

■Report No.: DDT-R18102904-1E4

■Issued Date: Nov. 29, 2018

FCC CERTIFICATION TEST REPORT

FOR

Applicant	•	A&H Design Group, Ltd.	
Address	• •	Suite 608, Tower One, Harbour Centre, 1 Hok Cheung Street, Hung Hom, Kowloon, Hong Kong	
Equipment under Test		Tracey Cox Supersex Rechargeable Vibrating Strapless Dildo	
Model No.		1	
Trade Mark		N/A	
FCC ID	•••	2AG2K1	
Manufacturer		A&H Design Group, Ltd.	
Address	•	Suite 608, Tower One, Harbour Centre, 1 Hok Cheung Street, Hung Hom, Kowloon, Hong Kong	

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

Tel: +86-0769-38826678, **E-mail:** ddt@dgddt.com, http://www.dgddt.com



TABLE OF CONTENTS

	Test report declares	3
1	Summary of test results	6
2	General test information	7
2.1.	Description of EUT	7
2.2.	Accessories of EUT	7
2.3.	Assistant equipment used for test	7
2.4.	Block diagram of EUT configuration for test	7
2.5.	Deviations of test standard	7
2.6.	Test environment conditions	8
2.7.	Test laboratory	8
2.8.	Measurement uncertainty	8
3	Equipment used during test	9
4.	On Time and Duty Cycle	10
4.1.	Block diagram of test setup	10
4.2.	Limits	10
4.3.	Test Procedure	10
4.4.	Test Result	10
4.5.	Original test data	11
5.	20dB Bandwidth	13
5.1.	Block diagram of test setup	13
5.2.	Limits	13
5.3.	Test Procedure	13
5.4.	Test Result	13
5.5.	Original test data	13
6	Stop transmitting time test	14
6.1.	Block diagram of test setup	14
6.2.	Limits	14
6.3.	Test Procedure	14
6.4.	Test Result	14
6.5.	Original test data	14
7	Radiated emission	15
7.1.	Block diagram of test setup	15
7.2.	Limit	16
7.3.	Test Procedure	17
7.4.	Test result	19
8	Power Line Conducted Emission	23
8.1.	Block diagram of test setup	23

8.2.	Power Line Conducted Emission Limits	23
8.3.	Test Procedure	23
8.4.	Test Result	24
9	Antenna Requirements	25

TEST REPORT DECLARE

Applicant	:	A&H Design Group, Ltd.	
Address	:	Suite 608, Tower One, Harbour Centre, 1 Hok Cheung Stree Hung Hom, Kowloon, Hong Kong	
Equipment under Test	:	Tracey Cox Supersex Rechargeable Vibrating Strapless Dildo	
Model No.		1	
Trade mark		N/A	
Manufacturer	:	A&H Design Group, Ltd.	
Address	:	Suite 608, Tower One, Harbour Centre, 1 Hok Cheung Street, Hung Hom, Kowloon, Hong Kong	

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C.

Test procedure used:

ANSI C63.10:2013

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

 Report No.:
 DDT-R18102904-1E4

 Date of Receipt:
 Nov. 01, 2018
 Date of Test:
 Nov. 01, 2018~ Nov. 29, 2018

Prepared By:

Ella Gong

Ella Gong/Engineer

Damon Hu/EMC Manager

Approved By:

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision history

Rev.	Revisions	Issue Date	Revised By
	Initial issue	Nov. 29, 2018	

1 Summary of test results

Description of Test Item	Standard	Results		
20dB Bandwidth	FCC Part 15: 15.215 ANSI C63.10:2013	PASS		
Stop Transmitting Time Test	FCC Part 15C: 15.231(a)(1)	PASS		
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.231(b) ANSI C63.10:2013	PASS		
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.10:2013	N/A		
Antenna requirement	FCC Part 15: 15.203 RSS-210 Issue 9	PASS		
Note: N/A is an abbreviation for Not Applicable.				

2 General test information

2.1. Description of EUT

EUT* Name	:	Tracey Cox Supersex Rechargeable Vibrating Strapless Dildo
Model Number	:	1
EUT function description	:	Please reference user manual of this device
Power supply	:	DC 3.0V (1*3.0V CR2032 button cell)
Operation frequency	:	433.92MHz
Modulation	:	ASK
Antenna Type	:	Integrated antenna
Sample Type	:	Series production

Note: EUT is the ab. of equipment under test.

2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Serial No.	Other
N/A	N/A	N/A	N/A	N/A

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Serial No.	Other
N/A	N/A	N/A	N/A	N/A

2.4. Block diagram of EUT configuration for test

EUT

Tested mode, channel, information		
Mode	Channel	Frequency (MHz)
TX mode	/	433.92

2.5. Deviations of test standard

No Deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25℃
Humidity range:	40-75%
Pressure range:	86-106kPa

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,

Guangdong Province, China, 523808

Tel: +86-0769-89201699, http://www.dgddt.com, Email: ddt@dgddt.com

CNAS Accreditation No. L6451; A2LA Accreditation No. 3870.01

FCC Designation Number: CN1182; FCC Test Firm Registration Number: 540522

Industry Canada site registration number: 10288A-1

2.8. Measurement uncertainty

Test Item	Uncertainty		
Bandwidth	1.1%		
Peak Output Power(Conducted)(Spectrum	$0.86dB (10 MHz \le f < 3.6GHz);$		
analyzer)	1.38dB (3.6GHz ≤ f < 8GHz)		
Peak Output Power(Conducted)(Power Sensor)	0.74dB		
Power Spectral Density	$0.74dB (10 MHz \le f < 3.6GHz);$		
Power Spectral Density	1.38dB (3.6GHz ≤ f < 8GHz)		
Eroguanaias Stability	6.7 x 10 ⁻⁸ (Antenna couple method)		
Frequencies Stability	5.5 x 10 ⁻⁸ (Conducted method)		
	$0.86dB (10 MHz \le f < 3.6GHz);$		
Conducted spurious emissions	1.40dB (3.6GHz ≤ f < 8GHz)		
	1.66dB (8GHz≤ f < 22GHz)		
Uncertainty for radio frequency (RBW<20kHz)	3×10 ⁻⁸		
Temperature	0.4℃		
Humidity	2%		
Uncertainty for Radiation Emission test	4.70 dB (Antenna Polarize: V)		
(30MHz-1GHz)	4.84 dB (Antenna Polarize: H)		
	4.10dB (1-6GHz)		
Uncertainty for Radiation Emission test	4.40dB (6GHz-18GHz)		
(1GHz-40GHz)	3.54dB (18GHz-26GHz)		
	4.30dB (26GHz-40GHz)		
Uncertainty for Power line conduction emission test	3.32dB (150kHz-30MHz)		
Note: This uncertainty represents an expanded uncertainty expressed at approximately the			
95% confidence level using a coverage factor of k=2.			

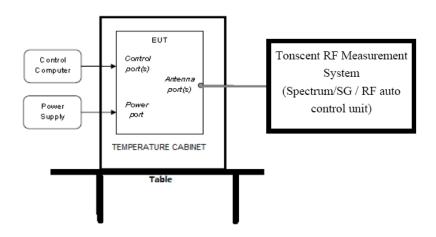
3 Equipment used during test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	
RF Connected Test (Tonscend RF N	/leasurement	System)			
Spectrum analyzer	R&S	FSU26	200071	Oct. 21, 2018	1 Year	
Wideband Radio Communication tester	R&S	CMW500	117491	Jun. 29, 2018	1 Year	
Vector Signal Generator	Agilent	E8267D	US49060192	Oct. 12, 2018	1 Year	
Vector Signal Generator	Agilent	N5182A	MY48180737	Jun. 29, 2018	1 Year	
Power Sensor	Agilent	U2021XA	MY55150010	Oct. 21, 2018	1 Year	
Power Sensor	Agilent	U2021XA	MY55150011	Oct. 23, 2018	1	
DC Power Source	MATRIS	MPS-3005L- 3	D813058W	Aug. 18, 2018		
Attenuator	Mini-Circuits	BW-S10W2	101109	Aug. 18, 2018	1 Year	
RF Cable	Micable	C10-01-01-1	100309	Oct. 21, 2018		
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-15 0L	ZX170110-A	Oct. 21, 2018	1 Year	
Test Software	JS Tonscend	JS1120-3	Ver.2.7	N/A	N/A	
Radiation 1#chambe	r			•		
EMI Test Receiver	R&S	ESU8	100316	Oct. 12, 2018	1 Year	
Spectrum analyzer	Agilent	E4447A	MY50180031	Jun. 29, 2018		
Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	Nov. 16, 2018		
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Oct. 20, 2018	1 Year	
Double Ridged Horn Antenna	R&S	HF907	100276	Oct. 17, 2018		
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	Oct. 25, 2018	1 Year	
Pre-amplifier	A.H.	PAM-0118	360	Oct. 12, 2018	1 Year	
Pre-amplifier	TERA-MW	TRLA-0040 G35	101303	Oct. 12, 2018	1 Year	
RF Cable	HUBSER	CP-X2+ CP-X1	W11.03+ W12.02	Oct. 21, 2018	1 Year	
RF Cable	N/A	SMAJ-SMA J-1M+ 11M	17070133+17 070131	Nov. 08, 2018	1 Year	
MI Cable	HUBSER	C10-01-01-1 M	1091629	Oct. 21, 2018	1 Year	
Test software	Audix	E3	V 6.11111b	N/A	N/A	
Power Line Conduct	ed Emissions 1	est	•	•	•	
EMI Test Receiver	R&S	ESU8	100316	Oct. 21, 2018	1 Year	
LISN 1	R&S	ENV216	101109	Oct. 21, 2018		
LISN 2	R&S	ESH2-Z5	100309	Oct. 21, 2018		
Pulse Limiter	R&S	ESH3-Z2	101242	Oct. 21, 2018		
CE Cable 1	HUBSER	N/A	W10.01	Oct. 21, 2018		
Test software	Audix	E3	V 6.11111b	N/A	N/A	

Report No.: DDT-R18102904-1E4

4. On Time and Duty Cycle

4.1. Block diagram of test setup



4.2. Limits

None: for reporting purposes only.

4.3. Test Procedure

Set the Centre frequency of the spectrum analyzer to the transmitting frequency;

Set the span=0MHz, RBW=1MHz, VBW=1MHz, Sweep time=100ms;

Trace mode = Single hold.

4.4. Test Result

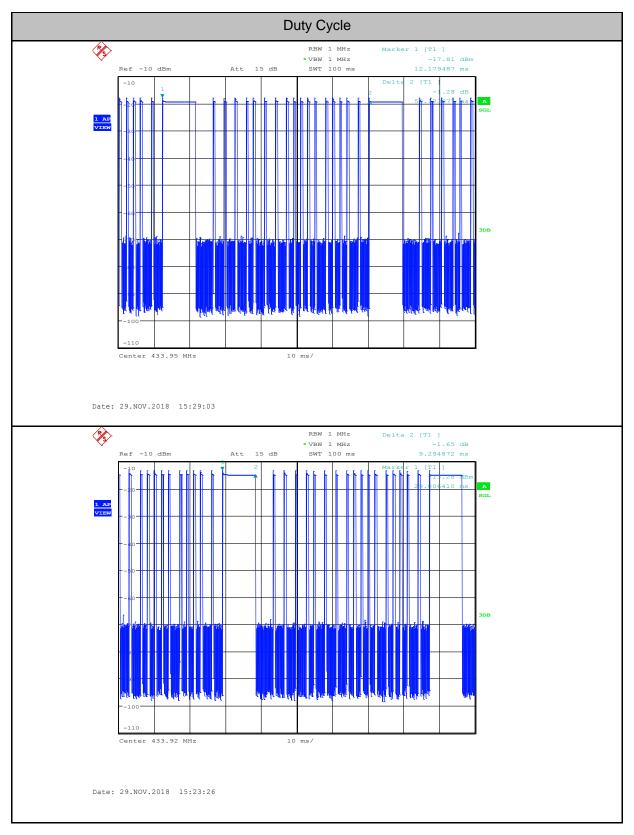
Test Channel	Duty Cycle[%]	Duty Factor[dB]
433.92	34.71	-9.19

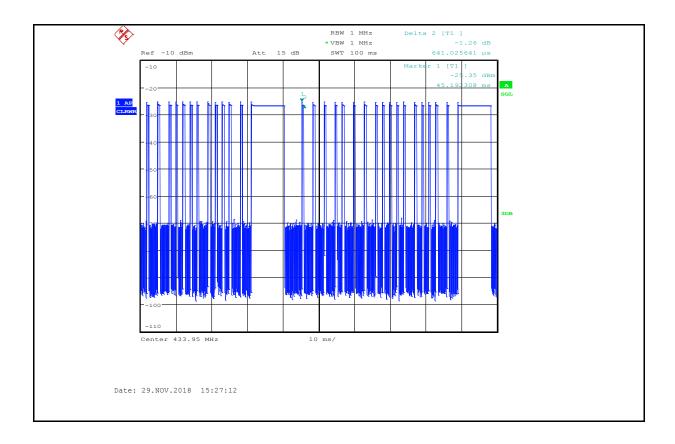
Note 1: The transmitter duty cycle was measured using a spectrum analyser in the time domain and calculated by below Equation:

Duty Factor (dB) = $20 \log((641.026*17/1000+9.295)/58.173)=-9.19dB$

Note 2: In cases where the pulse train exceeds 0.1 s, the measured field strength shall be determined during a 0.1 s interval

4.5. Original test data





5. 20dB Bandwidth

5.1. Block diagram of test setup



5.2. Limits

The bandwidth of the emission shall be no wider than 0.25% of the center frequency of devices operation above 70MHz and below 900MHz.

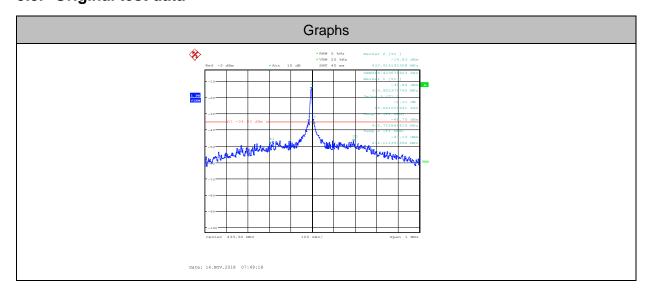
5.3. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) The bandwidth of the fundamental frequency was measured by spectrum analyzer with 5kHz RBW and 20kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

5.4. Test Result

Frequency (MHz)	20 dB Bandwidth (kHz)	Limit (MHz): No wider than 0.25% of the center frequency	Conclusion
433.92	25.641	433.92*0.25%=1.0848MHz	PASS

5.5. Original test data



Stop transmitting time test

6.1. Block diagram of test setup



6.2. Limits

15.231(a) (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released

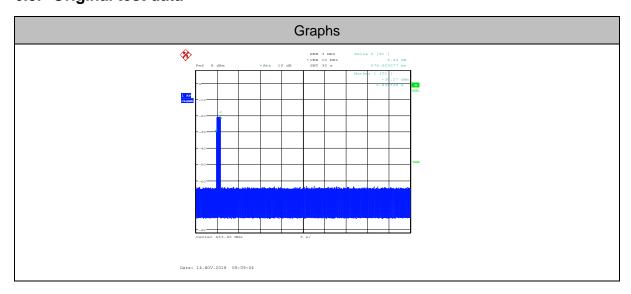
6.3. Test Procedure

- (1) The EUT's RF signal was coupled to spectrum analyzer by antenna connected to spectrum analyzer.
- (2) Set the spectrum to zero span mode, and centered of EUT frequency.
- (3) Measure the stop transmitting time after release EUT button.

6.4. Test Result

Frequency (MHz)	Limit	Conclusion
433.92	≤5s	PASS

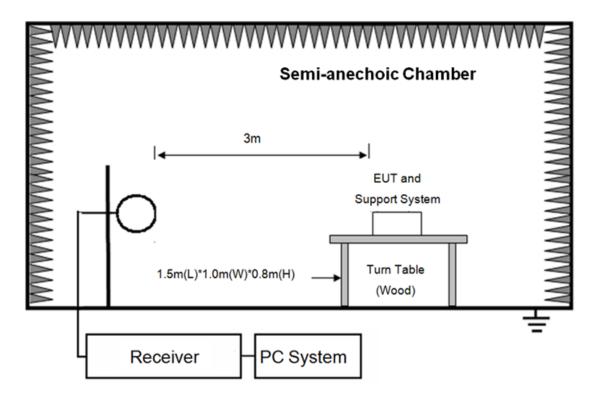
6.5. Original test data



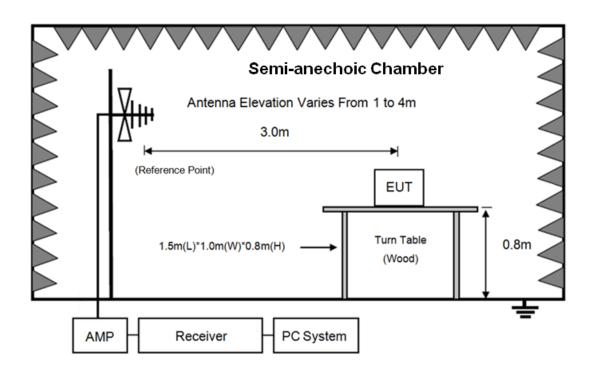
Radiated emission 7

7.1. Block diagram of test setup

In 3m Anechoic Chamber Test Setup Diagram for 9kHz-30MHz



In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



Semi-Anechoic 3m Chamber ANTENNA ELEVATION VARIES FROM 1 TO 4 METER 3m (Reference Point) 1.5m(L)*1.0m(W)*1.5m(H) **EUT TURN TABLE ABSORBER** (FIBRE GLASS) AMP Spectrum Receiver PC System

In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz

Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

7.2. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.G
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			_

(2) FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
1411.12	Wietere	μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

(3) FCC 15.231 section (b) limit

Fundamental Frequency	Field Strength of Fundamental
(MHz)	
433.92	AV:80.82dBuV/m @3m
455.92	PK:100.82dBuV/m @3m

Note: (1)The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz.Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer then that specified, and the limit at closer measurement distance can be extrapolated by below formula:

(3) Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions include fundamental emission shall not exceed FCC 15.231 section (b) limit of comply with FCC 15.209 limit which permit higher emission level.

7.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for blow 1G and 150 cm above the ground plane inside a semi-anechoic chamber for above 1G.
- (2) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9kHz-30MHz	Active Loop antenna	3m

According ANSI C63.10:2013 clause 6.4.4.2 and 6,5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground for measurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

- (3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9kHz to 5GHz (tenth harmonic of fundamental frequency):
- (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)
 - (b) Change work frequency or channel of device if practicable.
 - (c) Change modulation type of device if practicable.
 - (d) Change power supply range from 85% to 115% of the rated supply voltage
- (e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.
- (4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10 2013 on Radiated Emission test.
- (5) The emissions from 9kHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz, for emissions from 9kHz-90kHz,110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.
- (6) The emissions from 9kHz to 1GHz, QP or average values were measured with EMI receiver with below RBW.

	D D 144
Frequency hand	I RRW
Frequency band	NDW

9kHz-150kHz	200Hz
150kHz-30MHz	9kHz
30MHz-1GHz	120kHz

- (7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RMS detector RBW 1MHz VBW 3MHz for Average measure(according ANSI C63.10:2013 clause 4.2.3.2.3 procedure for average measure).
- (8) X axis, Y axis, Z axis are tested, and worse setup X axis is reported.

7.4. Test result

PASS. (See below detailed test result)

Note1: According exploratory test no any obvious emission were detected from 9kHz to 30MHz. Note2: For emissions above 1GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Radiated Emission test (below 1GHz)

TR-4-E-009 Radiated Emission Test Result

D:\2018 RE1# Report Data\Q18102904-1E LH 73518\FCC **Test Site** : DDT 3m Chamber 1#

BELOW1G.EM6

Test Date : 2018-11-02 **Tested By** : Talent

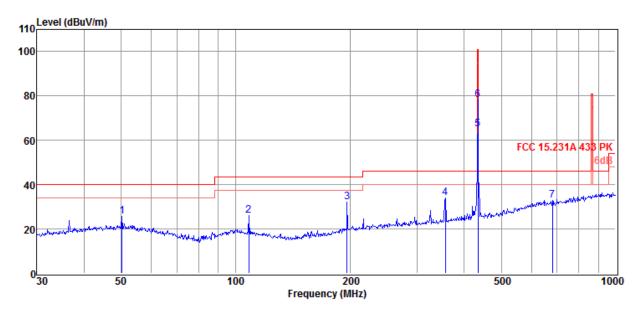
Tracey Cox Supersex Rechargeable **Model Number EUT** Vibrating Strapless Dildo

Test Mode Power Supply : Battery : Tx mode

Temp:24.5'C, Humi:55.5%, Condition Antenna/Distance : 2017 VULB 9163 1#/3m/VERTICAL Press:100.1kPa

Memo : 433.92MHz

Data: 1



Item	Freq.	Read	Antenna	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	(dBµV/m)	(dBµV/m)	(dB)		
1	50.23	7.92	13.74	3.99	25.65	40.00	-14.35	Peak	VERTICAL
2	108.27	10.99	10.50	4.48	25.97	43.50	-17.53	Peak	VERTICAL
3	196.51	16.05	11.20	5.00	32.25	43.50	-11.25	Peak	VERTICAL
4	356.68	13.98	14.44	5.78	34.20	46.00	-11.80	Peak	VERTICAL
6	433.92	56.39	16.04	5.72	78.15	/	/	Peak	VERTICAL
7	682.35	6.20	19.65	6.95	32.80	46.00	-13.20	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

: DDT 3m Chamber 1#

TR-4-E-009 Radiated Emission Test Result

D:\2018 RE1# Report Data\Q18102904-1E LH 73518\FCC

: Tx mode

BELOW1G.EM6

Test Mode

Test Date : 2018-11-02 Tested By : Talent

Tracey Cox Supersex Rechargeable Model Number : 1

Vibrating Strapless Dildo

Temp:24.5'C, Humi:55.5%,

Condition : Temp:24.5 C, Furill: 55.5%, Press:100.1kPa : 2017 VULB 9163 1#/3m/HORIZONTAL

Memo : 433.92MHz

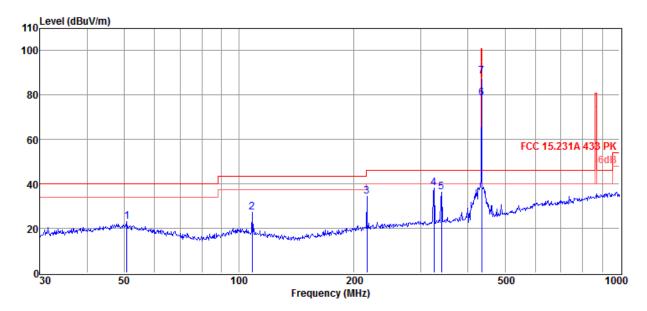
: Battery

Data: 2

Test Site

Power Supply

EUT



Item	Freq.	Read	Antenna	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	(dBµV/m)	(dBµV/m)	(dB)		
1	50.76	5.61	13.60	4.00	23.21	40.00	-16.79	Peak	HORIZONTAL
2	108.27	12.41	10.50	4.48	27.39	43.50	-16.11	Peak	HORIZONTAL
3	216.78	17.31	11.86	5.12	34.29	46.00	-11.71	Peak	HORIZONTAL
4	325.60	18.71	13.84	5.64	38.19	46.00	-7.81	Peak	HORIZONTAL
5	340.78	16.58	14.14	5.71	36.43	46.00	-9.57	Peak	HORIZONTAL
7	433.92	66.61	16.04	5.72	88.37	/	/	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Field Strength Of The Fundamental Signal

Frequency (MHz)	PK Level (dBuV/m)	PK Limit Line (dBuV/m)	Over Limit (dB)	Polarization
433.92	88.37	100.82	-12.45	Horizontal
433.92	78.15	100.82	-22.67	Vertical

	Frequency (MHz)	AV Level (dBuV/m)	AV Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
	433.92	79.18	80.82	-1.64	Horizontal				
433.92 68.96		80.82	-11.86	Vertical					
	Note: AV Level= PK Level+ Duty factor								

Radiated Emission test (above 1GHz)

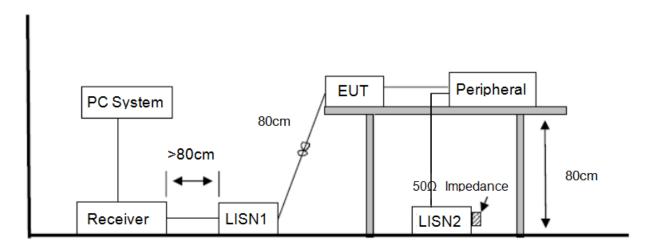
		011 1001	(- /				
Freq. (MHz)	Read level (dBµV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector type	Polarization
Tx mode									
1731.00	64.10	25.01	44.41	4.29	48.99	74.00	-25.01	Peak	HORIZONTAL
2173.00	65.72	26.22	44.31	4.87	52.50	74.00	-21.50	Peak	HORIZONTAL
3040.00	51.31	29.60	44.35	5.81	42.37	74.00	-31.63	Peak	HORIZONTAL
5743.00	51.54	35.60	43.35	8.05	51.84	74.00	-22.16	Peak	HORIZONTAL
8446.00	48.00	37.29	43.93	9.74	51.10	74.00	-22.90	Peak	HORIZONTAL
9483.00	48.53	37.69	44.24	10.62	52.60	74.00	-21.40	Peak	HORIZONTAL
1731.00	66.95	25.01	44.41	4.29	51.84	74.00	-22.16	Peak	VERTICAL
1884.00	63.59	25.34	44.35	4.51	49.09	74.00	-24.91	Peak	VERTICAL
4621.00	48.29	34.39	44.03	7.20	45.85	74.00	-28.15	Peak	VERTICAL
5726.00	48.18	35.59	43.36	8.04	48.45	74.00	-25.55	Peak	VERTICAL
7426.00	46.55	36.97	43.63	8.71	48.60	74.00	-25.40	Peak	VERTICAL
9313.00	46.55	37.63	44.19	10.53	50.52	74.00	-23.48	Peak	VERTICAL
Result: Pass									

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

^{2:} For emissions above 1GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

8 Power Line Conducted Emission

8.1. Block diagram of test setup



8.2. Power Line Conducted Emission Limits

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)		
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*		
500kHz ~ 5MHz	56	46		
5MHz ~ 30MHz	60	50		

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

8.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

8.4. Test Result

Not Applicable

Conducted limits are not required for devices which only employ battery power for operation according to 15.207(C)

9 Antenna Requirements

For intentional device, according to FCC 47 CFR Section 15.203, 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 shall be considered sufficient to comply with the provisions of this section. 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.

END OF REPORT