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RF Exposure Evaluation Report

Report No.: CQASZ20231001870E-02

Applicant: Dynanic (Shenzhen) Technology Limited

Address of Applicant: 20th Floor, Building 4, Tianan Cloud Park, Bantian St., Longgang District,

Shenzhen, China

Equipment Under Test (EUT):

EUT Name: Apollo S50 4.1 Channel Detachable Soundbar

Model No.: U3600

Test Model No.: U3600

Brand Name: ULTIMEA

 FCC ID:
 2A9OO-U3600S

 Standards:
 47 CFR Part 1.1307

 47 CFR Part 1.1310

447498 D04 Interim General RF Exposure Guidance v01

Date of Receipt: 2023-10-17

Date of Test: 2023-10-17 to 2023-11-16

Date of Issue: 2023-11-17
Test Result: PASS*

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

Tested By:

(Lewis Zhou)

Reviewed By:

(Timo Lei)

Approved By:

(Jack Ai)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.



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1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20231001870E-02	Rev.01	Initial report	2023-11-17





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3 General Information

3.1 Client Information

Applicant:	Dynanic (Shenzhen) Technology Limited			
Address of Applicant:	20th Floor, Building 4, Tianan Cloud Park, Bantian St., Longgang District, Shenzhen, China			
Manufacturer:	Dynanic (Shenzhen) Technology Limited			
Address of Manufacturer:	20th Floor, Building 4, Tianan Cloud Park, Bantian St., Longgang District, Shenzhen, China			
Factory:	SOUNDLAB TECHNOLOGY CO., LTD.			
Address of Factory:	Microlab Industrial Zone, No. 2, Baozi South Road, Kengzi Sub-district, Pingshan District, Shenzhen City, Guangdong Province, P. R. China			

3.2 General Description of EUT

Product Name:	Apollo S50 4.1 Channel Detachable Soundbar			
Model No.:	U3600			
Test Model No.:	U3600			
Trade Mark:	ULTIMEA			
Software Version:	U3600			
Hardware Version:	U3600			
EUT Power Supply:	Model No.:FX65C-240300Z			
	Input:100-240V~50/60Hz 1.5A			
	Output:24V 3A			
	Model No.:SMS-00240300-S77			
	Input:100-240V~50/60Hz 1.7A			
	Output:24V 3.0A 72W			

3.3 General Description of BT Classic

2402MHz~2480MHz		
Bluetooth Spec 5.3		
Frequency Hopping Spread Spectrum(FHSS)		
GFSK, π/4DQPSK, 8DPSK		
79		
1Mbps/2Mbps/3Mbps		
Adaptive Frequency Hopping systems		
⊠ Mobile ☐ Portable		
PCB antenna		
1.9dBi		
1.0 dB		

Note:

The above parameters will directly affect the test results. The information is provided by the applicant.



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4 MPE Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator.For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP20cm inFormula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{\text{th }}(\text{mW}) = ERP_{20 \text{ cm }}(\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of λ /4 or if the antenna gain is less than that of a half-wave Dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

4.1.2 Test Procedure

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



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4.1.3 EUT RF Exposure

1) For BT Classic

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

Measurement Data							
GFSK mode							
Test channel	EIRP	ERP	Tune up tolerance	Maximum tune-up Power			
	(dBm)	(dBm)	(dBm)	(dBm)	(mW)		
Lowest(2402MHz)	1.33	-0.82	-0.5±1	0.5	1.12		
Middle(2441MHz)	0.61	-1.54	-1.5±1	-0.5	0.89		
Highest(2480MHz)	0.16	-1.99	-2.0±1	-1.0	0.79		
	π/4DQPSK mode						
Test channel	EIRP	ERP	Tune up tolerance	Maximum tune-up Power			
	(dBm)	(dBm)	(dBm)	(dBm)	(mW)		
Lowest(2402MHz)	2.57	0.42	0.5±1	1.5	1.41		
Middle(2441MHz)	2.23	0.08	0±1	1.0	1.26		
Highest(2480MHz)	1.77	-0.38	-0.5±1	0.5	1.12		
		8DPSK	mode				
Test channel	EIRP	ERP	Tune up tolerance	Maximum tune-up Power			
	(dBm)	(dBm)	(dBm)	(dBm)	(mW)		
Lowest(2402MHz)	3.09	0.94	1.0±1	2.0	1.58		
Middle(2441MHz)	2.72	0.57	0.5±1	1.5	1.41		
Highest(2480MHz)	2.16	0.01	0±1	1.0	1.26		

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20231001870E-01 for EUT test Max Conducted Peak Output Power value.

*** END OF REPORT ***

²⁾ EUT's module is more than 20cm away from the human body.