

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231100379602

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# TEST REPORT

Application No.: SZCR2311003796AT

Applicant: WEILONG TOYS FACTORY

Address of Applicant: LANE 1, FENGXIANG DONGHU AVENUE, CHENGHAI DISTRICT

SHANTOU China

Manufacturer: WEILONG TOYS FACTORY

Address of Manufacturer: LANE 1, FENGXIANG DONGHU AVENUE, CHENGHAI DISTRICT

SHANTOU China

**Equipment Under Test (EUT):** 

**EUT Name:** Electric toy series

**Model No.:** 605, 300, 007, 810, 260, 269, 955, 998, 678, 686, 288, T31, T32, T33, T35,

T36, T38, T39, K11, K12, K13, K15, K16, K18, K19, M61, M62, M63, M65,

M66, M68, M69 🔸

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

actually tested and which were electrically identical.

**FCC ID:** 2ATNK-WL3007605K12

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

**Date of Receipt:** 2023-11-23

**Date of Test:** 2023-11-24 to 2023-12-05

**Date of Issue:** 2023-12-08

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.



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2023-12-08		Original			

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



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## **Test Summary**

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			

### **Declaration of EUT Family Grouping:**

Model No.: 605, 300, 007, 810, 260, 269, 955, 998, 678, 686, 288, T31, T32, T33, T35, T36, T38, T39, K11, K12, K13, K15, K16, K18, K19, M61, M62, M63, M65, M66, M68, M69

Only the model 605 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on color, appearance and package.



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### **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
The EUT has been tested as	an independent unit.		

### 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 U<sub>lab</sub> (lab Uncertainty) is less than U<sub>cispt/ETSI</sub> (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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### 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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#### 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	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-22	2024-03-21
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-04-06	2024-04-05

Field Strength of the Fundamental Signal (15.249(a))							
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	2023-10-19	2024-10-18		
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15		
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06		
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	2023-10-19	2024-10-18
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19



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General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22



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## Radio Spectrum Technical Requirement

### 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 external photos



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## **Radio Spectrum Matter Test Results**

### 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

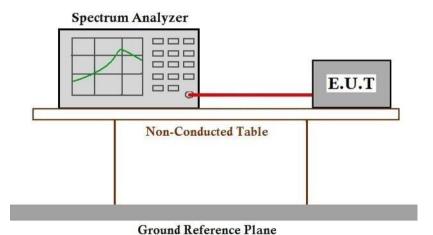
Operating Environment:

Temperature: 23.2 °C Humidity: 51.4 % RH Atmospheric Pressure: 1000 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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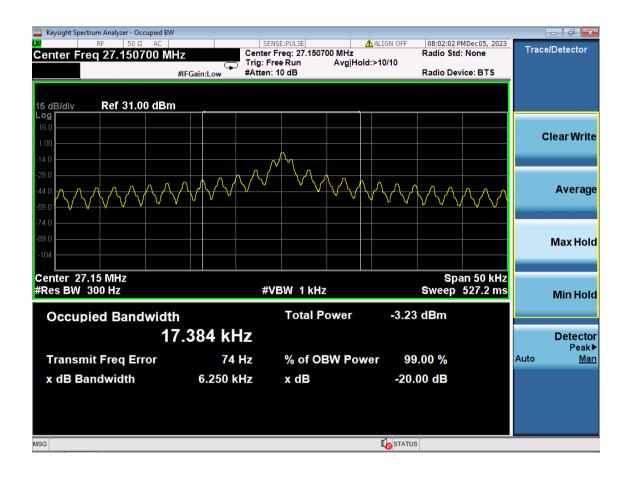
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### 7.2 Field Strength of the Fundamental Signal (15.227(a))

**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: 23.5 °C Humidity: 48.8 % RH Atmospheric Pressure: 1000 mbar

7 2 2 Test Mode Description

7.2.2 TC3t W	Scription	
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode Keep the EUT in transmitting with modulation mode



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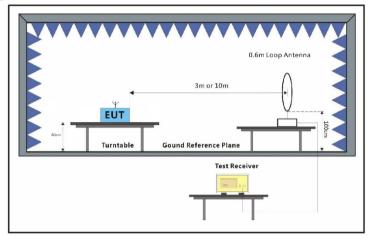
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### 7.2.3 Test Setup Diagram



#### 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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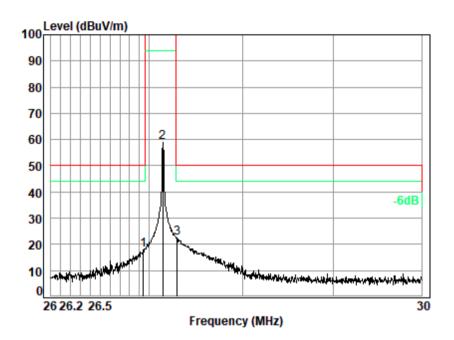


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Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03796AT

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	26.947	22.42	0.60	27.81	22.73	17.94	50.00	-32.06	Peak
2	27.148	22.33	0.60	27.81	63.92	59.04	100.00	-40.96	Peak
3 p	27.300	22.26	0.60	27.81	27.36	22.41	50.00	-27.59	Peak



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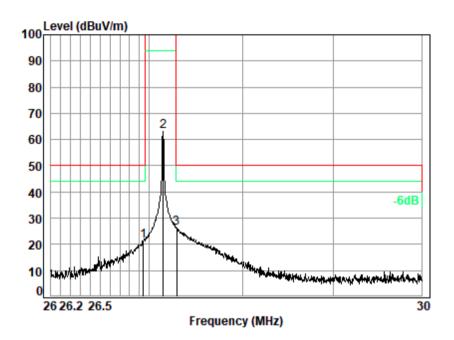


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Test Mode: 00; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No. : 03796AT

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	d Bu V/m	dB	
1	26.947	22.42	0.60	27.81	26.20	21.41	50.00	-28.59	Peak
2	27.152	22.33	0.60	27.81	67.98	63.10	100.00	-36.90	Peak
3 p	27.296	22.26	0.60	27.81	31.14	26.19	50.00	-23.81	Peak



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### 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.



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### 7.3.1 E.U.T. Operation

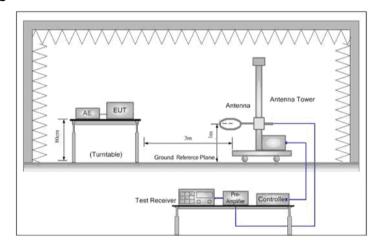
**Operating Environment:** 

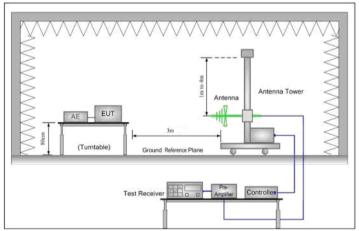
Temperature: 23.2 °C Humidity: 45.8 % RH Atmospheric Pressure: 1000 mbar

#### 7.3.2 Test Mode Description

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

### 7.3.3 Test Setup Diagram







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#### 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
- 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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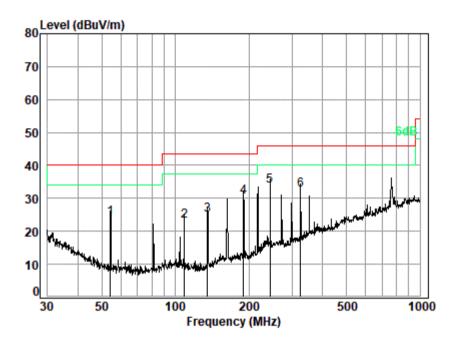


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Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03796AT

Test Mode: 00

	Freq	Ant Factor	Cable Loss						Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	54.261	12.09	0.87	27.74	38.81	24.03	40.00	-15.97	QP
2	108.647	12.03	1.24	27.58	37.42	23.11	43.50	-20.39	QP
3	135.506	11.43	1.38	27.48	39.73	25.06	43.50	-18.44	QP
4	189.739	14.30	1.67	27.29	41.65	30.33	43.50	-13.17	QP
5 q	244.232	17.08	1.92	27.09	41.95	33.86	46.00	-12.14	QP
6	325 596	18 62	2 27	27 00	38 53	32 42	46 99	-13 58	OP



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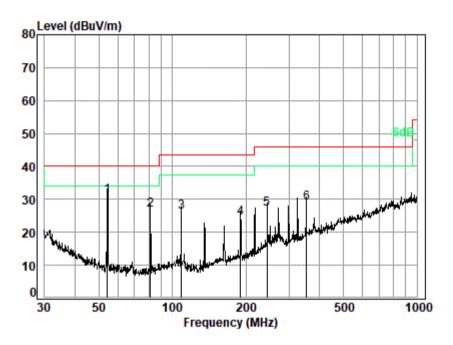


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Test Mode: 00; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL : 03796AT Job No.

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 q	54.261	12.09	0.87	27.74	45.82	31.04	40.00	-8.96	QP
2	81.497	10.58	1.07	27.66	42.69	26.68	40.00	-13.32	QP
3	108.647	12.03	1.24	27.58	40.42	26.11	43.50	-17.39	QP
4	189.739	14.30	1.67	27.29	35.67	24.35	43.50	-19.15	QP
5	244.232	17.08	1.92	27.09	35.05	26.96	46.00	-19.04	QP
6	352.943	20.04	2.37	27.13	33.54	28.82	46.00	-17.18	QP



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## **Test Setup Photo**

Refer to Setup Photo for SZCR2311003796AT

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

Refer to External and Internal Photos for SZCR2311003796AT

- End of the Report -



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