

# Global United Technology Services Co., Ltd.

Report No.: GTSE14110206401

# **FCC REPORT**

Applicant: Braeburn Systems LLC

Address of Applicant: 2215 Cornell Avenue Montgomery, Illinois 60538 United States

**Equipment Under Test (EUT)** 

Product Name: Humidity sensor

Model No.: 7330

**FCC ID:** 2ADX6-7330

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.249:2013

Date of sample receipt: November 26, 2014

**Date of Test:** February 02-06, 2015

**Date of report issued:** February 06, 2015

Test Result: PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report

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# 2 Version

Version No.	Date	Description
00	February 06, 2015	Original

Prepared By:	Edward. Pan	Date:	February 06, 2015
	Project Engineer		
Check By:	hank. yan	Date:	February 06, 2015
	Reviewer		

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# 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Pass: The EUT complies with the essential requirements in the standard.



# **5** General Information

# 5.1 Client Information

Applicant:	Braeburn Systems LLC	
Address of Applicant:	2215 Cornell Avenue Montgomery, Illinois 60538 United States	
Manufacturer: Computime Limited		
Address of Manufacturer:	17/F, Great Eagle Centre, 23 Harbour Road, Wanchai Hong Kong	
Factory:	Computime Electronics (shenzhen) Company Limited	
Address of Factory:	YueKenguanyu Industrial Park, Kangqiao Road 88#, Danzhutou Community, Nanwan Street Office Longgang District, Shenzhen, China	

# 5.2 General Description of EUT

Product Name:	Humiditysensor
Model No.:	7330
Operation Frequency:	915MHz
Modulation type:	GFSK
Antenna Type:	Integral antenna
Antenna gain:	0dBi
Power supply:	AC 24V

Shenzhen, China 518102

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#### 5.3 Test mode

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

#### Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	Х	Υ	Z
Field Strength(dBuV/m)	91.28	92.30	90.84

#### **Final Test Mode:**

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup":

Y axis (see the test setup photo)

# 5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC approval
FT	AC/AC Linear	ETE40310F	N/A	Verification
EI	Transformer	E1E40310F		vernication

## 5.5 Test Facility

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

#### • CNAS —Registration No.: CNAS L5775

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

## • FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

#### • Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

#### 5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

Tel: 0755-27798480 Fax: 0755-27798960

# 5.7 Other Information Requested by the Customer

None.

Global United Technology Services Co., Ltd.

2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District,

Shenzhen, China 518102

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# 6 Test Instruments list

Radi	Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 28 2014	Mar. 27 2015	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	Spectrum Analyzer	Agilent	E4440A	GTS533	July 01 2014	June 30 2015	
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	July 01 2014	June 30 2015	
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July 01 2014	June 30 2015	
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015	
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 28 2014	Mar. 27 2015	
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 29 2014	Mar. 28 2015	
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 29 2014	Mar. 28 2015	
11	Coaxial cable	GTS	N/A	GTS210	Mar. 29 2014	Mar. 28 2015	
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 29 2014	Mar. 28 2015	
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	July 01 2014	June 30 2015	
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July 01 2014	June 30 2015	
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015	
16	Band filter	Amindeon	82346	GTS219	Mar. 29 2014	Mar. 28 2015	

Con	Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	July 01 2014	June 30 2015	
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	July 01 2014	June 30 2015	
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	July 01 2014	June 30 2015	
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	July 01 2014	June 30 2015	
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	July 01 2014	June 30 2015	
6	Coaxial Cable	GTS	N/A	GTS227	July 01 2014	June 30 2015	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	

Gen	General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Barometer	ChangChun	DYM3	GTS257	July 08 2014	July 07 2015	



# 7 Test results and Measurement Data

# 7.1 Antenna requirement:

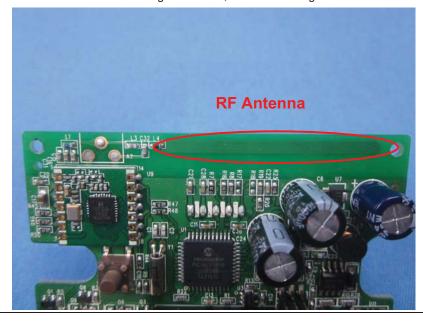
**Standard requirement:** FCC Part15 C Section 15.203

#### 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.

#### E.U.T Antenna:

The antenna is Internal Integral antenna, the best case gain of the antenna is 0dBi



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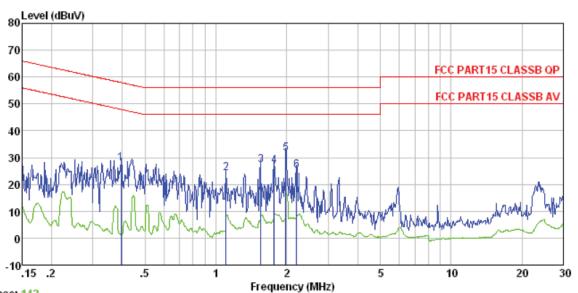
# 7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.4:2009						
Test Frequency Range:	150KHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9KHz, VBW=30KHz, St	weep time=auto					
Limit:		Limit (d	IBuV)				
	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logarithm	n of the frequency.					
Test setup:	Reference Plane						
	AUX Equipment  Test table/Insulation plane  Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC pow	rer				
Test procedure:	The E.U.T is connected to stabilization network (L.I.S. impedance for the measuri     The peripheral devices are	N.). This provides a 50 ng equipment.	ohm/50uH coupling				
	LISN that provides a 50ohr termination. (Please refer to photographs).	n/50uH coupling imped	lance with 50ohm				
	3. 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 C63.4: 2009 on conducted measurement.						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Pass						



#### Measurement data

Line:



Trace: 142

Site : Shielded room

: FCC PART15 CLASSB QP LISN-2013 LINE Condition

Job No. Test mode : 2064RF

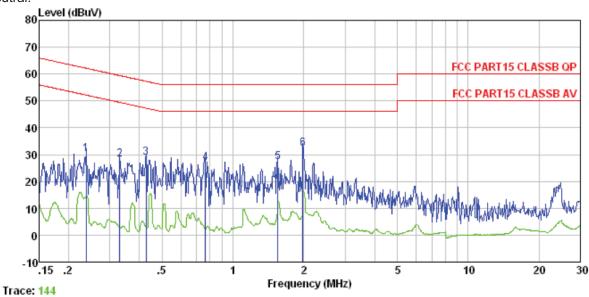
: Transmitting mode

Test Engineer: Mike

	Freq	Read Level	Cable Loss				Remark
	MHz	dBuV	₫B	dBu₹	dBuV	dB	
1 2 3 4 5 6	1.106 1.552 1.772 1.980	27. 63 24. 05 26. 81 26. 67 31. 37 25. 02	0.13 0.14 0.14 0.14	27.07 26.93 31.63	56.00 56.00 56.00 56.00	-31.69 -28.93 -29.07 -24.37	QP QP QP QP



#### Neutral:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 2064RF

Test mode : Transmitting mode

Test Engineer: Mike

F:	Read req Level	Cable Loss				Remark
]	MHz dBuV	dB	dBu√	-dBuV	dB	
2 0.3 3 0.4 4 0.5 5 1.	238 29.85 330 28.10 428 28.75 763 26.51 552 26.93 980 31.83	0.10 0.11 0.13 0.14	28. 92 26. 71 27. 16	59. 44 57. 29 56. 00 56. 00	-31.18 -28.37 -29.29 -28.84	QP QP QP QP

#### Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



# 7.3 Radiated Emission Method

FCC Part15 C S	Section 15 20	ıO.				
	36011011 13.20	13				
ANSI C63.4:2009						
30MHz to 10GHz						
Measurement Distance: 3m						
Frequency	Detector	RBW	VBW	Remark		
30MHz- 1GHz	Quasi-peal	k 120KHz	300KHz	Quasi-peak Value		
Above 1GHz	Peak Peak	1MHz 1MHz	3MHz 10Hz	Peak Value Average Value		
		-	-	<u> </u>		
Freque	ency	Limit (dBuV	/m @3m)	Remark		
902MHz~9	928MHz	94.0	0	Quasi-peak		
		Limit (dBuV	/m @3m)	Remark		
				Quasi-peak Value		
	-			Quasi-peak Value		
				Quasi-peak Value Quasi-peak Value		
				Average Value		
Above 1	GHz			Peak Value		
harmonics, sha fundamental or	ll be attenuate to the genera	ed by at least al radiated em	50 dB belov	w the level of the		
EUT	4m		Sea			
	30MHz to 10GH Measurement E Frequency 30MHz- 1GHz Above 1GHz  Freque 902MHz~9 902MHz-9 960MHz-9 960MHz-9 960MHz-1 Above 1 Emissions radia harmonics, shall fundamental or whichever is the Below 1GHz  EUT  Turn Table  Turn Table  Ground Plane	Measurement Distance: 3m  Frequency Detector 30MHz- Quasi-peal 1GHz Above 1GHz  Peak Peak  Frequency 902MHz~928MHz  Frequency 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz  Emissions radiated outside of harmonics, shall be attenuat fundamental or to the general whichever is the lesser attental Below 1GHz  Below 1GHz  Eut 4m  Ground Plane  Ground Plane	Measurement Distance: 3m    Frequency   Detector   RBW     30MHz-   Quasi-peak   120KHz     1GHz   Peak   1MHz     Above 1GHz   Peak   1MHz     Peak   1MHz	Measurement Distance: 3m  Frequency Detector RBW VBW 30MHz- Quasi-peak 120KHz 300KHz 1GHz Peak 1MHz 3MHz Above 1GHz Peak 1MHz 10Hz  Frequency Limit (dBuV/m @3m) 902MHz~928MHz 94.00  Frequency Limit (dBuV/m @3m) 30MHz-88MHz 40.00 88MHz-216MHz 43.50 216MHz-960MHz 46.00 960MHz-1GHz 54.00 Above 1GHz 54.00  Emissions radiated outside of the specified frequency harmonics, shall be attenuated by at least 50 dB below fundamental or to the general radiated emission limits whichever is the lesser attenuation.  Below 1GHz  Anten  Ground Plane  Ground Plane		



	Report No.: GTSE14110206401
	Antenna Tower  Horn Antenna  Spectrum  Analyzer  Turn  Table  A  A  Amplifier
Test Procedure:	<ol> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> <li>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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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.</li> </ol>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

### Measurement data:

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# 7.3.1 Field Strength of The Fundamental Signal

# Quasi-peak Value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
915.00	87.41	23.18	4.91	29.10	86.40	94.00	-7.60	Vertical
915.00	93.31	23.18	4.91	29.10	92.30	94.00	-1.70	Horizontal

# 7.3.2 Spurious emissions

## ■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
41.42	39.31	15.57	0.68	30.04	25.52	40.00	-14.48	Vertical
61.13	39.83	14.29	0.87	29.91	25.08	40.00	-14.92	Vertical
196.51	40.55	12.57	1.82	29.21	25.73	43.50	-17.77	Vertical
340.78	39.56	16.15	2.57	29.77	28.51	46.00	-17.49	Vertical
599.32	40.41	20.45	3.72	29.30	35.28	46.00	-10.72	Vertical
696.86	40.25	20.80	4.08	29.20	35.93	46.00	-10.07	Vertical
40.99	39.69	15.57	0.67	30.04	25.89	40.00	-14.11	Horizontal
61.35	40.18	14.16	0.87	29.91	25.30	40.00	-14.70	Horizontal
86.50	40.39	12.89	1.08	29.76	24.60	40.00	-15.40	Horizontal
230.10	39.72	13.62	2.02	29.48	25.88	46.00	-20.12	Horizontal
318.82	39.98	15.33	2.46	29.89	27.88	46.00	-18.12	Horizontal
629.48	41.04	20.57	3.83	29.27	36.17	46.00	-9.83	Horizontal



## ■ Above 1GHz

## Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1830.00	41.15	25.42	4.87	34.17	37.27	74.00	-36.73	Vertical
2745.00	43.31	28.24	5.71	33.61	43.65	74.00	-30.35	Vertical
3660.00	40.83	29.20	7.27	32.56	44.74	74.00	-29.26	Vertical
4575.00	46.26	31.47	8.40	31.97	54.16	74.00	-19.84	Vertical
5490.00	40.68	31.98	9.49	32.42	49.73	74.00	-24.27	Vertical
6405.00	33.63	33.49	10.78	32.11	45.79	74.00	-28.21	Vertical
7320.00	31.01	36.37	11.72	31.89	47.21	74.00	-26.79	Vertical
8235.00	32.38	36.76	12.47	31.73	49.88	74.00	-24.12	Vertical
9150.00	29.76	37.31	13.78	32.13	48.72	74.00	-25.28	Vertical
1830.00	45.17	25.42	4.87	34.17	41.29	74.00	-32.71	Horizontal
2745.00	39.64	28.24	5.71	33.61	39.98	74.00	-34.02	Horizontal
3660.00	38.57	29.20	7.27	32.56	42.48	74.00	-31.52	Horizontal
4575.00	35.18	31.47	8.40	31.97	43.08	74.00	-30.92	Horizontal
5490.00	32.25	31.98	9.49	32.42	41.30	74.00	-32.70	Horizontal
6405.00	31.15	33.49	10.78	32.11	43.31	74.00	-30.69	Horizontal
7320.00	30.26	36.37	11.72	31.89	46.46	74.00	-27.54	Horizontal
8235.00	29.53	36.76	12.47	31.73	47.03	74.00	-26.97	Horizontal
9150.00	30.34	37.31	13.78	32.13	49.30	74.00	-24.70	Horizontal



### Average value:

Average var								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1830.00	*							Vertical
2745.00	*							Vertical
3660.00	*							Vertical
4575.00	29.19	31.47	8.40	31.97	37.09	54.00	-16.91	Vertical
5490.00	*							Vertical
6405.00	*							Vertical
7320.00	*							Vertical
8235.00	*							Vertical
9150.00	*							Vertical
1830.00	*							Horizontal
2745.00	*							Horizontal
3660.00	*							Horizontal
4575.00	*							Horizontal
5490.00	*							Horizontal
6405.00	*							Horizontal
7320.00	*							Horizontal
8235.00	*							Horizontal
9150.00	*							Horizontal

# Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. (\*)The test result on peak is lower than average limit, then average measurement needn't be performed.



# 7.3.3 Bandedge emissions

All of the restriction bands were tested, and only the data of worst case was exhibited.

## Quasi-peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
902.00	28.36	23.12	4.87	29.10	27.25	46.00	-18.75	Horizontal
928.00	27.90	23.28	4.96	29.10	27.04	46.00	-18.96	Horizontal
902.00	27.73	23.12	4.87	29.10	26.62	46.00	-19.38	Vertical
928.00	29.27	23.28	4.96	29.10	28.41	46.00	-17.59	Vertical

#### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



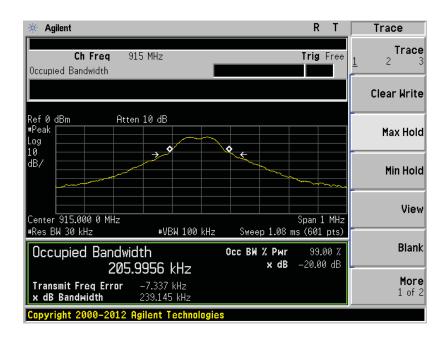
# 7.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.4:2009
Limit:	Operation Frequency range 902MHz ~ 928MHz
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

#### **Measurement Data**

Operation Frequency	20dB bandwidth(MHz)	Result
915MHz	0.239	Pass

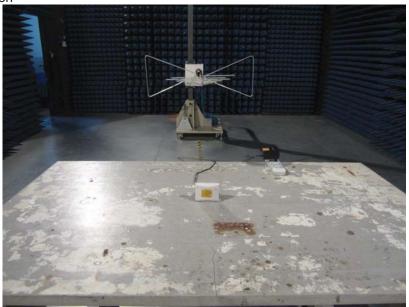
## Test plot as follows:

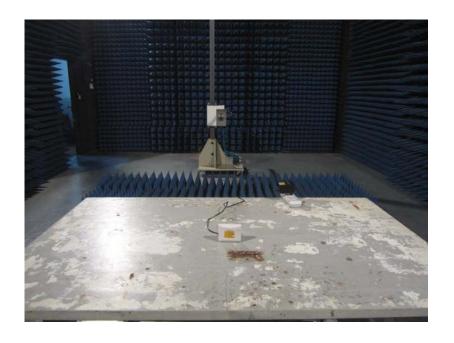




# 8 Test Setup Photo

Radiated Emission







Project No.: GTSE141102064RF

## Conducted Emission



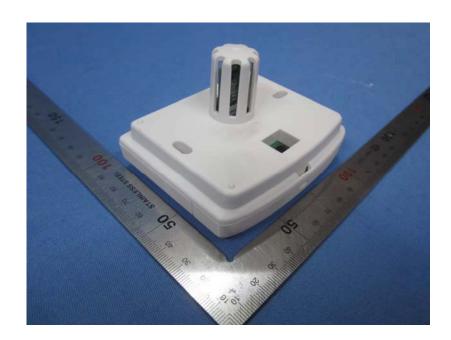


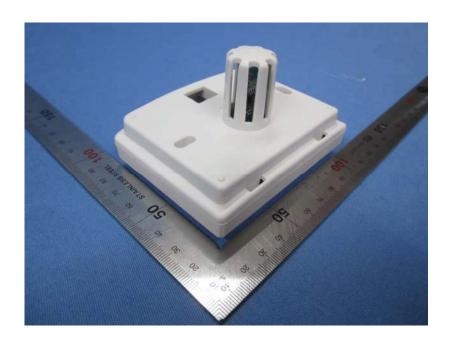
# 9 EUT Constructional Details











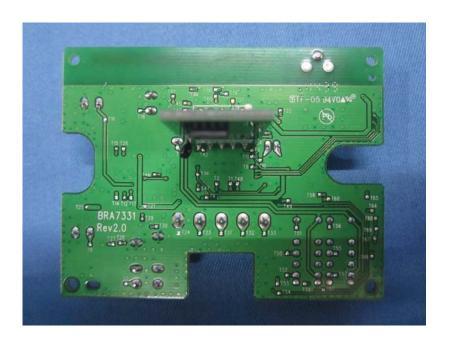




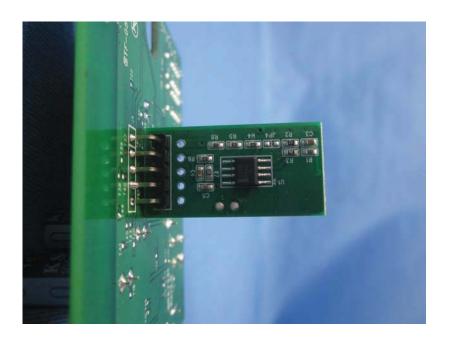


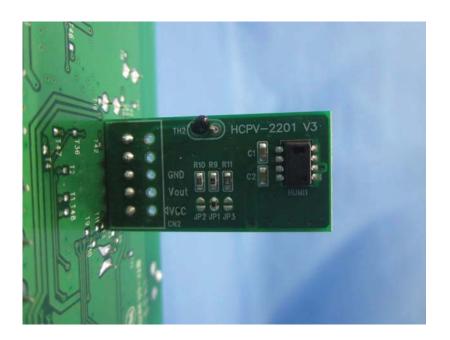












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