

TEST REPORT

Reference No...... : WTX26X06154783W
FCC ID..... : 2BWRK-BK-5208
Applicant..... : Wenzhou Tiangu Electronic Technology Co., Ltd.
Address..... : No. 60 Lishe Road, Zeya Town, Ouhai District, Wenzhou City, Zhejiang
Province, P.R.China
Manufacturer..... : The same as Applicant
Address..... : The same as Applicant
Product Name..... : bicycle computer
Model No...... : BK-5208
Standards..... : **47 CFR FCC Part 15, Subpart B**
Date of Receipt sample..... : 2026-06-01
Date of Test..... : 2026-06-03 to 2026-06-16
Date of Issue..... : 2026-06-17
Test Report Form No...... : WTX_FCC PART15B_001
Test Result..... : **Pass**

Remarks:

The 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 approver.

Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

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Tested by:



Mike Shi/Project Engineer

Approved by:



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Report version

Version No.	Date of issue	Description
Rev.00	2026-06-17	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	bicycle computer
Trade Name:	/
Model No.:	BK-5208
Adding Model(s):	/
<i>Note: The sample information is provided by the customer.</i>	

Technical Characteristics of EUT	
Rated Voltage:	Charging port:DC5V Battery:DC3.7V
Battery capacity:	1200mAh
Rated Power:	/
Power Adapter Model:	/
Lowest Internal Frequency:	/
Highest Internal Frequency:	1575.42MHz
Classification of ITE:	Class B

1.2 Test Standards

The tests were performed according to following standards:

47 CFR FCC Part 15, Subpart B:Unintentional Radiators.

ANSI C63.4-2014:American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

ANSI C63.4a-2017:American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

Amendment 1:Test Site Validation

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. 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 our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Operation Mode

The equipment under test (EUT) was configured to measure its highest possible emission. The test modes were adapted according to the operation manual for use, more detailed description as follows:

Test Mode List			
Test Mode	Description	Remark	Power Supply Mode
TM1	Normal working	Connect to adapter, AC120V 60Hz; and normal working(include GPS)	Charging port:DC5V Battery:DC3.7V

EUT Cable List and Details				
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite	With / Without Chip
USB Cable	0.8	Unshielded	Without Ferrite	Without Chip

Special Cable List and Details				
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite	With / Without Chip
/	/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Adapter	/	MDY-11-EX	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Conducted Emission 1#	Conducted	@9kHz to 150kHz: $\pm 3.74\text{dB}$
		@150kHz to 30MHz: $\pm 3.34\text{dB}$
Conducted Emission 2#	Conducted	@9kHz to 150kHz: $\pm 3.74\text{dB}$
		@150kHz to 30MHz: $\pm 3.34\text{dB}$
Radiated Emissions chamber A	Radiated	@9kHz to 30MHz: $\pm 3.0\text{dB}$
		@30MHz to 1GHz: $\pm 5.70\text{dB}$
		@1GHz to 6GHz: $\pm 5.88\text{dB}$
		@6GHz to 18GHz: $\pm 5.96\text{dB}$
		@18GHz to 40GHz: $\pm 6.12\text{dB}$
Radiated Emissions chamber B	Radiated	@30MHz to 1GHz: $\pm 5.36\text{dB}$
Radiated Emissions chamber C	Radiated	@9kHz to 30MHz: $\pm 3.0\text{dB}$
		@30MHz to 1GHz: $\pm 5.28\text{dB}$
		@1GHz to 6GHz: $\pm 5.56\text{dB}$
		@6GHz to 18GHz: $\pm 5.72\text{dB}$
		@18GHz to 40GHz: $\pm 6.12\text{dB}$

1.7 Test Equipment List and Details

Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
☐ Chamber A:Below 1GHz					
Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2026-02-05	2027-02-04
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2026-02-05	2027-02-04
Amplifier	HP	8447F	2805A03475	2026-02-05	2027-02-04
Loop Antenna	Schwarz beck	FMZB 1516	9773	2026-02-05	2027-02-04
Trilog Broadband Antenna	Schwarz beck	VULB9163	9163-333	2026-03-11	2029-03-10
Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
☐ Chamber A:Above 1GHz					
Amplifier	C&D	PAP-1.0G18	14918	2026-02-05	2027-02-04
Horn Antenna	ETS	3117	00086197	2026-02-05	2027-02-04
Coaxial Cable	/	C16-07-07	/	2026-02-23	2027-02-22
Coaxial Cable	/	C16-07-07	/	2026-02-23	2027-02-22
Coaxial Cable	/	C16-07-07	/	2026-02-23	2027-02-22
☐ Chamber B:Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2026-02-05	2027-02-04
Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16
Amplifier	Agilent	8447D	2944A10457	2026-02-05	2027-02-04
Coaxial Cable	/	1.5MRFC-L WB3	/	2026-02-23	2027-02-22
Coaxial Cable	/	RG 316	/	2026-02-23	2027-02-22
Coaxial Cable	/	RG 316	/	2026-02-23	2027-02-22
☒ Chamber C:Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2026-02-05	2027-02-04
Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17
Loop Antenna	Schwarz beck	FMZB 1516	9773	2026-02-05	2027-02-04
Amplifier	HP	8447F	2944A03869	2026-02-05	2027-02-04
Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
☒ Chamber C:Above 1GHz					

EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2026-02-05	2027-02-04
Horn Antenna	POAM	RTF-118A	1820	2025-06-13	2027-06-12
Amplifier	Tonscend	TAP010180 50	AP22E80623 5	2026-02-05	2027-02-04
DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2026-02-10	2027-02-09
Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2026-02-05	2027-02-04
Coaxial Cable	/	RC-18G-N- M	/	2026-02-23	2027-02-22
Coaxial Cable	/	RC-18G-N- M	/	2026-02-23	2027-02-22
Coaxial Cable	/	RC-18G-N- M	/	2026-02-23	2027-02-22
☐ Conducted Room 1#					
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2026-02-05	2027-02-04
EMI Test Receiver	Rohde & Schwarz	ESCI	100525	2025-11-25	2026-11-24
AC LISN	Schwarz beck	NSLK8126	8126-279	2026-02-23	2027-02-22
Coaxial Cable	/	RG 316	/	2026-02-23	2027-02-22
Coaxial Cable	/	6MRFC-DP	/	2026-02-23	2027-02-22
☒ Conducted Room 2#					
EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2026-02-05	2027-02-04
LISN	Rohde & Schwarz	ENV 216	100097	2026-02-05	2027-02-04
Coaxial Cable	/	RG 316	/	2026-02-23	2027-02-22

Software List			
Description	Manufacturer	Model	Version
EMI Test Software/EZ-EMC (Radiated Emission A)	Farad	RA-03A1	1.1.4.2
EMI Test Software/EZ-EMC (Radiated Emission B)	Farad	RA-03A1	1.1.4.2
EMI Test Software/EZ-EMC (Radiated Emission C)	Farad	RA-03A1-2	1.1.4.2
EMI Test Software/EZ-EMC (Conducted Emission Room 1#)	Farad	3A1*CE-RE	1.1.4.3
EMI Test Software/EZ-EMC (Conducted Emission Room 2#)	Farad	3A1*CE-RE	1.1.4.3

*Remark: indicates software version used in the compliance certification testing.

2. SUMMARY OF TEST RESULTS

Description of Test	Result
§15.107(a) Conducted Emission	Compliant
§15.109(a) Radiated Emission	Compliant

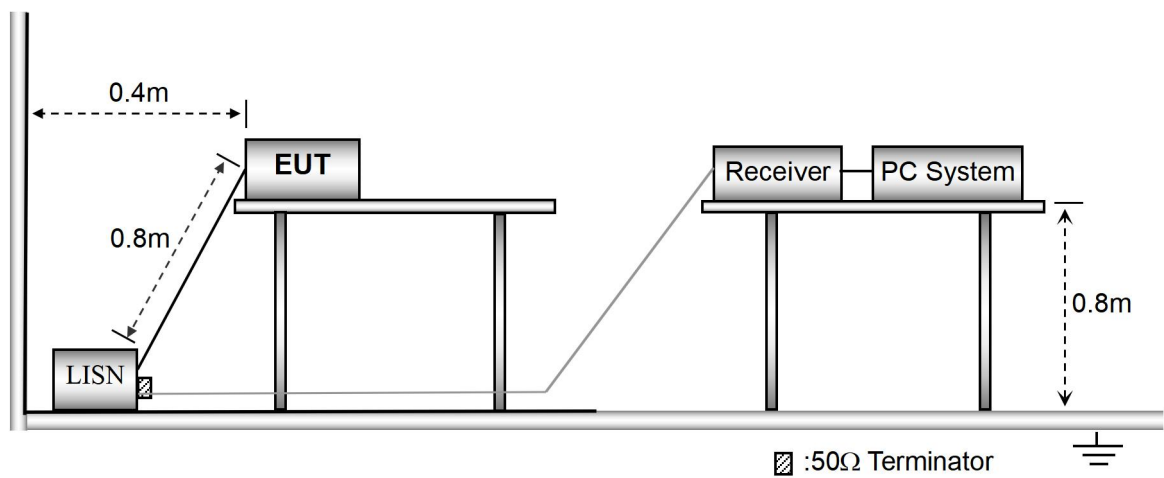
N/A: not applicable

3. Conducted Emissions

3.1 Test Procedure

The test is conducted under the description of ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

3.2 Basic Test Setup Block Diagram



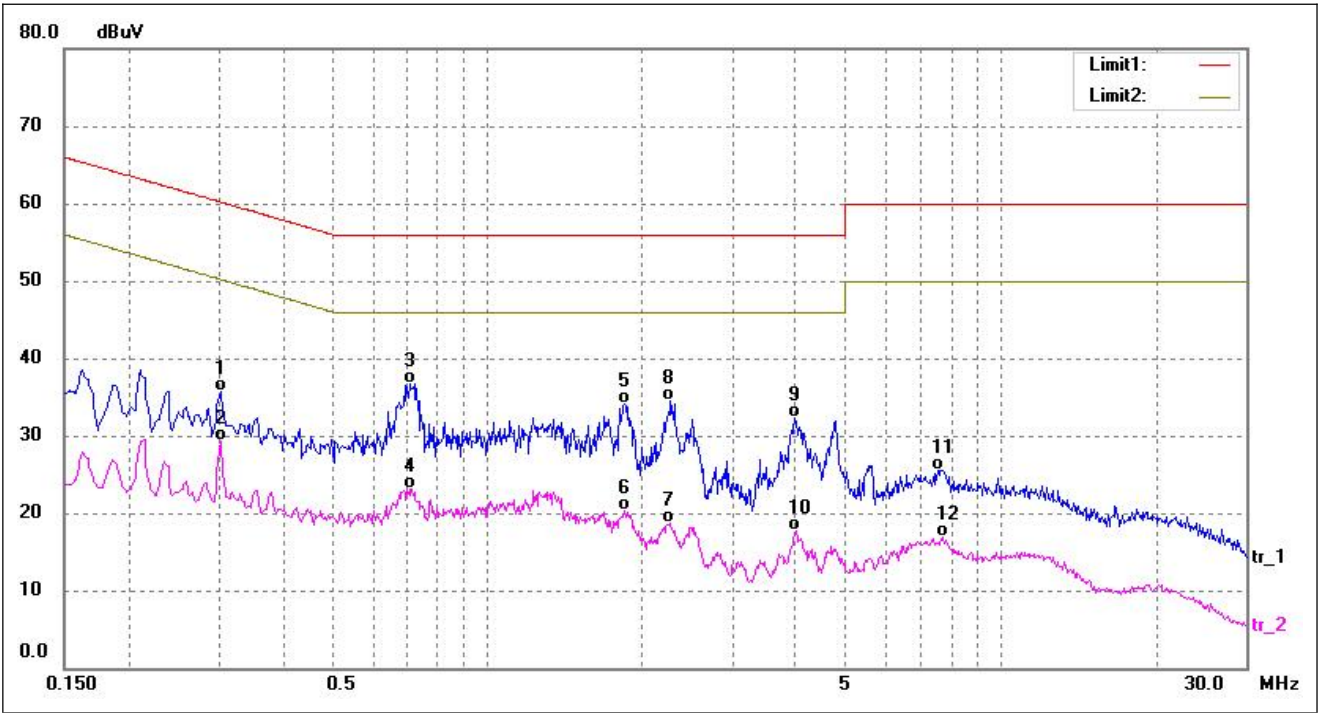
3.3 Environmental Conditions

Temperature:	24.5 °C
Relative Humidity:	51 %
ATM Pressure:	1014 mbar

3.4 Summary of Test Results

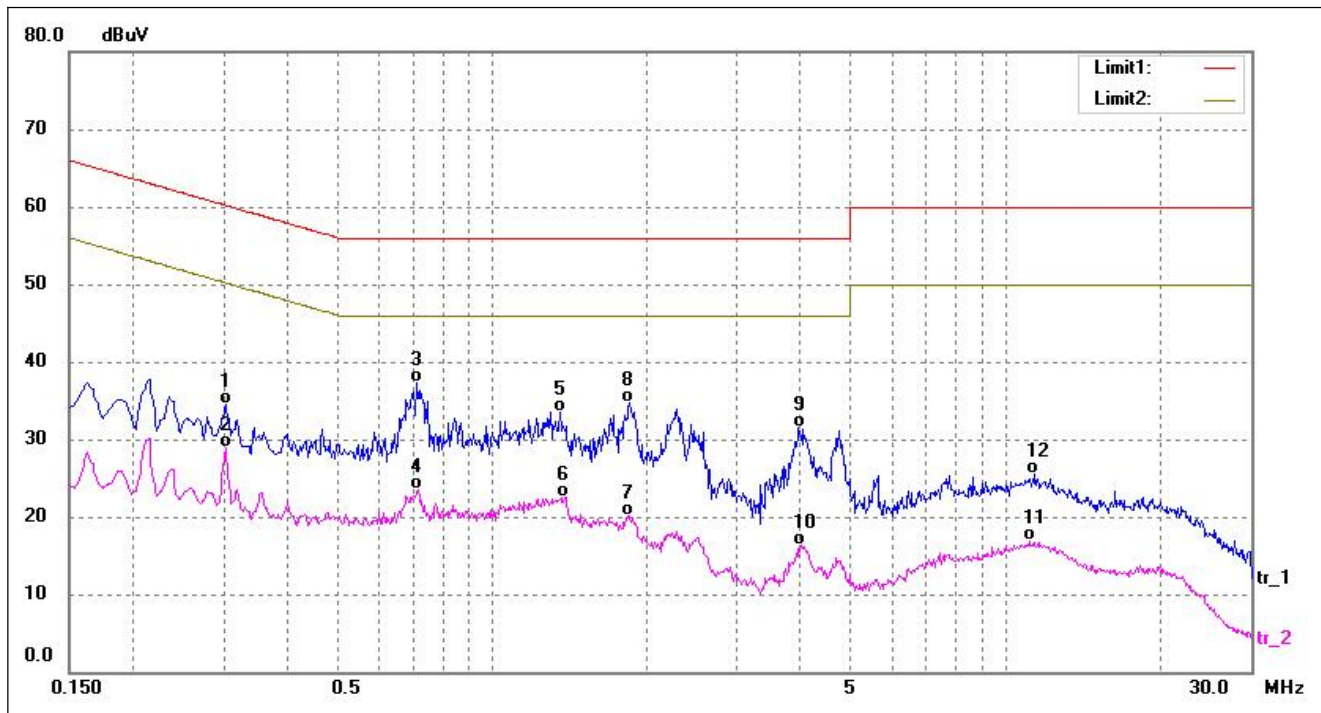
Please find the results below:

Test mode:	TM1	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3020	26.08	9.63	35.71	60.19	-24.48	QP
2	0.3020	19.73	9.63	29.36	50.19	-20.83	AVG
3*	0.7060	26.95	9.74	36.69	56.00	-19.31	QP
4	0.7140	13.39	9.74	23.13	46.00	-22.87	AVG
5	1.8500	24.71	9.42	34.13	56.00	-21.87	QP
6	1.8500	10.89	9.42	20.31	46.00	-25.69	AVG
7	2.2620	9.24	9.37	18.61	46.00	-27.39	AVG
8	2.2780	25.05	9.37	34.42	56.00	-21.58	QP
9	3.9740	22.87	9.46	32.33	56.00	-23.67	QP
10	4.0020	8.18	9.46	17.64	46.00	-28.36	AVG
11	7.5540	15.78	9.79	25.57	60.00	-34.43	QP
12	7.6940	7.11	9.79	16.90	50.00	-33.10	AVG

Test mode:	TM1	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3020	24.86	9.63	34.49	60.19	-25.70	QP
2	0.3020	19.35	9.63	28.98	50.19	-21.21	AVG
3*	0.7140	27.49	9.74	37.23	56.00	-18.77	QP
4	0.7180	13.74	9.74	23.48	46.00	-22.52	AVG
5	1.3540	23.94	9.62	33.56	56.00	-22.44	QP
6	1.3860	12.92	9.61	22.53	46.00	-23.47	AVG
7	1.8460	10.74	9.42	20.16	46.00	-25.84	AVG
8	1.8580	25.30	9.42	34.72	56.00	-21.28	QP
9	3.9540	22.09	9.46	31.55	56.00	-24.45	QP
10	4.0060	6.81	9.46	16.27	46.00	-29.73	AVG
11	11.1180	7.08	9.74	16.82	50.00	-33.18	AVG
12	11.3820	15.71	9.73	25.44	60.00	-34.56	QP

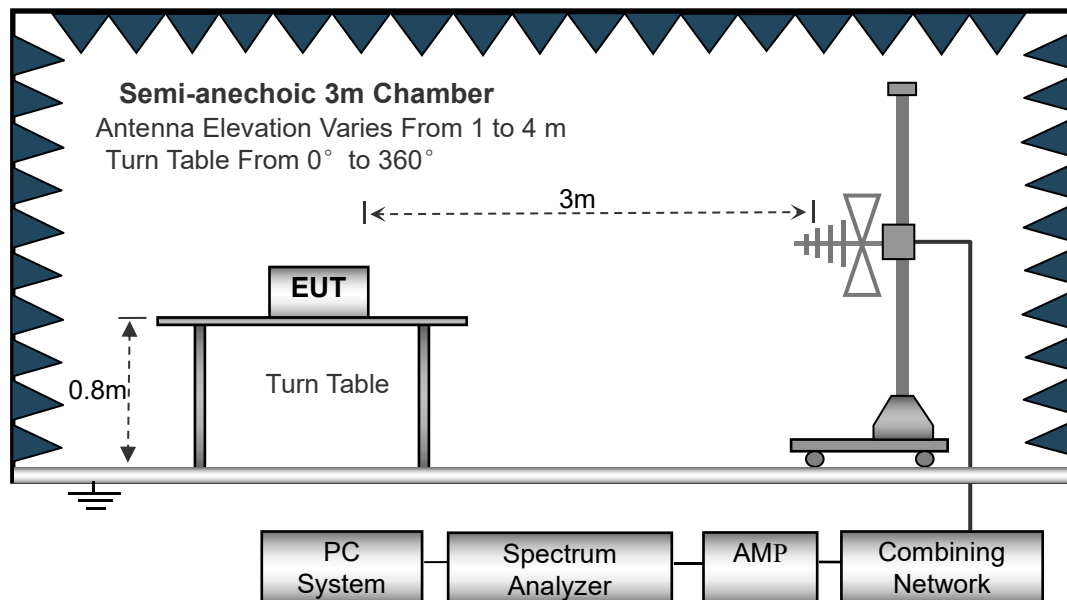
4. RADIATED EMISSION

4.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.109 Limit.

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.

4.2 Block Diagram of Test Setup



4.3 Test Receiver Setup

Frequency :9kHz-30MHz
 RBW=10kHz,
 VBW =30kHz
 Sweep time= Auto
 Trace = max hold
 Detector function = peak

Frequency :30MHz-1GHz
 RBW=120kHz,
 VBW=300kHz
 Sweep time= Auto
 Trace = max hold
 Detector function = peak, QP

Frequency :Above 1GHz
 RBW=1MHz,
 VBW=3MHz(Peak), 10Hz(AV)
 Sweep time= Auto
 Trace = max hold
 Detector function = peak, AV

4.4 Corrected Amplitude & Margin Calculation

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

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Correct} \\ \text{Correct} = \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dBμV means the emission is 6dBμV below the maximum limit for a Class B device. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15.109(a) Limit}$$

4.5 Environmental Conditions

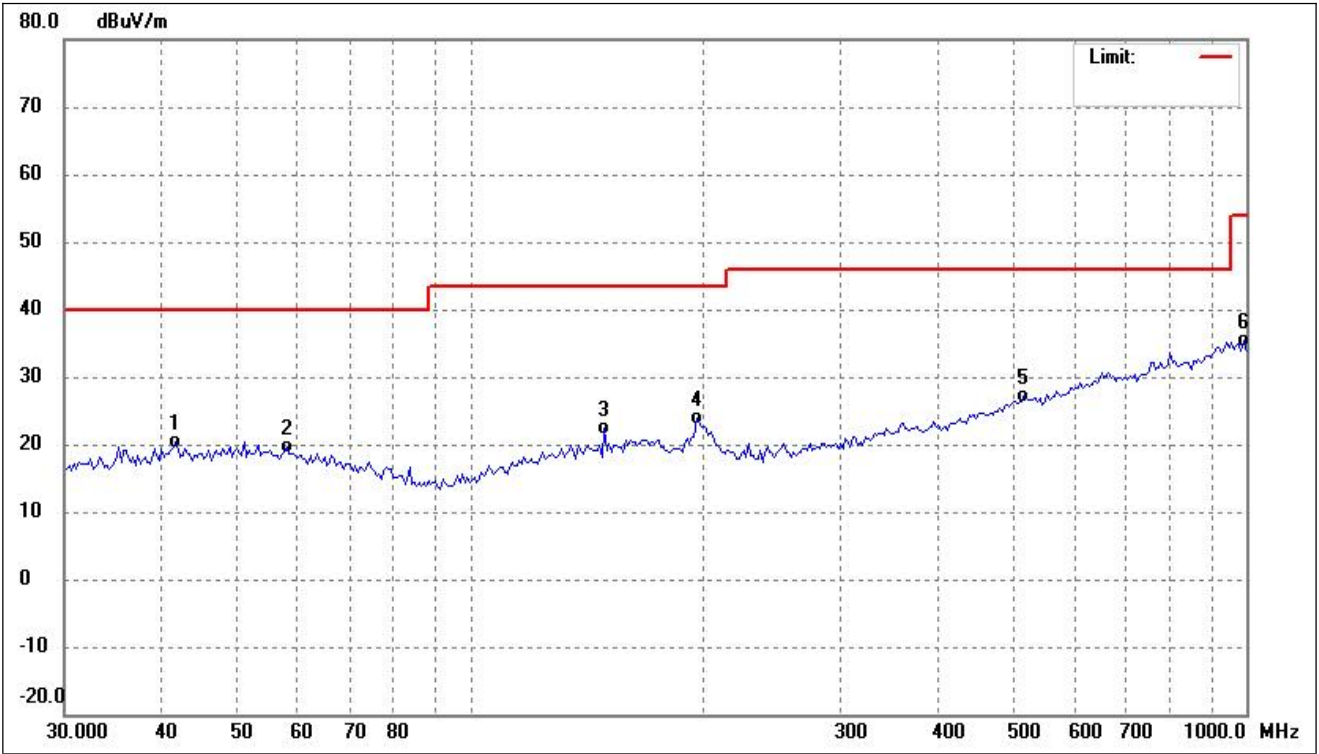
Temperature:	24.6 °C
Relative Humidity:	51 %
ATM Pressure:	1011 mbar

4.6 Summary of Test Results

Please find the results below:

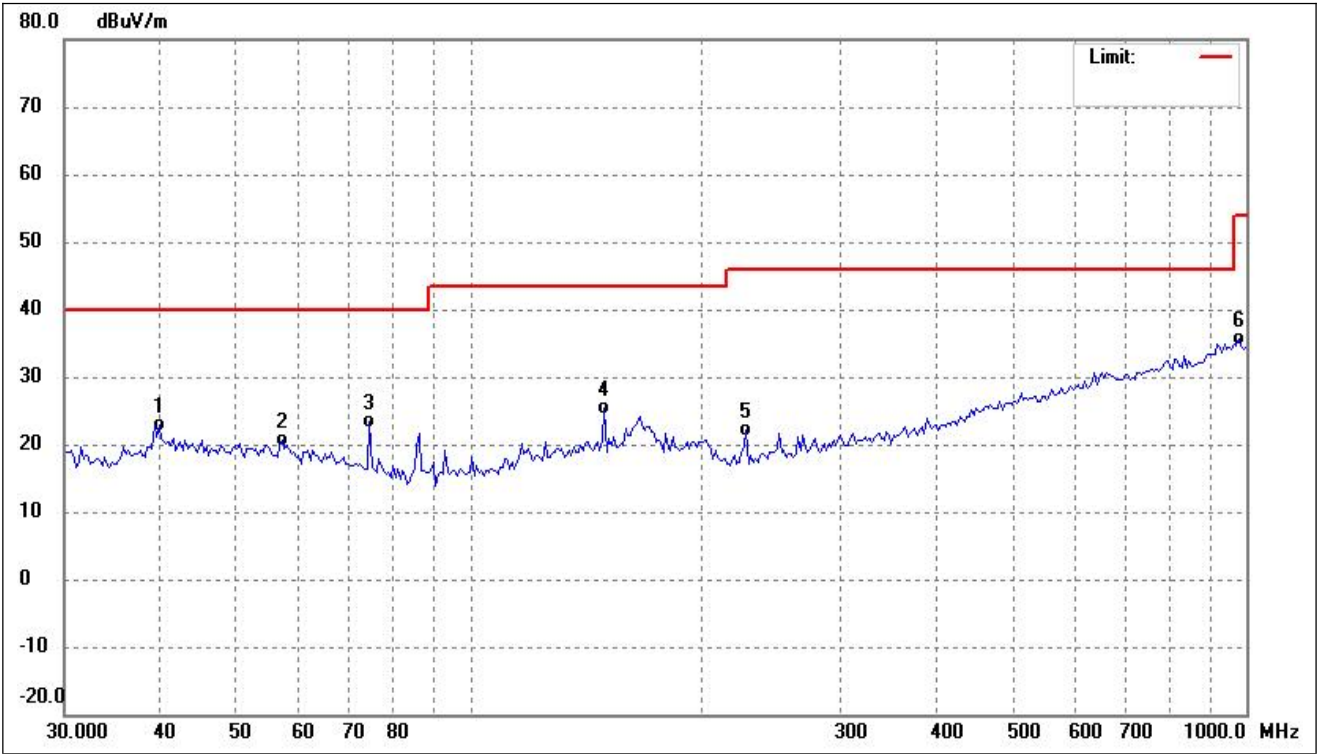
Below 1GHz

Test mode:	TM1	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	41.7406	29.03	-8.71	20.32	40.00	-19.68	-	-	QP
2	58.0759	28.40	-8.70	19.70	40.00	-20.30	-	-	QP
3	148.9175	30.83	-8.57	22.26	43.50	-21.24	-	-	QP
4	195.8701	35.52	-11.62	23.90	43.50	-19.60	-	-	QP
5	516.5651	30.31	-3.14	27.17	46.00	-18.83	-	-	QP
6	992.9975	31.72	3.68	35.40	54.00	-18.60	-	-	QP

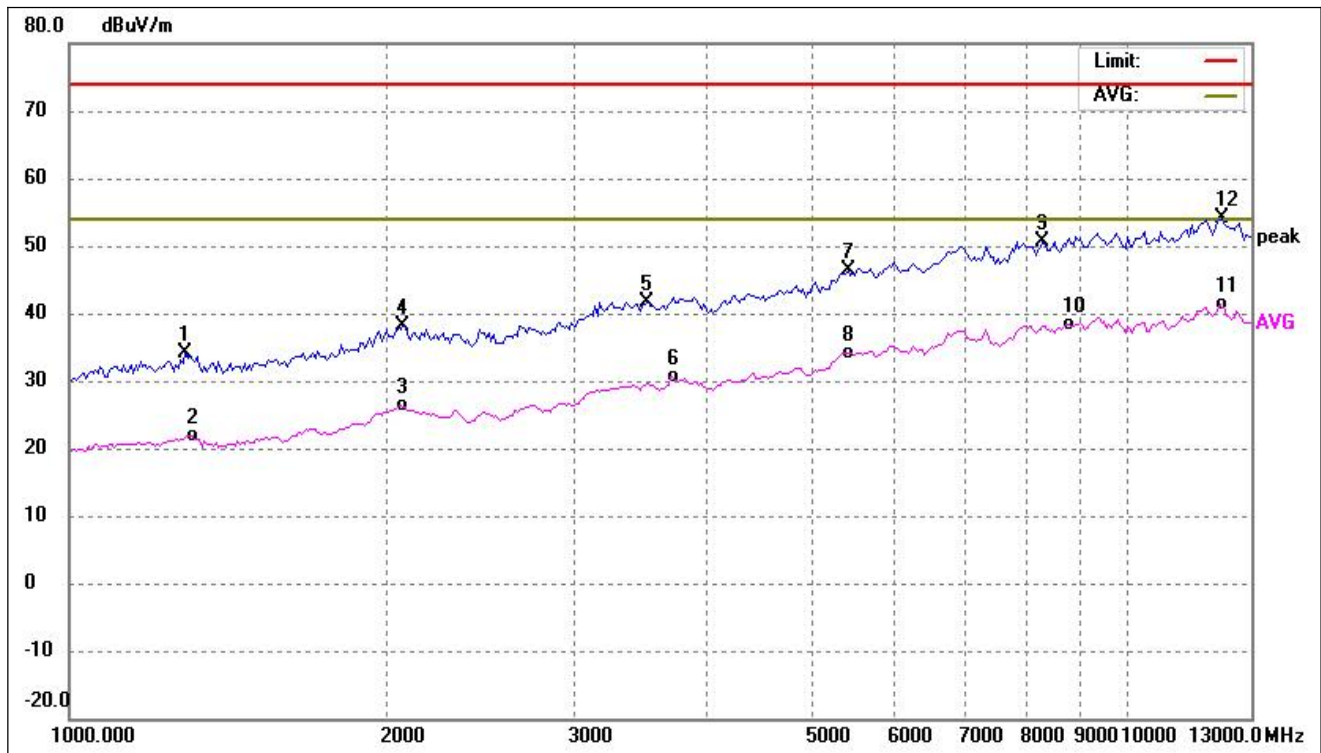
Test mode:	TM1	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	39.7371	31.90	-8.90	23.00	40.00	-17.00	-	-	QP
2	57.2654	29.15	-8.64	20.51	40.00	-19.49	-	-	QP
3	74.2696	34.66	-11.23	23.43	40.00	-16.57	-	-	QP
4	148.9175	33.93	-8.57	25.36	43.50	-18.14	-	-	QP
5	227.0164	33.51	-11.45	22.06	46.00	-23.94	-	-	QP
6	979.1392	32.01	3.65	35.66	54.00	-18.34	-	-	QP

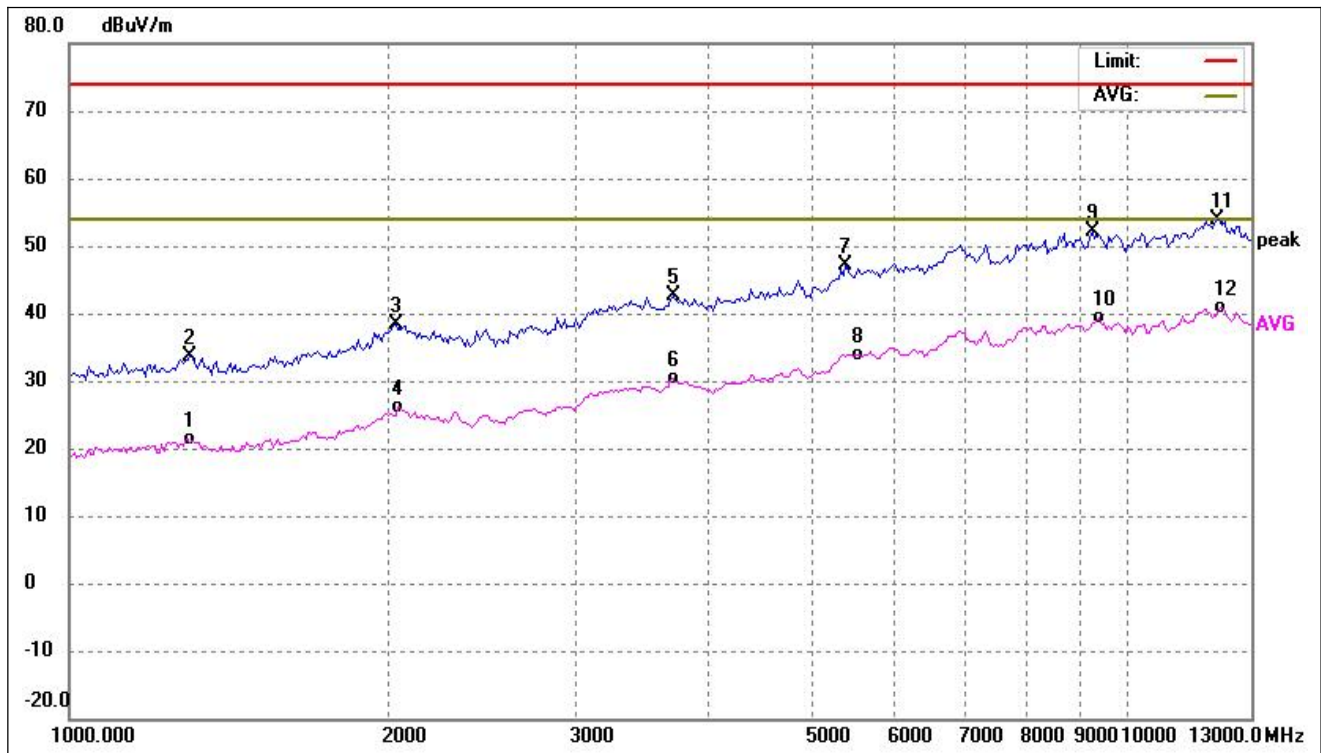
Above 1GHz

Test mode:	TM1	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	1286.427	56.88	-22.79	34.09	74.00	-39.91	-	-	peak
2	1306.418	44.65	-22.68	21.97	54.00	-32.03	-	-	AVG
3	2053.663	44.65	-18.30	26.35	54.00	-27.65	-	-	AVG
4	2064.246	56.67	-18.45	38.22	74.00	-35.78	-	-	peak
5	3505.046	56.11	-14.41	41.70	74.00	-32.30	-	-	peak
6	3689.923	44.08	-13.57	30.51	54.00	-23.49	-	-	AVG
7	5425.548	55.96	-9.55	46.41	74.00	-27.59	-	-	peak
8	5425.548	43.77	-9.55	34.22	54.00	-19.78	-	-	AVG
9	8269.827	54.81	-4.13	50.68	74.00	-23.32	-	-	peak
10	8750.891	42.81	-4.39	38.42	54.00	-15.58	-	-	AVG
11	12159.698	41.82	-0.54	41.28	54.00	-12.72	-	-	AVG
12	12222.362	54.71	-0.64	54.07	74.00	-19.93	-	-	peak

Test mode:	TM2	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	1293.057	43.95	-22.64	21.31	54.00	-32.69	-	-	AVG
2	1299.720	56.25	-22.50	33.75	74.00	-40.25	-	-	peak
3	2032.659	56.83	-18.49	38.34	74.00	-35.66	-	-	peak
4	2043.134	44.37	-18.35	26.02	54.00	-27.98	-	-	AVG
5	3708.938	56.10	-13.44	42.66	74.00	-31.34	-	-	peak
6	3708.938	43.90	-13.44	30.46	54.00	-23.54	-	-	AVG
7	5397.731	56.92	-9.71	47.21	74.00	-26.79	-	-	peak
8	5538.256	42.92	-8.94	33.98	54.00	-20.02	-	-	AVG
9	9212.464	55.61	-3.47	52.14	74.00	-21.86	-	-	peak
10	9355.626	42.55	-3.27	39.28	54.00	-14.72	-	-	AVG
11	12097.355	54.39	-0.53	53.86	74.00	-20.14	-	-	peak
12	12159.698	41.38	-0.54	40.84	54.00	-13.16	-	-	AVG

Remark: '-' Means' the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

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