio Function : WLAN 2.4 GHz

FCC Rule Part(s) : FCC CFR Title 47, Part 15, Subpart C (15.247)
Measurement Procedure(s) : ANSI C63.10-2020

Date of Receipt : 2025/8/20
Date of Test : 2025/8/28 ~ 2025/10/23
Issued Date : 2025/11/11

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

Prepared by : Brett Shen
 Brett Shen, Engineer

Approved by : Jerry Chuang
 Jerry Chuang, Vice 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** assumes no responsibility for the data provided by the Customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**.

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.

CONTENTS

REVISION HISTORY	5
1 SUMMARY OF TEST RESULTS	6
1.1 TEST FACILITY	7
1.2 MEASUREMENT UNCERTAINTY	7
1.3 TEST ENVIRONMENT CONDITIONS	7
1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	8
1.5 DUTY CYCLE	8
2 GENERAL INFORMATION	10
2.1 DESCRIPTION OF EUT	10
2.2 TEST MODES	11
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	12
2.4 SUPPORT UNITS	13
3 AC POWER LINE CONDUCTED EMISSIONS TEST	14
3.1 LIMIT	14
3.2 TEST PROCEDURE	14
3.3 DEVIATION FROM TEST STANDARD	14
3.4 TEST SETUP	15
3.5 TEST RESULT	15
4 RADIATED EMISSIONS TEST	16
4.1 LIMIT	16
4.2 TEST PROCEDURE	17
4.3 DEVIATION FROM TEST STANDARD	17
4.4 TEST SETUP	18
4.5 EUT OPERATING CONDITIONS	19
4.6 TEST RESULT – 9 KHZ TO 30 MHZ	19
4.7 TEST RESULT – 30 MHZ TO 1 GHZ	19
4.8 TEST RESULT – ABOVE 1 GHZ	19
5 BANDWIDTH TEST	20
5.1 LIMIT	20
5.2 TEST PROCEDURE	20
5.3 DEVIATION FROM TEST STANDARD	20
5.4 TEST SETUP	20
5.5 EUT OPERATING CONDITIONS	20
5.6 TEST RESULT	20
6 OUTPUT POWER TEST	21
6.1 LIMIT	21
6.2 TEST PROCEDURE	21
6.3 DEVIATION FROM TEST STANDARD	21
6.4 TEST SETUP	21
6.5 EUT OPERATING CONDITIONS	21
6.6 TEST RESULT	21
7 POWER SPECTRAL DENSITY	22
7.1 LIMIT	22
7.2 TEST PROCEDURE	22
7.3 DEVIATION FROM TEST STANDARD	22
7.4 TEST SETUP	22
7.5 EUT OPERATING CONDITIONS	22

7.6	TEST RESULT	22
8	ANTENNA CONDUCTED SPURIOUS EMISSIONS TEST	23
8.1	LIMIT	23
8.2	TEST PROCEDURE	23
8.3	DEVIATION FROM TEST STANDARD	23
8.4	TEST SETUP	23
8.5	EUT OPERATING CONDITIONS	23
8.6	TEST RESULT	23
9	LIST OF MEASURING EQUIPMENTS	24
10	EUT TEST PHOTO	26
11	EUT PHOTOS	26
APPENDIX A	AC POWER LINE CONDUCTED EMISSIONS	27
APPENDIX B	RADIATED EMISSIONS - 9 KHZ TO 30 MHZ	32
APPENDIX C	RADIATED EMISSIONS - 30 MHZ TO 1 GHZ	37
APPENDIX D	RADIATED EMISSIONS - ABOVE 1 GHZ	40
APPENDIX E	BANDWIDTH	75
APPENDIX F	OUTPUT POWER	80
APPENDIX G	POWER SPECTRAL DENSITY	82
APPENDIX H	ANTENNA CONDUCTED SPURIOUS EMISSIONS	85

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2508T097	R00	Original Report.	2025/11/11	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	-----
15.205 15.209 15.247(d)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	Pass	-----
15.247(a)	Bandwidth	APPENDIX E	Pass	-----
15.247(b)	Output Power	APPENDIX F	Pass	-----
15.247(e)	Power Spectral Density	APPENDIX G	Pass	-----
15.247(d)	Antenna conducted Spurious Emission	APPENDIX H	Pass	-----
15.203	Antenna Requirement	-----	Pass	-----

Statement of Conformity

The statement of conformity is based on the binary decision rule according to IEC Guide 115 and ILAC G8 "simple acceptance" principle. Without considering measurement uncertainty, its specific risk is less than 50% PFA. (PFA: Probability of False Accept)

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.

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. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

☒ C05 ☐ CB08 ☐ CB11 ☐ SR10 ☒ SR11

No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

☐ C06 ☒ CB21 ☐ CB22

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 %**.

A. AC power line conducted emissions test:

Test Site	Measurement Frequency Range	U_{Lab} (dB)	U_{CISPR} (dB)
C05	150 kHz ~ 30 MHz	3.22	3.44

B. Radiated emissions test:

Test Site	Measurement Frequency Range (GHz)	U (dB)
CB21 (3m)	0.03~0.2	4.41
	0.02~1	4.61
	1 ~ 6	5.45
	6 ~ 18	5.04
	18 ~ 26	4.03
	26 ~ 40	4.33

C. Conducted test:

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	22 °C, 55 %	AC 120V	Ken Lan
Radiated emissions below 1 GHz	Refer to data	AC 120V	Mark Wang
Radiated emissions above 1 GHz	Refer to data	AC 120V	Mark Wang
Bandwidth	25.2 °C, 57 %	AC 120V	Ken Lan
Output Power	23.6 °C, 58 %	AC 120V	Ken Lan
Power Spectral Density	25.2 °C, 57 %	AC 120V	Ken Lan
Antenna conducted Spurious Emission	25.2 °C, 57 %	AC 120V	Ken Lan

1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

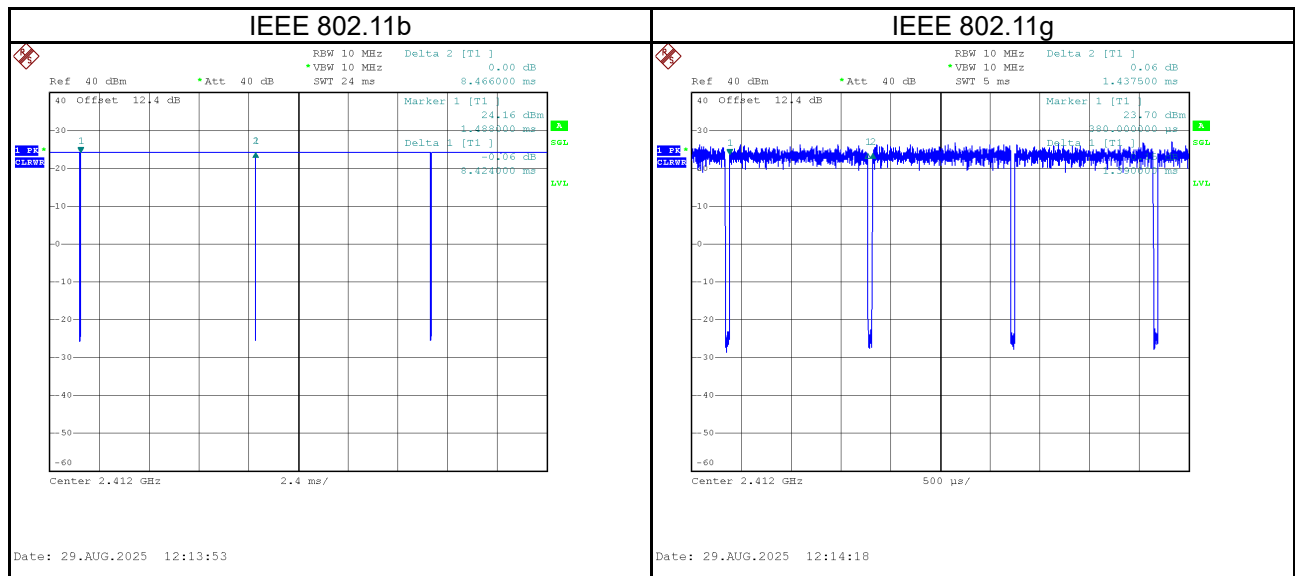
Test Software	EngineerMode WIFI FW Version 2024-07-15-120601			
Mode	2412 MHz	2437 MHz	2462 MHz	Data Rate
IEEE 802.11b	19.5	21.5	21.5	1 Mbps
IEEE 802.11g	17	21.5	21	6 Mbps
IEEE 802.11n (HT20)	16	21.5	21	MCS 0
Mode	2422 MHz	2437 MHz	2452 MHz	Data Rate
IEEE 802.11n (HT40)	18.5	21.5	17	MCS 0

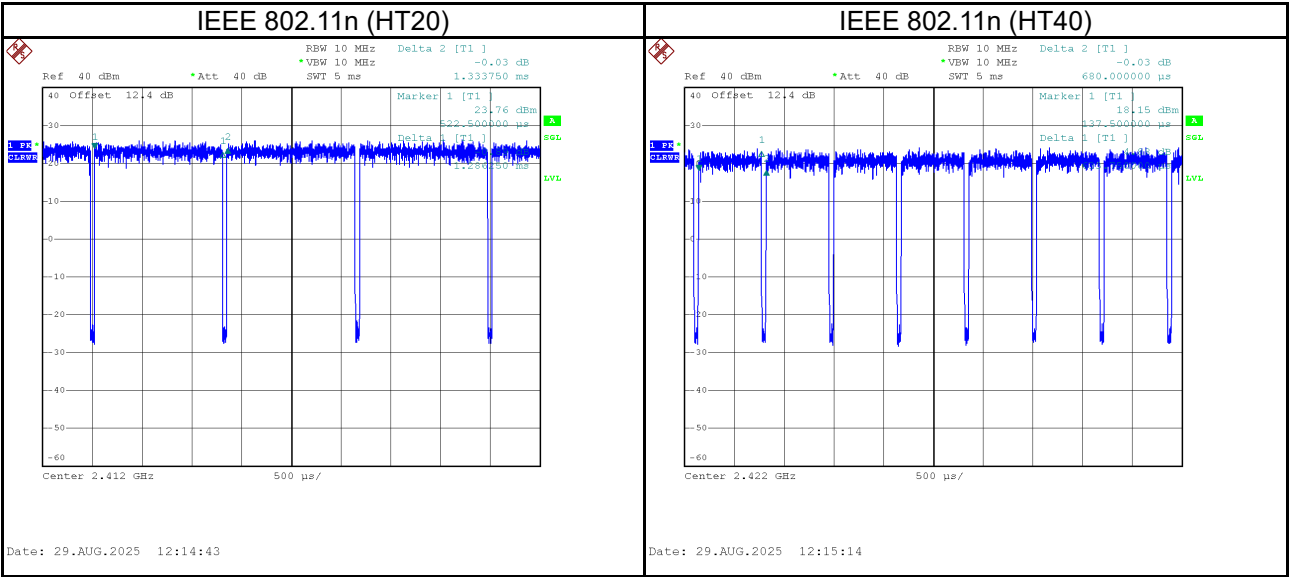
1.5 DUTY CYCLE

If duty cycle is $\geq 98\%$, duty factor is not required.

If duty cycle is $< 98\%$, duty factor shall be considered.

Remark	Delta 1			Delta 2	On Time/Period	10 log(1/Duty Cycle)
Mode	ON (ms)	Numbers (ON)	On Time (B) (ms)	Period (ON+OFF) (ms)	Duty Cycle (%)	Duty Factor (dB)
IEEE 802.11b	8.424	1	8.424	8.466	99.50%	0.02
IEEE 802.11g	1.390	1	1.390	1.438	96.70%	0.15
IEEE 802.11n (HT20)	1.286	1	1.286	1.334	96.44%	0.16
IEEE 802.11n (HT40)	0.634	1	0.634	0.680	93.20%	0.31





2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	tablet
Model Name	DP10A
Brand Name	MilDef Crete Inc.
Model Difference	N/A
Power Source	DC Voltage supplied from AC/DC adapter.
Power Rating	EUT: 5V---3A, 9V---3A For Adapter I/P: 100~240V~ 50~60Hz 0.85A O/P: 5.0V---3.0A_15.0W; 9.0V---3.0A_27.0W; 12.0V---3.0A_36.0W; 15.0V---3.0A_45.0W; 20.0V---3.0A_60.0W
Products Covered	1 * AC ADAPTER: ADAPTER TECH. / CDP060A2-P200 1 * AC CORD: SHYH CHANG ENTERPRISE / G331103031
Operation Band	2400 MHz ~ 2483.5 MHz
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Technology	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM
Transfer Rate	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 150 Mbps
Output Power Max.	IEEE 802.11b: 21.84 dBm (0.1528 W) IEEE 802.11g: 25.04 dBm (0.3192 W) IEEE 802.11n (HT20): 24.94 dBm (0.3119 W) IEEE 802.11n (HT40): 25.23 dBm (0.3334 W)
Test Model	DP10A
Sample Status	Engineering Sample
EUT Modification(s)	N/A

NOTE:

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	06	2437	11	2462
02	2417	07	2442		
03	2422	08	2447		
04	2427	09	2452		
05	2432	10	2457		

(3) Table for Filed Antenna:

Antenna	Brand	Part Number	Antenna Type	Connector	Gain (dBi)
1	MilDef Crete Inc.	G980-000244	PCB	I-PEX	-0.96

(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.

2.2 TEST MODES

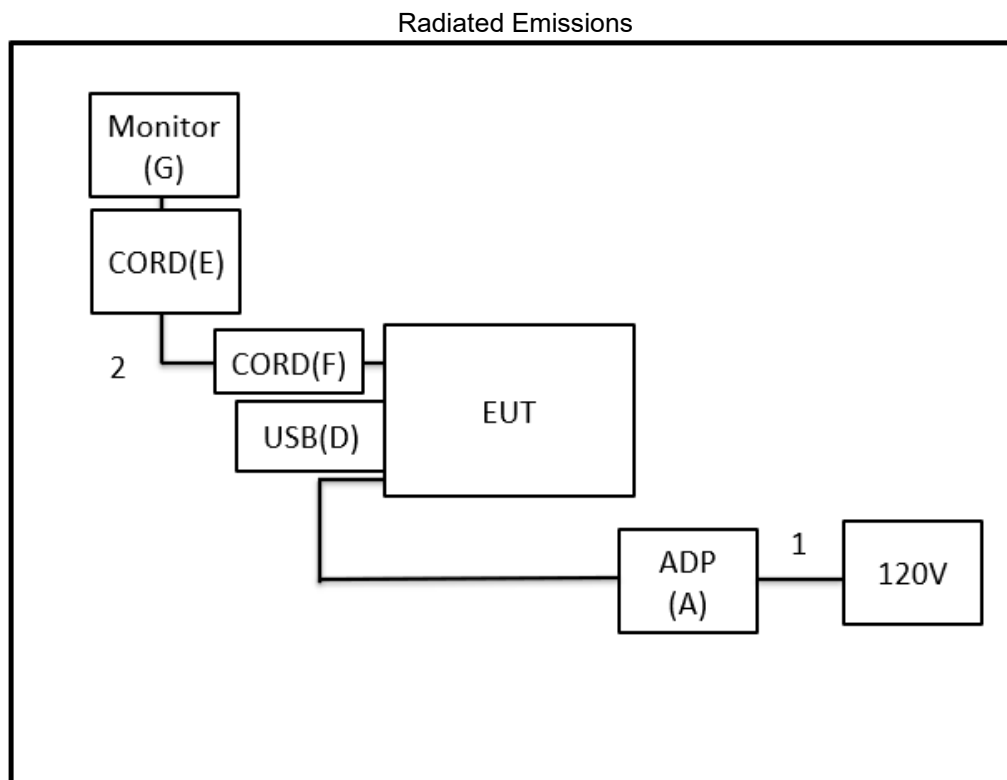
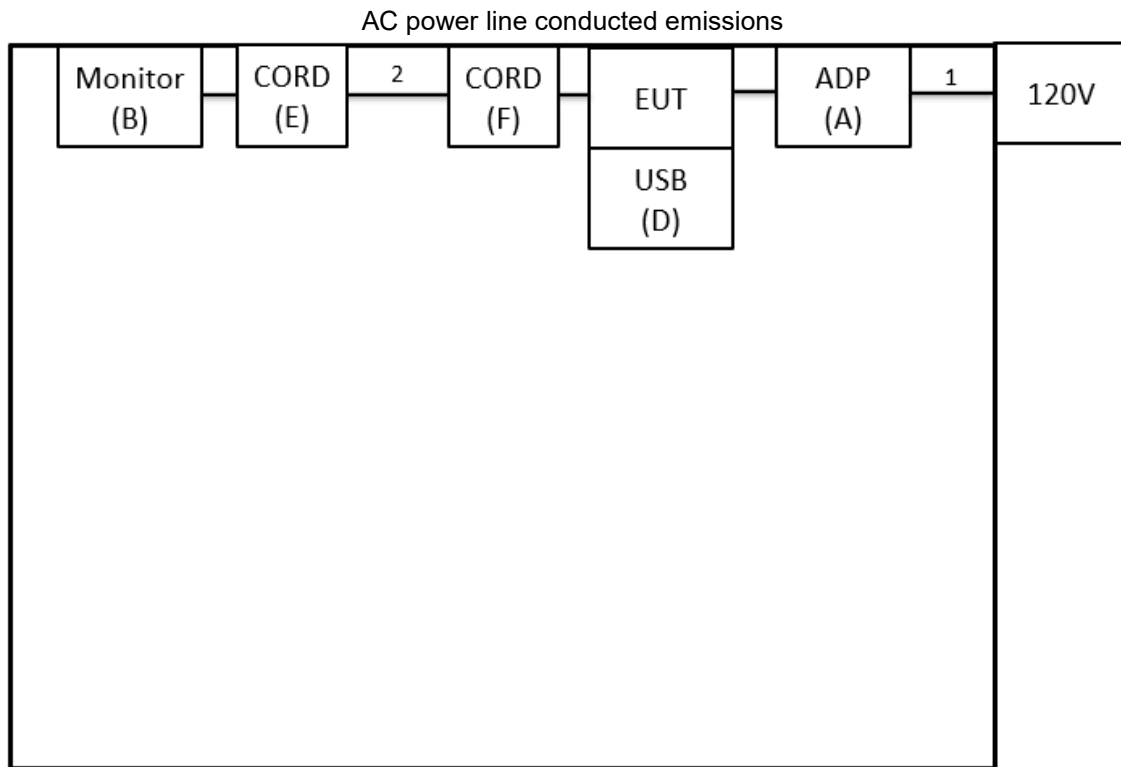
Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Transmitter Radiated Emissions (below 1GHz)	TX Mode_ IEEE 802.11b	01	-
Transmitter Radiated Emissions (above 1GHz)	TX Mode_ IEEE 802.11b	01/11	Bandedge
	TX Mode_ IEEE 802.11g		
	TX Mode_ IEEE 802.11n (HT20)		
	TX Mode_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

NOTE:

- (1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Horizontal) is recorded.
- (2) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.

2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	AC ADAPTER	ADAPTER TECH.	CDP060A2-P200	N/A	Supplied by test requester
B	Monitor	N/A	N/A	N/A	Furnished by test lab.
C	Mouse	N/A	N/A	N/A	Furnished by test lab.
D	USB	N/A	N/A	N/A	Furnished by test lab.
E	CORD	N/A	N/A	N/A	Furnished by test lab.
F	CORD	N/A	N/A	N/A	Supplied by test requester
G	Monitor	N/A	N/A	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	1.8m	AC CORD	Supplied by test requester
2	N/A	N/A	1.8m	HDMI Cable	Furnished by test lab.

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (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 (dBμV)		Correct Factor (dB)		Measurement Value (dBμV)
38.22	+	3.45	=	41.67

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

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
 All other support equipment were powered from an additional LISN(s).
 The LISN provides 50 Ohm/50uH of 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 to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
 The end of the cable will be terminated, using the correct terminating impedance.
 The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

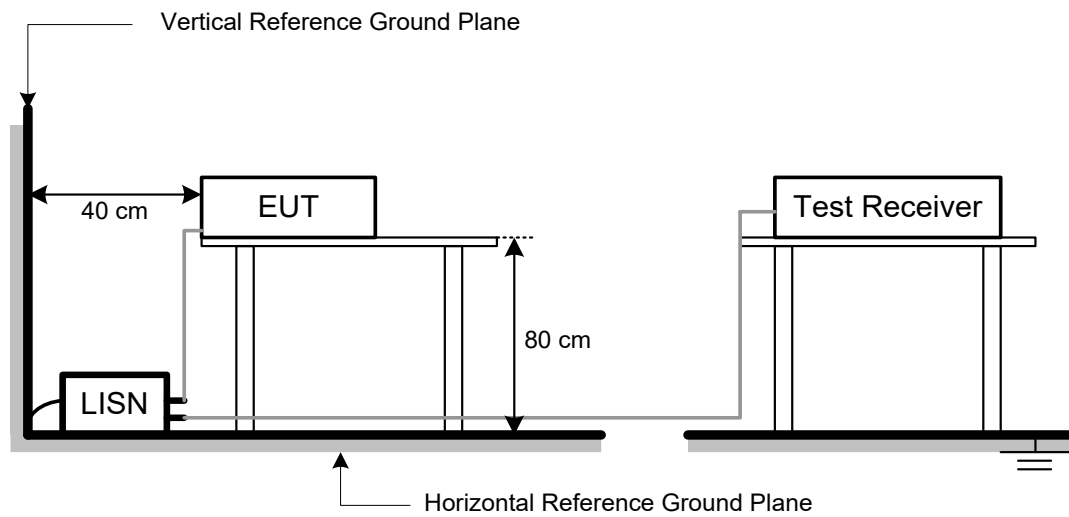
NOTE:

- (1) In the results, each reading is marked as Peak, QP or AVG per the detector used.
 BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.

4 RADIATED EMISSIONS TEST

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205, then the 15.209 limit in the table below has to be followed.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 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
960~1000	500	3

LIMITS OF RADIATED EMISSIONS MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Radiated Emissions (dBuV/m)		Measurement Distance (meters)
	Peak	Average	
Above 1000	74	54	3

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

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

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

4.2 TEST PROCEDURE

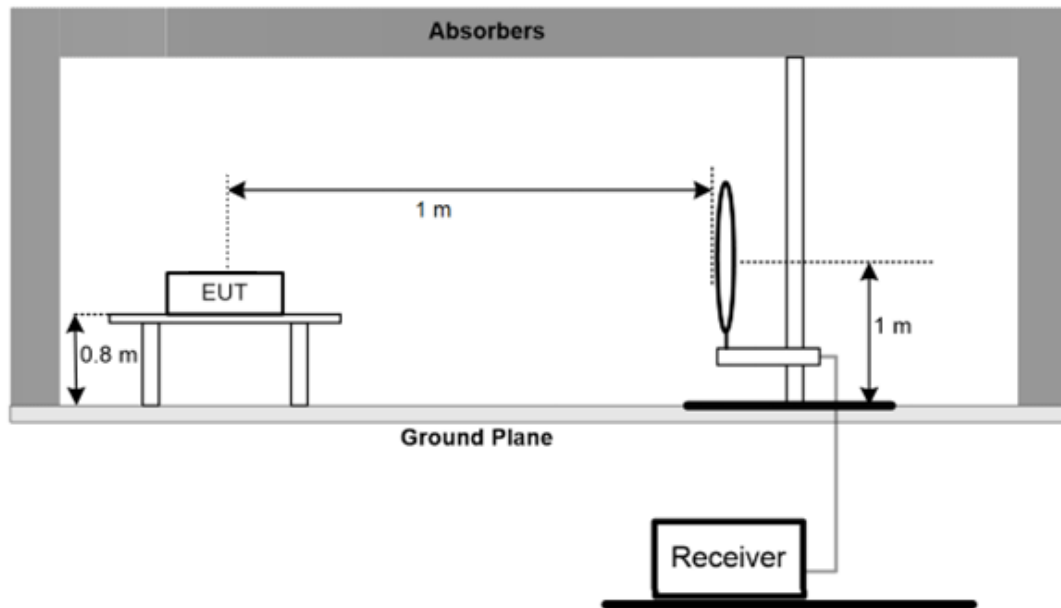
- The measuring distance of 1 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 30MHz)
- The measuring distance 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 1GHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, 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 1GHz.
- 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 1GHz)
- 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 1GHz)
- For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

4.3 DEVIATION FROM TEST STANDARD

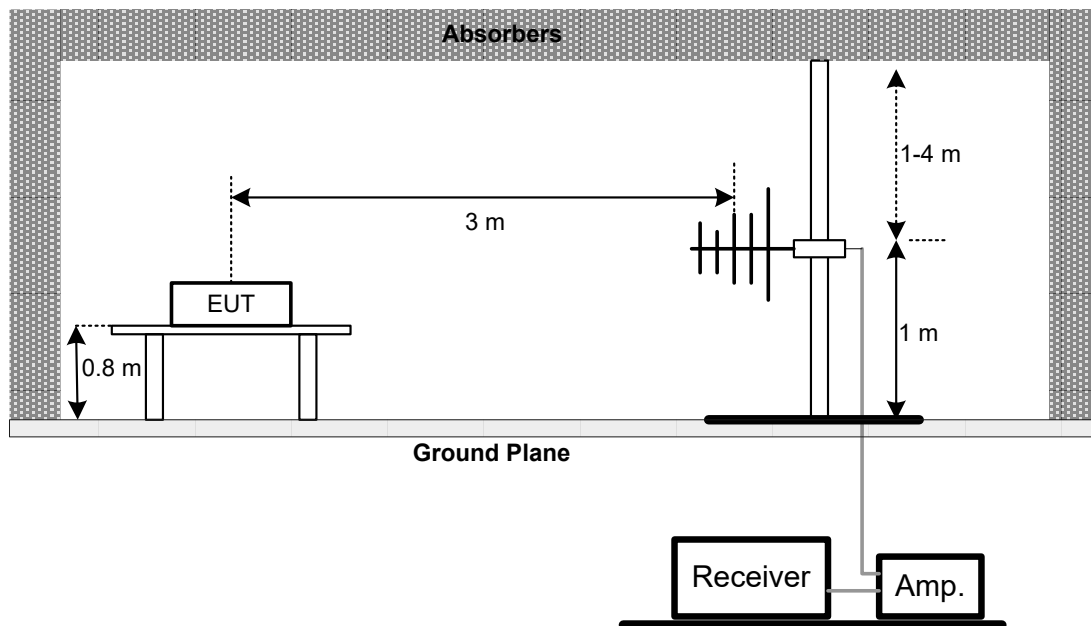
No deviation.

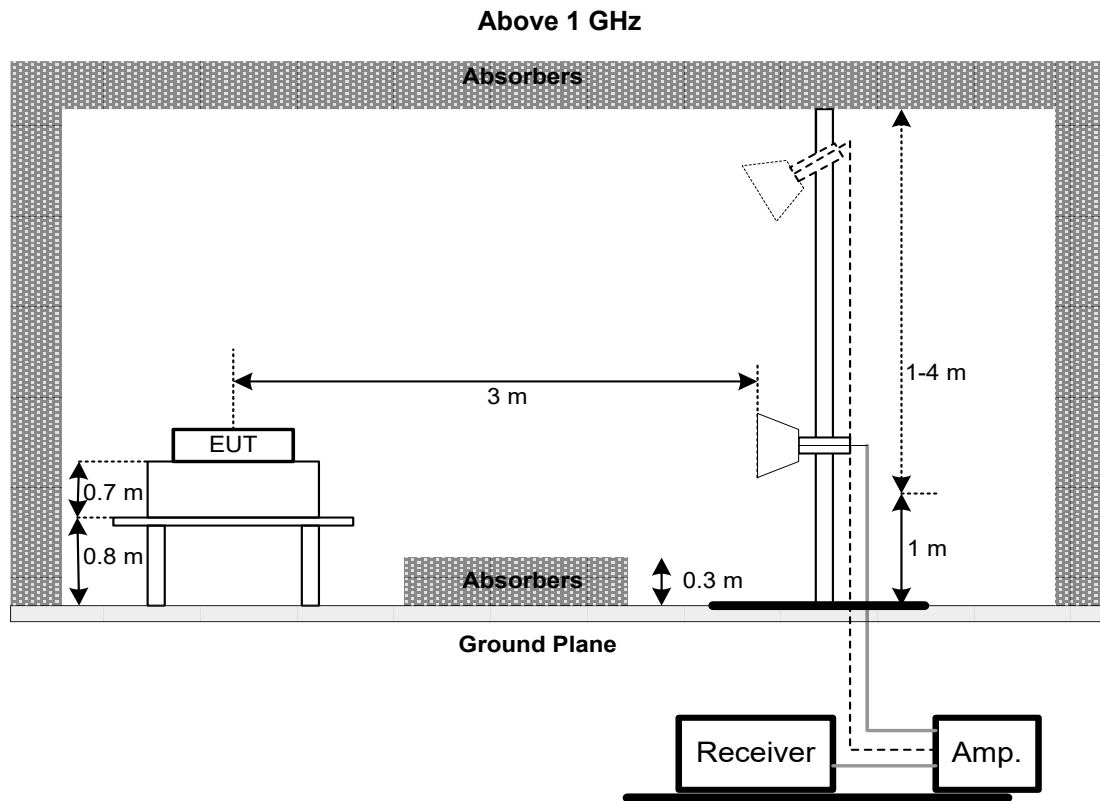
4.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz





4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT – 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

4.7 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX C.

4.8 TEST RESULT – ABOVE 1 GHZ

Please refer to the APPENDIX D.

NOTE:

- (1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5 BANDWIDTH TEST

5.1 LIMIT

Section	Test Item	Limit
15.247(a)	6 dB Bandwidth	500 kHz

5.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT

Please refer to the APPENDIX E.

6 OUTPUT POWER TEST

6.1 LIMIT

Section	Test Item	Limit
15.247(b)	Maximum Output Power	1 Watt or 30dBm

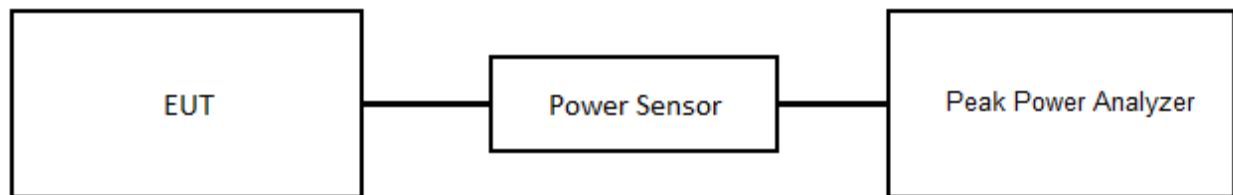
6.2 TEST PROCEDURE

- The EUT was directly connected to the Peak Power Analyzer and antenna output port as show in the block diagram below.
- The maximum peak conducted output power was performed in accordance with FCC KDB 558074 D01 15.247 Meas Guidance.
- Subclause 11.9.1.1 of ANSI C63.10 is applied. The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

6.3 DEVIATION FROM TEST STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULT

Please refer to the APPENDIX F.

7 POWER SPECTRAL DENSITY

7.1 LIMIT

Section	Test Item	Limit
15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

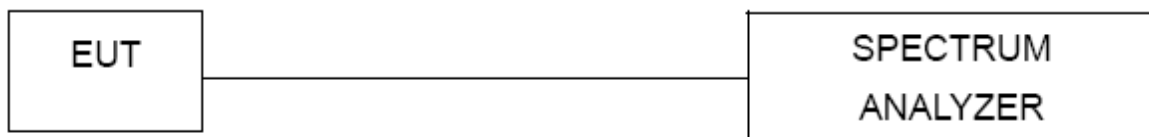
7.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW = 3 kHz, VBW = 10 kHz, Sweep time = Auto.

7.3 DEVIATION FROM TEST STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULT

Please refer to the APPENDIX G.

8 ANTENNA CONDUCTED SPURIOUS EMISSIONS TEST

8.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits.

8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW = 100 kHz, VBW=300 kHz, Sweep time = Auto.
- Offset = antenna gain + cable loss.

8.3 DEVIATION FROM TEST STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULT

Please refer to the APPENDIX H.

9 LIST OF MEASURING EQUIPMENTS

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	101521	2025/8/29	2026/8/28
2	Test Cable	EMCI	EMCCFD300-BM-BMR-5000	220331	2025/3/29	2026/3/28
3	EMI Test Receiver	R&S	ESR3	102950	2025/4/14	2026/4/13
4	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC330N	980850	2025/9/3	2026/9/2
2	Preamplifier	EMCI	EMC118A45SE	980819	2025/3/5	2026/3/4
3	Pre-Amplifier	EMCI	EMC184045SE	980907	2025/9/3	2026/9/2
4	Preamplifier	EMCI	EMC001340	980579	2025/9/3	2026/9/2
5	Test Cable	EMCI	EMC104-SM-1000	180809	2025/3/5	2026/3/4
6	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2025/3/5	2026/3/4
7	Test Cable	EMCI	EMC105-SM-SM-8000	220422	2025/10/15	2026/10/14
8	Test Cable	EMCI	EMC104-SM-SM-7000	220324	2025/3/5	2026/3/4
9	EXA Signal Analyzer	keysight	N9020B	MY57120120	2025/2/19	2026/2/18
10	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2025/9/1	2026/8/31
11	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2025/5/9	2026/5/8
12	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2025/5/15	2026/5/14
13	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2025/7/4	2026/7/3
14	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2025/7/4	2026/7/3
15	Test Cable	EMCI	EMC101G-KM-KM-3000	220329	2025/3/12	2026/3/11
16	Test Cable	EMCI	EMC102-KM-KM-1000	220327	2025/3/12	2026/3/11
17	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A

Bandwidth						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2025/3/27	2026/3/26

Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Peak Power Analyzer	Keysight	8990B	MY51000517	2025/3/16	2026/3/15
2	Power Sensor	Keysight	N1923A	MY58310005	2025/3/18	2026/3/17

Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2025/3/27	2026/3/26

Antenna conducted Spurious Emission						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2025/3/27	2026/3/26

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.

10 EUT TEST PHOTO

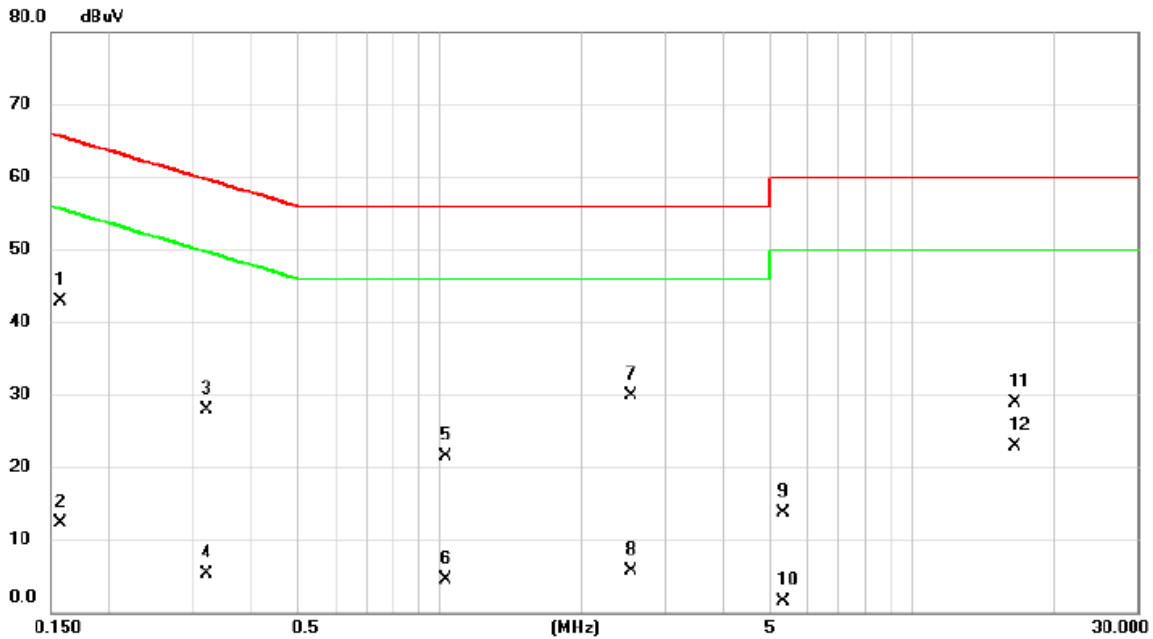
Please refer to document Appendix No.: TP-2508T097-FCCP-1 (APPENDIX-TEST PHOTOS).

11 EUT PHOTOS

Please refer to document Appendix No.: EP-2508T097-1 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2025/10/23
Test Frequency	-	Phase	Line



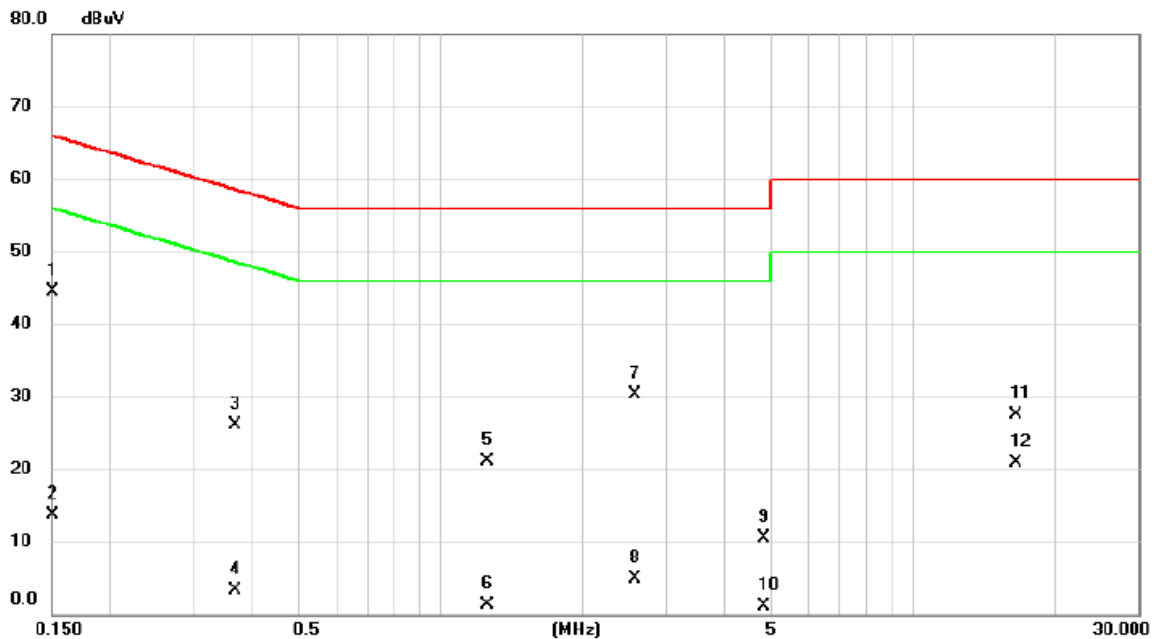
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1567	33.17	9.79	42.96	65.64	-22.68	QP	
2		0.1567	2.56	9.79	12.35	55.64	-43.29	AVG	
3		0.3210	18.19	9.75	27.94	59.68	-31.74	QP	
4		0.3210	-4.51	9.75	5.24	49.68	-44.44	AVG	
5		1.0296	11.76	9.75	21.51	56.00	-34.49	QP	
6		1.0296	-5.29	9.75	4.46	46.00	-41.54	AVG	
7		2.5462	20.17	9.78	29.95	56.00	-26.05	QP	
8		2.5462	-4.13	9.78	5.65	46.00	-40.35	AVG	
9		5.3385	3.77	9.85	13.62	60.00	-46.38	QP	
10		5.3385	-8.38	9.85	1.47	50.00	-48.53	AVG	
11		16.5345	18.97	9.89	28.86	60.00	-31.14	QP	
12		16.5345	12.93	9.89	22.82	50.00	-27.18	AVG	

REMARKS:

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

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

Test Mode	Normal	Tested Date	2025/10/23
Test Frequency	-	Phase	Neutral

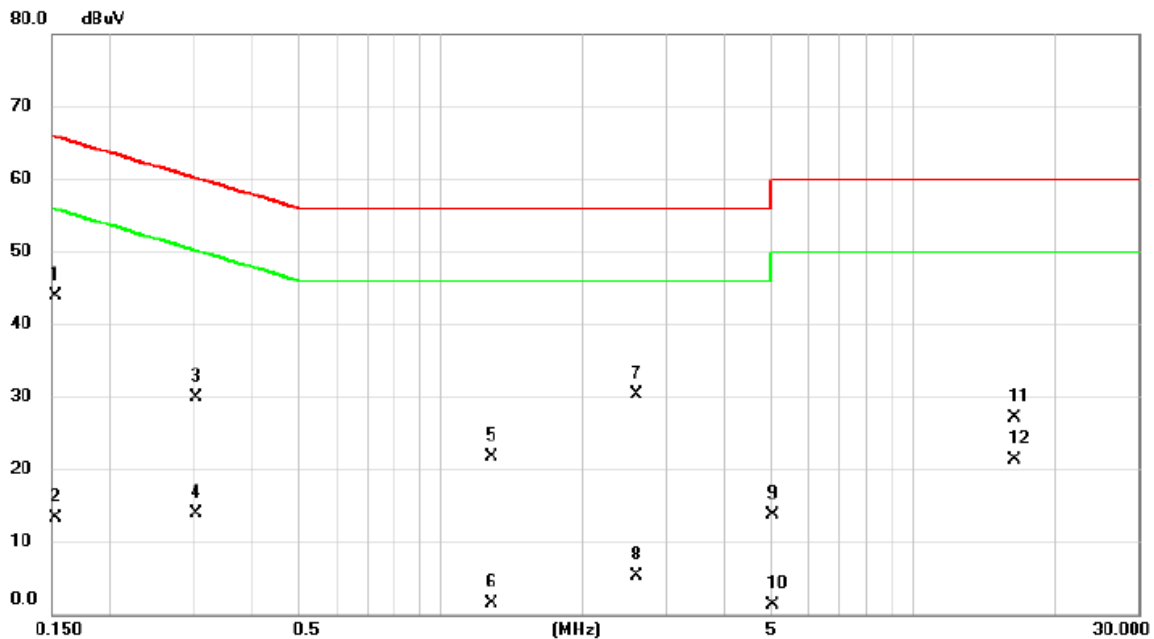


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	34.75	9.79	44.54	66.00	-21.46	QP	
2		0.1500	3.98	9.79	13.77	56.00	-42.23	AVG	
3		0.3660	16.44	9.73	26.17	58.59	-32.42	QP	
4		0.3660	-6.37	9.73	3.36	48.59	-45.23	AVG	
5		1.2548	11.32	9.76	21.08	56.00	-34.92	QP	
6		1.2548	-8.55	9.76	1.21	46.00	-44.79	AVG	
7		2.5845	20.58	9.80	30.38	56.00	-25.62	QP	
8		2.5845	-4.87	9.80	4.93	46.00	-41.07	AVG	
9		4.8255	0.64	9.86	10.50	56.00	-45.50	QP	
10		4.8255	-8.84	9.86	1.02	46.00	-44.98	AVG	
11		16.5570	17.61	9.93	27.54	60.00	-32.46	QP	
12		16.5570	10.96	9.93	20.89	50.00	-29.11	AVG	

REMARKS:

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

Test Mode	Idle	Tested Date	2025/10/23
Test Frequency	-	Phase	Line

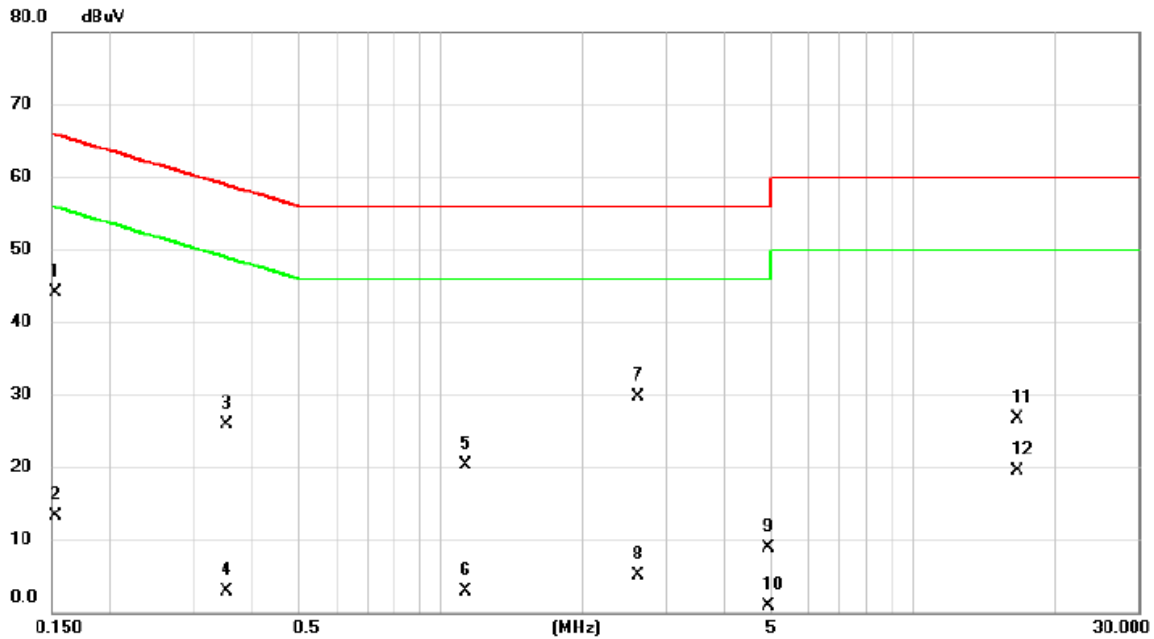


No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1522	34.17	9.78	43.95	65.88	-21.93	QP	
2	0.1522	3.49	9.78	13.27	55.88	-42.61	AVG	
3	0.3030	20.10	9.75	29.85	60.16	-30.31	QP	
4	0.3030	4.13	9.75	13.88	50.16	-36.28	AVG	
5	1.2840	12.05	9.75	21.80	56.00	-34.20	QP	
6	1.2840	-8.28	9.75	1.47	46.00	-44.53	AVG	
7	2.5890	20.53	9.78	30.31	56.00	-25.69	QP	
8	2.5890	-4.48	9.78	5.30	46.00	-40.70	AVG	
9	5.0348	3.90	9.86	13.76	60.00	-46.24	QP	
10	5.0348	-8.63	9.86	1.23	50.00	-48.77	AVG	
11	16.4444	17.31	9.89	27.20	60.00	-32.80	QP	
12	16.4444	11.49	9.89	21.38	50.00	-28.62	AVG	

REMARKS:

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

Test Mode	Idle	Tested Date	2025/10/23
Test Frequency	-	Phase	Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1522	34.38	9.79	44.17	65.88	-21.71	QP	
2		0.1522	3.51	9.79	13.30	55.88	-42.58	AVG	
3		0.3502	16.21	9.73	25.94	58.96	-33.02	QP	
4		0.3502	-6.80	9.73	2.93	48.96	-46.03	AVG	
5		1.1242	10.50	9.76	20.26	56.00	-35.74	QP	
6		1.1242	-6.84	9.76	2.92	46.00	-43.08	AVG	
7		2.6115	19.98	9.80	29.78	56.00	-26.22	QP	
8		2.6115	-4.71	9.80	5.09	46.00	-40.91	AVG	
9		4.9312	-0.90	9.86	8.96	56.00	-47.04	QP	
10		4.9312	-8.98	9.86	0.88	46.00	-45.12	AVG	
11		16.6493	16.80	9.93	26.73	60.00	-33.27	QP	
12		16.6493	9.54	9.93	19.47	50.00	-30.53	AVG	

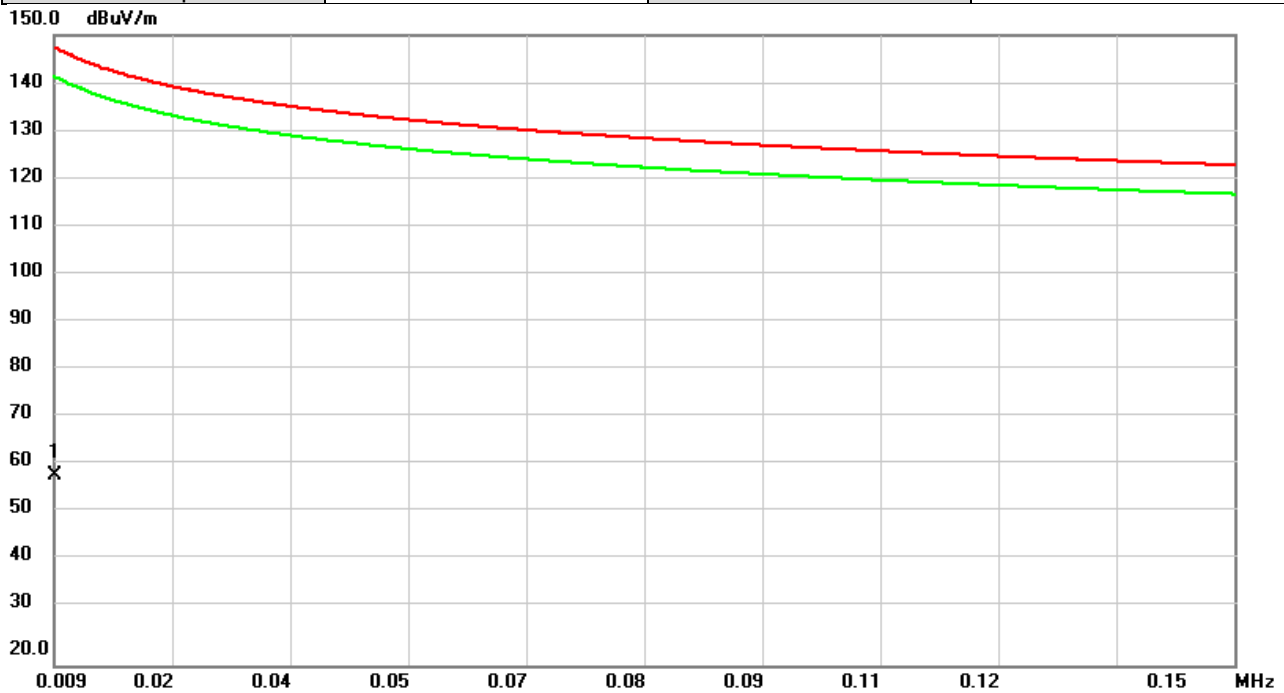
REMARKS:

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

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

APPENDIX B RADIATED EMISSIONS - 9 KHZ TO 30 MHZ

Test Mode	IEEE 802.11b	Test Date	2025/9/18
Test Frequency	2412MHz	Polarization	Vertical
Temp	26°C	Hum.	61%

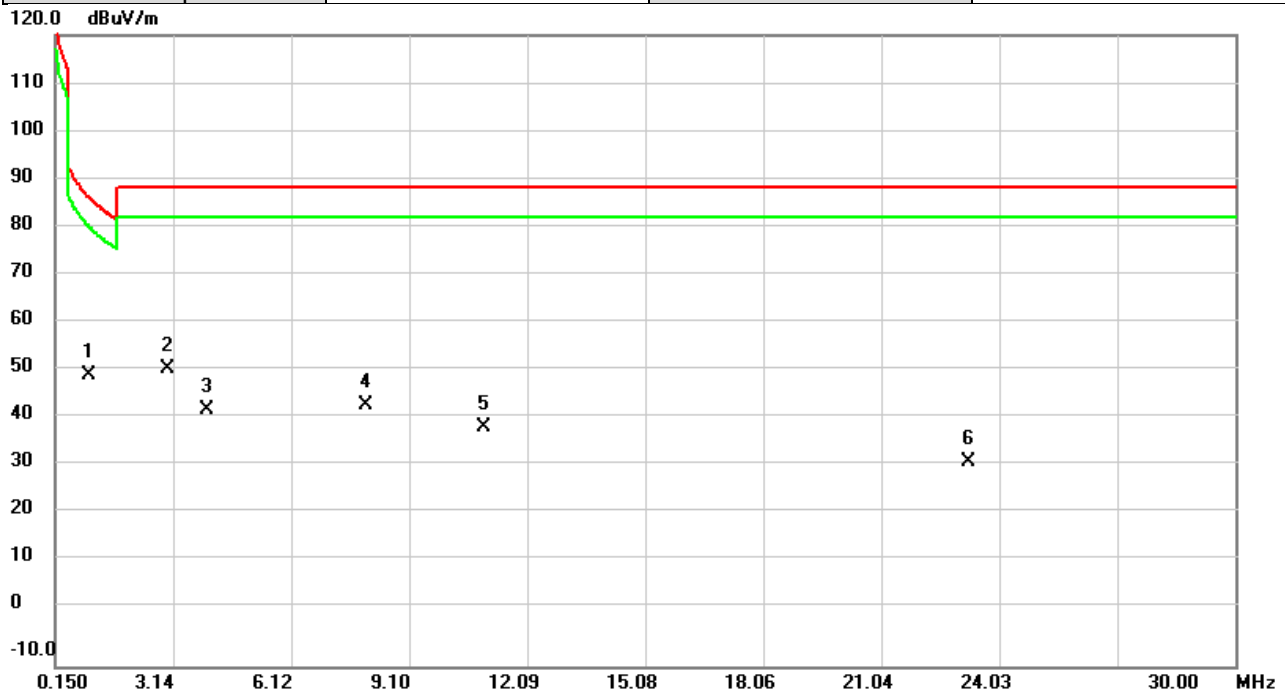


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0090	21.86	37.30	59.16	147.60	-88.44	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/9/18
Test Frequency	2412MHz	Polarization	Vertical
Temp	26°C	Hum.	61%

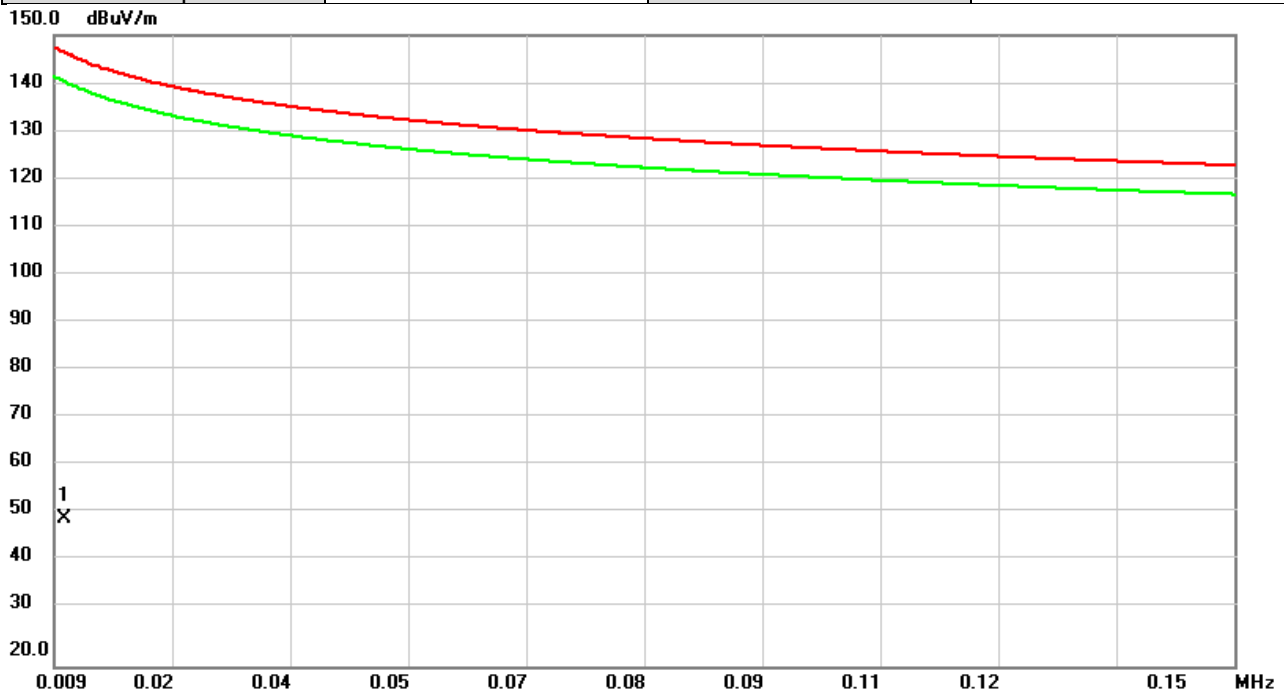


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.9997	49.50	0.31	49.81	86.68	-36.87	QP	
2		2.9996	54.79	-3.55	51.24	88.62	-37.38	QP	
3		3.9996	46.58	-3.80	42.78	88.62	-45.84	QP	
4		8.0004	46.95	-3.14	43.81	88.62	-44.81	QP	
5		10.9994	41.88	-2.62	39.26	88.62	-49.36	QP	
6		23.2568	34.69	-2.72	31.97	88.62	-56.65	QP	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/9/18
Test Frequency	2412MHz	Polarization	Horizontal
Temp	26°C	Hum.	61%

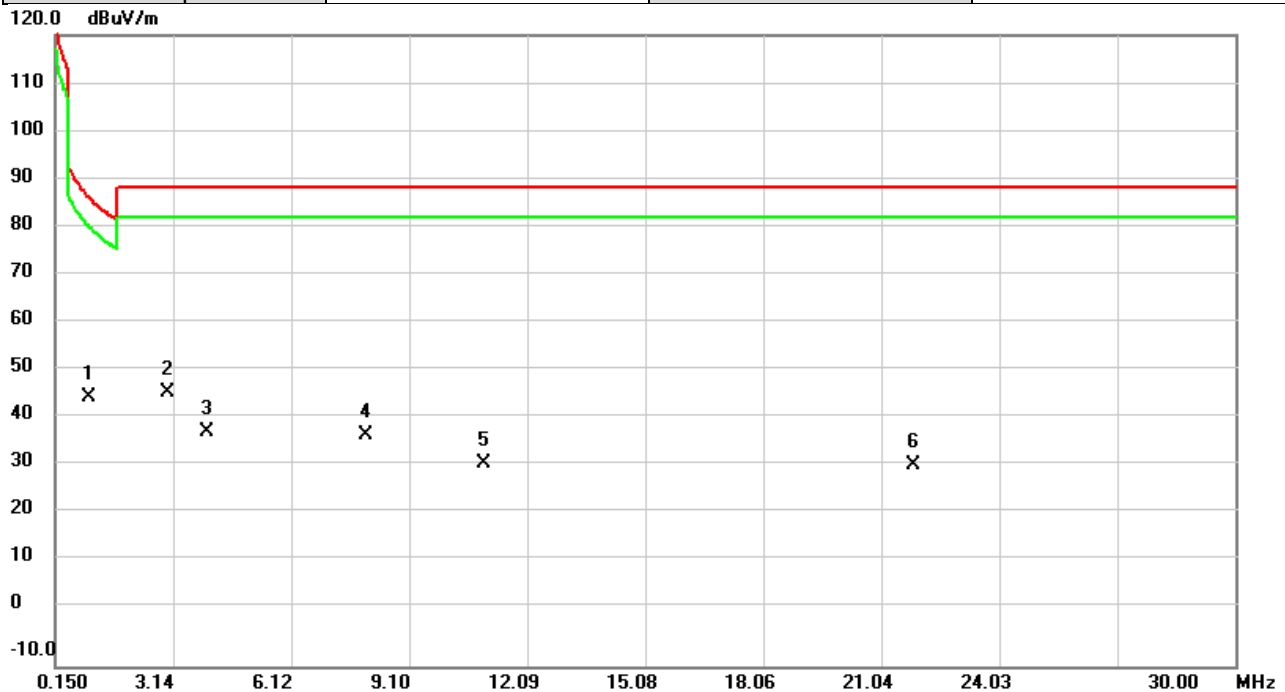


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0103	13.60	36.78	50.38	146.43	-96.05	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/9/18
Test Frequency	2412MHz	Polarization	Horizontal
Temp	26°C	Hum.	61%



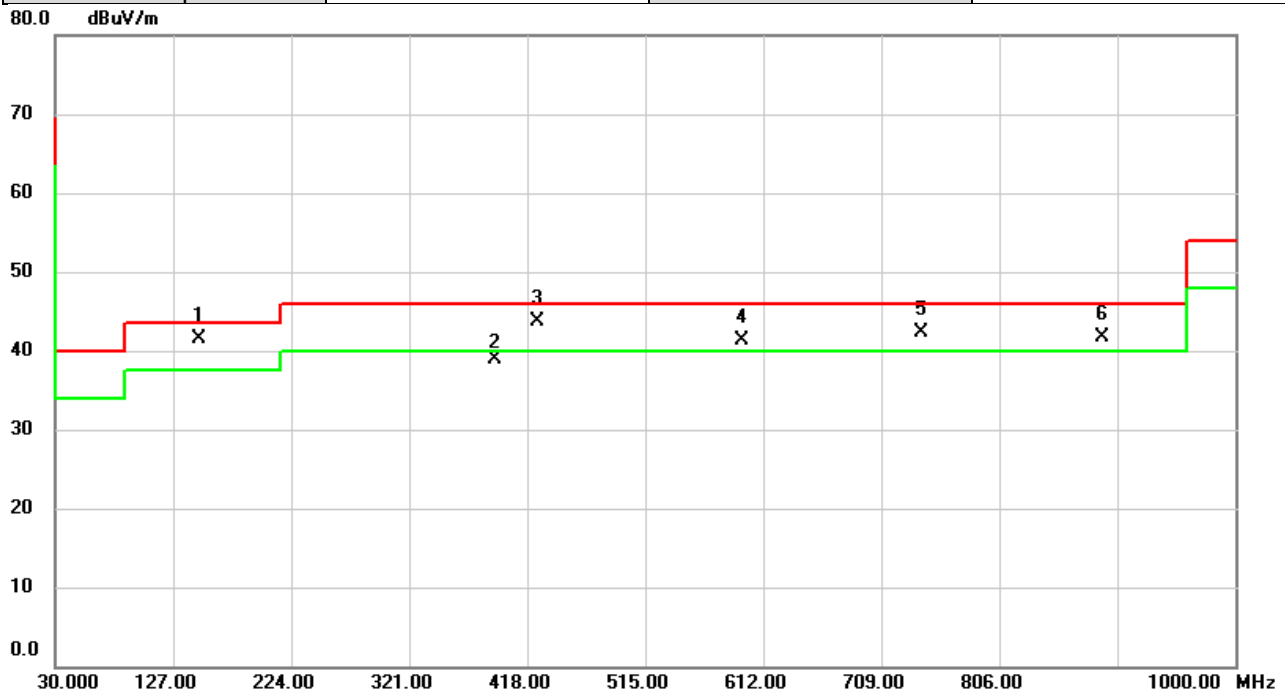
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.9997	45.18	0.31	45.49	86.68	-41.19	QP	
2		2.9996	50.02	-3.55	46.47	88.62	-42.15	QP	
3		3.9996	42.18	-3.80	38.38	88.62	-50.24	QP	
4		8.0004	40.88	-3.14	37.74	88.62	-50.88	QP	
5		11.0004	34.48	-2.62	31.86	88.62	-56.76	QP	
6		21.8778	34.45	-2.99	31.46	88.62	-57.16	QP	

REMARKS:

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

APPENDIX C RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

Test Mode	IEEE 802.11b	Test Date	2025/10/21
Test Frequency	2412MHz	Polarization	Vertical
Temp	23°C	Hum.	51%

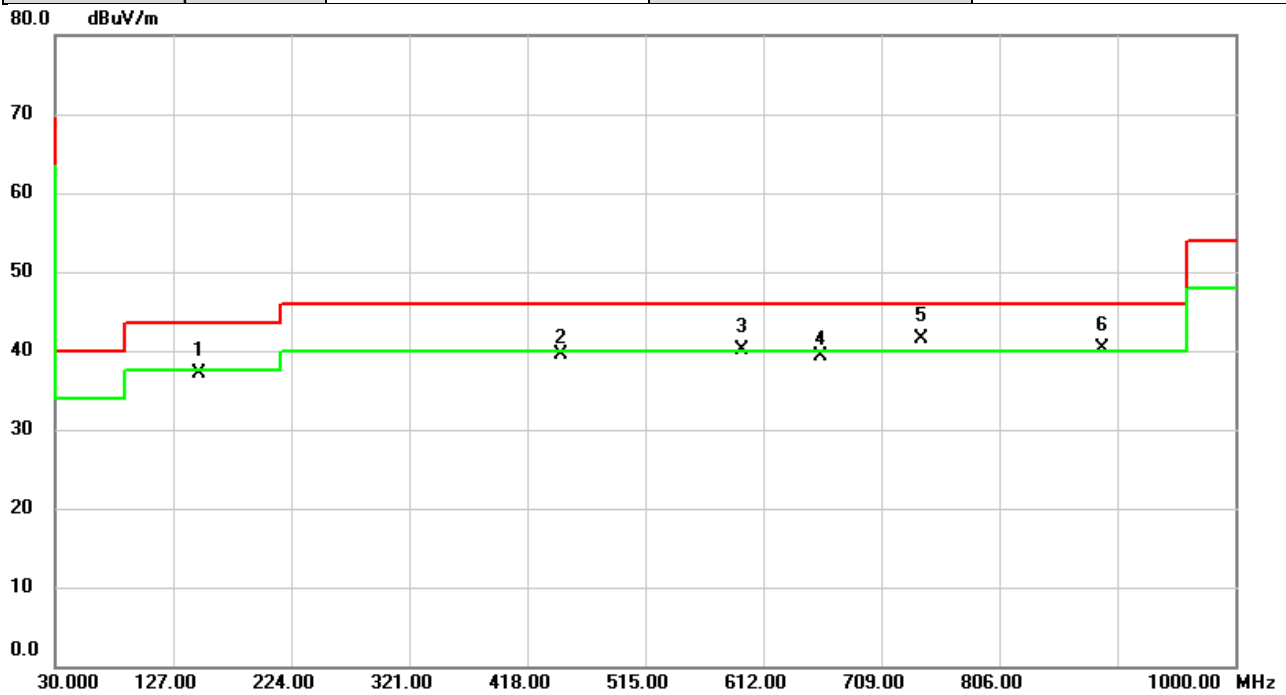


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	148.4693	53.13	-11.61	41.52	43.50	-1.98	QP	
2		391.1957	47.60	-8.79	38.81	46.00	-7.19	peak	
3	!	426.9563	51.29	-7.67	43.62	46.00	-2.38	QP	
4	!	594.0227	45.73	-4.35	41.38	46.00	-4.62	QP	
5	!	742.5297	43.66	-1.28	42.38	46.00	-3.62	QP	
6	!	890.9720	41.13	0.53	41.66	46.00	-4.34	QP	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/10/21
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	51%



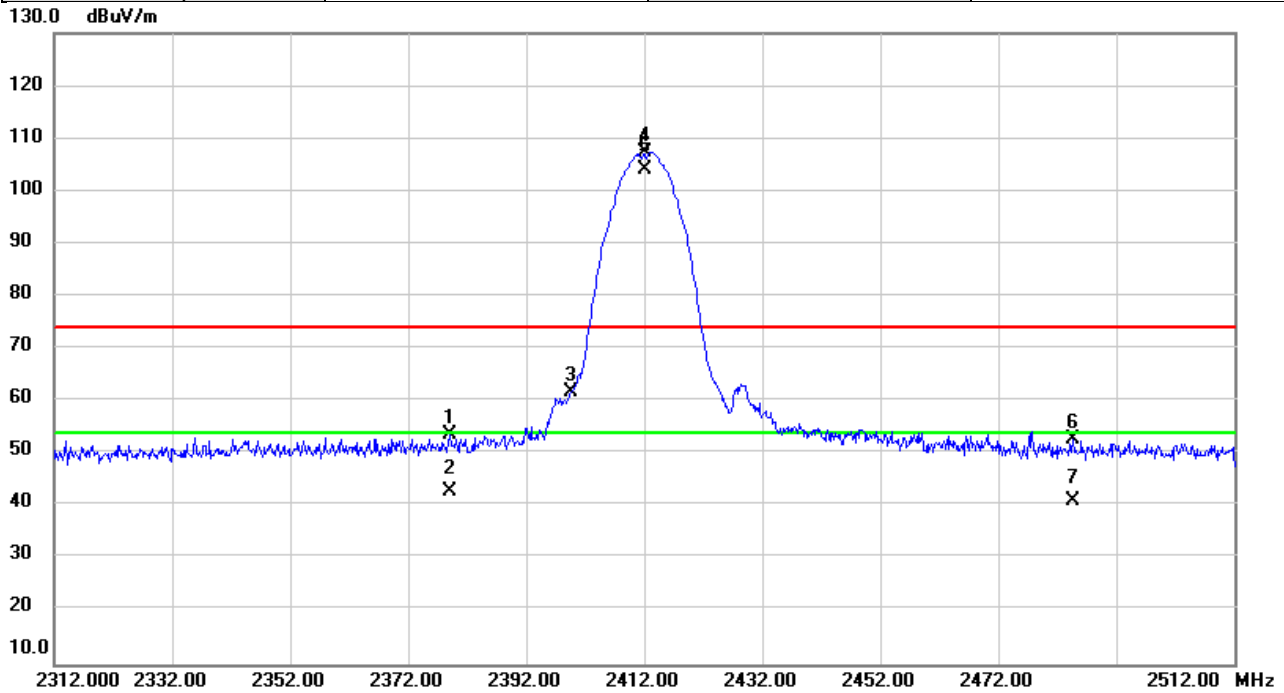
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		148.4693	48.66	-11.61	37.05	43.50	-6.45	QP	
2		445.5803	46.65	-7.06	39.59	46.00	-6.41	peak	
3	!	593.9903	44.40	-4.35	40.05	46.00	-5.95	QP	
4		659.6593	42.26	-3.01	39.25	46.00	-6.75	peak	
5	*	742.4326	42.84	-1.28	41.56	46.00	-4.44	QP	
6	!	891.0043	39.72	0.53	40.25	46.00	-5.75	QP	

REMARKS:

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

APPENDIX D RADIATED EMISSIONS - ABOVE 1 GHZ

Test Mode	IEEE 802.11b	Test Date	2025/9/9
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%



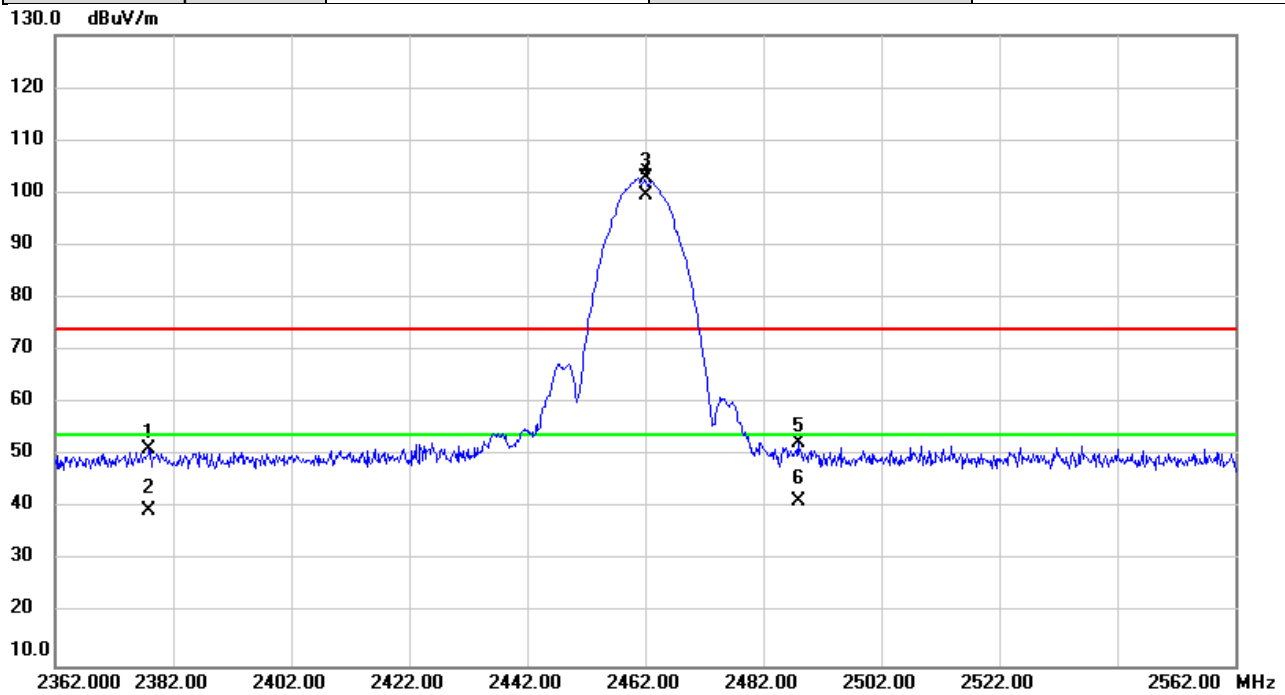
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2379.053	57.79	-4.24	53.55	74.00	-20.45	peak	
2		2379.053	47.16	-4.24	42.92	54.00	-11.08	AVG	
3		2399.707	65.91	-4.20	61.71	74.00	-12.29	peak	No Limit
4	X	2412.000	111.63	-4.19	107.44	74.00	33.44	peak	No Limit
5	*	2412.000	108.37	-4.19	104.18	54.00	50.18	AVG	No Limit
6		2484.653	56.74	-4.06	52.68	74.00	-21.32	peak	
7		2484.653	45.05	-4.06	40.99	54.00	-13.01	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11b	Test Date	2025/9/9
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

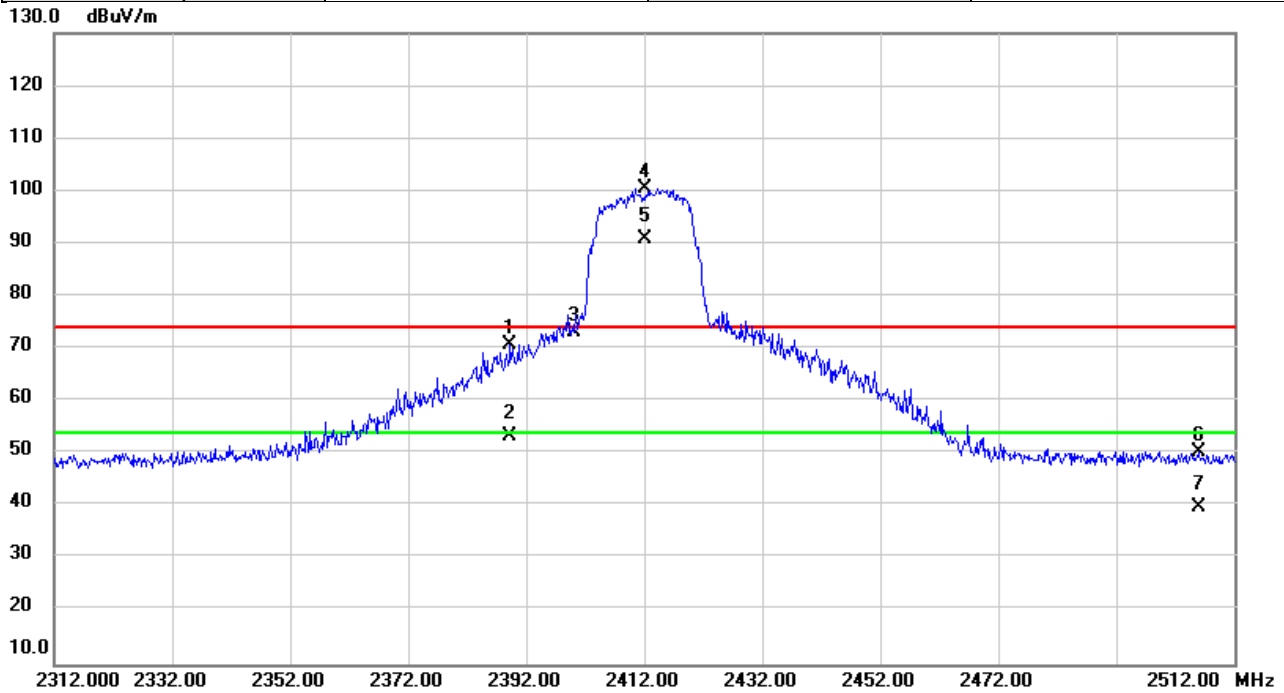


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2377.813	55.42	-4.24	51.18	74.00	-22.82	peak	
2		2377.813	43.67	-4.24	39.43	54.00	-14.57	AVG	
3	X	2462.000	106.90	-4.10	102.80	74.00	28.80	peak	No Limit
4	*	2462.000	103.67	-4.10	99.57	54.00	45.57	AVG	No Limit
5		2487.887	56.37	-4.05	52.32	74.00	-21.68	peak	
6		2487.887	45.43	-4.05	41.38	54.00	-12.62	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2025/9/9
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%



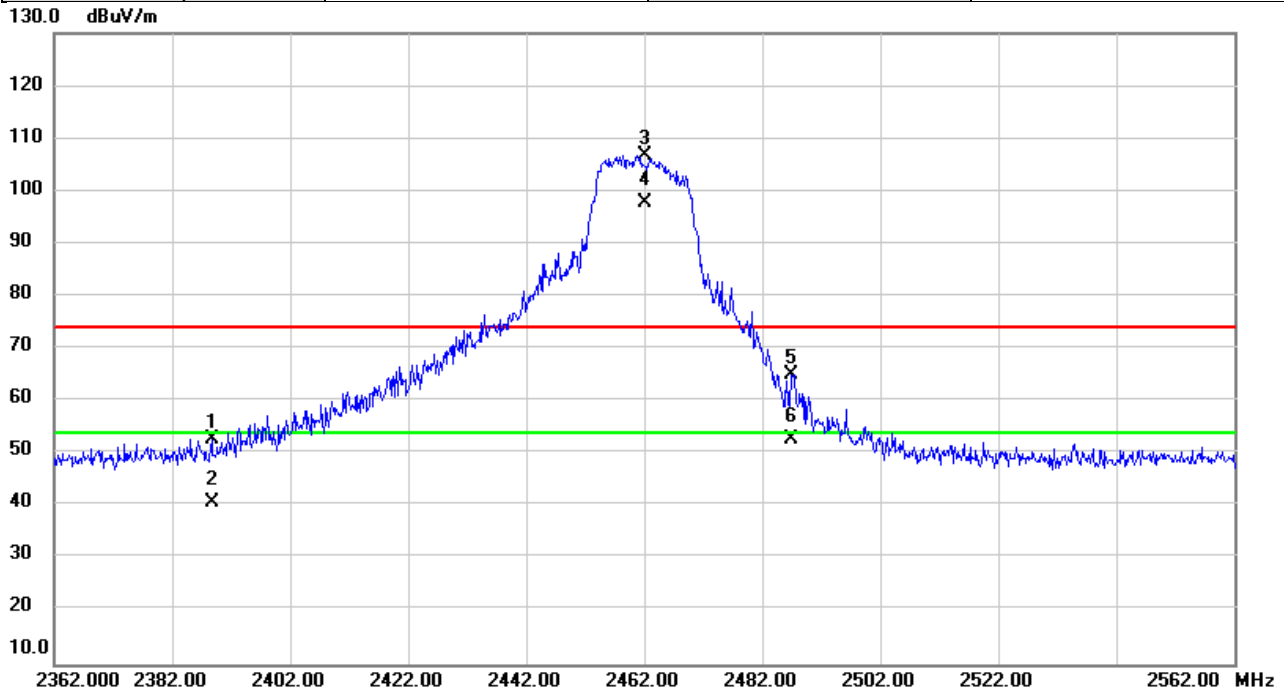
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2389.300	74.88	-4.22	70.66	74.00	-3.34	peak	
2		2389.300	57.51	-4.22	53.29	54.00	-0.71	AVG	
3		2400.000	77.47	-4.20	73.27	74.00	-0.73	peak	No Limit
4	X	2412.000	104.59	-4.19	100.40	74.00	26.40	peak	No Limit
5	*	2412.000	95.18	-4.19	90.99	54.00	36.99	AVG	No Limit
6		2505.987	54.43	-4.00	50.43	74.00	-23.57	peak	
7		2505.987	43.82	-4.00	39.82	54.00	-14.18	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11g	Test Date	2025/9/9
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

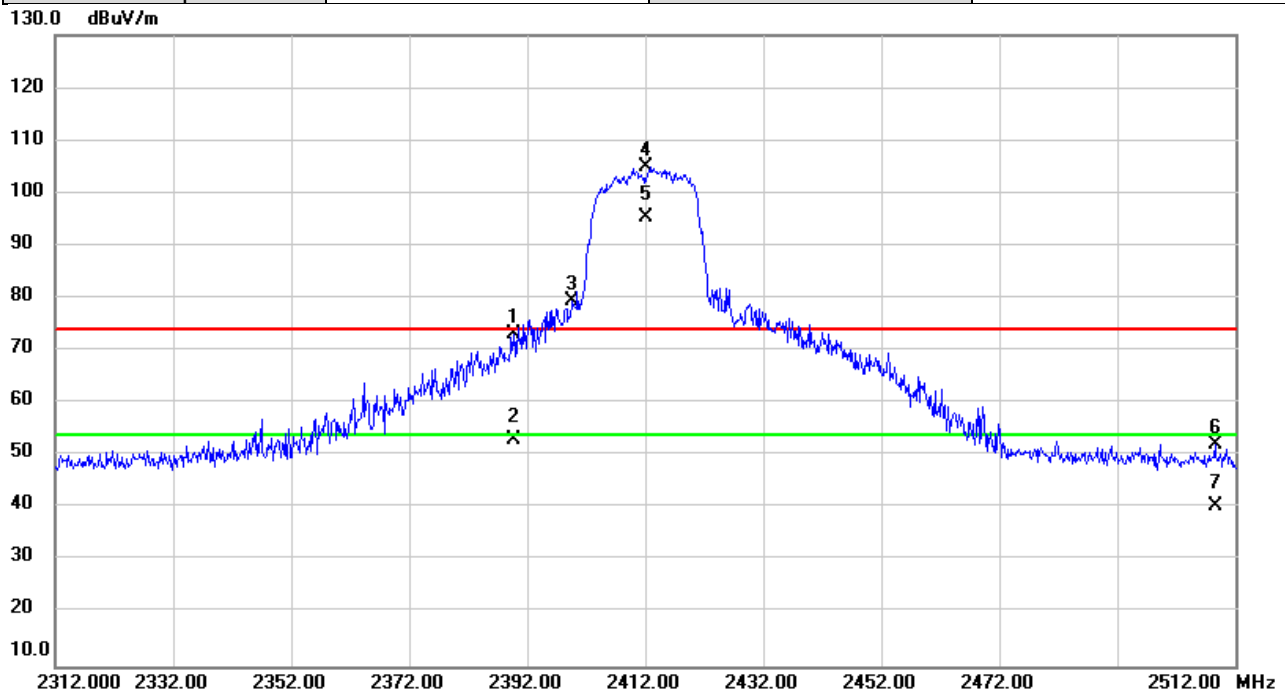


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2388.733	56.93	-4.22	52.71	74.00	-21.29	peak	
2		2388.733	44.92	-4.22	40.70	54.00	-13.30	AVG	
3	X	2462.000	110.90	-4.10	106.80	74.00	32.80	peak	No Limit
4	*	2462.000	101.72	-4.10	97.62	54.00	43.62	AVG	No Limit
5		2486.987	69.20	-4.06	65.14	74.00	-8.86	peak	
6		2486.987	56.70	-4.06	52.64	54.00	-1.36	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2025-9-9
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%



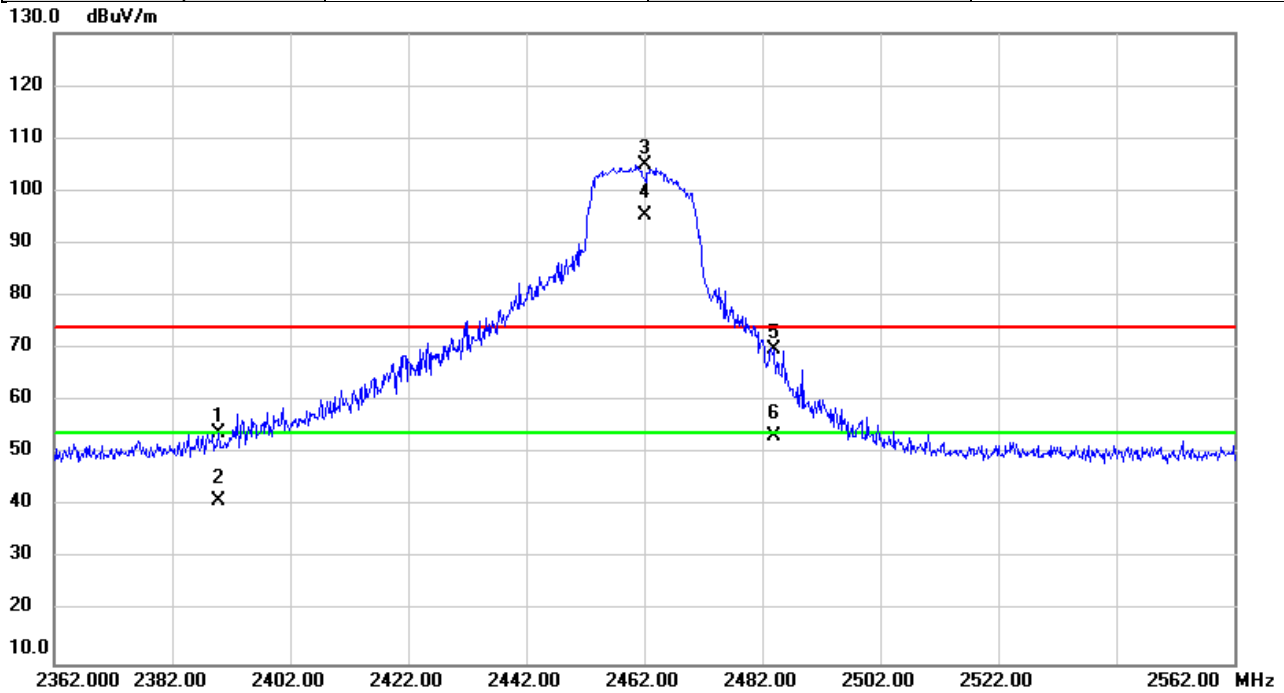
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2389.653	77.48	-4.22	73.26	74.00	-0.74	peak	
2		2389.653	57.32	-4.22	53.10	54.00	-0.90	AVG	
3	X	2399.607	83.66	-4.20	79.46	74.00	5.46	peak	No Limit
4	X	2412.000	109.19	-4.19	105.00	74.00	31.00	peak	No Limit
5	*	2412.000	99.49	-4.19	95.30	54.00	41.30	AVG	No Limit
6		2508.547	56.03	-3.99	52.04	74.00	-21.96	peak	
7		2508.547	44.32	-3.99	40.33	54.00	-13.67	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/9/10
Test Frequency	2462MHz	Polarization	Horizontal
Temp	28°C	Hum.	65%

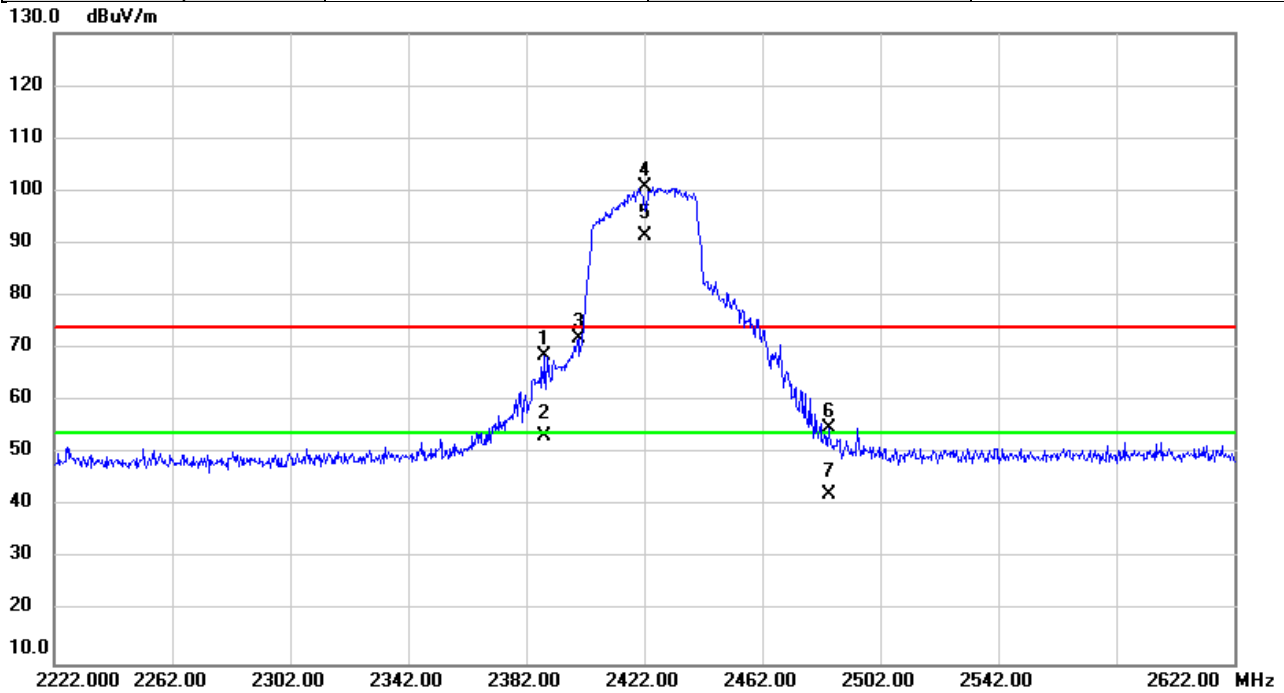


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2389.920	58.30	-4.22	54.08	74.00	-19.92	peak	
2		2389.920	45.19	-4.22	40.97	54.00	-13.03	AVG	
3	X	2462.000	109.18	-4.10	105.08	74.00	31.08	peak	No Limit
4	*	2462.000	99.50	-4.10	95.40	54.00	41.40	AVG	No Limit
5		2483.927	73.95	-4.05	69.90	74.00	-4.10	peak	
6		2483.927	57.27	-4.05	53.22	54.00	-0.78	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2025/9/10
Test Frequency	2422MHz	Polarization	Horizontal
Temp	28°C	Hum.	65%



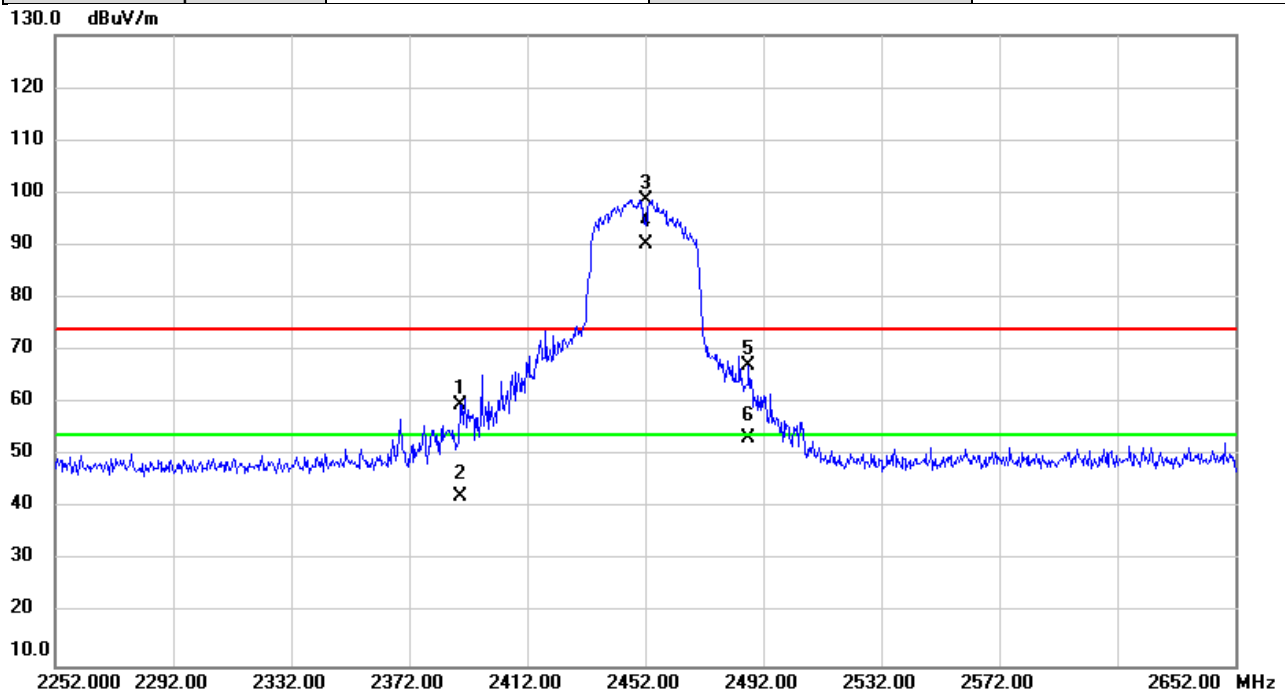
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2388.280	72.96	-4.22	68.74	74.00	-5.26	peak	
2		2388.280	57.48	-4.22	53.26	54.00	-0.74	AVG	
3		2399.653	76.08	-4.20	71.88	74.00	-2.12	peak	No Limit
4	X	2422.000	104.92	-4.18	100.74	74.00	26.74	peak	No Limit
5	*	2422.000	95.75	-4.18	91.57	54.00	37.57	AVG	No Limit
6		2484.560	59.00	-4.06	54.94	74.00	-19.06	peak	
7		2484.560	46.20	-4.06	42.14	54.00	-11.86	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2025/9/10
Test Frequency	2452MHz	Polarization	Horizontal
Temp	28°C	Hum.	65%

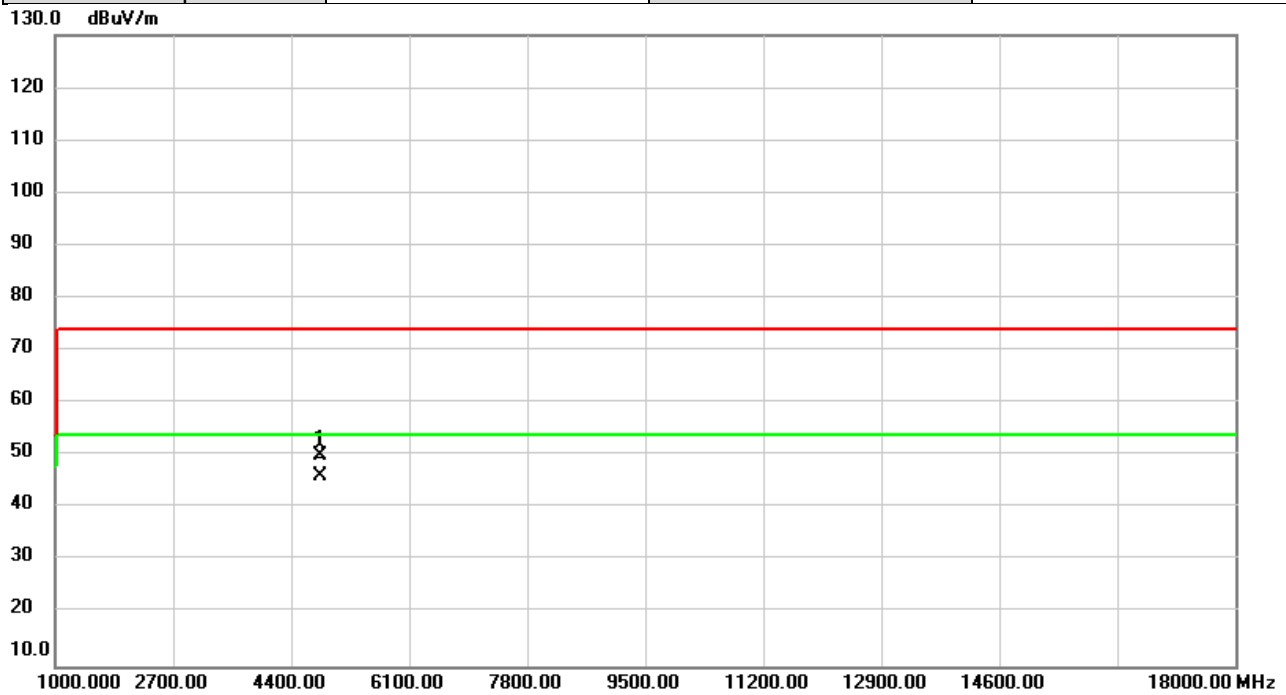


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2389.187	63.81	-4.22	59.59	74.00	-14.41	peak	
2		2389.187	46.52	-4.22	42.30	54.00	-11.70	AVG	
3	X	2452.000	102.85	-4.11	98.74	74.00	24.74	peak	No Limit
4	*	2452.000	94.46	-4.11	90.35	54.00	36.35	AVG	No Limit
5		2486.960	71.19	-4.06	67.13	74.00	-6.87	peak	
6		2486.960	57.52	-4.06	53.46	54.00	-0.54	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/9/10
Test Frequency	2412MHz	Polarization	Vertical
Temp	28°C	Hum.	65%

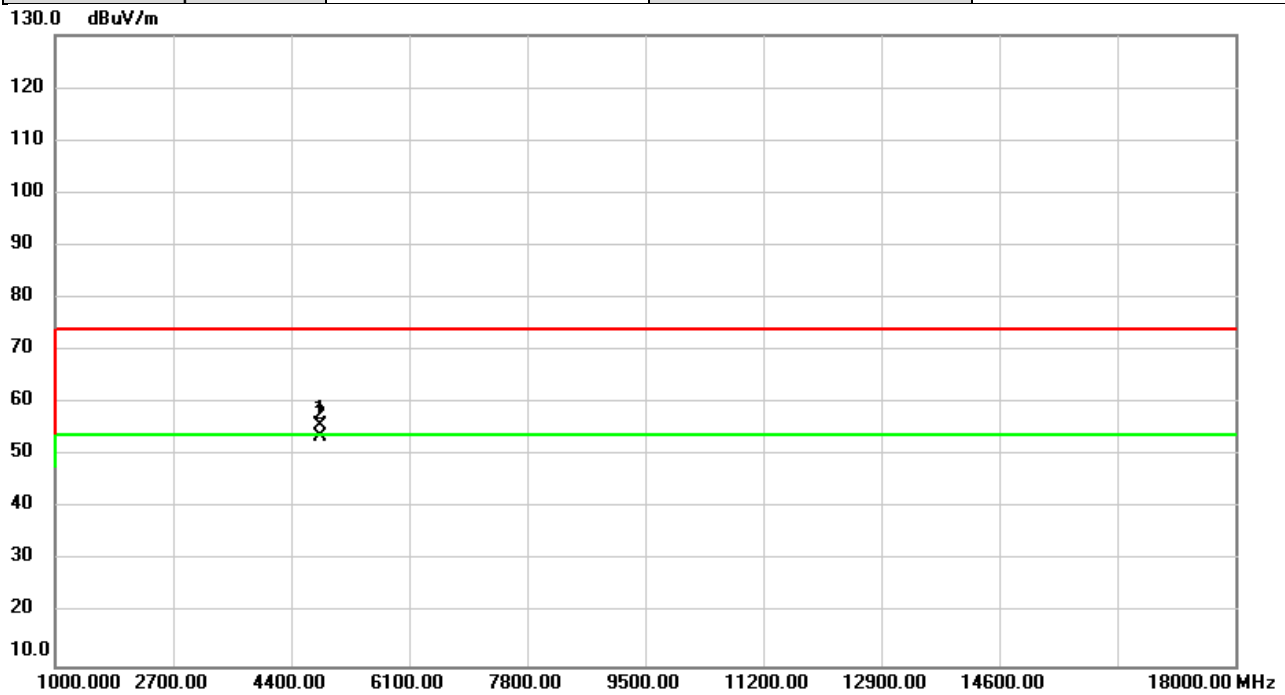


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	47.86	2.33	50.19	74.00	-23.81	peak	
2	*	4824.000	43.74	2.33	46.07	54.00	-7.93	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/9/10
Test Frequency	2412MHz	Polarization	Horizontal
Temp	28°C	Hum.	65%

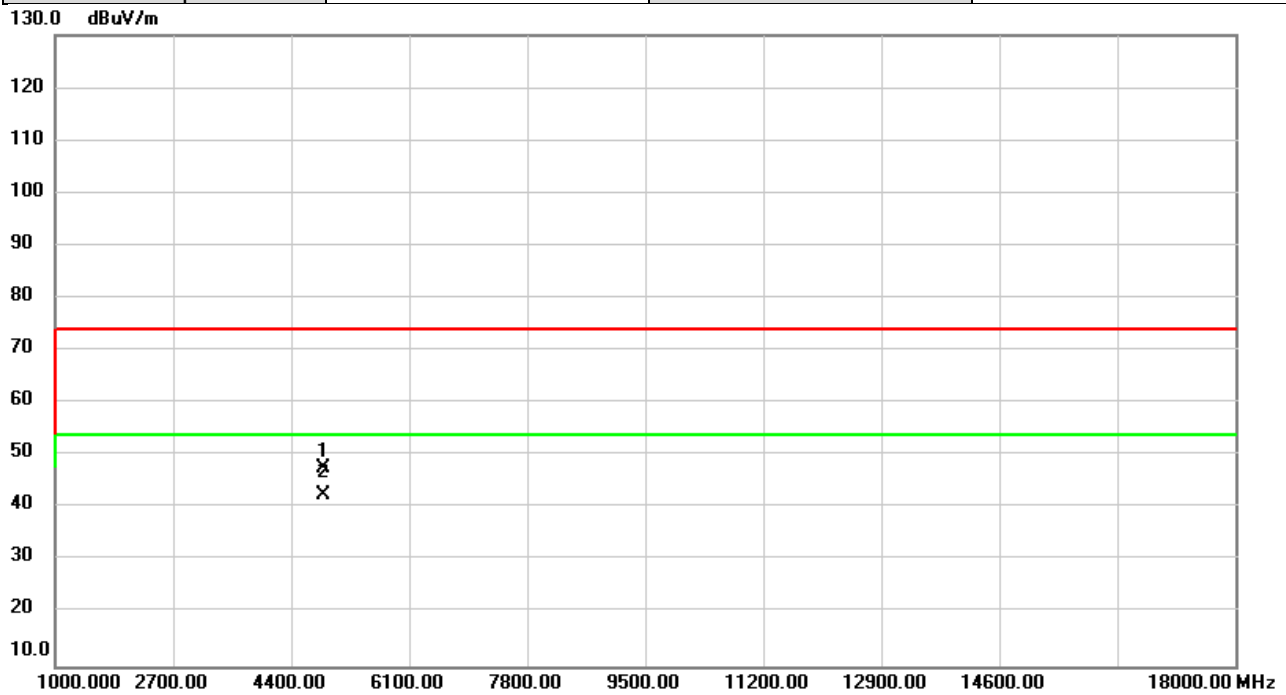


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	53.51	2.33	55.84	74.00	-18.16	peak	
2	*	4824.000	51.44	2.33	53.77	54.00	-0.23	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/9/10
Test Frequency	2437MHz	Polarization	Vertical
Temp	28°C	Hum.	65%

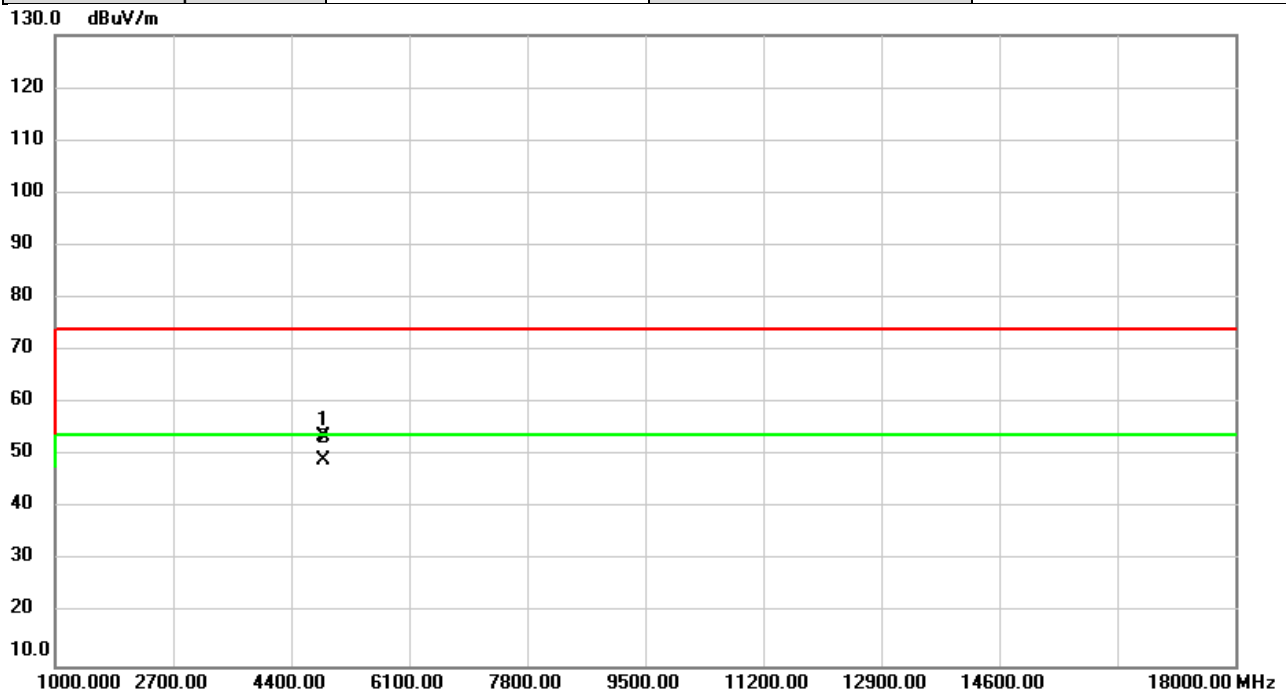


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	45.19	2.47	47.66	74.00	-26.34	peak	
2	*	4874.000	40.09	2.47	42.56	54.00	-11.44	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/9/10
Test Frequency	2437MHz	Polarization	Horizontal
Temp	28°C	Hum.	65%

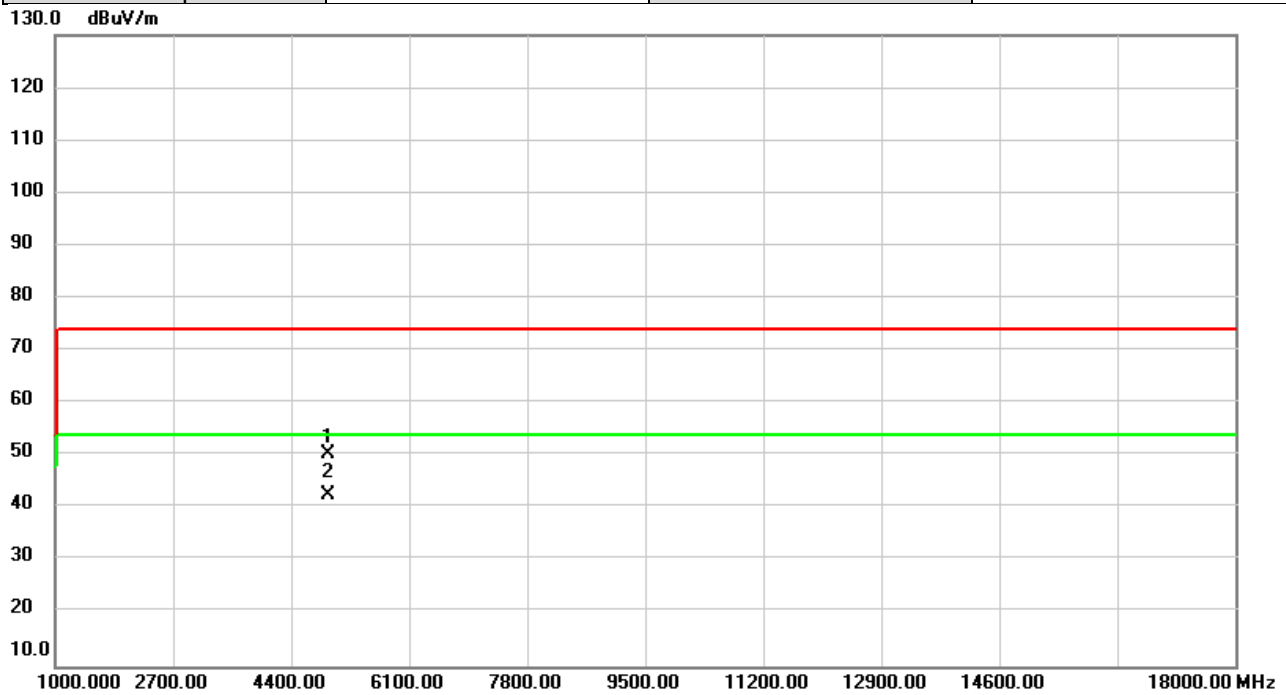


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	51.31	2.47	53.78	74.00	-20.22	peak	
2	*	4874.000	46.83	2.47	49.30	54.00	-4.70	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/9/10
Test Frequency	2462MHz	Polarization	Vertical
Temp	28°C	Hum.	65%

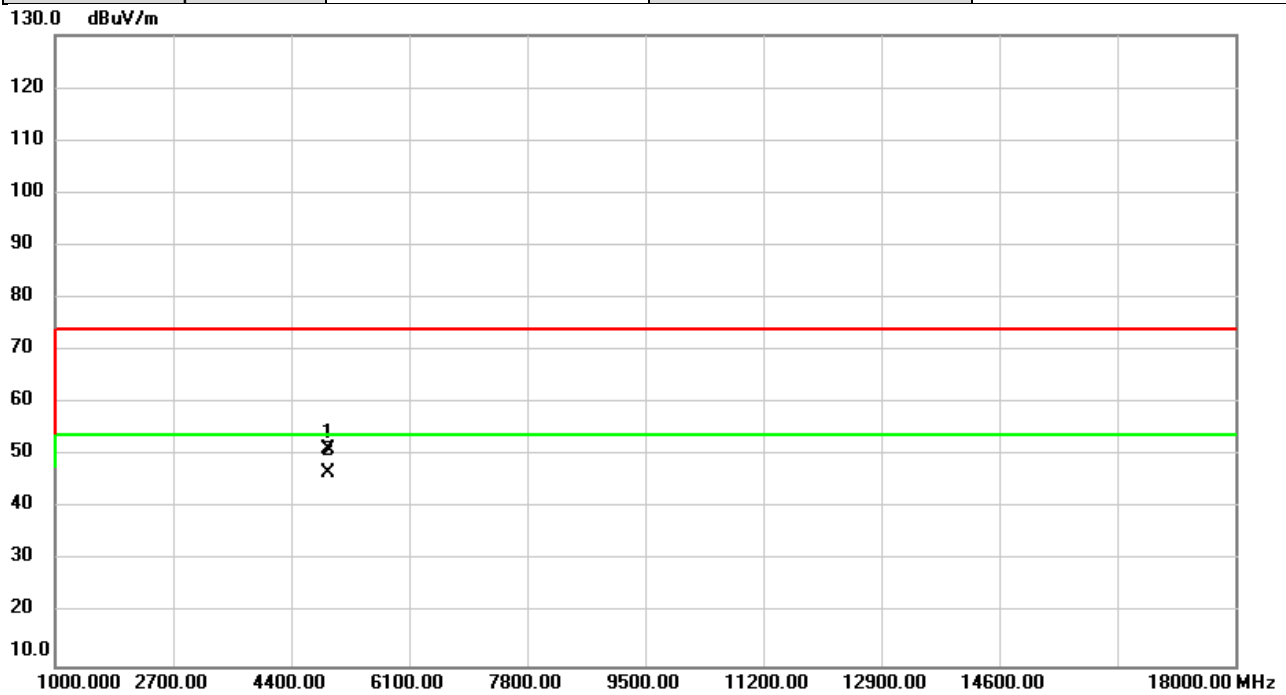


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	47.66	2.61	50.27	74.00	-23.73	peak	
2	*	4924.000	39.94	2.61	42.55	54.00	-11.45	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/9/10
Test Frequency	2462MHz	Polarization	Horizontal
Temp	28°C	Hum.	65%

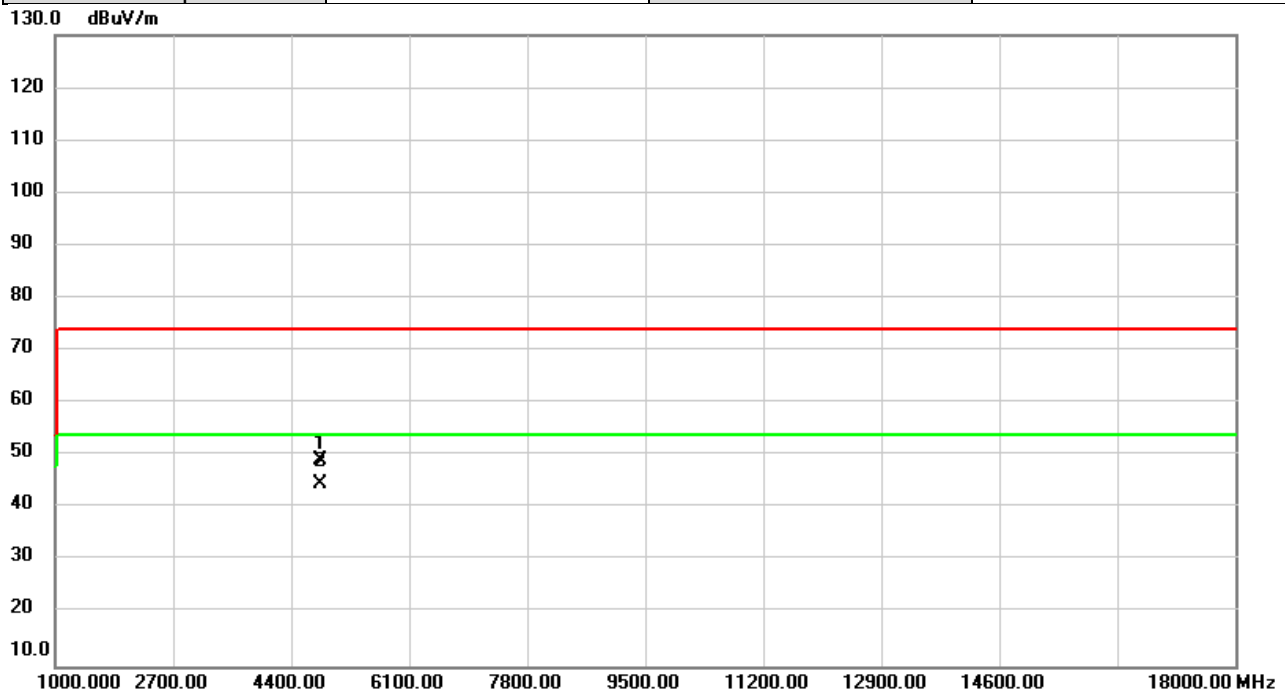


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	48.63	2.61	51.24	74.00	-22.76	peak	
2	*	4924.000	44.24	2.61	46.85	54.00	-7.15	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2025/9/10
Test Frequency	2412MHz	Polarization	Vertical
Temp	28°C	Hum.	65%

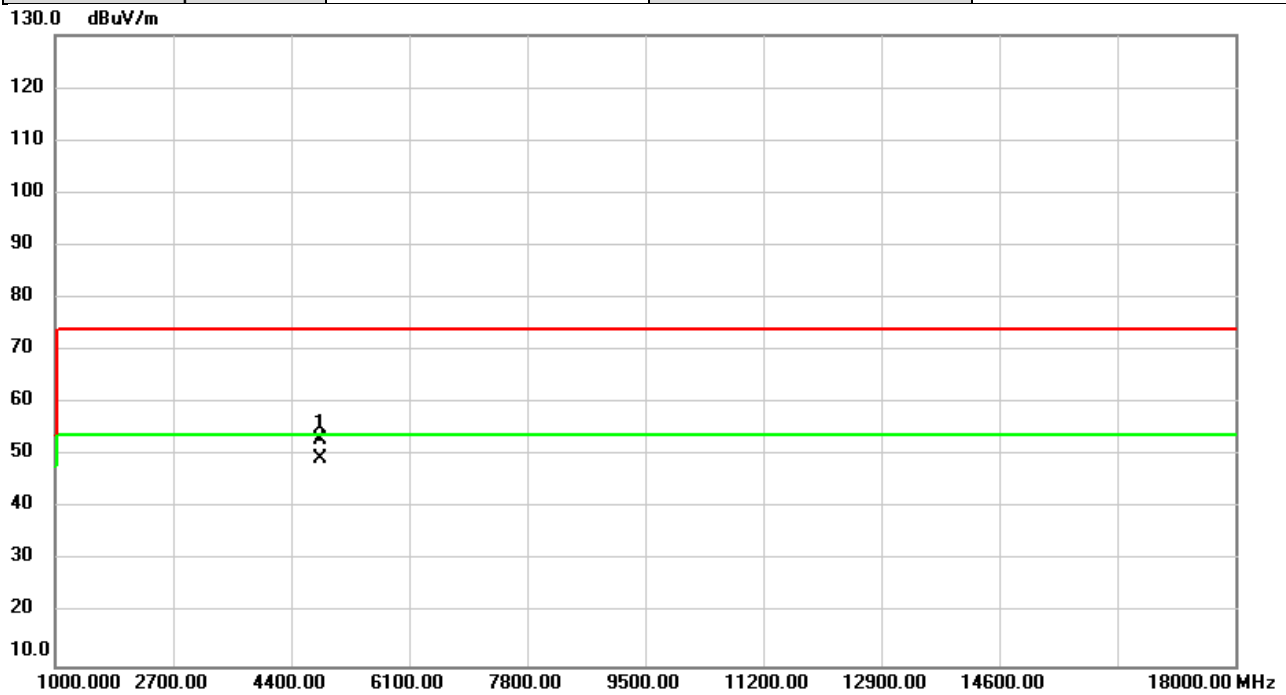


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	46.94	2.33	49.27	74.00	-24.73	peak	
2	*	4824.000	42.29	2.33	44.62	54.00	-9.38	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2025/9/10
Test Frequency	2412MHz	Polarization	Horizontal
Temp	28°C	Hum.	65%

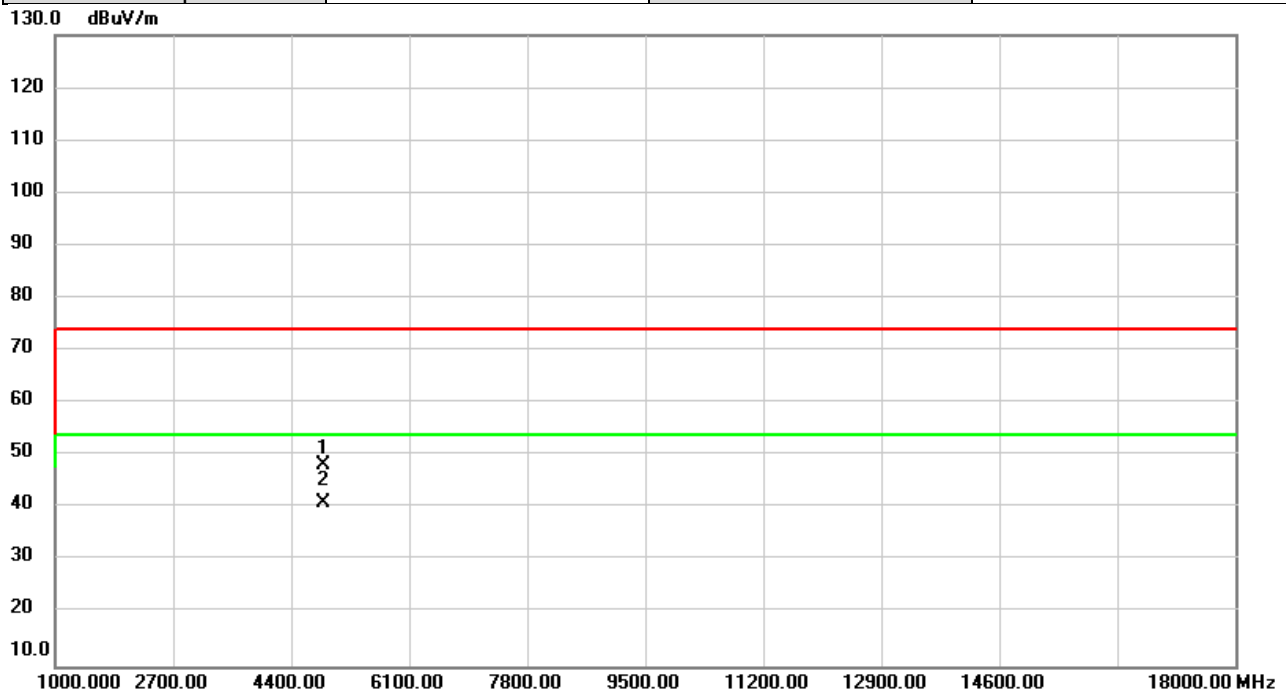


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	50.62	2.33	52.95	74.00	-21.05	peak	
2	*	4824.000	47.12	2.33	49.45	54.00	-4.55	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2025/9/10
Test Frequency	2437MHz	Polarization	Vertical
Temp	28°C	Hum.	65%

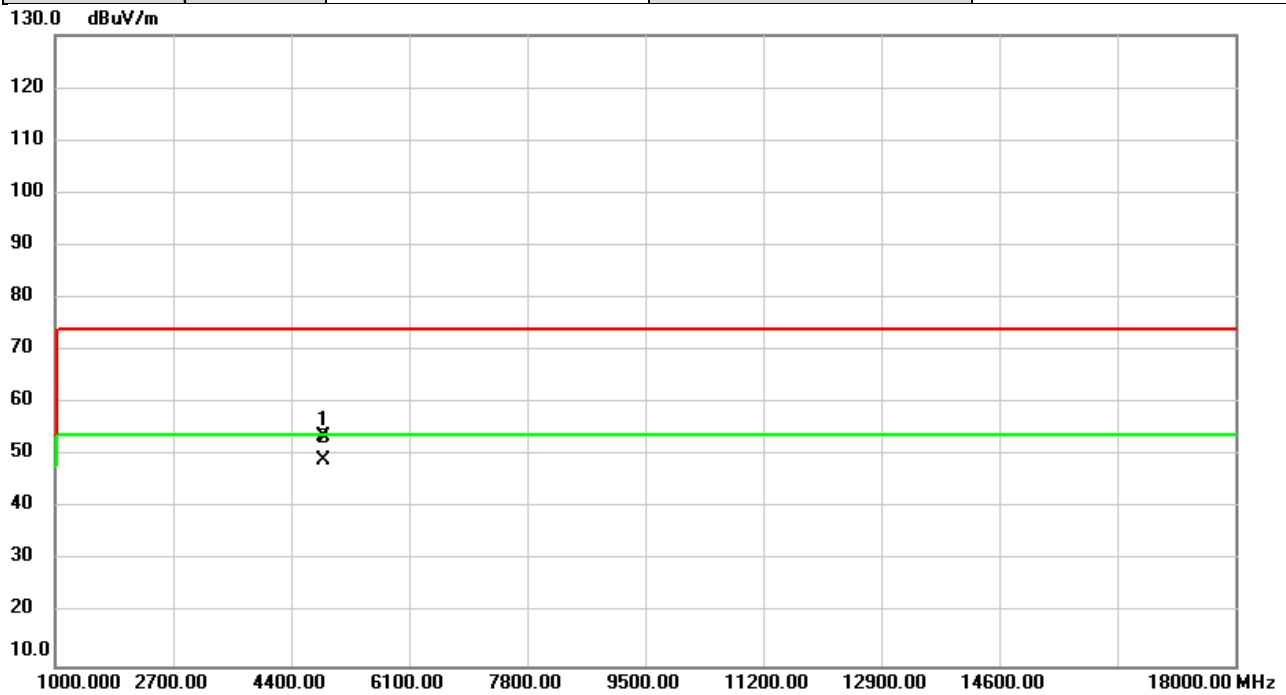


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	45.80	2.47	48.27	74.00	-25.73	peak	
2	*	4874.000	38.55	2.47	41.02	54.00	-12.98	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2025/9/10
Test Frequency	2437MHz	Polarization	Horizontal
Temp	28°C	Hum.	65%

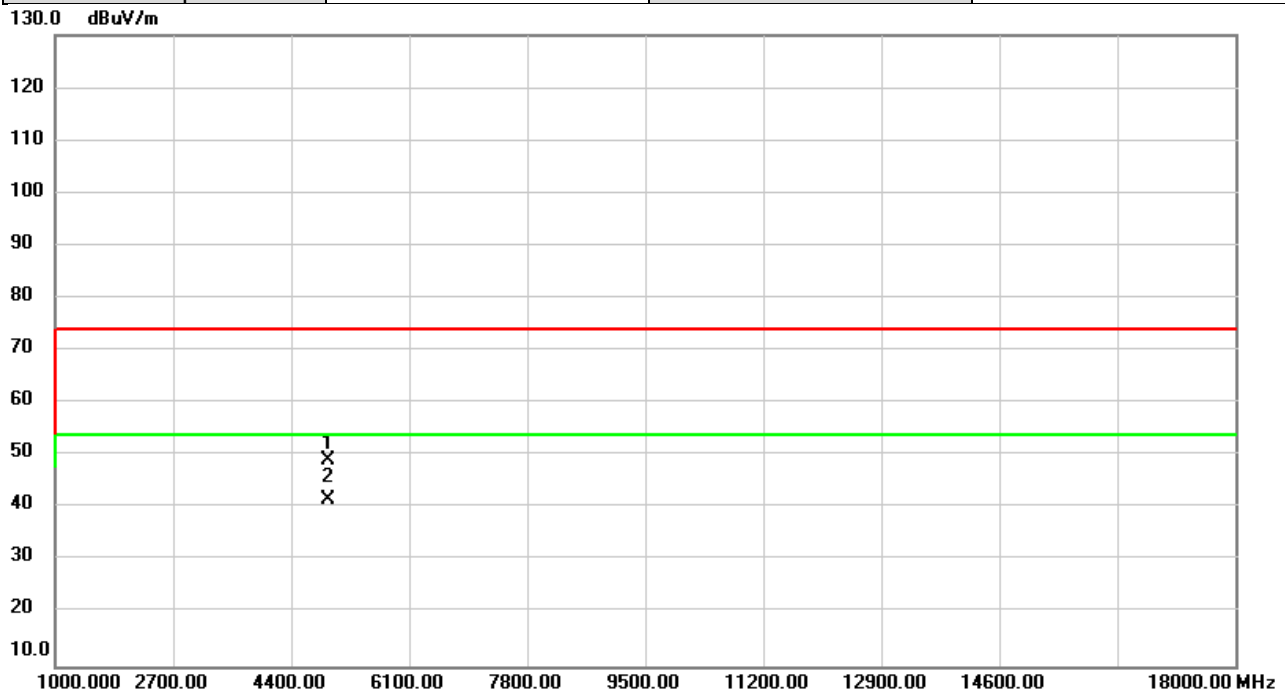


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	51.30	2.47	53.77	74.00	-20.23	peak	
2	*	4874.000	46.79	2.47	49.26	54.00	-4.74	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2025/9/10
Test Frequency	2462MHz	Polarization	Vertical
Temp	28°C	Hum.	65%

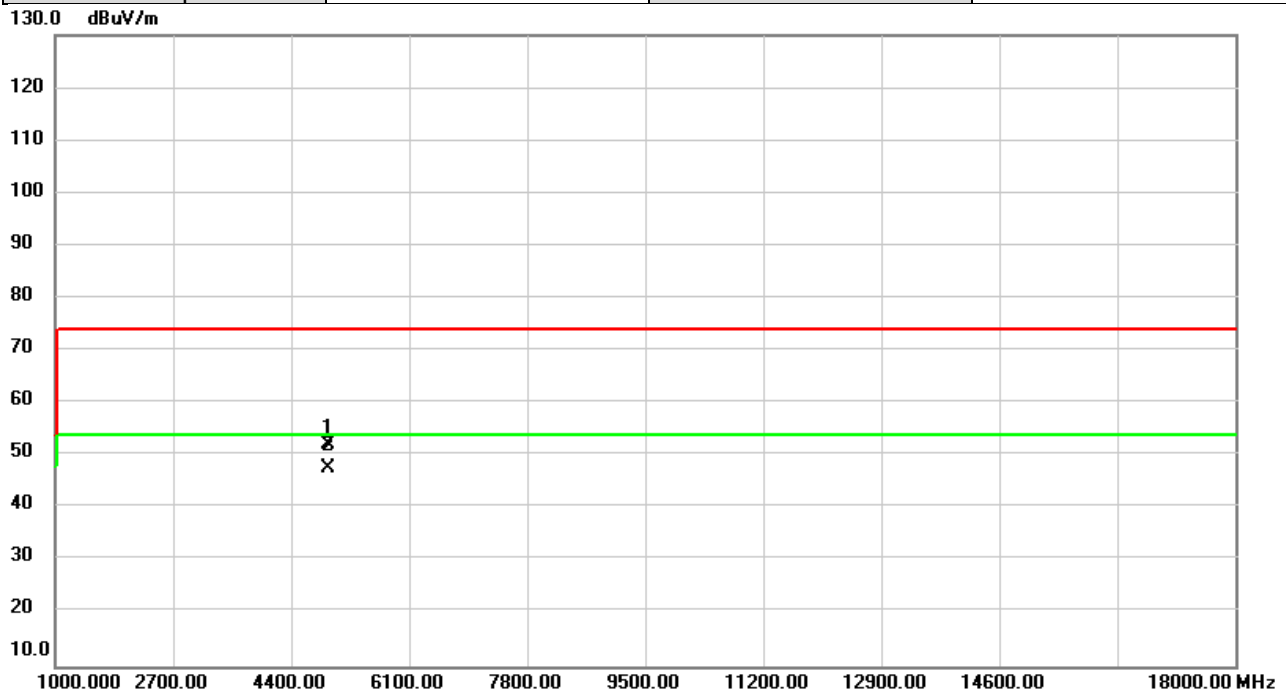


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	46.46	2.61	49.07	74.00	-24.93	peak	
2	*	4924.000	39.02	2.61	41.63	54.00	-12.37	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2025/9/10
Test Frequency	2462MHz	Polarization	Horizontal
Temp	28°C	Hum.	65%

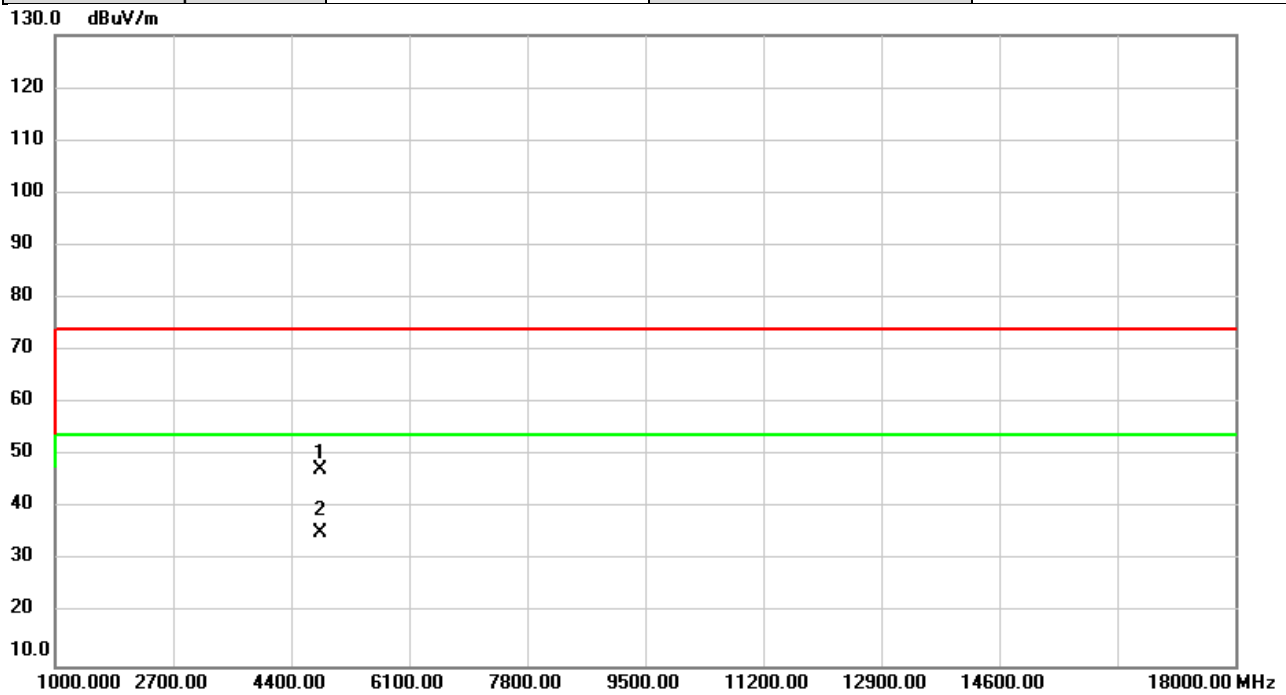


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	49.49	2.61	52.10	74.00	-21.90	peak	
2	*	4924.000	44.93	2.61	47.54	54.00	-6.46	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/9/10
Test Frequency	2412MHz	Polarization	Vertical
Temp	28°C	Hum.	65%

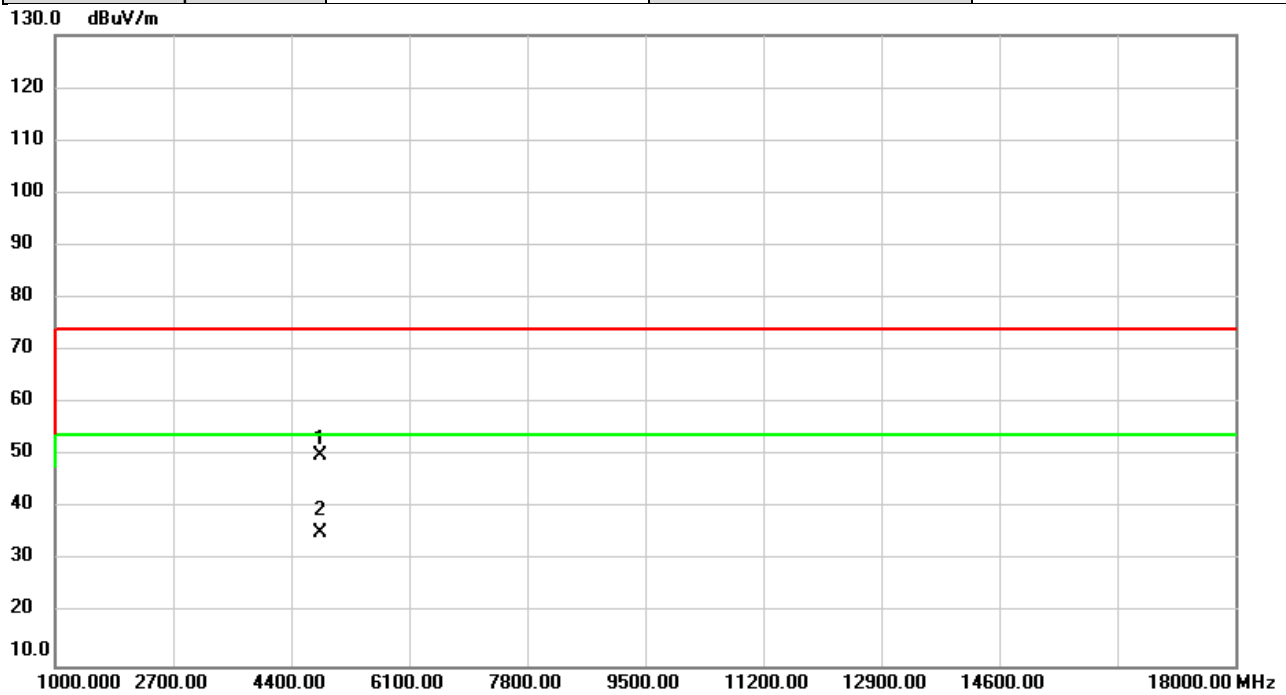


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	44.96	2.33	47.29	74.00	-26.71	peak	
2	*	4824.000	32.91	2.33	35.24	54.00	-18.76	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/9/10
Test Frequency	2412MHz	Polarization	Horizontal
Temp	28°C	Hum.	65%

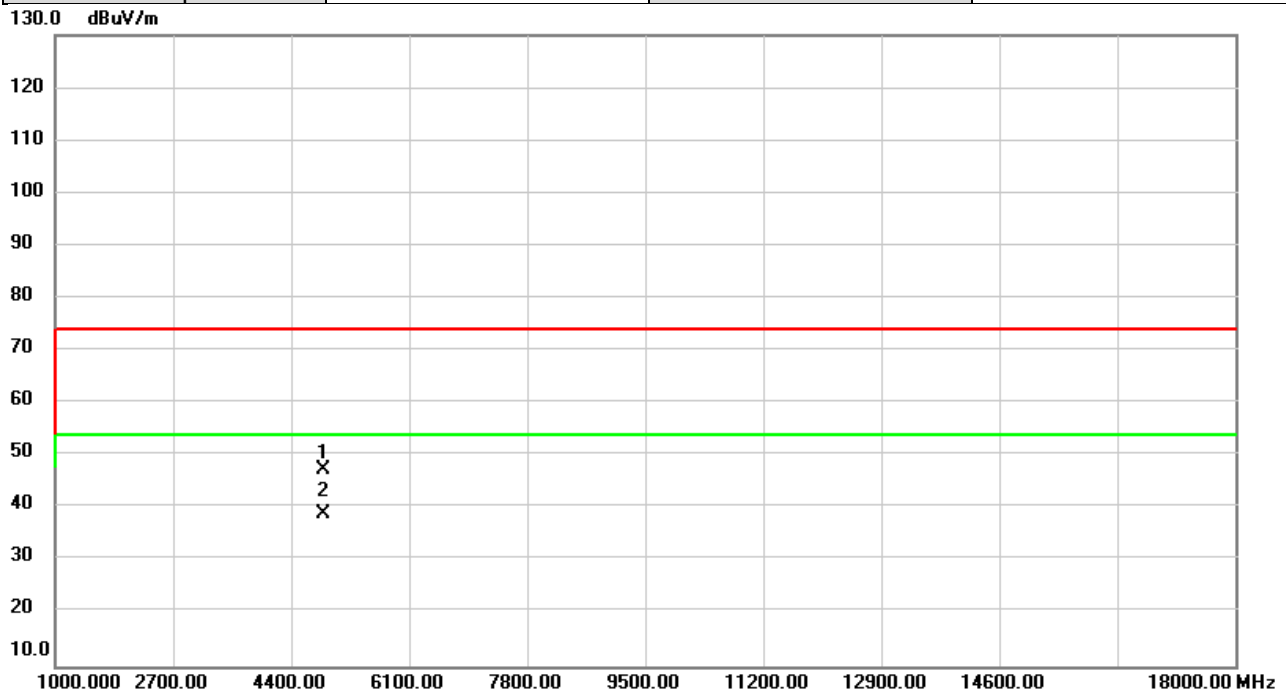


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	47.73	2.33	50.06	74.00	-23.94	peak	
2	*	4824.000	32.93	2.33	35.26	54.00	-18.74	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/9/10
Test Frequency	2437MHz	Polarization	Vertical
Temp	28°C	Hum.	65%

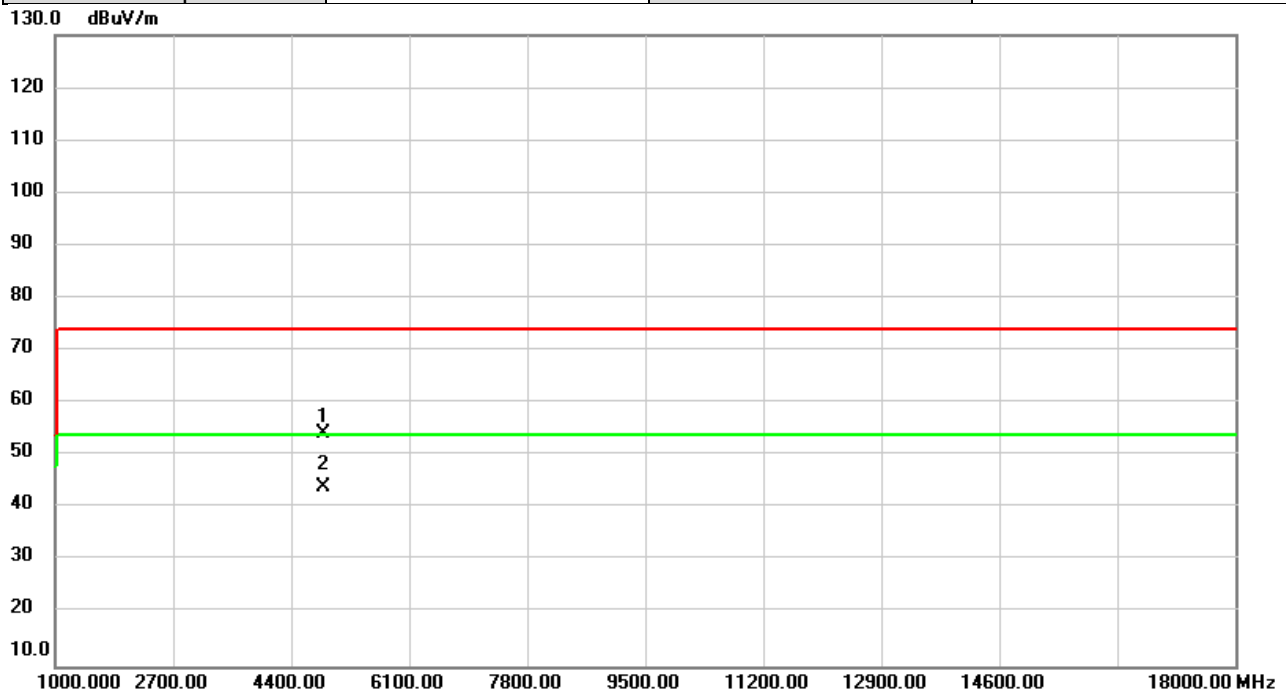


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	44.75	2.47	47.22	74.00	-26.78	peak	
2	*	4874.000	36.62	2.47	39.09	54.00	-14.91	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/9/10
Test Frequency	2437MHz	Polarization	Horizontal
Temp	28°C	Hum.	65%

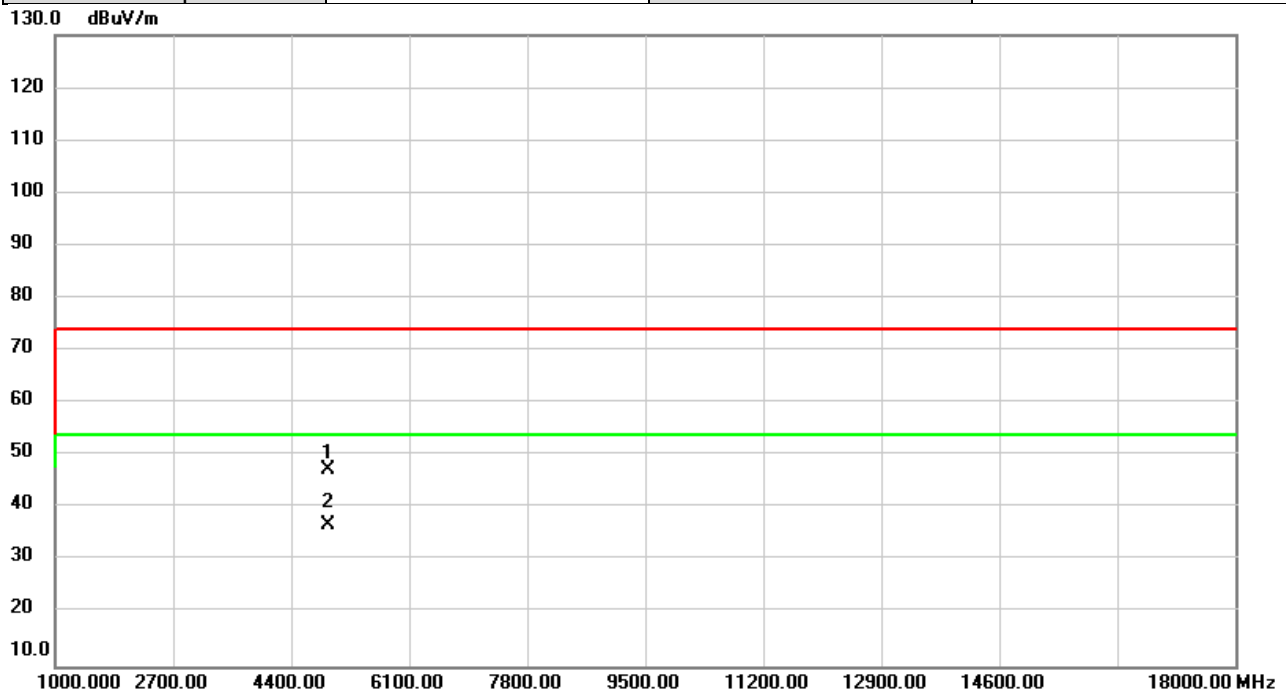


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	51.66	2.47	54.13	74.00	-19.87	peak	
2	*	4874.000	41.53	2.47	44.00	54.00	-10.00	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/9/10
Test Frequency	2462MHz	Polarization	Vertical
Temp	28°C	Hum.	65%

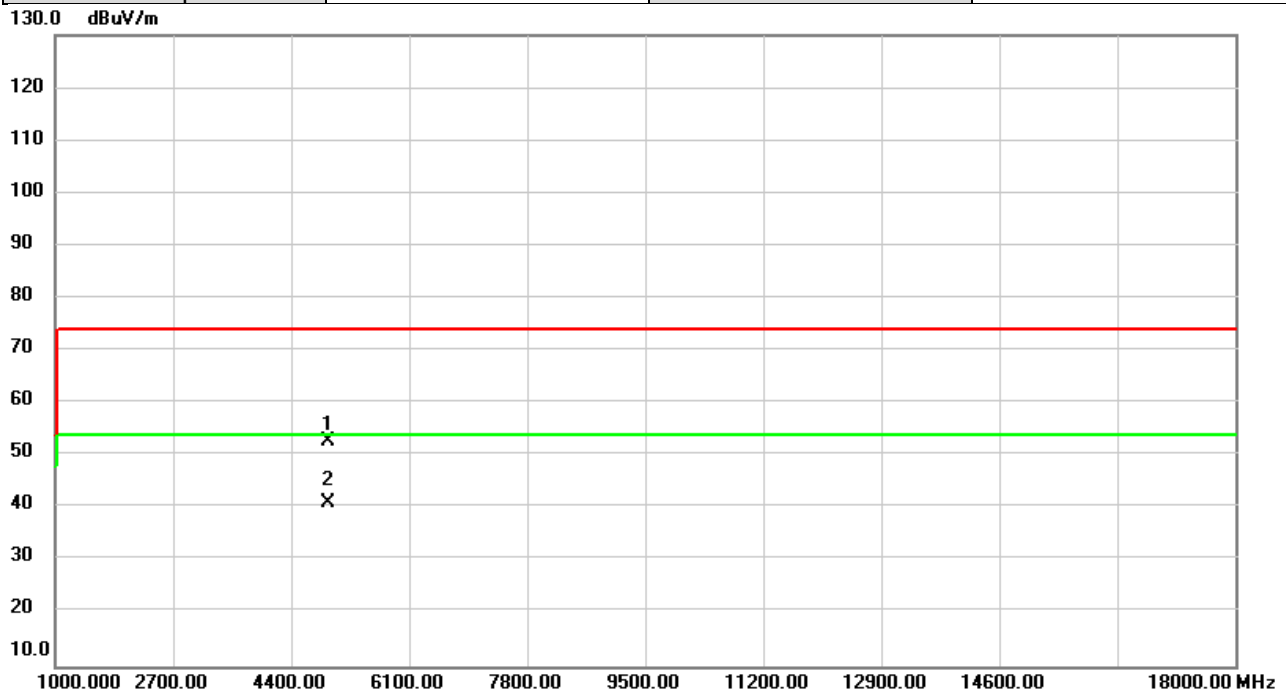


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	44.61	2.61	47.22	74.00	-26.78	peak	
2	*	4924.000	34.24	2.61	36.85	54.00	-17.15	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/9/10
Test Frequency	2462MHz	Polarization	Horizontal
Temp	28°C	Hum.	65%

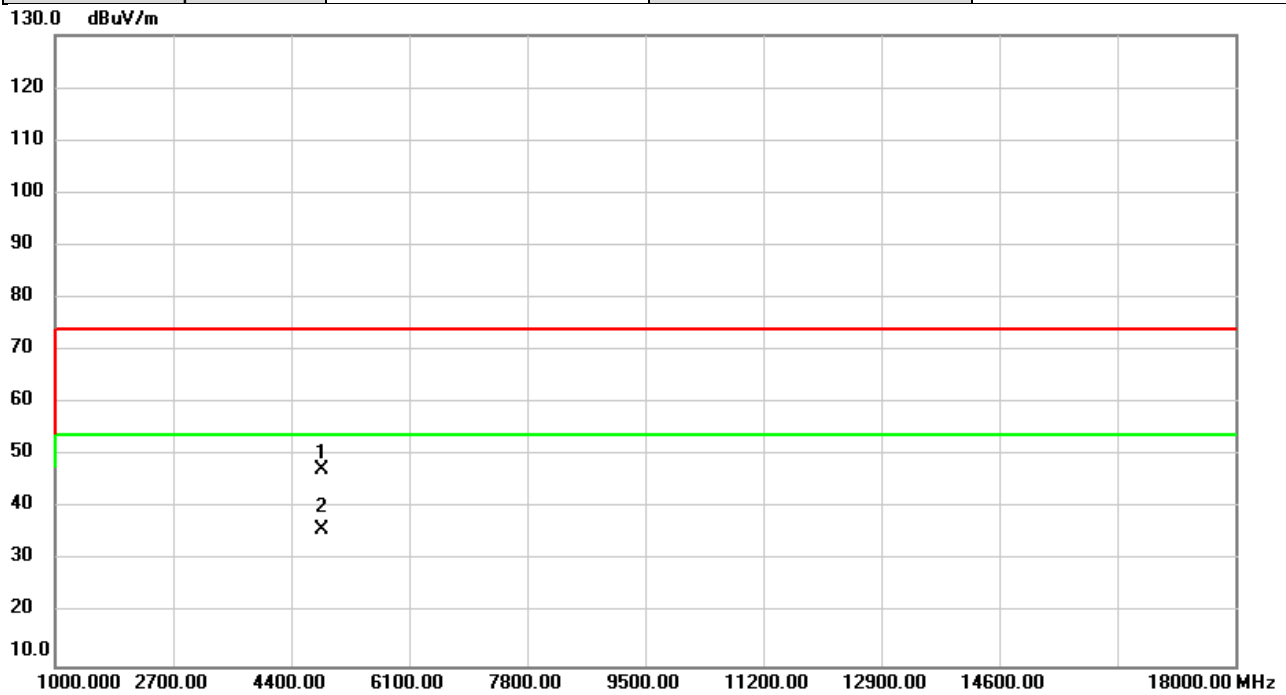


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	50.17	2.61	52.78	74.00	-21.22	peak	
2	*	4924.000	38.35	2.61	40.96	54.00	-13.04	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2025/9/10
Test Frequency	2422MHz	Polarization	Vertical
Temp	28°C	Hum.	65%

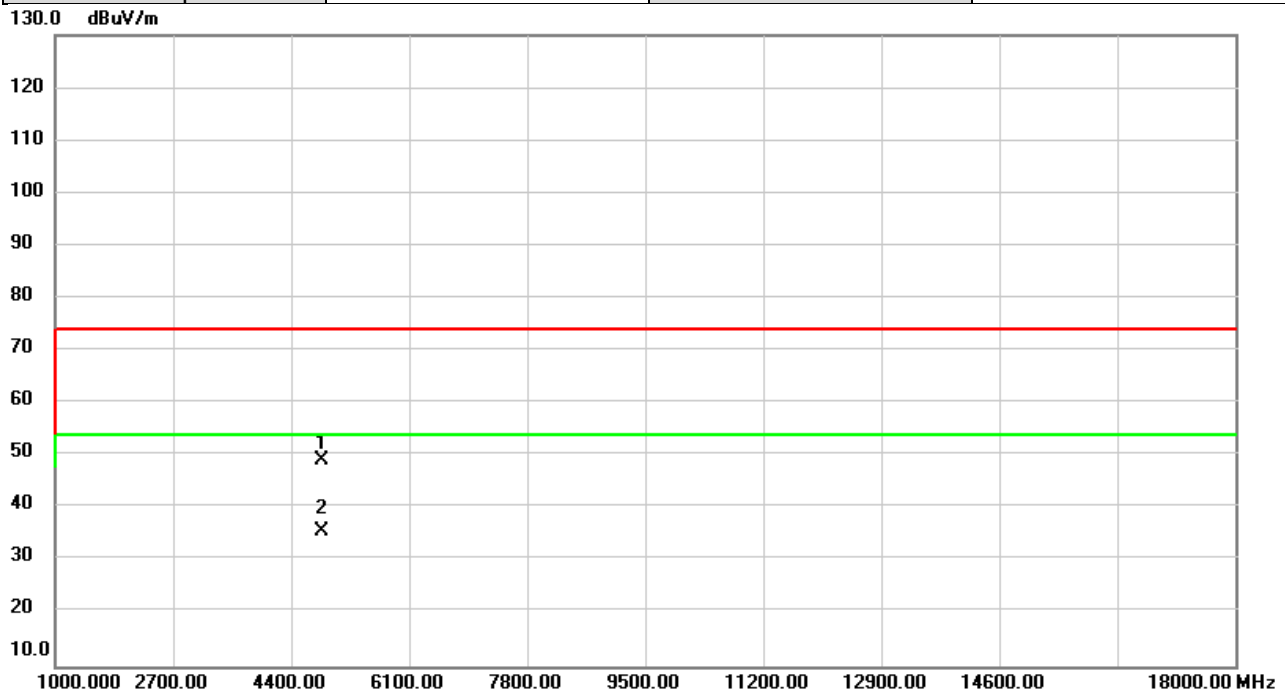


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.000	44.83	2.39	47.22	74.00	-26.78	peak	
2	*	4844.000	33.44	2.39	35.83	54.00	-18.17	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2025/9/10
Test Frequency	2422MHz	Polarization	Horizontal
Temp	28°C	Hum.	65%

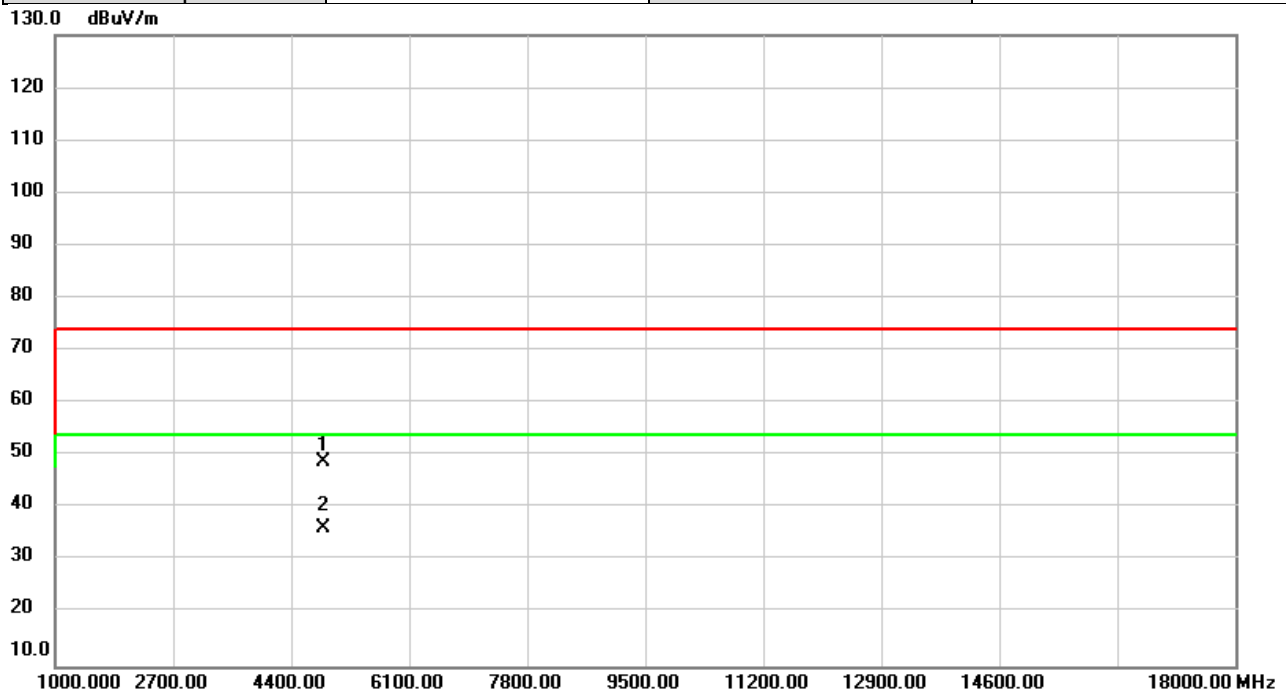


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.000	46.66	2.39	49.05	74.00	-24.95	peak	
2	*	4844.000	33.17	2.39	35.56	54.00	-18.44	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2025/9/10
Test Frequency	2437MHz	Polarization	Vertical
Temp	28°C	Hum.	65%

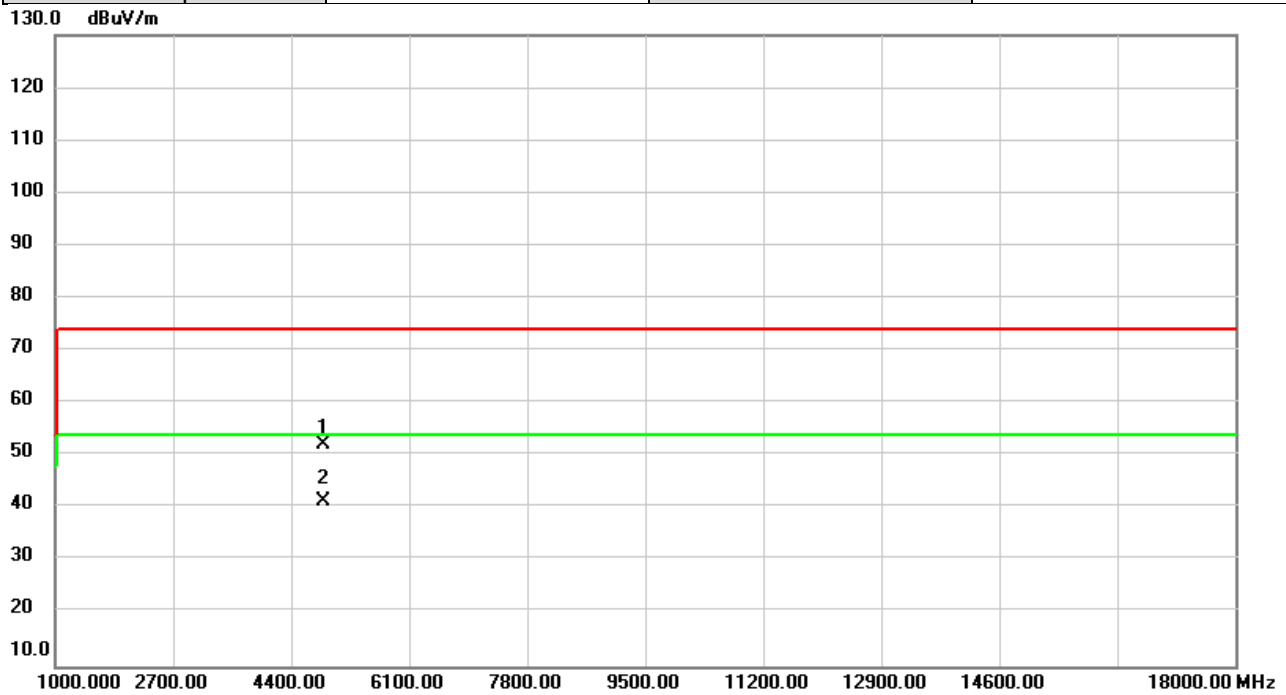


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	46.48	2.47	48.95	74.00	-25.05	peak	
2	*	4874.000	33.84	2.47	36.31	54.00	-17.69	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2025/9/10
Test Frequency	2437MHz	Polarization	Horizontal
Temp	28°C	Hum.	65%

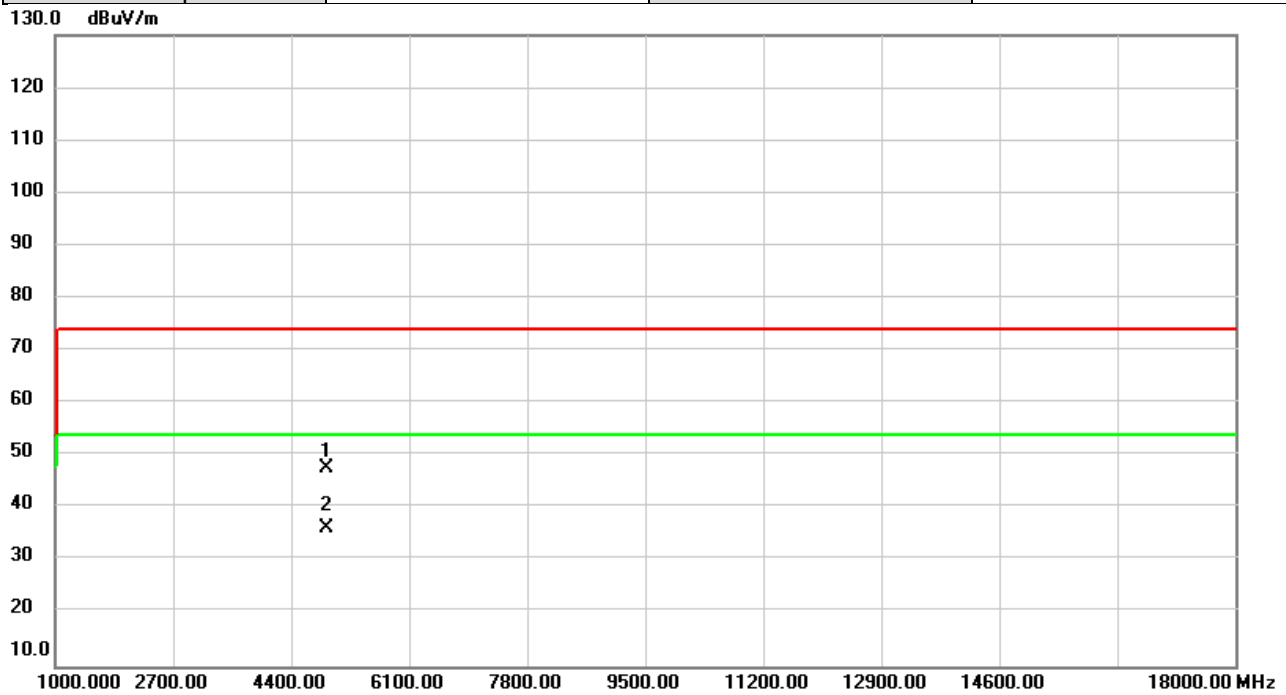


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	49.54	2.47	52.01	74.00	-21.99	peak	
2	*	4874.000	39.02	2.47	41.49	54.00	-12.51	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2025/9/10
Test Frequency	2452MHz	Polarization	Vertical
Temp	28°C	Hum.	65%

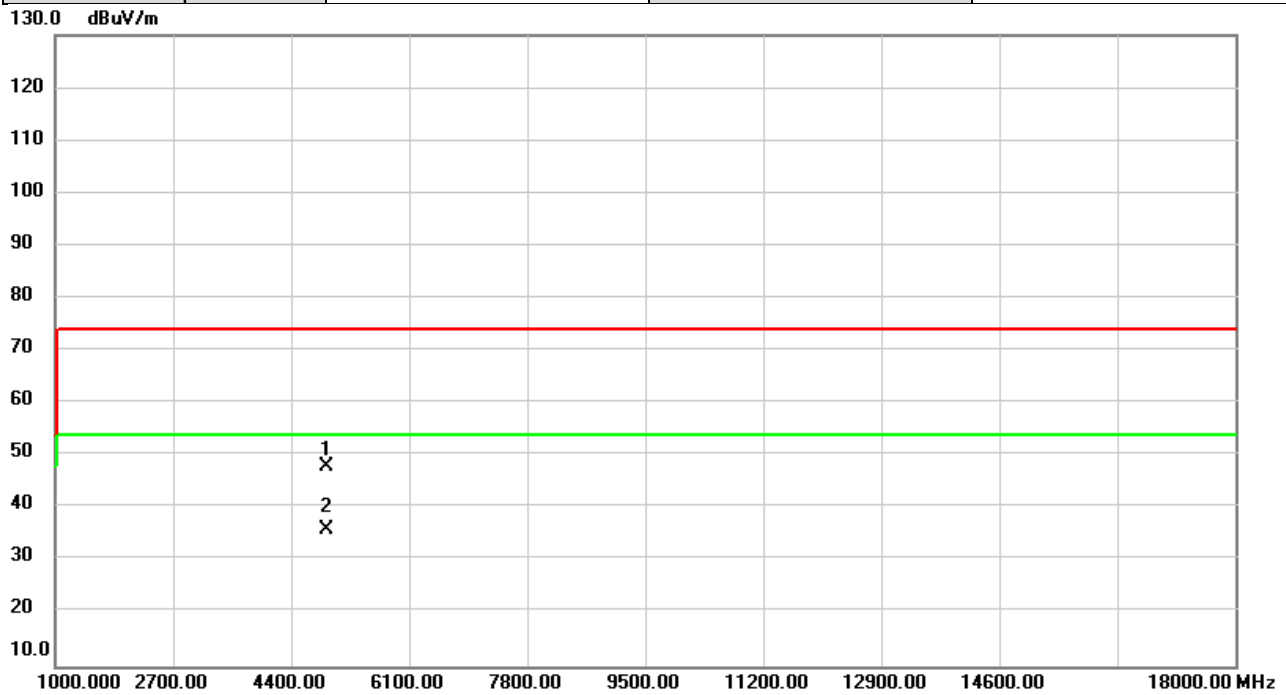


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	45.08	2.56	47.64	74.00	-26.36	peak	
2	*	4904.000	33.62	2.56	36.18	54.00	-17.82	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2025/9/10
Test Frequency	2452MHz	Polarization	Horizontal
Temp	28°C	Hum.	65%

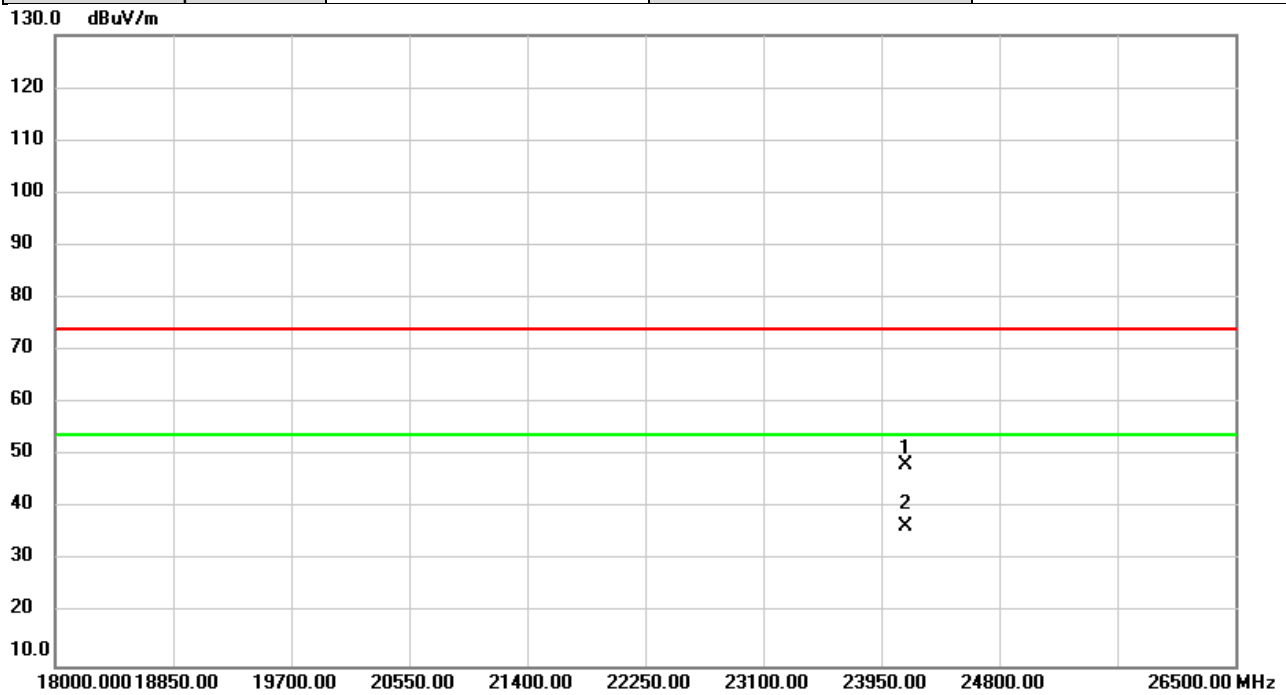


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	45.42	2.56	47.98	74.00	-26.02	peak	
2	*	4904.000	33.47	2.56	36.03	54.00	-17.97	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/9/18
Test Frequency	2412MHz	Polarization	Vertical
Temp	26°C	Hum.	61%

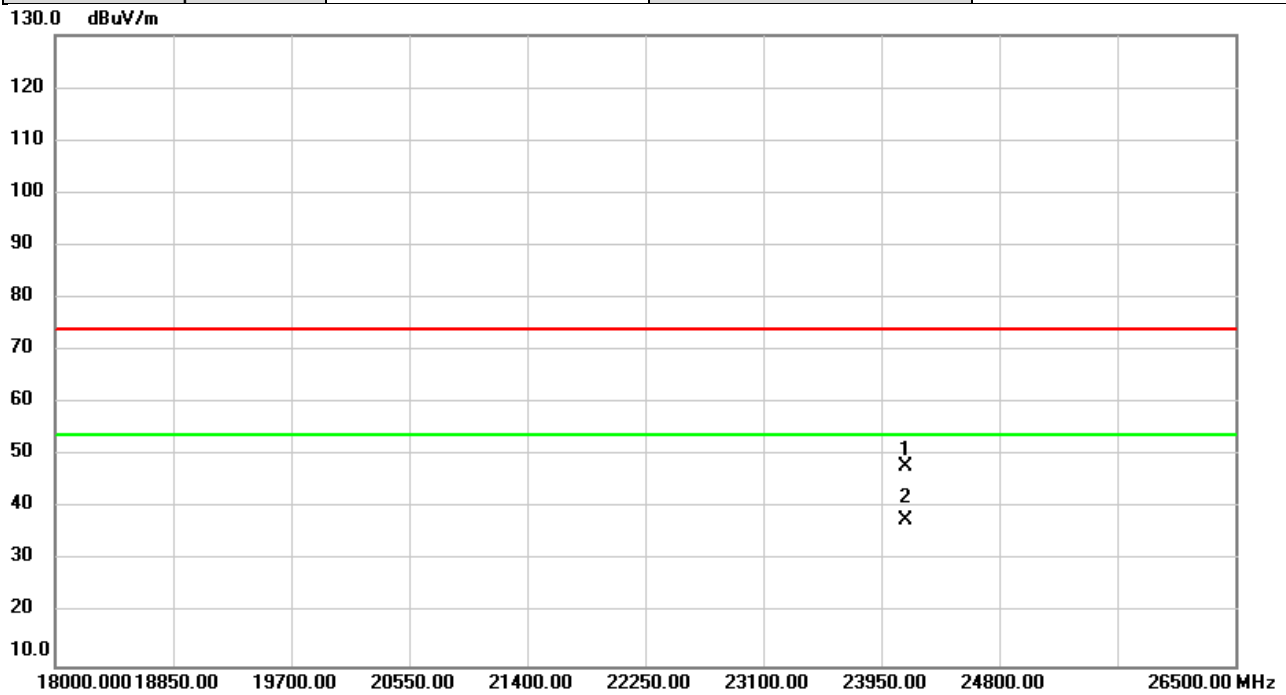


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		24120.00	50.84	-2.69	48.15	74.00	-25.85	peak	
2	*	24120.00	39.18	-2.69	36.49	54.00	-17.51	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/9/18
Test Frequency	2412MHz	Polarization	Horizontal
Temp	26°C	Hum.	61%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		24120.00	50.58	-2.69	47.89	74.00	-26.11	peak	
2	*	24120.00	40.43	-2.69	37.74	54.00	-16.26	AVG	

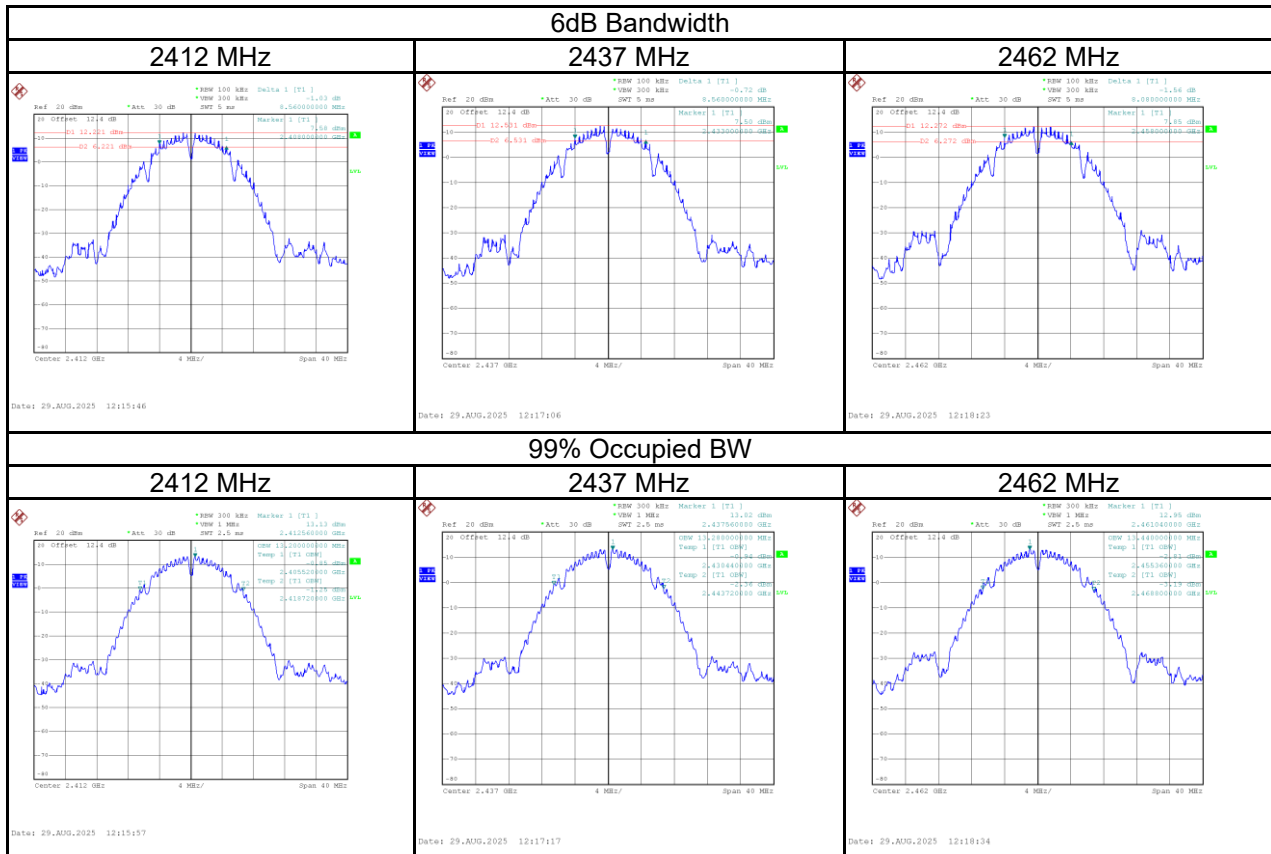
REMARKS:

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

APPENDIX E BANDWIDTH

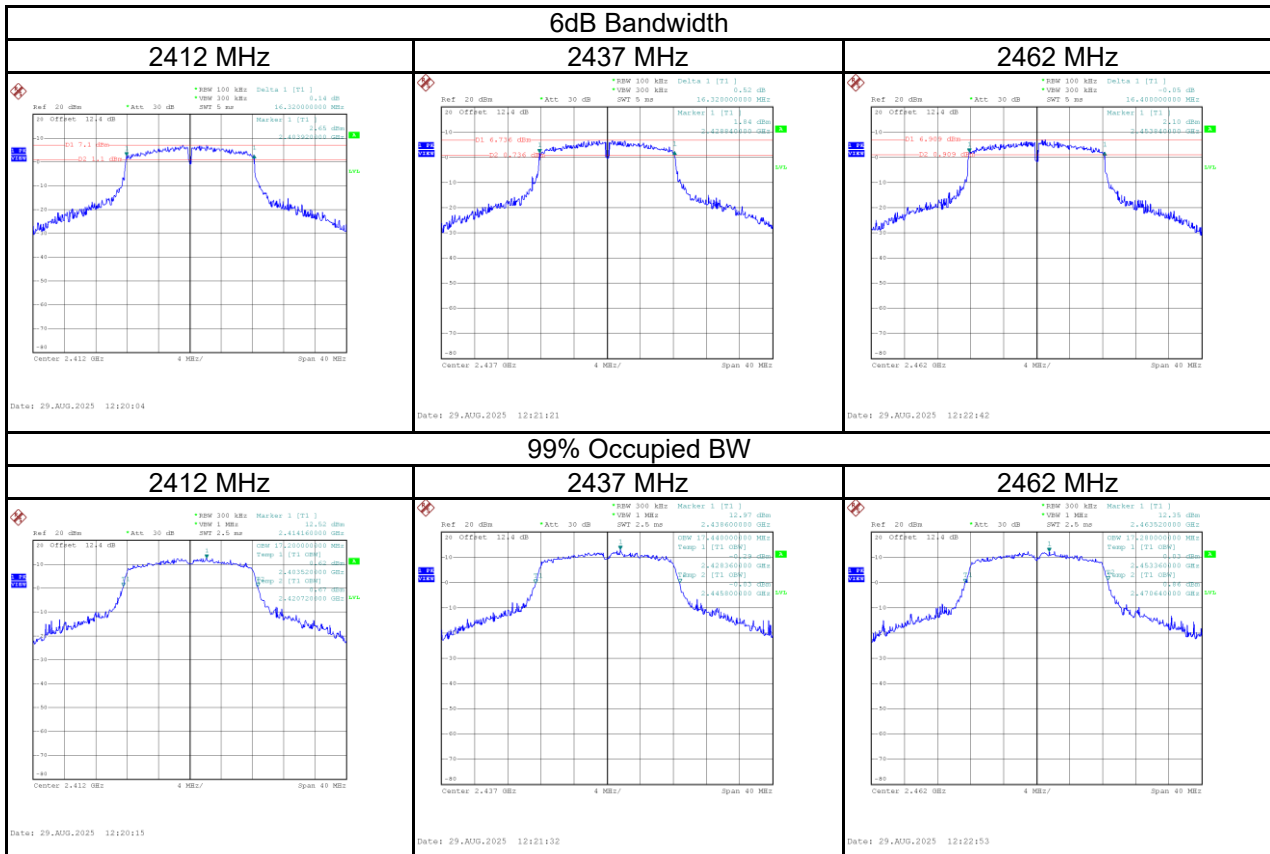
Test Mode	IEEE 802.11b
-----------	--------------

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	8.56	13.20	≥ 500	Pass
2437	8.56	13.28	≥ 500	Pass
2462	8.08	13.44	≥ 500	Pass



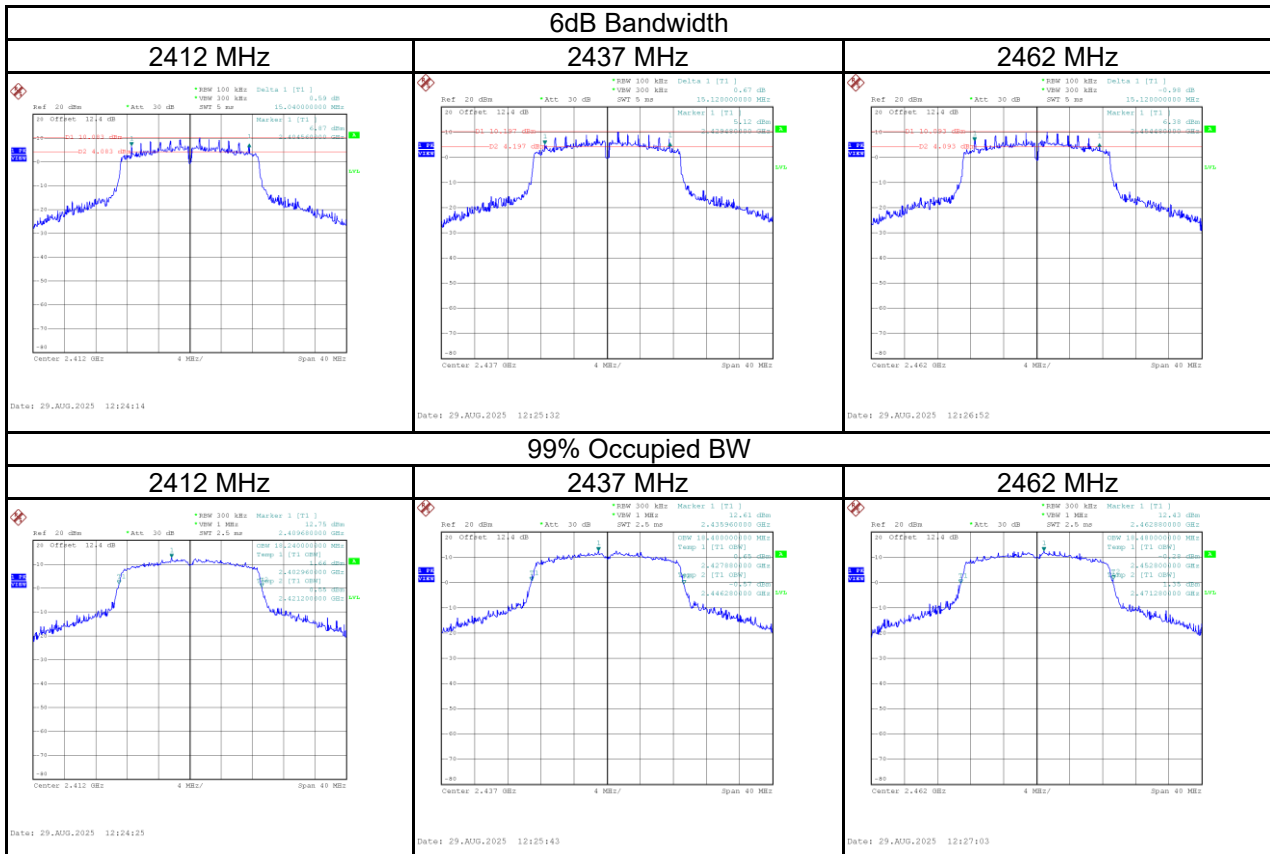
Test Mode	IEEE 802.11g
-----------	--------------

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	16.32	17.20	≥ 500	Pass
2437	16.32	17.44	≥ 500	Pass
2462	16.40	17.28	≥ 500	Pass



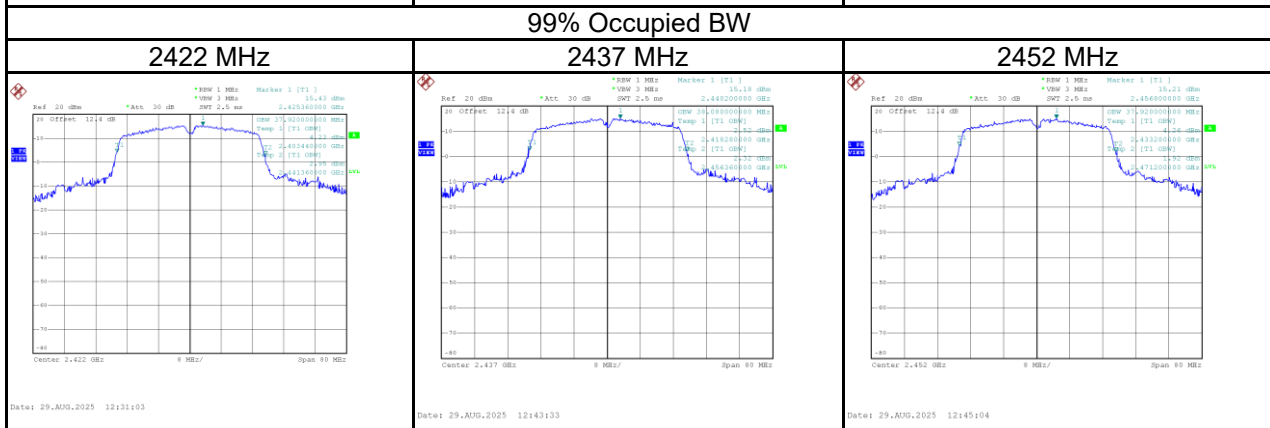
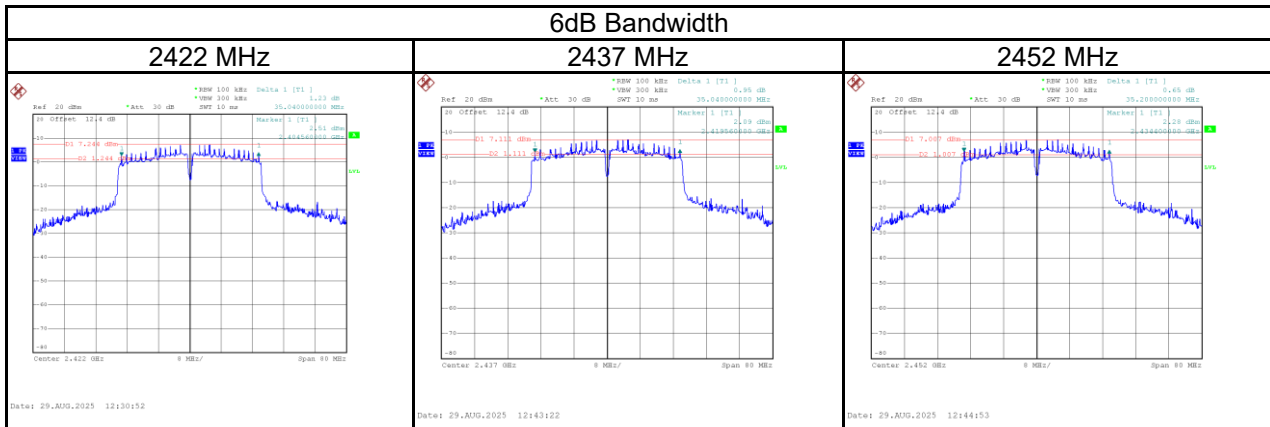
Test Mode	IEEE 802.11n (HT20)
-----------	---------------------

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	15.04	18.24	≥ 500	Pass
2437	15.12	18.40	≥ 500	Pass
2462	15.12	18.48	≥ 500	Pass



Test Mode	IEEE 802.11n (HT40)
-----------	---------------------

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2422	35.04	37.92	≥ 500	Pass
2437	35.04	38.08	≥ 500	Pass
2452	35.20	37.92	≥ 500	Pass



APPENDIX F OUTPUT POWER

Test Mode	IEEE 802.11b	Tested Date	2025/8/28
-----------	--------------	-------------	-----------

Frequency (MHz)	Peak Power (dBm)	Peak Power (W)	Power Limit (dBm)	Power Limit (W)	Result
2412	19.81	0.0957	30.00	1.0000	Pass
2437	21.84	0.1528	30.00	1.0000	Pass
2462	21.73	0.1489	30.00	1.0000	Pass

Test Mode	IEEE 802.11g	Tested Date	2025/8/28
-----------	--------------	-------------	-----------

Frequency (MHz)	Peak Power (dBm)	Peak Power (W)	Power Limit (dBm)	Power Limit (W)	Result
2412	22.23	0.1671	30.00	1.0000	Pass
2437	25.04	0.3192	30.00	1.0000	Pass
2462	24.24	0.2655	30.00	1.0000	Pass

Test Mode	IEEE 802.11n (HT20)	Tested Date	2025/8/28
-----------	---------------------	-------------	-----------

Frequency (MHz)	Peak Power (dBm)	Peak Power (W)	Power Limit (dBm)	Power Limit (W)	Result
2412	22.89	0.1945	30.00	1.0000	Pass
2437	24.94	0.3119	30.00	1.0000	Pass
2462	24.48	0.2805	30.00	1.0000	Pass

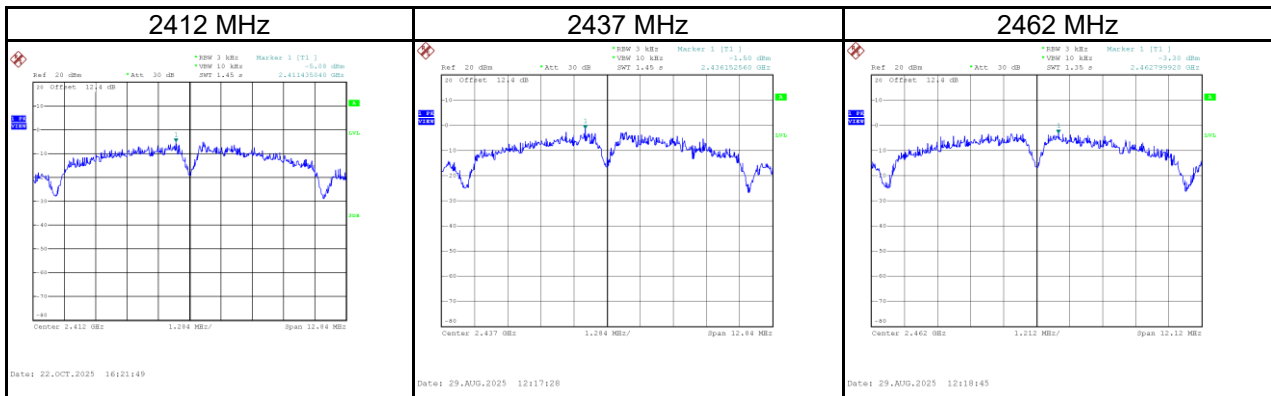
Test Mode	IEEE 802.11n (HT40)	Tested Date	2025/8/28
-----------	---------------------	-------------	-----------

Frequency (MHz)	Peak Power (dBm)	Peak Power (W)	Power Limit (dBm)	Power Limit (W)	Result
2422	23.82	0.2410	30.00	1.0000	Pass
2437	25.23	0.3334	30.00	1.0000	Pass
2452	23.89	0.2449	30.00	1.0000	Pass

APPENDIX G POWER SPECTRAL DENSITY

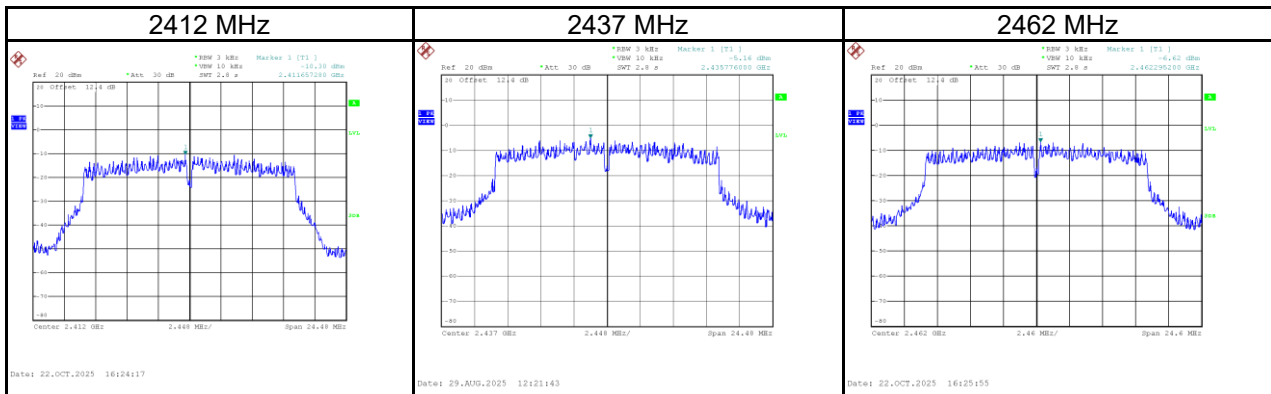
Test Mode	IEEE 802.11b_Aux Antenna
-----------	--------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-5.08	8.00	Pass
2437	-1.50	8.00	Pass
2462	-3.30	8.00	Pass



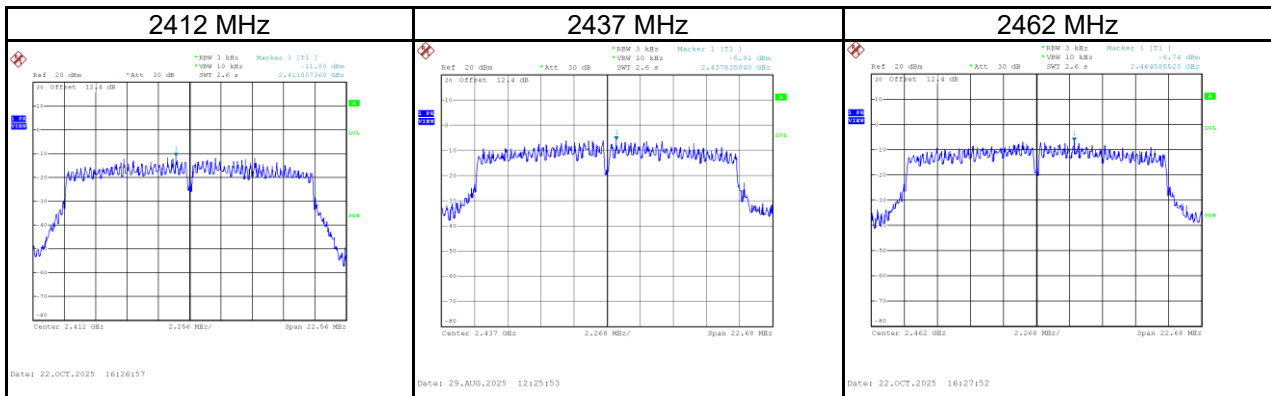
Test Mode	IEEE 802.11g
-----------	--------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-10.30	8.00	Pass
2437	-5.16	8.00	Pass
2462	-6.62	8.00	Pass



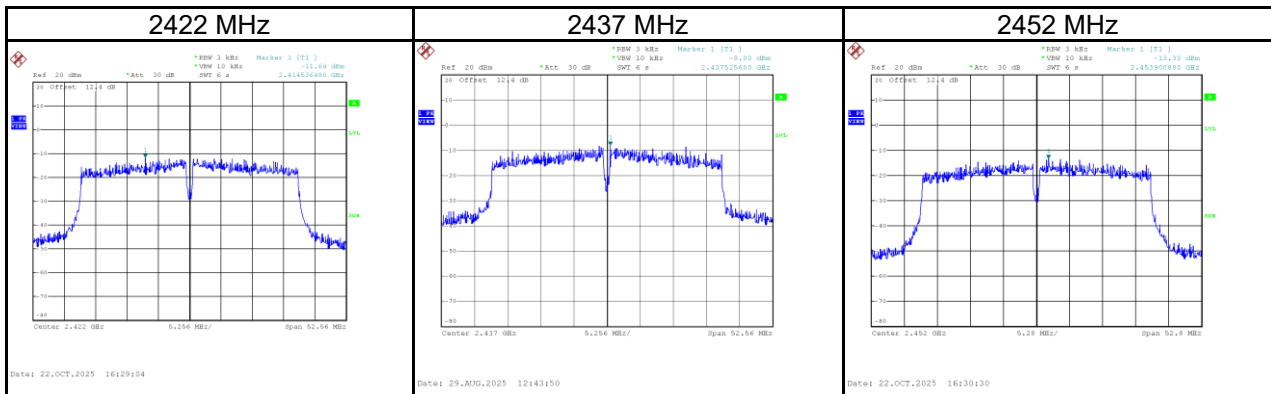
Test Mode	IEEE 802.11n (HT20)
-----------	---------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-11.00	8.00	Pass
2437	-5.91	8.00	Pass
2462	-6.74	8.00	Pass



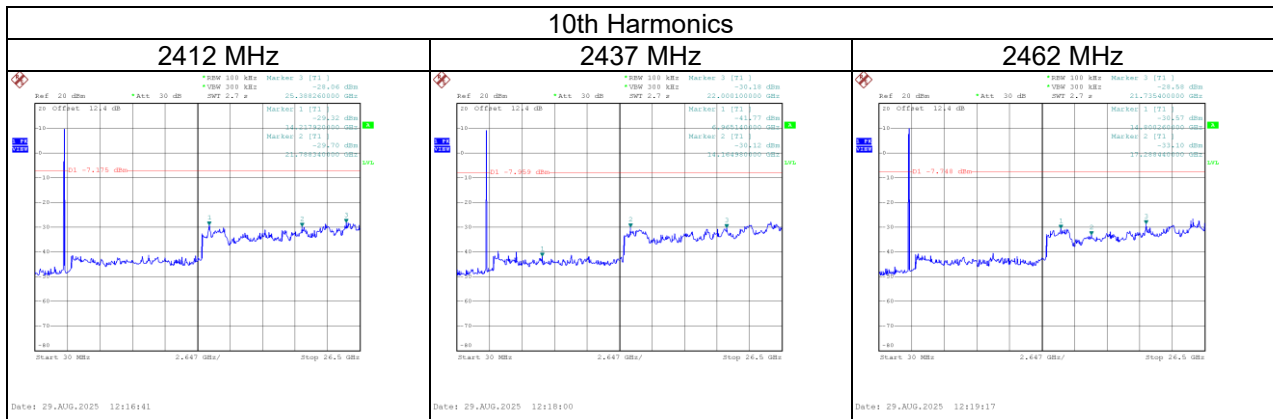
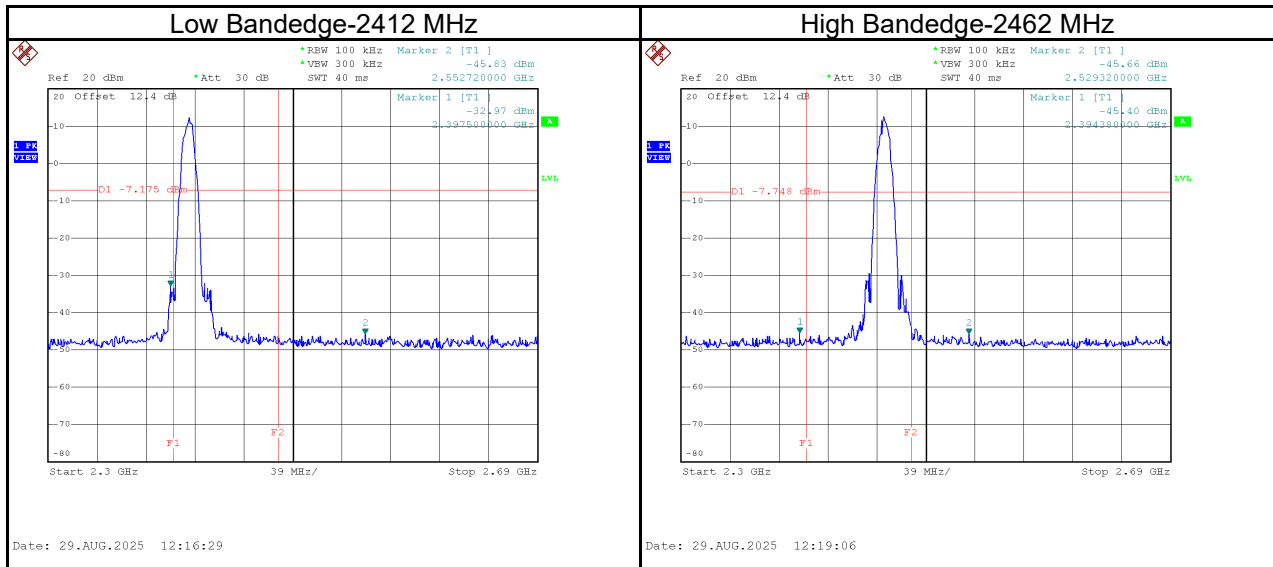
Test Mode	IEEE 802.11n (HT40)
-----------	---------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2422	-11.64	8.00	Pass
2437	-8.00	8.00	Pass
2452	-13.30	8.00	Pass

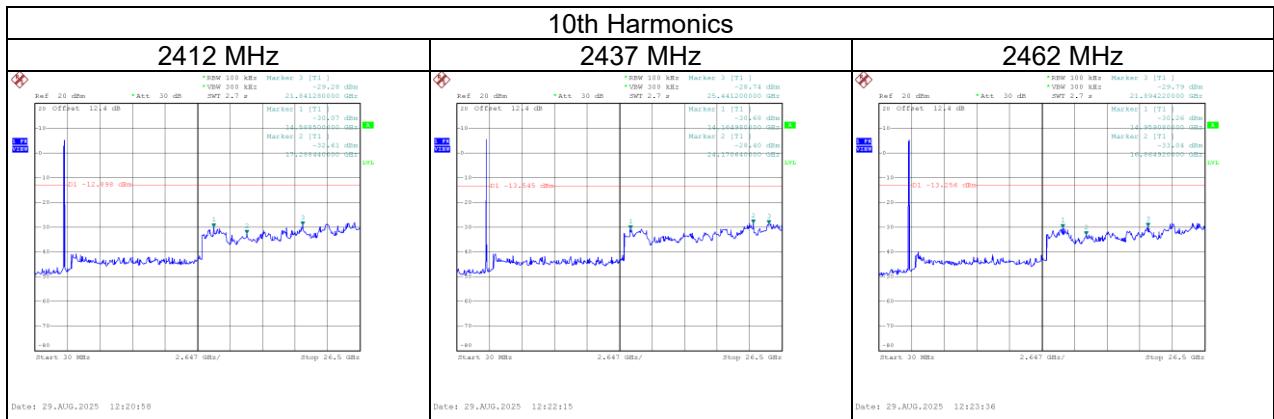
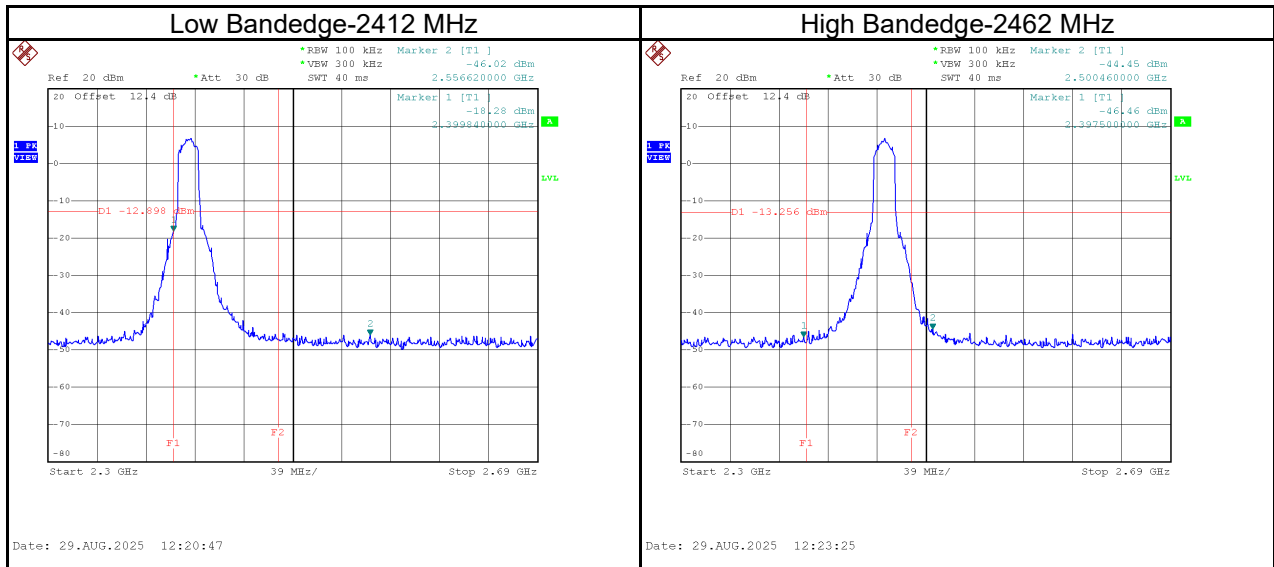


APPENDIX H ANTENNA CONDUCTED SPURIOUS EMISSIONS

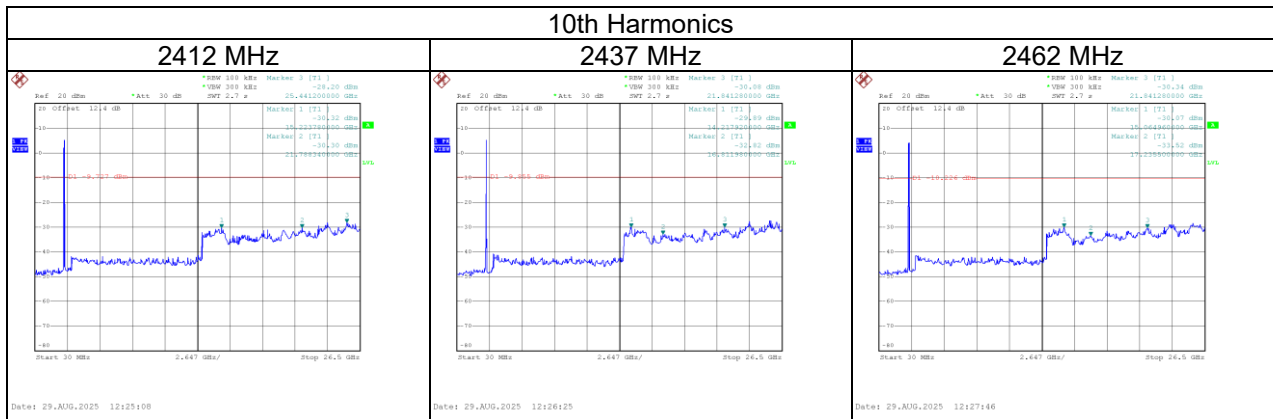
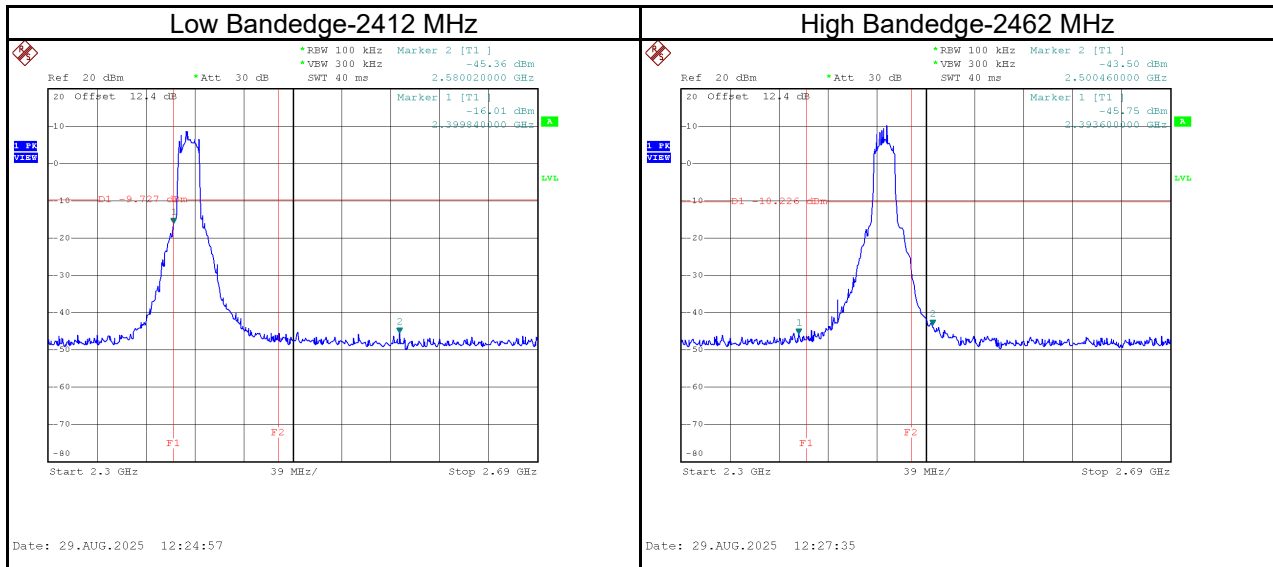
Test Mode IEEE 802.11b



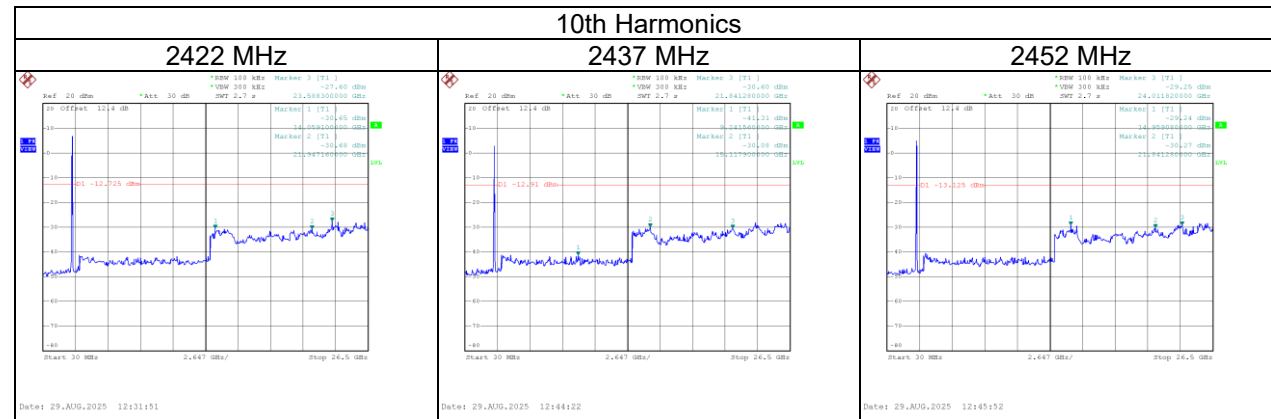
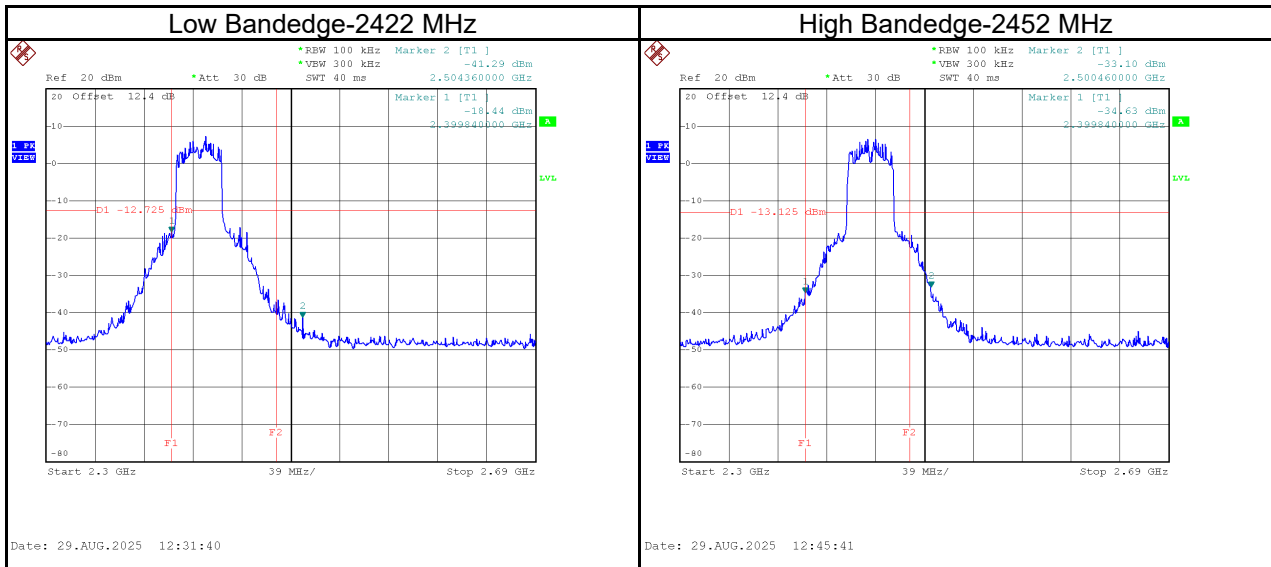
Test Mode IEEE 802.11g



Test Mode IEEE 802.11n (HT20)



Test Mode	IEEE 802.11n (HT40)
-----------	---------------------



End of Test Report