# RF TEST REPORT



Report No.: 18020176-FCC-R1 Supersede Report No.: N/A

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Applicant	Great American Merchandise & Events (GAME)			
<b>Product Name</b>	Pool & Spa Thermometer with Indoor Display			
Main Model	15900-4PK-E-01			
Serial Model	N/A			
Test Standard	FCC Part 15.231:	: 2017, ANSI C63.10: 2013		
Test Date	February 6 to Feb	oruary 7, 2018		
Issue Date	February 9, 2018			
Test Result	Pass F	ail		
Equipment complied	d with the specific	ation		
Equipment did not comply with the specification				
Louis	e Tu	Deon Dai	国第一教育科·松野·国	
Louise Test Engi	-	Deon Dai Engineer Reviewer		
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only				

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## **Laboratories Introduction**

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Accordance for Comorning Accordance		
Country/Region	Scope	
USA	EMC , RF/Wireless , Telecom	
Canada	EMC, RF/Wireless , Telecom	
Taiwan	EMC, RF, Telecom , Safety	
Hong Kong	RF/Wireless ,Telecom	
Australia	EMC, RF, Telecom , Safety	
Korea	EMI, EMS, RF , Telecom, Safety	
Japan	EMI, RF/Wireless, Telecom	
Singapore	EMC, RF, Telecom	
Europe	EMC, RF, Telecom , Safety	



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# 1. Report Revision History

Report No.	Report Version	Description	Issue Date
18020176-FCC-R1	NONE	Original	February 9, 2018
			_
_			

## 2. <u>Customer information</u>

Applicant Name	Great American Merchandise & Events (GAME)
Applicant Add	16444 N 91st Street, Scottsdale, AZ 85260,USA
Manufacturer Name	Great American Merchandise & Events (GAME)
Manufacturer Add	16444 N 91st Street, Scottsdale, AZ 85260,USA

### 3. Test site information

Lab performing tests	SIEMIC (Nanjing-China) Laboratories
Lab Add	2-1 Longcang Avenue Yuhua Economic and Technology Development Park, Nanjing, China
FCC Test Site No.	694825
IC Test Site No.	4842B-1
Test Software	EZ_EMC



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## 4. Equipment Under Test (EUT) Information

Description of EUT:	Pool & Spa Thermometer with Indoor Display	

Main Model: 15900-4PK-E-01

Serial Model: N/A

Date EUT received: February 6, 2018

Test Date(s): February 6 to February 7, 2018

Antenna Gain: 0 dBi

Type of Modulation: ASK

RF Operating Frequency (ies): Tx:433.92 MHz

Number of Channels: 1 CH

Port: N/A

Input Power: 2.7-3.3V

Trade Name : N/A

FCC ID: 2AKBO-15900-2



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### 5. Test Summary

The product was tested in accordance with the following specifications. All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result		
§15.203	Antenna Requirement	Compliance		
§15.207	Conducted Emissions Voltage N/A			
§15.231(b)	Fundamental & Radiated Spurious Emission Complian			
§15.231(c)	20dB Bandwidth Compl			
§15.231(a)(1)	Deactivation	Compliance		

Note: Preliminary radiated emission testing has been performed on X, Y, Z axis, only worst case test result is presented in this test report. "N/A" means the EUT is powered by the battery.

#### **Measurement Uncertainty**

Emissions				
Test Item	Description	Uncertainty		
Conducted Emissions & Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	1.634dB / 3.952dB		



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#### 6. Measurements, Examination And Derived Results

### 6.1 Antenna Requirement

#### **Applicable Standard**

Requirement(s): 47 CFR §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.

Antenna requirement must meet at least one of the following:

- a) Antenna must be permanently attached to the device.
- b) Antenna must use a unique type of connector to attach to the device.
- c) Device must be professionally installed. Installer shall be responsible for ensuring that the correct antenna is employed with the device.

The antenna is permanently attached to the device which meets the requirement.

Result: Compliance.



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# **6.2 AC Conducted Emissions Voltage**

Temperature	
Relative Humidity	
Atmospheric Pressure	
Test date :	
Tested By:	

#### **Conducted Emission Limit**

Frequency ranges	Liı	mit (dBµV)		
(MHz)	QP	Average		
0.15 ~ 0.5	66 – 56	56 – 46		
0.5 ~ 5	56	46		
5 ~ 30	60	50		

Spec	Item	Requirement	Applicable	
47CFR§15.20 7	a)	For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu]H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequency ranges.		
Test Setup		Vertical Ground Reference Plane  Horizontal Ground Reference Plane  Note: 1.Support units were connected to second LISN.  2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.		
Procedure	<ul> <li>The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in Annex B.</li> <li>The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains.</li> <li>The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.</li> <li>All other supporting equipment were powered separately from another main supply.</li> </ul>			
Remark	"N/A" m	neans the EUT is powered by the battery.		
Result	✓ <sub>N/A</sub>	Fail		



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**Test Data** 

✓ N/A

☐ Fail

Test Plot

✓ N/A

Fail

Data sample

No.	Frequency	Reading	Detector	Lisn/Isn	Ps_Lmt	Cab_L	Result	Limit	Margin
	(MHz)	(dB <sub>µ</sub> V)		(dB)	(dB)	(dB)	(dB <sub>µ</sub> V)	(dB <sub>µ</sub> V)	(dB)

Frequency (MHz) = Emission frequency in MHz

Reading ( $dB\mu V$ ) = Receiver Reading Value

Detector=Quasi Peak Detector or Average Detector

Lisn/ISN= Insertion loss of LISN

Ps\_Lmt= Insertion loss of transient limiter (The transient limiter included 10dB attenuation)

Cab\_L= cable loss

Result ( $dB\mu V$ ) = Reading Value + Corrected Value

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

#### **Calculation Formula:**

Margin (dB) = Result (dB $\mu$ V) – limit (dB $\mu$ V)



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# 6.3 20dB Occupied Bandwidth

Temperature	18°C
Relative Humidity	50%
Atmospheric Pressure	1018mbar
Test date :	February 7, 2018
Tested By :	Louise Tu

Requirement(s):			
Spec	Item	Requirement	Applicable
§15.231(c)	a)	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz.	>
	b)	For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency.	
Test Setup		Spectrum Analyzer EUT	
Test Procedure	- - - - - M a	Set RBW = 100 kHz.  Set the video bandwidth (VBW) ≥3*RBW.  Detector = Peak.  Trace mode = max hold.  Sweep = auto couple.  Allow the trace to stabilize.  Measure the maximum width of the emission that is constrained by the ssociated with the two outermost amplitude points (upper and lower finat are attenuated by 20 dB relative to the maximum level measured undamental emission.	frequencies)
Remark			
Result	Pas	s Fail	

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes	□ <sub>N/A</sub>

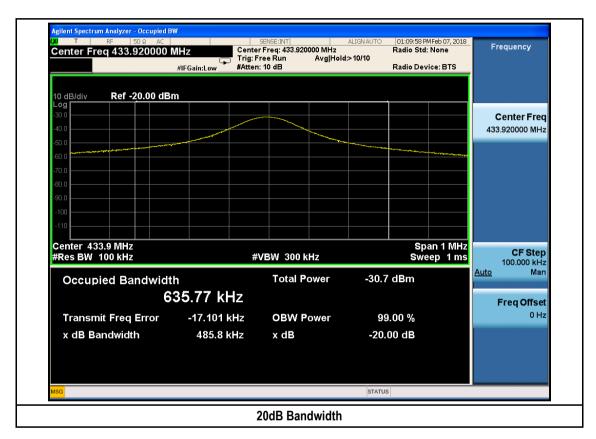


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#### 20dB Bandwidth measurement result

Туре	Freq (MHz)	СН	Measured 20dB Bandwidth (kHz)	Limit (kHz)	Result	
20dB BW	433.92	1 CH	485.8	1084.8	Pass	

# Test Plots 20dB Bandwidth measurement result





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# **6.4 Radiated Fundamental and Spurious Emission**

Temperature	18°C
Relative Humidity	50%
Atmospheric Pressure	1018mbar
Test date :	February 6 to February 7, 2018
Tested By:	Louise Tu

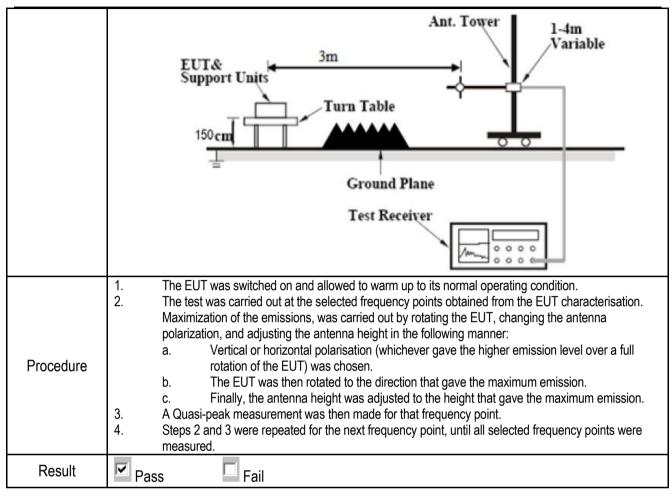
#### Requirement(s):

B: >1GHz

Spec	Item	Requirement			Applicable
§15.231(b)	a)	Intentional radiators ma paragraph (a) of this se- including operation prof- intentional radiator com	field strength table in paragi	for any type of operation, is section, provided the paragraphs (b) through (d) of	<b>V</b>
		Above 470	5000	500	
	A: < 10	GHz	A	nt. Tower 1-4m	
		EUT& Support Units	3m Turn Table	Variable	
Test Setup		80cm	Ground Plane	<del>- 0 0</del>	-
			Test Receiver		



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Test Data
Yes
Yes (See below)

N/A



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#### **Data Sample**

No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)

Frequency (MHz) = Emission frequency in MHz

Reading  $(dB\mu V/m)$  = Receiver Reading Value

Detector= Peak Detector or Quasi Peak Detector

Ant\_F=Antenna Factor

PA\_G=Pre-Amplifier Gain

Cab\_L=Cable Loss

Result ( $dB\mu V/m$ ) = Read ing Value + Corrected Value

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

Height (cm) = Height of Receiver antenna

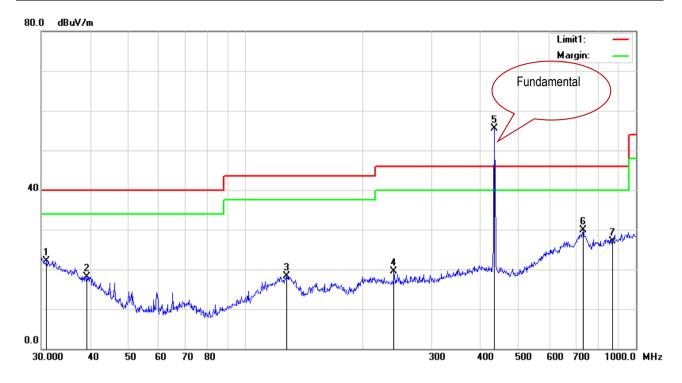
Degree = Turn table degree

#### **Calculation Formula:**

 $\overline{\text{Margin (dB)} = \text{Result (dB}_{\mu}\text{V/m}) - \text{limit (dB}_{\mu}\text{V/m})}$ 



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Vertical Polarity Plot @3m

Field strength of fundamental Result

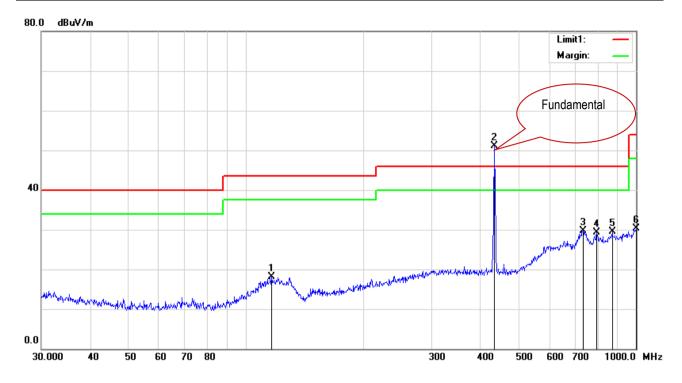
Frequency (MHz)	Reading (dBµV/m)	Factors (dB)	Azimuth	Polarity	Height (m)	correct (dBµV/m)	Limit (dBµV)	Margin (dB)	Comm ents
433.92	84.84	-29.35	27.00	V	1.00	55.49	92.87	-37.38	Pk
433.92	-	-	-	V	-	44.71	72.87	-28.16	Ave

Field strength of spurious emissions Result

Frequency (MHz)	Reading (dBµV/m)	Factors (dB)	Azimuth	Polarity	Height (m)	correct (dBµV/m)	Limit (dBµV)	Margin (dB)	Comm ents
867.84	45.6	-18.40	360.00	V	1.00	27.2	72.87	-45.67	Pk
867.84	-	-	-	V	-	16.42	52.87	-36.45	Ave



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Horizontal Polarity Plot @3m

#### Field strength of fundamental Result

Frequency (MHz)	Reading (dBµV/m)	Factors (dB)	Azimuth	Polarity	Height (m)	correct (dBµV/m)	Limit (dBµV)	Margin (dB)	Comm ents
433.92	80.79	-29.35	270.00	Н	2.00	51.44	92.87	-41.43	Pk
433.92	-	-	-	Н	-	40.66	72.87	-32.21	Ave

#### Field strength of spurious emissions Result

Frequency (MHz)	Reading (dBµV/m)	Factors (dB)	Azimuth	Polarity	Height (m)	correct (dBµV/m)	Limit (dBµV)	Margin (dB)	Comm ents
433.92	80.79	-29.35	270.00	Н	2.00	51.44	92.87	-41.43	Pk
433.92	-	-	-	Н	-	40.66	72.87	-32.21	Ave



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#### Spurious Emissions (<1GHz) Measurement Result

Vertical Polarity Plot @3m

						· · · · · · · · · · · · · · · · · · ·	<b>@</b> ••••				
No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
1	30.9619	45.93	peak	21.04	45.68	0.89	22.18	40.00	-17.82	100	14
2	39.2991	46.62	peak	16.19	45.69	1.04	18.16	40.00	-21.84	200	169
3	127.6645	47.42	peak	16.25	47.13	1.84	18.38	43.50	-25.12	100	147
4	239.9873	49.39	peak	14.89	47.33	2.46	19.41	46.00	-26.59	200	235
6	731.9203	48.74	peak	22.26	45.38	4.34	29.96	46.00	-16.04	100	299
7	867.8400	45.60	peak	22.99	46.15	4.76	27.20	46.00	-18.80	100	360

Horizontal Polarity Plot @3m

No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
1	116.5401	47.04	peak	15.69	46.45	1.75	18.03	43.50	-25.47	300	27
3	731.9203	48.24	peak	22.59	45.38	4.34	29.79	46.00	-16.21	300	160
4	793.3960	48.06	peak	22.96	46.29	4.53	29.26	46.00	-16.74	199	359
5	869.1302	48.01	peak	22.79	46.12	4.76	29.44	46.00	-16.56	199	91
6	1000.0000	46.23	peak	25.10	46.17	5.06	30.22	54.00	-23.78	199	162

#### Notes:

- 1. Duty cycle is 28.89%, 20log (duty cycle) = -10.78dB correction was used to determine the average level from the peak reading. Average = peak reading + 20log (duty cycle), Final Average= peak reading -10.78dB
- 2. All the data measurement of peak values.
- 3. FCC Limit for Average Measurement= $16.67*(434.04-260)+1500=4401.2468\mu\text{V/m}=72.87dB\mu\text{V/m}$
- 4. Average pulsed signal over one complete pulse train or 100 ms time frame if pulse train exceeds 100 ms
- 5. Maximum average in 100 ms
- 6. Calculate duty cycle for pulse train or 100 ms
- 7. Duty cycle = (t1 + t2 + t3+...tn)/T where tn = pulse width, T = pulse train length or 100 ms



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### Spurious Emissions ( > 1GHz) Measurement Result

Frequency GHz	Reading (dBµV/m)	Direction Degree	Height Meter	Polar H/V	Factors (dB)	correct (dBµV/m)	FCC15.231 Limit (dBµV/m)	Margin	Comments
1.302	61.22	126.00	1.00	V	-19.10	42.12	74	-31.88	Peak
1.302	-	-	-	V	-	31.34	54	-22.66	Ave
1.736	63.77	134.00	1.00	V	-17.22	46.55	72.87	-26.32	Peak
1.736	-	-	-	V	-	35.77	52.87	-17.1	Ave
2169	63.7	6.00	1.00	V	-16.81	46.89	72.87	-25.98	Peak
2169	-	-	-	V	-	36.11	52.87	-16.76	Ave
2.603	63.76	214.00	2.00	V	-16.96	46.8	72.87	-26.07	Peak
2.603	-	-	-	V	ı	36.02	52.87	-16.85	Ave
3.037	59.47	249.00	1.00	V	-16.77	42.7	72.87	-30.17	Peak
3.037	-	-	-	V	-	31.92	52.87	-20.95	Ave
3.471	58.5	19.00	2.00	V	-16.37	42.13	72.87	-30.74	Peak
3.471	-	-	-	V	-	31.35	52.87	-21.52	Ave
3.905	56.9	299.00	1.00	V	-15.97	40.93	72.87	-31.94	Peak
3.905	-	-	-	V	-	30.15	52.87	-22.72	Ave
4.338	57.78	267.00	2.00	V	-14.26	43.52	74	-30.48	Peak
4.338	-	-	-	V	-	32.74	54	-21.26	Ave
1.302	61.05	5.00	1.00	Н	-19.10	41.95	74	-32.05	Peak
1.302	-	-	-	Н	-	31.17	54	-22.83	Ave
1.736	62.15	128.00	1.00	Н	-17.22	44.93	72.87	-27.94	Peak
1.736	-	-	-	Н	-	34.15	52.87	-18.72	Ave
2169	68.46	293.00	1.00	Н	-16.81	51.65	72.87	-21.22	Peak
2169	-	-	-	Н	-	40.87	52.87	-12	Ave
2.603	64.87	337.00	2.00	Н	-16.96	47.91	72.87	-24.96	Peak
2.603		-	-	Н	-	37.13	52.87	-15.74	Ave
3.037	58.42	144.00	1.00	Н	-16.77	41.65	72.87	-31.22	Peak
3.037	-	-	-	Н	-	30.87	52.87	-22	Ave
3.471	57.7	359.00	2.00	Н	-16.37	41.33	72.87	-31.54	Peak
3.471	-	-	-	Н	-	30.55	52.87	-22.32	Ave
3.905	56.9	257.00	1.00	Н	-15.97	40.93	72.87	-31.94	Peak
3.905	-	-	-	Н	-	30.15	52.87	-22.72	Ave
4.338	56.29	198.00	1.00	Н	-14.26	42.03	74	-31.97	Peak
4.338	-	-	-	Н	-	31.25	54	-22.75	Ave

Note: Duty cycle is 28.89%, 20log (duty cycle) = -10.78dB correction was used to determine the average level from the peak reading. Average = peak reading + 20log (duty cycle), final Average= peak reading -10.78dB

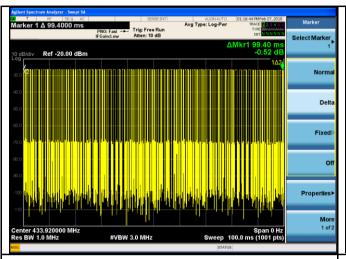
Note:

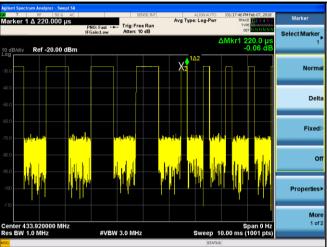
Narrow Pulse: 0.22ms 2/NP = 2/0.22ms =9.09 kHz RBW > 2/NP (9.09 kHz) Therefore PDCF is not needed.



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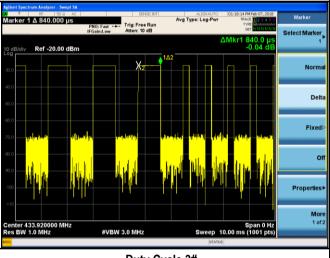
#### **Duty Cycle Measurement Result**





**Duty Cycle 2#** 

**Duty Cycle 1#** 



#### **Duty Cycle 3#**

Wide Pulse: 0.84ms
Narrow Pulse: 0.22ms
Duty cycle= (0.84\*8+0.22\*100)/99.4\*100%=28.89%
Average Duty Factor: 20\*log (Duty Cycle) = -10.78 dB

**Pulse Duty Cycle** 



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#### 6.5 Deactivation

Temperature	18°C
Relative Humidity	50%
Atmospheric Pressure	1018mbar
Test date :	March 05, 2018
Tested By :	Louise Tu

Requirement(s): Spec Item Requirement Applicable In addition, devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall 굣 §15.231 e) not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds. Spectrum Analyzer EUT Test Setup measurement procedure Set analyzer center frequency to channel center frequency. Set the span to 0Hz. Set the VBW  $\geq$  3 ' RBW. Test Procedure Detector = peak. Sweep time = auto couple. Trace mode = max hold. Allow trace to fully stabilize. Remark Pass Result Fail ✓ <sub>N/A</sub> Yes **Test Data** Yes (See below) **Test Plot** 



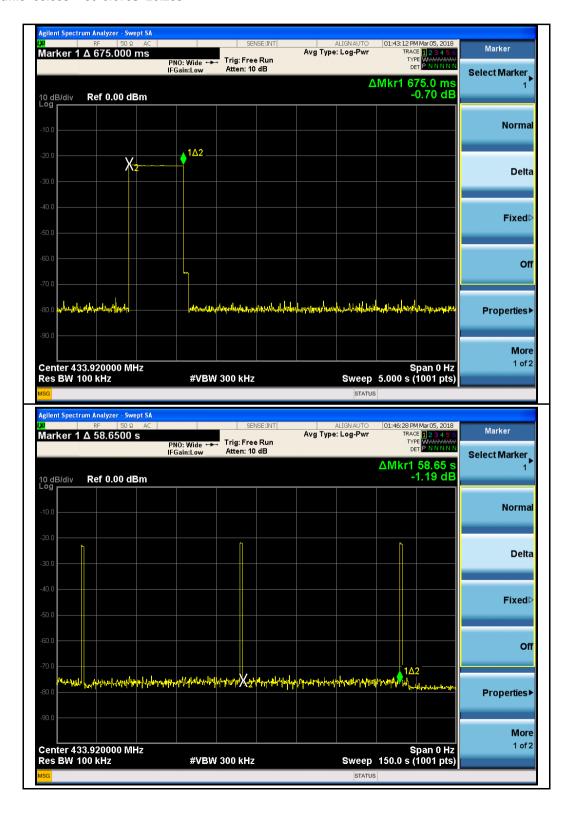
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# Test Plots Deactivation Measurement Result

Duration time=0.675s < 1s

Silent time=58.65s > 10s

Silent time=58.65s > 30\*0.675s=20.25s





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# Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted Emissions	AC Line Conducted Emissions				
R&S EMI Test Receiver	ESPI3	101216	05/03/2017	05/02/2018	
V-LISN	ESH3-Z5	838979/005	05/15/2017	05/14/2018	
SIEMIC EZ_EMC software Conducted Emissions	Ver.ICP-03A1	N/A	N/A	N/A	
RF conducted test					
Agilent Technologies Spectrum Analyzer	N9010A	MY47191130	05/03/2017	05/02/2018	$\boxtimes$
Radiated Emissions					
Agilent Technologies Spectrum Analyzer	N9010A	MY47191130	05/03/2017	05/02/2018	$\boxtimes$
R&S EMI Receiver	ESPI3	101216	05/03/2017	05/02/2018	$\boxtimes$
Antenna (30MHz~6GHz)	JB6	A121411	10/31/2017	10/30/2018	$\boxtimes$
EMCO Horn Antenna (1 ~18GHz)	3115	N/A	11/15/2017	11/14/2018	
Hp Agilent Pre-Amplifier	8447F	1937A01160	10/31/2017	10/30/2018	$\boxtimes$
Pre-Amplifier	8449B	3008A02224	10/30/2017	10/29/2018	$\boxtimes$
SIEMIC EZ_EMC software Radiated Emissions	Ver.ICP-03A1	N/A	N/A	N/A	$\boxtimes$



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### Annex B. EUT And Test Setup Photographs

#### Annex B.i. Photograph: EUT External Photos



Top View of EUT



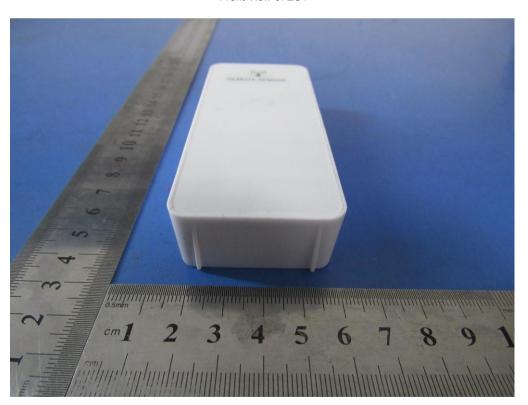
Bottom View of EUT



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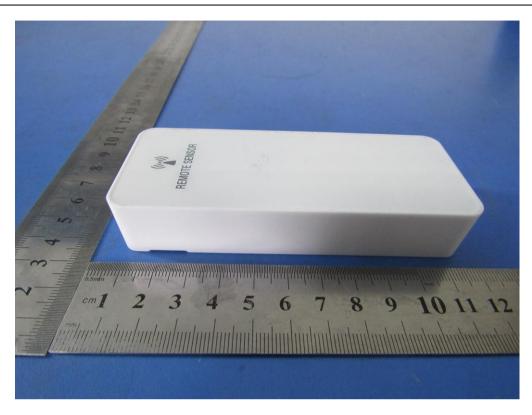
Front View of EUT



Rear View of EUT



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Left View of EUT



Right View of EUT

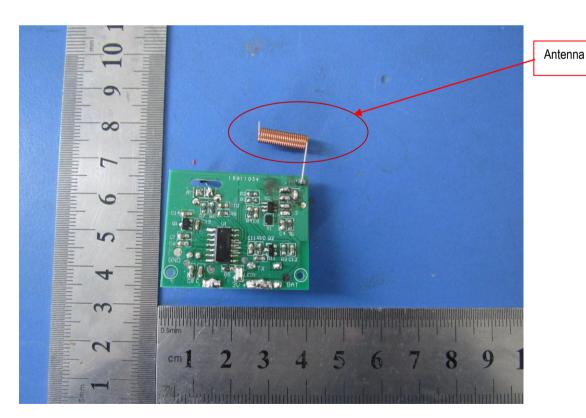


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#### Annex B.ii. Photograph EUT Internal Photos



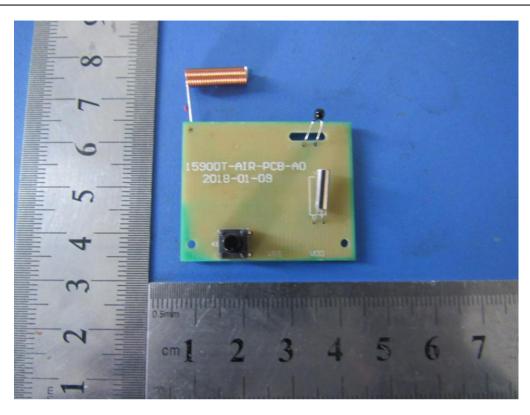
Uncover - Front View



EUT PCB- Front View



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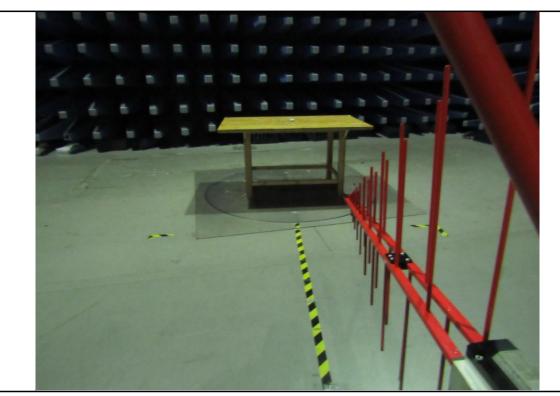


EUT PCB - Rear View



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### Annex B.iii. Photograph: Test Setup Photo



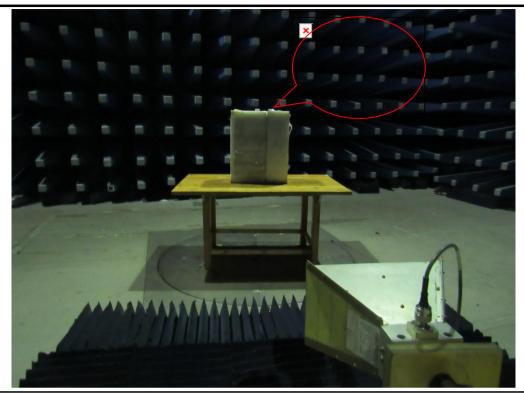
Radiated Emissions Test Setup Below 1GHz Front View



Radiated Emissions Test Setup Below 1GHz Rear View



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Radiated Emissions Test Setup Above 1GHz

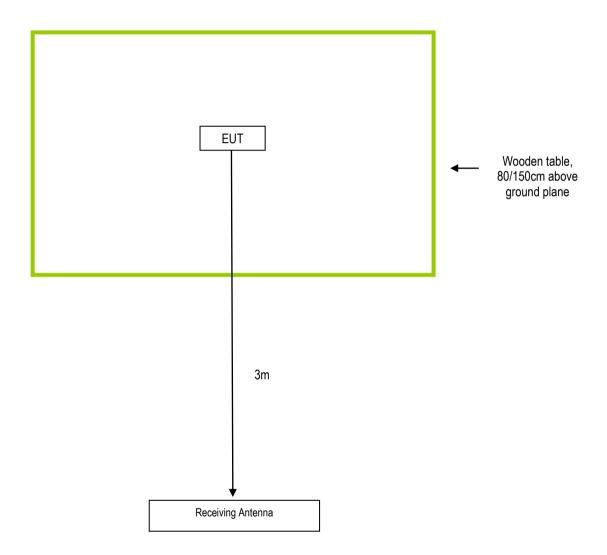


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# Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### Annex C.ii. TEST SET UP BLOCK

**Block Configuration Diagram for Radiated Emissions** 





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### Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description	Model	Calibration Due Date
N/A	N/A	N/A	N/A



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# Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment



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# Annex E. DECLARATION OF SIMILARITY

N/A