

FCC Radio Test Report

FCC ID: HBW1595

Report No. : BTL-FCCP-3-2303T057
Equipment : Smart Video Intercom - L
Model Name : CAPXLV2
Brand Name : Liftmaster
Applicant : Chamberlain Group LLC, The
Address : 300 Windsor Dr, Oak Brook, Illinois, United States, 60523

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 : 2023/3/20
Date of Test : 2023/6/15 ~ 2023/8/24
Issued Date : 2023/9/28

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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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-3-2303T057	R00	Original Report.	2023/9/13	Invalid
BTL-FCCP-3-2303T057	R01	Revised report to address TCB's comments.	2023/9/28	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	Pass	-----
15.247(a)	Bandwidth	APPENDIX D	Pass	-----
15.247(b)	Output Power	APPENDIX E	Pass	-----
15.247(e)	Power Spectral Density	APPENDIX F	Pass	-----
15.247(d)	Antenna conducted Spurious Emission	APPENDIX G	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

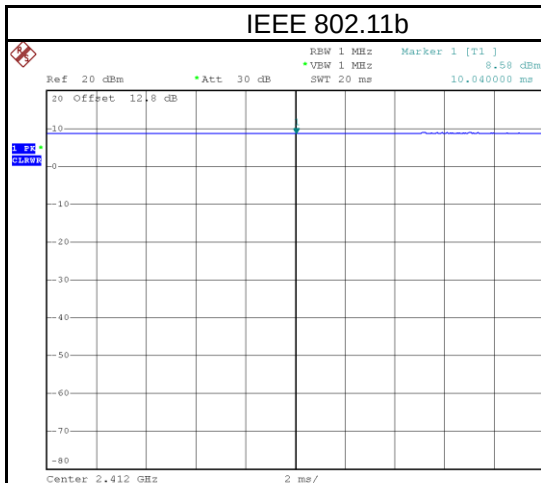
Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	22 °C, 54 %	AC 120V	Cora Lin
Radiated emissions below 1 GHz	Refer to data	AC 120V	Mark Wang
Radiated emissions above 1 GHz	Refer to data	AC 120V	Mark Wang
Bandwidth	23.7 °C, 48 %	AC 120V	Jay Tien
Output Power	23.7 °C, 48 %	AC 120V	Jay Tien
Power Spectral Density	23.7 °C, 48 %	AC 120V	Jay Tien
Antenna conducted Spurious Emission	23.7 °C, 48 %	AC 120V	Jay Tien

1.4 DUTY CYCLE

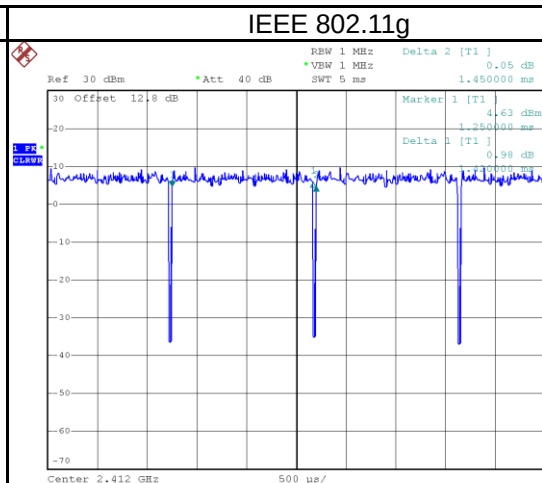
If duty cycle is $\geq 98\%$, duty factor is not required.

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

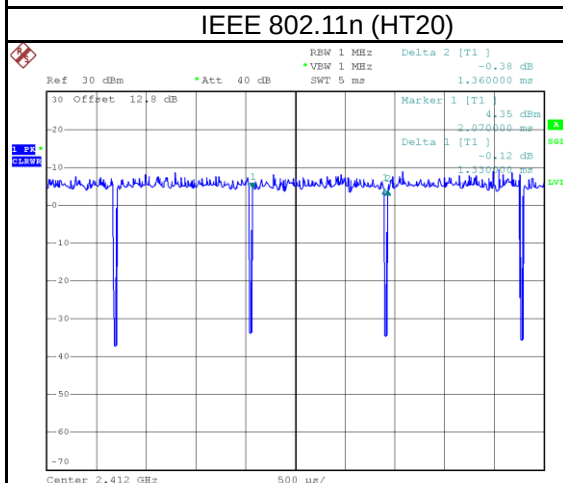
Remark	Delta 1			Delta 2	On Time/Period	10 log(1/Duty Cycle)
Mode	ON (ms)	Numbers (ON)	On Time (B) (ms)	Period (ON+OFF) (ms)	Duty Cycle (%)	Duty Factor (dB)
IEEE 802.11b	1.000	1	1.000	1.000	100.00%	0.00
IEEE 802.11g	1.420	1	1.420	1.450	97.93%	0.09
IEEE 802.11n (HT20)	1.330	1	1.330	1.360	97.79%	0.10



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2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Smart Video Intercom - L
Model Name	CAPXLV2
Brand Name	Liftmaster
Model Difference	N/A
Power Source	1. DC voltage supplied from AC/DC adapter. 2. DC voltage supplied from PoE.
Power Rating	1. I/P: 100-240V~ 50/60Hz 1.5A O/P: 24.0V---3.0A, 72.0W 2. DC 48V
Products Covered	1 * Adapter: Shenzhen GEAO Technology Co Ltd / QX72W240300D3
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 72.2 Mbps
Output Power Max.	IEEE 802.11b: 19.08 dBm (0.0809 W) IEEE 802.11g: 23.52 dBm (0.2249 W) IEEE 802.11n (HT20): 21.99 dBm (0.1578 W)
Operating Software	PuTTY Release 0.62
Test Model	CAPXLV2
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:

Group I:

Antenna	Manufacture	Part No.	Type	Connector	Gain (dBi)
External antenna	Radiation Technology, Inc.	C0289-ANG0011	Dipole	SMA	2.94

Group II:

Antenna	Manufacture	Part No.	Type	Connector	Gain (dBi)
Built-in antenna	Quectel	YF0011RA	FPC	I-PEX	3.1

NOTE: The EUT includes two groups of antenna, for Radiated External antenna and Built-in antenna are evaluated, for other test items only the worst case Built-in antenna is recorded.

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

2.2 TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Transmitter Radiated Emissions (below 1GHz)	TX Mode_ IEEE 802.11g	11	-
Transmitter Radiated Emissions (above 1GHz)	TX Mode_ IEEE 802.11b	01/11	Bandedge
	TX Mode_ IEEE 802.11g		
	TX Mode_ IEEE 802.11n (HT20)		
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)		
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)		

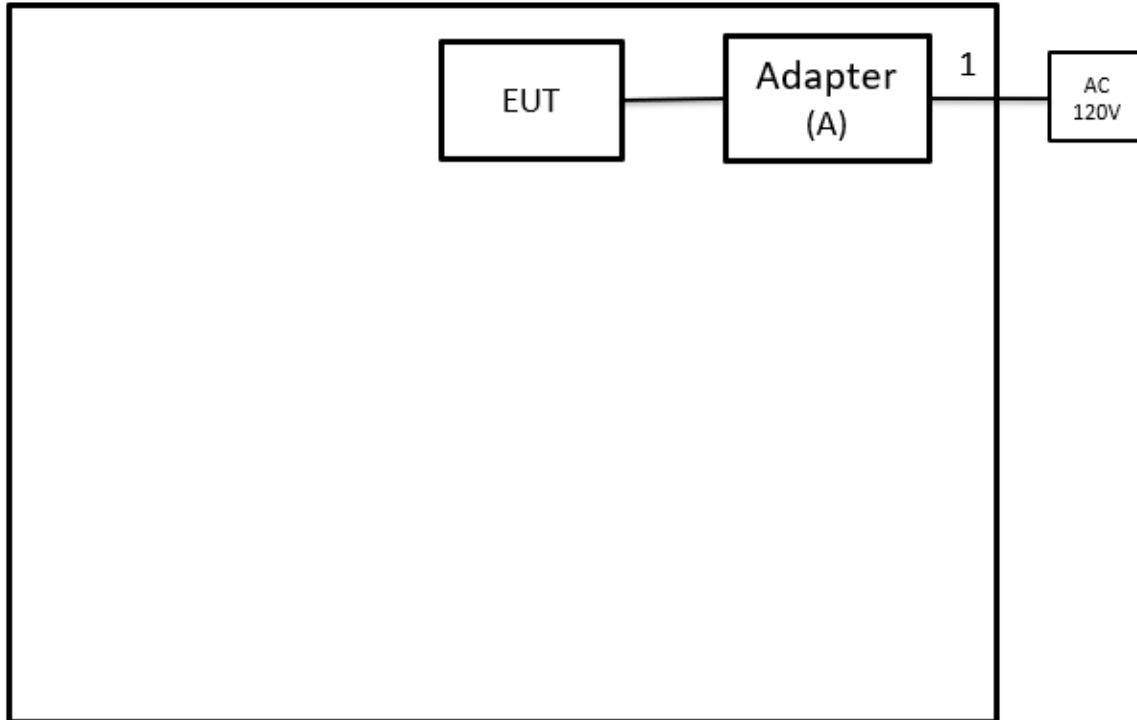
NOTE:

- (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 AC Power line conducted emissions and transmitter radiated emissions (below 1GHz), POE mode and adapter mode are evaluated, adapter mode is found to be the worst case and used for final test.
- (4) For AC Power line conducted emissions and transmitter radiated emissions (below 1GHz), both POE mode and adapter mode are evaluated. For the other test item, only adapter mode is used.

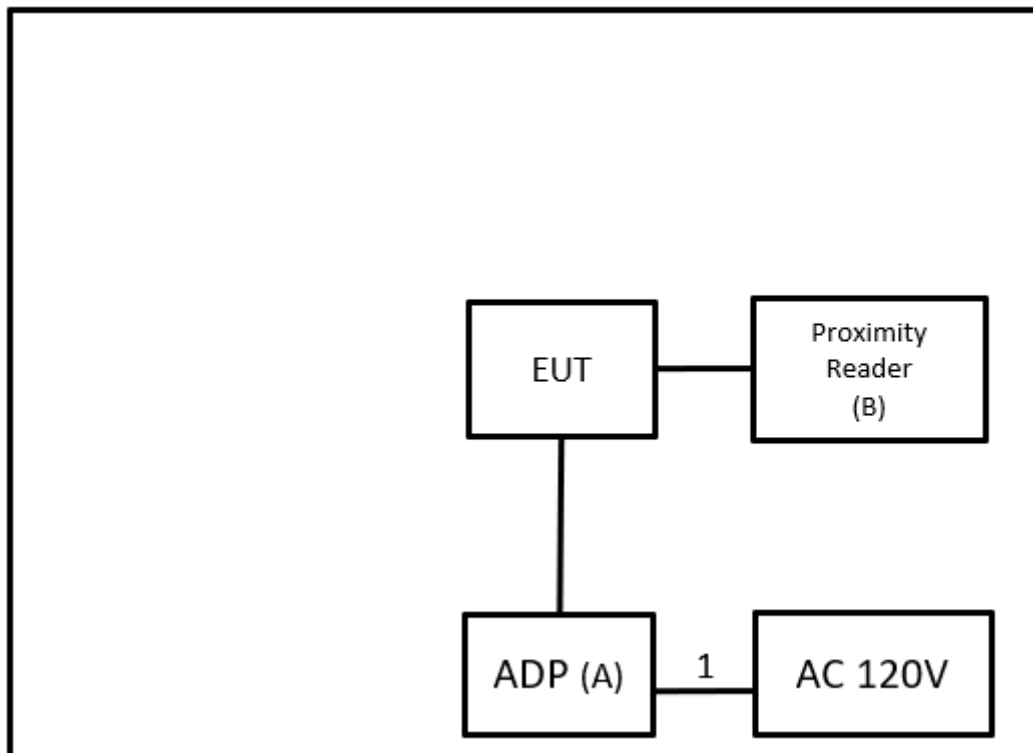
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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

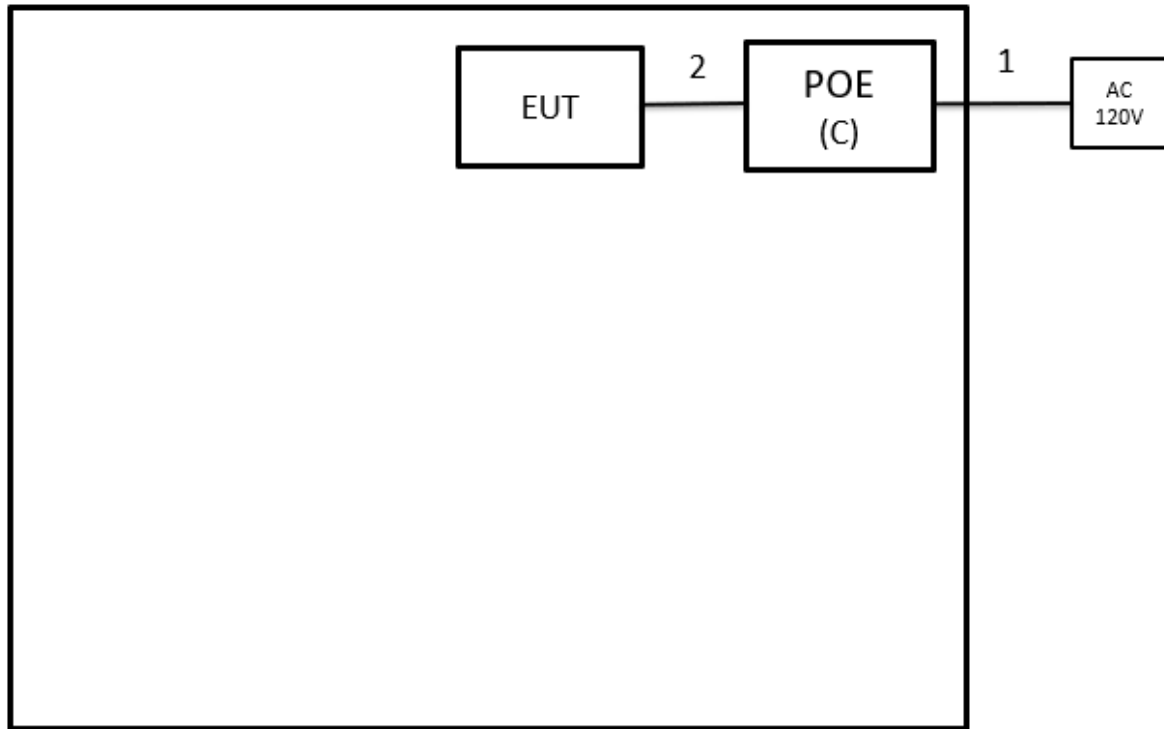
Adapter Mode
AC power line conducted emissions



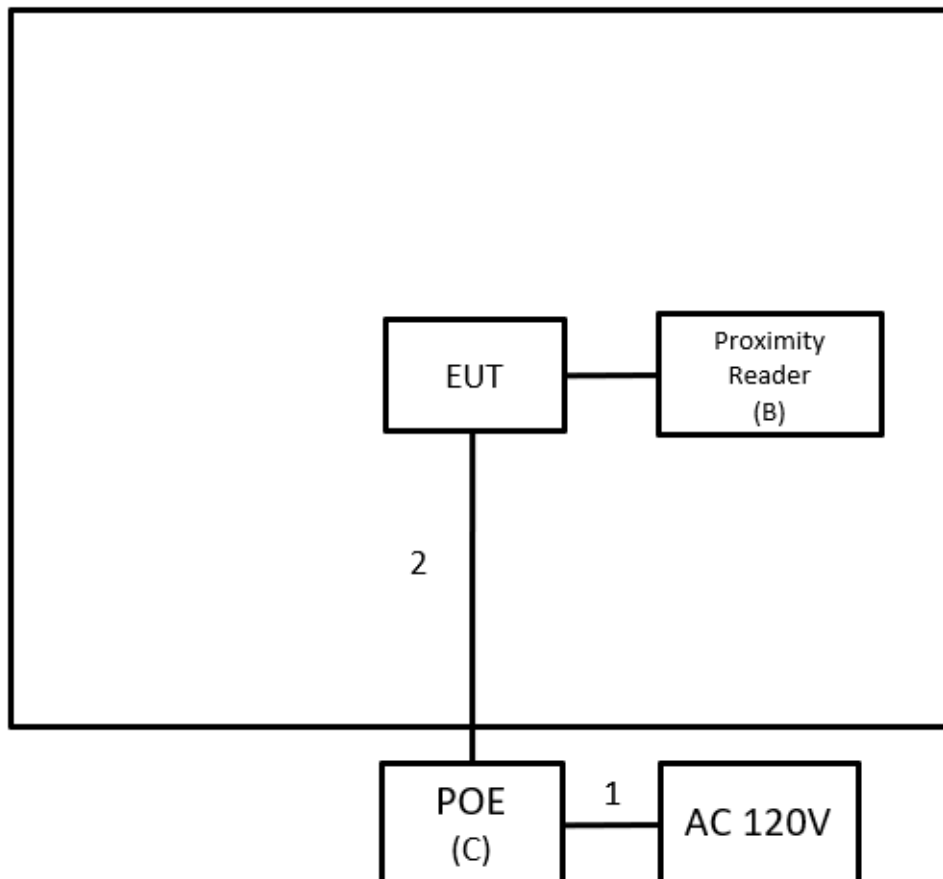
Radiated Emissions



POE Mode
AC power line conducted emissions



Radiated Emissions (below 1GHz)



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Adapter	Shenzhen GEAO Technology Co Ltd	QX72W240300D3	N/A	Supplied by test requester.
B	Proximity Reader	AWID	SR-2400	N/A	Supplied by test requester.
C	POE	HUAWEI	PoE35-54A	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	No	No	1.1m	Power Cord	Supplied by test requester.
2	No	No	10m	RJ45 Cable	Furnished by test lab.

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

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

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)
 Margin Level = Measurement Value – Limit Value
 Calculation example:

Reading Level		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.

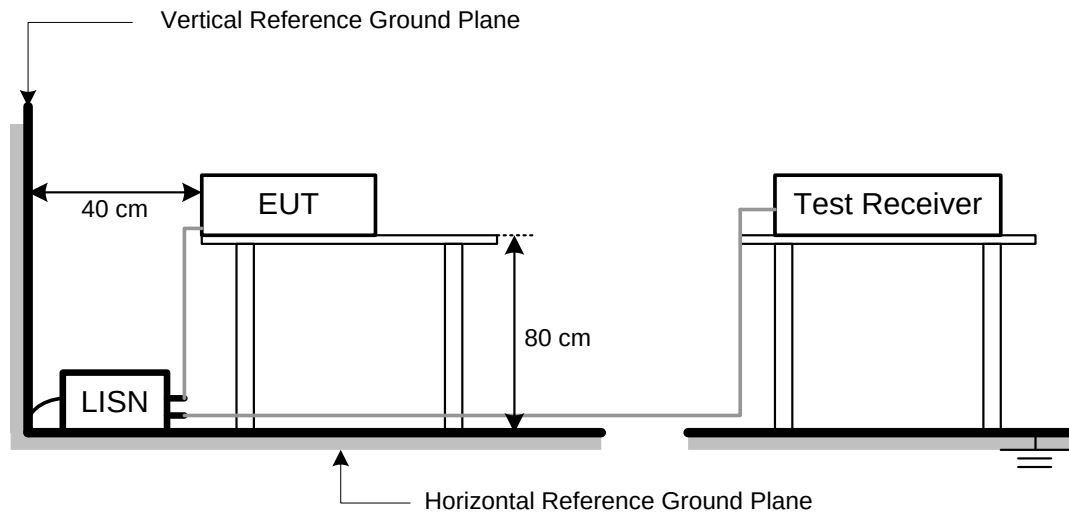
NOTE:

- (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		Correct Factor		Measurement Value
19.11	+	2.11	=	21.22

Measurement Value		Limit Value		Margin Level
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	300
IEEE 802.11g	3K
IEEE 802.11n (HT20)	750

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

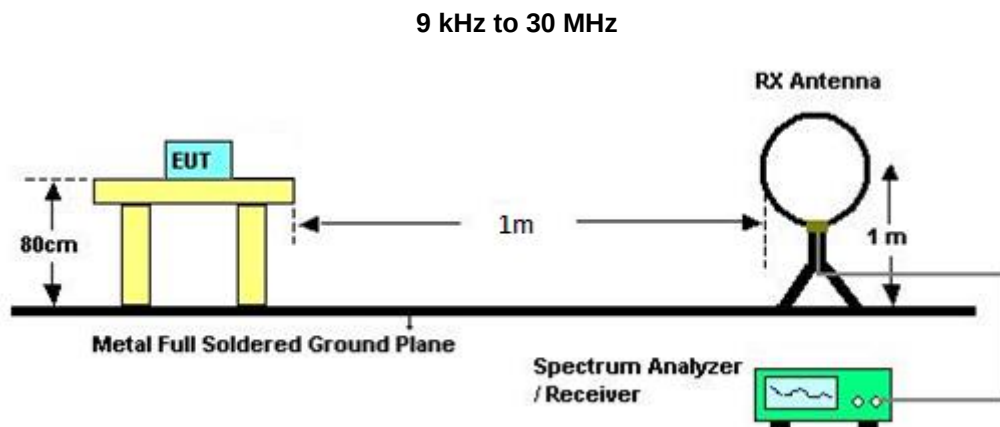
4.2 TEST PROCEDURE

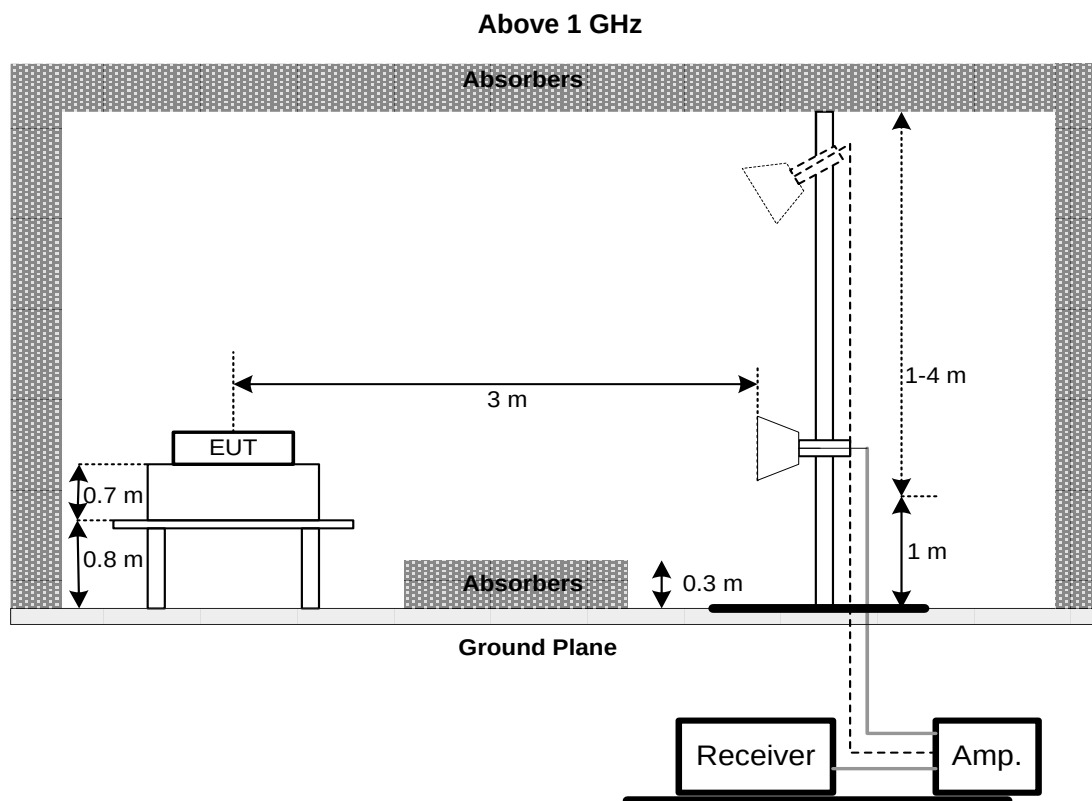
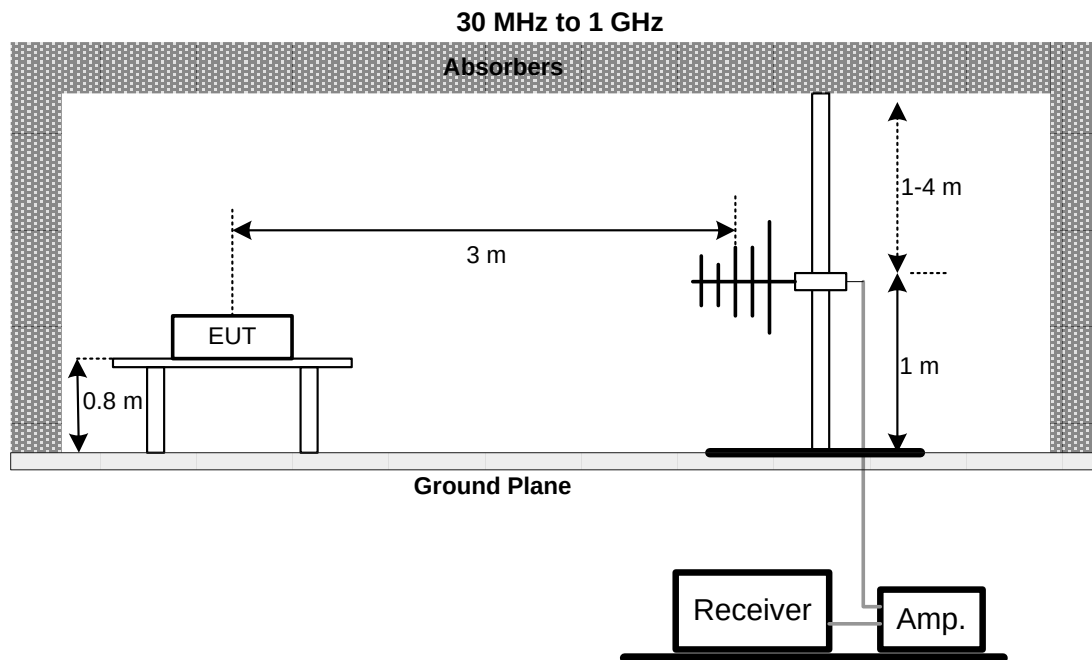
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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 – BELOW 30 MHZ

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

4.7 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX B.

4.8 TEST RESULT – ABOVE 1 GHZ

Please refer to the APPENDIX C.

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

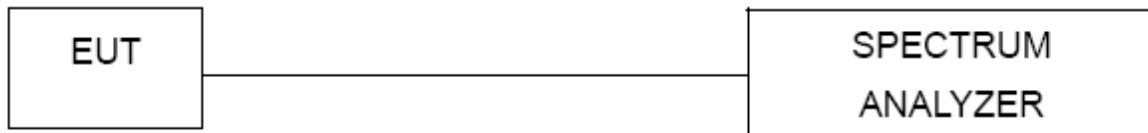
5.2 TEST PROCEDURE

- 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 D.

6 OUTPUT POWER TEST

6.1 LIMIT

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

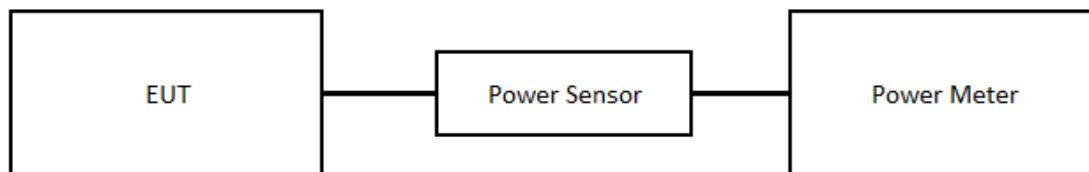
6.2 TEST PROCEDURE

- 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 E.

7 POWER SPECTRAL DENSITY

7.1 LIMIT

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

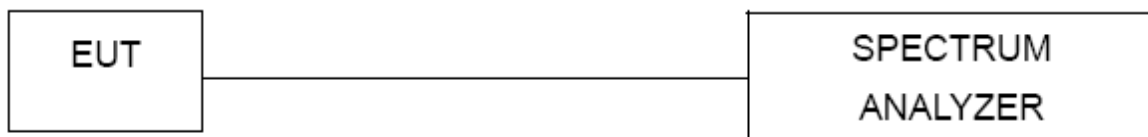
7.2 TEST PROCEDURE

- 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 F.

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 G.

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	2022/9/28	2023/9/27
2	Test Cable	EMCI	EMCRG58-BM-B M-9000	220331	2023/3/30	2024/3/29
3	EMI Test Receiver	R&S	ESR 7	101433	2022/11/16	2023/11/15
4	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC330N	980850	2022/9/19	2023/9/18
2	Test Cable	EMCI	EMC104-SM-SM-1000	180810	2023/7/10	2024/7/9
3	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2023/3/14	2024/3/13
4	Test Cable	EMCI	EMC104-SM-SM-7000	220324	2023/3/14	2024/3/13
5	EXA Signal Analyzer	keysight	N9020B	MY57120120	2023/2/24	2024/2/23
6	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2023/5/9	2024/5/8
7	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2023/5/9	2024/5/8
8	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions - Above 1 GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC330N	980850	2022/9/19	2023/9/18
2	Preamplifier	EMCI	EMC118A45SE	980819	2023/3/7	2024/3/6
3	Pre-Amplifier	EMCI	EMC184045SE	980907	2022/9/28	2023/9/27
4	Preamplifier	EMCI	EMC001340	980579	2022/9/30	2023/9/29
5	Test Cable	EMCI	EMC104-SM-SM-1000	220319	2023/3/14	2024/3/13
6	Test Cable	EMCI	EMC104-SM-SM-1000	180810	2023/7/10	2024/7/9
7	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2023/3/14	2024/3/13
8	Test Cable	EMCI	EMC104-SM-SM-7000	220324	2023/3/14	2024/3/13
9	EXA Signal Analyzer	keysight	N9020B	MY57120120	2023/2/24	2024/2/23
10	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2022/9/19	2023/9/18
11	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2023/5/12	2024/5/11
12	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2023/5/12	2024/5/11
13	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2023/5/9	2024/5/8
14	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2023/5/9	2024/5/8
15	Test Cable	EMCI	EMC101G-KM-K-M-3000	220329	2023/3/14	2024/3/13
16	Test Cable	EMCI	EMC102-KM-KM-1000	220327	2023/3/14	2024/3/13
17	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A

Bandwidth						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2022/10/7	2023/10/6

Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Power Meter	Keysight	8990B	MY51000517	2023/3/15	2024/3/14
2	Power Sensor	Keysight	N1923A	MY58310005	2023/3/15	2024/3/14

Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2022/10/7	2023/10/6

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	2022/10/7	2023/10/6

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

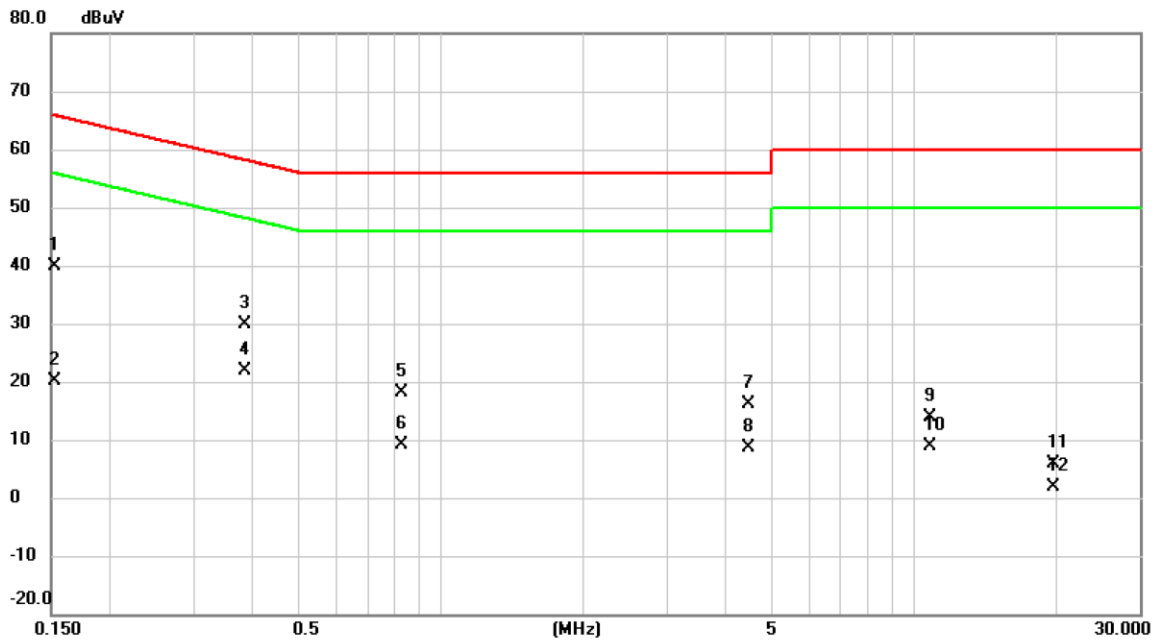
Please refer to document Appendix No.: TP-2303T057-FCCP-1 (APPENDIX-TEST PHOTOS).

11 EUT PHOTOS

Please refer to document Appendix No.: EP-2303T057-2 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2023/6/15
Test Frequency	-	Phase	Line

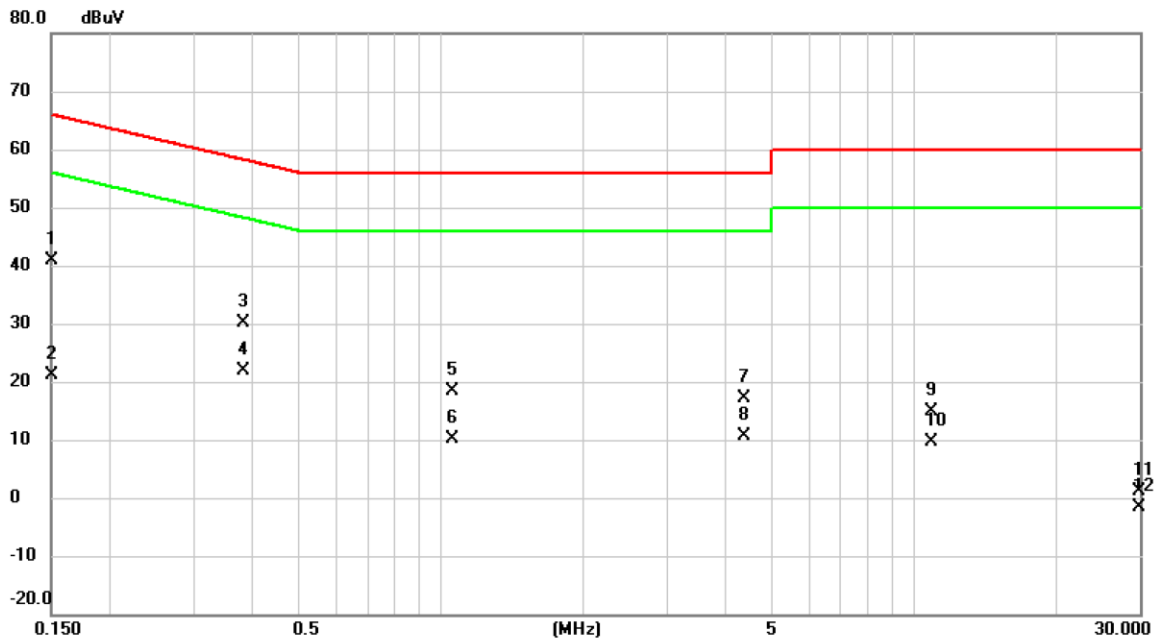


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1522	39.73	0.04	39.77	65.88	-26.11	QP	
2		0.1522	20.11	0.04	20.15	55.88	-35.73	AVG	
3		0.3840	29.96	0.02	29.98	58.19	-28.21	QP	
4		0.3840	21.78	0.02	21.80	48.19	-26.39	AVG	
5		0.8272	18.01	0.01	18.02	56.00	-37.98	QP	
6		0.8272	9.04	0.01	9.05	46.00	-36.95	AVG	
7		4.4655	16.05	0.05	16.10	56.00	-39.90	QP	
8		4.4655	8.67	0.05	8.72	46.00	-37.28	AVG	
9		10.7880	13.88	0.12	14.00	60.00	-46.00	QP	
10		10.7880	8.72	0.12	8.84	50.00	-41.16	AVG	
11		19.7408	5.82	0.18	6.00	60.00	-54.00	QP	
12		19.7408	1.62	0.18	1.80	50.00	-48.20	AVG	

REMARKS:

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

Test Mode	Normal	Tested Date	2023/6/15
Test Frequency	-	Phase	Neutral

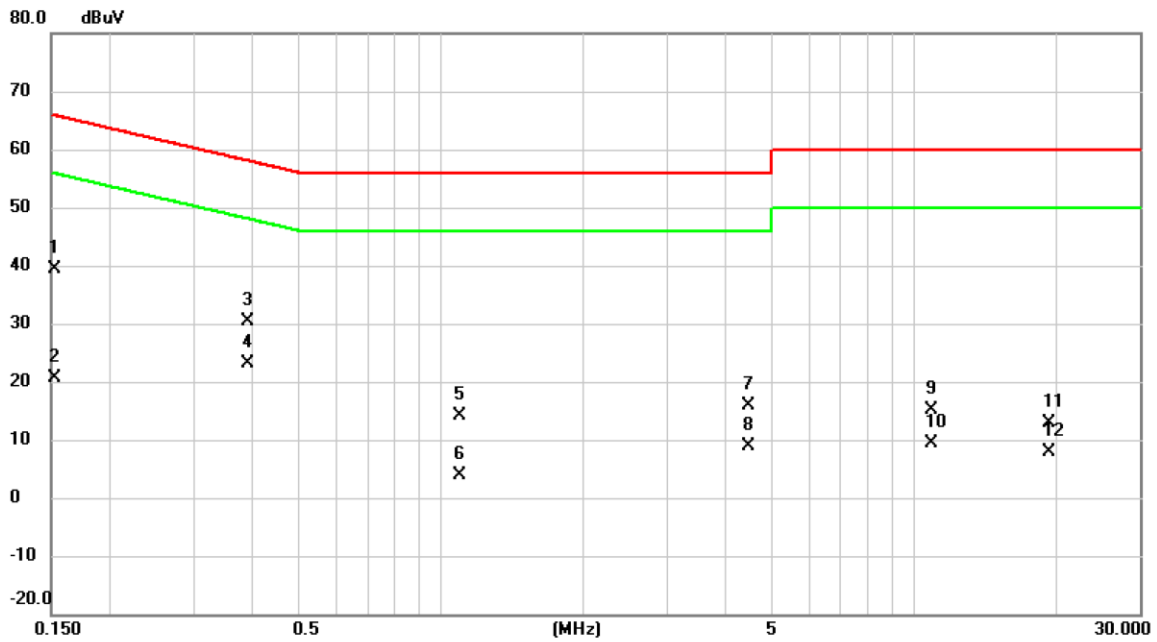


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	40.75	0.04	40.79	66.00	-25.21	QP	
2		0.1500	21.20	0.04	21.24	56.00	-34.76	AVG	
3		0.3817	30.15	0.02	30.17	58.24	-28.07	QP	
4		0.3817	21.84	0.02	21.86	48.24	-26.38	AVG	
5		1.0545	18.38	0.01	18.39	56.00	-37.61	QP	
6		1.0545	10.23	0.01	10.24	46.00	-35.76	AVG	
7		4.3800	17.20	0.05	17.25	56.00	-38.75	QP	
8		4.3800	10.53	0.05	10.58	46.00	-35.42	AVG	
9		10.8870	14.80	0.13	14.93	60.00	-45.07	QP	
10		10.8870	9.39	0.13	9.52	50.00	-40.48	AVG	
11		29.9873	0.82	0.30	1.12	60.00	-58.88	QP	
12		29.9873	-2.01	0.30	-1.71	50.00	-51.71	AVG	

REMARKS:

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

Test Mode	Idle	Tested Date	2023/6/15
Test Frequency	-	Phase	Line

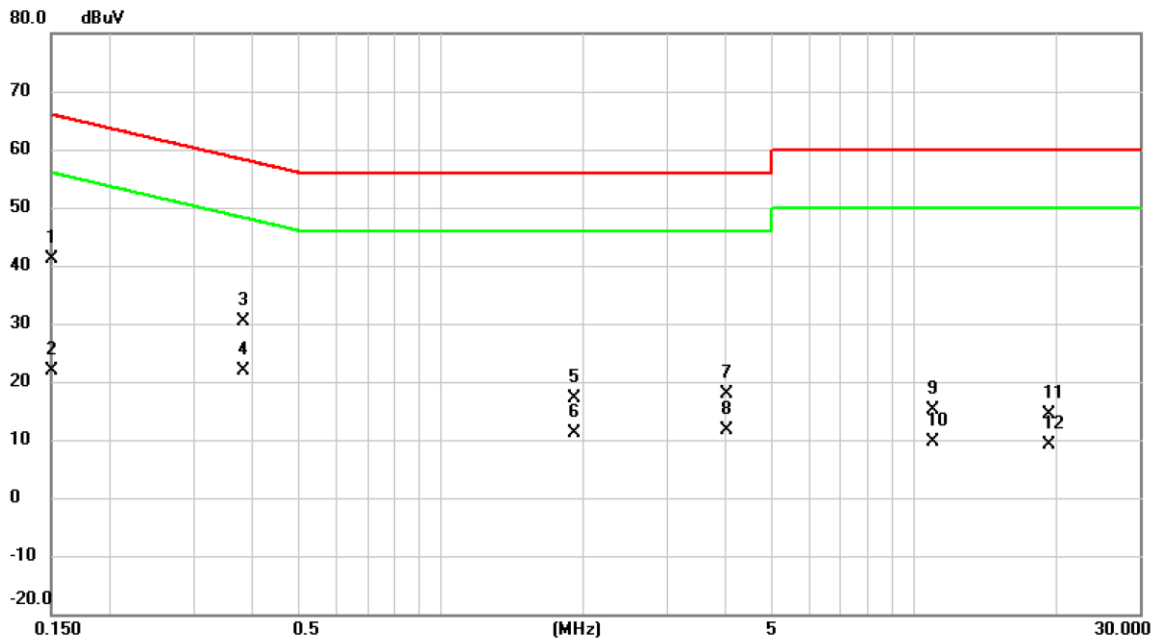


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1522	39.44	0.04	39.48	65.88	-26.40	QP	
2		0.1522	20.54	0.04	20.58	55.88	-35.30	AVG	
3		0.3907	30.27	0.02	30.29	58.05	-27.76	QP	
4	*	0.3907	23.12	0.02	23.14	48.05	-24.91	AVG	
5		1.0995	14.22	0.02	14.24	56.00	-41.76	QP	
6		1.0995	3.91	0.02	3.93	46.00	-42.07	AVG	
7		4.4678	15.84	0.05	15.89	56.00	-40.11	QP	
8		4.4678	8.81	0.05	8.86	46.00	-37.14	AVG	
9		10.9184	15.12	0.13	15.25	60.00	-44.75	QP	
10		10.9184	9.31	0.13	9.44	50.00	-40.56	AVG	
11		19.2863	12.70	0.18	12.88	60.00	-47.12	QP	
12		19.2863	7.58	0.18	7.76	50.00	-42.24	AVG	

REMARKS:

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

Test Mode	Idle	Tested Date	2023/6/15
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	40.98	0.04	41.02	66.00	-24.98	QP	
2		0.1500	21.89	0.04	21.93	56.00	-34.07	AVG	
3		0.3817	30.47	0.02	30.49	58.24	-27.75	QP	
4		0.3817	21.85	0.02	21.87	48.24	-26.37	AVG	
5		1.9118	16.95	0.06	17.01	56.00	-38.99	QP	
6		1.9118	11.09	0.06	11.15	46.00	-34.85	AVG	
7		4.0223	17.85	0.05	17.90	56.00	-38.10	QP	
8		4.0223	11.60	0.05	11.65	46.00	-34.35	AVG	
9		10.9793	14.89	0.13	15.02	60.00	-44.98	QP	
10		10.9793	9.54	0.13	9.67	50.00	-40.33	AVG	
11		19.2930	14.09	0.18	14.27	60.00	-45.73	QP	
12		19.2930	8.93	0.18	9.11	50.00	-40.89	AVG	

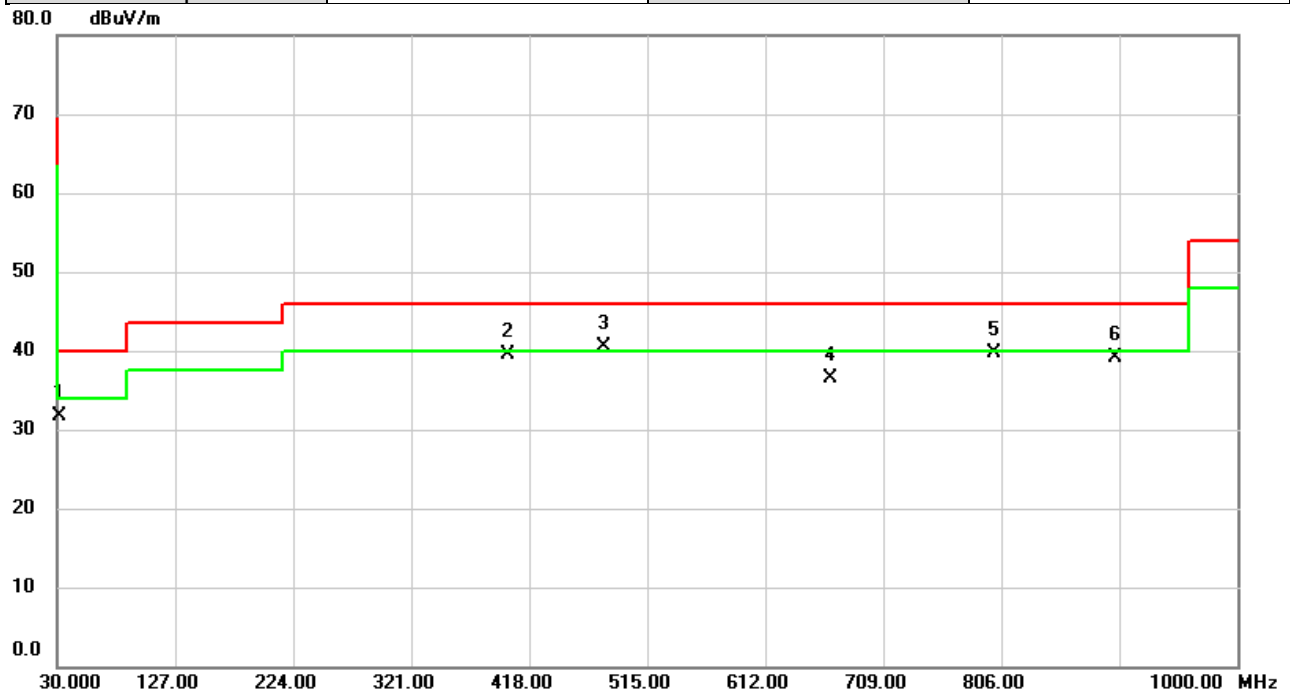
REMARKS:

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

APPENDIX B RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

For External Antenna:

Test Mode	IEEE 802.11g	Test Date	2023/8/24
Test Frequency	2462MHz	Polarization	Vertical
Temp	25°C	Hum.	57%

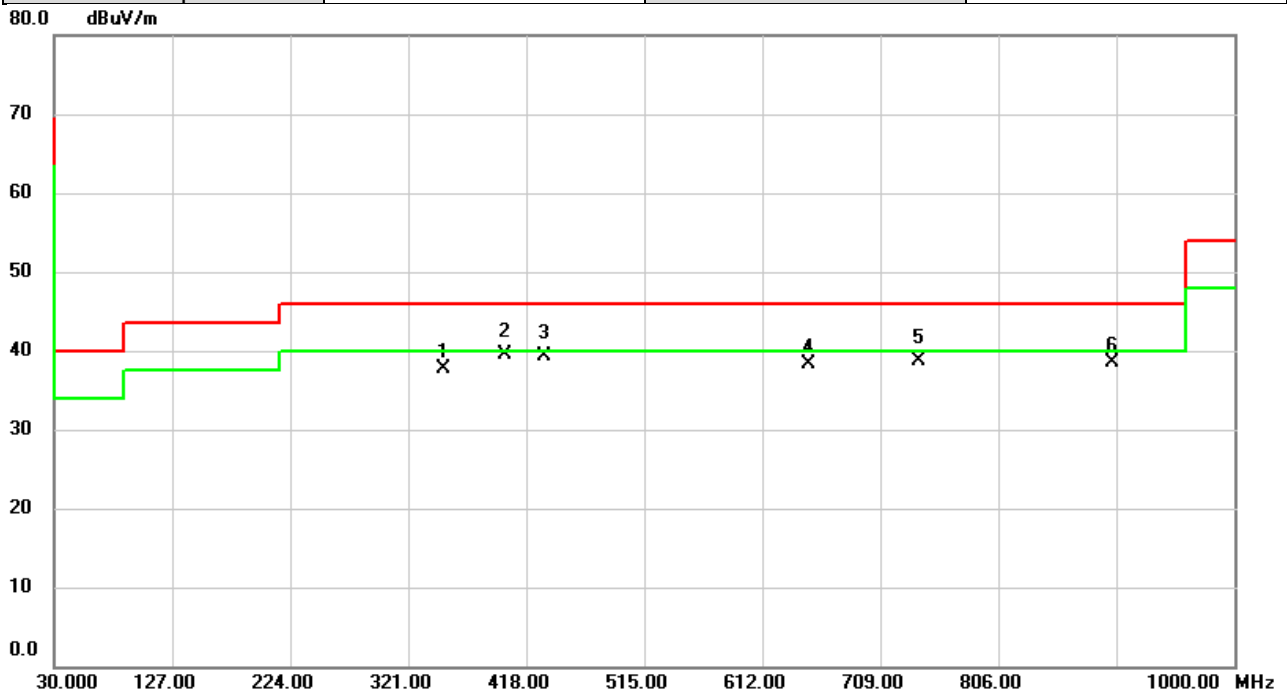


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		32.0370	44.58	-12.96	31.62	40.00	-8.38	QP	
2		399.9903	48.02	-8.55	39.47	46.00	-6.53	QP	
3	*	479.9830	47.17	-6.57	40.60	46.00	-5.40	QP	
4		666.0613	39.34	-2.90	36.44	46.00	-9.56	QP	
5		799.8567	40.52	-0.79	39.73	46.00	-6.27	QP	
6		899.7990	38.60	0.54	39.14	46.00	-6.86	QP	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/8/24
Test Frequency	2462MHz	Polarization	Horizontal
Temp	25°C	Hum.	57%



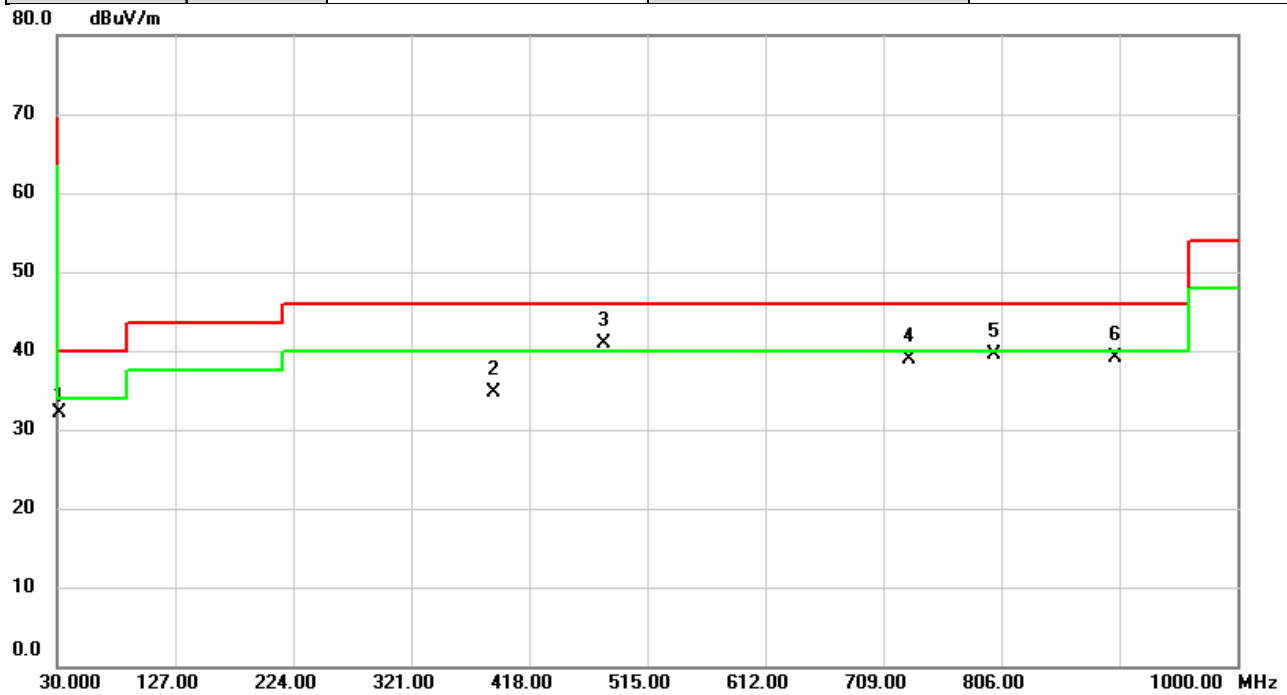
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		350.0030	47.88	-10.12	37.76	46.00	-8.24	peak	
2	*	400.0227	48.10	-8.55	39.55	46.00	-6.45	QP	
3		432.7117	46.80	-7.59	39.21	46.00	-6.79	QP	
4		649.9917	41.33	-3.09	38.24	46.00	-7.76	peak	
5		741.3333	40.35	-1.55	38.80	46.00	-7.20	QP	
6		899.8960	38.06	0.54	38.60	46.00	-7.40	peak	

REMARKS:

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

For Built-in antenna:

Test Mode	IEEE 802.11g	Test Date	2023/8/24
Test Frequency	2462MHz	Polarization	Vertical
Temp	25°C	Hum.	57%

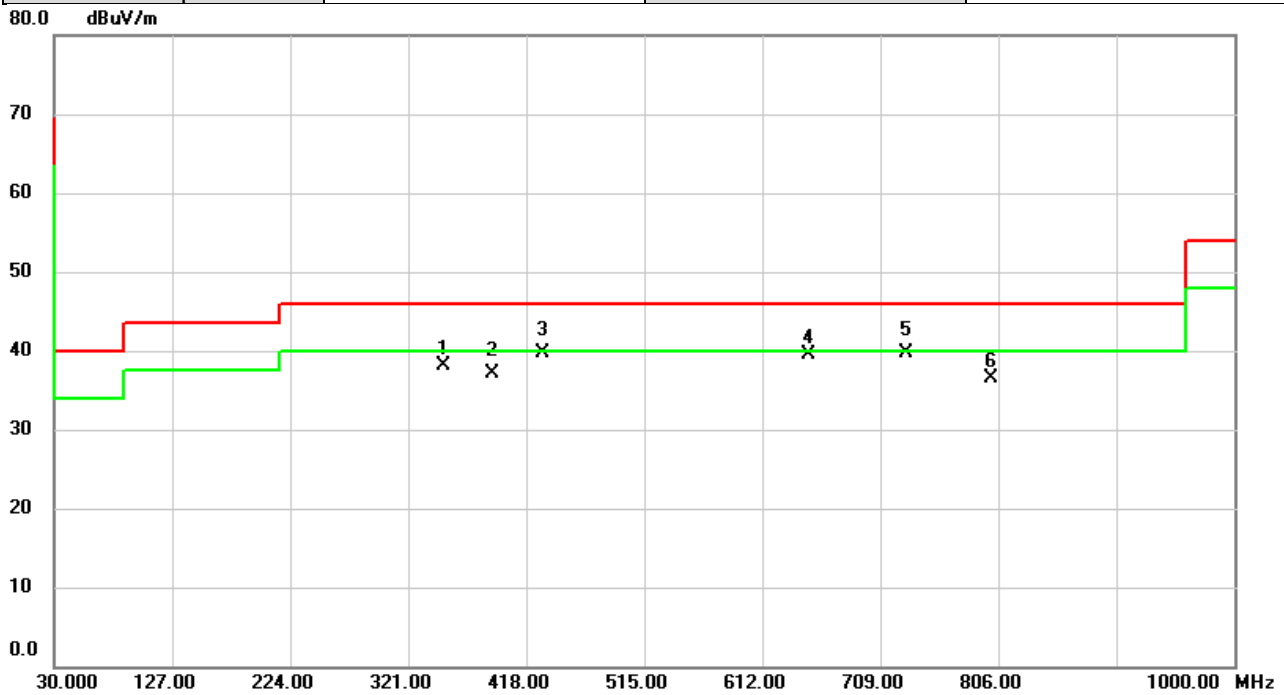


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		32.0693	45.11	-12.95	32.16	40.00	-7.84	peak	
2		389.4497	43.59	-8.89	34.70	46.00	-11.30	QP	
3	*	479.9830	47.50	-6.57	40.93	46.00	-5.07	QP	
4		730.4047	40.71	-1.81	38.90	46.00	-7.10	QP	
5		800.0183	40.34	-0.79	39.55	46.00	-6.45	QP	
6		899.8313	38.58	0.54	39.12	46.00	-6.88	QP	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/8/24
Test Frequency	2462MHz	Polarization	Horizontal
Temp	25°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		350.0030	48.25	-10.12	38.13	46.00	-7.87	peak	
2		390.5167	45.89	-8.85	37.04	46.00	-8.96	QP	
3		431.0627	47.30	-7.63	39.67	46.00	-6.33	QP	
4		650.0240	42.51	-3.09	39.42	46.00	-6.58	peak	
5	*	730.3723	41.52	-1.81	39.71	46.00	-6.29	QP	
6		799.8890	37.22	-0.79	36.43	46.00	-9.57	peak	

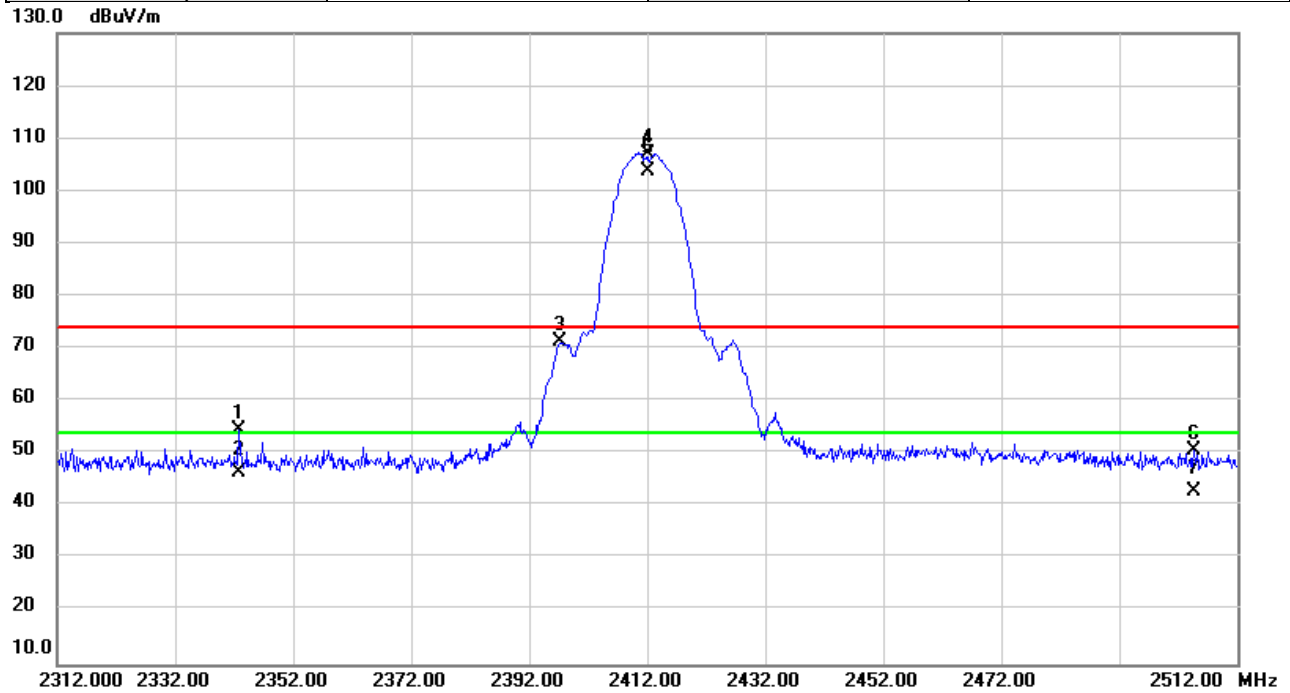
REMARKS:

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

APPENDIX C RADIATED EMISSIONS - ABOVE 1 GHZ

For External Antenna:

Test Mode	IEEE 802.11b	Test Date	2023/6/27
Test Frequency	2412MHz	Polarization	Horizontal
Temp	25°C	Hum.	50%



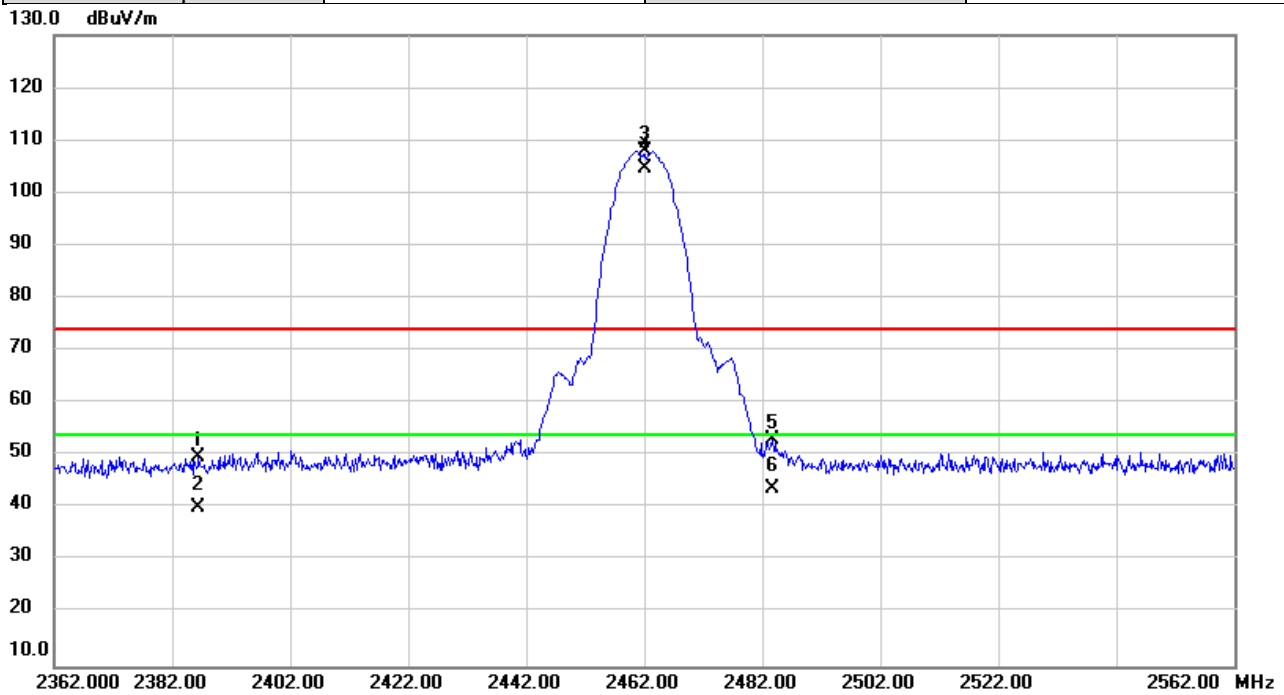
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2342.800	59.99	-5.46	54.53	74.00	-19.47	peak	
2		2342.800	51.81	-5.46	46.35	54.00	-7.65	AVG	
3		2397.287	76.57	-5.37	71.20	74.00	-2.80	peak	No Limit
4	X	2412.000	112.54	-5.34	107.20	74.00	33.20	peak	No Limit
5	*	2412.000	109.00	-5.34	103.66	54.00	49.66	AVG	No Limit
6		2504.747	55.77	-5.18	50.59	74.00	-23.41	peak	
7		2504.747	48.13	-5.18	42.95	54.00	-11.05	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11b	Test Date	2023/6/27
Test Frequency	2462MHz	Polarization	Horizontal
Temp	25°C	Hum.	50%

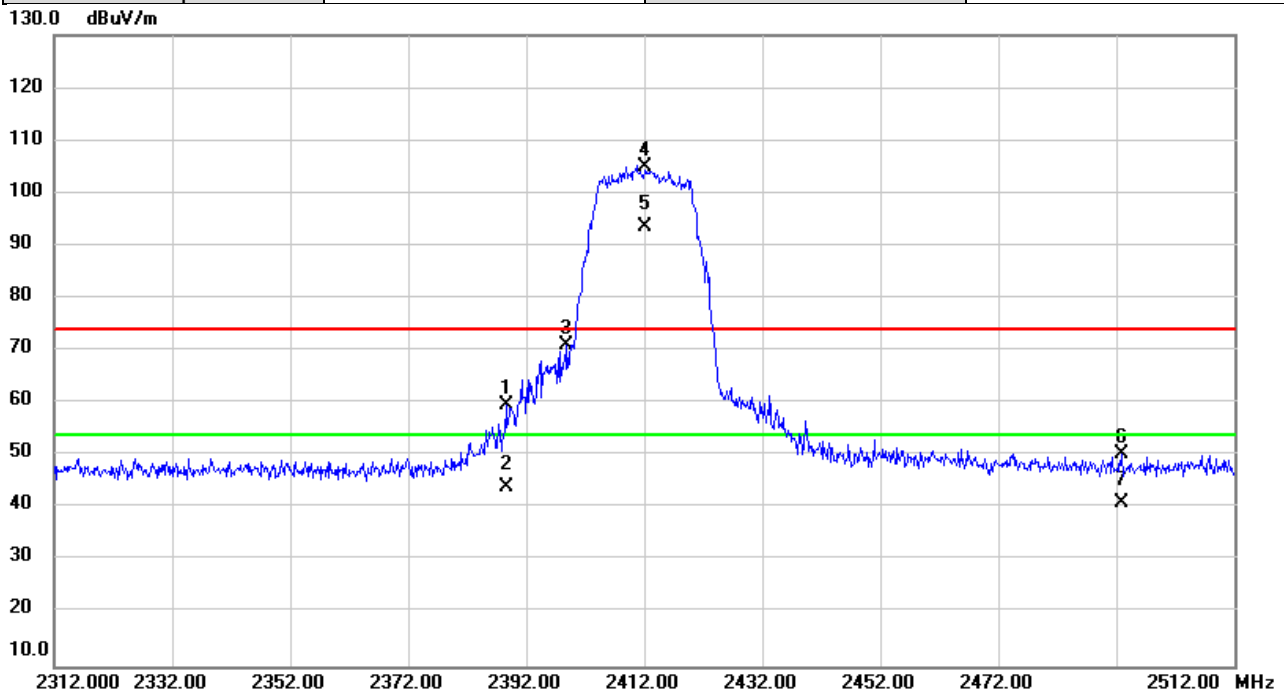


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2386.507	55.08	-5.39	49.69	74.00	-24.31	peak	
2		2386.507	45.69	-5.39	40.30	54.00	-13.70	AVG	
3	X	2462.000	113.16	-5.26	107.90	74.00	33.90	peak	No Limit
4	*	2462.000	109.80	-5.26	104.54	54.00	50.54	AVG	No Limit
5		2483.713	58.37	-5.23	53.14	74.00	-20.86	peak	
6		2483.713	49.09	-5.23	43.86	54.00	-10.14	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/6/27
Test Frequency	2412MHz	Polarization	Horizontal
Temp	25°C	Hum.	50%



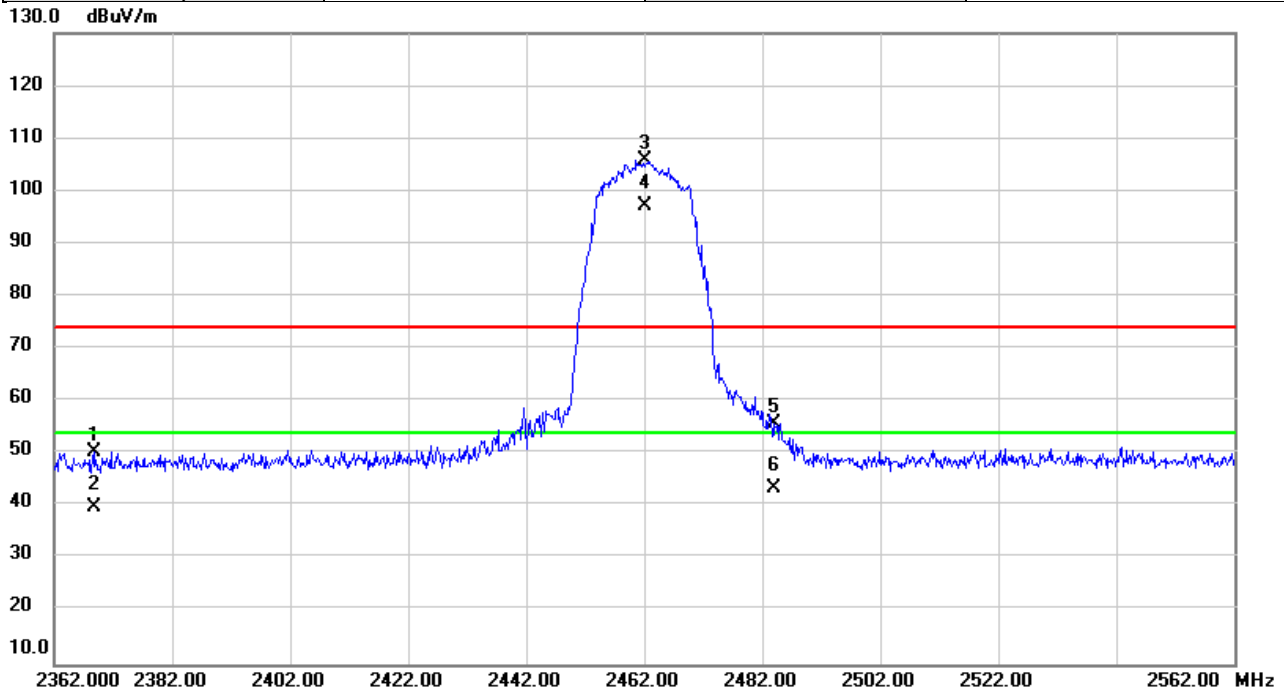
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2388.547	65.05	-5.39	59.66	74.00	-14.34	peak	
2		2388.547	49.50	-5.39	44.11	54.00	-9.89	AVG	
3		2398.847	76.45	-5.37	71.08	74.00	-2.92	peak	No Limit
4	X	2412.000	110.44	-5.34	105.10	74.00	31.10	peak	No Limit
5	*	2412.000	98.86	-5.34	93.52	54.00	39.52	AVG	No Limit
6		2492.860	55.46	-5.20	50.26	74.00	-23.74	peak	
7		2492.860	46.15	-5.20	40.95	54.00	-13.05	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11g	Test Date	2023/6/27
Test Frequency	2462MHz	Polarization	Horizontal
Temp	25°C	Hum.	50%

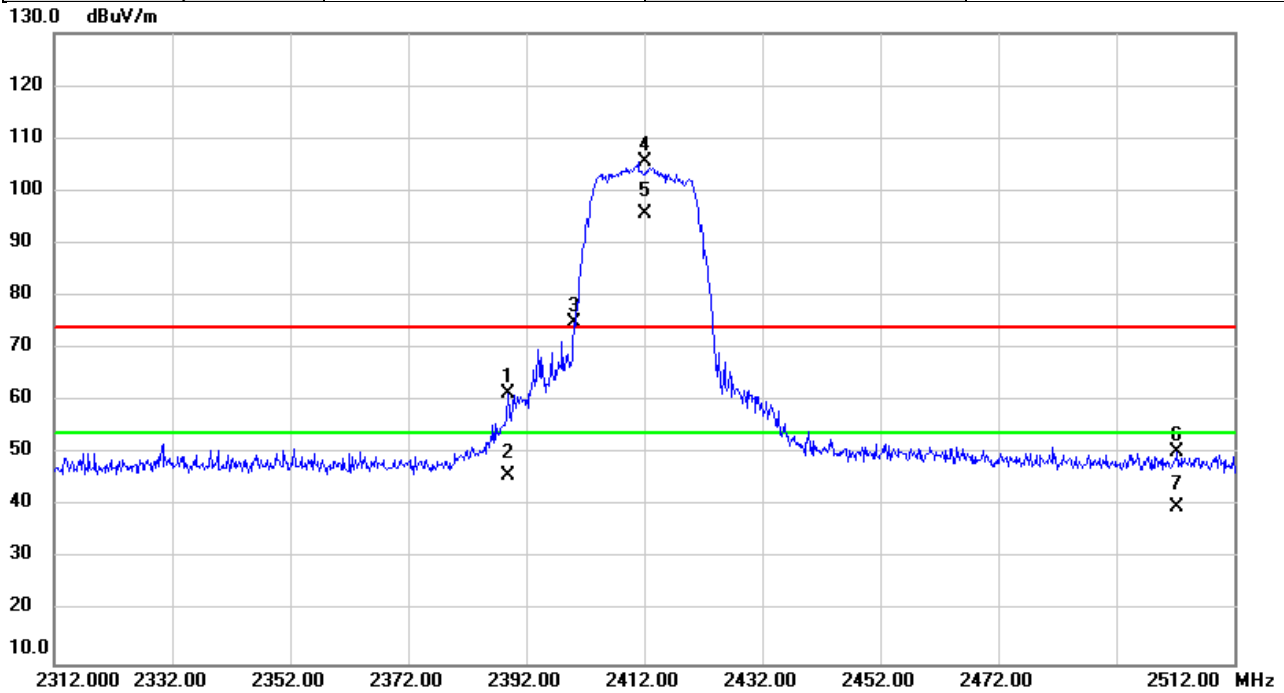


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2368.913	55.79	-5.42	50.37	74.00	-23.63	peak	
2		2368.913	45.24	-5.42	39.82	54.00	-14.18	AVG	
3	X	2462.000	111.09	-5.26	105.83	74.00	31.83	peak	No Limit
4	*	2462.000	102.47	-5.26	97.21	54.00	43.21	AVG	No Limit
5		2484.133	61.05	-5.23	55.82	74.00	-18.18	peak	
6		2484.133	48.79	-5.23	43.56	54.00	-10.44	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/6/27
Test Frequency	2412MHz	Polarization	Horizontal
Temp	25°C	Hum.	50%



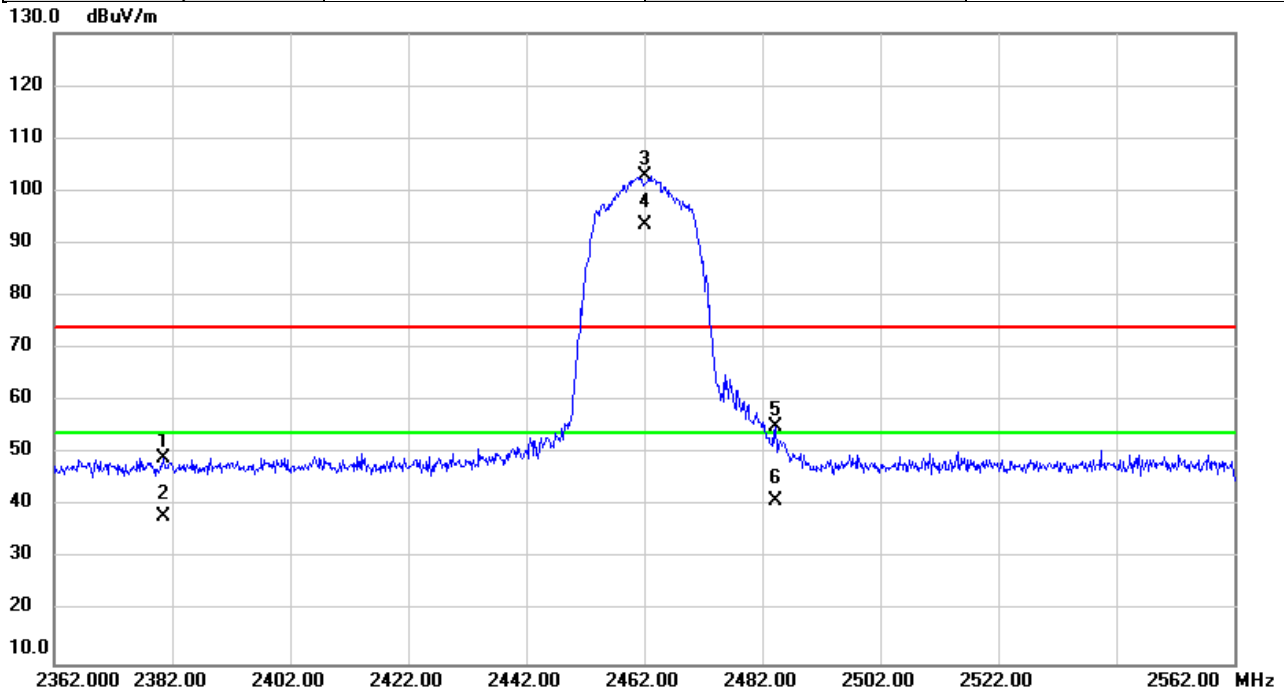
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2388.913	66.80	-5.39	61.41	74.00	-12.59	peak	
2		2388.913	51.20	-5.39	45.81	54.00	-8.19	AVG	
3	X	2400.000	80.29	-5.37	74.92	74.00	0.92	peak	No Limit
4	X	2412.000	110.81	-5.34	105.47	74.00	31.47	peak	No Limit
5	*	2412.000	101.08	-5.34	95.74	54.00	41.74	AVG	No Limit
6		2502.213	55.53	-5.18	50.35	74.00	-23.65	peak	
7		2502.213	44.96	-5.18	39.78	54.00	-14.22	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/6/27
Test Frequency	2412MHz	Polarization	Horizontal
Temp	25°C	Hum.	50%

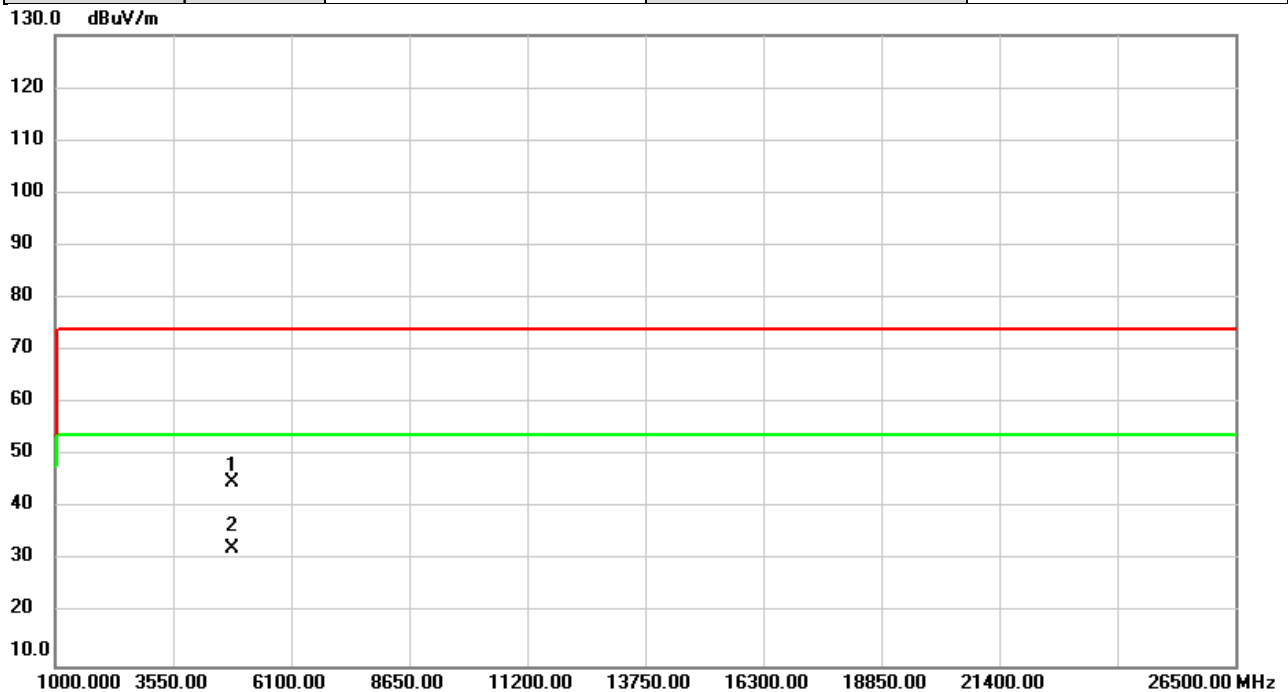


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2380.500	54.43	-5.39	49.04	74.00	-24.96	peak	
2		2380.500	43.34	-5.39	37.95	54.00	-16.05	AVG	
3	X	2462.000	108.10	-5.26	102.84	74.00	28.84	peak	No Limit
4	*	2462.000	98.92	-5.26	93.66	54.00	39.66	AVG	No Limit
5		2484.240	60.46	-5.23	55.23	74.00	-18.77	peak	
6		2484.240	46.31	-5.23	41.08	54.00	-12.92	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/6/27
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	50%

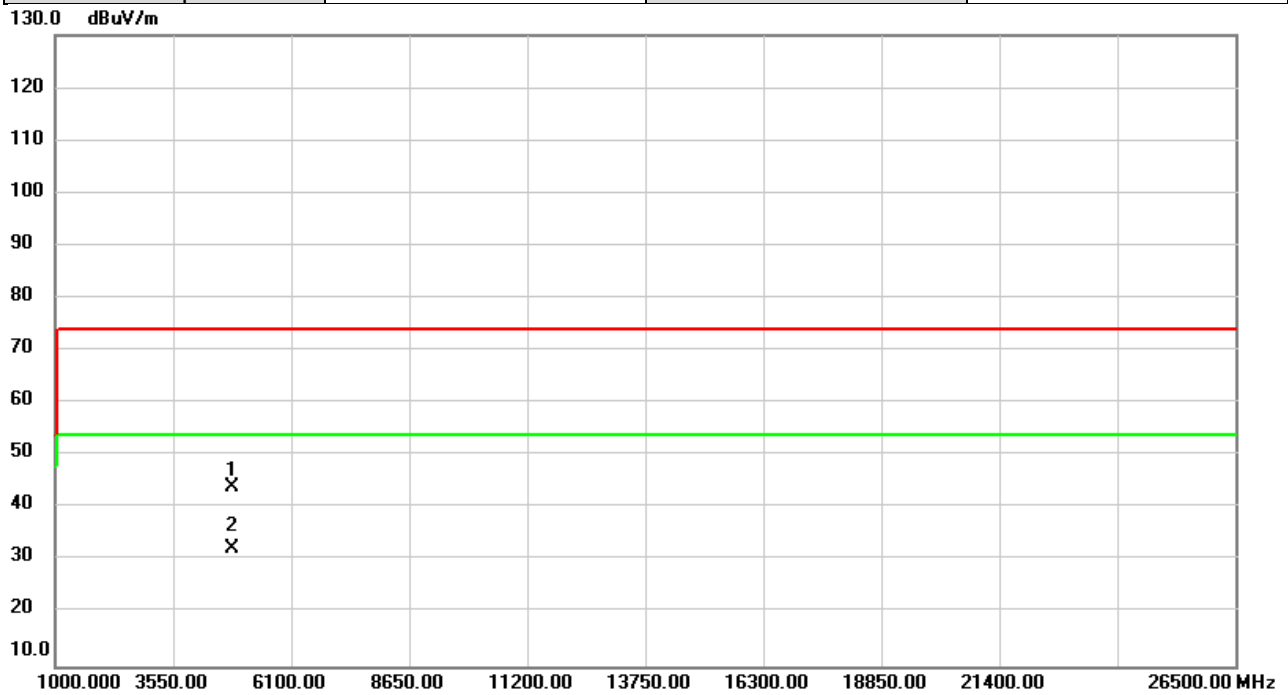


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	44.25	0.59	44.84	74.00	-29.16	peak	
2	*	4824.000	31.86	0.59	32.45	54.00	-21.55	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/6/27
Test Frequency	2412MHz	Polarization	Horizontal
Temp	25°C	Hum.	50%

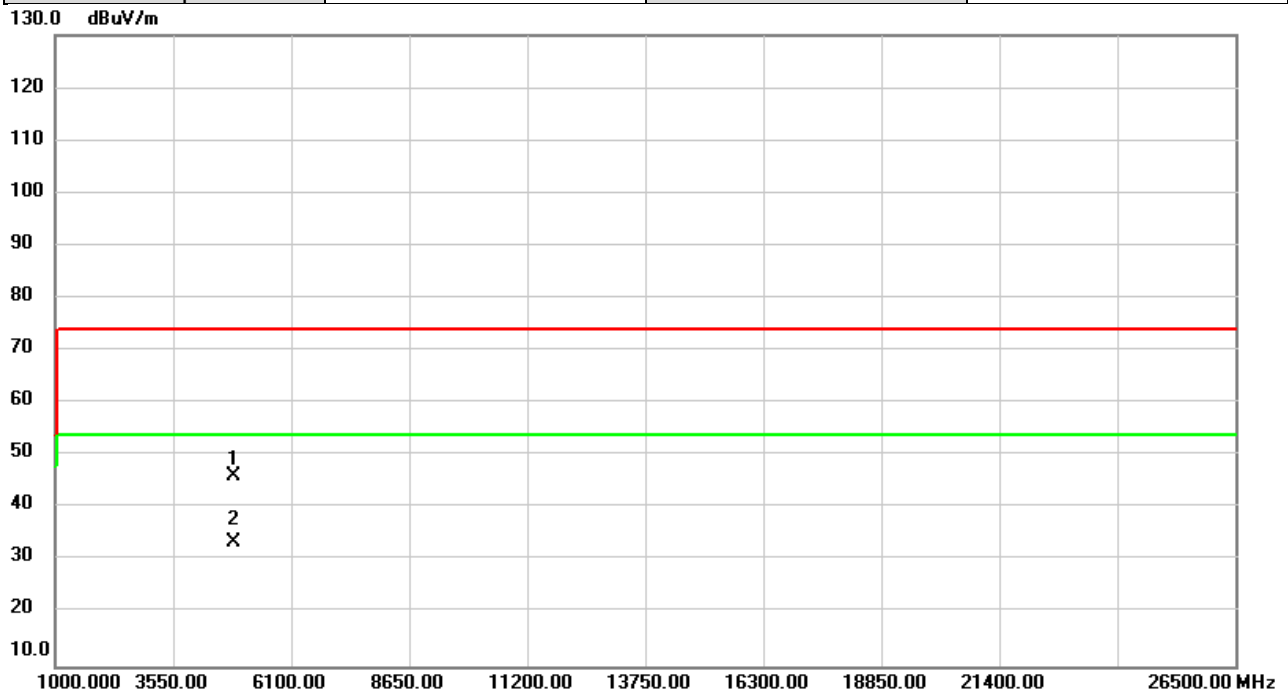


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	43.48	0.59	44.07	74.00	-29.93	peak	
2	*	4824.000	31.80	0.59	32.39	54.00	-21.61	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/6/27
Test Frequency	2437MHz	Polarization	Vertical
Temp	25°C	Hum.	50%

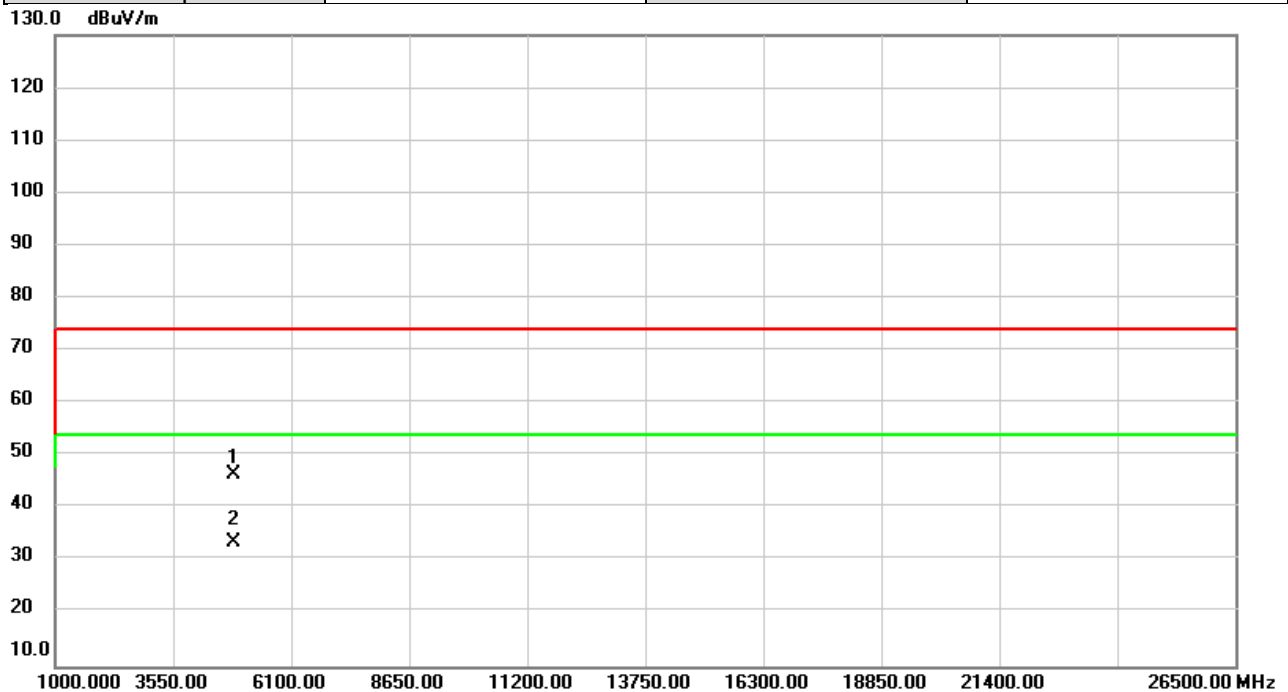


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	45.41	0.74	46.15	74.00	-27.85	peak	
2	*	4874.000	32.69	0.74	33.43	54.00	-20.57	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/6/27
Test Frequency	2437MHz	Polarization	Horizontal
Temp	25°C	Hum.	50%

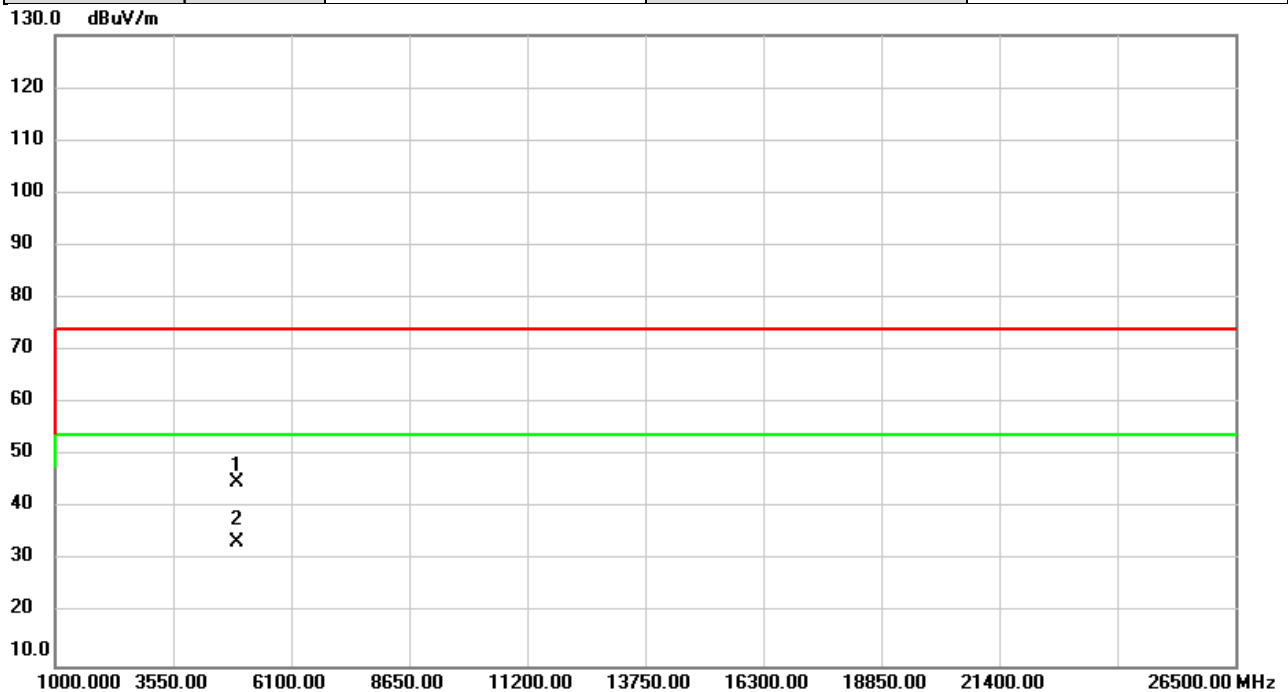


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	45.75	0.74	46.49	74.00	-27.51	peak	
2	*	4874.000	32.78	0.74	33.52	54.00	-20.48	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/6/27
Test Frequency	2462MHz	Polarization	Vertical
Temp	25°C	Hum.	50%

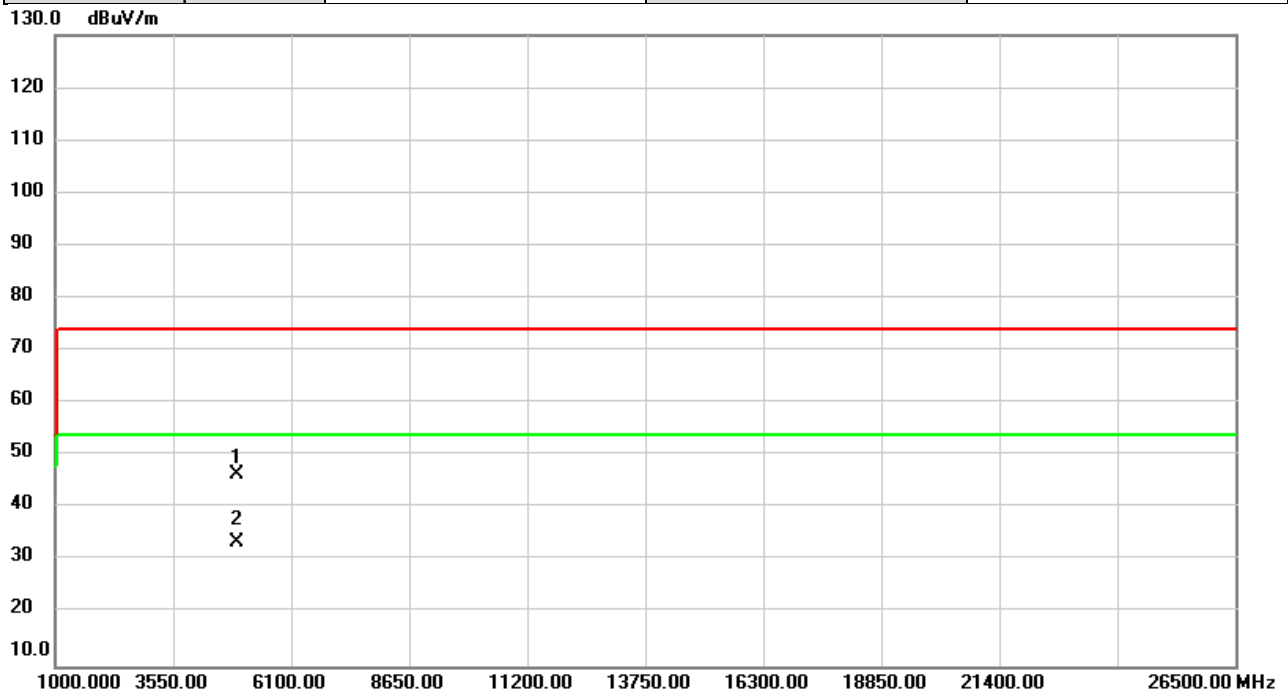


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	44.16	0.89	45.05	74.00	-28.95	peak	
2	*	4924.000	32.67	0.89	33.56	54.00	-20.44	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/6/27
Test Frequency	2462MHz	Polarization	Horizontal
Temp	25°C	Hum.	50%

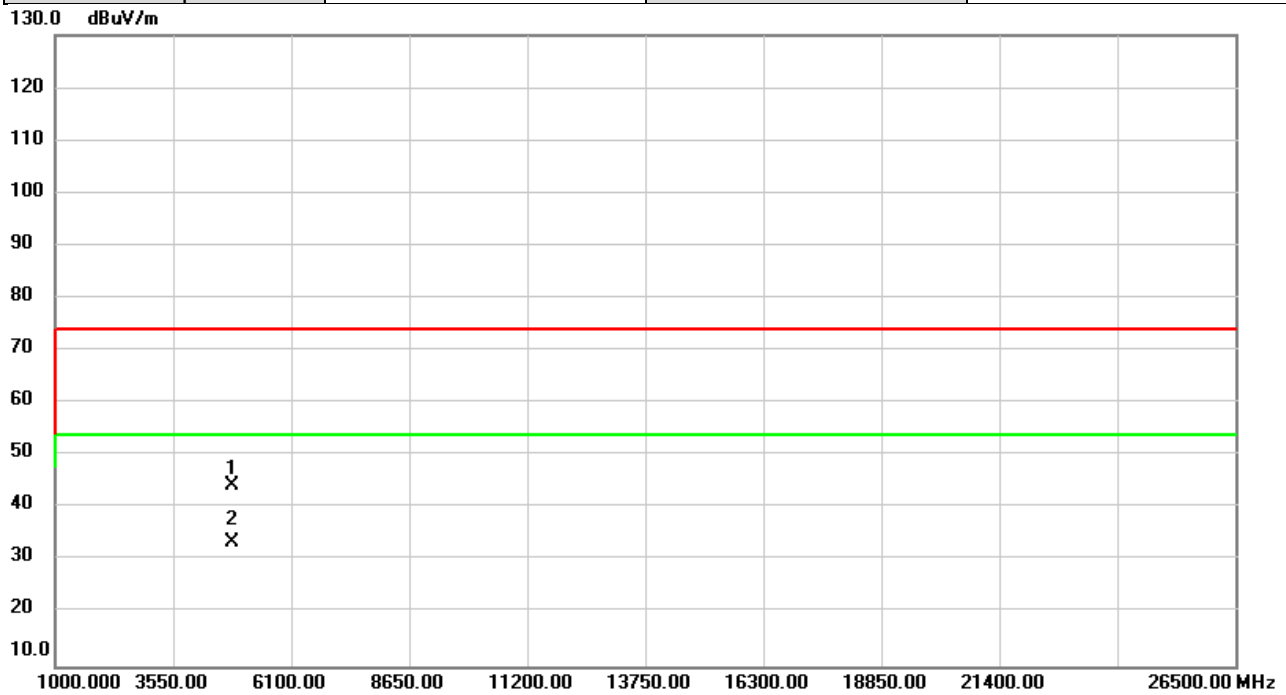


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	45.63	0.89	46.52	74.00	-27.48	peak	
2	*	4924.000	32.60	0.89	33.49	54.00	-20.51	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/6/27
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	50%

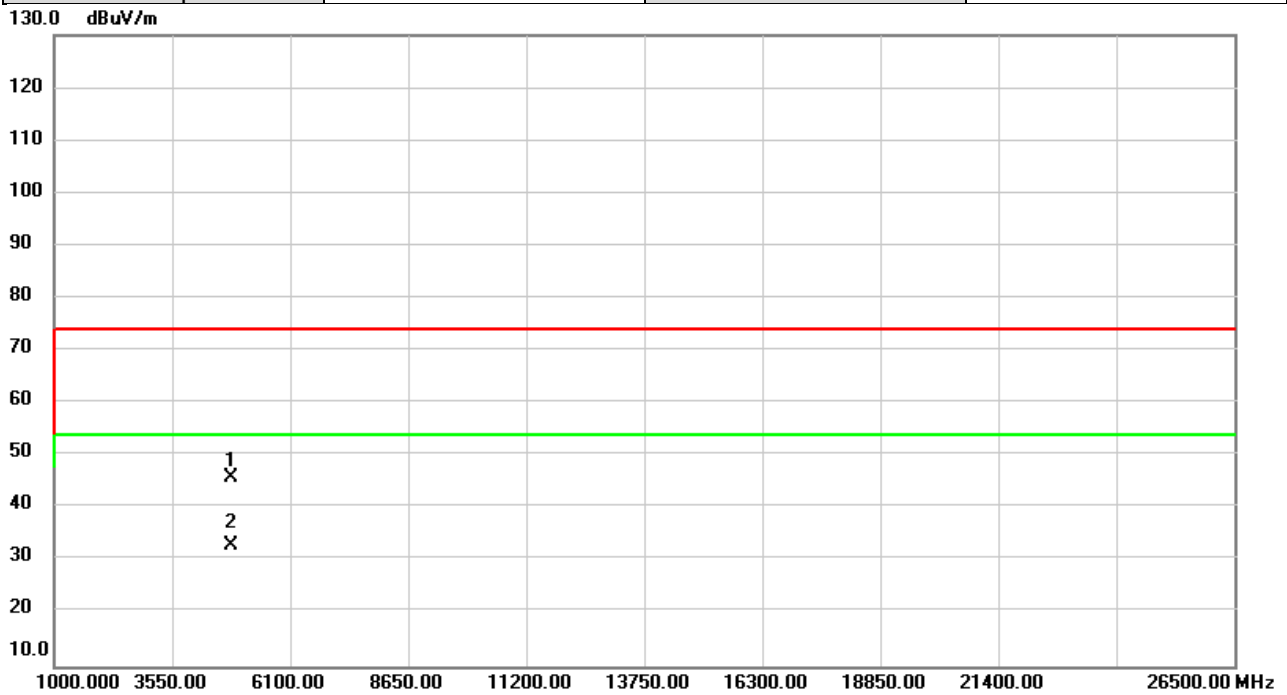


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	43.69	0.59	44.28	74.00	-29.72	peak	
2	*	4824.000	32.89	0.59	33.48	54.00	-20.52	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/6/27
Test Frequency	2412MHz	Polarization	Horizontal
Temp	25°C	Hum.	50%

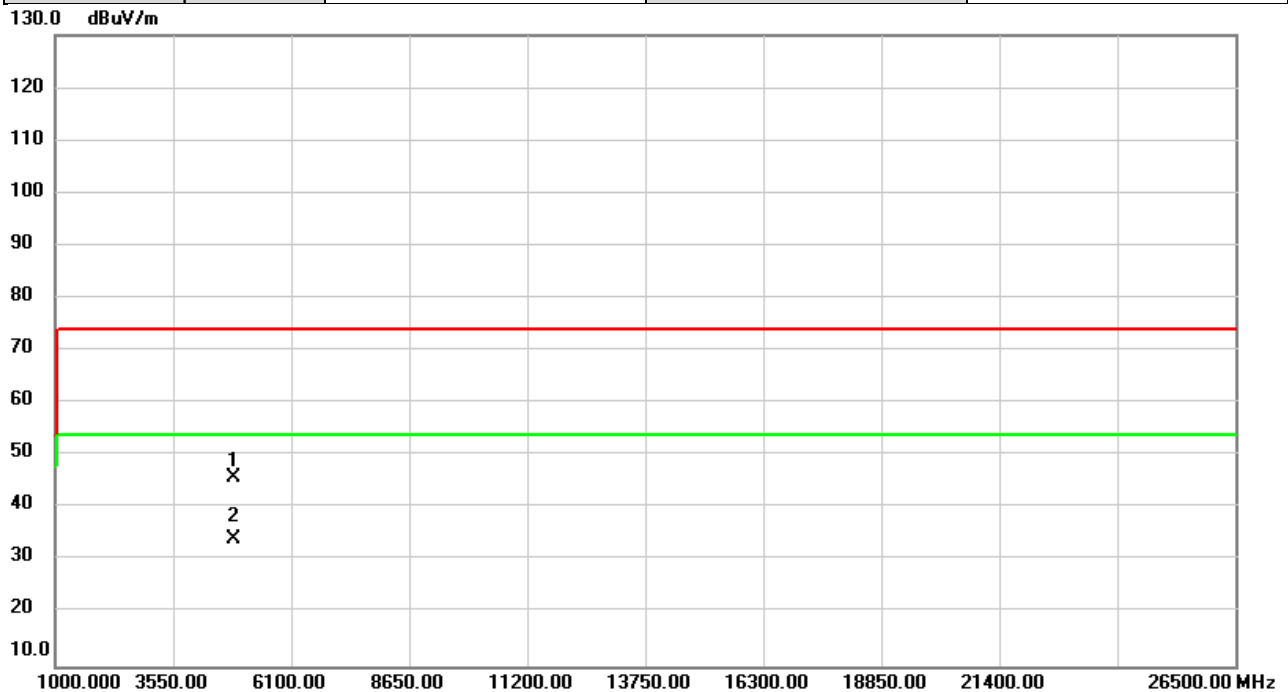


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	45.38	0.59	45.97	74.00	-28.03	peak	
2	*	4824.000	32.48	0.59	33.07	54.00	-20.93	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/6/27
Test Frequency	2437MHz	Polarization	Vertical
Temp	25°C	Hum.	50%

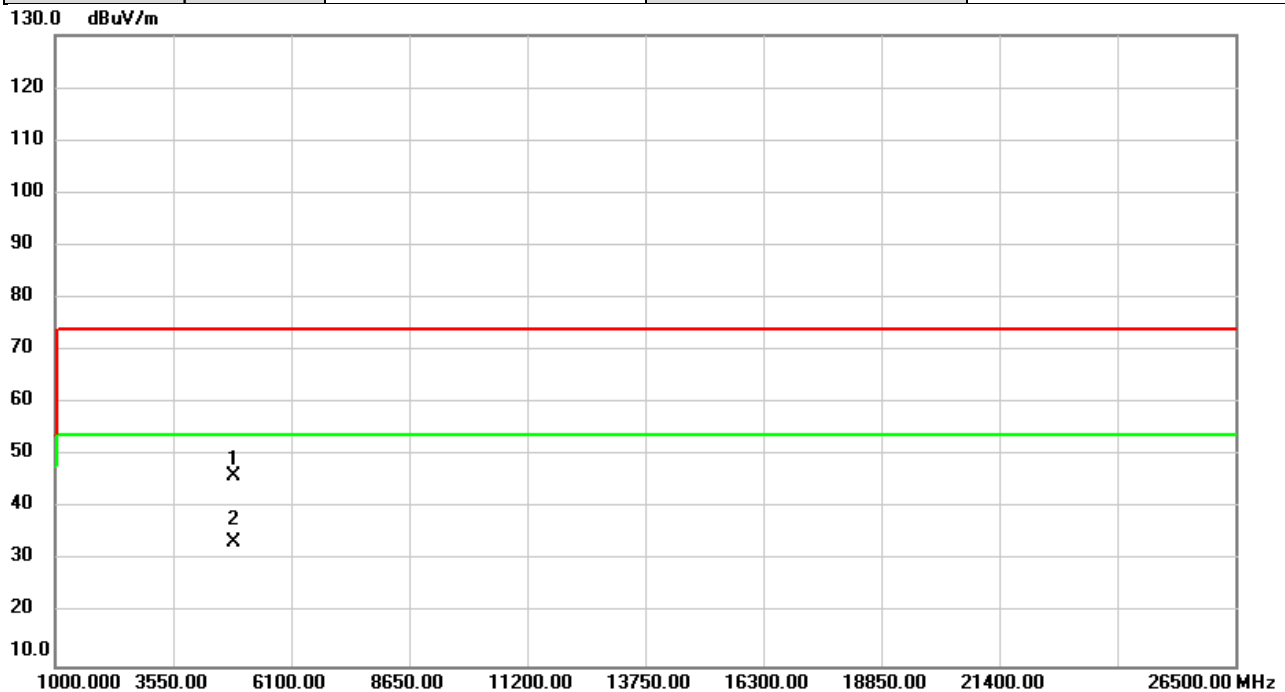


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	44.99	0.74	45.73	74.00	-28.27	peak	
2	*	4874.000	33.36	0.74	34.10	54.00	-19.90	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/6/27
Test Frequency	2437MHz	Polarization	Horizontal
Temp	25°C	Hum.	50%

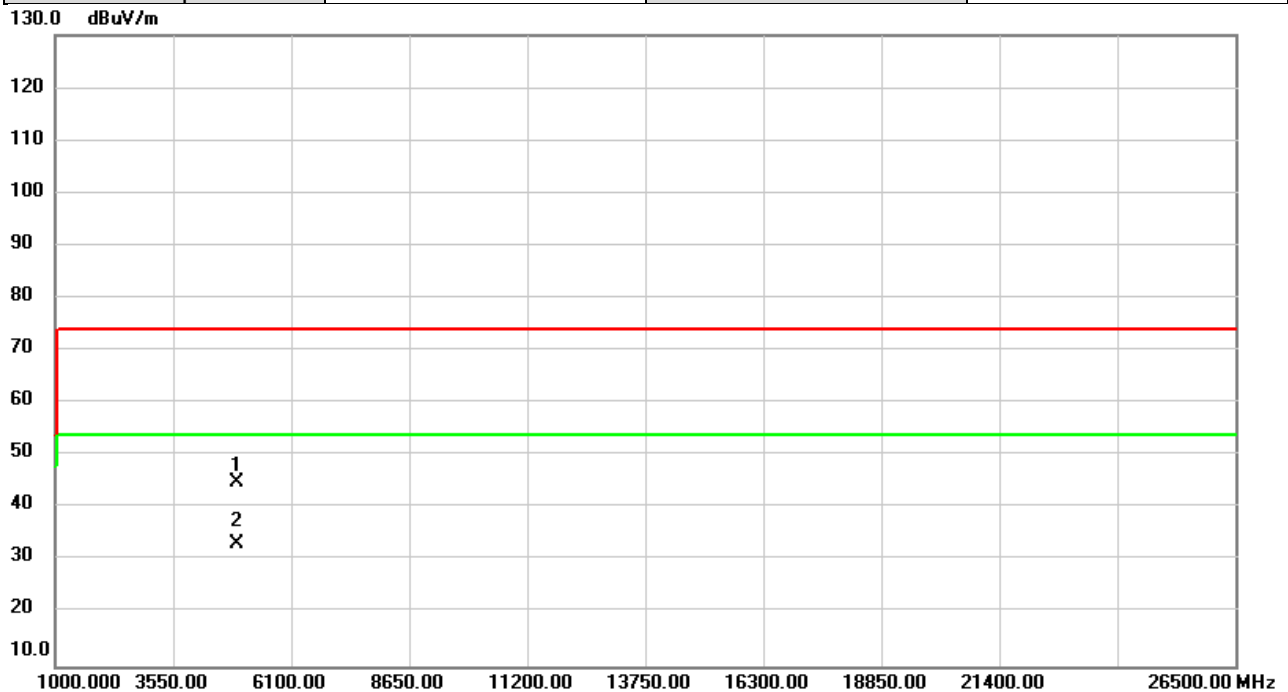


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	45.47	0.74	46.21	74.00	-27.79	peak	
2	*	4874.000	32.87	0.74	33.61	54.00	-20.39	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/6/27
Test Frequency	2462MHz	Polarization	Vertical
Temp	25°C	Hum.	50%

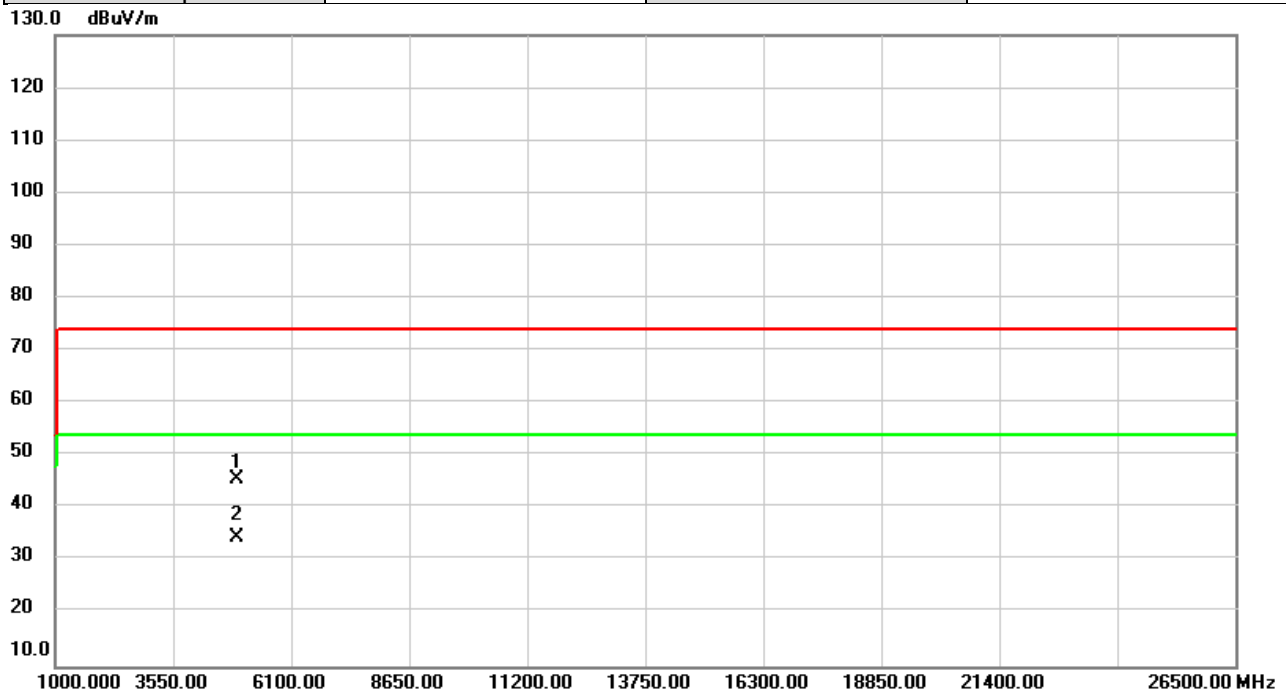


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	43.92	0.89	44.81	74.00	-29.19	peak	
2	*	4924.000	32.47	0.89	33.36	54.00	-20.64	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/6/27
Test Frequency	2462MHz	Polarization	Horizontal
Temp	25°C	Hum.	50%

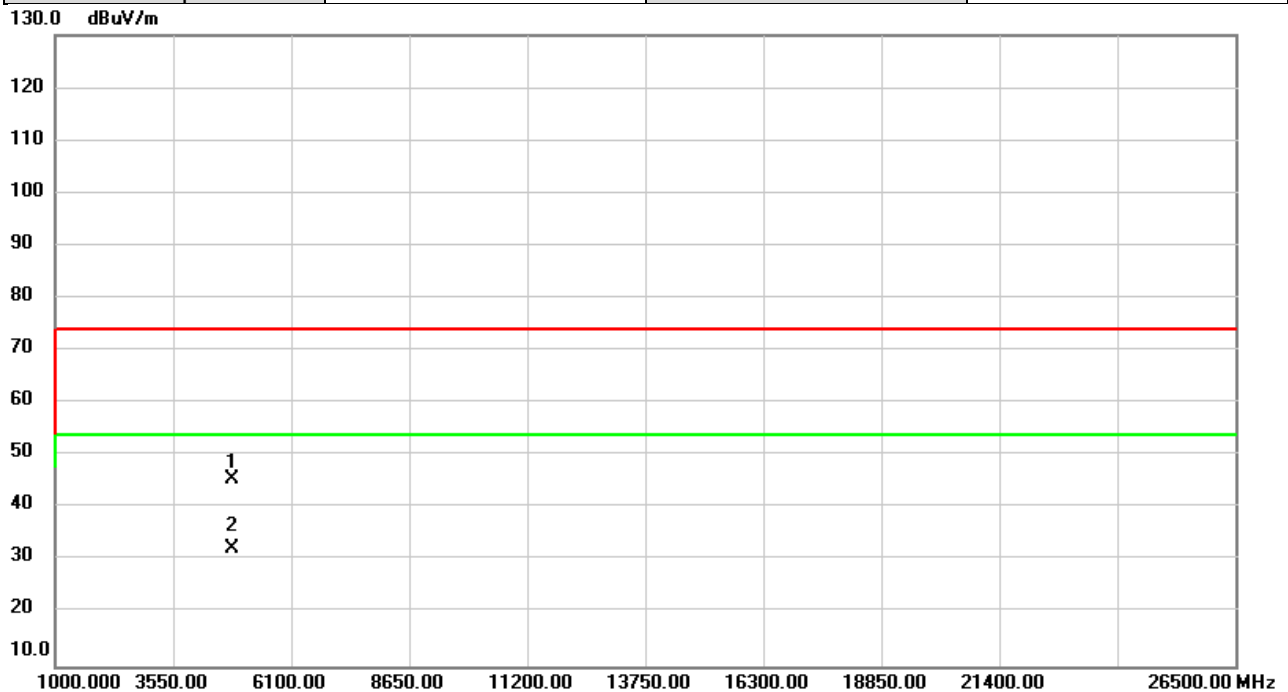


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	44.68	0.89	45.57	74.00	-28.43	peak	
2	*	4924.000	33.45	0.89	34.34	54.00	-19.66	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/6/27
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	50%

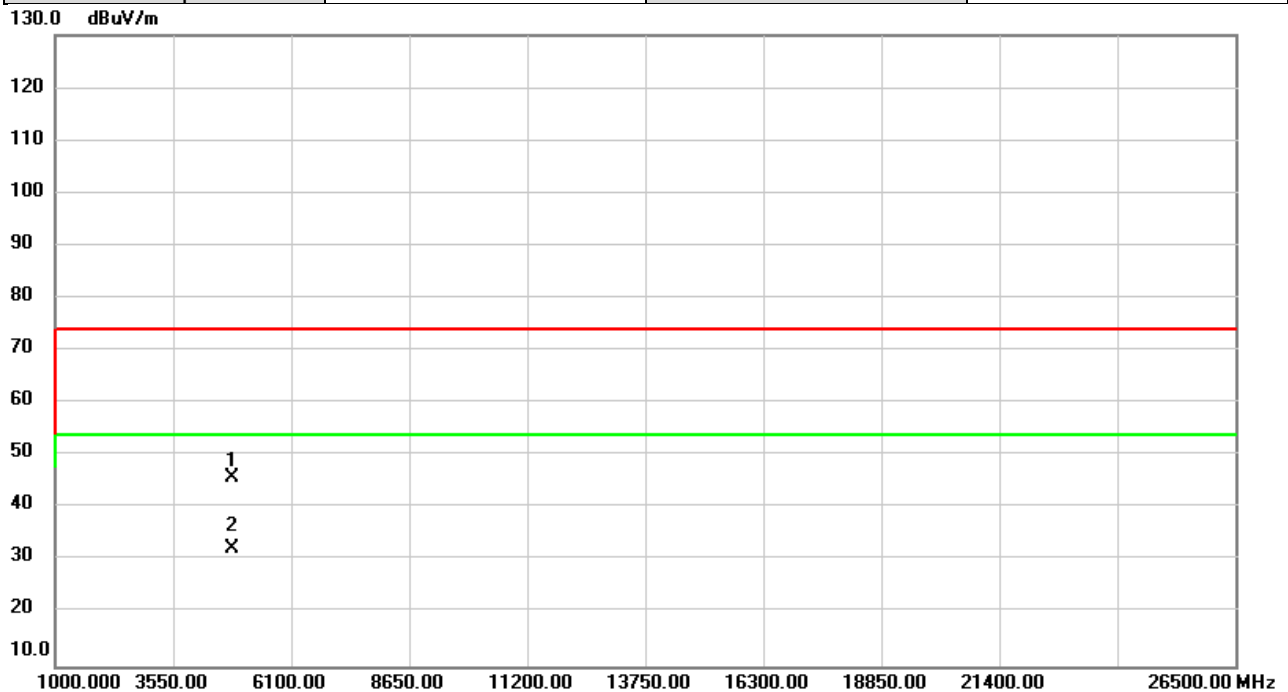


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	44.85	0.59	45.44	74.00	-28.56	peak	
2	*	4824.000	31.73	0.59	32.32	54.00	-21.68	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/6/27
Test Frequency	2412MHz	Polarization	Horizontal
Temp	25°C	Hum.	50%

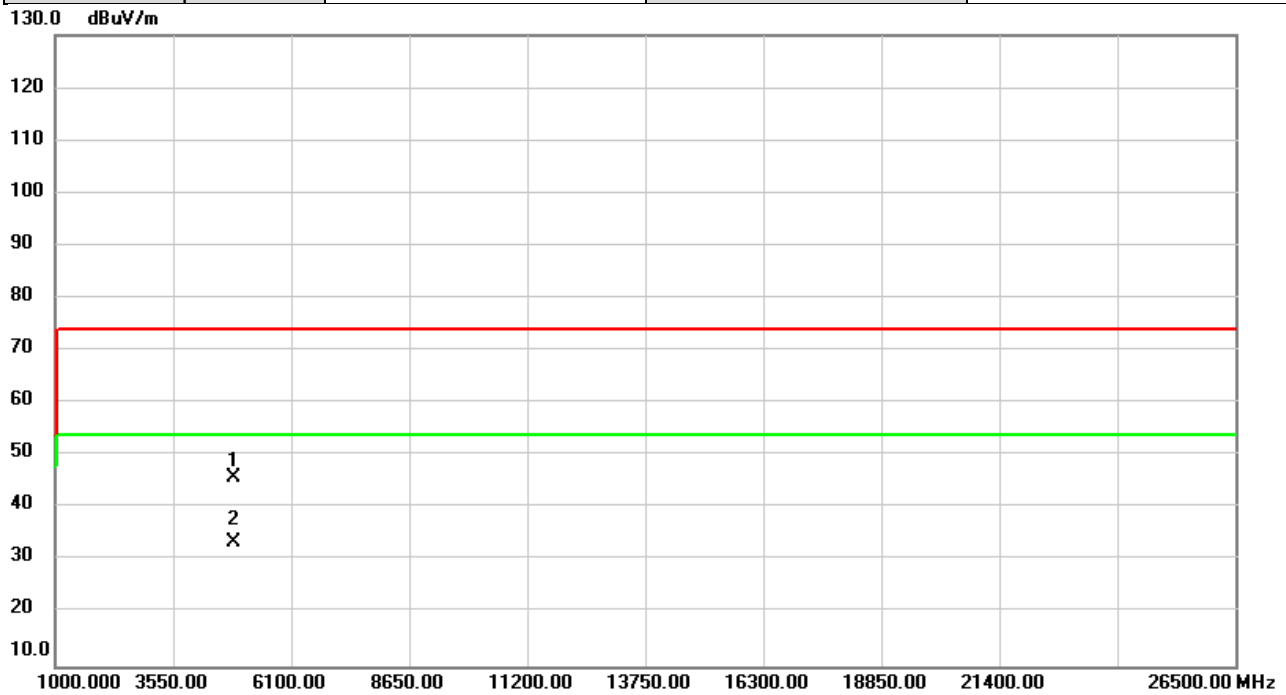


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	45.37	0.59	45.96	74.00	-28.04	peak	
2	*	4824.000	31.67	0.59	32.26	54.00	-21.74	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/6/27
Test Frequency	2437MHz	Polarization	Horizontal
Temp	25°C	Hum.	50%

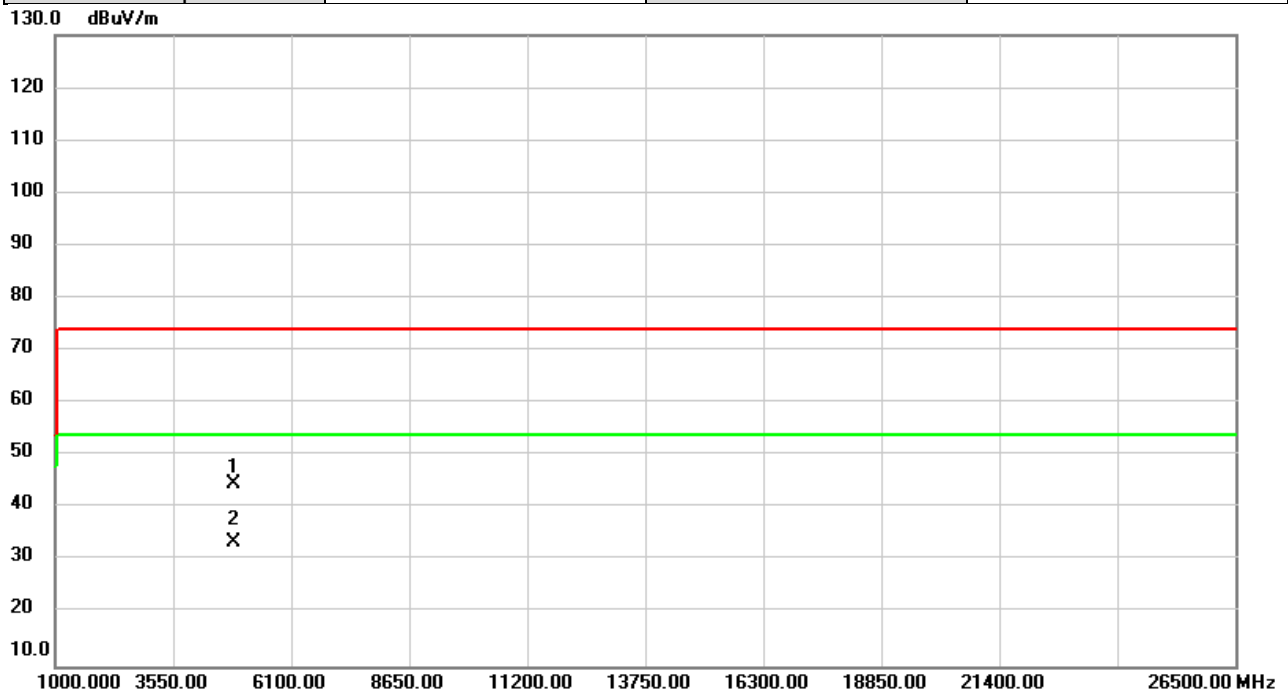


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	45.02	0.74	45.76	74.00	-28.24	peak	
2	*	4874.000	32.77	0.74	33.51	54.00	-20.49	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/6/27
Test Frequency	2437MHz	Polarization	Horizontal
Temp	25°C	Hum.	50%

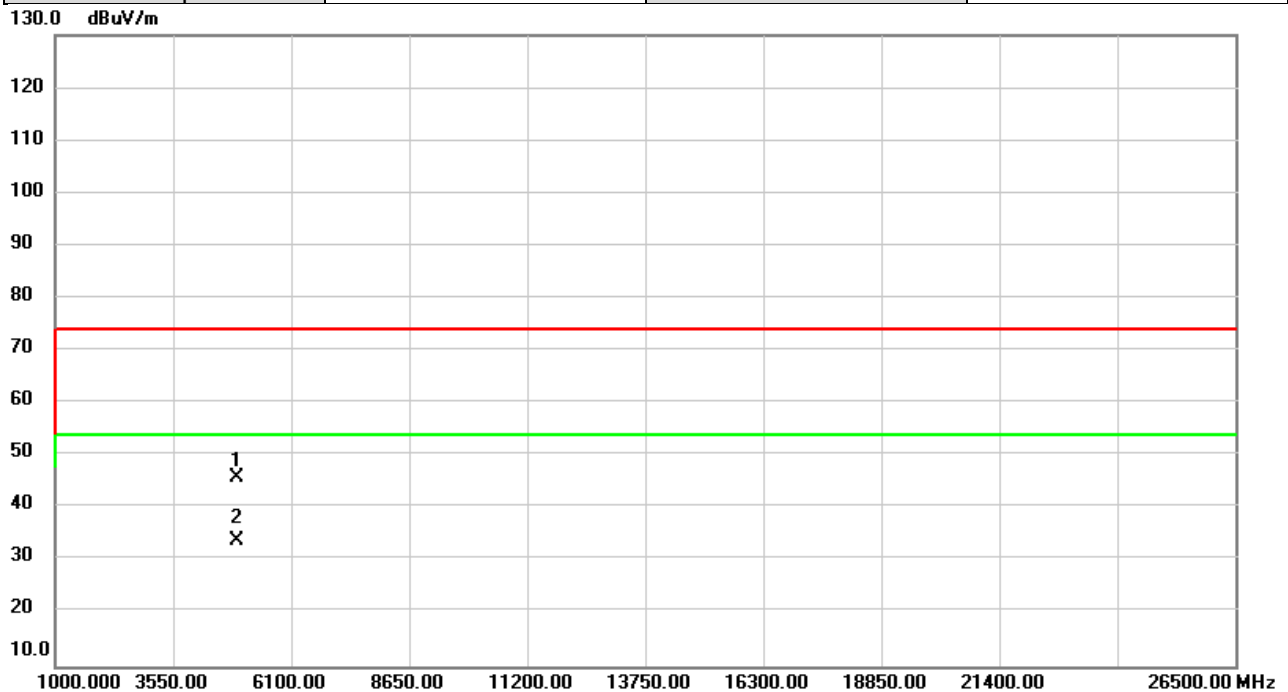


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	43.85	0.74	44.59	74.00	-29.41	peak	
2	*	4874.000	32.89	0.74	33.63	54.00	-20.37	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/6/27
Test Frequency	2462MHz	Polarization	Vertical
Temp	25°C	Hum.	50%

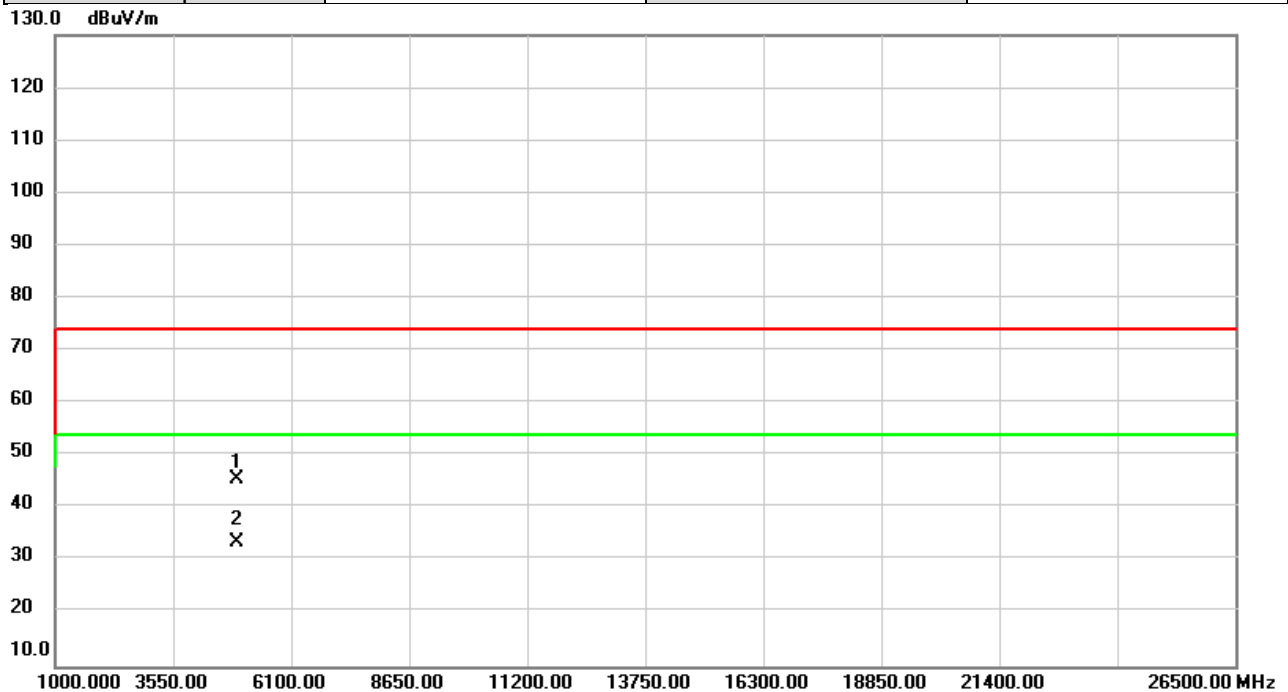


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	44.82	0.89	45.71	74.00	-28.29	peak	
2	*	4924.000	32.82	0.89	33.71	54.00	-20.29	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/6/27
Test Frequency	2462MHz	Polarization	Horizontal
Temp	25°C	Hum.	50%



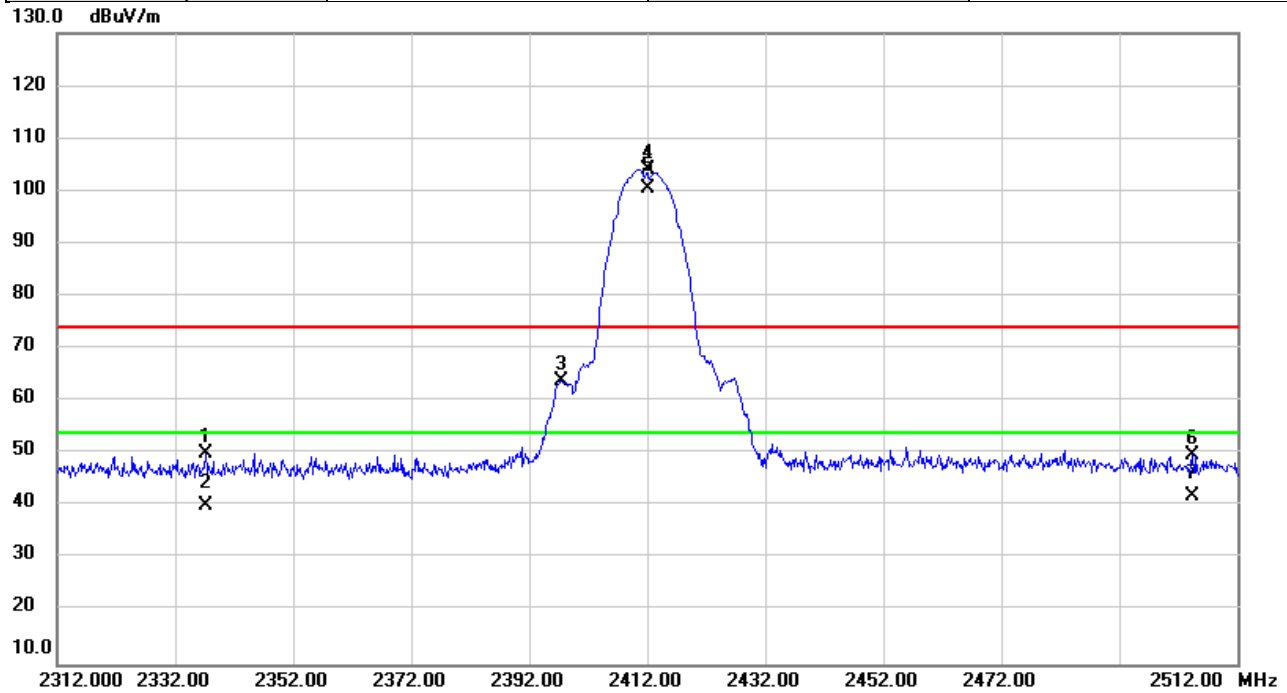
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	44.56	0.89	45.45	74.00	-28.55	peak	
2	*	4924.000	32.77	0.89	33.66	54.00	-20.34	AVG	

REMARKS:

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

For Built-in antenna:

Test Mode	IEEE 802.11b	Test Date	2023/6/26
Test Frequency	2412MHz	Polarization	Horizontal
Temp	24°C	Hum.	58%

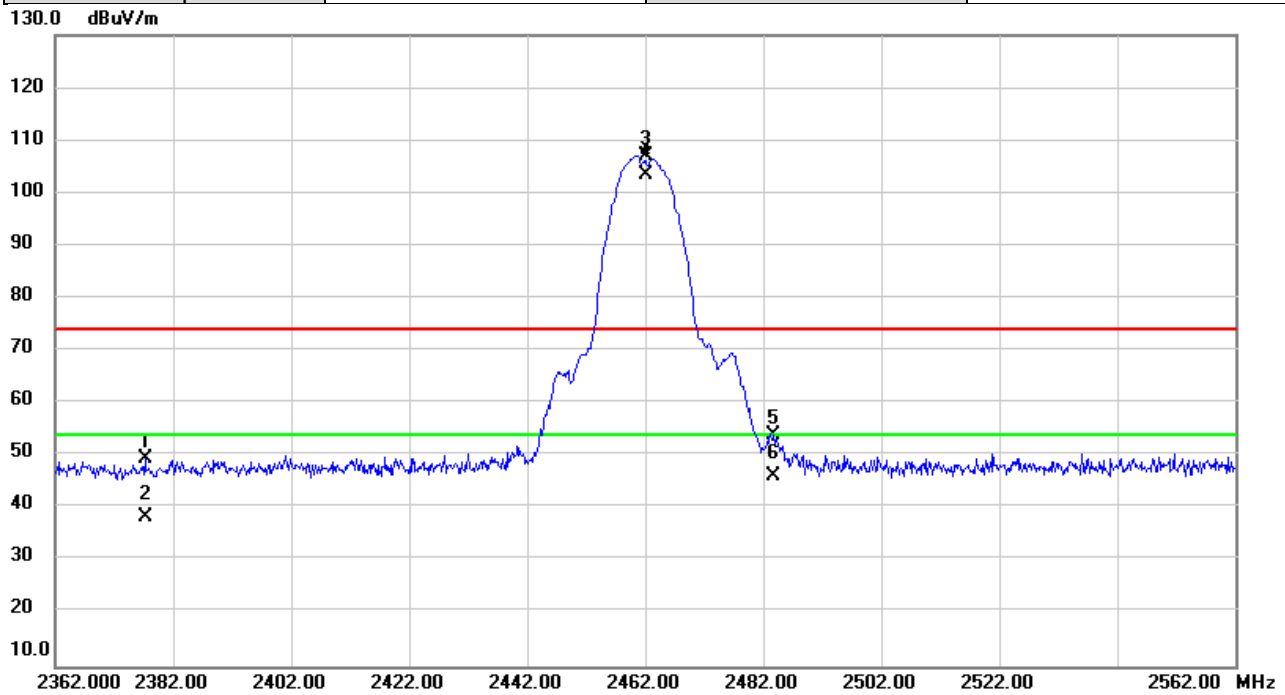


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2337.153	55.57	-5.48	50.09	74.00	-23.91	peak	
2		2337.153	45.61	-5.48	40.13	54.00	-13.87	AVG	
3		2397.447	69.24	-5.37	63.87	74.00	-10.13	peak	No Limit
4	X	2412.000	109.46	-5.34	104.12	74.00	30.12	peak	No Limit
5	*	2412.000	105.92	-5.34	100.58	54.00	46.58	AVG	No Limit
6		2504.360	54.85	-5.18	49.67	74.00	-24.33	peak	
7		2504.360	47.02	-5.18	41.84	54.00	-12.16	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/6/26
Test Frequency	2462MHz	Polarization	Horizontal
Temp	24°C	Hum.	58%

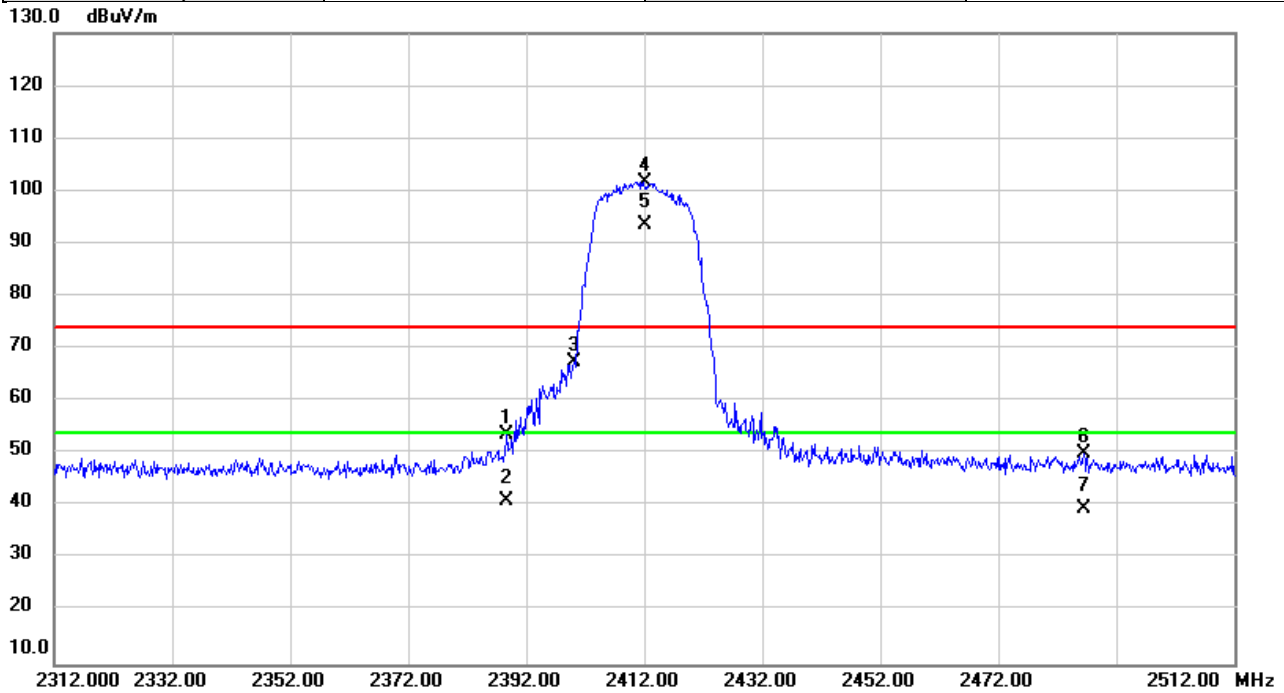


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2377.340	54.80	-5.41	49.39	74.00	-24.61	peak	
2		2377.340	43.63	-5.41	38.22	54.00	-15.78	AVG	
3	X	2462.000	112.33	-5.26	107.07	74.00	33.07	peak	No Limit
4	*	2462.000	108.78	-5.26	103.52	54.00	49.52	AVG	No Limit
5		2483.840	59.25	-5.23	54.02	74.00	-19.98	peak	
6		2483.840	51.49	-5.23	46.26	54.00	-7.74	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/6/26
Test Frequency	2412MHz	Polarization	Horizontal
Temp	24°C	Hum.	58%



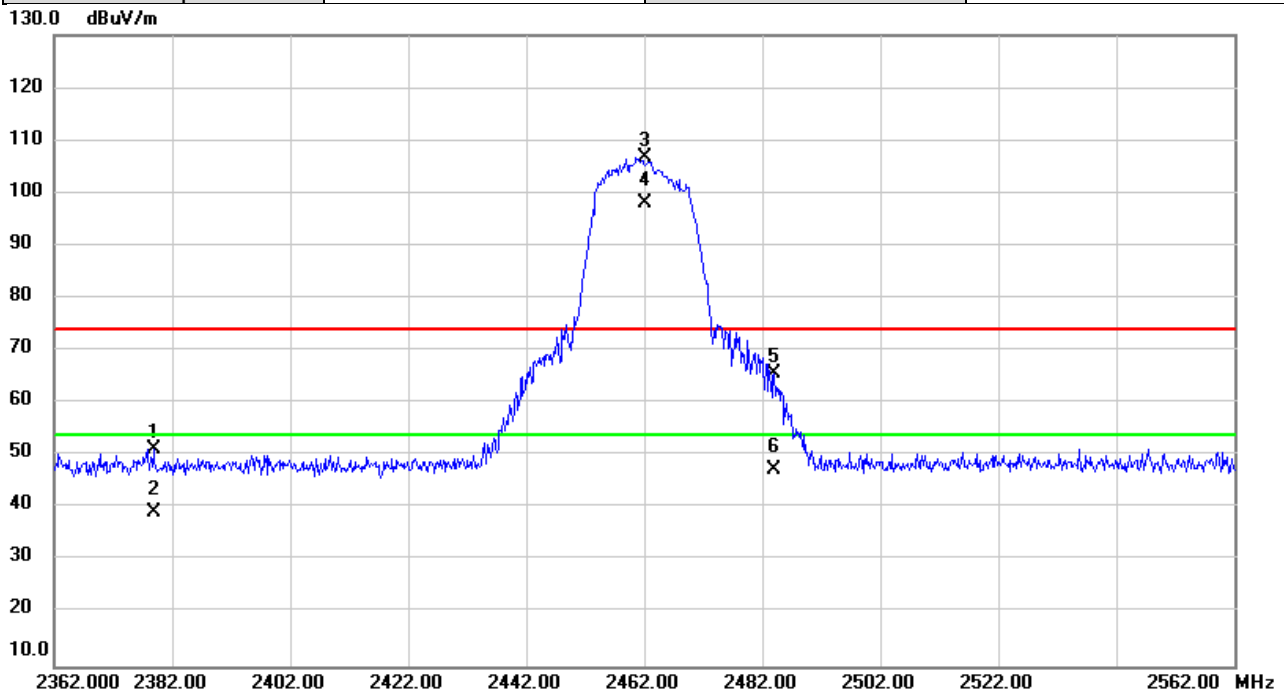
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2388.700	59.03	-5.39	53.64	74.00	-20.36	peak	
2		2388.700	46.47	-5.39	41.08	54.00	-12.92	AVG	
3		2400.000	72.70	-5.37	67.33	74.00	-6.67	peak	No Limit
4	X	2412.000	107.04	-5.34	101.70	74.00	27.70	peak	No Limit
5	*	2412.000	98.86	-5.34	93.52	54.00	39.52	AVG	No Limit
6		2486.500	55.33	-5.21	50.12	74.00	-23.88	peak	
7		2486.500	44.65	-5.21	39.44	54.00	-14.56	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11g	Test Date	2023/6/26
Test Frequency	2462MHz	Polarization	Horizontal
Temp	24°C	Hum.	58%

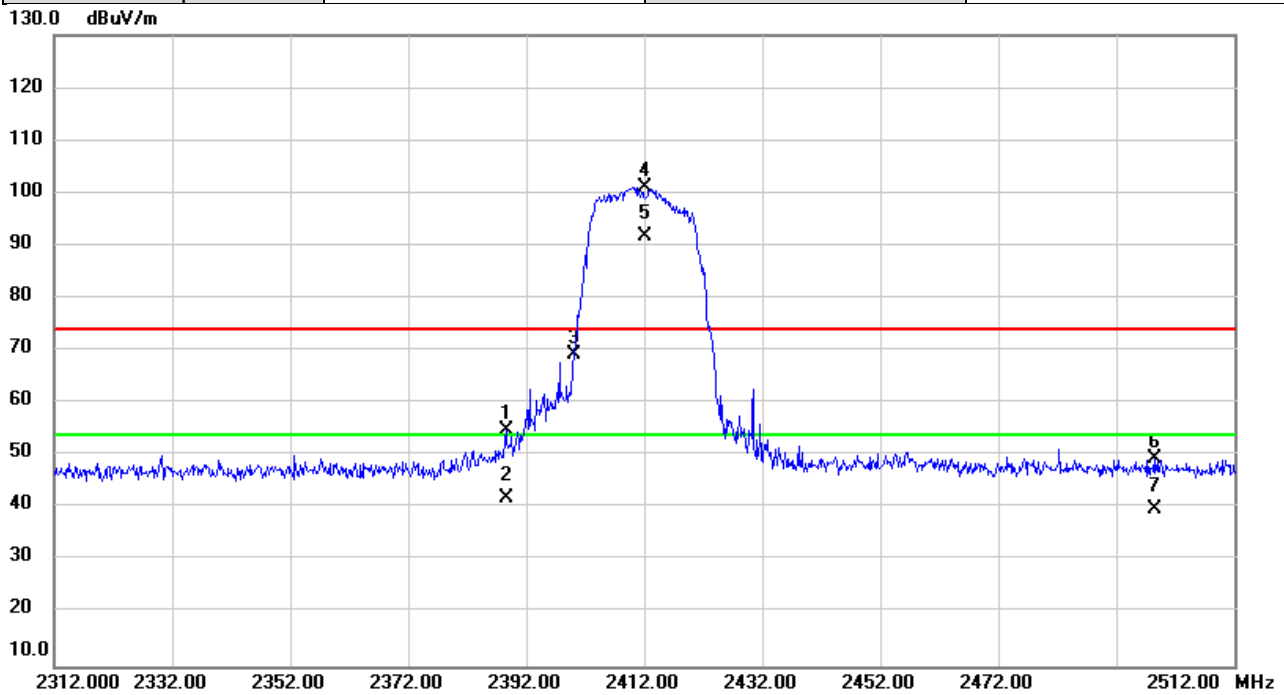


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2378.933	56.55	-5.40	51.15	74.00	-22.85	peak	
2		2378.933	44.61	-5.40	39.21	54.00	-14.79	AVG	
3	X	2462.000	112.12	-5.26	106.86	74.00	32.86	peak	No Limit
4	*	2462.000	103.24	-5.26	97.98	54.00	43.98	AVG	No Limit
5		2484.120	70.89	-5.23	65.66	74.00	-8.34	peak	
6		2484.120	52.47	-5.23	47.24	54.00	-6.76	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/6/26
Test Frequency	2412MHz	Polarization	Horizontal
Temp	24°C	Hum.	58%



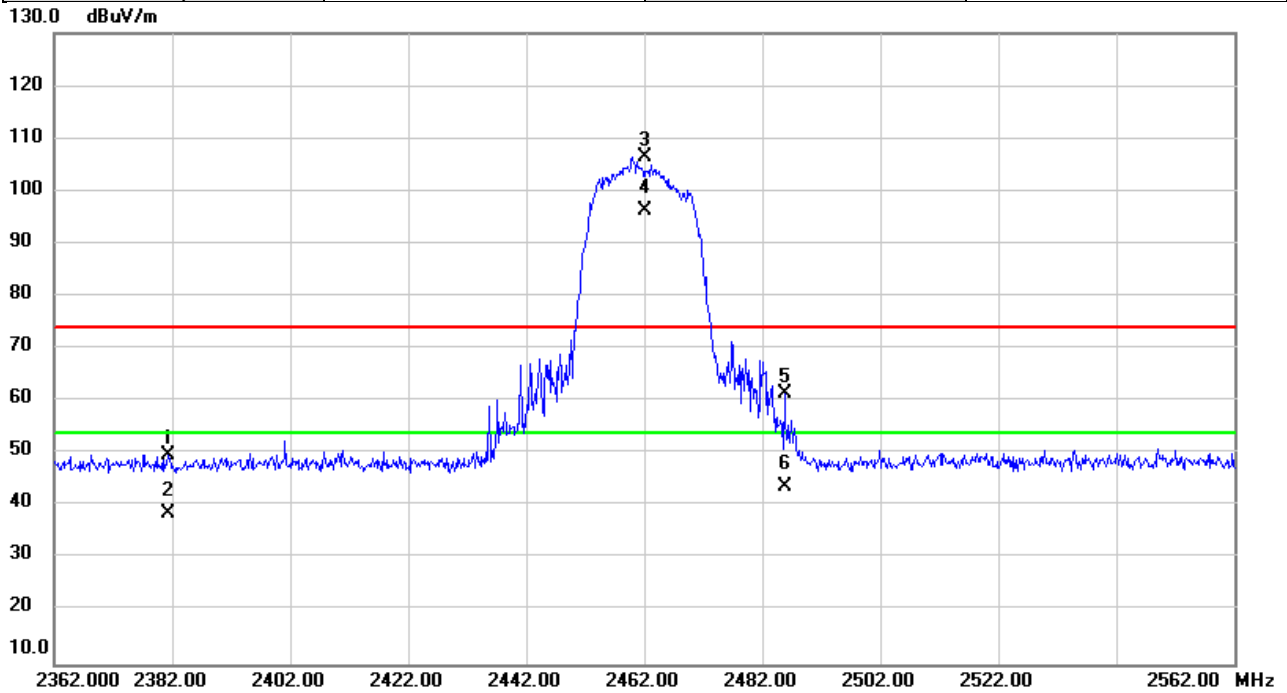
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2388.553	60.12	-5.39	54.73	74.00	-19.27	peak	
2		2388.553	47.36	-5.39	41.97	54.00	-12.03	AVG	
3		2400.000	74.76	-5.37	69.39	74.00	-4.61	peak	No Limit
4	X	2412.000	106.45	-5.34	101.11	74.00	27.11	peak	No Limit
5	*	2412.000	97.22	-5.34	91.88	54.00	37.88	AVG	No Limit
6		2498.560	54.67	-5.19	49.48	74.00	-24.52	peak	
7		2498.560	45.01	-5.19	39.82	54.00	-14.18	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/6/26
Test Frequency	2462MHz	Polarization	Horizontal
Temp	24°C	Hum.	58%

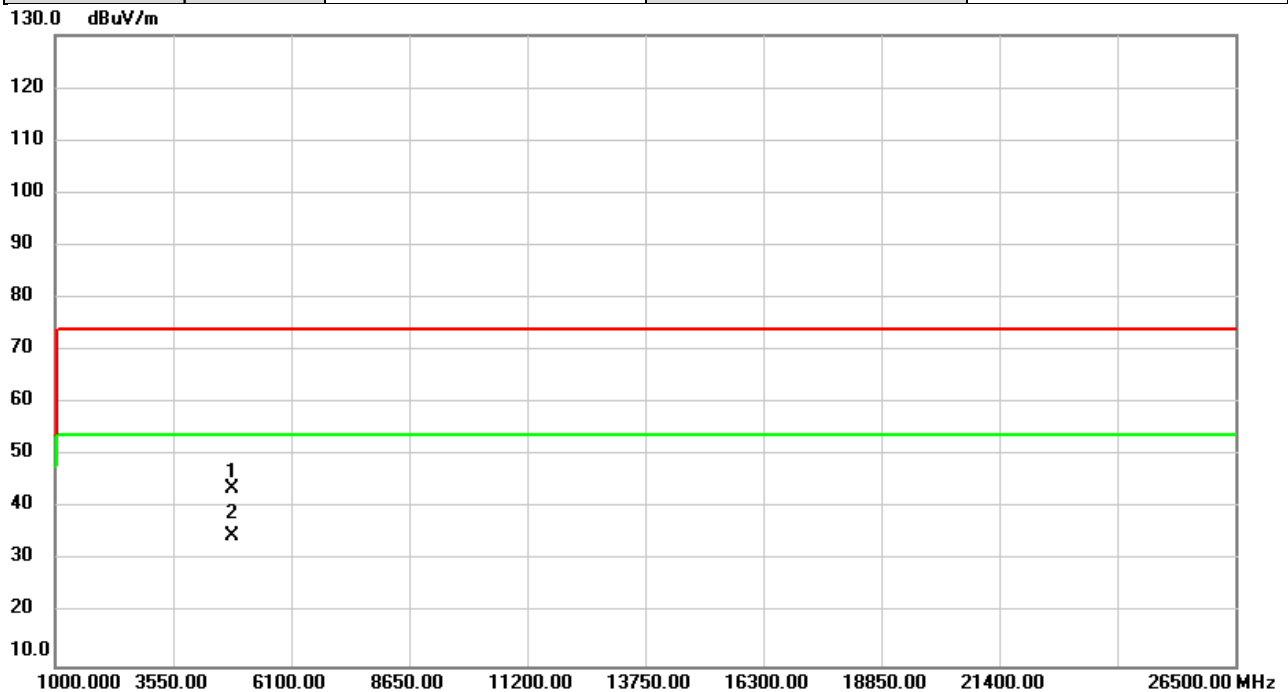


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2381.400	55.23	-5.39	49.84	74.00	-24.16	peak	
2		2381.400	44.04	-5.39	38.65	54.00	-15.35	AVG	
3	X	2462.000	111.75	-5.26	106.49	74.00	32.49	peak	No Limit
4	*	2462.000	101.60	-5.26	96.34	54.00	42.34	AVG	No Limit
5		2485.767	66.77	-5.21	61.56	74.00	-12.44	peak	
6		2485.767	48.89	-5.21	43.68	54.00	-10.32	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/6/26
Test Frequency	2412MHz	Polarization	Vertical
Temp	24°C	Hum.	58%

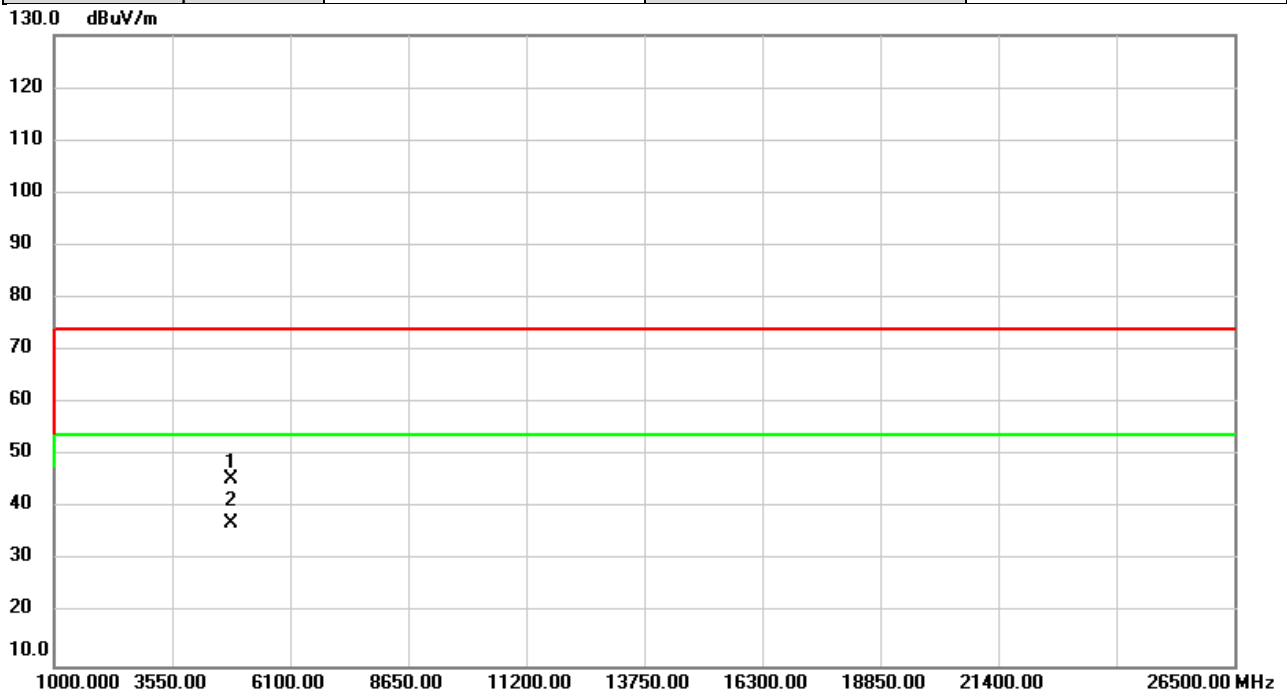


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	43.24	0.59	43.83	74.00	-30.17	peak	
2	*	4824.000	34.29	0.59	34.88	54.00	-19.12	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/6/26
Test Frequency	2412MHz	Polarization	Horizontal
Temp	24°C	Hum.	58%

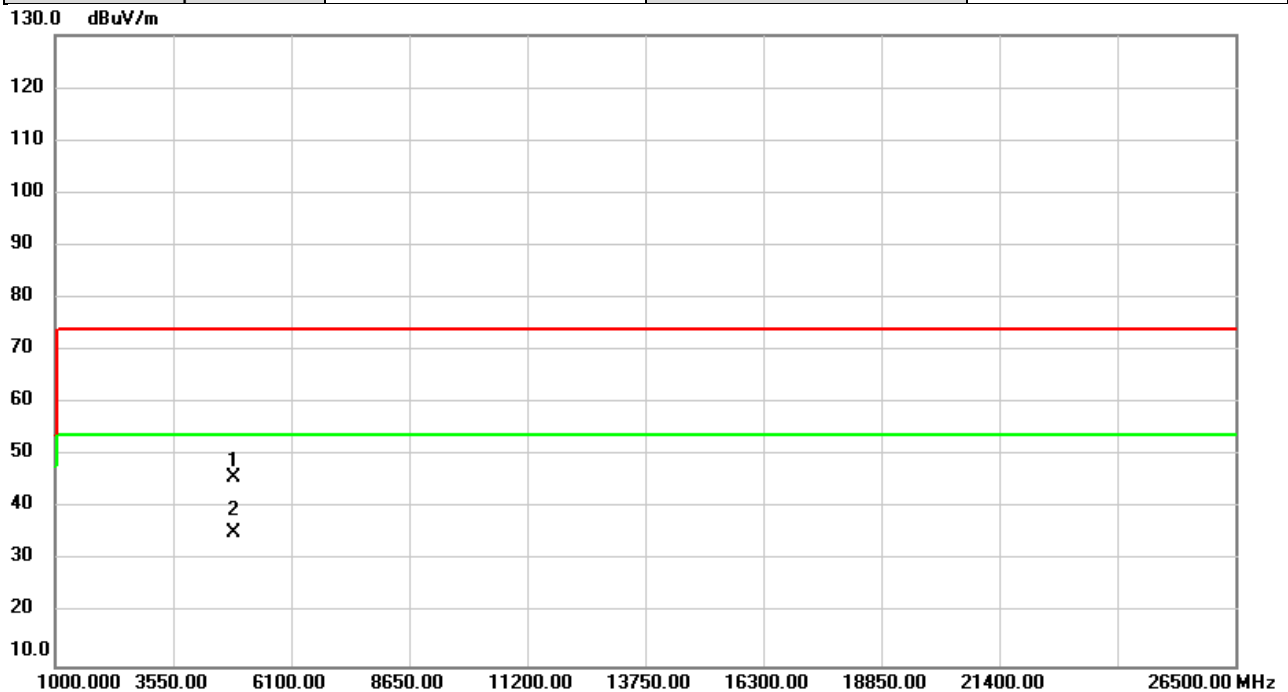


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	44.89	0.59	45.48	74.00	-28.52	peak	
2	*	4824.000	36.48	0.59	37.07	54.00	-16.93	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/6/26
Test Frequency	2437MHz	Polarization	Vertical
Temp	24°C	Hum.	58%

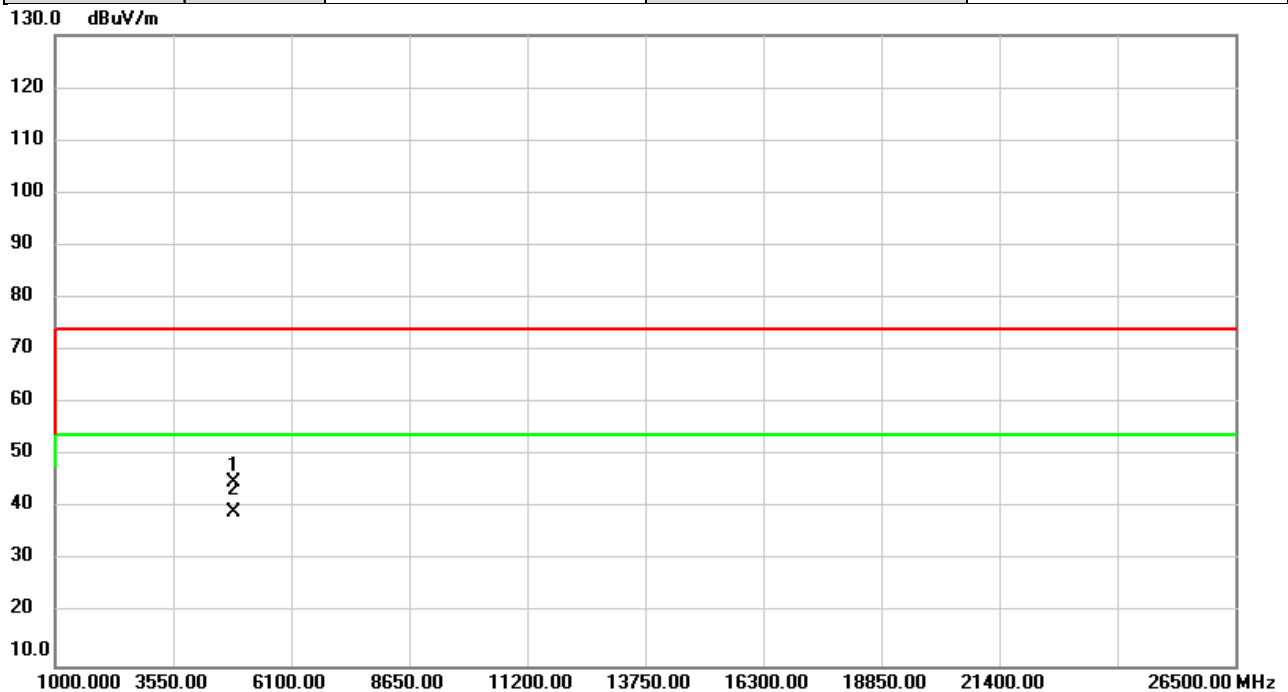


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	45.21	0.74	45.95	74.00	-28.05	peak	
2	*	4874.000	34.73	0.74	35.47	54.00	-18.53	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/6/26
Test Frequency	2437MHz	Polarization	Horizontal
Temp	24°C	Hum.	58%

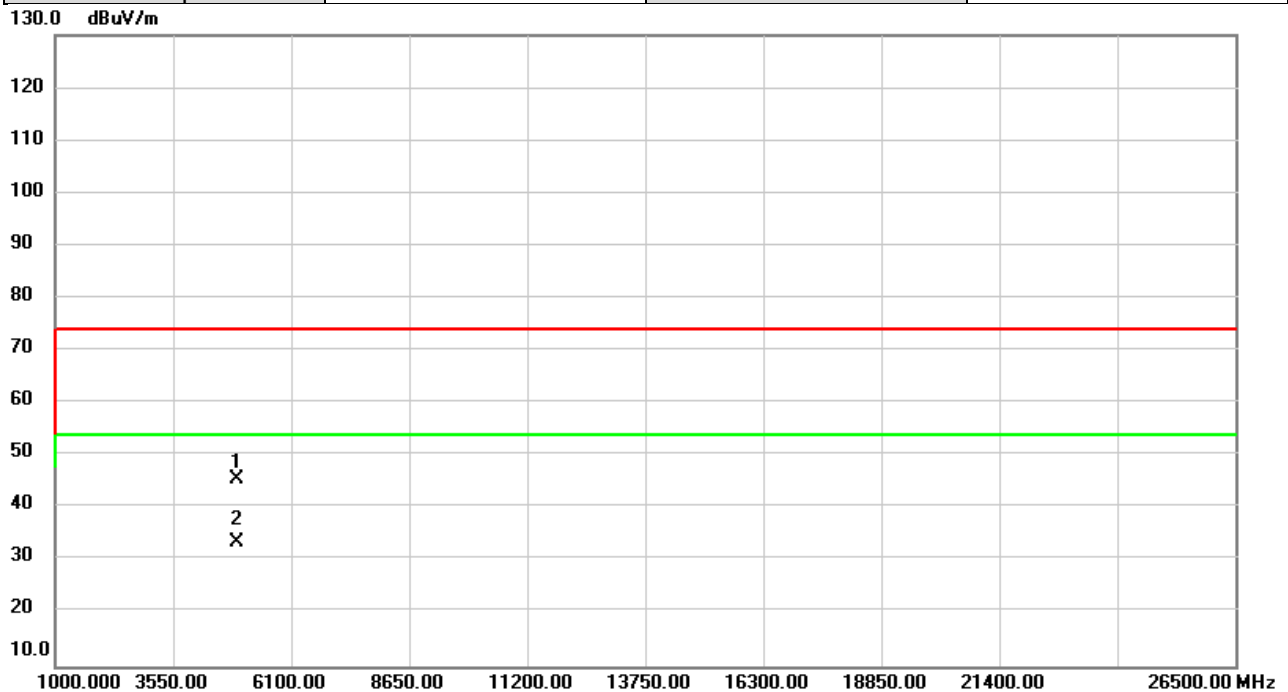


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	44.17	0.74	44.91	74.00	-29.09	peak	
2	*	4874.000	38.41	0.74	39.15	54.00	-14.85	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/6/26
Test Frequency	2462MHz	Polarization	Vertical
Temp	24°C	Hum.	58%

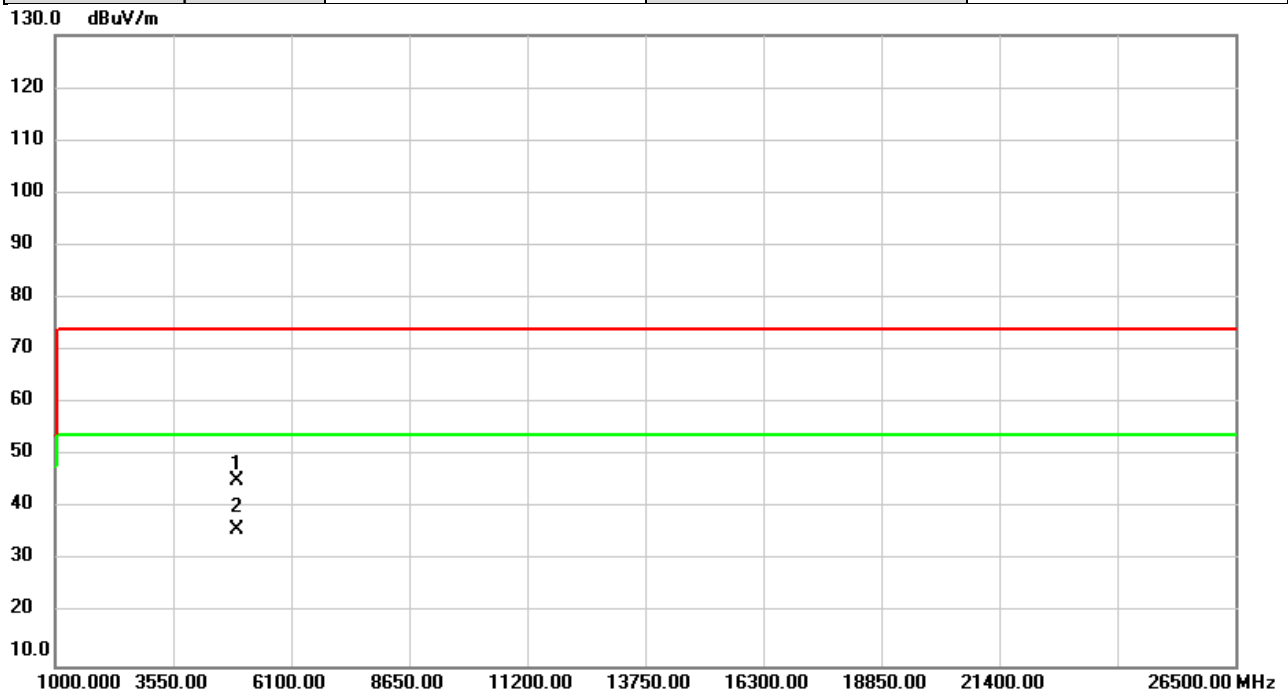


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	44.64	0.89	45.53	74.00	-28.47	peak	
2	*	4924.000	32.77	0.89	33.66	54.00	-20.34	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2023/6/26
Test Frequency	2462MHz	Polarization	Horizontal
Temp	24°C	Hum.	58%

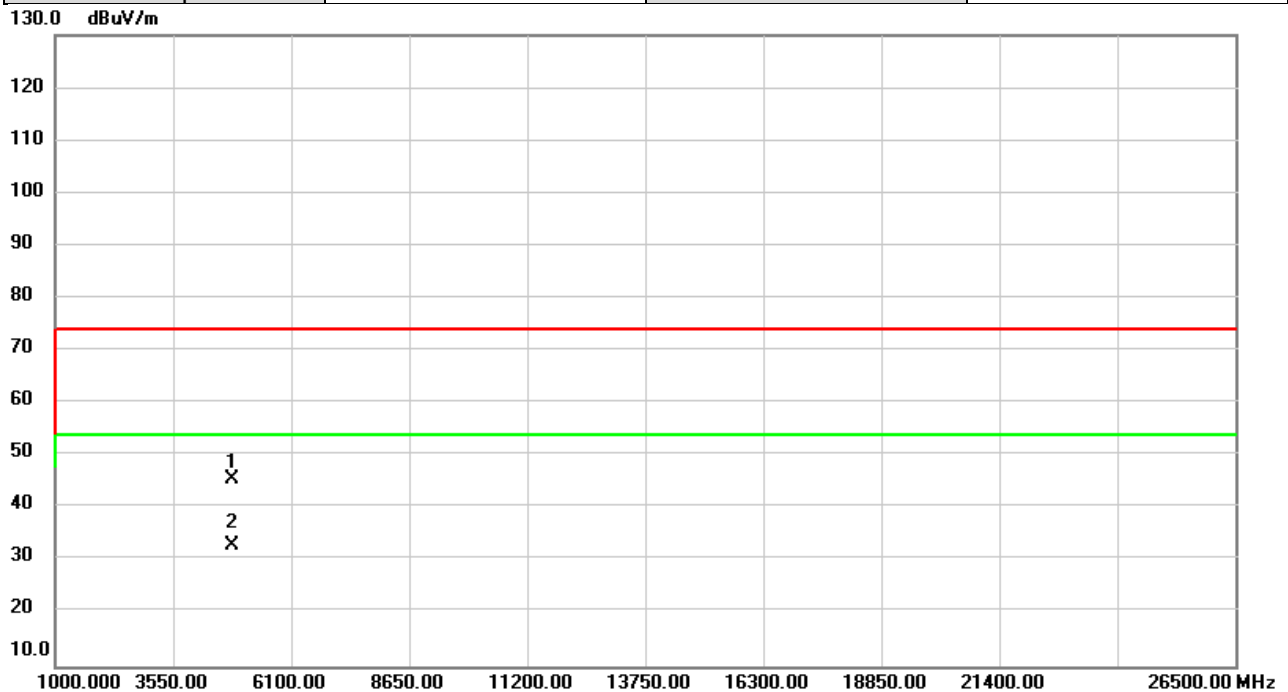


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	44.36	0.89	45.25	74.00	-28.75	peak	
2	*	4924.000	35.06	0.89	35.95	54.00	-18.05	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/6/26
Test Frequency	2412MHz	Polarization	Vertical
Temp	24°C	Hum.	58%

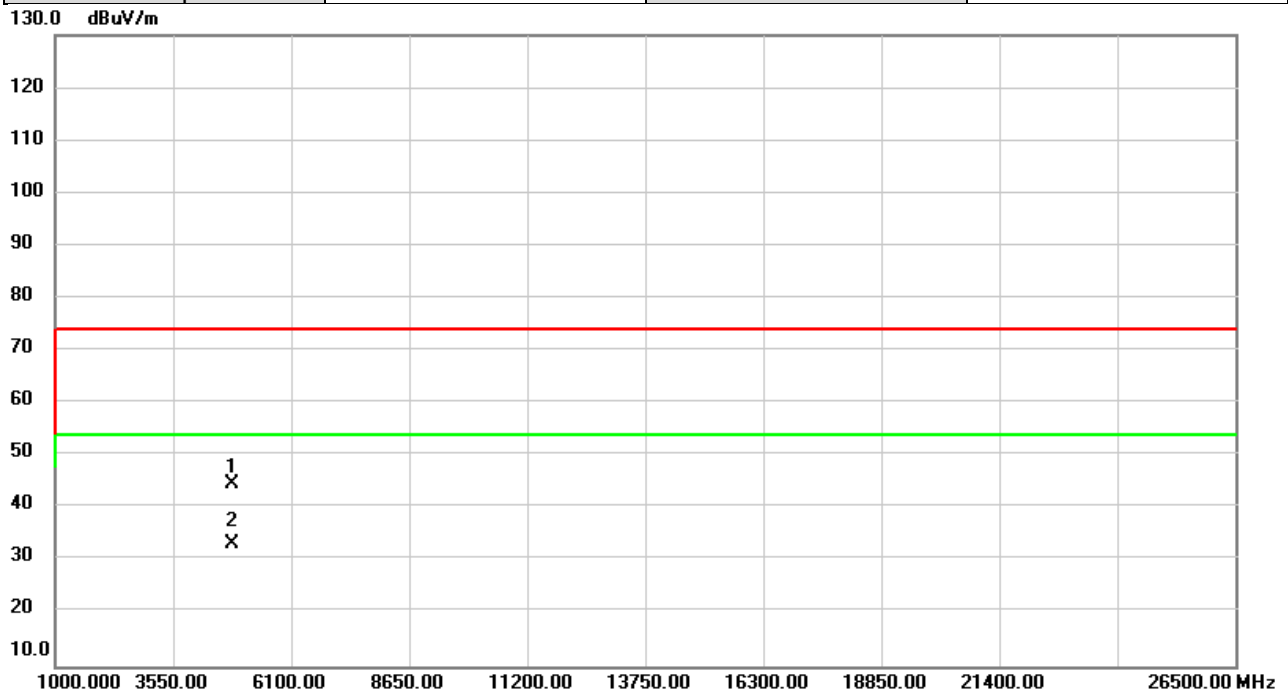


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	44.95	0.59	45.54	74.00	-28.46	peak	
2	*	4824.000	32.40	0.59	32.99	54.00	-21.01	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/6/26
Test Frequency	2412MHz	Polarization	Horizontal
Temp	24°C	Hum.	58%

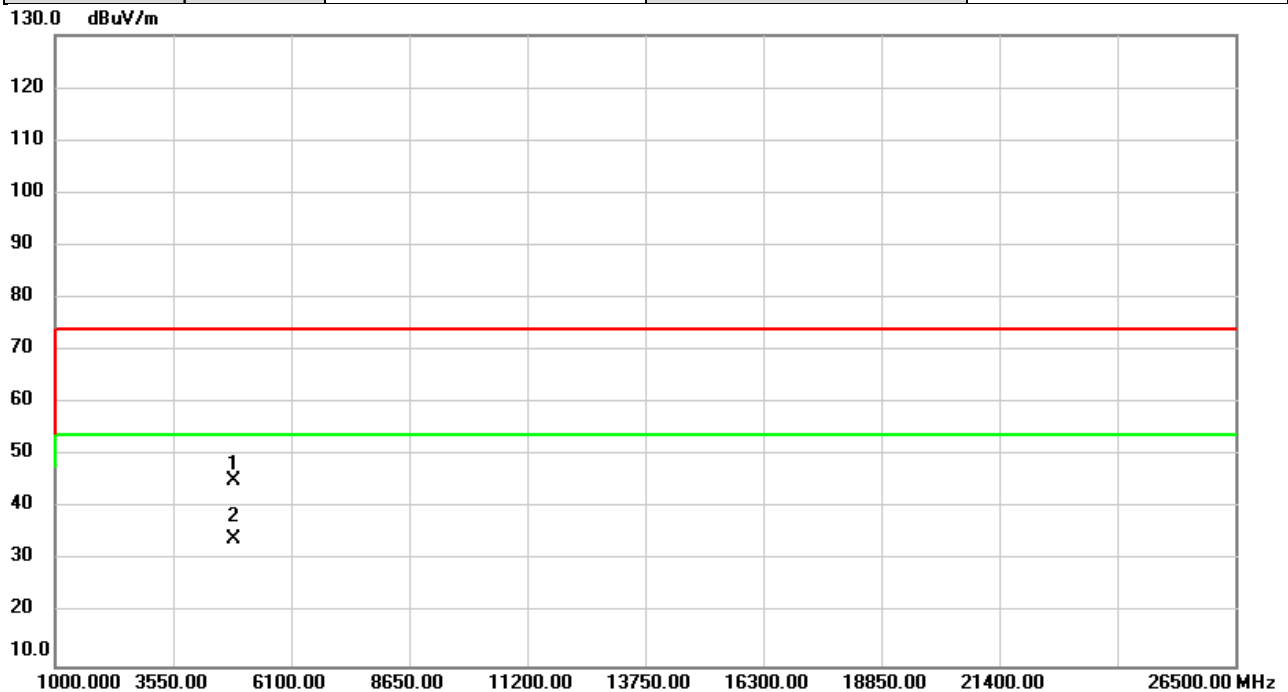


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	44.18	0.59	44.77	74.00	-29.23	peak	
2	*	4824.000	32.60	0.59	33.19	54.00	-20.81	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/6/26
Test Frequency	2437MHz	Polarization	Vertical
Temp	24°C	Hum.	58%

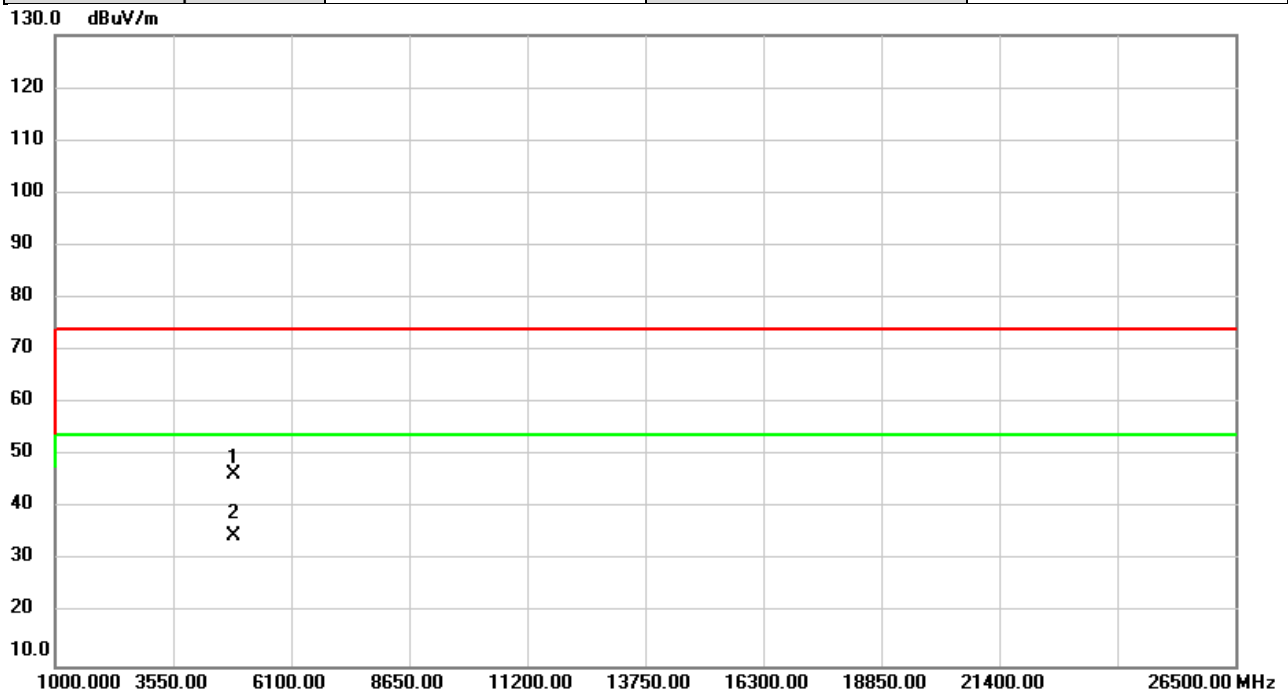


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	44.66	0.74	45.40	74.00	-28.60	peak	
2	*	4874.000	33.46	0.74	34.20	54.00	-19.80	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/6/26
Test Frequency	2437MHz	Polarization	Horizontal
Temp	24°C	Hum.	58%

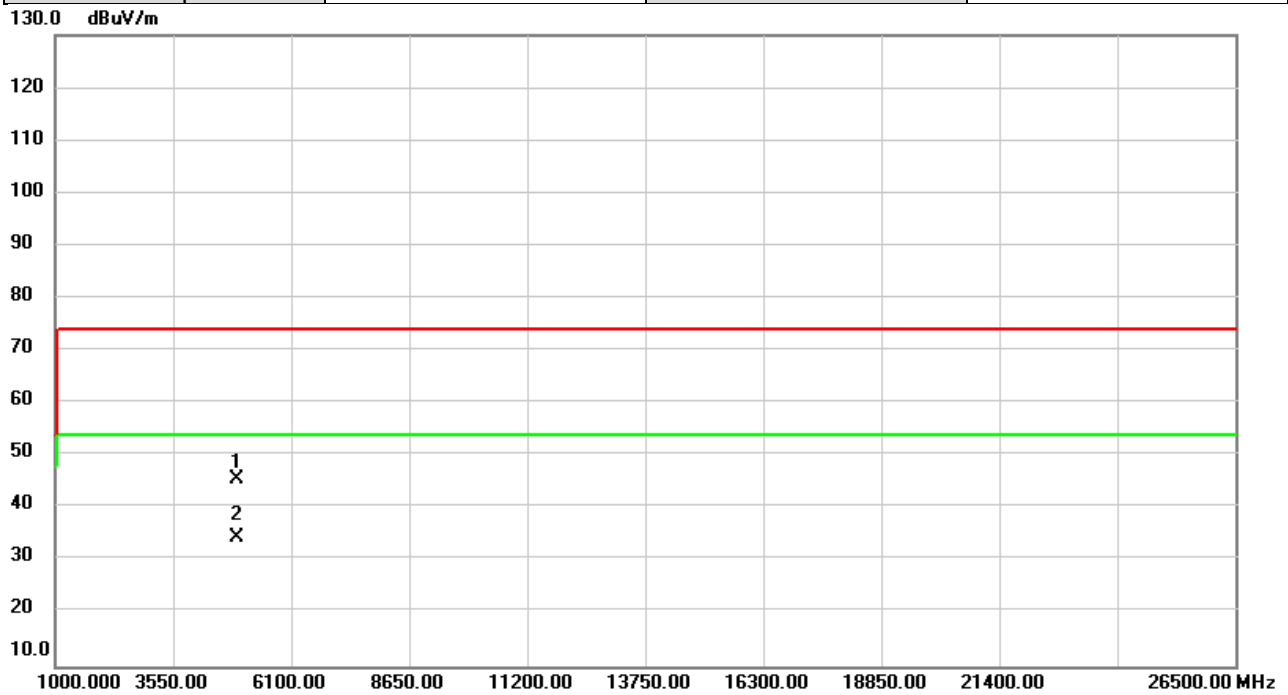


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	45.61	0.74	46.35	74.00	-27.65	peak	
2	*	4874.000	33.88	0.74	34.62	54.00	-19.38	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/6/26
Test Frequency	2462MHz	Polarization	Vertical
Temp	24°C	Hum.	58%

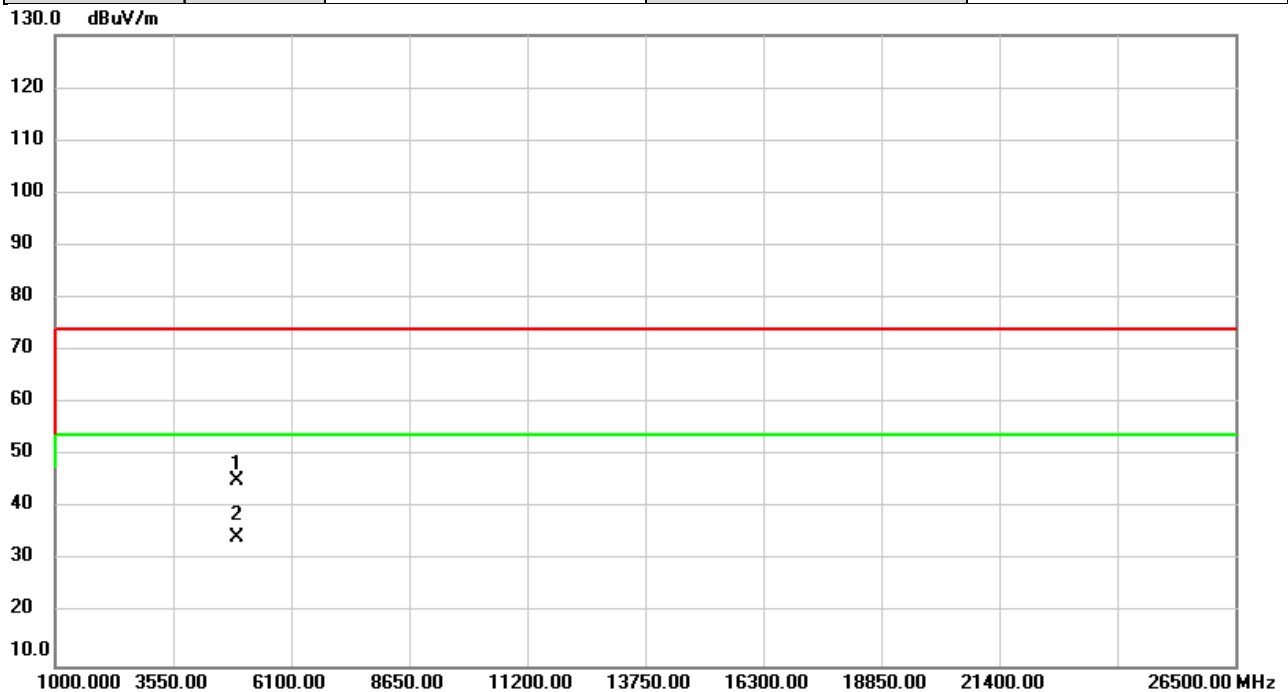


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	44.62	0.89	45.51	74.00	-28.49	peak	
2	*	4924.000	33.58	0.89	34.47	54.00	-19.53	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/6/26
Test Frequency	2462MHz	Polarization	Horizontal
Temp	24°C	Hum.	58%

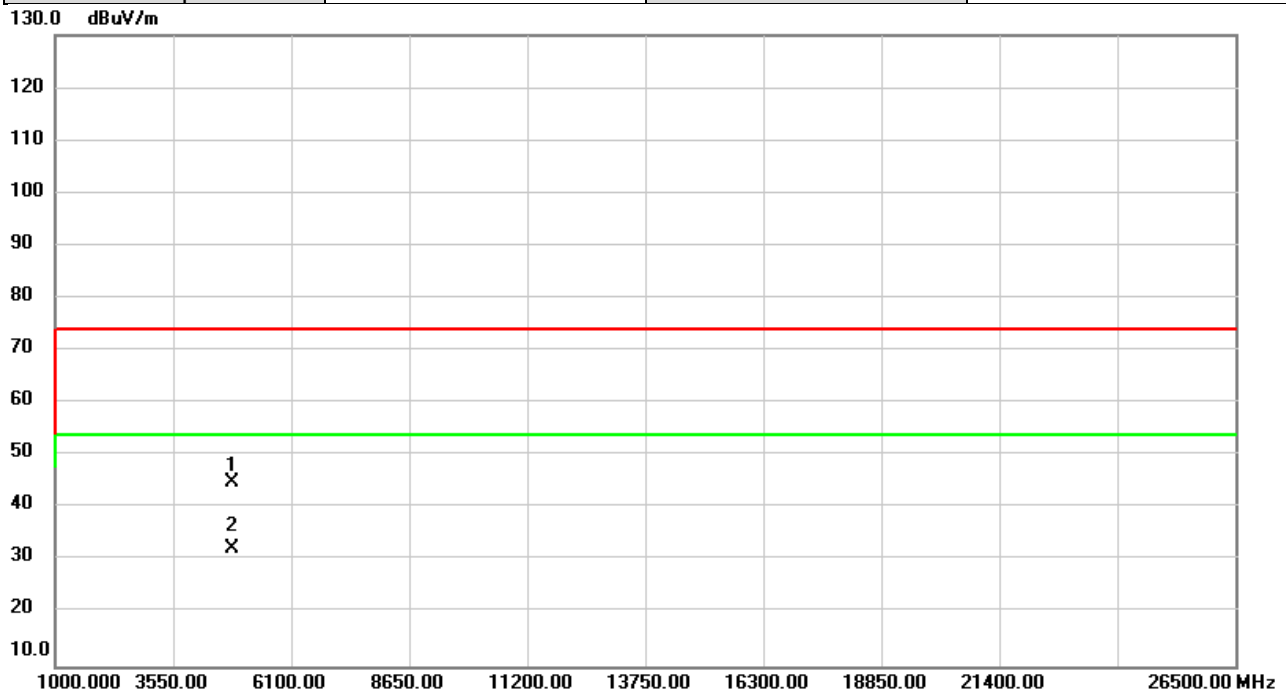


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	44.31	0.89	45.20	74.00	-28.80	peak	
2	*	4924.000	33.42	0.89	34.31	54.00	-19.69	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/6/26
Test Frequency	2412MHz	Polarization	Vertical
Temp	24°C	Hum.	58%

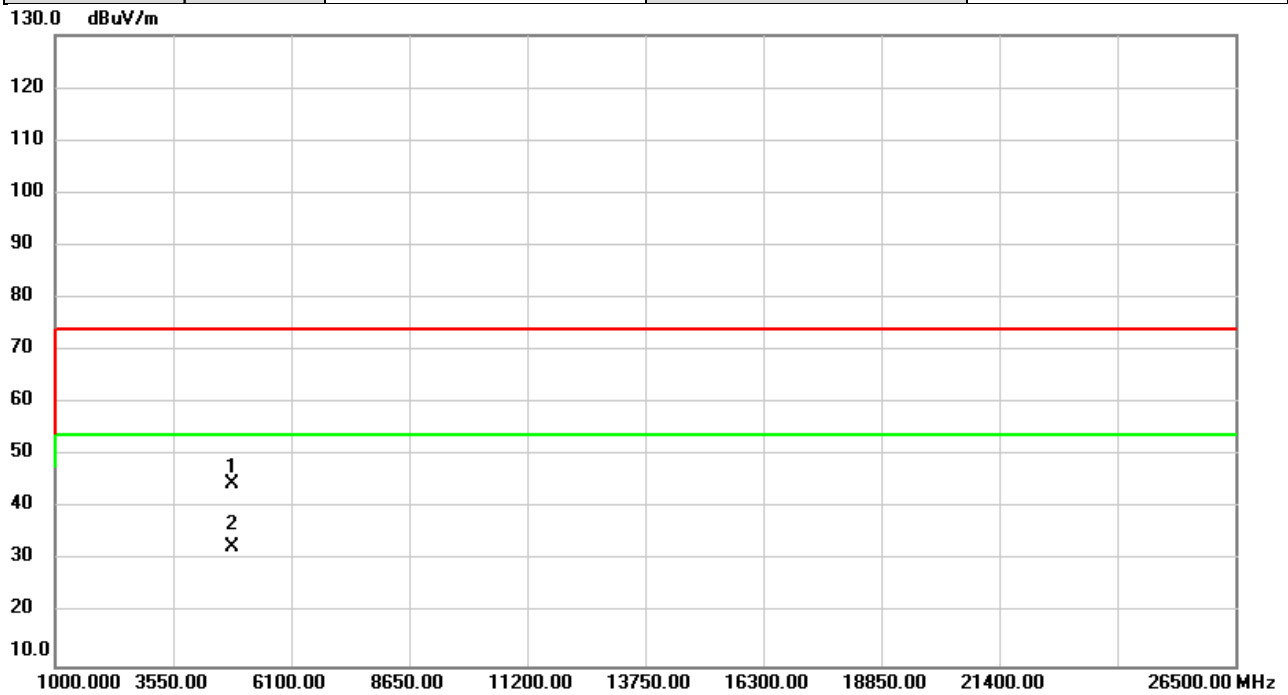


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	44.49	0.59	45.08	74.00	-28.92	peak	
2	*	4824.000	31.78	0.59	32.37	54.00	-21.63	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/6/26
Test Frequency	2412MHz	Polarization	Horizontal
Temp	24°C	Hum.	58%

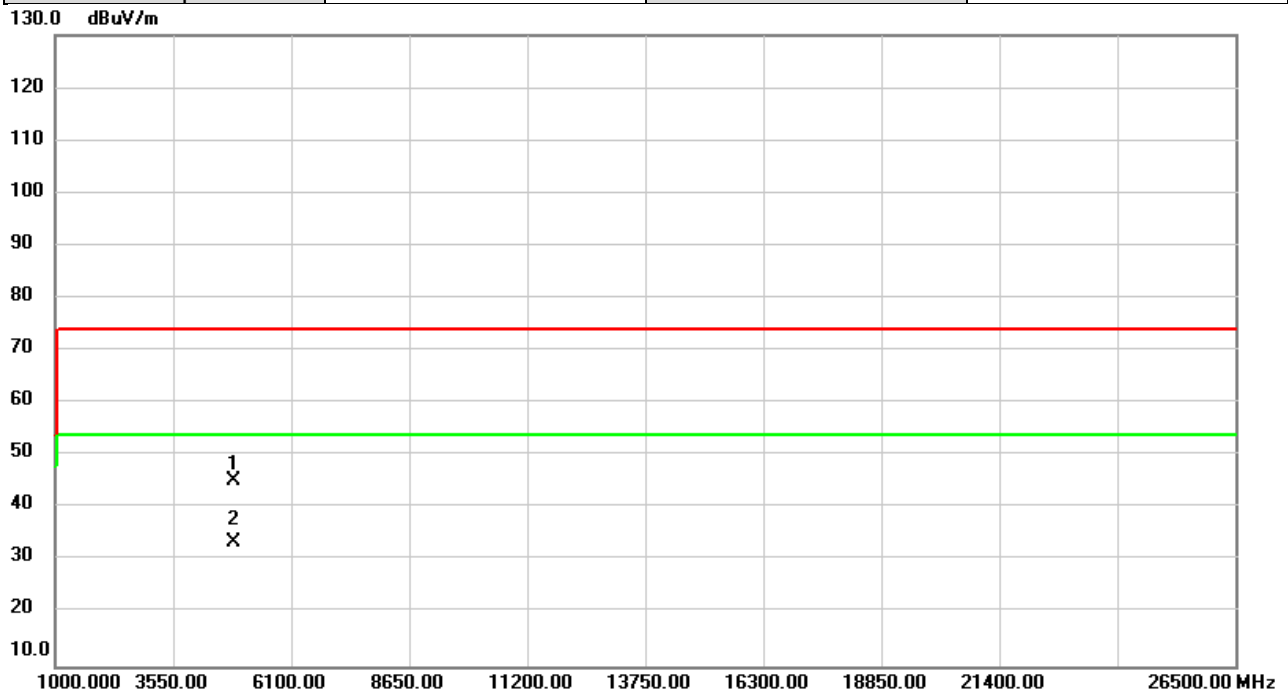


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	44.00	0.59	44.59	74.00	-29.41	peak	
2	*	4824.000	32.05	0.59	32.64	54.00	-21.36	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/6/26
Test Frequency	2437MHz	Polarization	Vertical
Temp	24°C	Hum.	58%

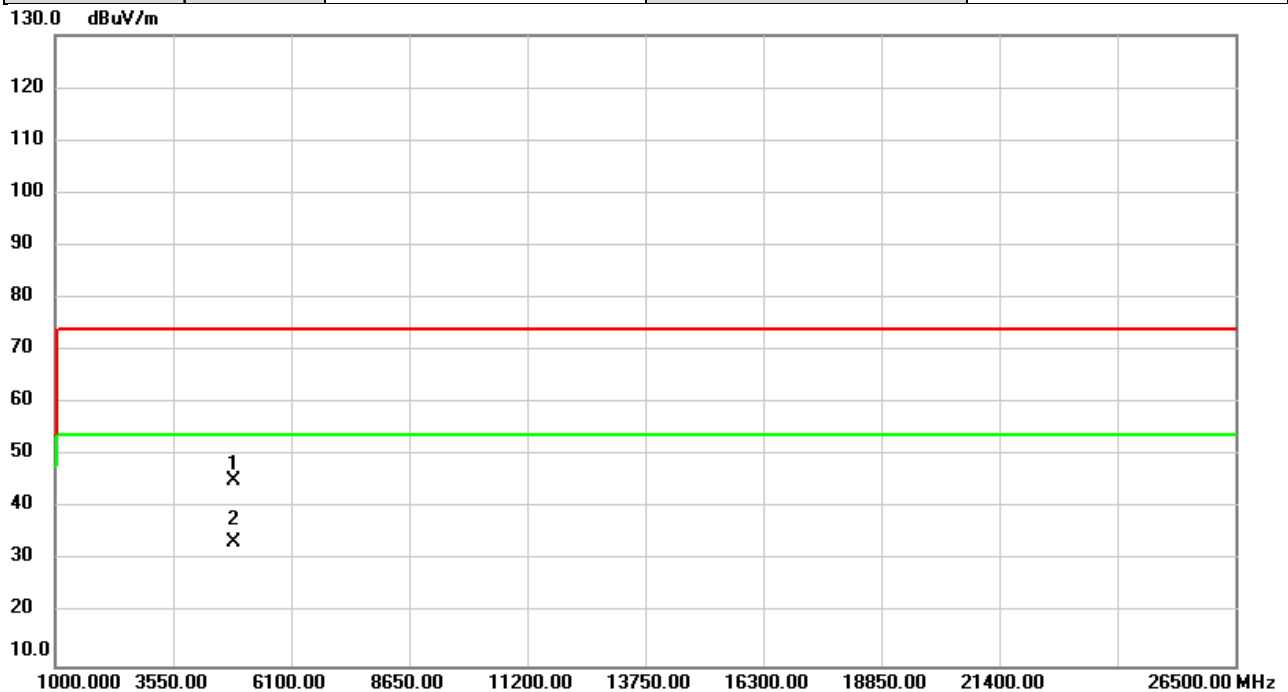


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	44.65	0.74	45.39	74.00	-28.61	peak	
2	*	4874.000	32.89	0.74	33.63	54.00	-20.37	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/6/26
Test Frequency	2437MHz	Polarization	Horizontal
Temp	24°C	Hum.	58%

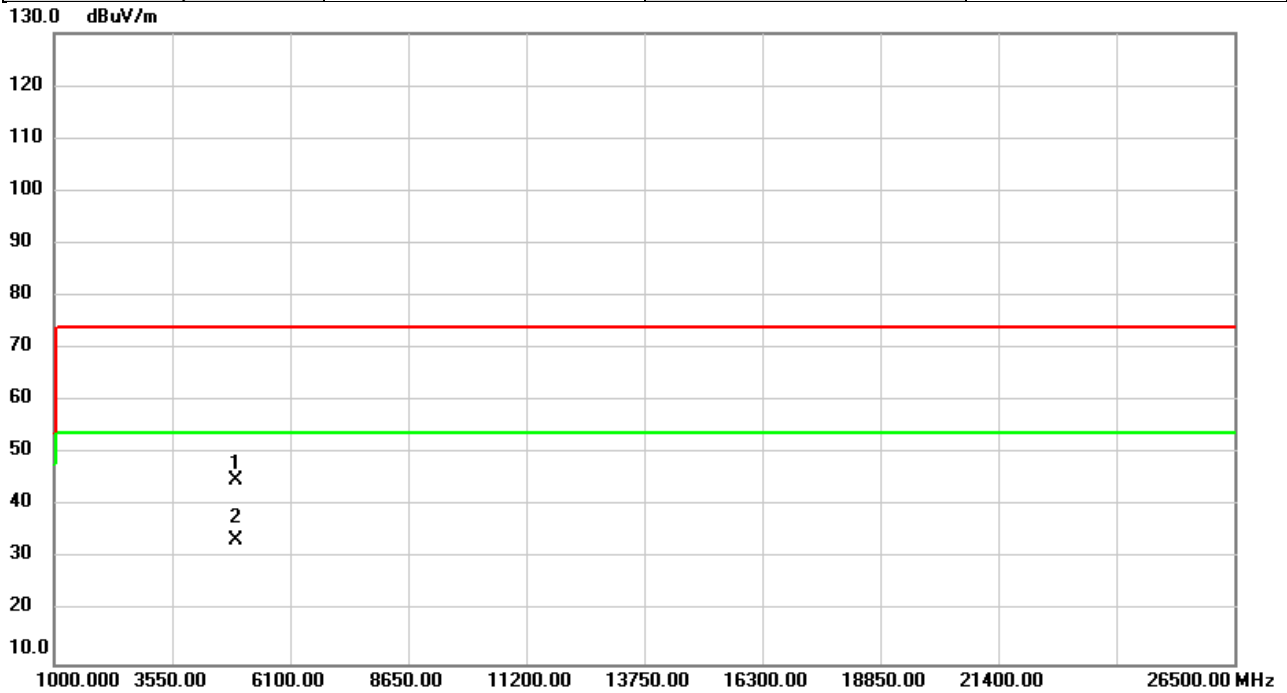


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	44.49	0.74	45.23	74.00	-28.77	peak	
2	*	4874.000	32.84	0.74	33.58	54.00	-20.42	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/6/26
Test Frequency	2462MHz	Polarization	Vertical
Temp	24°C	Hum.	58%

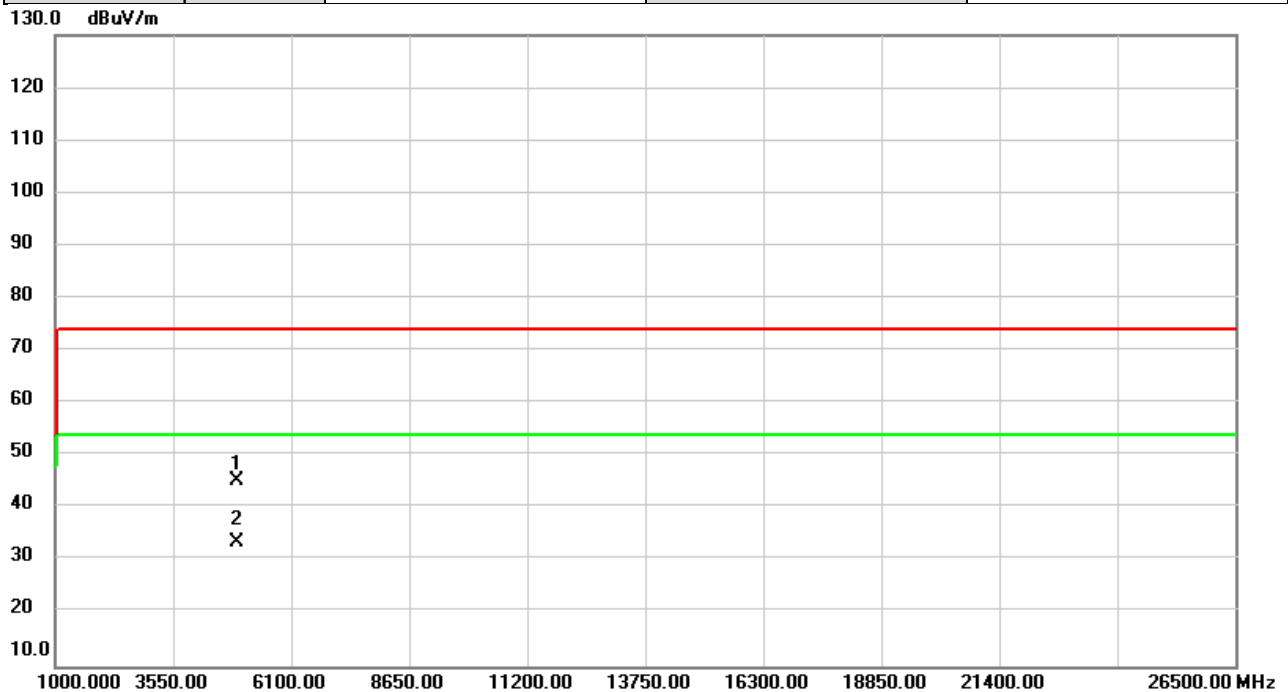


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	43.92	0.89	44.81	74.00	-29.19	peak	
2	*	4924.000	32.75	0.89	33.64	54.00	-20.36	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2023/6/26
Test Frequency	2462MHz	Polarization	Horizontal
Temp	24°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	44.41	0.89	45.30	74.00	-28.70	peak	
2	*	4924.000	32.76	0.89	33.65	54.00	-20.35	AVG	

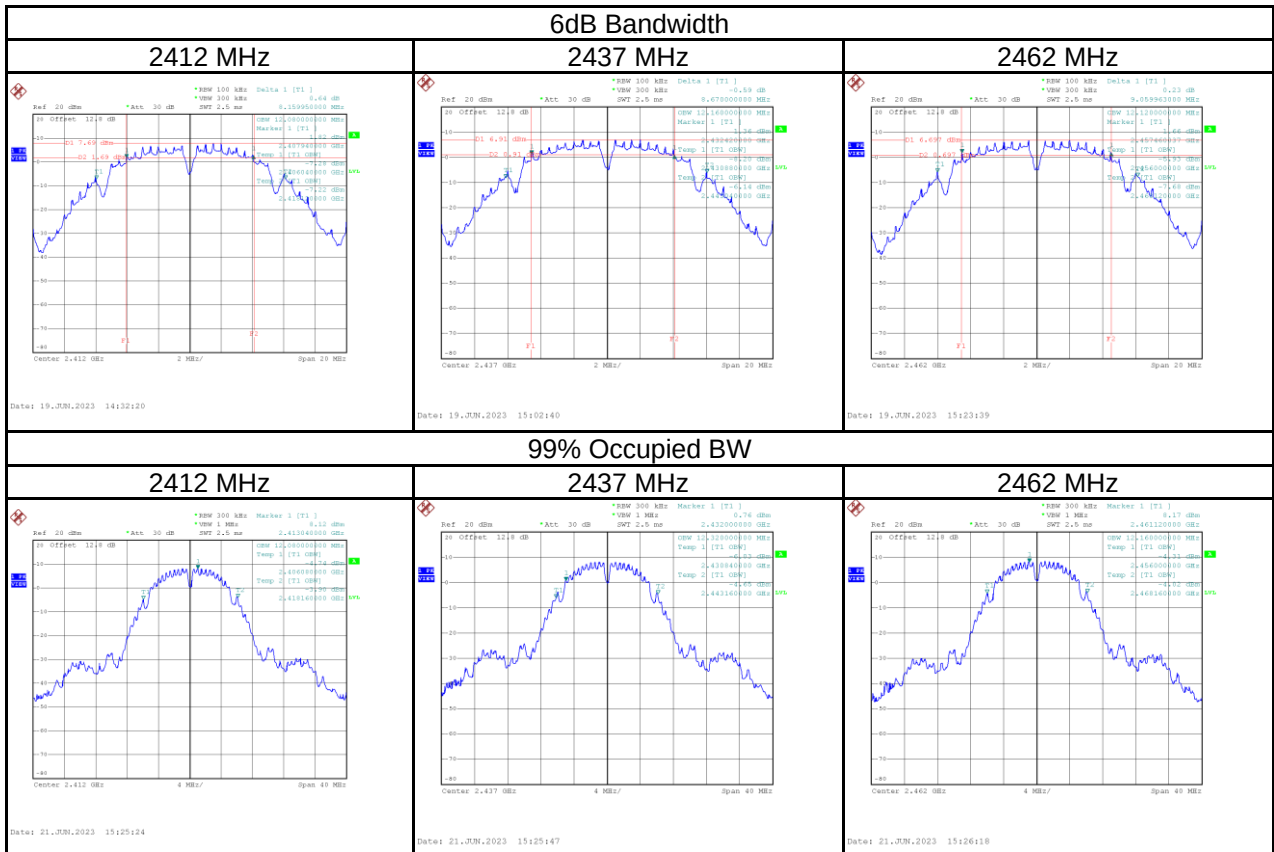
REMARKS:

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

APPENDIX D BANDWIDTH

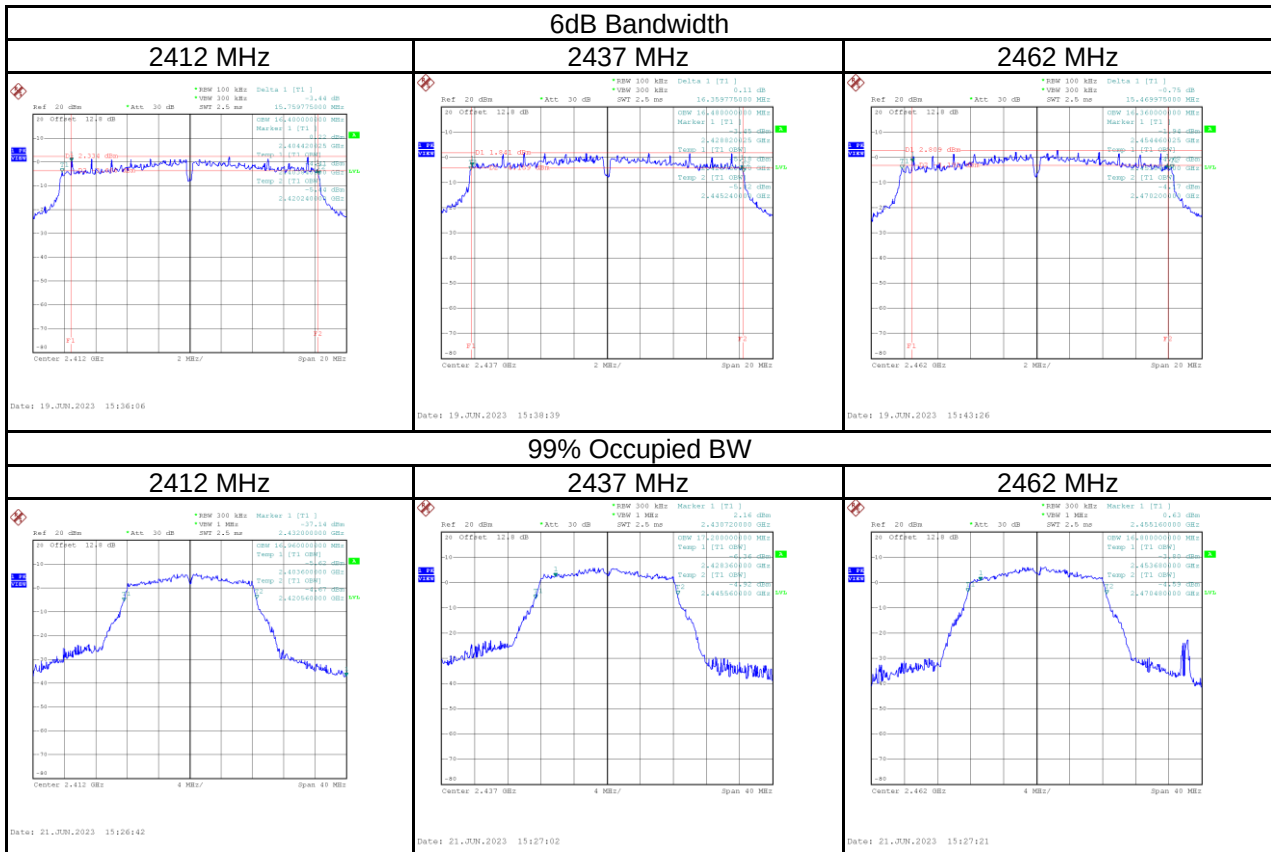
Test Mode	IEEE 802.11b
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	8.16	12.08	≥ 500	Pass
2437	8.67	12.32	≥ 500	Pass
2462	9.06	12.16	≥ 500	Pass



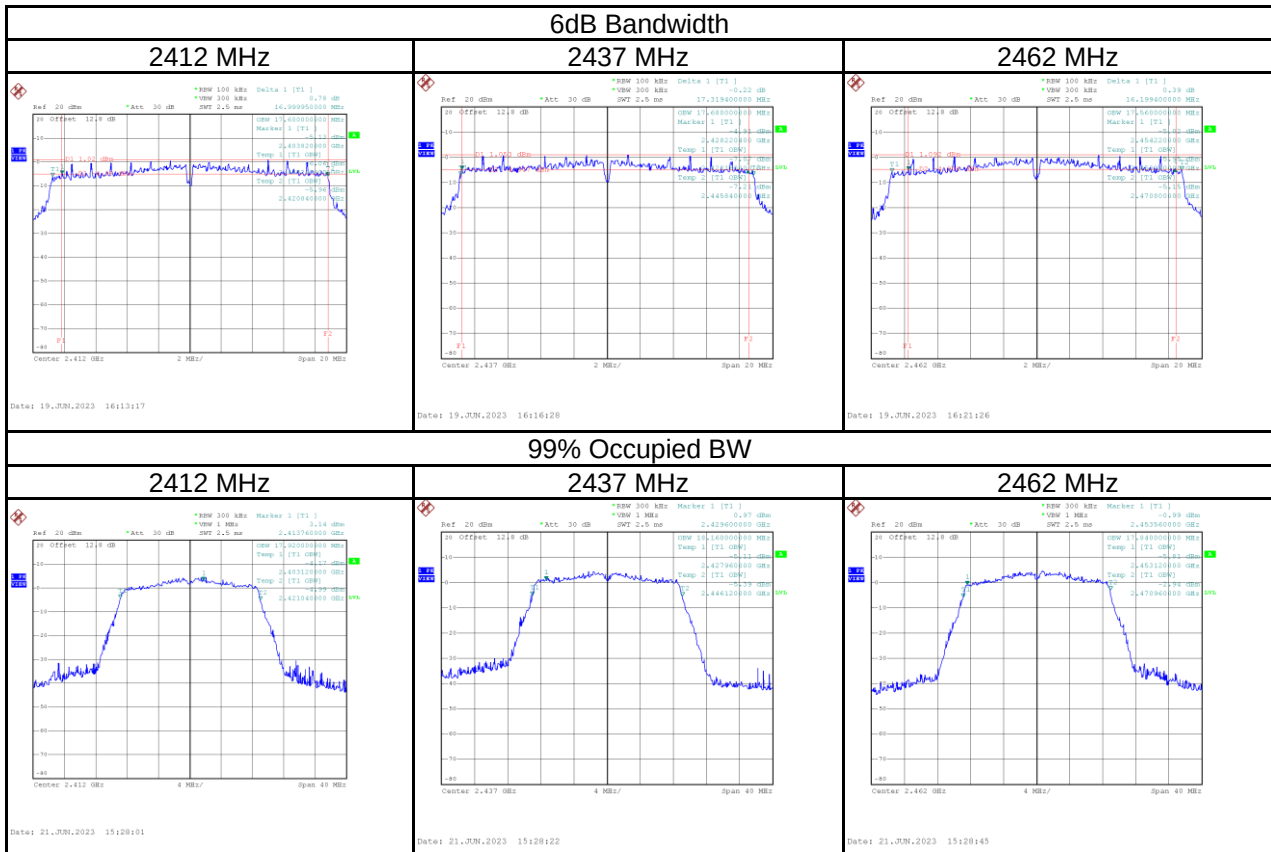
Test Mode	IEEE 802.11g
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	15.76	16.96	≥ 500	Pass
2437	16.36	17.20	≥ 500	Pass
2462	15.47	16.80	≥ 500	Pass



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	17.00	17.92	≥ 500	Pass
2437	17.32	18.16	≥ 500	Pass
2462	16.20	17.84	≥ 500	Pass



APPENDIX E OUTPUT POWER

Test Mode	IEEE 802.11b	Tested Date	2023/6/19
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	18.91	0.0778	30.00	1.0000	Pass
2437	18.85	0.0767	30.00	1.0000	Pass
2462	19.08	0.0809	30.00	1.0000	Pass

Test Mode	IEEE 802.11g	Tested Date	2023/6/19
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	23.47	0.2223	30.00	1.0000	Pass
2437	23.33	0.2153	30.00	1.0000	Pass
2462	23.52	0.2249	30.00	1.0000	Pass

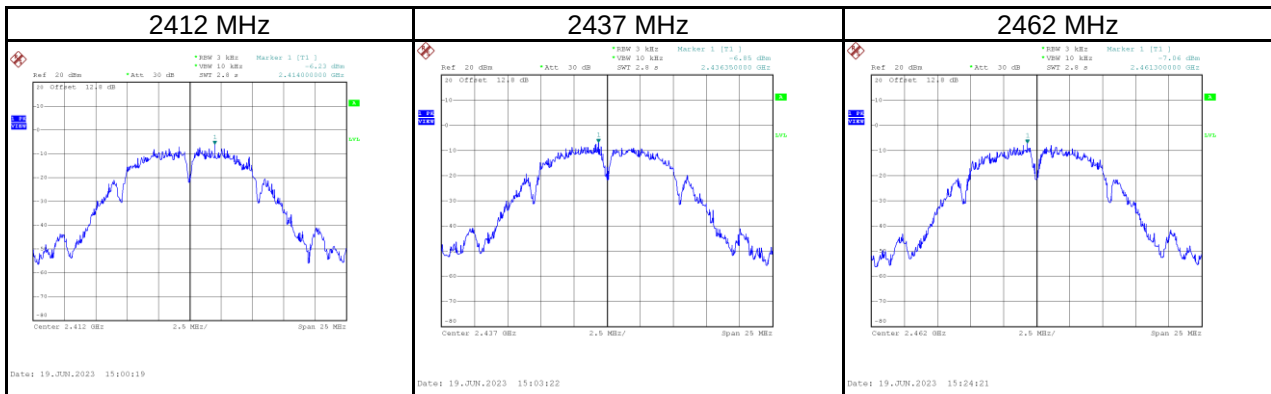
Test Mode	IEEE 802.11n (HT20)	Tested Date	2023/6/19
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	21.72	0.1486	30.00	1.0000	Pass
2437	21.69	0.1476	30.00	1.0000	Pass
2462	21.98	0.1578	30.00	1.0000	Pass

APPENDIX F POWER SPECTRAL DENSITY

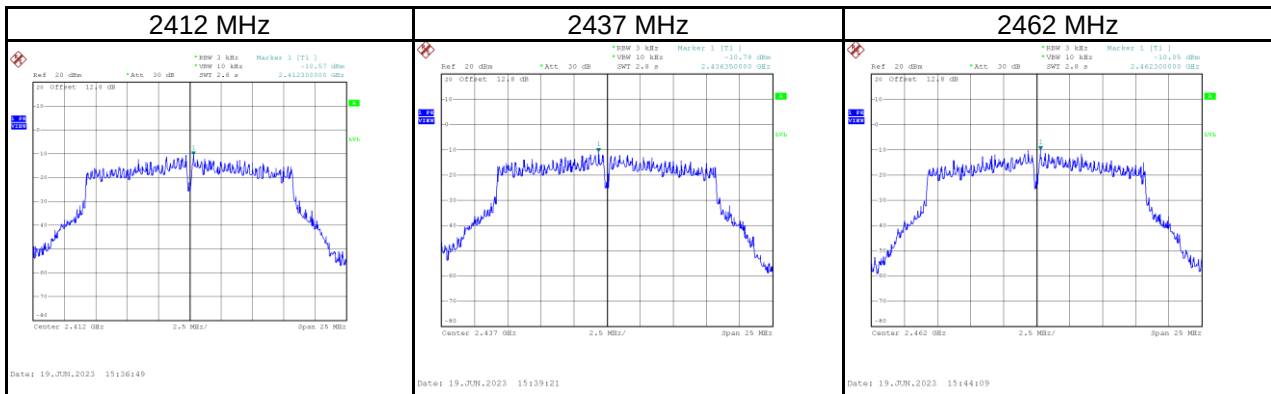
Test Mode	IEEE 802.11b
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-6.23	8.00	Pass
2437	-6.85	8.00	Pass
2462	-7.06	8.00	Pass



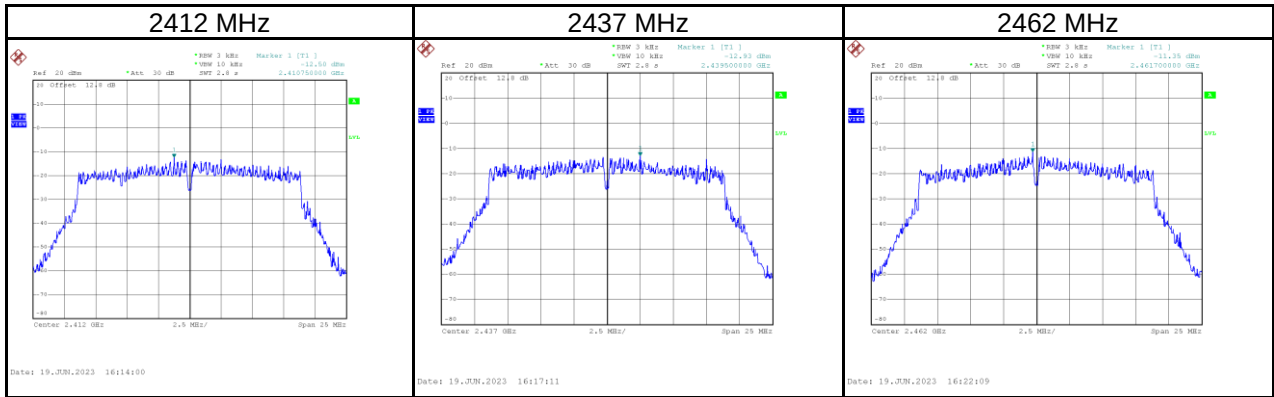
Test Mode	IEEE 802.11g
-----------	--------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-10.57	8.00	Pass
2437	-10.78	8.00	Pass
2462	-10.05	8.00	Pass



Test Mode	IEEE 802.11n (HT20)
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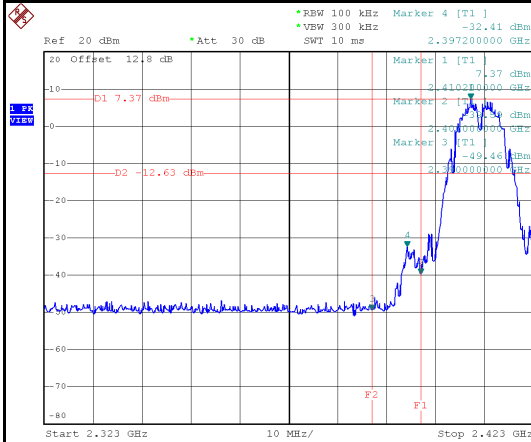
Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-12.50	8.00	Pass
2437	-12.93	8.00	Pass
2462	-11.35	8.00	Pass



APPENDIX G ANTENNA CONDUCTED SPURIOUS EMISSIONS

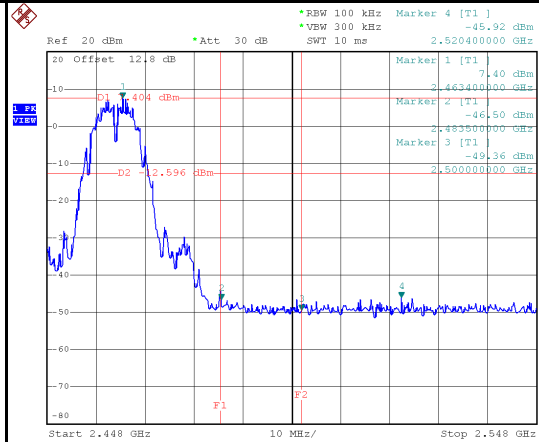
Test Mode IEEE 802.11b

Low Bandedge-2412 MHz



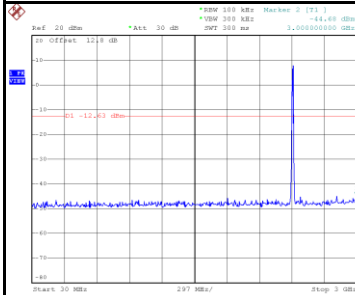
Date: 19.JUN.2023 14:59:43

High Bandedge-2462 MHz

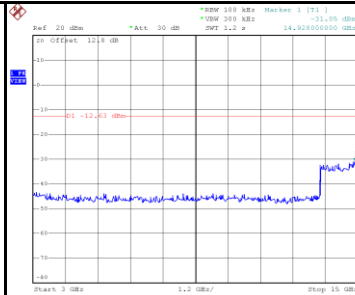


Date: 19.JUN.2023 15:23:46

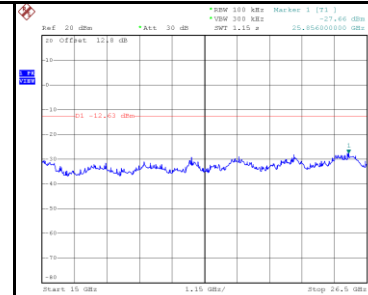
2412 MHz-10th Harmonics



Date: 19.JUN.2023 14:59:56

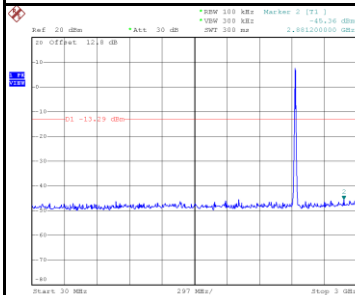


Date: 19.JUN.2023 15:00:03

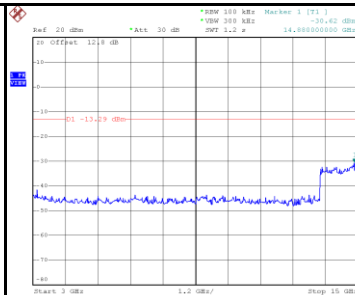


Date: 19.JUN.2023 15:00:10

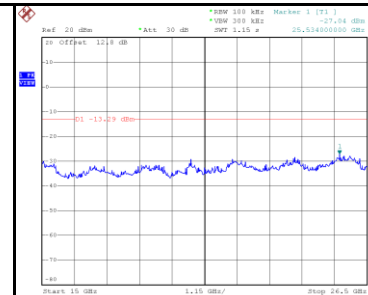
2437 MHz-10th Harmonics



Date: 19.JUN.2023 15:03:00

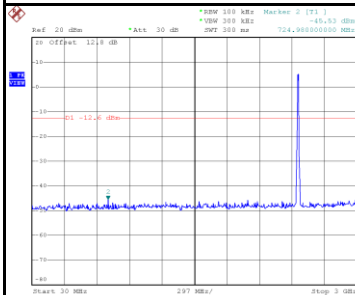


Date: 19.JUN.2023 15:03:07

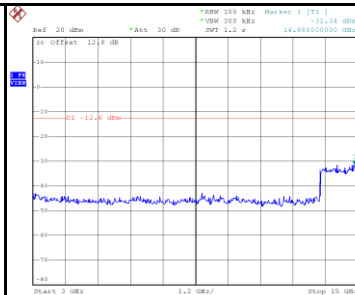


Date: 19.JUN.2023 15:03:14

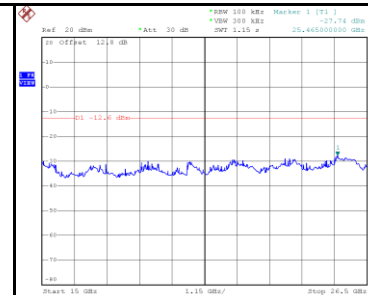
2462 MHz-10th Harmonics



Date: 19.JUN.2023 15:23:59



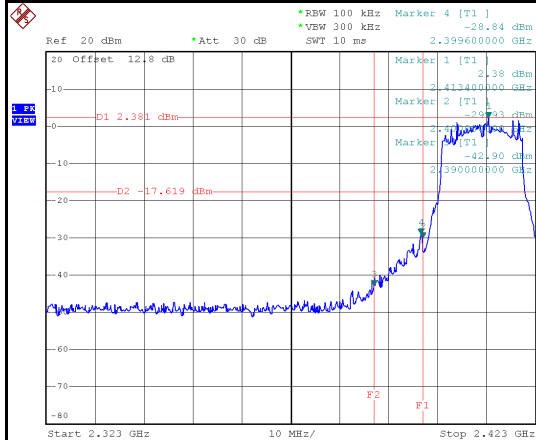
Date: 19.JUN.2023 15:24:05



Date: 19.JUN.2023 15:24:12

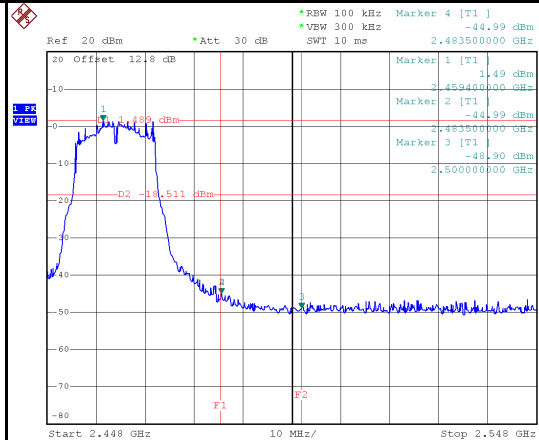
Test Mode IEEE 802.11g

Low Bandedge-2412 MHz



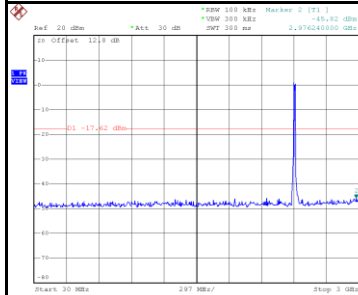
Date: 19.JUN.2023 15:36:13

High Bandedge-2462 MHz

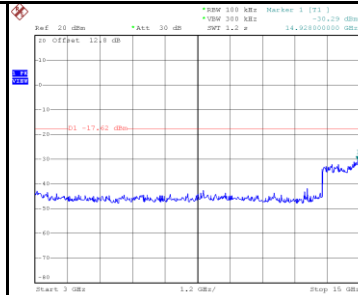


Date: 19.JUN.2023 15:43:33

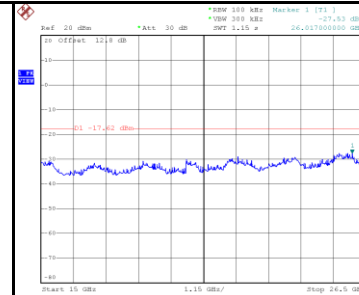
2412 MHz-10th Harmonics



Date: 19.JUN.2023 15:36:26

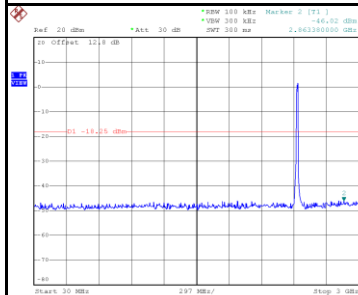


Date: 19.JUN.2023 15:36:33

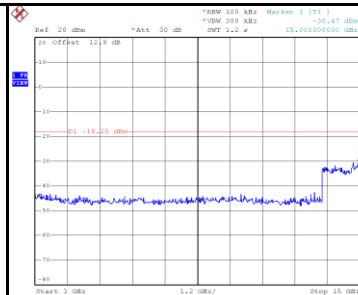


Date: 19.JUN.2023 15:36:40

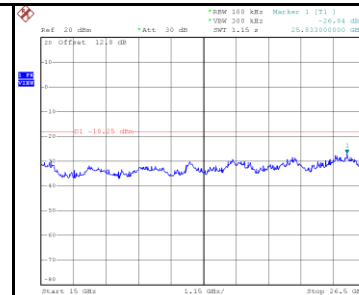
2437 MHz-10th Harmonics



Date: 19.JUN.2023 15:38:59

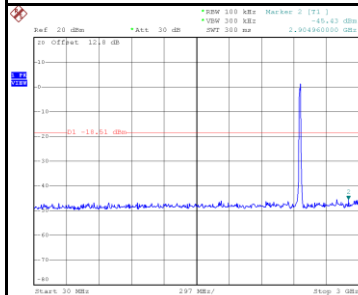


Date: 19.JUN.2023 15:39:06

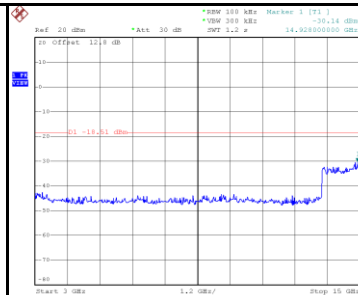


Date: 19.JUN.2023 15:39:13

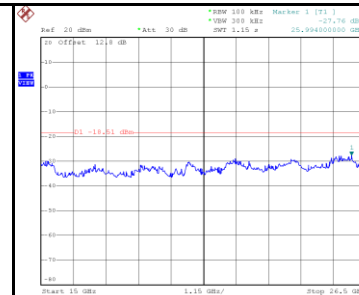
2462 MHz-10th Harmonics



Date: 19.JUN.2023 15:43:46



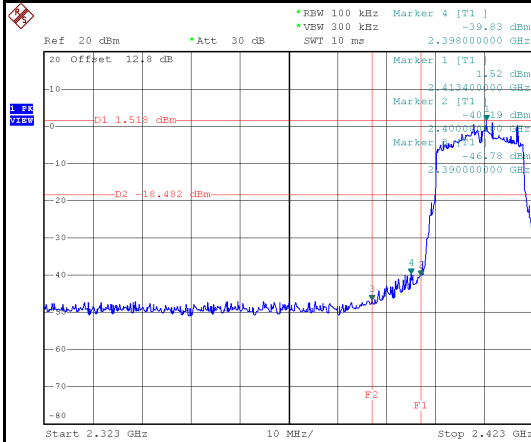
Date: 19.JUN.2023 15:43:53



Date: 19.JUN.2023 15:44:00

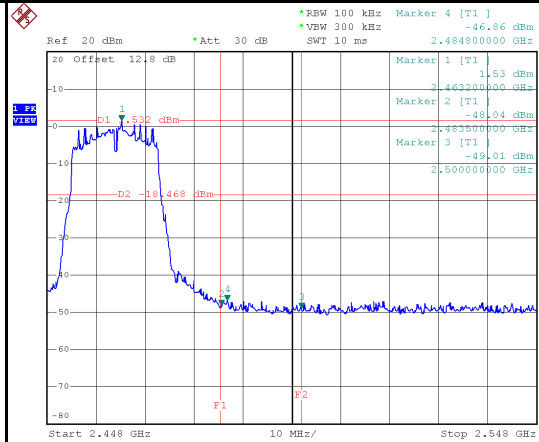
Test Mode IEEE 802.11n (HT20)

Low Bandedge-2412 MHz



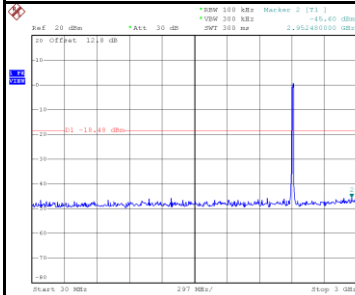
Date: 19.JUN.2023 16:13:24

High Bandedge-2462 MHz

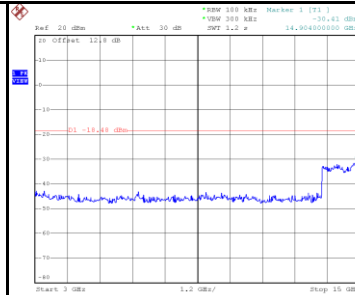


Date: 19.JUN.2023 16:21:33

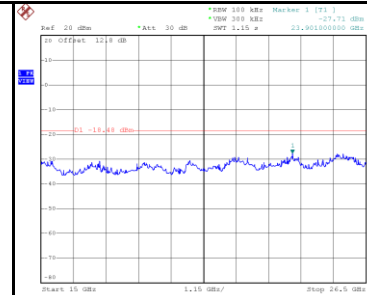
2412 MHz-10th Harmonics



Date: 19.JUN.2023 16:13:37

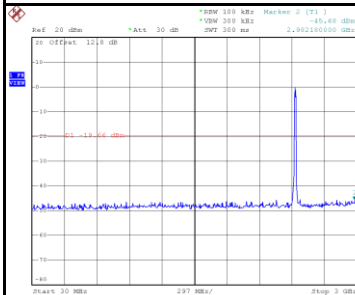


Date: 19.JUN.2023 16:13:44

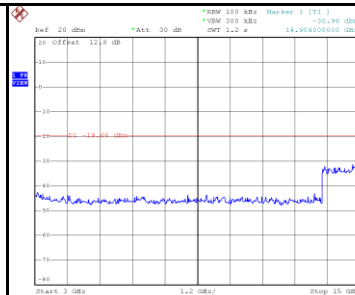


Date: 19.JUN.2023 16:13:51

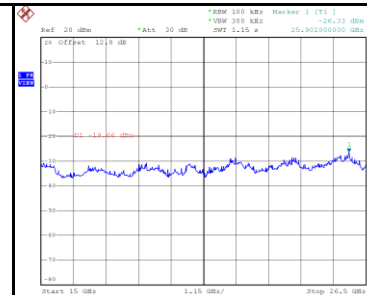
2437 MHz-10th Harmonics



Date: 19.JUN.2023 16:16:40

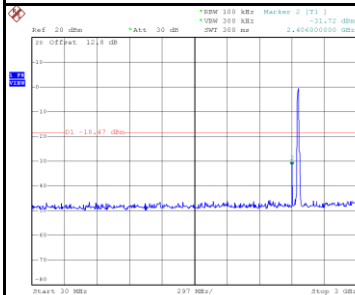


Date: 19.JUN.2023 16:16:55

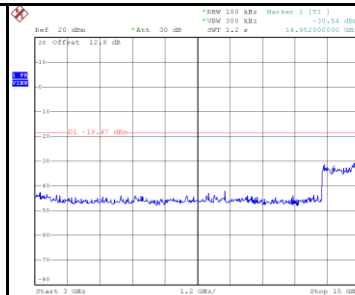


Date: 19.JUN.2023 16:17:02

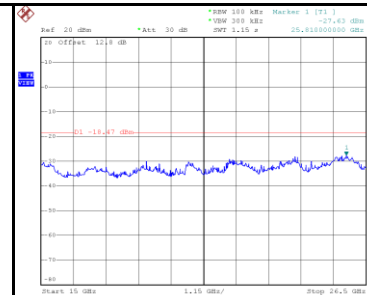
2462 MHz-10th Harmonics



Date: 19.JUN.2023 16:21:40



Date: 19.JUN.2023 16:21:53



Date: 19.JUN.2023 16:22:00

End of Test Report