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RF Exposure Evaluation Report

Report No. : CQASZ20190900900E-02

Applicant: ManguTechnologyCo.LT

Address of Applicant: 1 east chang 'an street 100010 Dongcheng District, China

Equipment Under Test (EUT):

EUT Name: Ez more

Model No.: Ti10

Brand Name: Ez more

FCC ID: 2AURF-TI1020191

Standards: 47 CFR Part 1.1307

47 CFR Part 1.1310

KDB447498D01 General RF Exposure Guidance v06

Date of Receipt: 2019-09-09

Date of Test: 2019-09-11 to 2019-09-23

Date of Issue: 2019-09-23

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
CQASZ20190900900E-02	Rev.01	Initial report	2019-09-23

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3 General Information

3.1 Client Information

Applicant:	ManguTechnologyCo.LT
Address of Applicant:	1 east chang 'an street 100010 Dongcheng District, China
Manufacturer:	ManguTechnologyCo.LT
Address of Manufacturer:	1 east chang 'an street 100010 Dongcheng District, China

3.2 General Description of EUT

Product Name:	Ez more
Test Model No.:	Ti10
Trade Mark:	Ez more
Hardware Version:	nRF51_2.0.1
Software Version:	R10V_19.0.1
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.2
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Test Software of EUT:	nRFgo Studio (manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	3.3dBi
EUT Power Supply:	lithium battery:DC3.7V, Charge by DC5V

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:

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

$f(\text{GHz})$ 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

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance		Maximum tune-up Power
		(dBm)	(mW)	(dBm)
Lowest(2402MHz)	-0.02	0±1	1	1.259
Middle(2440MHz)	0.52	0±1	1	1.259
Highest(2480MHz)	0.76	0±1	1	1.259

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)	-0.02	0±1	1	1.259	0.390	3.0
Middle (2440MHz)	0.52	0±1	1	1.259	0.393	
Highest (2480MHz)	0.76	0±1	1	1.259	0.397	

Conclusion: the calculated value ≤ 3.0 , SAR is exempted.

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20190900900E-01