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RF Exposure Evaluation Report

Report No.: CQASZ20201001269E-02

Applicant: Shenzhen Minew Technologies Co., Ltd

Address of Applicant: 3rd Floor, I Bulding, Gangzhilong Science Park, Qinglong Road, Longhua

District, Shenzhen City, China

Equipment Under Test (EUT):

EUT Name: Electronic price tag

Model No.: STag42, STag42R, STag42B, STag42Y

Teat Model No.: STag42 **Brand Name: MINEW**

FCC ID: 2ABU6-STAG42 47 CFR Part 1.1307 Standards: 47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

Date of Receipt: 2020-10-26

Date of Test: 2020-10-26 to 2020-10-30

Date of Issue: 2020-10-30 **Test Result:** PASS*

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

(Martin Lee) Tested By:

Reviewed By:

(Sheek Luo)

Approved By: (Jack Ai)

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.



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1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20201001269E-02	Rev.01	Initial report	2020-10-30



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3 General Information

3.1 Client Information

Applicant:	Shenzhen Minew Technologies Co., Ltd		
Address of Applicant:	3rd Floor, I Bulding, Gangzhilong Science Park, Qinglong Road, Longhua District, Shenzhen City, China		
Manufacturer:	Shenzhen Minew Technologies Co., Ltd		
Address of Manufacturer:	3rd Floor, I Bulding, Gangzhilong Science Park, Qinglong Road, Longhua District, Shenzhen City, China		
Factory:	Shenzhen Minew Technologies Co., Ltd		
Address of Factory:	Building 3, Instrument World Industrial Park, No. 306, Guanlan Guiyue Road, Longhua District, Shenzhen		

3.2 General Description of EUT

Product Name:	Electronic price tag	
Model No.:	STag42, STag42B, STag42Y	
Test Model No.:	STag42	
Trade Mark:	MINEW	
Hardware Version:	V1.X	
Software Version:	V1.X.X	
Operation Frequency:	2402MHz~2480MHz	
Bluetooth Version:	V5.0	
Modulation Type:	GFSK	
Transfer Rate:	1Mbps, 2Mbps	
Number of Channel:	40	
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location	
Test Software of EUT:	Direct Test Mode Tool (manufacturer declare)	
Antenna Type:	PCB antenna	
Antenna Gain:	1.78dBi	
EUT Power Supply:	Lithium Battery: DC 3V	

Note:

Model No.: STag42, STag42R, STag42B, STag42Y

Only the model STag42 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.



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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:

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

f(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 \leq 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





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4.1.3 EUT RF Exposure

1) For BLE

Measurement Data

Weasurement Data							
GFSK(1Mbps) mode							
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power				
	(dBm)	(dBm) (dBm)		(mW)			
Lowest(2402MHz)	2.99	2.5±1	3.5	2.239			
Middle(2440MHz)	3.77	3.0±1	4.0 2.512				
Highest(2480MHz)	4	3.5±1	4.5	2.818			
	GFSK(2Mbps) mode						
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power				
	(dBm)	(dBm)	(dBm)	(mW)			
Lowest(2402MHz)	3.01	2.5±1	3.5	2.239			
Middle(2440MHz)	3.77	3.0±1	4.0	2.512			
Highest(2480MHz)	4.03	3.5±1	4.5	2.818			

Worst case: GFSK(2Mbps)						
Channel	Maximum Peak Conducted Output Power (dBm) Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold	
		(dBm)	(mW)	value	uncanoid	
Lowest (2402MHz)	3.01	2.5±1	3.5	2.239	0.705	
Middle (2440MHz)	3.77	3.0±1	4.0	2.512	0.779	3.0
Highest (2480MHz)	4.03	3.5±1	4.5	2.818	0.881	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20201001269E-01

--THE END--