

FCC RF EXPOSURE EVALUATION REPORT

Product Name: ANDROID SET TOP BOX

Trade Mark: LSP.mini

Model No.: LSPs912-G2-1706 Report Number: 170801012RFC-5

Test Standards: FCC 47 CFR Part 1 Subpart I

FCC ID: 2AF98-LSPS912G2

Test Result: PASS

Date of Issue: September 20, 2017

Prepared for:

LIFE STYLE PANEL PTY LTD.

77 Logistics Place, Larapinta, Queensland, Australia

Prepared by:

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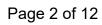
Approved by:

Billy Li

Technical Director

Reviewed by:

Series Series





Version

| Version No. | Date | Description |
|-------------|--------------------|-------------|
| V1.0 | September 20, 2017 | Original |





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1. GENERAL INFORMATION 1.1 CLIENT INFORMATION

| Applicant: | LIFE STYLE PANEL PTY LTD. |
|--------------------------|--|
| Address of Applicant: | 77 Logistics Place, Larapinta, Queensland, Australia |
| Manufacturer: | SHENZHEN GIEC DIGITAL CO., LTD |
| Address of Manufacturer: | No. 1 Building, Factory, No. 7 District, Dayang Development Areas, Fuyong Street, Bao'an, Shenzhen, Guangdong, China |

1.2 EUT INFORMATION

| Product Name: | ANDROID SET TOP BOX | | | |
|--|--------------------------------------|--|--|--|
| Model No.: | LSPs912-G2-1706 | | | |
| Add. Model No.: | GK-MP1111D | | | |
| Trade Mark: | LSP.mini for LSPs912- | -G2-1706; GIEC for GK-MP1111D | | |
| DUT Stage: | Identical Prototype | | | |
| | 2.4 GHz ISM Band: | IEEE 802.11b/g/n | | |
| FUT Commands Forestiens | | Bluetooth: V4.1 (dual mode) | | |
| EUT Supports Function: | 5 GHz U-NII Bands: | 5 150 MHz to 5 250 MHz IEEE 802.11a/n/ac | | |
| | | 5 725 MHz to 5 850 MHz IEEE 802.11a/n/ac | | |
| Software Version: | V1.0.1.20170926 | | | |
| Hardware Version: RM-MPEG-187G VER1.0 | | | | |
| Sample Received Date: | August 3, 2017 | | | |
| Sample Tested Date: | August 3, 2017 to September 16, 2017 | | | |
| Note: All two was dala and with the same aircrit and DOD levert. Only ailly among and trademant of these two | | | | |

Note: All two models are with the same circuit and PCB layout. Color, silk screen and trademark of these two models are different. Model LSPs912-G2-1706 has IR extention Jack, GK-MP MP1111D doesn't have TR extention Jack. GK-MP1111D has AV output interface, LSPs912-G2-1706 doesn't have AV output interface, declared by the manufacturer.



1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

| For BT_LE | |
|---------------------|------------------------|
| Frequency Range: | 2400 MHz to 2483.5 MHz |
| Bluetooth Version: | Bluetooth V4.0 LE |
| Type of Modulation: | GFSK |
| Number of Channels: | 40 |
| Channel Separation: | 2 MHz |
| Antenna Type: | FPCB Antenna |
| Antenna Gain: | 2 dBi |
| Maximum Peak Power: | 8.30 dBm |

| For BT_EDR | | |
|-----------------------|---|--|
| Frequency Range: | 2400 MHz to 2483.5 MHz | |
| Bluetooth Version: | Bluetooth V3.0+EDR | |
| Modulation Technique: | Frequency Hopping Spread Spectrum(FHSS) | |
| Type of Modulation: | GFSK, π/4DQPSK, 8DPSK | |
| Number of Channels: | 79 | |
| Channel Separation: | 1 MHz | |
| Antenna Type: | FPCB Antenna | |
| Antenna Gain: | 2 dBi | |
| Maximum Peak Power: | -5.85 dBm | |

| For 2.4 GHz ISM Band of W | i-Fi | | |
|---|---|--|--|
| Frequency Range: | 2400 MHz to 2483.5 MHz | | |
| Support Standards: | IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20 | | |
| Type of Modulation: IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM(64QAM, 16QAM, QPSK, BPSK) | | | |
| Data Rate: | IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n-HT20: Up to MCS7 | | |
| Number of Channels: | IEEE 802.11b: 11 IEEE 802.11g: 11 IEEE 802.11n-HT20: 11 | | |
| Channel Separation: | 5 MHz | | |
| Antenna Type: | FPCB Antenna | | |
| Antenna Gain: | 2 dBi | | |
| Maximum Peak Power: | IEEE 802.11b: 18.45 dBm IEEE 802.11g: 24.64 dBm IEEE 802.11n-HT20: 20.49 dBm | | |



| For 5 GHz U-NII Bands of W | For 5 GHz U-NII Bands of Wi-Fi | | | | |
|----------------------------|--|------------------------|-------------|--|--|
| F | 5150 MHz to 5250 MHz | | | | |
| Frequency Range: | 5 725 MHz to 5 850 MHz | | | | |
| Support Standards: | IEEE 802.11a/n/ac | | | | |
| TPC Function: | Not Support | | | | |
| DFS Operational mode: | Slave without radar Interference detection function | | | | |
| | IEEE 802.11a: OFDM(64 | 4QAM, 16QAM, QPSK, BPS | SK) | | |
| Type of Modulation: | IEEE 802.11n: OFDM(64 | 4QAM, 16QAM, QPSK, BPS | SK) | | |
| | IEEE 802.11ac: OFDM(2 | 256QAM, 64QAM, 16QAM, | QPSK, BPSK) | | |
| | IEEE 802.11a/n-HT20/a | | | | |
| Channel Spacing: | IEEE 802.11n-HT40/ac- | | | | |
| | IEEE 802.11ac-VHT80/: IEEE 802.11a: Up to 54 | | | | |
| | IEEE 802.11n-HT20: Up | | | | |
| | IEEE 802.11n-HT40: Up | | | | |
| Data Rate: | · | | | | |
| | IEEE 802.11ac-VHT20: Up to MCS8 | | | | |
| | IEEE 802.11ac-VHT40: Up to MCS9 | | | | |
| | IEEE 802.11ac-VHT80: Up to MCS9 | | | | |
| | 5150 MHz to 5250 MHz: 4 for IEEE 802.11a/n-HT20/ac-VHT20 | | | | |
| | 2 for IEEE 802.11n-HT40)/ac-VHT40 | | | | |
| Number of Channels: | 1 for IEEE 802.11acVHT80 | | | | |
| ivaniber of onamicis. | 5725 MHz to 5850 MHz: | | | | |
| | 5 for IEEE 802.11a/n-HT20/ac-VHT20 2 for IEEE 802.11n-HT40/ac-VHT40 | | | | |
| | 2 for IEEE 802. 1 for IEEE 802. | | | | |
| Antenna Type: | FPCB Antenna | TIGO VITTOO | | | |
| | 5150 MHz to 5250 MHz | 2 dBi | | | |
| Antenna Gain: | 5725 MHz to 5850 MHz | 2 dBi | | | |
| | Mode U-NII-1 U-NII-3 | | | | |
| | IEEE 802.11a | 17.99 | 17.13 | | |
| | IEEE 802.11n-HT20 | 15.17 | 14.26 | | |
| Maximum Conducted | IEEE 802.11n-HT40 | 11.70 | 11.19 | | |
| Output Power (dBm): | IEEE 802.11ac-VHT20 | 15.11 | 14.08 | | |
| | IEEE 802.11ac-VHT40 | 11.42 | 11.22 | | |
| | IEEE 802.11ac-VHT80 11.05 10.11 | | | | |
| | | | | | |

1.4 OTHER INFORMATION

| Test channels for BT_LE | | | | |
|-------------------------|--|-----------|------------|------------|
| Type of Modulation | tion Tx/Rx Frequency Test RF Channel Lists | | | |
| | | Lowest(L) | Middle(M) | Highest(H) |
| GFSK | 2402 MHz to 2480 MHz | Channel 0 | Channel 19 | Channel 39 |
| | | 2402 MHz | 2440 MHz | 2480 MHz |

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| Test channels for BT_EDR | | | | | |
|--------------------------|----------------------|-----------------------|------------|------------|--|
| Modo | lode Tx/Rx Frequency | Test RF Channel Lists | | | |
| Wiode | | Lowest(L) | Middle(M) | Highest(H) | |
| GFSK | 2402 MHz to 2480 MHz | Channel 0 | Channel 39 | Channel 78 | |
| (DH1, DH3, DH5) | | 2402 MHz | 2441 MHz | 2480 MHz | |
| π/4DQPSK | 2402 MHz to 2480 MHz | Channel 0 | Channel 39 | Channel 78 | |
| (DH1, DH3, DH5) | | 2402 MHz | 2441 MHz | 2480 MHz | |
| 8DPSK | 2402 MHz to 2480 MHz | Channel 0 | Channel 39 | Channel 78 | |
| (DH1, DH3, DH5) | | 2402 MHz | 2441 MHz | 2480 MHz | |

| Test channels for 2.4 GHz ISM Band of Wi-Fi | | | | | |
|---|----------------------|-----------------------|-----------|------------|--|
| Mode | Tx/Rx Frequency | Test RF Channel Lists | | | |
| Wode | | Lowest(L) | Middle(M) | Highest(H) | |
| IEEE 802.11b | 2412 MHz to 2462 MHz | Channel 1 | Channel 6 | Channel 11 | |
| IEEE 802.11D | | 2412 MHz | 2437 MHz | 2462 MHz | |
| IEEE 000 11a | 2412 MHz to 2462 MHz | Channel 1 | Channel 6 | Channel 11 | |
| IEEE 802.11g | | 2412 MHz | 2437 MHz | 2462 MHz | |
| IEEE 802.11n-HT20 | 2412 MHz to 2462 MHz | Channel 1 | Channel 6 | Channel 11 | |
| IEEE 002.1111-H120 | 2412 MHz to 2462 MHz | 2412 MHz | 2437 MHz | 2462 MHz | |

| Test channels for 5 GHz U-NII Bands of Wi-Fi | | | | |
|--|-----------------------------|-----------------------|-------------|-------------|
| Mode | Ty/Dy Francisco | Test RF Channel Lists | | |
| Wode | Tx/Rx Frequency | Lowest(L) | Middle(M) | Highest(H) |
| | 5150 MHz to 5250 MHz | Channel 36 | Channel 44 | Channel 48 |
| IEEE 802.11a IEEE 802.11n-HT20 | 3 130 WII 12 10 3230 WII 12 | 5180 MHz | 5220 MHz | 5240 MHz |
| IEEE 802.1111-H120 | 5725 MHz to 5850 MHz | Channel 149 | Channel 157 | Channel 161 |
| | | 5745 MHz | 5785 MHz | 5805 MHz |
| | 5150 MHz to 5250 MHz | Channel 38 | | Channel 46 |
| IEEE 802.11n-HT40 | | 5190 MHz | - | 5230 MHz |
| IEEE 802.11ac-VHT40 | 5725 MHz to 5850 MHz | Channel 151 | - | Channel 159 |
| | | 5755 MHz | | 5795 MHz |
| | 5150 MHz to 5250 MHz | <u>-</u> - | Channel 42 | |
| IEEE 802.11ac-HT80 | | | 5210 MHz | - |
| | 5705 MHz to 5050 MHz | - | Channel 155 | - |
| | 5725 MHz to 5850 MHz | | 5775 MHz | |

1.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC 47 CFR Part 1 Subpart I

All test items have been performed and recorded as per the above standards



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1.6 TEST LOCATION

All tests were performed at:

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua

New District, Shenzhen, China 518109 Telephone: +86 (0) 755 2823 0888 Fax: +86 (0) 755 2823 0886

1.7 TEST FACILITY

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

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

IC-Registration No.: 21600-1

The 3m Semi-anechoic chamber of Shenzhen UnionTrust Quality and Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 21600-1.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.8 DEVIATION FROM STANDARDS

None.

1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

2. EQUIPMENT LIST

Please refer to the RF test report.

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3. MPE EVALUATION

3.1 REFERENCE DOCUMENTS FOR EVALUATION

| No. | Identity | Document Title |
|-----|--|---|
| 1 | FCC 47 CFR Part 1 Subpart I | PROCEDURES IMPLEMENTING THE NATIONAL ENVIRONMENTAL POLICY ACT OF 1969 |
| 2 | KDB 447498 D01 General RF Exposure Guidance v06 | RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES |

3.2 MPE COMPLIANCE REQUIREMENT

3.2.1 **Limits**

According to §1.1307(b)(1), system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

Limits for Occupational / Controlled Exposure

| Frequency range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm²) | Averaging Times E ² , H ² or S (minutes) | | |
|--------------------------|---|---|-------------------------------|--|--|--|
| 0.3-3.0 | 614 | 1.63 | (100)* | 6 | | |
| 3.0-30 | 1842/f | 4.89/f | (900/f)* | 6 | | |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 | | |
| 300-1500 | 1 | 1 | F/300 | 6 | | |
| 1500-100000 | 1 | 1 | 5 | 6 | | |

Limits for General Population / Uncontrolled Exposure

| Frequency range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm²) | Averaging Times E ² , H ² or S (minutes) | |
|--------------------------|---|---|-------------------------------|--|--|
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 | |
| 1.34-30 | 824/f | 2.19/f | (180/f)* | 30 | |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 | |
| 300-1500 | 1 | 1 | F/1500 | 30 | |
| 1500-100000 | 1 | 1 | 1 | 30 | |

Note: f = frequency in MHz: * = Plane-wave equivalents power density.

3.2.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.3 MPE CALCULATION METHOD

 $S = PG/4\pi R^2 = EIRP/4\pi R^2$

S = power density (in appropriate units, e.g., mw/cm2)

P = power input to the antenna (in appropriate units, e.g., mw)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor is normally numeric gain.

R = distance to the center of radiation of the antenna (in appropriate units, e.g., cm)

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3.4 MPE CALCULATION RESULTS

Note: For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

3.4.1 For WLAN

For Wi-Fi function, operating at 2412MHz to 2462 MHz for IEEE802.11b/g/n and operating at 5150 MHz to 5250 MHz for IEEE802.11a/n/ac and operating at 5725 MHz to 5850 MHz for IEEE802.11a/n/ac.

3.4.1.1 Antenna Type:

Chain 0: Integral Antenna Chain 1: Integral Antenna

3.4.1.2 Antenna Gain:

Chain 0: 2412MHz to 2462 MHz: 2 dBi

5150 MHz to 5250 MHz: 2 dBi 5725 MHz to 5850 MHz: 2 dBi

3.4.1.3 Results for WLAN

| | Operating Mode | Freq. | Declared maximum conducted average output power | Max. positive tolerance according manufacturer | Antenna Gain | Calculated maximum EIRP | Declared maximum EIRP | MPE Limit | MPE Value |
|-----------|--|-------|--|---|-----------------|-------------------------------|-----------------------------|--------------|--------------|
| | | (MHz) | | Bm) | (dBi) | (dBm) | (mW) | (mw | /cm²) |
| | | 2412 | 15.00 | 1.5 | 2 | 18.5 | 70.7946 | 1 | 0.0141 |
| | IEEE 802.11b | 2437 | 15.00 | 1.5 | 2 | 18.5 | 70.7946 | 1 | 0.0141 |
| | | 2462 | 15.00 | 1.5 | 2 | 18.5 | 70.7946 | 1 | 0.0141 |
| | | 2412 | 14.00 | 1.5 | 2 | 17.5 | 56.2341 | 1 | 0.0112 |
| | IEEE 802.11g | 2437 | 14.00 | 1.5 | 2 | 17.5 | 56.2341 | 1 | 0.0112 |
| | | 2462 | 14.00 | 1.5 | 2 | 17.5 | 56.2341 | 1 | 0.0112 |
| | | 2412 | 10.00 | 1.5 | 2 | 13.5 | 22.3872 | 1 | 0.0045 |
| M | IEEE 802.11n-HT20 | 2437 | 10.00 | 1.5 | 2 | 13.5 | 22.3872 | 1 | 0.0045 |
| | | 2462 | 10.00 | 1.5 | 2 | 13.5 | 22.3872 | 1 | 0.0045 |
| | | 5180 | 17.00 | 1.5 | 2 | 20.5 | 112.2018 | 1 | 0.0223 |
| | | 5220 | 17.00 | 1.5 | 2 | 20.5 | 112.2018 | 1 | 0.0223 |
| | IEEE 802.11a | 5240 | 17.00 | 1.5 | 2 | 20.5 | 112.2018 | 1 | 0.0223 |
| Ant | | 5745 | 17.00 | 1.5 | 2 | 20.5 | 112.2018 | 1 | 0.0223 |
| Antenna 1 | | 5785 | 17.00 | 1.5 | 2 | 20.5 | 112.2018 | 1 | 0.0223 |
| 1a 1 | | 5805 | 17.00 | 1.5 | 2 | 20.5 | 112.2018 | 1 | 0.0223 |
| | IEEE 802.11n-HT20 IEEE 802.11ac-VHT20 | 5180 | 14.00 | 1.5 | 2 | 17.5 | 56.2341 | 1 | 0.0112 |
| | | 5220 | 14.00 | 1.5 | 2 | 17.5 | 56.2341 | 1 | 0.0112 |
| | | 5240 | 14.00 | 1.5 | 2 | 17.5 | 56.2341 | 1 | 0.0112 |
| | | 5745 | 14.00 | 1.5 | 2 | 17.5 | 56.2341 | 1 | 0.0112 |
| | | 5785 | 14.00 | 1.5 | 2 | 17.5 | 56.2341 | 1 | 0.0112 |
| | | 5805 | 14.00 | 1.5 | 2 | 17.5 | 56.2341 | 1 | 0.0112 |
| | IEEE 802.11n-HT40 IEEE 802.11ac-VHT40 | 5190 | 11.00 | 1.5 | 2 | 14.5 | 28.1838 | 1 | 0.0056 |
| | | 5230 | 11.00 | 1.5 | 2 | 14.5 | 28.1838 | 1 | 0.0056 |
| | | 5755 | 11.00 | 1.5 | 2 | 14.5 | 28.1838 | 1 | 0.0056 |
| | | 5795 | 11.00 | 1.5 | 2 | 14.5 | 28.1838 | 1 | 0.0056 |
| | IEEE 802.11ac-VHT80 | 5230 | 10.00 | 1.5 | 2 | 13.5 | 22.3872 | 1 | 0.0045 |
| L | | 5775 | 10.00 | 1.5 | 2 | 13.5 | 22.3872 | 1 | 0.0045 |



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3.4.2 For BT

For BT_LE function, operating at 2402MHz to 2480 MHz for GFSK and For BT_EDR function, operating at 2402MHz to 2480 MHz for GFSK, $\pi/4$ DQPSK, 8DPSK

3.4.2.1 Antenna Type:

Chain 0: Integral Antenna

3.4.2.2 Antenna Gain:

Chain 0: 2402MHz to 2480 MHz: 2 dBi

3.4.2.3 Results for BT

| Operating Mode | Freq. | Declared maximum conducted average output power | Max. positive tolerance according manufacturer | Antenna Gain | Calculated maximum EIRP | Declared maximum EIRP | MPE Limit | MPE Value |
|-------------------|-------|---|---|-----------------|-------------------------------|-----------------------------|--------------|--------------|
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (mW) | (mw/ | cm²) |
| | 2402 | 8.0 | 1 | 2 | 11 | 12.5893 | 1 | 0.0025 |
| LE | 2440 | 8.0 | 1 | 2 | 11 | 12.5893 | 1 | 0.0025 |
| | 2480 | 8.0 | 1 | 2 | 11 | 12.5893 | 1 | 0.0025 |
| | 2402 | -5.0 | 1 | 2 | -2 | 0.6310 | 1 | 0.0001 |
| EDR | 2441 | -5.0 | 1 | 2 | -2 | 0.6310 | 1 | 0.0001 |
| | 2480 | -5.0 | 1 | 2 | -2 | 0.6310 | 1 | 0.0001 |

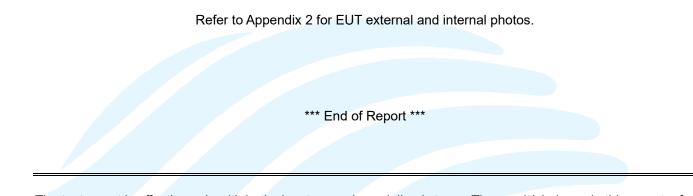


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APPENDIX 1 PHOTOS OF TEST SETUP

N/A

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS



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