

Report No.: SZEM200600511501

Page: 1 of 20

# TEST REPORT

**Application No.:** SZEM2006005115CR(SGS SZ No.:T52010260069EM)

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: New-Ray Toys Co., Ltd.

Address of Manufacturer: Unit 9-11, 12/F Houston Centre, 63 Mody Road, Tsimshatsui East,

Kowloon, Hong Kong, China

**Equipment Under Test (EUT):** 

EUT Name: Vehicles, Cars, Trucks, Monster Truck, Tanks, Motorcycles, ATV,

Snowmobile, Fire Engine, Bus, Forklift, Construction, Volvo, Tractor

Model No.: SS-88253B, 88003A, 88213, 87943, SS-34143, 87865, 87913A, 88753,

88763, 88773, 88793, 88595, 88525, SS-87073, AS-88525, SS-88243, 87933, SS-88753, 88233, 88643B, SS-88233B, SS-34123, SS-34133, SS-33173, SS-66146A, SS-34153, SS-34183, SS-34173, SS-33153, SS-33123, 89826, SS-88773, 88703, 88633, 88704A, AS-88763, AS-87293, 89393, 89403, 89413, SS-87293, SS-88713, 88643C, 88793B, SS-87943B, SS-33143, 88133, 01955, SS-00645C, 88553, 88815, 88803, 88215A, 88896, SS-88253, 87913, SS-33033, SS-33043, SS-87283, SS-87843A, AS-88853, SS-88763, 87293, SS-87290, 87533, 87543, 87563, 87573, 87893, SS-87933, 88853, SS-88233C, 88473, 85353, 87863, SS-88253A, 88825,

88573, AS-20063, SS-08605 \*

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

actually tested and which were electrically identical.

**FCC ID:** Q4S88253B

Requested Age Grading: 3+
Country of Origin: China

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

**Date of Receipt:** 2020-06-15

**Date of Test:** 2020-06-17 to 2020-06-19

**Date of Issue:** 2020-06-24

Test Result: Pass\*

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

Keny Xu EMC Laboratory Manager

Ceny. Ku



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Report No.: SZEM200600511501

Page: 2 of 20

	Revision Record								
Version	Version Chapter Date Modifier								
01		2020-06-24		Original					

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



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Report No.: SZEM200600511501

Page: 3 of 20

#### 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))	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	47 CFR Part 15, Subpart C 15.227	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.: SS-88253B, 88003A, 88213, 87943, SS-34143, 87865, 87913A, 88753, 88763, 88773, 88793, 88595, 88525, SS-87073, AS-88525, SS-88243, 87933, SS-88753, 88233, 88643B, SS-88233B, SS-34123, SS-34133, SS-33173, SS-66146A, SS-34153, SS-34183, SS-34173, SS-33153, SS-33123, 89826, SS-88773, 88703, 88633, 88704A, AS-88763, AS-87293, 89393, 89403, 89413, SS-87293, SS-88713, 88643C, 88793B, SS-87943B, SS-33143, 88133, 01955, SS-00645C, 88553, 88815, 88803, 88215A, 88896, SS-88253, 87913, SS-33033, SS-33043, SS-87283, SS-87843A, AS-88853, SS-88763, 87293, SS-87290, 87533, 87543, 87563, 87573, 87893, SS-87933, 88853, SS-88233C, 88473, 85353, 87863, SS-88253A, 88825, 88573, AS-20063, SS-08605

Only the model SS-88253B was tested. Since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on shell color and shape.



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Report No.: SZEM200600511501

Page: 4 of 20

## **Contents**

			raye
1	CO/	/ER PAGE	1
2	TEC	T SUMMARY	2
_			
3	CON	NTENTS	4
4	GEN	NERAL INFORMATION	5
	4.1	DETAILS OF E.U.T.	
	4.1	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	6
5	EQl	JIPMENT LIST	7
6	DAG	DIO SPECTRUM TECHNICAL REQUIREMENT	
ь	HAL		
	6.1	ANTENNA REQUIREMENT	
	6.1. 6.1.		
7	RAD	DIO SPECTRUM MATTER TEST RESULTS	10
	7.1	20dB Bandwidth	10
	7.1.		
	7.1.2		
	7.1.3 7.2	3 Measurement Procedure and Data  FIELD STRENGTH OF THE FUNDAMENTAL SIGNAL (15.227(A))	
	7.2.		
	7.2.	,	
	7.2.		
	7.3	RADIATED EMISSIONS	16
	7.3.	1	
	7.3.2		
	7.3.		
8	PHC	DTOGRAPHS	20
	8.1	TEST SETUP	
	8.2	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	20



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Report No.: SZEM200600511501

Page: 5 of 20

### **General Information**

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

Power Supply:	9V DC(9V x 1 "6F22" Size Batteries)
Operation Frequency:	27.145MHz
Sample Type:	Portable production
Antenna Type:	Integral

### 4.2 Description of Support Units

The EUT has been tested as an independent unit.

### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Occupied Bandwidth	± 3%
2	RF Radiated power	± 4.5dB (below 1GHz)
3	Radiated Spurious emission test	± 4.5dB (Below 1GHz)
4	Temperature test	± 1 ℃
5	Humidity test	± 3%
6	Supply voltages	± 1.5%
7	Time	± 3%



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Report No.: SZEM200600511501

Page: 6 of 20

### 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

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. 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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Report No.: SZEM200600511501

Page: 7 of 20

#### **Equipment List** 5

20dB Bandwidth	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	2020-03-24	2021-03-23				
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23				
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10				
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A				
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23				
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23				
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27				

Field Strength of the Fundamental Signal (15.227(a))									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM025-01	2019-07-11	2020-07-10				
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15				
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23				
Pre-amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31				
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21				

Radiated Emissions									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	Coaxial Cable SGS		SEM025-01	2019-07-11	2020-07-10				
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15				
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23				
Pre-amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31				
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21				



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Report No.: SZEM200600511501

Page: 8 of 20

General used equipment							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25		
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25		
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25		
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06		



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Report No.: SZEM200600511501

Page: 9 of 20

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

### 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 Appendix(external photos).



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Report No.: SZEM200600511501

Page: 10 of 20

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

### 20dB Bandwidth

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

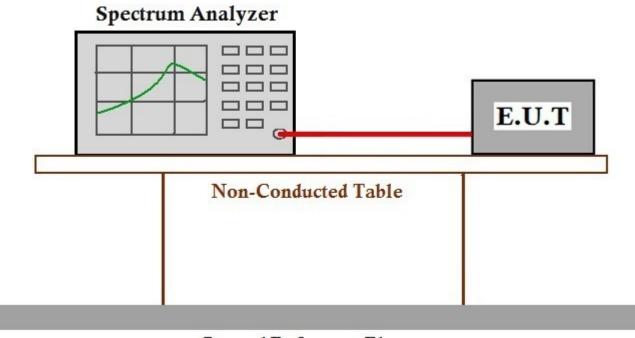
### 7.1.1 E.U.T. Operation

Operating Environment:

Atmospheric Pressure: 1005 mbar Temperature: 29.3 °C Humidity: 41 % RH

Test mode a:TX mode Keep the EUT in transmitting with modulation mode.

### 7.1.2 Test Setup Diagram



### Ground Reference Plane

### 7.1.3 Measurement Procedure and Data



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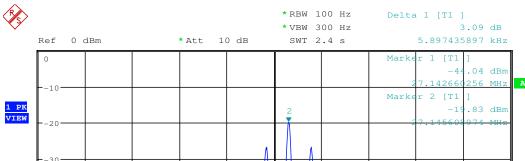
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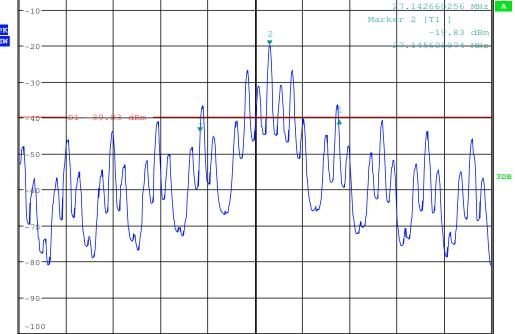


Report No.: SZEM200600511501

Page: 11 of 20

#### Mode:a





Center 27.145 MHz 2 kHz/ Span 20 kHz



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Report No.: SZEM200600511501

Page: 12 of 20

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

47 CFR Part 15, Subpart C 15.227(a) Test Requirement 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.

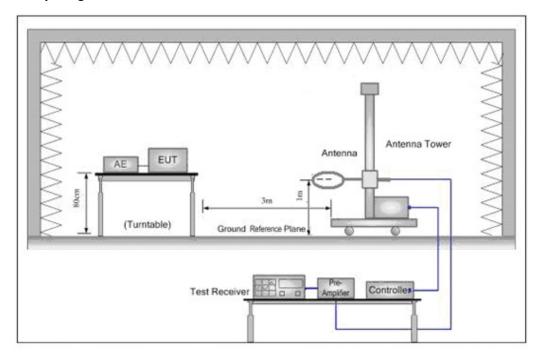
### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.1 °C Humidity: 57.5 % RH Atmospheric Pressure: 1005 mbar

Test mode a:TX mode Keep the EUT in transmitting with modulation mode.

### 7.2.2 Test Setup Diagram





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Report No.: SZEM200600511501

Page: 13 of 20

#### 7.2.3 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



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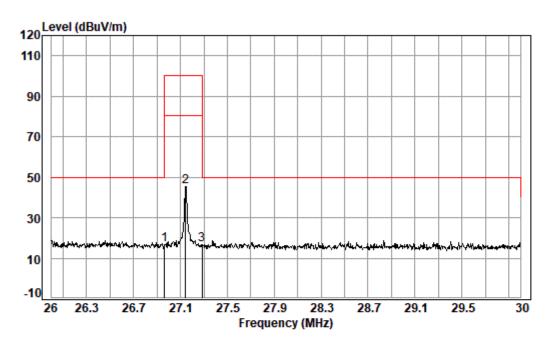
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Report No.: SZEM200600511501

Page: 14 of 20

Mode:a; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 05115ET

Test mode: TX

	Freq			Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 3 pp	27.14	0.60	23.22	27.74 27.74 27.74	49.13	45.21	100.00	-54.79	peak



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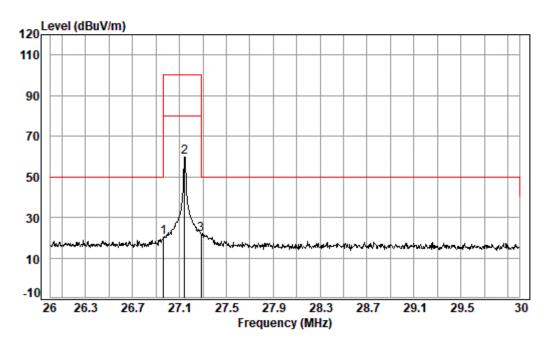
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Report No.: SZEM200600511501

Page: 15 of 20

Mode:a; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 05115ET

Test mode: TX

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	26.96	0.60	23.31	27.74	24.05	20.22	50.00	-29.78	peak
2	27.14	0.60	23.22	27.74	63.70	59.78	100.00	-40.22	peak
3 pp	27.28	0.60	23.15	27.74	25.51	21.52	50.00	-28.48	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.



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Report No.: SZEM200600511501

Page: 16 of 20

### 7.3 Radiated Emissions

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

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

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		
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 the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.





Report No.: SZEM200600511501

Page: 17 of 20

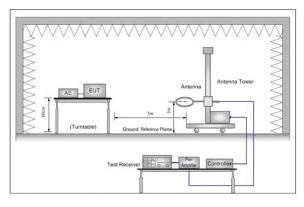
### 7.3.1 E.U.T. Operation

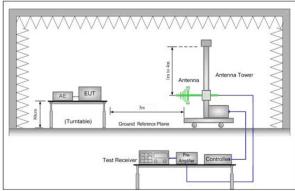
Operating Environment:

25.1 °C Temperature: Humidity: 57.5 % RH Atmospheric Pressure: 1005 mbar

Test mode a:TX mode Keep the EUT in transmitting with modulation mode.

#### 7.3.2 Test Setup Diagram





#### 7.3.3 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



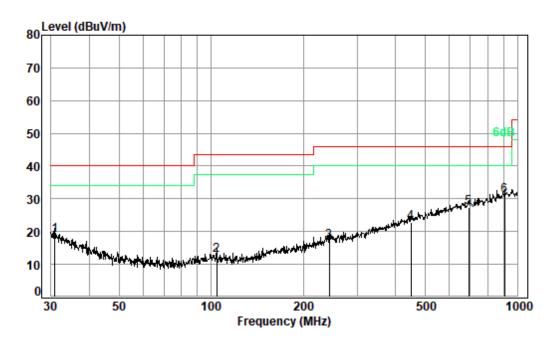
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Report No.: SZEM200600511501

Page: 18 of 20

Mode:a; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 05115CR

Test mode: a

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	20.05	0.00	22.04	27 72	24 04	10.00	40.00	24 44	OD
1	30.85	0.60	22.01	27.73	24.01	18.89	40.00	-21.11	٩ŷ
2	104.17	1.21	13.80	27.61	25.43	12.83	43.50	-30.67	QP
3	243.38	1.64	18.85	27.03	23.65	17.11	46.00	-28.89	QP
4	449.56	2.41	23.55	27.64	24.41	22.73	46.00	-23.27	QP
5	694.42	2.89	27.83	27.94	24.63	27.41	46.00	-18.59	QP
6 pp	909.67	3.61	29.85	27.25	24.70	30.91	46.00	-15.09	OP



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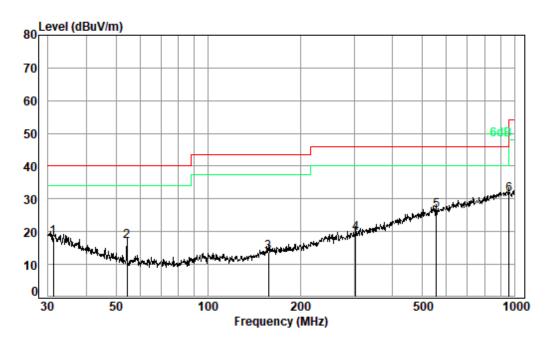
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Report No.: SZEM200600511501

Page: 19 of 20

Mode:a; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 05115CR

Test mode: a

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.18	0.60	21.83	27.73	23.52	18.22	40.00	-21.78	QP
2	54.26	0.80	13.75	27.69	30.05	16.91	40.00	-23.09	QP
3	157.56	1.33	15.29	27.33	24.40	13.69	43.50	-29.81	QP
4	303.54	1.91	19.71	26.91	24.74	19.45	46.00	-26.55	QP
5	556.77	2.66	25.78	28.03	25.93	26.34	46.00	-19.66	QP
6 pp	958.79	3.66	30.10	27.06	24.71	31.41	46.00	-14.59	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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Report No.: SZEM200600511501

Page: 20 of 20

#### 8 **Photographs**

### 8.1 Test Setup

Please refer to setup photo.

### 8.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.

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