



SAR Evaluation Report

Application No.: SZEM2101000020CR
Applicant: Craftie Fox Inc.
Address of Applicant: 2980 McFarlane Rd, Miami, Florida 33133 United States
Manufacturer: Craftie Fox Inc.
Address of Manufacturer: 2980 McFarlane Rd, Miami, Florida 33133 United States
Equipment Under Test (EUT):
EUT Name: Storypod1
Model No.: P0001
Trade mark: TBC
FCC ID: 2AXQ6-STORYPOD1
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2021-01-04
Date of Test: 2021-01-07 to 2021-01-24
Date of Issue: 2021-01-26

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-01-26		Original

Authorized for issue by:				
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4 General Information

4.1 General Description of EUT

Power supply:	Rechargeable battery DC3.7V 2400mAh,Charged by DC5V 2A
Cable(s):	USB cable:100cm unshielded
For BLE:	
Bluetooth Version:	BLE V5.0
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Data rate:	1Mb/s
Antenna Type:	Integral Antenna
Antenna Gain:	1dBi
For 2.4G WIFI:	
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK); 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
Channel Spacing:	5MHz
Antenna Type:	Integral Antenna
Antenna Gain:	3dBi
For NFC:	
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	Loop Antenna
Antenna Gain:	0dBi





4.2 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.3 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.



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5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 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.

5.1.2 Limits

1. 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:

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

$f(\text{GHz})$ 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

2. At frequencies below 100 MHz, the following may be considered for SAR test exclusion:

a) The power threshold at the corresponding test separation distance at 100 MHz in below step 1) is multiplied by $[1 + \log(100/f(\text{MHz}))]$ for test separation distances > 50 mm and < 200 mm

The power threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$ for test separation distances ≤ 50 mm.

$$[\text{Power allowed at numeric threshold for 50 mm in step 1)} + (\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)] \text{ mW, at 100 MHz to 1500 MHz}$$

3. When an antenna qualifies for the standalone SAR test exclusion of 4.3.1 and also transmits simultaneously with other antennas, the standalone SAR value must be estimated according to the following to determine the simultaneous transmission SAR test exclusion criteria:³⁶

1) $\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \cdot \sqrt{f(\text{GHz})} \right] / x \text{ W/kg, for test separation distances } \leq 50 \text{ mm;}$

where $x = 7.5$ for 1-g SAR and $x = 18.75$ for 10-g SAR.

2) 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distance is > 50 mm.





5.1.3 EUT RF Exposure

For BLE:

The Max. power (including tune-up tolerance) is 1.09 dBm on the highest channel 2.402 GHz (*)
1.09 dBm logarithmic terms convert to numeric result is nearly 1.29 mW

According to the formula. calculate the test exclusion thresholds:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$$

$$[v_f(\text{GHz})]$$

$$\text{General RF Exposure} = (1.29 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{ GHz}} = 0.40 \quad (1)$$

SAR requirement:

$$S = 3.0 \quad (2)$$

(1) < (2)

So the SAR report is not required.

(*) Max. power refer to Report No.:SZEM210100002002

For 2.4G WIFI:

The Max. power (including tune-up tolerance) is 9.29 dBm on the highest channel 2.412 GHz (*)
9.29 dBm logarithmic terms convert to numeric result is nearly 8.49 mW

According to the formula. calculate the test exclusion thresholds:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$$

$$[v_f(\text{GHz})]$$

$$\text{General RF Exposure} = (8.49 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.412 \text{ GHz}} = 2.64 \quad (1)$$

SAR requirement:

$$S = 3.0 \quad (2)$$

(1) < (2)

So the SAR report is not required.

(*) Max. power refer to Report No.:SZEM210100002003

For NFC:

The maximum radiated output power(including tune-up tolerance) specified is -35.95dBm(0.00025mW)*

The SAR Exclusion Threshold Level for 13.56MHz when the minimum test separation distance is < 50mm:

$$= 474 \cdot [1 + \log(100/f(\text{MHz}))]/2$$

$$= 442.65 \text{ mW}$$

Since the source-based time-averaging radiated output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

(*) Note:

$$E = \text{EIRP} - 20 \log D + 104.7$$



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E=59.21dBu/m(Refer to test report SZEM210100002004)

D=3m

EIRP=59.21- (-20log(3)+104.7)

EIRP=-35.95dBm(0.00025mW)

For BLE , 2.4G WIFI and NFC modes transmit simultaneously:

According to the formula

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})/7.5}] \text{ W/kg}$$

For BLE:

SAR test exclusion = $(1.29\text{mW} / 5 \text{ mm}) \times \sqrt{2.402\text{GHz}/7.5} = 0.053 \text{ W/kg}$

For 2.4G WIFI:

SAR test exclusion = $(8.49\text{mW} / 5 \text{ mm}) \times \sqrt{2.412\text{GHz}/7.5} = 0.352 \text{ W/kg}$

For NFC:

SAR test exclusion = $(0.00025\text{mW} / 5 \text{ mm}) \times \sqrt{0.01356\text{GHz}/7.5} = 7.763 \times 10^{-7} \text{ W/kg}$

The total SAR test exclusion: $0.053 + 0.352 + 7.763 \times 10^{-7} \approx 0.405 \text{ W/kg} < 1.6 \text{ W/kg}$

So the SAR report is not required.

- End of the Report -



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