

TEST REPORT

FCC ID. :	2BTW9CT-1250	
Test Report No..... :	TCT251223E016	
Date of issue..... :	Dec. 30, 2025	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	VASTHORIZON TECH CO., LTD	
Address..... :	100 N. Howard St. # 6078, SPOKANE, WASHINGTON 99201, United States	
Manufacturer's name ... :	SHENZHEN XINTAIDE TECHNOLOGY CO., LTD	
Address..... :	Room 401, 4th Floor, Building A Tianrun Smart Innovation Industrial Park No. 23 Jiwei 1st Road Jiwei Community, Hangcheng Subdistrict Bao'an District, Shenzhen, China	
Standard(s)	FCC CFR Title 47 Part 15 Subpart C	
Product Name..... :	USB CHARGER	
Trade Mark	N/A	
Model/Type reference..... :	CT-1250, XTD2037-0503000BH	
Rating(s)..... :	AC 120V/60Hz	
Date of receipt of test item	Dec. 23, 2025	
Date (s) of performance of test..... :	Dec. 23, 2025 ~ Dec. 30, 2025	
Tested by (+signature) ... :	Aaron MO	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

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1. General Product Information

1.1. EUT description

Product Name.....:	USB CHARGER
Model/Type reference.....:	CT-1250
Sample Number.....:	TCT251223E016-0101
Operation Frequency	110.03kHz~147.44kHz
Output power.....:	10W
Modulation Technology	Load modulation
Antenna Type.....:	Inductive loop coil Antenna
Rating(s).....:	AC 120V/60Hz

1.2. Model(s) list

No.	Model No.	Tested with
1	CT-1250	☒
Other models	XTD2037-0503000BH	☐

Note: CT-1250 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of CT-1250 can represent the remaining models.

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Spurious Emission	§15.209(a)(f)	PASS
20dB Bandwidth	§15.215(c)	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. General Information

3.1. Test environment and mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	22.8 °C	25.7 °C
Humidity:	49 % RH	51 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Mode:		
Mode 1	Charging + Wireless Output	
The sample was placed 0.1m for the measurement below above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case (Z axis) are shown in Test Results of the following pages.		

3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Load	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4. Facilities and Accreditations

4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- A2LA-No.: 4320.01

SHENZHEN TONGCE TESTING LAB

The testing lab has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

5. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203

15.203 requirement:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

E.U.T Antenna:

The antennas are inductive loop coil antenna which permanently attached.

6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2020														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	Reference Plane 40cm Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m														
Test Mode:	Refer to item 3.1														
Test Procedure:	1. The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2020 on conducted measurement.														
Test Result:	PASS														

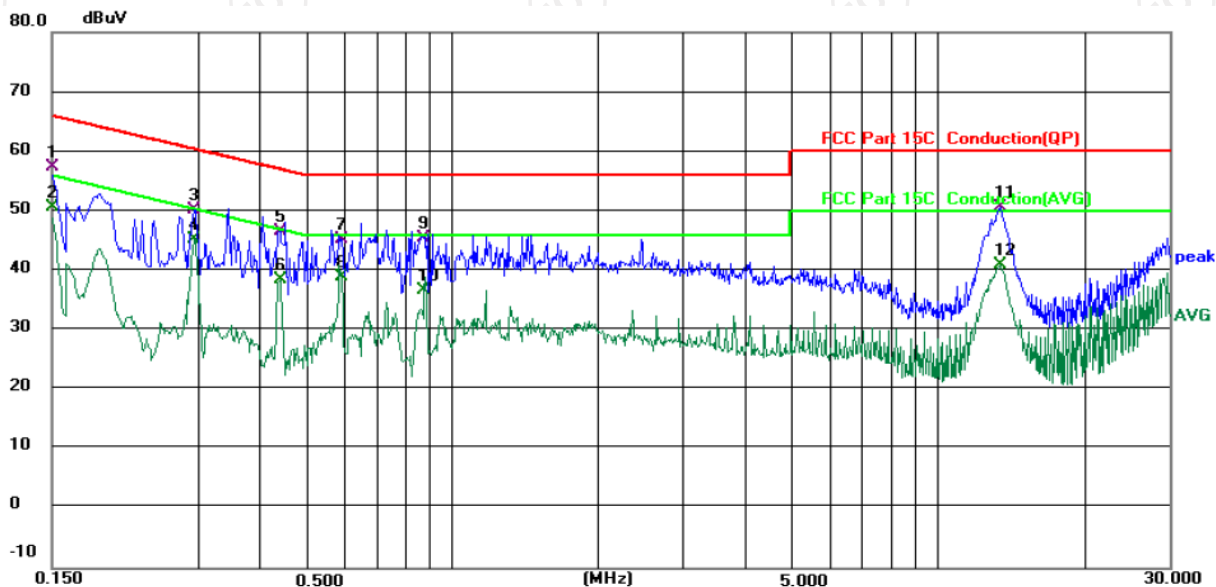
6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)					
Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
EMI Test Receiver	R&S	ESCI3	100898	Jun. 26, 2025	Jun. 25, 2026
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 21, 2025	Jan. 20, 2026
Attenuator	N/A	10dB	164080	Jun. 26, 2025	Jun. 25, 2026
Line-5	TCT	CE-05	/	Jun. 26, 2025	Jun. 25, 2026
EMI Test Software	EZ_EMCC	EMEC-3A1	1.1.4.2	/	/

6.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Phase: L1

Temperature: 22.8 (°C)

Humidity: 49 %

Limit: FCC Part 15C Conduction(QP)

Power: AC 120 V/60 Hz

No.	Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measure- ment dBμV	Limit dBμV	Over dB	Detector	Comment
1		0.1500	47.09	10.21	57.30	66.00	-8.70	QP	
2		0.1500	40.44	10.21	50.65	56.00	-5.35	AVG	
3		0.2938	40.07	10.19	50.26	60.42	-10.16	QP	
4	*	0.2938	35.08	10.19	45.27	50.42	-5.15	AVG	
5		0.4420	36.43	10.17	46.60	57.02	-10.42	QP	
6		0.4420	28.42	10.17	38.59	47.02	-8.43	AVG	
7		0.5916	35.04	10.16	45.20	56.00	-10.80	QP	
8		0.5916	28.73	10.16	38.89	46.00	-7.11	AVG	
9		0.8780	35.21	10.18	45.39	56.00	-10.61	QP	
10		0.8780	26.58	10.18	36.76	46.00	-9.24	AVG	
11		13.4260	39.91	10.72	50.63	60.00	-9.37	QP	
12		13.4260	30.24	10.72	40.96	50.00	-9.04	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

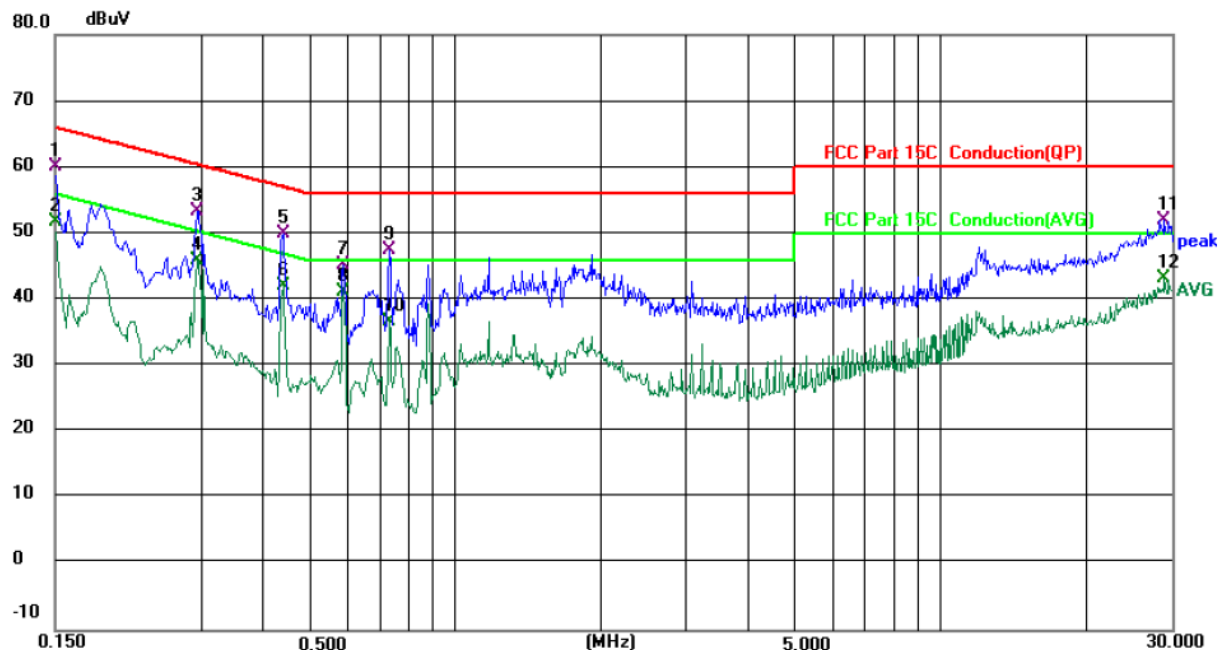
Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Phase: **N**

Temperature: 22.8 (°C)

Humidity: 49 %

Limit: FCC Part 15C Conduction(QP)

Power: AC 120 V/60 Hz

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	49.87	10.19	60.06	66.00	-5.94	QP	
2	*	0.1500	41.58	10.19	51.77	56.00	-4.23	AVG	
3		0.2938	43.08	10.18	53.26	60.42	-7.16	QP	
4		0.2938	35.82	10.18	46.00	50.42	-4.42	AVG	
5		0.4420	39.78	10.20	49.98	57.02	-7.04	QP	
6		0.4420	31.86	10.20	42.06	47.02	-4.96	AVG	
7		0.5899	35.10	10.19	45.29	56.00	-10.71	QP	
8		0.5899	31.01	10.19	41.20	46.00	-4.80	AVG	
9		0.7338	37.19	10.20	47.39	56.00	-8.61	QP	
10		0.7338	26.51	10.20	36.71	46.00	-9.29	AVG	
11		28.9500	40.28	11.70	51.98	60.00	-8.02	QP	
12		28.9500	31.47	11.70	43.17	50.00	-6.83	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

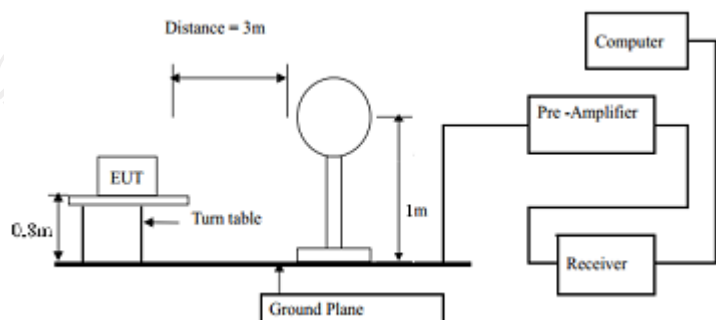
Margin (dB) = Measurement (dBμV) – Limits (dBμV)

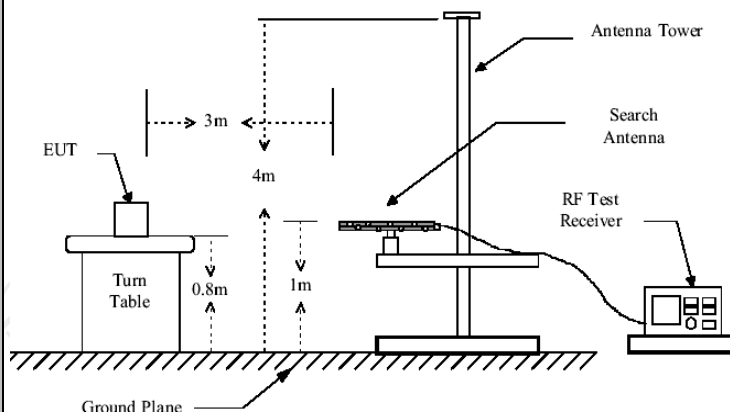
Q.P. =Quasi-Peak AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz

6.3. Radiated Spurious Emission Measurement

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10: 2020				
Frequency Range:	9 kHz to 25 GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Operation mode:	Refer to item 3.1				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
Limit:	Frequency	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	30		30	
	30-88	100		3	
	88-216	150		3	
	216-960	200		3	
	Above 960	500		3	
Test setup:	For radiated emissions below 30MHz				
					
	30MHz to 1GHz				



Test Procedure:

1. For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
4. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=120 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.

For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Test mode:

Refer to section 3.1 for details

Test results:

PASS

6.3.2. Test Instruments

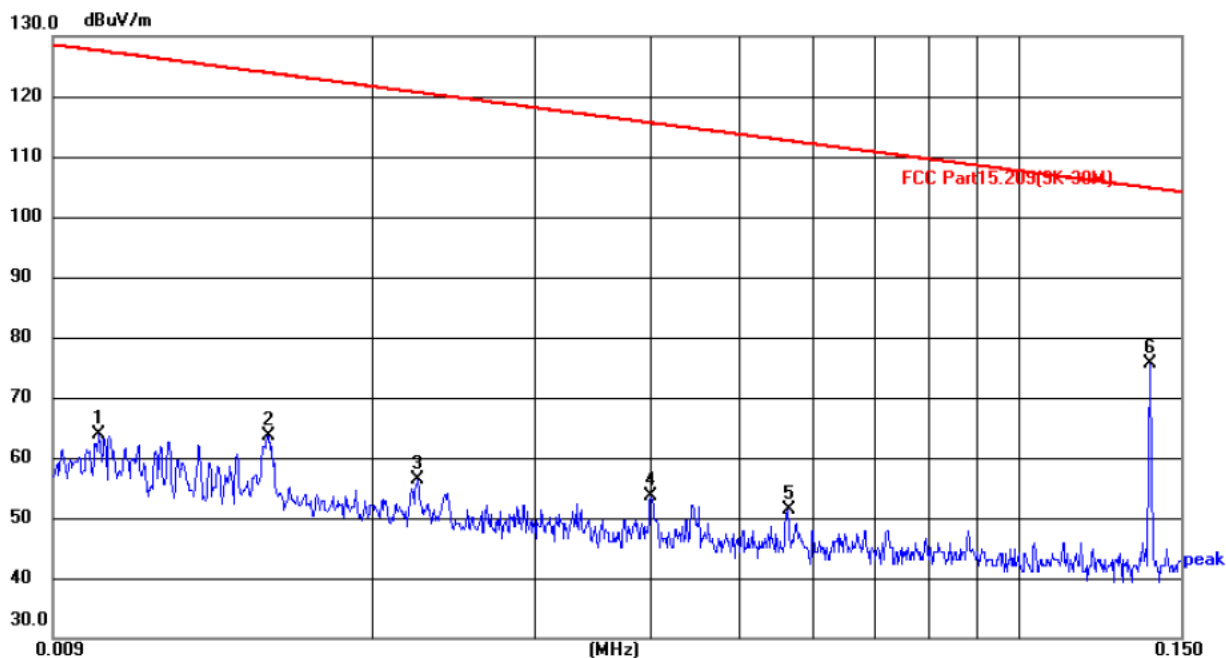
Radiated Emission Test Site (966)					
Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
EMI Test Receiver	R&S	ESCI7	100529	Jan. 21, 2025	Jan. 20, 2026
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025	Jun. 25, 2026
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Jan. 21, 2025	Jan. 20, 2026
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Apr. 11, 2025	Apr. 10, 2026
Pre-amplifier	HP	8447D	2727A05017	Jun. 26, 2025	Jun. 25, 2026
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 30, 2025	Jun. 29, 2026
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 29, 2025	Jun. 28, 2026
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 29, 2025	Jun. 28, 2026
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Jan. 24, 2025	Jan. 23, 2026
Coaxial cable	SKET	RE-03-D	/	Jun. 27, 2025	Jun. 26, 2026
Coaxial cable	SKET	RE-03-M	/	Jun. 27, 2025	Jun. 26, 2026
Coaxial cable	SKET	RE-03-L	/	Jun. 27, 2025	Jun. 26, 2026
Coaxial cable	SKET	RE-04-D	/	Jun. 27, 2025	Jun. 26, 2026
Coaxial cable	SKET	RE-04-M	/	Jun. 27, 2025	Jun. 26, 2026
Coaxial cable	SKET	RE-04-L	/	Jun. 27, 2025	Jun. 26, 2026
Antenna Mast	Keleto	RE-AM	/	/	/
EMI Test Software	EZ_EMCC	FA-03A2 RE+	1.1.4.2	/	/

6.3.3. Test Data

Please refer to following diagram for individual

9KHz-30MHz

9KHz-150KHz:



Site: 3m Anechoic Chamber

Polarization: **Coaxial**

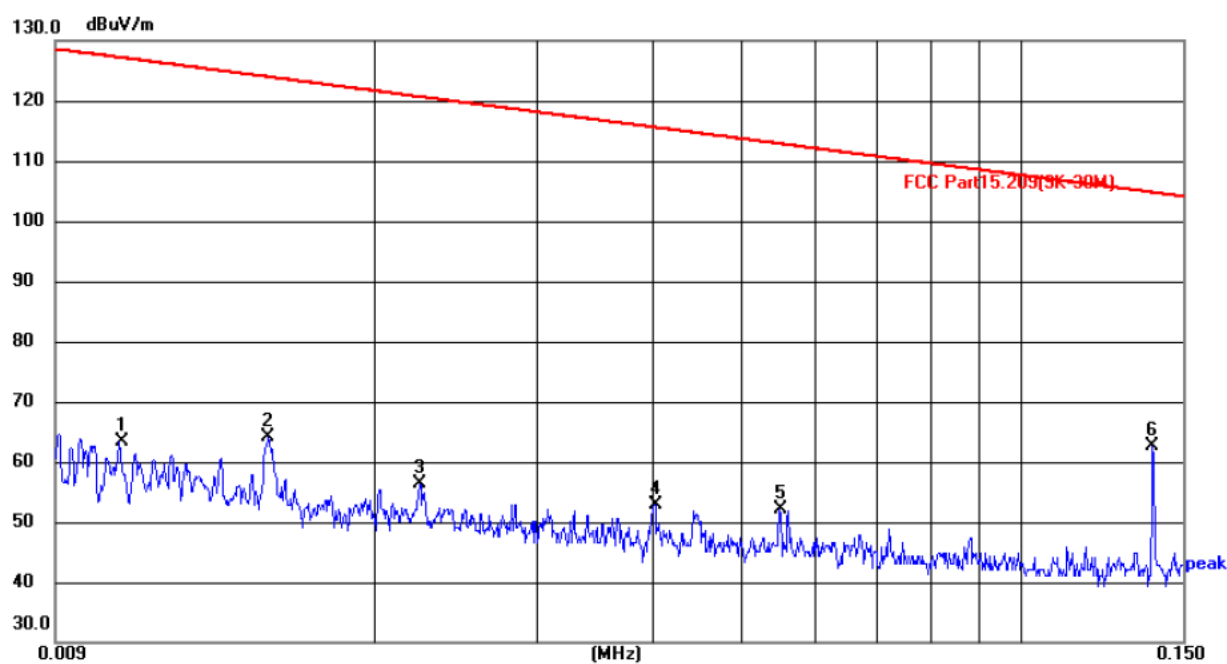
Temperature: 23.5(°C)

Humidity: 42 %

Limit: FCC Part15.209(9K-30M)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.0101	43.50	20.34	63.84	127.52	-63.68	peak	P	
2	0.0154	43.29	20.38	63.67	123.85	-60.18	peak	P	
3	0.0223	36.04	20.41	56.45	120.64	-64.19	peak	P	
4	0.0400	33.17	20.39	53.56	115.56	-62.00	peak	P	
5	0.0562	30.98	20.33	51.31	112.61	-61.30	peak	P	
6 *	0.1386	55.02	20.49	75.51	104.77	-29.26	peak	P	



Site: 3m Anechoic Chamber

Polarization: **Coplanar**

Temperature: 23.5(°C)

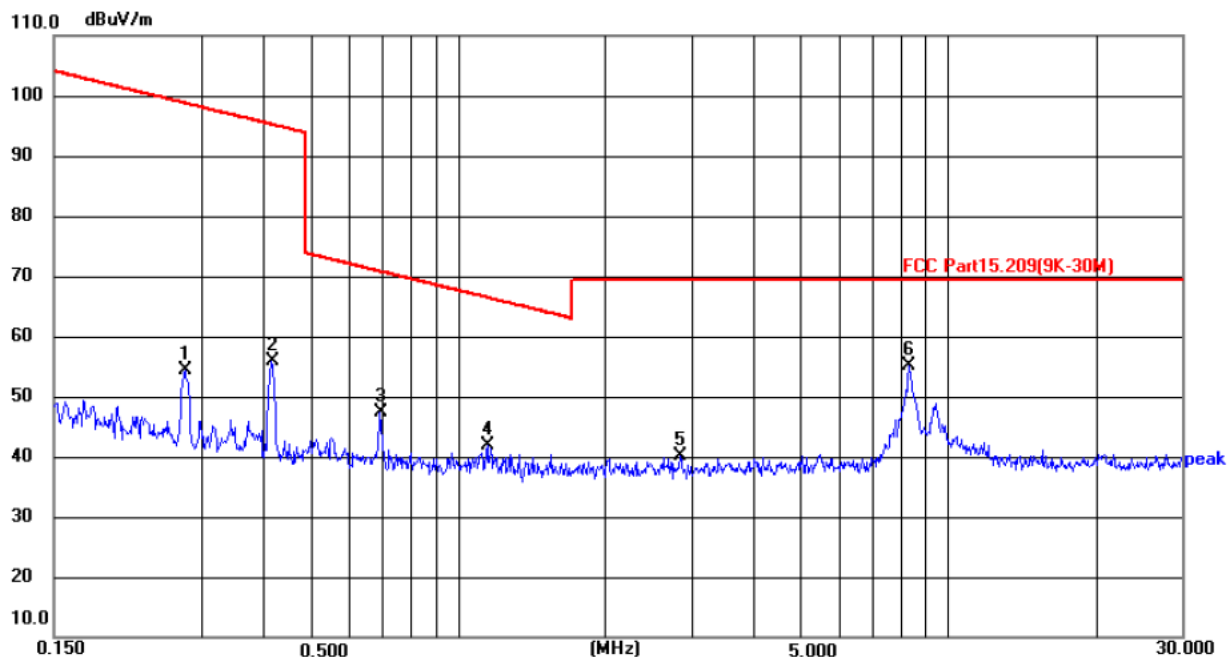
Humidity: 42 %

Limit: FCC Part15.209(9K-30M)

Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.0106	43.10	20.34	63.44	127.10	-63.66	peak	P	
2	0.0153	43.68	20.38	64.06	123.91	-59.85	peak	P	
3	0.0223	36.04	20.41	56.45	120.64	-64.19	peak	P	
4	0.0401	32.51	20.39	52.90	115.54	-62.64	peak	P	
5	0.0548	31.79	20.31	52.10	112.83	-60.73	peak	P	
6 *	0.1389	42.25	20.49	62.74	104.75	-42.01	peak	P	

150KHz-30MHz:



Site: 3m Anechoic Chamber

Polarization: **Coaxial**

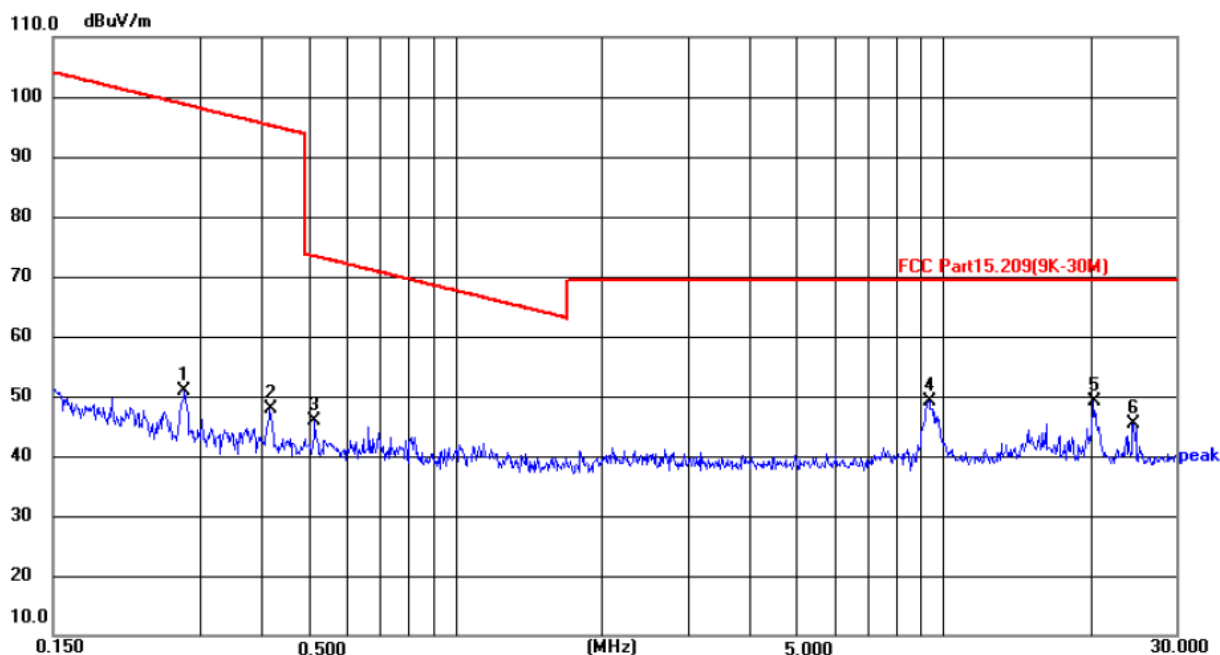
Temperature: 23.5(°C)

Humidity: 42 %

Limit: FCC Part15.209(9K-30M)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.2773	33.53	20.85	54.38	98.75	-44.37	peak	P	
2	0.4171	34.85	21.10	55.95	95.20	-39.25	peak	P	
3	0.6936	25.68	21.59	47.27	70.79	-23.52	peak	P	
4	1.1473	19.48	22.45	41.93	66.43	-24.50	peak	P	
5	2.8389	14.35	25.69	40.04	69.50	-29.46	peak	P	
6 *	8.3228	17.94	37.11	55.05	69.50	-14.45	peak	P	



Site: 3m Anechoic Chamber

Polarization: **Coplanar**

Temperature: 23.5(°C)

Humidity: 42 %

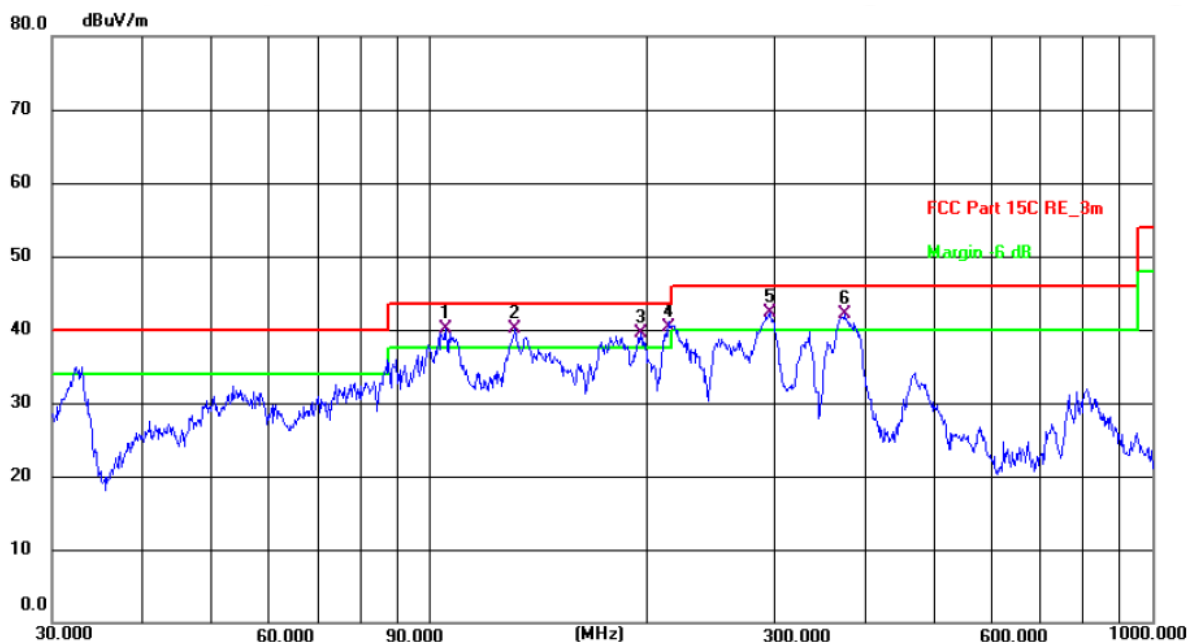
Limit: FCC Part15.209(9K-30M)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.2788	29.94	20.85	50.79	98.70	-47.91	peak	P	
2	0.4171	26.66	21.10	47.76	95.20	-47.44	peak	P	
3	0.5155	24.72	21.28	46.00	73.36	-27.36	peak	P	
4	9.3024	10.01	39.16	49.17	69.50	-20.33	peak	P	
5 *	20.2696	28.89	20.30	49.19	69.50	-20.31	peak	P	
6	24.5291	25.27	20.20	45.47	69.50	-24.03	peak	P	

30MHz-1GHz

Horizontal:



Site: 3m Anechoic Chamber1

Polarization: **Horizontal**

Temperature: 25.7(C)

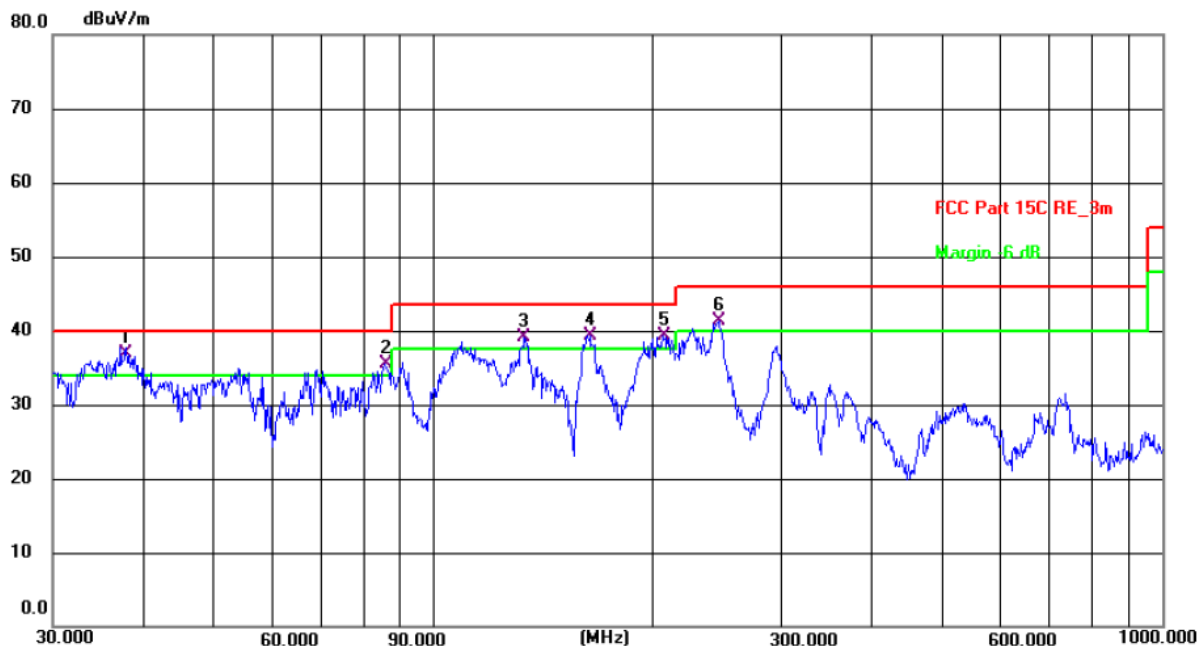
Humidity: 51 %

Limit: FCC Part 15C RE_3m

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 !	105.4102	54.82	-14.80	40.02	43.50	-3.48	QP	P	
2 !	131.3540	52.39	-12.38	40.01	43.50	-3.49	QP	P	
3 !	196.1655	53.82	-14.41	39.41	43.50	-4.09	QP	P	
4 *	213.8571	55.34	-14.98	40.36	43.50	-3.14	QP	P	
5 !	296.0537	53.21	-10.87	42.34	46.00	-3.66	QP	P	
6 !	375.4445	51.65	-9.53	42.12	46.00	-3.88	QP	P	

Vertical:



Site: 3m Anechoic Chamber1

Polarization: **Vertical**

Temperature: 25.7(C) Humidity: 51 %

Limit: FCC Part 15C RE_3m

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	37.8453	49.18	-12.29	36.89	40.00	-3.11	QP	P	
2 !	85.7478	51.98	-16.54	35.44	40.00	-4.56	QP	P	
3 !	133.3847	51.31	-12.23	39.08	43.50	-4.42	QP	P	
4 !	163.8267	50.64	-11.29	39.35	43.50	-4.15	QP	P	
5 !	206.6691	54.29	-14.96	39.33	43.50	-4.17	QP	P	
6 !	246.7067	54.72	-13.46	41.26	46.00	-4.74	QP	P	

Note:

Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

6.4. 20dB Bandwidth

6.4.1. Test Specification

Test Requirement:	§15.215(c)
Test Method:	ANSI C63.10: 2020
Limit:	N/A
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The transmitter shall be operated at its maximum carrier power measured under normal test conditions. 2. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. 3. The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW. Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report.
Test Result:	PASS

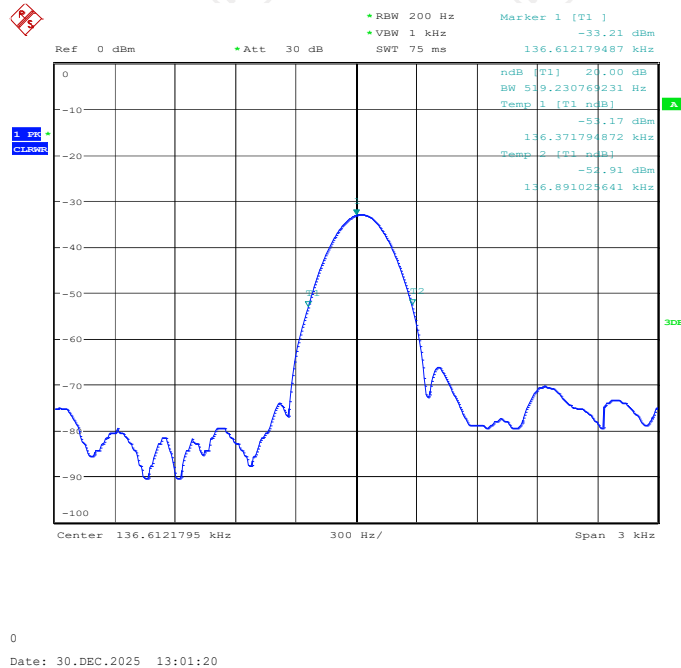
6.4.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	R&S	FSU	200054	Jun. 26, 2025	Jun. 25, 2026

6.4.3. Test data

Frequency (kHz)	20dB Bandwidth (kHz)	Conclusion
136.61	0.52	PASS

Test plots as follows:



Note: The measured signal is Cw-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300Hz and VBW is set to 1kHz to perform the occupied bandwidth test.

Appendix A: Photographs of Test Setup

Please refer to document Appendix No.: TCT251223E016-A

Appendix B: Photographs of EUT

Please refer to document Appendix No.: TCT251223E016-B & TCT251223E016-C

*******END OF REPORT*******