# Shenzhen Toby Technology Co., Ltd.

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# RF Exposure Evaluation FCC ID: 2AJWO-TOKK

# 1. Client Information

**Applicant**: Pred Technologies USA, Inc.

Address : 7855 Fay Avenue, Suite 310 La Jolla, California 92037 USA

Manufacturer : Sunstar Digi Co., Ltd.

Address: 2-3 Floor F Building, Guanlong 1st Industrial Zone, Xili Town, Nanshan

District, Shenzhen, Guangdong, China

2. General Description of EUT

EUT Name	:	TOKK SMART SPEAKER PHONE				
Models No.	ě	001, 002, 003, 004, 005, 006, 007				
<b>Brand Name</b>	:	TOKK				
Model Difference		All models are identical in the same PCB layout, interior structure and electrical circuits, The only difference is model name for commercial purpose.				
Product Description		Operation Frequency:	Bluetooth 4.2: 2402~2480 MHz			
		Number of Channel:	Bluetooth: 79 Channels see Note 2			
		Max Peak Output Power:	Bluetooth: -1.372 dBm(GFSK)			
		Antenna Gain:	1.3 dBi PCB Antenna			
		Modulation Type:	GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)			
Power Supply	i	DC power by USB cable. DC power by Li-ion battery.				
Power Rating	4	DC 5V by USB Cable. DC 3.7V by 180mAh Li-ion Battery.				
Connecting I/O Port(S)	3	Please refer to the User's Manual				

#### Note:

More test information about the EUT please refer to the RF Test Report.

TB-RF-074-1. 0

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#### **SAR Test Exclusion Calculations**

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

(1) Clause 4.3: General SAR test reduction and exclusion guidance Sub clause 4.31: Standalone SAR test exclusion considerations

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]\*[  $\sqrt{f_{(GHz)}}$  ]  $\leq$ 3.0 for 1-g SAR

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]\*[  $\sqrt{f_{(GHz)}}$  ]  $\leq$ 7.5.0 for 10-g SAR



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# 2.

# Calculation:

Test separation	n: 5mm	Contract of the second			
		Bluetooth Mod	e (GFSK)	1	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-1.372	±0.5	0.818	0.254	3.0
2.441	-2.383	±0.5	0.648	0.203	3.0
2.480	-3.398	±0.5	0.513	0.162	3.0
		Bluetooth Mode (	π /4-DQPSK)		1
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-5.424	±0.5	0.322	0.100	3.0
2.441	-5.340	±0.5	0.328	0.103	3.0
2.480	-5.190	±0.5	0.340	0.107	3.0
nm)	133	Bluetooth Mode	e (8-DPSK)	1777 W	670
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-5.426	±0.5	0.322	0.100	3.0
2.441	-5.346	±0.5	0.328	0.102	3.0
2.480	-5.240	±0.5	0.336	0.106	3.0

So standalone SAR measurements are not required.

----END OF REPORT----