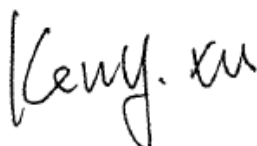


TEST REPORT

Application No.: SZCR2105021254ET(SGS HK No.:T32120260034EM)
Applicant: New-Ray Toys Co., Ltd.
Address of Applicant: Unit 9-11, 12/F Houston Centre, 63 Mody Road, Tsimshatsui East, Kowloon, Hong Kong, China
Manufacturer: Good Choice Company Limited
Address of Manufacturer: No.6,Dong Hao Road, Pengwu Village, Dongkeng Town, Dongguan City, Guangdong Province, China
Equipment Under Test (EUT):
EUT Name: Radio Control Series – Vehicles, Cars, Trucks, Monster Truck, Tanks, Motorcycles, ATV, Snowmobile, Fire Engine, Bus, Forklift, Construction, Volvo, Tractor
Model No.: 89393
FCC ID: Q4S89393
P.O./Ref. No.: Please refer to section 2
Country of Origin: CHINA
Request Test Age: 3+
Labelled Age Grading: 3+
Standard(s) : 47 CFR Part 15, Subpart C 15.227
Date of Receipt: 2021-05-27
Date of Test: 2021-06-02 to 2021-06-04
Date of Issue: 2021-06-09

Test Result:	Pass*
---------------------	--------------

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



Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-06-09		Original

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

2 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	47 CFR Part 15, Subpart C 15.227	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass
Field Strength of the Fundamental Signal (15.227(a))		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



P.O./Ref. No.:

00645C	00655	00783	00817	01693	01785	01953	01955	01956	01963	01993	02003
08605	08616	08617	08618	08619	08753	08786	08791	08793	08794	08821	08848
08851	08852	08855	08857	08864	08867	08870	08871	20063	20073	61395	61395I
61505	61515	61525	66086	66086A	66096	66096A	66156	66166	66166A	66176	66176A
76505	85353	87293	87533	87543	87563	87573	87775	87843	87863	87865	
87893	87913	87193A	87533AST	87533I	87913A	87933	87933A	87943	88003A	88133	88213
88215A	88233	88473	88483	88515	88525	88553	88555	88573	88595	88613	88633
88643B	88643C	88673	88703	88704	88704A	88704B	88713	88714	88753	88763	88773
88785	88793	88793A	88793B	88803	88813I	88815	88825	88825A	88825B	88853	88853A
88863	88873	88883	88893	88893A	88893B	88896	88896A	88896B	89393	89403	89413
89826	886771	888131	AS-20063	AS-87293	AS-88525	AS-88763	AS-88853	SS-33033	SS-33043	SS-33123	SS-33133C
SS-33143	SS-33153	SS-33173	SS-34123	SS-34133	SS-34143	SS-34153	SS-34173	SS-34183	SS-66126A	SS-66126B	SS-66146A
SS-66146B	SS-66226	SS-87073	SS-88253A	SS-87283	SS-87290	SS-87293	SS-87843A	SS-87933	SS-87943B	SS-88233B	SS-88233C
SS-88243	SS-88253	SS-88253B	SS-88713A	SS-88713B	SS-88753	SS-88763	SS-88773				

Remark:

The above P.O./Ref. No. are identical in circuitry design, PCB layout, electrical components used, internal wiring and functions with the model 89393 which was tested in this report and only different on color and body shape.



3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	5
4 GENERAL INFORMATION	6
4.1 DETAILS OF E.U.T.	6
4.2 DESCRIPTION OF SUPPORT UNITS	6
4.3 MEASUREMENT UNCERTAINTY	6
4.4 TEST LOCATION.....	7
4.5 TEST FACILITY.....	7
4.6 DEVIATION FROM STANDARDS.....	7
4.7 ABNORMALITIES FROM STANDARD CONDITIONS	7
5 EQUIPMENT LIST.....	8
6 RADIO SPECTRUM TECHNICAL REQUIREMENT	10
6.1 ANTENNA REQUIREMENT	10
6.1.1 Test Requirement:	10
6.1.2 Conclusion	10
7 RADIO SPECTRUM MATTER TEST RESULTS.....	11
7.1 20DB BANDWIDTH	11
7.1.1 E.U.T. Operation.....	11
7.1.2 Test Mode Description.....	11
7.1.3 Test Setup Diagram.....	11
7.1.4 Measurement Procedure and Data.....	11
7.2 FIELD STRENGTH OF THE FUNDAMENTAL SIGNAL (15.227(A)).....	13
7.2.1 E.U.T. Operation.....	13
7.2.2 Test Mode Description.....	13
7.2.3 Test Setup Diagram.....	13
7.2.4 Measurement Procedure and Data.....	14
7.3 RADIATED EMISSIONS.....	17
7.3.1 E.U.T. Operation.....	17
7.3.2 Test Mode Description.....	17
7.3.3 Test Setup Diagram.....	18
7.3.4 Measurement Procedure and Data.....	18
8 TEST SETUP PHOTO	21
9 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	21



4 General Information

4.1 Details of E.U.T.

Power supply:	4.5V DC(1.5V x 3 "AA" Size Batteries) for TX
Operation Frequency	27.145MHz
Sample Type:	Portable production
Antenna Type:	Integral

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
20dB Bandwidth	$\pm 3\%$
Field Strength of the Fundamental Signal (15.227(a))	$\pm 4.5\text{dB}$ (below 1GHz)
Radiated Emissions	$\pm 4.5\text{dB}$ (Below 1GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR 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.

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, 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: CN1178**

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **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
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2021-04-08	2022-04-07
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021-04-08	2022-04-07

Field Strength of the Fundamental Signal (15.227(a))					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI receiver (3Hz-3.6GHz)	KEYSIGHT	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13

Radiated Emissions (below 30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI receiver (3Hz-3.6GHz)	KEYSIGHT	N9038A	SEM004-15	2020-11-02	2021-11-01
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13

Radiated Emissions(30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI receiver (3Hz-3.6GHz)	KEYSIGHT	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29



6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 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.

6.1.2 Conclusion

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement.

Antenna location: Refer to External photos



7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
Test Method: ANSI C63.10 (2013) Section 6.9

7.1.1 E.U.T. Operation

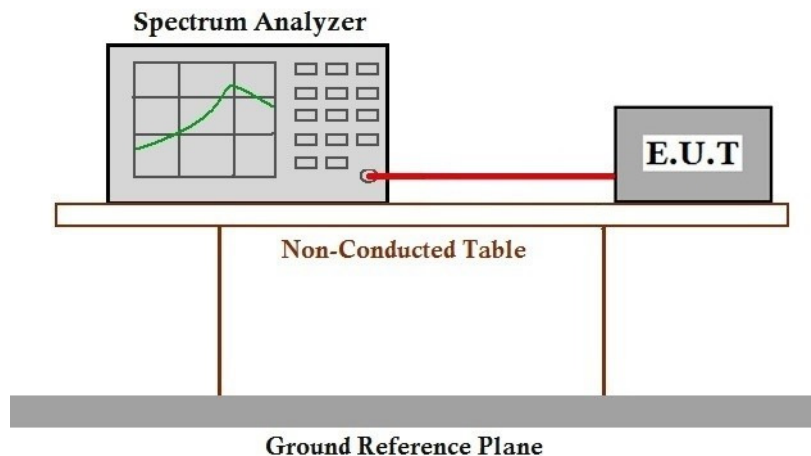
Operating Environment:

Temperature: 24.4 °C Humidity: 45.1 % RH Atmospheric Pressure: 1010 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

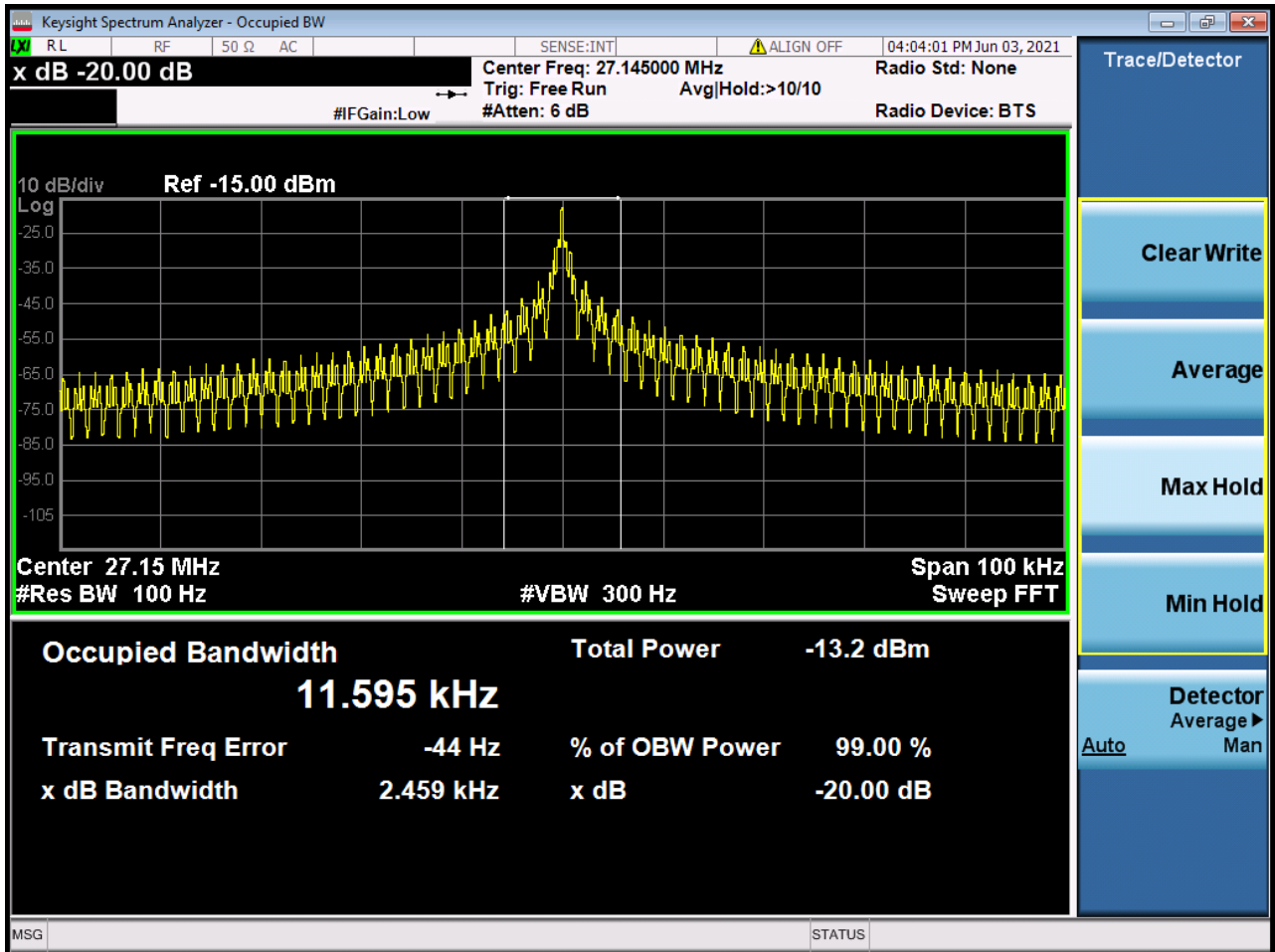


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Test Mode: OBW_27.145MHz_



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: ≤ 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.

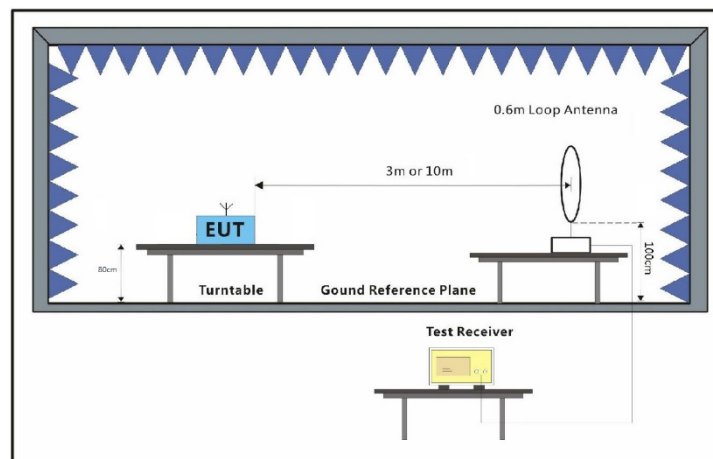
7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 26.0 °C Humidity: 60.1 % RH Atmospheric Pressure: 1010 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.

7.2.3 Test Setup Diagram



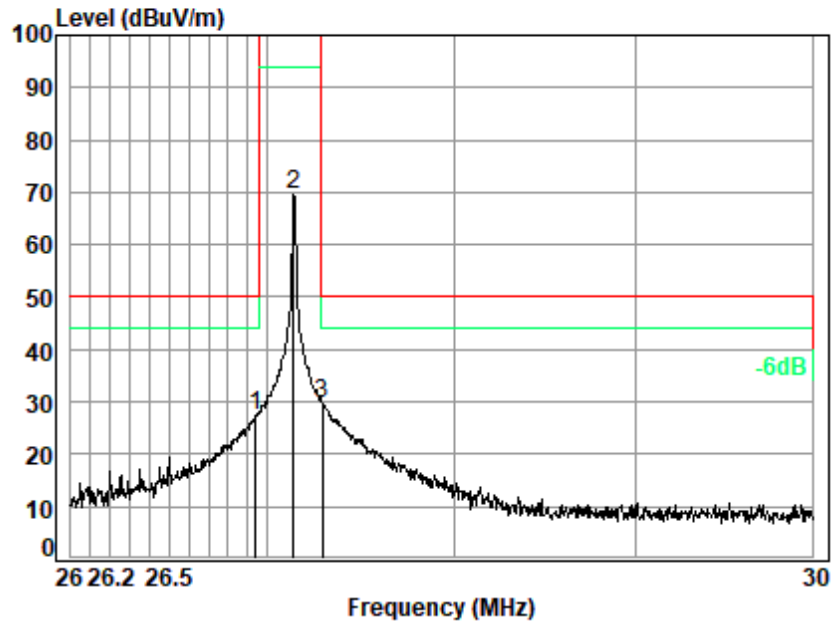
7.2.4 Measurement Procedure and Data

- 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



Test Mode: 00; Polarity: Horizontal

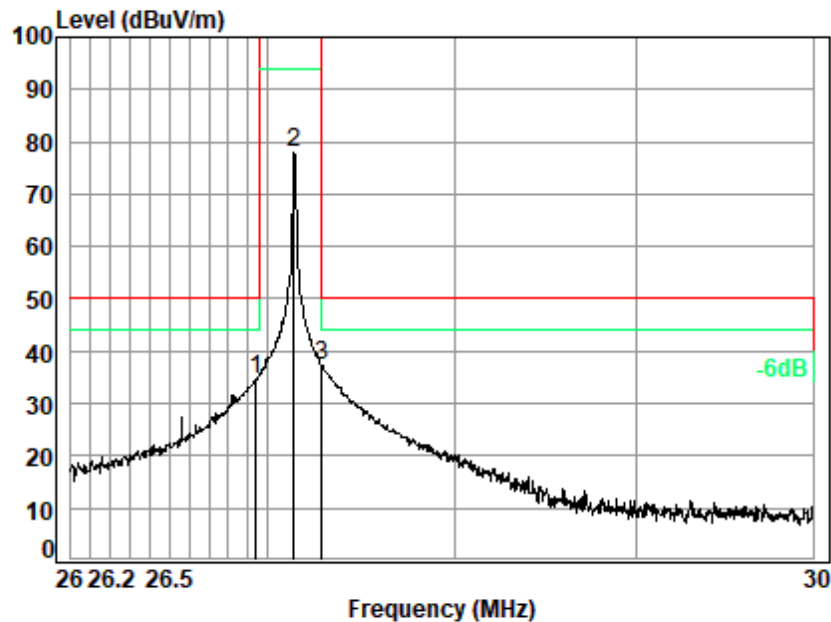


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 21254AT
Test mode: 00

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	26.95	30.47	24.05	0.60	27.75	27.37	50.00	-22.63	Peak
2	27.14	72.64	23.98	0.60	27.75	69.47	100.00	-30.53	Peak
3 p	27.30	32.97	23.92	0.60	27.75	29.74	50.00	-20.26	Peak



Test Mode: 00; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 21254AT
Test mode: 00

		Read	Ant	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	26.95	37.65	24.05	0.60	27.75	34.55	50.00	-15.45 Peak
2	27.14	81.08	23.98	0.60	27.75	77.91	100.00	-22.09 Peak
3 p	27.29	40.37	23.93	0.60	27.75	37.15	50.00	-12.85 Peak

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.



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

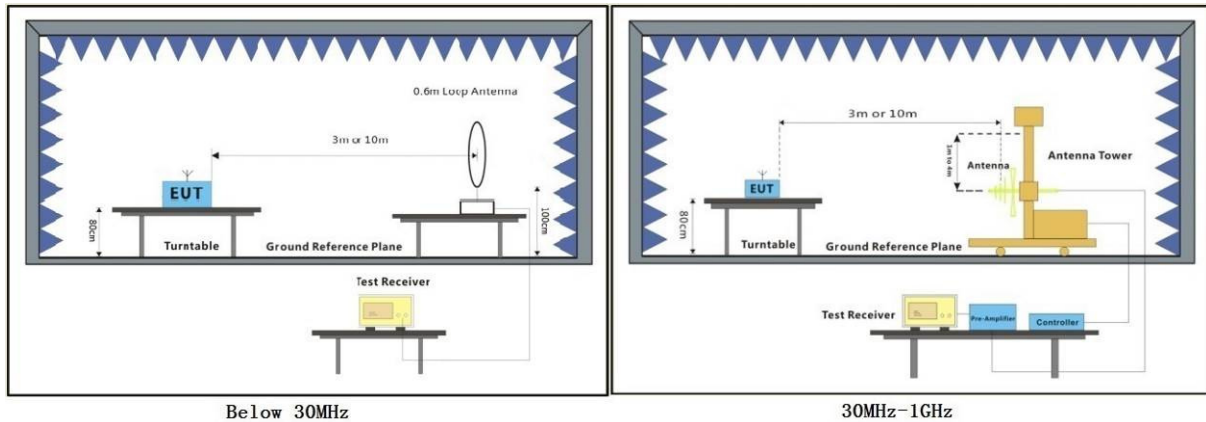
Operating Environment:

Temperature: 25.9 °C Humidity: 74.4 % RH Atmospheric Pressure: 1010 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

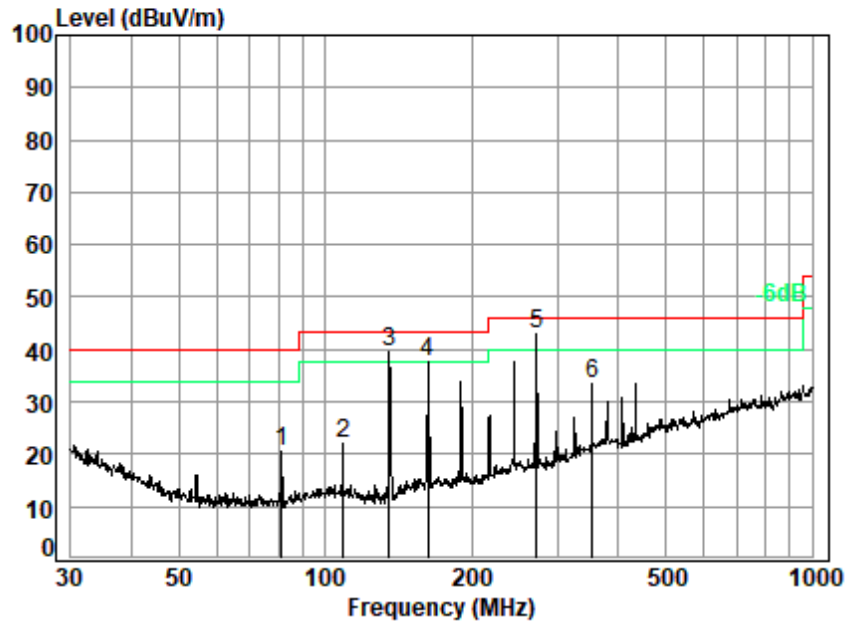


7.3.4 Measurement Procedure and Data

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- 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

Test Mode: 00; Polarity: Horizontal

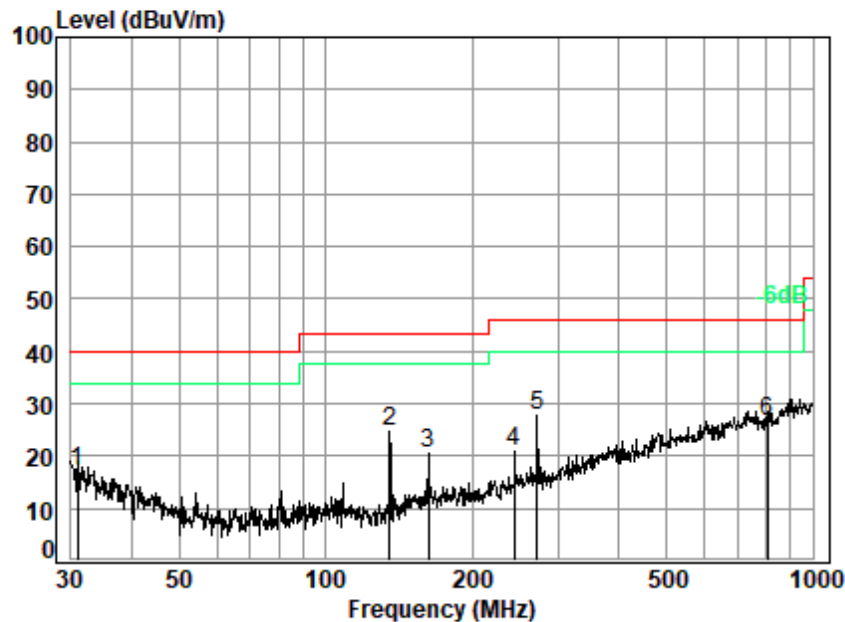


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 21254ET
Test mode: 00

	Read	Ant	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	81.50	35.17	12.05	1.10	27.63	20.69	40.00 -19.31 QP
2	108.65	34.77	13.74	1.23	27.55	22.19	43.50 -21.31 QP
3	135.51	52.51	13.00	1.29	27.41	39.39	43.50 -4.11 QP
4	162.61	48.09	15.45	1.34	27.28	37.60	43.50 -5.90 QP
5 q	271.32	49.47	18.57	1.77	26.94	42.87	46.00 -3.13 QP
6	352.94	37.40	21.21	2.07	27.17	33.51	46.00 -12.49 QP



Test Mode: 00; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 21254ET
Test mode: 00

	Read	Ant	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	30.96	22.03	22.27	0.60	27.73	17.17	40.00	-22.83 QP
2	135.51	37.93	13.00	1.29	27.41	24.81	43.50	-18.69 QP
3	162.61	31.21	15.45	1.34	27.28	20.72	43.50	-22.78 QP
4	244.23	28.18	17.97	1.65	27.01	20.79	46.00	-25.21 QP
5 q	271.32	34.22	18.57	1.77	26.94	27.62	46.00	-18.38 QP
6	807.43	23.31	27.81	3.24	27.69	26.67	46.00	-19.33 QP

Remark:

The disturbance below 30MHz was very low and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed



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8 Test Setup Photo

Refer to test setup Photos for SZCR2105021254ET.

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2105021254ET.

- End of the Report -

