# FCC RF Exposure

EUT Description: USB wifi adapter
Model No.: M-1200Y
FCC ID: 2AKZS-M1200Y

1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 The 1‑g and 10‑g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤50 mm are determined by: [(max power of channel, including tune‑up tolerance, mW)/(min. test separation distance, mm)] •[ √ f(GHz)]≤3.0 for 1‑g SAR and ≤ 7.5 for 10‑g extremity SAR,

Where:

Result=P √ F/D
F= the RF channel transmit frequency in GHz
P=Maximum turn‑up power in mw
D=Min. test separation distance in mm

2. Test Result of RF Exposure Evaluation
2.4G

| | Output power （dBm） | Tune Up Power （dBm） | Max Tune Up power dBm/mW | Min test separation distance mm | Result | Limit (mW/cm$^2$) | SAR Test Exclusion |
|---|---|---|---|---|---|---|---|
| 802.11b | 8.23 | 8±1 | 9/7.94 | 5 | 2.479 | 3.0 | Pass |
| 802.11g | 7.88 | 8±1 | 9/7.94 | 5 | 2.466 | 3.0 | Pass |
| 802.11n(HT20) | 7.66 | 8±1 | 9/7.94 | 5 | 2.479 | 3.0 | Pass |
| 802.11n(HT40) | 6.81 | 7±1 | 8/6.31 | 5 | 1.970 | 3.0 | Pass |
| Note: PK Output power= conducted power. Conducted power see the test report HK180413203-E, antenna gain=1dBi | | | | | | | |

5.2G

| | Output power（dBm） | Tune Up Power（dBm） | Max Tune Up power dBm/mW | Min test separation distance mm | Result | Limit (mW/cm$^2$) | SAR Test Exclusion |
|---|---|---|---|---|---|---|---|
| 11a | 4.71 | 5±1 | 6/3.98 | 5 | 1.815 | 3.0 | Pass |
| 11n/HT20 | 3.77 | 4±1 | 5/3.16 | 5 | 1.438 | 3.0 | Pass |
| 11n/HT40 | 3.09 | 4±1 | 5/3.16 | 5 | 1.445 | 3.0 | Pass |
| Note: PK Output power= conducted power. Conducted power see the test report HK180413204-E, antenna gain=2dBi | | | | | | | |

5.8G

| | Output power（dBm） | Tune Up Power（dBm） | Max Tune Up power dBm/mW | Min test separation distance mm | Result | Limit (mW/cm$^2$) | SAR Test Exclusion |
|---|---|---|---|---|---|---|---|
| 11a | 4.25 | 5±1 | 6/3.98 | 5 | 1.914 | 3.0 | Pass |
| 11n/HT20 | 3.56 | 4±1 | 5/3.16 | 5 | 1.515 | 3.0 | Pass |
| 11n/HT40 | 3.19 | 4±1 | 5/3.16 | 5 | 1.516 | 3.0 | Pass |
| Note: PK Output power= conducted power. Conducted power see the test report HK180413204-E, antenna gain=2dBi | | | | | | | |

Note: Exclusion Thresholds Results=[(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] · [ $\sqrt{f_{(GHz)}}$ ]

f$_{(GHz)}$ is the RF channel transmit frequency in GHz

Distance=5mm