

RF Exposure Evaluation

FCC ID: 2ARUI-3556

1. Client Information

Applicant : American Exchange Time LLC
Address : No.1441 Broadway 27th Floor, New York, NY 10018
Manufacturer : Shenzhen KY Technology Co., Ltd
Address : No.369, BaoTian 1st RD, TieGang Industrial Park, Xixiang Town, Baoan District, ShenZhen, PRC.China.

2. General Description of EUT

EUT Name	:	Q7 sport
Models No.	:	3556, 3557, 3635
Model Different	:	All models are in the same PCB layout interior structure and electrical circuits, The only difference is model name.
Product Description	Operation Frequency:	Bluetooth V4.0: 2402MHz~2480MHz
	RF Output Power:	BLE:-2.810dBm (Max)
	Antenna Gain:	1dBi PCB Antenna
Power Supply	:	DC Voltage Supply from USB Port. DC Supply by the Li-ion Battery.
Power Rating	:	DC 5.0 V from the USB Cable. DC 3.7V by 150mAh Li-ion Battery.
Software Version	:	V2402
Hardware Version	:	V1.2
Connecting I/O Port(S)	:	Please refer to the User's Manual

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

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:

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

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

2. Calculation:

Test separation: 5mm						
BLE Mode (GFSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-2.905	-3 ± 1	-2	0.631	0.196	3.0
2.442	-2.810	-3 ± 1	-2	0.631	0.197	3.0
2.480	-3.118	-3 ± 1	-2	0.631	0.199	3.0

So standalone SAR measurements are not required.

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