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RF Exposure Evaluation Report

Report No. : CQASZ20190500368E-02

Applicant: Wonders Technology Co.,Ltd

Address of Applicant: 4/F, Tower A, 3rd Building, Tian'an Cloud Park, Bantian Avenue, Longgang District, Shenzhen 518129, China

Manufacturer: Wonders Technology Co.,Ltd

Address of Manufacturer: 4/F, Tower A, 3rd Building, Tian'an Cloud Park, Bantian Avenue, Longgang District, Shenzhen 518129, China

Equipment Under Test (EUT):

Product: ANC Bluetooth Headphone

All Model No.: CLOUD FOX H7, 7197-19

Test Model No.: CLOUD FOX H7

Brand Name: N/A

FCC ID: WC2-DSS22

Standards: 47 CFR Part 1.1307

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

Date of Test: 2019-05-21 to 2019-05-23

Date of Issue: 2019-05-23

Test Result : PASS*

Tested By:

Daisy Qin

(Daisy Qin)
Aaron Ma
(Aaron Ma)

Reviewed By:

Jack Ai
(Jack Ai)



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

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.

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20190500368E-02	Rev.01	Initial report	2019-05-23

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3 General Information

3.1 Client Information

Applicant:	Wonders Technology Co.,Ltd
Address of Applicant:	4/F, Tower A, 3rd Building, Tian'an Cloud Park, Bantian Avenue, Longgang District, Shenzhen 518129, China
Manufacturer:	Wonders Technology Co.,Ltd
Address of Manufacturer:	4/F, Tower A, 3rd Building, Tian'an Cloud Park, Bantian Avenue, Longgang District, Shenzhen 518129, China

3.2 General Description of EUT

Product Name:	ANC Bluetooth Headphone
All Model No.:	CLOUD FOX H7, 7197-19
Test Model No.:	CLOUD FOX H7
Trade Mark:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Transfer Rate:	1Mbps/2Mbps/3Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Test Software of EUT:	Blue Test3 (manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
Power Supply:	lithium battery:DC3.7V, Charge by DC5.0V

Note:

All model: CLOUD FOX H7, 7197-19

Only the model CLOUD FOX H7 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 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 ≤ 50 mm are determined by:

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

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

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

4.1.3 EUT RF Exposure

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance		Maximum tune-up Power
		(dBm)	(dBm)	(dBm) (mW)
Lowest(2402MHz)	2.060	1.5±1		2.5 1.778
Middle(2441MHz)	3.410	2.5±1		3.5 2.239
Highest(2480MHz)	3.550	3.0±1		4.0 2.512
π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance		Maximum tune-up Power
		(dBm)	(dBm)	(dBm) (mW)
Lowest(2402MHz)	1.730	1.0±1		2.0 1.585
Middle(2441MHz)	3.180	2.5±1		3.5 2.239
Highest(2480MHz)	3.300	2.5±1		3.5 2.239
8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance		Maximum tune-up Power
		(dBm)	(dBm)	(dBm) (mW)
Lowest(2402MHz)	1.900	1.0±1		2.0 1.585
Middle(2441MHz)	3.260	2.5±1		3.5 2.239
Highest(2480MHz)	3.350	2.5±1		3.5 2.239

Worst case: GFSK

Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	2.060	1.5±1	2.5	1.778	0.55	3.0
Middle (2441MHz)	3.410	2.5±1	3.5	2.239	0.70	
Highest (2480MHz)	3.550	3.0±1	4.0	2.512	0.79	

Conclusion: the calculated value ≤3.0, SAR is exempted.

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20190500368E-01