

FCC Radio Test Report

FCC ID: 2ANR7-TPMS6

Report No. : BTL-FCCP-2-2502T052
Equipment : Tire-pressure monitoring system
Model Name : TPMS6
Brand Name : Snap-on
Applicant : ATEQ INSTRUMENTS (ASIA) PTE LTD.TAIWAN BRANCH (SINGAPORE)
Address : NO.3, LANE 223, SAN JIA DONG STREET, 40642, TAICHUNG, 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 C63.10-2013
Date of Receipt : 2025/2/13
Date of Test : 2025/3/3~ 2025/3/17
Issued Date : 2025/4/29

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

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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.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2502T052	R00	Original Report.	2025/4/29	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	Method	Measurement Frequency Range	U (dB)
C05	CISPR	150 kHz ~ 30MHz	3.44

B. Radiated emissions test :

Test Site	Measurement Frequency Range	U (dB)
CB21	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
	1 GHz ~ 6 GHz	5.21
	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

C. Conducted test :

Test Item	U,(dB)
Occupied Bandwidth	0.5334
Output Power	0.3669
Power Spectral Density	0.6591
Conducted Spurious emissions	0.5416
Conducted Band edges	0.5348

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	24 °C, 53 %	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	24 °C, 51 %	DC 5V	Easton Tsai
Output Power	24 °C, 51 %	DC 5V	Easton Tsai
Power Spectral Density	24 °C, 51 %	DC 5V	Easton Tsai
Antenna conducted Spurious Emission	24 °C, 51 %	DC 5V	Easton Tsai

1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

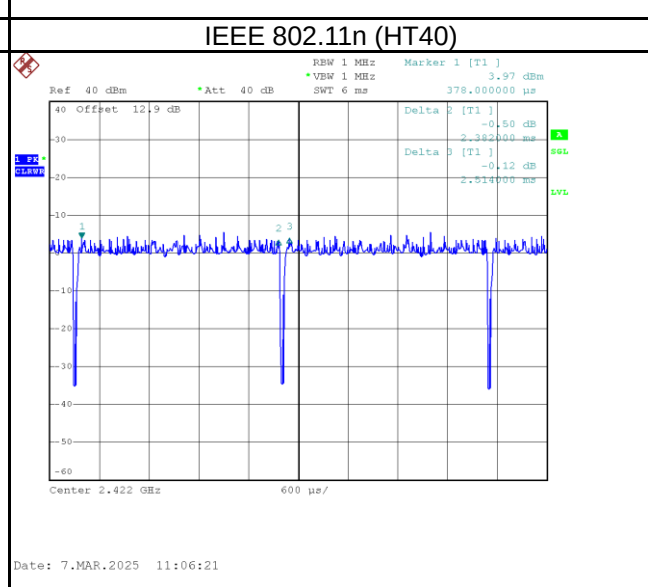
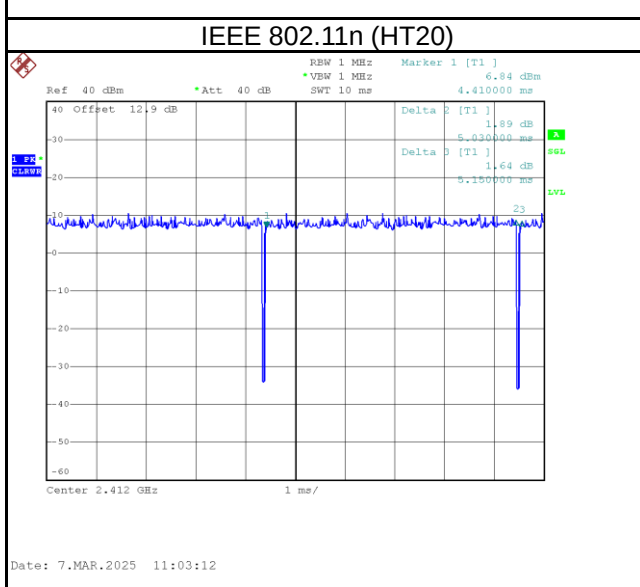
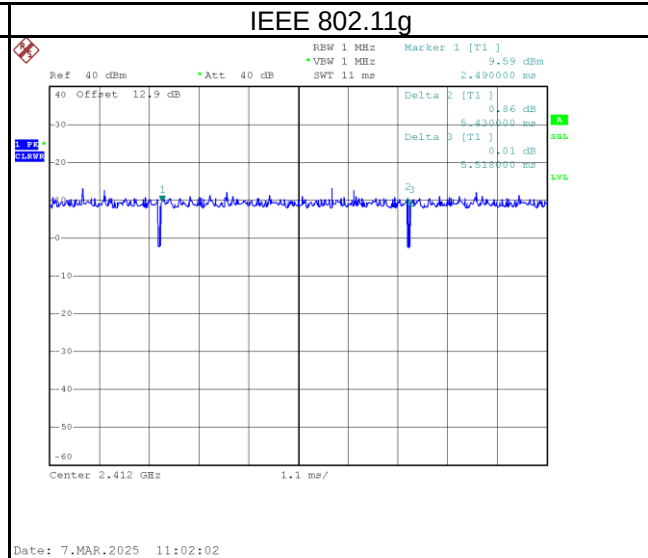
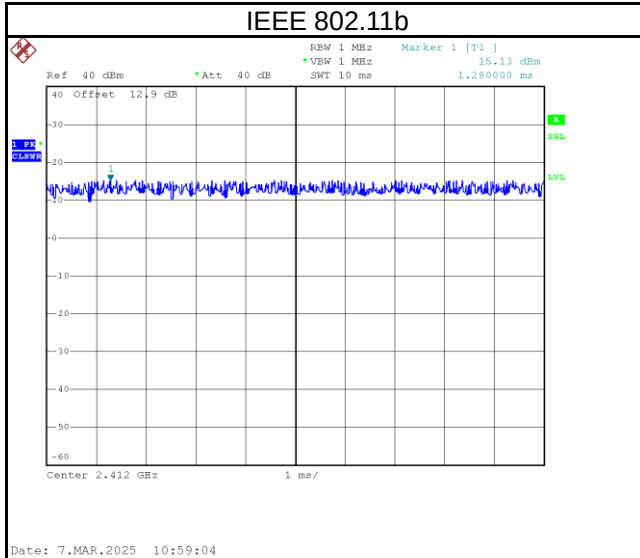
Test Software	EspRFTesTool			
Modulation Mode	2412 MHz	2437 MHz	2462 MHz	Data Rate
IEEE 802.11b	0	0	0	1 Mbps
IEEE 802.11g	0	0	0	6 Mbps
IEEE 802.11n (HT20)	0	0	0	MCS 0
Modulation Mode	2422 MHz	2437 MHz	2452 MHz	Data Rate
IEEE 802.11n (HT40)	0	0	0	MCS 0

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.

Mode	ON (ms)	Numbers (ON)	On Time (B) (ms)	Period (ON+OFF) (ms)	Duty Cycle (%)	Duty Factor (dB)
IEEE 802.11b	1.432	1	1.432	1.432	100.00%	0.00
IEEE 802.11g	5.430	1	5.430	5.518	98.41%	0.07
IEEE 802.11n (HT20)	5.030	1	5.030	5.150	97.67%	0.10
IEEE 802.11n (HT40)	2.382	1	2.382	2.514	94.75%	0.23



2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Tire-pressure monitoring system
Model Name	TPMS6
Brand Name	Snap-on
Model Difference	N/A
Power Source	DC Voltage supplied from AC/DC adapter.
Power Rating	I/P: AC 100-240V~50/60Hz 0.3A O/P: +5.0V---2.0A, 10.0W
Products Covered	1* Adapter: DEE VAN / DSA-10PFP-05 050200 1* WIFI 2.4GHz Module: ESPRESSIF / ESP32-C3-WROOM-02 1* 2.4GHz OOK Module: TEXAS / CC2500 1* USB Cable 4* Plug
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
Maximum Output Power	IEEE 802.11b: 22.57 dBm (0.1807 W) IEEE 802.11g: 23.39 dBm (0.2183 W) IEEE 802.11n (HT20): 22.56 dBm (0.1803 W) IEEE 802.11n (HT40): 21.86 dBm (0.1535 W)
Test Model	TPMS6
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	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		

(3) Table for Filed Antenna:

Antenna	Manufacture	Model	Type	Connector	Frequency (MHz)	Gain (dBi)
-	Espressif System (Shanghai) Co.,Ltd	ESP-ANT B	PCB	N/A	2402-2462	3.16

(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
Transmitter Radiated Emissions (below 1GHz)	IEEE 802.11b	01	-
Transmitter Radiated Emissions (above 1GHz)	IEEE 802.11b	01/11	Bandedge
	IEEE 802.11g		
	IEEE 802.11n (HT20)	03/09	
	IEEE 802.11n (HT40)		
Transmitter Radiated Emissions (above 1GHz)	IEEE 802.11b	01/07/11	Harmonic
	IEEE 802.11g		
	IEEE 802.11n (HT20)	03/07/09/10/11	
	IEEE 802.11n (HT40)		
Transmitter Radiated Emissions (above 18GHz)	IEEE 802.11b	01	-
Bandwidth & Output Power & Power Spectral Density & Antenna conducted Spurious Emission	IEEE 802.11b	01/07/11	-
	IEEE 802.11g		
	IEEE 802.11n (HT20)	03/07/09	
	IEEE 802.11n (HT40)		

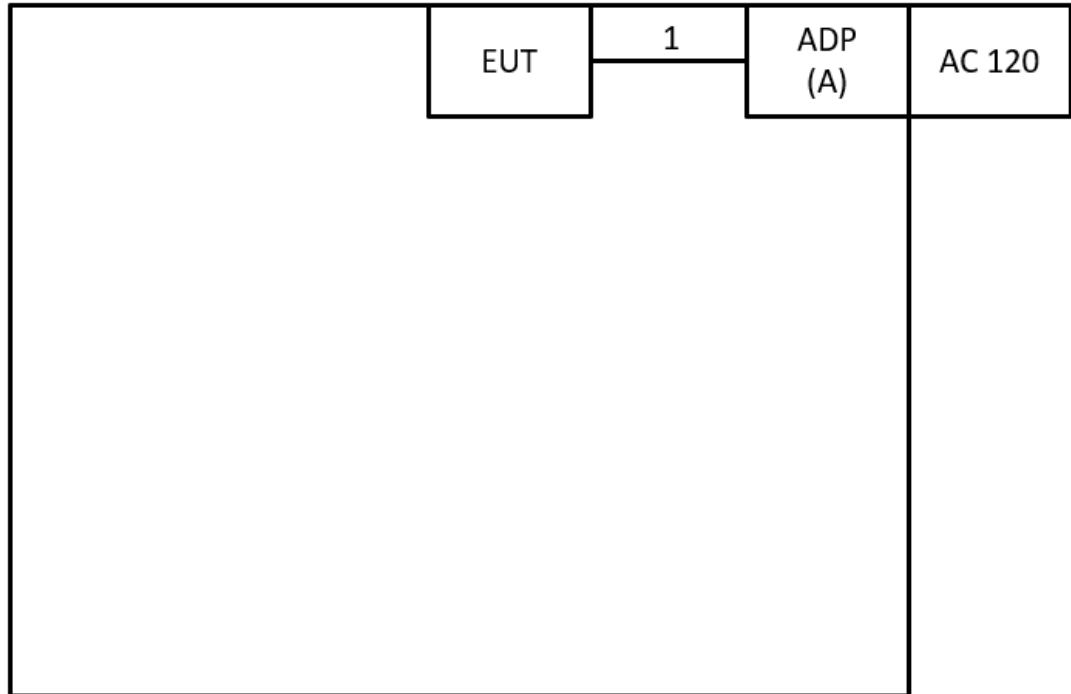
NOTE:

- (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.

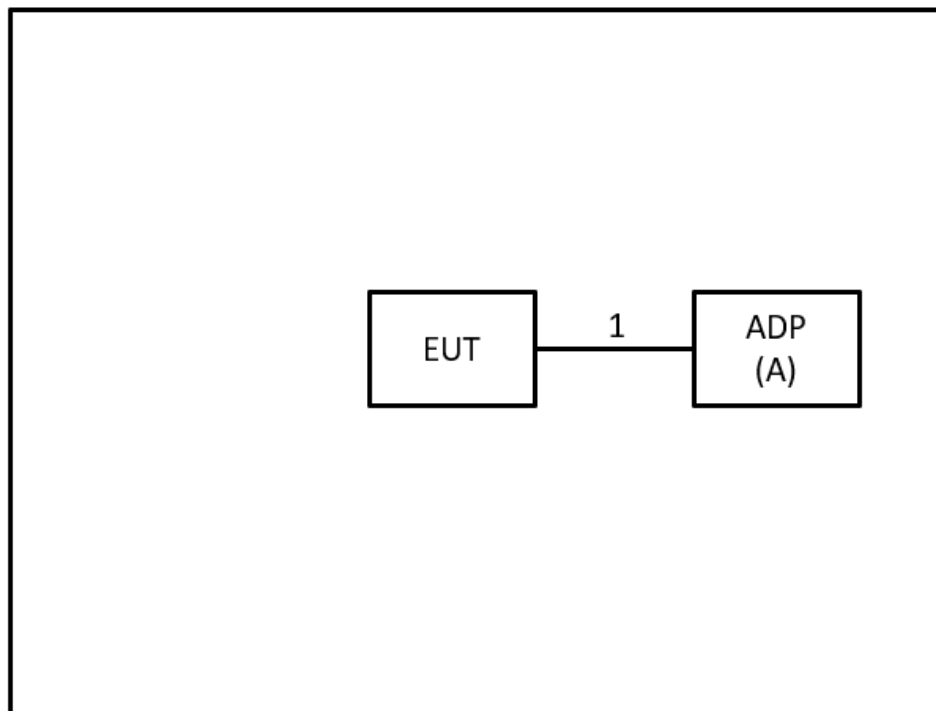
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 0.

AC Power Line Conducted Emissions Test



Radiated Emissions Test



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	ADP	DEEVAN	DSA-10PFP-05	N/A	Supplied by test requester

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	1.05m	USB Cable	Supplied by test requester

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		Correct Factor		Measurement Value
38.22	+	3.45	=	41.67

Measurement Value		Limit Value		Margin Level
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.

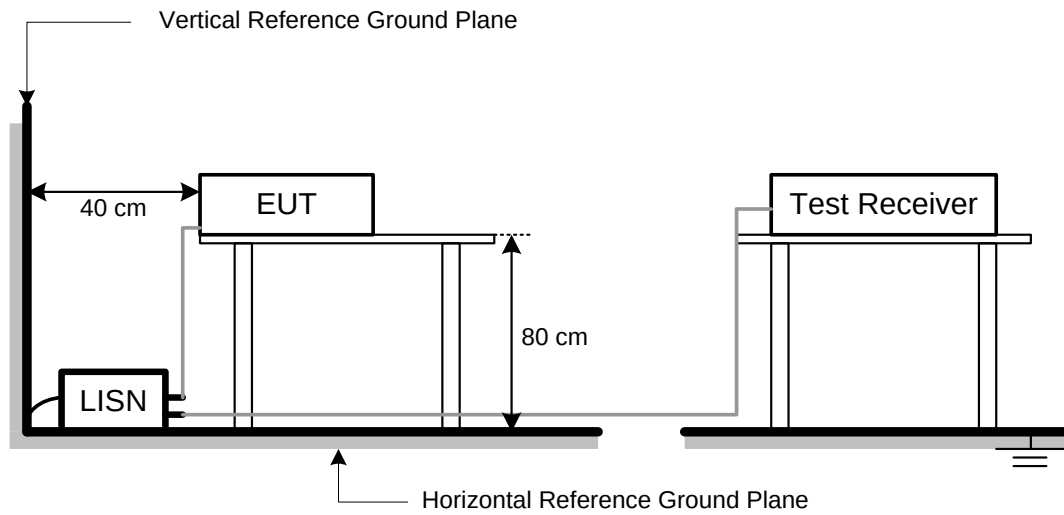
NOTE:

- (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)
41.91	+	-8.36	=	33.55

Measurement Value (dBuV/m)		Limit Value (dBuV/m)		Margin Level (dB)
33.55	-	43.50	=	-9.95

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

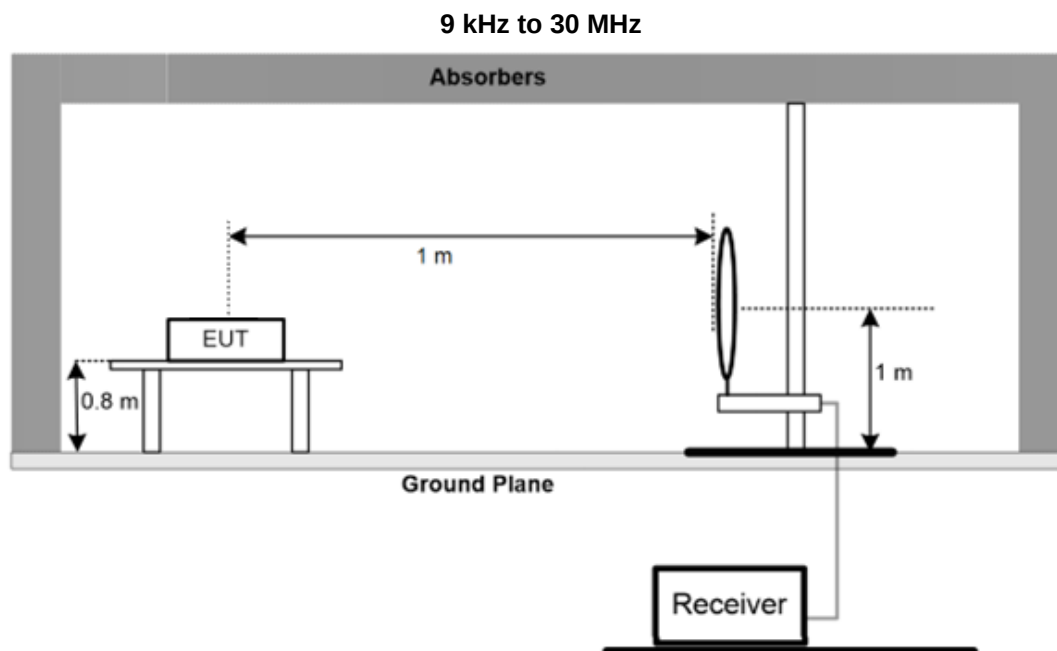
4.2 TEST PROCEDURE

- 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.

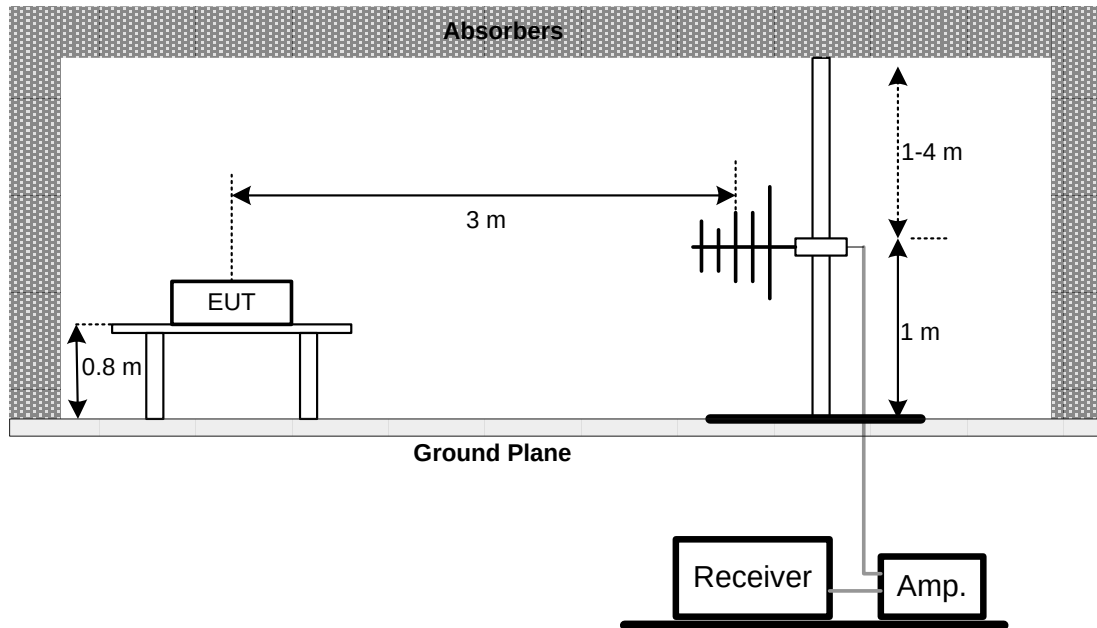
4.3 DEVIATION FROM TEST STANDARD

No deviation.

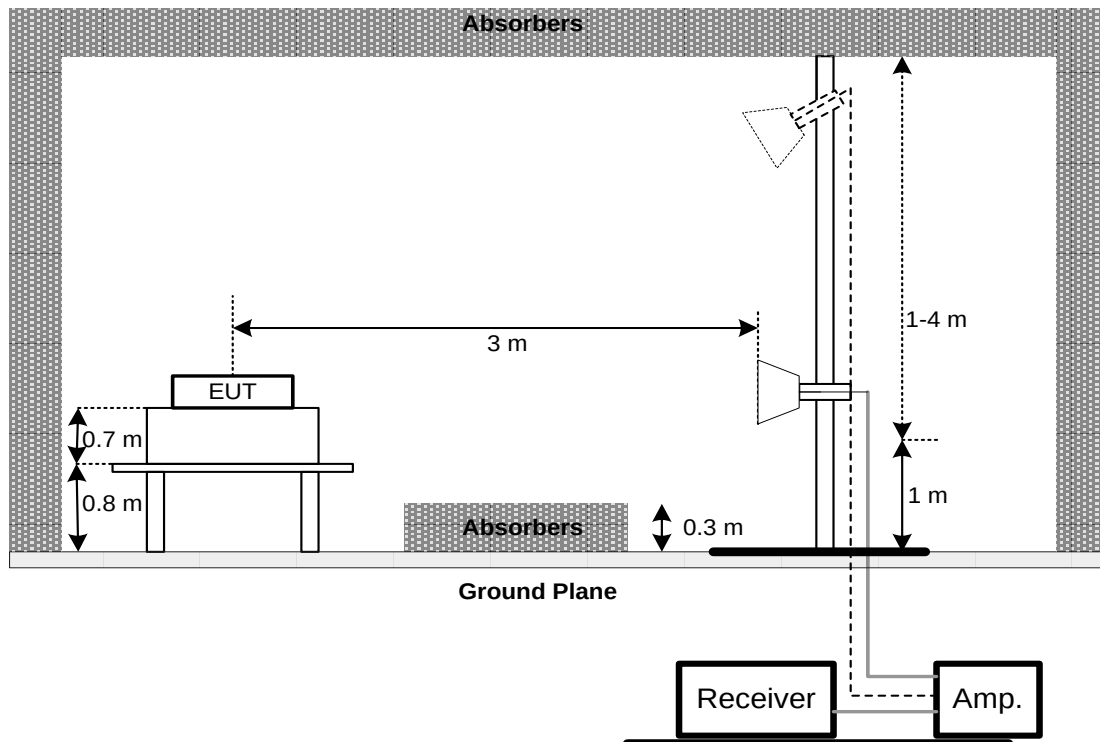
4.4 TEST SETUP



30 MHz to 1 GHz



Above 1 GHz



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT – BELOW 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

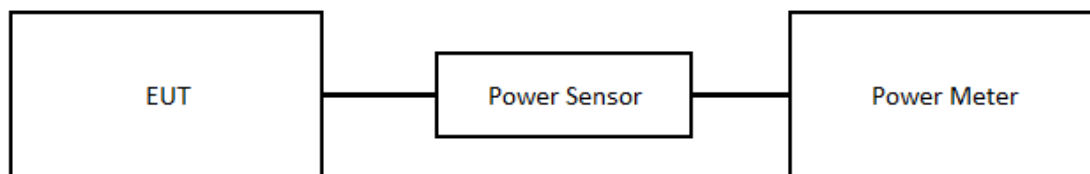
6.2 TEST PROCEDURE

- The EUT was directly connected to the power meter 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	2024/9/5	2025/9/4
2	Test Cable	EMCI	EMCCFD300-BM-BMR-5000	220331	2024/3/30	2025/3/29
3	EMI Test Receiver	R&S	ESR 7	101433	2024/11/7	2025/11/6
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	2024/9/5	2025/9/4
2	Preamplifier	EMCI	EMC118A45SE	980819	2025/3/5	2026/3/4
3	Pre-Amplifier	EMCI	EMC184045SE	980907	2024/9/4	2025/9/3
4	Preamplifier	EMCI	EMC001340	980579	2024/9/4	2025/9/3
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	EMC104-SM-SM-7000	220324	2025/3/5	2026/3/4
8	EXA Signal Analyzer	keysight	N9020B	MY57120120	2025/2/19	2026/2/18
9	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2024/9/9	2025/9/8
10	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2024/5/9	2025/5/8
11	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2024/5/17	2025/5/16
12	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2024/6/14	2025/6/13
13	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2024/6/14	2025/6/13
14	Test Cable	EMCI	EMC101G-KM-KM-3000	220329	2025/3/12	2026/3/11
15	Test Cable	EMCI	EMC102-KM-KM-1000	220327	2025/3/12	2026/3/11
16	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	2024/3/27	2025/3/26

Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Power Meter	Anritsu	ML2495A	1128008	2024/5/11	2025/5/10
2	Power Sensor	Anritsu	MA2411B	1126001	2024/5/11	2025/5/10

Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2024/3/27	2025/3/26

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	2024/3/27	2025/3/26

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

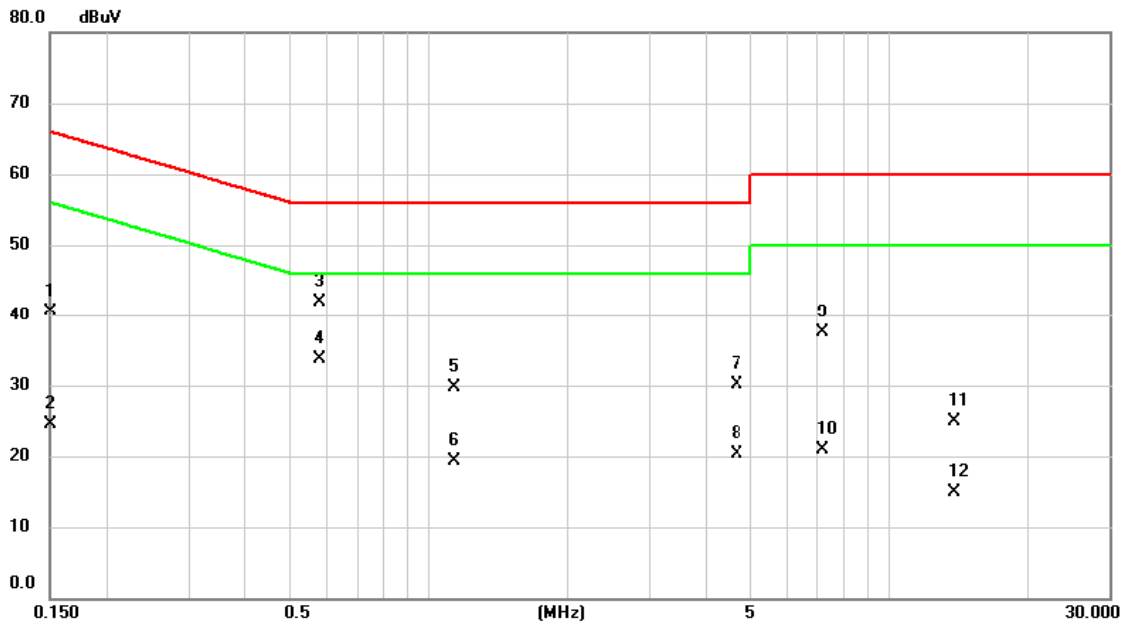
Please refer to document Appendix No.: TP-2502T052-FCCP-1 (APPENDIX-TEST PHOTOS).

11 EUT PHOTOS

Please refer to document Appendix No.: EP-2502T052-3 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2025/3/4
Test Frequency	-	Phase	Line



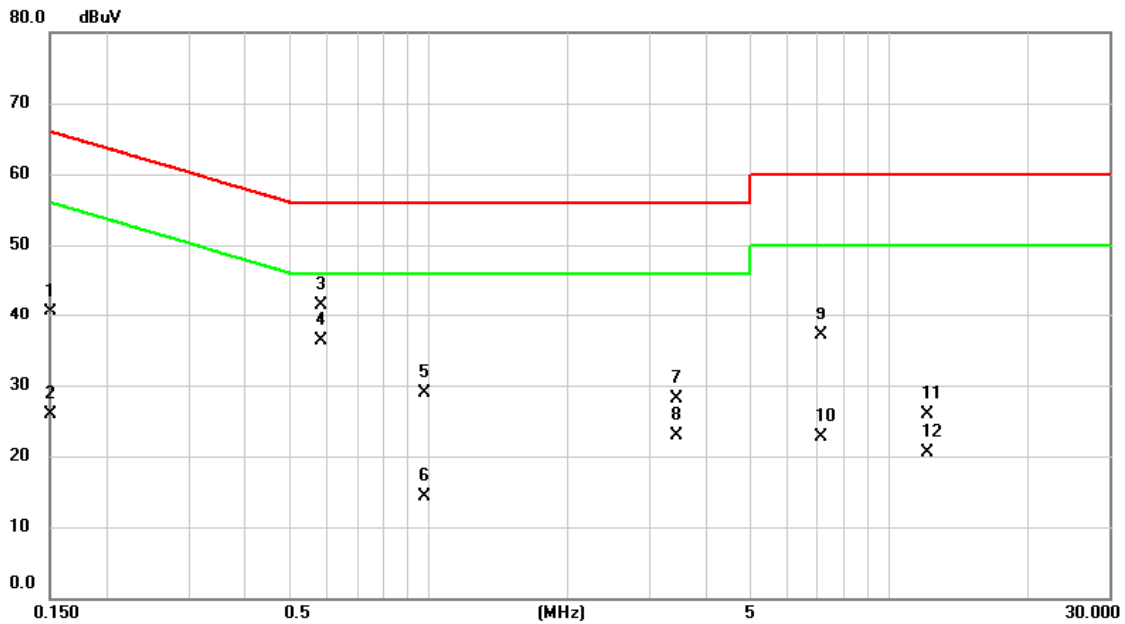
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	30.83	9.67	40.50	66.00	-25.50	QP	
2		0.1500	14.76	9.67	24.43	56.00	-31.57	AVG	
3		0.5820	32.33	9.57	41.90	56.00	-14.10	QP	
4	*	0.5820	24.09	9.57	33.66	46.00	-12.34	AVG	
5		1.1332	20.15	9.56	29.71	56.00	-26.29	QP	
6		1.1332	9.70	9.56	19.26	46.00	-26.74	AVG	
7		4.6658	20.47	9.72	30.19	56.00	-25.81	QP	
8		4.6658	10.57	9.72	20.29	46.00	-25.71	AVG	
9		7.1768	27.82	9.70	37.52	60.00	-22.48	QP	
10		7.1768	11.14	9.70	20.84	50.00	-29.16	AVG	
11		13.8278	15.24	9.70	24.94	60.00	-35.06	QP	
12		13.8278	5.13	9.70	14.83	50.00	-35.17	AVG	

REMARKS:

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

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

Test Mode	Normal	Tested Date	2025/3/4
Test Frequency	-	Phase	Neutral



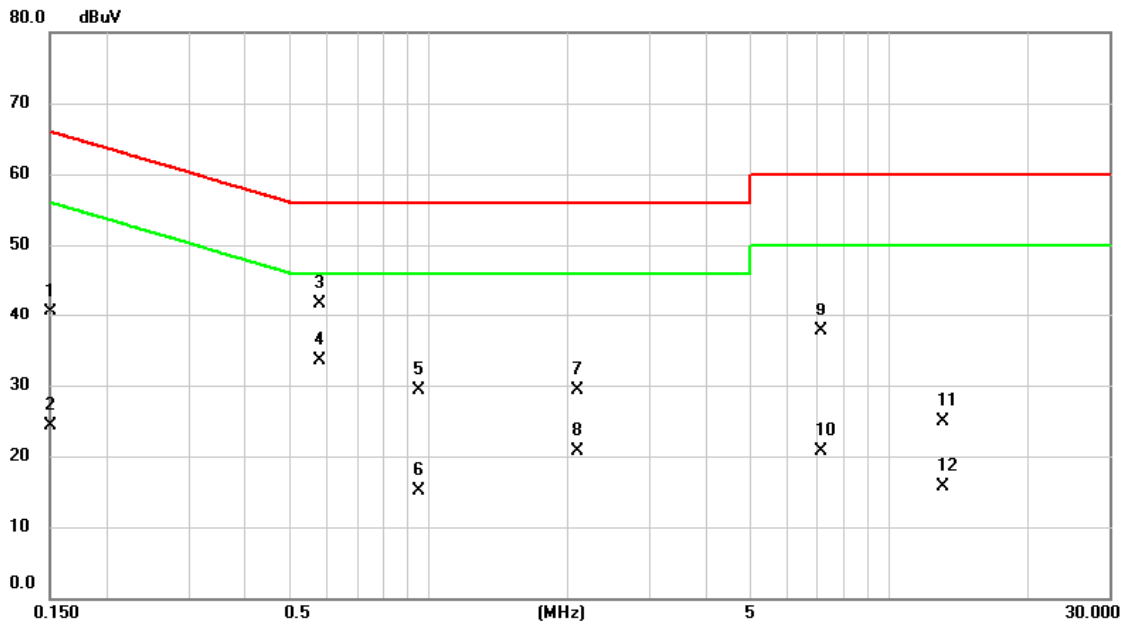
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	30.81	9.65	40.46	66.00	-25.54	QP	
2		0.1500	16.29	9.65	25.94	56.00	-30.06	AVG	
3		0.5842	31.85	9.56	41.41	56.00	-14.59	QP	
4	*	0.5842	26.73	9.56	36.29	46.00	-9.71	AVG	
5		0.9802	19.27	9.55	28.82	56.00	-27.18	QP	
6		0.9802	4.81	9.55	14.36	46.00	-31.64	AVG	
7		3.4350	18.40	9.69	28.09	56.00	-27.91	QP	
8		3.4350	13.28	9.69	22.97	46.00	-23.03	AVG	
9		7.1250	27.28	9.73	37.01	60.00	-22.99	QP	
10		7.1250	13.01	9.73	22.74	50.00	-27.26	AVG	
11		12.1446	16.26	9.72	25.98	60.00	-34.02	QP	
12		12.1446	10.73	9.72	20.45	50.00	-29.55	AVG	

REMARKS:

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

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

Test Mode	Idle	Tested Date	2025/3/4
Test Frequency	-	Phase	Line



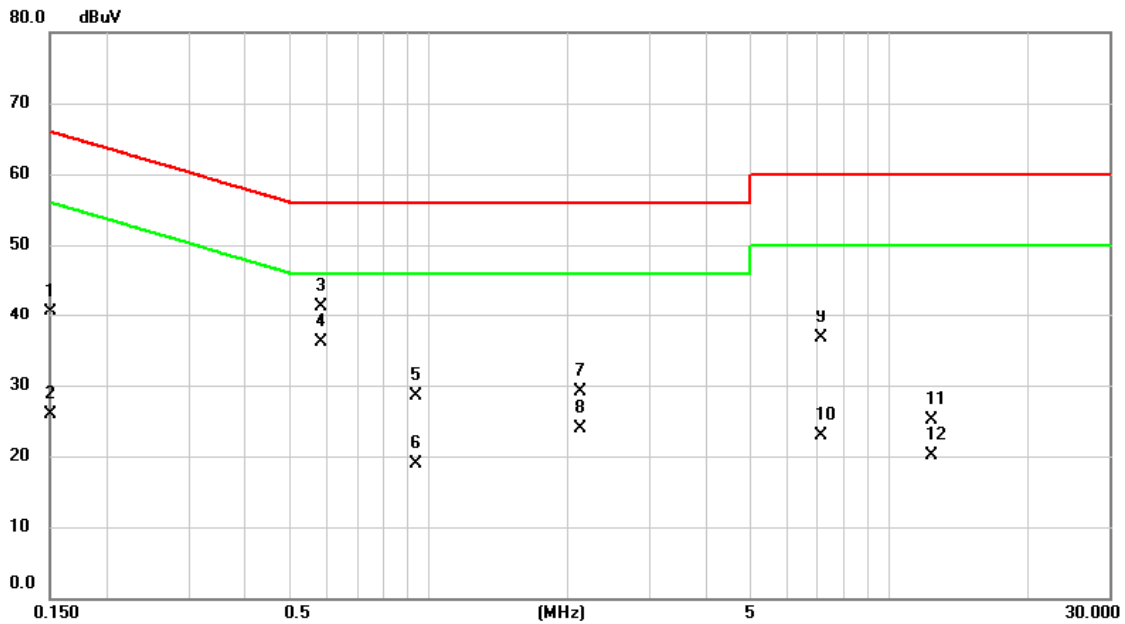
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1500	30.82	9.67	40.49	66.00	-25.51	QP	
2		0.1500	14.73	9.67	24.40	56.00	-31.60	AVG	
3		0.5820	32.14	9.57	41.71	56.00	-14.29	QP	
4	*	0.5820	23.86	9.57	33.43	46.00	-12.57	AVG	
5		0.9532	19.78	9.56	29.34	56.00	-26.66	QP	
6		0.9532	5.51	9.56	15.07	46.00	-30.93	AVG	
7		2.1030	19.68	9.55	29.23	56.00	-26.77	QP	
8		2.1030	11.12	9.55	20.67	46.00	-25.33	AVG	
9		7.1115	27.95	9.70	37.65	60.00	-22.35	QP	
10		7.1115	11.07	9.70	20.77	50.00	-29.23	AVG	
11		13.0538	15.31	9.69	25.00	60.00	-35.00	QP	
12		13.0538	5.94	9.69	15.63	50.00	-34.37	AVG	

REMARKS:

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

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

Test Mode	Idle	Tested Date	2025/3/4
Test Frequency	-	Phase	Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	30.81	9.65	40.46	66.00	-25.54	QP	
2		0.1500	16.26	9.65	25.91	56.00	-30.09	AVG	
3		0.5842	31.80	9.56	41.36	56.00	-14.64	QP	
4	*	0.5842	26.63	9.56	36.19	46.00	-9.81	AVG	
5		0.9397	18.91	9.55	28.46	56.00	-27.54	QP	
6		0.9397	9.33	9.55	18.88	46.00	-27.12	AVG	
7		2.1233	19.59	9.57	29.16	56.00	-26.84	QP	
8		2.1233	14.30	9.57	23.87	46.00	-22.13	AVG	
9		7.1160	27.06	9.73	36.79	60.00	-23.21	QP	
10		7.1160	13.17	9.73	22.90	50.00	-27.10	AVG	
11		12.3450	15.33	9.73	25.06	60.00	-34.94	QP	
12		12.3450	10.31	9.73	20.04	50.00	-29.96	AVG	

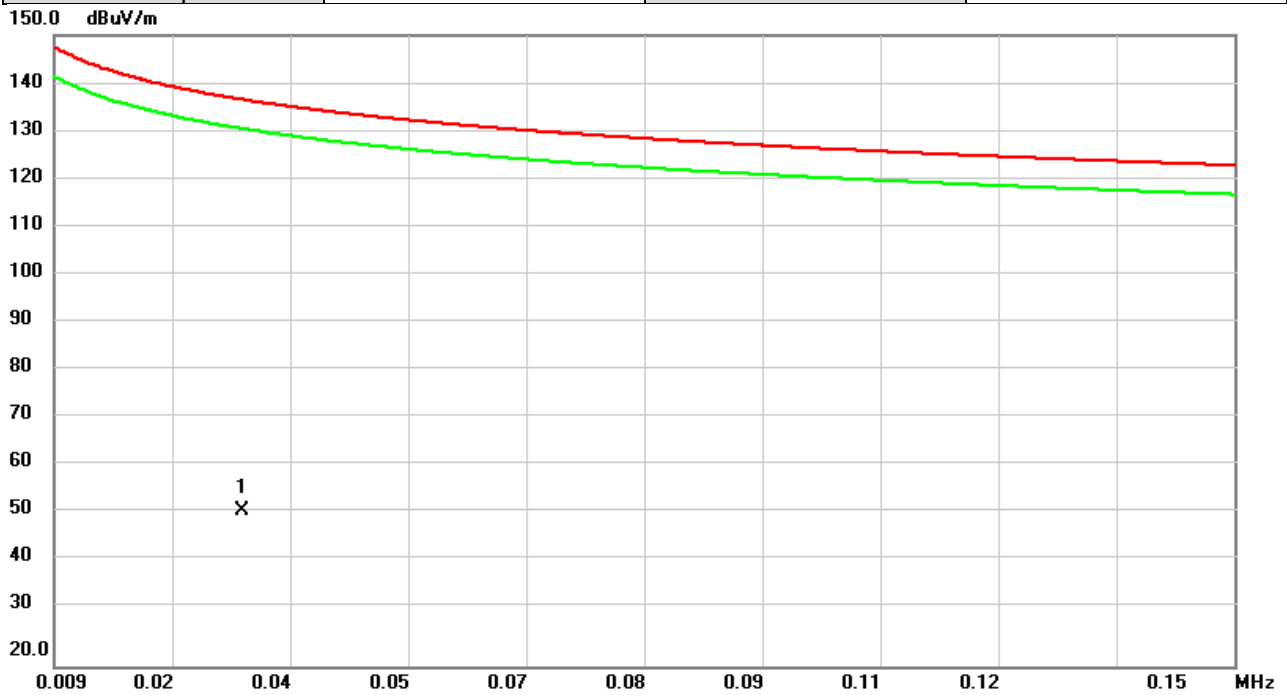
REMARKS:

(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	2025/3/17
Test Frequency	2412MHz	Polarization	Vertical
Temp	22°C	Hum.	57%

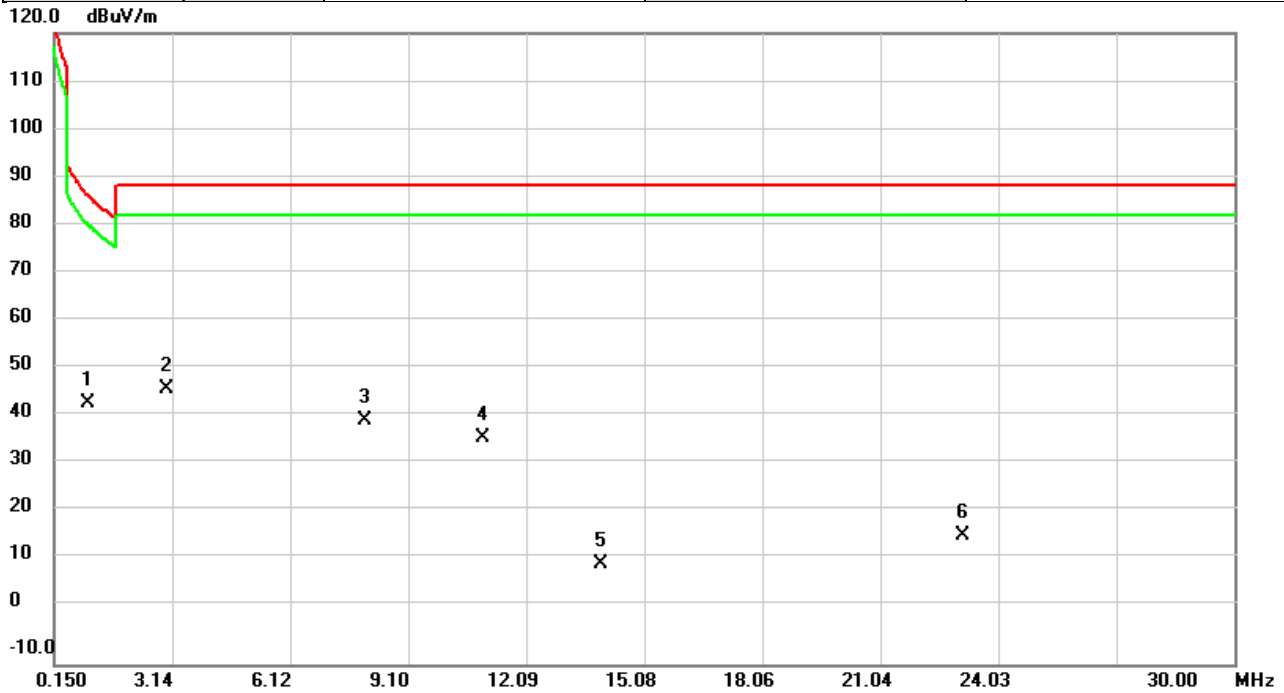


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0314	24.03	28.01	52.04	136.75	-84.71	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/3/17
Test Frequency	2412MHz	Polarization	Vertical
Temp	22°C	Hum.	57%

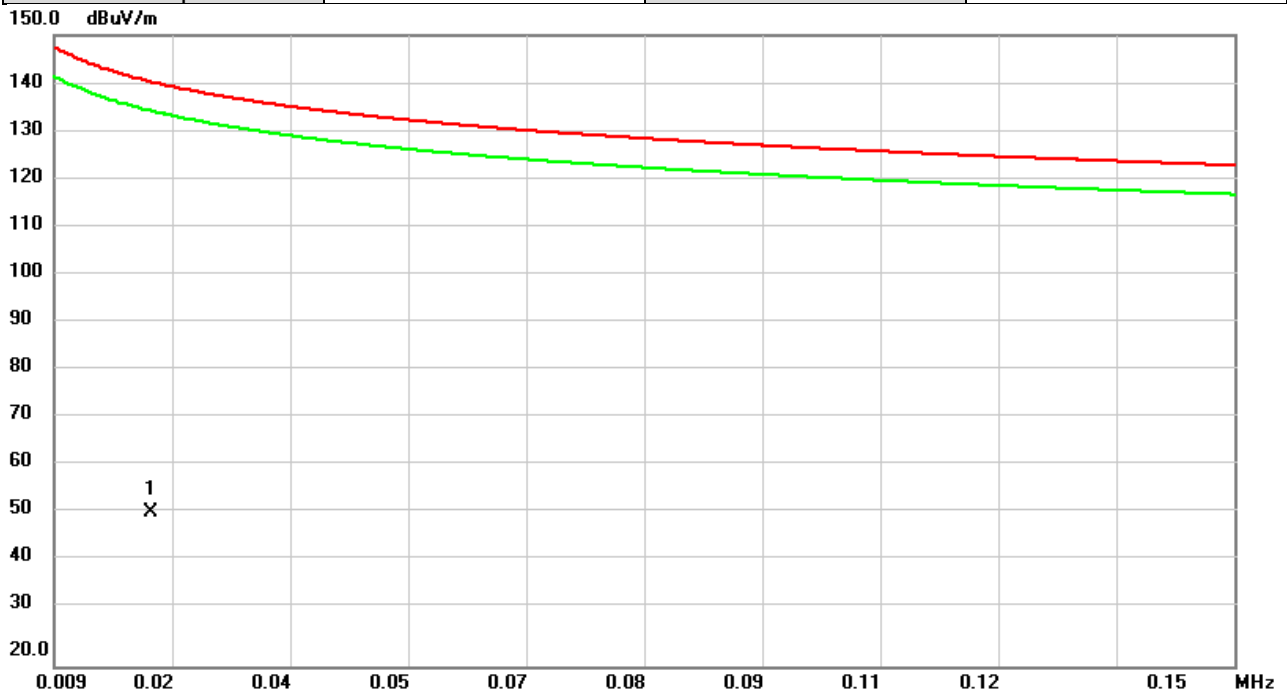


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.9997	43.61	0.23	43.84	86.68	-42.84	QP	
2	*	3.0006	50.40	-3.75	46.65	88.62	-41.97	QP	
3		8.0004	43.60	-3.54	40.06	88.62	-48.56	QP	
4		11.0004	39.78	-3.07	36.71	88.62	-51.91	QP	
5		13.9974	13.85	-3.36	10.49	88.62	-78.13	QP	
6		23.1404	19.86	-3.31	16.55	88.62	-72.07	QP	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/3/17
Test Frequency	2412MHz	Polarization	Horizontal
Temp	22°C	Hum.	57%

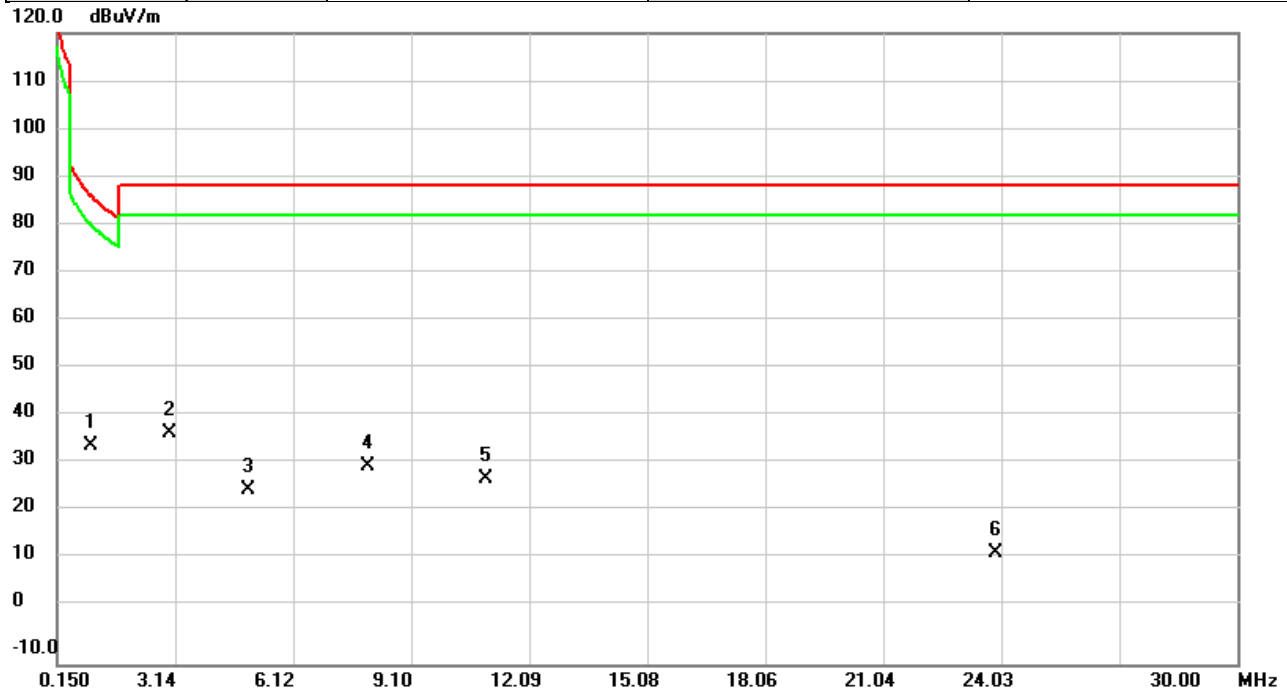


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0206	19.93	31.78	51.71	140.41	-88.70	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/3/17
Test Frequency	2412MHz	Polarization	Horizontal
Temp	22°C	Hum.	57%



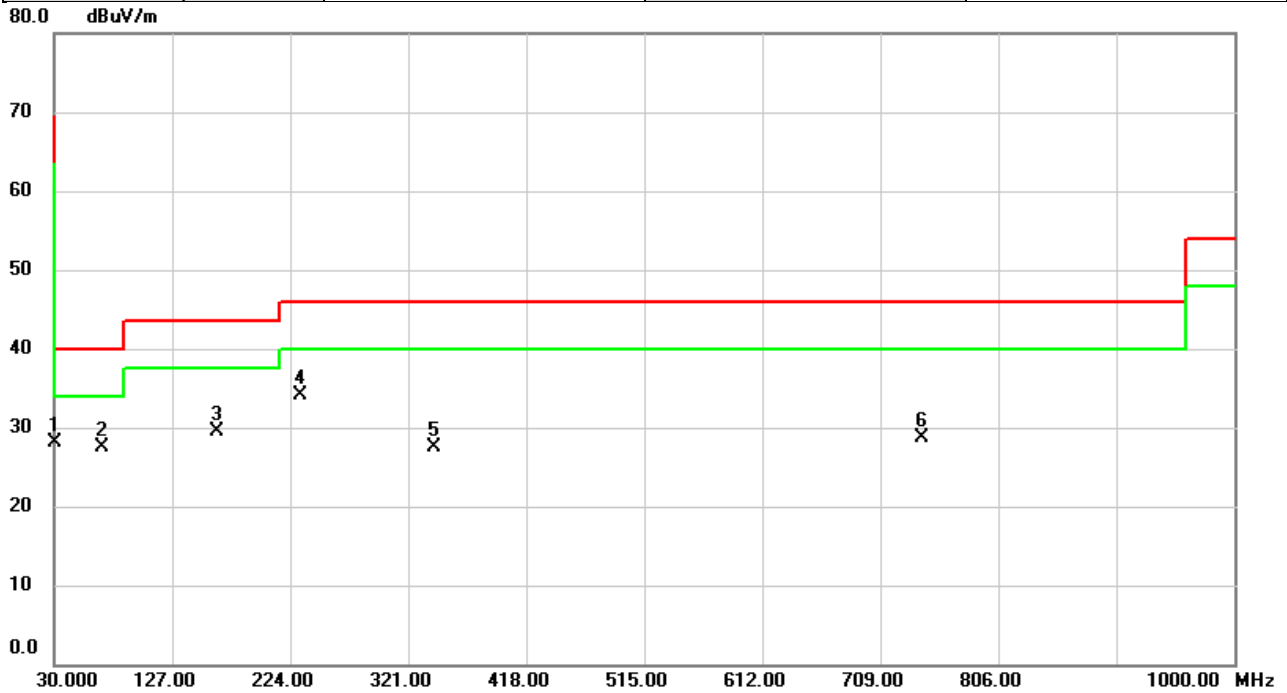
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.9997	34.85	0.23	35.08	86.68	-51.60	QP	
2	*	2.9996	41.43	-3.75	37.68	88.62	-50.94	QP	
3		5.0006	30.31	-4.38	25.93	88.62	-62.69	QP	
4		8.0004	34.26	-3.54	30.72	88.62	-57.90	QP	
5		11.0004	31.20	-3.07	28.13	88.62	-60.49	QP	
6		23.8716	15.93	-3.17	12.76	88.62	-75.86	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	2025/3/14
Test Frequency	2412MHz	Polarization	Vertical
Temp	24°C	Hum.	59%

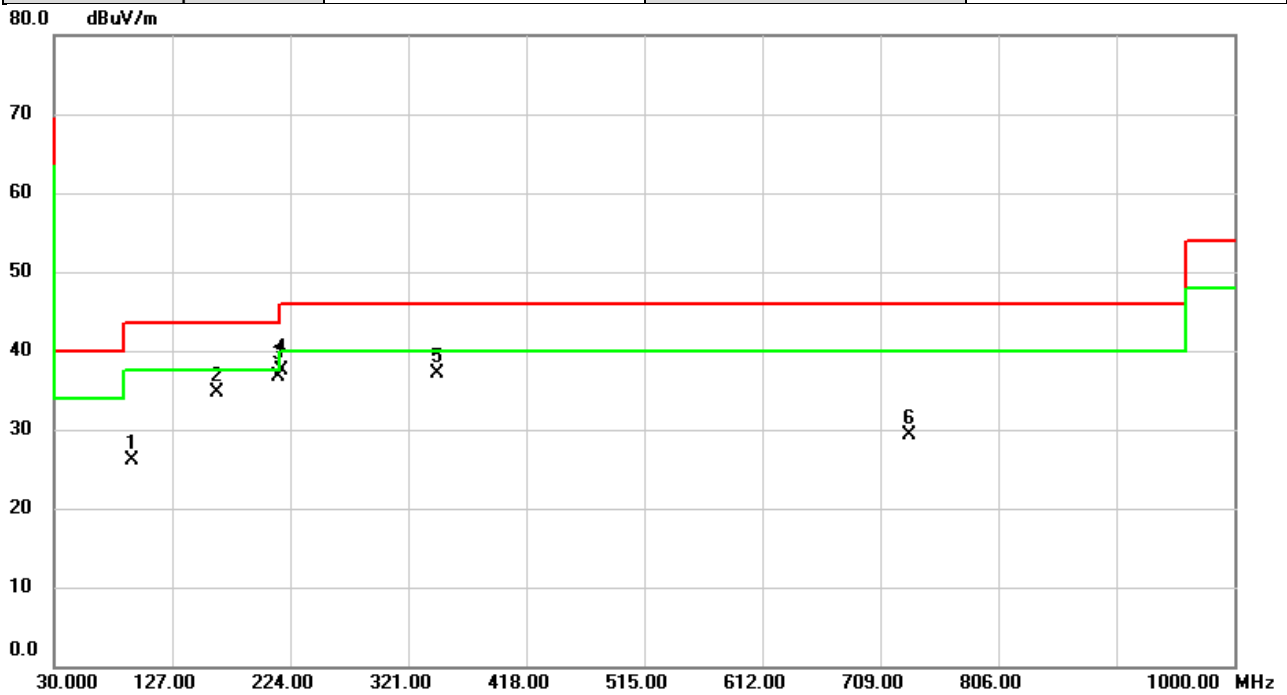


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		30.0000	41.46	-13.40	28.06	40.00	-11.94	peak	
2		69.3820	41.63	-14.22	27.41	40.00	-12.59	peak	
3		164.2802	41.58	-12.08	29.50	43.50	-14.00	peak	
4	*	232.6653	48.51	-14.32	34.19	46.00	-11.81	peak	
5		342.0166	38.00	-10.41	27.59	46.00	-18.41	peak	
6		743.7582	30.45	-1.68	28.77	46.00	-17.23	peak	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/3/14
Test Frequency	2412MHz	Polarization	Horizontal
Temp	24°C	Hum.	59%



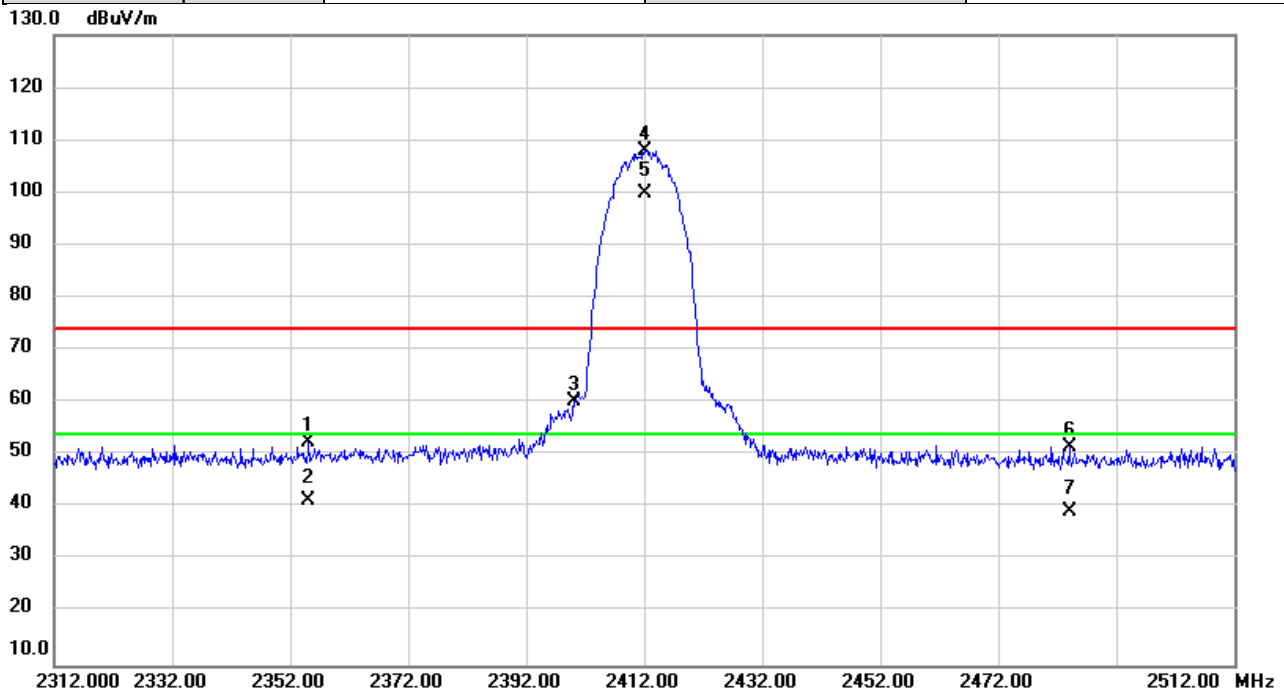
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		94.6020	43.42	-17.32	26.10	43.50	-17.40	peak	
2		163.3426	46.67	-12.02	34.65	43.50	-8.85	peak	
3	*	214.4616	52.17	-15.40	36.77	43.50	-6.73	QP	
4		217.3716	52.83	-15.36	37.47	46.00	-8.53	QP	
5		344.2800	47.57	-10.37	37.20	46.00	-8.80	peak	
6		732.7325	31.26	-1.92	29.34	46.00	-16.66	peak	

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	2025/3/12
Test Frequency	2412MHz	Polarization	Horizontal
Temp	27°C	Hum.	65%



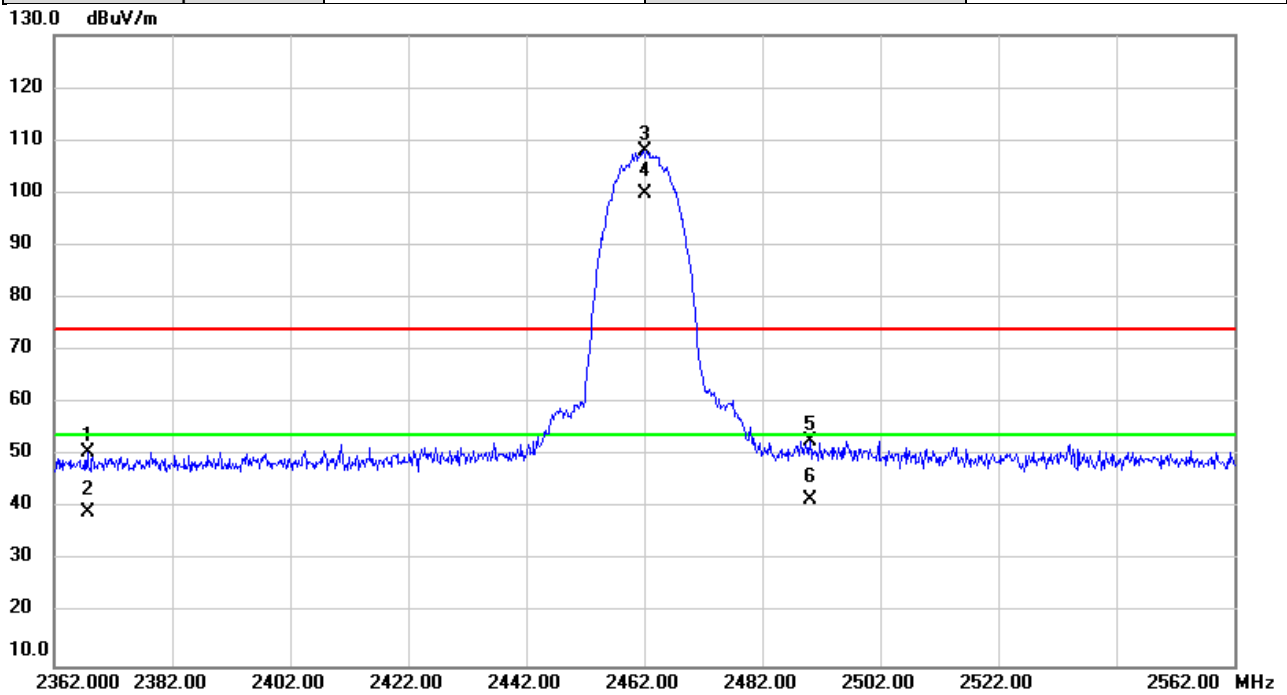
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2355.013	56.77	-4.19	52.58	74.00	-21.42	peak	
2		2355.013	45.45	-4.19	41.26	54.00	-12.74	AVG	
3		2400.000	64.48	-4.14	60.34	74.00	-13.66	peak	NoLimit
4	X	2412.000	112.12	-4.13	107.99	74.00	33.99	peak	NoLimit
5	*	2412.000	103.90	-4.13	99.77	54.00	45.77	AVG	NoLimit
6		2484.027	55.65	-4.04	51.61	74.00	-22.39	peak	
7		2484.027	43.40	-4.04	39.36	54.00	-14.64	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11b	Test Date	2025/3/12
Test Frequency	2462MHz	Polarization	Horizontal
Temp	27°C	Hum.	65%

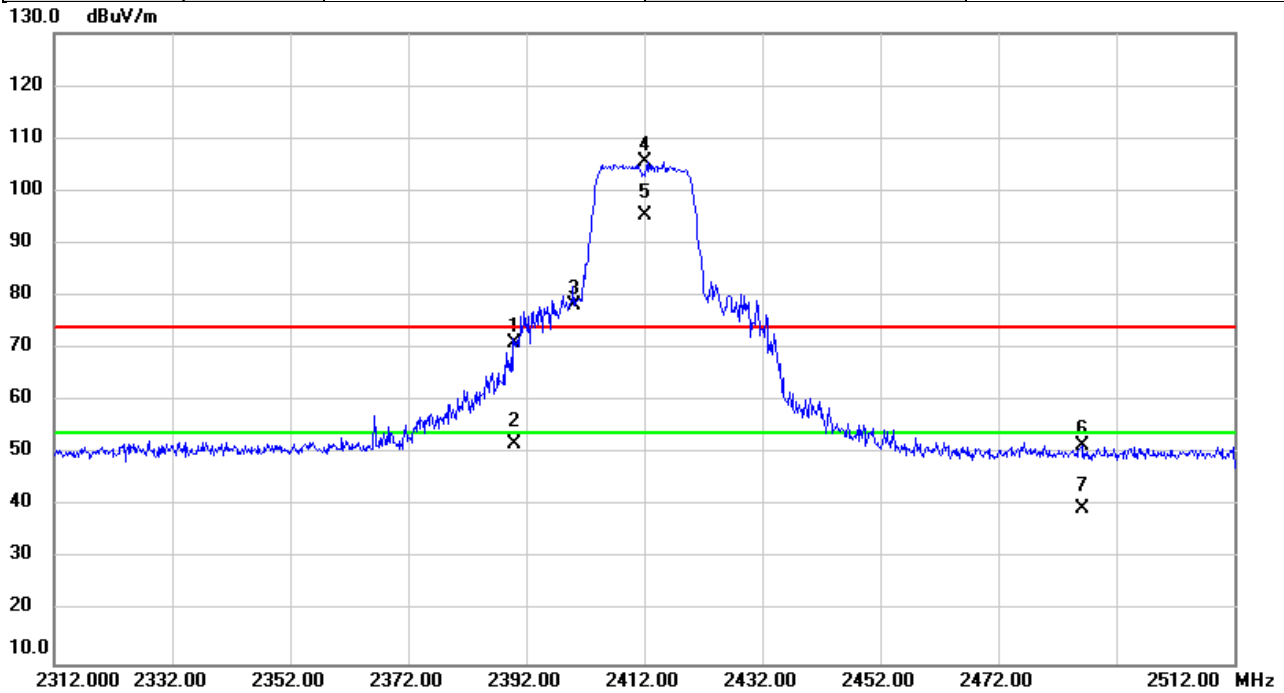


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2367.707	54.97	-4.19	50.78	74.00	-23.22	peak	
2		2367.707	43.32	-4.19	39.13	54.00	-14.87	AVG	
3	X	2462.000	111.96	-4.07	107.89	74.00	33.89	peak	NoLimit
4	*	2462.000	103.82	-4.07	99.75	54.00	45.75	AVG	NoLimit
5		2490.087	56.74	-4.04	52.70	74.00	-21.30	peak	
6		2490.087	45.77	-4.04	41.73	54.00	-12.27	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2025/3/12
Test Frequency	2412MHz	Polarization	Horizontal
Temp	27°C	Hum.	65%



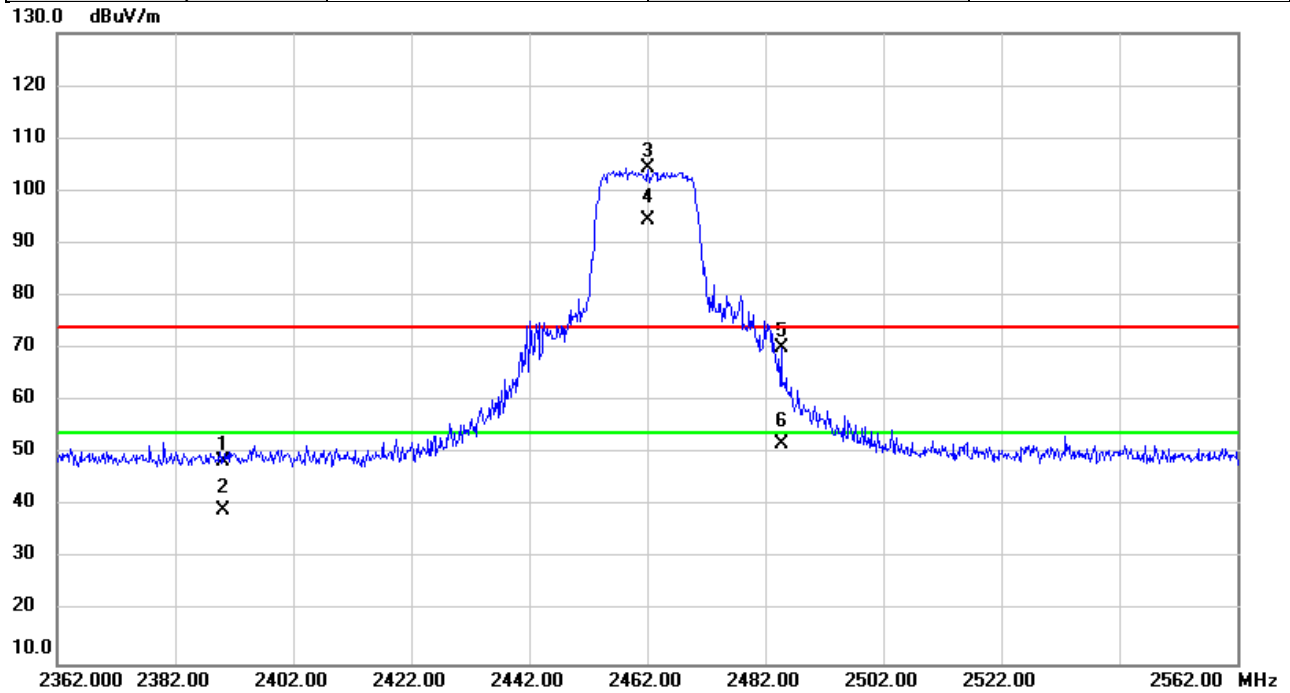
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	75.16	-4.15	71.01	74.00	-2.99	peak	
2		2390.000	55.90	-4.15	51.75	54.00	-2.25	AVG	
3	X	2400.000	82.53	-4.14	78.39	74.00	4.39	peak	NoLimit
4	X	2412.000	109.73	-4.13	105.60	74.00	31.60	peak	NoLimit
5	*	2412.000	99.46	-4.13	95.33	54.00	41.33	AVG	NoLimit
6		2486.167	55.62	-4.05	51.57	74.00	-22.43	peak	
7		2486.167	43.60	-4.05	39.55	54.00	-14.45	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11g	Test Date	2025/3/12
Test Frequency	2462MHz	Polarization	Horizontal
Temp	27°C	Hum.	65%

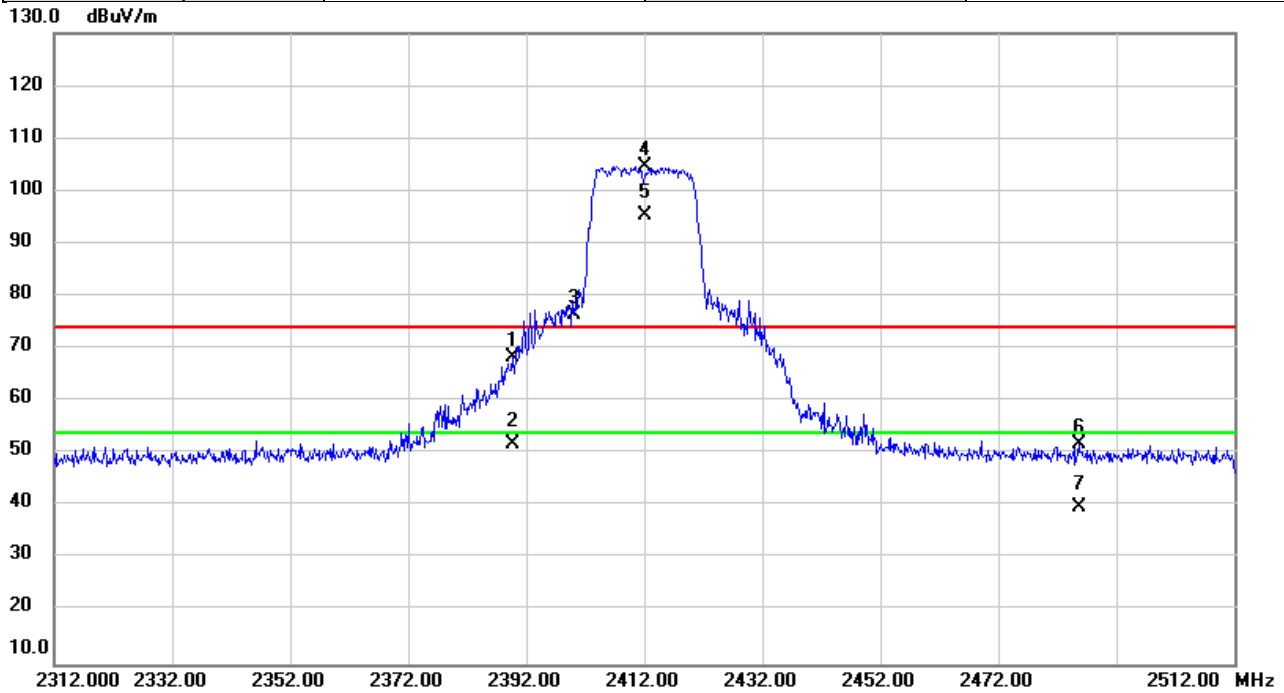


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	52.82	-4.15	48.67	74.00	-25.33	peak	
2		2390.000	43.38	-4.15	39.23	54.00	-14.77	AVG	
3	X	2462.000	108.31	-4.07	104.24	74.00	30.24	peak	NoLimit
4	*	2462.000	98.40	-4.07	94.33	54.00	40.33	AVG	NoLimit
5		2484.687	74.11	-4.05	70.06	74.00	-3.94	peak	
6		2484.687	56.02	-4.05	51.97	54.00	-2.03	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/3/12
Test Frequency	2412MHz	Polarization	Horizontal
Temp	27°C	Hum.	65%



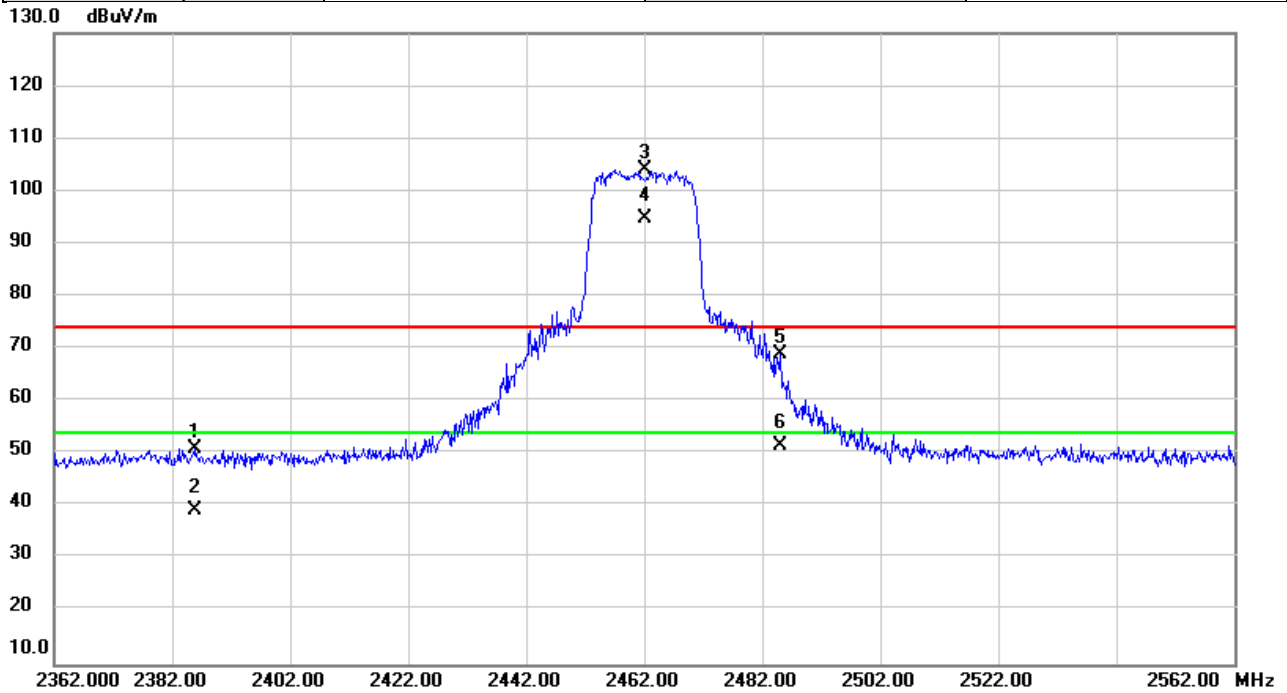
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2389.627	72.45	-4.15	68.30	74.00	-5.70	peak	
2		2389.627	56.13	-4.15	51.98	54.00	-2.02	AVG	
3	X	2400.000	80.68	-4.14	76.54	74.00	2.54	peak	NoLimit
4	X	2412.000	108.68	-4.13	104.55	74.00	30.55	peak	NoLimit
5	*	2412.000	99.40	-4.13	95.27	54.00	41.27	AVG	NoLimit
6		2485.727	55.83	-4.05	51.78	74.00	-22.22	peak	
7		2485.727	43.85	-4.05	39.80	54.00	-14.20	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/3/12
Test Frequency	2462MHz	Polarization	Horizontal
Temp	27°C	Hum.	65%

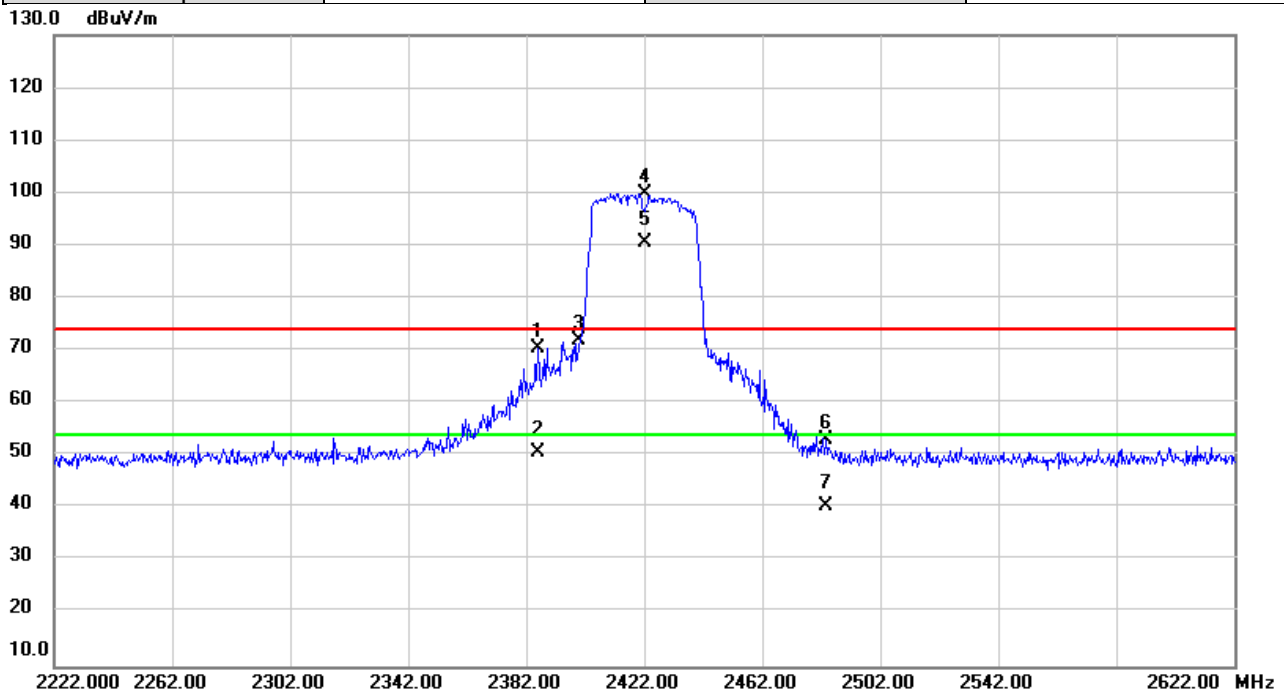


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2385.913	55.19	-4.16	51.03	74.00	-22.97	peak	
2		2385.913	43.42	-4.16	39.26	54.00	-14.74	AVG	
3	X	2462.000	108.05	-4.07	103.98	74.00	29.98	peak	NoLimit
4	*	2462.000	98.70	-4.07	94.63	54.00	40.63	AVG	NoLimit
5		2485.033	73.13	-4.05	69.08	74.00	-4.92	peak	
6		2485.033	55.64	-4.05	51.59	54.00	-2.41	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2025/3/12
Test Frequency	2422MHz	Polarization	Horizontal
Temp	27°C	Hum.	65%



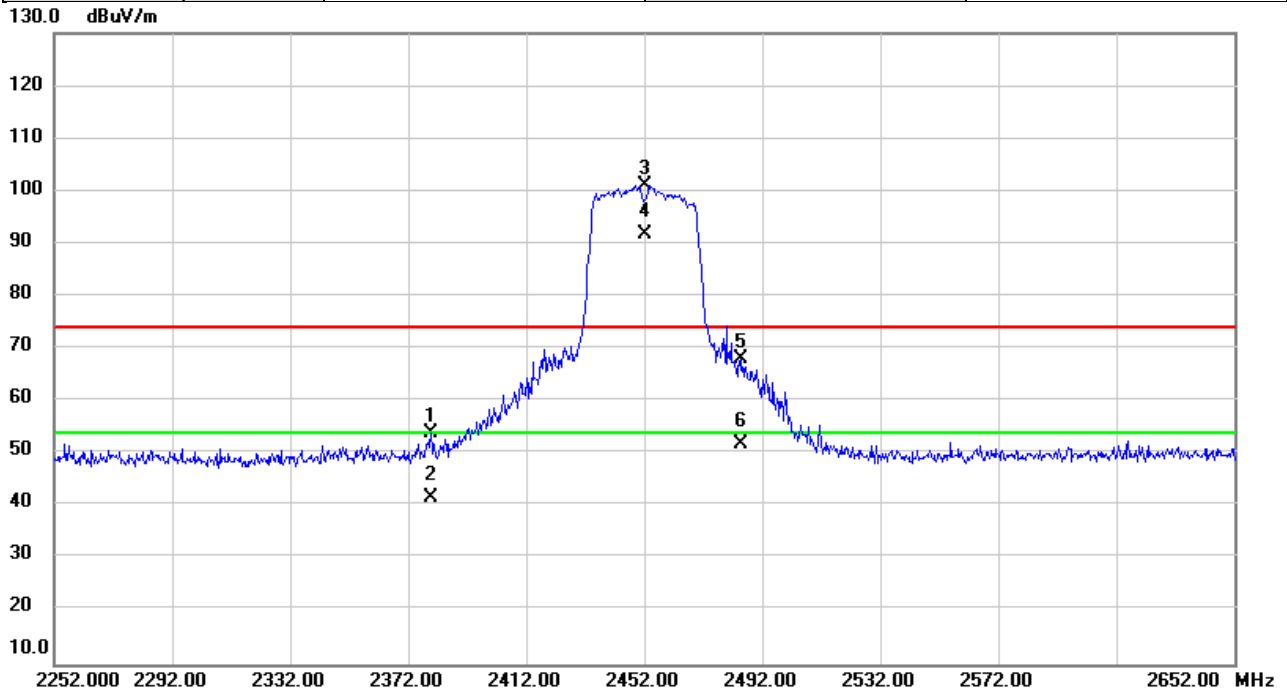
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2386.160	74.69	-4.16	70.53	74.00	-3.47	peak	
2		2386.160	54.88	-4.16	50.72	54.00	-3.28	AVG	
3		2400.000	75.96	-4.14	71.82	74.00	-2.18	peak	NoLimit
4	X	2422.000	104.06	-4.13	99.93	74.00	25.93	peak	NoLimit
5	*	2422.000	94.61	-4.13	90.48	54.00	36.48	AVG	NoLimit
6		2483.613	57.10	-4.04	53.06	74.00	-20.94	peak	
7		2483.613	44.40	-4.04	40.36	54.00	-13.64	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2025/3/12
Test Frequency	2452MHz	Polarization	Horizontal
Temp	27°C	Hum.	65%

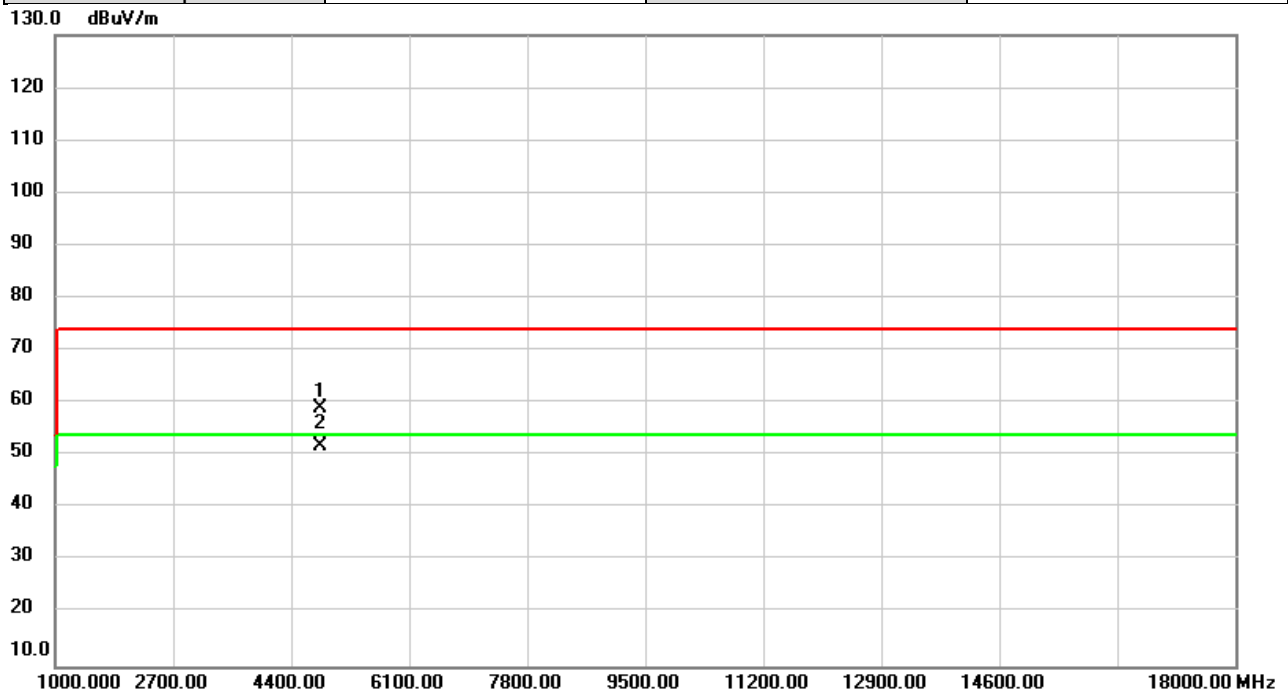


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2379.693	58.05	-4.17	53.88	74.00	-20.12	peak	
2		2379.693	45.91	-4.17	41.74	54.00	-12.26	AVG	
3	X	2452.000	105.14	-4.08	101.06	74.00	27.06	peak	NoLimit
4	*	2452.000	95.74	-4.08	91.66	54.00	37.66	AVG	NoLimit
5		2484.987	72.05	-4.05	68.00	74.00	-6.00	peak	
6		2484.987	56.03	-4.05	51.98	54.00	-2.02	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/3/12
Test Frequency	2412MHz	Polarization	Vertical
Temp	24°C	Hum.	63%

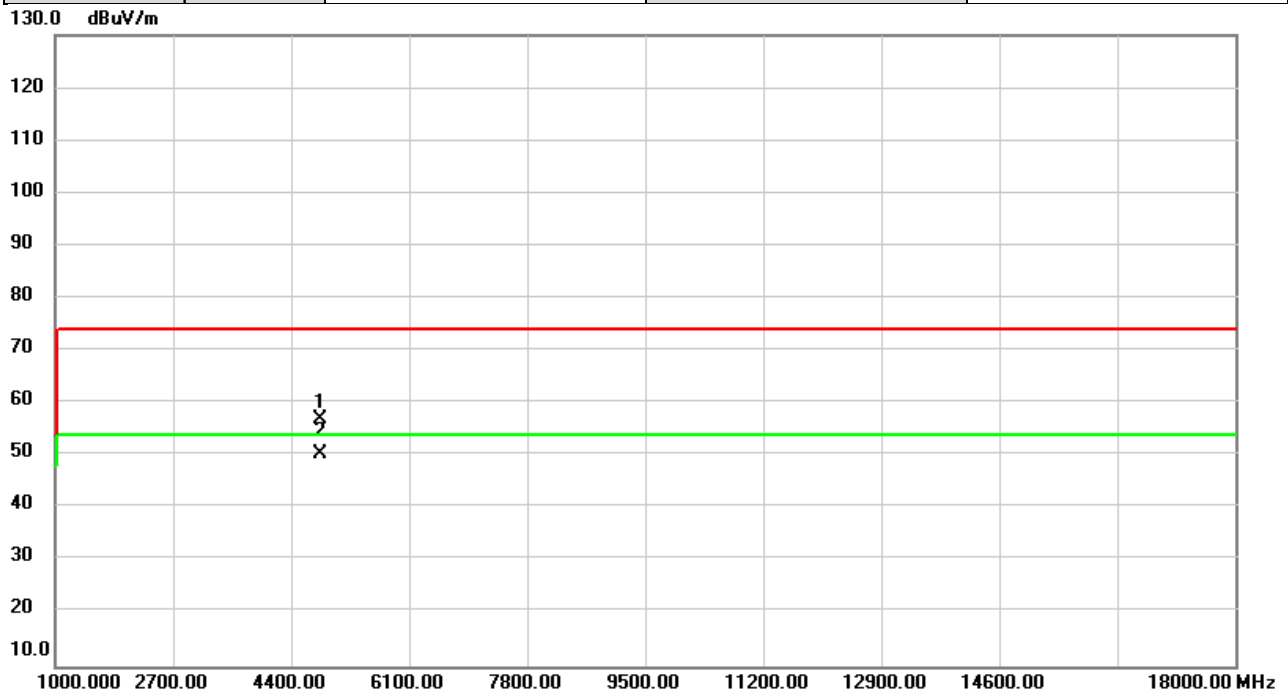


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	57.08	1.90	58.98	74.00	-15.02	peak	
2	*	4824.000	49.93	1.90	51.83	54.00	-2.17	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/3/12
Test Frequency	2412MHz	Polarization	Horizontal
Temp	24°C	Hum.	63%

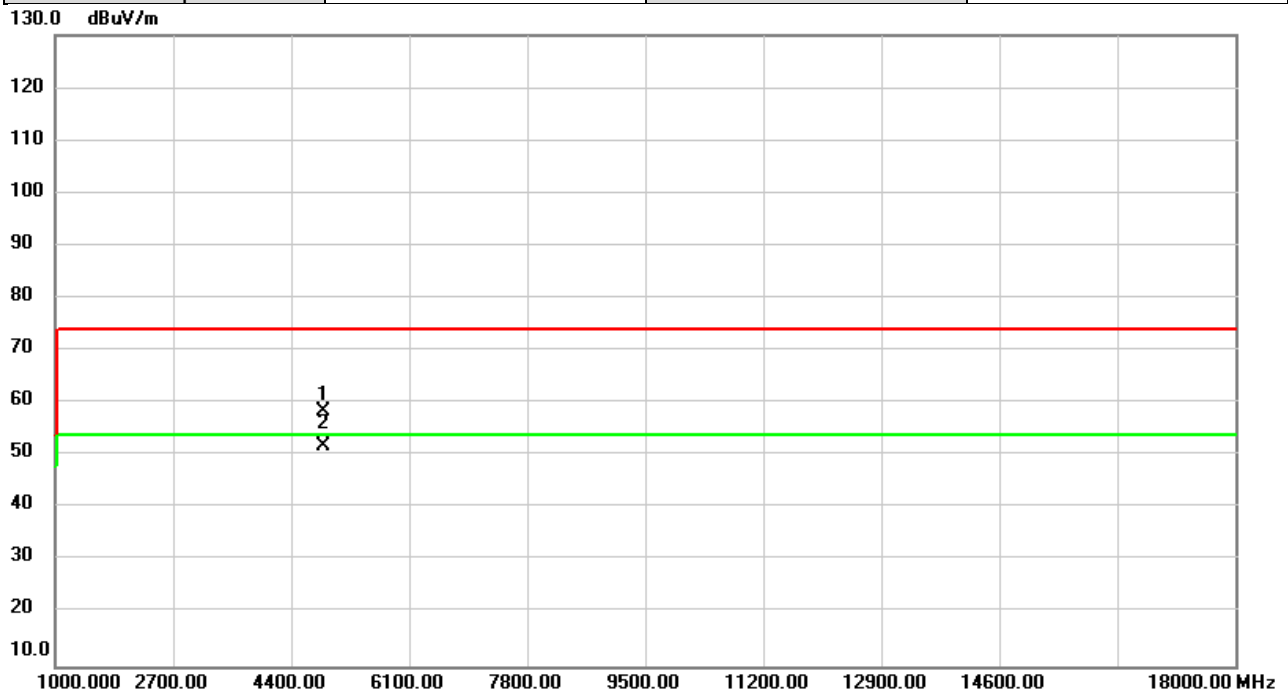


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	55.13	1.90	57.03	74.00	-16.97	peak	
2	*	4824.000	48.30	1.90	50.20	54.00	-3.80	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/3/12
Test Frequency	2437MHz	Polarization	Vertical
Temp	24°C	Hum.	63%

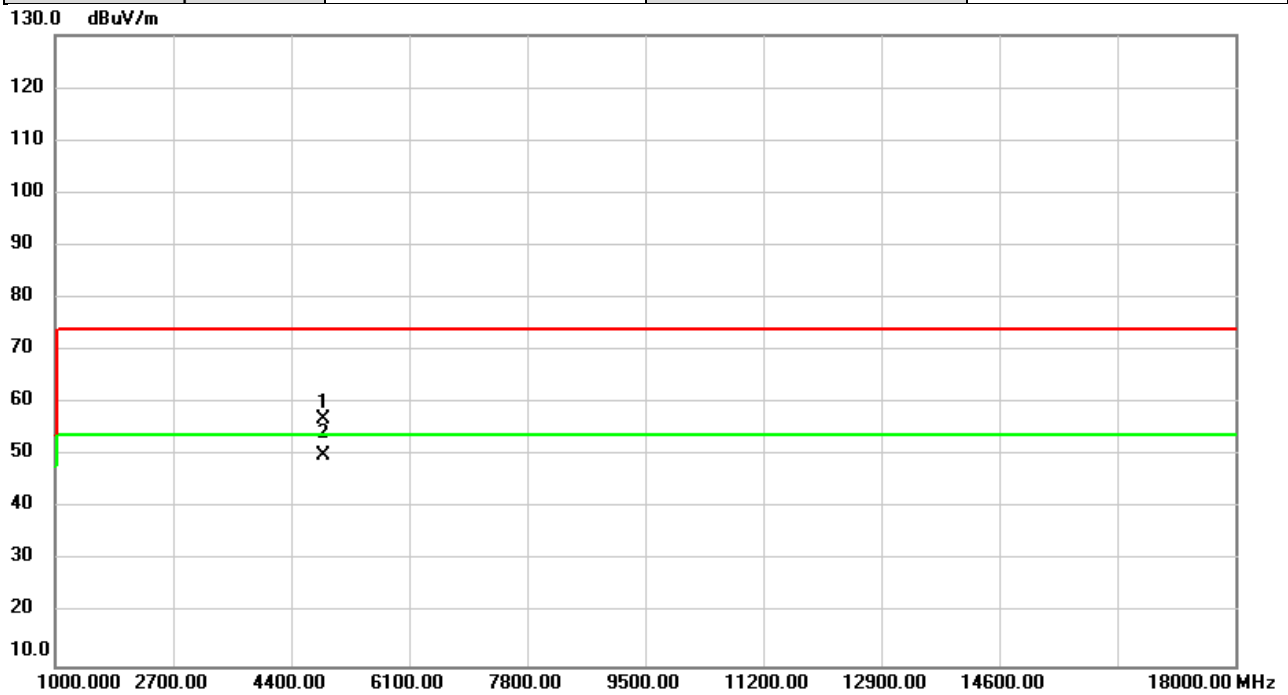


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	56.38	2.05	58.43	74.00	-15.57	peak	
2	*	4874.000	49.78	2.05	51.83	54.00	-2.17	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/3/12
Test Frequency	2437MHz	Polarization	Horizontal
Temp	24°C	Hum.	63%

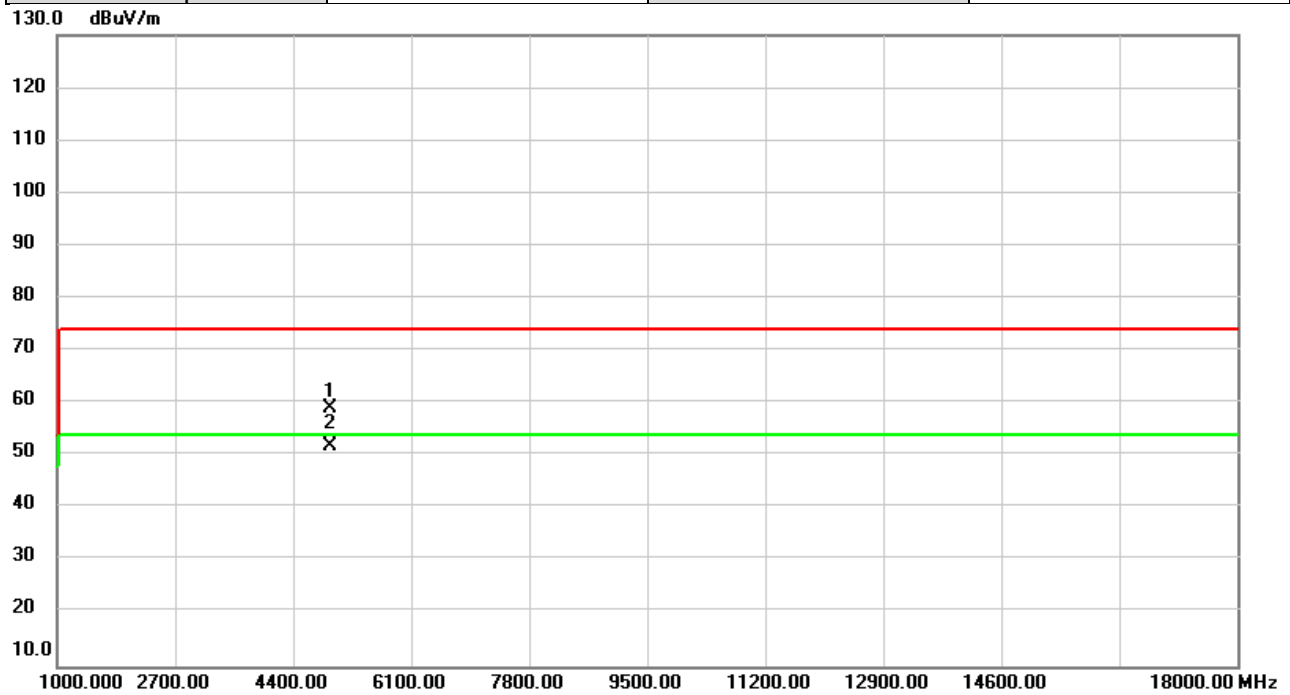


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	54.90	2.05	56.95	74.00	-17.05	peak	
2	*	4874.000	47.95	2.05	50.00	54.00	-4.00	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/3/12
Test Frequency	2462MHz	Polarization	Vertical
Temp	24°C	Hum.	63%

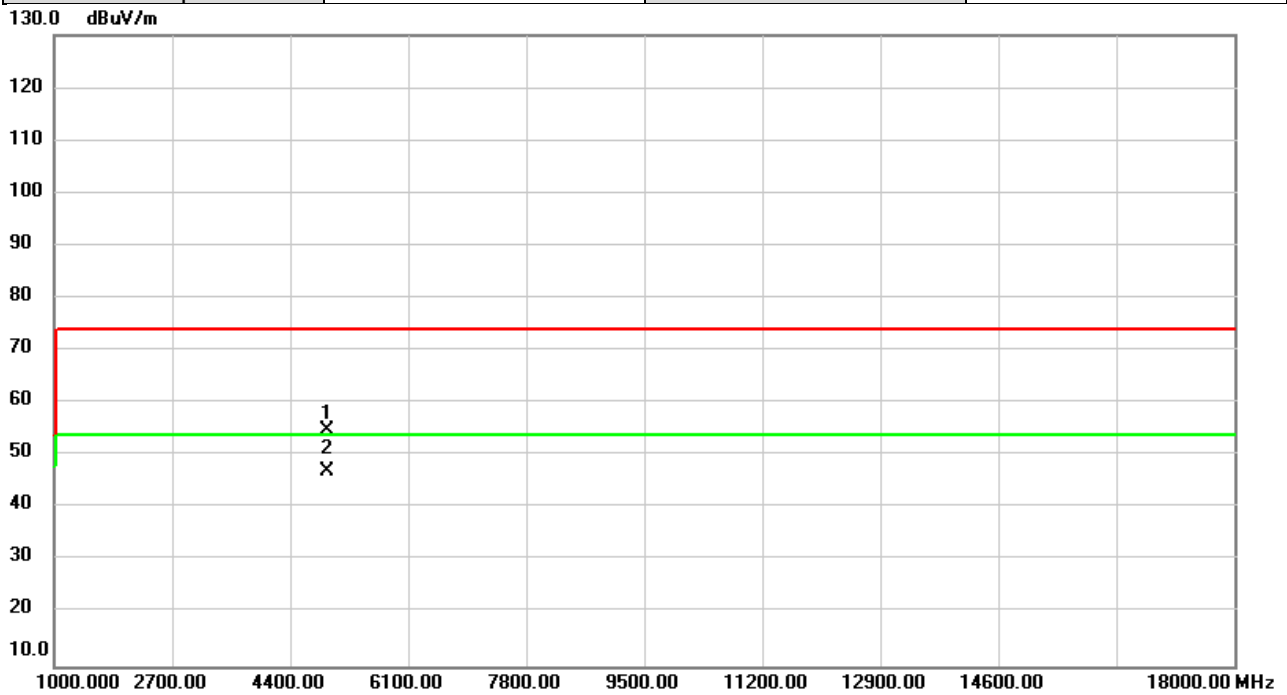


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	56.81	2.20	59.01	74.00	-14.99	peak	
2	*	4924.000	49.55	2.20	51.75	54.00	-2.25	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/3/12
Test Frequency	2462MHz	Polarization	Horizontal
Temp	24°C	Hum.	63%

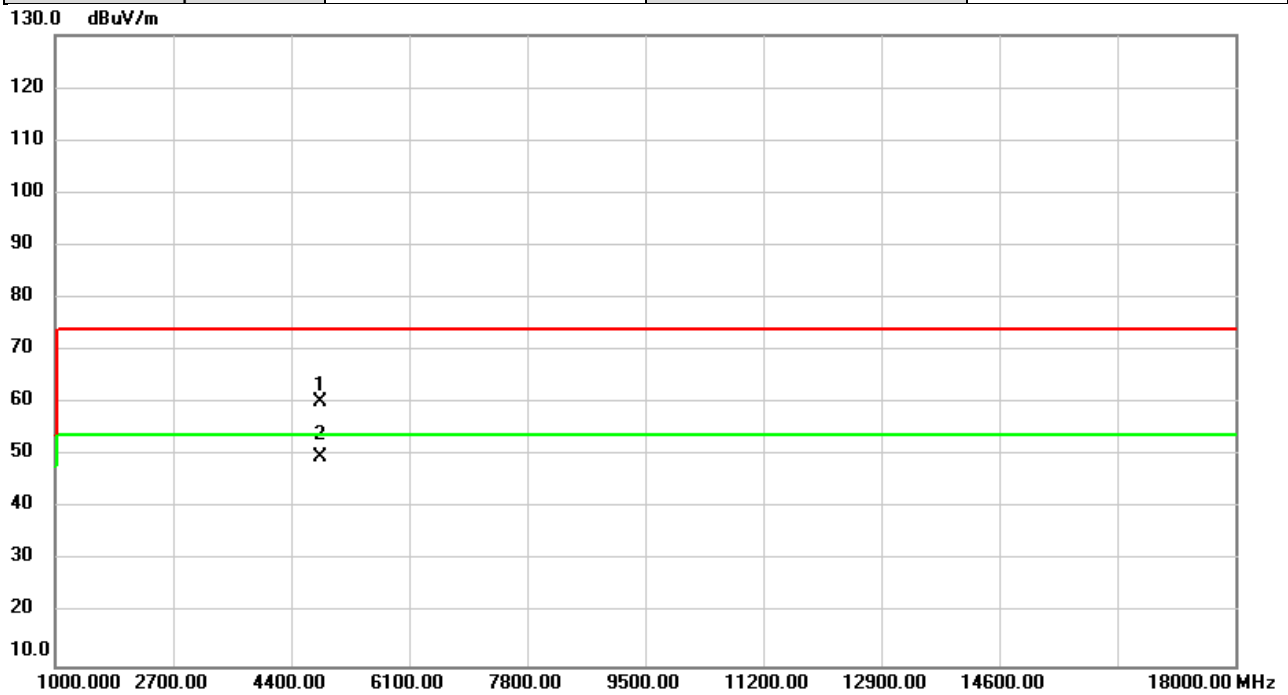


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	52.56	2.20	54.76	74.00	-19.24	peak	
2	*	4924.000	44.89	2.20	47.09	54.00	-6.91	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2025/3/12
Test Frequency	2412MHz	Polarization	Vertical
Temp	24°C	Hum.	63%

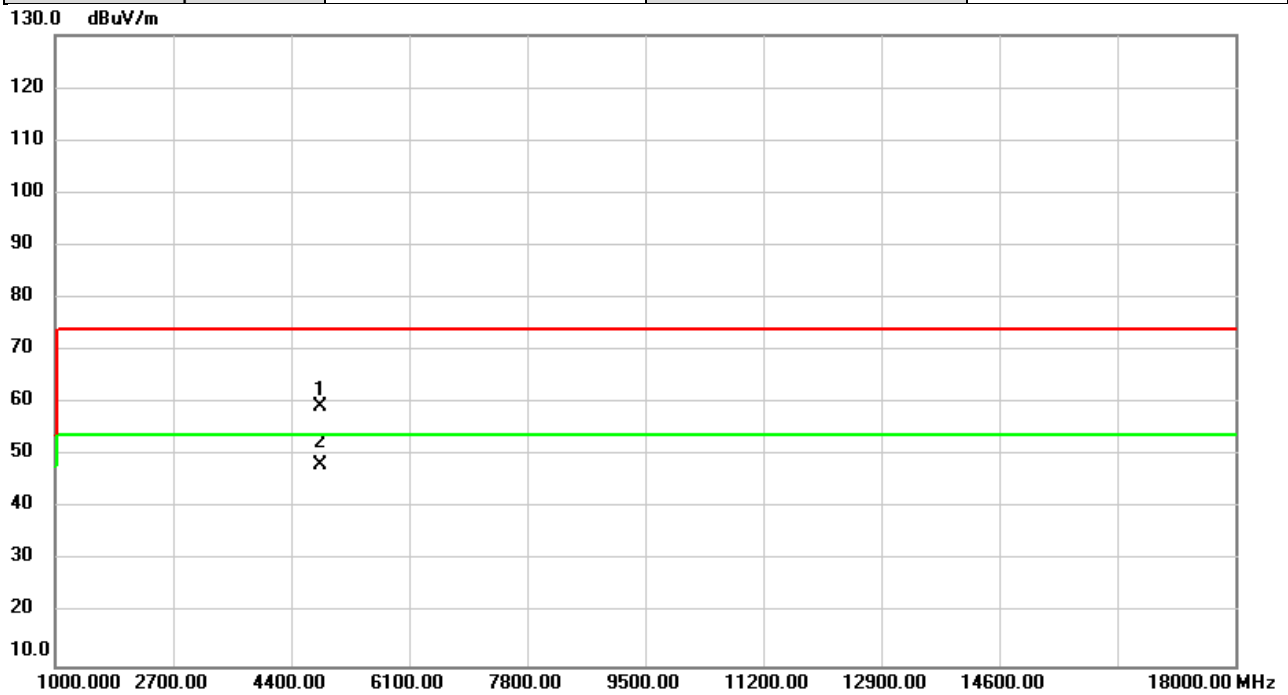


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	58.30	1.90	60.20	74.00	-13.80	peak	
2	*	4824.000	47.76	1.90	49.66	54.00	-4.34	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2025/3/12
Test Frequency	2412MHz	Polarization	Horizontal
Temp	24°C	Hum.	63%

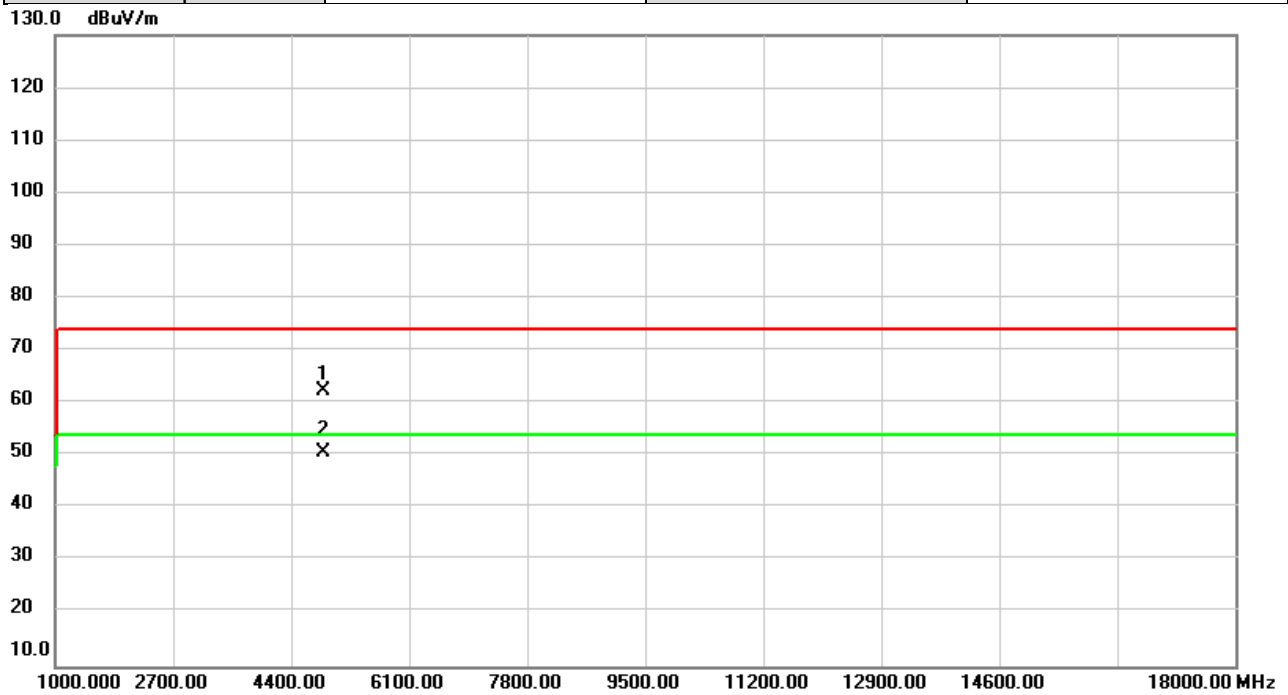


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	57.54	1.90	59.44	74.00	-14.56	peak	
2	*	4824.000	46.26	1.90	48.16	54.00	-5.84	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2025/3/12
Test Frequency	2437MHz	Polarization	Vertical
Temp	24°C	Hum.	63%

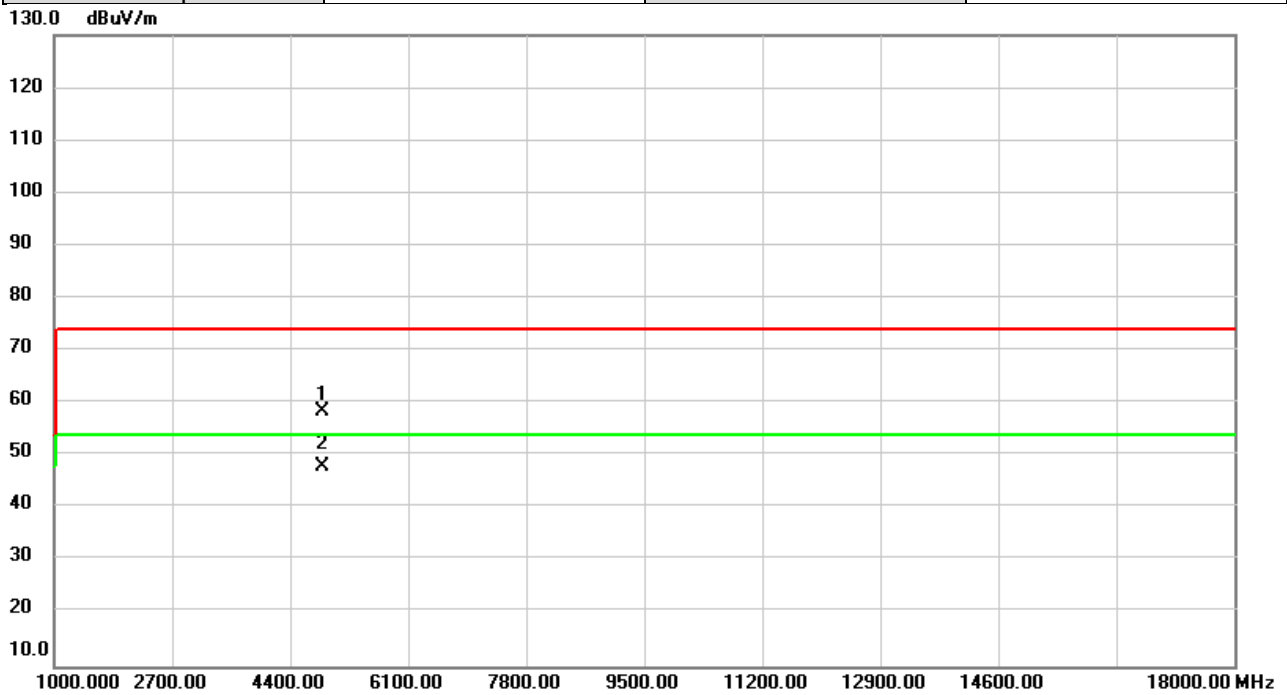


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	60.35	2.05	62.40	74.00	-11.60	peak	
2	*	4874.000	48.46	2.05	50.51	54.00	-3.49	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2025/3/12
Test Frequency	2437MHz	Polarization	Horizontal
Temp	24°C	Hum.	63%

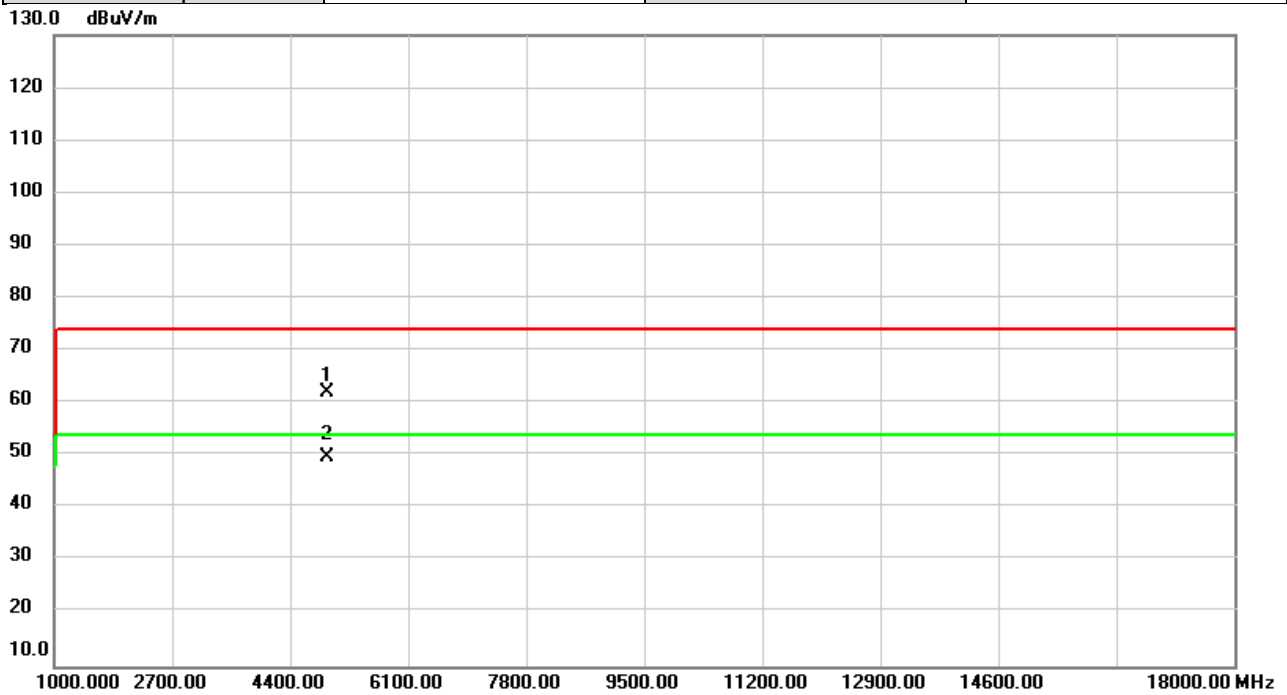


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	56.53	2.05	58.58	74.00	-15.42	peak	
2	*	4874.000	45.82	2.05	47.87	54.00	-6.13	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2025/3/12
Test Frequency	2462MHz	Polarization	Vertical
Temp	24°C	Hum.	63%

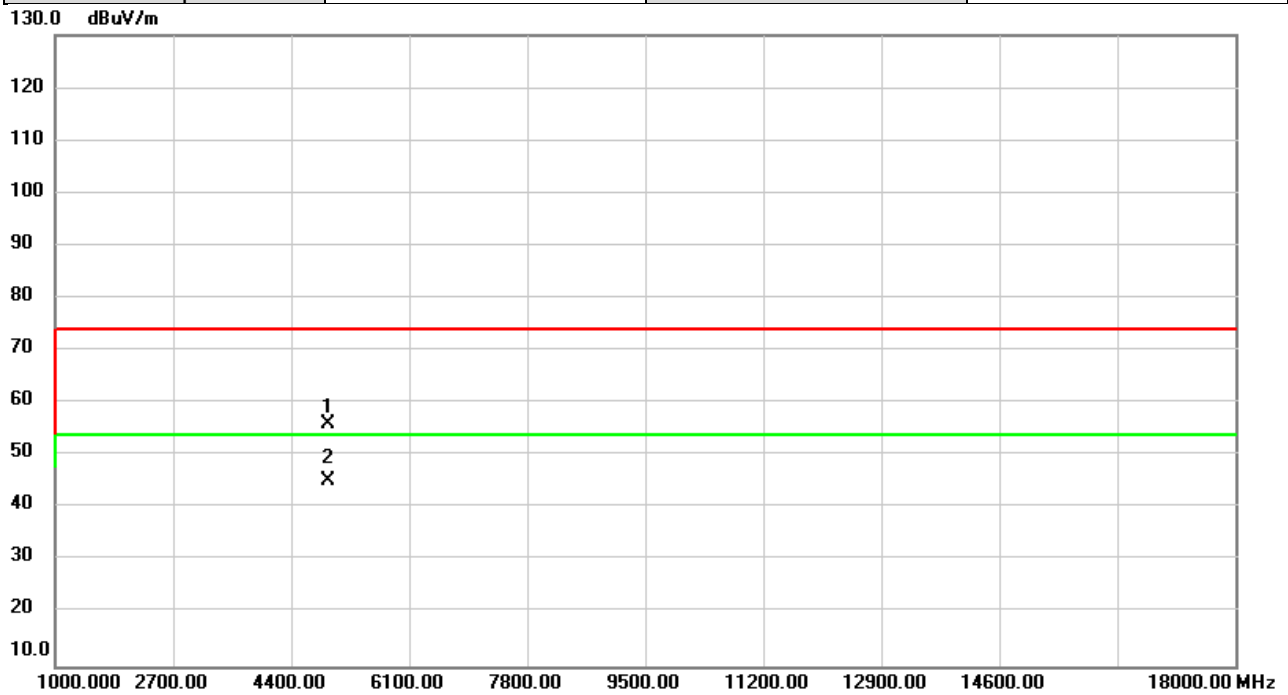


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	59.97	2.20	62.17	74.00	-11.83	peak	
2	*	4924.000	47.55	2.20	49.75	54.00	-4.25	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2025/3/12
Test Frequency	2462MHz	Polarization	Horizontal
Temp	24°C	Hum.	63%

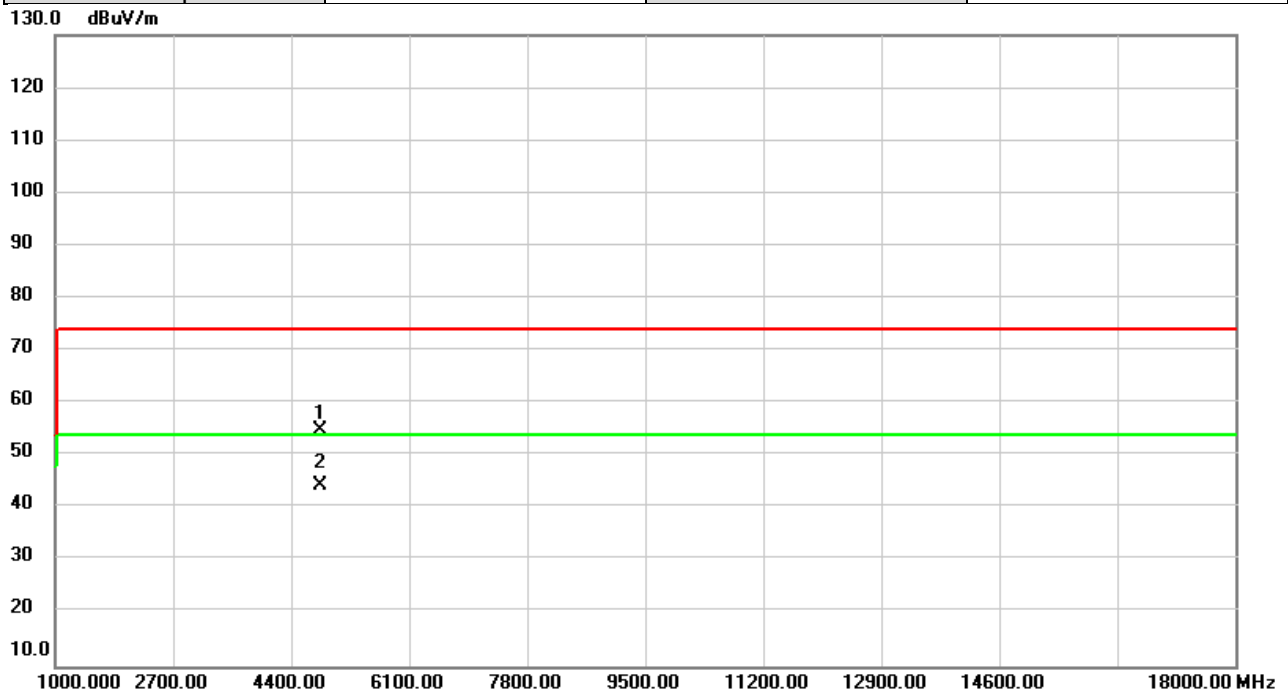


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	53.94	2.20	56.14	74.00	-17.86	peak	
2	*	4924.000	43.17	2.20	45.37	54.00	-8.63	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/3/13
Test Frequency	2412MHz	Polarization	Vertical
Temp	26°C	Hum.	54%

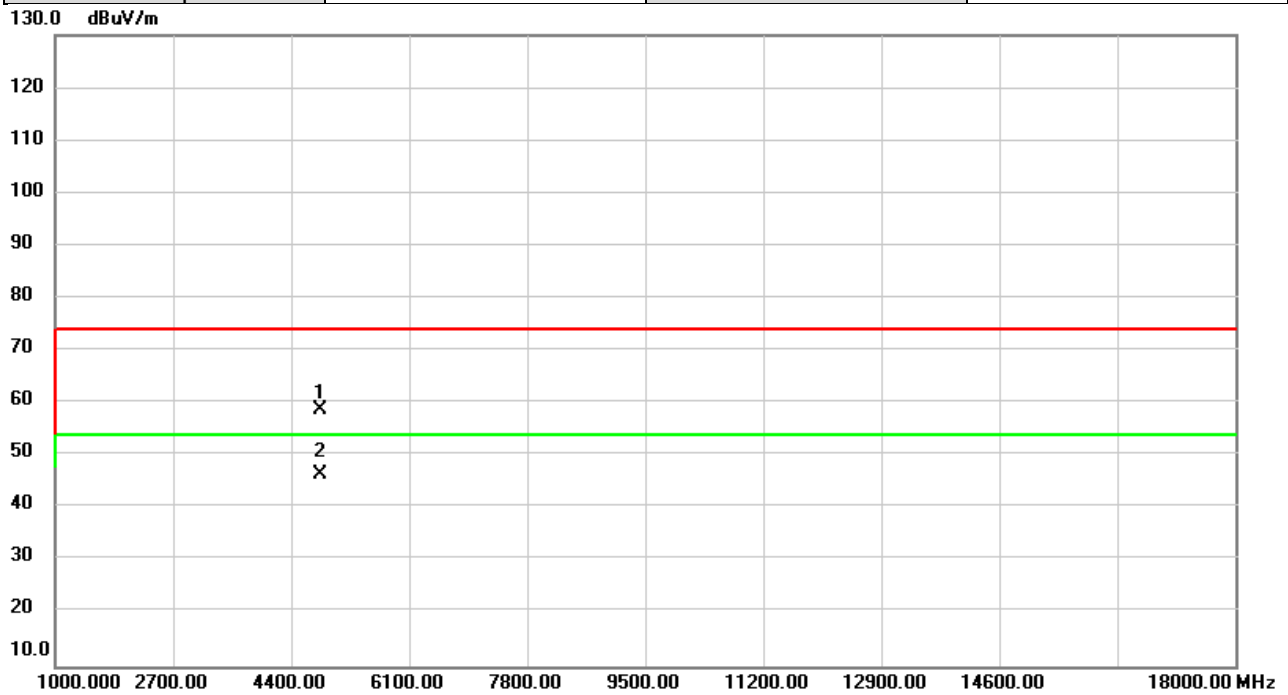


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	52.91	1.90	54.81	74.00	-19.19	peak	
2	*	4824.000	42.42	1.90	44.32	54.00	-9.68	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/3/13
Test Frequency	2412MHz	Polarization	Horizontal
Temp	26°C	Hum.	54%

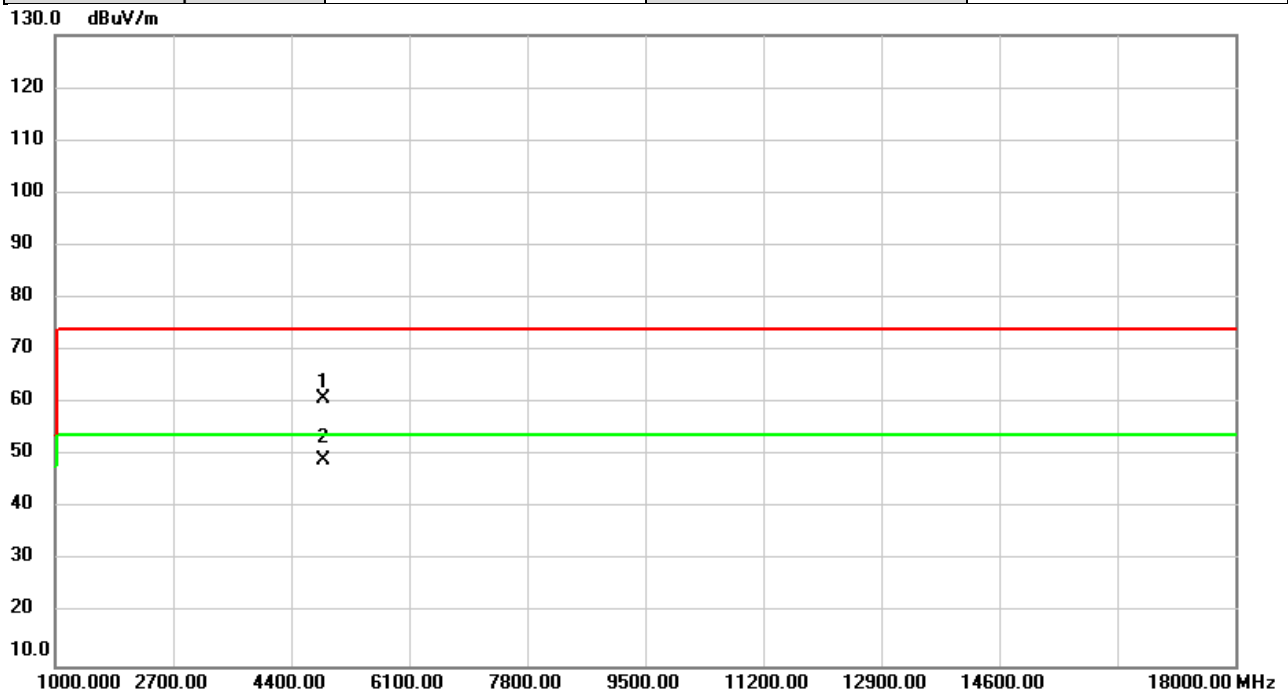


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	56.74	1.90	58.64	74.00	-15.36	peak	
2	*	4824.000	44.68	1.90	46.58	54.00	-7.42	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/3/13
Test Frequency	2437MHz	Polarization	Vertical
Temp	26°C	Hum.	54%

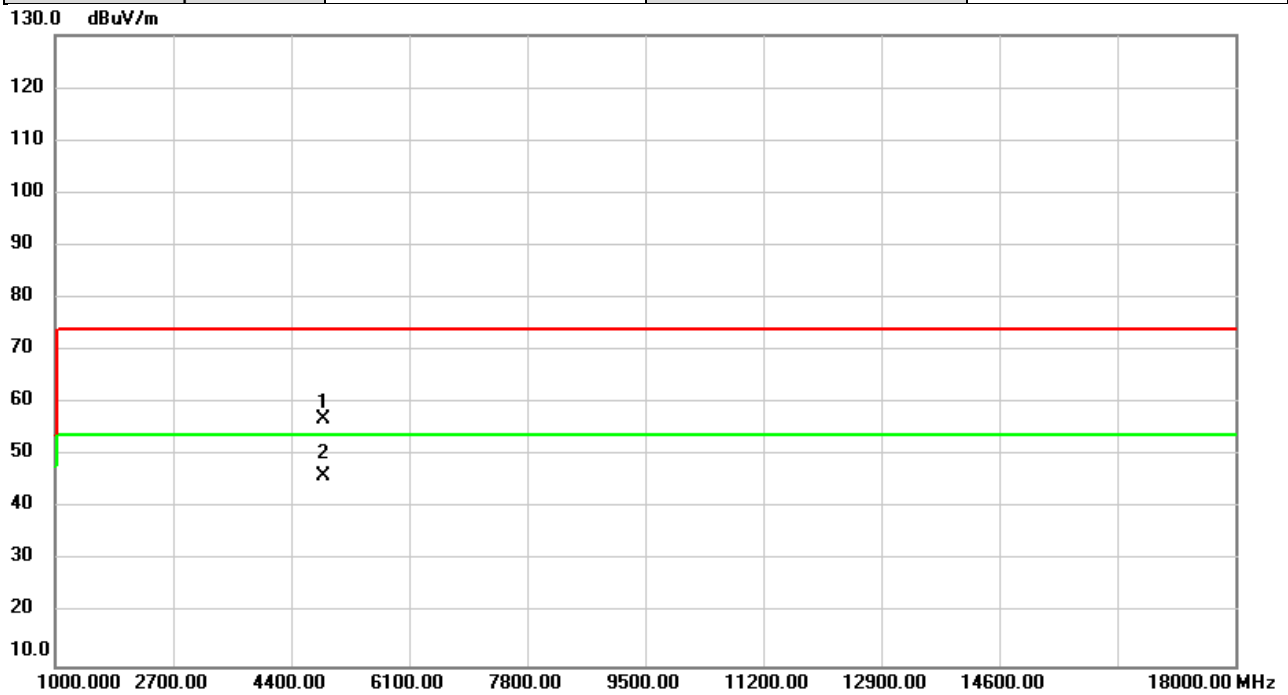


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	58.67	2.05	60.72	74.00	-13.28	peak	
2	*	4874.000	47.08	2.05	49.13	54.00	-4.87	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/3/13
Test Frequency	2437MHz	Polarization	Horizontal
Temp	26°C	Hum.	54%

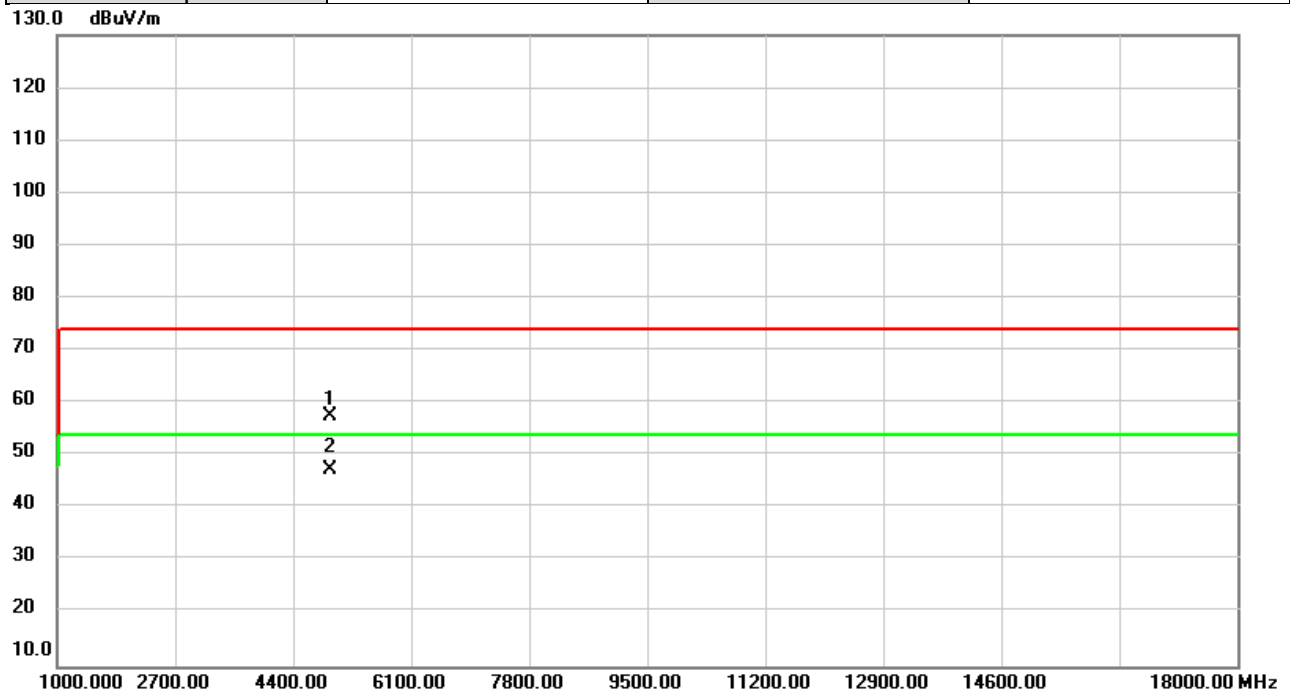


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	54.88	2.05	56.93	74.00	-17.07	peak	
2	*	4874.000	44.15	2.05	46.20	54.00	-7.80	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/3/13
Test Frequency	2462MHz	Polarization	Vertical
Temp	26°C	Hum.	54%

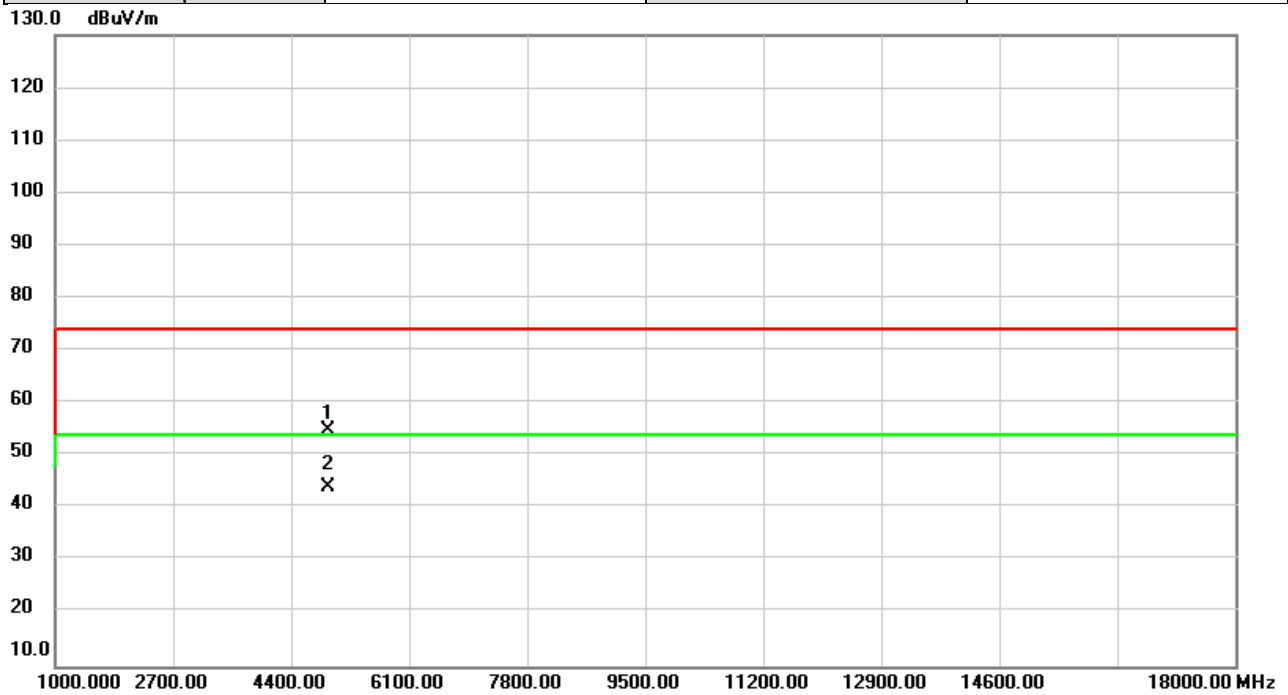


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	55.29	2.20	57.49	74.00	-16.51	peak	
2	*	4924.000	45.24	2.20	47.44	54.00	-6.56	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2025/3/13
Test Frequency	2462MHz	Polarization	Horizontal
Temp	26°C	Hum.	54%

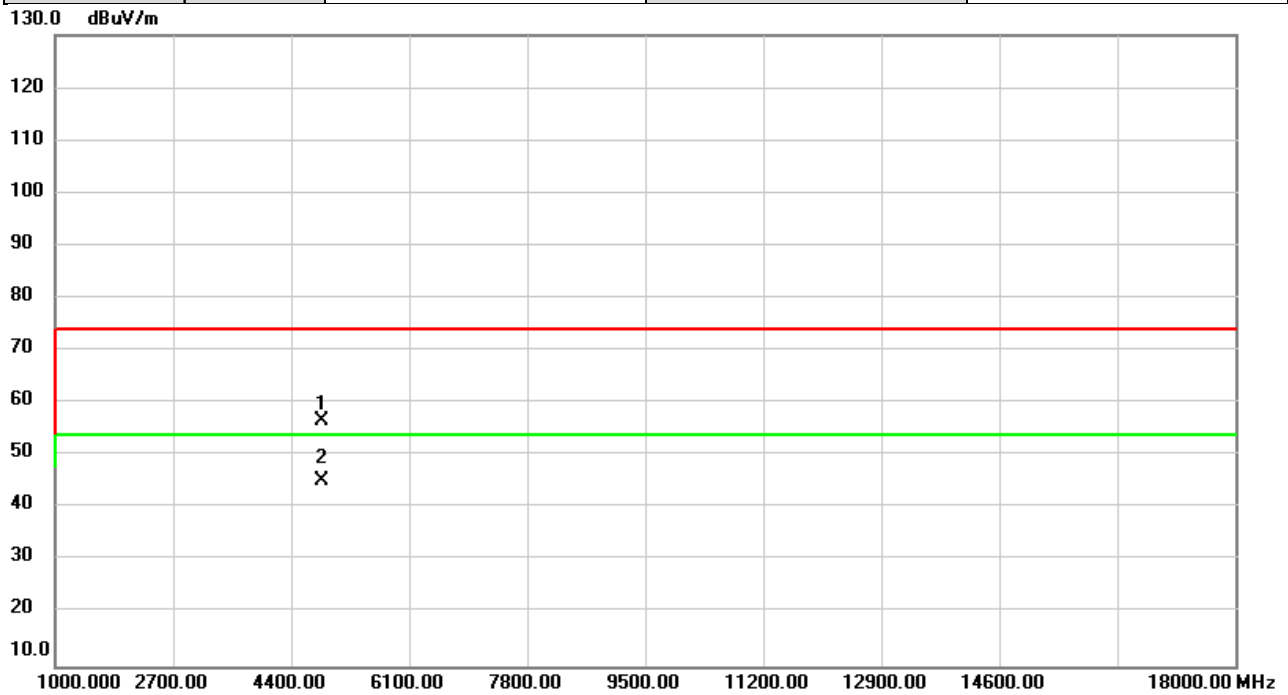


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	52.73	2.20	54.93	74.00	-19.07	peak	
2	*	4924.000	41.74	2.20	43.94	54.00	-10.06	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2025/3/13
Test Frequency	2422MHz	Polarization	Vertical
Temp	26°C	Hum.	54%

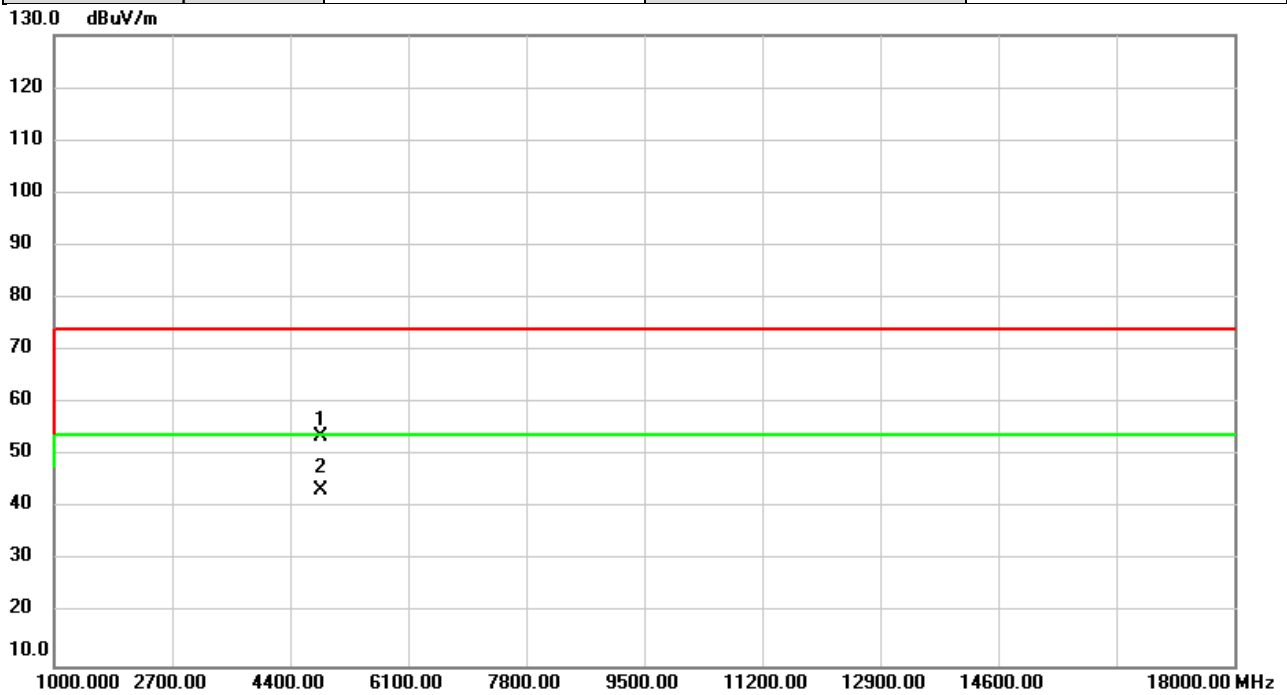


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4844.000	54.59	1.96	56.55	74.00	-17.45	peak	
2	*	4844.000	43.37	1.96	45.33	54.00	-8.67	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2025/3/13
Test Frequency	2422MHz	Polarization	Horizontal
Temp	26°C	Hum.	54%

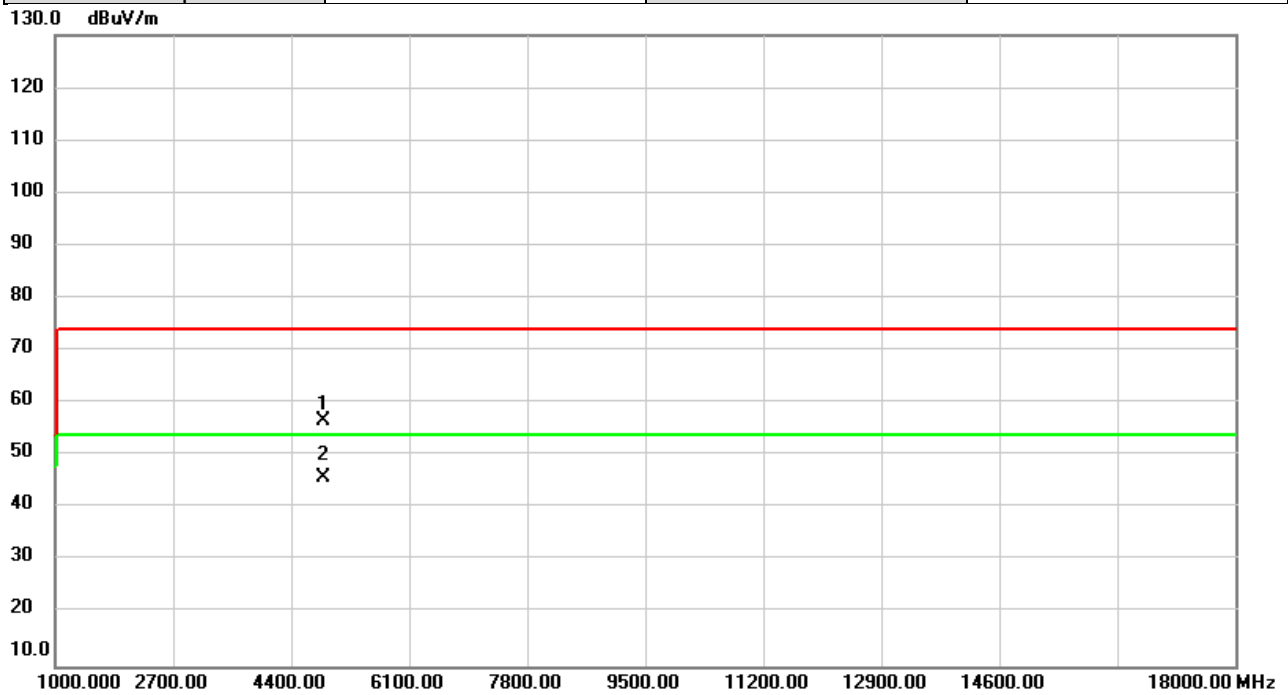


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.000	51.77	1.96	53.73	74.00	-20.27	peak	
2	*	4844.000	41.53	1.96	43.49	54.00	-10.51	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2025/3/13
Test Frequency	2437MHz	Polarization	Vertical
Temp	26°C	Hum.	54%

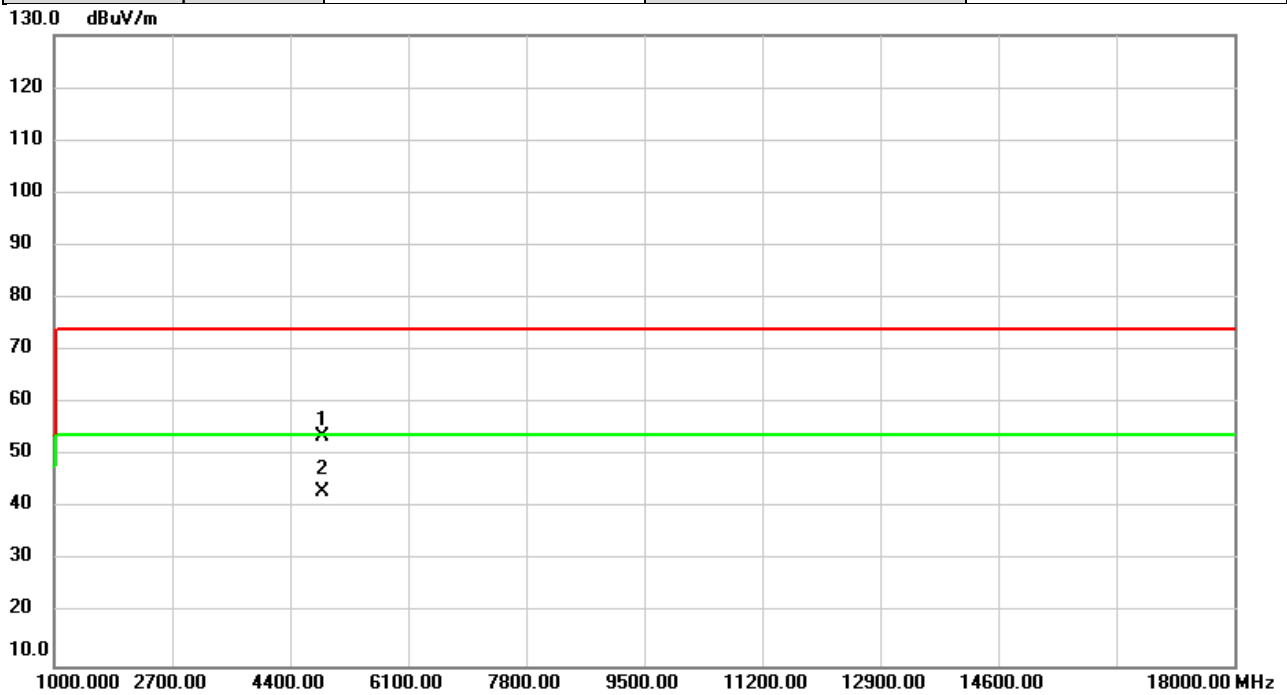


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	54.46	2.05	56.51	74.00	-17.49	peak	
2	*	4874.000	43.95	2.05	46.00	54.00	-8.00	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2025/3/13
Test Frequency	2437MHz	Polarization	Horizontal
Temp	26°C	Hum.	54%

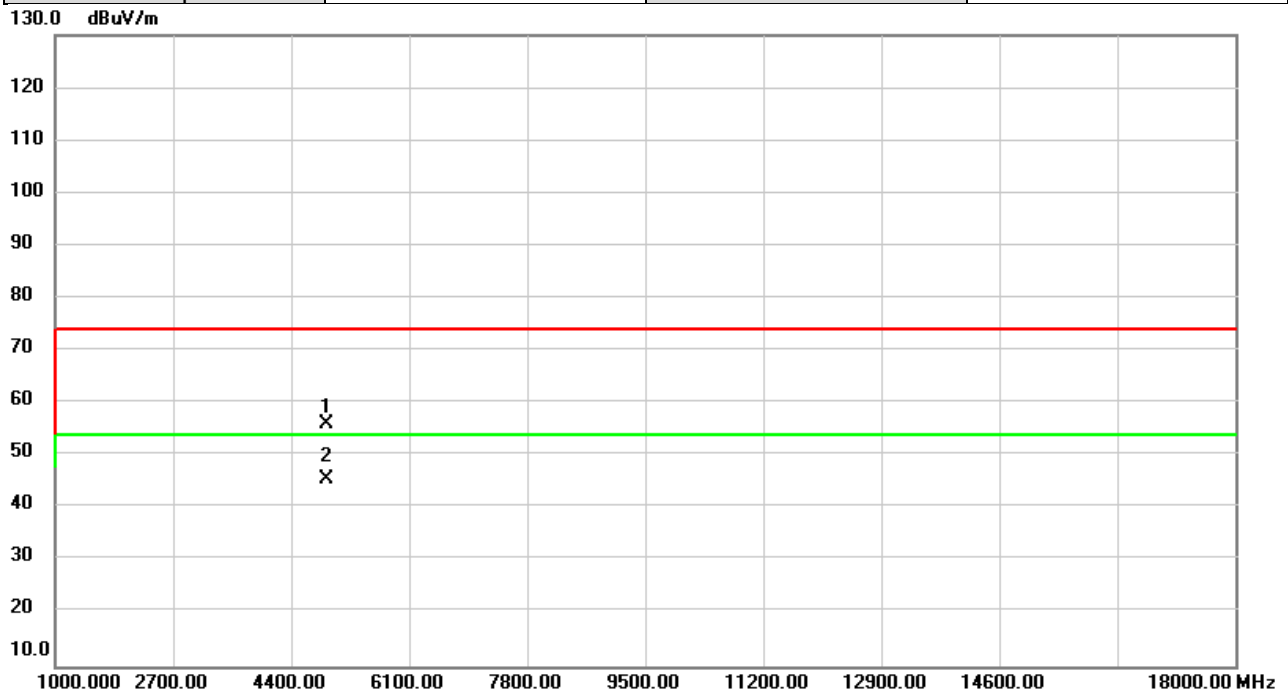


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	51.55	2.05	53.60	74.00	-20.40	peak	
2	*	4874.000	41.14	2.05	43.19	54.00	-10.81	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2025/3/13
Test Frequency	2452MHz	Polarization	Vertical
Temp	26°C	Hum.	54%

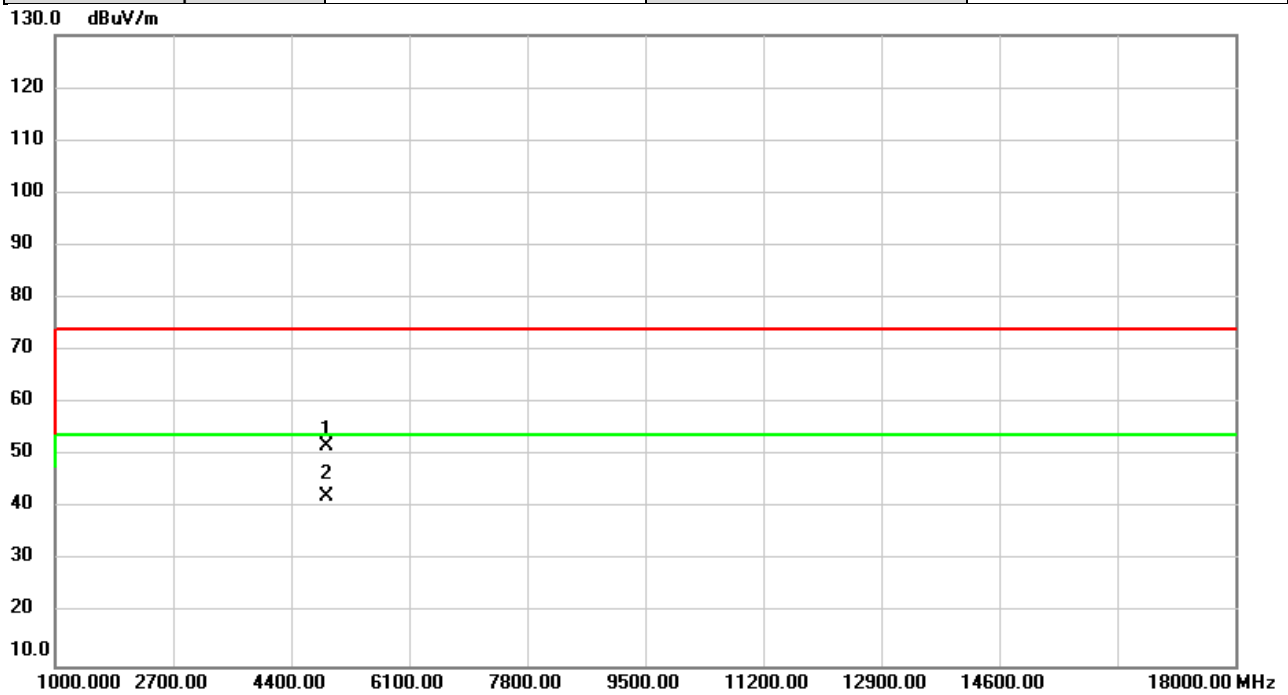


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4904.000	53.98	2.14	56.12	74.00	-17.88	peak	
2	*	4904.000	43.32	2.14	45.46	54.00	-8.54	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2025/3/13
Test Frequency	2452MHz	Polarization	Horizontal
Temp	26°C	Hum.	54%

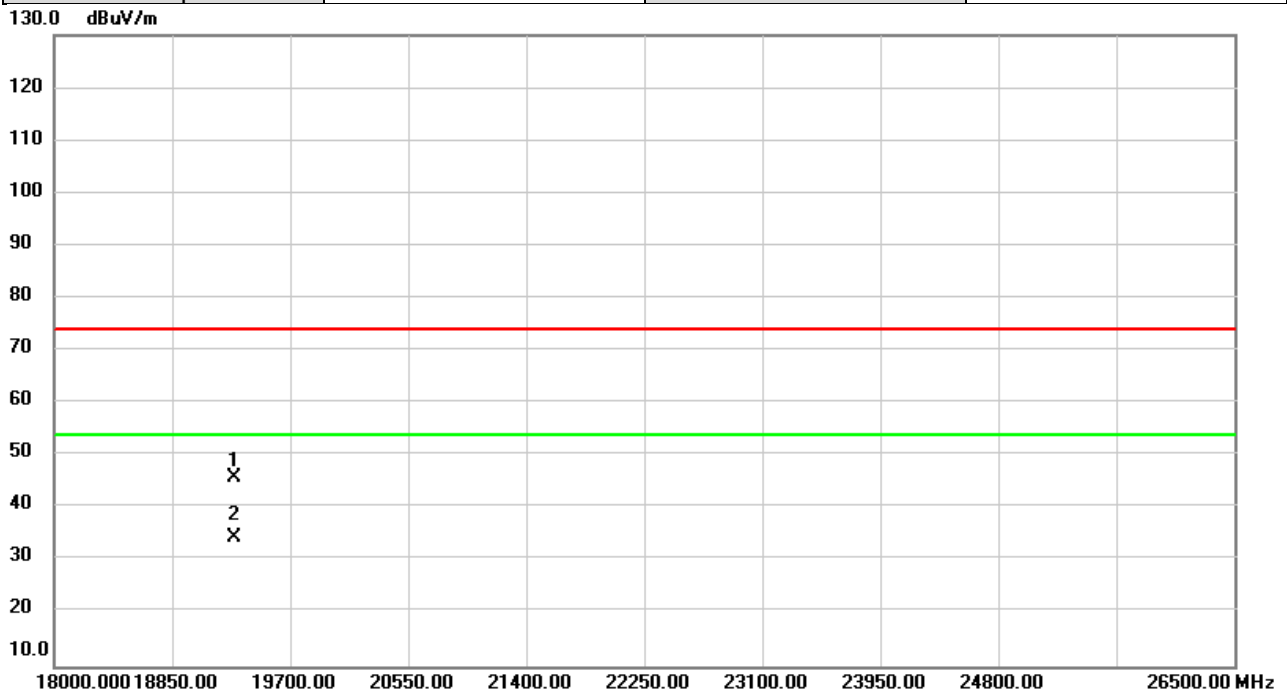


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	49.58	2.14	51.72	74.00	-22.28	peak	
2	*	4904.000	40.23	2.14	42.37	54.00	-11.63	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/3/13
Test Frequency	2412MHz	Polarization	Vertical
Temp	24°C	Hum.	59%

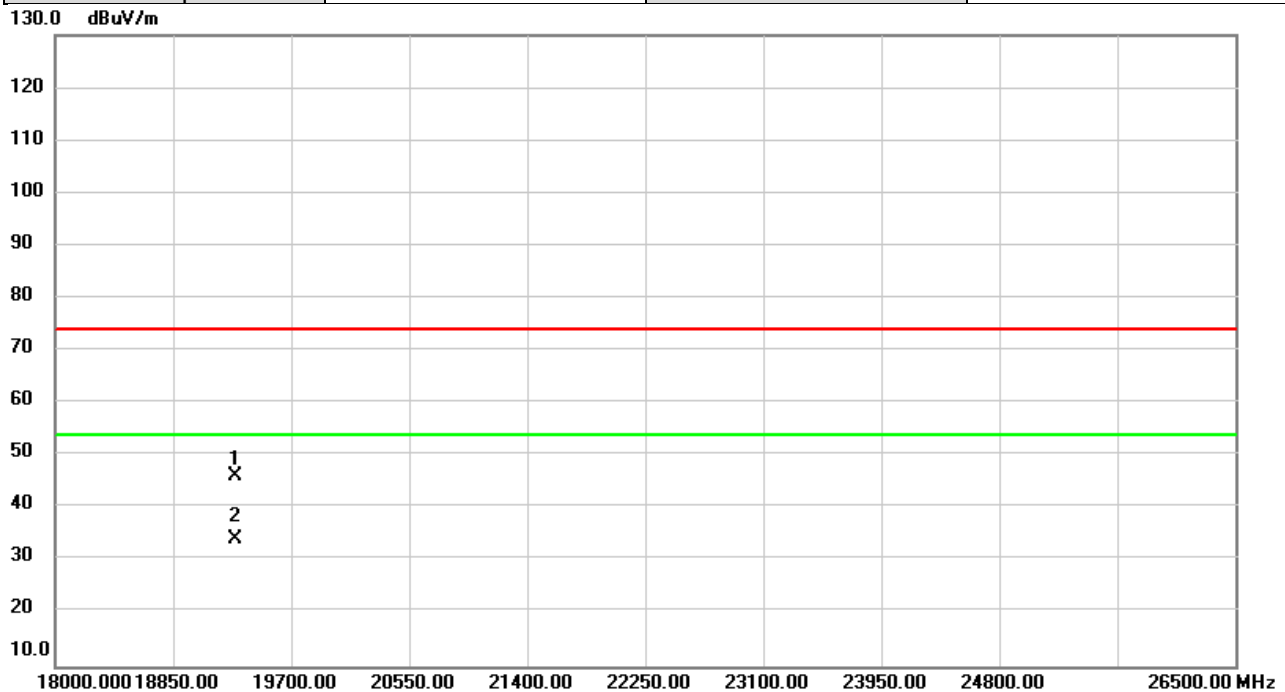


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		19296.00	52.03	-6.05	45.98	74.00	-28.02	peak	
2	*	19296.00	40.59	-6.05	34.54	54.00	-19.46	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2025/3/13
Test Frequency	2412MHz	Polarization	Horizontal
Temp	24°C	Hum.	59%



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		19296.00	52.34	-6.05	46.29	74.00	-27.71	peak	
2	*	19296.00	40.26	-6.05	34.21	54.00	-19.79	AVG	

REMARKS:

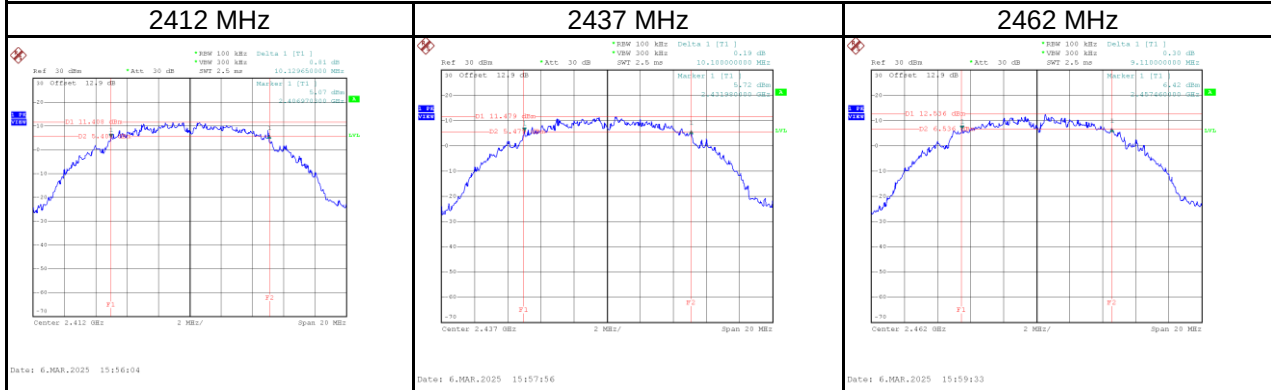
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E BANDWIDTH

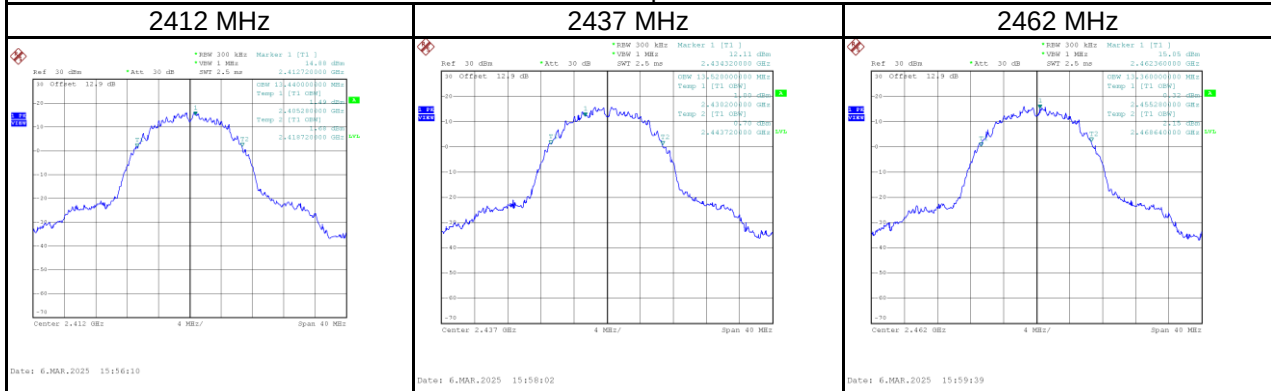
Test Mode IEEE 802.11b

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	10.13	13.44	≥ 500	Pass
2437	10.10	13.52	≥ 500	Pass
2462	9.11	13.36	≥ 500	Pass

6dB Bandwidth

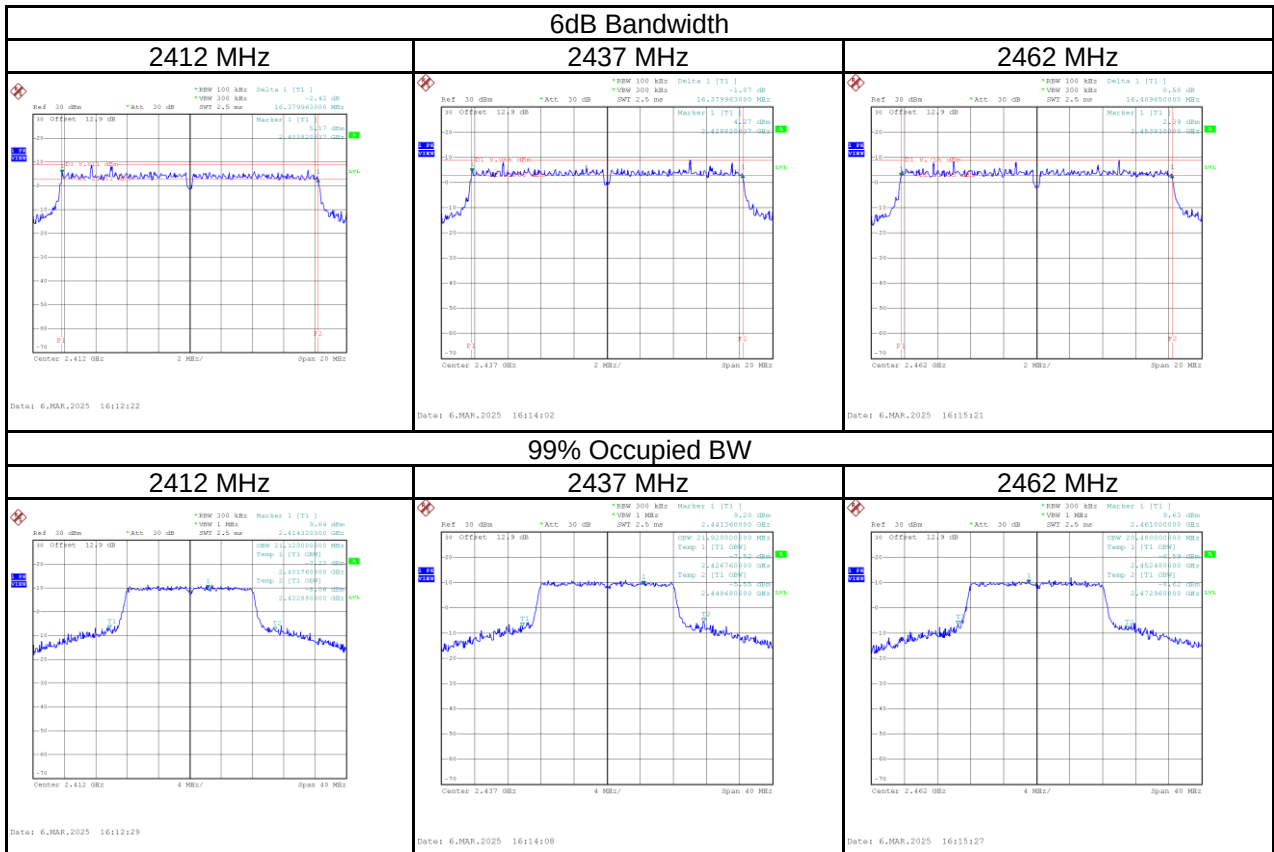


99% Occupied BW



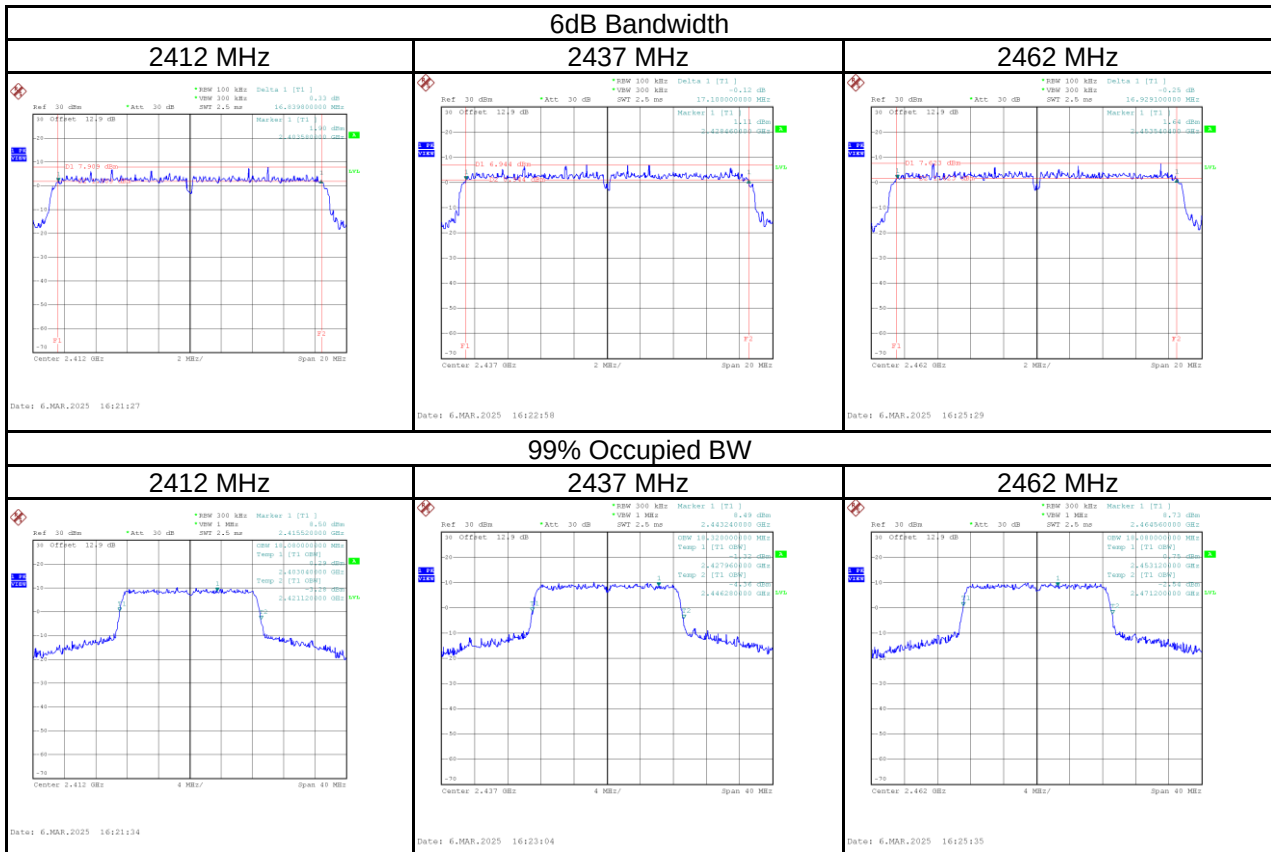
Test Mode	IEEE 802.11g
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	16.38	21.12	≥ 500	Pass
2437	16.38	21.92	≥ 500	Pass
2462	16.41	20.48	≥ 500	Pass



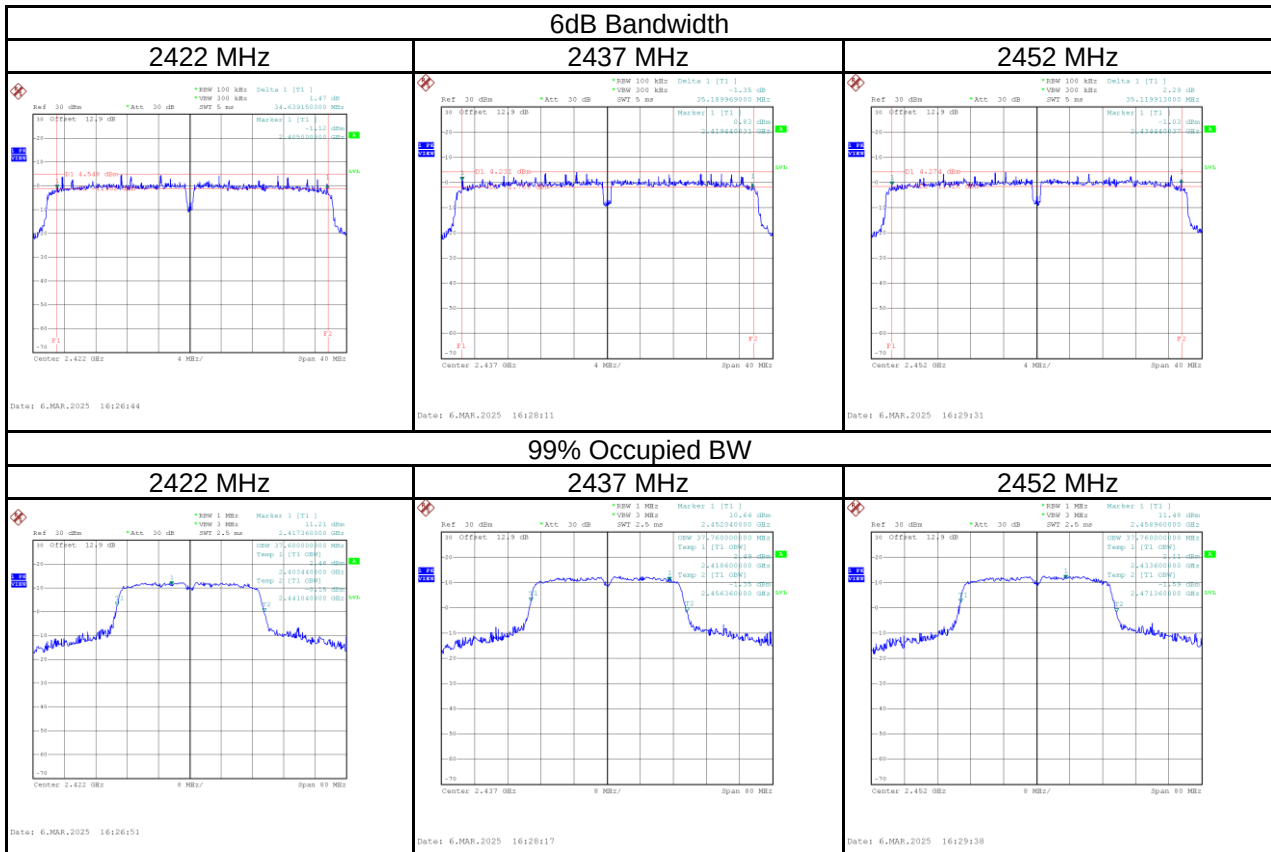
Test Mode	IEEE 802.11n (HT20)
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	16.84	18.08	≥ 500	Pass
2437	17.10	18.32	≥ 500	Pass
2462	16.93	18.08	≥ 500	Pass



Test Mode	IEEE 802.11n (HT40)
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2422	34.64	37.60	≥ 500	Pass
2437	35.19	37.76	≥ 500	Pass
2452	35.12	37.76	≥ 500	Pass



APPENDIX F OUTPUT POWER

Test Mode	IEEE 802.11b	Tested Date	2025/3/6
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Test Result
2412	22.30	0.1698	30.00	1.0000	Pass
2437	22.57	0.1807	30.00	1.0000	Pass
2462	22.40	0.1738	30.00	1.0000	Pass

Test Mode	IEEE 802.11g	Tested Date	2025/3/6
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Test Result
2412	23.08	0.2032	30.00	1.0000	Pass
2437	23.39	0.2183	30.00	1.0000	Pass
2462	23.30	0.2138	30.00	1.0000	Pass

Test Mode	IEEE 802.11n (HT20)	Tested Date	2025/3/6
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Test Result
2412	22.39	0.1734	30.00	1.0000	Pass
2437	22.33	0.1710	30.00	1.0000	Pass
2462	22.56	0.1803	30.00	1.0000	Pass

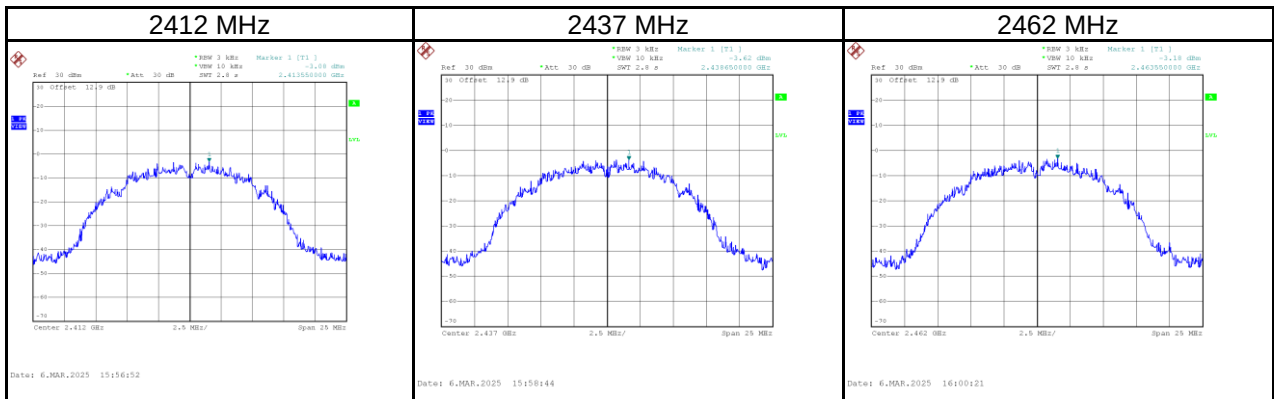
Test Mode	IEEE 802.11n (HT40)	Tested Date	2025/3/6
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Test Result
2422	21.31	0.1352	30.00	1.0000	Pass
2437	21.86	0.1535	30.00	1.0000	Pass
2452	21.57	0.1435	30.00	1.0000	Pass

APPENDIX G POWER SPECTRAL DENSITY

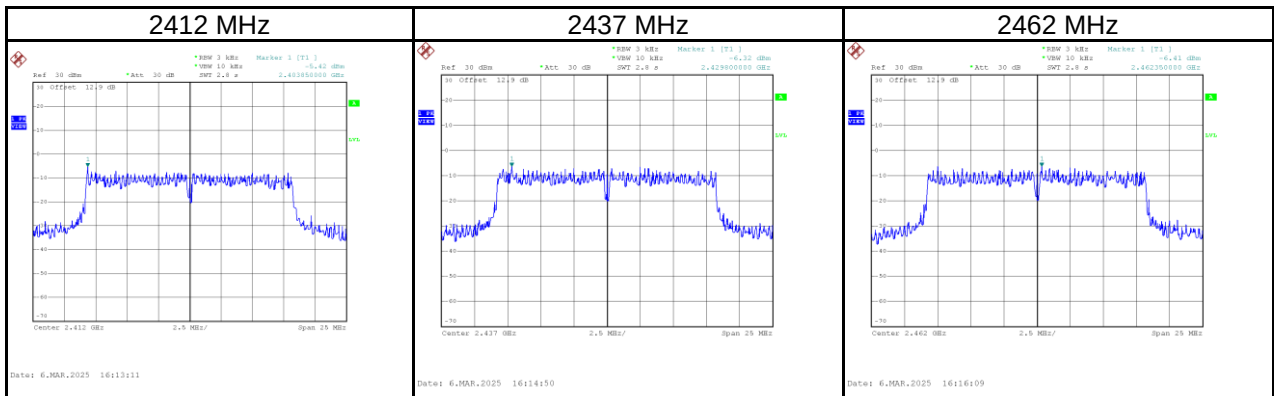
Test Mode	IEEE 802.11b
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-3.08	8.00	Pass
2437	-3.62	8.00	Pass
2462	-3.18	8.00	Pass



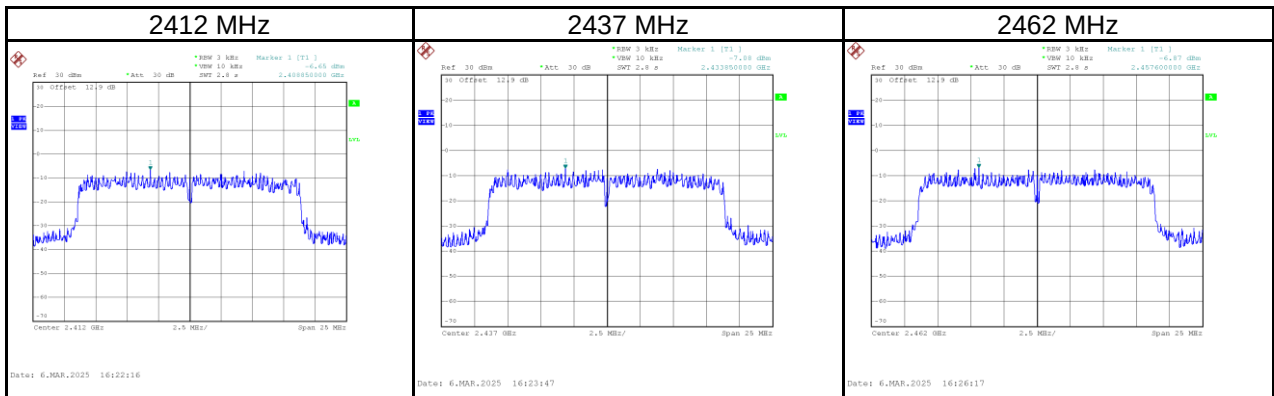
Test Mode	IEEE 802.11g
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-5.42	8.00	Pass
2437	-6.32	8.00	Pass
2462	-6.41	8.00	Pass



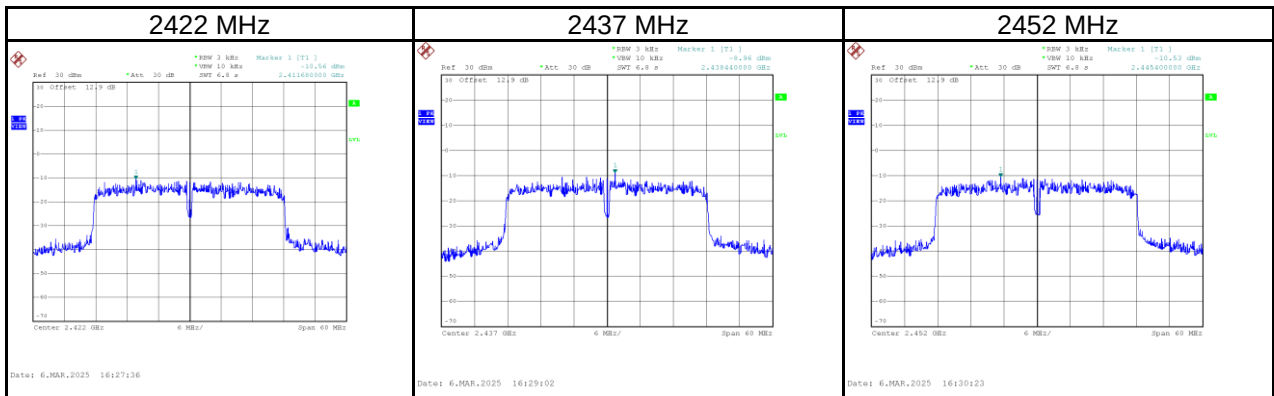
Test Mode	IEEE 802.11n (HT20)
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-6.65	8.00	Pass
2437	-7.08	8.00	Pass
2462	-6.87	8.00	Pass



Test Mode	IEEE 802.11n (HT40)
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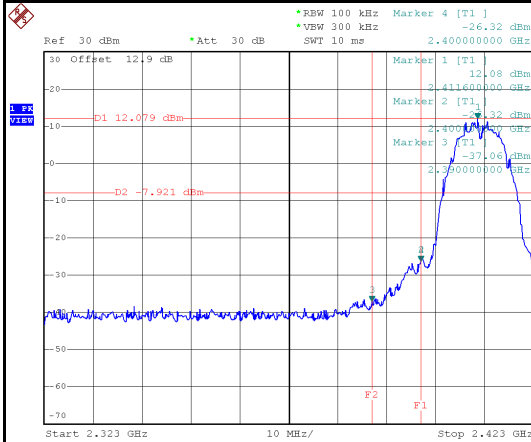
Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2422	-10.56	8.00	Pass
2437	-8.96	8.00	Pass
2452	-10.53	8.00	Pass



APPENDIX H ANTENNA CONDUCTED SPURIOUS EMISSIONS

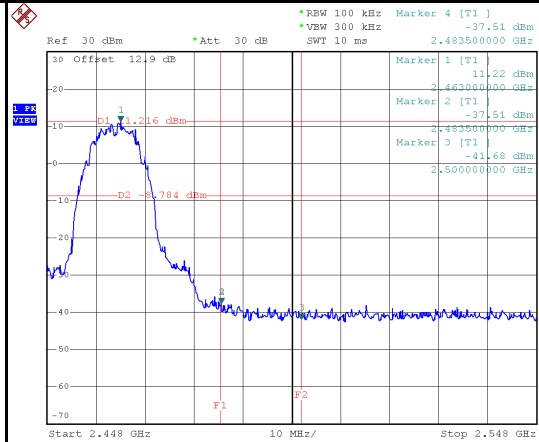
Test Mode IEEE 802.11b

Low Bandedge-2412 MHz



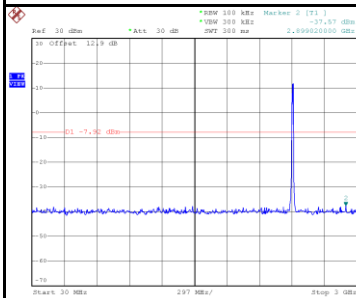
Date: 6.MAR.2025 15:56:17

High Bandedge-2462 MHz

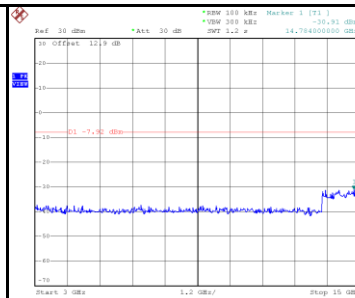


Date: 6.MAR.2025 15:59:46

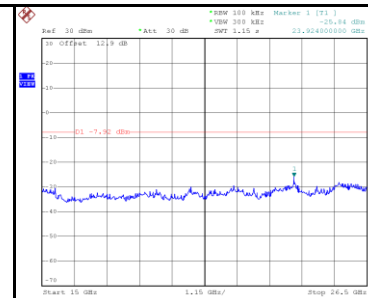
2412 MHz-10th Harmonics



Date: 6.MAR.2025 15:56:30

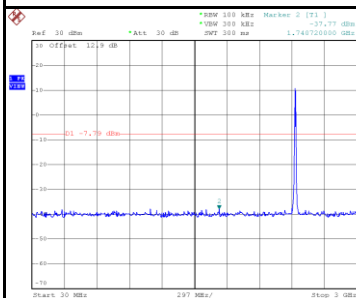


Date: 6.MAR.2025 15:56:37

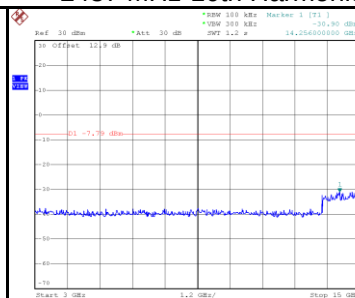


Date: 6.MAR.2025 15:56:44

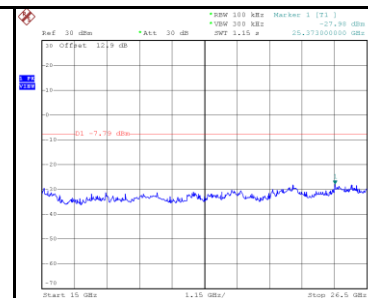
2437 MHz-10th Harmonics



Date: 6.MAR.2025 15:58:22

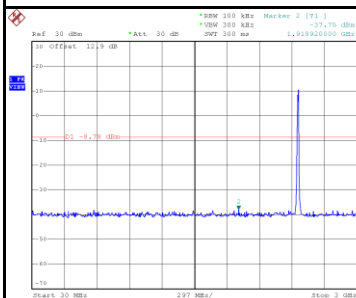


Date: 6.MAR.2025 15:58:29

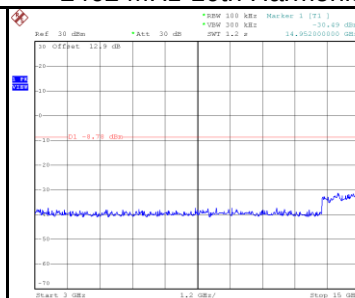


Date: 6.MAR.2025 15:58:36

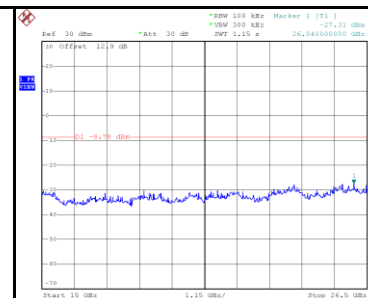
2462 MHz-10th Harmonics



Date: 6.MAR.2025 15:59:59



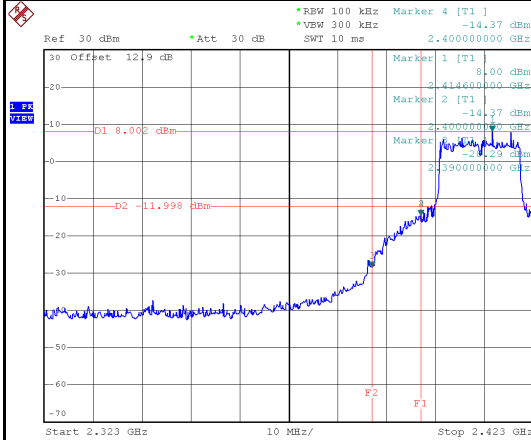
Date: 6.MAR.2025 16:00:06



Date: 6.MAR.2025 16:00:13

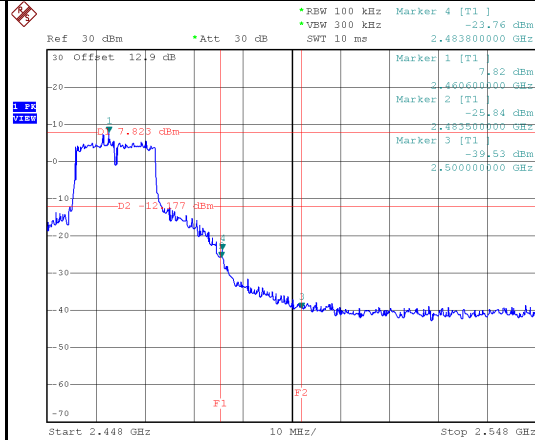
Test Mode IEEE 802.11g

Low Bandedge-2412 MHz



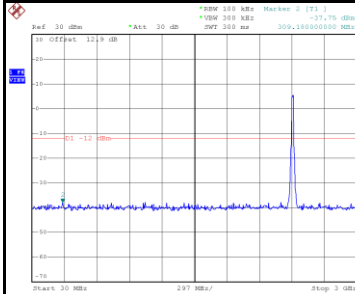
Date: 6.MAR.2025 16:12:36

High Bandedge-2462 MHz

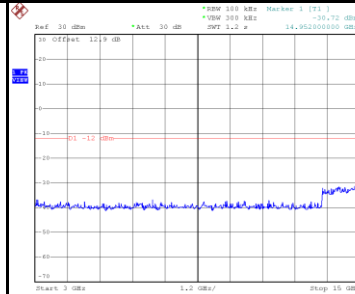


Date: 6.MAR.2025 16:15:34

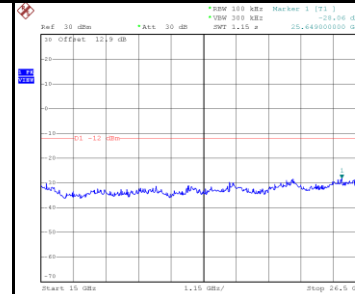
2412 MHz-10th Harmonics



Date: 6.MAR.2025 16:12:49

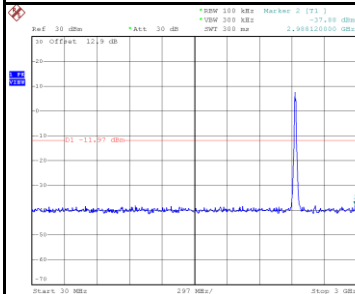


Date: 6.MAR.2025 16:12:56

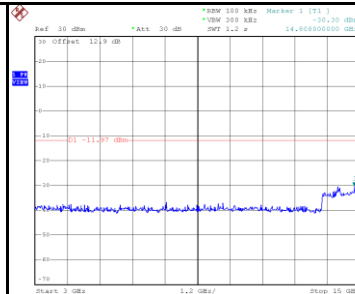


Date: 6.MAR.2025 16:13:03

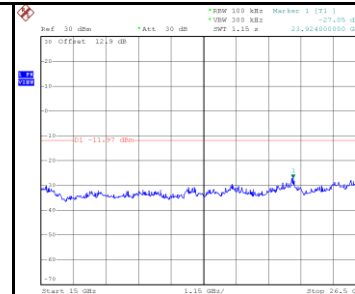
2437 MHz-10th Harmonics



Date: 6.MAR.2025 16:14:28

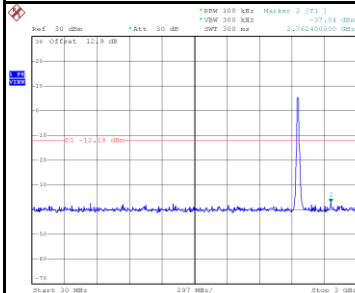


Date: 6.MAR.2025 16:14:35

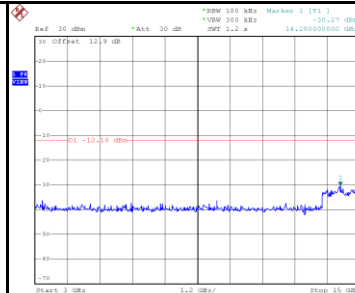


Date: 6.MAR.2025 16:14:42

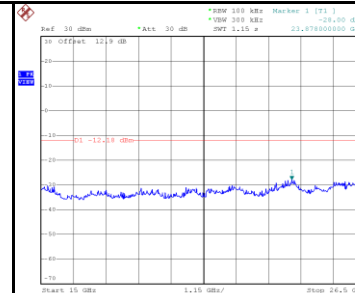
2462 MHz-10th Harmonics



Date: 6.MAR.2025 16:15:47



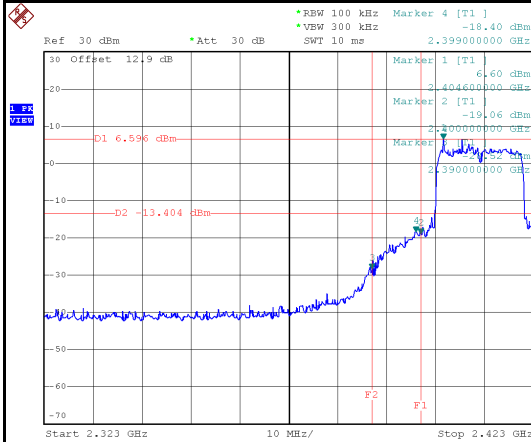
Date: 6.MAR.2025 16:15:54



Date: 6.MAR.2025 16:16:01

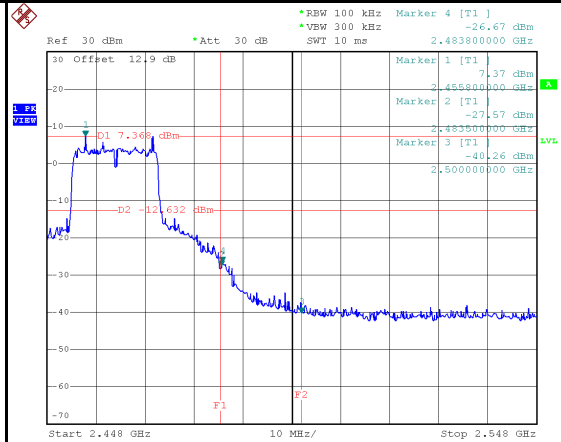
Test Mode IEEE 802.11n (HT20)

Low Bandedge-2412 MHz



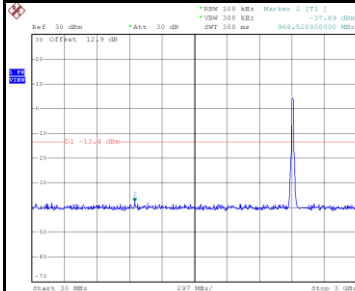
Date: 6.MAR.2025 16:21:41

High Bandedge-2462 MHz

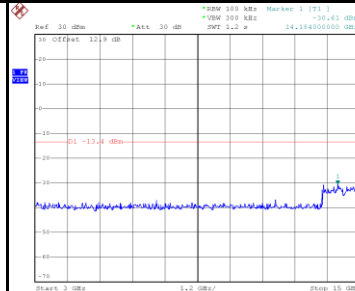


Date: 6.MAR.2025 16:25:42

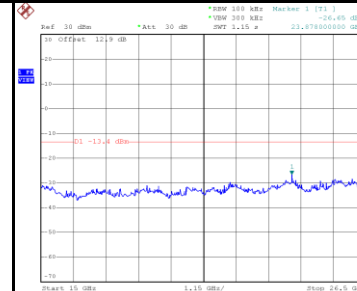
2412 MHz-10th Harmonics



Date: 6.MAR.2025 16:21:54

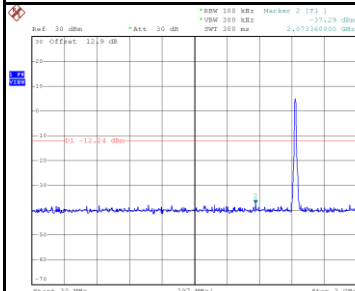


Date: 6.MAR.2025 16:22:01

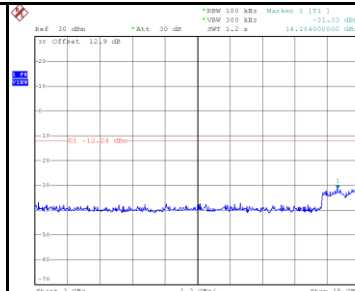


Date: 6.MAR.2025 16:22:07

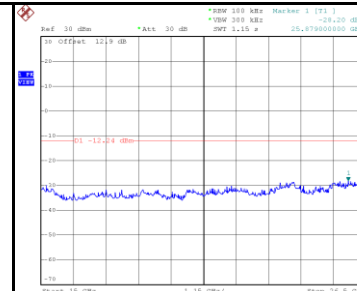
2437 MHz-10th Harmonics



Date: 6.MAR.2025 16:23:24

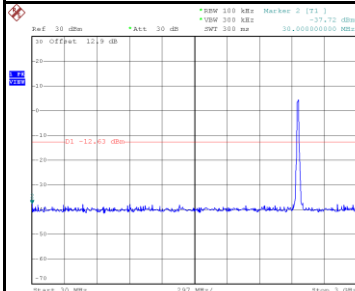


Date: 6.MAR.2025 16:23:31

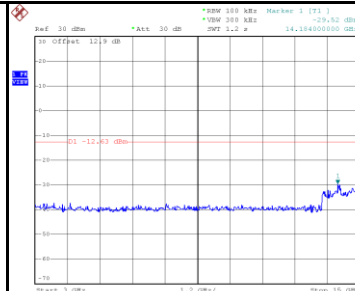


Date: 6.MAR.2025 16:23:38

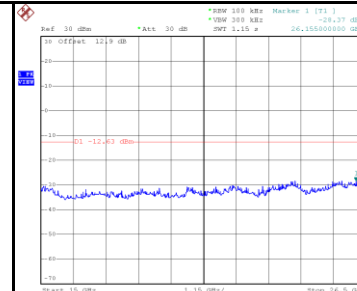
2462 MHz-10th Harmonics



Date: 6.MAR.2025 16:25:55



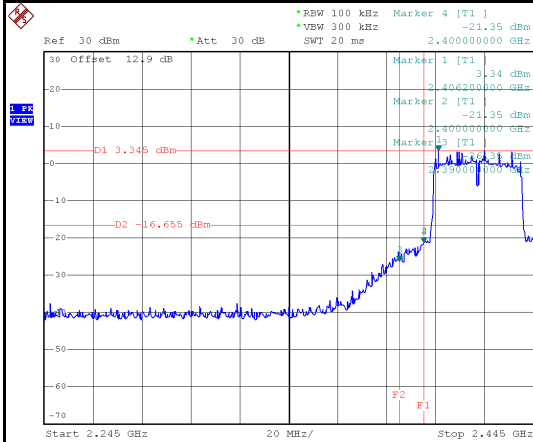
Date: 6.MAR.2025 16:26:02



Date: 6.MAR.2025 16:26:09

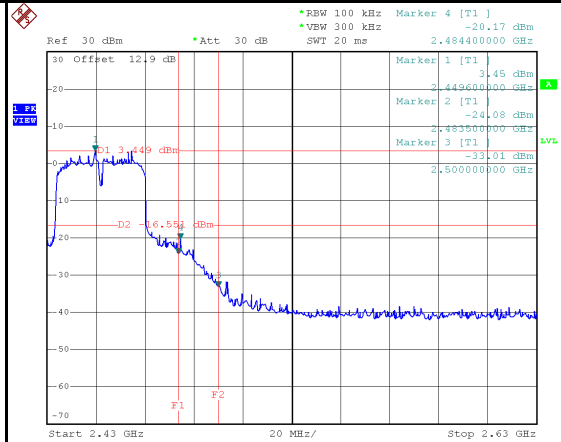
Test Mode IEEE 802.11n (HT40)

Low Bandedge-2422 MHz



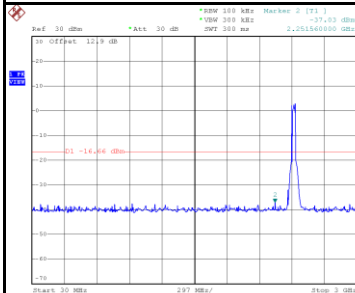
Date: 6.MAR.2025 16:26:58

High Bandedge-2452 MHz

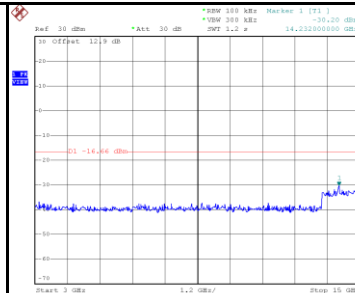


Date: 6.MAR.2025 16:29:45

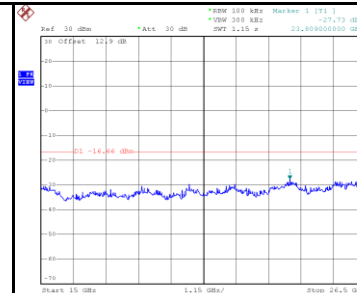
2422 MHz-10th Harmonics



Date: 6.MAR.2025 16:27:11

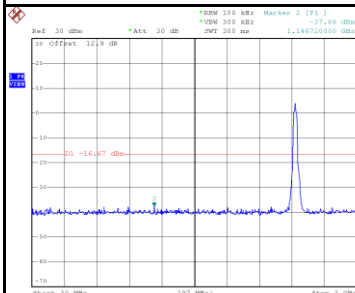


Date: 6.MAR.2025 16:27:18

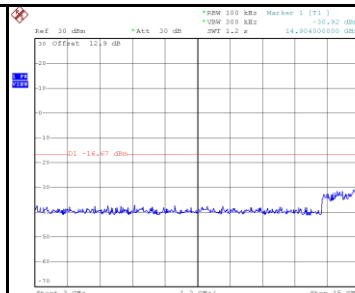


Date: 6.MAR.2025 16:27:25

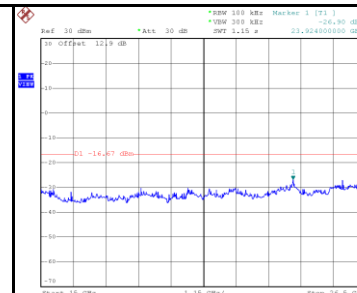
2437 MHz-10th Harmonics



Date: 6.MAR.2025 16:28:37

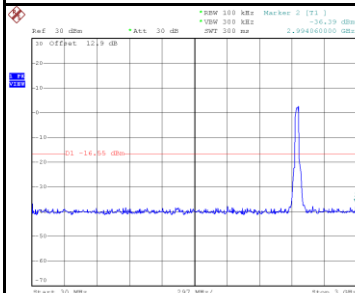


Date: 6.MAR.2025 16:28:44

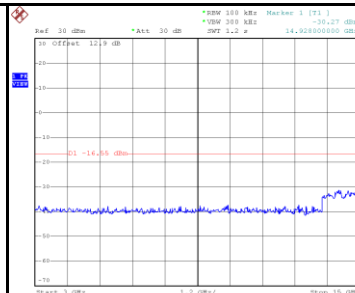


Date: 6.MAR.2025 16:28:51

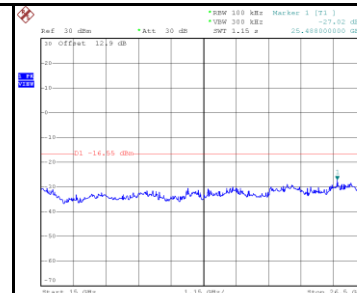
2452 MHz-10th Harmonics



Date: 6.MAR.2025 16:29:58



Date: 6.MAR.2025 16:30:05



Date: 6.MAR.2025 16:30:11

End of Test Report