

RF EXPOSURE EVALUATION

EUT Specification

EUT	Wheat Recycled True Wireless Earphone with Charging					
	case					
Model Number	EC149, SL411					
FCC ID	2ABHA0098					
Antenna gain (Max)	0 dBi					
Operation Frequency	2402-2480MHz					
Input Rating	DC 3.7V					
Classification Per	§15.247(i), §2.1093					
Stipulated Test Standard						
Kind of Device: Bluetooth Ver.5.0						
Modulation	DSS:GFSK, π/4-DQPSK,8DPSK					
Max. output power	DSS: 3.05 dBm(0.002018 W)					

Test Requirement:

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f_{(GHz)}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁴ where

- f_(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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 according to 5) in section 4.1 is applied to determine SAR test exclusion.



Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval.

One antenna is available for the EUT. The minimum separation distance is 5mm.

DSS.	
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Transmit	Mada	Measure	Tune	Max tune up	Calculation	1-g
Frequency	Mode	d Power	upPower	power(dBm)	Result	SAR
(MHz)		(dBm)	(dBm)		rcouit	UAN
2.402	GFSK	0.9	0±1	1	0.000250	3
2.441	GFSK	0.58	0±1	1	0.000250	3
2.480	GFSK	-0.09	-1±1	0	0.000199	3
2.402	П/4-DQ	2.86	2±1	3	0.000397	3
	PSK					3
2.441	П/4-DQ	2.54	2±1	3	0.000397	3
	PSK					3
2.480	П/4-DQ	1.77	1±1	2	0.000315	3
2.400	PSK					3
2.402	8DPSK	3.05	3±1	4	0.000500	3
2.441	8DPSK	2.72	2±1	3	0.000397	3
2.480	8DPSK	2.16	2±1	3	0.000397	3
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According to KDB 447498, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

Signature:

Sam Lv Date: 2021-09-22