

FCC PART 15.407

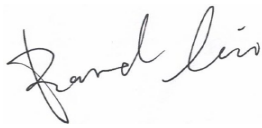
TEST REPORT

For

Tersus GNSS Inc.

Rm 601, Bldg E2, No. 88, Jinjihu Ave, Suzhou, China

FCC ID: 2AMDJ-TC120

Report Type: Original Report	Product Name: Tablet
Report Number:	RSHA250211001-00C
Report Date:	2025-10-14
Reviewed By:	Bard Liu 
Approved By:	Kyle Xu 
Prepared By:	Bay Area Compliance Laboratories Corp. (Kunshan) No.248 Chenghu Road, Kunshan, Jiangsu Province, China Tel: +86-512-86175000 Fax: +86-512-88934268 www.baclcorp.com.cn

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S.Government.

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RSHA250211001-00C	R1V1	2025-10-14	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Tersus GNSS Inc.		
Product Name:	Tablet		
Tested Model	TC120		
Power Supply:	DC 9-36 V		
Maximum Average Output Power:	Mode:	B1:	B4:
	802.11a:	11.27 dBm	9.80 dBm
	802.11ac20:	11.03 dBm	9.60 dBm
	802.11ac40:	11.07 dBm	9.54 dBm
	802.11ac80:	6.09 dBm	8.95 dBm
RF Function:	5G Wi-Fi		
Operating Band/Frequency:	Band 1: 5150-5250 MHz; Band 4: 5725-5850 MHz		
Channel Number:	Band 1: 7; Band 4: 8		
Channel Separation:	802.11 a/ac20/n20: 20 MHz; 802.11ac40/n40: 40 MHz; 802.11ac80: 80 MHz		
Modulation Type	OFDM		
Antenna Type:	FPC Antenna		
★Maximum Antenna Gain:	Band 1: 1.2 dBi Band 4: 1.2 dBi		

Note: The maximum antenna gain was declared by the manufacturer.

All measurement and test data in this report was gathered from production sample serial number: RSHA250211001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2025-02-11.)

Objective

This type approval report is prepared for *Tersus GNSS Inc.* in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions' rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19 dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	9 kHz~150 kHz	3.8dB
	150 kHz~30 MHz	3.4dB
	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0°C
Humidity		6%

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu Province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No.: CN5055.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The EUT was configured for testing in an engineering mode which was provided by the manufacturer.

For **5150~5250 MHz** band, test channel list is as below,

802.11a/ac20 mode Channel 36, 40, 48 were tested.

802.11ac40mode Channel 38, 46 were tested.

802.11ac80 mode Channel 42 was tested.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
40	5200	48	5240
42	5210	/	/

For **5725~5850 MHz** band,

802.11a/ac20 mode Channel 149, 157, 165 were tested.

802.11ac40 mode Channel 151, 159 were tested.

802.11ac80 mode Channel 155 was tested.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	159	5795
151	5755	161	5805
153	5765	165	5825
155	5775	/	/
157	5785	/	/

Note: The system support 802.11a/n ht20/n ht40/ac vht20/ac vht40/ac vht80, the 802.11 n ht20/n ht40 were reduced since the identical parameters with 802.11ac vht20 and vht40.

EUT Exercise Software

RF test tool: Engineering Mode

The worst case was performed under:

5150MHz-5250MHz Band:

U-NII	Mode	Data rate	Power Level★		
			Low Channel	Middle Channel	High Channel
5150~5250MHz	802.11a	6Mbps	16	16	16
	802.11ac-VHT20	MCS0	16	16	16
	802.11ac-VHT40	MCS0	16	/	16
	802.11ac-VHT80	MCS0	/	12	/

Note: The power level was declared by the applicant.

5725MHz-5850MHz Band:

U-NII	Mode	Data rate	Power Level★		
			Low Channel	Middle Channel	High Channel
5725~5850MHz	802.11a	6Mbps	16	16	16
	802.11ac-VHT20	MCS0	16	16	16
	802.11ac-VHT40	MCS0	16	/	16
	802.11ac-VHT80	MCS0	/	16	/

Note: The power level was declared by the applicant.

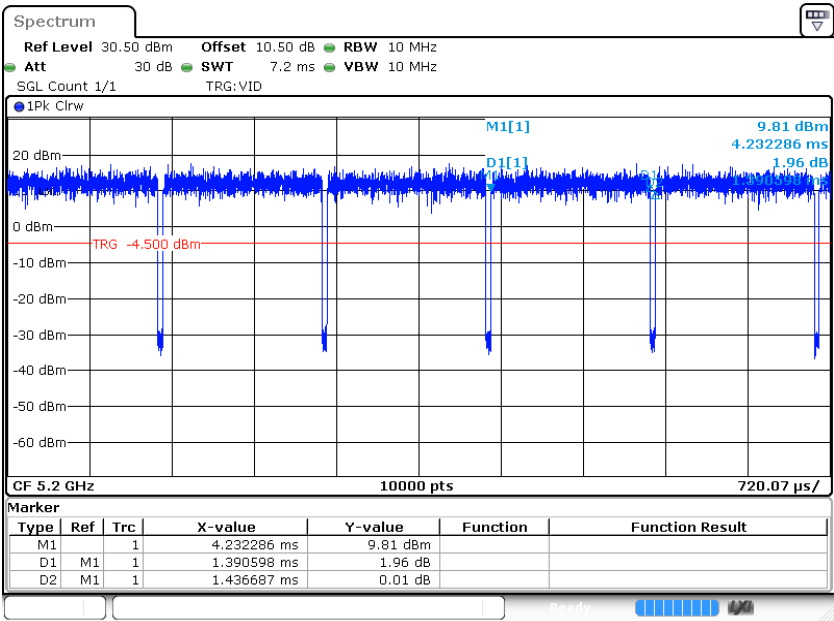
Duty Cycle

Environmental Conditions & Test Information

Test Date:	2025-03-04 to 2025-10-14
Temperature:	23.5 °C-25.7 °C
Relative Humidity:	49%-56 %
ATM Pressure:	100.3 kPa-102.8 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

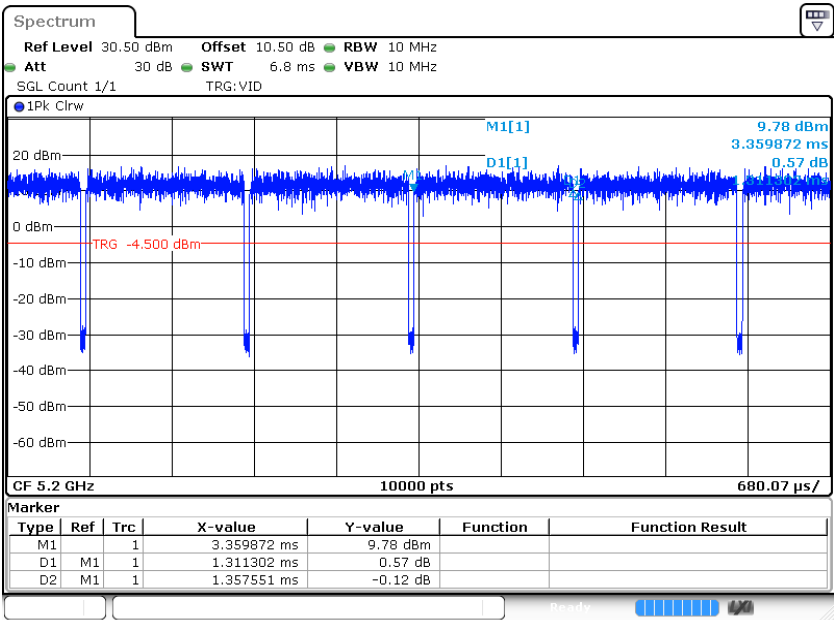
5150MHz-5250MHz Band:

802.11a mode



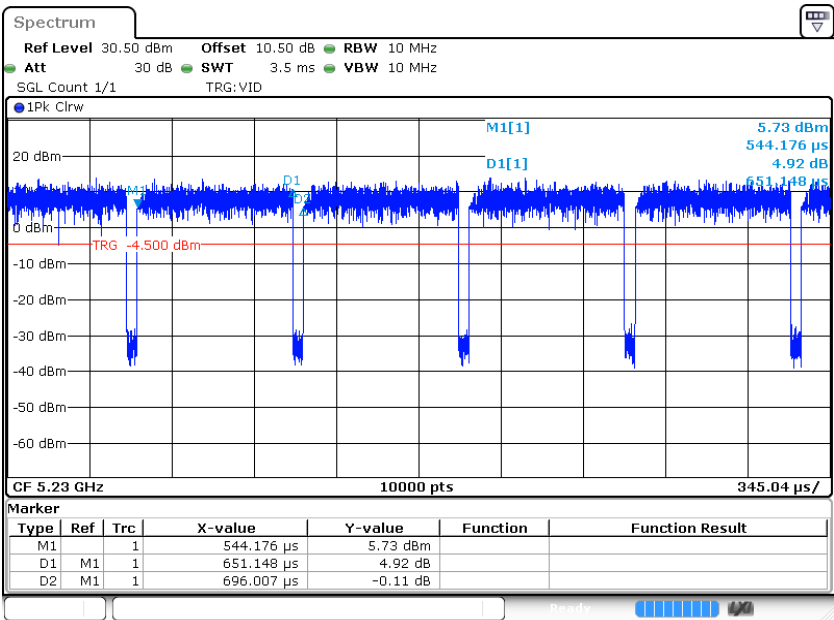
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802.11ac20 mode



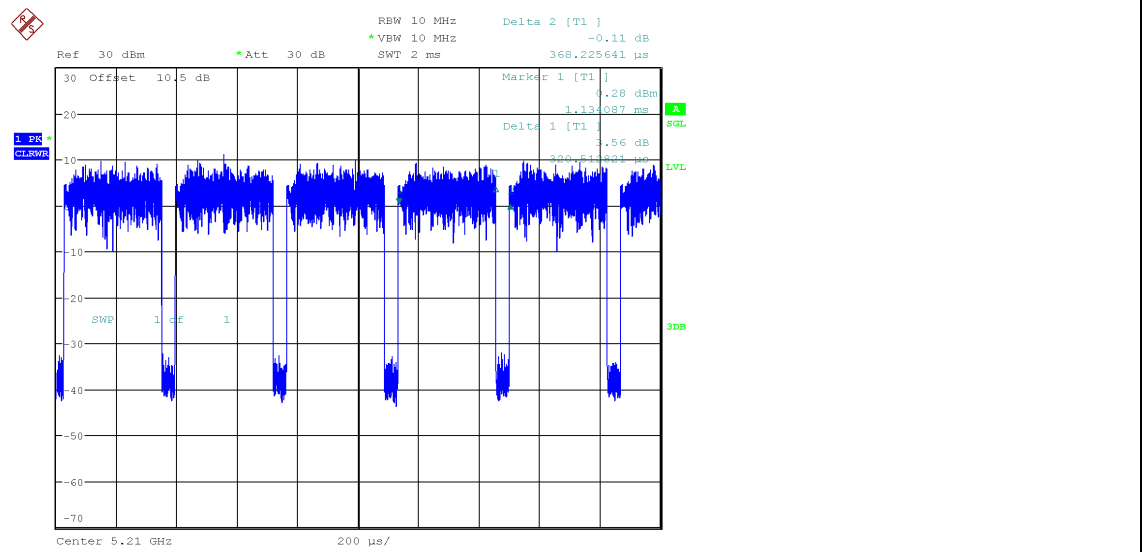
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802.11 ac40 mode



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802.11 ac80 mode



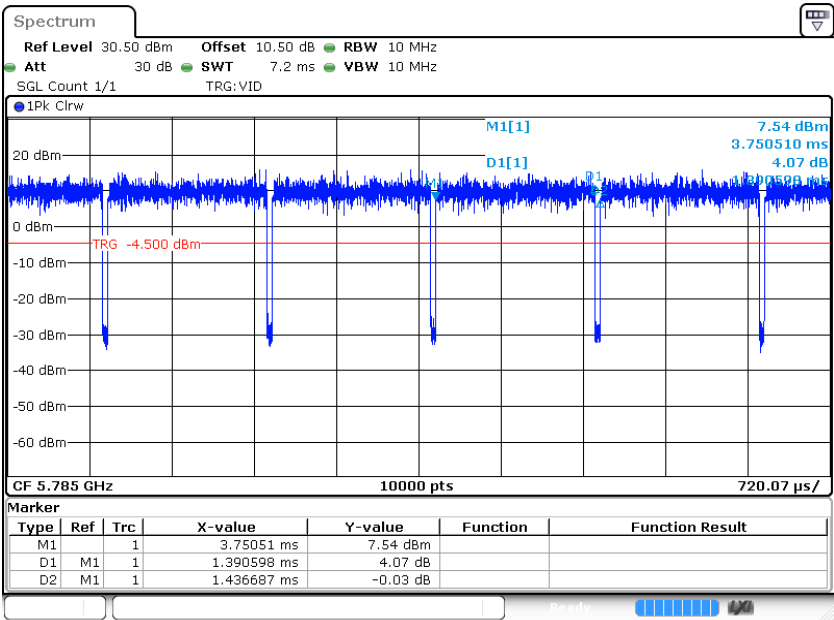
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5150MHz-5250MHz Band:

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)
802.11a	5200	1.391	1.437	96.80	0.14
802.11ac20	5200	1.311	1.358	96.54	0.15
802.11ac40	5230	0.651	0.696	93.53	0.29
802.11ac80	5210	0.321	0.368	87.23	0.59

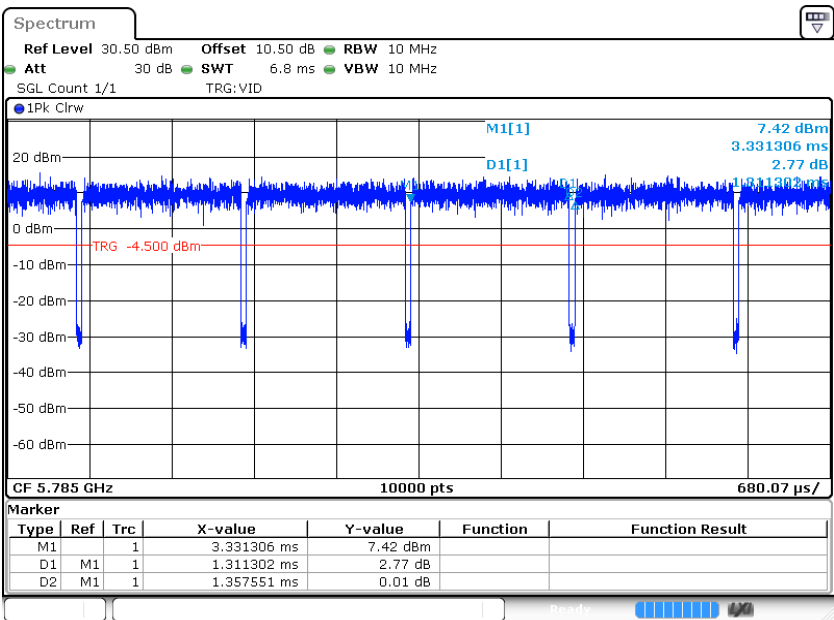
5725MHz-5850MHz Band:

802.11a mode



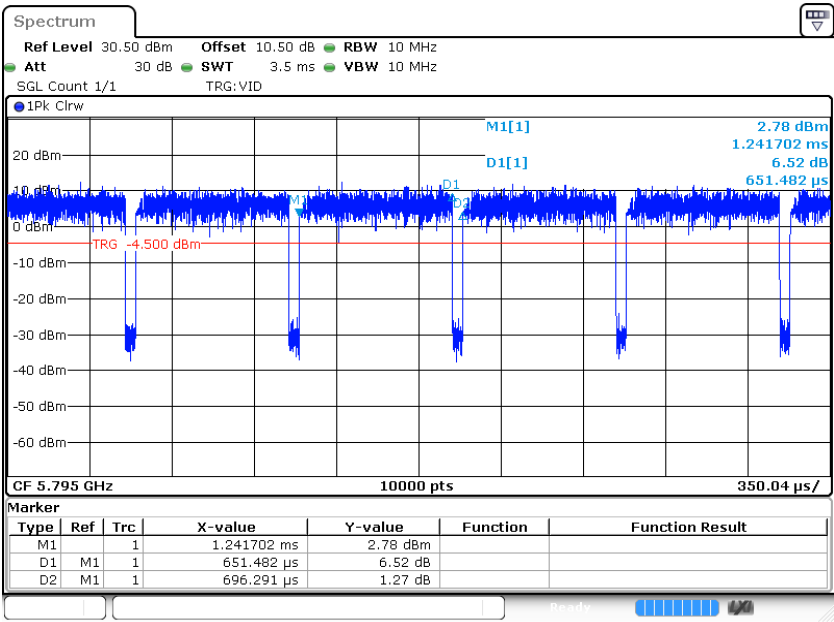
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802.11 ac20 mode



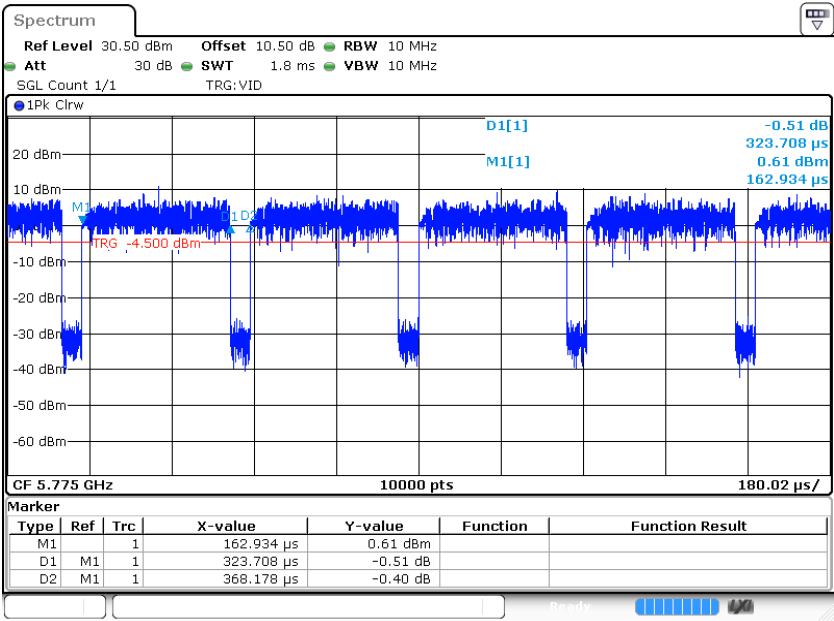
ProjectNo.:RSHA250211001 Tester:Neil Zhou
Date: 4.MAR.2025 23:53:51

802.11 ac40 mode



ProjectNo.:RSHA250211001 Tester:Neil Zhou
Date: 4. MAR.2025 23:56:19

802.11 ac80 mode



ProjectNo.:RSHA250211001 Tester:Neil Zhou
Date: 4. MAR.2025 23:57:36

Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

5745MHz-5825MHz Band:

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)
802.11a	5785	1.391	1.437	96.80	0.14
802.11ac20	5785	1.311	1.358	96.54	0.15
802.11ac40	5795	0.651	0.696	93.53	0.29
802.11ac80	5775	0.324	0.368	88.04	0.55

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

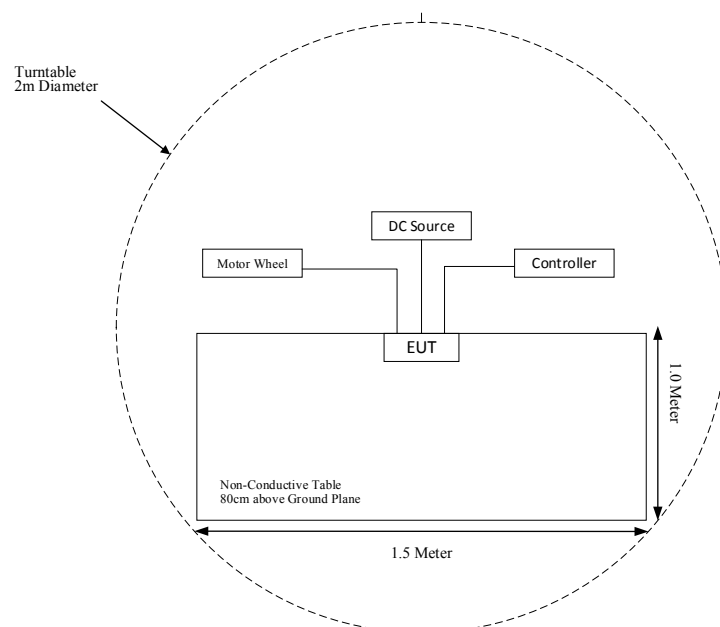
Manufacturer	Description	Model	Serial Number
ZHAOXIN	DC Source	RXN-605D	21R605D08132677
Tersus GNSS Inc.	Motor Wheel	AG993	/
Tersus GNSS Inc.	Controller	GC30	/

External I/O Cable

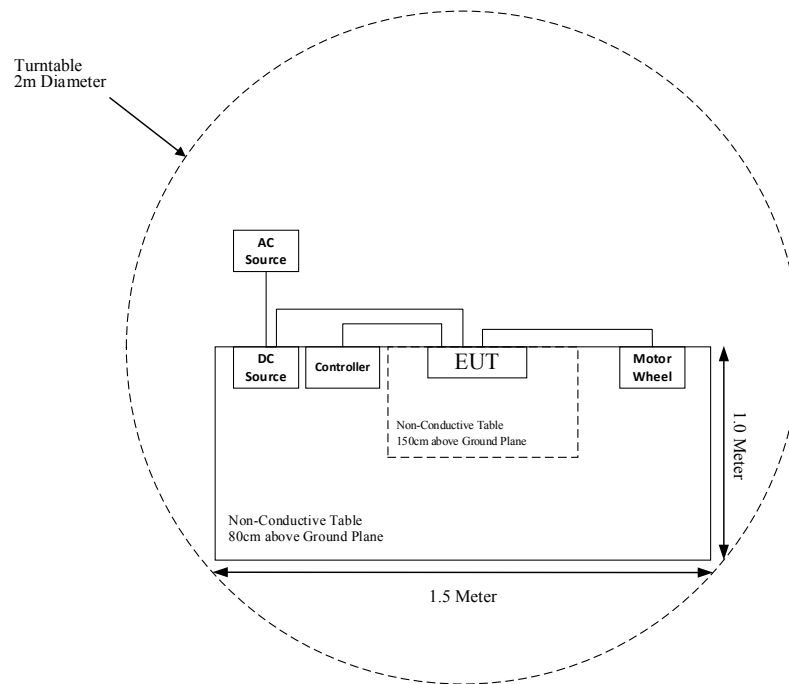
Cable Description	Length (m)	From Port	To Port
Power Cable 1	1.5	EUT	DC Source
Power Cable 2	1.0	DC Source	AC Source
Power Cable 3	2.5	EUT	Motor Wheel
Power Cable 4	3.0	EUT	Controller

Block Diagram of Test Setup

For Radiated Emissions (Below 1GHz):



For Radiated Emissions (1GHz – 25GHz):



UMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207 & §15.407(b) (9)	AC Power Line Conducted Emissions	Not Applicable (See Note)
§15.205 & §15.209 & §15.407(b) (1), (4), (8), (9), (10)	Undesirable Emission & Restricted Bands	Compliant
§§15.407(a) & §15.407(e)	Emission Bandwidth	Compliant
§15.407(a) (1) (3)	Conducted Transmitter Output Power	Compliant
§15.407(a) (1) (3)	Power Spectral Density	Compliant
§1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	Compliant

Note: The EUT is a vehicular equipment.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber #1)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2024-04-23	2025-04-22
Sunol Sciences	Broadband Antenna	JB3	A090314-1	2024-11-08	2027-11-07
Narda	6dB Attenuator	773-6	10690812-2-1	2024-10-29	2027-10-28
ETS-LINDGREN	Loop Antenna	6512	108100	2024-11-03	2027-11-02
Sonoma Instrument	Pre-amplifier	310N	171205	2024-04-23	2025-04-22
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-9	009	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-10	010	2024-04-23	2025-04-22
Radiated Emission Test (Chamber #2)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2024-04-25	2025-04-24
ETS-LINDGREN	Horn Antenna	3115	9311-4159	2024-12-02	2025-12-01
ETS-LINDGREN	Horn Antenna	3116	2516	2024-12-12	2027-12-11
A.H.Systems, inc	Amplifier	PAM-0118P	512	2024-04-25	2025-04-24
SELECTOR	Amplifier	EM18G40G	060726	2024-04-25	2025-04-24
MICRO-TRONICS	Band Reject Filter	BRM50716	G059	2024-05-23	2025-05-22
Narda	Attenuator	10dB	010	2024-08-15	2025-08-14
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-11	011	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-12	012	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-13	013	2024-04-25	2025-04-24
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSV40-N	103298	2024-04-24	2025-04-23
Rohde & Schwarz	Signal Analyzer	FSU26	200103	2024-04-24	2025-04-23
				2025-04-09	2026-04-08
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2024-04-08	2025-04-07
Anritsu	Power Sensor	MA24418A	12621	2024-04-09	2025-04-08
Narda	Attenuator	10dB	010	2024-08-15	2025-08-14
				2025-04-08	2026-04-07
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1310 & §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §2.1091 and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculation Data:

Mode	Frequency Range (MHz)	Antenna Gain		Tune-up Output Power*		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
2.4G Wi-Fi	2412-2462	1.5	1.41	20.00	100.00	20	0.0280	1.00
	2422-2452	1.5	1.41	17.00	50.12	20	0.0141	1.00
BLE	2402-2480	1.5	1.41	-3.50	0.45	20	0.0001	1.00
BT	2402-2480	1.5	1.41	7.50	5.62	20	0.0016	1.00
5G Wi-Fi	5150-5250	1.2	1.32	11.50	14.13	20	0.0037	1.00
	5725-5850	1.2	1.32	10.50	11.22	20	0.0029	1.00
LTE Band 5	824-849	-0.8	0.83	24.50	281.84	20	0.0466	0.5493
LTE Band 7	2500-2570	1.62	1.45	22.50	177.83	20	0.0514	1.00
LTE Band38	2570-2620	1.60	1.45	23.50	223.87	20	0.0644	1.00
LTE Band41	2496-2690	1.62	1.45	24.00	251.19	20	0.0726	1.00

(1) The target output powers are all declared by the Manufacturer.

(2) Wi-Fi/BT/BLE and LTE can transmit simultaneously, the worst condition is 802.11b of Wi-Fi, LTE Band 5 as below:

$$\sum_i \frac{S_i}{S_{Limit,i}} = 0.0280/1.00 + 0.0466/0.5493 = 0.0280 + 0.0848 = 0.1128 < 1.0$$

Result: The device meet FCC MPE at 20 cm distance.

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.407, if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has an FPC antenna, which the antenna gain is 1.2 dBi for band 1 and 1.2 dBi for band 4, fulfill the requirement of this section. Please refer to the EUT photos.

Antenna Type	Frequency Range	Max. Antenna Gain	Input impedance
FPC Antenna	5150~5250 MHz	1.2 dBi	50Ω
	5725~5850 MHz	1.2 dBi	

Result: Compliant.

FCC §15.205 & §15.209 & §15.407(B) (1), (4), (8), (9), (10) – UNDESIRABLE EMISSION & RESTRICTED BANDS

Applicable Standard

FCC §15.407 (b) (1), (4), (8), (9); §15.209; §15.205;

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

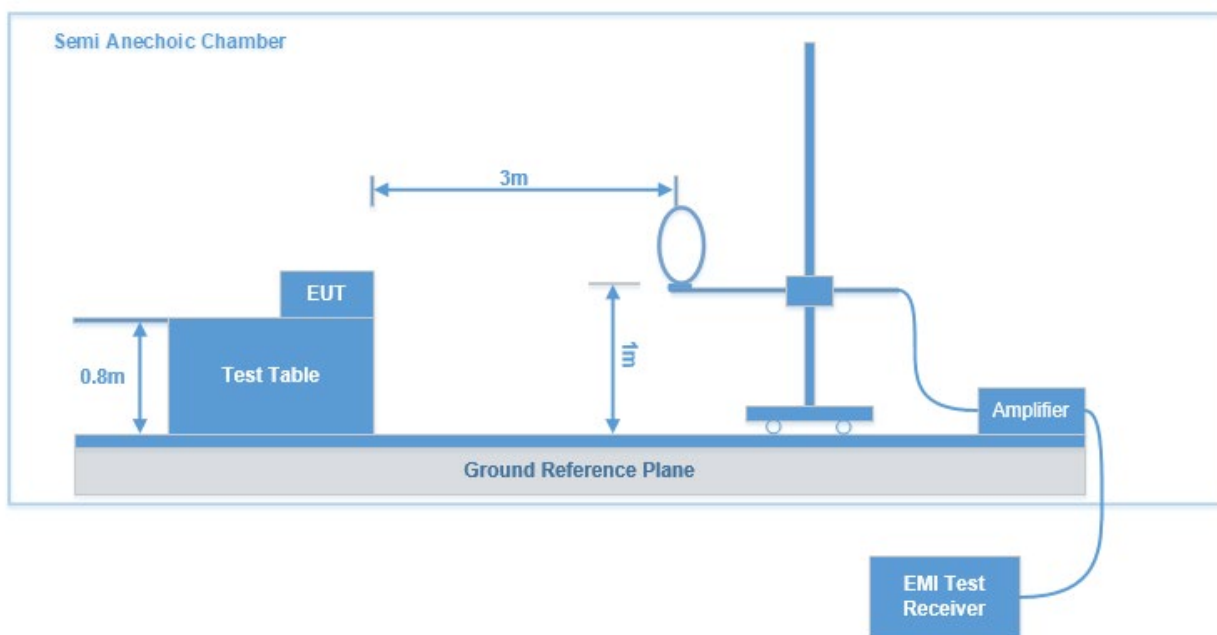
For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to 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.

As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000MHz shall be performed using a minimum resolution bandwidth of 1MHz.

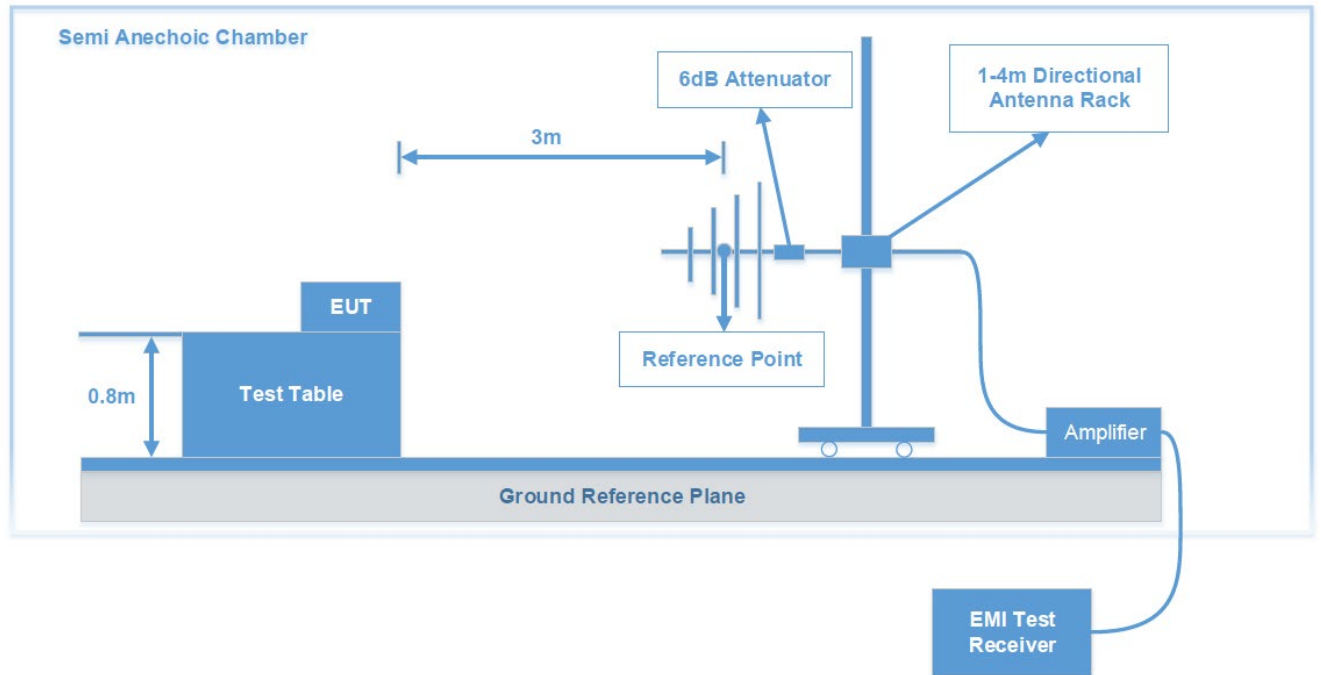
According to 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: $E \text{ [dB}\mu\text{V/m]} = \text{EIRP [dBm]} + 95.2$, for $d = 3$ meters.

Test System Setup

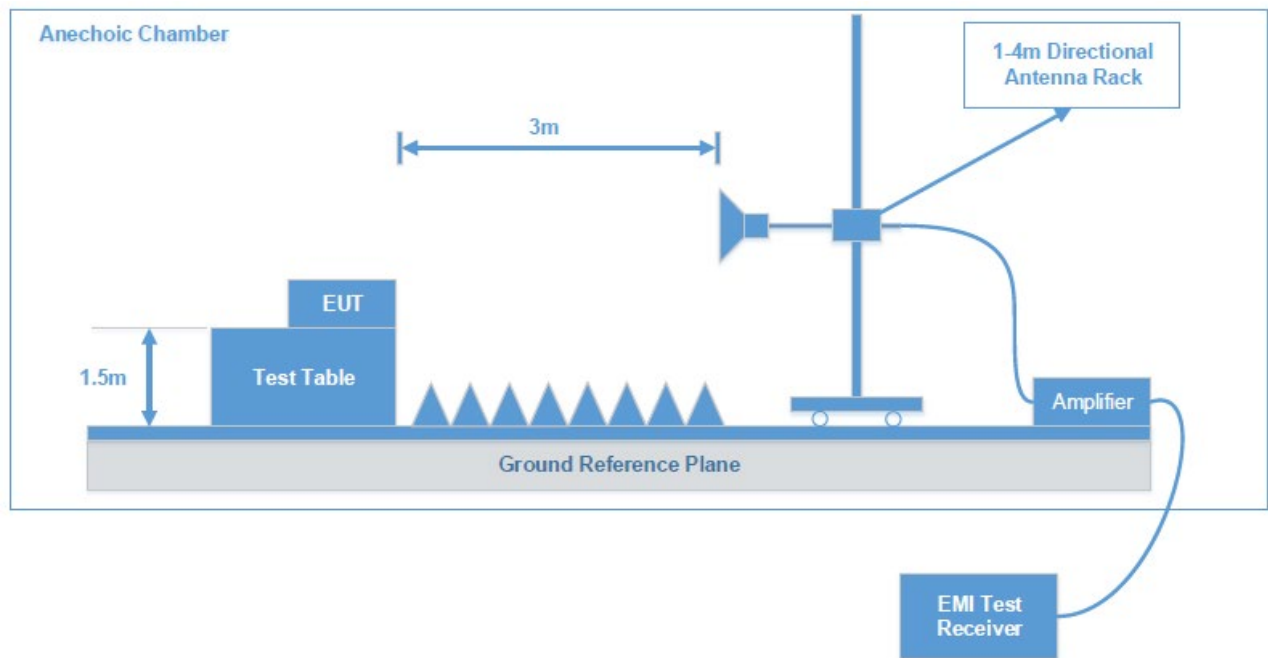
9 kHz-30MHz:

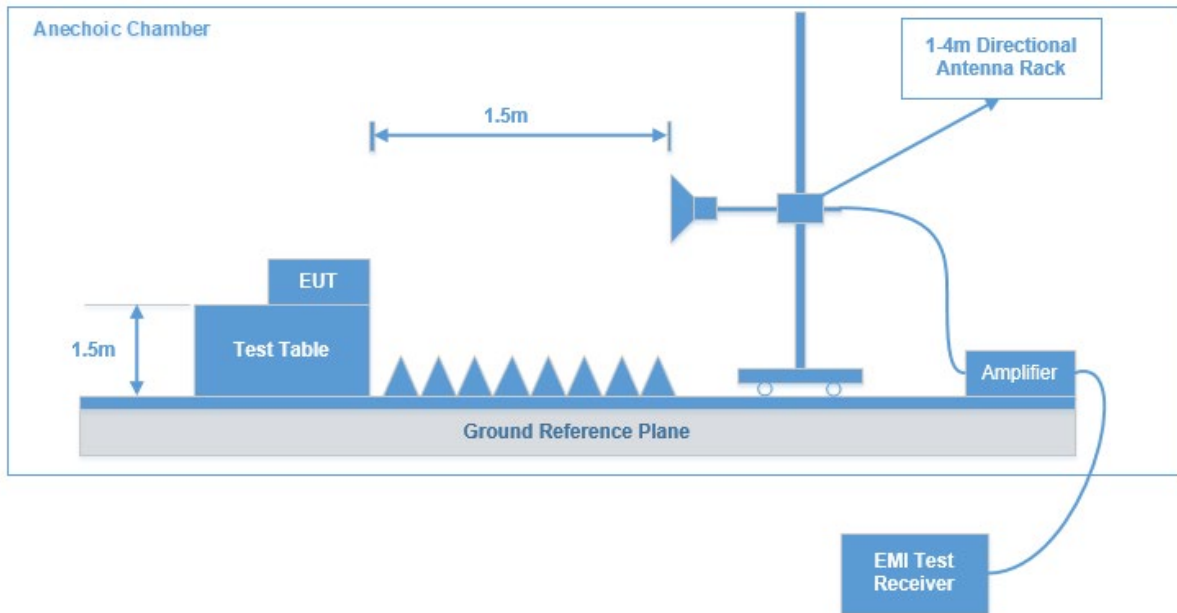


30MHz-1GHz:



1 GHz-18GHz:



18-40GHz:

The radiated emission tests were performed in the 3 meters test site for below 18GHz and 1.5m for 18-40 GHz, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209 and FCC 15.407 limits. The limit at 1.5m for 18-40 GHz is 80dB μ V/m (Peak) and 60dB μ V/m (Average)

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209 and FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 GHz.

During the radiated emission test, the EMI test receiver Setup was set with the following configurations:

Frequency Range	RBW	VBW	IF B/W	Detector
9 kHz - 150 kHz	200 Hz	1 kHz	200 Hz	QP/Average
150 kHz - 30 MHz	9 kHz	30 kHz	9 kHz	QP/ Average
30 MHz - 1000 MHz	100 kHz	300 kHz	/	Peak
	/	/	120 kHz	QP
Above 1GHz	1MHz	3 MHz	/	Peak
	1MHz	3 MHz	/	Average

Test Procedure

During the radiated emission test, the adapter was connected to AC floor outlet. Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

For 9 kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude (dBμV/m) = Meter Reading (dBμV) + Corrected factor (dB/m)

Corrected factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Test Data: See Appendix

FCC §15.407(a) & §15.407(e)–EMISSION BANDWIDTH

Applicable Standard

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz band is made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

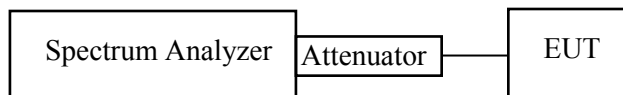
1. Emission Bandwidth (EBW)

- Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- Set RBW = 100 kHz.
 - Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
 - Detector = Peak.
 - Trace mode = max hold.
 - Sweep = No faster than coupled (auto) time.
 - Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Data: See Appendix

FCC §15.407(a) (1) (3) – CONDUCTED TRANSMITTER OUTPUT POWER

Applicable Standard

According to §15.407(a)(1)

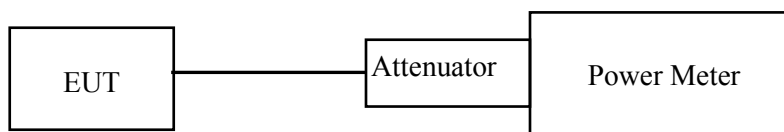
(ii) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. 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.

According to §15.407(a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.



Test Data: See Appendix

FCC §15.407(a) (1) (3) - POWER SPECTRAL DENSITY

Applicable Standard

According to §15.407(a) (1)

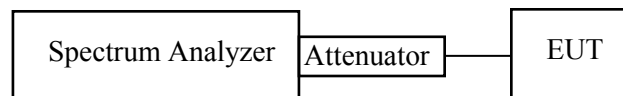
(ii) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. 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.

According to §15.407(a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

The measurements are base on FCC KDB 789033 D02 General UNII Test Proceidyres New Rules v02r01: Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices section F: Maximum power spectral density (PPSD) and method SA-1



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Data: See Appendix

Appendix - TEST DATA

TRANSMITTER UNWANTED EMISSIONS & RESTRICTED FREQUENCY BANDS

Environmental Conditions & Test Information

Test Item:	SPURIOUS EMISSIONS			
	9kHz - 1GHz		1 GHz - 18GHz	18 GHz – 40 GHz
Test Date:	2025-04-07	2025-04-01	2025-03-08	2025-04-24
Temperature:	16.3 °C	18.3 °C	20.3 °C	23.0 °C
Relative Humidity:	53 %	39 %	52 %	47 %
ATM Pressure:	102.5 kPa	102.1 kPa	102.6 kPa	101.8 kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Jerry Yan	Jerry Yan	Destine Hu	Destine Hu

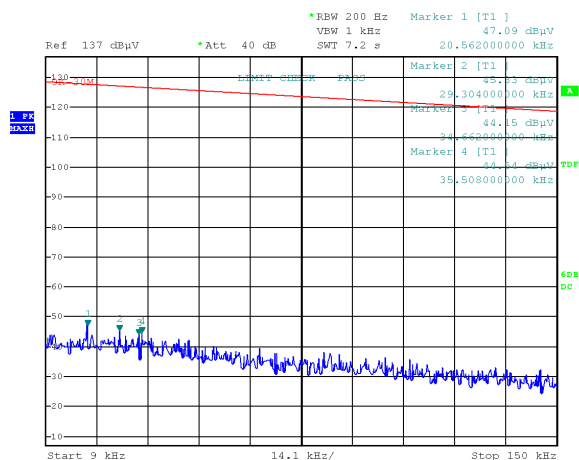
EUT operation mode: Transmitting

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

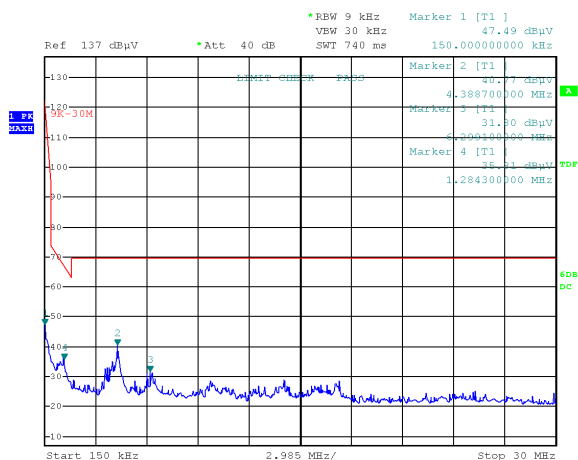
9 kHz-30MHz (Transmitting in maximum output power 802.11a mode low channel)

Parallel(worst case)

9kHz-150kHz



150kHz-30MHz



Project No.RSHA250211001
Date: 7.APR.2025 16:57:17

Tester:Jerry Yan

Project No.RSHA250211001
Date: 7.APR.2025 17:02:55

Tester:Jerry Yan

9 kHz-150 kHz

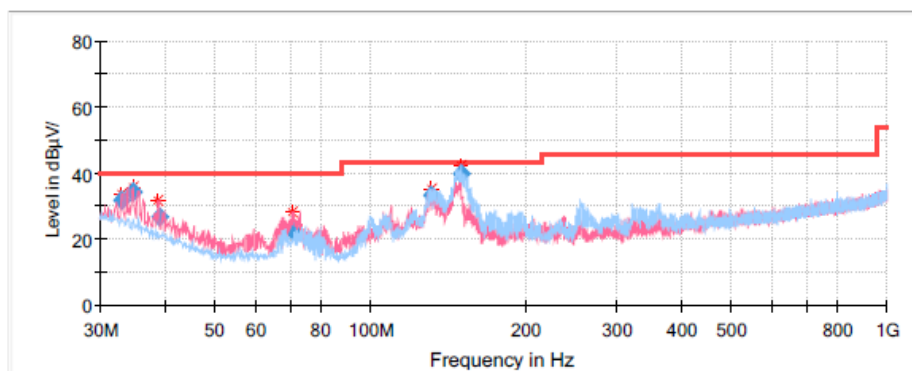
Frequency (kHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
20.56	47.09	PK	-0.56	121.34	74.25
29.30	45.33	PK	-0.61	118.27	72.94
34.66	44.15	PK	-1.36	116.81	72.66
35.51	44.54	PK	-1.49	116.60	72.06

150 kHz-30 MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.15	47.49	PK	-11.34	104.08	56.59
1.28	35.81	PK	-28.53	65.46	29.65
4.39	40.77	PK	-31.97	69.54	28.77
6.30	31.80	PK	-32.26	69.54	37.74

30MHz-1GHz**Transmitting in maximum output power mode 802.11a low channel****Low Channel: 5180 MHz****Common Information**

Project No:	RSHA250211001
EUT Model:	TC120
Test Mode:	Transmitting in 802.11a mode low channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment:	ESCI, JB3, 310N
Receiver Setting:	RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature:	18.3°C
Humidity:	39%
Barometric Pressure:	102.1kPa
Test Engineer:	Jerry Yan
Test Date:	2025/4/1

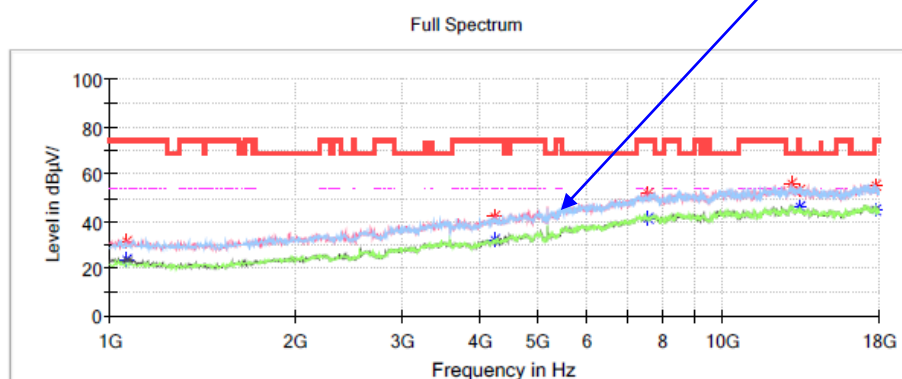
**Final Result**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
33.129100	31.92	40.00	8.08	V	-6.8
34.843400	34.12	40.00	5.88	V	-7.9
39.064250	26.70	40.00	13.30	V	-10.7
70.491000	22.60	40.00	17.40	V	-16.6
130.862650	33.01	43.50	10.49	H	-11.1
149.566300	39.76	43.50	3.74	H	-11.6

1GHz-18GHz(5150-5250MHz Band):**802.11a Mode:****Low Channel: 5180MHz****Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11a mode 5180MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3℃
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Fundamental Test with Band Reject Filter

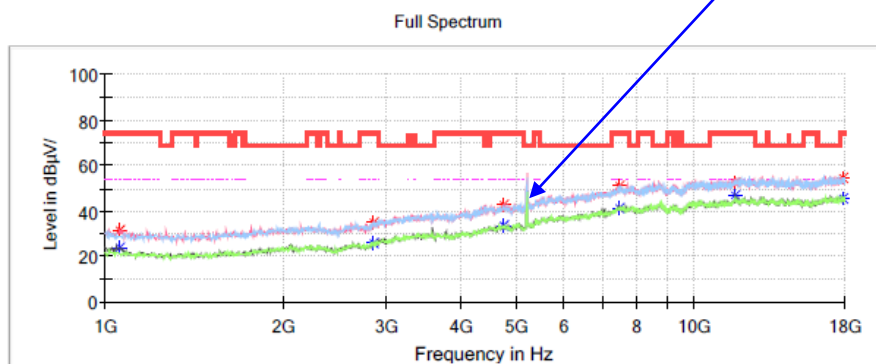
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1061.200000	31.59	---	74.00	42.41	V	-15.4
1061.200000	---	23.73	54.00	30.27	V	-15.4
4243.600000	42.19	---	74.00	31.81	V	-5.1
4243.600000	---	32.04	54.00	21.96	V	-5.1
7575.600000	51.66	---	74.00	22.34	V	3.9
7575.600000	---	41.24	54.00	12.76	V	3.9
12927.200000	55.92	---	68.20	12.28	H	9.7
13355.600000	53.34	---	74.00	20.66	V	9.6
13355.600000	---	46.50	54.00	7.50	H	9.6
17826.600000	---	44.51	54.00	9.49	H	11.8
17826.600000	55.31	---	74.00	18.69	H	11.8

Middle Channel: 5200MHz**Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11a mode 5200MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Fundamental Test with Band Reject Filter

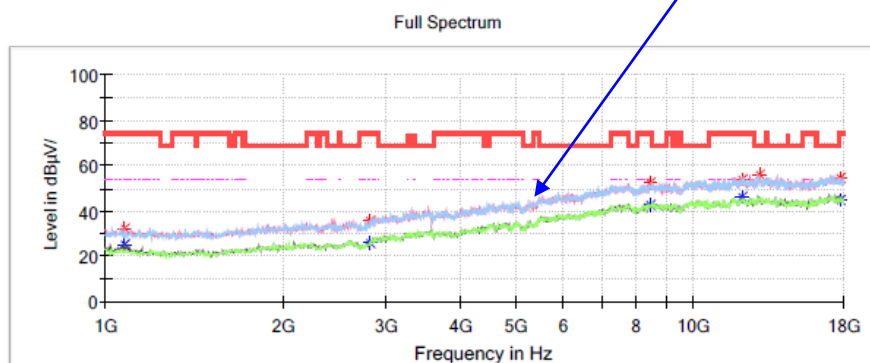
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1057.800000	---	23.90	54.00	30.10	V	-15.4
1057.800000	31.29	---	74.00	42.71	V	-15.4
2846.200000	---	25.59	54.00	28.41	V	-9.0
2846.200000	35.07	---	74.00	38.93	V	-9.0
4743.400000	42.55	---	74.00	31.45	V	-3.4
4743.400000	---	33.63	54.00	20.37	H	-3.4
7477.000000	51.18	---	74.00	22.82	H	3.8
7477.000000	---	41.16	54.00	12.84	V	3.8
11767.800000	---	46.62	54.00	7.38	V	8.9
11767.800000	52.73	---	74.00	21.27	V	8.9
17867.400000	---	45.16	54.00	8.84	H	11.8
17867.400000	54.78	---	74.00	19.22	H	11.8

High Channel: 5240MHz**Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11a mode 5240MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Fundamental Test with Band Reject Filter

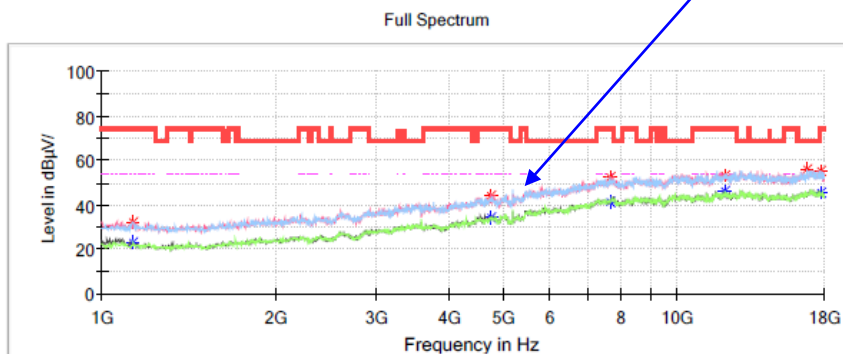
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1074.800000	32.48	---	74.00	41.52	V	-15.4
1074.800000	---	24.99	54.00	29.01	V	-15.4
2812.200000	---	25.80	54.00	28.20	V	-9.1
2812.200000	35.51	---	74.00	38.49	H	-9.1
8466.400000	---	42.46	54.00	11.54	V	5.3
8466.400000	52.62	---	74.00	21.38	V	5.3
12084.000000	---	45.97	54.00	8.03	V	9.1
12084.000000	53.90	---	74.00	20.10	V	9.1
12957.800000	55.75	---	68.20	12.45	V	9.7
17772.200000	54.56	---	74.00	19.44	H	11.8
17772.200000	---	44.92	54.00	9.08	H	11.8

802.11ac20 Mode**Low Channel: 5180MHz****Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac20 mode 5180MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Fundamental Test with Band Reject Filter

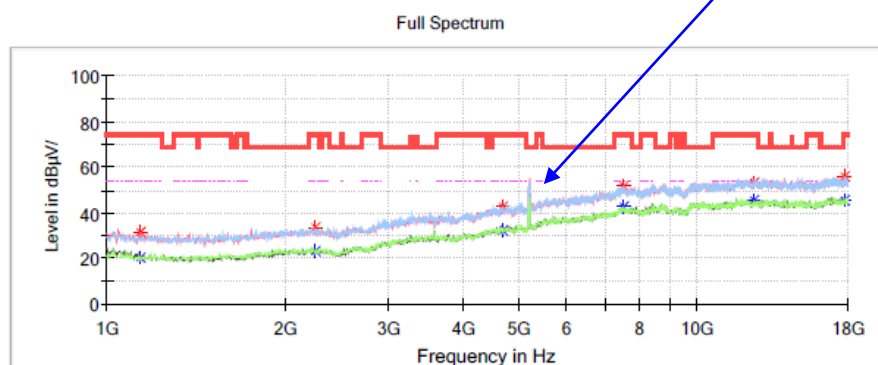
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1132.600000	32.39	---	74.00	41.61	H	-15.3
1132.600000	---	23.04	54.00	30.96	H	-15.3
4757.000000	44.16	---	74.00	29.84	V	-3.3
4757.000000	---	34.37	54.00	19.63	H	-3.3
7657.200000	52.17	---	74.00	21.83	H	3.9
7657.200000	---	41.57	54.00	12.43	H	3.9
12087.400000	52.99	---	74.00	21.01	V	9.1
12087.400000	---	45.97	54.00	8.03	H	9.1
16806.600000	55.86	---	68.20	12.34	H	11.7
17755.200000	---	45.52	54.00	8.48	V	11.7
17755.200000	55.32	---	74.00	18.68	H	11.7

Middle Channel: 5200MHz**Common Information**

Project No.: RSHA250211001
 EUT Model: TC120
 Test Mode: Transmitting in 802.11ac20 mode 5200MHz
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 20.3°C
 Humidity: 52%
 Atmospheric Pressure: 102.6kPa
 Test Engineer: Destine Hu
 Test Date: 2025/3/8

Fundamental Test with Band Reject Filter

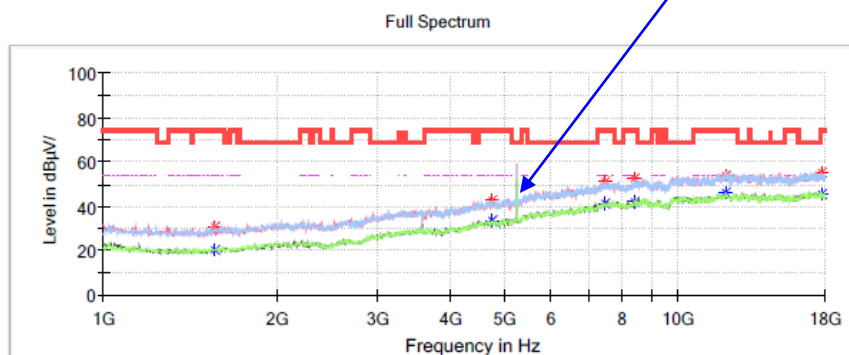
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1139.400000	---	20.48	54.00	33.52	V	-15.3
1139.400000	31.59	---	74.00	42.41	V	-15.3
2251.200000	---	22.73	54.00	31.27	V	-10.9
2251.200000	33.34	---	74.00	40.66	V	-10.9
4678.800000	---	32.50	54.00	21.50	V	-3.6
4678.800000	42.84	---	74.00	31.16	H	-3.6
7497.400000	---	42.49	54.00	11.51	H	3.9
7497.400000	51.47	---	74.00	22.53	H	3.9
12495.400000	---	45.68	54.00	8.32	V	9.7
12495.400000	53.00	---	74.00	21.00	V	9.7
17785.800000	---	45.19	54.00	8.81	H	11.8
17785.800000	55.82	---	74.00	18.18	H	11.8

High Channel: 5240MHz**Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac mode 5240MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Fundamental Test with Band Reject Filter

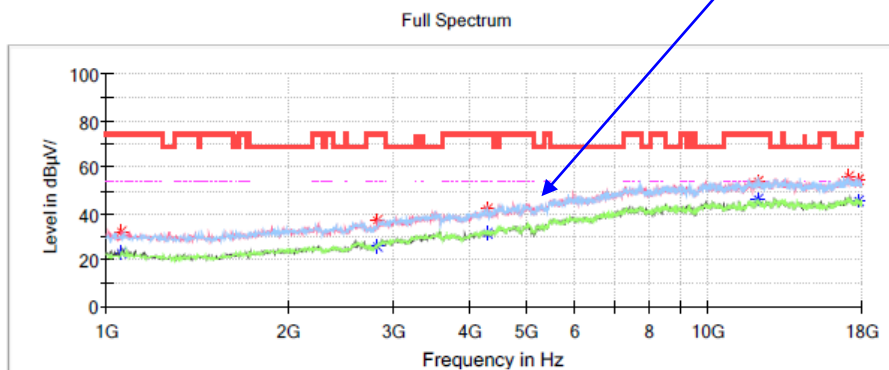
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
1567.800000	---	20.57	54.00	33.43	V	-14.3
1567.800000	30.71	---	74.00	43.29	V	-14.3
4743.400000	---	33.68	54.00	20.32	H	-3.4
4743.400000	42.73	---	74.00	31.27	H	-3.4
7439.600000	---	41.51	54.00	12.49	V	3.7
7439.600000	50.73	---	74.00	23.27	V	3.7
8418.800000	---	42.07	54.00	11.93	V	5.2
8418.800000	52.52	---	74.00	21.48	V	5.2
12107.800000	53.68	---	74.00	20.32	V	9.1
12107.800000	---	45.97	54.00	8.03	H	9.1
17789.200000	---	45.78	54.00	8.22	V	11.8
17789.200000	55.11	---	74.00	18.89	H	11.8

802.11ac40 Mode**5190MHz****Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac40 mode 5190MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3℃
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Fundamental Test with Band Reject Filter

**Critical Freqs**

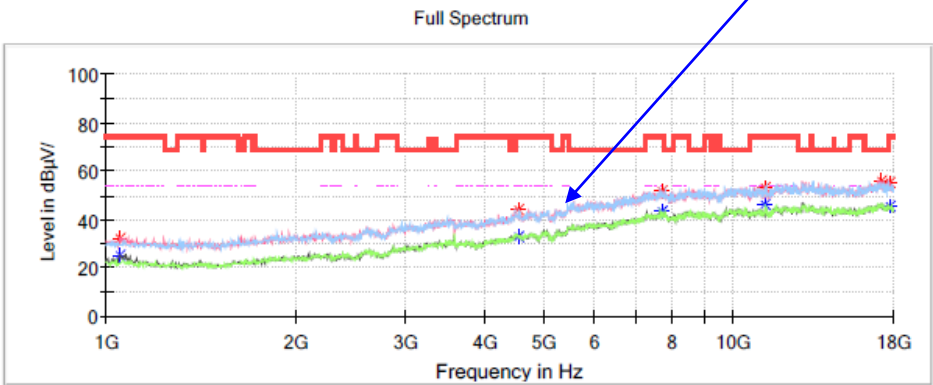
Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
1057.800000	32.50	---	74.00	41.50	V	-15.4
1057.800000	---	23.11	54.00	30.89	V	-15.4
2822.400000	---	25.93	54.00	28.07	V	-9.0
2822.400000	36.80	---	74.00	37.20	V	-9.0
4308.200000	42.13	---	74.00	31.87	H	-4.9
4308.200000	---	31.77	54.00	22.23	H	-4.9
12124.800000	53.55	---	74.00	20.45	V	9.1
12124.800000	---	46.21	54.00	7.79	H	9.1
17119.400000	56.09	---	68.20	12.11	H	12.1
17765.400000	54.75	---	74.00	19.25	H	11.8
17765.400000	---	45.31	54.00	8.69	H	11.8

5230MHz

Common Information

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac40 mode 5230MHz
Standard: FCC Part 15.205 & FCC Part 15.209&FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3℃
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Fundamental Test with Band Reject Filter



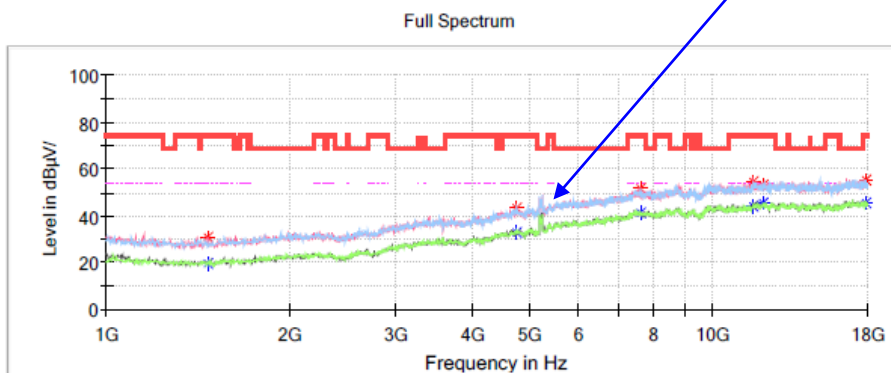
Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1051.000000	32.38	---	74.00	41.62	V	-15.4
1051.000000	---	24.98	54.00	29.02	V	-15.4
4553.000000	43.73	---	74.00	30.27	H	-4.1
4553.000000	---	33.07	54.00	20.93	H	-4.1
7698.000000	52.07	---	74.00	21.93	H	3.9
7698.000000	---	43.18	54.00	10.82	H	3.9
11261.200000	53.14	---	74.00	20.86	H	8.1
11261.200000	---	46.02	54.00	7.98	H	8.1
17221.400000	56.27	---	68.20	11.93	V	11.9
17813.000000	55.01	---	74.00	18.99	V	11.8
17813.000000	---	45.66	54.00	8.34	H	11.8

802.11ac80 Mode**5210MHz****Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac80 mode 5210MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Fundamental Test with Band Reject Filter

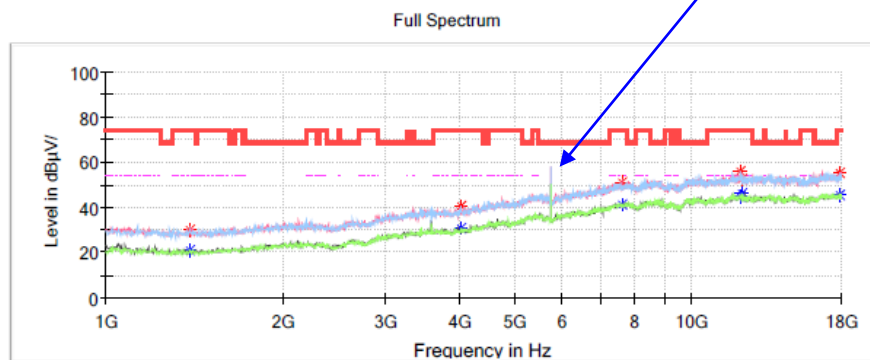
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
1472.600000	30.45	---	74.00	43.55	V	-14.8
1472.600000	---	19.50	54.00	34.50	H	-14.8
4757.000000	43.44	---	74.00	30.56	H	-3.3
4757.000000	---	33.20	54.00	20.80	H	-3.3
7602.800000	---	41.09	54.00	12.91	H	3.9
7602.800000	51.93	---	74.00	22.07	H	3.9
11693.000000	---	44.39	54.00	9.61	V	8.9
11693.000000	54.66	---	74.00	19.34	H	8.9
12121.400000	53.33	---	74.00	20.67	V	9.1
12121.400000	---	45.77	54.00	8.23	V	9.1
17864.000000	55.05	---	74.00	18.95	H	11.8
17864.000000	---	45.25	54.00	8.75	H	11.8

1GHz-18GHz(5725-5850MHz Band):**802.11a Mode:****Low Channel: 5745MHz****Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11a mode 5745MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Fundamental Test with Band Reject Filter

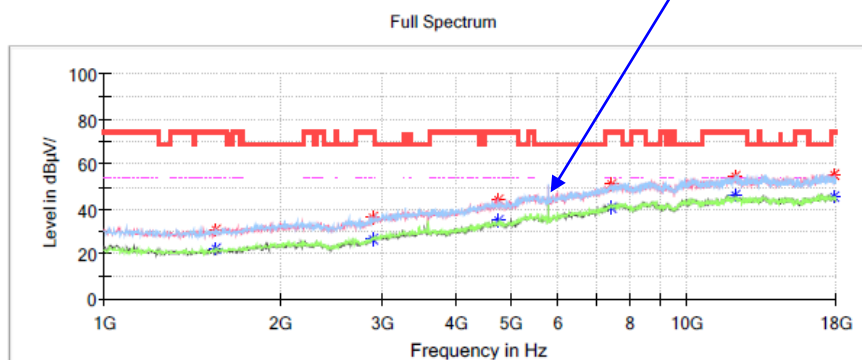
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1387.600000	---	21.13	54.00	32.87	V	-14.9
1387.600000	30.21	---	74.00	43.79	H	-14.9
4029.400000	---	30.94	54.00	23.06	H	-5.8
4029.400000	40.83	---	74.00	33.17	H	-5.8
7582.400000	---	41.41	54.00	12.59	H	3.9
7582.400000	51.40	---	74.00	22.60	V	3.9
12124.800000	---	44.97	54.00	9.03	H	9.1
12124.800000	55.89	---	74.00	18.11	H	9.1
12165.600000	52.63	---	74.00	21.37	H	9.2
12165.600000	---	45.83	54.00	8.17	H	9.2
17918.400000	55.14	---	74.00	18.86	V	11.9
17918.400000	---	45.49	54.00	8.51	V	11.9

Middle Channel: 5785MHz**Common Information**

Project No.: RSHA250211001
 EUT Model: TC120
 Test Mode: Transmitting in 802.11a mode 5785MHz
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 20.3°C
 Humidity: 52%
 Atmospheric Pressure: 102.6kPa
 Test Engineer: Destine Hu
 Test Date: 2025/3/8

Fundamental Test with Band Reject Filter

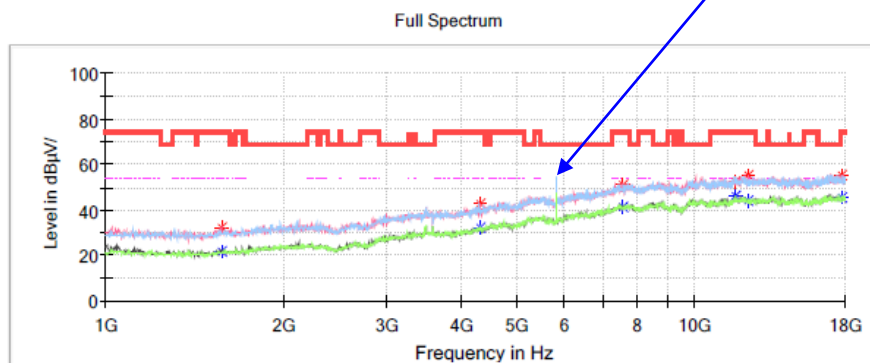
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1557.600000	---	22.30	54.00	31.70	V	-14.4
1557.600000	31.07	---	74.00	42.93	H	-14.4
2890.400000	---	26.88	54.00	27.12	H	-8.8
2890.400000	36.70	---	74.00	37.30	V	-8.8
4743.400000	---	34.79	54.00	19.21	V	-3.4
4743.400000	43.99	---	74.00	30.01	V	-3.4
7422.600000	---	40.74	54.00	13.26	H	3.7
7422.600000	50.95	---	74.00	23.05	H	3.7
12080.600000	54.40	---	74.00	19.60	V	9.1
12080.600000	---	45.91	54.00	8.09	V	9.1
17928.600000	---	45.11	54.00	8.89	V	11.9
17928.600000	55.41	---	74.00	18.59	V	11.9

High Channel: 5825MHz**Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11a mode 5825MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Fundamental Test with Band Reject Filter

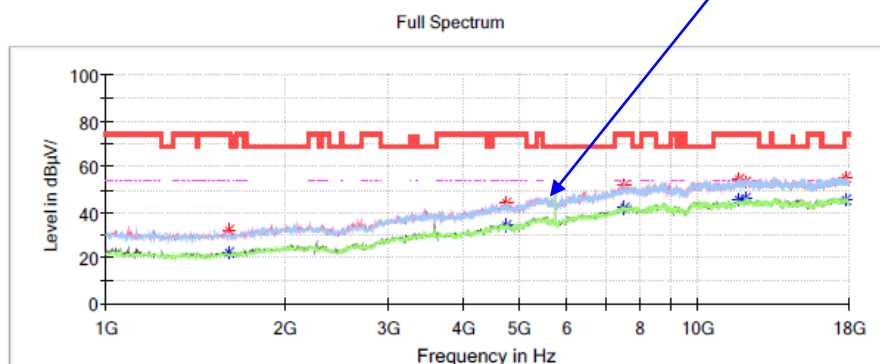
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1571.200000	---	21.93	54.00	32.07	V	-14.3
1571.200000	32.09	---	74.00	41.91	V	-14.3
4315.000000	---	32.01	54.00	21.99	V	-4.9
4315.000000	42.58	---	74.00	31.42	V	-4.9
7534.800000	---	41.21	54.00	12.79	H	3.9
7534.800000	51.27	---	74.00	22.73	H	3.9
11744.000000	---	45.84	54.00	8.16	V	8.9
11744.000000	52.61	---	74.00	21.39	H	8.9
12311.800000	---	44.33	54.00	9.67	H	9.4
12311.800000	55.09	---	74.00	18.91	V	9.4
17772.200000	---	45.16	54.00	8.84	V	11.8
17772.200000	55.53	---	74.00	18.47	H	11.8

802.11ac20 Mode**Low Channel: 5745MHz****Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac20 mode 5745MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3℃
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Fundamental Test with Band Reject Filter

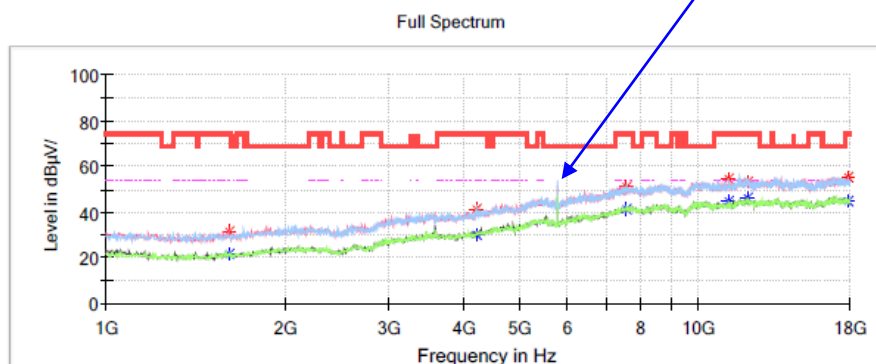
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1612.000000	---	22.28	54.00	31.72	V	-14.1
1612.000000	32.07	---	74.00	41.93	V	-14.1
4733.200000	---	34.36	54.00	19.64	H	-3.4
4733.200000	43.79	---	74.00	30.21	H	-3.4
7528.000000	51.76	---	74.00	22.24	H	3.9
7528.000000	---	41.78	54.00	12.22	V	3.9
11699.800000	---	45.18	54.00	8.82	V	8.9
11699.800000	54.42	---	74.00	19.58	V	8.9
12029.600000	---	45.96	54.00	8.04	H	9.0
12029.600000	53.39	---	74.00	20.61	H	9.0
17789.200000	55.19	---	74.00	18.81	H	11.8
17789.200000	---	45.19	54.00	8.81	H	11.8

Middle Channel: 5785MHz**Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac20 mode 5785MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer:
Test Date: 2025/3/8

Fundamental Test with Band Reject Filter

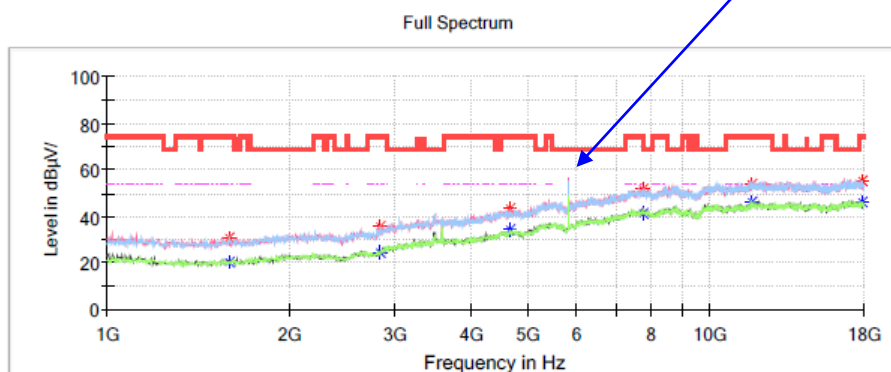
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
1608.600000	---	21.57	54.00	32.43	H	-14.1
1608.600000	31.27	---	74.00	42.73	V	-14.1
4206.200000	---	30.40	54.00	23.60	V	-5.2
4206.200000	41.45	---	74.00	32.55	H	-5.2
7572.200000	---	41.46	54.00	12.54	V	3.9
7572.200000	51.39	---	74.00	22.61	V	3.9
11237.400000	---	44.61	54.00	9.39	V	8.0
11237.400000	54.80	---	74.00	19.20	H	8.0
12121.400000	53.00	---	74.00	21.00	V	9.1
12121.400000	---	45.90	54.00	8.10	H	9.1
17877.600000	---	44.80	54.00	9.20	H	11.9
17877.600000	55.08	---	74.00	18.92	H	11.9

High Channel: 5825MHz**Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac20 mode 5825MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Fundamental Test with Band Reject Filter

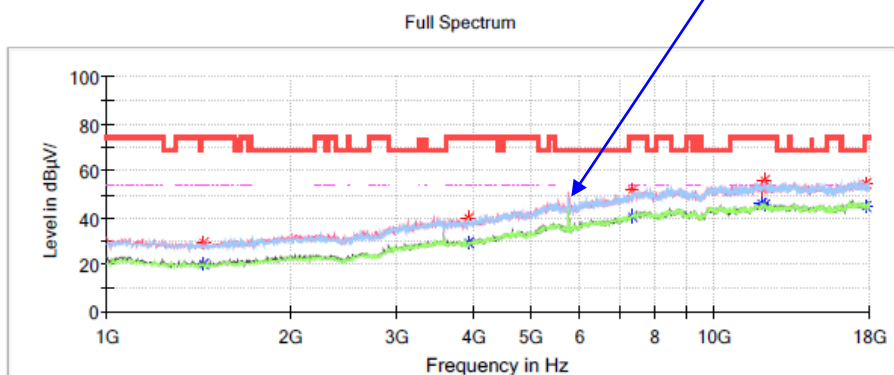
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1595.000000	30.86	---	74.00	43.14	H	-14.2
1595.000000	---	20.59	54.00	33.41	H	-14.2
2842.800000	---	24.37	54.00	29.63	H	-9.0
2842.800000	35.57	---	74.00	38.43	H	-9.0
4655.000000	43.08	---	74.00	30.92	V	-3.7
4655.000000	---	34.20	54.00	19.80	V	-3.7
7732.000000	---	41.41	54.00	12.59	H	3.9
7732.000000	52.00	---	74.00	22.00	H	3.9
11767.800000	---	46.08	54.00	7.92	H	8.9
11767.800000	54.01	---	74.00	19.99	V	8.9
17881.000000	55.44	---	74.00	18.56	H	11.9
17881.000000	---	45.81	54.00	8.19	H	11.9

802.11ac40 Mode**5755MHz****Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac40 mode 5755MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Fundamental Test with Band Reject Filter

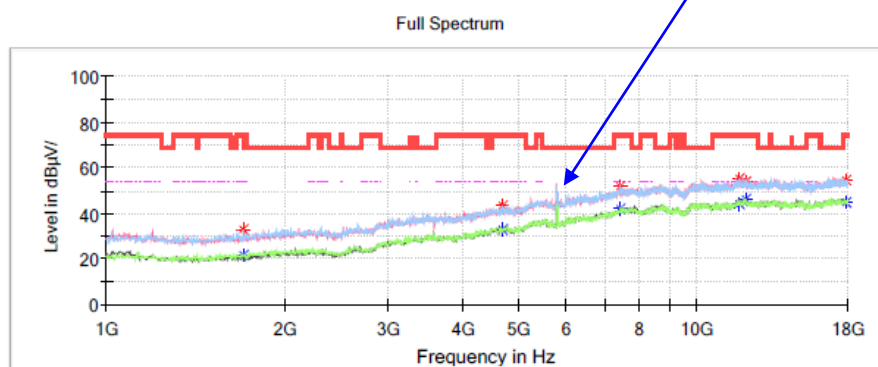
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
1445.400000	29.69	---	74.00	44.31	V	-14.8
1445.400000	---	20.35	54.00	33.65	V	-14.8
3944.400000	39.72	---	74.00	34.28	H	-6.0
3944.400000	---	29.33	54.00	24.67	V	-6.0
7341.000000	---	40.75	54.00	13.25	V	3.5
7341.000000	51.74	---	74.00	22.26	V	3.5
11961.600000	---	46.01	54.00	7.99	H	9.0
11961.600000	52.24	---	74.00	21.76	V	9.0
12090.800000	---	45.37	54.00	8.63	V	9.1
12090.800000	55.65	---	74.00	18.35	V	9.1
17765.400000	54.78	---	74.00	19.22	H	11.8
17765.400000	---	44.46	54.00	9.54	V	11.8

5795MHz**Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac40 mode 5795MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Fundamental Test with Band Reject Filter

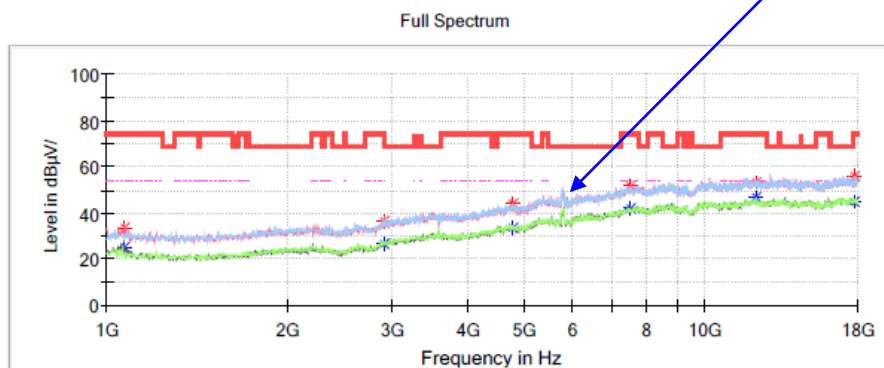
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1703.800000	32.54	---	74.00	41.46	H	-13.5
1703.800000	---	21.72	54.00	32.28	H	-13.5
4678.800000	43.39	---	74.00	30.61	H	-3.6
4678.800000	---	32.71	54.00	21.29	V	-3.6
7419.200000	51.78	---	74.00	22.22	V	3.7
7419.200000	---	41.71	54.00	12.29	H	3.7
11815.400000	---	43.97	54.00	10.03	H	8.9
11815.400000	55.03	---	74.00	18.97	H	8.9
12094.200000	---	46.41	54.00	7.59	V	9.1
12094.200000	53.52	---	74.00	20.48	V	9.1
17901.400000	54.84	---	74.00	19.16	H	11.9
17901.400000	---	44.86	54.00	9.14	V	11.9

802.11ac80 Mode**5775MHz****Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac80 mode 5775MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Fundamental Test with Band Reject Filter

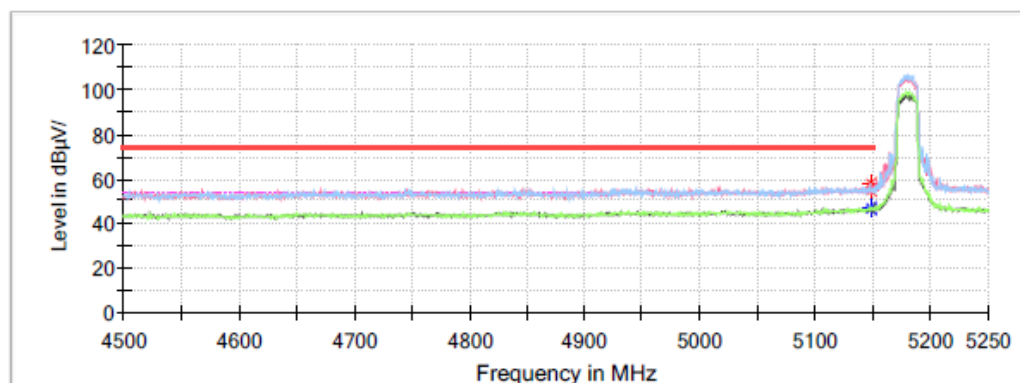
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1071.400000	---	25.50	54.00	28.50	V	-15.4
1071.400000	33.38	---	74.00	40.62	V	-15.4
2897.200000	---	26.64	54.00	27.36	H	-8.8
2897.200000	36.32	---	74.00	37.68	H	-8.8
4780.800000	---	33.49	54.00	20.51	H	-3.2
4780.800000	44.13	---	74.00	29.87	H	-3.2
7514.400000	---	41.92	54.00	12.08	H	3.9
7514.400000	51.46	---	74.00	22.54	H	3.9
12169.000000	---	46.59	54.00	7.41	H	9.2
12169.000000	53.27	---	74.00	20.73	V	9.2
17809.600000	---	44.83	54.00	9.17	V	11.8
17809.600000	56.14	---	74.00	17.86	V	11.8

Restricted Bands Emissions Test (5150-5250MHz Band):**802.11a Mode:****Common Information**

Project No.:	RSHA250211001
EUT Model:	TC120
Test Mode:	Transmitting in 802.11a mode low channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	20.3°C
Humidity:	52%
Atmospheric Pressure:	102.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/3/8

Full Spectrum

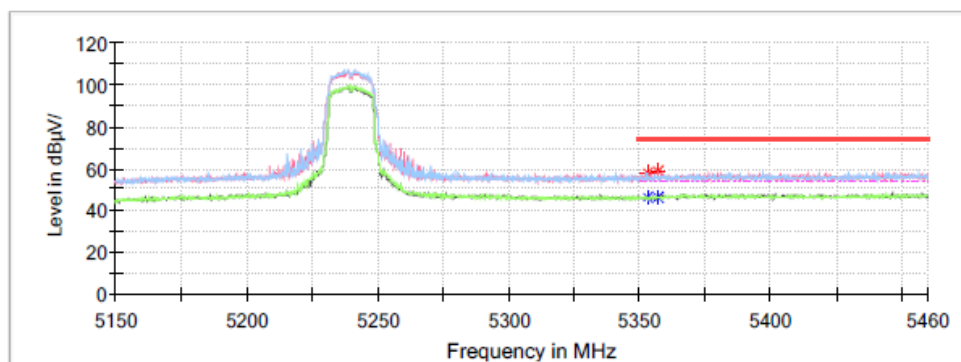
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5148.300000	---	46.52	54.00	7.48	V	8.2
5148.300000	57.98	---	74.00	16.02	H	8.2
5148.600000	---	47.26	54.00	6.74	H	8.2
5148.600000	54.76	---	74.00	19.24	V	8.2

Common Information

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11a mode High channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Full Spectrum



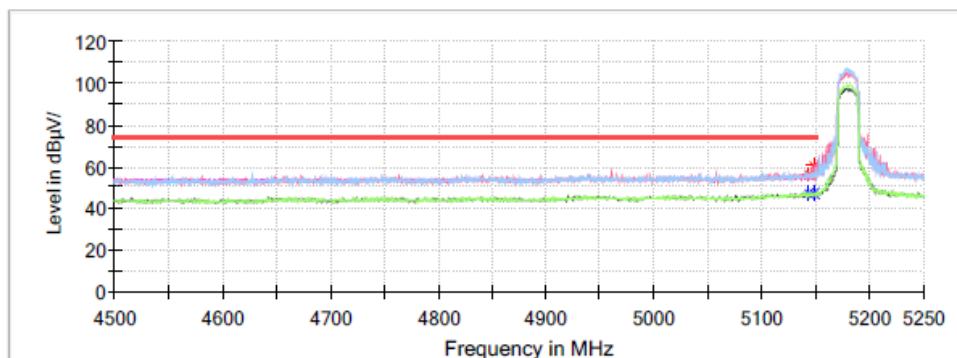
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5352.988000	---	46.24	54.00	7.76	H	8.7
5352.988000	58.03	---	74.00	15.97	H	8.7
5356.956000	---	45.94	54.00	8.06	V	8.7
5356.956000	58.43	---	74.00	15.57	V	8.7

802.11ac20 Mode:**Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac20 mode low channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Full Spectrum

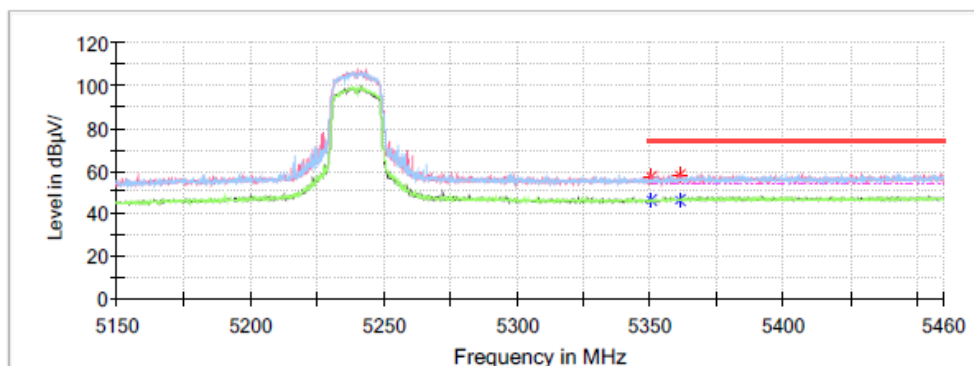
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5142.900000	56.23	---	74.00	17.77	H	8.2
5142.900000	---	47.16	54.00	6.84	H	8.2
5147.700000	60.01	---	74.00	13.99	V	8.2
5147.700000	---	46.71	54.00	7.29	V	8.2

Common Information

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac20 mode High channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Full Spectrum



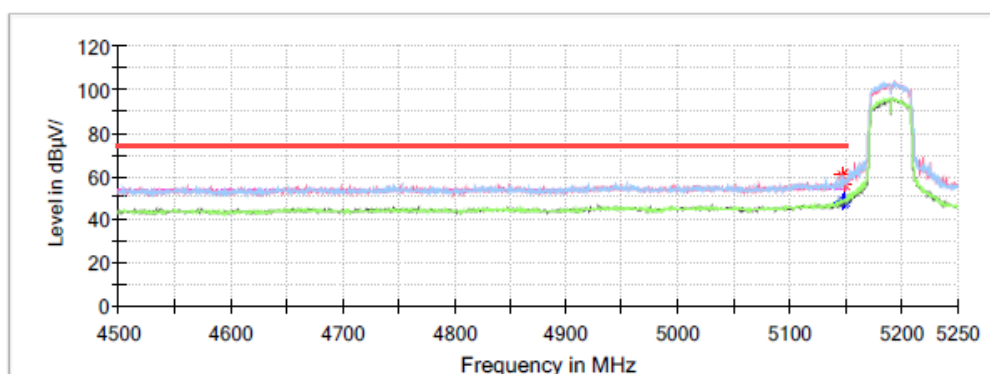
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5350.136000	---	45.81	54.00	8.19	H	8.7
5350.136000	56.80	---	74.00	17.20	V	8.7
5360.924000	---	46.24	54.00	7.76	V	8.8
5360.924000	57.71	---	74.00	16.29	V	8.8

802.11ac40 Mode:**Common Information**

Project No.:	RSHA250211001
EUT Model:	TC120
Test Mode:	Transmitting in 802.11ac40 mode low channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	20.3℃
Humidity:	52%
Atmospheric Pressure:	102.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/3/8

Full Spectrum

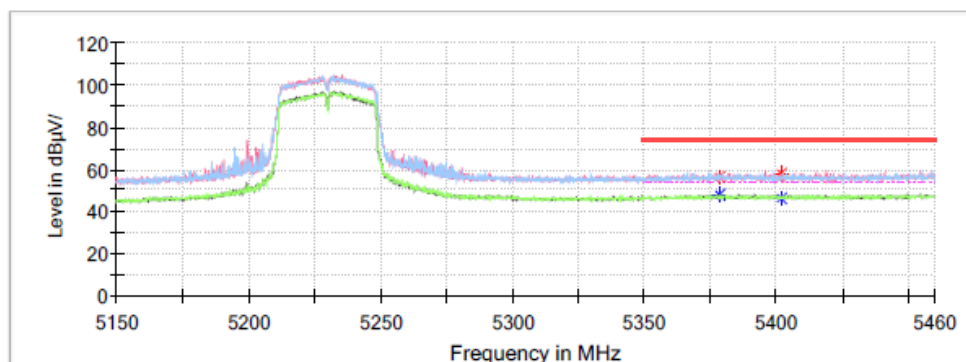
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5146.500000	---	47.53	54.00	6.47	H	8.2
5146.500000	60.02	---	74.00	13.98	H	8.2
5147.400000	---	48.88	54.00	5.12	H	8.2
5147.400000	55.83	---	74.00	18.17	H	8.2

Common Information

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac40 mode High channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3℃
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Full Spectrum



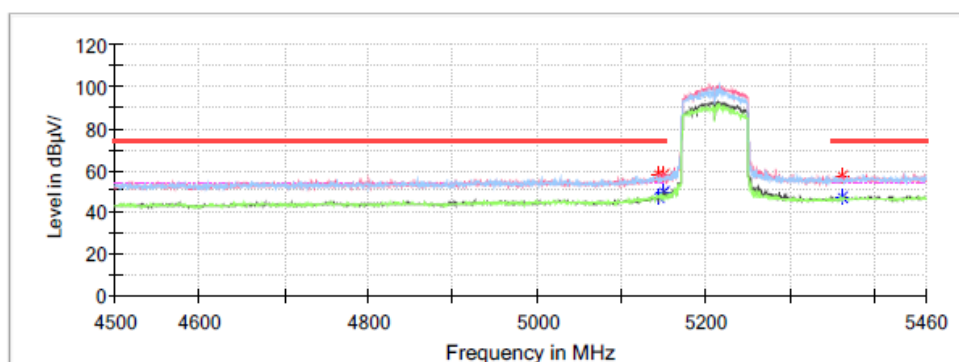
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5378.160000	56.17	---	74.00	17.83	V	8.8
5378.160000	---	47.53	54.00	6.47	V	8.8
5401.720000	---	46.45	54.00	7.55	V	8.9
5401.720000	58.27	---	74.00	15.73	V	8.9

802.11ac80 Mode:**Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac80 mode 5210MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Full Spectrum

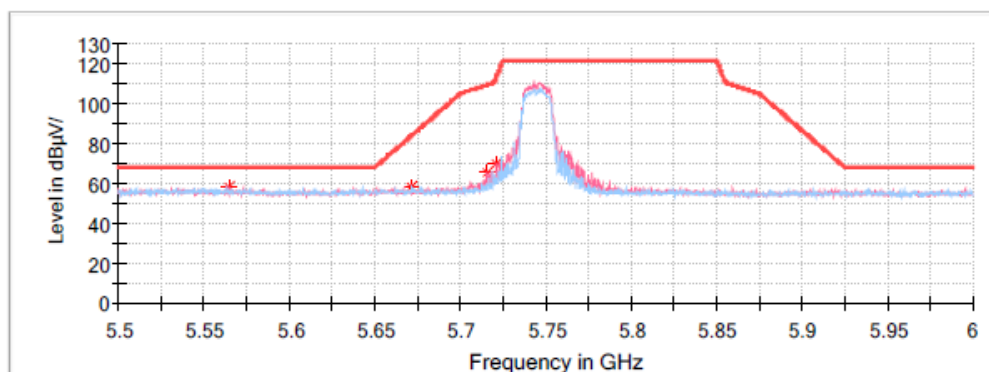
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5143.968000	57.87	---	74.00	16.13	V	8.2
5143.968000	---	46.87	54.00	7.13	V	8.2
5148.960000	57.79	---	74.00	16.21	V	8.2
5148.960000	---	49.66	54.00	4.34	V	8.2
5360.544000	---	46.79	54.00	7.21	H	8.8
5360.544000	56.95	---	74.00	17.05	V	8.8

Band edge Emissions Test (5725-5850MHz Band):**802.11a Mode:****Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11a mode 5745MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Full Spectrum

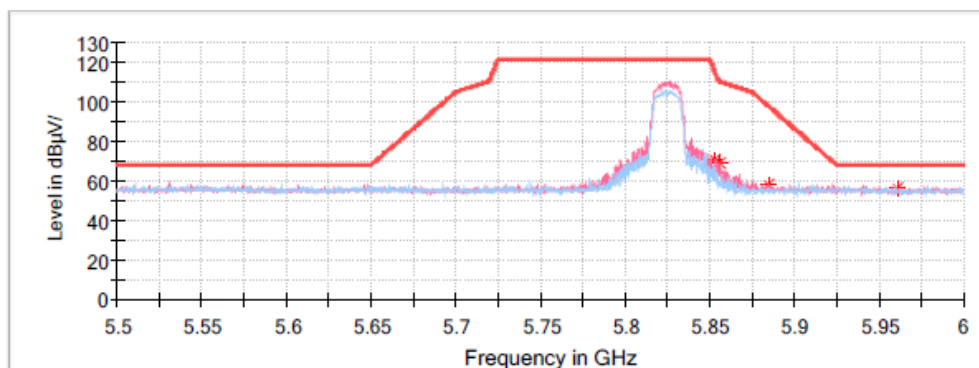
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5564.200000	57.82	---	68.20	10.38	V	9.0
5671.600000	58.31	---	84.18	25.88	H	8.9
5715.200000	65.32	---	109.46	44.14	V	8.9
5721.000000	69.69	---	113.08	43.39	V	8.9

Common Information

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11a mode 5825MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Full Spectrum



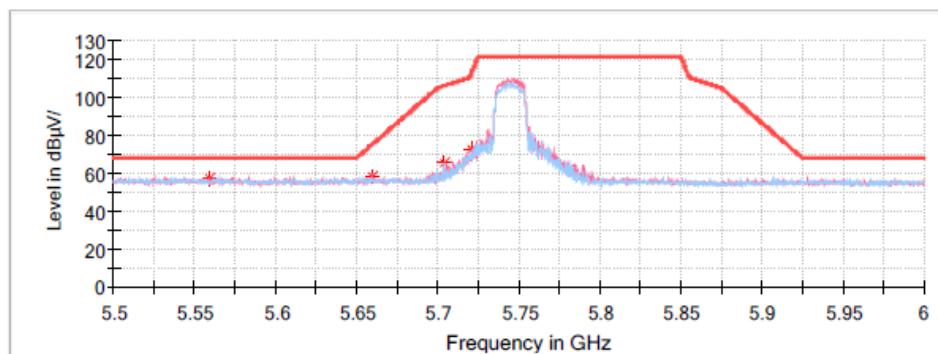
Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5853.200000	70.73	---	114.90	44.17	V	8.7
5856.400000	69.53	---	110.41	40.88	V	8.7
5885.000000	58.51	---	97.80	39.29	V	8.7
5960.600000	56.48	---	68.20	11.72	V	8.6

802.11ac20 Mode:**Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac20 mode 5745MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3℃
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Full Spectrum

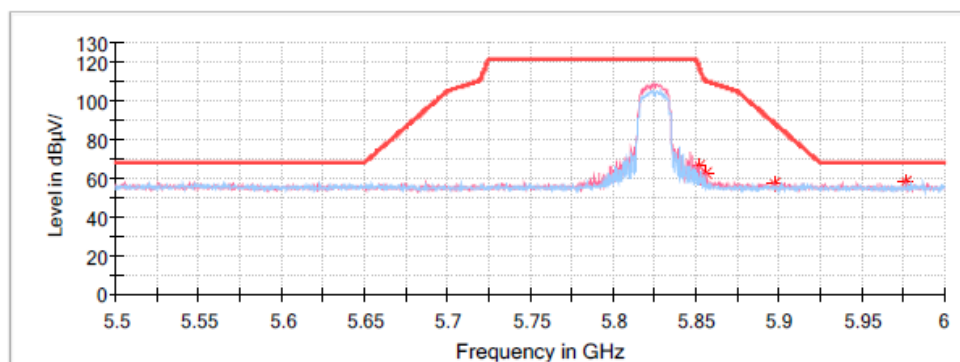
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5558.800000	57.54	---	68.20	10.66	V	9.0
5659.200000	58.40	---	75.01	16.61	V	8.9
5703.600000	65.90	---	106.21	40.31	H	8.9
5721.400000	72.55	---	113.99	41.44	V	8.9

Common Information

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac20 mode 5825MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Full Spectrum



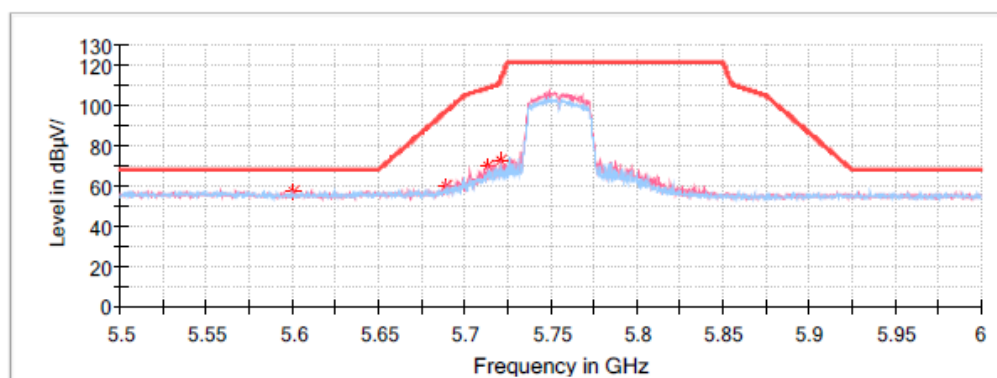
Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5851.800000	66.60	---	118.10	51.50	V	8.7
5856.600000	62.48	---	110.35	47.87	V	8.7
5897.400000	57.64	---	88.62	30.99	V	8.7
5977.000000	57.77	---	68.20	10.43	V	8.6

802.11ac40 Mode:**Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac40 mode 5755MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Full Spectrum

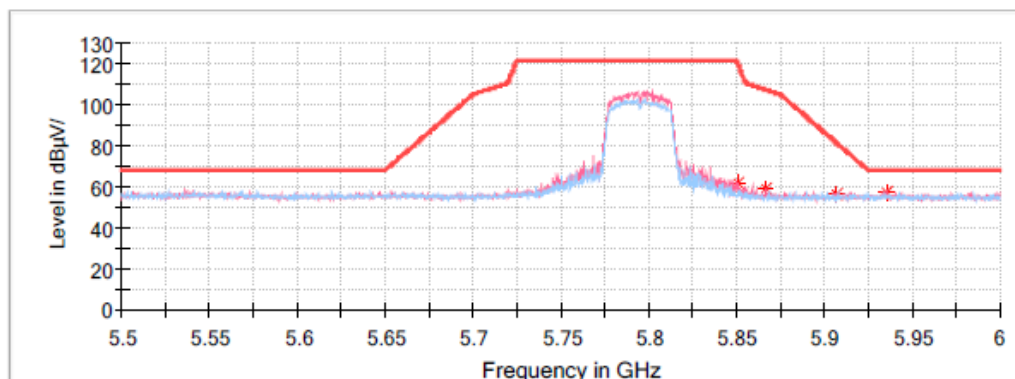
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5600.600000	57.14	---	68.20	11.06	V	9.0
5689.000000	60.27	---	97.06	36.79	V	8.9
5713.200000	69.60	---	108.90	39.30	V	8.9
5721.200000	72.78	---	113.54	40.75	V	8.9

Common Information

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac40 mode 5795MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3℃
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Full Spectrum



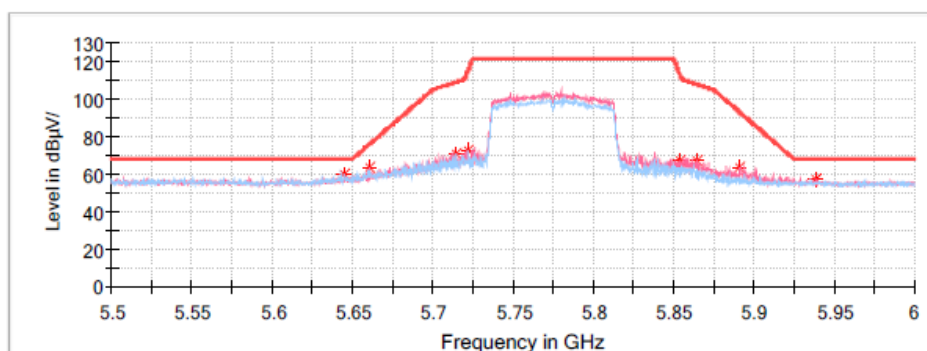
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5851.200000	61.82	---	119.46	57.65	V	8.7
5866.800000	58.70	---	107.50	48.80	V	8.7
5906.600000	56.56	---	81.82	25.26	V	8.7
5935.000000	56.89	---	68.20	11.31	V	8.6

802.11ac80 Mode:**Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11ac80 mode 5775MHz
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Full Spectrum

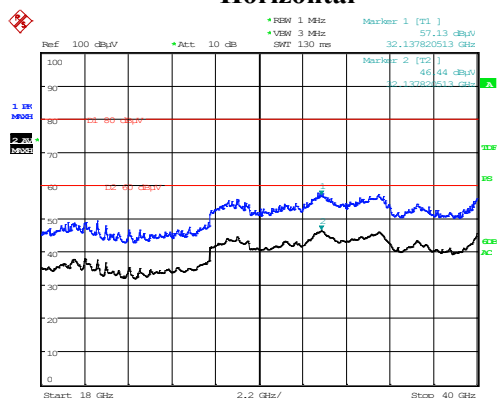
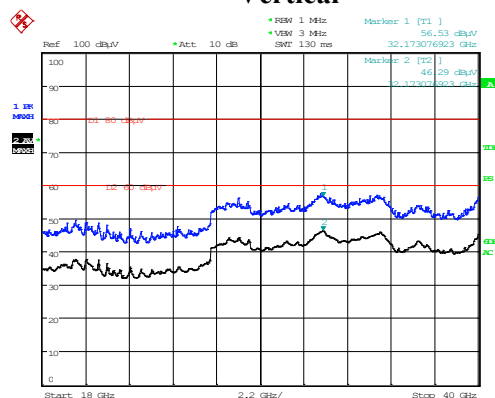
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5645.000000	59.77	---	68.20	8.43	H	9.0
5660.400000	63.61	---	75.90	12.28	V	8.9
5714.800000	70.68	---	109.34	38.67	H	8.9
5722.200000	72.70	---	115.82	43.12	H	8.9
5853.800000	67.08	---	113.54	46.46	V	8.7
5864.400000	67.07	---	108.17	41.10	V	8.7
5891.200000	63.52	---	93.21	29.69	V	8.7
5938.400000	56.90	---	68.20	11.30	V	8.6

18 GHz - 40 GHz:

(Note: The test distance is 1.5m, so the limit for peak is 80 dB μ V/m, Average is 60 dB μ V/m)

Transmitting in maximum output power mode and channel of 802.11a mode high channel of 5180 MHz

Horizontal**Vertical**

Project No.: RSHA250211001
Date: 24.APR.2025 05:29:19

Tester: Hugh Wu

Project No.: RSHA250211001
Date: 24.APR.2025 06:04:29

Tester: Hugh Wu

Frequency (GHz)	Max Peak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
32.14	---	46.44	60	13.56	H	23.28
32.14	57.13	---	80	22.87	H	23.28
32.17	---	46.29	60	13.71	V	23.31
32.17	56.53	---	80	23.47	V	23.31

Note: The test distance is 1.5m. The limit is 80dB μ V/m(Peak) and 60dB μ V/m(Average).

EMISSION BANDWIDTH**Environmental Conditions & Test Information**

Test Date:	2025-03-04
Temperature:	23.7 °C
Relative Humidity:	51 %
ATM Pressure:	101.8 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant*5150-5250 MHz:*

Test mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)
802.11 a	Low	5180	20.291
	Middle	5200	20.342
	High	5240	19.870
802.11 ac20	Low	5180	20.544
	Middle	5200	20.544
	High	5240	20.645
802.11 ac40	Low	5190	41.041
	High	5230	41.141
802.11 ac80	/	5210	81.481

Test mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)
802.11 a	Low	5180	16.500
	Middle	5200	16.450
	High	5240	16.450
802.11 ac20	Low	5180	17.550
	Middle	5200	17.550
	High	5240	17.600
802.11 ac40	Low	5190	36.100
	High	5230	36.100
802.11 ac80	/	5210	75.200

Note: the 99% Occupied Bandwidth have not fall into the band 5250-5350MHz.

5725-5850MHz:

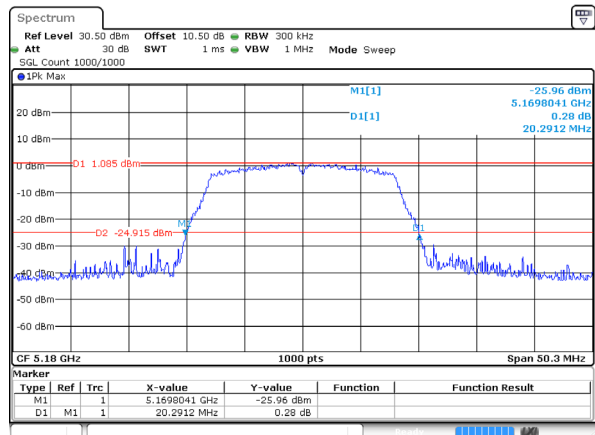
Test mode	Channel	Frequency (MHz)	6dB Bandwidth(MHz)	Limit (MHz)
802.11 a	Low	5745	15.22	0.5
	Middle	5785	15.42	0.5
	High	5825	15.42	0.5
802.11 ac20	Low	5745	15.22	0.5
	Middle	5785	15.17	0.5
	High	5825	15.42	0.5
802.11 ac40	Low	5755	35.34	0.5
	High	5795	35.34	0.5
802.11 ac80	/	5775	75.48	0.5

Test mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)
802.11 a	Low	5745	16.50
	Middle	5785	16.50
	High	5825	16.50
802.11 ac20	Low	5745	17.60
	Middle	5785	17.65
	High	5825	17.60
802.11 ac40	Low	5755	36.20
	High	5795	36.20
802.11 ac80	/	5775	75.40

Note: the 99% Occupied Bandwidth have not fall into the band 5470-5725MHz.

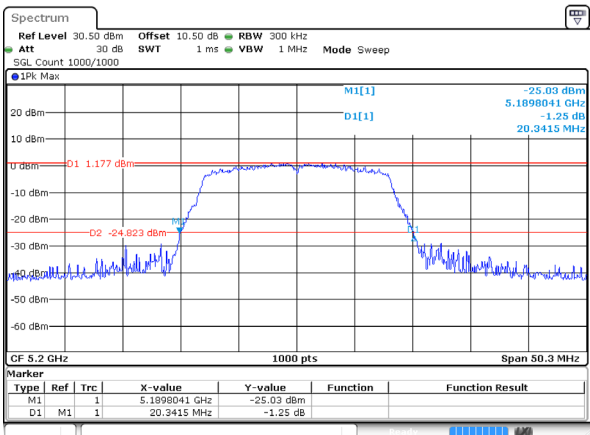
26dB Bandwidth

802.11a_5180MHz



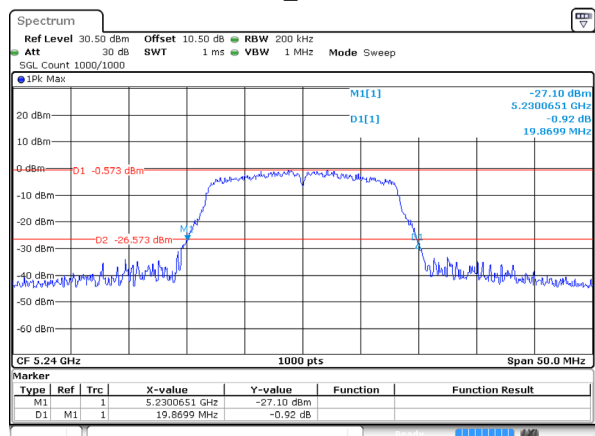
ProjectNo: RSHA250211001 Tester:Neil Zhou
Date: 4.MAR.2025 23:25:20

802.11a_5200MHz



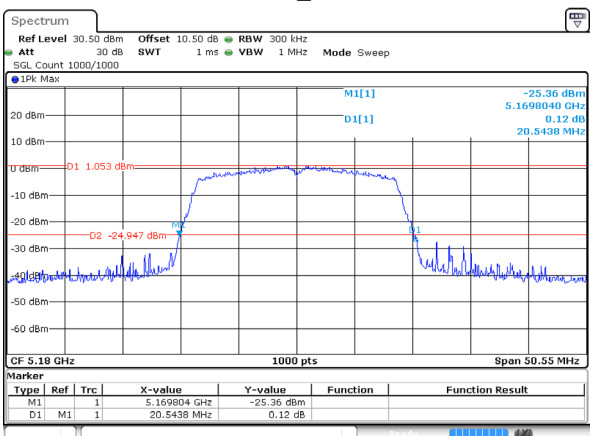
ProjectNo: RSHA250211001 Tester:Neil Zhou
Date: 4.MAR.2025 23:26:19

802.11a_5240MHz



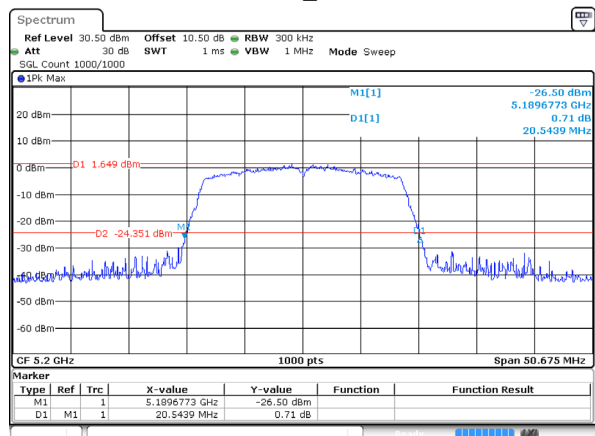
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Date: 4.MAR.2025 23:26:58

802.11ac20_5180MHz



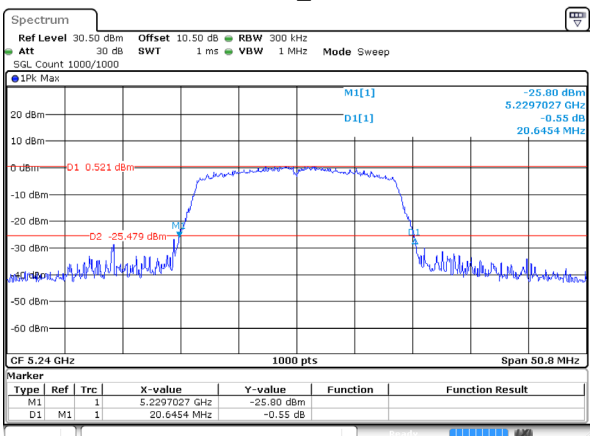
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Date: 4.MAR.2025 23:28:02

802.11ac20_5200MHz



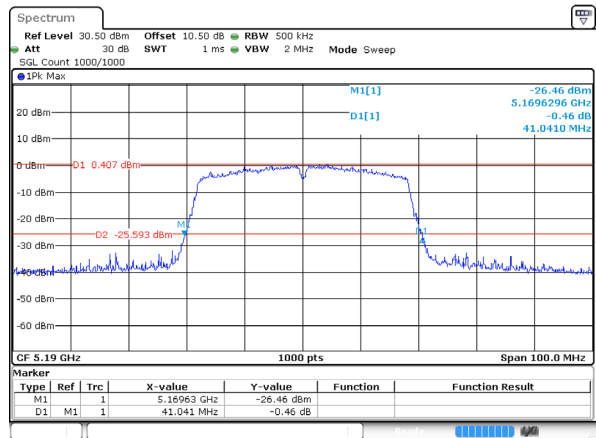
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Date: 4.MAR.2025 23:29:15

802.11ac20_5240MHz



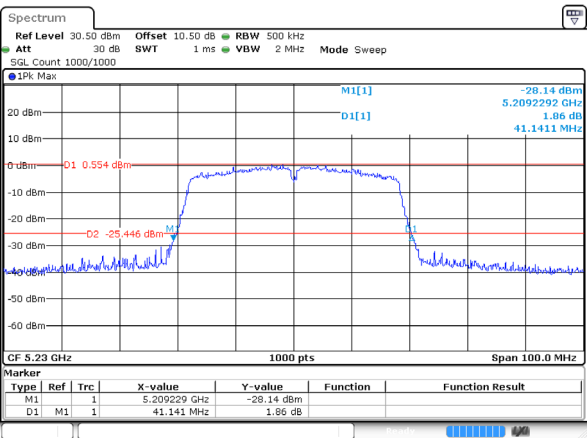
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Date: 4.MAR.2025 23:30:01

802.11ac40_5190MHz



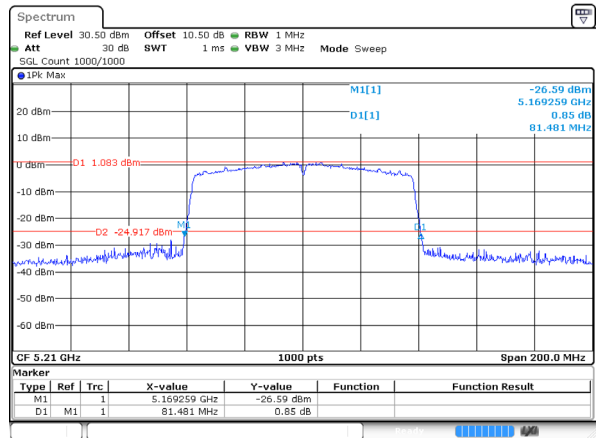
ProjectNo: RSHA250211001 Tester:Neil Zhou
Date: 4.MAR.2025 23:47:53

802.11ac40_5230MHz



ProjectNo: RSHA250211001 Tester:Neil Zhou
Date: 4.MAR.2025 23:48:17

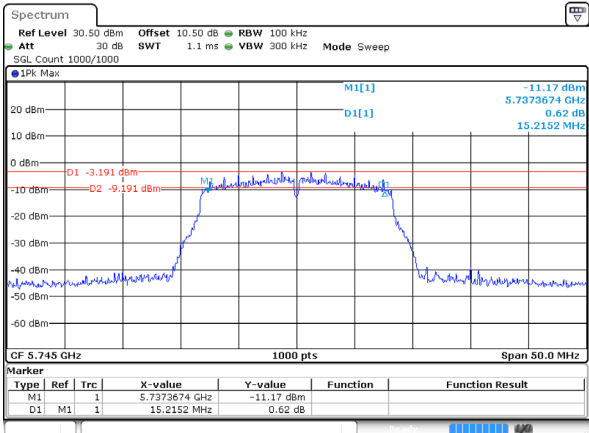
802.11ac80_5210MHz



ProjectNo: RSHA250211001 Tester:Neil Zhou
Date: 4.MAR.2025 23:49:50

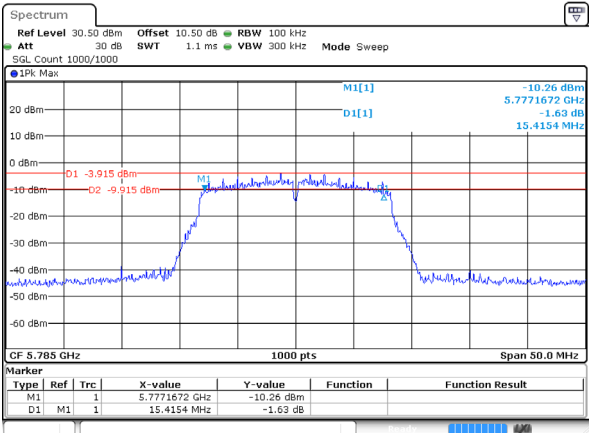
6dB Emission Bandwidth
5725-5850 MHz Band:

802.11a_5745MHz



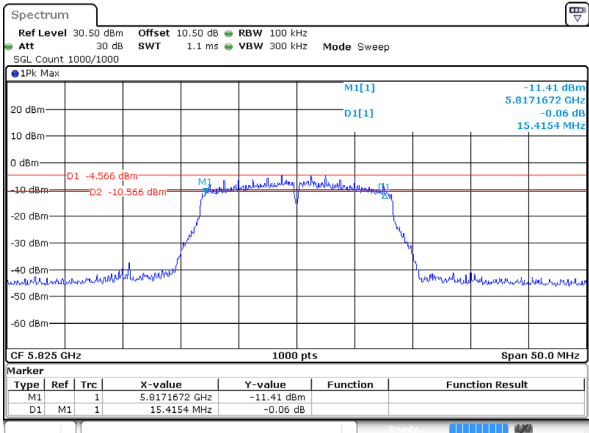
ProjectNo: RSHA250211001 Tester:Neil Zhou
Date: 4.MAR.2025 23:51:08

802.11a_5785MHz



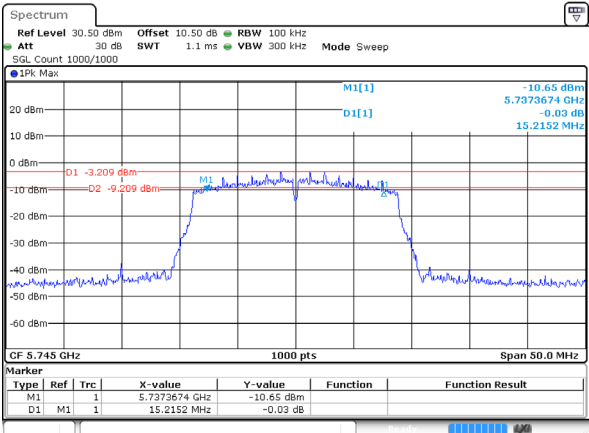
ProjectNo: RSHA250211001 Tester:Neil Zhou
Date: 4.MAR.2025 23:51:51

802.11a_5825MHz



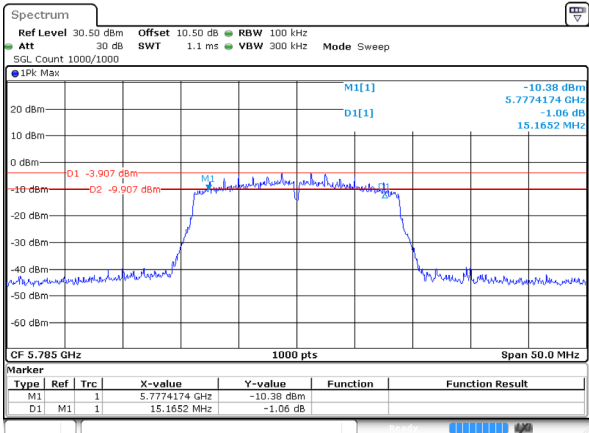
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Date: 4.MAR.2025 23:52:29

802.11ac20_5745MHz



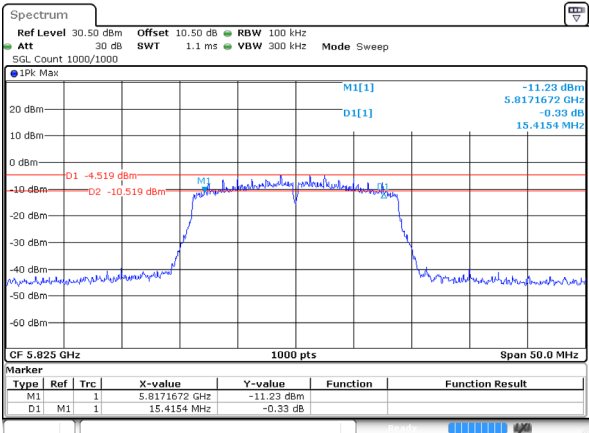
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Date: 4.MAR.2025 23:53:25

802.11ac20_5785MHz



ProjectNo: RSHA250211001 Tester:Neil Zhou
Date: 4.MAR.2025 23:54:14

802.11ac20_5825MHz



ProjectNo: RSHA250211001 Tester:Neil Zhou
Date: 4.MAR.2025 23:55:14