

TEST REPORT

Applicant: Warmboard Inc

Address of Applicant: 100 Enterprise Way, Suite G300 Scotts Valley, CA 95066
United States

Manufacturer: Warmboard Inc

Address of Manufacturer: 100 Enterprise Way, Suite G300 Scotts Valley, CA 95066
United States

Factory Computime Electronics (Shenzhen) Co Ltd.

Address of Factory: Yuekenguangyu Industrial Park Kangqiao Road 88#, Danzutou
Community Nanwan Street Office, Longgang District 518114
Shenzhen PEOPLE'S REPUBLIC OF CHINA

Equipment Under Test (EUT)

Product Name: Smart Reset Controller

Model No.: SRC-02

Trade Mark: Warmboard Comfort System

FCC ID: 2ASM7-SRC02

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: November 01, 2024

Date of Test: November 01, 2024-March 03, 2025

Date of report issued: March 04, 2025

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

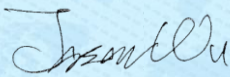
Robinson Luo
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

Version No.	Date	Description
00	March 04, 2025	Original

Prepared By:

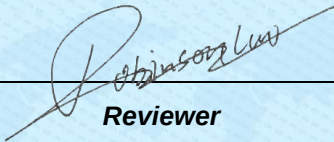


Date:

March 04, 2025

Project Engineer

Check By:



Reviewer

Date:

March 04, 2025

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Test according to ANSI C63.10:2013

Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.75\text{dB}$
5	RF power density	$\pm 3\text{dB}$
6	Conducted Spurious emissions	$\pm 2.58\text{dB}$
7	AC Power Line Conducted Emission	$\pm 3.44\text{dB}$ (0.15MHz ~ 30MHz)
8	Radiated Spurious emission test	$\pm 3.1\text{dB}$ (9kHz-30MHz)
		$\pm 3.8039\text{dB}$ (30MHz-200MHz)
		$\pm 3.9679\text{dB}$ (200MHz-1GHz)
		$\pm 4.29\text{dB}$ (1GHz-18GHz)
		$\pm 3.30\text{dB}$ (18GHz-40GHz)
9	Temperature test	$\pm 1^\circ\text{C}$
10	Humidity test	$\pm 3\%$
11	Time	$\pm 3\%$

5 General Information

5.1 General Description of EUT

Product Name:	Smart Reset Controller
Model No.:	SRC-02
Test sample(s) ID:	GTS2024100335-1
Sample(s) Status	Engineer sample
S/ N:	SAUSRC2IA000001
Operation Frequency:	903MHz~922.5MHz
Channel numbers:	40
Channel separation:	500kHz
Modulation type:	LORA
Antenna Type:	External Antenna
Antenna gain:	2.2dBi
Power supply:	AC 120V/60Hz

Remark:

1. Antenna gain information provided by the customer
2. The relevant information of the sample is provided by the entrusting company, and the laboratory is not responsible for its authenticity.

The test frequencies are below:

Channel	Frequency(MHz)
The lowest channel	903.0
The middle channel	912.5
The Highest channel	922.5

Operation Frequency each of channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	903.0	10	908.0	20	913.0	30	918.0
1	903.5	11	908.5	21	913.5	31	918.5
2	904.0	12	909.0	22	914.0	32	919.0
3	904.5	13	909.5	23	914.5	33	919.5
4	905.0	14	910.0	24	915.0	34	920.0
5	905.5	15	910.5	25	915.5	35	920.5
6	906.0	16	911.0	26	916.0	36	921.0
7	906.5	17	911.5	27	916.5	37	921.5
8	907.0	18	912.0	28	917.0	38	922.0
9	907.5	19	912.5	29	917.5	39	922.5

5.2 Test mode

Transmitting mode	Keep the EUT in transmitting mode.
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5.3 Test Facility

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

- **FCC —Registration No.: 381383**

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

- **ISED —Registration No.: 9079A**

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing.

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.4 Test Location

All other tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number
GTS	Bulb	N/A	N/A

5.6 Deviation from Standards

None.

5.7 Abnormalities from Standard Conditions

None.

5.8 Additional Instructions

Test Software	Special test command provided by manufacturer
Power level setup	Default

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Jun. 22, 2024	Jun. 21, 2027
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Apr. 11, 2024	Apr. 10, 2025
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	Mar. 19, 2023	Mar. 18, 2025
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	Apr. 17, 2023	Apr. 16, 2025
6	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	Apr. 11, 2024	Apr. 10, 2025
7	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov.12, 2024	Nov.11, 2025
8	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	Apr. 11, 2024	Apr. 10, 2025
9	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	Apr. 11, 2024	Apr. 10, 2025
10	Horn Antenna (15GH-40GHz)	SCHWARZBECK	01296	GTS691	Mar. 07, 2024	Mar. 06, 2025
11	FSV·Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	Mar. 12, 2024	Mar. 11, 2025
12	Amplifier	/	LNA-1000-30S	GTS650	Apr. 11, 2024	Apr. 10, 2025
13	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 07, 2024	Nov. 06, 2025
14	Wideband Amplifier	/	WDA-01004000-15P35	GTS602	Apr. 11, 2024	Apr. 10, 2025
15	Thermo meter	JINCHUANG	GSP-8A	GTS643	Apr. 18, 2024	Apr. 17, 2025
16	RE cable 1	GTS	N/A	GTS675	Jul. 02, 2024	Jul. 01, 2025
17	RE cable 2	GTS	N/A	GTS676	Jul. 02, 2024	Jul. 01, 2025
18	RE cable 3	GTS	N/A	GTS677	Jul. 02, 2024	Jul. 01, 2025
19	RE cable 4	GTS	N/A	GTS678	Jul. 02, 2024	Jul. 01, 2025
20	RE cable 5	GTS	N/A	GTS679	Jul. 02, 2024	Jul. 01, 2025
21	RE cable 6	GTS	N/A	GTS680	Jul. 02, 2024	Jul. 01, 2025
22	RE cable 7	GTS	N/A	GTS681	Jul. 05, 2024	Jul. 04, 2025
23	RE cable 8	GTS	N/A	GTS682	Jul. 05, 2024	Jul. 04, 2025
24	EMI Test Software	AUDIX	E3-6.100614a	GTS725	N/A	N/A

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	Jul. 12, 2022	Jul. 11, 2027
2	EMI Test Receiver	R&S	ESCI 7	GTS552	Apr. 11, 2024	Apr. 10, 2025
3	LISN	ROHDE & SCHWARZ	ENV216	GTS226	Apr. 11, 2024	Apr. 10, 2025
4	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
5	Thermo meter	JINCHUANG	GSP-8A	GTS642	Apr. 18, 2024	Apr. 17, 2025
6	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	Apr. 11, 2024	Apr. 10, 2025
7	ISN	SCHWARZBECK	NTFM 8158	GTS565	Apr. 11, 2024	Apr. 10, 2025
8	High voltage probe	SCHWARZBECK	TK9420	GTS537	Apr. 11, 2024	Apr. 10, 2025
9	Antenna end assembly	Weinschel	1870A	GTS560	Apr. 11, 2024	Apr. 10, 2025
10	EMI Test Software	AUDIX	E3-6.100622	GTS726	N/A	N/A

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	Apr. 13, 2024	Apr. 12, 2025
2	EMI Test Receiver	R&S	ESCI 7	GTS552	Apr. 13, 2024	Apr. 12, 2025
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	Apr. 13, 2024	Apr. 12, 2025
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	Apr. 13, 2024	Apr. 12, 2025
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	Apr. 13, 2024	Apr. 12, 2025
6	Wideband Power Sensor	Keysight	N1924A	GTS673	Apr. 13, 2024	Apr. 12, 2025
7	USB RF Power Sensor	DARE	RPR3006W	GTS569	Apr. 13, 2024	Apr. 12, 2025
8	RF Switch Box	Shongyi	RFSW3003328	GTS571	Apr. 13, 2024	Apr. 12, 2025
9	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	Apr. 13, 2024	Apr. 12, 2025
10	Thermo meter	JINCHUANG	GSP-8A	GTS641	Apr. 18, 2024	Apr. 17, 2025
11	EXA Signal Analyzer	Keysight	N9010B	MY60241168	Nov. 02, 2024	Nov. 01, 2025

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	KUMAO	SF132	GTS647	Apr. 18, 2024	Apr. 17, 2025

7 Test results and Measurement Data

7.1 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.	
EUT Antenna:	
The antenna is external antenna, reference to the appendix II for details.	

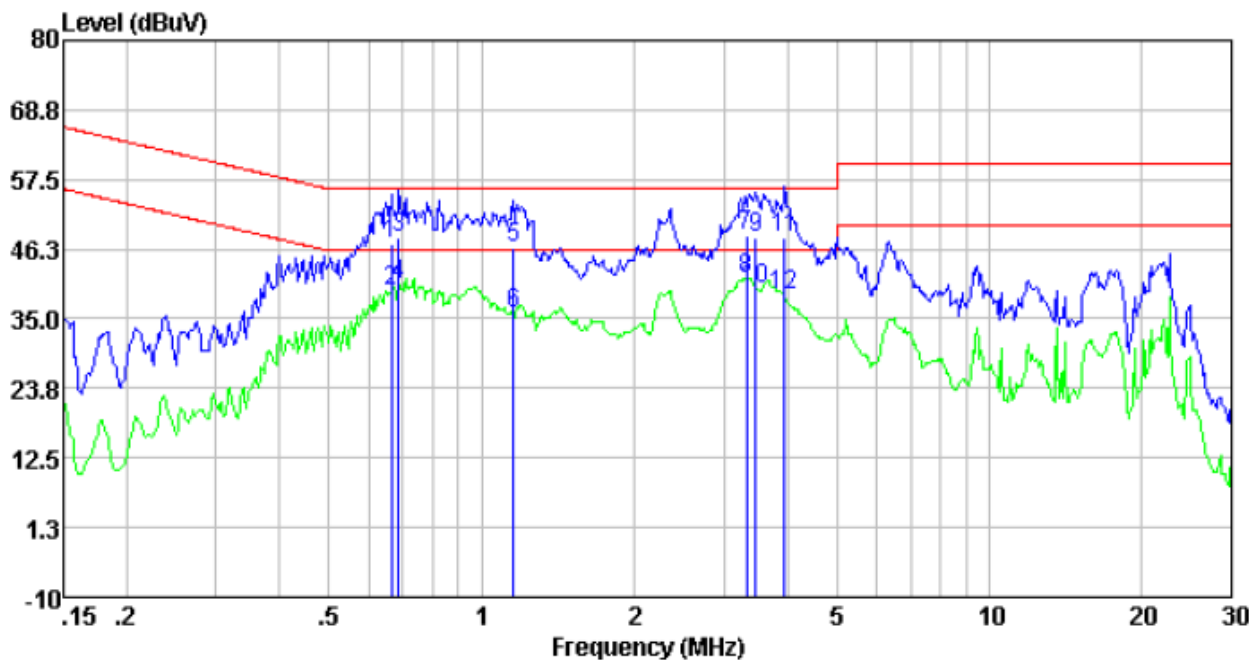
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207																			
Test Method:	ANSI C63.10:2013																			
Test Frequency Range:	150KHz to 30MHz																			
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto																			
Limit:	<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> * Decreases with the logarithm of the frequency.						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 Test table/Insulation plane <i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m																			
Test procedure:	1. The E.U.T and simulators are connected to the main power 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 C63.10:2013 on conducted measurement.																			
Test Instruments:	Refer to section 6.0 for details																			
Test mode:	Refer to section 5.2 for details																			
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar														
Test voltage:	AC 120V, 60Hz																			
Test results:	Pass																			

Measurement data

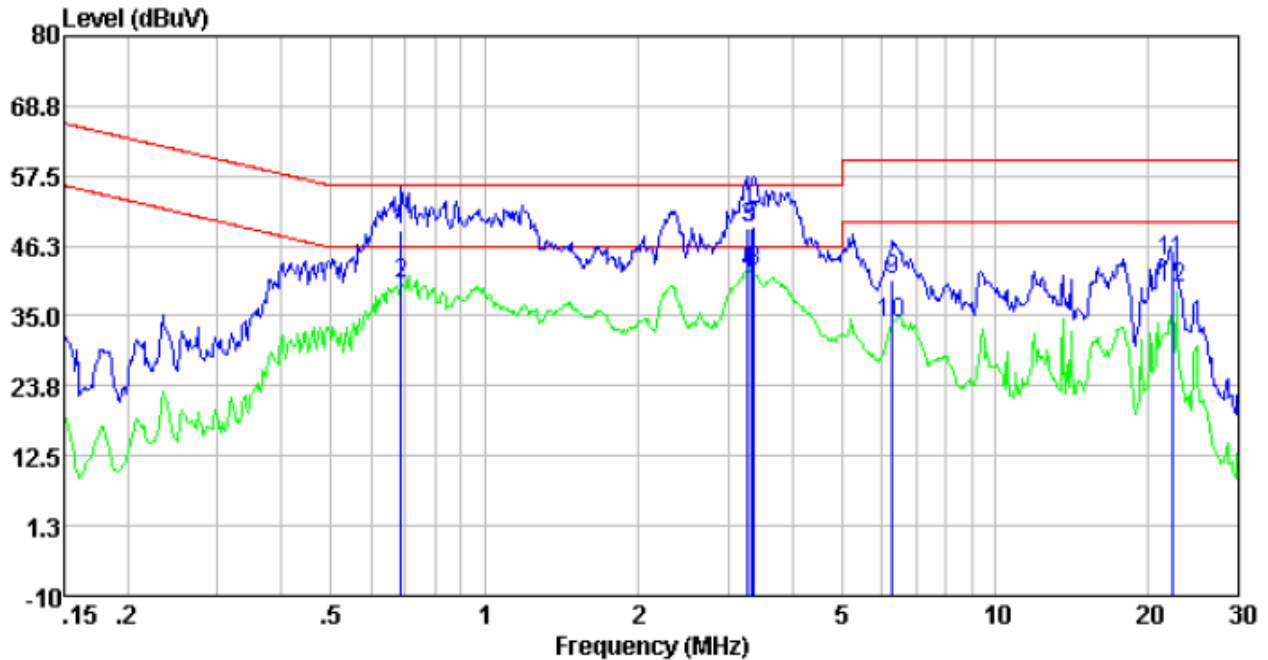
Pre-scan all test modes, found worst case at 903MHz, and so only show the test result of it.

Line:



Freq	Reading	LISN/ISN	Cable	Level	Limit	Over	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.66	37.34	9.70	0.02	47.06	56.00	-8.94	QP
0.66	29.78	9.70	0.02	39.50	46.00	-6.50	Average
0.69	38.21	9.73	0.02	47.96	56.00	-8.04	QP
0.69	30.81	9.73	0.02	40.56	46.00	-5.44	Average
1.15	36.41	9.88	0.03	46.32	56.00	-9.68	QP
1.15	25.93	9.88	0.03	35.84	46.00	-10.16	Average
3.33	39.00	9.45	0.05	48.50	56.00	-7.50	QP
3.33	31.99	9.45	0.05	41.49	46.00	-4.51	Average
3.47	38.52	9.43	0.06	48.01	56.00	-7.99	QP
3.47	30.31	9.43	0.06	39.80	46.00	-6.20	Average
3.94	38.65	9.39	0.06	48.10	56.00	-7.90	QP
3.94	29.21	9.39	0.06	38.66	46.00	-7.34	Average

Neutral:



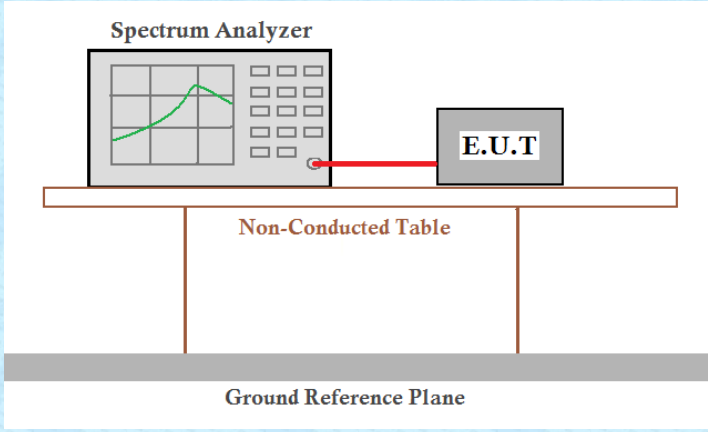
Freq	Reading	LISN/ISN	Cable		Limit	Over	
	level	factor	loss	Level	level	limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.69	39.03	9.85	0.02	48.90	56.00	-7.10	QP
0.69	30.34	9.85	0.02	40.21	46.00	-5.79	Average
3.28	39.31	9.79	0.05	49.15	56.00	-6.85	QP
3.28	31.98	9.79	0.05	41.82	46.00	-4.18	Average
3.33	39.41	9.78	0.05	49.24	56.00	-6.76	QP
3.33	32.26	9.78	0.05	42.09	46.00	-3.91	Average
3.36	39.73	9.78	0.05	49.56	56.00	-6.44	QP
3.36	32.33	9.78	0.05	42.16	46.00	-3.84	Average
6.29	31.06	9.70	0.08	40.84	60.00	-19.16	QP
6.29	24.16	9.70	0.08	33.94	50.00	-16.06	Average
22.21	33.58	9.87	0.19	43.64	60.00	-16.36	QP
22.21	29.32	9.87	0.19	39.38	50.00	-10.62	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss

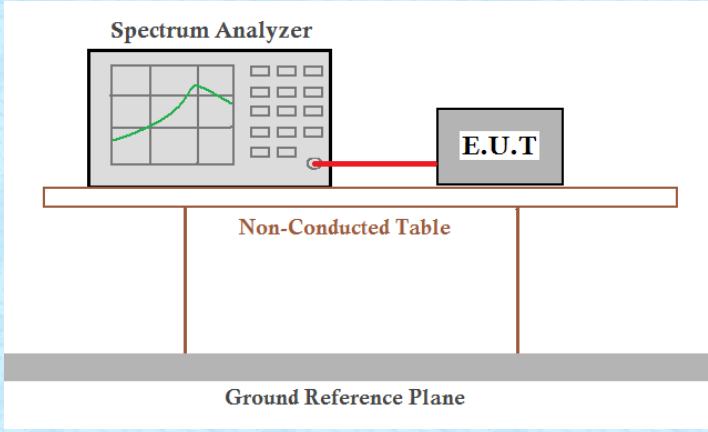
If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

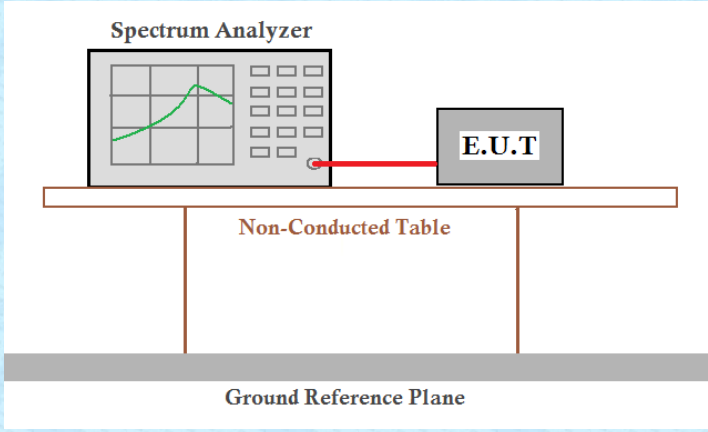
Measurement Data: The detailed test data see Appendix.

7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	>500KHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix.

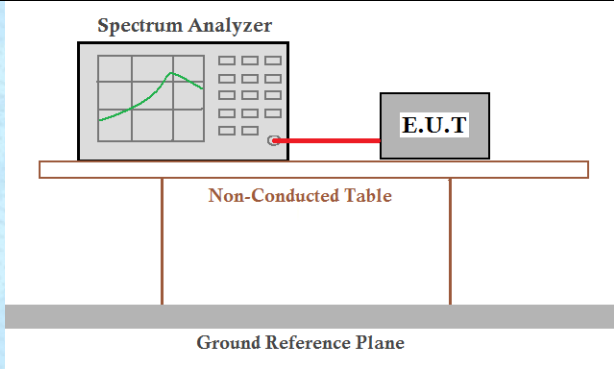
7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	8dBm/3kHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix.

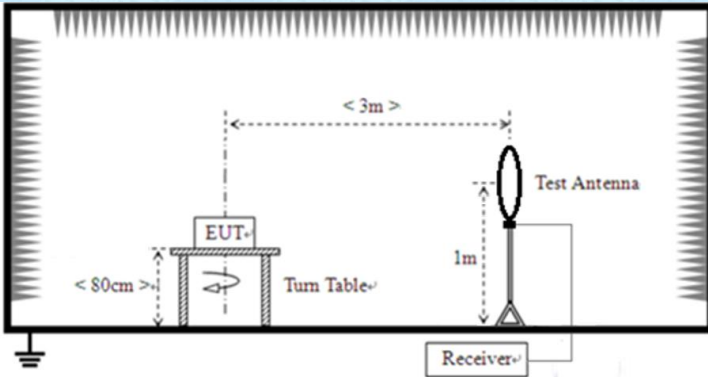
7.6 Spurious Emission

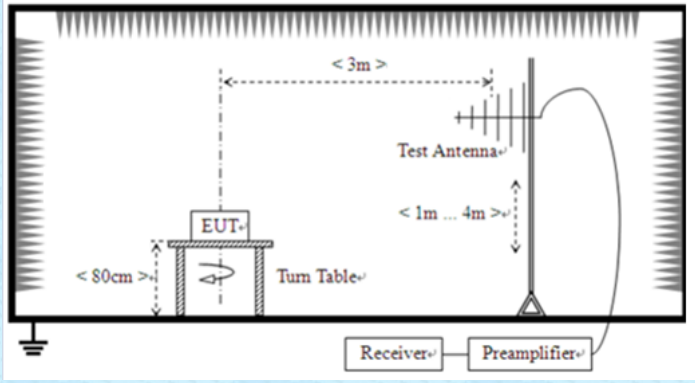
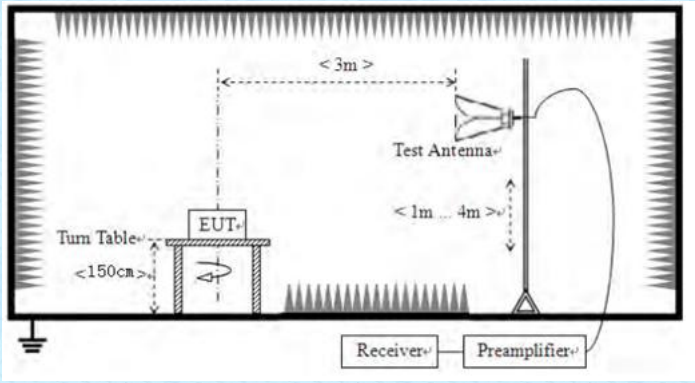
7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.
Test Instruments:	Refer to section6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix.

7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit: (Spurious Emissions)	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP/PK/AV	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	300m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Test setup:	Below 30MHz				
					
	Below 1GHz				

	 Above 1GHz 						
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8 meters for below 1GHz and 1.5meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.						
Test Instruments:	Refer to section 5.8 for details						
Test mode:	Refer to section 5.2 for details						
Temp. / Hum.	<table><tr><td>Temp.:</td><td>25 °C</td><td>Humid.:</td><td>52%</td><td>Press.:</td><td>1 012mbar</td></tr></table>	Temp.:	25 °C	Humid.:	52%	Press.:	1 012mbar
Temp.:	25 °C	Humid.:	52%	Press.:	1 012mbar		

Test results:	Pass
Test voltage:	AC 120V, 60Hz

Remark:

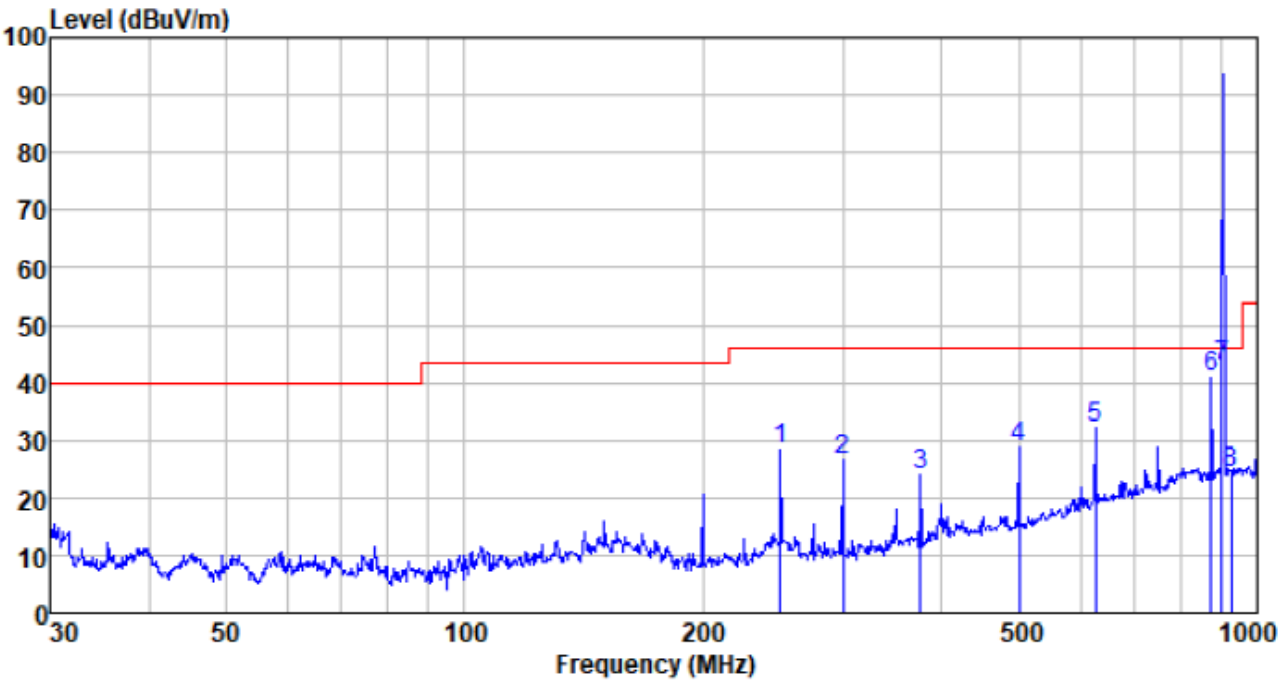
1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Measurement data:**■ Below 30MHz**

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

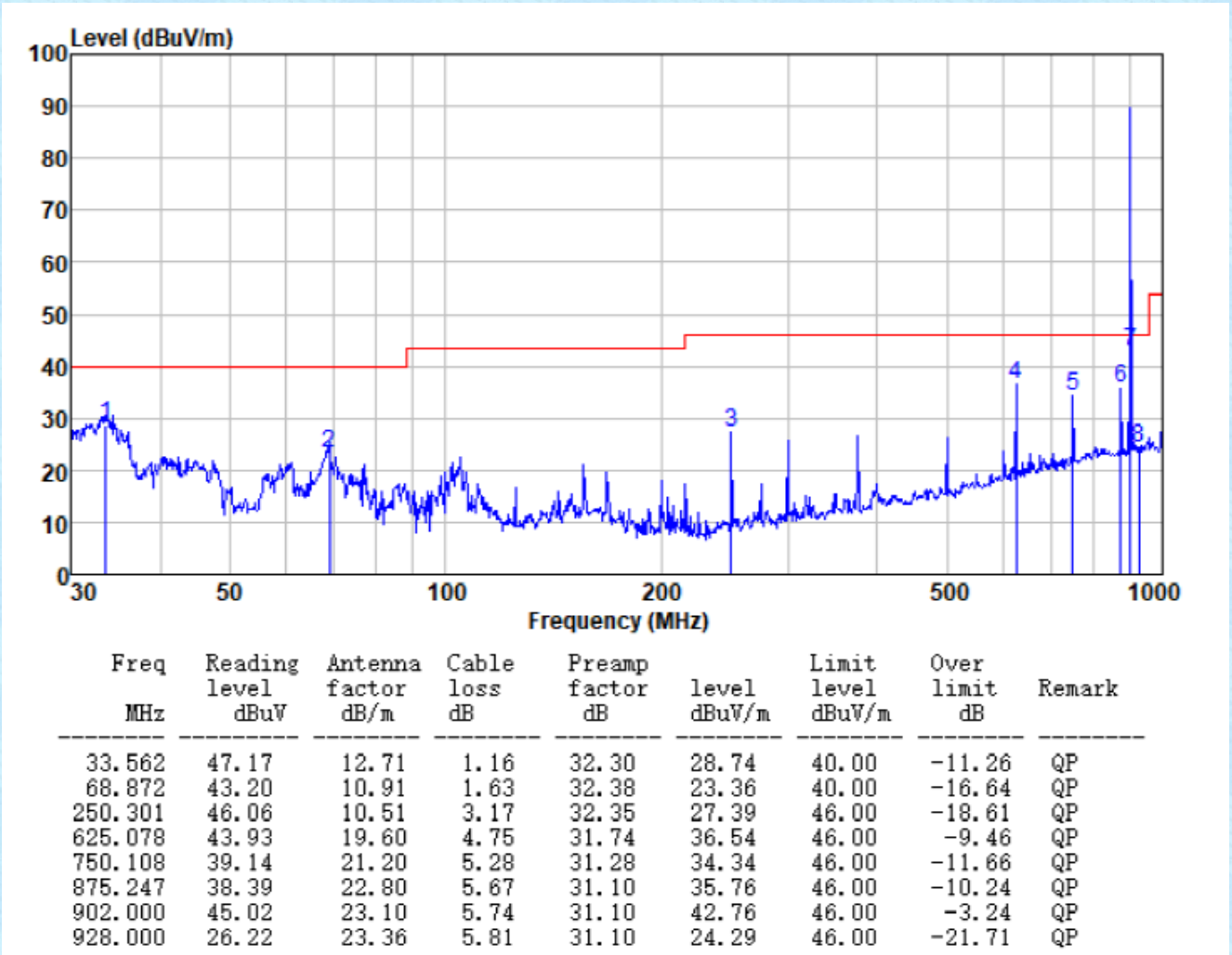
■ 30MHz ~ 1GHz

Test channel:	Lowest	Polarization:	Horizontal
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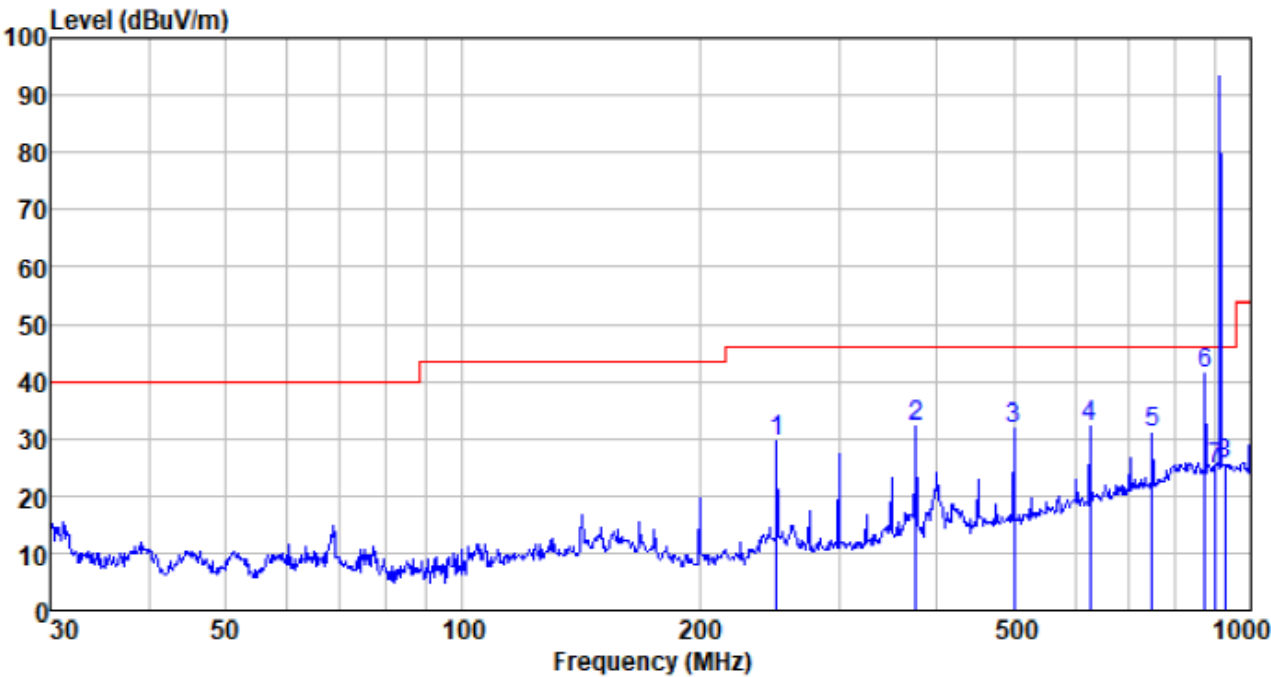


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
250.301	47.02	10.51	3.17	32.35	28.35	46.00	-17.65	QP
300.367	42.92	12.41	3.42	32.30	26.45	46.00	-19.55	QP
375.939	38.37	14.22	3.78	32.26	24.11	46.00	-21.89	QP
501.179	40.00	16.82	4.20	32.20	28.82	46.00	-17.18	QP
625.078	39.47	19.60	4.75	31.74	32.08	46.00	-13.92	QP
875.247	43.62	22.80	5.67	31.10	40.99	46.00	-5.01	QP
902.000	45.12	23.10	5.74	31.10	42.86	46.00	-3.14	QP
928.000	26.11	23.36	5.81	31.10	24.18	46.00	-21.82	QP

Test channel:	Lowest	Polarization:	Vertical
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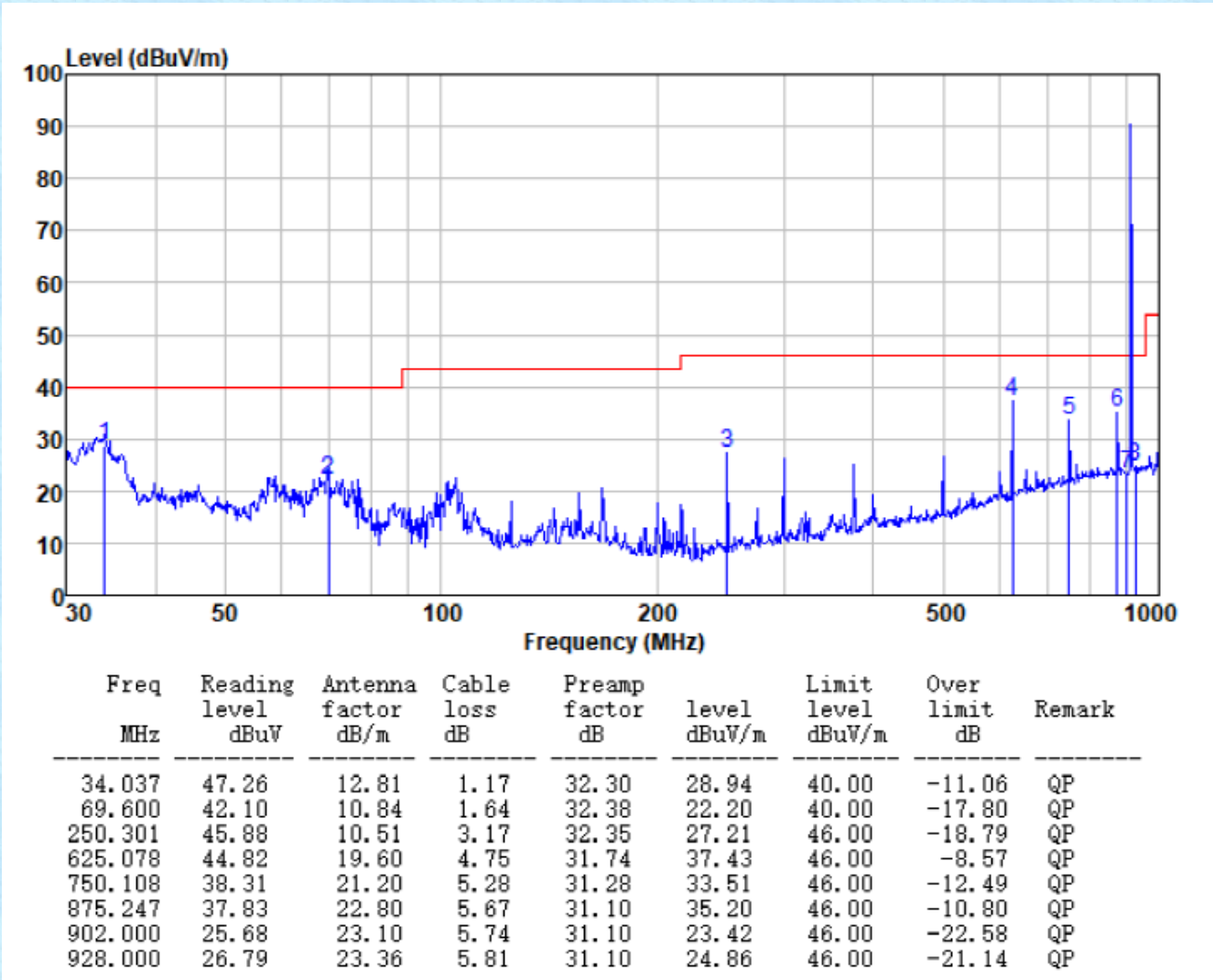


Test channel:	Middle	Polarization:	Horizontal
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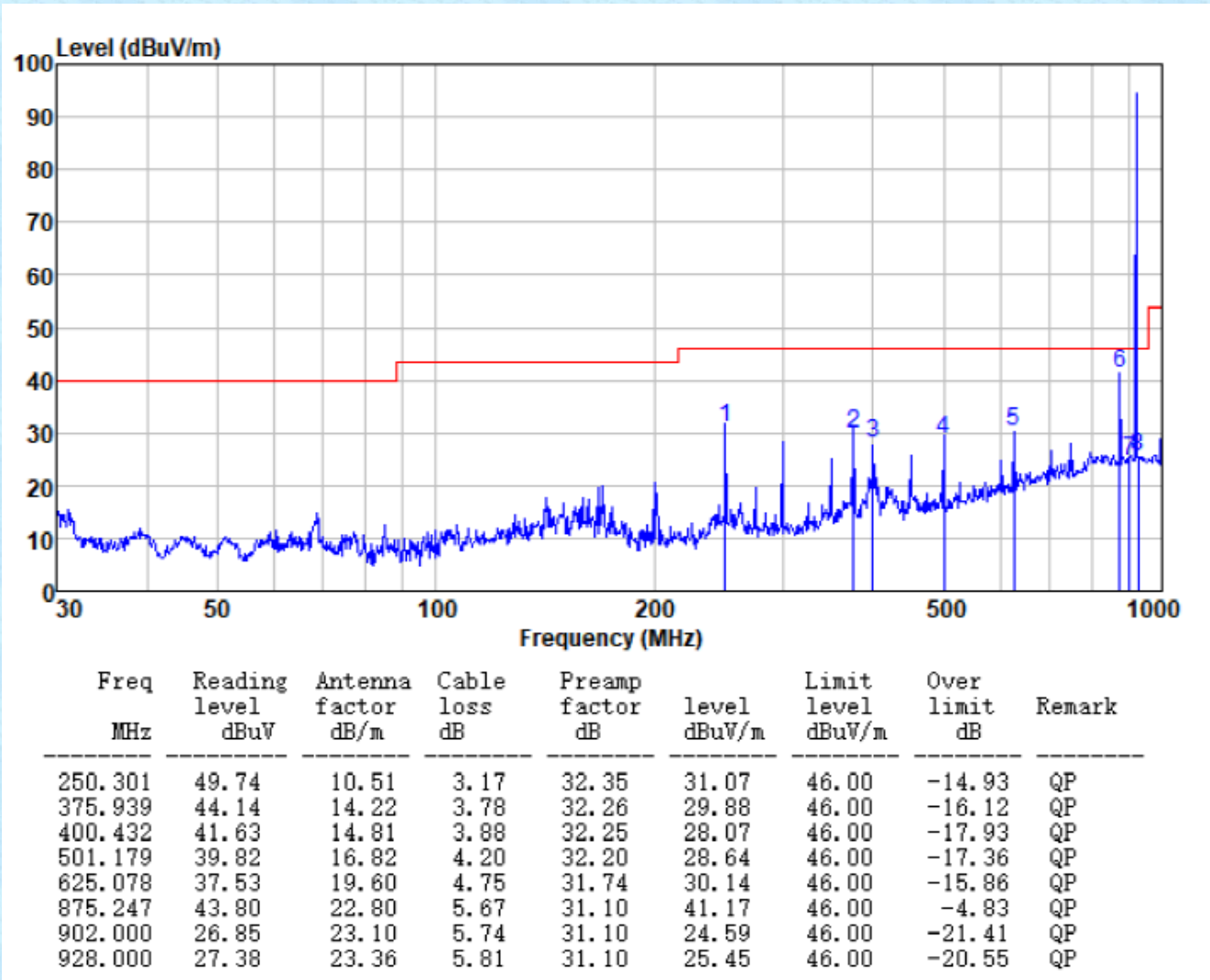


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
250.301	48.36	10.51	3.17	32.35	29.69	46.00	-16.31	QP
375.939	46.18	14.22	3.78	32.26	31.92	46.00	-14.08	QP
501.179	42.85	16.82	4.20	32.20	31.67	46.00	-14.33	QP
625.078	39.53	19.60	4.75	31.74	32.14	46.00	-13.86	QP
750.108	35.80	21.20	5.28	31.28	31.00	46.00	-15.00	QP
875.247	43.80	22.80	5.67	31.10	41.17	46.00	-4.83	QP
902.000	26.85	23.10	5.74	31.10	24.59	46.00	-21.41	QP
928.000	27.38	23.36	5.81	31.10	25.45	46.00	-20.55	QP

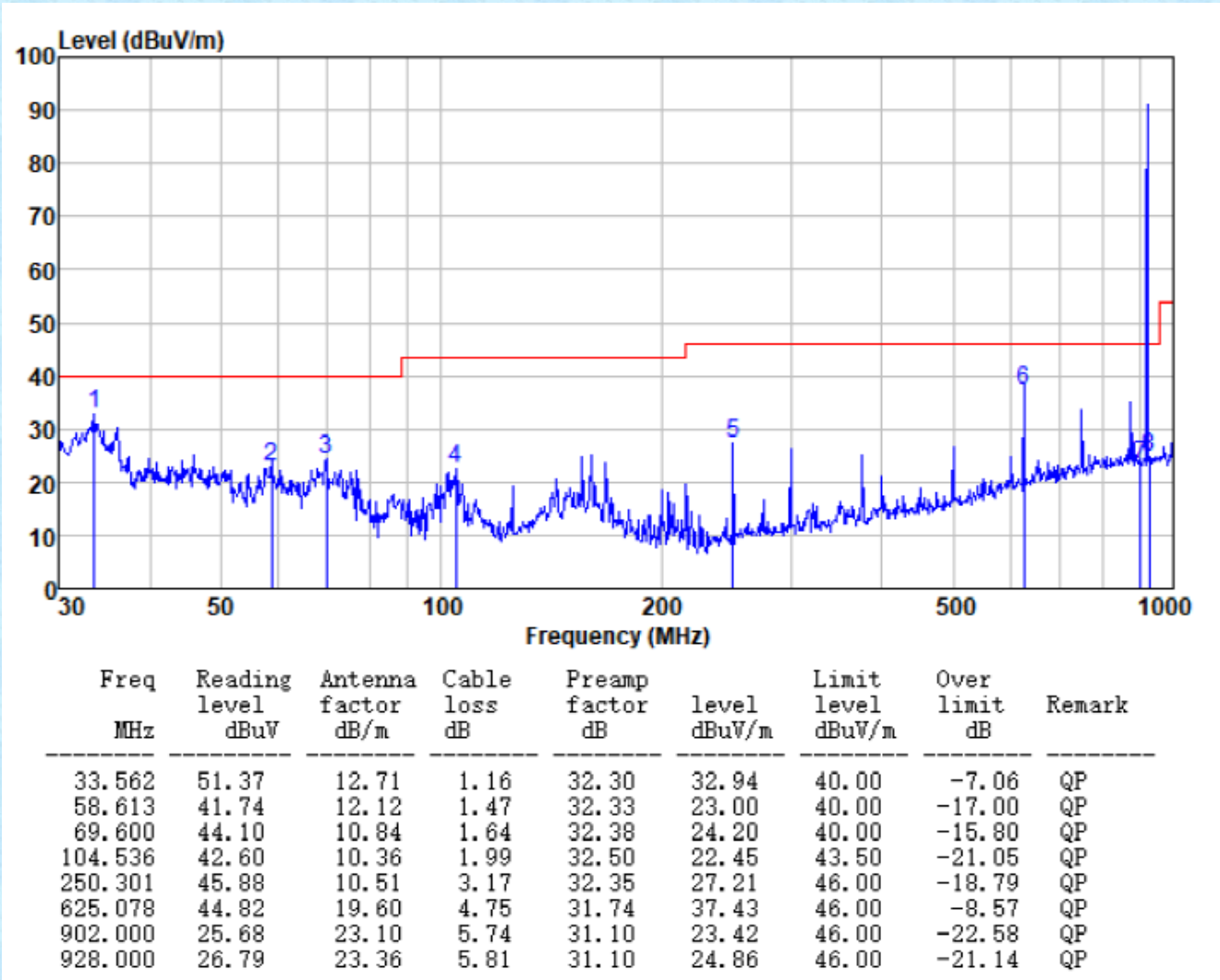
Test channel:	Middle	Polarization:	Vertical
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Test channel:	Highest	Polarization:	Horizontal
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Test channel:	Highest	Polarization:	Vertical
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- Above 1GHz
- Unwanted Emissions in Non-restricted Frequency Bands

Test channel:	Lowest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1806.00	55.77	25.82	4.65	38.87	47.37	74.00	-26.63	Vertical
2709.00	49.56	28.01	4.15	39.35	42.37	74.00	-31.63	Vertical
3612.00	41.05	28.73	4.98	38.61	36.15	74.00	-37.85	Vertical
1806.00	53.44	25.82	4.65	38.87	45.04	74.00	-28.96	Horizontal
2709.00	52.73	28.01	4.15	39.35	45.54	74.00	-28.46	Horizontal
3612.00	40.15	28.73	4.98	38.61	35.25	74.00	-38.75	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1806.00	53.84	25.82	4.65	38.87	45.44	54.00	-8.56	Vertical
2709.00	48.53	28.01	4.15	39.35	41.34	54.00	-12.66	Vertical
3610.00	39.34	28.73	4.98	38.61	34.44	54.00	-19.56	Vertical
1806.00	53.46	25.82	4.65	38.87	45.06	54.00	-8.94	Horizontal
2709.00	50.61	28.01	4.15	39.35	43.42	54.00	-10.58	Horizontal
3612.00	38.20	28.73	4.98	38.61	33.30	54.00	-20.70	Horizontal

Test channel:	Middle channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1825.00	55.26	25.84	4.61	38.82	46.89	74.00	-27.11	Vertical
2737.50	48.03	28.04	4.20	39.31	40.96	74.00	-33.04	Vertical
3650.00	39.28	28.85	5.00	38.58	34.55	74.00	-39.45	Vertical
1825.00	57.12	25.84	4.61	38.82	48.75	74.00	-25.25	Horizontal
2737.50	49.20	28.04	4.20	39.31	42.13	74.00	-31.87	Horizontal
3650.00	44.69	28.85	5.00	38.58	39.96	74.00	-34.04	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1825.00	55.53	25.84	4.61	38.82	47.16	54.00	-6.84	Vertical
2737.50	45.88	28.04	4.20	39.31	38.81	54.00	-15.19	Vertical
3650.00	37.24	28.85	5.00	38.58	32.51	54.00	-21.49	Vertical
1825.00	55.68	25.84	4.61	38.82	47.31	54.00	-6.69	Horizontal
2737.50	47.01	28.04	4.20	39.31	39.94	54.00	-14.06	Horizontal
3650.00	41.67	28.85	5.00	38.58	36.94	54.00	-17.06	Horizontal

Test channel:	Highest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1845.00	52.85	25.88	4.58	38.77	44.54	74.00	-29.46	Vertical
2767.50	44.72	28.09	4.26	39.28	37.79	74.00	-36.21	Vertical
3690.00	39.29	28.97	5.02	38.55	34.73	74.00	-39.27	Vertical
1845.00	56.27	25.88	4.58	38.77	47.96	74.00	-26.04	Horizontal
2767.50	49.58	28.09	4.26	39.28	42.65	74.00	-31.35	Horizontal
3690.00	41.19	28.97	5.02	38.55	36.63	74.00	-37.37	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1845.00	50.23	25.88	4.58	38.77	41.92	54.00	-12.08	Vertical
2767.50	42.63	28.09	4.26	39.28	35.70	54.00	-18.30	Vertical
3690.00	37.87	28.97	5.02	38.55	33.31	54.00	-20.69	Vertical
1845.00	54.45	25.88	4.58	38.77	46.14	54.00	-7.86	Horizontal
2767.50	47.92	28.09	4.26	39.28	40.99	54.00	-13.01	Horizontal
3690.00	39.28	28.97	5.02	38.55	34.72	54.00	-19.28	Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

■ Unwanted Emissions in Restricted Frequency Bands

Test channel:	Lowest	Polarization:	Horizontal
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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
902.00	45.12	23.10	5.74	31.10	42.86	46.00	-3.14
928.00	26.11	23.36	5.81	31.10	24.18	46.00	-21.82

Test channel:	Lowest	Polarization:	Vertical
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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
902.00	45.02	23.10	5.74	31.10	42.76	46.00	-3.24
928.00	26.22	23.36	5.81	31.10	24.29	46.00	-21.71

Test channel:	Highest	Polarization:	Horizontal
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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
902.00	26.85	23.10	5.74	31.10	24.59	46.00	-21.41
928.00	27.38	23.36	5.81	31.10	25.45	46.00	-20.55

Test channel:	Highest	Polarization:	Vertical
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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
902.00	25.68	23.10	5.74	31.10	23.42	46.00	-22.58
928.00	26.79	23.36	5.81	31.10	24.86	46.00	-21.14

Remarks:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

---End---