

FCC TEST REPORT

Product : Smart Thermometer
Trade mark : WEBER
Model/Type reference : WEBER IGRILL 3
Report Number : 1609100326RFC-1
Date of Issue : September 28, 2016
FCCID : 2AHSR-WEBER
Test Standards : 47 CFR Part 15 Subpart C (2015)
Test result : PASS

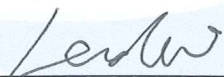
Prepared for:

Weber-Stephen Products LLC
1415 S. Roselle Road, Palatine, IL 60067, USA

Prepared by:

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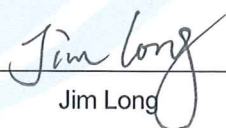
Tested by:



Leo Lai

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Date:

September 28, 2016



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Version

Version No.	Date	Description
V1.0	September 28, 2016	Original

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1 General Information

1.1 Client Information

Applicant:	Weber-Stephen Products LLC
Address of Applicant:	1415 S. Roselle Road, Palatine, IL 60067, USA
Manufacturer:	
Address of Manufacturer:	

1.2 General Description of EUT

Product Name:	Smart Thermometer	
Mode No.(EUT):	WEBER IGRILL 3	
Add Mode No.:	N/A	
Trade Mark:	WEBER	
EUT Supports Radios application:	Bluetooth V4.0 BLE 2.4GHz Wireless	
Power Supply:	AC adapter	N/A
	Vehicle adapter	N/A
	Battery	DC 4.5V (AA x 3)
USB Micro-B Plug cable:	N/A	
USB Charging cable:	N/A	
AUX cable:	N/A	
AC Adapter (1) line:	N/A	

1.3 Product Specification subjective to this standard

Frequency Range:	2402MHz ~ 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Sample Type:	Portable production
Test Power Grade:	Fixed
Test Software of EUT:	N/A
Antenna Type:	PCB
Antenna Gain:	3.3dBi
Test voltage:	DC 4.5V
Sample Received Date:	September 2, 2016
Sample tested Date:	September 2, 2016 to September 8, 2016

Operation Frequency each of channel**Bluetooth 4.0 BLE**

The sample supplied operated on 40 channels, nominally at 2402 -2480 MHz for transceiver. The channel is separated by 2 MHz channel spacing. The tests were carried out on 2402MHz, 2440MHz and 2480MHz of the frequency of the alignment range. 1, 19 and 39

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH39)	2480MHz

1.4 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	9976 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with modulation.

1.5 Description of Support Units

The EUT has been tested independently.

1.6 Test Location

All tests were performed at:

Compliance Certification Services (Shenzhen) Inc.

No.10-1 Mingkeda Logistics Park, No.18 Huanguan South RD. Guan lan Town, Baoan Distr, Shenzhen, Guangdong, China.

Compliance Certification Services (Shenzhen) Inc. has been accepted by the FCC, the FCC Registration Number is 441872.

Tested by: Darry Wu

1.7 Deviation from Standards

None.

1.8 Deviation from Standards

None.

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1.9 Abnormalities from Standard Conditions

None.

1.10 Other Information Requested by the Customer

None.

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

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 6.3 \times 10^{-8}$
2	RF power, conducted	± 0.52 dB
3	Spurious emissions, radiated (Below 1GHz)	± 5.3 dB
	Spurious emissions, radiated (Above 1GHz)	± 5.1 dB
4	Conduction emission (9KHz~150KHz)	± 3.8 dB
	Conduction emission (150KHz~30MHz)	± 3.4 dB
5	Temperature	± 0.64 °C
6	Humidity	± 2.8 %
7	Supply voltages	± 0.49 %

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2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	ANSI C63.10-2013	PASS
Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	N/A
Field Strength of the Fundamental Signal	47 CFR Part 15 Subpart C Section 15.249 (a)	ANSI C63.10-2013	PASS
Spurious Emissions	47 CFR Part 15 Subpart C Section 15.249 (a)/15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15 Subpart C Section 15.249(a)/15.205	ANSI C63.10-2013	PASS
20dB Occupied Bandwidth	47 CFR Part 15 Subpart C Section 15.215 (c)	ANSI C63.10-2013	PASS

Remark:

N/A: Not application, this EUT is powered by batteries.

3 Test results and Measurement Data

3.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
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.	
EUT Antenna:	
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.3dBi.	

3.2 Radiated Spurious Emissions

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

Test Method: ANSI C63.10

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

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

Test Setup:

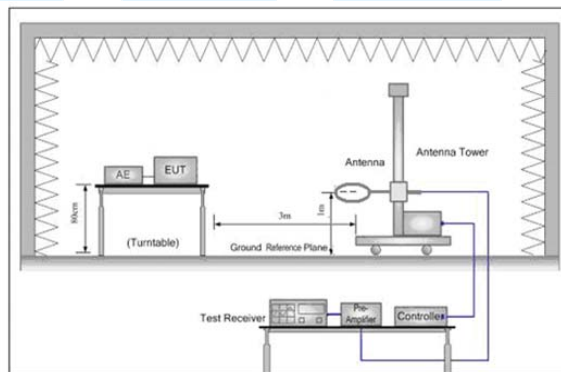


Figure 1. Below 30MHz

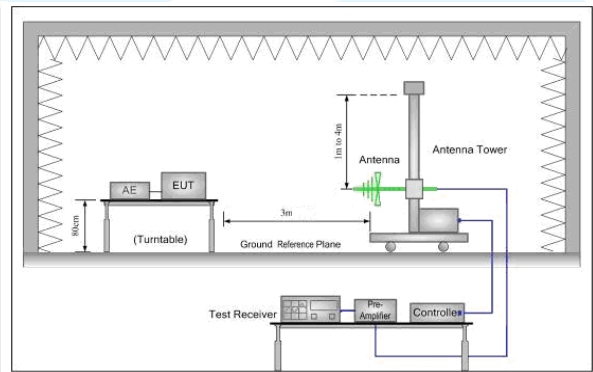


Figure 2. 30MHz to 1GHz

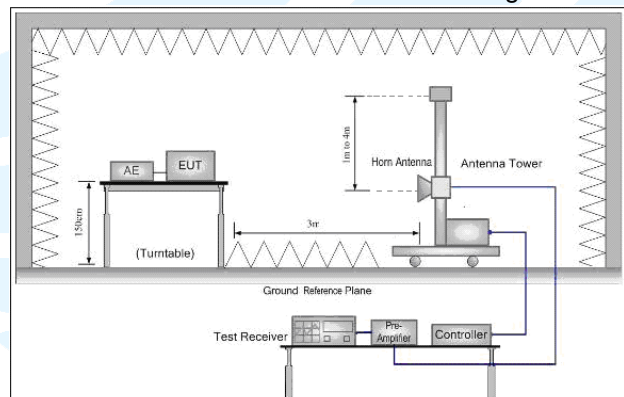


Figure 3. Above 1GHz

Test Procedure:**Below 1GHz test procedure as below:**

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotating table was turned from 0 degrees to 360 degrees to find the maximum reading.

The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

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

Test the EUT in the lowest channel, middle channel, the Highest channel

The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which is the worst case.

Repeat above procedures until all frequencies measured were complete.

Limit:

(Spurious Emissions)

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

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

Limit:

(Field strength of the fundamental signal)

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

Exploratory Test Mode:

Transmitting mode

Final Test Mode:

Pretest the EUT at Transmitting mode,
Only the worst case is recorded in the report.

Instruments Used:

Refer to section 5.11 for details

Test Results:

Pass

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Measurement Data Field Strength of the Fundamental Signal

Peak value:

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Result (Pass/Fail)	Antenna Polaxis
2402	94.3	114.00	-19.7	Pass	H
2440	95.2	114.00	-18.8	Pass	H
2480	96.0	114.00	-18.0	Pass	H

Average value:

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Result (Pass/Fail)	Antenna Polaxis
2402	75.6	94	-18.4	Pass	H
2440	76.2	94	-17.8	Pass	H
2480	76.9	94	-17.1	Pass	H

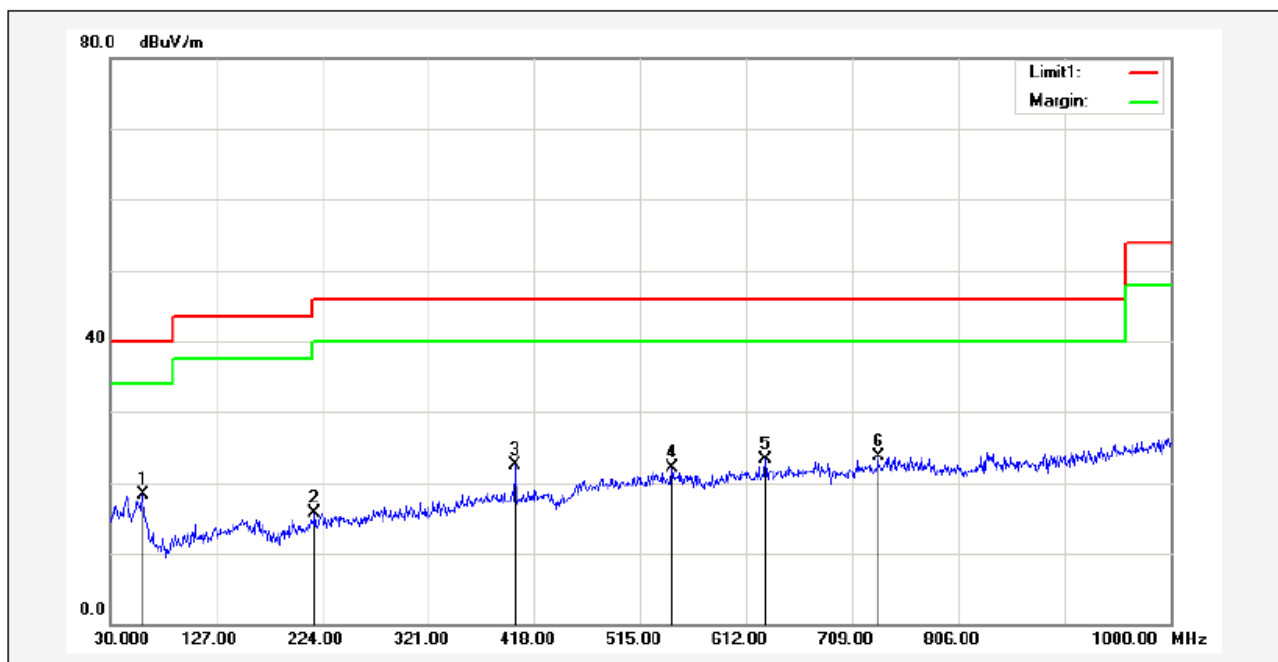
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Spurious Emissions

30MHz~1GHz

Test mode:	Transmitting (CH1)	Vertical
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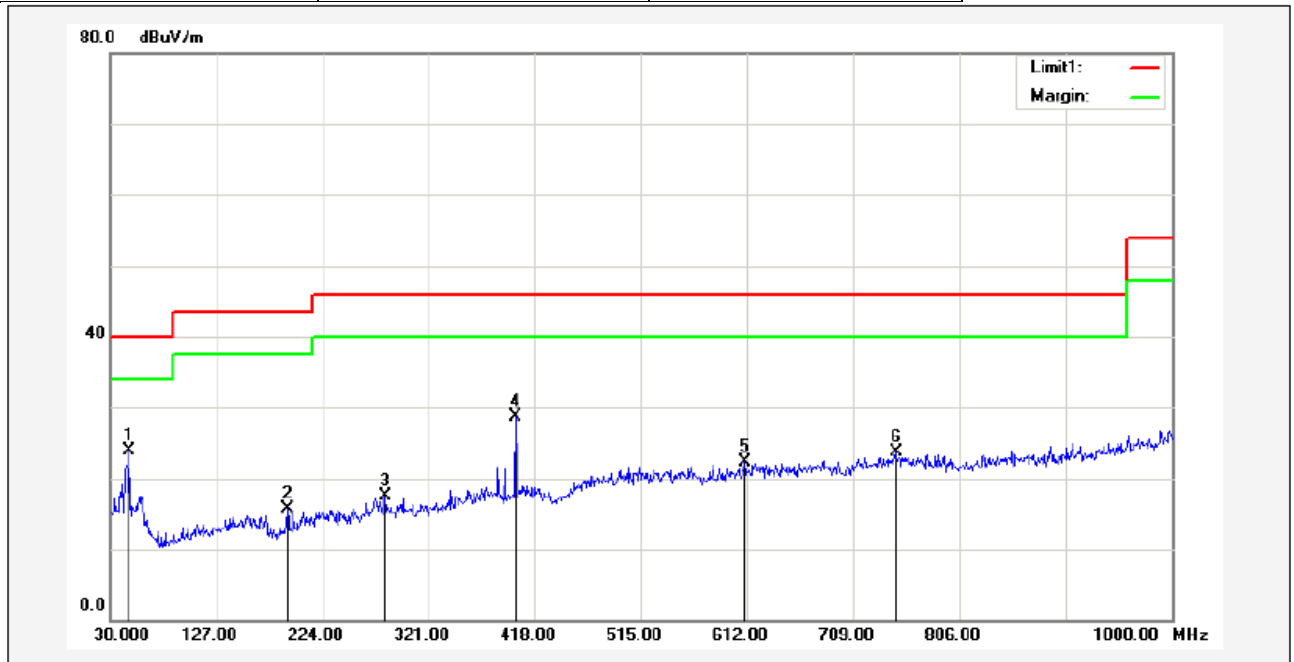


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	60.0700	31.64	-13.30	18.34	40.00	-21.66			peak
2	217.2100	26.76	-11.00	15.76	46.00	-30.24			peak
3	400.5400	31.10	-8.59	22.51	46.00	-23.49			peak
4	544.1000	28.45	-6.41	22.04	46.00	-23.96			peak
5	629.4600	28.68	-5.45	23.23	46.00	-22.77			peak
6	732.2800	27.49	-3.81	23.68	46.00	-22.32			peak

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Test mode:	Transmitting (CH1)	Horizontal
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	47.4600	35.95	-12.02	23.93	40.00	-16.07			peak
2	191.9900	28.45	-12.80	15.65	43.50	-27.85			peak
3	281.2300	27.13	-9.71	17.42	46.00	-28.58			peak
4	400.5400	37.34	-8.59	28.75	46.00	-17.25			peak
5	610.0600	27.90	-5.65	22.25	46.00	-23.75			peak
6	747.8000	27.17	-3.53	23.64	46.00	-22.36			peak

Above 1GHz

Test mode:		Transmitting	Test channel:	Lowest		Remark:	Peak
ANT	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
H	1741.250	49.66	-6.39	43.27	74	-30.73	peak
H	2398.250	45.93	-2.91	43.02	74	-30.98	peak
H	3293.750	44.62	-1.39	43.23	74	-30.77	peak
H	4804.000	41.34	3.02	44.36	74	-29.64	peak
H	5512.000	40.79	4.88	45.67	74	-28.33	peak
H*	7206.000	40.21	9.29	49.50	74	-24.50	peak

Test mode:		Transmitting	Test channel:	Middle		Remark:	Peak
ANT	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
H	1740.250	50.16	-6.40	43.76	74.00	-30.24	peak
H	3173.750	43.78	-1.07	42.71	74.00	-31.29	peak
H	4607.250	41.13	3.70	44.83	74.00	-29.17	peak
H	4880.000	41.80	4.35	46.15	74.00	-27.85	peak
H	5993.750	40.50	6.08	46.58	74.00	-27.42	peak
H*	7320.000	40.49	8.01	48.50	74.00	-25.50	peak

Test mode:		Transmitting	Test channel:	Highest		Remark:	Peak
ANT	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
H	1728.500	49.66	-6.42	43.24	74.00	-30.76	peak
H	2398.250	45.93	-2.82	43.11	74.00	-30.89	peak
H	3173.750	44.62	-1.07	43.55	74.00	-30.45	peak
H	4960.000	41.34	3.62	44.96	74.00	-29.04	peak
H	5512.000	40.79	5.88	46.67	74.00	-27.33	peak
H*	7440.000	40.21	7.04	47.25	74.00	-26.75	peak

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Result = Receiver Reading - Correct Factor
Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor
- Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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3.3 Restricted bands around fundamental frequency

Test Requirement: 47 CFR Part 15C Section 15.209 and 15.205

Test Method: ANSI C63.10

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

Limit(band edge): Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Frequency	Limit (dB μ V/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
	74.0	Peak Value

Test Setup:

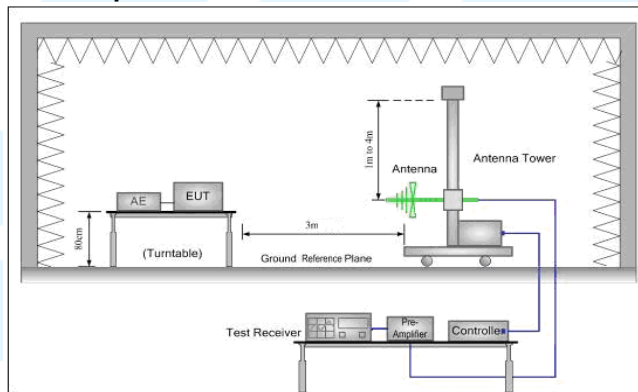


Figure 1. 30MHz to 1GHz

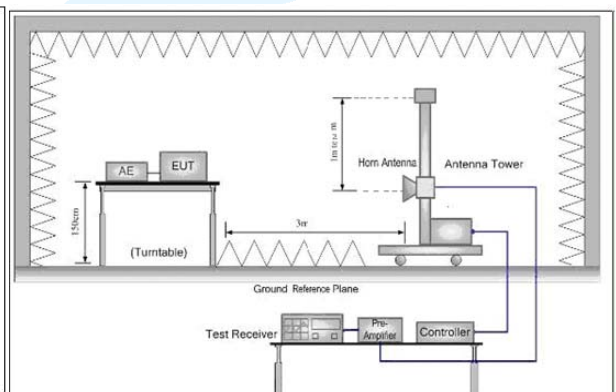


Figure 2. Above 1GHz

Test Procedure:

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

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

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- h. Test the EUT in the lowest channel,,the Highest channel
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
- j. Repeat above procedures until all frequencies measured was complete.

Exploratory Test Mode:

Final Test Mode:

Instruments Used:

Test Results:

Transmitting mode
Transmitting mode
Only the worst case is recorded in the report.
Refer to section 3 for details
Pass

Test plot as follows:

Test mode:		Transmitting	Test channel:	Lowest		Remark:	Peak
ANT	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
H	2379.400	50.68	-2.92	47.76	74.00	-26.24	peak
H	2379.400	37.04	-2.92	34.12	54.00	-19.88	AVG

Test mode:		Transmitting	Test channel:	Highest		Remark:	Peak
ANT	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
H	2507.200	51.52	-2.25	49.27	74.00	-24.73	peak
H	2507.200	37.23	-2.25	34.98	54.00	-19.02	AVG

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Result = Receiver Reading - Correct Factor

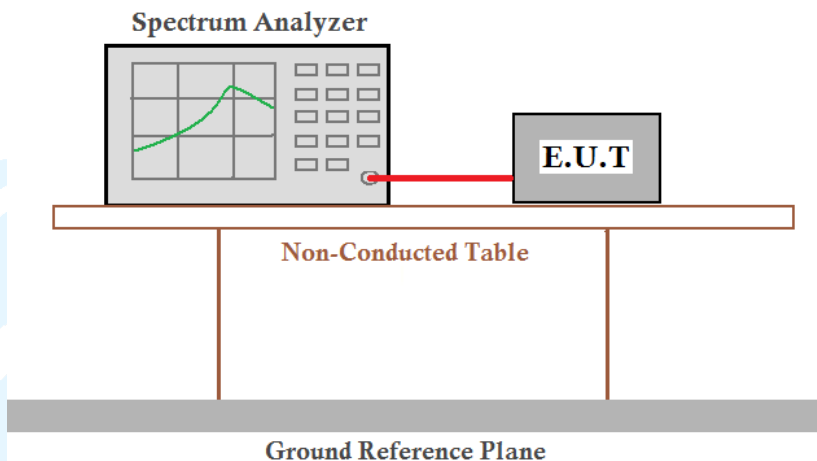
Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

3.4 20dB Bandwidth

Test Requirement: 47 CFR Part 15C Section 15.215

Test Method: ANSI C63.10

Test Setup:



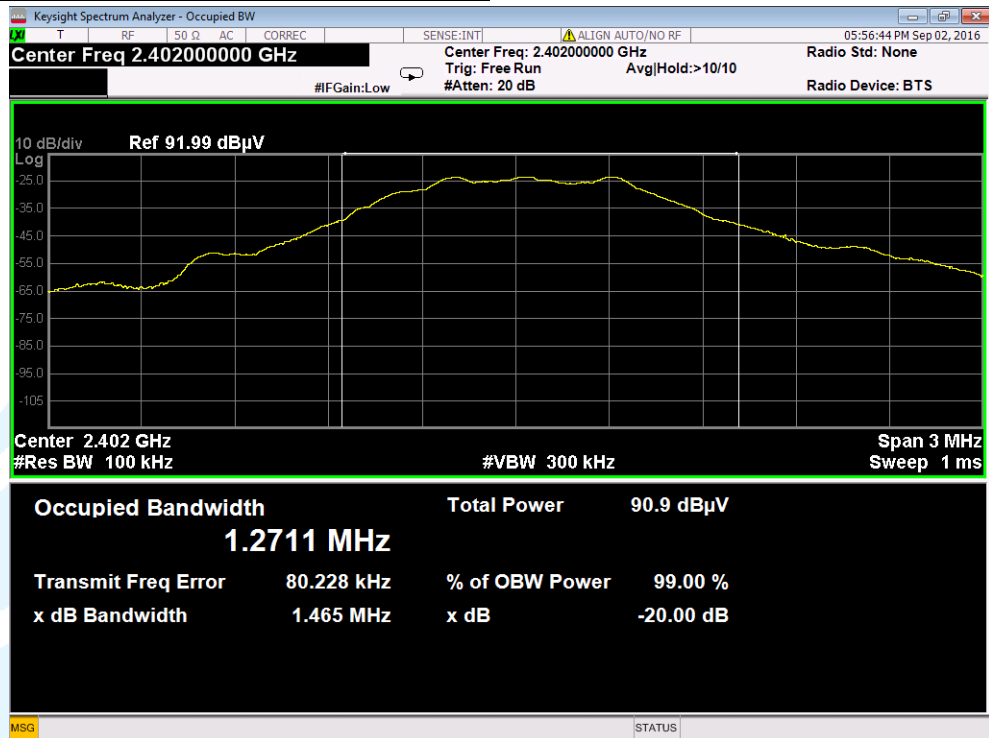
Limit: N/A
Exploratory Test Mode: Transmitter mode
Final Test Mode: GFSK
Instruments Used: Refer to section 3 for details
Test Results: Pass

Measurement Data

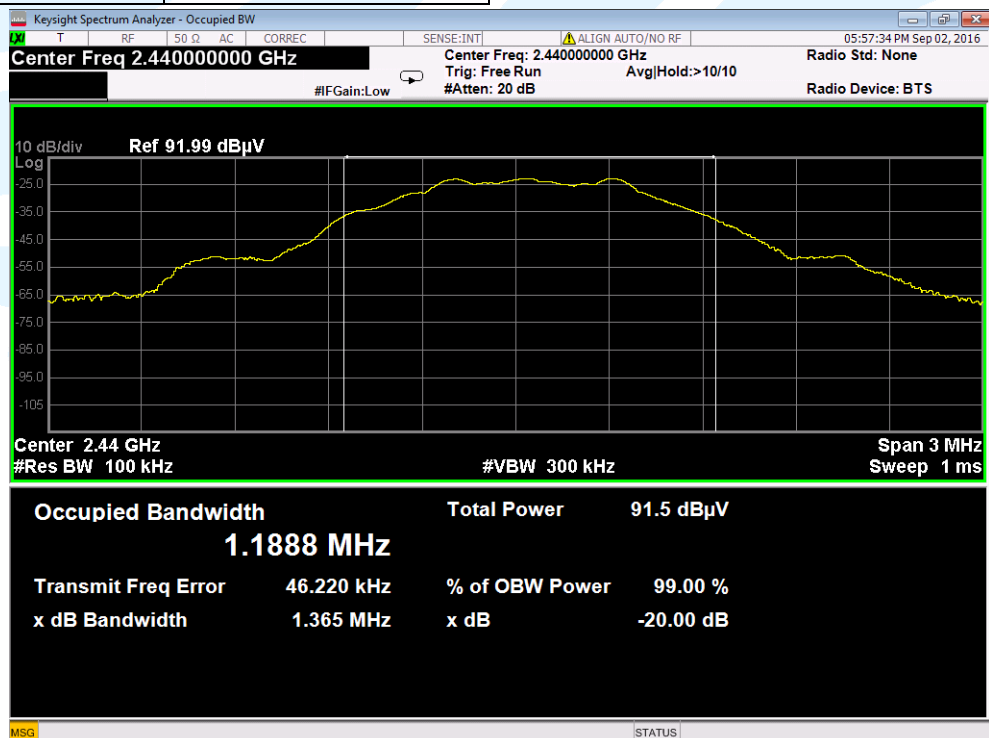
Test Channel	20dB bandwidth (MHz)	Results
Lowest	1.465	Pass
Middle	1.365	Pass
Highest	1.341	Pass

Test plot as follows:

Test channel:	Lowest
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Test channel:	Middle
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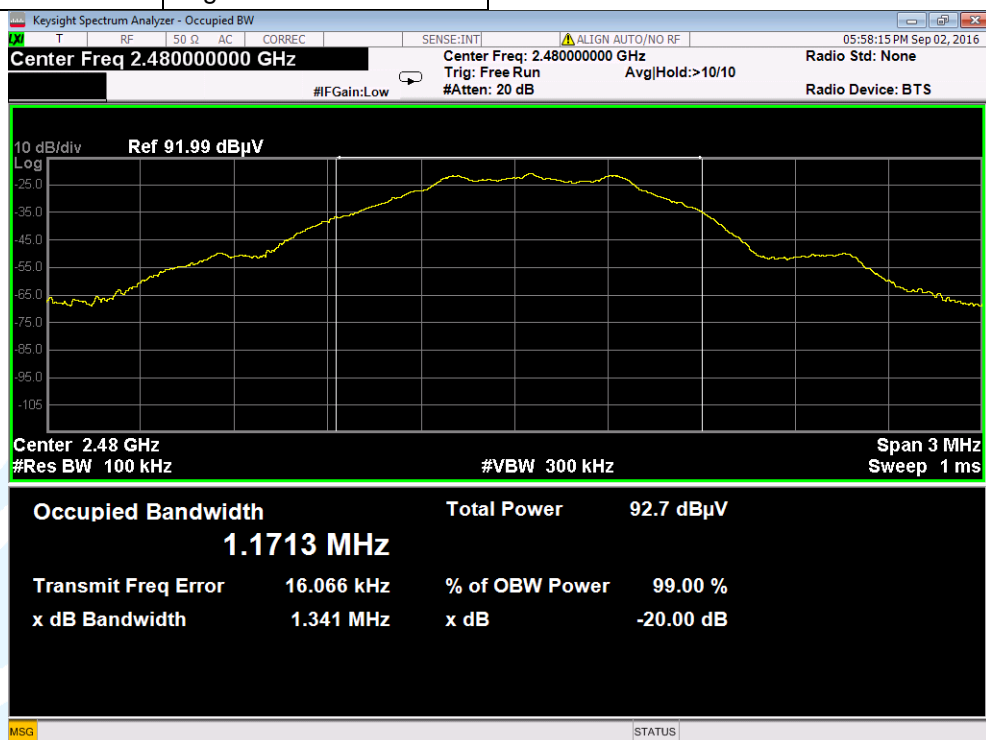


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Test channel:

Highest

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APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

See test photographs attached in Appendix 1 for the actual connections

APPENDIX 2 PHOTOGRAPHS OF EUT

Refer to Appendix 2 for EUT external and internal photographs.

*** End of Report ***

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