

TEST REPORT

FCC ID: 2AN7S-D1S

Product: Monster Pub smart vibrator

Model No.: D1S

Additional Model No.: G1S, W1S

Trade Mark: SISTALK

Report No.: TCT171106E020

Issued Date: Nov. 09, 2017

Issued for:

SISTALK Technology (Beijing) Co., Ltd #509, A Building, Yuanyangxinganxian, Xiaguangli No. 66, Maizidian Street, Chaoyang District, Beijing,100027, China

Issued By:

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TABLE OF CONTENTS

1. J	est Certification				3
2. T	est Result Summary		(0)		4
	UT Description				
	Genera Information				
	.1. Test environment and mode				
4.	.2. Description of Support Units				6
5. F	acilities and Accreditations		(6)		7
5.	.1. Facilities				7
	.2. Location				
5.	.3. Measurement Uncertainty	(0)		(0)	7
6. T	est Results and Measurement Data				8
6.	.1. Antenna requirement				8
6.	.2. Conducted Emission				9
	.3. Conducted Output Power				
6.	.4. Emission Bandwidth	(ci)		()	16
	.5. Power Spectral Density				
6.	.6. Test Specification				19
	.7. Conducted Band Edge and Spurious E				
6.	.8. Radiated Spurious Emission Measuren	nent			26
App	endix A: Photographs of Test Setur				
App	endix B: Photographs of EUT				



1. Test Certification

Report No.: TCT171106E020

Product:	Monster Pub smart vibrator				
Model No.:	D1S				
Additional Model No.:	G1S, W1S				
Trade Mark:	SISTALK				
Applicant:	SISTALK Technology (Beijing) Co., Ltd				
Address:	#509, A Building, Yuanyangxinganxian, Xiaguangli No. 66, Maizidian Street, Chaoyang District, Beijing,100027, China				
Manufacturer:	SISTALK Technology (Beijing) Co., Ltd				
Address:	#509, A Building, Yuanyangxinganxian, Xiaguangli No. 66, Maizidian Street, Chaoyang District, Beijing,100027, China				
Date of Test:	Nov. 06, 2017 – Nov. 08, 2017				
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247				

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

J'm Wang

Tomsin

Date:

Nov. 08, 2017

Jin Wang

Reviewed By:

Date:

Nov. 09, 2017

Approved By:

Date:

Nov. 09, 2017



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	1§5.247(d) §2.1051, §2.1057	PASS
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.





3. EUT Description

Product:	Monster Pub smart vibrator
Model No.:	D1S
Additional Model No.:	G1S, W1S
Trade Mark:	SISTALK
BT Version:	V4.0
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Antenna Type:	Internal Antenna
Antenna Gain:	0dBi
Power Supply:	Rechargeable built-in lithium battery DC 3.7V
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.

Operation Frequency each of channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
	(0)		(0)		(0)		(C)
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Remark: Channel 0, 19 & 39 have been tested.							



4. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) with Fully-charged battery.

The sample was placed (0.1m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	EP-TA20EWE		1	

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

Page 6 of 41



5. Facilities and Accreditations

5.1. Facilities

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

• FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District,

Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%

Report No.: TCT171106E020



6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

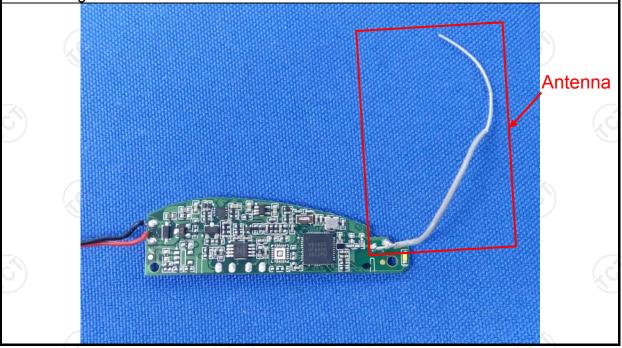
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The Bluetooth antenna is an internal antenna which permanently attached, and the best case gain of the antenna is 0dBi.





6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207	Ko		
Test Method:	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz		(5)		
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto		
Limits:	Frequency range (MHz) Limit (dBuV) 0.15-0.5 66 to 56* 56 to 56* 0.5-5 56 44 5-30 60 56				
Test Setup:	Test table/Insulation plan Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m	EMI Receiver	lter — AC power		
Test Mode:	Charging + Transmitting Mode				
Test Procedure:	 The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 				
Test Result:	PASS				



6.2.2. Test Instruments

Report No.: TCT171106E020

Conducted Emission Shielding Room Test Site (843)								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Test Receiver	R&S	ESPI	101401	Jun. 12, 2018				
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 27, 2018				
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 27, 2018				
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A				

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

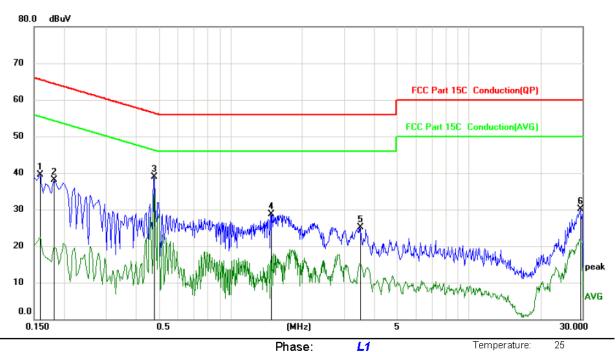




6.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Limit: FCC Part 15C Conduction(QP)

Power:

Report No.: TCT171106E020

Humidity: 55 %

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment	
1	0.1590	27.96	11.47	39.43	65.52	-26.09	peak		
2	0.1814	26.73	11.46	38.19	64.42	-26.23	peak		
3 *	0.4785	27.66	11.31	38.97	56.37	-17.40	peak		
4	1.4774	17.35	11.43	28.78	56.00	-27.22	peak		
5	3.4935	14.01	11.15	25.16	56.00	-30.84	peak		
6	29.4675	19.41	10.61	30.02	60.00	-29.98	peak		

Note:

Site

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

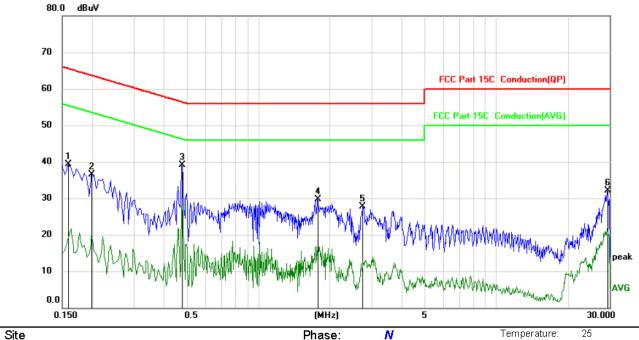
Q.P. =Quasi-Peak

AVG =average

^{*} is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz



Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Limit: FCC Part 15C Conduction(QP)

Phase:	IV
Dower:	

Humidity: 5

55 %

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBu∀	dB	dBu∀	dBuV	dB	Detector	Comment	
1	0.1590	27.82	11.47	39.29	65.52	-26.23	peak		
2	0.1995	25.11	11.45	36.56	63.63	-27.07	peak		
3 *	0.4784	27.82	11.31	39.13	56.37	-17.24	peak		
4	1.7788	18.17	11.58	29.75	56.00	-26.25	peak		
5	2.7374	16.24	11.42	27.66	56.00	-28.34	peak		
6	29.2695	21.45	10.62	32.07	60.00	-27.93	peak		

Note1:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak AVG =average

^{*} is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.



6.3. Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074
Limit:	30dBm
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level.
Test Result:	PASS

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Page 13 of 41



6.3.3. Test Data

BT LE mode					
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result		
Lowest	-1.58	30.00	PASS		
Middle	0.30	30.00	PASS		
Highest	0.05	30.00	PASS		

Test plots as follows:





BT LE mode

Lowest channel



Middle channel



Highest channel





6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074
Limit:	>500kHz
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
Test Result:	PASS

6.4.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018			
RF cable (9kHz-26.5GHz)	б тст	RE-06	N/A	Sep. 27, 2018			
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.4.3. Test data

Toot shannel	6dB Emission Bandwidth (kHz)				
Test channel	BLE mode	Limit	Result		
Lowest	706	>500			
Middle	706	>500	PASS		
Highest	709	>500			

Test plo	ots as follow	rs:			



Lowest channel



Middle channel



Highest channel





6.5. Power Spectral Density

6.6. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)			
Test Method:	KDB558074			
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.			
Test Setup:	Spectrum Analyzer EUT			
Test Mode:	Refer to item 4.1			
Test Procedure:	 The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. 			
Test Result:	PASS			

6.6.1. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018			
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018			
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.6.2. Test data

Report No.: TCT171106E020

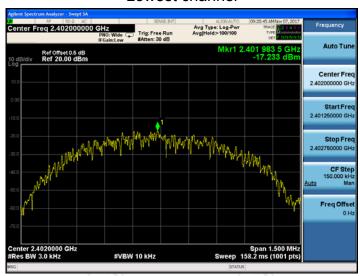
Toot channal	Power Spectral Density (dBm/3kHz)				
Test channel	BLE mode	Limit	Result		
Lowest	-17.23	8	80		
Middle	-14.97	8	PASS		
Highest	-15.31	8	(3)		

Test plots as follows:

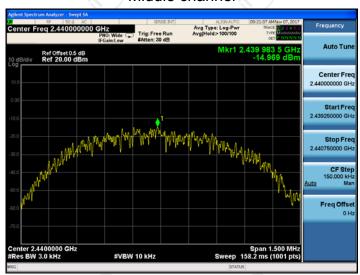




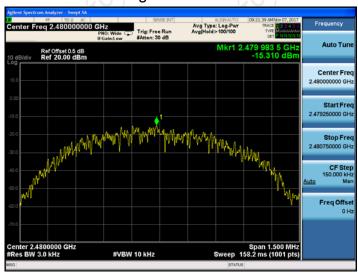
Lowest channel



Middle channel



Highest channel





6.7. Conducted Band Edge and Spurious Emission Measurement

6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	Spectrum Andrews EUT
Test Mode:	Spectrum Analyzer Refer to item 4.1
rest wode.	The RF output of EUT was connected to the spectrum
Test Procedure:	 analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS



6.7.2. Test Instruments

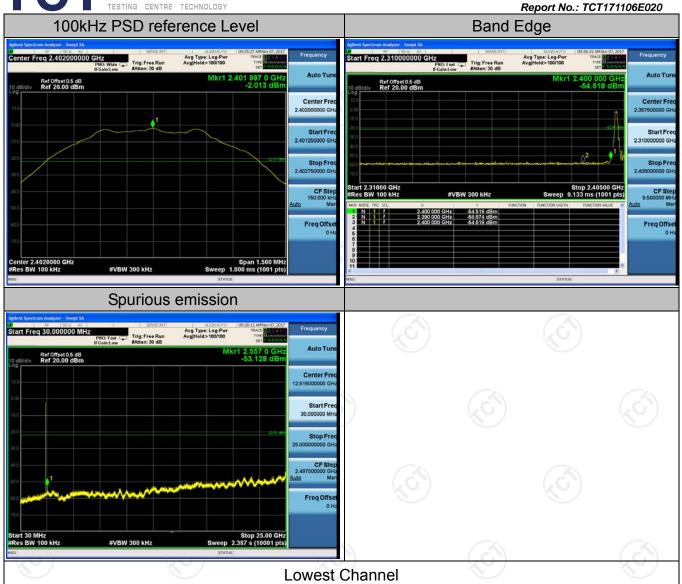
RF Test Room												
Equipment	Manufacturer	Model	Serial Number	Calibration Due								
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018								
RF cable (9kHz-26.5GHz)	ТСТ	RE-06	N/A	Sep. 27, 2018								
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018								

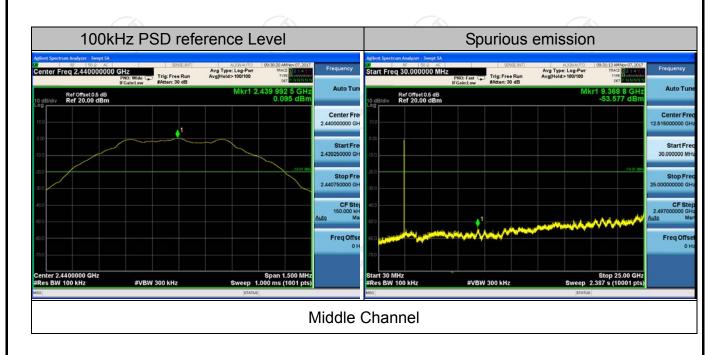
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.7.3. Test Data



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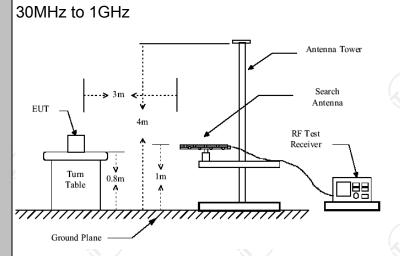
CT通测检测
TESTING CENTRE TECHNOLOGY Report No.: TCT171106E020 100kHz PSD reference Level Band Edge Avg Type: Log-Pwr Avg|Hold>100/100 Start Freq 2.477000000 GHz Avg Type: Log-Pwr Avg|Hold>100/100 Trig: Free Run Ref Offset 0.5 dB Ref 20.00 dBm Ref Offset 0.5 dB Ref 20.00 dBm Center Fre Center Fre Center 2.4800000 GHz #Res BW 100 kHz Spurious emission Avg Type: Log-Pwr Avg[Hold>100/100 Start Freq 30.000000 MHz r1 9.368 8 GH -53.616 dB Ref Offset 0.5 dB Ref 20.00 dBm Start Fre 30.000000 MH CF Ster **Highest Channel** Page 25 of 41



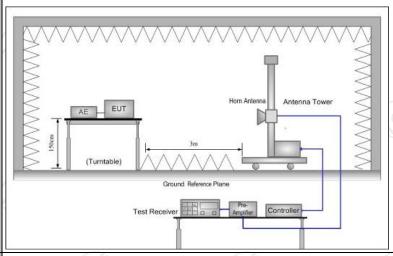
6.8. Radiated Spurious Emission Measurement

6.8.1. Test Specification

Test Requirement:	FCC Part15	C Sectio	n 15.209			(6					
Test Method:	ANSI C63.10: 2013										
Frequency Range:	9 kHz to 25 GHz										
Measurement Distance:	3 m										
Antenna Polarization:	Horizontal & Vertical										
Operation mode:	Refer to item		Ć								
	Frequency 9kHz- 150kHz	Detector Quasi-pea	ak 200Hz	VBW 1kHz	Quas	Remark si-peak Value					
Receiver Setup:	150kHz- 30MHz	Quasi-pea	.6	30kHz	Quas	si-peak Value					
	30MHz-1GHz Above 1GHz	Quasi-pea Peak Peak	100KHz 1MHz 1MHz	300KHz 3MHz 10Hz	Р	si-peak Value eak Value erage Value					
	Frequen		Field St	s/meter)	Me	asurement nce (meters)					
	0.009-0.4 0.490-1.7	705	2400/F 24000/F	-(KHz)							
	1.705-3		30		30						
	30-88 88-216		10 15		3						
Limit:	216-96		20		3						
Lillit.	Above 9		50		3						
	710076 3			(.6)							
	Frequency		eld Strength rovolts/meter	Measure Distan (mete	ice	Detector					
	Above 1GHz	<u>z</u>	500	3	-(d	Average					
Test setup:	Above 1GHz Computer Computer										



Above 1GHz



Test Procedure:

1. For the radiated emission test below 1GHz: The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission

TESTING CENTRE TECHNOLOGY	Report No.: TCT171106E0
	and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
	 3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 4. Use the following spectrum analyzer settings: Span shall wide enough to fully capture the emission being measured;
	 (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test mode:	Refer to section 4.1 for details
Test results:	PASS





6.8.2. Test Instruments

	Radiated Em	ission Test Si	te (966)			
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018		
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018		
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018		
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018		
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018		
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018		
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018		
Horn Antenna	Schwarzbeck	BBH 9170	582	Jun. 07, 2018		
Antenna Mast	Keleto	CC-A-4M	N/A	N/A		
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Sep. 27, 2018		
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 27, 2018		
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 27, 2018		
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 27, 2018		
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A		

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

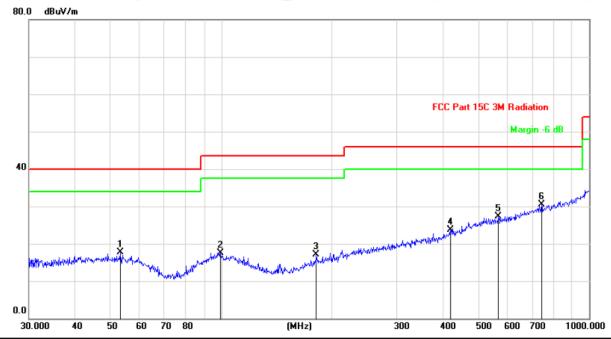


6.8.3. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:

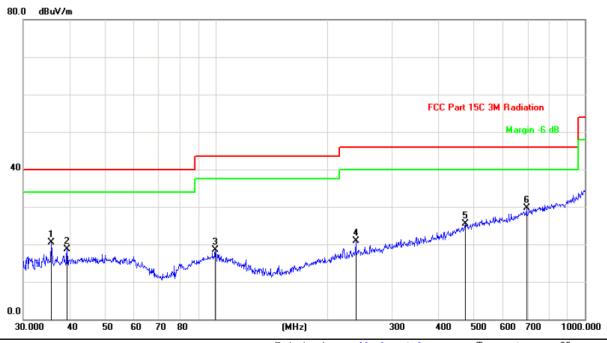


Site Polarization: Horizontal Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: DC 3.7 V Humidity: 55 %

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
-	1		53.1313	30.00	-12.27	17.73	40.00	-22.27	peak			
	2		99.5281	29.09	-11.50	17.59	43.50	-25.91	peak			
-	3		181.2834	30.11	-12.98	17.13	43.50	-26.37	peak			
-	4	•	419.1081	29.37	-5.58	23.79	46.00	-22.21	peak			
-	5		566.6223	29.57	-2.28	27.29	46.00	-18.71	peak			
	6	* .	742.2587	29.85	0.69	30.54	46.00	-15.46	peak			



Vertical:



SitePolarization:HorizontalTemperature:25Limit:FCC Part 15C 3M RadiationPower:DC 3.7 VHumidity:55 %

No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	35.7490	33.44	-13.00	20.44	40.00	-19.56	peak			
2	39.4371	31.19	-12.54	18.65	40.00	-21.35	peak			
3	99.5281	30.04	-11.50	18.54	43.50	-24.96	peak			
4	239.1473	31.15	-10.34	20.81	46.00	-25.19	peak			
5	473.8347	29.38	-3.82	25.56	46.00	-20.44	peak			
6 *	694.4174	29.77	0.02	29.79	46.00	-16.21	peak			

Note: 1.The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Middle channel) was submitted only.



Above 1GHz

Low chann	Low channel: 2402 MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
2390	Η	44.71	-	-7.52	34.19		74	54	-19.81				
4804	Η	42.59	-	7.44	49.73		74	54	-4.27				
7206	Η	35.82	-	13.54	50.06		74	54	-3.94				
	H												
	(C)		(.G			. G`\)		(,c;)					
2390	V	42.67		-7.52	34.15	<u></u>	74	54	-19.85				
4804	V	41.89		7.44	49.89		74	54	-4.11				
7206	V	35.8		13.54	50.34		74	54	-3.66				
	V	 /		(X\								

	-								
(C)		(,C)			(((,C)		I _A C
Middle cha	nnel: 2440) MHz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4880	CH	40.13	-4x G	7.01	45.13	(C) -)-	74	54	-8.87
7320	H	34.88		13.21	49.19	<u> </u>	74	54	-4.81
	Н								
4880	V	41.36		0.99	42.35		74	54	-11.65
7320	V	39.42		9.87	49.29		74	54	-4.71
	V								

High chann	nel: 2480 N	ИHz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2483.5	Η	43.15		-7.52	34.63		74	54	-19.37
4960	Н	42.6		7.44	49.22		74	54	-4.78
7440	Н	35.64		13.54	49.77		74	54	-4.23
)	Н	(<u></u>)		'()	<i>)</i>		\\\/		
2483.5	V	42.56		-7.52	34.58		74	54	-19.42
4960	V	40.49		7.44	49.44		74	54	-4.56
7440	CV	35.82	-4,0	13.54	49.84	.C- 	74	54	-4.16
	V			/				2	

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



Appendix A: Photographs of Test Setup

Product: Monster Pub smart vibrator Model: D1S Radiated Emission







Conducted Emission



















































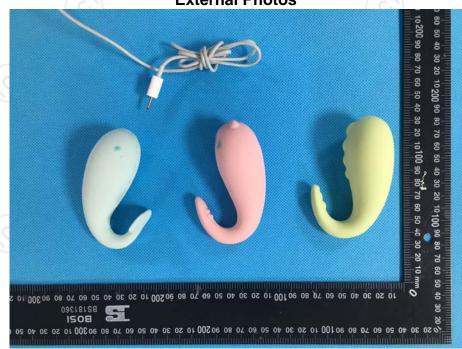








Appendix B: Photographs of EUT Product: Monster Pub smart vibrator Model: D1S External Photos



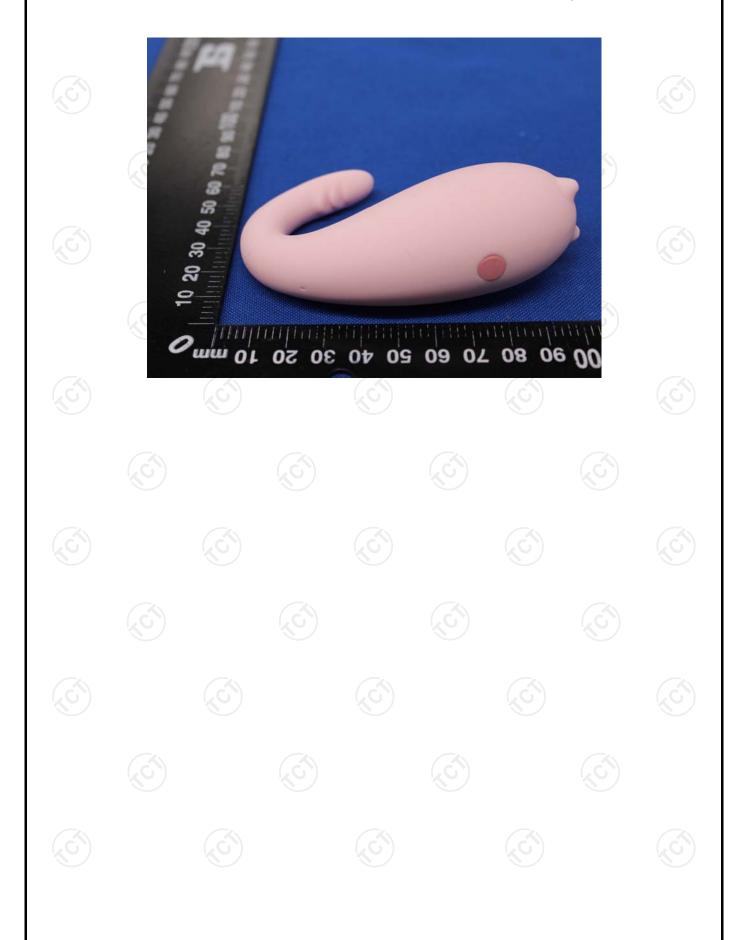














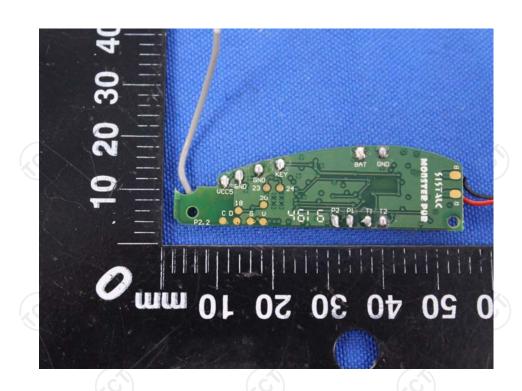
Product: Monster Pub smart vibrator Model: D1S Internal Photos

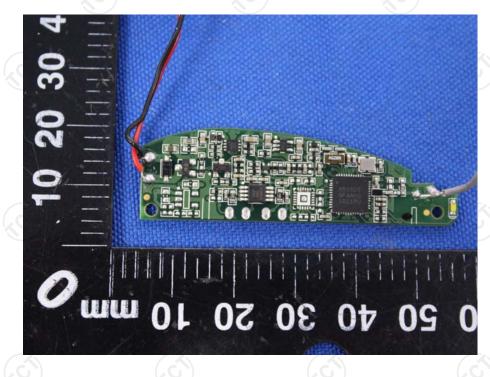




TCT通测检测

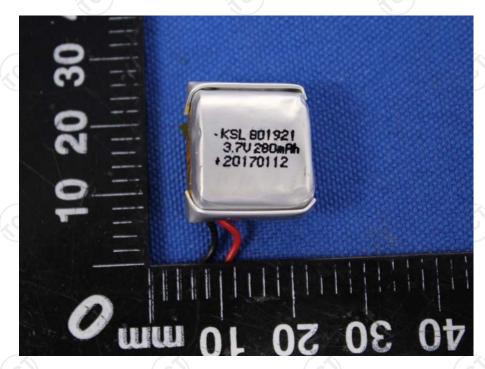
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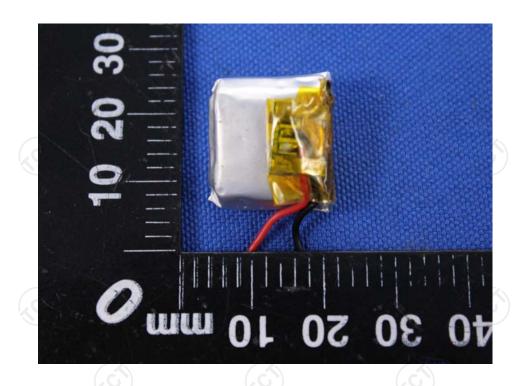












*****END OF REPORT****









