

FCC Radio Test Report

FCC ID: M82-EKI1360CE

Report No. : BTL-FCCP-1-2112T115
Equipment : Ethernet Device
Model Name : EKI-1362-CE, EKI-1361-CE, EKI-6233BN, EKI-136X-CE,
 EKI-136X-MB-CE, EKI136XXXXXX, EKI-136X-CXXXXXXX,
 EKI-6233XXXXXXX (where "X" may be any alphanumeric character ,
 blank or "-".)
Brand Name : ADVANTECH
Applicant : Advantech Co., Ltd.
Address : No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 11491,
 Taiwan, R.O.C.


Radio Function : WLAN 2.4 GHz

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

Date of Receipt : 2021/12/24
Date of Test : 2021/12/24 ~ 2022/6/9
Issued Date : 2022/7/14

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

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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

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

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

Limitation

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

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

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2112T115	R00	Original Report.	2022/4/15	Invalid
BTL-FCCP-1-2112T115	R01	Added series model.	2022/4/26	Invalid
BTL-FCCP-1-2112T115	R02	Revised report to address TCB's comments and added two appearances.	2022/6/17	Invalid
BTL-FCCP-1-2112T115	R03	Revised report to address TCB's comments and added two appearances.	2022/7/14	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.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

The test sites and facilities are covered under FCC RN: 270329; FCC DN: TW0030.

C03 CB18 CB19

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
 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)
C03	CISPR	150 kHz ~ 30 MHz	3.28

B. Radiated emissions test :

Test Site	Measurement Frequency Range	U,(dB)
CB15	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, 69%	DC 12V	Ken Lin
Radiated emissions below 1 GHz	22 °C, 65 % 22 °C, 51 %	DC 48V	Vincent Lee Eddie Lee
Radiated emissions above 1 GHz	20 °C, 61~62 %	DC 48V	Vincent Lee
Bandwidth	25.4 °C, 51 %	DC 48V	Paul Shen
Output Power	25.4 °C, 51 %	DC 48V	Paul Shen
Power Spectral Density	25.4 °C, 51 %	DC 48V	Paul Shen
Antenna conducted Spurious Emission	25.4 °C, 51 %	DC 48V	Paul Shen

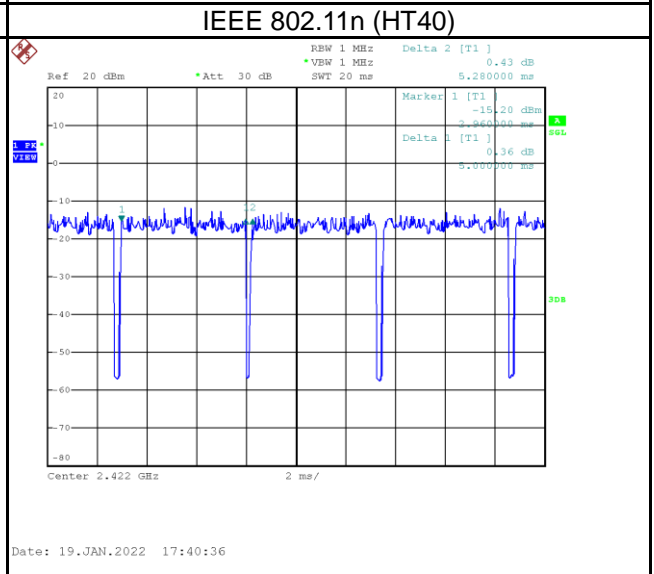
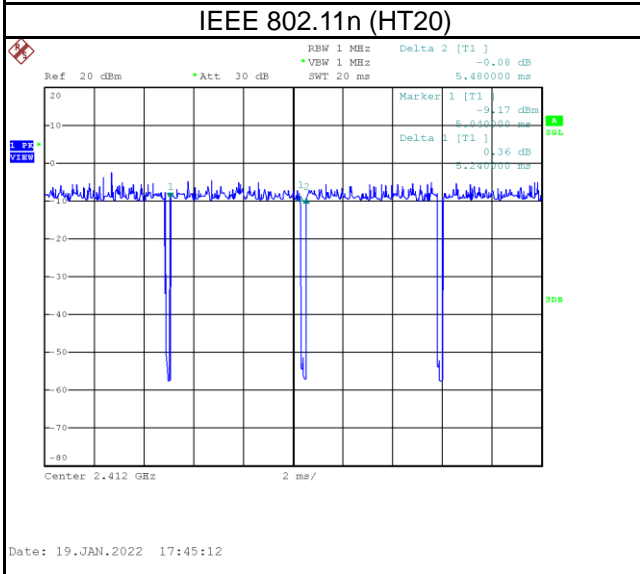
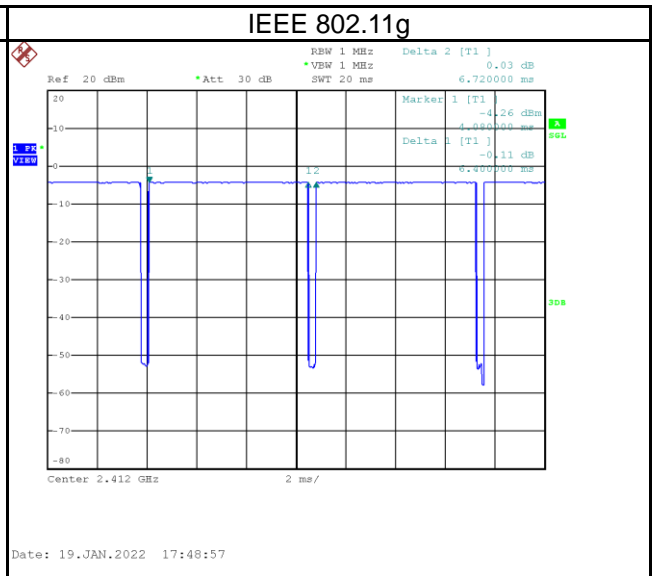
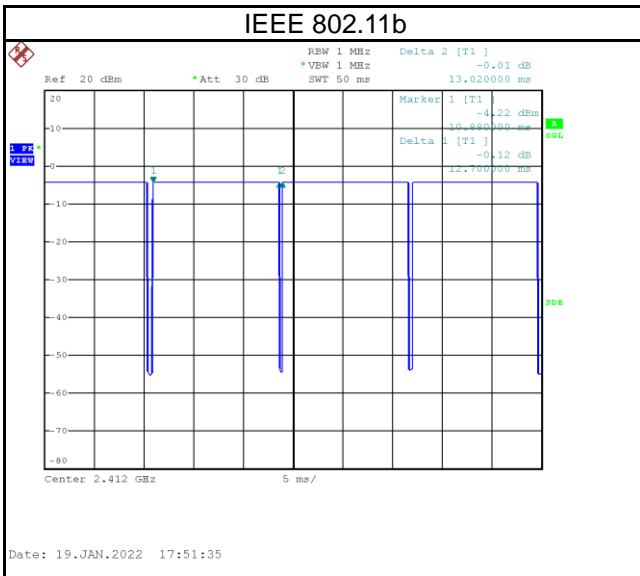
1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

Test Software	Putty Release 0.62			
Mode	2412 MHz	2437 MHz	2462 MHz	Data Rate
IEEE 802.11b	1000	1000	1000	1 Mbps
IEEE 802.11g	1000	1000	1000	6 Mbps
IEEE 802.11n (HT20)	1000	1000	1000	MCS 0
Mode	2422 MHz	2437 MHz	2452 MHz	Data Rate
IEEE 802.11n (HT40)	1000	1000	1000	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	12.700	1	12.700	13.020	97.54%	0.11
IEEE 802.11g	6.400	1	6.400	6.720	95.24%	0.21
IEEE 802.11n (HT20)	5.240	1	5.240	5.480	95.62%	0.19
IEEE 802.11n (HT40)	5.000	1	5.000	5.280	94.70%	0.24



2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Ethernet Device
Model Name	EKI-1362-CE, EKI-1361-CE, EKI-6233BN, EKI-136X-CE, EKI-136X-MB-CE, EKI136XXXXXX, EKI-136X-CXXXXXXX, EKI-6233XXXXXXX (where "X" may be any alphanumeric character , blank or "-".)
Brand Name	ADVANTECH
Model Difference	Different model are due to marketing purpose and COM port quantity difference.
Power Source	DC Voltage supplied from DC power supply.
Power Rating	DC 12-48V
Products Covered	1 * CPU: Microchip Technology / SAM9X60T-V/DWB, 600MHZ 1 * Mother Board: ADVANTECH / EKI-1362-CE 1 * Memory: DDR2-800M 1Gb 1 * WLAN Module: Azure Wave / AW-CM276NF 2 * Antenna: Cortec / AN2450-92K01BRS
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 300 Mbps
Output Power Max.	IEEE 802.11b: 16.22 dBm (0.0418 W) IEEE 802.11g: 21.76 dBm (0.1498 W) IEEE 802.11n (HT20): 22.54 dBm (0.1793 W) IEEE 802.11n (HT40): 22.30 dBm (0.1697 W)
Test Model	EKI-1362-CE, EKI-1361-CE, EKI-6233BN
Sample Status	Engineering Sample
EUT Modification(s)	N/A



NOTE:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

(2) Channel List:

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

(3) Table for Filed Antenna:

Antenna	Manufacture	Product Number	Type	Connector	Frequency (MHz)	Gain (dBi)
1		AN2450-92K01BRS	Dipole	SMA Male Reverse	2400-2500	5.03
					5150-5850	5.01
2		AN2450-92K01BRS	Dipole	SMA Male Reverse	2400-2500	5.03
					5150-5850	5.01

Note:

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

(2) For Power Spectral Density (CDD mode)

$$\text{Directional Gain} = 10 \cdot \log\{[10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_n/20}]^2 / N_{\text{ANT}}\} = 8.04 \text{ dBi} > 6 \text{ dBi}$$

The reduced power spectral density limits (dBm/3 kHz) = 8 - (8.04 - 6) = 5.96

(3) For Conducted Output Power (CDD mode)

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

$$\text{Direction gain} = G_{\text{ANT}} + 0 = 5.03 + 0 = 5.03 \text{ dBi} .$$

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

(4) Operating Mode and Antenna Configuration

Operating Mode	TX Mode	2TX
IEEE 802.11b		V (ANT 1+ ANT 2)
IEEE 802.11g		V (ANT 1+ ANT 2)
IEEE 802.11n (HT20)		V (ANT 1+ ANT 2)
IEEE 802.11n (HT40)		V (ANT 1+ ANT 2)

2.2 TEST MODES

Test Items	Test mode	Channel	Note
Transmitter Radiated Emissions (below 1GHz)	TX Mode_IEEE 802.11b	11	NOTE (3)
Transmitter Radiated Emissions (above 1GHz)	TX Mode_IEEE 802.11b	01/11	Bandedge
	TX Mode_IEEE 802.11g		
	TX Mode_IEEE 802.11n (HT20)	03/09	
	TX Mode_IEEE 802.11n (HT40)		
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)	03/06/09	
	TX Mode_IEEE 802.11n (HT40)		
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)	03/06/09	
	TX Mode_IEEE 802.11n (HT40)		

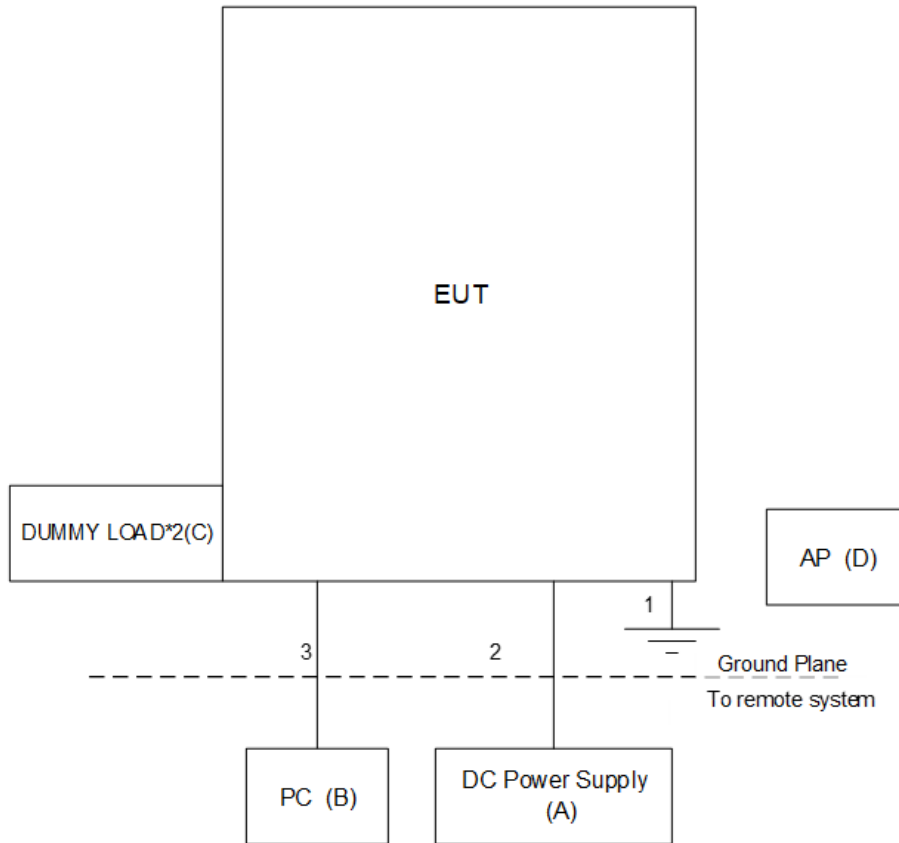
NOTE:

- (1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Horizontal) is recorded.
- (2) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.
- (3) This test item is performed on model EKI-1361-CE and EKI-6233BN for verification and record only.

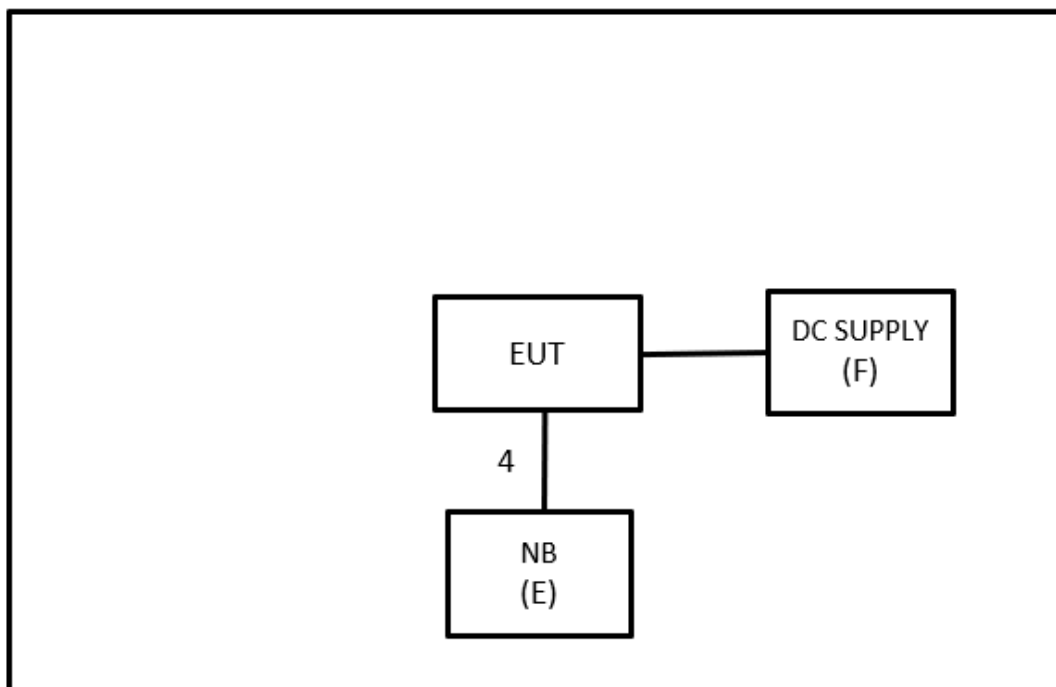
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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	DC Power Supply	IDRC	DSP-080-019HD	342947	Furnished by test lab.
B	PC	DELL	OptiPlex 7040	611WJA00	Furnished by test lab.
C	Dummy Load	N/A	N/A	N/A	Furnished by test lab.
D	Router	ASUS	RT-AC66U	E11TGG000235	Furnished by test lab.
E	NB	ACER	TMP446-M50L4	N/A	Furnished by test lab.
F	DC Power Supply	TWINTEX	TPS-6015	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	1.8m	Ground Cable	Furnished by test lab.
2	N/A	N/A	5m	Power Cable	Furnished by test lab.
3	N/A	N/A	10m	RJ-45 Cable	Furnished by test lab.
4	N/A	N/A	1m	RJ-45 Cable	Furnished by test lab.

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

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

NOTE:

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

Reading Level		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.

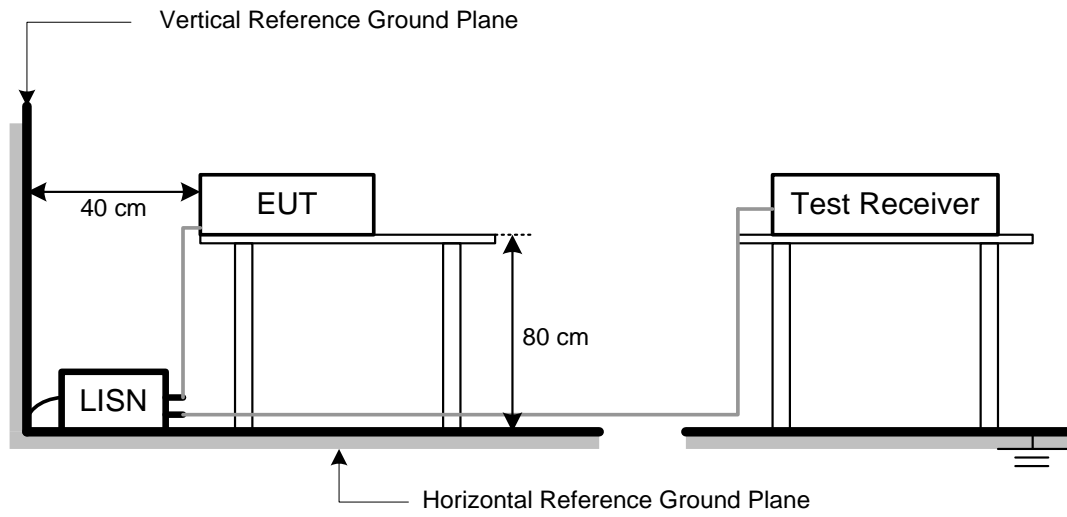
NOTE:

- (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 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

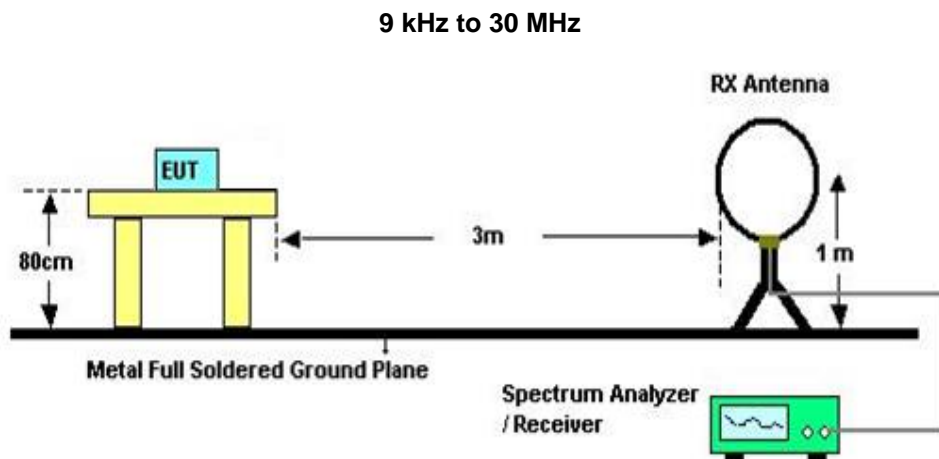
4.2 TEST PROCEDURE

- a. 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)
- b. 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)
- c. 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.
- d. 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).
- e. 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.
- f. 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.
- g. 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)
- h. 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)
- i. For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

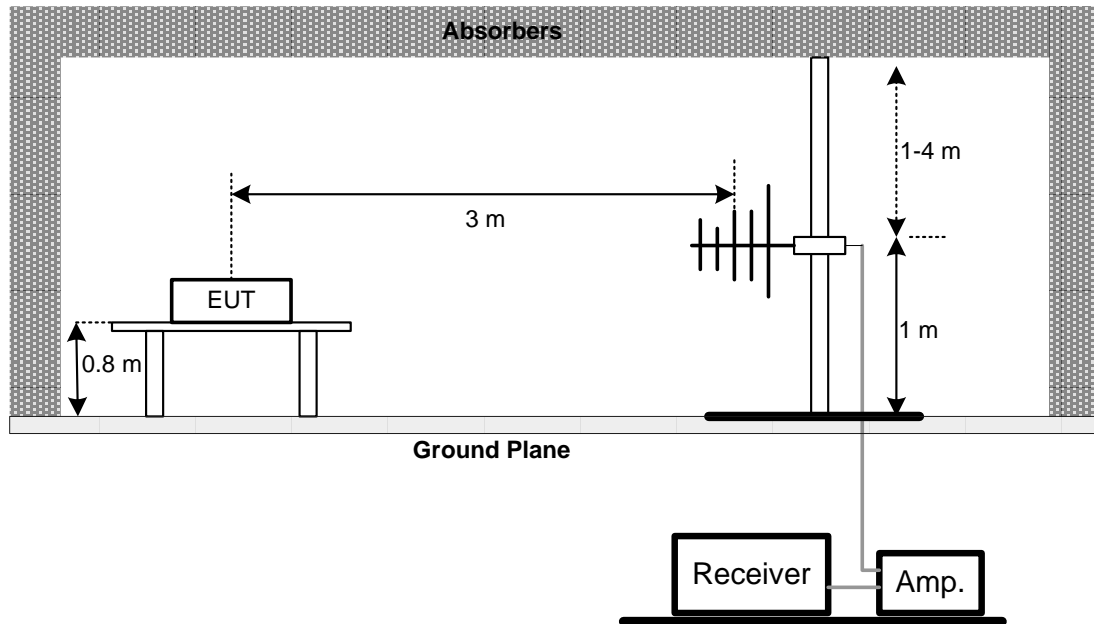
4.3 DEVIATION FROM TEST STANDARD

No deviation.

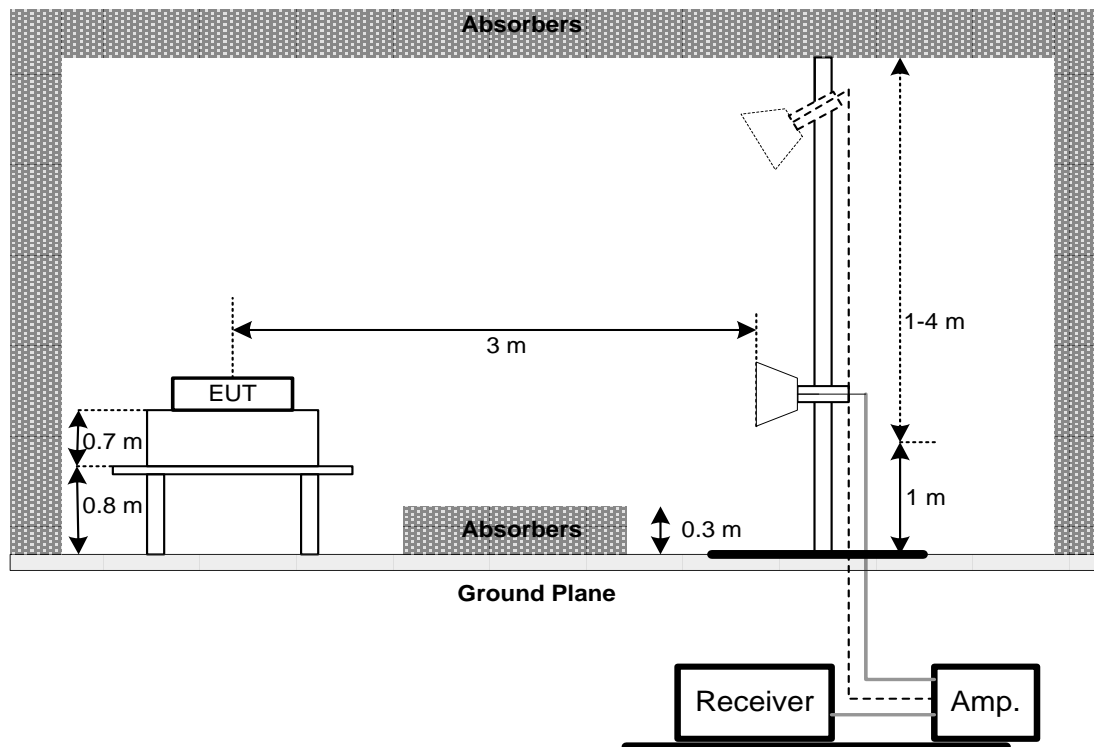
4.4 TEST SETUP



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

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

5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT

Please refer to the APPENDIX D.

6 OUTPUT POWER TEST**6.1 LIMIT**

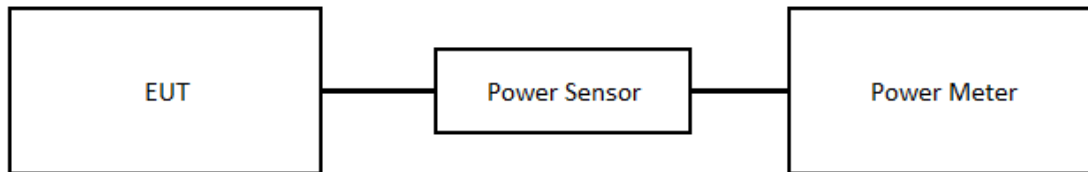
FCC Part15, Subpart C (15.247)		
Section	Test Item	Limit
15.247(b)	Maximum Output Power	1 Watt or 30dBm

6.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. The maximum peak conducted output power was performed in accordance with FCC KDB 558074 D01 15.247 Meas Guidance.
- c. 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

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

7.3 DEVIATION FROM TEST STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULT

Please refer to the APPENDIX 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

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW = 100 kHz, VBW=300 kHz, Sweep time = Auto.
- c. 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	101050	2021/6/10	2022/6/9
2	Test Cable	EMCI	EMCCFD400-NM-NM-5000	151209	2021/12/17	2022/12/16
3	EMI Test Receiver	R&S	ESR	101854	2021/12/6	2022/12/5
4	Measurement Software	Farad	EZ EMC (Ver. 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	EMC02325	980217	2021/4/8	2022/4/7
2	Preamplifier	EMCI	EMC012645B	980222	2021/4/8	2022/4/7
3	Preamplifier	EMCI	EMC001340	980555	2021/4/8	2022/4/7
4	Test Cable	EMCI	EMC104-SM-1000	180809	2021/4/8	2022/4/7
5	Test Cable	EMCI	EMC104-SM-SM-3000	151205	2021/4/8	2022/4/7
6	Test Cable	EMCI	EMC-SM-SM-7000	180408	2021/4/8	2022/4/7
7	MXE EMI Receiver	Agilent	N9038A	MY56400087	2021/5/27	2022/5/26
8	Signal Analyzer	Agilent	N9010A	MY56480554	2021/8/25	2022/8/24
9	Loop Ant	Electro-Metrics	EMCI-LPA600	274	2021/6/1	2022/5/31
10	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	2021/6/2	2022/6/1
11	Horn Ant	Schwarzbeck	BBHA 9170	340	2021/7/9	2022/7/8
12	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-352	2021/8/11	2022/8/10
13	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0625	2021/8/11	2022/8/10
14	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A

For EKI-1361-CE, EKI-6233BN:

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC02325	980217	2022/4/6	2023/4/5
2	Test Cable	EMCI	EMC104-SM-1000	180809	2022/4/6	2023/4/5
3	Test Cable	EMCI	EMC104-SM-SM-2500	160413	2022/4/6	2023/4/5
4	Test Cable	EMCI	EMC-SM-SM-7000	180408	2022/4/6	2023/4/5
5	MXE EMI Receiver	Agilent	N9038A	MY56400087	2022/6/2	2023/6/1
6	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-352	2021/8/11	2022/8/10
7	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0625	2021/8/11	2022/8/10
8	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	2021/6/8	2022/6/7
2	POWER Supply	Twintex	TPS-6015	N/A	2021/5/13	2022/5/12

Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Power Meter	Anritsu	ML2487A	6K00004714	2021/8/15	2022/8/14
2	Power Sensor	Anritsu	MA2491A	034138	2021/8/15	2022/8/14
3	POWER Supply	Twintex	TPS-6015	N/A	2021/5/13	2022/5/12

Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2021/6/8	2022/6/7
2	POWER Supply	Twintex	TPS-6015	N/A	2021/5/13	2022/5/12

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	2021/6/8	2022/6/7
2	POWER Supply	Twintex	TPS-6015	N/A	2021/5/13	2022/5/12

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

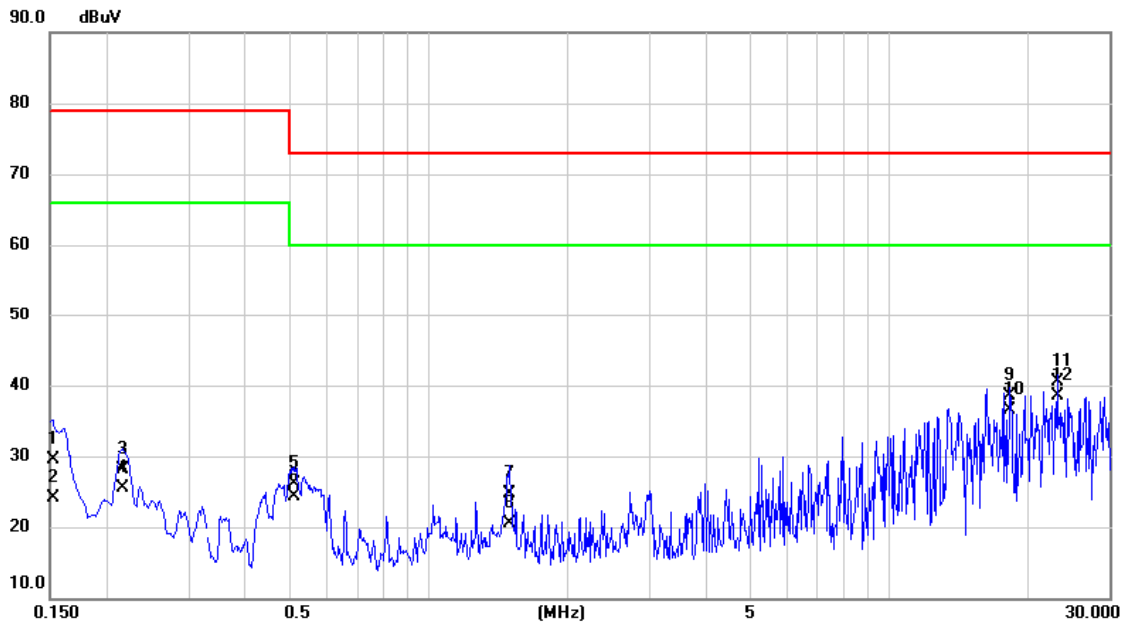
Please refer to document Appendix No.: TP-2112T115-FCCP-1 (APPENDIX-TEST PHOTOS).

11 EUT PHOTOS

Please refer to document Appendix No.: EP-2112T115-2 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2022/1/26
Test Frequency	-	Phase	Line

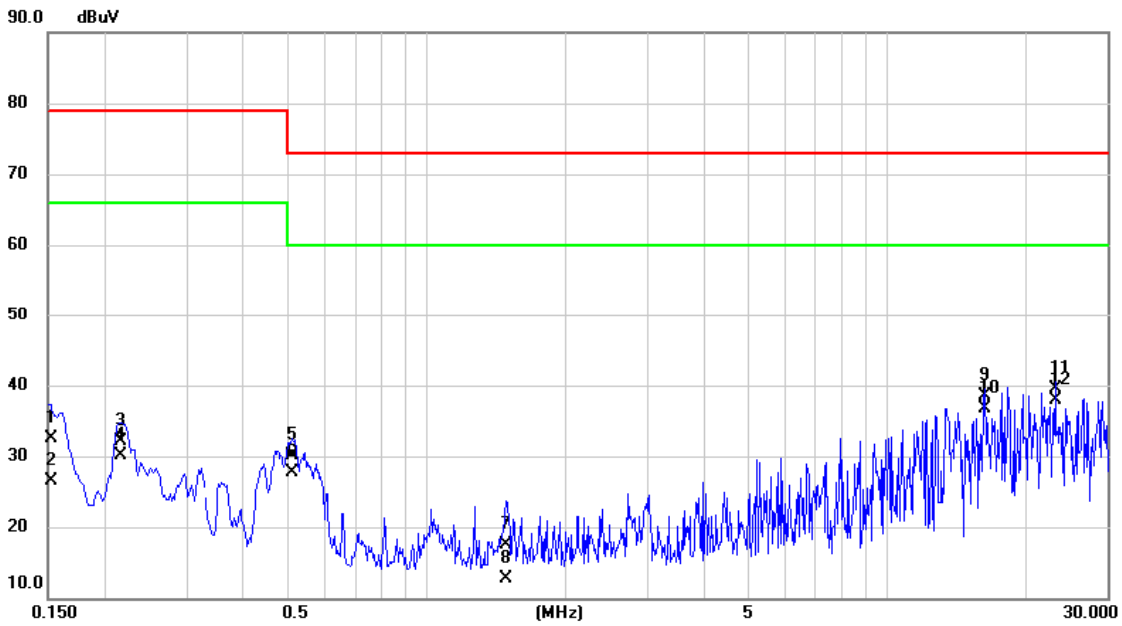


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1522	19.90	9.61	29.51	79.00	-49.49	QP	
2		0.1522	14.50	9.61	24.11	66.00	-41.89	AVG	
3		0.2152	18.40	9.62	28.02	79.00	-50.98	QP	
4		0.2152	15.90	9.62	25.52	66.00	-40.48	AVG	
5		0.5100	16.40	9.62	26.02	73.00	-46.98	QP	
6		0.5100	14.70	9.62	24.32	60.00	-35.68	AVG	
7		1.4955	15.00	9.66	24.66	73.00	-48.34	QP	
8		1.4955	10.80	9.66	20.46	60.00	-39.54	AVG	
9		18.2422	28.60	9.90	38.50	73.00	-34.50	QP	
10		18.2422	26.70	9.90	36.60	60.00	-23.40	AVG	
11		23.1292	30.60	9.96	40.56	73.00	-32.44	QP	
12	*	23.1292	28.50	9.96	38.46	60.00	-21.54	AVG	

REMARKS:

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

Test Mode	Normal	Tested Date	2022/1/26
Test Frequency	-	Phase	Neutral



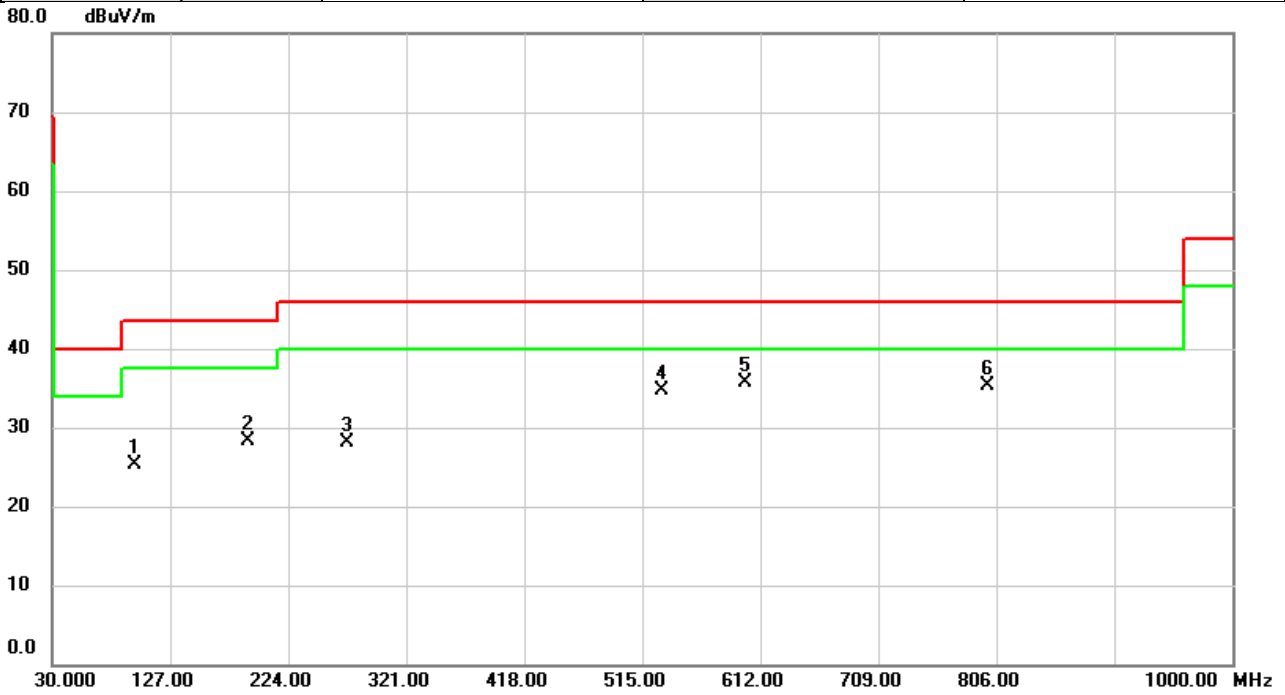
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1522	22.80	9.62	32.42	79.00	-46.58	QP	
2		0.1522	16.90	9.62	26.52	66.00	-39.48	AVG	
3		0.2153	22.50	9.62	32.12	79.00	-46.88	QP	
4		0.2153	20.50	9.62	30.12	66.00	-35.88	AVG	
5		0.5122	20.50	9.63	30.13	73.00	-42.87	QP	
6		0.5122	18.10	9.63	27.73	60.00	-32.27	AVG	
7		1.4820	7.90	9.66	17.56	73.00	-55.44	QP	
8		1.4820	3.00	9.66	12.66	60.00	-47.34	AVG	
9		16.2285	28.70	9.87	38.57	73.00	-34.43	QP	
10		16.2285	26.80	9.87	36.67	60.00	-23.33	AVG	
11		23.1293	29.50	9.94	39.44	73.00	-33.56	QP	
12	*	23.1293	28.00	9.94	37.94	60.00	-22.06	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 802.11b	Test Date	2022/3/24
Test Frequency	2462MHz	Polarization	Vertical
Temp	22°C	Hum.	65%

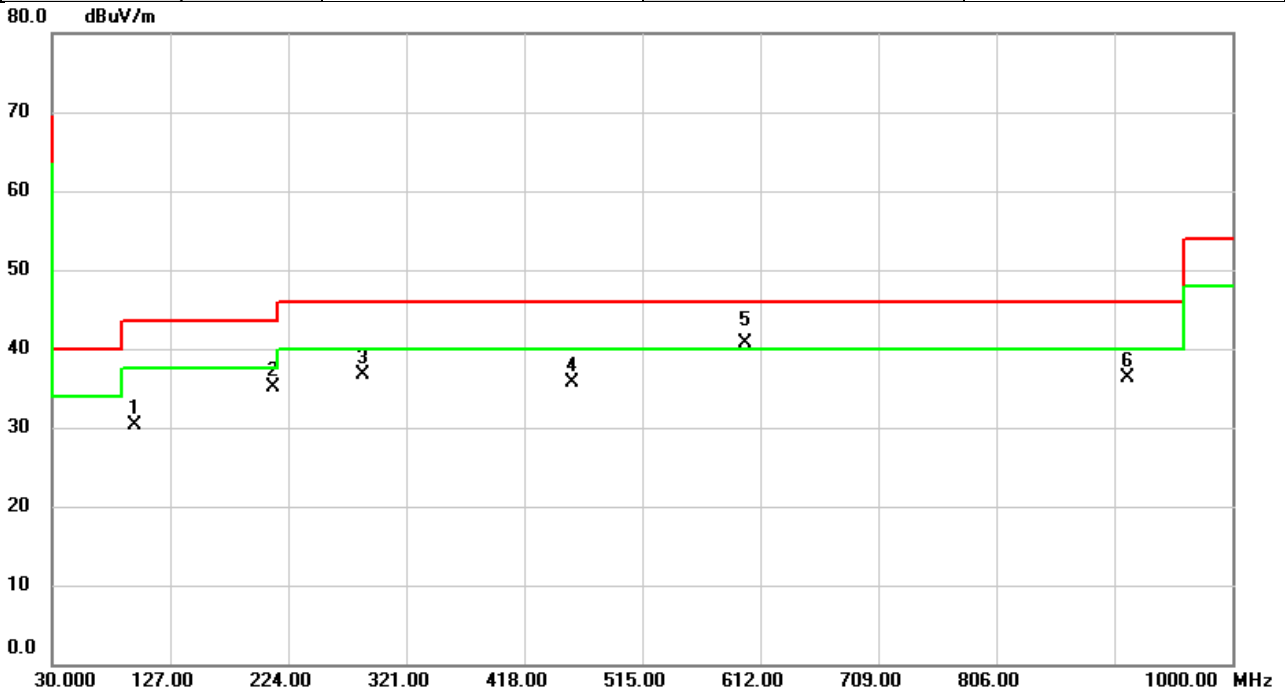


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		98.4497	39.22	-13.95	25.27	43.50	-18.23	peak	
2		191.3110	40.04	-11.75	28.29	43.50	-15.21	peak	
3		272.9527	37.15	-9.07	28.08	46.00	-17.92	peak	
4		531.6517	37.81	-3.02	34.79	46.00	-11.21	peak	
5	*	600.0043	36.80	-1.06	35.74	46.00	-10.26	peak	
6		798.5957	33.37	1.93	35.30	46.00	-10.70	peak	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/3/24
Test Frequency	2462MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



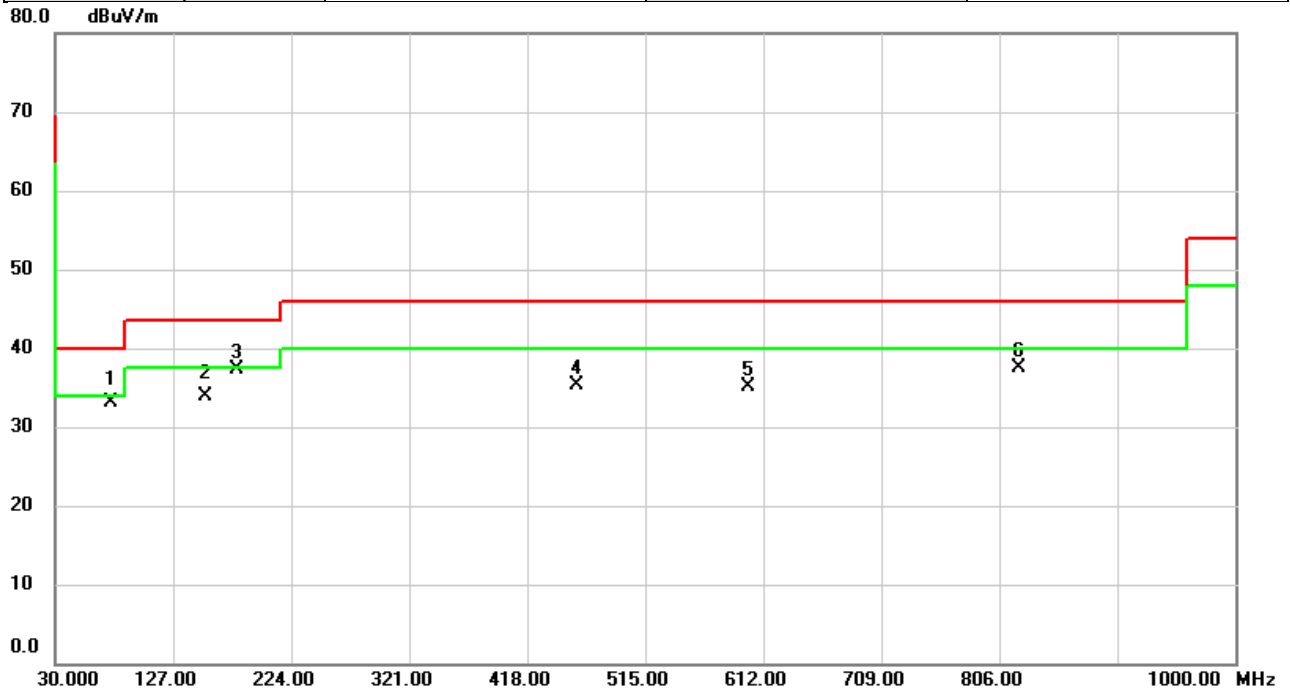
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		98.4496	44.32	-13.95	30.37	43.50	-13.13	peak	
2		211.5516	47.14	-12.05	35.09	43.50	-8.41	peak	
3		285.6596	45.23	-8.60	36.63	46.00	-9.37	peak	
4		457.1556	39.92	-4.27	35.65	46.00	-10.35	peak	
5	*	600.0043	41.68	-1.06	40.62	46.00	-5.38	QP	
6		914.2196	32.67	3.67	36.34	46.00	-9.66	peak	

REMARKS:

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

For EKI-1361-CE:

Test Mode	IEEE 802.11b	Test Date	2022/6/6
Test Frequency	2462MHz	Polarization	Vertical
Temp	22°C	Hum.	51%

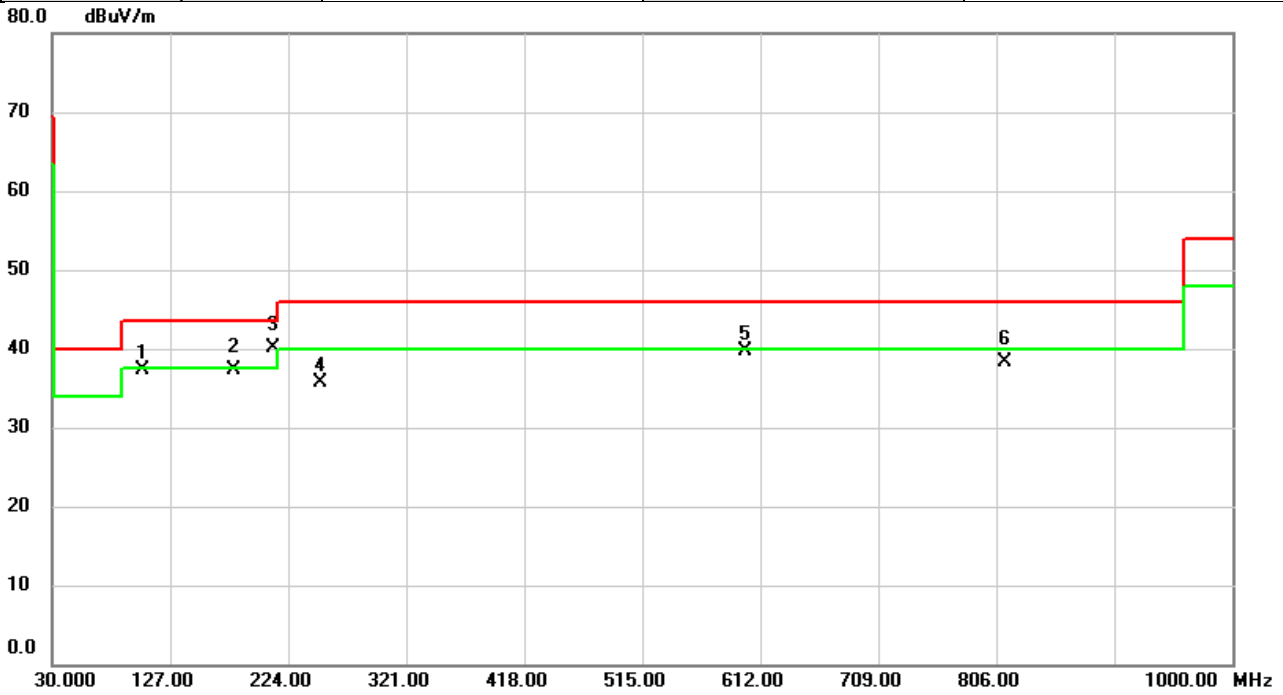


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		75.9457	45.64	-12.58	33.06	40.00	-6.94	QP	
2		153.4487	43.09	-9.24	33.85	43.50	-9.65	QP	
3	*	178.9920	47.70	-10.34	37.36	43.50	-6.14	peak	
4		458.4490	39.15	-3.93	35.22	46.00	-10.78	peak	
5		600.0043	36.41	-1.24	35.17	46.00	-10.83	peak	
6		821.6493	35.06	2.38	37.44	46.00	-8.56	peak	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/6/6
Test Frequency	2462MHz	Polarization	Horizontal
Temp	22°C	Hum.	51%



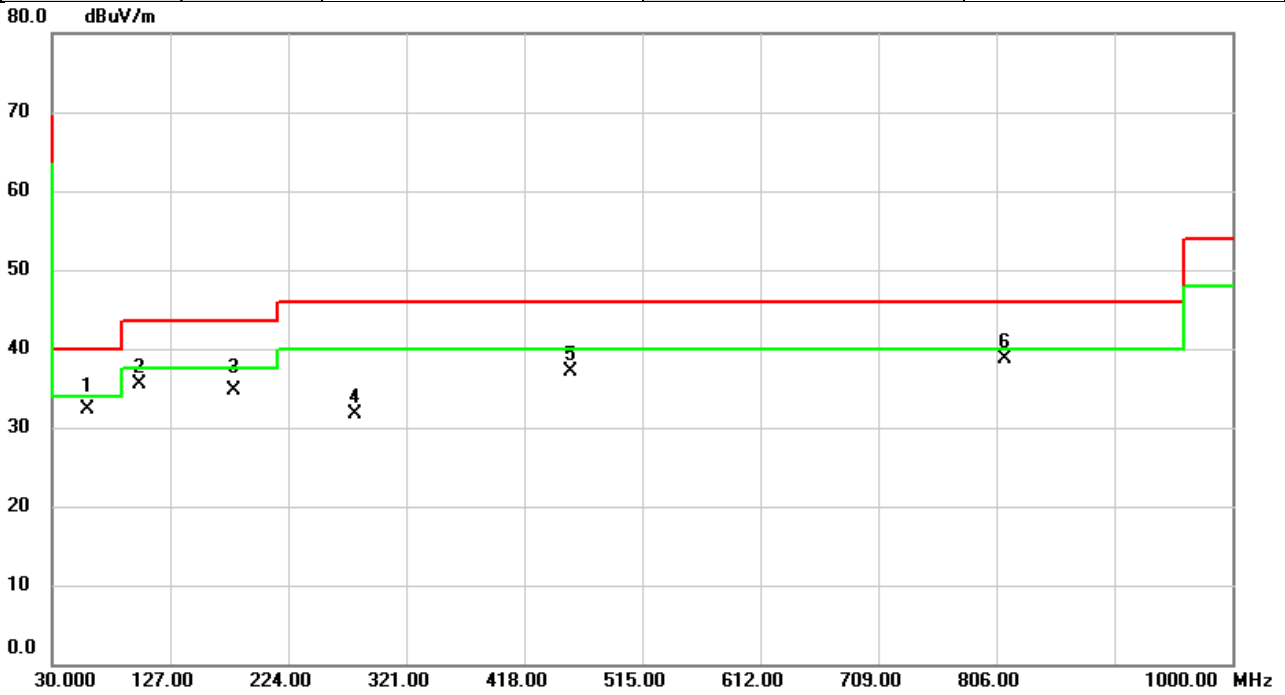
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		104.7870	50.45	-13.20	37.25	43.50	-6.25	peak	
2		178.9920	47.71	-10.34	37.37	43.50	-6.13	QP	
3	*	211.5193	52.13	-12.00	40.13	43.50	-3.37	QP	
4		249.9960	45.86	-10.20	35.66	46.00	-10.34	peak	
5		600.0043	41.01	-1.24	39.77	46.00	-6.23	peak	
6		813.5660	36.07	2.24	38.31	46.00	-7.69	QP	

REMARKS:

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

For EKI-6233BN:

Test Mode	IEEE 802.11b	Test Date	2022/6/6
Test Frequency	2462MHz	Polarization	Vertical
Temp	22°C	Hum.	51%

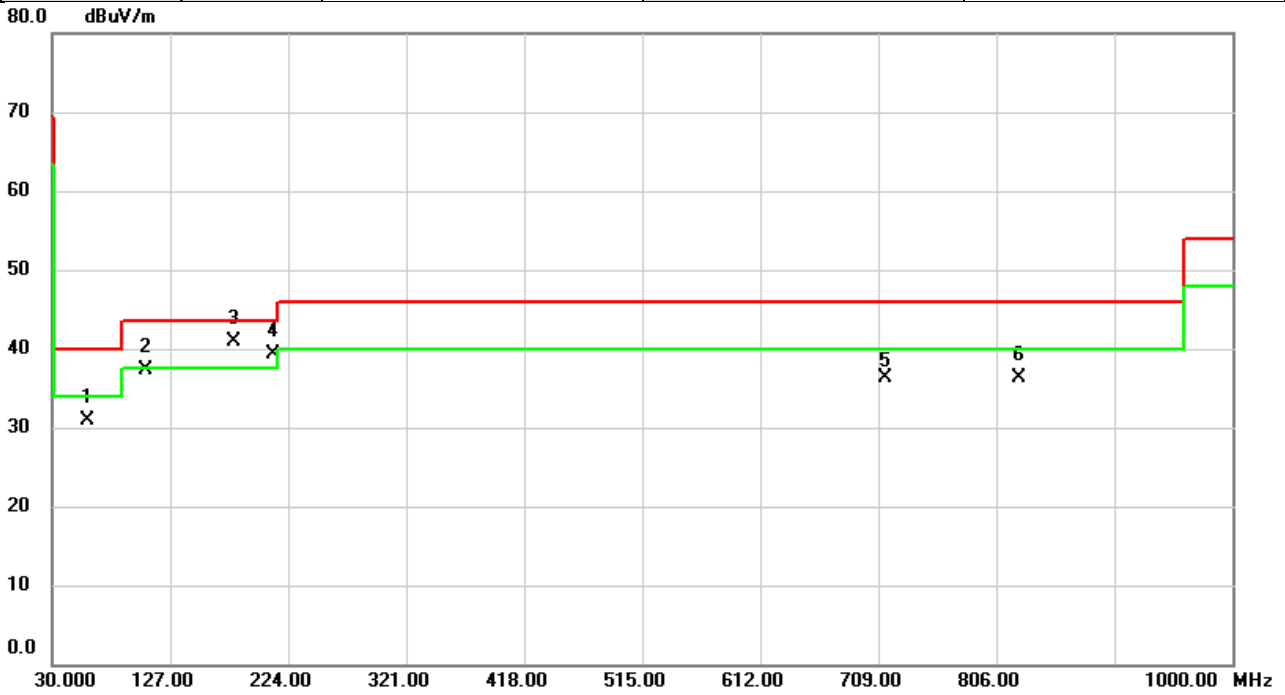


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		58.7443	41.89	-9.60	32.29	40.00	-7.71	QP	
2		101.9093	49.30	-13.74	35.56	43.50	-7.94	peak	
3		178.8950	44.99	-10.33	34.66	43.50	-8.84	QP	
4		279.3546	40.37	-8.74	31.63	46.00	-14.37	peak	
5		456.5413	41.08	-3.97	37.11	46.00	-8.89	peak	
6	*	813.5337	36.38	2.24	38.62	46.00	-7.38	peak	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/6/6
Test Frequency	2462MHz	Polarization	Horizontal
Temp	22°C	Hum.	51%



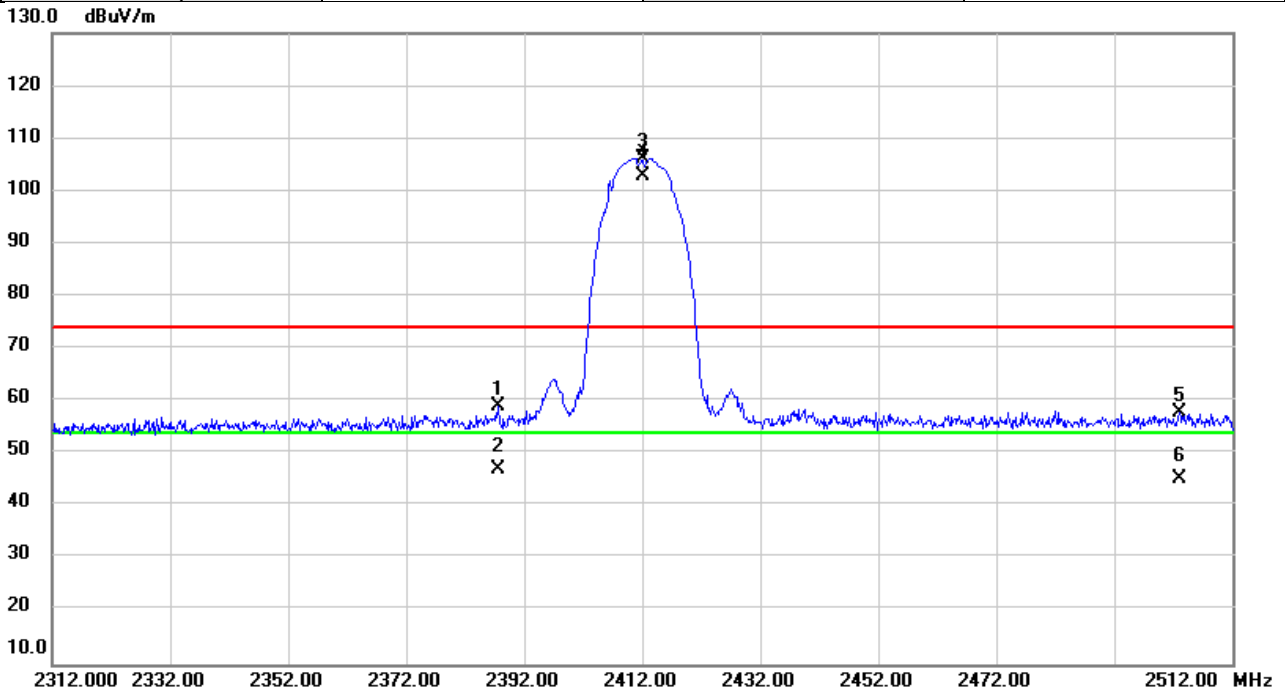
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		58.7443	40.56	-9.60	30.96	40.00	-9.04	QP	
2		106.7593	50.21	-12.83	37.38	43.50	-6.12	QP	
3	*	178.8950	51.33	-10.33	41.00	43.50	-2.50	QP	
4	!	211.5193	51.24	-12.00	39.24	43.50	-4.26	QP	
5		714.3350	35.83	0.51	36.34	46.00	-9.66	peak	
6		824.4300	33.88	2.42	36.30	46.00	-9.70	QP	

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	2022/2/8
Test Frequency	2412MHz	Polarization	Horizontal
Temp	20°C	Hum.	62%

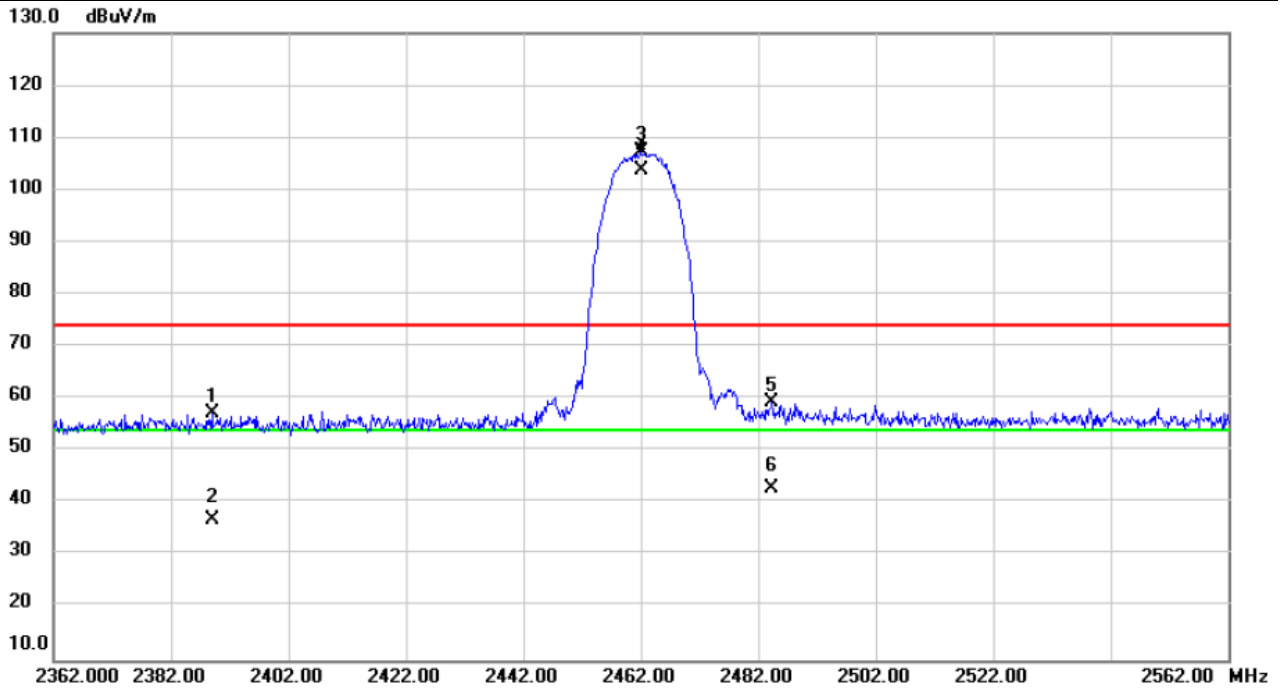


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2387.693	27.79	31.21	59.00	74.00	-15.00	peak	
2		2387.693	15.87	31.21	47.08	54.00	-6.92	AVG	
3	X	2412.000	75.00	31.28	106.28	74.00	32.28	peak	NoLimit
4	*	2412.000	71.53	31.28	102.81	54.00	48.81	AVG	NoLimit
5		2503.107	26.16	31.58	57.74	74.00	-16.26	peak	
6		2503.107	13.60	31.58	45.18	54.00	-8.82	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/2/8
Test Frequency	2462MHz	Polarization	Horizontal
Temp	20°C	Hum.	62%

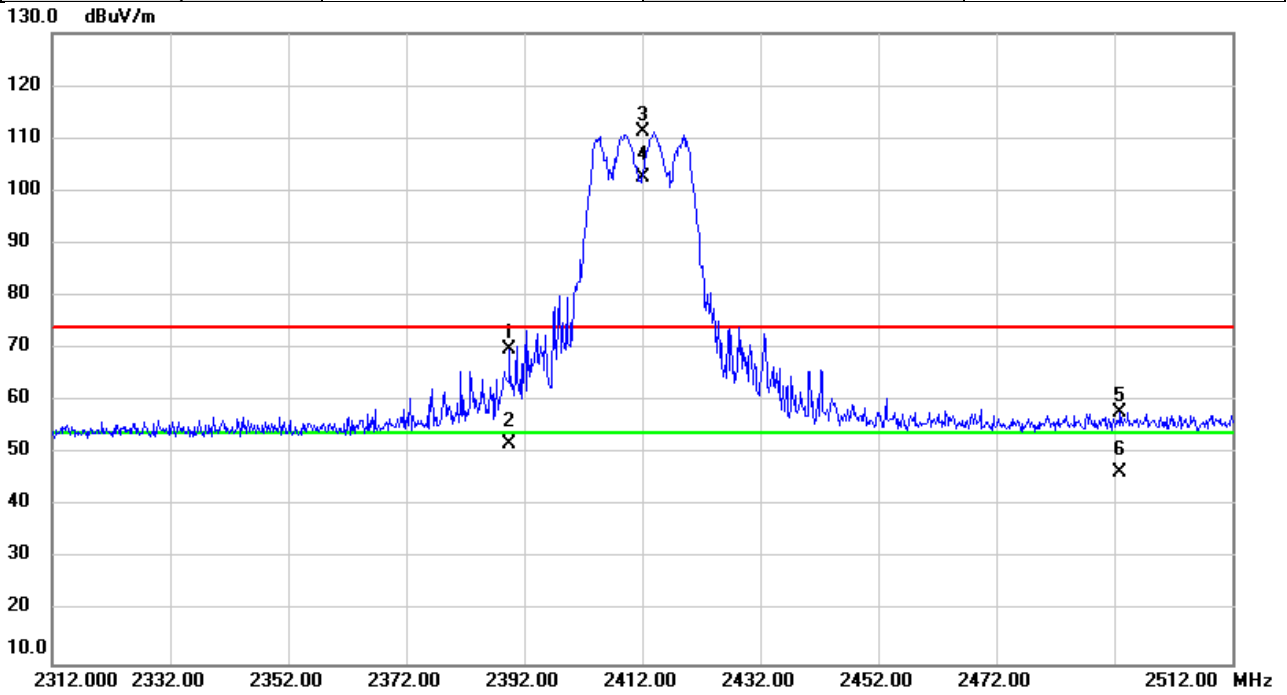


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2389.060	25.98	31.21	57.19	74.00	-16.81	peak	
2		2389.060	5.64	31.21	36.85	54.00	-17.15	AVG	
3	X	2462.000	75.77	31.44	107.21	74.00	33.21	peak	NoLimit
4	*	2462.000	72.23	31.44	103.67	54.00	49.67	AVG	NoLimit
5		2484.353	27.79	31.52	59.31	74.00	-14.69	peak	
6		2484.353	11.32	31.52	42.84	54.00	-11.16	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/2/8
Test Frequency	2412MHz	Polarization	Horizontal
Temp	20°C	Hum.	62%

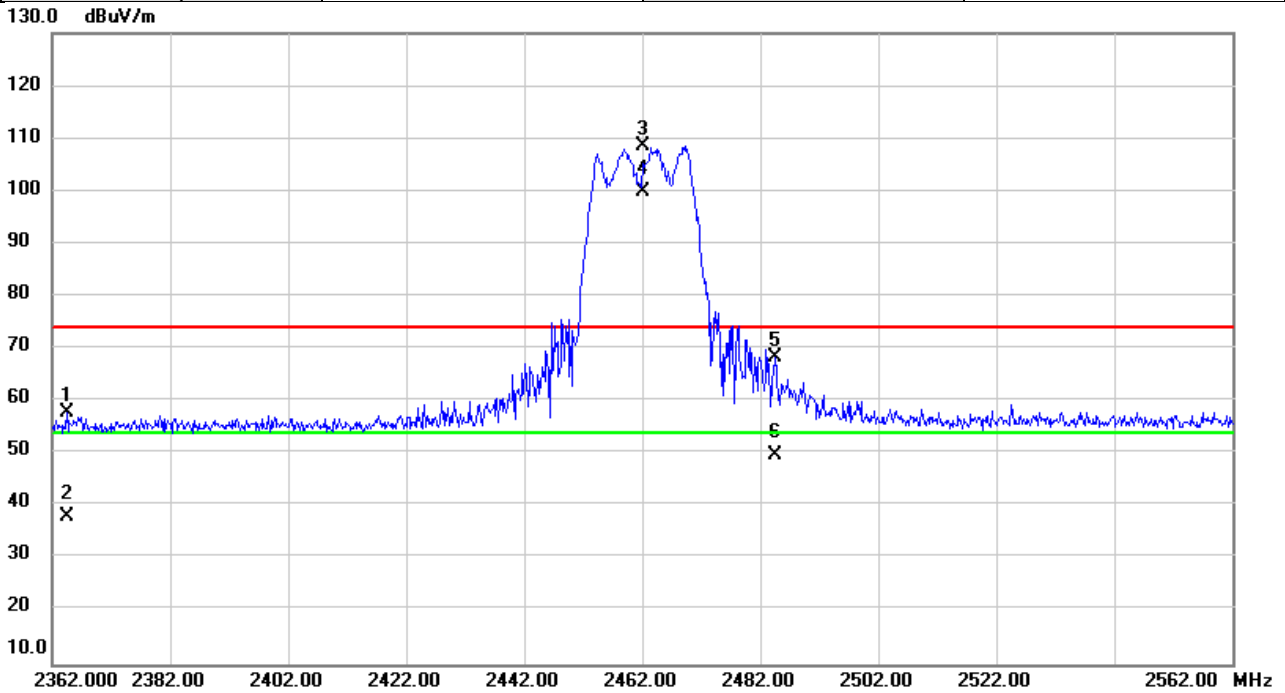


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2389.580	38.60	31.21	69.81	74.00	-4.19	peak	
2		2389.580	20.69	31.21	51.90	54.00	-2.10	AVG	
3	X	2412.000	80.05	31.28	111.33	74.00	37.33	peak	NoLimit
4	*	2412.000	71.17	31.28	102.45	54.00	48.45	AVG	NoLimit
5		2493.053	26.39	31.55	57.94	74.00	-16.06	peak	
6		2493.053	14.77	31.55	46.32	54.00	-7.68	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/2/8
Test Frequency	2462MHz	Polarization	Horizontal
Temp	20°C	Hum.	62%

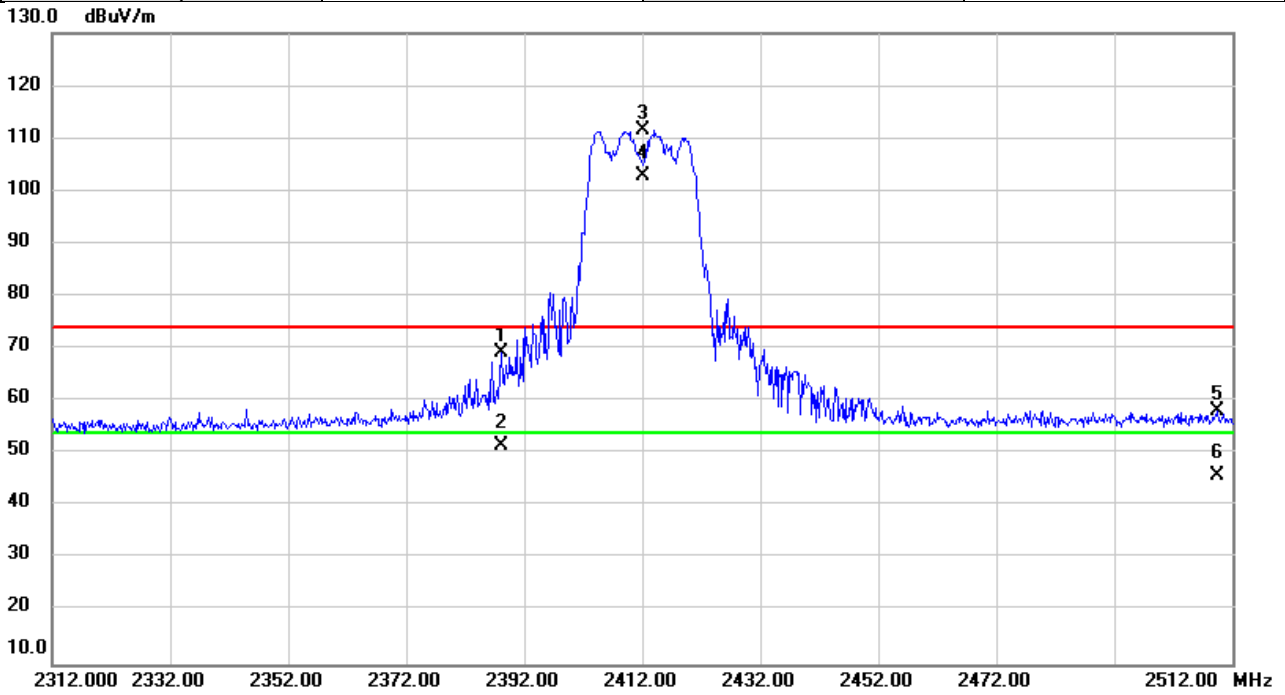


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2364.427	26.60	31.13	57.73	74.00	-16.27	peak	
2		2364.427	6.87	31.13	38.00	54.00	-16.00	AVG	
3	X	2462.000	77.03	31.44	108.47	74.00	34.47	peak	NoLimit
4	*	2462.000	68.46	31.44	99.90	54.00	45.90	AVG	NoLimit
5		2484.540	36.90	31.52	68.42	74.00	-5.58	peak	
6		2484.540	18.32	31.52	49.84	54.00	-4.16	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/2/8
Test Frequency	2412MHz	Polarization	Horizontal
Temp	20°C	Hum.	62%

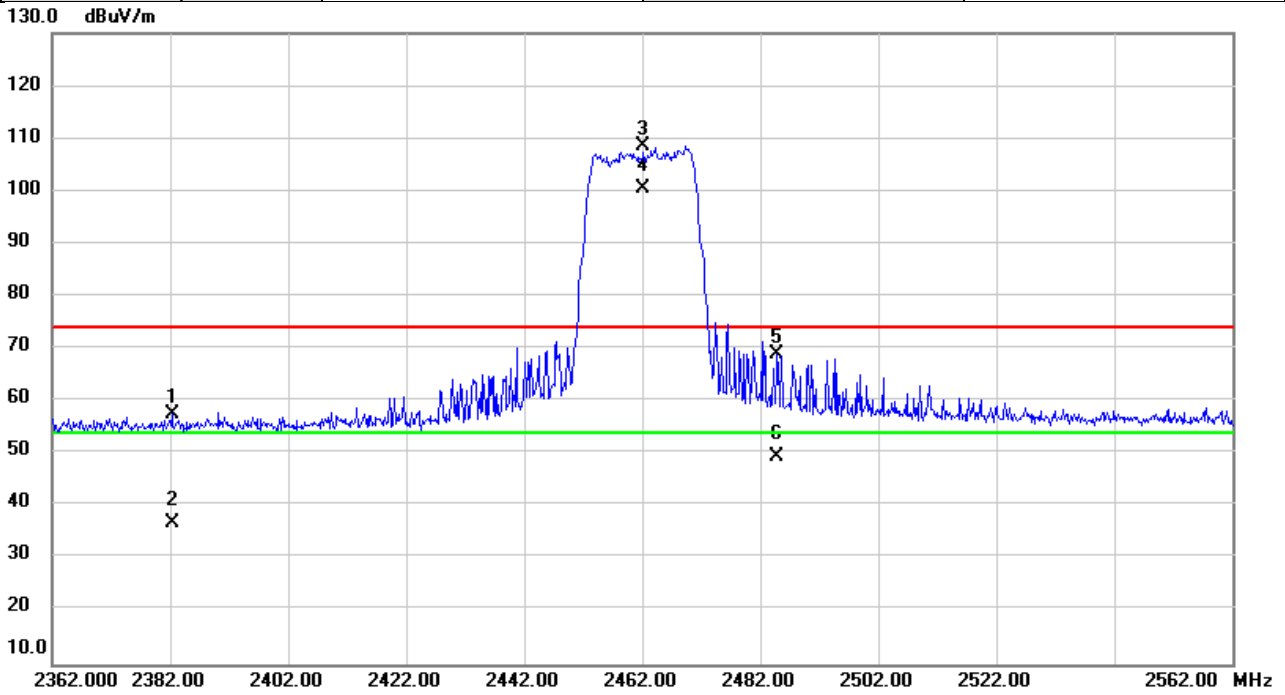


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2388.253	37.94	31.21	69.15	74.00	-4.85	peak	
2		2388.253	20.45	31.21	51.66	54.00	-2.34	AVG	
3	X	2412.000	80.25	31.28	111.53	74.00	37.53	peak	NoLimit
4	*	2412.000	71.60	31.28	102.88	54.00	48.88	AVG	NoLimit
5		2509.393	26.61	31.60	58.21	74.00	-15.79	peak	
6		2509.393	14.17	31.60	45.77	54.00	-8.23	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/2/8
Test Frequency	2462MHz	Polarization	Horizontal
Temp	20°C	Hum.	62%

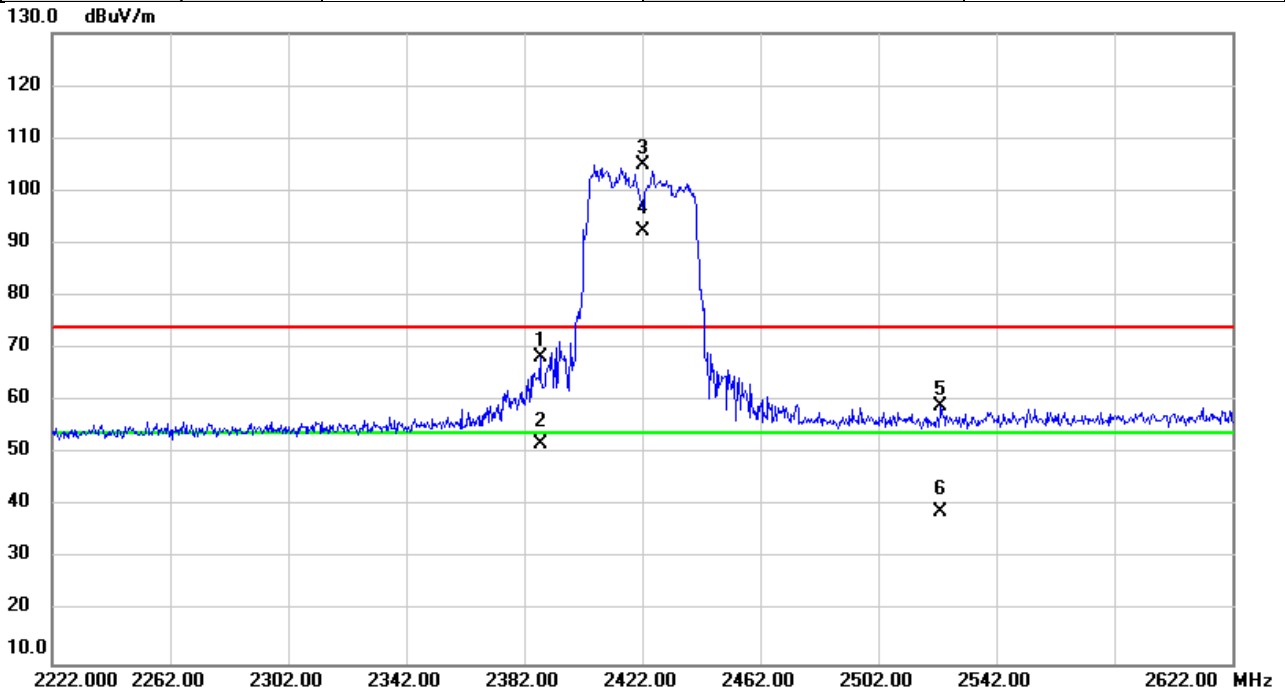


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2382.347	26.34	31.18	57.52	74.00	-16.48	peak	
2		2382.347	5.82	31.18	37.00	54.00	-17.00	AVG	
3	X	2462.000	77.10	31.44	108.54	74.00	34.54	peak	NoLimit
4	*	2462.000	68.87	31.44	100.31	54.00	46.31	AVG	NoLimit
5		2484.833	37.34	31.52	68.86	74.00	-5.14	peak	
6		2484.833	18.07	31.52	49.59	54.00	-4.41	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/2/8
Test Frequency	2422MHz	Polarization	Horizontal
Temp	20°C	Hum.	62%

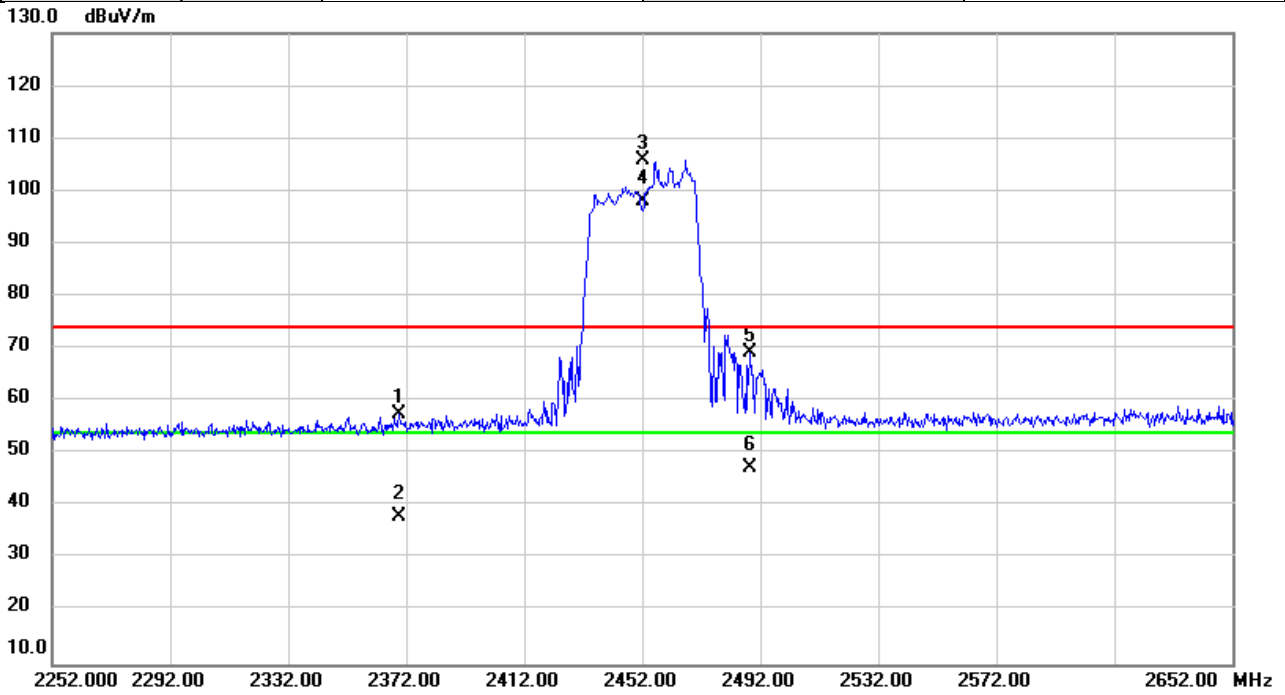


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2387.547	37.11	31.21	68.32	74.00	-5.68	peak	
2		2387.547	20.68	31.21	51.89	54.00	-2.11	AVG	
3	X	2422.000	73.76	31.32	105.08	74.00	31.08	peak	NoLimit
4	*	2422.000	60.99	31.32	92.31	54.00	38.31	AVG	NoLimit
5		2523.307	27.31	31.64	58.95	74.00	-15.05	peak	
6		2523.307	7.24	31.64	38.88	54.00	-15.12	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/2/8
Test Frequency	2452MHz	Polarization	Horizontal
Temp	20°C	Hum.	62%

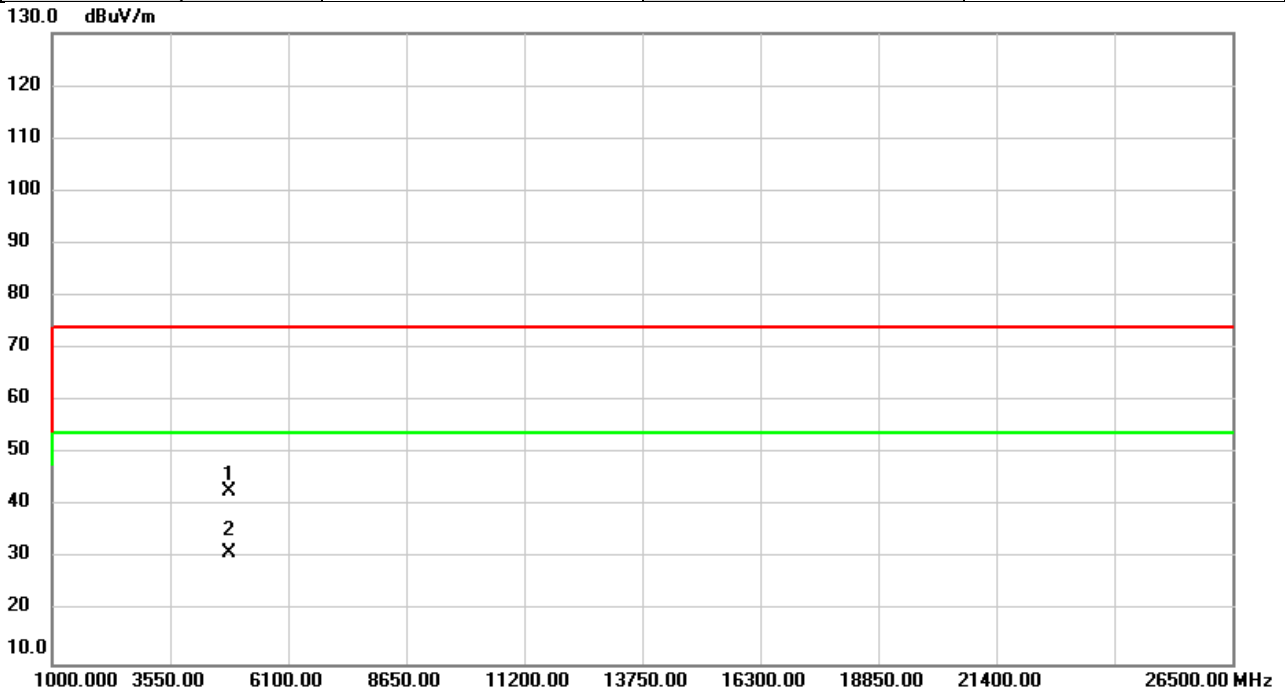


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2369.800	26.29	31.14	57.43	74.00	-16.57	peak	
2		2369.800	7.01	31.14	38.15	54.00	-15.85	AVG	
3	X	2452.000	74.55	31.42	105.97	74.00	31.97	peak	NoLimit
4	*	2452.000	66.53	31.42	97.95	54.00	43.95	AVG	NoLimit
5		2488.640	37.78	31.53	69.31	74.00	-4.69	peak	
6		2488.640	15.75	31.53	47.28	54.00	-6.72	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/2/9
Test Frequency	2412MHz	Polarization	Vertical
Temp	20°C	Hum.	61%

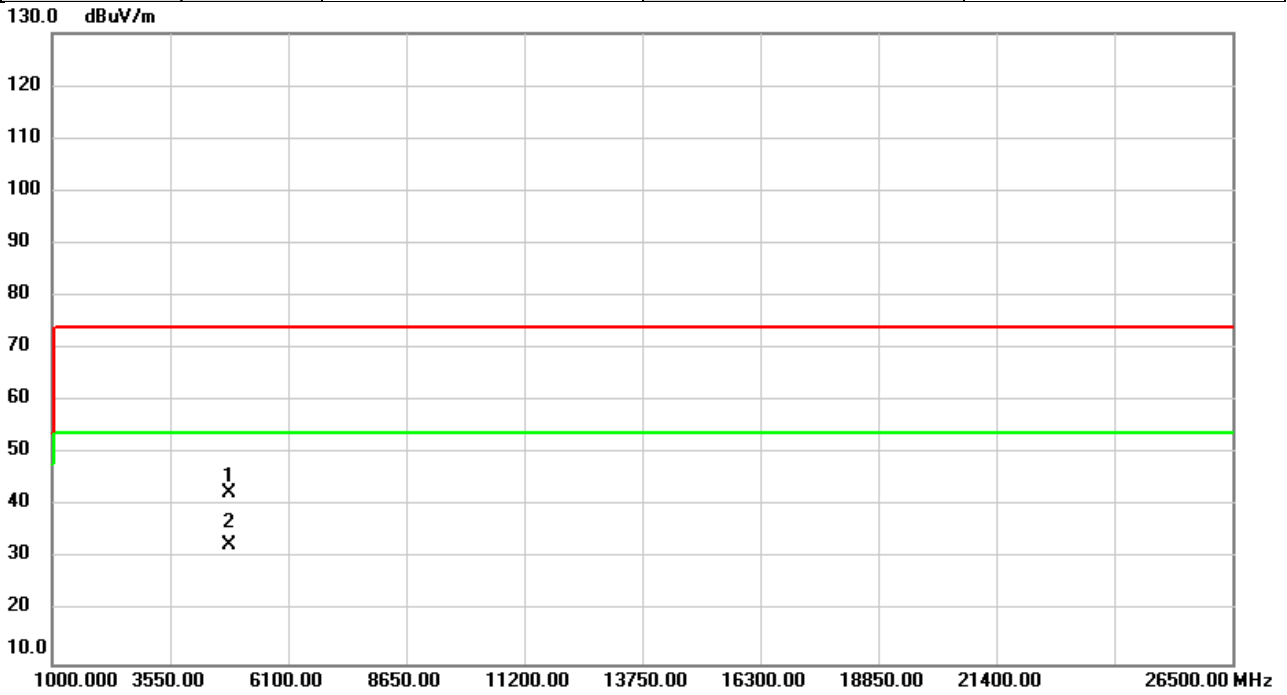


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	52.71	-9.83	42.88	74.00	-31.12	peak	
2	*	4824.000	40.97	-9.83	31.14	54.00	-22.86	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/2/9
Test Frequency	2412MHz	Polarization	Horizontal
Temp	20°C	Hum.	61%

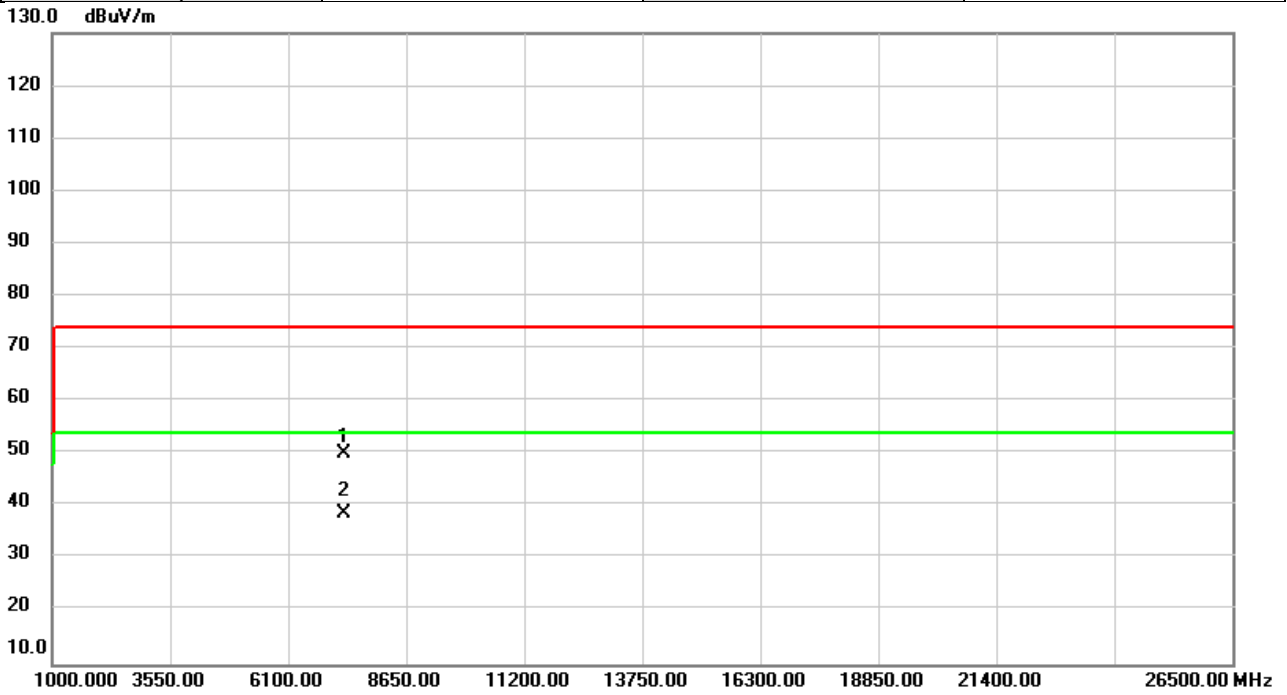


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	52.50	-9.83	42.67	74.00	-31.33	peak	
2	*	4824.000	42.58	-9.83	32.75	54.00	-21.25	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/2/9
Test Frequency	2437MHz	Polarization	Vertical
Temp	20°C	Hum.	61%

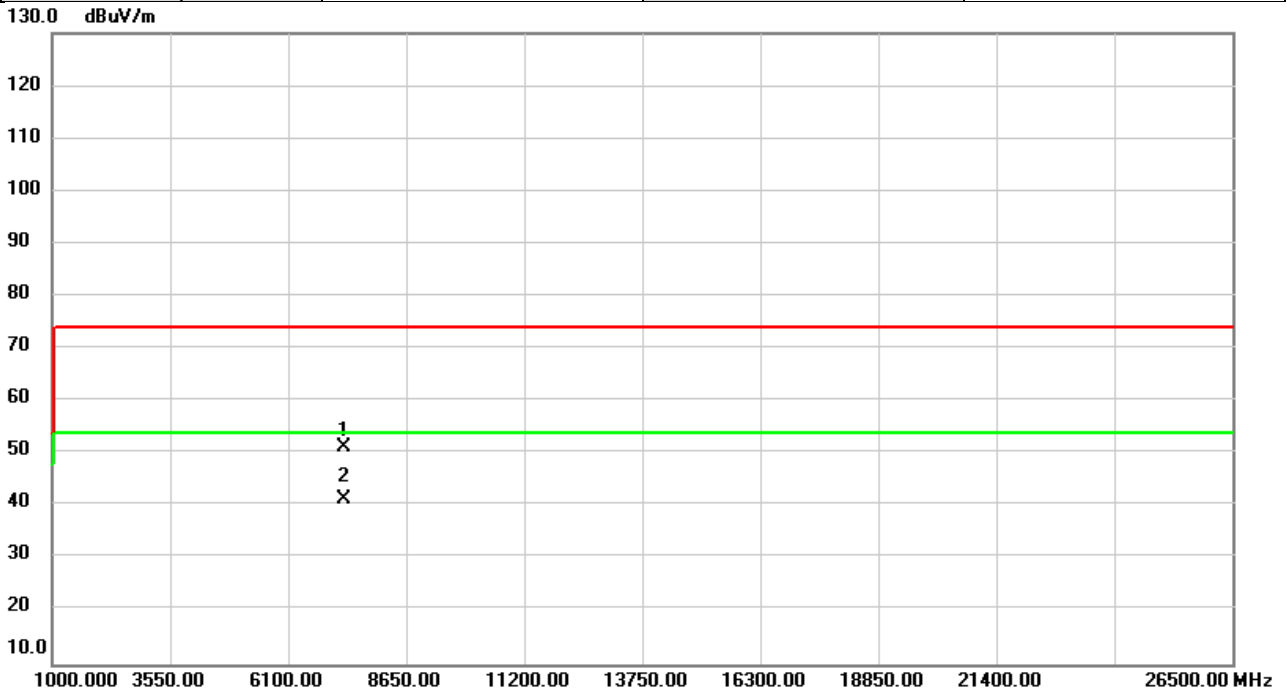


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7311.000	52.88	-2.80	50.08	74.00	-23.92	peak	
2	*	7311.000	41.56	-2.80	38.76	54.00	-15.24	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/2/9
Test Frequency	2437MHz	Polarization	Horizontal
Temp	20°C	Hum.	61%

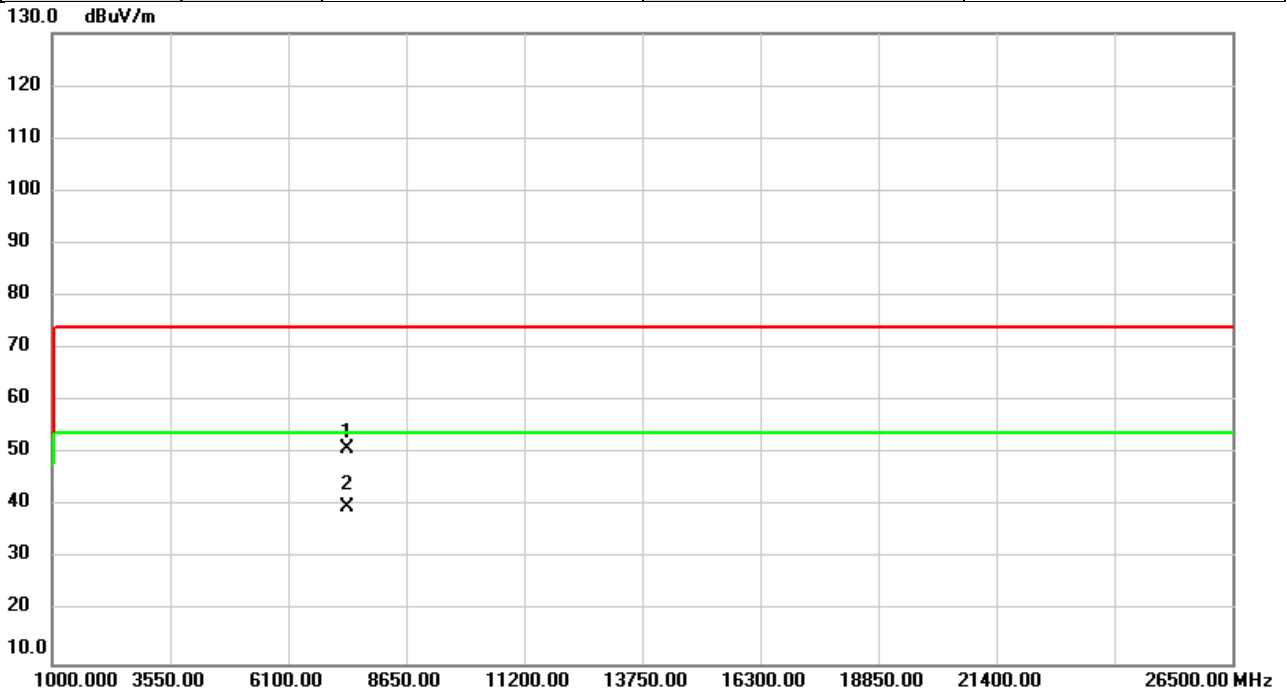


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7311.000	54.05	-2.80	51.25	74.00	-22.75	peak	
2	*	7311.000	44.04	-2.80	41.24	54.00	-12.76	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/2/9
Test Frequency	2462MHz	Polarization	Vertical
Temp	20°C	Hum.	61%

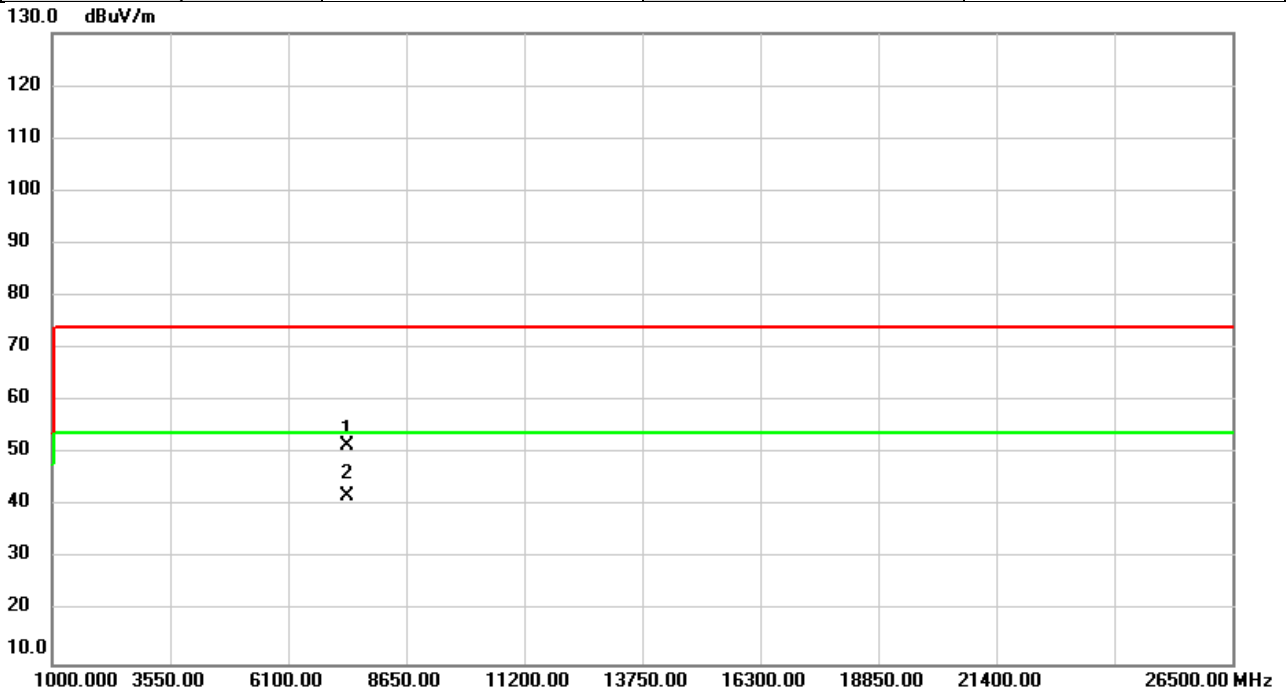


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7386.000	53.51	-2.44	51.07	74.00	-22.93	peak	
2	*	7386.000	42.27	-2.44	39.83	54.00	-14.17	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/2/9
Test Frequency	2462MHz	Polarization	Horizontal
Temp	20°C	Hum.	61%

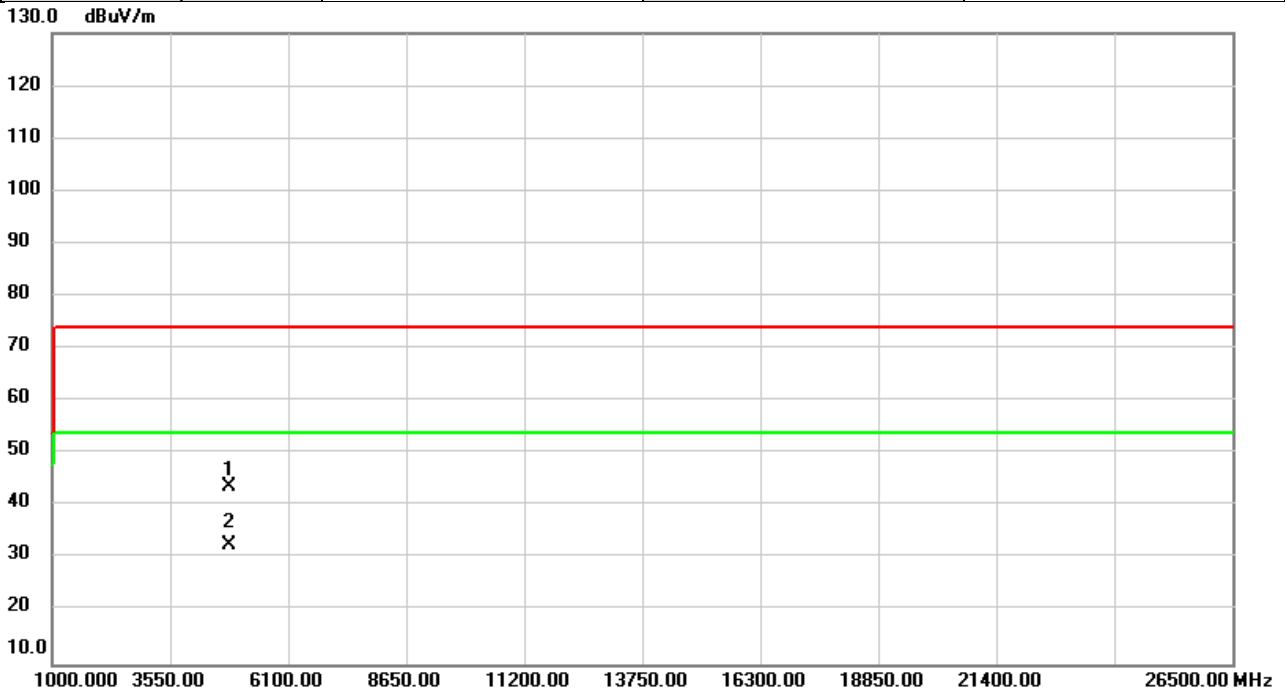


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7386.000	54.13	-2.44	51.69	74.00	-22.31	peak	
2	*	7386.000	44.41	-2.44	41.97	54.00	-12.03	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/2/9
Test Frequency	2412MHz	Polarization	Vertical
Temp	20°C	Hum.	61%

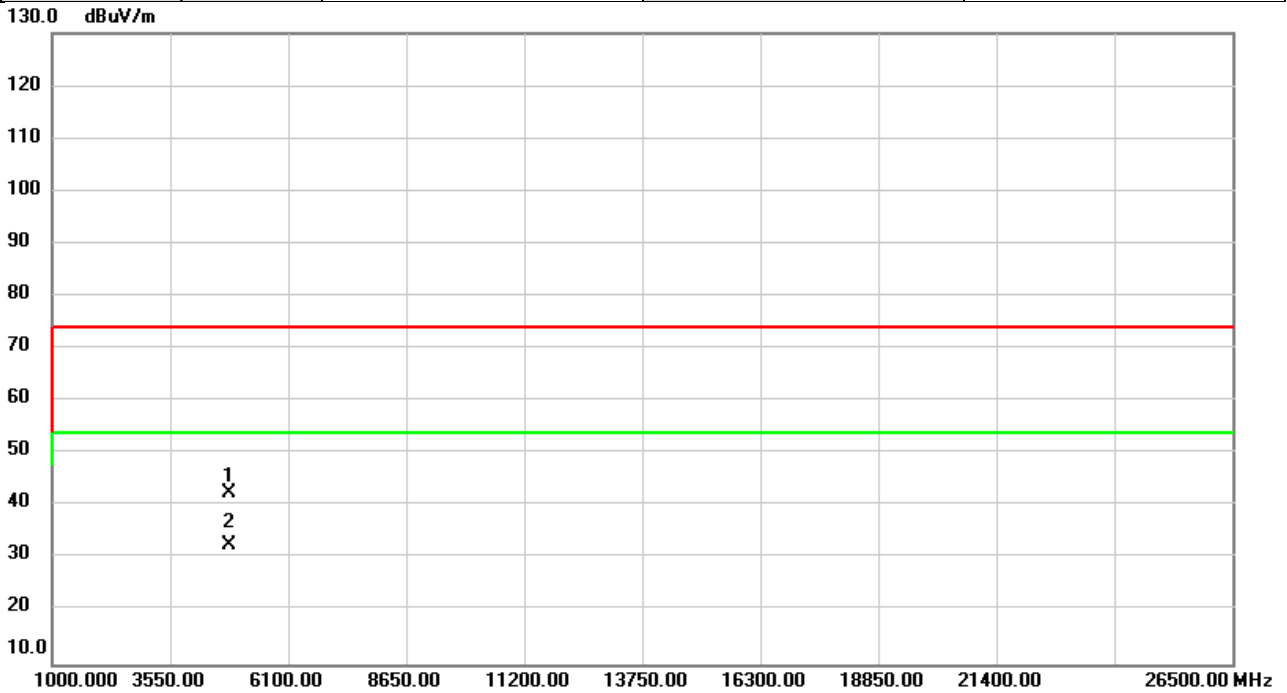


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	53.69	-9.83	43.86	74.00	-30.14	peak	
2	*	4824.000	42.50	-9.83	32.67	54.00	-21.33	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/2/9
Test Frequency	2412MHz	Polarization	Horizontal
Temp	20°C	Hum.	61%

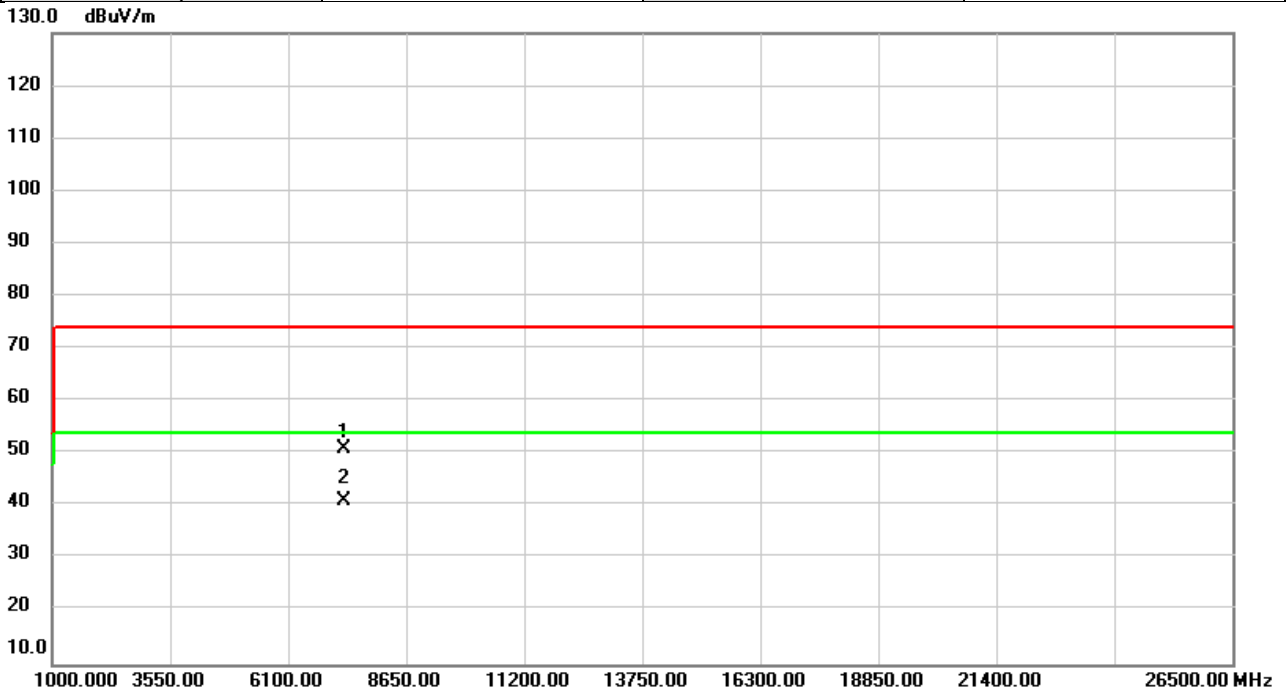


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	52.48	-9.83	42.65	74.00	-31.35	peak	
2	*	4824.000	42.41	-9.83	32.58	54.00	-21.42	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/2/9
Test Frequency	2437MHz	Polarization	Vertical
Temp	20°C	Hum.	61%

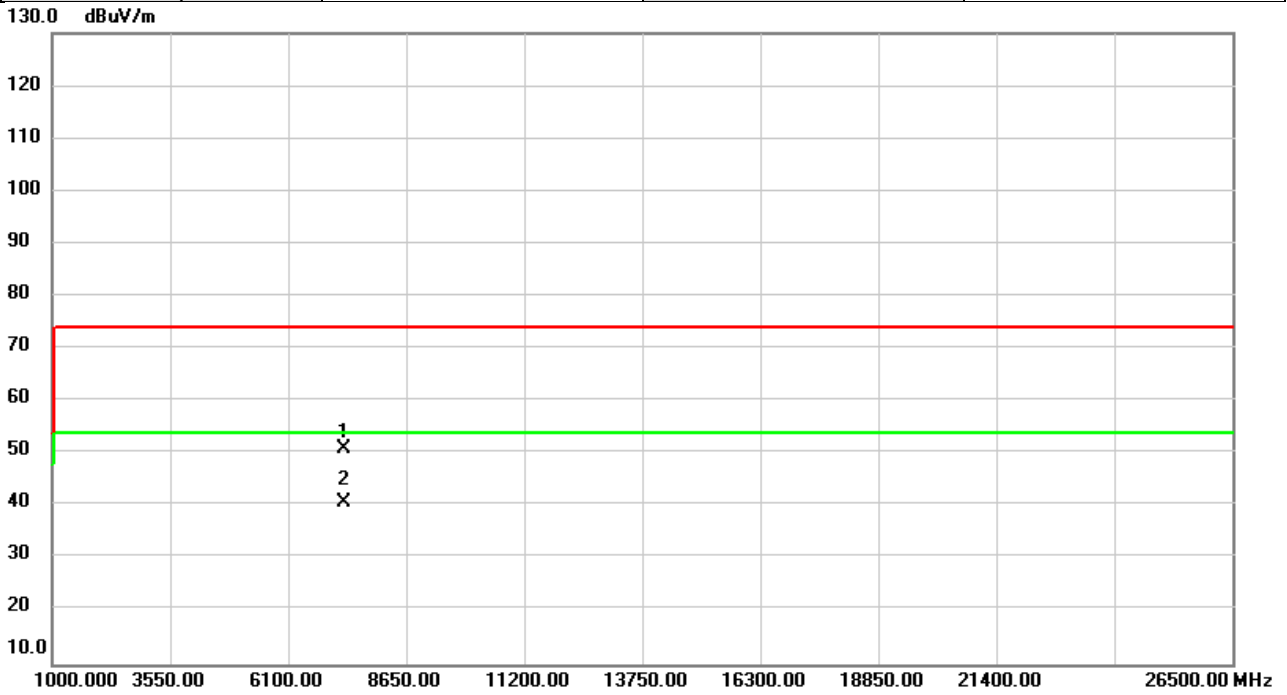


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7311.000	53.81	-2.80	51.01	74.00	-22.99	peak	
2	*	7311.000	43.89	-2.80	41.09	54.00	-12.91	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/2/9
Test Frequency	2437MHz	Polarization	Horizontal
Temp	20°C	Hum.	61%

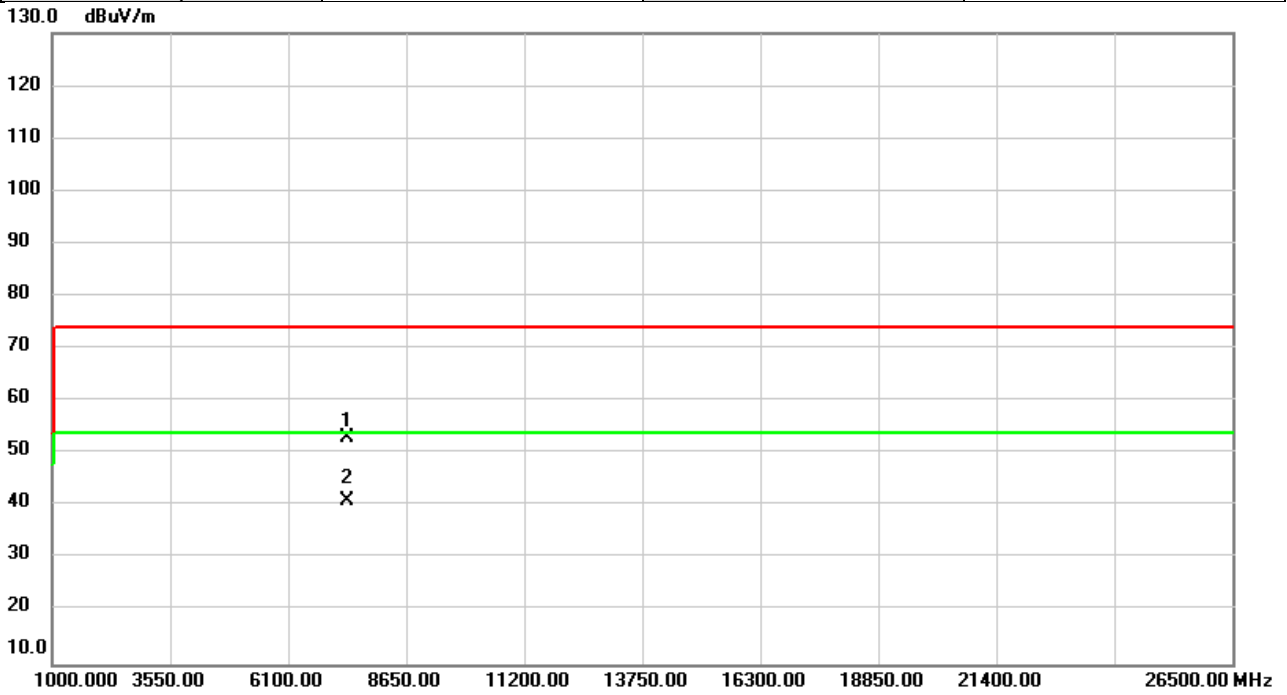


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7311.000	53.86	-2.80	51.06	74.00	-22.94	peak	
2	*	7311.000	43.40	-2.80	40.60	54.00	-13.40	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/2/9
Test Frequency	2462MHz	Polarization	Vertical
Temp	20°C	Hum.	61%

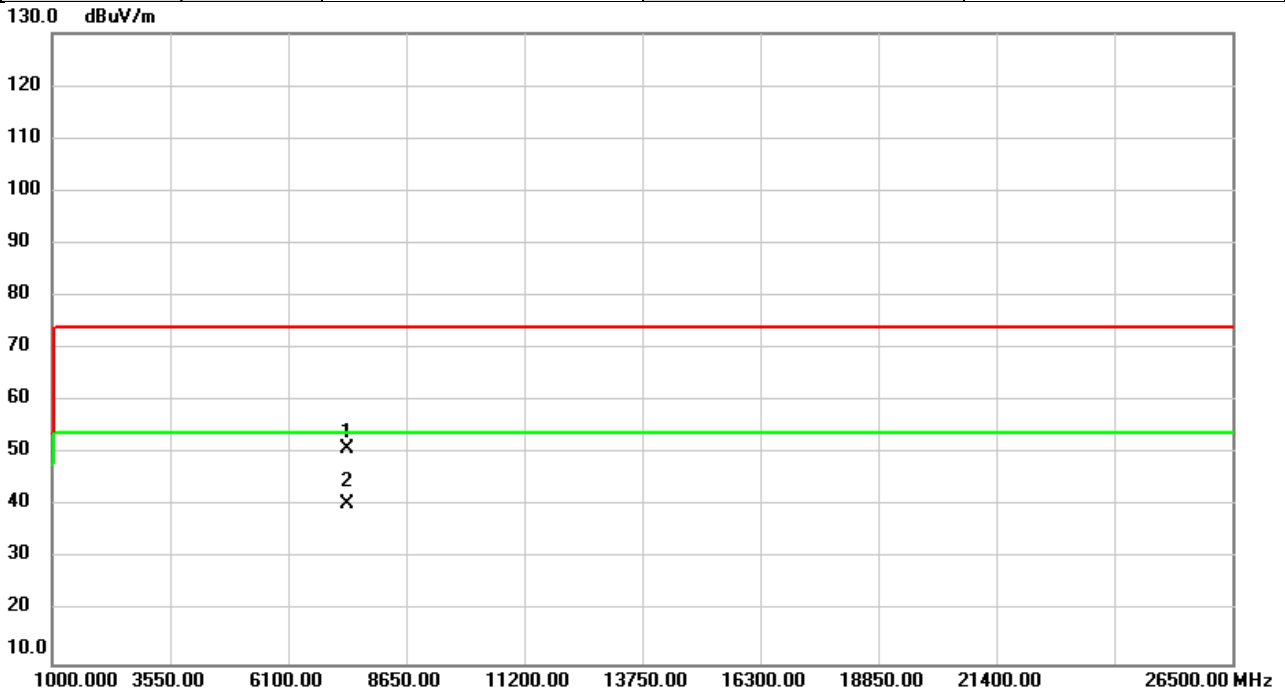


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7386.000	55.43	-2.44	52.99	74.00	-21.01	peak	
2	*	7386.000	43.43	-2.44	40.99	54.00	-13.01	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/2/9
Test Frequency	2462MHz	Polarization	Horizontal
Temp	20°C	Hum.	61%

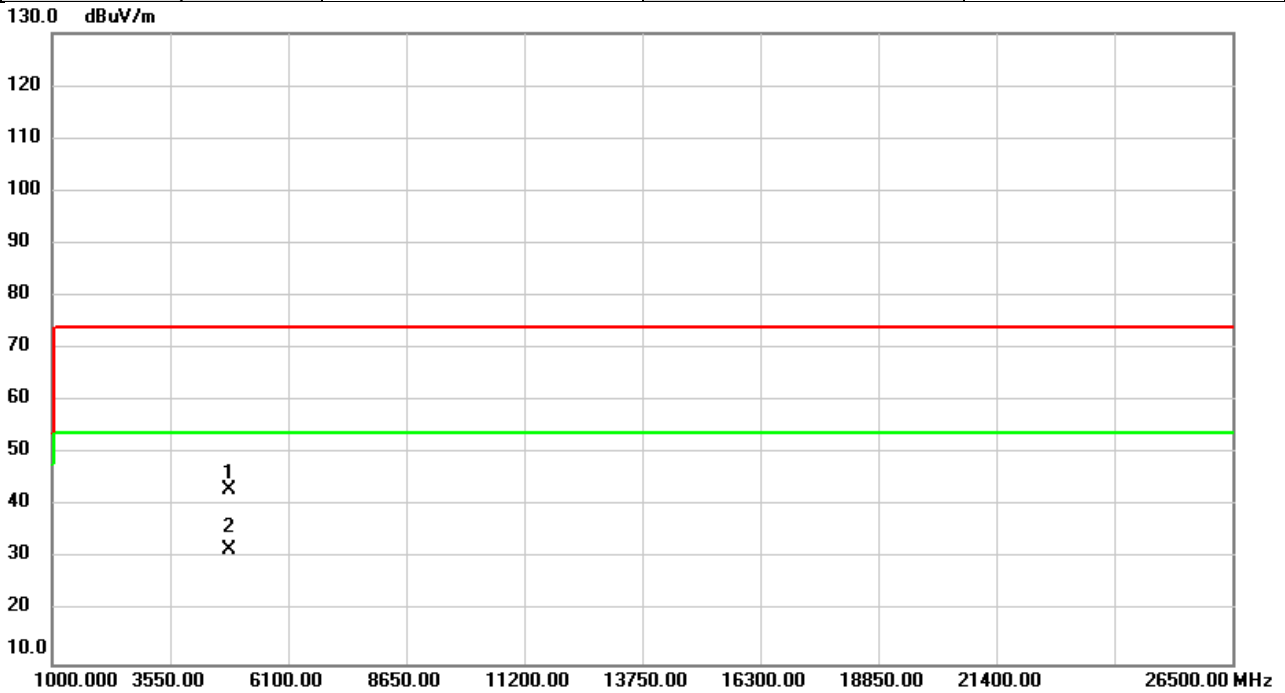


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7386.000	53.30	-2.44	50.86	74.00	-23.14	peak	
2	*	7386.000	42.85	-2.44	40.41	54.00	-13.59	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/2/9
Test Frequency	2412MHz	Polarization	Vertical
Temp	20°C	Hum.	61%

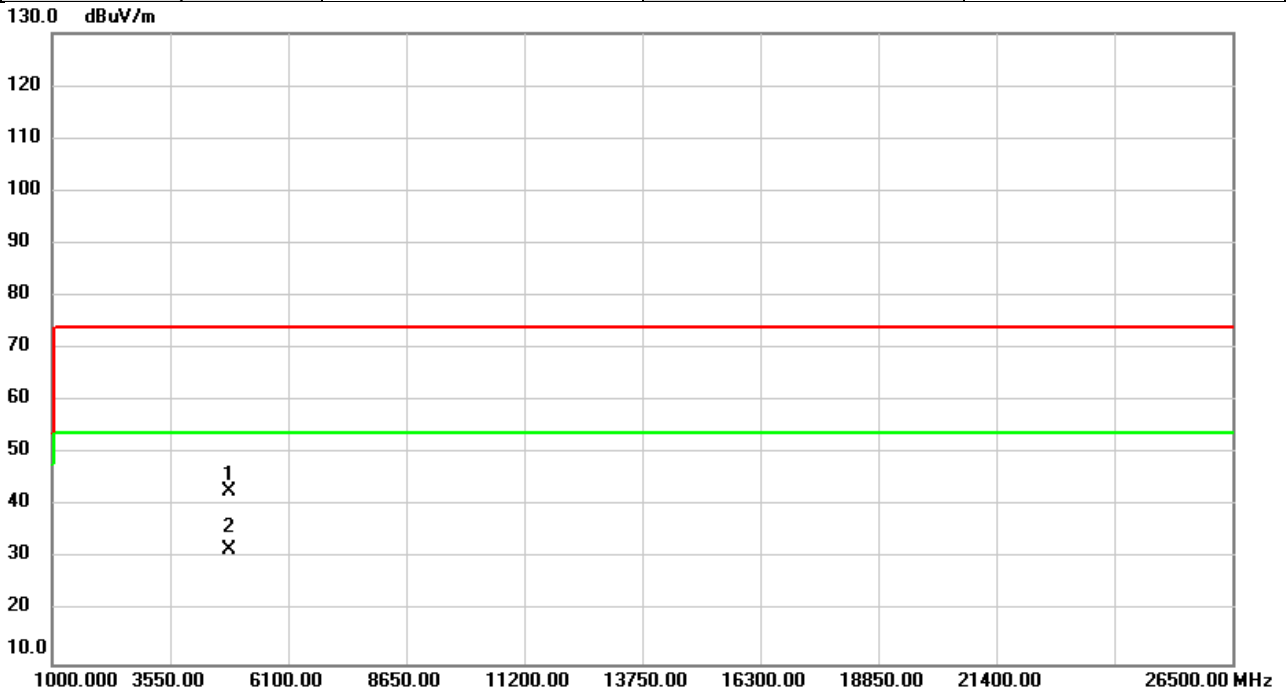


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	53.10	-9.83	43.27	74.00	-30.73	peak	
2	*	4824.000	41.73	-9.83	31.90	54.00	-22.10	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/2/9
Test Frequency	2412MHz	Polarization	Horizontal
Temp	20°C	Hum.	61%

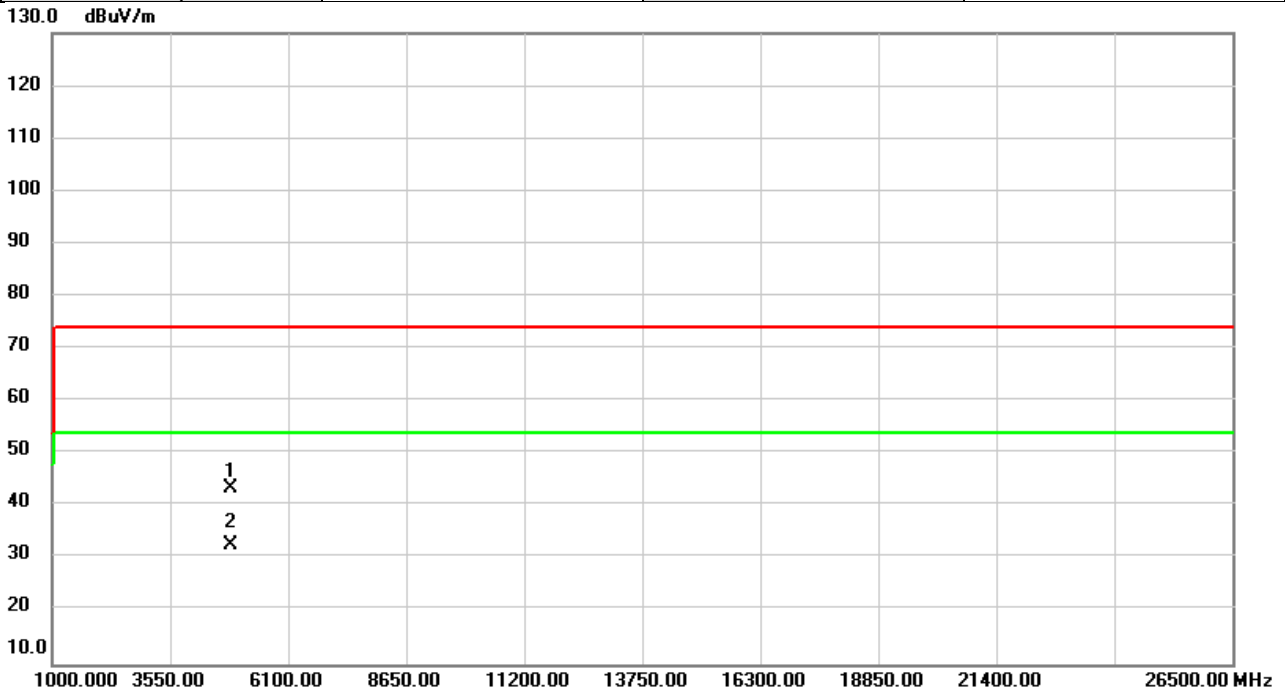


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	52.70	-9.83	42.87	74.00	-31.13	peak	
2	*	4824.000	41.61	-9.83	31.78	54.00	-22.22	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/2/9
Test Frequency	2437MHz	Polarization	Vertical
Temp	20°C	Hum.	61%

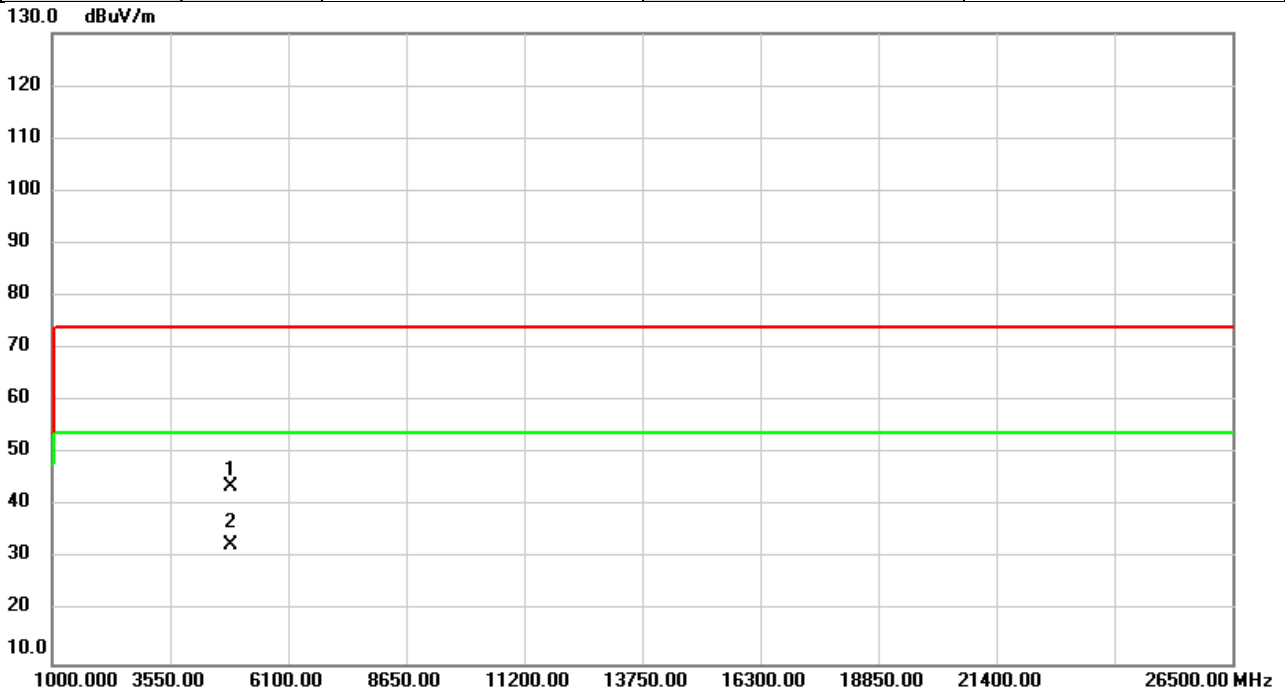


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	53.35	-9.78	43.57	74.00	-30.43	peak	
2	*	4874.000	42.58	-9.78	32.80	54.00	-21.20	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/2/9
Test Frequency	2437MHz	Polarization	Horizontal
Temp	20°C	Hum.	61%

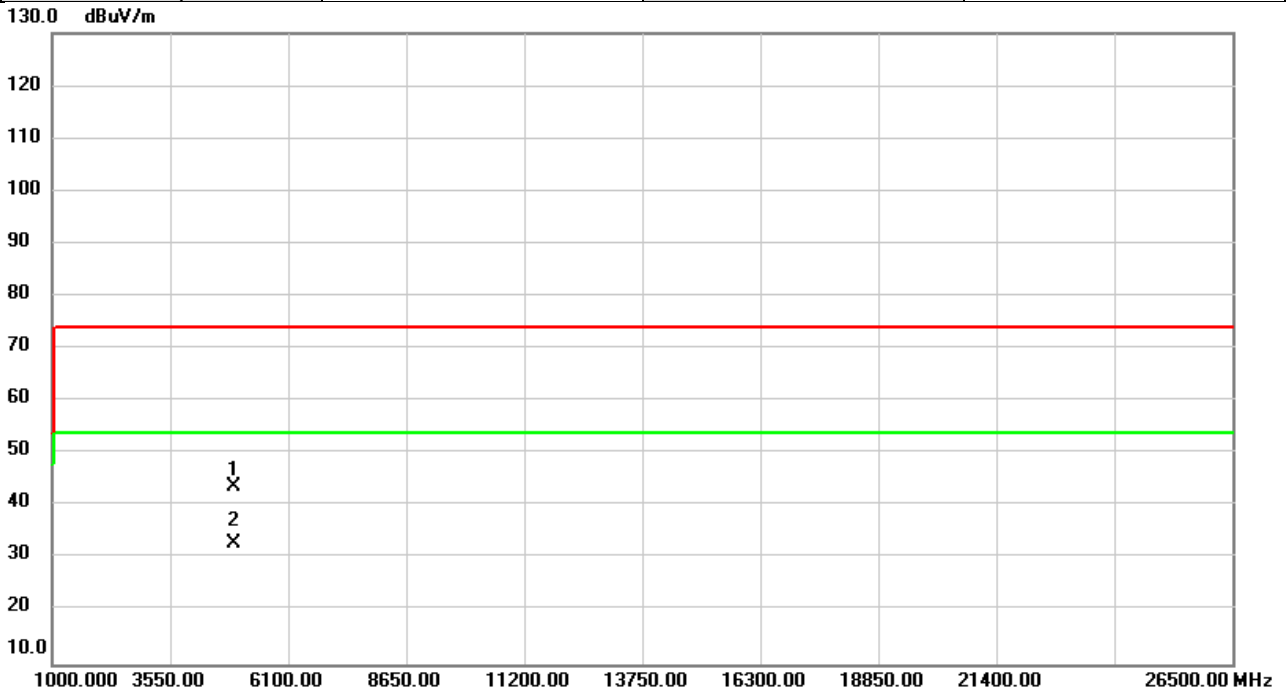


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	53.39	-9.78	43.61	74.00	-30.39	peak	
2	*	4874.000	42.40	-9.78	32.62	54.00	-21.38	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/2/9
Test Frequency	2462MHz	Polarization	Vertical
Temp	20°C	Hum.	61%

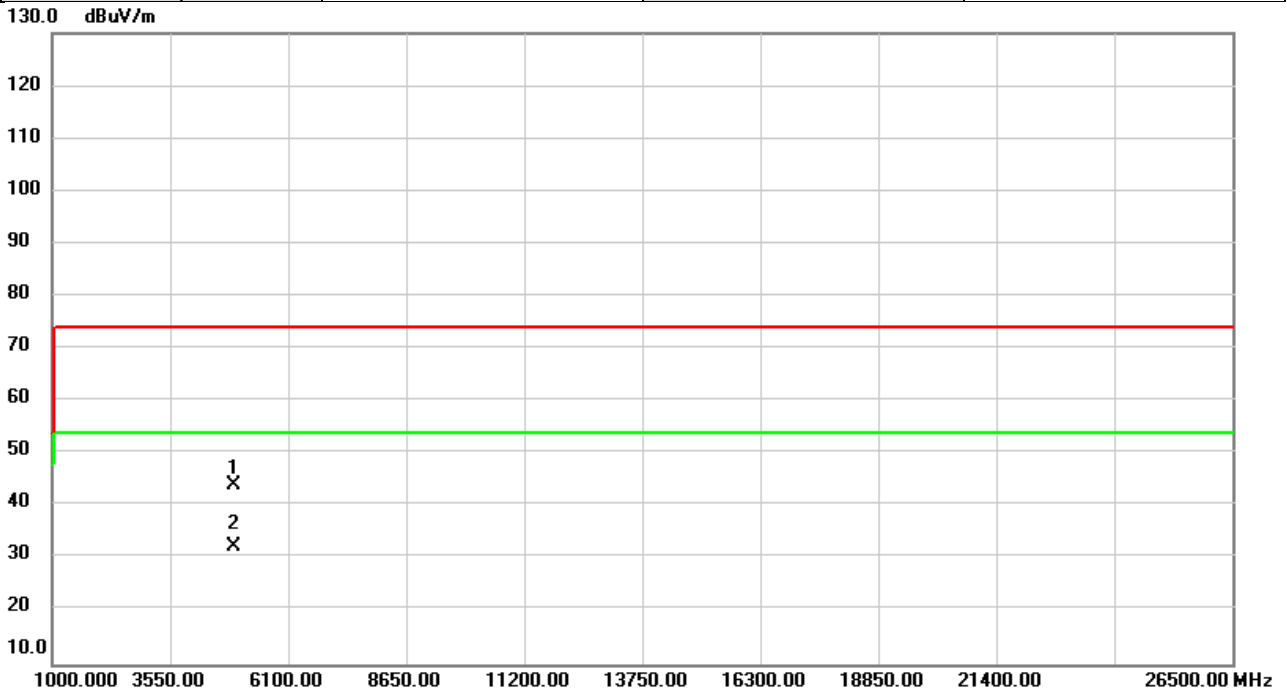


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	53.54	-9.72	43.82	74.00	-30.18	peak	
2	*	4924.000	42.67	-9.72	32.95	54.00	-21.05	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/2/9
Test Frequency	2462MHz	Polarization	Horizontal
Temp	20°C	Hum.	61%

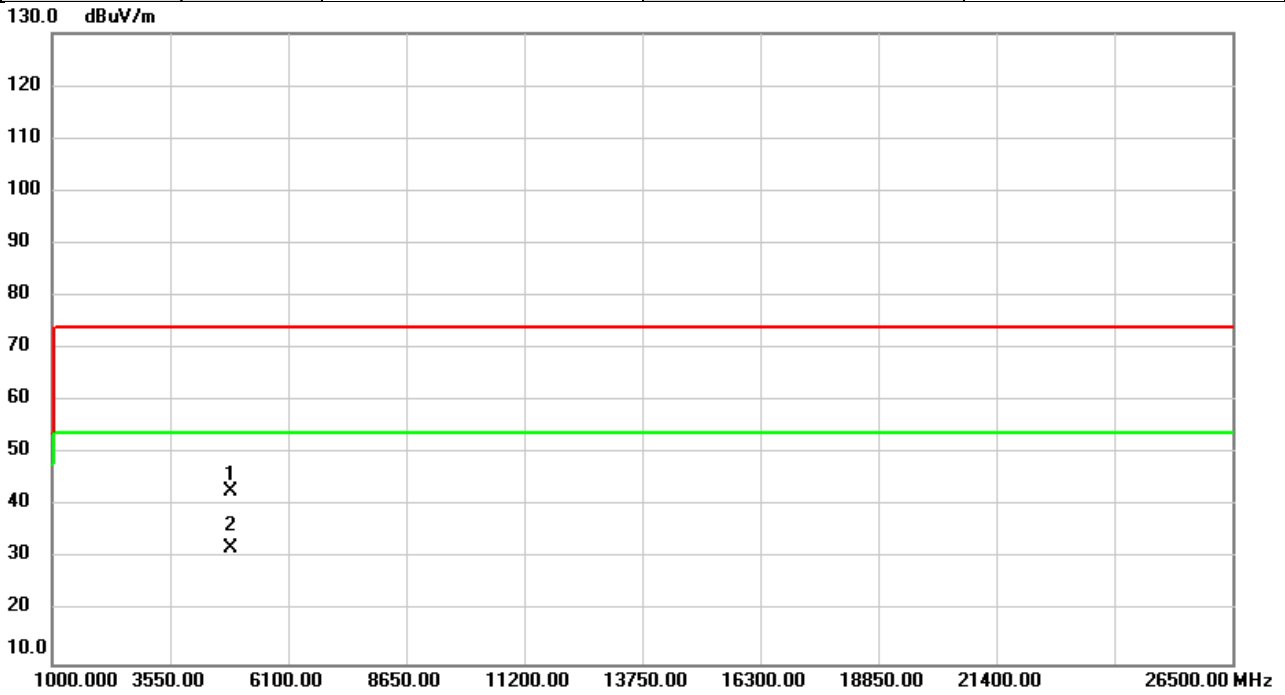


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	53.64	-9.72	43.92	74.00	-30.08	peak	
2	*	4924.000	42.05	-9.72	32.33	54.00	-21.67	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/2/9
Test Frequency	2422MHz	Polarization	Vertical
Temp	20°C	Hum.	61%

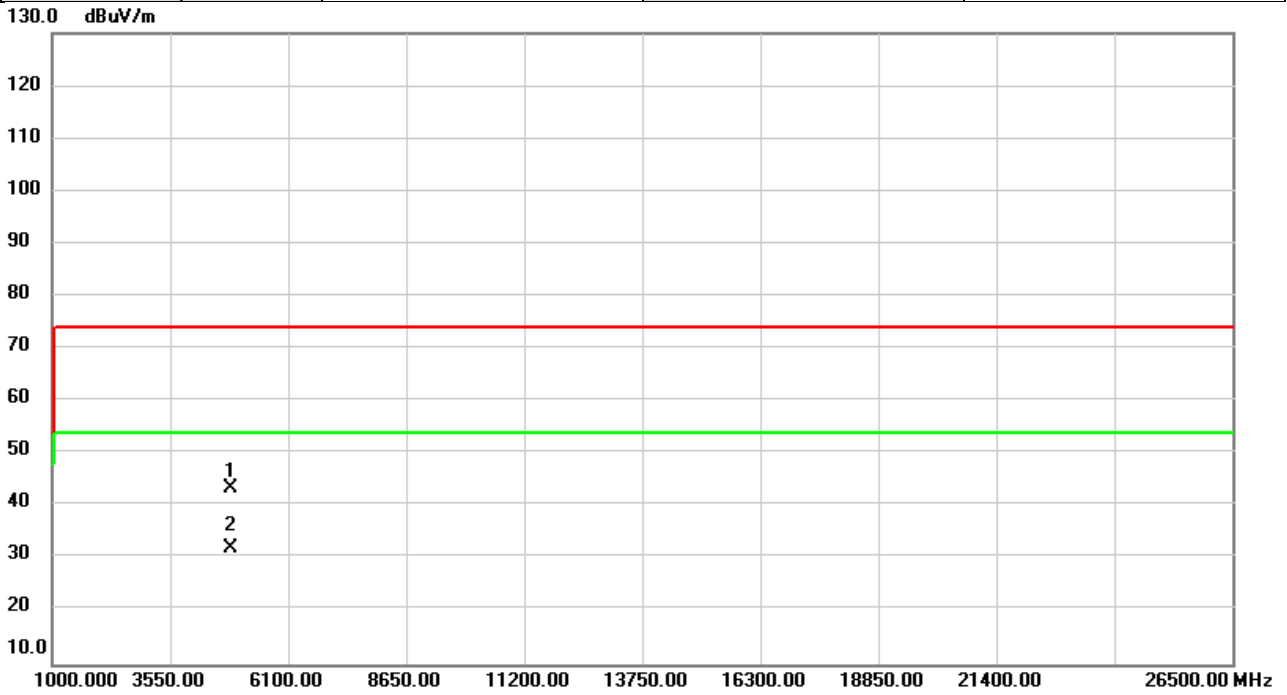


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4844.000	52.73	-9.80	42.93	74.00	-31.07	peak	
2	*	4844.000	41.80	-9.80	32.00	54.00	-22.00	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/2/9
Test Frequency	2422MHz	Polarization	Horizontal
Temp	20°C	Hum.	61%

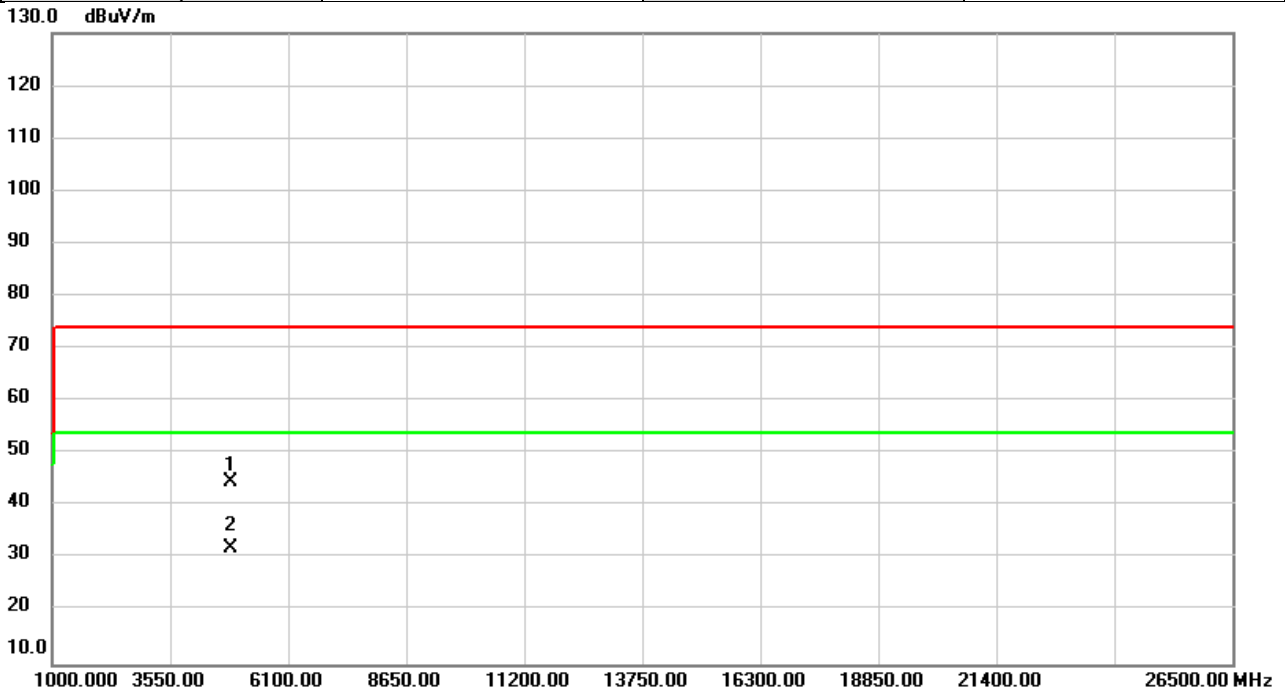


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4844.000	53.35	-9.80	43.55	74.00	-30.45	peak	
2	*	4844.000	41.94	-9.80	32.14	54.00	-21.86	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/2/9
Test Frequency	2437MHz	Polarization	Vertical
Temp	20°C	Hum.	61%

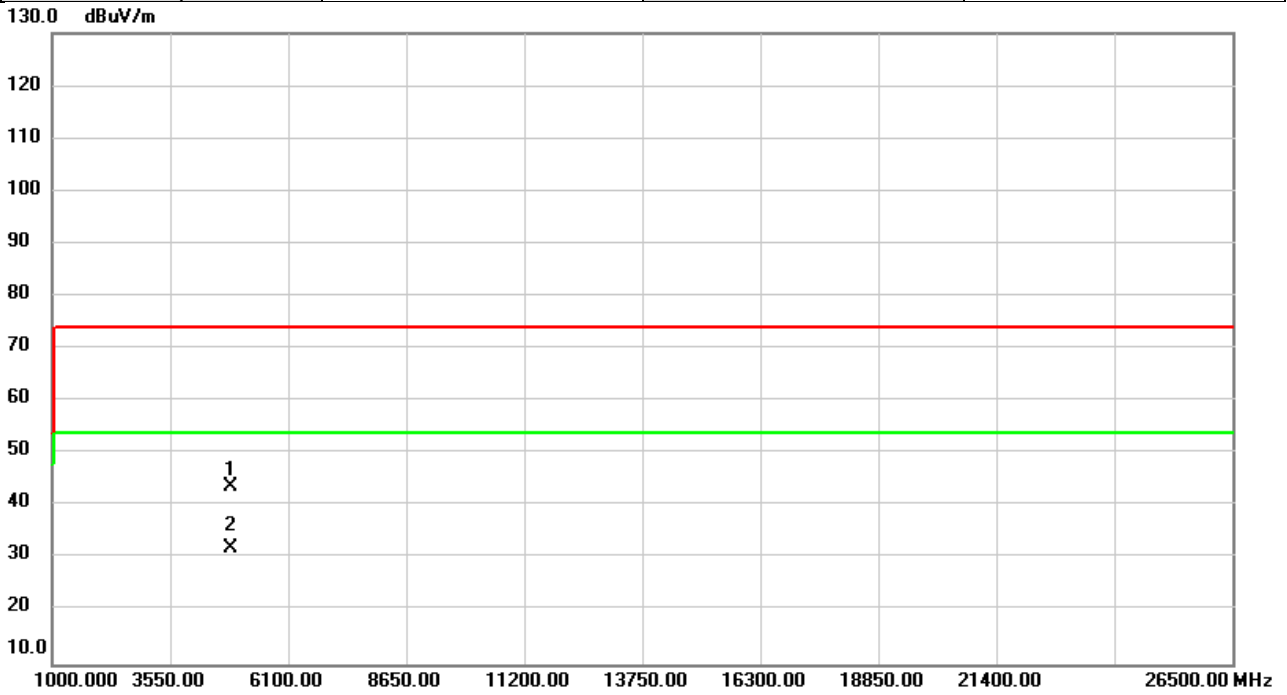


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	54.39	-9.78	44.61	74.00	-29.39	peak	
2	*	4874.000	41.93	-9.78	32.15	54.00	-21.85	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/2/9
Test Frequency	2437MHz	Polarization	Horizontal
Temp	20°C	Hum.	61%

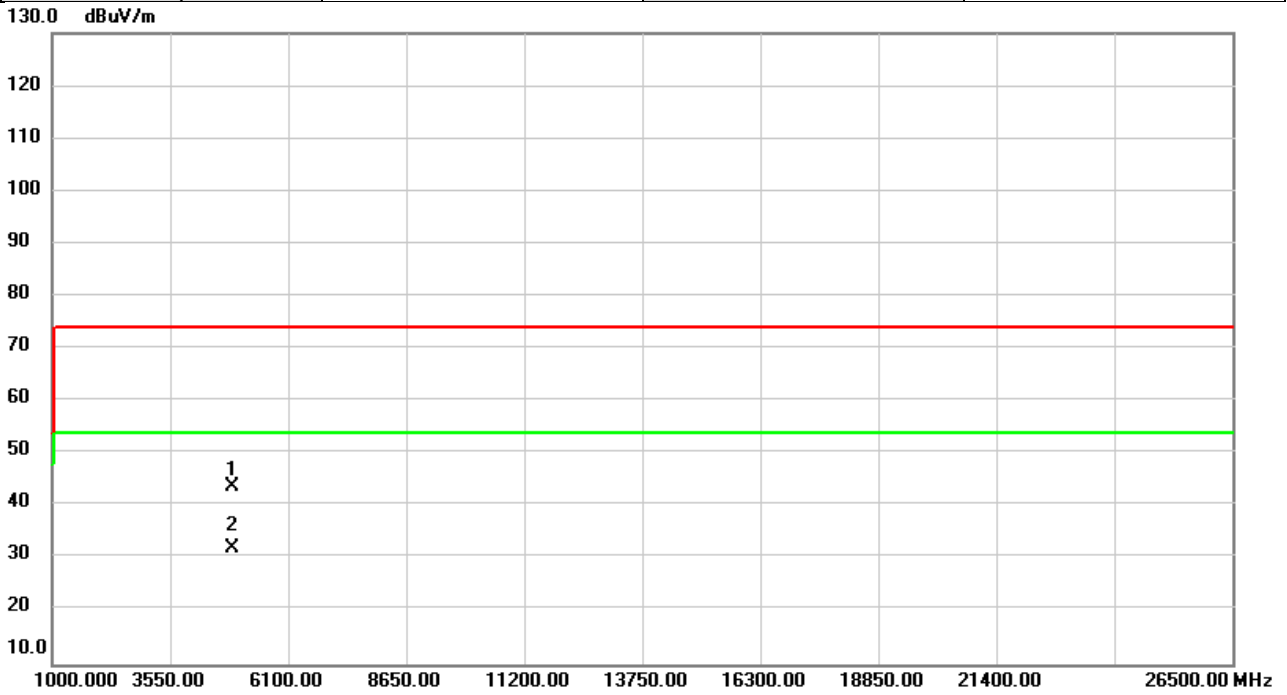


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	53.67	-9.78	43.89	74.00	-30.11	peak	
2	*	4874.000	41.80	-9.78	32.02	54.00	-21.98	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/2/9
Test Frequency	2452MHz	Polarization	Vertical
Temp	20°C	Hum.	61%

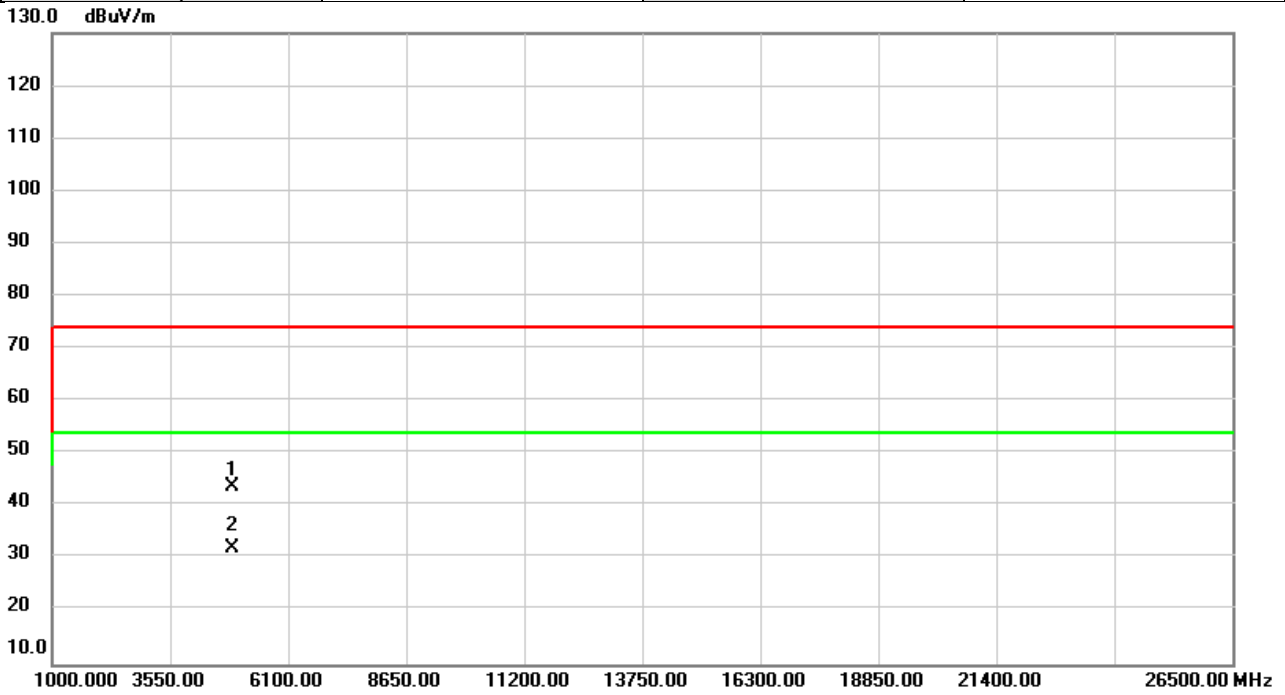


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4904.000	53.63	-9.74	43.89	74.00	-30.11	peak	
2	*	4904.000	41.82	-9.74	32.08	54.00	-21.92	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/2/9
Test Frequency	2452MHz	Polarization	Horizontal
Temp	20°C	Hum.	61%



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4904.000	53.51	-9.74	43.77	74.00	-30.23	peak	
2	*	4904.000	41.80	-9.74	32.06	54.00	-21.94	AVG	

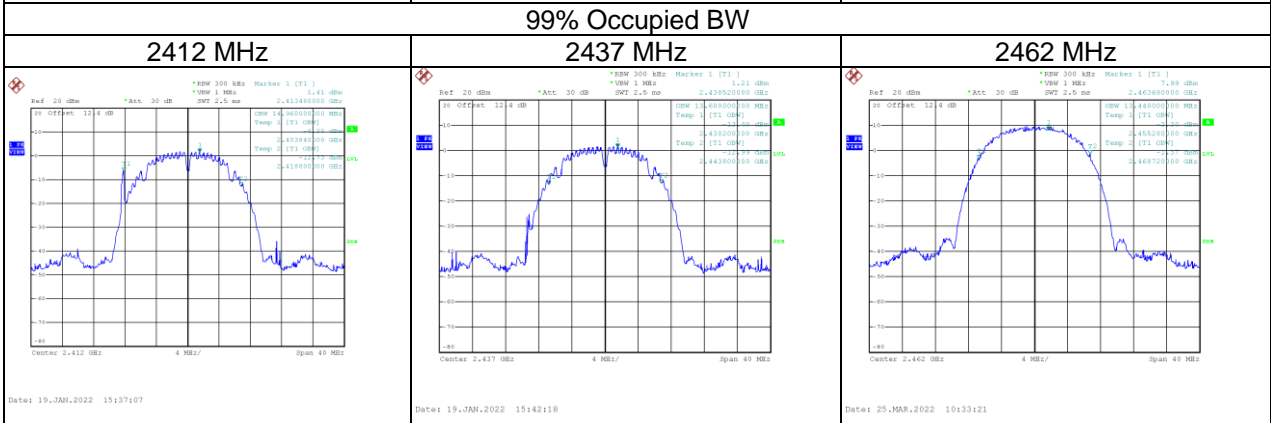
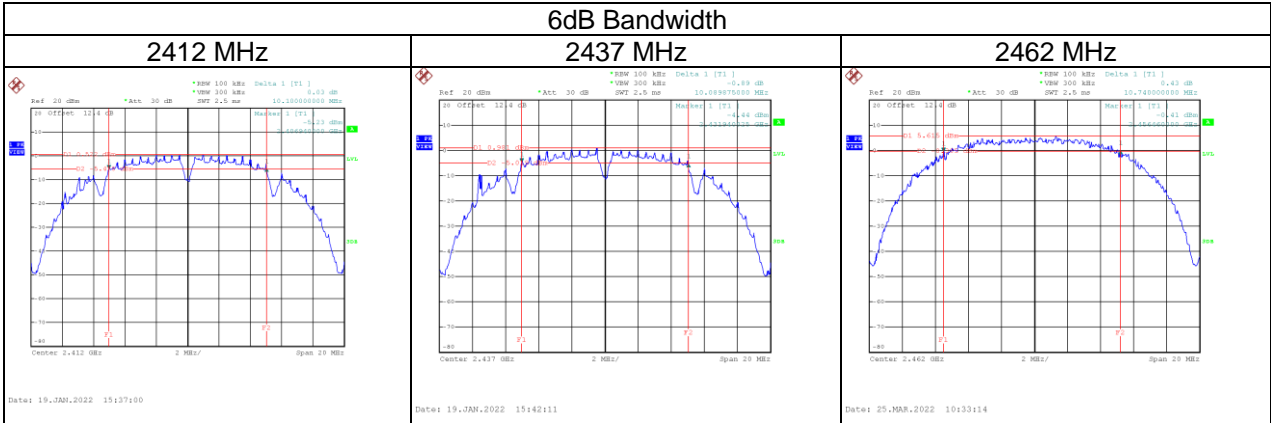
REMARKS:

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

APPENDIX D BANDWIDTH

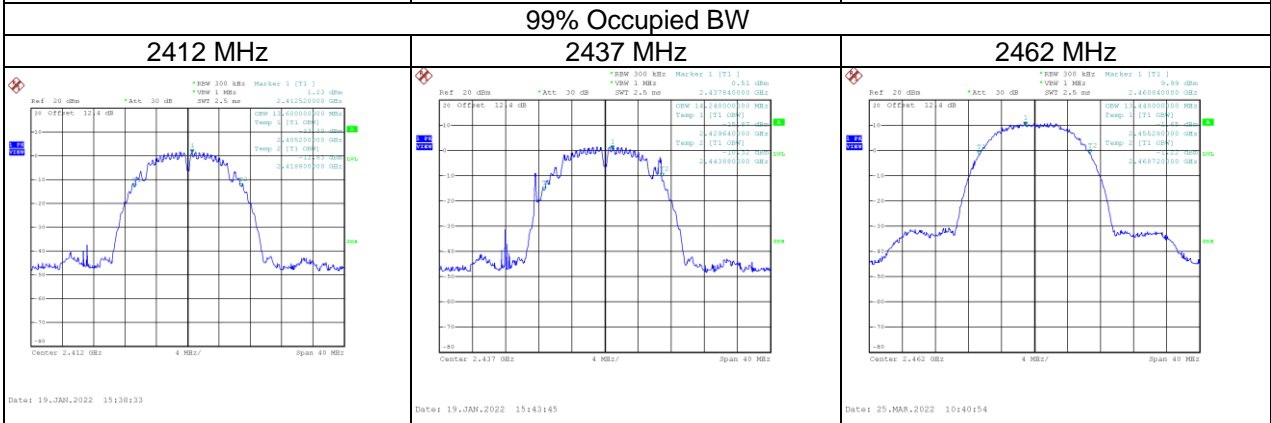
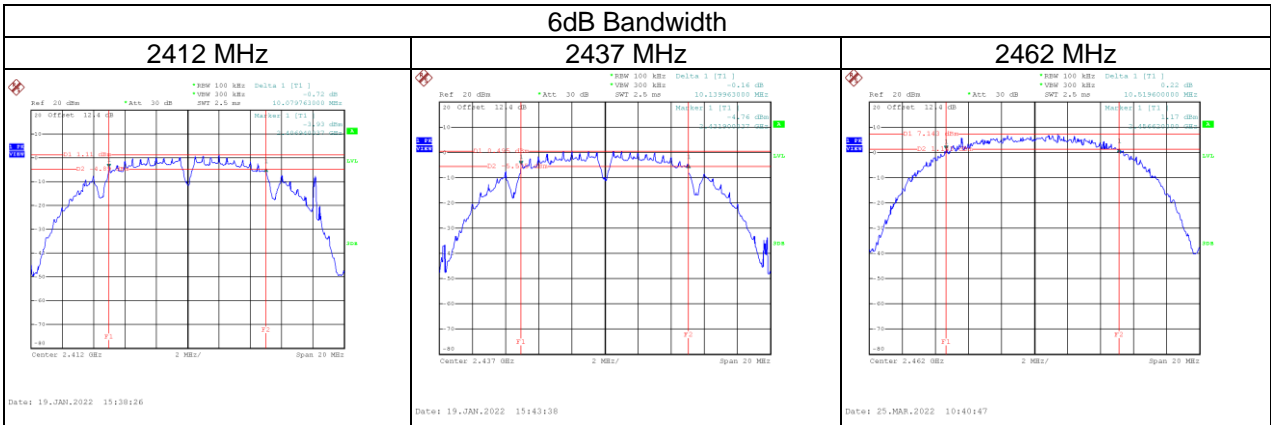
Test Mode	IEEE 802.11b Antenna_Aux Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	10.10	14.96	≥ 500	Pass
2437	10.09	13.60	≥ 500	Pass
2462	10.74	13.44	≥ 500	Pass



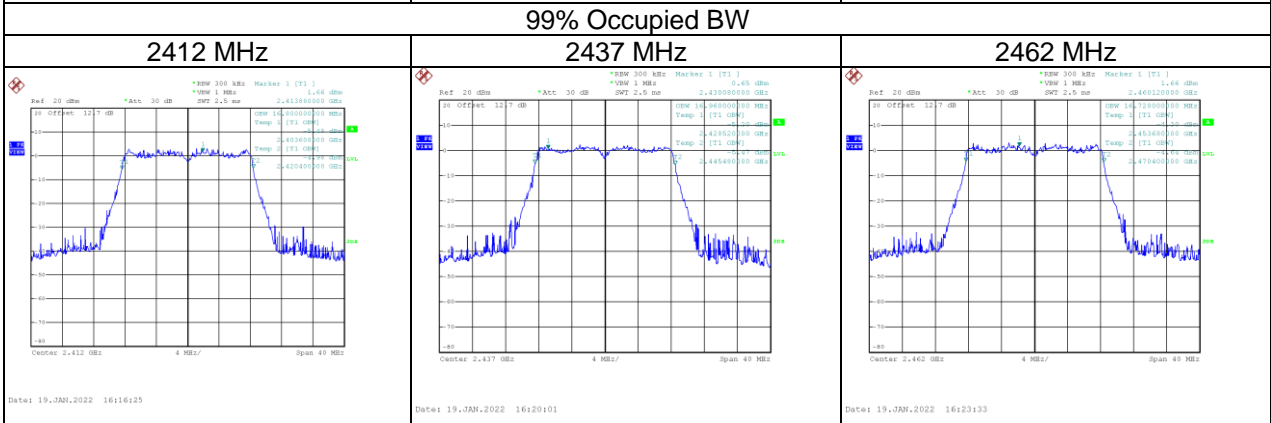
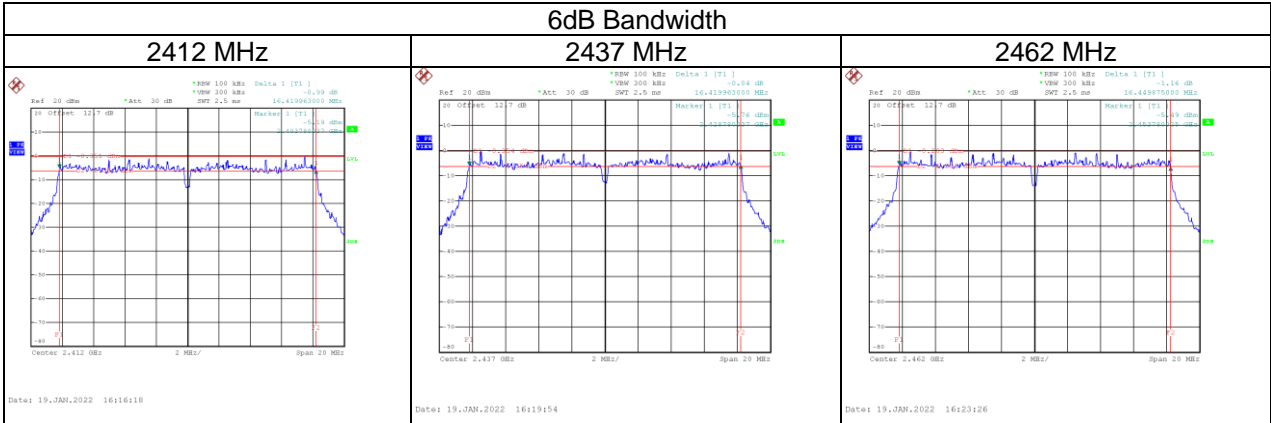
Test Mode	IEEE 802.11b Antenna_Main Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	10.08	13.60	≥ 500	Pass
2437	10.14	14.24	≥ 500	Pass
2462	10.52	13.44	≥ 500	Pass



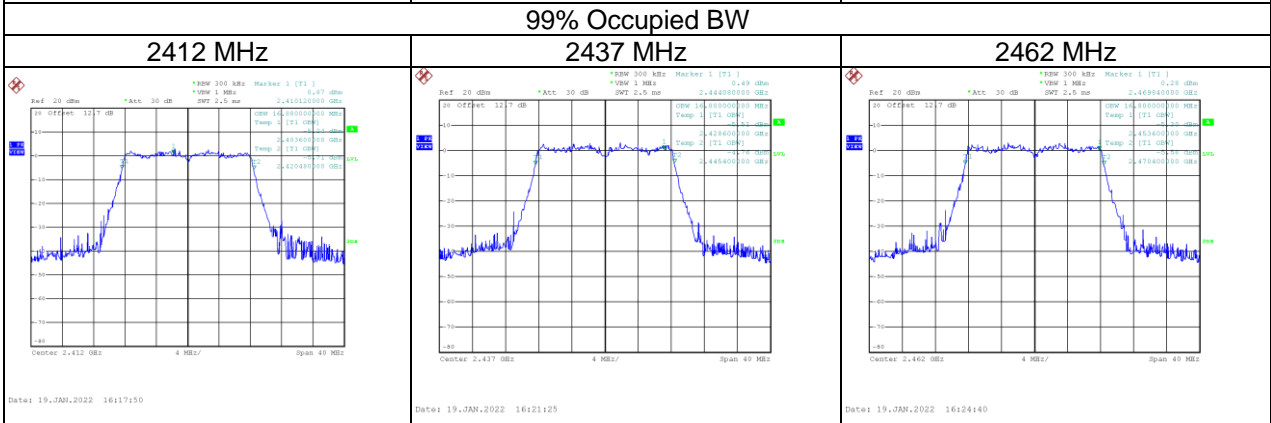
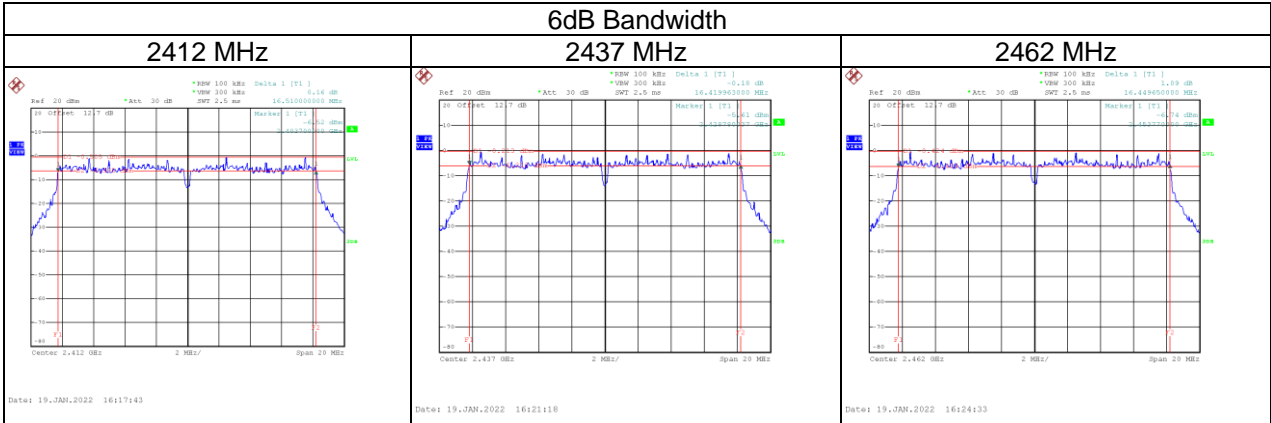
Test Mode	IEEE 802.11g_Aux Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	16.42	16.80	≥ 500	Pass
2437	16.42	16.96	≥ 500	Pass
2462	16.45	16.72	≥ 500	Pass



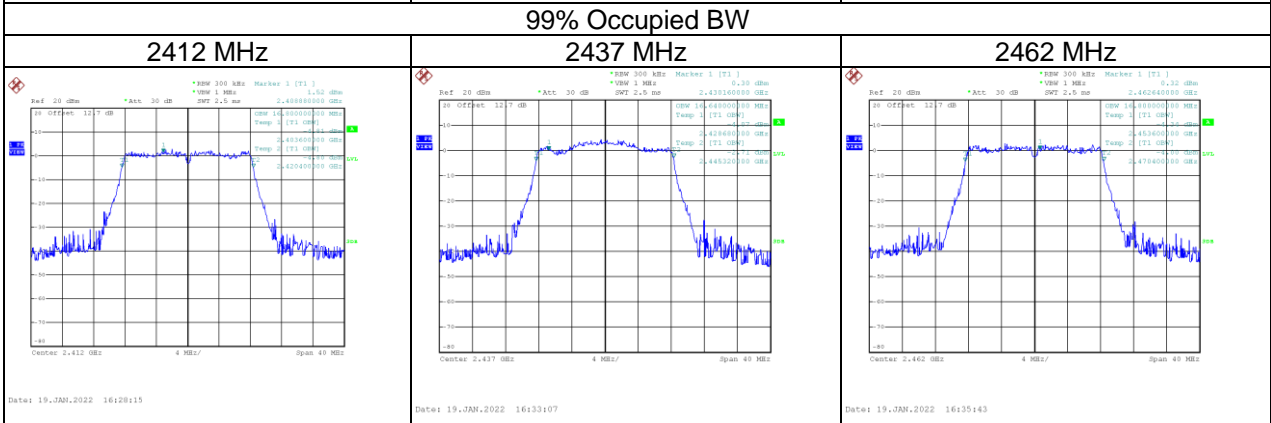
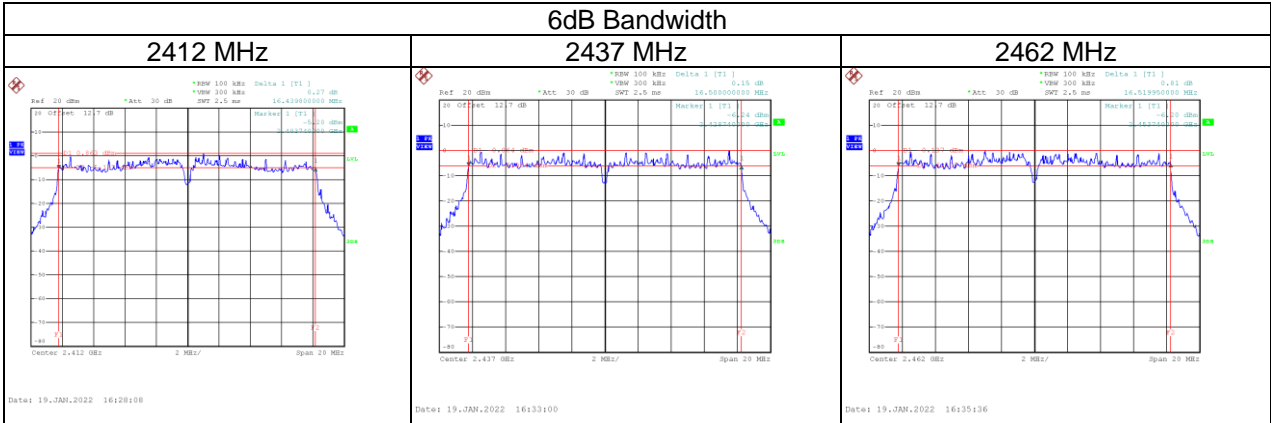
Test Mode	IEEE 802.11g_Main Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	16.51	16.88	≥ 500	Pass
2437	16.42	16.80	≥ 500	Pass
2462	16.45	16.80	≥ 500	Pass



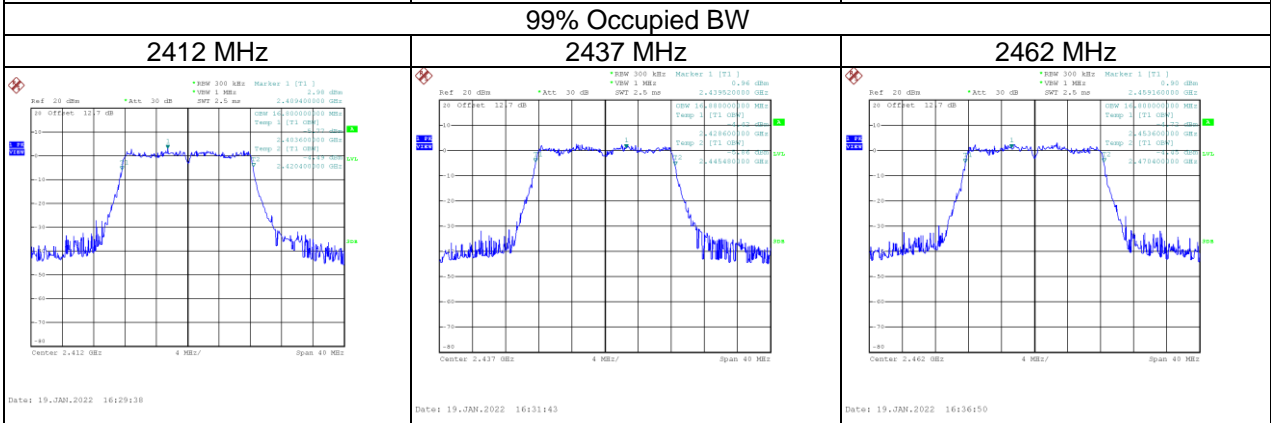
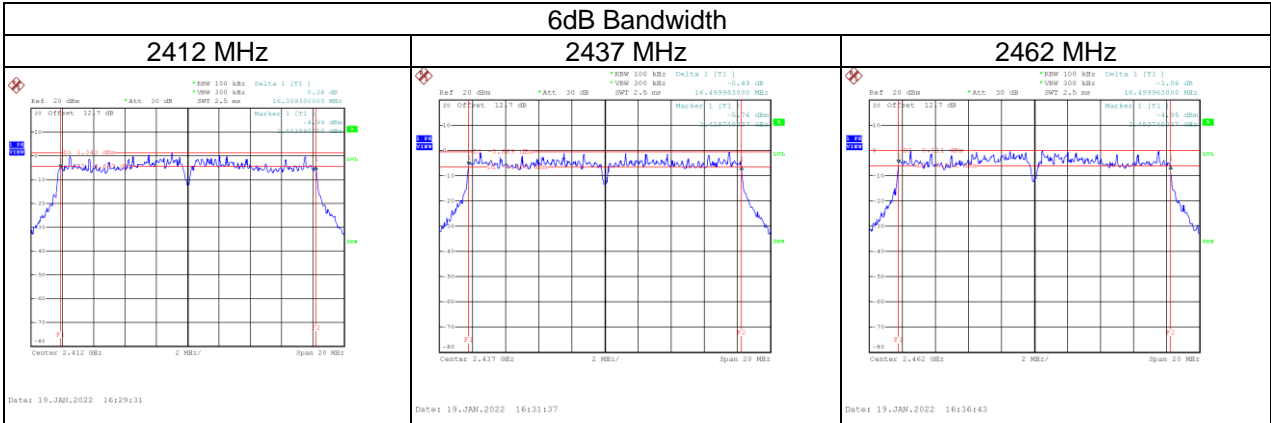
Test Mode	IEEE 802.11n (HT20)_Aux Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	16.44	16.80	≥ 500	Pass
2437	16.50	16.64	≥ 500	Pass
2462	16.52	16.80	≥ 500	Pass



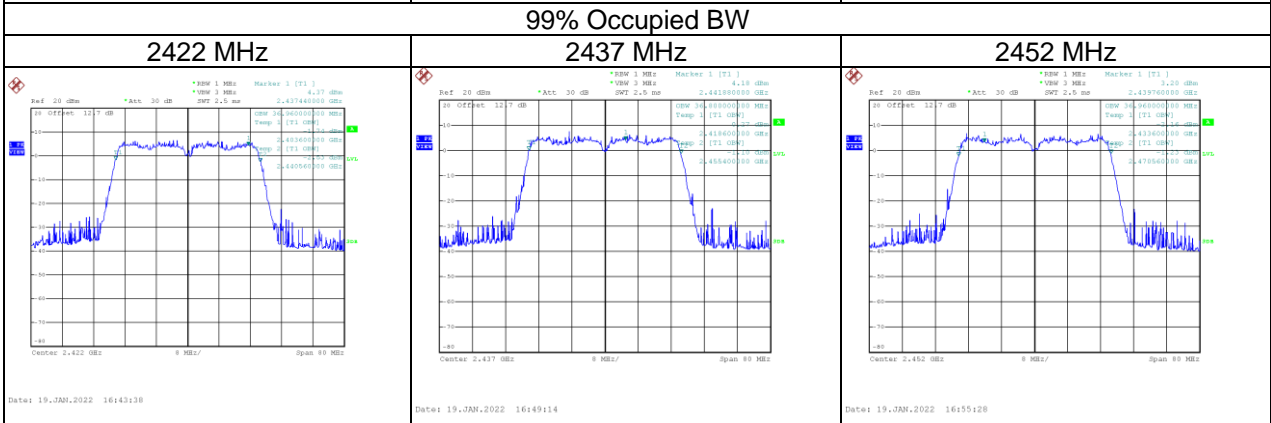
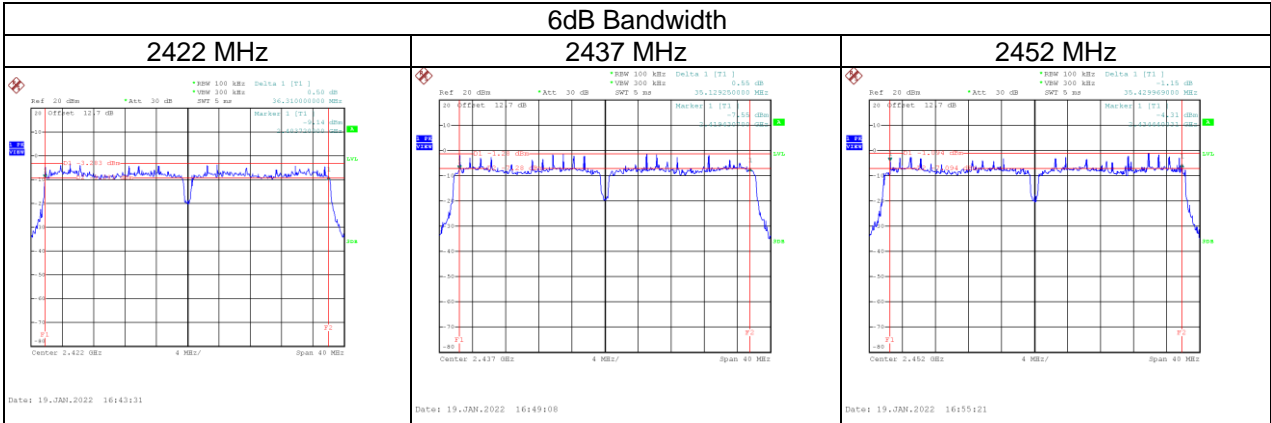
Test Mode	IEEE 802.11n (HT20)_Main Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	16.31	16.80	≥ 500	Pass
2437	16.50	16.88	≥ 500	Pass
2462	16.50	16.80	≥ 500	Pass



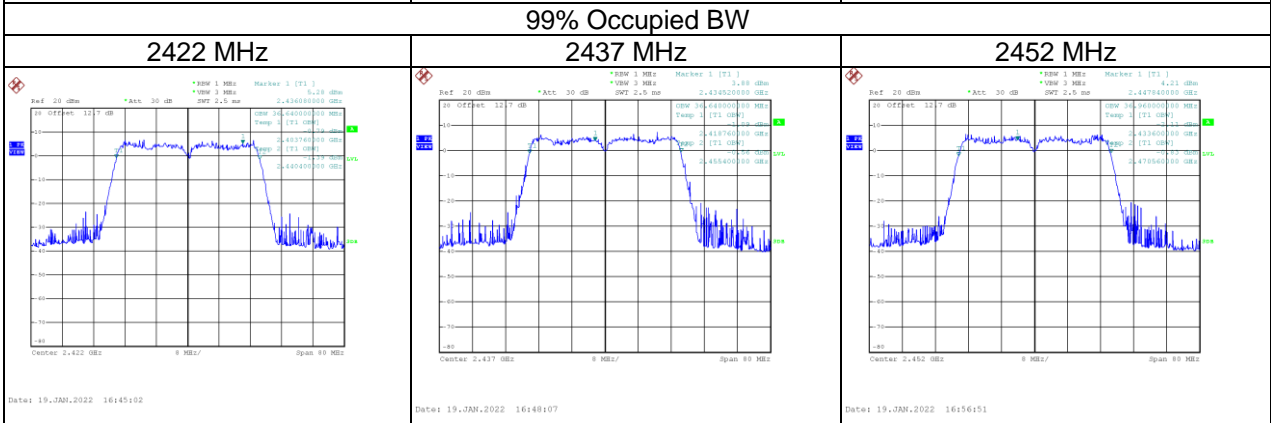
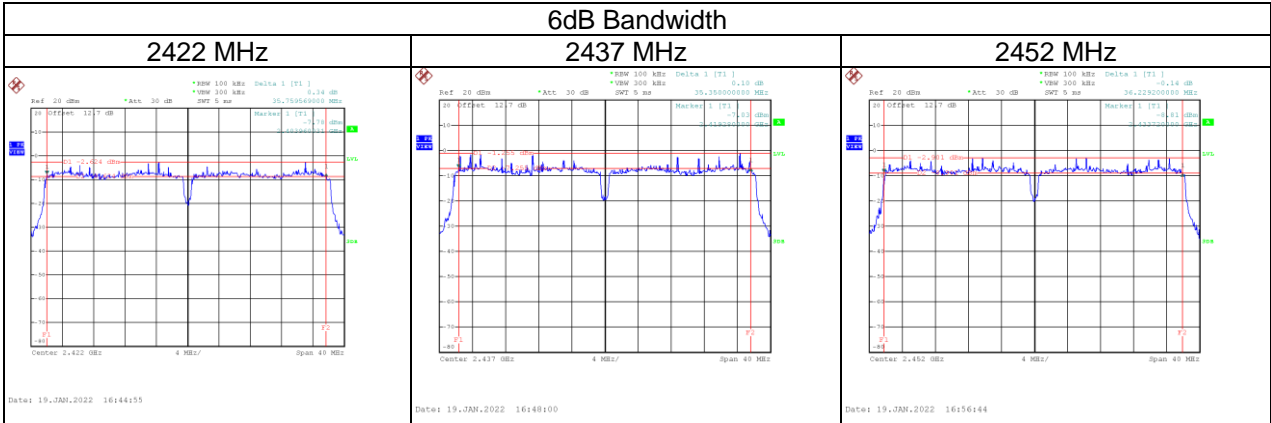
Test Mode	IEEE 802.11n (HT40)_Aux Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2422	36.31	36.96	≥ 500	Pass
2437	35.13	36.80	≥ 500	Pass
2452	35.43	36.96	≥ 500	Pass



Test Mode	IEEE 802.11n (HT40)_Main Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2422	35.76	36.64	≥ 500	Pass
2437	35.35	36.64	≥ 500	Pass
2452	36.23	36.96	≥ 500	Pass



APPENDIX E OUTPUT POWER

Test Mode	IEEE 802.11b Antenna_Aux Antenna	Tested Date	2022/1/18
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	13.09	0.0204	30.00	1.0000	Complies
2437	13.10	0.0204	30.00	1.0000	Complies
2462	13.26	0.0212	30.00	1.0000	Complies

Test Mode	IEEE 802.11b_Main Antenna	Tested Date	2022/1/18
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	13.19	0.0208	30.00	1.0000	Complies
2437	13.14	0.0206	30.00	1.0000	Complies
2462	13.15	0.0207	30.00	1.0000	Complies

Test Mode	IEEE 802.11b_Total	Tested Date	2022/1/18
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	16.15	0.0412	30.00	1.0000	Complies
2437	16.13	0.0410	30.00	1.0000	Complies
2462	16.22	0.0418	30.00	1.0000	Complies

Test Mode	IEEE 802.11g_Aux Antenna	Tested Date	2022/1/18
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	18.44	0.0698	30.00	1.0000	Complies
2437	18.73	0.0746	30.00	1.0000	Complies
2462	18.46	0.0701	30.00	1.0000	Complies

Test Mode	IEEE 802.11g_Main Antenna	Tested Date	2022/1/18
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	18.87	0.0771	30.00	1.0000	Complies
2437	18.76	0.0752	30.00	1.0000	Complies
2462	18.84	0.0766	30.00	1.0000	Complies

Test Mode	IEEE 802.11g_Total	Tested Date	2022/1/18
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	21.67	0.1469	30.00	1.0000	Complies
2437	21.76	0.1498	30.00	1.0000	Complies
2462	21.66	0.1467	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT20)_Aux Antenna	Tested Date	2022/1/18
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	19.25	0.0841	30.00	1.0000	Complies
2437	19.04	0.0802	30.00	1.0000	Complies
2462	19.52	0.0895	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT20)_Main Antenna	Tested Date	2022/1/18
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	19.05	0.0804	30.00	1.0000	Complies
2437	18.71	0.0743	30.00	1.0000	Complies
2462	19.53	0.0897	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT20)_Total	Tested Date	2022/1/18
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	22.16	0.1645	30.00	1.0000	Complies
2437	21.89	0.1545	30.00	1.0000	Complies
2462	22.54	0.1793	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT40)_Aux Antenna	Tested Date	2022/1/18
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	19.42	0.0875	30.00	1.0000	Complies
2437	19.73	0.0940	30.00	1.0000	Complies
2452	19.75	0.0944	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT40)_Main Antenna	Tested Date	2022/1/18
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	18.95	0.0785	30.00	1.0000	Complies
2437	18.72	0.0745	30.00	1.0000	Complies
2452	18.77	0.0753	30.00	1.0000	Complies

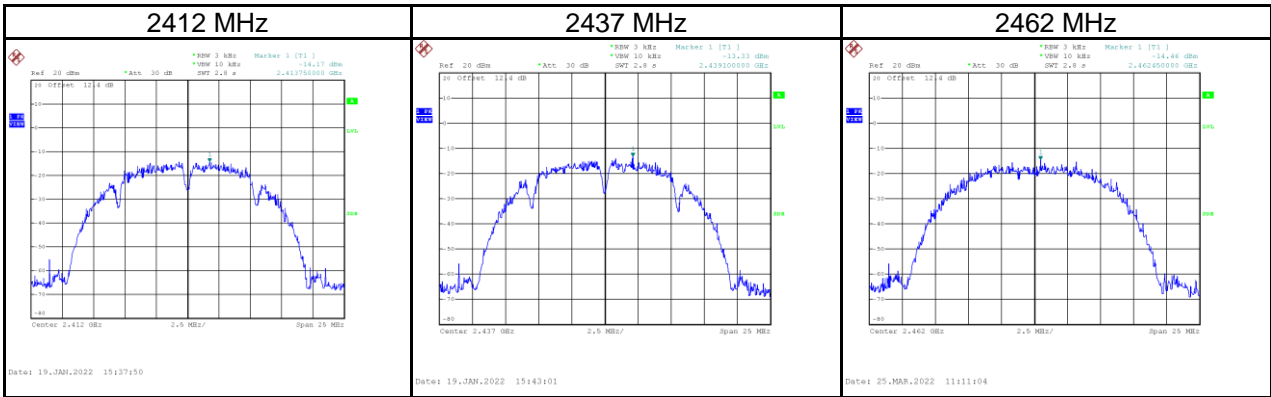
Test Mode	IEEE 802.11n (HT40)_Total	Tested Date	2022/1/18
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	22.20	0.1660	30.00	1.0000	Complies
2437	22.26	0.1684	30.00	1.0000	Complies
2452	22.30	0.1697	30.00	1.0000	Complies

APPENDIX F POWER SPECTRAL DENSITY

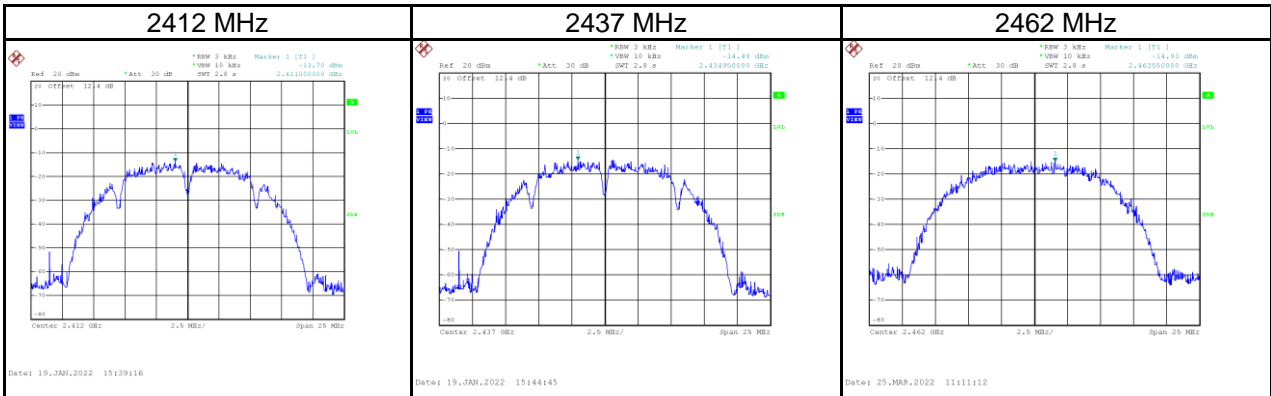
Test Mode	IEEE 802.11b Antenna_Aux Antenna
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-14.17	5.96	Pass
2437	-13.33	5.96	Pass
2462	-14.46	5.96	Pass



Test Mode	IEEE 802.11b_Main Antenna
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-13.70	5.96	Pass
2437	-14.49	5.96	Pass
2462	-14.93	5.96	Pass

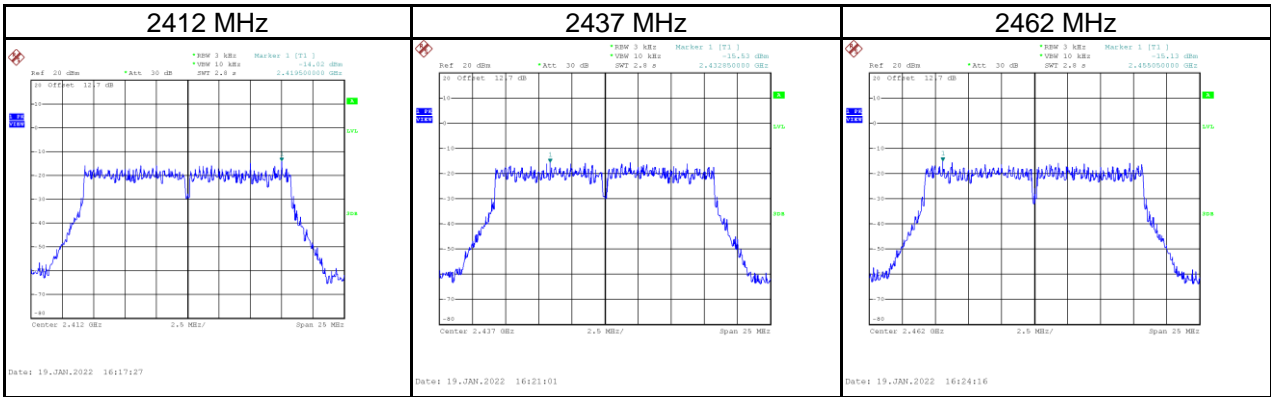


Test Mode	IEEE 802.11b_Total
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-10.92	5.96	Pass
2437	-10.86	5.96	Pass
2462	-11.68	5.96	Pass

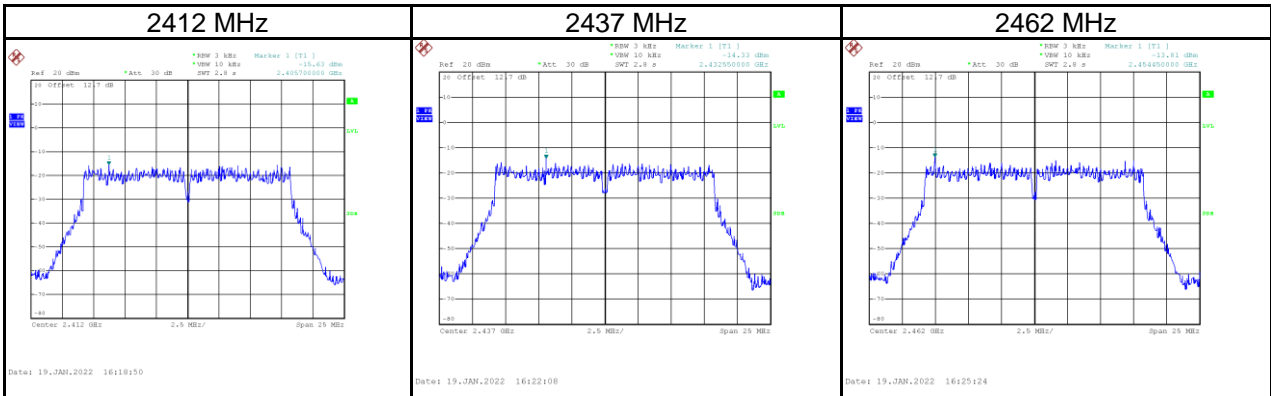
Test Mode	IEEE 802.11g_Aux Antenna
-----------	--------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-14.02	5.96	Pass
2437	-15.53	5.96	Pass
2462	-15.13	5.96	Pass



Test Mode	IEEE 802.11g_Main Antenna
-----------	---------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-15.63	5.96	Pass
2437	-14.33	5.96	Pass
2462	-13.81	5.96	Pass

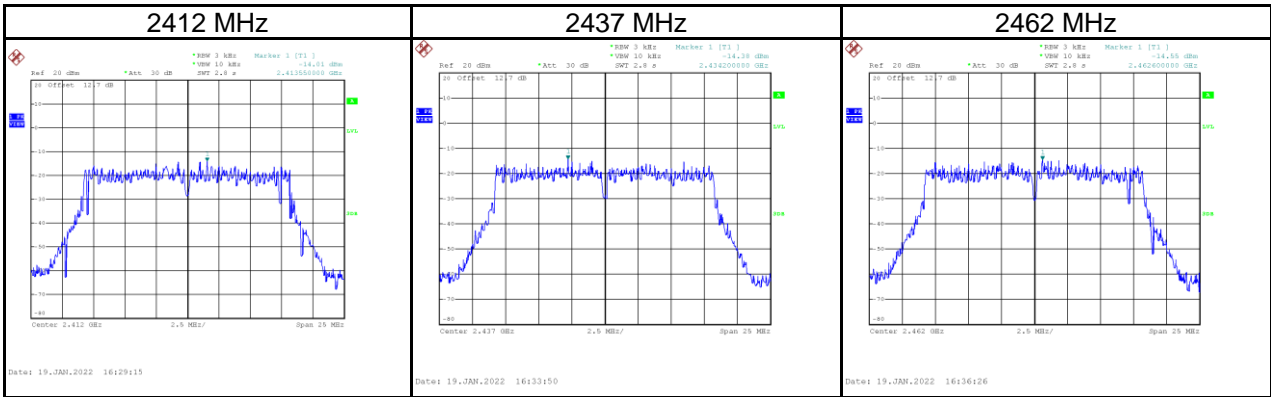


Test Mode	IEEE 802.11g_Total
-----------	--------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-11.74	5.96	Pass
2437	-11.88	5.96	Pass
2462	-11.41	5.96	Pass

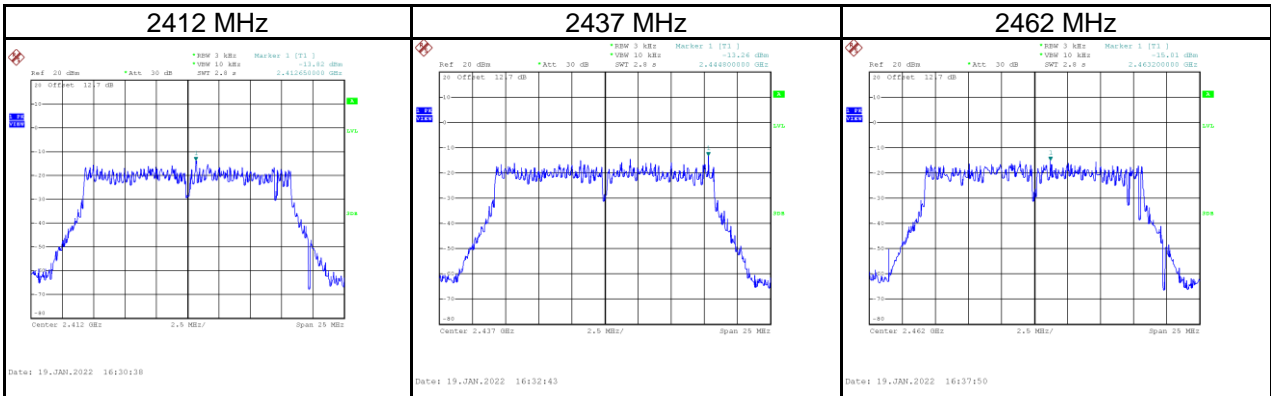
Test Mode	IEEE 802.11n (HT20)_Aux Antenna
-----------	---------------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-14.01	5.96	Pass
2437	-14.38	5.96	Pass
2462	-14.55	5.96	Pass



Test Mode	IEEE 802.11n (HT20)_Main Antenna
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-13.82	5.96	Pass
2437	-13.26	5.96	Pass
2462	-15.01	5.96	Pass

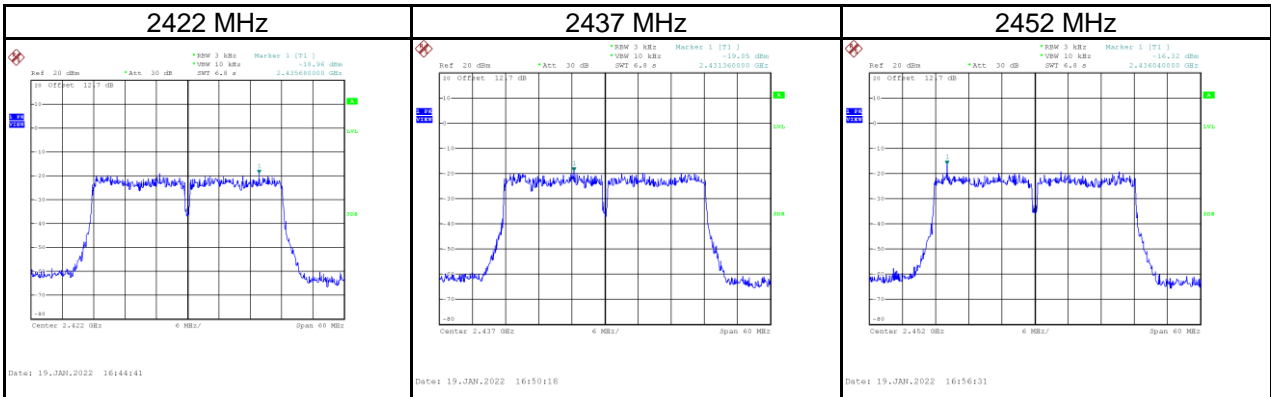


Test Mode	IEEE 802.11n (HT20)_Total
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-10.90	5.96	Pass
2437	-10.77	5.96	Pass
2462	-11.76	5.96	Pass

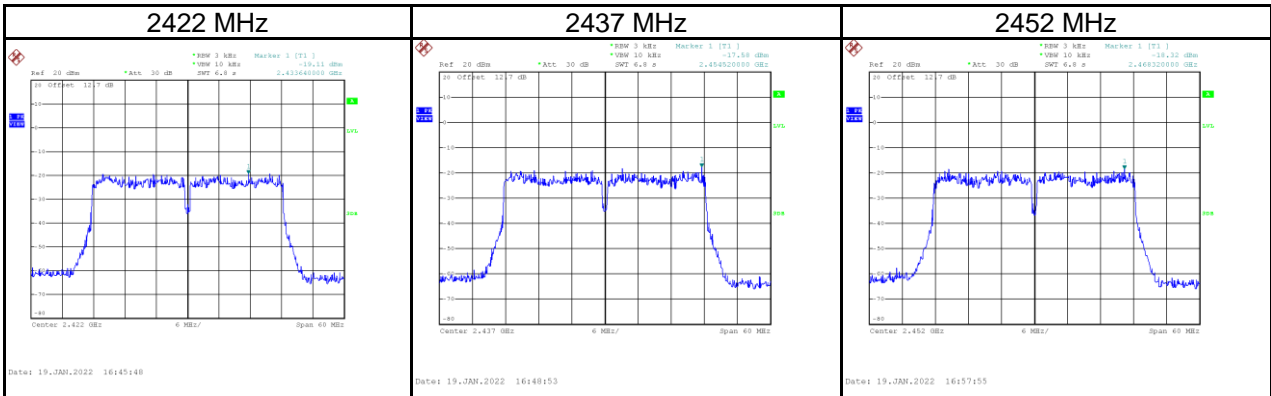
Test Mode	IEEE 802.11n (HT40)_Aux Antenna
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2422	-18.96	5.96	Pass
2437	-19.05	5.96	Pass
2452	-16.32	5.96	Pass



Test Mode	IEEE 802.11n (HT40)_Main Antenna
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2422	-19.11	5.96	Pass
2437	-17.58	5.96	Pass
2452	-18.32	5.96	Pass

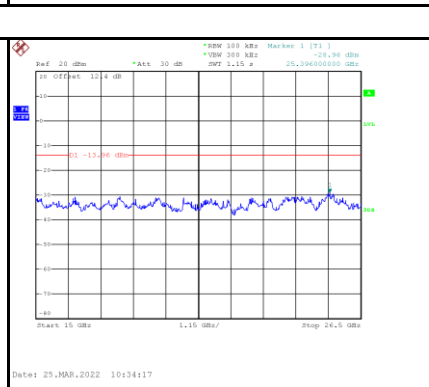
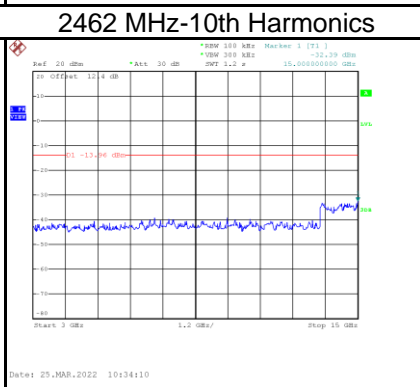
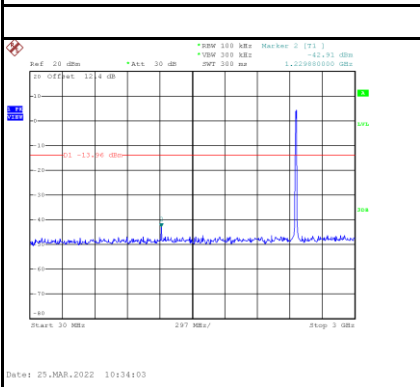
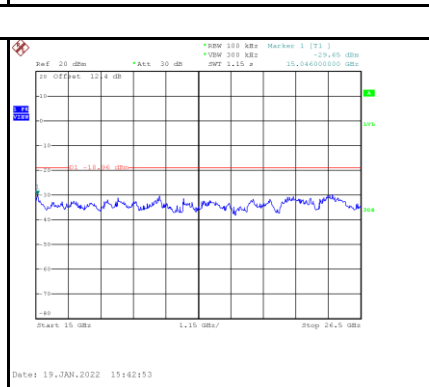
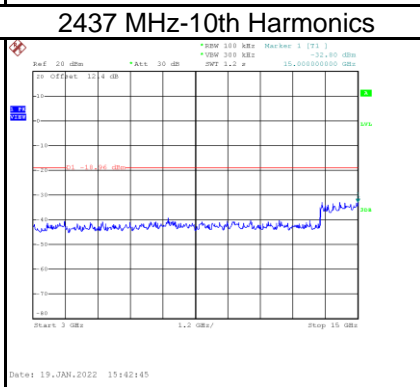
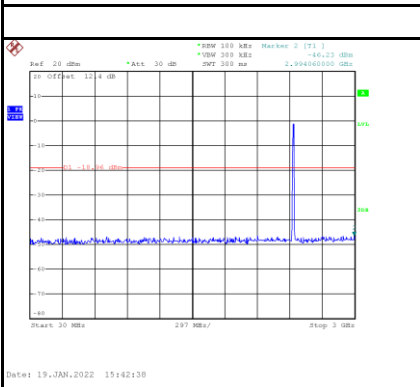
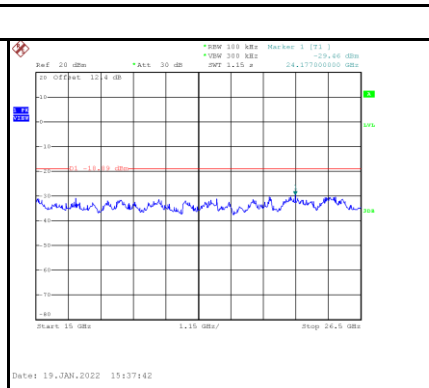
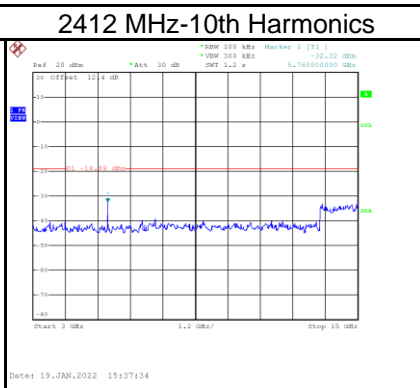
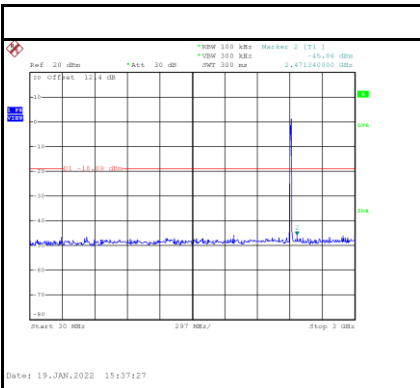
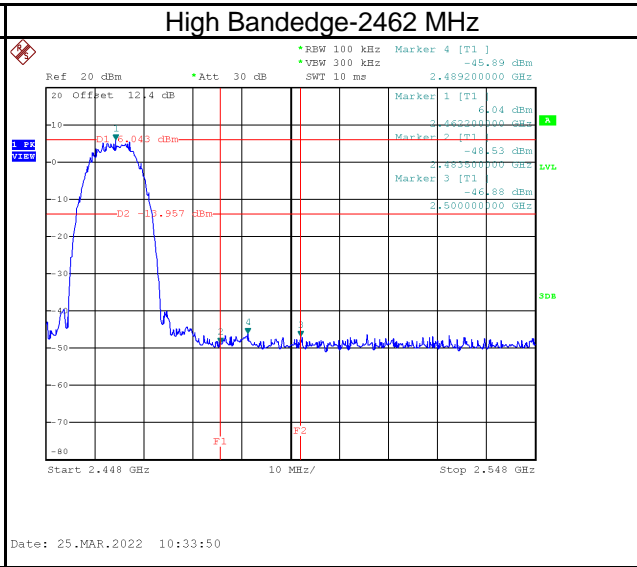
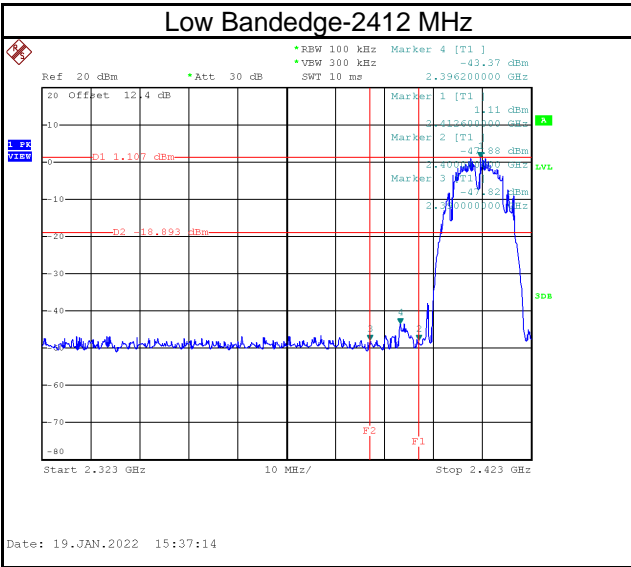


Test Mode	IEEE 802.11n (HT40)_Total
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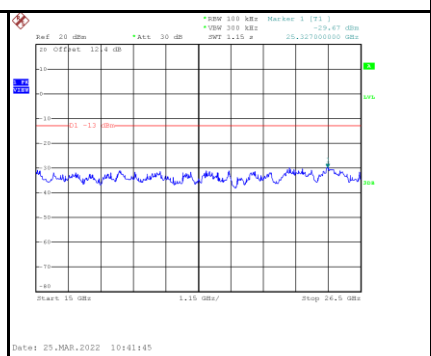
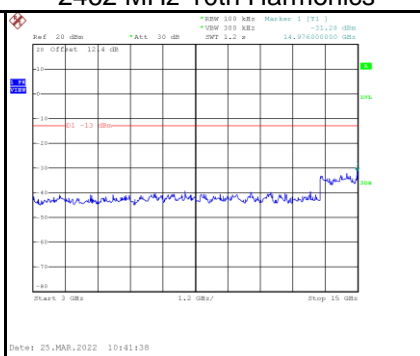
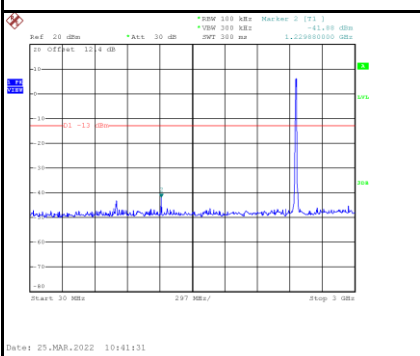
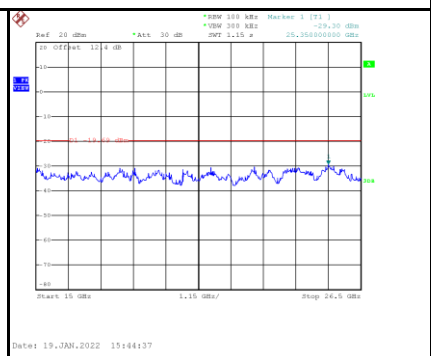
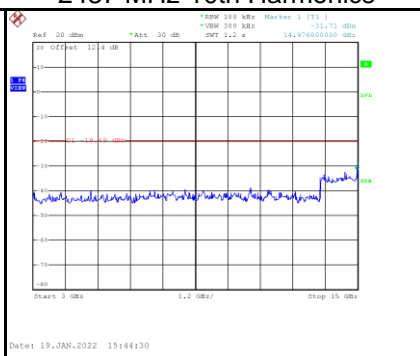
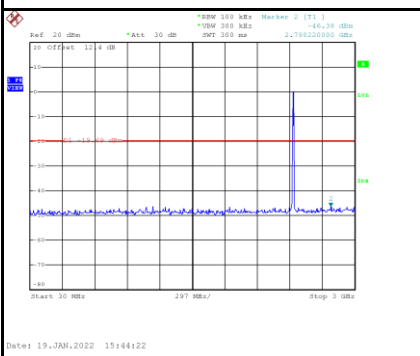
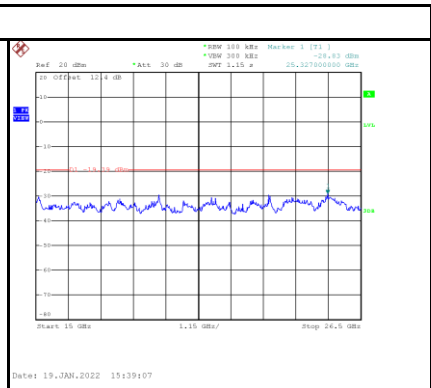
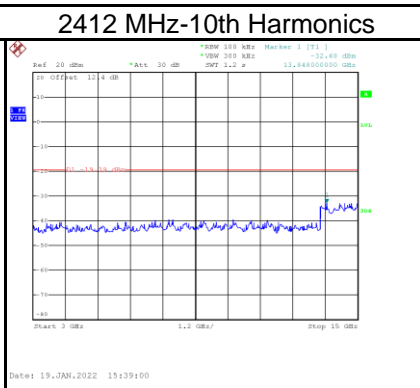
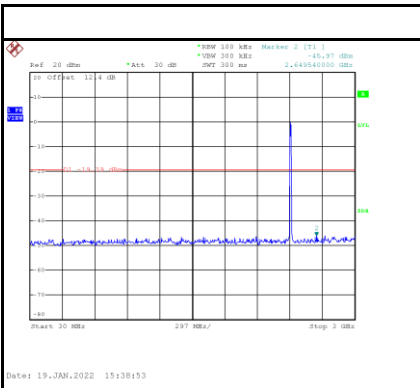
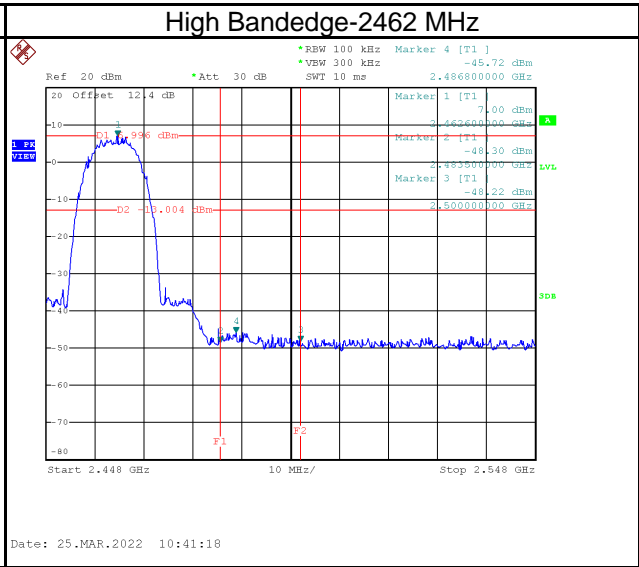
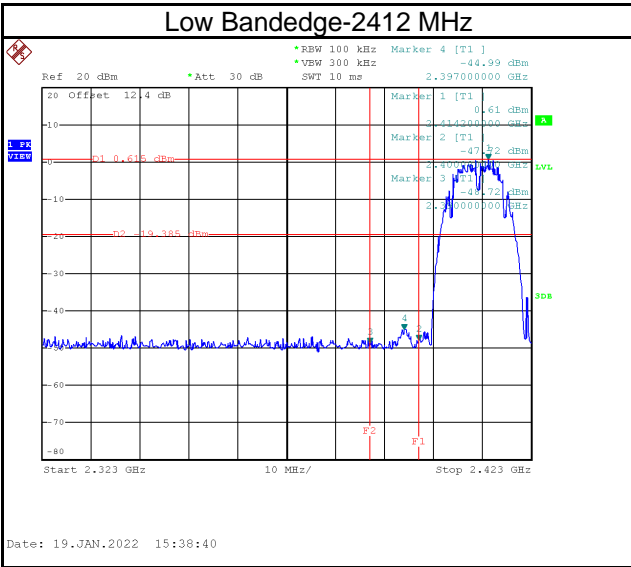
Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2422	-16.02	5.96	Pass
2437	-15.24	5.96	Pass
2452	-14.20	5.96	Pass

APPENDIX G ANTENNA CONDUCTED SPURIOUS EMISSIONS

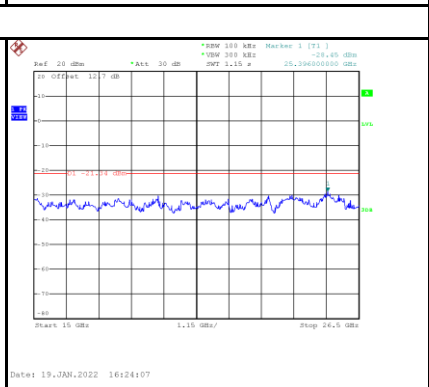
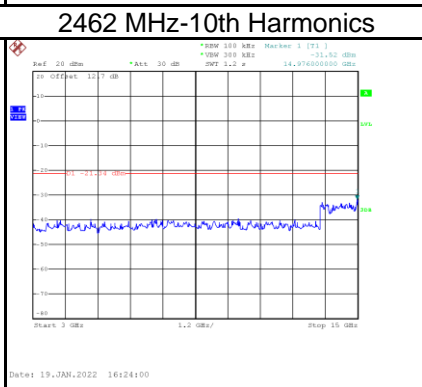
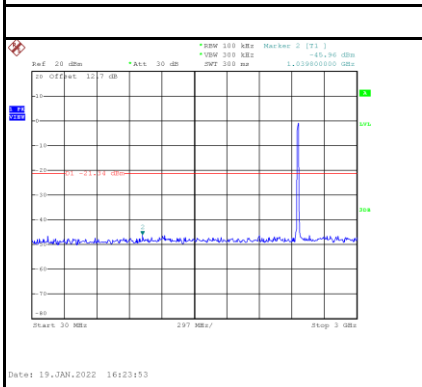
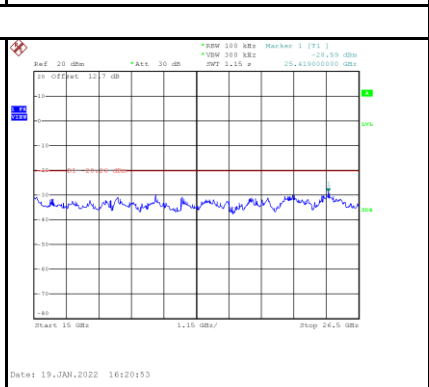
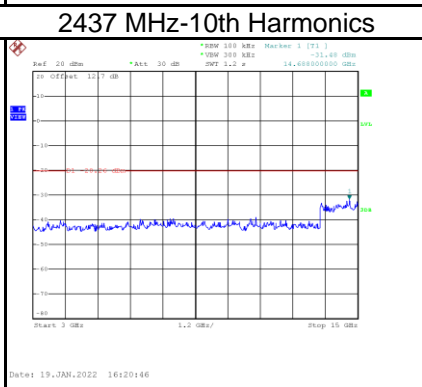
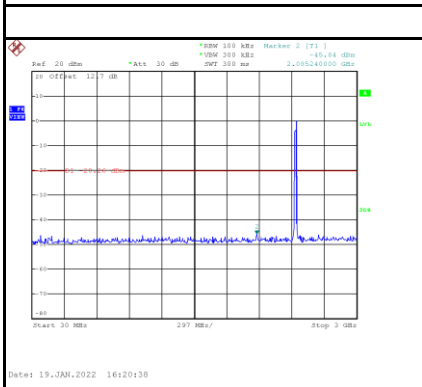
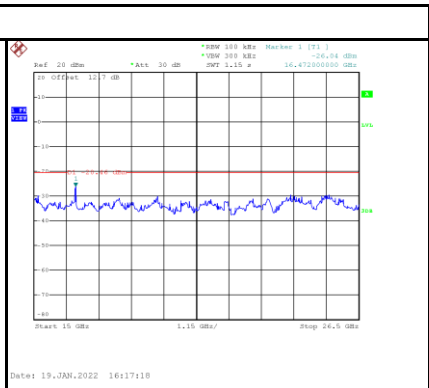
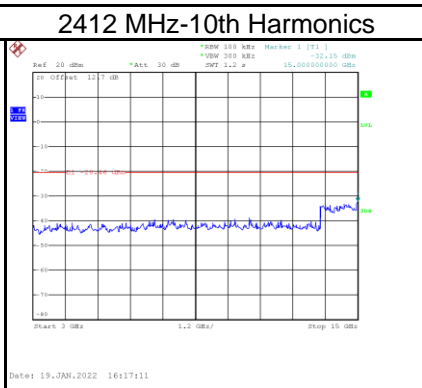
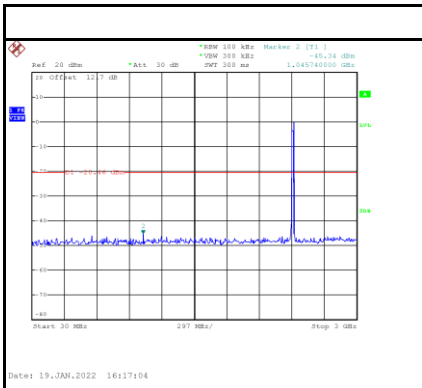
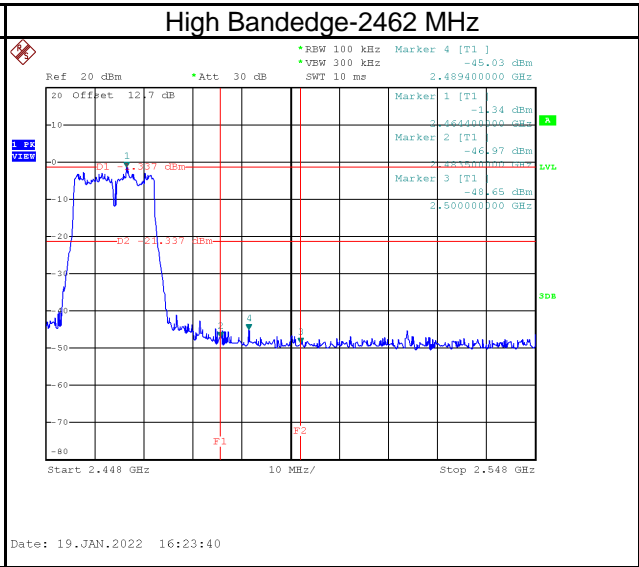
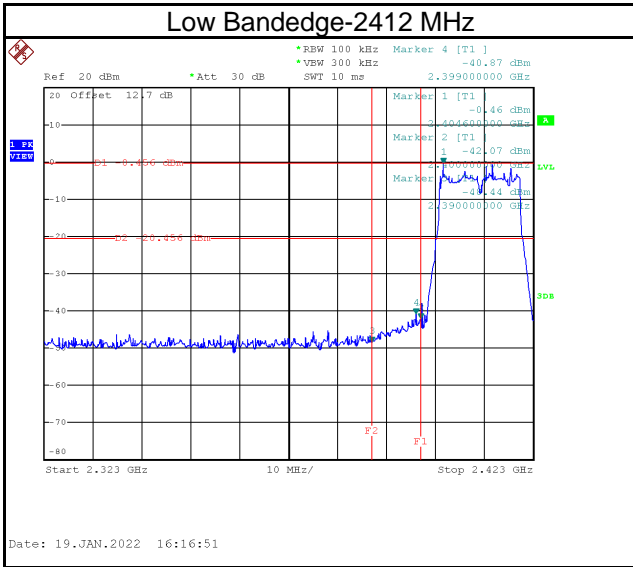
Test Mode | IEEE 802.11b Antenna_Aux Antenna



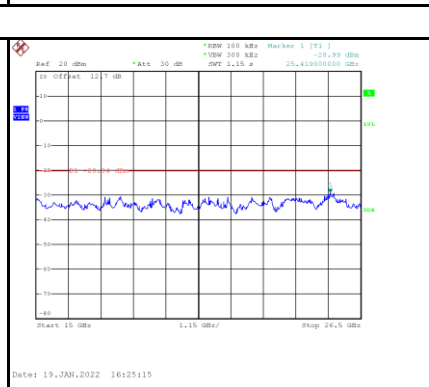
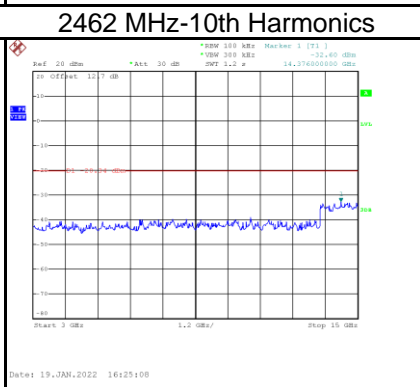
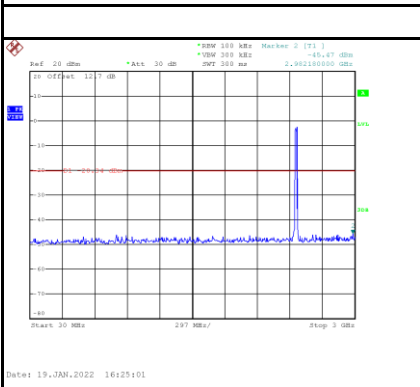
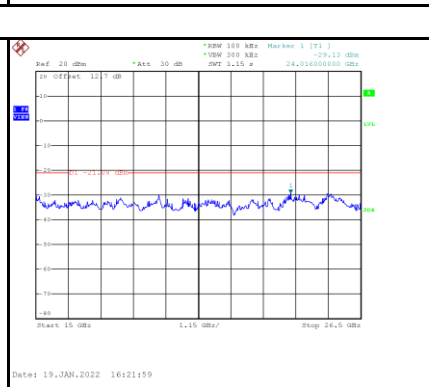
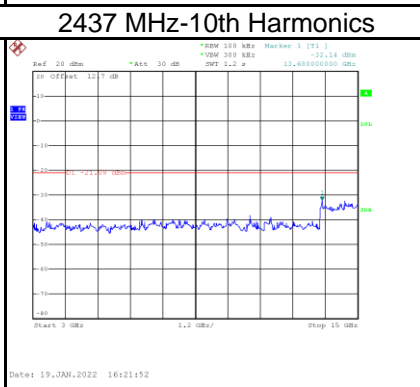
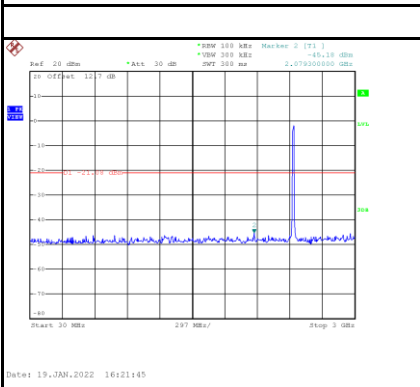
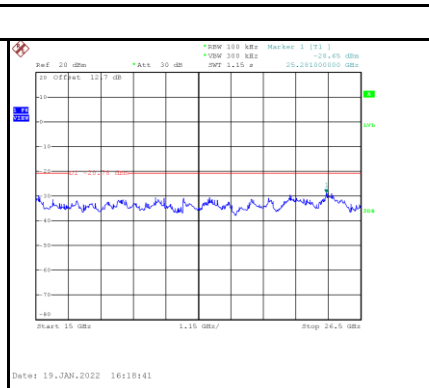
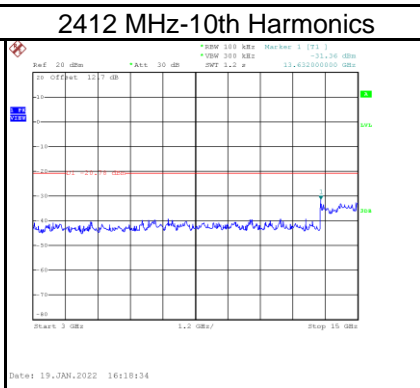
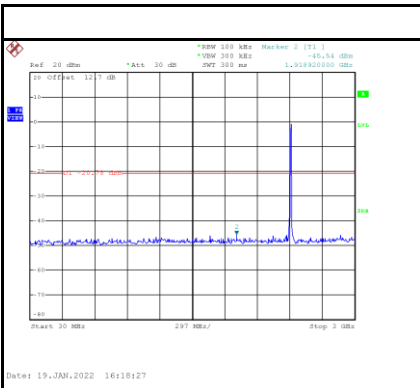
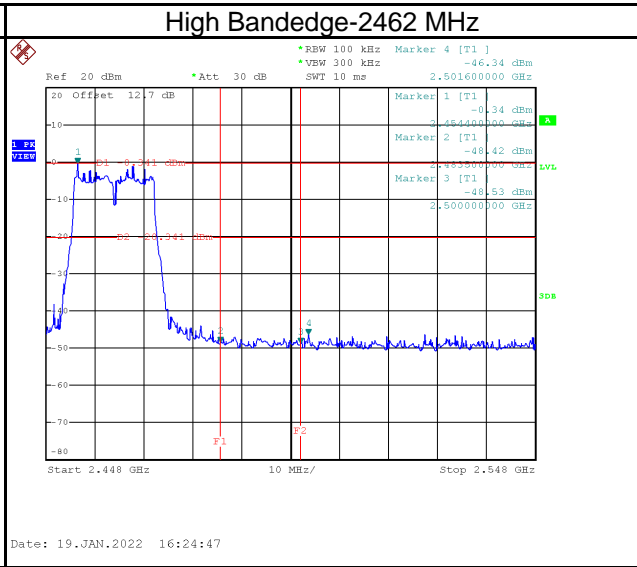
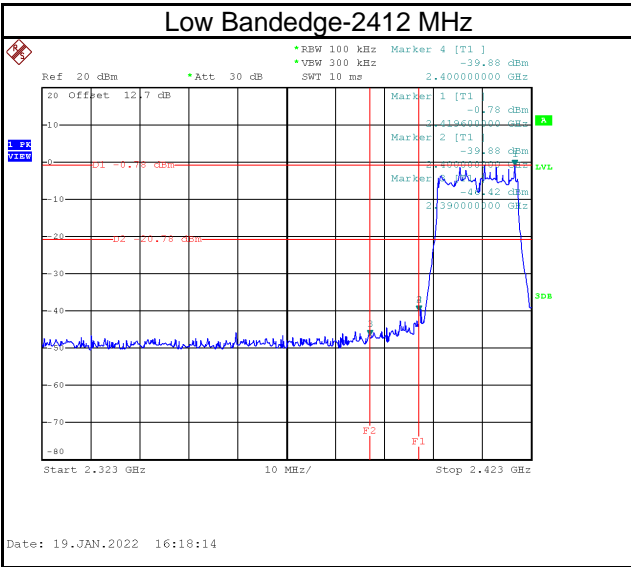
Test Mode | IEEE 802.11b Antenna_Main Antenna



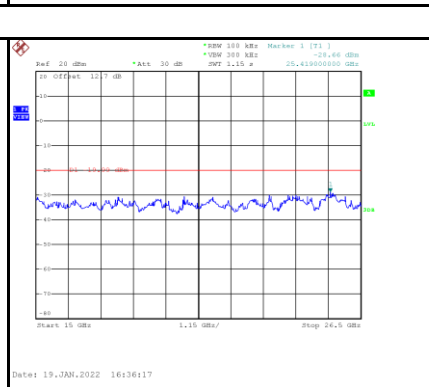
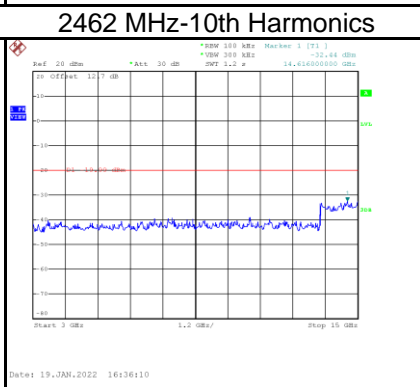
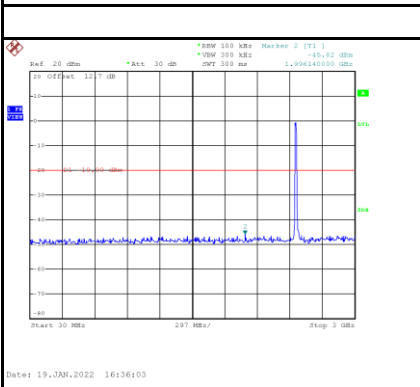
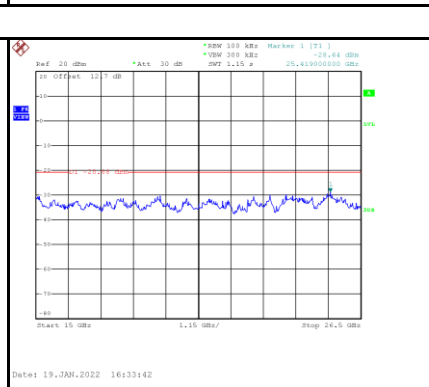
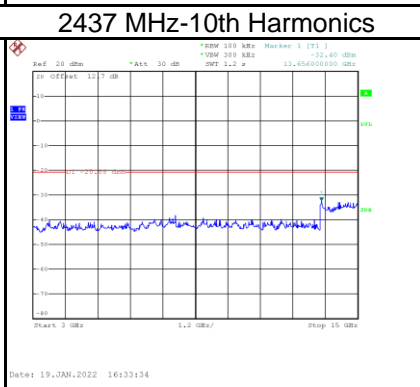
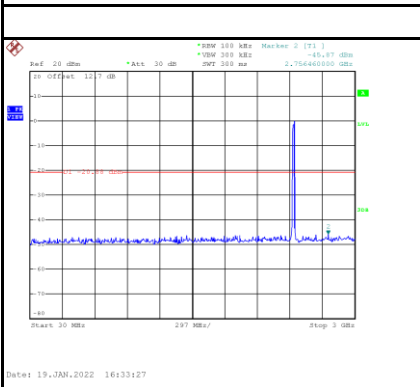
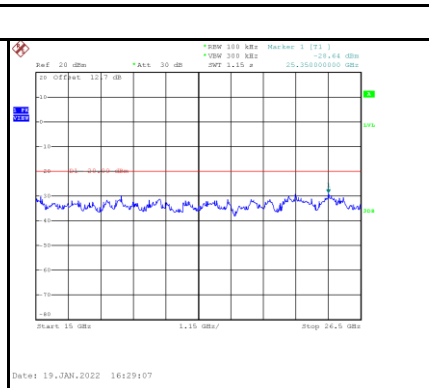
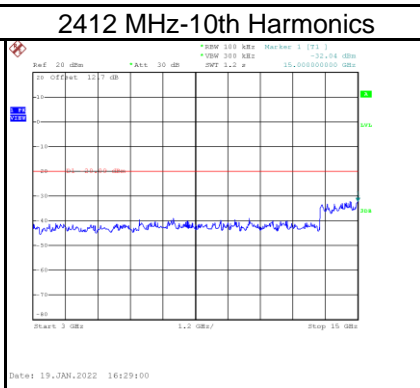
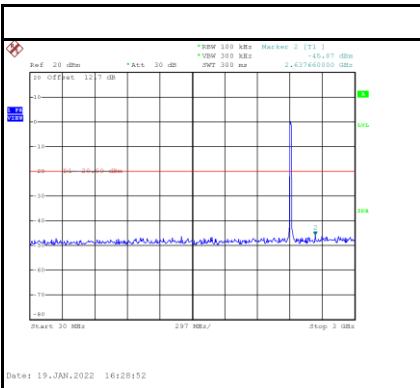
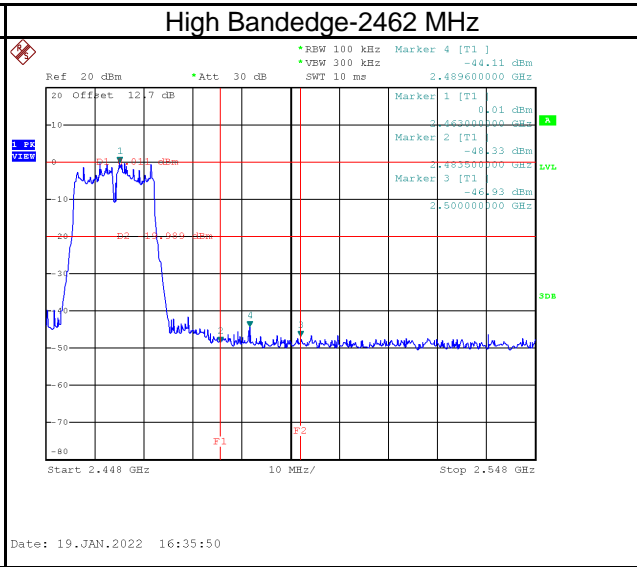
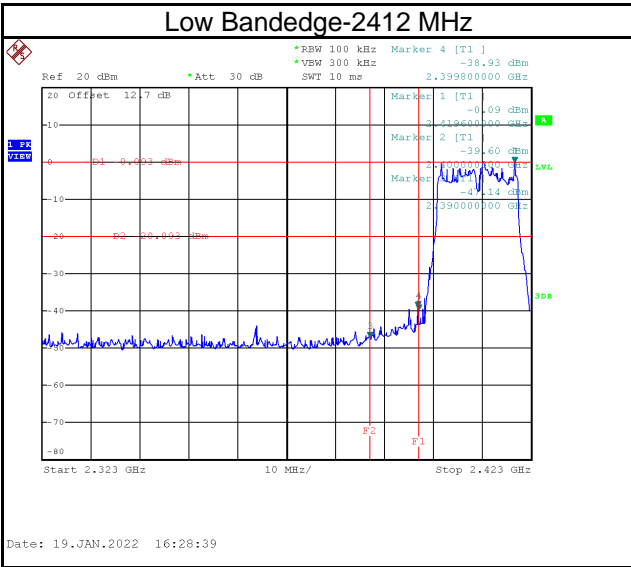
Test Mode | IEEE 802.11g_Aux Antenna



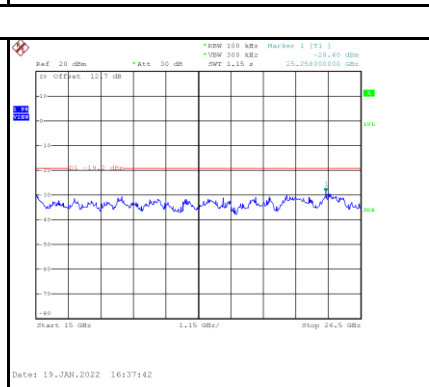
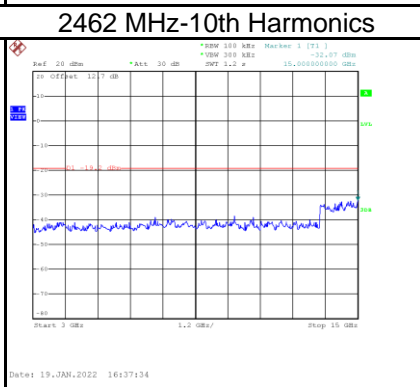
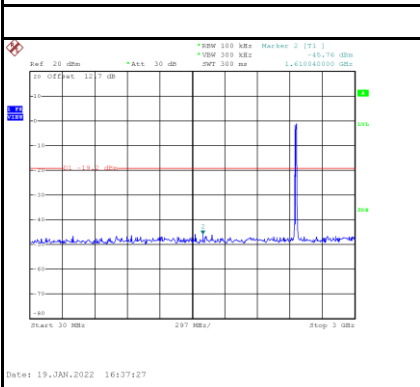
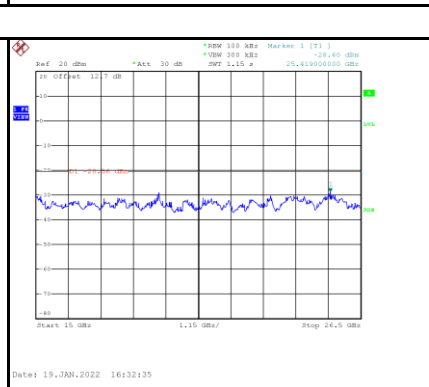
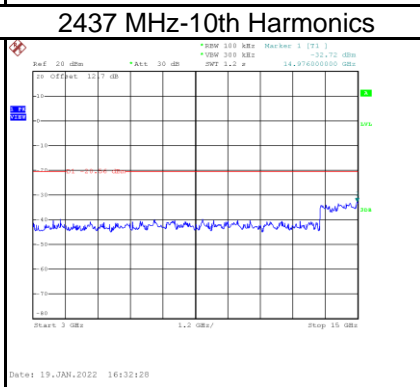
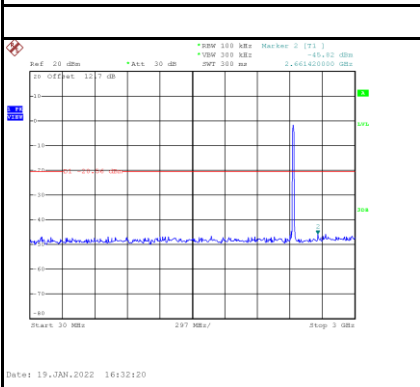
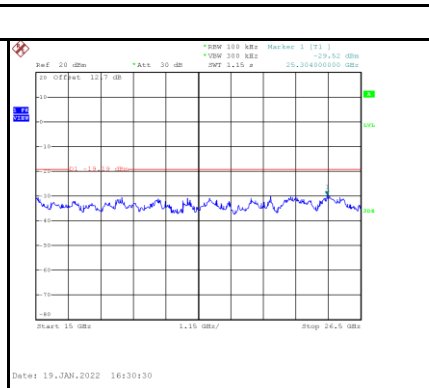
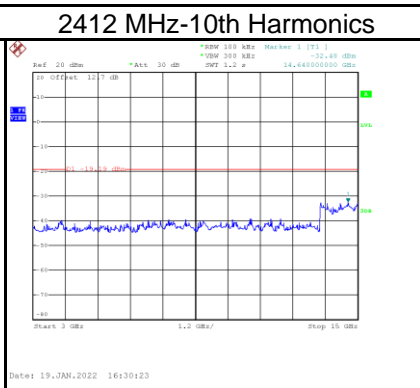
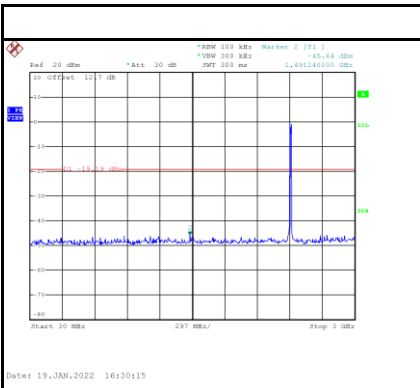
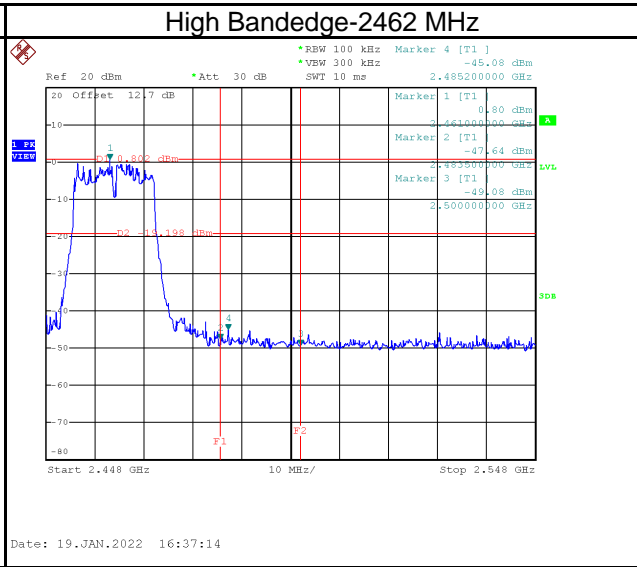
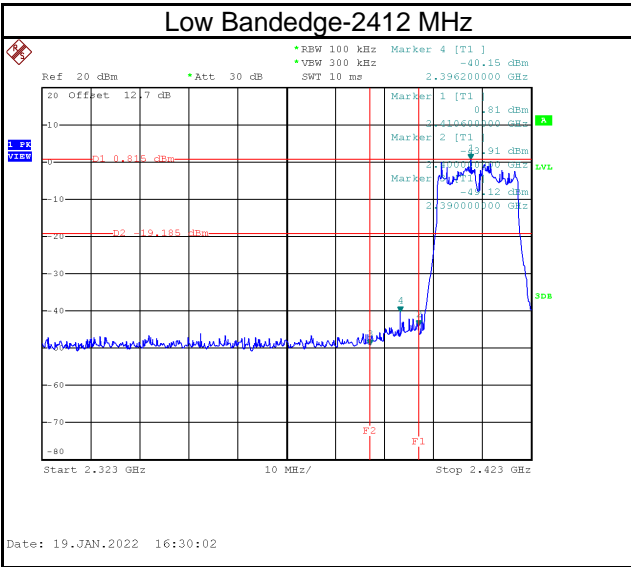
Test Mode | IEEE 802.11g_Main Antenna



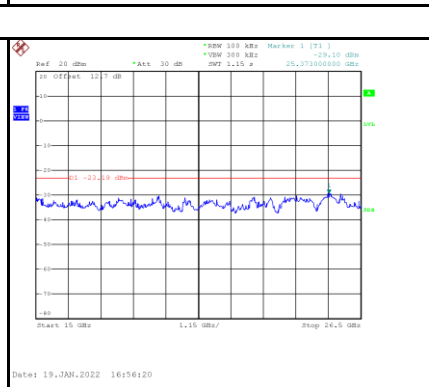
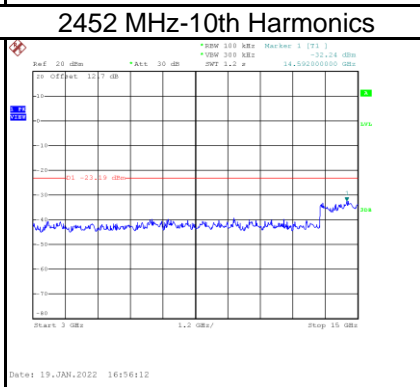
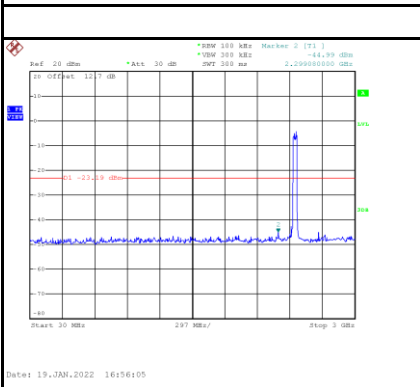
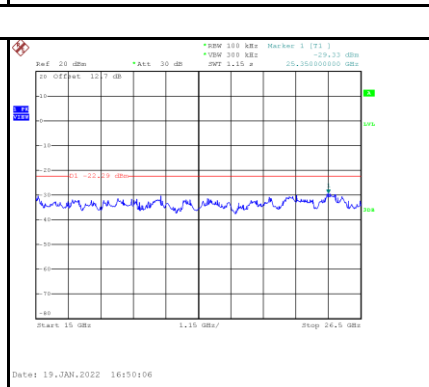
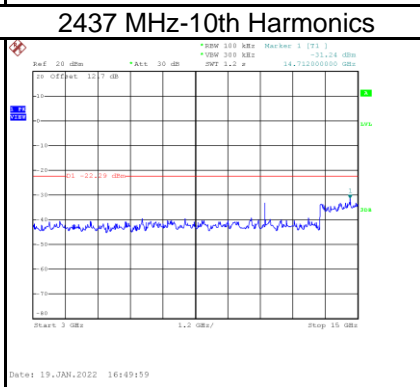
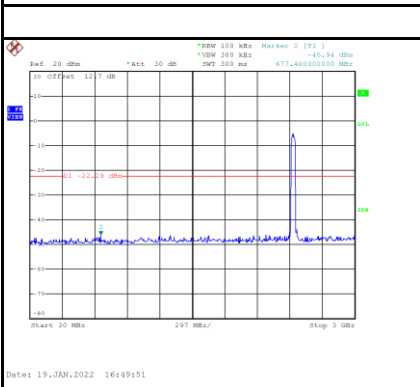
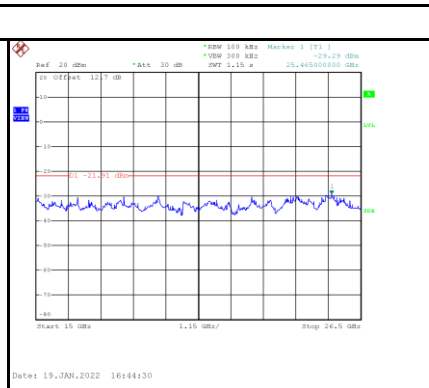
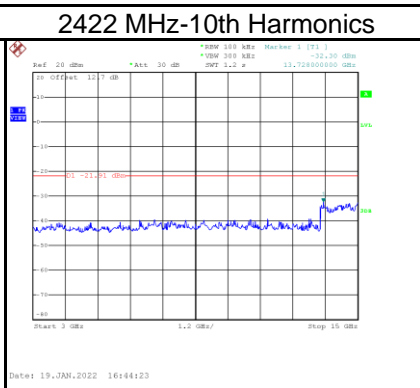
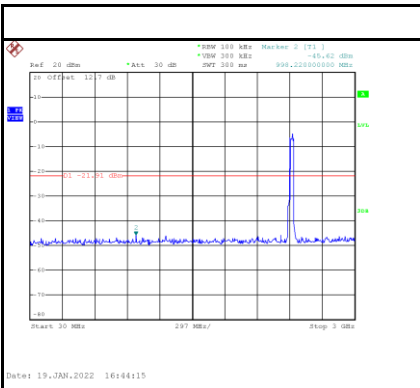
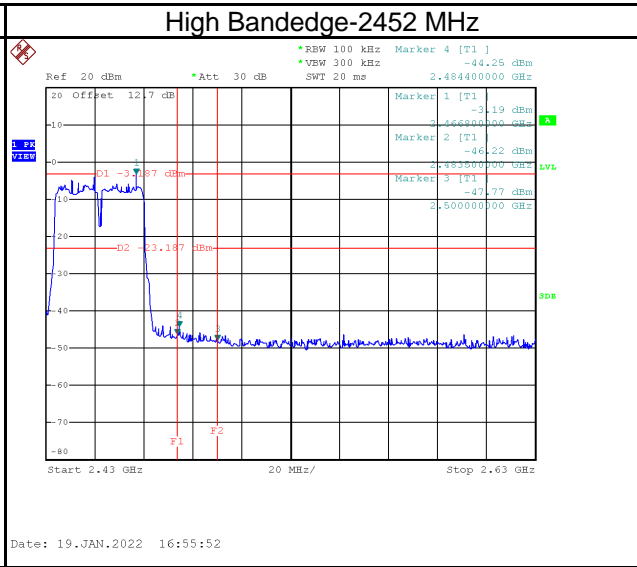
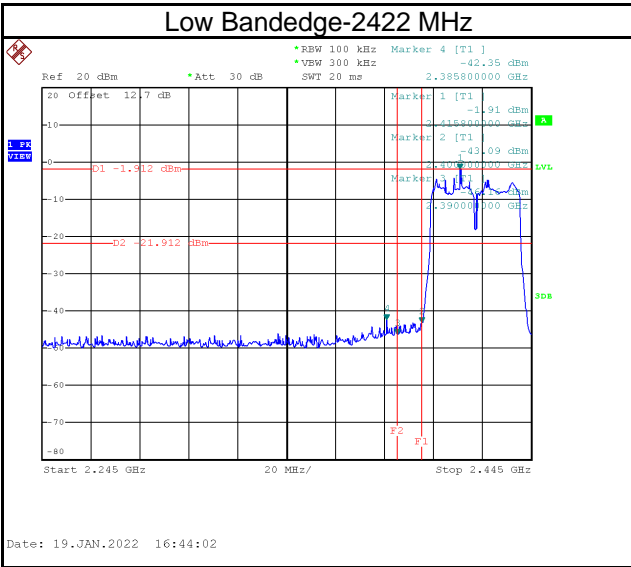
Test Mode | IEEE 802.11n (HT20)_Aux Antenna



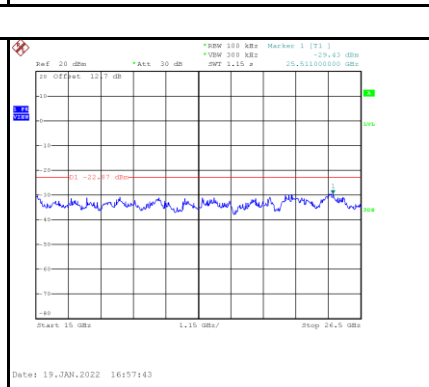
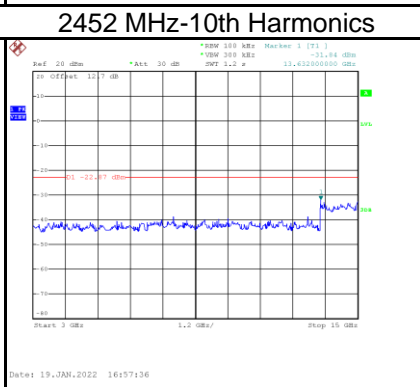
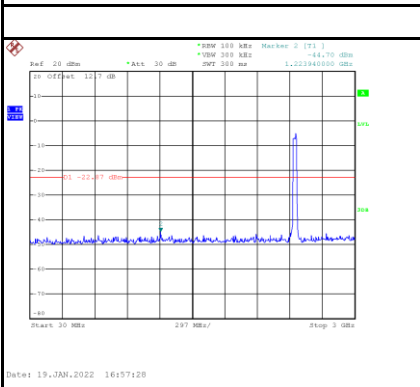
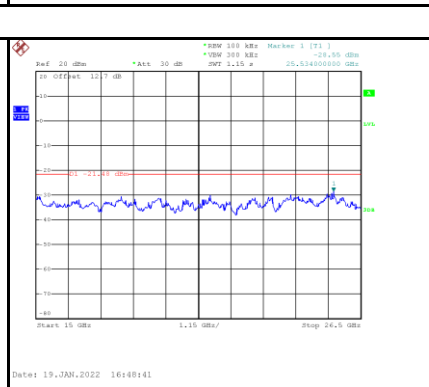
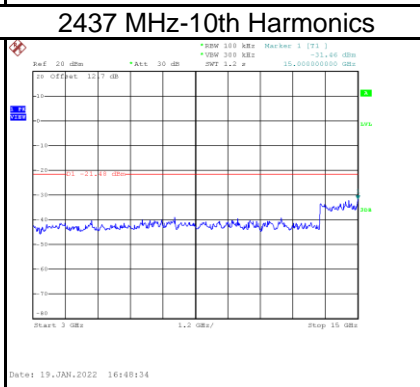
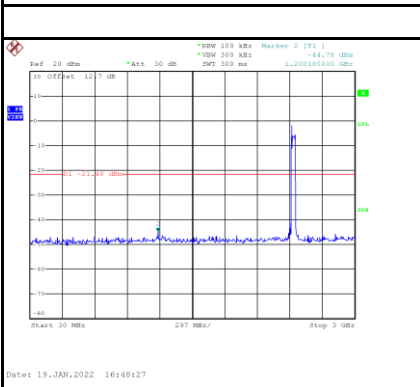
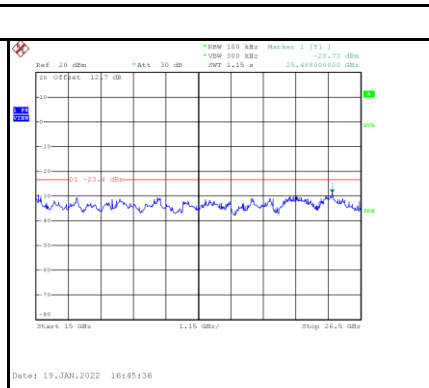
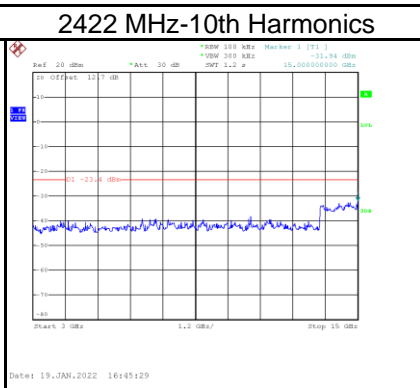
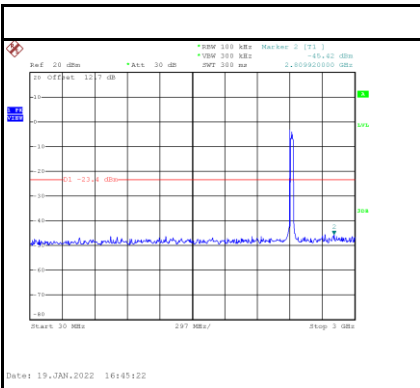
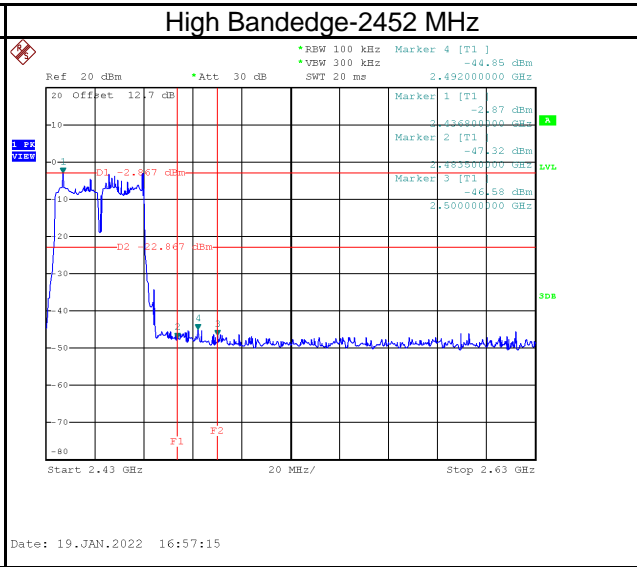
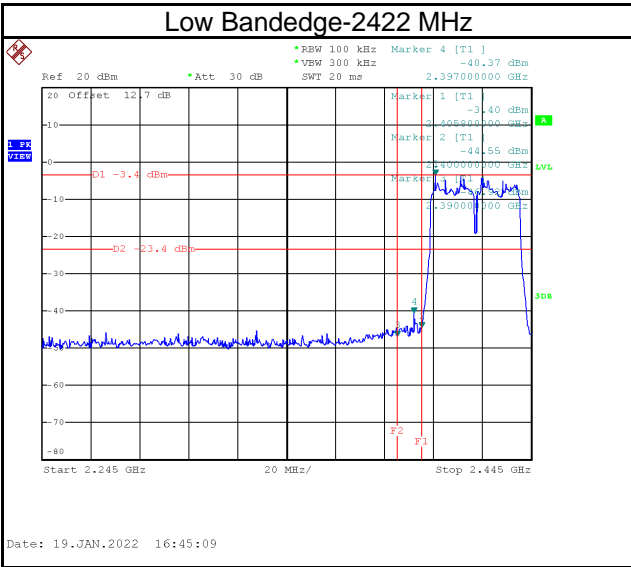
Test Mode | IEEE 802.11n (HT20)_Main Antenna



Test Mode | IEEE 802.11n (HT40)_Aux Antenna



Test Mode | IEEE 802.11n (HT40)_Main Antenna



End of Test Report