

FCC Radio Test Report

FCC ID: 2AUYFRMX3686

Report No. : BTL-FCCP-8-2208G029
Equipment : Mobile Phone
Model Name : RMX3686
Brand Name : realme
Applicant : Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address : No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China.
Manufacturer : Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address : No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China.
Factory : Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address : No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China.

Radio Function : WLAN 2.4 GHz

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

Date of Receipt : 2022/8/18
Date of Test : 2022/10/13 ~ 2023/1/17
Issued Date : 2023/3/23

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.

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

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

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

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-8-2208G029	R00	Original Report.	2022/10/26	Invalid
BTL-FCCP-8-2208G029	R01	Updated the data of bandedge.	2022/10/27	Invalid
BTL-FCCP-8-2208G029	R02	Revised report to address TAF Audit's comments.	2023/3/23	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 facilities used to collect the test data in this report:

No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

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

☒ C06 ☒ CB21 ☐ CB22

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

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

☐ C05 ☐ CB08 ☐ CB11 ☐ CB15 ☐ CB16
☒ SR11 ☐ SR05

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)
C06	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	21 °C, 58 %	AC 120 V	Paul Shen
Radiated emissions below 1 GHz	23 °C, 59 %	AC 120 V	Mark Wang
Radiated emissions above 1 GHz	23 ~ 25 °C, 59 ~ 62 %	AC 120 V	Eddie Lee Mark Wang
Bandwidth	25.6 °C, 52 %	AC 120 V	Angela Wang
Output Power	25.6 °C, 52 %	AC 120 V	Angela Wang
Power Spectral Density	25.6 °C, 52 %	AC 120 V	Angela Wang
Antenna conducted Spurious Emission	25.6 °C, 52 %	AC 120 V	Angela Wang

1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

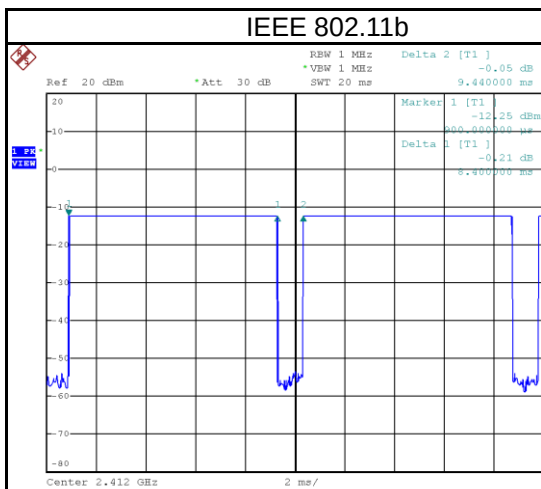
Test Software	N/A			
Mode	2412 MHz	2437 MHz	2462 MHz	Data Rate
IEEE 802.11b	16.5	16.5	16.5	1 Mbps
IEEE 802.11g	13	17	12.5	6 Mbps
IEEE 802.11n (HT20)	11.5	17	11	MCS 8
IEEE vht20	11.5	17	11	MCS 0
IEEE 802.11ax (HE20)	12	13	11	MCS 0
Mode	2422 MHz	2437 MHz	2452 MHz	Data Rate
IEEE 802.11n (HT40)	6.5	16	8	MCS 8
IEEE vht40	6.5	17	8	MCS 0
IEEE 802.11ax (HE40)	6.5	16	7	MCS 0

1.5 DUTY CYCLE

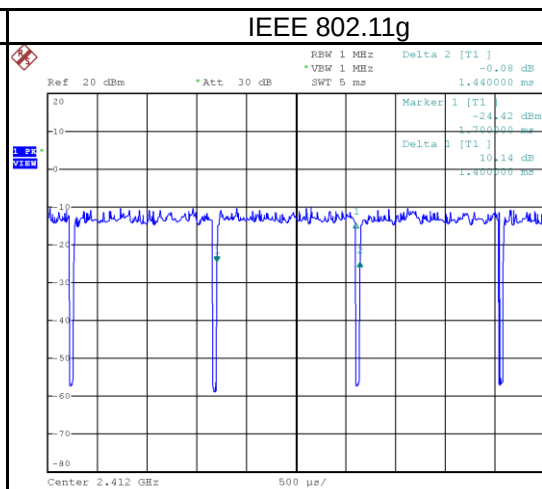
If duty cycle is $\geq 98\%$, duty factor is not required.

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

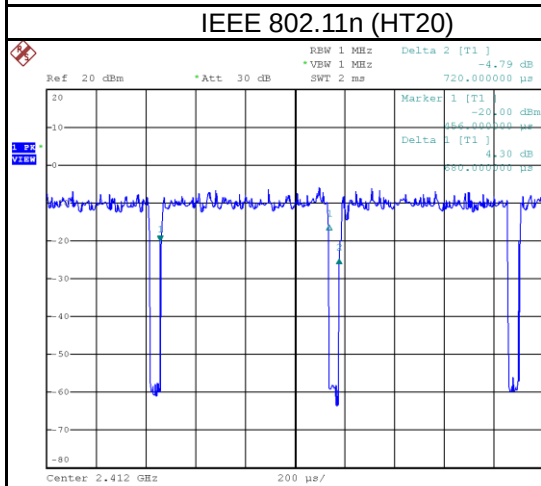
Remark	Delta 1			Delta 2	On Time/Period	10 log(1/Duty Cycle)
Mode	ON (ms)	Numbers (ON)	On Time (B) (ms)	Period (ON+OFF) (ms)	Duty Cycle (%)	Duty Factor (dB)
IEEE 802.11b	8.400	1	8.400	9.440	88.98%	0.51
IEEE 802.11g	1.400	1	1.400	1.440	97.22%	0.12
IEEE 802.11n (HT20)	0.680	1	0.680	0.720	94.44%	0.25
IEEE 802.11n (HT40)	0.346	1	0.346	0.388	89.18%	0.50
IEEE vht20	0.688	1	0.688	0.728	94.51%	0.25
IEEE vht40	0.356	1	0.356	0.398	89.45%	0.48
IEEE 802.11ax (HE20)	0.544	1	0.544	0.586	92.83%	0.32
IEEE 802.11ax (HE40)	0.304	1	0.304	0.346	87.86%	0.56



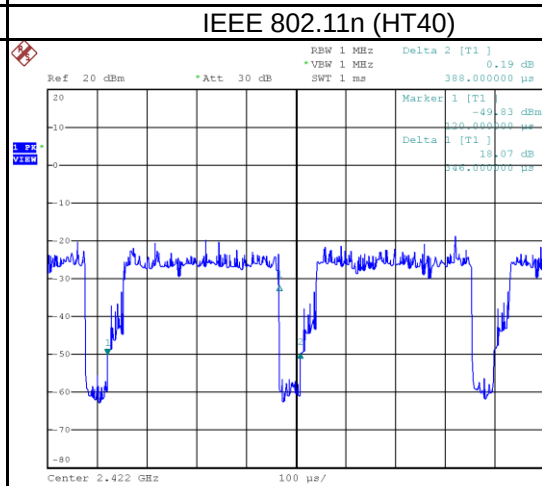
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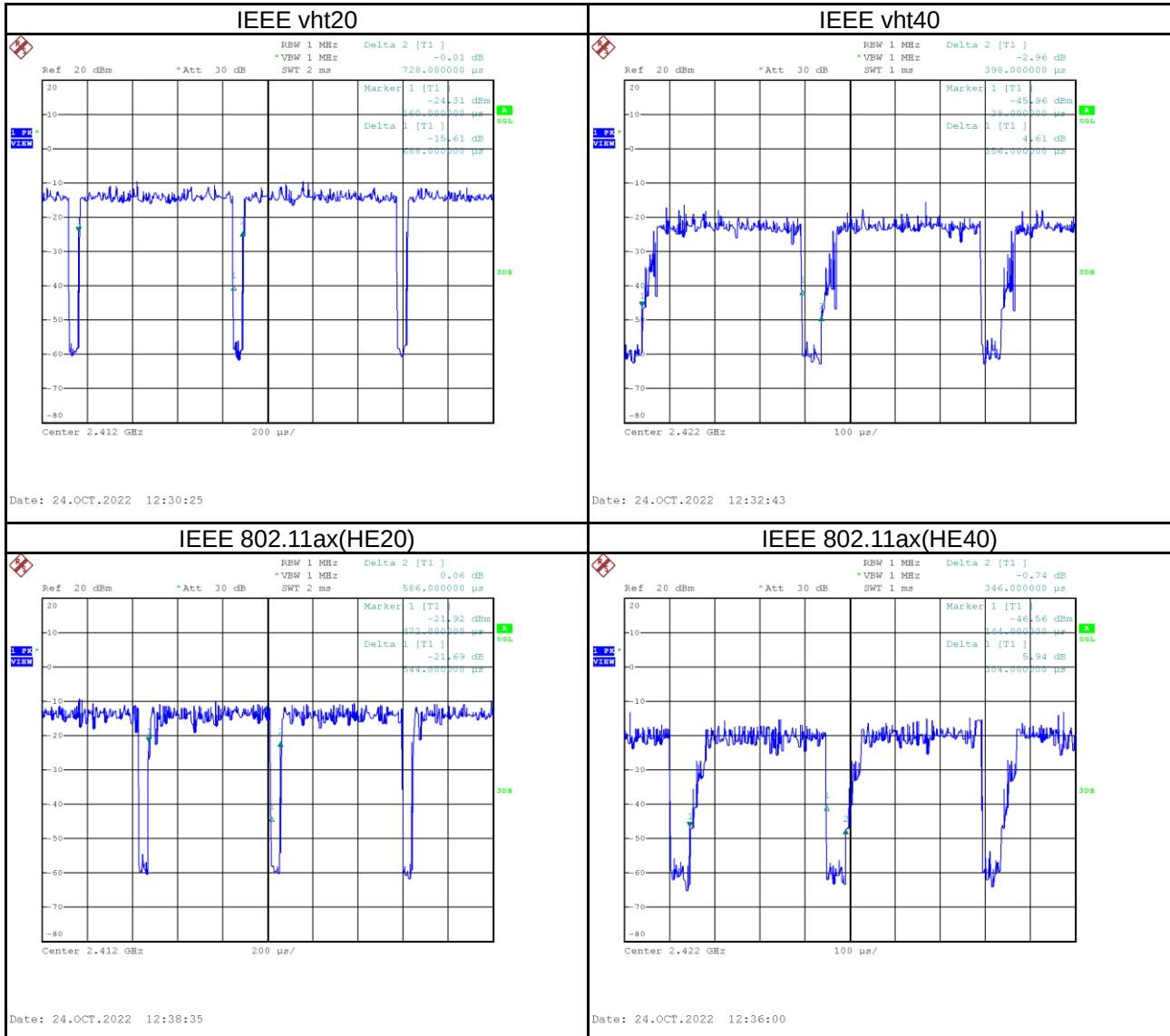
Date: 24.OCT.2022 12:19:40



Date: 24.OCT.2022 12:28:07



Date: 24.OCT.2022 12:34:52



2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Mobile Phone
Model Name	RMX3686
Brand Name	realme
Model Difference	N/A
Power Source	#1 DC voltage supplied from AC/DC Adapter. #2 Supplied from Li-ion battery. #3 Supplied from USB port.
Power Rating	#1 For VCB7CAUH: 1. I/P: 100-130V~ 50/60Hz 1.8A O/P: 5V === 2A or 5-11V === 5A(MAX) I/P: 200-240V~ 50/60Hz 1.8A O/P: 5V === 2A or 5-11V === 6.1A(MAX) For VCB8JAUH: 1. I/P: 100-130V~ 50/60Hz 2.0A O/P: 5V === 2A or 5.0-11.0V === 6.1A MAX (67W MAX) 2. I/P: 200-240V~ 50/60Hz 2.0A O/P: 5V === 2A or 5.0-11.0V === 7.3A MAX (80W MAX) #2 DC 3.87V, 4890mAh/18.92Wh (Min) #3 DC 5V
Products Covered	2 * Adapter: (1) VCB7CAUH (2) VCB8JAUH 1 * Li-ion battery: realme / BLP951 1 * TYPE-C Cable
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 vht: 256QAM IEEE 802.11ax: 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 vht: up to 400 Mbps IEEE 802.11ax: up to 573.6 Mbps
Output Power Max.	IEEE 802.11b: 22.13 dBm (0.1633 W) IEEE 802.11g: 26.78 dBm (0.4764 W) IEEE 802.11n (HT20): 26.59 dBm (0.4560 W) IEEE 802.11n (HT40): 26.31 dBm (0.4279 W) IEEE vht20: 26.94 dBm (0.4943 W) IEEE vht40: 26.24 dBm (0.4211 W) IEEE 802.11ax(HE20) : 25.48 dBm (0.3532 W) IEEE 802.11ax(HE40) : 27.06 dBm (0.5078 W)
Test Model	RMX3686
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:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20), IEEE vht20, IEEE 802.11ax(HE20)					
CH03 - CH09 for IEEE 802.11n(HT40), IEEE vht40, IEEE 802.11ax(HE40)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		

(3) Table for Filed Antenna:

Ant.	Brand Name	Model Name	Type	Connector	Frequency (MHz)	Gain (dBi)
1	realme	Ant 2	IFA	N/A	2400-2500	-2.4
2		Ant 8				-1.9

Note:

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

$$\text{Directional gain} = 10 \cdot \log\left\{\left[10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(Gn/20)}\right]^2 / N_{\text{ANT}}\right\} = 0.86 \text{ dBi} < 6 \text{ dBi}$$

(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 802.11 n (HT40)	09	-
Transmitter Radiated Emissions (above 1GHz)	TX Mode_ IEEE 802.11b	01/11	Bandedge
	TX Mode_ IEEE 802.11g		
	TX Mode_ IEEE 802.11n (HT20)		
	IEEE 802.11ax(HE20)		
	TX Mode_ IEEE 802.11n (HT40)	03/09	
	IEEE 802.11ax(HE40)		
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)		
	IEEE 802.11ax(HE20)		
	TX Mode_ IEEE 802.11n (HT40)	03/06/09	
	IEEE 802.11ax(HE40)		
Bandwidth & Antenna conducted Spurious Emission	TX Mode_ IEEE 802.11b	01/06/11	-
	TX Mode_ IEEE 802.11g		
	TX Mode_ IEEE 802.11n (HT20)		
	IEEE 802.11ax(HE20)		
	TX Mode_ IEEE 802.11n (HT40)	03/06/09	
	IEEE 802.11ax(HE40)		
Output Power & Power Spectral Density &	TX Mode_ IEEE 802.11b	01/06/11	-
	TX Mode_ IEEE 802.11g		
	TX Mode_ IEEE 802.11n (HT20)		
	IEEE vht20		
	IEEE 802.11ax(HE20)		
	TX Mode_ IEEE 802.11n (HT40)	03/06/09	
	IEEE vht40		

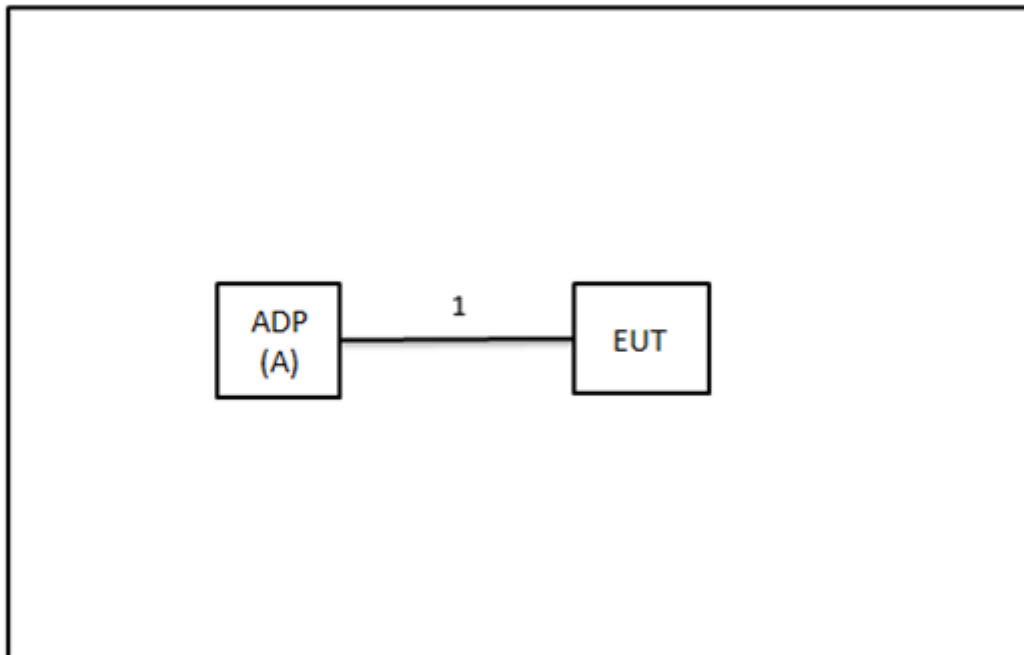
NOTE:

- (1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Vertical) is recorded.
- (2) The measurements for Output Power are tested, the worst case are IEEE 802.11a mode, IEEE 802.11n(HT20) mode, IEEE 802.11n(HT40) mode and IEEE 802.11ax(HE20) mode, IEEE 802.11ax(HE40) mode, only the worst cases are documented for other test items.
- (3) For AC power line conducted emissions and radiated emissions below 1 GHz test, all adapters had been pre-tested and in this report only recorded the worst adapter (Model: VCB8JAUH).

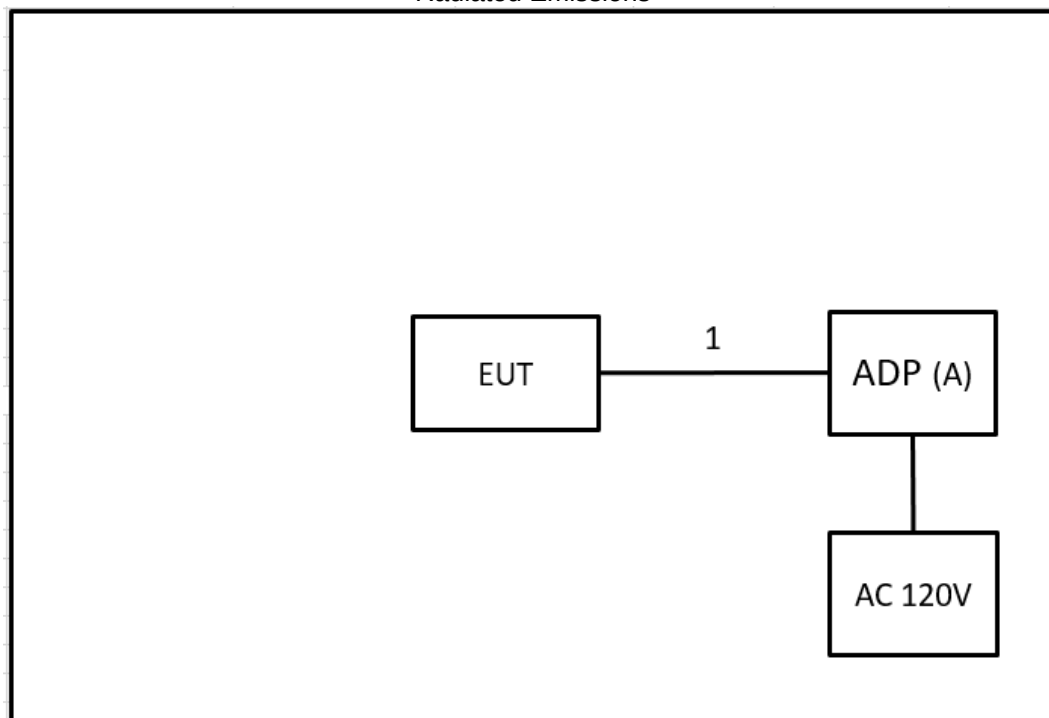
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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	ADP	SUPERVOOC	VCB7CAUH	N/A	Supplied by test requester.

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

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

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

NOTE:

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

Reading Level		Correct Factor		Measurement Value
38.22	+	3.45	=	41.67

Measurement Value		Limit Value		Margin Level
41.67	-	60	=	-18.33

The following table is the setting of the receiver.

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

3.2 TEST PROCEDURE

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

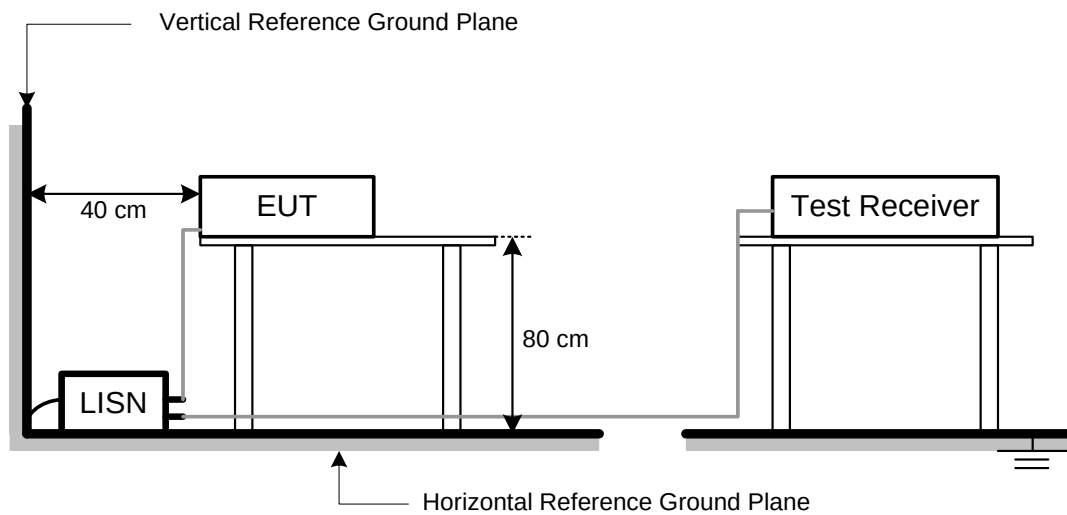
NOTE:

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

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.

4 RADIATED EMISSIONS TEST

4.1 LIMIT

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

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF RADIATED EMISSIONS MEASUREMENT (Above 1000 MHz)

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

NOTE:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value
 Calculation example:

Reading Level		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

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

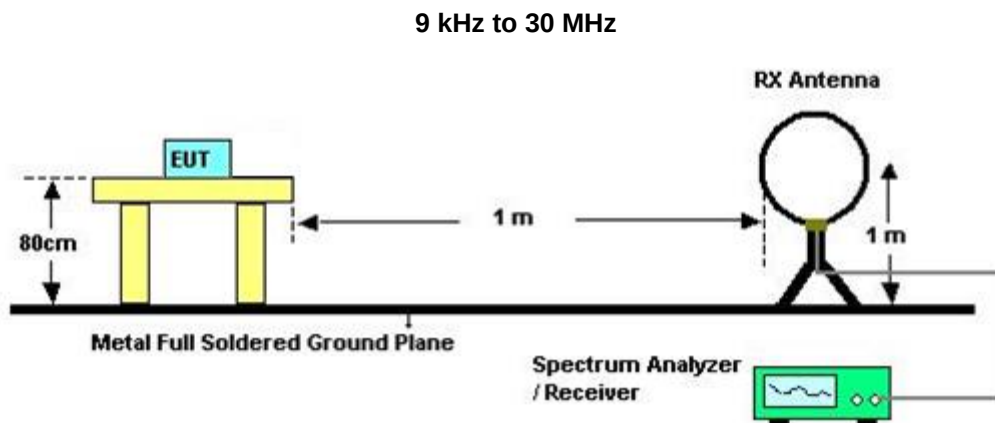
4.2 TEST PROCEDURE

- 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.

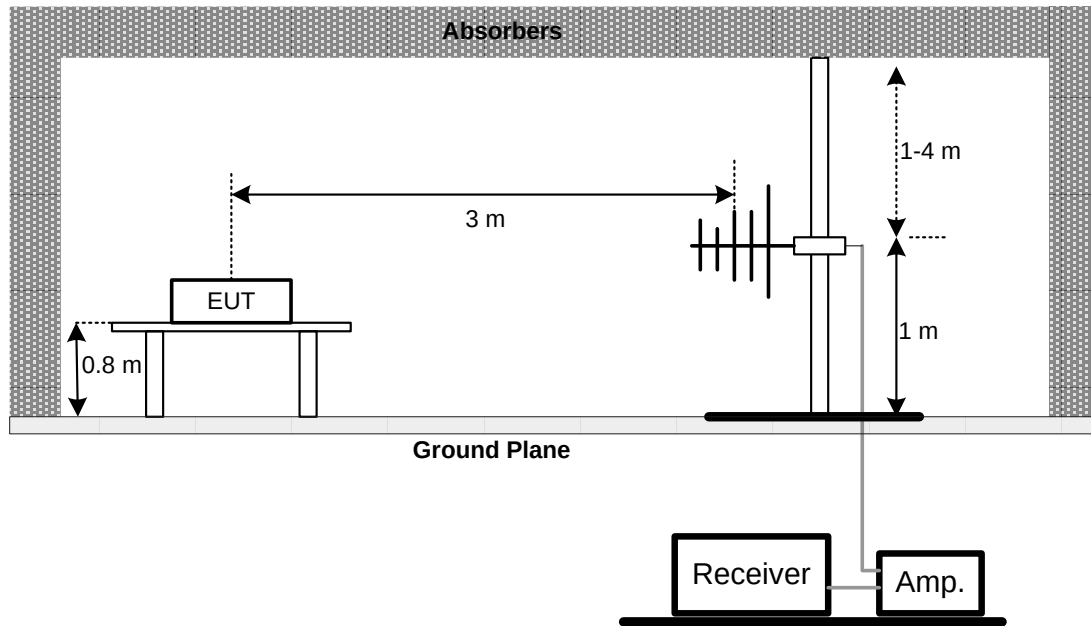
4.3 DEVIATION FROM TEST STANDARD

No deviation.

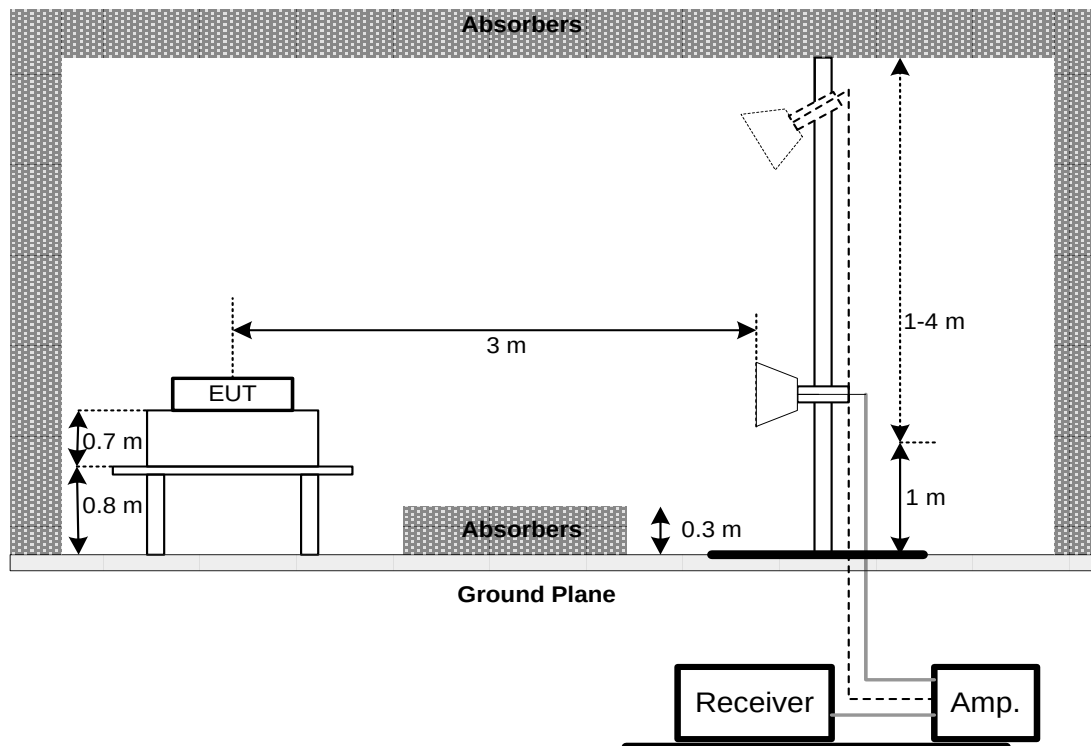
4.4 TEST SETUP



30 MHz to 1 GHz



Above 1 GHz



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT – BELOW 30 MHZ

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

FCC Part15, Subpart C (15.247)		
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

FCC Part15, Subpart C (15.247)		
Section	Test Item	Limit
15.247(b)	Maximum Output Power	1 Watt or 30dBm

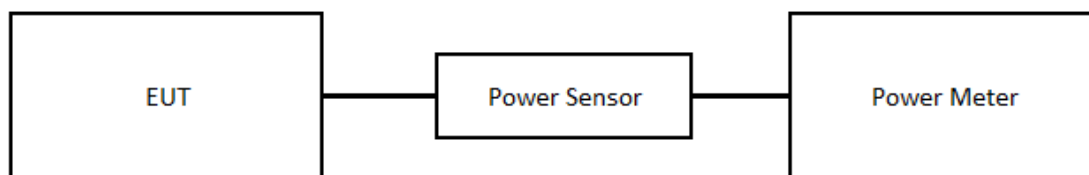
6.2 TEST PROCEDURE

- 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

FCC Part15, Subpart C (15.247)		
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	101497	2022/5/13	2023/5/12
2	Test Cable	EMCI	EMCCFD300-BM-BMR-9000	170501	2022/8/3	2023/8/2
3	EMI Test Receiver	R&S	ESR3	102950	2022/4/12	2023/4/11
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	2022/9/19	2023/9/18
2	Preamplifier	EMCI	EMC118A45SE	980819	2022/3/8	2023/3/7
3	Preamplifier	EMCI	EMC001340	980555	2022/4/6	2023/4/5
4	Test Cable	EMCI	EMC104-SM-SM-1000	220319	2022/3/15	2023/3/14
5	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2022/3/15	2023/3/14
6	Test Cable	EMCI	EMC104-SM-SM-7000	220324	2022/3/15	2023/3/14
7	EXA Signal Analyzer	keysight	N9020A	MY57120120	2022/3/7	2023/3/6
8	Loop Ant	Electro-Metrics	EMCI-LPA600	274	2022/6/16	2023/6/15
9	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2022/5/18	2023/5/17
10	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2022/5/18	2023/5/17
11	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2022/5/20	2023/5/19
12	6dB Attenuator	EMCI	EMCI-N-6-06	AT-N0625	2022/5/20	2023/5/19
13	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A
14	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	FSP38	101139	2022/3/2	2023/3/1

Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Power Meter	Anritsu	ML2495A	1128008	2022/6/1	2023/5/31
2	Power Sensor	Anritsu	MA2411B	1126001	2022/6/1	2023/5/31

Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP38	101139	2022/3/2	2023/3/1

Antenna conducted Spurious Emission						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP38	101139	2022/3/2	2023/3/1

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

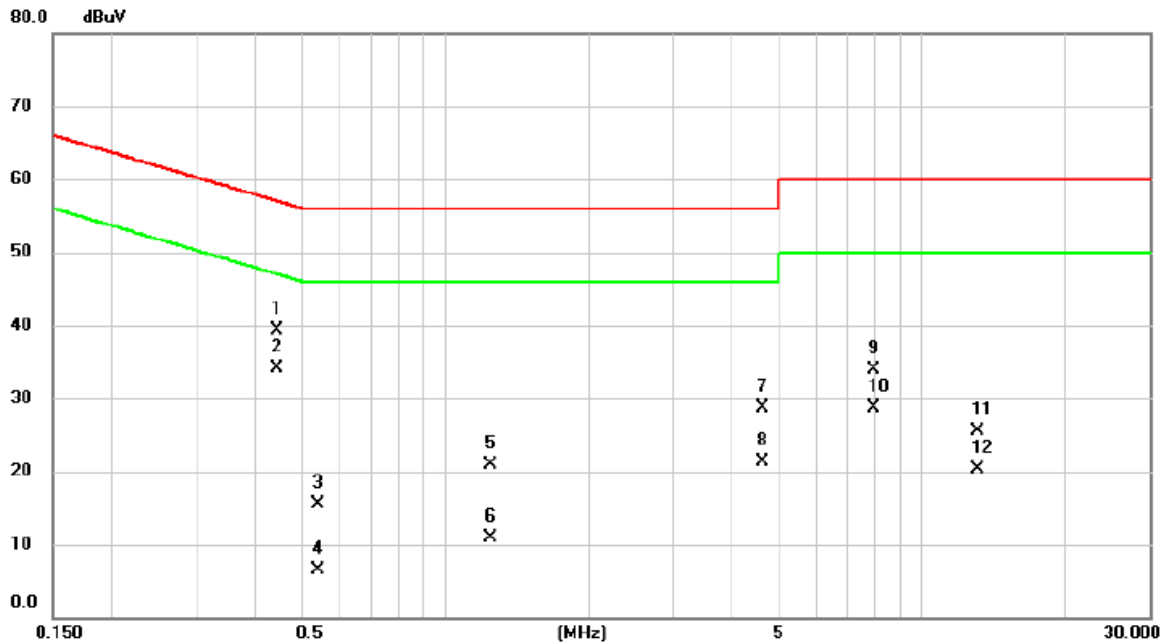
Please refer to document Appendix No.: TP-2208G029-FCCP-2 (APPENDIX-TEST PHOTOS).

11 EUT PHOTOS

Please refer to document Appendix No.: EP-2208G029-1 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2022/10/21
Test Frequency	-	Phase	Line



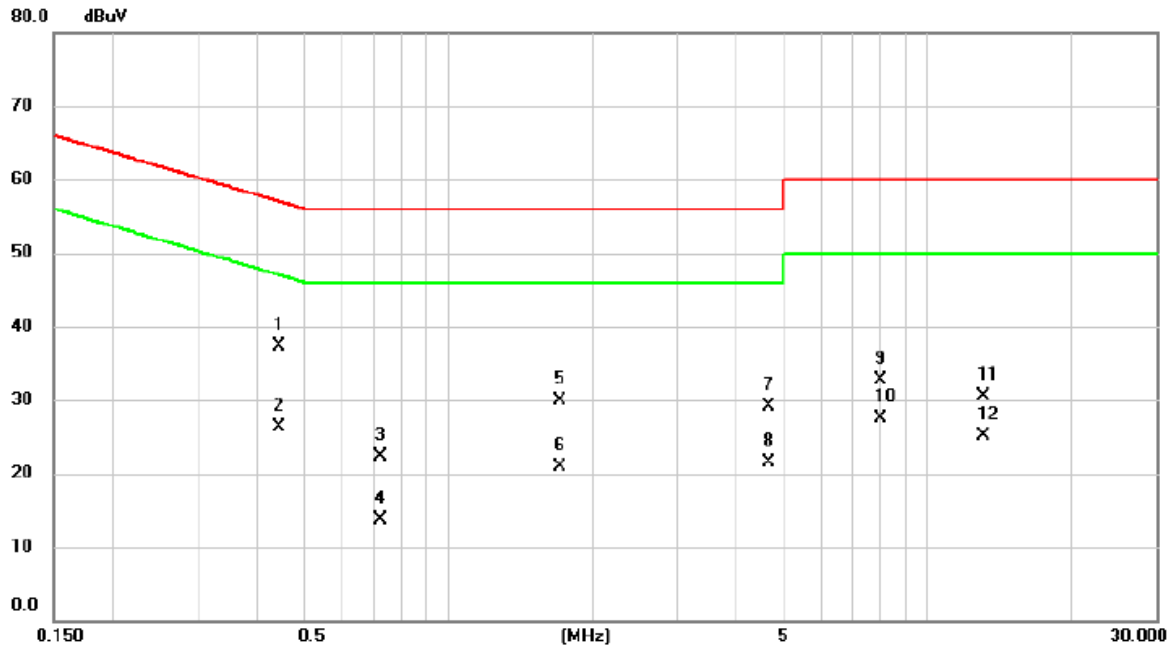
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.4447	29.55	9.69	39.24	56.97	-17.73	QP	
2	*	0.4447	24.44	9.69	34.13	46.97	-12.84	AVG	
3		0.5392	5.80	9.69	15.49	56.00	-40.51	QP	
4		0.5392	-3.28	9.69	6.41	46.00	-39.59	AVG	
5		1.2458	11.18	9.71	20.89	56.00	-35.11	QP	
6		1.2458	1.24	9.71	10.95	46.00	-35.05	AVG	
7		4.6433	18.82	9.81	28.63	56.00	-27.37	QP	
8		4.6433	11.40	9.81	21.21	46.00	-24.79	AVG	
9		7.9148	24.11	9.86	33.97	60.00	-26.03	QP	
10		7.9148	18.77	9.86	28.63	50.00	-21.37	AVG	
11		13.0403	15.56	9.89	25.45	60.00	-34.55	QP	
12		13.0403	10.36	9.89	20.25	50.00	-29.75	AVG	

REMARKS:

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

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

Test Mode	Normal	Tested Date	2022/10/21
Test Frequency	-	Phase	Neutral

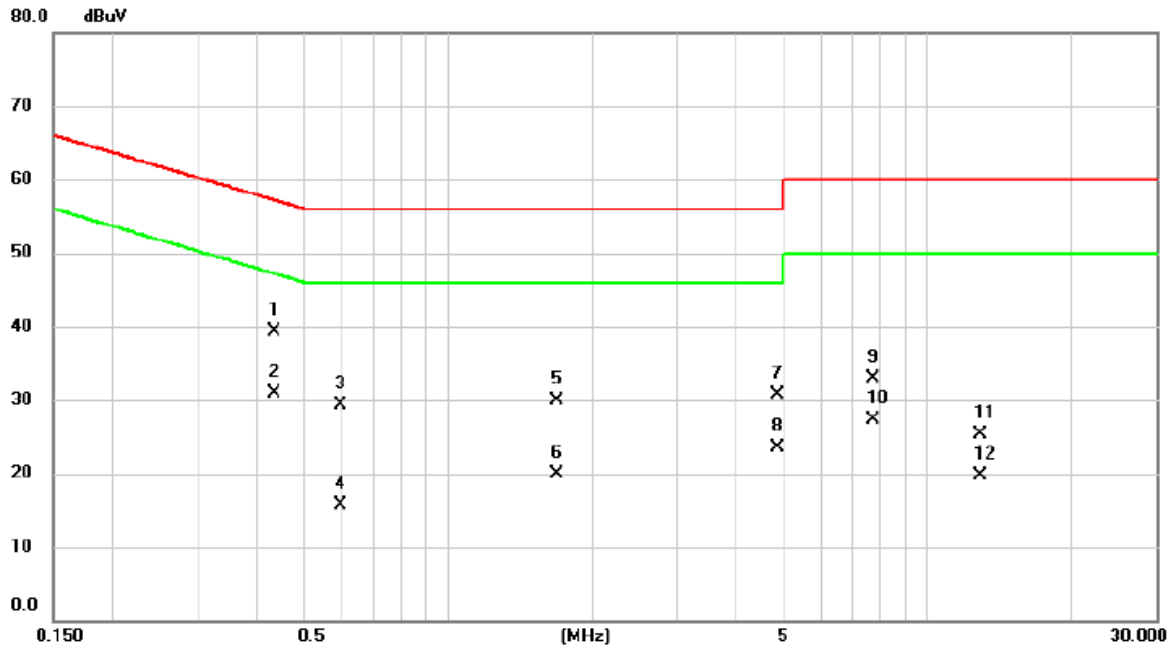


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.4425	27.64	9.69	37.33	57.01	-19.68	QP	
2		0.4425	16.67	9.69	26.36	47.01	-20.65	AVG	
3		0.7215	12.56	9.69	22.25	56.00	-33.75	QP	
4		0.7215	4.08	9.69	13.77	46.00	-32.23	AVG	
5		1.7160	20.08	9.73	29.81	56.00	-26.19	QP	
6		1.7160	11.12	9.73	20.85	46.00	-25.15	AVG	
7		4.6658	19.35	9.82	29.17	56.00	-26.83	QP	
8		4.6658	11.59	9.82	21.41	46.00	-24.59	AVG	
9		7.9890	22.84	9.87	32.71	60.00	-27.29	QP	
10		7.9890	17.55	9.87	27.42	50.00	-22.58	AVG	
11		13.0358	20.61	9.93	30.54	60.00	-29.46	QP	
12		13.0358	15.14	9.93	25.07	50.00	-24.93	AVG	

REMARKS:

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

Test Mode	Idle	Tested Date	2022/10/21
Test Frequency	-	Phase	Line



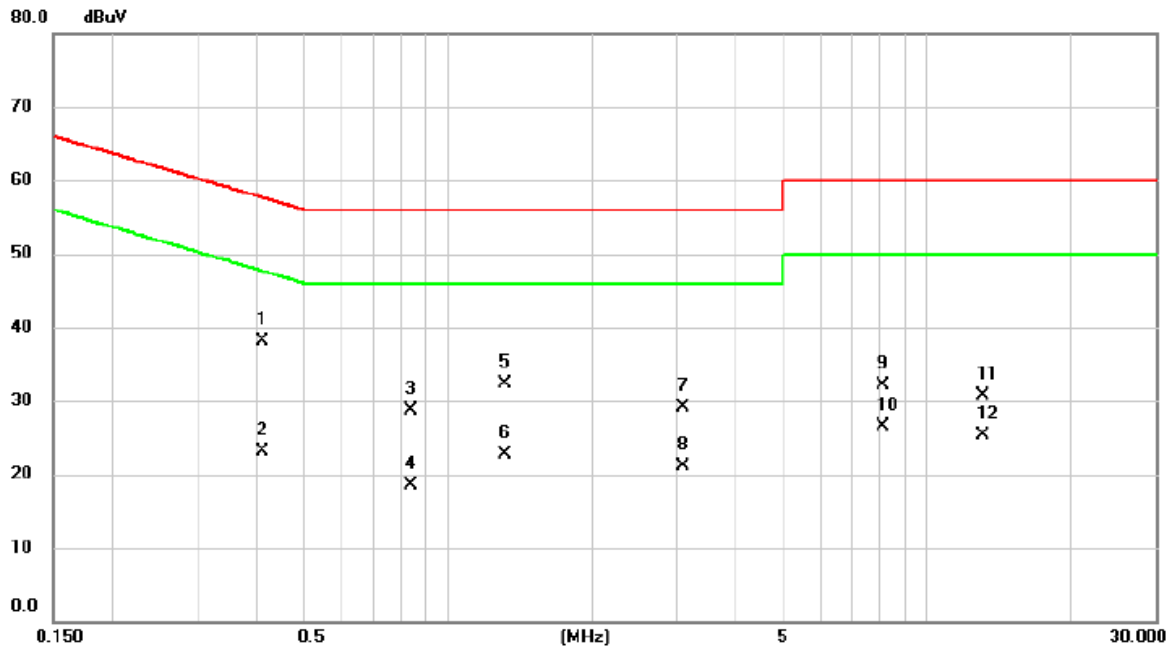
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.4335	29.53	9.69	39.22	57.19	-17.97	QP	
2	*	0.4335	21.12	9.69	30.81	47.19	-16.38	AVG	
3		0.5977	19.70	9.69	29.39	56.00	-26.61	QP	
4		0.5977	5.93	9.69	15.62	46.00	-30.38	AVG	
5		1.6823	20.08	9.74	29.82	56.00	-26.18	QP	
6		1.6823	10.07	9.74	19.81	46.00	-26.19	AVG	
7		4.8728	20.78	9.83	30.61	56.00	-25.39	QP	
8		4.8728	13.69	9.83	23.52	46.00	-22.48	AVG	
9		7.6785	23.09	9.85	32.94	60.00	-27.06	QP	
10		7.6785	17.40	9.85	27.25	50.00	-22.75	AVG	
11		12.8760	15.37	9.90	25.27	60.00	-34.73	QP	
12		12.8760	9.71	9.90	19.61	50.00	-30.39	AVG	

REMARKS:

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

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

Test Mode	Idle	Tested Date	2022/10/21
Test Frequency	-	Phase	Neutral



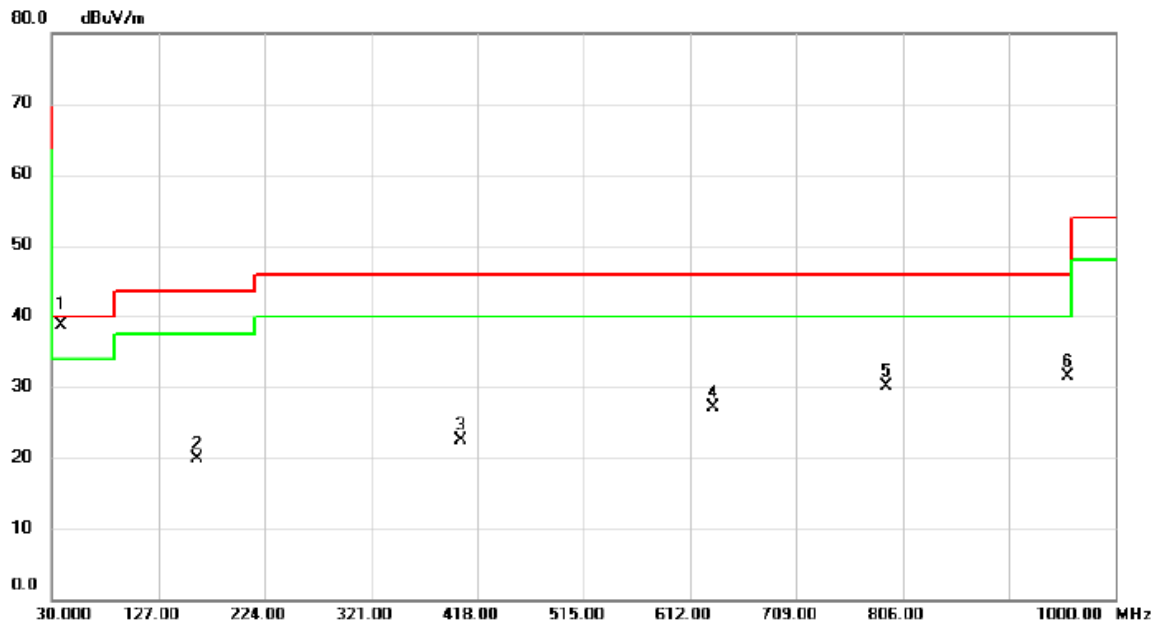
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.4110	28.51	9.69	38.20	57.63	-19.43	QP	
2		0.4110	13.38	9.69	23.07	47.63	-24.56	AVG	
3		0.8385	18.97	9.69	28.66	56.00	-27.34	QP	
4		0.8385	8.78	9.69	18.47	46.00	-27.53	AVG	
5		1.3133	22.52	9.71	32.23	56.00	-23.77	QP	
6		1.3133	12.97	9.71	22.68	46.00	-23.32	AVG	
7		3.0953	19.30	9.77	29.07	56.00	-26.93	QP	
8		3.0953	11.25	9.77	21.02	46.00	-24.98	AVG	
9		8.0745	22.32	9.87	32.19	60.00	-27.81	QP	
10		8.0745	16.68	9.87	26.55	50.00	-23.45	AVG	
11		13.0943	20.75	9.93	30.68	60.00	-29.32	QP	
12		13.0943	15.32	9.93	25.25	50.00	-24.75	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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/1/17
Test Frequency	2452MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

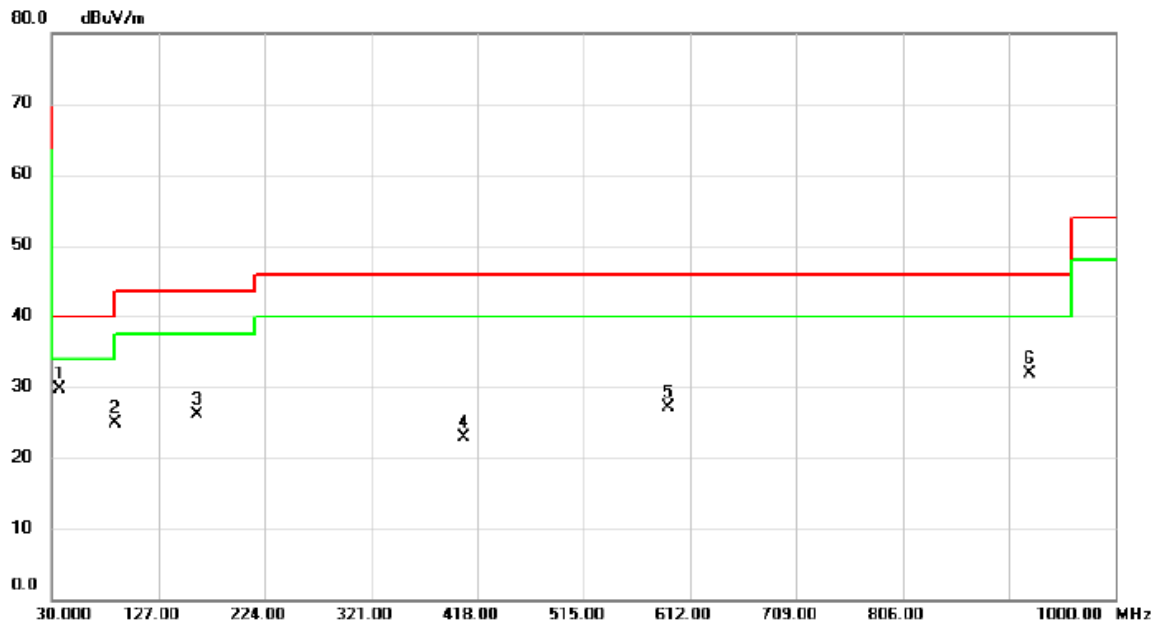


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	38.0510	50.85	-12.11	38.74	40.00	-1.26	QP	
2		162.7607	31.76	-11.92	19.84	43.50	-23.66	peak	
3		402.4800	31.25	-8.72	22.53	46.00	-23.47	peak	
4		633.7280	30.92	-3.74	27.18	46.00	-18.82	peak	
5		791.2883	31.36	-1.16	30.20	46.00	-15.80	peak	
6		957.0290	30.47	0.94	31.41	46.00	-14.59	peak	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/1/17
Test Frequency	2452MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%



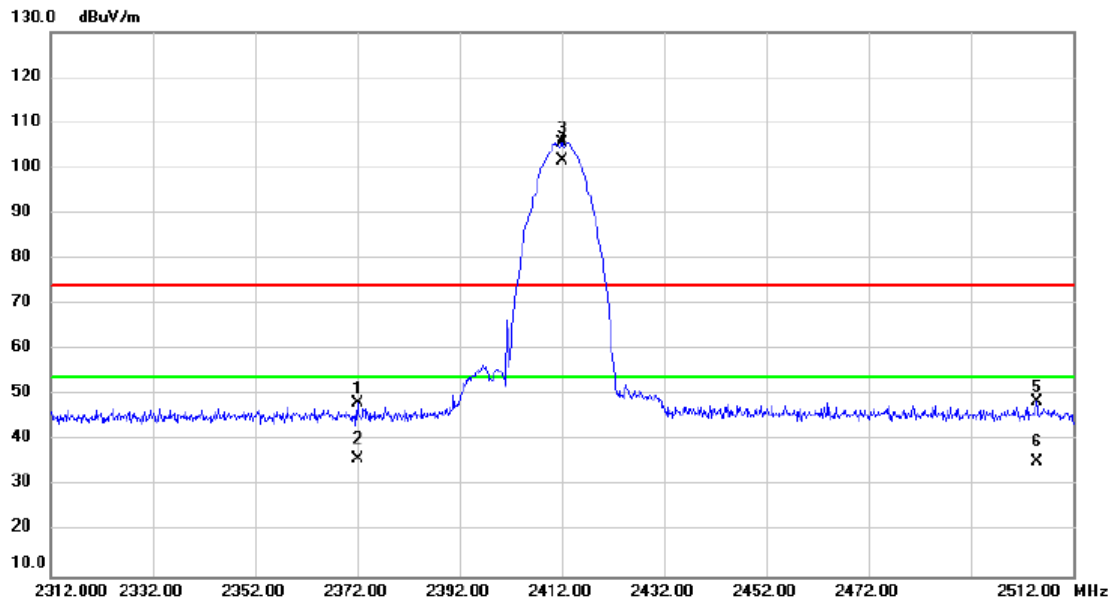
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	37.5013	41.89	-12.18	29.71	40.00	-10.29	peak	
2		87.6827	42.17	-17.33	24.84	40.00	-15.16	peak	
3		163.2133	38.00	-11.94	26.06	43.50	-17.44	peak	
4		405.1637	31.58	-8.64	22.94	46.00	-23.06	peak	
5		592.0503	31.52	-4.40	27.12	46.00	-18.88	peak	
6		921.1713	31.48	0.40	31.88	46.00	-14.12	peak	

REMARKS:

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

APPENDIX C RADIATED EMISSIONS - ABOVE 1 GHZ

Test Mode	IEEE 802.11b	Test Date	2022/10/25
Test Frequency	2412MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

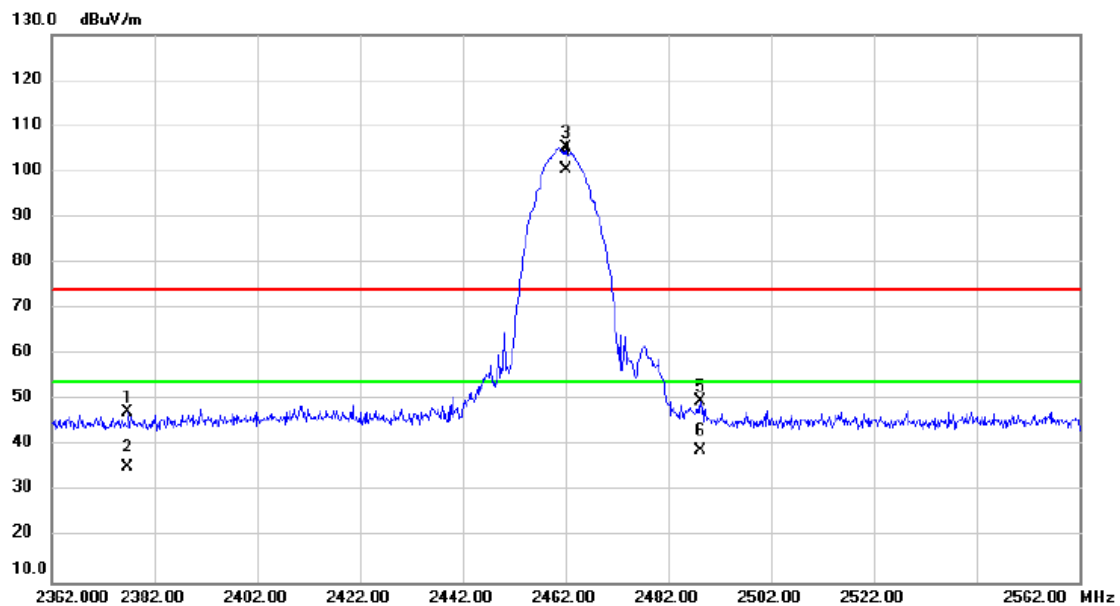


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2372.113	53.97	-5.79	48.18	74.00	-25.82	peak	
2		2372.113	41.68	-5.79	35.89	54.00	-18.11	AVG	
3	X	2412.000	111.33	-5.74	105.59	74.00	31.59	peak	No Limit
4	*	2412.000	107.50	-5.74	101.76	54.00	47.76	AVG	No Limit
5		2504.907	54.07	-5.60	48.47	74.00	-25.53	peak	
6		2504.907	40.85	-5.60	35.25	54.00	-18.75	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/10/25
Test Frequency	2462MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

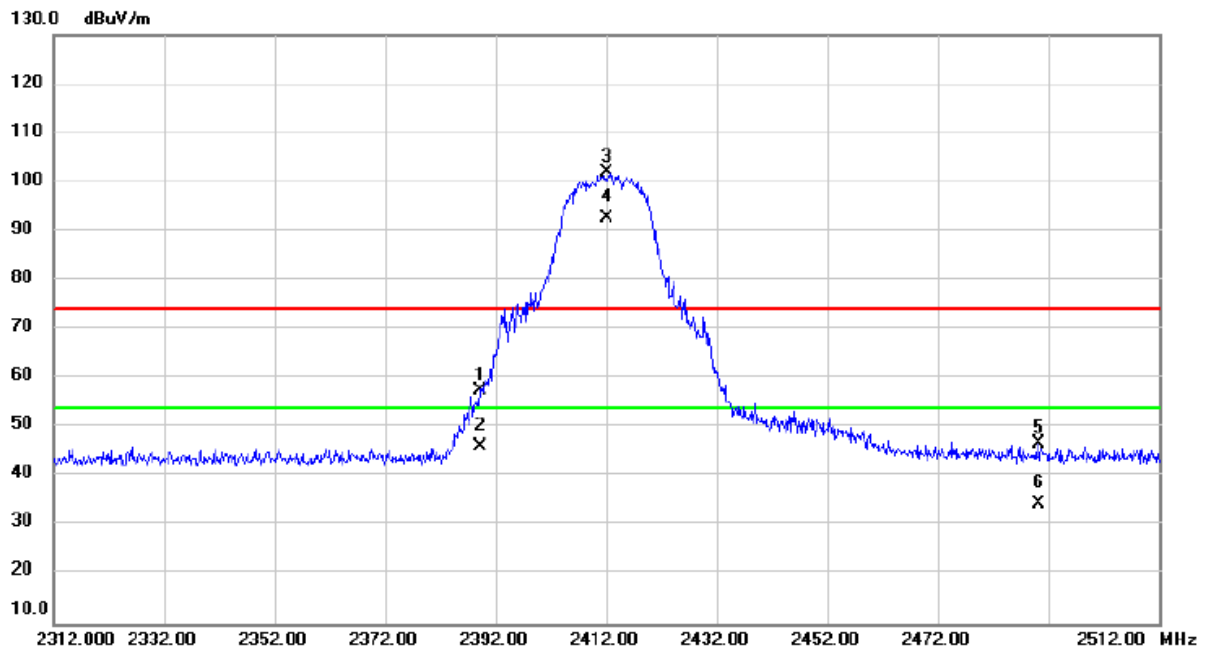


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2376.920	53.06	-5.78	47.28	74.00	-26.72	peak	
2		2376.920	41.19	-5.78	35.41	54.00	-18.59	AVG	
3	X	2462.000	110.88	-5.68	105.20	74.00	31.20	peak	No Limit
4	*	2462.000	106.10	-5.68	100.42	54.00	46.42	AVG	No Limit
5		2488.247	55.36	-5.63	49.73	74.00	-24.27	peak	
6		2488.247	44.49	-5.63	38.86	54.00	-15.14	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/10/14
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

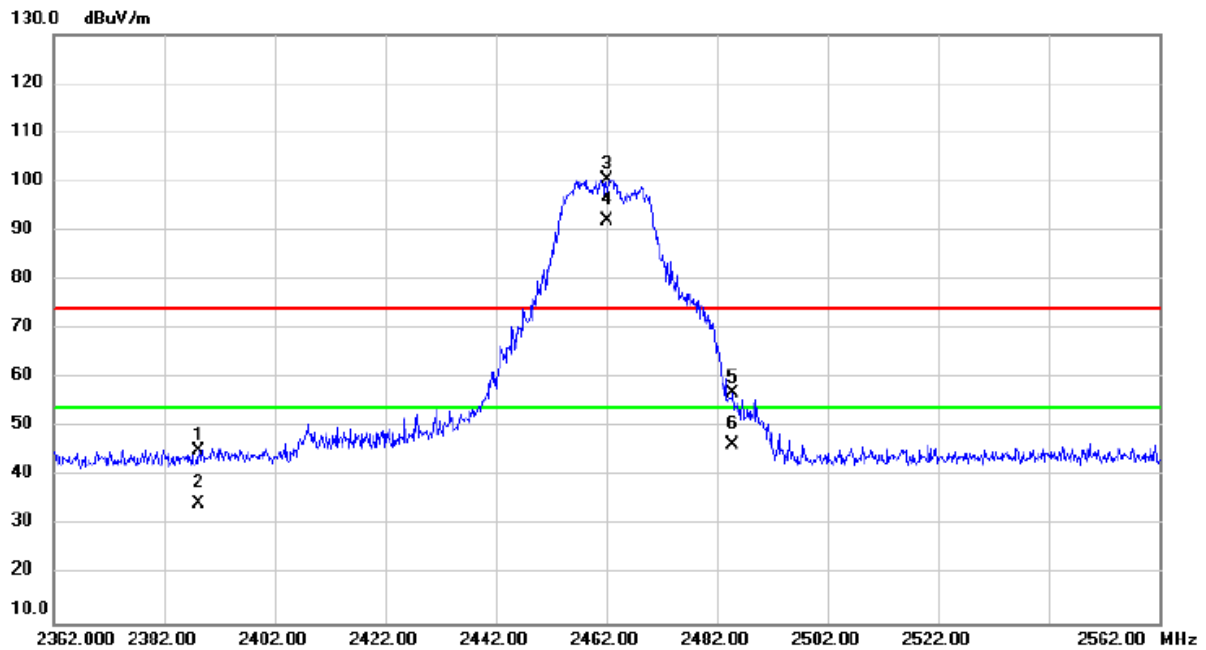


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2389.087	73.88	-16.29	57.59	74.00	-16.41	peak	
2		2389.087	62.30	-16.29	46.01	54.00	-7.99	AVG	
3	X	2412.000	118.13	-16.24	101.89	74.00	27.89	peak	No Limit
4	*	2412.000	109.00	-16.24	92.76	54.00	38.76	AVG	No Limit
5		2490.220	62.89	-16.06	46.83	74.00	-27.17	peak	
6		2490.220	50.51	-16.06	34.45	54.00	-19.55	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/10/14
Test Frequency	2462MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

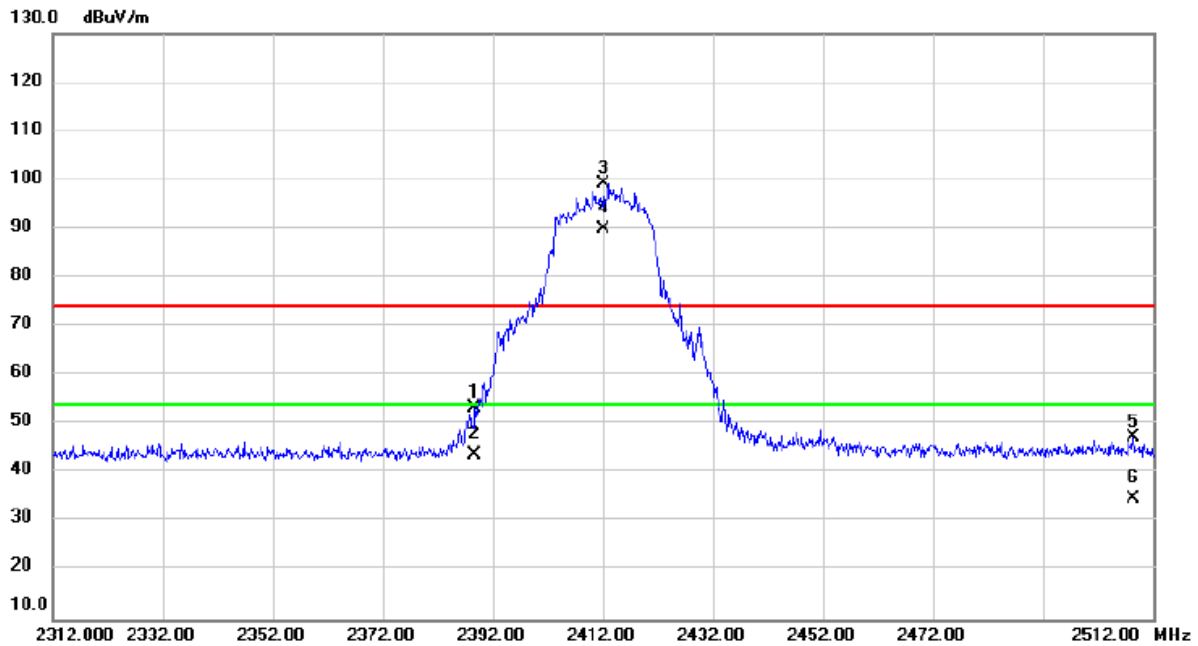


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2388.280	61.68	-16.29	45.39	74.00	-28.61	peak	
2		2388.280	50.62	-16.29	34.33	54.00	-19.67	AVG	
3	X	2462.000	116.71	-16.13	100.58	74.00	26.58	peak	No Limit
4	*	2462.000	108.18	-16.13	92.05	54.00	38.05	AVG	No Limit
5		2484.853	73.17	-16.07	57.10	74.00	-16.90	peak	
6		2484.853	62.40	-16.07	46.33	54.00	-7.67	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/10/14
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	62%



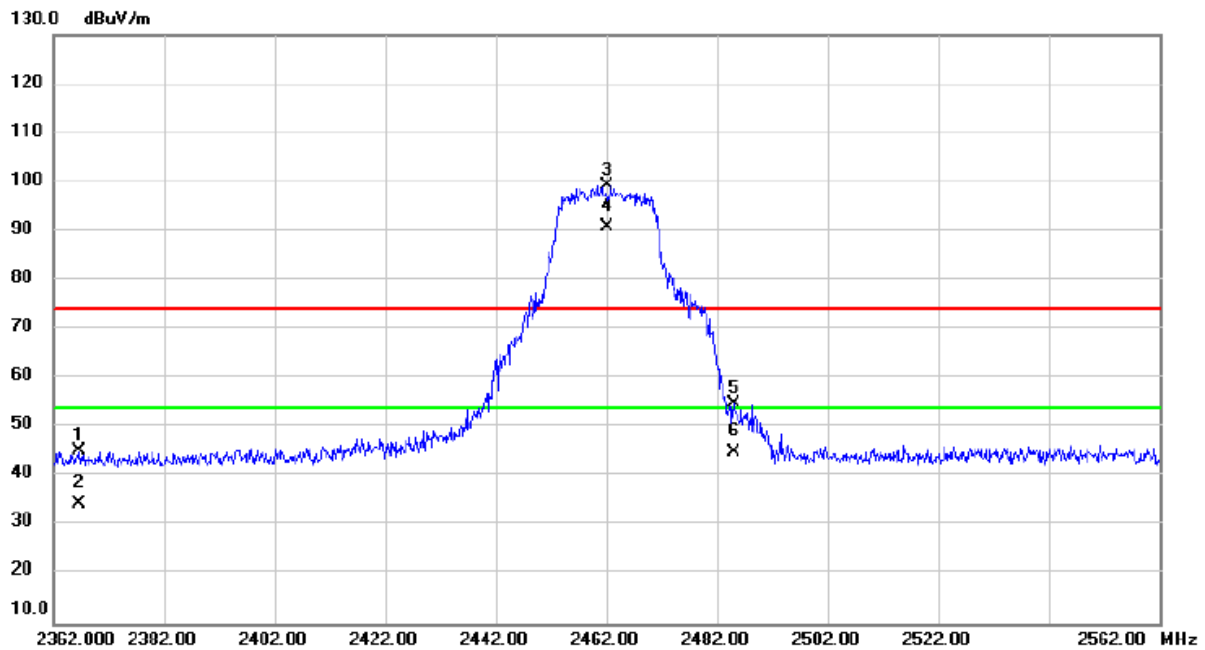
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2388.753	69.72	-16.29	53.43	74.00	-20.57	peak	
2		2388.753	60.05	-16.29	43.76	54.00	-10.24	AVG	
3	X	2412.000	115.50	-16.24	99.26	74.00	25.26	peak	No Limit
4	*	2412.000	106.33	-16.24	90.09	54.00	36.09	AVG	No Limit
5		2508.393	63.49	-16.00	47.49	74.00	-26.51	peak	
6		2508.393	50.88	-16.00	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 802.11n (HT20)	Test Date	2022/10/14
Test Frequency	2462MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

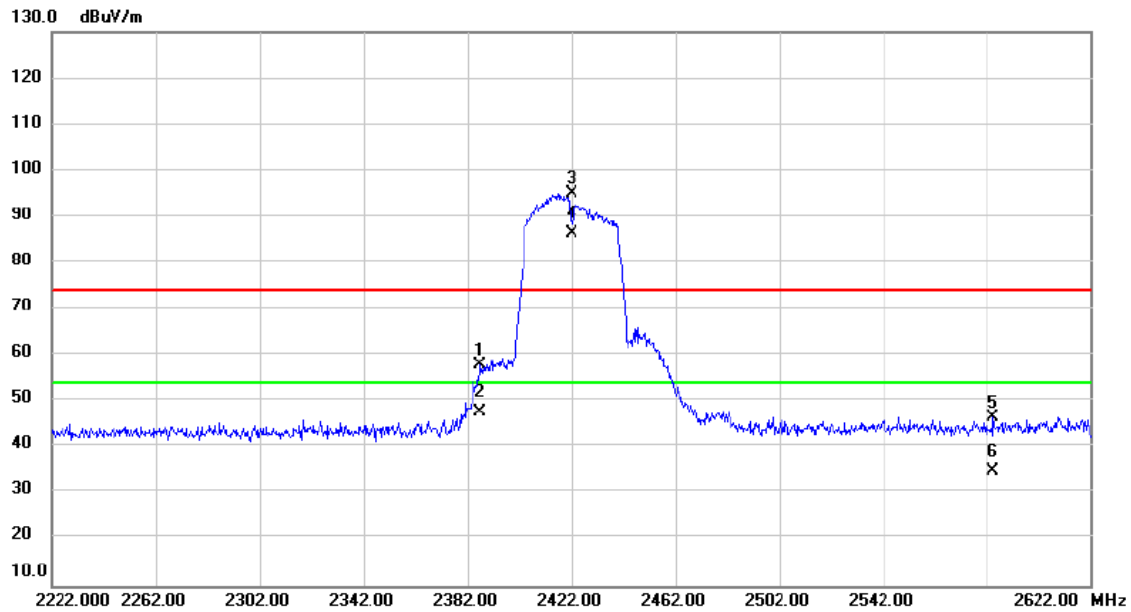


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2366.760	61.44	-16.34	45.10	74.00	-28.90	peak	
2		2366.760	50.70	-16.34	34.36	54.00	-19.64	AVG	
3	X	2462.000	115.39	-16.13	99.26	74.00	25.26	peak	No Limit
4	*	2462.000	107.02	-16.13	90.89	54.00	36.89	AVG	No Limit
5		2484.980	71.01	-16.07	54.94	74.00	-19.06	peak	
6		2484.980	61.10	-16.07	45.03	54.00	-8.97	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/10/18
Test Frequency	2422MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

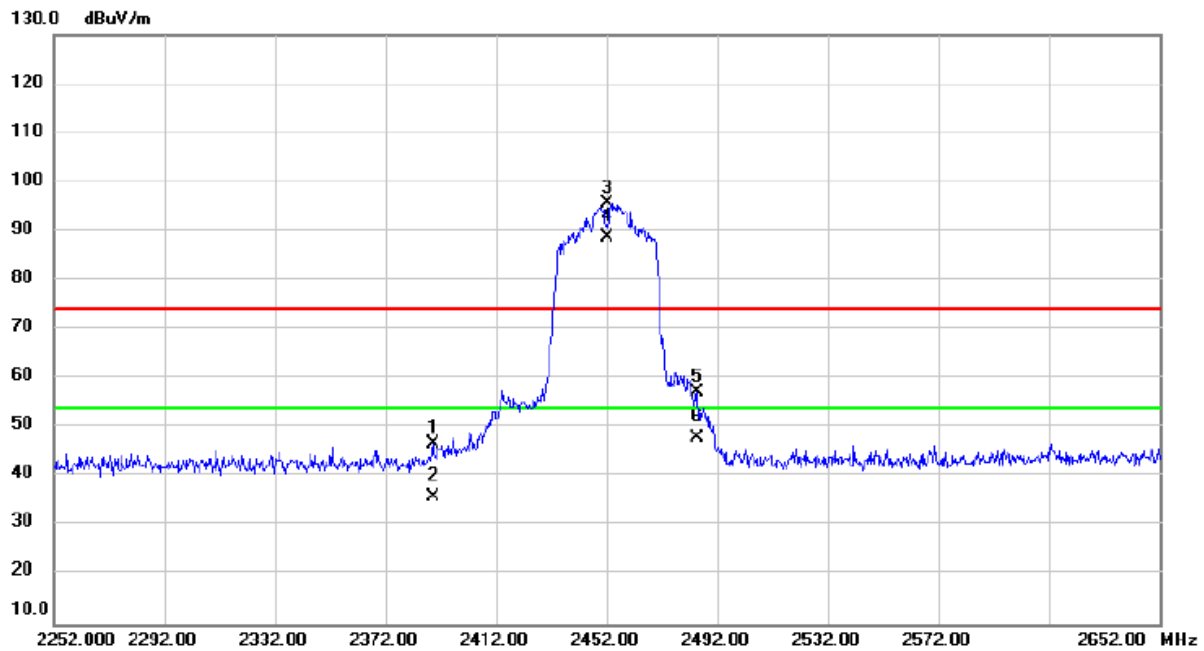


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2387.307	74.20	-16.29	57.91	74.00	-16.09	peak	
2		2387.307	64.06	-16.29	47.77	54.00	-6.23	AVG	
3	X	2422.000	111.26	-16.21	95.05	74.00	21.05	peak	No Limit
4	*	2422.000	102.41	-16.21	86.20	54.00	32.20	AVG	No Limit
5		2584.507	62.10	-15.66	46.44	74.00	-27.56	peak	
6		2584.507	50.56	-15.66	34.90	54.00	-19.10	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/10/18
Test Frequency	2452MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

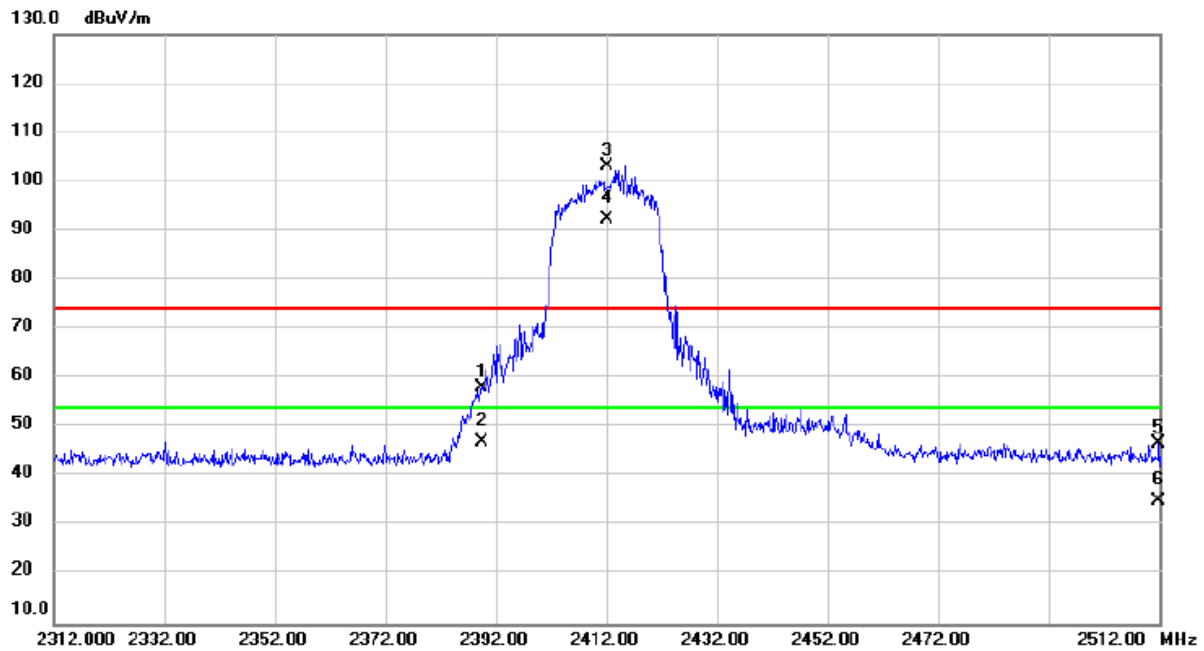


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2389.240	63.05	-16.29	46.76	74.00	-27.24	peak	
2		2389.240	52.19	-16.29	35.90	54.00	-18.10	AVG	
3	X	2452.000	111.89	-16.15	95.74	74.00	21.74	peak	No Limit
4	*	2452.000	104.85	-16.15	88.70	54.00	34.70	AVG	No Limit
5		2484.573	73.44	-16.07	57.37	74.00	-16.63	peak	
6		2484.573	63.94	-16.07	47.87	54.00	-6.13	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2022/10/17
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

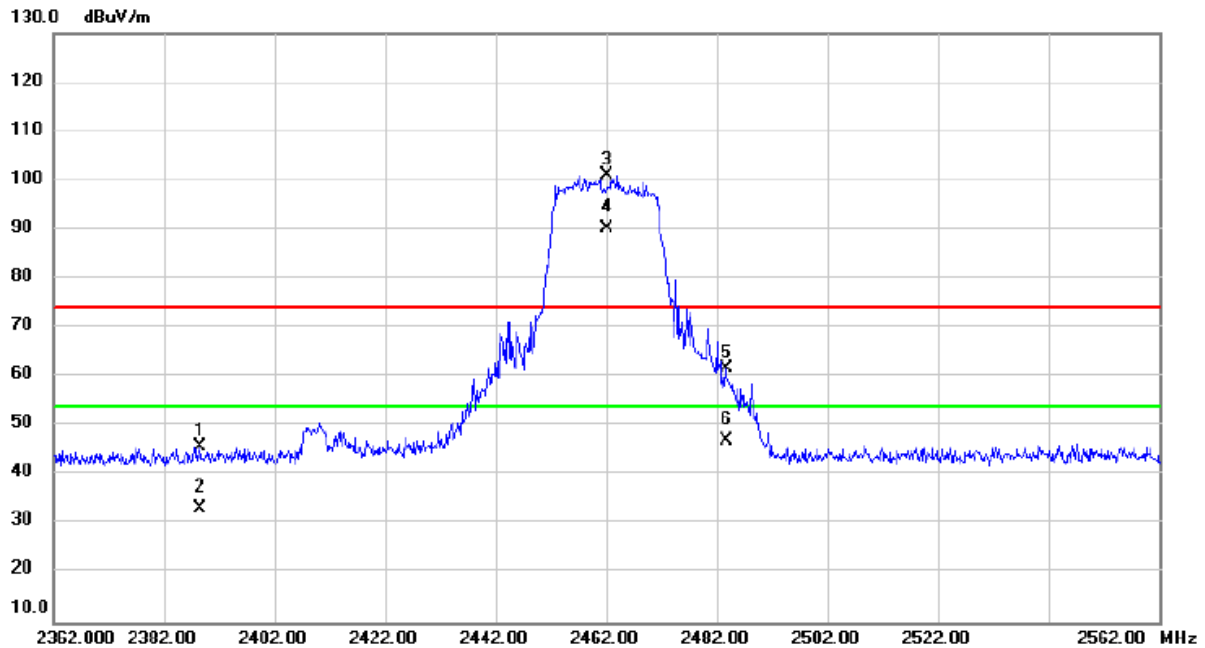


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2389.393	74.41	-16.29	58.12	74.00	-15.88	peak	
2		2389.393	63.24	-16.29	46.95	54.00	-7.05	AVG	
3	X	2412.000	119.32	-16.24	103.08	74.00	29.08	peak	No Limit
4	*	2412.000	108.56	-16.24	92.32	54.00	38.32	AVG	No Limit
5		2511.827	62.76	-15.99	46.77	74.00	-27.23	peak	
6		2511.827	51.02	-15.99	35.03	54.00	-18.97	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2022/10/18
Test Frequency	2462MHz	Polarization	Vertical
Temp	25°C	Hum.	62%



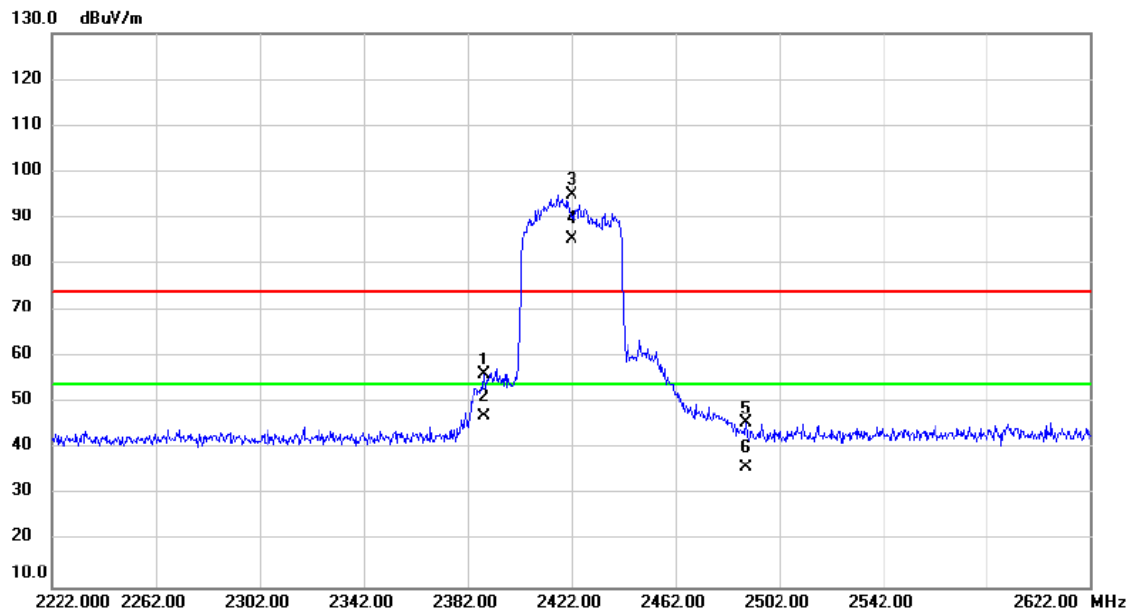
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2388.507	62.24	-16.29	45.95	74.00	-28.05	peak	
2		2388.507	49.56	-16.29	33.27	54.00	-20.73	AVG	
3	X	2462.000	117.29	-16.13	101.16	74.00	27.16	peak	No Limit
4	*	2462.000	106.44	-16.13	90.31	54.00	36.31	AVG	No Limit
5		2483.773	77.71	-16.08	61.63	74.00	-12.37	peak	
6		2483.773	63.22	-16.08	47.14	54.00	-6.86	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2022/10/18
Test Frequency	2422MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

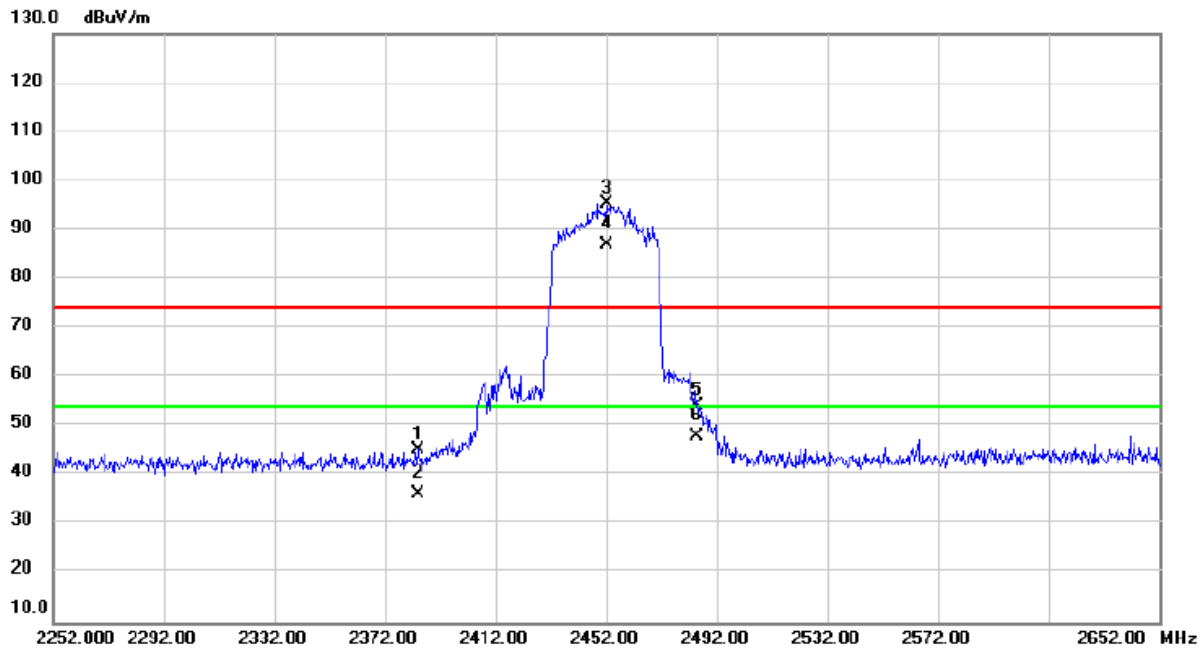


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2388.467	72.30	-16.29	56.01	74.00	-17.99	peak	
2		2388.467	63.35	-16.29	47.06	54.00	-6.94	AVG	
3	X	2422.000	111.18	-16.21	94.97	74.00	20.97	peak	No Limit
4	*	2422.000	101.67	-16.21	85.46	54.00	31.46	AVG	No Limit
5		2489.400	61.49	-16.06	45.43	74.00	-28.57	peak	
6		2489.400	52.06	-16.06	36.00	54.00	-18.00	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2022/10/18
Test Frequency	2452MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

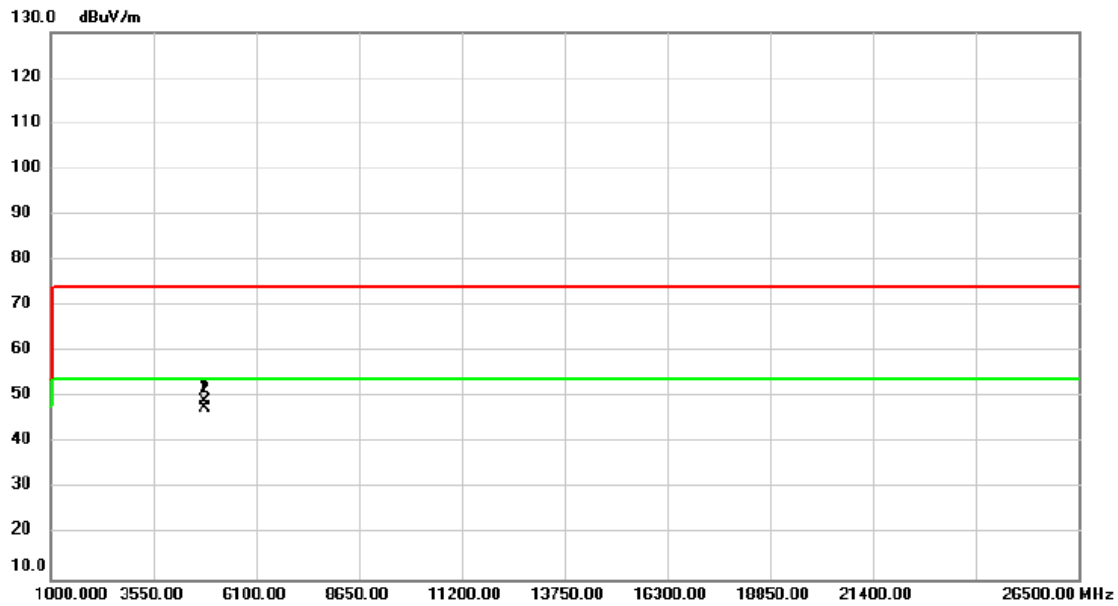


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2383.933	61.53	-16.30	45.23	74.00	-28.77	peak	
2		2383.933	52.44	-16.30	36.14	54.00	-17.86	AVG	
3	X	2452.000	111.42	-16.15	95.27	74.00	21.27	peak	No Limit
4	*	2452.000	103.19	-16.15	87.04	54.00	33.04	AVG	No Limit
5		2484.707	70.44	-16.07	54.37	74.00	-19.63	peak	
6		2484.707	63.88	-16.07	47.81	54.00	-6.19	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/10/25
Test Frequency	2412MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

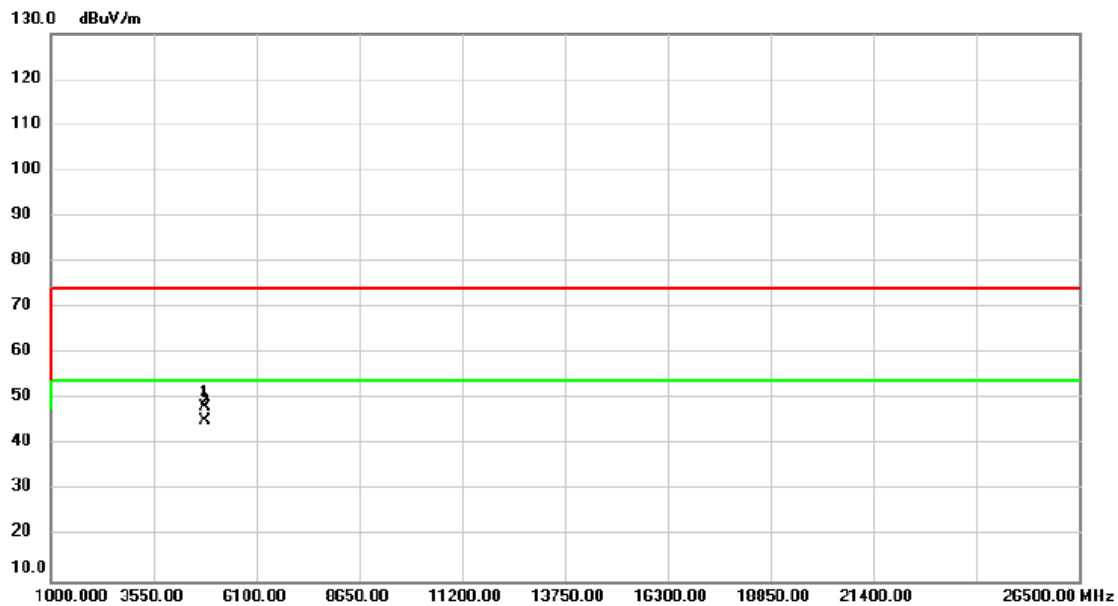


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	48.53	0.72	49.25	74.00	-24.75	peak	
2	*	4824.000	46.94	0.72	47.66	54.00	-6.34	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/10/25
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

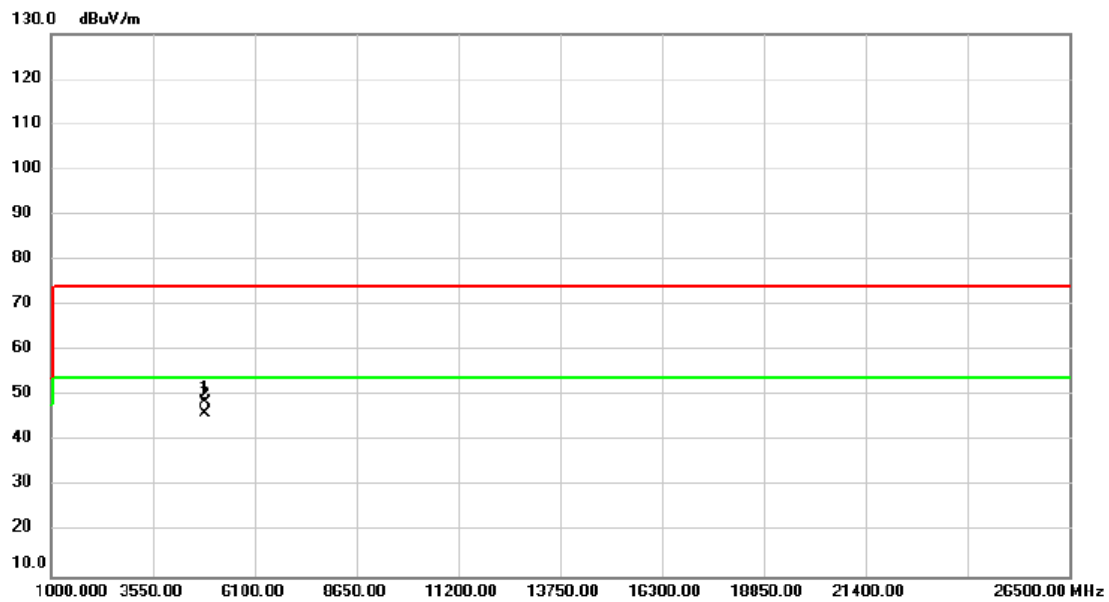


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	47.66	0.72	48.38	74.00	-25.62	peak	
2	*	4824.000	44.52	0.72	45.24	54.00	-8.76	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/10/25
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

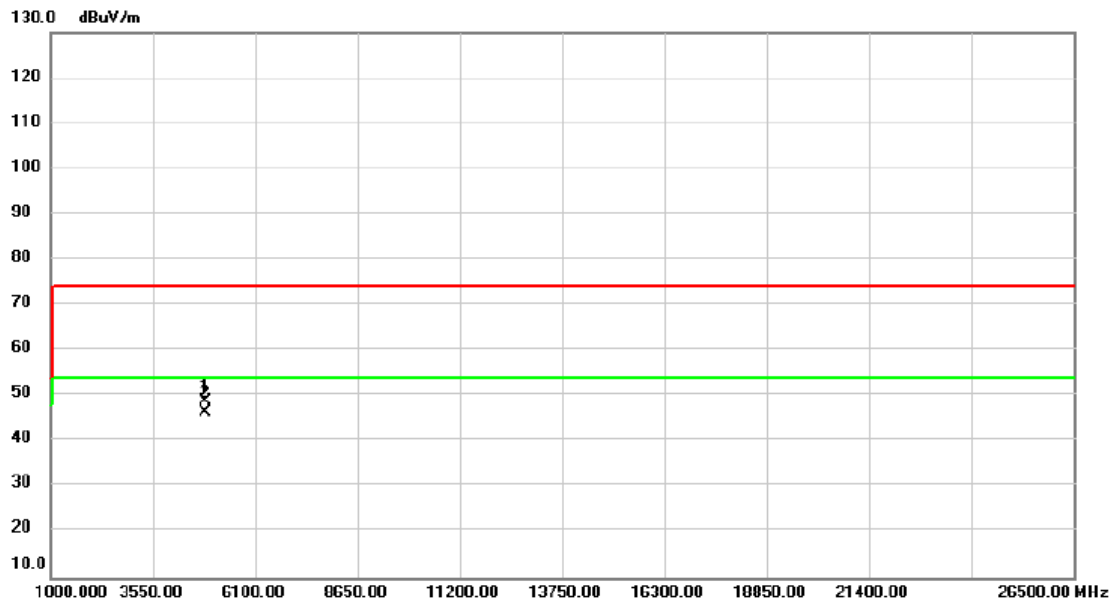


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	47.79	0.89	48.68	74.00	-25.32	peak	
2	*	4874.000	45.13	0.89	46.02	54.00	-7.98	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/10/25
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

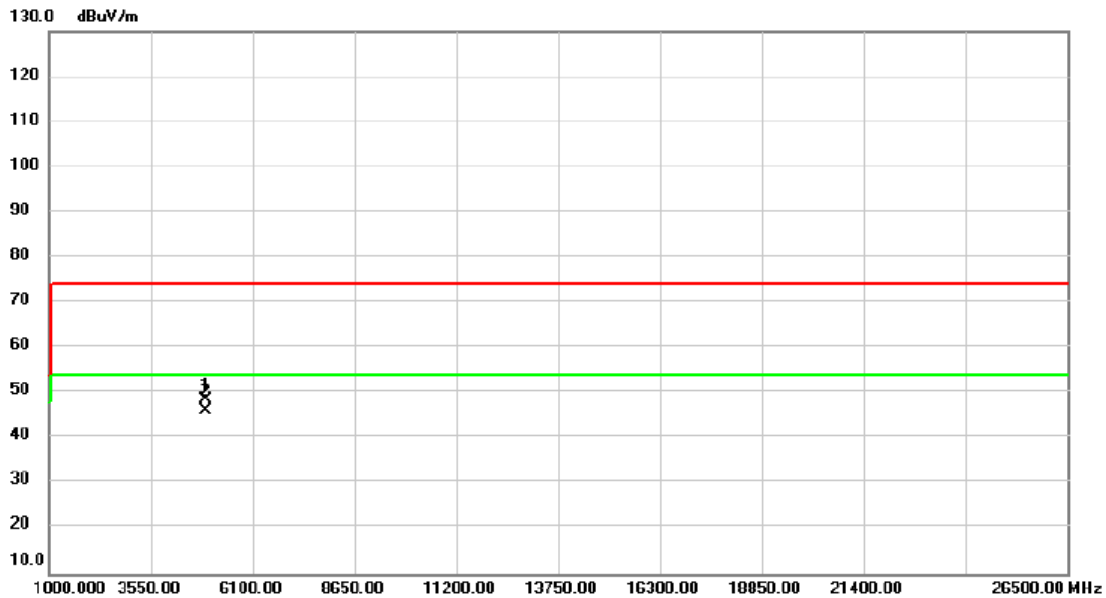


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	48.09	0.89	48.98	74.00	-25.02	peak	
2	*	4874.000	45.53	0.89	46.42	54.00	-7.58	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/10/25
Test Frequency	2462MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

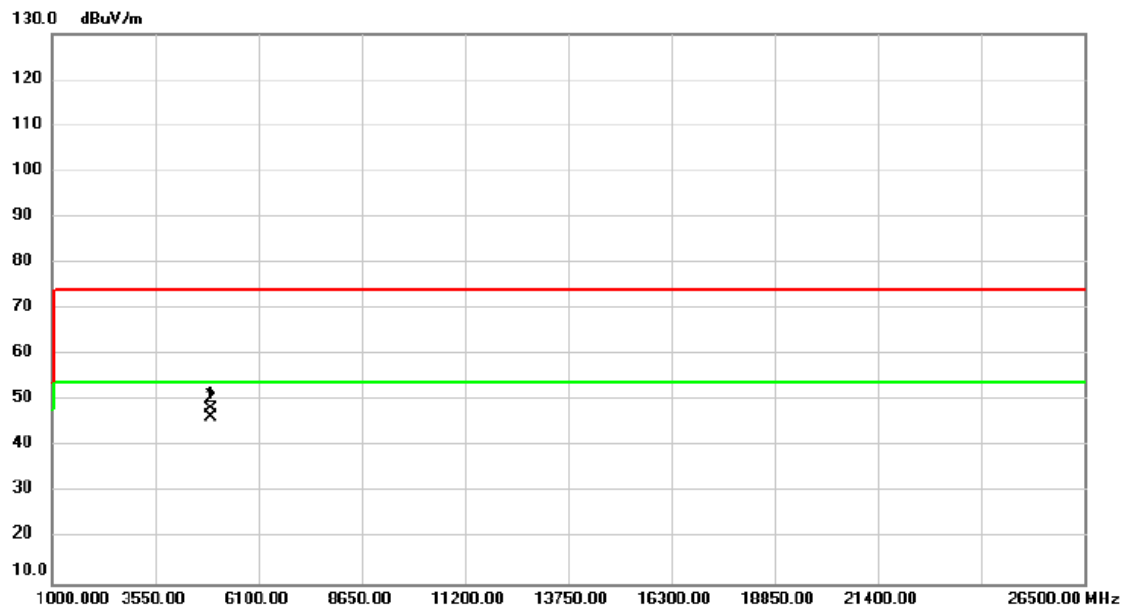


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	47.56	1.07	48.63	74.00	-25.37	peak	
2	*	4924.000	45.07	1.07	46.14	54.00	-7.86	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/10/25
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

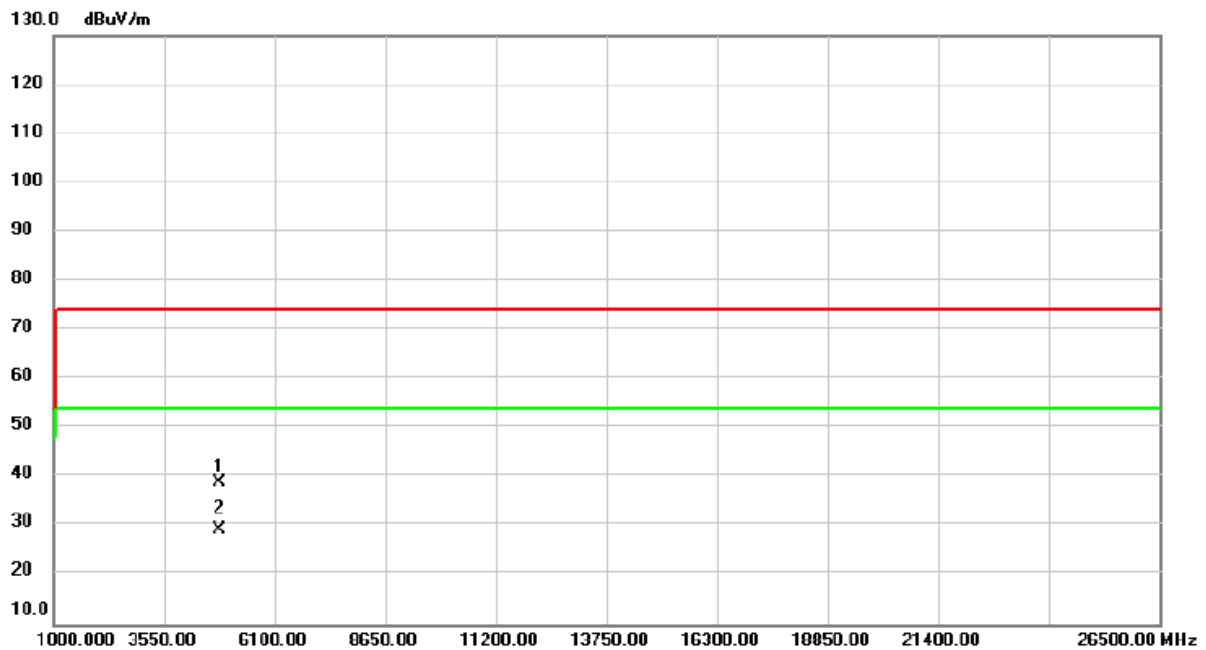


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	47.26	1.07	48.33	74.00	-25.67	peak	
2	*	4924.000	45.31	1.07	46.38	54.00	-7.62	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/10/14
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

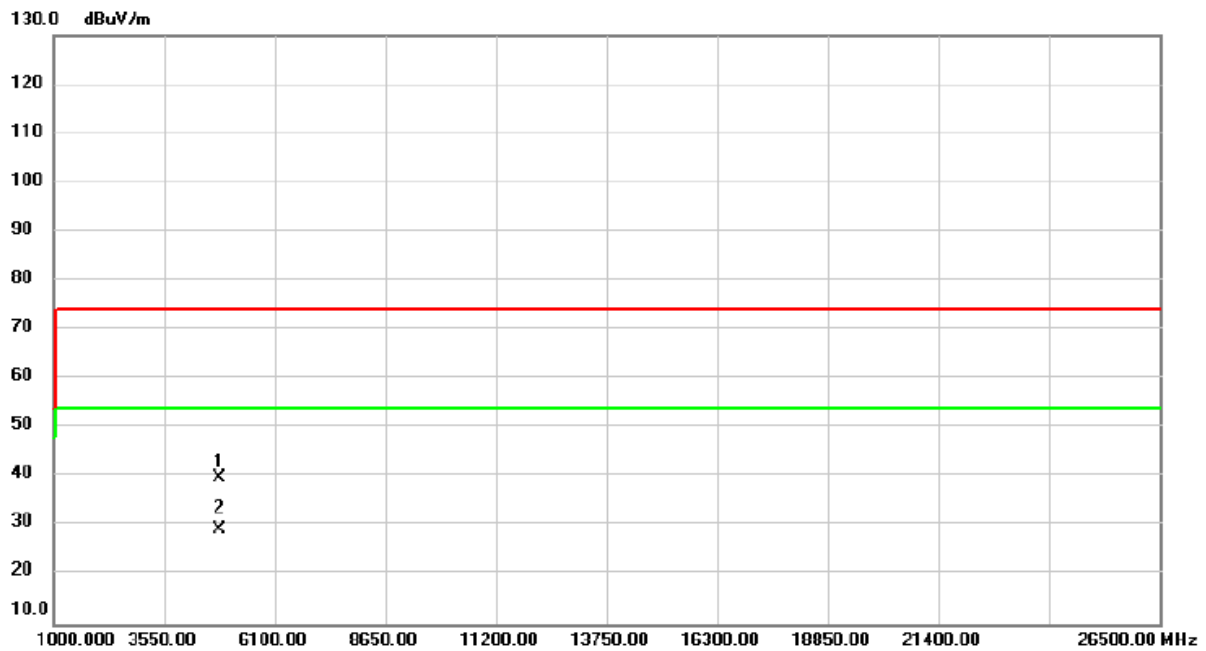


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	47.96	-8.89	39.07	74.00	-34.93	peak	
2	*	4824.000	38.29	-8.89	29.40	54.00	-24.60	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/10/14
Test Frequency	2412MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%

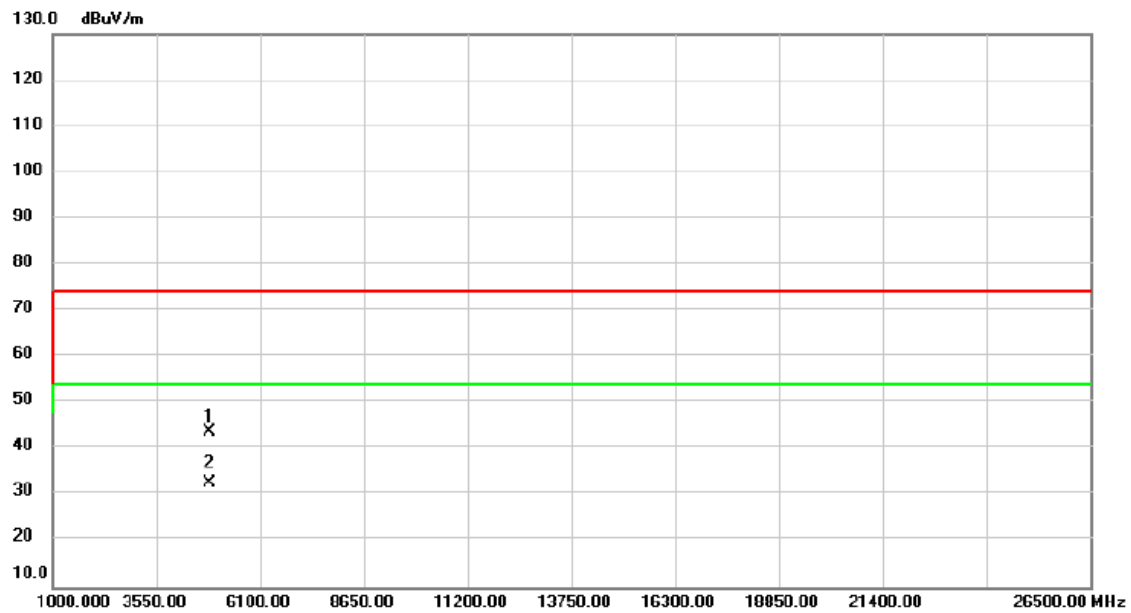


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	48.80	-8.89	39.91	74.00	-34.09	peak	
2	*	4824.000	38.15	-8.89	29.26	54.00	-24.74	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/10/25
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

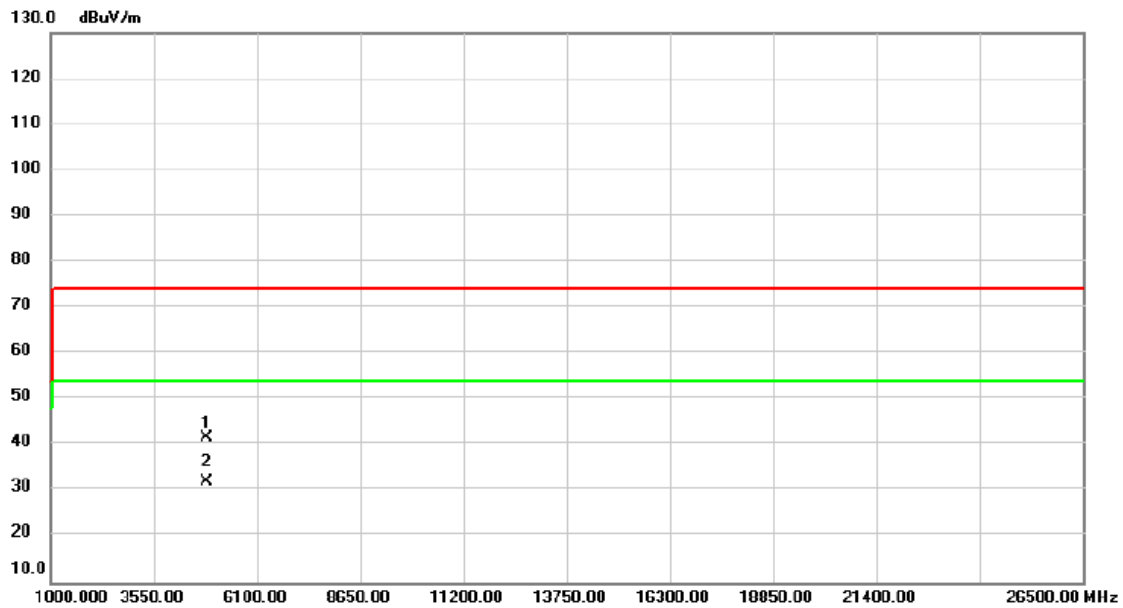


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	42.71	0.89	43.60	74.00	-30.40	peak	
2	*	4874.000	31.73	0.89	32.62	54.00	-21.38	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/10/25
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

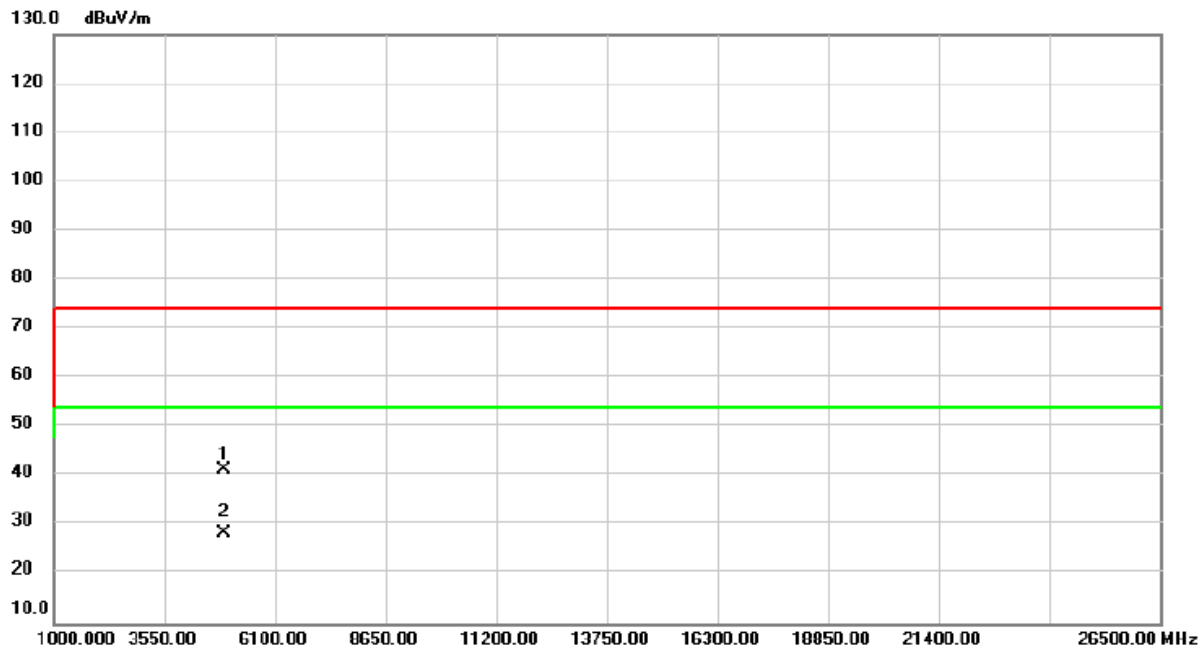


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	40.83	0.89	41.72	74.00	-32.28	peak	
2	*	4874.000	31.13	0.89	32.02	54.00	-21.98	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/10/14
Test Frequency	2462MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

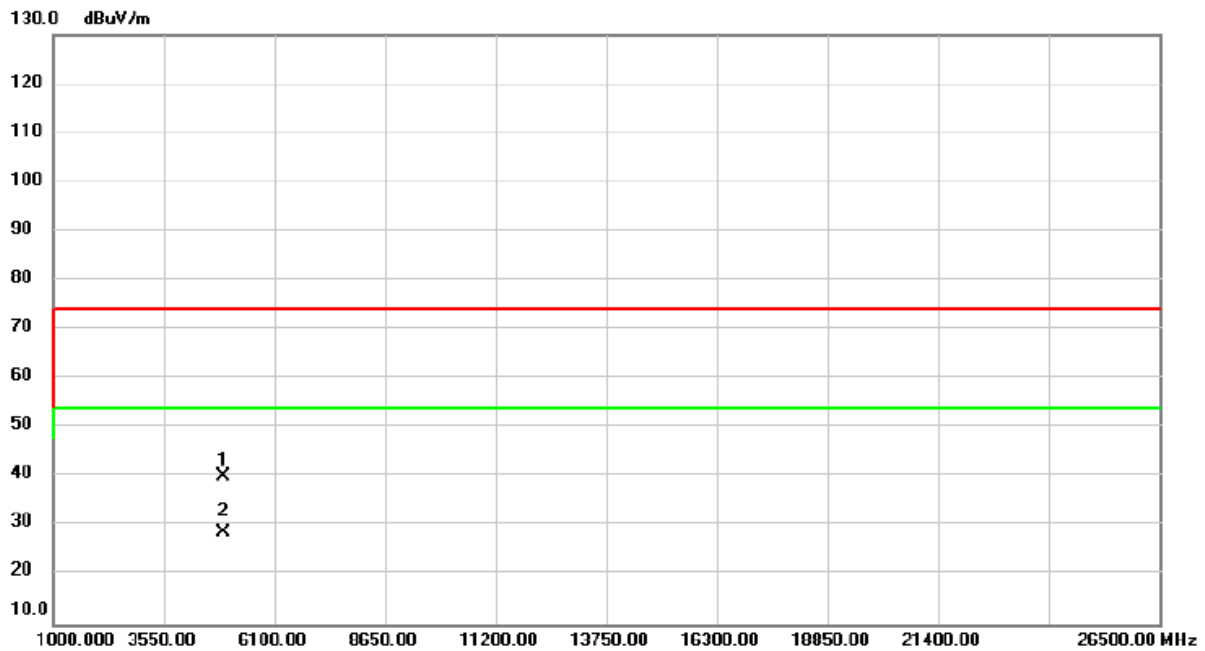


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	50.02	-8.56	41.46	74.00	-32.54	peak	
2	*	4924.000	37.12	-8.56	28.56	54.00	-25.44	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/10/14
Test Frequency	2462MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%

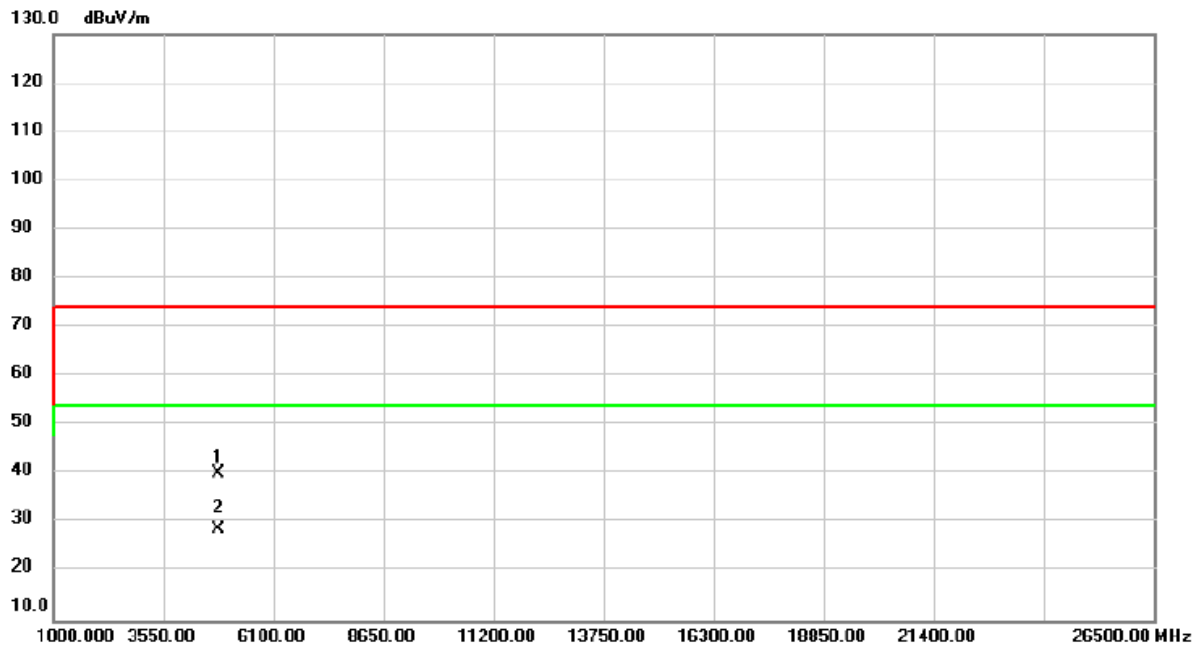


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	48.63	-8.56	40.07	74.00	-33.93	peak	
2	*	4924.000	37.18	-8.56	28.62	54.00	-25.38	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/10/14
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

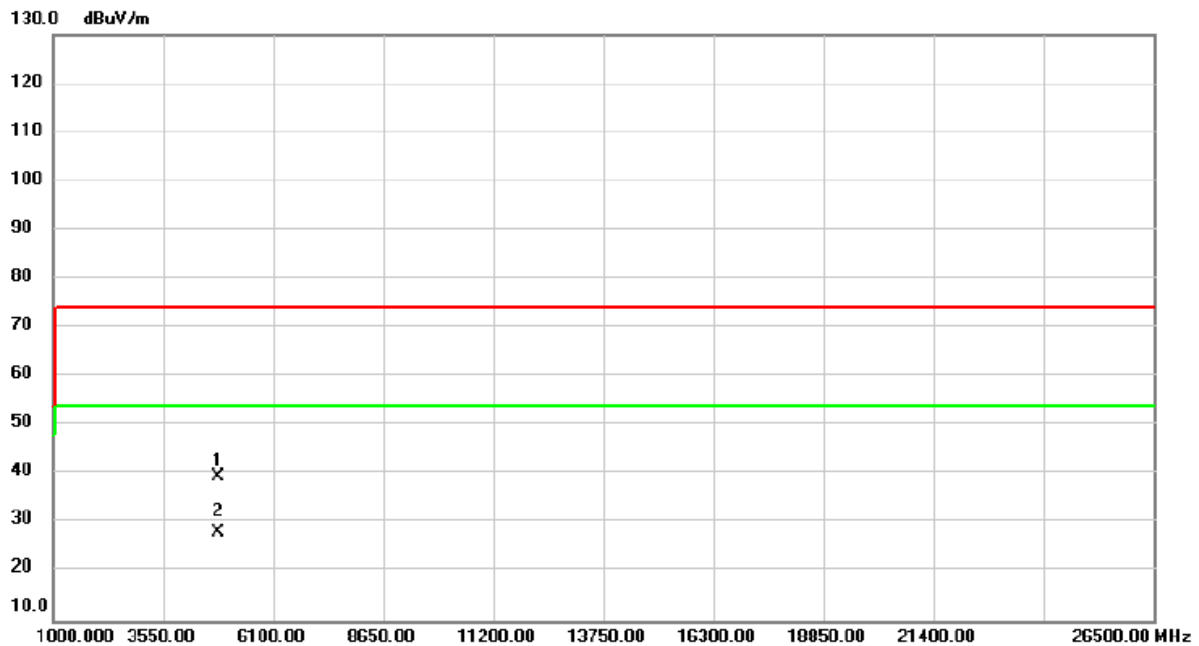


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	49.05	-8.89	40.16	74.00	-33.84	peak	
2	*	4824.000	37.55	-8.89	28.66	54.00	-25.34	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/10/14
Test Frequency	2412MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%

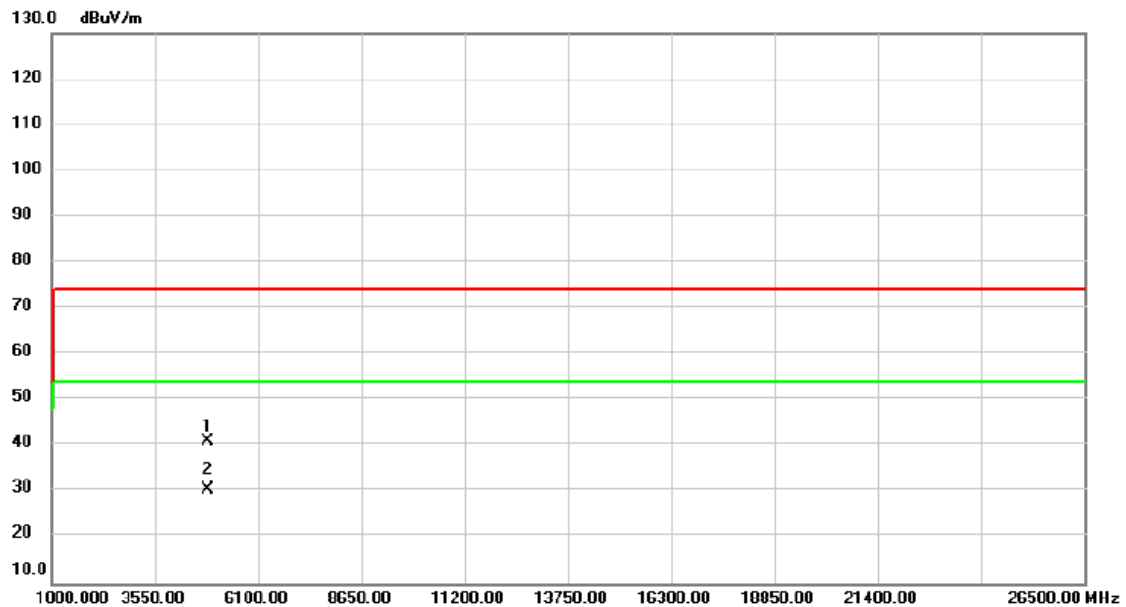


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	48.32	-8.89	39.43	74.00	-34.57	peak	
2	*	4824.000	36.99	-8.89	28.10	54.00	-25.90	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/10/26
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

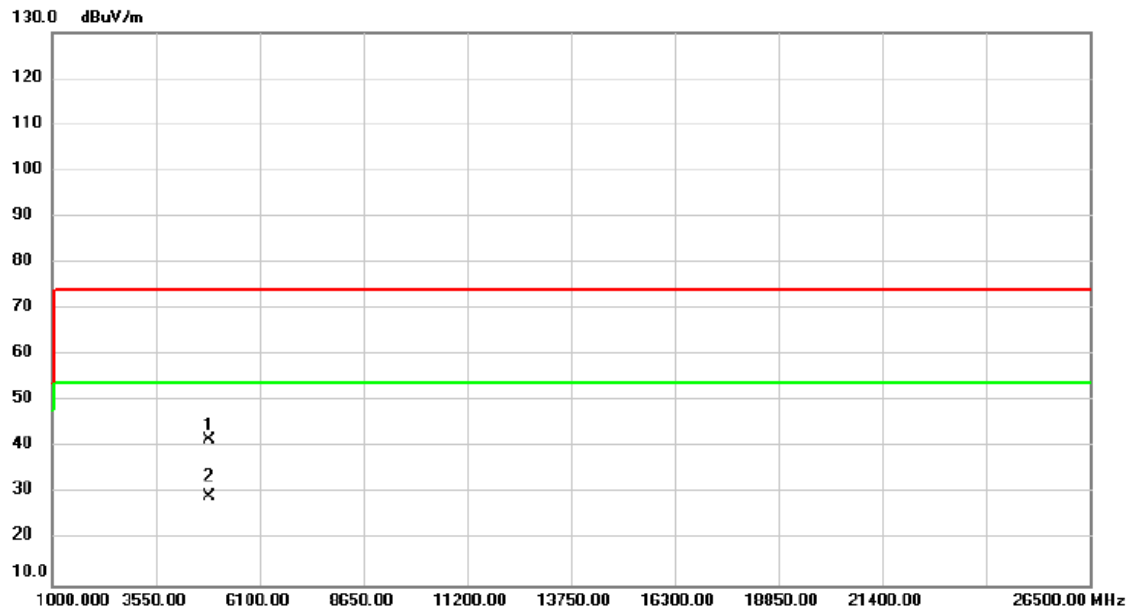


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	40.04	0.89	40.93	74.00	-33.07	peak	
2	*	4874.000	29.65	0.89	30.54	54.00	-23.46	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/10/26
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

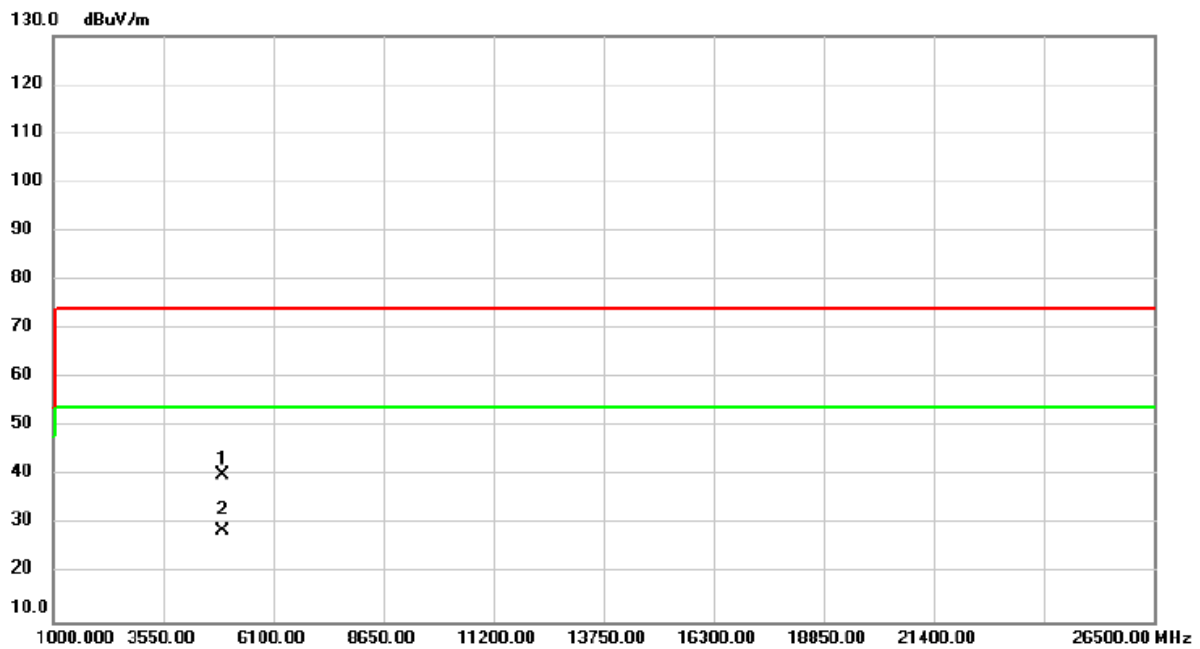


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	40.69	0.89	41.58	74.00	-32.42	peak	
2	*	4874.000	28.57	0.89	29.46	54.00	-24.54	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/10/14
Test Frequency	2462MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

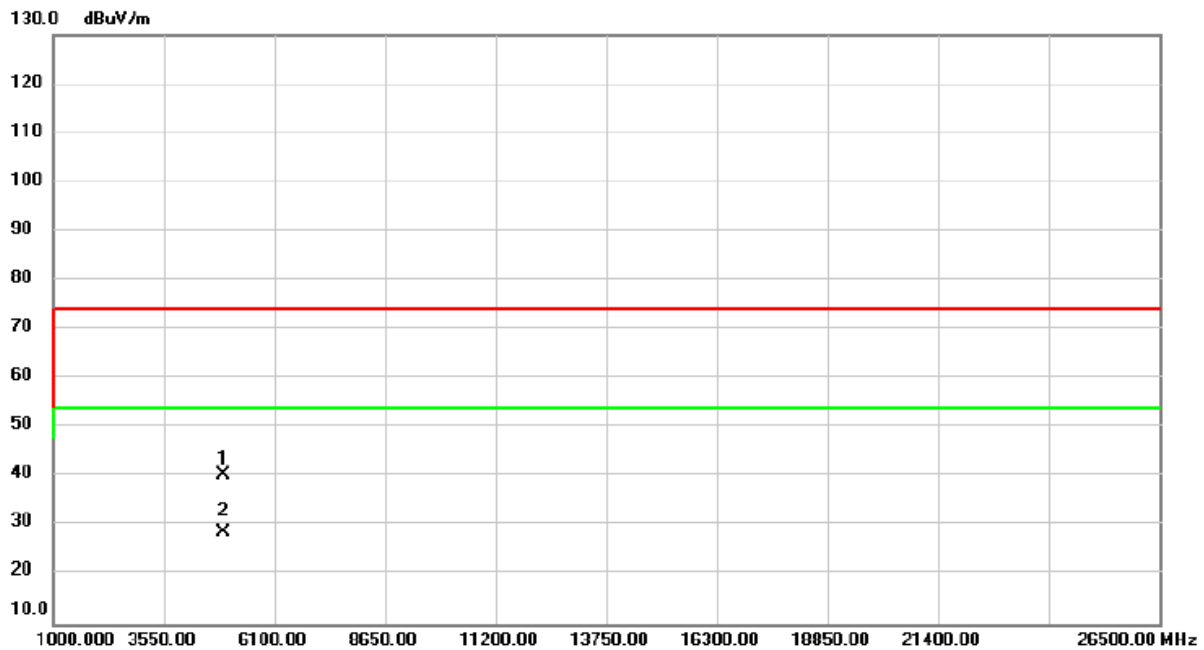


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	48.84	-8.56	40.28	74.00	-33.72	peak	
2	*	4924.000	37.32	-8.56	28.76	54.00	-25.24	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/10/14
Test Frequency	2462MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%



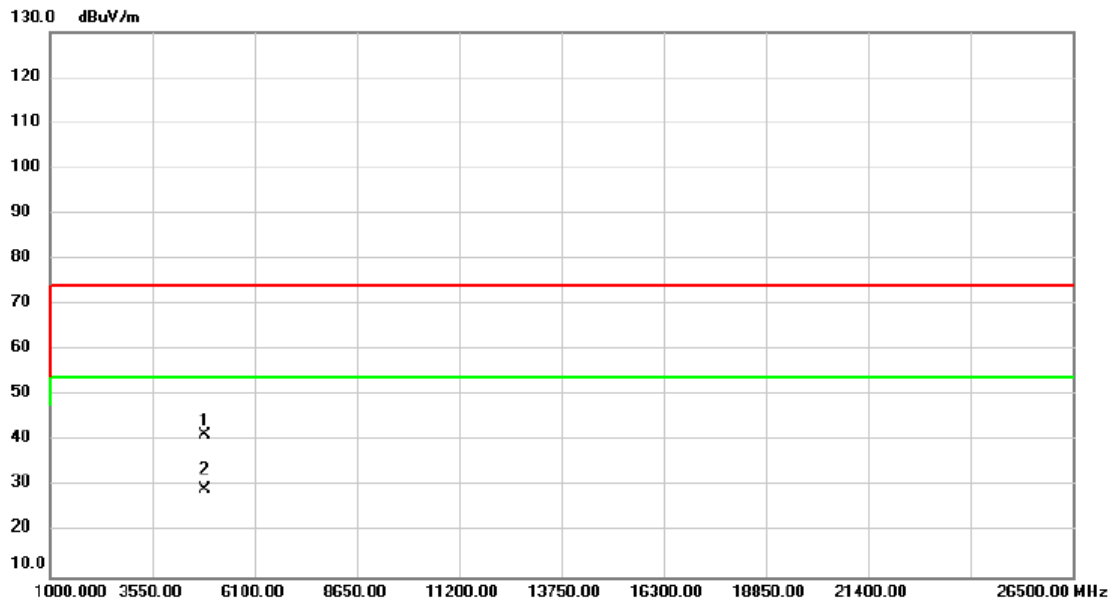
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	49.00	-8.56	40.44	74.00	-33.56	peak	
2	*	4924.000	37.21	-8.56	28.65	54.00	-25.35	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/10/26
Test Frequency	2422MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

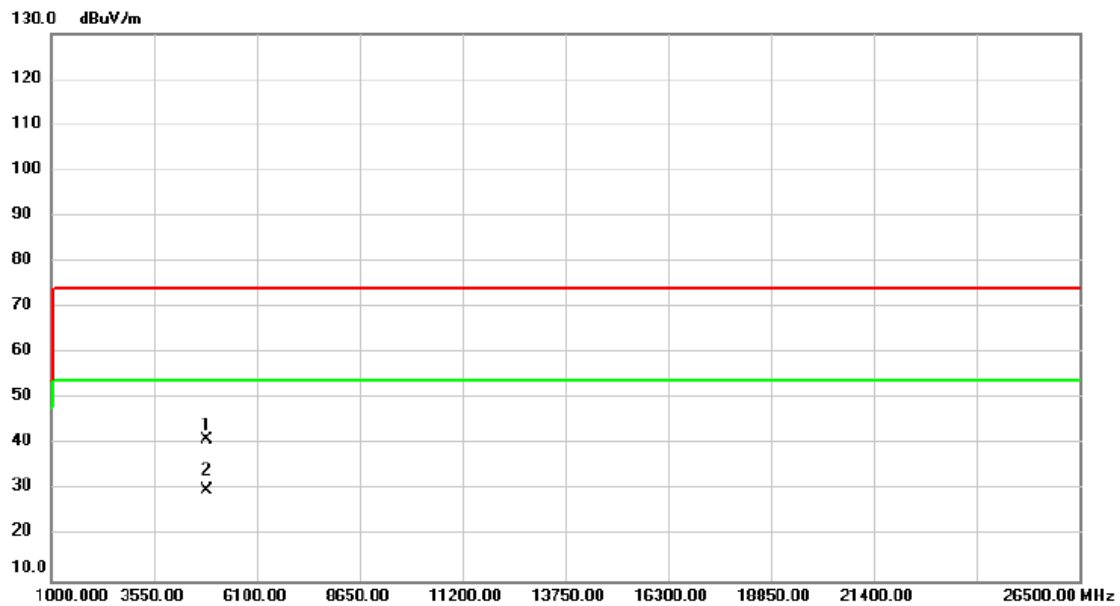


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4844.000	40.44	0.78	41.22	74.00	-32.78	peak	
2	*	4844.000	28.59	0.78	29.37	54.00	-24.63	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/10/26
Test Frequency	2422MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

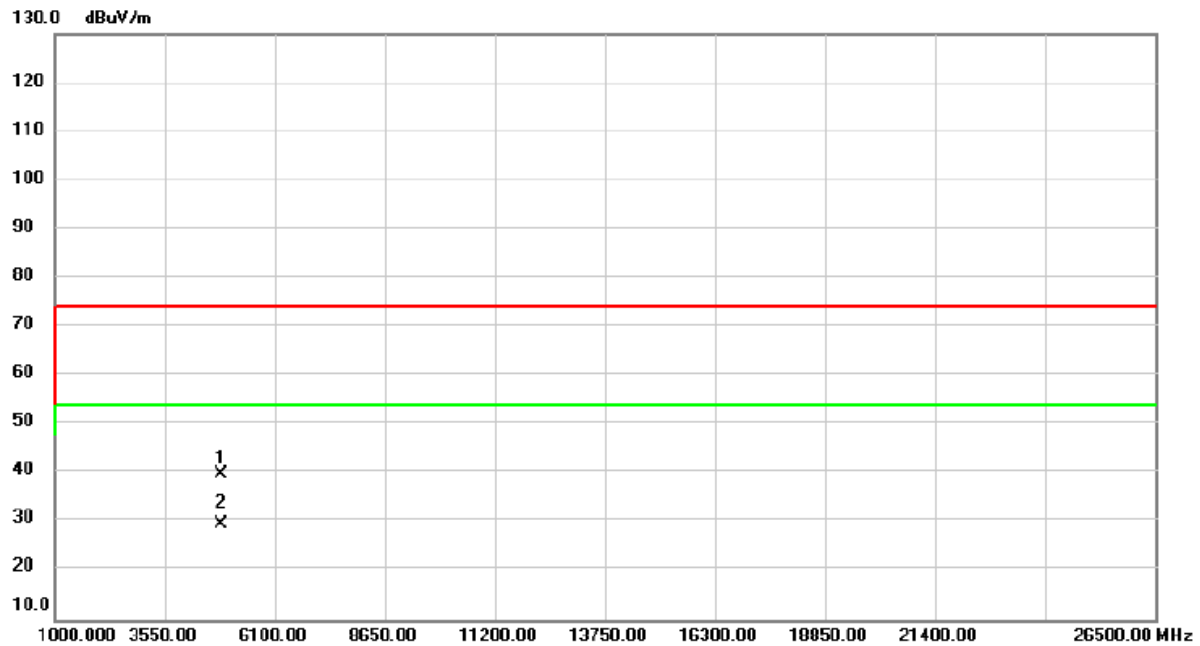


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.000	40.15	0.78	40.93	74.00	-33.07	peak	
2	*	4844.000	29.20	0.78	29.98	54.00	-24.02	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/10/17
Test Frequency	2437MHz	Polarization	Vertical
Temp	25°C	Hum.	62%



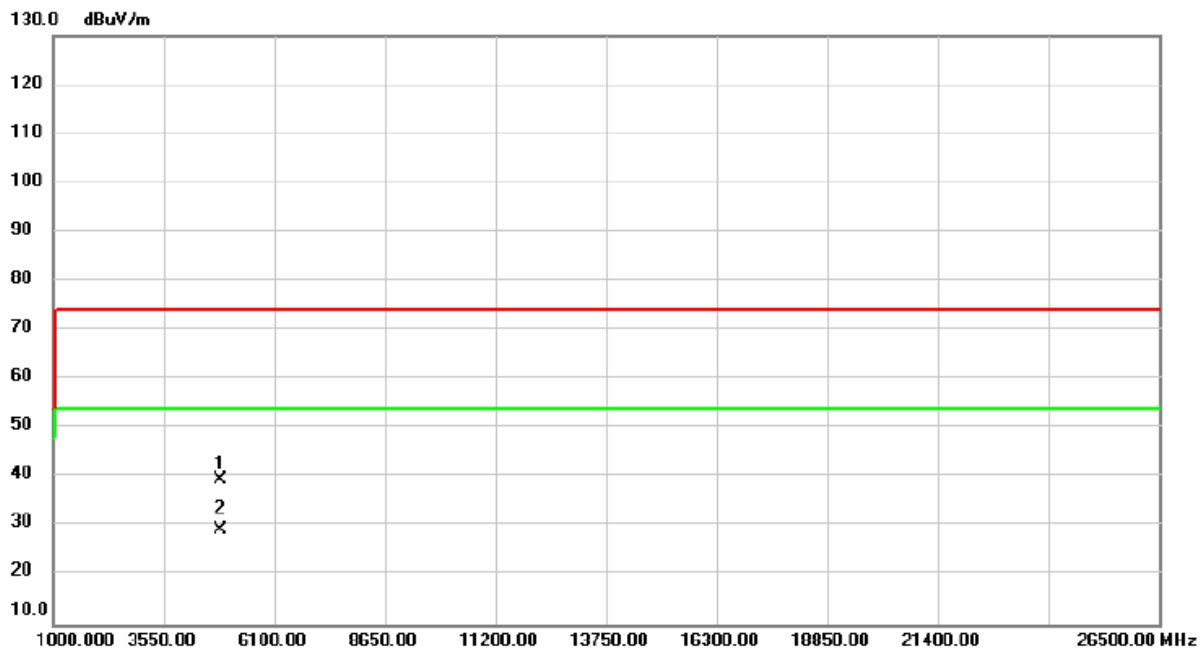
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	48.52	-8.73	39.79	74.00	-34.21	peak	
2	*	4874.000	38.25	-8.73	29.52	54.00	-24.48	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/10/17
Test Frequency	2437MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%

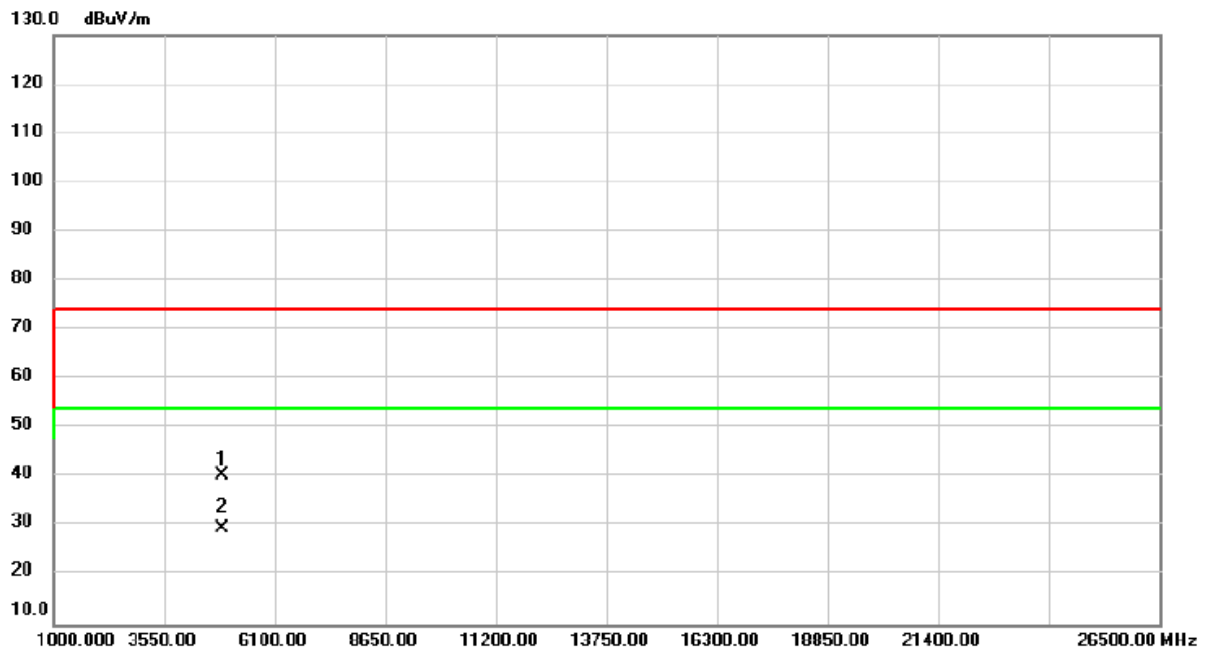


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	48.27	-8.73	39.54	74.00	-34.46	peak	
2	*	4874.000	37.99	-8.73	29.26	54.00	-24.74	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/10/17
Test Frequency	2452MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

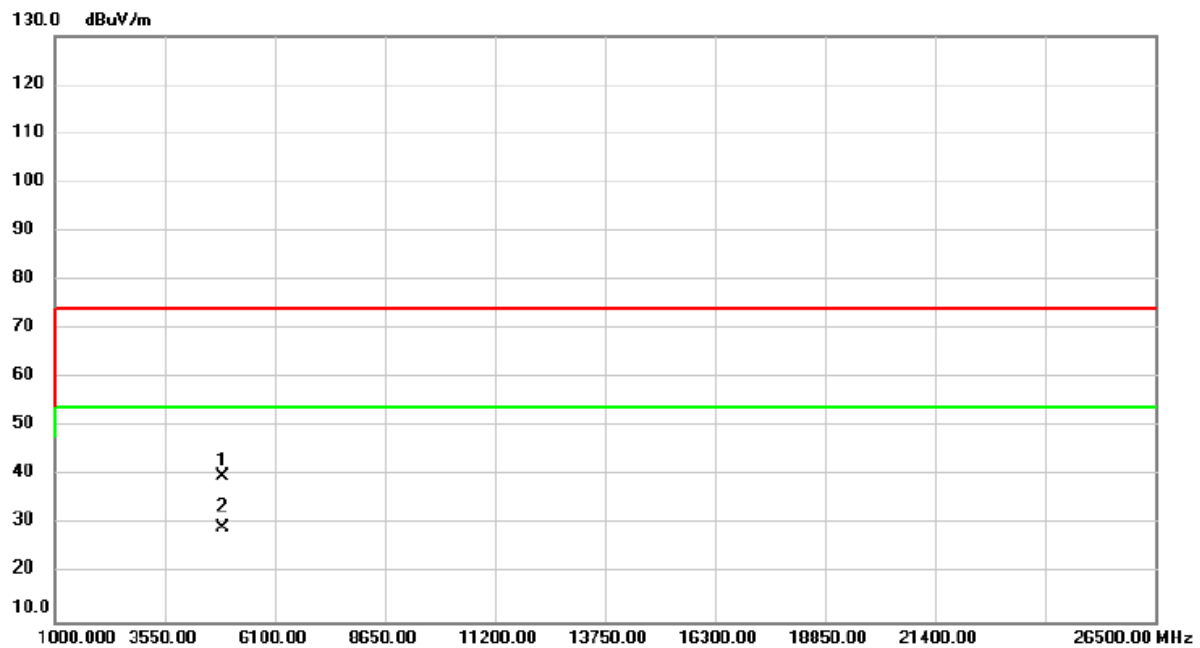


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	49.04	-8.64	40.40	74.00	-33.60	peak	
2	*	4904.000	38.28	-8.64	29.64	54.00	-24.36	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/10/17
Test Frequency	2452MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%



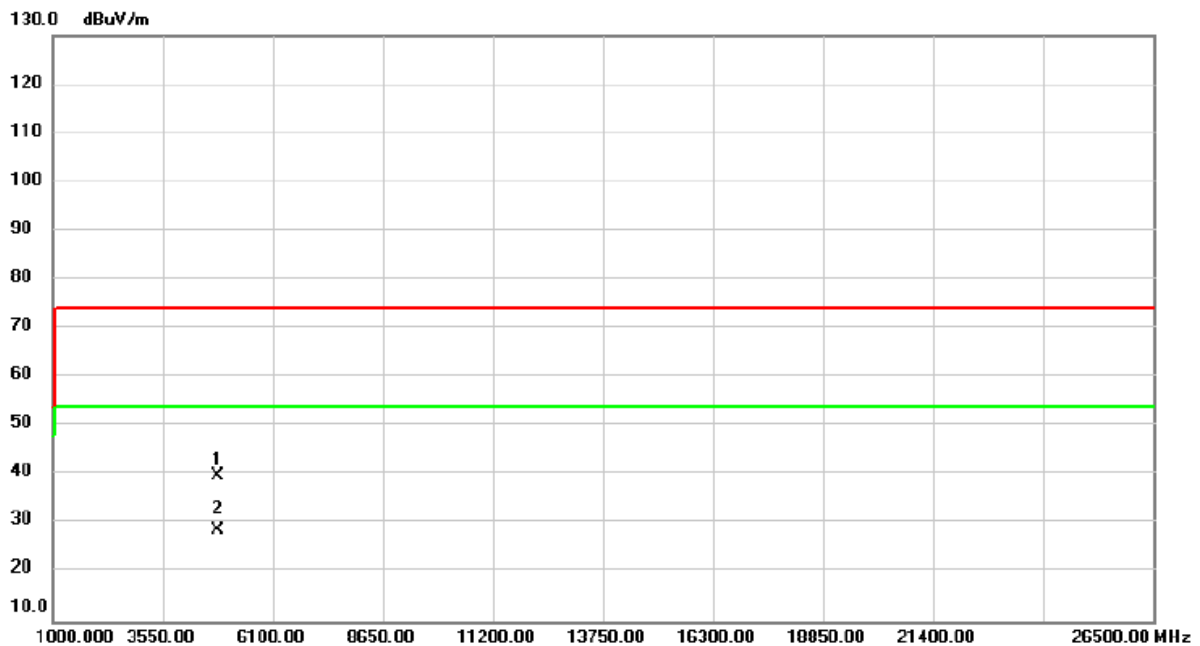
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	48.51	-8.64	39.87	74.00	-34.13	peak	
2	*	4904.000	38.01	-8.64	29.37	54.00	-24.63	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2022/10/17
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	62%



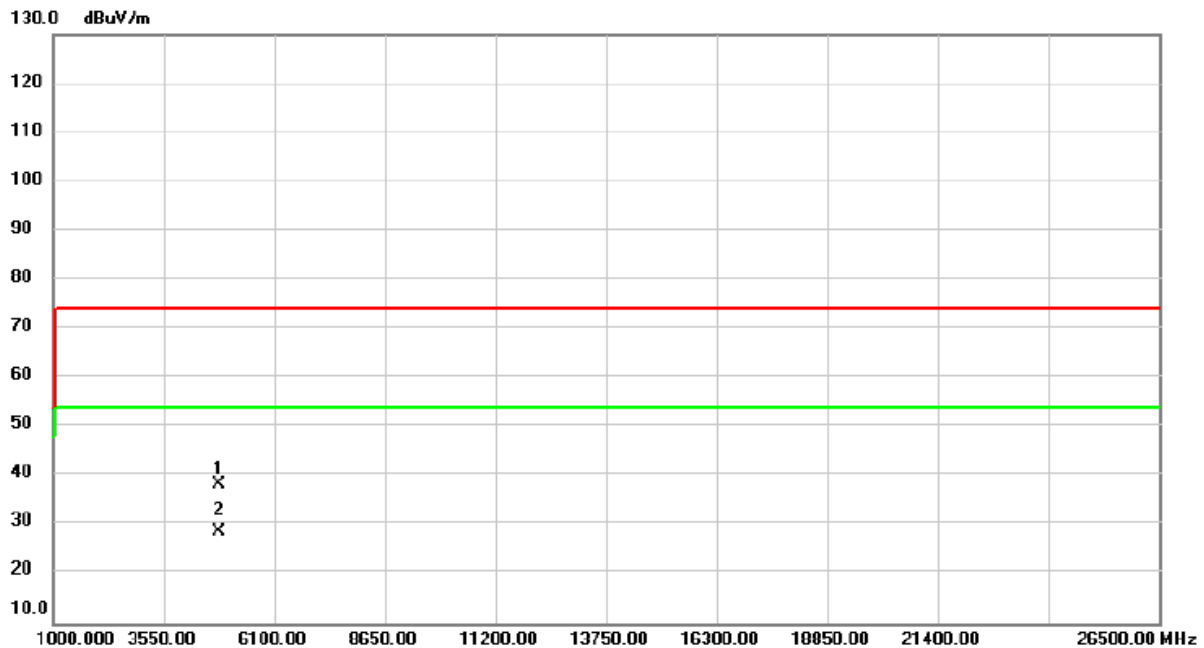
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	48.86	-8.89	39.97	74.00	-34.03	peak	
2	*	4824.000	37.60	-8.89	28.71	54.00	-25.29	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2022/10/17
Test Frequency	2412MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%

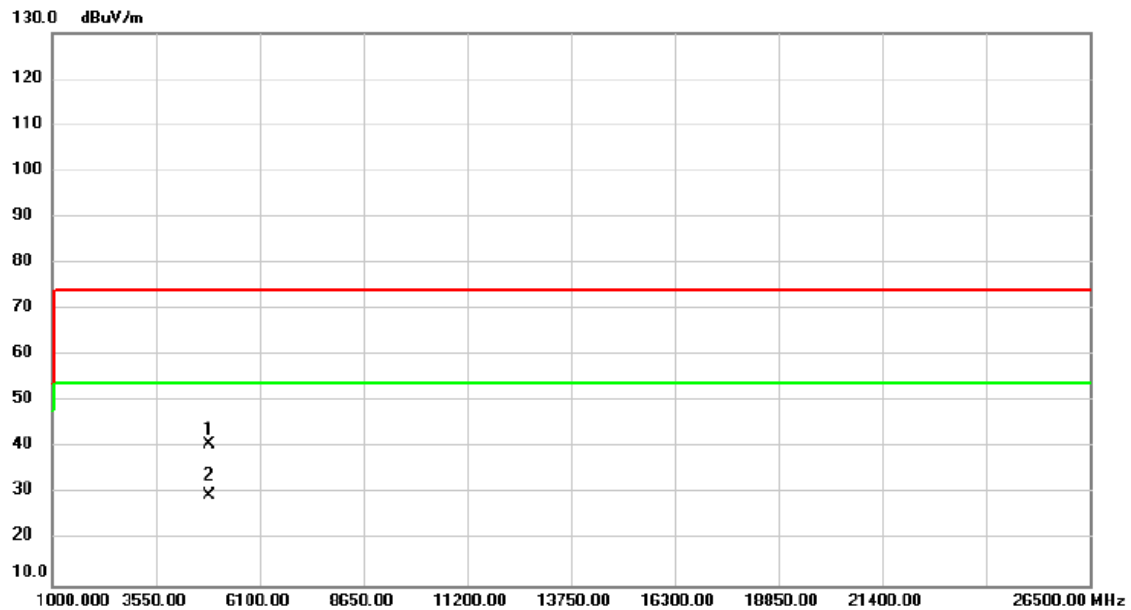


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	47.32	-8.89	38.43	74.00	-35.57	peak	
2	*	4824.000	37.52	-8.89	28.63	54.00	-25.37	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2022/10/26
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

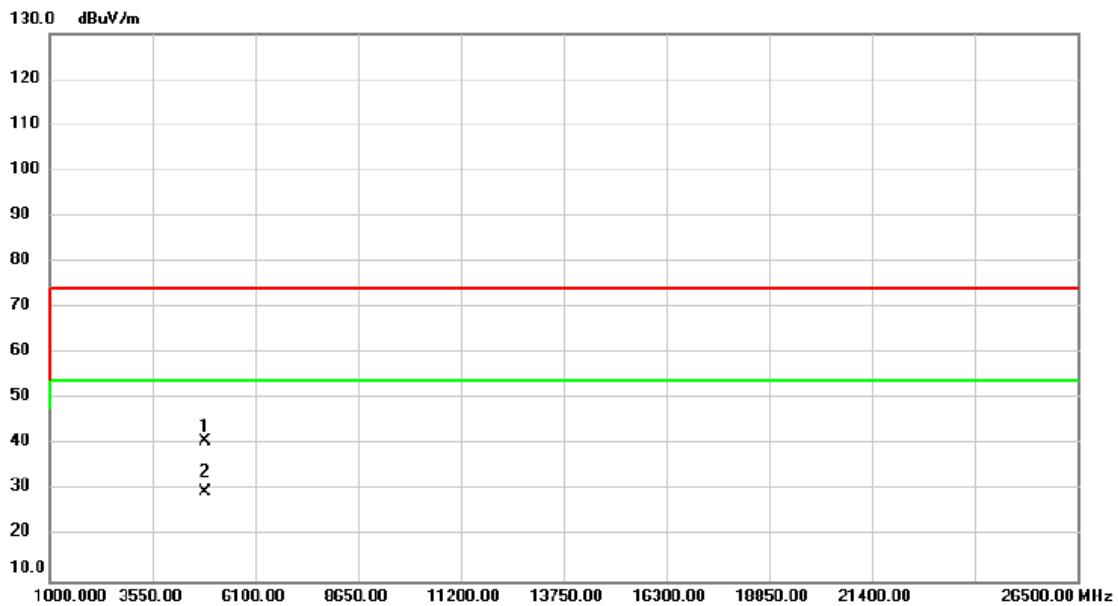


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	39.95	0.89	40.84	74.00	-33.16	peak	
2	*	4874.000	28.75	0.89	29.64	54.00	-24.36	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2022/10/26
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

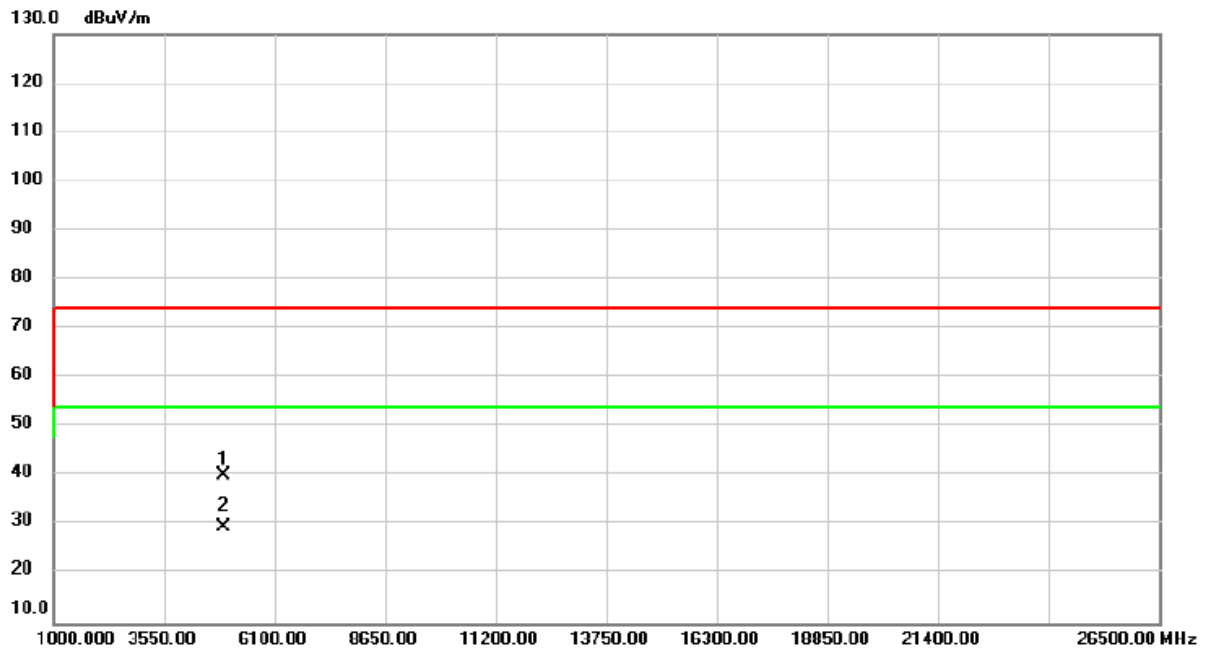


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	39.80	0.89	40.69	74.00	-33.31	peak	
2	*	4874.000	28.79	0.89	29.68	54.00	-24.32	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2022/10/17
Test Frequency	2462MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

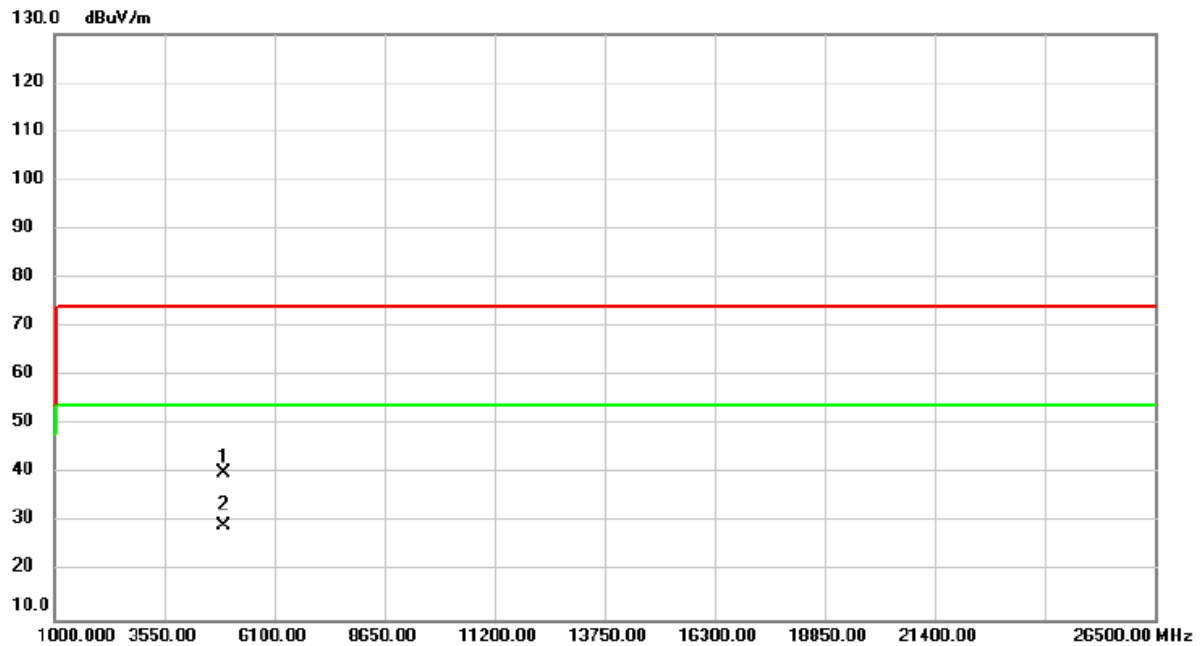


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	48.86	-8.56	40.30	74.00	-33.70	peak	
2	*	4924.000	38.08	-8.56	29.52	54.00	-24.48	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2022/10/17
Test Frequency	2462MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%

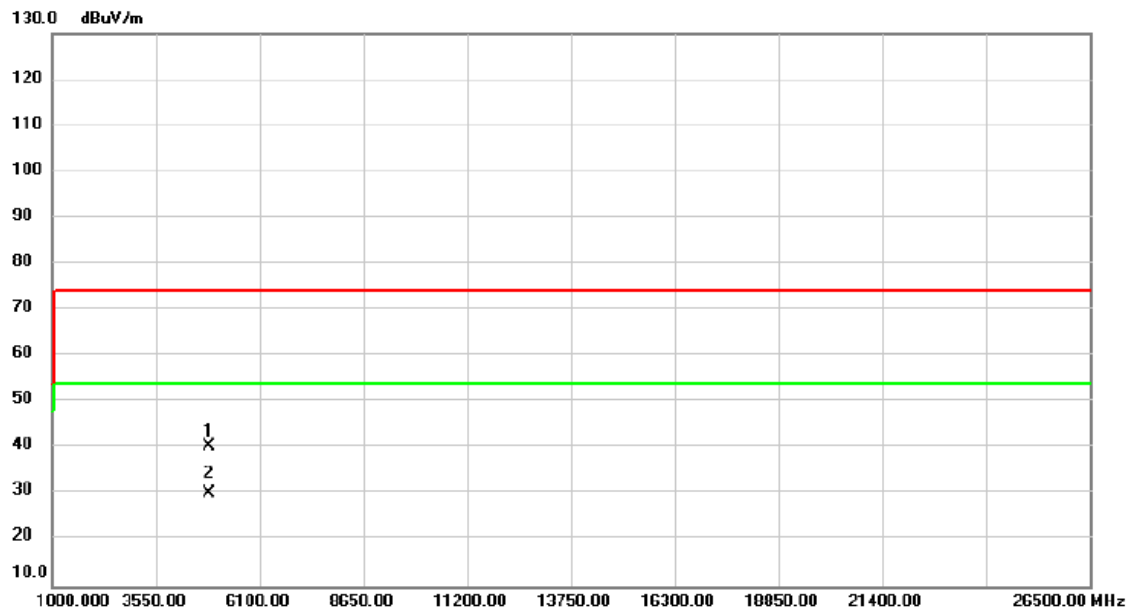


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	48.58	-8.56	40.02	74.00	-33.98	peak	
2	*	4924.000	37.91	-8.56	29.35	54.00	-24.65	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2022/10/26
Test Frequency	2422MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

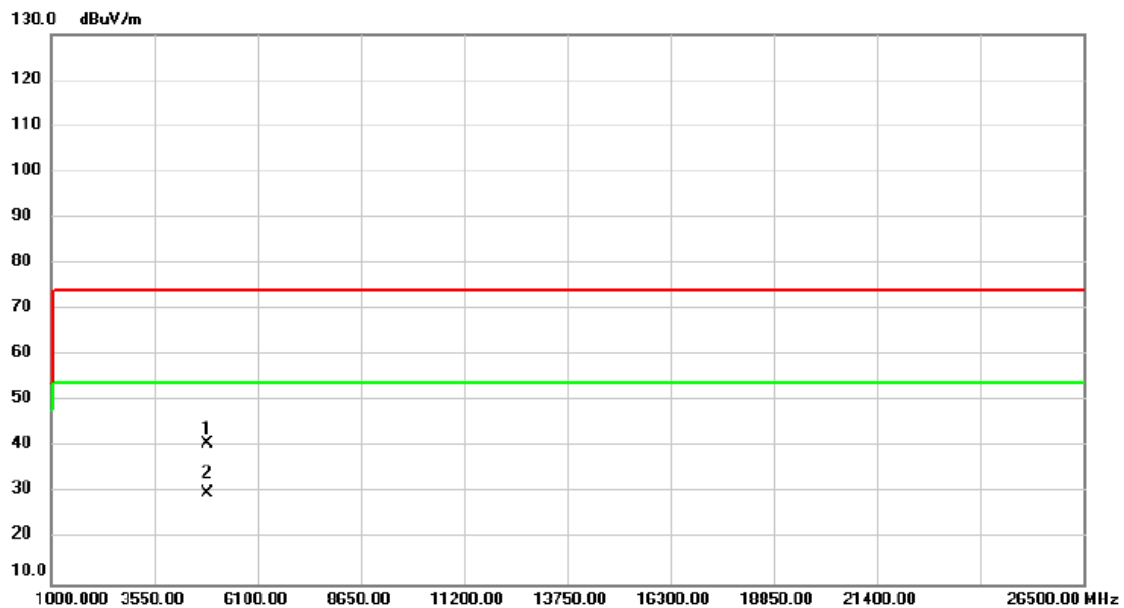


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.000	39.78	0.78	40.56	74.00	-33.44	peak	
2	*	4844.000	29.38	0.78	30.16	54.00	-23.84	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2022/10/26
Test Frequency	2422MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

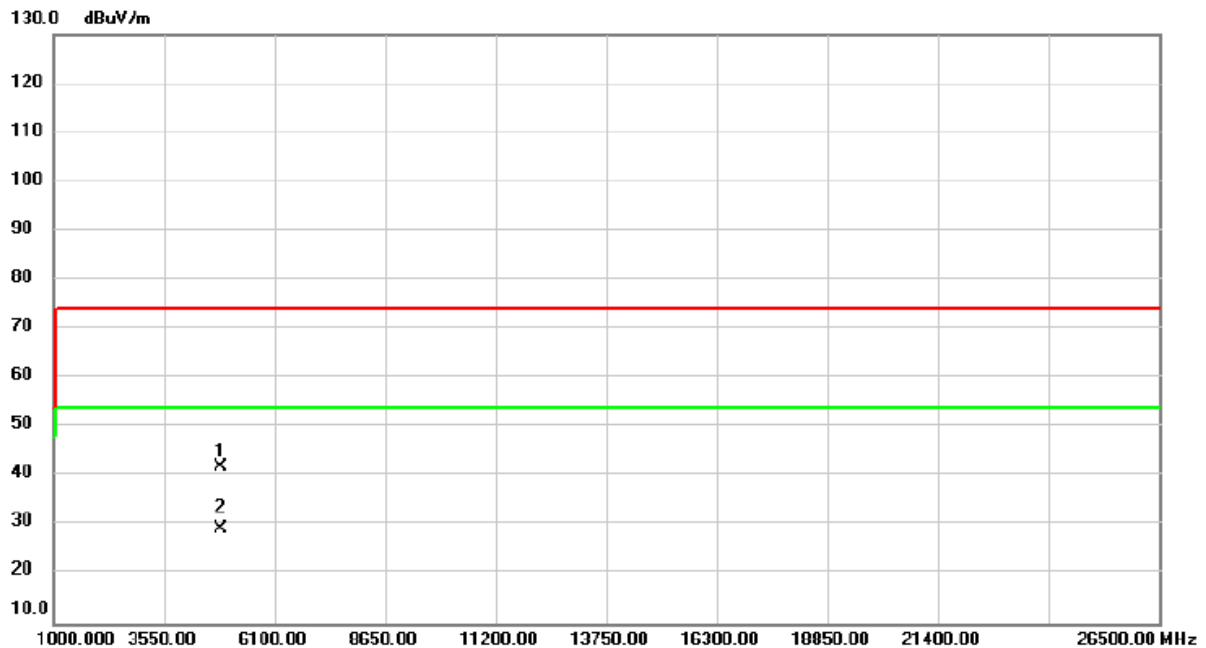


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.000	40.01	0.78	40.79	74.00	-33.21	peak	
2	*	4844.000	29.13	0.78	29.91	54.00	-24.09	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2022/10/17
Test Frequency	2437MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

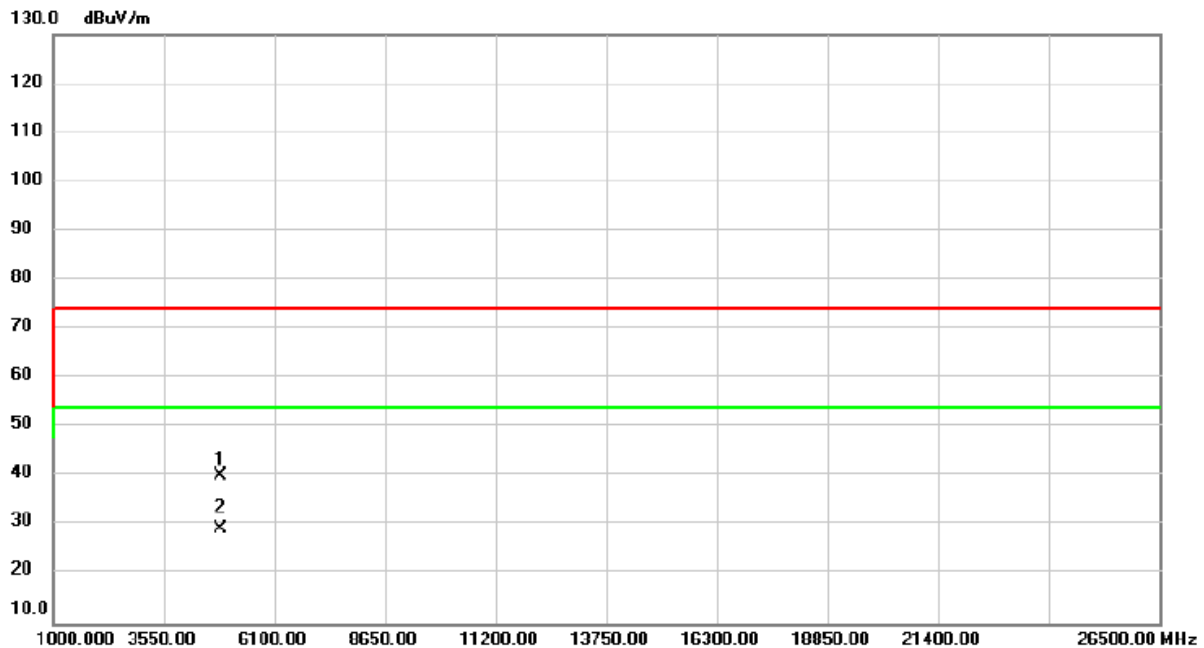


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	50.65	-8.73	41.92	74.00	-32.08	peak	
2	*	4874.000	38.13	-8.73	29.40	54.00	-24.60	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2022/10/17
Test Frequency	2437MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%

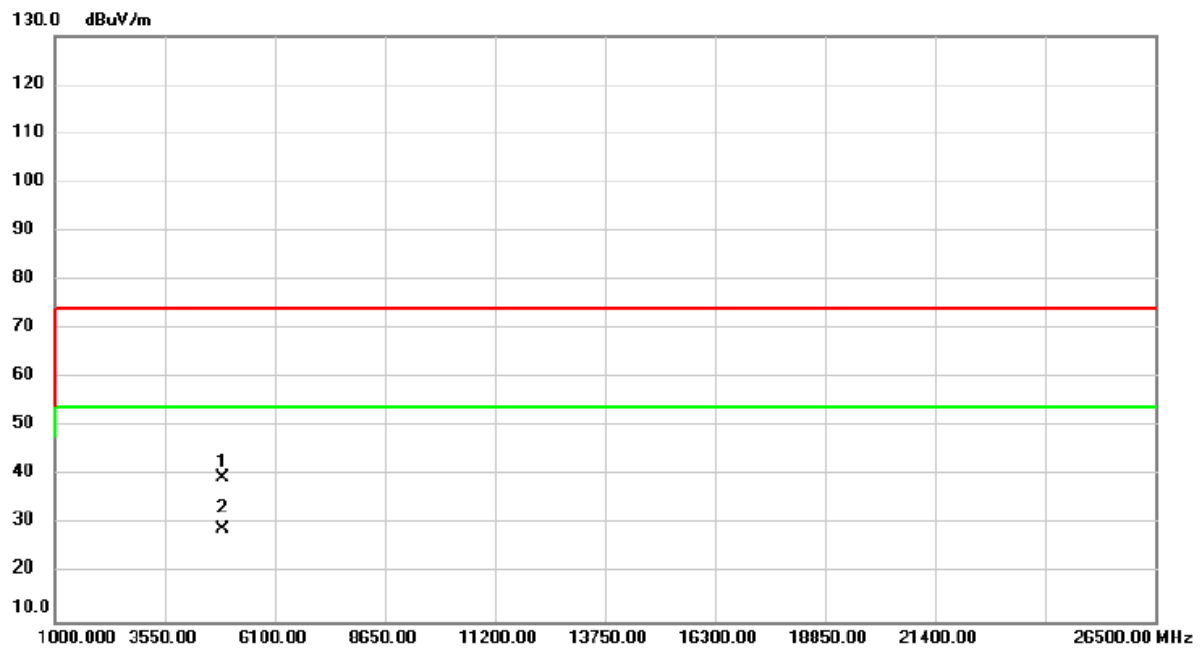


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	48.89	-8.73	40.16	74.00	-33.84	peak	
2	*	4874.000	37.96	-8.73	29.23	54.00	-24.77	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2022/10/17
Test Frequency	2452MHz	Polarization	Vertical
Temp	25°C	Hum.	62%



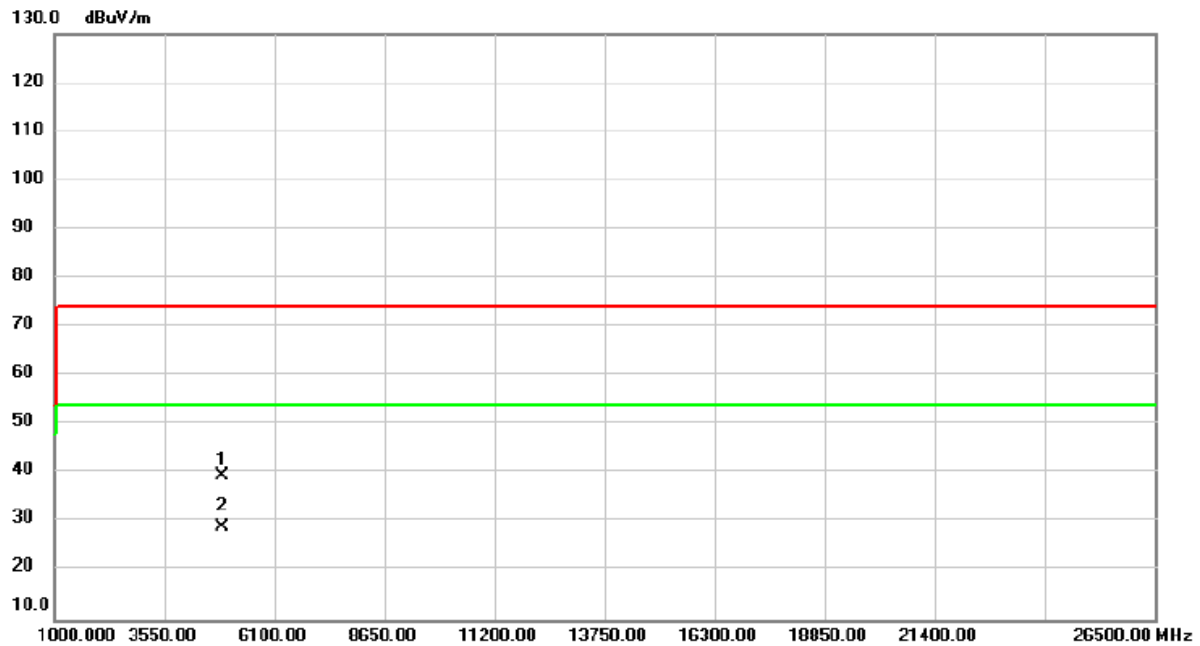
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	48.31	-8.64	39.67	74.00	-34.33	peak	
2	*	4904.000	37.64	-8.64	29.00	54.00	-25.00	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2022/10/17
Test Frequency	2452MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	48.17	-8.64	39.53	74.00	-34.47	peak	
2	*	4904.000	37.70	-8.64	29.06	54.00	-24.94	AVG	

REMARKS:

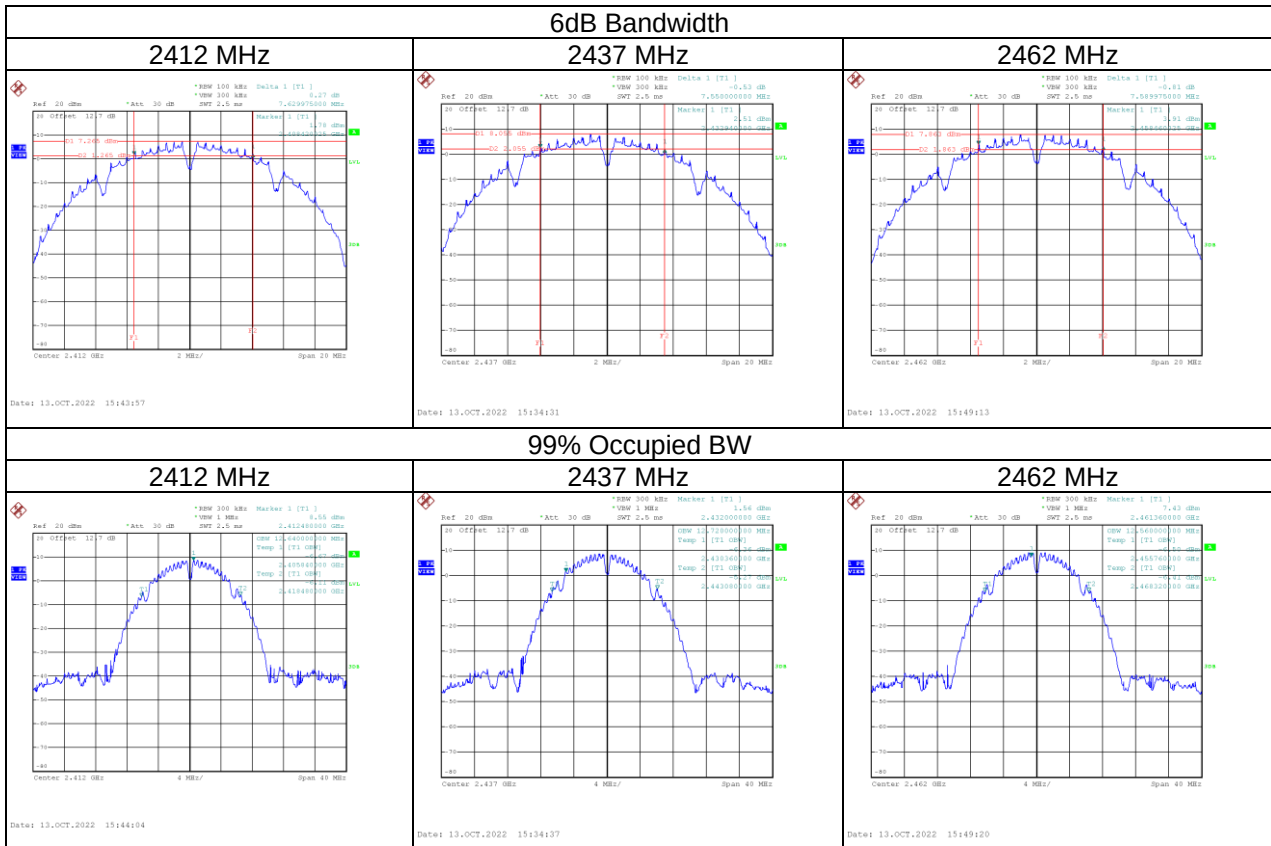
(1) Measurement Value = Reading Level + Correct Factor.

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

APPENDIX D BANDWIDTH

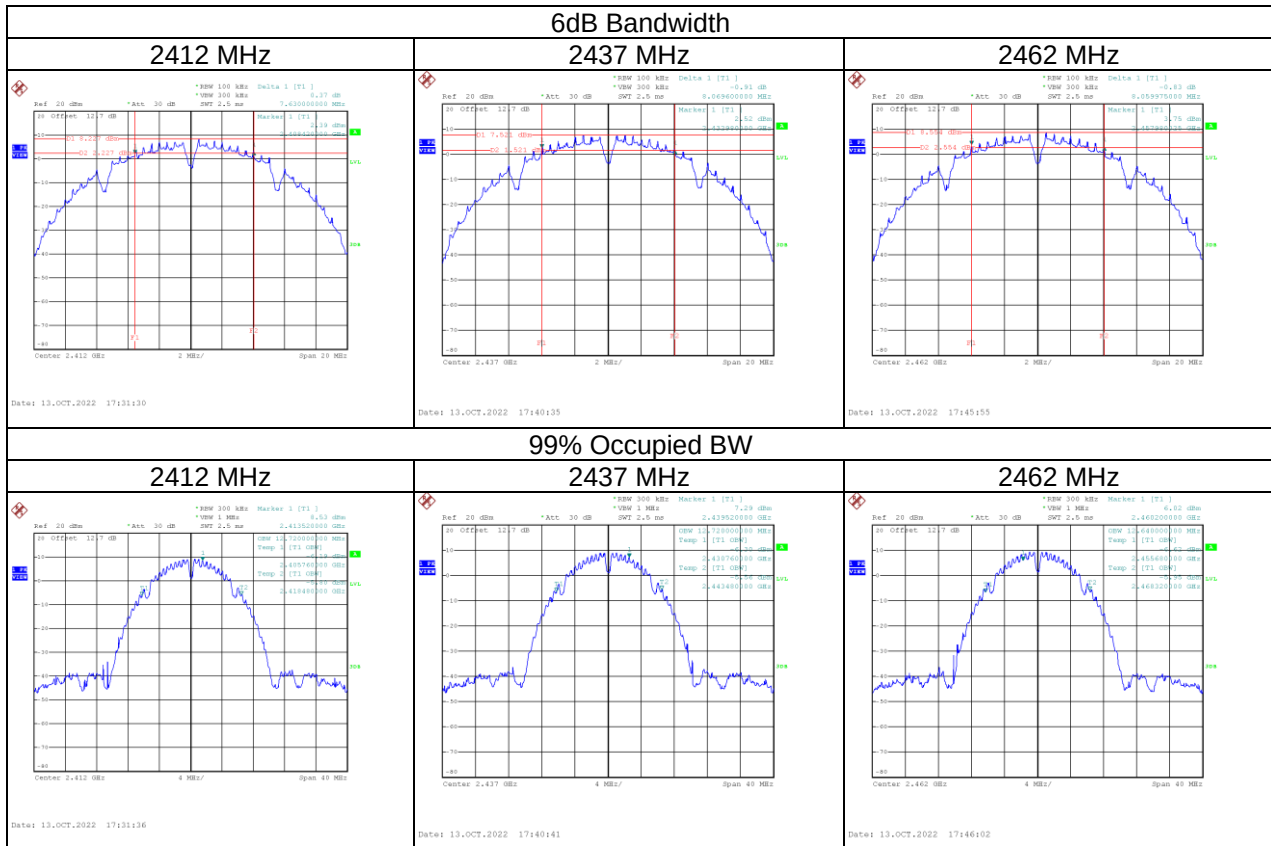
Test Mode	IEEE 802.11b_Antenna 1
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	7.630	12.640	≥ 500	Pass
2437	7.550	12.720	≥ 500	Pass
2462	7.590	12.560	≥ 500	Pass



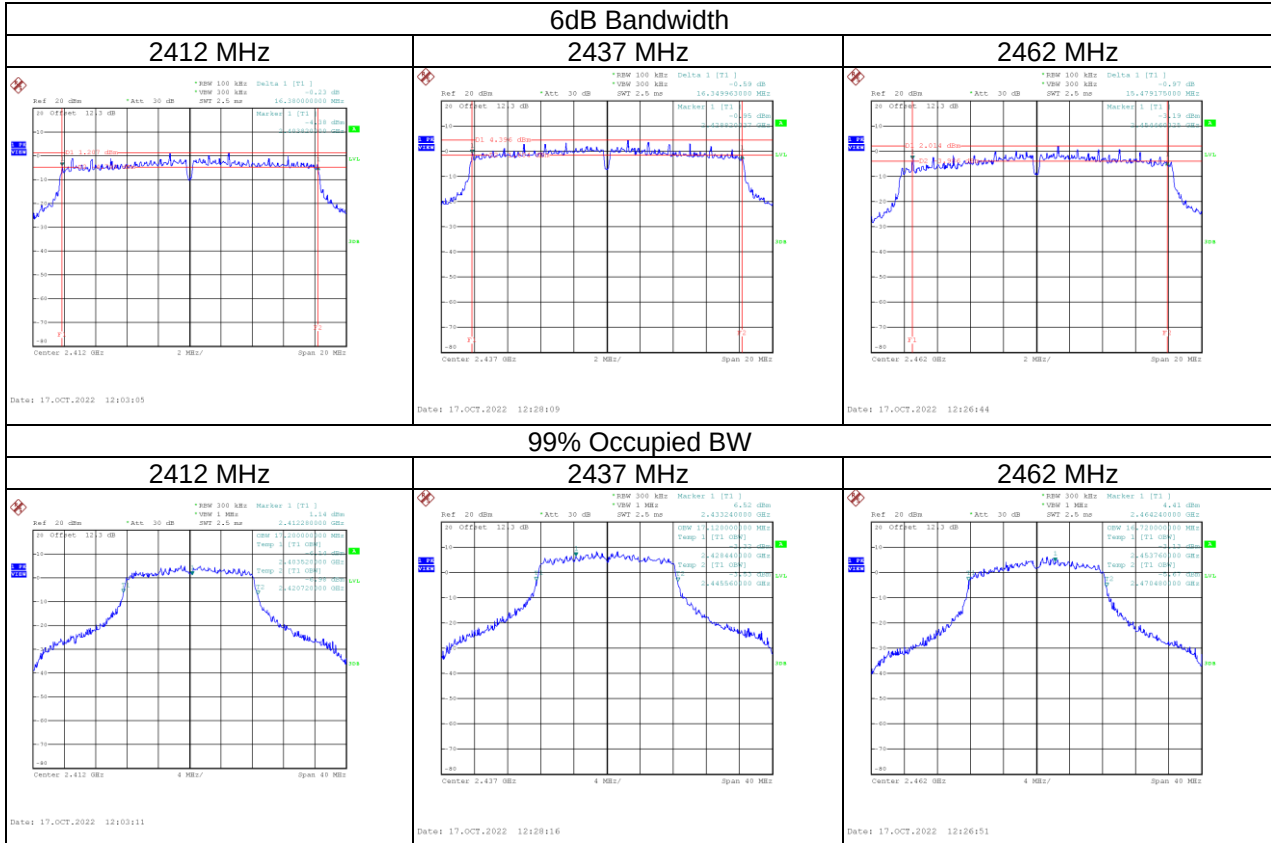
Test Mode	IEEE 802.11b_Antenna 2
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	7.630	12.720	≥ 500	Pass
2437	8.070	12.720	≥ 500	Pass
2462	8.060	12.640	≥ 500	Pass



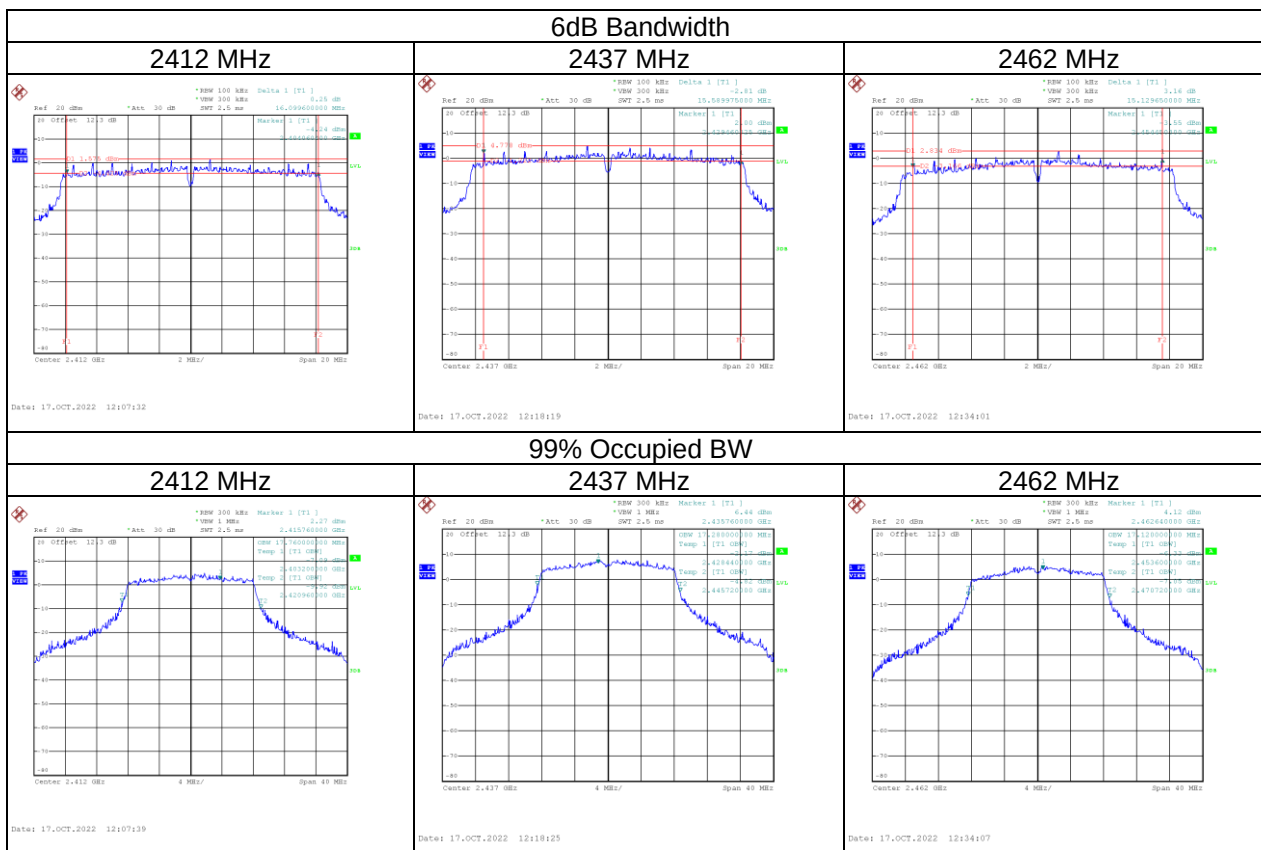
Test Mode	IEEE 802.11g_Antenna 1
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	16.380	17.200	≥ 500	Pass
2437	16.350	17.120	≥ 500	Pass
2462	15.479	16.720	≥ 500	Pass



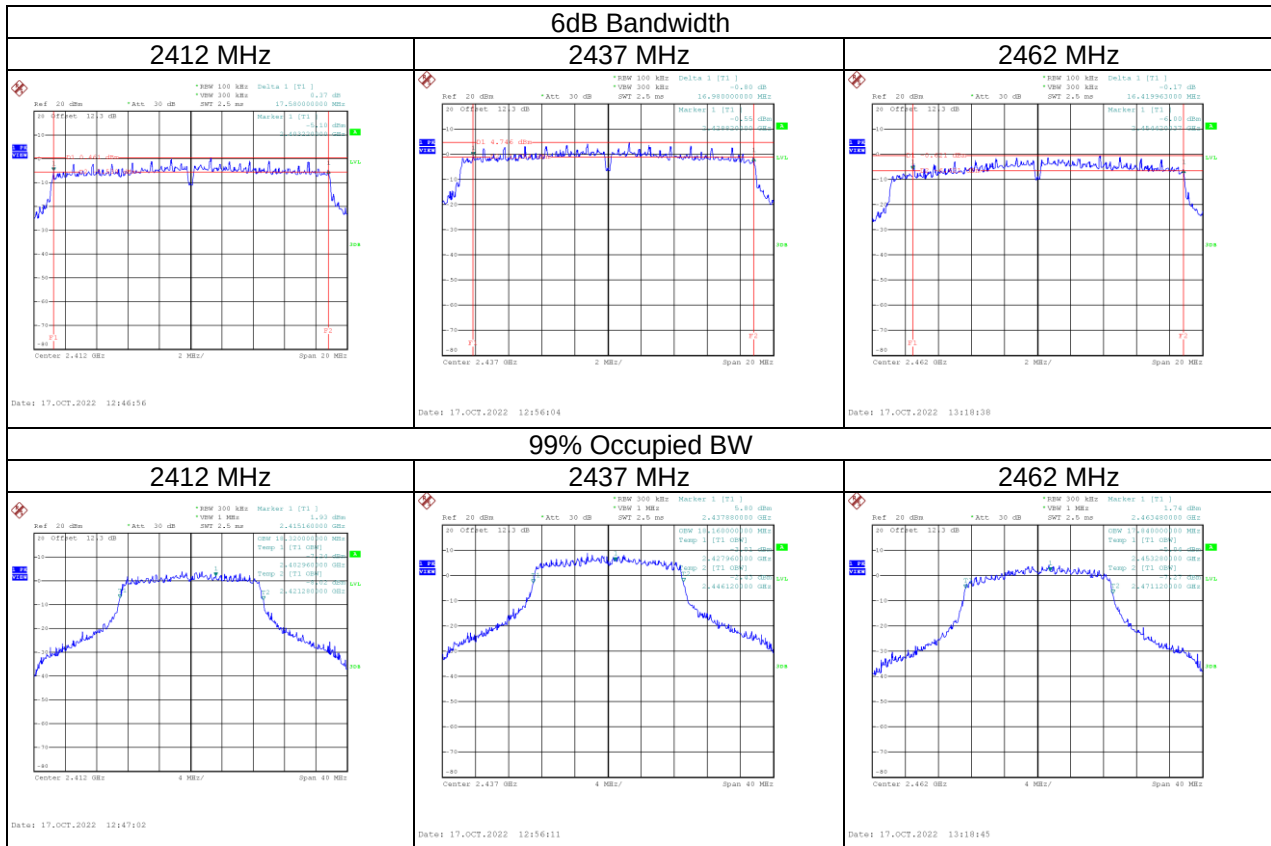
Test Mode	IEEE 802.11g, Antenna 2
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	16.100	17.760	≥ 500	Pass
2437	15.590	17.280	≥ 500	Pass
2462	15.130	17.120	≥ 500	Pass



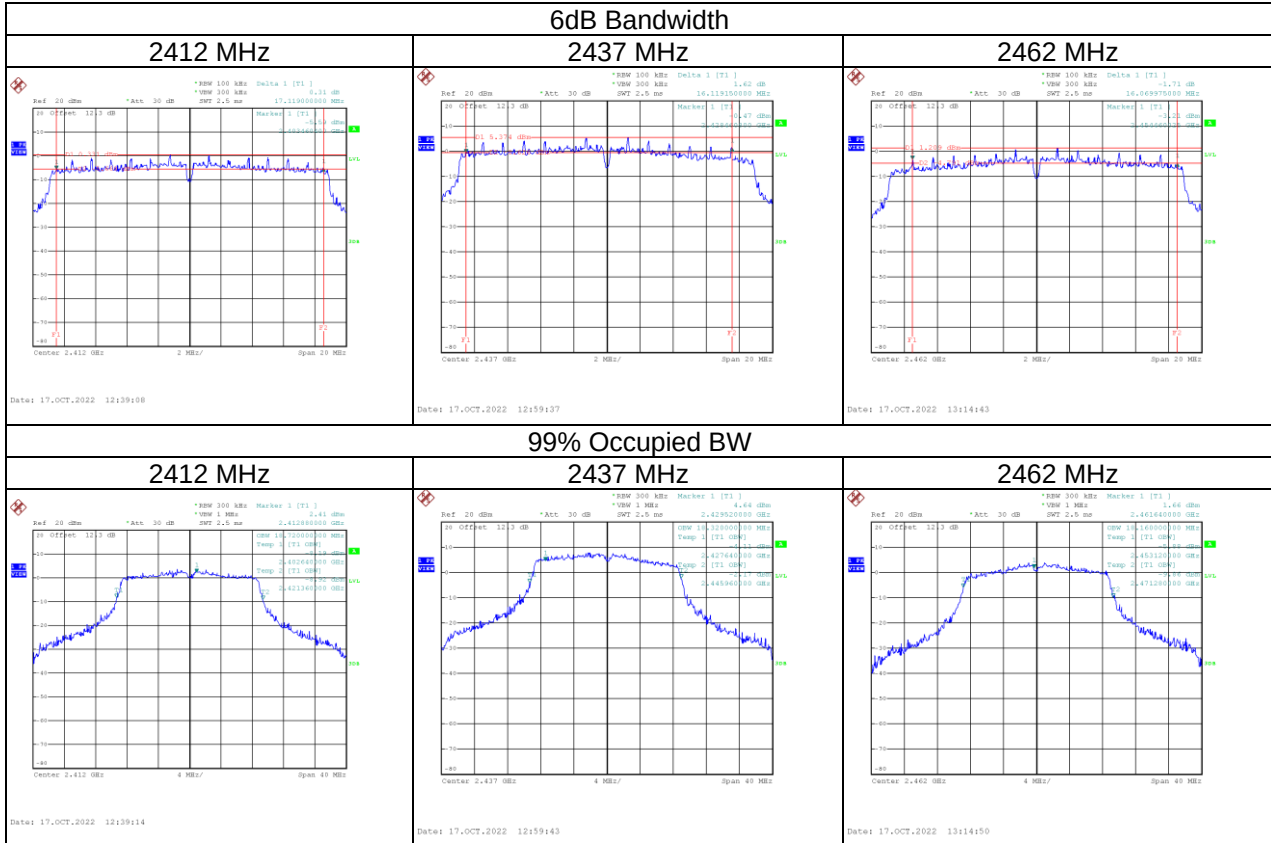
Test Mode	IEEE 802.11n (HT20)_Antenna 1
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	17.580	18.320	≥ 500	Pass
2437	16.980	18.160	≥ 500	Pass
2462	16.420	17.840	≥ 500	Pass



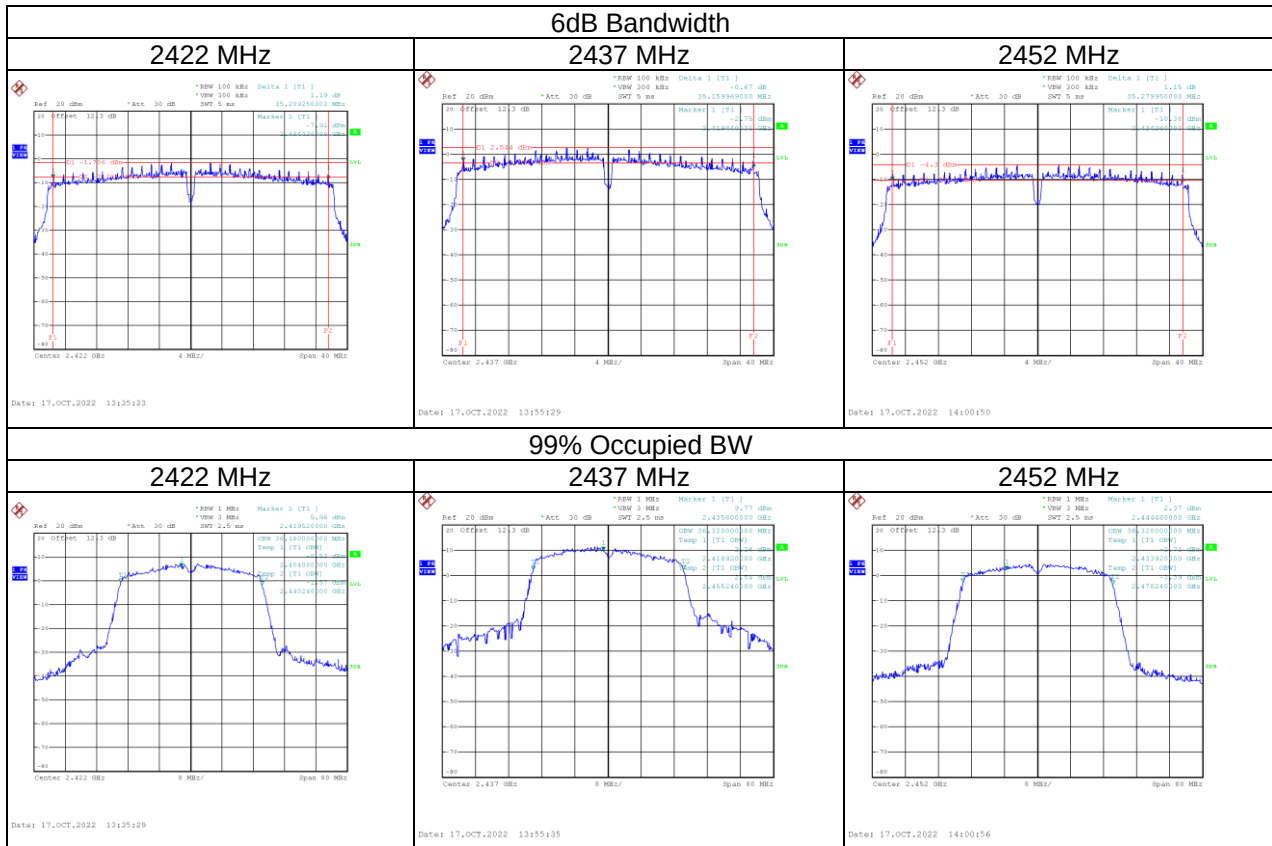
Test Mode	IEEE 802.11n (HT20)_Antenna 2
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	17.120	18.720	≥ 500	Pass
2437	16.119	18.320	≥ 500	Pass
2462	16.070	18.160	≥ 500	Pass



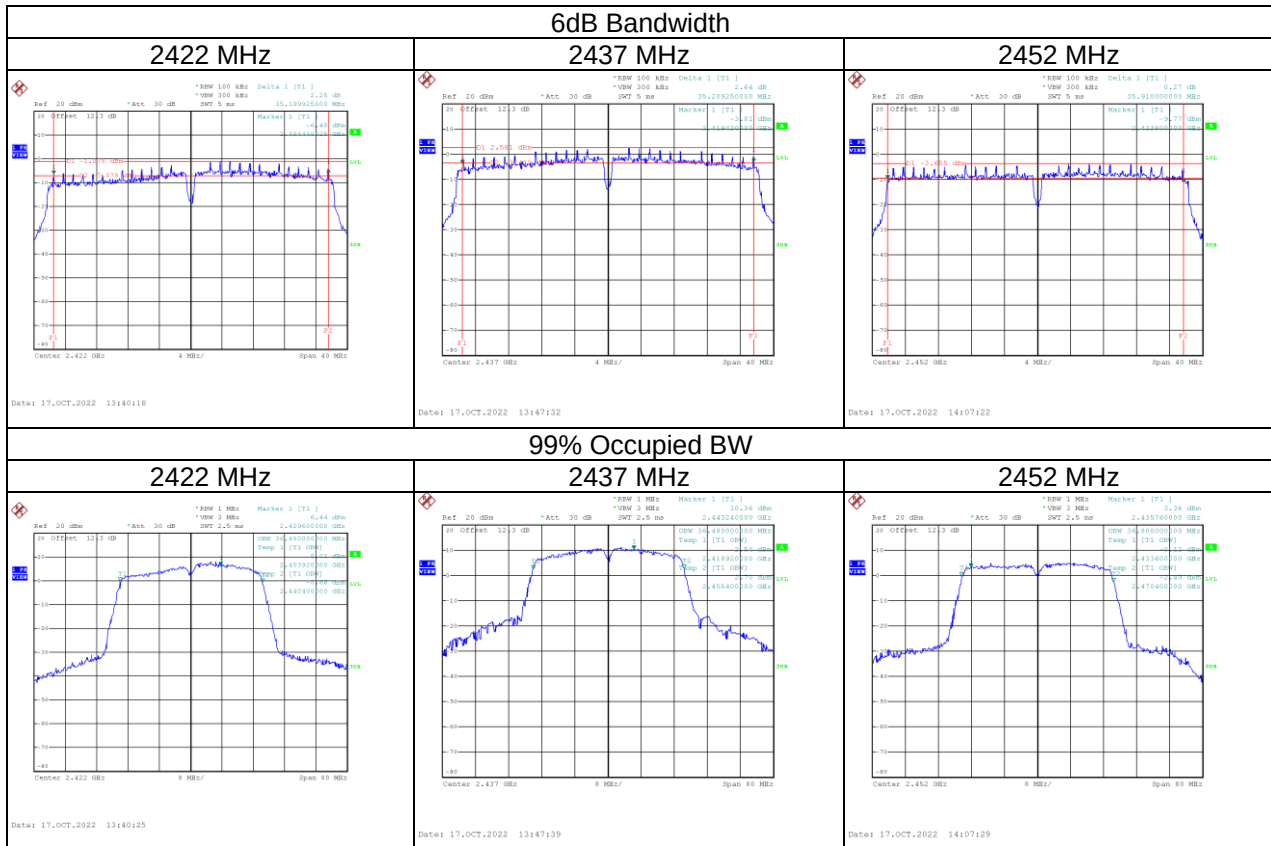
Test Mode	IEEE 802.11n (HT40)_Antenna 1
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2422	35.209	36.160	≥ 500	Pass
2437	35.160	36.320	≥ 500	Pass
2452	35.280	36.320	≥ 500	Pass



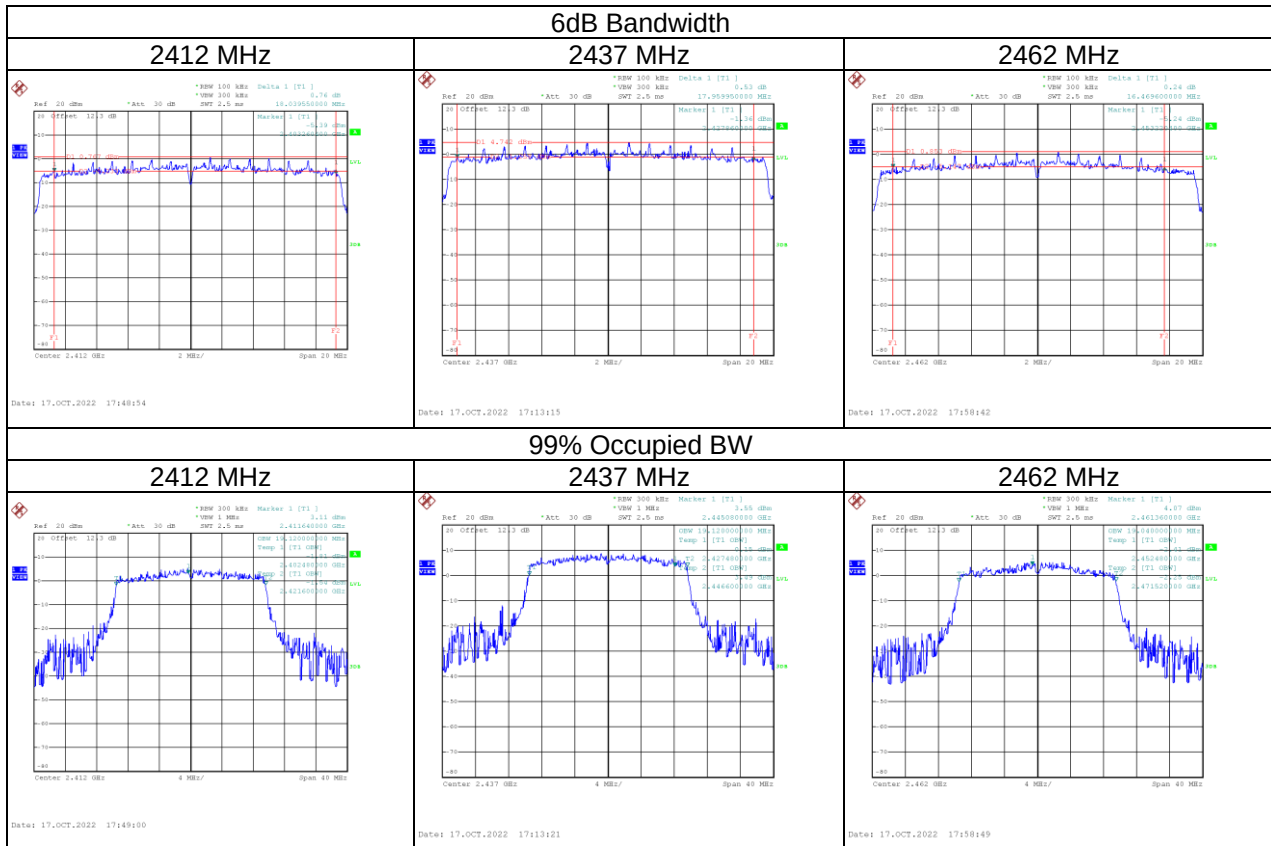
Test Mode	IEEE 802.11n (HT40)_Antenna 2
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2422	35.200	36.480	≥ 500	Pass
2437	35.209	36.480	≥ 500	Pass
2452	35.910	36.800	≥ 500	Pass



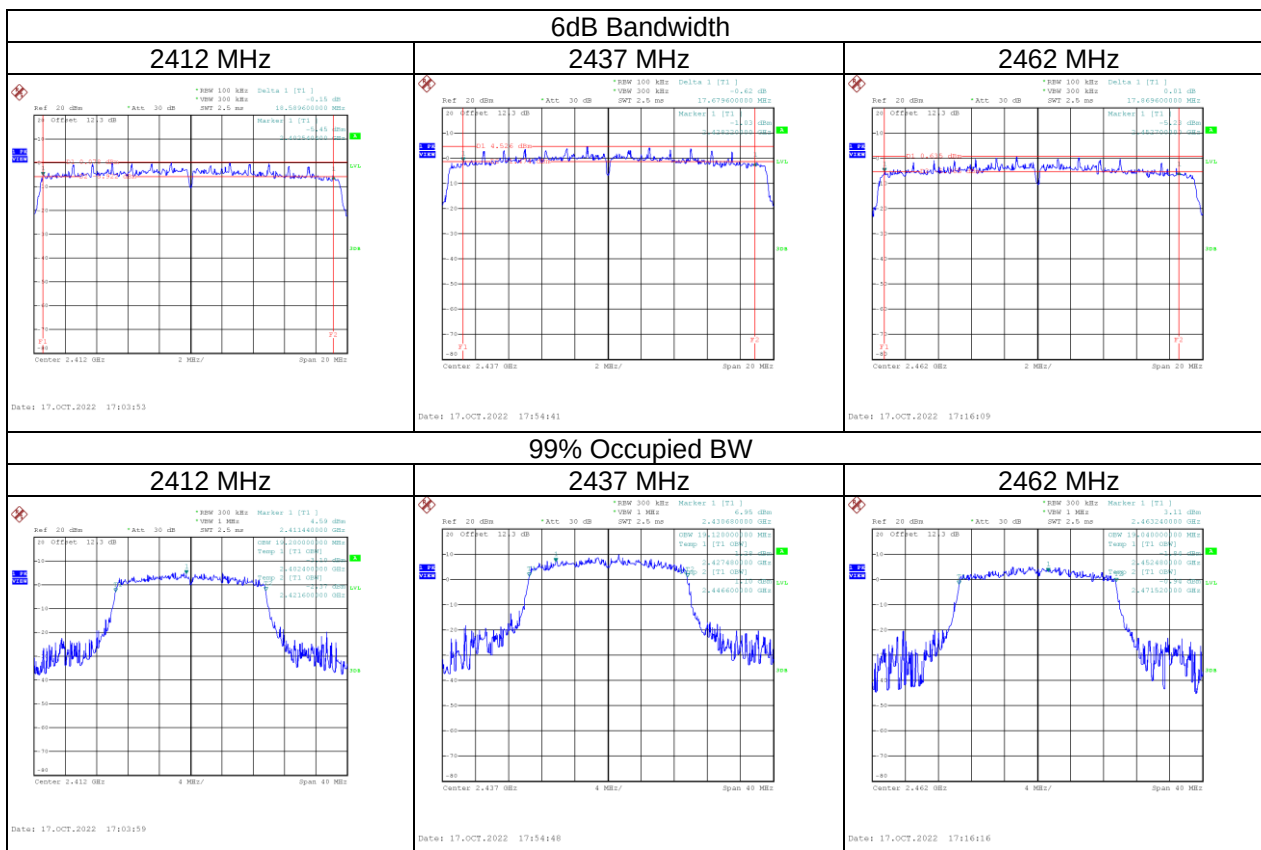
Test Mode	IEEE 802.11ax (HE20)_Antenna 1
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	18.040	19.120	≥ 500	Pass
2437	17.960	19.120	≥ 500	Pass
2462	16.470	19.040	≥ 500	Pass



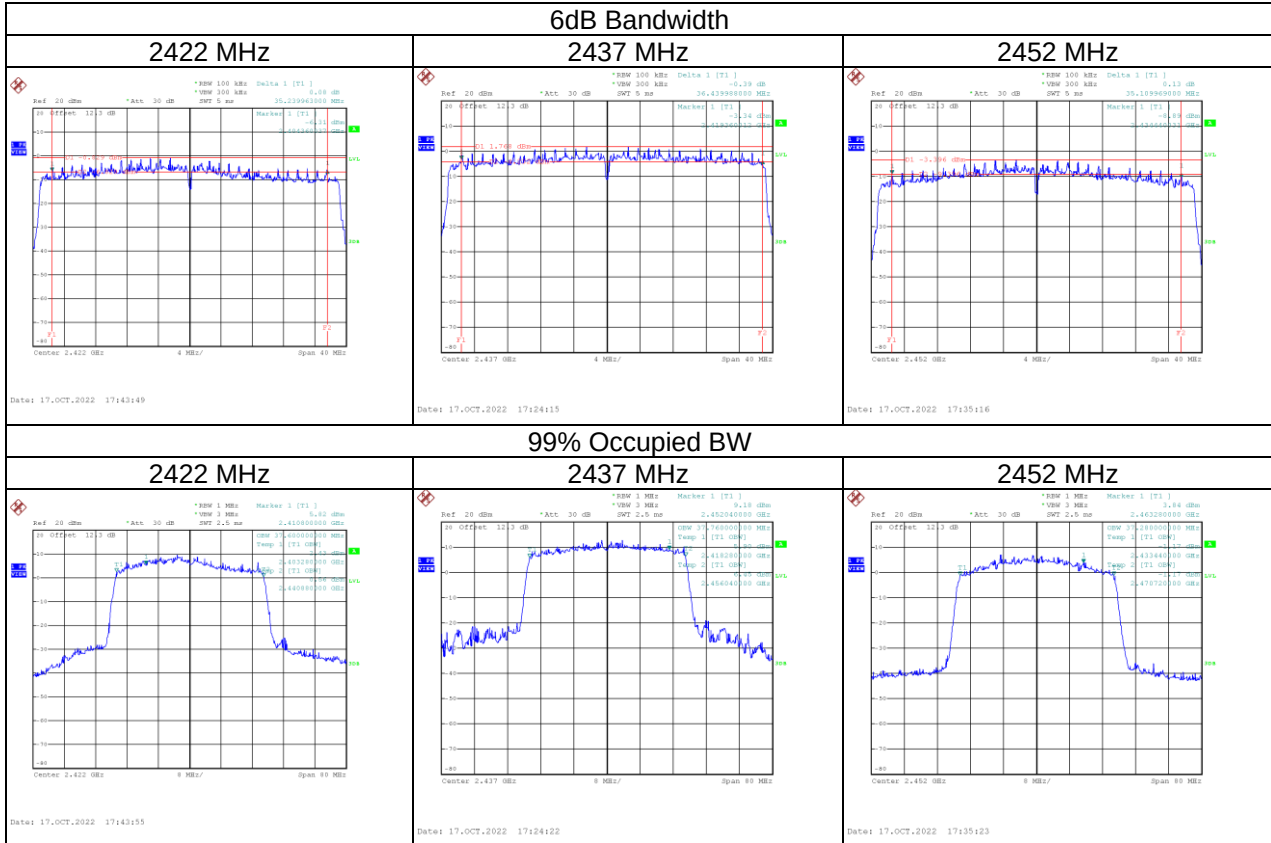
Test Mode	IEEE 802.11ax (HE20)_Antenna 2
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	18.590	19.200	≥ 500	Pass
2437	17.680	19.120	≥ 500	Pass
2462	17.870	19.040	≥ 500	Pass



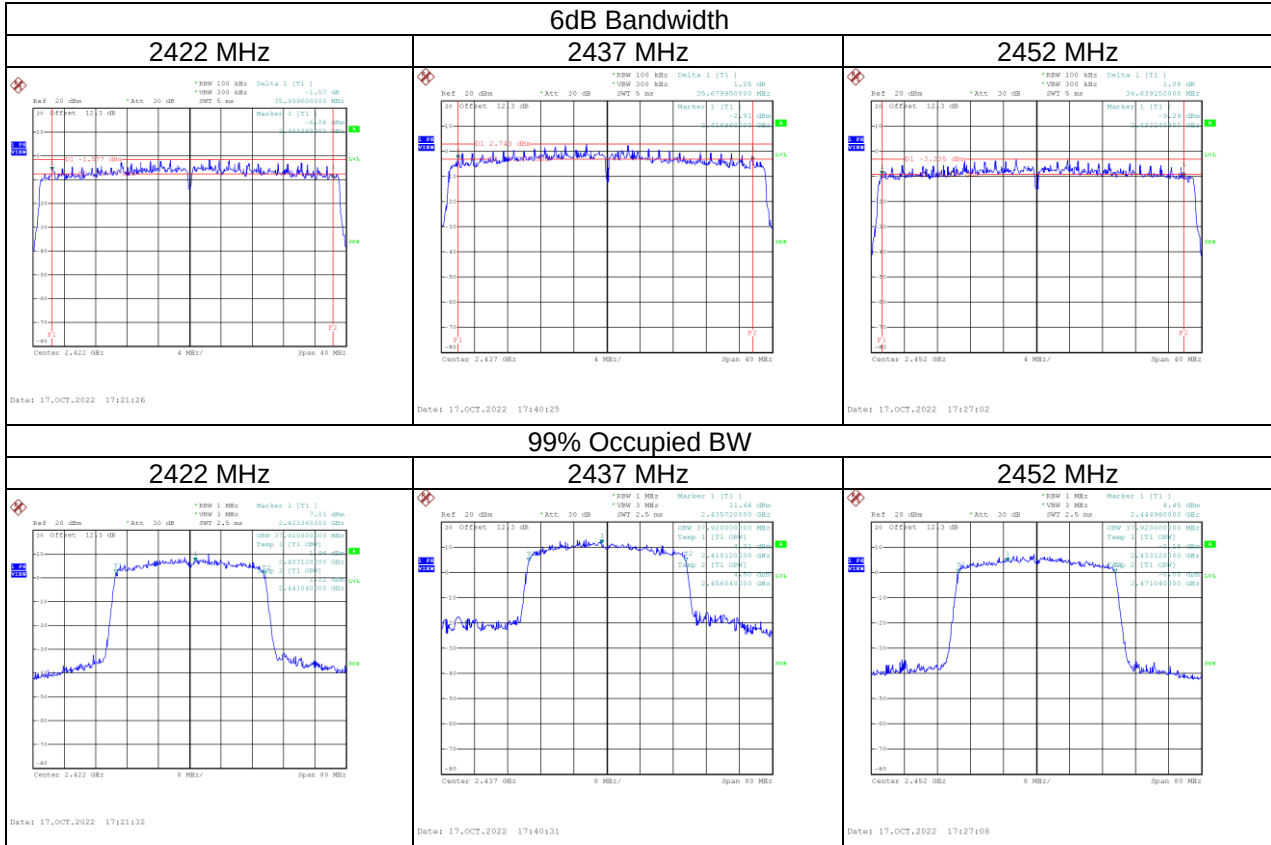
Test Mode	IEEE 802.11ax (HE40)_Antenna 1
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2422	35.240	37.600	≥ 500	Pass
2437	36.440	37.760	≥ 500	Pass
2452	35.110	37.280	≥ 500	Pass



Test Mode	IEEE 802.11ax (HE40)_Antenna 2
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2422	36.000	37.920	≥ 500	Pass
2437	35.680	37.920	≥ 500	Pass
2452	36.639	37.920	≥ 500	Pass



APPENDIX E OUTPUT POWER

Test Mode	IEEE 802.11b_Antenna 1	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	18.57	0.0719	30.00	1.0000	Complies
2437	18.44	0.0698	30.00	1.0000	Complies
2462	18.79	0.0757	30.00	1.0000	Complies

Test Mode	IEEE 802.11b_Antenna 2	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	19.34	0.0859	30.00	1.0000	Complies
2437	19.25	0.0841	30.00	1.0000	Complies
2462	19.42	0.0875	30.00	1.0000	Complies

Test Mode	IEEE 802.11b_Total	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	21.98	0.1578	30.00	1.0000	Complies
2437	21.87	0.1538	30.00	1.0000	Complies
2462	22.13	0.1633	30.00	1.0000	Complies

Test Mode	IEEE 802.11g_Antenna 1	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	20.96	0.1247	30.00	1.0000	Complies
2437	23.61	0.2296	30.00	1.0000	Complies
2462	21.56	0.1432	30.00	1.0000	Complies

Test Mode	IEEE 802.11g_Antenna 2	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	21.63	0.1455	30.00	1.0000	Complies
2437	23.92	0.2466	30.00	1.0000	Complies
2462	21.51	0.1416	30.00	1.0000	Complies

Test Mode	IEEE 802.11g_Total	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	24.32	0.2703	30.00	1.0000	Complies
2437	26.78	0.4764	30.00	1.0000	Complies
2462	24.55	0.2848	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT20)_Antenna 1	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	20.19	0.1045	30.00	1.0000	Complies
2437	23.49	0.2234	30.00	1.0000	Complies
2462	20.37	0.1089	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT20)_Antenna 2	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	20.45	0.1109	30.00	1.0000	Complies
2437	23.67	0.2328	30.00	1.0000	Complies
2462	20.90	0.1230	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT20)_Total	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	23.33	0.2154	30.00	1.0000	Complies
2437	26.59	0.4560	30.00	1.0000	Complies
2462	23.65	0.2319	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT40)_Antenna 1	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	16.53	0.0450	30.00	1.0000	Complies
2437	23.14	0.2061	30.00	1.0000	Complies
2452	17.77	0.0598	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT40)_Antenna 2	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	16.98	0.0499	30.00	1.0000	Complies
2437	23.46	0.2218	30.00	1.0000	Complies
2452	18.79	0.0757	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT40) _Total	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	19.77	0.0949	30.00	1.0000	Complies
2437	26.31	0.4279	30.00	1.0000	Complies
2452	21.32	0.1355	30.00	1.0000	Complies

Test Mode	IEEE vht20_Antenna 1	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	19.51	0.0893	30.00	1.0000	Complies
2437	23.81	0.2404	30.00	1.0000	Complies
2462	20.16	0.1038	30.00	1.0000	Complies

Test Mode	IEEE vht20_Antenna 2	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	20.03	0.1007	30.00	1.0000	Complies
2437	24.05	0.2541	30.00	1.0000	Complies
2462	21.25	0.1334	30.00	1.0000	Complies

Test Mode	IEEE vht20_Total	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	22.79	0.1900	30.00	1.0000	Complies
2437	26.94	0.4943	30.00	1.0000	Complies
2462	23.75	0.2371	30.00	1.0000	Complies

Test Mode	IEEE vht40_Antenna 1	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	14.75	0.0299	30.00	1.0000	Complies
2437	22.81	0.1910	30.00	1.0000	Complies
2452	16.66	0.0463	30.00	1.0000	Complies

Test Mode	IEEE vht40_Antenna 2	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	15.33	0.0341	30.00	1.0000	Complies
2437	23.62	0.2301	30.00	1.0000	Complies
2452	17.92	0.0619	30.00	1.0000	Complies

Test Mode	IEEE vht40_Total	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	18.06	0.0640	30.00	1.0000	Complies
2437	26.24	0.4211	30.00	1.0000	Complies
2452	20.35	0.1083	30.00	1.0000	Complies

Test Mode	IEEE 802.11ax (HE20)_Antenna 1	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	20.57	0.1140	30.00	1.0000	Complies
2437	22.28	0.1690	30.00	1.0000	Complies
2462	20.05	0.1012	30.00	1.0000	Complies

Test Mode	IEEE 802.11ax (HE20)_Antenna 2	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	20.23	0.1054	30.00	1.0000	Complies
2437	22.65	0.1841	30.00	1.0000	Complies
2462	20.21	0.1050	30.00	1.0000	Complies

Test Mode	IEEE 802.11ax (HE20) _Total	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	23.41	0.2195	30.00	1.0000	Complies
2437	25.48	0.3532	30.00	1.0000	Complies
2462	23.14	0.2061	30.00	1.0000	Complies

Test Mode	IEEE 802.11ax (HE40)_Antenna 1	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	15.21	0.0332	30.00	1.0000	Complies
2437	23.94	0.2477	30.00	1.0000	Complies
2452	15.95	0.0394	30.00	1.0000	Complies

Test Mode	IEEE 802.11ax (HE40)_Antenna 2	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	15.85	0.0385	30.00	1.0000	Complies
2437	24.15	0.2600	30.00	1.0000	Complies
2452	16.91	0.0491	30.00	1.0000	Complies

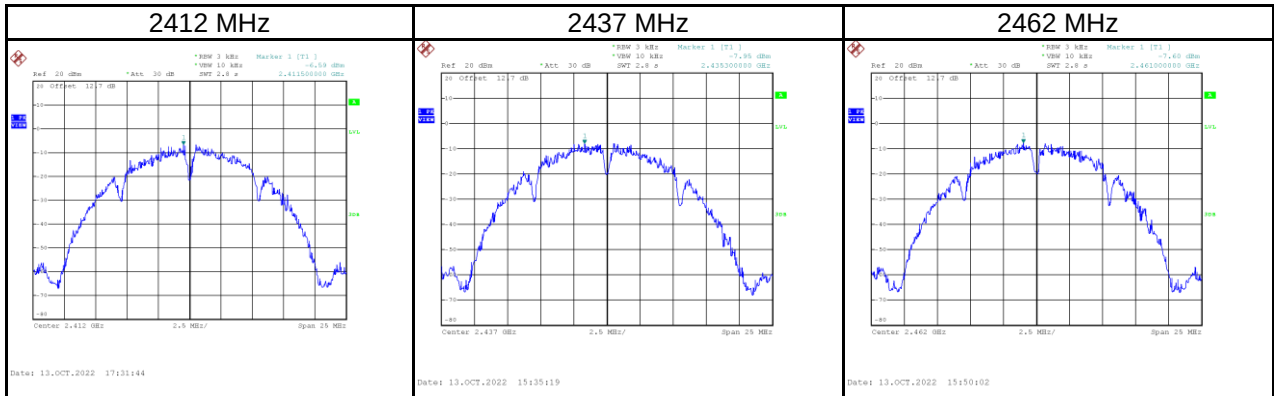
Test Mode	IEEE 802.11ax (HE40) _Total	Tested Date	2022/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	18.55	0.0716	30.00	1.0000	Complies
2437	27.06	0.5078	30.00	1.0000	Complies
2452	19.47	0.0884	30.00	1.0000	Complies

APPENDIX F POWER SPECTRAL DENSITY

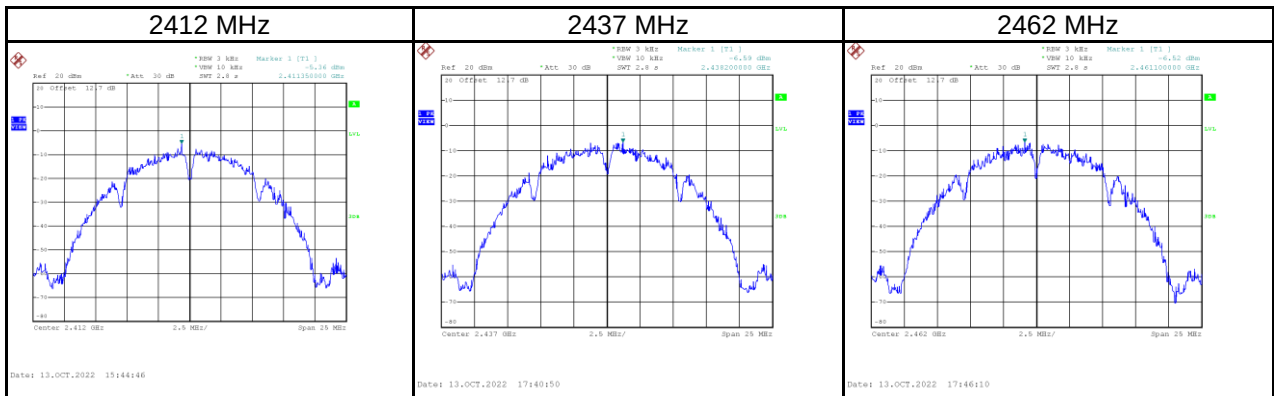
Test Mode	IEEE 802.11b_Antenna 1
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-6.59	8.00	Pass
2437	-7.95	8.00	Pass
2462	-7.60	8.00	Pass



Test Mode	IEEE 802.11b_Antenna 2
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-5.36	8.00	Pass
2437	-6.59	8.00	Pass
2462	-6.52	8.00	Pass

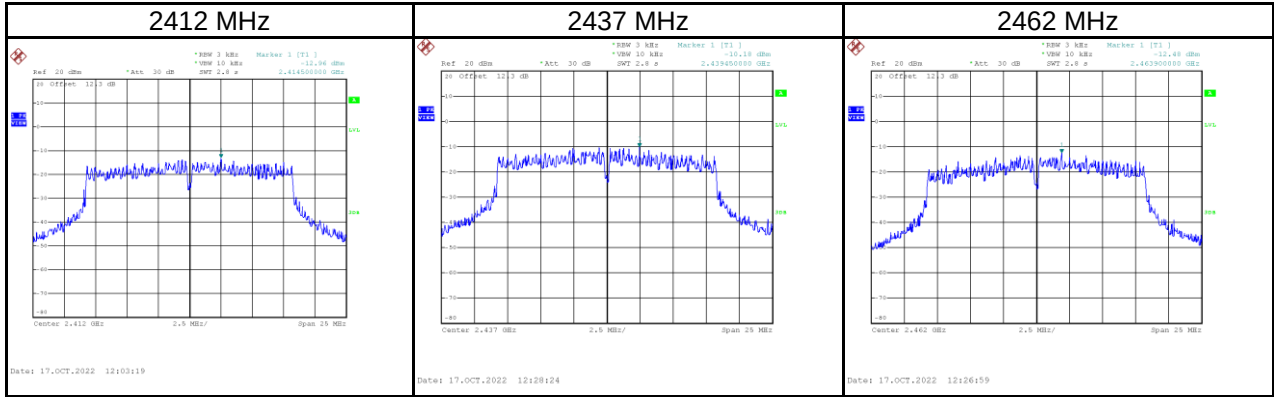


Test Mode	IEEE 802.11b_Total
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-2.92	8.00	Pass
2437	-4.21	8.00	Pass
2462	-4.02	8.00	Pass

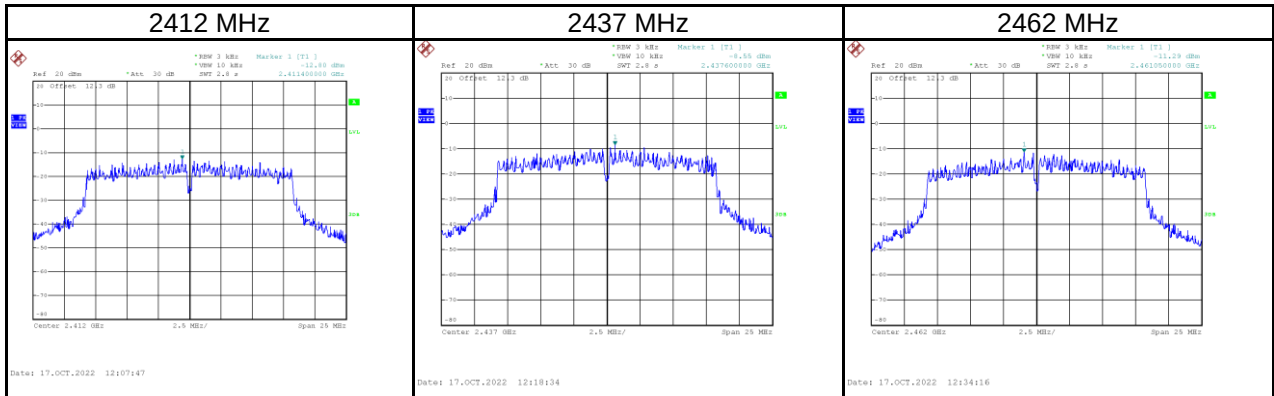
Test Mode	IEEE 802.11g_Antenna 1
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-12.96	8.00	Pass
2437	-10.18	8.00	Pass
2462	-12.48	8.00	Pass



Test Mode	IEEE 802.11g_Antenna 2
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-12.80	8.00	Pass
2437	-8.55	8.00	Pass
2462	-11.29	8.00	Pass

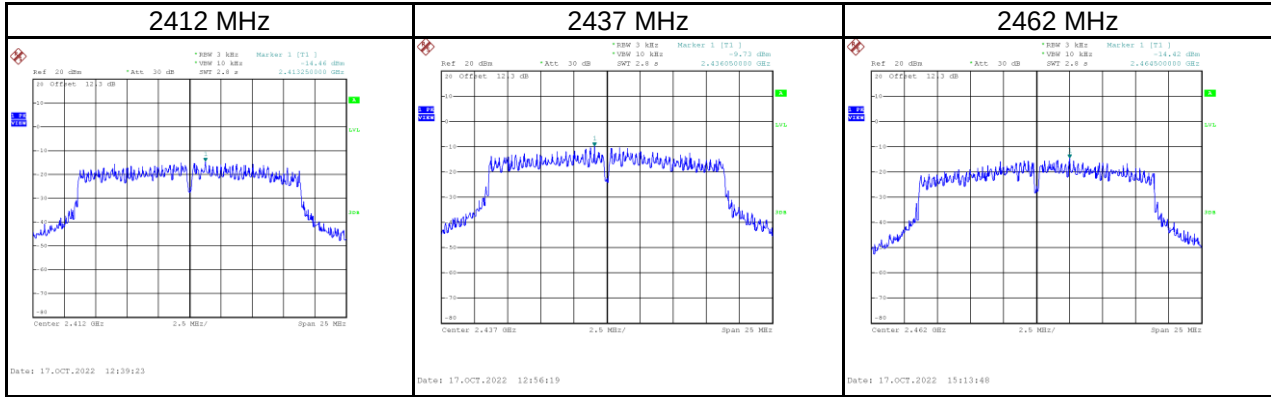


Test Mode	IEEE 802.11g_Total
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-9.87	8.00	Pass
2437	-6.28	8.00	Pass
2462	-8.83	8.00	Pass

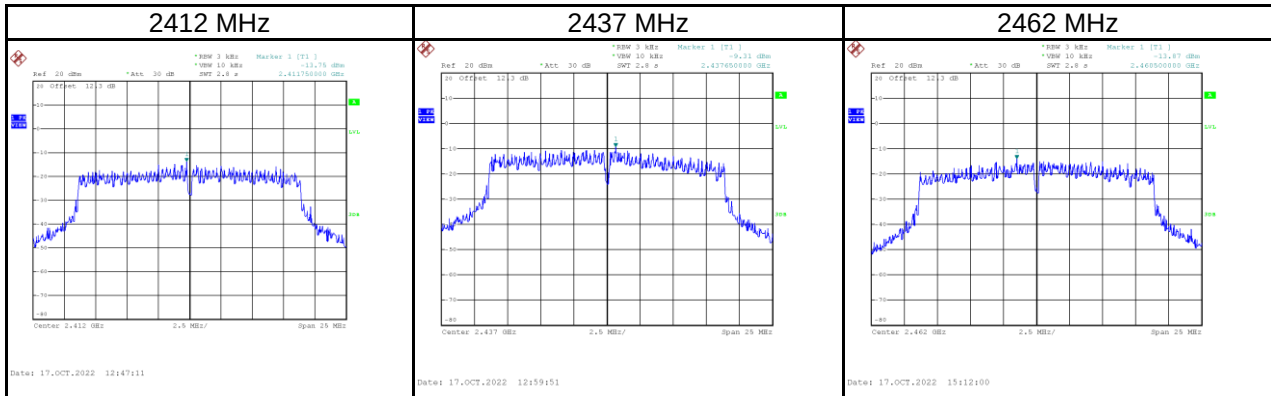
Test Mode	IEEE 802.11n (HT20)_Antenna 1
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-14.46	8.00	Pass
2437	-9.73	8.00	Pass
2462	-14.42	8.00	Pass



Test Mode	IEEE 802.11n (HT20)_Antenna 2
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-13.75	8.00	Pass
2437	-9.31	8.00	Pass
2462	-13.87	8.00	Pass



Test Mode	IEEE 802.11n (HT20)_Total
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-11.08	8.00	Pass
2437	-6.50	8.00	Pass
2462	-11.13	8.00	Pass