

Shenzhen Toby Technology Co., Ltd.



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RF Exposure Evaluation

FCC ID: 2A8EM-S6

1. Client Information

Applicant) ·	Bigme Cloud Literacy Technology Co., Ltd.
Address		01 18F., COFCO PROPERTY TOWER, BAOMIN NO.1RD., BAO AN 3RD DISTRICT, SHENZHEN, CHINA
Manufacturer	nufacturer : Bigme Cloud Literacy Technology Co., Ltd.	
Address	dress : 01 18F., COFCO PROPERTY TOWER, BAOMIN NO.1RD., BAO AN 3RD DISTRICT, SHENZHEN, CHINA	

2. General Description of EUT

EUT Name	:	AlNote		
Model(s) No.		S6, S6+, S6 Pro, S6 Pro+, S6 Color, S6 Color+, S6 Pro Color, S6 Pro Color+, V6, V6+, V6 Pro, V6 Pro+, V6 Color, V6 Color+, V6 Pro Color, S2, S2+, S2 Pro, S2 Pro+, S2 Color, S2 Color+, S2 Pro Color+, S3, S3+, S3 Pro, S3 Pro+, S3 Color, S3 Color+, S3 Pro Color+		
Model Difference		All these models are identical in the same PCB, layout and electrical circuit, the only difference is different sales customers.		
Product Description		Operation Frequency:	Bluetooth&LE:2402MHz~2480MHz 2.4GWiFi: 2412MHz~2462MHz U-NII-1: 5180MHz~5240MHz U-NII-3: 5745MHz~5825MHz	
		Antenna Gain:	1.39dBi FPC Antenna for BT 1.65dBi FPC Antenna for 2.4G WIFI 1.68dBi FPC Antenna for U-NII-1 1.54dBi FPC Antenna for U-NII-3	
Power Rating		Input: DC 5V/2A DC 3.8V 3000mAh Rechargeable Li-ion battery		
Software Version	18	S6_R_3.7.8		
Hardware Version	:	V1.3		

Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.

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

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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

2. Summary simultaneous transmission for SAR Exclusion

The SAR exemption limits outlined in clause 4.3.2(b) of KDB 447498 have been derived based on an approximate SAR value of 0.4 W/kg using half-wave dipole antennas Footnote 1. As such, when simultaneous transmitter SAR evaluations include transmitters that have been exempt from routine SAR evaluation, the SAR must be estimating based on the ratio between the maximum tune-up tolerance limit of the transmitter that has been exempt and the exemption limit at the specific distance and frequency for that transmitter. This ratio must be multiplied by 0.4 W/kg(2.0 W/kg for controlled use and 1.0 W/kg for limb worn devices) in order to calculate the estimated SAR level.

The estimate SAR value is calculated based the following equation:

(maximum power level including tune-up tolerance for transmitter A / maximum power level of exemption at the same frequency and distance) * 0.4W/kg

1) [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]·[$\sqrt{f_{\text{(GHz)}}/x}$] W/kg, for test separation distances \leq 50 mm;

where x = 7.5 for 1-g SAR and x = 18.75 for 10-g SAR.

2) 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the *test separation distance* is > 50 mm ³⁷

The [Σ of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg] + [Σ of MPE ratios] is \leq 1.0.

The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04 , and the [Σ of MPE ratios] is ≤ 1.0 .





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3. Calculation:

Worst MPE Result								
Test Mode	Antenna	Frequency (MHz)	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
Bluetooth	Ant1	2402	3.249	3±1	4	2.512	0.779	3.0
2.4G b	Ant1	2437	7.75	7±1	8	6.310	1.970	3.0
2.4G g	Ant1	2437	7.54	7±1	8	6.310	1.970	3.0
2.4G n20	Ant1	2437	7.45	7±1	8	6.310	1.970	3.0
2.4G n40	Ant1	2452	7.63	7±1	8	6.310	1.976	3.0
5G a	Ant1	5745	5.90	5±1	6	3.981	1.910	3.0
5G n20	Ant1	5240	6.17	6±1	7	5.012	2.290	3.0
5G n40	Ant1	5190	6.07	6±1	7	5.012	2.280	3.0
5G ac20	Ant1	5180	6.15	6±1	7	5.012	2.280	3.0
5G ac40	Ant1	5190	5.98	5±1	6	3.981	1.810	3.0

Simultaneous Transmission for SAR Exclusion				
Simultaneous Transmiss	Total Calculation	Limit		
BT Ant1	2.4G/5G WIFI Ant1	Value	Lillit	
0.1059	0.3059	0.257	1.0	

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

----END OF THE REPORT----

