

FCC TEST REPORT

FCC ID: OIHS601

Product : Mango

Model Name : S601

Brand :    余音,

Report No. : PT151104006E-FC02

Prepared for

Shenzhen Leader-Union Technology Co., Ltd
3F, No. 90, Alley 5, Hekan Village, Ban Tian, LongGang District,
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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : Shenzhen Leader-Union Technology Co., Ltd
Address : 3F, No. 90, Alley 5, Hekan Village, Ban Tian, LongGang District, Shenzhen City, China
Manufacture's name : Shenzhen Leader-Union Technology Co., Ltd
Address : 3F, No. 90, Alley 5, Hekan Village, Ban Tian, LongGang District, Shenzhen City, China
Product name : Mango
Model name : S601
Standards : FCC CFR47 Part 1.1307(b)(1)
Test procedure : KDB 447498 D01 General RF Exposure Guidance v06
Test Date : Dec. 25 - Jan. 22, 2016
Date of Issue : Jan. 22, 2016
Test Result : Pass

This device described above has been tested by PTS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Testing Engineer

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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

Remark:

N/A: Not Applicable



3 General Information

3.1 General Description of E.U.T.

- Product Name : Mango
- Model Name : S601
- Bluetooth Version: : V2.1+EDR
- Frequency Range: : 2402-2480MHz, 79Channels
- Antenna installation: : PCB Printed Antenna
- Antenna Gain: : 0dBi
- Type of Modulation : GFSK, Pi/4DQPSK, 8DPSK
- The lowest oscillator: : 32.768kHz
- Power supply : DC 3.7V 3A Power by battery, DC 5V 1A power by USB port.

3.2 Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	1	2403	2	2404	3	2405
4	2406	5	2407	6	2408	7	2409
8	2410	9	2411	10	2412	11	2413
12	2414	13	2415	14	2416	15	2417
16	2418	17	2419	18	2420	19	2421
20	2422	21	2423	22	2424	23	2425
24	2426	25	2427	26	2428	27	2429
28	2430	29	2431	30	2432	31	2433
32	2434	33	2435	34	2436	35	2437
36	2438	37	2439	38	2440	39	2441
40	2442	41	2443	42	2444	43	2445
44	2446	45	2447	46	2448	47	2449
48	2450	49	2451	50	2452	51	2453
52	2454	53	2455	54	2456	55	2457
56	2458	57	2459	58	2460	59	2461
60	2462	61	2463	62	2464	63	2465
64	2466	65	2467	66	2468	67	2469
68	2470	69	2471	70	2472	71	2473
72	2474	73	2475	74	2476	75	2477
76	2478	77	2479	78	2480	-	-

4 RF Exposure

Test Requirement: FCC Part 1.1307
 Evaluation Method: KDB 447498 D01 General RF Exposure Guidance v06

4.1 Requirements

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:

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

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz
2. Power and distance are rounded to the nearest mW and mm before calculation
3. 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.

4.2 The procedures / limit

Conducted Peak power(dBm)	Conducted Peak power(mW)	Source-based time-averaged maximum conducted output power(mW)	Minimum test separation distance required for the exposure conditions (mm)	SAR Test Exclusion Thresholds(mW)
4.50	2.82	2.82	5	9.525

Remark: Max. duty factor is 100%

The power tune up tolerance is 3.5 ± 1 dBm

Calculation formula: Source-based time-averaged maximum conducted output power(mW)
 =Conducted peak power(mW)*Duty factor

*****THE END REPORT*****