FCC Radio Test Report

FCC ID: 2AXJ4EAP660HDV2

Report No.	:	eLab-FCCP-3-2308G050
Equipment	:	AX3600 Ceiling Mount Wi-Fi 6 Access Point
Model Name	:	EAP660 HD
Brand Name	:	tp-link
Applicant	:	TP-Link Corporation Limited
Address	:	Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hongkong
Manufacturer	:	TP-Link Corporation Limited
Address	:	Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hongkong
Radio Function	:	RLAN 5 GHz (U-NII 1, U-NII 3)
FCC Rule Part(s)	:	FCC CFR Title 47, Part 15, Subpart E (15.407)
Measurement Procedure(s)	:	ANSI C63.10-2013
Date of Receipt	:	2023/8/9
Date of Test	:	2023/9/4 ~ 2023/10/19
Issued Date	:	2023/11/23

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

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Declaration

eLab 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).

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

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eLab 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
eLab-FCCP-3-2308G050	R00	Original Report.	2023/11/7	Invalid
eLab-FCCP-3-2308G050	R01	Updated the laboratory address in first page.	2023/11/23	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Result	Remark
15.207	AC Power Line Conducted Emissions	Pass	------
15.205 15.209 15.407(b)	Radiated Emissions	Pass	------
15.407(a) 15.407(e)	Bandwidth	Pass	------
15.407(a)	Output Power	Pass	------
15.407(a)	Power Spectral Density	Pass	------
15.407(g)	Frequency Stability	Pass	**NOTE (4)**
15.203	Antenna Requirement	Pass	------
15.407(c)	Automatically Discontinue Transmission	Pass	**NOTE (3)**

NOTE:
(1) ”N/A” denotes test is not applicable in this Test Report.
(2) The report format version is FR15EWL5_V1.0
(3) The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.
(4) The frequency stability test is declared by customer.

1.1 TEST FACILITY

The test facilities used to collect the test data in this report:

No.64, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
The test sites and facilities are covered under FCC RN: 681248 and DN: TW4045.
☒ C01 ☒ CB01 ☒ TR01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **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 eLab 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)
C01	CISPR	150 kHz ~ 30MHz	3.44

B. Radiated emissions test :

Test Site	Measurement Frequency Range	U,(dB)
CB01	0.03 GHz ~ 0.2 GHz	4.4417
	0.2 GHz ~ 1 GHz	4.5567
	1 GHz ~ 6 GHz	3.9930
	6 GHz ~ 18 GHz	4.4555
	18 GHz ~ 26 GHz	3.8333
	26 GHz ~ 40 GHz	3.8241

C. Conducted test :

Test Item	U,(dB)
Occupied Bandwidth	0.5332
Output power	0.3669
Power Spectral Density	0.6590
Conducted Spurious emissions	0.5416
Conducted Band edges	0.5335
Frequency Stability	0.5333

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

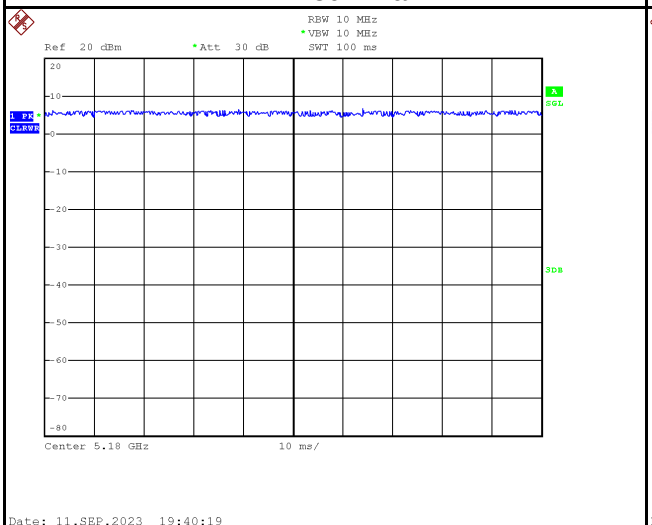
Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	25 °C, 45 %	AC 120V	Hunter Chiang
Radiated emissions below 1 GHz	Refer to data	AC 120V	Hunter Chiang
Radiated emissions above 1 GHz	Refer to data	AC 120V	Hunter Chiang
Bandwidth	24 °C, 46 %	AC 120V	Hunter Chiang
Output Power	24 °C, 46 %	AC 120V	Hunter Chiang
Power Spectral Density	24 °C, 46 %	AC 120V	Hunter Chiang

1.4 DUTY CYCLE

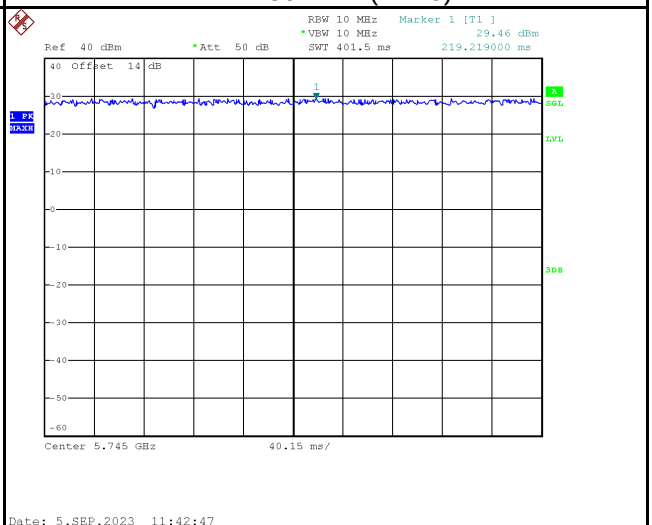
If duty cycle is ≥ 98 %, duty factor is not required.
If duty cycle is < 98 %, duty factor shall be considered.

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 802.11a	1.000	1	1.000	1.000	100.00%	0.00
IEEE 802.11n (HT20)	1.000	1	1.000	1.000	100.00%	0.00
IEEE 802.11n (HT40)	1.000	1	1.000	1.000	100.00%	0.00
IEEE 802.11ac (VHT20)	1.000	1	1.000	1.000	100.00%	0.00
IEEE 802.11ac (VHT40)	1.000	1	1.000	1.000	100.00%	0.00
IEEE 802.11ac (VHT80)	1.000	1	1.000	1.000	100.00%	0.00
IEEE 802.11ax(HE20)	1.000	1	1.000	1.000	100.00%	0.00
IEEE 802.11ax(HE40)	1.000	1	1.000	1.000	100.00%	0.00
IEEE 802.11ax(HE80)	1.000	1	1.000	1.000	100.00%	0.00

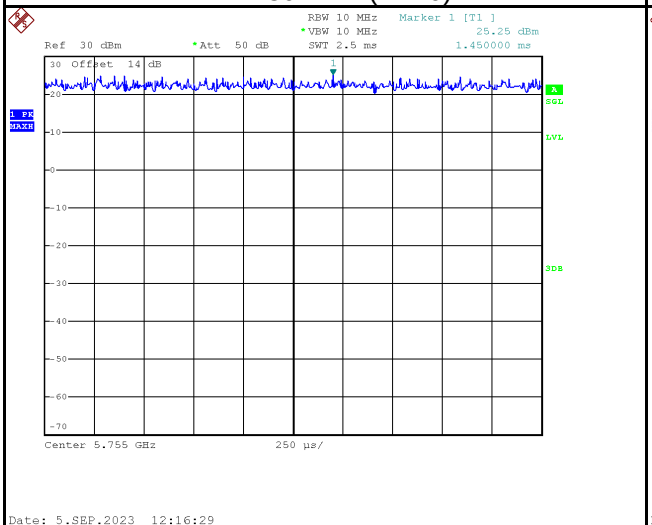
IEEE 802.11a



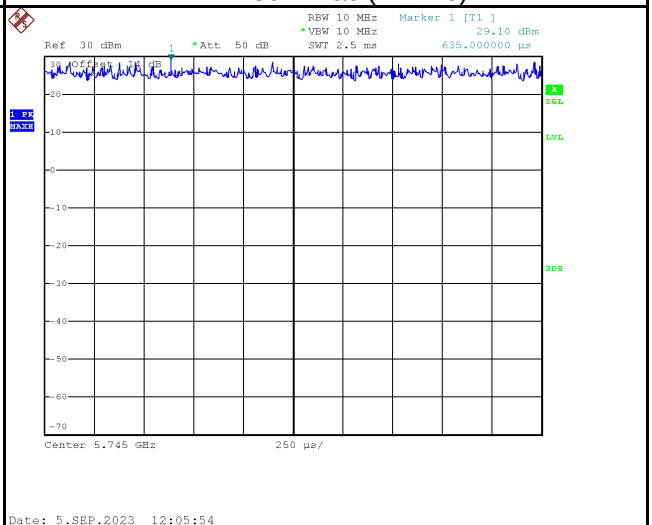
IEEE 802.11n (HT20)



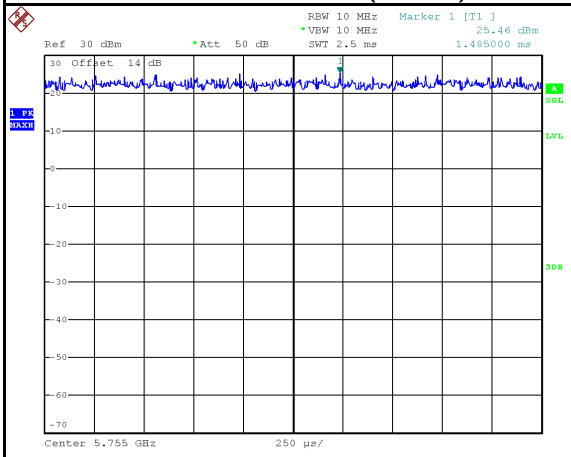
IEEE 802.11n (HT40)



IEEE 802.11ac (VHT20)



IEEE 802.11ac (VHT40)



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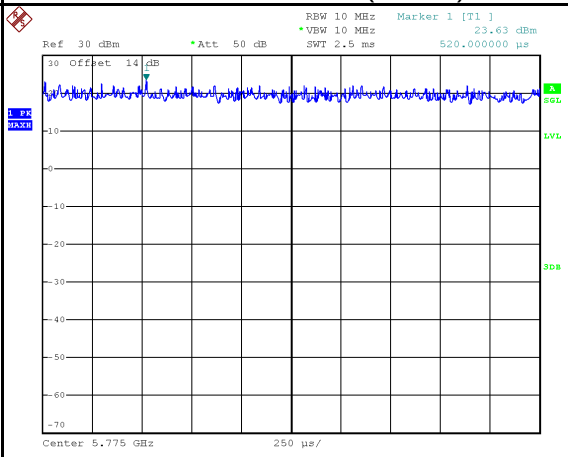
IEEE 802.11ac (VHT80)



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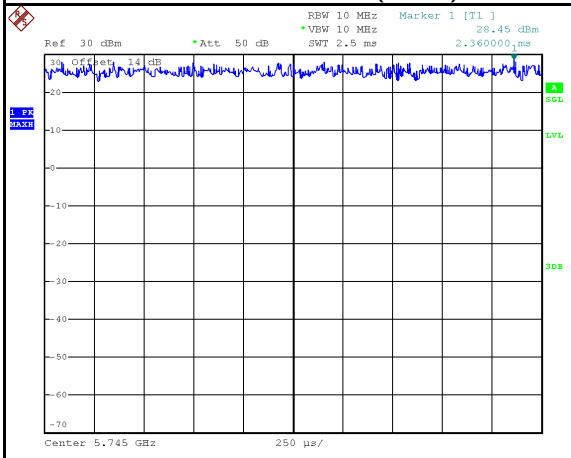
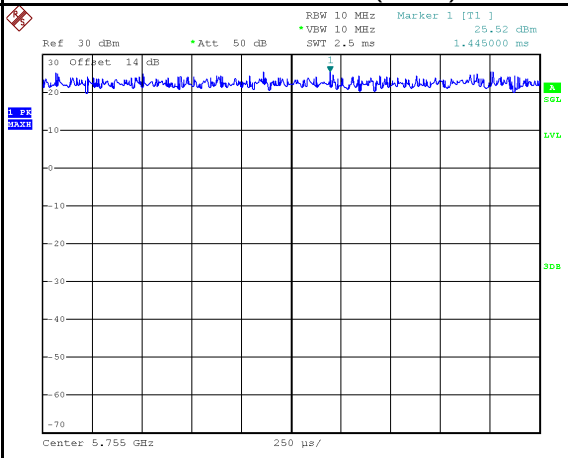
IEEE 802.11ax (HE20)



Date: 5.SEP.2023 12:41:10

IEEE 802.11ax (HE40)



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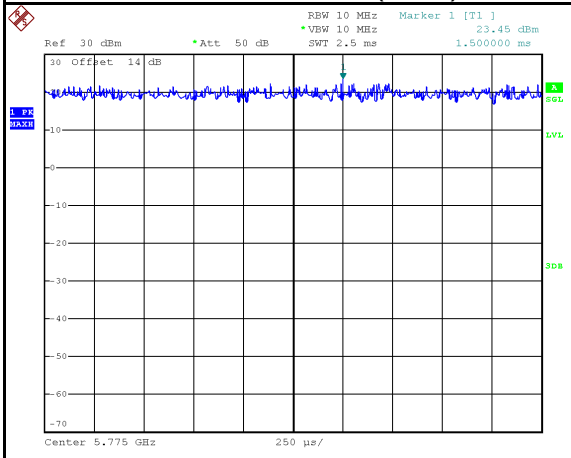
IEEE 802.11ax (HE80)



Date: 5.SEP.2023 13:57:27

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	AX3600 Ceiling Mount Wi-Fi 6 Access Point
Model Name	EAP660 HD
Brand Name	tp-link
Serial Number	N/A
Power Source	1# DC Voltage supplied from AC adapter. Model: T120200-2B4 2# DC Voltage supplied from PoE adapter.(Support unit)
Power Rating	1# I/P: 100-240V~ 50/60Hz 0.8A O/P: 12.0V ⎓ 2.0A 2# 802.3at PoE: 42.5-57V⎓0.6A
Operation Band	UNII-1: 5150 MHz to 5250 MHz UNII-3: 5725 MHz to 5850 MHz
Operation Frequency	UNII-1: 5180 MHz to 5240 MHz UNII-3: 5745 MHz to 5825 MHz
Modulation Technology	802.11a/n/ac: OFDM 802.11ax: OFDMA
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6 Mbps 802.11n: Up to 600 Mbps 802.11ac: Up to 1733.2 Mbps 802.11ax: Up to 2402 Mbps
Output Power Max. for UNII-1_Non Beamforming	IEEE 802.11a: 28.24 dBm (0.6668 W) IEEE 802.11n (HT20): 28.20 dBm (0.6607 W) IEEE 802.11n (HT40): 28.34 dBm (0.6823 W) IEEE 802.11ac (VHT20): 28.33 dBm (0.6808 W) IEEE 802.11ac (VHT40): 28.27 dBm (0.6714 W) IEEE 802.11ac (VHT80): 22.15 dBm (0.1641 W) IEEE 802.11ax (HE20): 28.35 dBm (0.6839 W) IEEE 802.11ax (HE40): 26.26 dBm (0.4227 W) IEEE 802.11ax (HE80): 20.30 dBm (0.1072 W)
Output Power Max. for UNII-1_Beamforming	IEEE 802.11n (HT20): 27.64 dBm (0.5808 W) IEEE 802.11n (HT40): 27.65 dBm (0.5821W) IEEE 802.11ac (VHT20): 27.70 dBm (0.5888 W) IEEE 802.11ac (VHT40): 27.54 dBm (0.5675 W) IEEE 802.11ac (VHT80): 21.71 dBm (0.1483 W) IEEE 802.11ax (HE20): 27.68 dBm (0.5861 W) IEEE 802.11ax (HE40): 26.12 dBm (0.4093 W) IEEE 802.11ax (HE80): 20.20 dBm (0.1047 W)
Output Power Max. for UNII-3_Non Beamforming	IEEE 802.11a: 27.96 dBm (0.6252 W) IEEE 802.11n (HT20): 27.92 dBm (0.6194 W) IEEE 802.11n (HT40): 27.98 dBm (0.6281 W) IEEE 802.11ac (VHT20): 28.07 dBm (0.6412 W) IEEE 802.11ac (VHT40): 27.93 dBm (0.6209 W) IEEE 802.11ac (VHT80): 27.86 dBm (0.6109 W) IEEE 802.11ax (HE20): 27.98 dBm (0.6281 W) IEEE 802.11ax (HE40): 27.91 dBm (0.6180 W) IEEE 802.11ax (HE80): 27.85 dBm (0.6095 W)
Output Power Max. for UNII-3_Beamforming	IEEE 802.11n (HT20): 27.77 dBm (0.5984 W) IEEE 802.11n (HT40): 27.84 dBm (0.6081 W) IEEE 802.11ac (VHT20): 27.87 dBm (0.6124 W) IEEE 802.11ac (VHT40): 27.82 dBm (0.6053 W) IEEE 802.11ac (VHT80): 27.73 dBm (0.5929 W) IEEE 802.11ax (HE20): 27.79 dBm (0.6012 W) IEEE 802.11ax (HE40): 27.84 dBm (0.6081 W) IEEE 802.11ax (HE80): 27.77 dBm (0.5984 W)

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:

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20) IEEE 802.11ax (HE20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40) IEEE 802.11ax (HE40)		IEEE 802.11ac (VHT80) IEEE 802.11ax (HE80)	
UNII-1		UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20) IEEE 802.11ax (HE20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40) IEEE 802.11ax (HE40)		IEEE 802.11ac (VHT80) IEEE 802.11ax (HE80)	
UNII-3		UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

(3) Table for Filed Antenna:

Ant.	Brand Name	Model Name	Type	Frequency (MHz)	Gain (dBi)
1	tp-link	N/A	PIFA	5150-5250& 5725-5850	2
2	tp-link	N/A	PIFA		2
3	tp-link	N/A	PIFA		2
4	tp-link	N/A	PIFA		2

Note:

1) This EUT supports CDD, and all antennas have the same gain, Directional gain = G_{ANT}+Array Gain.
For power measurements, Array Gain=0dB (N_{ANT}≤4), so the Directional gain=2dBi.
For power spectral density measurements, N_{ANT}=4, N_{SS} = 1.
So the Directional gain=G_{ANT}+Array Gain=G_{ANT}+10log(N_{ANT}/N_{SS})dBi=2+10log(4/1)dBi=8.02dBi.
Then, the UNII-1 power spectral density limit is 17-(8.02-6)=14.98dBi, the UNII-3 power spectral density limit is 30-(8.02-6)=27.98Bi.

2) The beamforming gain is 6 dBi, so the Directional gain=2+6=8dBi.

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

(5) Table for Antenna Configuration:

Non Beamforming:

Operating Mode / TX Mode	4TX
IEEE 802.11a	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11n(HT20)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11n(HT40)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11ac(VHT20)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11ac(VHT40)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11ac(VHT80)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11ax(HE20)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11ax(HE40)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11ax(HE80)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)

Beamforming:

Operating Mode / TX Mode	4TX
IEEE 802.11n(HT20)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11n(HT40)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11ac(VHT20)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11ac(VHT40)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11ac(VHT80)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11ax(HE20)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11ax(HE40)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11ax(HE80)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)

2.2 TEST MODES

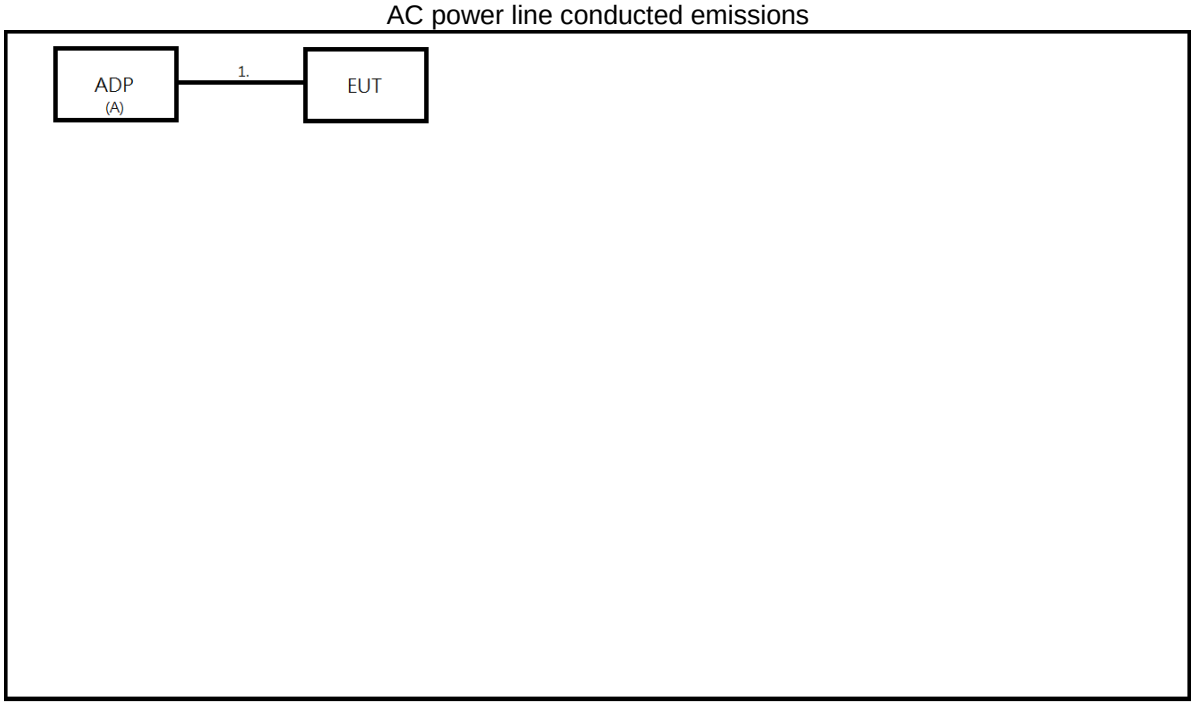
Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Transmitter Radiated Emissions (below 1GHz)	TX Mode_IEEE 802.11ax (HE20)	48	-
Transmitter Radiated Emissions (above 1GHz)	TX Mode_IEEE 802.11a	36/48, 149/165	Bandedge
	TX Mode_IEEE 802.11n (HT20) TX Mode_IEEE 802.11ax (HE20)		
	TX Mode_IEEE 802.11n (HT40) TX Mode_IEEE 802.11ax (HE40)	38/46, 151/159	
	TX Mode_IEEE 802.11ac (VHT80) TX Mode_IEEE 802.11ax (HE80)	42, 155	
	TX Mode_IEEE 802.11a	36/40/48 149/157/165	Harmonic
	TX Mode_IEEE 802.11n (HT20) TX Mode_IEEE 802.11ax (HE20)		
	TX Mode_IEEE 802.11n (HT40) TX Mode_IEEE 802.11ax (HE40)	38/46/ 151/159	
	TX Mode_IEEE 802.11ac (VHT80) TX Mode_IEEE 802.11ax (HE80)	42, 155	
Bandwidth & Power Spectral Density	TX Mode_IEEE 802.11a	36/40/48 149/157/165	-
	TX Mode_IEEE 802.11n (HT20) TX Mode_IEEE 802.11ax (HE20)		
	TX Mode_IEEE 802.11n (HT40) TX Mode_IEEE 802.11ax (HE40)	38/46 151/159	
	TX Mode_IEEE 802.11ac (VHT80) TX Mode_IEEE 802.11ax (HE80)	42, 155	
Output Power	TX Mode_IEEE 802.11a	36/40/48 149/157/165	-
	TX Mode_IEEE 802.11n (HT20) TX Mode_IEEE 802.11ac (VHT20) TX Mode_IEEE 802.11ax (HE20)		
	TX Mode_IEEE 802.11n (HT40) TX Mode_IEEE 802.11ac (VHT40) TX Mode_IEEE 802.11ax (HE40)	38/46/ 151/159	
	TX Mode_IEEE 802.11ac (VHT80) TX Mode_IEEE 802.11ax (HE80)	42, 155	

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, IEEE 802.11ac(VHT80) mode, IEEE 802.11ax(HE20) mode, IEEE 802.11ax(HE40) mode and IEEE 802.11ax(HE80) mode, only the worst cases are documented for other test items.
(3) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.
(4) For AC power line conducted emissions and radiated emission below 1 GHz test, the IEEE 802.11ax (HE20) channel 48 is found to be the worst case and recorded.
(5) The measurements for Output Power are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.

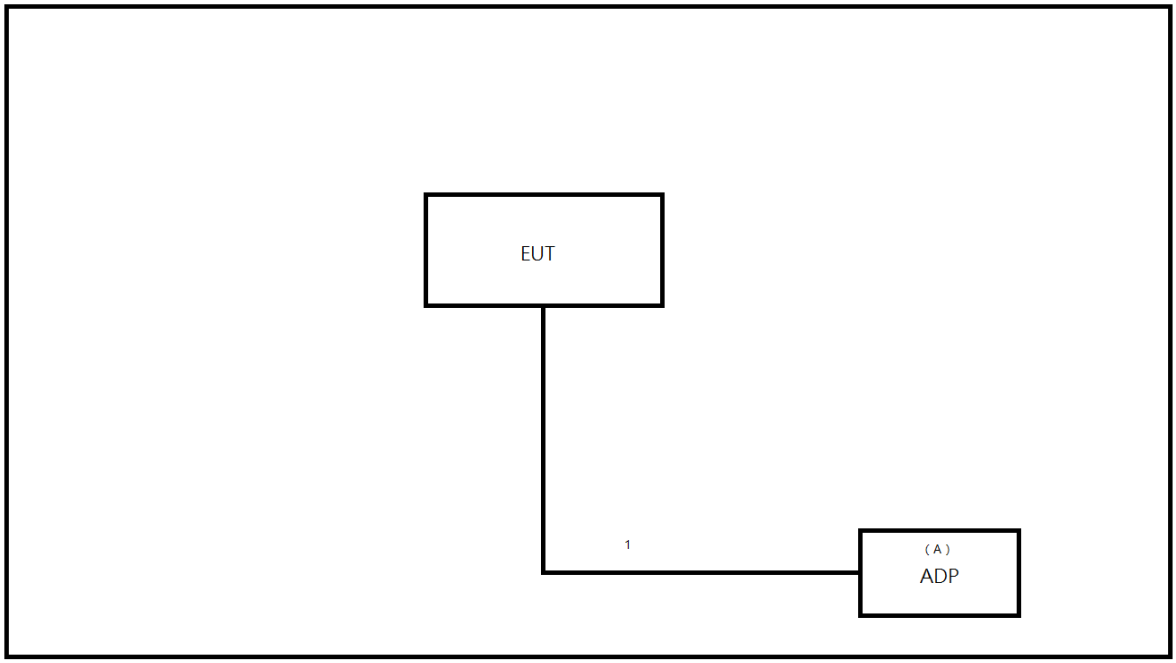
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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.	Remarks
A	ADP	tp-link	T120200-2B4	Supplied by test requester

Item	Cable Type	Ferrite Core	Length	Shielded	Remarks
1	DC Cable	NO	1.5m	NO	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.

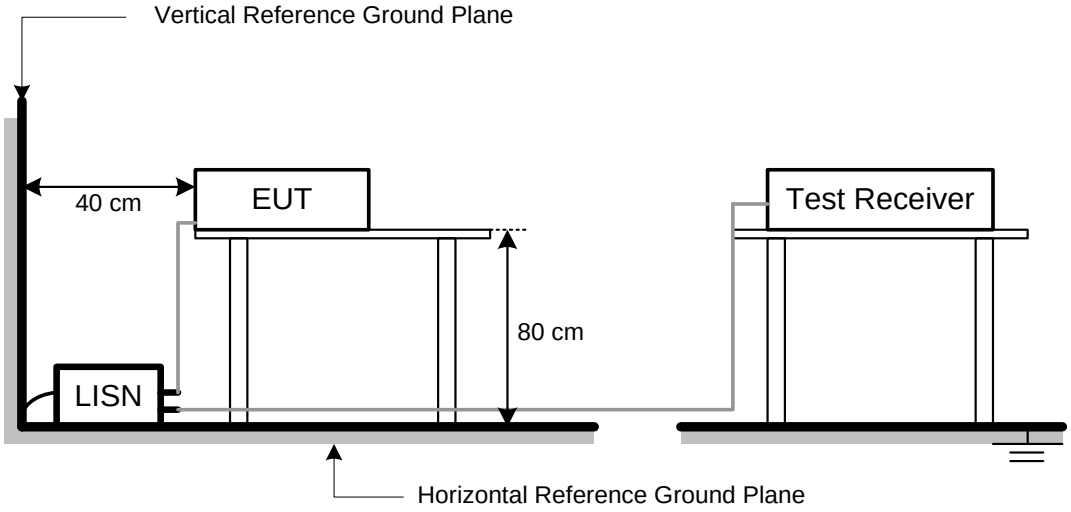
Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

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 TEST SETUP



3.4 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 UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBµV/m)
5150-5250	-27	68.3
5250-5350	-27	68.3
5470-5725	-27	68.3
5725-5850	-27 (NOTE 2)	68.3
	10 (NOTE 2)	105.3
	15.6 (NOTE 2)	110.9
	27 (NOTE 2)	122.3

NOTE:

(1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$ µV/m, where P is the eirp (Watts)

(2) According to FCC 16-24,All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(3) 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
36.23	+	-11.97	=	24.26

Measurement Value		Limit Value		Margin Level
24.26	-	40	=	-15.74

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

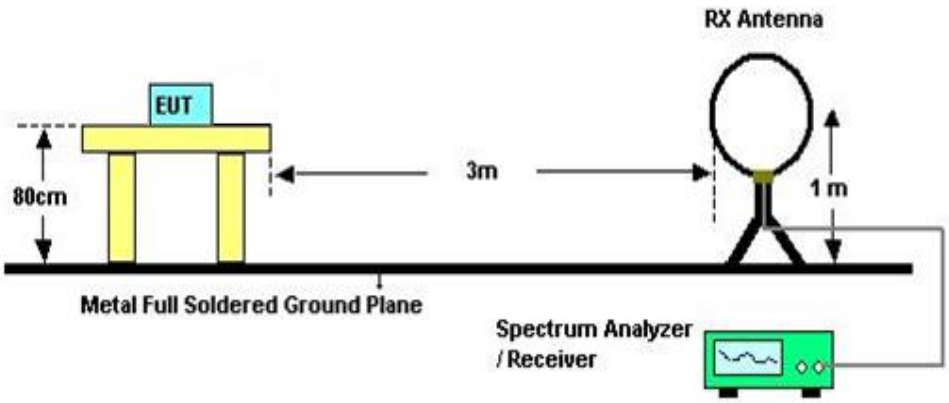
Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2 TEST PROCEDURE

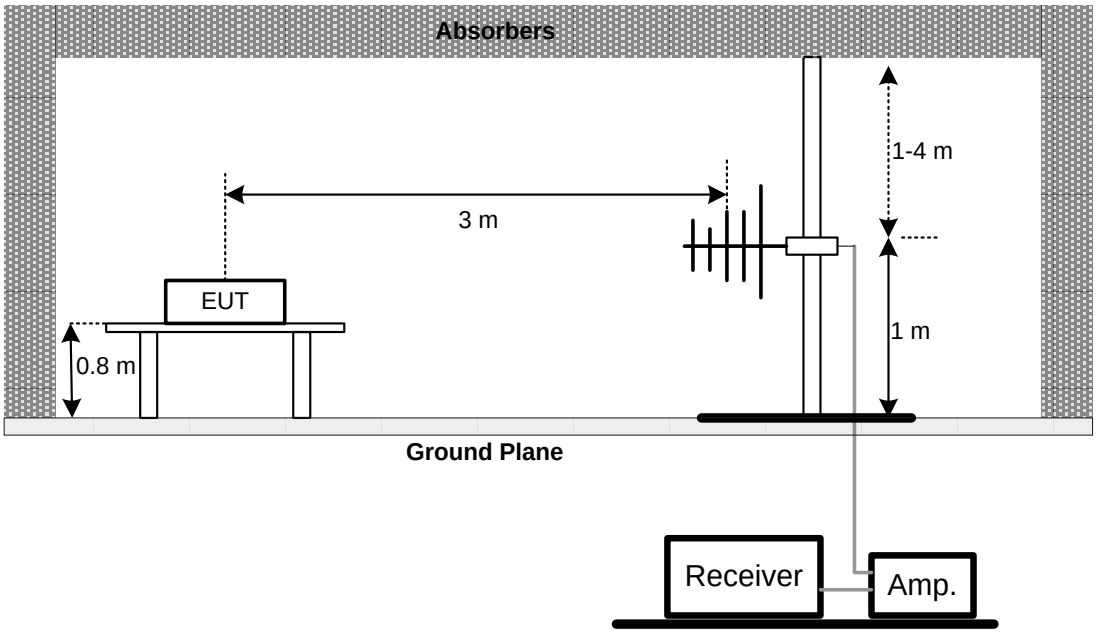
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance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

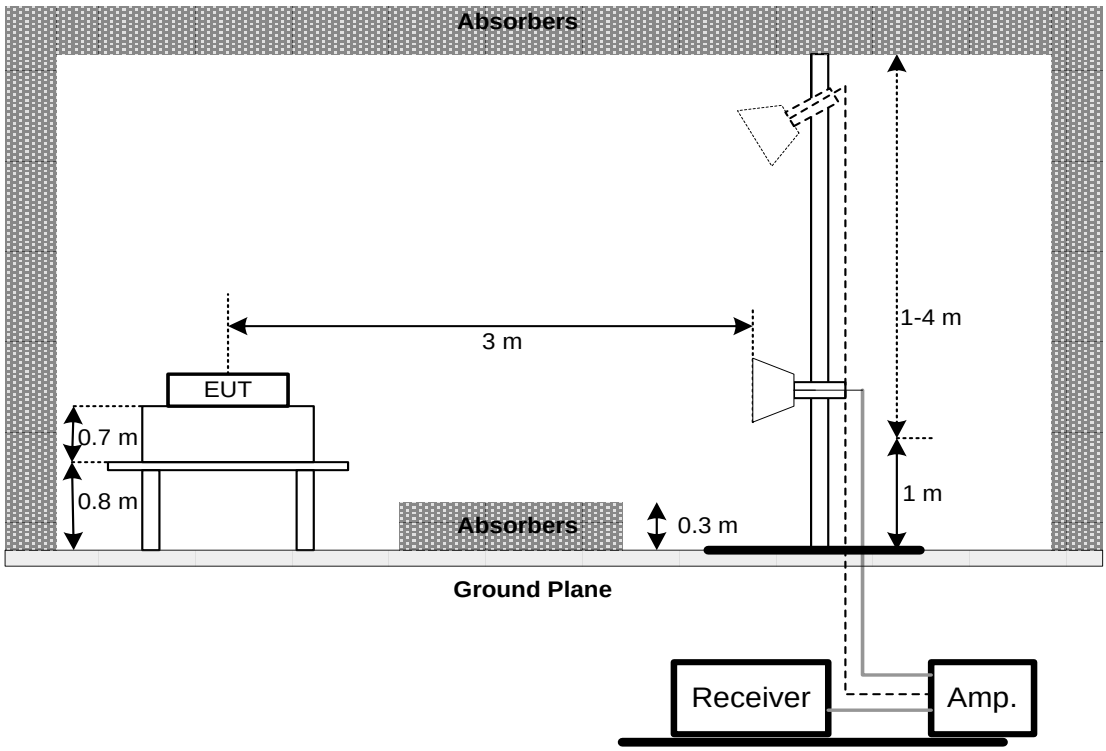
9 kHz to 30 MHz



30 MHz to 1 GHz



Above 1 GHz



4.4 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.5 TEST RESULT – BELOW 30 MHZ

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

4.6 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX B.

4.7 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 E (15.407)		
Section	Test Item	Frequency Range (MHz)
15.407(a)	26 dB Bandwidth	5150-5250
	Minimum 500 kHz 6 dB Bandwidth	5725-5850

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:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 26 dB Bandwidth
RBW	300 kHz(Bandwidth 20 MHz) 1 MHz(Bandwidth 40 MHz and 80 MHz)
VBW	1 MHz(Bandwidth 20 MHz) 3 MHz(Bandwidth 40 MHz and 80 MHz)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.3 TEST SETUP

5.4 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.5 TEST RESULT

Please refer to the APPENDIX D.

6 OUTPUT POWER TEST

6.1 LIMIT

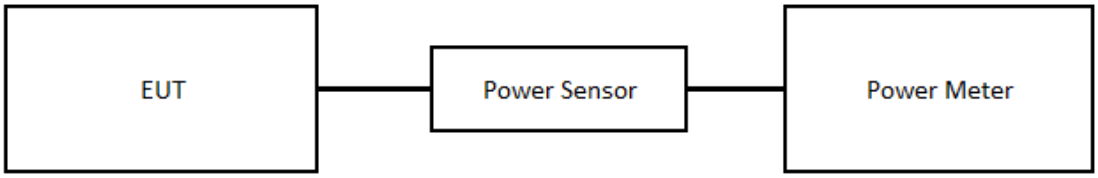
FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Maximum Output Power	Fixed:1 Watt (30 dBm) Mobile and portable: 250 mW (24 dBm)	5150-5250
		1 Watt (30dBm)	5725-5850
Note: The maximum e.i.r.p at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW(21 dBm).			

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 method of clause E. 3. a) FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
a)Method PM (Measurement using an RF average power meter):
(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied
The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
(ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in II.B.
(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
(iv) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle (e.g., 10 log (1/0.25) if the duty cycle is 25%).

6.3 TEST SETUP



6.4 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.5 TEST RESULT

Please refer to the APPENDIX E.

7 POWER SPECTRAL DENSITY

7.1 LIMIT

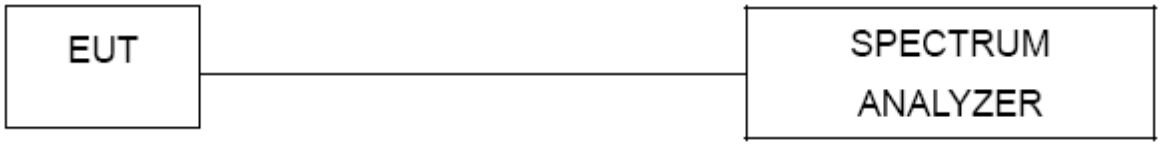
FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Power Spectral Density	Other than Mobile and portable: 17 dBm/MHz Mobile and portable: 11 dBm/MHz	5150-5250
		30 dBm/500 kHz	5725-5850

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:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1 MHz
VBW	≥ 3 MHz
Detector	RMS
Trace	Max Hold
Sweep Time	Auto

7.3 TEST SETUP



7.4 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.5 TEST RESULT

Please refer to the APPENDIX F.

8 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	101051	2024/7/21	2024/7/20
2	Test Cable	EMCI	EMCRG58-BM-BM-9000	210501	2022/12/15	2023/12/14
3	MXE EMI Receiver	Agilent	N9038A	MY54130009	2023/06/26	2024/06/25
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	EMC051845SE	980779	2022/12/19	2023/12/18
2	Preamplifier	EMCI	EMC184045SE	980512	2022/12/02	2023/12/01
3	Preamplifier	EMCI	EMC001340	980555	2022/12/05	2023/12/04
4	Test Cable	EMCI	EMCCFD400-NM-NM-8000	200343	2022/11/15	2023/11/14
5	Test Cable	EMCI	EMC105-SM-SM-3000	210118	2022/12/08	2023/12/07
6	Test Cable	EMCI	EMC105-SM-SM-7000	210117	2022/11/15	2023/11/14
7	Test Cable	EMCI	EMCCFD400-NM-NM-3300	200348	2022/11/15	2023/11/14
8	EXA Signal Analyzer	keysight	N9010A	MY56480554	2022/9/13	2023/9/12 2024/9/11
9	Loop Ant	Electro-Metrics	EMCI-LPA600	274	2023/06/28	2024/06/27
10	Horn Antenna	RFSPIN	DRH18-E	BBHA9170340	2023/02/10	2024/02/09
11	Horn Ant	Schwarzbeck	BBHA 9170D	210109A18E	2023/06/29	2024/06/28
12	Log-bicon Antenna	Schwarzbeck	VULB9168	9168-1207	2023/01/13	2024/01/12
13	6dB Attenuator	EMCI	EMCI-N-6-06	AT-N0690	2023/01/13	2024/01/12
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	FSP30	100854	2023/06/26	2024/06/25
2	EXA Signal Analyzer	keysight	N9010A	MY56480554	2023/9/12	2024/9/11

Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP30	100854	2023/06/26	2024/06/25

Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP30	100854	2023/06/26	2024/06/25

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.

9 EUT TEST PHOTO

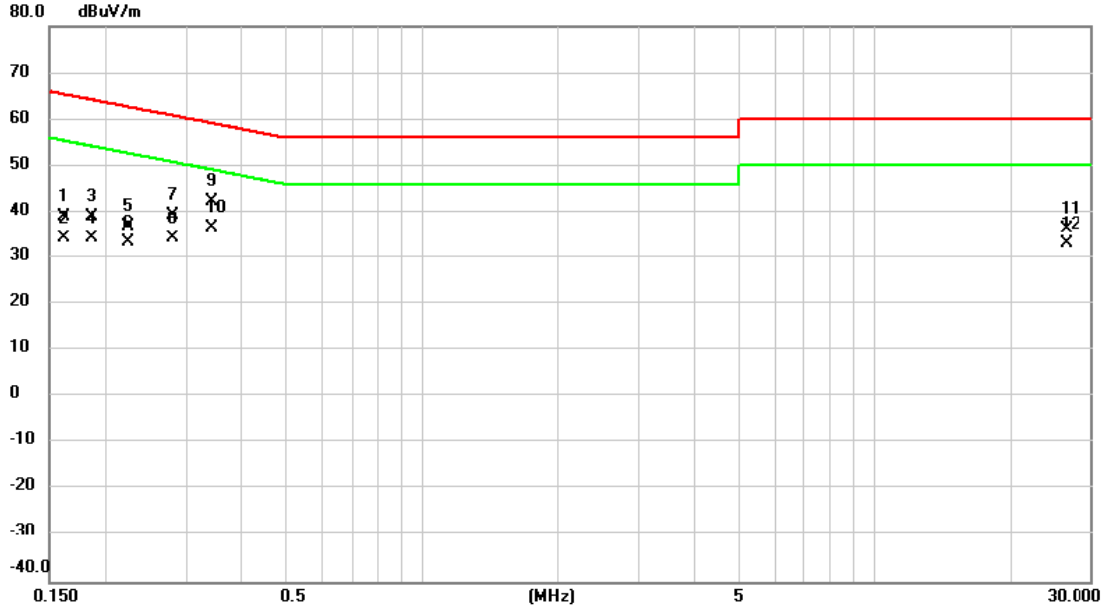
Please refer to APPENDIX-TEST PHOTOS

10 EUT PHOTOS

Please refer to APPENDIX-EUT PHOTOS

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

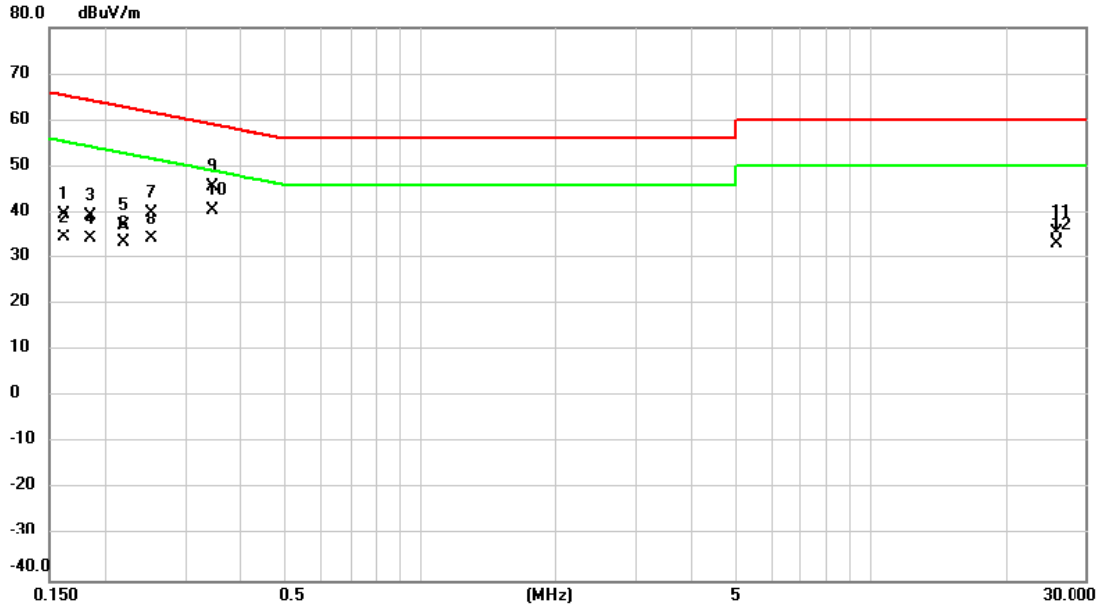
Test Mode	Normal	Tested Date	2023/9/10
Test Frequency	-	Phase	Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1612	29.40	9.67	39.07	65.40	-26.33	QP	
2		0.1612	24.72	9.67	34.39	55.40	-21.01	AVG	
3		0.1857	29.27	9.67	38.94	64.23	-25.29	QP	
4		0.1857	24.68	9.67	34.35	54.23	-19.88	AVG	
5		0.2235	27.34	9.67	37.01	62.69	-25.68	QP	
6		0.2235	23.64	9.67	33.31	52.69	-19.38	AVG	
7		0.2802	29.83	9.66	39.49	60.81	-21.32	QP	
8		0.2802	24.48	9.66	34.14	50.81	-16.67	AVG	
9		0.3407	32.59	9.66	42.25	59.19	-16.94	QP	
10	*	0.3407	27.11	9.66	36.77	49.19	-12.42	AVG	
11		26.6000	25.99	10.21	36.20	60.00	-23.80	QP	
12		26.6000	22.74	10.21	32.95	50.00	-17.05	AVG	

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

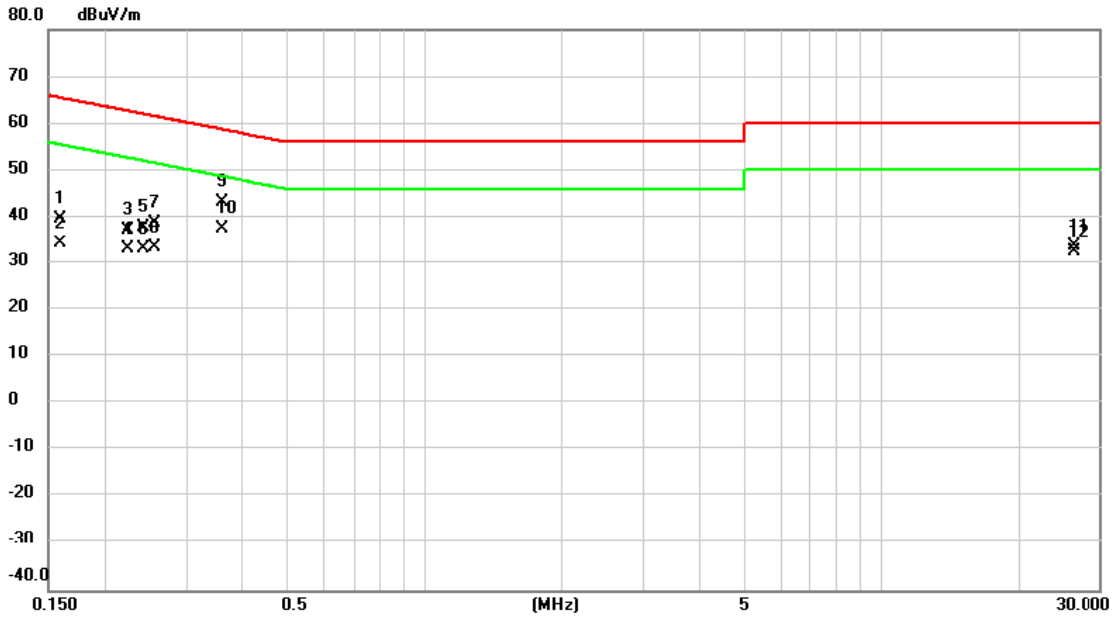
Test Mode	Normal	Tested Date	2023/9/10
Test Frequency	-	Phase	Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1612	29.85	9.67	39.52	65.40	-25.88	QP	
2		0.1612	24.89	9.67	34.56	55.40	-20.84	AVG	
3		0.1850	29.73	9.66	39.39	64.26	-24.87	QP	
4		0.1850	24.66	9.66	34.32	54.26	-19.94	AVG	
5		0.2193	27.73	9.66	37.39	62.85	-25.46	QP	
6		0.2193	23.78	9.66	33.44	52.85	-19.41	AVG	
7		0.2522	30.35	9.65	40.00	61.68	-21.68	QP	
8		0.2522	24.66	9.65	34.31	51.68	-17.37	AVG	
9		0.3450	35.85	9.66	45.51	59.08	-13.57	QP	
10	*	0.3450	30.77	9.66	40.43	49.08	-8.65	AVG	
11		25.7250	25.43	10.41	35.84	60.00	-24.16	QP	
12		25.7250	22.53	10.41	32.94	50.00	-17.06	AVG	

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

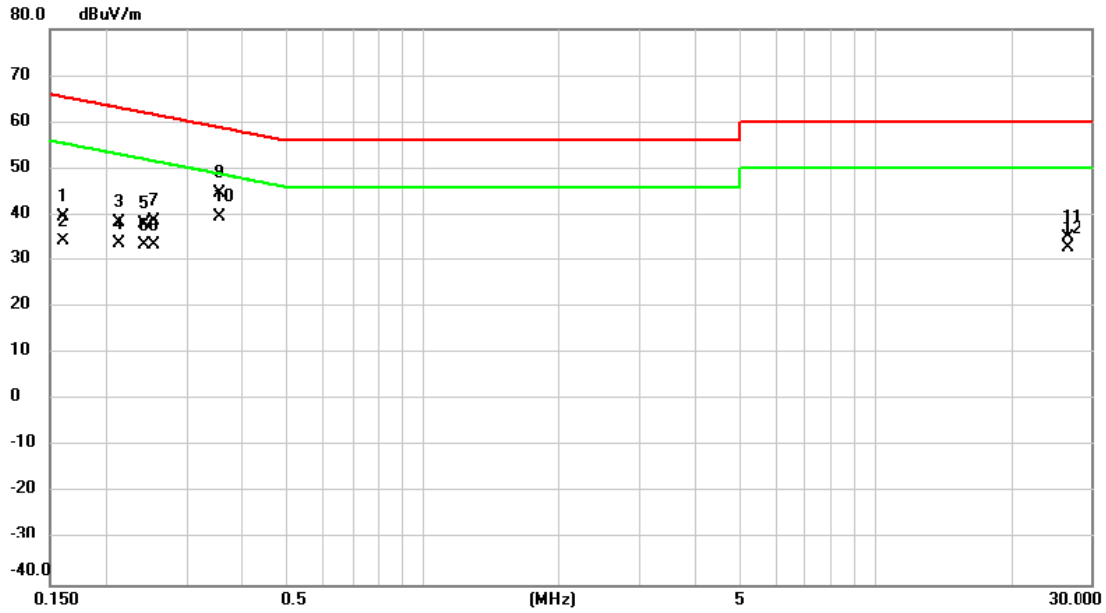
Test Mode	Idle	Tested Date	2023/9/11
Test Frequency	-	Phase	Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1590	29.97	9.67	39.64	65.52	-25.88	QP	
2		0.1590	24.54	9.67	34.21	55.52	-21.31	AVG	
3		0.2238	27.69	9.67	37.36	62.68	-25.32	QP	
4		0.2238	23.40	9.67	33.07	52.68	-19.61	AVG	
5		0.2424	28.16	9.67	37.83	62.01	-24.18	QP	
6		0.2424	23.45	9.67	33.12	52.01	-18.89	AVG	
7		0.2564	29.07	9.66	38.73	61.55	-22.82	QP	
8		0.2564	23.77	9.66	33.43	51.55	-18.12	AVG	
9		0.3590	33.64	9.66	43.30	58.75	-15.45	QP	
10	*	0.3590	27.83	9.66	37.49	48.75	-11.26	AVG	
11		26.4000	23.40	10.20	33.60	60.00	-26.40	QP	
12		26.4000	22.34	10.20	32.54	50.00	-17.46	AVG	

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

Test Mode	Idle	Tested Date	2023/9/11
Test Frequency	-	Phase	Neutral

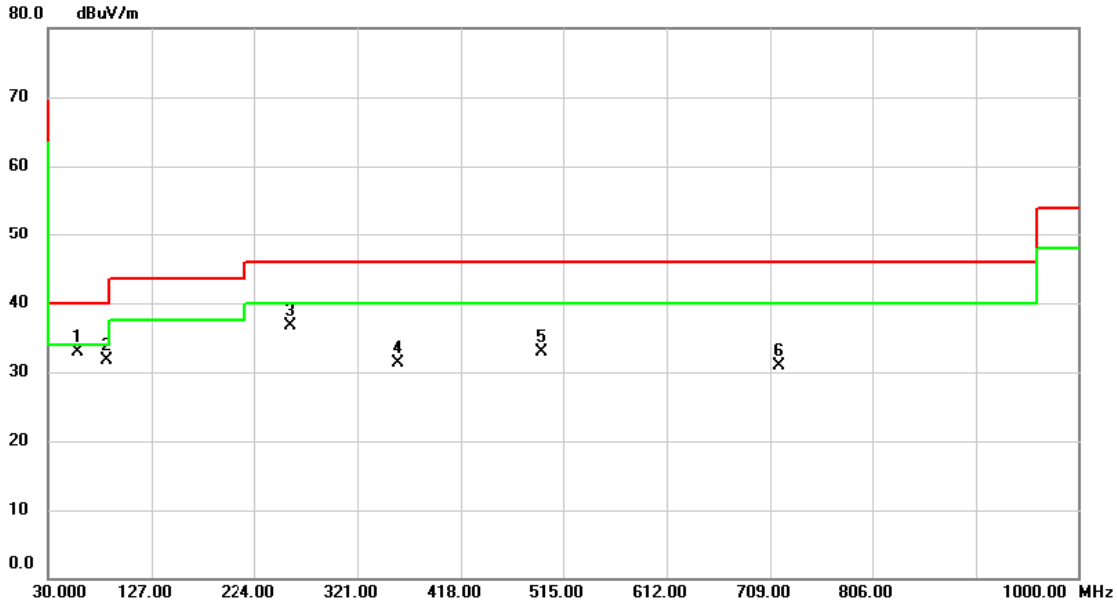


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1601	29.99	9.67	39.66	65.46	-25.80	QP	
2		0.1601	24.69	9.67	34.36	55.46	-21.10	AVG	
3		0.2126	28.74	9.66	38.40	63.10	-24.70	QP	
4		0.2126	23.89	9.66	33.55	53.10	-19.55	AVG	
5		0.2420	28.62	9.66	38.28	62.03	-23.75	QP	
6		0.2420	23.79	9.66	33.45	52.03	-18.58	AVG	
7		0.2540	29.22	9.65	38.87	61.63	-22.76	QP	
8		0.2540	23.82	9.65	33.47	51.63	-18.16	AVG	
9		0.3537	35.14	9.66	44.80	58.88	-14.08	QP	
10	*	0.3537	29.97	9.66	39.63	48.88	-9.25	AVG	
11		26.4750	24.84	10.42	35.26	60.00	-24.74	QP	
12		26.4750	22.37	10.42	32.79	50.00	-17.21	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

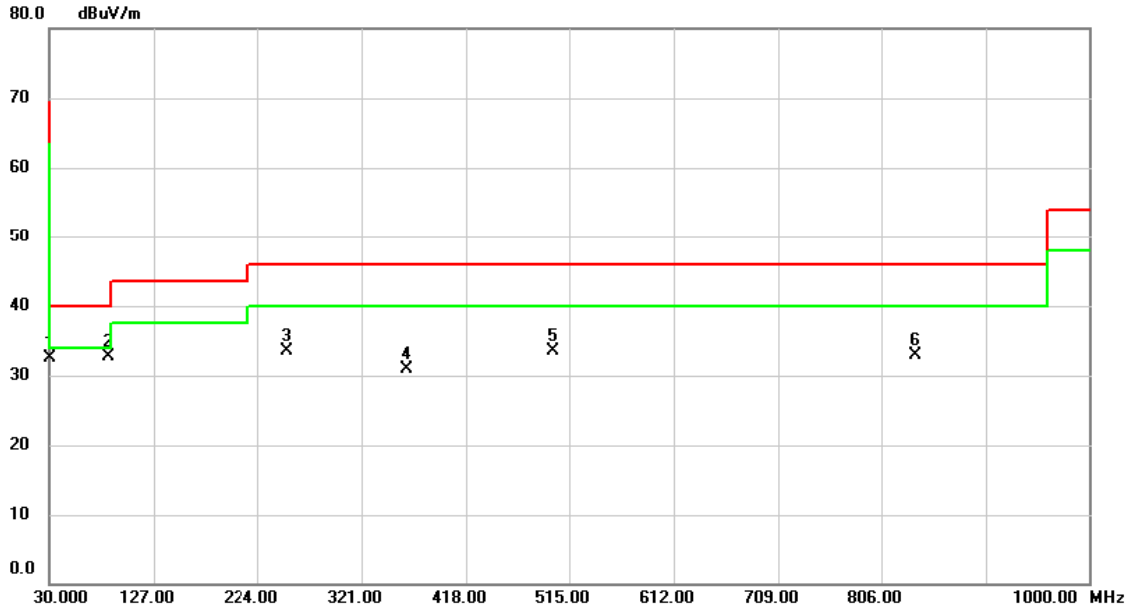
Test Mode	IEEE 802.11ax(HE20)	Test Date	2023/9/10
Test Frequency	5240MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	58.1300	44.71	-11.80	32.91	40.00	-7.09	peak	
2		85.2900	48.53	-16.79	31.74	40.00	-8.26	peak	
3		257.9500	48.31	-11.69	36.62	46.00	-9.38	peak	
4		358.8300	40.26	-8.96	31.30	46.00	-14.70	peak	
5		494.6300	38.42	-5.42	33.00	46.00	-13.00	peak	
6		717.7300	31.56	-0.56	31.00	46.00	-15.00	peak	

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

Test Mode	IEEE 802.11ax(HE20)	Test Date	2023/9/10
Test Frequency	5240MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%

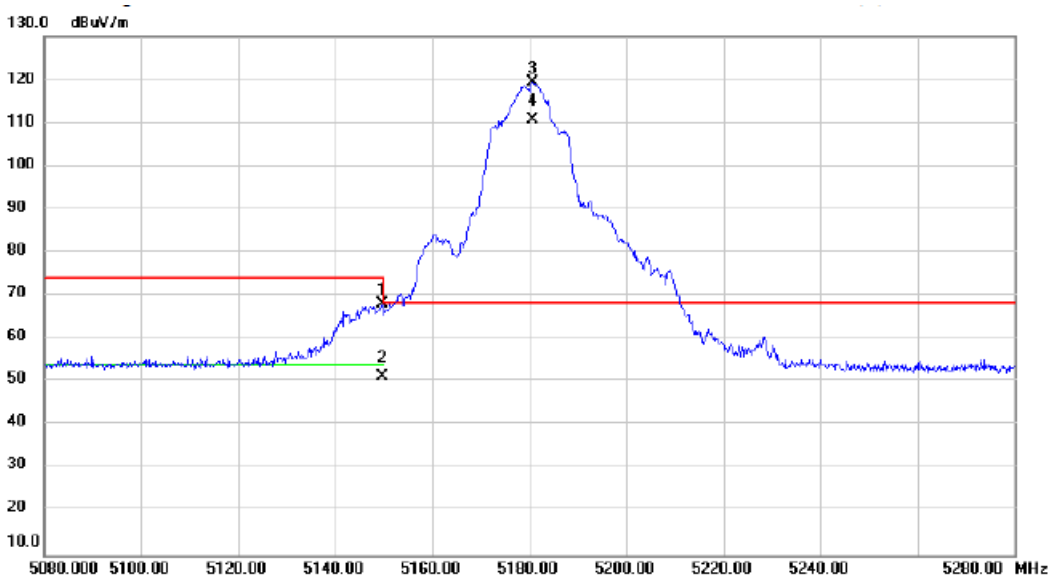


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		30.0000	46.26	-13.67	32.59	40.00	-7.41	peak	
2	*	84.3200	49.40	-16.71	32.69	40.00	-7.31	peak	
3		252.1300	45.45	-11.92	33.53	46.00	-12.47	peak	
4		362.7100	39.72	-8.85	30.87	46.00	-15.13	peak	
5		499.4800	38.92	-5.34	33.58	46.00	-12.42	peak	
6		838.0100	31.97	1.00	32.97	46.00	-13.03	peak	

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

APPENDIX C RADIATED EMISSIONS - ABOVE 1 GHZ

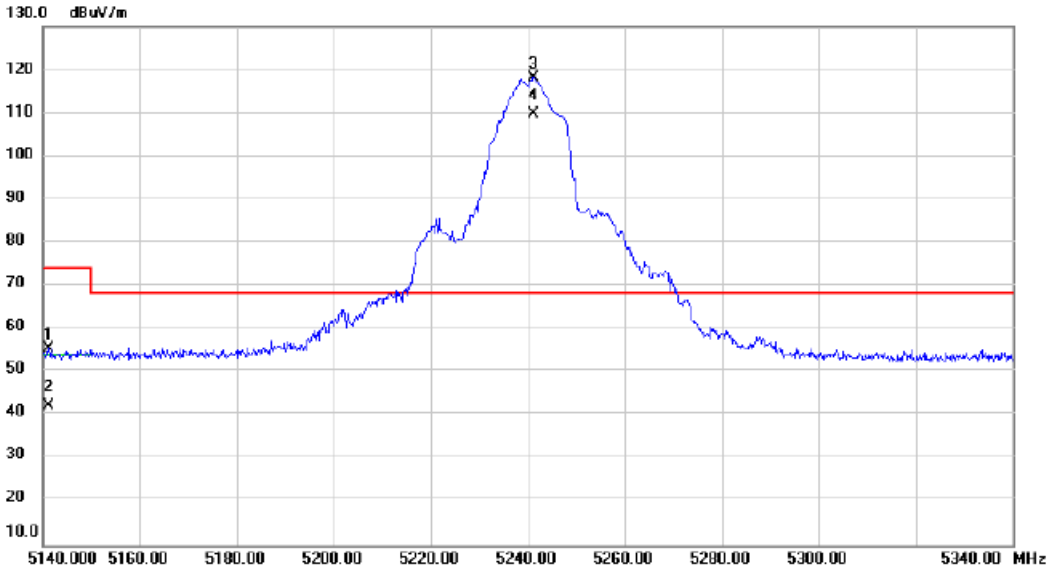
Test Mode	IEEE 802.11a	Test Date	2023/10/16
Test Frequency	5180MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5149.600	57.54	10.51	68.05	74.00	-5.95	peak			
2		5149.600	40.72	10.51	51.23	54.00	-2.77	AVG			
3	*	5180.600	108.88	10.50	119.38	68.20	51.18	peak			NO Limit
4	X	5180.600	100.18	10.50	110.68	68.20	42.48	AVG			NO Limit

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

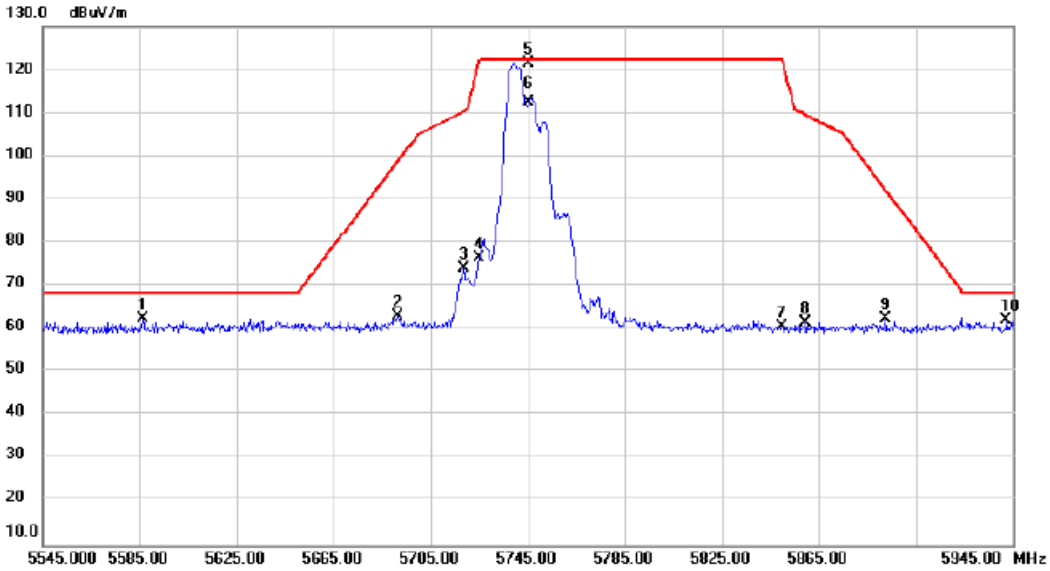
Test Mode	IEEE 802.11a	Test Date	2023/10/16
Test Frequency	5240MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5141.200	45.10	10.50	55.60	74.00	-18.40	peak			
2		5141.200	31.66	10.50	42.16	54.00	-11.84	AVG			
3	*	5241.200	107.57	10.51	118.08	68.20	49.88	peak			NO Limit
4	X	5241.200	99.17	10.51	109.68	68.20	41.48	AVG			NO Limit

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

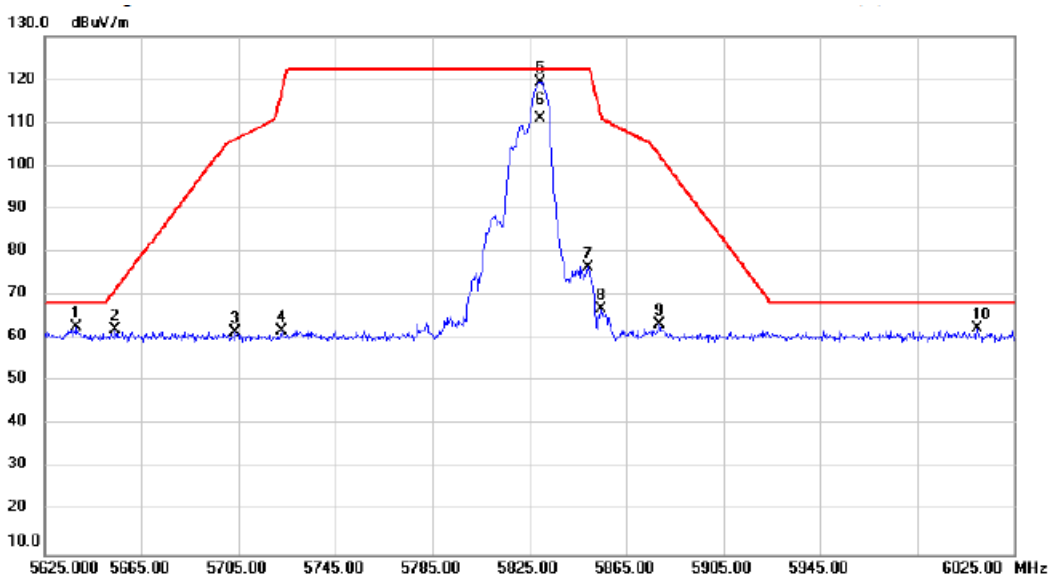
Test Mode	IEEE 802.11a	Test Date	2023/10/16
Test Frequency	5745MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5586.200	51.45	10.77	62.22	68.20	-5.98	peak			
2		5691.400	51.76	11.09	62.85	98.86	-36.01	peak			
3		5718.600	62.76	11.18	73.94	110.41	-36.47	peak			
4		5725.000	65.15	11.19	76.34	122.20	-45.86	peak			
5	*	5745.000	110.29	11.26	121.55	122.20	-0.65	peak			NO Limit
6		5745.000	101.18	11.26	112.44	122.20	-9.76	AVG			NO Limit
7		5849.800	48.97	11.57	60.54	122.20	-61.66	peak			
8		5859.400	49.88	11.60	61.48	109.57	-48.09	peak			
9		5892.600	50.52	11.71	62.23	92.14	-29.91	peak			
10		5942.200	50.11	11.85	61.96	68.20	-6.24	peak			

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

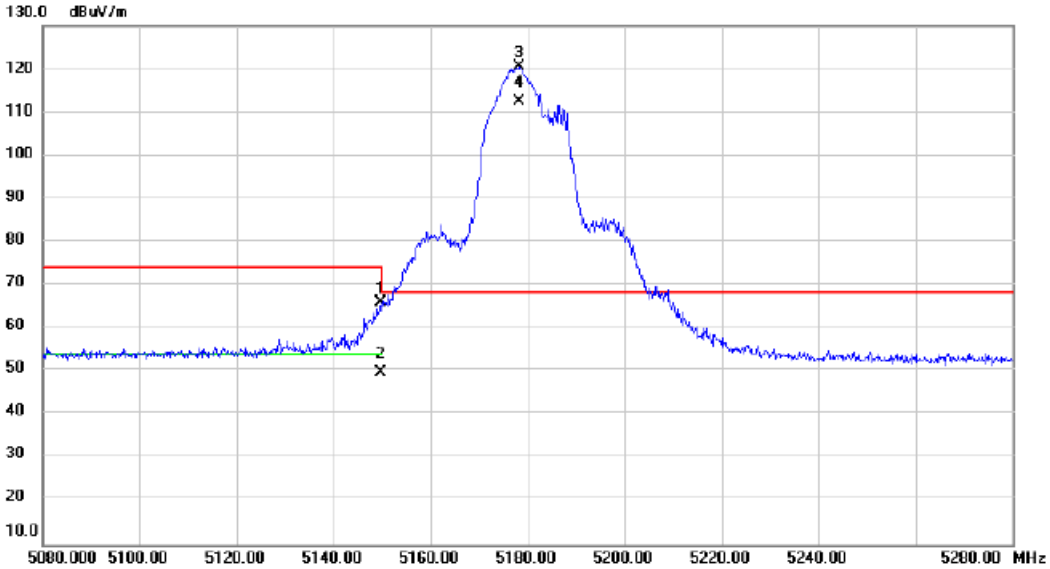
Test Mode	IEEE 802.11a	Test Date	2023/10/16
Test Frequency	5825MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5638.200	51.61	10.94	62.55	68.20	-5.65	peak			
2		5654.200	51.12	10.98	62.10	71.32	-9.22	peak			
3		5703.800	50.40	11.13	61.53	106.27	-44.74	peak			
4		5722.600	50.49	11.19	61.68	116.73	-55.05	peak			
5	*	5829.400	107.92	11.51	119.43	122.20	-2.77	peak			NO Limit
6		5829.400	99.53	11.51	111.04	122.20	-11.16	AVG			NO Limit
7		5849.400	64.91	11.57	76.48	122.20	-45.72	peak			
8		5854.600	55.31	11.59	66.90	111.71	-44.81	peak			
9		5878.600	51.57	11.66	63.23	102.53	-39.30	peak			
10		6009.800	50.31	12.08	62.39	68.20	-5.81	peak			

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

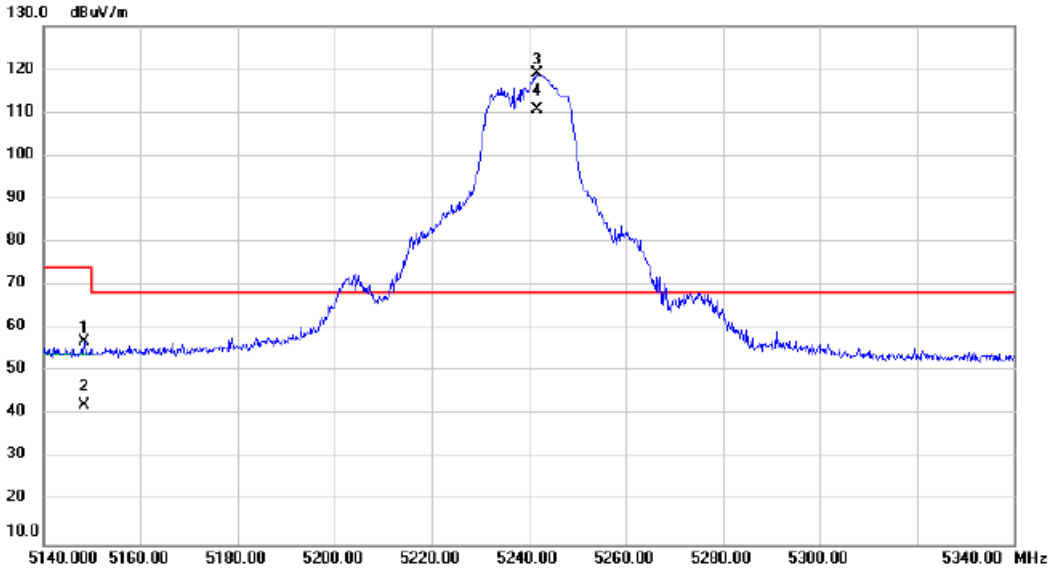
Test Mode	IEEE 802.11n (HT20)	Test Date	2023/10/16
Test Frequency	5180MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5149.800	55.47	10.51	65.98	74.00	-8.02	peak			
2		5149.800	39.16	10.51	49.67	54.00	-4.33	AVG			
3	*	5178.400	110.04	10.50	120.54	68.20	52.34	peak			NO Limit
4	X	5178.400	101.87	10.50	112.37	68.20	44.17	AVG			NO Limit

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

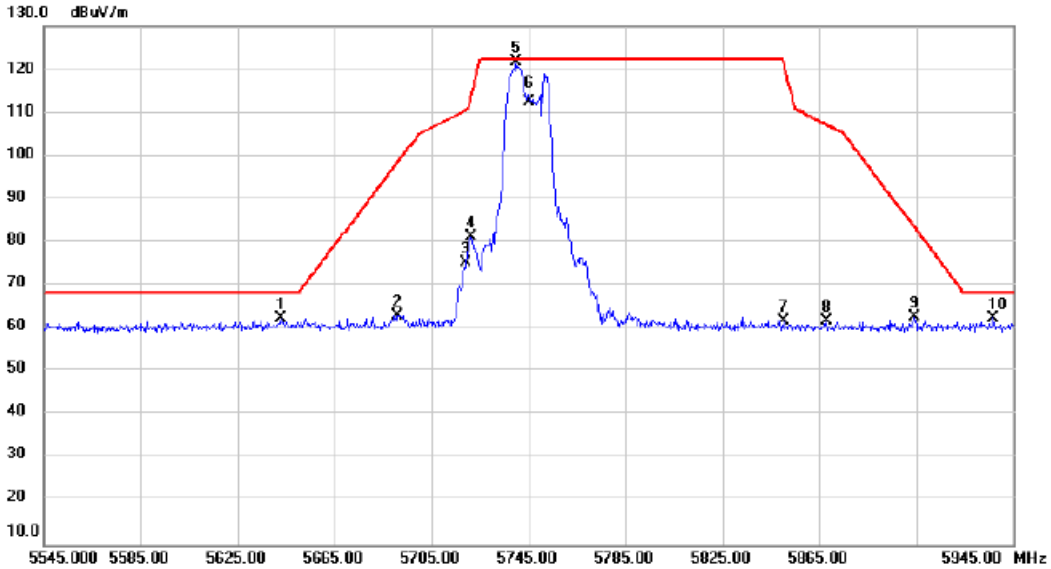
Test Mode	IEEE 802.11n (HT20)	Test Date	2023/10/16
Test Frequency	5240MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5148.400	46.44	10.51	56.95	74.00	-17.05	peak			
2		5148.400	31.76	10.51	42.27	54.00	-11.73	AVG			
3	*	5241.800	108.60	10.51	119.11	68.20	50.91	peak			NO Limit
4	X	5241.800	100.14	10.51	110.65	68.20	42.45	AVG			NO Limit

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

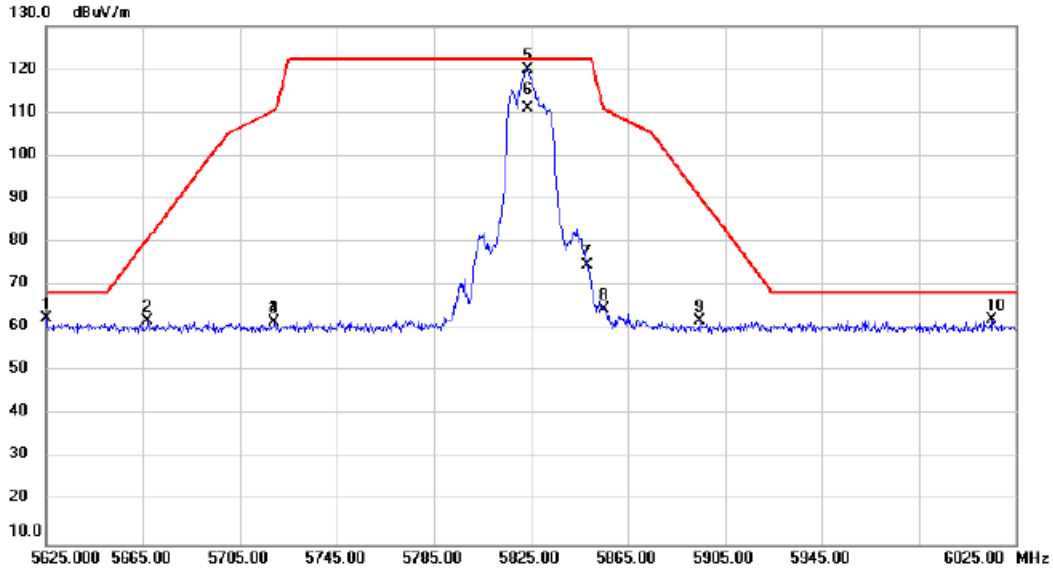
Test Mode	IEEE 802.11n (HT20)	Test Date	2023/10/16
Test Frequency	5745MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5642.600	51.38	10.95	62.33	68.20	-5.87	peak			
2		5691.000	51.99	11.09	63.08	98.56	-35.48	peak			
3		5719.400	63.99	11.18	75.17	110.63	-35.46	peak			
4		5721.000	70.19	11.18	81.37	113.08	-31.71	peak			
5	*	5739.800	110.46	11.24	121.70	122.20	-0.50	peak			NO Limit
6		5745.000	101.16	11.26	112.42	122.20	-9.78	AVG			NO Limit
7		5850.200	50.05	11.57	61.62	121.74	-60.12	peak			
8		5867.800	50.18	11.64	61.82	107.21	-45.39	peak			
9		5904.200	50.83	11.74	62.57	83.55	-20.98	peak			
10		5936.600	50.67	11.83	62.50	68.20	-5.70	peak			

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

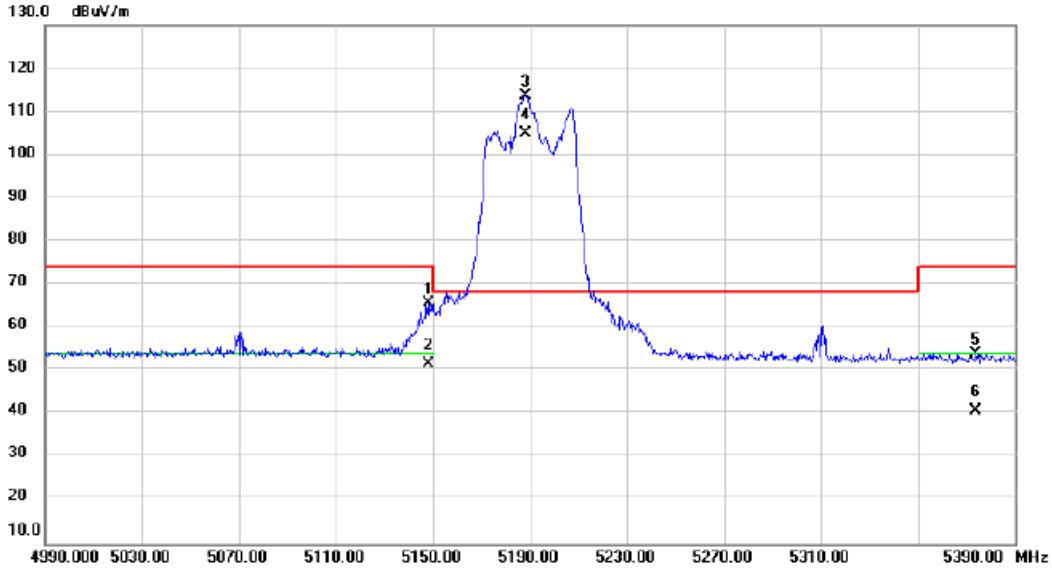
Test Mode	IEEE 802.11n (HT20)	Test Date	2023/10/16
Test Frequency	5825MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5625.000	51.60	10.89	62.49	68.20	-5.71	peak			
2		5667.000	50.65	11.02	61.67	80.82	-19.15	peak			
3		5719.400	50.41	11.18	61.59	110.63	-49.04	peak			
4		5719.400	50.41	11.18	61.59	110.63	-49.04	peak			
5	*	5823.800	108.45	11.50	119.95	122.20	-2.25	peak			NO Limit
6		5823.800	99.54	11.50	111.04	122.20	-11.16	AVG			NO Limit
7		5848.200	63.20	11.57	74.77	122.20	-47.43	peak			
8		5855.400	52.85	11.59	64.44	110.69	-46.25	peak			
9		5894.600	50.12	11.71	61.83	90.66	-28.83	peak			
10		6015.400	49.88	12.12	62.00	68.20	-6.20	peak			

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

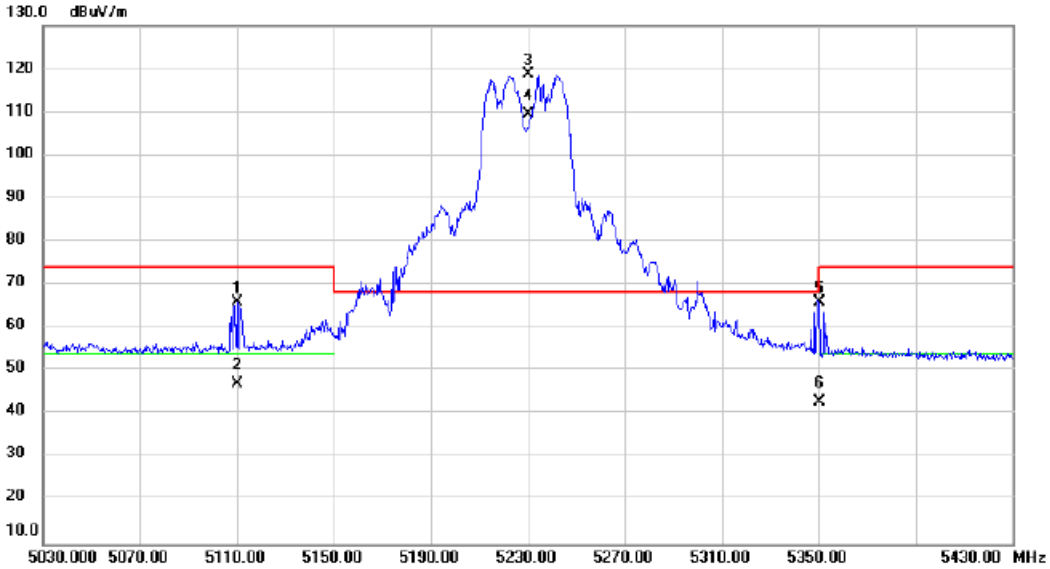
Test Mode	IEEE 802.11n (HT40)	Test Date	2023/10/16
Test Frequency	5190MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5148.000	55.11	10.51	65.62	74.00	-8.38	peak			
2		5148.000	40.91	10.51	51.42	54.00	-2.58	AVG			
3	*	5188.000	103.29	10.51	113.80	68.20	45.60	peak			NO Limit
4	X	5188.000	94.58	10.51	105.09	68.20	36.89	AVG			NO Limit
5		5373.600	43.58	10.51	54.09	74.00	-19.91	peak			
6		5373.600	30.22	10.51	40.73	54.00	-13.27	AVG			

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

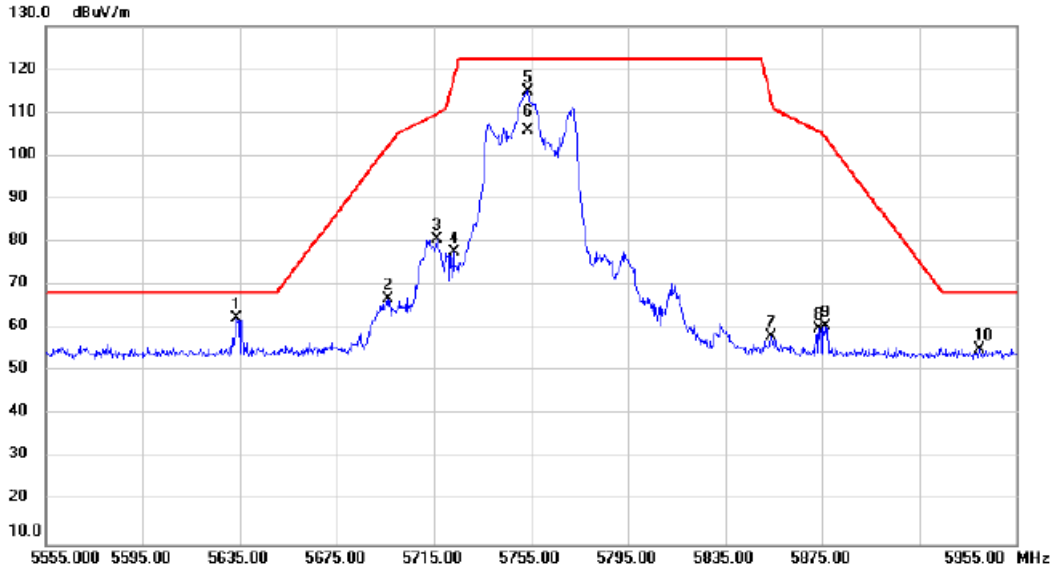
Test Mode	IEEE 802.11n (HT40)	Test Date	2023/10/16
Test Frequency	5230MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5110.000	55.44	10.51	65.95	74.00	-8.05	peak			
2		5110.000	36.47	10.51	46.98	54.00	-7.02	AVG			
3	*	5230.000	108.34	10.51	118.85	68.20	50.65	peak			NO Limit
4	X	5230.000	98.93	10.51	109.44	68.20	41.24	AVG			NO Limit
5		5350.000	55.58	10.51	66.09	74.00	-7.91	peak			
6		5350.000	32.47	10.51	42.98	54.00	-11.02	AVG			

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

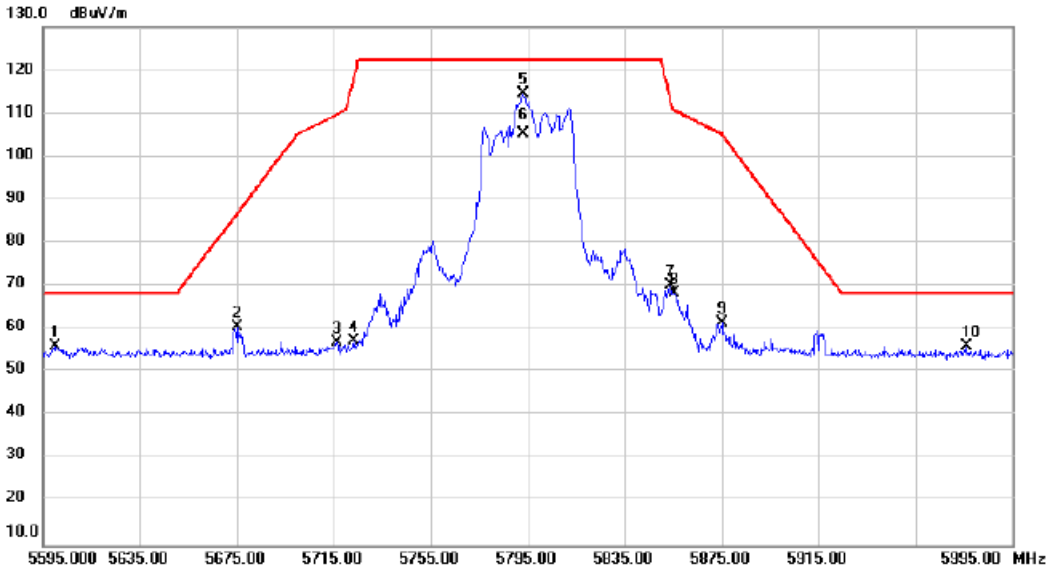
Test Mode	IEEE 802.11n (HT40)	Test Date	2023/10/16
Test Frequency	5755MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	5633.800	51.55	10.92	62.47	68.20	-5.73	peak			
2		5695.800	55.70	11.11	66.81	102.10	-35.29	peak			
3		5716.200	69.41	11.17	80.58	109.74	-29.16	peak			
4		5723.000	66.46	11.19	77.65	117.64	-39.99	peak			
5		5753.800	103.72	11.28	115.00	122.20	-7.20	peak			NO Limit
6		5753.800	94.60	11.28	105.88	122.20	-16.32	AVG			NO Limit
7		5854.200	46.62	11.59	58.21	112.62	-54.41	peak			
8		5873.800	48.40	11.65	60.05	105.54	-45.49	peak			
9		5876.200	48.76	11.65	60.41	104.31	-43.90	peak			
10		5939.800	43.44	11.85	55.29	68.20	-12.91	peak			

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2023/10/16
Test Frequency	5795MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5600.200	45.16	10.81	55.97	68.20	-12.23	peak			
2		5675.400	49.46	11.04	60.50	87.04	-26.54	peak			
3		5716.200	45.91	11.17	57.08	109.74	-52.66	peak			
4		5723.000	46.19	11.19	57.38	117.64	-60.26	peak			
5	*	5793.400	103.06	11.41	114.47	122.20	-7.73	peak			NO Limit
6		5793.400	93.97	11.41	105.38	122.20	-16.82	AVG			NO Limit
7		5854.200	58.44	11.59	70.03	112.62	-42.59	peak			
8		5855.400	56.72	11.59	68.31	110.69	-42.38	peak			
9		5875.000	49.88	11.65	61.53	105.20	-43.67	peak			
10		5975.800	43.98	11.95	55.93	68.20	-12.27	peak			

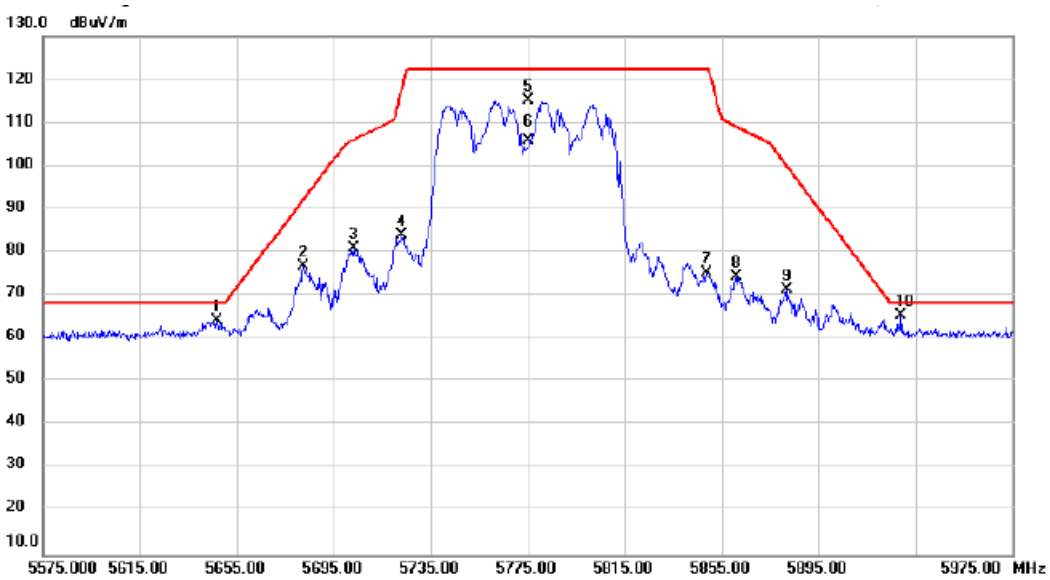
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11ac (VHT80)	Test Date	2023/10/16
Test Frequency	5210MHz	Polarization	Vertical
Temp	23°C	Hum.	68%

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5149.200	54.05	10.51	64.56	74.00	-9.44	peak			
2		5149.200	41.65	10.51	52.16	54.00	-1.84	AVG			
3	*	5210.000	98.93	10.51	109.44	68.20	41.24	peak			NO Limit
4	X	5210.000	89.96	10.51	100.47	68.20	32.27	AVG			NO Limit
5		5371.600	44.47	10.51	54.98	74.00	-19.02	peak			
6		5371.600	30.78	10.51	41.29	54.00	-12.71	AVG			

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

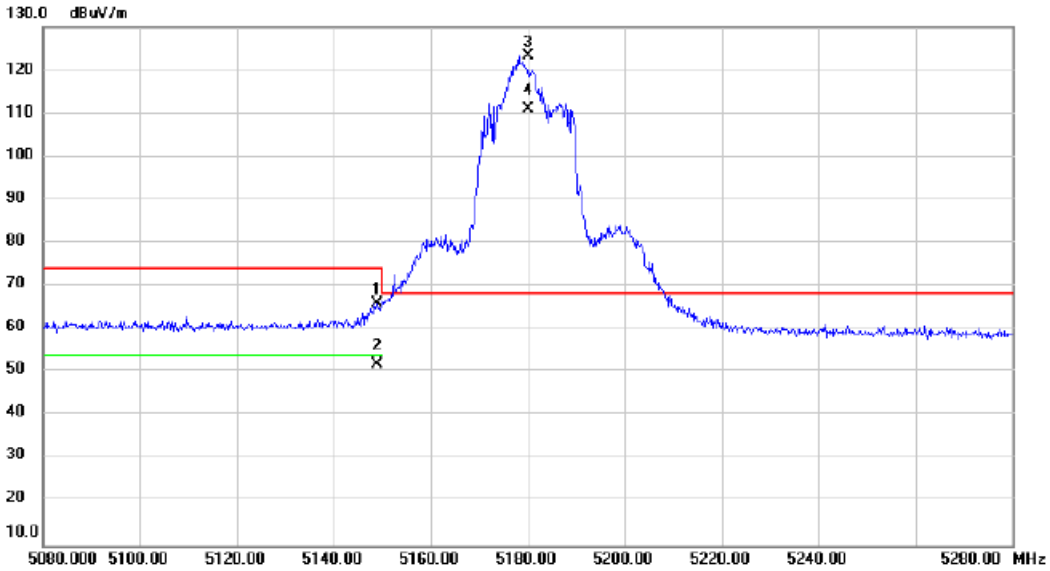
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2023/10/16
Test Frequency	5775MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5646.600	53.28	10.95	64.23	68.20	-3.97	peak			
2		5682.600	65.73	11.07	76.80	92.36	-15.56	peak			
3		5703.000	69.97	11.13	81.10	106.04	-24.94	peak			
4		5723.000	72.63	11.19	83.82	117.64	-33.82	peak			
5		5775.000	103.93	11.35	115.28	122.20	-6.92	peak			NO Limit
6		5775.000	94.37	11.35	105.72	122.20	-16.48	AVG			NO Limit
7		5849.000	63.57	11.57	75.14	122.20	-47.06	peak			
8		5861.000	62.78	11.60	74.38	109.12	-34.74	peak			
9		5881.800	59.58	11.66	71.24	100.15	-28.91	peak			
10	*	5929.000	53.53	11.81	65.34	68.20	-2.86	peak			

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

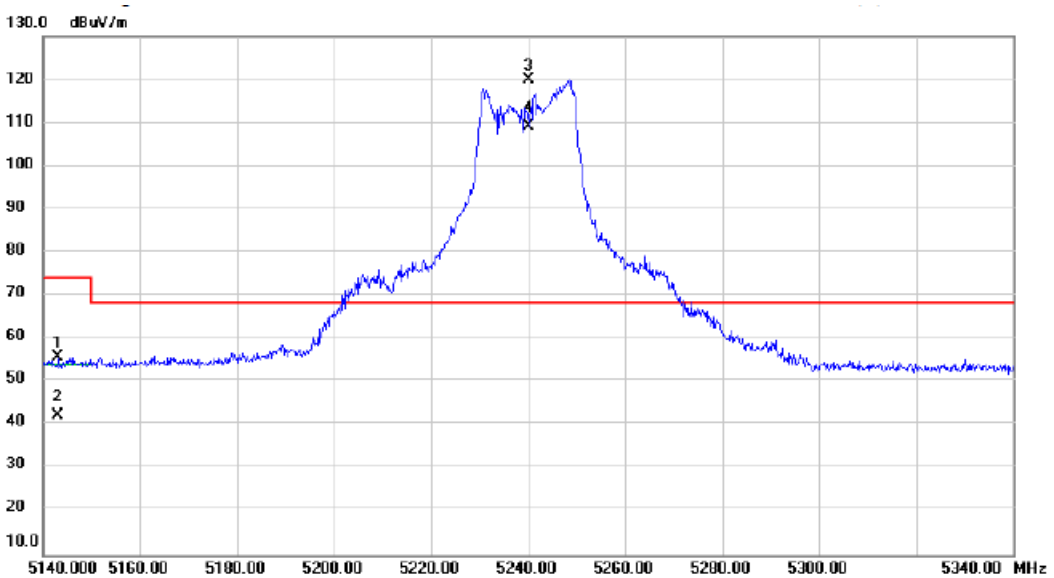
Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/10/16
Test Frequency	5180MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5148.800	55.54	10.51	66.05	74.00	-7.95	peak			
2		5148.800	41.27	10.51	51.78	54.00	-2.22	AVG			
3	*	5180.000	112.74	10.50	123.24	68.20	55.04	peak			NO Limit
4	X	5180.000	100.40	10.50	110.90	68.20	42.70	AVG			NO Limit

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

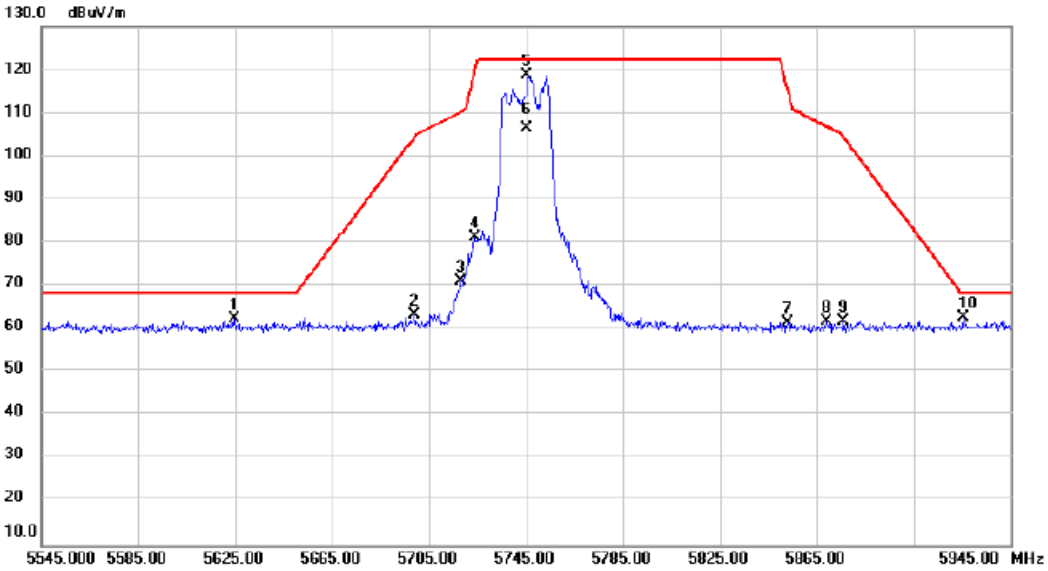
Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/10/16
Test Frequency	5240MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5143.200	45.39	10.50	55.89	74.00	-18.11	peak			
2		5143.200	31.65	10.50	42.15	54.00	-11.85	AVG			
3	*	5240.000	109.51	10.50	120.01	68.20	51.81	peak			NO Limit
4	X	5240.000	98.73	10.50	109.23	68.20	41.03	AVG			NO Limit

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

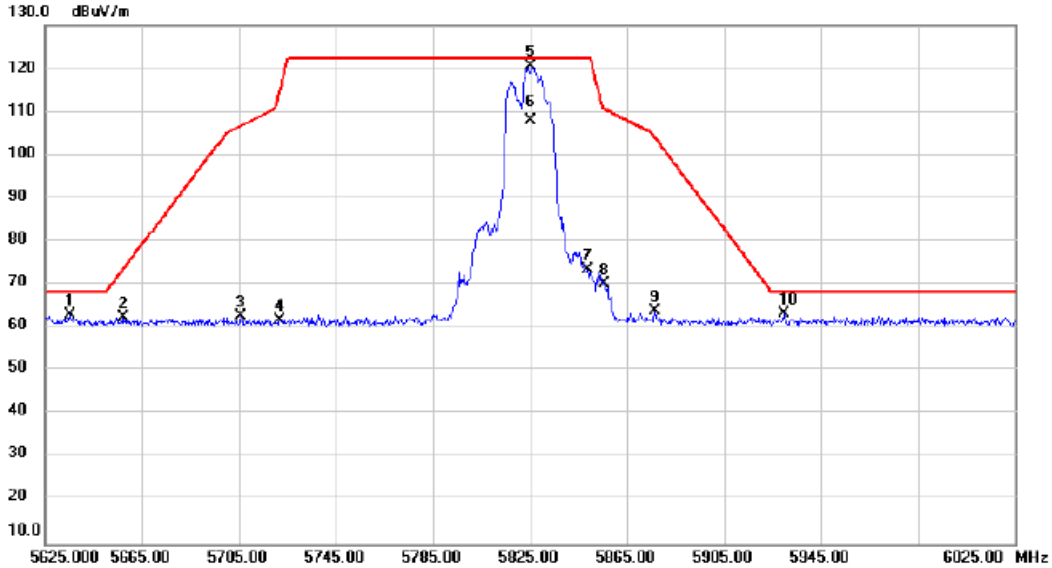
Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/10/16
Test Frequency	5745MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5624.600	51.45	10.89	62.34	68.20	-5.86	peak			
2		5699.000	52.05	11.12	63.17	104.46	-41.29	peak			
3		5717.800	59.77	11.18	70.95	110.18	-39.23	peak			
4		5723.800	70.04	11.19	81.23	119.46	-38.23	peak			
5	*	5745.000	107.61	11.26	118.87	122.20	-3.33	peak			NO Limit
6		5745.000	95.29	11.26	106.55	122.20	-15.65	AVG			NO Limit
7		5853.000	49.86	11.59	61.45	115.36	-53.91	peak			
8		5869.000	50.01	11.64	61.65	106.88	-45.23	peak			
9		5876.200	50.08	11.65	61.73	104.31	-42.58	peak			
10		5925.400	50.82	11.80	62.62	68.20	-5.58	peak			

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

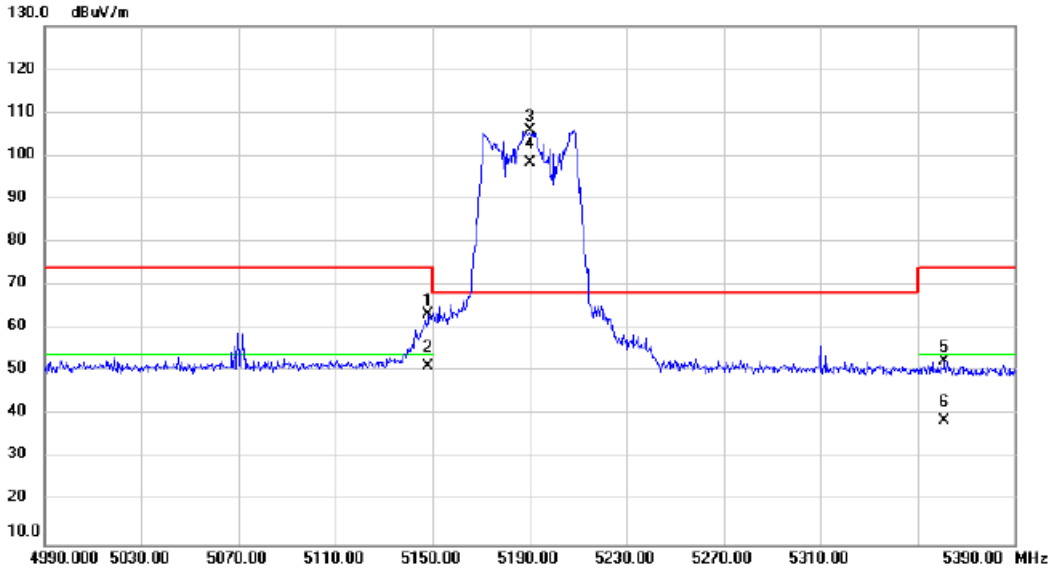
Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/10/16
Test Frequency	5825MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5635.400	51.90	10.92	62.82	68.20	-5.38	peak			
2		5657.400	51.41	10.98	62.39	73.70	-11.31	peak			
3		5705.800	51.51	11.13	62.64	106.83	-44.19	peak			
4		5721.800	50.51	11.18	61.69	114.91	-53.22	peak			
5	*	5825.000	108.98	11.50	120.48	122.20	-1.72	peak			NO Limit
6		5825.000	96.44	11.50	107.94	122.20	-14.26	AVG			NO Limit
7		5848.600	61.81	11.57	73.38	122.20	-48.82	peak			
8		5855.800	58.56	11.59	70.15	110.58	-40.43	peak			
9		5876.600	52.08	11.65	63.73	104.01	-40.28	peak			
10		5929.800	51.36	11.82	63.18	68.20	-5.02	peak			

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

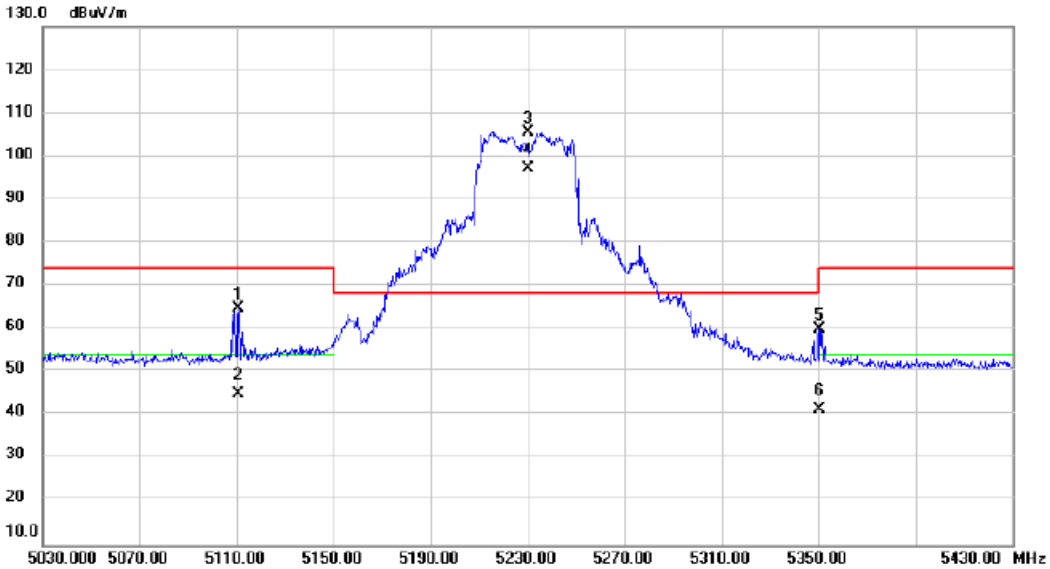
Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/10/16
Test Frequency	5190MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5148.400	52.76	10.51	63.27	74.00	-10.73	peak			
2		5148.400	40.69	10.51	51.20	54.00	-2.80	AVG			
3	*	5190.000	95.27	10.51	105.78	68.20	37.58	peak			NO Limit
4	X	5190.000	87.92	10.51	98.43	68.20	30.23	AVG			NO Limit
5		5361.200	41.92	10.51	52.43	74.00	-21.57	peak			
6		5361.200	28.14	10.51	38.65	54.00	-15.35	AVG			

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/10/16
Test Frequency	5230MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5110.800	54.10	10.51	64.61	74.00	-9.39	peak			
2		5110.800	34.43	10.51	44.94	54.00	-9.06	AVG			
3	*	5230.000	95.10	10.51	105.61	68.20	37.41	peak			NO Limit
4	X	5230.000	86.55	10.51	97.06	68.20	28.86	AVG			NO Limit
5		5350.000	49.32	10.51	59.83	74.00	-14.17	peak			
6		5350.000	30.78	10.51	41.29	54.00	-12.71	AVG			

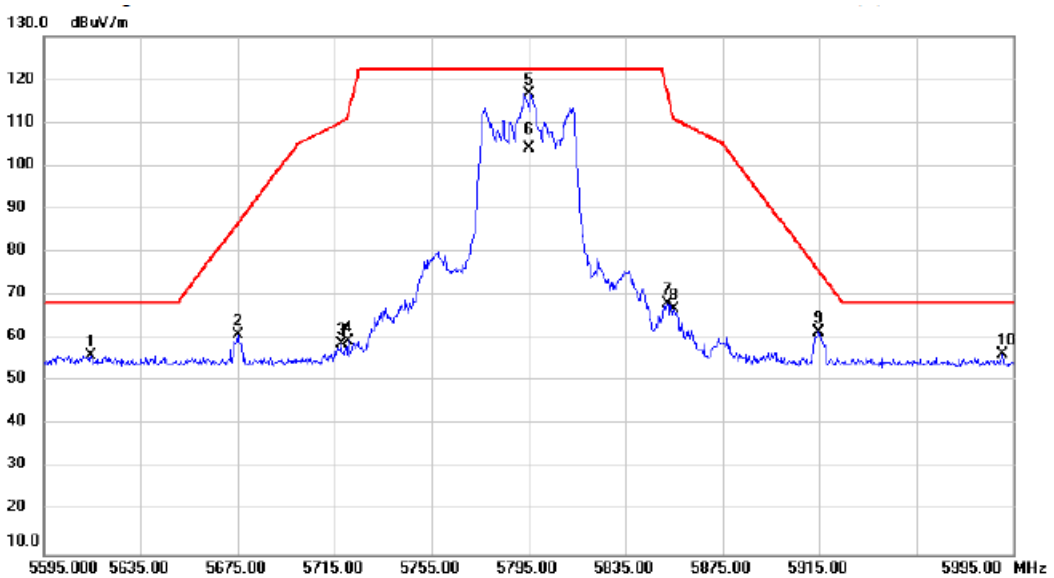
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/10/16
Test Frequency	5755MHz	Polarization	Vertical
Temp	23°C	Hum.	68%

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	5634.200	50.47	10.92	61.39	68.20	-6.81	peak			
2		5699.000	53.40	11.12	64.52	104.46	-39.94	peak			
3		5716.200	66.47	11.17	77.64	109.74	-32.10	peak			
4		5719.000	65.88	11.18	77.06	110.52	-33.46	peak			
5		5755.000	104.05	11.28	115.33	122.20	-6.87	peak			NO Limit
6		5755.000	93.28	11.28	104.56	122.20	-17.64	AVG			NO Limit
7		5853.400	43.62	11.59	55.21	114.45	-59.24	peak			
8		5873.800	47.14	11.65	58.79	105.54	-46.75	peak			
9		5876.200	47.29	11.65	58.94	104.31	-45.37	peak			
10		5947.400	42.50	11.87	54.37	68.20	-13.83	peak			

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

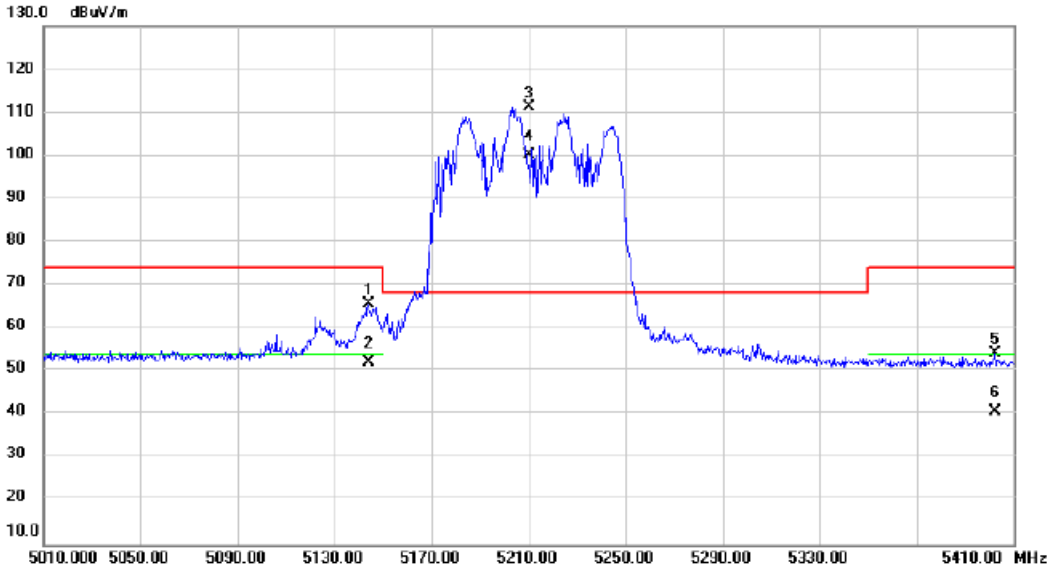
Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/10/16
Test Frequency	5795MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5614.600	45.29	10.86	56.15	68.20	-12.05	peak			
2		5675.000	49.94	11.04	60.98	86.74	-25.76	peak			
3		5717.800	47.46	11.18	58.64	110.18	-51.54	peak			
4		5720.600	48.32	11.18	59.50	112.17	-52.67	peak			
5	*	5795.000	105.35	11.41	116.76	122.20	-5.44	peak			NO Limit
6		5795.000	92.58	11.41	103.99	122.20	-18.21	AVG			NO Limit
7		5852.200	56.42	11.58	68.00	117.18	-49.18	peak			
8		5855.000	55.13	11.59	66.72	110.80	-44.08	peak			
9		5914.600	49.82	11.78	61.60	75.87	-14.27	peak			
10		5990.600	44.29	12.00	56.29	68.20	-11.91	peak			

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

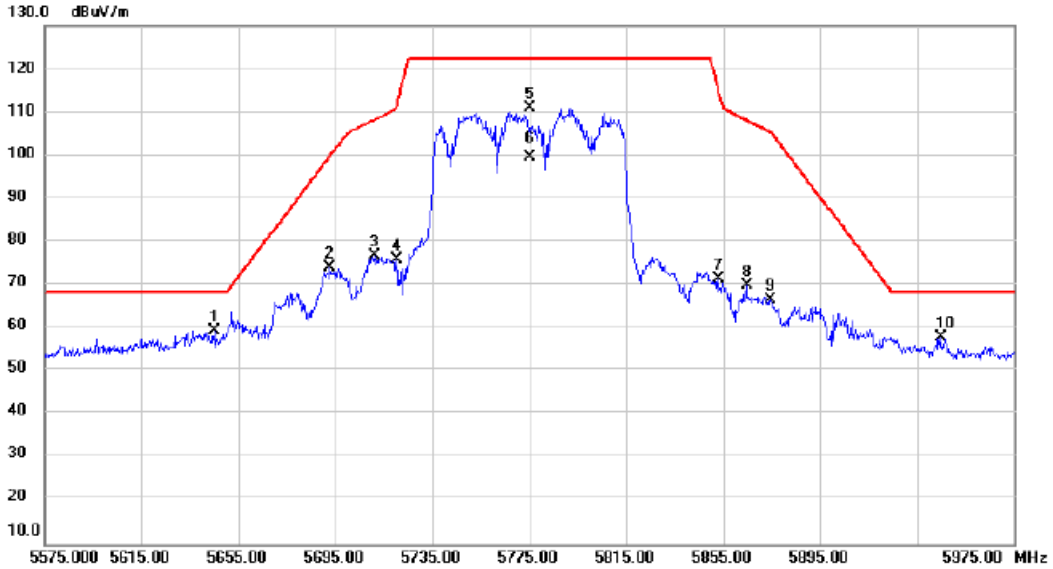
Test Mode	IEEE 802.11ax (HE80)	Test Date	2023/10/16
Test Frequency	5210MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5144.000	55.23	10.50	65.73	74.00	-8.27	peak			
2		5144.000	41.69	10.50	52.19	54.00	-1.81	AVG			
3	*	5210.000	100.63	10.51	111.14	68.20	42.94	peak			NO Limit
4	X	5210.000	89.52	10.51	100.03	68.20	31.83	AVG			NO Limit
5		5402.400	43.65	10.51	54.16	74.00	-19.84	peak			
6		5402.400	30.14	10.51	40.65	54.00	-13.35	AVG			

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

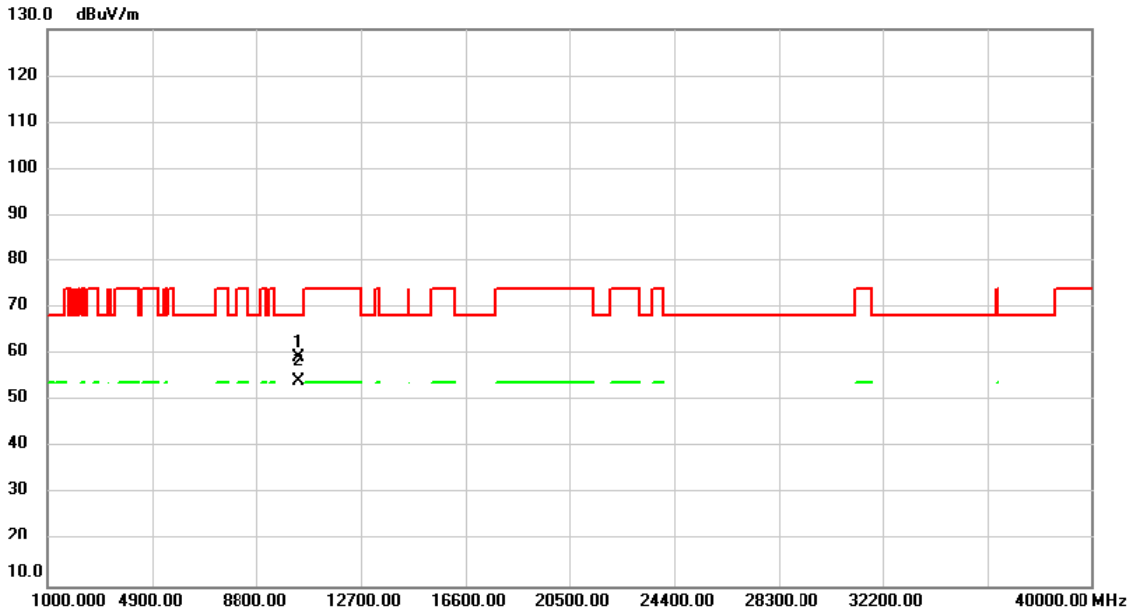
Test Mode	IEEE 802.11ax (HE80)	Test Date	2023/10/16
Test Frequency	5775MHz	Polarization	Vertical
Temp	23°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	5645.000	48.42	10.95	59.37	68.20	-8.83	peak			
2		5692.600	62.97	11.10	74.07	99.74	-25.67	peak			
3		5711.400	65.56	11.15	76.71	108.39	-31.68	peak			
4		5720.200	64.58	11.18	75.76	111.26	-35.50	peak			
5		5775.000	99.69	11.35	111.04	122.20	-11.16	peak			NO Limit
6		5775.000	88.26	11.35	99.61	122.20	-22.59	AVG			NO Limit
7		5853.000	59.81	11.59	71.40	115.36	-43.96	peak			
8		5864.600	58.13	11.62	69.75	108.11	-38.36	peak			
9		5874.600	54.81	11.65	66.46	105.31	-38.85	peak			
10		5944.600	45.85	11.86	57.71	68.20	-10.49	peak			

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

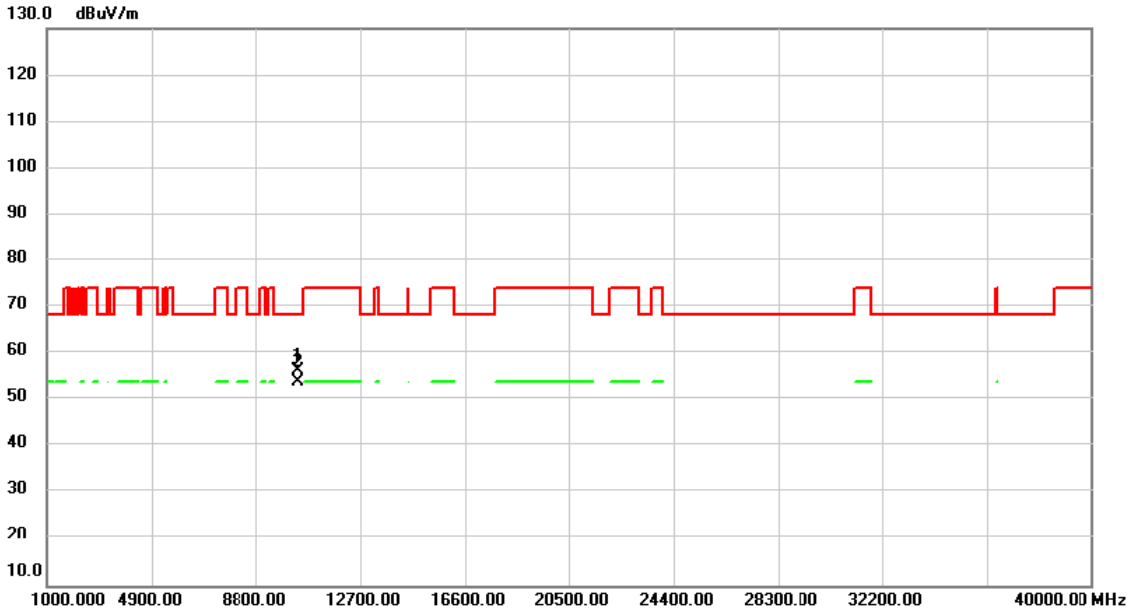
Test Mode	IEEE 802.11a	Test Date	2023/9/10
Test Frequency	5180MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	44.78	14.71	59.49	68.20	-8.71	peak	
2		10360.00	39.47	14.71	54.18	68.20	-14.02	AVG	

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

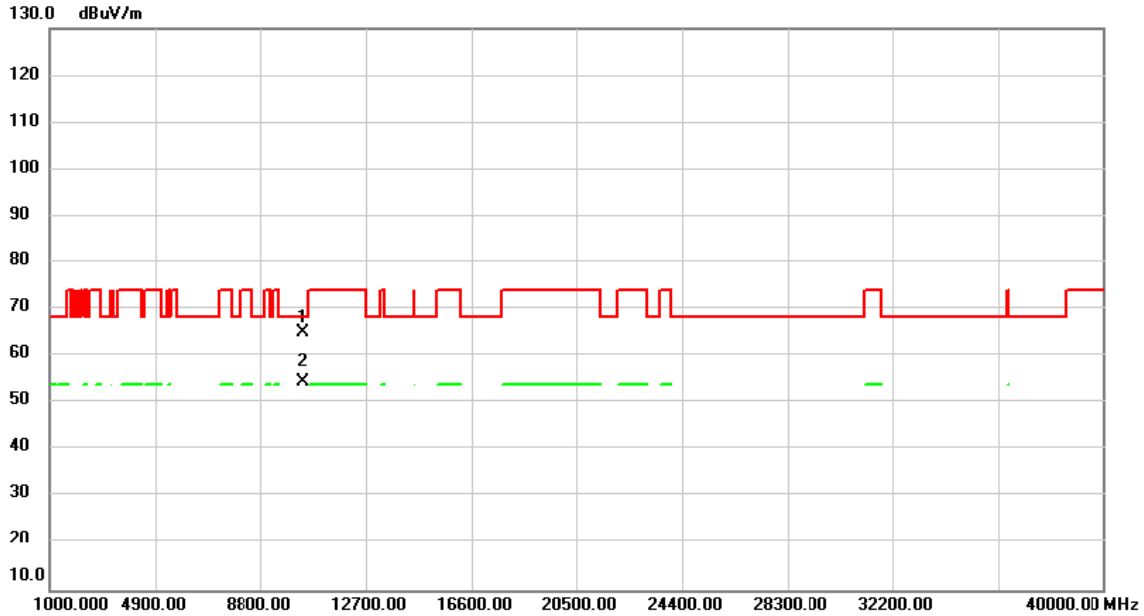
Test Mode	IEEE 802.11a	Test Date	2023/9/10
Test Frequency	5180MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	41.73	14.71	56.44	68.20	-11.76	peak	
2		10360.00	39.16	14.71	53.87	68.20	-14.33	AVG	

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

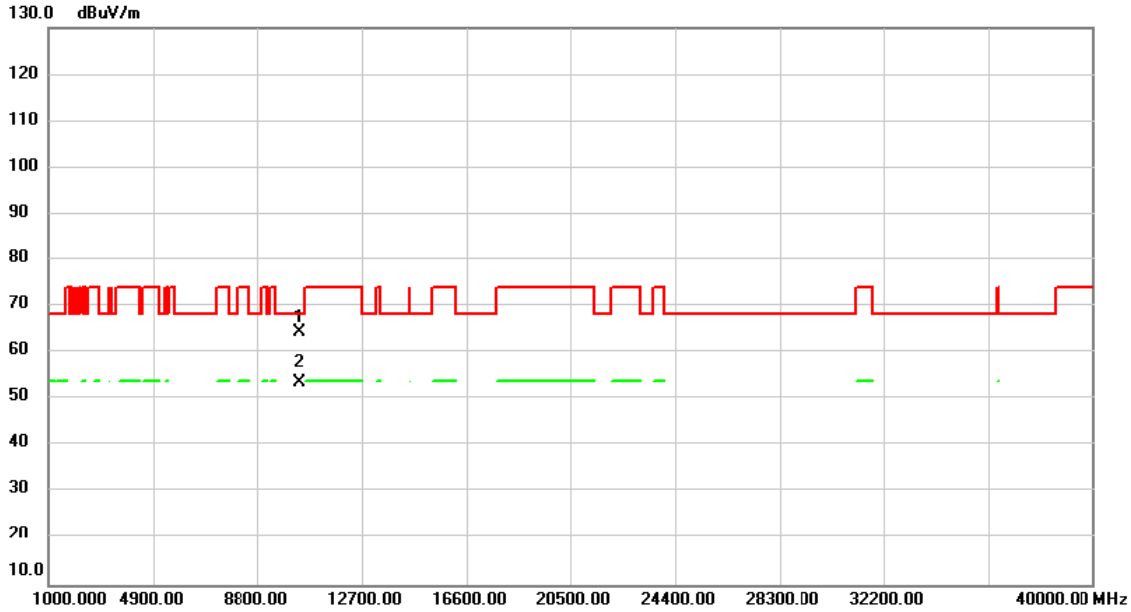
Test Mode	IEEE 802.11a	Test Date	2023/9/10
Test Frequency	5200MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10399.00	50.37	14.66	65.03	68.20	-3.17	peak	
2		10399.00	39.93	14.66	54.59	68.20	-13.61	AVG	

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

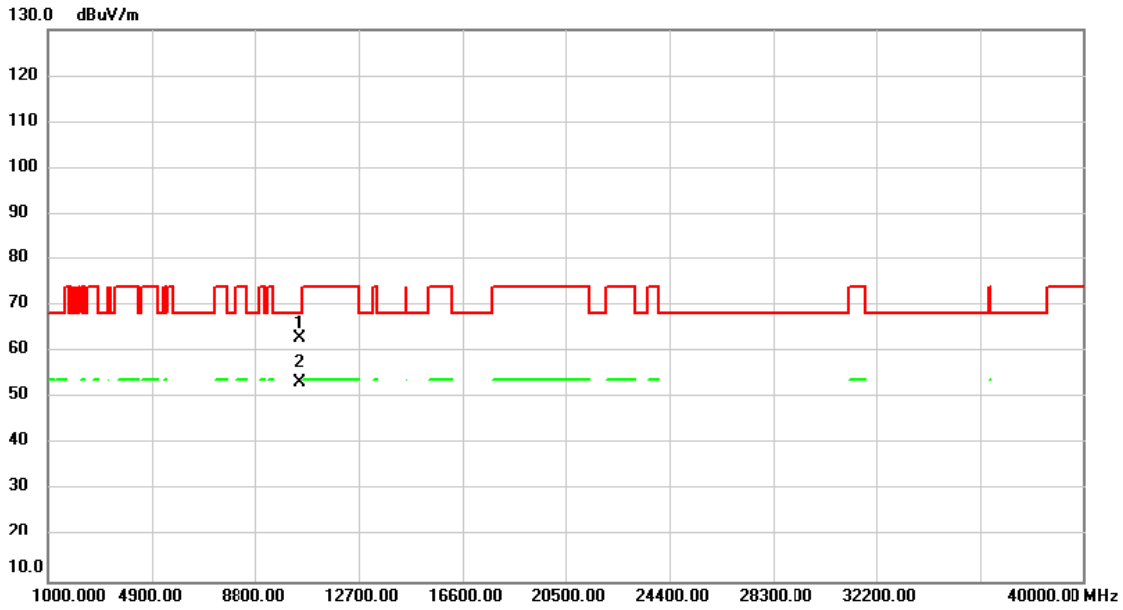
Test Mode	IEEE 802.11a	Test Date	2023/9/10
Test Frequency	5200MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10399.00	49.82	14.66	64.48	68.20	-3.72	peak	
2		10399.00	39.02	14.66	53.68	68.20	-14.52	AVG	

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

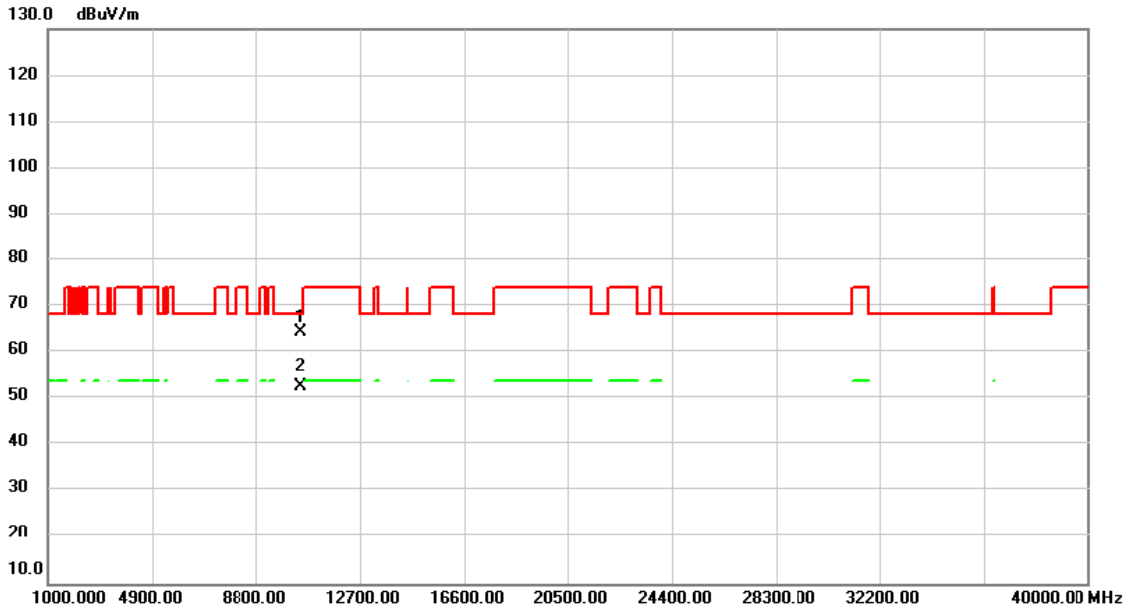
Test Mode	IEEE 802.11a	Test Date	2023/9/10
Test Frequency	5240MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10477.00	48.49	14.56	63.05	68.20	-5.15	peak	
2		10477.00	38.86	14.56	53.42	68.20	-14.78	AVG	

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

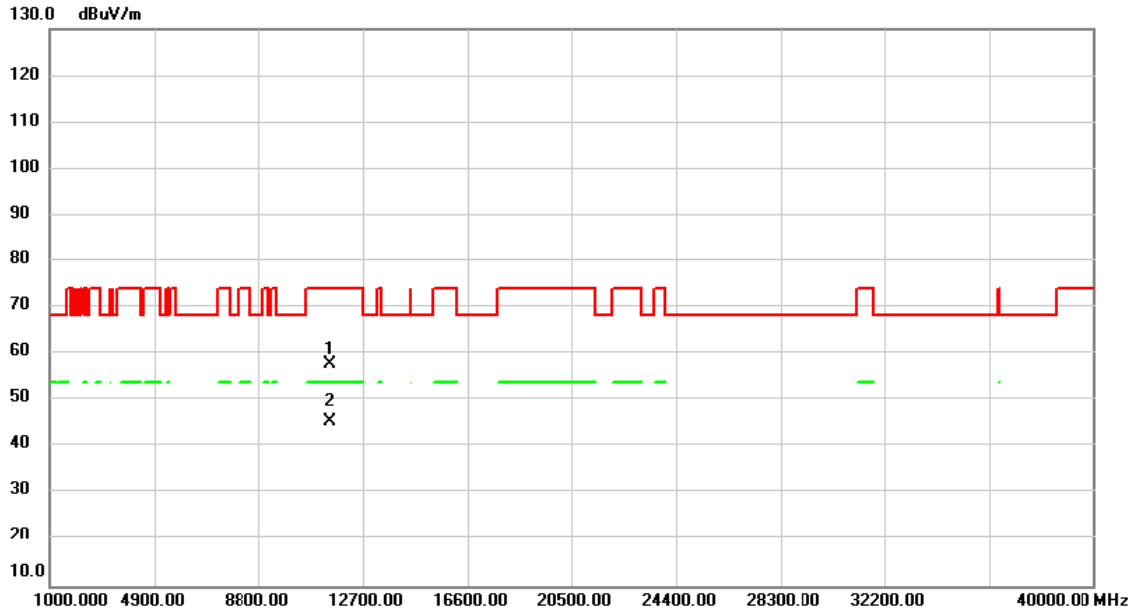
Test Mode	IEEE 802.11a	Test Date	2023/9/10
Test Frequency	5240MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10477.00	49.87	14.56	64.43	68.20	-3.77	peak	
2		10477.00	38.16	14.56	52.72	68.20	-15.48	AVG	

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

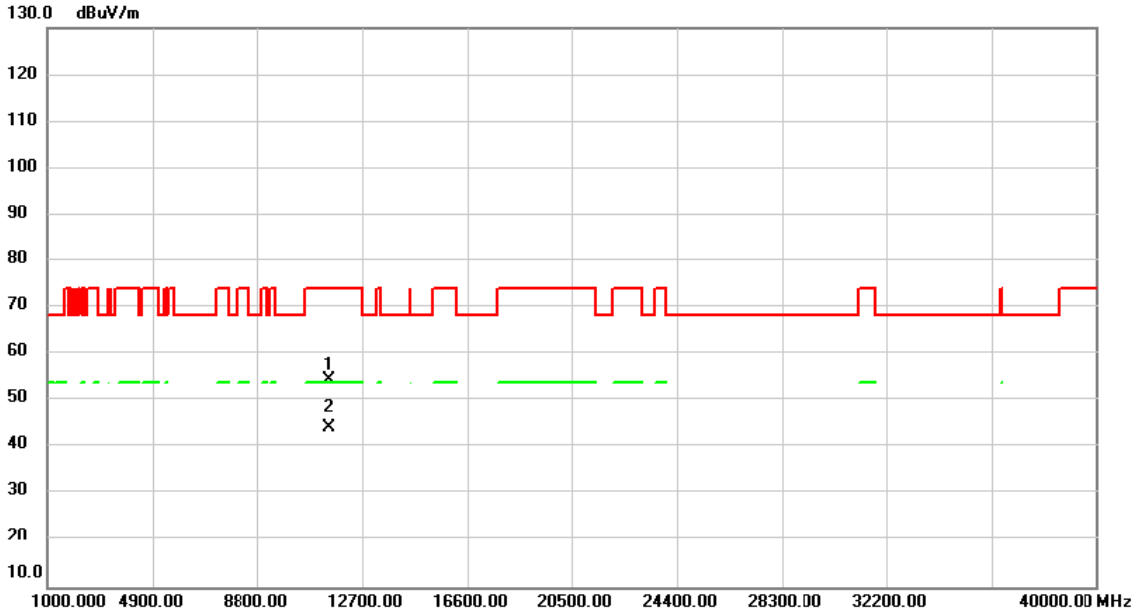
Test Mode	IEEE 802.11a	Test Date	2023/9/10
Test Frequency	5745MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	42.35	15.40	57.75	74.00	-16.25	peak	
2	*	11490.00	30.25	15.40	45.65	54.00	-8.35	AVG	

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

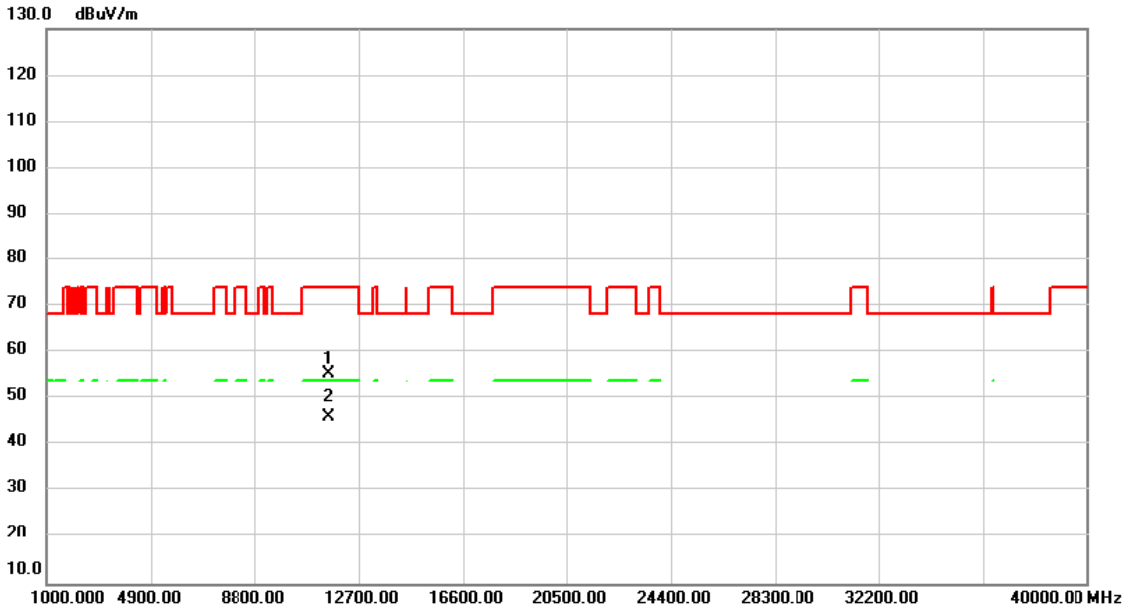
Test Mode	IEEE 802.11a	Test Date	2023/9/10
Test Frequency	5745MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	39.06	15.40	54.46	74.00	-19.54	peak	
2	*	11490.00	29.01	15.40	44.41	54.00	-9.59	AVG	

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

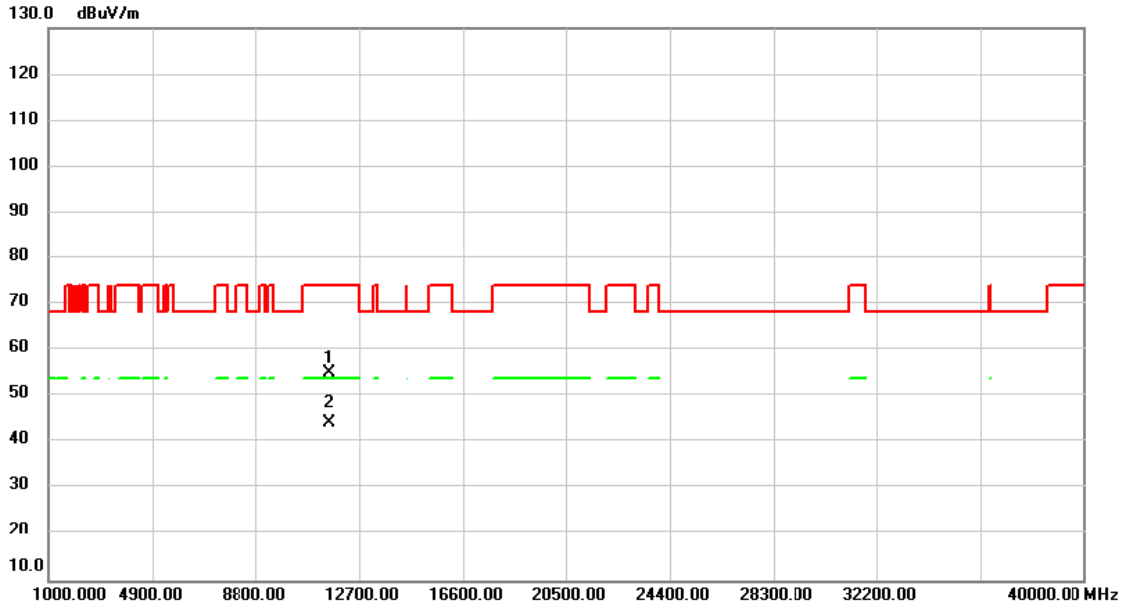
Test Mode	IEEE 802.11a	Test Date	2023/9/10
Test Frequency	5785MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	40.14	15.43	55.57	74.00	-18.43	peak	
2	*	11570.00	30.61	15.43	46.04	54.00	-7.96	AVG	

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

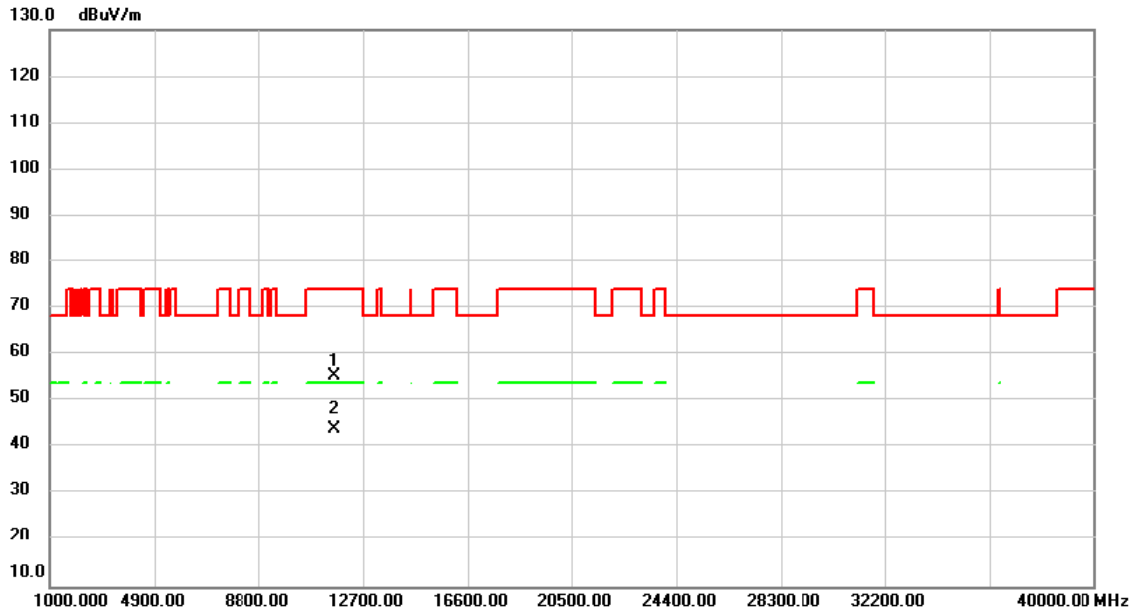
Test Mode	IEEE 802.11a	Test Date	2023/9/10
Test Frequency	5785MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	39.61	15.43	55.04	74.00	-18.96	peak	
2	*	11570.00	29.00	15.43	44.43	54.00	-9.57	AVG	

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

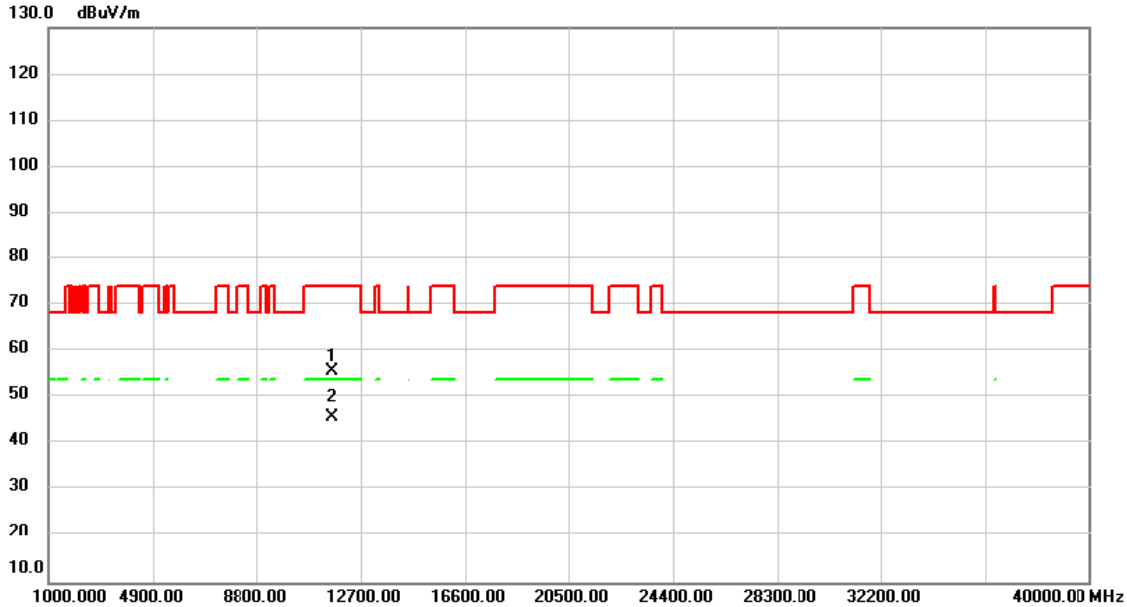
Test Mode	IEEE 802.11a	Test Date	2023/9/10
Test Frequency	5825MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	39.97	15.46	55.43	74.00	-18.57	peak	
2	*	11650.00	28.58	15.46	44.04	54.00	-9.96	AVG	

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

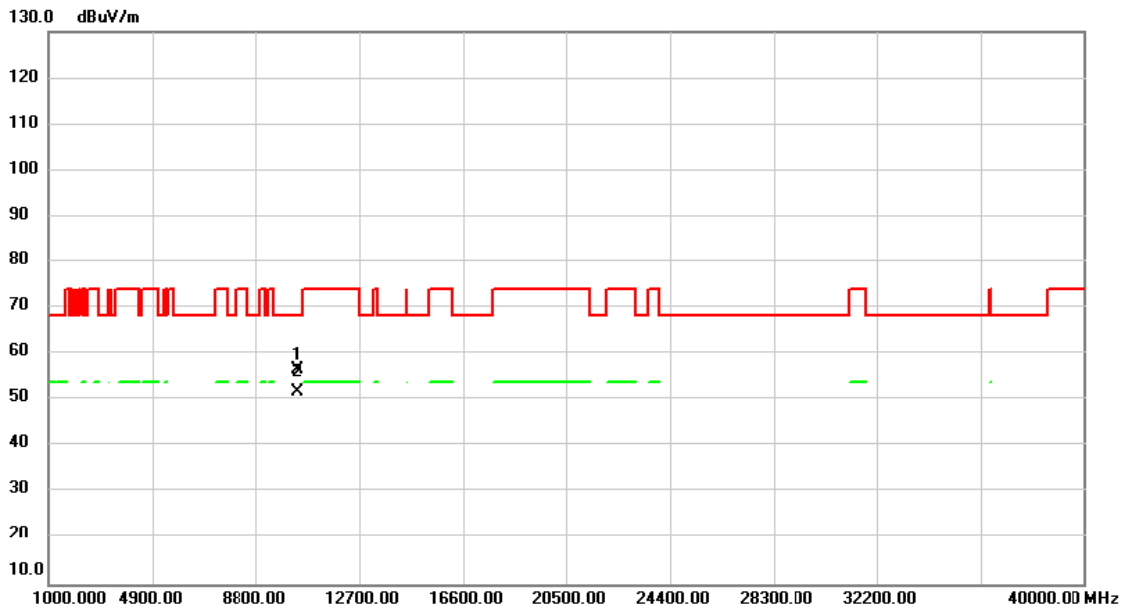
Test Mode	IEEE 802.11a	Test Date	2023/9/10
Test Frequency	5825MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	40.21	15.46	55.67	74.00	-18.33	peak	
2	*	11650.00	30.42	15.46	45.88	54.00	-8.12	AVG	

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

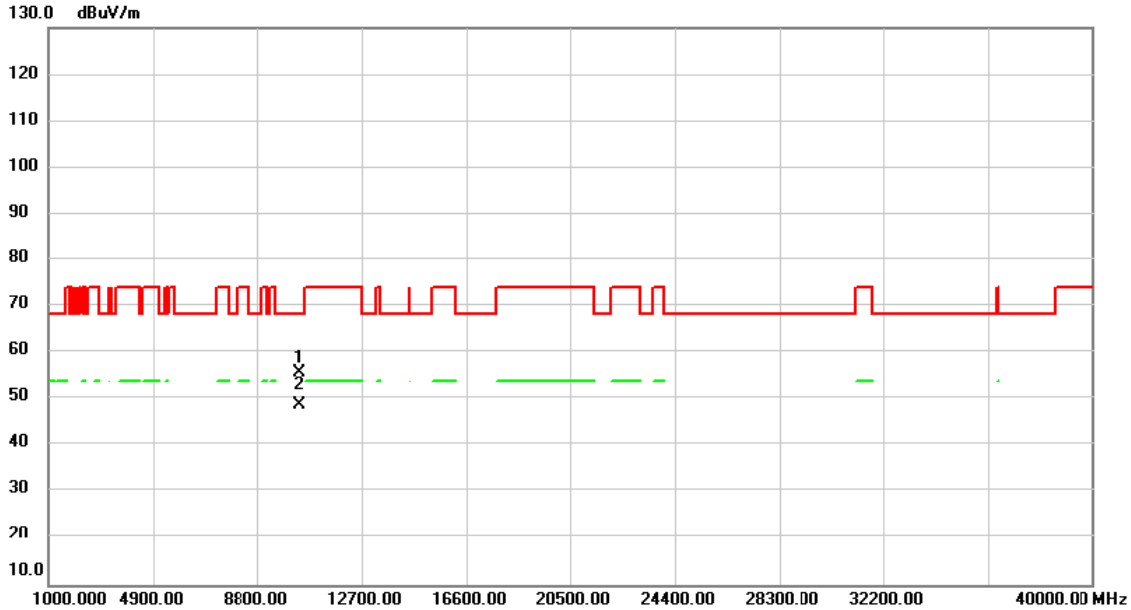
Test Mode	IEEE 802.11n (HT20)	Test Date	2023/9/10
Test Frequency	5180MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	41.94	14.71	56.65	68.20	-11.55	peak	
2		10360.00	37.14	14.71	51.85	68.20	-16.35	AVG	

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

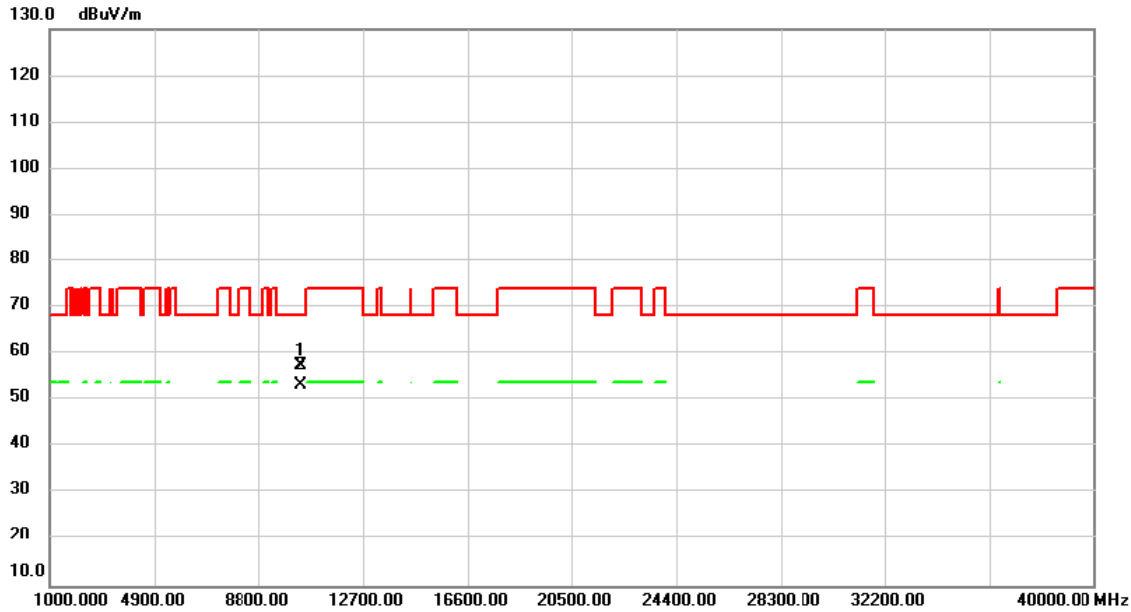
Test Mode	IEEE 802.11n (HT20)	Test Date	2023/9/10
Test Frequency	5180MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	40.98	14.71	55.69	68.20	-12.51	peak	
2		10360.00	34.09	14.71	48.80	68.20	-19.40	AVG	

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

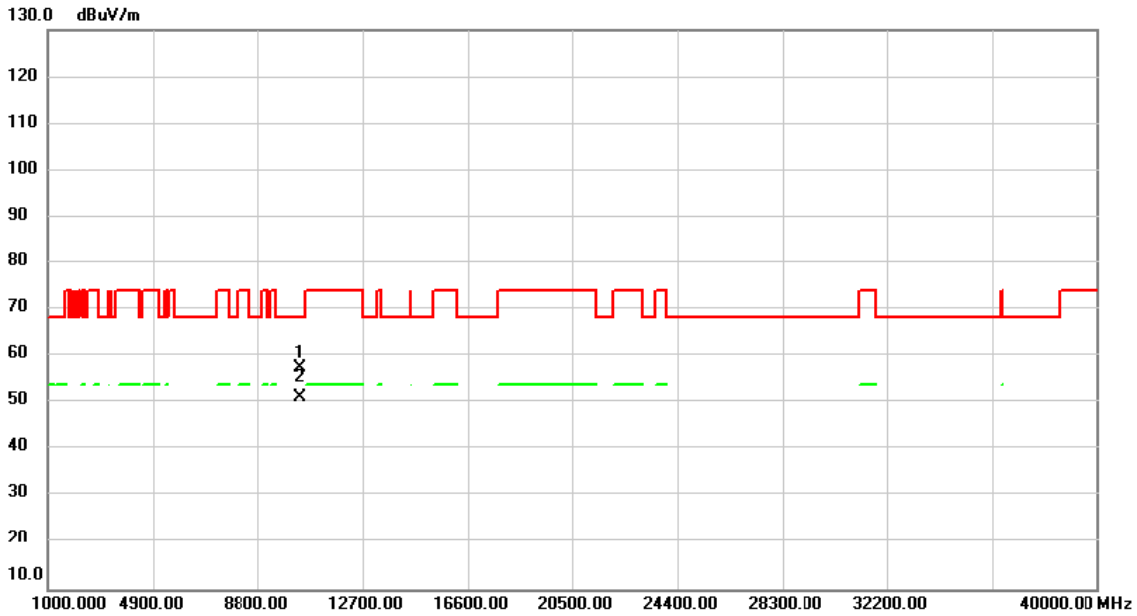
Test Mode	IEEE 802.11n (HT20)	Test Date	2023/9/10
Test Frequency	5200MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	42.95	14.66	57.61	68.20	-10.59	peak	
2		10400.00	38.64	14.66	53.30	68.20	-14.90	AVG	

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

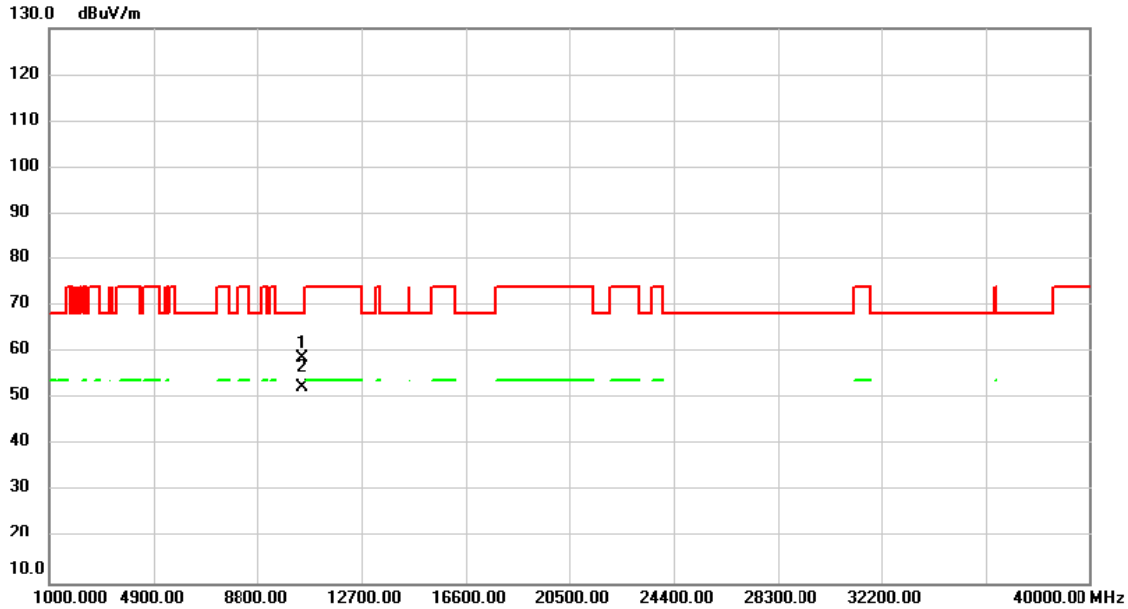
Test Mode	IEEE 802.11n (HT20)	Test Date	2023/9/10
Test Frequency	5200MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	42.87	14.66	57.53	68.20	-10.67	peak	
2		10400.00	36.65	14.66	51.31	68.20	-16.89	AVG	

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

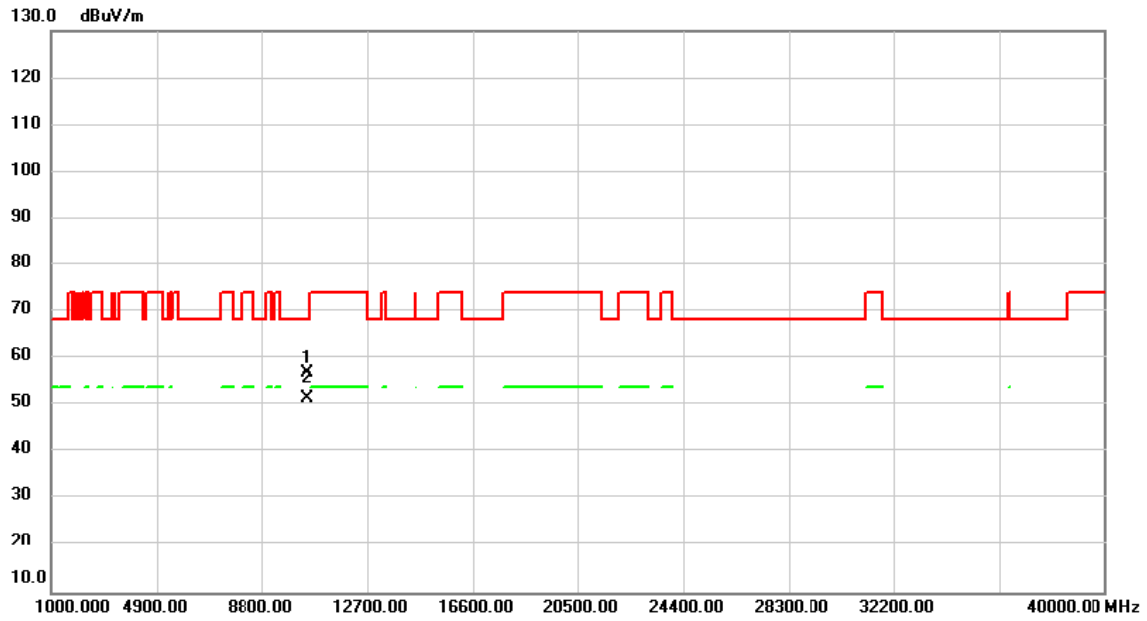
Test Mode	IEEE 802.11n (HT20)	Test Date	2023/9/10
Test Frequency	5240MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	44.20	14.55	58.75	68.20	-9.45	peak	
2		10480.00	37.93	14.55	52.48	68.20	-15.72	AVG	

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

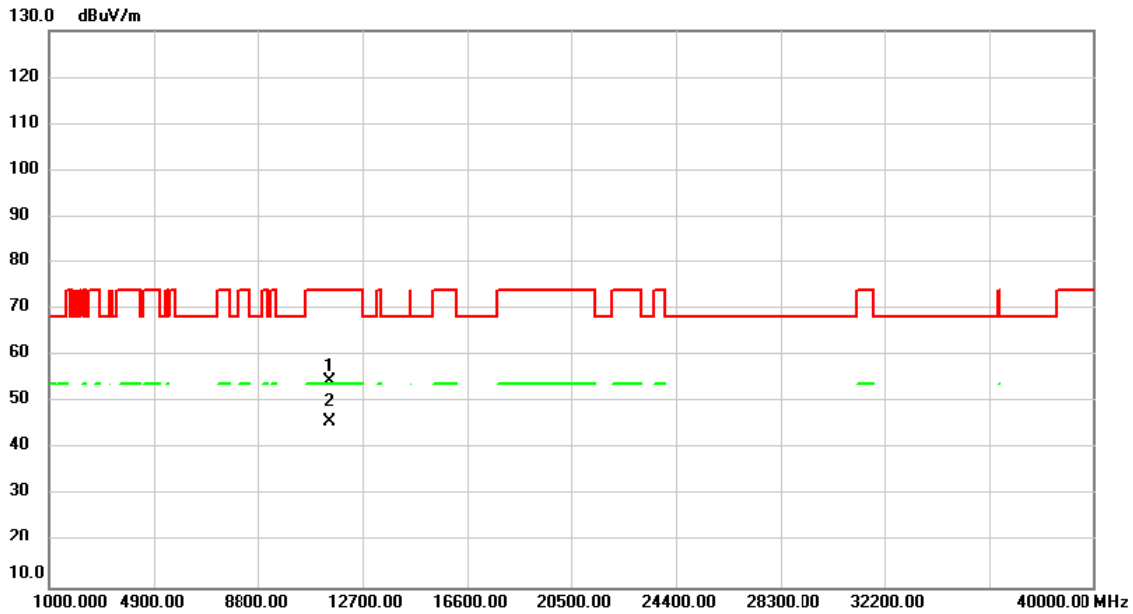
Test Mode	IEEE 802.11n (HT20)	Test Date	2023/9/10
Test Frequency	5240MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	42.40	14.55	56.95	68.20	-11.25	peak	
2		10480.00	37.08	14.55	51.63	68.20	-16.57	AVG	

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

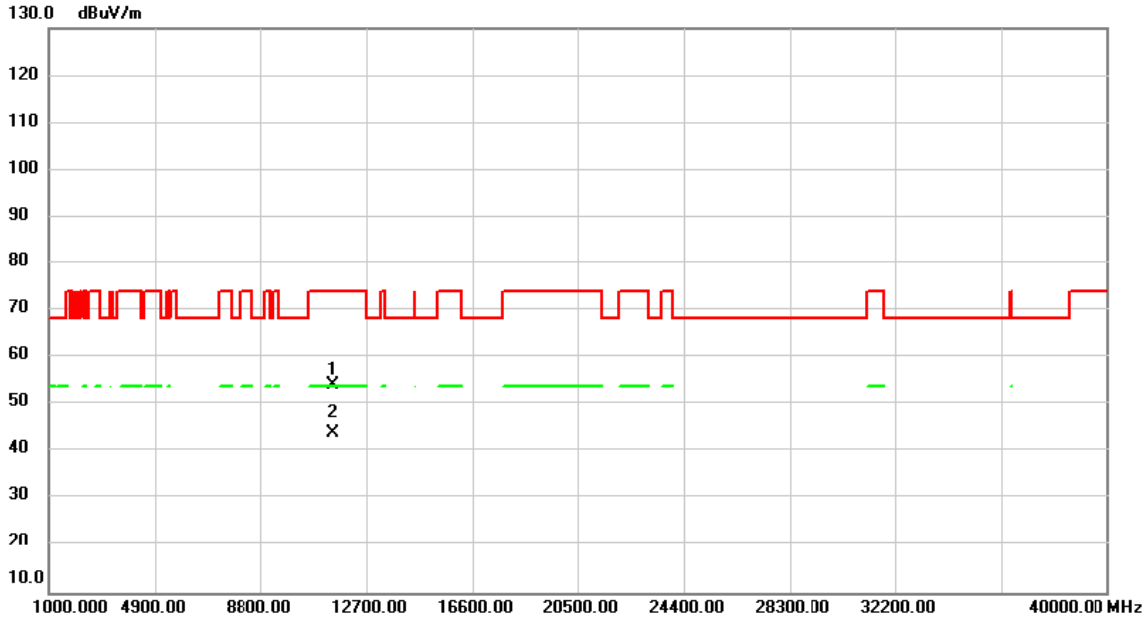
Test Mode	IEEE 802.11n (HT20)	Test Date	2023/9/10
Test Frequency	5745MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	39.06	15.40	54.46	74.00	-19.54	peak	
2	*	11490.00	30.48	15.40	45.88	54.00	-8.12	AVG	

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

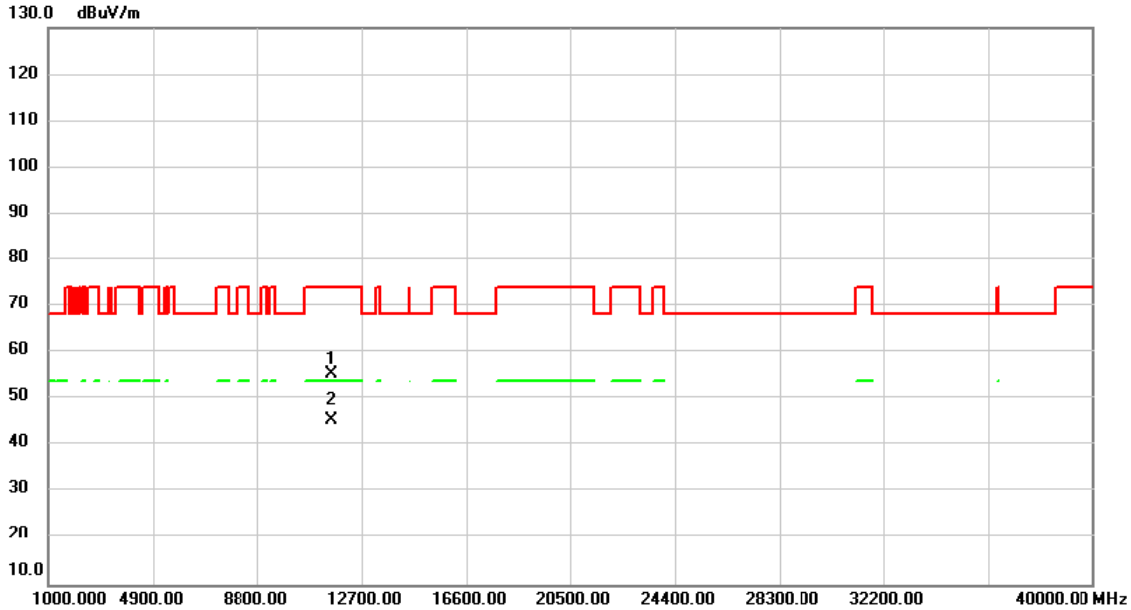
Test Mode	IEEE 802.11n (HT20)	Test Date	2023/9/10
Test Frequency	5745MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	38.92	15.40	54.32	74.00	-19.68	peak	
2	*	11490.00	28.58	15.40	43.98	54.00	-10.02	AVG	

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

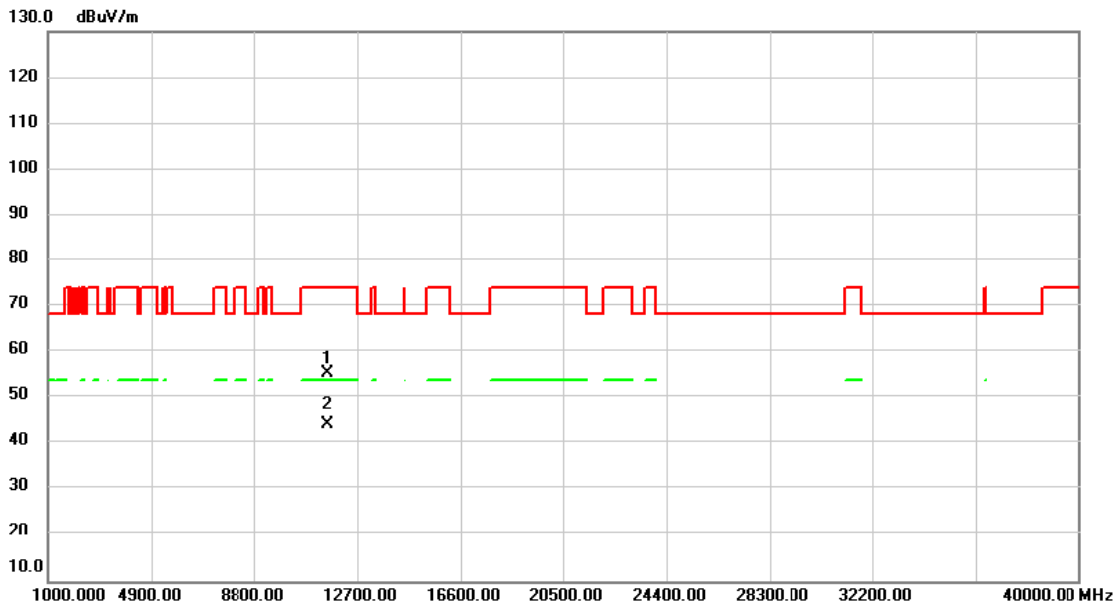
Test Mode	IEEE 802.11n (HT20)	Test Date	2023/9/10
Test Frequency	5785MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	40.10	15.43	55.53	74.00	-18.47	peak	
2	*	11570.00	30.19	15.43	45.62	54.00	-8.38	AVG	

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

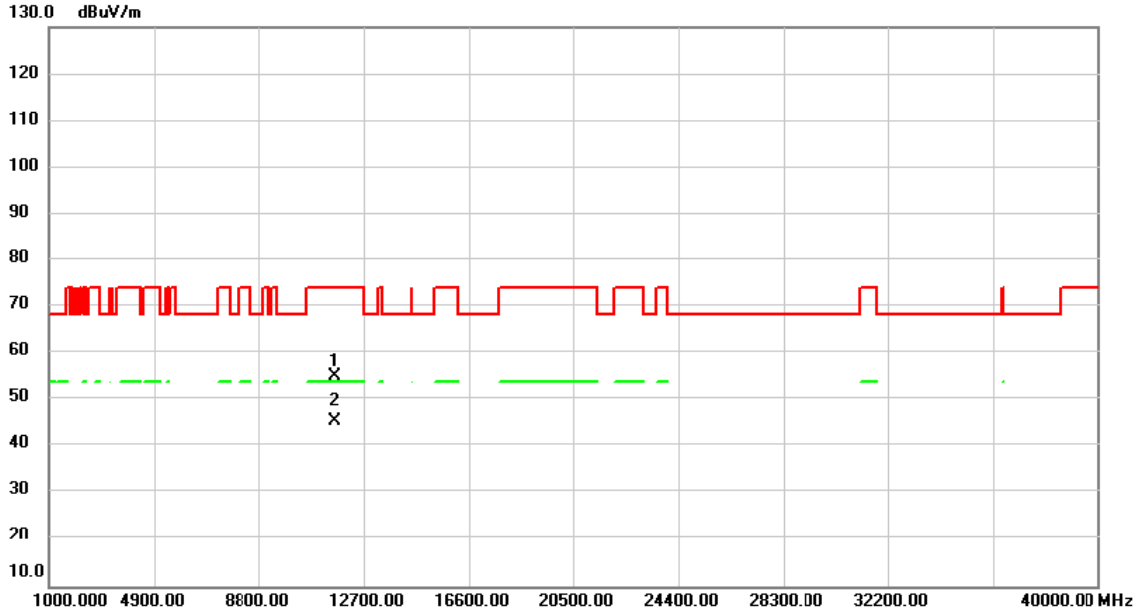
Test Mode	IEEE 802.11n (HT20)	Test Date	2023/9/10
Test Frequency	5785MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	39.93	15.43	55.36	74.00	-18.64	peak	
2	*	11570.00	28.87	15.43	44.30	54.00	-9.70	AVG	

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

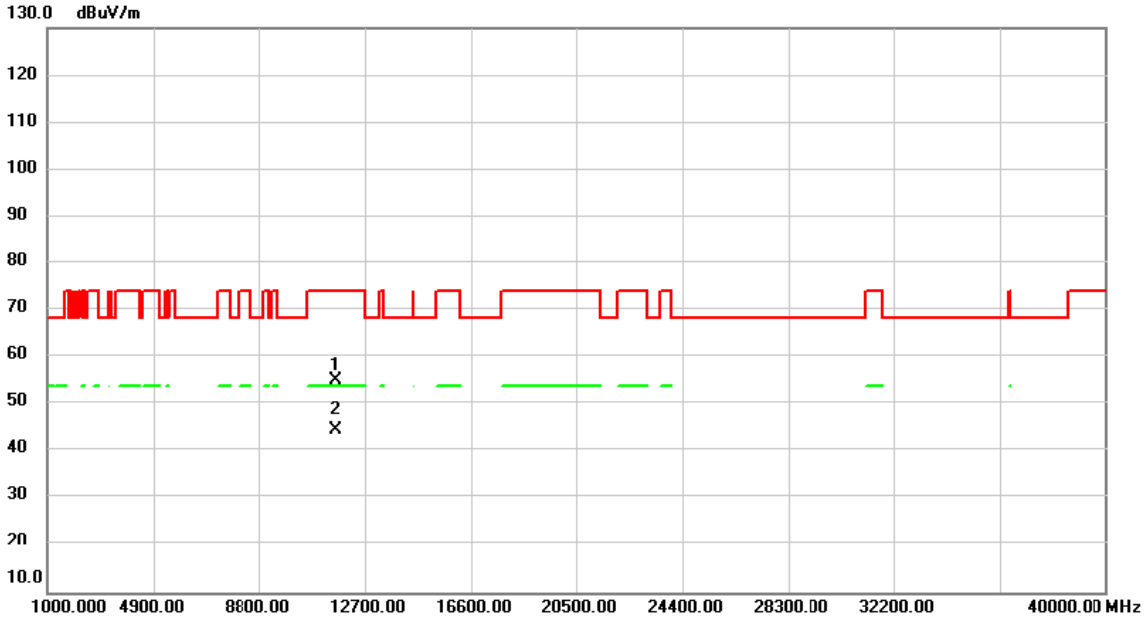
Test Mode	IEEE 802.11n (HT20)	Test Date	2023/9/10
Test Frequency	5825MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	39.74	15.46	55.20	74.00	-18.80	peak	
2	*	11650.00	30.19	15.46	45.65	54.00	-8.35	AVG	

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

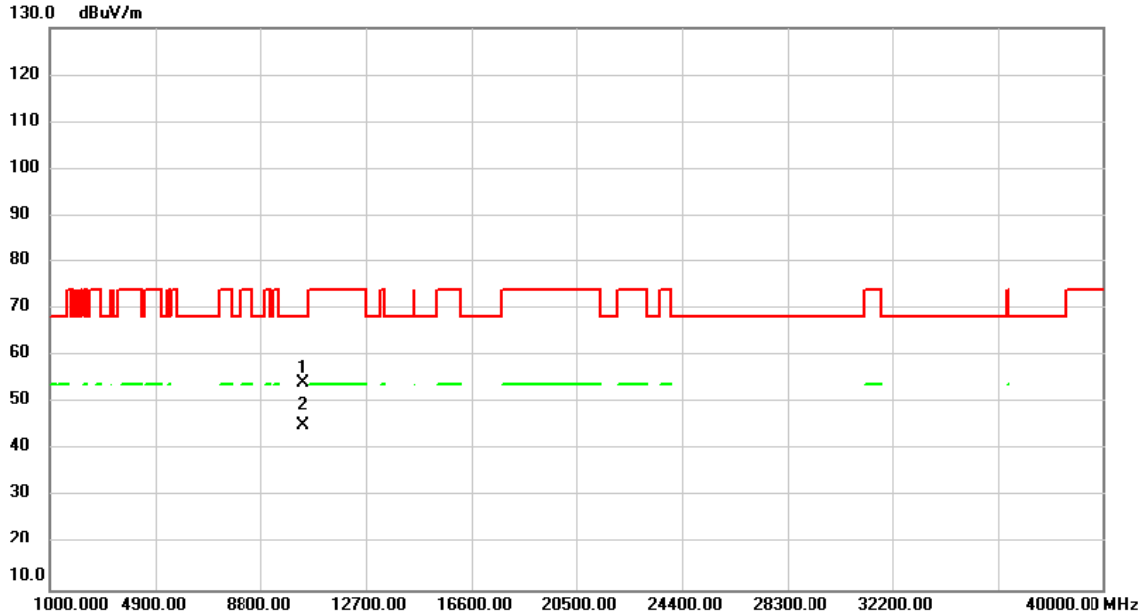
Test Mode	IEEE 802.11n (HT20)	Test Date	2023/9/10
Test Frequency	5825MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	39.77	15.46	55.23	74.00	-18.77	peak	
2	*	11650.00	29.07	15.46	44.53	54.00	-9.47	AVG	

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

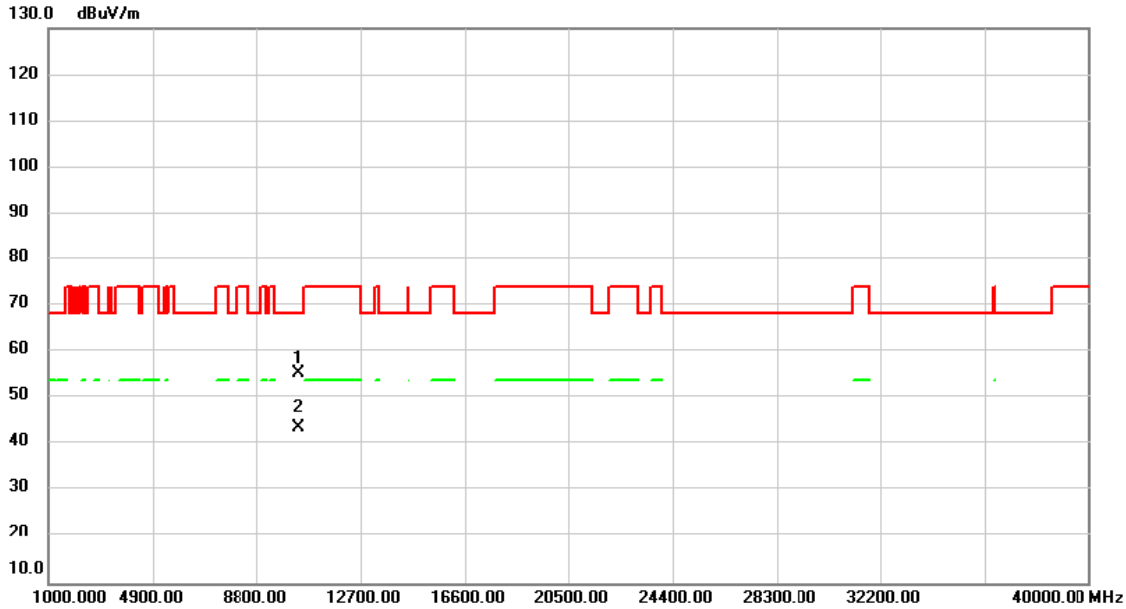
Test Mode	IEEE 802.11n (HT40)	Test Date	2023/9/10
Test Frequency	5190MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10380.00	39.64	14.69	54.33	68.20	-13.87	peak	
2		10380.00	30.54	14.69	45.23	68.20	-22.97	AVG	

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

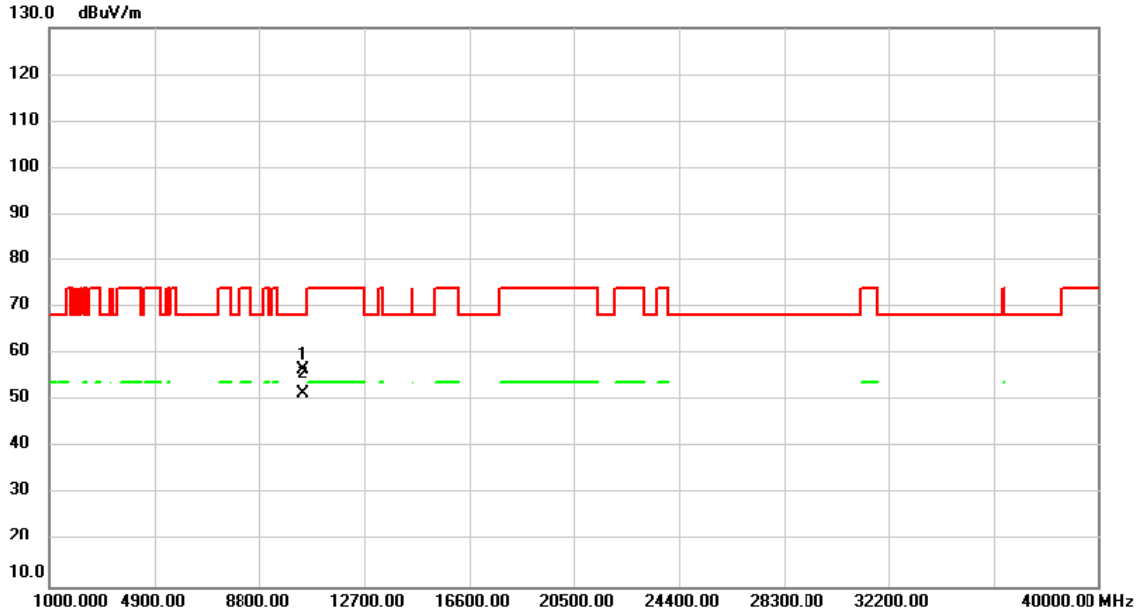
Test Mode	IEEE 802.11n (HT40)	Test Date	2023/9/10
Test Frequency	5190MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10380.00	40.87	14.69	55.56	68.20	-12.64	peak	
2		10380.00	29.06	14.69	43.75	68.20	-24.45	AVG	

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

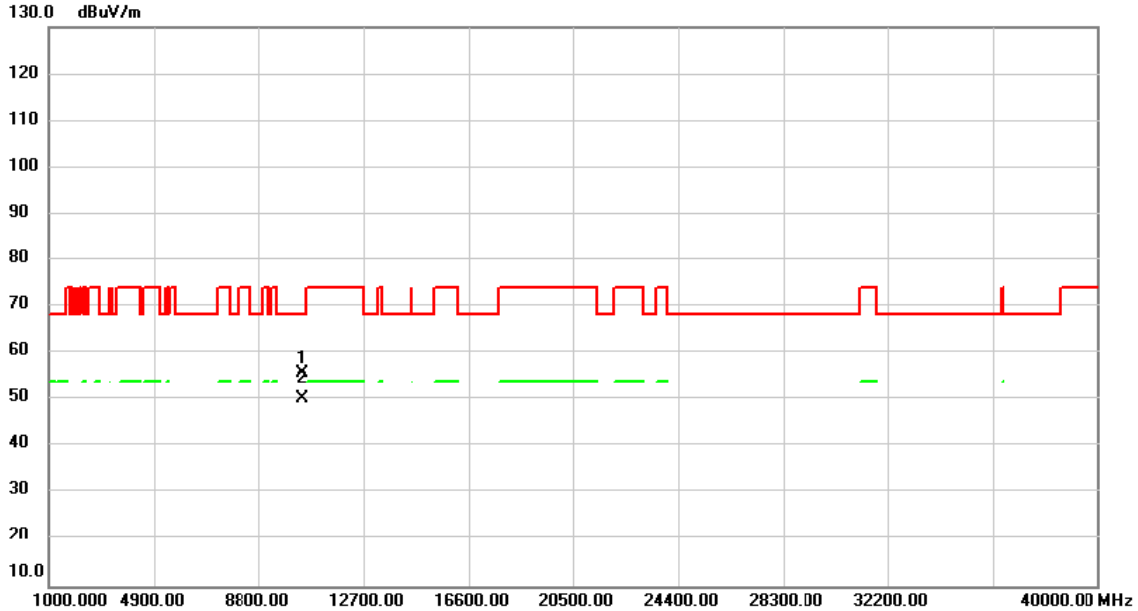
Test Mode	IEEE 802.11n (HT40)	Test Date	2023/9/10
Test Frequency	5230MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.00	41.95	14.58	56.53	68.20	-11.67	peak	
2		10460.00	36.86	14.58	51.44	68.20	-16.76	AVG	

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

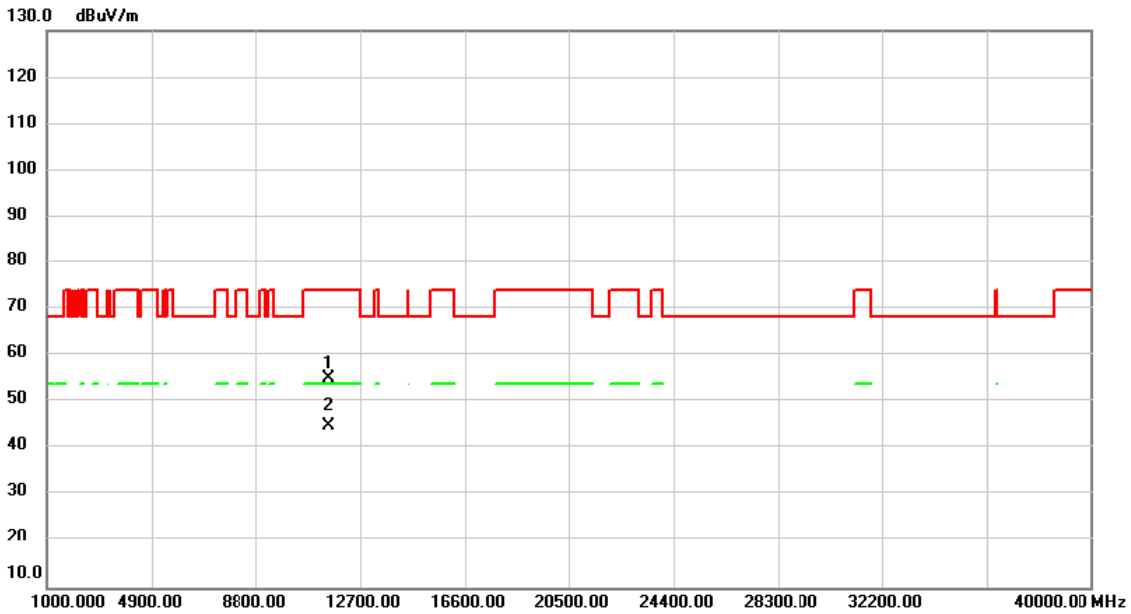
Test Mode	IEEE 802.11n (HT40)	Test Date	2023/9/10
Test Frequency	5230MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.00	41.18	14.58	55.76	68.20	-12.44	peak	
2		10460.00	35.70	14.58	50.28	68.20	-17.92	AVG	

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

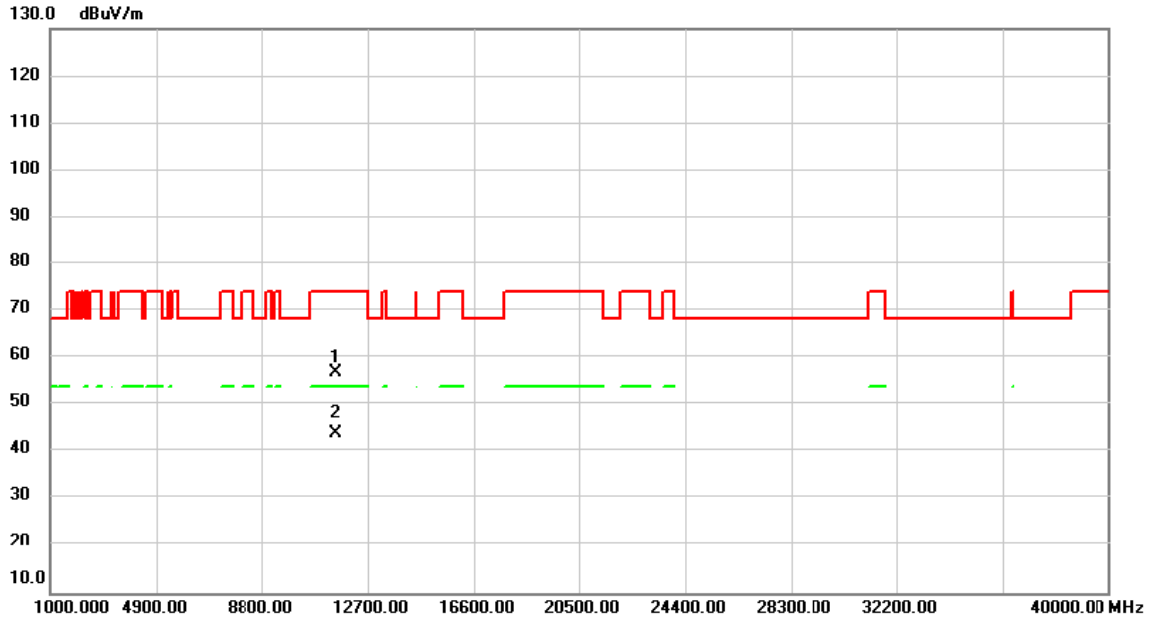
Test Mode	IEEE 802.11n (HT40)	Test Date	2023/9/10
Test Frequency	5755MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11510.00	39.65	15.41	55.06	74.00	-18.94	peak	
2	*	11510.00	29.51	15.41	44.92	54.00	-9.08	AVG	

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

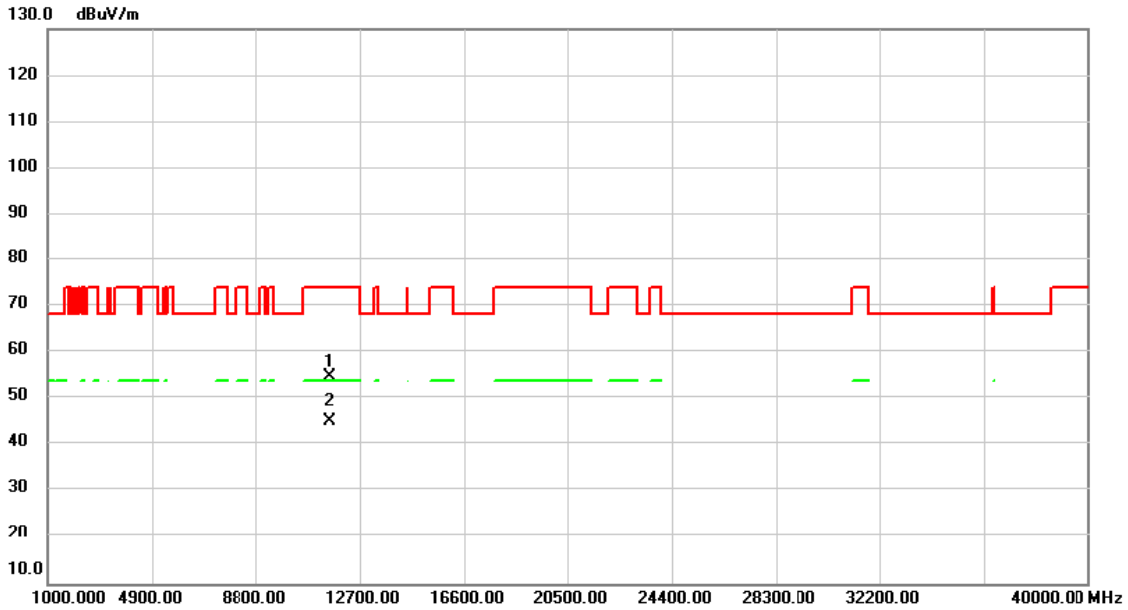
Test Mode	IEEE 802.11n (HT40)	Test Date	2023/9/10
Test Frequency	5755MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11510.00	41.53	15.41	56.94	74.00	-17.06	peak	
2	*	11510.00	28.68	15.41	44.09	54.00	-9.91	AVG	

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

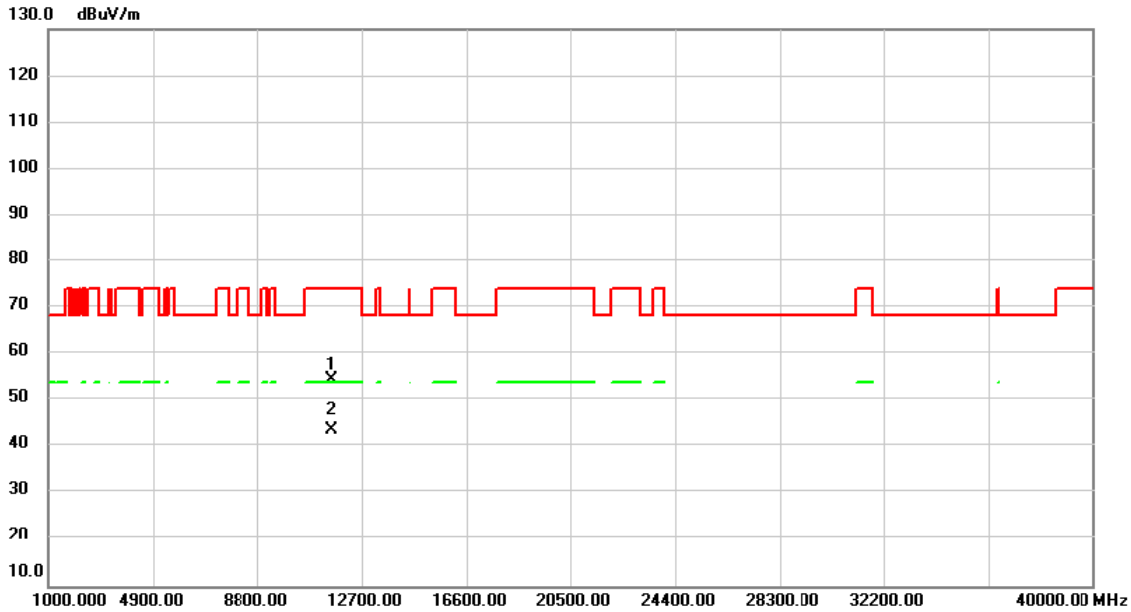
Test Mode	IEEE 802.11n (HT40)	Test Date	2023/9/10
Test Frequency	5795MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11590.00	39.33	15.44	54.77	74.00	-19.23	peak	
2	*	11590.00	29.68	15.44	45.12	54.00	-8.88	AVG	

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

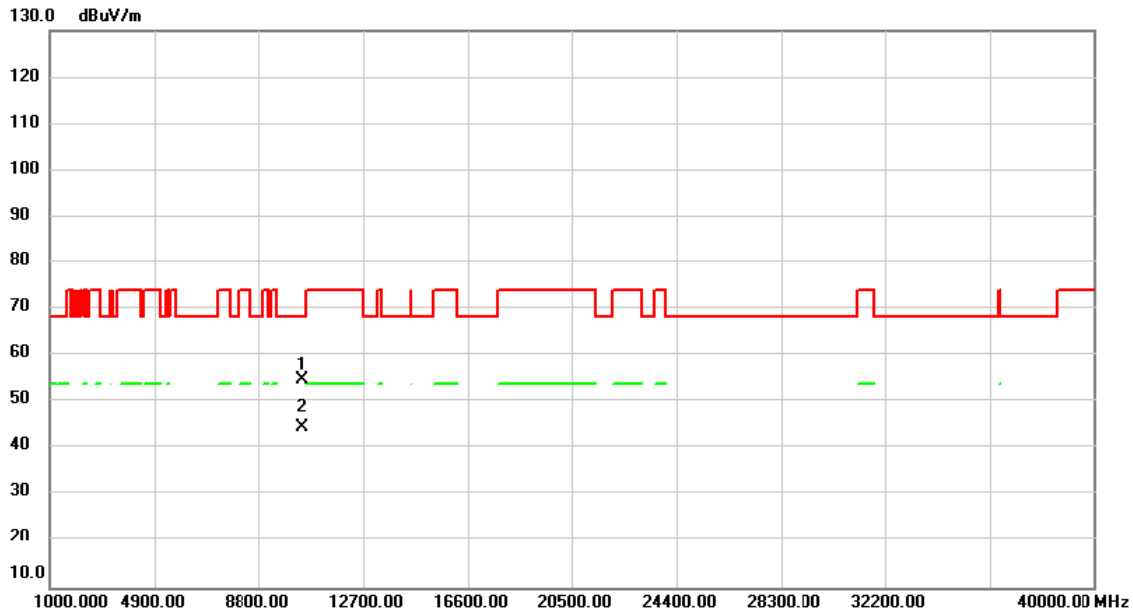
Test Mode	IEEE 802.11n (HT40)	Test Date	2023/9/10
Test Frequency	5795MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11590.00	39.01	15.44	54.45	74.00	-19.55	peak	
2	*	11590.00	28.40	15.44	43.84	54.00	-10.16	AVG	

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

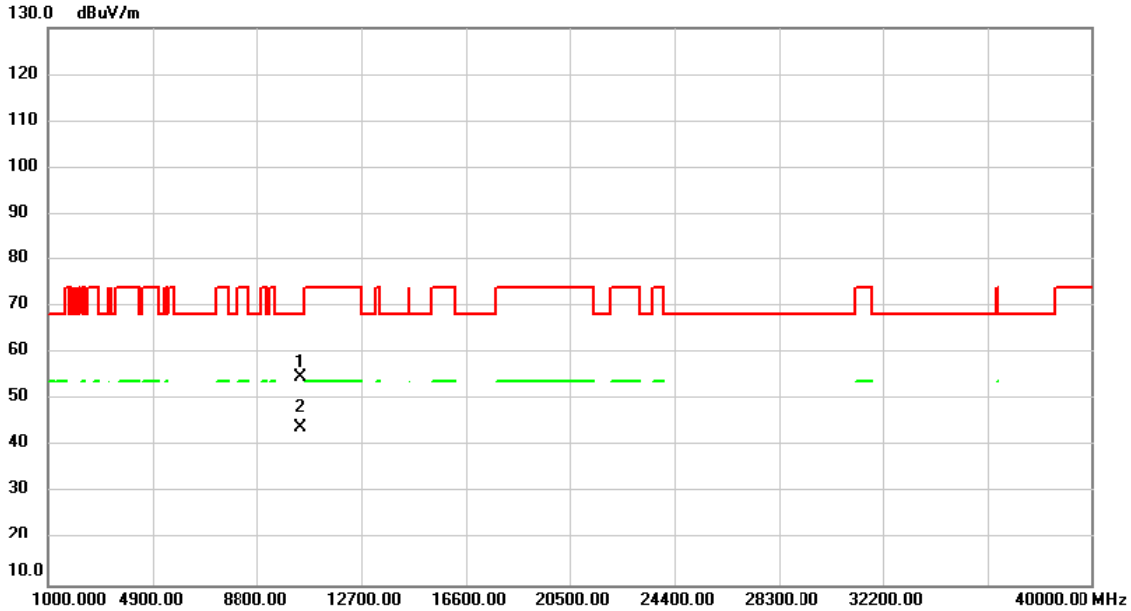
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2023/9/10
Test Frequency	5210MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10420.00	40.16	14.63	54.79	68.20	-13.41	peak	
2		10420.00	30.06	14.63	44.69	68.20	-23.51	AVG	

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

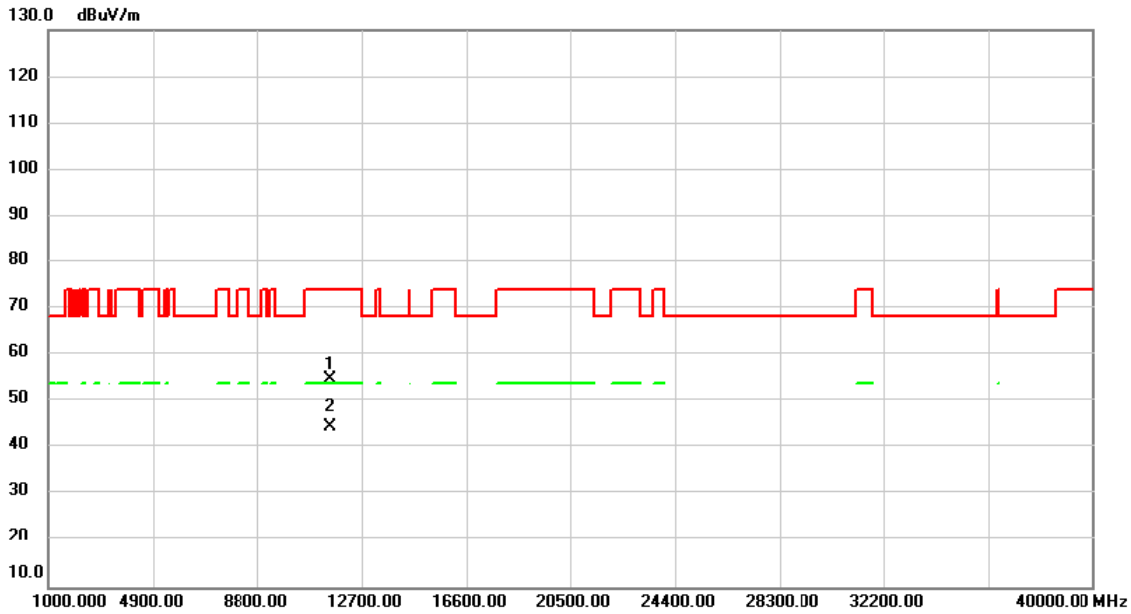
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2023/9/10
Test Frequency	5210MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10420.00	40.07	14.63	54.70	68.20	-13.50	peak	
2		10420.00	29.54	14.63	44.17	68.20	-24.03	AVG	

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

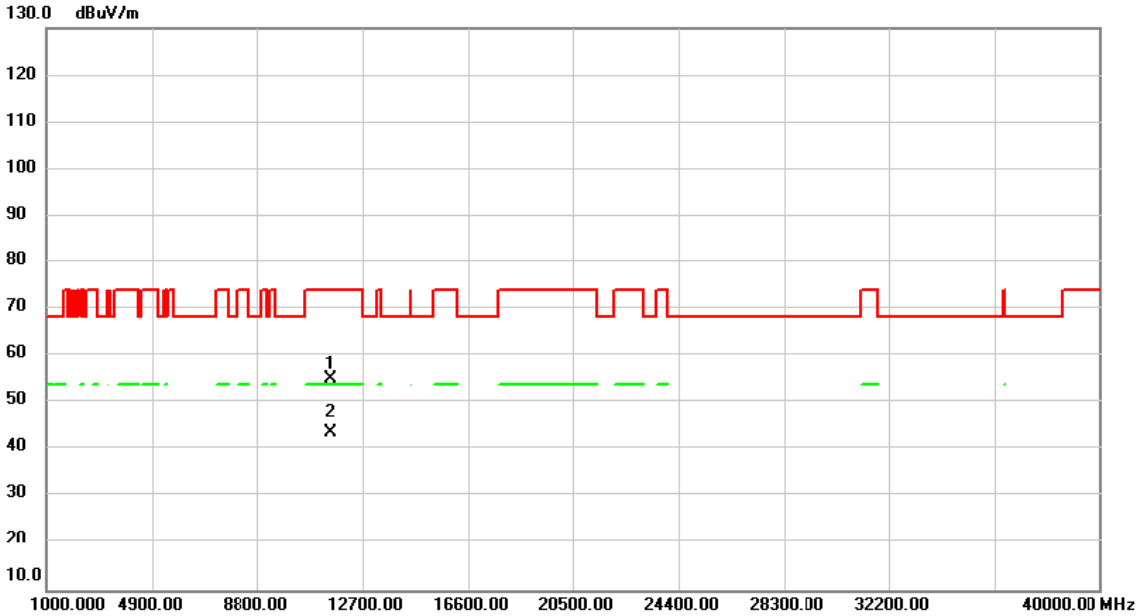
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2023/9/10
Test Frequency	5775MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11550.00	39.43	15.42	54.85	74.00	-19.15	peak	
2	*	11550.00	29.27	15.42	44.69	54.00	-9.31	AVG	

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

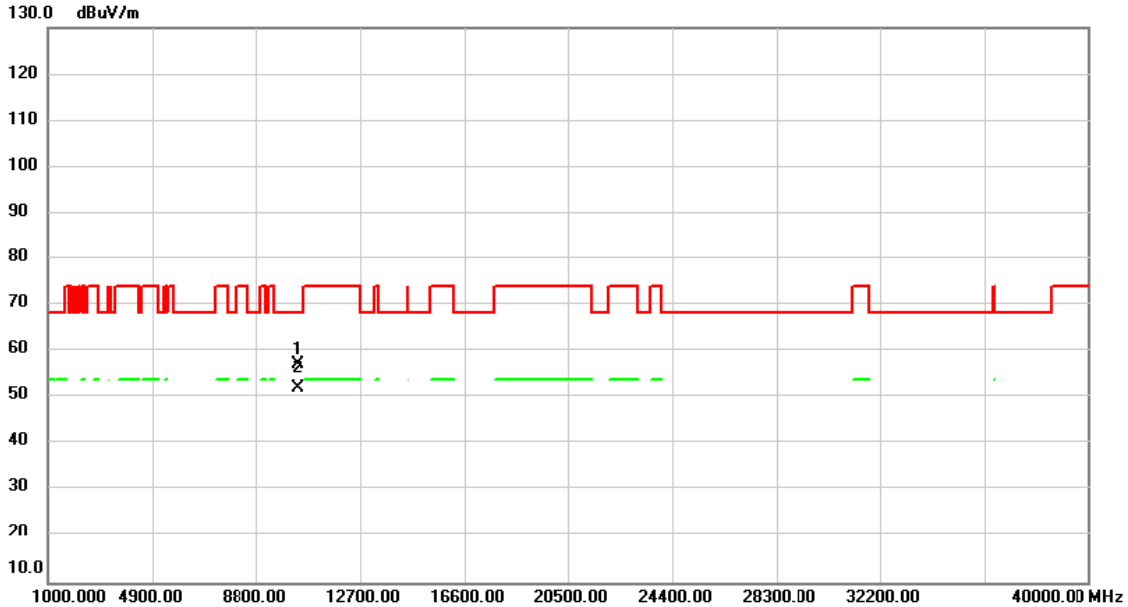
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2023/9/10
Test Frequency	5775MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11550.00	39.62	15.42	55.04	74.00	-18.96	peak	
2	*	11550.00	28.23	15.42	43.65	54.00	-10.35	AVG	

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

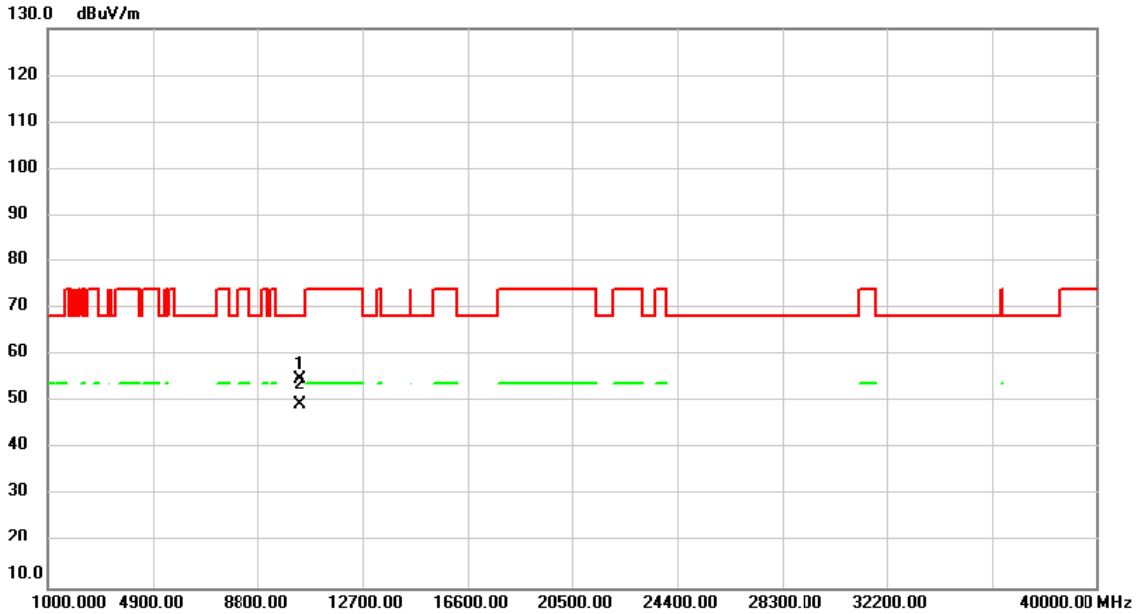
Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/9/10
Test Frequency	5180MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	42.60	14.71	57.31	68.20	-10.89	peak	
2		10360.00	37.59	14.71	52.30	68.20	-15.90	AVG	

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

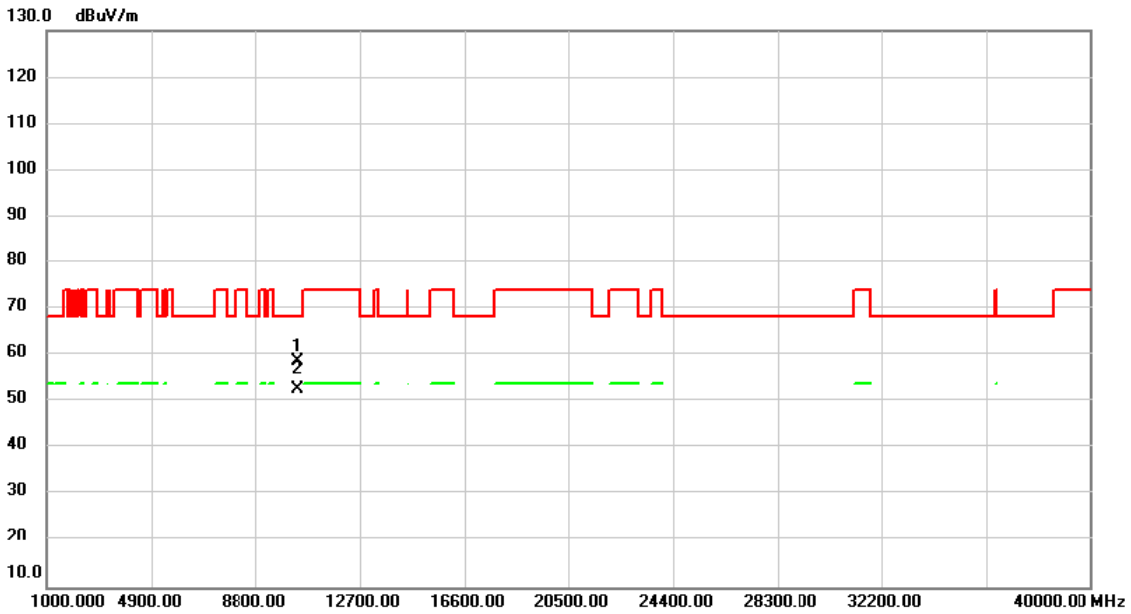
Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/9/10
Test Frequency	5180MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	40.00	14.71	54.71	68.20	-13.49	peak	
2		10360.00	34.69	14.71	49.40	68.20	-18.80	AVG	

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

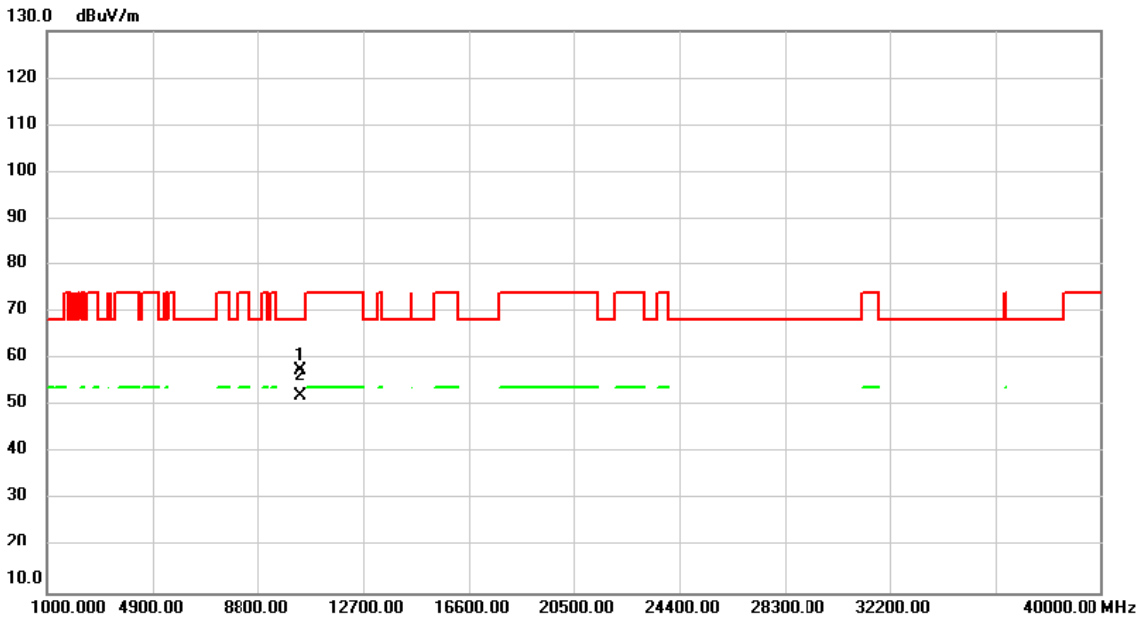
Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/9/10
Test Frequency	5200MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	44.01	14.66	58.67	68.20	-9.53	peak	
2		10400.00	38.24	14.66	52.90	68.20	-15.30	AVG	

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

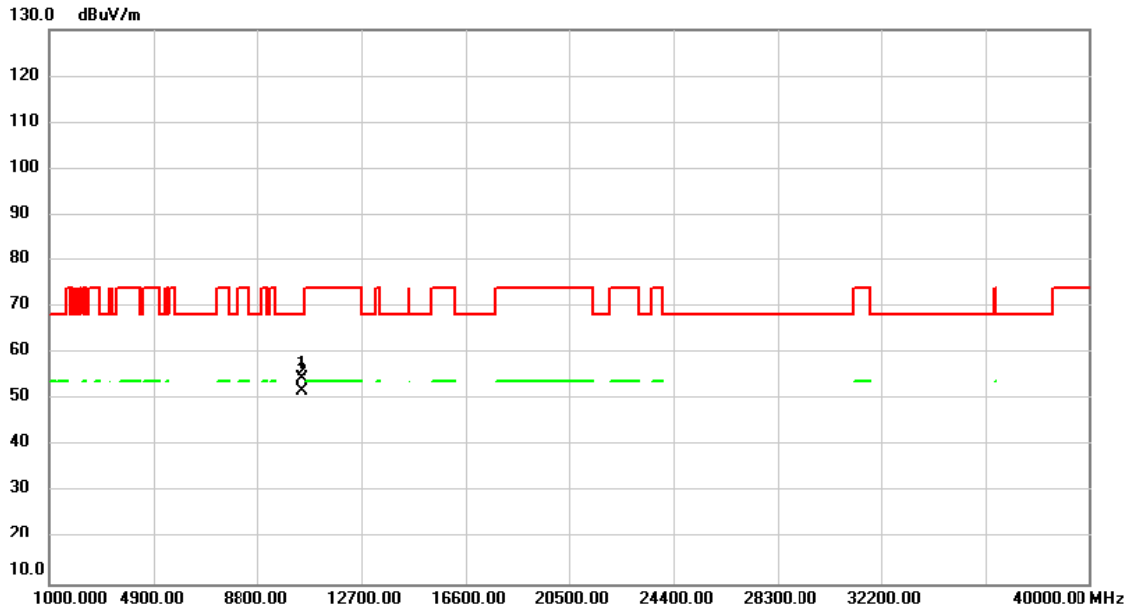
Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/9/10
Test Frequency	5200MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	42.98	14.66	57.64	68.20	-10.56	peak	
2		10400.00	37.64	14.66	52.30	68.20	-15.90	AVG	

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

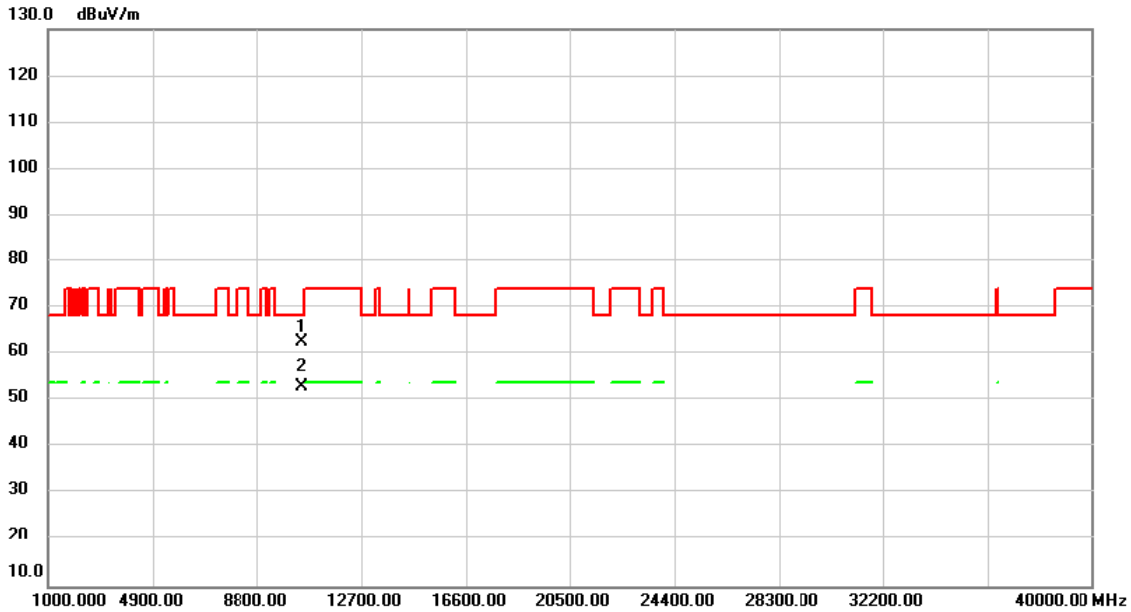
Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/9/10
Test Frequency	5240MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	40.07	14.55	54.62	68.20	-13.58	peak	
2		10480.00	37.44	14.55	51.99	68.20	-16.21	AVG	

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

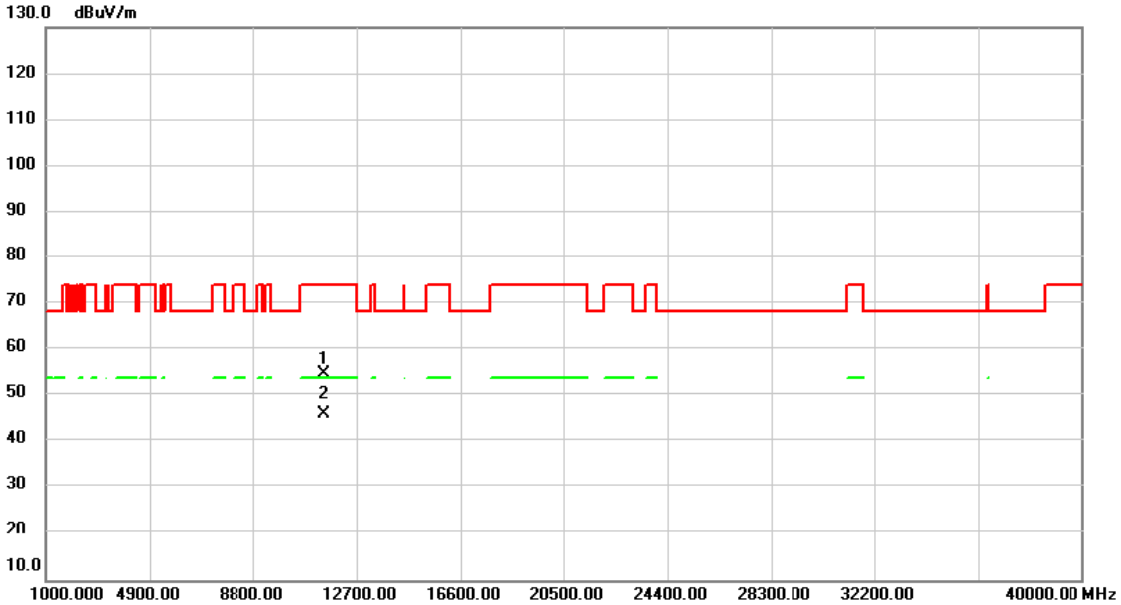
Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/9/10
Test Frequency	5240MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	47.96	14.55	62.51	68.20	-5.69	peak	
2		10480.00	38.48	14.55	53.03	68.20	-15.17	AVG	

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

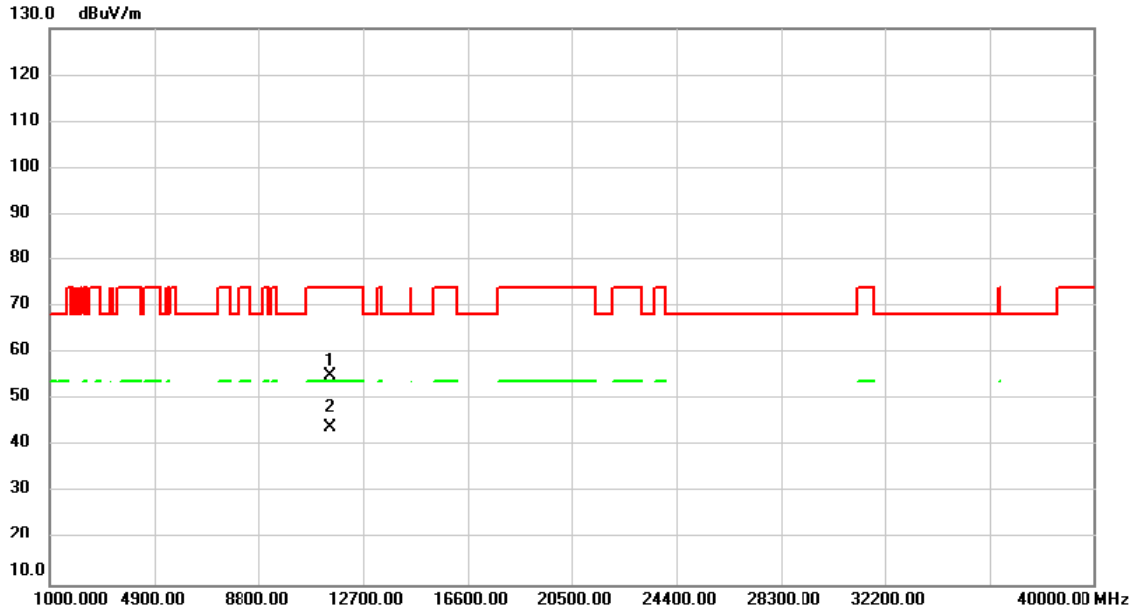
Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/9/10
Test Frequency	5745MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	39.46	15.40	54.86	74.00	-19.14	peak	
2	*	11490.00	30.65	15.40	46.05	54.00	-7.95	AVG	

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

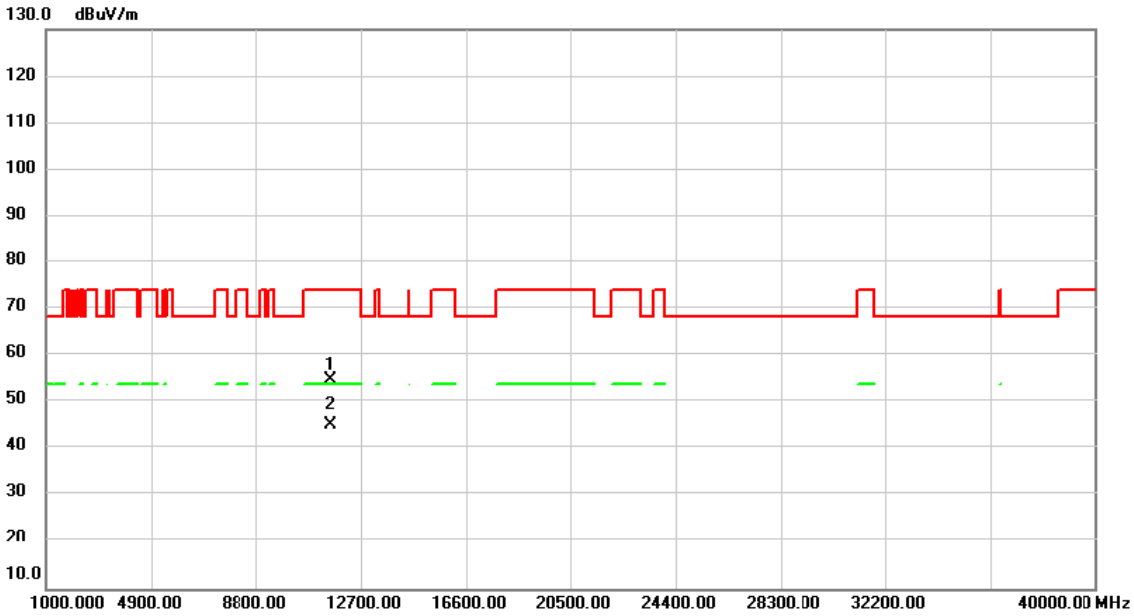
Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/9/10
Test Frequency	5745MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	39.90	15.40	55.30	74.00	-18.70	peak	
2	*	11490.00	28.66	15.40	44.06	54.00	-9.94	AVG	

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

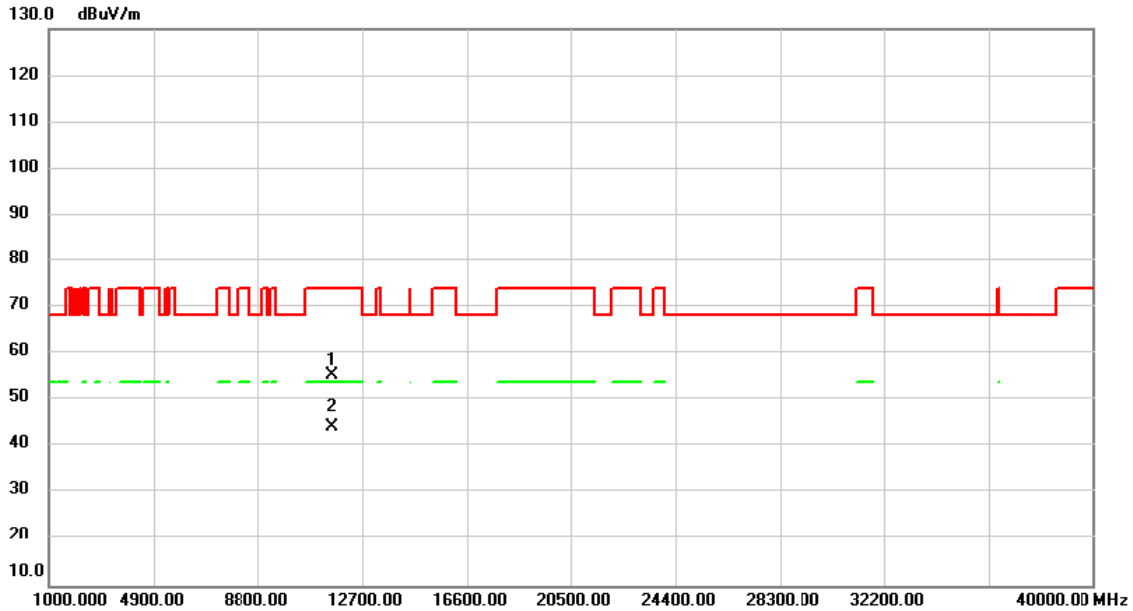
Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/9/10
Test Frequency	5785MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	39.56	15.43	54.99	74.00	-19.01	peak	
2	*	11570.00	29.81	15.43	45.24	54.00	-8.76	AVG	

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

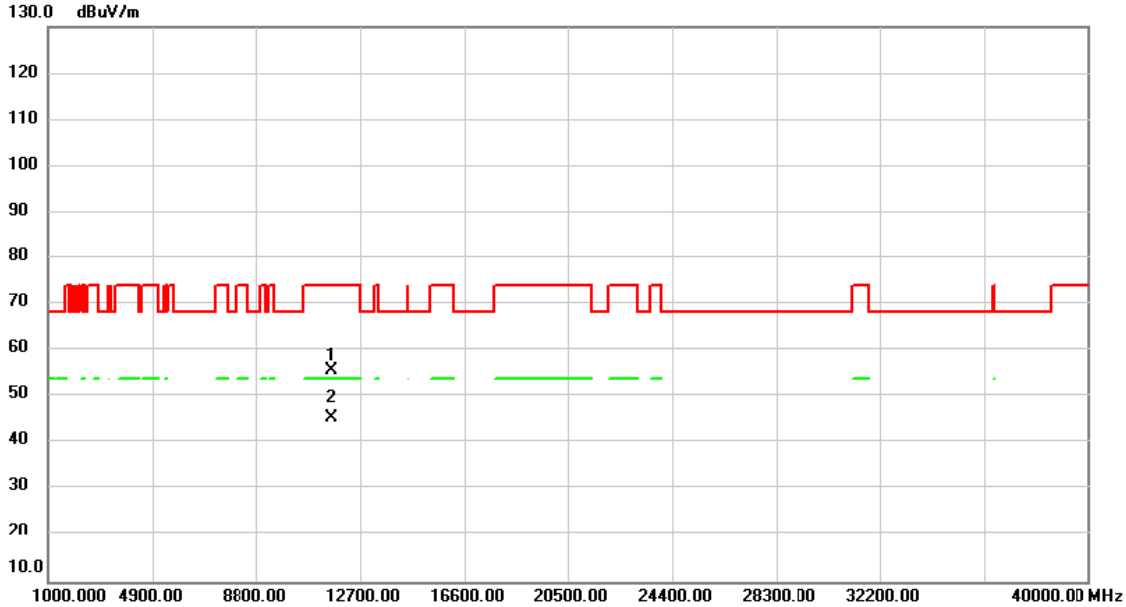
Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/9/10
Test Frequency	5785MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	39.90	15.43	55.33	74.00	-18.67	peak	
2	*	11570.00	28.82	15.43	44.25	54.00	-9.75	AVG	

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

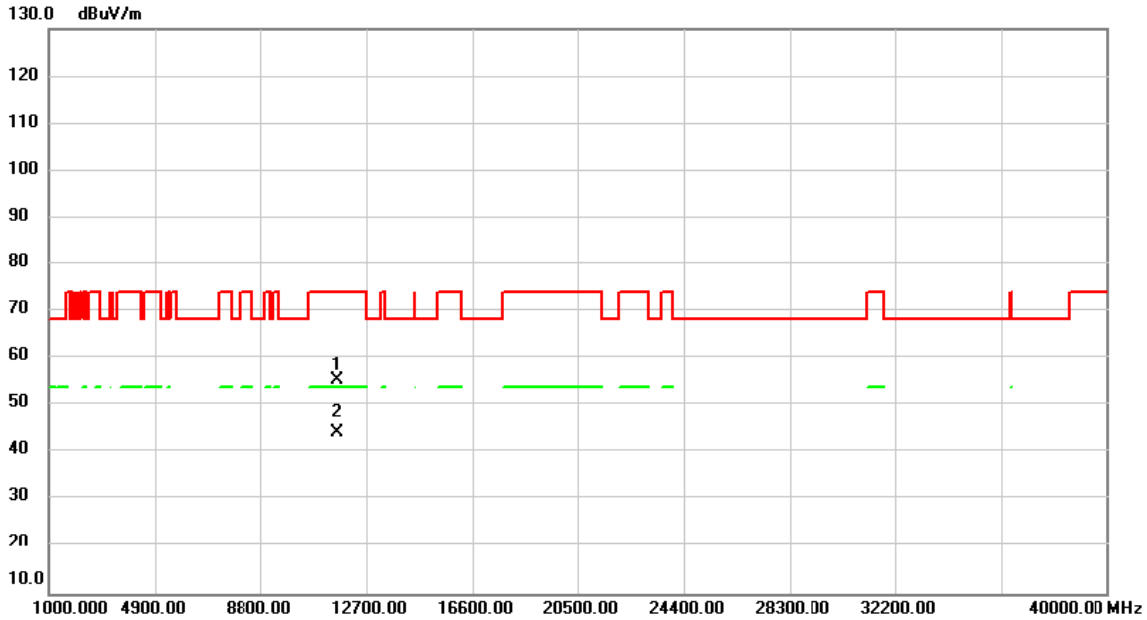
Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/9/10
Test Frequency	5825MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	40.28	15.46	55.74	74.00	-18.26	peak	
2	*	11650.00	30.22	15.46	45.68	54.00	-8.32	AVG	

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

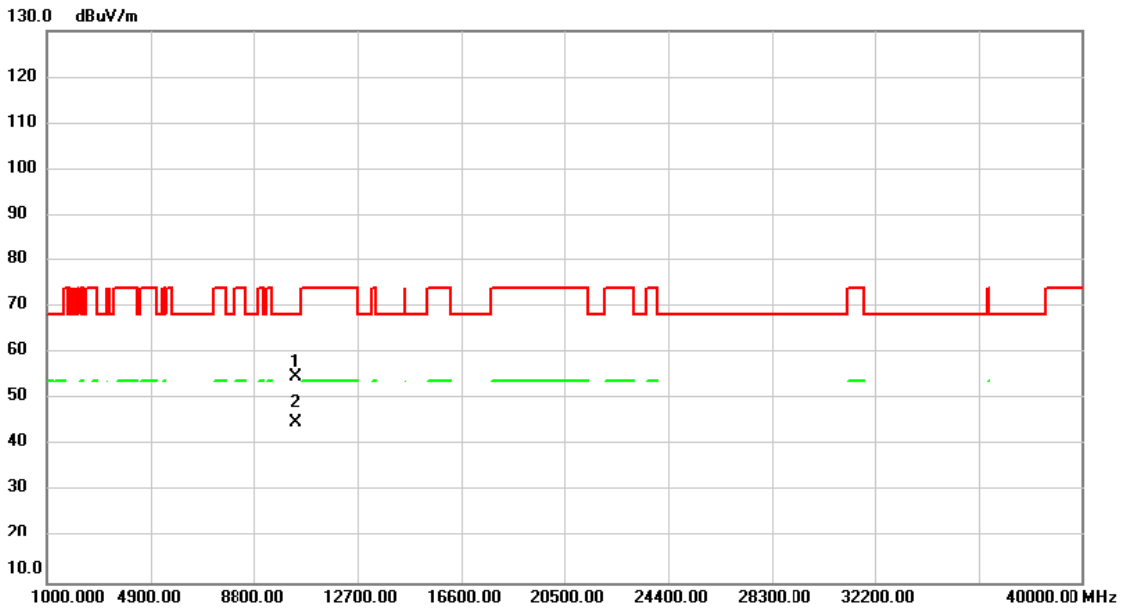
Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/9/10
Test Frequency	5825MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	39.90	15.46	55.36	74.00	-18.64	peak	
2	*	11650.00	28.81	15.46	44.27	54.00	-9.73	AVG	

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

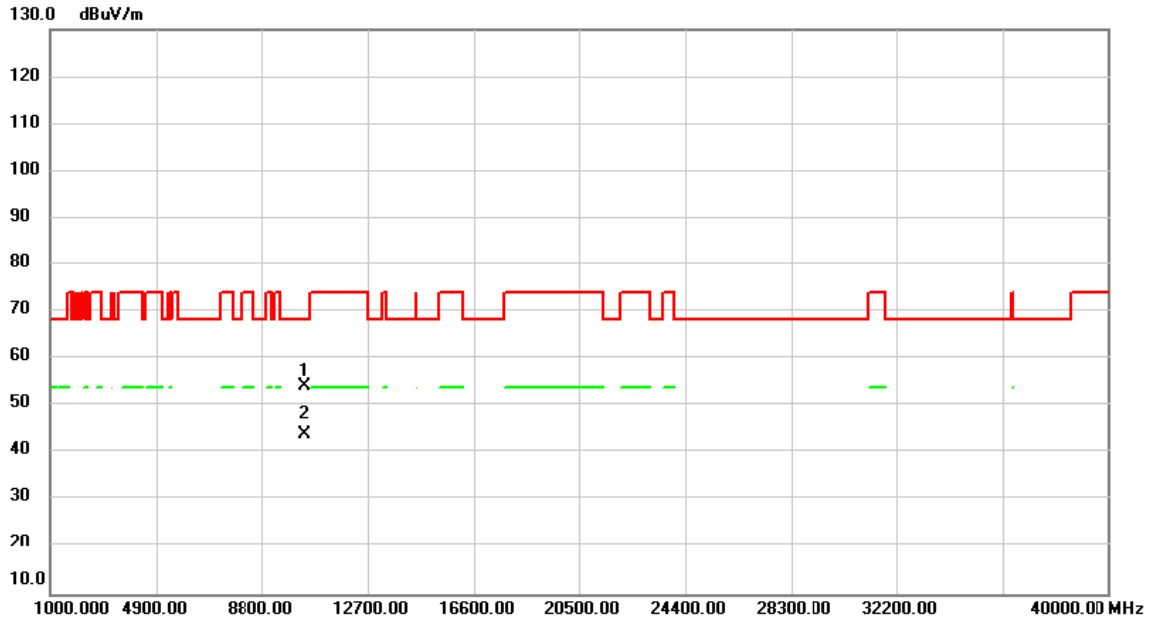
Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/9/10
Test Frequency	5190MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10380.00	40.21	14.69	54.90	68.20	-13.30	peak	
2		10380.00	30.34	14.69	45.03	68.20	-23.17	AVG	

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

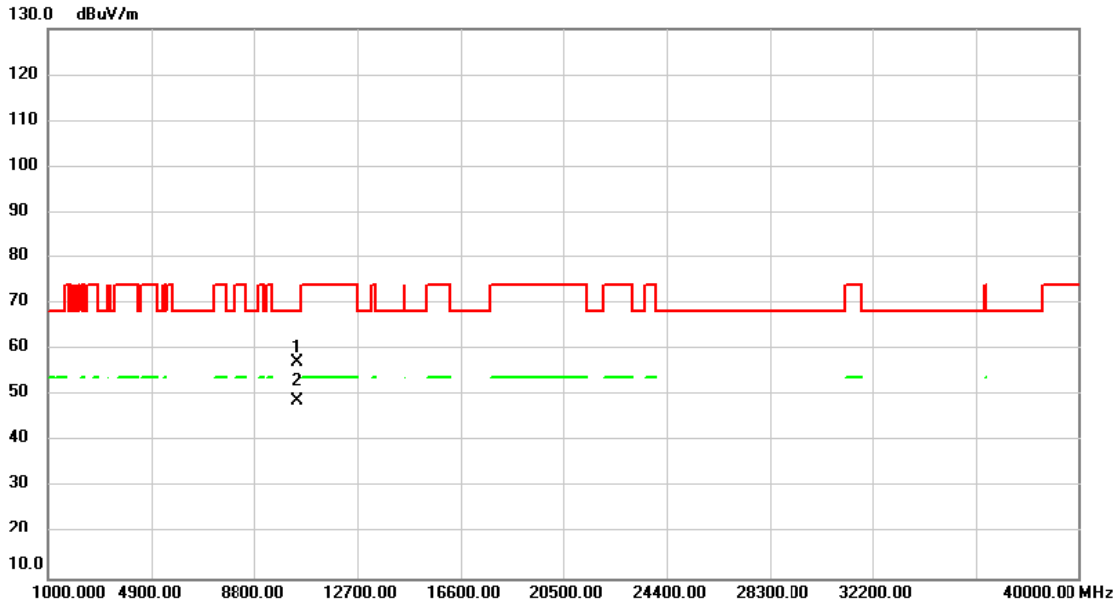
Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/9/10
Test Frequency	5190MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10380.00	39.58	14.69	54.27	68.20	-13.93	peak	
2		10380.00	29.33	14.69	44.02	68.20	-24.18	AVG	

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

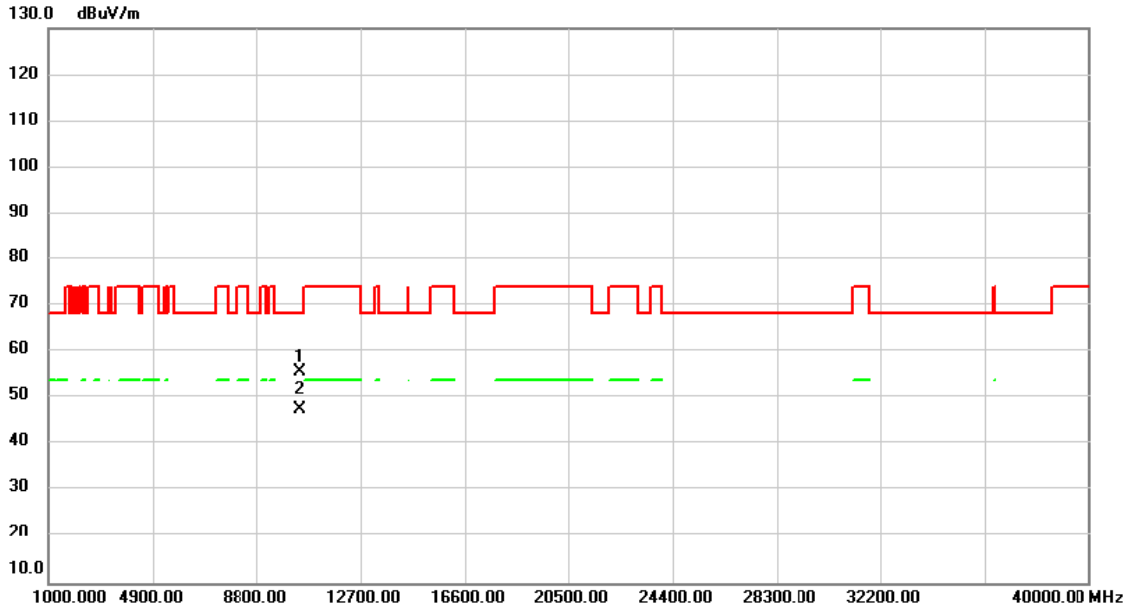
Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/9/10
Test Frequency	5230MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.00	42.54	14.58	57.12	68.20	-11.08	peak	
2		10460.00	34.36	14.58	48.94	68.20	-19.26	AVG	

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

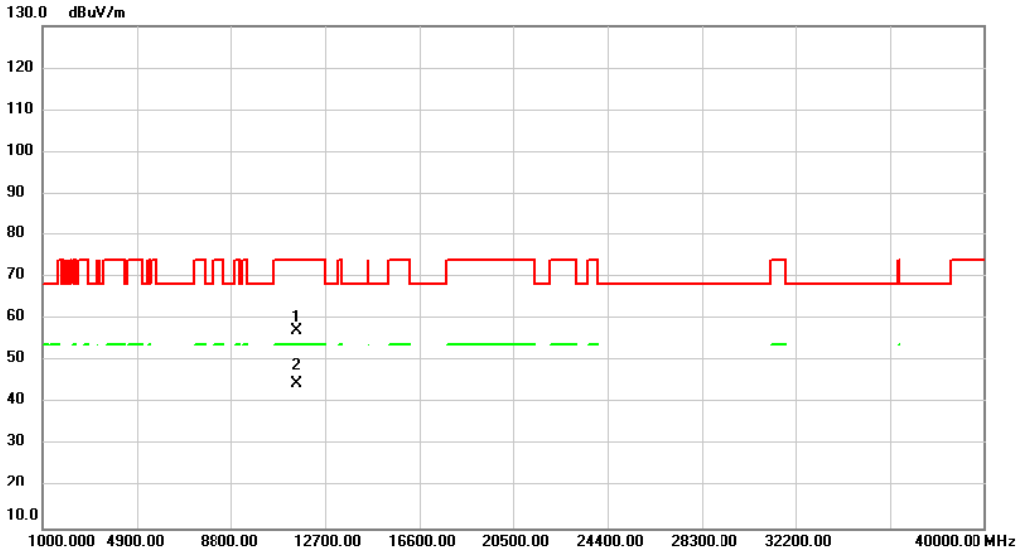
Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/9/10
Test Frequency	5230MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.00	41.15	14.58	55.73	68.20	-12.47	peak	
2		10460.00	33.20	14.58	47.78	68.20	-20.42	AVG	

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

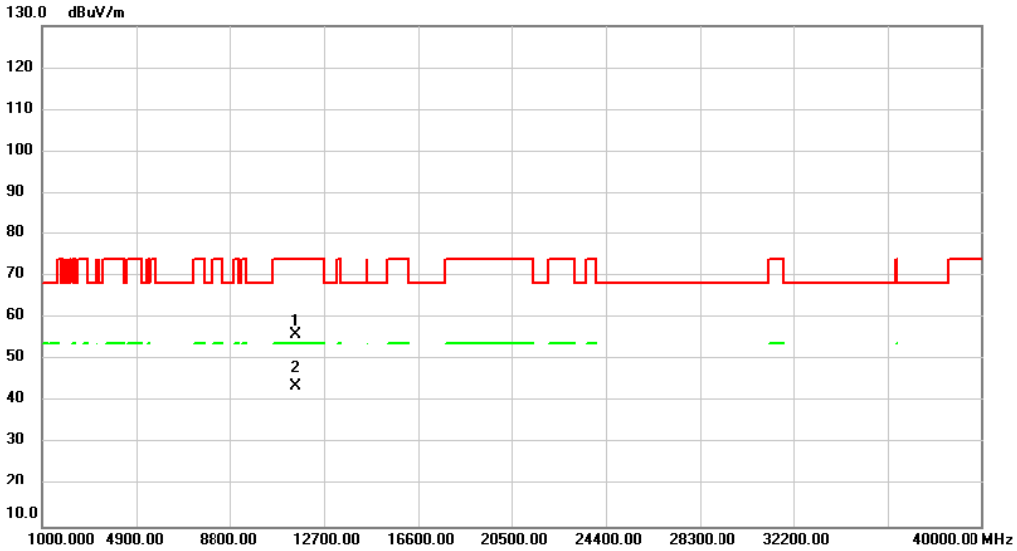
Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/9/10
Test Frequency	5755MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11510.00	41.94	15.41	57.35	74.00	-16.65	peak	
2	*	11510.00	29.33	15.41	44.74	54.00	-9.26	AVG	

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

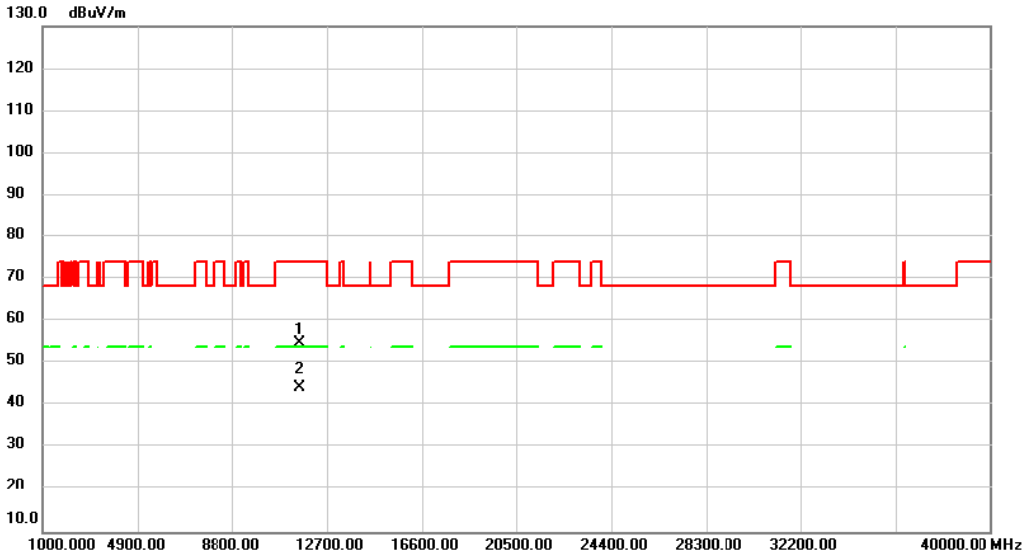
Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/9/10
Test Frequency	5755MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11510.00	40.61	15.41	56.02	74.00	-17.98	peak	
2	*	11510.00	28.33	15.41	43.74	54.00	-10.26	AVG	

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

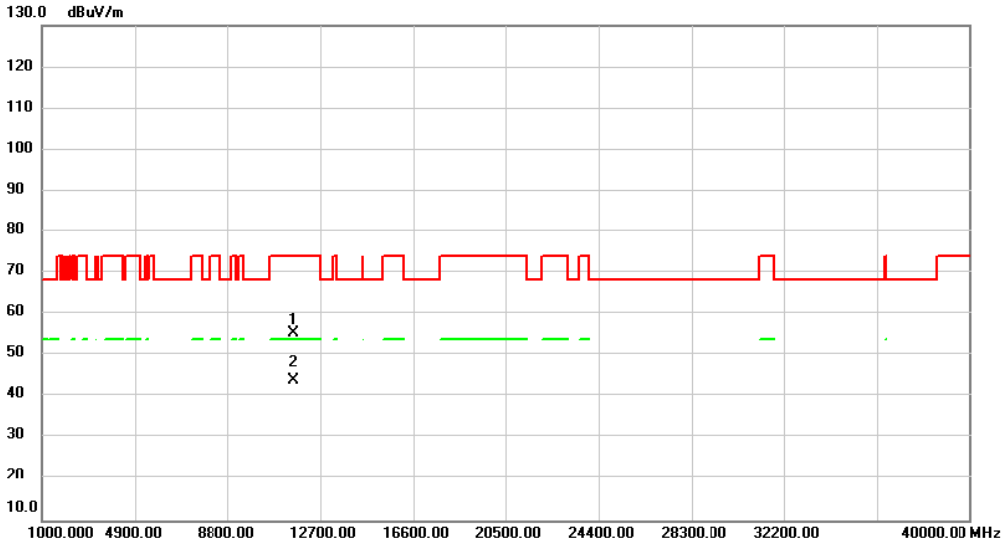
Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/9/10
Test Frequency	5795MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11590.00	39.56	15.44	55.00	74.00	-19.00	peak	
2	*	11590.00	29.03	15.44	44.47	54.00	-9.53	AVG	

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

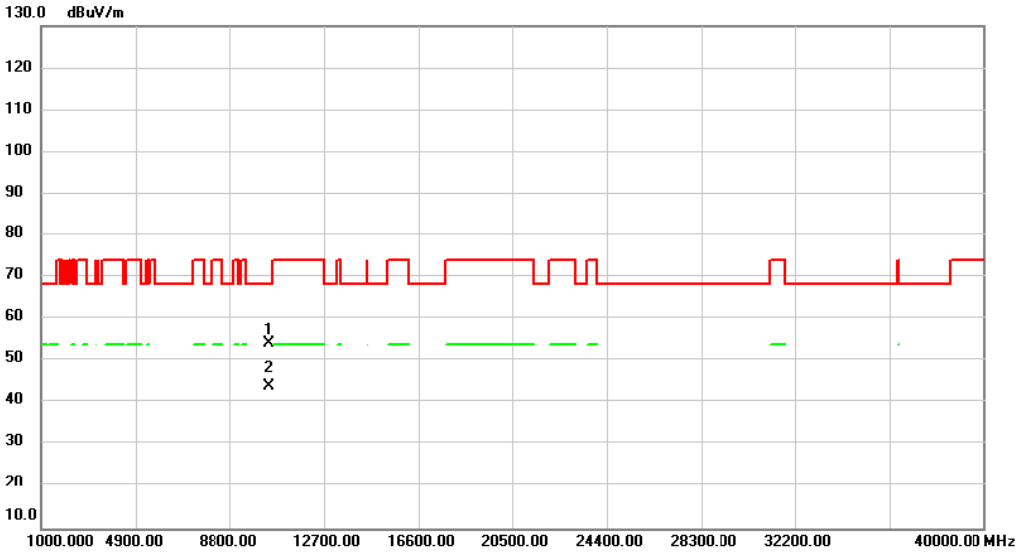
Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/9/10
Test Frequency	5795MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11590.00	40.02	15.44	55.46	74.00	-18.54	peak	
2	*	11590.00	28.61	15.44	44.05	54.00	-9.95	AVG	

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

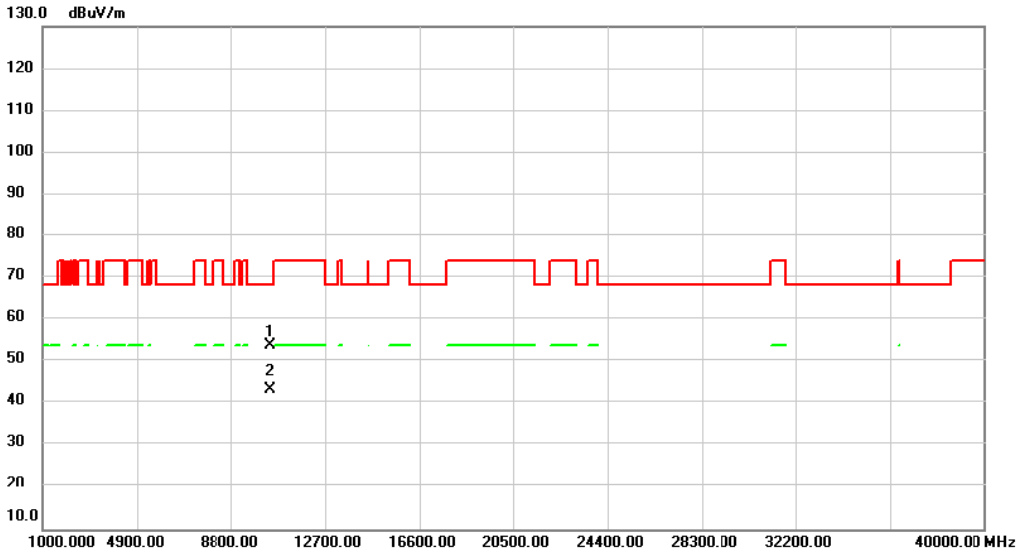
Test Mode	IEEE 802.11ax (HE80)	Test Date	2023/9/10
Test Frequency	5210MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10420.00	39.52	14.63	54.15	68.20	-14.05	peak	
2		10420.00	29.48	14.63	44.11	68.20	-24.09	AVG	

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

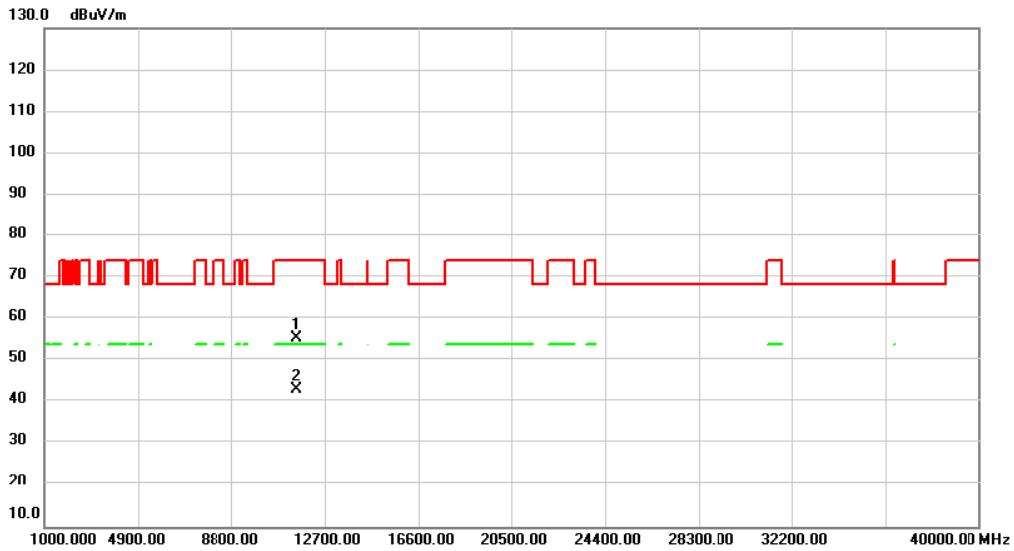
Test Mode	IEEE 802.11ax (HE80)	Test Date	2023/9/10
Test Frequency	5210MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10420.00	39.38	14.63	54.01	68.20	-14.19	peak	
2		10420.00	28.86	14.63	43.49	68.20	-24.71	AVG	

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

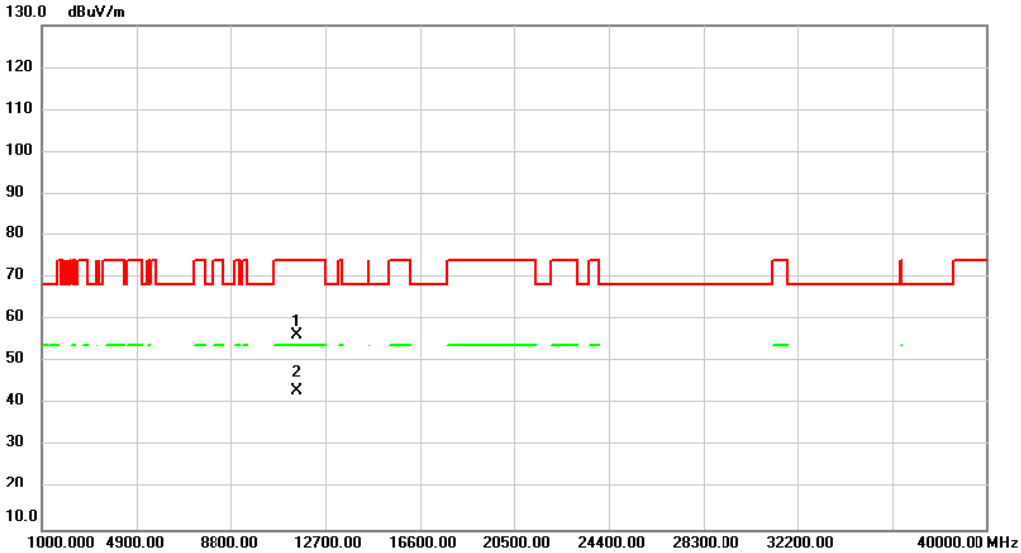
Test Mode	IEEE 802.11ax (HE80)	Test Date	2023/9/10
Test Frequency	5775MHz	Polarization	Vertical
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	11550.00	40.03	15.42	55.45	74.00	-18.55	peak	
2		11550.00	27.64	15.42	43.06	74.00	-30.94	peak	

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

Test Mode	IEEE 802.11ax (HE80)	Test Date	2023/9/10
Test Frequency	5775MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11550.00	40.95	15.42	56.37	74.00	-17.63	peak	
2	*	11550.00	27.61	15.42	43.03	54.00	-10.97	AVG	

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

APPENDIX D BANDWIDTH