FCC Radio Test Report

FCC ID: 2BDWL2417250

Report No.	:	BTL-FCCP-3-2407E004
Equipment	:	TELUS Outdoor Camera
Model Name	:	OCF
Brand Name	:	TELUS
Applicant	:	TELUS Communications Inc.
Address	:	7th Floor,510 West Georgia Street,Vancouver, BC,V6B0M3 Canada
Radio Function	:	RLAN 5 GHz (U-NII 1, U-NII 2A, U-NII 2C, 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	:	2024/8/12
Date of Test	:	2024/8/13 ~ 2024/9/4
Issued Date	:	2024/9/6

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

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Declaration

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

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

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

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

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

Limitation

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

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

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2407E004	R00	Original Report.	2024/9/6	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	------
15.205 15.209 15.407(b)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	Pass	------
15.407(a) 15.407(e)	Bandwidth	APPENDIX D	Pass	------
15.407(a)	Maximum Output Power	APPENDIX E	Pass	------
15.407(a)	Power Spectral Density	APPENDIX F	Pass	------
15.407(g)	Frequency Stability	------	PASS	**NOTE (5)**
15.203	Antenna Requirement	------	Pass	**NOTE (4)**
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 TP.1.1.1.
(3) During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. 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 device what use replaceable antennas with non-standard interfaces are considered sufficient to com ply with the provisions of 15.203.
(5) The item is declared by the manufacturer.

1.1 TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659.
The test location(s) used to collect the test data in this report are:
(FCC DN: TW0659)
No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
☒ CB21 ☒ C06

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 BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C06	CISPR	150 kHz ~ 30MHz	2.4498

B. Radiated emissions test:

Test Site	Measurement Frequency Range	U,(dB)
CB21	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
	1 GHz ~ 6 GHz	5.21
	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

C. Conducted test:

Test Item	U,(dB)
Occupied Bandwidth	0.53
Maximum Output Power	0.37
Power Spectral Density	0.66
Conducted Spurious emissions	0.53
Conducted Band edges	0.53
Frequency Stability	0.53

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 120 V	Ken Lu
Radiated emissions below 1 GHz	26°C, 59%	AC 120 V	Ken Lu
Radiated emissions above 1 GHz	26°C, 61%	AC 120 V	Ken Lu
Bandwidth	25°C, 69%	AC 120 V	Cai Hu
Maximum Output Power	25°C, 69%	AC 120 V	Cai Hu
Power Spectral Density	25°C, 69%	AC 120 V	Cai Hu

1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

UNII-1			
Test Software Version	IPOP_V4.0		
Frequency (MHz)	5180	5200	5240
IEEE 802.11a	65	66	66
IEEE 802.11n(HT20)	48	59	59
IEEE 802.11ac(VHT20)	49	49	48
IEEE 802.11ax(HE20)	53	53	53
Frequency (MHz)	5190	5230	
IEEE 802.11n(HT40)	40	58	
IEEE 802.11ac(VHT40)	47	51	
IEEE 802.11ax(HE40)	30	55	
Frequency (MHz)	5210		
IEEE 802.11ac(VHT80)	40		
IEEE 802.11ax(HE80)	40		

UNII-2A			
Test Software Version	IPOP_V4.0		
Frequency (MHz)	5260	5300	5320
IEEE 802.11a	66	70	58
IEEE 802.11n(HT20)	58	59	55
IEEE 802.11ac(VHT20)	49	49	49
IEEE 802.11ax(HE20)	53	53	53
Frequency (MHz)	5270	5310	
IEEE 802.11n(HT40)	66	38	
IEEE 802.11ac(VHT40)	57	56	
IEEE 802.11ax(HE40)	55	38	
Frequency (MHz)	5290		
IEEE 802.11ac(VHT80)	42		
IEEE 802.11ax(HE80)	40		

UNII-2C			
Test Software Version	IPOP_V4.0		
Frequency (MHz)	5500	5580	5700
IEEE 802.11a	45	74	45
IEEE 802.11n(HT20)	50	56	50
IEEE 802.11ac(VHT20)	47	49	50
IEEE 802.11ax(HE20)	43	45	46
Frequency (MHz)	5510	5550	5670
IEEE 802.11n(HT40)	43	66	56
IEEE 802.11ac(VHT40)	48	56	49
IEEE 802.11ax(HE40)	42	55	55
Frequency (MHz)	5530	5610	
IEEE 802.11ac(VHT80)	45	68	
IEEE 802.11ax(HE80)	45	55	

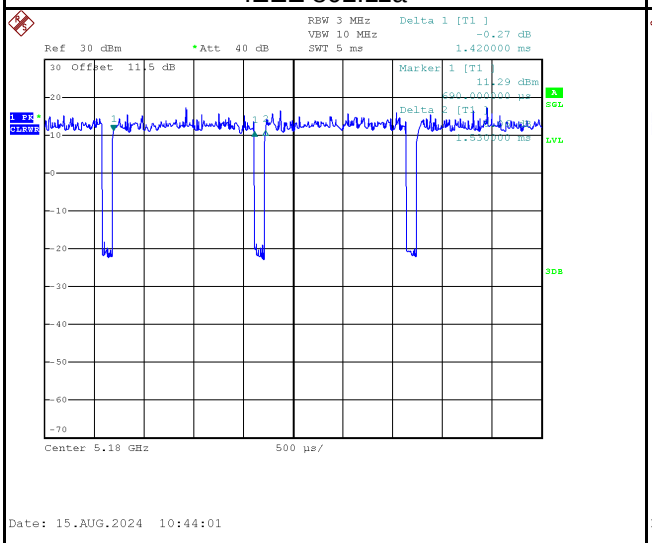
UNII-3			
Test Software Version	IPOP_V4.0		
Frequency (MHz)	5745	5785	5825
IEEE 802.11a	72	72	72
IEEE 802.11n(HT20)	55	57	57
IEEE 802.11ac(VHT20)	46	47	48
IEEE 802.11ax(HE20)	44	46	46
Frequency (MHz)	5755	5795	
IEEE 802.11n(HT40)	66	66	
IEEE 802.11ac(VHT40)	52	54	
IEEE 802.11ax(HE40)	55	55	
Frequency (MHz)	5775		
IEEE 802.11ac(VHT80)	58		
IEEE 802.11ax(HE80)	55		

1.5 DUTY CYCLE

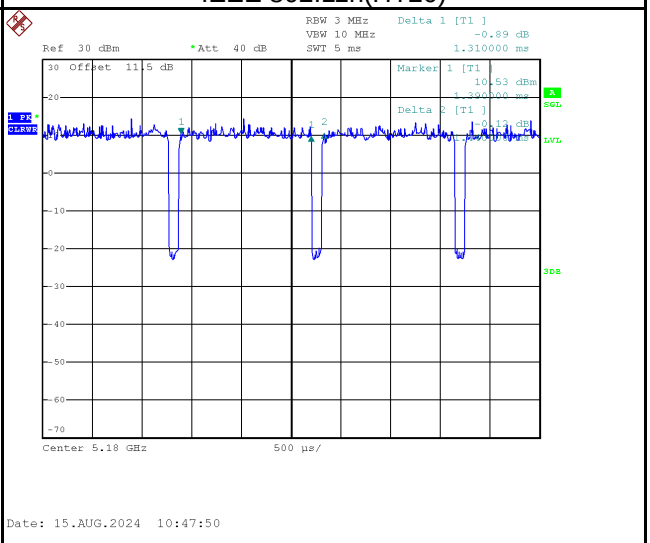
If duty cycle is ≥ 98 %, duty factor is not required.
If duty cycle is < 98 %, duty factor shall be considered.

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	1.420	1	1.420	1.530	92.81%	0.32
IEEE 802.11n (HT20)	1.310	1	1.310	1.440	90.97%	0.41
IEEE 802.11n (HT40)	1.228	1	1.228	1.318	93.17%	0.31
IEEE 802.11ac (VHT20)	0.680	1	0.680	0.799	85.11%	0.70
IEEE 802.11ac (VHT40)	0.072	1	0.072	0.172	41.86%	3.75
IEEE 802.11ac (VHT80)	0.056	1	0.056	0.156	35.90%	4.40
IEEE 802.11ax (HE20)	0.094	1	0.094	0.196	47.96%	3.19
IEEE 802.11ax (HE40)	0.085	1	0.085	0.186	45.70%	3.39
IEEE 802.11ax (HE80)	0.076	1	0.076	0.178	42.70%	3.72

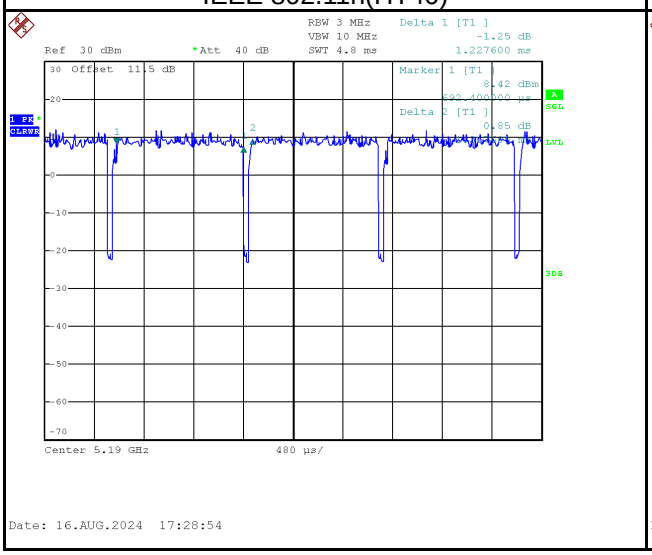
IEEE 802.11a



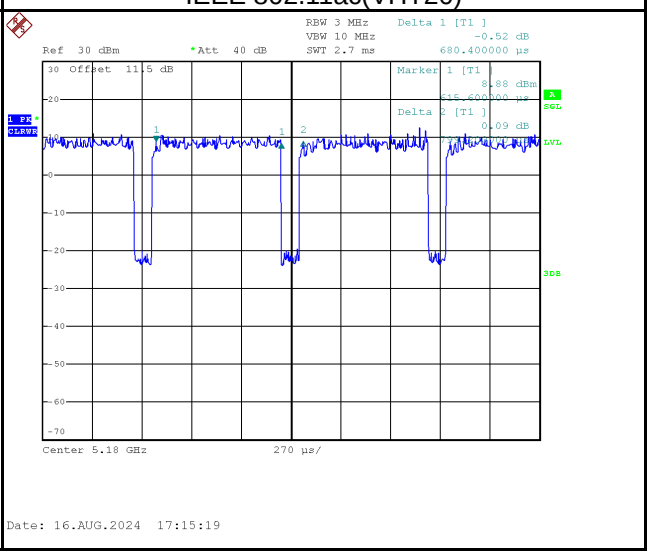
IEEE 802.11n(HT20)



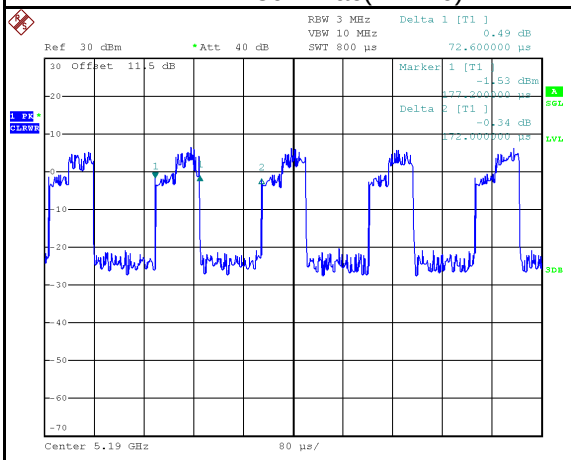
IEEE 802.11n(HT40)



IEEE 802.11ac(VHT20)

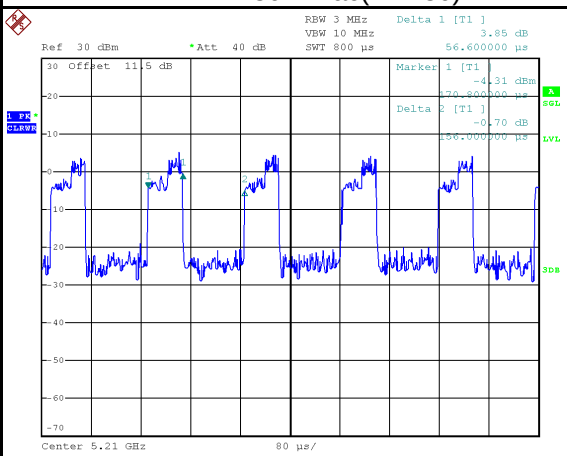


IEEE 802.11ac(VHT40)



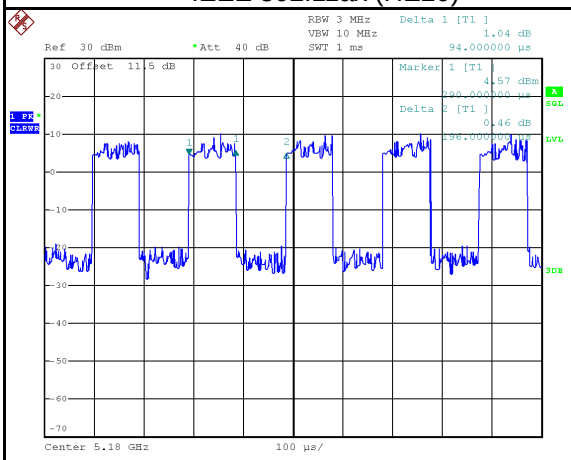
Date: 23.AUG.2024 18:10:24

IEEE 802.11ac(VHT80)



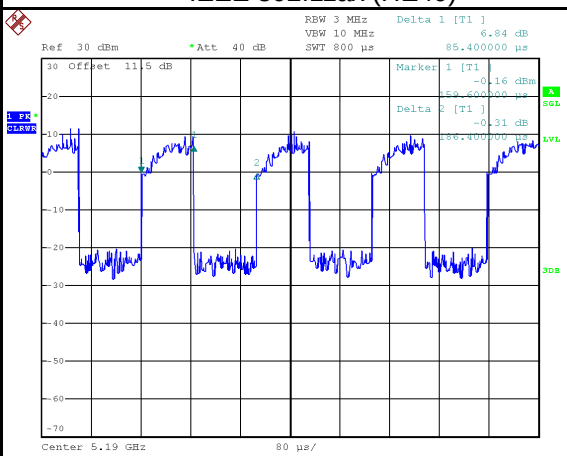
Date: 23.AUG.2024 18:13:09

IEEE 802.11ax (HE20)



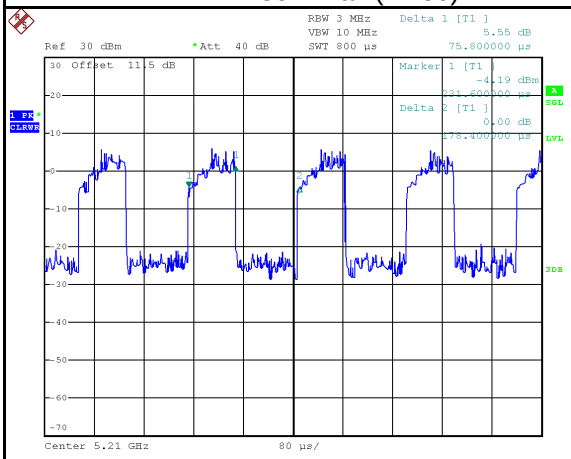
Date: 15.AUG.2024 11:16:41

IEEE 802.11ax (HE40)



Date: 23.AUG.2024 18:04:56

IEEE 802.11ax (HE80)



Date: 23.AUG.2024 18:15:44

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	TELUS Outdoor Camera
Brand Name	TELUS
Model Name	OCF
Model Difference	N/A
Hardware Version	DVT
Software Version	v0.03.511
Power Source	DC voltage supplied from AC adapter. Model: DSA-20PDB FUS
Power Rating	I/P: 100-240V 50/60Hz 0.6A O/P:+5.0V⎓ 3.0A +9.0V⎓ 2.22A +12.0V⎓ 1.66A
Operation Band	UNII-1: 5150 MHz to 5250 MHz UNII-2A: 5250 MHz to 5350 MHz UNII-2C: 5470 MHz to 5725 MHz UNII-3: 5725 MHz to 5850 MHz
Operation Frequency	UNII-1: 5180 MHz to 5250 MHz UNII-2A: 5250 MHz to 5320 MHz UNII-2C: 5500 MHz to 5700 MHz UNII-3: 5745 MHz to 5825 MHz
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6 Mbps 802.11n: up to 300Mbps 802.11ac: up to 866.7 Mbps 802.11ax: up to 2402 Mbps
Output Power Max. for UNII-1	IEEE 802.11a: 19.43 dBm (0.0877 W)
Output Power Max. for UNII-2A	IEEE 802.11a: 19.23 dBm (0.0838 W)
Output Power Max. for UNII-2C	IEEE 802.11ac(VHT80): 20.60 dBm (0.1148 W)
Output Power Max. for UNII-3	IEEE 802.11a: 19.48 dBm (0.0887 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-2A		UNII-2A		UNII-2A	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

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-2C		UNII-2C		UNII-2C	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590		
112	5560	126	5630		
116	5580	134	5670		
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				

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	P/N	Type	Connector	Gain (dBi)
Main	FIT Hon Teng Limited	ANTP2M1-CZZ27-EH	PIFA	N/A	3.90
AUX	FIT Hon Teng Limited	ANTP2M1-CZZ28-EH	PIFA	N/A	3.94

Note:

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

b) For Output Power

N_{ANT} = 2 < 5; so Directional gain=3.94

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

c) For Power Spectral Density

Directional gain= G_{ANT}+Array Gain=G_{ANT}+10log(N_{ANT}/ N_{SS})dBi = 3.94+10log(2/1)dBi=6.95 > 6dBi.

To UNII-1, UNII-2A and UNII-2C power spectral density limit is 11-(6.95-6) = 10.05,

To UNII-3 power spectral density limit is 30-(6.95-6) = 29.05.

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

(5) Operating Mode and Antenna Configuration

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

2.2 TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Transmitter Radiated Emissions (below 1GHz)	TX Mode_IEEE 802.11ac (VHT80)	122	-
Transmitter Radiated Emissions (above 1GHz)	TX Mode_IEEE 802.11a	36/48, 52/64 100/140, 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, 54/62, 102/134, 151/159	
	TX Mode_IEEE 802.11ac (VHT80) TX Mode_IEEE 802.11ax (HE80)	42, 58, 106, 122, 155	
	TX Mode_IEEE 802.11a	36/40/48, 52/60/64, 100/116/140, 149/157/165	Harmonic
	TX Mode_IEEE 802.11n (HT20) TX Mode_IEEE 802.11ax (HE20)	36/40/48, 52/60/64, 100/116/140/144, 149/157/165	
	TX Mode_IEEE 802.11n (HT40) TX Mode_IEEE 802.11ax (HE40)	38/46, 54/62, 102/110/134/142, 151/159	
	TX Mode_IEEE 802.11ac (VHT80) TX Mode_IEEE 802.11ax (HE80)	42, 58, 106/122/138, 155	
Bandwidth	TX Mode_IEEE 802.11a	36/40/48, 52/60/64, 100/116/140, 149/157/165	-
	TX Mode_IEEE 802.11n (HT20) TX Mode_IEEE 802.11ax (HE20)	36/40/48, 52/60/64, 100/116/140, 149/157/165	
	TX Mode_IEEE 802.11n (HT40) TX Mode_IEEE 802.11ax (HE40)	38/46, 54/62, 102/110/134 151/159	
	TX Mode_IEEE 802.11ac (VHT80) TX Mode_IEEE 802.11ax (HE80)	42, 58, 106/122/138, 155	
Power Spectral Density	TX Mode_IEEE 802.11a	36/40/48, 52/60/64, 100/116/140, 149/157/165	-
	TX Mode_IEEE 802.11n (HT20) TX Mode_IEEE 802.11ax (HE20)	36/40/48, 52/60/64, 100/116/140/144, 149/157/165	
	TX Mode_IEEE 802.11n (HT40) TX Mode_IEEE 802.11ax (HE40)	38/46, 54/62, 102/110/134/142 151/159	
	TX Mode_IEEE 802.11ac (VHT80) TX Mode_IEEE 802.11ax (HE80)	42, 58 106/122/138, 155	
Output Power	TX Mode_IEEE 802.11a	36/40/48, 52/60/64, 100/116/140, 149/157/165	
	TX Mode_IEEE 802.11n (HT20) TX Mode_IEEE 802.11ac (VHT20) TX Mode_IEEE 802.11ax (HE20)	36/40/48, 52/60/64, 100/116/140/144, 149/157/165	
	TX Mode_IEEE 802.11n (HT40) TX Mode_IEEE 802.11ac (VHT40) TX Mode_IEEE 802.11ax (HE40)	38/46, 54/62, 102/110/134/142 151/159	
	TX Mode_IEEE 802.11ac (VHT80) TX Mode_IEEE 802.11ax (HE80)	42, 58 106/122/138, 155	

NOTE:

(1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Horizontal) is recorded.

(2) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report

(3) For radiated emission below 1 GHz test, the IEEE 802.11ac(VHT80) Mode Channel 122 is found to be the worst case and recorded.

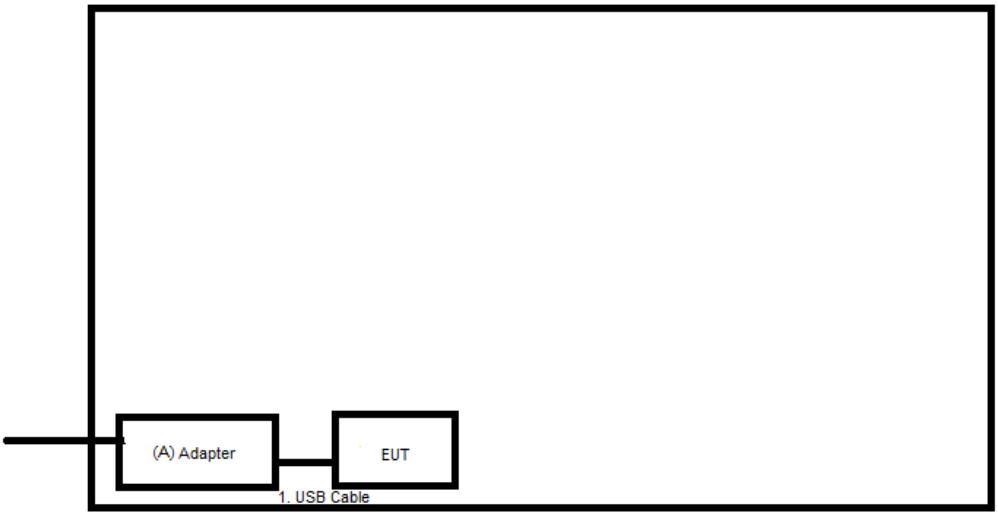
(4) For radiated emission Harmonic 18-40GHz test, only tested the worst case and recorded.

(5) 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 802.11ax(HE20) mode, IEEE 802.11ax(HE40) mode and IEEE 802.11ax(HE80) mode, only the worst cases are documented for other test items.

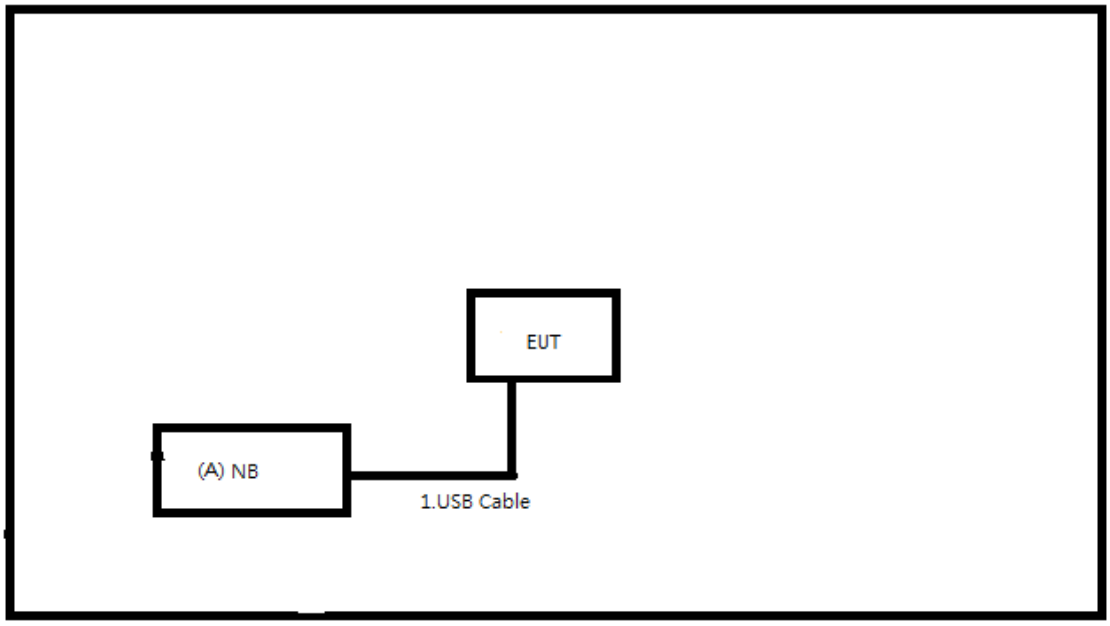
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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

AC power line conducted emissions

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Adapter	N/A	DSA-20PDB-FUS	N/A	Supplied by test requester.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	USB Cable	N	N	3m	Supplied by test requester.

Radiated Emissions

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Notebook	Lenovo	ThinkBook 14 G4 IAP	MP28KHAH	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	USB Cable	N	N	3m	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 (dBμV)		Correct Factor (dB)		Measurement Value (dBμV)
38.22	+	3.45	=	41.67

Measurement Value (dBμV)		Limit Value (dBμV)		Margin Level (dB)
41.67	-	60	=	-18.33

The following table is the setting of the receiver.

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

3.2 TEST PROCEDURE

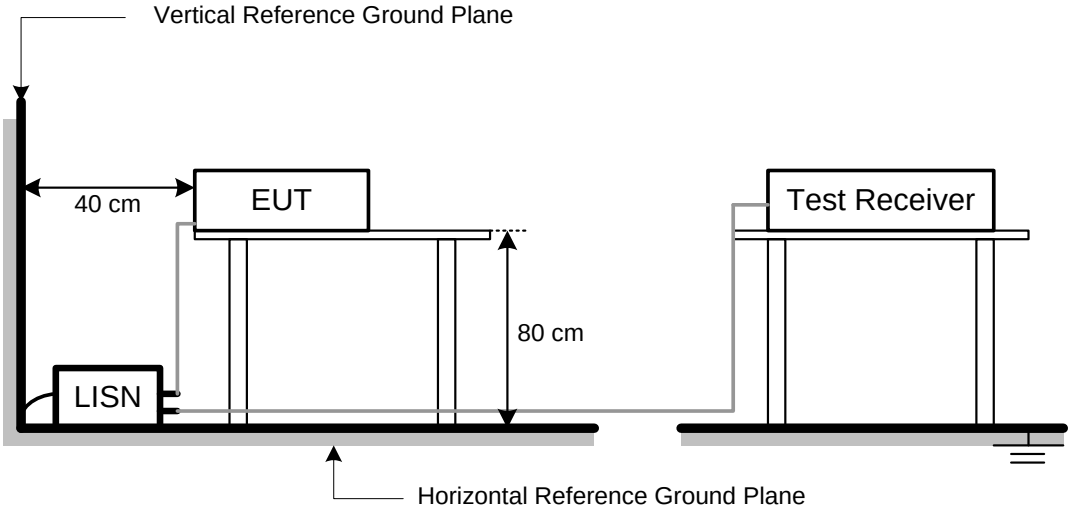
a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
All other support equipment were powered from an additional LISN(s).
The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.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

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

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.

4 RADIATED EMISSIONS TEST

4.1 LIMIT

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

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

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

LIMITS OF 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 (dBμV)		Correct Factor (dB/m)		Measurement Value (dBμV/m)
36.23	+	-11.97	=	24.26

Measurement Value (dBμV/m)		Limit Value (dBμV/m)		Margin Level (dB)
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

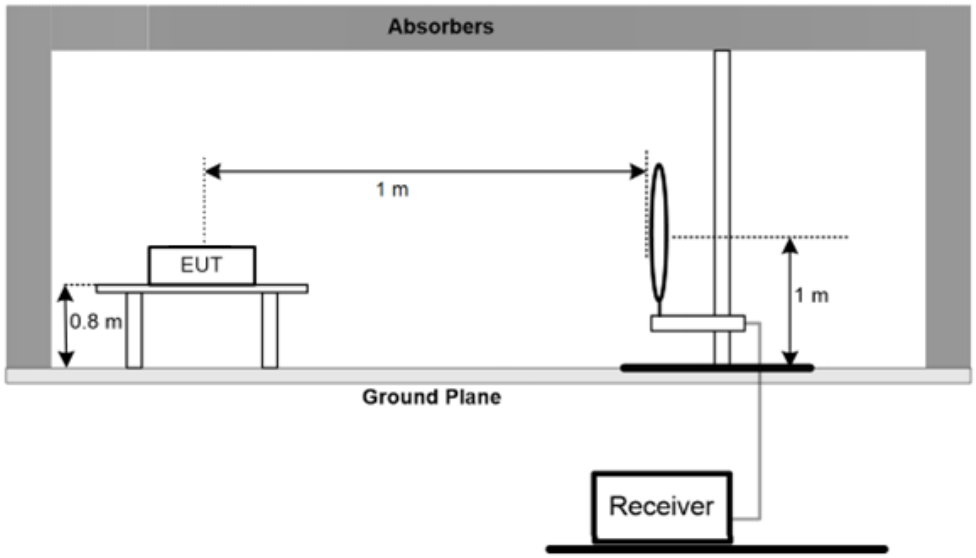
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance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

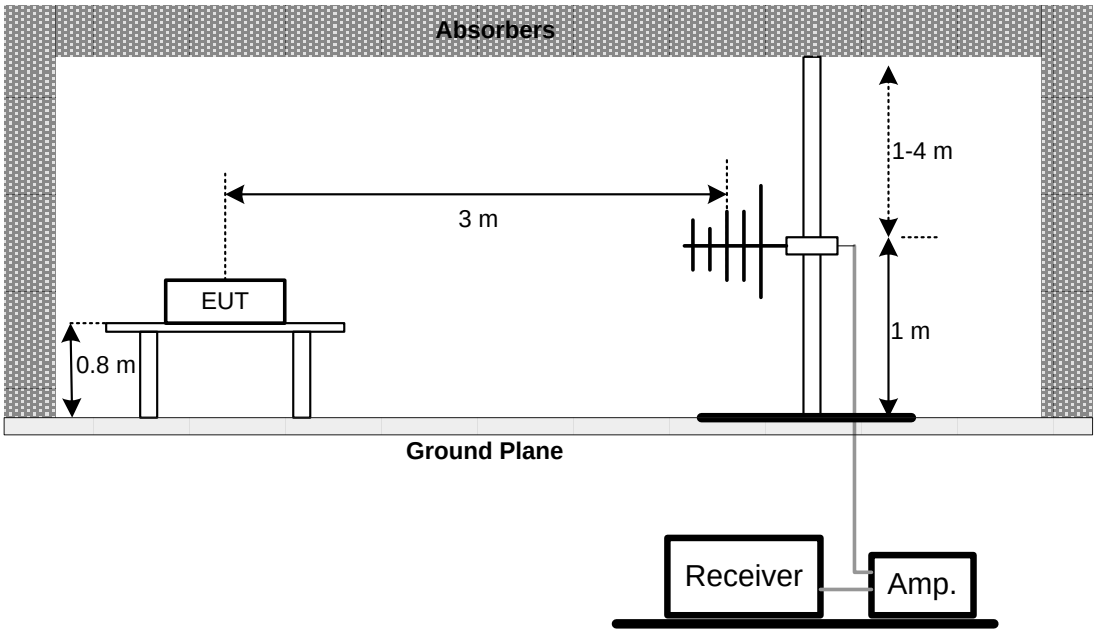
No deviation.

4.4 TEST SETUP

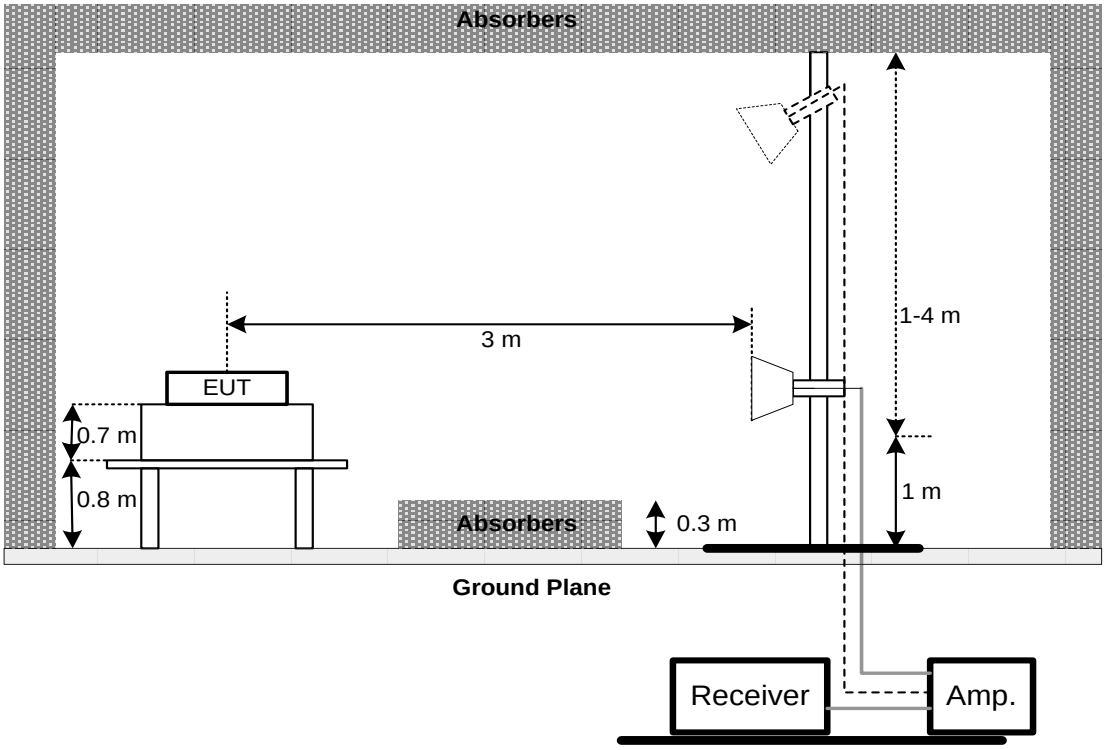
9 kHz to 30 MHz



30 MHz to 1 GHz



Above 1 GHz



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT – BELOW 30 MHZ

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

4.7 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX B.

4.8 TEST RESULT – ABOVE 1 GHZ

Please refer to the APPENDIX C.

NOTE:

(1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5 BANDWIDTH TEST

5.1 LIMIT

Section	Test Item	Frequency Range (MHz)
15.407(a)	26 dB Bandwidth	5150-5250
		5250-5350
		5470-5725
	Minimum 500 kHz 6 dB Bandwidth	5725-5850

5.2 TEST PROCEDURE

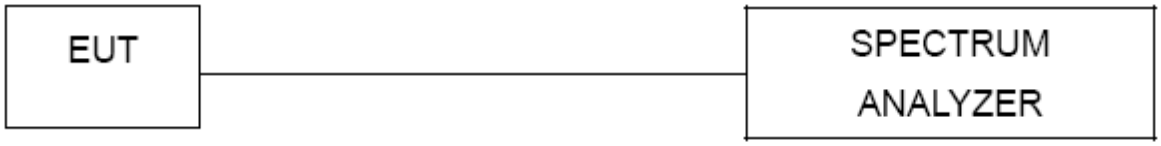
a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
b. Spectrum Setting:

Spectrum Parameter	Setting
Span Frequency	> 26 dB Bandwidth
RBW	Approximately1% of the emission bandwidth
VBW	> RBW

5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT

Please refer to the APPENDIX D.

6 MAXIMUM OUTPUT POWER TEST

6.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Maximum Output Power	AP device: 1 Watt (30 dBm) Client device: 250 mW (23.98 dBm)	5150-5250
		250 mW (23.98 dBm)	5250-5350
		250 mW (23.98 dBm)	5470-5725
		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

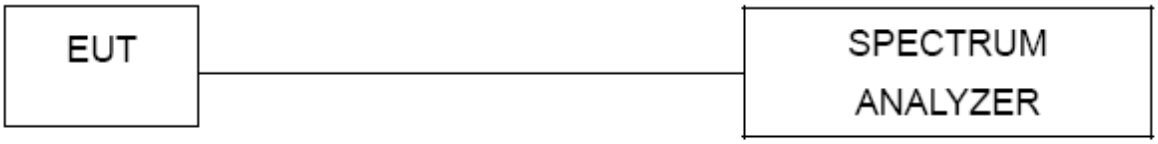
a. The EUT was directly connected to the Peak Power Analyzer and antenna output port as show in the block diagram below.

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 DEVIATION FROM TEST STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULT

Please refer to the APPENDIX E.

7 POWER SPECTRAL DENSITY

7.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Maximum Output Power	AP device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250
		11 dBm/MHz	5250-5350
		11 dBm/MHz	5470-5725
		30 dBm/500 kHz	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).			

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 DEVIATION FROM TEST STANDARD

No deviation.

7.4 TEST SETUP

7.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULT

Please refer to the APPENDIX F.

8 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	2024/6/26	2025/6/25
2	Test Cable	EMCI	EMCRG58-BM-BM-9000	210501	2023/12/11	2024/12/10
3	EMC Receiver	Keysight	N9038A	MY54130009	2024/6/27	2025/6/26
4	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions_Below 1GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2024/6/14	2025/6/13
2	EXA Spectrum Analyzer	keysight	N9020B	MY57120120	2024/2/23	2025/2/22
3	Pre-Amplifier	EMCI	EMC330N	980850	2023/9/6	2024/9/5
4	Test Cable	EMCI	EMC104-SM-1000	180809	2024/3/8	2025/3/8
5	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2024/3/8	2025/3/8
6	Test Cable	EMCI	EMC104-SM-SM-7000	220324	2024/3/8	2025/3/8
7	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions_Above 1 GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Pre-Amplifier	EMCI	EMC118A45SE	980819	2024/3/6	2025/3/5
2	Test Cable	EMCI	EMC104-SM-1000	180809	2024/3/8	2025/3/8
3	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2024/3/8	2025/3/8
4	Test Cable	EMCI	EMC104-SM-SM-7000	220324	2024/3/8	2025/3/8
5	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2024/5/17	2025/5/17
6	Pre-Amplifier	EMCI	EMC184045SE	980907	2023/9/21	2024/9/20
7	Test Cable	EMCI	EMC101G-KM-KM-3000	220329	2024/3/13	2025/3/13
8	Test Cable	EMCI	EMC102-KM-KM-1000	220327	2024/3/13	2025/3/13
9	EXA Spectrum Analyzer	keysight	N9020B	MY57120120	2024/2/23	2025/2/22
10	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Bandwidth						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 30	100854	2024/6/27	2025/6/26
2	10dbAttenuator	INMET	AHC-10dB	1	N/A	N/A
3	BTL-Conducred Test	N/A	1247788684	N/A	N/A	N/A

Maximum Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 30	100854	2024/6/27	2025/6/26
2	10dbAttenuator	INMET	AHC-10dB	1	N/A	N/A
3	BTL-Conducred Test	N/A	1247788684	N/A	N/A	N/A

Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 30	100854	2024/6/27	2025/6/26
2	10dbAttenuator	INMET	AHC-10dB	1	N/A	N/A
3	BTL-Conducred Test	N/A	1247788684	N/A	N/A	N/A

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

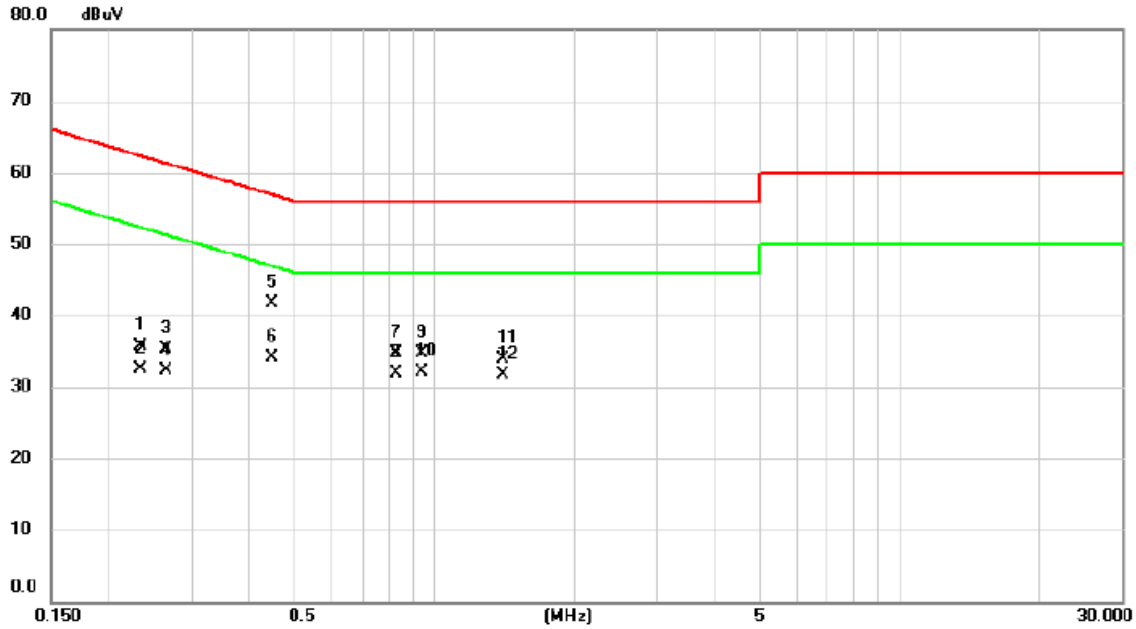
Please refer to document Appendix No.: TP-2407E004-1 (APPENDIX-TEST PHOTOS).

10 EUT PHOTOS

Please refer to document Appendix No.: EP-2407E004-1 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

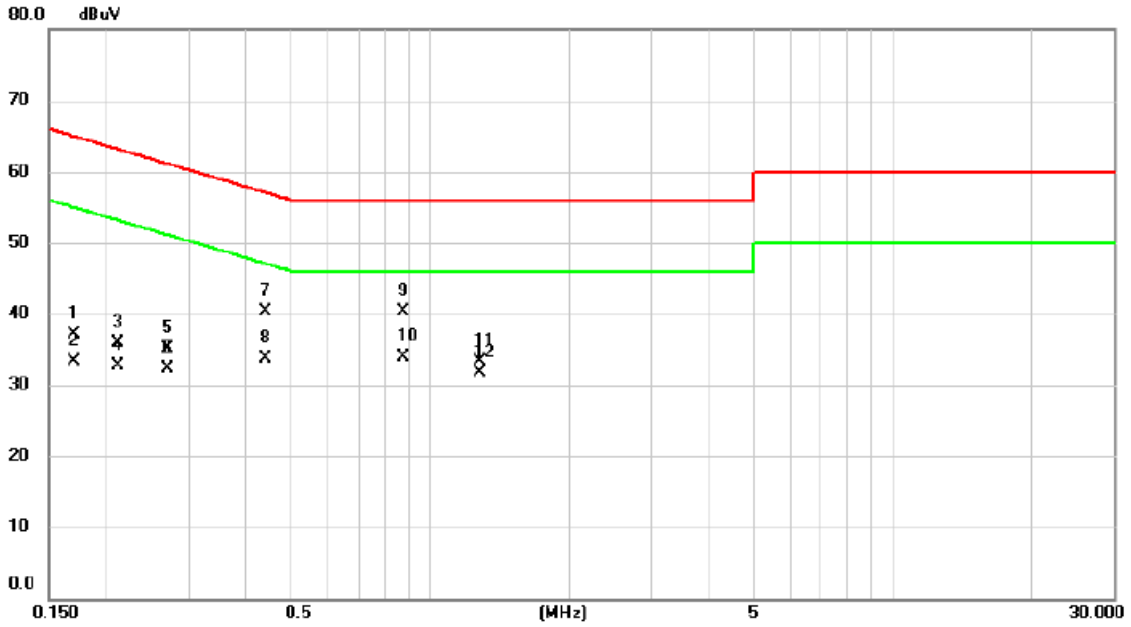
Test Mode	Normal	Tested Date	2024/8/14
Test Frequency	-	Phase	Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2336	26.04	9.64	35.68	62.32	-26.64	QP	
2		0.2336	22.93	9.64	32.57	52.32	-19.75	AVG	
3		0.2655	25.66	9.64	35.30	61.26	-25.96	QP	
4		0.2655	22.71	9.64	32.35	51.26	-18.91	AVG	
5		0.4465	31.98	9.66	41.64	56.94	-15.30	QP	
6	*	0.4465	24.48	9.66	34.14	46.94	-12.80	AVG	
7		0.8285	24.93	9.69	34.62	56.00	-21.38	QP	
8		0.8285	22.30	9.69	31.99	46.00	-14.01	AVG	
9		0.9410	25.10	9.70	34.80	56.00	-21.20	QP	
10		0.9410	22.39	9.70	32.09	46.00	-13.91	AVG	
11		1.4045	24.11	9.73	33.84	56.00	-22.16	QP	
12		1.4045	22.06	9.73	31.79	46.00	-14.21	AVG	

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

Test Mode	Normal	Tested Date	2024/8/14
Test Frequency	-	Phase	Neutral

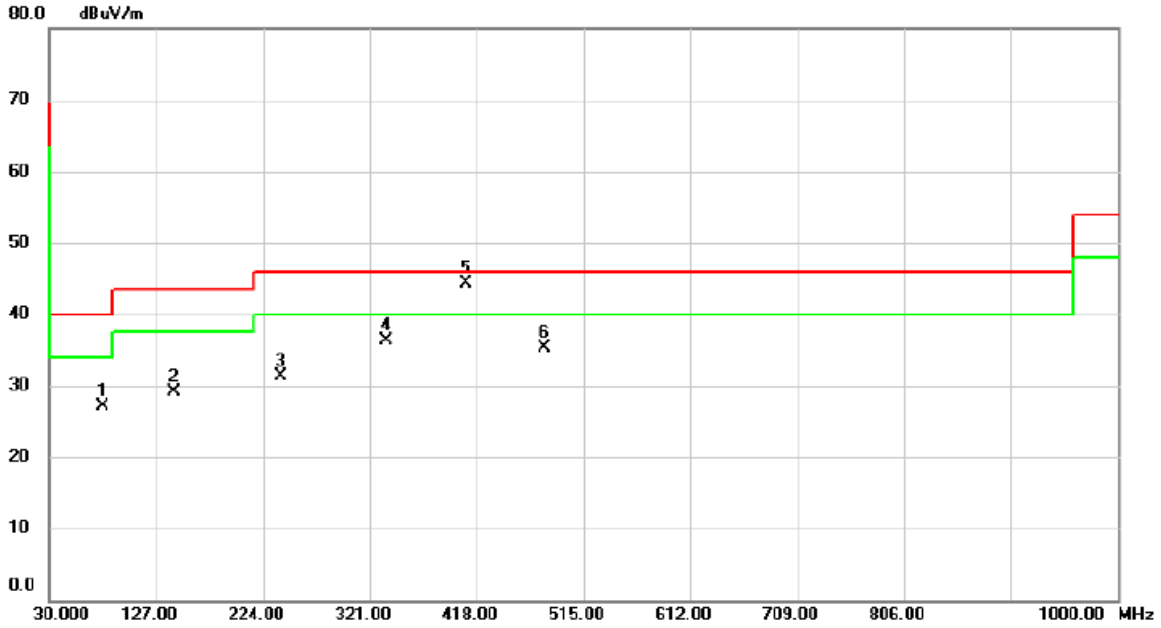


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1700	27.55	9.63	37.18	64.96	-27.78	QP	
2		0.1700	23.70	9.63	33.33	54.96	-21.63	AVG	
3		0.2120	26.28	9.63	35.91	63.13	-27.22	QP	
4		0.2120	23.12	9.63	32.75	53.13	-20.38	AVG	
5		0.2700	25.51	9.63	35.14	61.12	-25.98	QP	
6		0.2700	22.74	9.63	32.37	51.12	-18.75	AVG	
7		0.4398	30.58	9.64	40.22	57.07	-16.85	QP	
8		0.4398	24.11	9.64	33.75	47.07	-13.32	AVG	
9		0.8735	30.58	9.68	40.26	56.00	-15.74	QP	
10	*	0.8735	24.17	9.68	33.85	46.00	-12.15	AVG	
11		1.2785	23.57	9.71	33.28	56.00	-22.72	QP	
12		1.2785	22.09	9.71	31.80	46.00	-14.20	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

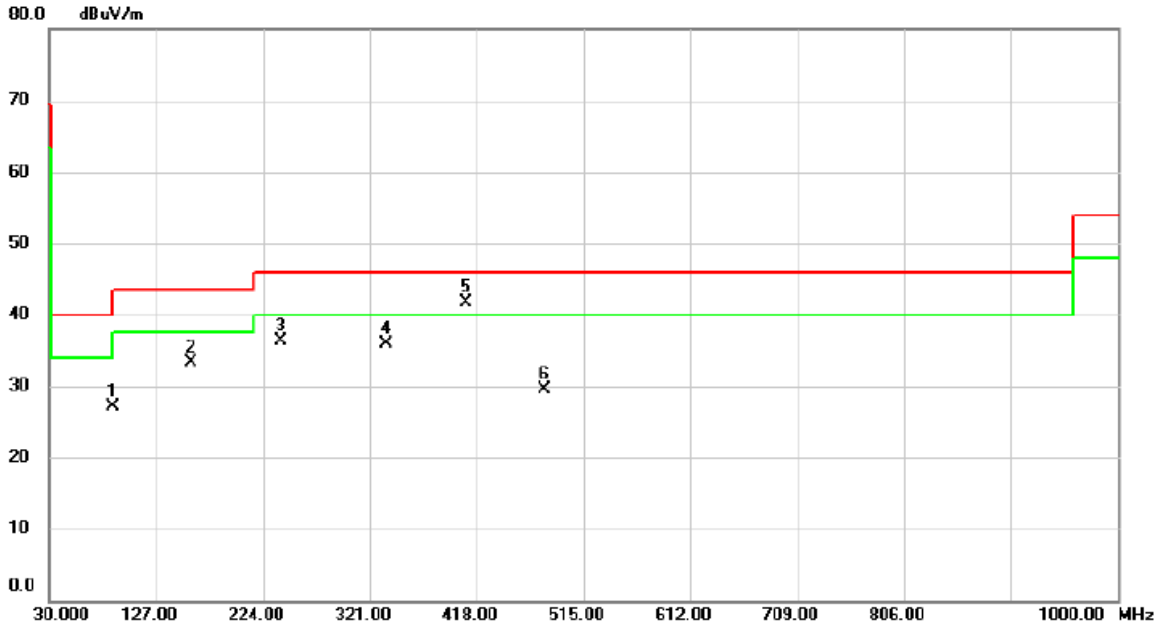
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2024/8/27
Test Frequency	5610MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		78.5485	43.72	-16.58	27.14	40.00	-12.86	peak	
2		143.6036	41.51	-12.35	29.16	43.50	-14.34	peak	
3		239.7297	44.90	-13.63	31.27	46.00	-14.73	peak	
4		335.8560	46.96	-10.71	36.25	46.00	-9.75	peak	
5	*	408.6787	53.02	-8.71	44.31	46.00	-1.69	peak	
6		479.5596	42.23	-6.97	35.26	46.00	-10.74	peak	

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

Test Mode	IEEE 802.11ac (VHT80)	Test Date	2024/8/27
Test Frequency	5610MHz	Polarization	Horizontal

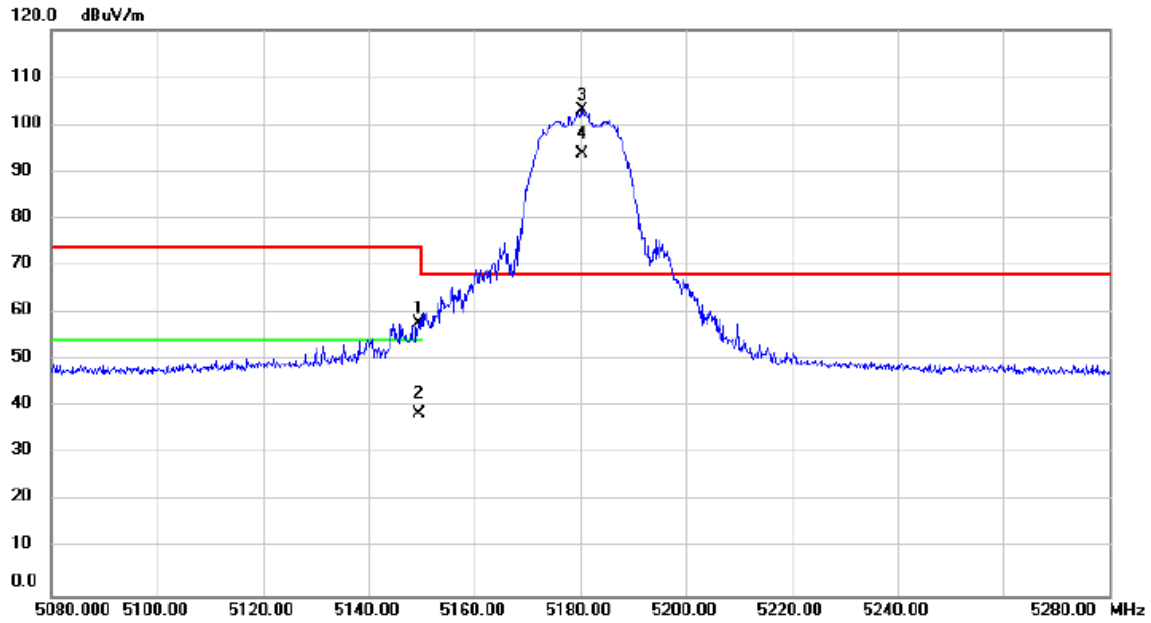


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		87.9736	45.08	-17.88	27.20	40.00	-12.80	peak	
2		158.2986	45.15	-11.91	33.24	43.50	-10.26	peak	
3		240.0050	49.97	-13.60	36.37	46.00	-9.63	peak	
4		335.9703	46.66	-10.71	35.95	46.00	-10.05	peak	
5	*	408.3646	50.52	-8.72	41.80	46.00	-4.20	peak	
6		480.0476	36.54	-6.96	29.58	46.00	-16.42	peak	

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

APPENDIX C RADIATED EMISSIONS - ABOVE 1 GHZ

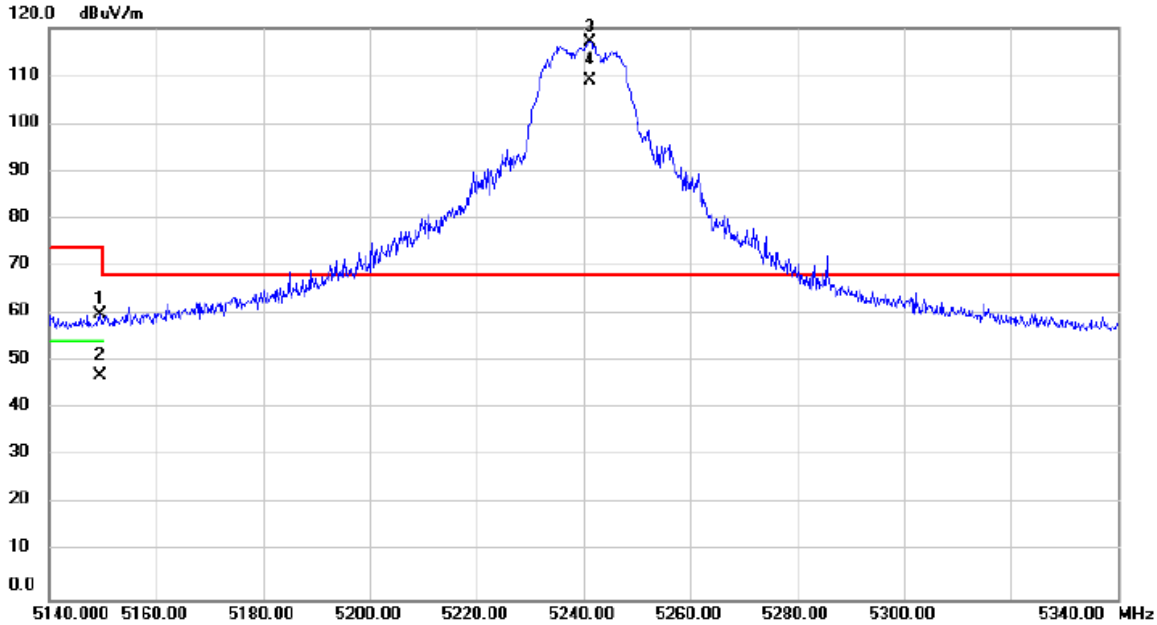
Test Mode	IEEE 802.11a	Test Date	2024/8/24
Test Frequency	5180MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5149.400	56.37	1.37	57.74	74.00	-16.26	peak	
2		5149.400	37.16	1.37	38.53	54.00	-15.47	AVG	
3	*	5180.400	101.58	1.39	102.97	68.20	34.77	peak	No Limit
4	X	5180.400	92.41	1.39	93.80	68.20	25.60	AVG	No Limit

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

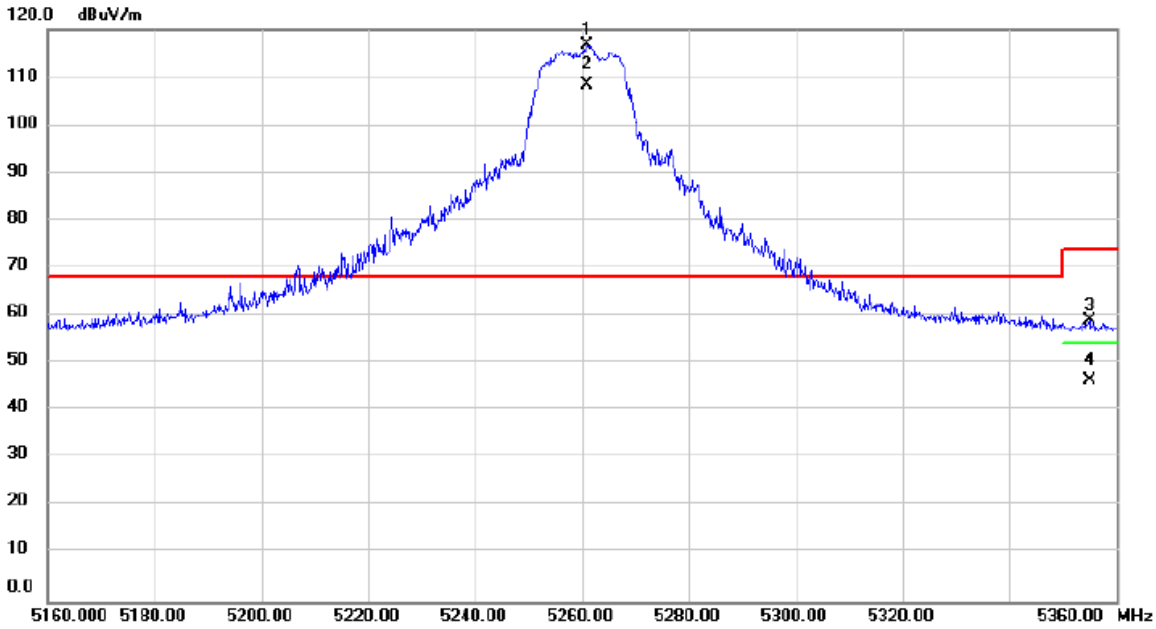
Test Mode	IEEE 802.11a	Test Date	2024/8/25
Test Frequency	5240MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5149.400	58.51	1.37	59.88	74.00	-14.12	peak	
2		5149.400	45.61	1.37	46.98	54.00	-7.02	AVG	
3	*	5241.200	115.81	1.43	117.24	68.20	49.04	peak	No Limit
4	X	5241.200	107.70	1.43	109.13	68.20	40.93	AVG	No Limit

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

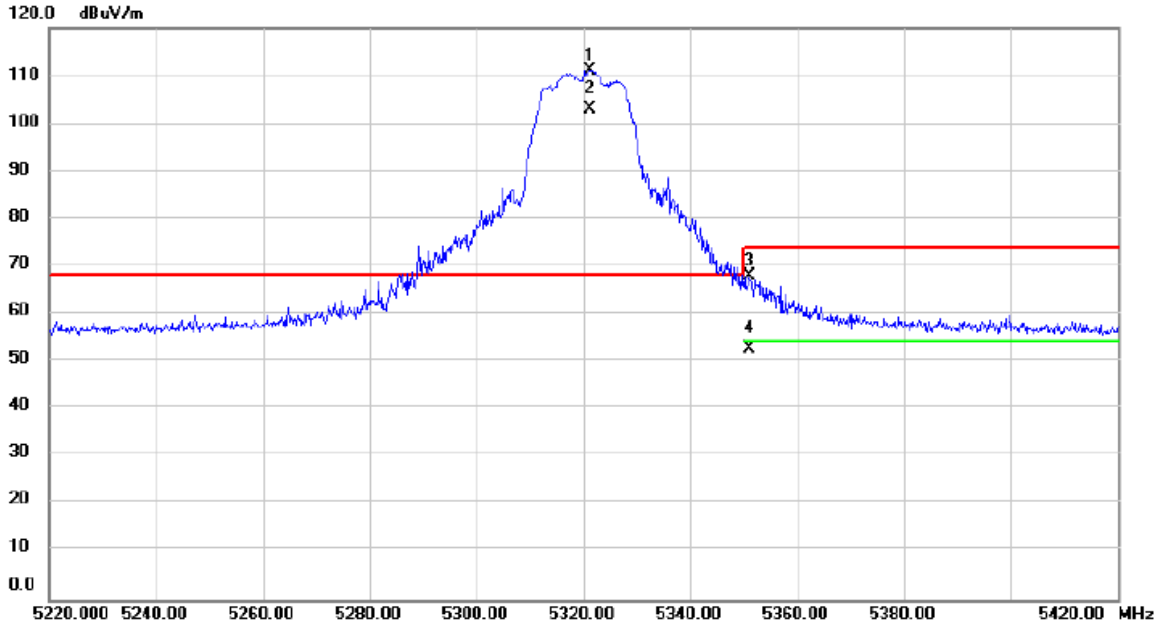
Test Mode	IEEE 802.11a	Test Date	2024/8/25
Test Frequency	5260MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5261.000	115.27	1.44	116.71	68.20	48.51	peak	No Limit
2	X	5261.000	107.04	1.44	108.48	68.20	40.28	AVG	No Limit
3		5355.000	57.48	1.50	58.98	74.00	-15.02	peak	
4		5355.000	44.86	1.50	46.36	54.00	-7.64	AVG	

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

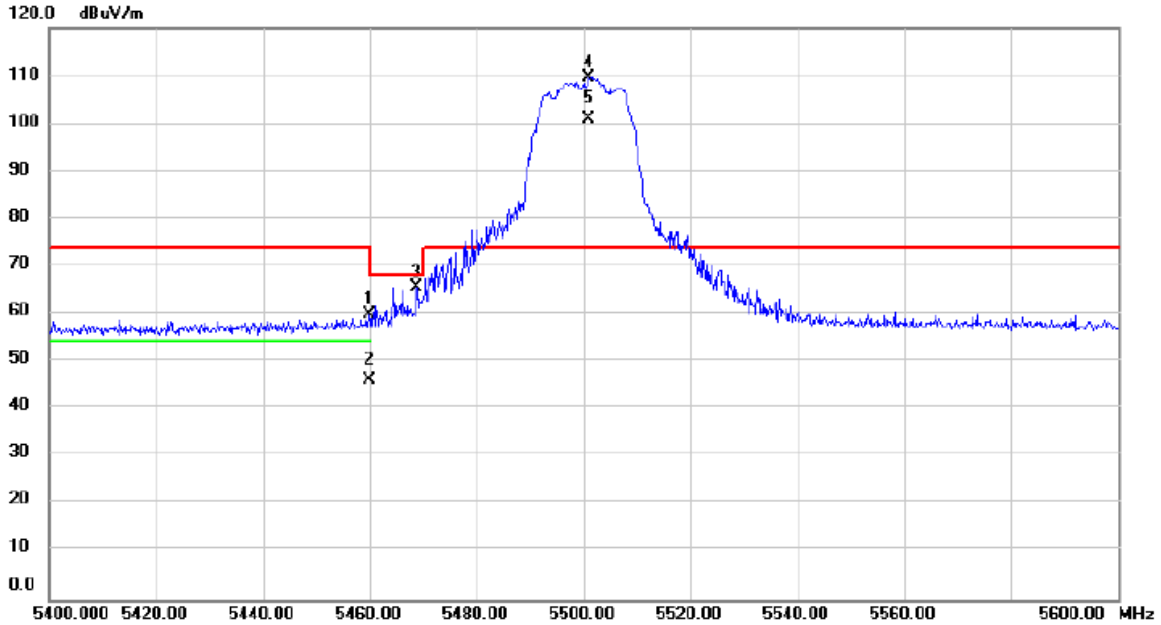
Test Mode	IEEE 802.11a	Test Date	2024/8/25
Test Frequency	5320MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5321.200	109.79	1.48	111.27	68.20	43.07	peak	No Limit
2	X	5321.200	101.51	1.48	102.99	68.20	34.79	AVG	No Limit
3		5351.000	66.45	1.50	67.95	74.00	-6.05	peak	
4		5351.000	51.08	1.50	52.58	54.00	-1.42	AVG	

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

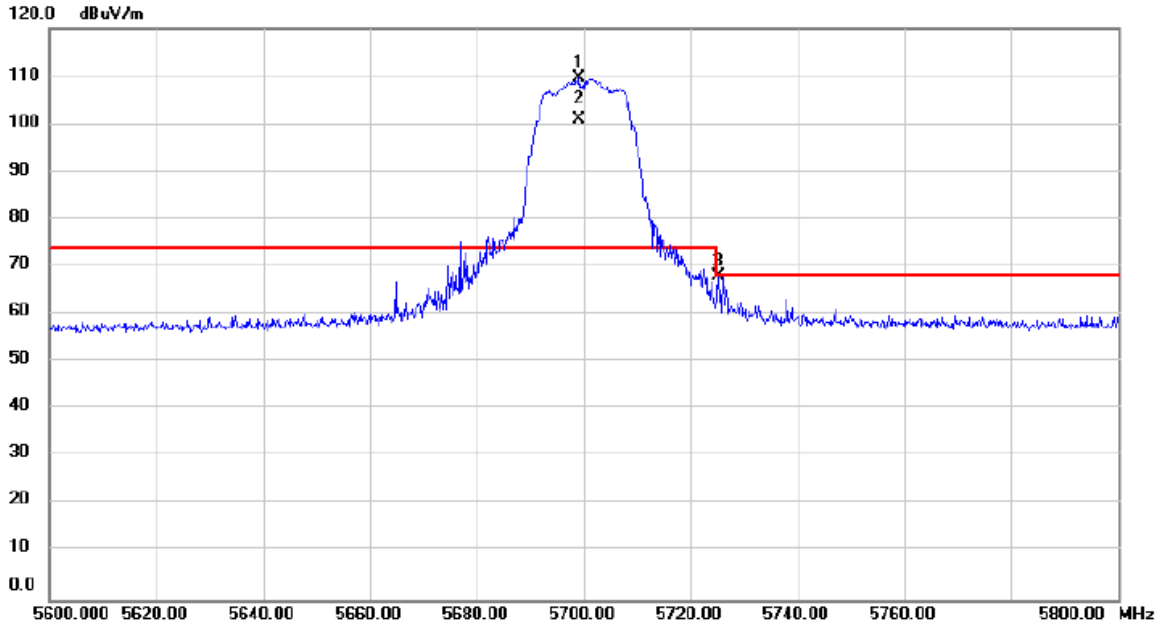
Test Mode	IEEE 802.11a	Test Date	2024/8/25
Test Frequency	5500MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5459.800	58.26	1.56	59.82	74.00	-14.18	peak	
2		5459.800	44.60	1.56	46.16	54.00	-7.84	AVG	
3		5468.600	64.05	1.56	65.61	68.20	-2.59	peak	
4	*	5500.800	108.02	1.58	109.60	74.00	35.60	peak	No Limit
5	X	5500.800	99.47	1.58	101.05	74.00	27.05	AVG	No Limit

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

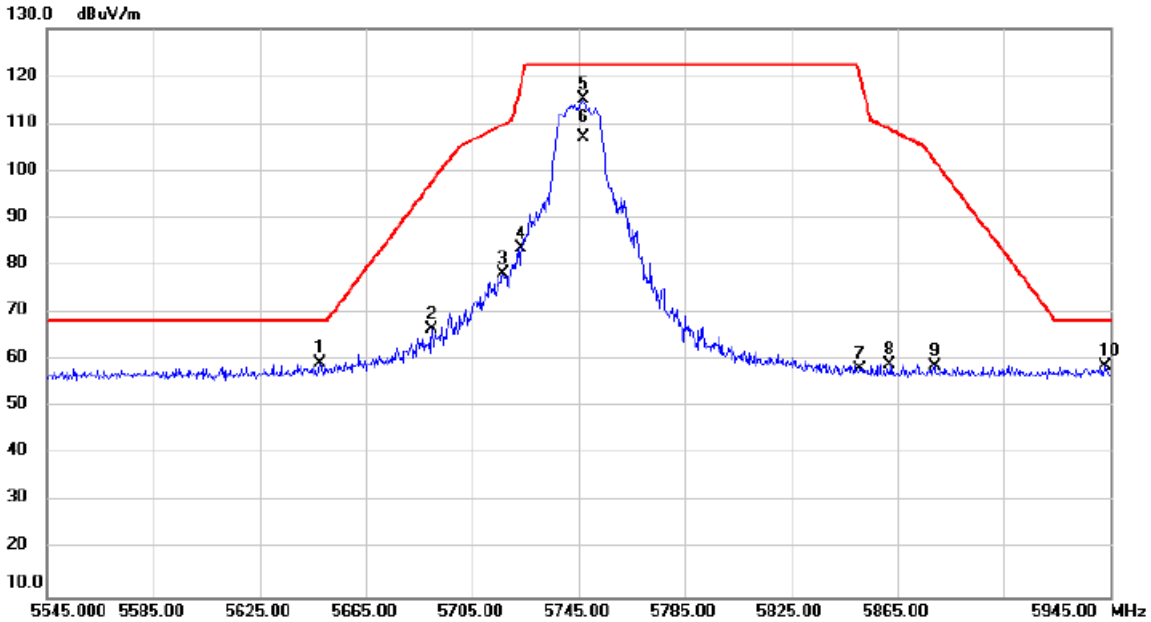
Test Mode	IEEE 802.11a	Test Date	2024/8/25
Test Frequency	5700MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5699.200	107.29	2.24	109.53	74.00	35.53	peak	No Limit
2	X	5699.200	98.74	2.24	100.98	74.00	26.98	AVG	No Limit
3		5725.200	65.60	2.32	67.92	68.20	-0.28	peak	

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

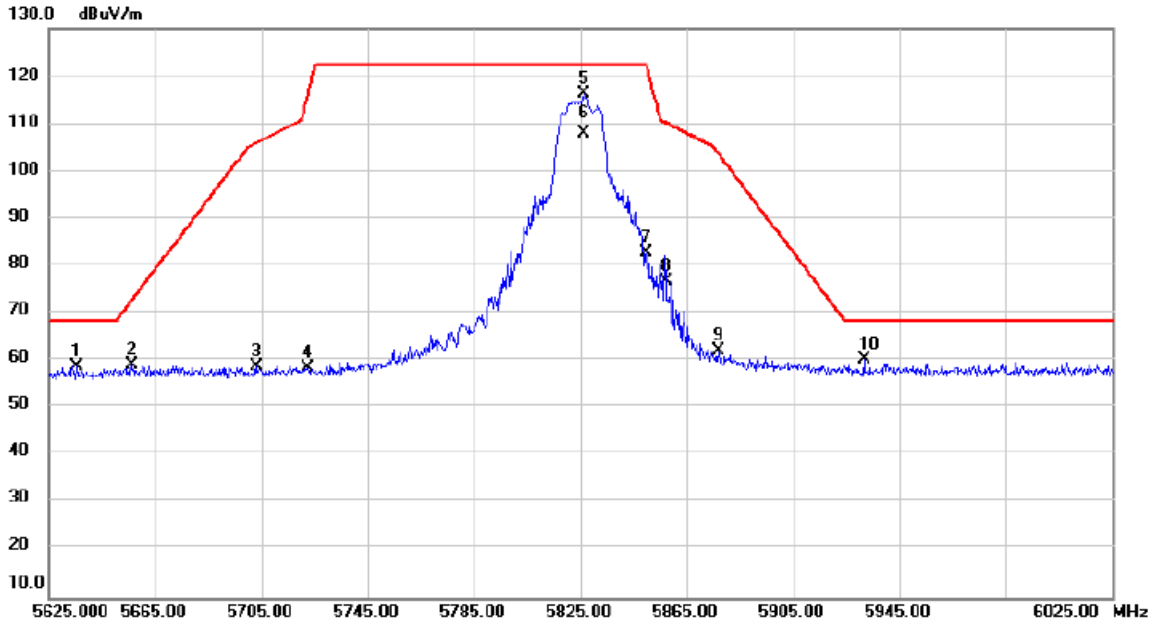
Test Mode	IEEE 802.11a	Test Date	2024/8/25
Test Frequency	5745MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5647.800	57.15	2.07	59.22	68.20	-8.98	peak	
2		5689.800	64.39	2.21	66.60	97.68	-31.08	peak	
3		5716.600	75.97	2.30	78.27	109.85	-31.58	peak	
4		5723.400	81.49	2.31	83.80	118.55	-34.75	peak	
5	*	5746.600	112.85	2.39	115.24	122.20	-6.96	peak	No Limit
6		5746.600	104.73	2.39	107.12	122.20	-15.08	AVG	No Limit
7		5851.000	55.54	2.73	58.27	119.92	-61.65	peak	
8		5862.200	56.36	2.77	59.13	108.78	-49.65	peak	
9		5879.000	56.02	2.82	58.84	102.23	-43.39	peak	
10		5943.000	55.79	3.03	58.82	68.20	-9.38	peak	

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

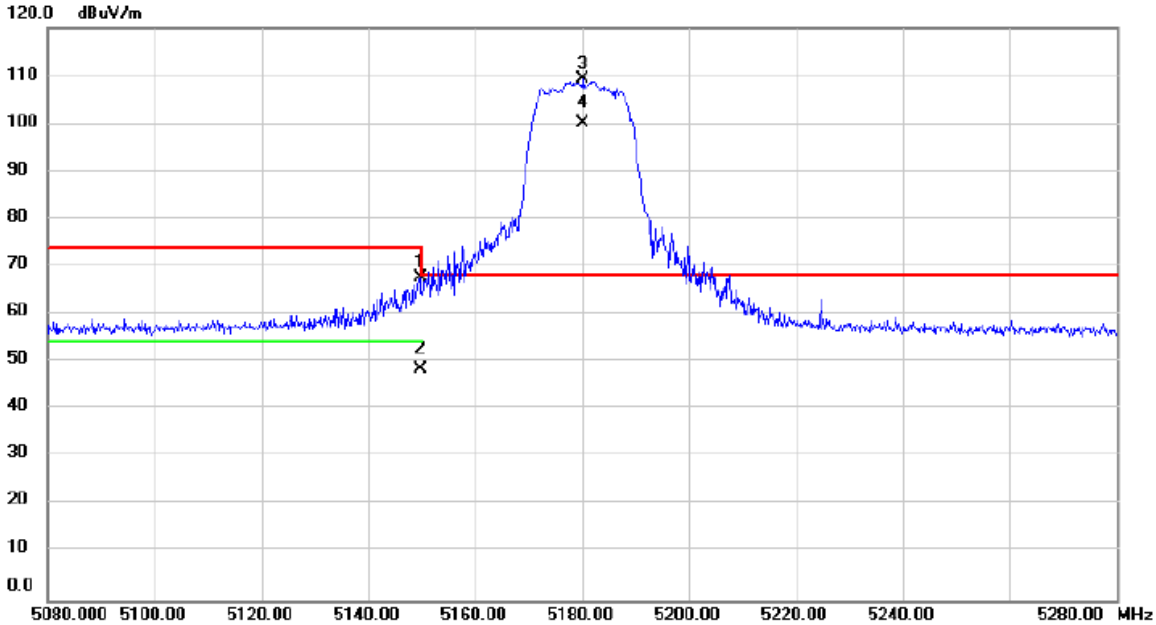
Test Mode	IEEE 802.11a	Test Date	2024/8/25
Test Frequency	5825MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5635.400	56.73	2.03	58.76	68.20	-9.44	peak	
2		5656.200	56.87	2.09	58.96	72.81	-13.85	peak	
3		5703.000	56.45	2.25	58.70	106.04	-47.34	peak	
4		5722.200	56.15	2.31	58.46	115.82	-57.36	peak	
5	*	5826.200	113.58	2.65	116.23	122.20	-5.97	peak	No Limit
6		5826.200	105.41	2.65	108.06	122.20	-14.14	AVG	No Limit
7		5849.800	80.03	2.72	82.75	122.20	-39.45	peak	
8		5857.000	73.98	2.75	76.73	110.24	-33.51	peak	
9		5877.000	59.23	2.82	62.05	103.71	-41.66	peak	
10		5931.800	57.14	3.00	60.14	68.20	-8.06	peak	

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

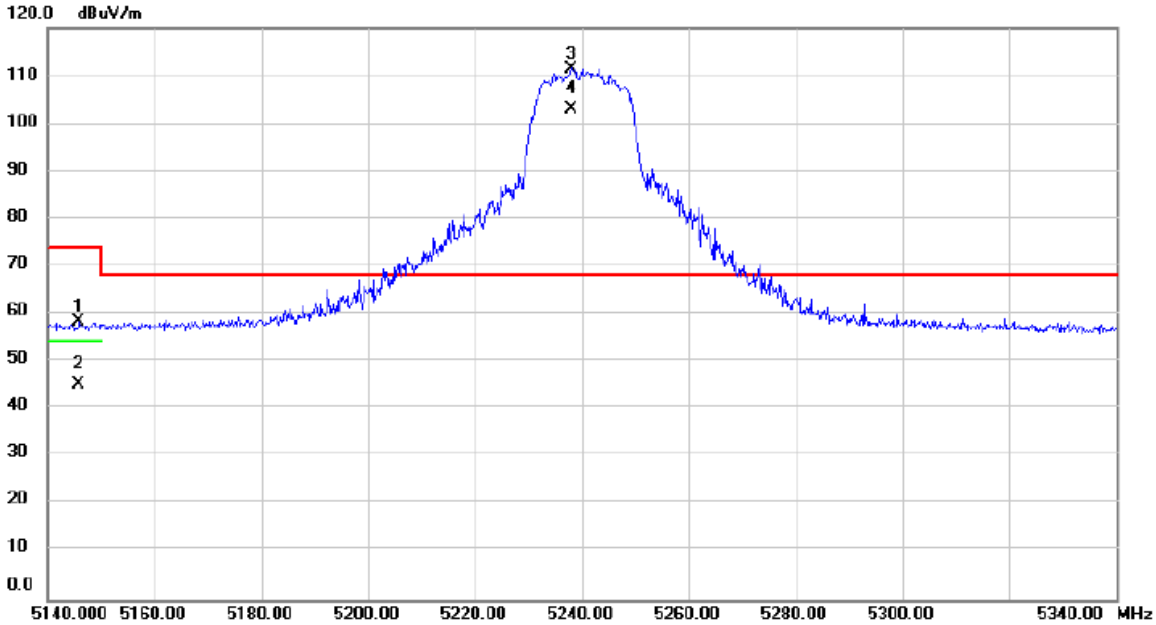
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/25
Test Frequency	5180MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5149.600	66.16	1.37	67.53	74.00	-6.47	peak	
2		5149.600	46.98	1.37	48.35	54.00	-5.65	AVG	
3	*	5180.200	107.84	1.39	109.23	68.20	41.03	peak	No Limit
4	X	5180.200	98.67	1.39	100.06	68.20	31.86	AVG	No Limit

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

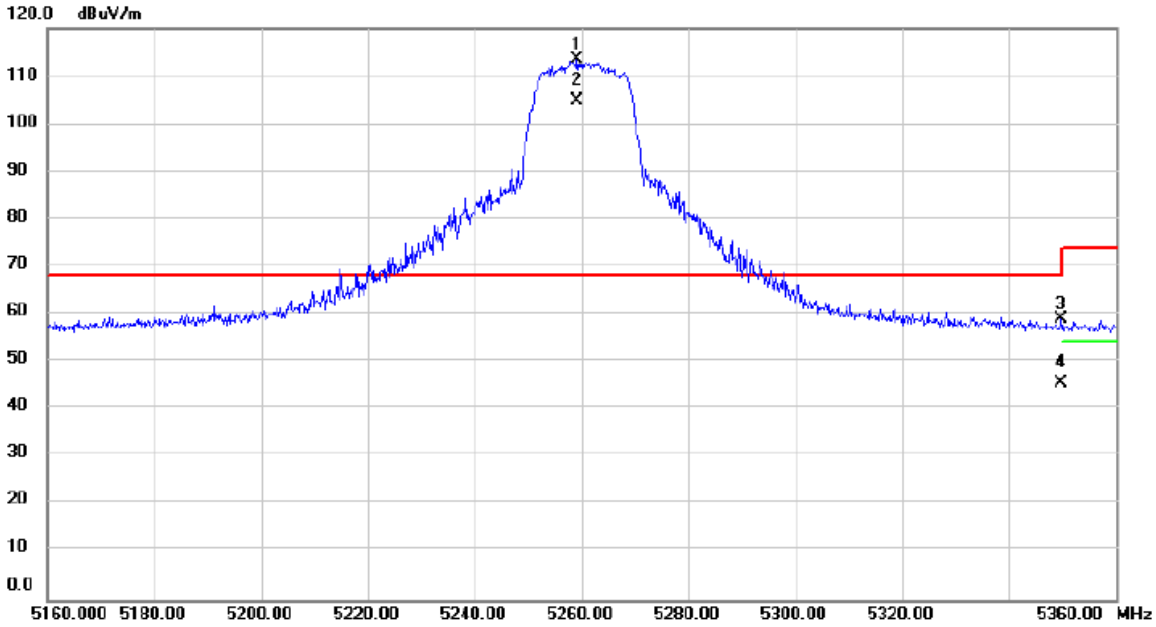
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/25
Test Frequency	5240MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5145.800	57.07	1.37	58.44	74.00	-15.56	peak	
2		5145.800	43.90	1.37	45.27	54.00	-8.73	AVG	
3	*	5238.000	110.17	1.43	111.60	68.20	43.40	peak	No Limit
4	X	5238.000	101.54	1.43	102.97	68.20	34.77	AVG	No Limit

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

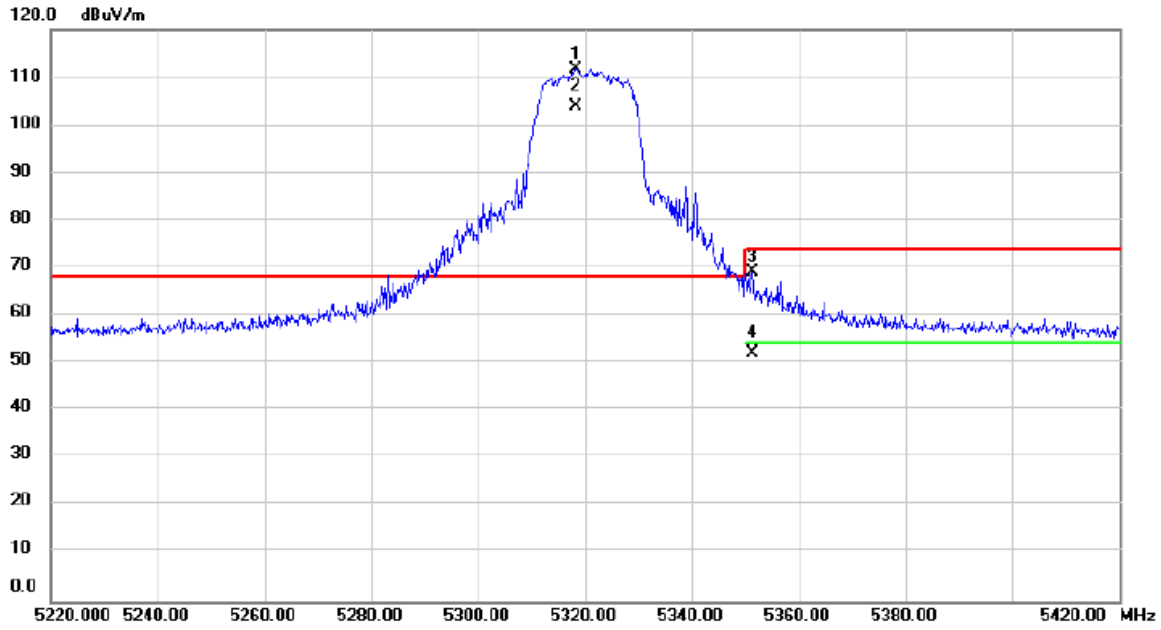
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/25
Test Frequency	5260MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5259.200	112.19	1.44	113.63	68.20	45.43	peak	No Limit
2	X	5259.200	103.56	1.44	105.00	68.20	36.80	AVG	No Limit
3		5349.800	57.42	1.50	58.92	68.20	-9.28	peak	
4		5349.800	44.10	1.50	45.60	68.20	-22.60	AVG	

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

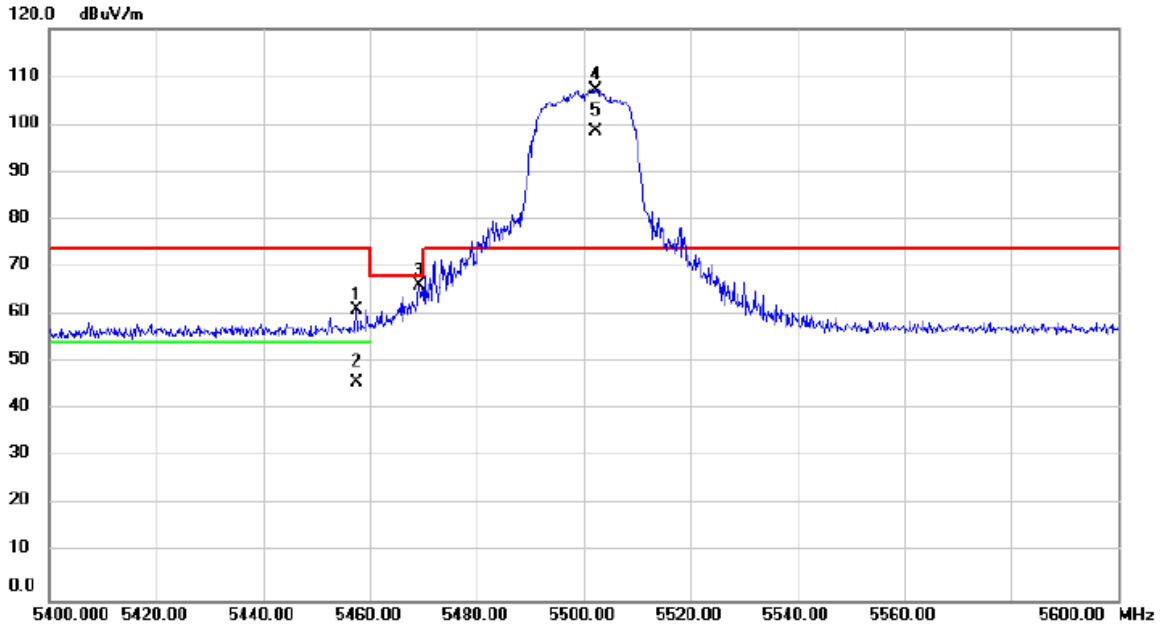
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/25
Test Frequency	5320MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5318.400	110.31	1.48	111.79	68.20	43.59	peak	No Limit
2	X	5318.400	102.42	1.48	103.90	68.20	35.70	AVG	No Limit
3		5351.400	67.62	1.50	69.12	74.00	-4.88	peak	
4		5351.400	50.45	1.50	51.95	54.00	-2.05	AVG	

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

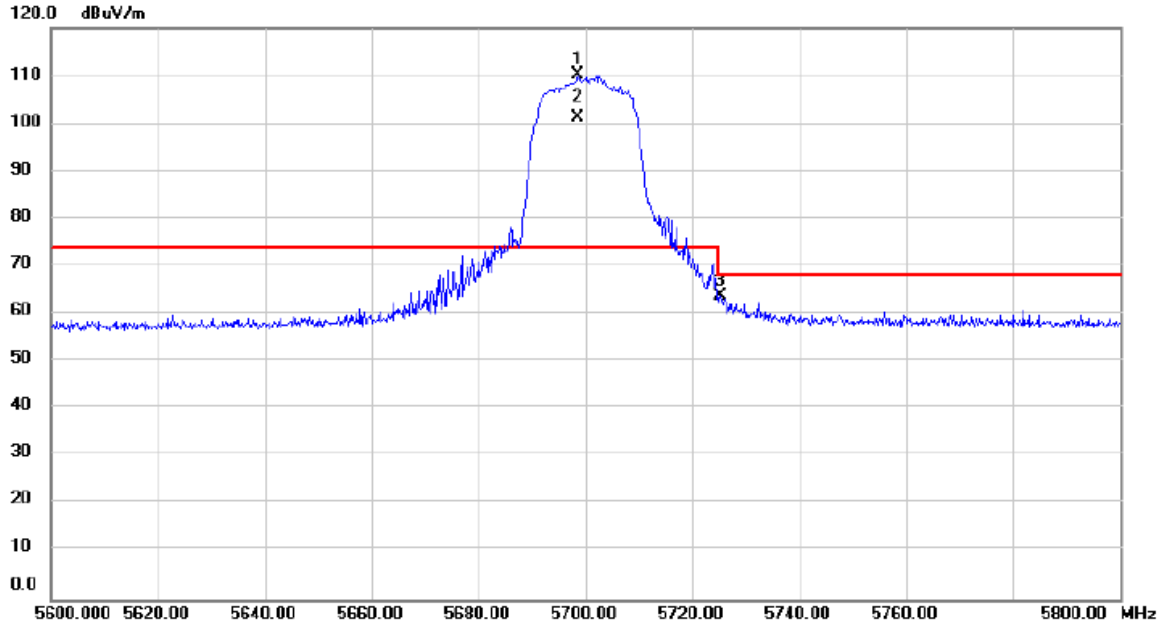
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/25
Test Frequency	5500MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5457.400	59.64	1.55	61.19	74.00	-12.81	peak	
2		5457.400	44.28	1.55	45.83	54.00	-8.17	AVG	
3		5469.200	64.51	1.56	66.07	68.20	-2.13	peak	
4	*	5502.200	105.76	1.58	107.34	74.00	33.34	peak	No Limit
5	X	5502.200	96.91	1.58	98.49	74.00	24.49	AVG	No Limit

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

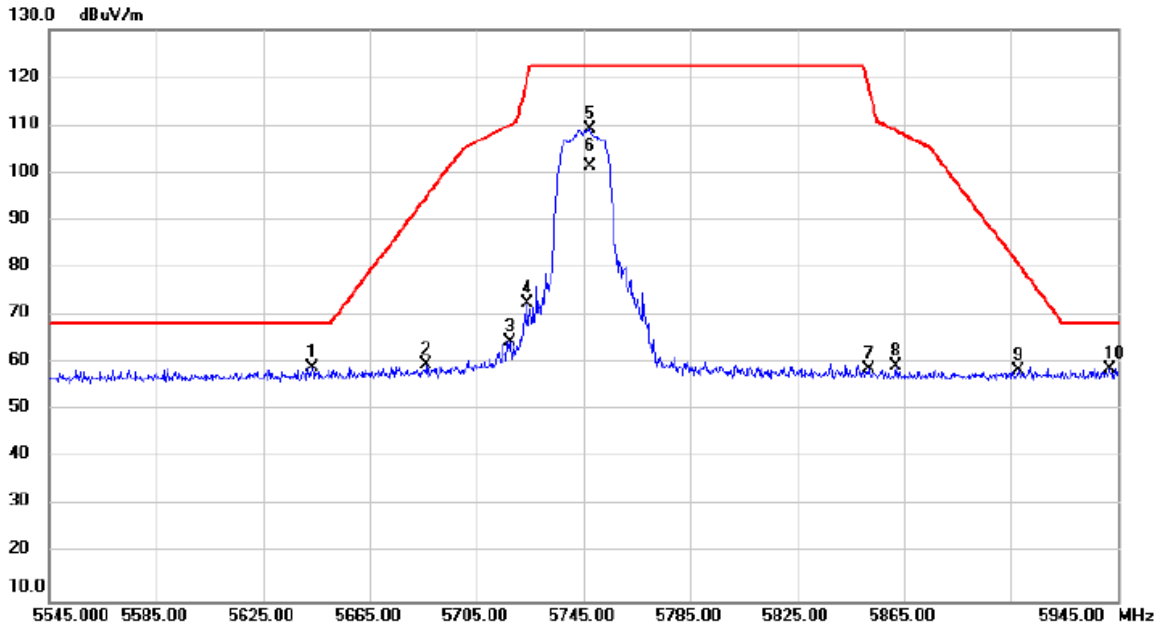
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/25
Test Frequency	5700MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5698.600	108.05	2.24	110.29	74.00	36.29	peak	No Limit
2	X	5698.600	99.12	2.24	101.36	74.00	27.36	AVG	No Limit
3		5725.200	61.30	2.32	63.62	68.20	-4.58	peak	

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

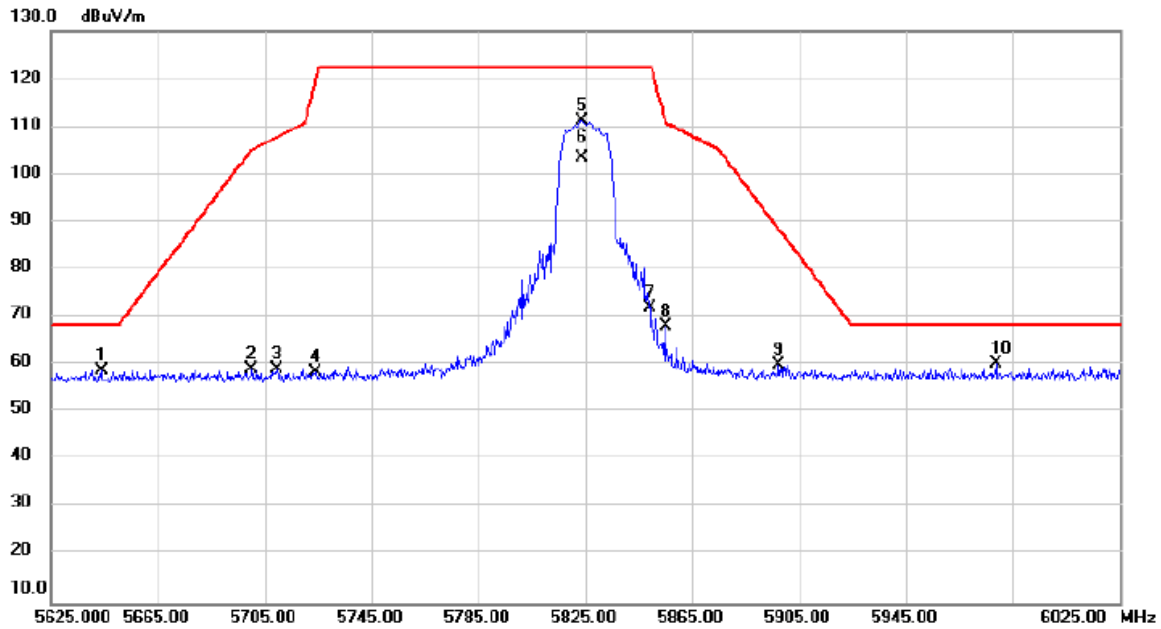
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/25
Test Frequency	5745MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5643.400	56.93	2.06	58.99	68.20	-9.21	peak	
2		5686.200	57.36	2.19	59.55	95.02	-35.47	peak	
3		5717.400	62.22	2.30	64.52	110.07	-45.55	peak	
4		5724.200	70.38	2.31	72.69	120.38	-47.69	peak	
5		5747.400	106.75	2.39	109.14	122.20	-13.06	peak	No Limit
6		5747.400	98.93	2.39	101.32	122.20	-20.88	AVG	No Limit
7		5851.800	55.98	2.73	58.71	118.09	-59.38	peak	
8		5861.800	56.48	2.77	59.25	108.89	-49.64	peak	
9		5907.800	55.51	2.92	58.43	80.89	-22.46	peak	
10		5941.800	55.76	3.03	58.79	68.20	-9.41	peak	

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

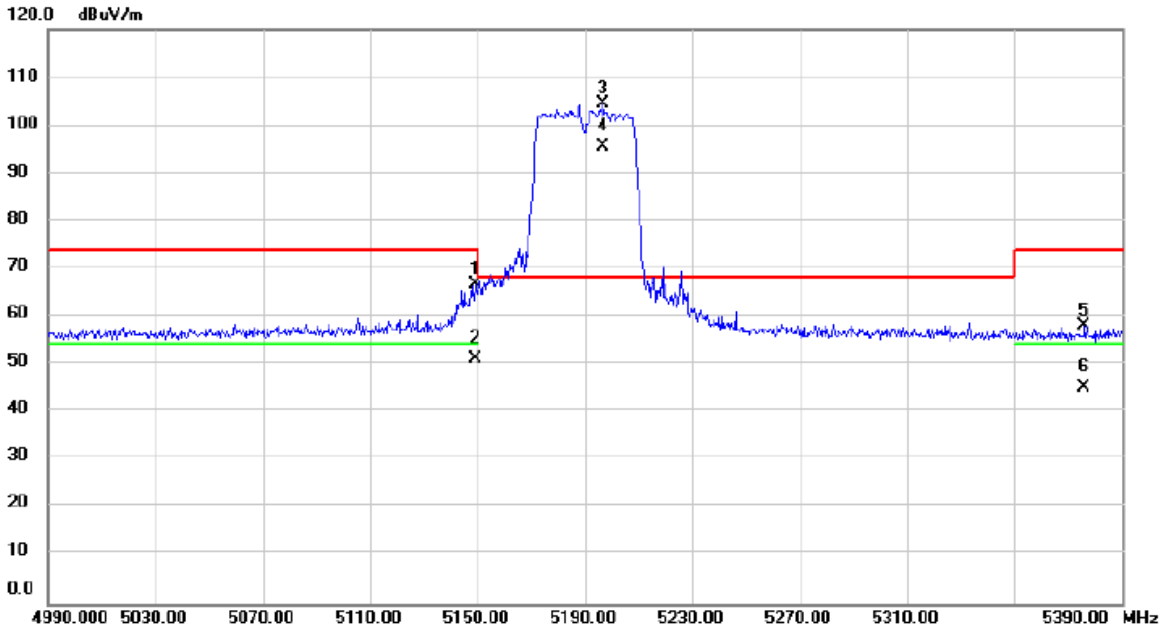
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/25
Test Frequency	5825MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5643.800	56.83	2.06	58.89	68.20	-9.31	peak	
2		5700.200	56.72	2.24	58.96	105.26	-46.30	peak	
3		5709.400	56.64	2.27	58.91	107.83	-48.92	peak	
4		5724.200	56.06	2.31	58.37	120.38	-62.01	peak	
5		5823.800	108.54	2.64	111.18	122.20	-11.02	peak	No Limit
6		5823.800	100.88	2.64	103.52	122.20	-18.68	AVG	No Limit
7		5849.000	69.15	2.72	71.87	122.20	-50.33	peak	
8		5855.000	65.19	2.74	67.93	110.80	-42.87	peak	
9		5897.400	57.00	2.88	59.88	88.59	-28.71	peak	
10	*	5978.600	57.01	3.15	60.16	68.20	-8.04	peak	

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

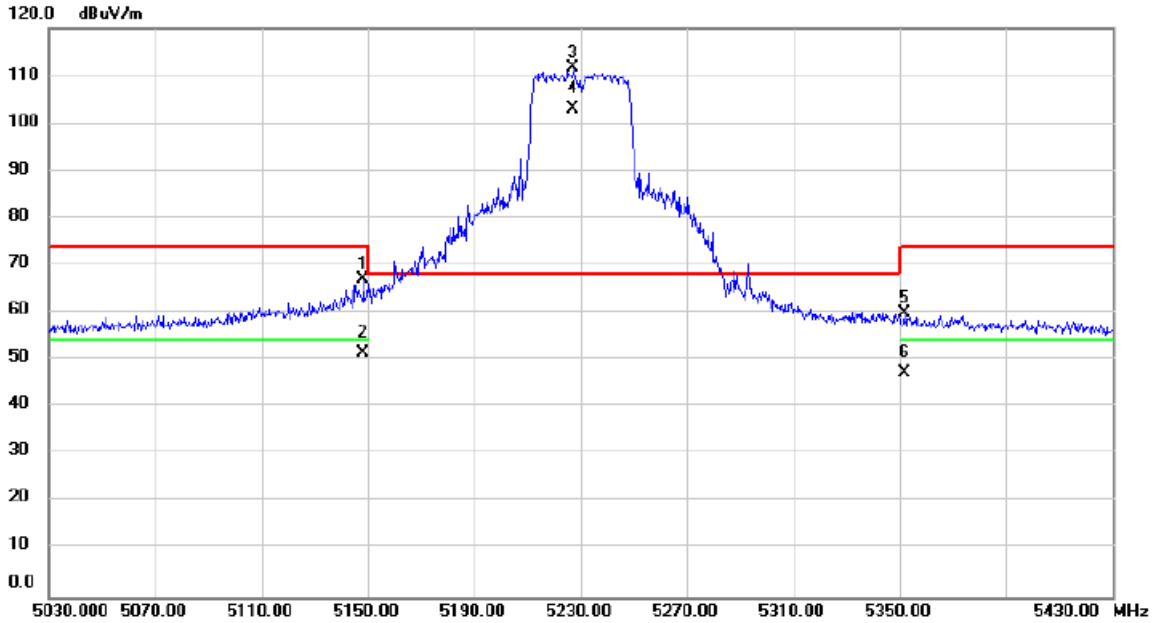
Test Mode	IEEE 802.11n (HT40)	Test Date	2024/8/25
Test Frequency	5190MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5149.200	65.36	1.37	66.73	74.00	-7.27	peak	
2		5149.200	49.72	1.37	51.09	54.00	-2.91	AVG	
3	*	5196.800	103.14	1.40	104.54	68.20	36.34	peak	No Limit
4	X	5196.800	94.17	1.40	95.57	68.20	27.37	AVG	No Limit
5		5376.000	56.55	1.50	58.05	74.00	-15.95	peak	
6		5376.000	43.61	1.50	45.11	54.00	-8.89	AVG	

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

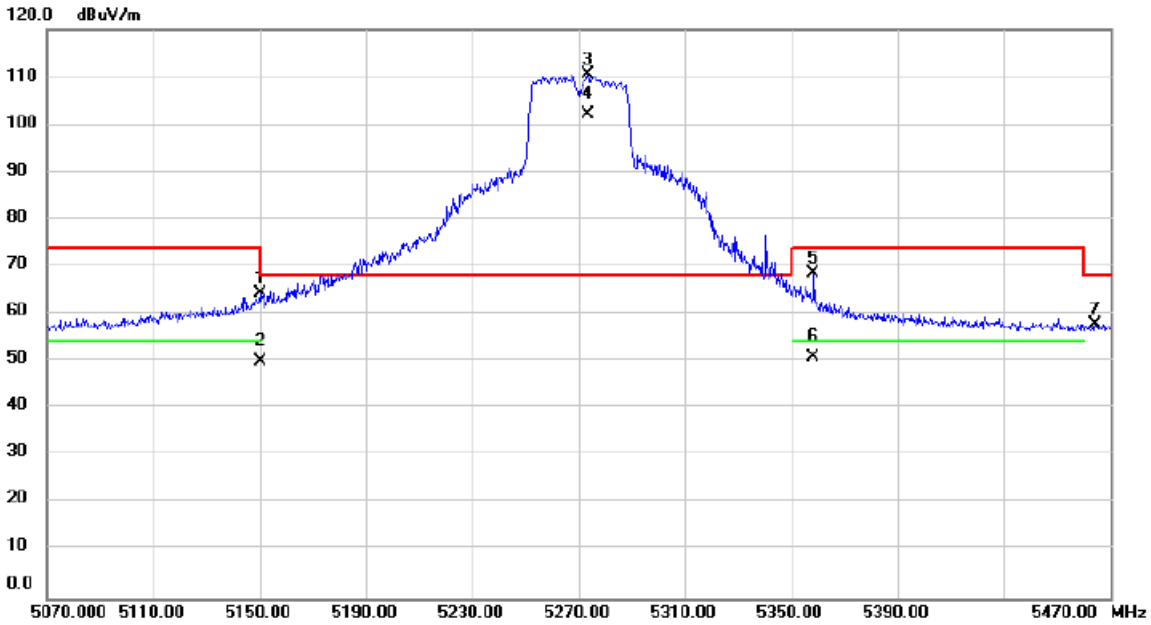
Test Mode	IEEE 802.11n (HT40)	Test Date	2024/8/25
Test Frequency	5230MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5148.400	65.82	1.37	67.19	74.00	-6.81	peak	
2		5148.400	50.03	1.37	51.40	54.00	-2.60	AVG	
3	*	5227.200	110.20	1.42	111.62	68.20	43.42	peak	No Limit
4	X	5227.200	101.49	1.42	102.91	68.20	34.71	AVG	No Limit
5		5351.600	58.48	1.50	59.98	74.00	-14.02	peak	
6		5351.600	45.85	1.50	47.35	54.00	-6.65	AVG	

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

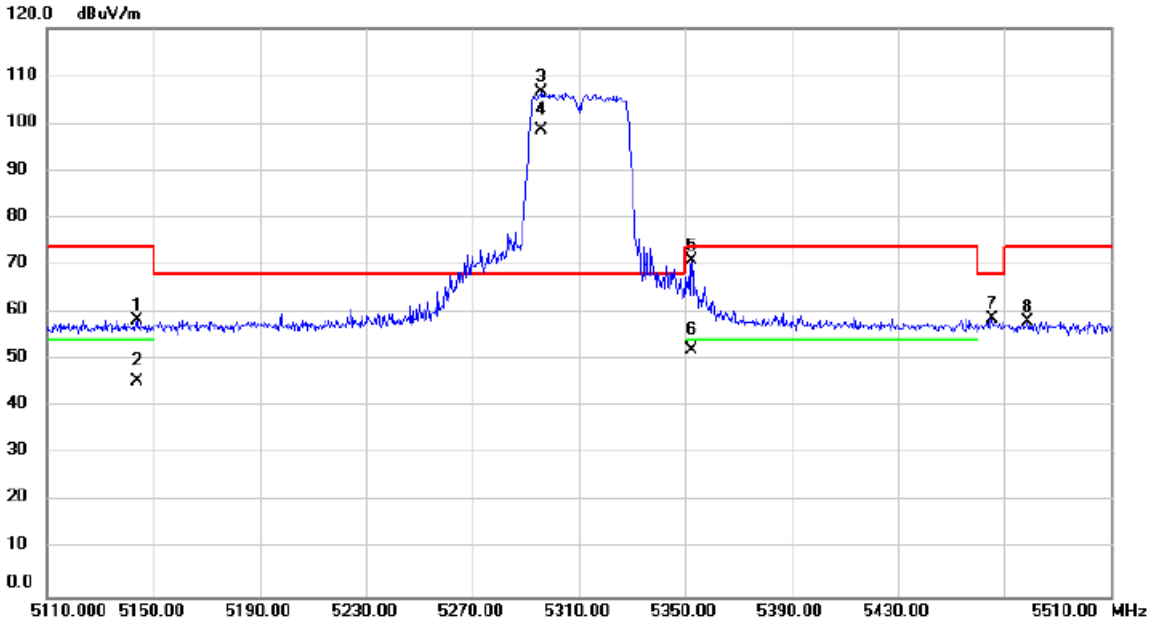
Test Mode	IEEE 802.11n (HT40)	Test Date	2024/8/25
Test Frequency	5270MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	63.02	1.37	64.39	68.20	-3.81	peak	
2		5150.000	48.45	1.37	49.82	54.00	-4.18	AVG	
3	*	5273.600	109.03	1.45	110.48	68.20	42.28	peak	No Limit
4	X	5273.600	100.79	1.45	102.24	68.20	34.04	AVG	No Limit
5		5358.400	66.99	1.50	68.49	74.00	-5.51	peak	
6		5358.400	49.30	1.50	50.80	54.00	-3.20	AVG	
7		5464.400	56.30	1.56	57.86	68.20	-10.34	peak	

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

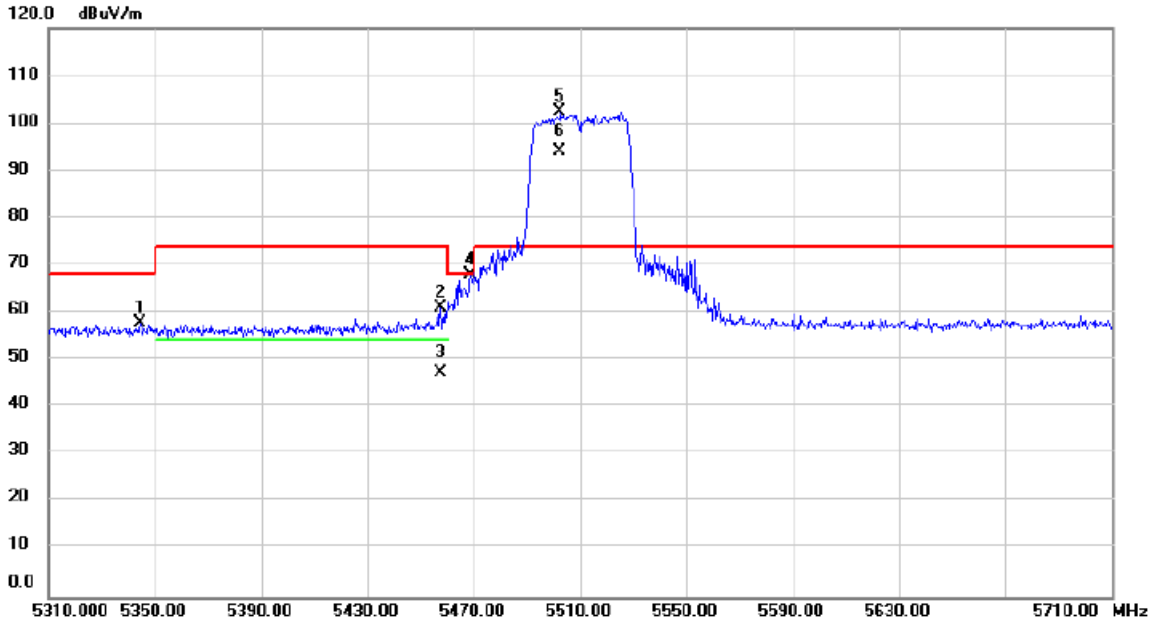
Test Mode	IEEE 802.11n (HT40)	Test Date	2024/8/25
Test Frequency	5310MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5143.600	57.09	1.37	58.46	74.00	-15.54	peak	
2		5143.600	44.12	1.37	45.49	54.00	-8.51	AVG	
3	*	5296.000	105.25	1.46	106.71	68.20	38.51	peak	No Limit
4	X	5296.000	97.11	1.46	98.57	68.20	30.37	AVG	No Limit
5		5352.400	69.43	1.50	70.93	74.00	-3.07	peak	
6		5352.400	50.62	1.50	52.12	54.00	-1.88	AVG	
7		5465.600	57.15	1.56	58.71	68.20	-9.49	peak	
8		5478.800	56.52	1.57	58.09	74.00	-15.91	peak	

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

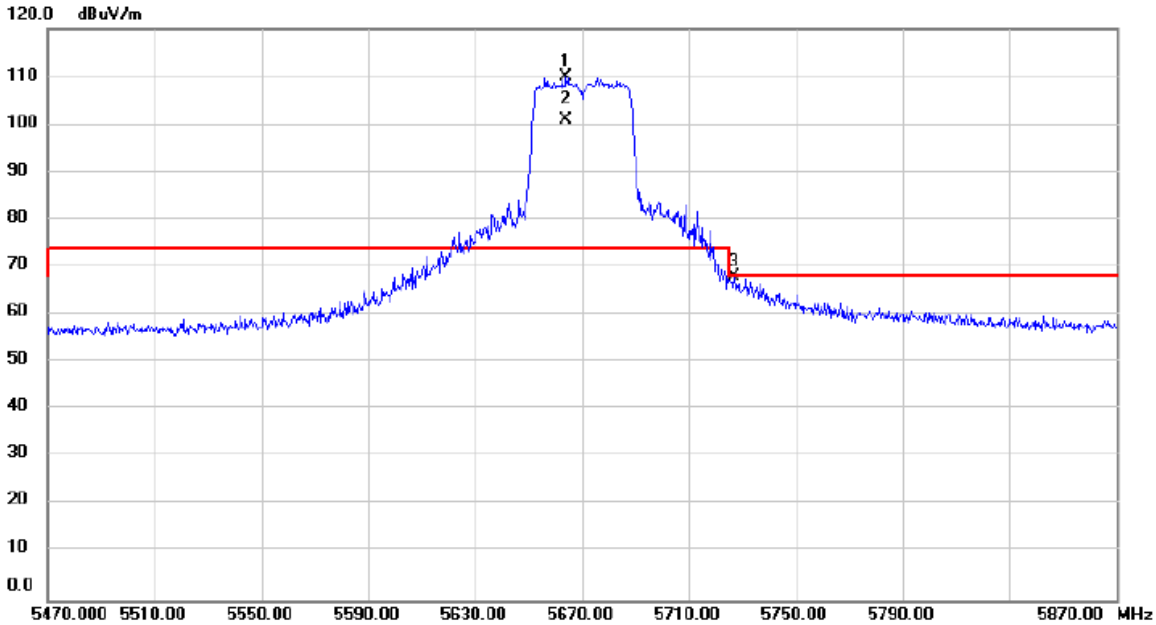
Test Mode	IEEE 802.11n (HT40)	Test Date	2024/8/25
Test Frequency	5510MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5344.400	56.36	1.49	57.85	68.20	-10.35	peak	
2		5457.600	59.58	1.55	61.13	74.00	-12.87	peak	
3		5457.600	45.64	1.55	47.19	54.00	-6.81	AVG	
4		5468.800	66.32	1.56	67.88	68.20	-0.32	peak	
5	*	5502.400	100.89	1.59	102.48	74.00	28.48	peak	No Limit
6	X	5502.400	92.33	1.59	93.92	74.00	19.92	AVG	No Limit

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

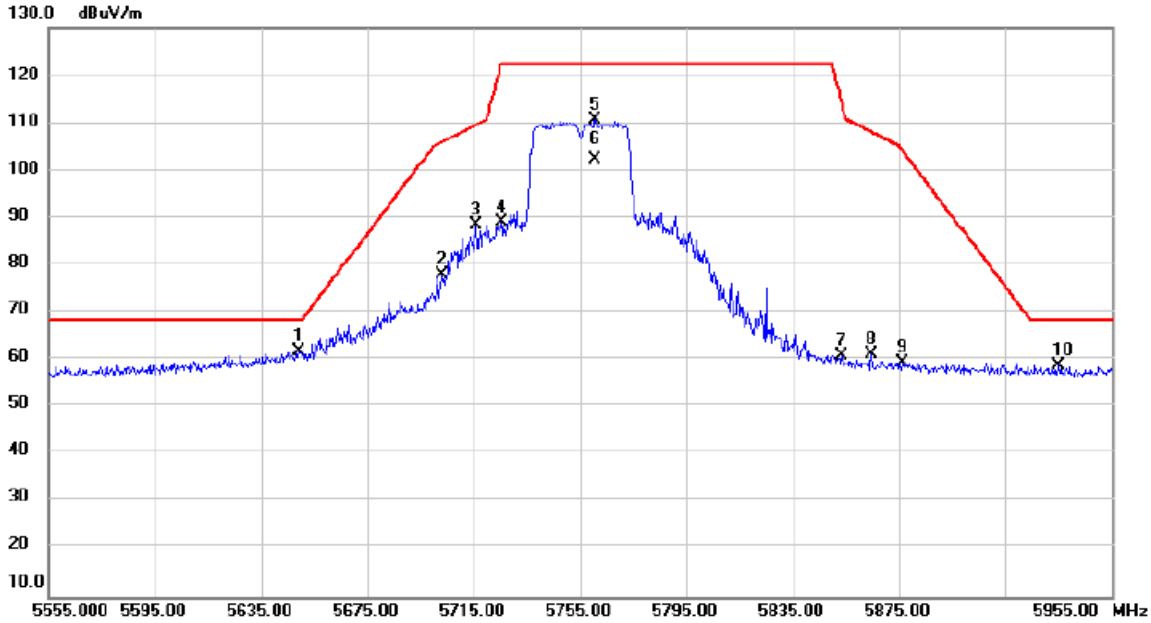
Test Mode	IEEE 802.11n (HT40)	Test Date	2024/8/25
Test Frequency	5670MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5664.000	107.78	2.12	109.90	74.00	35.90	peak	No Limit
2	X	5664.000	98.80	2.12	100.92	74.00	26.92	AVG	No Limit
3		5726.800	65.60	2.33	67.93	68.20	-0.27	peak	

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

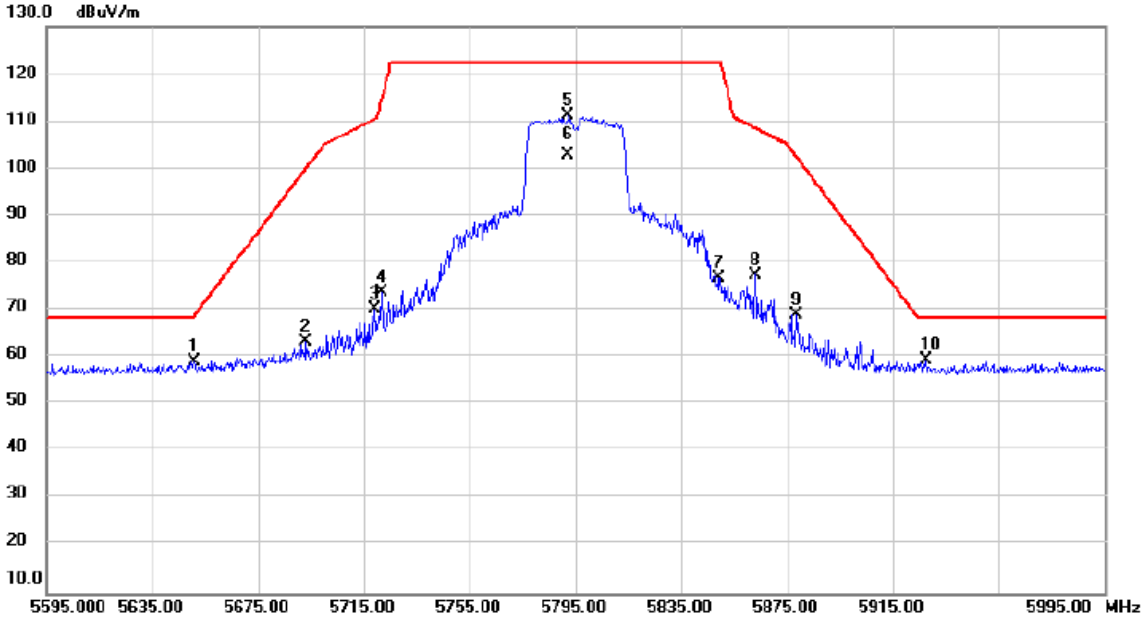
Test Mode	IEEE 802.11n (HT40)	Test Date	2024/8/25
Test Frequency	5755MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5649.000	59.67	2.07	61.74	68.20	-6.46	peak	
2		5703.000	75.64	2.25	77.89	106.04	-28.15	peak	
3		5715.800	86.04	2.28	88.32	109.63	-21.31	peak	
4		5725.400	86.66	2.32	88.98	122.20	-33.22	peak	
5		5760.600	108.31	2.43	110.74	122.20	-11.46	peak	No Limit
6		5760.600	99.89	2.43	102.32	122.20	-19.88	AVG	No Limit
7		5853.400	58.22	2.74	60.96	114.45	-53.49	peak	
8		5864.600	58.32	2.77	61.09	108.11	-47.02	peak	
9		5876.200	56.44	2.82	59.26	104.31	-45.05	peak	
10		5935.000	55.69	3.01	58.70	68.20	-9.50	peak	

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

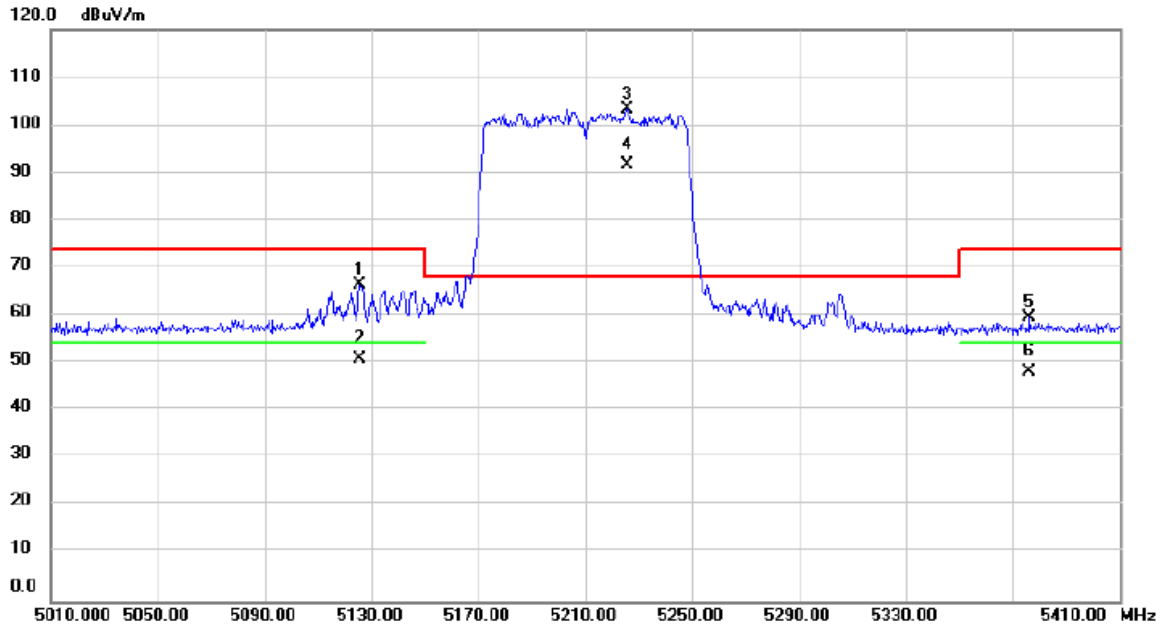
Test Mode	IEEE 802.11n (HT40)	Test Date	2024/8/25
Test Frequency	5795MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5650.600	56.83	2.08	58.91	68.65	-9.74	peak	
2		5693.000	61.19	2.21	63.40	100.04	-36.64	peak	
3		5719.000	67.94	2.30	70.24	110.52	-40.28	peak	
4		5721.800	71.31	2.31	73.62	114.91	-41.29	peak	
5		5792.200	108.69	2.53	111.22	122.20	-10.98	peak	No Limit
6		5792.200	100.28	2.53	102.81	122.20	-19.39	AVG	No Limit
7		5849.400	74.03	2.72	76.75	122.20	-45.45	peak	
8		5863.000	74.73	2.77	77.50	108.56	-31.06	peak	
9		5878.600	66.26	2.82	69.08	102.53	-33.45	peak	
10	*	5927.400	56.51	2.98	59.49	68.20	-8.71	peak	

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

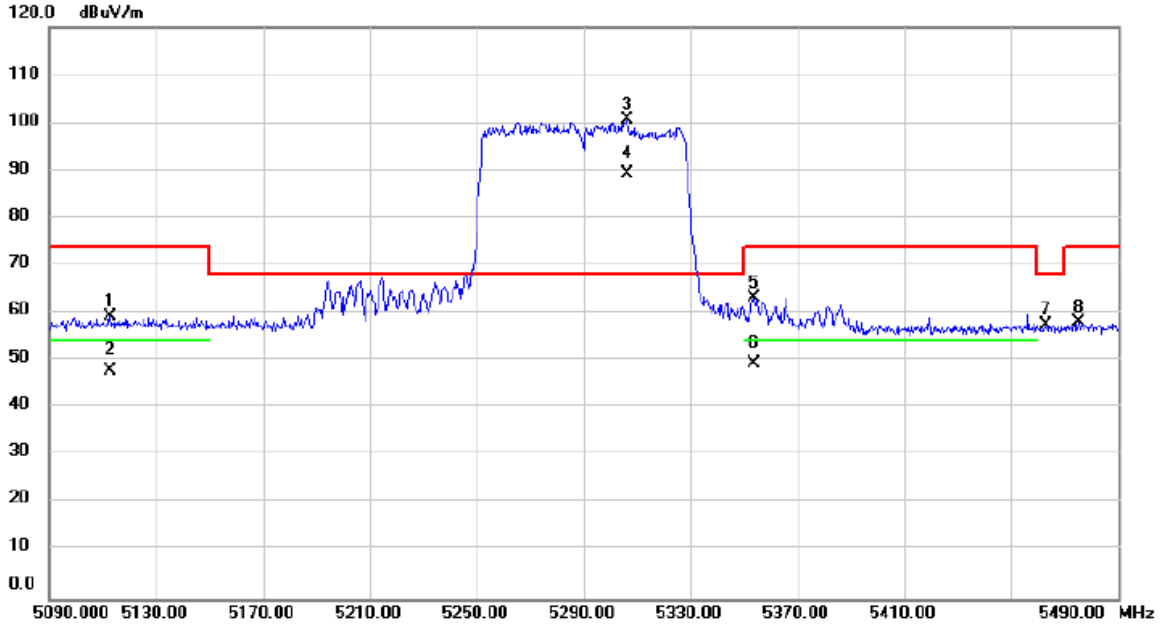
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2024/8/25
Test Frequency	5210MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5125.600	65.08	1.36	66.44	74.00	-7.56	peak	
2		5125.600	49.48	1.36	50.84	54.00	-3.16	AVG	
3	*	5225.600	102.02	1.42	103.44	68.20	35.24	peak	No Limit
4	X	5225.600	90.26	1.42	91.68	68.20	23.48	AVG	No Limit
5		5376.400	58.12	1.50	59.62	74.00	-14.38	peak	
6		5376.400	46.59	1.50	48.09	54.00	-5.91	AVG	

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

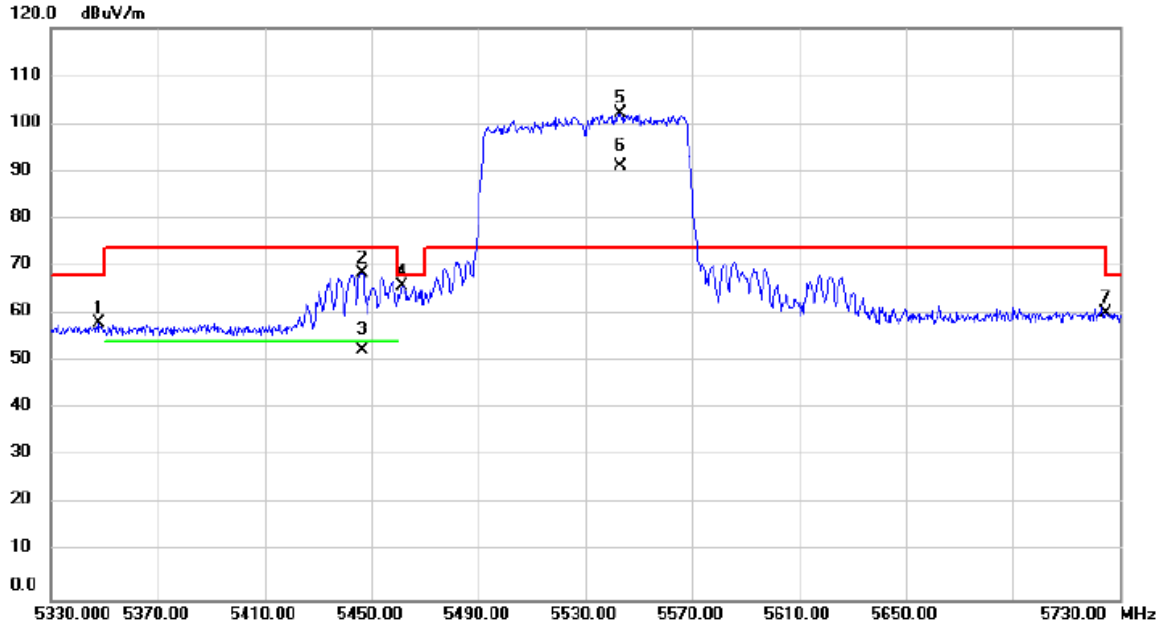
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2024/8/25
Test Frequency	5290MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5112.800	57.78	1.36	59.14	74.00	-14.86	peak	
2		5112.800	46.54	1.36	47.90	54.00	-6.10	AVG	
3	*	5306.000	99.32	1.47	100.79	68.20	32.59	peak	No Limit
4	X	5306.000	87.73	1.47	89.20	68.20	21.00	AVG	No Limit
5		5353.600	61.56	1.50	63.06	74.00	-10.94	peak	
6		5353.600	47.81	1.50	49.31	54.00	-4.69	AVG	
7		5463.200	56.04	1.56	57.60	68.20	-10.60	peak	
8		5475.200	56.49	1.56	58.05	74.00	-15.95	peak	

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

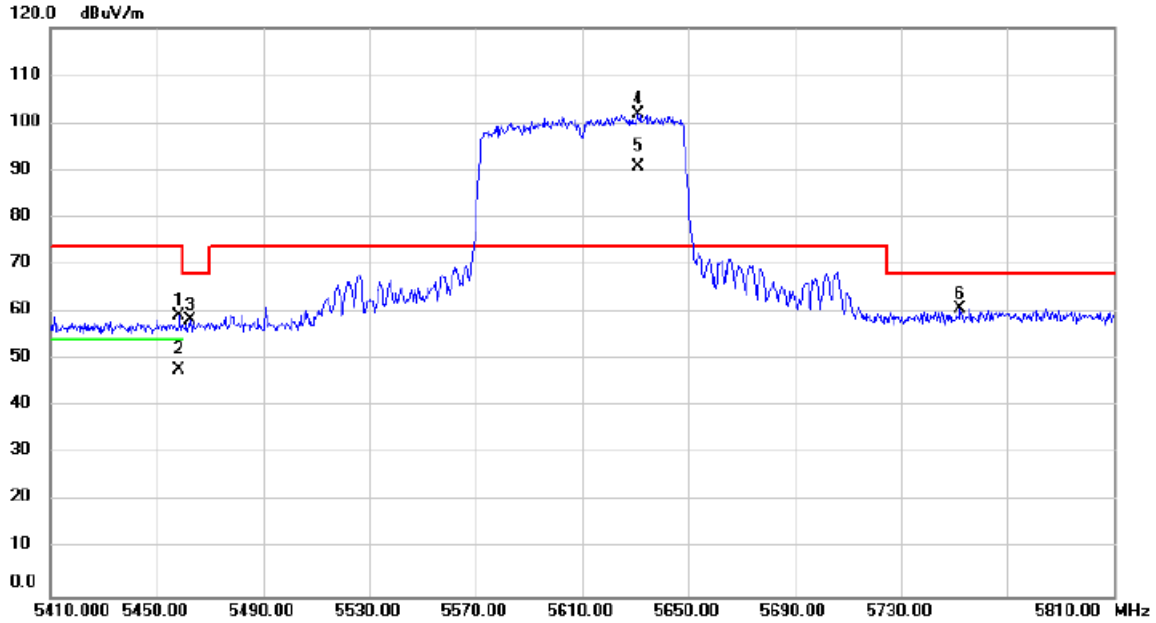
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2024/8/25
Test Frequency	5530MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5348.000	56.45	1.50	57.95	68.20	-10.25	peak	
2		5446.400	67.05	1.55	68.60	74.00	-5.40	peak	
3		5446.400	50.70	1.55	52.25	54.00	-1.75	AVG	
4		5461.600	64.33	1.56	65.89	68.20	-2.31	peak	
5	*	5542.800	100.56	1.71	102.27	74.00	28.27	peak	No Limit
6	X	5542.800	89.49	1.71	91.20	74.00	17.20	AVG	No Limit
7		5725.200	57.95	2.32	60.27	68.20	-7.93	peak	

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

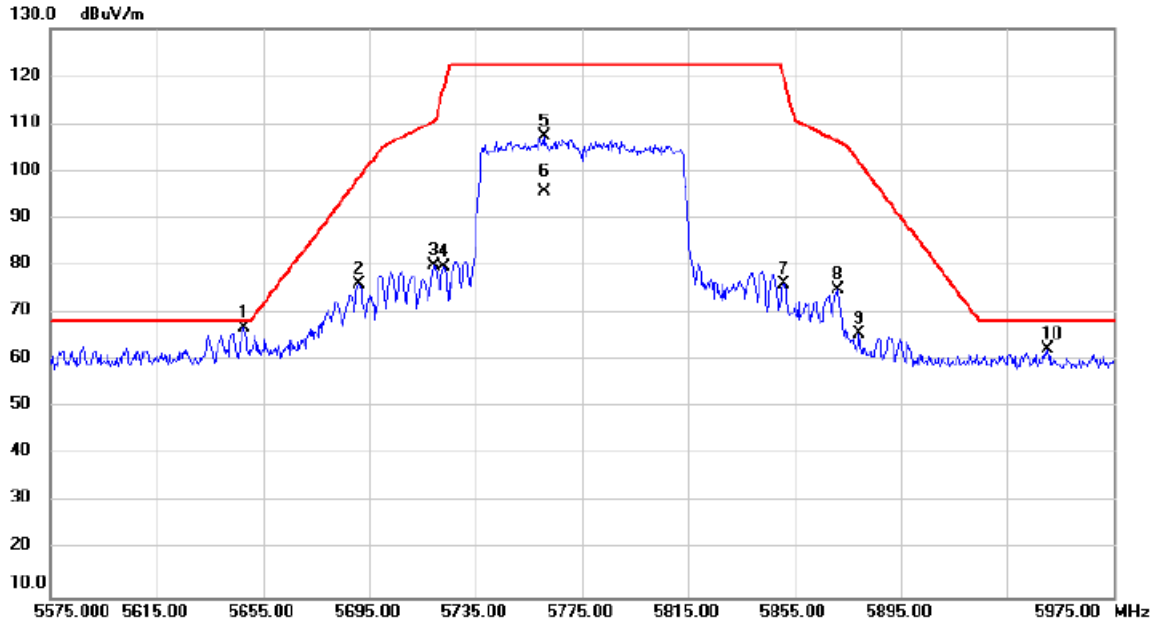
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2024/8/25
Test Frequency	5610MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5458.400	57.60	1.55	59.15	74.00	-14.85	peak	
2		5458.400	46.21	1.55	47.76	54.00	-6.24	AVG	
3		5462.400	56.67	1.56	58.23	68.20	-9.97	peak	
4	*	5630.800	99.90	2.02	101.92	74.00	27.92	peak	No Limit
5	X	5630.800	88.68	2.02	90.70	74.00	16.70	AVG	No Limit
6		5752.400	58.42	2.41	60.83	68.20	-7.37	peak	

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

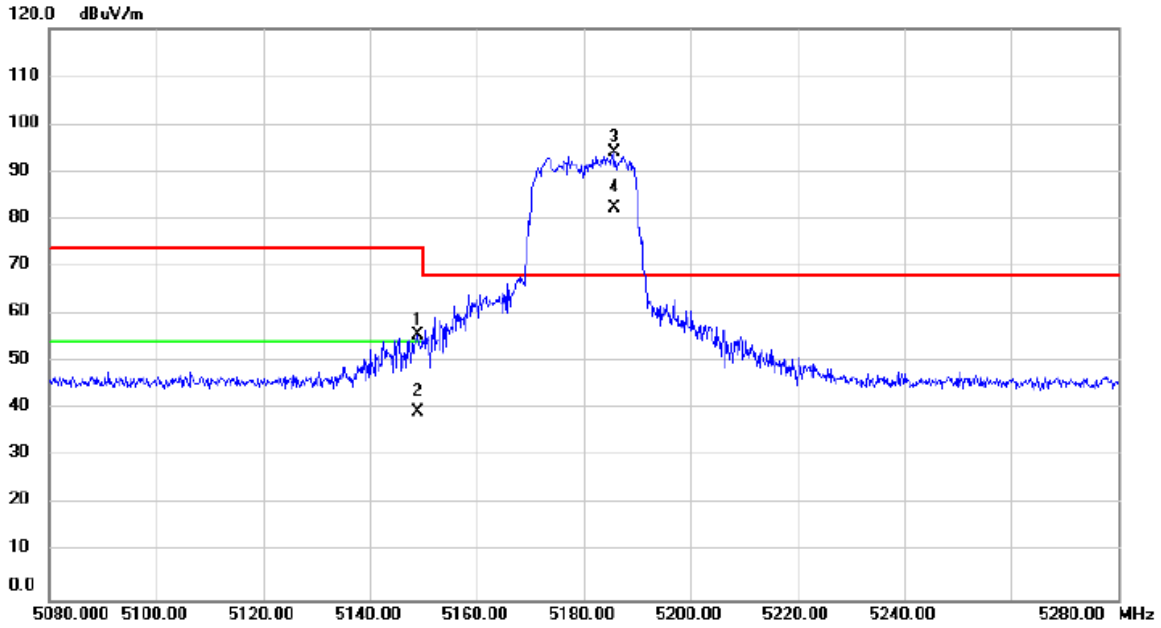
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2024/8/25
Test Frequency	5775MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5647.800	64.82	2.07	66.89	68.20	-1.31	peak	
2		5691.000	73.98	2.21	76.19	98.56	-22.37	peak	
3		5719.400	77.80	2.30	80.10	110.63	-30.53	peak	
4		5723.000	77.33	2.31	79.64	117.64	-38.00	peak	
5		5760.600	105.04	2.43	107.47	122.20	-14.73	peak	No Limit
6		5760.600	93.24	2.43	95.67	122.20	-26.53	AVG	No Limit
7		5851.000	73.54	2.73	76.27	119.92	-43.65	peak	
8		5871.000	72.04	2.80	74.84	106.32	-31.48	peak	
9		5879.400	62.84	2.82	65.66	101.93	-36.27	peak	
10		5950.200	59.15	3.06	62.21	68.20	-5.99	peak	

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

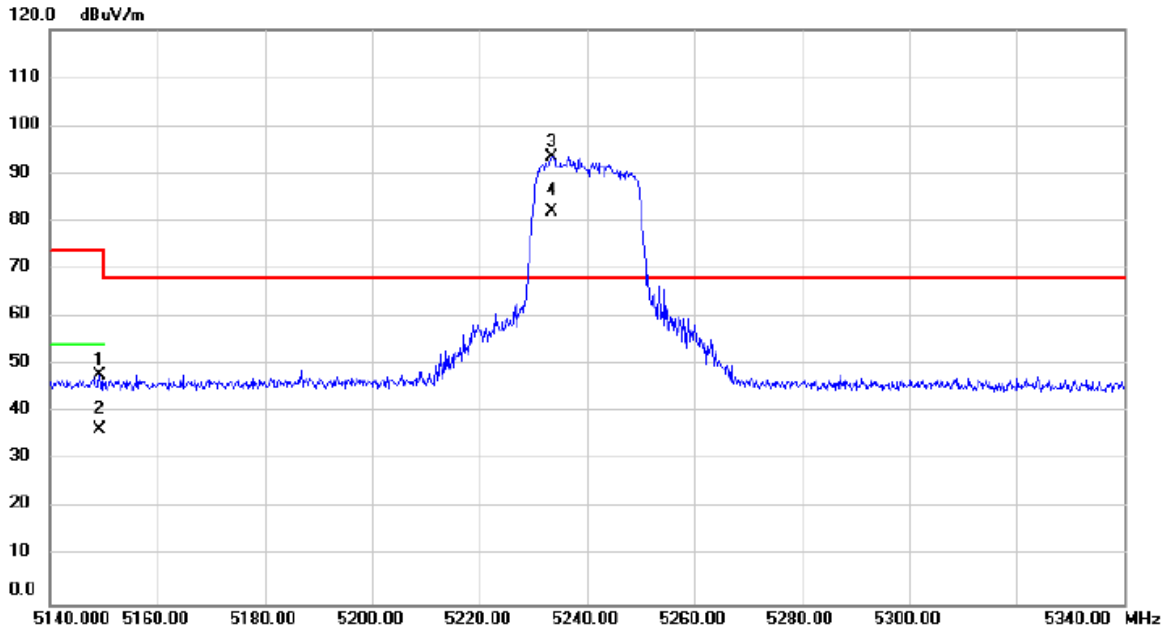
Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/8/26
Test Frequency	5180MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5148.800	54.27	1.37	55.64	74.00	-18.36	peak	
2		5148.800	38.19	1.37	39.56	54.00	-14.44	AVG	
3	*	5185.800	92.56	1.40	93.96	68.20	25.76	peak	No Limit
4	X	5185.800	81.04	1.40	82.44	68.20	14.24	AVG	No Limit

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

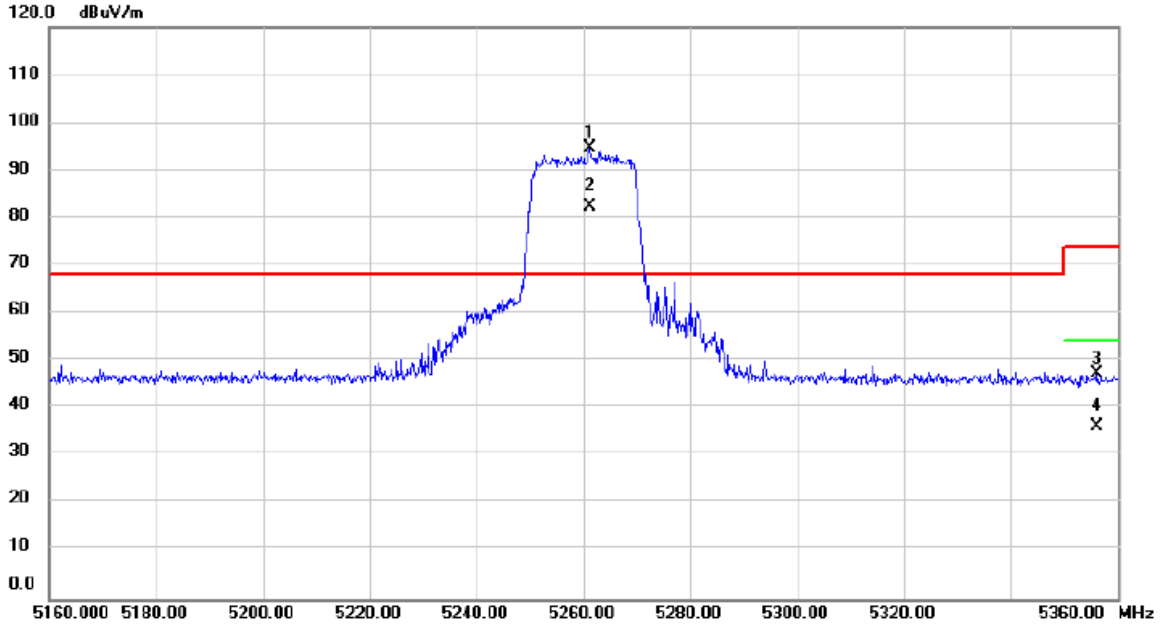
Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/8/26
Test Frequency	5240MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5149.200	46.50	1.37	47.87	74.00	-26.13	peak	
2		5149.200	35.22	1.37	36.59	54.00	-17.41	AVG	
3	*	5233.400	92.14	1.42	93.56	68.20	25.36	peak	No Limit
4	X	5233.400	80.78	1.42	82.20	68.20	14.00	AVG	No Limit

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

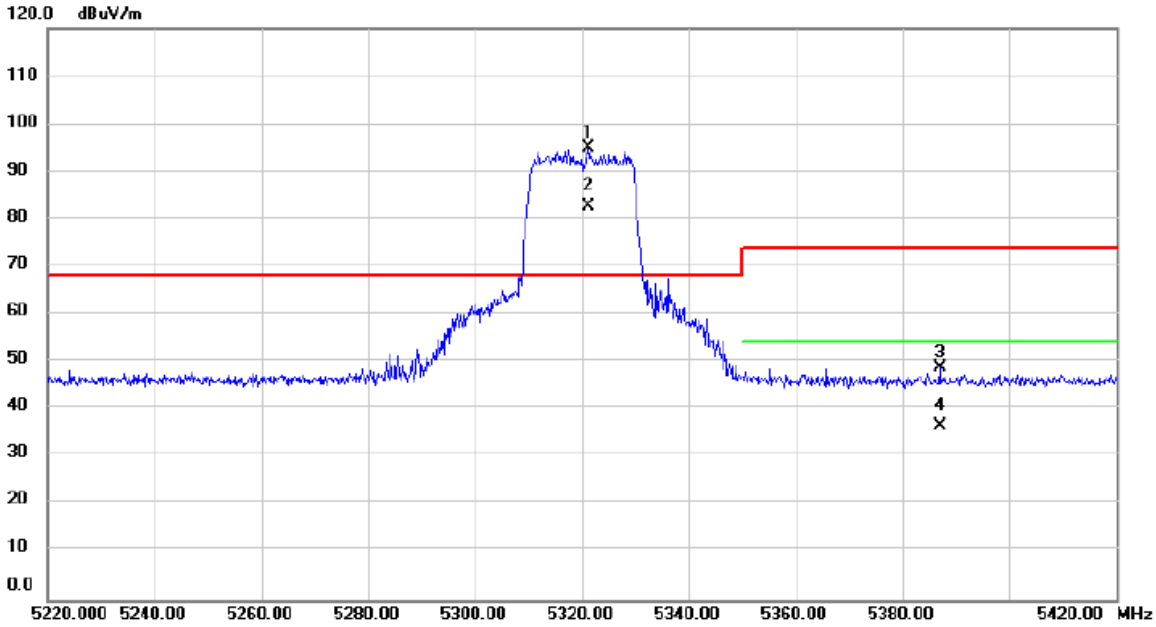
Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/8/26
Test Frequency	5260MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5261.200	93.17	1.44	94.61	68.20	26.41	peak	No Limit
2	X	5261.200	81.06	1.44	82.50	68.20	14.30	AVG	No Limit
3		5356.200	45.75	1.50	47.25	74.00	-26.75	peak	
4		5356.200	34.71	1.50	36.21	54.00	-17.79	AVG	

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

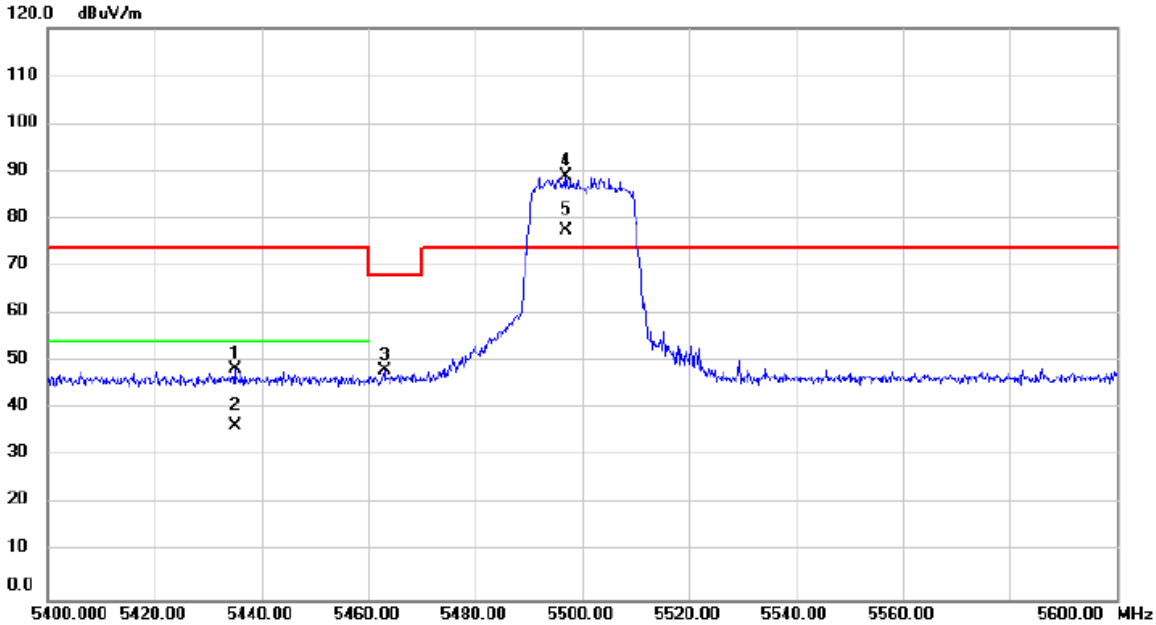
Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/8/26
Test Frequency	5320MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5321.200	93.44	1.48	94.92	68.20	26.72	peak	No Limit
2	X	5321.200	81.30	1.48	82.78	68.20	14.58	AVG	No Limit
3		5387.000	47.38	1.51	48.89	74.00	-25.11	peak	
4		5387.000	35.06	1.51	36.57	54.00	-17.43	AVG	

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

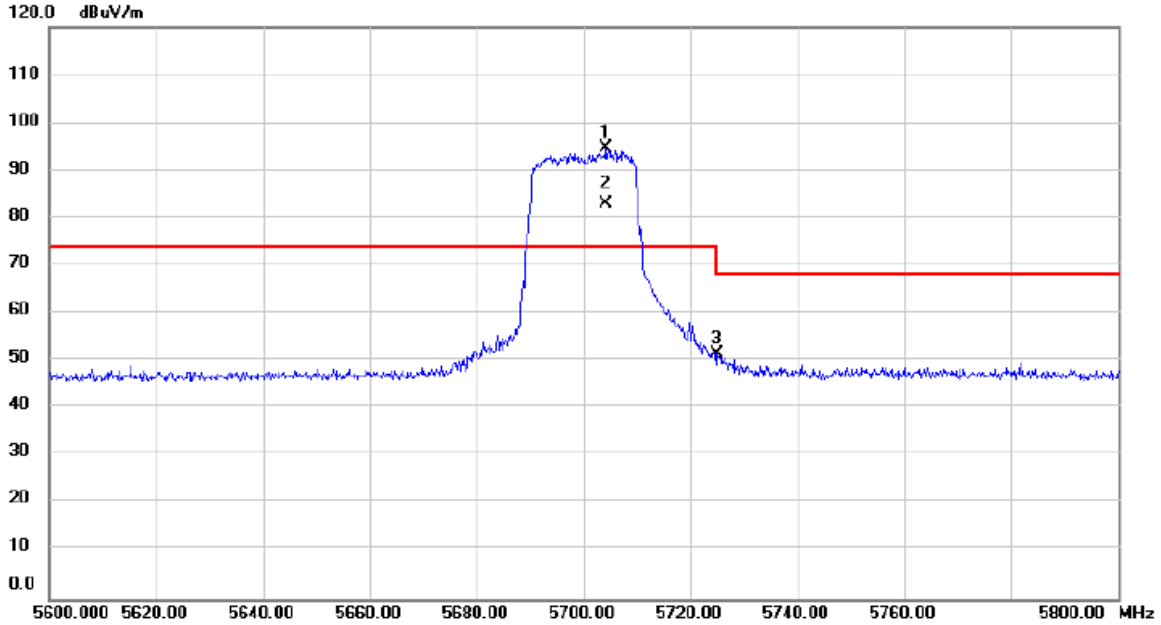
Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/8/26
Test Frequency	5500MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5435.000	47.04	1.54	48.58	74.00	-25.42	peak	
2		5435.000	34.89	1.54	36.43	54.00	-17.57	AVG	
3		5463.000	46.52	1.56	48.08	68.20	-20.12	peak	
4	*	5497.000	87.52	1.58	89.10	74.00	15.10	peak	No Limit
5	X	5497.000	75.92	1.58	77.50	74.00	3.50	AVG	No Limit

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

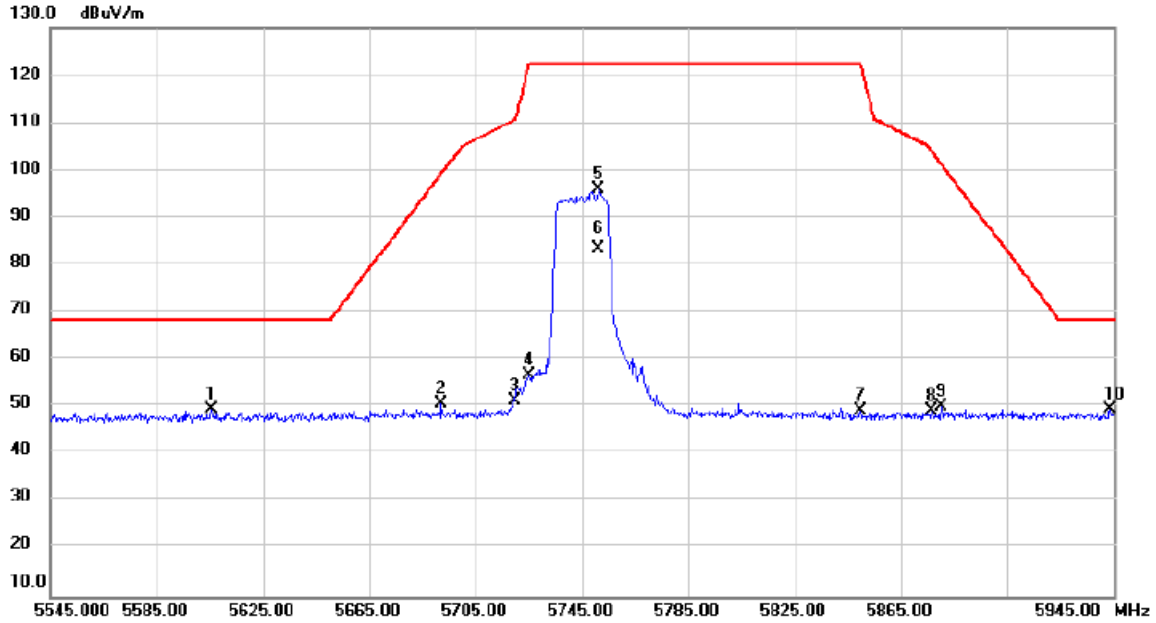
Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/8/26
Test Frequency	5700MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5704.200	92.38	2.25	94.63	74.00	20.63	peak	No Limit
2	X	5704.200	80.60	2.25	82.85	74.00	8.85	AVG	No Limit
3		5725.000	49.11	2.31	51.42	68.20	-16.78	peak	

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

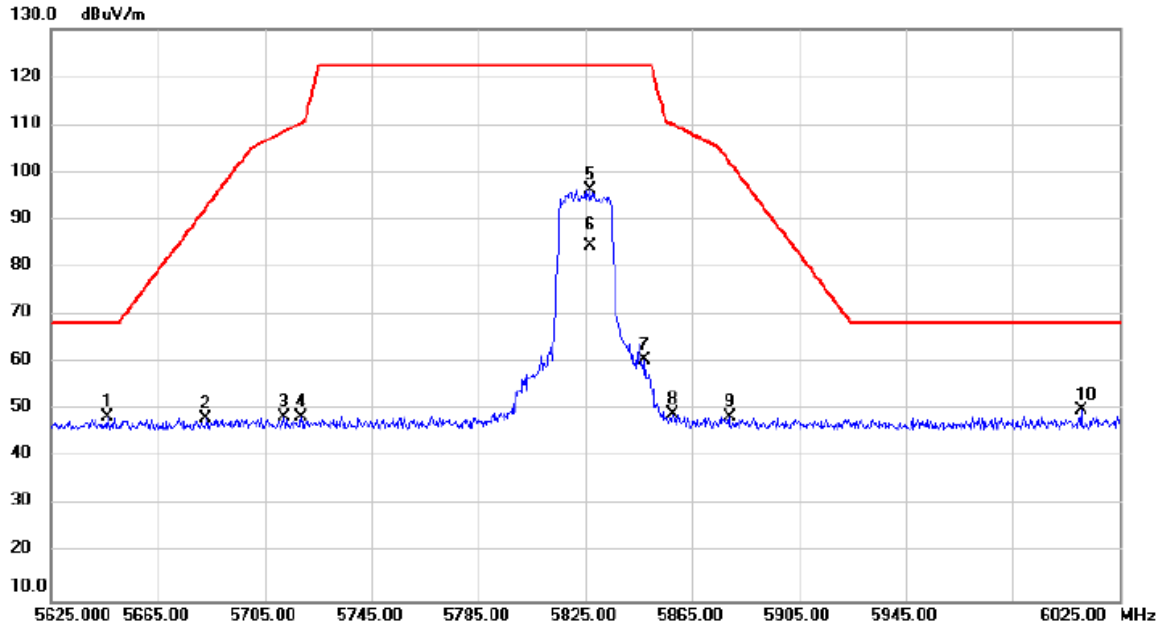
Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/8/27
Test Frequency	5745MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5605.400	47.41	1.92	49.33	68.20	-18.87	peak	
2		5692.200	48.51	2.21	50.72	99.45	-48.73	peak	
3		5719.800	49.04	2.30	51.34	110.74	-59.40	peak	
4		5725.000	54.32	2.31	56.63	122.20	-65.57	peak	
5		5751.400	93.55	2.40	95.95	122.20	-26.25	peak	No Limit
6		5751.400	80.87	2.40	83.27	122.20	-38.93	AVG	No Limit
7		5849.800	46.40	2.72	49.12	122.20	-73.08	peak	
8		5876.600	46.25	2.82	49.07	104.01	-54.94	peak	
9		5880.200	47.13	2.84	49.97	101.34	-51.37	peak	
10	*	5943.800	46.34	3.04	49.38	68.20	-18.82	peak	

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

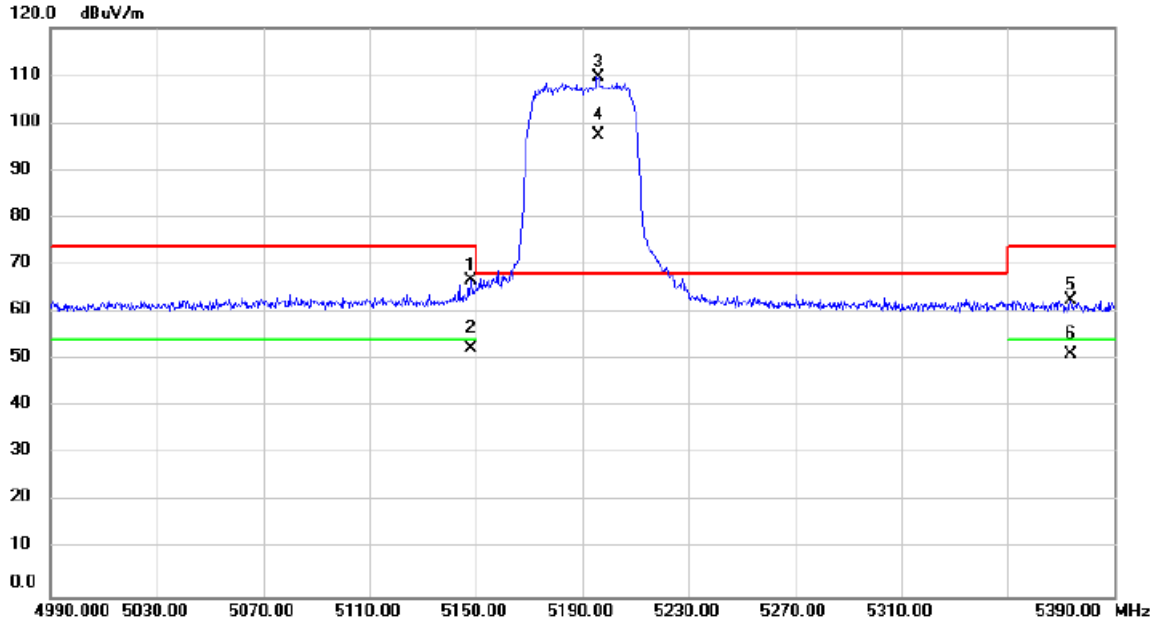
Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/8/27
Test Frequency	5825MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5645.800	46.40	2.06	48.46	68.20	-19.74	peak	
2		5683.000	46.09	2.18	48.27	92.66	-44.39	peak	
3		5712.200	46.29	2.28	48.57	108.62	-60.05	peak	
4		5718.600	46.23	2.30	48.53	110.41	-61.88	peak	
5		5827.000	93.71	2.65	96.36	122.20	-25.84	peak	No Limit
6		5827.000	82.01	2.65	84.66	122.20	-37.54	AVG	No Limit
7		5847.400	57.81	2.71	60.52	122.20	-61.68	peak	
8		5857.800	46.36	2.75	49.11	110.01	-60.90	peak	
9		5879.000	45.74	2.82	48.56	102.23	-53.67	peak	
10	*	6010.600	46.67	3.27	49.94	68.20	-18.26	peak	

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

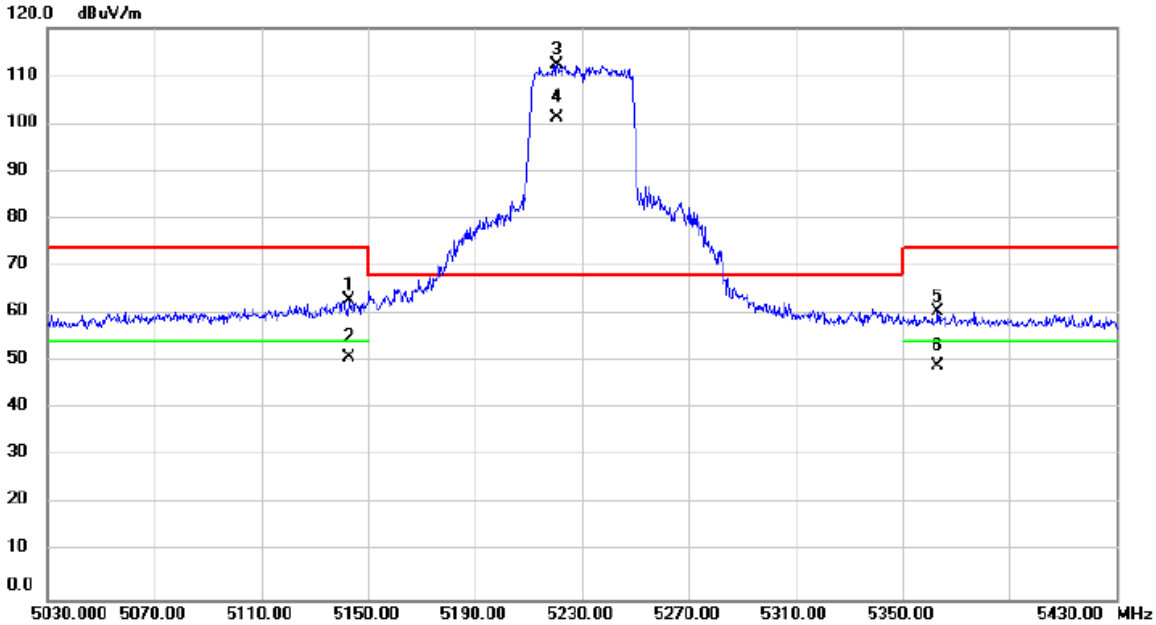
Test Mode	IEEE 802.11ax (HE40)	Test Date	2024/8/27
Test Frequency	5190MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5148.000	65.43	1.37	66.80	74.00	-7.20	peak	
2		5148.000	51.13	1.37	52.50	54.00	-1.50	AVG	
3	*	5196.000	108.18	1.40	109.58	68.20	41.38	peak	No Limit
4	X	5196.000	96.04	1.40	97.44	68.20	29.24	AVG	No Limit
5		5373.600	61.10	1.51	62.61	74.00	-11.39	peak	
6		5373.600	49.51	1.51	51.02	54.00	-2.98	AVG	

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

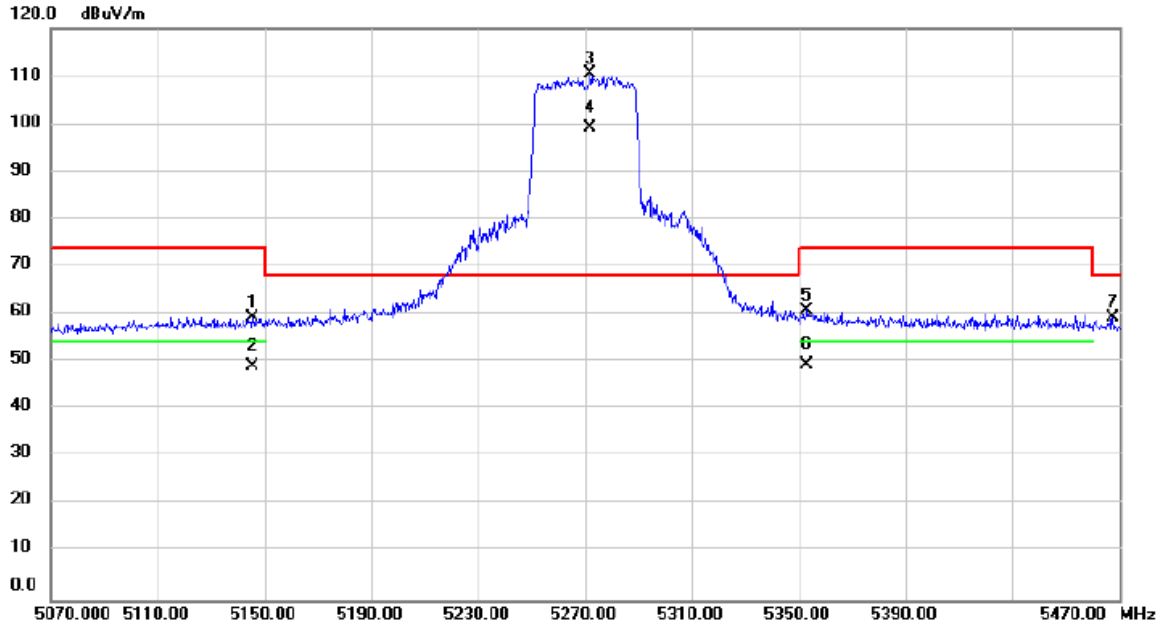
Test Mode	IEEE 802.11ax (HE40)	Test Date	2024/8/27
Test Frequency	5230MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5142.800	61.55	1.37	62.92	74.00	-11.08	peak	
2		5142.800	49.63	1.37	51.00	54.00	-3.00	AVG	
3	*	5220.800	110.84	1.42	112.26	68.20	44.06	peak	No Limit
4	X	5220.800	99.89	1.42	101.31	68.20	33.11	AVG	No Limit
5		5363.200	58.94	1.51	60.45	74.00	-13.55	peak	
6		5363.200	47.61	1.51	49.12	54.00	-4.88	AVG	

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

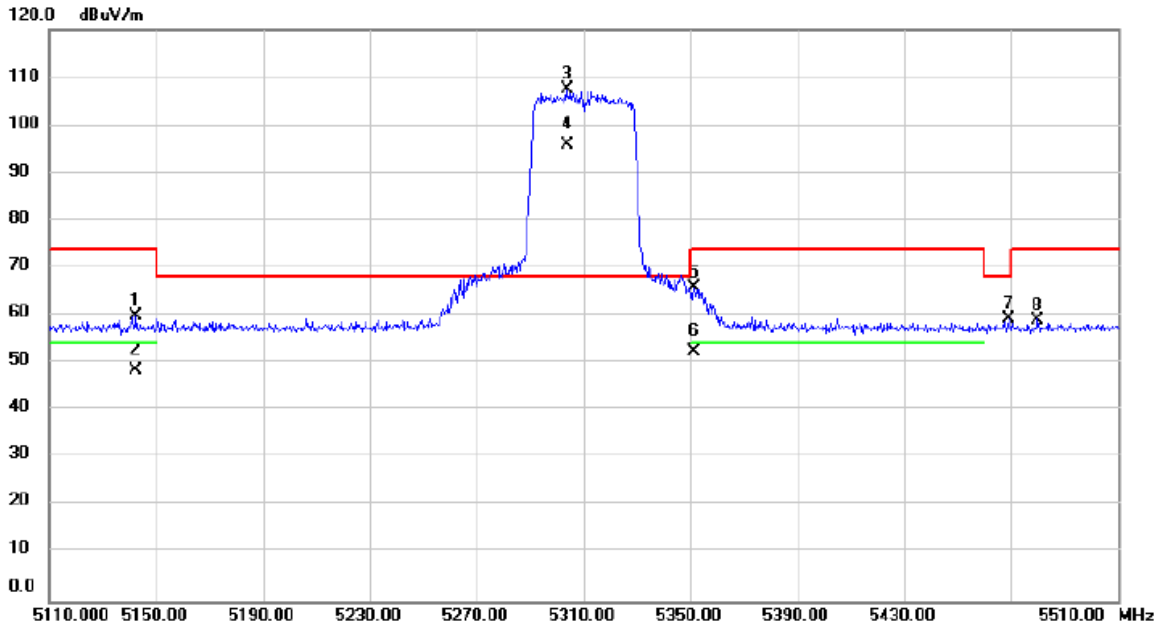
Test Mode	IEEE 802.11ax (HE40)	Test Date	2024/8/27
Test Frequency	5270MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5145.600	58.03	1.37	59.40	74.00	-14.60	peak	
2		5145.600	47.74	1.37	49.11	54.00	-4.89	AVG	
3	*	5272.000	109.08	1.45	110.53	68.20	42.33	peak	No Limit
4	X	5272.000	97.74	1.45	99.19	68.20	30.99	AVG	No Limit
5		5353.200	59.40	1.50	60.90	74.00	-13.10	peak	
6		5353.200	47.94	1.50	49.44	54.00	-4.56	AVG	
7		5467.600	57.83	1.56	59.39	68.20	-8.81	peak	

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

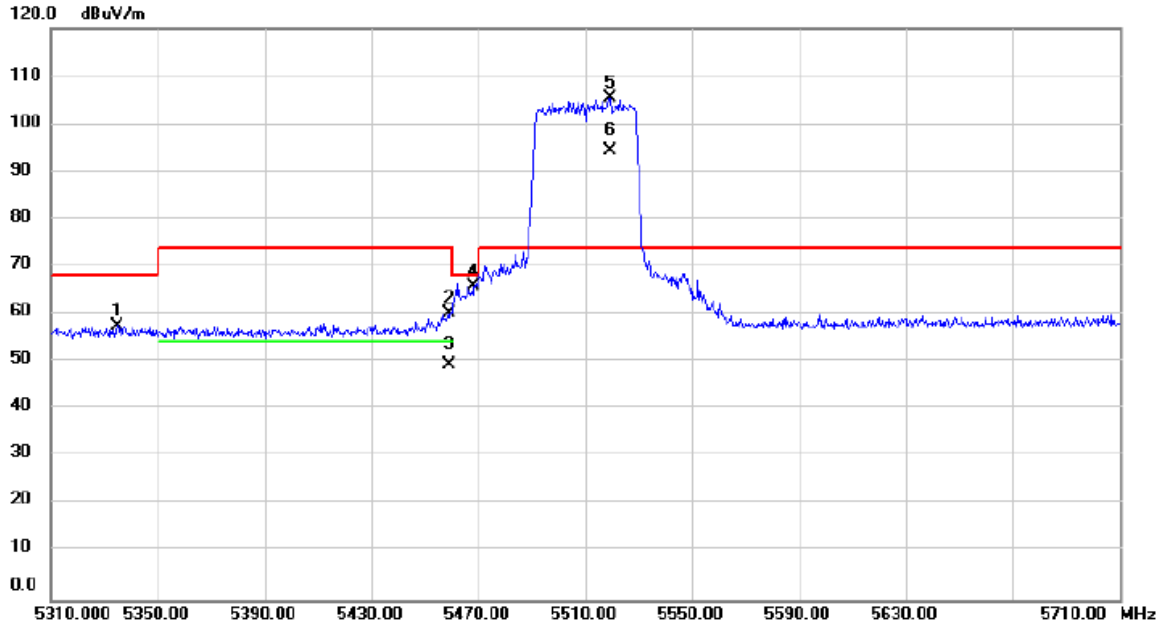
Test Mode	IEEE 802.11ax (HE40)	Test Date	2024/8/27
Test Frequency	5310MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5142.400	58.45	1.37	59.82	74.00	-14.18	peak	
2		5142.400	47.03	1.37	48.40	54.00	-5.60	AVG	
3	*	5303.600	105.95	1.47	107.42	68.20	39.22	peak	No Limit
4	X	5303.600	94.46	1.47	95.93	68.20	27.73	AVG	No Limit
5		5351.200	64.40	1.50	65.90	74.00	-8.10	peak	
6		5351.200	50.74	1.50	52.24	54.00	-1.76	AVG	
7		5469.200	57.78	1.56	59.34	68.20	-8.86	peak	
8		5480.000	57.53	1.57	59.10	74.00	-14.90	peak	

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

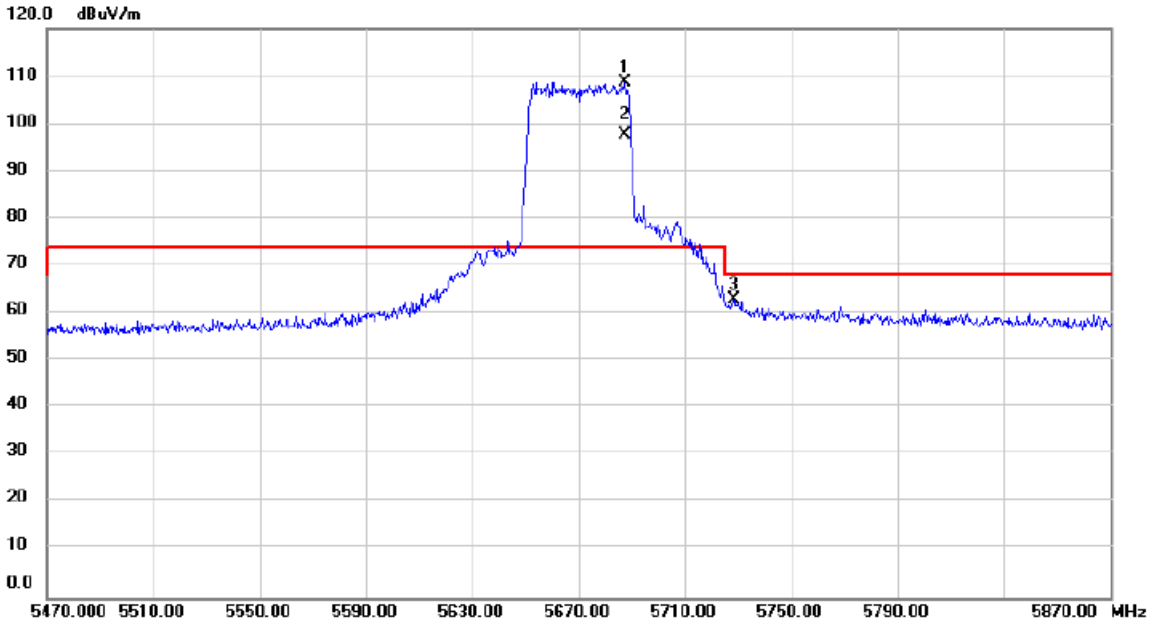
Test Mode	IEEE 802.11ax (HE40)	Test Date	2024/8/27
Test Frequency	5510MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5334.800	56.11	1.49	57.60	68.20	-10.60	peak	
2		5458.800	58.70	1.55	60.25	74.00	-13.75	peak	
3		5458.800	47.93	1.55	49.48	54.00	-4.52	AVG	
4		5468.400	64.43	1.56	65.99	68.20	-2.21	peak	
5	*	5519.200	103.69	1.64	105.33	74.00	31.33	peak	No Limit
6	X	5519.200	92.72	1.64	94.36	74.00	20.36	AVG	No Limit

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

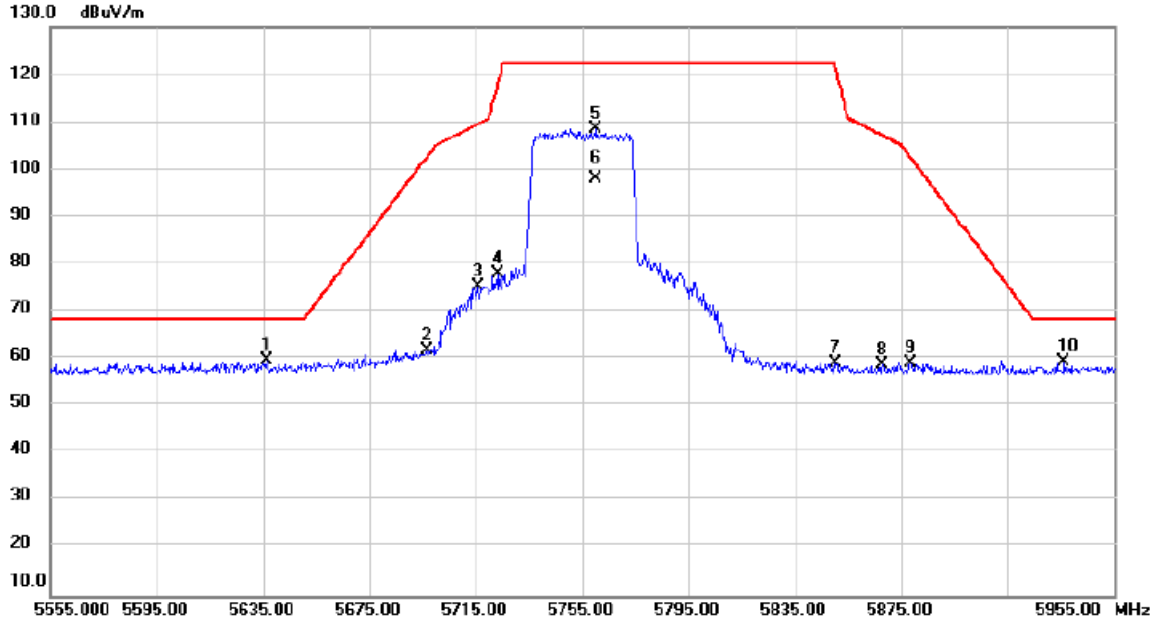
Test Mode	IEEE 802.11ax (HE40)	Test Date	2024/8/27
Test Frequency	5670MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5687.200	106.61	2.19	108.80	74.00	34.80	peak	No Limit
2	X	5687.200	95.44	2.19	97.63	74.00	23.63	AVG	No Limit
3		5728.400	60.65	2.33	62.98	68.20	-5.22	peak	

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

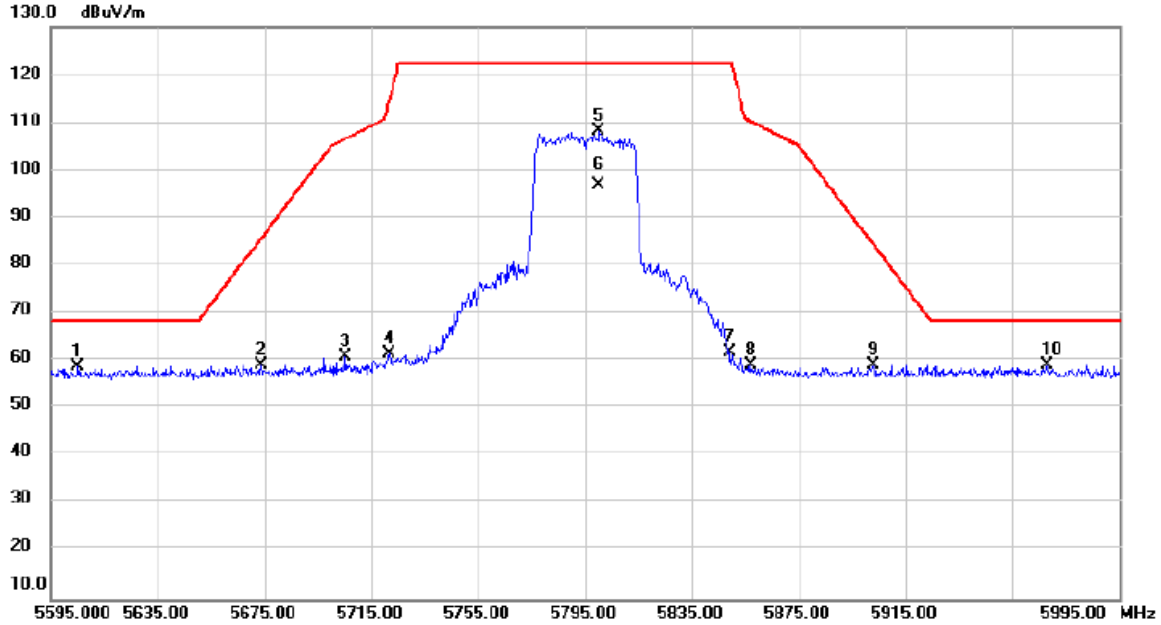
Test Mode	IEEE 802.11ax (HE40)	Test Date	2024/8/27
Test Frequency	5755MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5636.200	57.73	2.03	59.76	68.20	-8.44	peak	
2		5696.600	59.49	2.22	61.71	102.69	-40.98	peak	
3		5715.800	73.03	2.28	75.31	109.63	-34.32	peak	
4		5723.400	75.52	2.31	77.83	118.55	-40.72	peak	
5		5760.200	106.20	2.43	108.63	122.20	-13.57	peak	No Limit
6		5760.200	95.66	2.43	98.09	122.20	-24.11	AVG	No Limit
7		5850.200	56.23	2.72	58.95	121.74	-62.79	peak	
8		5867.800	55.87	2.78	58.65	107.21	-48.56	peak	
9		5878.600	56.19	2.82	59.01	102.53	-43.52	peak	
10		5936.200	56.24	3.01	59.25	68.20	-8.95	peak	

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

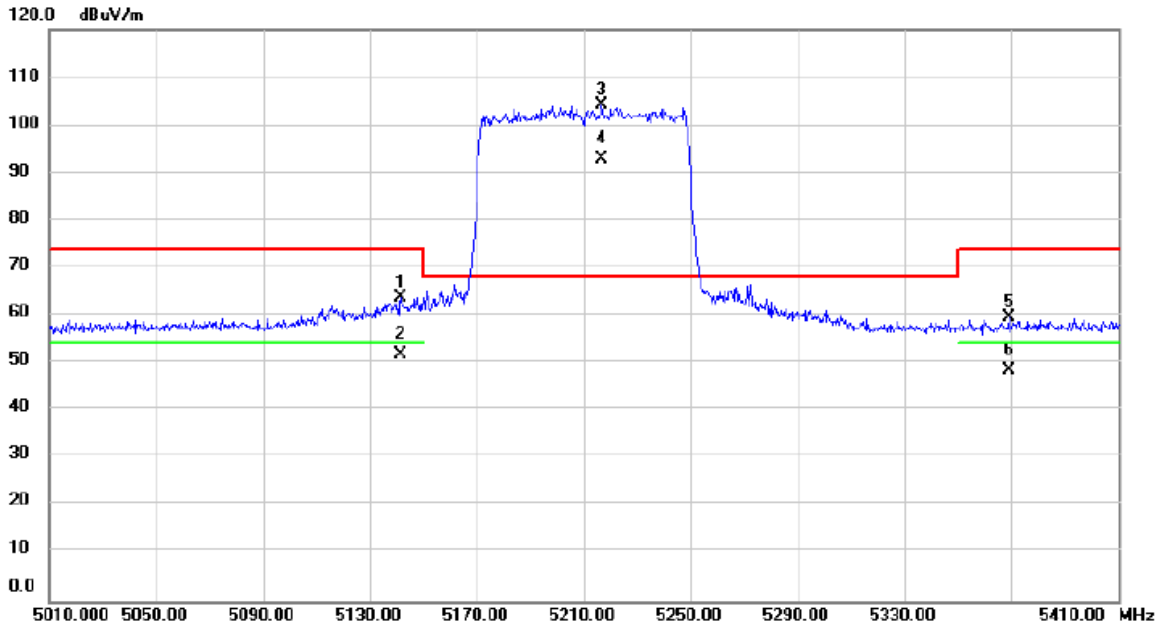
Test Mode	IEEE 802.11ax (HE40)	Test Date	2024/8/27
Test Frequency	5795MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5605.000	56.95	1.92	58.87	68.20	-9.33	peak	
2		5673.800	56.93	2.15	59.08	85.85	-26.77	peak	
3		5705.400	58.71	2.25	60.96	106.71	-45.75	peak	
4		5721.800	59.00	2.31	61.31	114.91	-53.60	peak	
5		5800.200	105.64	2.56	108.20	122.20	-14.00	peak	No Limit
6		5800.200	94.24	2.56	96.80	122.20	-25.40	AVG	No Limit
7		5849.000	59.09	2.72	61.81	122.20	-60.39	peak	
8		5857.000	56.16	2.75	58.91	110.24	-51.33	peak	
9		5903.000	56.11	2.91	59.02	84.44	-25.42	peak	
10	*	5967.800	55.98	3.12	59.10	68.20	-9.10	peak	

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

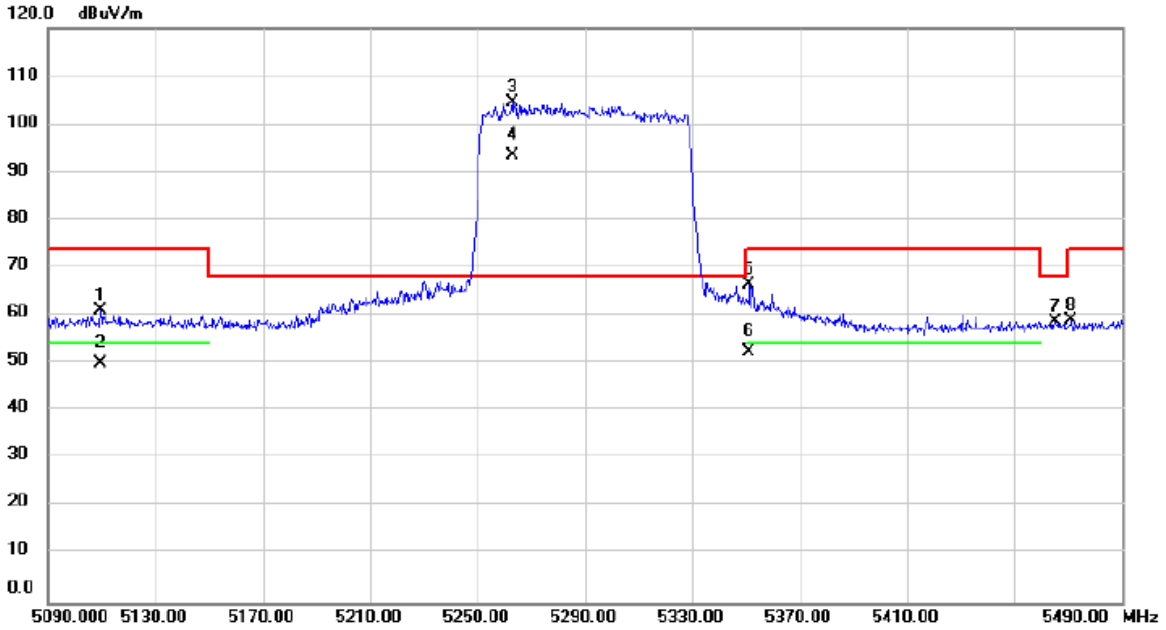
Test Mode	IEEE 802.11ax (HE80)	Test Date	2024/8/27
Test Frequency	5210MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5141.600	62.37	1.37	63.74	74.00	-10.26	peak	
2		5141.600	50.25	1.37	51.62	54.00	-2.38	AVG	
3	*	5216.800	102.84	1.41	104.25	68.20	36.05	peak	No Limit
4	X	5216.800	91.56	1.41	92.97	68.20	24.77	AVG	No Limit
5		5369.200	58.03	1.51	59.54	74.00	-14.46	peak	
6		5369.200	46.88	1.51	48.39	54.00	-5.61	AVG	

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

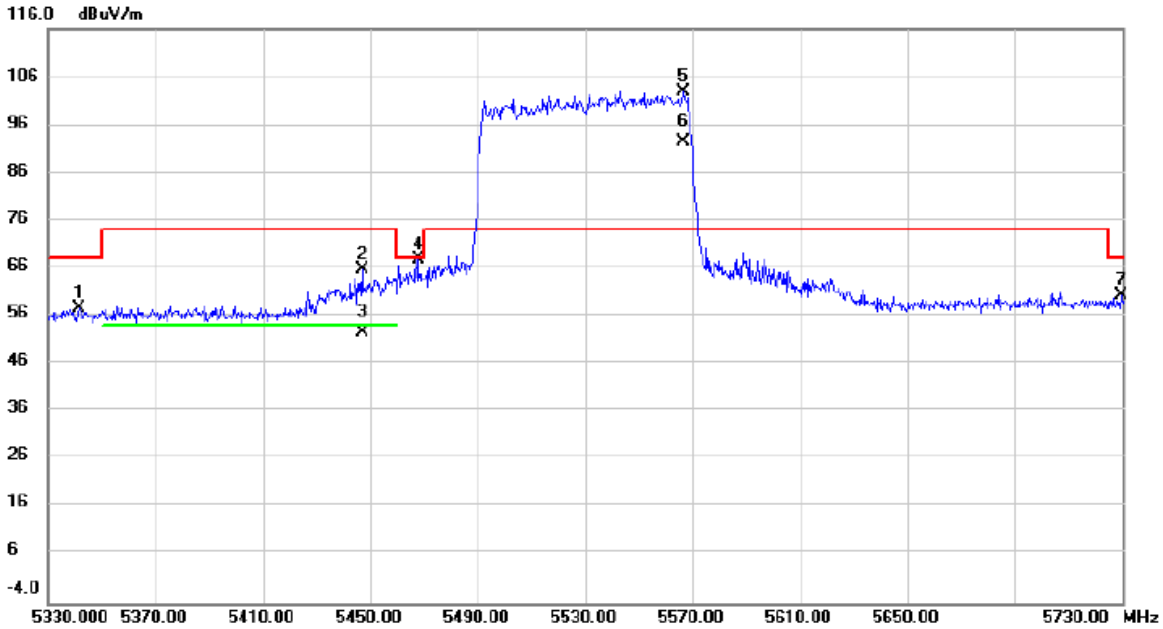
Test Mode	IEEE 802.11ax (HE80)	Test Date	2024/8/27
Test Frequency	5290MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5109.600	59.60	1.36	60.96	74.00	-13.04	peak	
2		5109.600	48.48	1.36	49.84	54.00	-4.16	AVG	
3	*	5262.800	103.13	1.44	104.57	68.20	36.37	peak	No Limit
4	X	5262.800	92.13	1.44	93.57	68.20	25.37	AVG	No Limit
5		5351.200	64.94	1.50	66.44	74.00	-7.56	peak	
6		5351.200	50.77	1.50	52.27	54.00	-1.73	AVG	
7		5465.200	57.11	1.56	58.67	68.20	-9.53	peak	
8		5471.200	57.28	1.56	58.84	74.00	-15.16	peak	

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

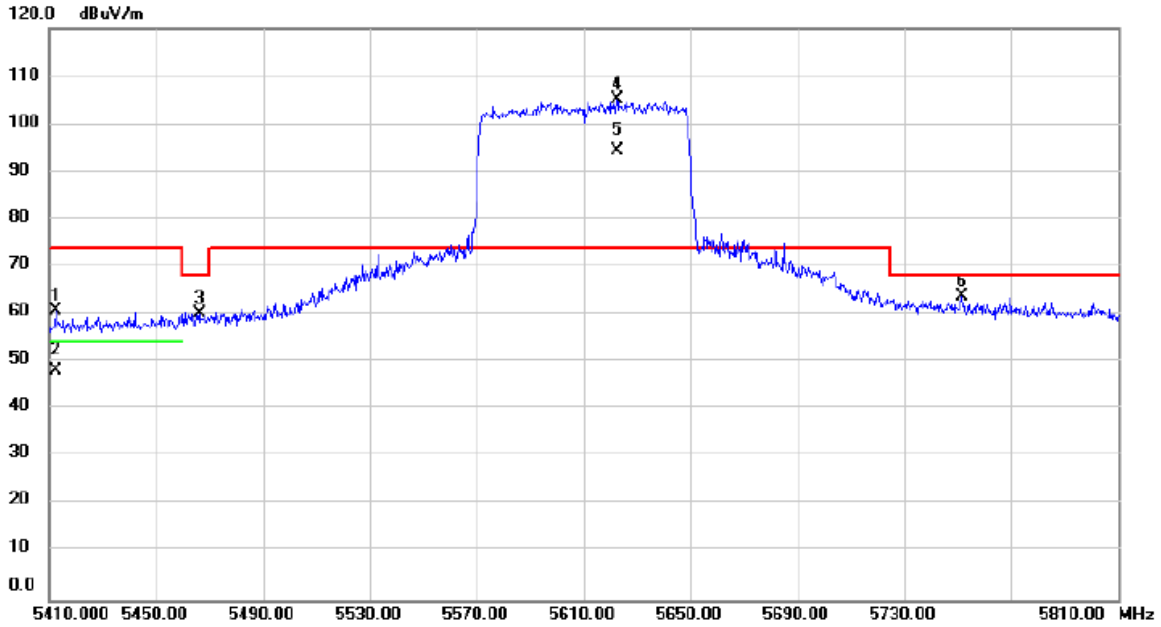
Test Mode	IEEE 802.11ax (HE80)	Test Date	2024/8/27
Test Frequency	5530MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5341.600	56.22	1.49	57.71	68.20	-10.49	peak	
2		5446.800	64.11	1.55	65.66	74.00	-8.34	peak	
3		5446.800	51.06	1.55	52.61	54.00	-1.39	AVG	
4		5467.600	66.34	1.56	67.90	68.20	-0.30	peak	
5	*	5566.400	101.23	1.80	103.03	74.00	29.03	peak	No Limit
6	X	5566.400	90.63	1.80	92.43	74.00	18.43	AVG	No Limit
7		5729.600	58.07	2.34	60.41	68.20	-7.79	peak	

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

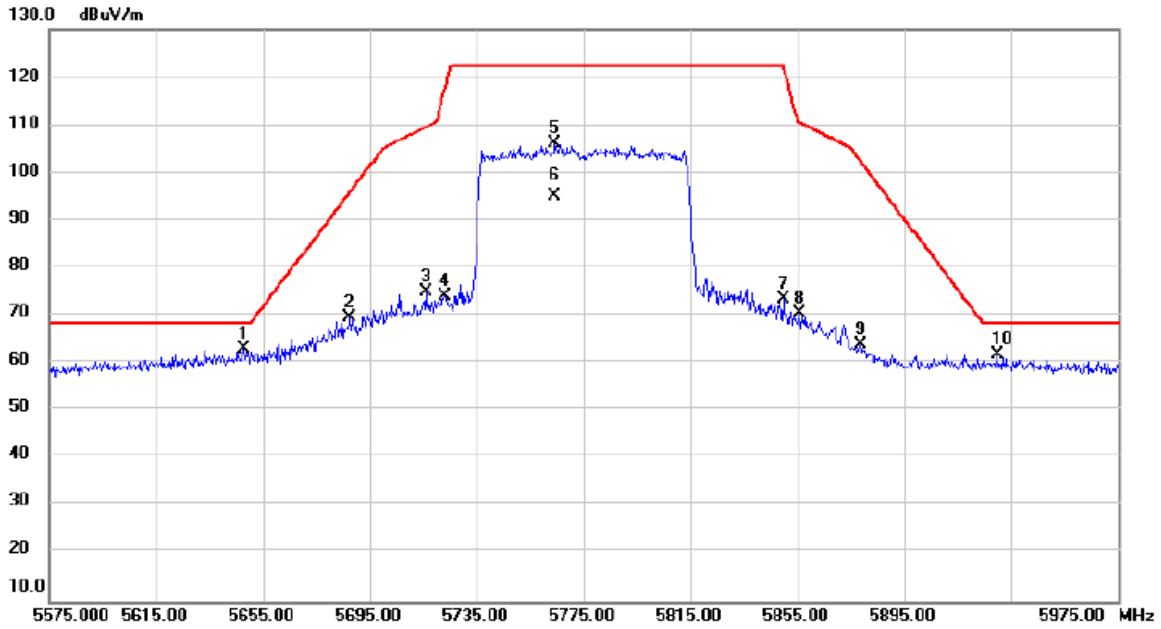
Test Mode	IEEE 802.11ax (HE80)	Test Date	2024/8/27
Test Frequency	5610MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5412.400	59.12	1.53	60.65	74.00	-13.35	peak	
2		5412.400	46.76	1.53	48.29	54.00	-5.71	AVG	
3		5466.000	58.67	1.56	60.23	68.20	-7.97	peak	
4	*	5622.400	103.11	1.98	105.09	74.00	31.09	peak	No Limit
5	X	5622.400	92.48	1.98	94.46	74.00	20.46	AVG	No Limit
6		5751.600	61.27	2.40	63.67	68.20	-4.53	peak	

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

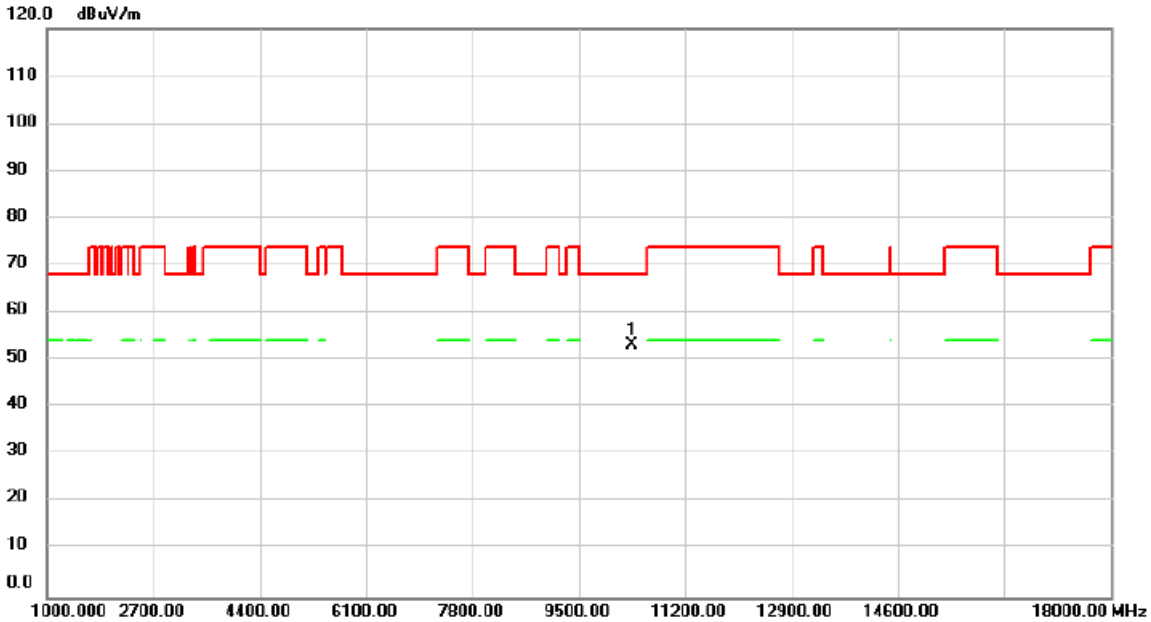
Test Mode	IEEE 802.11ax (HE80)	Test Date	2024/8/27
Test Frequency	5775Hz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5647.800	60.80	2.07	62.87	68.20	-5.33	peak	
2		5687.400	67.24	2.19	69.43	95.91	-26.48	peak	
3		5715.800	72.67	2.28	74.95	109.63	-34.68	peak	
4		5723.000	71.69	2.31	74.00	117.64	-43.64	peak	
5		5764.200	103.84	2.44	106.28	122.20	-15.92	peak	No Limit
6		5764.200	92.61	2.44	95.05	122.20	-27.15	AVG	No Limit
7		5849.800	70.72	2.72	73.44	122.20	-48.76	peak	
8		5855.800	67.63	2.74	70.37	110.58	-40.21	peak	
9		5878.600	61.16	2.82	63.98	102.53	-38.55	peak	
10		5929.800	58.79	3.00	61.79	68.20	-6.41	peak	

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

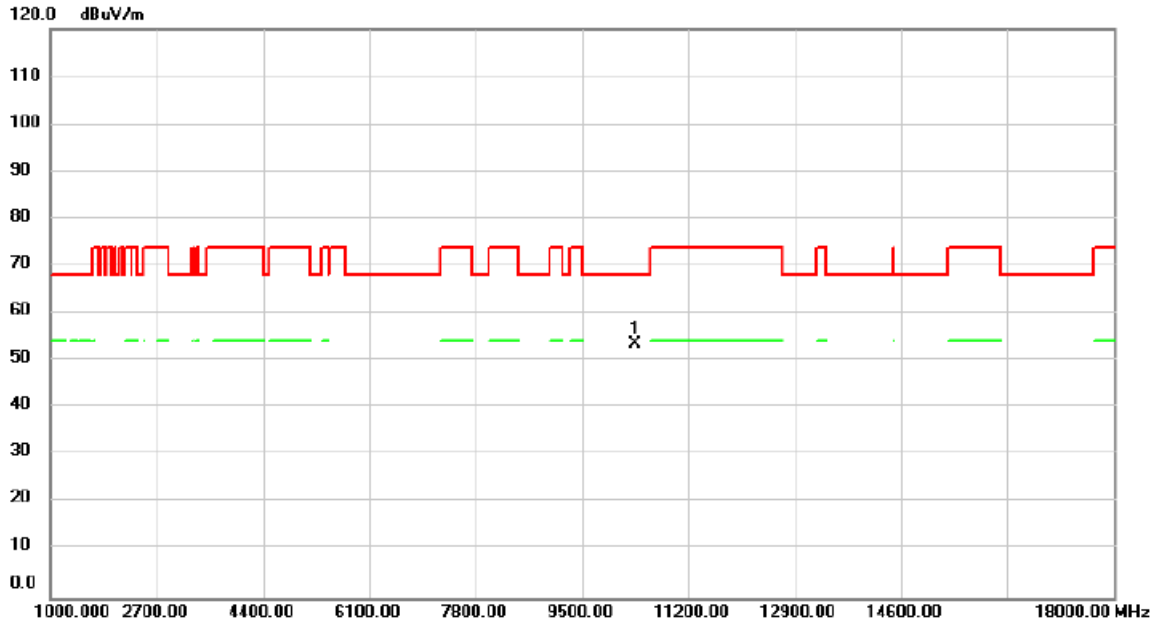
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5180MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	46.58	6.76	53.34	68.20	-14.86	peak	

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

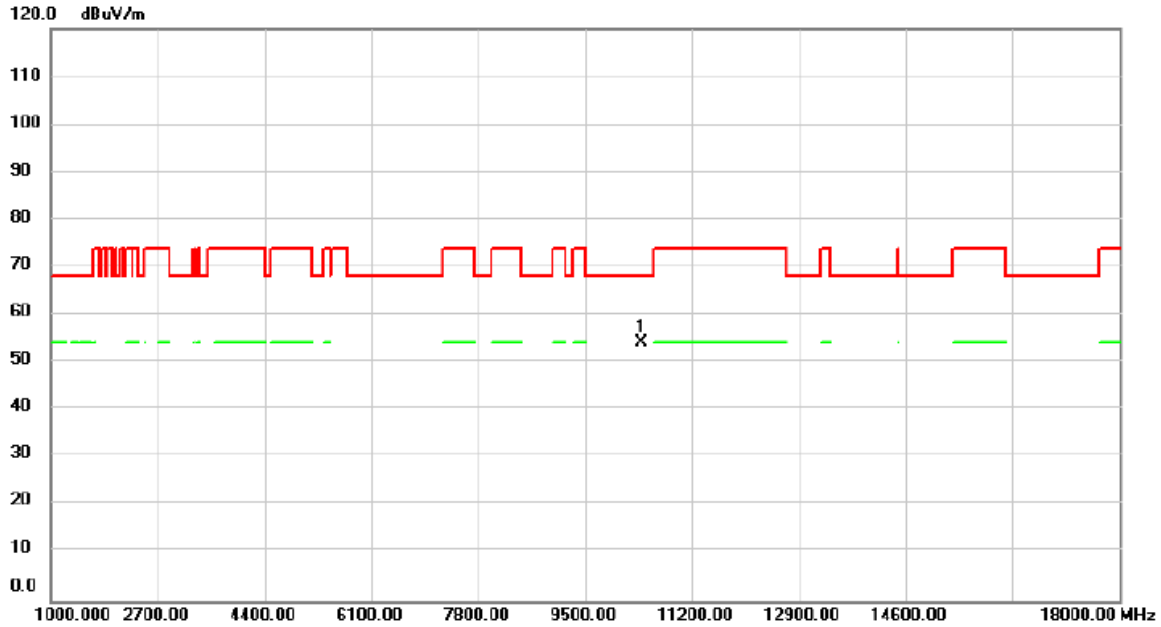
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5180MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	46.75	6.76	53.51	68.20	-14.69	peak	

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

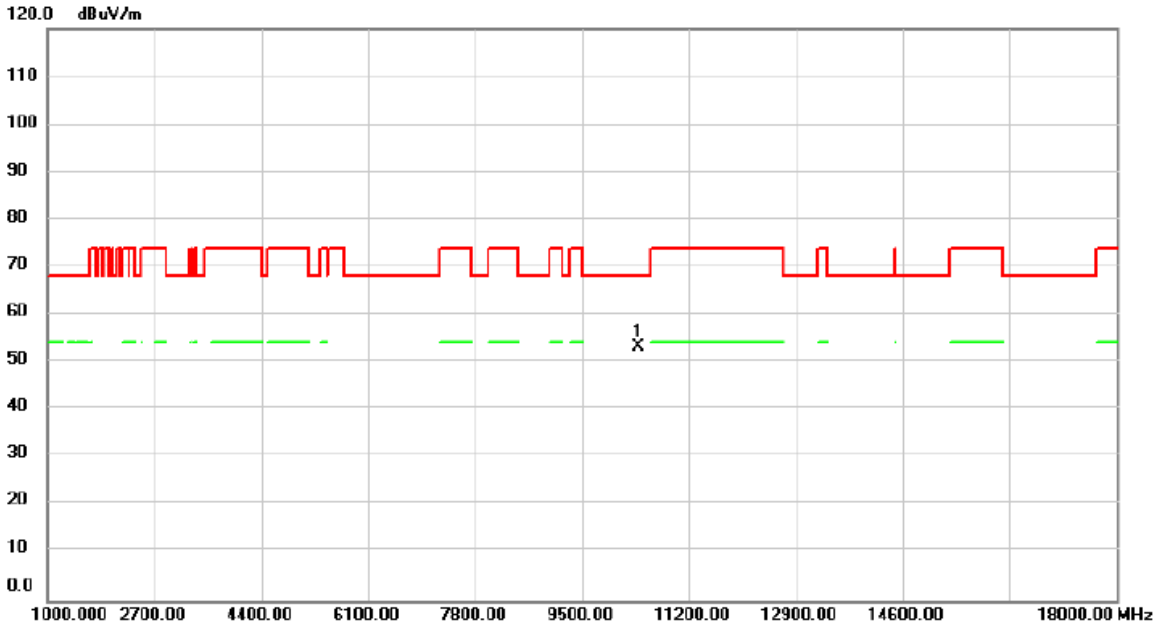
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5200MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	47.46	6.78	54.24	68.20	-13.96	peak	

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

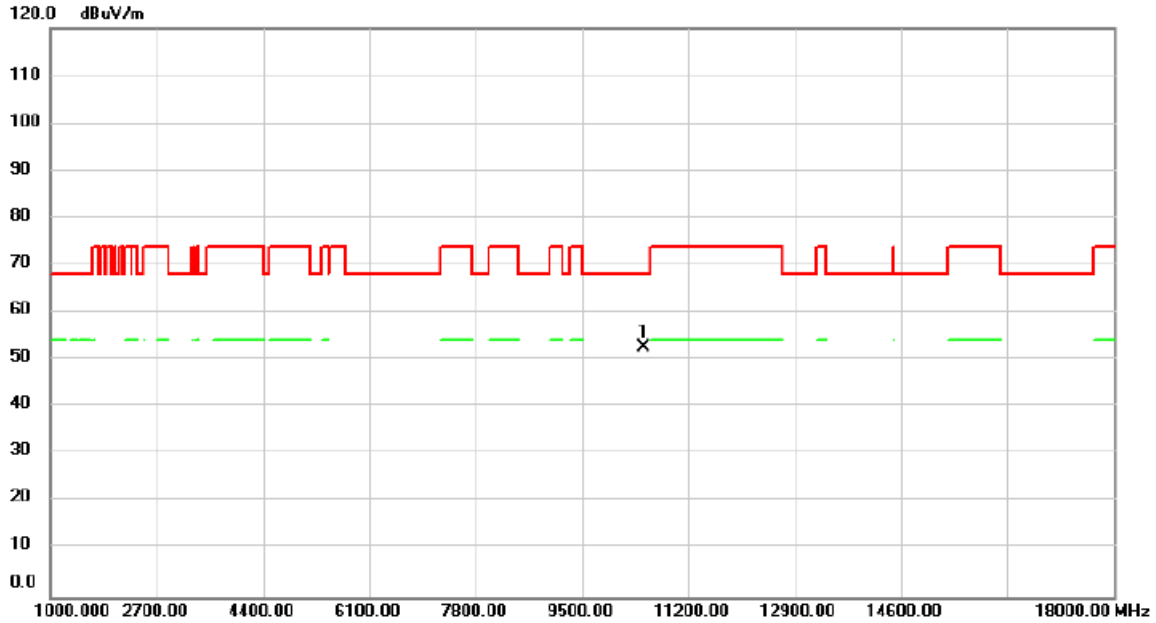
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5200MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	46.62	6.78	53.40	68.20	-14.80	peak	

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

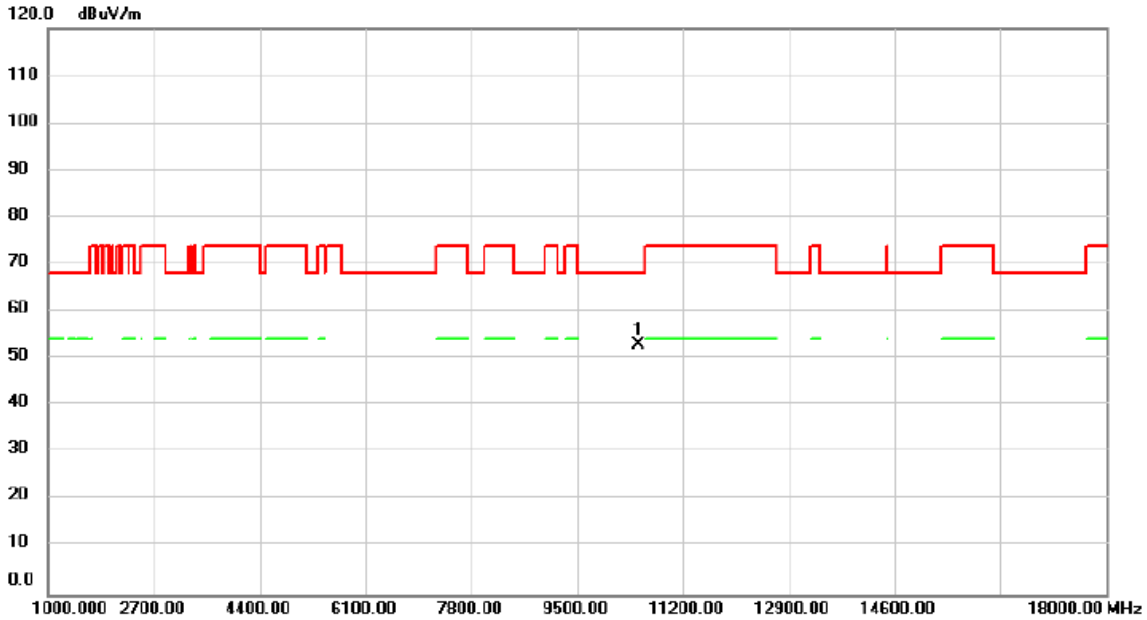
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5240MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	45.94	6.81	52.75	68.20	-15.45	peak	

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

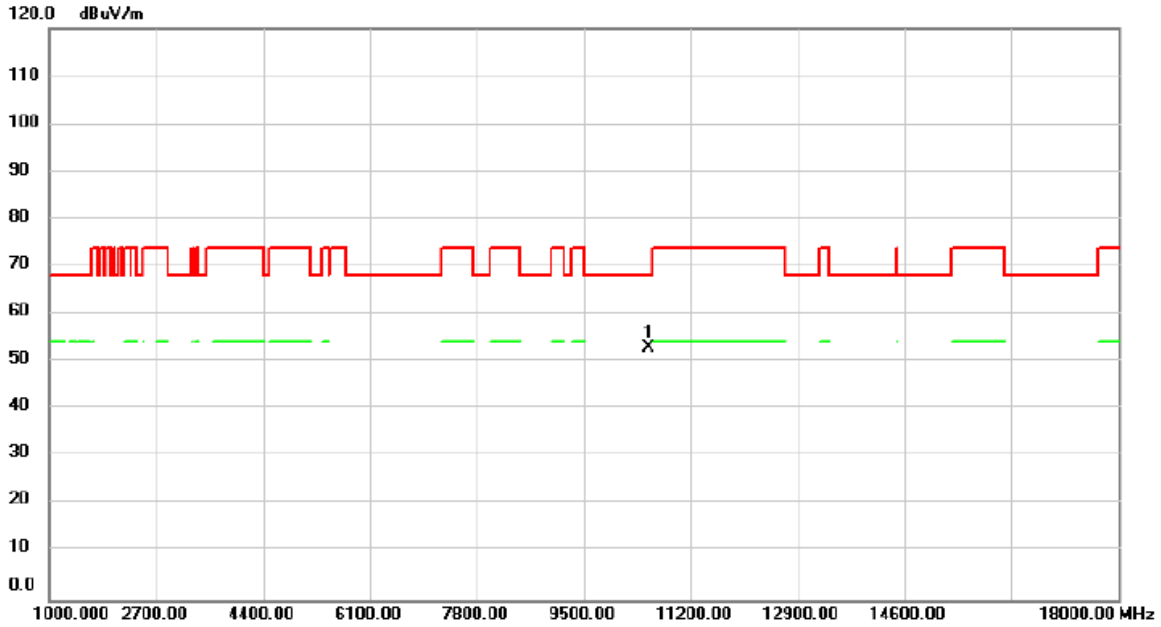
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5240MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	46.05	6.81	52.86	68.20	-15.34	peak	

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

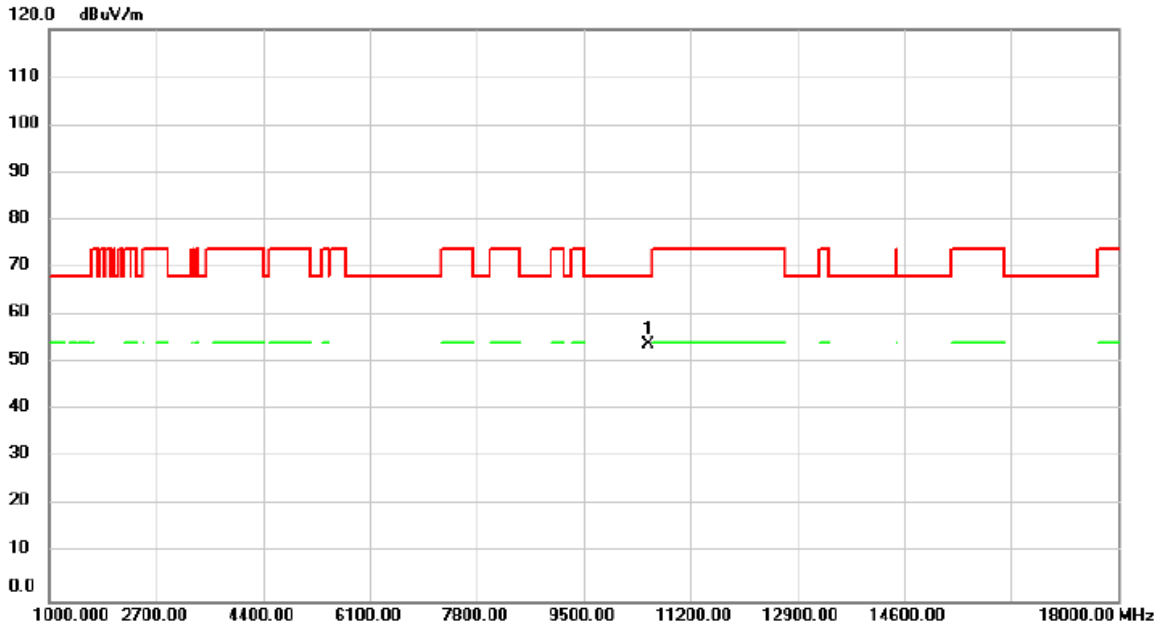
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5260MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10520.00	46.20	6.82	53.02	68.20	-15.18	peak	

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

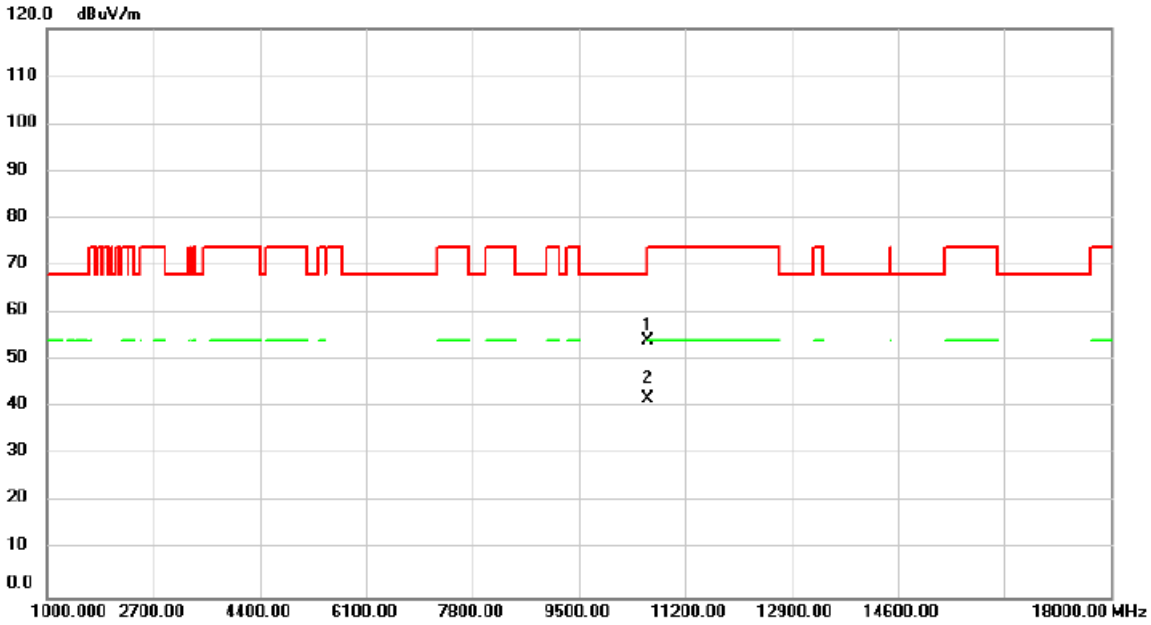
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5260MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10520.00	47.06	6.82	53.88	68.20	-14.32	peak	

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

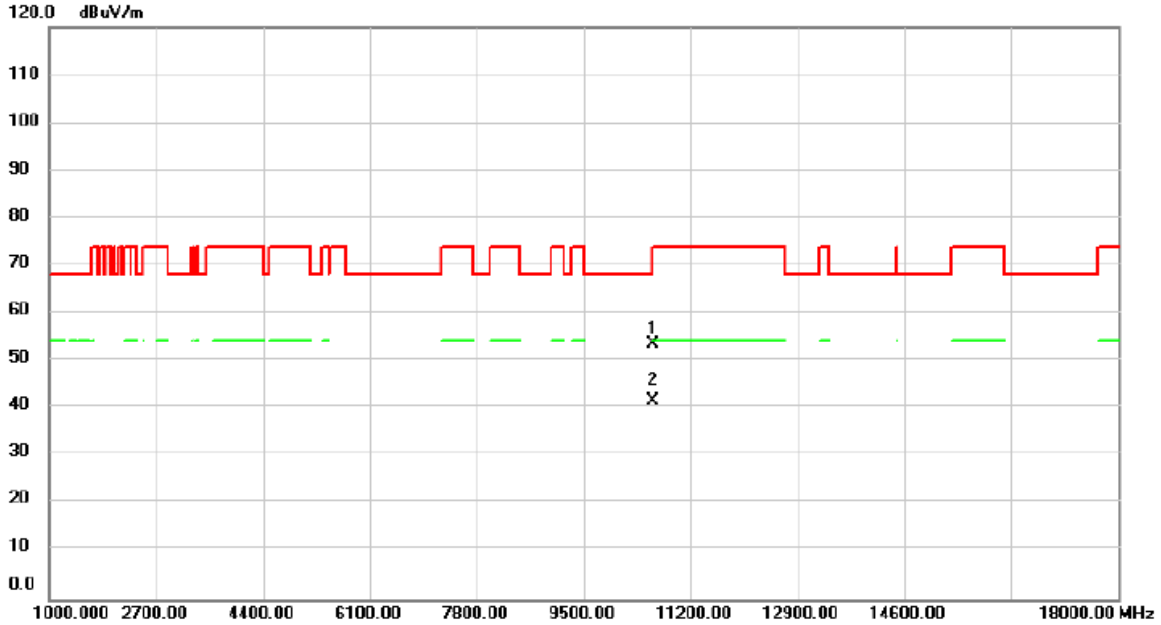
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5300MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10600.00	47.16	6.87	54.03	68.20	-14.17	peak	
2	*	10600.00	34.83	6.87	41.70	54.00	-12.30	AVG	

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

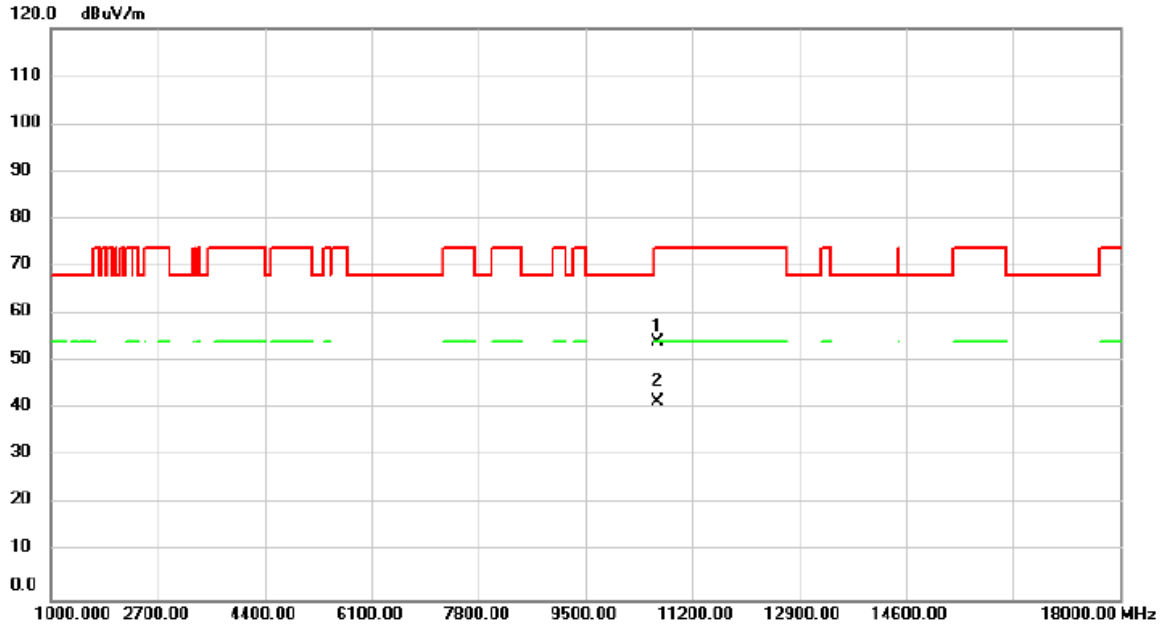
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5300MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10600.00	46.65	6.87	53.52	68.20	-14.68	peak	
2	*	10600.00	34.79	6.87	41.66	54.00	-12.34	AVG	

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

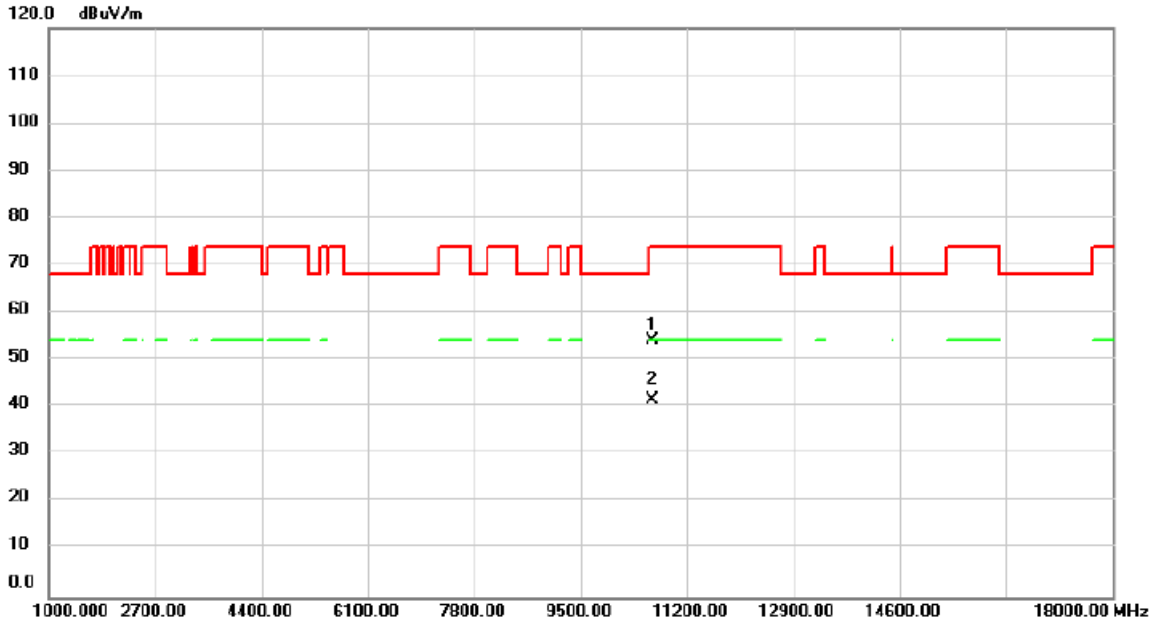
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5320MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10640.00	47.24	6.89	54.13	74.00	-19.87	peak	
2	*	10640.00	34.76	6.89	41.65	54.00	-12.35	AVG	

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

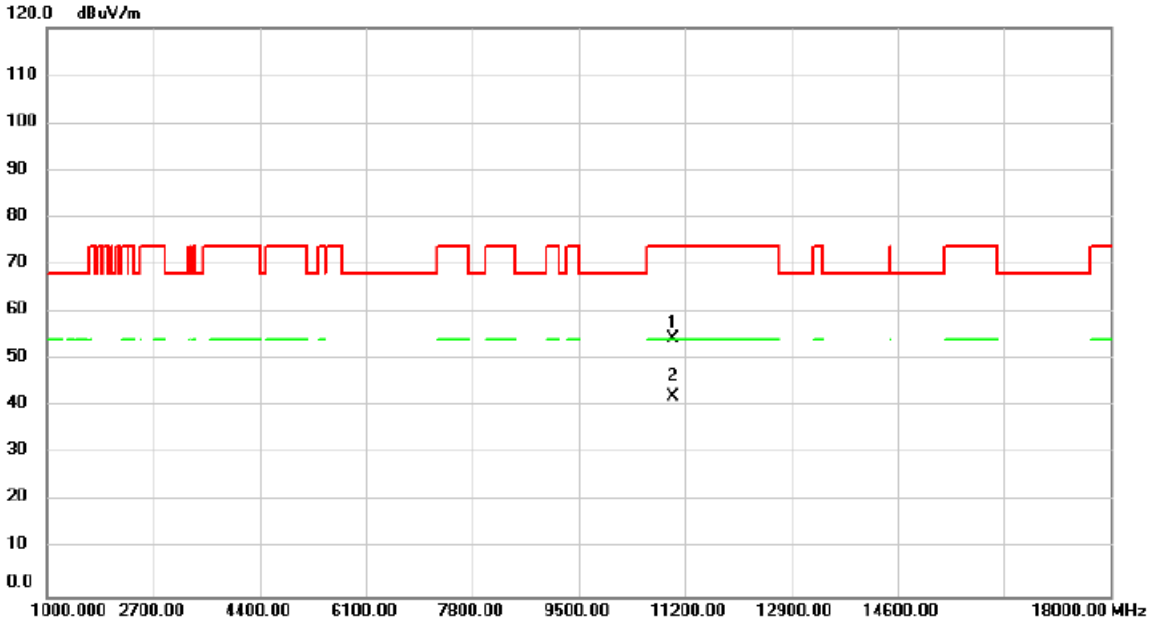
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5320MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10640.00	47.41	6.89	54.30	74.00	-19.70	peak	
2	*	10640.00	34.76	6.89	41.65	54.00	-12.35	AVG	

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

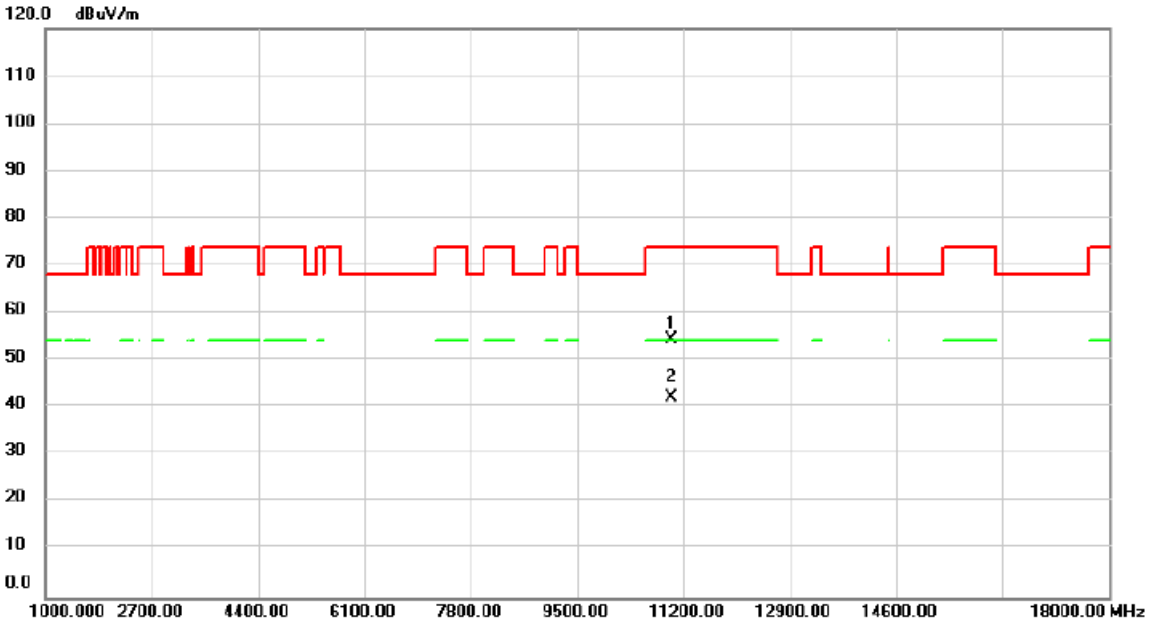
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5500MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11000.00	47.43	7.09	54.52	74.00	-19.48	peak	
2	*	11000.00	35.16	7.09	42.25	54.00	-11.75	AVG	

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

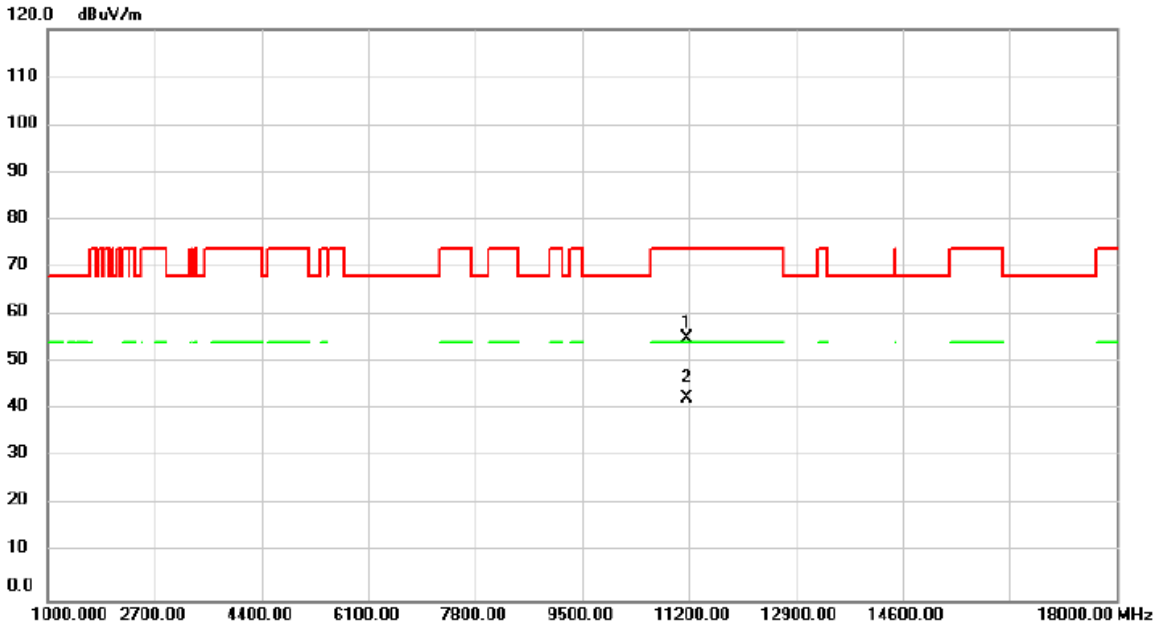
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5500MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11000.00	47.47	7.09	54.56	74.00	-19.44	peak	
2	*	11000.00	35.04	7.09	42.13	54.00	-11.87	AVG	

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

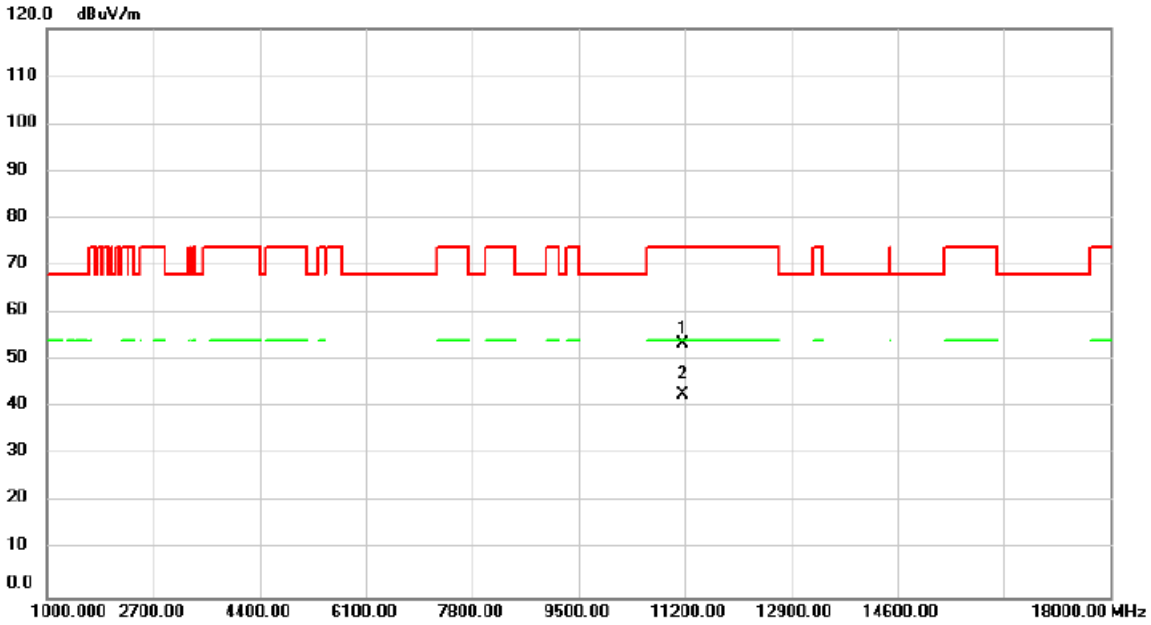
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5580MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11160.00	47.71	7.25	54.96	74.00	-19.04	peak	
2	*	11160.00	35.32	7.25	42.57	54.00	-11.43	AVG	

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

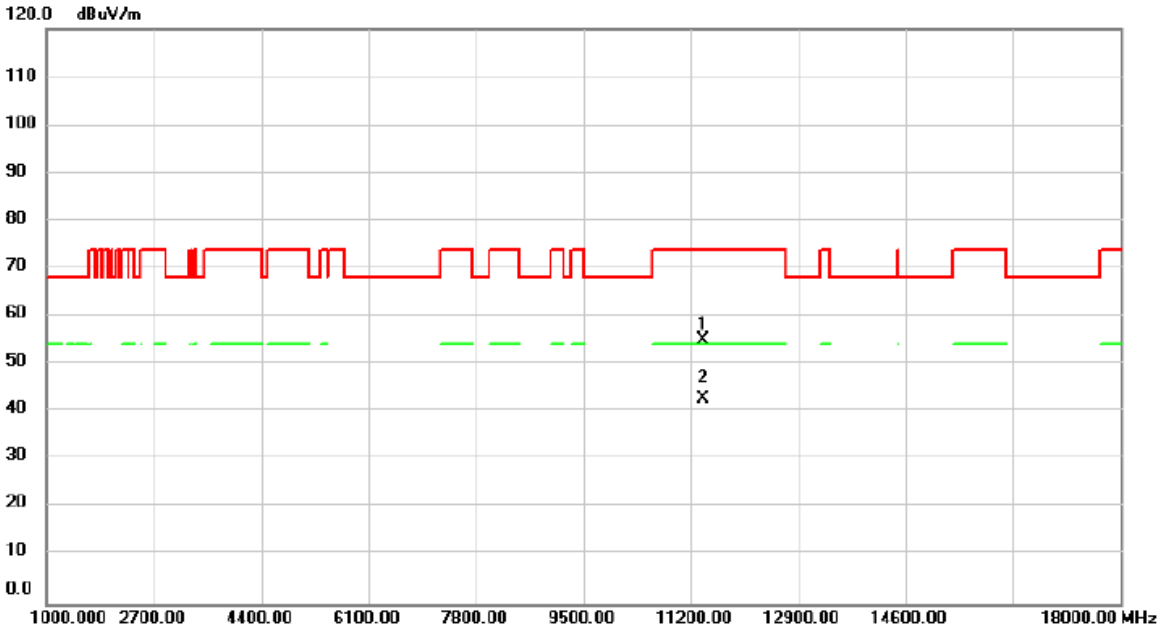
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5580MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11160.00	46.35	7.25	53.60	74.00	-20.40	peak	
2	*	11160.00	35.42	7.25	42.67	54.00	-11.33	AVG	

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

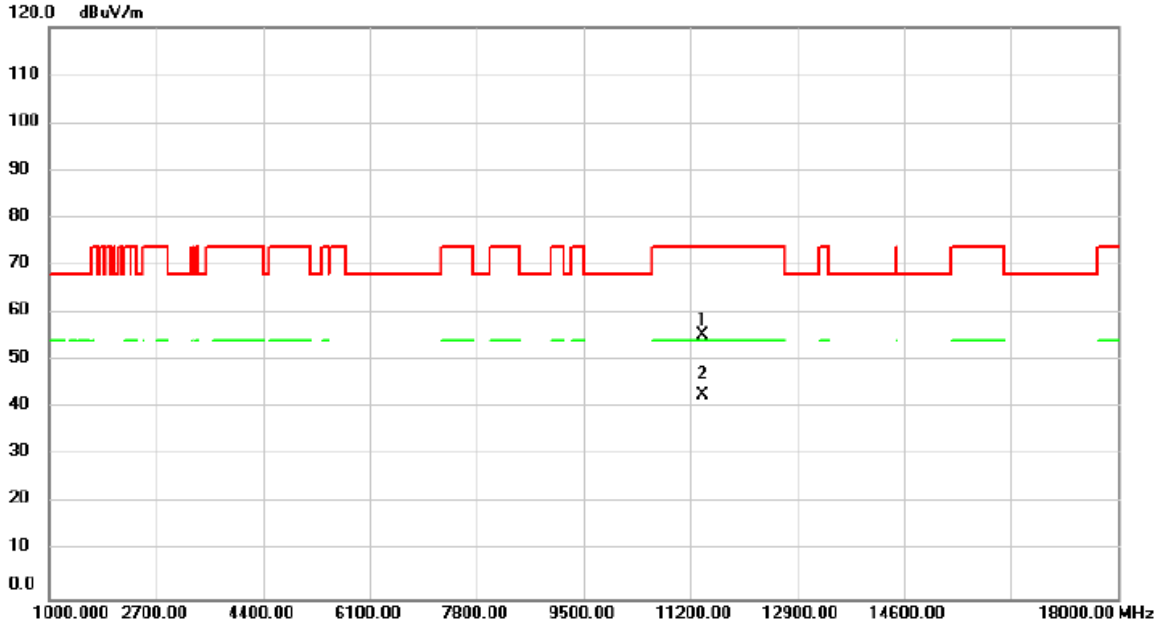
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5700MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11400.00	47.60	7.48	55.08	74.00	-18.92	peak	
2	*	11400.00	35.31	7.48	42.79	54.00	-11.21	AVG	

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

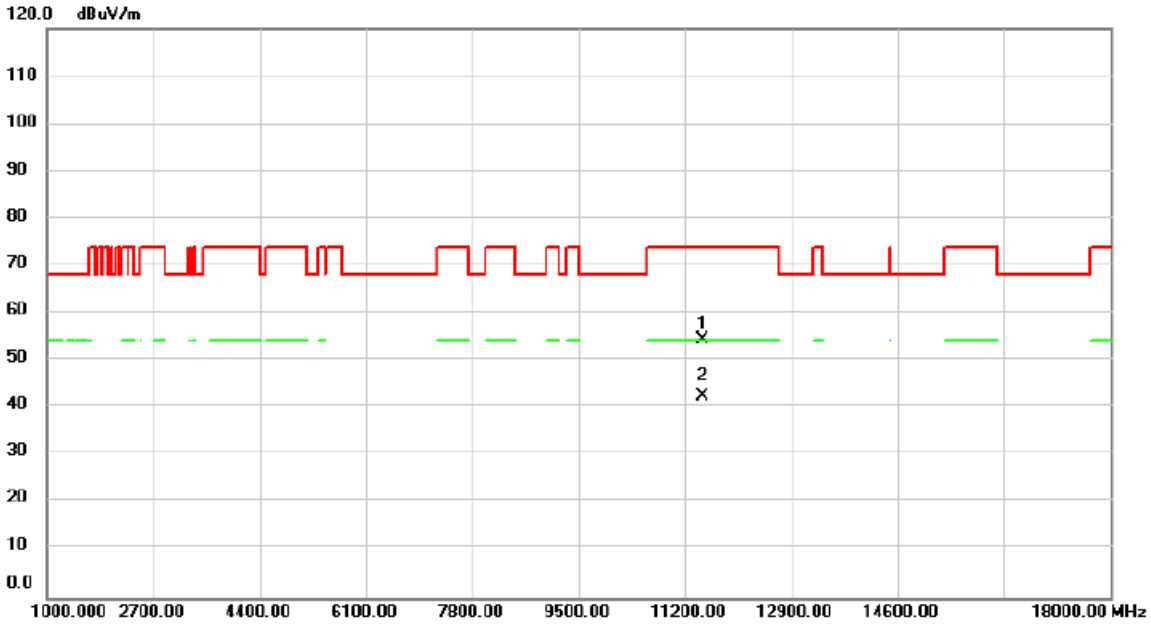
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5700MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11400.00	47.76	7.48	55.24	74.00	-18.76	peak	
2	*	11400.00	35.37	7.48	42.85	54.00	-11.15	AVG	

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

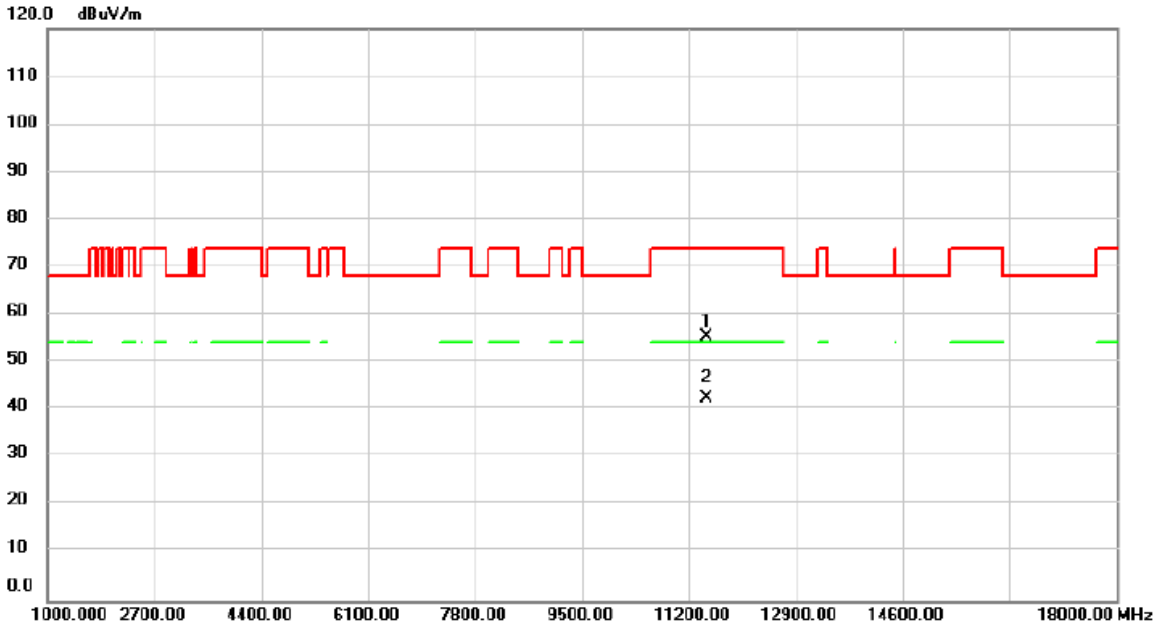
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5745MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	47.00	7.56	54.56	74.00	-19.44	peak	
2	*	11490.00	35.02	7.56	42.58	54.00	-11.42	AVG	

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

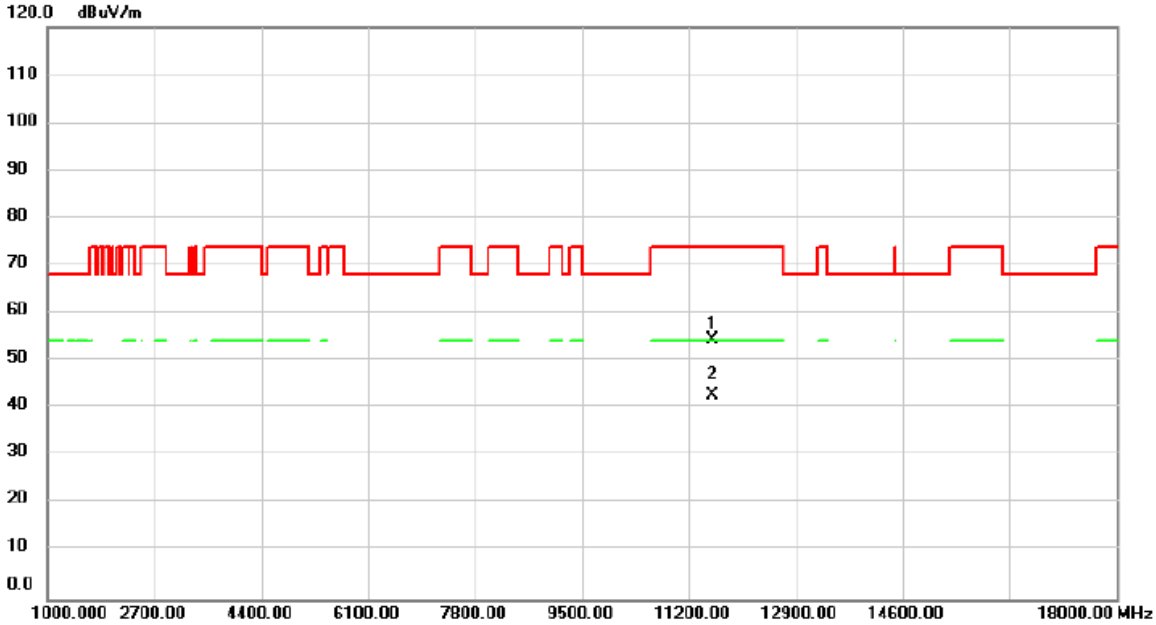
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5745MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	47.65	7.56	55.21	74.00	-18.79	peak	
2	*	11490.00	35.03	7.56	42.59	54.00	-11.41	AVG	

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

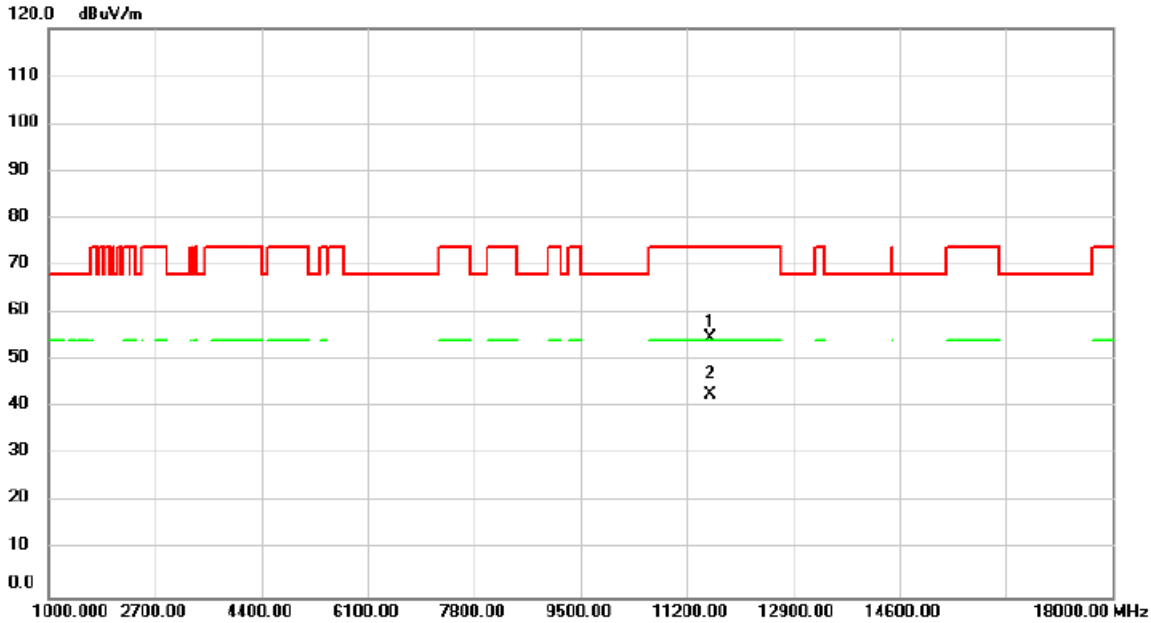
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5785MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	46.94	7.59	54.53	74.00	-19.47	peak	
2	*	11570.00	35.15	7.59	42.74	54.00	-11.26	AVG	

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

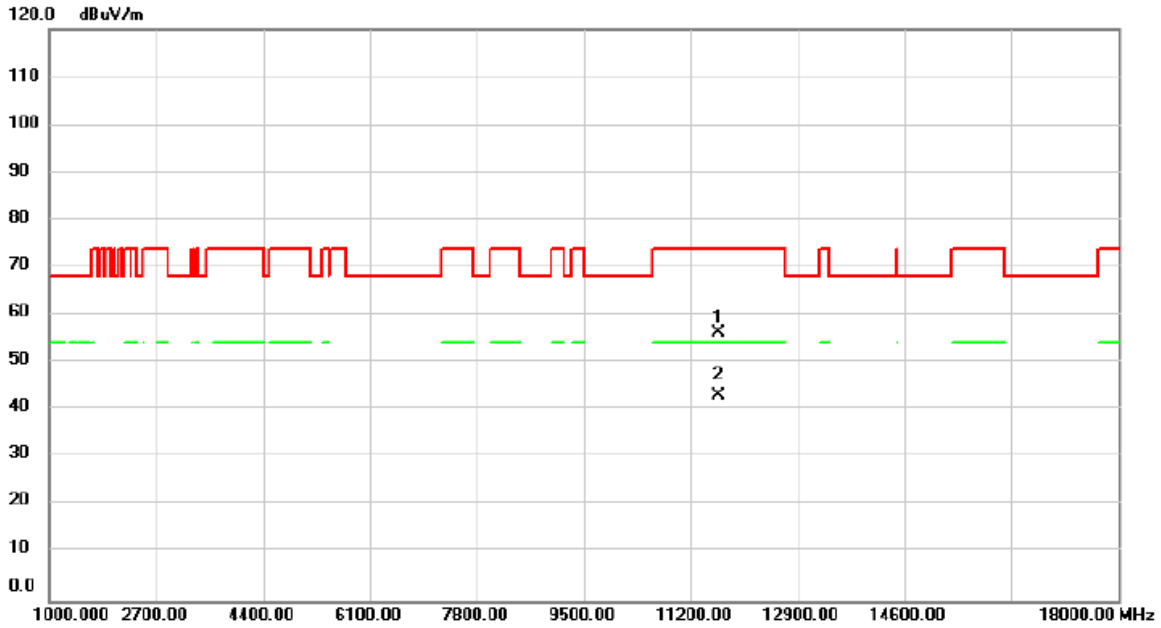
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5785MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	47.28	7.59	54.87	74.00	-19.13	peak	
2	*	11570.00	35.05	7.59	42.64	54.00	-11.36	AVG	

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

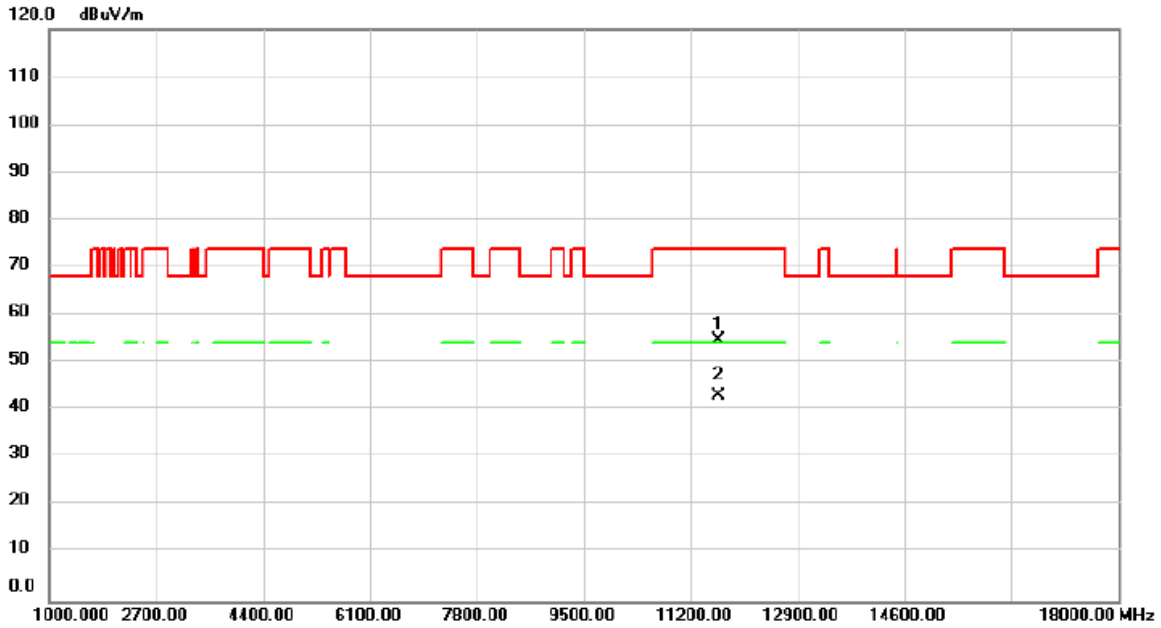
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5825MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	48.69	7.62	56.31	74.00	-17.69	peak	
2	*	11650.00	35.47	7.62	43.09	54.00	-10.91	AVG	

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

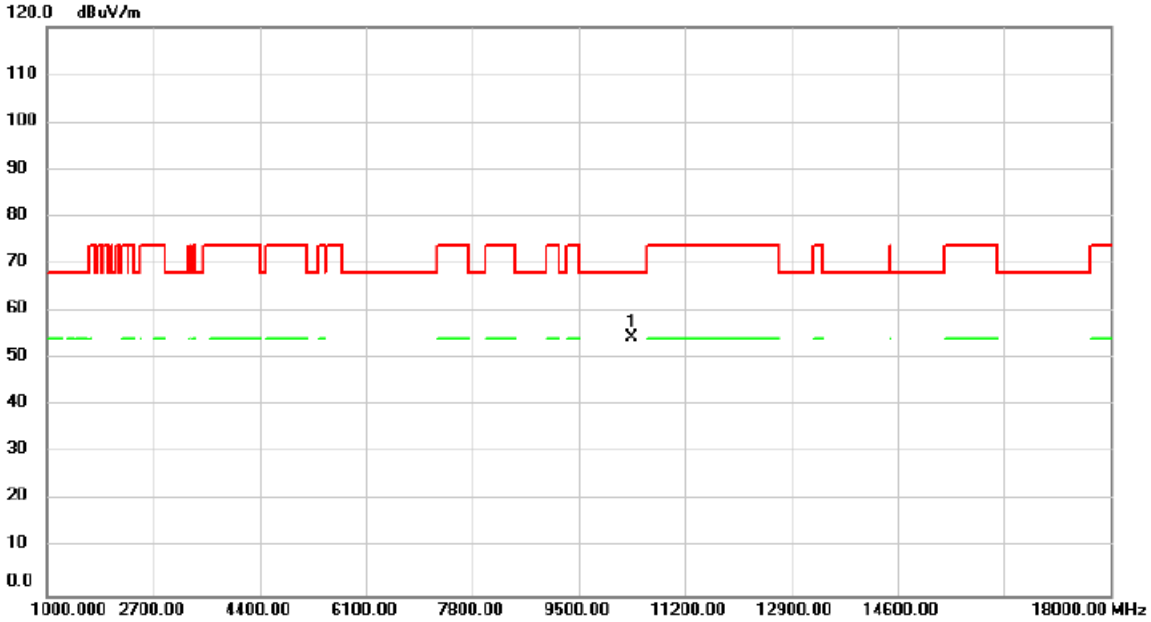
Test Mode	IEEE 802.11a	Test Date	2024/8/27
Test Frequency	5825MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	47.21	7.62	54.83	74.00	-19.17	peak	
2	*	11650.00	35.40	7.62	43.02	54.00	-10.98	AVG	

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

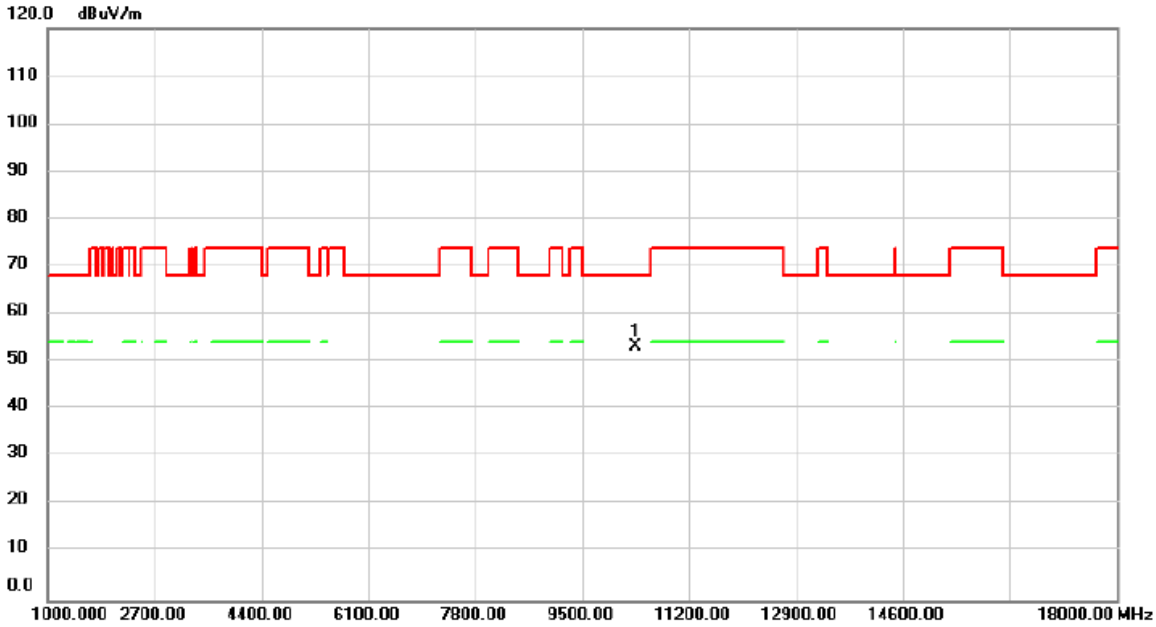
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5180MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	47.77	6.76	54.53	68.20	-13.67	peak	

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

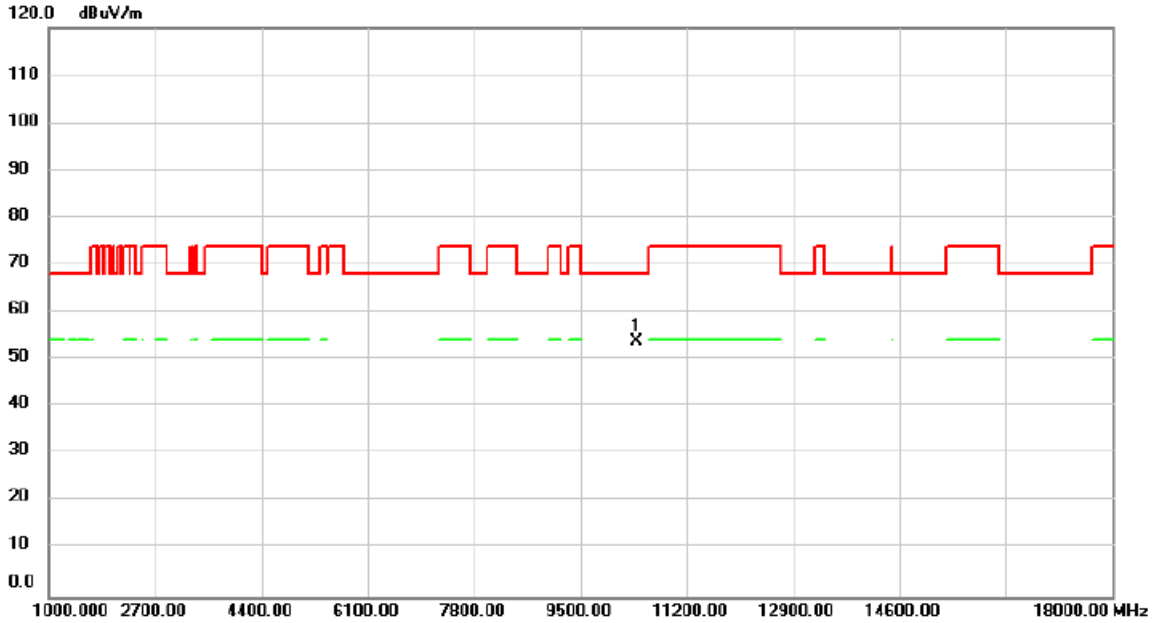
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5180MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	46.40	6.76	53.16	68.20	-15.04	peak	

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

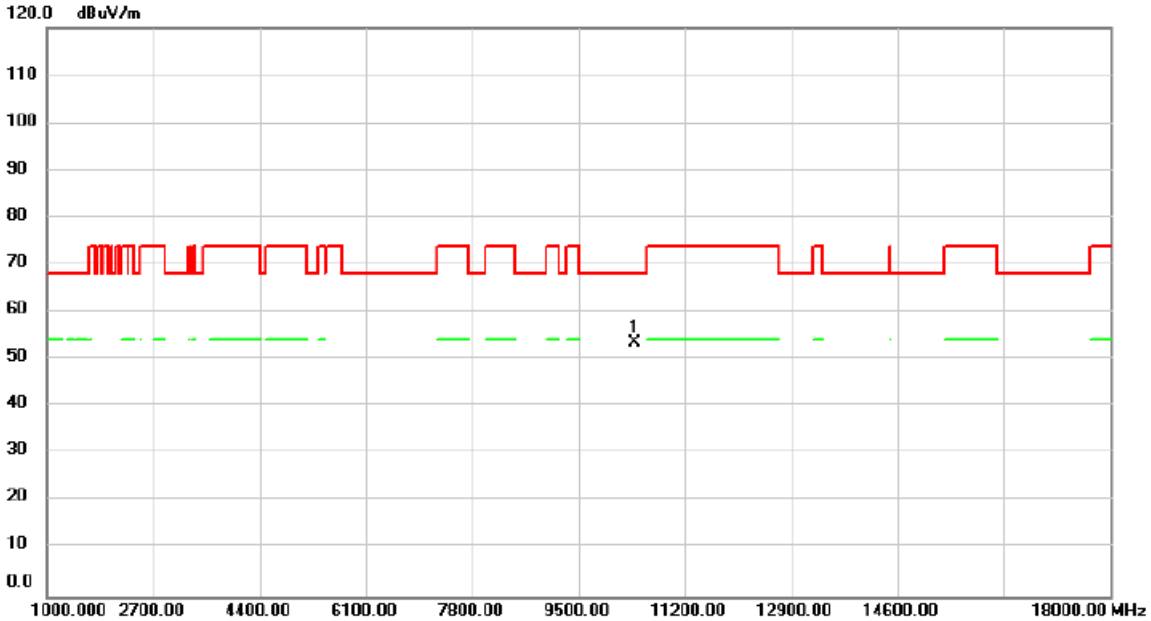
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5200MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	47.11	6.78	53.89	68.20	-14.31	peak	

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

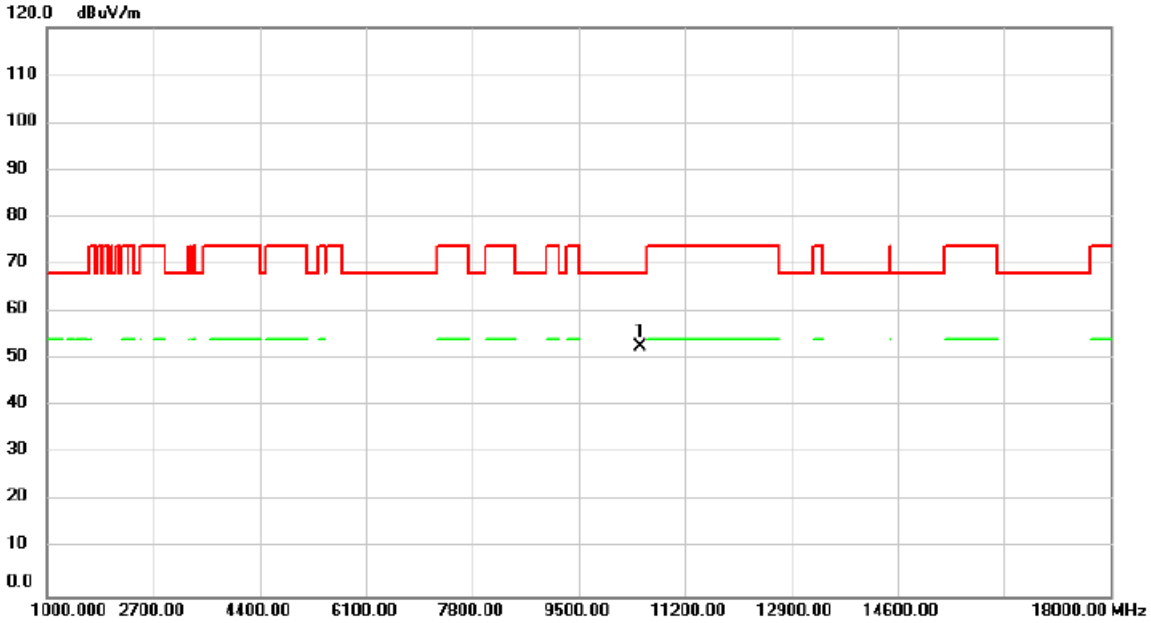
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5200MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	46.82	6.78	53.60	68.20	-14.60	peak	

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

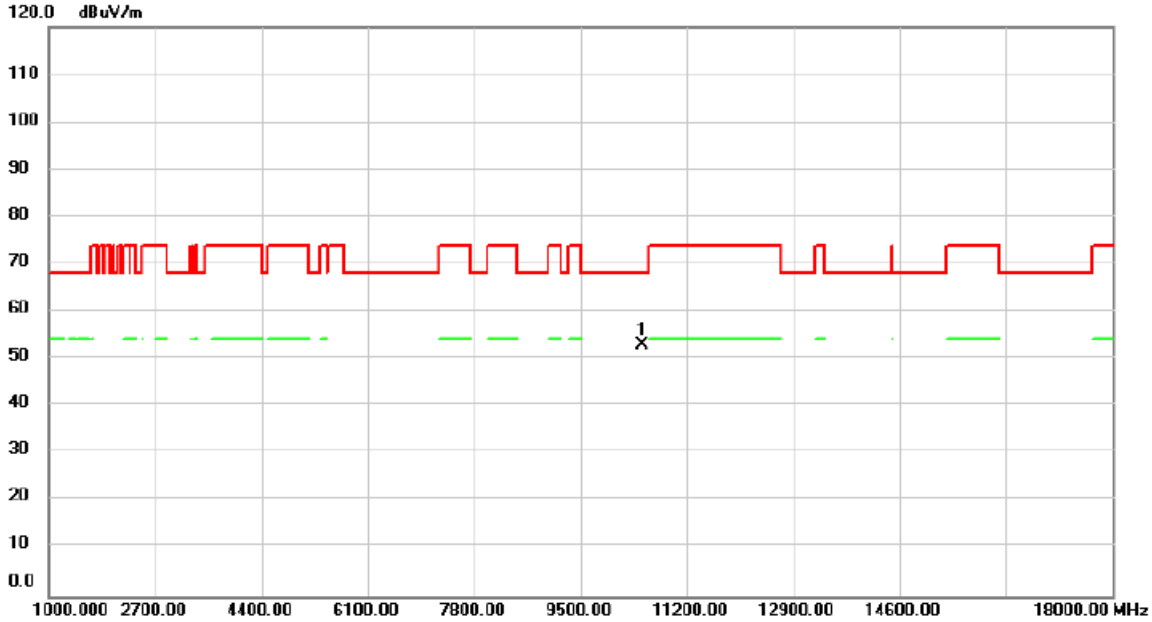
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5240MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	45.83	6.81	52.64	68.20	-15.56	peak	

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

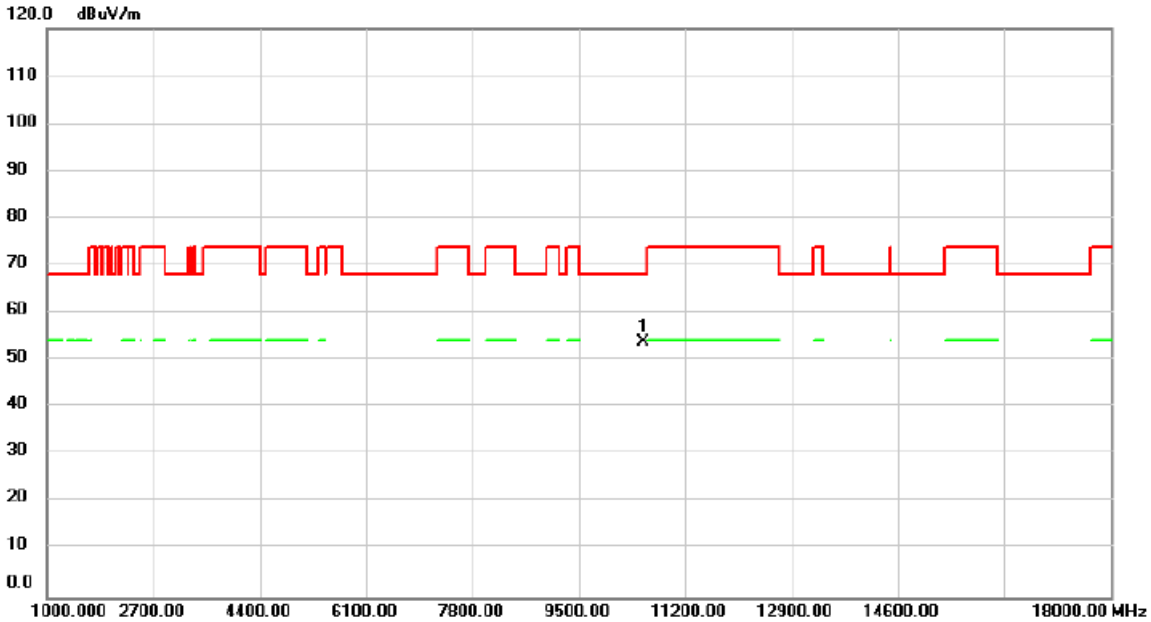
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5240MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	46.06	6.81	52.87	68.20	-15.33	peak	

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

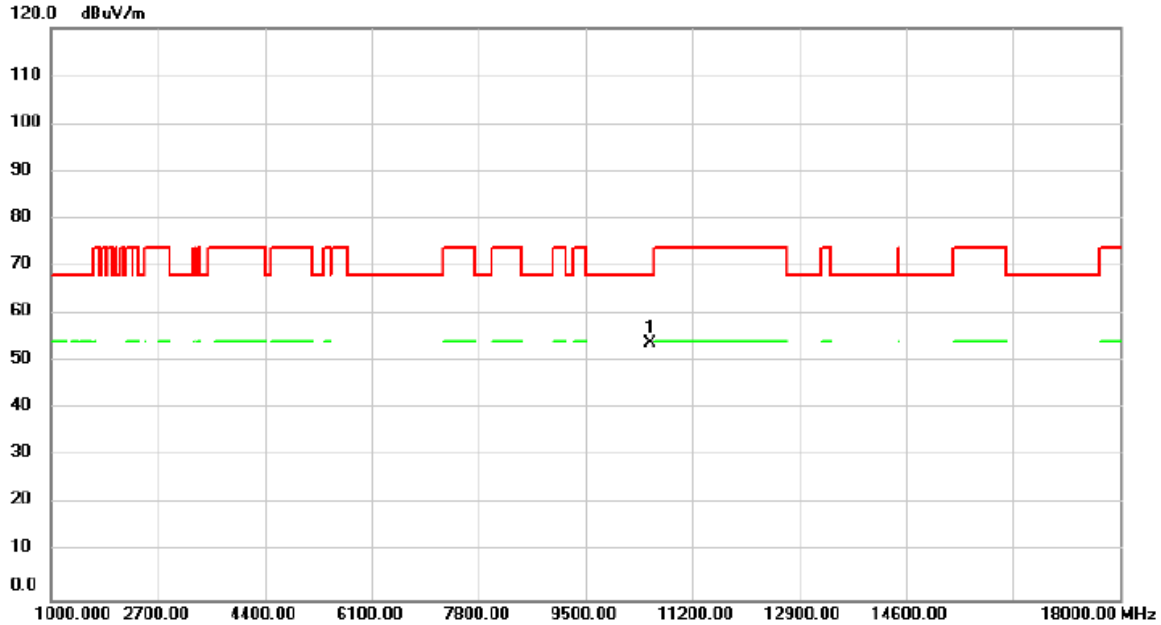
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5260MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10520.00	46.90	6.82	53.72	68.20	-14.48	peak	

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

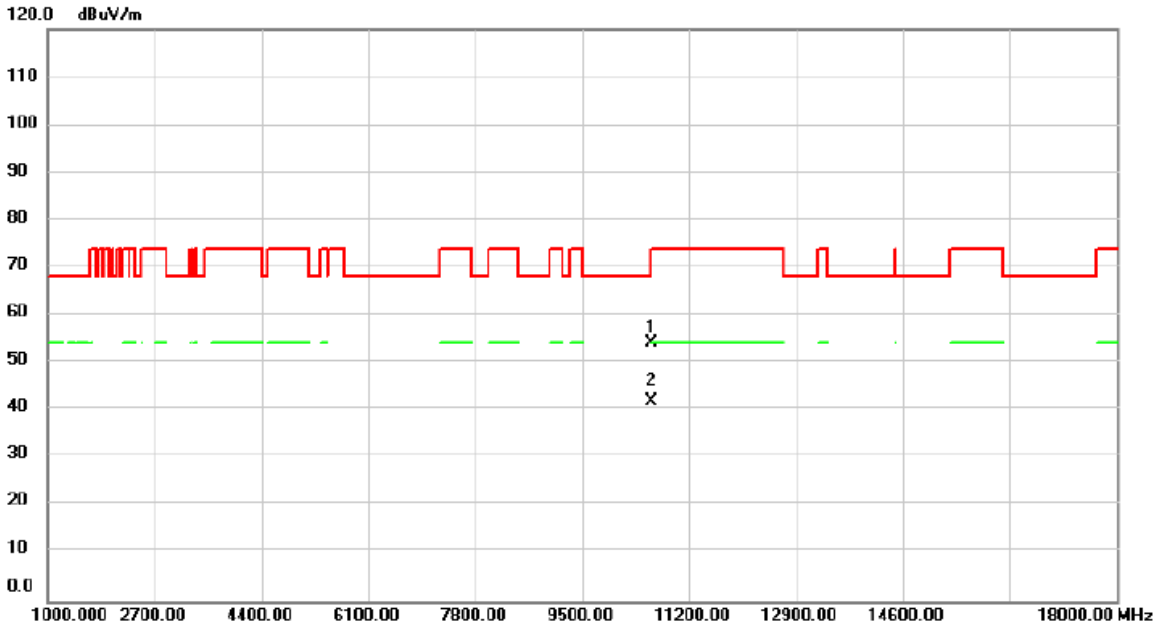
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5260MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10520.00	47.01	6.82	53.83	68.20	-14.37	peak	

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

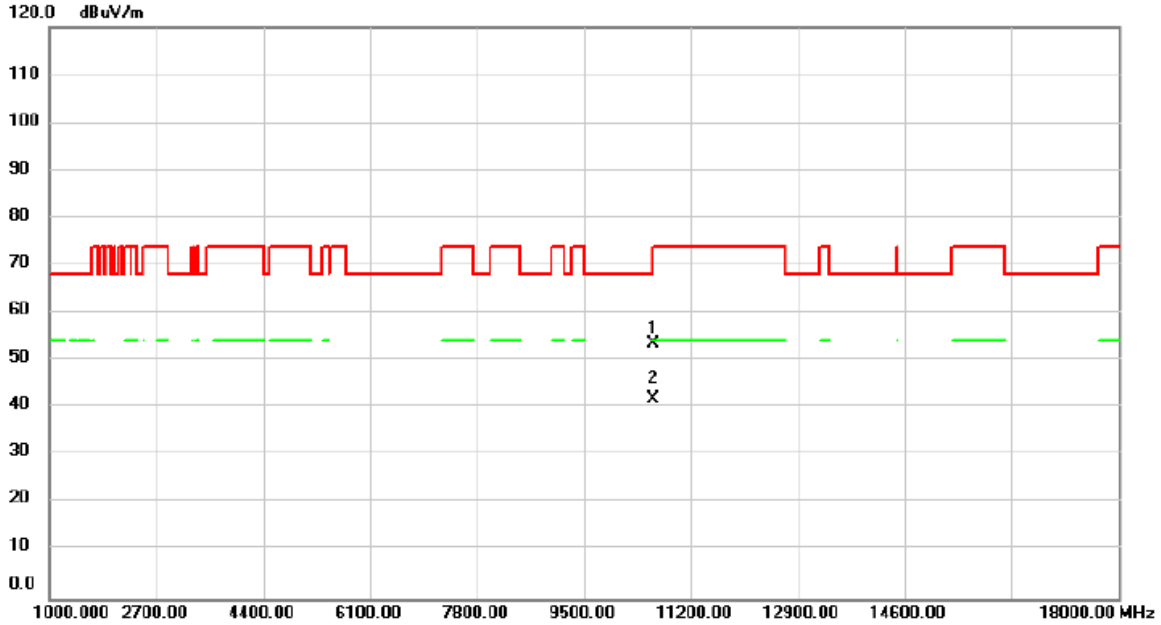
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5300MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10600.00	47.24	6.87	54.11	68.20	-14.09	peak	
2	*	10600.00	34.93	6.87	41.80	54.00	-12.20	AVG	

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

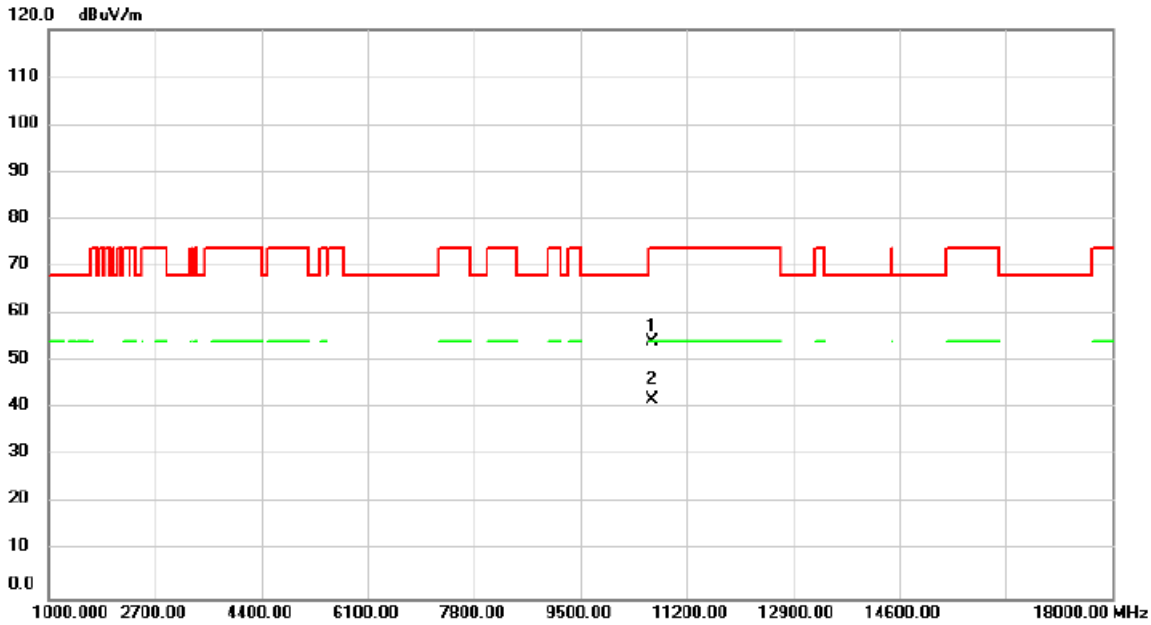
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5300MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10600.00	46.72	6.87	53.59	68.20	-14.61	peak	
2	*	10600.00	34.84	6.87	41.71	54.00	-12.29	AVG	

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

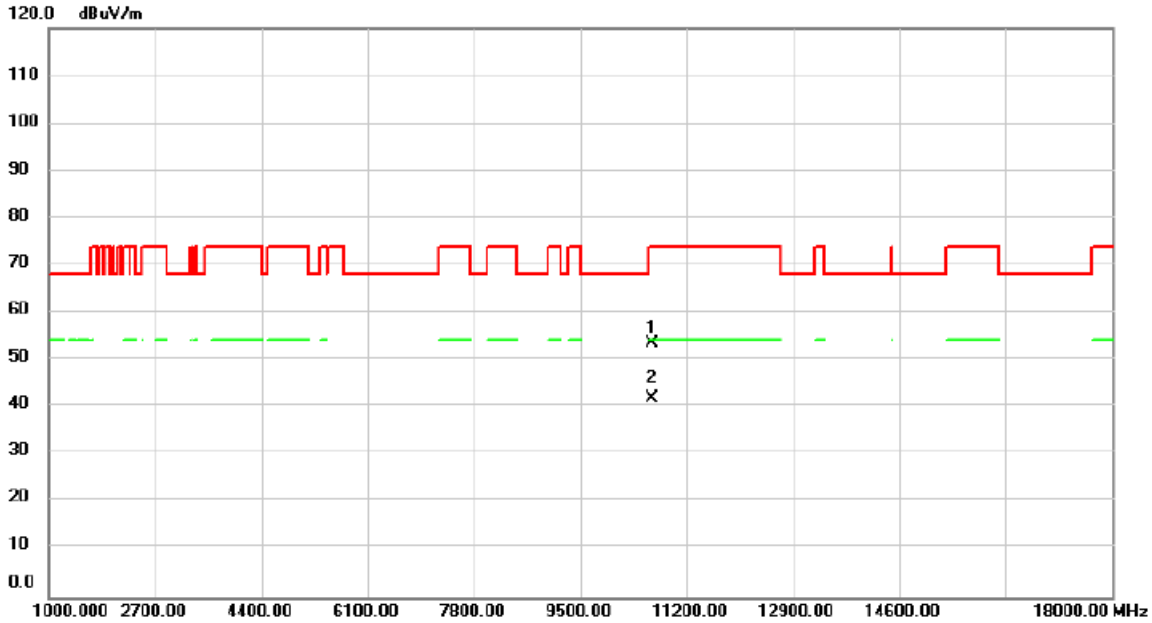
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5320MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10640.00	47.28	6.89	54.17	74.00	-19.83	peak	
2	*	10640.00	34.91	6.89	41.80	54.00	-12.20	AVG	

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

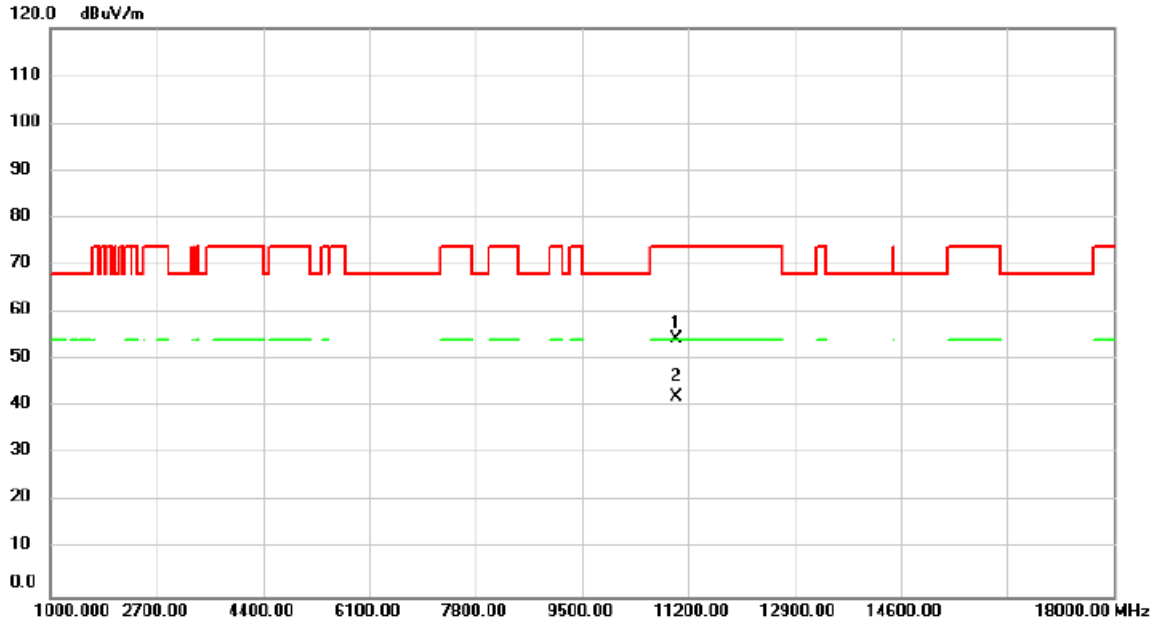
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5320MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10640.00	46.77	6.89	53.66	74.00	-20.34	peak	
2	*	10640.00	34.86	6.89	41.75	54.00	-12.25	AVG	

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

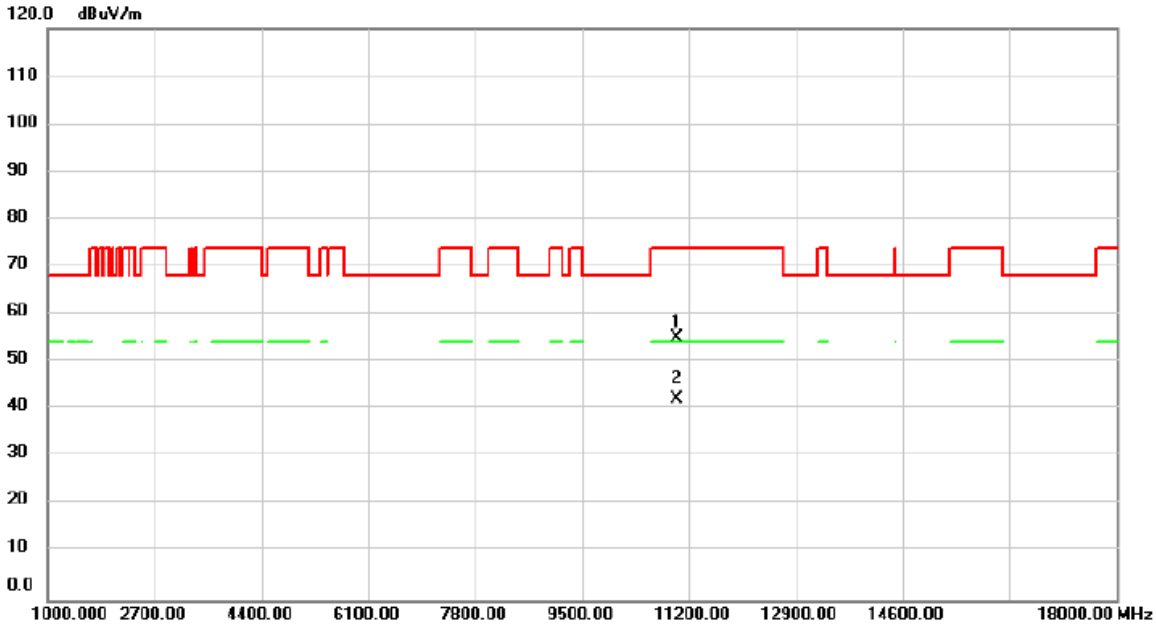
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5500MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11000.00	47.36	7.09	54.45	74.00	-19.55	peak	
2	*	11000.00	35.12	7.09	42.21	54.00	-11.79	AVG	

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

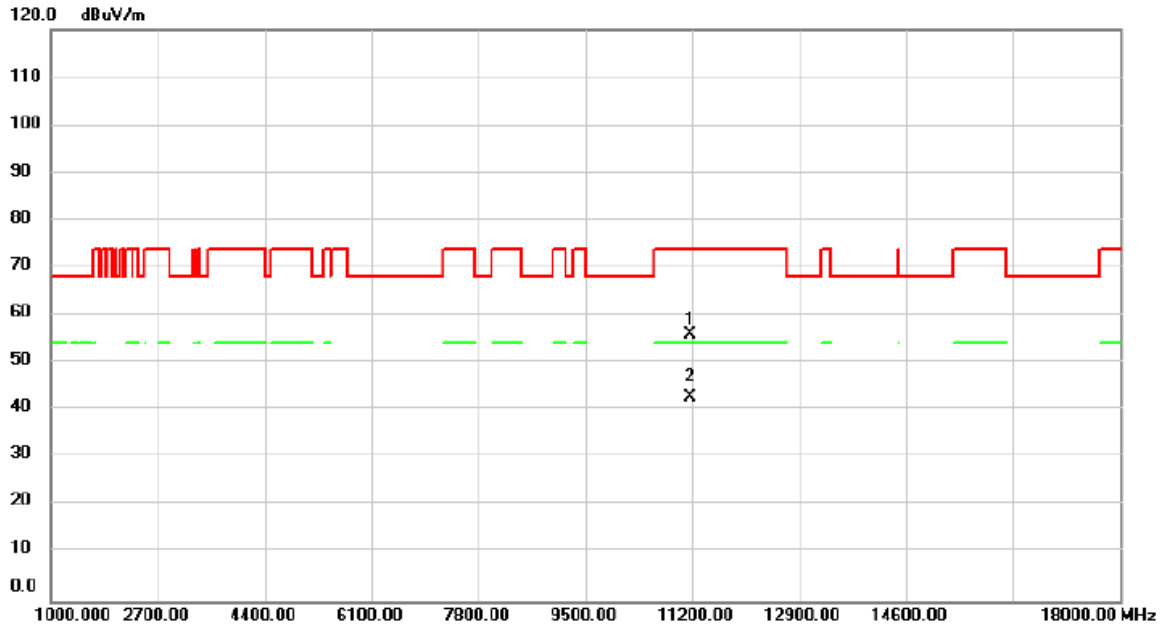
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5500MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11000.00	47.95	7.09	55.04	74.00	-18.96	peak	
2	*	11000.00	35.09	7.09	42.18	54.00	-11.82	AVG	

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

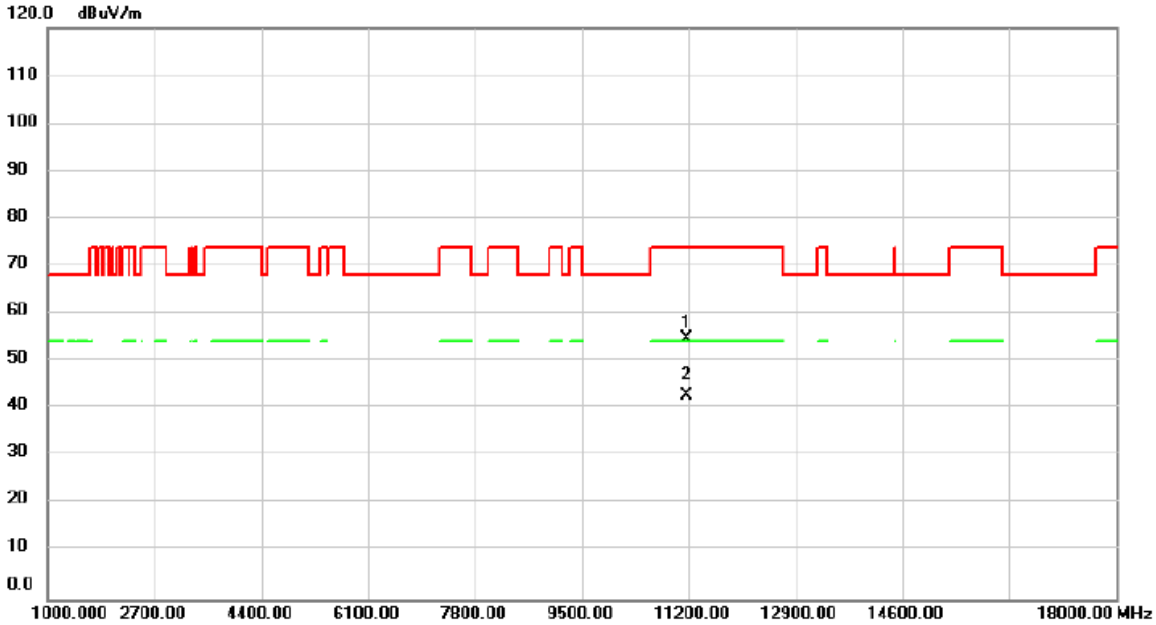
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5580MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11160.00	48.72	7.25	55.97	74.00	-18.03	peak	
2	*	11160.00	35.43	7.25	42.68	54.00	-11.32	AVG	

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

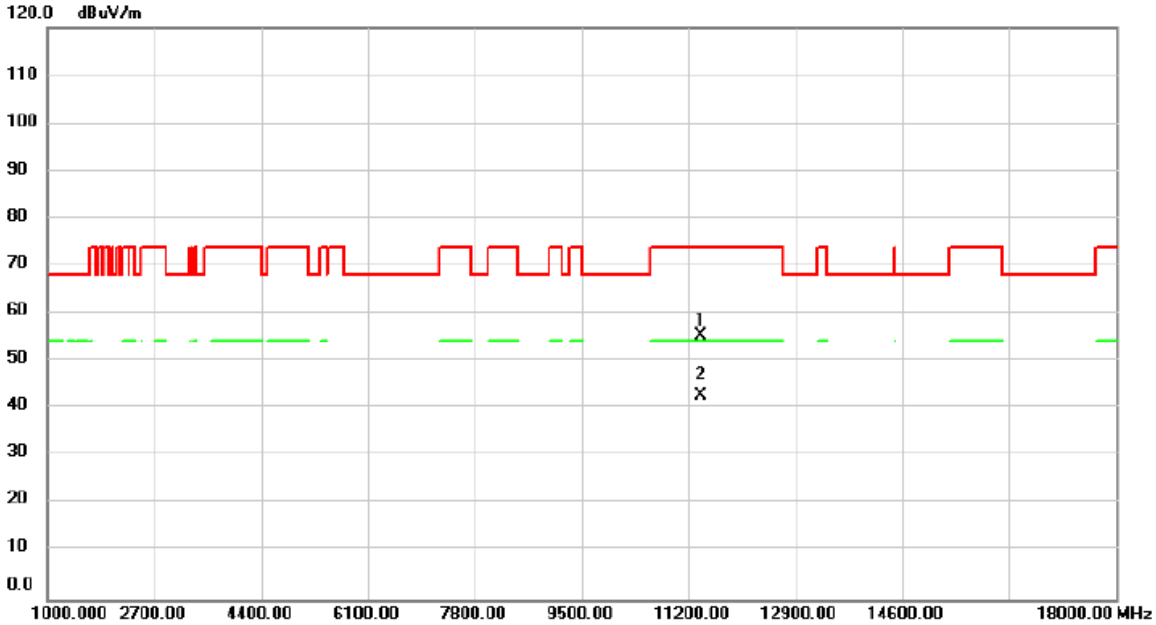
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5580MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11160.00	47.63	7.25	54.88	74.00	-19.12	peak	
2	*	11160.00	35.49	7.25	42.74	54.00	-11.26	AVG	

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

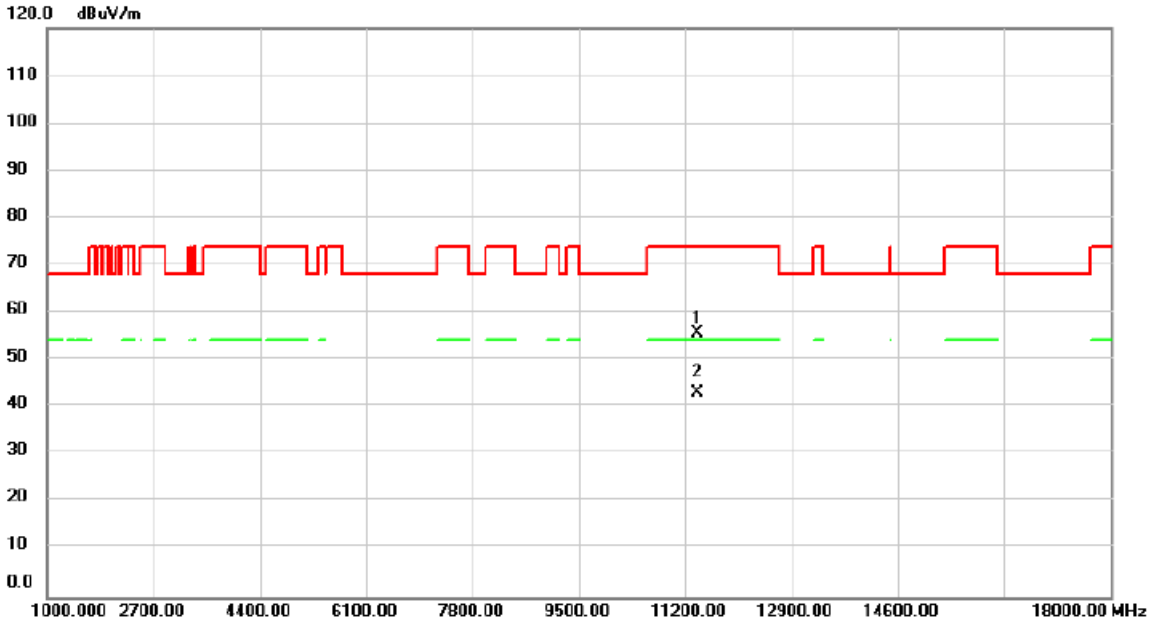
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5700MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11400.00	47.99	7.48	55.47	74.00	-18.53	peak	
2	*	11400.00	35.33	7.48	42.81	54.00	-11.19	AVG	

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

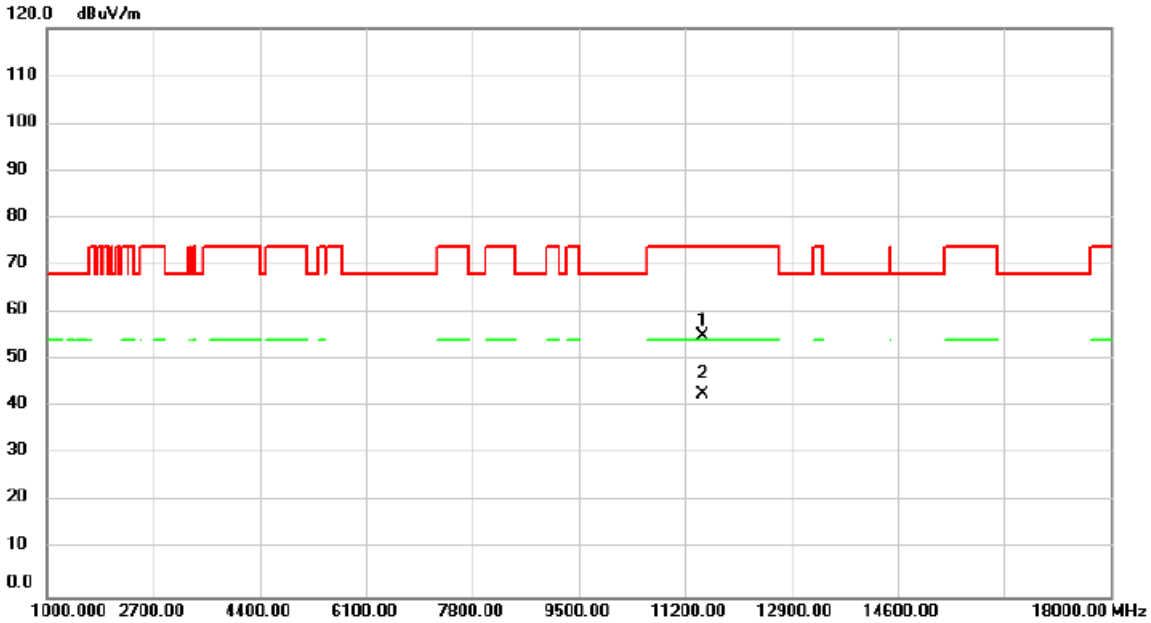
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5700MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11400.00	48.32	7.48	55.80	74.00	-18.20	peak	
2	*	11400.00	35.47	7.48	42.95	54.00	-11.05	AVG	

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

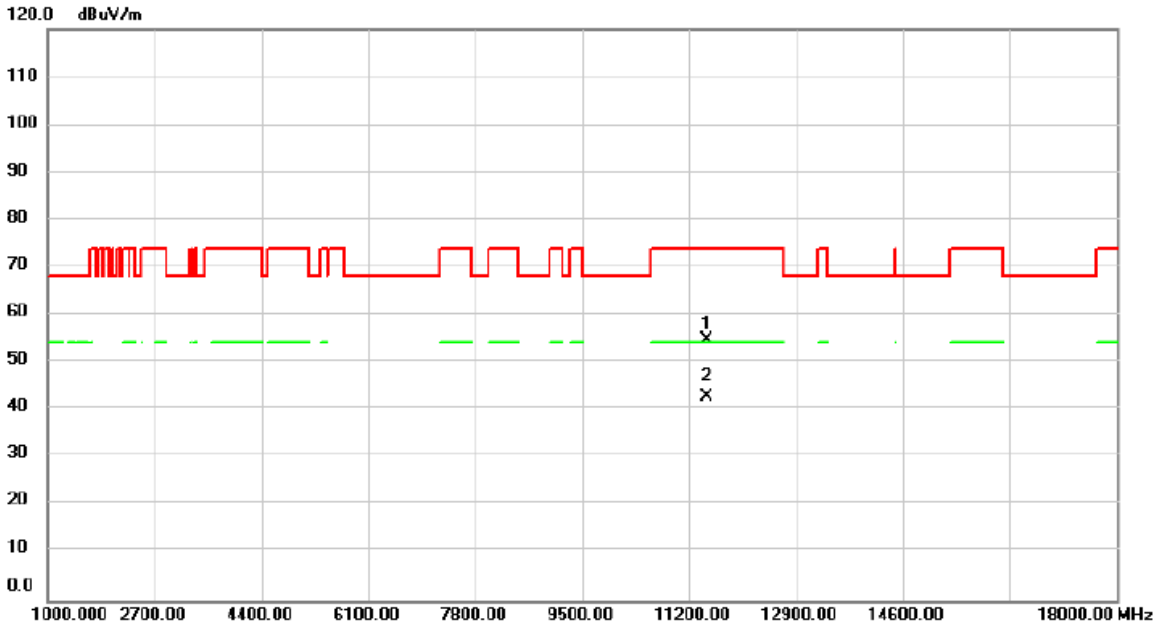
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5745MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	47.42	7.56	54.98	74.00	-19.02	peak	
2	*	11490.00	35.12	7.56	42.68	54.00	-11.32	AVG	

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

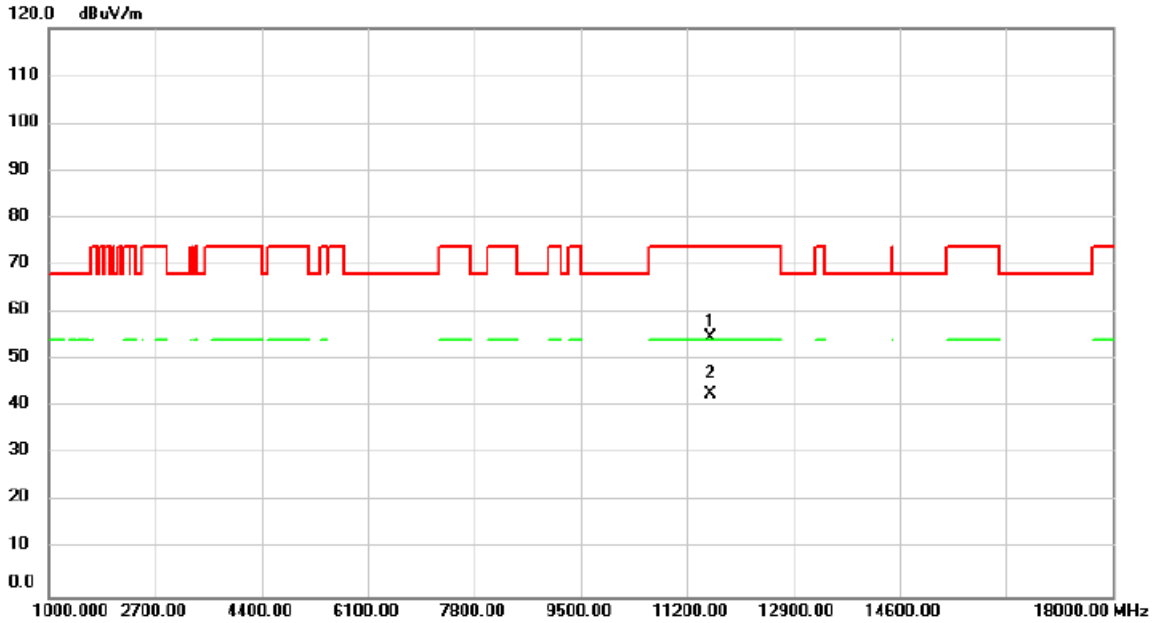
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5745MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	47.08	7.56	54.64	74.00	-19.36	peak	
2	*	11490.00	35.05	7.56	42.61	54.00	-11.39	AVG	

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

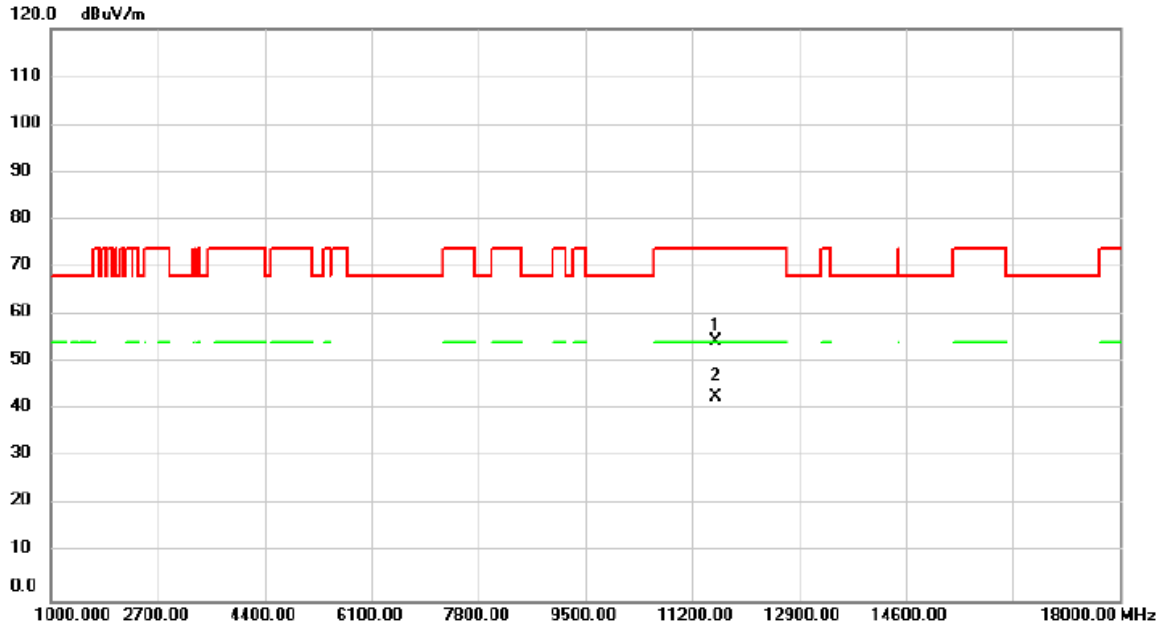
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5785MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	47.04	7.59	54.63	74.00	-19.37	peak	
2	*	11570.00	35.21	7.59	42.80	54.00	-11.20	AVG	

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

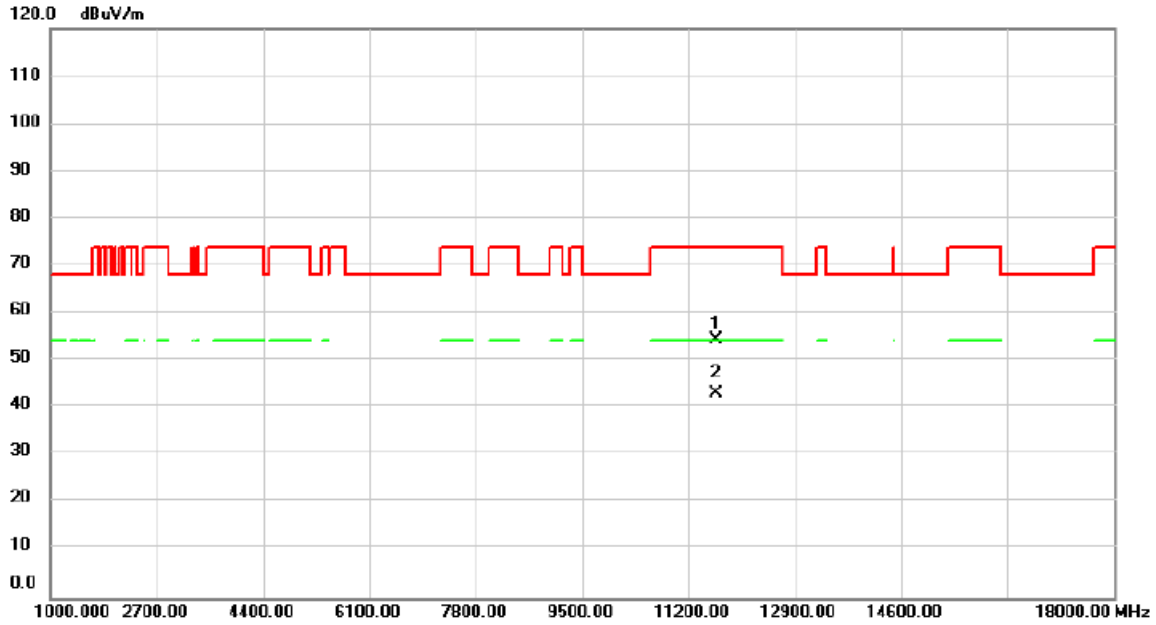
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5785MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	46.74	7.59	54.33	74.00	-19.67	peak	
2	*	11570.00	35.19	7.59	42.78	54.00	-11.22	AVG	

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

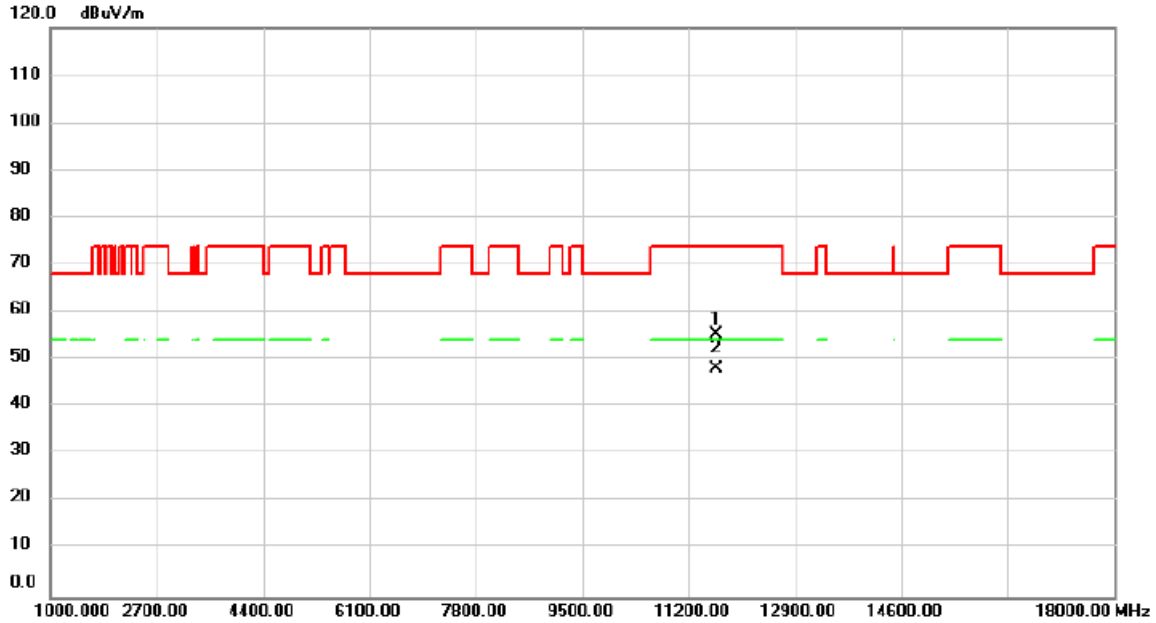
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5825MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	46.86	7.62	54.48	74.00	-19.52	peak	
2	*	11650.00	35.51	7.62	43.13	54.00	-10.87	AVG	

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

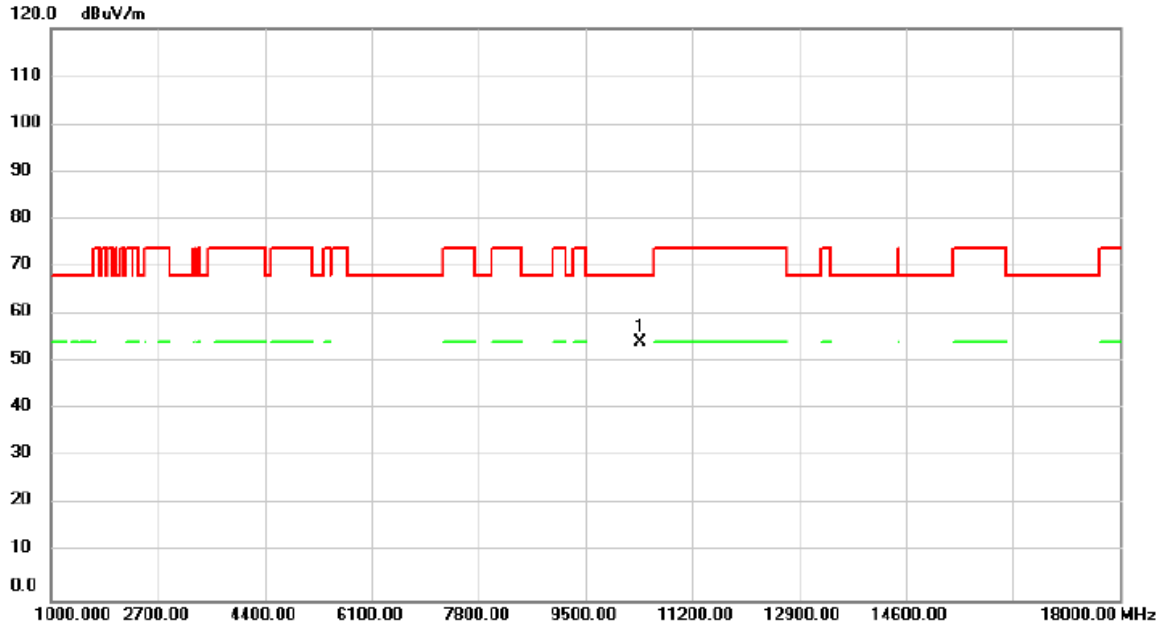
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/8/27
Test Frequency	5825MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	47.72	7.62	55.34	74.00	-18.66	peak	
2	*	11650.00	40.54	7.62	48.16	54.00	-5.84	AVG	

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

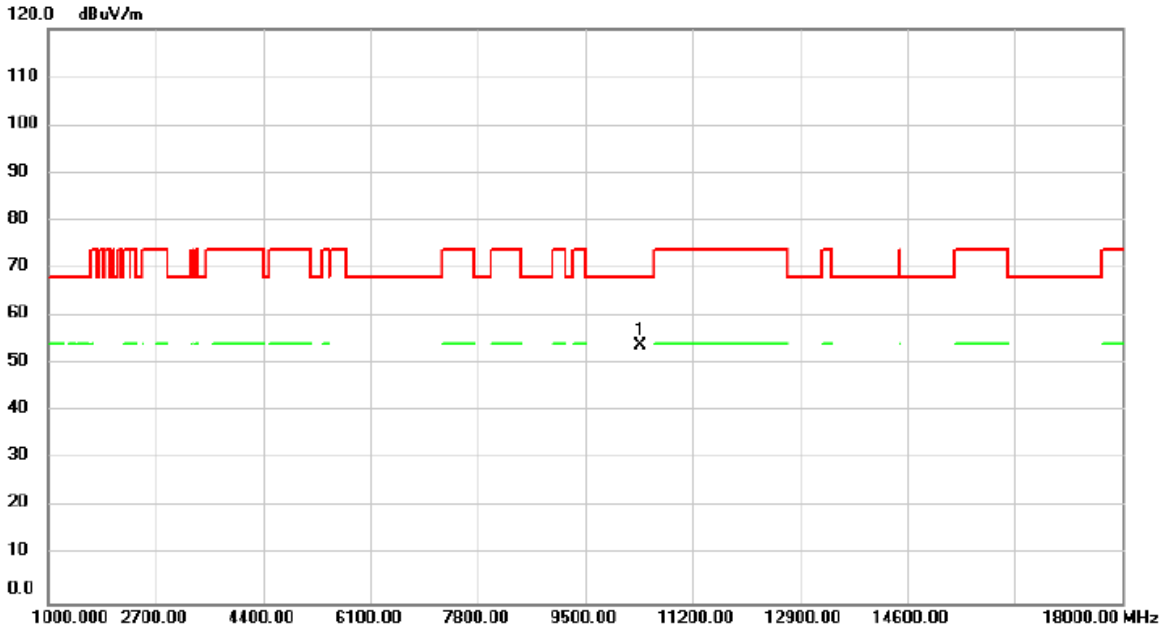
Test Mode	IEEE 802.11n (HT40)	Test Date	2024/8/27
Test Frequency	5190MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10380.00	47.51	6.78	54.29	68.20	-13.91	peak	

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

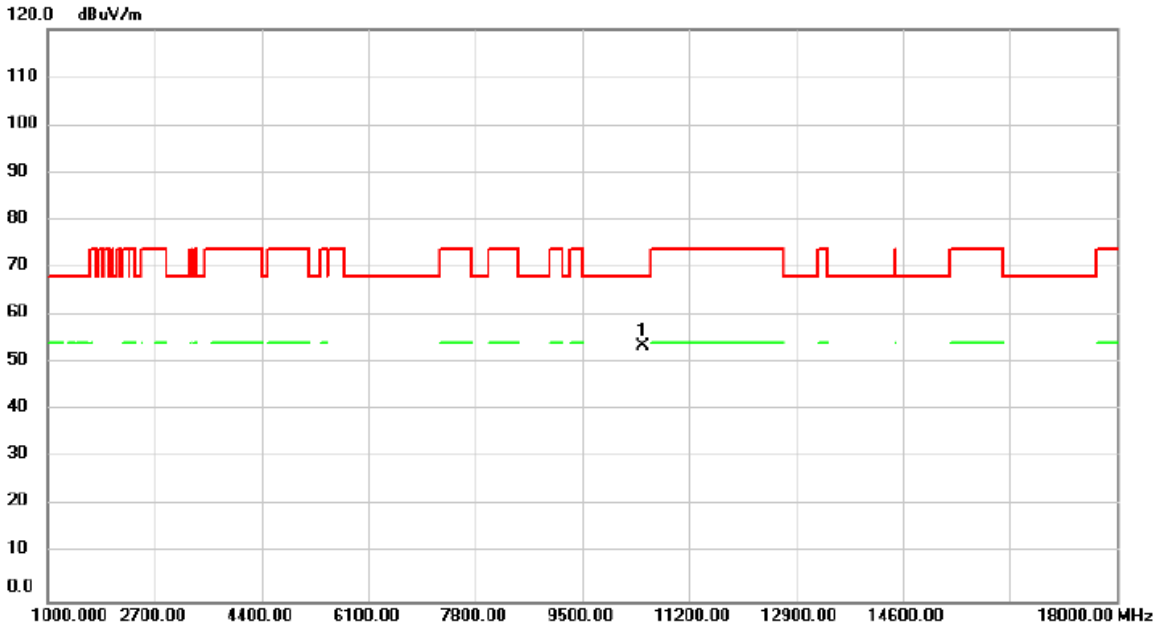
Test Mode	IEEE 802.11n (HT40)	Test Date	2024/8/27
Test Frequency	5190MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10380.00	47.09	6.78	53.87	68.20	-14.33	peak	

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

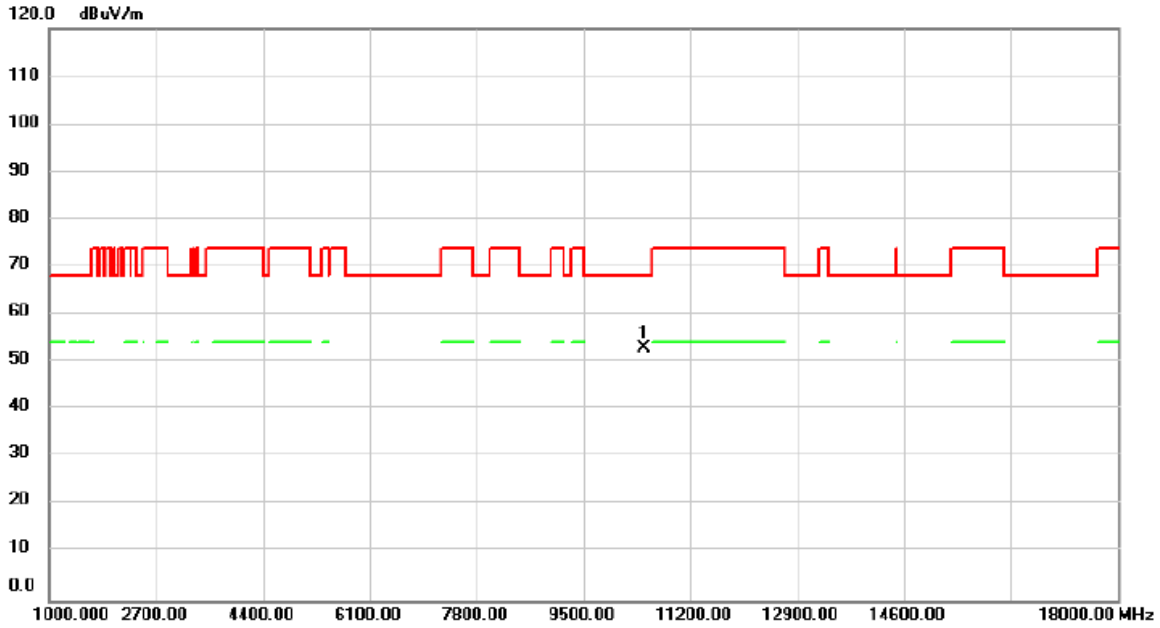
Test Mode	IEEE 802.11n (HT40)	Test Date	2024/8/27
Test Frequency	5230MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.00	46.63	6.80	53.43	68.20	-14.77	peak	

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2024/8/27
Test Frequency	5230MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.00	46.20	6.80	53.00	68.20	-15.20	peak	

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