FCC Radio Test Report

FCC ID: M82-EKI1360CE

Report No.	:	BTL-FCCP-2-2112T115
Equipment	:	Ethernet Device
Model Name	:	EKI-1362-CE, EKI-1361-CE, EKI-6233BN, EKI-136X-CE, EKI-136X-MB-CE, EKI136XXXXXX, EKI-136X-CXXXXXXX, EKI-6233XXXXXXX (where “X” may be any alphanumeric character , blank or “-”.)
Brand Name	:	ADVANTECH
Applicant	:	Advantech Co., Ltd.
Address	:	No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 11491, Taiwan, R.O.C.
Radio Function	:	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
Measurement Procedure(s)	:	ANSI C63.10-2013
Date of Receipt	:	2021/12/24
Date of Test	:	2021/12/24 ~ 2022/6/9
Issued Date	:	2022/7/14

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

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Declaration

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

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

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

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

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

Limitation

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

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

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2112T115	R00	Original Report.	2022/4/15	Invalid
BTL-FCCP-2-2112T115	R01	Added series model.	2022/4/26	Invalid
BTL-FCCP-2-2112T115	R02	Revised report to address TCB's comments and added two appearances.	2022/6/17	Invalid
BTL-FCCP-2-2112T115	R03	Revised report to address TCB's comments and added two appearances.	2022/7/14	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	------
15.205 15.209 15.407(b)	Radiated Emissions	APPENDIX B APPENDIX C	Pass	------
15.407(a)	Bandwidth	APPENDIX D	Pass	------
15.407(a)	Output Power	APPENDIX E	Pass	------
15.407(a)	Power Spectral Density	APPENDIX F	Pass	------
15.203	Antenna Requirement	------	Pass	------
15.407(c)	Automatically Discontinue Transmission	------	Pass	**NOTE (3)**

NOTE:
(1) ”N/A” denotes test is not applicable in this Test Report.
(2) The report format version is TP.1.1.1.
(3) The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

1.1 TEST FACILITY

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

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan
The test sites and facilities are covered under FCC RN: 270329; FCC DN: TW0030.
☒ C03 ☐ CB18 ☐ CB19

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
The test sites and facilities are covered under FCC RN: 674415 and DN: TW0659.
☐ C05 ☐ CB08 ☐ CB11 ☒ CB15 ☐ CB16
☒ SR05

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y ± U**, where expanded uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k = 2**, providing a level of confidence of approximately **95 %**. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C03	CISPR	150 kHz ~ 30 MHz	3.28

B. Radiated emissions test :

Test Site	Measurement Frequency Range	U,(dB)
CB15	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
	1 GHz ~ 6 GHz	5.21
	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

C. Conducted test :

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

NOTE:
Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	22°C, 69%	DC 12V	Ken Lin
Radiated emissions below 1 GHz	22 °C, 65 % 22 °C, 51 %	DC 48V	Vincent Lee Eddie Lee
Radiated emissions above 1 GHz	20 °C, 61~62 %	DC 48V	Vincent Lee
Bandwidth	25.4 °C, 51 %	DC 48V	Paul Shen
Output Power	25.4 °C, 51 %	DC 48V	Paul Shen
Power Spectral Density	25.4 °C, 51 %	DC 48V	Paul Shen

1.4 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

UNII-1				
Test Software	Putty Release 0.62			
Mode	5180 MHz	5200 MHz	5240 MHz	Data Rate
IEEE 802.11a	1000	1000	1000	6 Mbps
IEEE 802.11n (HT20)	1000	1000	1000	HT 0
IEEE 802.11ac (VHT20)	1000	1000	1000	MCS 0
Mode	5190 MHz	5230 MHz		Data Rate
IEEE 802.11n (HT40)	1000	1000		HT 0
IEEE 802.11ac (VHT40)	1000	1000		MCS 0
Mode	5210 MHz			Data Rate
IEEE 802.11ac (VHT80)	1000			MCS 0

UNII-2A				
Test Software	Putty Release 0.62			
Mode	5260 MHz	5300 MHz	5320 MHz	Data Rate
IEEE 802.11a	1000	1000	1000	6 Mbps
IEEE 802.11n (HT20)	1000	1000	1000	HT 0
IEEE 802.11ac (VHT20)	1000	1000	1000	MCS 0
Mode	5270 MHz	5310 MHz		Data Rate
IEEE 802.11n (HT40)	1000	1000		HT 0
IEEE 802.11ac (VHT40)	1000	1000		MCS 0
Mode	5290 MHz			Data Rate
IEEE 802.11ac (VHT80)	1000			MCS 0

UNII-2C				
Test Software	Putty Release 0.62			
Mode	5500 MHz	5580 MHz	5700 MHz	Data Rate
IEEE 802.11a	1000	1000	1000	6 Mbps
IEEE 802.11n (HT20)	1000	1000	1000	HT 0
IEEE 802.11ac (VHT20)	1000	1000	1000	MCS 0
Mode	5510 MHz	5550 MHz	5670 MHz	Data Rate
IEEE 802.11n (HT40)	1000	1000	1000	HT 0
IEEE 802.11ac (VHT40)	1000	1000	1000	MCS 0
Mode	5530 MHz	5610 MHz		Data Rate
IEEE 802.11ac (VHT80)	1000			MCS 0

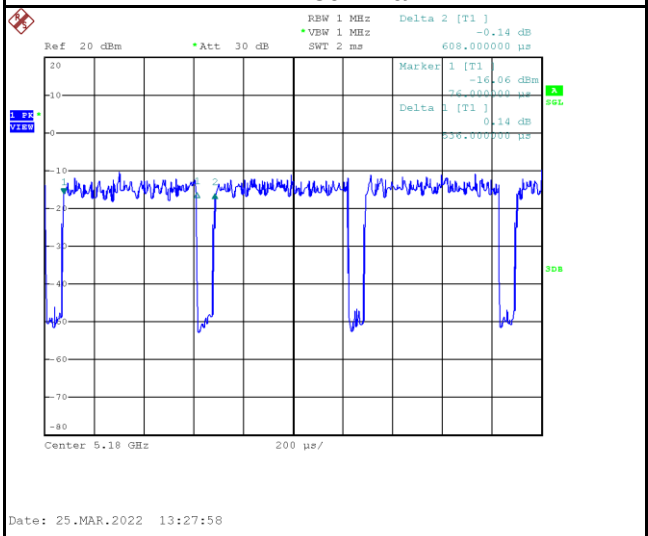
UNII-3				
Test Software	Putty Release 0.62			
Mode	5745 MHz	5785 MHz	5825 MHz	Data Rate
IEEE 802.11a	1000	1000	1000	6 Mbps
IEEE 802.11n (HT20)	1000	1000	1000	HT 0
IEEE 802.11ac (VHT20)	1000	1000	1000	MCS 0
Mode	5755 MHz	5795 MHz		Data Rate
IEEE 802.11n (HT40)	1000	1000		HT 0
IEEE 802.11ac (VHT40)	1000	1000		MCS 0
Mode	5775 MHz			Data Rate
IEEE 802.11ac (VHT80)	1000			MCS 0

1.5 DUTY CYCLE

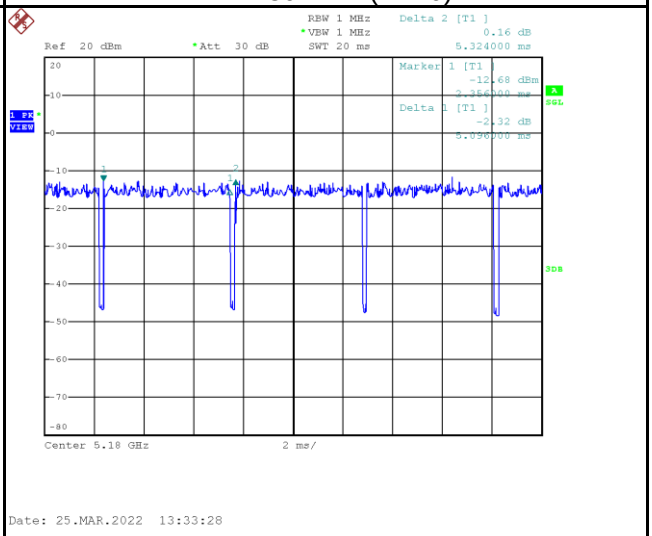
If duty cycle is ≥ 98 %, duty factor is not required.
If duty cycle is < 98 %, duty factor shall be considered.

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	0.536	1	0.536	0.608	88.16%	0.55
IEEE 802.11n (HT20)	5.096	1	5.096	5.324	95.72%	0.19
IEEE 802.11n (HT40)	4.920	1	4.920	5.320	92.48%	0.34
IEEE 802.11ac (VHT20)	5.120	1	5.120	5.320	96.24%	0.17
IEEE 802.11ac (VHT40)	4.960	1	4.960	5.200	95.38%	0.21
IEEE 802.11ac (VHT80)	4.880	1	4.880	5.080	96.06%	0.17

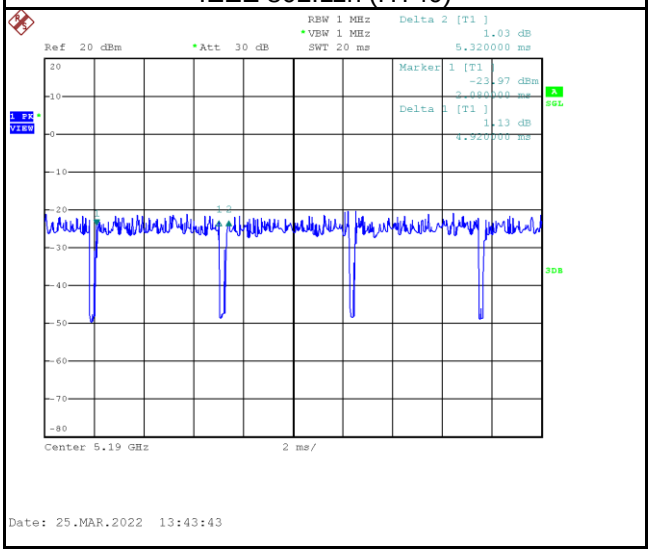
IEEE 802.11a



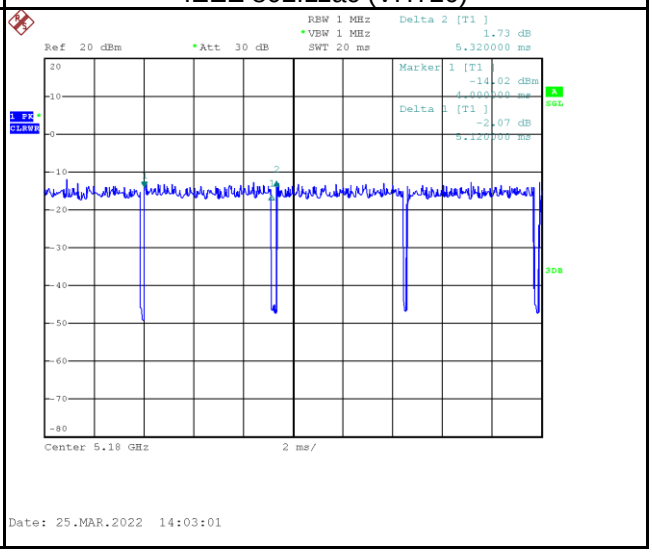
IEEE 802.11n (HT20)

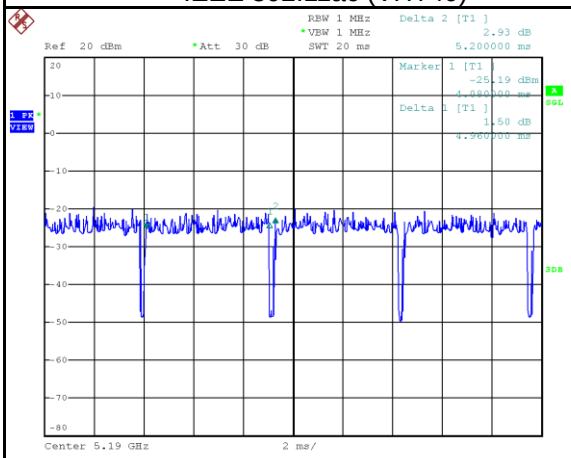
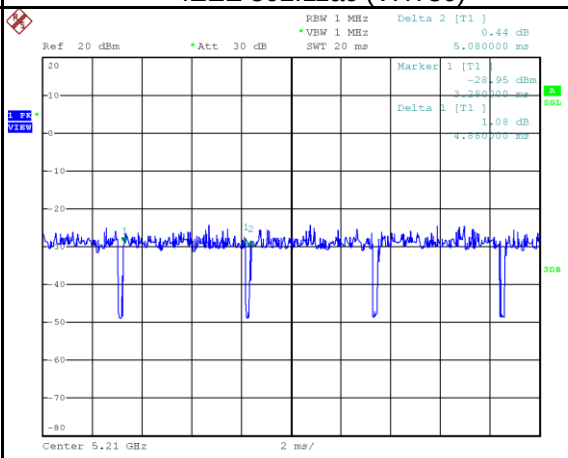


IEEE 802.11n (HT40)



IEEE 802.11ac (VHT20)



IEEE 802.11ac (VHT40)	IEEE 802.11ac (VHT80)
	
Date: 25.MAR.2022 13:57:39	Date: 25.MAR.2022 13:48:40

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Ethernet Device
Model Name	EKI-1362-CE, EKI-1361-CE, EKI-6233BN, EKI-136X-CE, EKI-136X-MB-CE, EKI136XXXXXX, EKI-136X-CXXXXXXX, EKI-6233XXXXXXX (where “X” may be any alphanumeric character , blank or “-”.)
Brand Name	ADVANTECH
Model Difference	Different model are due to marketing purpose and COM port quantity difference.
Power Source	DC Voltage supplied from DC power supply.
Power Rating	DC 12-48V
Products Covered	1 * CPU: Microchip Technology / SAM9X60T-V/DWB, 600MHZ 1 * Mother Board: ADVANTECH / EKI-1362-CE 1 * Memory: DDR2-800M 1Gb 1 * WLAN Module: Azure Wave / AW-CM276NF 2 * Antenna: Cortec / AN2450-92K01BRS
Operation Band	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 5240 MHz UNII-2A: 5260 MHz to 5320 MHz UNII-2C: 5500 MHz to 5700 MHz UNII-3: 5745 MHz to 5825 MHz
Modulation Technology	OFDM
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6 Mbps 802.11n: Up to 300 Mbps 802.11ac: Up to 866.7 Mbps
Output Power Max. for UNII-1	IEEE 802.11a: 16.71 dBm (0.0468 W) IEEE 802.11n (HT20): 16.98 dBm (0.0499 W) IEEE 802.11n (HT40): 16.80 dBm (0.0479 W) IEEE 802.11ac (VHT20): 16.84 dBm (0.0483 W) IEEE 802.11ac (VHT40): 16.66 dBm (0.0463 W) IEEE 802.11ac (VHT80): 13.13 dBm (0.0205 W)
Output Power Max. for UNII-2A	IEEE 802.11a: 16.82 dBm (0.0480 W) IEEE 802.11n (HT20): 17.12 dBm (0.0515 W) IEEE 802.11n (HT40): 17.11 dBm (0.0515 W) IEEE 802.11ac (VHT20): 16.97 dBm (0.0498 W) IEEE 802.11ac (VHT40): 16.94 dBm (0.0495 W) IEEE 802.11ac (VHT80): 15.28 dBm (0.0337 W)
Output Power Max. for UNII-2C	IEEE 802.11a: 16.43 dBm (0.0440 W) IEEE 802.11n (HT20): 16.70 dBm (0.0468 W) IEEE 802.11n (HT40): 16.84 dBm (0.0483 W) IEEE 802.11ac (VHT20): 16.54 dBm (0.0451 W) IEEE 802.11ac (VHT40): 16.70 dBm (0.0468W) IEEE 802.11ac (VHT80): 14.62 dBm (0.0289 W)
Output Power Max. for UNII-3	IEEE 802.11a: 13.83 dBm (0.0242 W) IEEE 802.11n (HT20): 11.93 dBm (0.0156 W) IEEE 802.11n (HT40): 12.81 dBm (0.0191 W) IEEE 802.11ac (VHT20): 11.83 dBm (0.0152 W) IEEE 802.11ac (VHT40): 12.72 dBm (0.0187 W) IEEE 802.11ac (VHT80): 9.36 dBm (0.0086 W)
Test Model	EKI-1362-CE, EKI-1361-CE, EKI-6233BN
Sample Status	Engineering Sample
EUT Modification(s)	N/A

NOTE:

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

(2) Channel List:

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
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 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
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 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
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 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
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:

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

Note:

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

(2) For Power Spectral Density

Directional Gain = 10*log{[10^(G1/20)+10^(G2/20)+…+10^(Gn/20)]^2/NANT} = 8.02 dBi > 6dBi

To UNII-1, the reduced power spectral density limits (dBm/MHz) = 11 - (8.02 - 6) = 8.98.

To UNII-2A and UNII-2C, the reduced power spectral density limits (dBm/MHz) = 11 - (8.02 - 6) = 8.98.

To UNII-3, the reduced power spectral density limits (dBm/MHz) = 30 - (8.02 - 6) = 27.98.

For Conducted Output Power

For N_{ANT} = 2 < 5,

Direction gain = G_{ANT} + 0 = 5.01 + 0 = 5.01 dBi .

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

(4) Operating Mode and Antenna Configuration

TX Mode / Operating 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)

2.2 TEST MODES

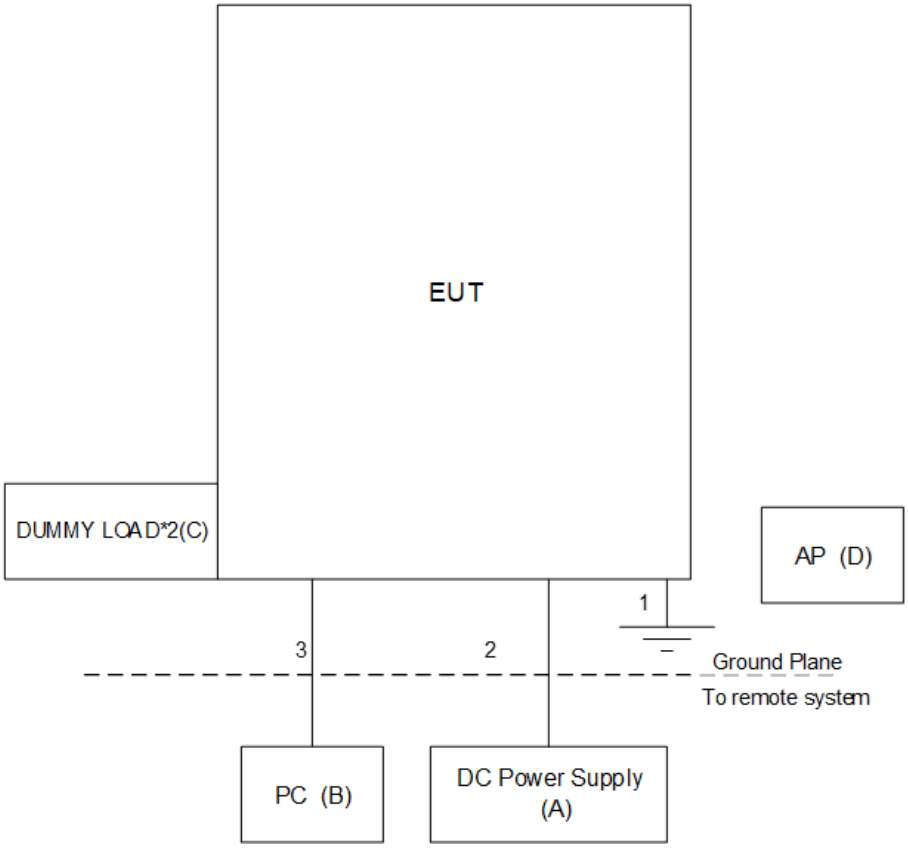
Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal	-	-
Transmitter Radiated Emissions (below 1GHz)	TX Mode_IEEE 802.11n (HT20)	100	NOTE (3)
Transmitter Radiated Emissions (above 1GHz)	TX Mode_IEEE 802.11a	36/48, 52/64 100/140, 149/165	Bandedge
	TX Mode_IEEE 802.11n (HT20)		
	TX Mode_IEEE 802.11n (HT40)	38/46, 54/62 102/134, 151/159	
	TX Mode_IEEE 802.11ac (VHT80)	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 802.11n (HT40)	38/46/ 54/62 102/110/134 151/159	
	TX Mode_IEEE 802.11ac (VHT80)	42, 58 106/122, 155	
Bandwidth & 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 802.11n (HT40)	38/46 54/62 102/110/134 151/159	
	TX Mode_IEEE 802.11ac (VHT80)	42, 58 106/122, 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 802.11n (HT40) TX Mode_IEEE 802.11ac (VHT40)	38/46/ 54/62 102/110/134 151/159	
	TX Mode_IEEE 802.11ac (VHT80)	42, 58 106/122, 155	

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

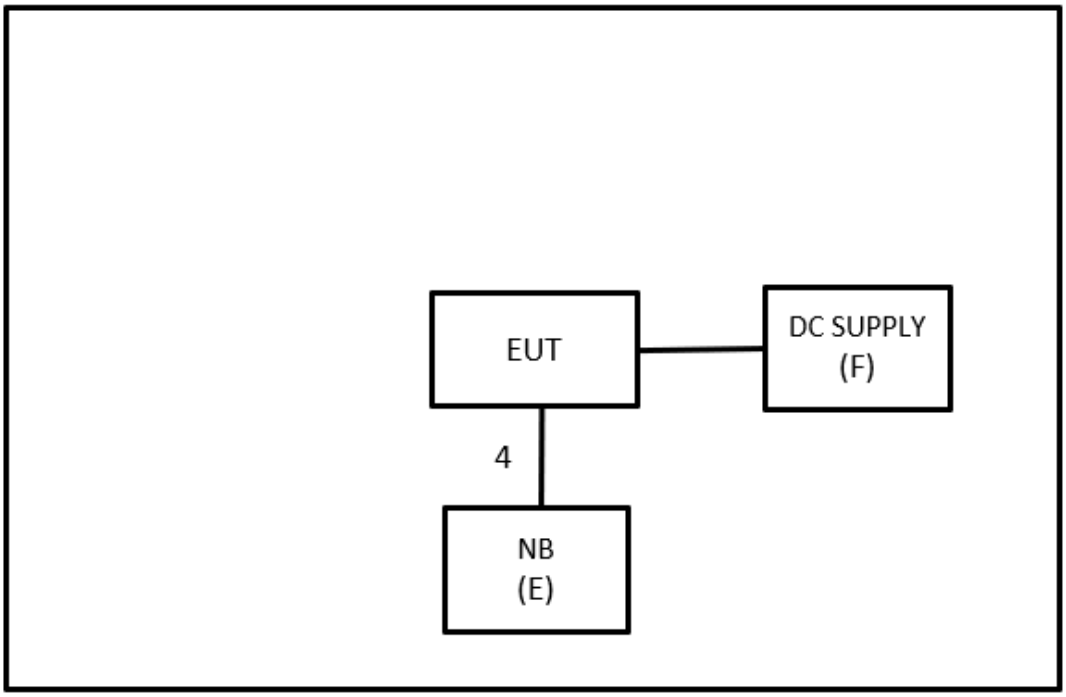
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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

AC power line conducted emissions



Radiated Emissions



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	DC Power Supply	IDRC	DSP-080-019HD	342947	Furnished by test lab.
B	PC	DELL	OptiPlex 7040	611WJA00	Furnished by test lab.
C	Dummy Load	N/A	N/A	N/A	Furnished by test lab.
D	Router	ASUS	RT-AC66U	E11TGG000235	Furnished by test lab.
E	NB	ACER	TMP446-M50L4	N/A	Furnished by test lab.
F	DC Power Supply	TWINTEX	TPS-6015	N/A	Furnished by test lab.

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

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

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

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

Reading Level		Correct Factor		Measurement Value
38.22	+	3.45	=	41.67

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

The following table is the setting of the receiver.

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

3.2 TEST PROCEDURE

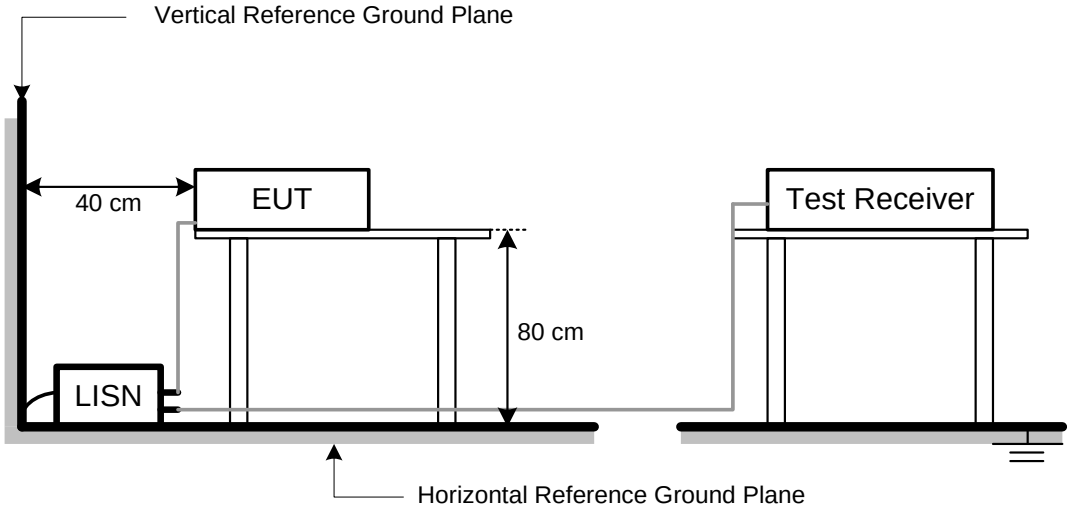
a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
All other support equipment were powered from an additional LISN(s).
The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.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

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

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.

4 RADIATED EMISSIONS TEST

4.1 LIMIT

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

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

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

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

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

NOTE:

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

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

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

(3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value
Calculation example:

Reading Level		Correct Factor		Measurement Value
36.23	+	-11.97	=	24.26

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average

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

4.2 TEST PROCEDURE

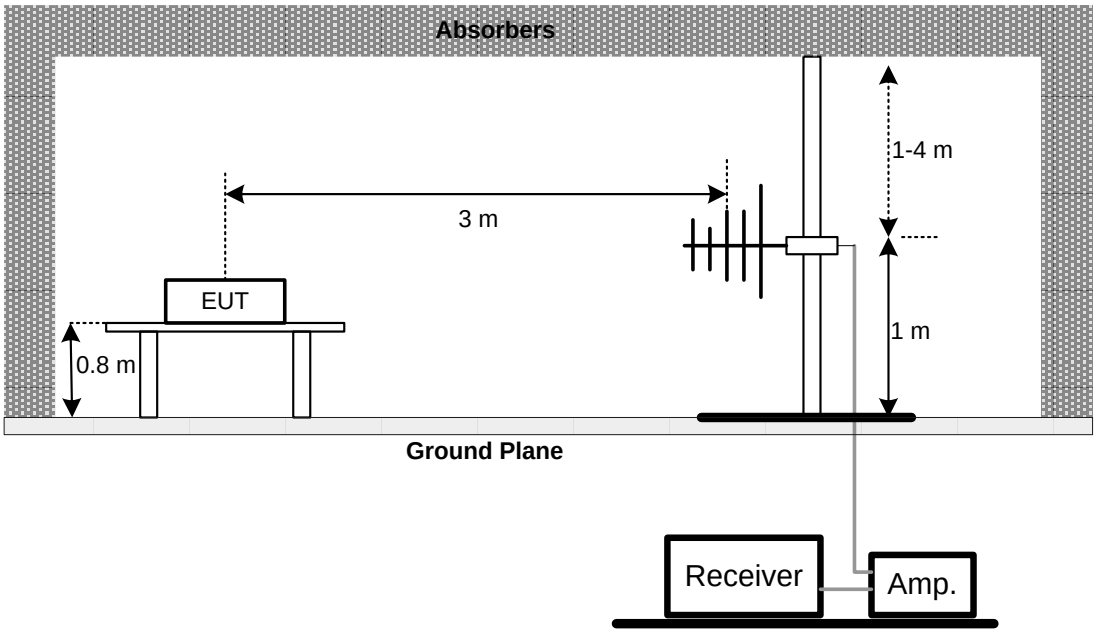
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform. (below 1GHz)
h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn‘t perform. (above 1GHz)
i. For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

4.3 DEVIATION FROM TEST STANDARD

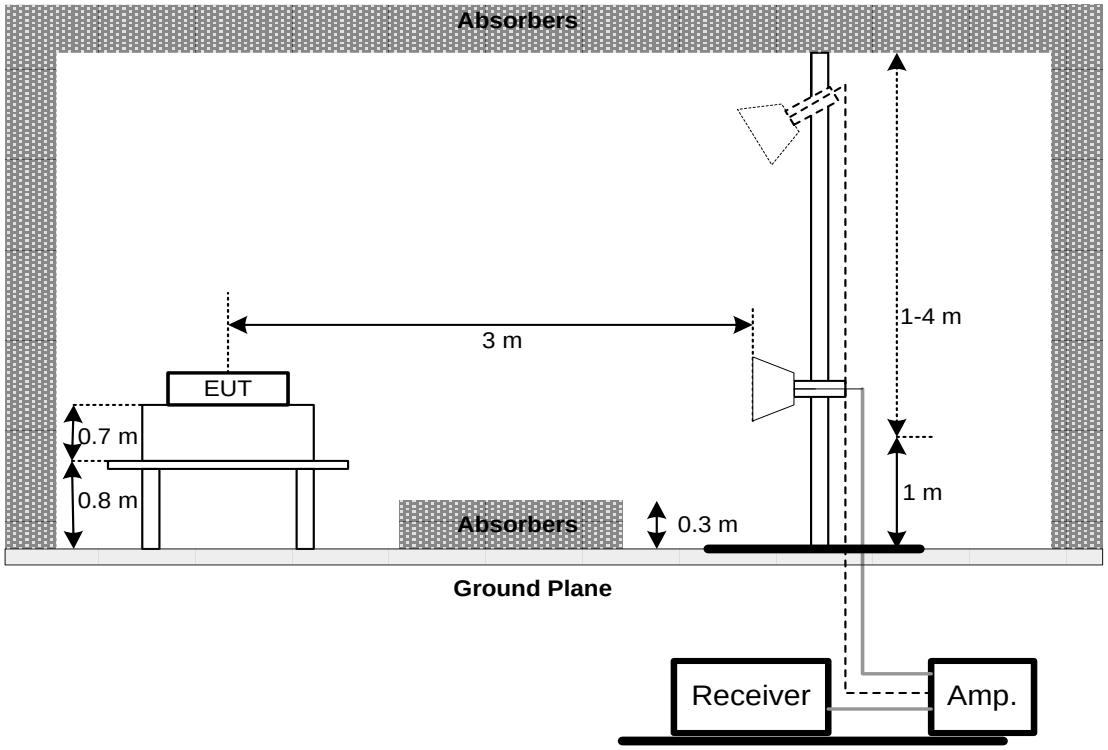
No deviation.

4.4 TEST SETUP

30 MHz to 1 GHz



Above 1 GHz



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT – BELOW 30 MHZ

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

4.7 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX B.

4.8 TEST RESULT – ABOVE 1 GHZ

Please refer to the APPENDIX C.

NOTE:

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

5 BANDWIDTH TEST

5.1 LIMIT

FCC Part15, Subpart E (15.407)		
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
Attenuation	Auto
Span Frequency	> 26 dB Bandwidth
RBW	300 kHz(Bandwidth 20 MHz) 1 MHz(Bandwidth 40 MHz and 80 MHz)
VBW	1 MHz(Bandwidth 20 MHz) 3 MHz(Bandwidth 40 MHz and 80 MHz)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 TEST SETUP

5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT

Please refer to the APPENDIX D.

6 OUTPUT POWER TEST

6.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Maximum Output Power	Fixed:1 Watt (30 dBm) Mobile and portable: 250 mW (24 dBm)	5150-5250
		250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz	5250-5350
			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

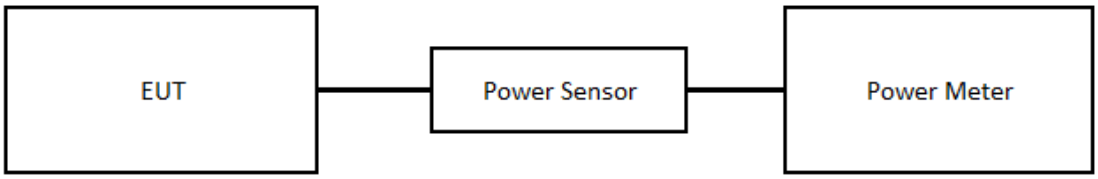
a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.

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

6.3 DEVIATION FROM TEST STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULT

Please refer to the APPENDIX E.

7 POWER SPECTRAL DENSITY

7.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Power Spectral Density	Other than Mobile and portable: 17 dBm/MHz Mobile and portable: 11 dBm/MHz	5150-5250
		11 dBm/MHz	5250-5350
			5470-5725
		30 dBm/500 kHz	5725-5850

7.2 TEST PROCEDURE

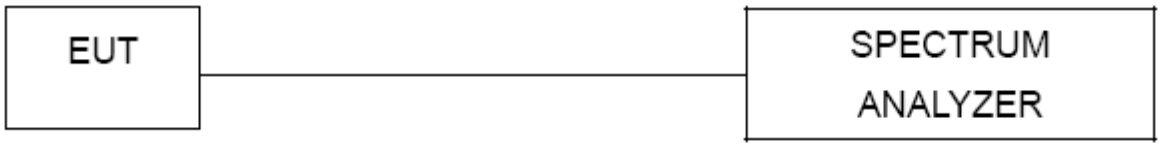
a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
b. Spectrum Setting:

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

7.3 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	101050	2021/6/10	2022/6/9
2	Test Cable	EMCI	EMCCFD400-NM -NM-5000	151209	2021/12/17	2022/12/16
3	EMI Test Receiver	R&S	ESR	101854	2021/12/6	2022/12/5
4	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC02325	980217	2021/4/8	2022/4/7
2	Preamplifier	EMCI	EMC012645B	980222	2021/4/8	2022/4/7
3	Preamplifier	EMCI	EMC184045SE	980512	2021/5/28	2022/5/27
4	Preamplifier	EMCI	EMC001340	980555	2021/4/8	2022/4/7
5	Test Cable	EMCI	EMC104-SM-100 0	180809	2021/4/8	2022/4/7
6	Test Cable	EMCI	EMC104-SM-SM-3000	151205	2021/4/8	2022/4/7
7	Test Cable	EMCI	EMC-SM-SM-700 0	180408	2021/4/8	2022/4/7
8	MXE EMI Receiver	Agilent	N9038A	MY56400087	2021/5/27	2022/5/26
9	Signal Analyzer	Agilent	N9010A	MY56480554	2021/8/25	2022/8/24
10	Loop Ant	Electro-Metrics	EMCI-LPA600	274	2021/6/1	2022/5/31
11	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	2021/6/2	2022/6/1
12	Horn Ant	Schwarzbeck	BBHA 9170	340	2021/7/9	2022/7/8
13	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-352	2021/8/11	2022/8/10
14	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0625	2021/8/11	2022/8/10
15	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

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

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC02325	980217	2022/4/6	2023/4/5
2	Test Cable	EMCI	EMC104-SM-1000	180809	2022/4/6	2023/4/5
3	Test Cable	EMCI	EMC104-SM-SM-2500	160413	2022/4/6	2023/4/5
4	Test Cable	EMCI	EMC-SM-SM-7000	180408	2022/4/6	2023/4/5
5	MXE EMI Receiver	Agilent	N9038A	MY56400087	2022/6/2	2023/6/1
6	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-352	2021/8/11	2022/8/10
7	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0625	2021/8/11	2022/8/10
8	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

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

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

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

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

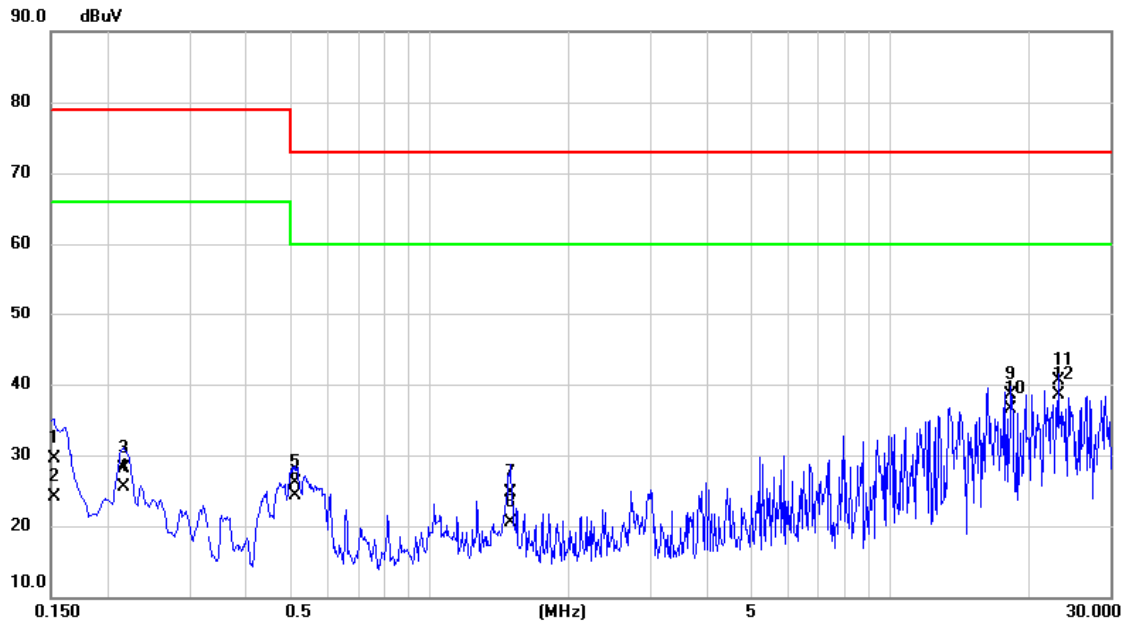
Please refer to document Appendix No.: TP-2112T115-FCCP-1 (APPENDIX-TEST PHOTOS).

10 EUT PHOTOS

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

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

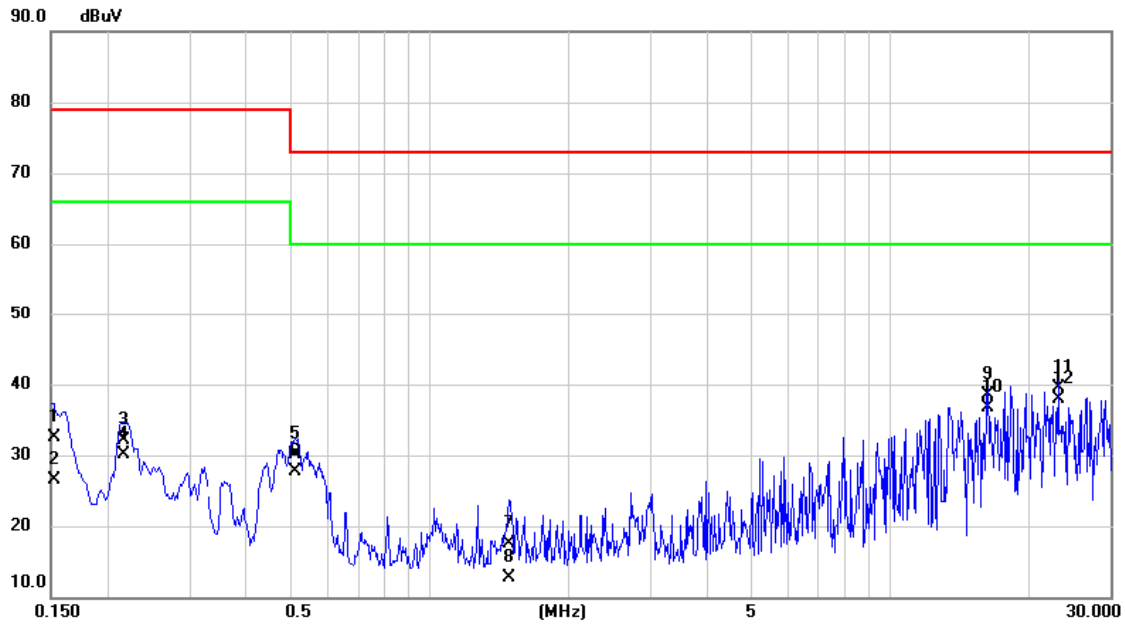
Test Mode	Normal	Tested Date	2022/1/26
Test Frequency	-	Phase	Line



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

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

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

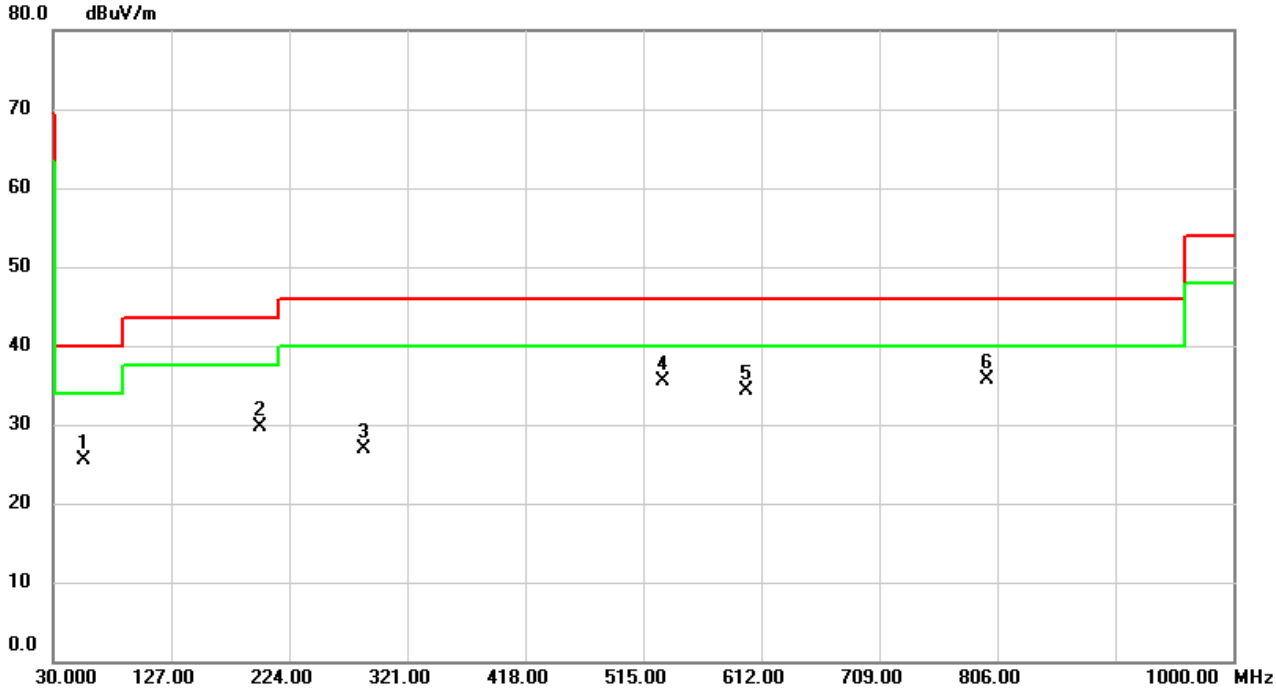


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1522	22.80	9.62	32.42	79.00	-46.58	QP	
2		0.1522	16.90	9.62	26.52	66.00	-39.48	AVG	
3		0.2153	22.50	9.62	32.12	79.00	-46.88	QP	
4		0.2153	20.50	9.62	30.12	66.00	-35.88	AVG	
5		0.5122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

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

APPENDIX B RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

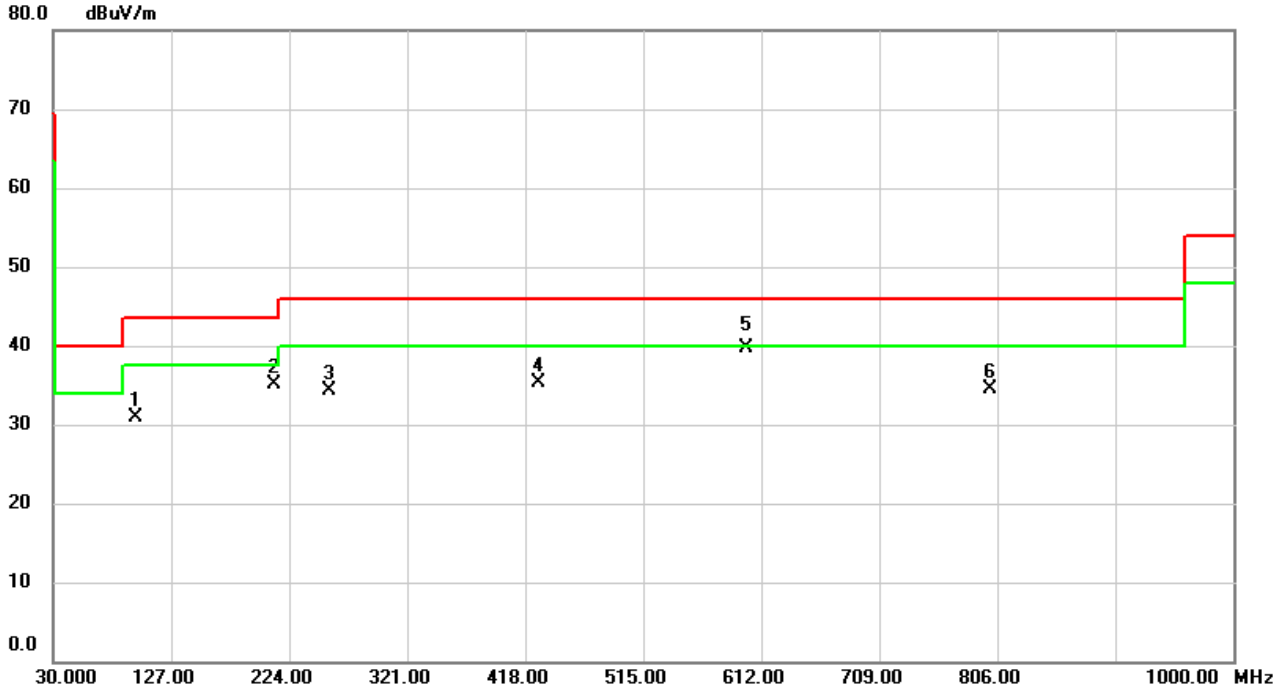
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/24
Test Frequency	5500MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		55.3170	34.53	-9.06	25.47	40.00	-14.53	peak	
2		200.0087	41.91	-12.12	29.79	43.50	-13.71	peak	
3		285.7243	35.49	-8.60	26.89	46.00	-19.11	peak	
4		531.2960	38.50	-3.02	35.48	46.00	-10.52	peak	
5		600.0367	35.27	-1.06	34.21	46.00	-11.79	peak	
6	*	797.1730	33.70	1.91	35.61	46.00	-10.39	peak	

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/24
Test Frequency	5500MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%

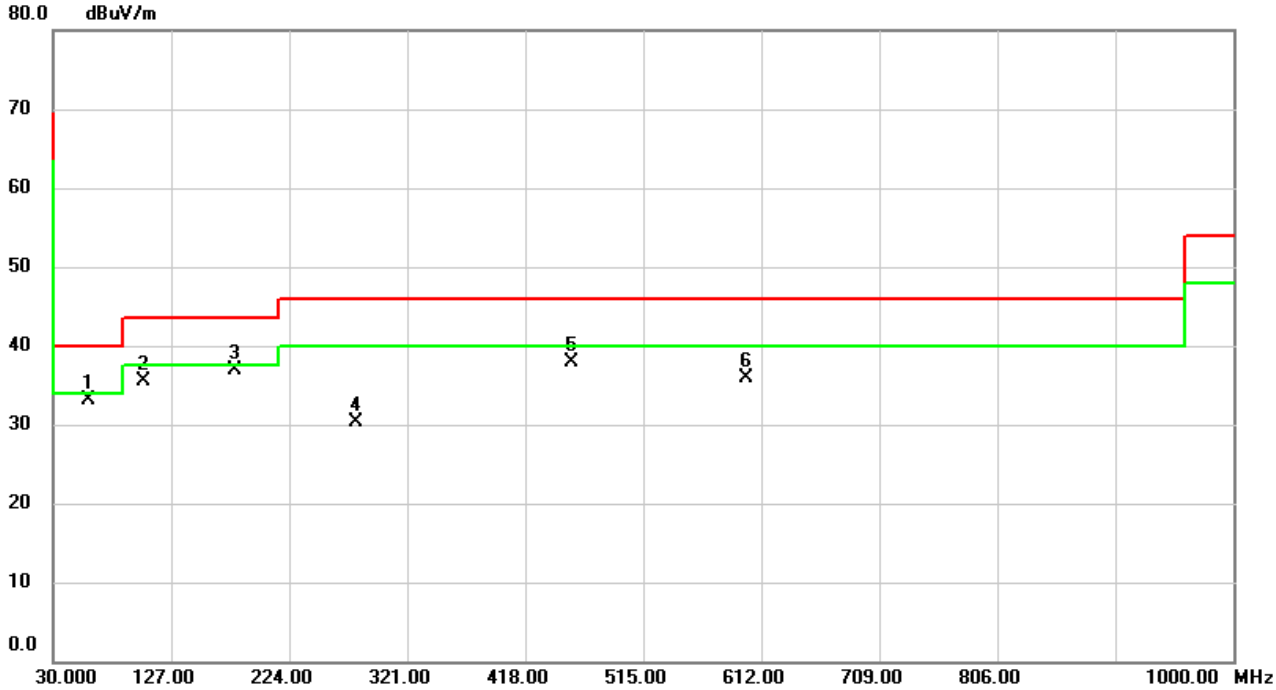


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		98.4496	44.77	-13.95	30.82	43.50	-12.68	peak	
2		211.6486	47.23	-12.05	35.18	43.50	-8.32	peak	
3		257.1740	44.28	-9.98	34.30	46.00	-11.70	peak	
4		428.5730	40.29	-5.03	35.26	46.00	-10.74	peak	
5	*	600.0043	40.74	-1.06	39.68	46.00	-6.32	QP	
6		799.9860	32.55	1.94	34.49	46.00	-11.51	peak	

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

For EKI-1361-CE:

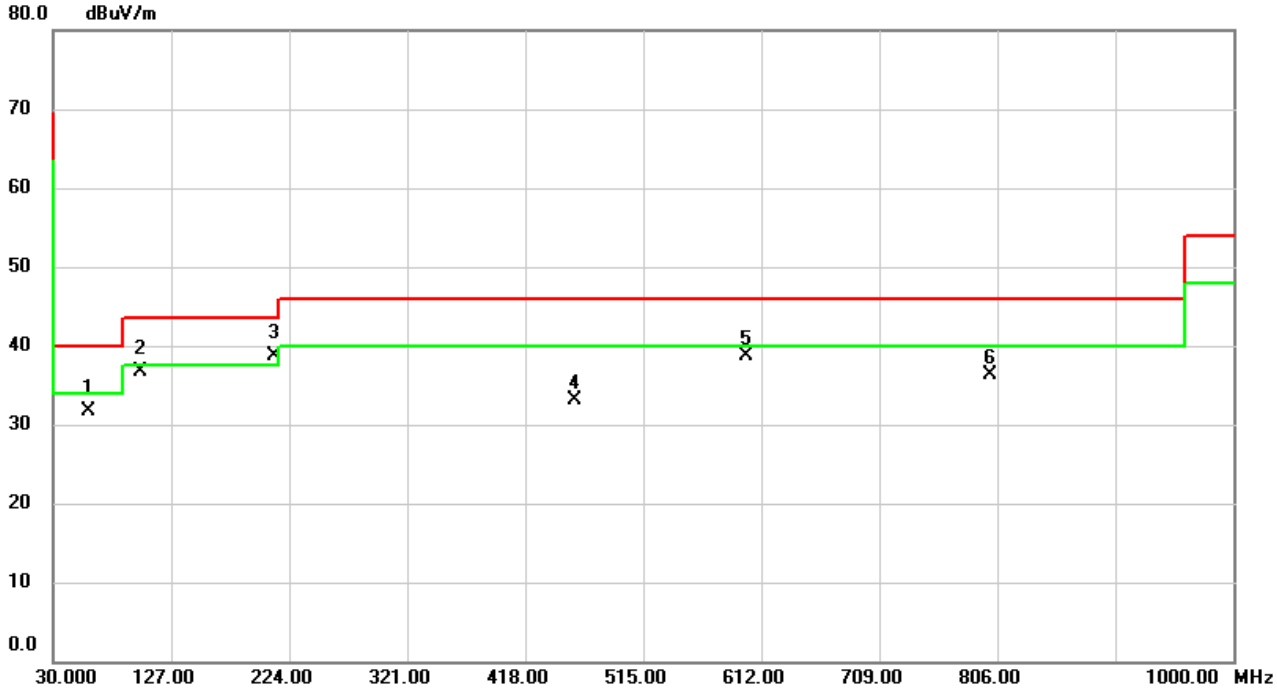
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/6/6
Test Frequency	5500MHz	Polarization	Vertical
Temp	22°C	Hum.	51%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		58.7120	42.70	-9.60	33.10	40.00	-6.90	peak	
2		104.7547	48.71	-13.20	35.51	43.50	-7.99	peak	
3	*	179.1213	47.31	-10.35	36.96	43.50	-6.54	peak	
4		279.3870	39.01	-8.73	30.28	46.00	-15.72	peak	
5		456.4443	41.88	-3.97	37.91	46.00	-8.09	peak	
6		600.1013	37.22	-1.24	35.98	46.00	-10.02	peak	

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/6/6
Test Frequency	5500MHz	Polarization	Horizontal
Temp	22°C	Hum.	51%

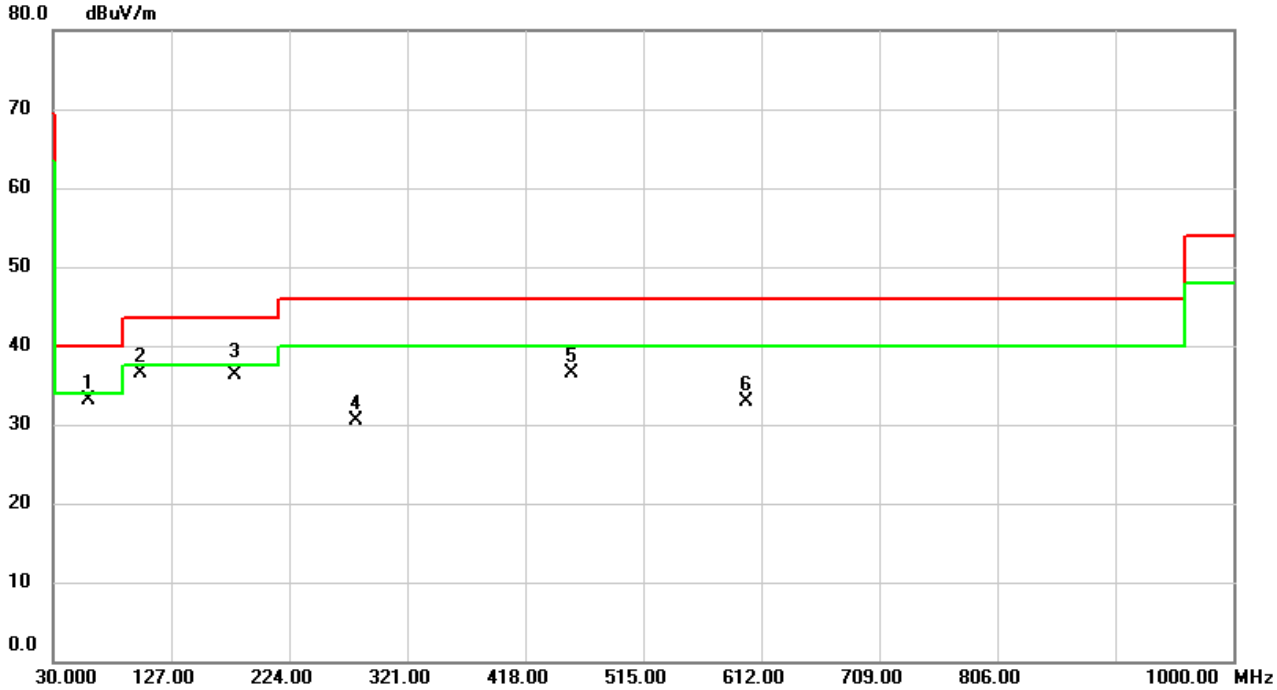


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		58.7120	41.29	-9.60	31.69	40.00	-8.31	QP	
2		101.9093	50.40	-13.74	36.66	43.50	-6.84	QP	
3	*	211.6810	50.66	-12.00	38.66	43.50	-4.84	QP	
4		458.4813	37.11	-3.93	33.18	46.00	-12.82	peak	
5		600.0366	39.98	-1.24	38.74	46.00	-7.26	peak	
6		799.9860	34.34	2.02	36.36	46.00	-9.64	peak	

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

For EKI-6233BN:

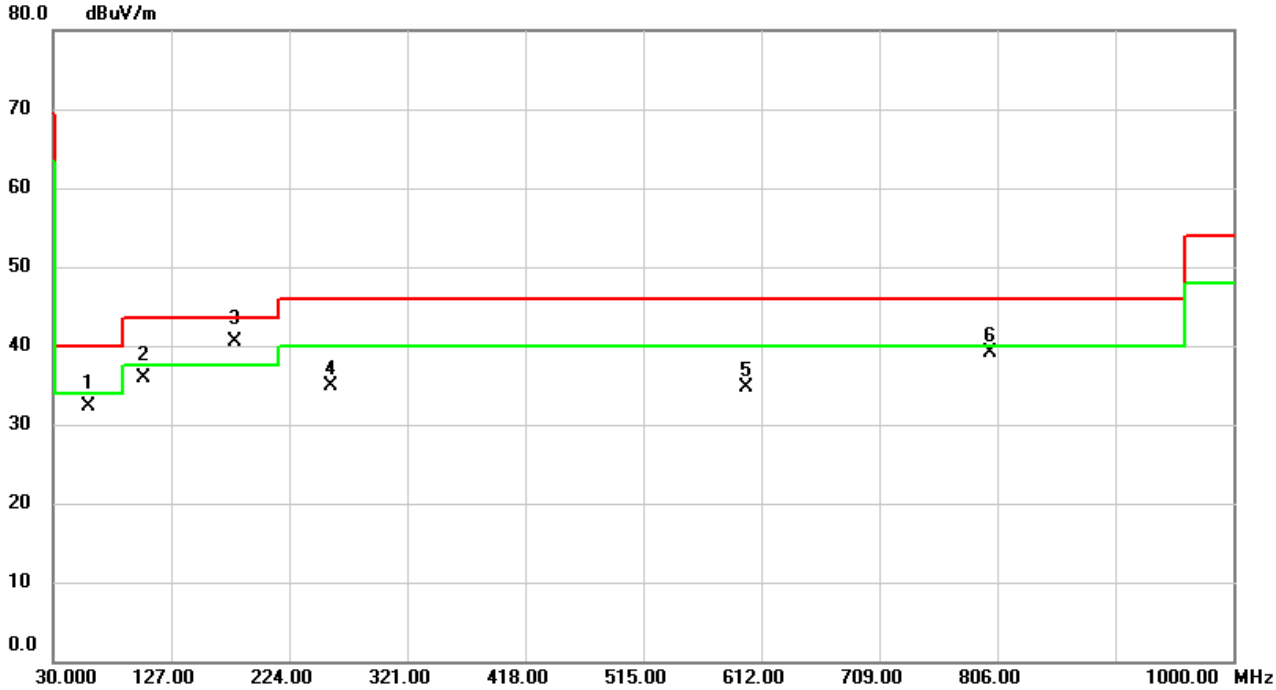
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/6/6
Test Frequency	5500MHz	Polarization	Vertical
Temp	22°C	Hum.	51%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	58.7443	42.62	-9.60	33.02	40.00	-6.98	peak	
2		101.9093	50.24	-13.74	36.50	43.50	-7.00	peak	
3		179.5093	46.63	-10.39	36.24	43.50	-7.26	QP	
4		279.1607	39.24	-8.74	30.50	46.00	-15.50	peak	
5		456.5413	40.45	-3.97	36.48	46.00	-9.52	peak	
6		600.0043	34.06	-1.24	32.82	46.00	-13.18	peak	

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/6/6
Test Frequency	5500MHz	Polarization	Horizontal
Temp	22°C	Hum.	51%

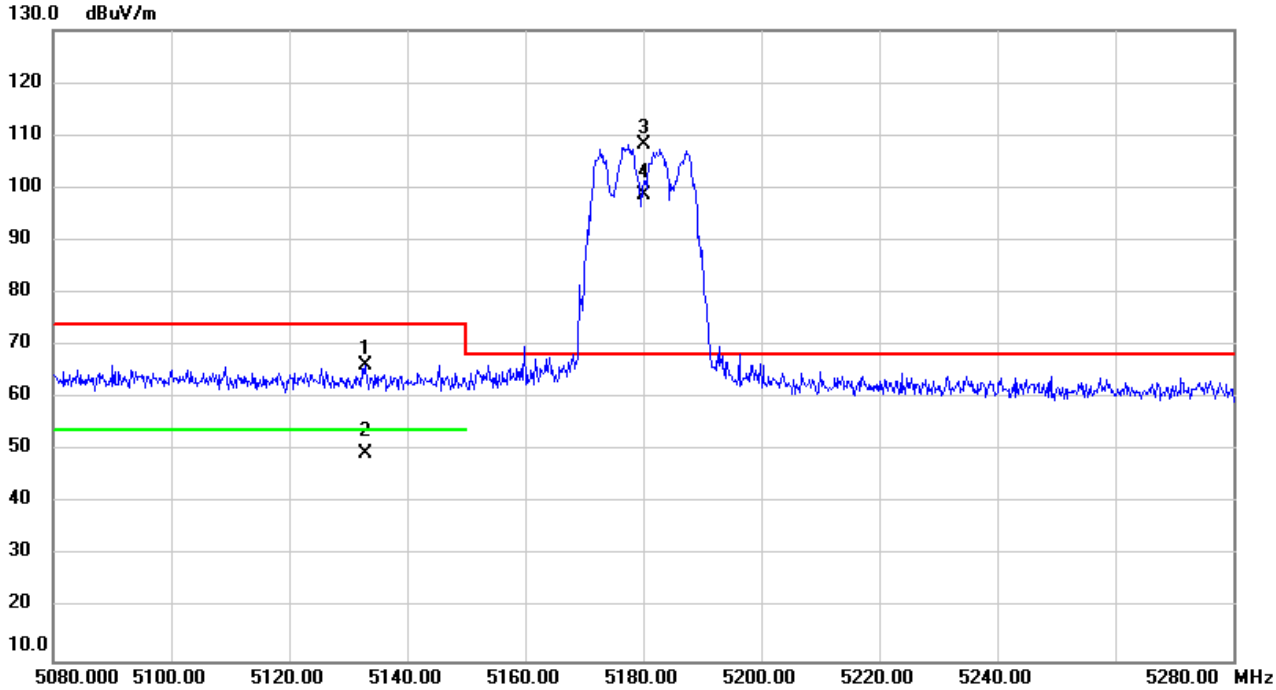


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		58.7120	41.87	-9.60	32.27	40.00	-7.73	QP	
2		104.7546	49.02	-13.20	35.82	43.50	-7.68	QP	
3	*	179.5416	50.91	-10.39	40.52	43.50	-2.98	QP	
4		258.6290	44.71	-9.83	34.88	46.00	-11.12	peak	
5		600.0366	36.02	-1.24	34.78	46.00	-11.22	peak	
6		800.0183	37.07	2.02	39.09	46.00	-6.91	peak	

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

APPENDIX C RADIATED EMISSIONS - ABOVE 1 GHZ

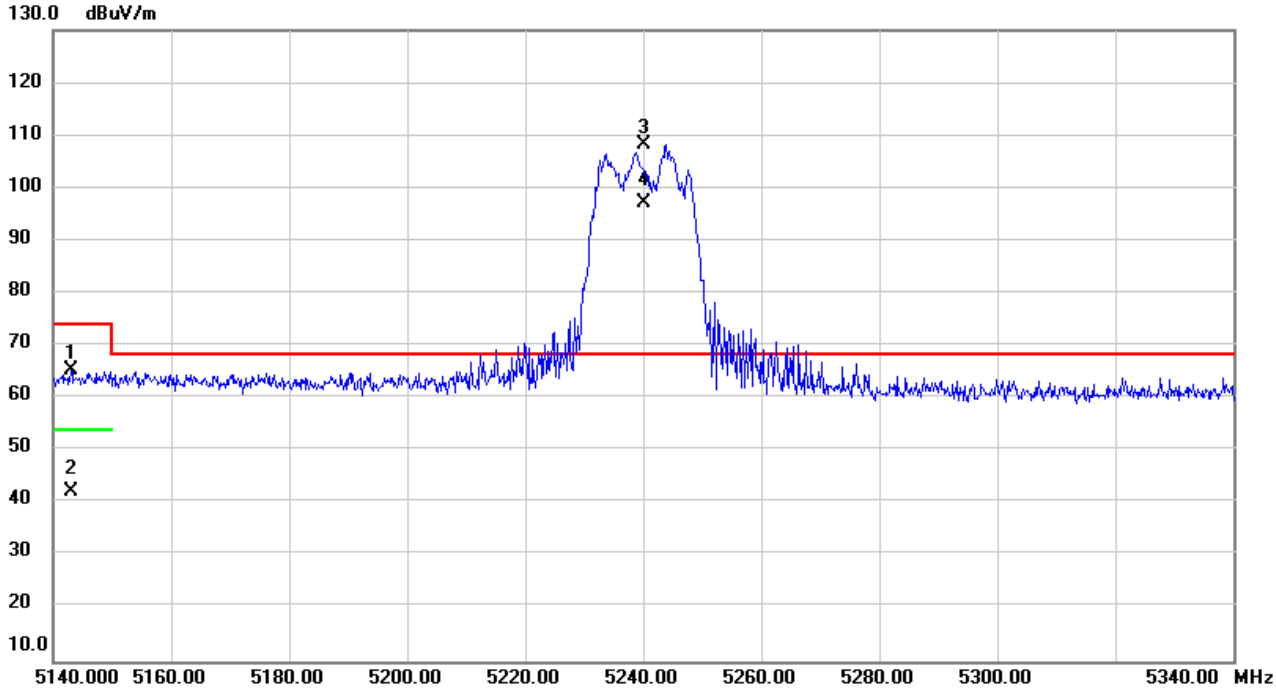
Test Mode	IEEE 802.11a	Test Date	2022/2/9
Test Frequency	5180MHz	Polarization	Horizontal
Temp	20°C	Hum.	61%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5132.807	29.04	37.32	66.36	74.00	-7.64	peak	
2		5132.807	12.15	37.32	49.47	54.00	-4.53	AVG	
3	*	5180.000	70.97	37.38	108.35	68.20	40.15	peak	NoLimit
4	X	5180.000	61.26	37.38	98.64	68.20	30.44	AVG	NoLimit

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

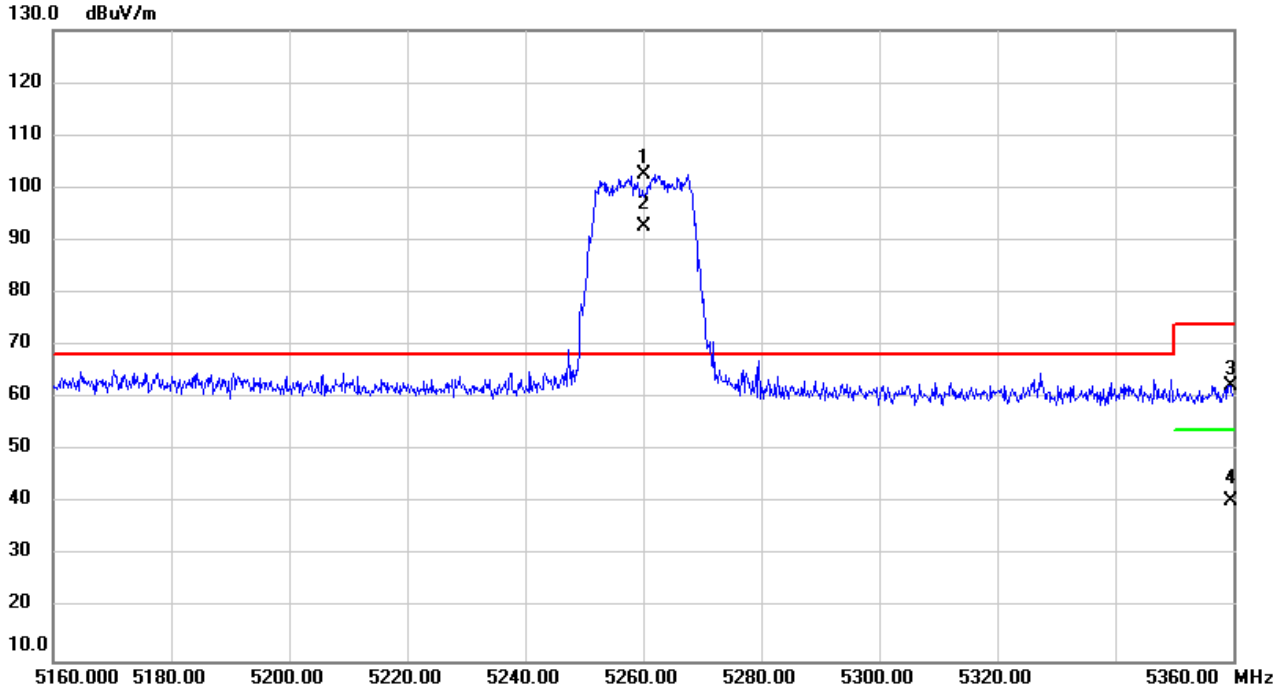
Test Mode	IEEE 802.11a	Test Date	2022/2/9
Test Frequency	5240MHz	Polarization	Horizontal
Temp	20°C	Hum.	61%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5143.187	27.98	37.33	65.31	74.00	-8.69	peak	
2		5143.187	4.80	37.33	42.13	54.00	-11.87	AVG	
3	*	5240.000	70.73	37.46	108.19	68.20	39.99	peak	NoLimit
4	X	5240.000	59.76	37.46	97.22	68.20	29.02	AVG	NoLimit

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

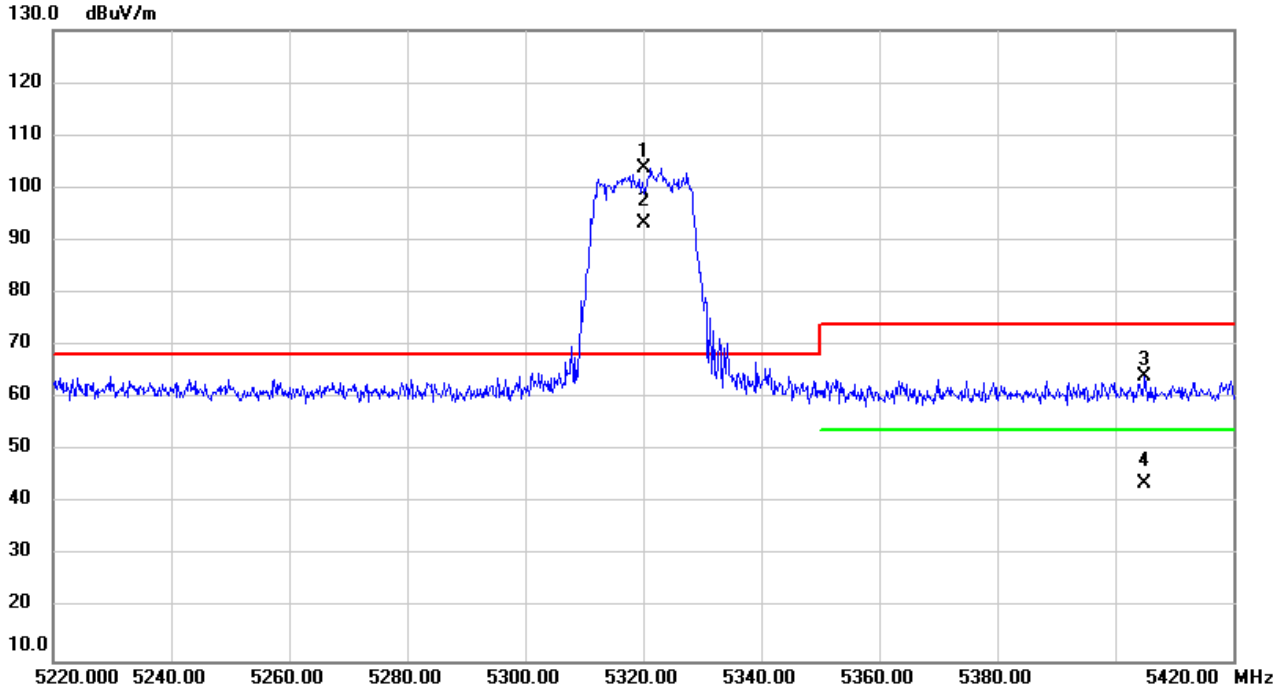
Test Mode	IEEE 802.11a	Test Date	2022/2/10
Test Frequency	5260MHz	Polarization	Horizontal
Temp	20°C	Hum.	61%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5260.000	65.14	37.49	102.63	68.20	34.43	peak	NoLimit
2	X	5260.000	55.30	37.49	92.79	68.20	24.59	AVG	NoLimit
3		5359.587	24.85	37.62	62.47	74.00	-11.53	peak	
4		5359.587	2.73	37.62	40.35	54.00	-13.65	AVG	

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

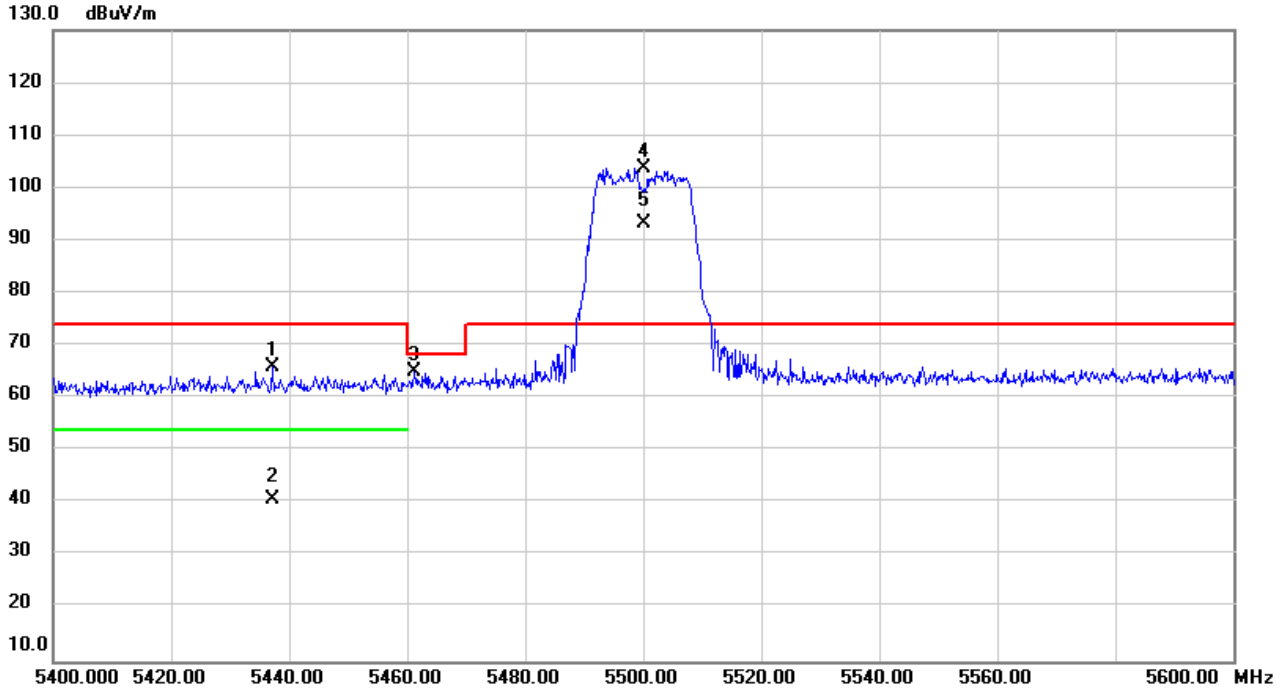
Test Mode	IEEE 802.11a	Test Date	2022/2/10
Test Frequency	5320MHz	Polarization	Horizontal
Temp	20°C	Hum.	61%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5320.000	66.24	37.57	103.81	68.20	35.61	peak	NoLimit
2	X	5320.000	55.60	37.57	93.17	68.20	24.97	AVG	NoLimit
3		5405.013	26.40	37.68	64.08	74.00	-9.92	peak	
4		5405.013	5.99	37.68	43.67	54.00	-10.33	AVG	

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

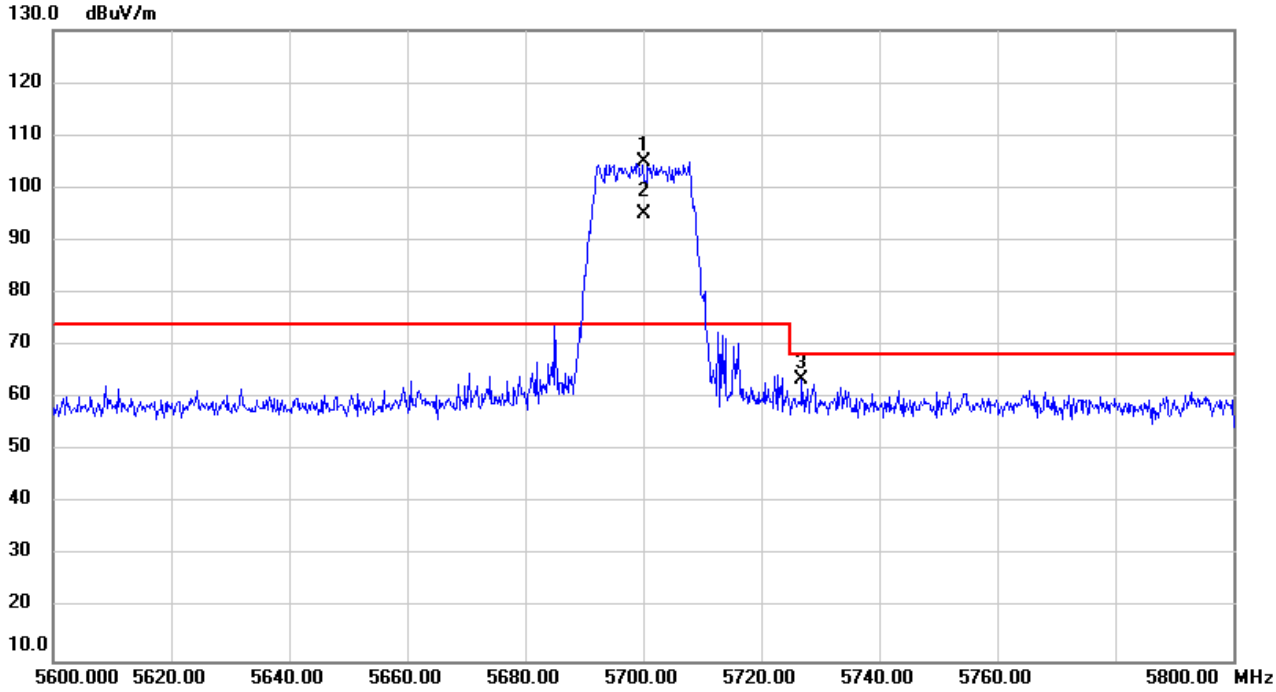
Test Mode	IEEE 802.11a	Test Date	2022/2/10
Test Frequency	5500MHz	Polarization	Horizontal
Temp	20°C	Hum.	61%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5437.187	28.23	37.73	65.96	74.00	-8.04	peak	
2		5437.187	2.90	37.73	40.63	54.00	-13.37	AVG	
3		5461.320	27.15	37.76	64.91	68.20	-3.29	peak	
4	*	5500.000	65.96	37.81	103.77	74.00	29.77	peak	NoLimit
5	X	5500.000	55.53	37.81	93.34	74.00	19.34	AVG	NoLimit

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

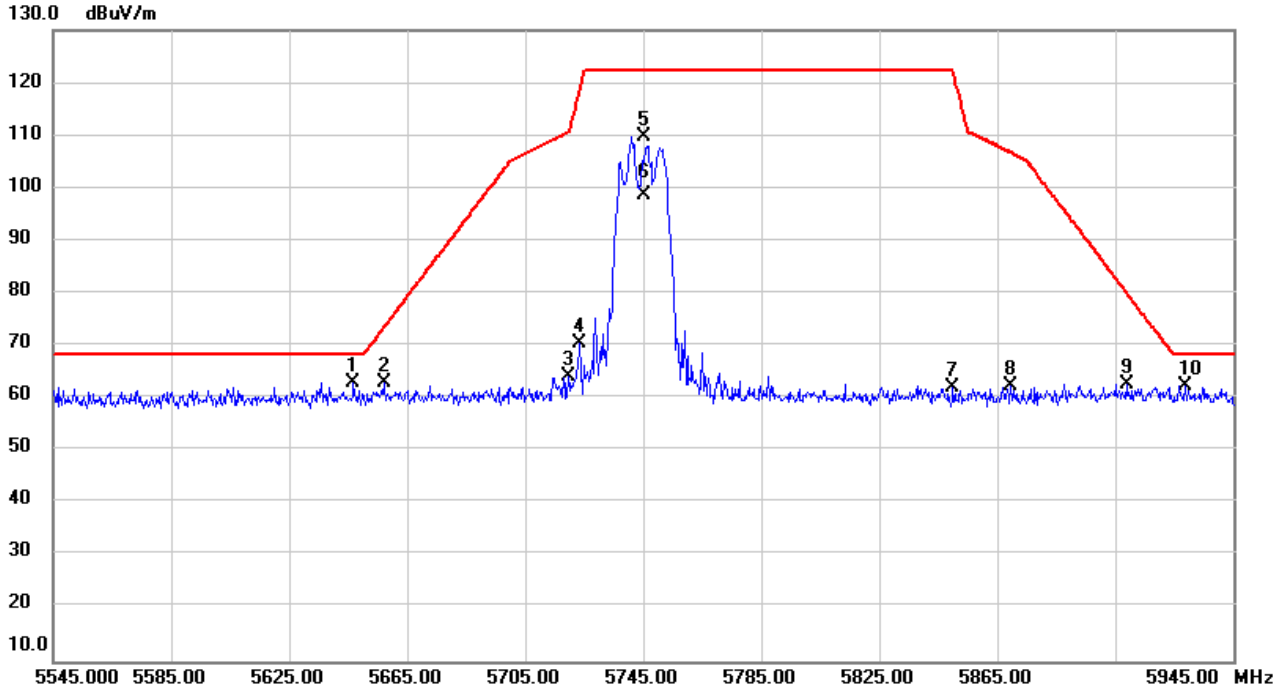
Test Mode	IEEE 802.11a	Test Date	2022/2/10
Test Frequency	5700MHz	Polarization	Horizontal
Temp	20°C	Hum.	61%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5700.000	66.74	38.26	105.00	74.00	31.00	peak	
2	X	5700.000	56.87	38.26	95.13	74.00	21.13	AVG	
3		5726.860	25.28	38.32	63.60	68.20	-4.60	peak	

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

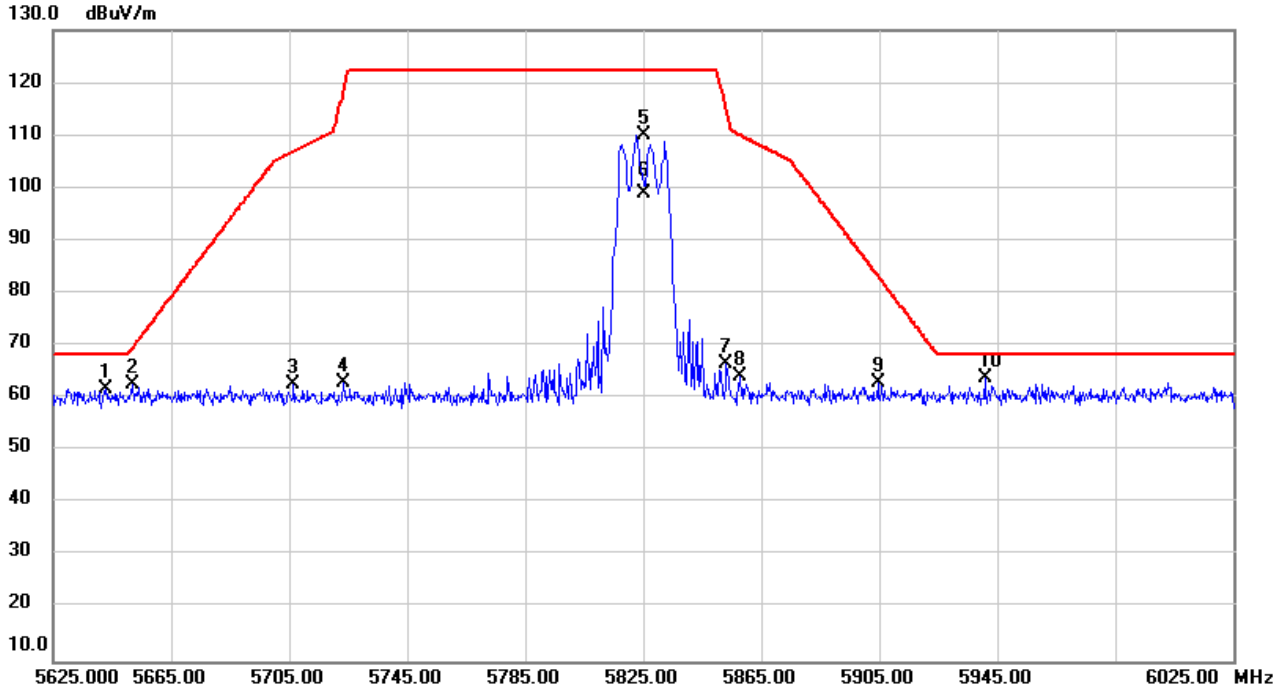
Test Mode	IEEE 802.11a	Test Date	2022/3/18
Test Frequency	5745MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5646.760	24.86	38.14	63.00	68.20	-5.20	peak	
2		5657.320	24.88	38.16	63.04	73.64	-10.60	peak	
3		5719.520	25.78	38.30	64.08	110.67	-46.59	peak	
4		5723.413	32.02	38.31	70.33	118.58	-48.25	peak	
5		5745.000	71.32	38.36	109.68	122.20	-12.52	peak	NoLimit
6		5745.000	60.17	38.36	98.53	122.20	-23.67	AVG	NoLimit
7		5849.960	23.34	38.59	61.93	122.20	-60.27	peak	
8		5869.507	23.65	38.64	62.29	106.74	-44.45	peak	
9		5908.947	23.91	38.72	62.63	80.05	-17.42	peak	
10		5928.560	23.64	38.77	62.41	68.20	-5.79	peak	

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

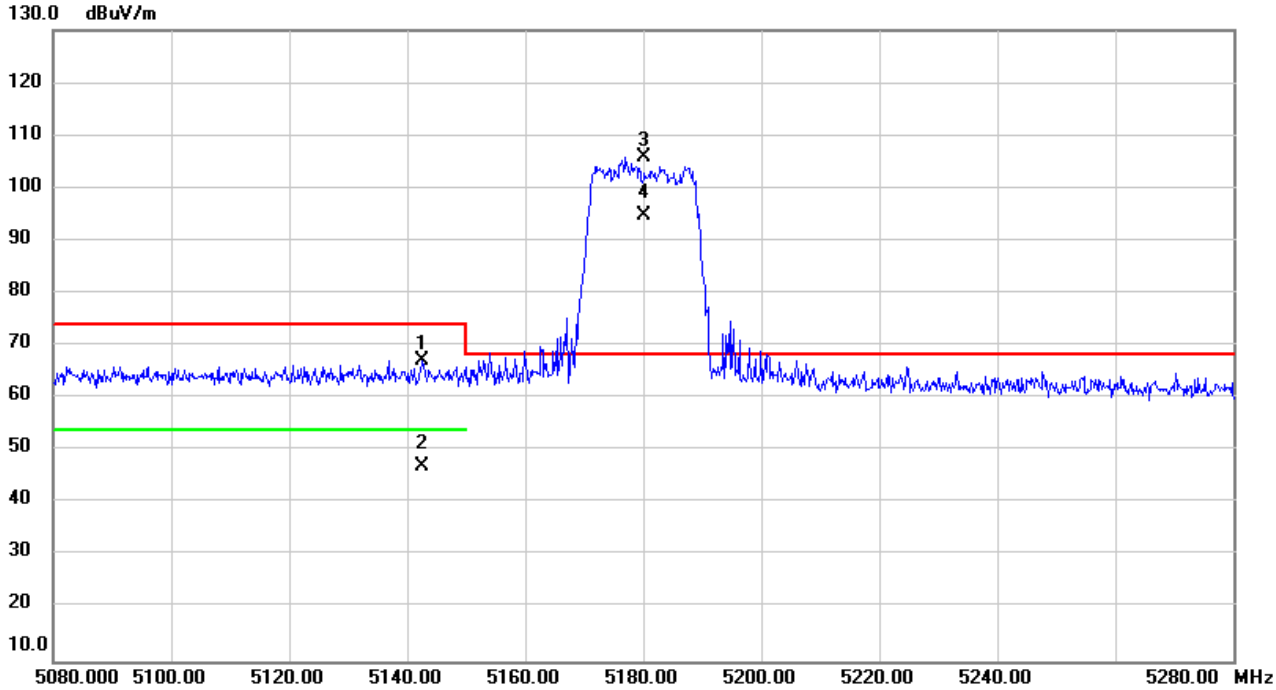
Test Mode	IEEE 802.11a	Test Date	2022/3/18
Test Frequency	5825MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5642.680	23.74	38.13	61.87	68.20	-6.33	peak	
2		5651.933	24.36	38.15	62.51	69.64	-7.13	peak	
3		5706.253	24.28	38.27	62.55	106.95	-44.40	peak	
4		5723.400	24.68	38.31	62.99	118.55	-55.56	peak	
5		5825.000	71.43	38.54	109.97	122.20	-12.23	peak	NoLimit
6		5825.000	60.35	38.54	98.89	122.20	-23.31	AVG	NoLimit
7		5853.067	27.98	38.60	66.58	115.21	-48.63	peak	
8		5857.613	25.56	38.61	64.17	110.07	-45.90	peak	
9		5904.533	24.10	38.72	62.82	83.31	-20.49	peak	
10	*	5940.933	25.13	38.80	63.93	68.20	-4.27	peak	

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

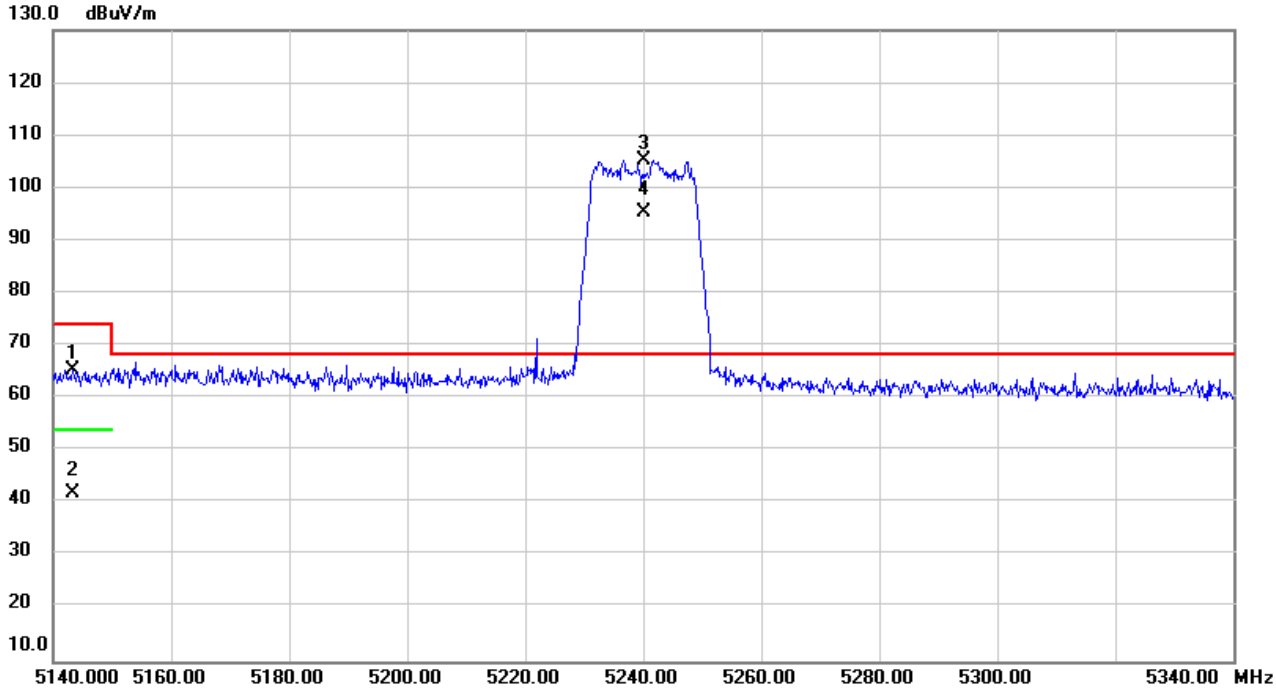
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/18
Test Frequency	5180MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5142.460	29.82	37.33	67.15	74.00	-6.85	peak	
2		5142.460	9.67	37.33	47.00	54.00	-7.00	AVG	
3	*	5180.000	68.54	37.38	105.92	68.20	37.72	peak	NoLimit
4	X	5180.000	57.46	37.38	94.84	68.20	26.64	AVG	NoLimit

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

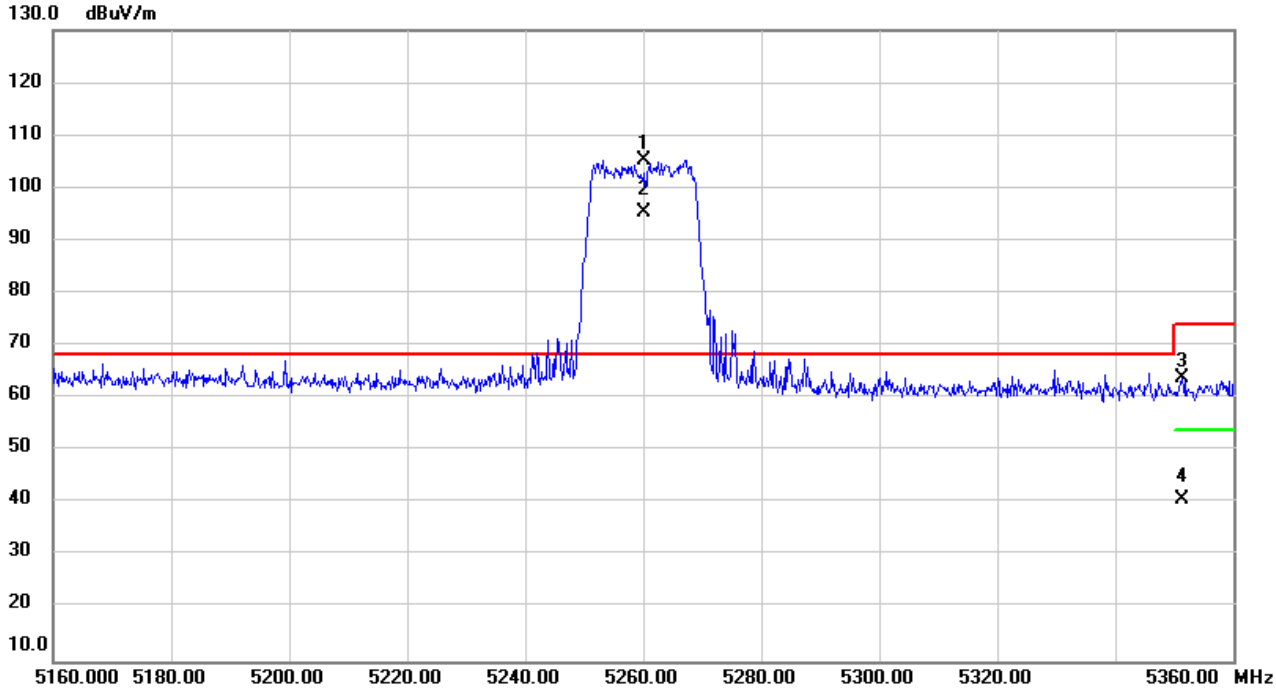
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/18
Test Frequency	5240MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5143.320	28.02	37.33	65.35	74.00	-8.65	peak	
2		5143.320	4.61	37.33	41.94	54.00	-12.06	AVG	
3	*	5240.000	67.92	37.46	105.38	68.20	37.18	peak	NoLimit
4	X	5240.000	57.87	37.46	95.33	68.20	27.13	AVG	NoLimit

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

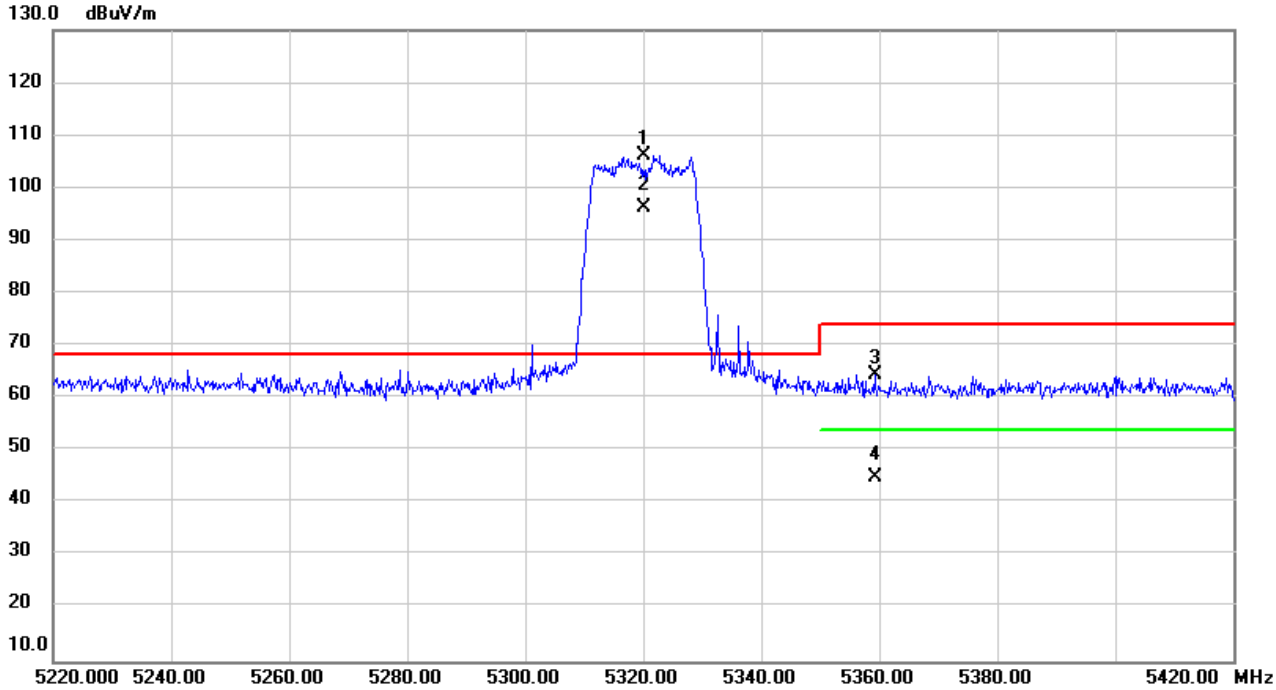
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/18
Test Frequency	5260MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5260.000	67.85	37.49	105.34	68.20	37.14	peak	NoLimit
2	X	5260.000	57.90	37.49	95.39	68.20	27.19	AVG	NoLimit
3		5351.213	26.20	37.61	63.81	74.00	-10.19	peak	
4		5351.213	3.28	37.61	40.89	54.00	-13.11	AVG	

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

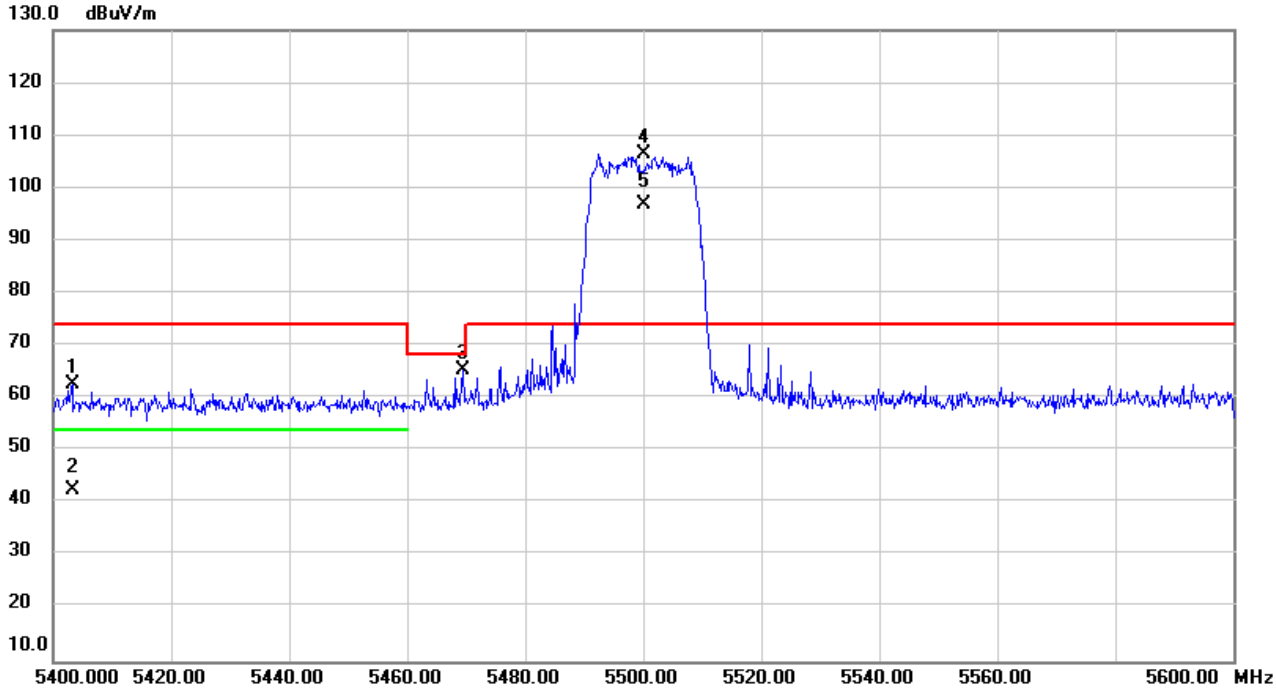
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/18
Test Frequency	5320MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5320.000	68.70	37.57	106.27	68.20	38.07	peak	NoLimit
2	X	5320.000	58.81	37.57	96.38	68.20	28.18	AVG	NoLimit
3		5359.260	26.80	37.62	64.42	74.00	-9.58	peak	
4		5359.260	7.35	37.62	44.97	54.00	-9.03	AVG	

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

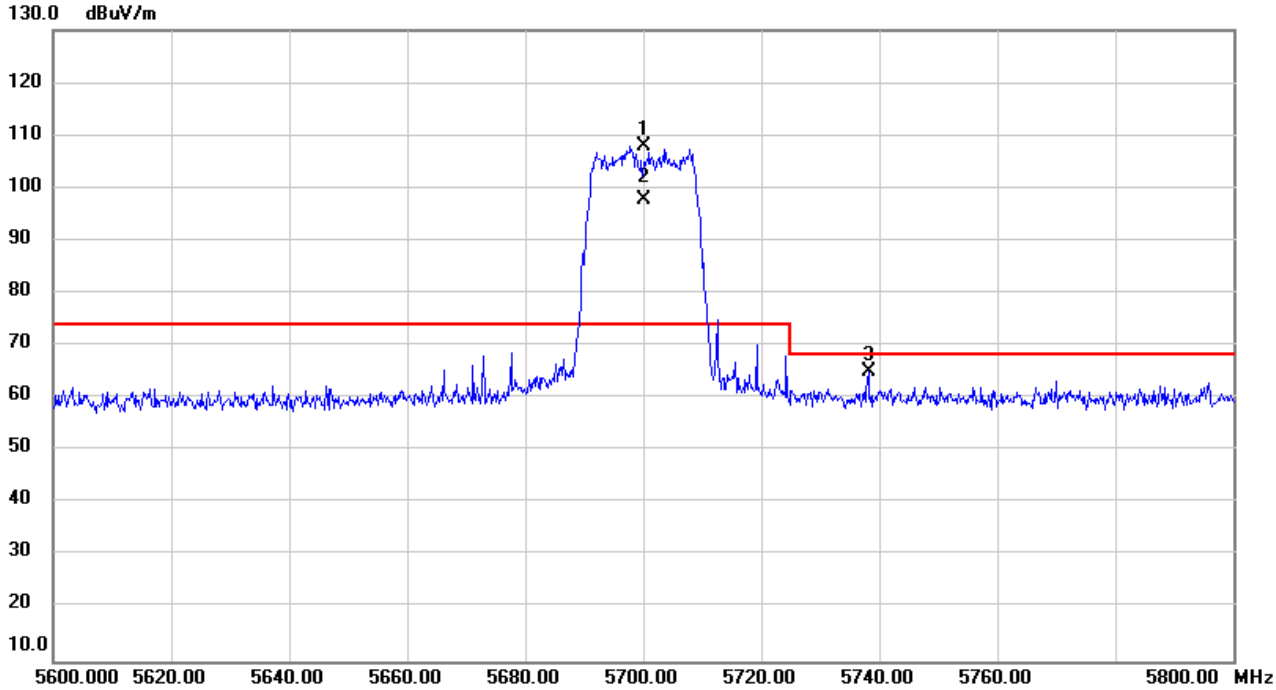
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/18
Test Frequency	5500MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5403.207	25.03	37.68	62.71	74.00	-11.29	peak	
2		5403.207	4.88	37.68	42.56	54.00	-11.44	AVG	
3		5469.393	27.59	37.77	65.36	68.20	-2.84	peak	
4	*	5500.000	68.59	37.81	106.40	74.00	32.40	peak	NoLimit
5	X	5500.000	59.00	37.81	96.81	74.00	22.81	AVG	NoLimit

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

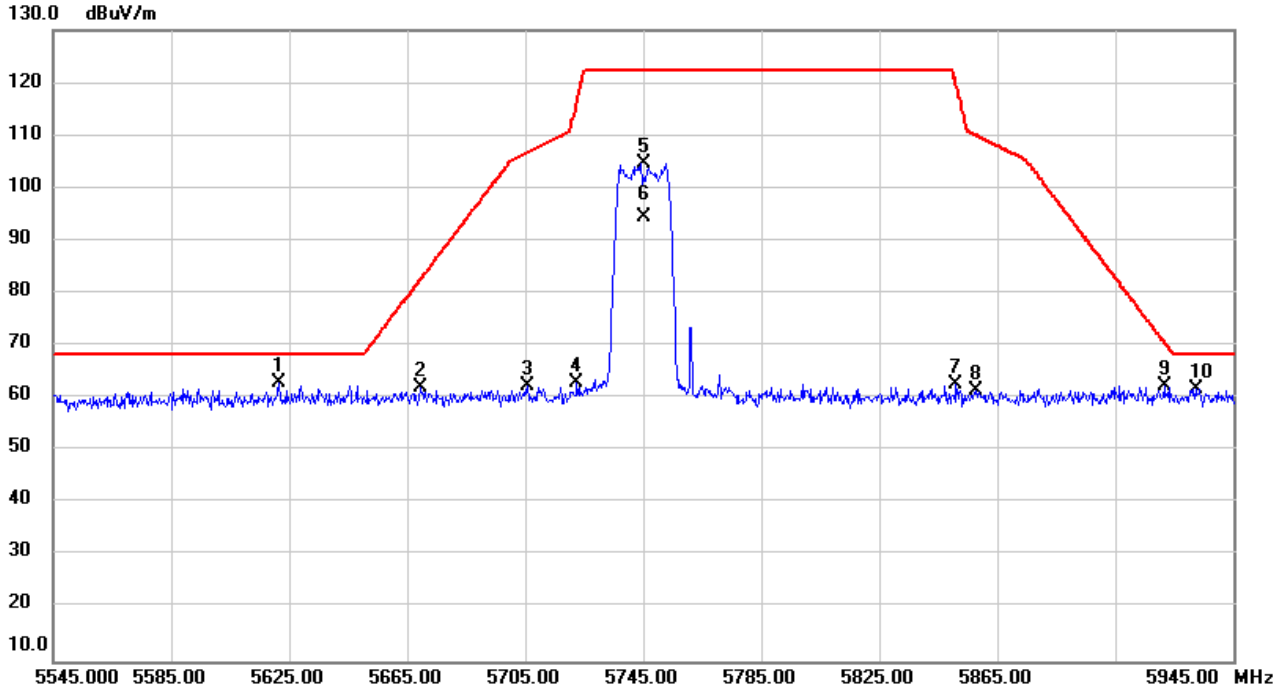
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/18
Test Frequency	5700MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5700.000	69.81	38.26	108.07	74.00	34.07	peak	NoLimit
2	X	5700.000	59.49	38.26	97.75	74.00	23.75	AVG	NoLimit
3		5738.140	26.59	38.34	64.93	68.20	-3.27	peak	

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

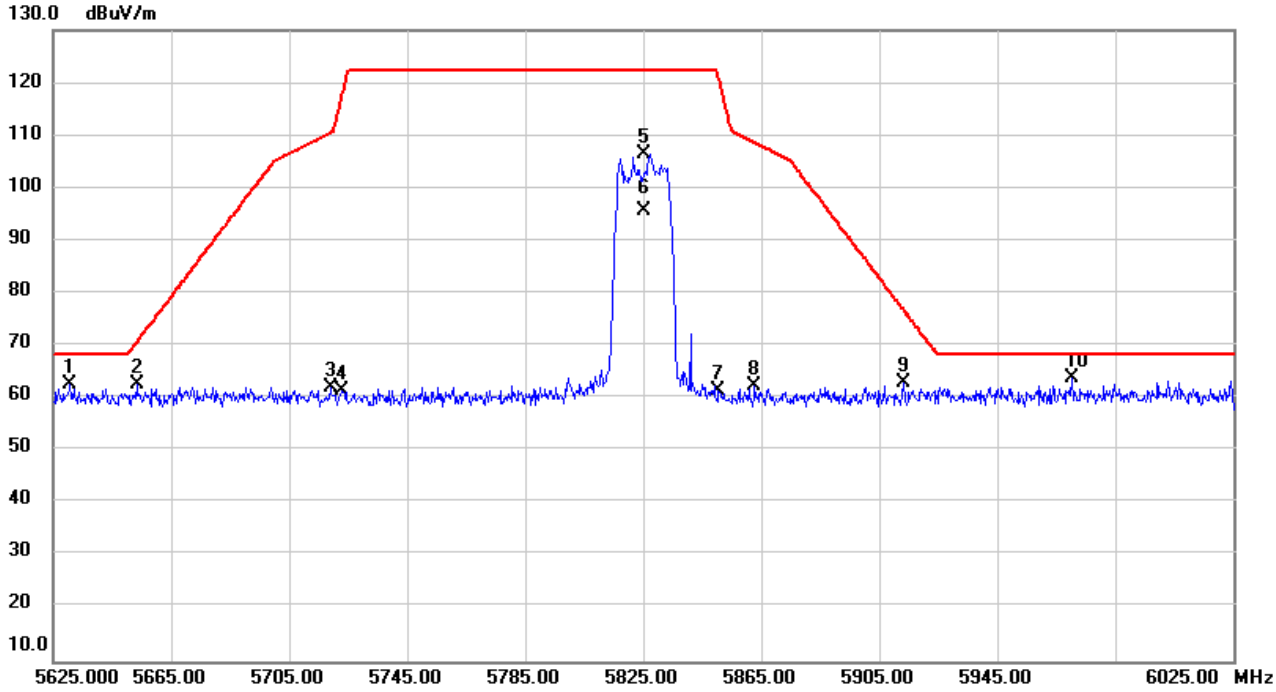
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/18
Test Frequency	5745MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5621.613	24.80	38.08	62.88	68.20	-5.32	peak	
2		5669.560	23.72	38.19	61.91	82.71	-20.80	peak	
3		5705.853	24.16	38.27	62.43	106.84	-44.41	peak	
4		5722.320	24.57	38.31	62.88	116.09	-53.21	peak	
5		5745.000	66.35	38.36	104.71	122.20	-17.49	peak	NoLimit
6		5745.000	56.24	38.36	94.60	122.20	-27.60	AVG	NoLimit
7		5851.067	24.19	38.59	62.78	119.77	-56.99	peak	
8		5857.680	22.86	38.61	61.47	110.05	-48.58	peak	
9		5921.720	23.67	38.75	62.42	70.62	-8.20	peak	
10		5932.427	23.07	38.78	61.85	68.20	-6.35	peak	

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

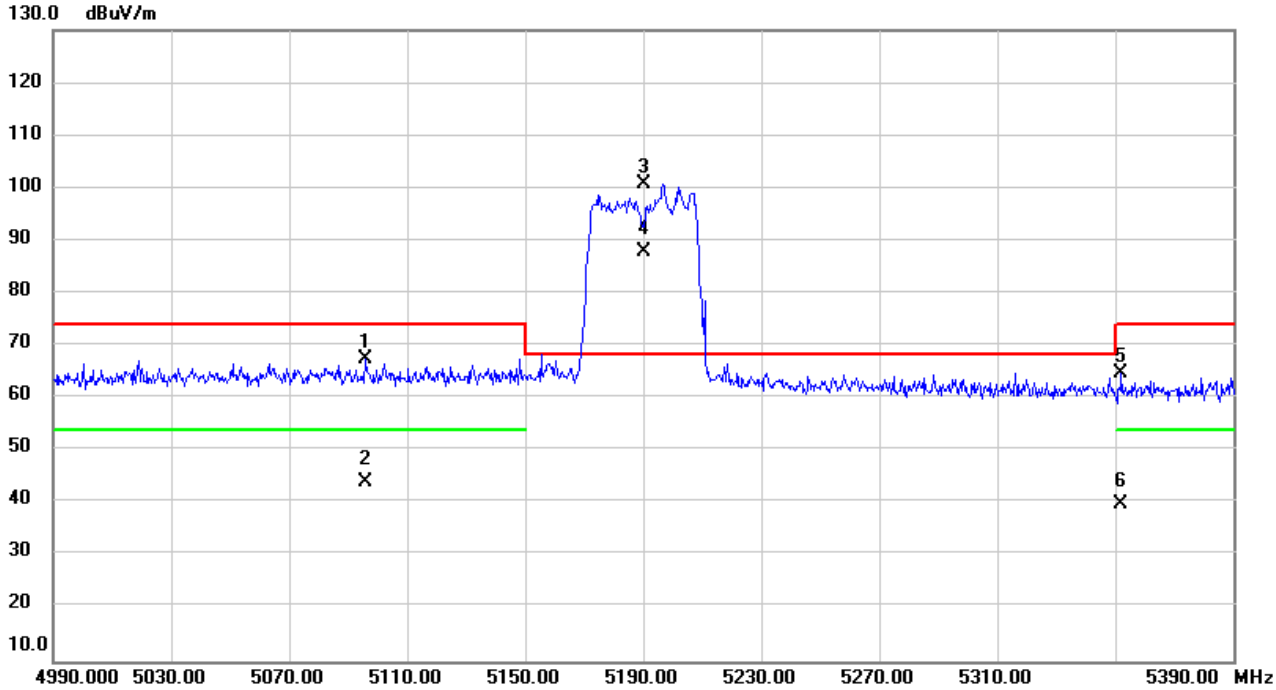
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/18
Test Frequency	5825MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5630.707	24.43	38.10	62.53	68.20	-5.67	peak	
2		5653.293	24.48	38.15	62.63	70.65	-8.02	peak	
3		5719.360	23.71	38.30	62.01	110.62	-48.61	peak	
4		5722.827	23.00	38.31	61.31	117.25	-55.94	peak	
5		5825.000	67.83	38.54	106.37	122.20	-15.83	peak	NoLimit
6		5825.000	57.17	38.54	95.71	122.20	-26.49	AVG	NoLimit
7		5850.453	22.81	38.59	61.40	121.17	-59.77	peak	
8		5862.813	23.66	38.62	62.28	108.61	-46.33	peak	
9		5913.040	24.07	38.74	62.81	77.02	-14.21	peak	
10	*	5970.520	24.92	38.87	63.79	68.20	-4.41	peak	

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

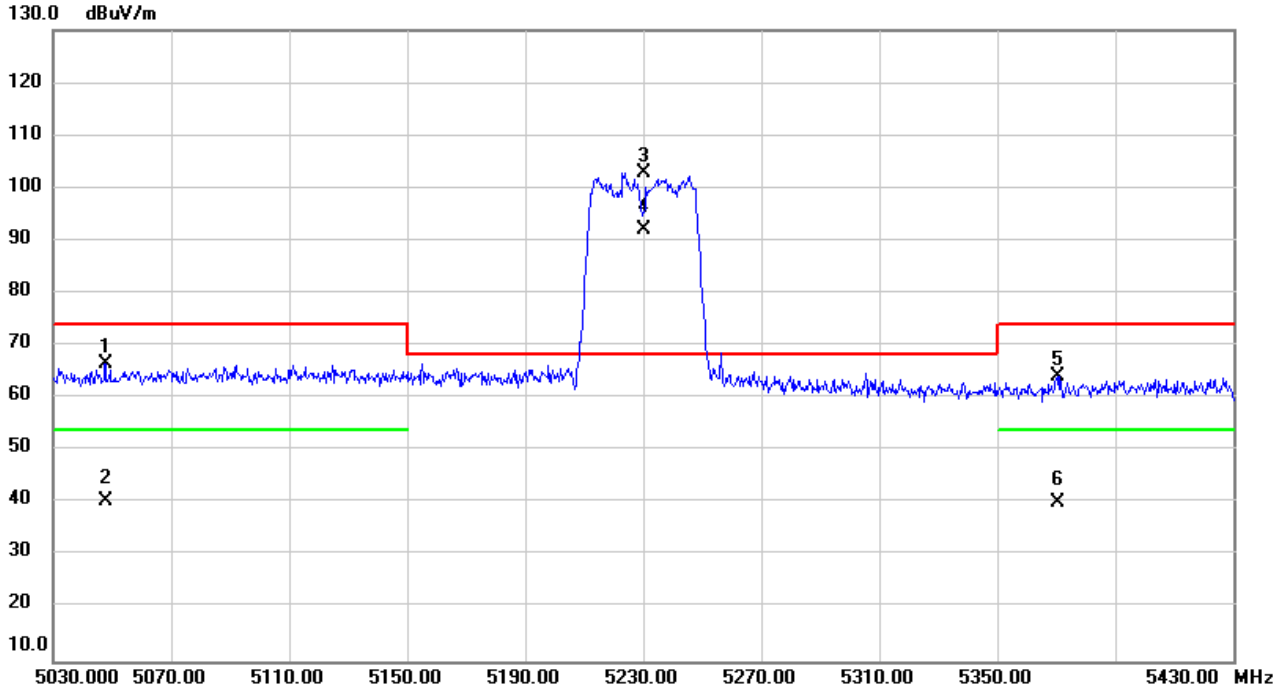
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/18
Test Frequency	5190MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5096.000	30.16	37.27	67.43	74.00	-6.57	peak	
2		5096.000	6.65	37.27	43.92	54.00	-10.08	AVG	
3	*	5190.000	63.30	37.39	100.69	68.20	32.49	peak	NoLimit
4	X	5190.000	50.33	37.39	87.72	68.20	19.52	AVG	NoLimit
5		5352.120	27.05	37.61	64.66	74.00	-9.34	peak	
6		5352.120	2.10	37.61	39.71	54.00	-14.29	AVG	

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

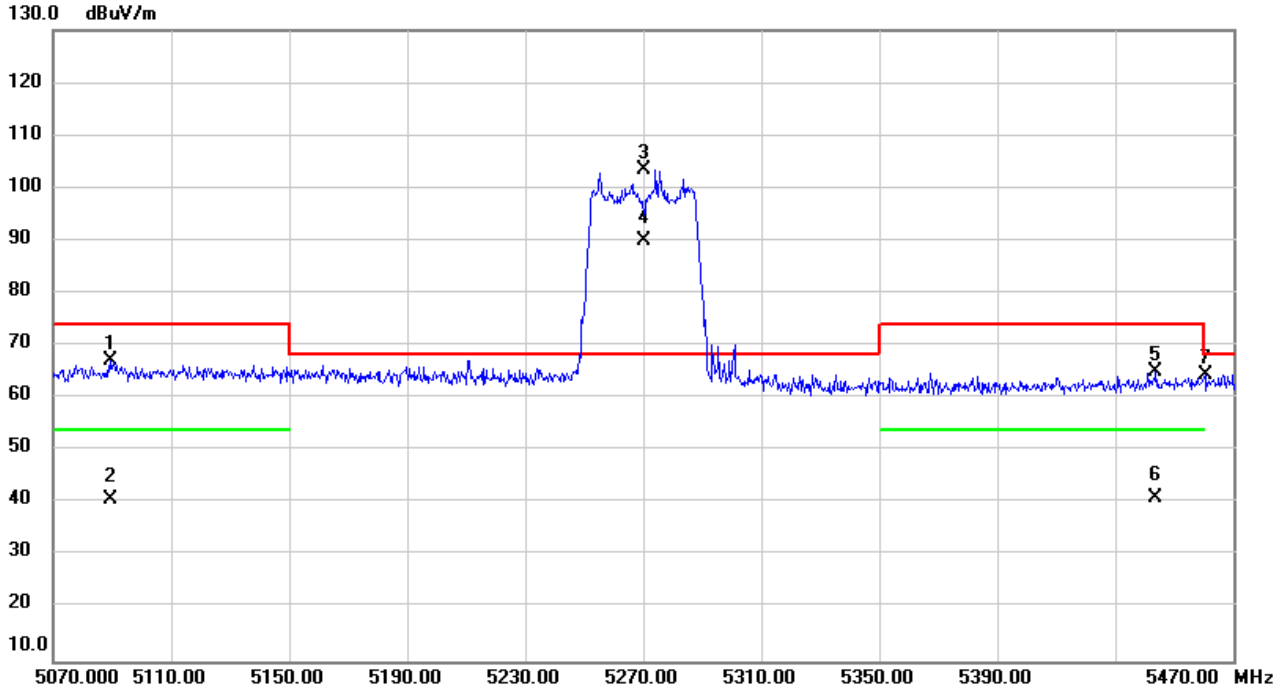
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/18
Test Frequency	5230MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5047.600	29.35	37.21	66.56	74.00	-7.44	peak	
2		5047.600	3.27	37.21	40.48	54.00	-13.52	AVG	
3	*	5230.000	65.48	37.44	102.92	68.20	34.72	peak	NoLimit
4	X	5230.000	54.48	37.44	91.92	68.20	23.72	AVG	NoLimit
5		5370.373	26.58	37.64	64.22	74.00	-9.78	peak	
6		5370.373	2.55	37.64	40.19	54.00	-13.81	AVG	

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

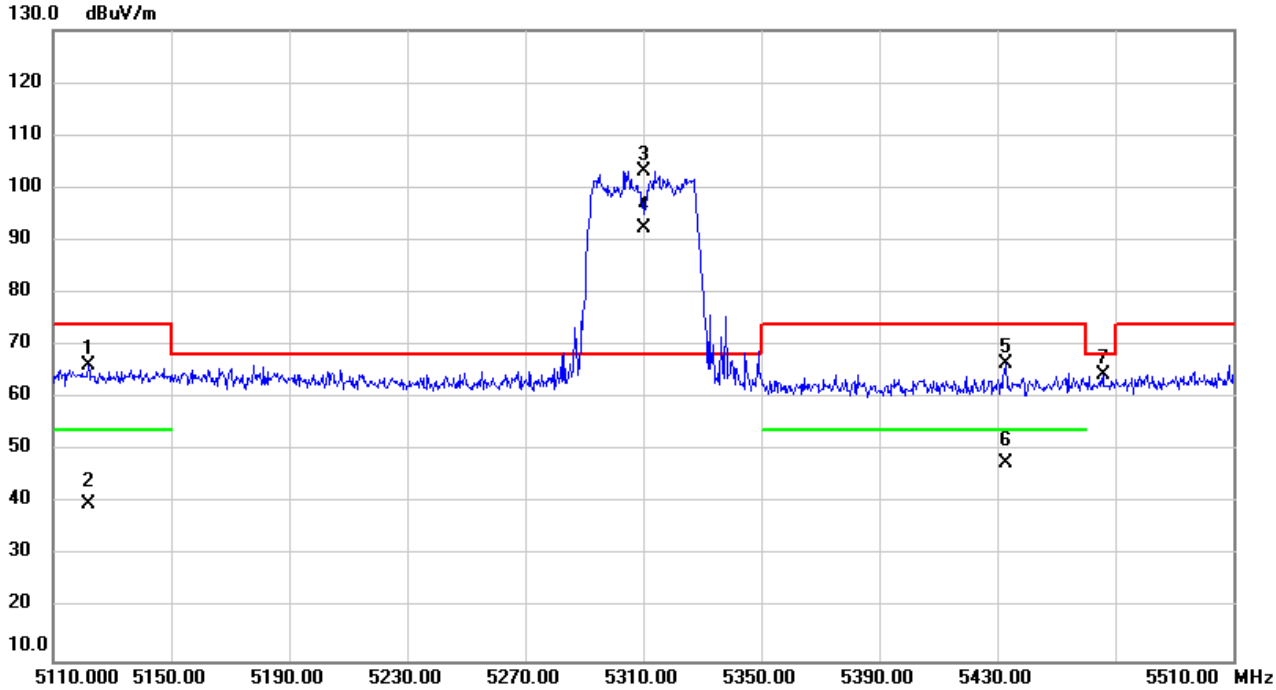
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/18
Test Frequency	5270MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5089.547	29.83	37.26	67.09	74.00	-6.91	peak	
2		5089.547	3.60	37.26	40.86	54.00	-13.14	AVG	
3	*	5270.000	65.87	37.51	103.38	68.20	35.18	peak	NoLimit
4	X	5270.000	52.45	37.51	89.96	68.20	21.76	AVG	NoLimit
5		5443.760	27.19	37.74	64.93	74.00	-9.07	peak	
6		5443.760	3.45	37.74	41.19	54.00	-12.81	AVG	
7		5460.533	26.62	37.76	64.38	68.20	-3.82	peak	

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

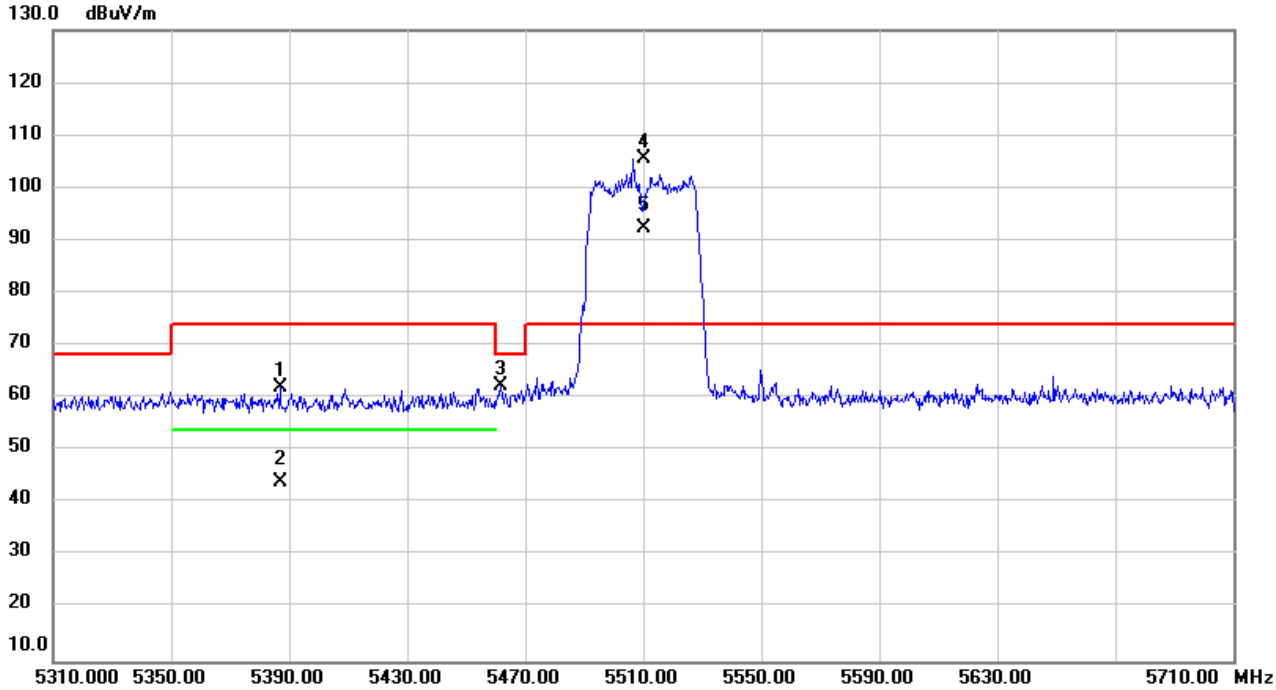
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/18
Test Frequency	5310MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5121.867	28.99	37.31	66.30	74.00	-7.70	peak	
2		5121.867	2.56	37.31	39.87	54.00	-14.13	AVG	
3	*	5310.000	65.66	37.56	103.22	68.20	35.02	peak	NoLimit
4	X	5310.000	54.74	37.56	92.30	68.20	24.10	AVG	NoLimit
5		5432.800	28.93	37.72	66.65	74.00	-7.35	peak	
6		5432.800	9.98	37.72	47.70	54.00	-6.30	AVG	
7		5465.933	26.80	37.76	64.56	68.20	-3.64	peak	

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

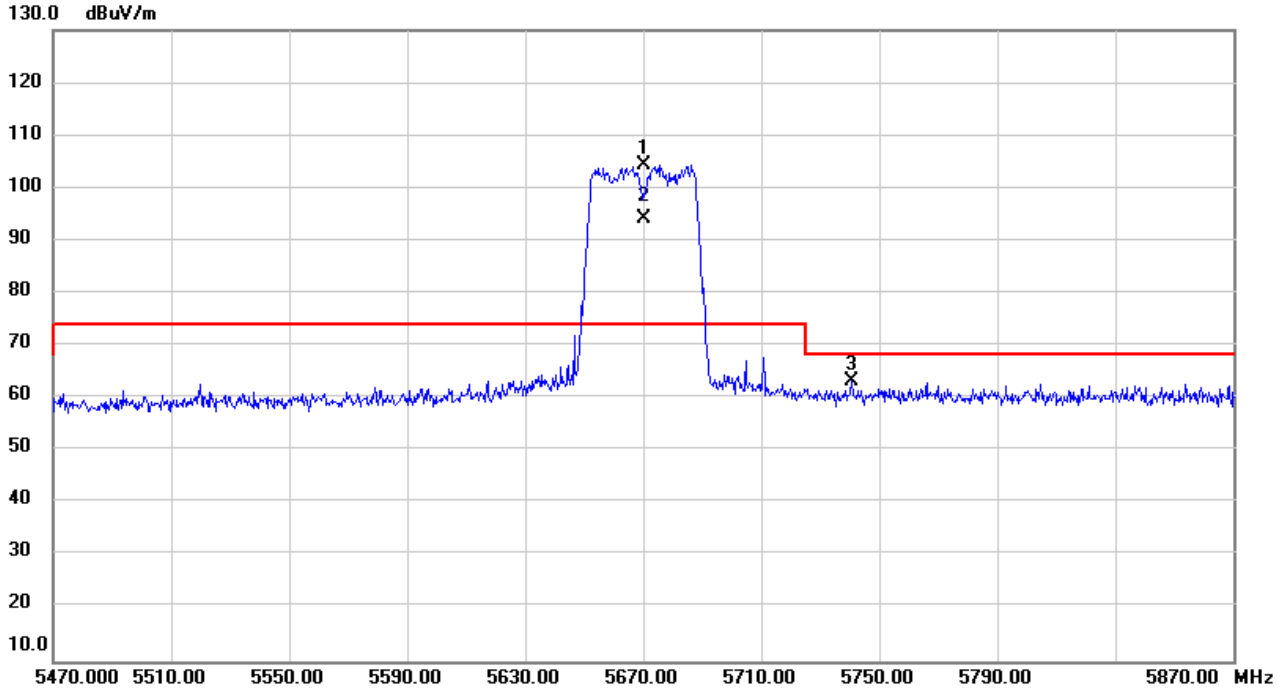
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/18
Test Frequency	5510MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5387.133	24.37	37.66	62.03	74.00	-11.97	peak	
2		5387.133	6.35	37.66	44.01	54.00	-9.99	AVG	
3		5461.947	24.45	37.76	62.21	68.20	-5.99	peak	
4	*	5510.000	67.84	37.83	105.67	74.00	31.67	peak	NoLimit
5	X	5510.000	54.45	37.83	92.28	74.00	18.28	AVG	NoLimit

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

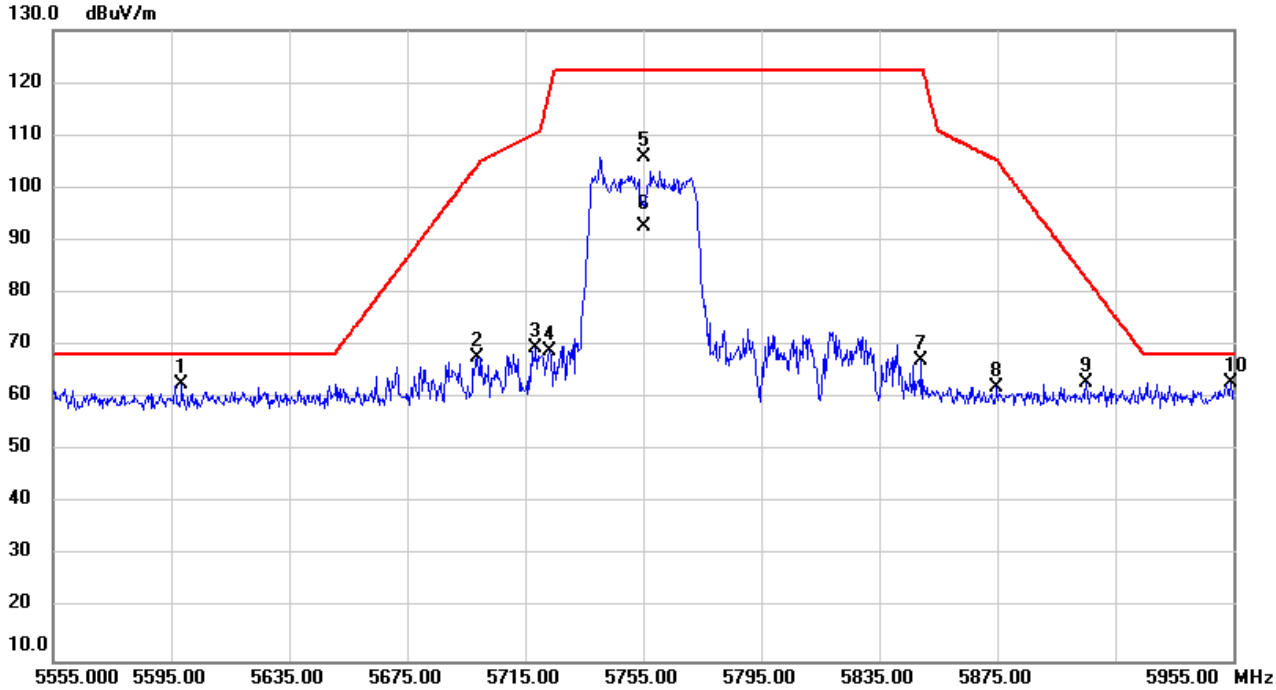
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/18
Test Frequency	5670MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5670.000	66.16	38.19	104.35	74.00	30.35	peak	NoLimit
2	X	5670.000	55.88	38.19	94.07	74.00	20.07	AVG	NoLimit
3		5740.747	24.92	38.35	63.27	68.20	-4.93	peak	

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

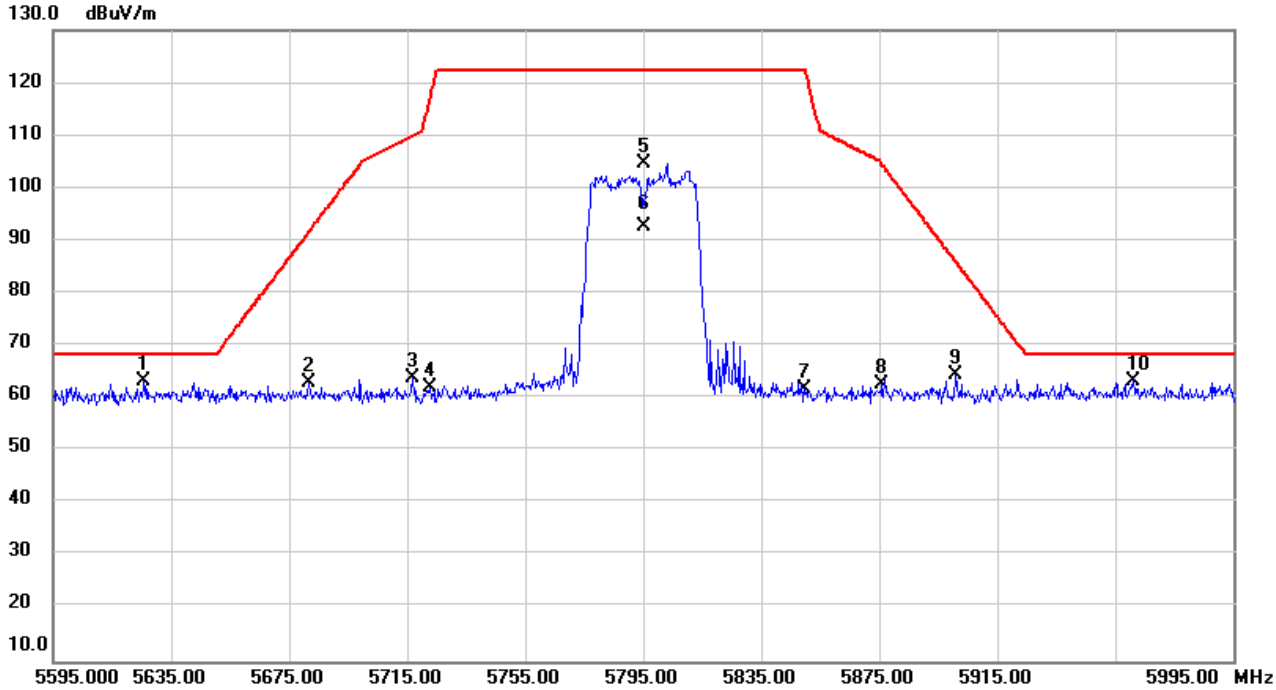
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/18
Test Frequency	5755MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5598.653	24.58	38.03	62.61	68.20	-5.59	peak	
2		5698.600	29.58	38.26	67.84	104.17	-36.33	peak	
3		5718.680	31.20	38.30	69.50	110.43	-40.93	peak	
4		5723.387	30.70	38.31	69.01	118.52	-49.51	peak	
5		5755.000	67.62	38.38	106.00	122.20	-16.20	peak	NoLimit
6		5755.000	54.36	38.38	92.74	122.20	-29.46	AVG	NoLimit
7		5849.160	28.52	38.59	67.11	122.20	-55.09	peak	
8		5874.720	23.55	38.64	62.19	105.28	-43.09	peak	
9		5905.280	24.18	38.72	62.90	82.76	-19.86	peak	
10	*	5954.053	24.15	38.83	62.98	68.20	-5.22	peak	

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

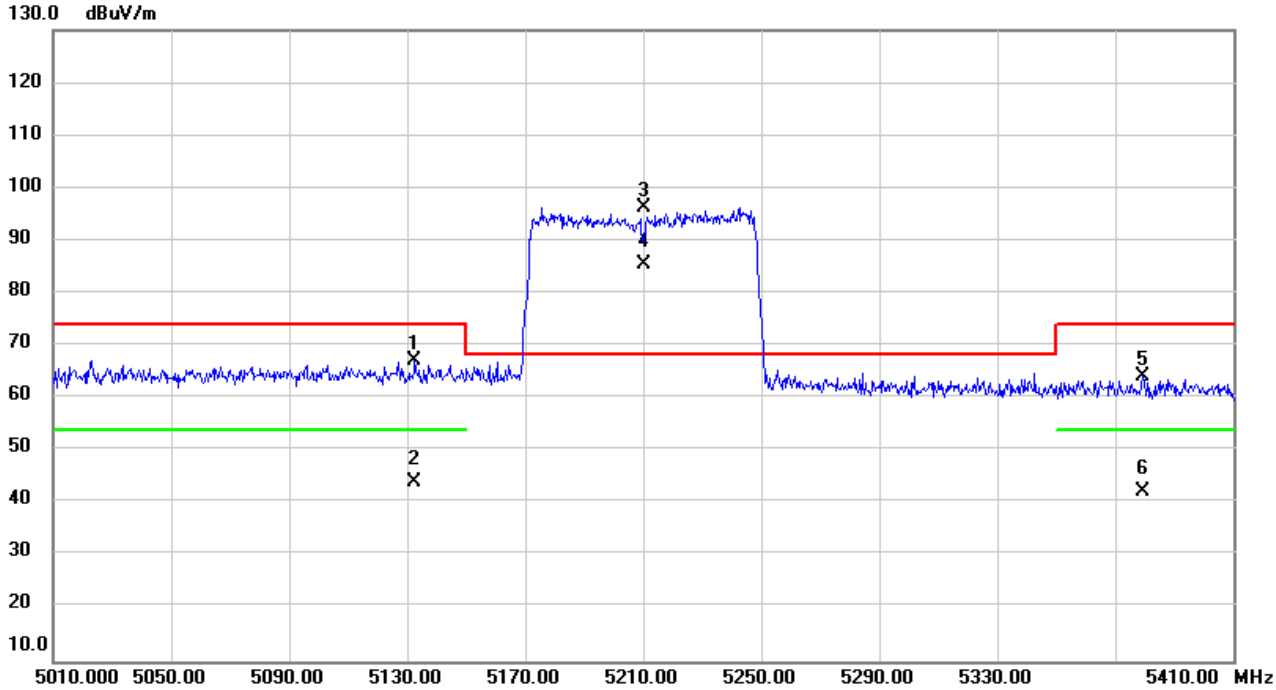
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/18
Test Frequency	5795MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5625.813	25.25	38.10	63.35	68.20	-4.85	peak	
2		5681.773	24.70	38.21	62.91	91.75	-28.84	peak	
3		5716.867	25.55	38.29	63.84	109.92	-46.08	peak	
4		5722.480	23.72	38.31	62.03	116.46	-54.43	peak	
5		5795.000	66.05	38.47	104.52	122.20	-17.68	peak	NoLimit
6		5795.000	54.29	38.47	92.76	122.20	-29.44	AVG	NoLimit
7		5849.907	23.27	38.59	61.86	122.20	-60.34	peak	
8		5876.040	23.98	38.66	62.64	104.43	-41.79	peak	
9		5901.000	25.61	38.71	64.32	85.92	-21.60	peak	
10	*	5961.333	24.55	38.85	63.40	68.20	-4.80	peak	

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

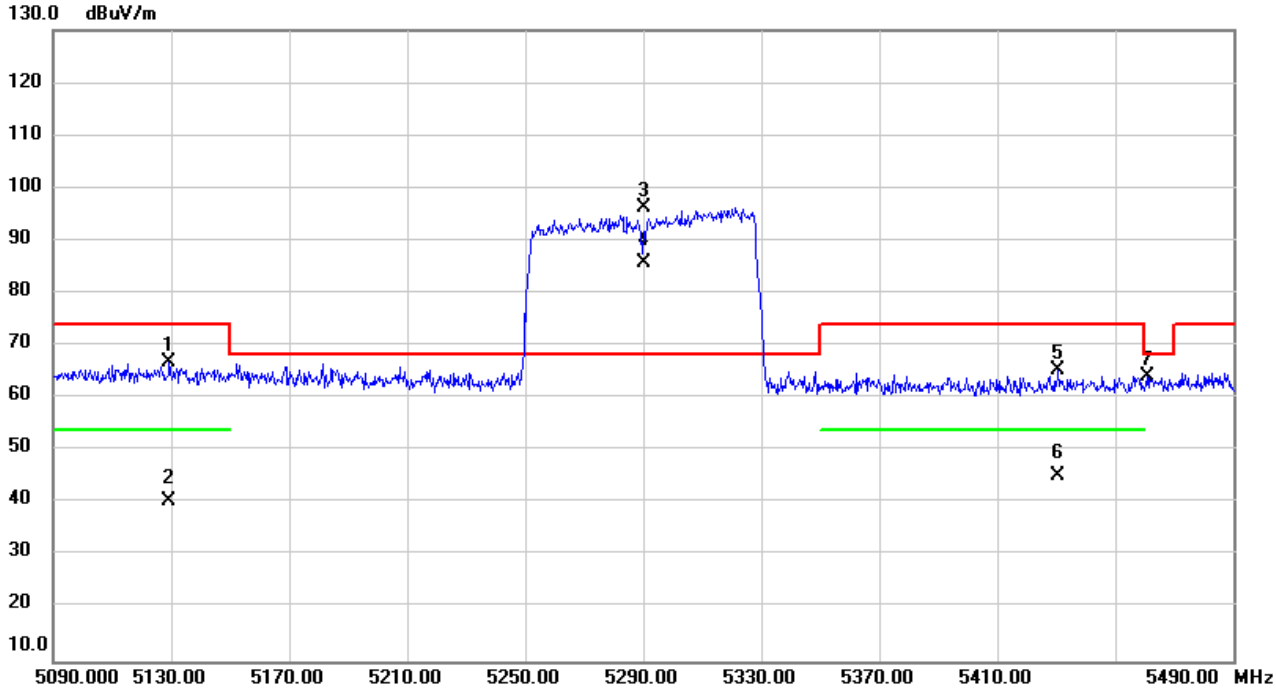
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2022/3/18
Test Frequency	5210MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5132.533	29.95	37.32	67.27	74.00	-6.73	peak	
2		5132.533	6.68	37.32	44.00	54.00	-10.00	AVG	
3	*	5210.000	58.88	37.42	96.30	68.20	28.10	peak	NoLimit
4	X	5210.000	48.05	37.42	85.47	68.20	17.27	AVG	NoLimit
5		5379.187	26.59	37.64	64.23	74.00	-9.77	peak	
6		5379.187	4.67	37.64	42.31	54.00	-11.69	AVG	

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

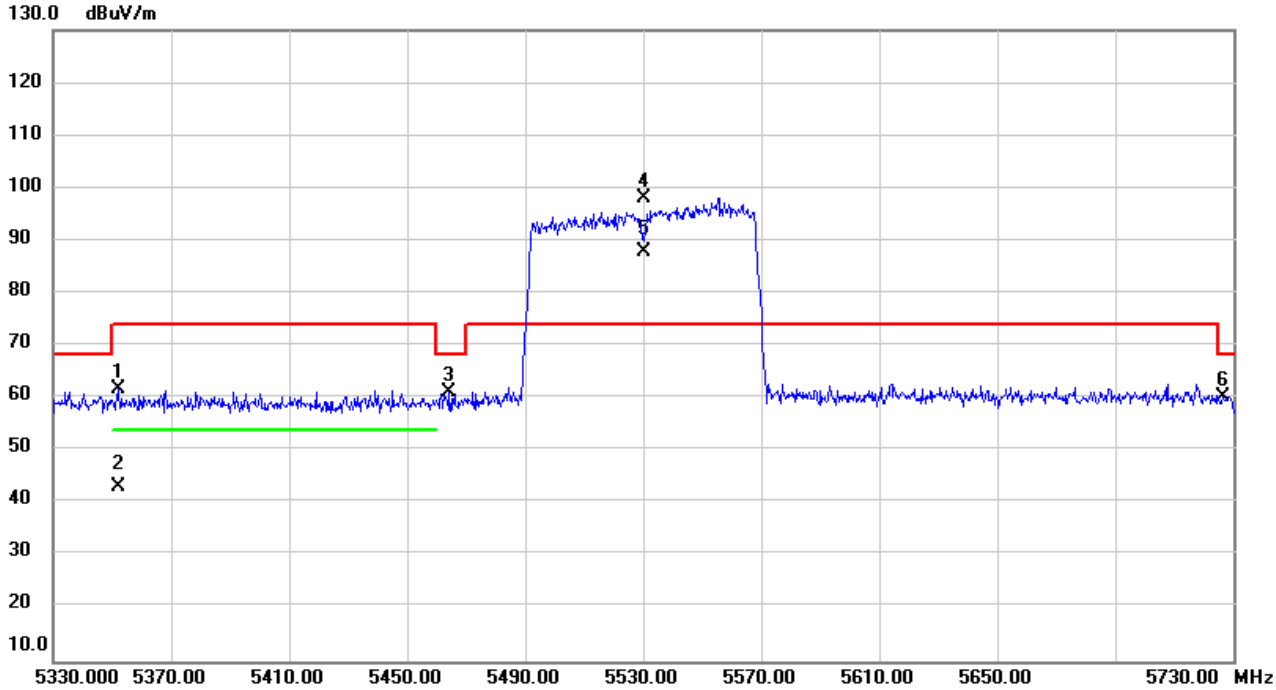
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2022/3/18
Test Frequency	5290MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5129.400	29.64	37.31	66.95	74.00	-7.05	peak	
2		5129.400	3.07	37.31	40.38	54.00	-13.62	AVG	
3	*	5290.000	58.83	37.53	96.36	68.20	28.16	peak	NoLimit
4	X	5290.000	48.34	37.53	85.87	68.20	17.67	AVG	NoLimit
5		5430.427	27.57	37.71	65.28	74.00	-8.72	peak	
6		5430.427	7.60	37.71	45.31	54.00	-8.69	AVG	
7		5460.747	26.34	37.76	64.10	68.20	-4.10	peak	

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

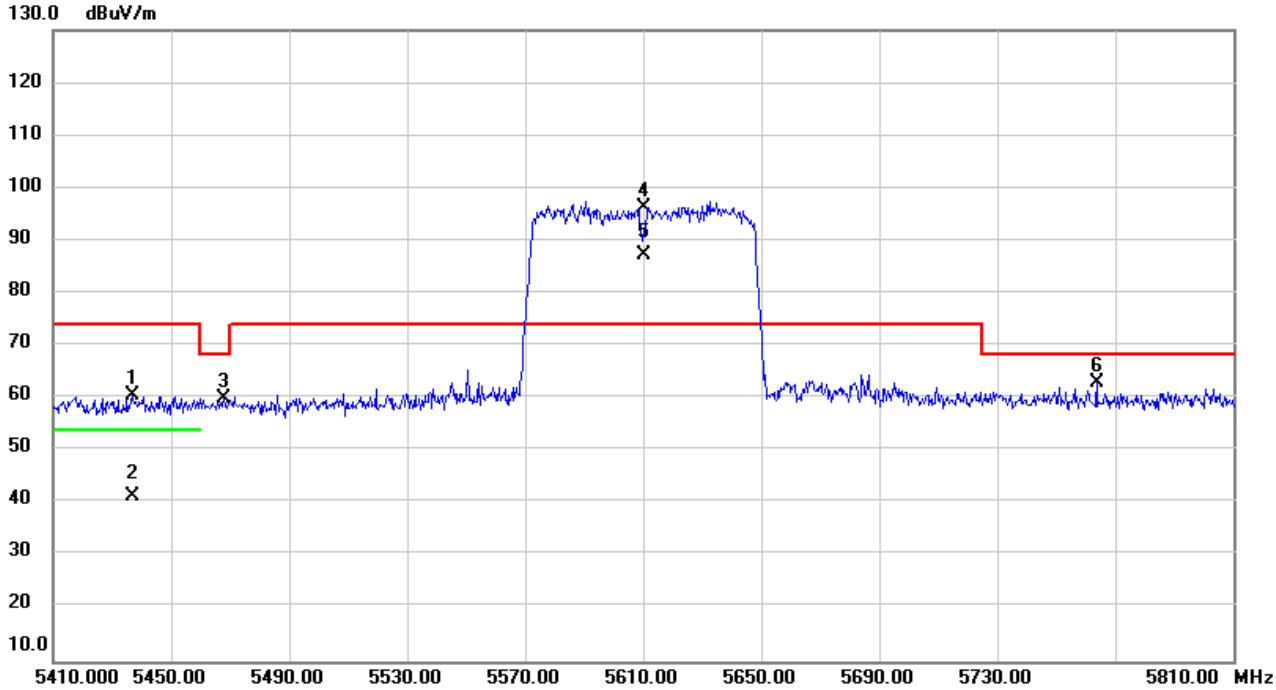
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2022/3/18
Test Frequency	5530MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5351.973	24.23	37.61	61.84	74.00	-12.16	peak	
2		5351.973	5.49	37.61	43.10	54.00	-10.90	AVG	
3		5464.280	23.44	37.76	61.20	68.20	-7.00	peak	
4	*	5530.000	60.29	37.88	98.17	74.00	24.17	peak	NoLimit
5	X	5530.000	49.84	37.88	87.72	74.00	13.72	AVG	NoLimit
6		5726.667	21.98	38.32	60.30	68.20	-7.90	peak	

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

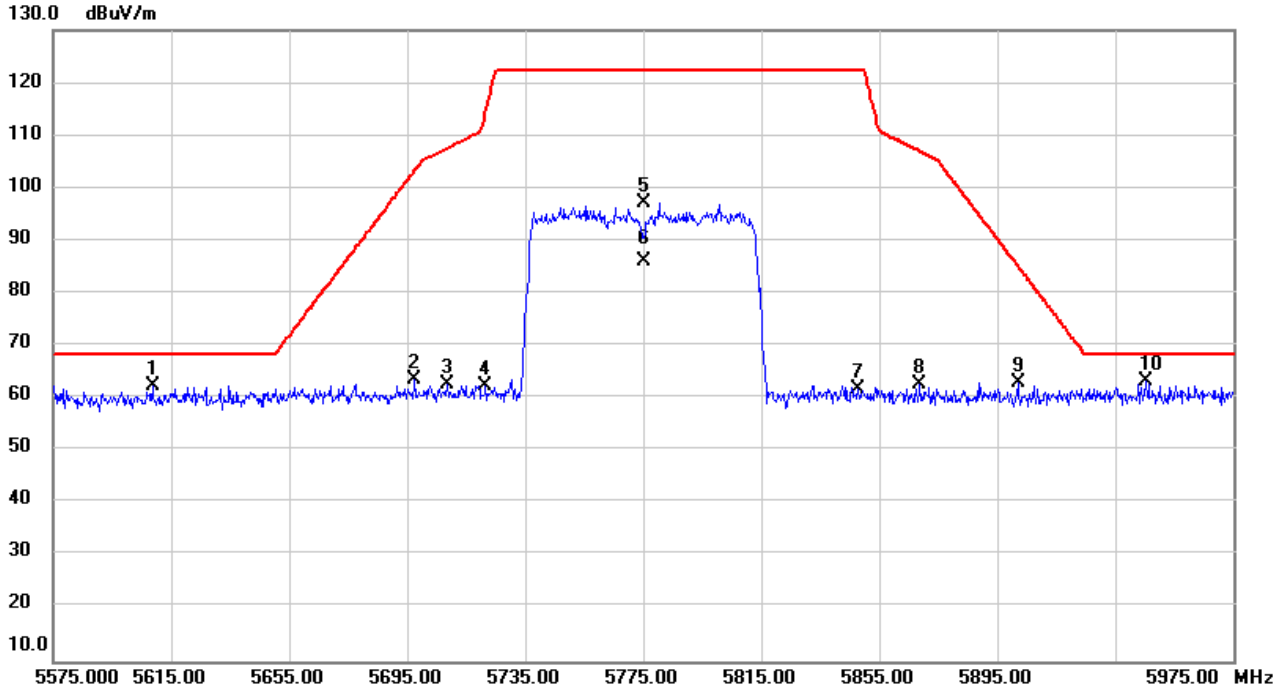
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2022/3/18
Test Frequency	5610MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5436.787	22.68	37.73	60.41	74.00	-13.59	peak	
2		5436.787	3.47	37.73	41.20	54.00	-12.80	AVG	
3		5467.760	22.17	37.76	59.93	68.20	-8.27	peak	
4	*	5610.000	58.22	38.05	96.27	74.00	22.27	peak	NoLimit
5	X	5610.000	49.13	38.05	87.18	74.00	13.18	AVG	NoLimit
6		5763.893	24.49	38.40	62.89	68.20	-5.31	peak	

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

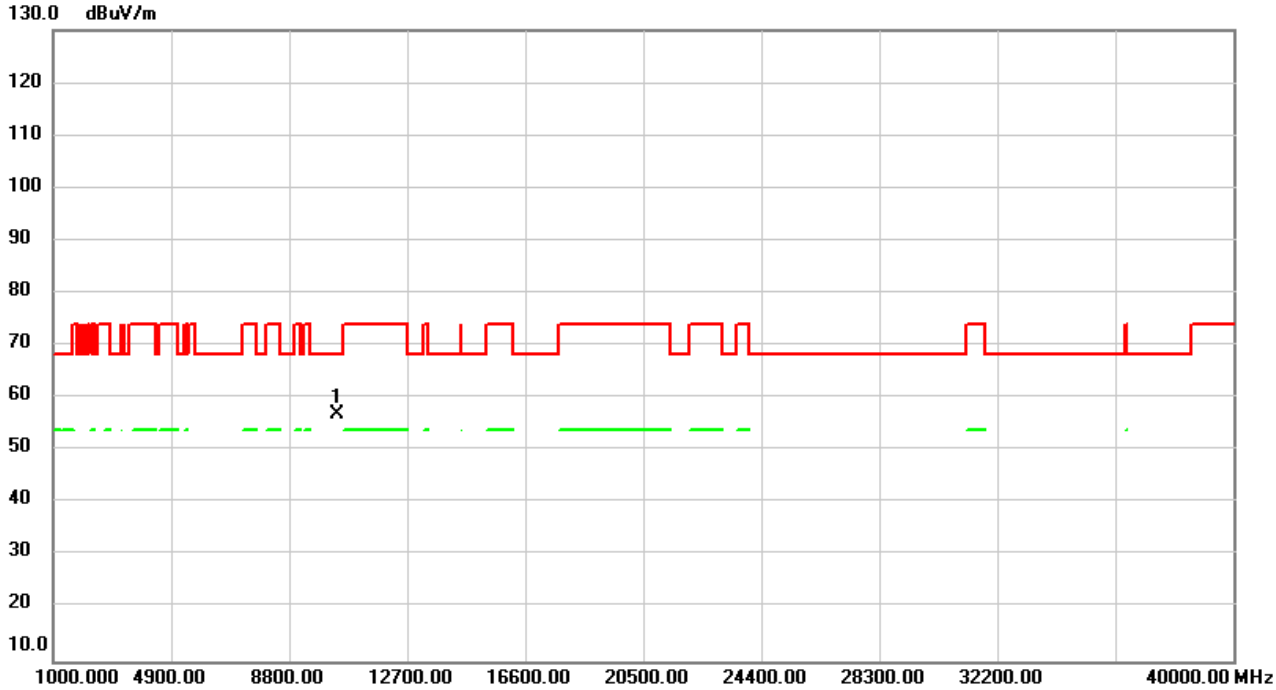
Test Mode	IEEE 802.11ac (HT80)	Test Date	2022/3/18
Test Frequency	5775MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5608.747	24.24	38.05	62.29	68.20	-5.91	peak	
2		5697.467	25.26	38.26	63.52	103.33	-39.81	peak	
3		5708.773	24.31	38.28	62.59	107.66	-45.07	peak	
4		5721.627	24.19	38.31	62.50	114.51	-52.01	peak	
5		5775.000	58.62	38.42	97.04	122.20	-25.16	peak	NoLimit
6		5775.000	47.71	38.42	86.13	122.20	-36.07	AVG	NoLimit
7		5847.827	23.29	38.59	61.88	122.20	-60.32	peak	
8		5868.693	23.98	38.64	62.62	106.96	-44.34	peak	
9		5902.133	24.23	38.71	62.94	85.08	-22.14	peak	
10	*	5945.413	24.59	38.80	63.39	68.20	-4.81	peak	

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

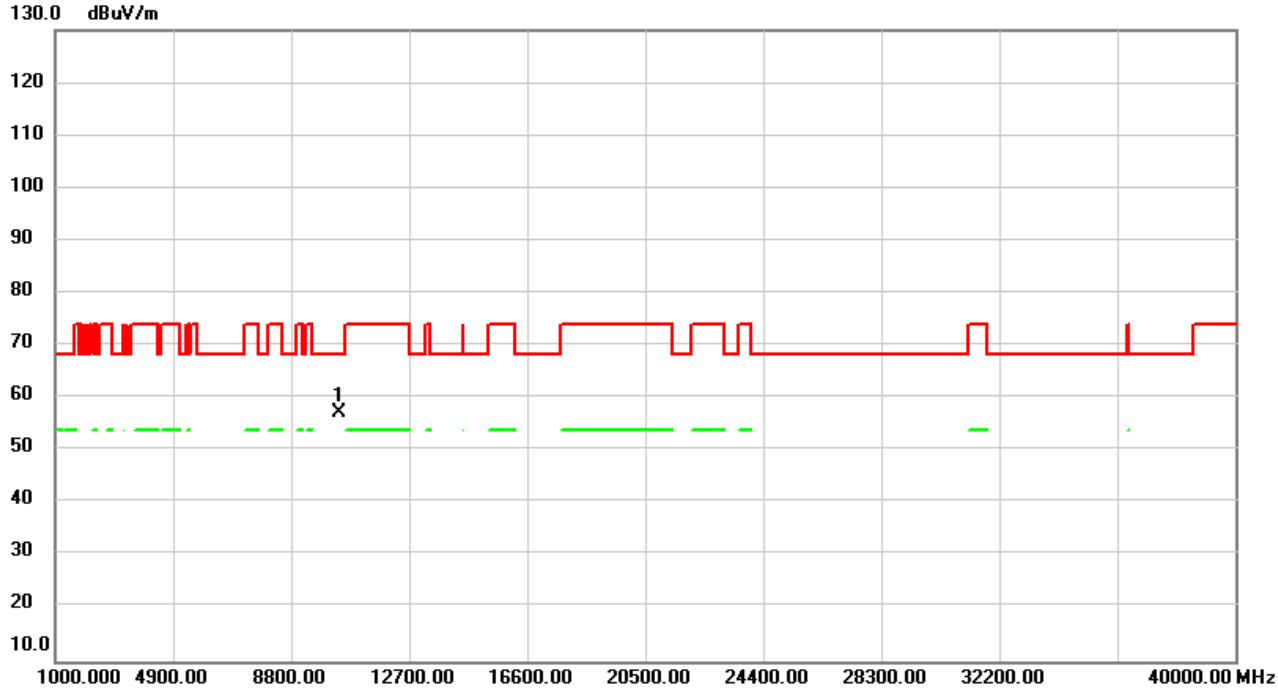
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5180MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	52.46	4.42	56.88	68.20	-11.32	peak	

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

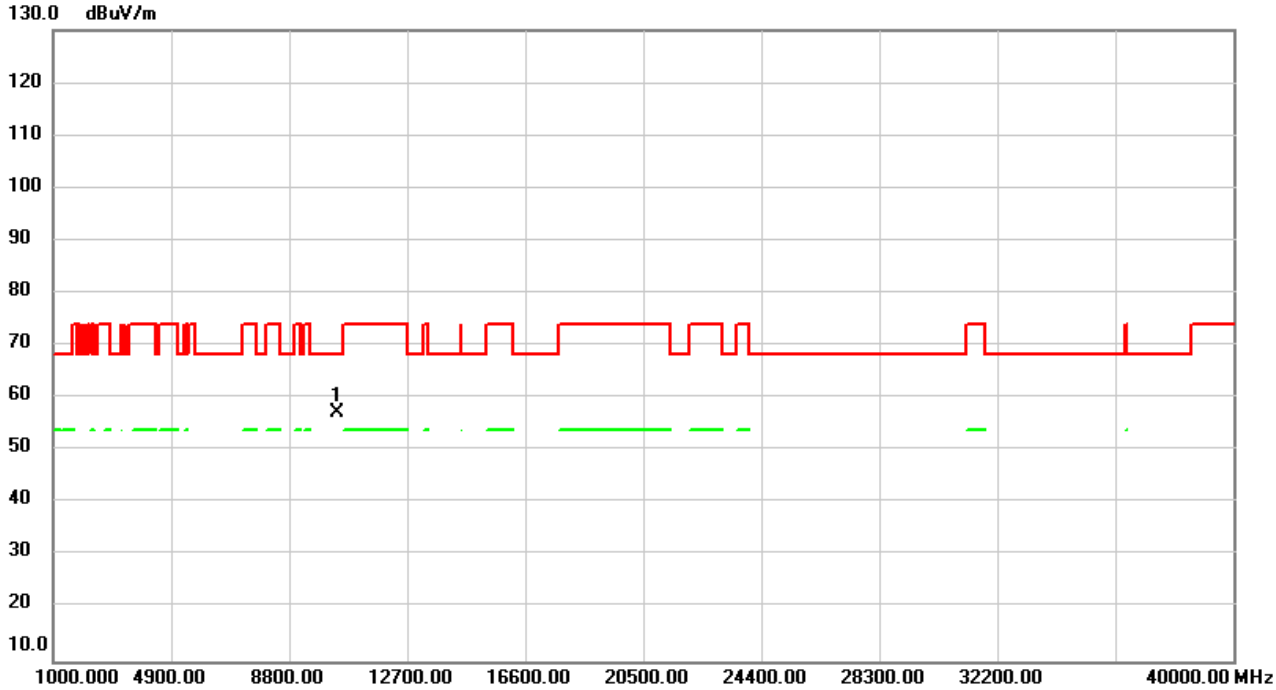
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5180MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	52.83	4.42	57.25	68.20	-10.95	peak	

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

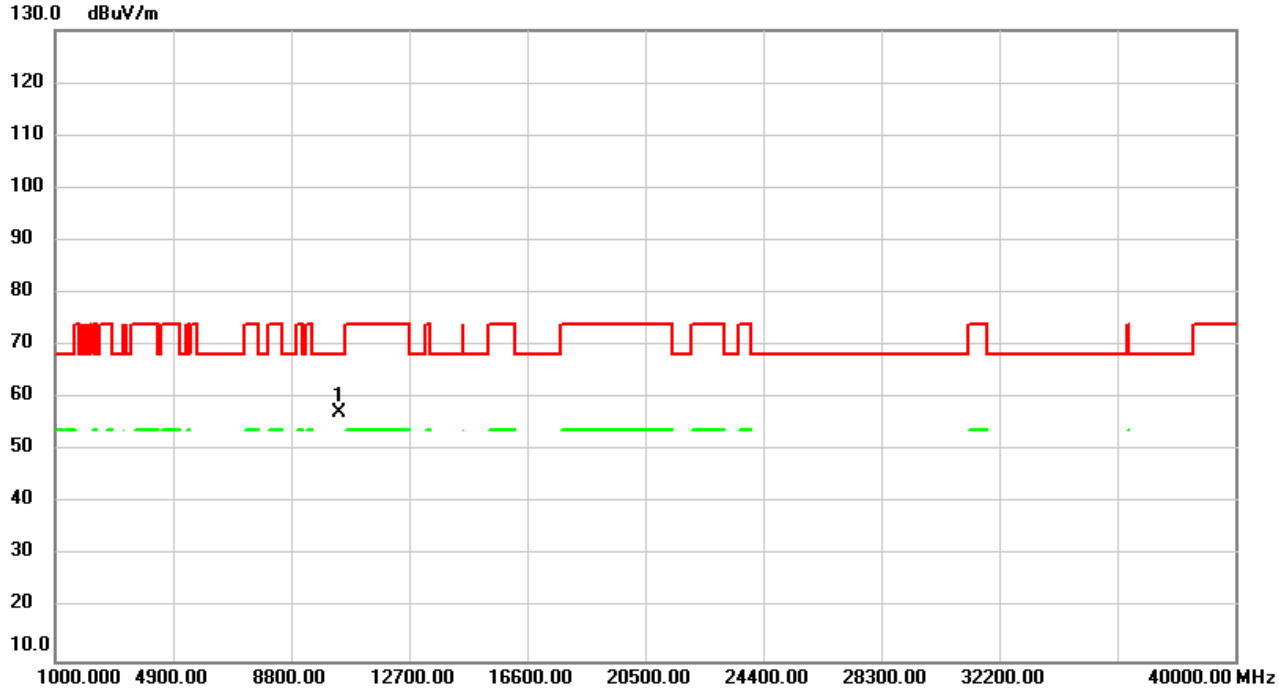
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5200MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	52.84	4.54	57.38	68.20	-10.82	peak	

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

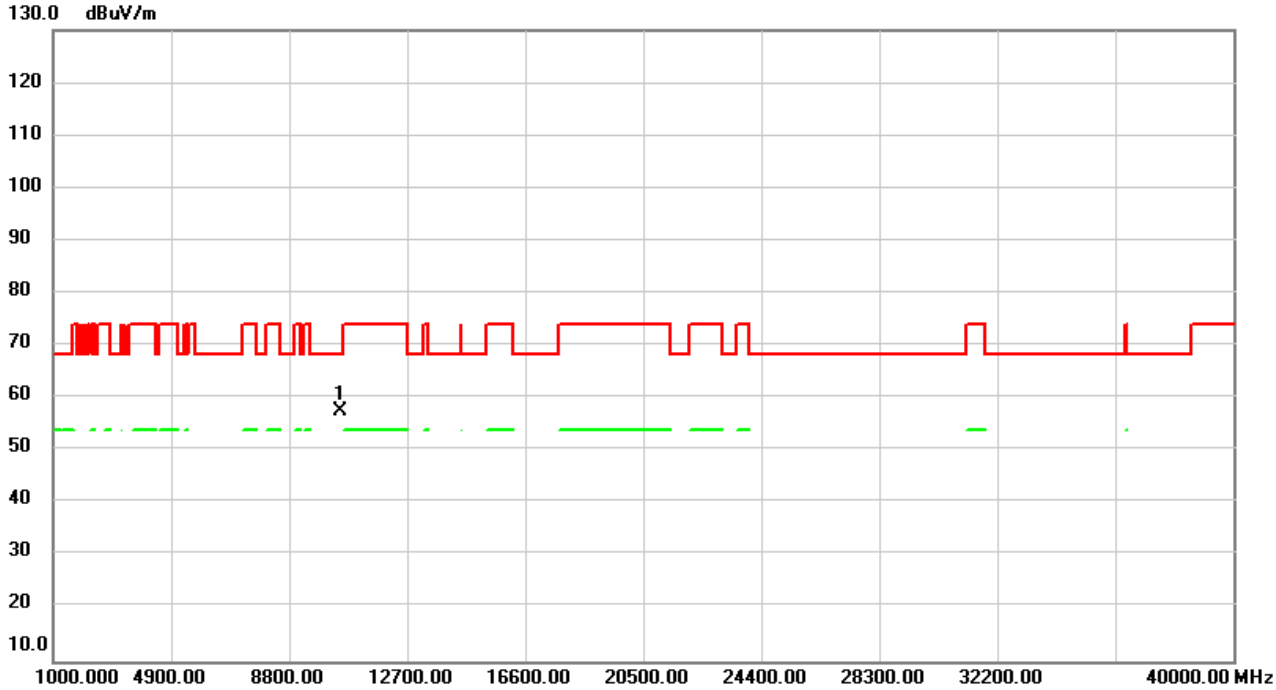
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5200MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	52.66	4.54	57.20	68.20	-11.00	peak	

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

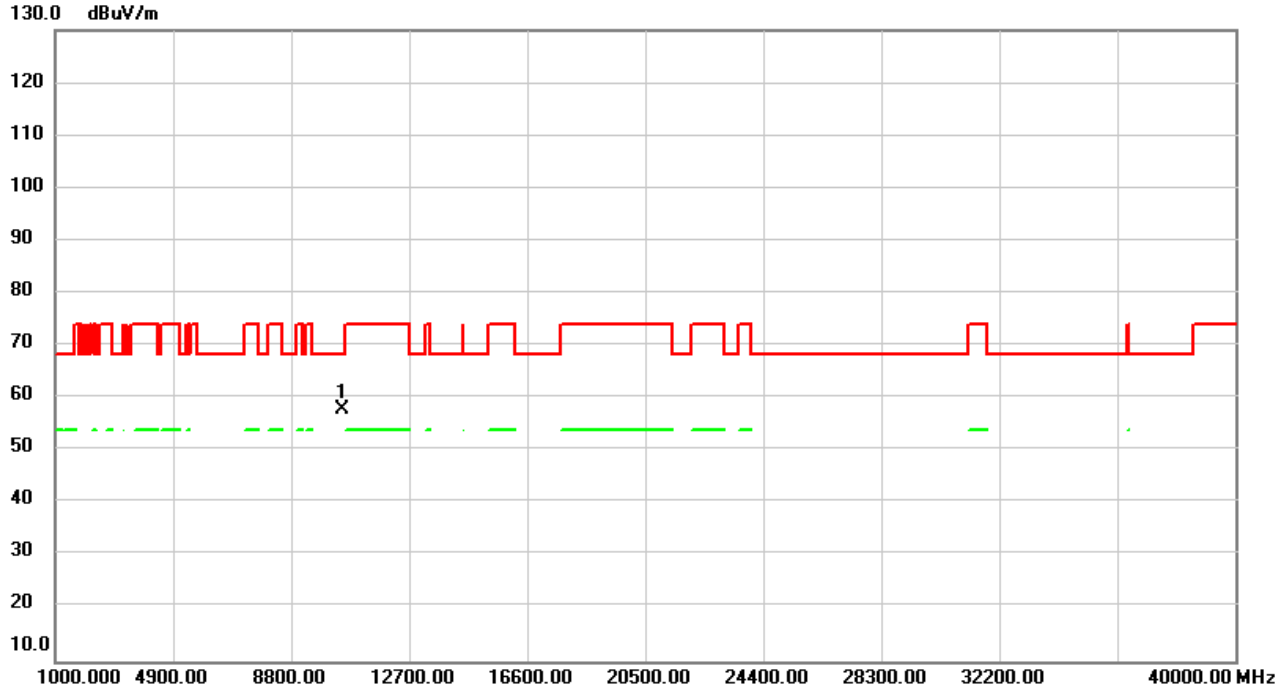
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5240MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	52.76	4.76	57.52	68.20	-10.68	peak	

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

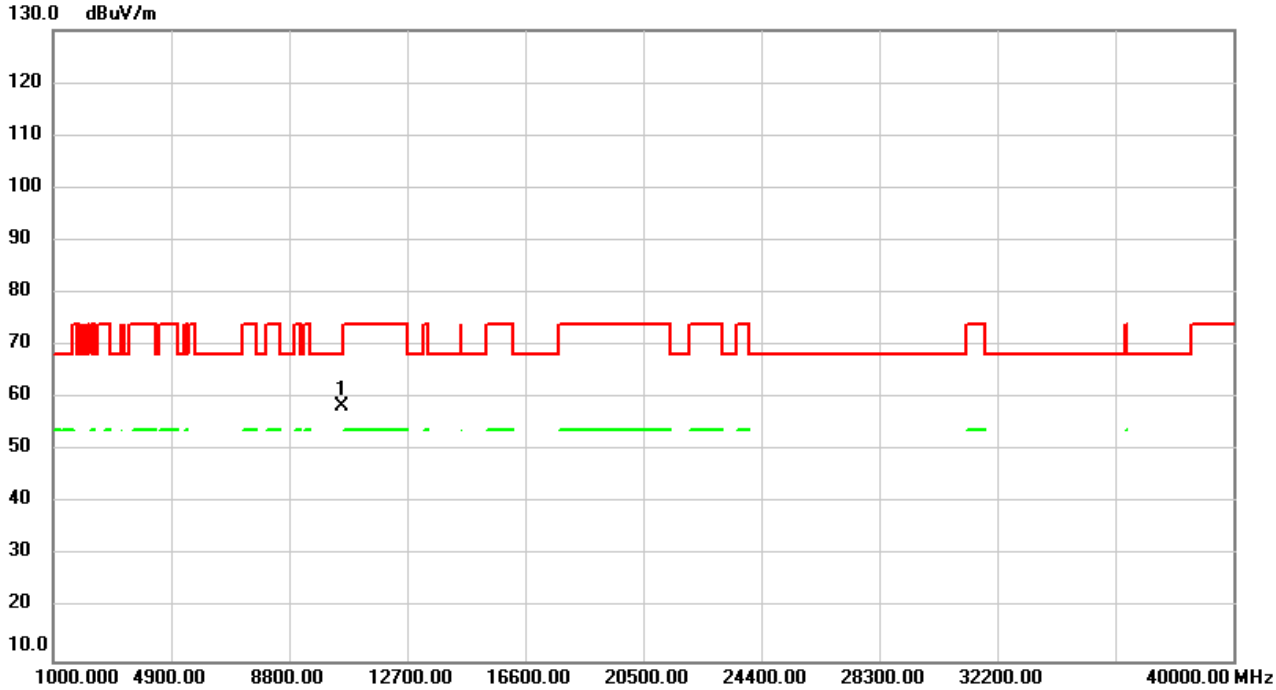
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5240MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	53.05	4.76	57.81	68.20	-10.39	peak	

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

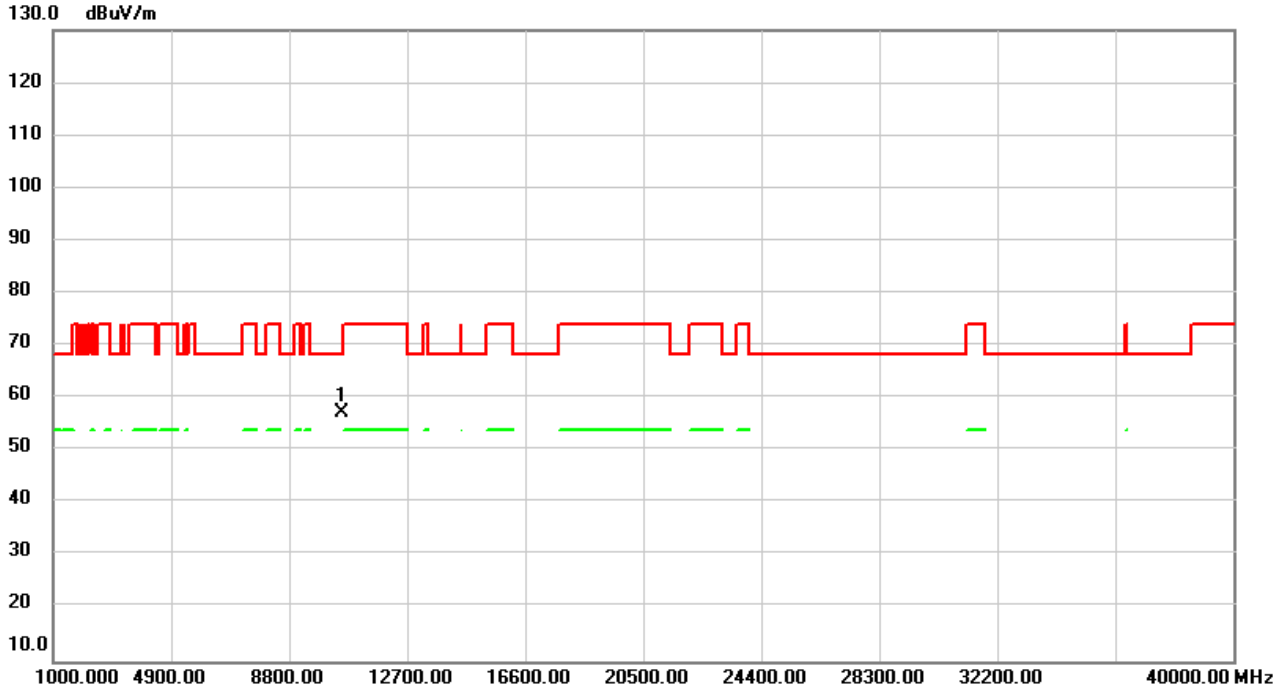
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5260MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10520.00	53.59	4.86	58.45	68.20	-9.75	peak	

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

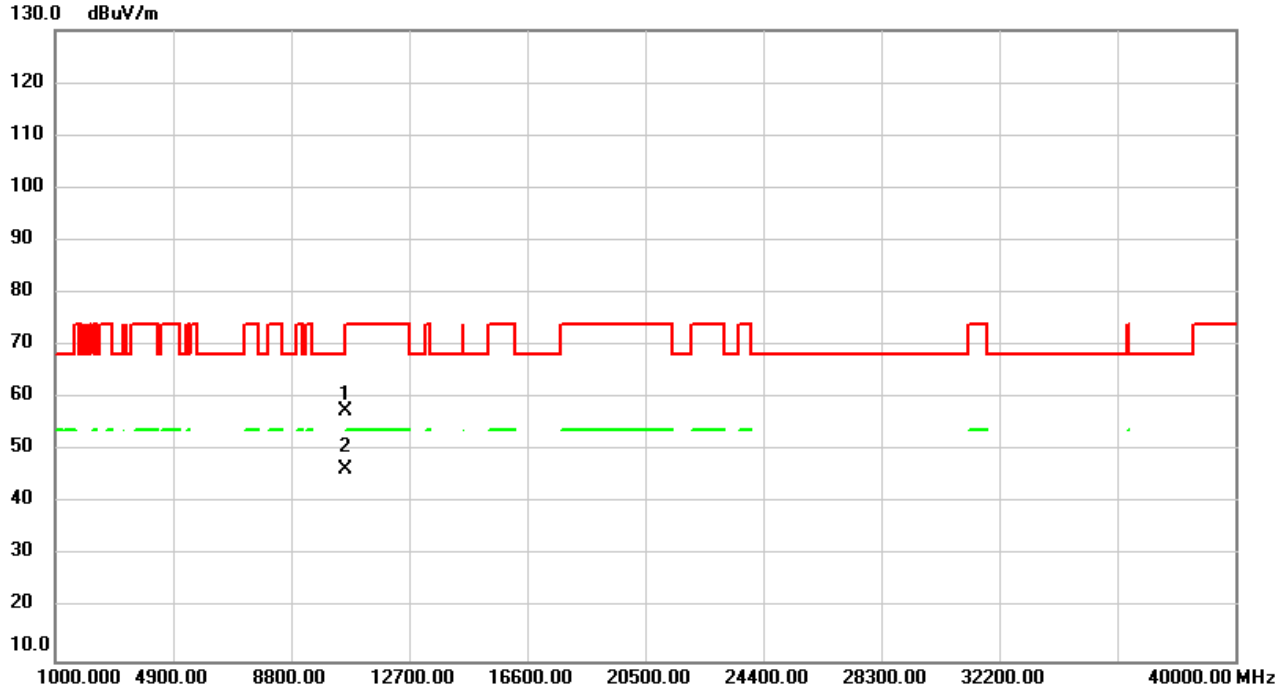
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5260MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10520.00	52.32	4.86	57.18	68.20	-11.02	peak	

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

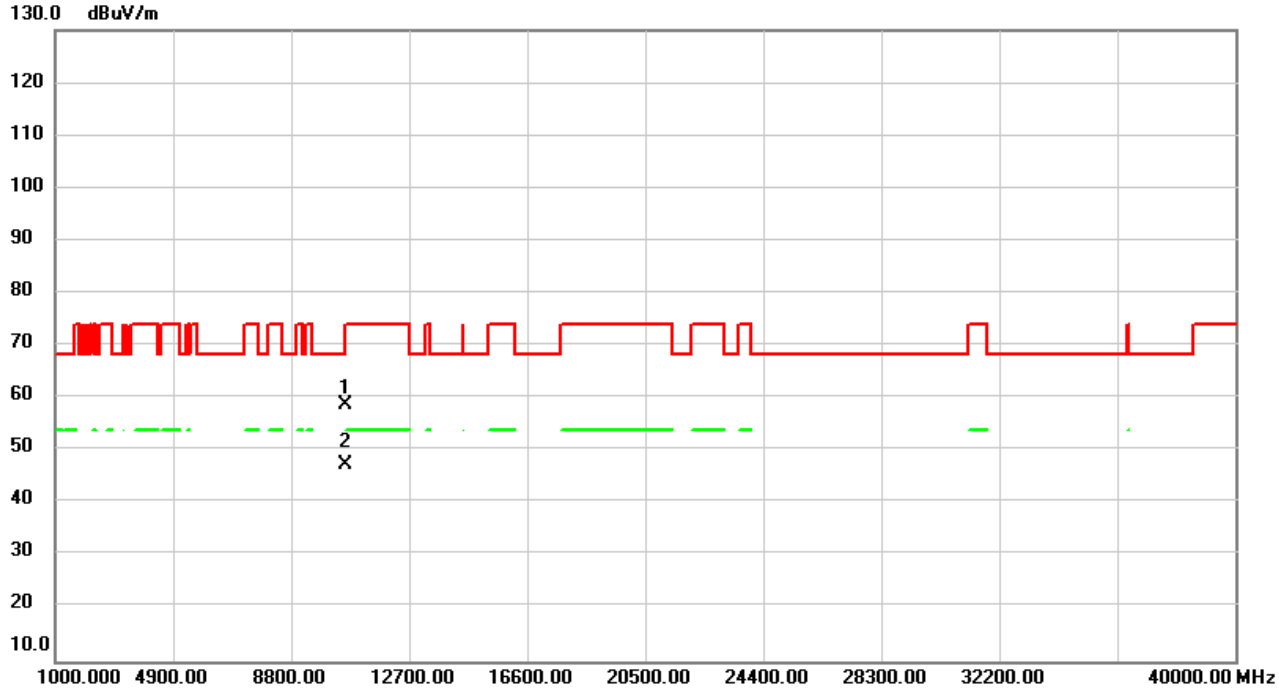
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5300MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10600.00	52.51	5.10	57.61	74.00	-16.39	peak	
2	*	10600.00	41.42	5.10	46.52	54.00	-7.48	AVG	

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

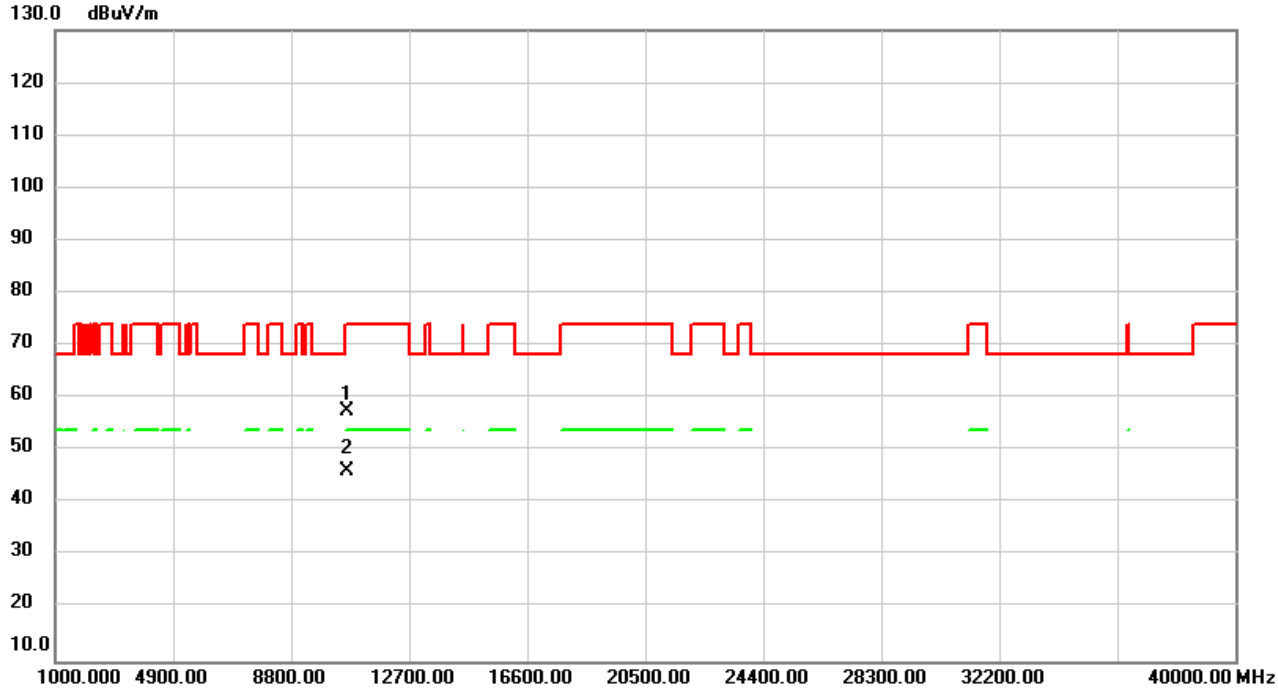
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5300MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10600.00	53.69	5.10	58.79	74.00	-15.21	peak	
2	*	10600.00	42.40	5.10	47.50	54.00	-6.50	AVG	

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

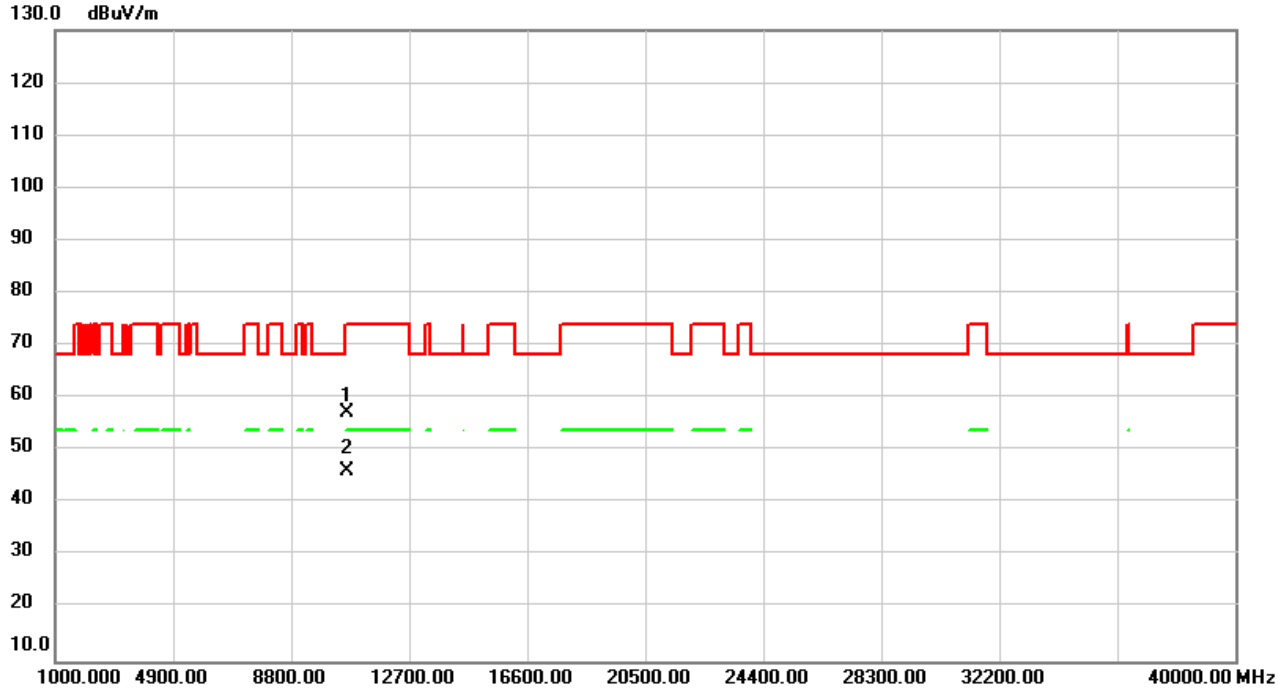
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5320MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10640.00	52.25	5.22	57.47	74.00	-16.53	peak	
2	*	10640.00	40.98	5.22	46.20	54.00	-7.80	AVG	

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

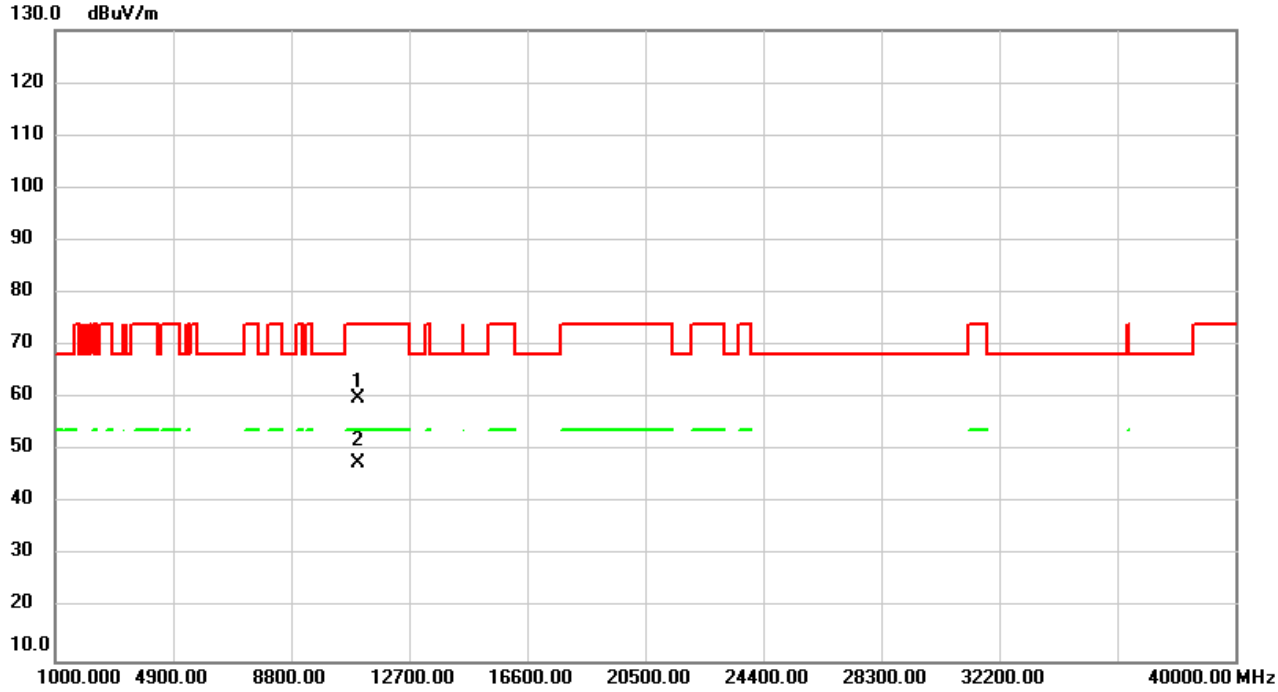
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5320MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10640.00	52.15	5.22	57.37	74.00	-16.63	peak	
2	*	10640.00	40.92	5.22	46.14	54.00	-7.86	AVG	

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

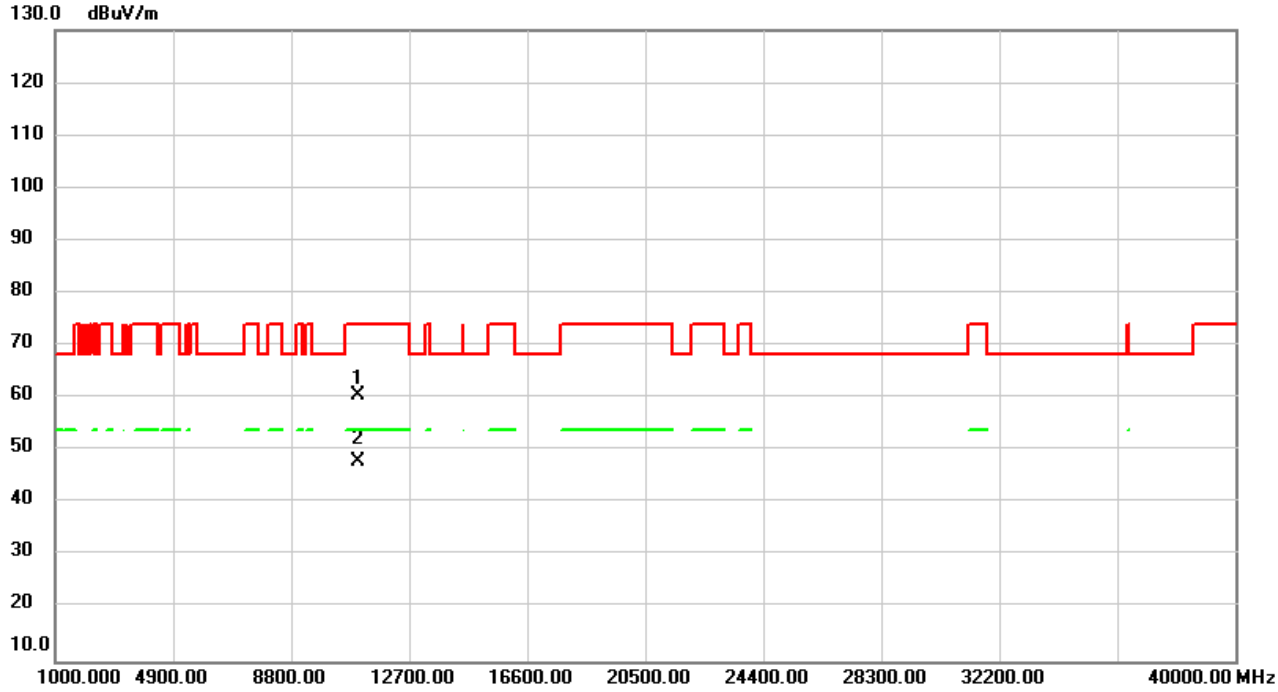
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5500MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11000.00	53.59	6.27	59.86	74.00	-14.14	peak	
2	*	11000.00	41.47	6.27	47.74	54.00	-6.26	AVG	

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

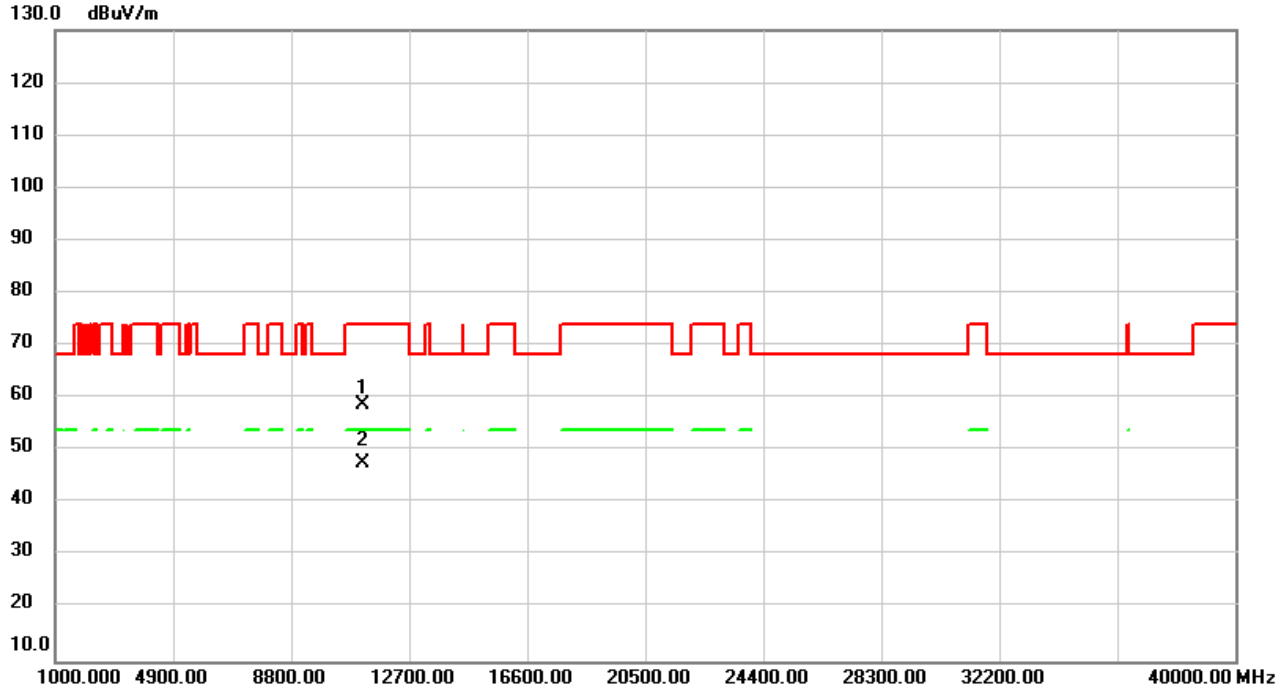
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5500MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11000.00	54.19	6.27	60.46	74.00	-13.54	peak	
2	*	11000.00	41.71	6.27	47.98	54.00	-6.02	AVG	

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

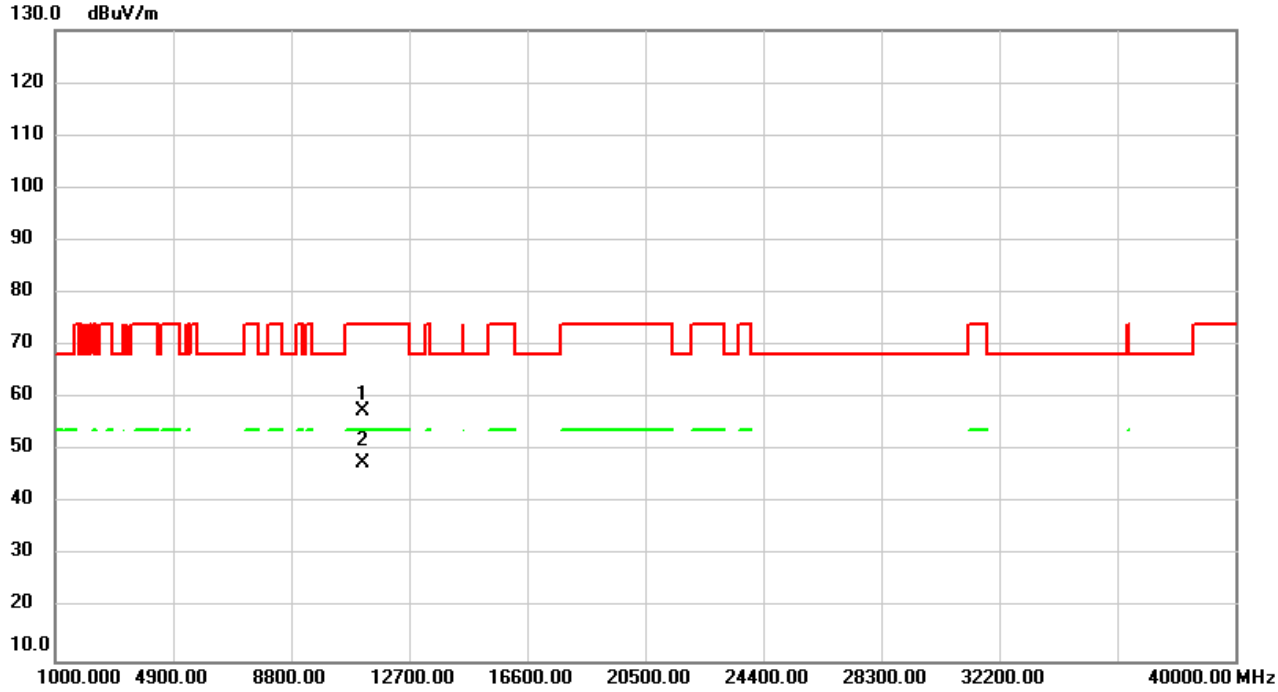
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5580MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11160.00	52.79	5.93	58.72	74.00	-15.28	peak	
2	*	11160.00	41.68	5.93	47.61	54.00	-6.39	AVG	

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

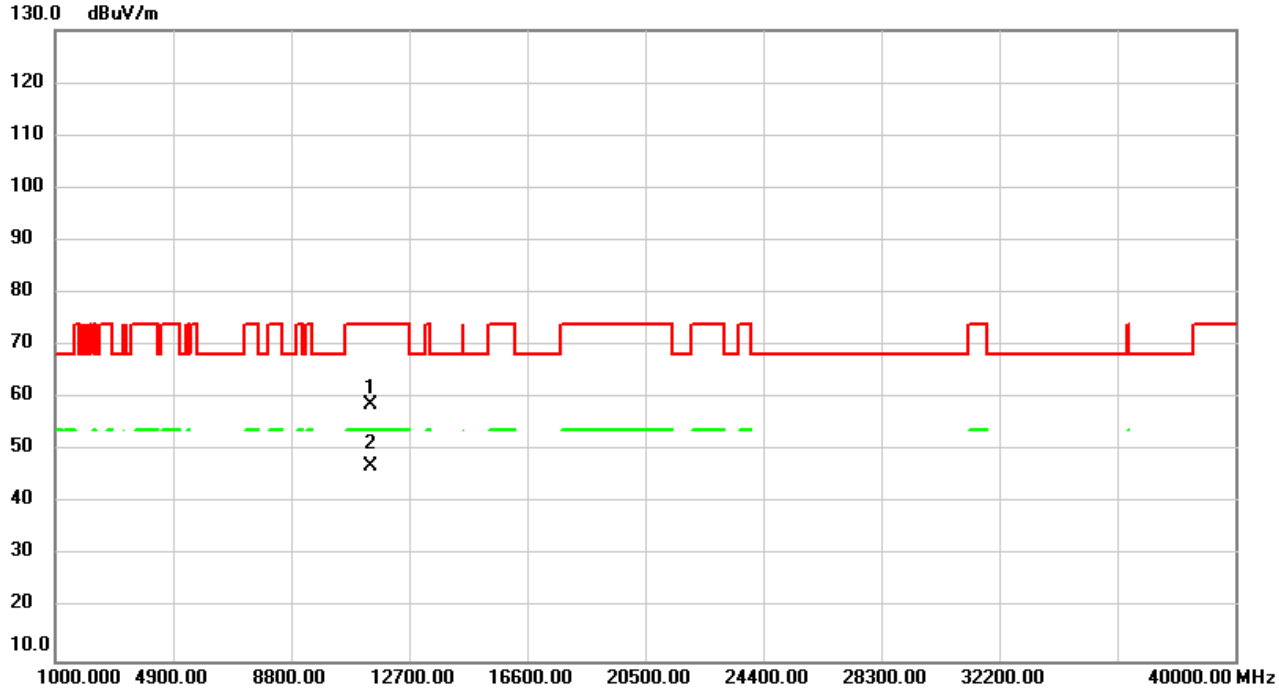
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5580MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11160.00	51.73	5.93	57.66	74.00	-16.34	peak	
2	*	11160.00	41.85	5.93	47.78	54.00	-6.22	AVG	

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

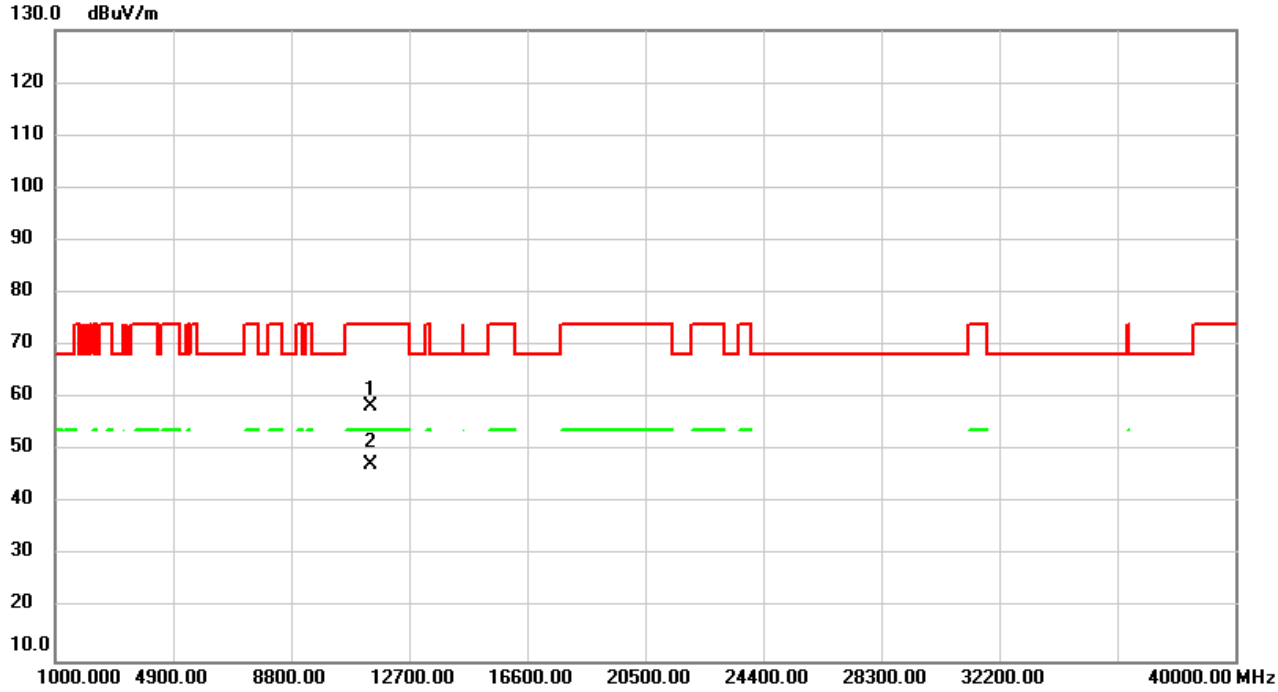
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5700MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11400.00	53.18	5.44	58.62	74.00	-15.38	peak	
2	*	11400.00	41.62	5.44	47.06	54.00	-6.94	AVG	

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

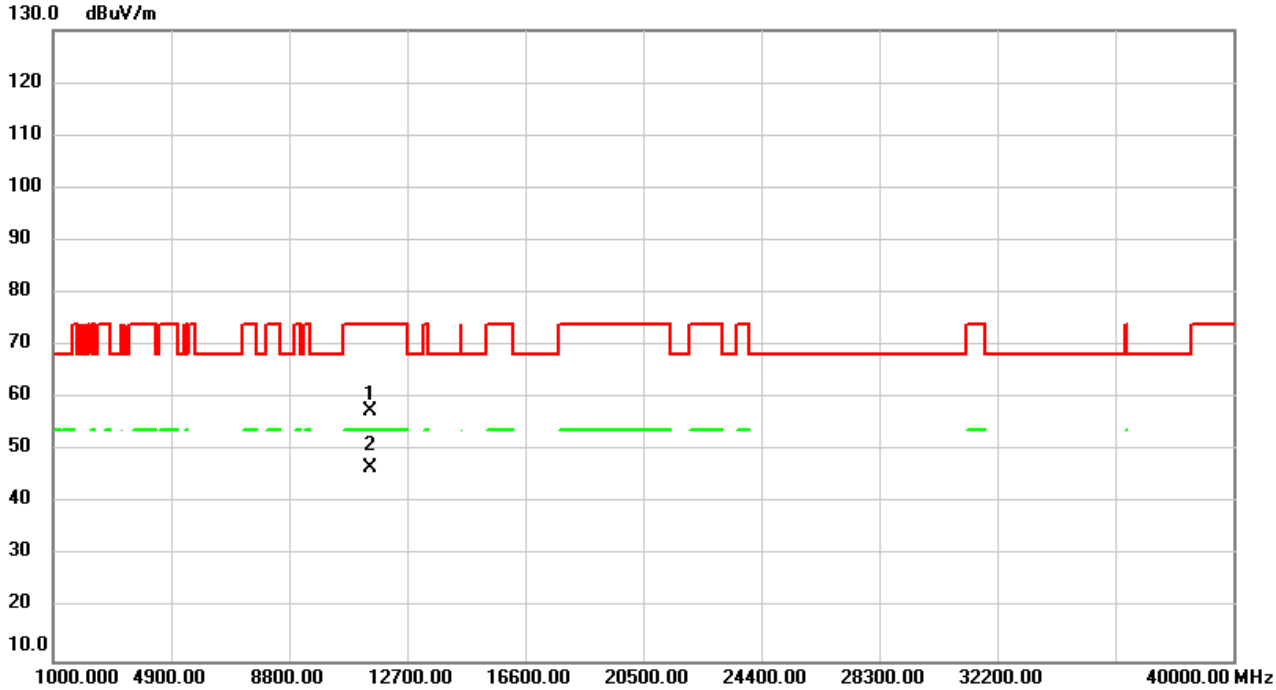
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5700MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11400.00	52.96	5.44	58.40	74.00	-15.60	peak	
2	*	11400.00	41.85	5.44	47.29	54.00	-6.71	AVG	

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

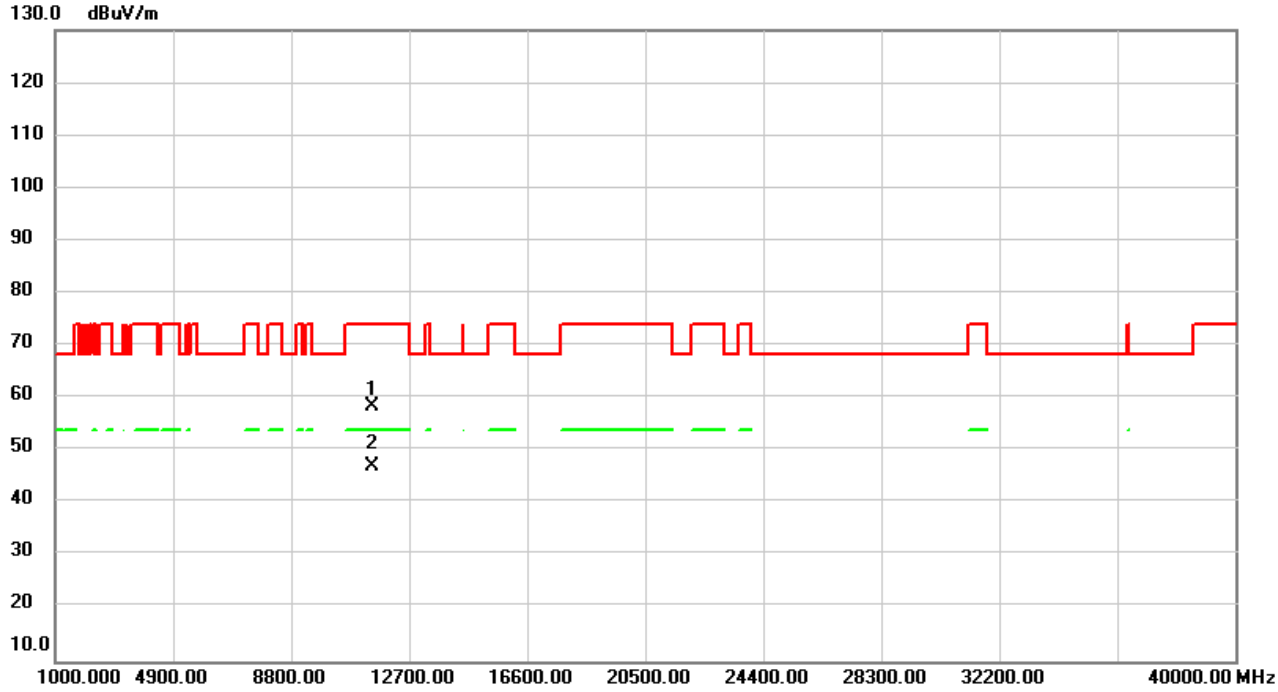
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5745MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	52.33	5.26	57.59	74.00	-16.41	peak	
2	*	11490.00	41.44	5.26	46.70	54.00	-7.30	AVG	

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

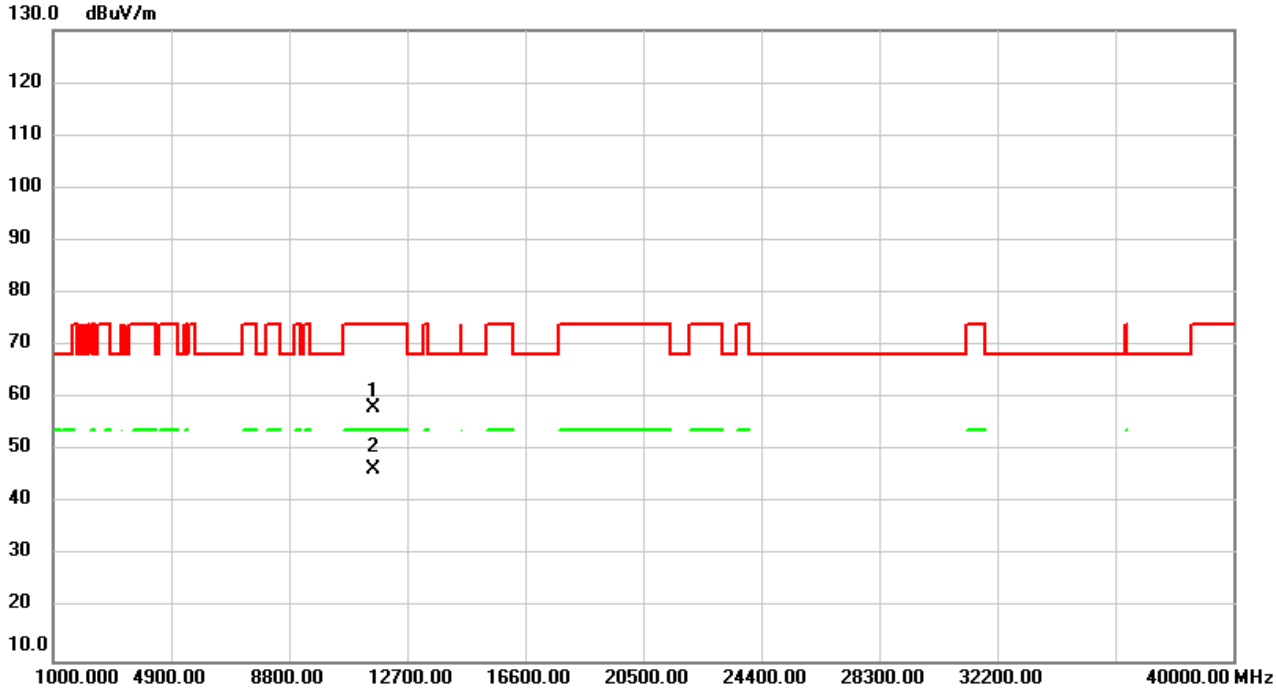
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5745MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	53.11	5.26	58.37	74.00	-15.63	peak	
2	*	11490.00	41.66	5.26	46.92	54.00	-7.08	AVG	

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

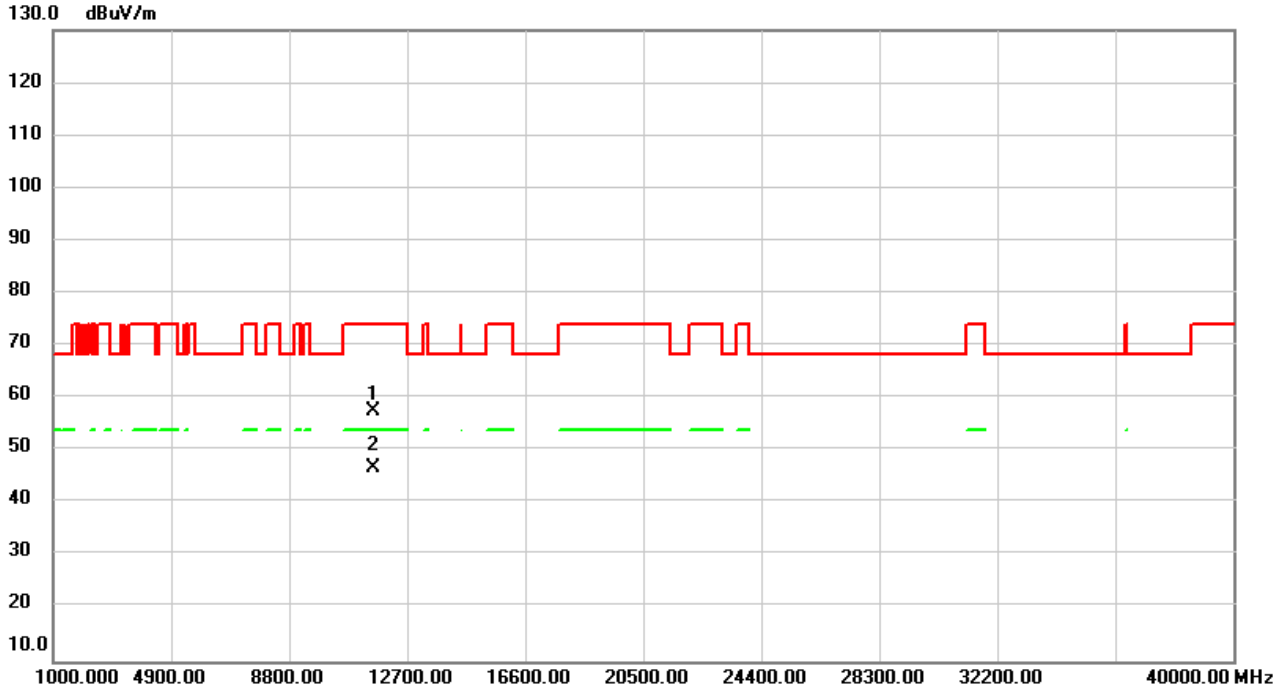
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5785MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	53.17	5.06	58.23	74.00	-15.77	peak	
2	*	11570.00	41.45	5.06	46.51	54.00	-7.49	AVG	

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

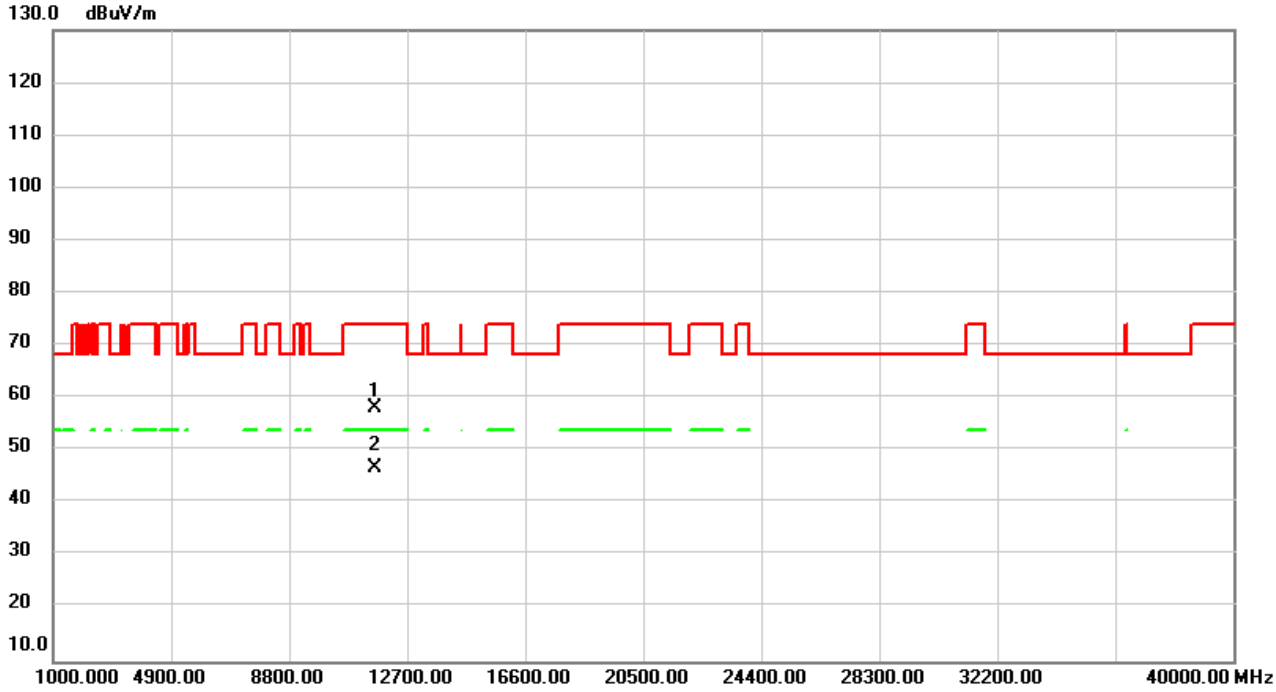
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5785MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	52.57	5.06	57.63	74.00	-16.37	peak	
2	*	11570.00	41.59	5.06	46.65	54.00	-7.35	AVG	

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

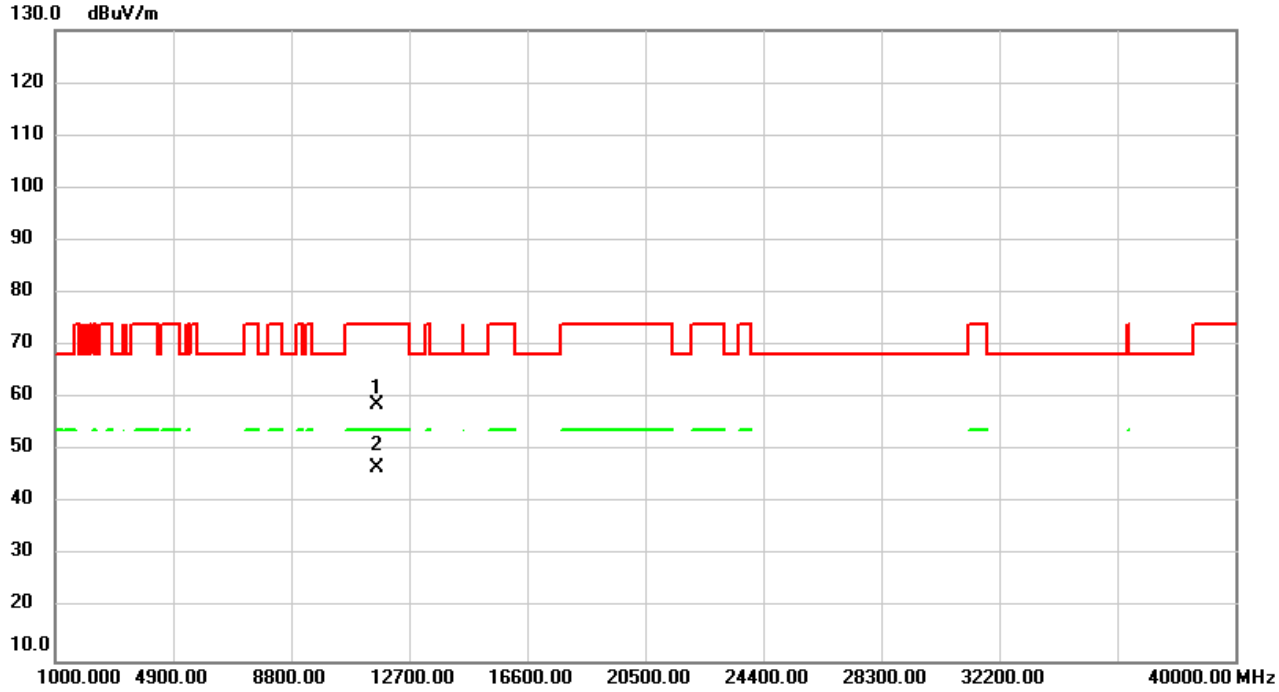
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5825MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	53.30	4.85	58.15	74.00	-15.85	peak	
2	*	11650.00	41.85	4.85	46.70	54.00	-7.30	AVG	

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

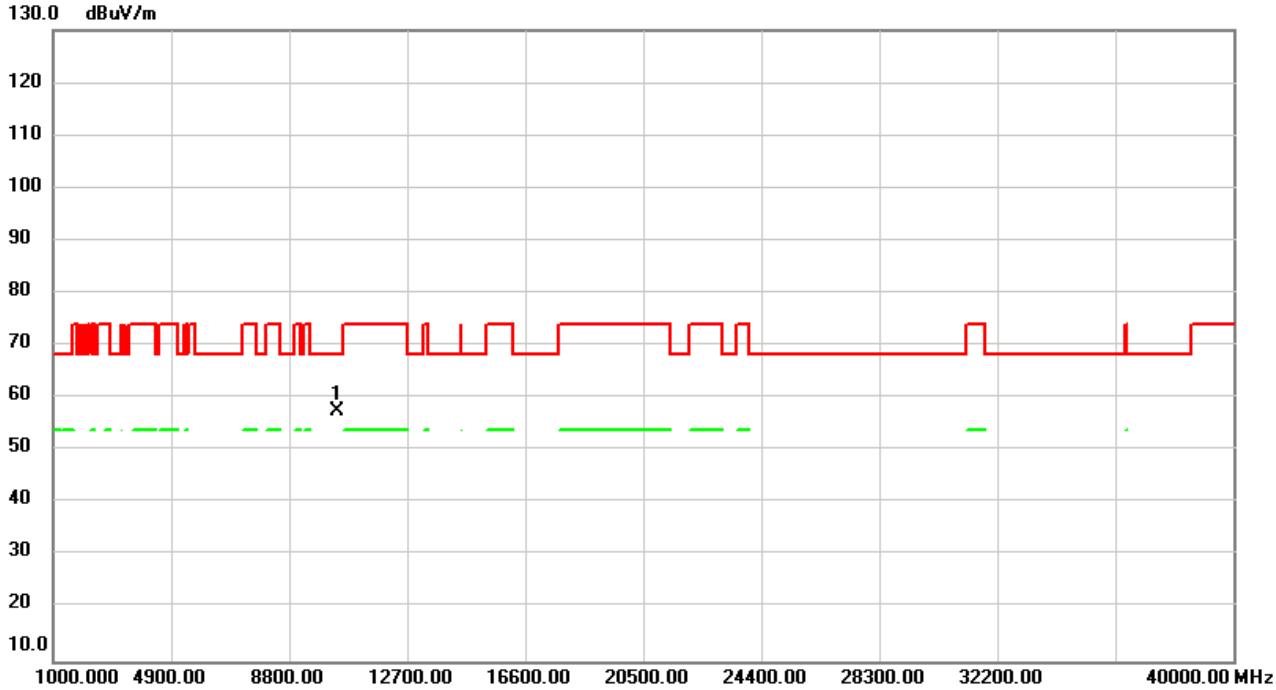
Test Mode	IEEE 802.11a	Test Date	2022/3/21
Test Frequency	5825MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	53.95	4.85	58.80	74.00	-15.20	peak	
2	*	11650.00	41.93	4.85	46.78	54.00	-7.22	AVG	

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

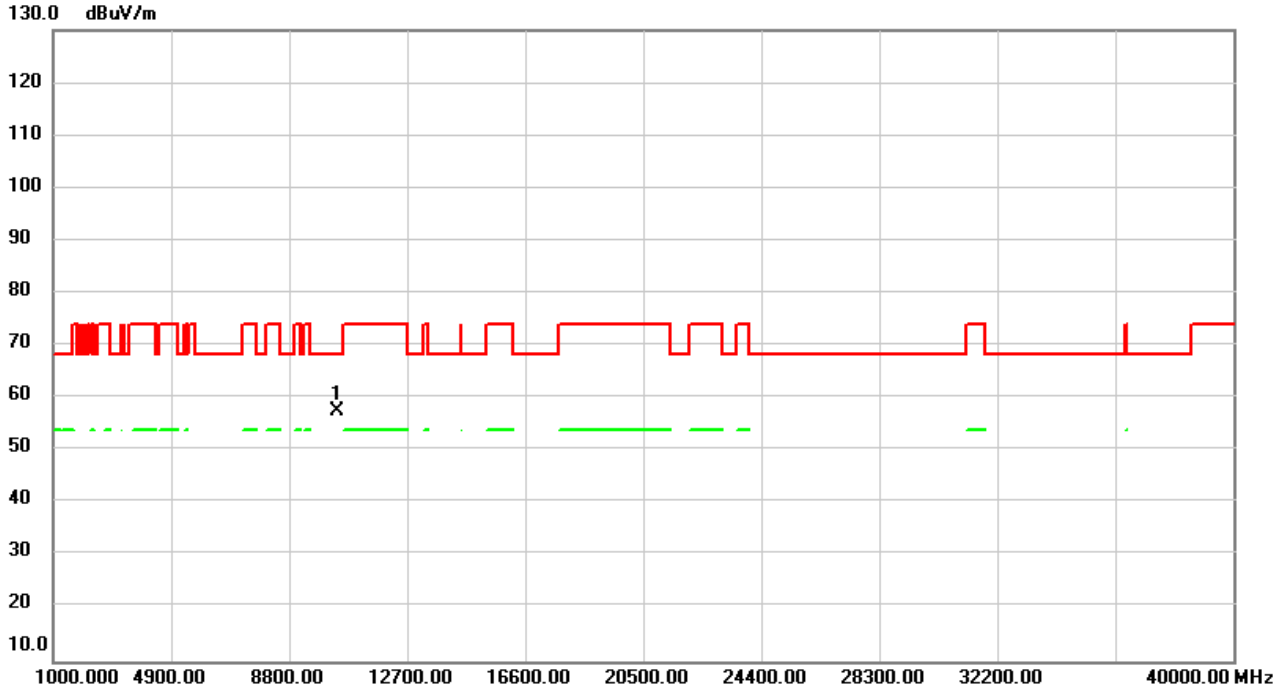
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5180MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	53.01	4.42	57.43	68.20	-10.77	peak	

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

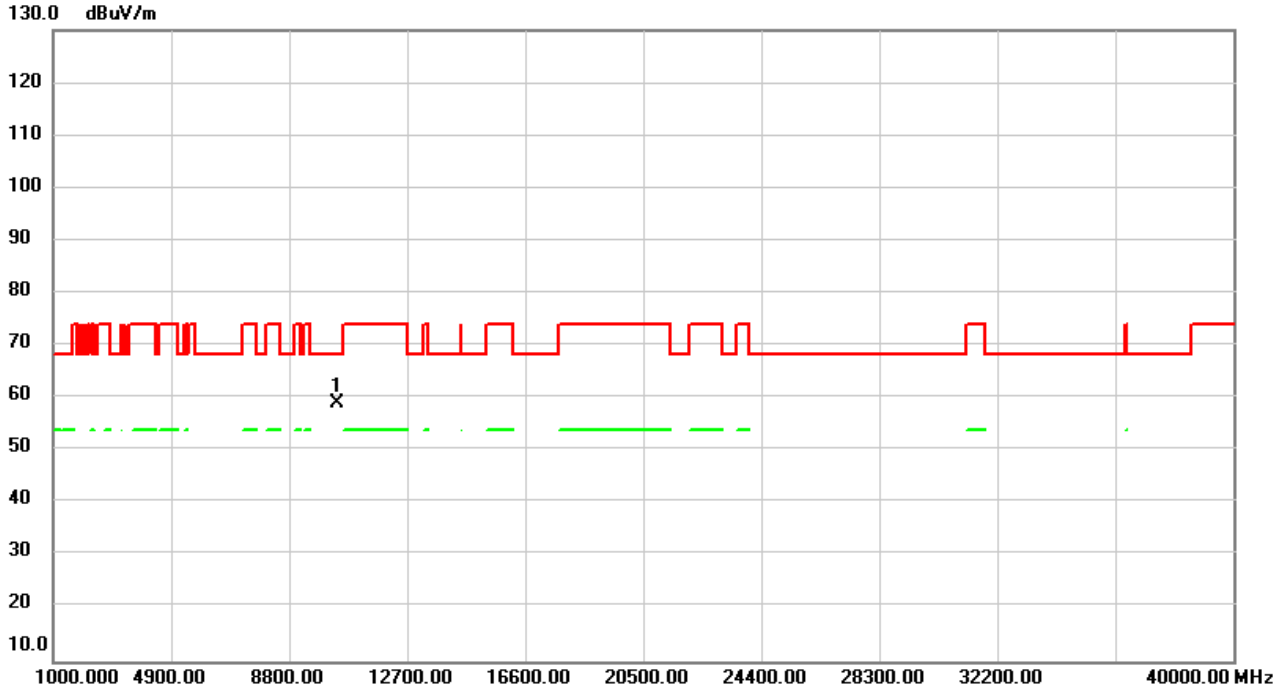
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5180MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	53.06	4.42	57.48	68.20	-10.72	peak	

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

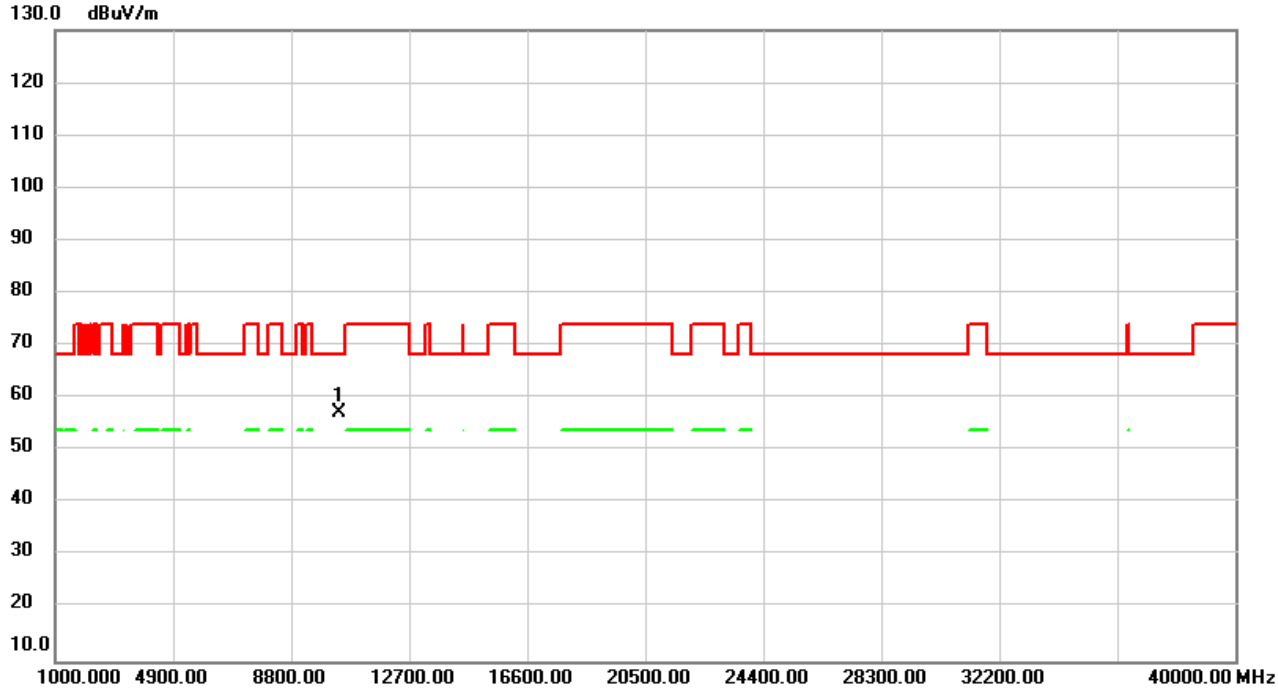
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5200MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	54.63	4.54	59.17	68.20	-9.03	peak	

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

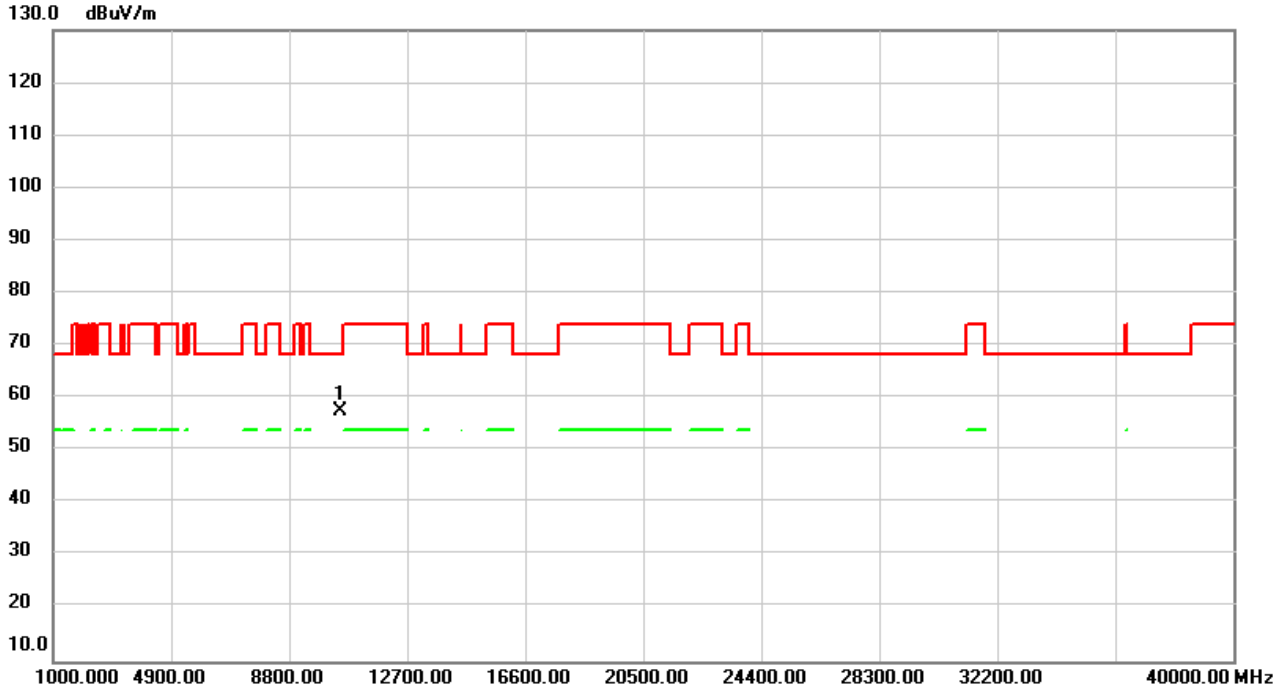
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5200MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	52.75	4.54	57.29	68.20	-10.91	peak	

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

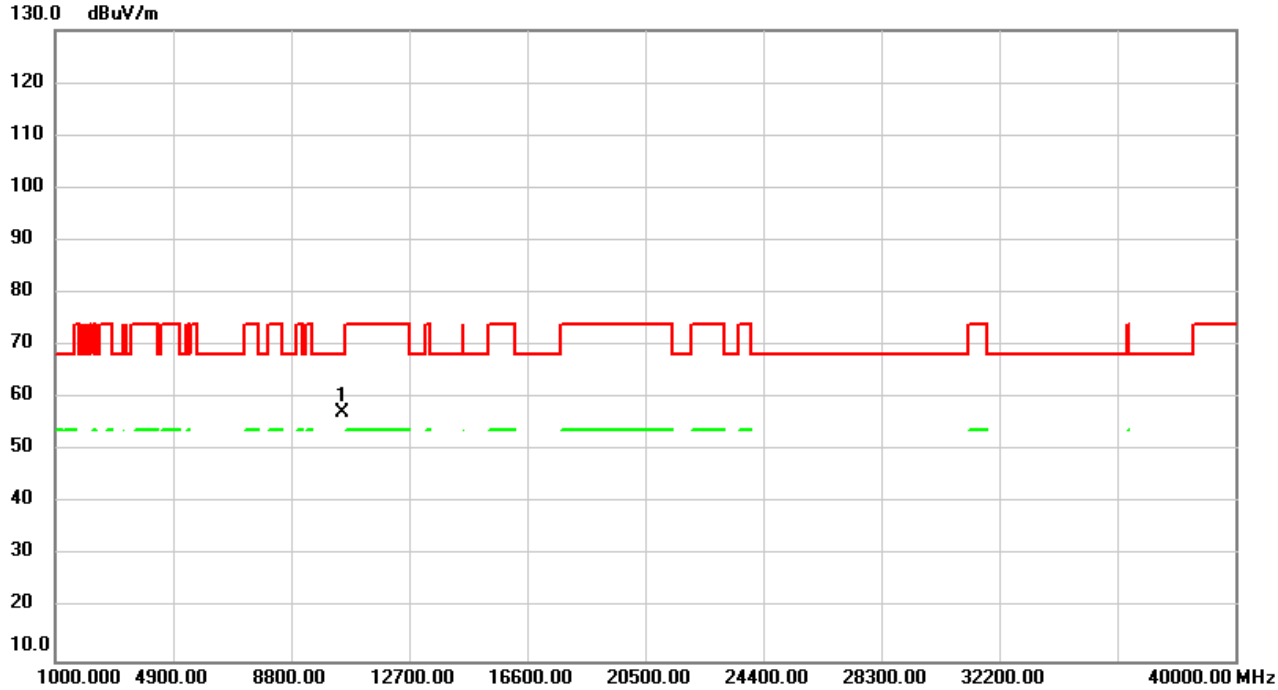
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5240MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	52.70	4.76	57.46	68.20	-10.74	peak	

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

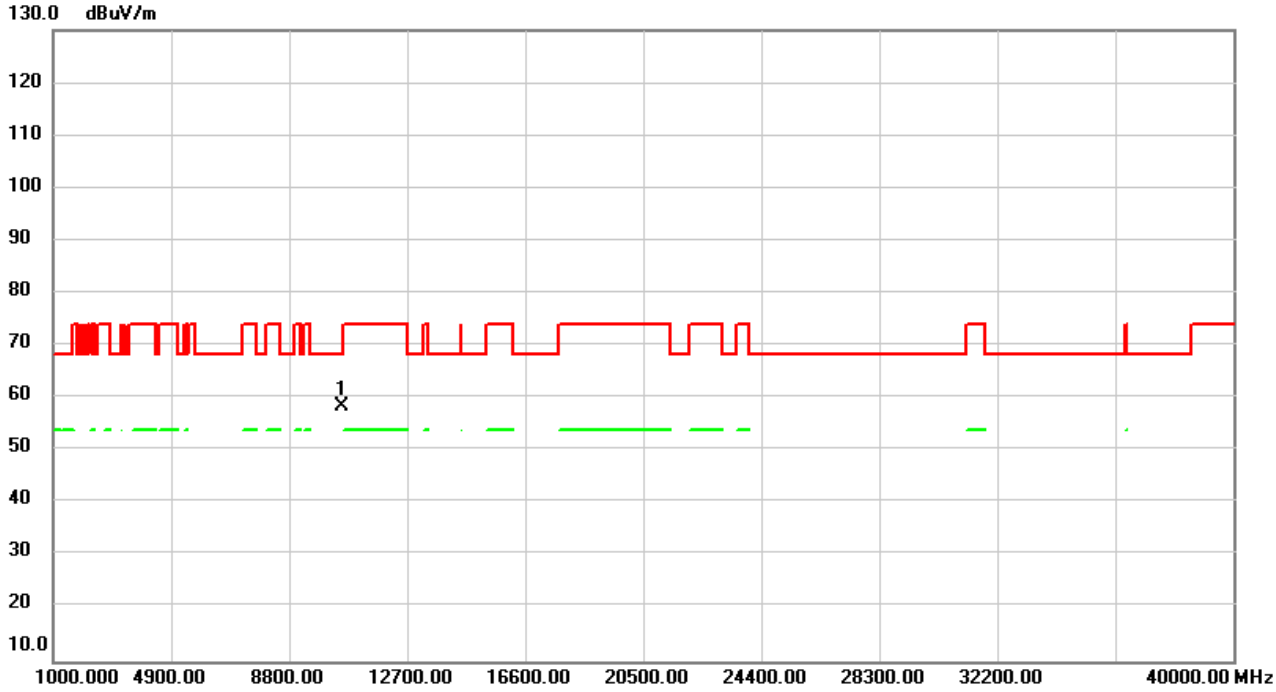
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5240MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	52.38	4.76	57.14	68.20	-11.06	peak	

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

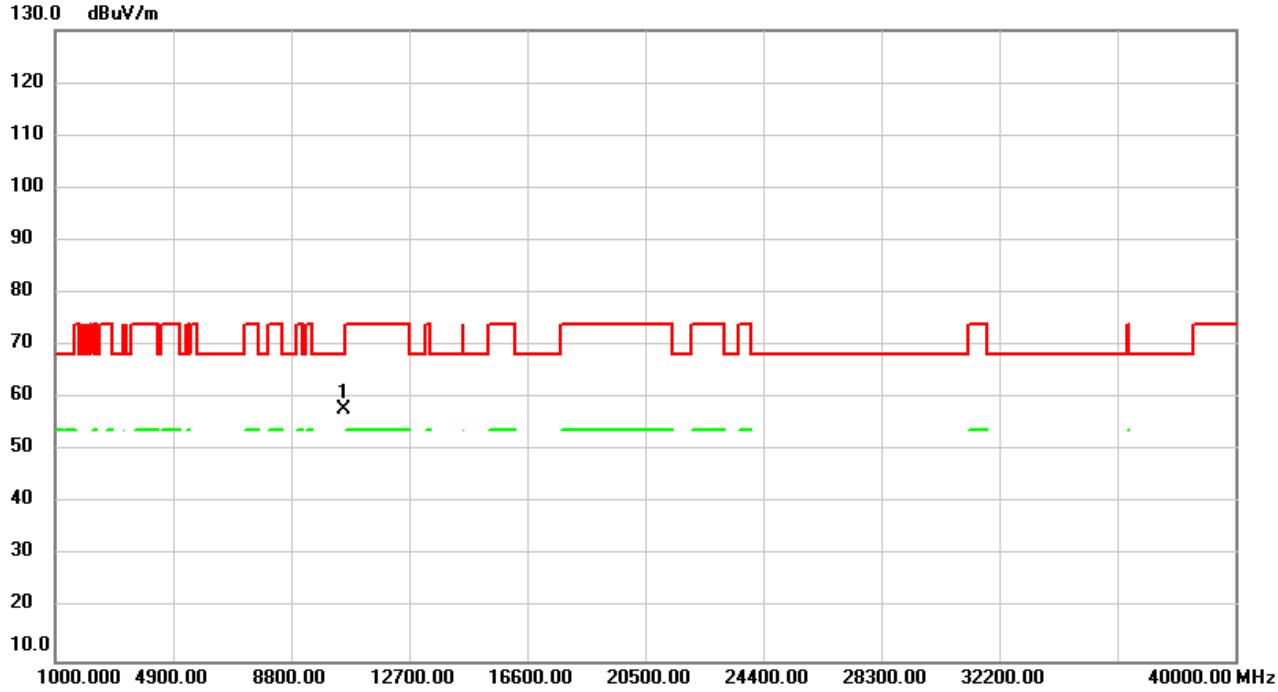
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5260MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10520.00	53.51	4.86	58.37	68.20	-9.83	peak	

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

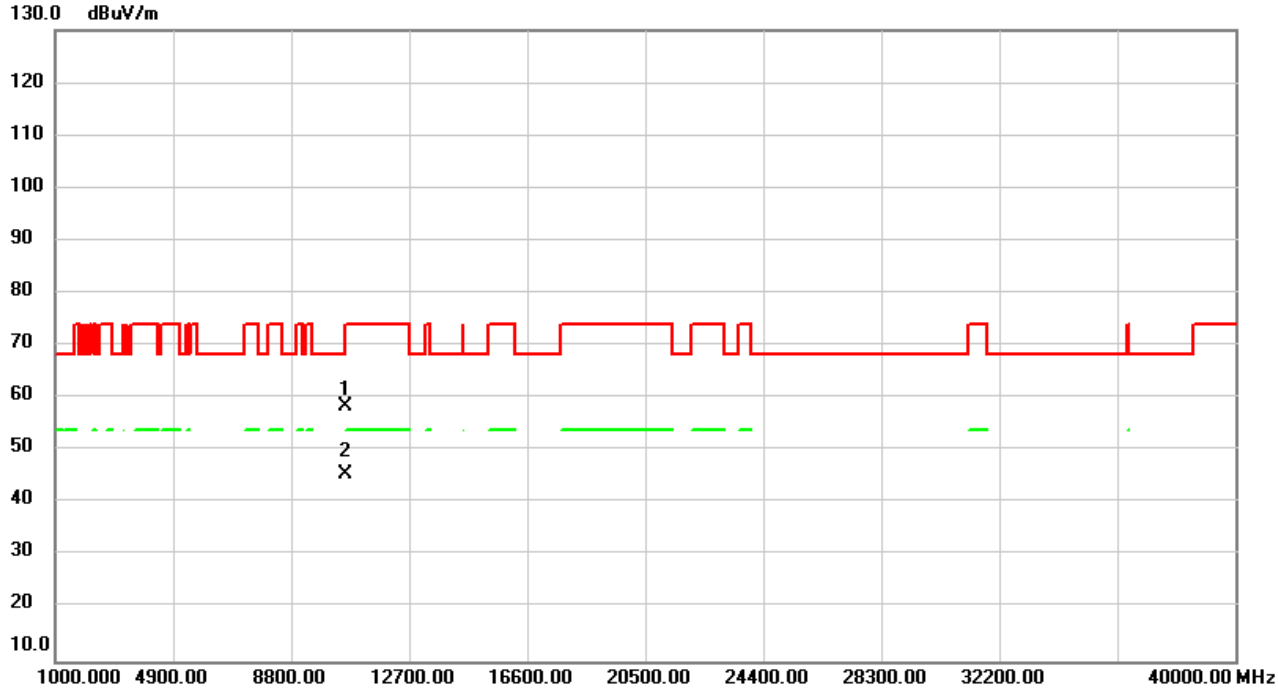
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5260MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10520.00	52.87	4.86	57.73	68.20	-10.47	peak	

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

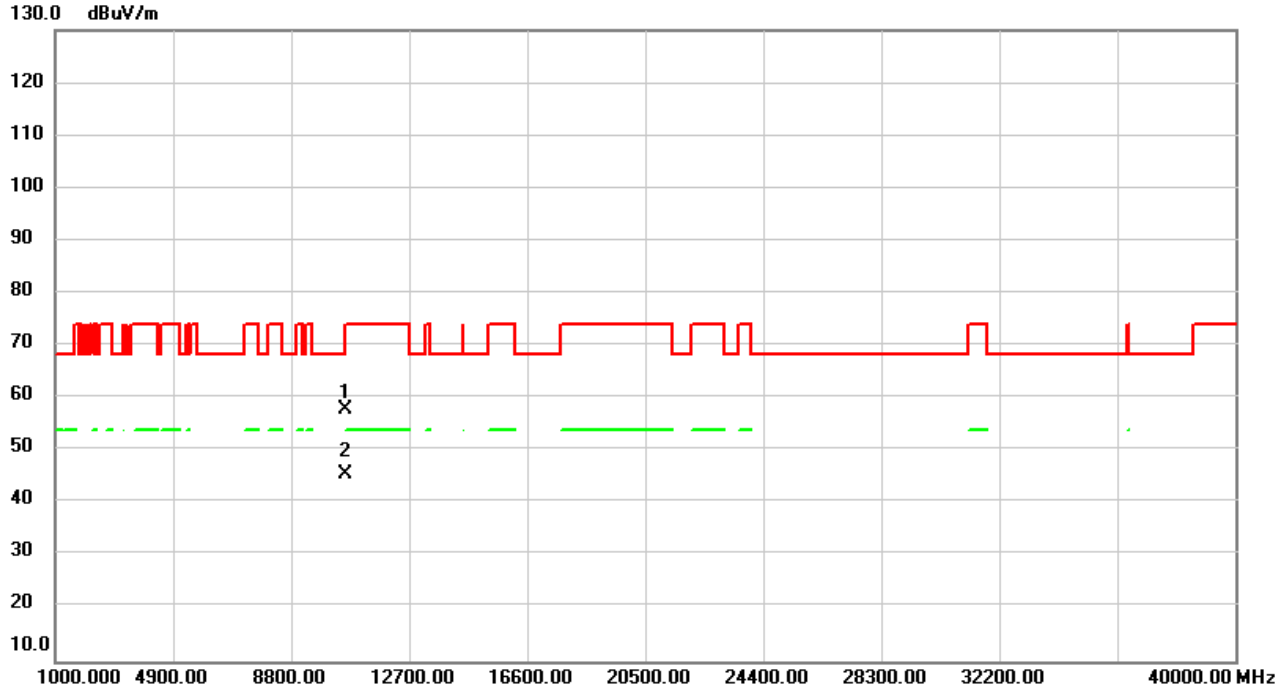
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5300MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10600.00	53.46	5.10	58.56	74.00	-15.44	peak	
2	*	10600.00	40.52	5.10	45.62	54.00	-8.38	AVG	

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

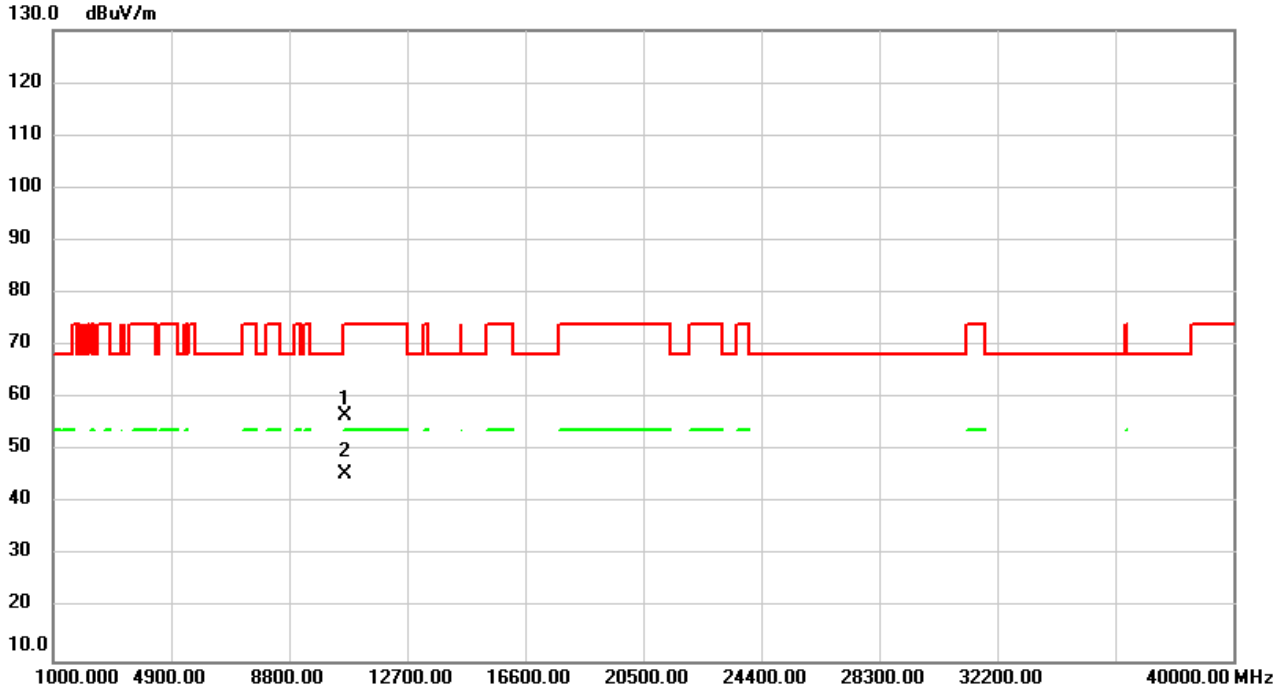
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5300MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10600.00	52.85	5.10	57.95	74.00	-16.05	peak	
2	*	10600.00	40.48	5.10	45.58	54.00	-8.42	AVG	

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

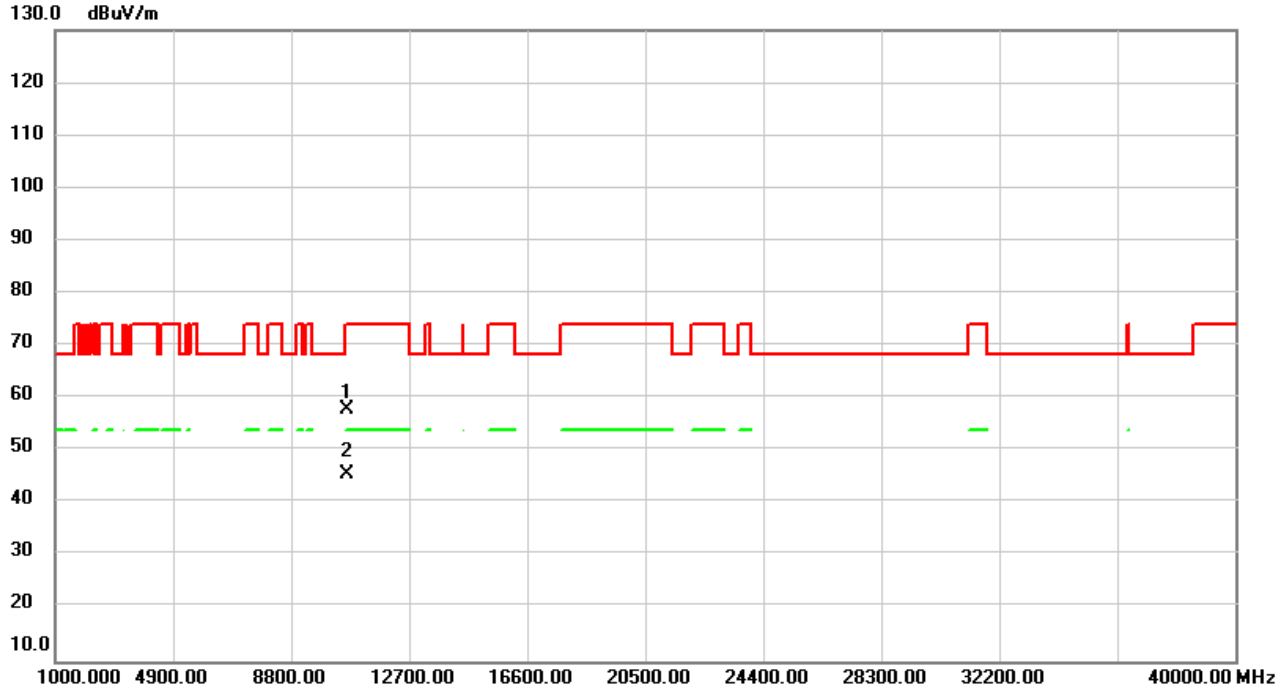
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5320MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10640.00	51.43	5.22	56.65	74.00	-17.35	peak	
2	*	10640.00	40.38	5.22	45.60	54.00	-8.40	AVG	

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

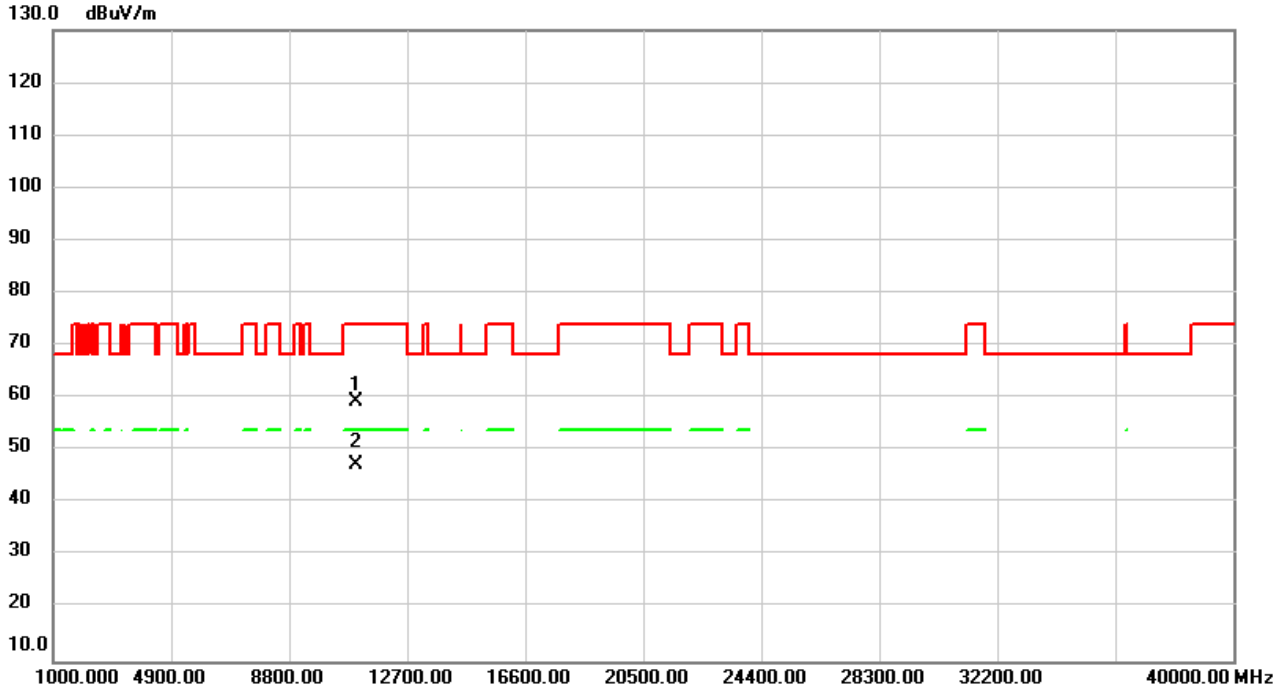
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5320MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10640.00	52.66	5.22	57.88	74.00	-16.12	peak	
2	*	10640.00	40.34	5.22	45.56	54.00	-8.44	AVG	

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

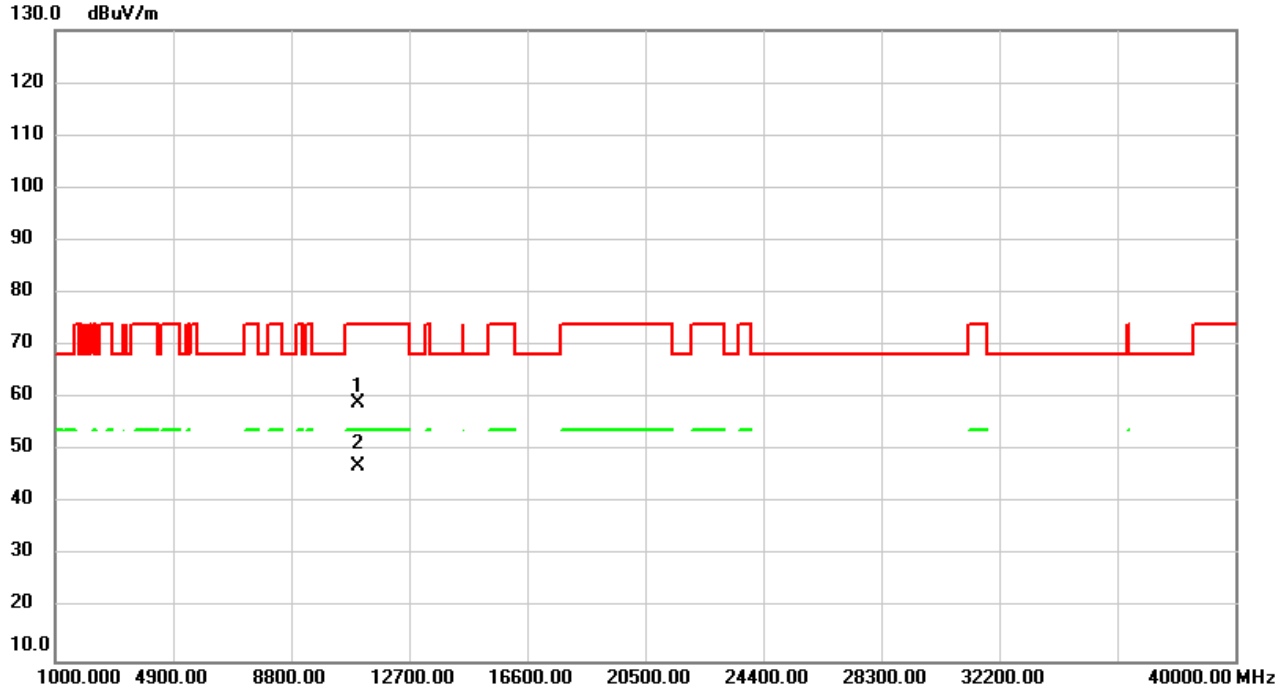
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5500MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11000.00	52.98	6.27	59.25	74.00	-14.75	peak	
2	*	11000.00	41.00	6.27	47.27	54.00	-6.73	AVG	

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

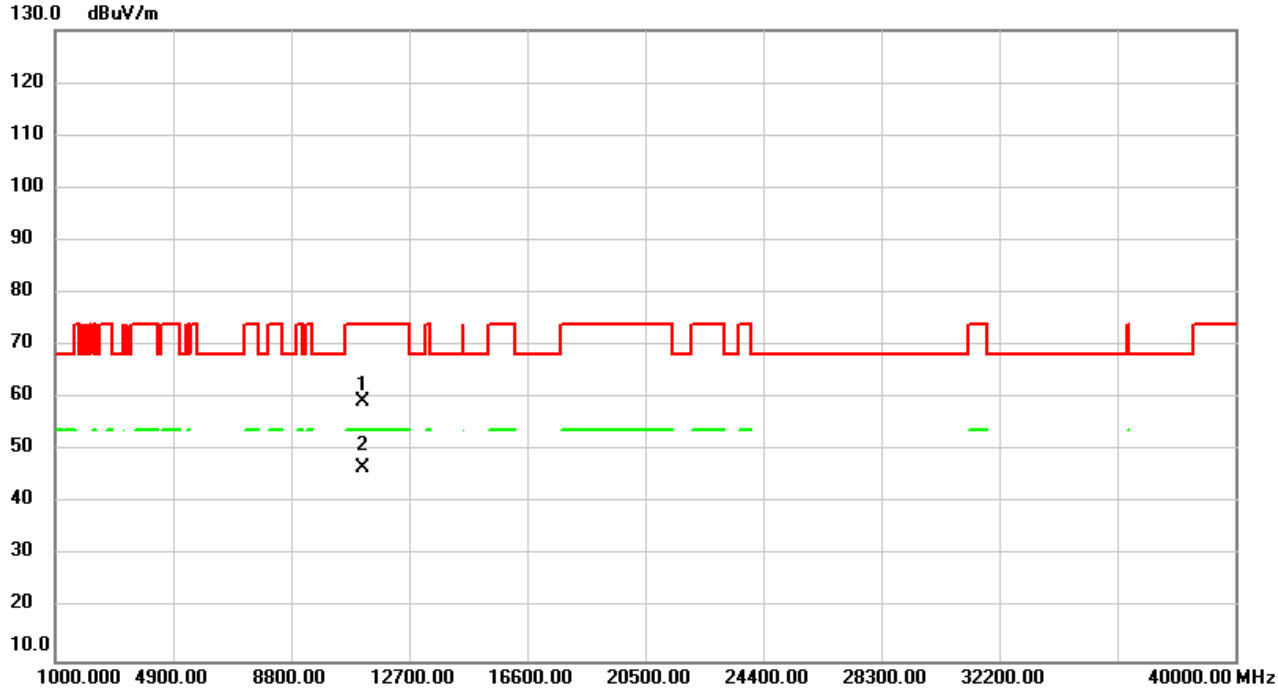
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5500MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11000.00	52.83	6.27	59.10	74.00	-14.90	peak	
2	*	11000.00	40.85	6.27	47.12	54.00	-6.88	AVG	

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

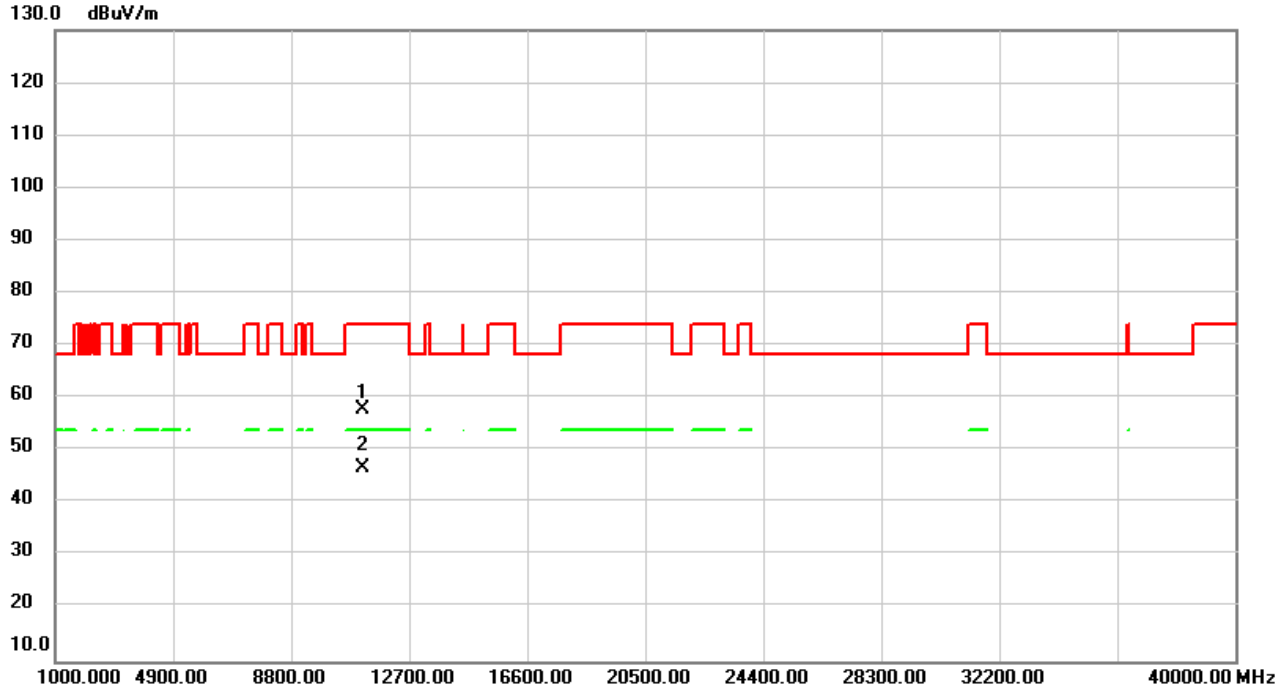
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5580MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11160.00	53.56	5.93	59.49	74.00	-14.51	peak	
2	*	11160.00	40.79	5.93	46.72	54.00	-7.28	AVG	

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

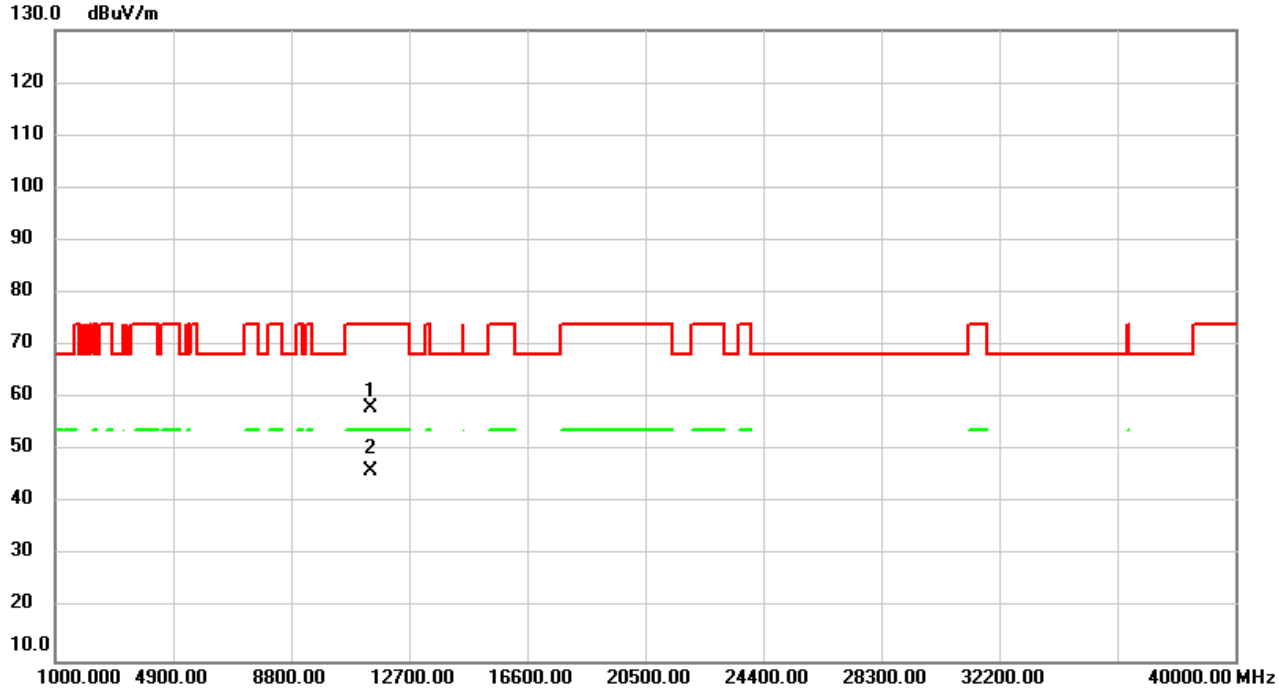
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5580MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11160.00	52.00	5.93	57.93	74.00	-16.07	peak	
2	*	11160.00	40.71	5.93	46.64	54.00	-7.36	AVG	

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

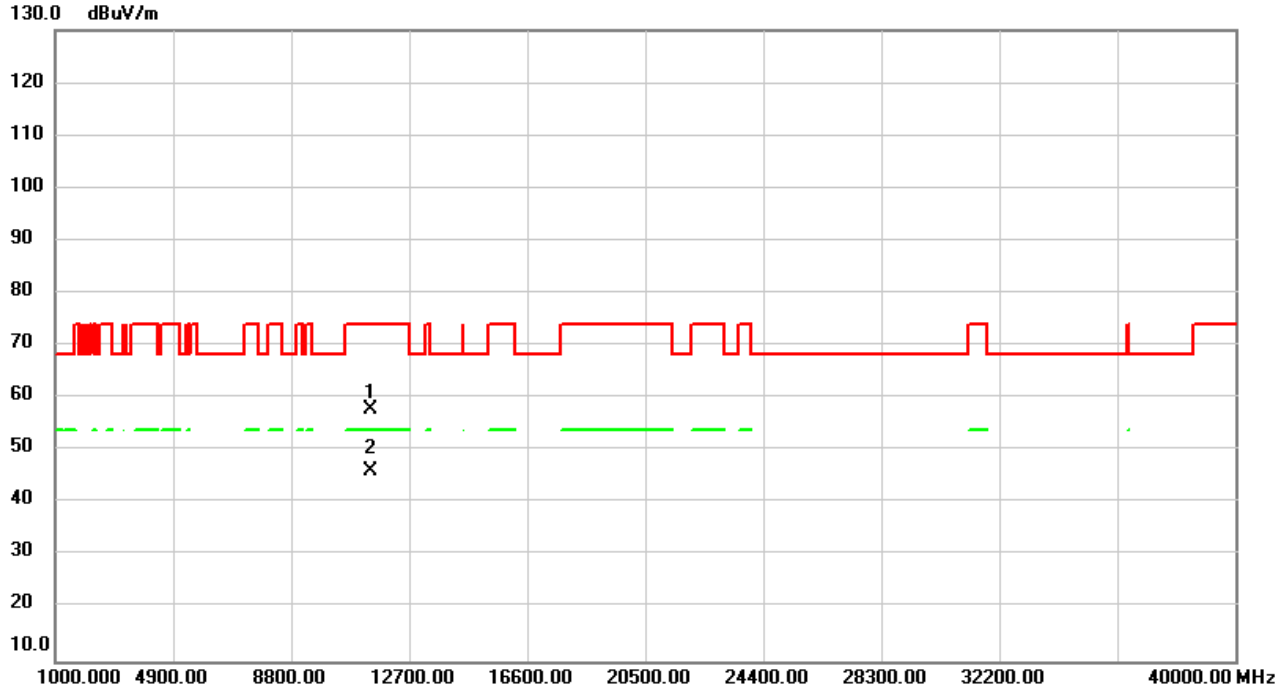
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5700MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11400.00	52.71	5.44	58.15	74.00	-15.85	peak	
2	*	11400.00	40.84	5.44	46.28	54.00	-7.72	AVG	

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

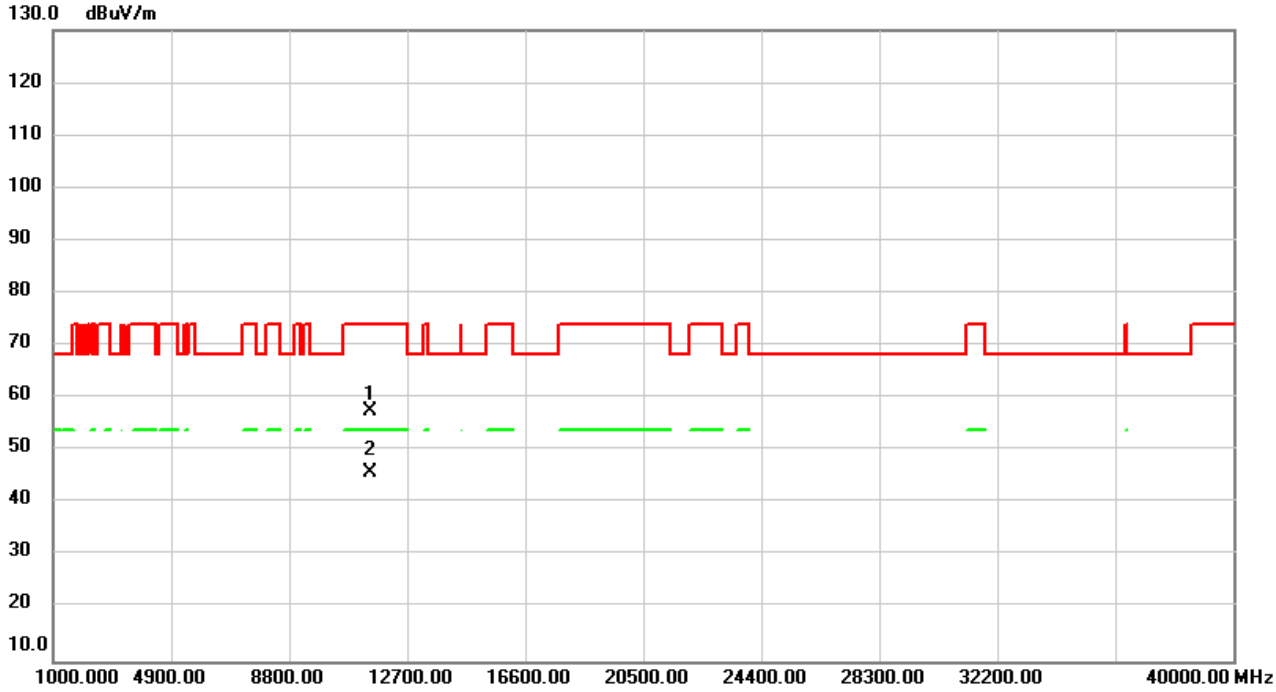
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5700MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11400.00	52.35	5.44	57.79	74.00	-16.21	peak	
2	*	11400.00	40.67	5.44	46.11	54.00	-7.89	AVG	

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

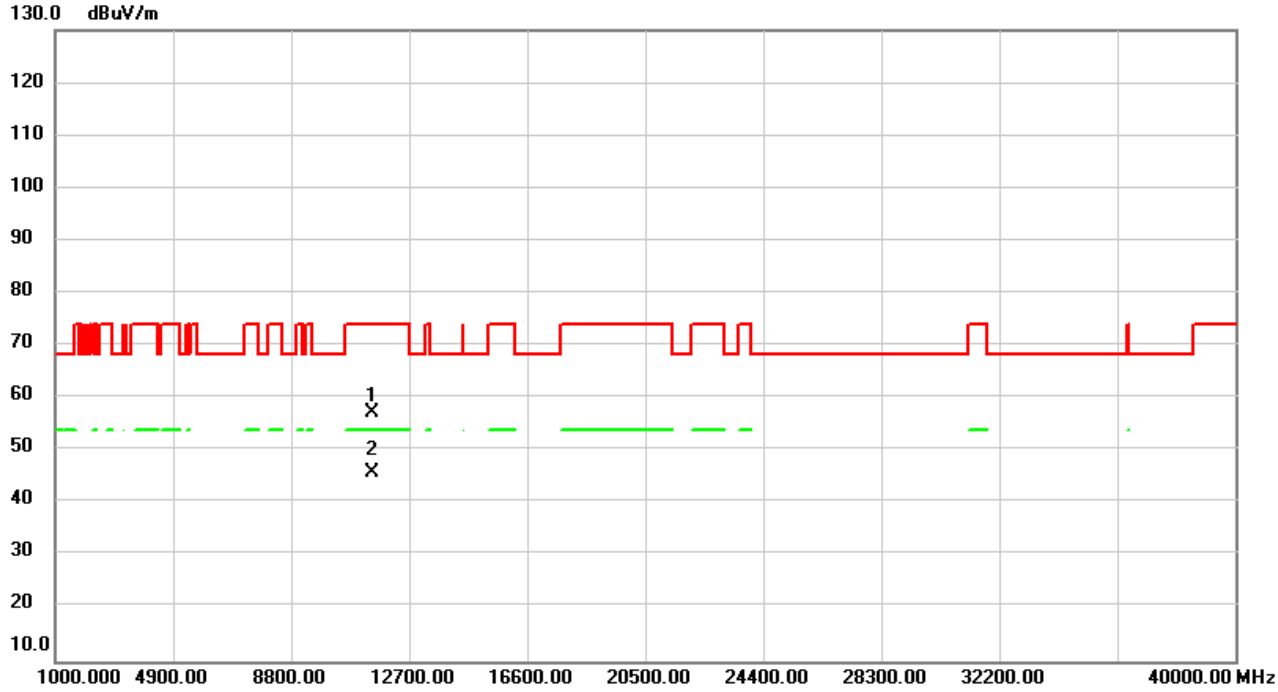
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5745MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	52.17	5.26	57.43	74.00	-16.57	peak	
2	*	11490.00	40.59	5.26	45.85	54.00	-8.15	AVG	

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

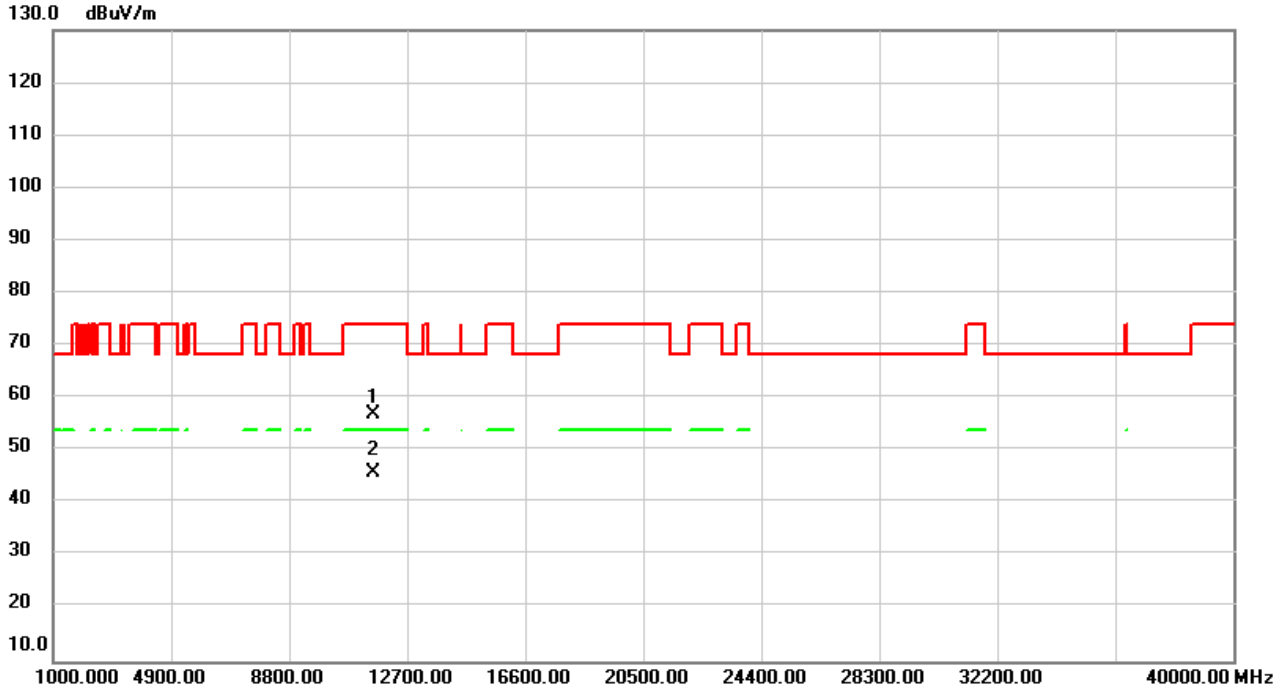
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5745MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	52.07	5.26	57.33	74.00	-16.67	peak	
2	*	11490.00	40.71	5.26	45.97	54.00	-8.03	AVG	

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

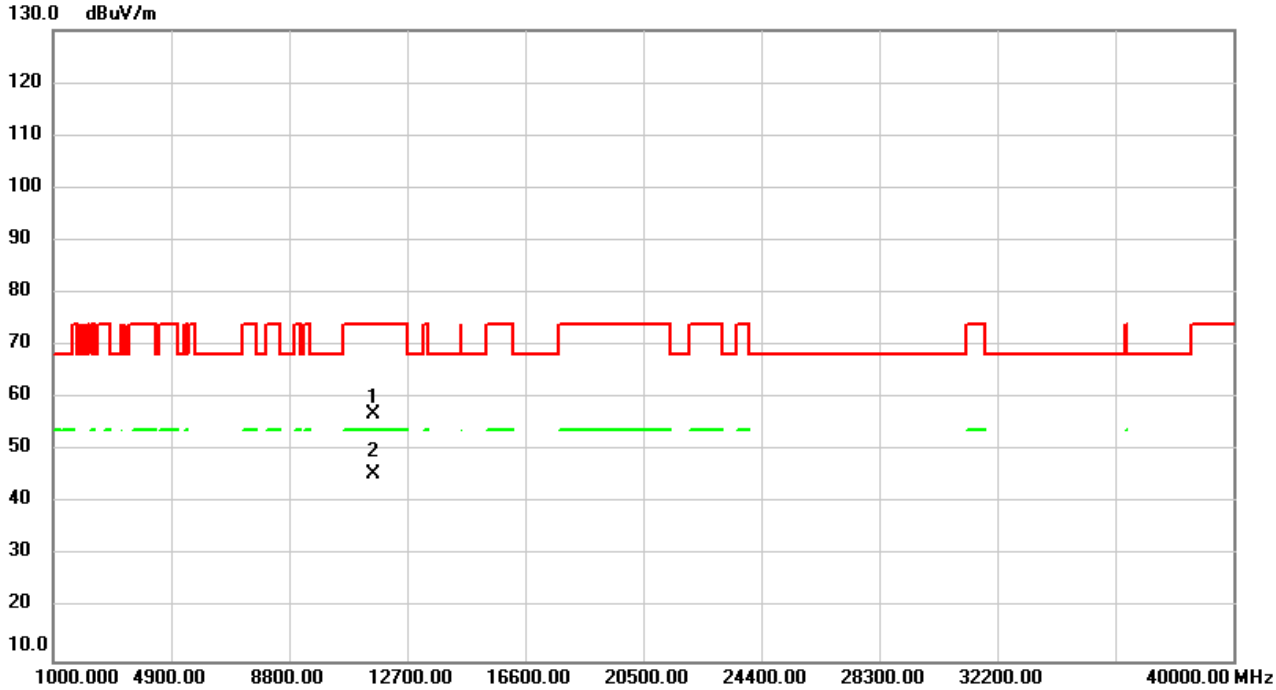
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5785MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	51.95	5.06	57.01	74.00	-16.99	peak	
2	*	11570.00	40.71	5.06	45.77	54.00	-8.23	AVG	

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

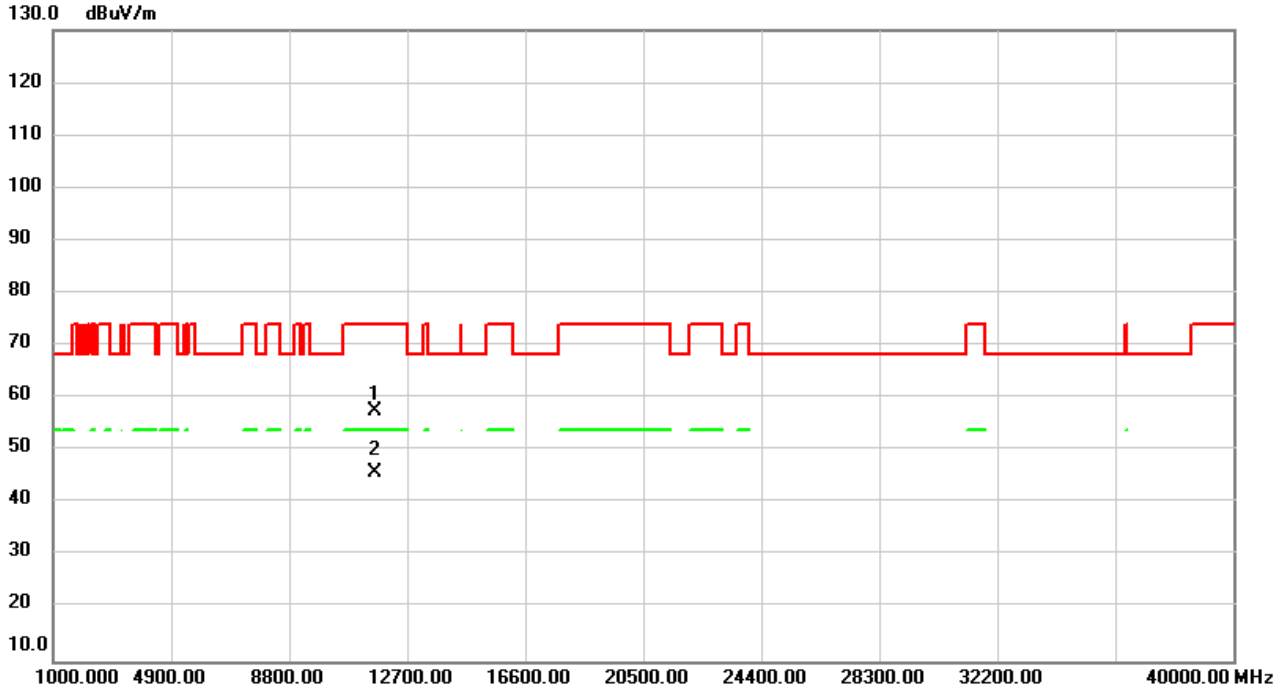
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5785MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	51.96	5.06	57.02	74.00	-16.98	peak	
2	*	11570.00	40.52	5.06	45.58	54.00	-8.42	AVG	

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

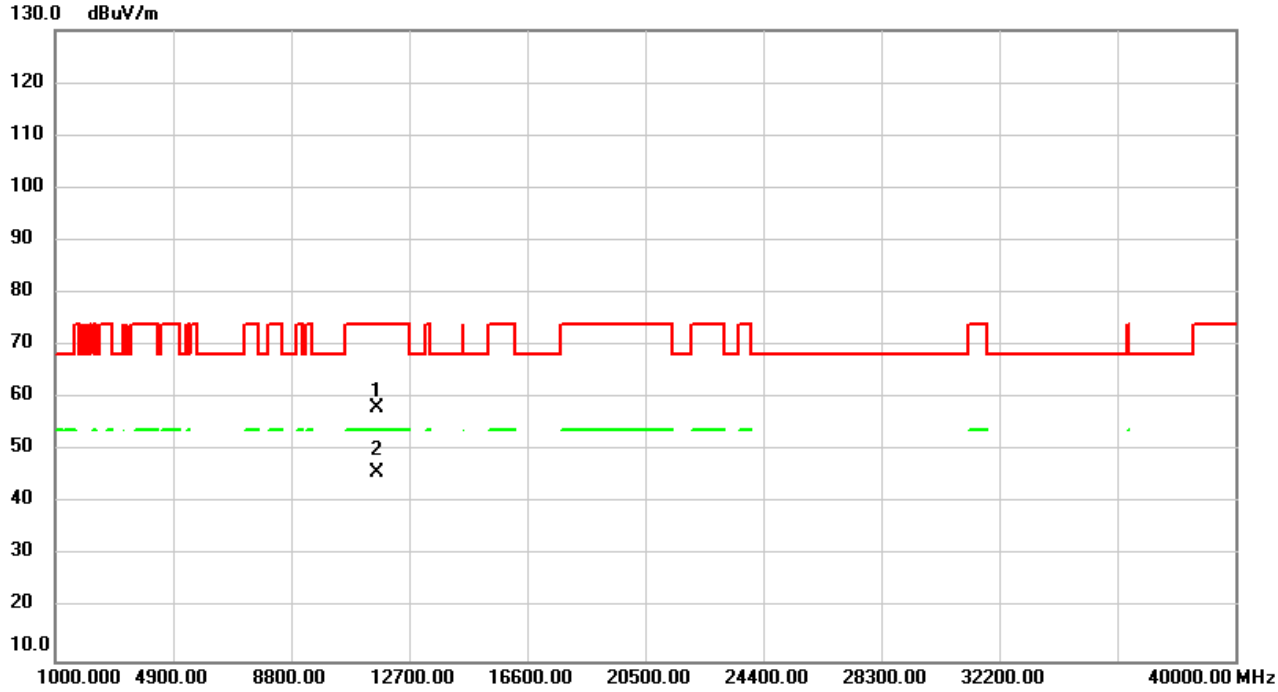
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5825MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	52.64	4.85	57.49	74.00	-16.51	peak	
2	*	11650.00	40.92	4.85	45.77	54.00	-8.23	AVG	

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

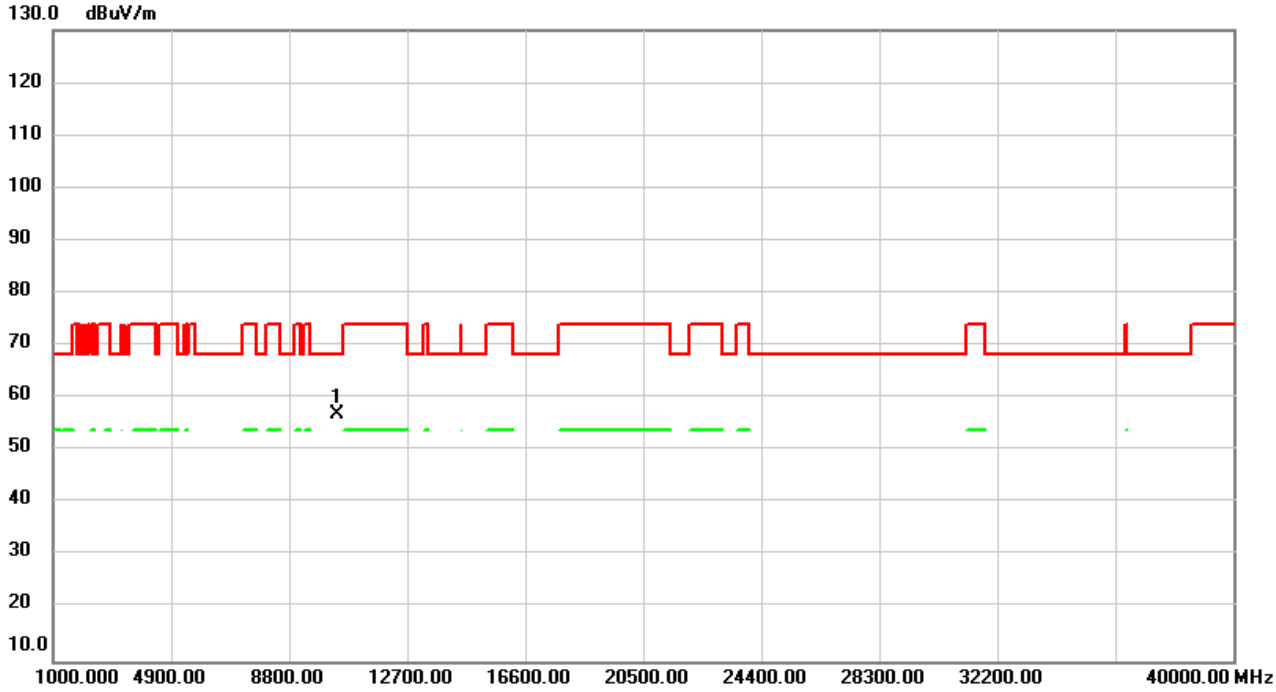
Test Mode	IEEE 802.11n (HT20)	Test Date	2022/3/21
Test Frequency	5825MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	53.33	4.85	58.18	74.00	-15.82	peak	
2	*	11650.00	40.96	4.85	45.81	54.00	-8.19	AVG	

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

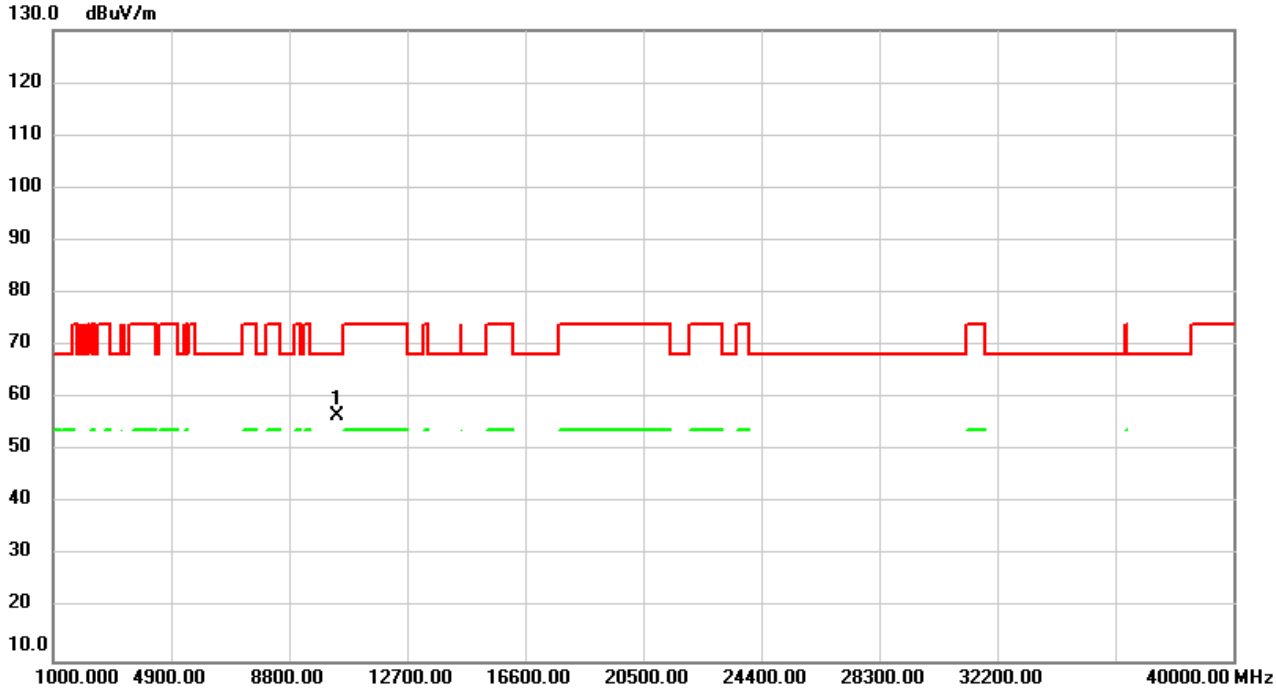
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/21
Test Frequency	5190MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10380.00	52.39	4.49	56.88	68.20	-11.32	peak	

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

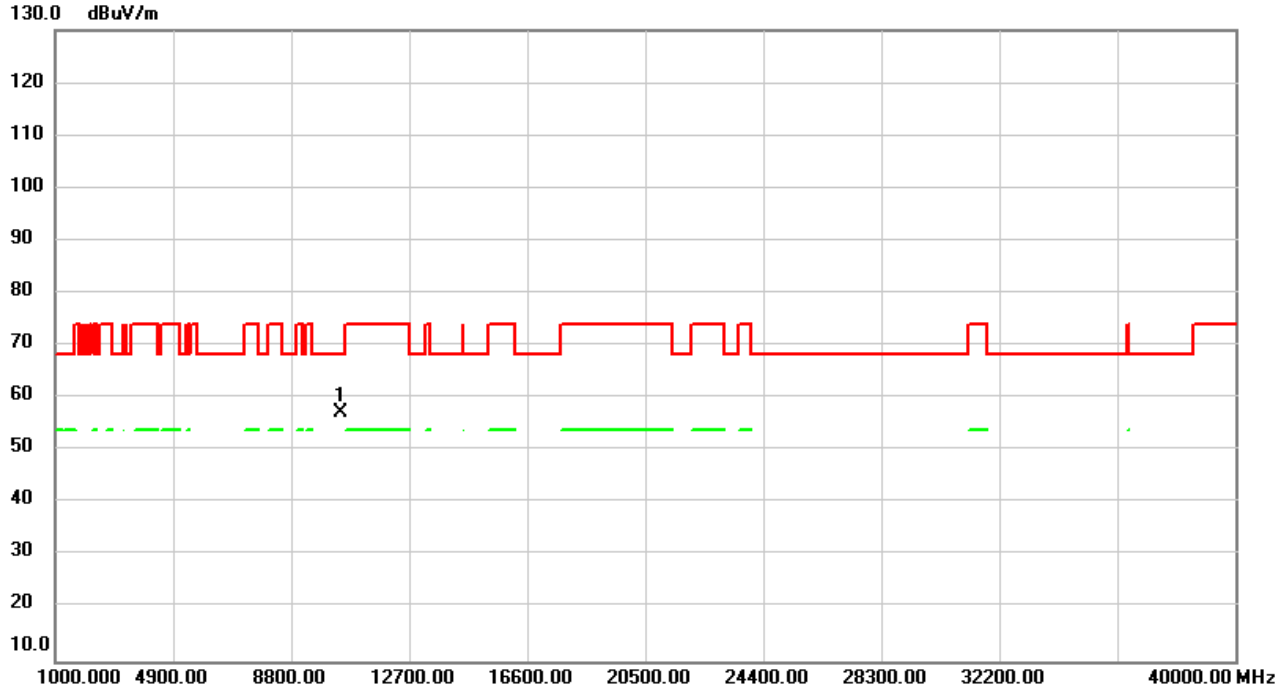
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/21
Test Frequency	5190MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10380.00	52.23	4.49	56.72	68.20	-11.48	peak	

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

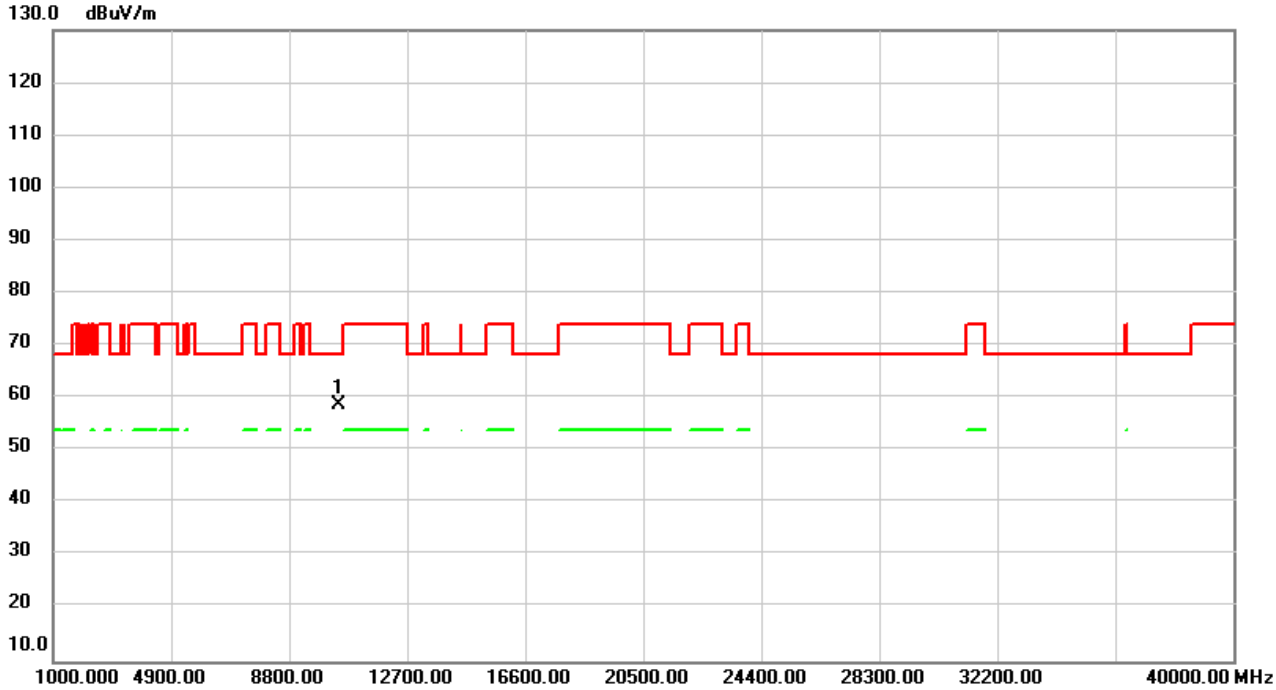
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/21
Test Frequency	5230MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.00	52.64	4.70	57.34	68.20	-10.86	peak	

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

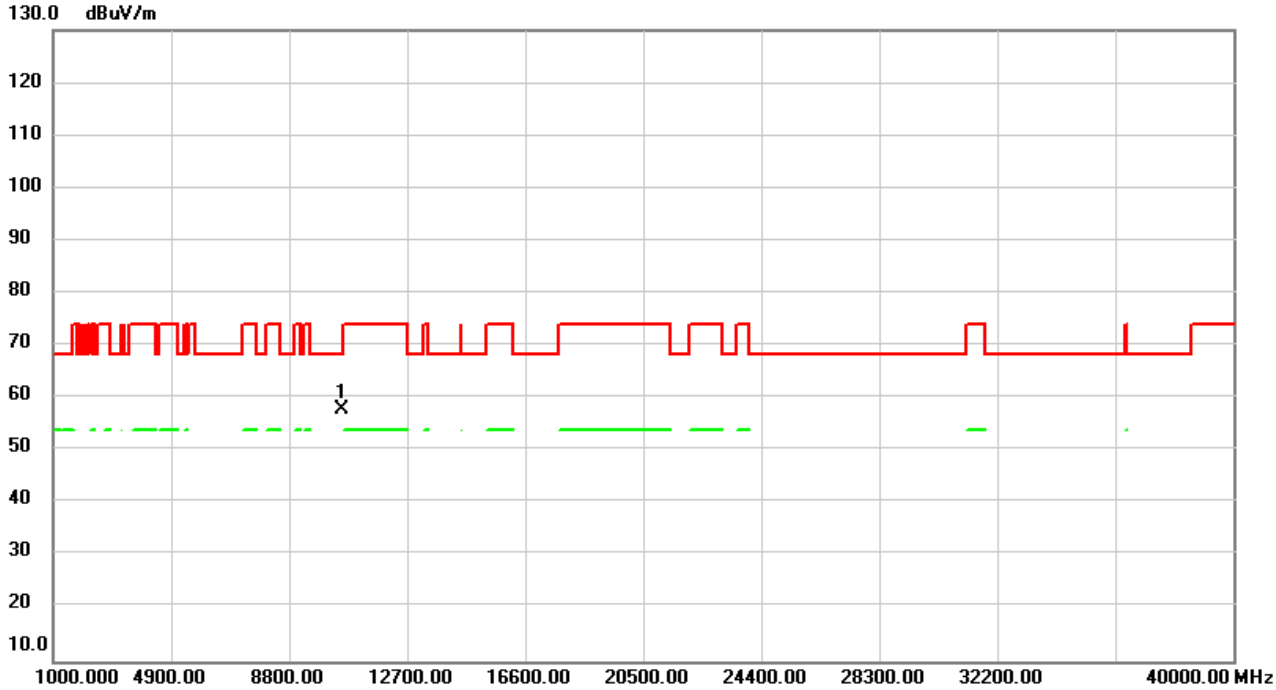
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/21
Test Frequency	5230MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.00	53.91	4.70	58.61	68.20	-9.59	peak	

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

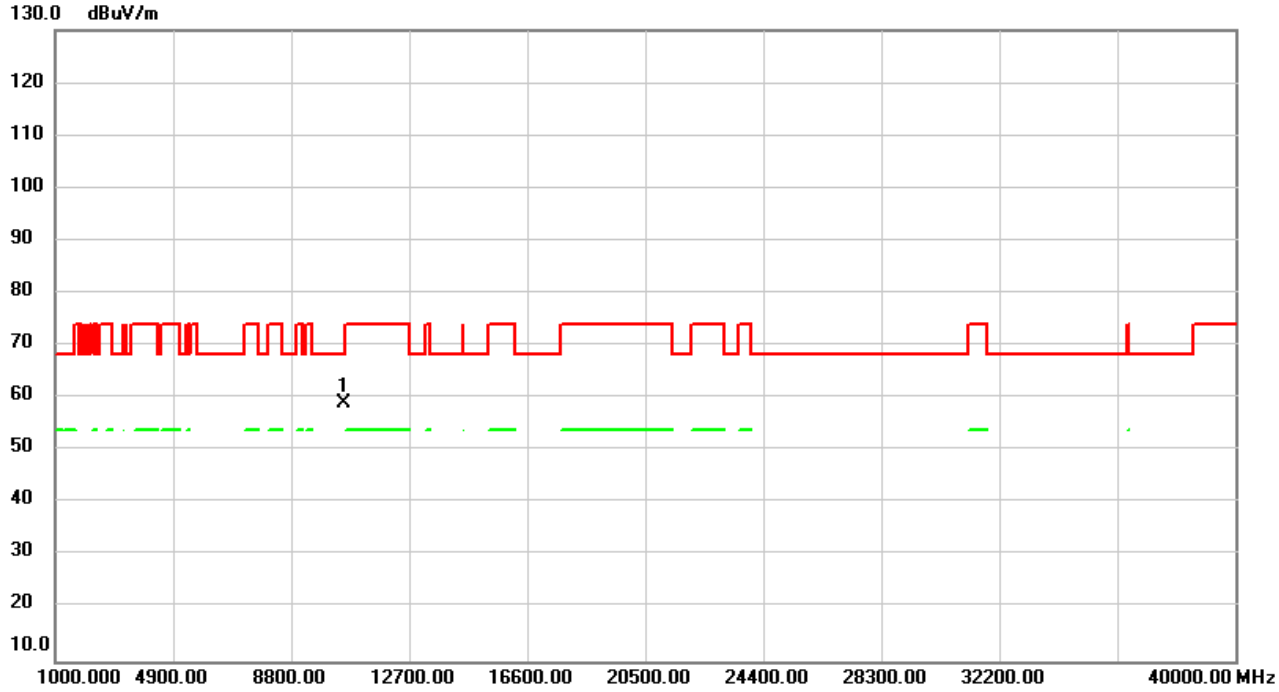
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/21
Test Frequency	5270MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10540.00	52.94	4.92	57.86	68.20	-10.34	peak	

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

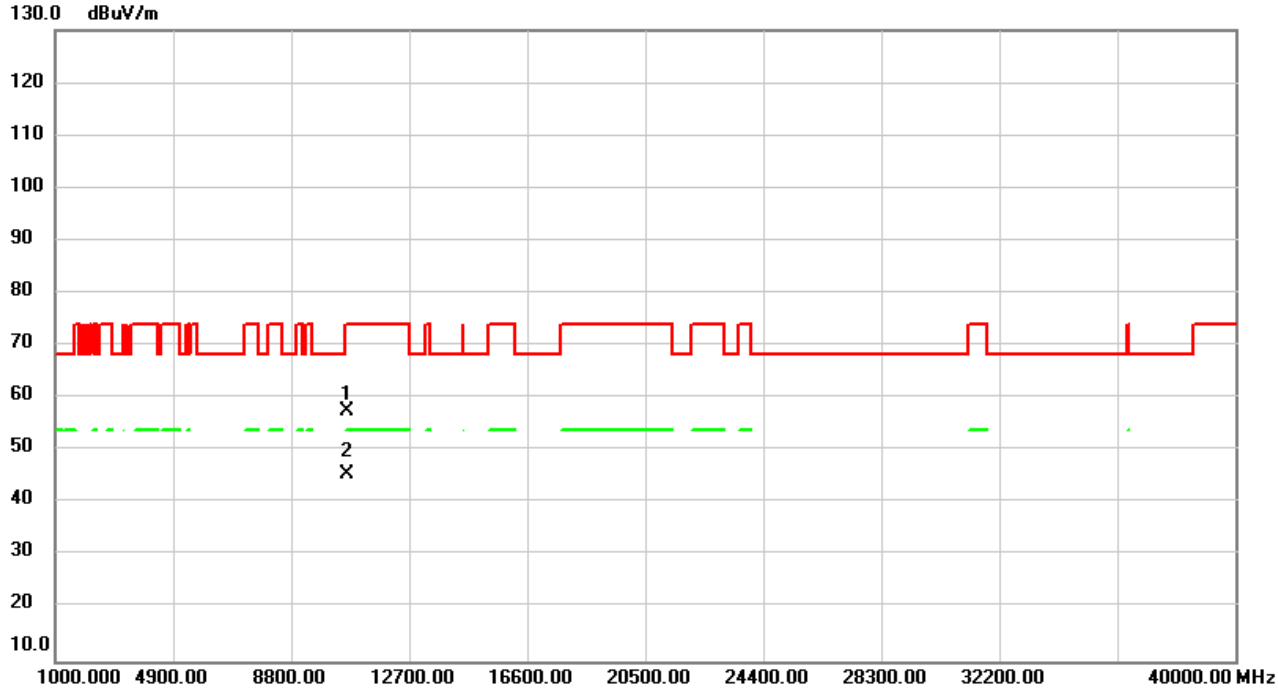
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/21
Test Frequency	5270MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10540.00	54.05	4.92	58.97	68.20	-9.23	peak	

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

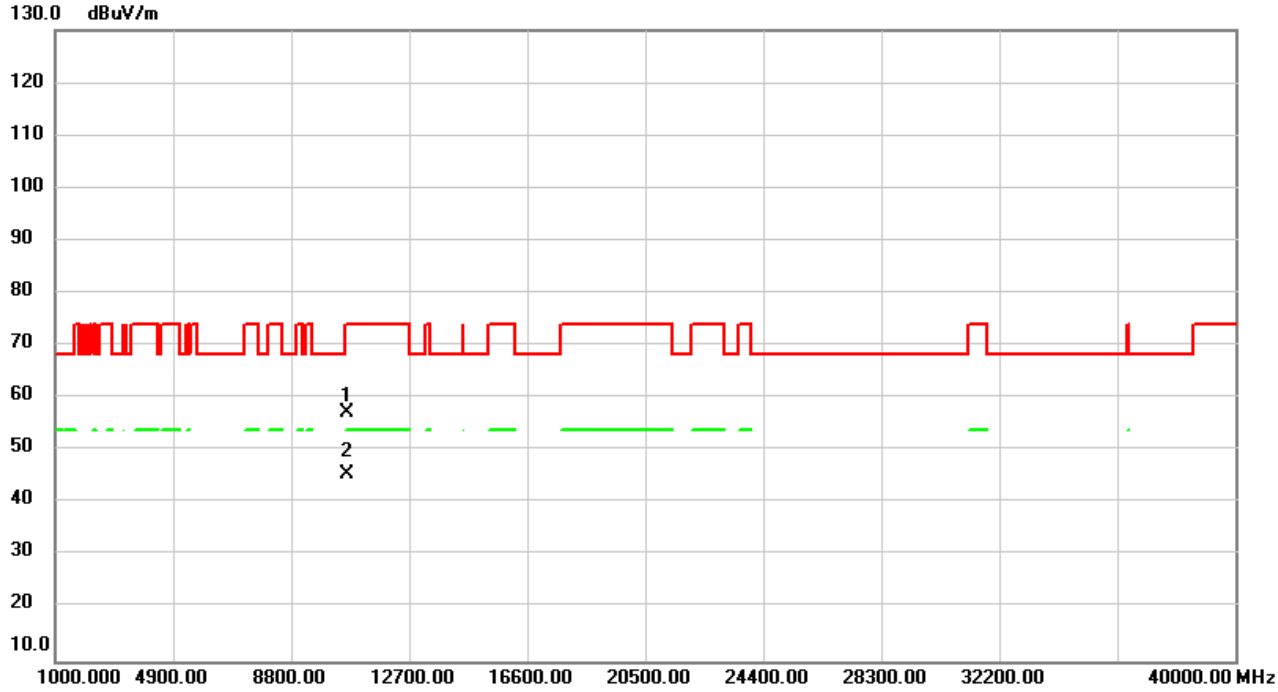
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/21
Test Frequency	5310MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10620.00	52.26	5.15	57.41	74.00	-16.59	peak	
2	*	10620.00	40.40	5.15	45.55	54.00	-8.45	AVG	

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

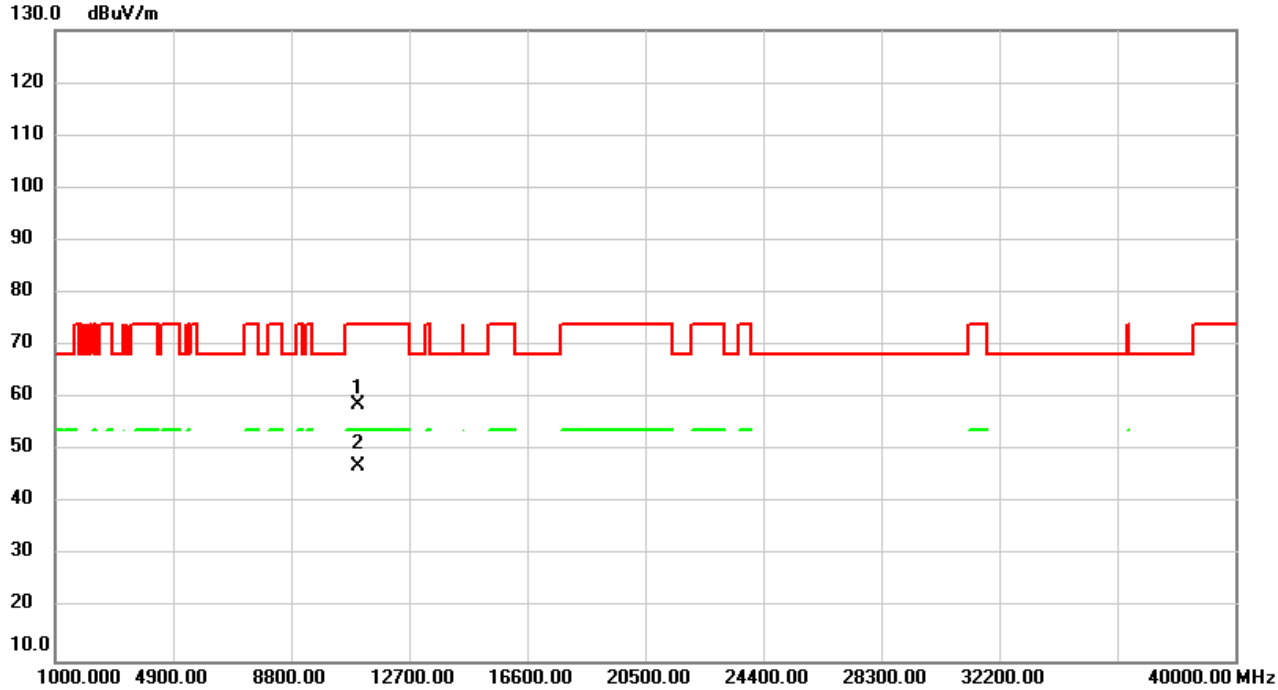
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/21
Test Frequency	5310MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10620.00	52.09	5.15	57.24	74.00	-16.76	peak	
2	*	10620.00	40.37	5.15	45.52	54.00	-8.48	AVG	

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

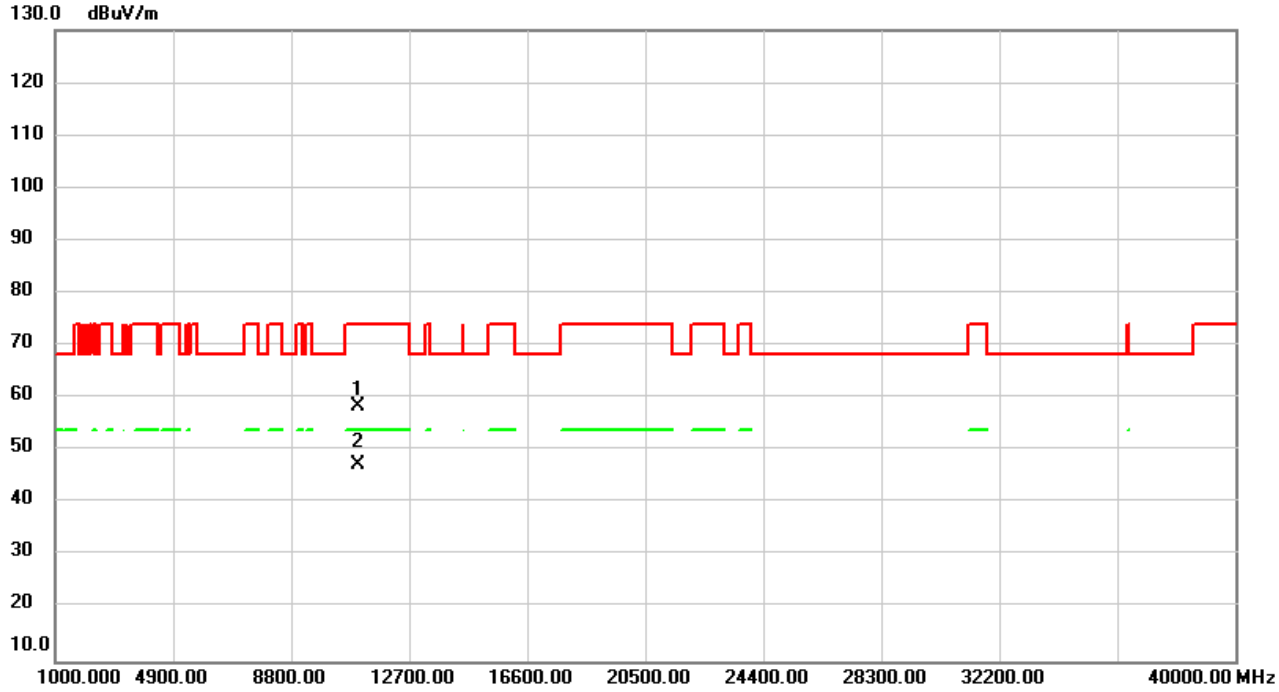
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/21
Test Frequency	5510MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11020.00	52.59	6.23	58.82	74.00	-15.18	peak	
2	*	11020.00	40.88	6.23	47.11	54.00	-6.89	AVG	

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

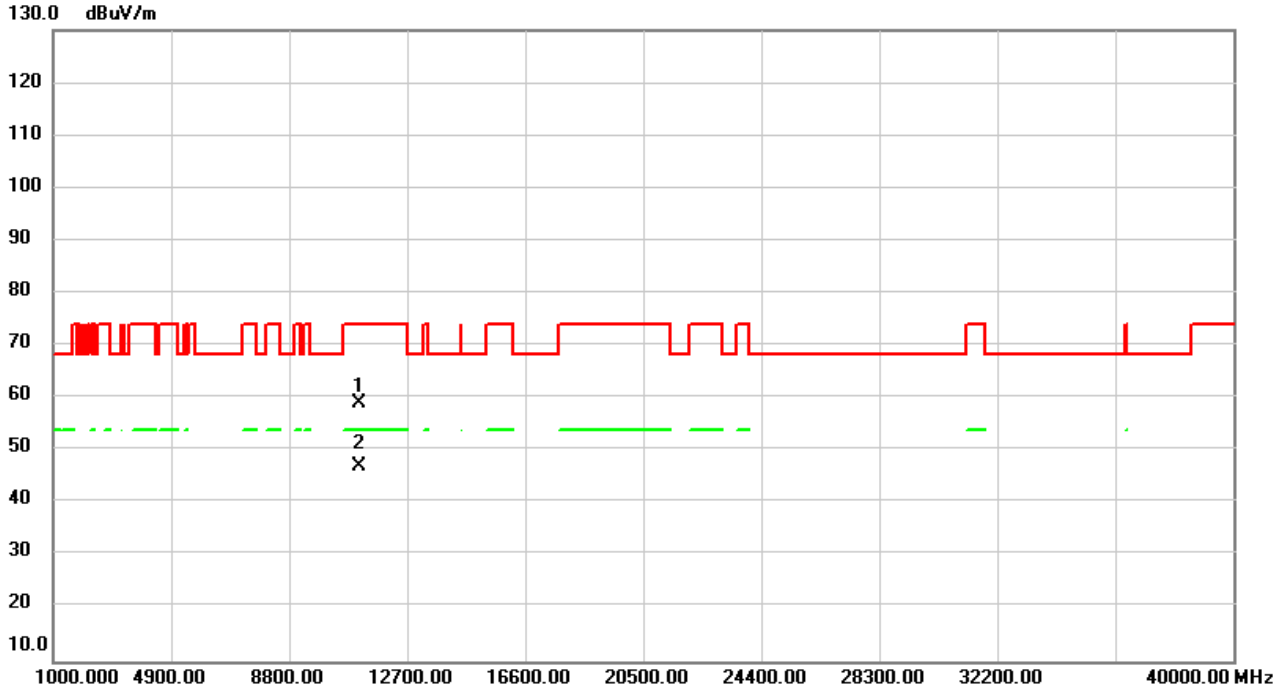
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/21
Test Frequency	5510MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11020.00	52.35	6.23	58.58	74.00	-15.42	peak	
2	*	11020.00	40.97	6.23	47.20	54.00	-6.80	AVG	

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

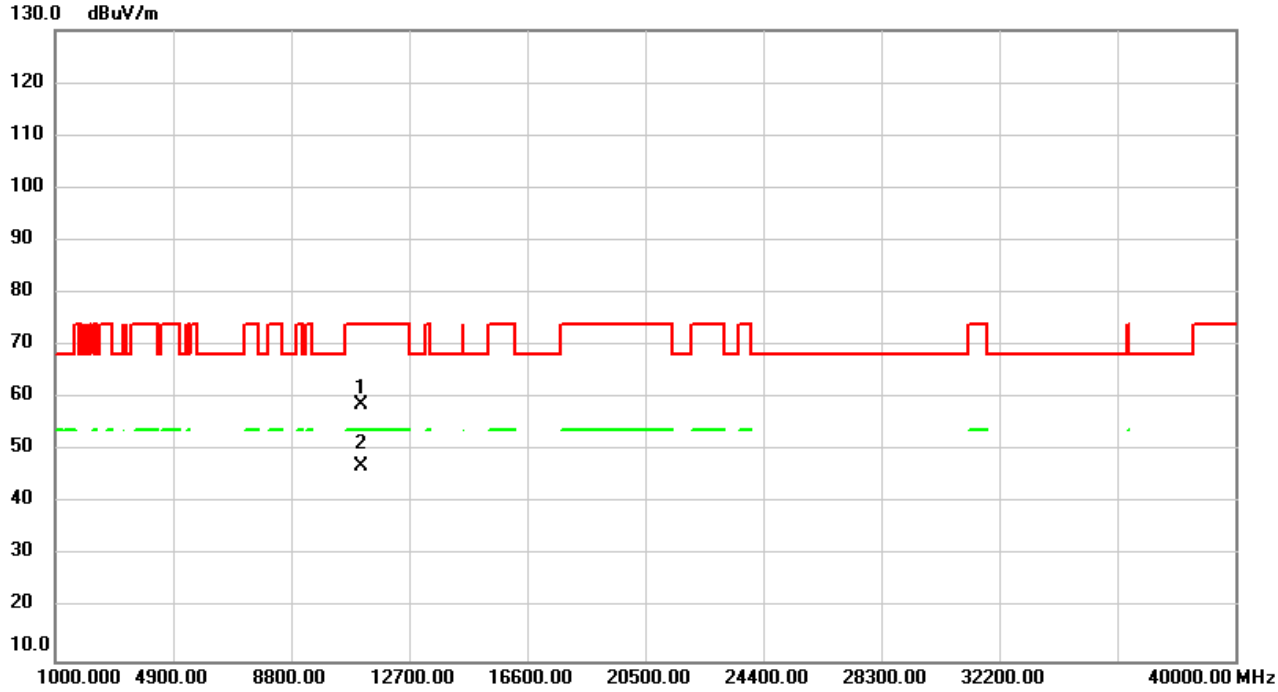
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/21
Test Frequency	5550MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11100.00	53.07	6.07	59.14	74.00	-14.86	peak	
2	*	11100.00	40.99	6.07	47.06	54.00	-6.94	AVG	

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

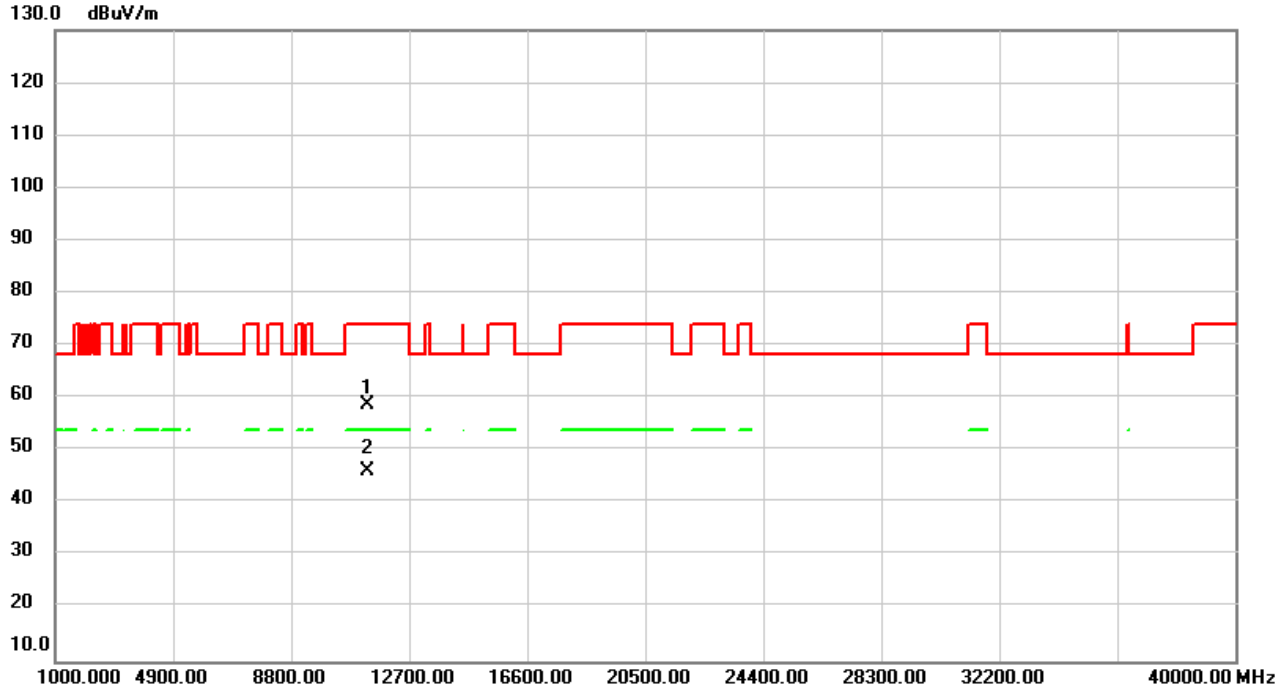
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/21
Test Frequency	5550MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11100.00	52.74	6.07	58.81	74.00	-15.19	peak	
2	*	11100.00	40.95	6.07	47.02	54.00	-6.98	AVG	

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

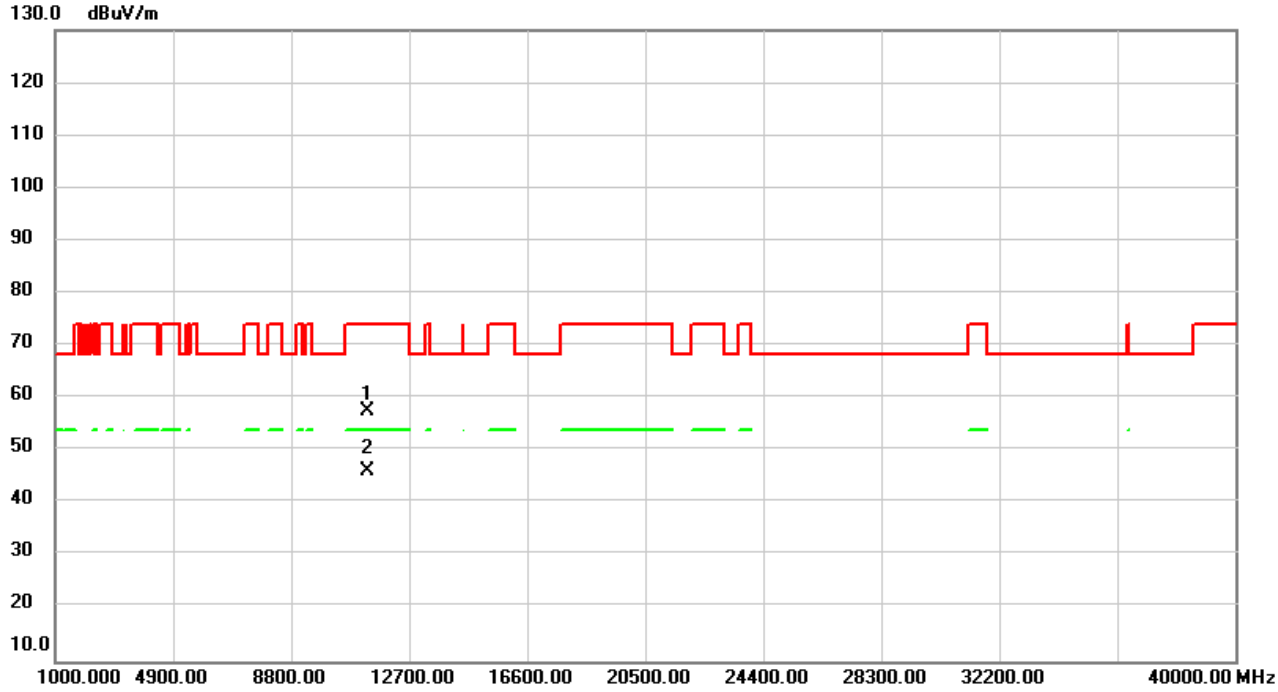
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/21
Test Frequency	5670MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11340.00	53.11	5.58	58.69	74.00	-15.31	peak	
2	*	11340.00	40.62	5.58	46.20	54.00	-7.80	AVG	

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

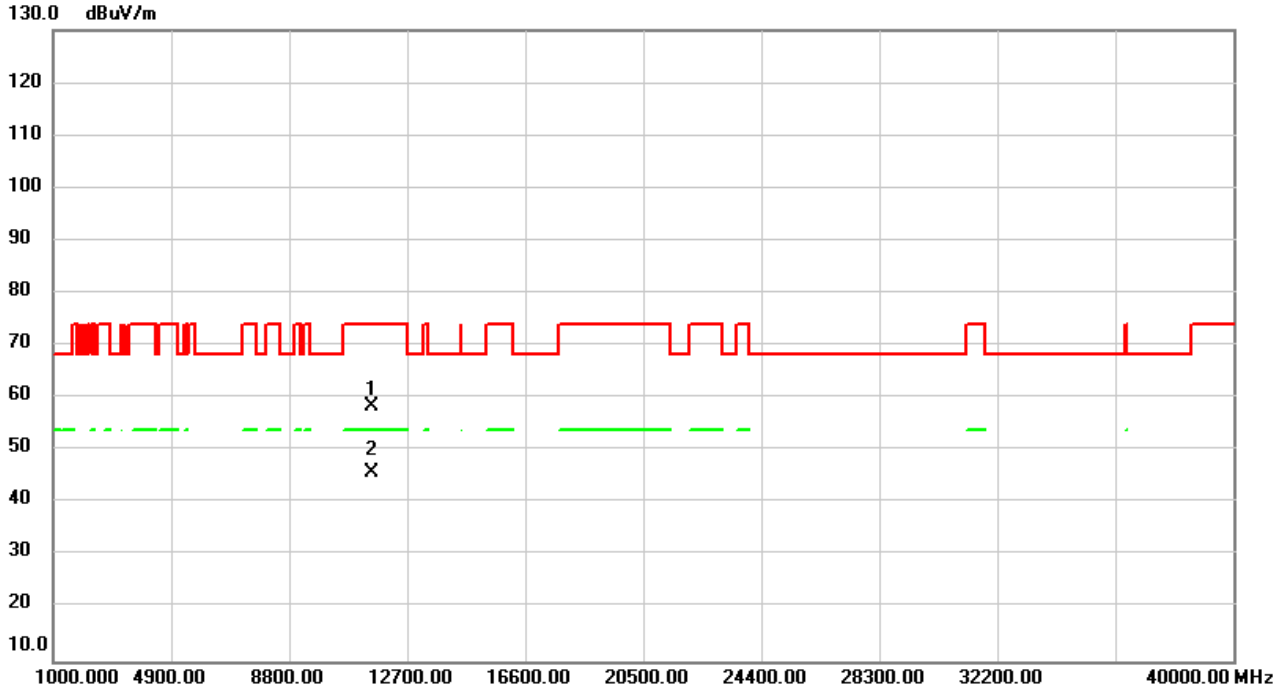
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/21
Test Frequency	5670MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11340.00	52.03	5.58	57.61	74.00	-16.39	peak	
2	*	11340.00	40.53	5.58	46.11	54.00	-7.89	AVG	

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

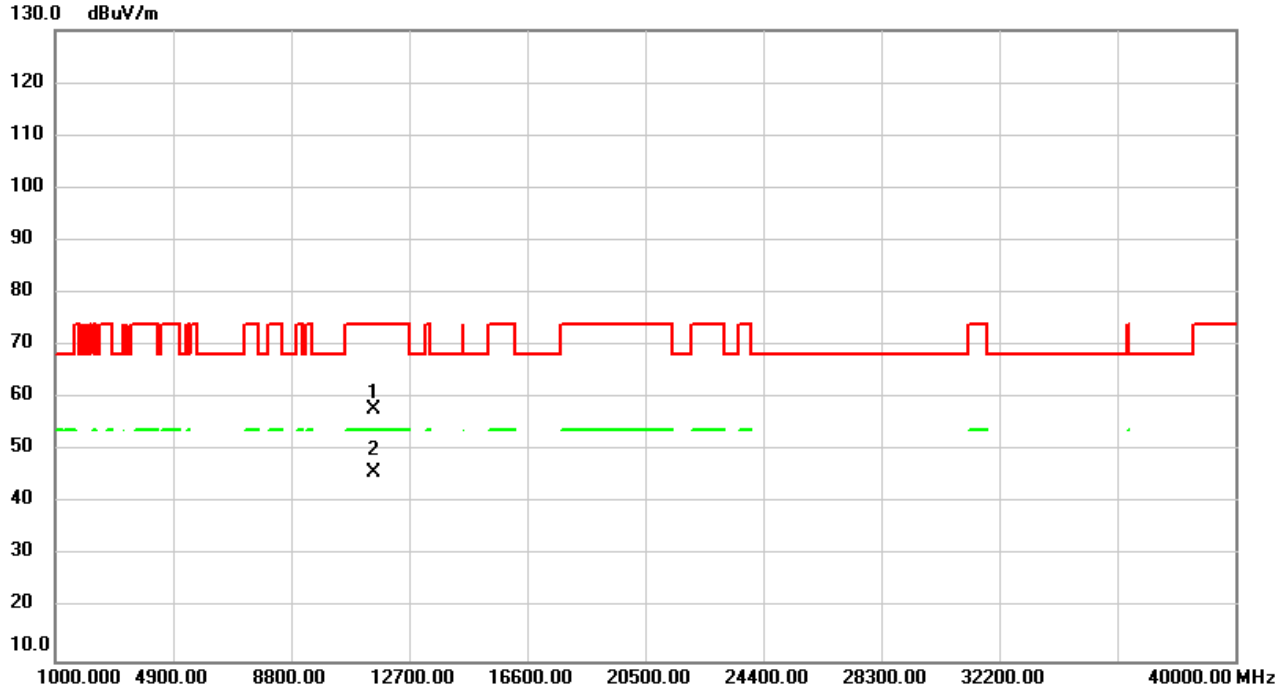
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/21
Test Frequency	5755MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11510.00	53.12	5.22	58.34	74.00	-15.66	peak	
2	*	11510.00	40.65	5.22	45.87	54.00	-8.13	AVG	

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

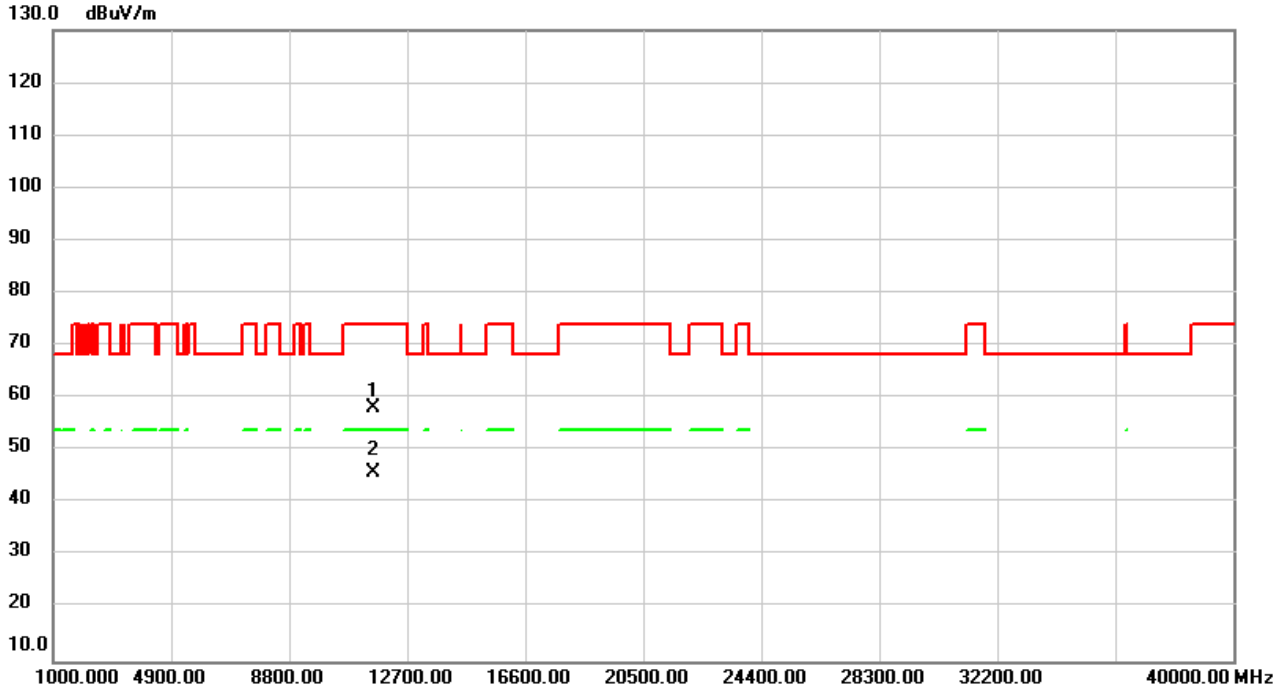
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/21
Test Frequency	5755MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11510.00	52.66	5.22	57.88	74.00	-16.12	peak	
2	*	11510.00	40.50	5.22	45.72	54.00	-8.28	AVG	

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

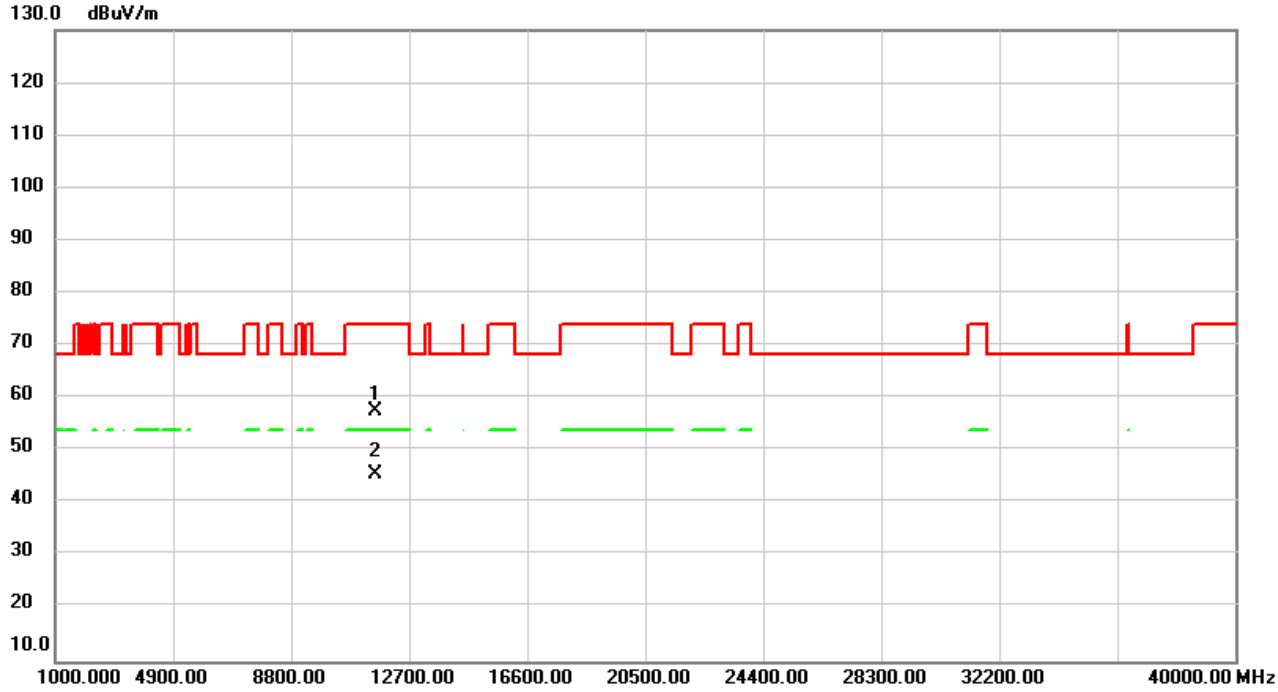
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/21
Test Frequency	5795MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11590.00	53.10	5.00	58.10	74.00	-15.90	peak	
2	*	11590.00	40.81	5.00	45.81	54.00	-8.19	AVG	

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

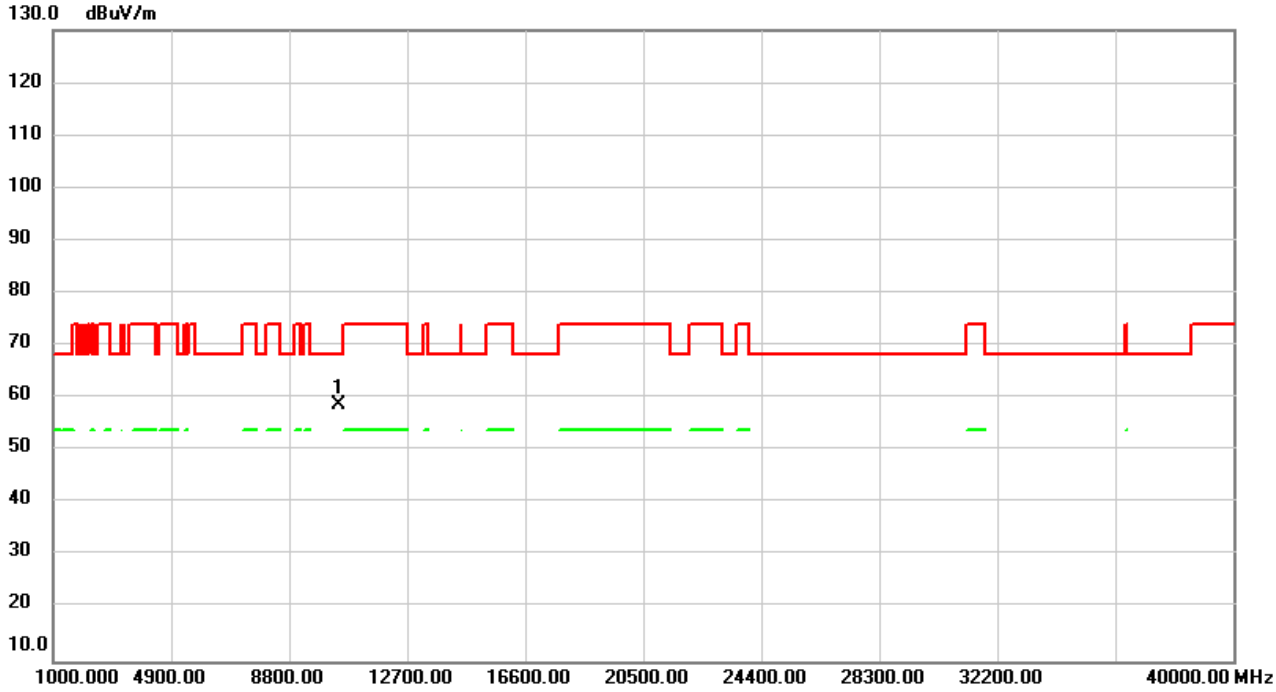
Test Mode	IEEE 802.11n (HT40)	Test Date	2022/3/21
Test Frequency	5795MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11590.00	52.60	5.00	57.60	74.00	-16.40	peak	
2	*	11590.00	40.64	5.00	45.64	54.00	-8.36	AVG	

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

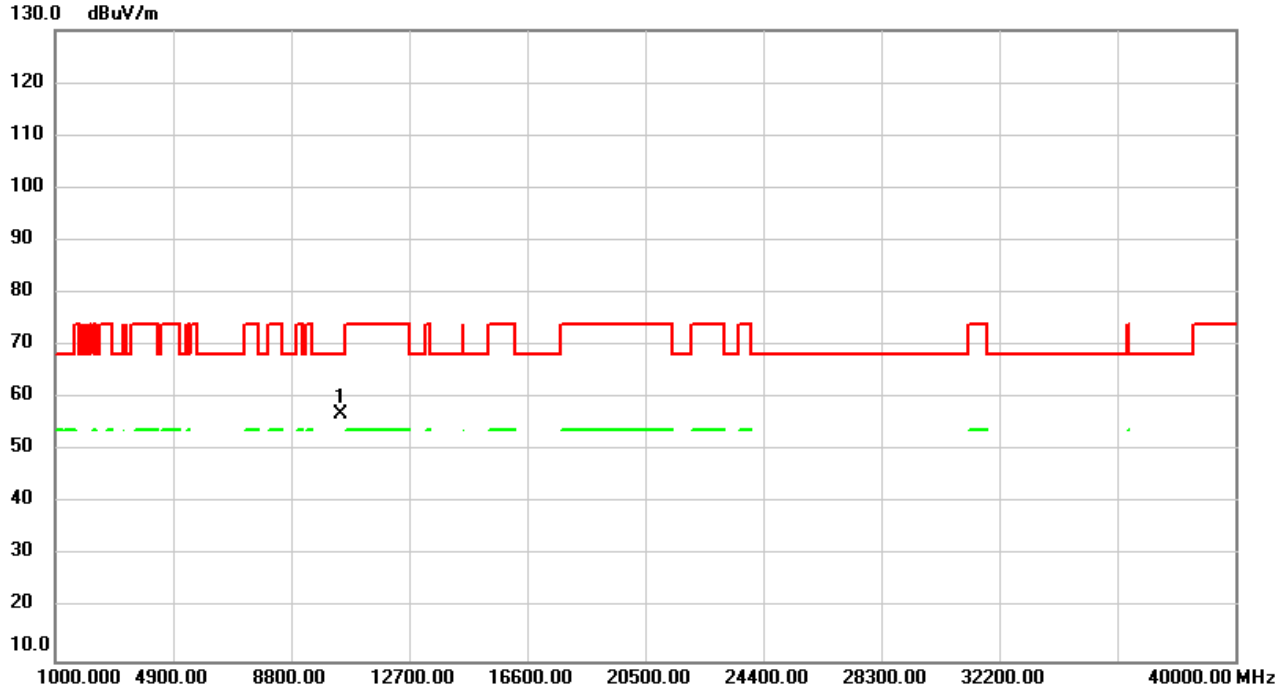
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2022/3/21
Test Frequency	5210MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10420.00	54.24	4.60	58.84	68.20	-9.36	peak	

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

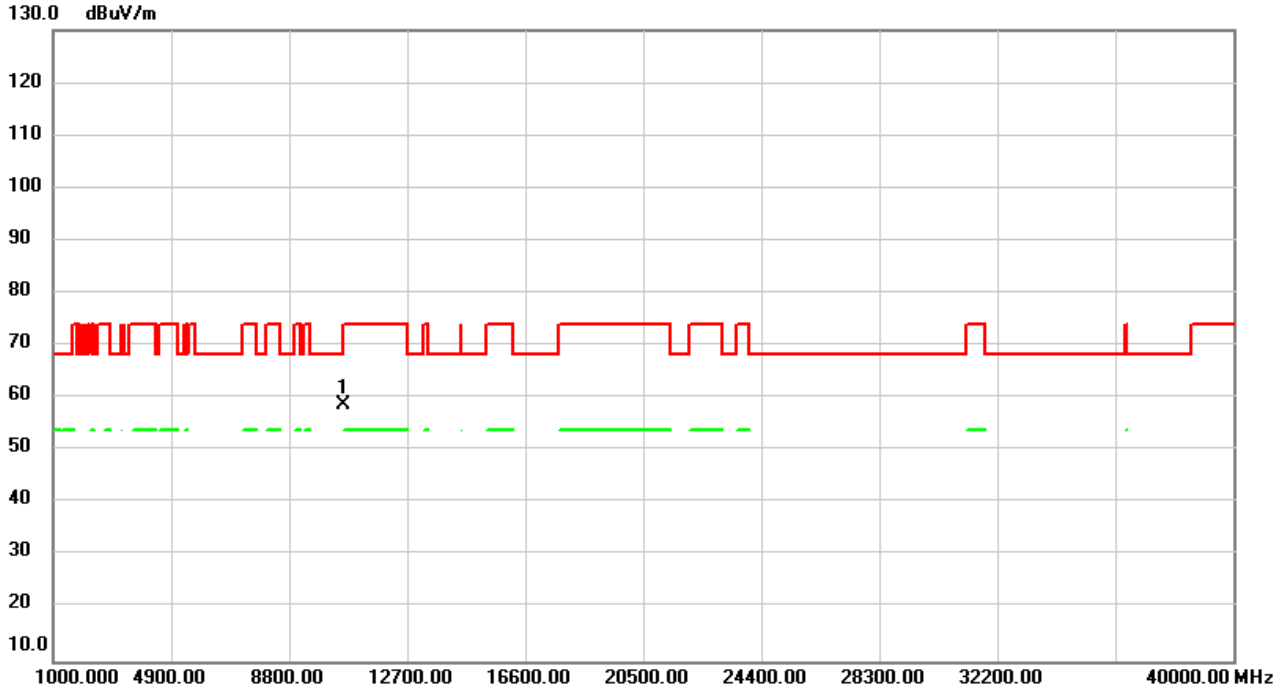
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2022/3/21
Test Frequency	5210MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10420.00	52.33	4.60	56.93	68.20	-11.27	peak	

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

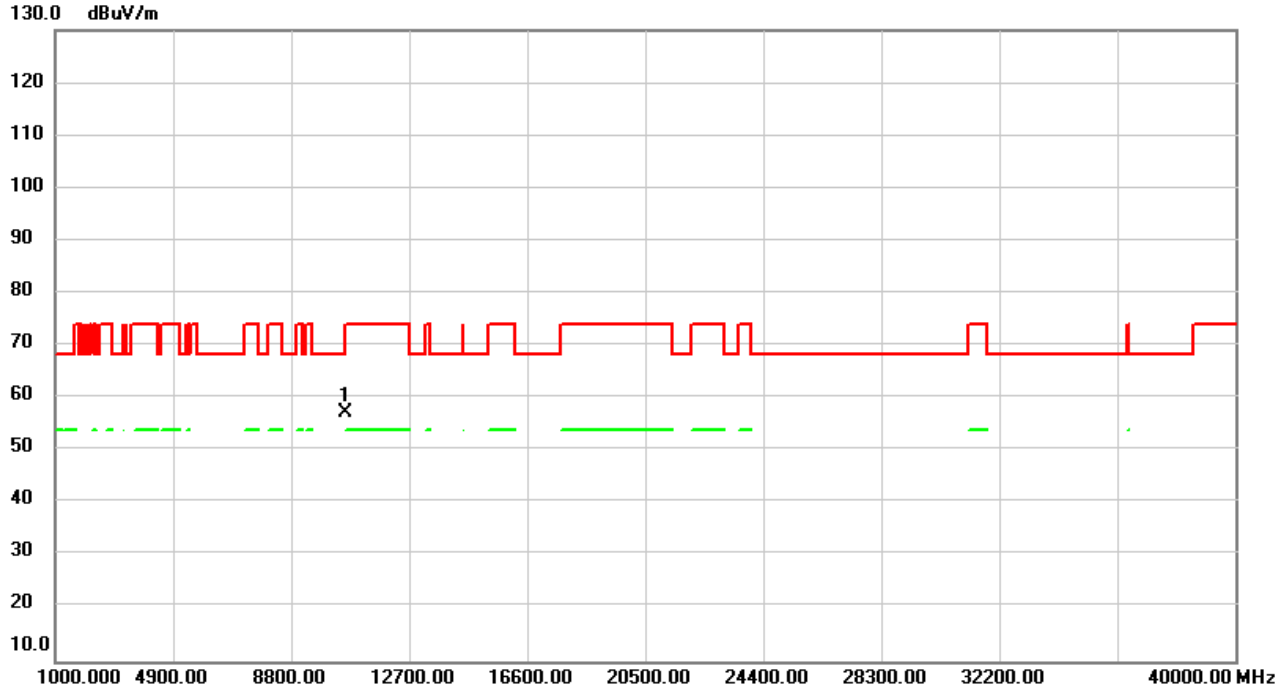
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2022/3/21
Test Frequency	5290MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10580.00	53.66	5.05	58.71	68.20	-9.49	peak	

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

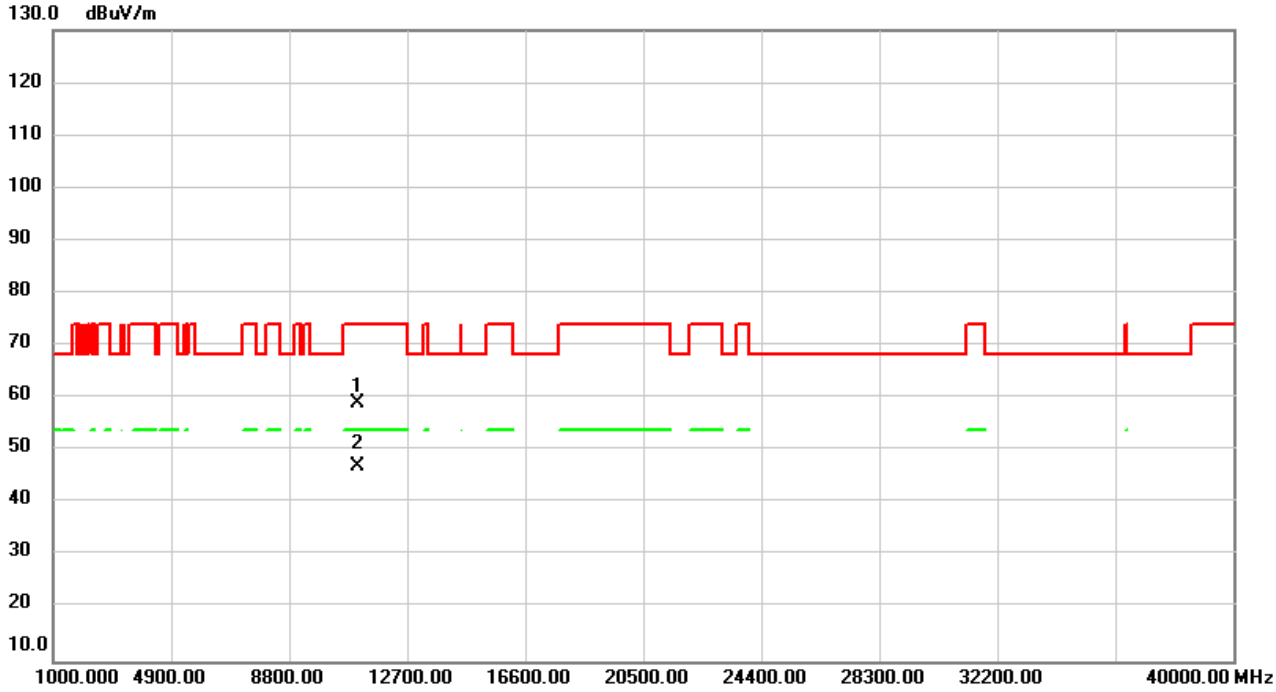
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2022/3/21
Test Frequency	5290MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10580.00	52.25	5.05	57.30	68.20	-10.90	peak	

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

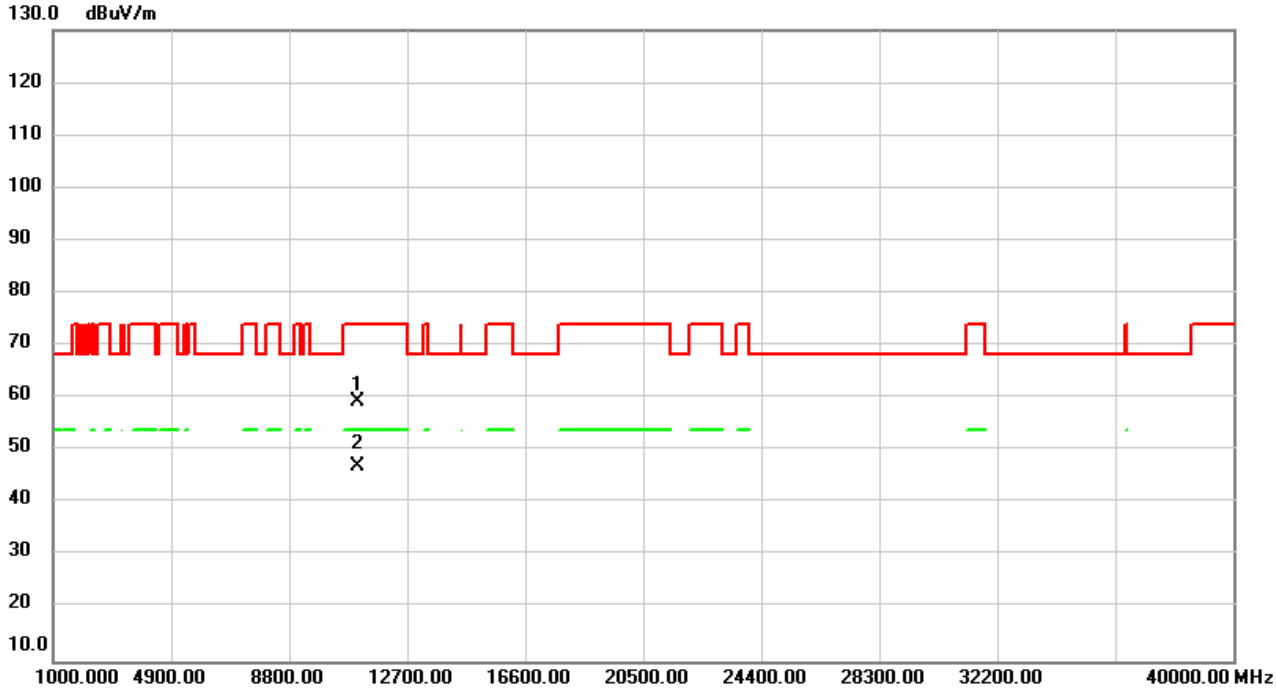
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2022/3/21
Test Frequency	5530MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11060.00	52.79	6.15	58.94	74.00	-15.06	peak	
2	*	11060.00	40.92	6.15	47.07	54.00	-6.93	AVG	

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

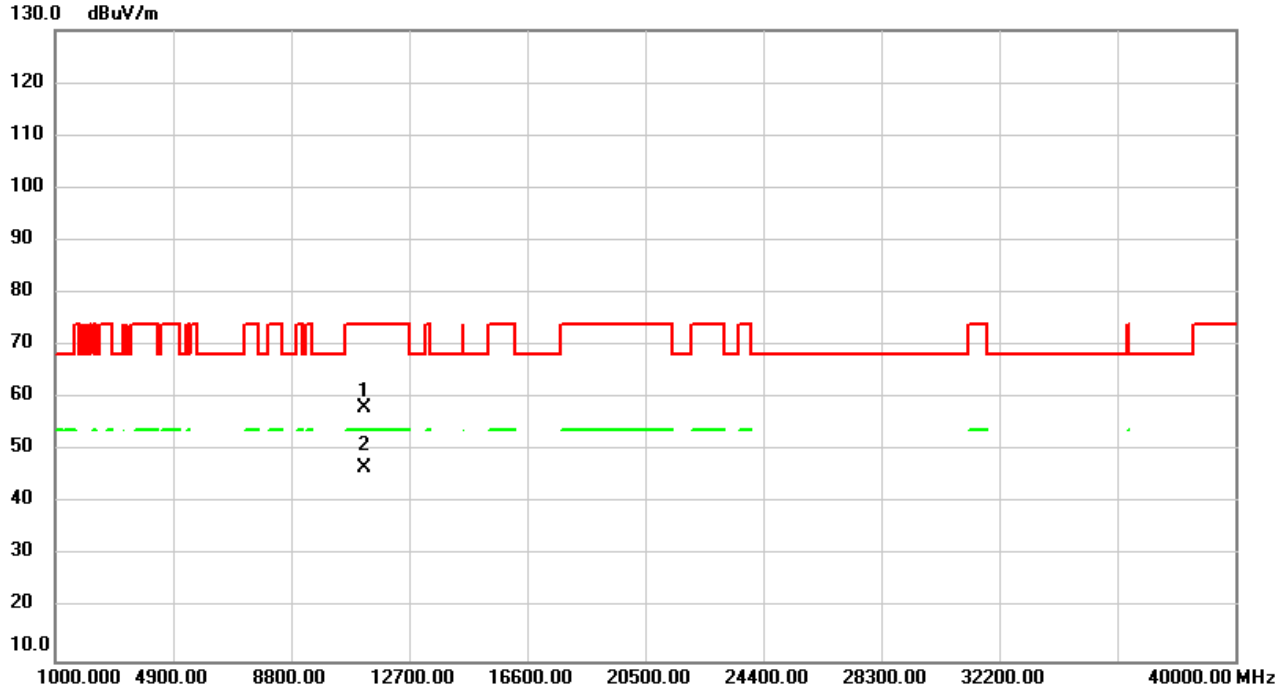
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2022/3/21
Test Frequency	5530MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11060.00	53.18	6.15	59.33	74.00	-14.67	peak	
2	*	11060.00	40.98	6.15	47.13	54.00	-6.87	AVG	

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

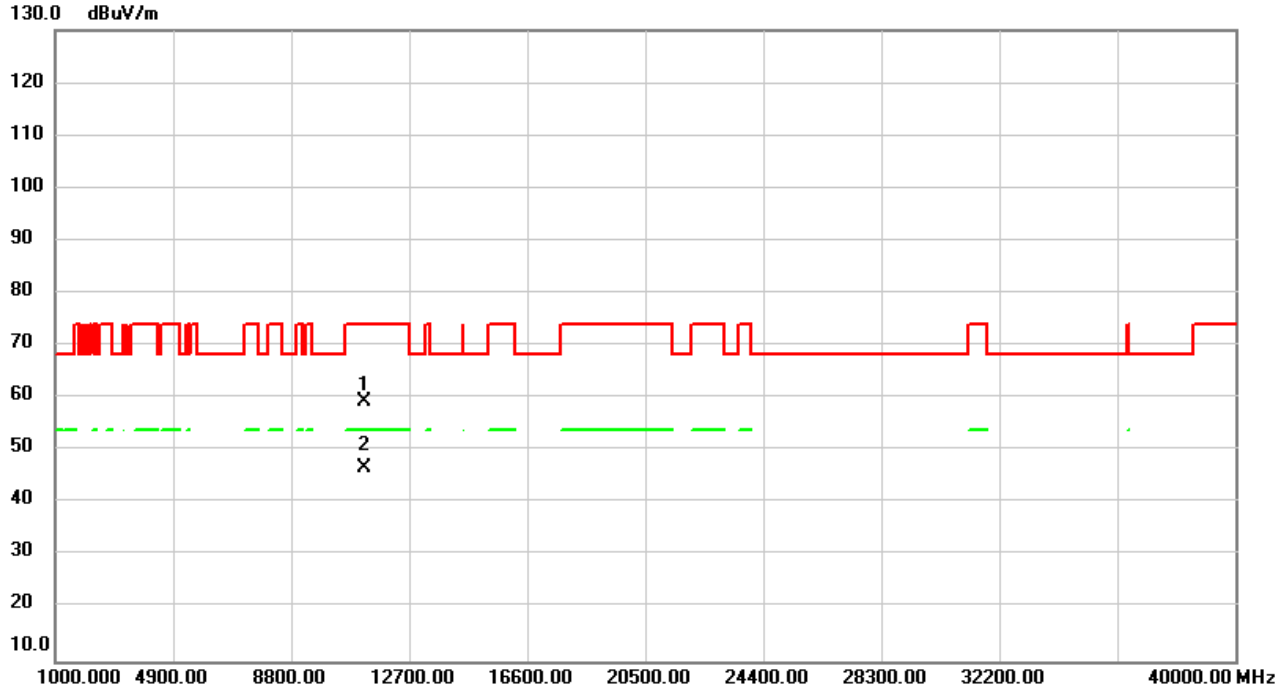
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2022/3/21
Test Frequency	5610MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11220.00	52.42	5.81	58.23	74.00	-15.77	peak	
2	*	11220.00	40.82	5.81	46.63	54.00	-7.37	AVG	

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

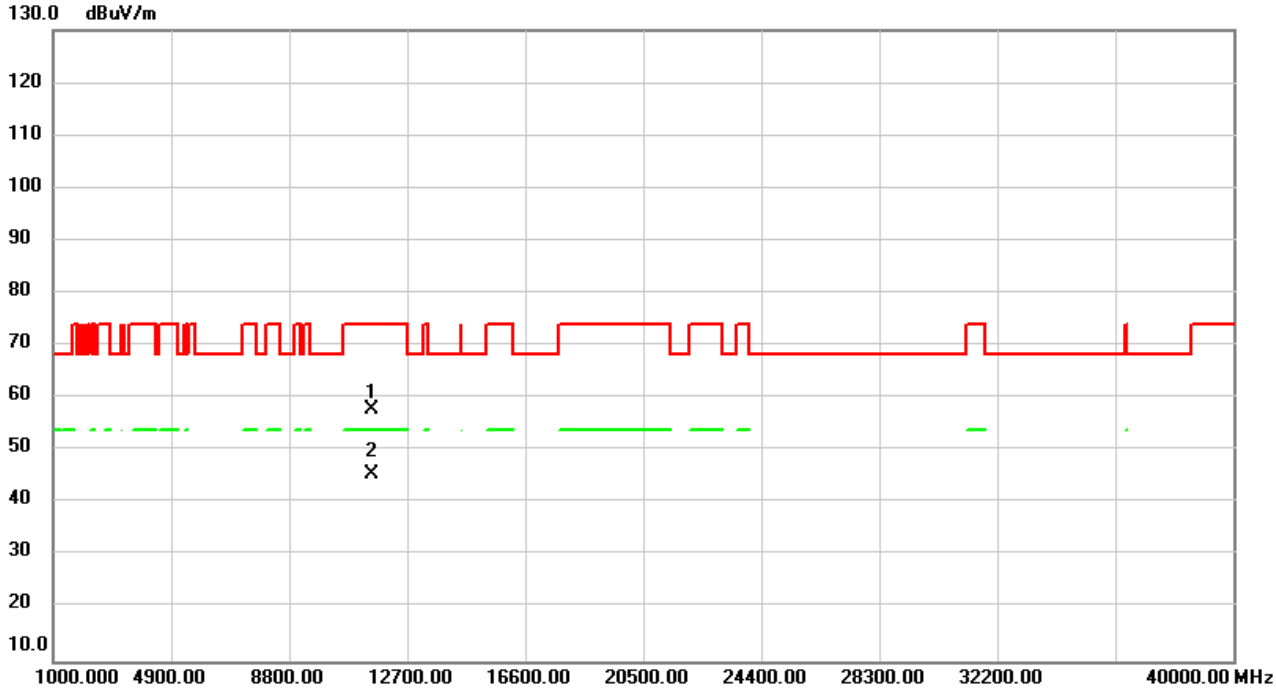
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2022/3/21
Test Frequency	5610MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11220.00	53.58	5.81	59.39	74.00	-14.61	peak	
2	*	11220.00	40.99	5.81	46.80	54.00	-7.20	AVG	

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

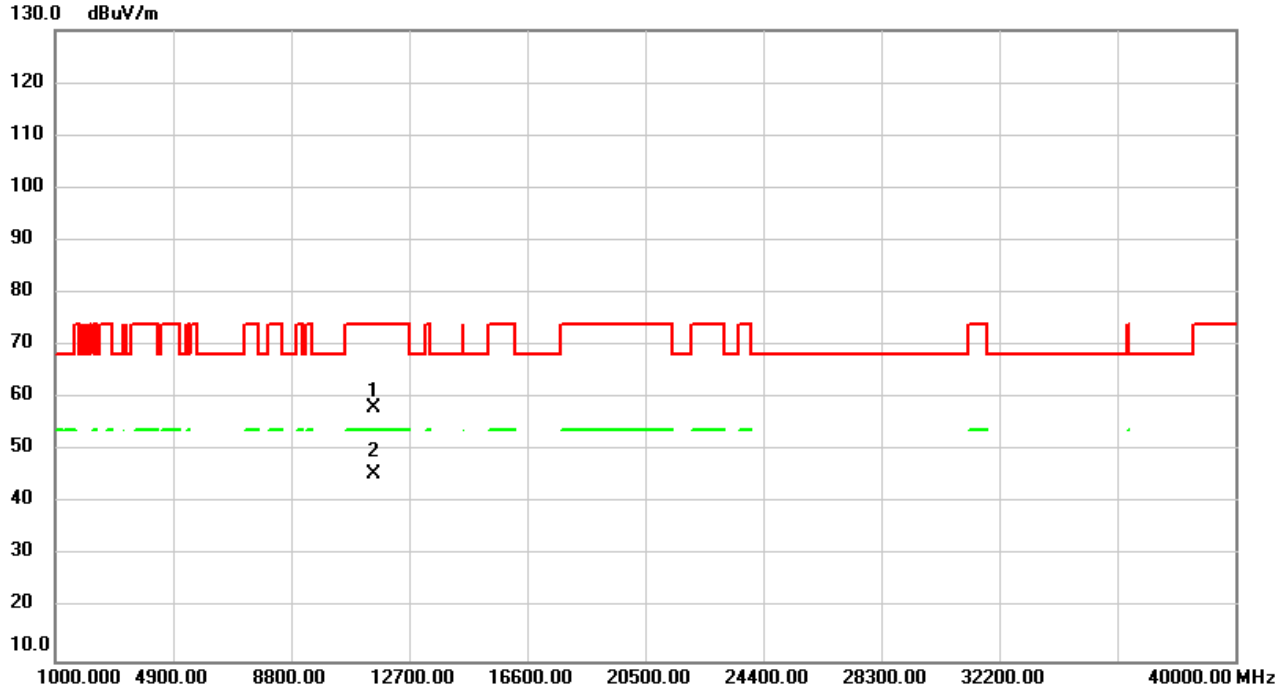
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2022/3/21
Test Frequency	5775MHz	Polarization	Vertical
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11550.00	52.60	5.11	57.71	74.00	-16.29	peak	
2	*	11550.00	40.36	5.11	45.47	54.00	-8.53	AVG	

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

Test Mode	IEEE 802.11ac (VHT80)	Test Date	2022/3/21
Test Frequency	5775MHz	Polarization	Horizontal
Temp	22°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11550.00	53.04	5.11	58.15	74.00	-15.85	peak	
2	*	11550.00	40.33	5.11	45.44	54.00	-8.56	AVG	

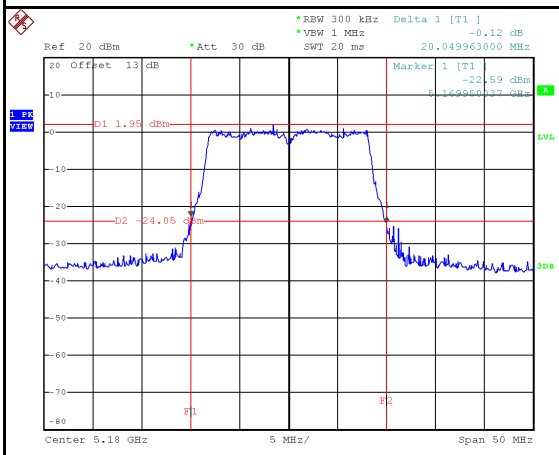
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX D BANDWIDTH

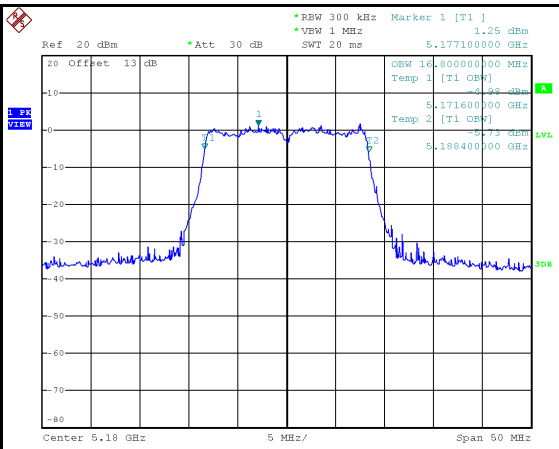
Test Mode	IEEE 802.11a_Aux Antenna

Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5180	20.05	16.80	No limit
5200	20.50	16.90	No limit
5240	20.10	16.80	No limit

5180 MHz

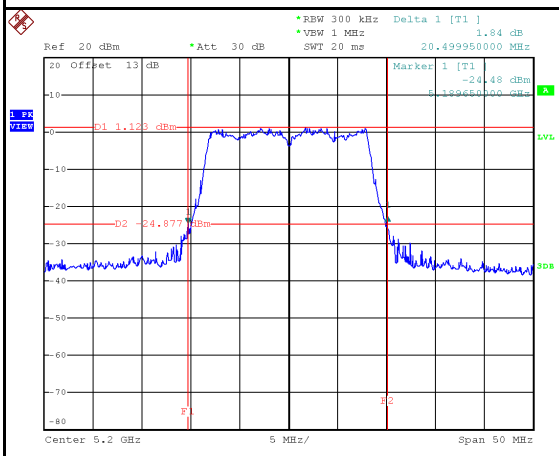


Date: 20.JAN.2022 09:56:51

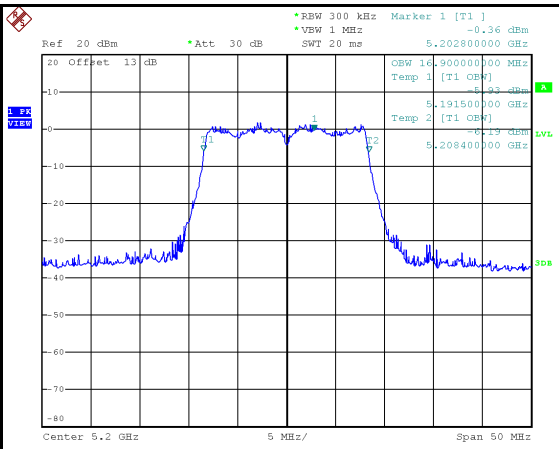


Date: 20.JAN.2022 09:56:13

5200 MHz

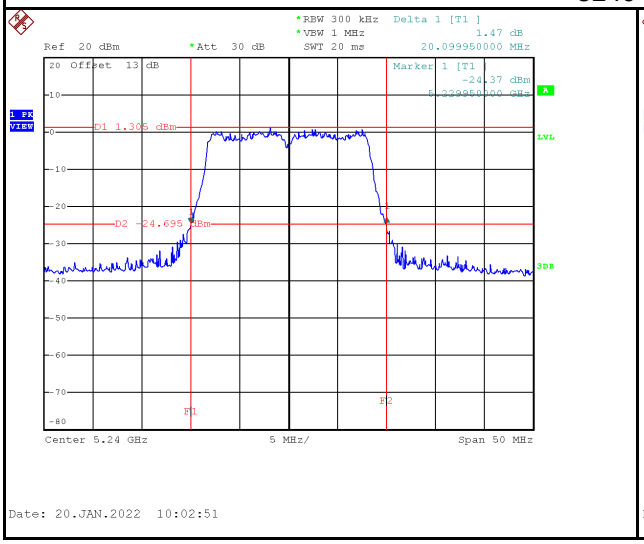


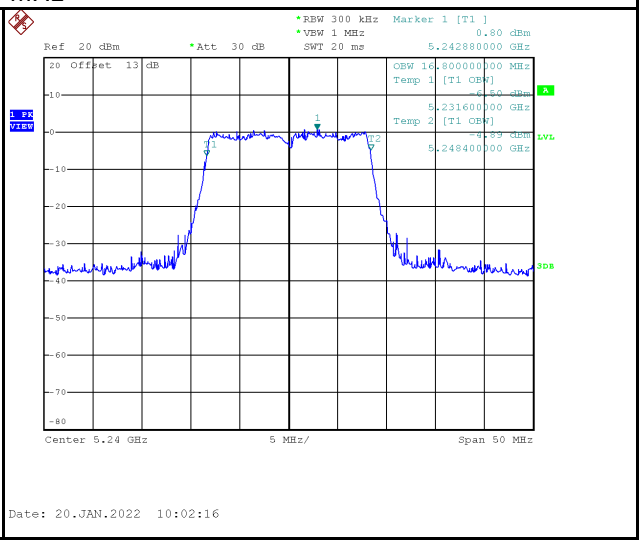
Date: 20.JAN.2022 09:59:28



Date: 20.JAN.2022 09:58:54

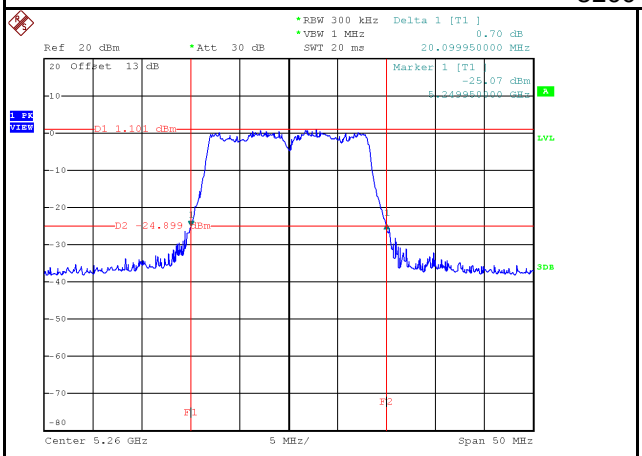
5240 MHz


*RBW 300 kHz Delta 1 [T1]
*VBW 1 MHz 1.47 dB
Ref 20 dBm *Att 30 dB SWT 20 ms 20.099950000 MHz
20 Offset 13 dB
Marker 1 [T1
-24.37 dBm
5.229950100 GHz
D1 1.305 dBm
D2 -24.695 dBm
Center 5.24 GHz 5 MHz/ Span 50 MHz
Date: 20.JAN.2022 10:02:51

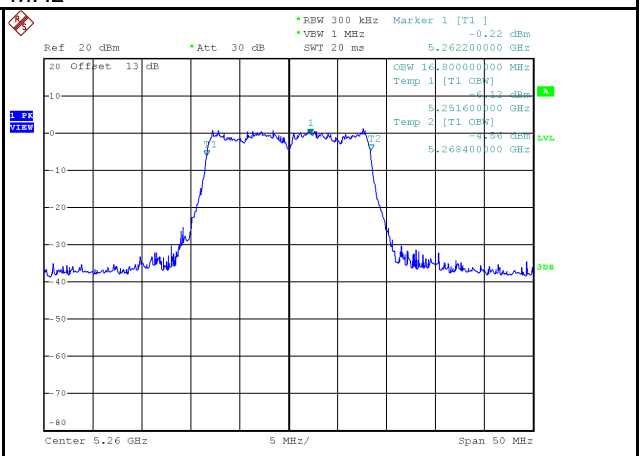

*RBW 300 kHz Marker 1 [T1]
*VBW 1 MHz 0.80 dBm
Ref 20 dBm *Att 30 dB SWT 20 ms 5.242880000 GHz
20 Offset 13 dB
OBW 16.800000000 MHz
Temp 1 [T1 OBW]
5.231600000 GHz
Temp 2 [T1 OBW]
5.248400000 GHz
Center 5.24 GHz 5 MHz/ Span 50 MHz
Date: 20.JAN.2022 10:02:16

Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5260	20.10	16.80	No limit
5300	20.19	16.90	No limit
5320	19.99	16.80	No limit

5260 MHz

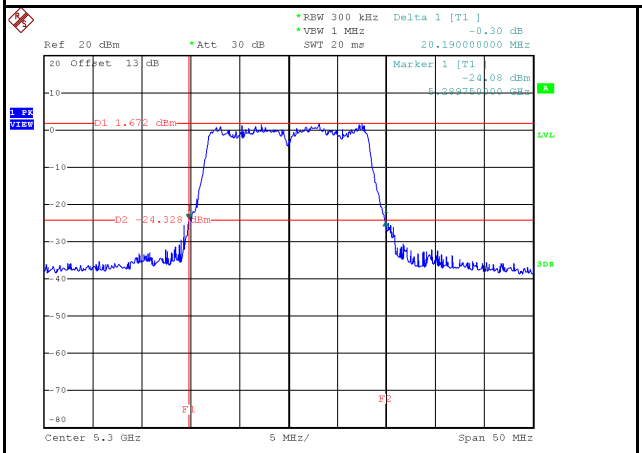


Date: 20.JAN.2022 10:07:32

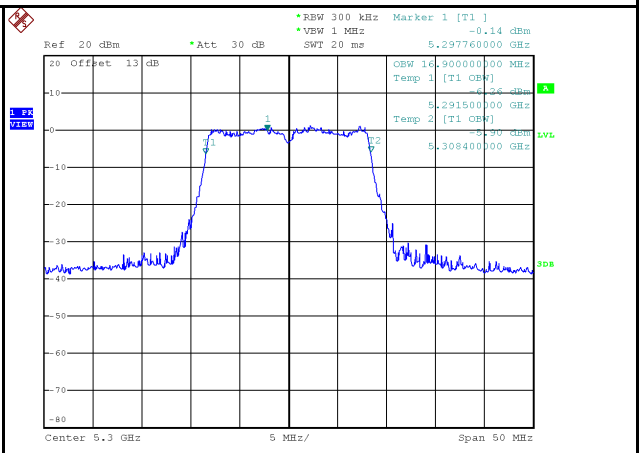


Date: 20.JAN.2022 10:06:55

5300 MHz

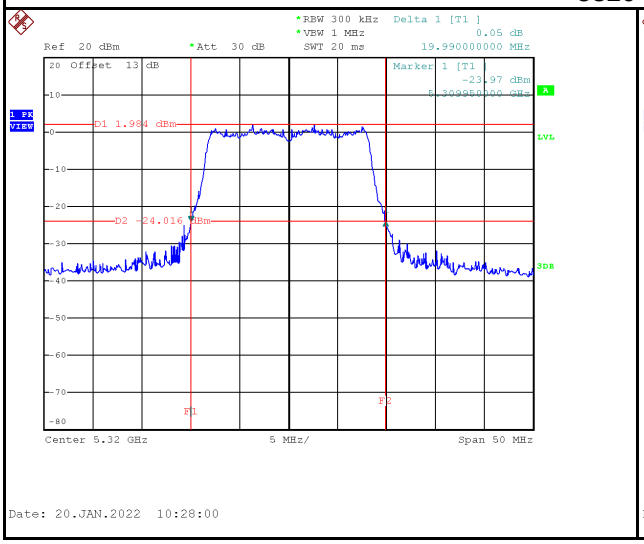


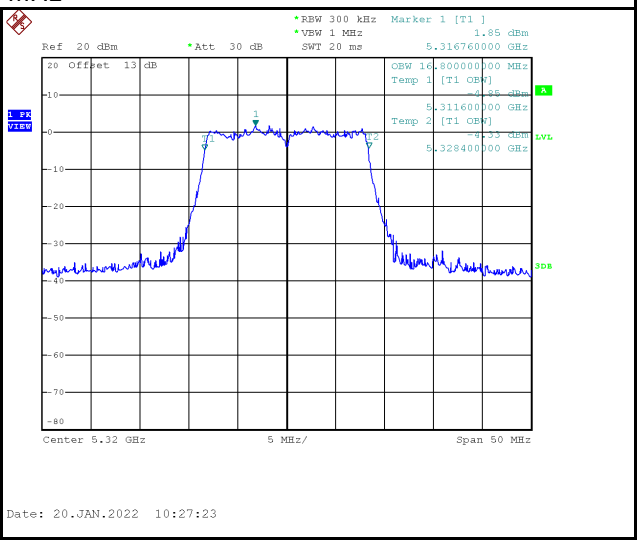
Date: 20.JAN.2022 10:25:30



Date: 20.JAN.2022 10:24:53

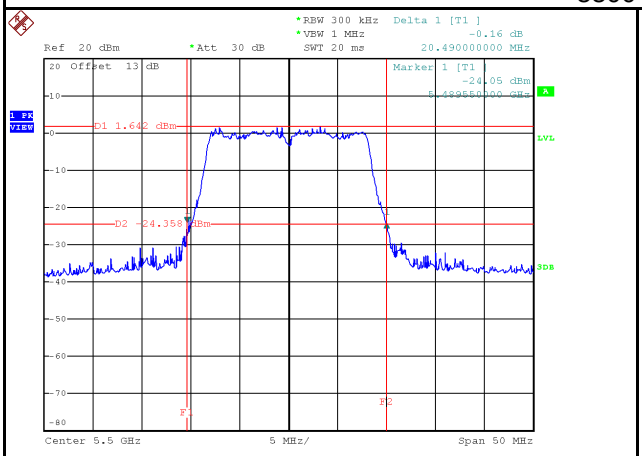
5320 MHz


*RBW 300 kHz
Delta 1 [T1]
*VBW 1 MHz
0.05 dB
Ref 20 dBm
*Att 30 dB
SWT 20 ms
19.990000000 MHz
20 Offset 13 dB
Marker 1 [T1
-23.97 dBm
5.309950100 GHz
D1 1.984 dBm
D2 -24.016 dBm
F1
F2
Center 5.32 GHz
5 MHz/
Span 50 MHz
Date: 20.JAN.2022 10:28:00

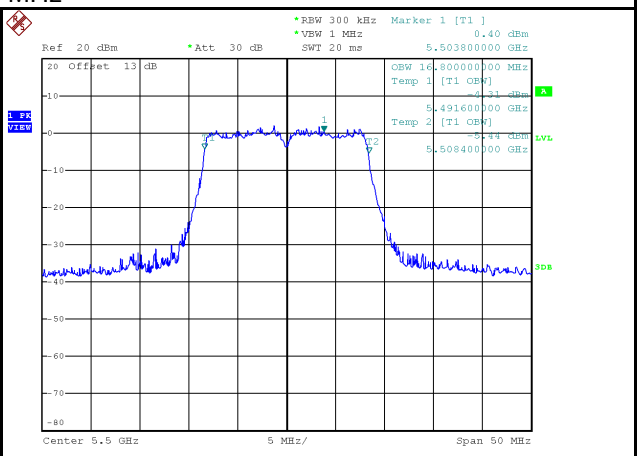

*RBW 300 kHz
Marker 1 [T1]
*VBW 1 MHz
1.85 dBm
Ref 20 dBm
*Att 30 dB
SWT 20 ms
5.316760000 GHz
20 Offset 13 dB
OBW 16.800000000 MHz
Temp 1 [T1 OBW]
5.311600000 GHz
Temp 2 [T1 OBW]
5.328400000 GHz
Center 5.32 GHz
5 MHz/
Span 50 MHz
Date: 20.JAN.2022 10:27:23

Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5500	20.49	16.80	No limit
5580	21.15	16.90	No limit
5700	20.15	16.80	No limit

5500 MHz

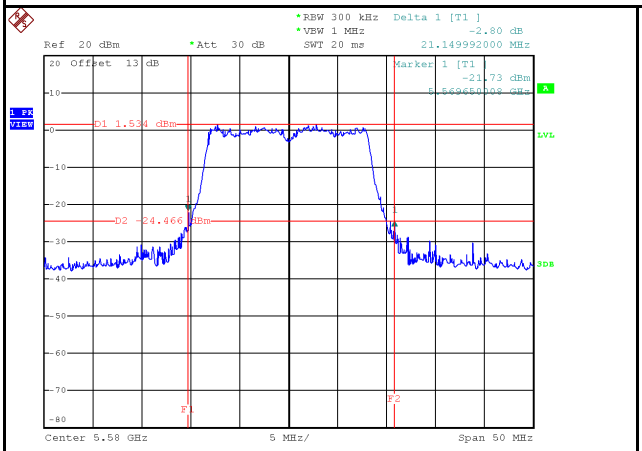


Date: 20.JAN.2022 10:33:35

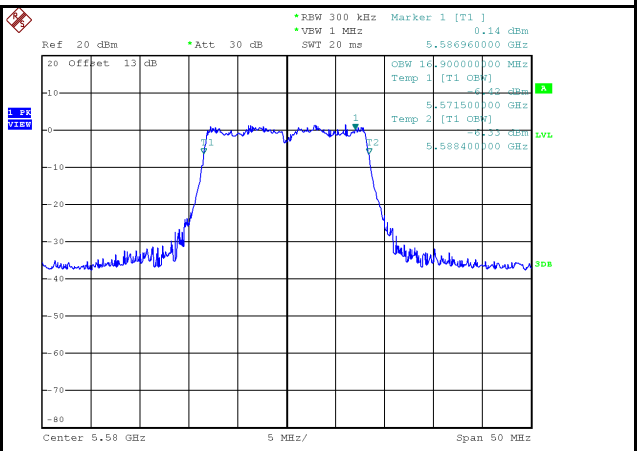


Date: 20.JAN.2022 10:32:59

5580 MHz

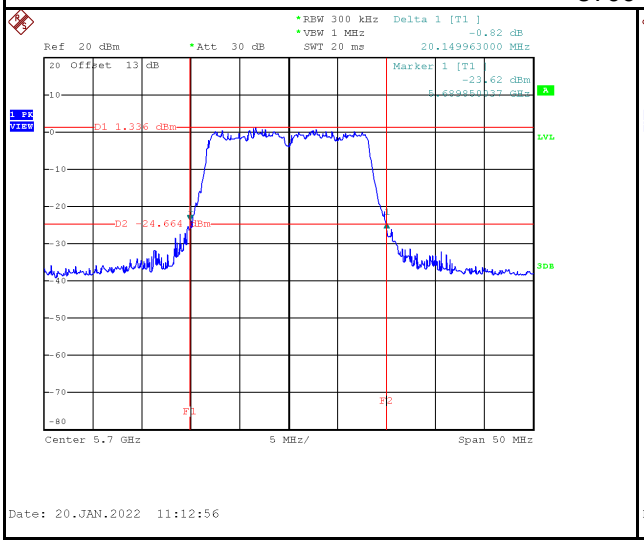


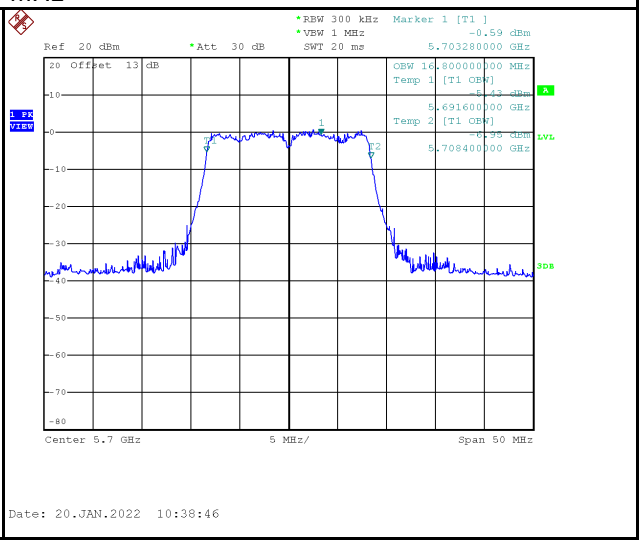
Date: 20.JAN.2022 10:36:16



Date: 20.JAN.2022 10:35:40

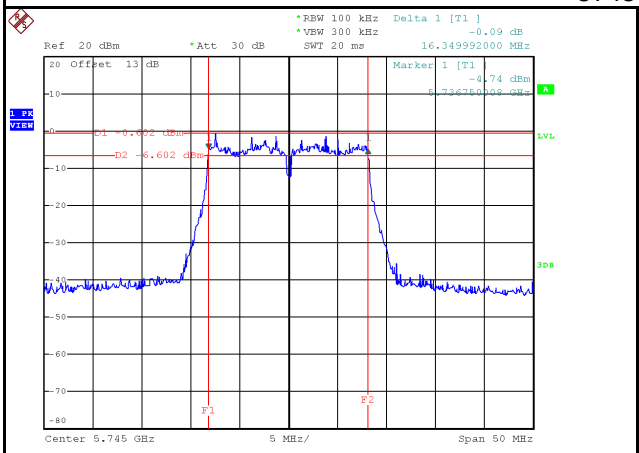
5700 MHz


*RBW 300 kHz Delta 1 [T1]
*VBW 1 MHz -0.82 dB
Ref 20 dBm *Att 30 dB SWT 20 ms 20.149963000 MHz
20 Offset 13 dB
Marker 1 [T1
-23.62 dBm
5.689850137 GHz
D1 1.336 dBm
D2 -24.664 dBm
F1
F2
Center 5.7 GHz 5 MHz/ Span 50 MHz
Date: 20.JAN.2022 11:12:56

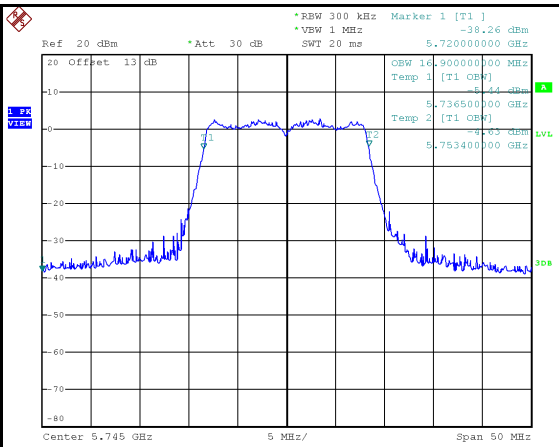

*RBW 300 kHz Marker 1 [T1]
*VBW 1 MHz -0.59 dBm
Ref 20 dBm *Att 30 dB SWT 20 ms 5.703280000 GHz
20 Offset 13 dB
OBW 16.800000000 MHz
Temp 1 [T1 OBW]
5.691600000 GHz
Temp 2 [T1 OBW]
5.708400000 GHz
Center 5.7 GHz 5 MHz/ Span 50 MHz
Date: 20.JAN.2022 10:38:46

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
5745	16.35	16.90	500	Pass
5785	16.45	16.80	500	Pass
5825	16.45	16.80	500	Pass

5745 MHz

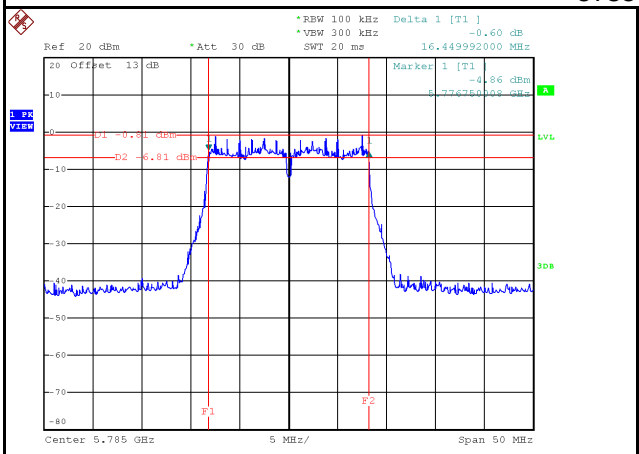


Date: 28.MAR.2022 17:52:45

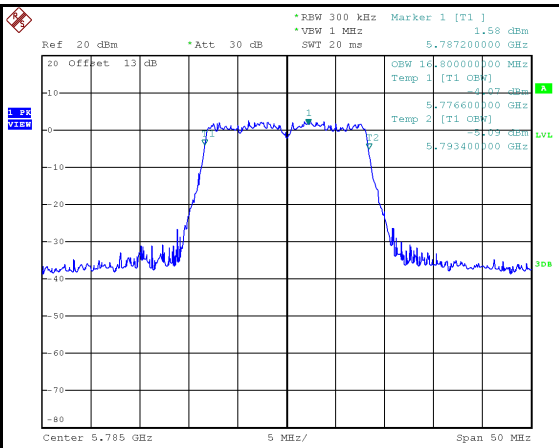


Date: 28.MAR.2022 17:52:11

5785 MHz

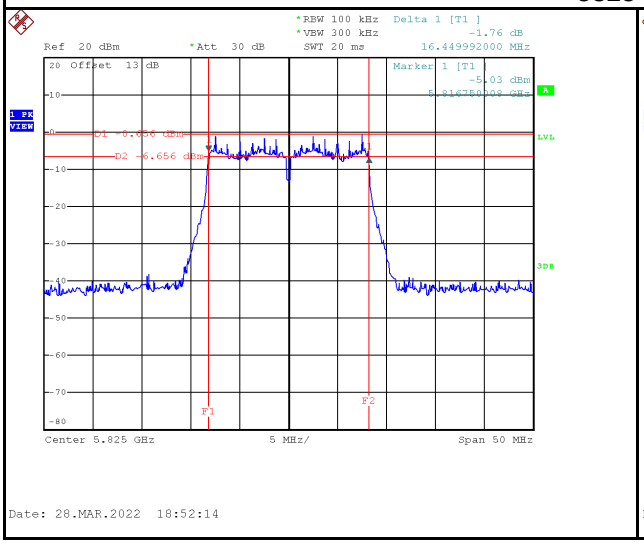


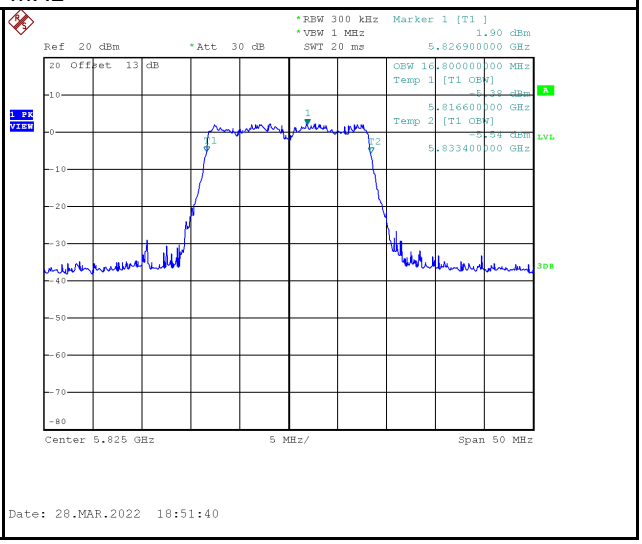
Date: 28.MAR.2022 18:32:26



Date: 28.MAR.2022 18:31:52

5825 MHz

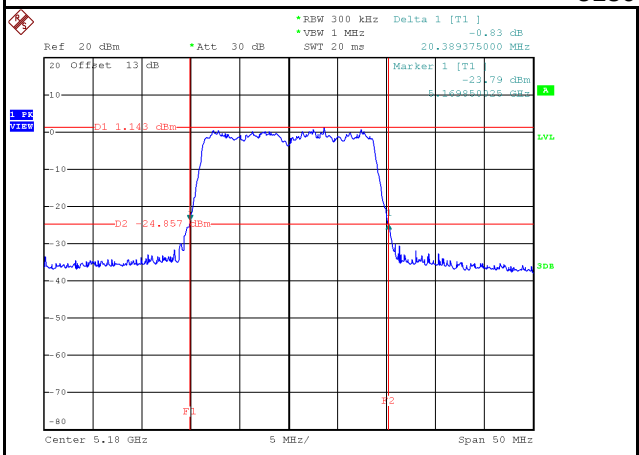

*RBW 100 kHz
*VBW 300 kHz
SWT 20 ms
Delta 1 [T1]
-1.76 dB
16.449992000 MHz
Ref 20 dBm
*Att 30 dB
20 Offset 13 dB
Marker 1 [T1
-5.03 dBm
5.816750108 GHz
D1 -0.656 dBm
D2 -6.656 dBm
F1
F2
Center 5.825 GHz
5 MHz/
Span 50 MHz
Date: 28.MAR.2022 18:52:14


*RBW 300 kHz
*VBW 1 MHz
SWT 20 ms
Marker 1 [T1]
1.90 dBm
5.826900000 GHz
Ref 20 dBm
*Att 30 dB
20 Offset 13 dB
OBW 16.800000000 MHz
Temp 1 [T1 OBW]
-5.38 dBm
5.816600000 GHz
Temp 2 [T1 OBW]
-5.54 dBm
5.833400000 GHz
T1
T2
Center 5.825 GHz
5 MHz/
Span 50 MHz
Date: 28.MAR.2022 18:51:40

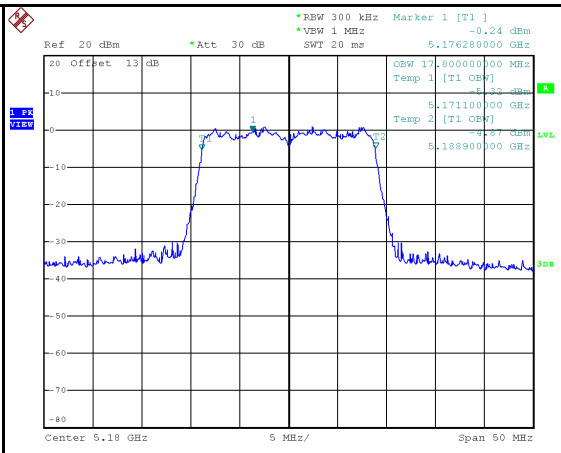
Test Mode	IEEE 802.11n (HT20)_Aux Antenna

Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5180	20.39	17.80	No limit
5200	20.85	17.80	No limit
5240	20.55	17.80	No limit

5180 MHz

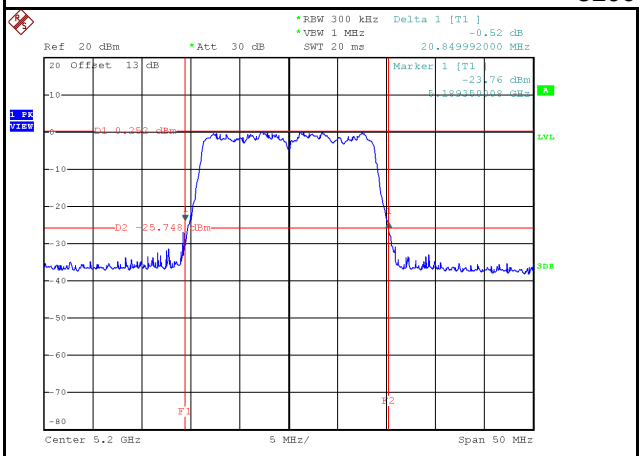


Date: 20.JAN.2022 11:19:58

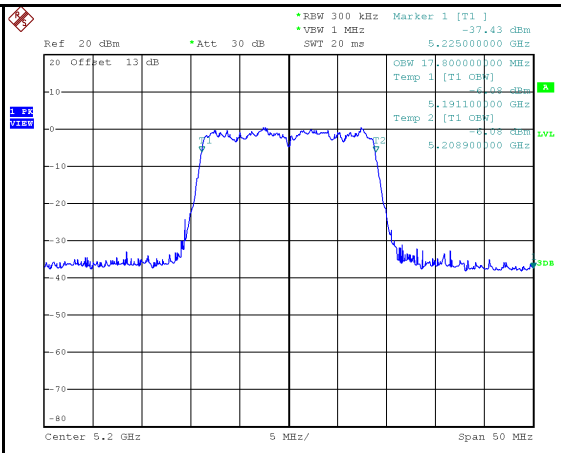


Date: 20.JAN.2022 11:19:21

5200 MHz

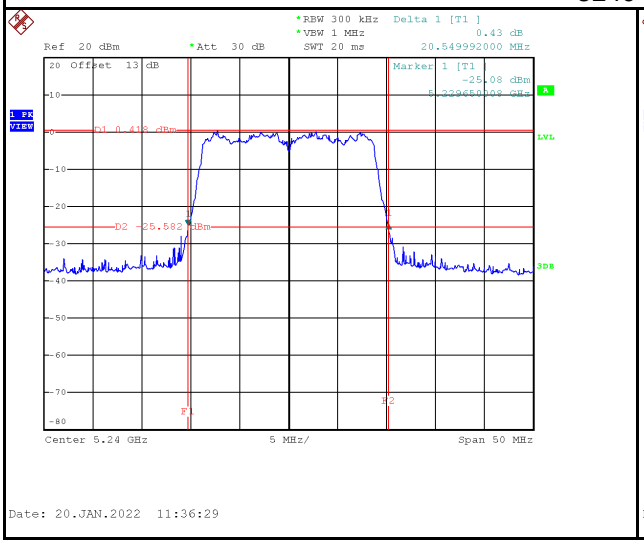


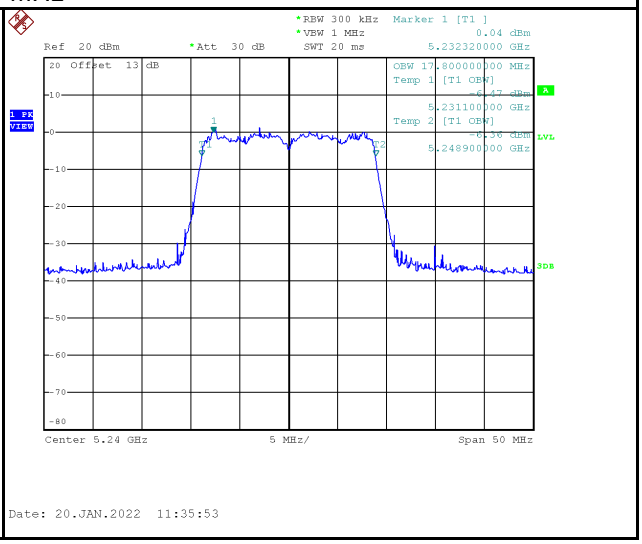
Date: 20.JAN.2022 11:25:20



Date: 20.JAN.2022 11:24:45

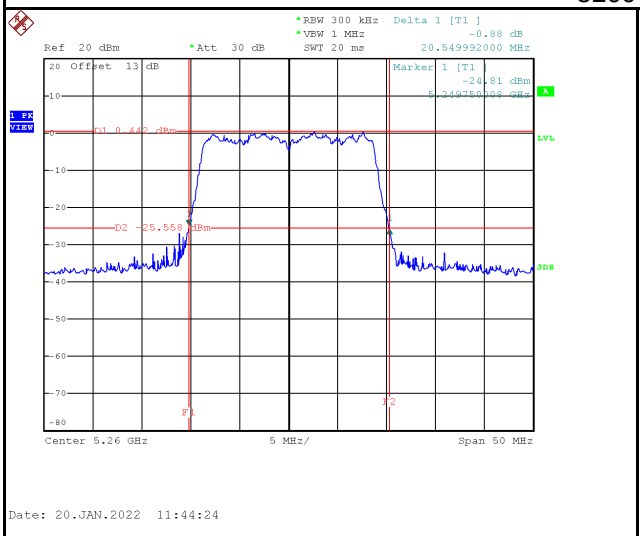
5240 MHz

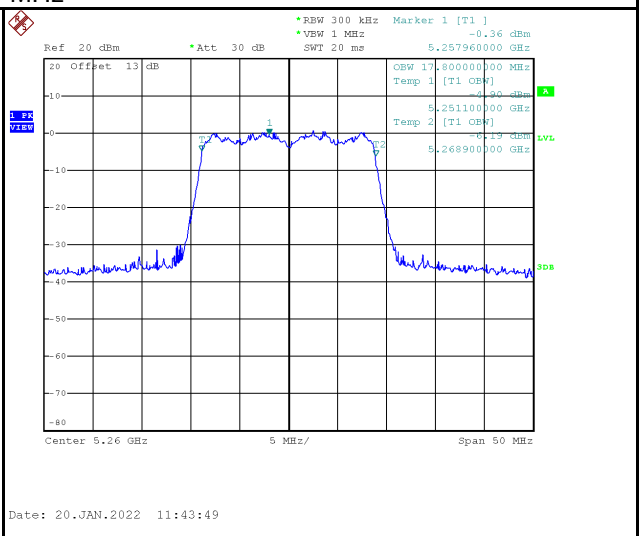

*RBW 300 kHz Delta 1 [T1]
*VBW 1 MHz 0.43 dB
Ref 20 dBm *Att 30 dB SWT 20 ms 20.549992000 MHz
20 Offset 13 dB
Marker 1 [T1
-25.08 dBm
5.229650108 GHz
D1 0.418 dBm
D2 -25.582 dBm
F1
F2
Center 5.24 GHz 5 MHz/ Span 50 MHz
Date: 20.JAN.2022 11:36:29


*RBW 300 kHz Marker 1 [T1]
*VBW 1 MHz 0.04 dBm
Ref 20 dBm *Att 30 dB SWT 20 ms 5.232320000 GHz
20 Offset 13 dB
OBW 17.800000000 MHz
Temp 1 [T1 OBW]
5.231100000 GHz
Temp 2 [T1 OBW]
5.248900000 GHz
Center 5.24 GHz 5 MHz/ Span 50 MHz
Date: 20.JAN.2022 11:35:53

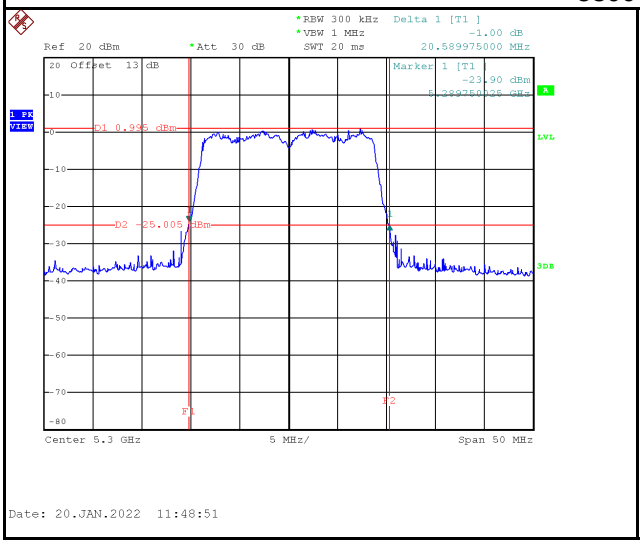
Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5260	20.55	17.80	No limit
5300	20.59	17.80	No limit
5320	20.59	17.80	No limit

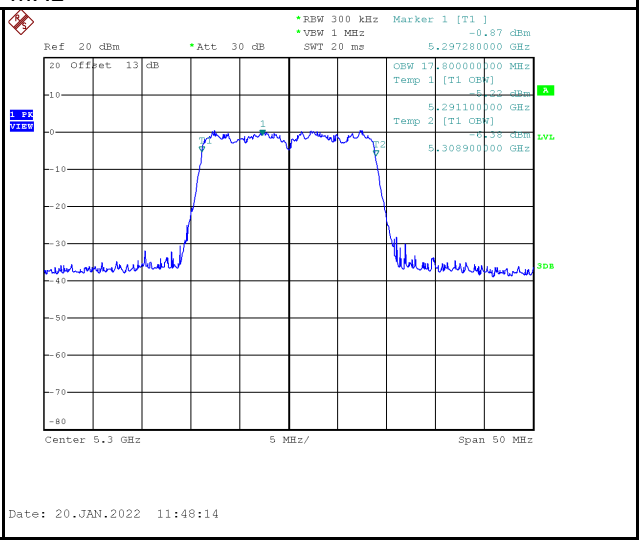
5260 MHz



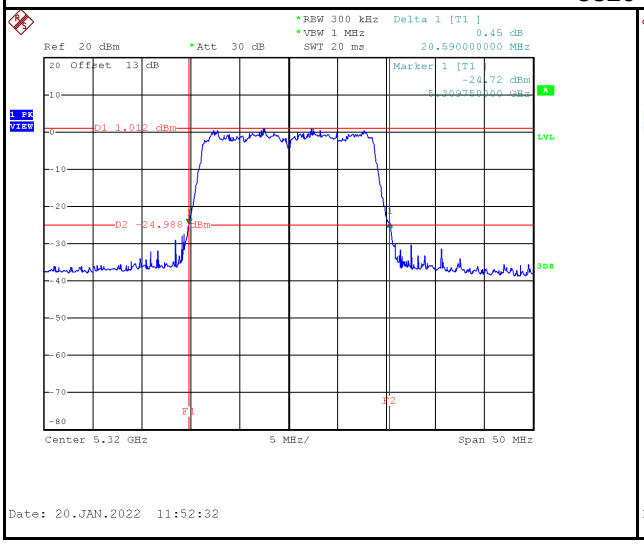


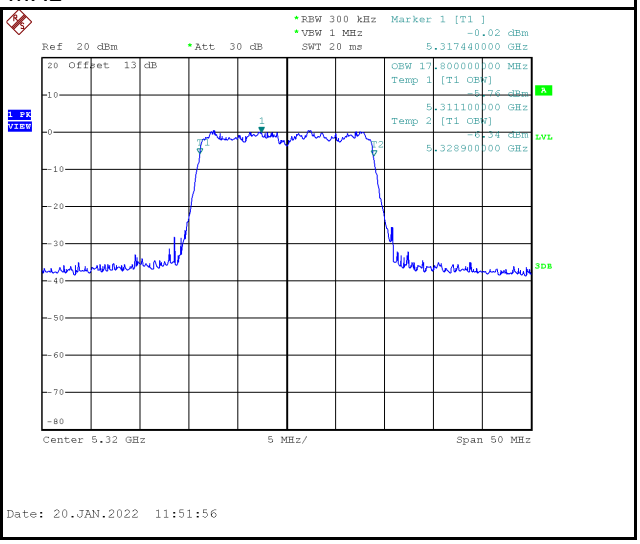
5300 MHz





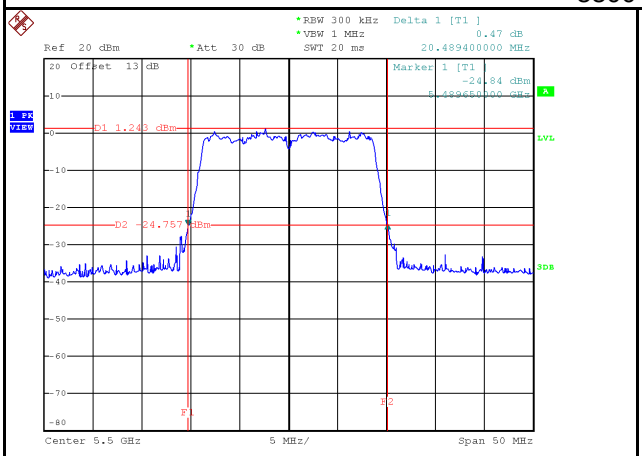
5320 MHz


RBW 300 kHz
Delta 1 [T1]
VBW 1 MHz
0.45 dB
Ref 20 dBm
Att 30 dB
SWT 20 ms
20.590000000 MHz
20 Offset 13 dB
Marker 1 [T1
-24.72 dBm
5.309750000 GHz
D1 1.012 dBm
D2 -24.988 dBm
Center 5.32 GHz
5 MHz/
Span 50 MHz
Date: 20.JAN.2022 11:52:32

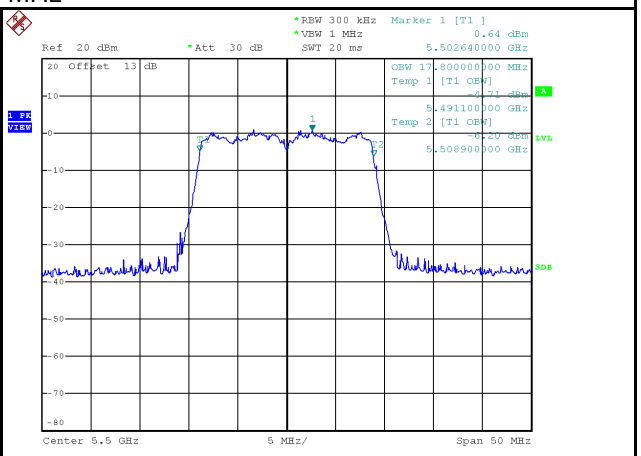

RBW 300 kHz
Marker 1 [T1]
VBW 1 MHz
-0.02 dBm
Ref 20 dBm
Att 30 dB
SWT 20 ms
5.317440000 GHz
20 Offset 13 dB
OBW 17.800000000 MHz
Temp 1 [T1 OBW]
5.311100000 GHz
Temp 2 [T1 OBW]
5.328900000 GHz
Center 5.32 GHz
5 MHz/
Span 50 MHz
Date: 20.JAN.2022 11:51:56

Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5500	20.49	17.80	No limit
5580	20.51	17.80	No limit
5700	20.65	17.80	No limit

5500 MHz

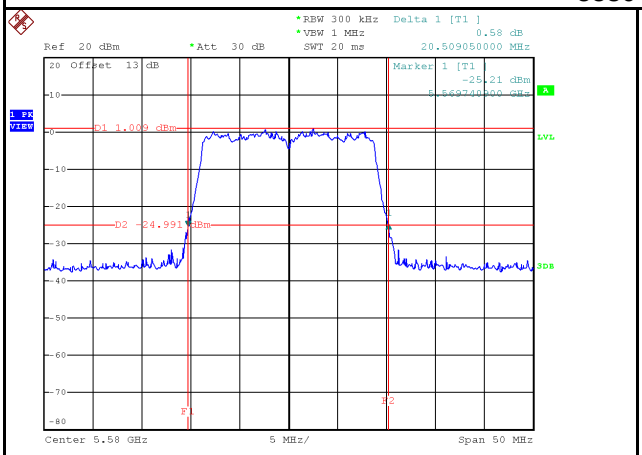


Date: 20.JAN.2022 11:56:03

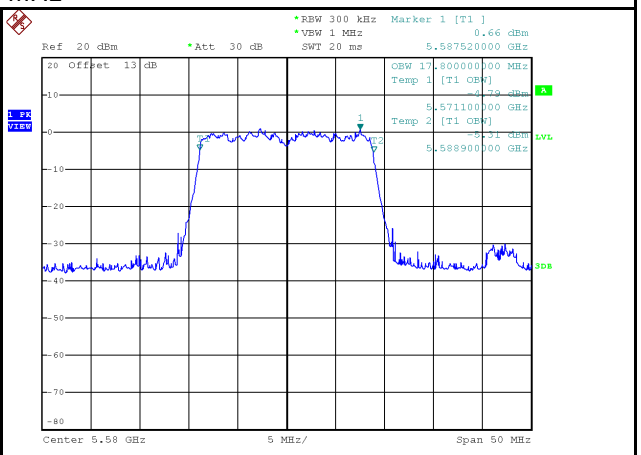


Date: 20.JAN.2022 11:55:26

5580 MHz

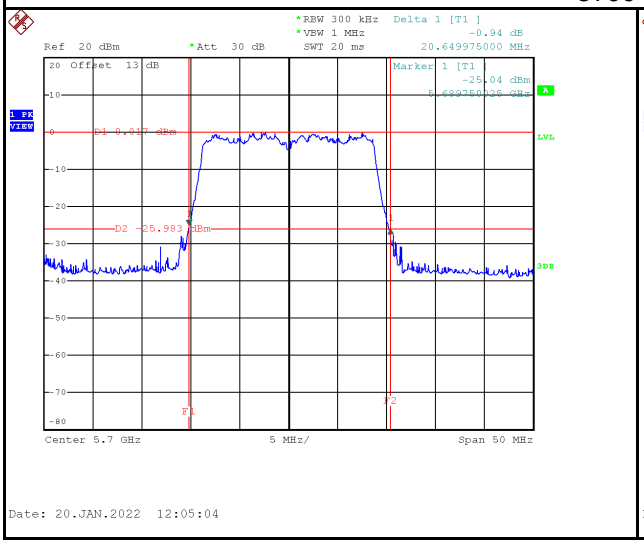


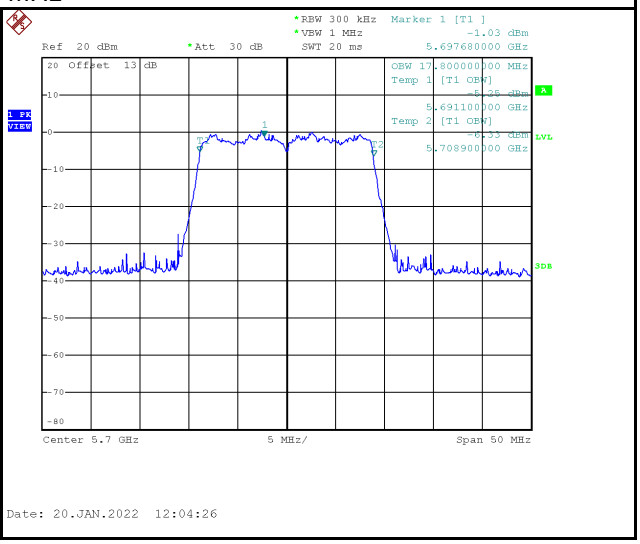
Date: 20.JAN.2022 12:01:32



Date: 20.JAN.2022 12:00:56

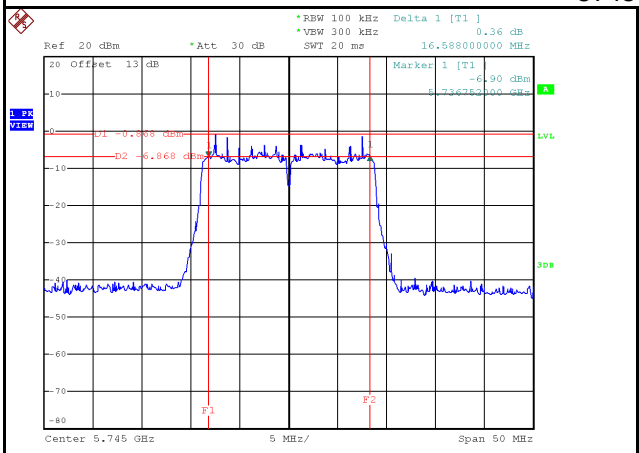
5700 MHz


*RBW 300 kHz
Delta 1 [T1]
*VBW 1 MHz
-0.94 dB
Ref 20 dBm
*Att 30 dB
SWT 20 ms
20.649975000 MHz
20 Offset 13 dB
Marker 1 [T1
-25.04 dBm
5.689750125 GHz
D1 0.017 dBm
D2 -25.983 dBm
F1
F2
Center 5.7 GHz
5 MHz/
Span 50 MHz
Date: 20.JAN.2022 12:05:04

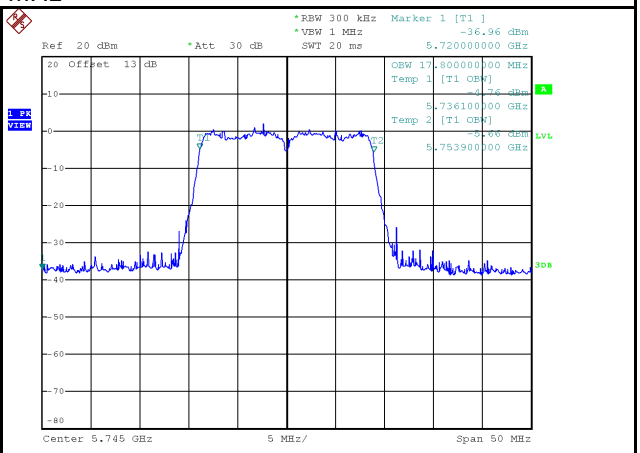

*RBW 300 kHz
Marker 1 [T1]
*VBW 1 MHz
-1.03 dBm
Ref 20 dBm
*Att 30 dB
SWT 20 ms
5.697680000 GHz
20 Offset 13 dB
OBW 17.800000000 MHz
Temp 1 [T1 OBW]
5.691100000 GHz
Temp 2 [T1 OBW]
5.708900000 GHz
Center 5.7 GHz
5 MHz/
Span 50 MHz
Date: 20.JAN.2022 12:04:26

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
5745	16.59	17.80	500	Pass
5785	17.12	17.80	500	Pass
5825	16.79	17.80	500	Pass

5745 MHz

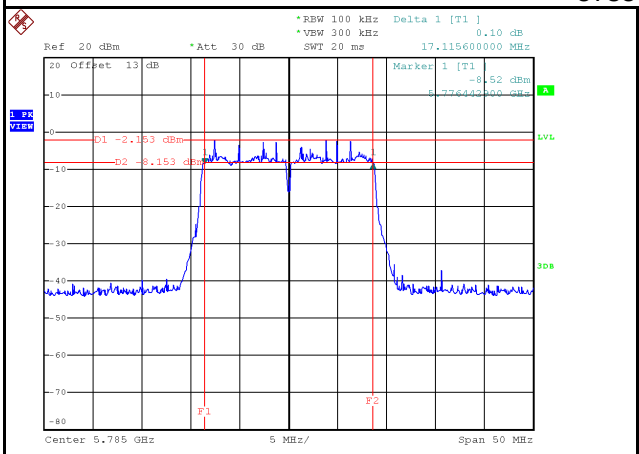


Date: 29.MAR.2022 11:56:31

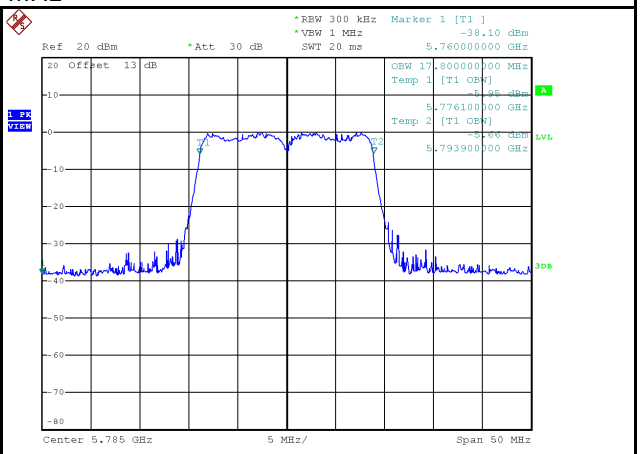


Date: 29.MAR.2022 11:55:57

5785 MHz

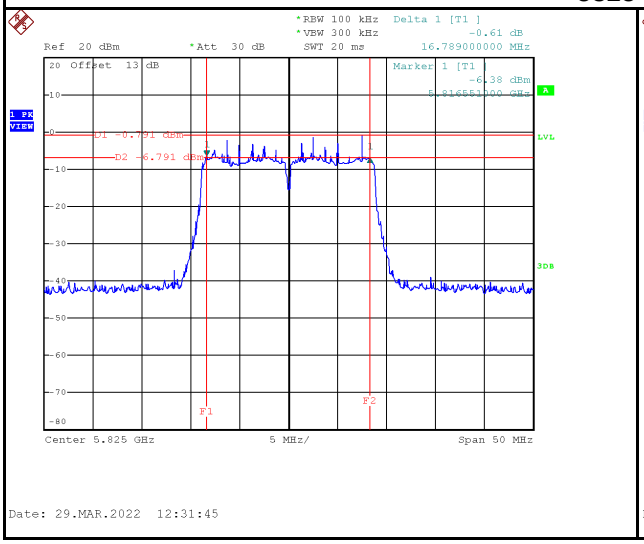


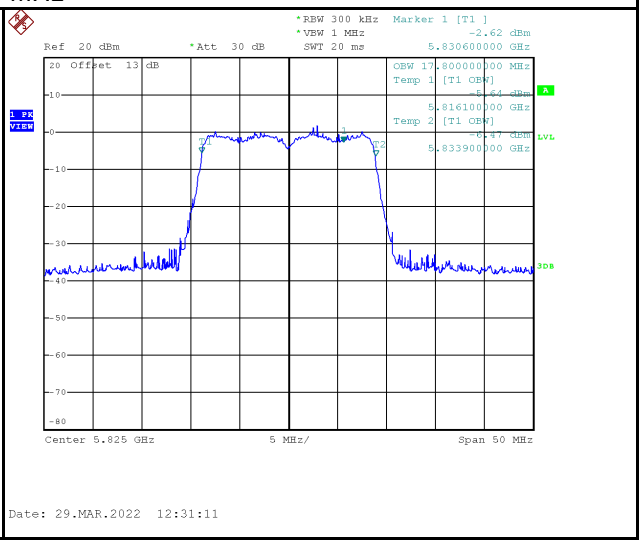
Date: 29.MAR.2022 12:07:41



Date: 29.MAR.2022 12:07:07

5825 MHz

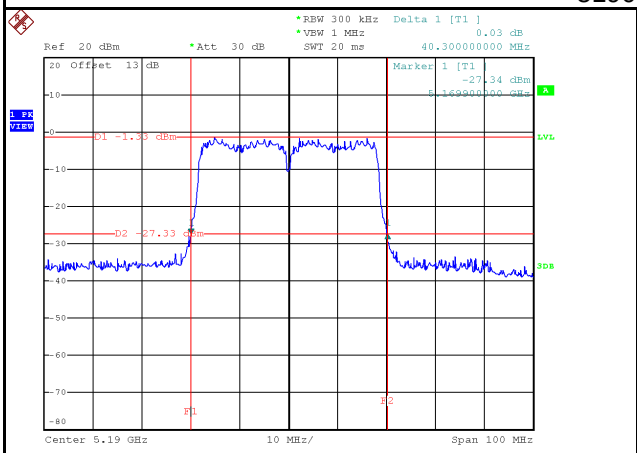

*RBW 100 kHz
Delta 1 [T1]
*VBW 300 kHz
-0.61 dB
Ref 20 dBm
*Att 30 dB
SWT 20 ms
16.789000000 MHz
20 Offset 13 dB
Marker 1 [T1
-6.38 dBm
5.816551100 GHz
D1 -0.791 dBm
D2 -6.791 dBm
F1
F2
Center 5.825 GHz
5 MHz/
Span 50 MHz
Date: 29.MAR.2022 12:31:45


*RBW 300 kHz
Marker 1 [T1]
*VBW 1 MHz
-2.62 dBm
Ref 20 dBm
*Att 30 dB
SWT 20 ms
5.830600000 GHz
20 Offset 13 dB
OBW 17.800000000 MHz
Temp 1 [T1 OBW]
-5.64 dBm
5.816100000 GHz
Temp 2 [T1 OBW]
-6.47 dBm
5.833900000 GHz
Center 5.825 GHz
5 MHz/
Span 50 MHz
Date: 29.MAR.2022 12:31:11

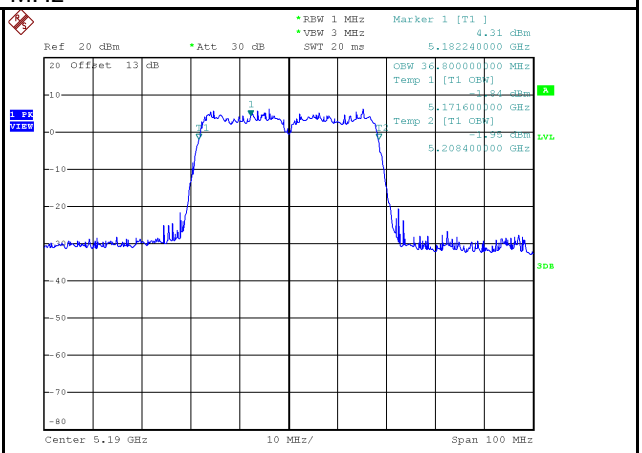
Test Mode	IEEE 802.11n (HT40)_Aux Antenna

Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5190	40.30	36.80	No limit
5230	40.00	37.00	No limit

5190 MHz

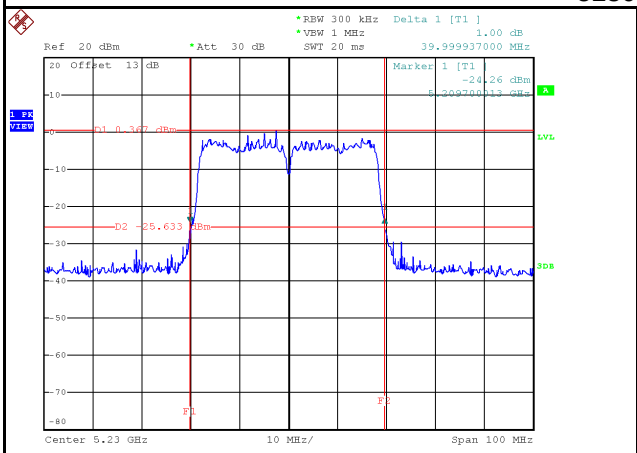


Date: 20.JAN.2022 13:55:51

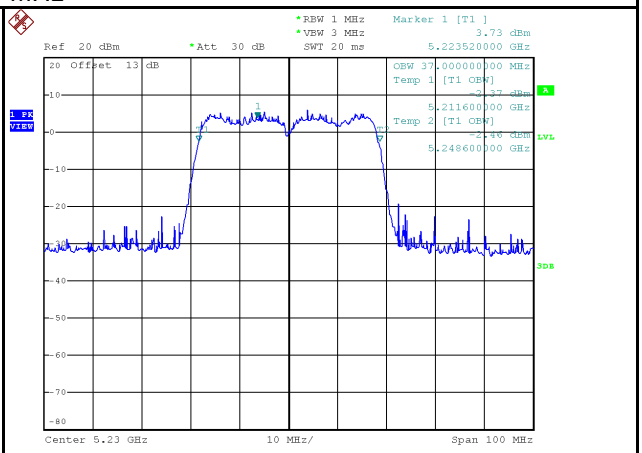


Date: 20.JAN.2022 13:54:56

5230 MHz



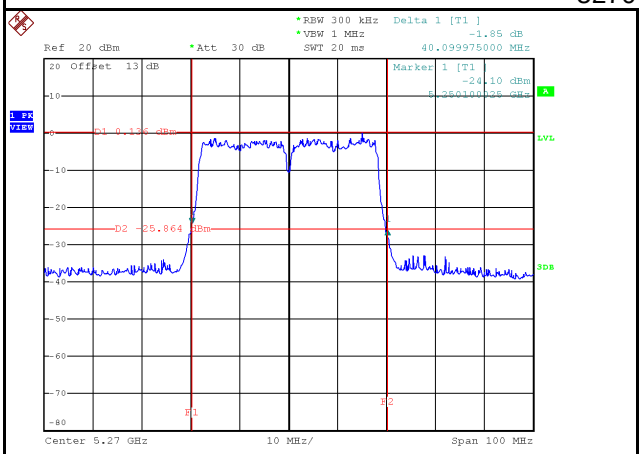
Date: 20.JAN.2022 13:59:01



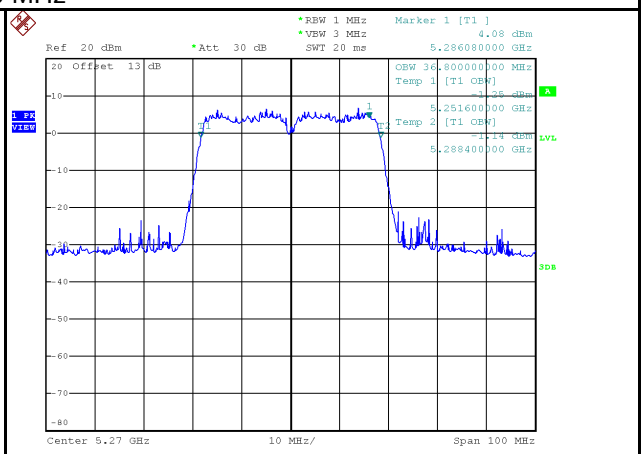
Date: 20.JAN.2022 13:58:11

Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5270	40.10	36.80	No limit
5310	39.50	37.00	No limit

5270 MHz

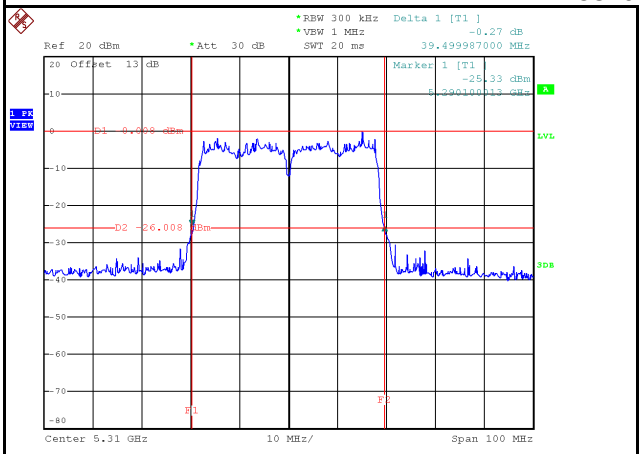


Date: 20.JAN.2022 14:03:02

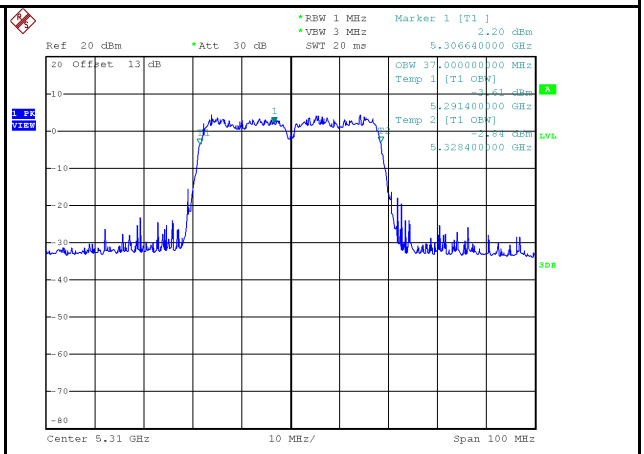


Date: 20.JAN.2022 14:02:12

5310 MHz



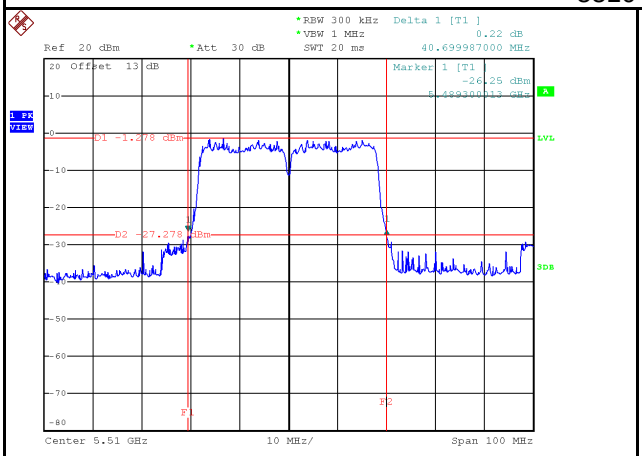
Date: 20.JAN.2022 14:06:56



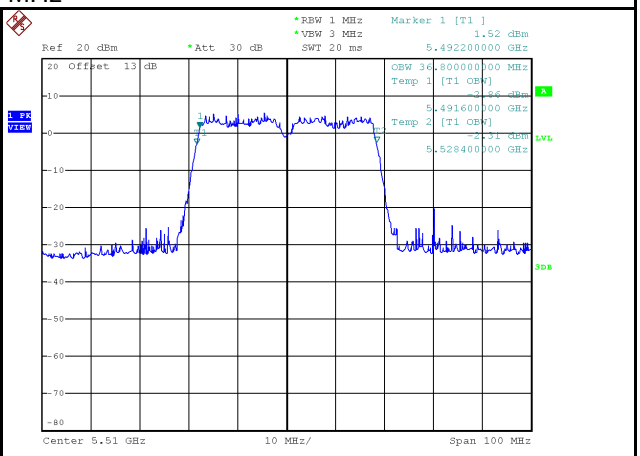
Date: 20.JAN.2022 14:06:05

Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5510	40.70	36.80	No limit
5550	40.61	37.00	No limit
5670	40.50	37.00	No limit

5510 MHz

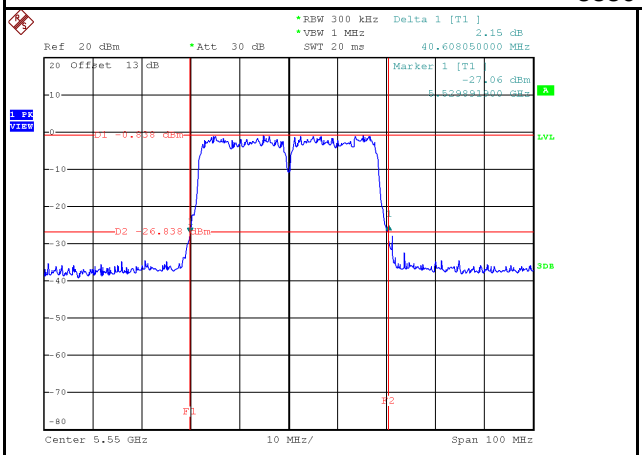


Date: 20.JAN.2022 14:11:11

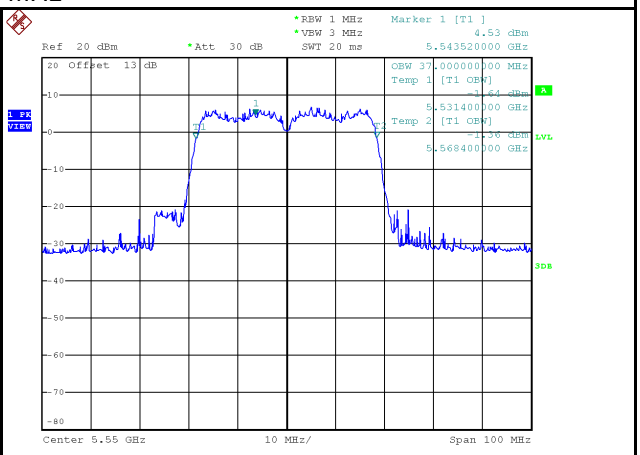


Date: 20.JAN.2022 14:10:18

5550 MHz

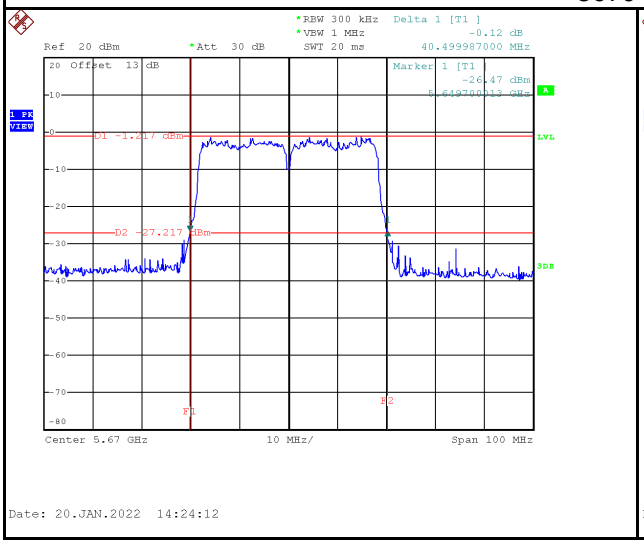


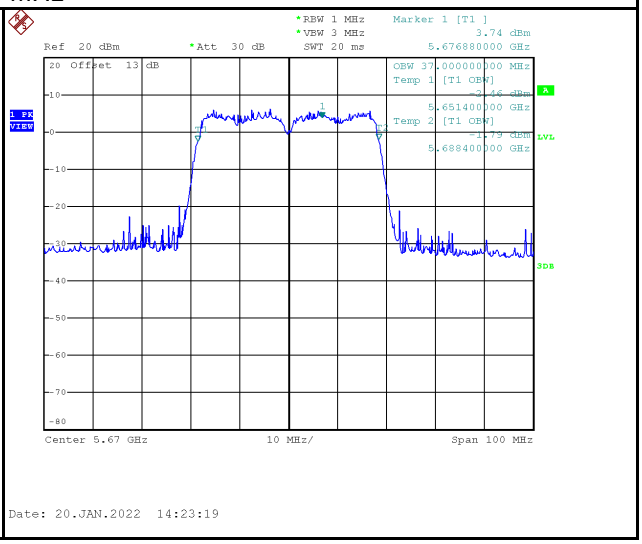
Date: 20.JAN.2022 14:18:26



Date: 20.JAN.2022 14:17:36

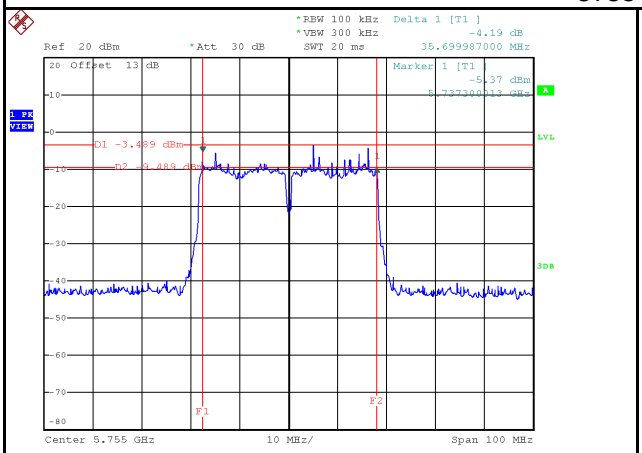
5670 MHz


*RBW 300 kHz
Delta 1 [T1]
*VBW 1 MHz
-0.12 dB
Ref 20 dBm
*Att 30 dB
SWT 20 ms
40.499987000 MHz
20 Offset 13 dB
Marker 1 [T1
-26.47 dBm
5.649700113 GHz
D1 -1.217 dBm
D2 -27.217 dBm
F1
F2
Center 5.67 GHz
10 MHz/
Span 100 MHz
Date: 20.JAN.2022 14:24:12

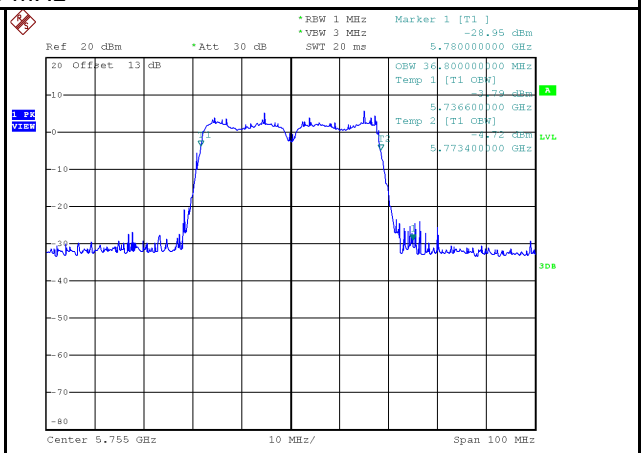

*RBW 1 MHz
Marker 1 [T1]
*VBW 3 MHz
3.74 dBm
Ref 20 dBm
*Att 30 dB
SWT 20 ms
5.676880000 GHz
20 Offset 13 dB
OBW 37.000000000 MHz
Temp 1 [T1 OBW]
5.651400000 GHz
Temp 2 [T1 OBW]
5.688400000 GHz
Center 5.67 GHz
10 MHz/
Span 100 MHz
Date: 20.JAN.2022 14:23:19

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
5755	35.70	36.80	500	Pass
5795	33.39	36.60	500	Pass

5755 MHz

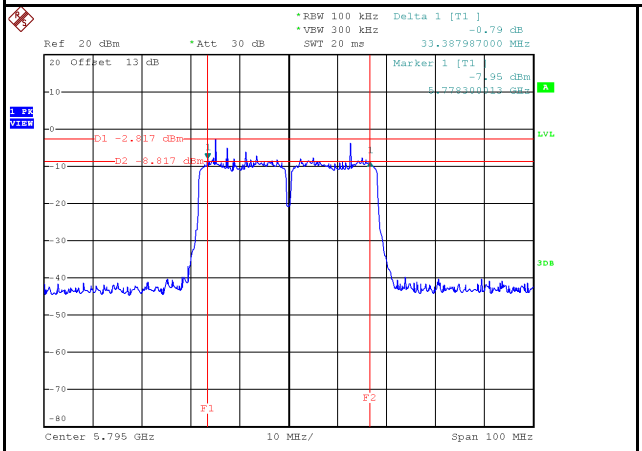


Date: 29.MAR.2022 12:44:31

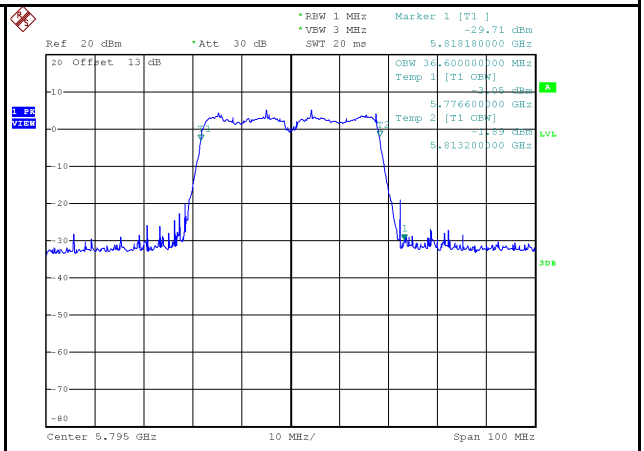


Date: 29.MAR.2022 12:43:45

5795 MHz



Date: 29.MAR.2022 13:01:57

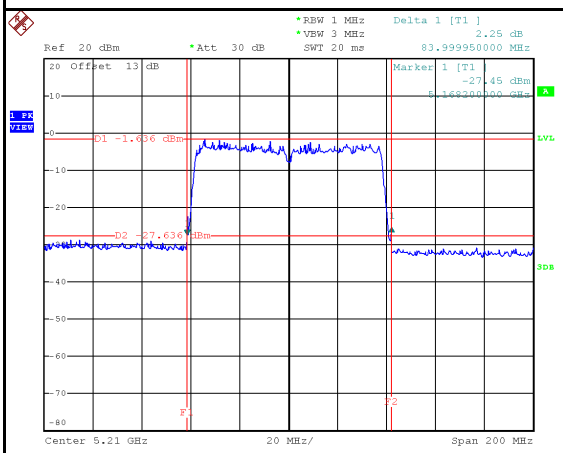


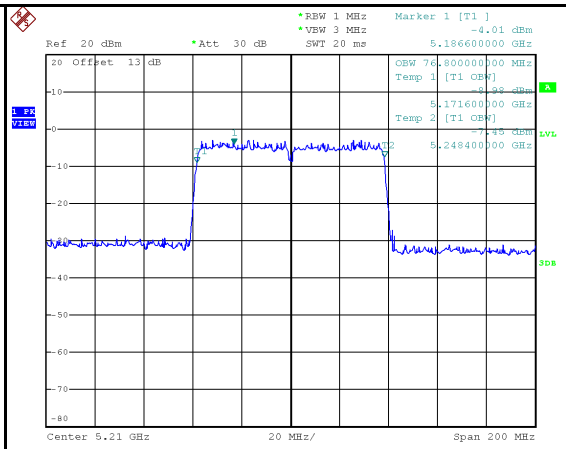
Date: 29.MAR.2022 13:01:04

Test Mode	IEEE 802.11ac (VHT80)_Aux Antenna

Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5210	84.00	76.80	No limit

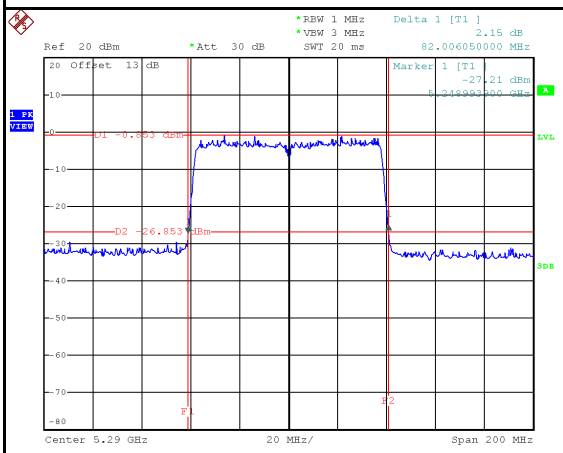
5210 MHz

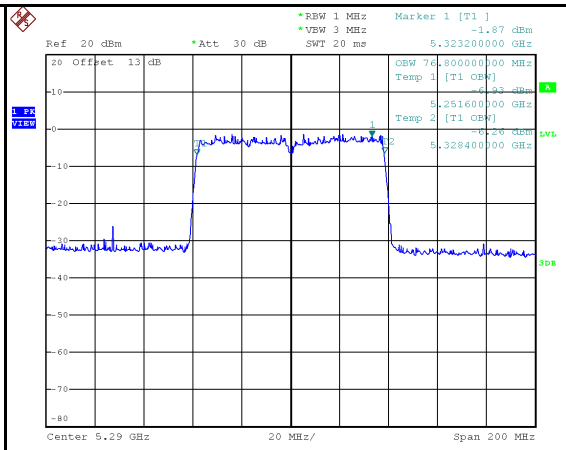




Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5290	82.01	76.80	No limit

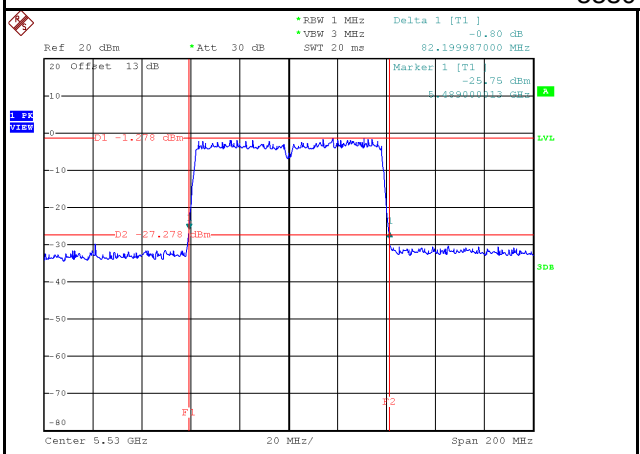
5290 MHz



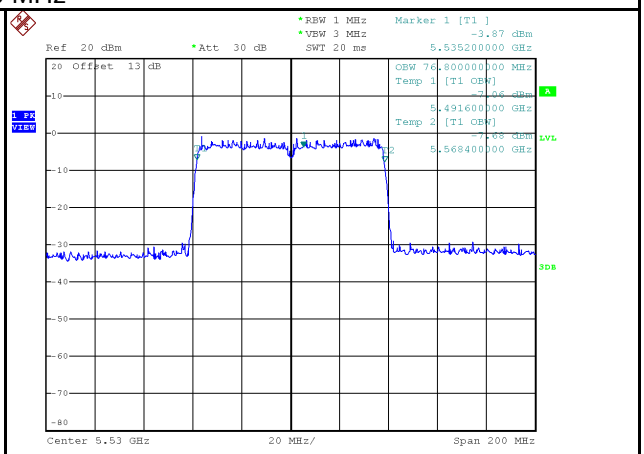


Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit
5530	82.20	76.80	No limit
5610	82.00	76.40	No limit

5530 MHz

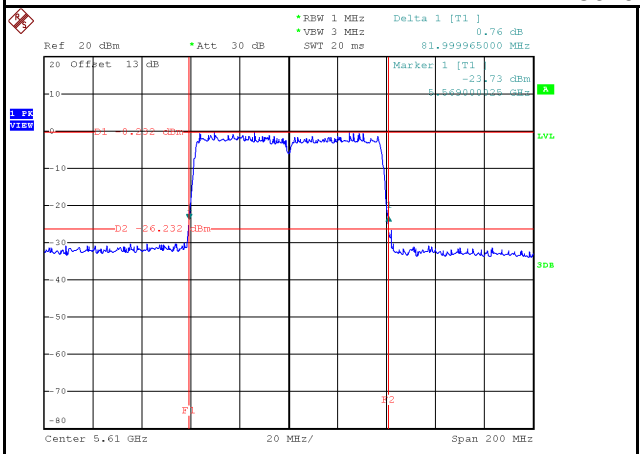


Date: 20.JAN.2022 15:38:32

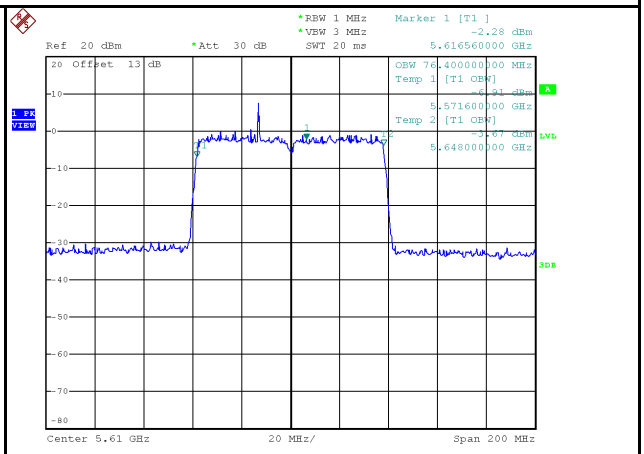


Date: 20.JAN.2022 15:37:45

5610 MHz



Date: 20.JAN.2022 15:49:07



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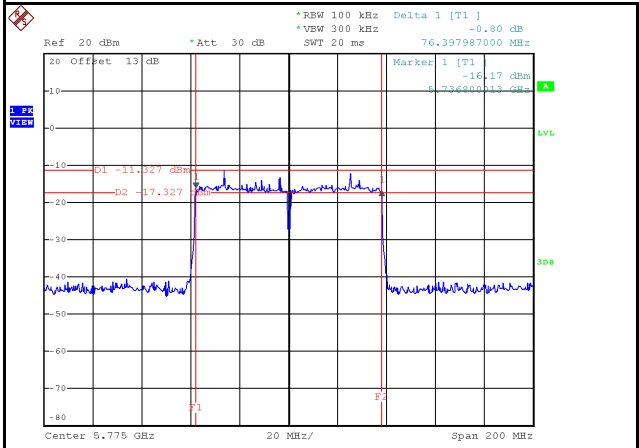
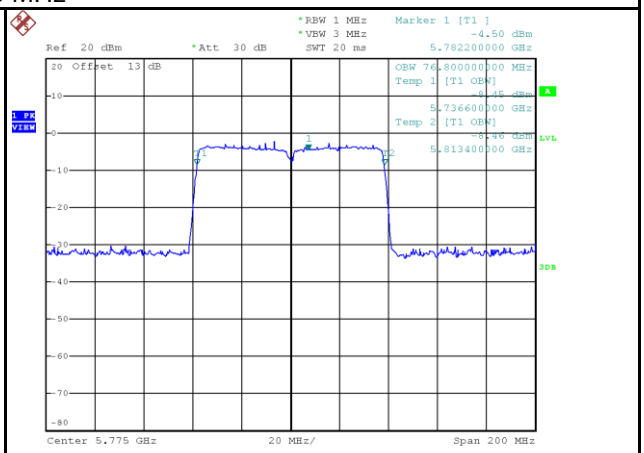
Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
5775	76.40	76.80	500	Pass

5775 MHz





APPENDIX E CONDUCTED OUTPUT POWER

Test Mode	IEEE 802.11a_ Aux Antenna	Tested Date	2022/1/18

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	13.81	0.0240	23.98	0.2500	Pass
5200	13.57	0.0228	23.98	0.2500	Pass
5240	13.92	0.0247	23.98	0.2500	Pass
5260	13.81	0.0240	23.98	0.2500	Pass
5300	14.03	0.0253	23.98	0.2500	Pass
5320	14.01	0.0252	23.98	0.2500	Pass
5500	13.38	0.0218	23.98	0.2500	Pass
5580	13.24	0.0211	23.98	0.2500	Pass
5700	13.57	0.0228	23.98	0.2500	Pass
5745	11.06	0.0128	30.00	1.0000	Pass
5785	10.82	0.0121	30.00	1.0000	Pass
5825	10.85	0.0122	30.00	1.0000	Pass

Test Mode	IEEE 802.11a_Main Antenna	Tested Date	2022/1/18

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	13.13	0.0206	23.98	0.2500	Pass
5200	13.00	0.0200	23.98	0.2500	Pass
5240	13.46	0.0222	23.98	0.2500	Pass
5260	13.45	0.0221	23.98	0.2500	Pass
5300	13.54	0.0226	23.98	0.2500	Pass
5320	13.59	0.0229	23.98	0.2500	Pass
5500	12.72	0.0187	23.98	0.2500	Pass
5580	12.99	0.0199	23.98	0.2500	Pass
5700	13.27	0.0212	23.98	0.2500	Pass
5745	10.57	0.0114	30.00	1.0000	Pass
5785	10.54	0.0113	30.00	1.0000	Pass
5825	10.65	0.0116	30.00	1.0000	Pass

Test Mode	IEEE 802.11a_Total	Tested Date	2022/1/18

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	16.49	0.0446	23.98	0.2500	Pass
5200	16.30	0.0427	23.98	0.2500	Pass
5240	16.71	0.0468	23.98	0.2500	Pass
5260	16.64	0.0462	23.98	0.2500	Pass
5300	16.80	0.0479	23.98	0.2500	Pass
5320	16.82	0.0480	23.98	0.2500	Pass
5500	16.07	0.0405	23.98	0.2500	Pass
5580	16.13	0.0410	23.98	0.2500	Pass
5700	16.43	0.0440	23.98	0.2500	Pass
5745	13.83	0.0242	30.00	1.0000	Pass
5785	13.69	0.0234	30.00	1.0000	Pass
5825	13.76	0.0238	30.00	1.0000	Pass

Test Mode	IEEE 802.11n (HT20)_Aux Antenna	Tested Date	2022/1/18

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	14.14	0.0259	23.98	0.2500	Pass
5200	13.83	0.0242	23.98	0.2500	Pass
5240	14.16	0.0261	23.98	0.2500	Pass
5260	14.08	0.0256	23.98	0.2500	Pass
5300	14.35	0.0272	23.98	0.2500	Pass
5320	14.27	0.0267	23.98	0.2500	Pass
5500	13.64	0.0231	23.98	0.2500	Pass
5580	13.55	0.0226	23.98	0.2500	Pass
5700	13.79	0.0239	23.98	0.2500	Pass
5745	8.98	0.0079	30.00	1.0000	Pass
5785	8.96	0.0079	30.00	1.0000	Pass
5825	8.93	0.0078	30.00	1.0000	Pass

Test Mode	IEEE 802.11n (HT20)_Main Antenna	Tested Date	2022/1/18

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	13.41	0.0219	23.98	0.2500	Pass
5200	13.32	0.0215	23.98	0.2500	Pass
5240	13.78	0.0239	23.98	0.2500	Pass
5260	13.75	0.0237	23.98	0.2500	Pass
5300	13.86	0.0243	23.98	0.2500	Pass
5320	13.83	0.0242	23.98	0.2500	Pass
5500	13.04	0.0201	23.98	0.2500	Pass
5580	13.32	0.0215	23.98	0.2500	Pass
5700	13.59	0.0229	23.98	0.2500	Pass
5745	8.84	0.0077	30.00	1.0000	Pass
5785	8.87	0.0077	30.00	1.0000	Pass
5825	8.79	0.0076	30.00	1.0000	Pass

Test Mode	IEEE 802.11n (HT20)_Total	Tested Date	2022/1/18

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	16.80	0.0479	23.98	0.2500	Pass
5200	16.59	0.0456	23.98	0.2500	Pass
5240	16.98	0.0499	23.98	0.2500	Pass
5260	16.93	0.0493	23.98	0.2500	Pass
5300	17.12	0.0515	23.98	0.2500	Pass
5320	17.07	0.0509	23.98	0.2500	Pass
5500	16.36	0.0433	23.98	0.2500	Pass
5580	16.45	0.0441	23.98	0.2500	Pass
5700	16.70	0.0468	23.98	0.2500	Pass
5745	11.92	0.0156	30.00	1.0000	Pass
5785	11.93	0.0156	30.00	1.0000	Pass
5825	11.87	0.0154	30.00	1.0000	Pass

Test Mode	IEEE 802.11n (HT40)_Aux Antenna	Tested Date	2022/1/18

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	14.11	0.0258	23.98	0.2500	Pass
5230	13.88	0.0244	23.98	0.2500	Pass
5270	14.01	0.0252	23.98	0.2500	Pass
5310	14.29	0.0269	23.98	0.2500	Pass
5510	13.54	0.0226	23.98	0.2500	Pass
5550	13.52	0.0225	23.98	0.2500	Pass
5670	13.82	0.0241	23.98	0.2500	Pass
5755	9.02	0.0080	30.00	1.0000	Pass
5795	10.01	0.0100	30.00	1.0000	Pass

Test Mode	IEEE 802.11n (HT40)_Main Antenna	Tested Date	2022/1/18

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	13.45	0.0221	23.98	0.2500	Pass
5230	13.59	0.0229	23.98	0.2500	Pass
5270	13.65	0.0232	23.98	0.2500	Pass
5310	13.91	0.0246	23.98	0.2500	Pass
5510	13.03	0.0201	23.98	0.2500	Pass
5550	13.35	0.0216	23.98	0.2500	Pass
5670	13.84	0.0242	23.98	0.2500	Pass
5755	8.60	0.0072	30.00	1.0000	Pass
5795	9.57	0.0091	30.00	1.0000	Pass

Test Mode	IEEE 802.11n (HT40)_Total	Tested Date	2022/1/18

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	16.80	0.0479	23.98	0.2500	Pass
5230	16.75	0.0473	23.98	0.2500	Pass
5270	16.84	0.0484	23.98	0.2500	Pass
5310	17.11	0.0515	23.98	0.2500	Pass
5510	16.30	0.0427	23.98	0.2500	Pass
5550	16.45	0.0441	23.98	0.2500	Pass
5670	16.84	0.0483	23.98	0.2500	Pass
5755	11.83	0.0152	30.00	1.0000	Pass
5795	12.81	0.0191	30.00	1.0000	Pass

Test Mode	IEEE 802.11ac (VHT20)_Aux Antenna	Tested Date	2022/1/18

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	13.98	0.0250	23.98	0.2500	Pass
5200	13.69	0.0234	23.98	0.2500	Pass
5240	13.98	0.0250	23.98	0.2500	Pass
5260	13.95	0.0248	23.98	0.2500	Pass
5300	14.22	0.0264	23.98	0.2500	Pass
5320	14.09	0.0256	23.98	0.2500	Pass
5500	13.50	0.0224	23.98	0.2500	Pass
5580	13.33	0.0215	23.98	0.2500	Pass
5700	13.66	0.0232	23.98	0.2500	Pass
5745	8.89	0.0077	30.00	1.0000	Pass
5785	8.85	0.0077	30.00	1.0000	Pass
5825	8.82	0.0076	30.00	1.0000	Pass

Test Mode	IEEE 802.11ac (VHT20)_Main Antenna	Tested Date	2022/1/18

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	13.23	0.0210	23.98	0.2500	Pass
5200	13.13	0.0206	23.98	0.2500	Pass
5240	13.67	0.0233	23.98	0.2500	Pass
5260	13.56	0.0227	23.98	0.2500	Pass
5300	13.69	0.0234	23.98	0.2500	Pass
5320	13.64	0.0231	23.98	0.2500	Pass
5500	12.93	0.0196	23.98	0.2500	Pass
5580	13.21	0.0209	23.98	0.2500	Pass
5700	13.39	0.0218	23.98	0.2500	Pass
5745	8.75	0.0075	30.00	1.0000	Pass
5785	8.79	0.0076	30.00	1.0000	Pass
5825	8.71	0.0074	30.00	1.0000	Pass

Test Mode	IEEE 802.11ac (VHT20)_Total	Tested Date	2022/1/18

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	16.63	0.0460	23.98	0.2500	Pass
5200	16.43	0.0439	23.98	0.2500	Pass
5240	16.84	0.0483	23.98	0.2500	Pass
5260	16.77	0.0475	23.98	0.2500	Pass
5300	16.97	0.0498	23.98	0.2500	Pass
5320	16.88	0.0488	23.98	0.2500	Pass
5500	16.23	0.0420	23.98	0.2500	Pass
5580	16.28	0.0425	23.98	0.2500	Pass
5700	16.54	0.0451	23.98	0.2500	Pass
5745	11.83	0.0152	30.00	1.0000	Pass
5785	11.83	0.0152	30.00	1.0000	Pass
5825	11.78	0.0151	30.00	1.0000	Pass

Test Mode	IEEE 802.11ac (VHT40)_Aux Antenna	Tested Date	2022/1/18

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	13.98	0.0250	23.98	0.2500	Pass
5230	13.70	0.0234	23.98	0.2500	Pass
5270	13.87	0.0244	23.98	0.2500	Pass
5310	14.08	0.0256	23.98	0.2500	Pass
5510	13.34	0.0216	23.98	0.2500	Pass
5550	13.33	0.0215	23.98	0.2500	Pass
5670	13.68	0.0233	23.98	0.2500	Pass
5755	8.95	0.0079	30.00	1.0000	Pass
5795	9.92	0.0098	30.00	1.0000	Pass

Test Mode	IEEE 802.11ac (VHT40)_Main Antenna	Tested Date	2022/1/18

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	13.29	0.0213	23.98	0.2500	Pass
5230	13.39	0.0218	23.98	0.2500	Pass
5270	13.43	0.0220	23.98	0.2500	Pass
5310	13.78	0.0239	23.98	0.2500	Pass
5510	12.89	0.0195	23.98	0.2500	Pass
5550	13.23	0.0210	23.98	0.2500	Pass
5670	13.70	0.0234	23.98	0.2500	Pass
5755	8.51	0.0071	30.00	1.0000	Pass
5795	9.48	0.0089	30.00	1.0000	Pass

Test Mode	IEEE 802.11ac (VHT40)_Total	Tested Date	2022/1/18

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	16.66	0.0463	23.98	0.2500	Pass
5230	16.56	0.0453	23.98	0.2500	Pass
5270	16.67	0.0464	23.98	0.2500	Pass
5310	16.94	0.0495	23.98	0.2500	Pass
5510	16.13	0.0410	23.98	0.2500	Pass
5550	16.29	0.0426	23.98	0.2500	Pass
5670	16.70	0.0468	23.98	0.2500	Pass
5755	11.75	0.0149	30.00	1.0000	Pass
5795	12.72	0.0187	30.00	1.0000	Pass

Test Mode	IEEE 802.11ac (VHT80)_Aux Antenna	Tested Date	2022/1/18

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5210	10.48	0.0112	23.98	0.2500	Pass
5290	12.43	0.0175	23.98	0.2500	Pass
5530	10.64	0.0116	23.98	0.2500	Pass
5610	11.64	0.0146	23.98	0.2500	Pass
5775	6.48	0.0044	30.00	1.0000	Pass

Test Mode	IEEE 802.11ac (VHT80)_Main Antenna	Tested Date	2022/1/18

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5210	9.72	0.0094	23.98	0.2500	Pass
5290	12.10	0.0162	23.98	0.2500	Pass
5530	10.07	0.0102	23.98	0.2500	Pass
5610	11.57	0.0144	23.98	0.2500	Pass
5775	6.22	0.0042	30.00	1.0000	Pass

Test Mode	IEEE 802.11ac (VHT80)_Total	Tested Date	2022/1/18

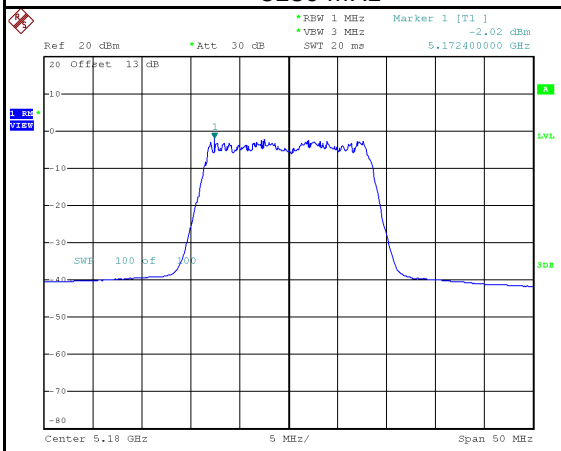
Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5210	13.13	0.0205	23.98	0.2500	Pass
5290	15.28	0.0337	23.98	0.2500	Pass
5530	13.37	0.0218	23.98	0.2500	Pass
5610	14.62	0.0289	23.98	0.2500	Pass
5775	9.36	0.0086	30.00	1.0000	Pass

APPENDIX F POWER SPECTRAL DENSITY

Test Mode	IEEE 802.11a_Aux Antenna

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5180	-2.02	0.55	-1.47	8.98	Pass
5200	-2.81	0.55	-2.26	8.98	Pass
5240	-3.26	0.55	-2.71	8.98	Pass

5180 MHz



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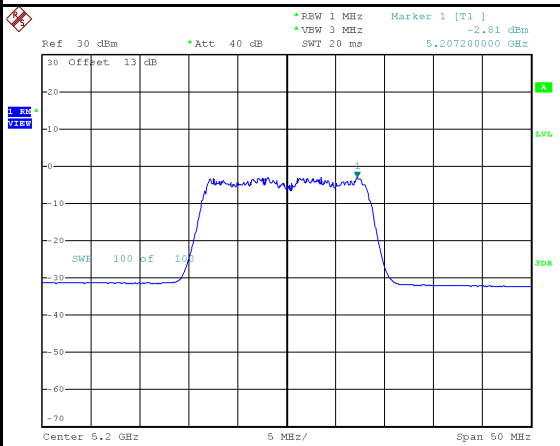
5200 MHz



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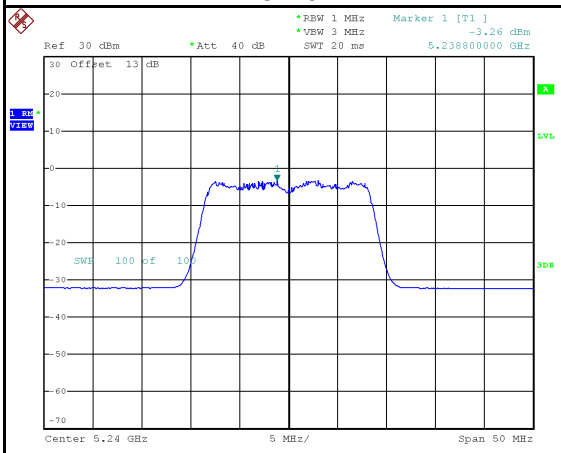
5240 MHz



Date: 20.JAN.2022 16:15:35

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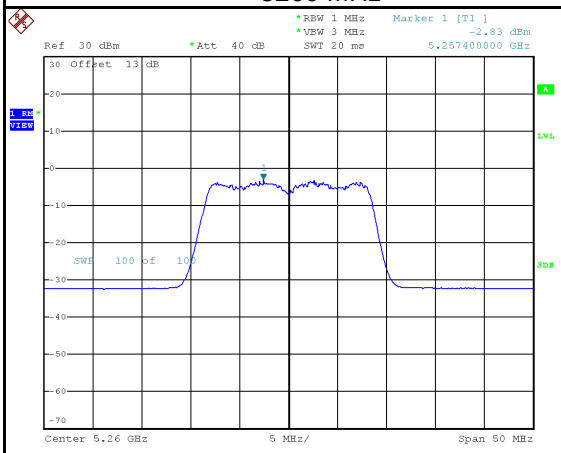
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5260	-2.83	0.55	-2.28	8.98	Pass
5300	-2.56	0.55	-2.01	8.98	Pass
5320	-5.02	0.55	-4.47	8.98	Pass

5260 MHz



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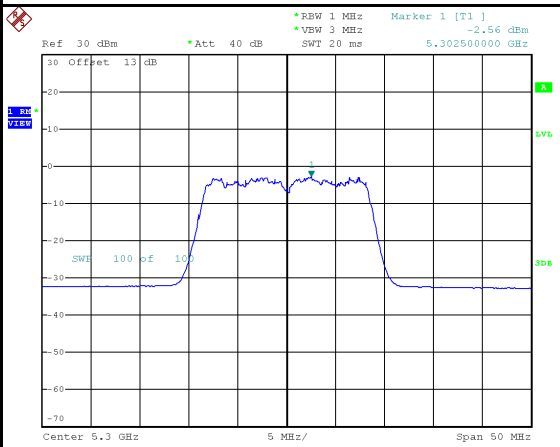
5300 MHz



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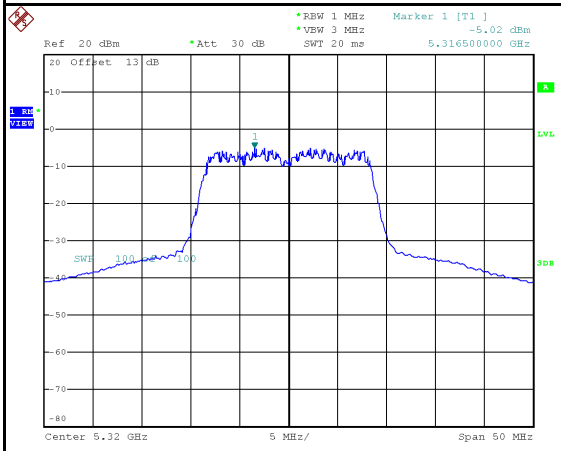
5320 MHz



Date: 25.MAR.2022 12:16:48

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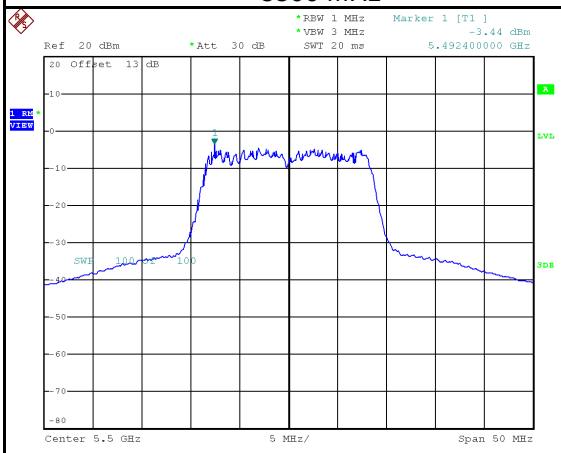
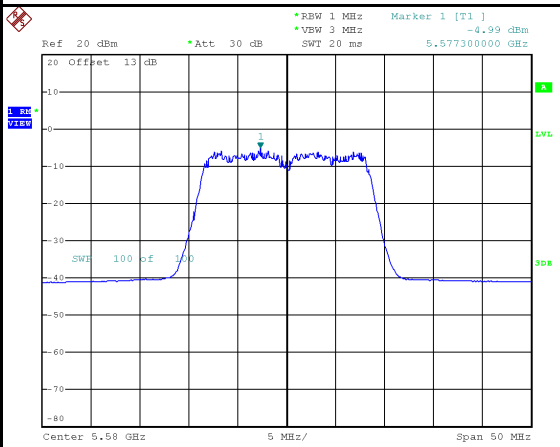
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5500	-3.44	0.55	-3.44	8.98	Pass
5580	-4.99	0.55	-4.99	8.98	Pass
5700	-4.49	0.55	-4.49	8.98	Pass

5500 MHz



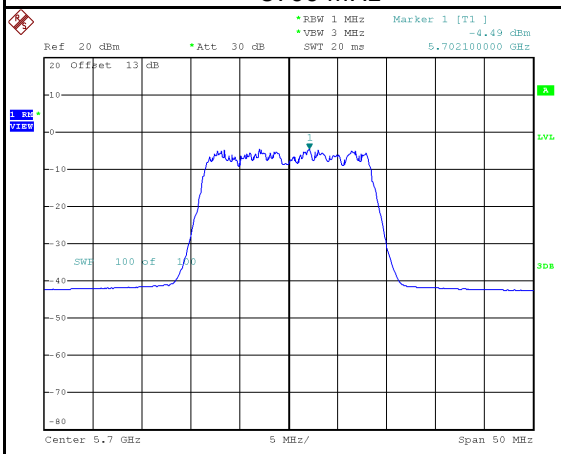
Date: 25.MAR.2022 14:23:23

5580 MHz



Date: 20.JAN.2022 10:36:30

5700 MHz



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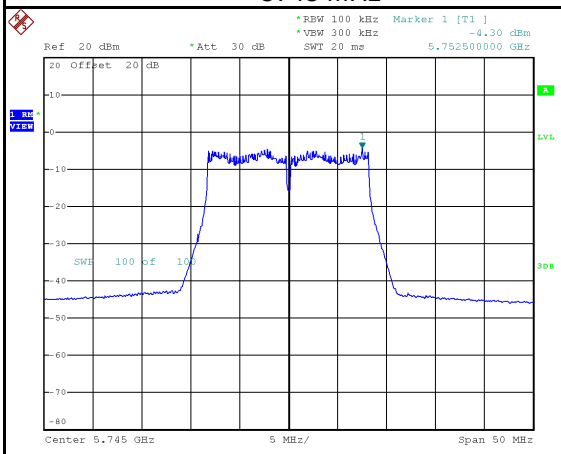
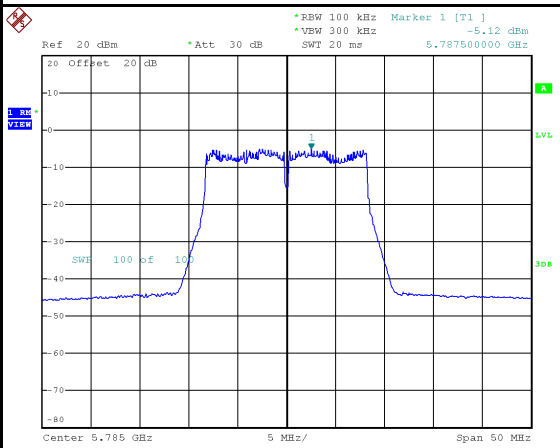
Test Frequency (MHz)	Power Density (dBm/100 kHz)	Power Density (dBm/500 kHz)	Duty Factor (dB)	Calculated Power Density (dBm/500 kHz)	Maximum Limit (dBm/500 kHz)	Result
5745	-4.30	2.69	0.55	3.24	27.98	Pass
5785	-5.12	1.87	0.55	2.42	27.98	Pass
5825	-4.51	2.48	0.55	3.03	27.98	Pass
NOTE: $PSD_{dBm/500\ kHz} = PSD_{dBm/100KHz} + 10 \times \log10(500\ KHz / 100\ kHz)$						

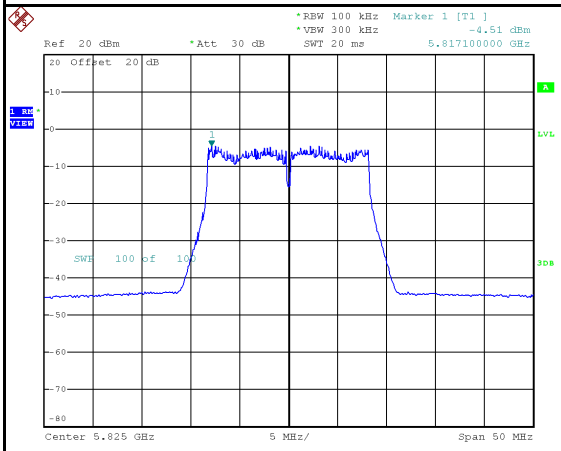
5745 MHz



5785 MHz



5825 MHz



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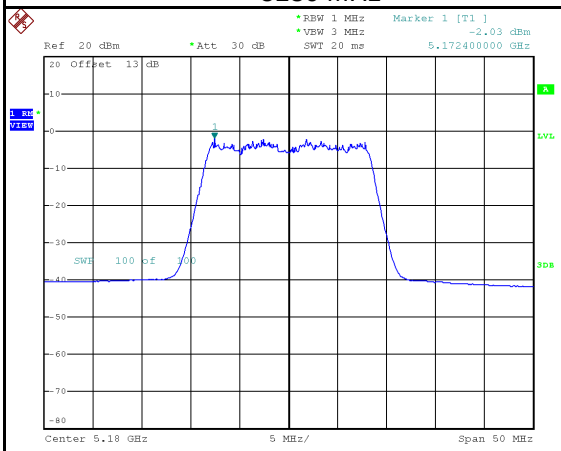
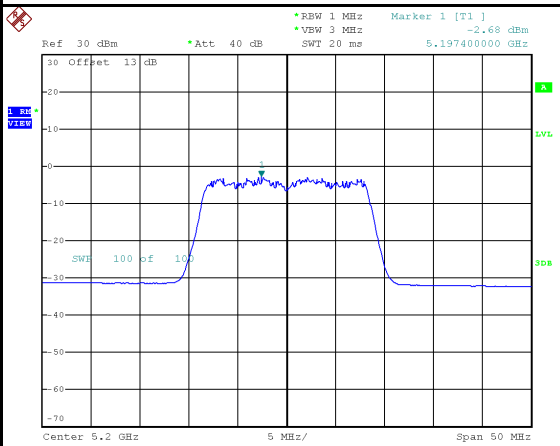
Test Mode	IEEE 802.11a_Main Antenna

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5180	-2.03	0.55	-1.48	8.98	Pass
5200	-2.68	0.55	-2.13	8.98	Pass
5240	-2.83	0.55	-2.28	8.98	Pass

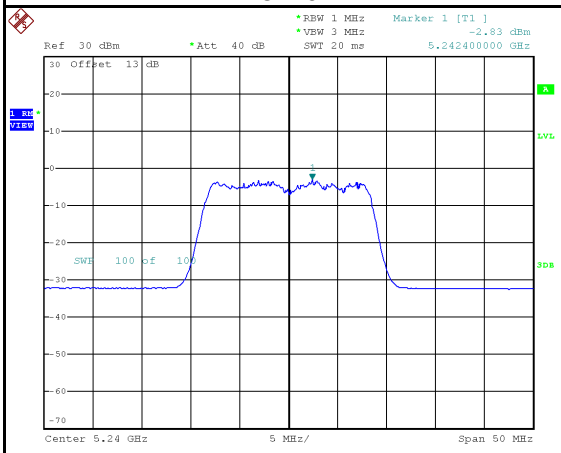
5180 MHz



5200 MHz



5240 MHz



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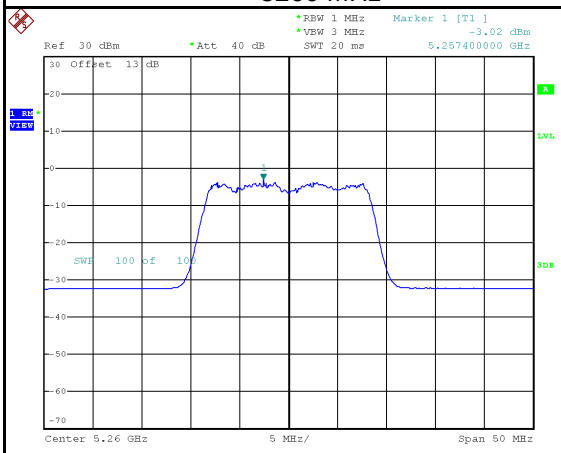
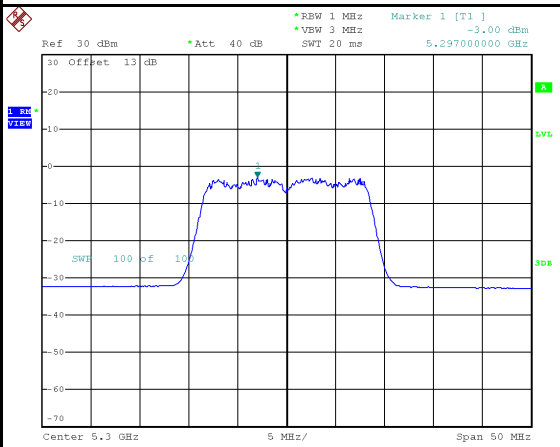
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5260	-3.02	0.55	-2.47	8.98	Pass
5300	-3.00	0.55	-2.45	8.98	Pass
5320	-5.56	0.55	-5.01	8.98	Pass

5260 MHz



Date: 20.JAN.2022 16:18:56

5300 MHz



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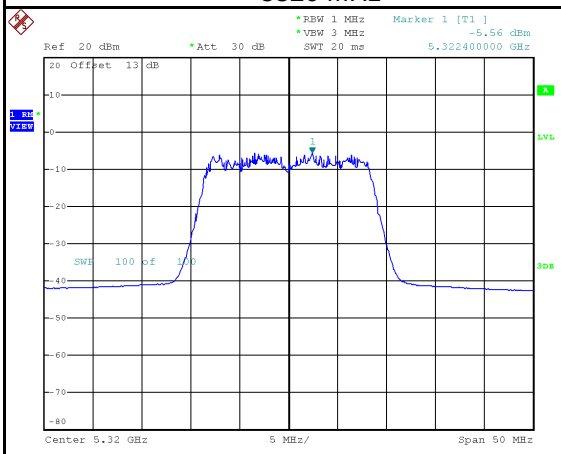
5320 MHz



Date: 25.MAR.2022 12:17:02

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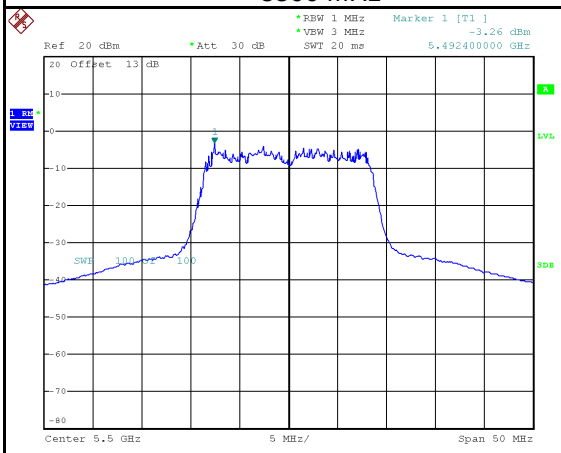
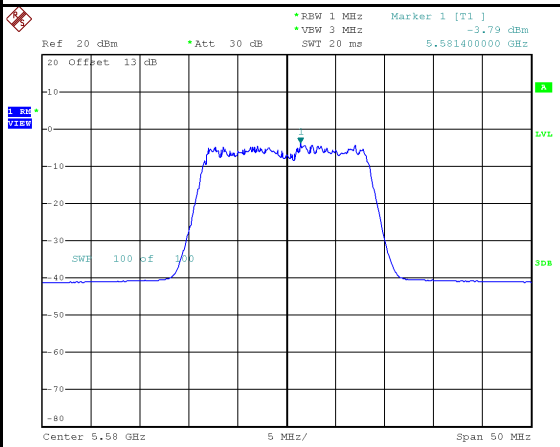
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5500	-3.26	0.55	-2.71	8.98	Pass
5580	-3.79	0.55	-3.24	8.98	Pass
5700	-4.58	0.55	-4.03	8.98	Pass

5500 MHz



Date: 25.MAR.2022 14:23:37

5580 MHz



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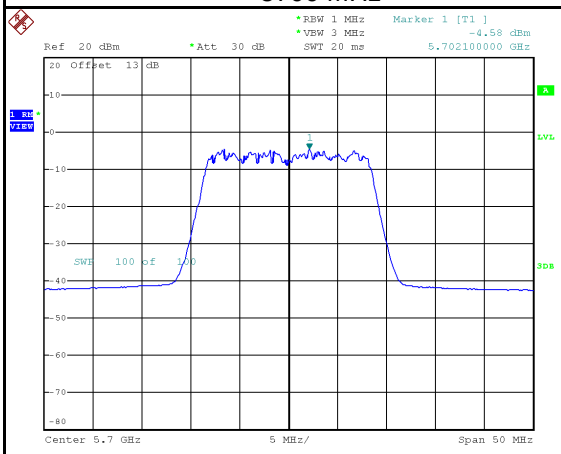
5700 MHz



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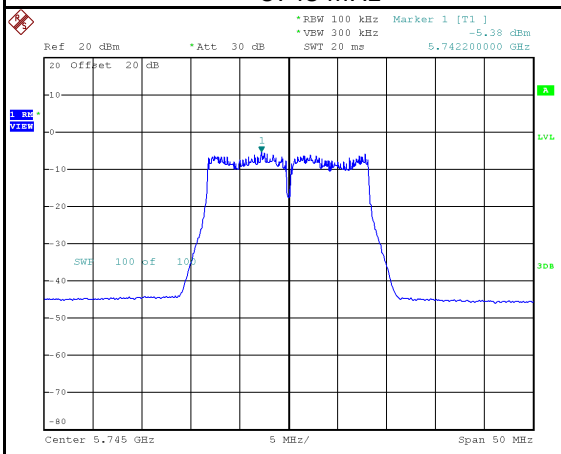
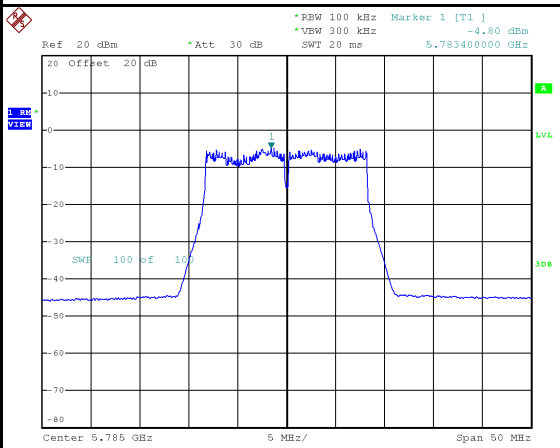
Test Frequency (MHz)	Power Density (dBm/100 kHz)	Power Density (dBm/500 kHz)	Duty Factor (dB)	Calculated Power Density (dBm/500 kHz)	Maximum Limit (dBm/500 kHz)	Result
5745	-5.38	1.61	0.55	2.16	27.98	Pass
5785	-4.80	2.19	0.55	2.74	27.98	Pass
5825	-4.78	2.21	0.55	2.76	27.98	Pass
NOTE: $PSD_{dBm/500\ kHz} = PSD_{dBm/100KHz} + 10 \times \log10(500\ KHz / 100\ kHz)$						

5745 MHz



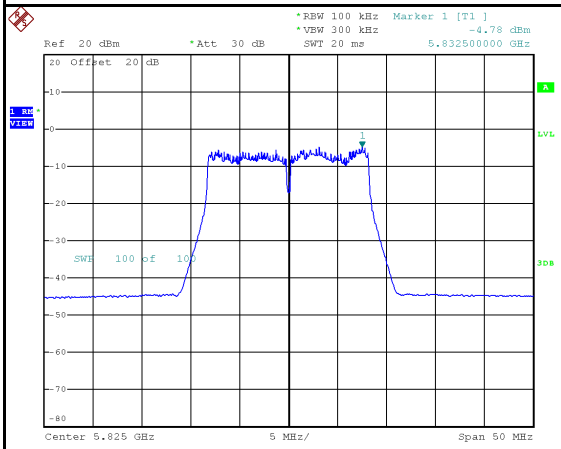
Date: 28.MAR.2022 17:50:24

5785 MHz



Date: 28.MAR.2022 18:34:02

5825 MHz



Date: 28.MAR.2022 18:55:07

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Test Mode	IEEE 802.11a_Total

Test Frequency (MHz)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5180	1.53	8.98	Pass
5200	0.81	8.98	Pass
5240	0.52	8.98	Pass

Test Frequency (MHz)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5260	0.63	8.98	Pass
5300	0.78	8.98	Pass
5320	-1.72	8.98	Pass

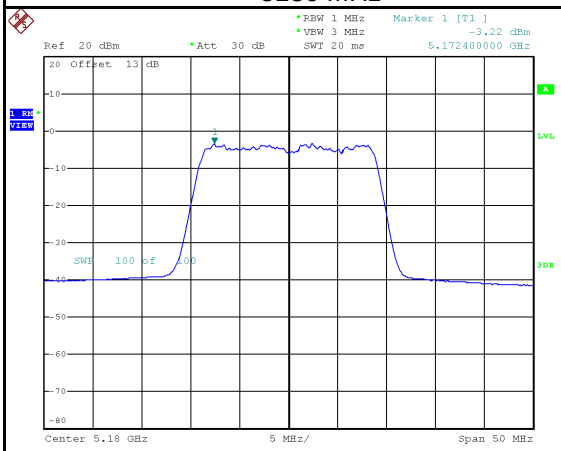
Test Frequency (MHz)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5500	0.21	8.98	Pass
5580	-0.79	8.98	Pass
5700	-0.98	8.98	Pass

Test Frequency (MHz)	Calculated Power Density (dBm/500 kHz)	Maximum Limit (dBm/500 kHz)	Result
5745	5.74	27.98	Pass
5785	5.59	27.98	Pass
5825	5.90	27.98	Pass

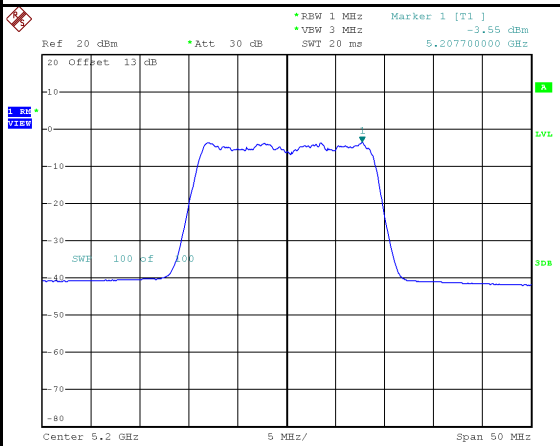
Test Mode	IEEE 802.11n (HT20)_Aux Antenna

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5180	-3.22	0.19	-3.03	8.98	Pass
5200	-3.55	0.19	-3.36	8.98	Pass
5240	-3.60	0.19	-3.41	8.98	Pass

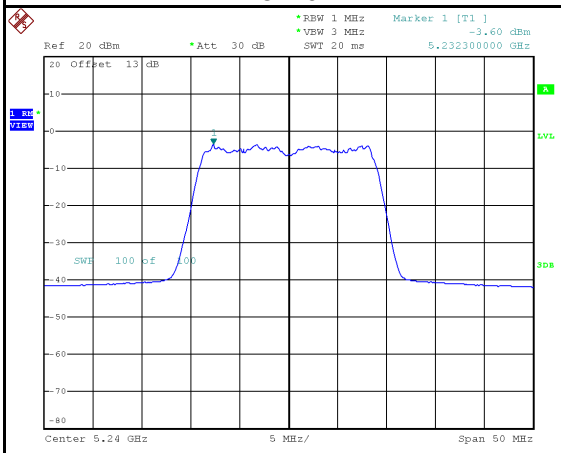
5180 MHz



5200 MHz



5240 MHz



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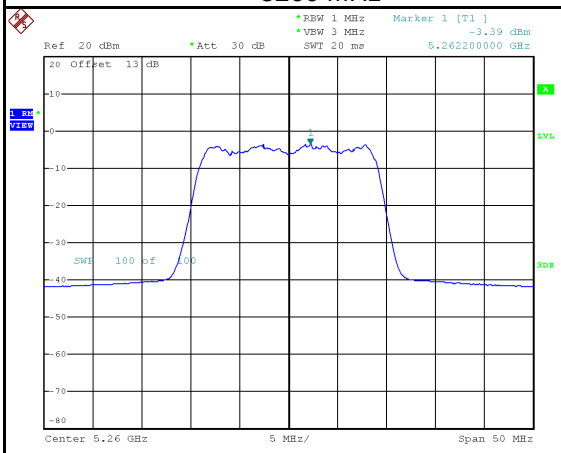
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5260	-3.39	0.19	-3.39	8.98	Pass
5300	-3.60	0.19	-3.60	8.98	Pass
5320	-3.08	0.19	-3.08	8.98	Pass

5260 MHz



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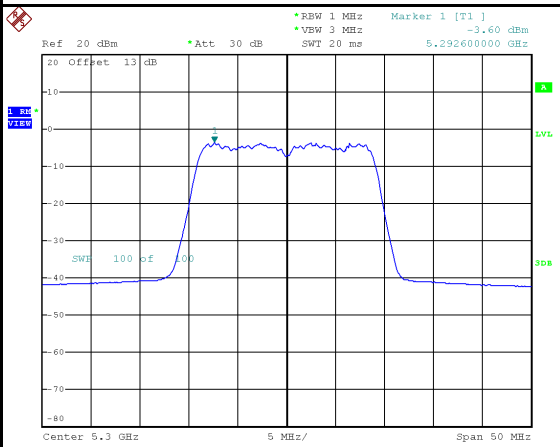
5300 MHz



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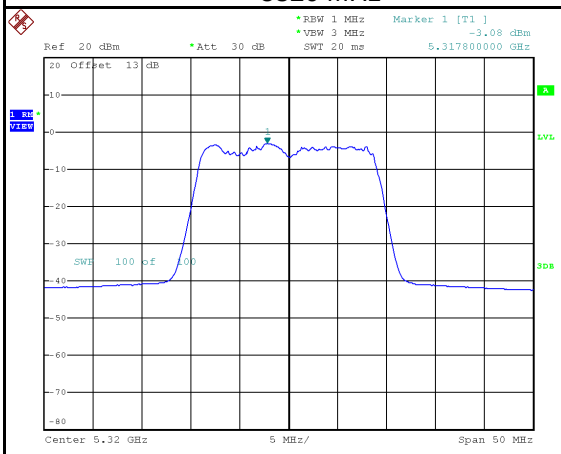
5320 MHz



Date: 20.JAN.2022 11:52:46

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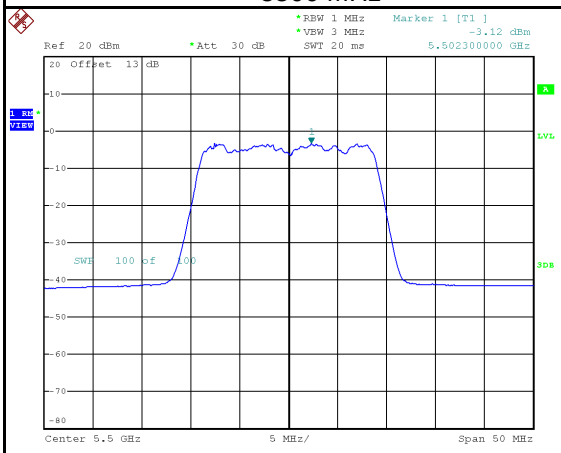
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5500	-3.12	0.19	-3.12	8.98	Pass
5580	-3.02	0.19	-3.02	8.98	Pass
5700	-3.98	0.19	-3.98	8.98	Pass

5500 MHz



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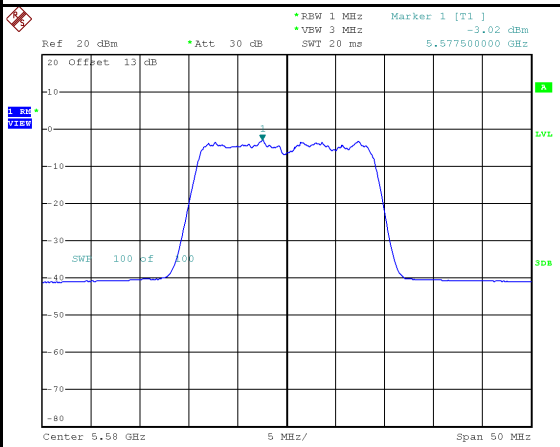
5580 MHz



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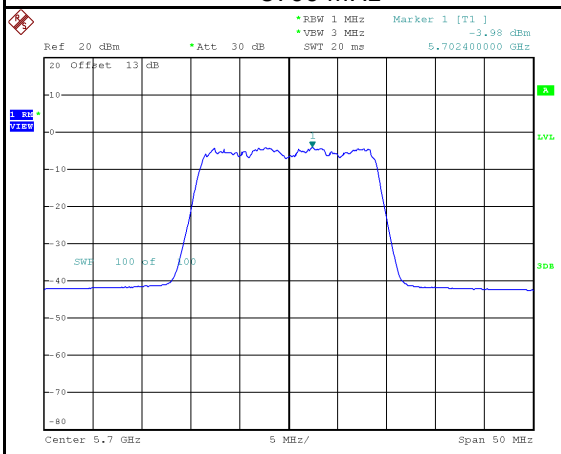
5700 MHz



Date: 20.JAN.2022 12:05:18

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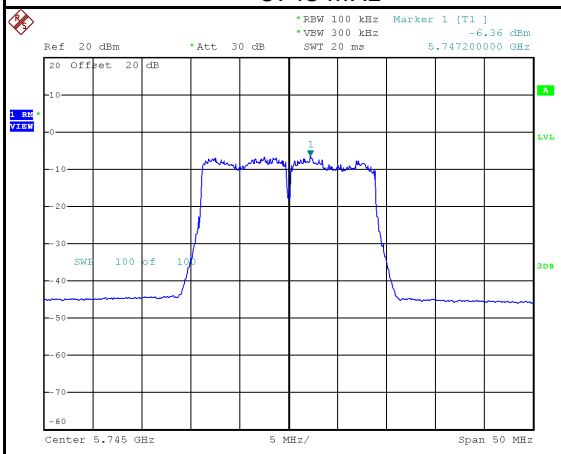
Test Frequency (MHz)	Power Density (dBm/100 kHz)	Power Density (dBm/500 kHz)	Duty Factor (dB)	Calculated Power Density (dBm/500 kHz)	Maximum Limit (dBm/500 kHz)	Result
5745	-6.36	0.63	0.19	0.82	27.98	Pass
5785	-6.74	0.25	0.19	0.44	27.98	Pass
5825	-7.16	-0.17	0.19	0.02	27.98	Pass
NOTE: $PSD_{dBm/500\ kHz} = PSD_{dBm/100KHz} + 10 \times \log10(500\ KHz / 100\ kHz)$						

5745 MHz



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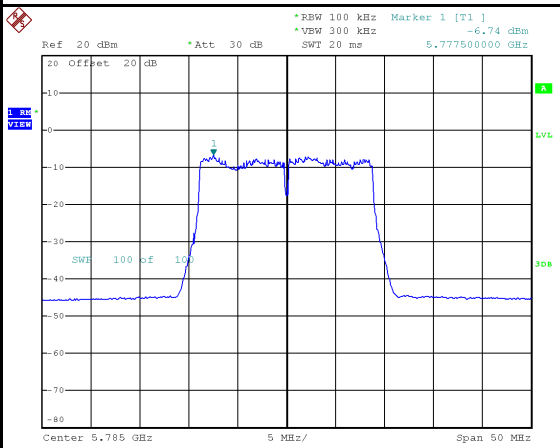
5785 MHz



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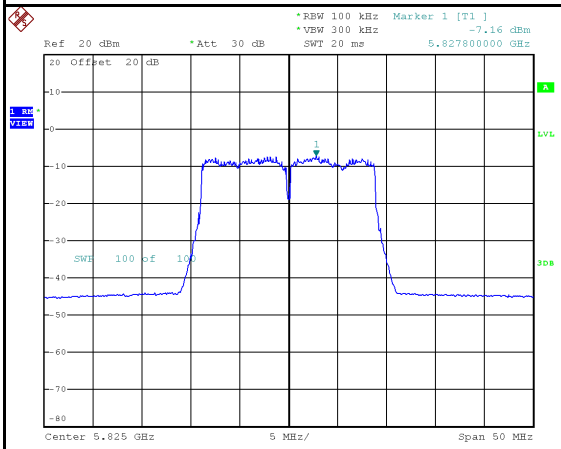
5825 MHz



Date: 29.MAR.2022 12:31:58

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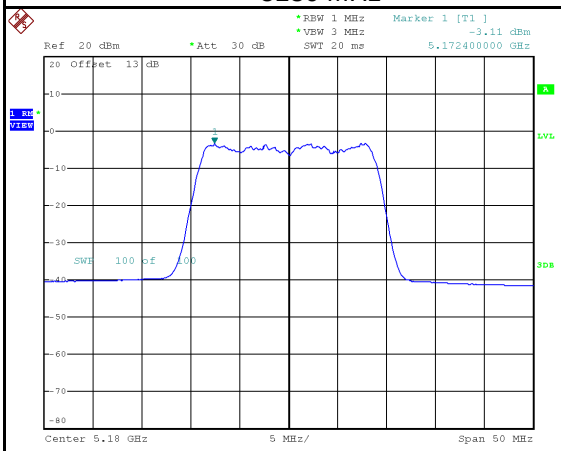
Test Mode	IEEE 802.11n (HT20)_Main Antenna

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5180	-3.11	0.19	-2.92	8.98	Pass
5200	-3.49	0.19	-3.30	8.98	Pass
5240	-3.89	0.19	-3.70	8.98	Pass

5180 MHz



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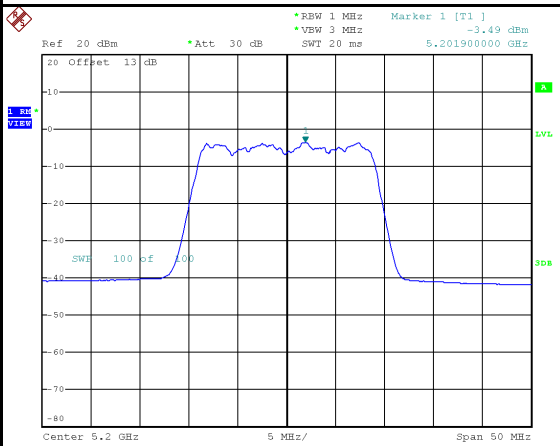
5200 MHz



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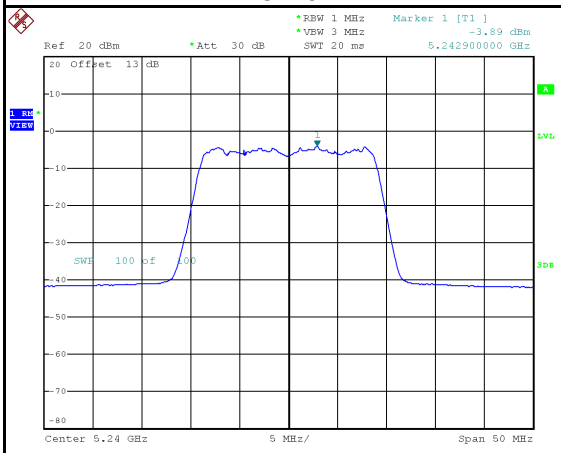
5240 MHz



Date: 20.JAN.2022 11:40:54

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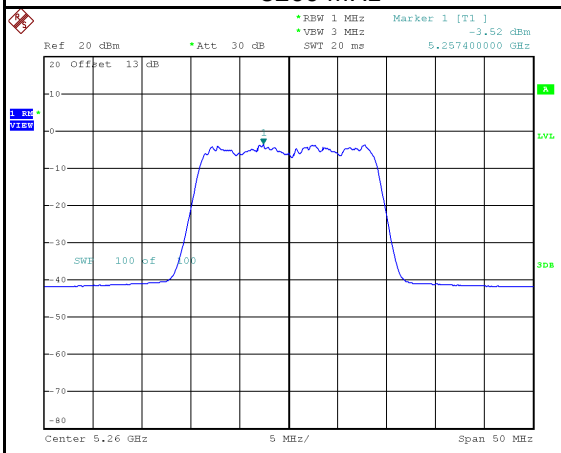
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5260	-3.52	0.19	-3.33	8.98	Pass
5300	-3.96	0.19	-3.77	8.98	Pass
5320	-3.11	0.19	-2.92	8.98	Pass

5260 MHz



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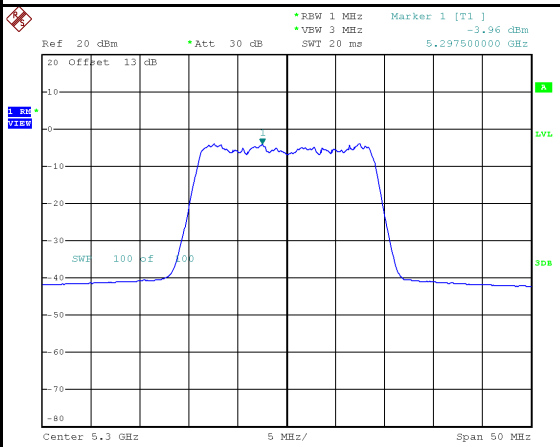
5300 MHz



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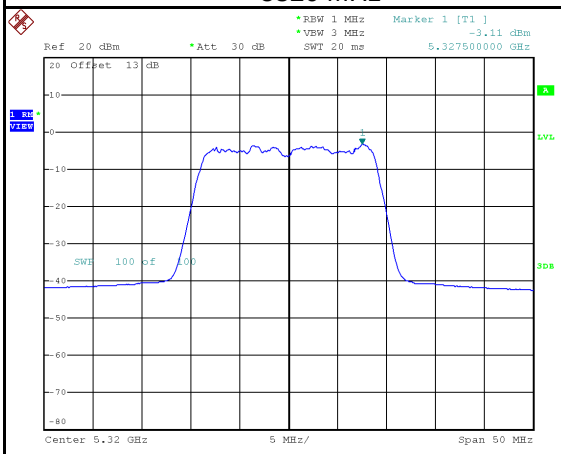
5320 MHz



Date: 20.JAN.2022 11:53:44

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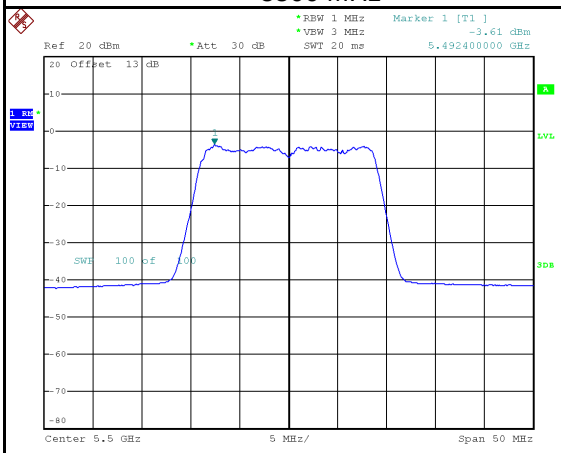
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5500	-3.61	0.19	-3.42	8.98	Pass
5580	-3.36	0.19	-3.17	8.98	Pass
5700	-4.30	0.19	-4.11	8.98	Pass

5500 MHz



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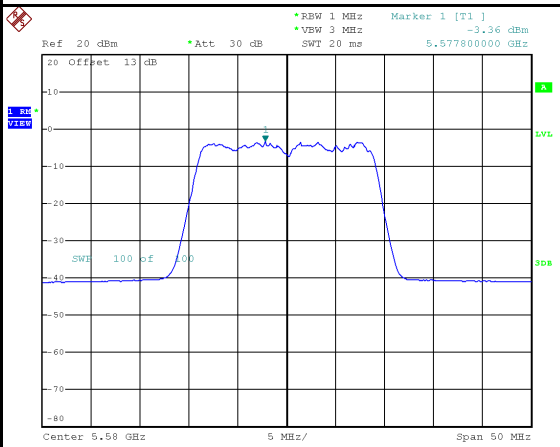
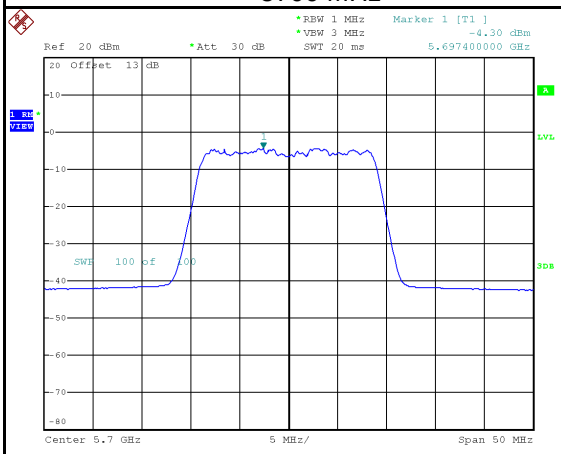
5580 MHz



Date: 20.JAN.2022 12:02:43

5700 MHz



Date: 20.JAN.2022 12:06:13

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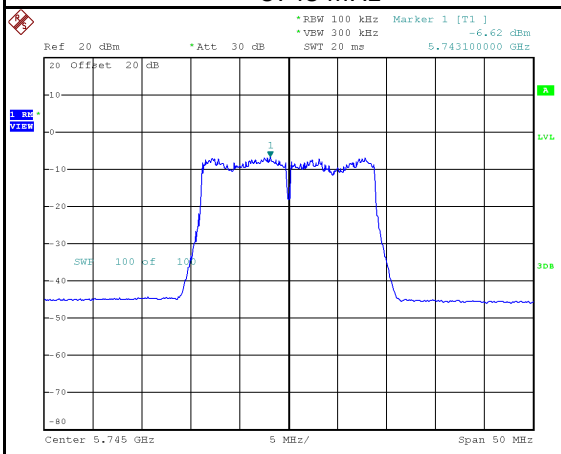
Test Frequency (MHz)	Power Density (dBm/100 kHz)	Power Density (dBm/500 kHz)	Duty Factor (dB)	Calculated Power Density (dBm/500 kHz)	Maximum Limit (dBm/500 kHz)	Result
5745	-6.62	0.37	0.19	0.56	27.98	Pass
5785	-6.99	0.00	0.19	0.19	27.98	Pass
5825	-7.06	-0.07	0.19	0.12	27.98	Pass
NOTE: $PSD_{dBm/500\ kHz} = PSD_{dBm/100KHz} + 10 \times \log10(500\ KHz / 100\ kHz)$						

5745 MHz



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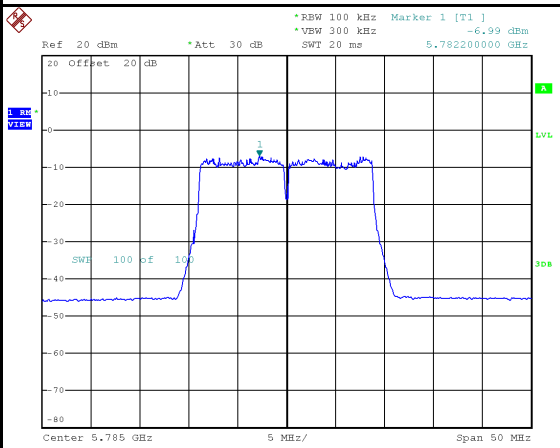
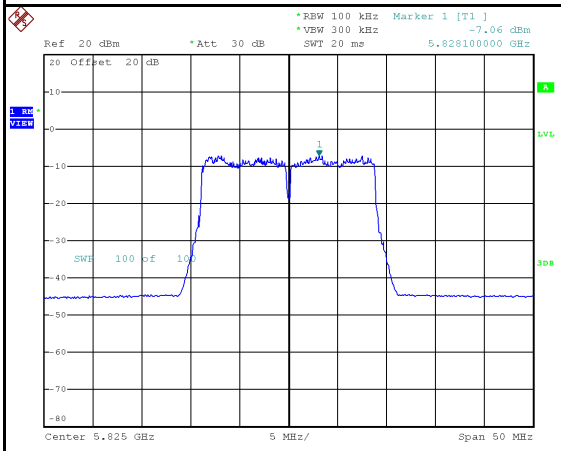
5785 MHz



Date: 29.MAR.2022 12:25:15

5825 MHz



Date: 29.MAR.2022 12:33:16

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Test Mode	IEEE 802.11n (HT20)_Total

Test Frequency (MHz)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5180	0.04	8.98	Pass
5200	-0.32	8.98	Pass
5240	-0.54	8.98	Pass

Test Frequency (MHz)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5260	-0.25	8.98	Pass
5300	-0.58	8.98	Pass
5320	0.11	8.98	Pass

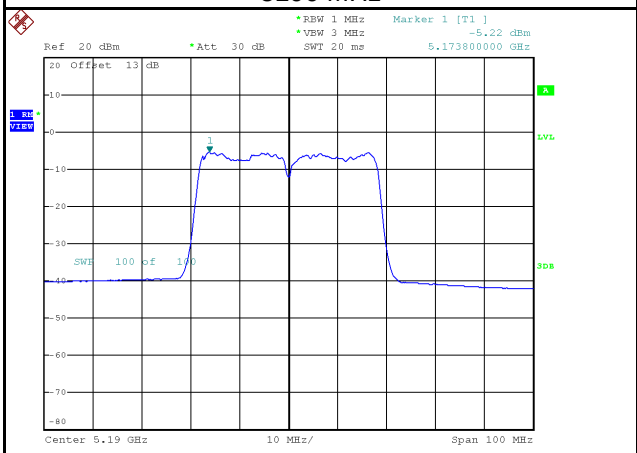
Test Frequency (MHz)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5500	-0.16	8.98	Pass
5580	0.01	8.98	Pass
5700	-0.94	8.98	Pass

Test Frequency (MHz)	Calculated Power Density (dBm/500 kHz)	Maximum Limit (dBm/500 kHz)	Result
5745	3.70	27.98	Pass
5785	3.33	27.98	Pass
5825	3.08	27.98	Pass

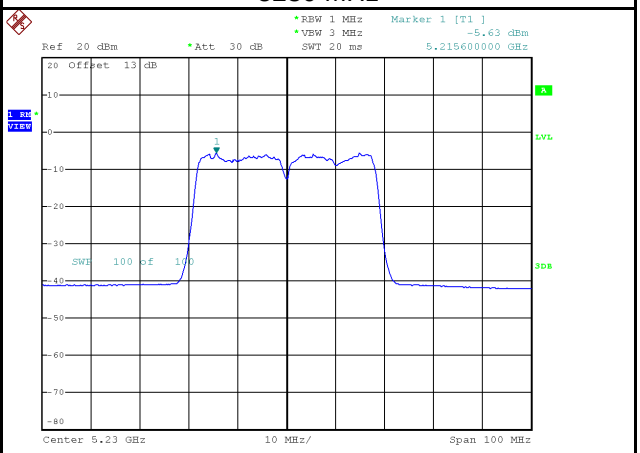
Test Mode	IEEE 802.11n (HT40)_Aux Antenna

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5190	-5.22	0.34	-4.88	8.98	Pass
5230	-5.63	0.34	-5.29	8.98	Pass

5190 MHz

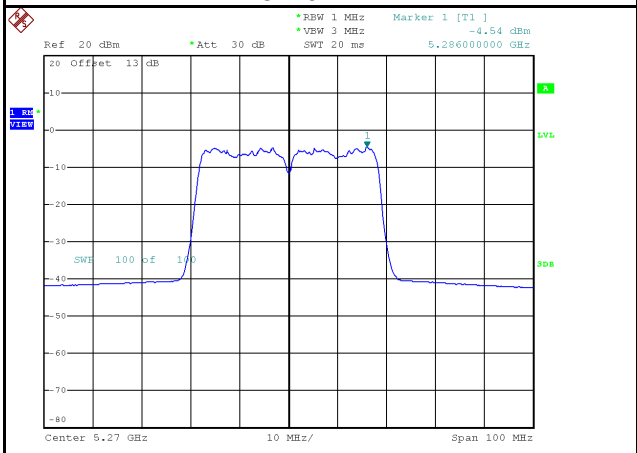


5230 MHz

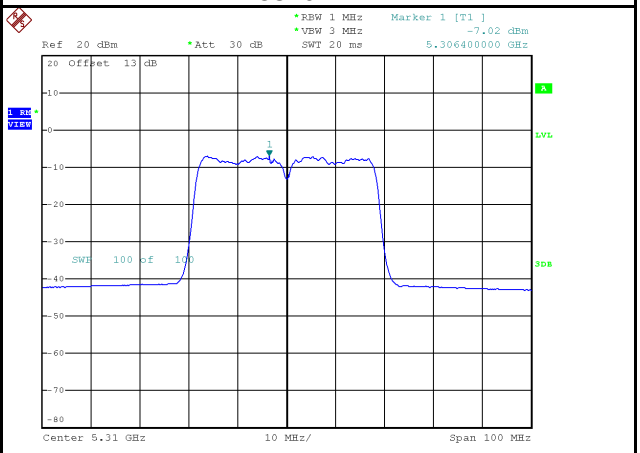


Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5270	-4.54	0.34	-4.20	8.98	Pass
5310	-7.02	0.34	-6.68	8.98	Pass

5270 MHz

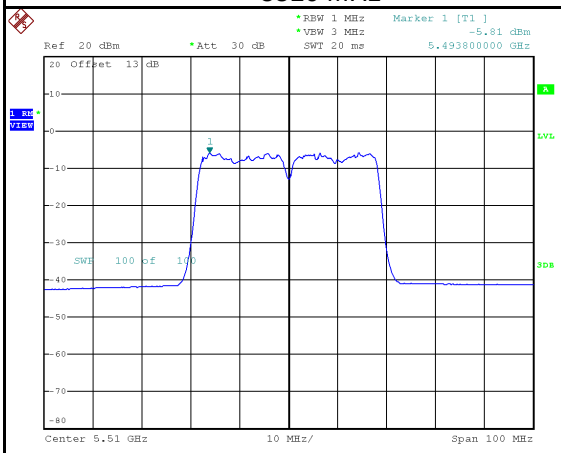


5310 MHz



Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5510	-5.81	0.34	-5.47	8.98	Pass
5550	-4.44	0.34	-4.10	8.98	Pass
5670	-5.01	0.34	-4.67	8.98	Pass

5510 MHz



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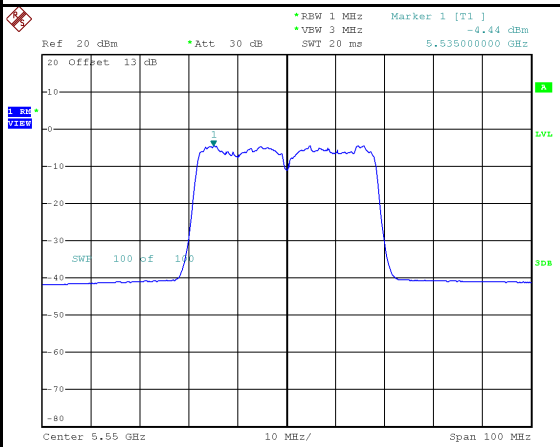
5550 MHz



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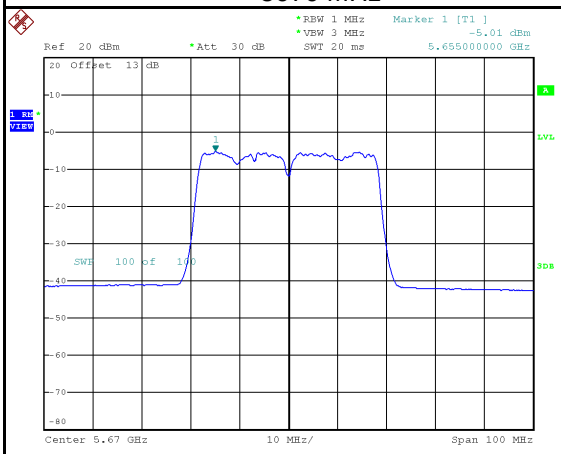
5670 MHz



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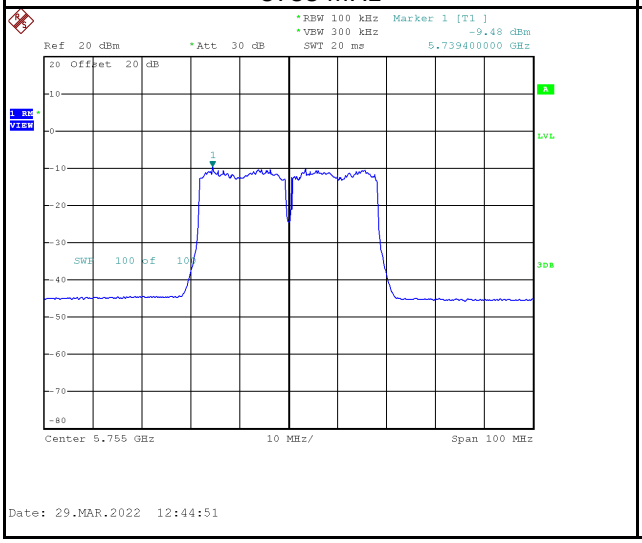
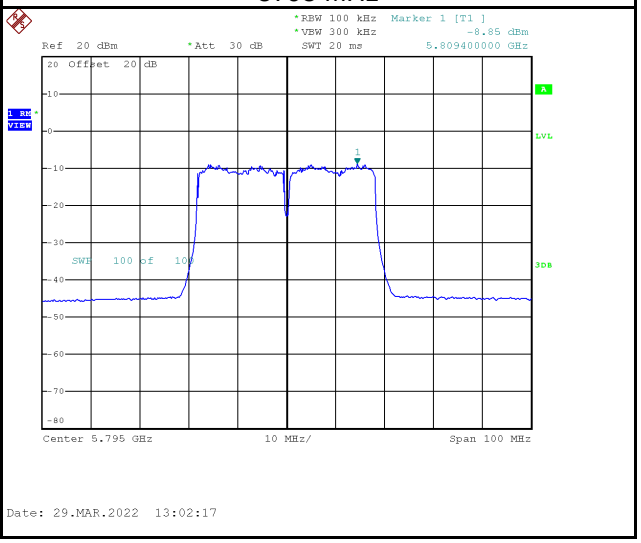
Test Frequency (MHz)	Power Density (dBm/100 kHz)	Power Density (dBm/500 kHz)	Duty Factor (dB)	Calculated Power Density (dBm/500 kHz)	Maximum Limit (dBm/500 kHz)	Result
5755	-9.48	-2.49	0.34	-2.15	27.98	Pass
5795	-8.85	-1.86	0.34	-1.52	27.98	Pass
NOTE: $PSD_{dBm/500\ kHz} = PSD_{dBm/100KHz} + 10 \times \log10(500\ KHz / 100\ kHz)$						

5755 MHz



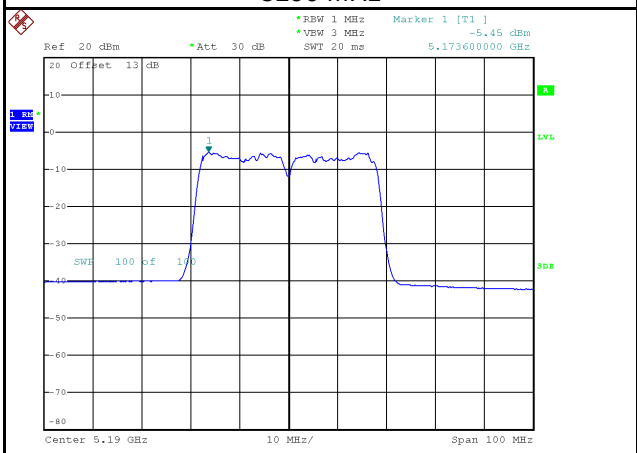
5795 MHz



Test Mode	IEEE 802.11n (HT40)_Main Antenna

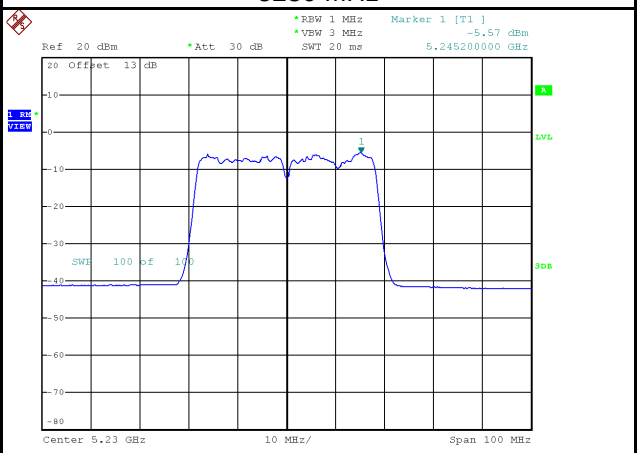
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5190	-5.45	0.34	-5.11	8.98	Pass
5230	-5.57	0.34	-5.23	8.98	Pass

5190 MHz



Date: 20.JAN.2022 13:57:31

5230 MHz



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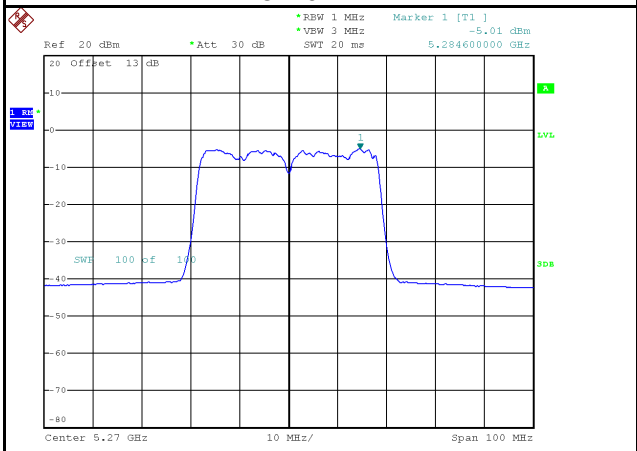
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5270	-5.01	0.34	-4.67	8.98	Pass
5310	-7.05	0.34	-6.71	8.98	Pass

5270 MHz



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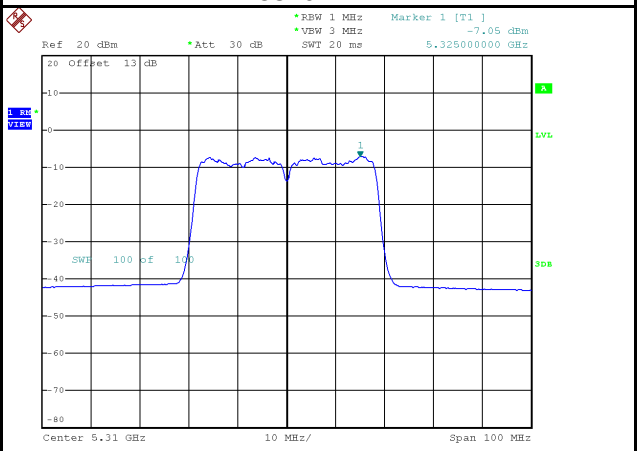
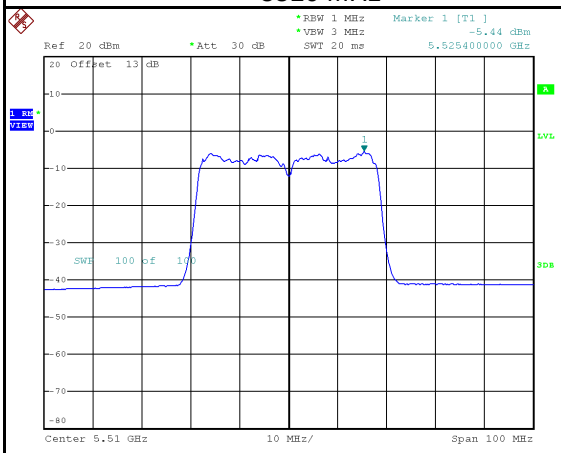
5310 MHz



Date: 20.JAN.2022 14:08:31

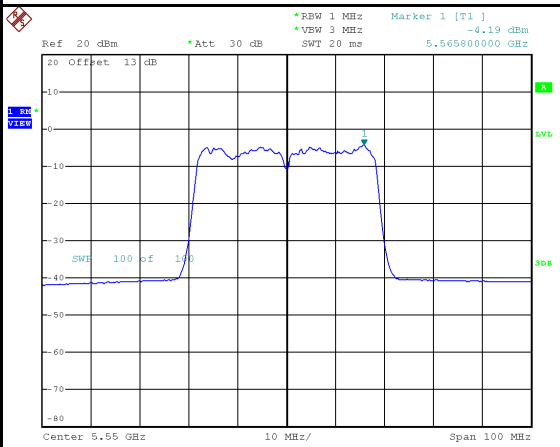
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5510	-5.44	0.34	-5.10	8.98	Pass
5550	-4.19	0.34	-3.85	8.98	Pass
5670	-4.76	0.34	-4.42	8.98	Pass

5510 MHz



Date: 20.JAN.2022 14:15:53

5550 MHz



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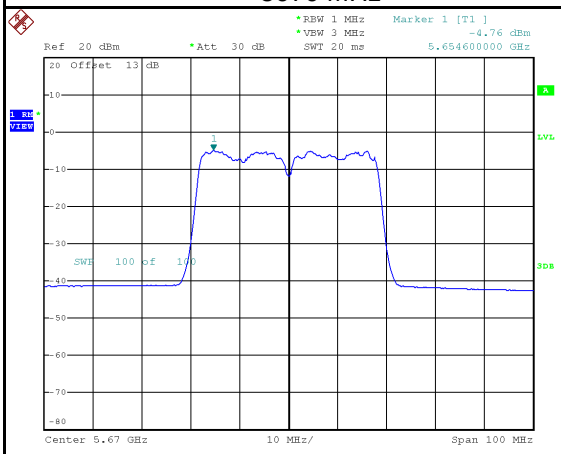
5670 MHz



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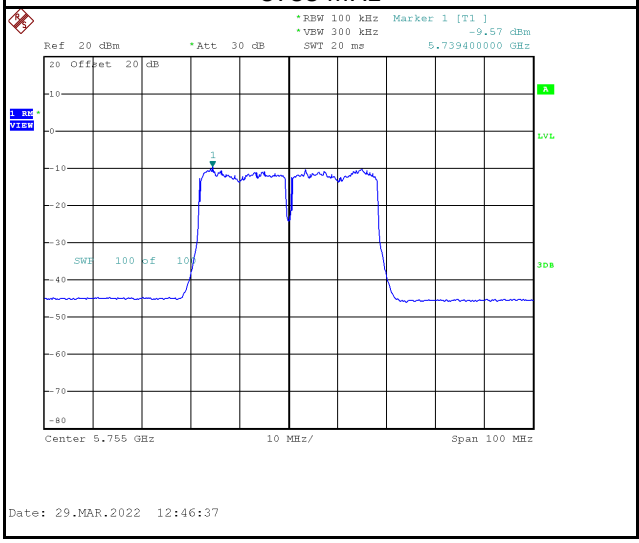
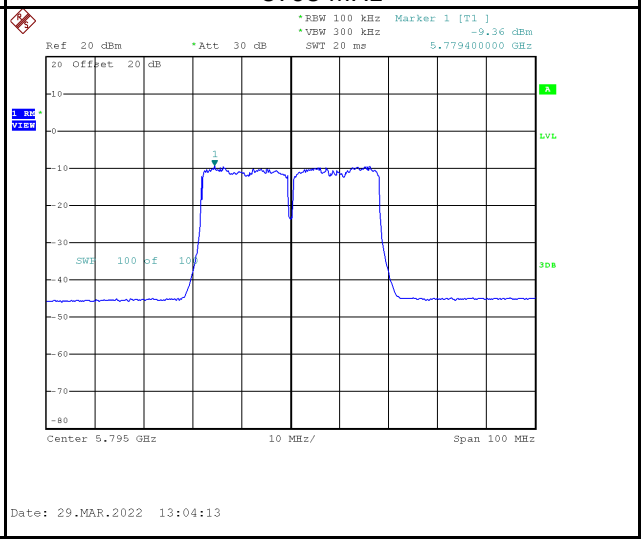
Test Frequency (MHz)	Power Density (dBm/100 kHz)	Power Density (dBm/500 kHz)	Duty Factor (dB)	Calculated Power Density (dBm/500 kHz)	Maximum Limit (dBm/500 kHz)	Result
5755	-9.57	-2.58	0.34	-2.24	27.98	Pass
5795	-9.36	-2.37	0.34	-2.03	27.98	Pass
NOTE: $PSD_{dBm/500\ kHz} = PSD_{dBm/100KHz} + 10 \times \log10(500\ KHz / 100\ kHz)$						

5755 MHz



5795 MHz



Test Mode	IEEE 802.11n (HT40)_Total

Test Frequency (MHz)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5190	-1.98	8.98	Pass
5230	-2.25	8.98	Pass

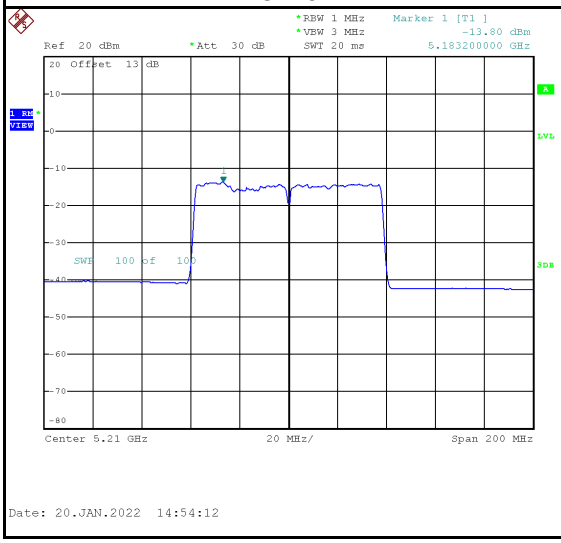
Test Frequency (MHz)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5270	-1.42	8.98	Pass
5310	-3.69	8.98	Pass

Test Frequency (MHz)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5510	-2.27	8.98	Pass
5550	-0.96	8.98	Pass
5670	-1.53	8.98	Pass

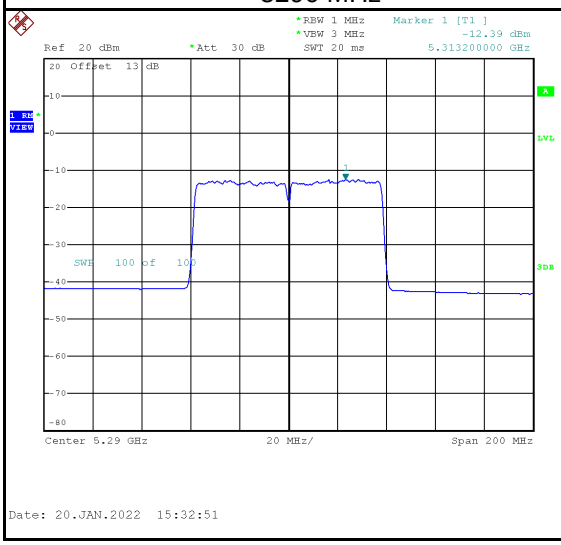
Test Frequency (MHz)	Calculated Power Density (dBm/500 kHz)	Maximum Limit (dBm/500 kHz)	Result
5755	0.81	27.98	Pass
5795	1.24	27.98	Pass

Test Mode	IEEE 802.11ac (VHT80)_Aux Antenna

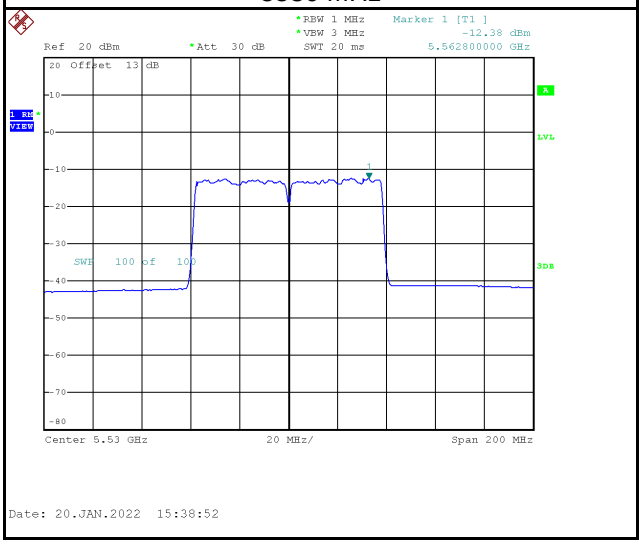
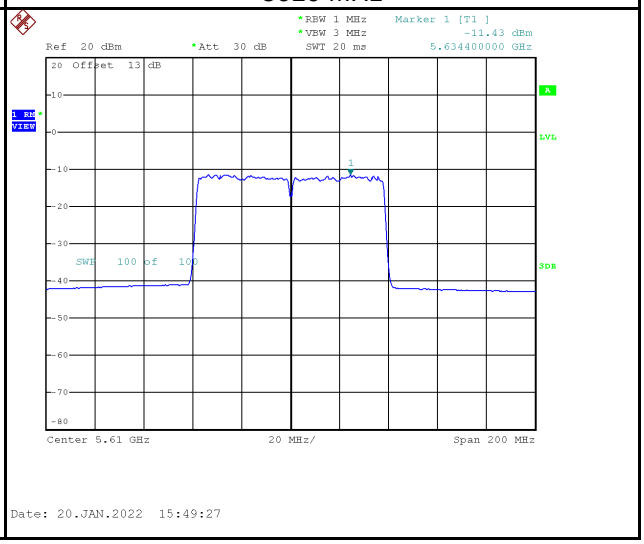
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5210	-13.80	0.17	-13.63	8.98	Pass

5210 MHz	-
	-

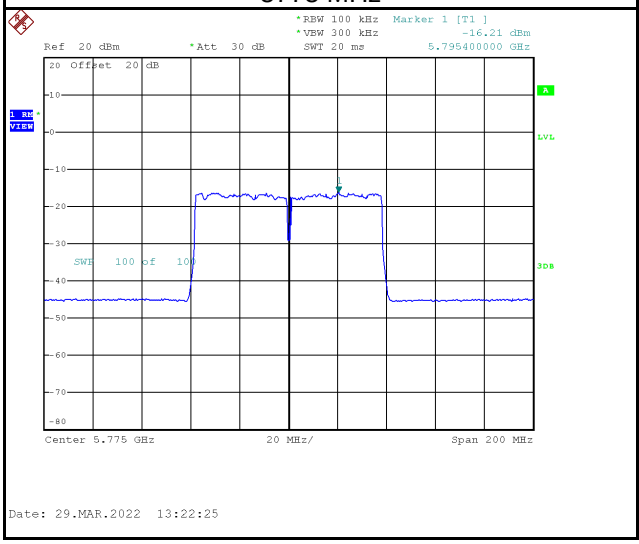
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5290	-12.39	0.17	-12.22	8.98	Pass

5290 MHz	-
	-

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5530	-12.38	0.17	-12.21	8.98	Pass
5610	-11.43	0.17	-11.26	8.98	Pass

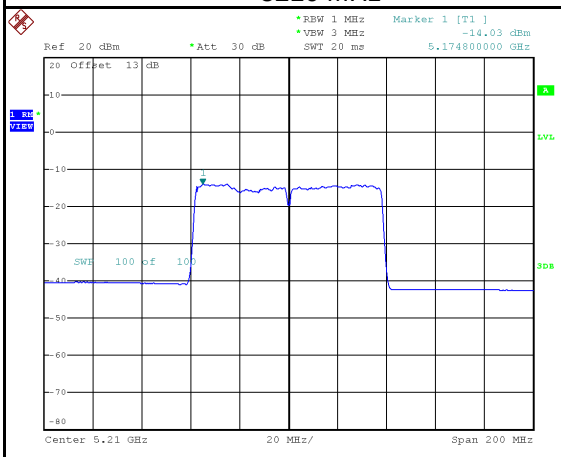
5530 MHz	5610 MHz
	

Test Frequency (MHz)	Power Density (dBm/100 kHz)	Power Density (dBm/500 kHz)	Duty Factor (dB)	Calculated Power Density (dBm/500 kHz)	Maximum Limit (dBm/500 kHz)	Result
5775	-16.21	-9.22	0.17	-9.05	27.98	Pass
NOTE: $PSD_{dBm/500\ kHz} = PSD_{dBm/100KHz} + 10 \times \log10(500\ KHz / 100\ kHz)$						

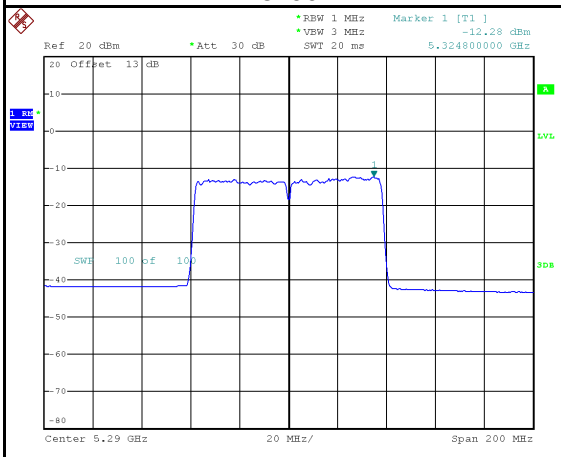
5775 MHz	-
	-

Test Mode	IEEE 802.11ac (VHT80)_Main Antenna

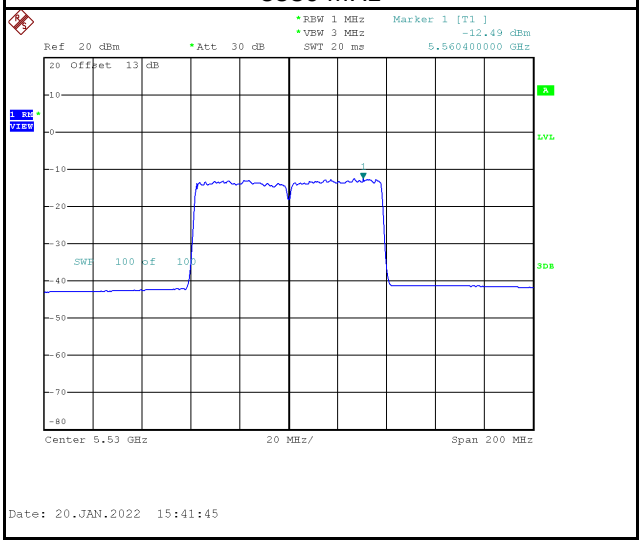
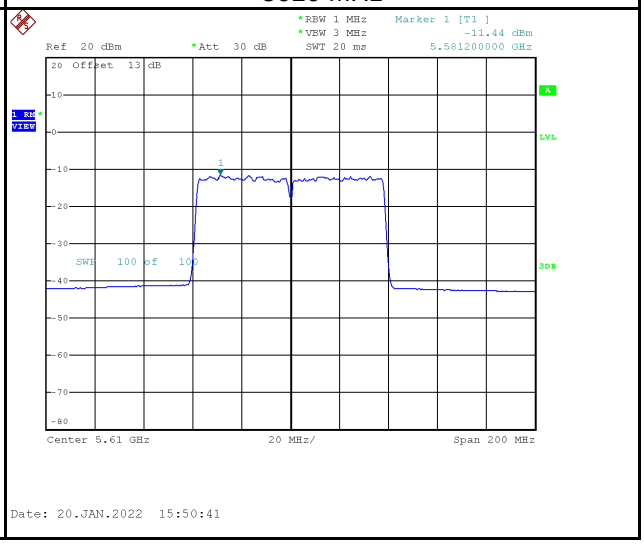
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5210	-14.03	0.17	-13.86	8.98	Pass

5210 MHz	-
	-

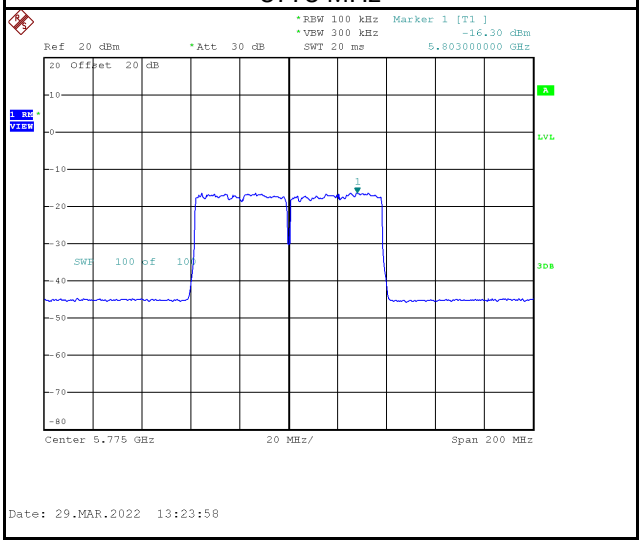
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5290	-12.28	0.17	-12.11	8.98	Pass

5290 MHz	-
	-

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5530	-12.49	0.17	-12.32	8.98	Pass
5610	-11.44	0.17	-11.27	8.98	Pass

5530 MHz	5610 MHz
	

Test Frequency (MHz)	Power Density (dBm/100 kHz)	Power Density (dBm/500 kHz)	Duty Factor (dB)	Calculated Power Density (dBm/500 kHz)	Maximum Limit (dBm/500 kHz)	Result
5775	-16.30	-9.31	0.17	-9.14	27.98	Pass
NOTE: $PSD_{dBm/500\ kHz} = PSD_{dBm/100KHz} + 10 \times \log10(500\ KHz / 100\ kHz)$						

5775 MHz	-
	-

Test Mode	IEEE 802.11ac (VHT80)_Total

Test Frequency (MHz)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5210	-10.73	8.98	Pass

Test Frequency (MHz)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5290	-9.15	8.98	Pass

Test Frequency (MHz)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5530	-9.25	8.98	Pass
5610	-8.25	8.98	Pass

Test Frequency (MHz)	Calculated Power Density (dBm/500 kHz)	Maximum Limit (dBm/500 kHz)	Result
5775	-6.08	27.98	Pass

End of Test Report