

# Test Report of FCC CFR 47 Part 15 Subpart C

On Behalf of

**Zhuhai Topland Technologies, Ltd.**

Ha Gong Da Rd-1., Industrial Park, R&D Bldg, Tang Jia Wan,  
Zhuhai, PRC 519085.

Product Name:	<b>Portable Water Heater-Precision Cooker</b>
Model/Type No.:	<b>Mini</b>
Trade Name:	<b>N/A</b>
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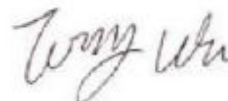
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HONGCAI TESTING

## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment Under Test (EUT)

#### Client Information

Applicant:	Zhuhai Topland Technologies, Ltd.
Address of Applicant:	Ha Gong Da Rd-1., Industrial Park, R&D Bldg, Tang Jia Wan, Zhuhai, PRC 519085
Manufacturer:	Zhuhai Topland Technologies, Ltd.
Address of Manufacturer:	Ha Gong Da Rd-1., Industrial Park, R&D Bldg, Tang Jia Wan, Zhuhai, PRC 519085

#### General Description of E.U.T

Items	Description
EUT Description:	Portable Water Heater-Precision Cooker
Trade Name:	N/A
Model No.:	Mini
BT Version	BLE V4.0
Frequency Band:	2402MHz~2480MHz,
Channel Spacing:	2MHz
Number of Channels:	40 Channels
Type of Modulation:	GFSK
Antenna Type:	Integral Antenna
Antenna Gain	0.5dBi
Power Supply:	Input: AC 120V 60Hz
Adapter Information:	N/A

Remark: \* The test data gathered are from the production sample provided by the manufacturer.  
\* This report is used for BT module of TL-2.3, so only provide the emissions data of EUT.

## 1.2 Test standards

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices

KDB558074 D01 V03r03: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247

RSS-GEN Issue 4: General Requirements for Compliance of Radio Apparatus

RSS-210 Issue 8: Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment

RSS 247 Issue 1: Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

## 1.3 Test Facility

All measurement required was performed at laboratory of Shenzhen CTL Testing Technology Co., Ltd.

Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 22/EN 55022 requirements.

### **FCC – Registration No.: 970318**

Shenzhen CTL Testing Technology Co., Ltd. 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 970318, December, 2013.

### **IC Registration No.: 9618B**

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 9618B on November 13, 2013.

## 2. SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

### 2.3 General Test Procedures

Conducted Emissions: The EUT is placed on the turntable, which is 0.8 m above ground plane According to the requirements in ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak detector mode.

Radiated Emissions: The EUT is a placed on as turntable, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in ANSI C63.10-2013.

### 2.4 Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Conducted spurious emission 9KHz-40 GHz	+/- 2.20 dB
Power Line Conducted Emission	+/- 3.20 dB
Radiated Emission	+/- 4.32 dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 2.6 List of Measuring Equipments Used

No.	Instrument no.	Equipment	Manufacturer	Model No.	S/N	Last Calibration	Due Calibration
1	BCT-EMC001	EMI Test Receiver	R&S	ESCI	100687	2015-7-25	2016-8-24
2	BCT-EMC002	EMI Test Receiver	R&S	ES PI	100097	2015-11-1	2016-10-31
3	BCT-EMC003	Amplifier	HP	8447D	1937A02492	2015-7-25	2016-8-24
4	BCT-EMC018	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9163	9163-324	2015-7-25	2016-8-24
5	BCT-EMC021	Triple-Loop Antenna	EVERFINE	LLA-2	711002	2015-11-1	2016-10-31
6	BCT-EMC026	RF POWER AMPLIFIER	FRANKONIA	FLL-75	1020A1109	2015-7-25	2016-8-24
7	BCT-EMC029	6DB Attenuator	FRANKONIA	N/A	1001698	2015-7-25	2016-8-24
8	BCT-EMC032	10dB attenuator	ELECTRO-METRICS	EM-7600	836	2015-7-25	2016-8-24
9	BCT-EMC036	Spectrum Analyzer	R&S	FSP	100397	2015-11-1	2016-10-31
10	BCT-EMC037	Broadband preamplifier	SCHWARZBECK	BBV9718	9718-182	2015-7-25	2016-8-24
11	BCT-EMC039	Horn Antenna	SCHWARZBECK	BBHA 9120D	0437	2015-7-25	2016-8-24
12	BCT-EMC038	Horn Antenna	SCHWARZBECK	BBHA9170	0483	2015-7-25	2016-8-24
13	BCT-EMC050	Pulse power sensor	Anritsu	MA2411B	110553	2015-11-1	2016-10-31
14	BCT-EMC050	Power Meter	Anritsu	ML2487B	100345	2015-11-1	2016-10-31

### 3. SUMMARY OF Test RESULTS

FCC/IC Rules	Description of Test	Result
FCC §15.207 IC RSS-GEN Clause 7.2.2	AC Power Line Conducted Emission	Pass
FCC §15.247 (d) IC RSS-247 Issue1 Clause 5.5	Conducted Spurious Emission	Pass
FCC §15.205 and §15.209 IC RSS-210 Clause 2.6 (Transmitter) IC RSS-GEN Clause 6 (Receiver)	Radiated Spurious Emission	Pass
FCC§15.247 (d) and §15.205 and §15.209 IC RSS-247 Issue1 Clause 5.5	Unwanted Emissions	Pass





## 4. Test OF AC POWER LINE CONDUCTED EMISSION

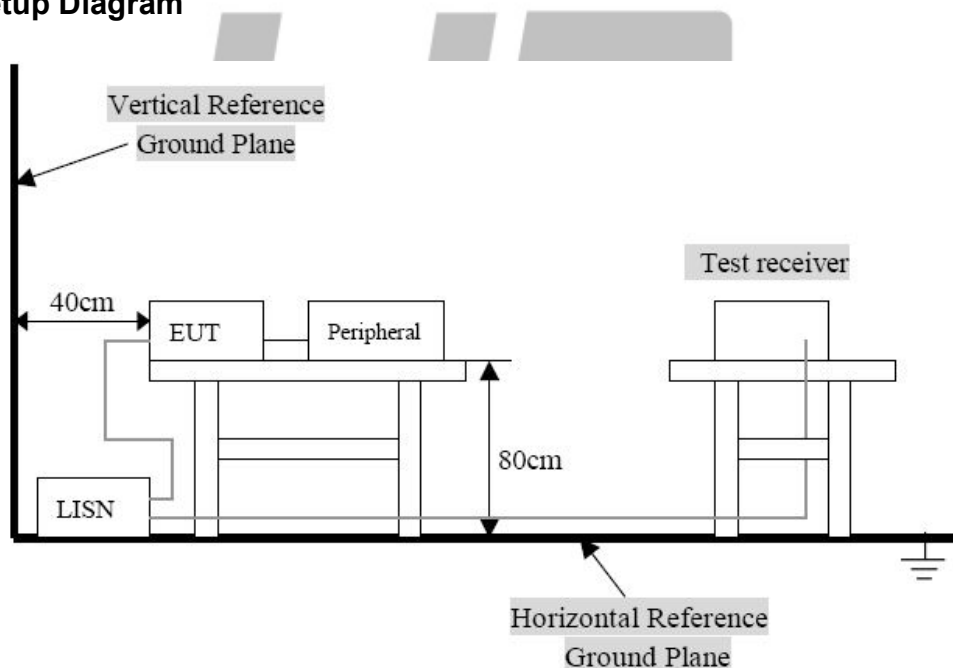
### 4.1 Applicable standard

Refer to FCC §15.207 and IC RSS-GEN Clause 7.2.2

For a Low-power Radio-frequency Device is designed to be connected to the 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 below limits table.

Frequency Range (MHz)	Limits ( dBuV)	
	Quasi-Peak	Average
0.150~0.500	66~56	56~46
0.500~5.000	56	46
5.000~30.00	60	50

### 4.2 Test Setup Diagram



Remark: PASS

### 4.3 Test Result

Temperature ( °C ) : 23~25	EUT: Portable Water Heater-Precision Cooker
Humidity (%RH) : 45~58	M/N: Mini
Barometric Pressure ( mbar ) : 950~1000	Operation Condition: Tx Mode

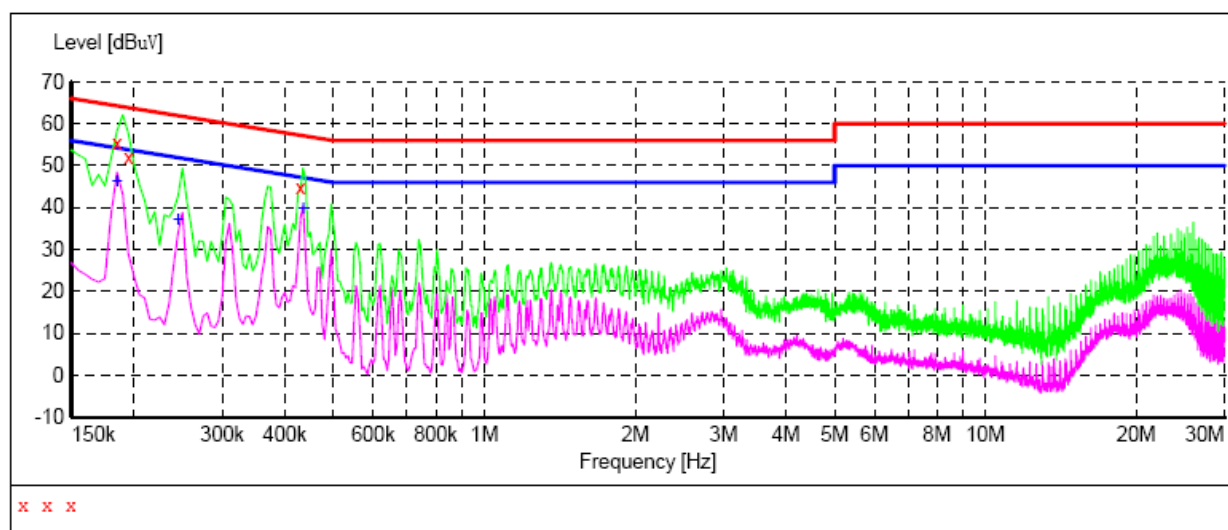


# Conducted Emission Test Data

EUT: Portable Water Heater-Precision Cooker  
M/N: Mini  
Operating Condition: Tx Mode  
Test Site: Shielded Room  
Operator: Li  
Test Specification: AC 120V/60Hz  
Comment: Live Line  
Start of Test: Tem:25°C Hum:50%

## SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 150K-30M Voltage



## MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.185000	55.40	11.7	64	8.9	QP	L1	GND
0.195000	52.00	11.3	64	11.8	QP	L1	GND
0.430000	44.70	10.5	57	12.6	QP	L1	GND

## MEASUREMENT RESULT:

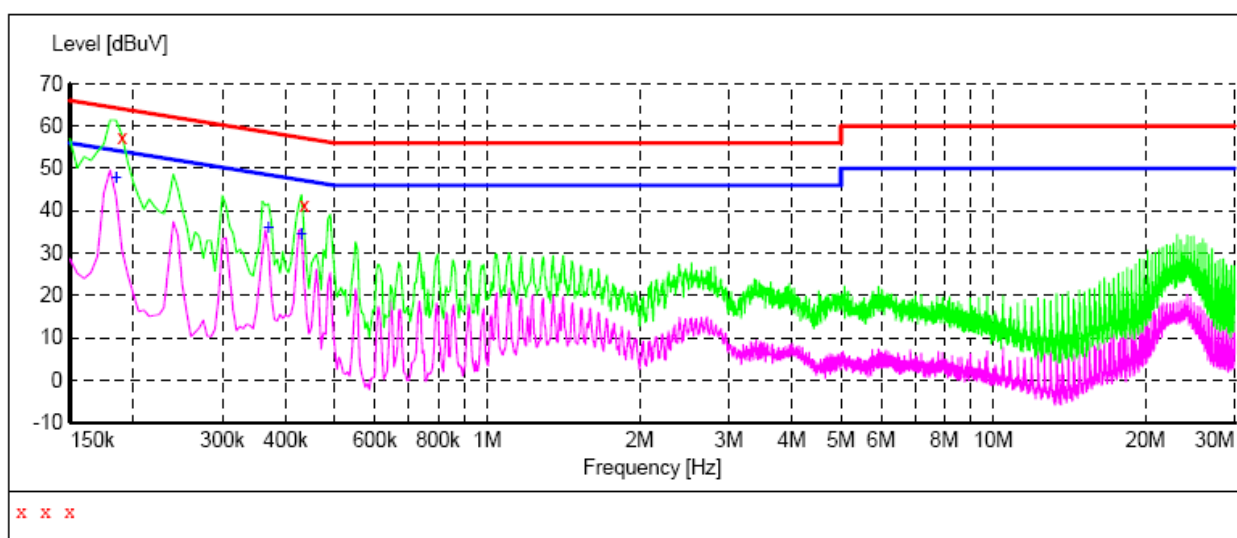
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.185000	46.30	11.7	54	8.0	AV	L1	GND
0.245000	37.10	11.0	52	14.8	AV	L1	GND
0.435000	40.00	10.5	47	7.2	AV	L1	GND

## Conducted Emission Test Data

EUT: Portable Water Heater-Precision Cooker  
M/N: Mini  
Operating Condition: Tx Mode  
Test Site: Shielded Room  
Operator: Li  
Test Specification: AC 120V/60Hz  
Comment: Neutral Line  
Start of Test: Tem:25°C Hum:50%

### SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 150K-30M Voltage



### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.190000	57.30	11.5	64	6.7	QP	N	GND
0.435000	41.30	10.5	57	15.9	QP	N	GND

### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.185000	47.70	11.7	54	6.6	AV	N	GND
0.370000	35.90	10.6	49	12.6	AV	N	GND
0.430000	34.40	10.5	47	12.9	AV	N	GND

## 5. Test of Conducted Spurious Emission

### 5.1 Applicable standard

Refer to FCC §15.247 (d) and IC RSS-247 Issue1 Clause 5.5.

KDB 558074 v03r03 – Section 11.3

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. In addition, radiated emissions that fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209.

### 5.2 EUT Setup



### 5.3 Test Equipment List and Details

See section 2.5.

### 5.4 Test Procedure

The transmitter output was connected to a spectrum analyzer. The spectrum from 30 MHz to 26.5 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band. The parameter of the spectrum analyzer was set as below:

1. Set start frequency to DTS channel edge frequency.
2. Set stop frequency so as to encompass the spectrum to be examined.
3. Set RBW = 100 kHz.
4. Set VBW  $\geq$  300 kHz.
5. Detector = peak.
6. Trace Mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
9. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

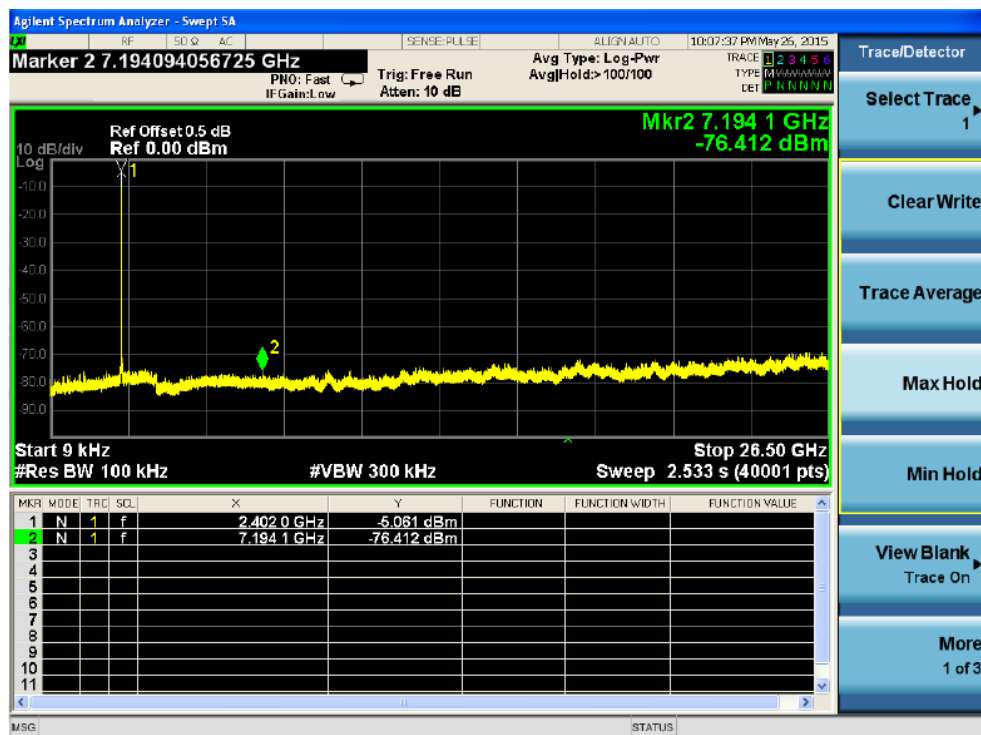
## 5.5 Test Result

Temperature ( °C ) : 22~23	EUT: Portable Water Heater-Precision Cooker
Humidity (%RH) : 50~54	M/N: Mini
Barometric Pressure ( mbar ) : 950~1000	Operation Condition: TX Mode

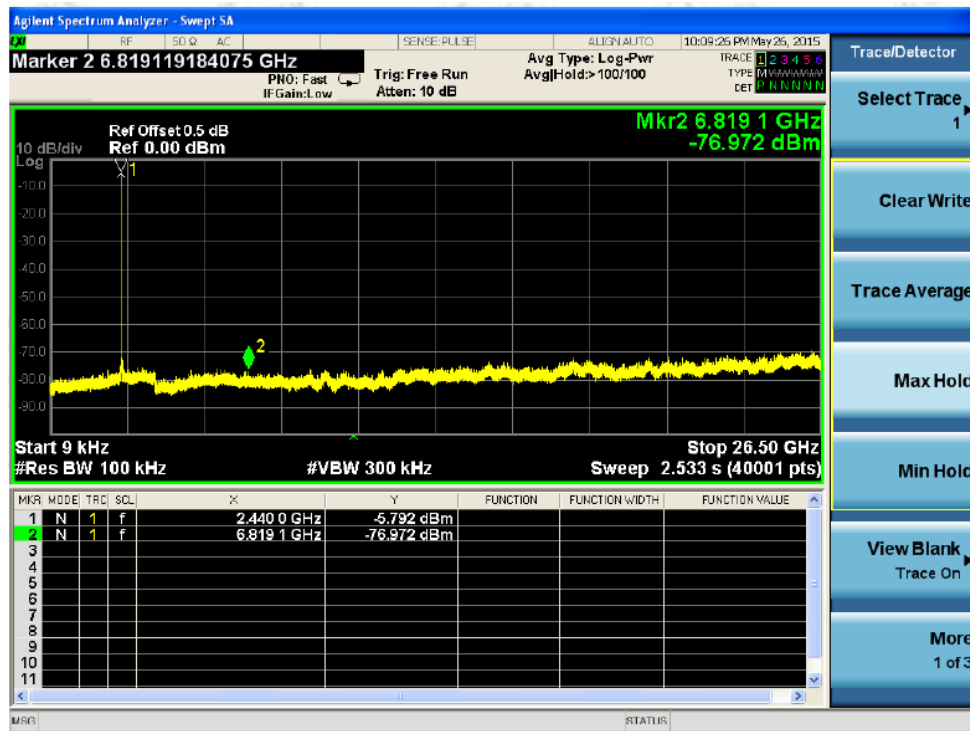
PASS

GFSK mode

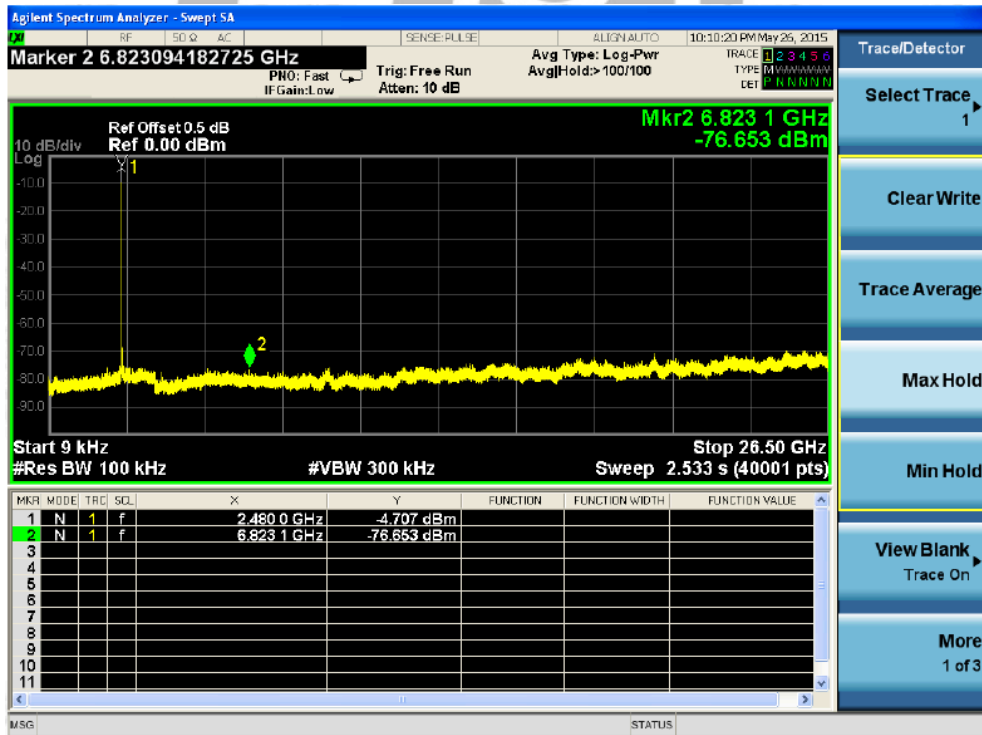
CH Low



## CH Mid



## CH High



## 6. Test of Radiated Spurious Emission

### 6.1 Radiated Spurious Emission

Refer to FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter) & IC RSS-GEN Clause 6 (Receiver)

KDB 558074 v03r03 – Section 12.1, 12.2.7

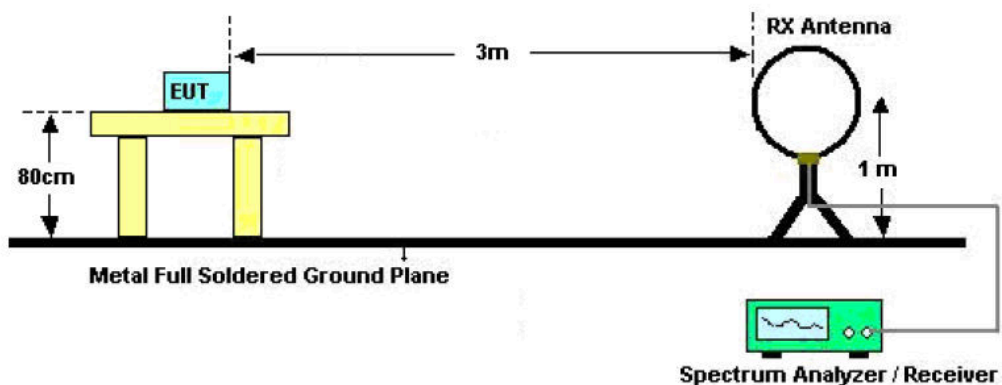
#### 6.1.1 Limits

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

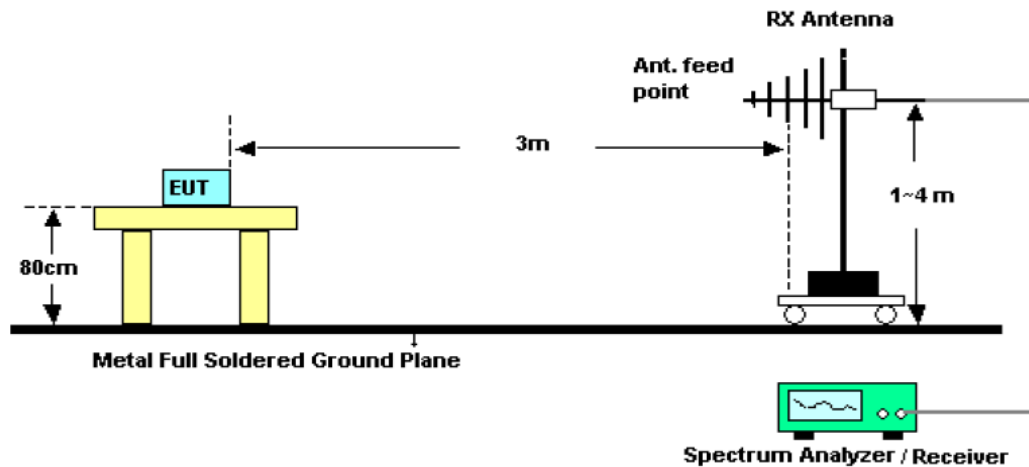
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

#### 6.1.2 EUT Setup

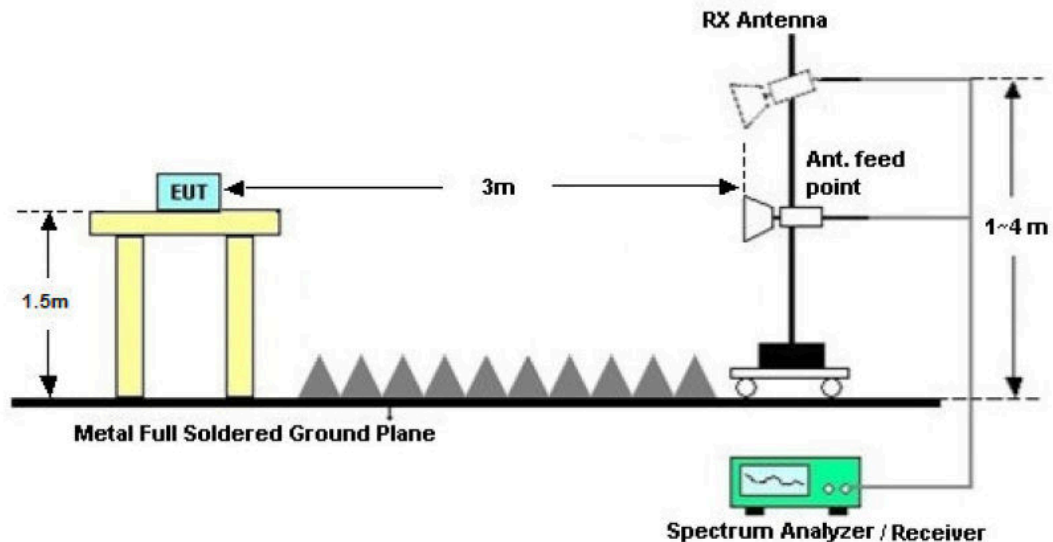
For radiated emission below 30MHz



For radiated emission from 30MHz to 1GHz



For radiated emission from above 1GHz



### 6.1.3 Test Procedure

KDB 558074 v03r03 – Section 12.1, 12.2.7

#### Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Set RBW = 120kHz(for emissions from 30MHz-1GHz)
3. Detector = Quasi-Peak
4. Trace Mode = max hold.
5. Sweep = auto couple.
6. Trace was allowed to stabilize



### **Peak Field Strength Measurements**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Set RBW = 1MHz
3. Set VBW = 3MHz
4. Detector = Peak
5. Trace Mode = max hold.
6. Sweep = auto couple.
7. Trace was allowed to stabilize

### **Average Field Strength Measurements**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Set RBW = 1MHz
3. Set VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points=1001 (  $\geq 2 \times \text{span/RBW}$  )
6. Sweep = auto couple.
7. Trace (RMS) averaging was performed over at least 100 traces

#### **NOTE:**

1. Configure the EUT according to ANSI C63.10-2013
2. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization.
4. For band edge emission, the antenna tower was scan (from 1 M to 4 M) and then the turn table was rotated (from 0 degree to 360 degrees) to find the maximum reading.

#### **6.1.4 Test Result**

Temperature ( °C ) : 22~23	EUT: Portable Water Heater-Precision Cooker
Humidity (%RH ) : 50~54	M/N: Mini
Barometric Pressure ( mbar ) : 950~1000	Operation Condition: Normal operation & TX Mode

## WORST-CASE RADIATED EMISSION BELOW 30 MHz

Normal operating Mode:

Frequency	Meter Reading	Antenna Factor	Cable Loss	Emission Levels	Limits	Margin	Detector Mode
(MHz)	(dB $\mu$ V)	(dB/M)	(dB)	(dB $\mu$ V/M)	(dB $\mu$ V/M)	(dB)	PK/QP
5.89	22.58	8.25	1.05	29.78	67	-37.22	QP
14.8	21.4	9.09	1.21	29.28	49.5	-20.22	QP
21.58	21.61	9.27	1.1	29.78	49.5	-19.72	QP
24.71	21.47	8.45	1.68	28.24	49.5	-21.26	QP

## WORST-CASE RADIATED EMISSION BELOW 1 GHz

Normal operating Mode:

Horizontal

Frequency	Meter Reading	Tansd	Limits	Margin	Detector Mode
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/M)	(dB)	PK/QP
36.79	27.83	13.63	40	-12.17	QP
86.29	25.63	13.83	40	-14.37	QP
101.81	27.83	16.13	43.5	-15.67	QP
187.17	25.63	13.73	43.5	-17.87	QP
549.95	32.73	20.93	46	-13.27	QP
873.93	39.03	25.43	46	-6.97	QP
N/A	----	----	----	----	----

Vertical

Frequency	Meter Reading	Tansd	Limits	Margin	Detector Mode
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/M)	(dB)	PK/QP
33.89	35.4100	13.81	40	-4.59	QP
107.61	33.7100	15.51	43.5	-9.79	QP
121.19	36.0100	13.41	43.5	-7.49	QP
134.77	37.6100	11.81	43.5	-5.89	QP
148.35	36.1100	11.61	43.5	-7.39	QP
922.41	38.5100	25.91	46	-7.49	QP
N/A	----	----	----	----	----

Note: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier  
Margin = Level-Limit

## WORST-CASE RADIATED EMISSION ABOVE 1 GHz

### GFSK TX (CH Low)

Channel Low (2402MHz)								
Maximum Frequency (MHz)	Polarity and Level					Limit (dBμV/m)	Margin (dBμV/m)	Mark (P/Q/A)
	Polarity	Height (m)	Reading dBμV	Transd	Result dBμV/m			
1385.21	H	1	46.07	-7.77	38.1	74	-35.9	P
			33.16	-7.77	25.19	54	-28.81	A
1368.33	V	1	46.16	-7.77	38.19	74	-35.81	P
			32.54	-7.77	24.57	54	-29.43	A
2402	H	1	86.04	-6.27	79.57	----	----	P
			79.34	-6.27	72.87	----	----	A
2402	V	1	84.04	-6.27	77.57	----	----	P
			78.05	-6.27	71.58	----	----	A
4804	H	1	41.1	0.72	41.62	74	-32.38	P
			30.07	0.72	30.59	54	-23.41	A
4804	V	1	42.51	0.72	43.03	74	-30.97	P
			30.02	0.72	30.54	54	-23.46	A
7206	H	1	39.95	7.61	47.36	74	-26.64	P
			30.43	7.61	37.84	54	-16.16	A
7206	V	1	39.95	7.61	47.36	74	-26.64	P
			30.26	7.61	37.67	54	-16.33	A
11145.34	----	----	----	----	----	----	----	----
16327.65	----	----	----	----	----	----	----	----
25376.32	----	----	----	----	----	----	----	----

- Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier  
Margin = Level-Limit  
Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value
2. Data of measurement within this frequency range shown “-” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW=3MHz.
4. The test limit distance is 3m limit

## GFSK TX (CH Middle)

Channel Middle (2440MHz)								
Maximum Frequency (MHz)	Polarity and Level					Limit (dBμV/m)	Margin (dBμV/m)	Mark (P/Q/A)
	Polarity	Height (m)	Reading dBμV	Transd	Result dBμV/m			
1311.67	H	1	45.63	-8.03	37.4	74	-36.6	P
			34.24	-8.03	26.01	54	-27.99	A
1311.67	V	1	46.21	-8.03	37.98	74	-36.02	P
			34.94	-8.03	26.71	54	-27.29	A
2440	H	1	86.41	-6.17	80.04	----	----	P
			78.32	-6.17	71.95	----	----	A
2440	V	1	85.43	-6.17	79.06	----	----	P
			77.47	-6.17	71.1	----	----	A
4880	H	1	40.97	0.95	41.72	74	-32.28	P
			30.84	0.95	31.59	54	-22.41	A
4880	V	1	42.45	0.95	43.2	74	-30.8	P
			31.84	0.95	32.59	54	-21.41	A
7320	H	1	39.61	7.68	47.09	74	-26.91	P
			31.04	7.68	38.52	54	-15.48	A
7320	V	1	40.28	7.68	47.76	74	-26.24	P
			30.93	7.68	38.41	54	-15.59	A
11238.52	----	----	----	----	----	----	----	----
16327.71	----	----	----	----	----	----	----	----
25376.58	----	----	----	----	----	----	----	----
Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier Margin = Level-Limit Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value 2. Data of measurement within this frequency range shown “-” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW=3MHz. 4. The test limit distance is 3m limit								

## GFSK TX (CH High)

Channel High (2480MHz)								
Maximum Frequency (MHz)	Polarity and Level					Limit (dBμV/m)	Margin (dBμV/m)	Mark (P/Q/A)
	Polarity	Height (m)	Reading dBμV	Transd	Result dBμV/m			
1321.44	H	1	45.97	-8.03	37.74	74	-36.26	P
			33.87	-8.03	25.64	54	-28.36	A
1321.44	V	1	46.47	-8.03	38.24	74	-35.76	P
			33.98	-8.03	25.75	54	-28.25	A
2480	H	1	85.94	-6.08	79.66	----	----	P
			76.94	-6.08	70.66	----	----	A
2480	V	1	84.47	-6.08	78.19	----	----	P
			72.68	-6.08	66.4	----	----	A
4960	H	1	41.27	1.17	42.24	74	-31.76	P
			30.94	1.17	31.91	54	-22.09	A
4960	V	1	44.79	1.17	45.76	74	-28.24	P
			31.93	1.17	32.9	54	-21.1	A
7440	H	1	40.68	7.76	48.24	74	-25.76	P
			30.44	7.76	38	54	-16	A
7440	V	1	40.04	7.76	47.6	74	-26.4	P
			29.95	7.76	37.51	54	-16.49	A
11243.58	----	----	----	----	----	----	----	----
16327.45	----	----	----	----	----	----	----	----
25376.26	----	----	----	----	----	----	----	----

Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier  
Margin = Level-Limit  
Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value  
2. Data of measurement within this frequency range shown “-” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.  
3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW=3MHz.  
4. The test limit distance is 3m limit