Maximum Permissible Exposure Report

FCC ID: TQYAP6256

Report No.	:	BTL-FCCP-6-2012T001
Equipment	:	SMART SPEAKER
Model Name	:	JS1830, JS1832, TD-9016A, CS10
Brand Name	:	JS, FORA, A1 CAREGIVER
Applicant	:	Jazz Hipster Corporation
Address	:	2Fd, No.512, Yuan-San Rd. Chung-Ho City, Taipei Hsien,Taiwan
FCC Rule Part(s)	:	FCC CFR Title 47, Part 2 (2.1091) FCC Guidelines for Human Exposure IEEE C95.1
Date of Receipt	:	2020/12/23
Date of Test	:	2020/12/23 ~ 2021/7/28
Issued Date	:	2021/8/17

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by : Jerry Chuang, Supervisor

Approved by : Peter Chen, Vice Manager

BTL Inc.

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

Tel: +886-2-2657-3299 Fax: +886-2-2657-3331 Web: www.newbtl.com

REVISON HISTORY

Report No.	Version	Description	Issued Date
BTL-FCCP-6-2012T001	R00	Original Report.	2021/8/17

Table for Filed Antenna

Antenna	Manufacture	Model name	Type	Connector	Frequency (MHz)	Gain (dBi)
-	JS	JS-MS1830 DVT	PCB	I-PEX	2400	3.85
					2450	4.85
					2500	4.06
					5150	4.95
					5350	4.99
					5500	4.9
					5725	5.03
					5850	5.13

Maximum RF OUTPUT POWER

Mode		Maximum Average Power (dBm)
WLAN 2.4 GHz	IEEE 802.11b	20.76
	IEEE 802.11g	23.19
	IEEE 802.11n (HT20)	23.26
RLAN 5 GHz	IEEE 802.11a	21.65
	IEEE 802.11n (HT20)	21.67
	IEEE 802.11n (HT40)	21.50
	IEEE 802.11ac (VHT80)	16.95
BT		6.59
BLE		5.56

MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:
S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

RESULTS

For BT:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
4.85	3.0549	6.59	4.5604	0.00277300	1	Complies

For BLE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
4.85	3.0549	5.56	3.5975	0.00218751	1	Complies

For 2.4G WLAN:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
4.85	3.0549	23.26	211.8361	0.12881023	1	Complies

For 5G RLAN:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
4.99	3.1550	21.67	146.8926	0.09224660	1	Complies

Note:

1. The calculated distance is 20 cm.

End of Test Report