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FCC Test Report

Report No. : CQASZ20191001055E-02

Applicant: Dongguan OSM Technologies Co., Ltd

Address of Applicant: 1 to 6 / F, Building A, Longdi Industrial Park, No. 6 Tiansha Road, Keyuan City, Tangxia Town, Dong guan City

Equipment Under Test (EUT):

EUT Name: Phantom handle multi-function bracket

Model No.: Oth-AB204, Oth-AB204YT, Oth-AB204DY, Oth-AB203, Oth-AB203YT, Oth-AB203DY, SS101, SNAP-X10, M801, JH402, ATSS025

Test Model No.: Oth-AB204YT

Brand Name: SEAJIC

FCC ID: 2ARZU-AB204YT

Standards: 47 CFR Part 15, Subpart C

Date of Receipt: 2019-10-25

Date of Test: 2019-10-25 to 2019-10-31

Date of Issue: 2019-10-31

Test Result : PASS*

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

Tested By:

Tom Chen.

(Tom Chen)

Reviewed By:

Sheek Luo

(Sheek Luo)

Approved By:

Jack Ai

(Jack Ai)





Shenzhen Huaxia Testing Technology Co., Ltd

Report No.: CQASZ20191001055E-02

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20191001055E-02	Rev.01	Initial report	2019-10-31

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
AC Power Line 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

N/A: When the EUT charging, 2.4G will not work , So Not Applicable

Model No.: Oth-AB204, Oth-AB204YT, Oth-AB204DY, Oth-AB203, Oth-AB203YT, Oth-AB203DY, SS101, SNAP-X10, M801, JH402, ATSS025

Only the model Oth-AB204YT was tested, There are identical on circuitry design, PCB layout, electrical components used, internal wiring and functions with the model/item No. Oth-AB204YT , only different on the shape and technology of plastic shell, There are same from the electronic part, function; and schematic diagram.

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4 General Information

4.1 Client Information

Applicant:	Dongguan OSM Technologies Co., Ltd
Address of Applicant:	1 to 6 / F, Building A, Longdi Industrial Park, No. 6 Tiansha Road, Keyuan City, Tangxia Town, Dong guan City
Manufacturer:	Dongguan OSM Technologies Co., Ltd
Address of Manufacturer:	1 to 6 / F, Building A, Longdi Industrial Park, No. 6 Tiansha Road, Keyuan City, Tangxia Town, Dong guan City

4.2 General Description of EUT

Product Name:	Phantom handle multi-function bracket
Model No.:	Oth-AB204, Oth-AB204YT, Oth-AB204DY, Oth-AB203, Oth-AB203YT, Oth-AB203DY, SS101, SNAP-X10, M801, JH402, ATSS025
Test Model No.:	Oth-AB204YT
Trade Mark:	SEAJIC
Hardware Version:	V2.0
Software Version:	V2.0
Frequency Range:	2416 MHz ~ 2467MHz
Modulation Type:	GFSK
Number of Channels:	52 (declared by the client)
Sample Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Test Software of EUT:	RF test (manufacturer declare)
Antenna Type:	Integral antenna
Antenna Gain:	0dBi
Power Supply:	lithium battery:DC3.7V, Charge by DC5.0V

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2416MHz	14	2429MHz	27	2442MHz	40	2455MHz
2	2417MHz	15	2430MHz	28	2443MHz	41	2456MHz
3	2418MHz	16	2431MHz	29	2444MHz	42	2457MHz
4	2419MHz	17	2432MHz	30	2445MHz	43	2458MHz
5	2420MHz	18	2433MHz	31	2446MHz	44	2459MHz
6	2421MHz	19	2434MHz	32	2447MHz	45	2460MHz
7	2422MHz	20	2435MHz	33	2448MHz	46	2461MHz
8	2423MHz	21	2436MHz	34	2449MHz	47	2462MHz
9	2424MHz	22	2437MHz	35	2450MHz	48	2463MHz
10	2425MHz	23	2438MHz	36	2451MHz	49	2464MHz
11	2426MHz	24	2439MHz	37	2452MHz	50	2465MHz
12	2427MHz	25	2440MHz	38	2453MHz	51	2466MHz
13	2428MHz	26	2441MHz	39	2454MHz	52	2467MHz

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(CH1)	2416MHz
The Middle channel(CH26)	2441MHz
The Highest channel(CH52)	2467MHz

4.3 Test Environment and Mode

Operating Environment:	
Radiated Emissions:	
Temperature:	25.1 °C
Humidity:	53 % RH
Atmospheric Pressure:	992mbar
Radio conducted item test (RF Conducted test room):	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	992mbar
Test mode:	
Transmitting mode:	Use test software (RF test) to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
PC	Lenovo	ThinkPad E450c	Provide by lab	FCC ID

4.5 Statement of the 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 Huaxia 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.

Hereafter the best measurement capability for **CQA** laboratory is reported:

Test	Range	Uncertainty	Notes
Radiated Emission	Below 1GHz	5.12dB	(1)
Radiated Emission	Above 1GHz	4.60dB	(1)
Conducted Disturbance	0.15~30MHz	3.34dB	(1)

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

4.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.7 Test Facility

- A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

- FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen 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 No.:522263

4.8 Deviation from Standards

None.

4.9 Abnormalities from Standard Conditions

None.

4.10 Other Information Requested by the Customer

None.

4.11 Equipment List

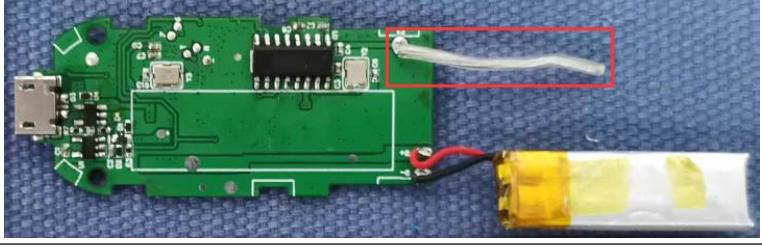
Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2019/10/25	2020/10/24
Spectrum analyzer	R&S	FSU26	CQA-038	2019/10/25	2020/10/24
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2019/10/25	2020/10/24
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2019/10/21	2020/10/20
Bilog Antenna	R&S	HL562	CQA-011	2019/9/26	2020/9/25
Horn Antenna	R&S	HF906	CQA-012	2019/9/26	2020/9/25
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2019/9/25	2020/9/24
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2019/9/26	2020/9/25
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2019/9/26	2020/9/25
Antenna Connector	CQA	RFC-01	CQA-080	2019/9/26	2020/9/25
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2019/9/26	2020/9/25
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2019/9/26	2020/9/25

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

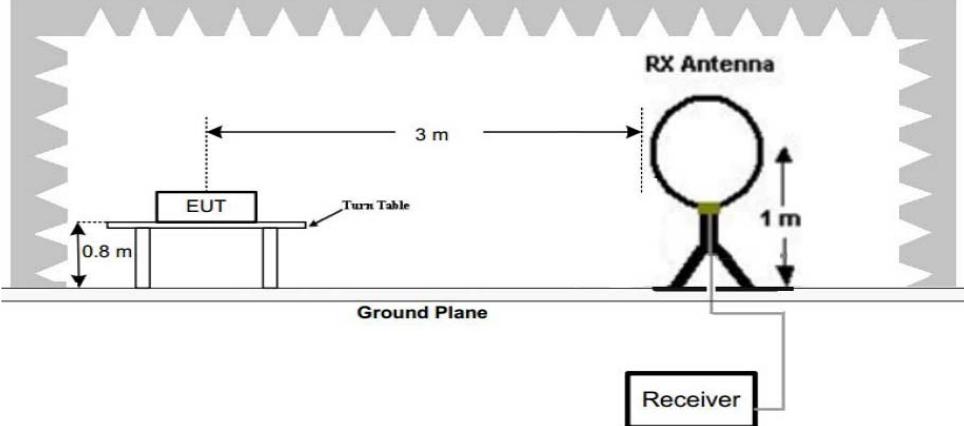
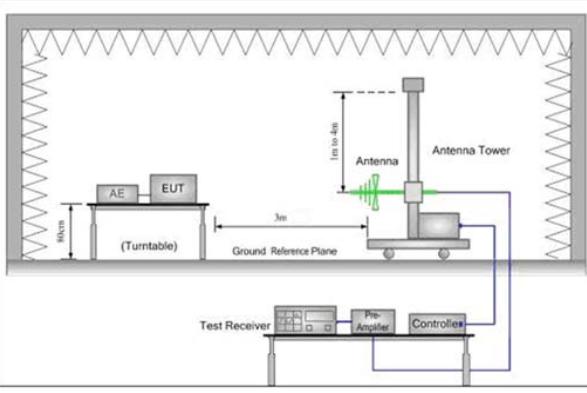
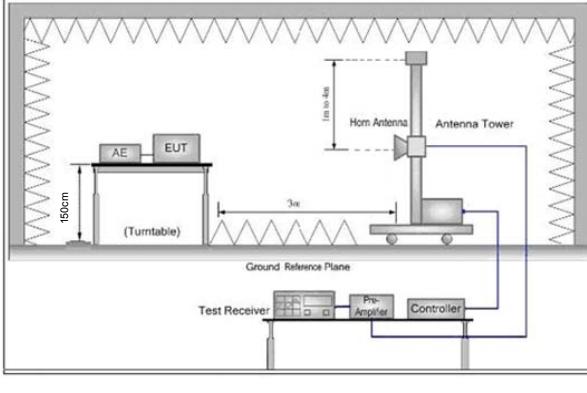
5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
<p>15.203 requirement:</p> <p>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.</p>	
<p>EUT Antenna:</p> 	
EUT Antenna:	The antenna is integral antenna. The best case gain of the antenna is 0dBi.

5.2 Radiated Emission

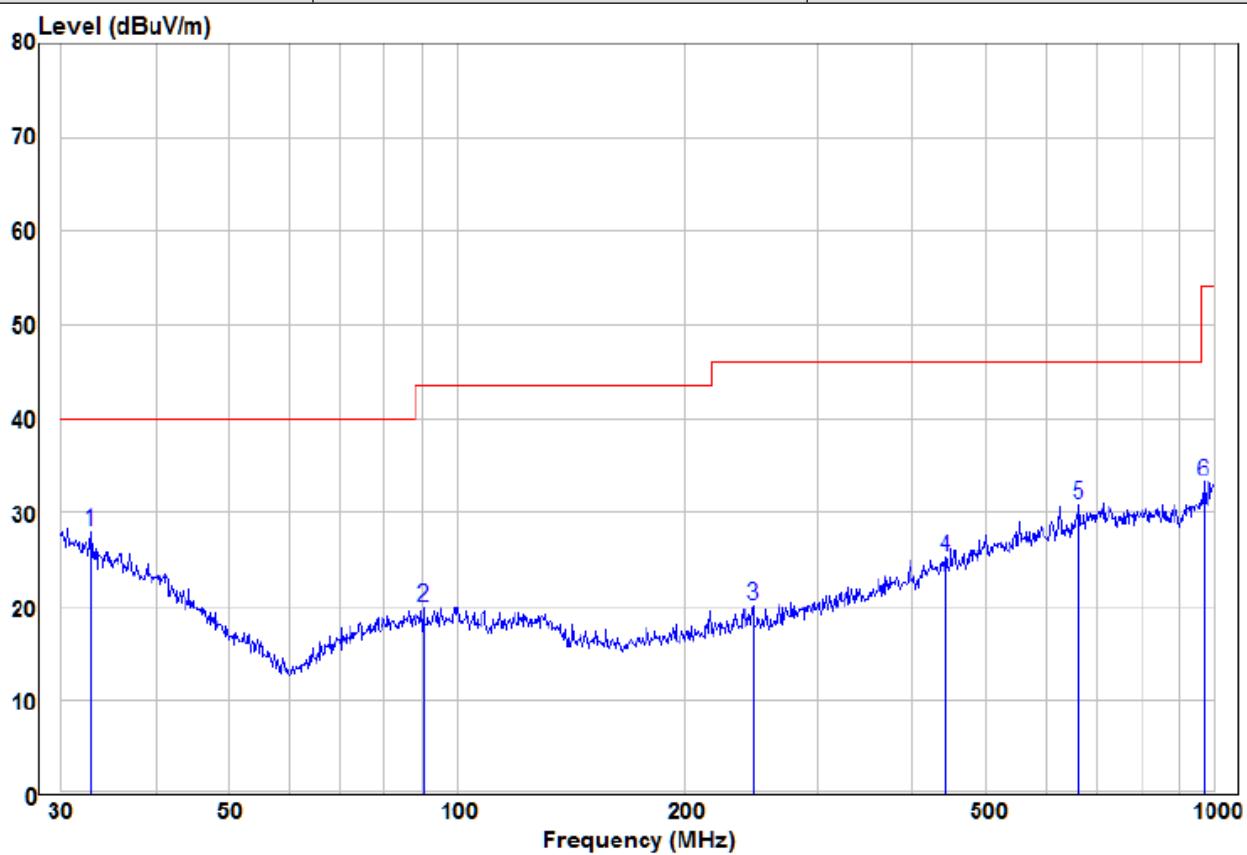
Test Requirement:	47 CFR Part 15C Section 15.249 and 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30KHz	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
Note: For fundamental frequency, RBW=5MHz, VBW=5MHz, Peak detector is for PK value, RMS detector is for Average value.					
Limit: (Spurious Emissions and band edge)	Frequency	Field strength (microvolt/meter)	Limit (dBuV/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: 1) 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.				
2) 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.					
Limit: (Field strength of the fundamental signal)	Frequency	Limit (dBuV/m @3m)		Remark	
	2400MHz-2483.5MHz	94.0		Average Value	
		114.0		Peak Value	

Test Setup:		
		
Figure 1. Below 30MHz		Figure 2. 30MHz to 1GHz
Figure 3. Above 1 GHz		
Test Procedure:	<p>a. 1) Below 1G: 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.</p> <p>2) Above 1G: The EUT was placed on the top of a rotating table 1.5 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.</p> <p>Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 meters above the ground or reference ground plane.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. 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.</p> <p>d. 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</p>	

	<p>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.</p> <ul style="list-style-type: none">e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.f. 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.g. Test the EUT in the lowest channel, the middle channel, the Highest channelh. 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.i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Pretest the EUT at Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the highest channel. Only the worst case is recorded in the report.
Test Results:	Pass

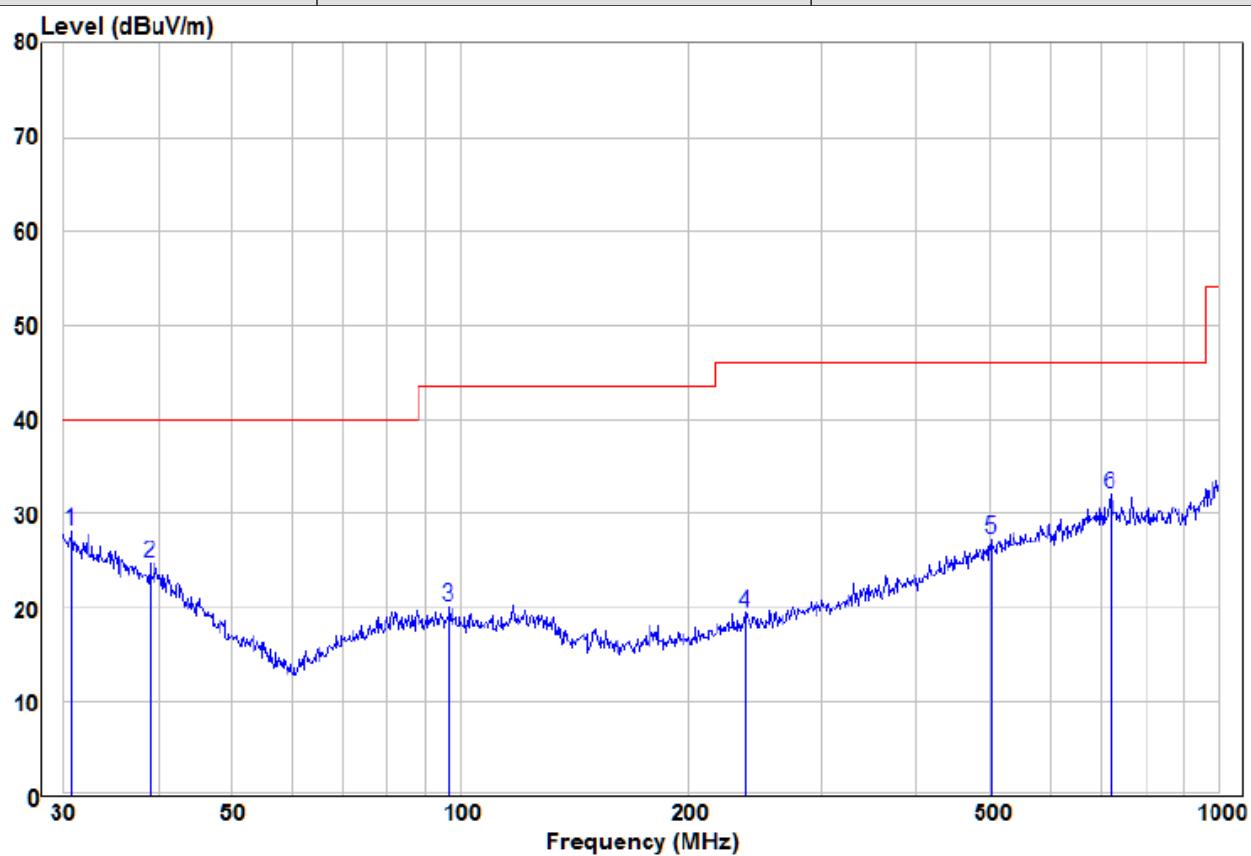
Measurement Data

30MHz~1GHz		
Test mode:	Transmitting	Vertical



Freq	Read		Limit		Over		Pol/Phase
	MHz	dB _{BuV}	Factor	dB _{BuV/m}	dB _{BuV/m}	Line	
1 pp	32.86	10.56	17.38	27.94	40.00	-12.06	Peak VERTICAL
2	90.22	10.01	10.03	20.04	43.50	-23.46	Peak VERTICAL
3	245.95	10.24	9.95	20.19	46.00	-25.81	Peak VERTICAL
4	441.74	9.75	15.47	25.22	46.00	-20.78	Peak VERTICAL
5	663.47	11.44	19.43	30.87	46.00	-15.13	Peak VERTICAL
6	968.93	11.06	22.27	33.33	54.00	-20.67	Peak VERTICAL

Test mode:	Transmitting	Horizontal
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Freq	Read		Limit Line	Over Limit	Remark	Pol/Phase	
	MHz	dB _{UV}	dB/m	dB _{UV} /m	dB _{UV} /m	dB	
1 pp	30.75	10.08	18.14	28.22	40.00	-11.78	Peak HORIZONTAL
2	38.89	9.49	15.20	24.69	40.00	-15.31	Peak HORIZONTAL
3	96.44	9.66	10.43	20.09	43.50	-23.41	Peak HORIZONTAL
4	236.64	9.84	9.66	19.50	46.00	-26.50	Peak HORIZONTAL
5	501.18	10.05	17.29	27.34	46.00	-18.66	Peak HORIZONTAL
6	719.20	11.81	20.22	32.03	46.00	-13.97	Peak HORIZONTAL

Above 1GHz							
Test mode:		Transmitting		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)		H/V
2390	61.05	-9.2	51.85	74	-22.15	Peak	H
2390	52.78	-9.2	43.58	54	-10.42	AVG	H
2400	59.98	-9.39	50.59	74	-23.41	Peak	H
2400	51.86	-9.39	42.47	54	-11.53	AVG	H
2416	99.84	-8.93	90.91	114	-23.09	peak	H
2416	94.63	-8.93	85.7	94	-8.3	AVG	H
4832	58.61	-4.26	54.35	74	-19.65	peak	H
4832	49.58	-4.26	45.32	54	-8.68	AVG	H
7248	53.51	1.08	54.59	74	-19.41	peak	H
7248	43.89	1.08	44.97	54	-9.03	AVG	H
2390	58.35	-9.2	49.15	74	-24.85	peak	V
2390	50.22	-9.2	41.02	54	-12.98	AVG	V
2400	58.88	-9.39	49.49	74	-24.51	peak	V
2400	50.72	-9.39	41.33	54	-12.67	AVG	V
2416	98.53	-8.93	89.6	114	-24.4	peak	V
2416	94.75	-8.93	85.82	94	-8.18	AVG	V
4832	58.4	-4.26	54.14	74	-19.86	peak	V
4832	49.63	-4.26	45.37	54	-8.63	AVG	V
7248	53.17	1.08	54.25	74	-19.75	peak	V
7248	43.97	1.08	45.05	54	-8.95	AVG	V



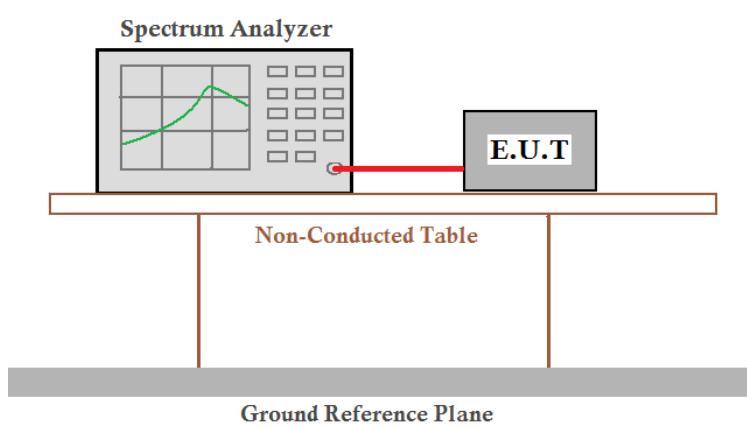
Test mode:		Transmitting		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)		H/V
2441	98.35	-8.74	89.61	114	-24.39	peak	H
2441	95.64	-8.74	86.9	94	-7.1	AVG	H
4882	59.19	-4.11	55.08	74	-18.92	peak	H
4882	50.47	-4.11	46.36	54	-7.64	AVG	H
7323	53.07	1.51	54.58	74	-19.42	peak	H
7323	44.35	1.51	45.86	54	-8.14	AVG	H
2441	96.52	-8.74	97.78	114	-26.22	peak	V
2441	93.08	-8.74	84.34	94	-9.66	AVG	V
4882	58.66	-4.11	54.55	74	-19.45	peak	V
4882	50.06	-4.11	45.95	54	-8.05	AVG	V
7323	53.28	1.51	54.79	74	-19.21	peak	V
7323	43.71	1.51	45.22	54	-8.78	AVG	V

Test mode:		Transmitting		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)		H/V
2467	100.21	-9.23	90.98	114	-23.02	peak	H
2467	96.92	-9.23	87.69	94	-6.31	AVG	H
2483.5	61.18	-9.29	51.89	74	-22.11	Peak	H
2483.5	52.4	-9.29	43.11	54	-10.89	AVG	H
4934	58.76	-4.03	54.73	74	-19.27	peak	H
4934	50.02	-4.03	45.99	54	-8.01	AVG	H
7401	53.2	1.68	54.88	74	-19.12	peak	H
7401	43.64	1.68	45.32	54	-8.68	AVG	H
2467	99.65	-9.23	90.37	114	-23.63	peak	V
2467	95.97	-9.23	86.74	94	-7.26	AVG	V
2483.5	60.59	-9.29	51.3	74	-22.7	peak	V
2483.5	52.24	-9.29	42.95	54	-11.05	AVG	V
4934	58.47	-4.03	54.44	74	-19.56	peak	V
4934	49.1	-4.03	45.07	54	-8.93	AVG	V
7401	52.79	1.68	54.47	74	-19.53	peak	V
7401	43.58	1.68	45.26	54	-8.74	AVG	V

Remark:

- 1) 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 Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, The disturbance above 10GHz 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 .

5.3 20dB Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.215
Test Method:	ANSI C63.10:2013
Test Setup:	<p style="text-align: center;">Spectrum Analyzer</p>  <p style="text-align: center;">Non-Conducted Table</p> <p style="text-align: center;">Ground Reference Plane</p>
Test Mode:	Transmitting with GFSK modulation.
Limit:	N/A
Test Results:	Pass

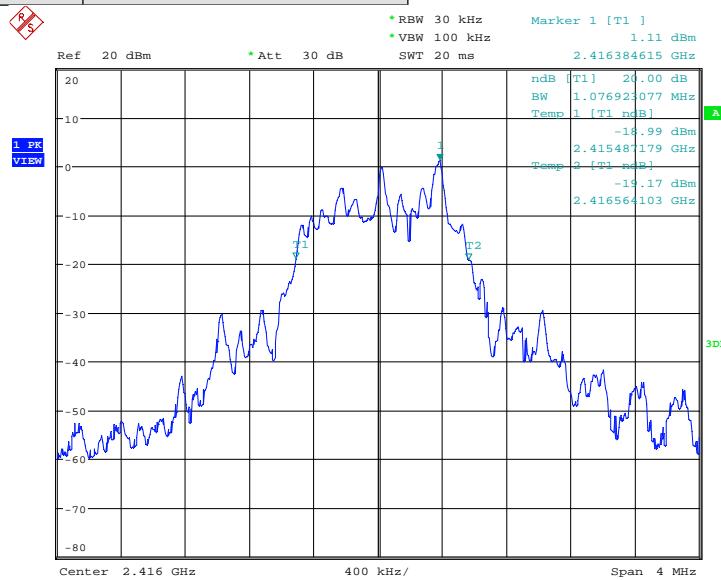
Measurement Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	1.077	Pass
Middle	1.077	Pass
Highest	1.077	Pass

Test plot as follows:

Test channel:

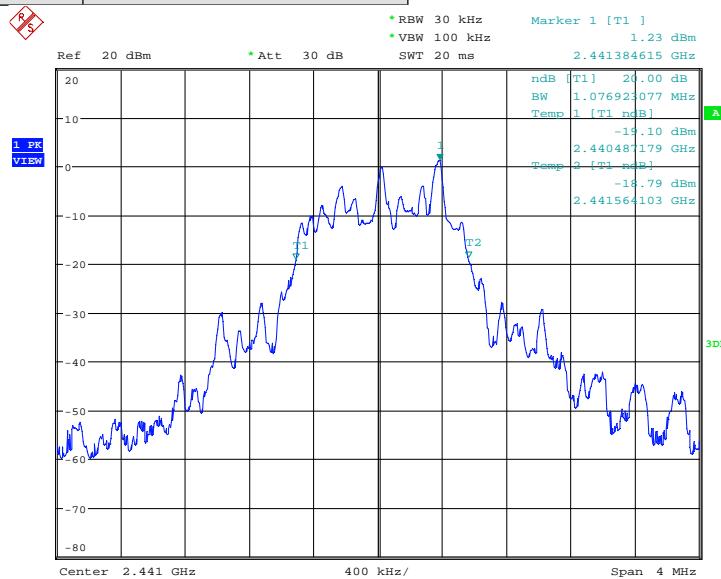
Lowest



Date: 29.OCT.2019 19:34:50

Test channel:

Middle



Date: 29.OCT.2019 19:36:10



6 Photographs

6.1 Radiated Emission Test Setup

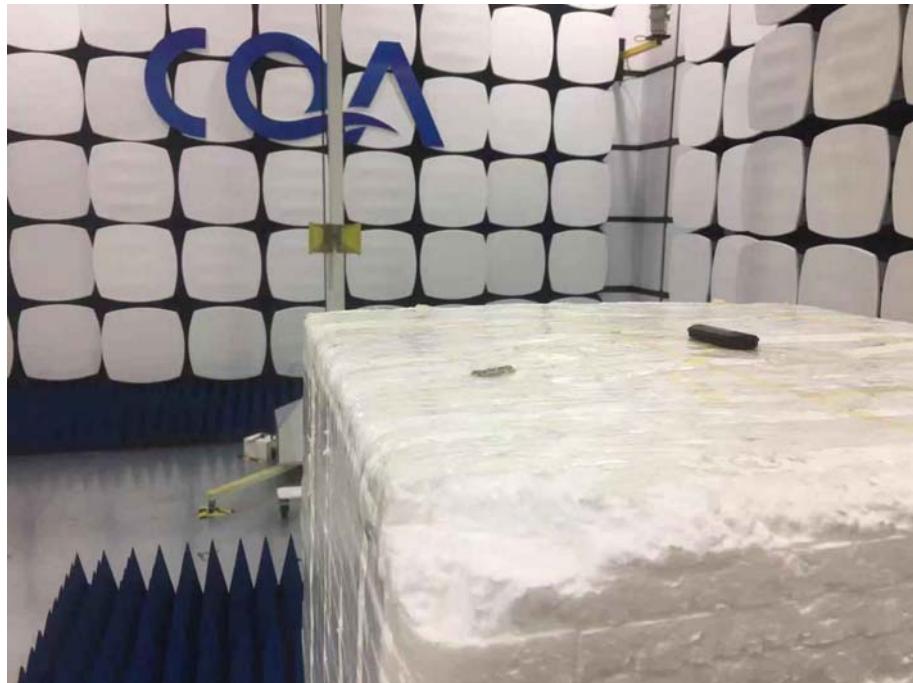
9KHz~30MHz



30MHz~1GHz:



Above 1GHz:



6.2 EUT Constructional Details



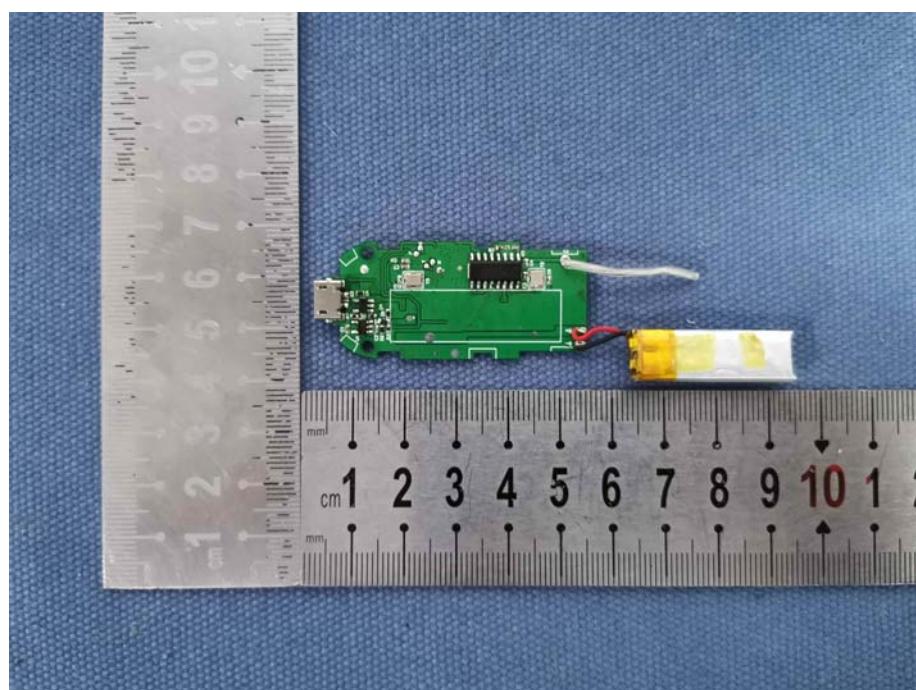
Test Model No.: Oth-AB204YT

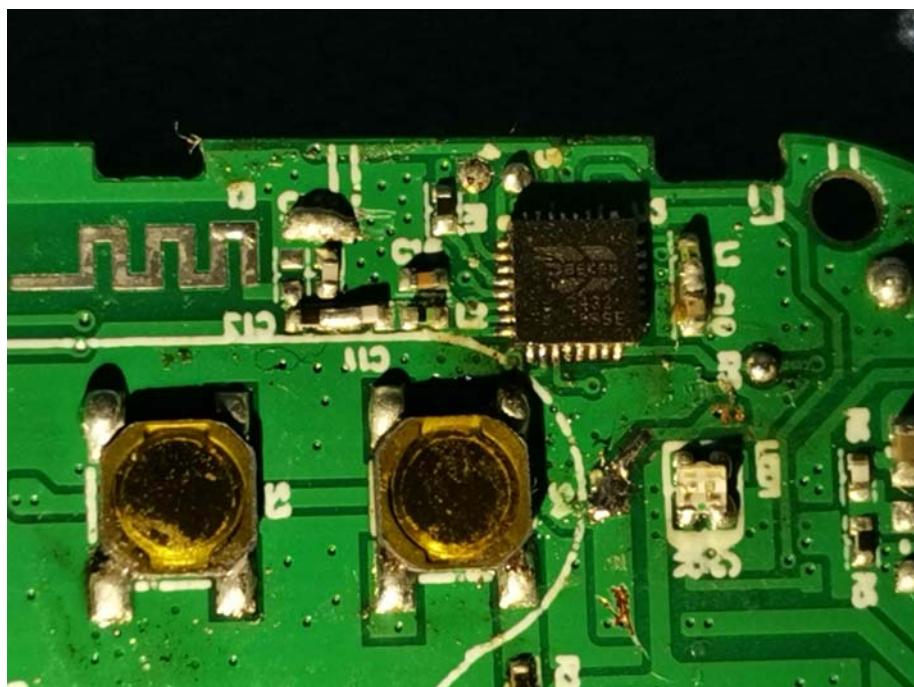
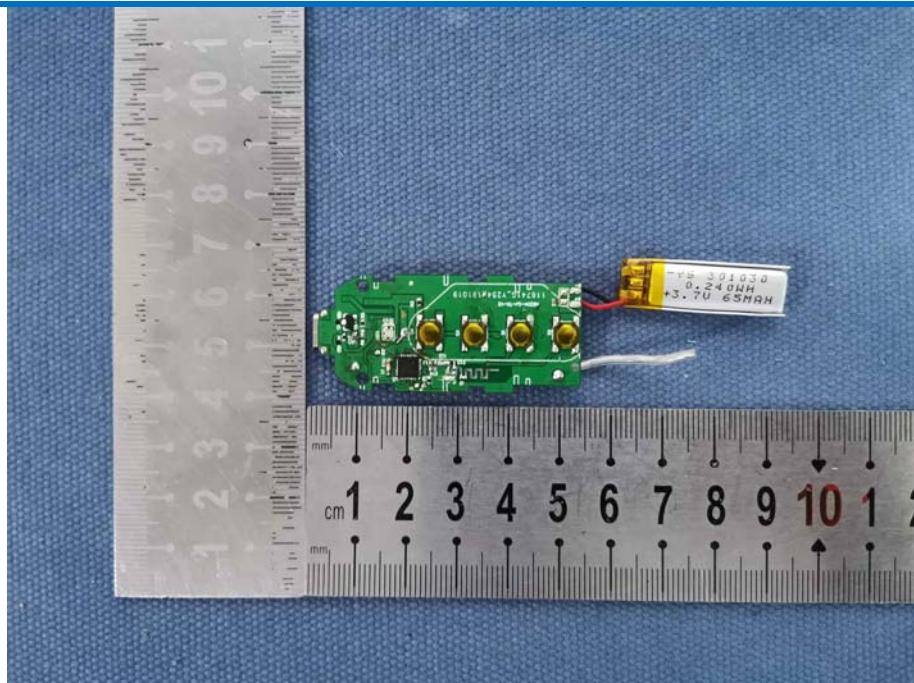


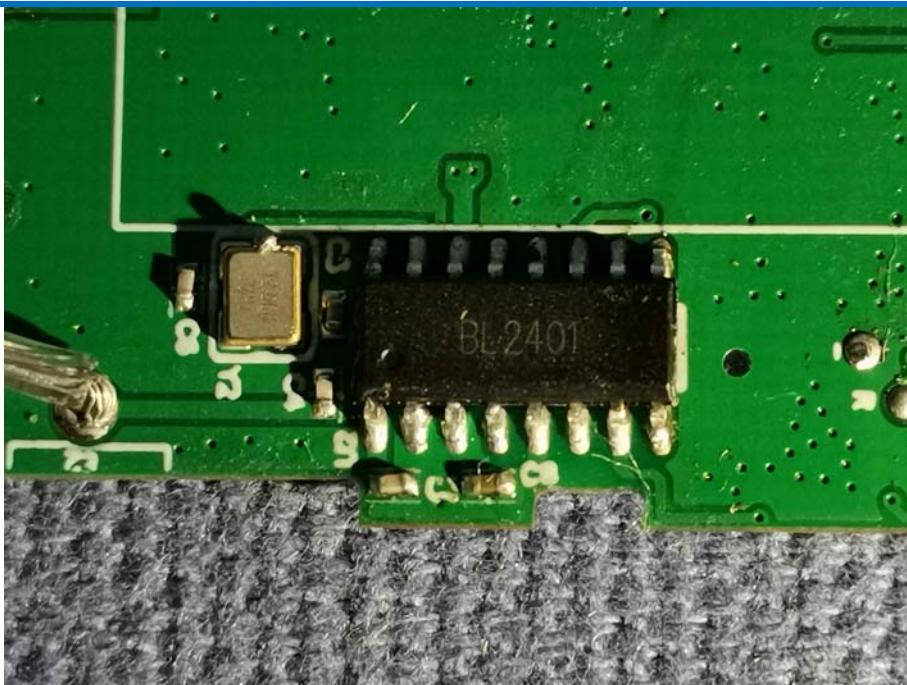












The End