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,
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

For Wi-Fi

Max Conducted Power(dBm)	Tune-up Power(dBm)	Max Tune-up Power(dBm)	Max Power(mW)	Frequency(MHz)	Min. distance(mm)	Calc. thresholds	limit
7.14	7(±1)	8	6.31	2412	5	1.95996	3.0

For BLE

Max Conducted Power(dBm)	Tune-up Power(dBm)	Max Tune-up Power(dBm)	Max Power(mW)	Frequency(MHz)	Min. distance(mm)	Calc. thresholds	limit
0.94	0(±1)	1	1.26	2402	5	0.39056	3.0

NFC 13.56MHz:

Transmit Frequency (GHz)	Measured Power (dBμV/m)	Measured Power (dBm)	Tune-up power (dBm)	Max tune-up power(dBm)	Result calculation	limit	SAR Test Exclusion
0.01356	60.44	-34.82	-34±1	-33	0.0005	3	Yes

Notes:

E=EIRP-20log D+104.8

E = electric field strength in dBuV/m.

EIRP = equivalent isotropic radiated power in dBm,

D = specified measurement distance in meters.

EIRP=E-104.8+20logD, D=3

Conclusion:

For the max result: Total Calc. thresholds = 0.0005/3+0.39056/3+1.95996/3=0.785353 < 1.0 for 1g SAR, No SAR is required.

******** END OF REPORT ********