

FCC RF Exposure

EUT Description: usb wifi adapter

Model No.: H108, H108Plus, H108Pro, M-1200FR, M-1200NR

FCC ID: 2A47H-H108

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:

$$[(\text{max power of channel, including tune - up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1 - g SAR and ≤ 7.5 for 10 - g extremity SAR,

Where:

Result= $P/D^2 \cdot \sqrt{F}$

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

BT/WIFI

Frequency (MHz)	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
2.4G WIFI Ant. 1 2437	5.99	5 ± 1	6/3.98	5	1.243	3.0	Pass
2.4G WIFI Ant. 2 2462	5.95	5 ± 1	6/3.98	5	1.249	3.0	Pass
MIMO 2462	8.65	8 ± 1	9/7.94	5	2.492	3.0	Pass
5.2G WIFI Ant. 1 5200	4.68	4 ± 1	5/3.16	5	1.441	3.0	Pass
5.2G WIFI Ant. 2 5240	4.95	4 ± 1	5/3.16	5	1.447	3.0	Pass
MIMO 5240	7.67	7 ± 1	8/6.31	5	2.889	3.0	Pass
5.8G WIFI Ant. 1 5745	3.86	3 ± 1	4/2.51	5	1.203	3.0	Pass
5.8G WIFI Ant. 2 5745	3.96	3 ± 1	4/2.51	5	1.203	3.0	Pass
MIMO 5745	6.70	6 ± 1	7/5.01	5	2.402	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2202170428-1E/2E/3E**, antenna gain=3.5Bi

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 2.889 which is ≤ 3 , RF Exposure testing is not required.

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

$f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz

Distance=5mm