FCC Radio Test Report

FCC ID: 2BH7FC64V2

Report No.	:	BTL-FCCP-2-2506C215
Equipment	:	AC1200 MU-MIMO Wi-Fi Router
Model Name	:	Archer C64
Brand Name	:	tp-link
Applicant	:	TP-Link Systems Inc.
Address	:	10 Mauchly, Irvine, CA 92618
Manufacturer	:	TP-Link Systems Inc.
Address	:	10 Mauchly, Irvine, CA 92618
Radio Function	:	RLAN 5GHz (UNII-1, UNII-3)
FCC Rule Part(s)	:	FCC CFR Title 47, Part 15, Subpart E (15.407)
Measurement Procedure(s)	:	ANSI C63.10-2013
Date of Receipt	:	2025/7/15
Date of Test	:	2025/7/15 ~ 2025/7/23
Issued Date	:	2025/8/20

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

Prepared by : Poken Huang

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Approved by : Peter Chen

Peter Chen, Manager

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Declaration

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

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

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

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

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

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

Limitation

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

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

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2506C215	R00	Original Report.	2025/8/20	Valid

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart E				
Standard(s) Section	**Test Item**	**Test Result**	**Judgment**	**Remark**
15.207 15.407(b)	AC Power Line Conducted Emissions	APPENDIX A	PASS	------
15.407(b) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C	PASS	------
15.407(a) 15.407(e)	Bandwidth	APPENDIX D	PASS	------
15.407(a)	Maximum Output Power	APPENDIX E	PASS	------
15.407(a)	Power Spectral Density	APPENDIX F	PASS	------
15.407(g)	Frequency Stability	------	**NOTE (5)**	------
15.203	Antenna Requirements	------	PASS	**NOTE (2)**
15.407(c)	Automatically Discontinue Transmission	------	PASS	**NOTE (3)**

Note:
(1) "N/A" denotes test is not applicable in this test report.
(2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.
(3) During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.
(4) For UNII-1 this device was functioned as a
☐ Outdoor access point device
☒ Indoor access point device
☐ Fixed point-to-point access points device
☐ Client device
(5) The item is declared by the manufacturer.

1.1 TEST FACILITY

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

No.64, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659, FCC RN: 674415

☒ CB20 ☒ C01

No. 68-2, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (FCC DN: TW0659)

☒ SR06

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))
The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C01	CISPR	150 kHz ~ 30MHz	3.44

B. Radiated emissions test:

Test Site	Measurement Frequency Range (GHz)	U (dB)
CB20 (3m)	0.03~0.2	4.01
	0.02~1	4.64
	1 ~ 6	5.91
	6 ~ 18	6.24
	18 ~ 26	3.93
	26 ~ 40	4.06

C. Other Measurement test:

Test Item	U
Occupied Bandwidth	0.86 %
Output power	0.40 dB
Power Spectral Density	0.86 dB
Conducted Spurious emissions	1.83 dB
Conducted Band edges	1.83 dB

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	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	Please refer to test data		AC 110V/60H	Benny Cao
Radiated Emissions-9kHz to 30MHz	Please refer to test data		AC 110V/60Hz	Benny Cao
Radiated Emissions-30MHz to 1000MHz	Please refer to test data		AC 110V/60Hz	Benny Cao
Radiated Emissions-Above 1000 MHz	25°C	50%	AC 110V/60Hz	Cheng Tsai
Bandwidth	25°C	50%	AC 110V/60Hz	Cheng Tsai
Maximum Output Power	25°C	50%	AC 110V/60Hz	Cheng Tsai
Power Spectral Density	25°C	50%	AC 110V/60Hz	Cheng Tsai

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 MU-MIMO Wi-Fi Router
Brand Name	tp-link
Test Model	Archer C64
Model Name	Archer C64
Model Difference(s)	N/A
Software Version	2.0
Hardware Version	2.0
Power Source	DC voltage supplied from AC adapter. Model: T120100-2B1
Power Rating	Input: 100-240V~ 50/60Hz 0.3A Output: 12V⎓1A
Operation Frequency Band(s)	UNII-1: 5150 MHz ~ 5250 MHz UNII-3: 5725 MHz ~ 5850 MHz
Modulation Type	IEEE 802.11a/n/ac: OFDM
Bit Rate of Transmitter	IEEE 802.11a: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps IEEE 802.11ac: up to 866.7 Mbps
Maximum Output Power_UNII-1	IEEE 802.11ac(VHT80): 23.90 dBm (0.2455 W)
Maximum Output Power_UNII-3	IEEE 802.11ac(VHT80): 23.22 dBm (0.2099 W)

Note:

1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

2. Channel List:

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20)		IEEE 802.11ac(VHT40) IEEE 802.11n(HT40)		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 802.11ac(VHT40) IEEE 802.11n(HT40)		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. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	tp-link	Archer C64	Dipole	Weld	5.77
2	tp-link	Archer C64	Dipole	Weld	5.88

Note:

(1) This EUT supports CDD, and all antenna gains are not equal, Directional gain = G_{ANT}+Array Gain.
For power measurements, Array Gain=0dB (N_{ANT}≤4), so the Directional gain= 5.88.
For power spectral density measurements, N_{ANT}= 2, N_{SS} = 1.
So the Directional gain=G_{ANT}+Array Gain=G_{ANT}+10log(N_{ANT}/ N_{SS})dBi=5.88+10log(2/1)dBi=8.89.
Then, the UNII-1 power spectral density limit is 17-(8.89-6)=14.11,
the UNII-3 power spectral density limit is 30-(8.89-6)=27.11.

(2) Beamforming Gain: 3dB

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

5. Table for Antenna Configuration:

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

2.2 TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal	-	-
Transmitter Radiated Emissions (below 1GHz)	IEEE 802.11ac(VHT80)	42	-
Transmitter Radiated Emissions (above 1GHz)	IEEE 802.11a	36/48 149/165	Bandedge
	IEEE 802.11ac(VHT20)		
	IEEE 802.11ac(VHT40)	38/46 151/159	
	IEEE 802.11ac(VHT80)	42 155	
	IEEE 802.11a	36/40/48 149/157/165	Harmonic
	IEEE 802.11ac(VHT20)		
	IEEE 802.11ac(VHT40)	38/46 151/159	
	IEEE 802.11ac(VHT80)	42 155	
Transmitter Radiated Emissions (above 18GHz)	IEEE 802.11ac(VHT80)	42	-
Bandwidth & Output Power & Power Spectral Density	IEEE 802.11a	36/40/48 149/157/165	-
	IEEE 802.11ac(VHT20)		
	IEEE 802.11ac(VHT40)	38/46 151/159	
	IEEE 802.11ac(VHT80)	42 155	

Note:
(1) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX AC(VHT80) Mode Channel 42 (UNII-1) is found to be the worst case and recorded.
(2) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz and 26.5GHz~40GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
(3) For radiated emission Harmonic above 18GHz test, only tested the worst case and recorded.
(4) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
(5) For radiated emission above 1GHz test, both Vertical and Horizontal are evaluated, but only the worst case (Vertical) is recorded.
(6) VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.
(7) The measurements for RF Output Power are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.

2.3 PARAMETERS OF TEST SOFTWARE

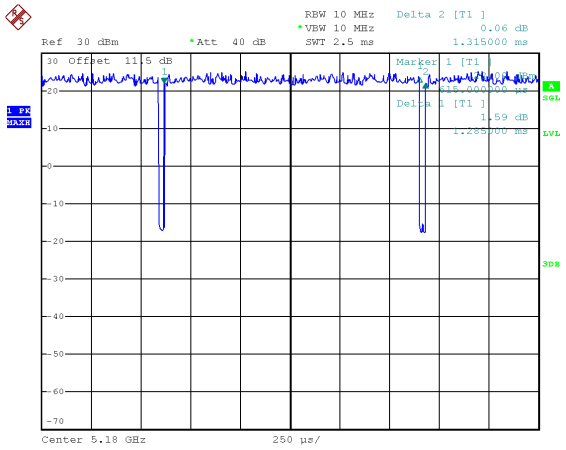
UNII-1			
Test Software Version	IPOP V4.0		
Frequency (MHz)	5180	5200	5240
IEEE 802.11a	104	100	100
IEEE 802.11ac(VHT20)	101	101	101
Frequency (MHz)	5190	5230	
IEEE 802.11ac(VHT40)	110/110	105/103	
Frequency (MHz)	5210		
IEEE 802.11ac(VHT80)	110		

UNII-3			
Test Software Version	IPOP V4.0		
Frequency (MHz)	5745	5785	5825
IEEE 802.11a	95	90	90
IEEE 802.11ac(VHT20)	97	95	95
Frequency (MHz)	5755	5795	
IEEE 802.11ac(VHT40)	99	99	
Frequency (MHz)	5775		
IEEE 802.11ac(VHT80)	103		

2.4 DUTY CYCLE

If duty cycle is ≥ 98 %, duty factor is not required.
If duty cycle is < 98 %, duty factor shall be considered.
The output power = measured power + duty factor.
The power spectral density = measured power spectral density + duty factor.

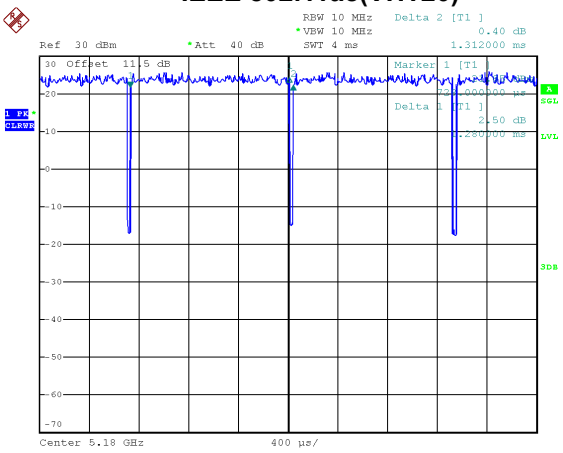
IEEE 802.11a



Date: 16.JUL.2025 20:03:52

Duty cycle = 1.285 ms / 1.315 ms = 97.72%
Duty Factor = 10 log(1 / Duty cycle) = 0.10

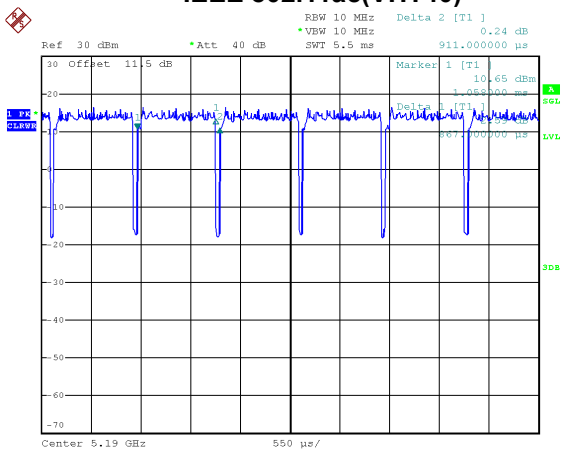
IEEE 802.11ac(VHT20)



Date: 16.JUL.2025 20:04:19

Duty cycle = 1.280 ms / 1.312 ms = 97.56%
Duty Factor = 10 log(1 / Duty cycle) = 0.11

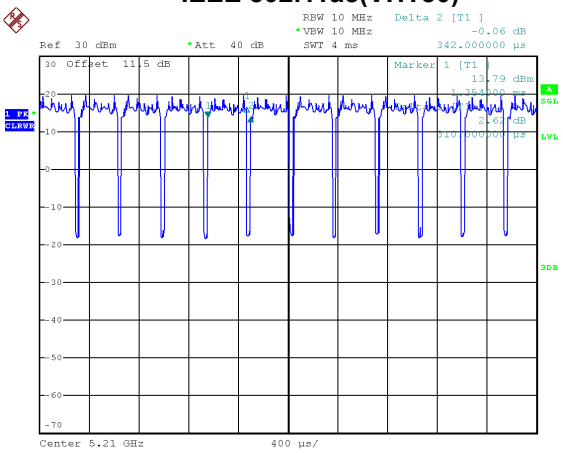
IEEE 802.11ac(VHT40)



Date: 16.JUL.2025 20:07:09

Duty cycle = 0.867 ms / 0.911 ms = 95.17%
Duty Factor = 10 log(1 / Duty cycle) = 0.21

IEEE 802.11ac(VHT80)



Date: 16.JUL.2025 20:08:03

Duty cycle = 0.310 ms / 0.342 ms = 90.64%
Duty Factor = 10 log(1 / Duty cycle) = 0.43

NOTE:
For IEEE 802.11a:
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 778 Hz (Duty cycle < 98%).

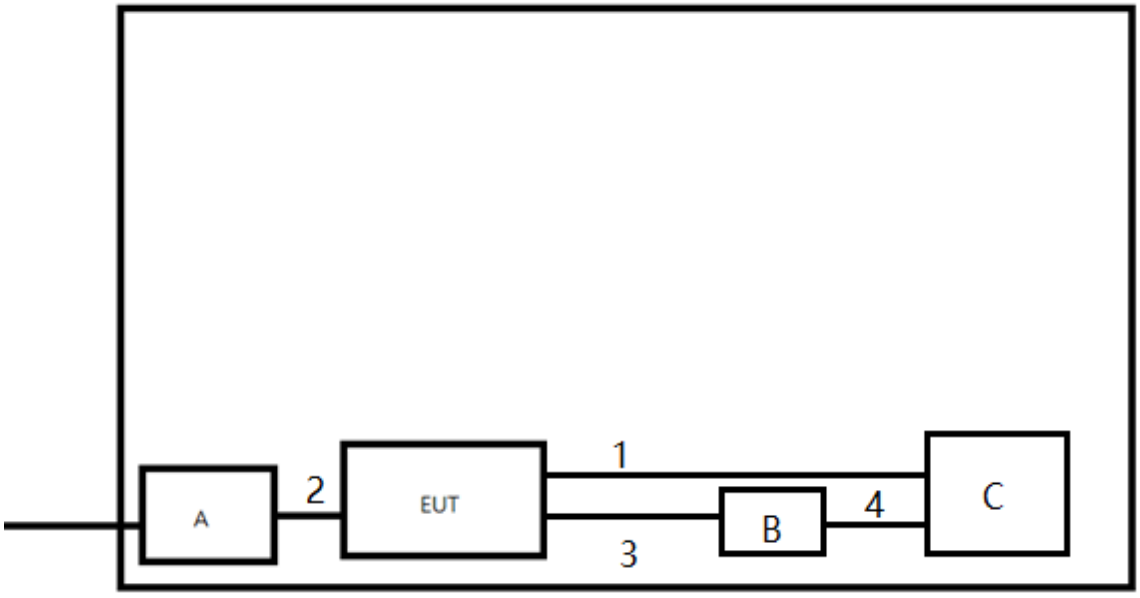
For IEEE 802.11ac(VHT20):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 781 Hz (Duty cycle < 98%).

For IEEE 802.11ac(VHT40):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1153 Hz (Duty cycle < 98%).

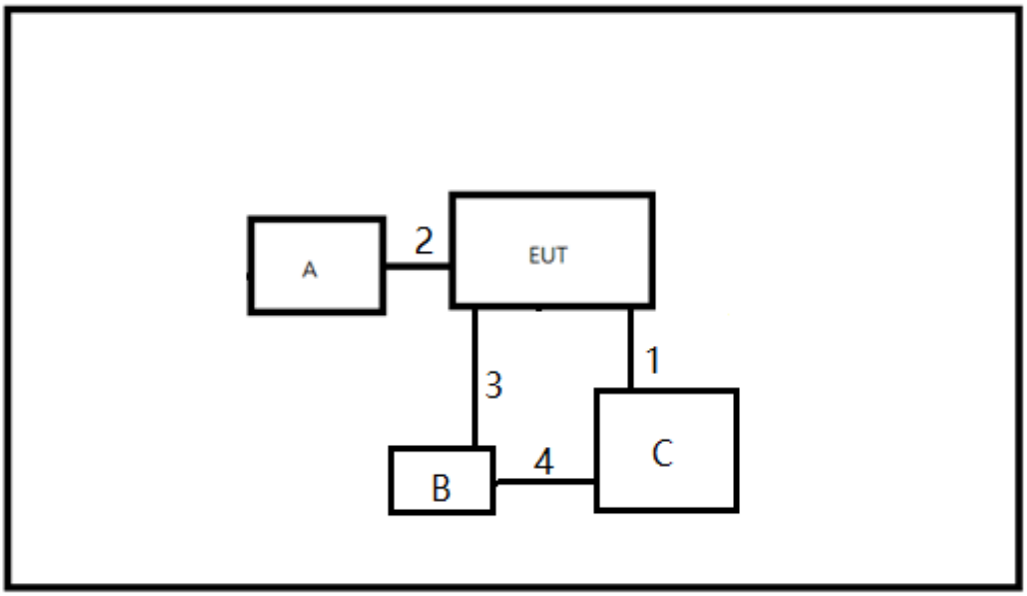
For IEEE 802.11ac(VHT80):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3226 Hz (Duty cycle < 98%).

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

AC power line conducted emissions



Radiated emissions



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Adapter	tp-link	T120100-2B1	N/A	Furnished by test requestor
B	Fixture	tp-link	RS-232	N/A	Furnished by test requestor
C	Notebook	Lenovo	21L2S5C300	PW0EDPVF	Furnished by test lab

Item	Cable Type	Shielded	Ferrite Core	Length	Remarks
1	RJ45 Cable	NO	NO	1m	Furnished by test requestor
2	DC Cable	NO	NO	1.5m	Furnished by test requestor
3	Fixture Cable	NO	NO	0.8m	Furnished by test lab
4	USB Cable	NO	NO	1m	Furnished by test lab

3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

Frequency (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 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 (dBuV)		Correct Factor (dB)		Measurement Value (dBuV)
38.22	+	3.45	=	41.67

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

3.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling 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 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

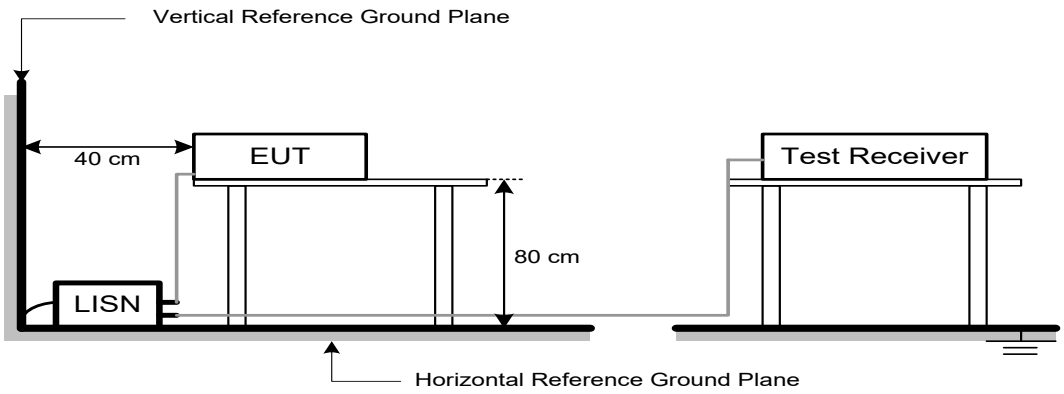
The following table is the setting of the receiver:

Receiver Parameter	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.3 DEVIATION FROM TEST STANDARD

No deviation

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.
The EUT was programmed to be in continuously transmitting/TX mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.

4. RADIATED EMISSIONS

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) 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
Above 960	500	3

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS (Above 1000 MHz)

Frequency (MHz)	EIRP Limit (dBm/MHz)	Band edge at 3m (dBμV/m)	Harmonic at 1m (dBμV/m)
5150-5250	-27	68.2	77.7 (Note 4)
5725-5850 **NOTE (2)**	-27	68.2	77.7 (Note 4)
	10	105.2	114.7 (Note 4)
	15.6	110.8	120.3 (Note 4)
	27	122.2	131.7 (Note 4)

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 15.407(b)(4)(i), 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 (dBuV)		Correct Factor (dB/m)		Measurement Value (dBuV/m)
19.11	+	2.11	=	21.22

Measurement Value (dBuV/m)		Limit Value (dBuV/m)		Margin Level (dB)
21.22	-	54	=	-32.78

(4)

$$FS_{\text{limit}} = FS_{\max} - 20\log\left(\frac{d_{\text{limit}}}{d_{\text{measure}}}\right)$$

20log ($d_{limit}/d_{measure}$)=20log (3/1)=9.5 dB.
FS_{limit}: Harmonic at 3m Peak and Average limit.
FS_{max}: Harmonic at 1m Peak and Average Maximum value.
d_{limit}: Harmonic at 3m test distance.
$d_{measure}$: Harmonic Actual test distance.

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 or 1 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 0.8m or 1.5m; 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 1 GHz.
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 1 GHz)
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 1 GHz)
i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic or 40 GHz, whichever is lower
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

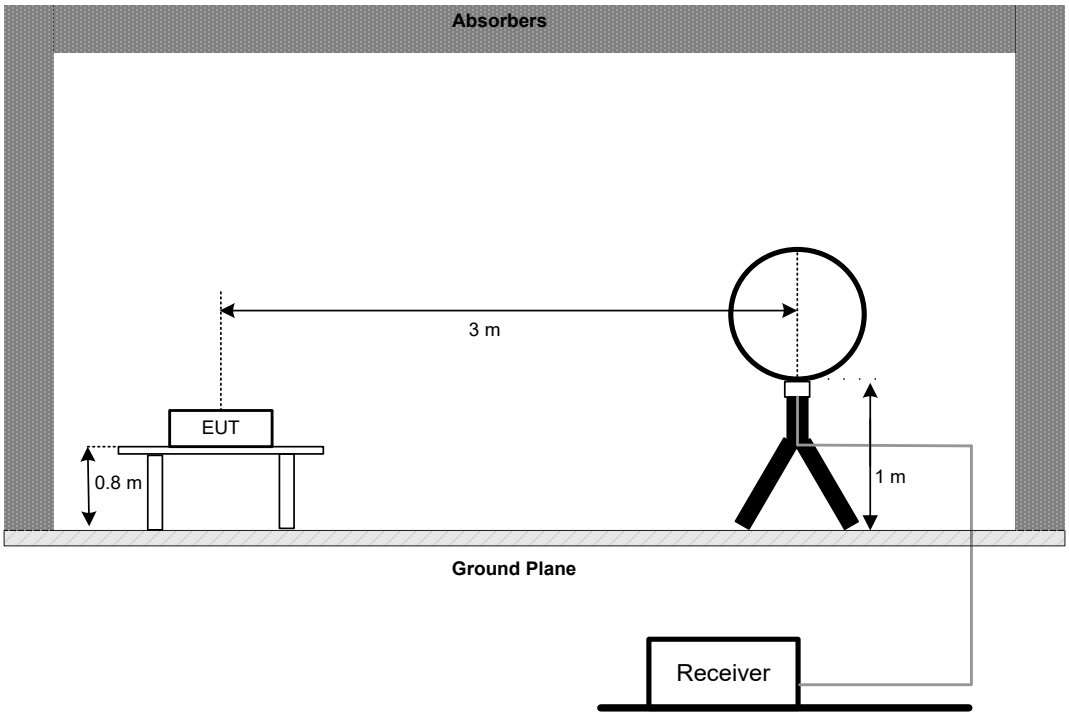
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~40 GHz for PK/AVG detector

4.3 DEVIATION FROM TEST STANDARD

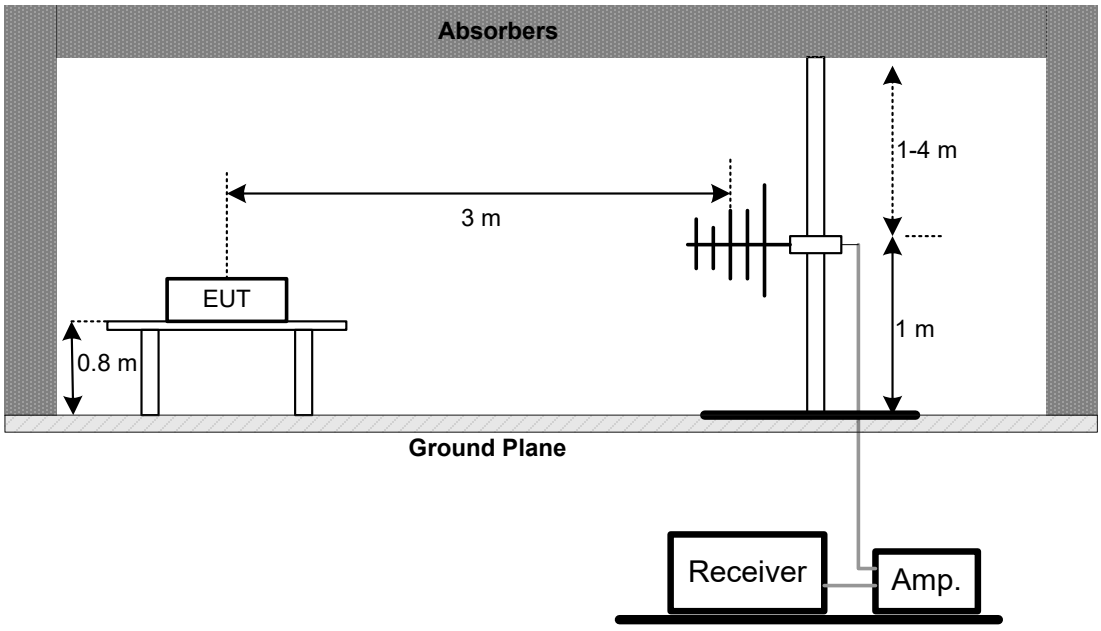
No deviation.

4.4 TEST SETUP

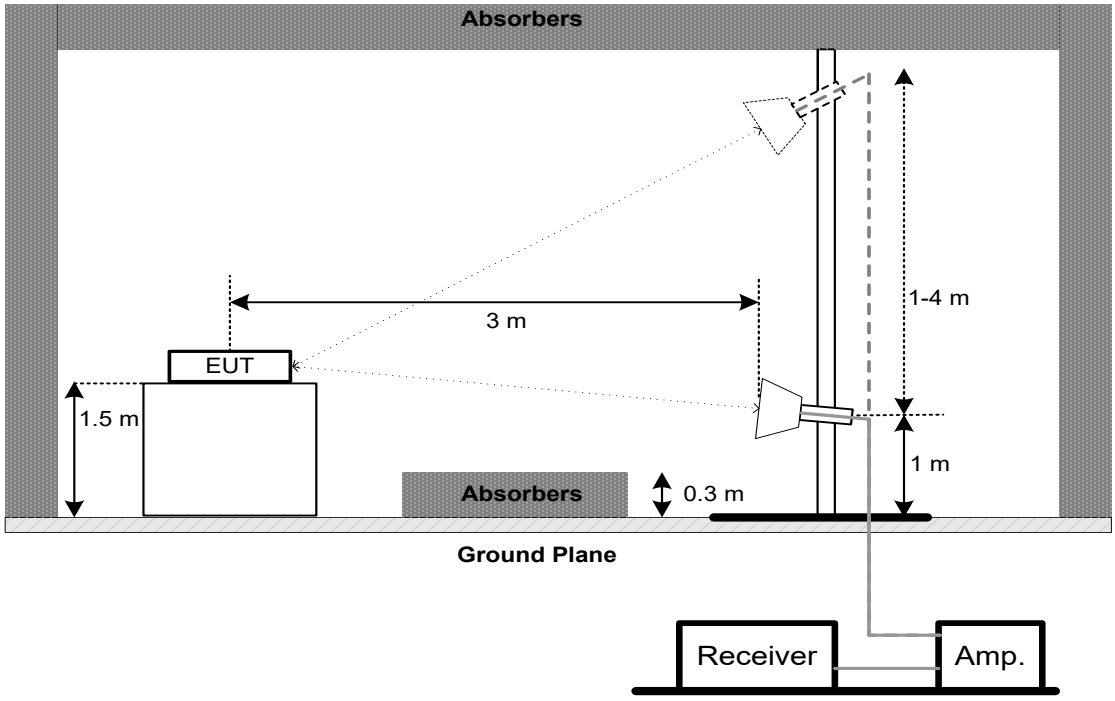
9 kHz to 30 MHz



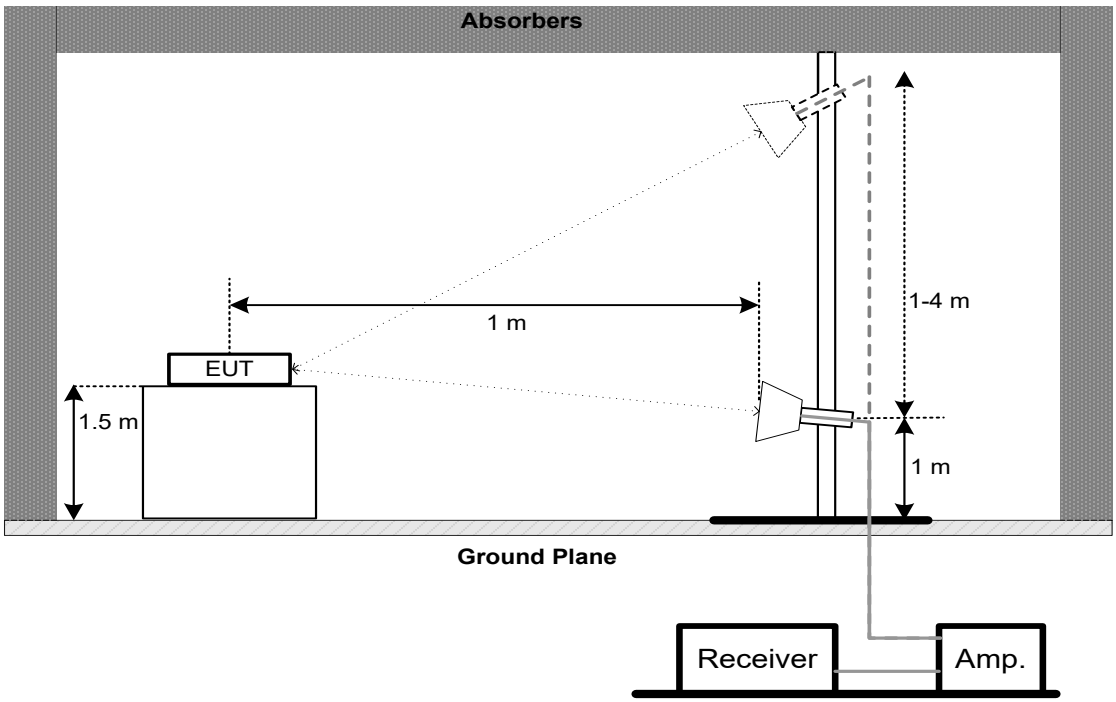
30 MHz to 1 GHz



Above 1 GHz
Band edge & Harmonic(1 GHz to 18 GHz)



Harmonic(18 GHz to 40 GHz)



4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS - 9 KHZ TO 30 MHZ

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

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX B.

4.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX C.

Remark:

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

5. BANDWIDTH

5.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	26 dB Bandwidth	-	5150-5250
FCC 15.407(e)	6 dB Bandwidth	Minimum 500 kHz	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:

For UNII-1:

Spectrum Parameter	Setting
Span Frequency	> 26 dB Bandwidth
RBW	Appromiximately 1% of the emission bandwidth
VBW	> RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For UNII-3:

Spectrum Parameter	Setting
Span Frequency	> 6 dB Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For 99% Occupied Bandwidth:

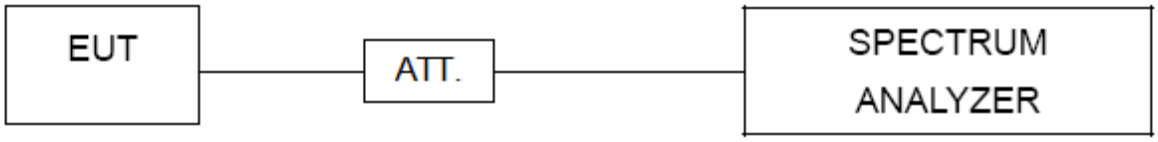
Spectrum Parameter	Setting
Span Frequency	1.5 times to 5 times the OBW
RBW	1% to 5% of the OBW
VBW	≥3*RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Aut

c. Measured the spectrum width with power higher than 26 dB / 6 dB below carrier.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6. MAXIMUM OUTPUT POWER

6.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	Maximum Output Power	AP device: 1 Watt (30 dBm) Client device: 250 mW (23.98 dBm)	5150-5250
		1 Watt (30dBm)	5725-5850

Note:

a. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

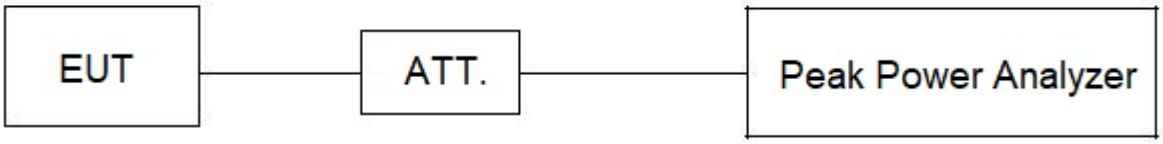
6.2 TEST PROCEDURE

a. The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
b. The test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX F.

7. POWER SPECTRAL DENSITY

7.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	Power Spectral Density	AP device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250
		30 dBm/500 kHz	5725-5850

7.2 TEST PROCEDURE

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

b. Spectrum Setting:

For UNII-1:

Spectrum Parameter	Setting
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1 MHz.
VBW	3 MHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

For UNII-3:

Spectrum Parameter	Setting
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	100 kHz.
VBW	300 kHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

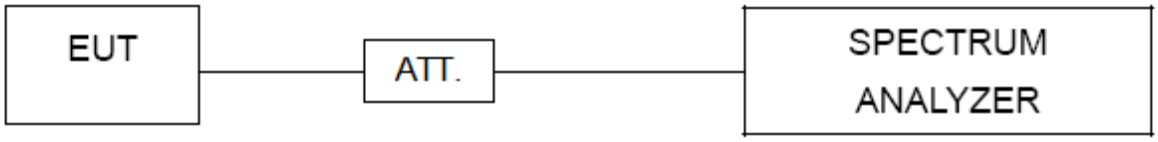
Note:

1. For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 100kHz and VBW at 300kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add 10 log (500 kHz/100 kHz) to the measured result, i.e. 7 dB.
2. During the test of U-NII 3 PSD, the measurement result with RBW=100kHz has been added 7 dB by compensating offset. For example, the cable loss is 11.5 dB, and the final offset is 11.5 + 7 = 18.5 dB when RBW=100kHz is used.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX G.

8. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Two-Line V-Network	R&S	ENV216	101051	2025/6/26	2026/6/25
2	Test Cable	EMCI	EMCRG58-BM-BM-9000	210501	2024/12/10	2025/12/9
3	EMC Receiver	Keysight	N9038A	MY54130009	2025/6/27	2026/6/26
4	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions - Below 1GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01207	2024/12/4	2025/12/3
2	EMC Receiver	Keysight	N9038A	MY54130009	2025/6/25	2026/6/24
3	Pre-Amplifier	EMCI	EMC001330-20201222	980807	2024/12/9	2025/12/8
4	Test Cable	EMCI	EMC-8D-NM-NM-5000	150106	2024/12/9	2025/12/8
5	Test Cable	EMCI	EMC-CFD-400-NM-NM-8000	200348	2024/12/9	2025/12/8
6	Test Cable	EMCI	EMC-CFD-400-NM-NM-3300	200343	2024/12/9	2025/12/8
7	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions - Above 1GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Broad-Band Horn Antenna	RFSPIN	DRH18-E	210109A18E	2025/1/14	2026/1/13
2	Pre-Amplifier	EMCI	EMC118A45SE	981030	2024/12/10	2025/12/9
3	Test Cable	EMCI	EMC105-SM-SM-1000	210119	2024/12/10	2025/12/9
4	Test Cable	EMCI	EMC105-SM-SM-3000	210118	2024/12/10	2025/12/9
5	Test Cable	EMCI	EMC105-SM-SM-7000	210117	2024/12/10	2025/12/9
6	EXA Spectrum Analyzer	keysight	N9020B	MY59050137	2024/11/24	2025/11/23
7	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions - Above 18GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Pre-Amplifier	EMCI	EMC184045SE	980512	2024/12/10	2025/12/9
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	340	2025/6/27	2026/6/26
3	Test Cable	EMCI	EMC102-KM-KM-1000	220328	2024/12/10	2025/12/9
4	Test Cable	EMCI	EMC101G-KM-KM-3000	220330	2024/12/10	2025/12/9
5	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Bandwidth & Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 30	100854	2025/6/27	2026/6/26
2	10dbAttenuator	INMET	AHC-10dB	1	2024/11/26	2025/11/25
3	BTL-Conducred Test	BTL	1247788684	N/A	N/A	N/A

Maximum Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	USB Peak Power Sensor	Anritsu	MA24408A	12589	2024/10/25	2025/10/24
2	10dbAttenuator	INMET	AHC-10dB	1	2024/11/26	2025/11/25
3	Measurement Software	Anritsu	MA2440A Peak Power analyzer(Ver1.1.0.0)	N/A	N/A	N/A

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

9. EUT TEST PHOTO

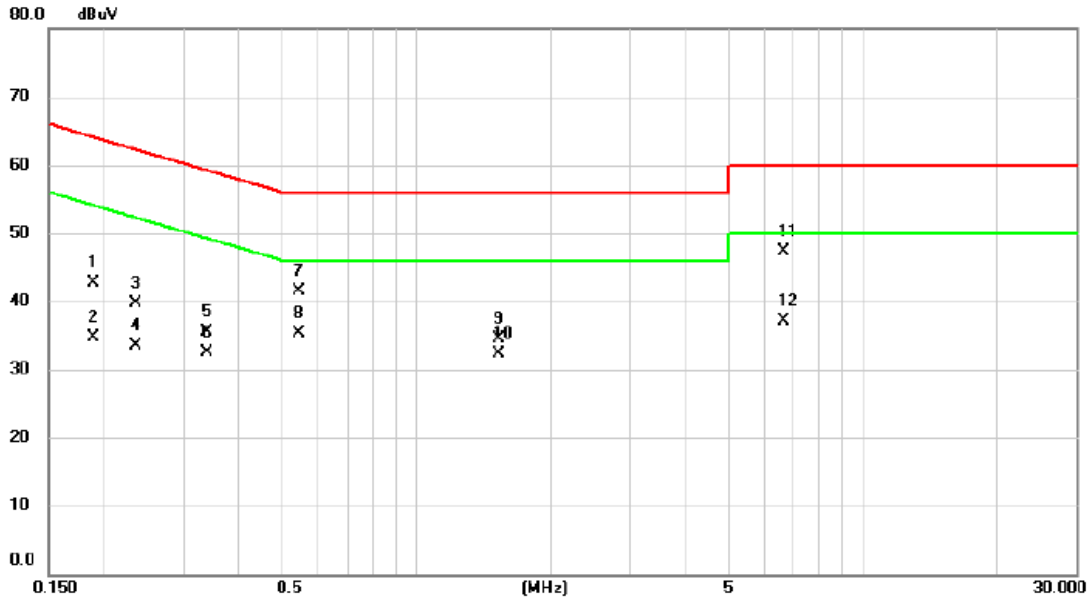
Please refer to document Appendix No.: TP-2506C215-1 (APPENDIX-TEST PHOTOS).

10. EUT PHOTOS

Please refer to document Appendix No.: EP-2506C215-1 (APPENDIX-EUT PHOTOS).

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

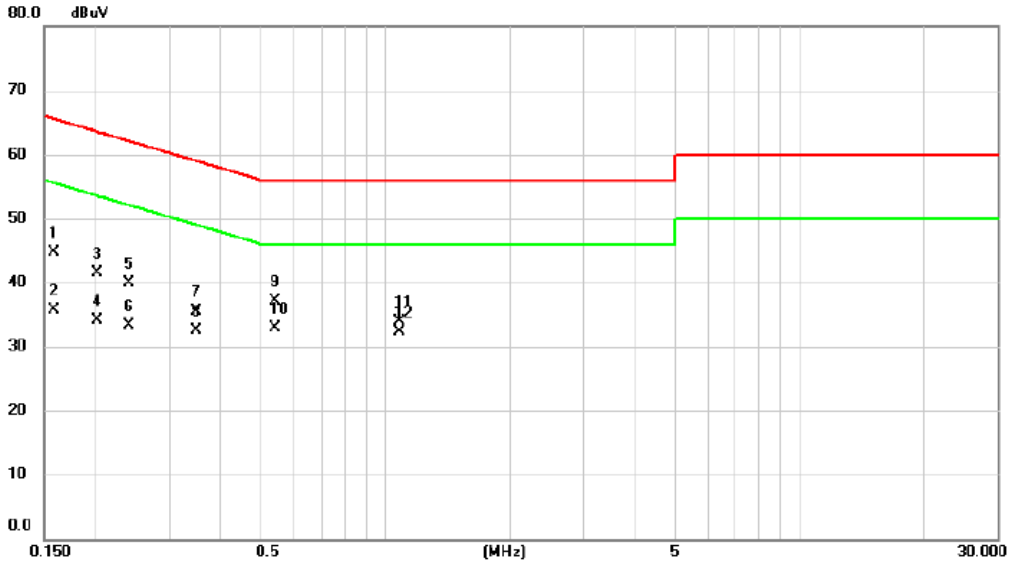
Test Mode	Normal	Test Date	2025/7/21
Test Frequency	-	Phase	Line
Temperature	25°C	Humidity	45%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1892	33.17	9.51	42.68	64.07	-21.39	QP	
2		0.1892	25.23	9.51	34.74	54.07	-19.33	AVG	
3		0.2357	30.24	9.51	39.75	62.25	-22.50	QP	
4		0.2357	24.05	9.51	33.56	52.25	-18.69	AVG	
5		0.3397	25.90	9.51	35.41	59.21	-23.80	QP	
6		0.3397	23.01	9.51	32.52	49.21	-16.69	AVG	
7		0.5450	31.98	9.52	41.50	56.00	-14.50	QP	
8	*	0.5450	25.87	9.52	35.39	46.00	-10.61	AVG	
9		1.5260	24.85	9.59	34.44	56.00	-21.56	QP	
10		1.5260	22.66	9.59	32.25	46.00	-13.75	AVG	
11		6.6250	37.56	9.76	47.32	60.00	-12.68	QP	
12		6.6250	27.43	9.76	37.19	50.00	-12.81	AVG	

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

Test Mode	Normal	Test Date	2025/7/21
Test Frequency	-	Phase	Neutral
Temperature	25°C	Humidity	45%

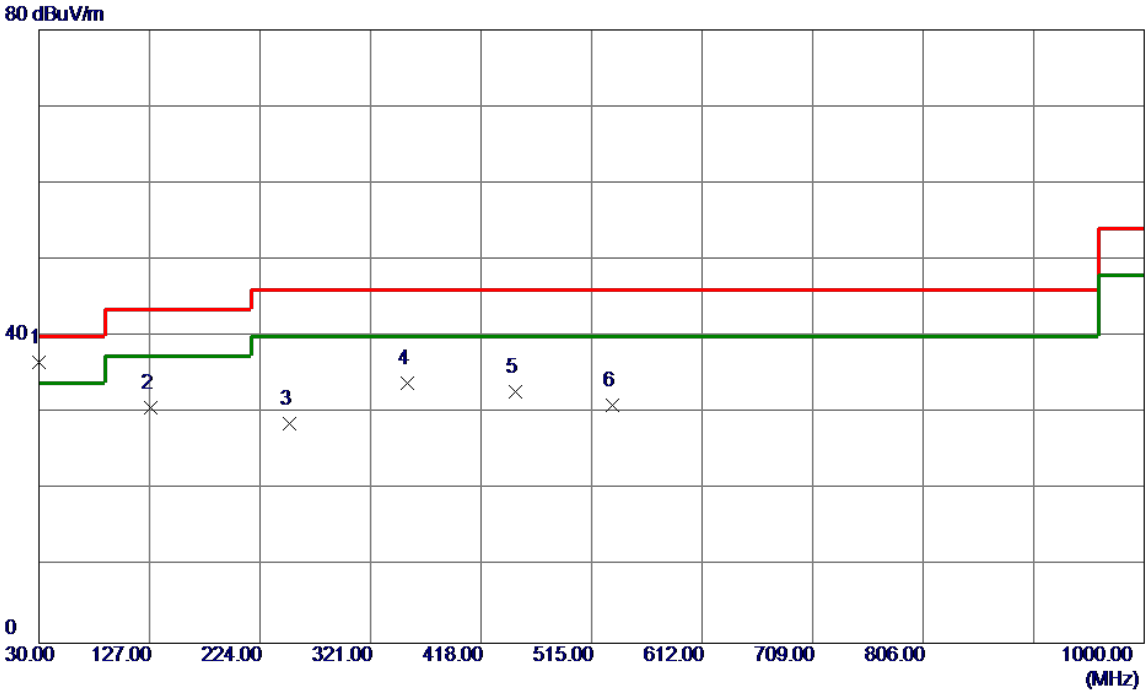


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	35.20	9.55	44.75	65.57	-20.82	QP	
2		0.1580	26.10	9.55	35.65	55.57	-19.92	AVG	
3		0.2017	31.91	9.56	41.47	63.54	-22.07	QP	
4		0.2017	24.48	9.56	34.04	53.54	-19.50	AVG	
5		0.2400	30.44	9.56	40.00	62.10	-22.10	QP	
6		0.2400	23.80	9.56	33.36	52.10	-18.74	AVG	
7		0.3481	26.01	9.56	35.57	59.01	-23.44	QP	
8		0.3481	22.89	9.56	32.45	49.01	-16.56	AVG	
9		0.5404	27.62	9.57	37.19	56.00	-18.81	QP	
10	*	0.5404	23.26	9.57	32.83	46.00	-13.17	AVG	
11		1.0805	24.42	9.57	33.99	56.00	-22.01	QP	
12		1.0805	22.68	9.57	32.25	46.00	-13.75	AVG	

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

APPENDIX B - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

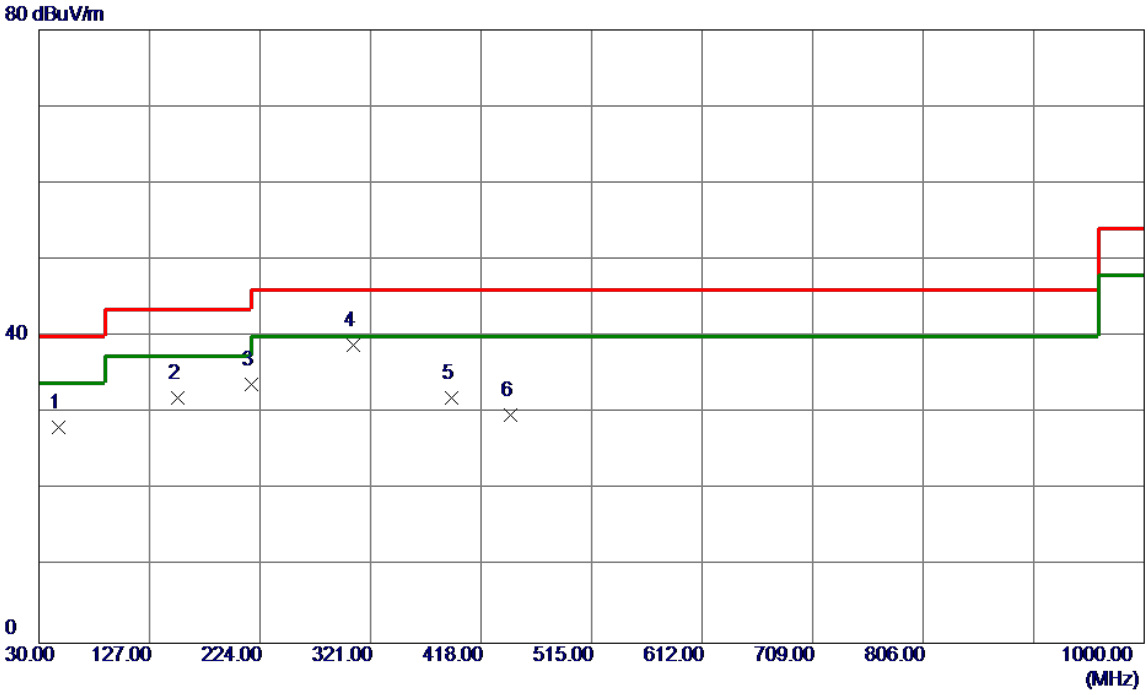
Test Mode	IEEE 802.11ac(VHT80)	Test Date	2025/7/21
Test Frequency	5210MHz	Polarization	Vertical
Temperature	25°C	Humidity	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	30.0000	50.61	-13.93	36.68	69.54	-32.86	Peak	
2	127.9700	43.94	-13.16	30.78	43.50	-12.72	Peak	
3	250.1900	40.37	-11.75	28.62	46.00	-17.38	Peak	
4 *	353.0100	42.59	-8.62	33.97	46.00	-12.03	Peak	
5	448.0700	38.53	-5.75	32.78	46.00	-13.22	Peak	
6	533.4300	35.28	-4.30	30.98	46.00	-15.02	Peak	

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

Test Mode	IEEE 802.11ac(VHT80)	Test Date	2025/7/21
Test Frequency	5210MHz	Polarization	Horizontal
Temperature	25°C	Humidity	65%



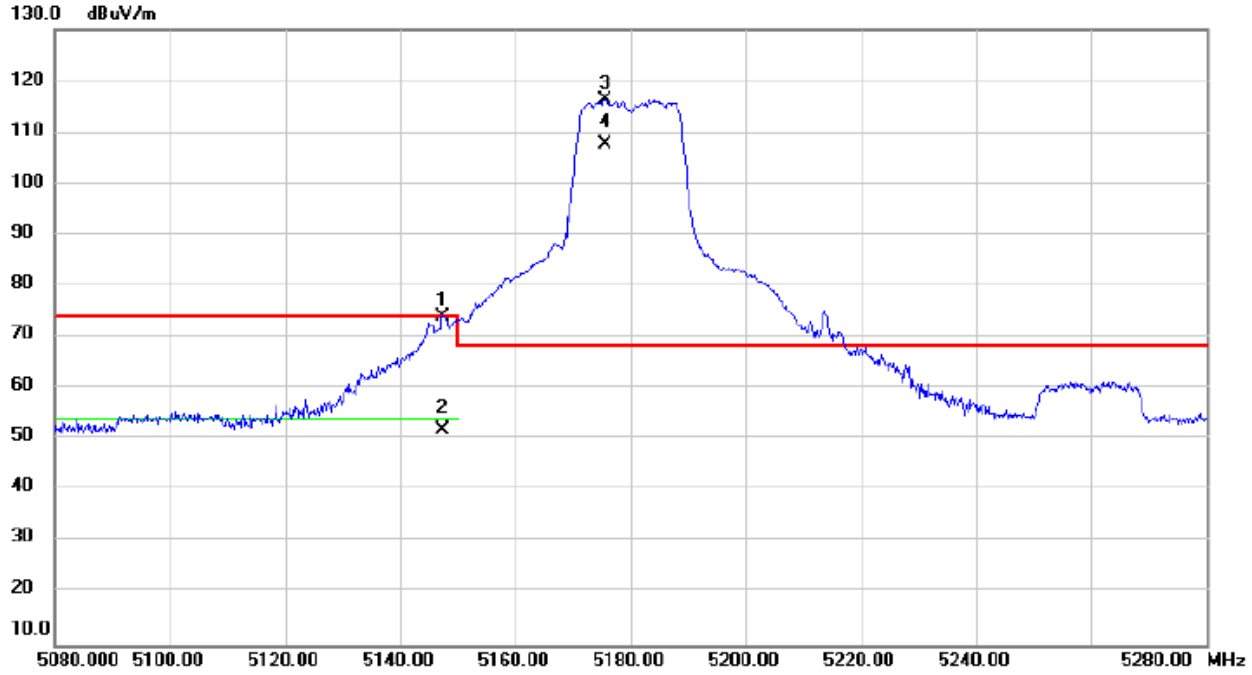
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	47.4600	39.61	-11.40	28.21	40.00	-11.79	Peak	
2	152.2200	42.97	-11.00	31.97	43.50	-11.53	Peak	
3	216.2400	47.62	-13.93	33.69	46.00	-12.31	Peak	
4 *	305.4800	48.70	-9.84	38.86	46.00	-7.14	Peak	
5	391.8100	39.32	-7.28	32.04	46.00	-13.96	Peak	
6	444.1900	35.61	-5.84	29.77	46.00	-16.23	Peak	

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

APPENDIX C- RADIATED EMISSION - ABOVE 1000 MHZ

Bandedge

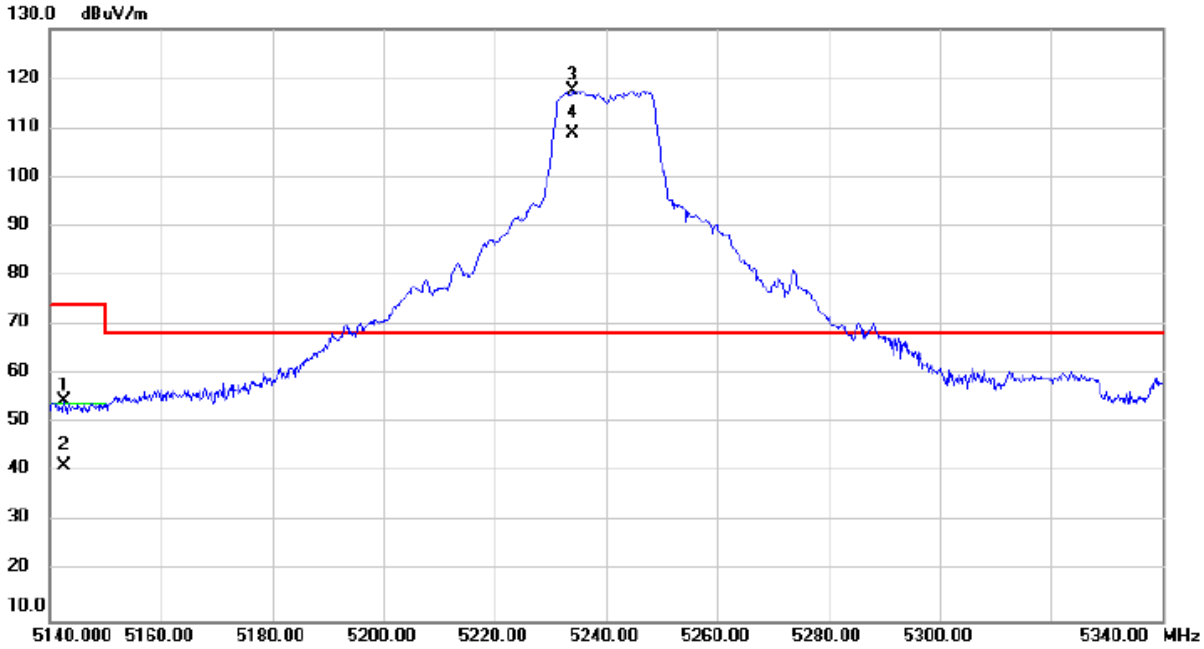
Test Mode	IEEE 802.11a	Test Date	2025/7/21
Test Frequency	5180MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5147.400	65.32	8.62	73.94	74.00	-0.06	peak	
2		5147.400	43.11	8.62	51.73	54.00	-2.27	AVG	
3	*	5175.600	107.6	8.64	116.33	68.20	48.13	peak	No Limit
4	X	5175.600	99.04	8.64	107.68	68.20	39.48	AVG	No Limit

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

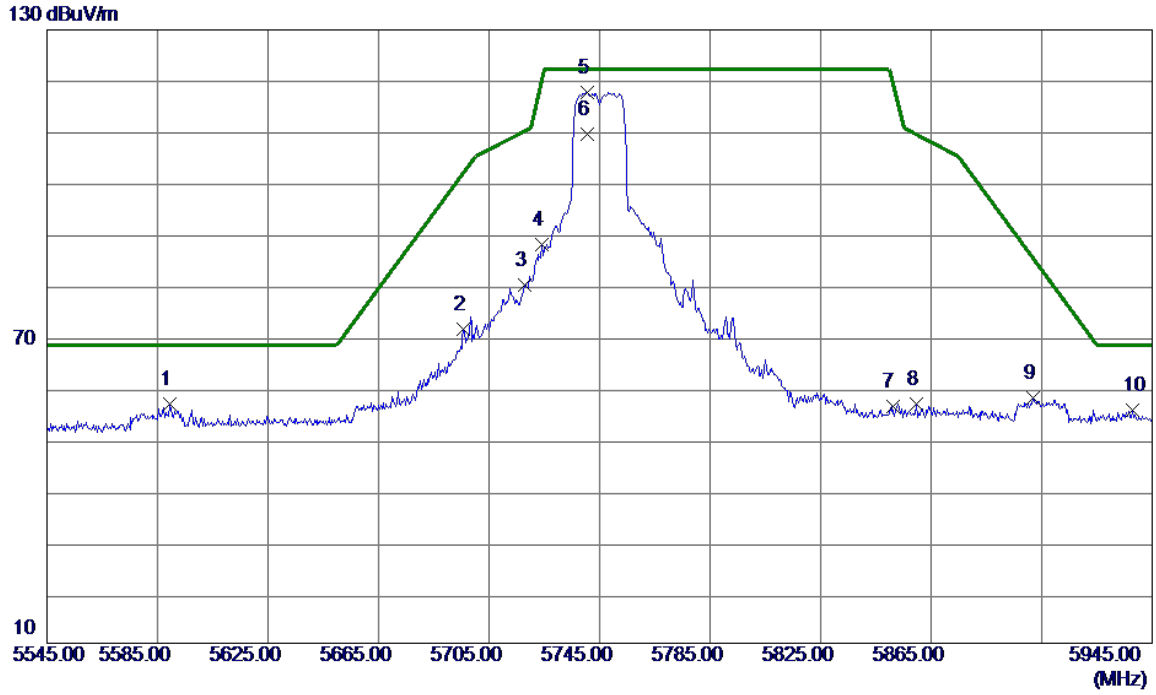
Test Mode	IEEE 802.11a	Test Date	2025/7/21
Test Frequency	5240MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5142.600	45.81	8.61	54.42	74.00	-19.58	peak	
2		5142.600	32.82	8.61	41.43	54.00	-12.57	AVG	
3	*	5234.000	108.8	8.69	117.51	68.20	49.31	peak	No Limit
4	X	5234.000	100.2	8.69	108.98	68.20	40.78	AVG	No Limit

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

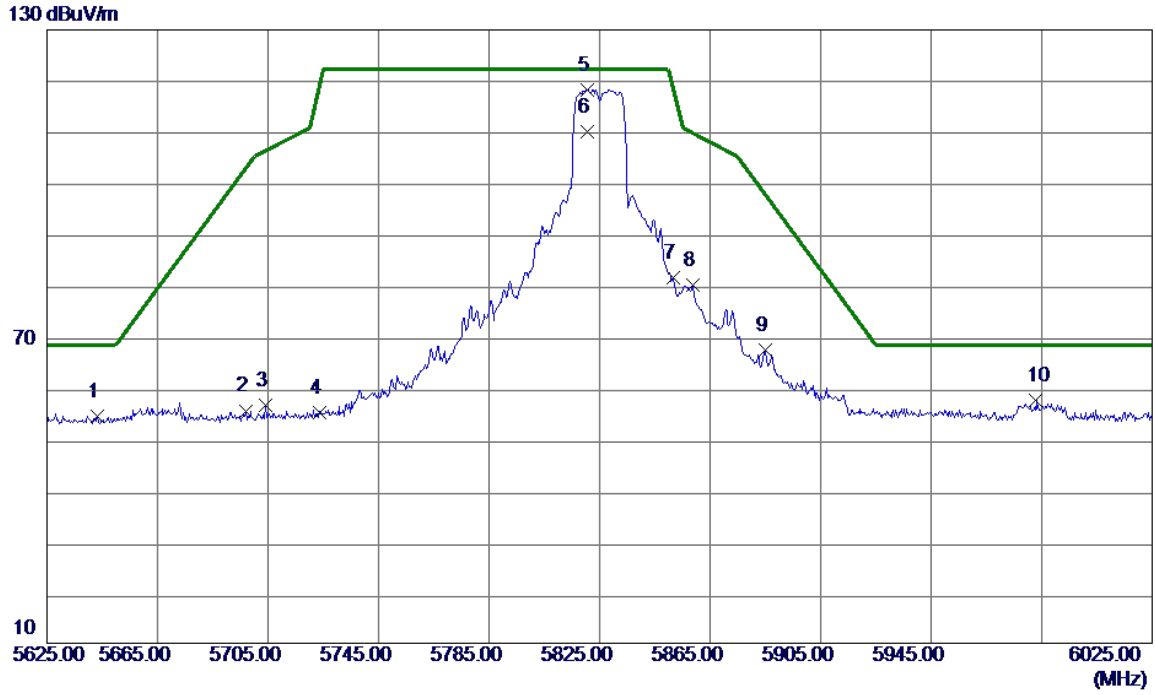
Test Mode	IEEE 802.11a	Test Date	2025/7/21
Test Frequency	5745MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5589.4000	47.66	9.15	56.81	68.20	-11.39	Peak	
2	5695.8000	61.94	9.50	71.44	102.10	-30.66	Peak	
3	5717.8000	70.57	9.57	80.14	110.18	-30.04	Peak	
4	5724.2000	78.31	9.59	87.90	120.38	-32.48	Peak	
5 *	5740.6000	108.19	9.65	117.84	122.20	-4.36	Peak	No Limit
6	5740.6000	100.02	9.65	109.67	122.20	-12.53	AVG	No Limit
7	5851.0000	46.34	10.02	56.36	119.92	-63.56	Peak	
8	5859.8000	46.67	10.04	56.71	109.45	-52.74	Peak	
9	5901.8000	47.83	10.18	58.01	85.33	-27.32	Peak	
10	5937.8000	45.33	10.30	55.63	68.20	-12.57	Peak	

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

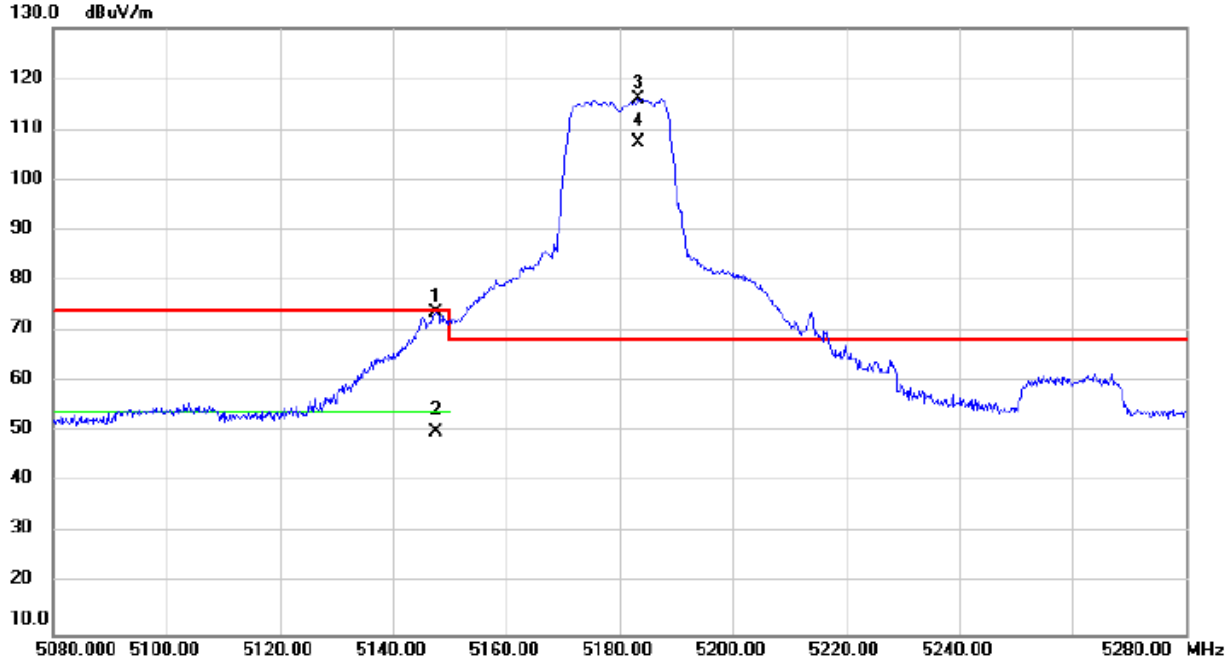
Test Mode	IEEE 802.11a	Test Date	2025/7/21
Test Frequency	5825MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5643.4000	45.18	9.33	54.51	68.20	-13.69	Peak	
2	5697.0000	45.98	9.50	55.48	102.99	-47.51	Peak	
3	5704.2000	47.00	9.53	56.53	106.38	-49.85	Peak	
4	5723.6669	45.45	9.59	55.04	119.16	-64.12	Peak	
5 *	5820.6000	108.44	9.91	118.35	122.20	-3.85	Peak	No Limit
6	5820.6000	100.12	9.91	110.03	122.20	-12.17	AVG	No Limit
7	5851.6669	71.39	10.02	81.41	118.40	-36.99	Peak	
8	5858.6000	70.01	10.04	80.05	109.79	-29.74	Peak	
9	5885.0000	57.28	10.13	67.41	97.77	-30.36	Peak	
10	5983.0000	47.13	10.45	57.58	68.20	-10.62	Peak	

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

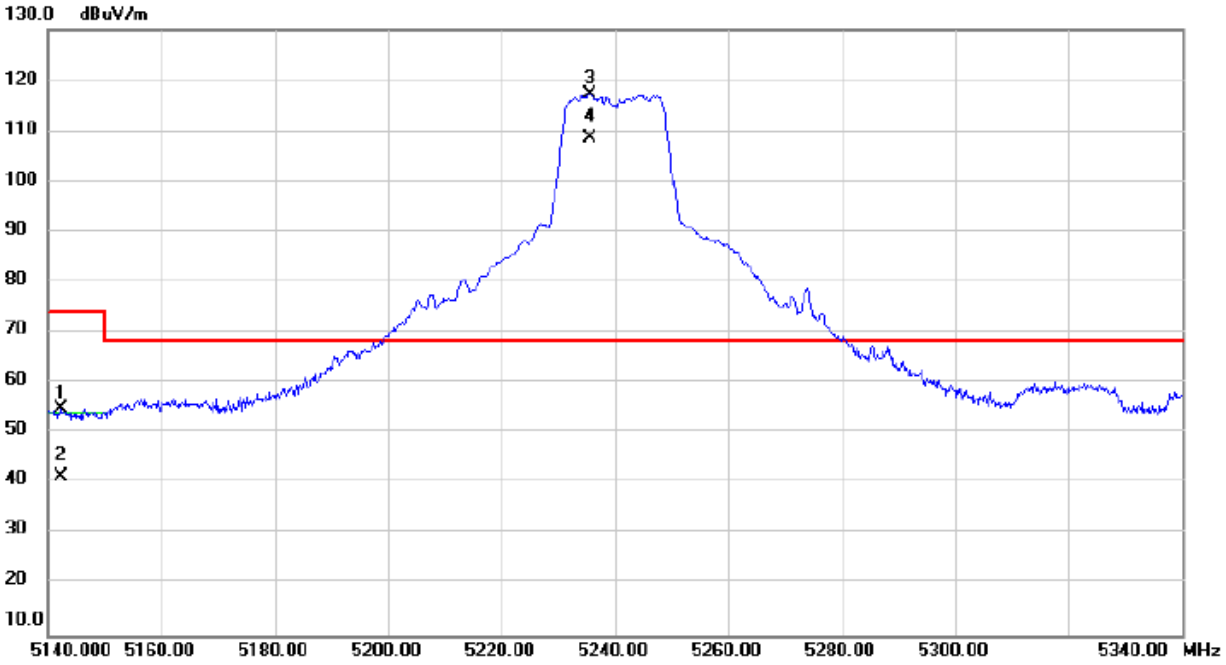
Test Mode	IEEE 802.11ac (VHT20)	Test Date	2025/7/21
Test Frequency	5180MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5147.600	65.17	8.62	73.79	74.00	-0.21	peak	
2		5147.600	41.49	8.62	50.11	54.00	-3.89	AVG	
3	*	5183.400	107.4	8.65	116.08	68.20	47.88	peak	No Limit
4	X	5183.400	98.73	8.65	107.38	68.20	39.18	AVG	No Limit

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

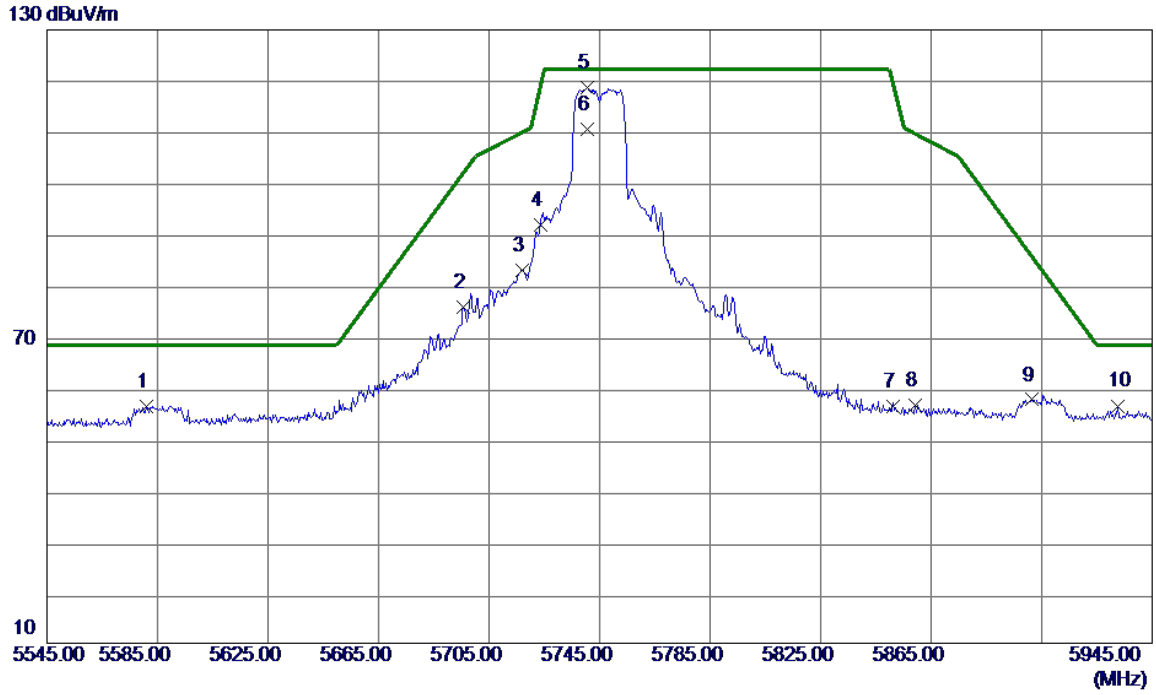
Test Mode	IEEE 802.11ac (VHT20)	Test Date	2025/7/21
Test Frequency	5240MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5142.400	46.30	8.61	54.91	74.00	-19.09	peak	
2		5142.400	32.80	8.61	41.41	54.00	-12.59	AVG	
3	*	5235.600	108.4	8.68	117.14	68.20	48.94	peak	No Limit
4	X	5235.600	99.88	8.68	108.56	68.20	40.36	AVG	No Limit

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

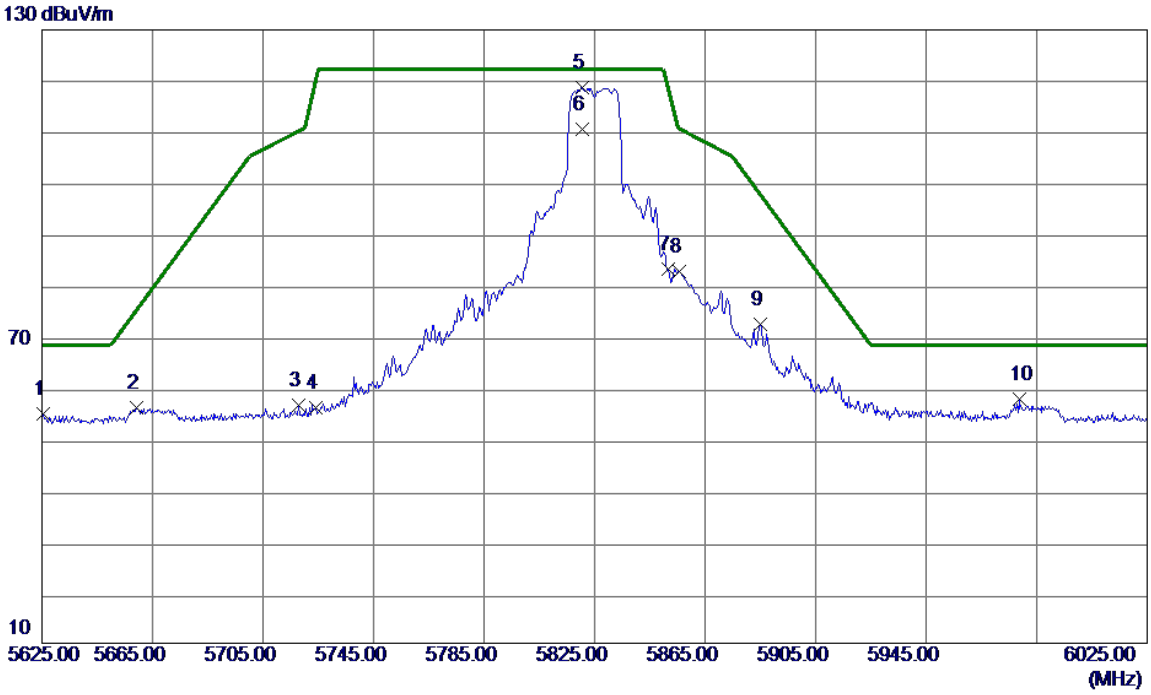
Test Mode	IEEE 802.11ac (VHT20)	Test Date	2025/7/21
Test Frequency	5745MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5581.0000	47.29	9.12	56.41	68.20	-11.79	Peak	
2	5695.8000	66.21	9.50	75.71	102.10	-26.39	Peak	
3	5717.0000	73.49	9.57	83.06	109.96	-26.90	Peak	
4	5723.6669	82.34	9.59	91.93	119.16	-27.23	Peak	
5 *	5740.6000	109.12	9.65	118.77	122.20	-3.43	Peak	No Limit
6	5740.6000	100.79	9.65	110.44	122.20	-11.76	AVG	No Limit
7	5851.1330	46.27	10.02	56.29	119.62	-63.33	Peak	
8	5859.4000	46.60	10.04	56.64	109.57	-52.93	Peak	
9	5901.4000	47.46	10.18	57.64	85.62	-27.98	Peak	
10	5932.6000	46.15	10.29	56.44	68.20	-11.76	Peak	

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

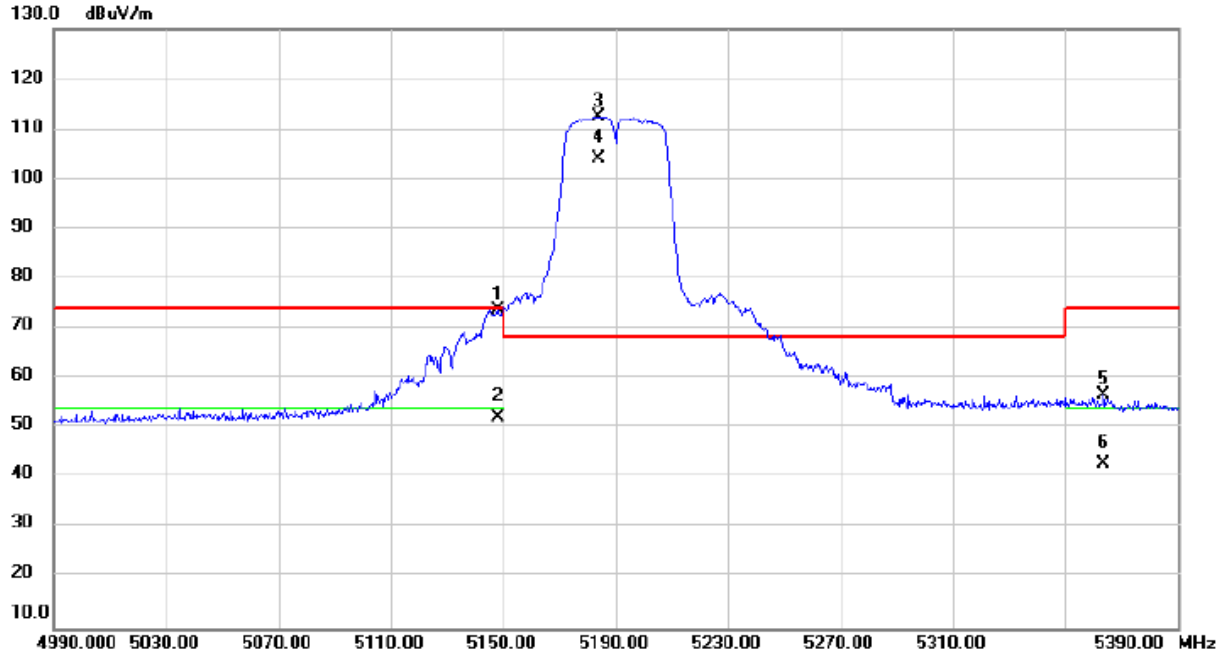
Test Mode	IEEE 802.11ac (VHT20)	Test Date	2025/7/21
Test Frequency	5825MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5625.4000	45.71	9.27	54.98	68.20	-13.22	Peak	
2	5659.4000	46.64	9.38	56.02	75.18	-19.16	Peak	
3	5717.8000	47.02	9.57	56.59	110.18	-53.59	Peak	
4	5724.2000	46.46	9.59	56.05	120.38	-64.33	Peak	
5 *	5820.6000	108.82	9.91	118.73	122.20	-3.47	Peak	No Limit
6	5820.6000	100.61	9.91	110.52	122.20	-11.68	AVG	No Limit
7	5851.6669	73.06	10.02	83.08	118.40	-35.32	Peak	
8	5855.8000	72.72	10.03	82.75	110.58	-27.83	Peak	
9	5885.0000	62.26	10.13	72.39	97.77	-25.38	Peak	
10	5978.6000	47.36	10.44	57.80	68.20	-10.40	Peak	

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

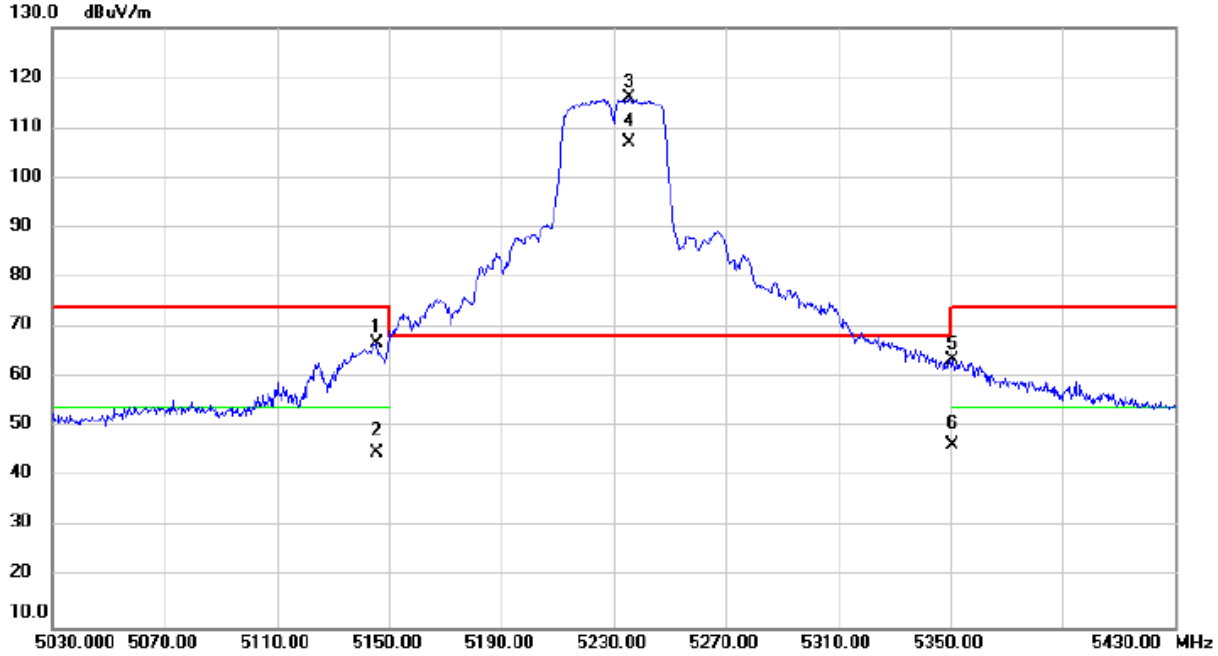
Test Mode	IEEE 802.11ac (VHT40)	Test Date	2025/7/21
Test Frequency	5190MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5148.000	65.06	8.62	73.68	74.00	-0.32	peak	
2		5148.000	43.47	8.62	52.09	54.00	-1.91	AVG	
3	*	5184.000	103.8	8.65	112.51	68.20	44.31	peak	No Limit
4	X	5184.000	95.34	8.65	103.99	68.20	35.79	AVG	No Limit
5		5363.600	47.97	8.76	56.73	74.00	-17.27	peak	
6		5363.600	34.19	8.76	42.95	54.00	-11.05	AVG	

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

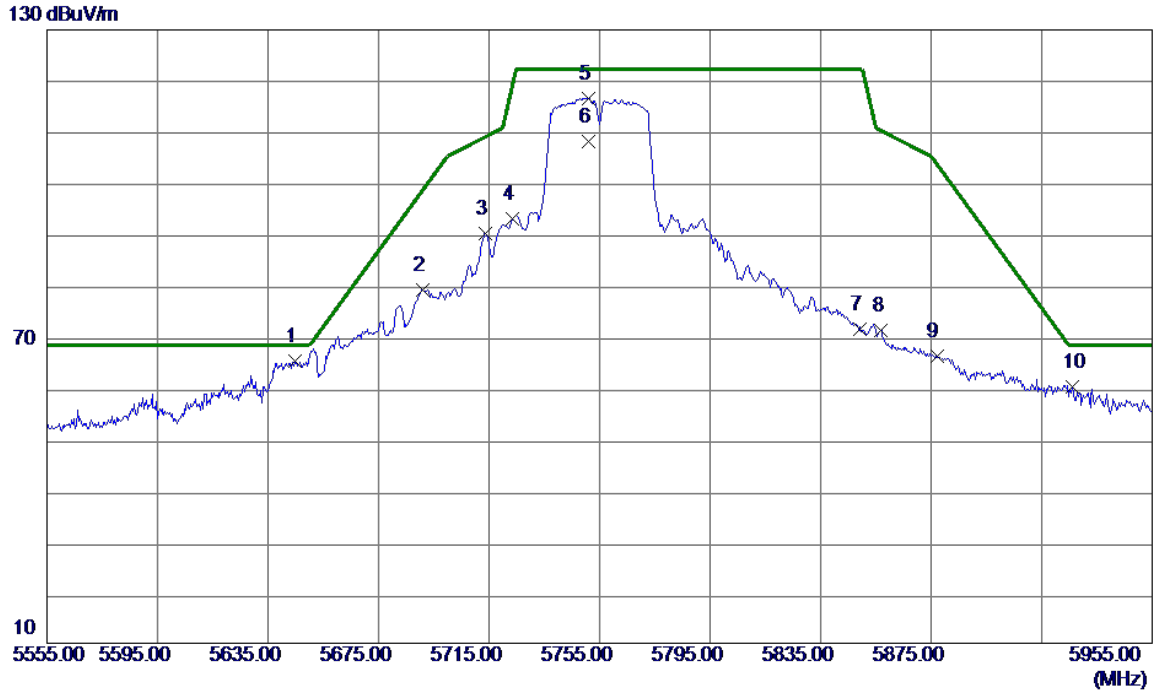
Test Mode	IEEE 802.11ac (VHT40)	Test Date	2025/7/21
Test Frequency	5230MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5145.600	58.30	8.62	66.92	74.00	-7.08	peak	
2		5145.600	36.47	8.62	45.09	54.00	-8.91	AVG	
3	*	5235.600	107.2	8.68	115.93	68.20	47.73	peak	No Limit
4	X	5235.600	98.43	8.68	107.11	68.20	38.91	AVG	No Limit
5		5350.800	54.86	8.76	63.62	74.00	-10.38	peak	
6		5350.800	37.69	8.76	46.45	54.00	-7.55	AVG	

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

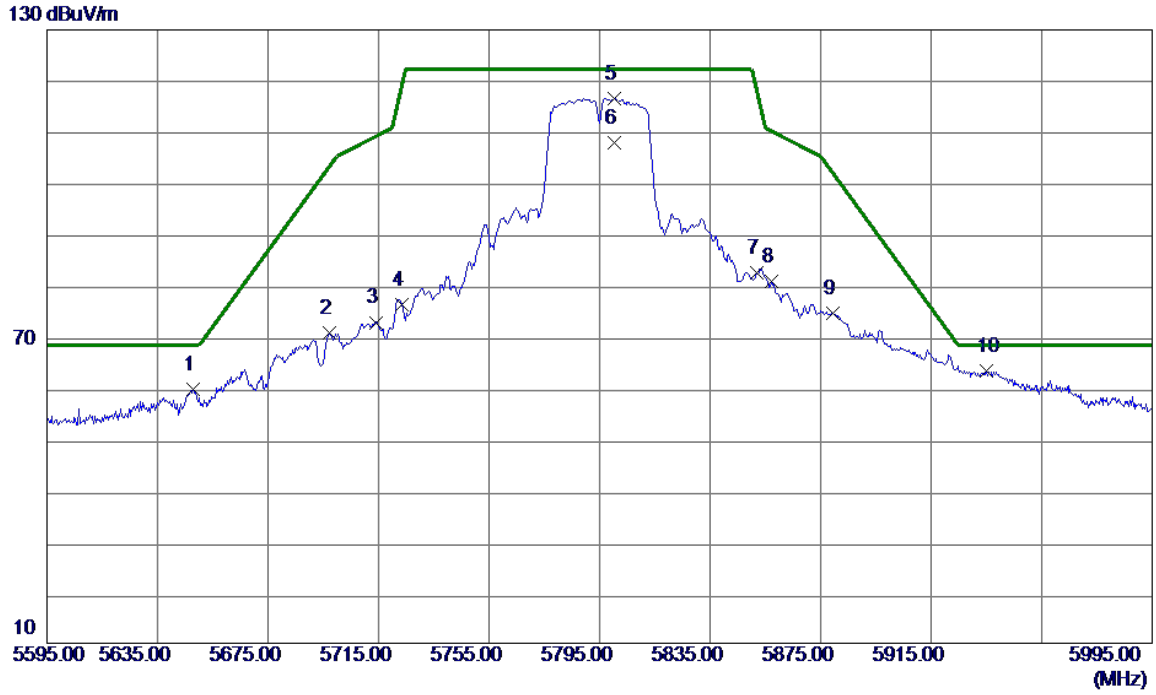
Test Mode	IEEE 802.11ac (VHT40)	Test Date	2025/7/21
Test Frequency	5755MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5644.6000	55.78	9.33	65.11	68.20	-3.09	Peak	
2	5691.0000	69.69	9.48	79.17	98.56	-19.39	Peak	
3	5713.8000	80.64	9.56	90.20	109.07	-18.87	Peak	
4	5723.4000	83.35	9.59	92.94	118.55	-25.61	Peak	
5	5751.0000	106.93	9.68	116.61	122.20	-5.59	Peak	No Limit
6	5751.0000	98.41	9.68	108.09	122.20	-14.11	AVG	No Limit
7	5849.4000	61.54	10.01	71.55	122.20	-50.65	Peak	
8	5857.0000	61.21	10.04	71.25	110.24	-38.99	Peak	
9	5877.0000	56.01	10.10	66.11	103.71	-37.60	Peak	
10	5926.2000	50.01	10.26	60.27	68.20	-7.93	Peak	

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

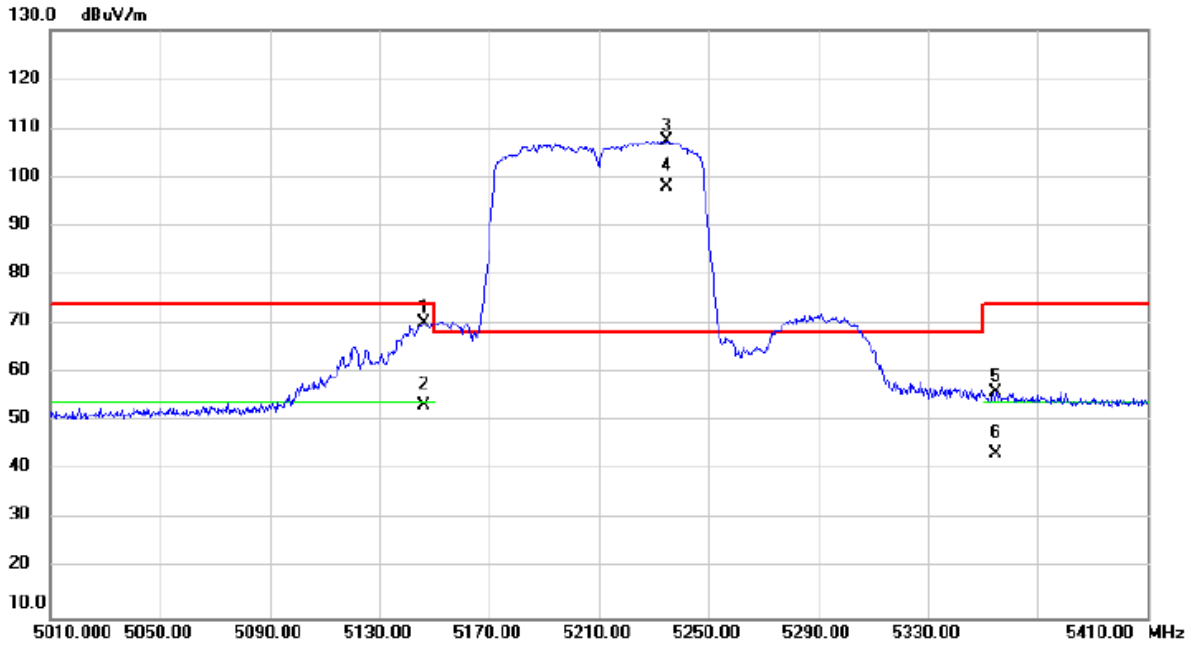
Test Mode	IEEE 802.11ac (VHT40)	Test Date	2025/7/21
Test Frequency	5795MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5647.8000	50.29	9.34	59.63	68.20	-8.57	Peak	
2	5697.4000	61.24	9.51	70.75	103.28	-32.53	Peak	
3	5714.2000	63.20	9.56	72.76	109.18	-36.42	Peak	
4	5723.5330	66.59	9.59	76.18	118.86	-42.68	Peak	
5	5800.2000	106.77	9.85	116.62	122.20	-5.58	Peak	No Limit
6	5800.2000	98.14	9.85	107.99	122.20	-14.21	AVG	No Limit
7	5852.0670	72.35	10.02	82.37	117.49	-35.12	Peak	
8	5857.4000	70.65	10.04	80.69	110.13	-29.44	Peak	
9	5879.4000	64.56	10.11	74.67	101.93	-27.26	Peak	
10 *	5935.0000	52.93	10.29	63.22	68.20	-4.98	Peak	

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

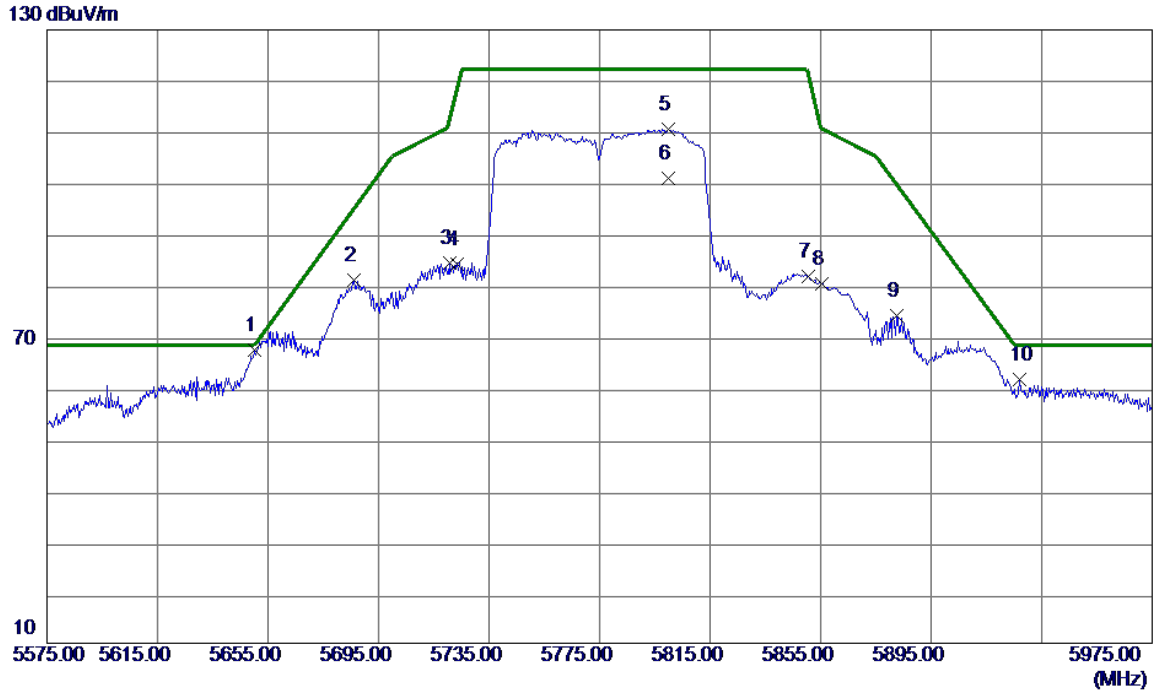
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2025/7/21
Test Frequency	5210MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5146.400	61.60	8.62	70.22	74.00	-3.78	peak	
2		5146.400	44.88	8.62	53.50	54.00	-0.50	AVG	
3	*	5234.800	98.77	8.68	107.45	68.20	39.25	peak	No Limit
4	X	5234.800	89.36	8.68	98.04	68.20	29.84	AVG	No Limit
5		5354.800	47.41	8.76	56.17	74.00	-17.83	peak	
6		5354.800	34.79	8.76	43.55	54.00	-10.45	AVG	

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

Test Mode	IEEE 802.11ac (VHT80)	Test Date	2025/7/21
Test Frequency	5775MHz	Polarization	Vertical
Temp	25°C	Hum.	65%

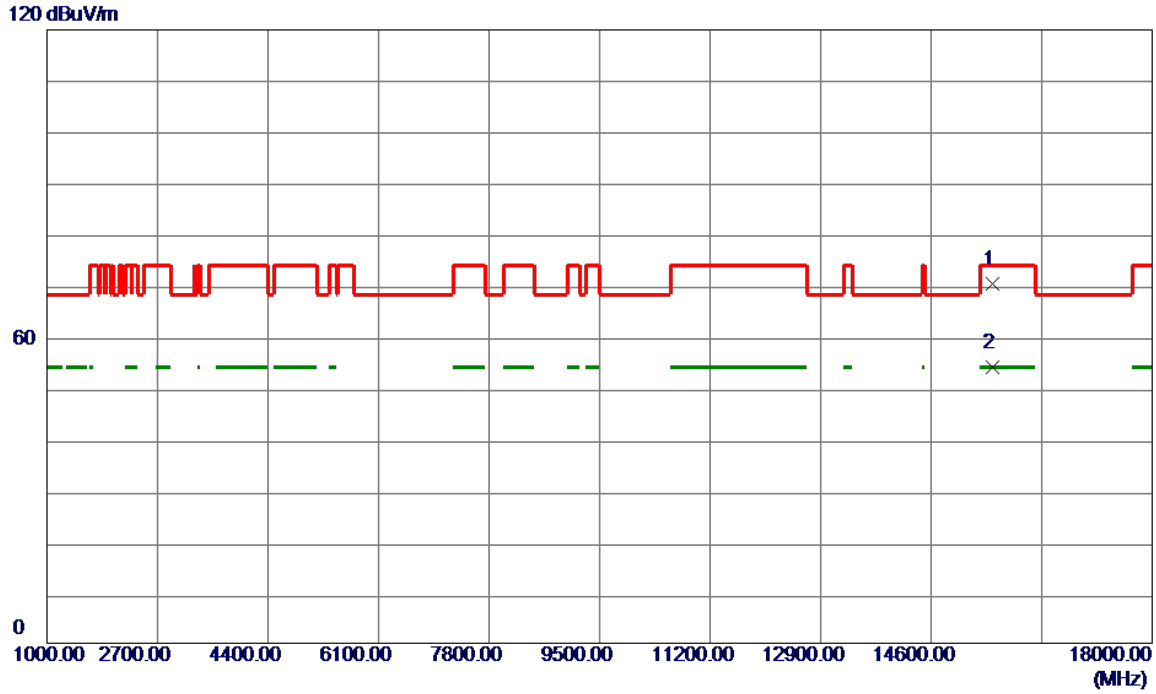


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5650.2000	58.08	9.35	67.43	68.35	-0.92	Peak	
2	5686.2000	71.68	9.47	81.15	95.02	-13.87	Peak	
3	5720.6000	74.72	9.58	84.30	112.17	-27.87	Peak	
4	5723.2670	74.47	9.59	84.06	118.25	-34.19	Peak	
5	5799.8000	100.66	9.85	110.51	122.20	-11.69	Peak	No Limit
6	5799.8000	91.21	9.85	101.06	122.20	-21.14	AVG	No Limit
7	5850.7330	71.67	10.01	81.68	120.53	-38.85	Peak	
8	5855.4000	70.34	10.03	80.37	110.69	-30.32	Peak	
9	5882.6000	63.87	10.12	73.99	99.56	-25.57	Peak	
10	5927.0000	51.44	10.27	61.71	68.20	-6.49	Peak	

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

Harmonic

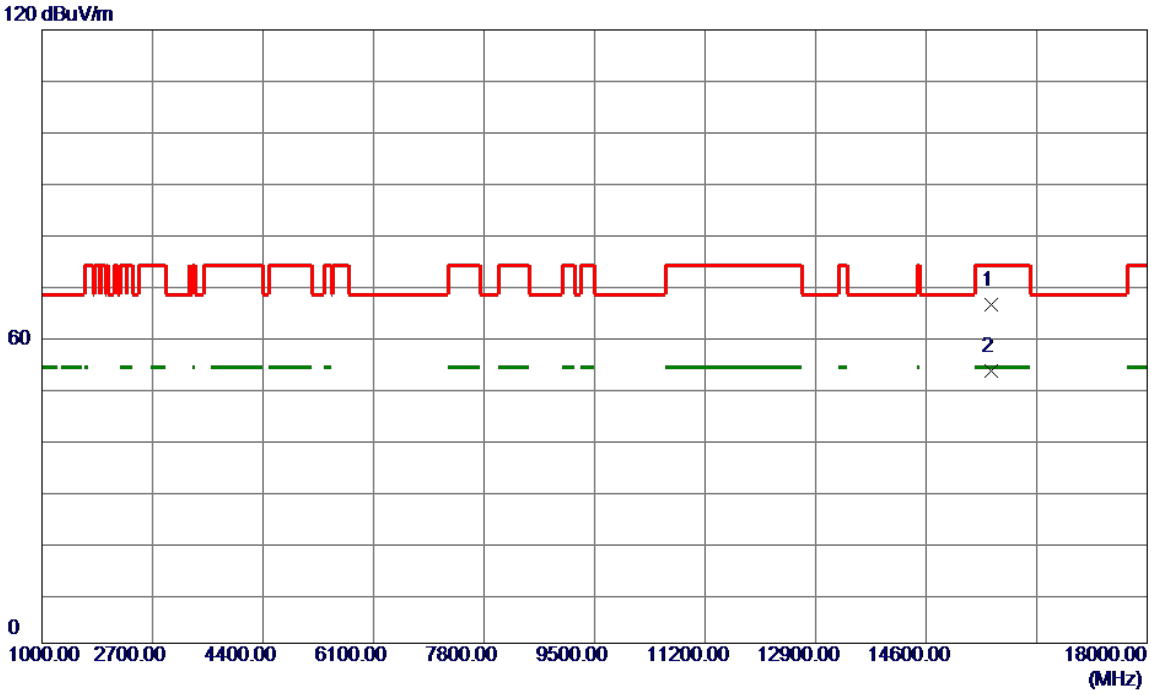
Test Mode	IEEE 802.11a	Test Date	2025/7/21
Test Frequency	5180MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15540.0000	62.20	8.21	70.41	74.00	-3.59	Peak	
2 *	15540.0000	45.77	8.21	53.98	54.00	-0.02	AVG	

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

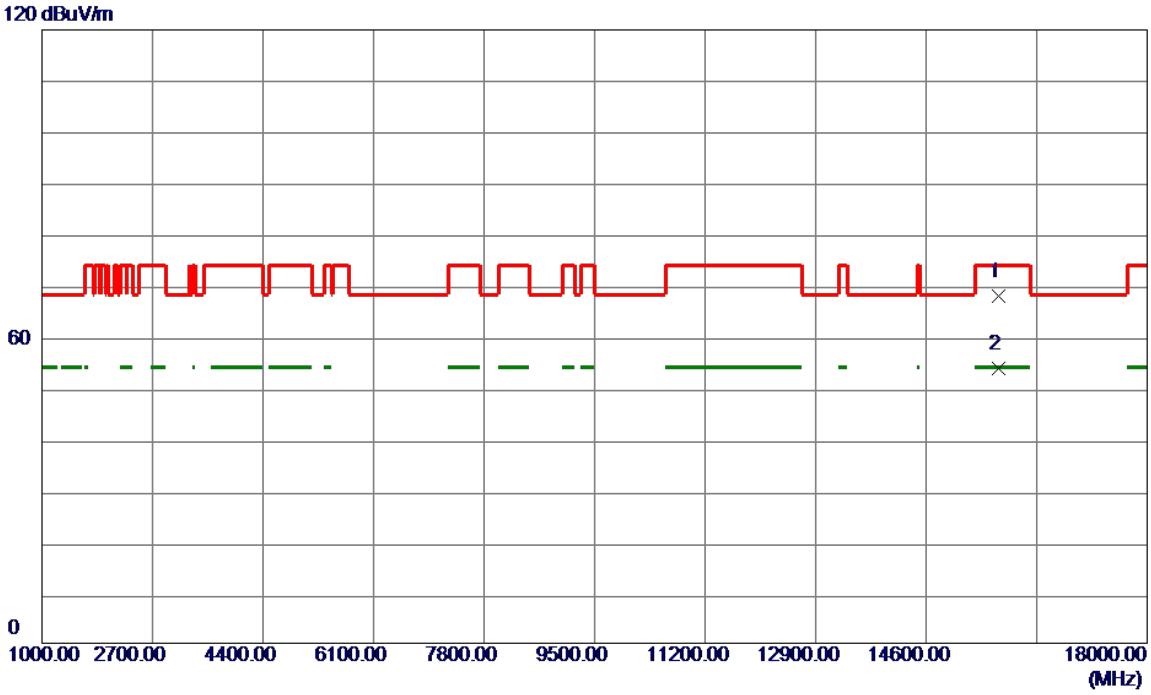
Test Mode	IEEE 802.11a	Test Date	2025/7/21
Test Frequency	5200MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15600.0000	57.97	8.20	66.17	74.00	-7.83	Peak	
2 *	15600.0000	44.97	8.20	53.17	54.00	-0.83	AVG	

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

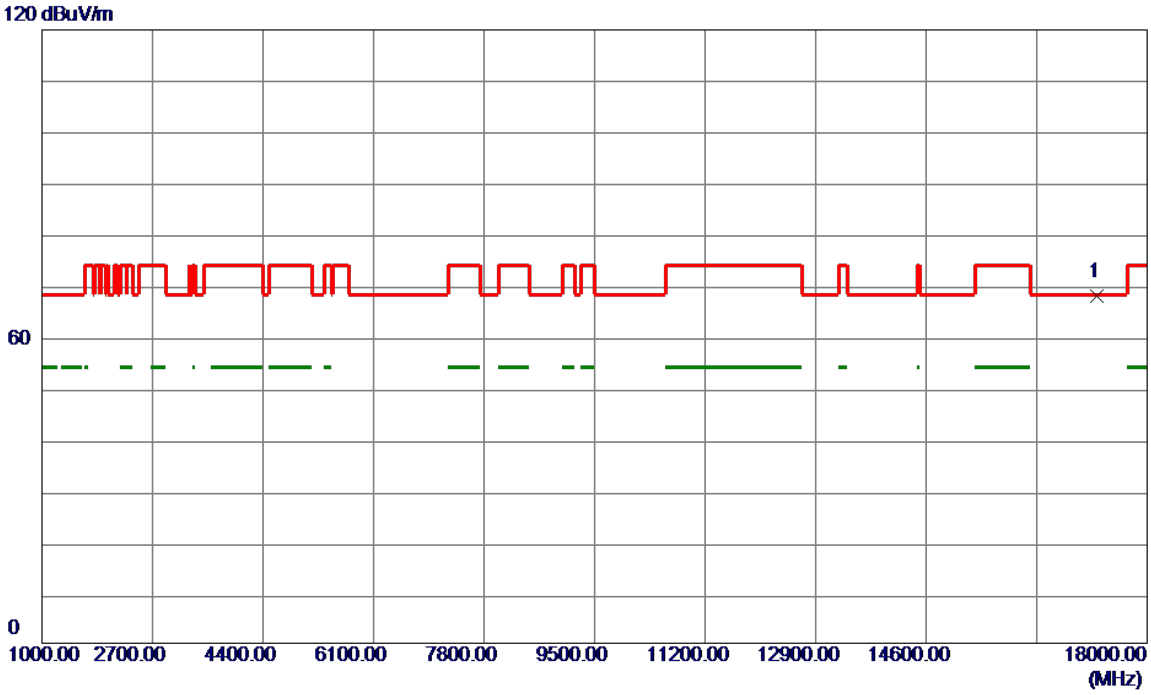
Test Mode	IEEE 802.11a	Test Date	2025/7/21
Test Frequency	5240MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15722.0000	59.82	8.20	68.02	74.00	-5.98	Peak	
2 *	15722.0000	45.66	8.20	53.86	54.00	-0.14	AVG	

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

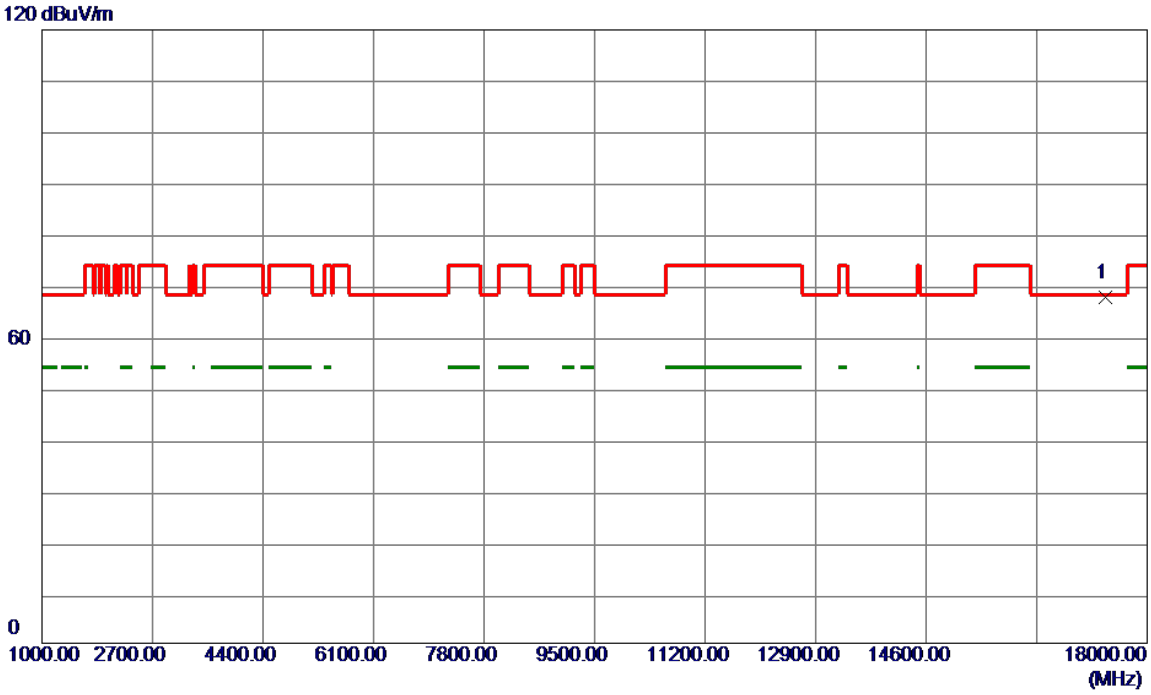
Test Mode	IEEE 802.11a	Test Date	2025/7/21
Test Frequency	5745MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17235.0000	60.13	7.75	67.88	68.20	-0.32	Peak	

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

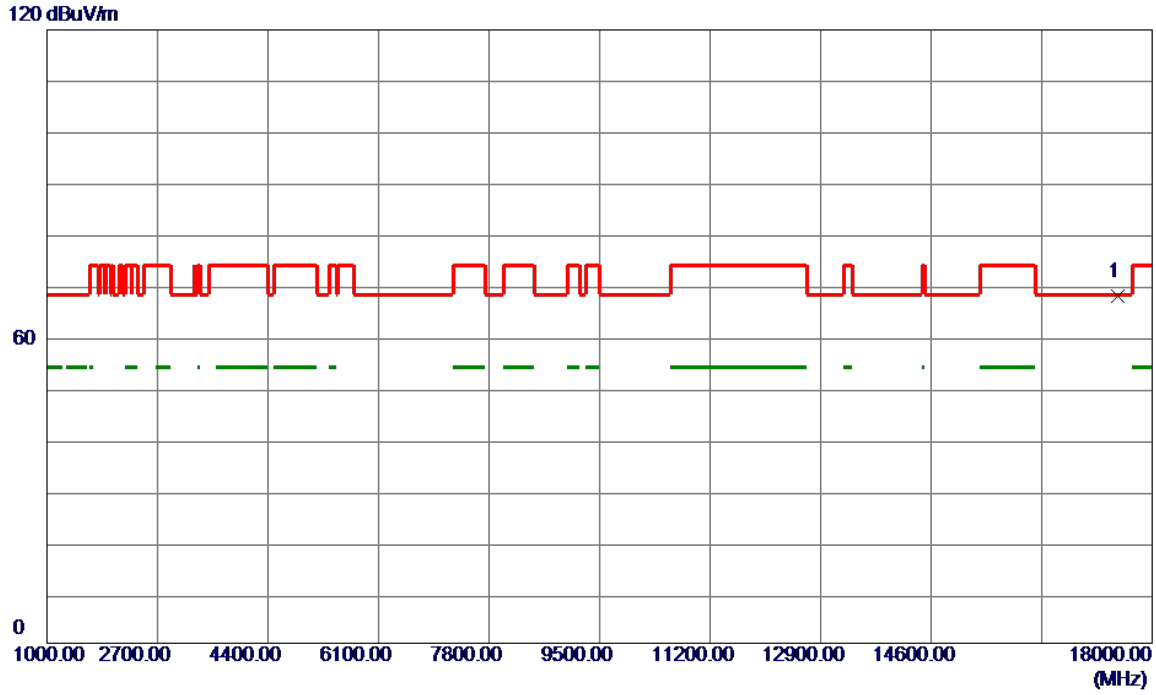
Test Mode	IEEE 802.11a	Test Date	2025/7/21
Test Frequency	5785MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17354.0000	59.94	7.80	67.74	68.20	-0.46	Peak	

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

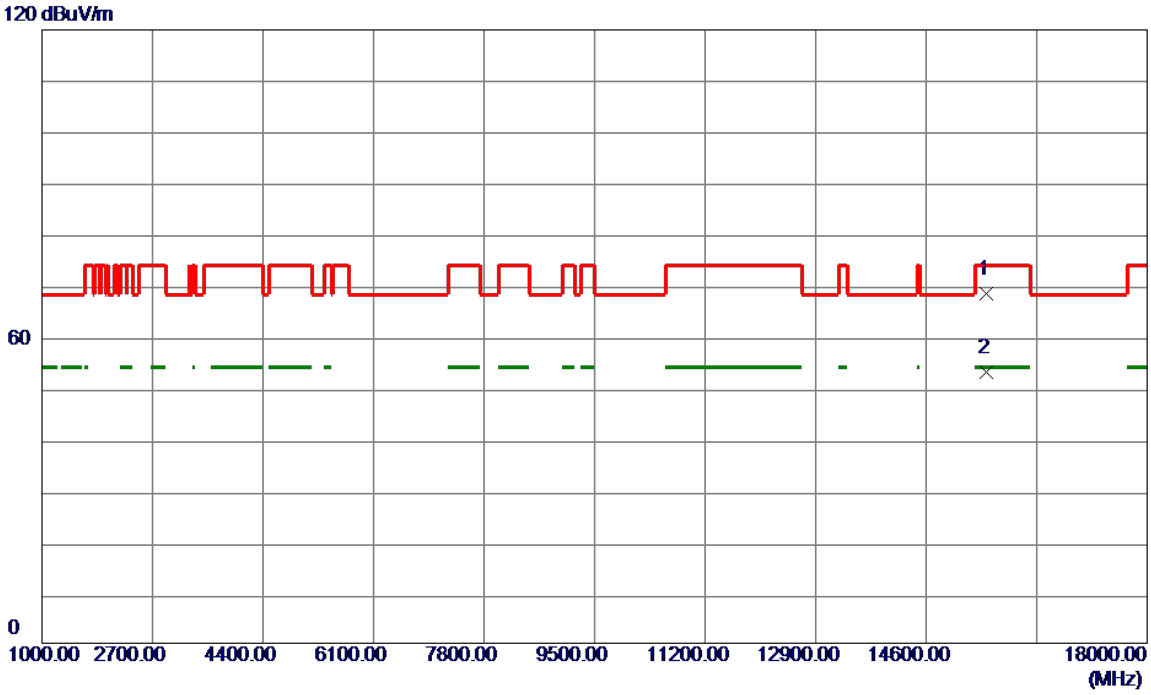
Test Mode	IEEE 802.11a	Test Date	2025/7/21
Test Frequency	5825MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17473.0000	59.96	7.86	67.82	68.20	-0.38	Peak	

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

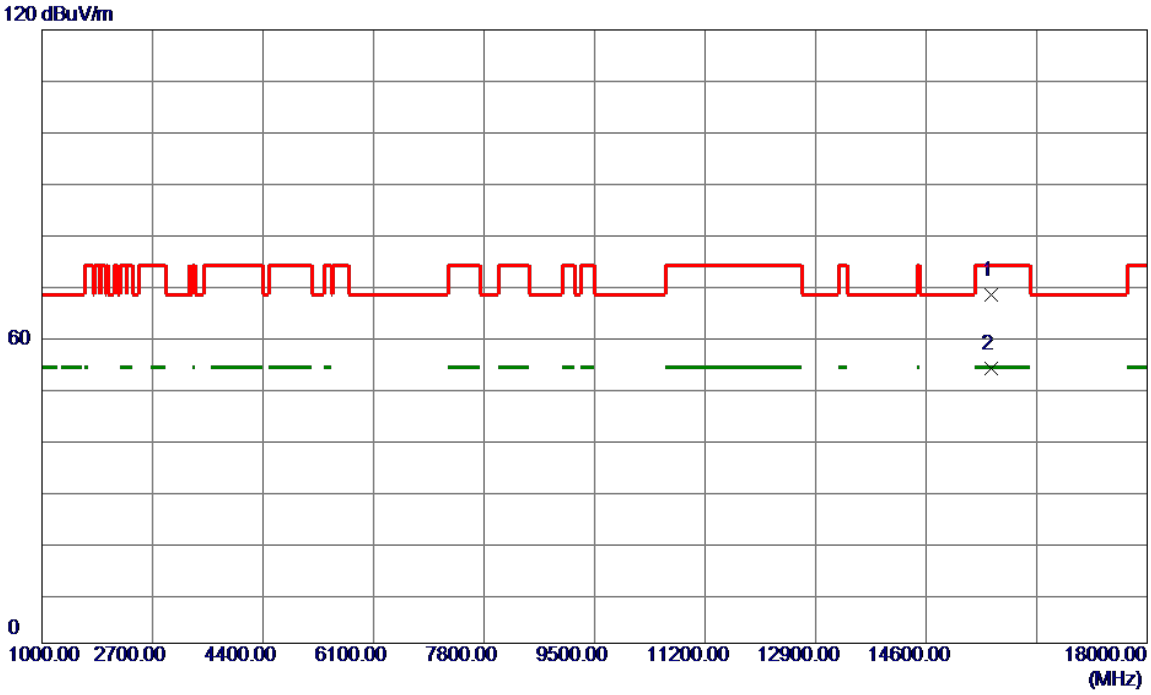
Test Mode	IEEE 802.11ac (VHT20)	Test Date	2025/7/21
Test Frequency	5180MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15535.0000	60.17	8.21	68.38	74.00	-5.62	Peak	
2 *	15535.0000	44.86	8.21	53.07	54.00	-0.93	AVG	

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

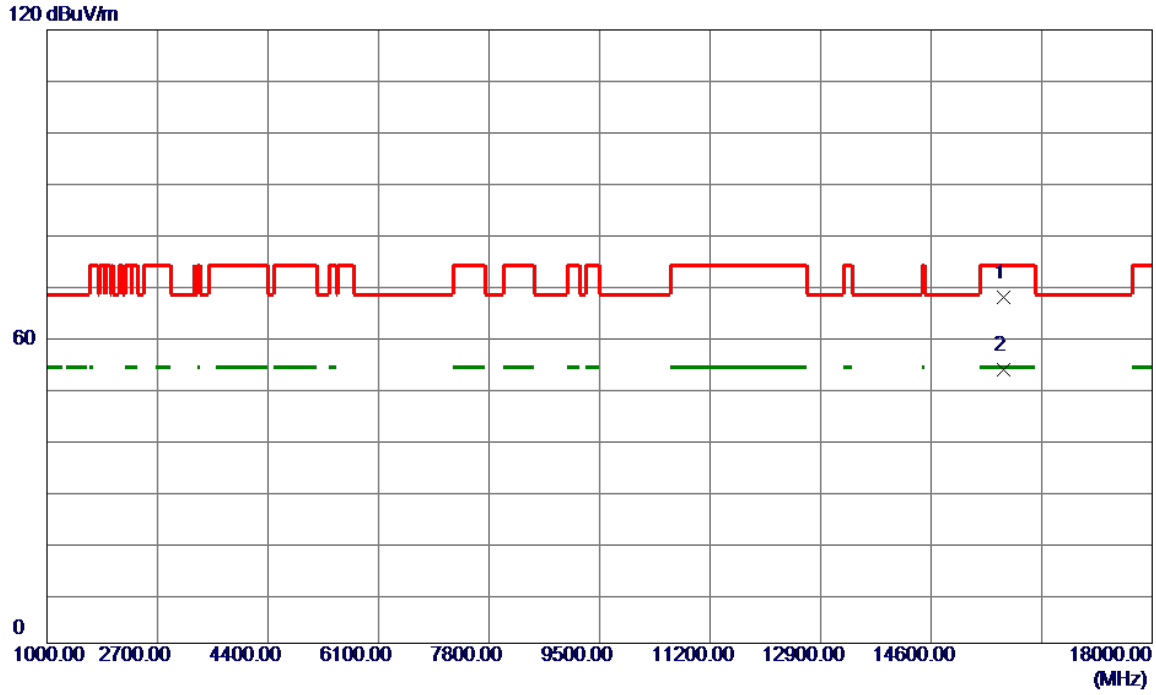
Test Mode	IEEE 802.11ac (VHT20)	Test Date	2025/7/21
Test Frequency	5200MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15603.0000	60.02	8.20	68.22	74.00	-5.78	Peak	
2 *	15603.0000	45.60	8.20	53.80	54.00	-0.20	AVG	

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

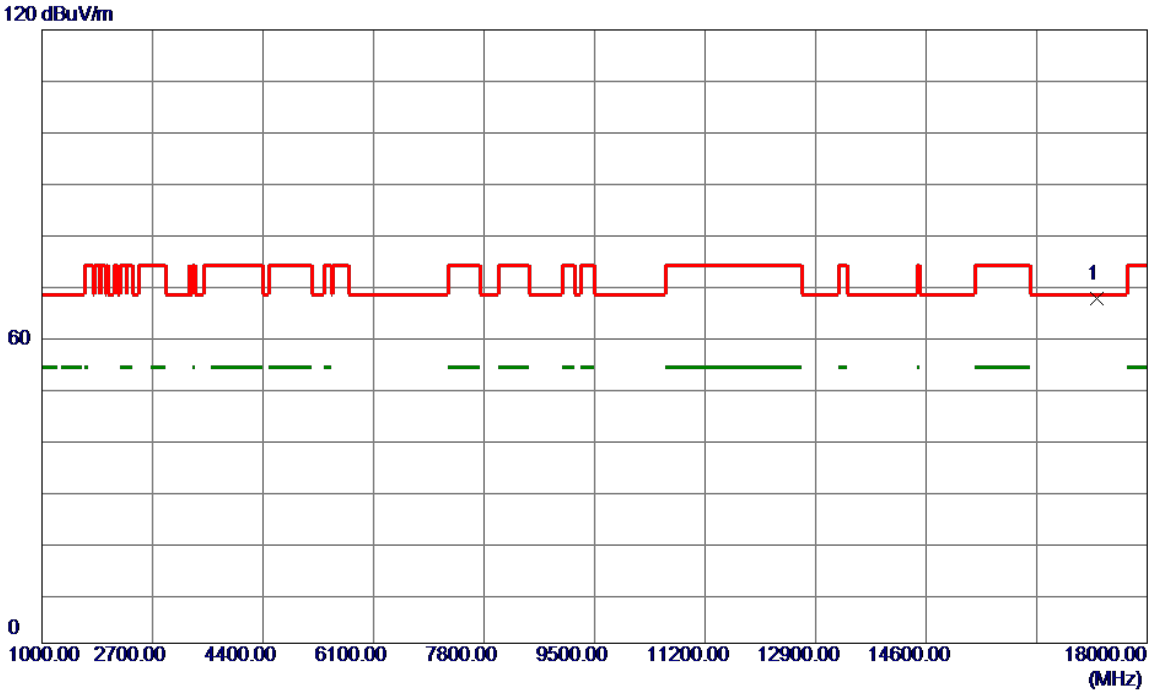
Test Mode	IEEE 802.11ac (VHT20)	Test Date	2025/7/21
Test Frequency	5240MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15722.0000	59.40	8.20	67.60	74.00	-6.40	Peak	
2 *	15722.0000	45.38	8.20	53.58	54.00	-0.42	AVG	

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

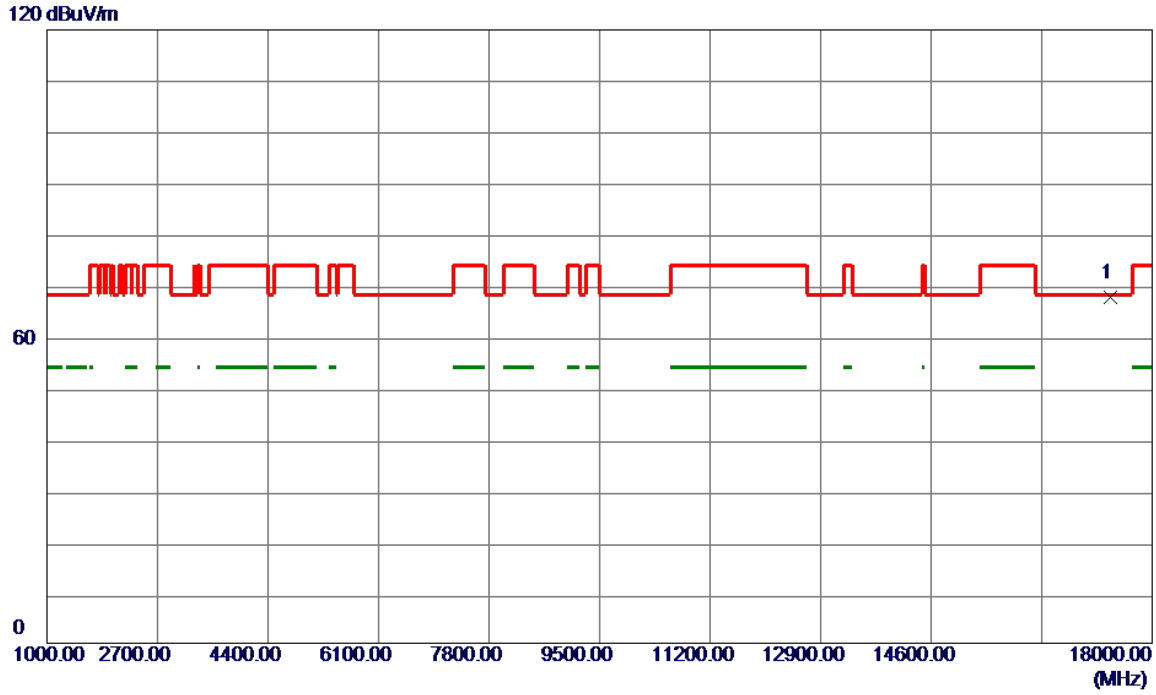
Test Mode	IEEE 802.11ac (VHT20)	Test Date	2025/7/21
Test Frequency	5745MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17218.0000	59.72	7.74	67.46	68.20	-0.74	Peak	

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

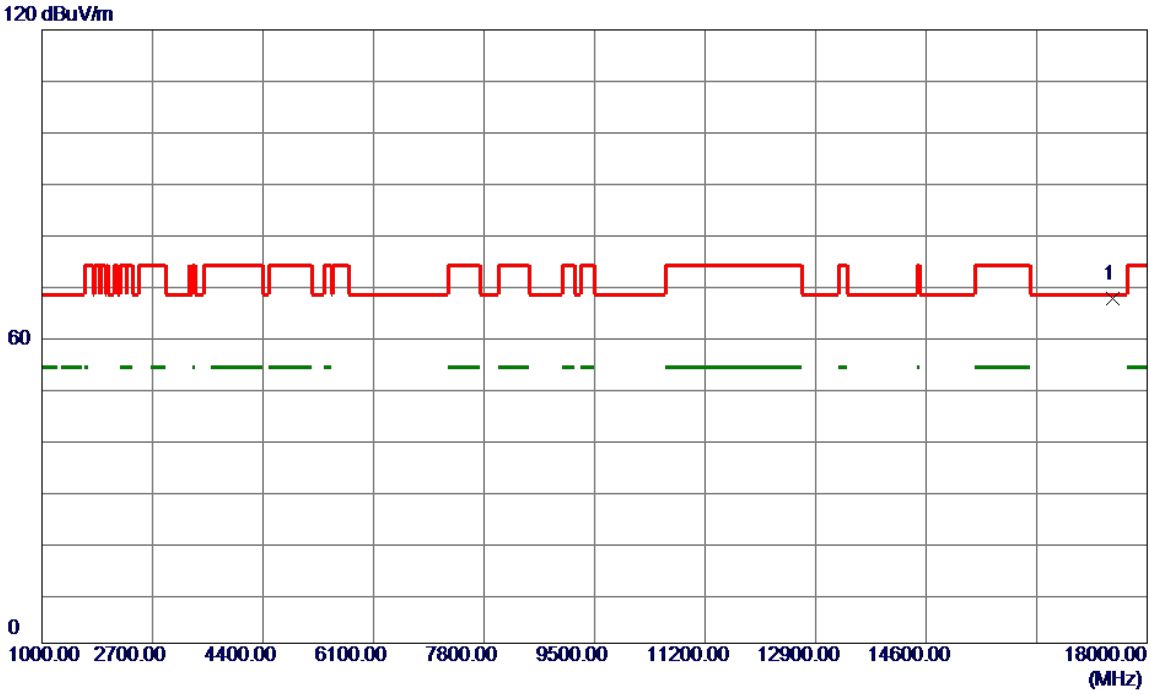
Test Mode	IEEE 802.11ac (VHT20)	Test Date	2025/7/21
Test Frequency	5785MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17354.0000	59.83	7.80	67.63	68.20	-0.57	Peak	

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

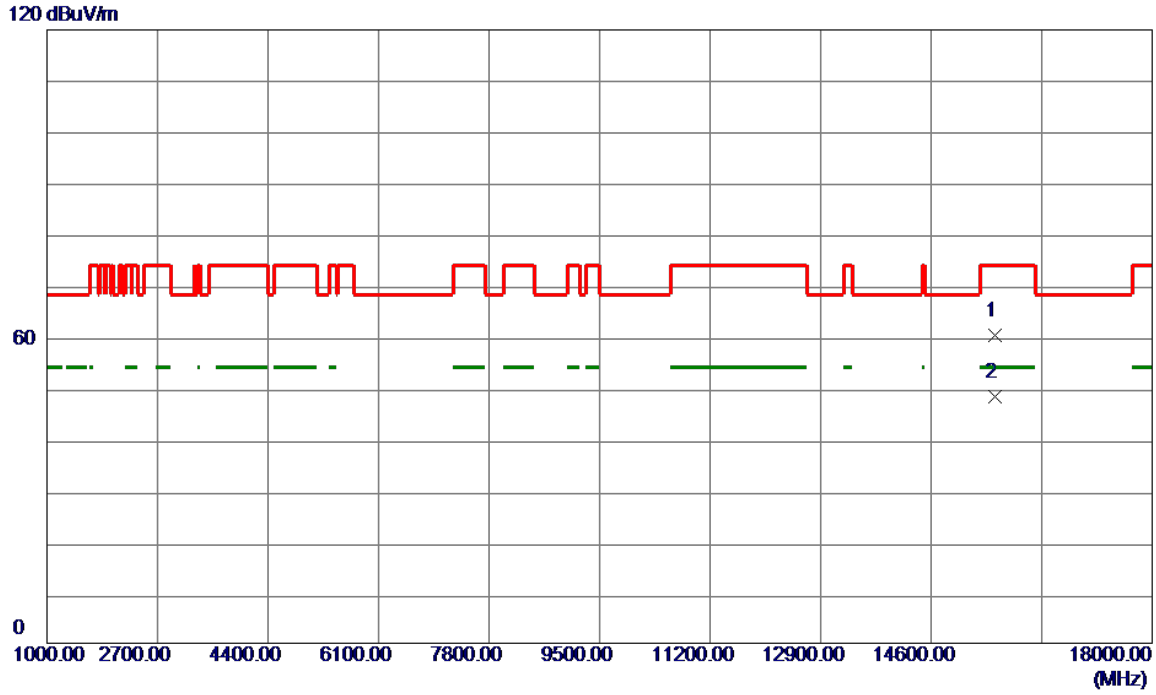
Test Mode	IEEE 802.11ac (VHT20)	Test Date	2025/7/21
Test Frequency	5825MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17473.0000	59.58	7.86	67.44	68.20	-0.76	Peak	

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

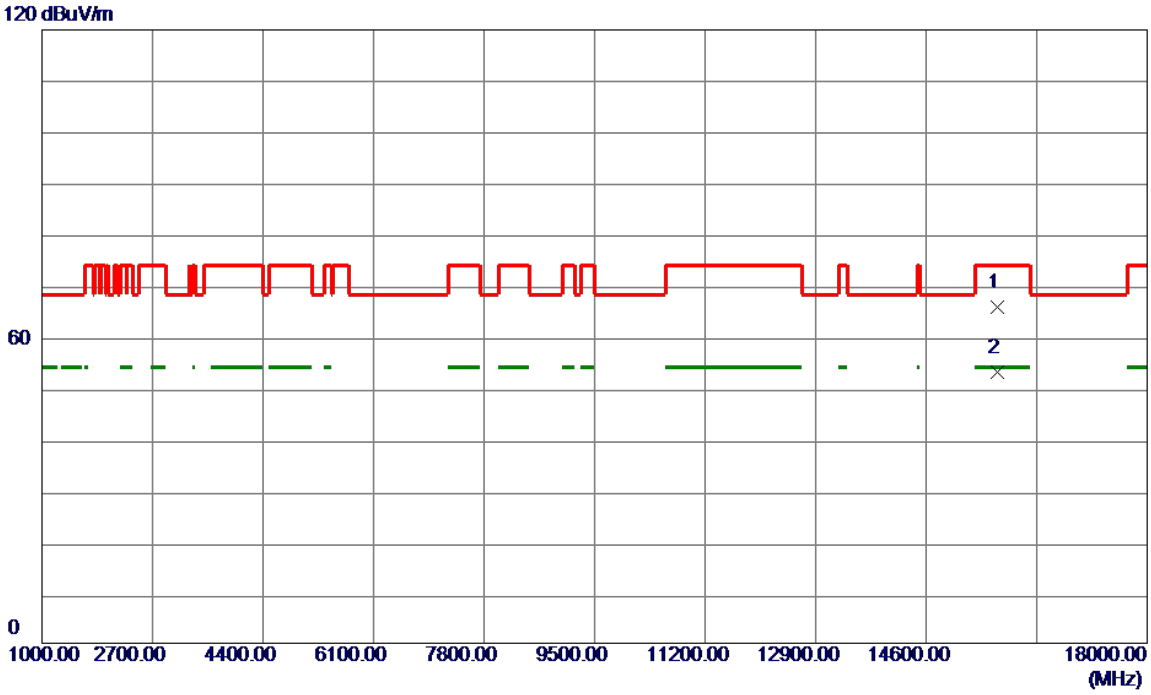
Test Mode	IEEE 802.11ac (VHT40)	Test Date	2025/7/21
Test Frequency	5190MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15586.0000	51.98	8.20	60.18	74.00	-13.82	Peak	
2 *	15586.0000	40.14	8.20	48.34	54.00	-5.66	AVG	

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

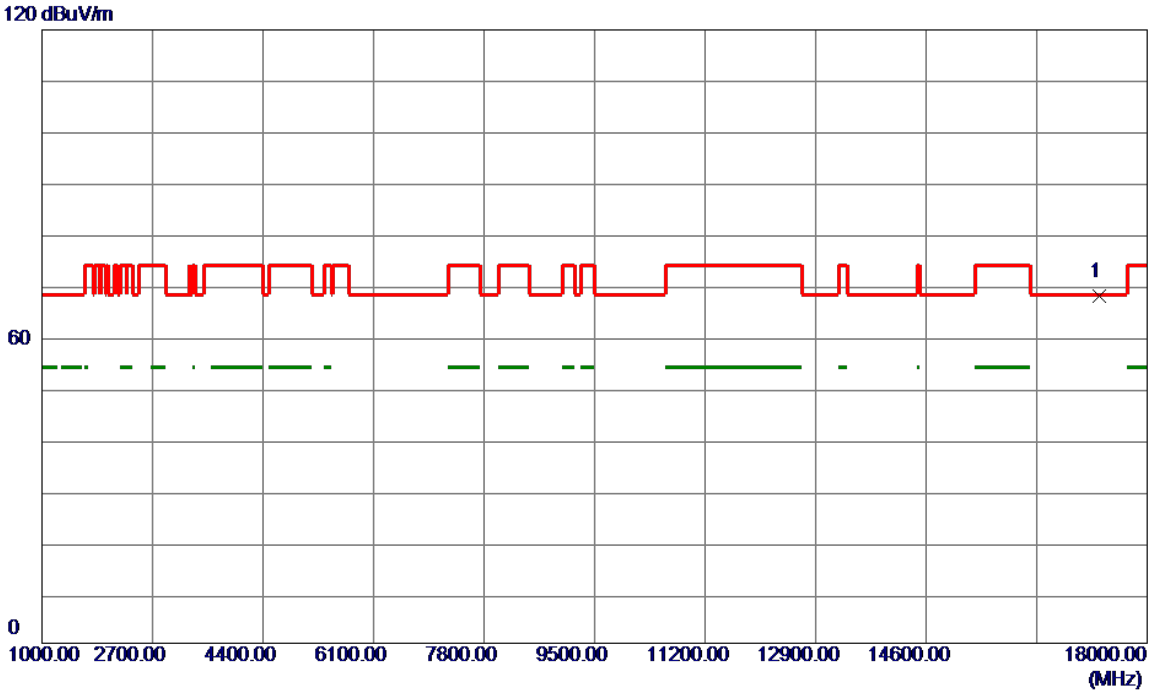
Test Mode	IEEE 802.11ac (VHT40)	Test Date	2025/7/21
Test Frequency	5230MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15688.0000	57.50	8.20	65.70	74.00	-8.30	Peak	
2 *	15688.0000	44.91	8.20	53.11	54.00	-0.89	AVG	

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

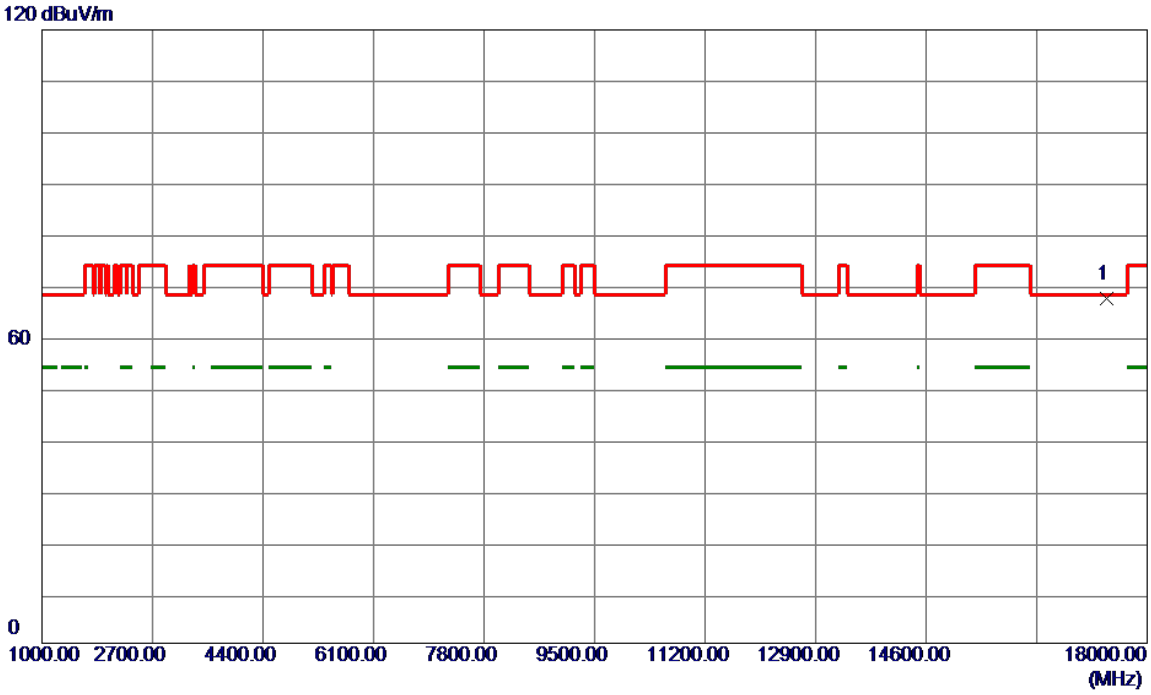
Test Mode	IEEE 802.11ac (VHT40)	Test Date	2025/7/21
Test Frequency	5755MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17269.0000	60.06	7.76	67.82	68.20	-0.38	Peak	

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

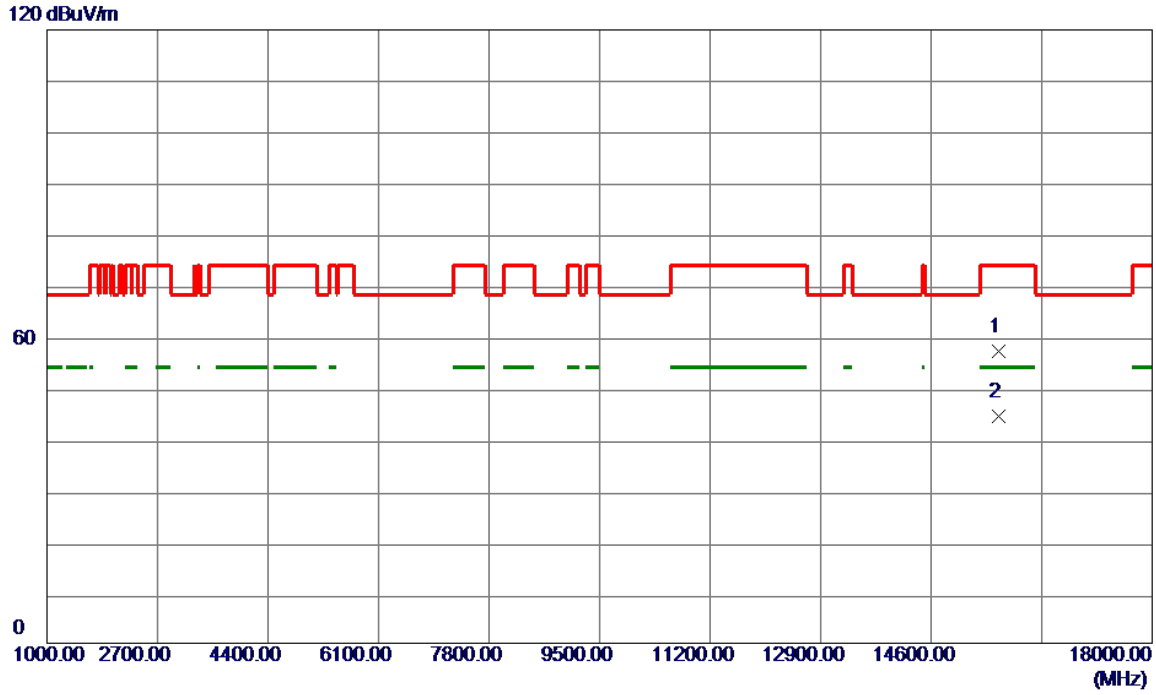
Test Mode	IEEE 802.11ac (VHT40)	Test Date	2025/7/21
Test Frequency	5795MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17371.0000	59.69	7.81	67.50	68.20	-0.70	Peak	

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

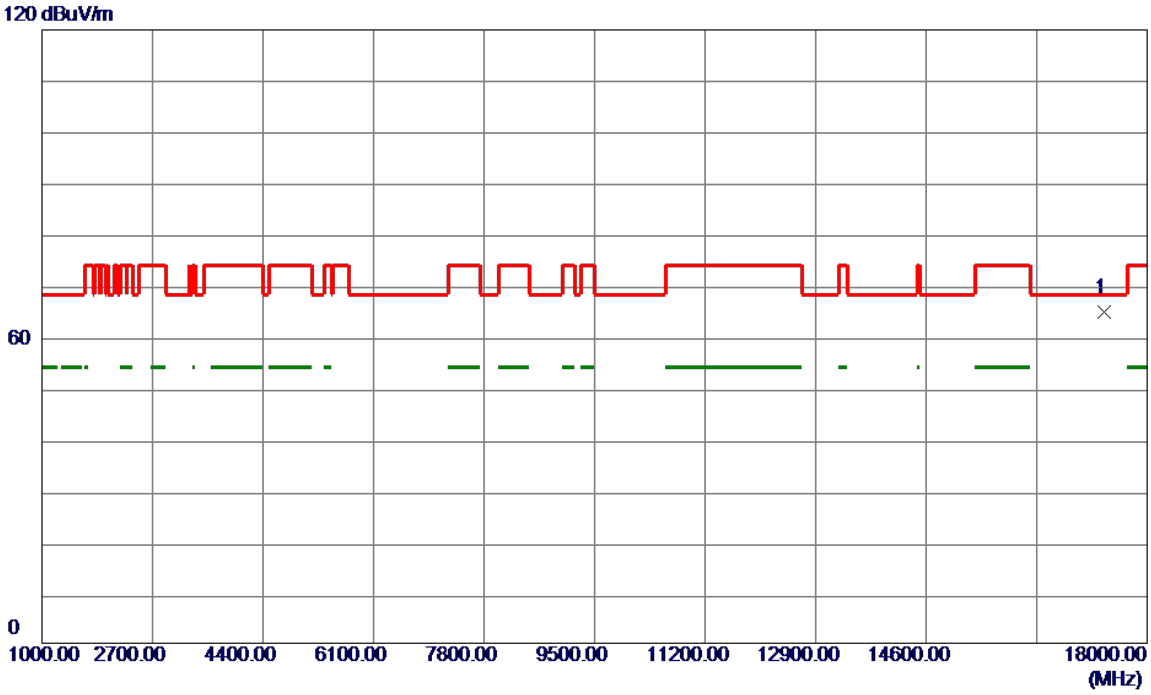
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2025/7/21
Test Frequency	5210MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15630.0000	48.95	8.20	57.15	74.00	-16.85	Peak	
2 *	15630.0000	36.16	8.20	44.36	54.00	-9.64	AVG	

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

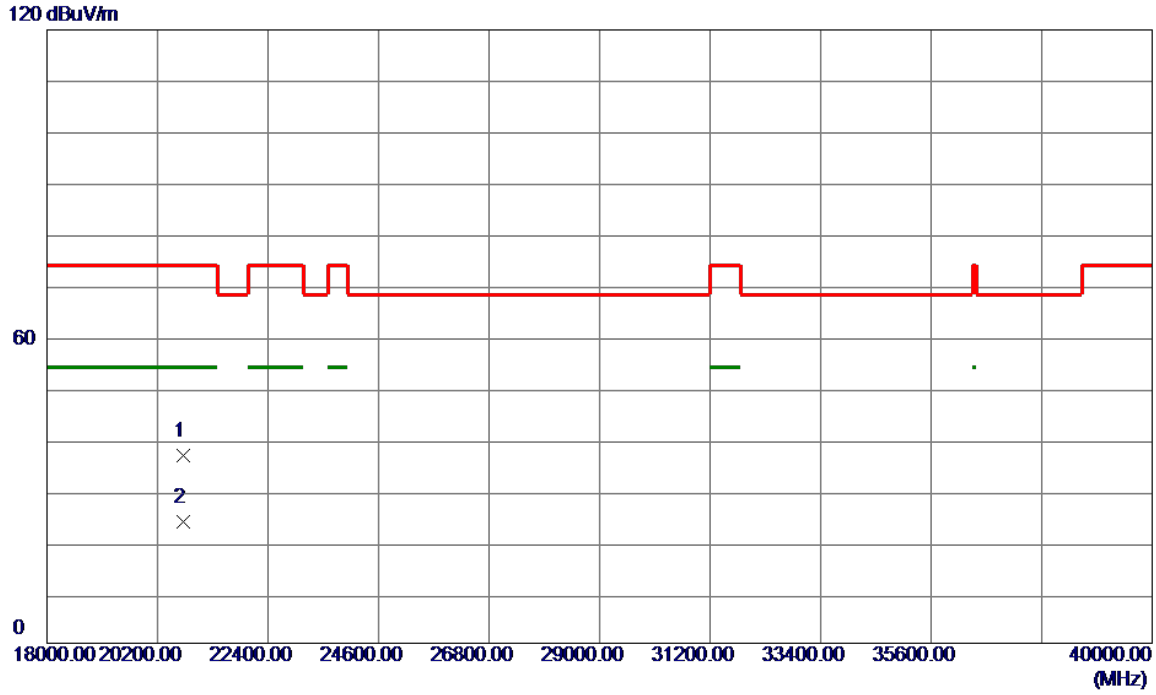
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2025/7/21
Test Frequency	5775MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17337.0000	57.06	7.80	64.86	68.20	-3.34	Peak	

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

Test Mode	IEEE 802.11ac (VHT80)	Test Date	2025/7/21
Test Frequency	5210MHz	Polarization	Vertical
Temp	25°C	Hum.	65%



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	20720.0000	45.59	-8.89	36.70	74.00	-37.30	Peak	
2 *	20720.0000	32.76	-8.89	23.87	54.00	-30.13	AVG	

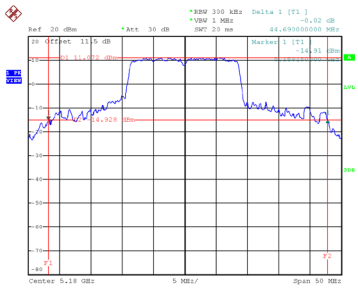
REMARK:
(1) Measurement Value = Reading Level + Correct Factor
(2) Margin Level = Measurement Value - Limit Value

APPENDIX D- BANDWIDTH

Test Mode	UNII-1_TX A Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
36	5180	44.690	22.300
40	5200	43.750	23.000
48	5240	44.450	24.500

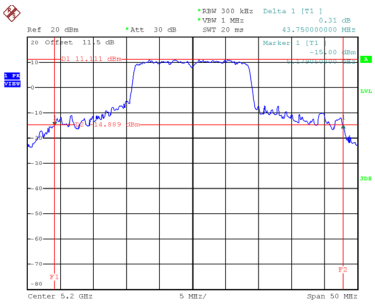
CH36



Date: 16.JUL.2025 20:10:56

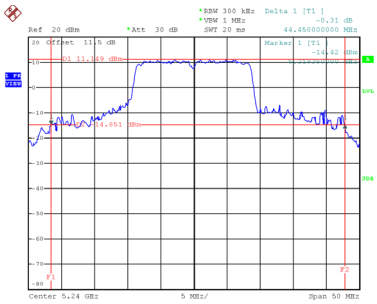
CH40

26 dB Bandwidth

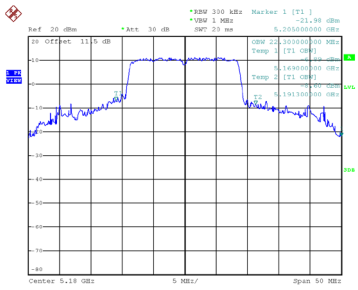


Date: 16.JUL.2025 20:11:52

CH48

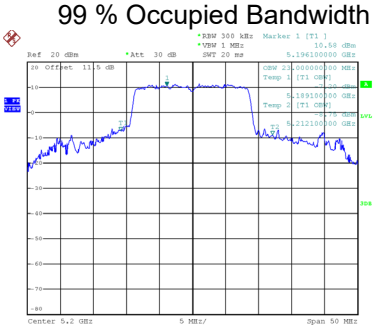


Date: 16.JUL.2025 20:12:40

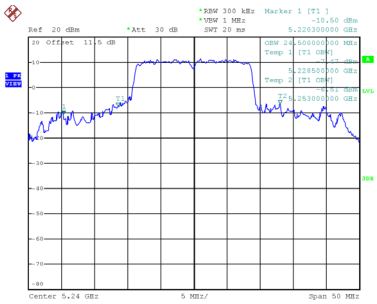


Date: 16.JUL.2025 20:10:43

99 % Occupied Bandwidth



Date: 16.JUL.2025 20:11:38

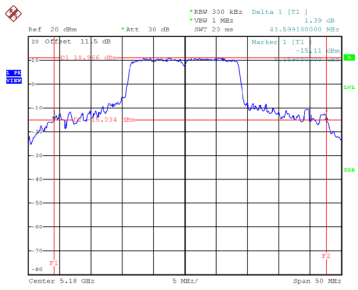


Date: 16.JUL.2025 20:12:28

Test Mode	UNII-1_TX AC(VHT20) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
36	5180	43.599	22.200
40	5200	43.509	20.200
48	5240	44.299	23.300

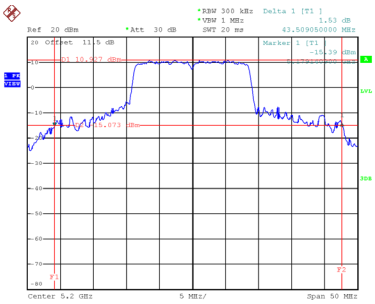
CH36



Date: 16.JUL.2025 23:19:25

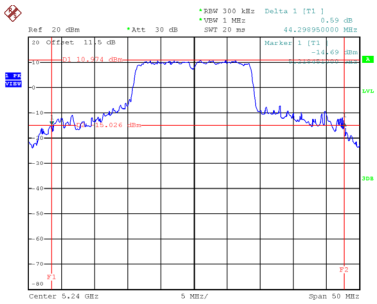
CH40

26 dB Bandwidth

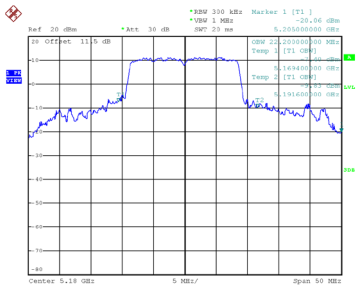


Date: 16.JUL.2025 23:20:17

CH48

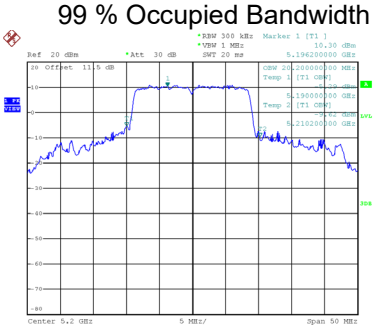


Date: 16.JUL.2025 23:21:06

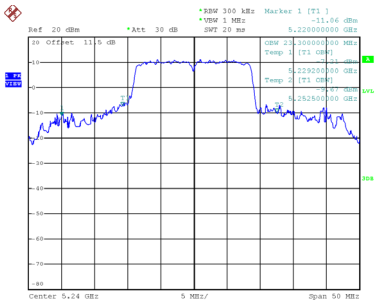


Date: 16.JUL.2025 23:19:12

99 % Occupied Bandwidth



Date: 16.JUL.2025 23:20:03

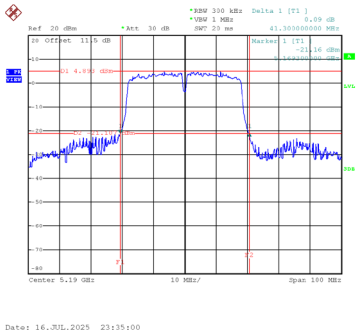


Date: 16.JUL.2025 23:20:54

Test Mode	UNII-1_TX AC(VHT40) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
38	5190	41.300	54.800
46	5230	57.599	60.600

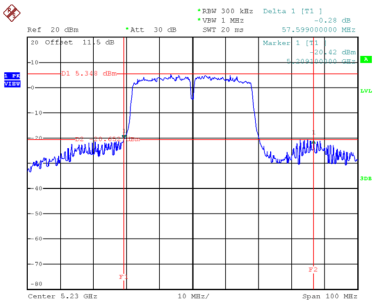
CH38



Date: 16.JUL.2025 23:35:00

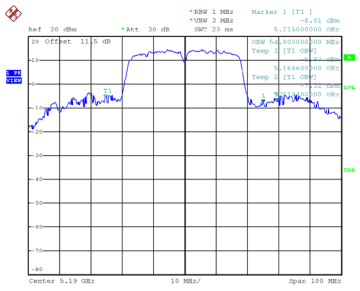
CH46

26 dB Bandwidth

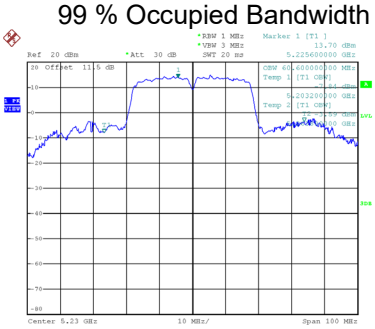


Date: 16.JUL.2025 23:36:11

99 % Occupied Bandwidth



Date: 16.JUL.2025 23:24:39



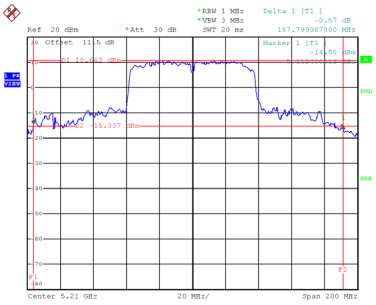
Date: 16.JUL.2025 23:25:51

Test Mode	UNII-1_TX AC(VHT80) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
42	5210	187.800	76.000

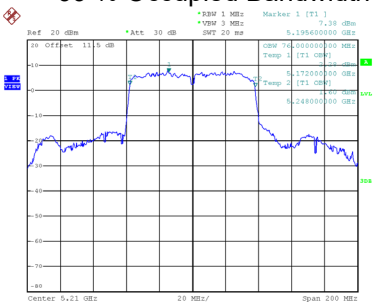
CH42

26 dB Bandwidth



Date: 16.JUL.2025 23:29:57

99 % Occupied Bandwidth

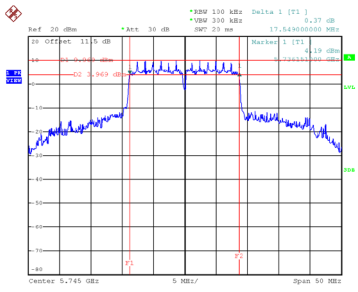


Date: 16.JUL.2025 23:33:17

Test Mode	UNII-3_TX A Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
149	5745	17.549	26.800	0.5	Complies
157	5785	17.650	26.800	0.5	Complies
165	5825	17.650	28.200	0.5	Complies

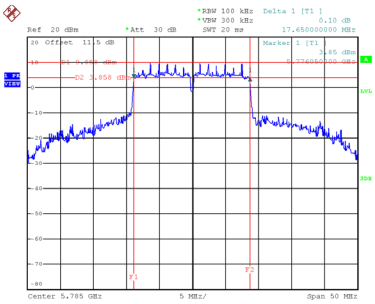
CH149



Date: 16.JUL.2025 20:15:41

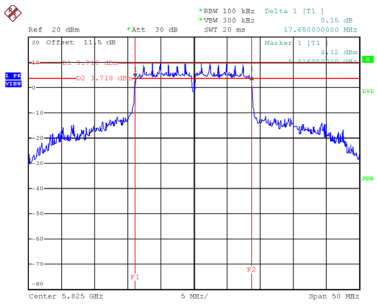
CH157

6 dB Bandwidth



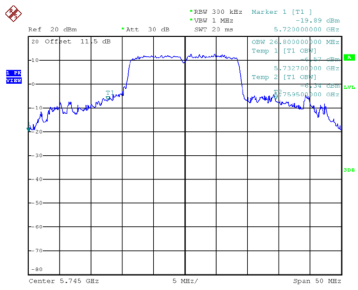
Date: 16.JUL.2025 23:17:30

CH165



Date: 16.JUL.2025 23:18:37

99 % Occupied Bandwidth



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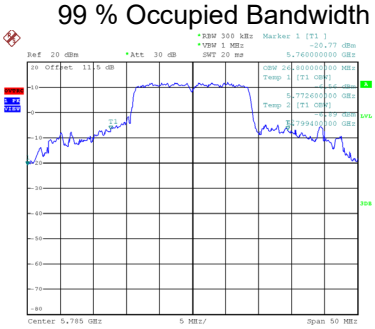
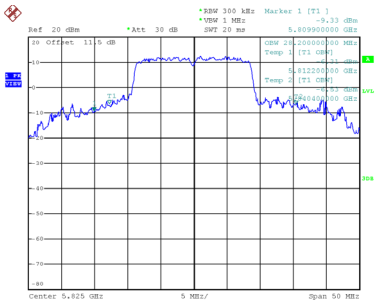


Date: 16.JUL.2025 23:17:03

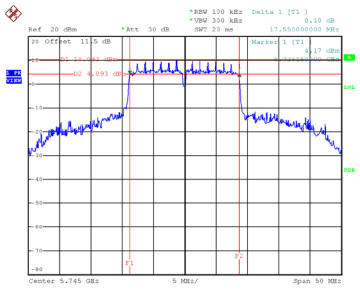


Date: 16.JUL.2025 23:18:10

Test Mode	UNII-3_TX AC(VHT20) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
149	5745	17.550	27.000	0.5	Complies
157	5785	17.549	28.700	0.5	Complies
165	5825	17.650	28.900	0.5	Complies

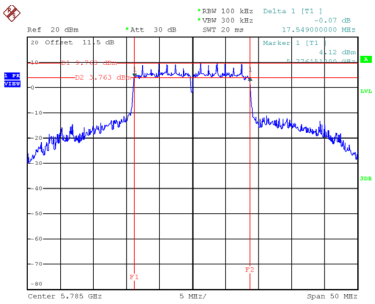
CH149



Date: 16.JUL.2025 23:22:10

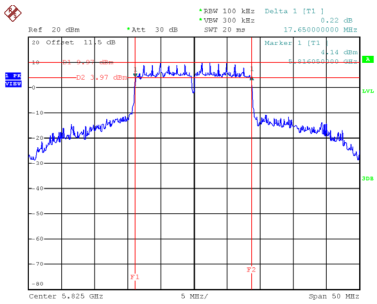
CH157

6 dB Bandwidth



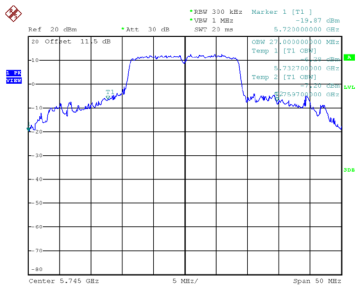
Date: 16.JUL.2025 23:23:12

CH165



Date: 16.JUL.2025 23:24:10

99 % Occupied Bandwidth



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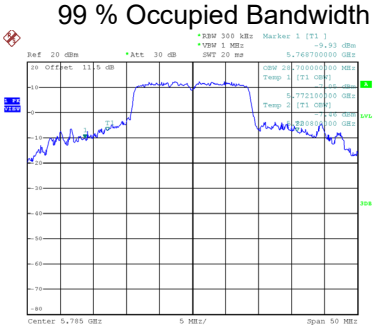
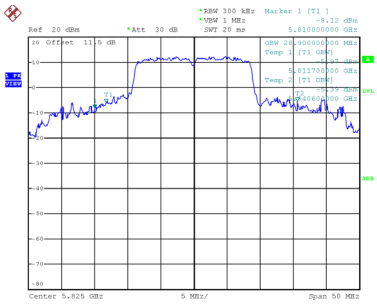


Date: 16.JUL.2025 23:22:45

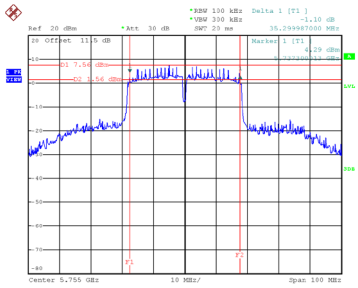


Date: 16.JUL.2025 23:23:43

Test Mode	UNII-3_TX AC(VHT40) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
151	5755	35.300	62.800	0.5	Complies
159	5795	36.200	64.200	0.5	Complies

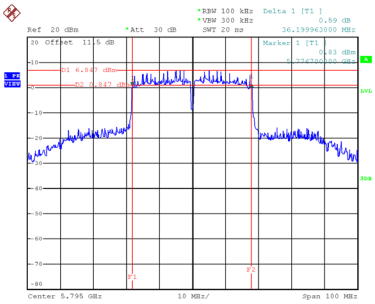
CH151



Date: 16.JUL.2025 23:27:49

CH159

6 dB Bandwidth



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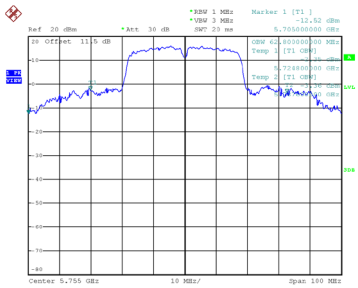
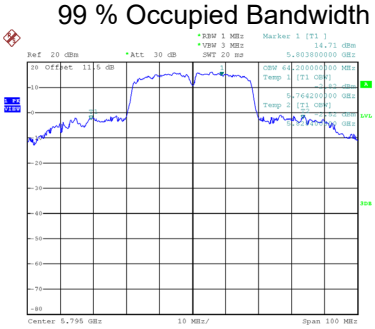


Date: 16.JUL.2025 23:27:12

99 % Occupied Bandwidth



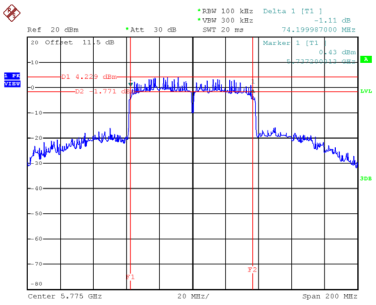
Date: 16.JUL.2025 23:28:23

Test Mode	UNII-3_TX AC(VHT80) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
155	5775	74.200	75.600	0.5	Complies

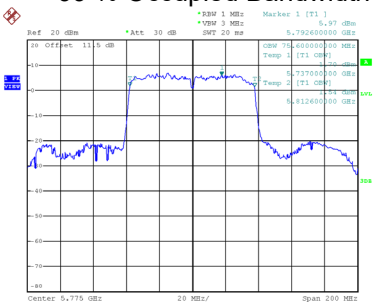
CH155

6 dB Bandwidth



Date: 16.JUL.2025 23:31:10

99 % Occupied Bandwidth



Date: 16.JUL.2025 23:31:56

APPENDIX E- MAXIMUM OUTPUT POWER

Test Mode	UNII-1_TX A Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	18.30	0.10	18.40	30.00	1.0000	Complies
40	5200	18.68	0.10	18.78	30.00	1.0000	Complies
48	5240	18.76	0.10	18.86	30.00	1.0000	Complies

Test Mode	UNII-1_TX A Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	18.67	0.10	18.77	30.00	1.0000	Complies
40	5200	18.50	0.10	18.60	30.00	1.0000	Complies
48	5240	18.65	0.10	18.75	30.00	1.0000	Complies

Test Mode	UNII-1_TX A Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	21.60	30.00	1.0000	Complies
40	5200	21.70	30.00	1.0000	Complies
48	5240	21.82	30.00	1.0000	Complies

Test Mode	UNII-1_TX AC(VHT20) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	18.92	0.11	19.03	30.00	1.0000	Complies
40	5200	18.91	0.11	19.02	30.00	1.0000	Complies
48	5240	18.92	0.11	19.03	30.00	1.0000	Complies

Test Mode	UNII-1_TX AC(VHT20) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	18.79	0.11	18.90	30.00	1.0000	Complies
40	5200	18.57	0.11	18.68	30.00	1.0000	Complies
48	5240	18.51	0.11	18.62	30.00	1.0000	Complies

Test Mode	UNII-1_TX AC(VHT20) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	21.97	30.00	1.0000	Complies
40	5200	21.86	30.00	1.0000	Complies
48	5240	21.84	30.00	1.0000	Complies

Test Mode	UNII-1_TX AC(VHT40) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	20.54	0.21	20.75	30.00	1.0000	Complies
46	5230	20.37	0.21	20.58	30.00	1.0000	Complies

Test Mode	UNII-1_TX AC(VHT40) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	20.70	0.21	20.91	30.00	1.0000	Complies
46	5230	20.55	0.21	20.76	30.00	1.0000	Complies

Test Mode	UNII-1_TX AC(VHT40) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	23.85	30.00	1.0000	Complies
46	5230	23.69	30.00	1.0000	Complies

Test Mode	UNII-1_TX AC(VHT80) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	20.54	0.43	20.97	30.00	1.0000	Complies

Test Mode	UNII-1_TX AC(VHT80) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	20.38	0.43	20.81	30.00	1.0000	Complies

Test Mode	UNII-1_TX AC(VHT80) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	23.90	30.00	1.0000	Complies

Test Mode	UNII-3_TX A Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	18.32	0.10	18.42	30.00	1.0000	Complies
157	5785	18.01	0.10	18.11	30.00	1.0000	Complies
165	5825	18.12	0.10	18.22	30.00	1.0000	Complies

Test Mode	UNII-3_TX A Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	18.40	0.10	18.50	30.00	1.0000	Complies
157	5785	18.53	0.10	18.63	30.00	1.0000	Complies
165	5825	18.09	0.10	18.19	30.00	1.0000	Complies

Test Mode	UNII-3_TX A Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	21.47	30.00	1.0000	Complies
157	5785	21.39	30.00	1.0000	Complies
165	5825	21.22	30.00	1.0000	Complies

Test Mode	UNII-3_TX AC(VHT20) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	18.59	0.11	18.70	30.00	1.0000	Complies
157	5785	18.45	0.11	18.56	30.00	1.0000	Complies
165	5825	18.37	0.11	18.48	30.00	1.0000	Complies

Test Mode	UNII-3_TX AC(VHT20) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	18.87	0.11	18.98	30.00	1.0000	Complies
157	5785	18.34	0.11	18.45	30.00	1.0000	Complies
165	5825	18.56	0.11	18.67	30.00	1.0000	Complies

Test Mode	UNII-3_TX AC(VHT20) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	21.85	30.00	1.0000	Complies
157	5785	21.51	30.00	1.0000	Complies
165	5825	21.58	30.00	1.0000	Complies

Test Mode	UNII-3_TX AC(VHT40) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	19.35	0.21	19.56	30.00	1.0000	Complies
159	5795	19.83	0.21	20.04	30.00	1.0000	Complies

Test Mode	UNII-3_TX AC(VHT40) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	19.27	0.21	19.48	30.00	1.0000	Complies
159	5795	19.68	0.21	19.89	30.00	1.0000	Complies

Test Mode	UNII-3_TX AC(VHT40) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	22.54	30.00	1.0000	Complies
159	5795	22.98	30.00	1.0000	Complies

Test Mode	UNII-3_TX AC(VHT80) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	19.89	0.43	20.32	30.00	1.0000	Complies

Test Mode	UNII-3_TX AC(VHT80) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	19.67	0.43	20.10	30.00	1.0000	Complies

Test Mode	UNII-3_TX AC(VHT80) Mode_Total

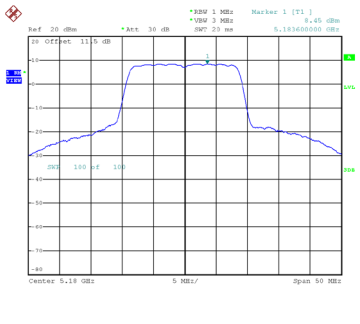
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	23.22	30.00	1.0000	Complies

APPENDIX F- POWER SPECTRAL DENSITY

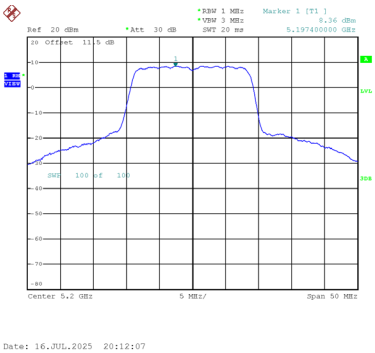
Test Mode	UNII-1_TX A Mode_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	8.45	0.10	8.55	14.11	Complies
40	5200	8.36	0.10	8.46	14.11	Complies
48	5240	8.36	0.10	8.46	14.11	Complies

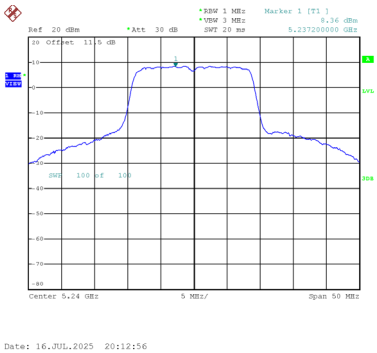
CH36



CH40



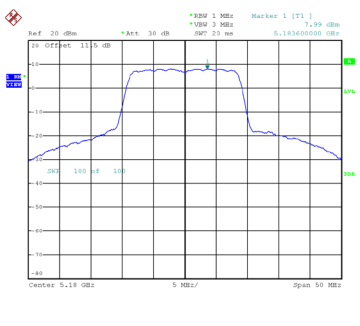
CH48



Test Mode	UNII-1_TX A Mode_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	7.99	0.10	8.09	14.11	Complies
40	5200	7.97	0.10	8.07	14.11	Complies
48	5240	8.03	0.10	8.13	14.11	Complies

CH36



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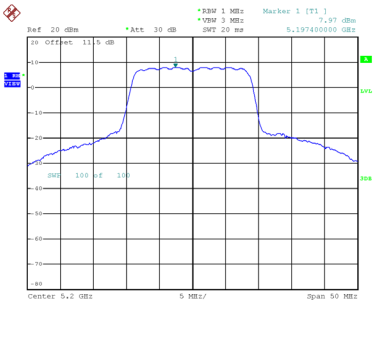

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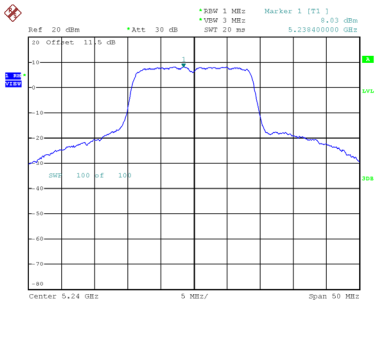


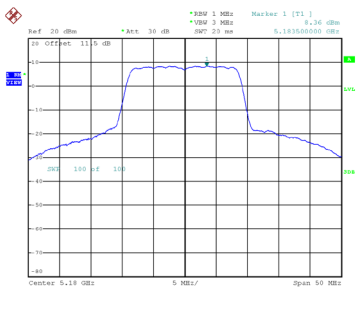
Test Mode	UNII-1_TX A Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	11.34	14.11	Complies
40	5200	11.28	14.11	Complies
48	5240	11.31	14.11	Complies

Test Mode	UNII-1_TX AC(VHT20) Mode_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	8.36	0.11	8.47	14.11	Complies
40	5200	8.19	0.11	8.30	14.11	Complies
48	5240	8.19	0.11	8.30	14.11	Complies

CH36



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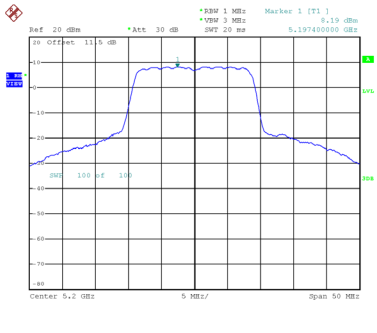
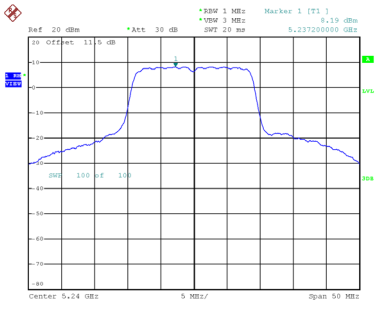


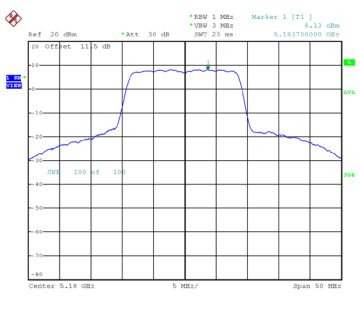
CH48



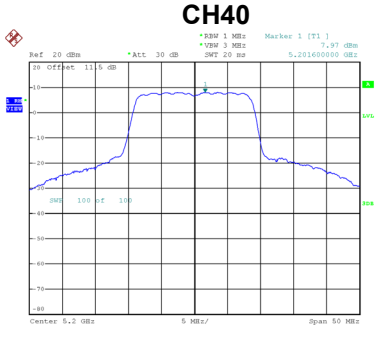
Test Mode	UNII-1_TX AC(VHT20) Mode_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	8.13	0.11	8.24	14.11	Complies
40	5200	7.97	0.11	8.08	14.11	Complies
48	5240	8.02	0.11	8.13	14.11	Complies

CH36



CH40



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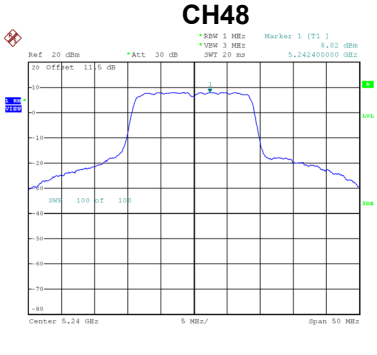


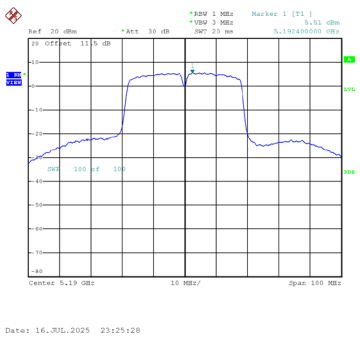
Test Mode	UNII-1_TX AC(VHT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	11.36	14.11	Complies
40	5200	11.20	14.11	Complies
48	5240	11.22	14.11	Complies

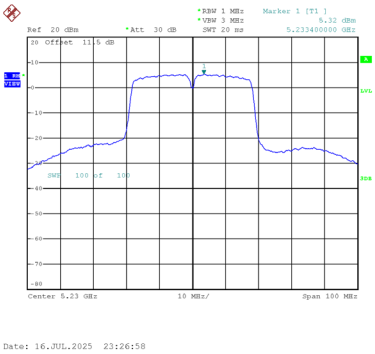
Test Mode	UNII-1_TX AC(VHT40) Mode_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	5.51	0.21	5.72	14.11	Complies
46	5230	5.32	0.21	5.53	14.11	Complies

CH38



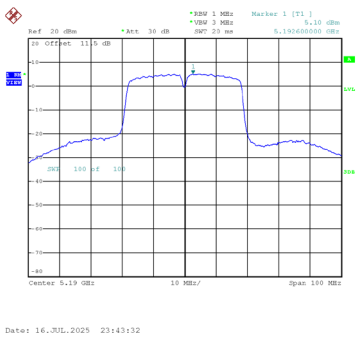
CH46



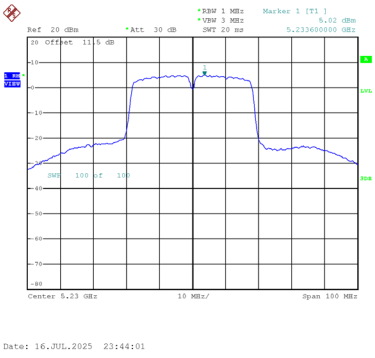
Test Mode	UNII-1_TX AC(VHT40) Mode_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	5.10	0.21	5.31	14.11	Complies
46	5230	5.02	0.21	5.23	14.11	Complies

CH38



CH46



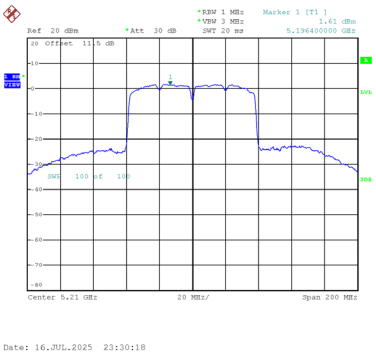
Test Mode	UNII-1_TX AC(VHT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	8.54	14.11	Complies
46	5230	8.40	14.11	Complies

Test Mode	UNII-1_TX AC(VHT80) Mode_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	1.61	0.43	2.04	14.11	Complies

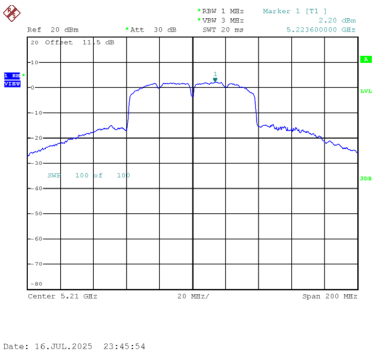
CH42



Test Mode	UNII-1_TX AC(VHT80) Mode_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	2.20	0.43	2.63	14.11	Complies

CH42



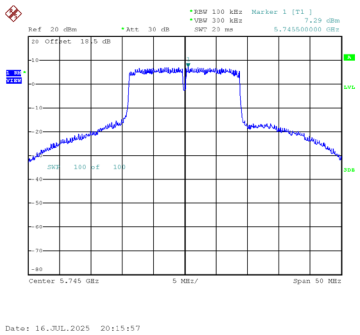
Test Mode	UNII-1_TX AC(VHT80) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	5.35	14.11	Complies

Test Mode	UNII-3_TX A Mode_Ant. 1

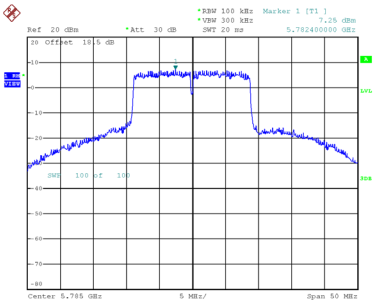
Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	7.29	0.10	7.39	27.11	Complies
157	5785	7.25	0.10	7.35	27.11	Complies
165	5825	7.10	0.10	7.20	27.11	Complies

CH149



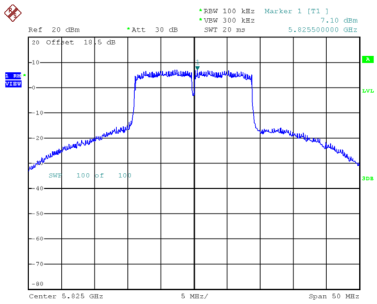
Date: 16.JUL.2025 20:15:57

CH157



Date: 16.JUL.2025 23:17:46

CH165

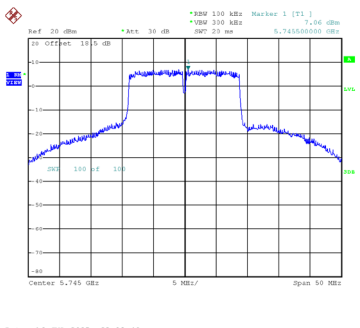


Date: 16.JUL.2025 23:18:53

Test Mode	UNII-3_TX A Mode_Ant. 2

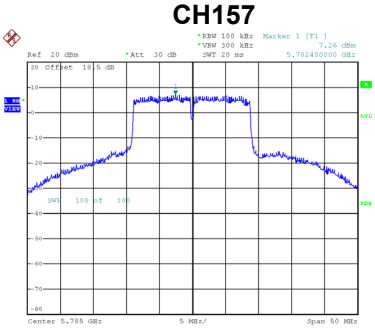
Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	7.06	0.10	7.16	27.11	Complies
157	5785	7.26	0.10	7.36	27.11	Complies
165	5825	7.05	0.10	7.15	27.11	Complies

CH149



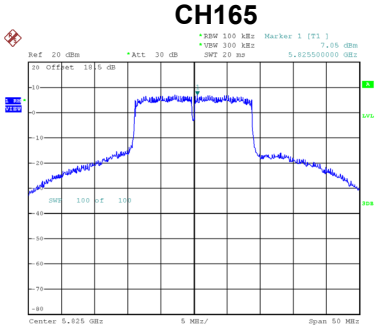
Date: 16.JUL.2025 23:39:40

CH157



Date: 16.JUL.2025 23:40:05

CH165



Date: 16.JUL.2025 23:40:24

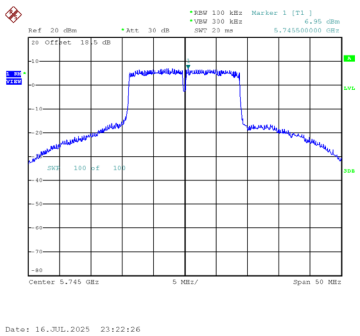
Test Mode	UNII-3_TX A Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	-100.0000	10.29	27.11	Complies
157	5785	10.37	27.11	Complies
165	5825	10.19	27.11	Complies

Test Mode	UNII-3_TX AC(VHT20) Mode_Ant. 1

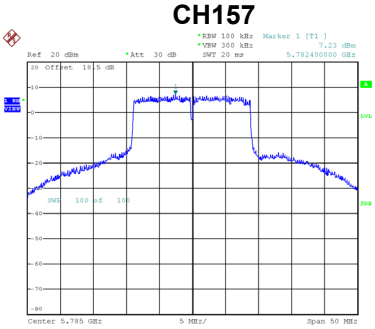
Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	6.95	0.11	7.06	27.11	Complies
157	5785	7.23	0.11	7.34	27.11	Complies
165	5825	7.16	0.11	7.27	27.11	Complies

CH149



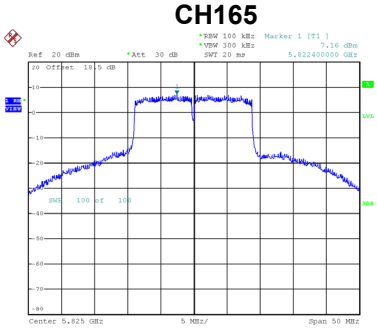
Date: 16.JUL.2025 23:22:26

CH157



Date: 16.JUL.2025 23:23:28

CH165

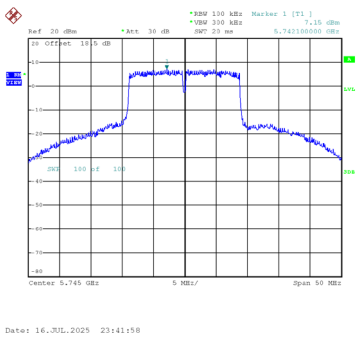


Date: 16.JUL.2025 23:24:26

Test Mode	UNII-3_TX AC(VHT20) Mode_Ant. 2

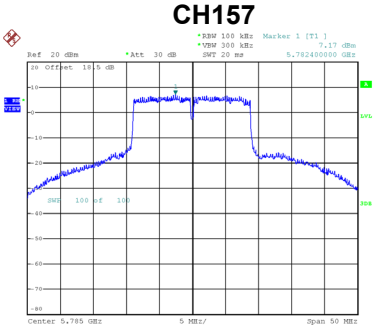
Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	-100.0000	7.15	0.11	7.26	27.11	Complies
157	5785	7.17	0.11	7.28	27.11	Complies
165	5825	7.08	0.11	7.19	27.11	Complies

CH149



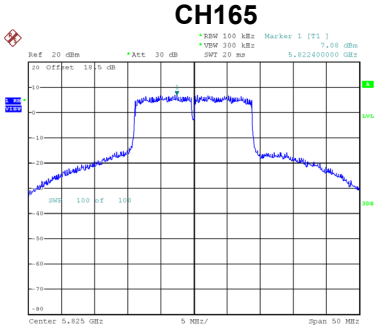
Date: 16.JUL.2025 23:41:58

CH157



Date: 16.JUL.2025 23:42:30

CH165



Date: 16.JUL.2025 23:42:55

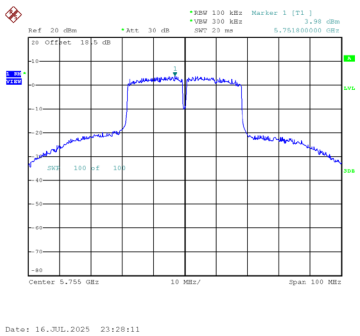
Test Mode	UNII-3_TX AC(VHT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	10.17	27.11	Complies
157	5785	10.32	27.11	Complies
165	5825	10.24	27.11	Complies

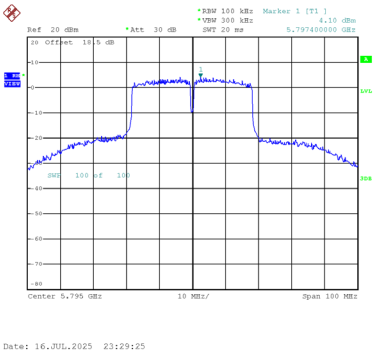
Test Mode	UNII-3_TX AC(VHT40) Mode_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	3.98	0.21	4.19	27.11	Complies
159	5795	4.10	0.21	4.31	27.11	Complies

CH151



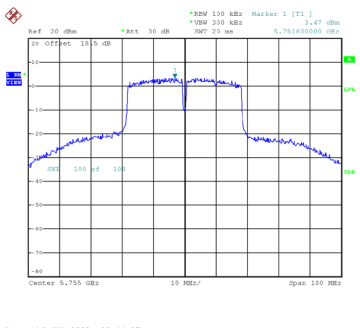
CH159



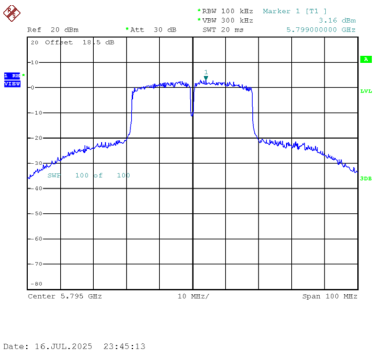
Test Mode	UNII-3_TX AC(VHT40) Mode_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	3.47	0.21	3.68	27.11	Complies
159	5795	3.16	0.21	3.37	27.11	Complies

CH151



CH159



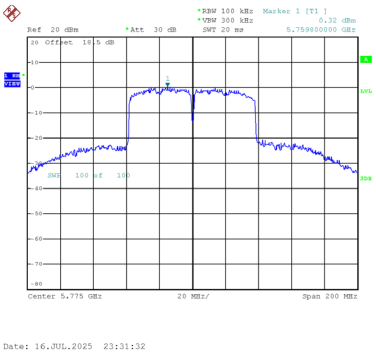
Test Mode	UNII-3_TX AC(VHT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	6.96	27.11	Complies
159	5795	6.88	27.11	Complies

Test Mode	UNII-3_TX AC(VHT80) Mode_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	0.32	0.43	0.75	27.11	Complies

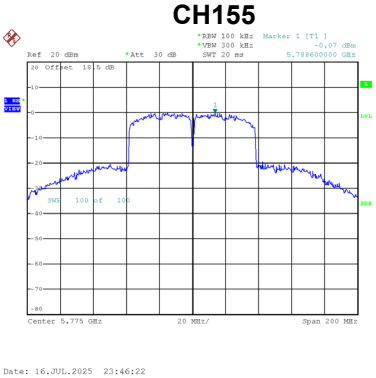
CH155



Test Mode	UNII-3_TX AC(VHT80) Mode_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	-0.07	0.43	0.36	27.11	Complies

CH155



Test Mode	UNII-3_TX AC(VHT80) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	3.57	27.11	Complies

End of Test Report