RF Exposure Evaluation

According to KDB 447498 D01 General RF Exposure Guidance v06 and part 2.1093，
Unless specifically required by the published RF exposure KDB procedures, standalone
1-g head or body and 10-g extremity SAR evaluation for general population exposure
conditions, by measurement or numerical simulation, is not required when the
corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test
exclusion thresholds are determined by the following:
[(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
    f$_{(GHz)}$ is the RF channel transmit frequency in GHz
    Power and distance are rounded to the nearest mW and mm before calculation
    The result is rounded to one decimal place for comparison

Here,

Test Result of RF Exposure Evaluation

2.4G WIFI mode						
Mode	Output power to antenna (dBm)	Output power to antenna (mW)	Frequency (MHz)	Calc. thresholds	Limit	Result
802.11b	6.913	4.91	2480	1.55	3.0	PASS
802.11g	7.142	5.18	2412	1.61	3.0	PASS
802.11n20	8.267	6.71	2412	2.08	3.0	PASS
802.11n40	8.631	7.30	2412	2.27	3.0	PASS

Remark: 802.11 /b/g/n antenna gain= 3.56dBi(Max)

5.2G WIFI mode						
Mode	Output power to antenna (dBm)	Output power to antenna (mW)	Frequency (MHz)	Calc. thresholds	Limit	Result
802.11a	7.059	5.08	5180	2.31	3.0	PASS
802.11n20	5.946	3.93	5180	1.79	3.0	PASS
802.11n40	5.757	3.76	5180	1.71	3.0	PASS

5.8G WIFI mode						
Mode	Output power to antenna (dBm)	Output power to antenna (mW)	Frequency (MHz)	Calc. thresholds	Limit	Result
802.11a	7.045	5.06	5785	2.44	3.0	PASS
802.11n20	6.406	4.37	5825	2.11	3.0	PASS
802.11n40	6.019	4.00	5795	1.93	3.0	PASS

Remark: 802.11a/b/g/n antenna gain= 3.90dBi(Max)

2.4G WIFI + 5G WIFI			
Mode	Calc. thresholds	Limit	Result
802.11b + 802.11a	2.27/3+2.44/3=1.57	3.0	PASS

So a SAR test is not required