

RF Exposure Evaluation

FCC ID: 2AK4T-SS5TAB

1. Client Information

Applicant : Shenzhen Tideway Electronics Co., Ltd
Address : 5F, 8#Building, Yusheng Industrial Park, Gushu, Bao'an District, Shenzhen, Guangdong, China
Manufacturer : Shenzhen Tideway Electronics Co., Ltd
Address : 5F, 8#Building, Yusheng Industrial Park, Gushu, Bao'an District, Shenzhen, Guangdong, China

2. General Description of EUT

EUT Name	:	Tablet PC	
Models No.	:	SS5TAB, MOMO5 Quad, MOMO5	
Model Difference	:	All models are identical in the same PCB layout interior structure and electrical circuits, SS5TAB without battery inside, MOMO5 Quad and MOMO5 with battery inside.	
Product Description	:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
		RF Output Power:	802.11b: 9.80dBm 802.11g: 9.78dBm 802.11n (HT20): 8.75dBm 802.11n (HT40): 7.78dBm
		Antenna Gain:	2dBi FPC Antenna
Power Supply	:	DC Voltage Supply from USB Port. DC Supply by the Battery.	
Power Rating	:	DC 5.0 V from the USB Cable. DC 3.7V by Li-ion Battery.	
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						
WiFi Mode(802.11b)						
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
2.412	9.76	9±0.8	9.8	9.550	2.966	3.0
2.437	9.80	9±0.8	9.8	9.550	2.982	3.0
2.462	9.40	9±0.8	9.8	9.550	2.997	3.0
WiFi Mode(802.11g)						
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
2.412	9.16	9±0.8	9.8	9.550	2.966	3.0
2.437	9.78	9±0.8	9.8	9.550	2.982	3.0
2.462	9.22	9±0.8	9.8	9.550	2.997	3.0
WiFi Mode(802.11n(HT20))						
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
2.412	8.52	8±1	9	7.943	2.467	3.0
2.437	8.33	8±1	9	7.943	2.480	3.0
2.462	8.75	8±1	9	7.943	2.493	3.0
WiFi Mode(802.11n(HT40))						
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
2.422	7.78	7±1	8	6.310	1.964	3.0
2.437	7.30	7±1	8	6.310	1.970	3.0
2.452	7.29	7±1	8	6.310	1.976	3.0

So standalone SAR measurements are not required.

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