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Report Template Version: V04  
Report Template Revision Date: 2018-07-06

# RF Exposure Evaluation Report

**Report No.:** CQASZ20210100152E -02  
**Applicant:** Dongguan Liesheng Electronic Co., Ltd.  
**Address of Applicant:** Room 401-410, Building 1, No.86 Hongtu Road, Nancheng District, Dongguan City, Guangdong, China.  
**Equipment Under Test (EUT):**  
**EUT Name:** Haylou Wireless Earbuds  
**Model No.:** Haylou GT6  
**Test Model No.:** Haylou GT6  
**Brand Name:** Haylou  
**FCC ID:** 2AMQ6-GT6  
**Standards:** 47 CFR Part 1.1307  
47 CFR Part 2.1093  
KDB447498D01 General RF Exposure Guidance v06  
**Date of Receipt:** 2021-02-22  
**Date of Test:** 2021-02-22 to 2021-03-10  
**Date of Issue:** 2021-03-10  
**Test Result:** **PASS\***

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

**Tested By:** Tiny You  
( Tiny You )  
**Reviewed By:** Sheek Luo  
( Sheek Luo )  
**Approved By:** Jack Ai  
( Jack Ai )



## 1 Version

### Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210100152E -02	Rev.01	Initial report	2021-03-10

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### 3 General Information

#### 3.1 Client Information

Applicant:	Dongguan Liesheng Electronic Co., Ltd.
Address of Applicant:	Room 401-410, Building 1, No.86 Hongtu Road, Nancheng District, Dongguan City, Guangdong, China.
Manufacturer:	Dongguan Liesheng Electronic Co., Ltd.
Address of Manufacturer:	Room 401-410, Building 1, No.86 Hongtu Road, Nancheng District, Dongguan City, Guangdong, China.
Factory:	Dongguan Zhengrong Electronics co. Ltd
Address of Factory:	Room 401-410, Building 1, No.86 Hongtu Road, Nancheng District, Dongguan City, Guangdong, China.

#### 3.2 General Description of EUT

Product Name:	Haylou Wireless Earbuds
Model No.:	Haylou GT6
Test Model No.:	Haylou GT6
Trade Mark:	Haylou
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.2
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK
Number of Channel:	79
Transfer Rate:	1Mbps/2Mbps
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Test Software of EUT:	FCC_assist (manufacturer declare)
Antenna Type:	Internal Antenna
Antenna Gain:	-4.15dBi
Power Supply:	lithium battery:DC3.7V 310mAh, Charge by DC5.0V

Note:

Model No.: DUDIOS T8, T16, M3, S5, S6, N6, D8, D16

Only the model DUDIOS T8 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, pack and model name.

## 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  $\leq 50$  mm are determined by:

$$\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 for 1-g SAR and  $\leq 7.5$  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 calculation<sup>17</sup>

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

### 4.1.3 EUT RF Exposure

#### Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	4.850	5.0±1	5.5	3.55
Middle(2441MHz)	4.700	5.0±1	5.5	3.55
Highest(2480MHz)	5.260	5.0±1	5.5	3.55
π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	5.530	6.0±1	5.5	3.55
Middle(2441MHz)	5.470	5.5±1	5.5	3.55
Highest(2480MHz)	6.090	6.1±1	6.10	4.074
8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	5.440	5.5±1	5.5	3.55
Middle(2441MHz)	5.480	5.5±1	5.5	3.55
Highest(2480MHz)	6.100	6.5±1	6.10	4.074

Worst case: 8DPSK mode						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	5.440	5.5±1	5.5	3.55	0.078	3.0
Middle (2441MHz)	5.480	5.5±1	5.5	3.55	0.099	
Highest (2480MHz)	6.100	6.5±1	6.10	4.074	0.100	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20210100152E-01