



TEST REPORT

Report Number. :	90050-24-72-24-PP002	
Date of issue..... :	2024-01-05	
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Manufacturer's name :	Langston Group Limited	
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Factory's name :	Langston Group Limited	
Address..... :	No.3, Tangzhou Road, Lijiafang, Shipai Town, Dongguan	
Standard(s) :	FCC 1.1310: §1.1307(b)	
Test item description :	Langsdom AirFit	
Trade Mark :	Langsdom	
Model/Type reference :	AirFit, TS15, TS17, TS12, TS05, TS19	
FCC ID :	2AZDD-AIRFIT	
Date of receipt of test item..... :	2023-12-30	
Date (s) of performance of test:	2024-01-02 to 2024-01-04	
Summary of Test Results :	Pass	

The Summary of Test Results based on a technical opinion belongs to the standard(s).

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Modified History

Report No.	Revision Date	Summary
90050-24-72-24-PP002	2024-01-05	Original Report

1. EUT Specification

Characteristics	Description
Product:	Langsdom AirFit
Model Number:	AirFit, TS15, TS17, TS12, TS05, TS19 (All tests were performed on model AirFit)
Sample:	1#
Device Type:	Bluetooth V5.4
Data Rate:	DTS: 1Mbps for GFSK modulation
Modulation:	DTS: GFSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	DTS: 40 channels
Transmit Power Max:	DTS: -2.40 dBm
Antenna Gain:	2.7 dBi
Power supply:	Input: DC 5V 1A Charging box: DC 3.7V 400mAh DC 3.7 by battery 55mAh
Evaluation applied:	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation

2. Test Requirement:

RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁴ where

- $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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 according to 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

3. Measurement Result

Transmit Frequency(MHz)	Mode	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2402	BLE(1Mbps)	-2.40	-2±1	-1	0.246216	3
2440	BLE(1Mbps)	-2.94	-3±1	-2	0.197158	3
2480	BLE(1Mbps)	-2.41	-2±1	-1	0.250182	3

According to KDB 447498 D01 General RF Exposure Guidance v06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***

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