

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100023502

Page: 1 of 21

# TEST REPORT

Application No.: SZCR2501000235ET

**Applicant:** Hong Kong Fenical Trading Co., Ltd.

Address of Applicant: UNIT C 9/F WINNING HOUSE 72-76 WING LOK STREET, SHEUNG WAN,

HONG KONG, 999077, CHINA

Manufacturer: Shantou City Chenghai District ChenFei Toys Factory

Address of Manufacturer: Jinxi Road No.38, Yinbei Village, Xinan Town, Chenghai District, Shantou

City, Guangdong Province, China

Factory: Shantou City Chenghai District ChenFei Toys Factory

Address of Factory: Jinxi Road No.38, Yinbei Village, Xinan Town, Chenghai District, Shantou

City, Guangdong Province, China

**Equipment Under Test (EUT):** 

**EUT Name:** RC STORM CLIMBING CAR W LIGHT

**Model No.:** FE2412116 ♣

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

FCC ID: 2AWPAFE2412116

Standard(s): 47 CFR Part 15, Subpart C 15.227

**Date of Receipt:** 2025-01-15

**Date of Test:** 2025-01-16 to 2025-01-21

**Date of Issue:** 2025-01-23

Test Result: Pass\*

Keny Xu EMC Laboratory Manager

Ceny. Ku

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100023502

Page: 2 of 21

	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2025-01-23		Original			

Authorized for issue by:		
	Gebin Sun	
	Gebin Sun/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100023502

> Page: 3 of 21

#### **Test Summary** 2

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.227	N/A	47 CFR Part 15, Subpart C 15.203	Pass		

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.227	Pass		
Field Strength of the Fundamental Signal (15.227(a))	47 CFR Part 15, Subpart C 15.227	ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.227(a)	Pass		
Radiated Emissions		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.227(b) & C 15.209	Pass		

#### Remark:

Model No.: FE2412116

There are two colors of the above model, only the bule one was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on appearance color.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100023502

Page: 4 of 21

## 3 Contents

		Page
1	1 Cover Page	1
2	2 Test Summary	3
_	rest Julilliary	
3	3 Contents	4
4	4 General Information	5
	4.1 Details of E.U.T	
	4.2 Description of Support Units	
	4.3 Measurement Uncertainty	
	4.4 Test Location	
	4.5 Test Facility	
	4.6 Deviation from Standards	
	4.7 Abnormalities from Standard Conditions	
5	5 Equipment List	7
•	Canbuilding Fish and a second	
6	Radio Spectrum Technical Requirement	9
	6.1 Antenna Requirement	c
	6.1.1 Test Requirement:	
	6.1.2 Conclusion	
7	7 Radio Spectrum Matter Test Results	10
	7.1 20dB Bandwidth	10
	7.1.1 E.U.T. Operation	
	7.1.2 Test Mode Description	
	7.1.3 Test Setup Diagram	
	7.1.4 Measurement Procedure and Data	
	7.2 Field Strength of the Fundamental Signal (15.227(a))	12
	7.2.1 E.U.T. Operation	12
	7.2.2 Test Mode Description	
	7.2.3 Test Setup Diagram	
	7.2.4 Measurement Procedure and Data	
	7.3 Radiated Emissions	
	7.3.1 E.U.T. Operation	
	7.3.2 Test Mode Description	
	7.3.3 Test Setup Diagram	
_		
8	8 Test Setup Photo	21
9	9 FUT Constructional Details (FUT Photos)	21



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100023502

> Page: 5 of 21

## **General Information**

#### Details of E.U.T. 4.1

Power supply:	3V DC(1.5V x 2 "AA" Size Batteries) for TX
Operation Frequency	27.145MHz
Modulation Type:	FSK
Antenna Type:	Wire Antenna
Antenna Gain:	0dBi

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

## 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
RF cable	supplied by SGS	N/A(cable loss:0.6dB)	REF. No.SEL000089

## 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
20dB Bandwidth	3%
Field Strength of the Fundamental Signal (15.227(a))	± 3.6dB
Radiated Emissions	± 6.0dB for 3m; ± 5.0dB for 10m

### Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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> Page: 6 of 21

#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

## 4.5 Test Facility

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

## • A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

## VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz. 10m Semi-anechoic chamber for below 1GHz. Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

### • FCC -Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

## Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 4.6 Deviation from Standards

None

## 4.7 Abnormalities from Standard Conditions

None



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100023502

Page: 7 of 21

#### 5 **Equipment List**

20dB Bandwidth							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13		
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26		

Field Strength of the Fundamental Signal (15.227(a))							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14		
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22		
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05		
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19		

Radiated Emissions					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19



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Report No.: SZCR250100023502

Page: 8 of 21

General used equipment						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23	
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23	
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17	



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> Page: 9 of 21

#### **Radio Spectrum Technical Requirement** 6

## 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

## 6.1.2 Conclusion

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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.

Antenna location: Refer to Internal photos



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100023502

Page: 10 of 21

#### **Radio Spectrum Matter Test Results** 7

### 7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.227 Test Method: ANSI C63.10 (2013) Section 6.9

## 7.1.1 E.U.T. Operation

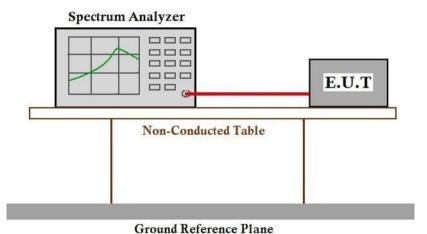
Operating Environment:

Temperature: 21.8 °C Humidity: 31.7 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode

### 7.1.3 Test Setup Diagram



### 7.1.4 Measurement Procedure and Data



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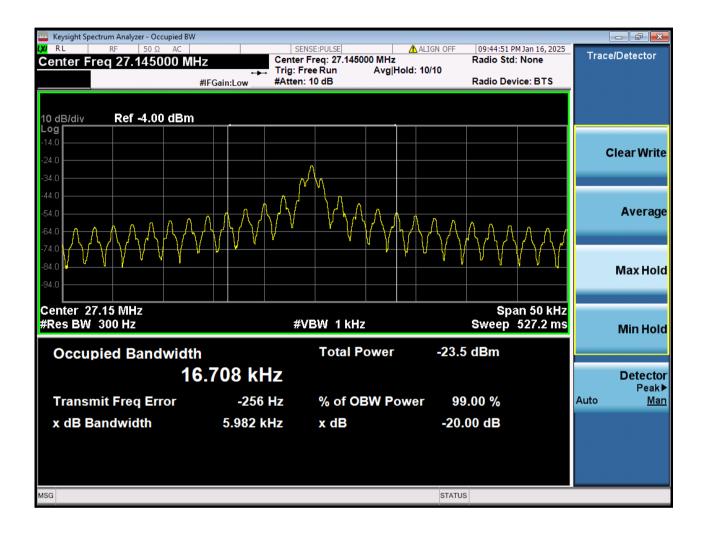
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Report No.: SZCR250100023502

Page: 11 of 21





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100023502

> Page: 12 of 21

## 7.2 Field Strength of the Fundamental Signal (15.227(a))

Test Requirement 47 CFR Part 15, Subpart C 15.227(a) Test Method: ANSI C63.10 (2013) Section 6.4

Measurement Distance: 3m

Limit:

Limit: ≤ 10000 microvolts/meter at 3 meters, the emission limit is based on

measurement instrumentation employing an average Detector:. The

provisions in § 15.35 for limiting peak emissions apply.

## 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode Keep the EUT in transmitting with modulation mode



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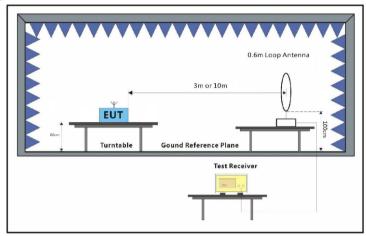
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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100023502

> Page: 13 of 21

### 7.2.3 Test Setup Diagram



#### 7.2.4 Measurement Procedure and Data

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1Ghz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

#### Remark:

As shown in this section, for Field Strength of the Fundamental Signal limits are based on average limits. However, the peak field strength of the Fundamental Signal was not exceed the average limits specified under any condition of modulation. So, only peak field strength data of the Fundamental Signal was shown in the report.



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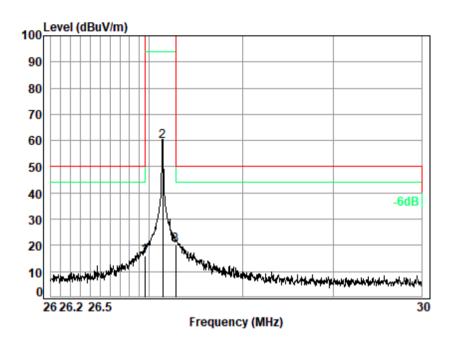


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100023502

Page: 14 of 21

Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 00235ET

Test mode: 00

	Freq	Ant Factor		Preamp Factor					
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	26.960	22.42	0.60	27.80	20.74	15.96	50.00	-34.04	QP
2	27.148	22.33	0.60	27.80	64.38	59.51	100.00	-40.49	QP
3 q	27.285	22.26	0.60	27.80	24.95	20.01	50.00	-29.99	QP



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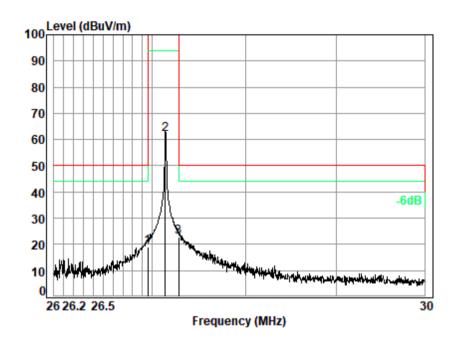


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100023502

Page: 15 of 21

Test Mode: 00; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 00235ET

Test mode: 00

	Freq	Ant Factor		Preamp Factor					Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	26.960	22.42	0.60	27.80	23.93	19.15	50.00	-30.85	QP
2	27.144	22.33	0.60	27.80	67.00	62.13	100.00	-37.87	QP
3 q	27.285	22.26	0.60	27.80	27.60	22.66	50.00	-27.34	QP



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100023502

Page: 16 of 21

### 7.3 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.227(b) & C 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)		
0.009-0.490	2400/F(kHz)	300		
0.490-1.705	24000/F(kHz)	30		
1.705-30.0	30	30		

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz and 110-490kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)		
30-88	100	3		
88-216	150	3		
216-960	200	3		
Above 960	500	3		

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for above 1000MHz. Radiated emission limits above 1000MHz is based on measurements employing an average detector.

## 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C Atmospheric Pressure: 1020 mbar Humidity: 45.2 % RH

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	scription  mode. Keep the FLIT in transmitting with modulation mode.				
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode				



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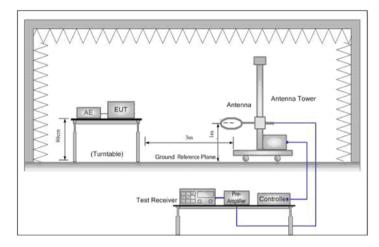


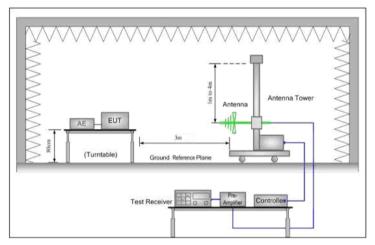
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100023502

Page: 17 of 21

### 7.3.3 Test Setup Diagram







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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100023502

> Page: 18 of 21

#### 7.3.4 Measurement Procedure and Data

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Remark1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark2: Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed.



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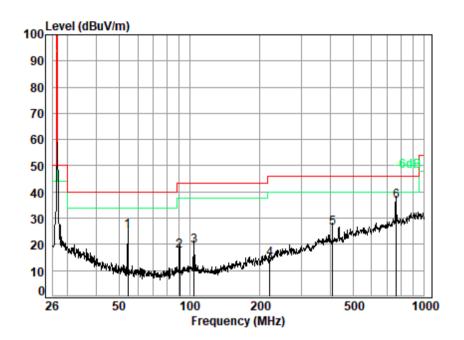


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100023502

Page: 19 of 21

Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 00235ET

Test mode: 00

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	54.344	12.07	0.80	27.72	39.89	25.04	40.00	-14.96	QP
2									_
3	104.440	12.22	1.21	27.57	33.68	19.54	43.50	-23.96	QP
4	219.894	15.14	1.52	27.09	25.04	14.61	46.00	-31.39	QP
5	407.459	20.52	2.24	27.19	30.68	26.25	46.00	-19.75	QP
6 a	763.322	26.50	3.10	27.57	34.43	36.46	46.00	-9.54	OP



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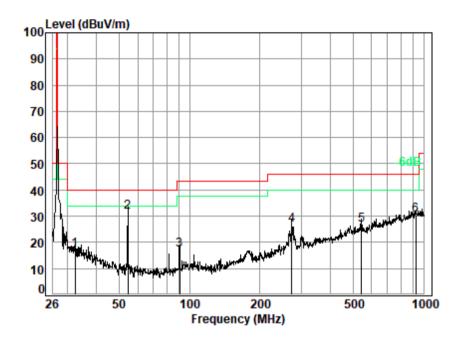


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100023502

Page: 20 of 21

Test Mode: 00; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 00235ET Test mode: 00

Ant Cable Preamp Limit 0ver Read Loss Factor Freq Factor Level Line Limit Remark Level MHz dB/m dB dBuV dBuV/m dBuV/m 20.13 24.26 17.20 40.00 -22.80 OP 32.365 0.60 27.79 2 q 54.344 12.07 0.80 27.72 46.28 31.43 40.00 -8.57 OP 90.584 11.78 1.10 27.62 31.88 17.14 43.50 -26.36 QP 273.726 17.10 1.79 26.86 34.46 26.49 46.00 -19.51 QP 543.626 23.77 2.65 27.74 28.05 26.73 46.00 -19.27 OP 926.221 28.12 3.63 26.58 25.13 30.30 46.00 -15.70 OP



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> Page: 21 of 21

#### **Test Setup Photo** 8

Refer to Appendix - Test Setup Photo for SZCR2501000235ET

#### **EUT Constructional Details (EUT Photos)** 9

Refer to External and Internal Photos for SZCR2501000235ET

- End of the Report -



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