

Global United Technology Services Co., Ltd.

Report No.: GTSE15080159501

FCC REPORT

Applicant: HONG KONG EUREKA TECHNOLOGY CO

Address of Applicant: Unit213,2/F., Wellborne Commercial Centre 8 Java Road, North

Point, Hong Kong

Equipment Under Test (EUT)

Product Name: keyfinder

Model No.: R621, R631 FCC ID: 2AFPX-R621

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249:2014

Date of sample receipt: August 20, 2015

Date of Test: August 20-25, 2015

Date of report issued: August 26, 2015

Test Result: PASS *

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

Authorized Signature:

Robinson Lo Laboratory Manager

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	August 26, 2015	Original

Prepared By:	Sam. Gao	Date:	August 26, 2015	
	Project Engineer			
Check By:	hank. yan	Date:	August 26, 2015	
	Reviewer			



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Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	N/A
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.

Remark: Test according to ANSI C63.10 2013 and ANSI C63.4: 2014

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of	95%.



5 General Information

5.1 Client Information

Applicant:	HONG KONG EUREKA TECHNOLOGY CO	
Address of Applicant:	Unit213,2/F.,Wellborne Commercial Centre 8 Java Road, North Point, Hong Kong	

5.2 General Description of EUT

Product Name:	keyfinder
Model No.:	R621, R631
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	40
Channel separation:	2MHz
Modulation type:	GFSK
Antenna Type:	Integral antenna
Antenna gain:	2.0dBi (declare by Applicant)
Power supply:	DC 3V Lithium Battery



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
• !	. !	• !!	. !	. !	. !	•	. !
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

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	2402MHz
The middle channel	2442MHz
The Highest channel	2480MHz



5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode				
Remark: New battery is used during all test.					

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	Y	Z
Field Strength(dBuV/m)	86.53	90.34	88.81

5.4 Description of Support Units

None.

5.5 Test Facility

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

• 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: Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, China

Tel: 0755-27798480 Fax: 0755-27798960

5.7 Description of Support Units

None

5.8 Other Information Requested by the Customer

None.



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 2015	Mar. 27 2016		
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	Jun 30 2015	Jun 29 2016		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jun 30 2015	Jun 29 2016		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Jun 30 2015	Jun 29 2016		
6	6 Double -ridged SCHWARZBECK waveguide horn MESS-ELEKTRONIK		9120D-829	GTS208	June 26 2015	June 25 2016		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016		
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016		
11	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016		
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jun. 30, 2015	Jun 29 2016		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jun. 30, 2015	Jun 29 2016		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 26 2015	June 25 2016		
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016		

Con	Conducted Emission:												
Item	Took Favinment	Manufacturer	Model No.	Inventory	Cal.Date	Cal.Due date							
iteiii	Test Equipment	Manufacturer	wiodei No.	No.	(mm-dd-yy)	(mm-dd-yy)							
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Jun. 30 2015	Jun. 29 2016							
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jun. 30 2015	Jun. 29 2016							
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jun. 30 2015	Jun. 29 2016							
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jun. 30 2015	Jun. 29 2016							
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jun. 30 2015	Jun. 29 2016							
6	Coaxial Cable	GTS	N/A	GTS227	Jun. 30 2015	Jun. 29 2016							
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 07 2015	July 06 2016						



7 Test results and Measurement Data

7.1 Antenna requirement

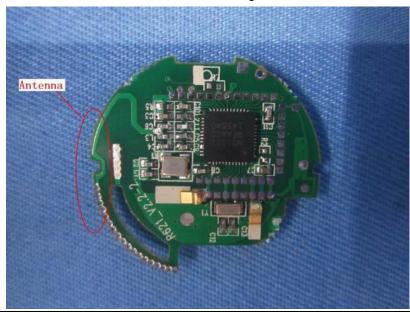
Standard requirement: FCC Part15 C Section 15.203

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.

EUT Antenna:

The antenna is PCB antenna, the best case gain of the antenna is 2dBi





7.2 Radiated Emission Method

1.2	Radiated Emission Me	etnoa					
	Test Requirement:	FCC Part15 C S	Section 15.20	9			
	Test Method:	ANSI C63.10:20	013				
	Test Frequency Range:	30MHz to 25GH	łz				
	Test site:	Measurement D	Distance: 3m				
	Receiver setup:	Frequency	Detector		RBW	VBW	Remark
		30MHz- 1GHz	Quasi-pea	k	120KHz	300KHz	Quasi-peak Value
		Above 1011	Peak		1MHz	3MHz	Peak Value
		Above 1GHz	Peak		1MHz	10Hz	Average Value
	Limit:	Freque	ency	/m @3m)	Remark		
	(Field strength of the fundamental signal)	2400MHz-24	183.5MHz		94.0	0	Average Value
	Limit:	Freque	ency	L	imit (dBuV/	/m @3m)	Remark
	(Spurious Emissions)	30MHz-8			40.0 43.5		Quasi-peak Value
	(88MHz-2	Quasi-peak Value				
		216MHz-9			46.0		Quasi-peak Value
		960MHz-	-1GHz		54.0 54.0		Quasi-peak Value
		Above 1	IGHz		74.0		Average Value Peak Value
	Limit: (band edge)	harmonics, sha	ll be attenuat to the genera	ed l	by at least a diated emi	50 dB belov	bands, except for w the level of the in Section 15.209,
	Test setup:	EUT	4m 4m 0.8m Im			Anten Sea Ante RF Test Receiver	



Report No.: GTSE15080159501 Antenna Tower EUT Horn Antenna Spectrum Analyzer Table 1m Amplifier Test Procedure: 1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna 3. 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. 4. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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. Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.3 for details Test results: **Pass**

Measurement data:



7.2.1 Field Strength of The Fundamental Signal

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
2402.00	86.52	27.58	5.39	30.18	89.31	114.00	-24.69	Vertical
2402.00	84.89	27.58	5.39	30.18	87.68	114.00	-26.32	Horizontal
2442.00	85.34	27.55	5.43	30.06	88.26	114.00	-25.74	Vertical
2442.00	84.01	27.55	5.43	30.06	86.93	114.00	-27.07	Horizontal
2480.00	87.28	27.52	5.47	29.93	90.34	114.00	-23.66	Vertical
2480.00	84.88	27.52	5.47	29.93	87.94	114.00	-26.06	Horizontal

Average 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
2402.00	76.50	27.58	5.39	30.18	79.29	94.00	-14.71	Vertical
2402.00	74.75	27.58	5.39	30.18	77.54	94.00	-16.46	Horizontal
2442.00	75.06	27.55	5.43	30.06	77.98	94.00	-16.02	Vertical
2442.00	72.37	27.55	5.43	30.06	75.29	94.00	-18.71	Horizontal
2480.00	77.15	27.52	5.47	29.93	80.21	94.00	-13.79	Vertical
2480.00	74.81	27.52	5.47	29.93	77.87	94.00	-16.13	Horizontal



7.2.2 Spurious emissions

■ Below 1GHz

■ Delow I	OLIZ							
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
48.16	25.25	15.36	0.75	30.01	11.35	40.00	-28.65	Vertical
109.03	24.15	14.35	1.27	29.64	10.13	43.50	-33.37	Vertical
207.85	24.65	12.80	1.89	29.28	10.06	43.50	-33.44	Vertical
339.59	24.01	16.12	2.57	29.78	12.92	46.00	-33.08	Vertical
475.50	24.05	17.95	3.21	29.35	15.86	46.00	-30.14	Vertical
744.87	24.76	21.39	4.26	29.20	21.21	46.00	-24.79	Vertical
36.13	24.18	14.63	0.62	30.06	9.37	40.00	-30.63	Horizontal
62.21	24.16	13.77	0.88	29.91	8.90	40.00	-31.10	Horizontal
112.13	23.74	13.83	1.30	29.62	9.25	43.50	-34.25	Horizontal
250.30	27.54	14.07	2.12	29.65	14.08	46.00	-31.92	Horizontal
379.91	25.43	16.59	2.76	29.59	15.19	46.00	-30.81	Horizontal
642.86	23.75	20.61	3.88	29.26	18.98	46.00	-27.02	Horizontal



Above 1GHz

Peak value:

i cak 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
4804.00	35.44	31.78	8.60	32.09	43.73	74.00	-30.27	Vertical
7206.00	30.59	36.15	11.65	32.00	46.39	74.00	-27.61	Vertical
9608.00	30.37	37.95	14.14	31.62	50.84	74.00	-23.16	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	39.35	31.78	8.60	32.09	47.64	74.00	-26.36	Horizontal
7206.00	32.18	36.15	11.65	32.00	47.98	74.00	-26.02	Horizontal
9608.00	29.61	37.95	14.14	31.62	50.08	74.00	-23.92	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal

Average value:

Average var	ue.							
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
4804.00	24.61	31.78	8.60	32.09	32.90	54.00	-21.10	Vertical
7206.00	19.49	36.15	11.65	32.00	35.29	54.00	-18.71	Vertical
9608.00	18.68	37.95	14.14	31.62	39.15	54.00	-14.85	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	28.63	31.78	8.60	32.09	36.92	54.00	-17.08	Horizontal
7206.00	21.54	36.15	11.65	32.00	37.34	54.00	-16.66	Horizontal
9608.00	18.26	37.95	14.14	31.62	38.73	54.00	-15.27	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					54.00		Horizontal

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test channe	l:			N	/liddle			
Peak value:				•				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	1 404	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4884.00	35.25	31.85	8.67	32.12	43.65	74.00	-30.35	Vertical
7326.00	30.47	36.37	11.72	31.89	46.67	74.00	-27.33	Vertical
9768.00	30.25	38.35	14.25	31.62	51.23	74.00	-22.77	Vertical
12210.00	*					74.00		Vertical
14652.00	*					74.00		Vertical
4884.00	39.11	31.85	8.67	32.12	47.51	74.00	-26.49	Horizontal
7326.00	32.04	36.37	11.72	31.89	48.24	74.00	-25.76	Horizontal
9768.00	29.48	38.35	14.25	31.62	50.46	74.00	-23.54	Horizontal
12210.00	*					74.00		Horizontal
14652.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	1 1 20/21	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4884.00	24.45	31.85	8.67	32.12	32.85	54.00	-21.15	Vertical
7326.00	19.39	36.37	11.72	31.89	35.59	54.00	-18.41	Vertical
9768.00	18.59	38.35	14.25	31.62	39.57	54.00	-14.43	Vertical
12210.00	*					54.00		Vertical
14652.00	*					54.00		Vertical
4884.00	28.45	31.85	8.67	32.12	36.85	54.00	-17.15	Horizontal
7326.00	21.42	36.37	11.72	31.89	37.62	54.00	-16.38	Horizontal
9768.00	18.15	38.35	14.25	31.62	39.13	54.00	-14.87	Horizontal
12210.00	*					54.00		Horizontal

Remark:

14652.00

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.

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Horizontal

54.00



Peak value: Frequency (MHz)	Read Level (dBuV) 34.91	Antenna Factor (dB/m)	Cable Loss	Pream Facto	ıp Level		Over	
(MHz)	Level (dBuV)	Factor (dB/m)	Loss		ip Laval		Over	
	34.91		(dB)	(dB)	(dBuV/m)	Limit Line (dBuV/m)	Limit (dB)	polarization
4960.00		31.93	8.73	32.16	3 43.41	74.00	-30.59	Vertical
7440.00	30.24	36.59	11.79	31.78	3 46.84	74.00	-27.16	Vertical
9920.00	30.05	38.81	14.38	31.88	51.36	74.00	-22.64	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	38.71	31.93	8.73	32.16	6 47.21	74.00	-26.79	Horizontal
7440.00	31.78	36.59	11.79	31.78	3 48.38	74.00	-25.62	Horizontal
9920.00	29.25	38.81	14.38	31.88	50.56	74.00	-23.44	Horizontal
12400.00	*					74.00		Horizontal
14880.00	*					74.00		Horizontal
Average valu	ie:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	. 6/6	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	24.19	31.93	8.73	32.16	32.69	54.00	-21.31	Vertical
7440.00	19.21	36.59	11.79	31.78	35.81	54.00	-18.19	Vertical
9920.00	18.43	38.81	14.38	31.88	39.74	54.00	-14.26	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	28.15	31.93	8.73	32.16	36.65	54.00	-17.35	Horizontal
7440.00	21.22	36.59	11.79	31.78	37.82	54.00	-16.18	Horizontal
9920.00	17.96	38.81	14.38	31.88	39.27	54.00	-14.73	Horizontal
12400.00	*					54.00		Horizontal

Remark:

14880.00

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, China Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

Horizontal

54.00



7.2.3 Bandedge emissions

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

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				
000000	07.00	07.50	- 00	00.40	40.44	74.00	00.00					

Lowest channel

Horizontal 2390.00 37.32 27.59 5.38 30.18 40.11 74.00 -33.89 2400.00 27.58 74.00 53.32 5.39 30.18 56.11 -17.89 Horizontal 2390.00 37.34 27.59 5.38 30.18 40.13 74.00 -33.87 Vertical 2400.00 54.76 27.58 5.39 30.18 57.55 74.00 -16.45 Vertical

Average value:

Test channel:

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
2390.00	29.13	27.59	5.38	30.18	31.92	54.00	-22.08	Horizontal
2400.00	40.03	27.58	5.39	30.18	42.82	54.00	-11.18	Horizontal
2390.00	28.68	27.59	5.38	30.18	31.47	54.00	-22.53	Vertical
2400.00	41.15	27.58	5.39	30.18	43.94	54.00	-10.06	Vertical

l est channel:

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
2483.50	38.76	27.53	5.47	29.93	41.83	74.00	-32.17	Horizontal
2500.00	38.99	27.55	5.49	29.93	42.10	74.00	-31.90	Horizontal
2483.50	38.68	27.53	5.47	29.93	41.75	74.00	-32.25	Vertical
2500.00	39.46	27.55	5.49	29.93	42.57	74.00	-31.43	Vertical

Average 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
2483.50	31.89	27.53	5.47	29.93	34.96	54.00	-19.04	Horizontal
2500.00	30.68	27.55	5.49	29.93	33.79	54.00	-20.21	Horizontal
2483.50	32.64	27.53	5.47	29.93	35.71	54.00	-18.29	Vertical
2500.00	30.14	27.55	5.49	29.93	33.25	54.00	-20.75	Vertical

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor



7.3 20dB Occupy Bandwidth

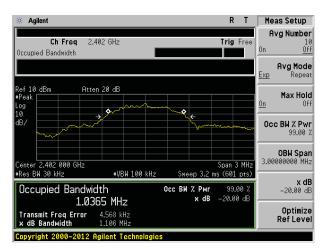
Test Requirement:	FCC Part15 C Section 15.249/15.215				
Test Method:	ANSI C63.10:2013				
Limit:	Operation Frequency range 2400MHz~2483.5MHz				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

Measurement Data

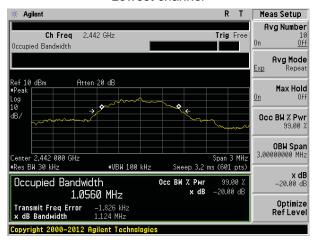
Test channel	20dB bandwidth(MHz)	Result	
Lowest	1.106	Pass	
Middle	1.124	Pass	
Highest	1.111	Pass	

Test plot as follows:

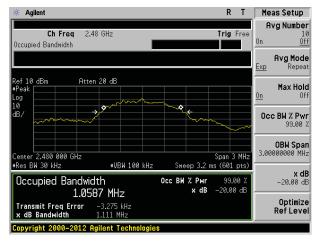




Lowest channel



Middle channel



Highest channel



8 Test Setup Photo

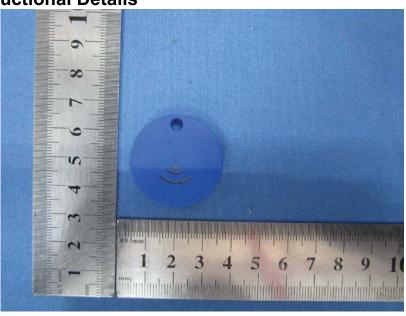
Radiated Emission

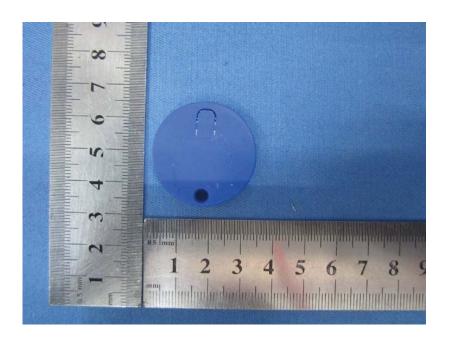






9 EUT Constructional Details

















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