

RF Exposure Evaluation

FCC ID: FSUGMZM4

1. Client Information

Applicant	:	KYE SYSTEMS CORP.
Address	:	No. 492, Sec. 5, Chongxin Rd., Sanchong Dist., New Taipei City 24160, Taiwan (R.O.C.)
Manufacturer	:	ShenZhen Senbiz Industry Co.,Ltd
Address	:	Building A, No 11, 1st row, Xinfu Industrial Zone, XingQiao, ShaJing Town, Bao'an District, ShenZhen, Guangdong, China 518125

2. General Description of EUT

EUT Name	:	Wireless Dongle
Models No.	:	GK-210013/R, LuxeMate Q8000/R, LuxeMate Q8100/R, LuxeMate Q8100/R, LuxeMate XXXXX/R, X-XXXXXX or XXX-XXXXXX("X"Can be 0-9 & A-Z)
Model Difference	:	All PCB boards and circuit diagrams are the same, the only difference is that names.
Product Description	:	Operation Frequency: 2.4G: 2405MHz~2475MHz
	:	Number of Channel: 2.4G: 15 channels
	:	RF Output Power: 2.4G:-10.678dbm(Max)
	:	Antenna Gain: 0dBi PCB Antenna
	:	Modulation Type: GFSK
	:	Bit Rate of Transmitter: 1Mbps
Power Supply	:	Input: DC 5V
Software Version	:	5.9
Hardware Version	:	V1
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.

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:

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

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

2. Calculation:

Test separation: 5mm						
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
2.405	-10.678	-10±1	-9	0.126	0.039	3.0
2.451	-11.065	-11±1	-10	0.100	0.031	3.0
2.475	-11.239	-11±1	-10	0.100	0.031	3.0

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 REPORT-----