



Class II Permissive Change FCC TEST REPORT

1:24 RC CAR(storm crusher) **Product**

Trade mark N/A

KD0785(5F62DB2) Model/Type reference

Serial Number N/A

: EED32I001526 **Report Number**

XRZKD0785 FCC ID Date of Issue : May 23, 2016

Test Standards 47 CFR Part 15 Subpart C (2015)

Test result PASS

Prepared for:

KIDSROCK LTD

Unit 08A, 25/F Gammon House, 12 Harcout Road, Admiralty, Hong Kong, China.

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

> TEL: +86-755-3368 3668 FAX: +86-755-3368 3385



Reviewed by:

Date:

Sheek Luo

Lab supervisor

May 23, 2016

Check No.: 2384390908













2

Report No.: EED32I001526









Version No. Date Description					
00	May 23, 2016	Original			
	200				





































































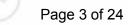






Report No. : EED32I001526 **3 Test Summary**





Test Item Test Requirement Test method Result Field Strength of the Fundamental Signal 47 CFR Part 15 Subpart C Section 15.249 (a) 47 CFR Part 15 Subpart C Section 15.249 (a)/15.209 ANSI C63.10-2013 PASS PASS

Remark:

The tested sample(s) and the sample information are provided by the client.

Model No.: KD0785(5F62DB2))

This test report (Ref. No.: EED32I001526) is only valid with the original test report (Ref. No.: EED32H000389-1).

Review this report and original report, this report just add the storage on the remote-control. According to the declaration from the applicant, the models in this report and models in original report

were identical, only added the storage on the remote-control.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report Field Strength of the Fundamental Signal and Spurious Emissions were fully retested and shown the data in this report, other tests please refer to original report EED32H000389-1.







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5 General Information

5.1 Client Information

Applicant:	KIDSROCK LTD
Address of Applicant:	Unit 08A, 25/F Gammon House, 12 Harcout Road, Admiralty, Hong Kong, China.
Manufacturer:	KIDSROCK LTD
Address of Manufacturer:	Unit 08A, 25/F Gammon House, 12 Harcout Road, Admiralty, Hong Kong, China.
Factory:	DONGGUAN DESHEN METAL & PLASTIC PRODUCTS CO., LTD
Address of Factory:	Xiasha, No.3 Industrial Zone, Shipai Town, Dongguan City, Dongguan Province, China

5.2 General Description of EUT

Product Name:	1:24 RC CAR(storm crusher)		
Mode No.(EUT):	KD0785(5F62DB2)		
Trade Mark:	N/A		70
EUT Supports Radios application:	2406MHz~2480MHz	(2,1)	(cf
Power Supply:	6V === (Supply with 4xAA 1.5V Alkaline	e Batteries)	

5.3 Product Specification subjective to this standard

Frequency Range:	2406MHz~2480MHz		(2)	
Modulation Type:	GFSK			
Sample Type:	Portable production			
Test Power Grade:	N/A (manufacturer declare)	15		10
Test Software of EUT:	N/A (manufacturer declare)	(35)		(6)
Antenna Type:	Integral			6
Antenna Gain:	2.54dBi			
Test voltage:	DC 6V		215	
Sample Received Date:	May 19, 2016		(47)	
Sample tested Date:	May 19, 2016 to May 22, 2016		(0)	

5.4 Test Environment and Mode

Operating Environment			12
Temperature:	24°C	(0,)	(0)
Humidity:	52% RH		
Atmospheric Pressure:	1010 mbar		
Test mode:			2/
Transmitting mode:	Keep the EUT transmitted the specific channel(s)	ne continuous modulation test	signal at the

5.5 Description of Support Units

The EUT has been tested independently.





5.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 3368 3668 Fax:+86 (0) 755 3368 3385

No tests were sub-contracted.

5.7 Test Facility

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

CNAS-Lab Code: L1910

Centre Testing International Group Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories..

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A2LA-Lab Cert. No. 3061.01

Centre Testing International Group Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 886427

Centre Testing International (Shenzhen) Corporation. 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. Registration 886427.

IC-Registration No.: 7408A-2

The 3m Alternate Test Site of Centre Testing International (Shenzhen) Corporation. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408A-2.

IC-Registration No.: 7408B-1

The 10m Alternate Test Site of Centre Testing International (Shenzhen) Corporation., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408B-1.

NEMKO-Aut. No.: ELA503

Centre Testing International Group Co., Ltd. has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10.

VCCI

The Radiation 3 &10 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-4096.

Main Ports Conducted Interference Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-4563.

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Telecommunication Ports Conducted Disturbance Measurement of

Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-2146.

The Radiation 3 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-758

5.8 Deviation from Standards

None.

5.9 Abnormalities from Standard Conditions

None

Hotline: 400-6788-333

5.10 Other Information Requested by the CustomerNone.

5.11 Measurement Uncertainty (95% confidence levels, k=2)

Item	Measurement Uncertainty		
Radio Frequency	7.9 x 10 ⁻⁸		
DE nover conducted	0.31dB (30MHz-1GHz)		
RF power, conducted	0.57dB (1GHz-18GHz)		
Padiated Spurious emission test	4.5dB (30MHz-1GHz)		
Radiated Spurious emission test	4.8dB (1GHz-12.75GHz)		
Conduction emission	3.6dB (9kHz to 150kHz)		
Conduction emission	3.2dB (150kHz to 30MHz)		
Temperature test	0.64°C		
Humidity test	2.8%		
DC power voltages	0.025%		
	Radio Frequency RF power, conducted Radiated Spurious emission test Conduction emission Temperature test Humidity test		

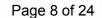


E-mail: info@cti-cert.com

www.cti-cert.com



Report No.: EED32I001526 **6 Equipment List**

















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7 Test results and Measurement Data

7.1 Radiated Spurious Emission

Test Requirement: 47 CFR Part 15C Section 15.249 and 15.209

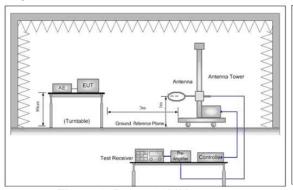
Test Method: ANSI C63.10

Test Site: Measurement Distance: 3m (Semi-Anechoic Chamber)

	Frequency	Detector	RBW	VBW	Remark
ė	0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak
į	0.009MHz-0.090MHz	Average	10kHz	30KHz	Average
ú	0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak
	0.110MHz-0.490MHz	10MHz-0.490MHz Peak		30KHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30KHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
	Above IGHZ	Peak	1MHz	10Hz	Average

Test Setup:

Receiver Setup:



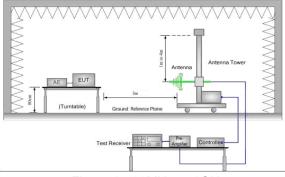


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

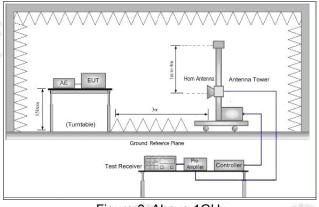


Figure 3. Above 1GHz

Below 1GHz test procedure as below: Test Procedure: The FLIT was placed on the top of a rota

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. 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 rota table 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

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Limit: (Spurious Emissions)

Limit:

signal)

(Field strength of the fundamental

Report No.: EED32I001526





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.

Above 1GHz test procedure as below:

Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).

Test the EUT in the lowest channel ,middle channel, the Highest channel The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.

Repeat above procedures until all frequencies measured was complete.

·		1 !!4		N / 1
Frequency	Field strength	Limit	Remark	Measurement
requeries	(microvolt/meter)	(dBµV/m)	rtemant	distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	- (87)	300
0.490MHz-1.705MHz	24000/F(kHz)	/: -	- (%)	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Frequency	Limit (dBµV/m @3m)	Remark
2400MHz-2483.5MHz	94.0	Average Value
	114.0	Peak Value

Test Mode: Transmitting mode

Insti	Mode: ruments Used: Results:	Refer to s Pass	etails		







Measurement Data

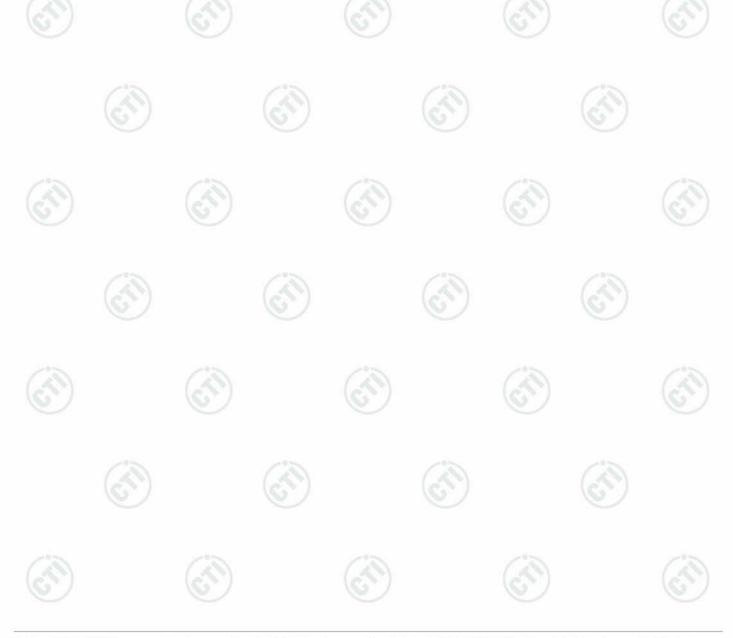
Field Strength Of The Fundamental Signal

Peak value:

T Cart Value.					1.07.7				
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
2406.00	32.57	3.17	34.39	79.44	80.79	114	-33.21	Pass	H
2406.00	32.57	3.17	34.39	77.68	79.03	114	-34.97	Pass	V
2443.00	32.64	3.19	34.40	77.48	78.91	114	-35.09	Pass	H
2443.00	32.64	3.19	34.40	82.65	84.08	114	-29.92	Pass	V
2480.00	32.71	3.22	34.41	74.37	75.89	114	-38.11	Pass	Н
2480.00	32.71	3.22	34.41	80.9	82.42	114	-31.58	Pass	V

Remark: As shown in this section, for field strength of the fundamental signal measurements, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above. So, only the peak measurements were shown in the report.

For fundamental frequency, RBW 3MHz VBW 3MHz peak detector is for PK value



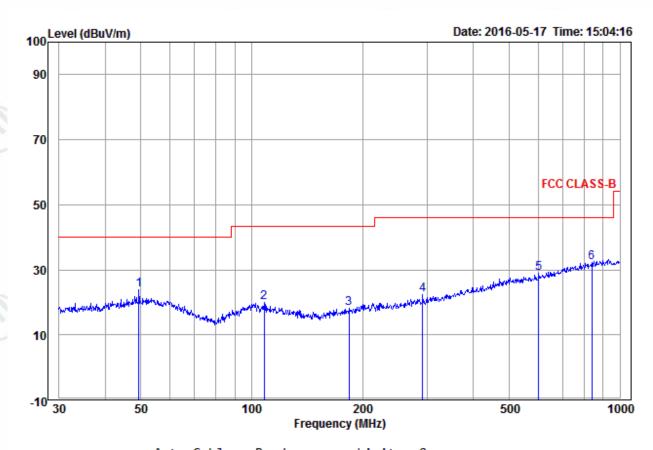


Spurious Emissions





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		Ant	Cable	Read		Limit	0ver		
	Freq	Factor	Loss	Level	Level	Line	Limit	Pol/Phase	Remark
_	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
		,							
1	49.359	15.05	1.35	7.45	23.85	40.00	-16.15	Horizontal	
2	108.267	12.51	1.57	5.78	19.86	43.50	-23.64	Horizontal	
3	183.844	11.04	2.03	5.14	18.21	43.50	-25.29	Horizontal	
4	291.036	13.32	2.38	6.62	22.32	46.00	-23.68	Horizontal	
5	601.427	18.82	3.51	6.54	28.87	46.00	-17.13	Horizontal	
6 рр	839.182	21.84	4.11	6.18	32.13	46.00	-13.87	${\it Horizontal}$	























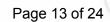


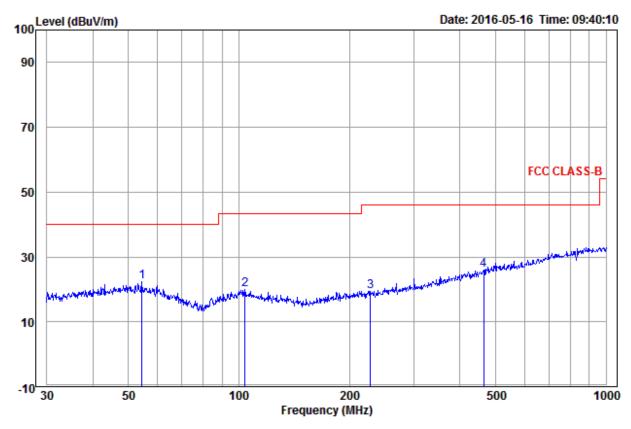












	Freq					Line		Pol/Phase	Remark	
-	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1 pp	54.452	14.49	1.41	6.36	22.26	40.00	-17.74	Vertical		
2	103.806	12.88	1.57	5.48	19.93	43.50	-23.57	Vertical		
3	228.490	12.08	2.29	5.09	19.46	46.00	-26.54	Vertical		
4	463.970	17.48	3.03	5.51	26.02	46.00	-19.98	Vertical		







































Above 1GHz



Test mode: Transmitting			Test	Test channel: Lowest(2406MHz)					
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1276.818	30.41	2.60	34.88	39.63	37.76	74	-36.24	Pass	Н
1597.401	31.05	2.92	34.59	39.46	38.84	74	-35.16	Pass	Н
4812.000	34.70	5.11	34.35	34.90	40.36	74	-33.64	Pass	H
6032.401	35.92	7.40	34.32	31.99	40.99	74	-33.01	Pass	H
7218.000	36.42	6.67	34.90	34.10	42.29	74	-31.71	Pass	Н
9624.000	37.90	7.72	35.07	31.55	42.10	74	-31.90	Pass	Н
1132.844	30.06	2.43	35.04	38.38	35.83	74	-38.17	Pass	V
1777.646	31.36	3.07	34.45	37.03	37.01	74	-36.99	Pass	V
4812.000	34.70	5.11	34.35	34.78	40.24	74	-33.76	Pass	V
5689.36	35.67	6.73	34.30	30.30	38.40	74	-35.60	Pass	V
7218.000	36.42	6.67	34.90	29.77	37.96	74	-36.04	Pass	V
9624.000	37.90	7.72	35.07	25.35	35.90	74	-38.10	Pass	V

Test mode:	Test o	hannel:	Middle(2443MHz)						
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1135.731	30.07	2.44	35.03	41.40	38.88	74	-35.12	Pass	Н
1597.401	31.05	2.92	34.59	39.54	38.92	74	-35.08	Pass	Н
4886.000	34.86	5.08	34.33	33.03	38.64	74	-35.36	Pass	H
6544.350	36.18	6.89	34.64	29.96	38.39	74	-35.61	Pass	H
7329.000	36.43	6.78	34.90	30.28	38.59	74	-35.41	Pass	Н
9772.000	38.06	7.59	35.04	27.58	38.19	74	-35.81	Pass	Н
1129.964	30.05	2.43	35.04	38.53	35.97	74	-38.03	Pass	V
1378.143	30.63	2.71	34.78	37.35	35.91	74	-38.09	Pass	V
4886.000	34.86	5.08	34.33	32.89	38.50	74	-35.50	Pass	V
5762.235	35.72	6.90	34.30	30.69	39.01	74	-34.99	Pass	V
7329.000	36.43	6.78	34.90	29.38	37.69	74	-36.31	Pass	V
9772.000	38.06	7.59	35.04	26.90	37.51	74	-36.49	Pass	V

























Test mode: Tr		smitting	Test	Test channel: Highest(2480MHz)						
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis	
1257.465	30.36	2.58	34.90	33.67	31.71	74	-42.29	Pass	Н	
1724.166	31.27	3.02	34.49	33.61	33.41	74	-40.59	Pass	Н	
4960.000	35.02	5.05	34.31	36.05	41.81	74	-32.19	Pass	H	
6299.178	36.06	7.13	34.49	30.26	38.96	74	-35.04	Pass	Н	
7440.000	36.45	6.88	34.90	28.78	37.21	74	-36.79	Pass	Н	
9920.000	38.22	7.47	35.02	25.46	36.13	74	-37.87	Pass	Н	
1192.011	30.21	2.51	34.97	38.41	36.16	74	-37.84	Pass	V	
1759.638	31.33	3.05	34.47	38.47	38.38	74	-35.62	Pass	V	
4958.678	35.01	5.05	34.31	33.76	39.51	74	-34.49	Pass	V	
6047.776	35.93	7.38	34.33	30.38	39.36	74	-34.64	Pass	V	
7440.000	36.45	6.88	34.90	30.73	39.16	74	-34.84	Pass	V	
9920.000	38.22	7.47	35.02	29.02	39.69	74	-34.31	Pass	V	

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level =Receiver Reading Correct Factor
 - Correct Factor = Preamplifier Factor Antenna Factor Cable Factor
- 2) Scan from 9kHz to 25GHz,The disturbance above 13GHz and 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. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

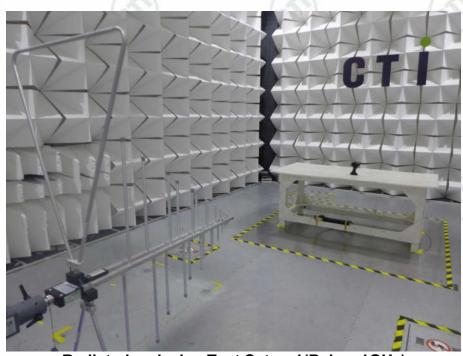




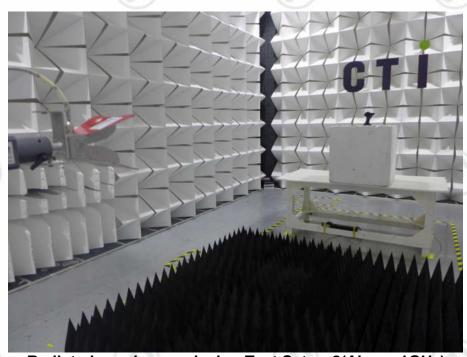
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APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

Test Model No.: KD0785(5F62DB2)



Radiated emission Test Setup-1(Below 1GHz)



Radiated spurious emission Test Setup-2(Above 1GHz)













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APPENDIX 2 PHOTOGRAPHS OF EUT

Test mode No.: KD0785(5F62DB2)



View of Product-1



















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View of Product-3



View of Product-4

























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View of Product-5



View of Product-6



















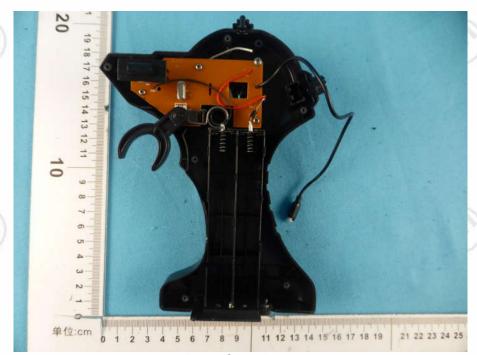


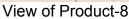




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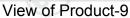


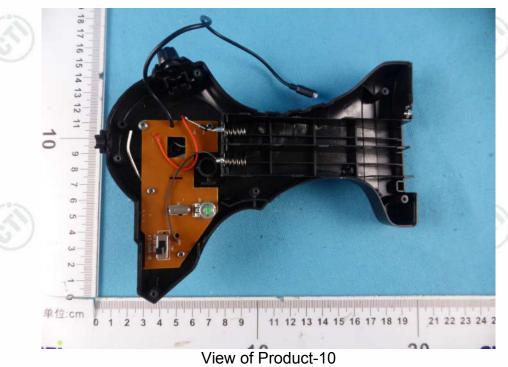




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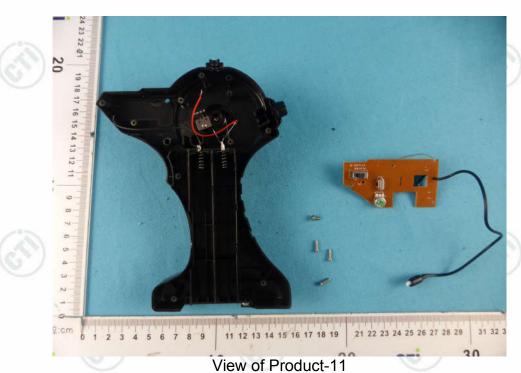




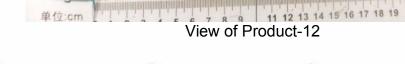




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单位:cm





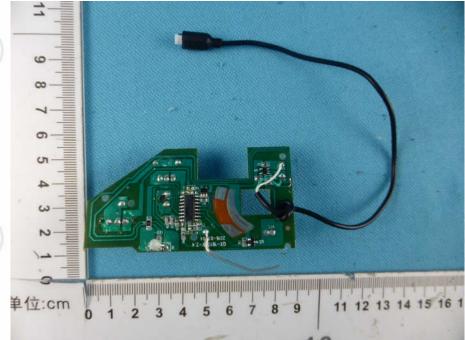




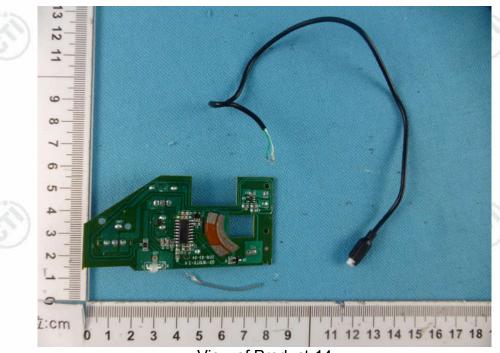




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View of Product-14













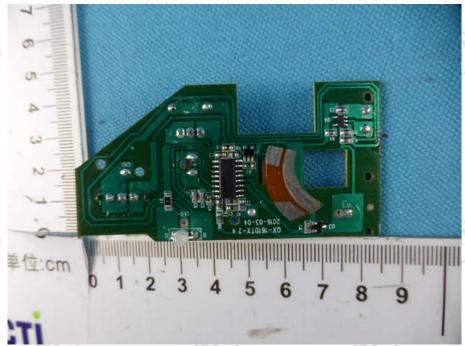




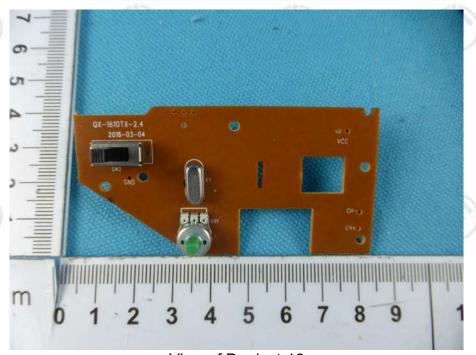








View of Product-15



View of Product-16

*** End of Report ***

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