

FCC Radio Test Report

FCC ID: HLZT7

Report No. : BTL-FCCP-1-2311H013
Equipment : Connect T7 Wi-Fi 7 Mesh Router
Model Name : T7
Brand Name : Predator
Applicant : Acer Incorporated
Address : 8F, 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 221, Taiwan, R.O.C.

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

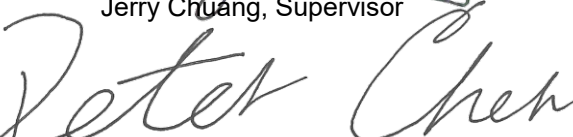
Date of Receipt : 2023/11/9
Date of Test : 2023/12/4 ~ 2024/3/14
Issued Date : 2024/6/12

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

Prepared by


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Approved by


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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** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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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-1-2311H013	R00	Original Report.	2024/5/20	Invalid
BTL-FCCP-1-2311H013	R01	Revised report to address comments.	2024/6/12	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 C APPENDIX D APPENDIX E	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	-----

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 %**. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

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.

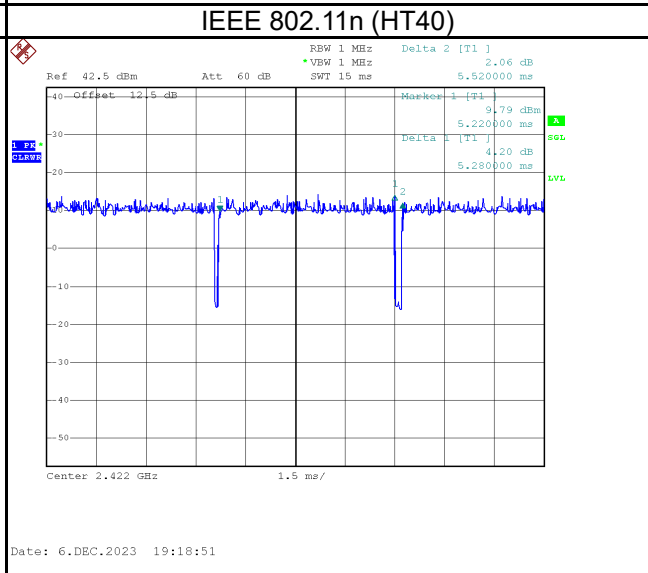
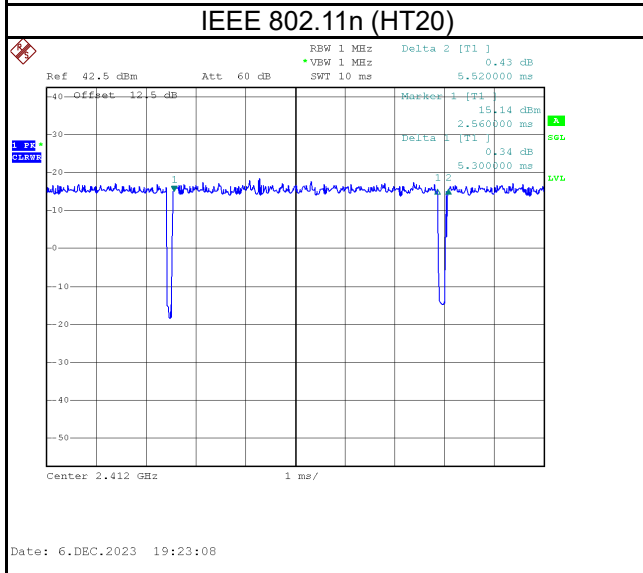
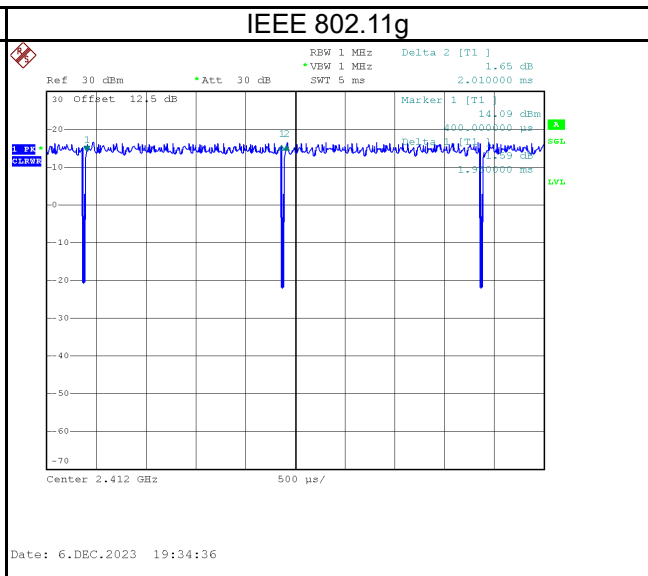
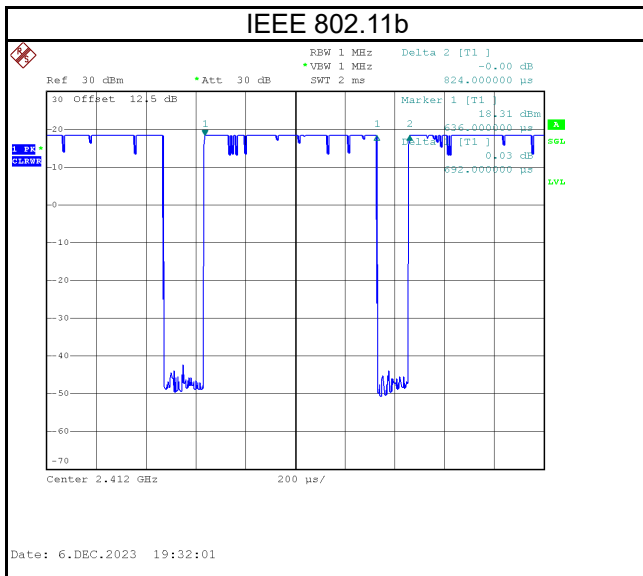
1.3 TEST ENVIRONMENT CONDITIONS

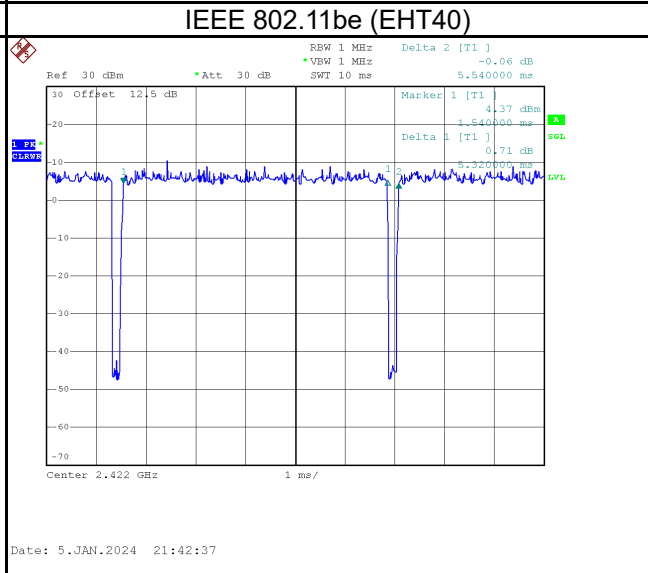
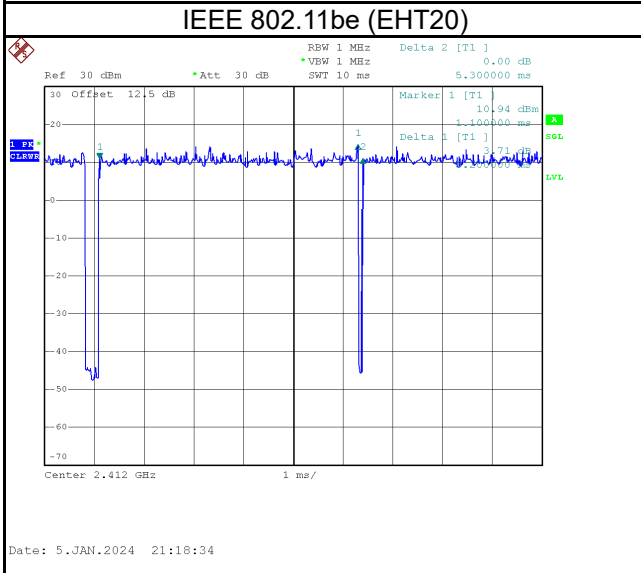
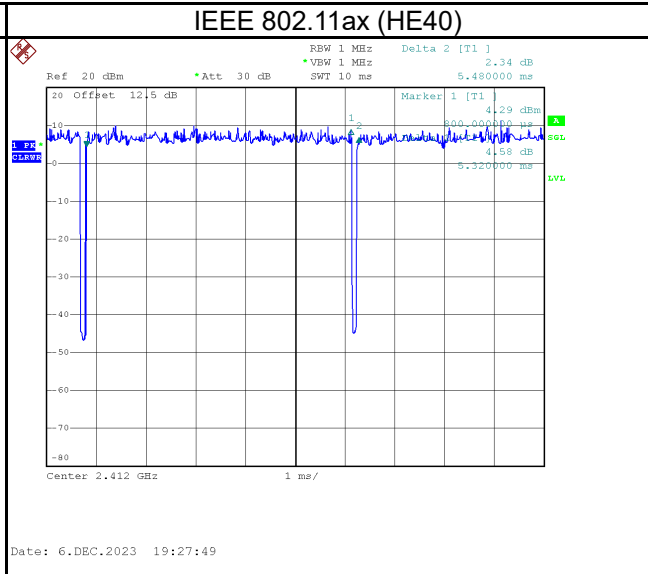
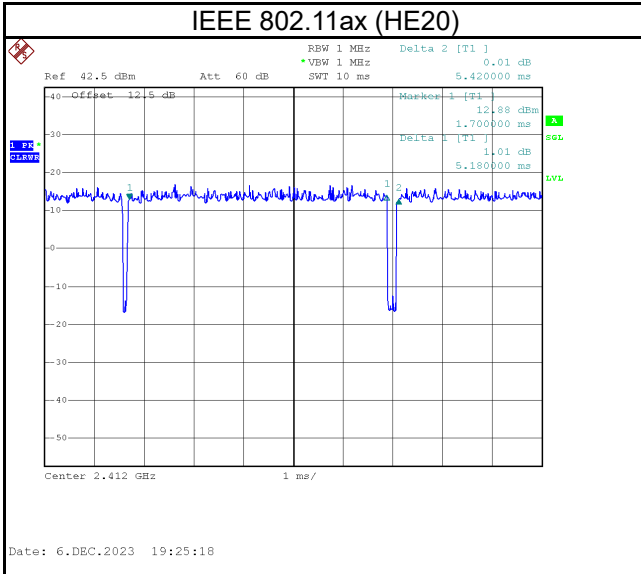
Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	17 °C, 69 %	AC 120V	Ken Lan
Radiated emissions below 1 GHz	Refer to data	AC 120V	Kevin Zhen
Radiated emissions above 1 GHz	Refer to data	AC 120V	Kevin Zhen
Bandwidth	20.6 °C, 63 %	AC 120V	Jerry Chuang
Output Power	20.6 °C, 63 %	AC 120V	Jerry Chuang
Power Spectral Density	20.6 °C, 63 %	AC 120V	Jerry Chuang
Antenna conducted Spurious Emission	20.6 °C, 63 %	AC 120V	Jerry Chuang

1.4 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	0.692	1	0.692	0.824	83.98%	0.76
IEEE 802.11g	1.960	1	1.960	2.010	97.51%	0.11
IEEE 802.11n (HT20)	5.300	1	5.300	5.520	96.01%	0.18
IEEE 802.11n (HT40)	5.280	1	5.280	5.520	95.65%	0.19
IEEE 802.11ax (HE20)	5.180	1	5.180	5.420	95.57%	0.20
IEEE 802.11ax (HE40)	5.320	1	5.320	5.480	97.08%	0.13
IEEE 802.11be (EHT20)	5.200	1	5.200	5.300	98.11%	0.08
IEEE 802.11be (EHT40)	5.320	1	5.320	5.540	96.03%	0.18





2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Connect T7 Wi-Fi 7 Mesh Router
Model Name	T7
Brand Name	Predator
Model Difference	N/A
Power Source	DC voltage supplied from AC/DC Adapter.
Power Rating	I/P: 100-240V~50/60Hz 1.2A O/P: 12.0V--- 3.0A
Products Covered	1 * Adapter: TPQ-229C120300UW01
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 IEEE 802.11ax: OFDMA IEEE 802.11be: OFDMA
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 300 Mbps IEEE 802.11ax: up to 573.6 Mbps IEEE 802.11be: up to 688 Mbps
Output Power Max. - Non Beamforming mode	IEEE 802.11b: 24.37 dBm (0.2735 W) IEEE 802.11g: 25.46 dBm (0.3518 W) IEEE 802.11n (HT20): 25.38 dBm (0.3448 W) IEEE 802.11n (HT40): 25.55 dBm (0.3589 W) IEEE 802.11ax (HE20): 25.13 dBm (0.3255 W) IEEE 802.11ax (HE40): 25.46 dBm (0.3512 W) IEEE 802.11be (EHT20): 24.77 dBm (0.2998 W) IEEE 802.11be (EHT40): 25.44 dBm (0.3496 W)
Output Power Max. - Beamforming mode	IEEE 802.11n (HT20): 24.98 dBm (0.3148 W) IEEE 802.11n (HT40): 24.51 dBm (0.2823 W) IEEE 802.11ax (HE20): 24.70 dBm (0.2949 W) IEEE 802.11ax (HE40): 24.49 dBm (0.2814 W) IEEE 802.11be (EHT20): 23.74 dBm (0.2368 W) IEEE 802.11be (EHT40): 24.41 dBm (0.2758 W)
Operating Software	QSPR v5.14.00227.1
Test Model	T7
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:

Ant.	Brand	Part number	Type	Connector	Gain (dBi)
1		SH23227IB65-1	PIFA	I-PEX	1.43
2		SH23227IB65-2	PIFA	I-PEX	0.84

NOTE:

a) The EUT incorporates a CDD function. Physically, the EUT provides two completed transmitters and receivers (2T2R).

b) For Output Power

For $N_{ANT} = 2 < 5$,

Direction gain = $G_{ANT} + 0 = 1.43 + 0 = 1.43$ dBi.

The Direction gain is less than 6 dBi, so output power limits will not be reduced.

c) For Beamforming:

Beamforming Gain: 3dB

so Directional gain = $1.43 + 3 = 4.43$ dBi, so output power limits will not be reduced.

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

(5) Operating Mode and Antenna Configuration

For No Beamforming:

TX Mode \ Operating Mode	2TX
IEEE 802.11b	V (Ant. 1+Ant. 2)
IEEE 802.11g	V (Ant. 1+Ant. 2)
IEEE 802.11n (HT20)	V (Ant. 1+Ant. 2)
IEEE 802.11n (HT40)	V (Ant. 1+Ant. 2)
IEEE 802.11ax (HE20)	V (Ant. 1+Ant. 2)
IEEE 802.11ax (HE40)	V (Ant. 1+Ant. 2)
IEEE 802.11be (EHT20)	V (Ant. 1+Ant. 2)
IEEE 802.11be (EHT40)	V (Ant. 1+Ant. 2)

For Beamforming:

TX Mode \ Operating Mode	2TX
IEEE 802.11n (HT20)	V (Ant. 1+Ant. 2)
IEEE 802.11n (HT40)	V (Ant. 1+Ant. 2)
IEEE 802.11ax (HE20)	V (Ant. 1+Ant. 2)
IEEE 802.11ax (HE40)	V (Ant. 1+Ant. 2)
IEEE 802.11be (EHT20)	V (Ant. 1+Ant. 2)
IEEE 802.11be (EHT40)	V (Ant. 1+Ant. 2)

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 802.11n (HT40)	06	-
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 802.11ax (HE20)		
	TX Mode_IEEE 802.11be (EHT20)	03/09	
	TX Mode_IEEE 802.11n (HT40)		
	TX Mode_IEEE 802.11ax (HE40)		
	TX Mode_IEEE 802.11be (EHT40)		
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 802.11ax (HE20)		
	TX Mode_IEEE 802.11be (EHT20)	03/06/09	
	TX Mode_IEEE 802.11n (HT40)		
	TX Mode_IEEE 802.11ax (HE40)		
	TX Mode_IEEE 802.11be (EHT40)		
Transmitter Radiated Emissions (above 18GHz)	TX Mode_IEEE 802.11n (HT40)	06	-
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 802.11ax (HE20)		
	TX Mode_IEEE 802.11be (EHT20)	03/06/09	
	TX Mode_IEEE 802.11n (HT40)		
	TX Mode_IEEE 802.11ax (HE40)		
	TX Mode_IEEE 802.11be (EHT40)		

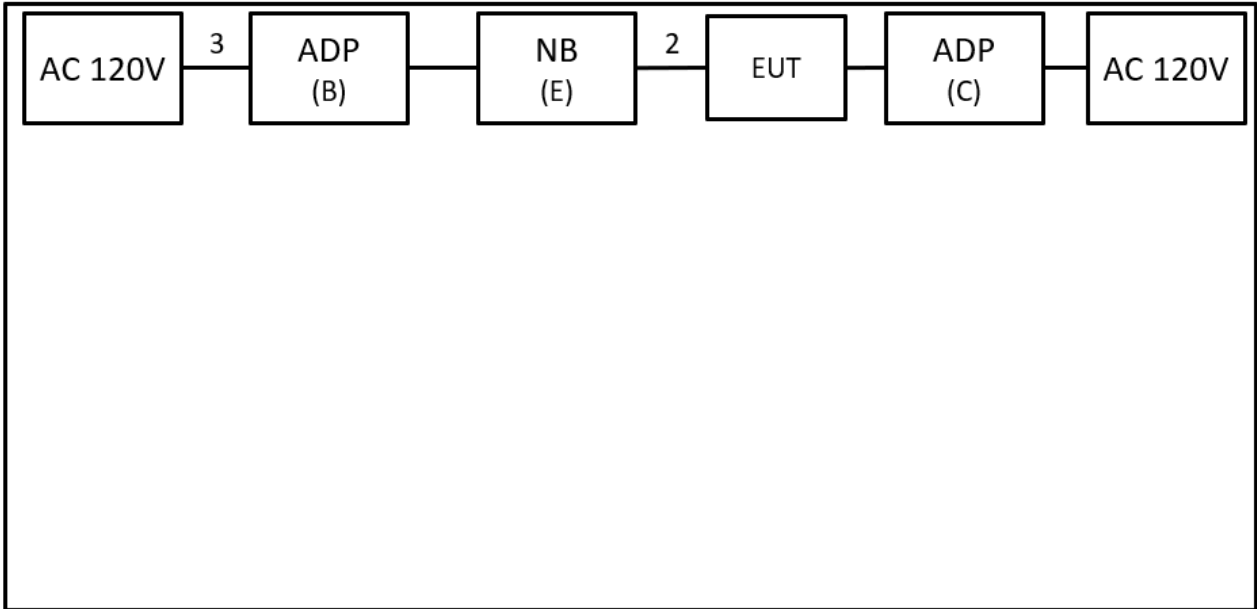
NOTE:

- (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.
- (3) For IEEE 802.11ax modes, refer to TCB Workshop presentations on October 3, 2018, after evaluated, all testing are performed under fully loaded conditions (Full RU). In the test data, only the partially loaded conditions data are marked with tones.
- (4) The measurements for Output Power are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.
- (5) For radiated emission above 18GHz test, only tested and recorded the worst case.
- (6) IEEE 802.11ax mode and IEEE 802.11be mode only supports full RU, so only the full RU is evaluated and measured inside report.

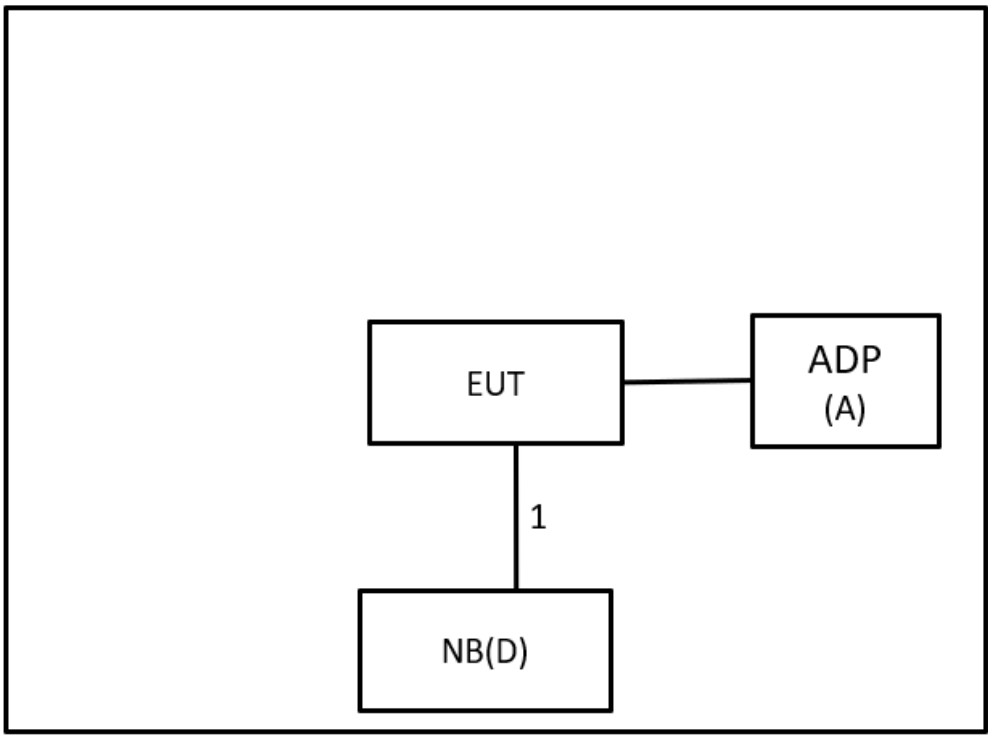
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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

AC power line conducted emissions



Radiated Emissions



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Adapter	N/A	TPQ-229C120300VW01	N/A	Supplied by test requester
B	Adapter	HP	HSTNN-CA40	64NJVBX	Furnished by test lab.
C	Adapter	N/A	TPQ-229C120300UW01	N/A	Supplied by test requester
D	NB	HP	TPN-I119	N/A	Furnished by test lab.
E	NB	HP	240 G5	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	No	No	1m	RJ45 Cable	Furnished by test lab.
2	No	No	0.5m	RJ45 Cable	Furnished by test lab.
3	No	No	1m	Power Cord	Furnished by test lab.

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency (MHz)	Limit (dB μ V)	
	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 (dB μ V)		Correct Factor (dB)		Measurement Value (dB μ V)
38.22	+	3.45	=	41.67

Measurement Value (dB μ V)		Limit Value (dB μ V)		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.

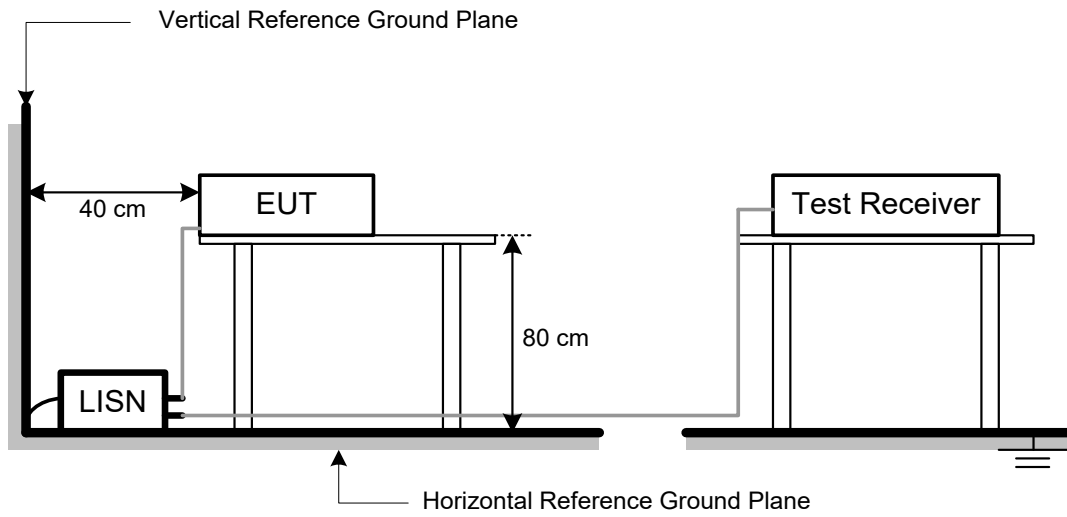
NOTE:

- (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 (dBμV)		Correct Factor (dB/m)		Measurement Value (dBμV/m)
19.11	+	2.11	=	21.22

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

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

Mode	VBW(Hz)
IEEE 802.11b	1.8k
IEEE 802.11g	750
IEEE 802.11n (HT20)	300
IEEE 802.11n (HT40)	300
IEEE 802.11ax (HE20)	300
IEEE 802.11ax (HE40)	300
IEEE 802.11be (EHT20)	300
IEEE 802.11be (EHT40)	300

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

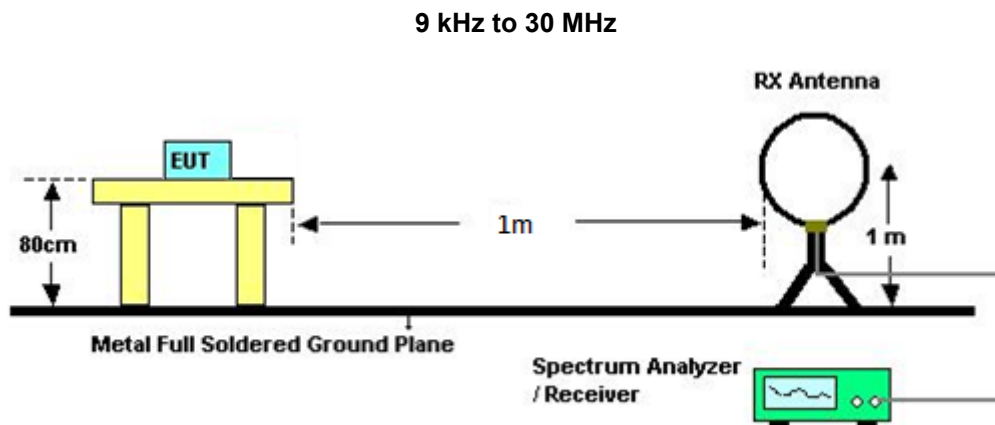
4.2 TEST PROCEDURE

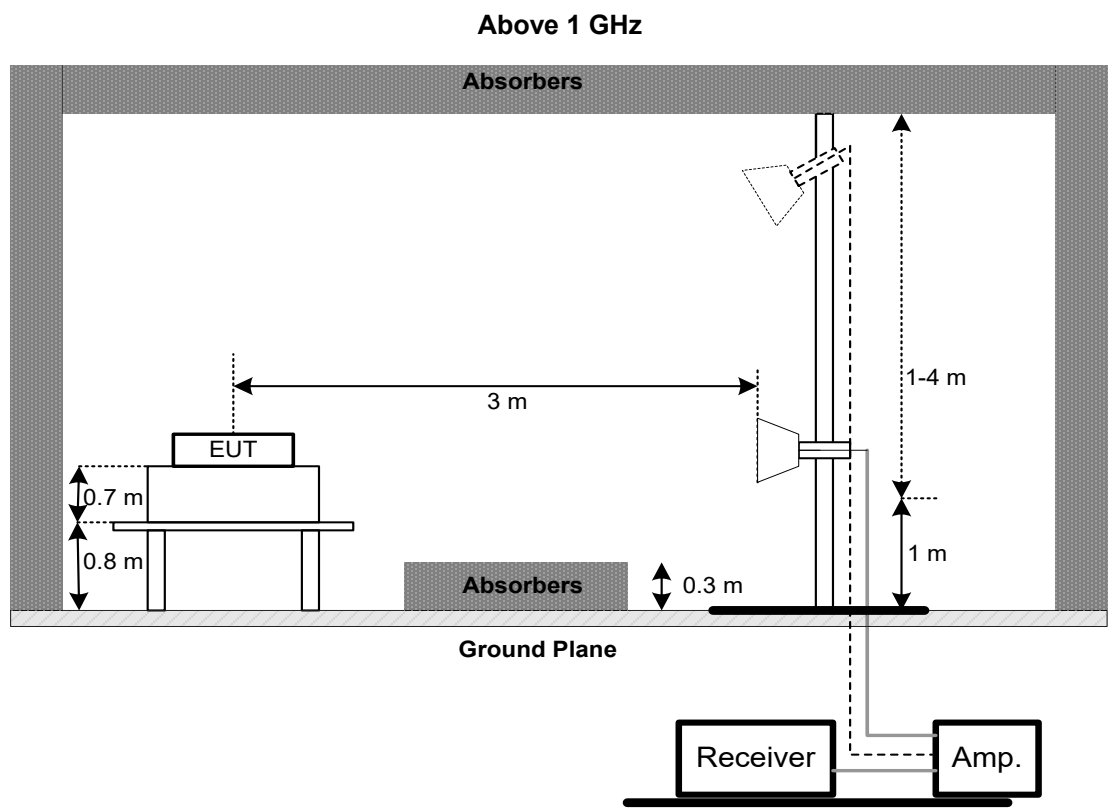
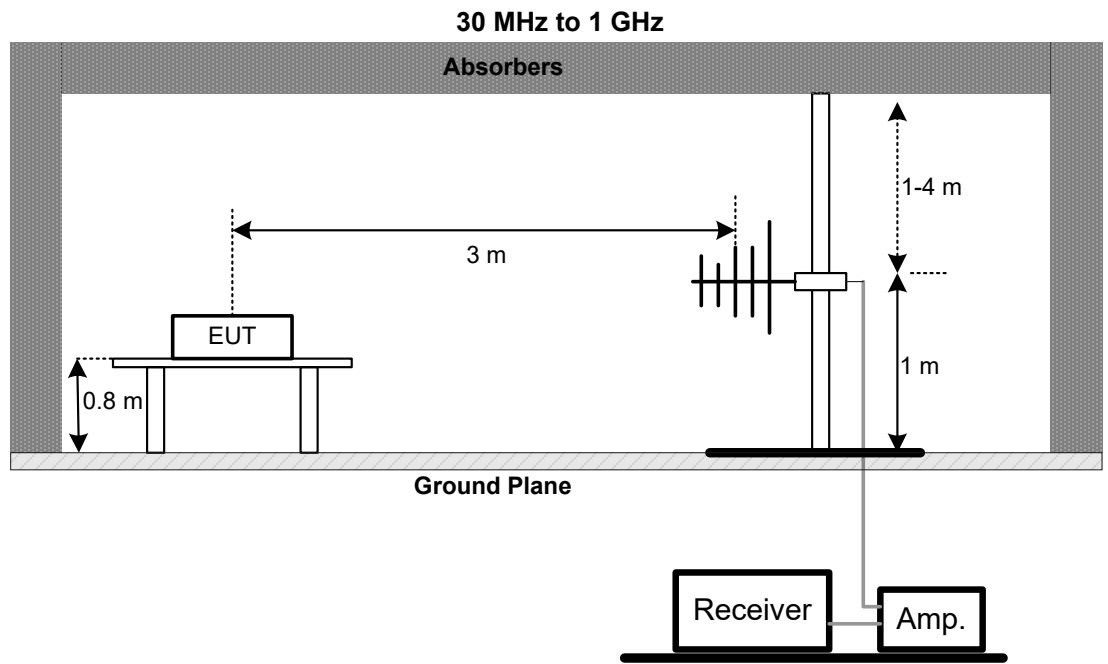
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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





4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT – 9kHz 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

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

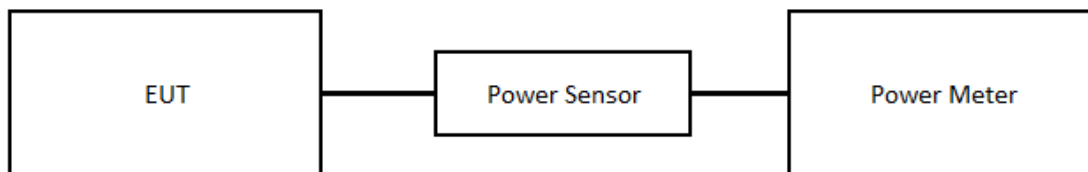
6.2 TEST PROCEDURE

- 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

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. 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	2023/9/13	2024/9/12
2	Test Cable	EMCI	EMCCFD300-BM-BMR-5000	220331	2023/3/30	2024/3/29
3	EMI Test Receiver	R&S	ESR 7	101433	2023/11/10	2024/11/9
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	2023/9/6	2024/9/5
2	Preamplifier	EMCI	EMC118A45SE	980819	2023/3/7	2024/3/6
3	Pre-Amplifier	EMCI	EMC184045SE	980907	2023/9/21	2024/9/20
4	Preamplifier	EMCI	EMC001340	980579	2023/9/6	2024/9/5
5	Test Cable	EMCI	EMC104-SM-1000	180809	2023/7/10	2024/7/9
6	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2023/3/14	2024/3/13
7	Test Cable	EMCI	EMC104-SM-SM-7000	220324	2023/3/14	2024/3/13
8	EXA Signal Analyzer	keysight	N9020B	MY57120120	2023/2/24	2024/2/23
9	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2023/9/12	2024/9/11
10	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2023/5/12	2024/5/11
11	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2023/5/12	2024/5/11
12	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2023/5/9	2024/5/8
13	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2023/5/9	2024/5/8
14	Test Cable	EMCI	EMC101G-KM-KM-3000	220329	2023/3/14	2024/3/13
15	Test Cable	EMCI	EMC102-KM-KM-1000	220327	2023/3/14	2024/3/13
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	2023/3/27	2024/3/26

Output Power

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Power Meter	Anritsu	ML2495A	1128008	2023/5/12	2024/5/11
2	Power Sensor	Anritsu	MA2411B	1126001	2023/5/12	2024/5/11

Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2023/3/27	2024/3/26

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	2023/3/27	2024/3/26

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

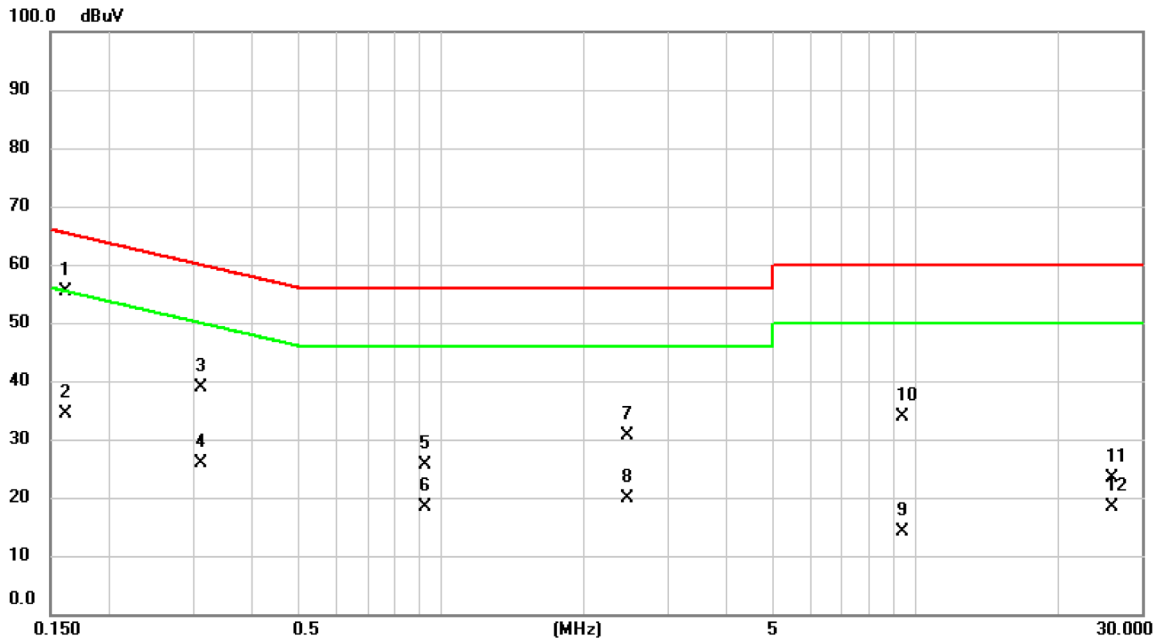
Please refer to document Appendix No.: TP-2311H013-FCCP-1 (APPENDIX-TEST PHOTOS).

11 EUT PHOTOS

Please refer to document Appendix No.: EP-2311H013-1 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2023/12/22
Test Frequency	-	Phase	Line

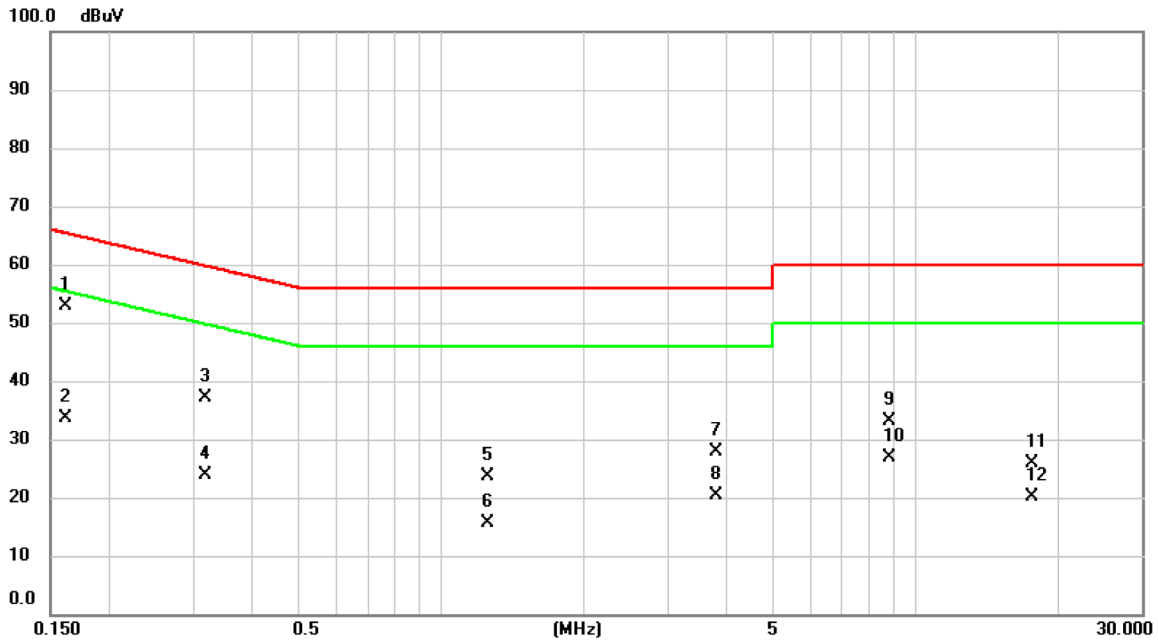


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1613	45.70	9.60	55.30	65.40	-10.10	QP	
2		0.1613	24.90	9.60	34.50	55.40	-20.90	AVG	
3		0.3120	29.40	9.58	38.98	59.92	-20.94	QP	
4		0.3120	16.25	9.58	25.83	49.92	-24.09	AVG	
5		0.9262	16.11	9.58	25.69	56.00	-30.31	QP	
6		0.9262	8.82	9.58	18.40	46.00	-27.60	AVG	
7		2.4698	21.04	9.64	30.68	56.00	-25.32	QP	
8		2.4698	10.33	9.64	19.97	46.00	-26.03	AVG	
9		9.4110	4.33	9.72	14.05	60.00	-45.95	QP	
10		9.4110	24.23	9.72	33.95	50.00	-16.05	AVG	
11		25.9395	13.59	9.68	23.27	60.00	-36.73	QP	
12		25.9395	8.76	9.68	18.44	50.00	-31.56	AVG	

REMARKS:

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

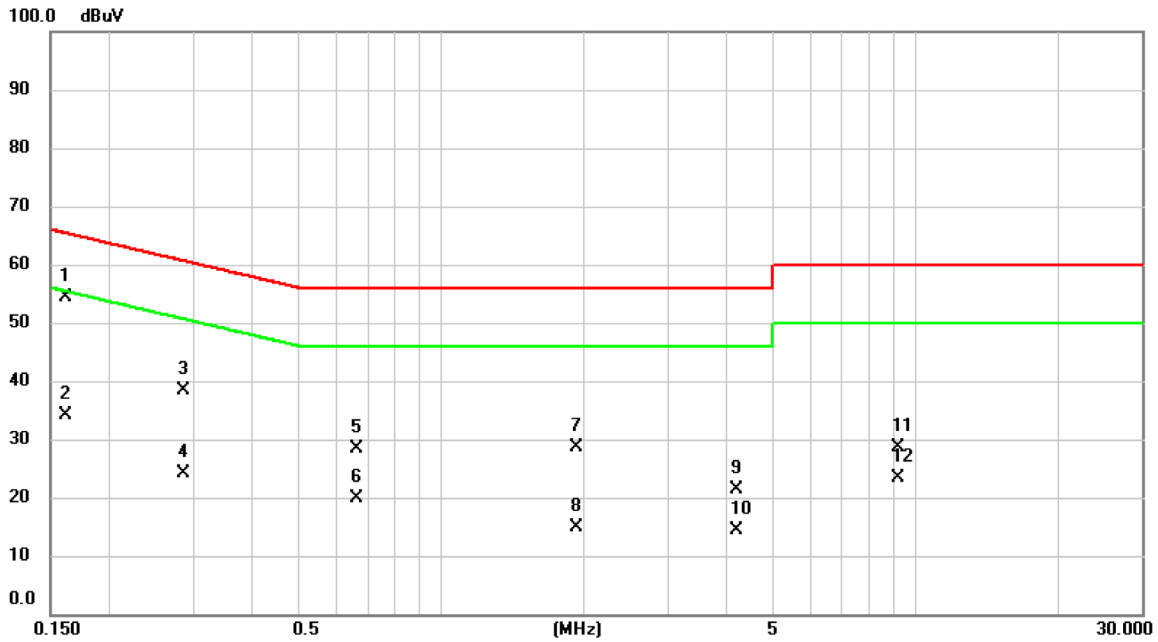
Test Mode	Normal	Tested Date	2023/12/22
Test Frequency	-	Phase	Neutral



No.	Mk.	Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	*	0.1613	43.26	9.59	52.85	65.40	-12.55	QP	
2		0.1613	23.92	9.59	33.51	55.40	-21.89	AVG	
3		0.3187	27.58	9.57	37.15	59.74	-22.59	QP	
4		0.3187	14.27	9.57	23.84	49.74	-25.90	AVG	
5		1.2503	14.15	9.59	23.74	56.00	-32.26	QP	
6		1.2503	6.10	9.59	15.69	46.00	-30.31	AVG	
7		3.7928	18.23	9.63	27.86	56.00	-28.14	QP	
8		3.7928	10.77	9.63	20.40	46.00	-25.60	AVG	
9		8.8260	23.33	9.72	33.05	60.00	-26.95	QP	
10		8.8260	17.21	9.72	26.93	50.00	-23.07	AVG	
11		17.6213	16.05	9.81	25.86	60.00	-34.14	QP	
12		17.6213	10.33	9.81	20.14	50.00	-29.86	AVG	

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

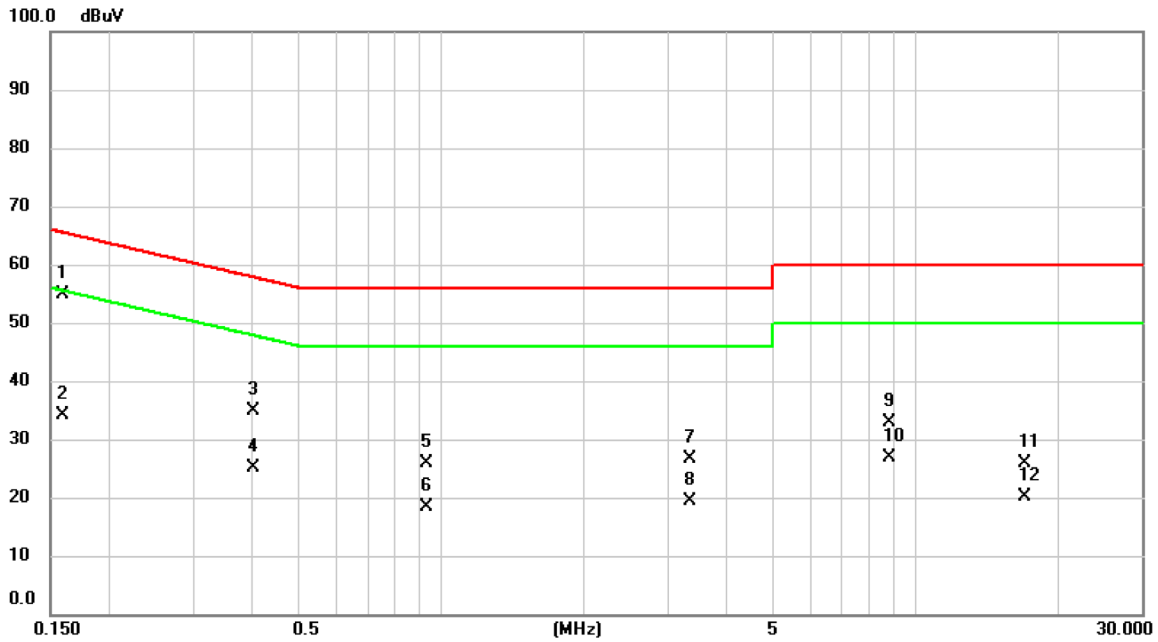
Test Mode	Idle	Tested Date	2023/12/22
Test Frequency	-	Phase	Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1613	44.82	9.60	54.42	65.40	-10.98	QP	
2		0.1613	24.65	9.60	34.25	55.40	-21.15	AVG	
3		0.2872	28.88	9.58	38.46	60.60	-22.14	QP	
4		0.2872	14.67	9.58	24.25	50.60	-26.35	AVG	
5		0.6630	18.75	9.58	28.33	56.00	-27.67	QP	
6		0.6630	10.19	9.58	19.77	46.00	-26.23	AVG	
7		1.9343	18.87	9.65	28.52	56.00	-27.48	QP	
8		1.9343	5.14	9.65	14.79	46.00	-31.21	AVG	
9		4.2090	11.72	9.64	21.36	56.00	-34.64	QP	
10		4.2090	4.77	9.64	14.41	46.00	-31.59	AVG	
11		9.2108	19.01	9.72	28.73	60.00	-31.27	QP	
12		9.2108	13.61	9.72	23.33	50.00	-26.67	AVG	

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

Test Mode	Idle	Tested Date	2023/12/22
Test Frequency	-	Phase	Neutral

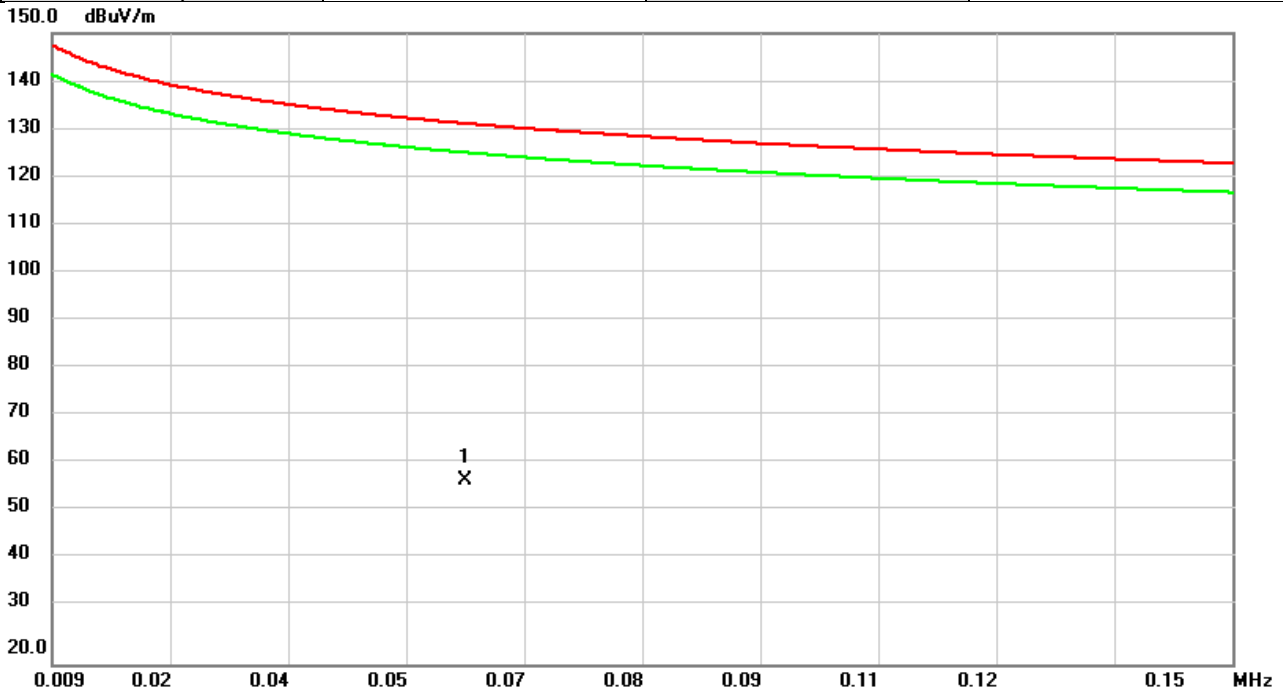


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1598	45.24	9.59	54.83	65.47	-10.64	QP	
2		0.1598	24.46	9.59	34.05	55.47	-21.42	AVG	
3		0.4020	25.20	9.57	34.77	57.81	-23.04	QP	
4		0.4020	15.46	9.57	25.03	47.81	-22.78	AVG	
5		0.9330	16.24	9.57	25.81	56.00	-30.19	QP	
6		0.9330	8.91	9.57	18.48	46.00	-27.52	AVG	
7		3.3428	16.95	9.63	26.58	56.00	-29.42	QP	
8		3.3428	9.77	9.63	19.40	46.00	-26.60	AVG	
9		8.7833	23.12	9.72	32.84	60.00	-27.16	QP	
10		8.7833	17.08	9.72	26.80	50.00	-23.20	AVG	
11		16.9710	16.00	9.80	25.80	60.00	-34.20	QP	
12		16.9710	10.30	9.80	20.10	50.00	-29.90	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 802.11n (HT40)	Test Date	2023/12/15
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	56%

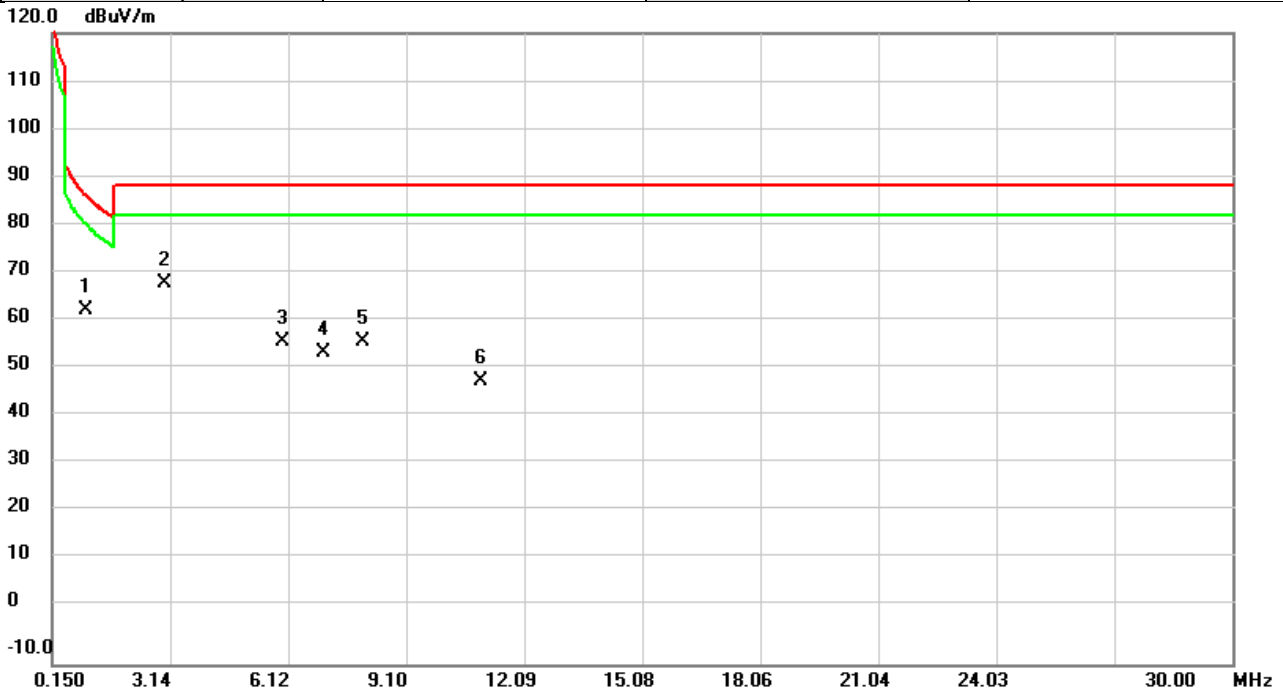


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.0583	35.54	22.21	57.75	131.37	-73.62	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/12/15
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	56%

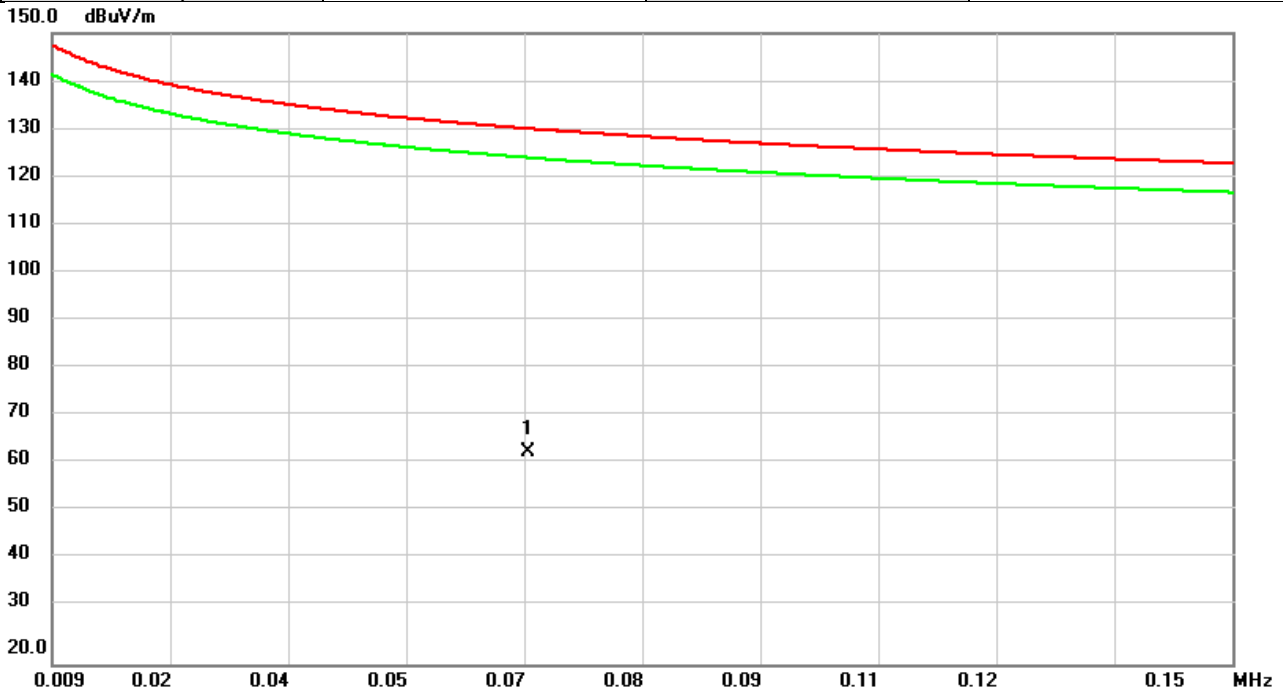


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		0.9997	62.00	0.83	62.83	86.68	-23.85	QP	
2	*	2.9997	72.38	-3.79	68.59	88.62	-20.03	QP	
3		5.9995	60.80	-4.21	56.59	88.62	-32.03	QP	
4		6.9996	58.28	-3.96	54.32	88.62	-34.30	QP	
5		8.0006	60.02	-3.70	56.32	88.62	-32.30	QP	
6		10.9995	51.72	-3.29	48.43	88.62	-40.19	QP	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/12/15
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	56%

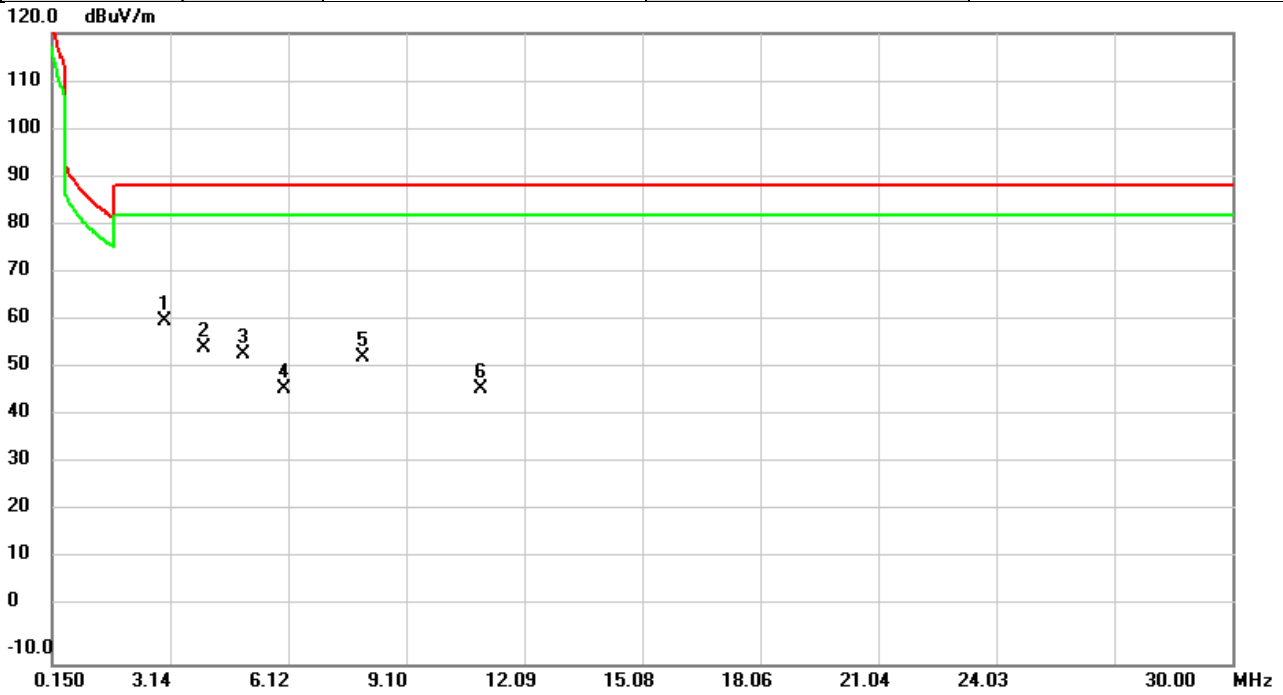


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.0658	42.64	21.19	63.83	130.32	-66.49	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/12/15
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	56%



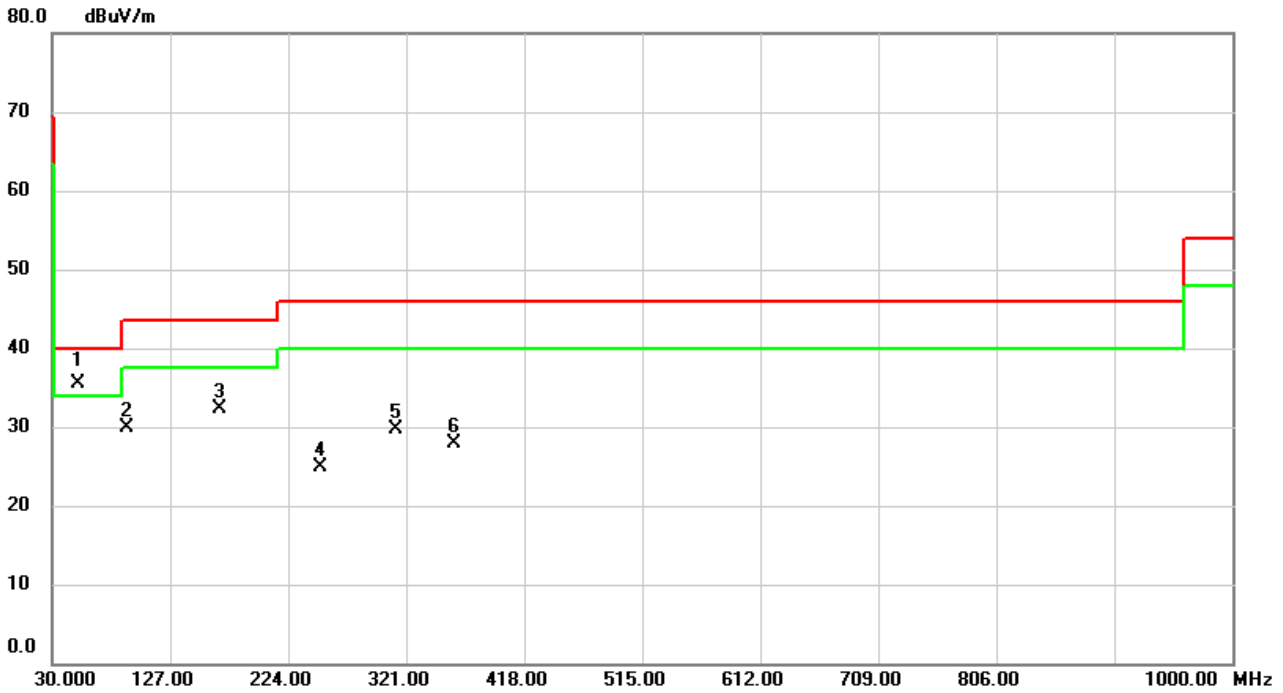
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2.9997	64.52	-3.79	60.73	88.62	-27.89	peak	
2		3.9997	59.35	-4.12	55.23	88.62	-33.39	peak	
3		4.9995	58.32	-4.46	53.86	88.62	-34.76	peak	
4		6.0006	50.79	-4.21	46.58	88.62	-42.04	peak	
5		8.0006	56.83	-3.70	53.13	88.62	-35.49	peak	
6		10.9995	49.85	-3.29	46.56	88.62	-42.06	peak	

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 802.11n (HT40)	Test Date	2023/12/15
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	56%

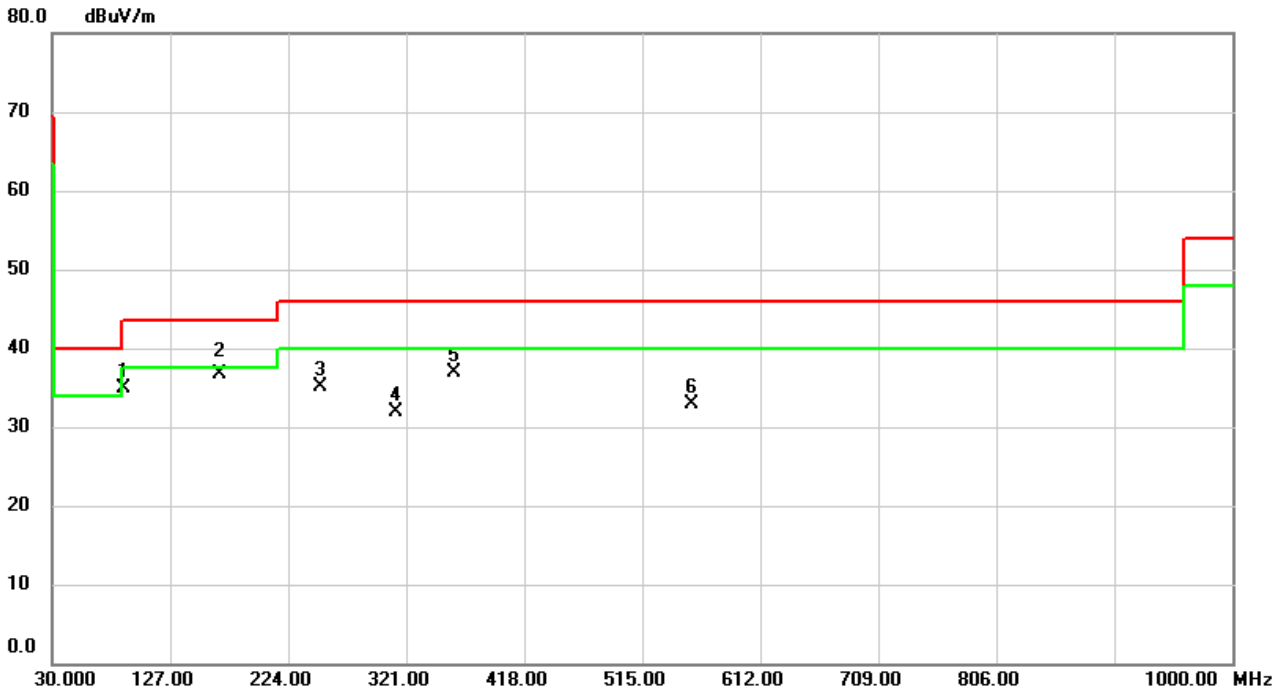


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	51.4370	46.83	-11.31	35.52	40.00	-4.48	QP	
2		91.1747	47.48	-17.61	29.87	43.50	-13.63	peak	
3		167.9987	44.48	-12.18	32.30	43.50	-11.20	peak	
4		249.9960	37.94	-13.07	24.87	46.00	-21.13	peak	
5		312.0113	40.76	-11.02	29.74	46.00	-16.26	peak	
6		360.0587	37.72	-9.87	27.85	46.00	-18.15	peak	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/12/15
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	56%



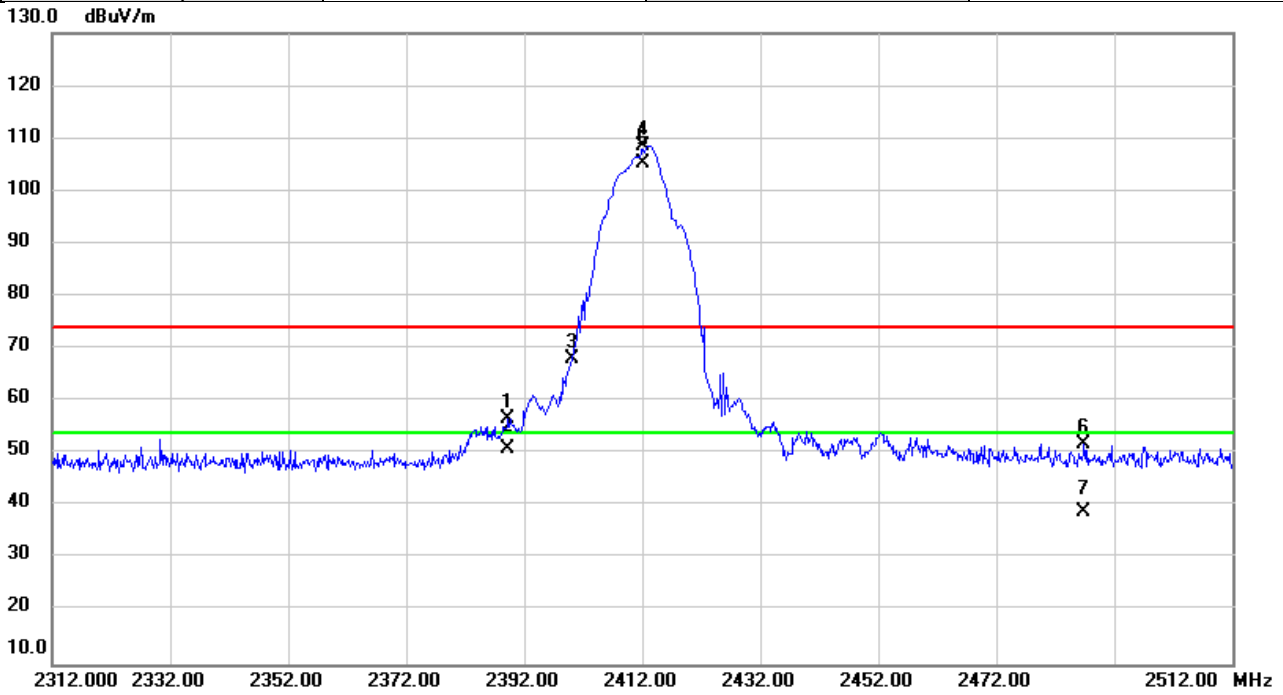
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		89.2347	52.56	-17.64	34.92	43.50	-8.58	peak	
2	*	167.9663	48.95	-12.18	36.77	43.50	-6.73	QP	
3		249.9960	48.16	-13.07	35.09	46.00	-10.91	peak	
4		312.0113	42.96	-11.02	31.94	46.00	-14.06	peak	
5		359.9940	46.84	-9.87	36.97	46.00	-9.03	peak	
6		555.3842	38.14	-5.23	32.91	46.00	-13.09	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	2024/1/30
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	56%

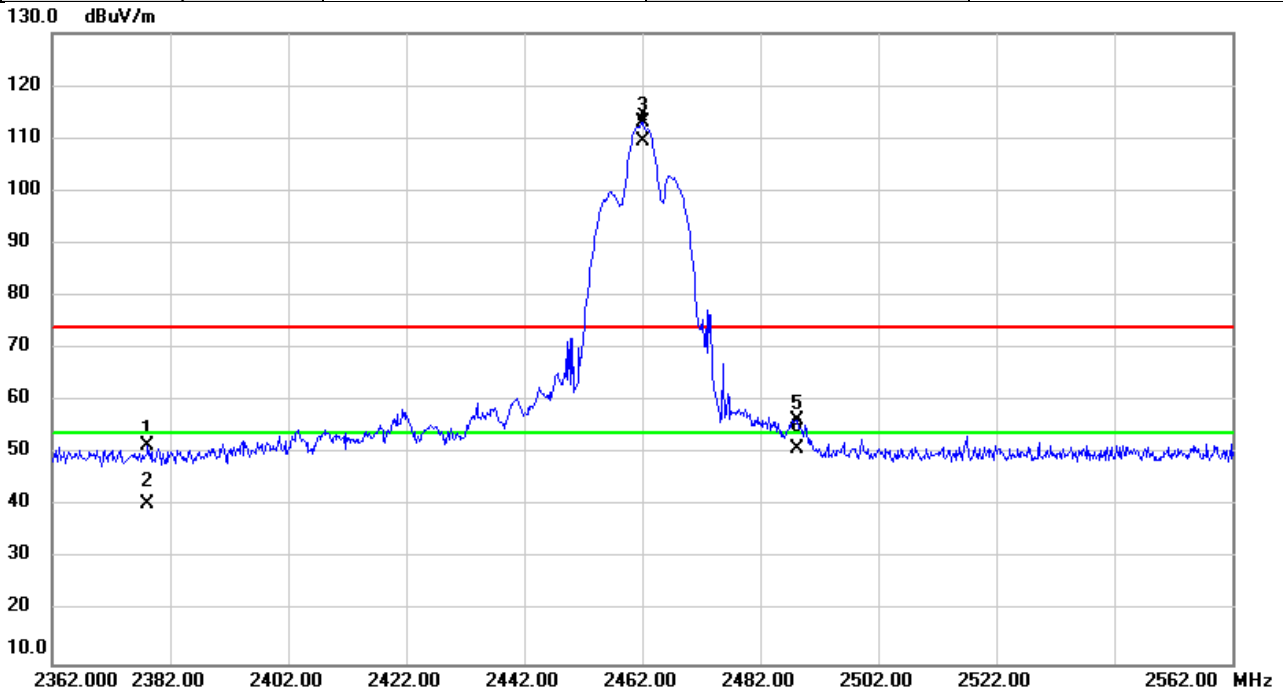


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2389.247	62.29	-5.58	56.71	74.00	-17.29	peak	
2		2389.247	56.59	-5.58	51.01	54.00	-2.99	AVG	
3		2400.000	73.72	-5.56	68.16	74.00	-5.84	peak	No Limit
4	X	2412.000	114.21	-5.53	108.68	74.00	34.68	peak	No Limit
5	*	2412.000	110.92	-5.53	105.39	54.00	51.39	AVG	No Limit
6		2486.873	57.29	-5.40	51.89	74.00	-22.11	peak	
7		2486.873	44.40	-5.40	39.00	54.00	-15.00	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2024/1/30
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	56%

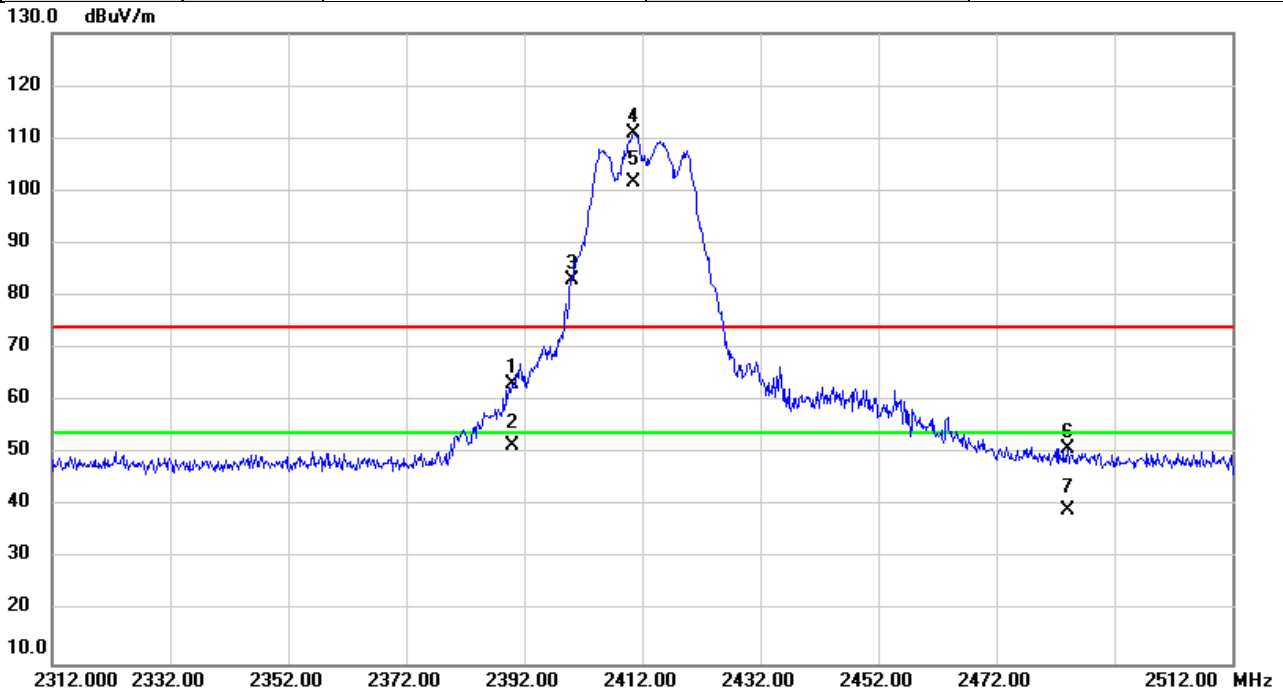


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2378.260	57.28	-5.59	51.69	74.00	-22.31	peak	
2		2378.260	45.99	-5.59	40.40	54.00	-13.60	AVG	
3	X	2462.000	118.56	-5.45	113.11	74.00	39.11	peak	No Limit
4	*	2462.000	114.90	-5.45	109.45	54.00	55.45	AVG	No Limit
5		2488.200	61.73	-5.40	56.33	74.00	-17.67	peak	
6		2488.200	56.26	-5.40	50.86	54.00	-3.14	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2024/1/30
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	56%

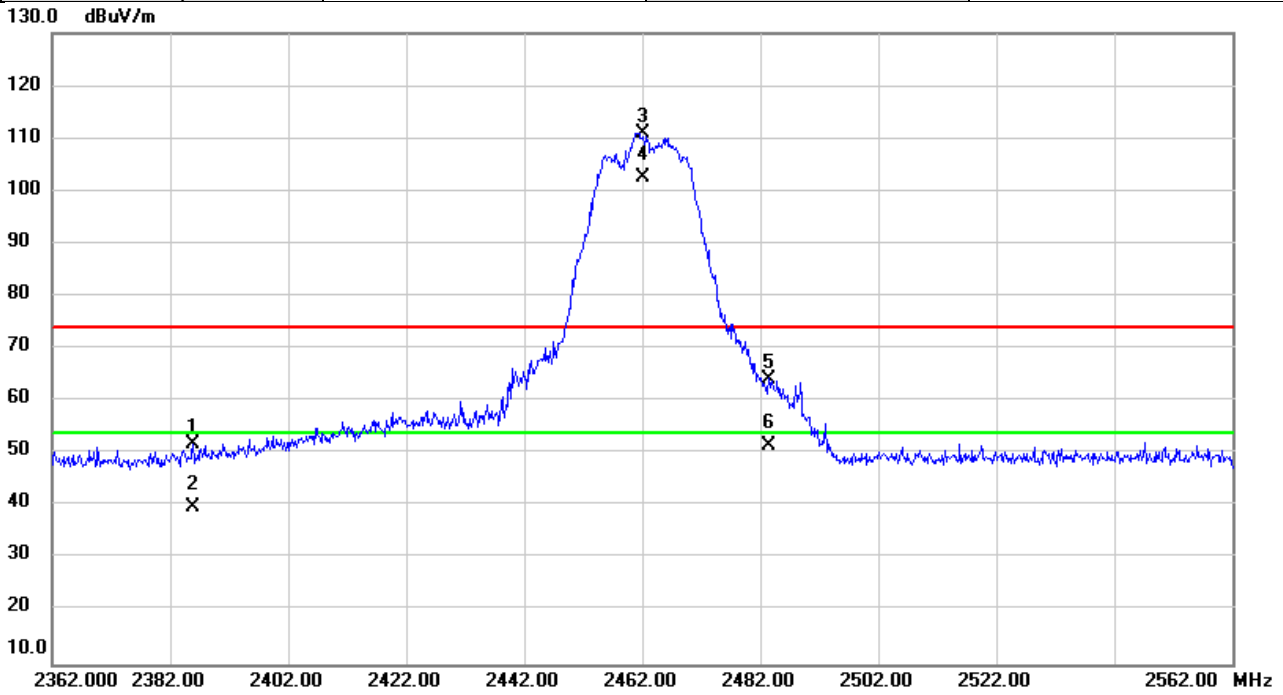


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2389.958	68.75	-5.58	63.17	74.00	-10.83	peak	
2		2389.958	57.11	-5.58	51.53	54.00	-2.47	AVG	
3	X	2400.000	88.66	-5.56	83.10	74.00	9.10	peak	No Limit
4	X	2410.447	116.52	-5.54	110.98	74.00	36.98	peak	No Limit
5	*	2410.627	107.17	-5.54	101.63	54.00	47.63	AVG	No Limit
6		2484.107	56.40	-5.42	50.98	74.00	-23.02	peak	
7		2484.107	44.72	-5.42	39.30	54.00	-14.70	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2024/1/30
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	56%

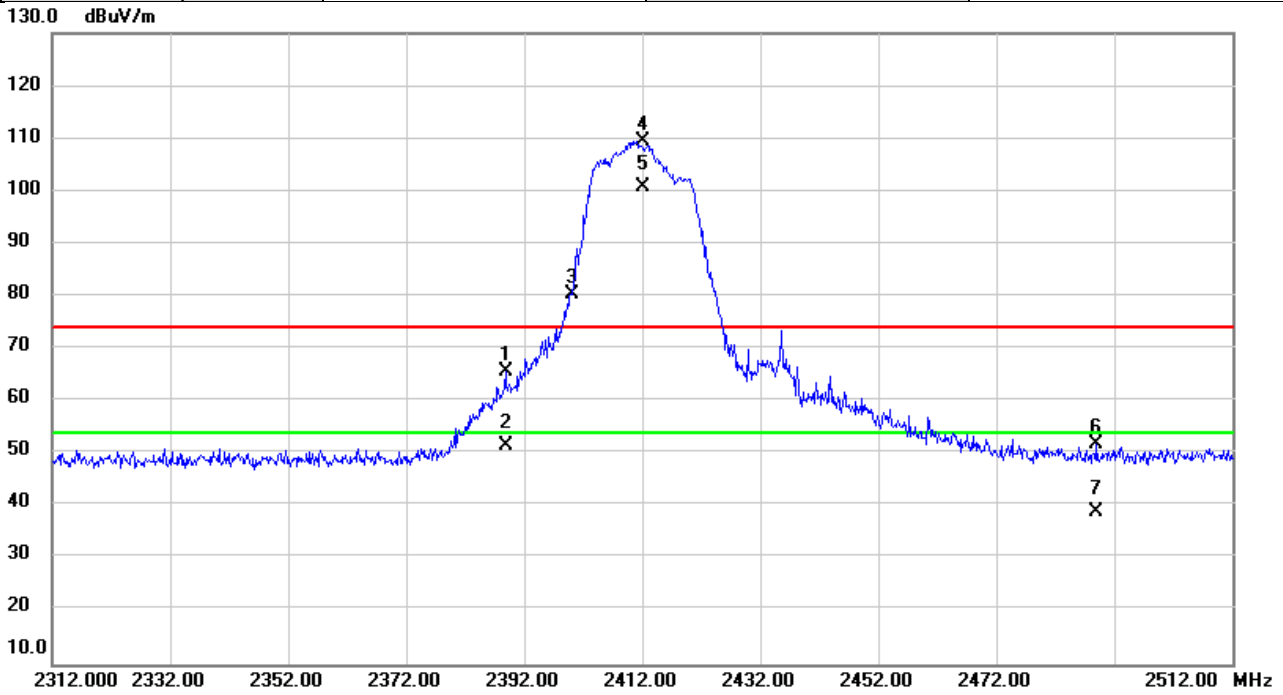


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2385.873	57.48	-5.58	51.90	74.00	-22.10	peak	
2		2385.873	45.42	-5.58	39.84	54.00	-14.16	AVG	
3	X	2462.000	116.51	-5.45	111.06	74.00	37.06	peak	No Limit
4	*	2462.000	107.92	-5.45	102.47	54.00	48.47	AVG	No Limit
5		2483.513	69.72	-5.42	64.30	74.00	-9.70	peak	
6		2483.513	56.92	-5.42	51.50	54.00	-2.50	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT 20)	Test Date	2024/1/30
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	56%

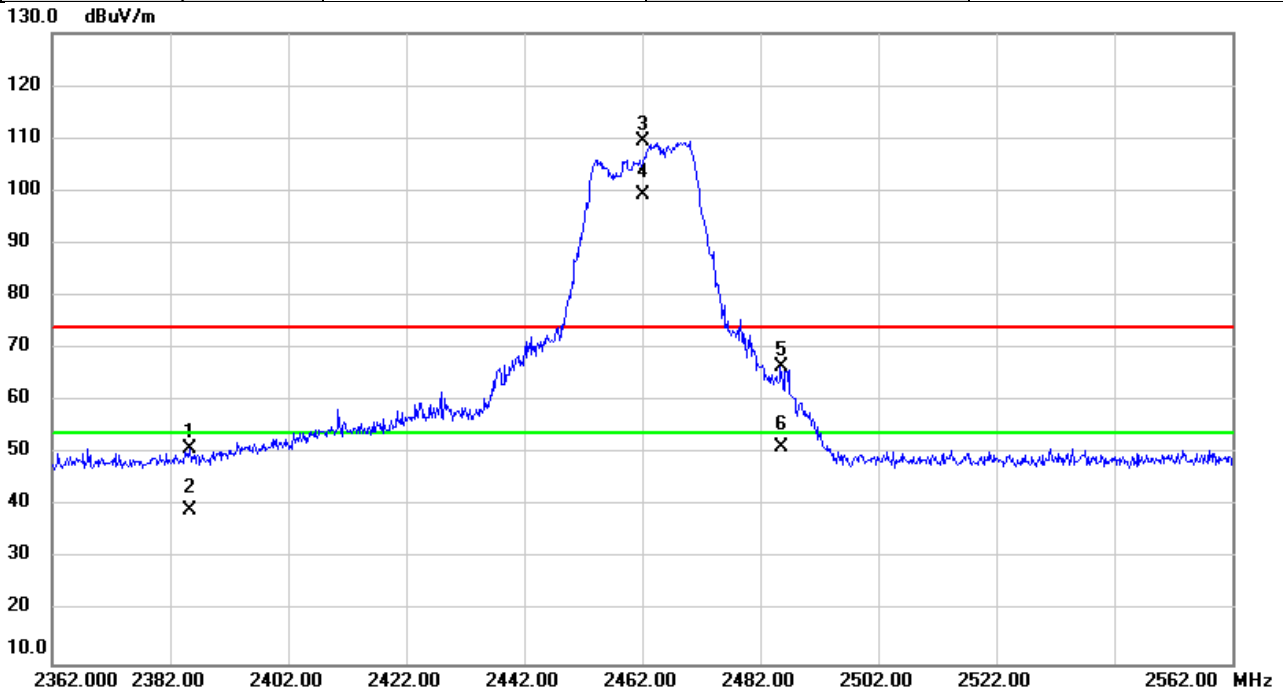


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2388.907	71.09	-5.58	65.51	74.00	-8.49	peak	
2		2388.907	57.08	-5.58	51.50	54.00	-2.50	AVG	
3	X	2400.000	85.84	-5.56	80.28	74.00	6.28	peak	No Limit
4	X	2412.000	115.12	-5.53	109.59	74.00	35.59	peak	No Limit
5	*	2412.000	106.18	-5.53	100.65	54.00	46.65	AVG	No Limit
6		2489.047	57.11	-5.40	51.71	74.00	-22.29	peak	
7		2489.047	44.43	-5.40	39.03	54.00	-14.97	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2024/1/30
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	56%

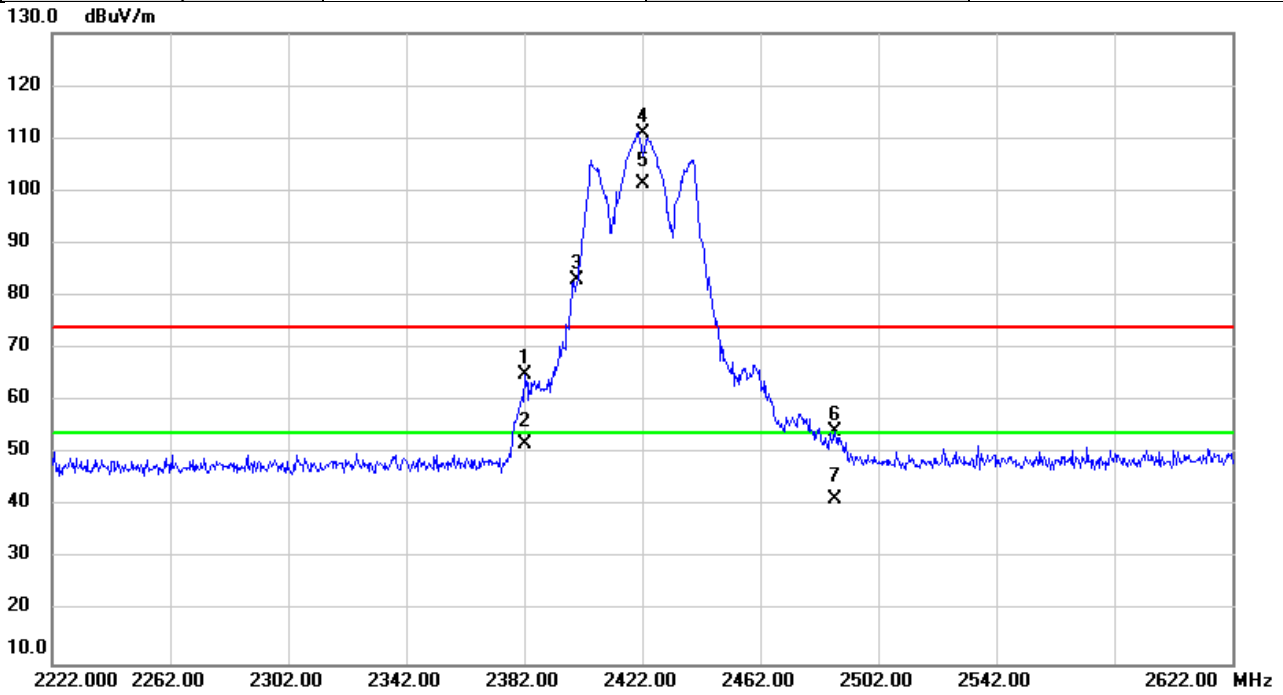


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2385.340	56.64	-5.58	51.06	74.00	-22.94	peak	
2		2385.340	44.69	-5.58	39.11	54.00	-14.89	AVG	
3	X	2462.000	114.76	-5.45	109.31	74.00	35.31	peak	No Limit
4	*	2462.000	104.77	-5.45	99.32	54.00	45.32	AVG	No Limit
5		2485.467	71.80	-5.40	66.40	74.00	-7.60	peak	
6		2485.467	56.63	-5.40	51.23	54.00	-2.77	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2024/1/30
Test Frequency	2422MHz	Polarization	Horizontal
Temp	23°C	Hum.	56%

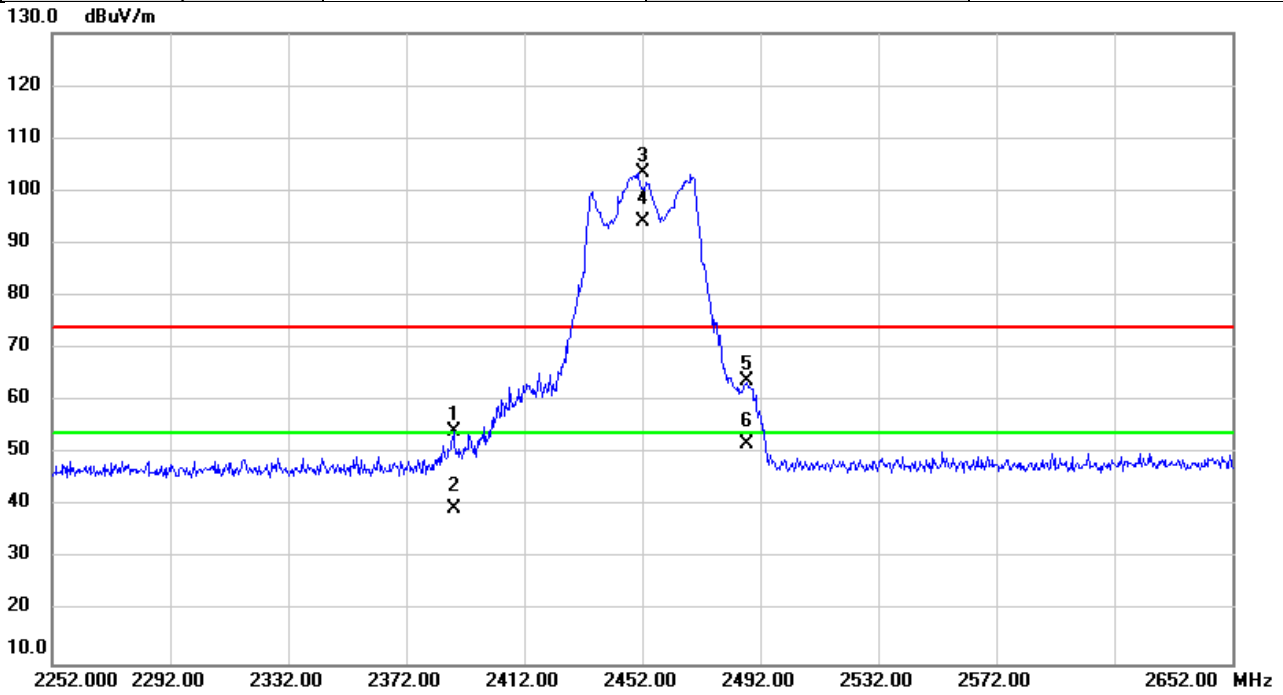


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2382.133	70.61	-5.58	65.03	74.00	-8.97	peak	
2		2382.133	57.48	-5.58	51.90	54.00	-2.10	AVG	
3	X	2400.000	88.63	-5.56	83.07	74.00	9.07	peak	No Limit
4	X	2422.000	116.61	-5.51	111.10	74.00	37.10	peak	No Limit
5	*	2422.000	107.01	-5.51	101.50	54.00	47.50	AVG	No Limit
6		2487.467	59.75	-5.40	54.35	74.00	-19.65	peak	
7		2487.467	46.78	-5.40	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 802.11n (HT 40)	Test Date	2024/1/30
Test Frequency	2452MHz	Polarization	Horizontal
Temp	23°C	Hum.	56%

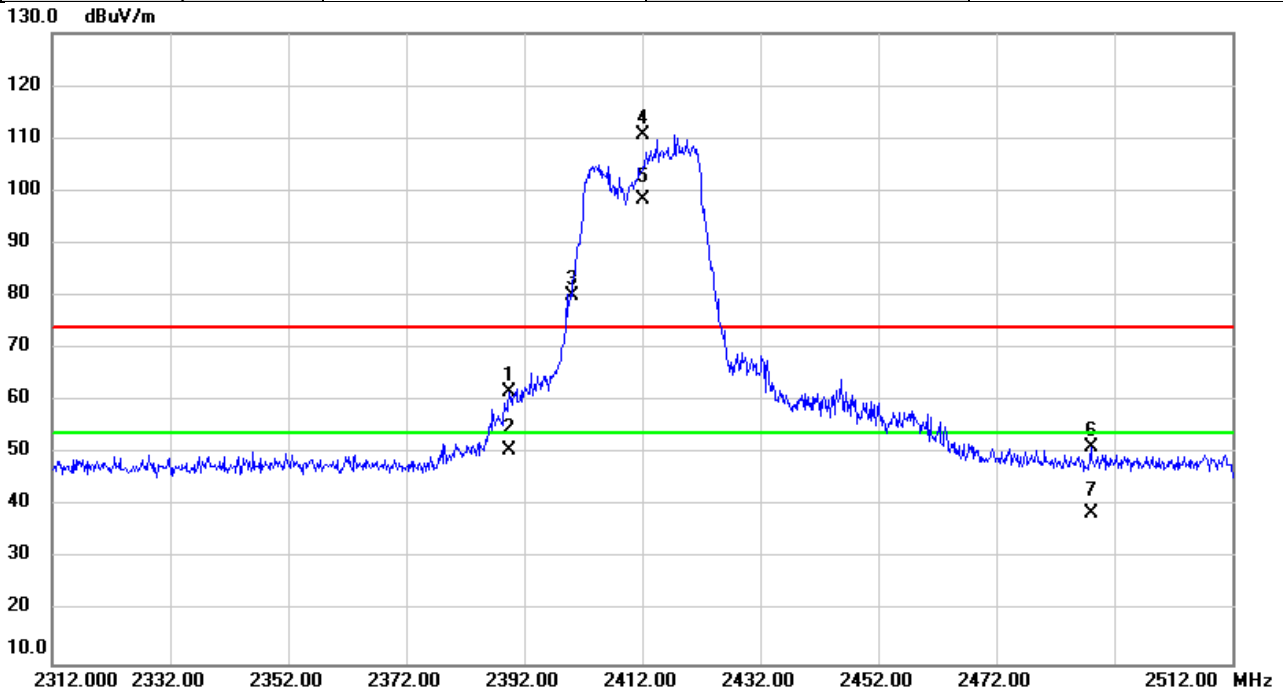


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2388.360	59.92	-5.58	54.34	74.00	-19.66	peak	
2		2388.360	45.20	-5.58	39.62	54.00	-14.38	AVG	
3	X	2452.000	108.82	-5.47	103.35	74.00	29.35	peak	No Limit
4	*	2452.000	99.70	-5.47	94.23	54.00	40.23	AVG	No Limit
5		2487.733	69.10	-5.40	63.70	74.00	-10.30	peak	
6		2487.733	57.35	-5.40	51.95	54.00	-2.05	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/1/30
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	56%

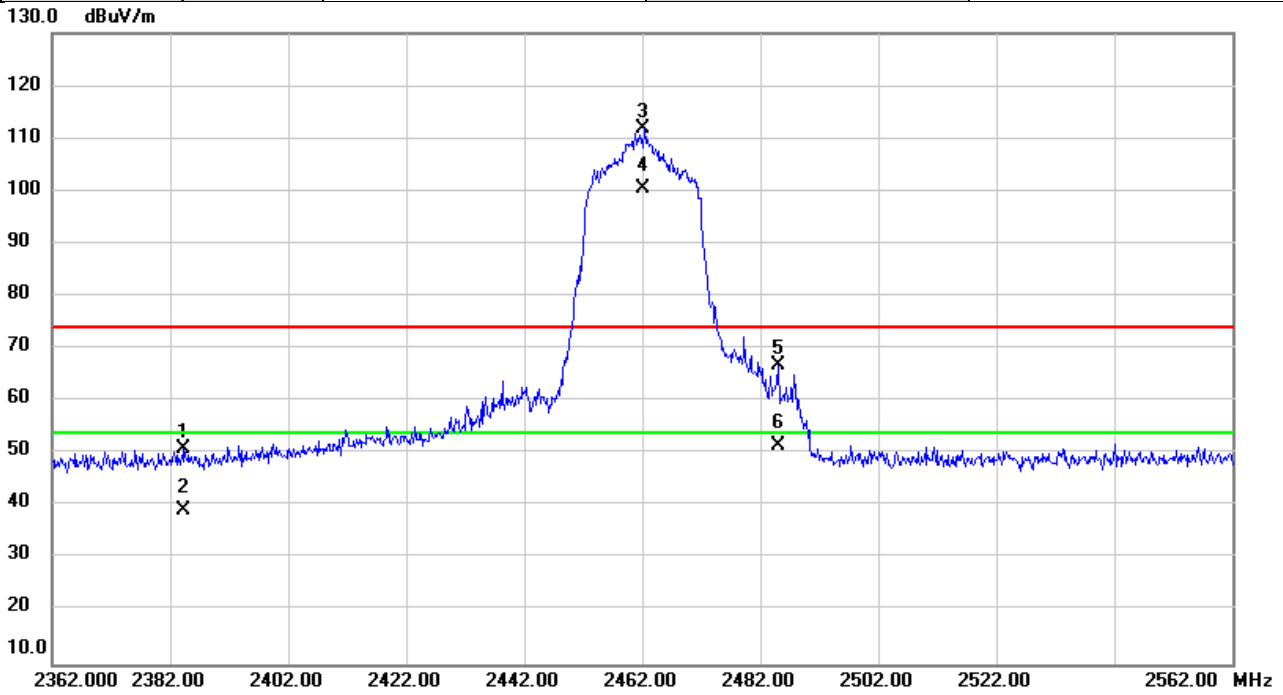


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2389.433	67.26	-5.58	61.68	74.00	-12.32	peak	
2		2389.433	56.20	-5.58	50.62	54.00	-3.38	AVG	
3	X	2400.000	85.61	-5.56	80.05	74.00	6.05	peak	No Limit
4	X	2412.000	116.15	-5.53	110.62	74.00	36.62	peak	No Limit
5	*	2412.000	103.98	-5.53	98.45	54.00	44.45	AVG	No Limit
6		2488.027	56.74	-5.40	51.34	74.00	-22.66	peak	
7		2488.027	44.10	-5.40	38.70	54.00	-15.30	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/1/30
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	56%

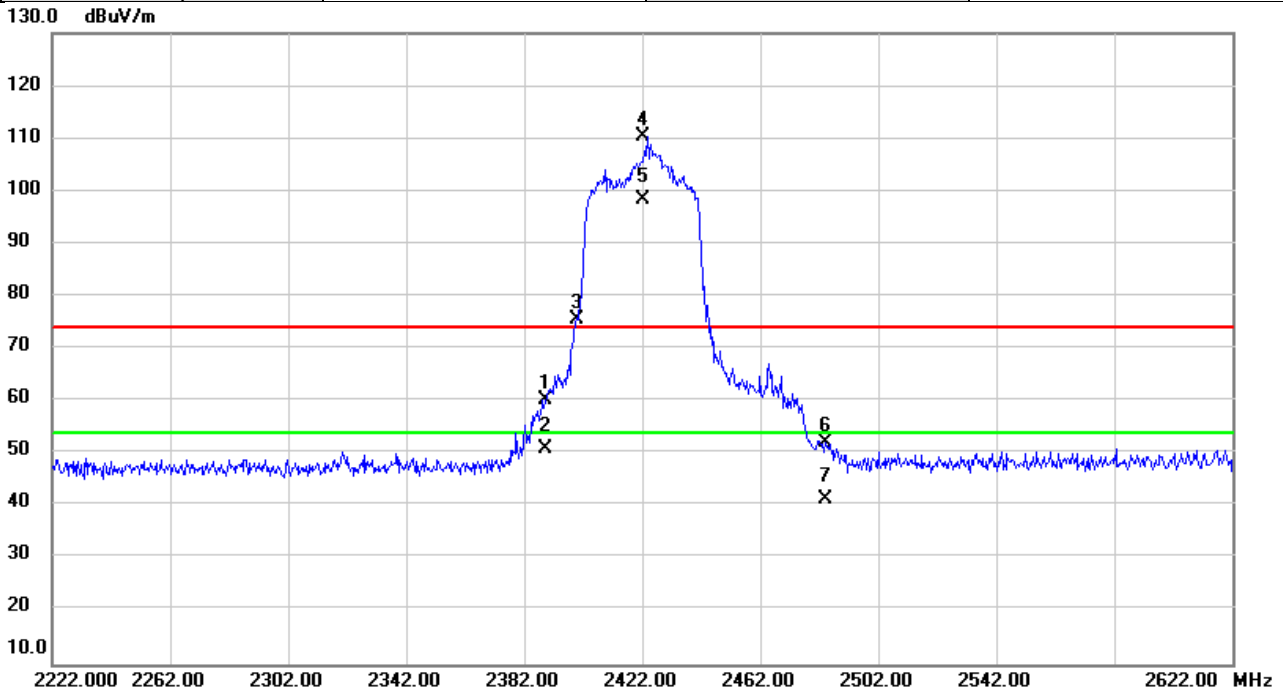


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2384.320	56.48	-5.59	50.89	74.00	-23.11	peak	
2		2384.320	44.70	-5.59	39.11	54.00	-14.89	AVG	
3	X	2462.000	117.20	-5.45	111.75	74.00	37.75	peak	No Limit
4	*	2462.000	105.92	-5.45	100.47	54.00	46.47	AVG	No Limit
5		2485.047	72.27	-5.40	66.87	74.00	-7.13	peak	
6		2485.047	56.95	-5.40	51.55	54.00	-2.45	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2024/1/30
Test Frequency	2422MHz	Polarization	Horizontal
Temp	23°C	Hum.	56%

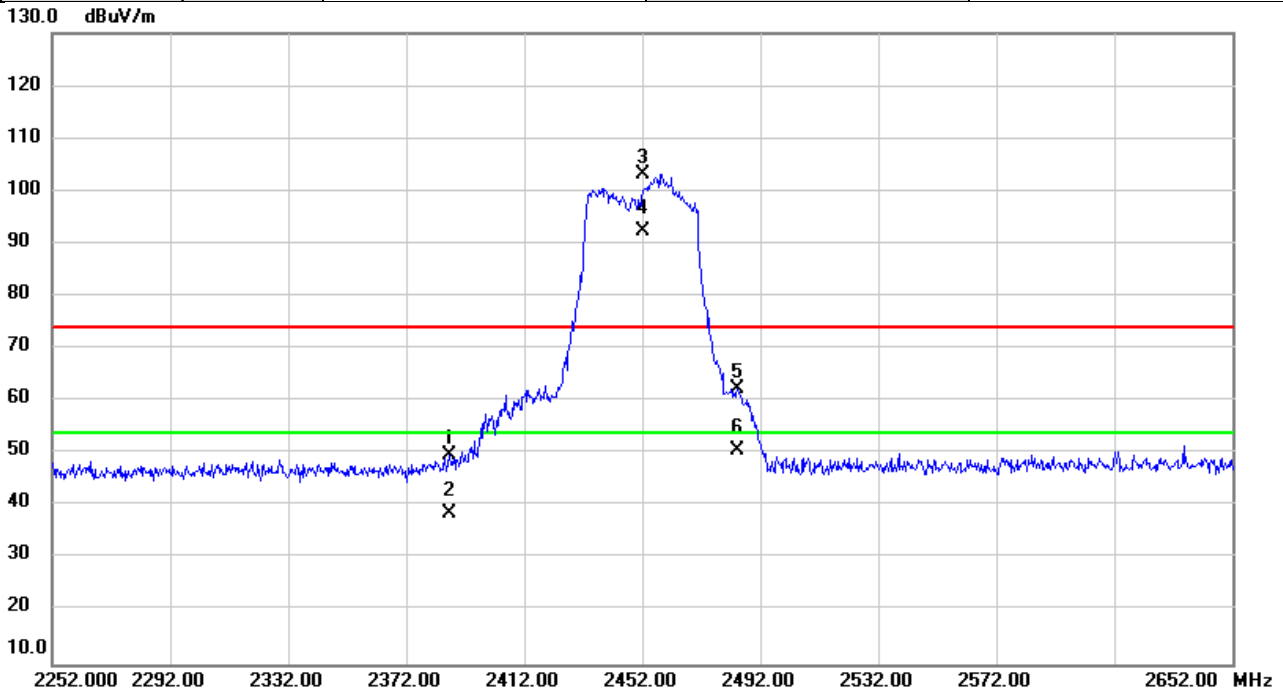


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2388.973	65.78	-5.58	60.20	74.00	-13.80	peak	
2		2388.973	56.46	-5.58	50.88	54.00	-3.12	AVG	
3	X	2400.000	81.19	-5.56	75.63	74.00	1.63	peak	No Limit
4	X	2422.000	115.80	-5.51	110.29	74.00	36.29	peak	No Limit
5	*	2422.000	103.78	-5.51	98.27	54.00	44.27	AVG	No Limit
6		2484.160	57.66	-5.42	52.24	74.00	-21.76	peak	
7		2484.160	46.63	-5.42	41.21	54.00	-12.79	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2024/1/30
Test Frequency	2452MHz	Polarization	Horizontal
Temp	23°C	Hum.	56%

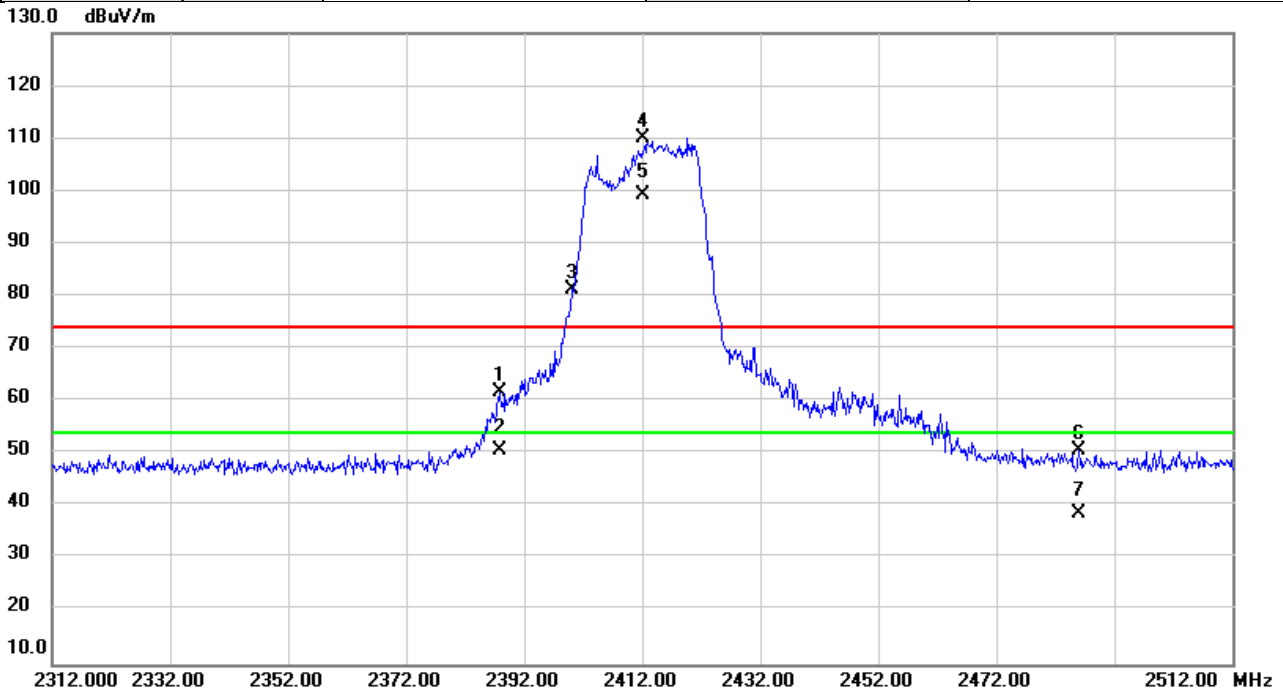


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2386.453	55.34	-5.58	49.76	74.00	-24.24	peak	
2		2386.453	44.38	-5.58	38.80	54.00	-15.20	AVG	
3	X	2452.000	108.69	-5.47	103.22	74.00	29.22	peak	No Limit
4	*	2452.000	97.96	-5.47	92.49	54.00	38.49	AVG	No Limit
5		2484.040	67.73	-5.42	62.31	74.00	-11.69	peak	
6		2484.040	56.15	-5.42	50.73	54.00	-3.27	AVG	

REMARKS:

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

Test Mode	IEEE 802.11be (EHT20)	Test Date	2024/1/30
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	56%

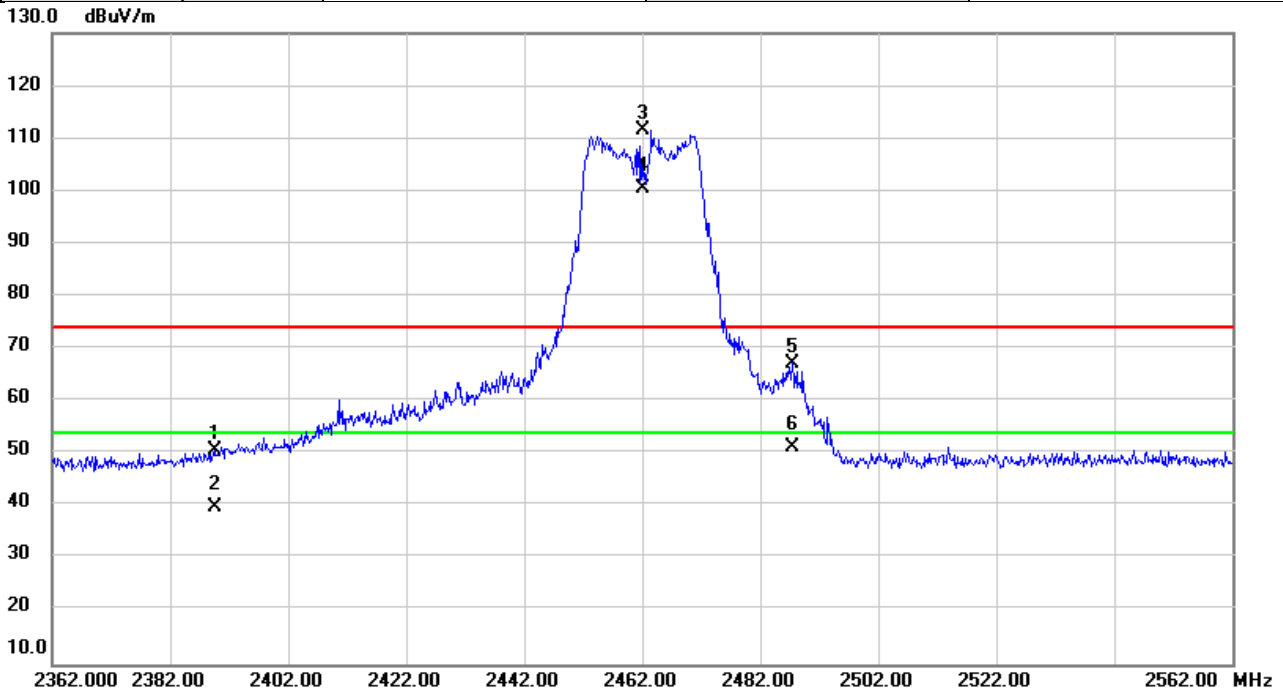


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2387.787	67.34	-5.58	61.76	74.00	-12.24	peak	
2		2387.787	56.25	-5.58	50.67	54.00	-3.33	AVG	
3	X	2400.000	86.73	-5.56	81.17	74.00	7.17	peak	No Limit
4	X	2412.000	115.54	-5.53	110.01	74.00	36.01	peak	No Limit
5	*	2412.000	104.70	-5.53	99.17	54.00	45.17	AVG	No Limit
6		2485.893	56.17	-5.40	50.77	74.00	-23.23	peak	
7		2485.893	43.96	-5.40	38.56	54.00	-15.44	AVG	

REMARKS:

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

Test Mode	IEEE 802.11be (EHT20)	Test Date	2024/1/31
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

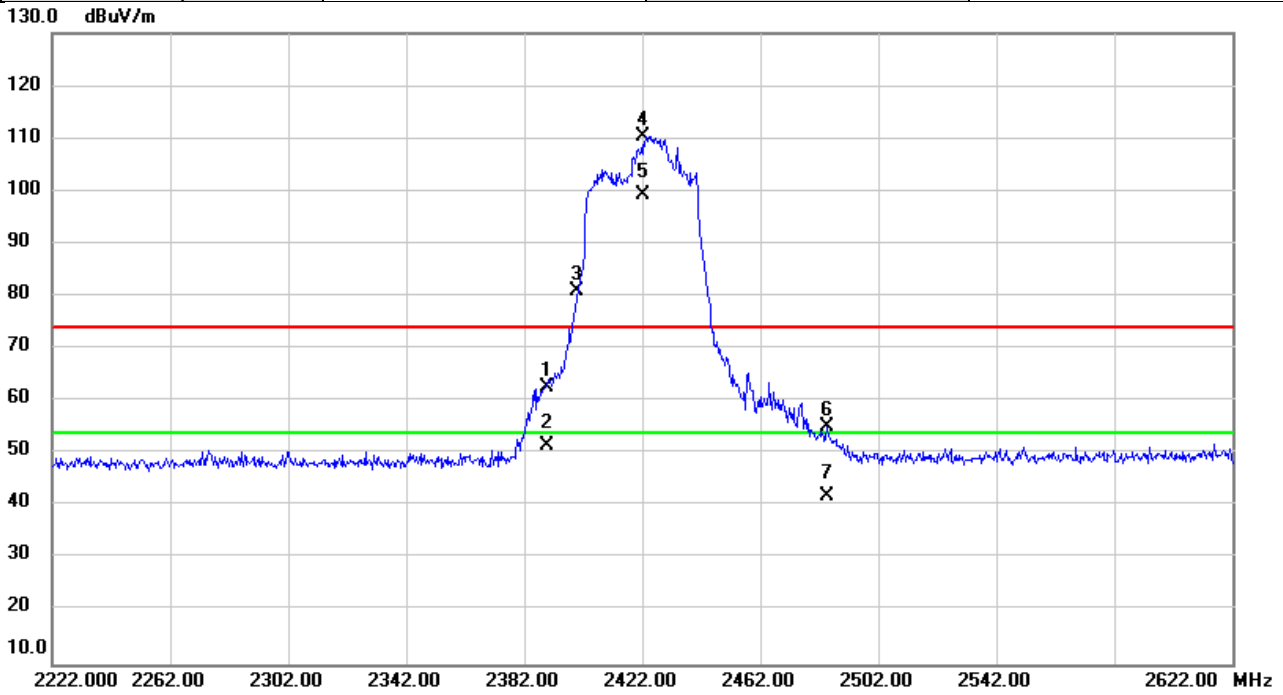


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2389.493	56.25	-5.58	50.67	74.00	-23.33	peak	
2		2389.493	45.39	-5.58	39.81	54.00	-14.19	AVG	
3	X	2462.000	117.08	-5.45	111.63	74.00	37.63	peak	No Limit
4	*	2462.000	105.81	-5.45	100.36	54.00	46.36	AVG	No Limit
5		2487.393	72.70	-5.40	67.30	74.00	-6.70	peak	
6		2487.393	56.62	-5.40	51.22	54.00	-2.78	AVG	

REMARKS:

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

Test Mode	IEEE 802.11be (EHT40)	Test Date	2024/1/31
Test Frequency	2422MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

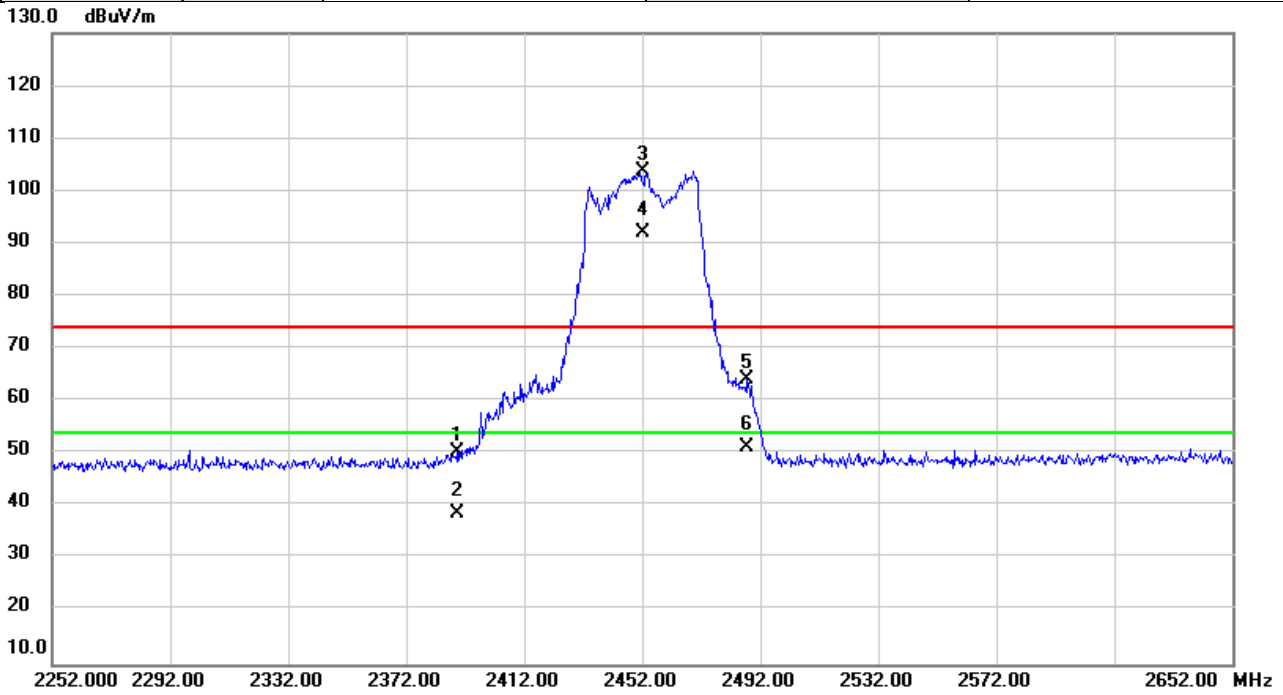


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2389.467	68.27	-5.58	62.69	74.00	-11.31	peak	
2		2389.467	56.99	-5.58	51.41	54.00	-2.59	AVG	
3	X	2400.000	86.42	-5.56	80.86	74.00	6.86	peak	No Limit
4	X	2422.000	115.95	-5.51	110.44	74.00	36.44	peak	No Limit
5	*	2422.000	104.68	-5.51	99.17	54.00	45.17	AVG	No Limit
6		2484.627	60.44	-5.40	55.04	74.00	-18.96	peak	
7		2484.627	47.22	-5.40	41.82	54.00	-12.18	AVG	

REMARKS:

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

Test Mode	IEEE 802.11be (EHT40)	Test Date	2024/1/31
Test Frequency	2452MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

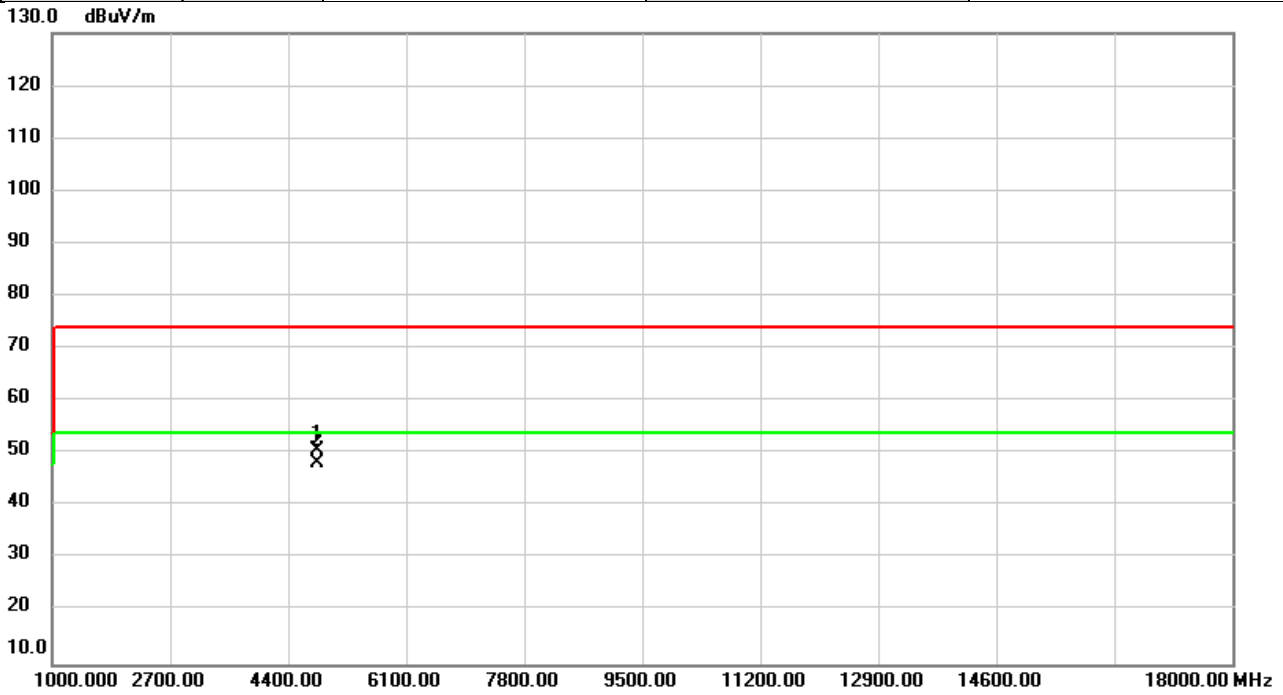


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2389.267	55.86	-5.58	50.28	74.00	-23.72	peak	
2		2389.267	44.11	-5.58	38.53	54.00	-15.47	AVG	
3	X	2452.000	109.27	-5.47	103.80	74.00	29.80	peak	No Limit
4	*	2452.000	97.63	-5.47	92.16	54.00	38.16	AVG	No Limit
5		2487.667	69.56	-5.40	64.16	74.00	-9.84	peak	
6		2487.667	56.51	-5.40	51.11	54.00	-2.89	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/12/11
Test Frequency	2412MHz	Polarization	Vertical
Temp	22°C	Hum.	55%

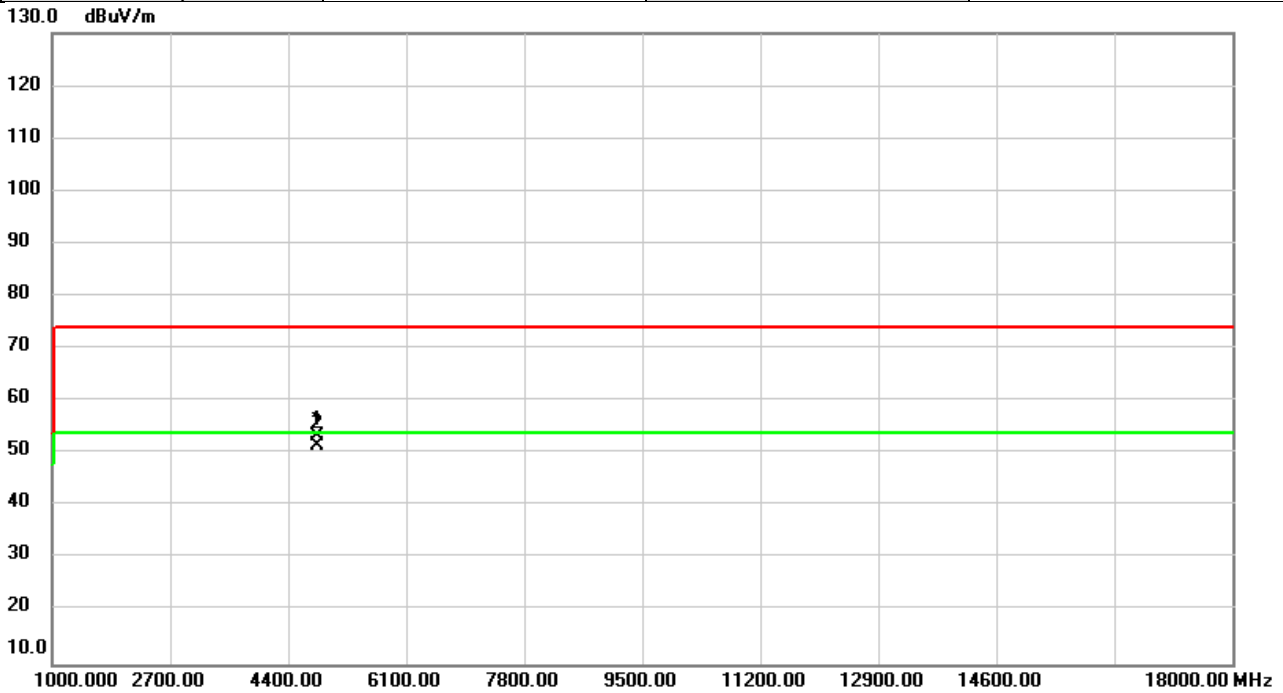


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	50.05	0.57	50.62	74.00	-23.38	peak	
2	*	4824.000	47.80	0.57	48.37	54.00	-5.63	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/12/11
Test Frequency	2412MHz	Polarization	Horizontal
Temp	22°C	Hum.	55%

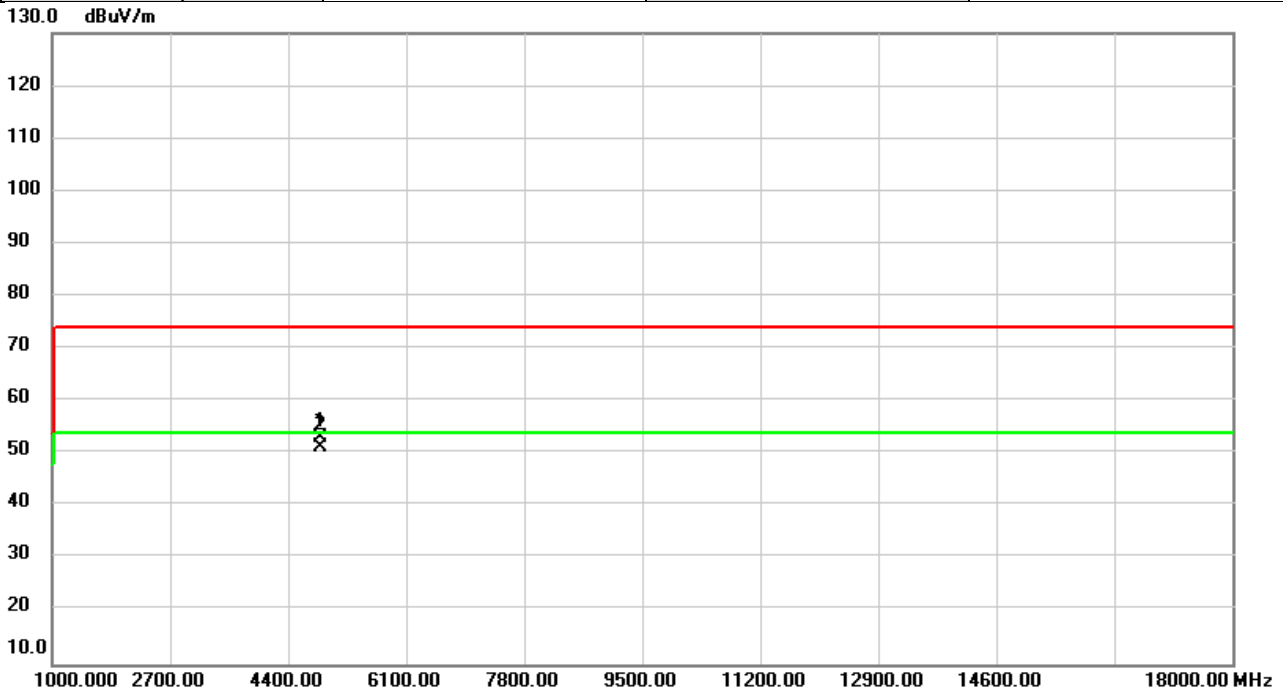


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	52.73	0.57	53.30	74.00	-20.70	peak	
2	*	4824.000	51.12	0.57	51.69	54.00	-2.31	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/12/11
Test Frequency	2437MHz	Polarization	Vertical
Temp	22°C	Hum.	55%

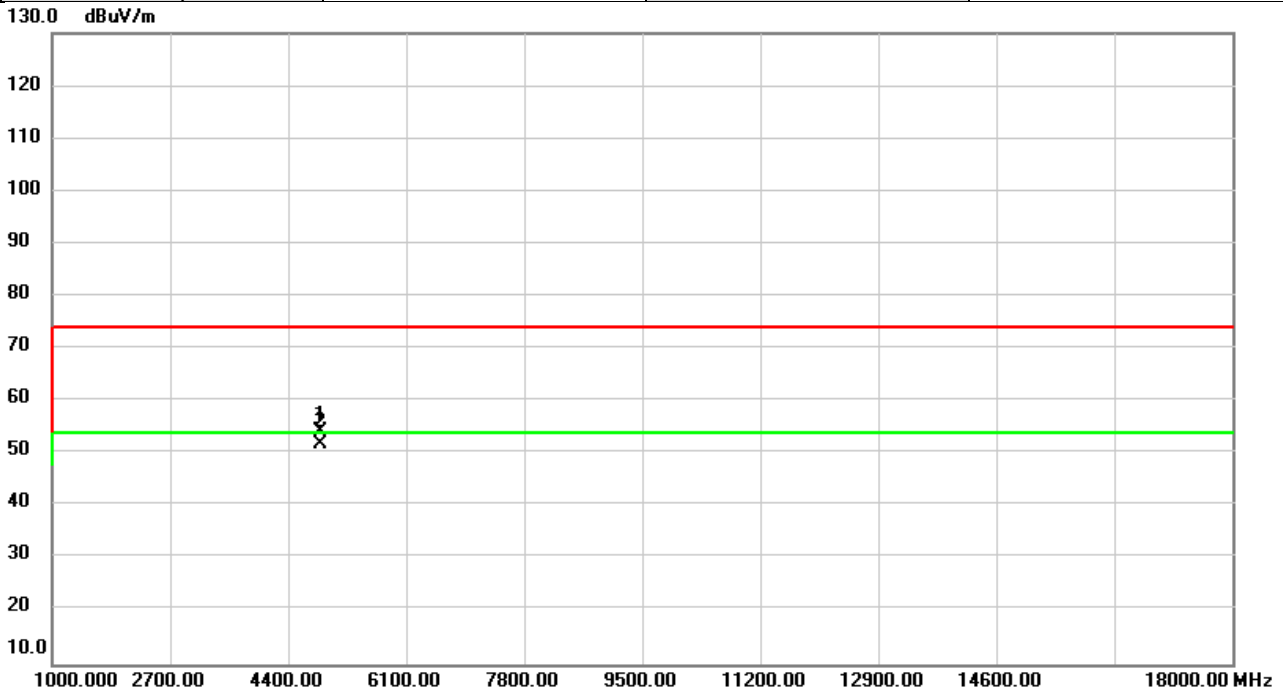


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	52.39	0.73	53.12	74.00	-20.88	peak	
2	*	4874.000	50.46	0.73	51.19	54.00	-2.81	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/12/11
Test Frequency	2437MHz	Polarization	Horizontal
Temp	22°C	Hum.	55%

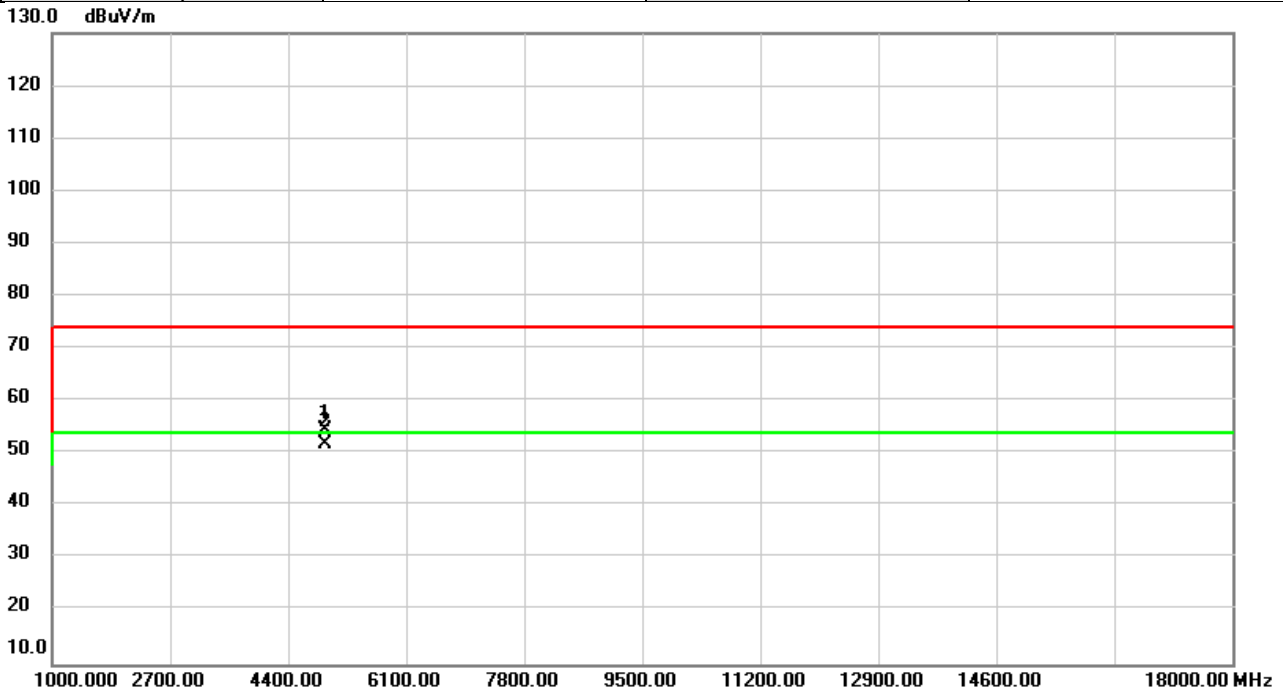


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	53.52	0.73	54.25	74.00	-19.75	peak	
2	*	4874.000	51.12	0.73	51.85	54.00	-2.15	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/12/11
Test Frequency	2462MHz	Polarization	Vertical
Temp	22°C	Hum.	55%

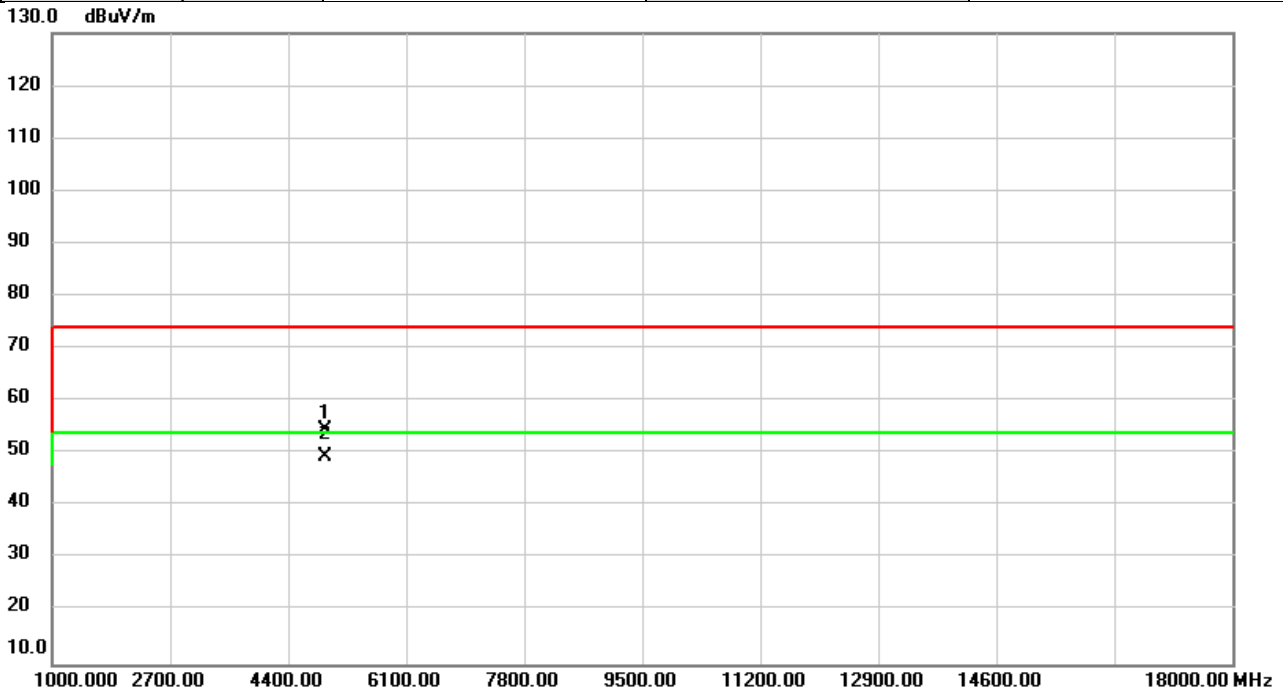


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	53.72	0.87	54.59	74.00	-19.41	peak	
2	*	4924.000	50.85	0.87	51.72	54.00	-2.28	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/12/11
Test Frequency	2462MHz	Polarization	Horizontal
Temp	22°C	Hum.	55%

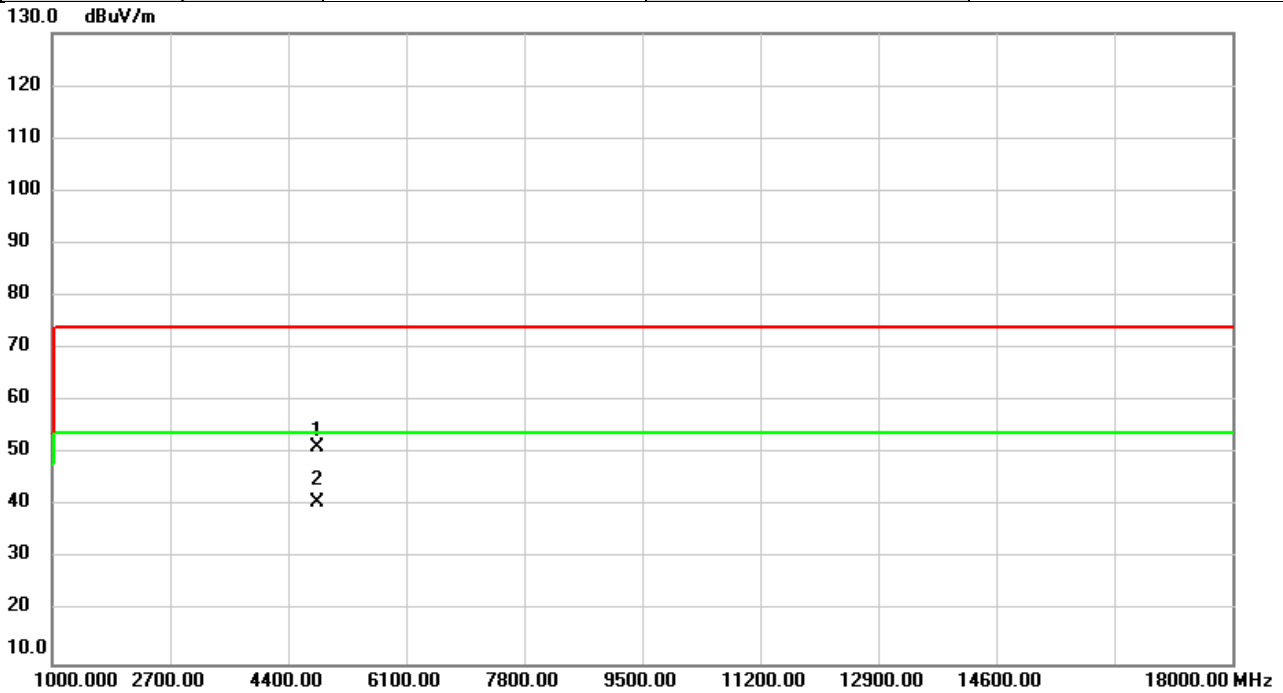


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	53.66	0.87	54.53	74.00	-19.47	peak	
2	*	4924.000	48.58	0.87	49.45	54.00	-4.55	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/12/11
Test Frequency	2412MHz	Polarization	Vertical
Temp	22°C	Hum.	55%

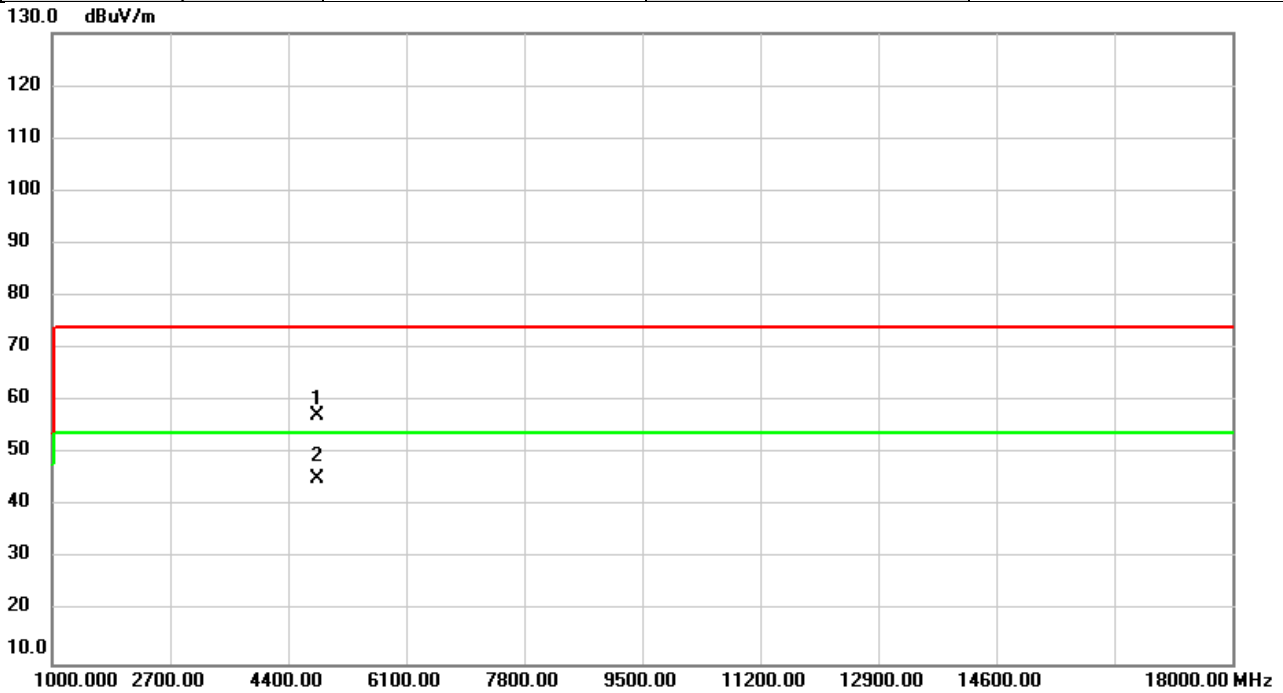


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	50.57	0.57	51.14	74.00	-22.86	peak	
2	*	4824.000	40.22	0.57	40.79	54.00	-13.21	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/12/11
Test Frequency	2412MHz	Polarization	Horizontal
Temp	22°C	Hum.	55%

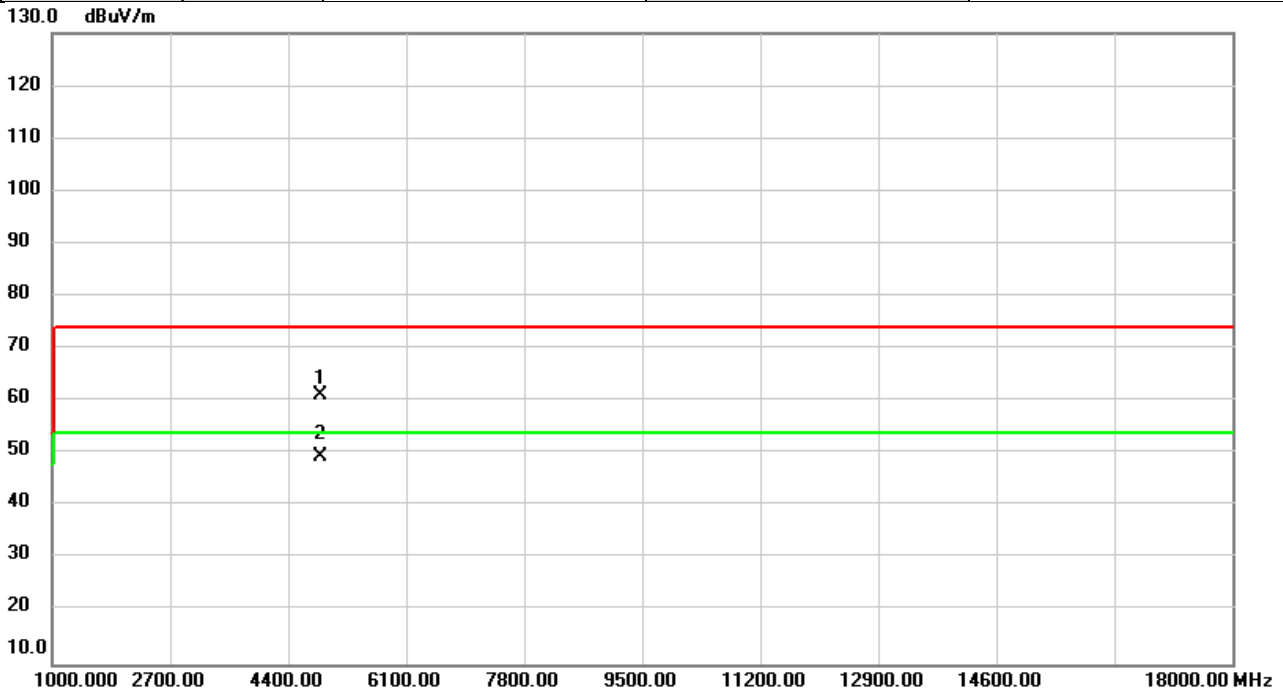


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	56.77	0.57	57.34	74.00	-16.66	peak	
2	*	4824.000	44.65	0.57	45.22	54.00	-8.78	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/12/11
Test Frequency	2437MHz	Polarization	Vertical
Temp	22°C	Hum.	55%

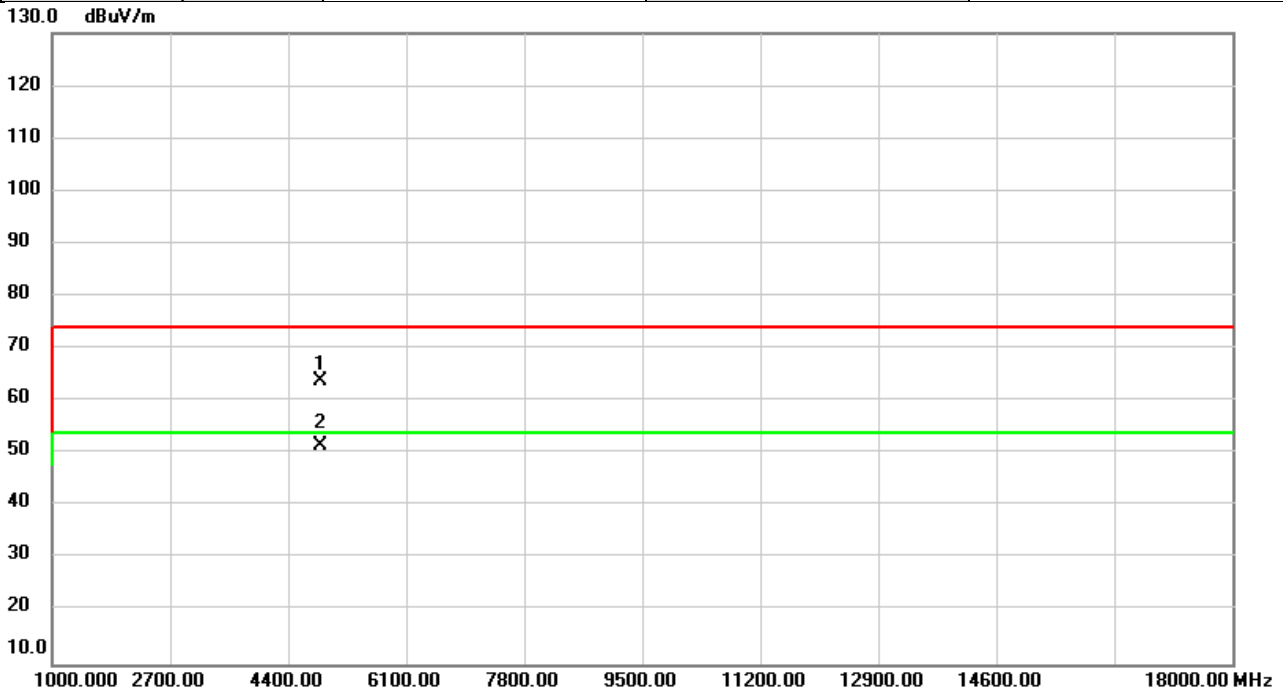


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	60.31	0.73	61.04	74.00	-12.96	peak	
2	*	4874.000	48.71	0.73	49.44	54.00	-4.56	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/12/11
Test Frequency	2437MHz	Polarization	Horizontal
Temp	22°C	Hum.	55%

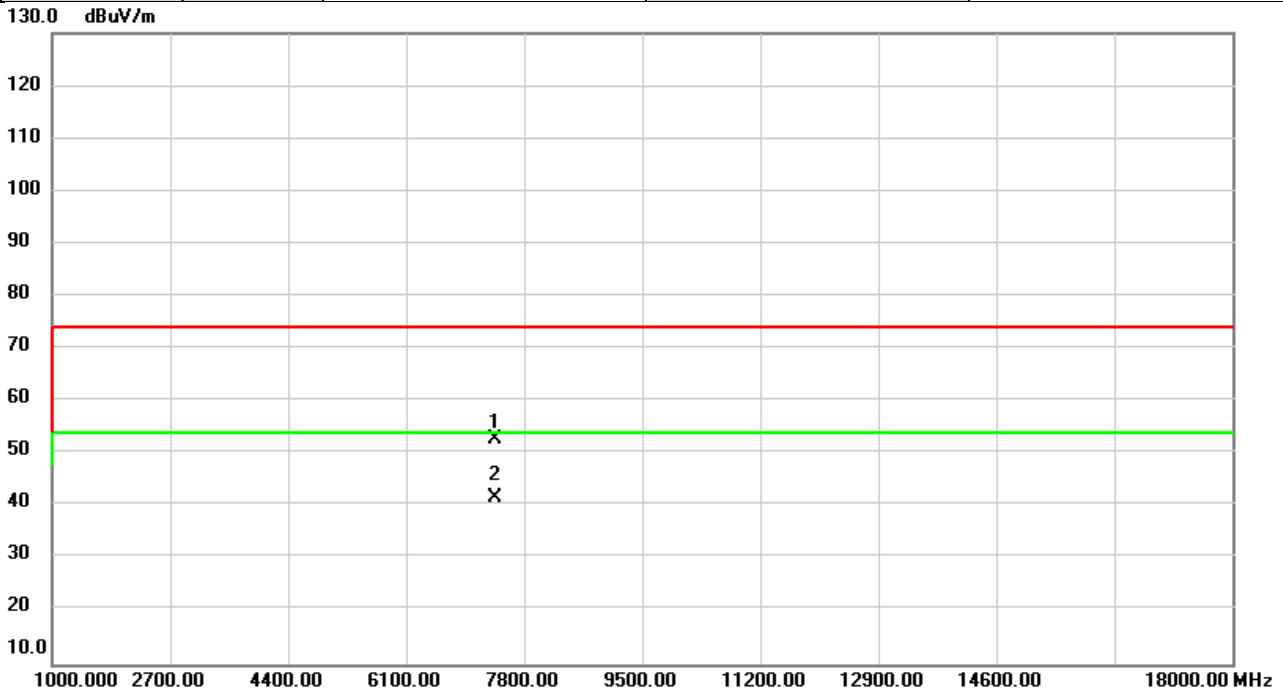


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	63.08	0.73	63.81	74.00	-10.19	peak	
2	*	4874.000	50.78	0.73	51.51	54.00	-2.49	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/12/11
Test Frequency	2462MHz	Polarization	Vertical
Temp	22°C	Hum.	55%

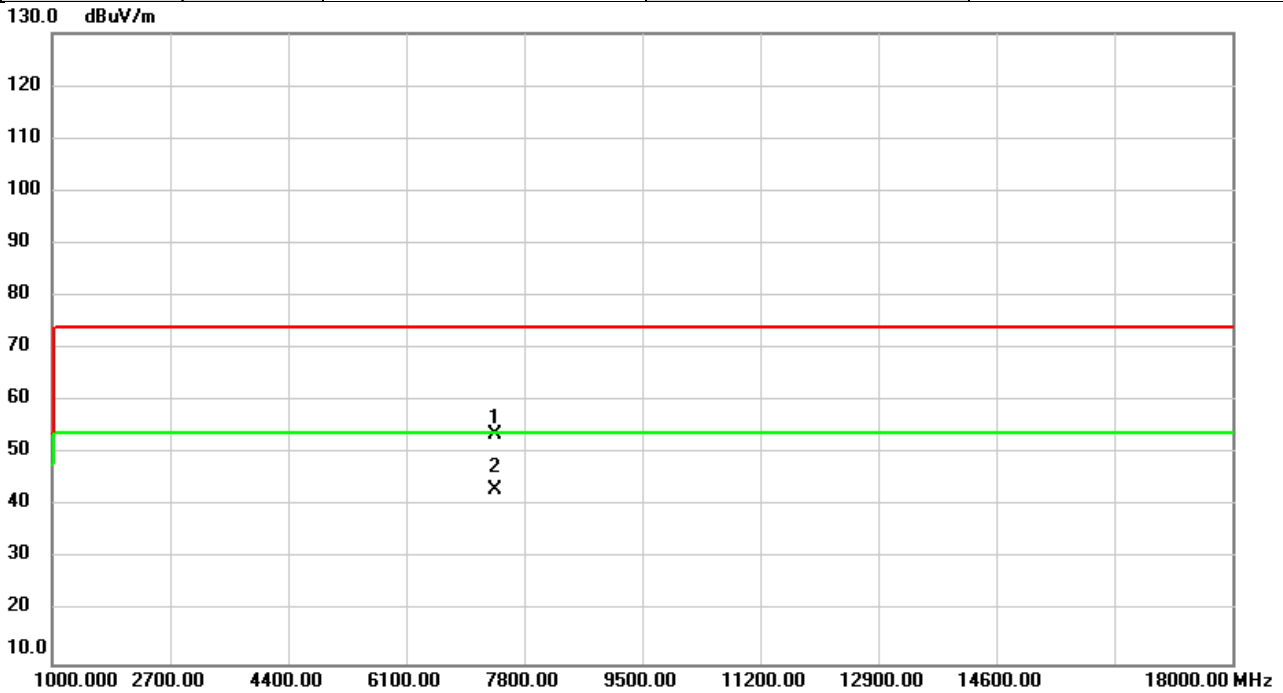


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7386.000	47.00	5.90	52.90	74.00	-21.10	peak	
2	*	7386.000	35.83	5.90	41.73	54.00	-12.27	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/12/11
Test Frequency	2462MHz	Polarization	Horizontal
Temp	22°C	Hum.	55%

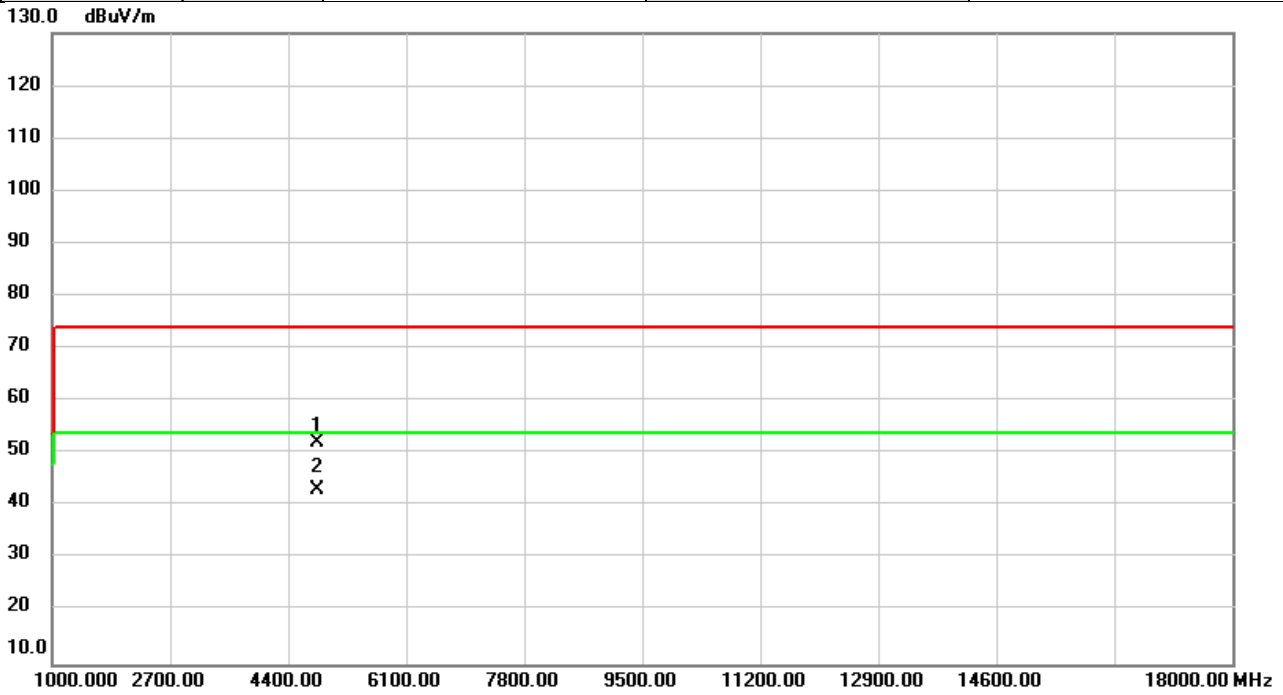


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7386.000	47.68	5.90	53.58	74.00	-20.42	peak	
2	*	7386.000	37.23	5.90	43.13	54.00	-10.87	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/12/12
Test Frequency	2412MHz	Polarization	Vertical
Temp	23°C	Hum.	57%

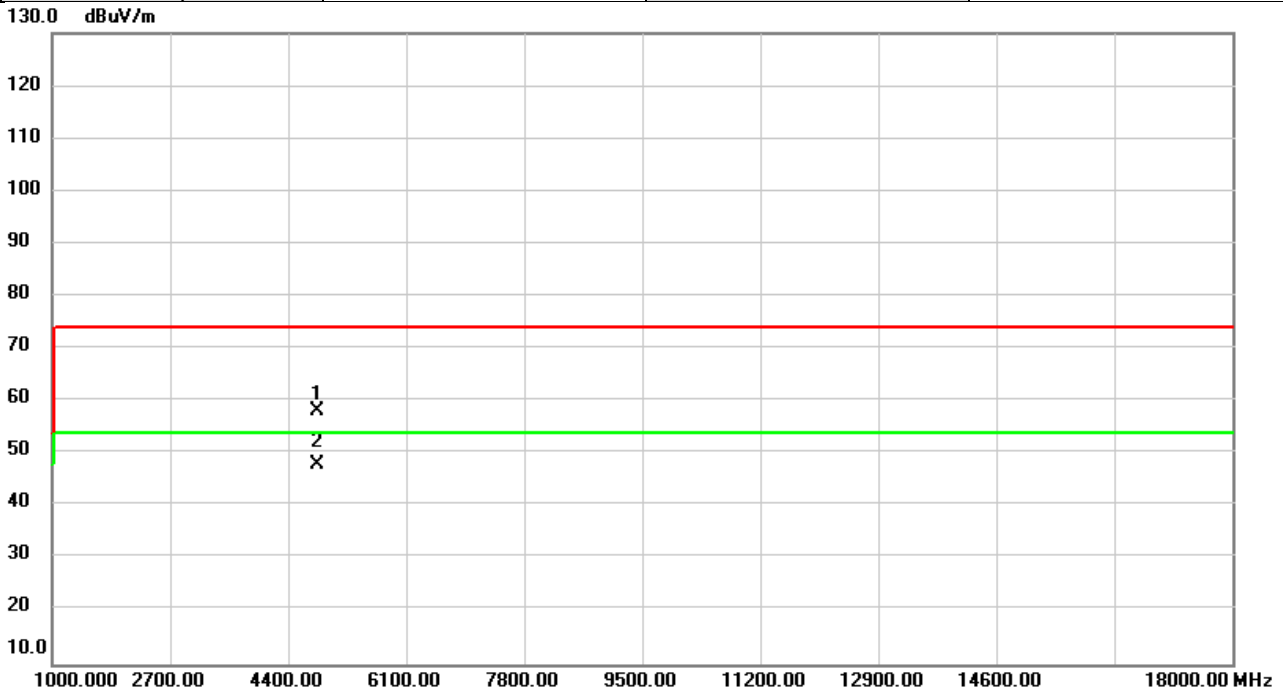


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	51.61	0.57	52.18	74.00	-21.82	peak	
2	*	4824.000	42.57	0.57	43.14	54.00	-10.86	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/12/12
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	57%

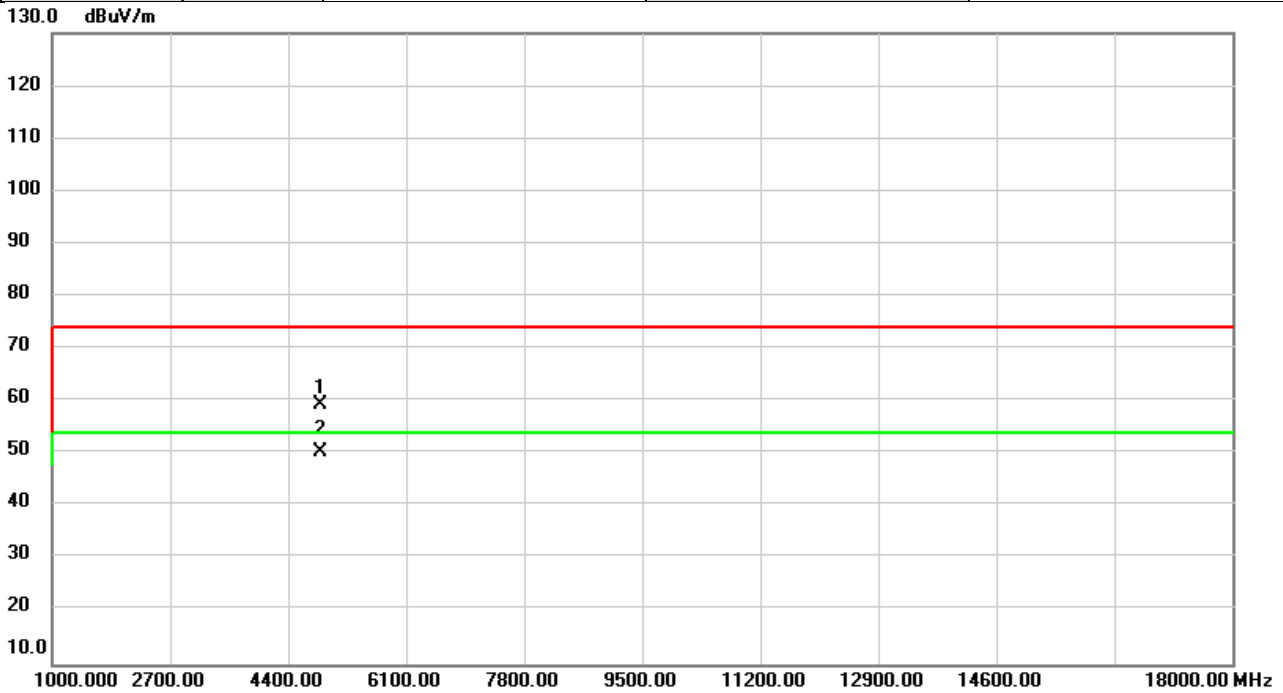


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	57.67	0.57	58.24	74.00	-15.76	peak	
2	*	4824.000	47.49	0.57	48.06	54.00	-5.94	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/12/11
Test Frequency	2437MHz	Polarization	Vertical
Temp	22°C	Hum.	55%

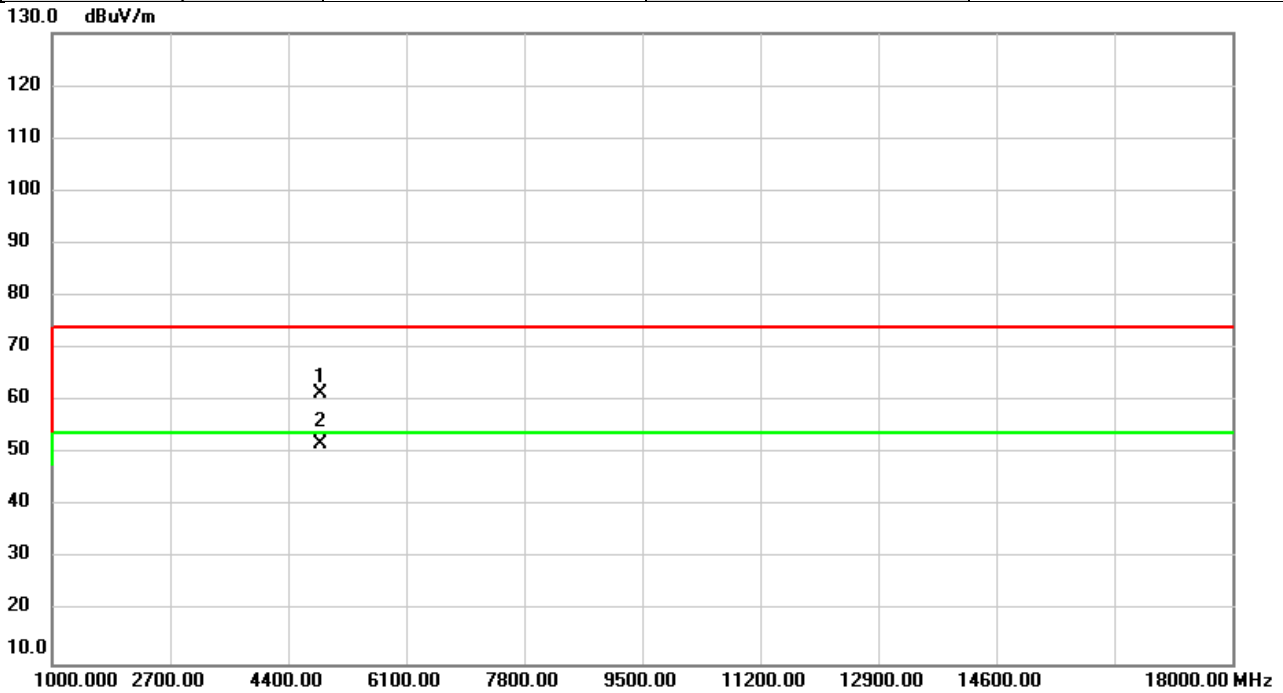


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	58.77	0.73	59.50	74.00	-14.50	peak	
2	*	4874.000	49.63	0.73	50.36	54.00	-3.64	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/12/11
Test Frequency	2437MHz	Polarization	Horizontal
Temp	22°C	Hum.	55%

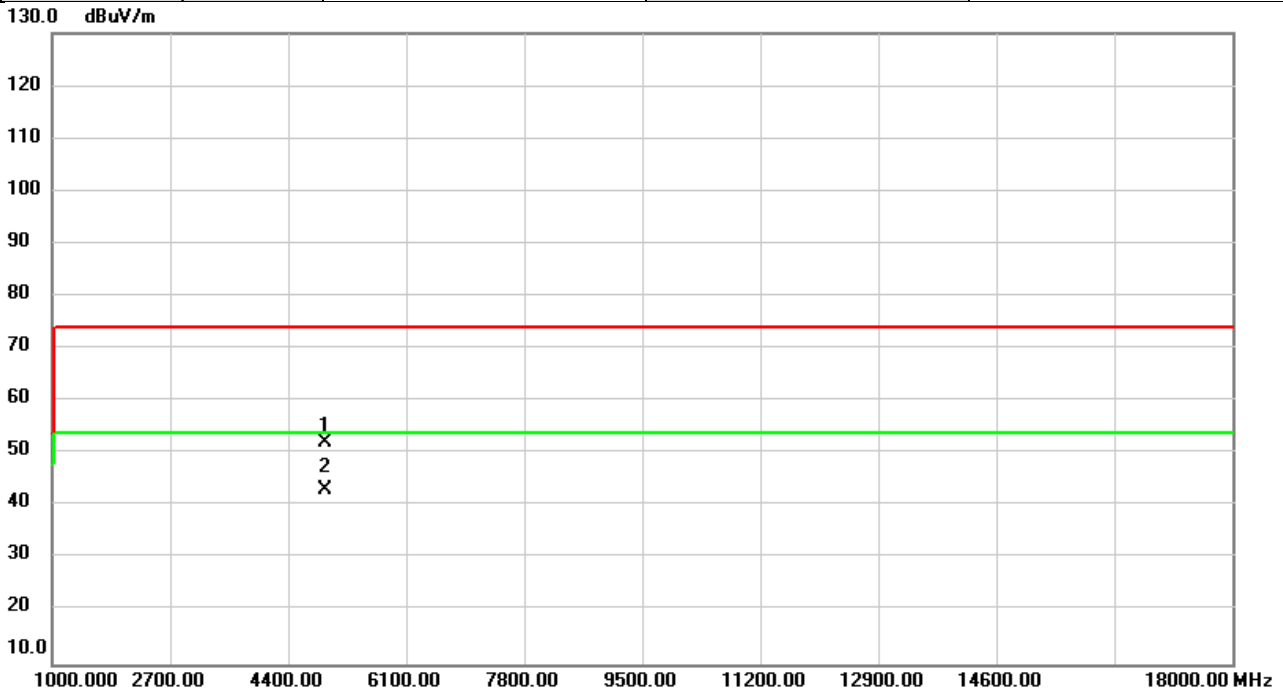


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	60.82	0.73	61.55	74.00	-12.45	peak	
2	*	4874.000	51.12	0.73	51.85	54.00	-2.15	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/12/11
Test Frequency	2462MHz	Polarization	Vertical
Temp	22°C	Hum.	55%

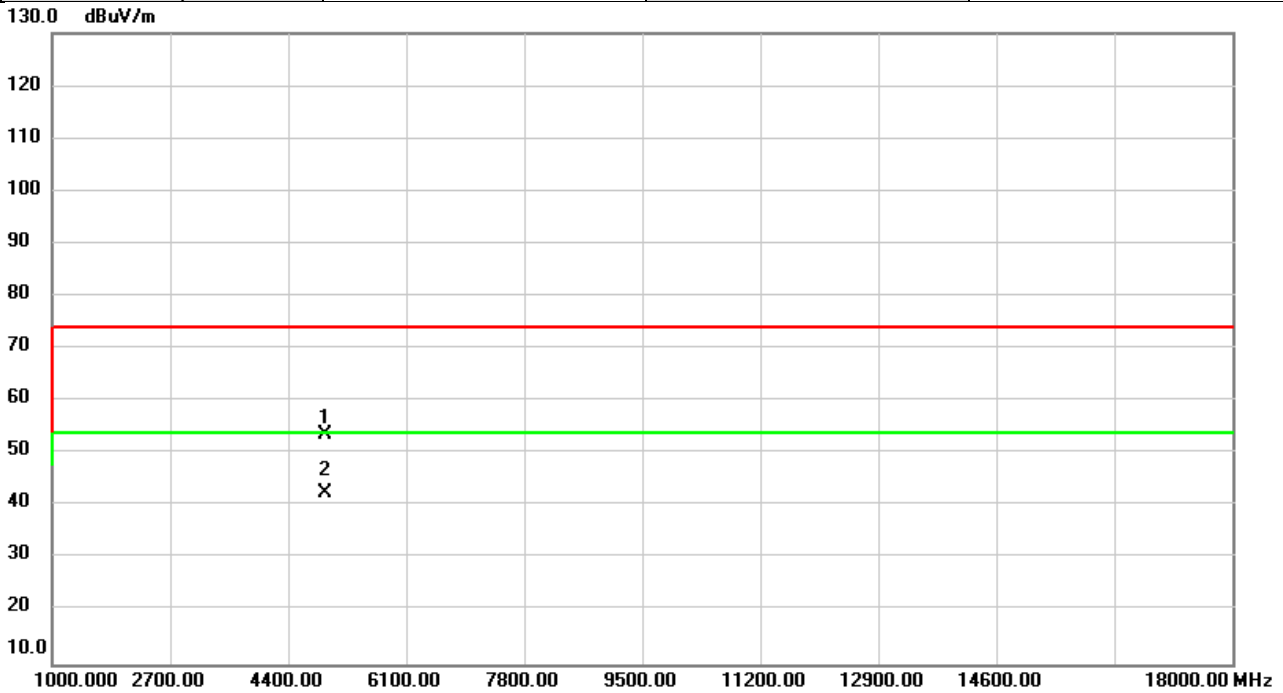


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	51.17	0.87	52.04	74.00	-21.96	peak	
2	*	4924.000	42.30	0.87	43.17	54.00	-10.83	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/12/11
Test Frequency	2462MHz	Polarization	Horizontal
Temp	22°C	Hum.	55%

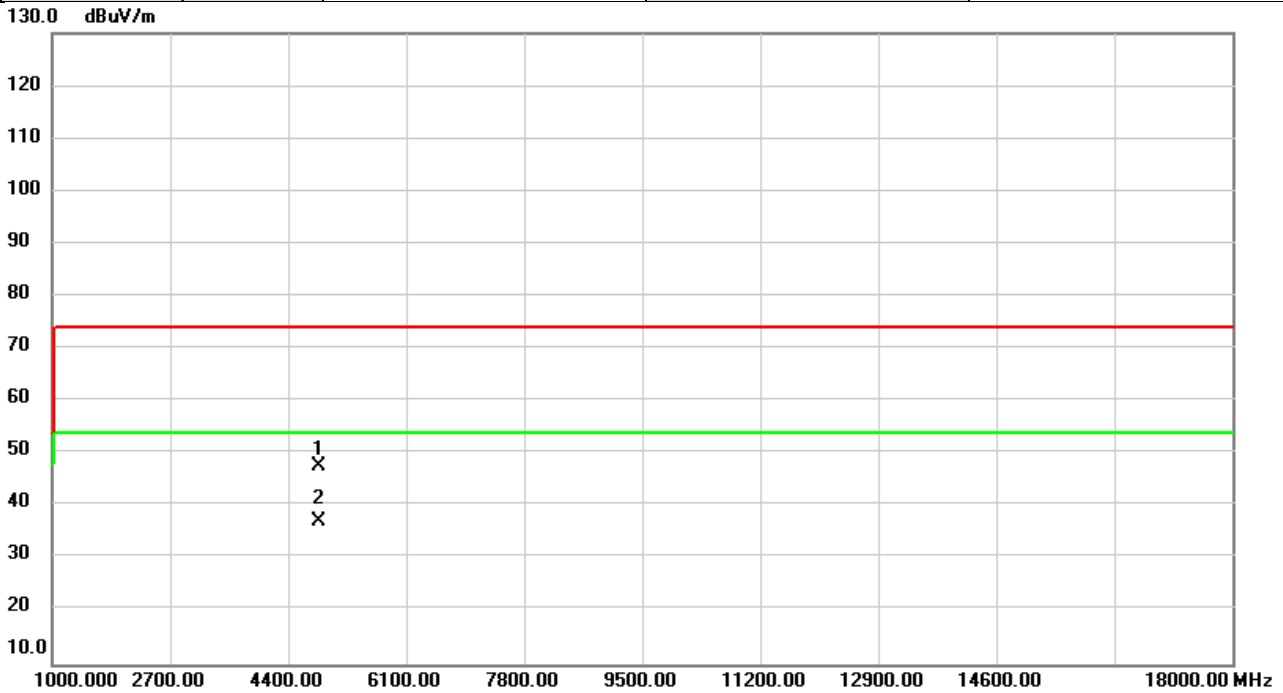


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	52.85	0.87	53.72	74.00	-20.28	peak	
2	*	4924.000	41.59	0.87	42.46	54.00	-11.54	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/12/11
Test Frequency	2422MHz	Polarization	Vertical
Temp	22°C	Hum.	55%

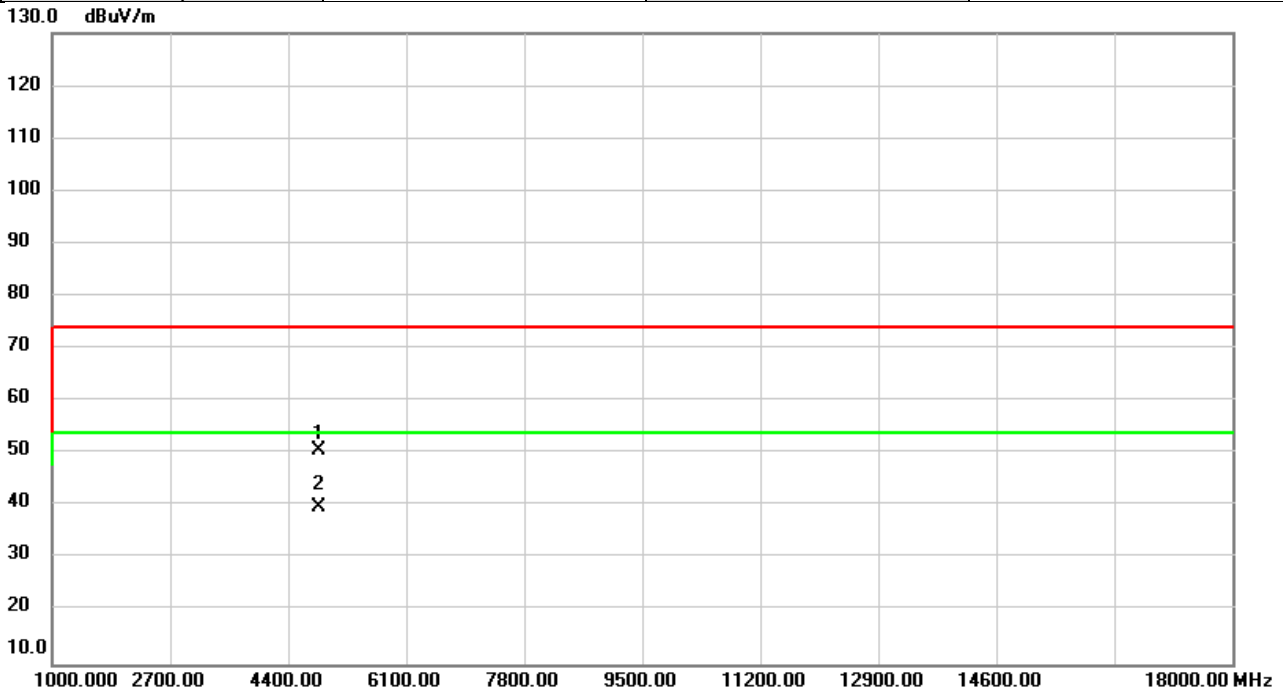


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4844.000	47.07	0.62	47.69	74.00	-26.31	peak	
2	*	4844.000	36.39	0.62	37.01	54.00	-16.99	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/12/11
Test Frequency	2422MHz	Polarization	Horizontal
Temp	22°C	Hum.	55%

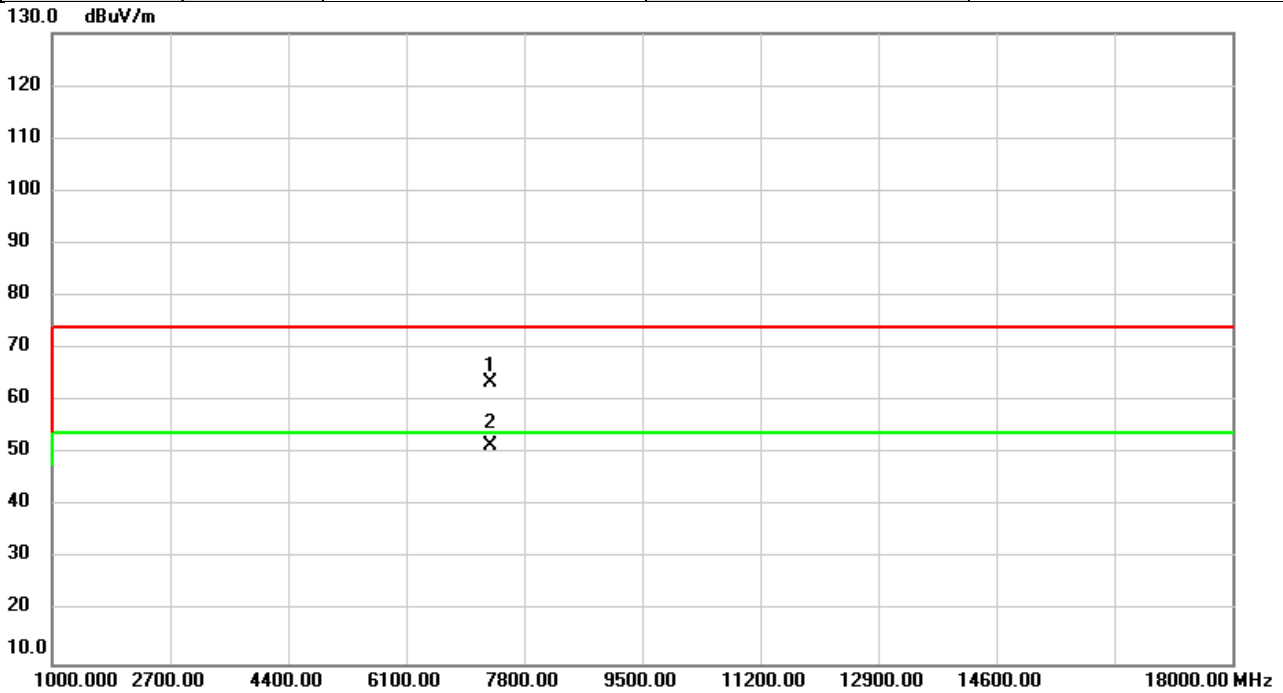


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4844.000	49.89	0.62	50.51	74.00	-23.49	peak	
2	*	4844.000	39.14	0.62	39.76	54.00	-14.24	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/12/11
Test Frequency	2437MHz	Polarization	Vertical
Temp	22°C	Hum.	55%

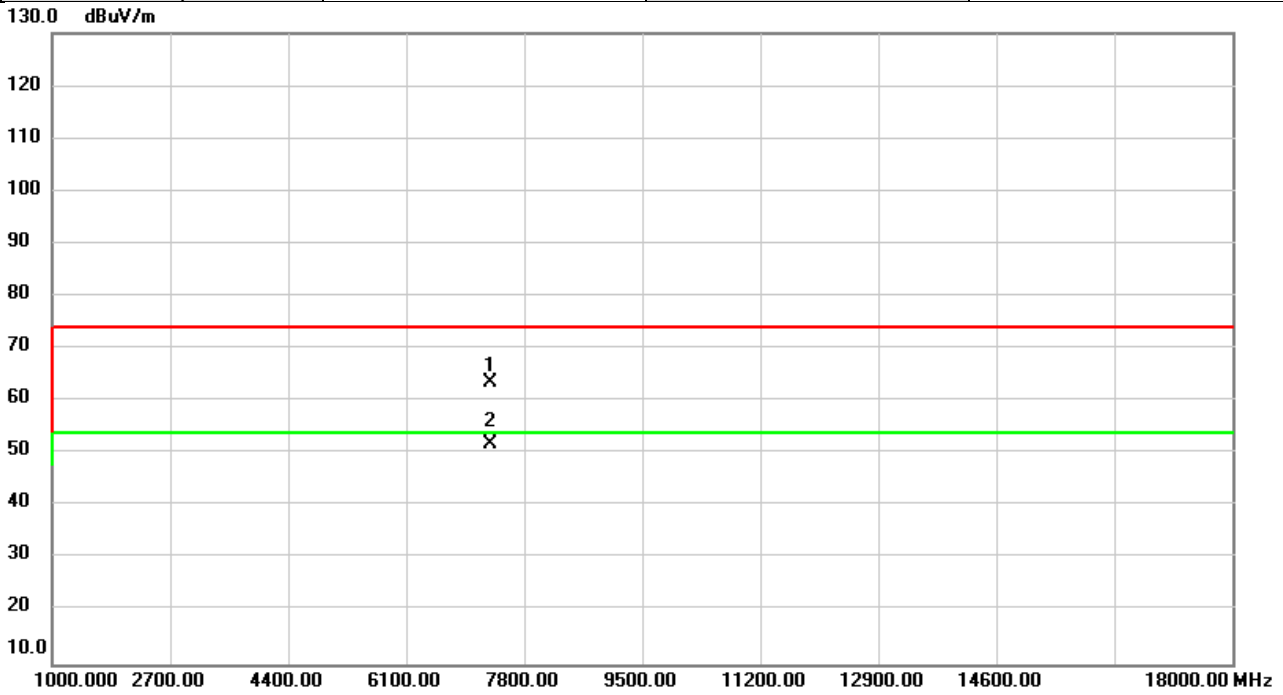


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7311.000	57.61	5.91	63.52	74.00	-10.48	peak	
2	*	7311.000	45.61	5.91	51.52	54.00	-2.48	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/12/11
Test Frequency	2437MHz	Polarization	Horizontal
Temp	22°C	Hum.	55%

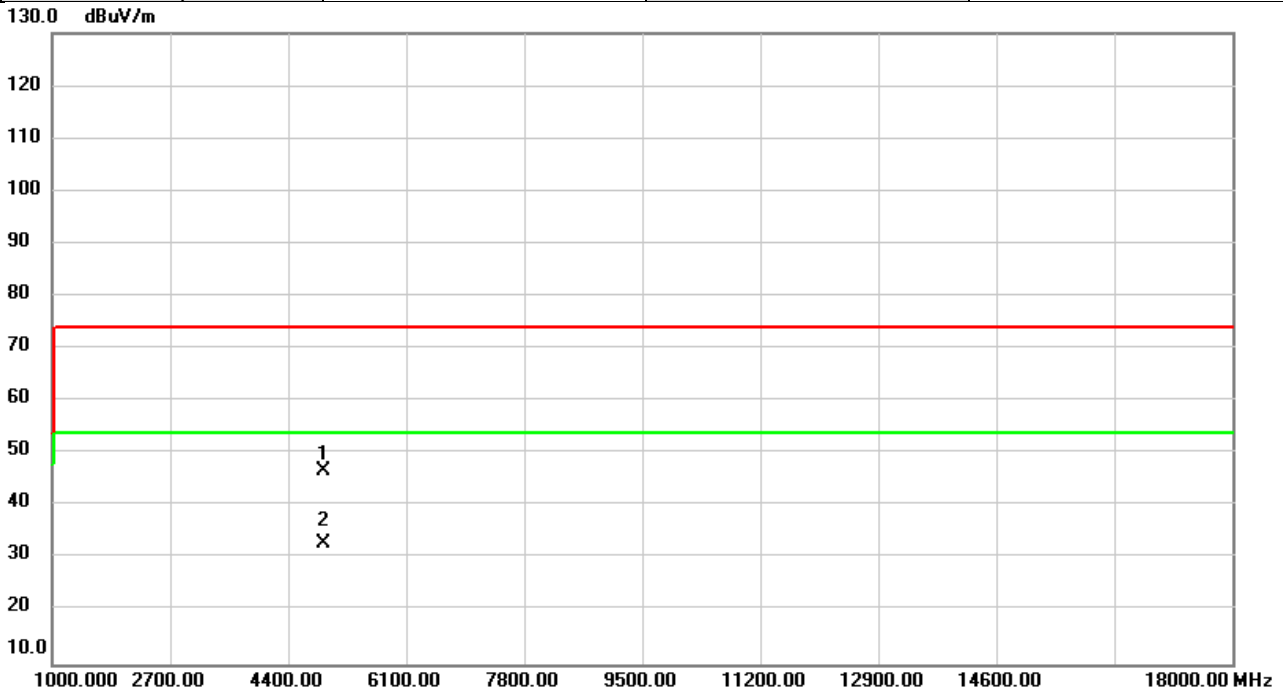


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7311.000	57.62	5.91	63.53	74.00	-10.47	peak	
2	*	7311.000	46.05	5.91	51.96	54.00	-2.04	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/12/11
Test Frequency	2452MHz	Polarization	Vertical
Temp	22°C	Hum.	55%

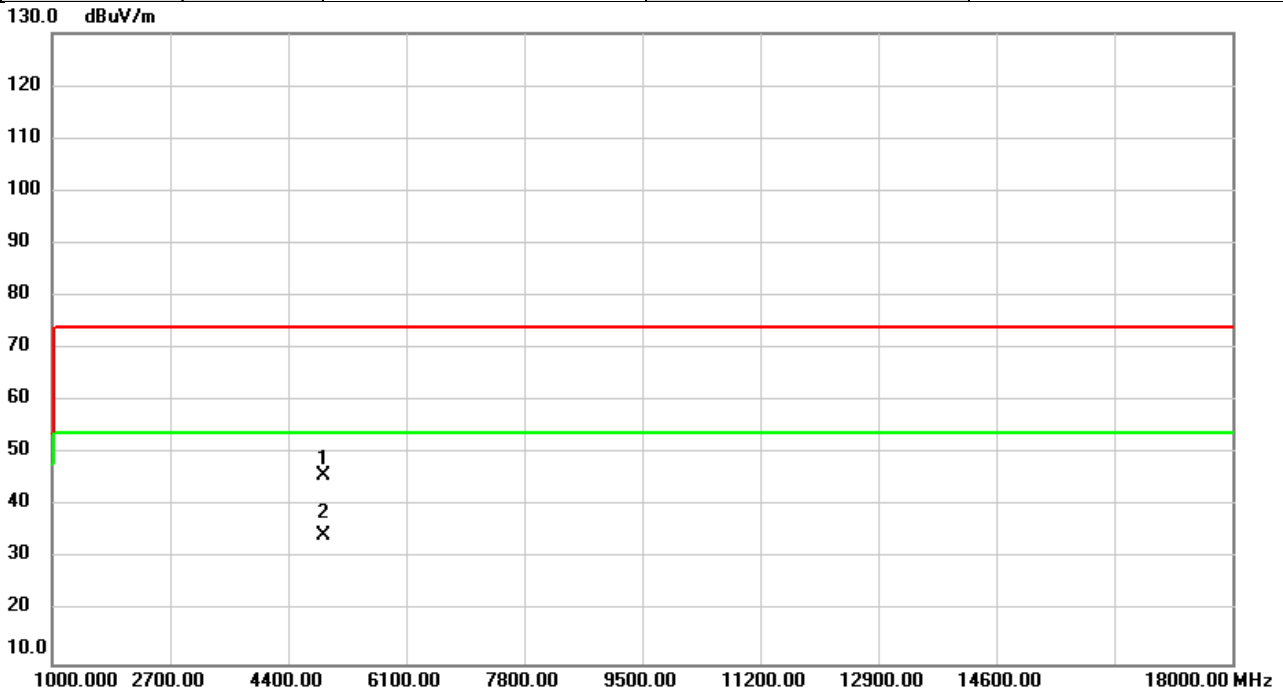


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4904.000	45.79	0.81	46.60	74.00	-27.40	peak	
2	*	4904.000	32.23	0.81	33.04	54.00	-20.96	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/12/11
Test Frequency	2452MHz	Polarization	Horizontal
Temp	22°C	Hum.	55%

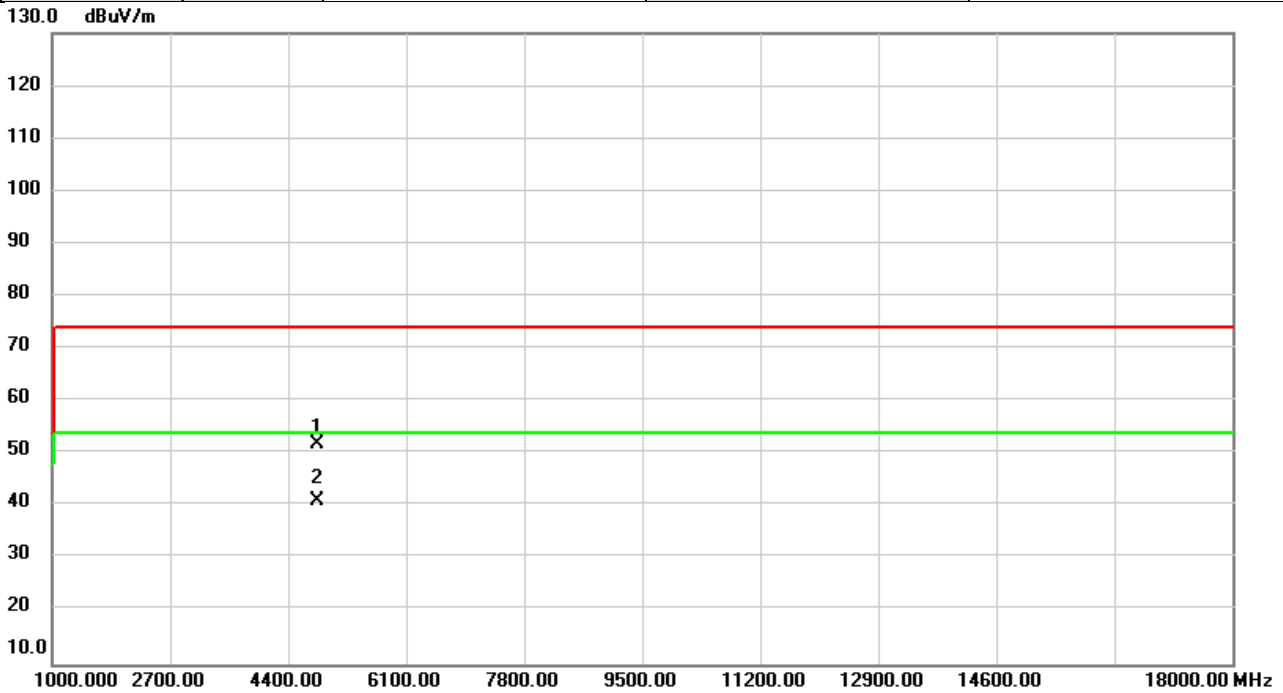


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4904.000	44.98	0.81	45.79	74.00	-28.21	peak	
2	*	4904.000	33.58	0.81	34.39	54.00	-19.61	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/12/11
Test Frequency	2412MHz	Polarization	Vertical
Temp	22°C	Hum.	55%

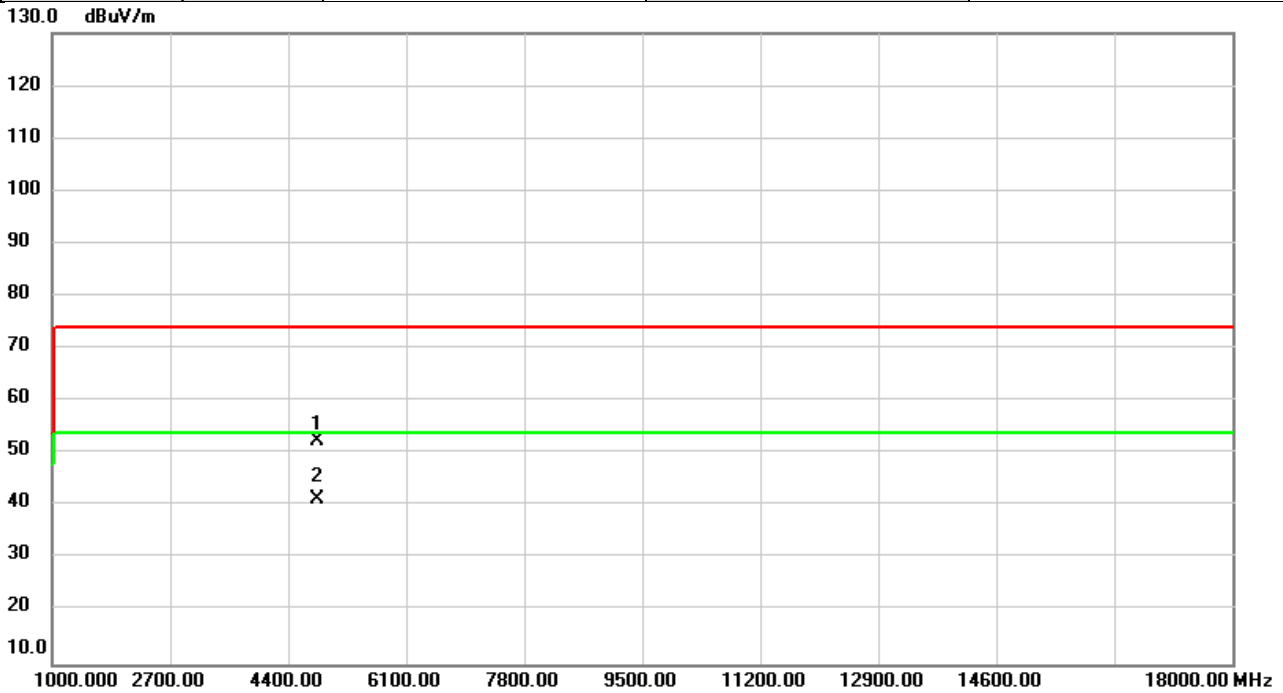


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	51.33	0.57	51.90	74.00	-22.10	peak	
2	*	4824.000	40.37	0.57	40.94	54.00	-13.06	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/12/11
Test Frequency	2412MHz	Polarization	Horizontal
Temp	22°C	Hum.	55%

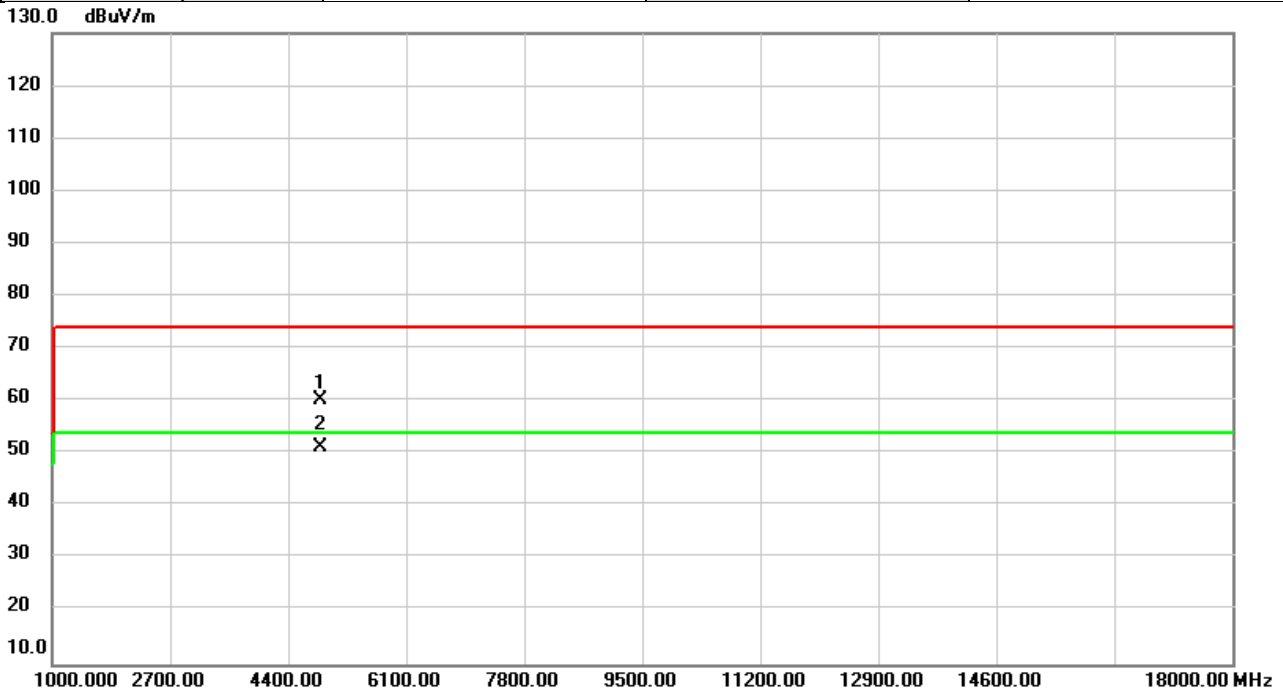


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	52.01	0.57	52.58	74.00	-21.42	peak	
2	*	4824.000	40.93	0.57	41.50	54.00	-12.50	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/12/11
Test Frequency	2437MHz	Polarization	Vertical
Temp	22°C	Hum.	55%

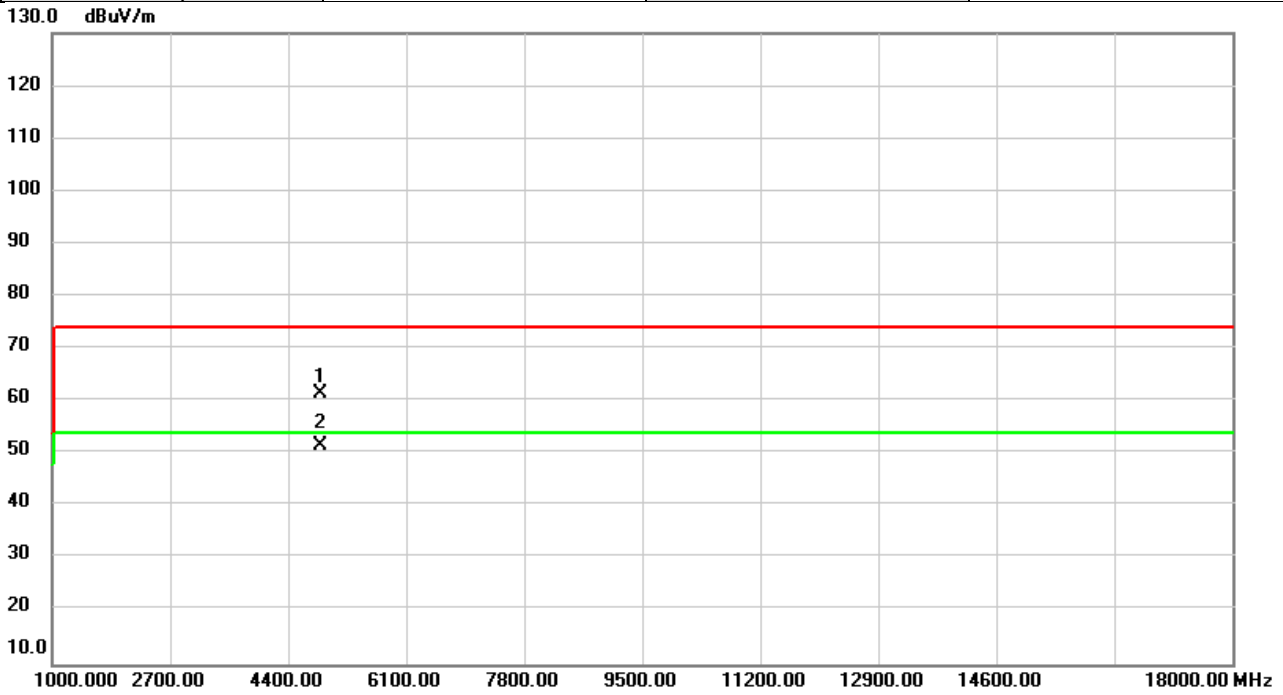


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	59.62	0.73	60.35	74.00	-13.65	peak	
2	*	4874.000	50.56	0.73	51.29	54.00	-2.71	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/12/11
Test Frequency	2437MHz	Polarization	Horizontal
Temp	22°C	Hum.	55%

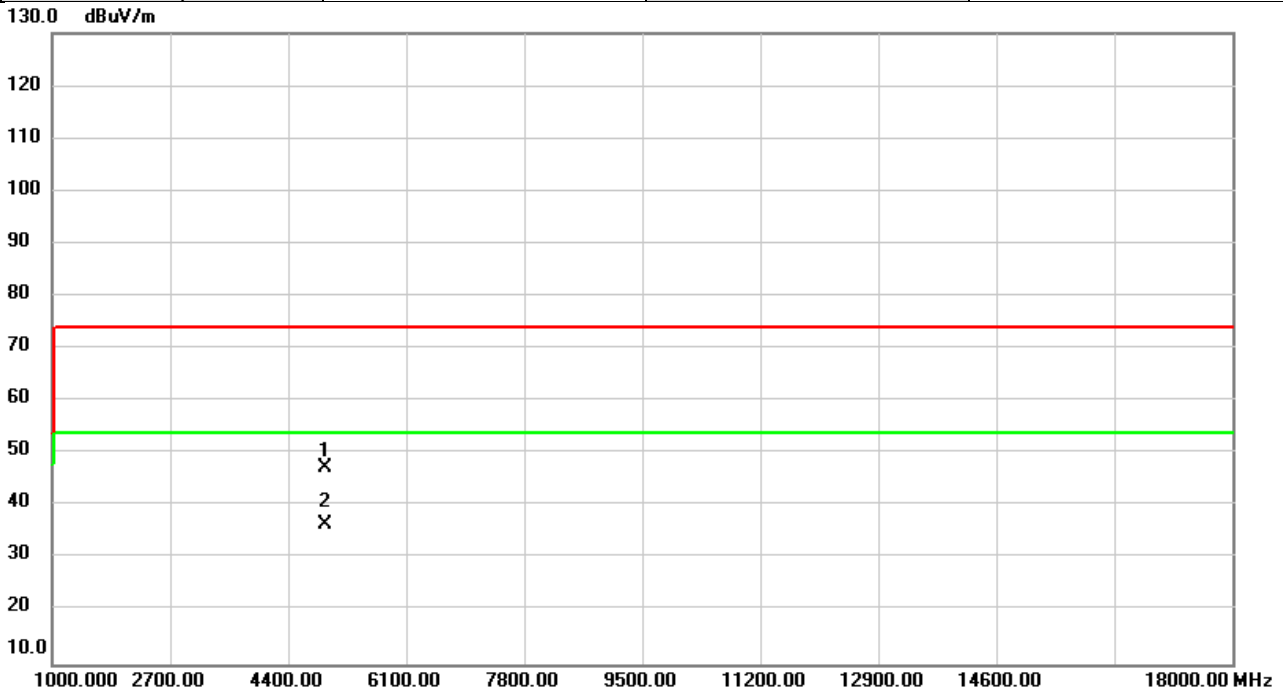


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	60.64	0.73	61.37	74.00	-12.63	peak	
2	*	4874.000	50.77	0.73	51.50	54.00	-2.50	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/12/11
Test Frequency	2462MHz	Polarization	Vertical
Temp	22°C	Hum.	55%

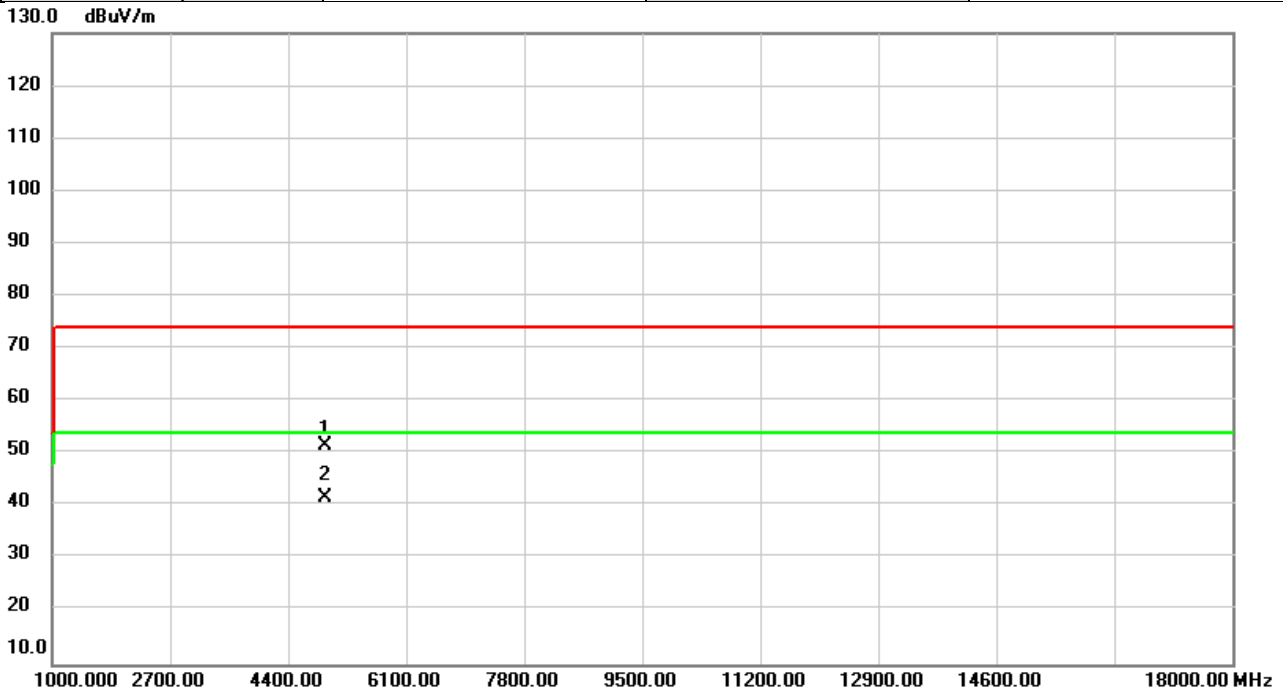


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	46.43	0.87	47.30	74.00	-26.70	peak	
2	*	4924.000	35.79	0.87	36.66	54.00	-17.34	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/12/11
Test Frequency	2462MHz	Polarization	Horizontal
Temp	22°C	Hum.	55%

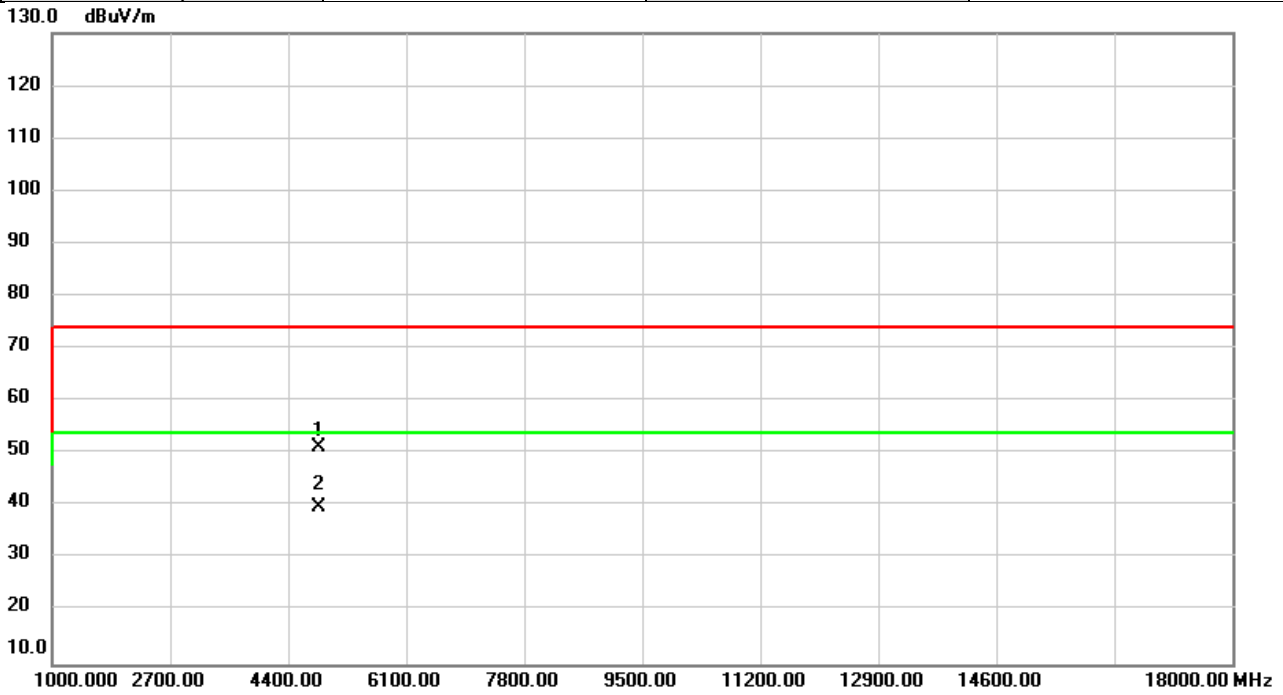


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	50.81	0.87	51.68	74.00	-22.32	peak	
2	*	4924.000	40.71	0.87	41.58	54.00	-12.42	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/12/11
Test Frequency	2422MHz	Polarization	Vertical
Temp	22°C	Hum.	55%

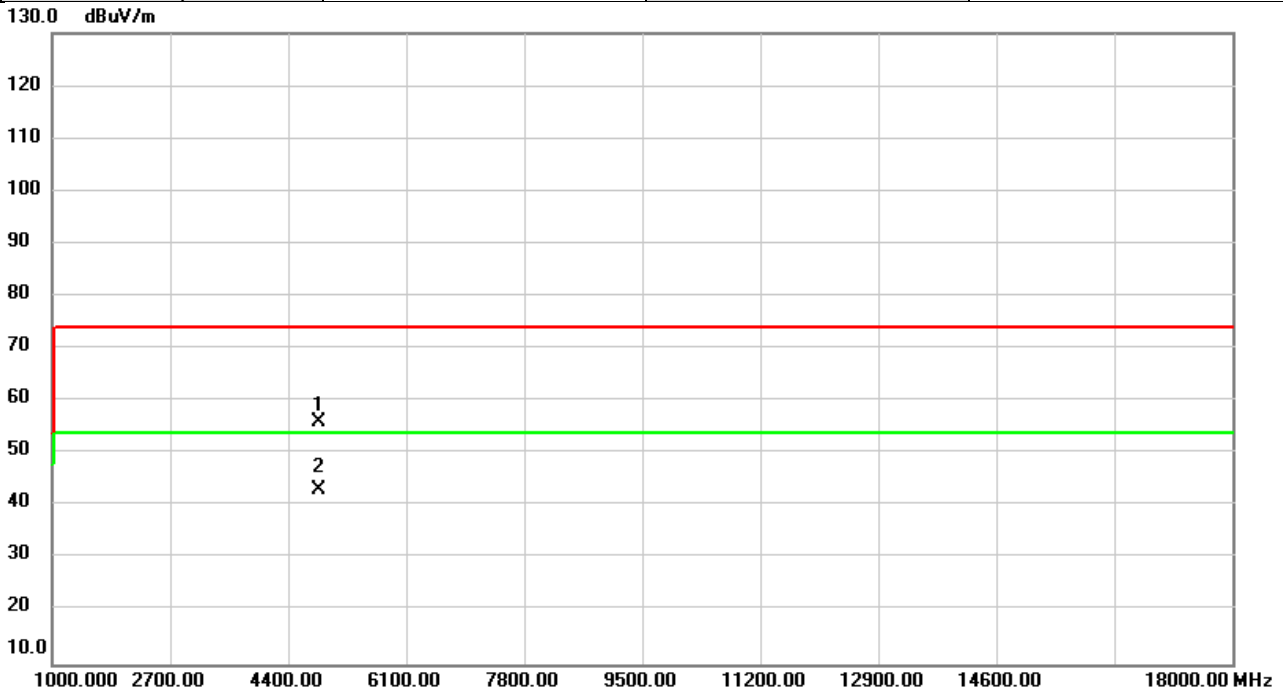


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4844.000	50.75	0.62	51.37	74.00	-22.63	peak	
2	*	4844.000	39.37	0.62	39.99	54.00	-14.01	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/12/11
Test Frequency	2422MHz	Polarization	Horizontal
Temp	22°C	Hum.	55%

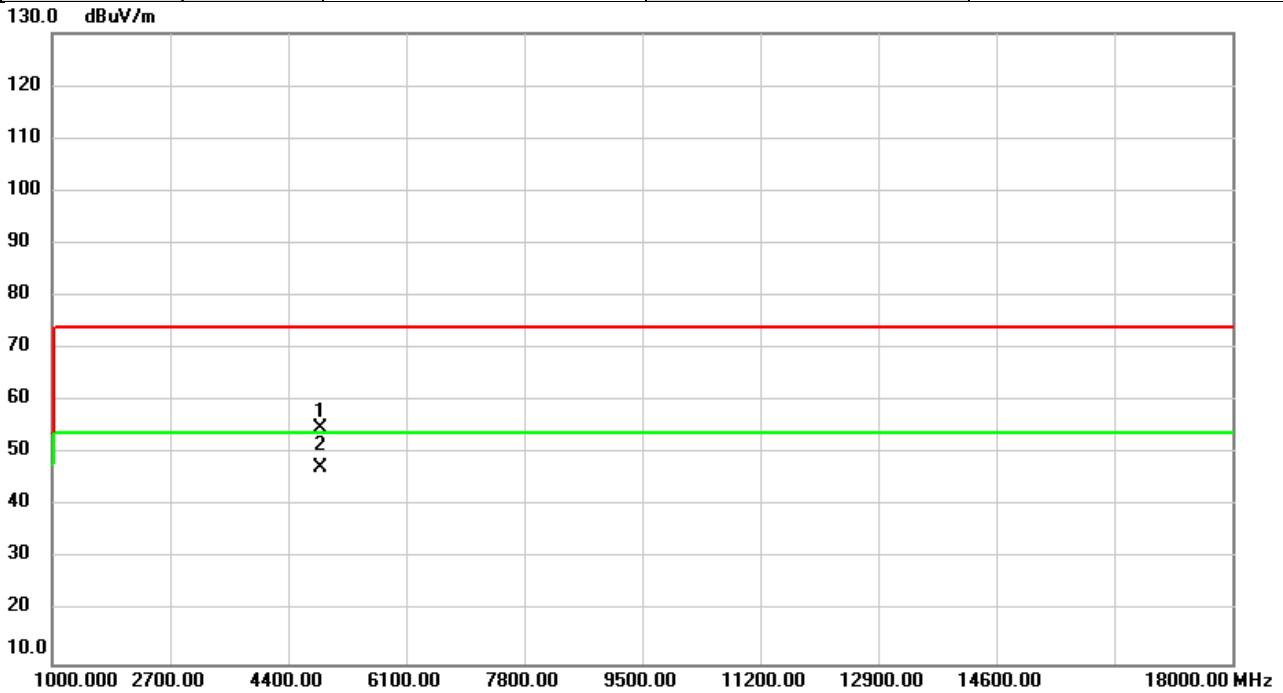


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4844.000	55.37	0.62	55.99	74.00	-18.01	peak	
2	*	4844.000	42.67	0.62	43.29	54.00	-10.71	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/12/11
Test Frequency	2437MHz	Polarization	Vertical
Temp	22°C	Hum.	55%

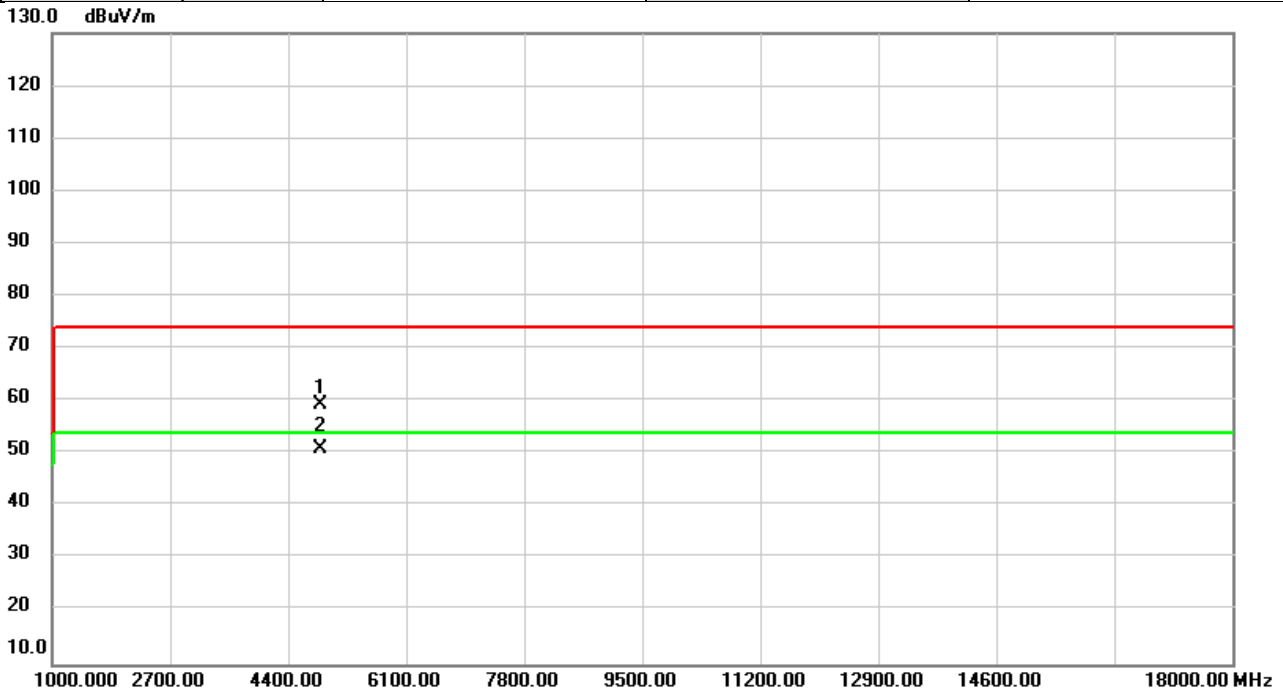


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	54.04	0.73	54.77	74.00	-19.23	peak	
2	*	4874.000	46.62	0.73	47.35	54.00	-6.65	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/12/11
Test Frequency	2437MHz	Polarization	Horizontal
Temp	22°C	Hum.	55%

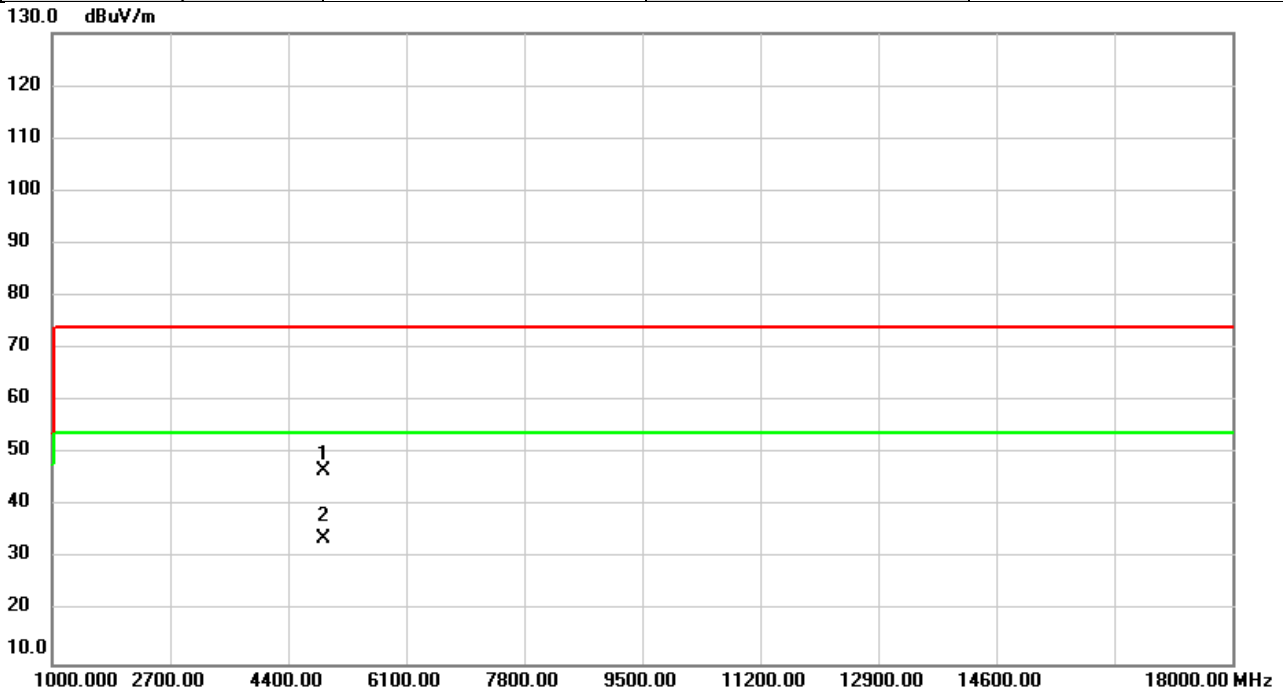


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	58.66	0.73	59.39	74.00	-14.61	peak	
2	*	4874.000	50.32	0.73	51.05	54.00	-2.95	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/12/11
Test Frequency	2452MHz	Polarization	Vertical
Temp	22°C	Hum.	55%

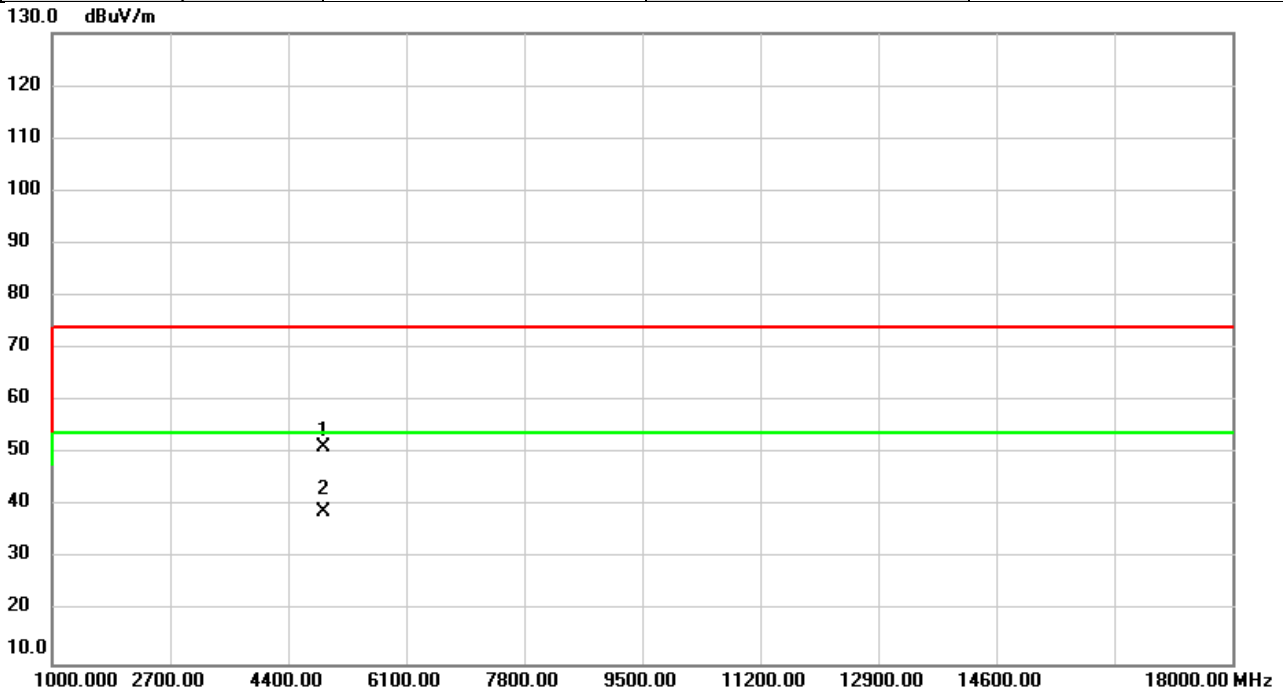


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4904.000	46.08	0.81	46.89	74.00	-27.11	peak	
2	*	4904.000	32.89	0.81	33.70	54.00	-20.30	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/12/11
Test Frequency	2452MHz	Polarization	Horizontal
Temp	22°C	Hum.	55%

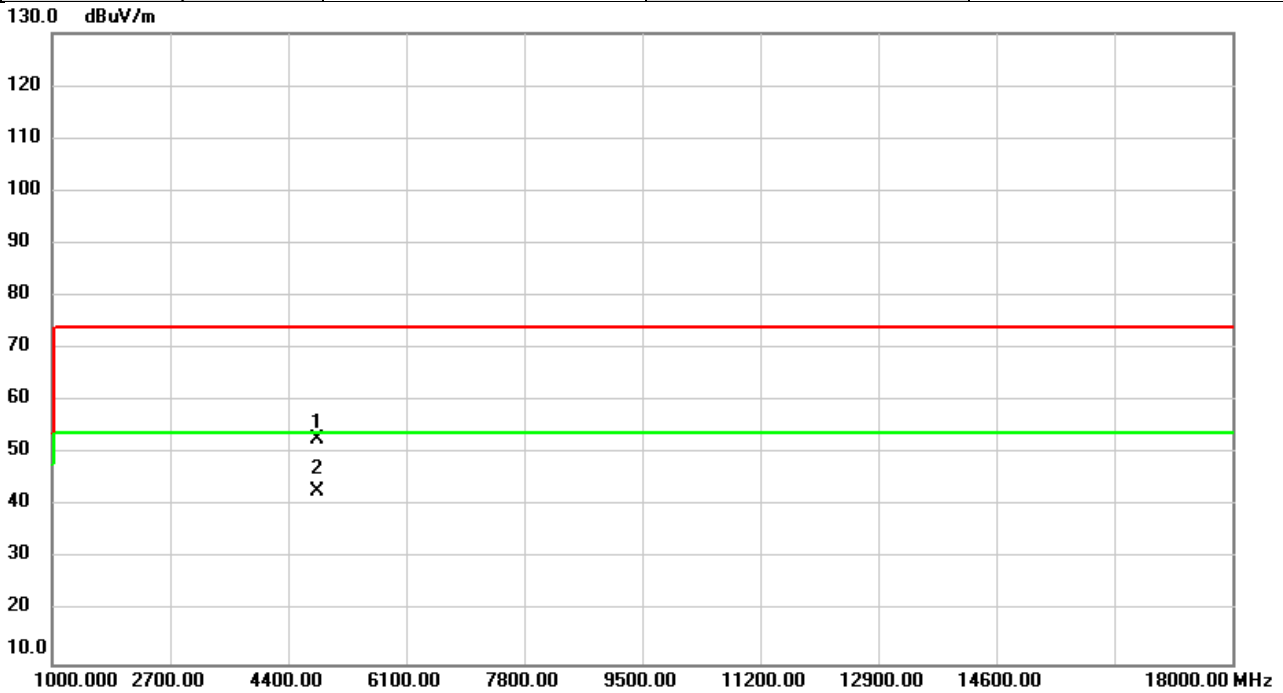


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4904.000	50.39	0.81	51.20	74.00	-22.80	peak	
2	*	4904.000	38.09	0.81	38.90	54.00	-15.10	AVG	

REMARKS:

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

Test Mode	IEEE 802.11be (EHT20)	Test Date	2023/12/11
Test Frequency	2412MHz	Polarization	Vertical
Temp	22°C	Hum.	55%

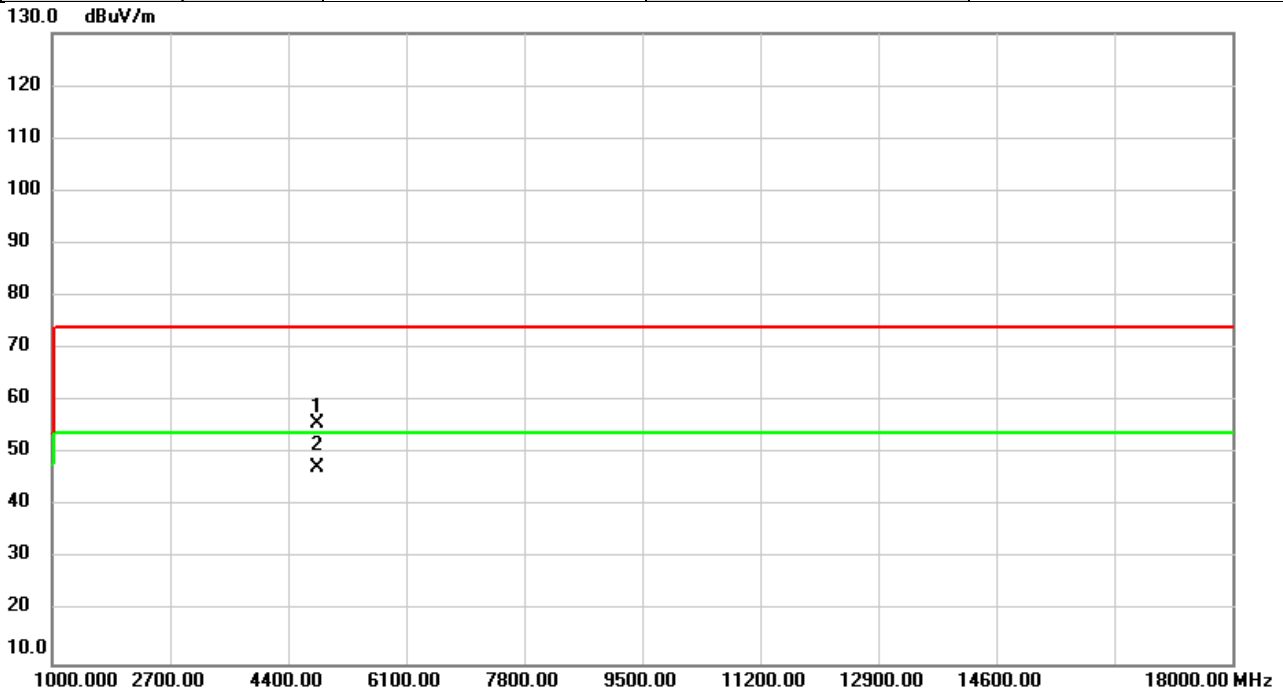


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	52.22	0.57	52.79	74.00	-21.21	peak	
2	*	4824.000	42.34	0.57	42.91	54.00	-11.09	AVG	

REMARKS:

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

Test Mode	IEEE 802.11be (EHT20)	Test Date	2023/12/11
Test Frequency	2412MHz	Polarization	Horizontal
Temp	22°C	Hum.	55%

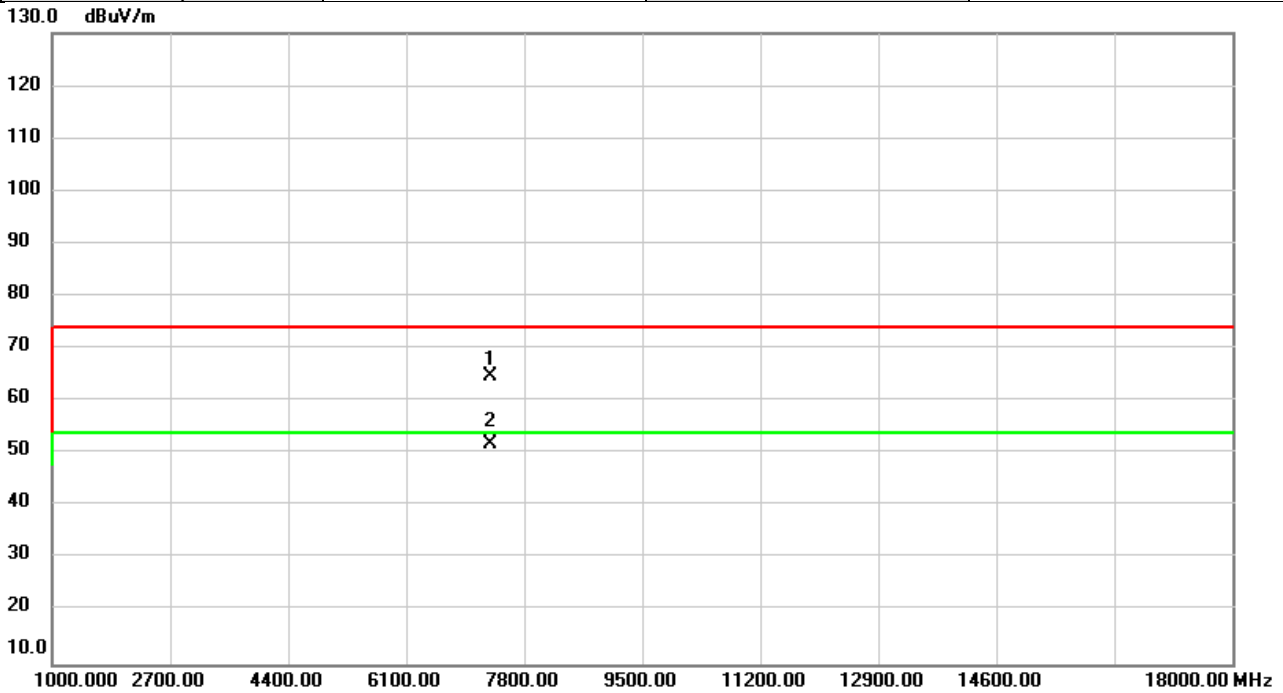


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	55.31	0.57	55.88	74.00	-18.12	peak	
2	*	4824.000	46.92	0.57	47.49	54.00	-6.51	AVG	

REMARKS:

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

Test Mode	IEEE 802.11be (EHT20)	Test Date	2023/12/12
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	58%

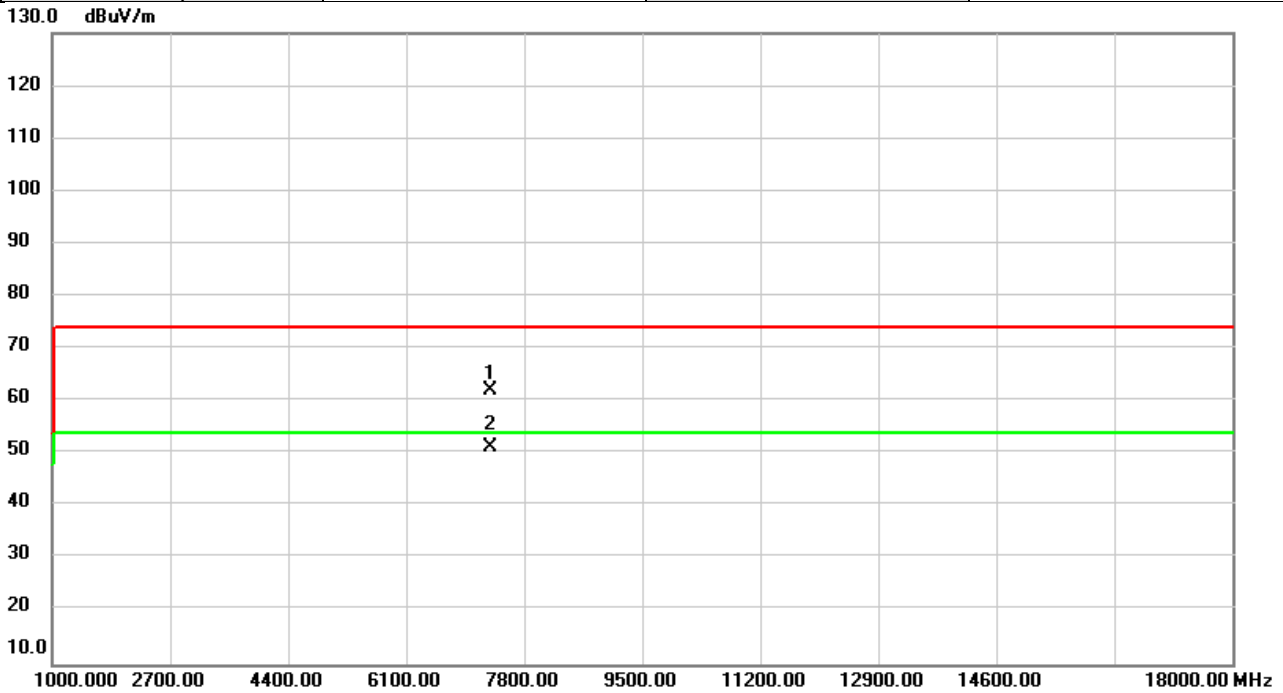


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7311.000	58.95	5.91	64.86	74.00	-9.14	peak	
2	*	7311.000	45.92	5.91	51.83	54.00	-2.17	AVG	

REMARKS:

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

Test Mode	IEEE 802.11be (EHT20)	Test Date	2023/12/12
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

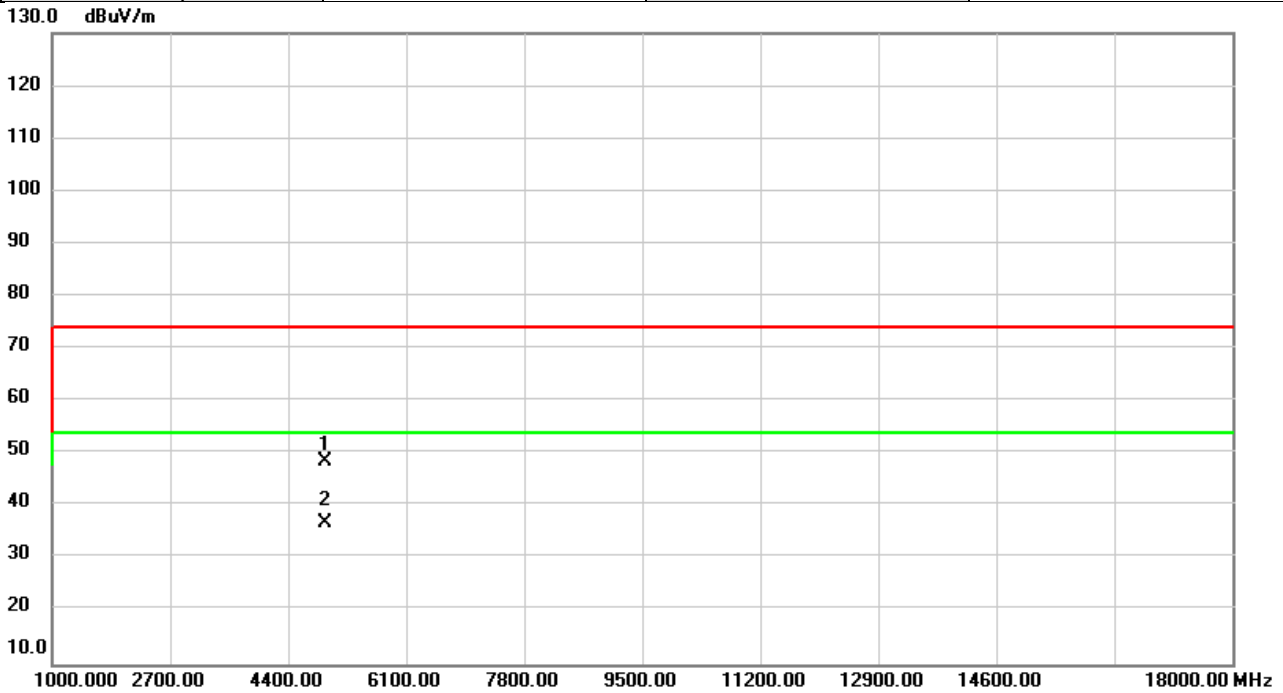


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7311.000	56.28	5.91	62.19	74.00	-11.81	peak	
2	*	7311.000	45.37	5.91	51.28	54.00	-2.72	AVG	

REMARKS:

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

Test Mode	IEEE 802.11be (EHT20)	Test Date	2023/12/12
Test Frequency	2462MHz	Polarization	Vertical
Temp	23°C	Hum.	58%

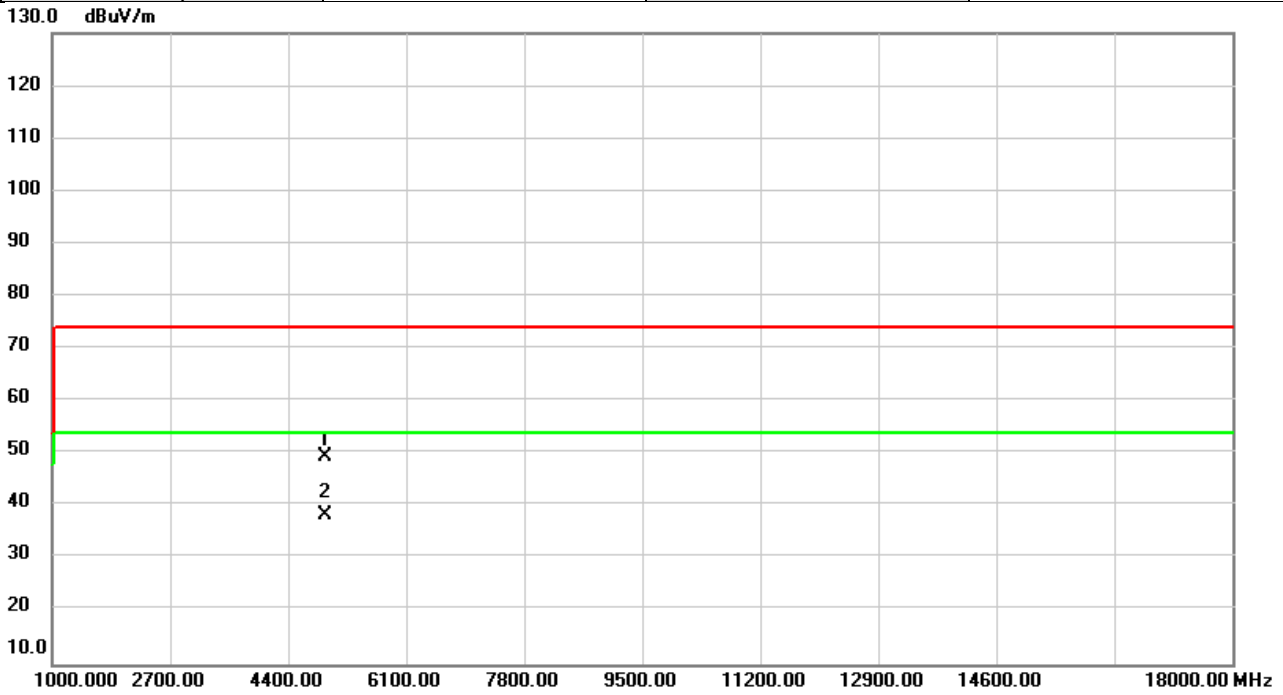


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	47.54	0.87	48.41	74.00	-25.59	peak	
2	*	4924.000	35.92	0.87	36.79	54.00	-17.21	AVG	

REMARKS:

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

Test Mode	IEEE 802.11be (EHT20)	Test Date	2023/12/12
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

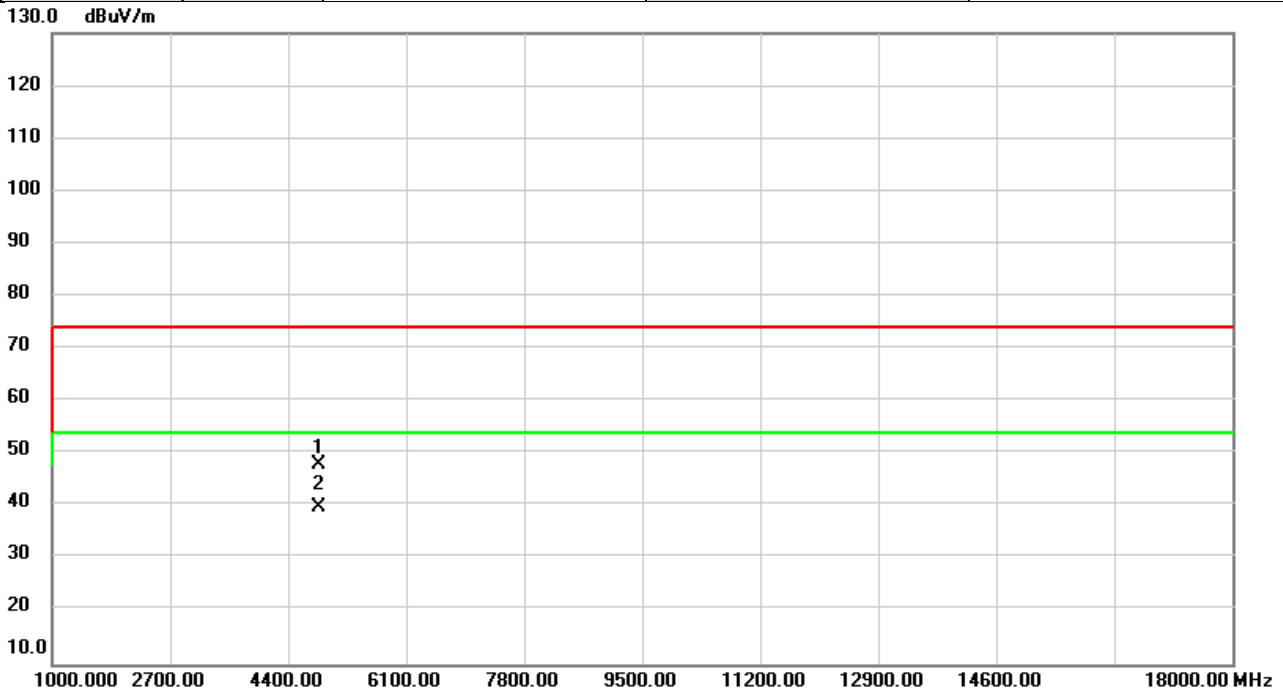


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	48.54	0.87	49.41	74.00	-24.59	peak	
2	*	4924.000	37.33	0.87	38.20	54.00	-15.80	AVG	

REMARKS:

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

Test Mode	IEEE 802.11be (EHT40)	Test Date	2023/12/12
Test Frequency	2422MHz	Polarization	Vertical
Temp	23°C	Hum.	58%

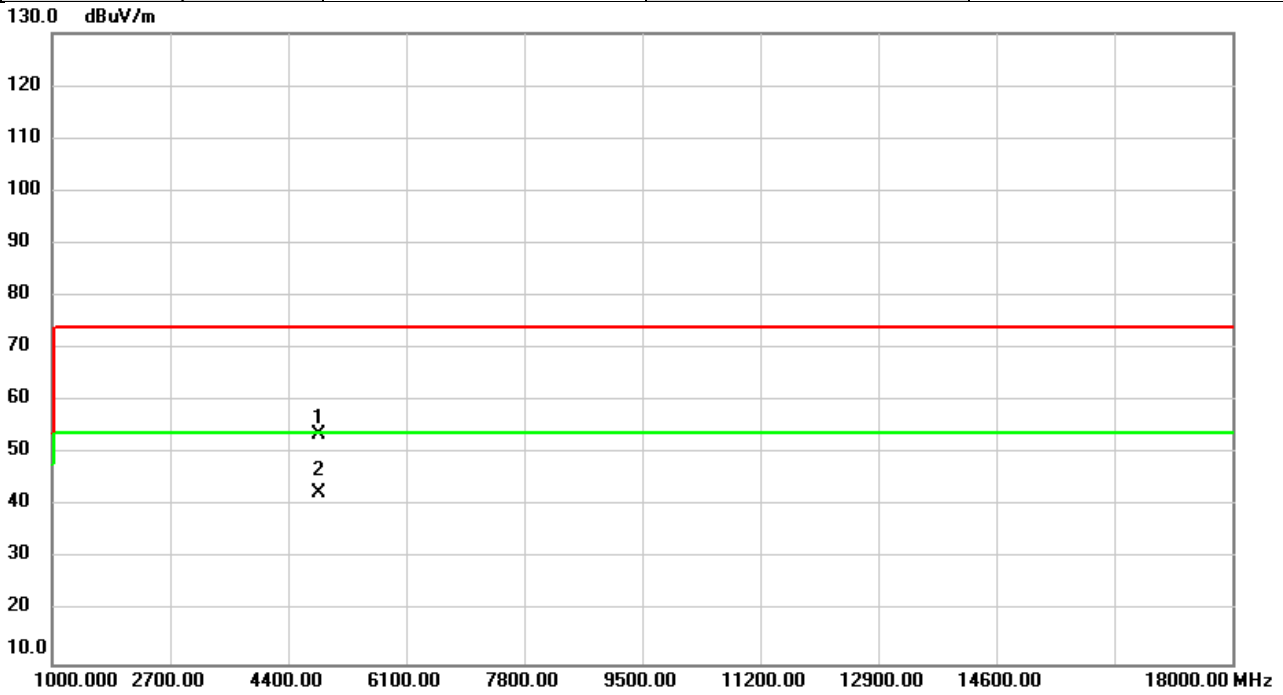


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4844.000	47.25	0.62	47.87	74.00	-26.13	peak	
2	*	4844.000	39.24	0.62	39.86	54.00	-14.14	AVG	

REMARKS:

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

Test Mode	IEEE 802.11be (EHT40)	Test Date	2023/12/12
Test Frequency	2422MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

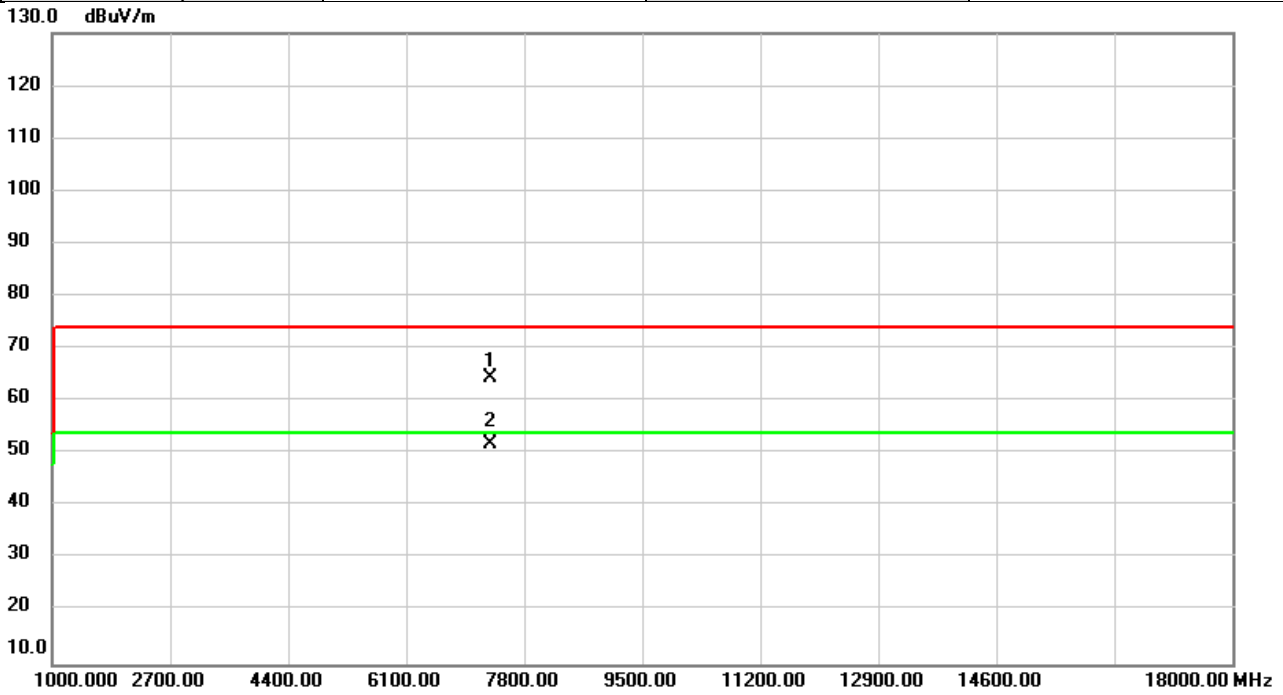


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4844.000	52.94	0.62	53.56	74.00	-20.44	peak	
2	*	4844.000	41.82	0.62	42.44	54.00	-11.56	AVG	

REMARKS:

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

Test Mode	IEEE 802.11be (EHT40)	Test Date	2023/12/12
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	58%

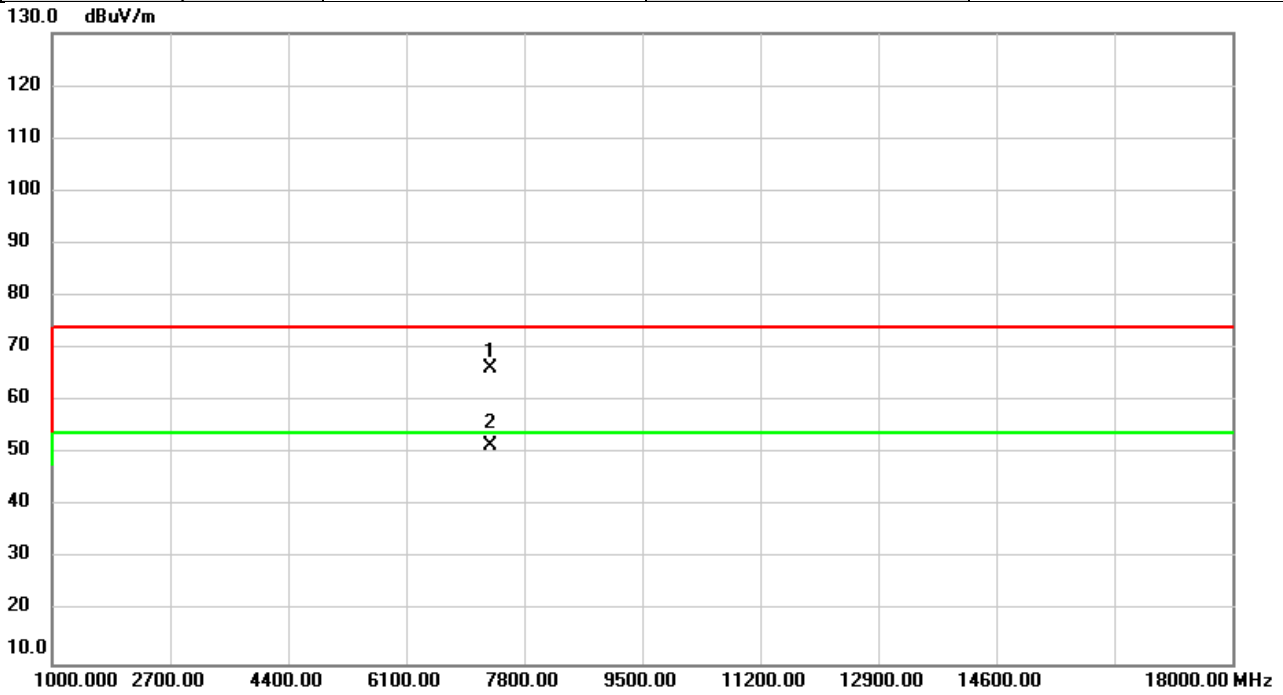


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		7311.000	58.67	5.91	64.58	74.00	-9.42	peak	
2	*	7311.000	45.82	5.91	51.73	54.00	-2.27	AVG	

REMARKS:

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

Test Mode	IEEE 802.11be (EHT40)	Test Date	2023/12/12
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

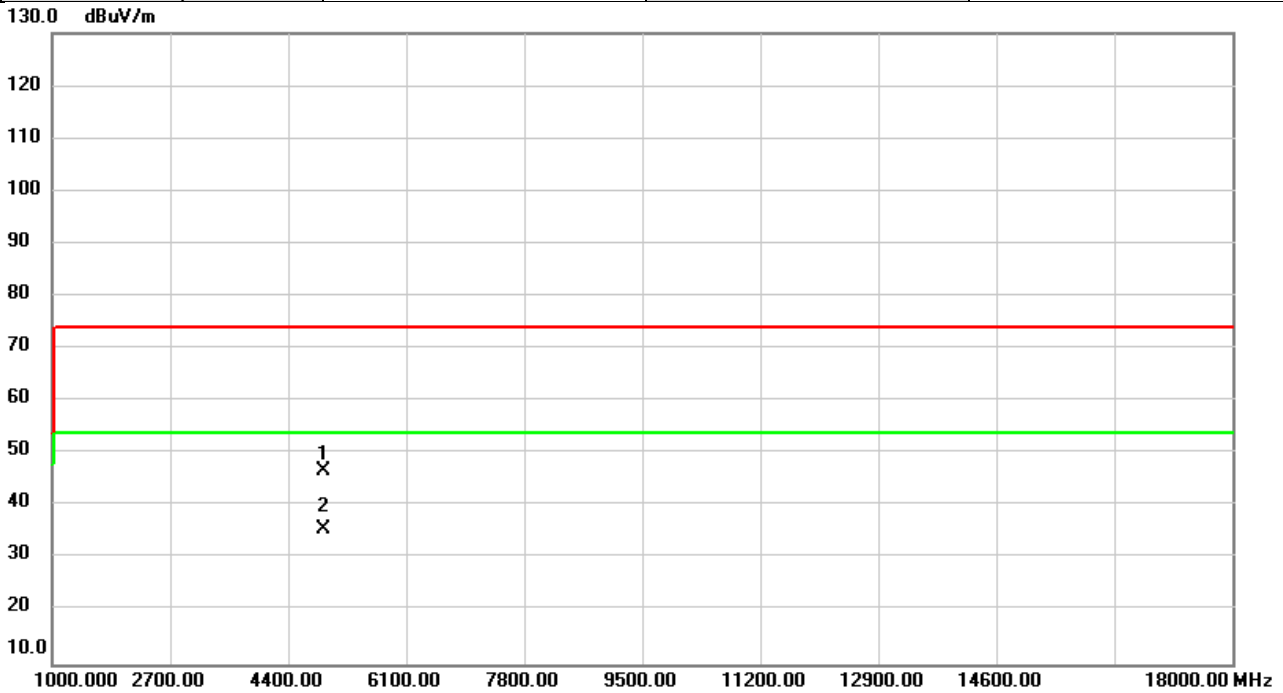


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7311.000	60.27	5.91	66.18	74.00	-7.82	peak	
2	*	7311.000	45.62	5.91	51.53	54.00	-2.47	AVG	

REMARKS:

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

Test Mode	IEEE 802.11be (EHT40)	Test Date	2023/12/12
Test Frequency	2452MHz	Polarization	Vertical
Temp	23°C	Hum.	58%

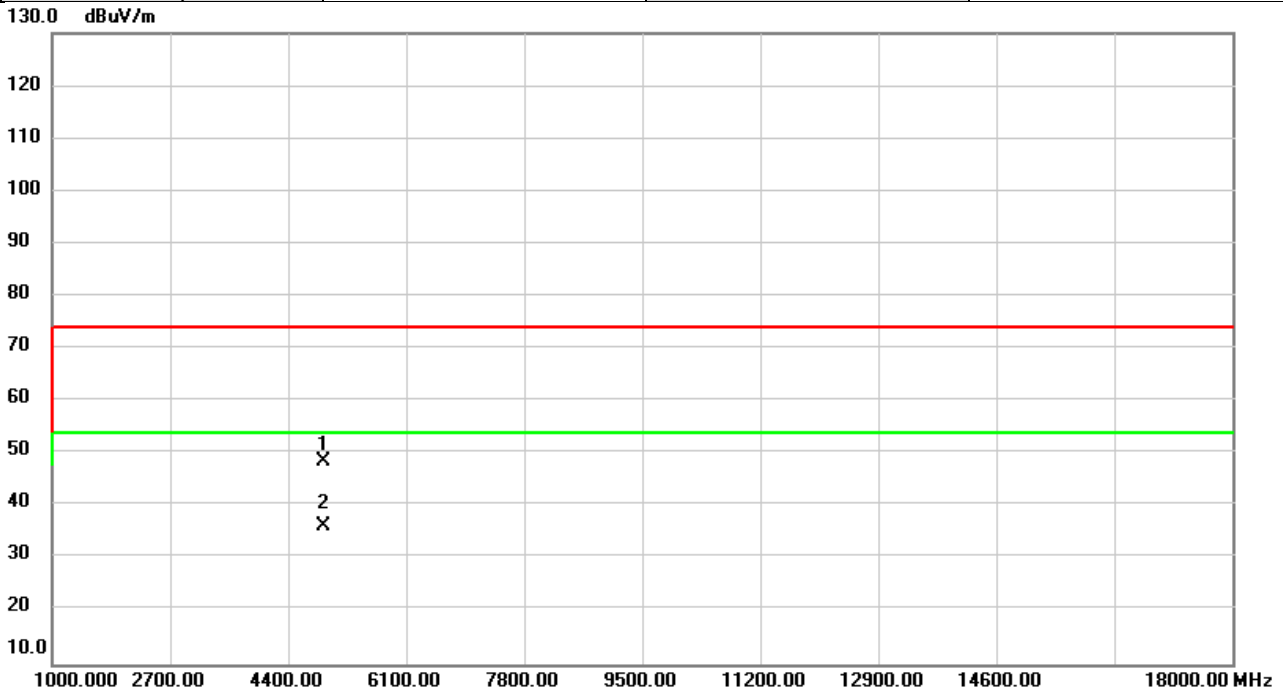


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4904.000	46.05	0.81	46.86	74.00	-27.14	peak	
2	*	4904.000	34.74	0.81	35.55	54.00	-18.45	AVG	

REMARKS:

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

Test Mode	IEEE 802.11be (EHT40)	Test Date	2023/12/12
Test Frequency	2452MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

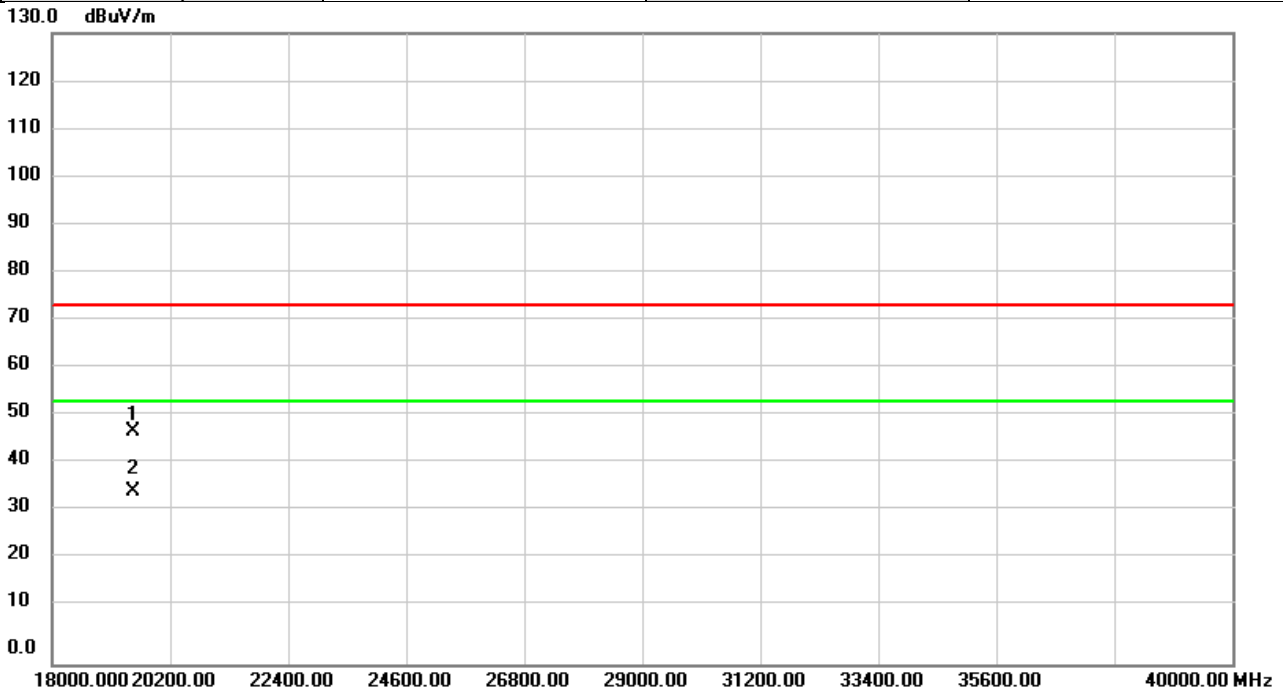


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4904.000	47.63	0.81	48.44	74.00	-25.56	peak	
2	*	4904.000	35.29	0.81	36.10	54.00	-17.90	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/12/15
Test Frequency	2437MHz	Polarization	Vertical
Temp	21°C	Hum.	58%

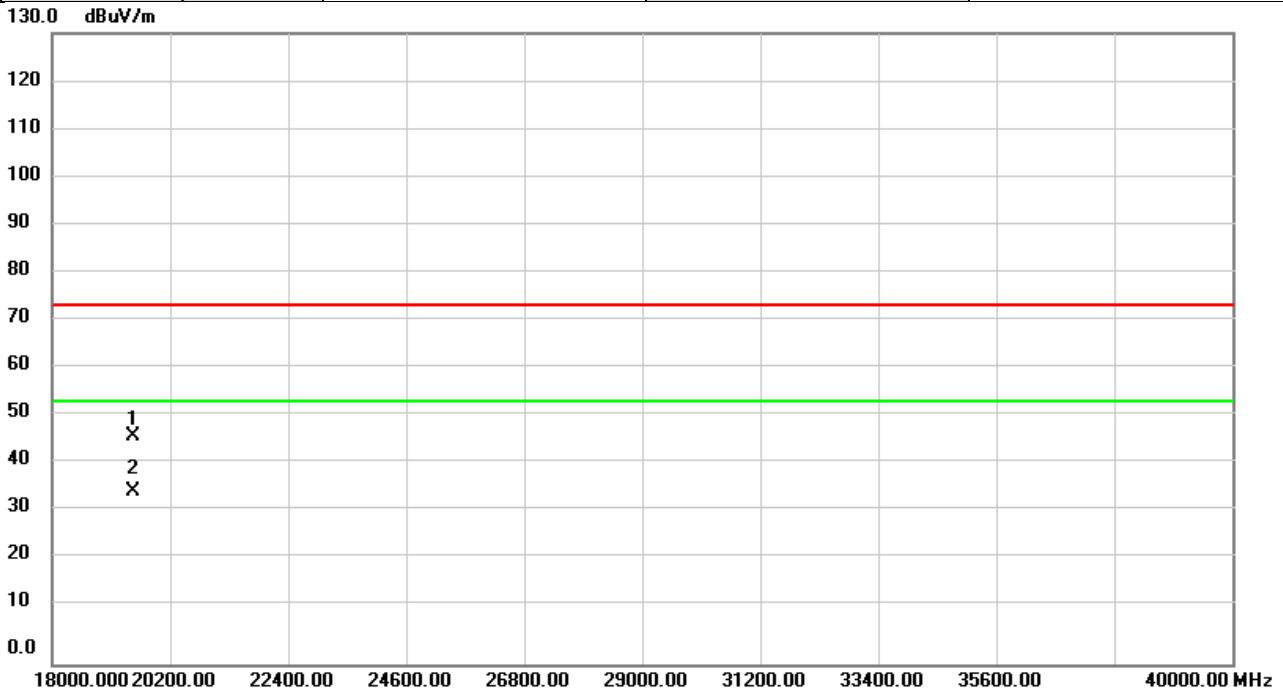


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		19496.00	55.71	-7.64	48.07	74.00	-25.93	peak	
2	*	19496.00	43.29	-7.64	35.65	54.00	-18.35	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/12/15
Test Frequency	2437MHz	Polarization	Horizontal
Temp	21°C	Hum.	58%



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		19496.00	54.46	-7.64	46.82	74.00	-27.18	peak	
2	*	19496.00	43.21	-7.64	35.57	54.00	-18.43	AVG	

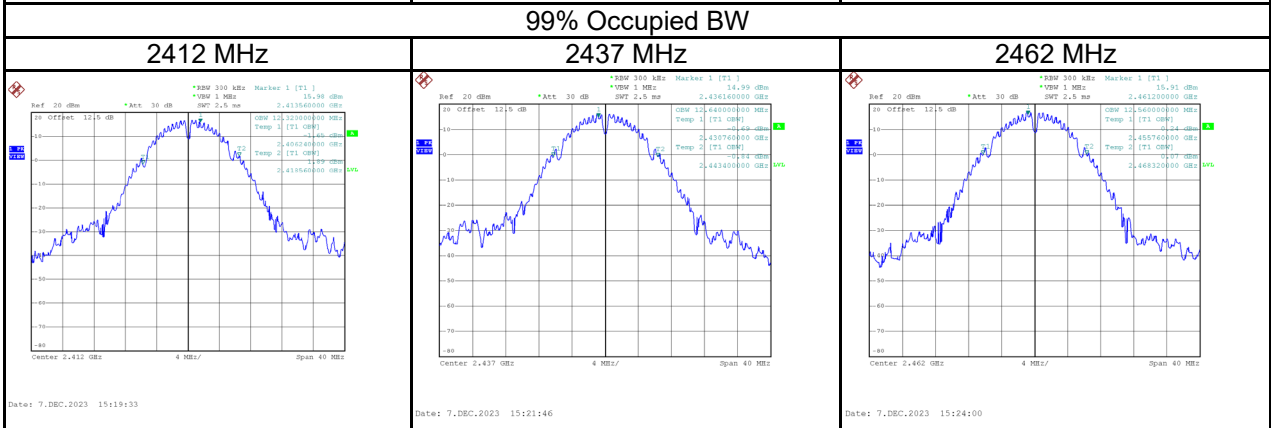
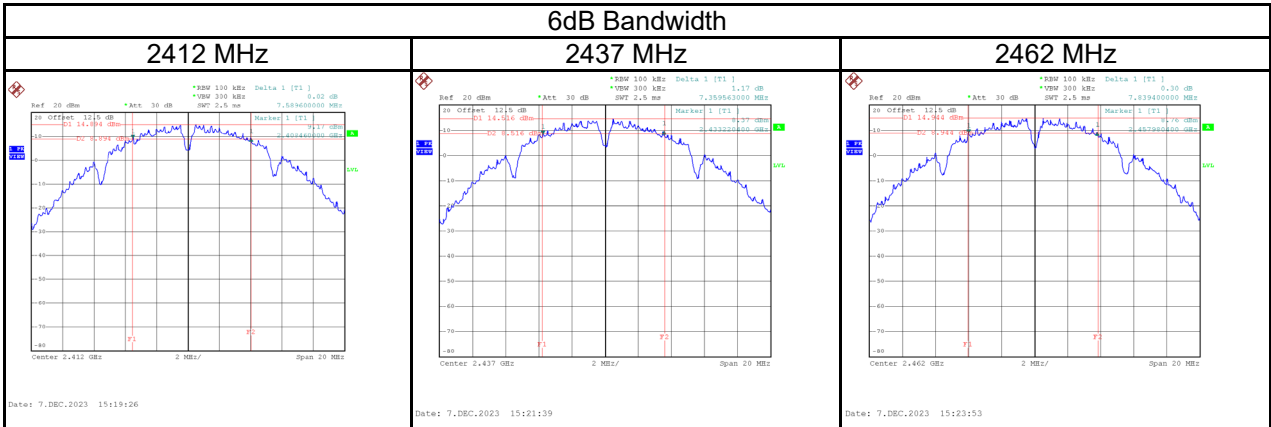
REMARKS:

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

APPENDIX E BANDWIDTH

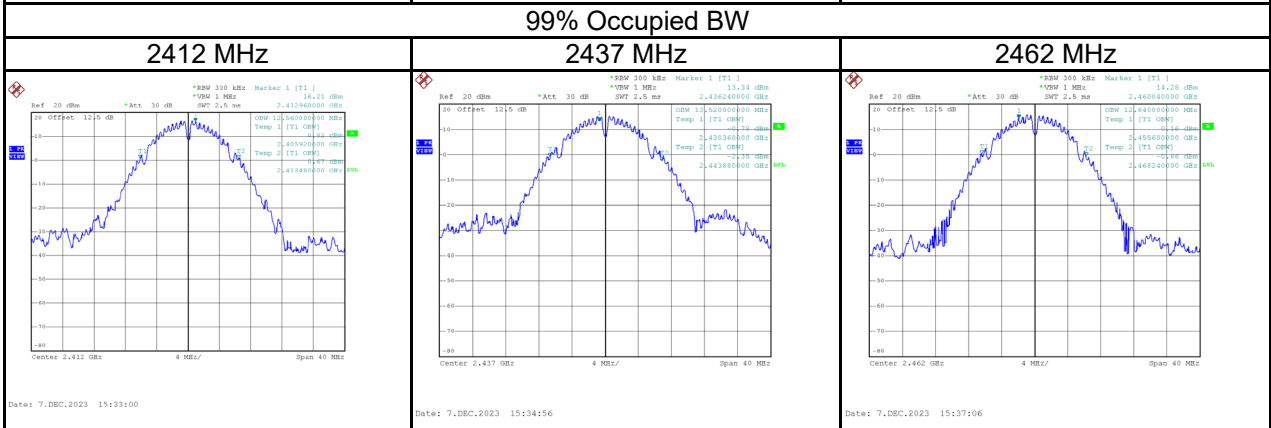
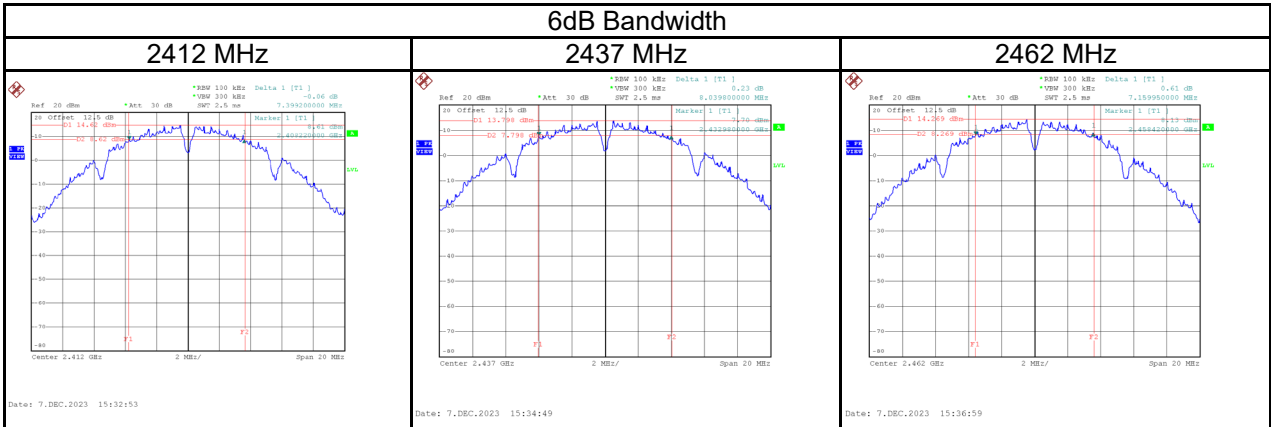
Test Mode	IEEE 802.11b_Ant 1
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	7.59	12.32	≥ 500	Pass
2437	7.36	12.64	≥ 500	Pass
2462	7.84	12.56	≥ 500	Pass



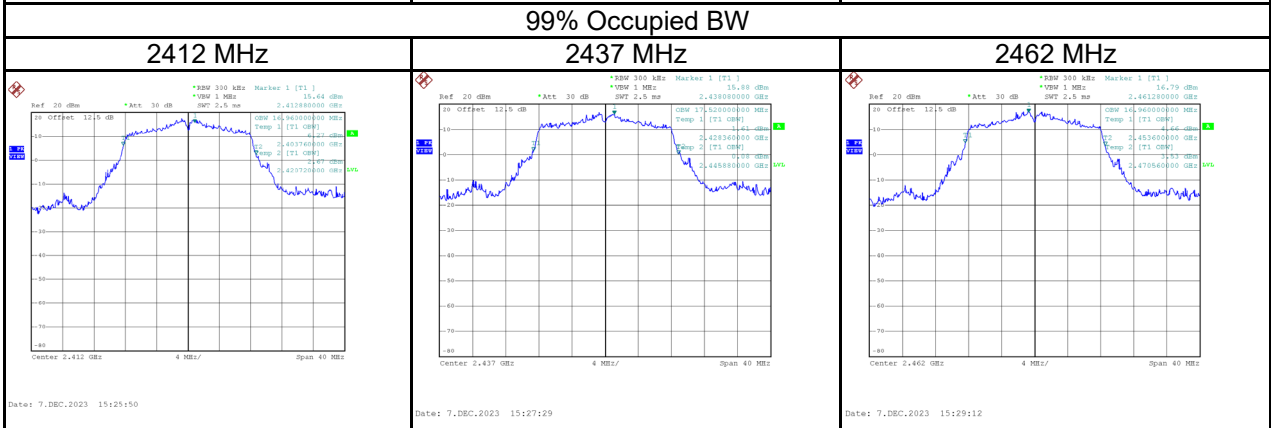
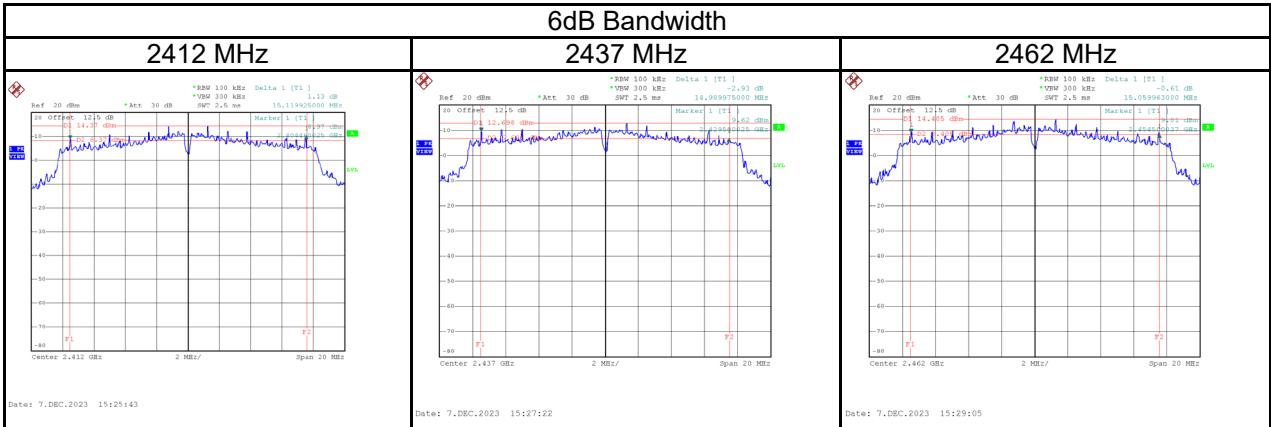
Test Mode	IEEE 802.11b_Ant 2
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	7.40	12.56	≥ 500	Pass
2437	8.04	13.52	≥ 500	Pass
2462	7.16	12.64	≥ 500	Pass



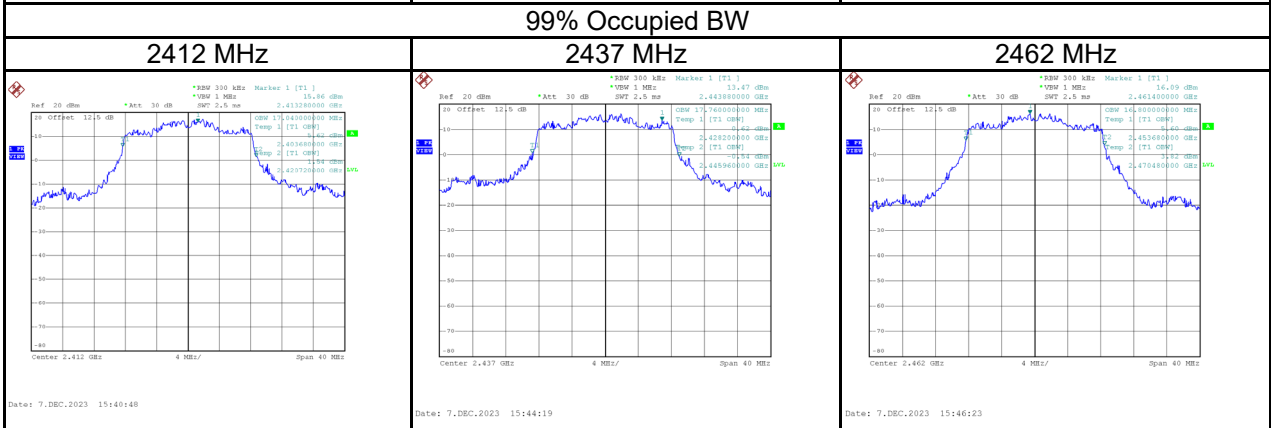
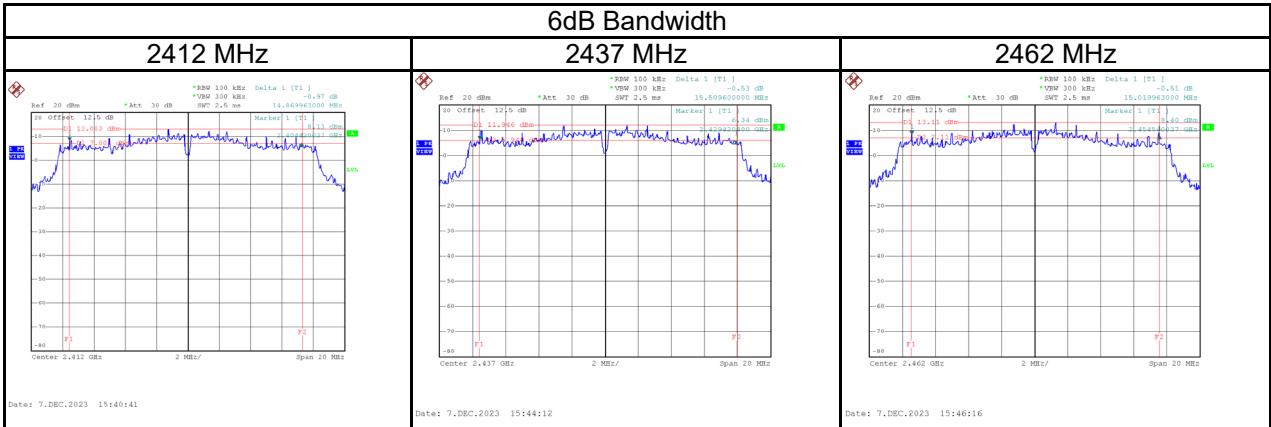
Test Mode	IEEE 802.11g_Ant 1
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	15.12	16.96	≥ 500	Pass
2437	14.99	17.52	≥ 500	Pass
2462	15.06	16.96	≥ 500	Pass



Test Mode	IEEE 802.11g_Ant 2
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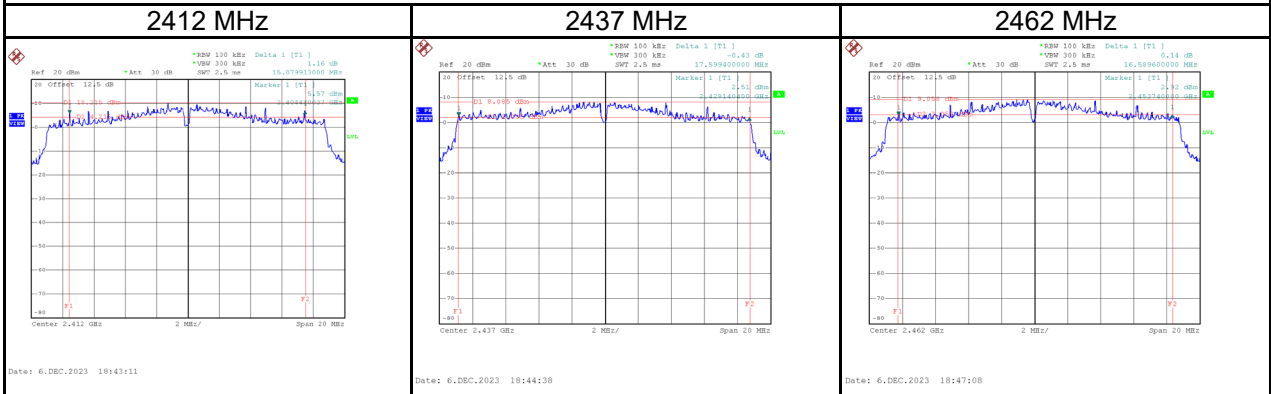
Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	14.87	17.04	≥ 500	Pass
2437	15.51	17.76	≥ 500	Pass
2462	15.02	16.80	≥ 500	Pass



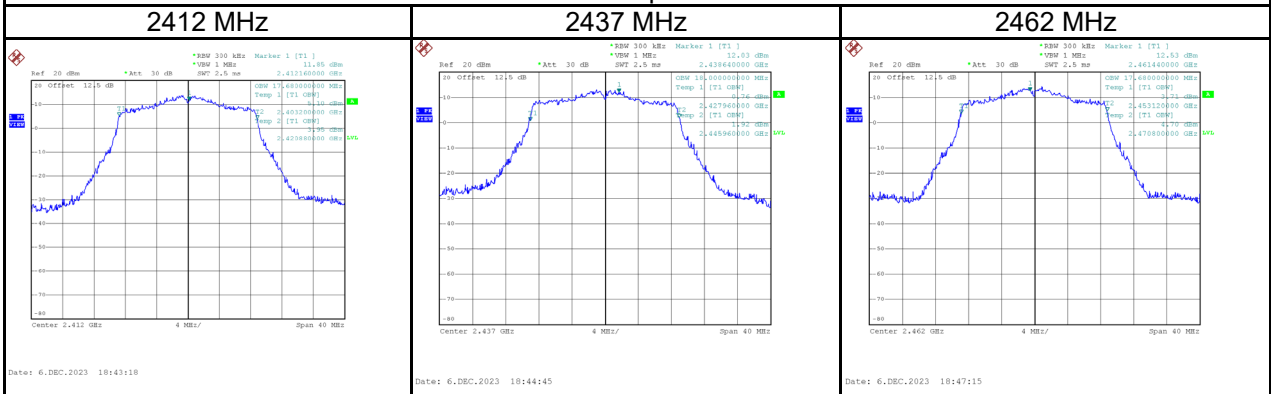
Test Mode	IEEE 802.11n (HT20)_ Ant 1
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	15.08	17.68	≥ 500	Pass
2437	17.60	18.00	≥ 500	Pass
2462	16.59	17.68	≥ 500	Pass

6dB Bandwidth



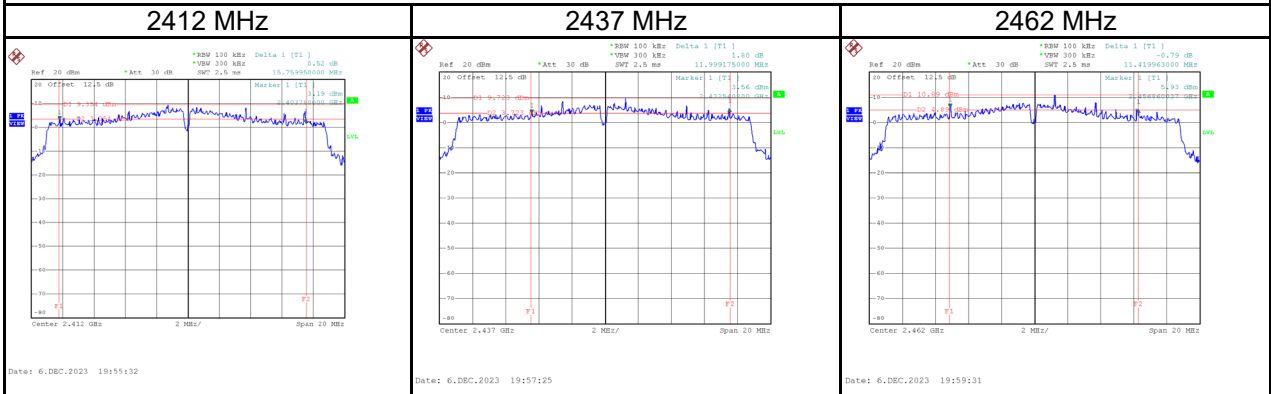
99% Occupied BW



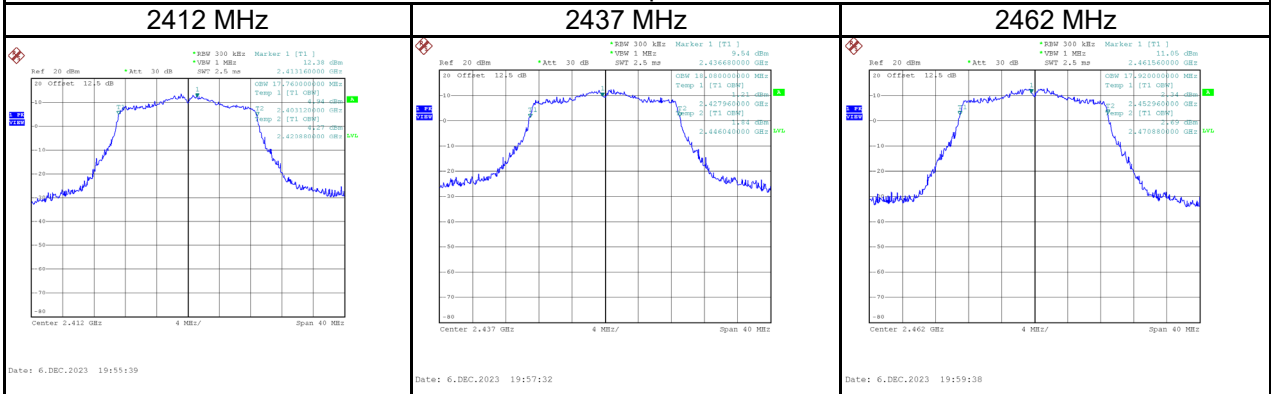
Test Mode	IEEE 802.11n (HT20)_ Ant 2
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	15.76	17.76	≥ 500	Pass
2437	12.00	18.08	≥ 500	Pass
2462	11.42	17.92	≥ 500	Pass

6dB Bandwidth



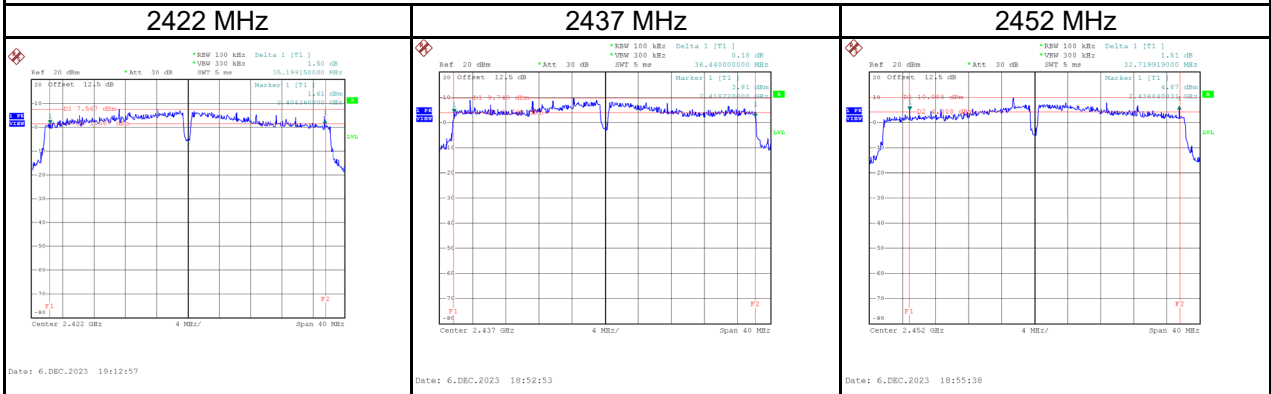
99% Occupied BW



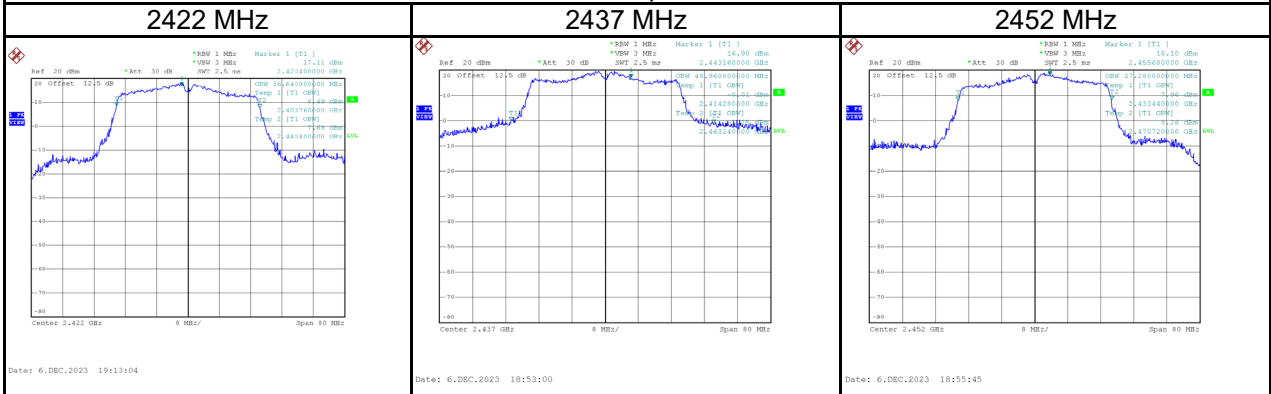
Test Mode	IEEE 802.11n (HT40)_ Ant 1
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2422	35.20	36.64	≥ 500	Pass
2437	36.44	48.96	≥ 500	Pass
2452	32.72	37.28	≥ 500	Pass

6dB Bandwidth

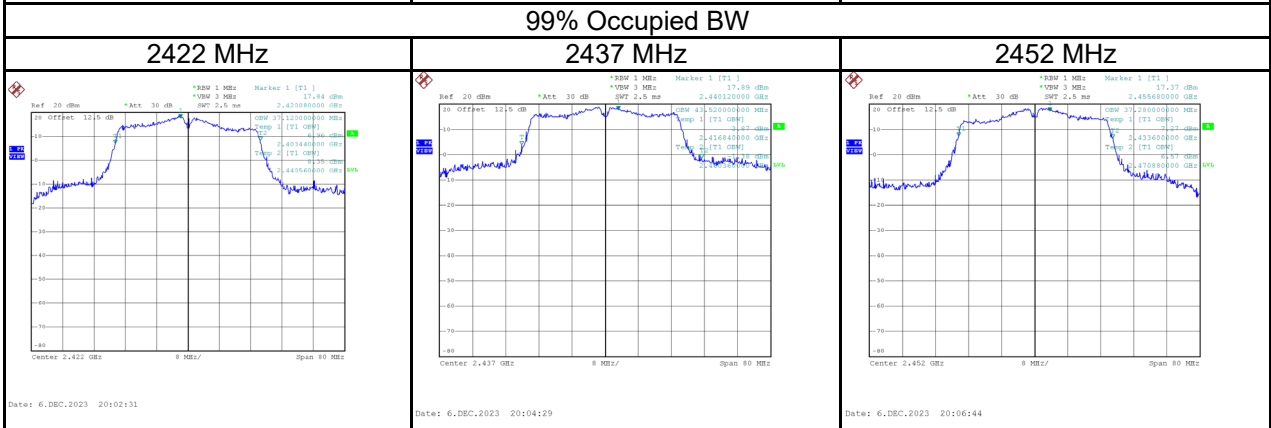
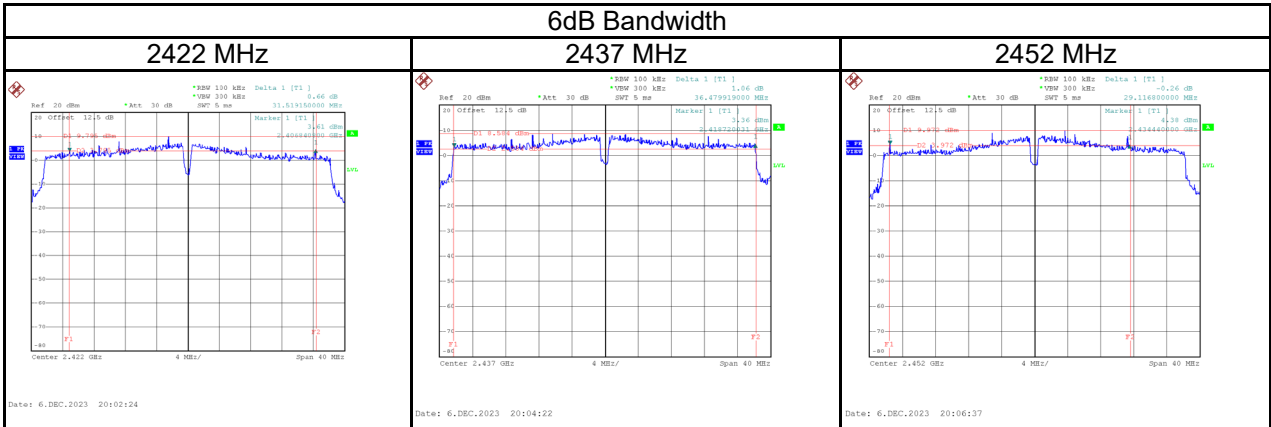


99% Occupied BW



Test Mode	IEEE 802.11n (HT40)_ Ant 2
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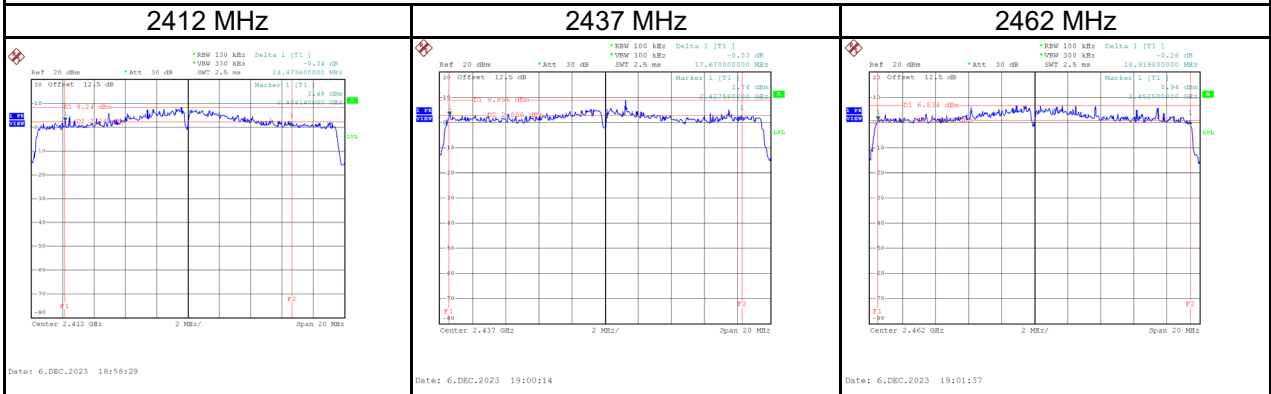
Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2422	31.52	37.12	≥ 500	Pass
2437	36.48	43.52	≥ 500	Pass
2452	29.12	37.28	≥ 500	Pass



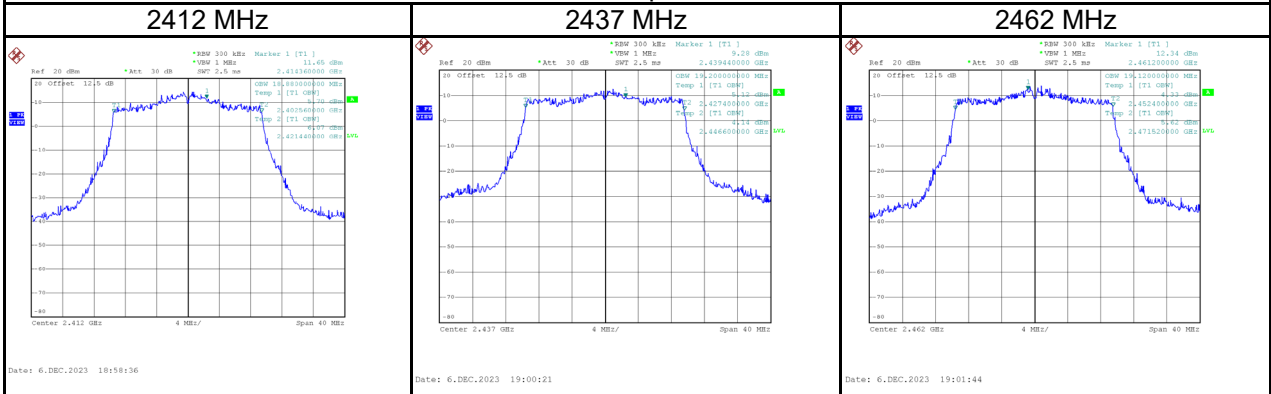
Test Mode	IEEE 802.11ax (HE20)_ Ant 1
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	14.48	18.88	≥ 500	Pass
2437	17.67	19.20	≥ 500	Pass
2462	18.92	19.12	≥ 500	Pass

6dB Bandwidth



99% Occupied BW



Test Mode	IEEE 802.11ax (HE20)_ Ant 2
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	16.92	19.04	≥ 500	Pass
2437	14.79	19.12	≥ 500	Pass
2462	12.56	18.96	≥ 500	Pass

