Appendix 5

RF Exposure Information

Maximum transmitter power:

Frequency (MHz)	Maximum peak output power (dBm)	Output power(mW)
13.560	-57.27	1.88e-6
2402	2.35	1.718
2440	1.98	1.578
2480	1.19	1.315

According to KDB 447498 D01:

RFID
The threshold for frequency 13.560MHz and *test separation distances* ≤ 50 mm is:443mW

BLE
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:

$$[(\textit{max. power of channel, including tune-up tolerance, mW})/(\textit{min. test separation distance, mm})] \cdot [\sqrt{f_{(GHz)}}] \leqslant 3.0$$

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 calculation25
• The result is rounded to one decimal place for comparison
• 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

Result:
$(1.718/5) * \sqrt{2.402} = 0.533 < 3.0$
$(1.578/5) * \sqrt{2.440} = 0.493 < 3.0$
$(1.315/5) * \sqrt{2.480} = 0.414 < 3.0$

Overall Conclusion:
No SAR is required.