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RF Exposure Evaluation Report

Report No. : CQASZ20191001054E-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
Mode No.: Oth-AB204, Oth-AB204YT, Oth-AB204DY, Oth-AB203, Oth-AB203YT, Oth-AB203DY, SS101, SNAP-X10, M801, JH402, ATSS025
Test Mode No.: Oth-AB204
Brand Name: SEAJIC
FCC ID: 2ARZU-AB204DY
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2019-10-21
Date of Test: 2019-10-21 to 2019-10-28
Date of Issue: 2019-10-28
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)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20191001054E-02	Rev.01	Initial report	2019-10-28

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3 General Information

3.1 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

3.2 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-AB204DY
Trade Mark:	SEAJIC
Hardware Version:	V2.0
Software Version:	V2.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.2
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Test Software of EUT:	Maxscend Bluetooth MP Tool(MXD2660x) (manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
EUT Power Supply:	lithium battery:DC3.7V, Charge by DC5.0V

Note:

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

Only the model Oth-AB204DY was tested, There are identical on circuitry design, PCB layout, electrical components used, internal wiring and functions with the model/item No. Oth-AB204DY , only different on the shape and technology of plastic shell, There are same from the electronic part, function, and schematic diagram.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

4.1.3 EUT RF Exposure

For BLE

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-3.31	-4.0±1	-3.0	0.501
Middle(2440MHz)	-3.24	-4.0±1	-3.0	0.501
Highest(2480MHz)	-3.13	-4.0±1	-3.0	0.501

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-0.6	-1.5±1	-0.5	0.501	0.155	3.0
Middle (2440MHz)	-0.84	-1.5±1	-0.5	0.501	0.157	
Highest (2480MHz)	0	-0.5±1	0.5	0.501	0.158	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20191001054E-01.