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RF Exposure evaluation

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

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 Exclusion Threshold condition, listed below, is satisfied.

The 1-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)] • [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g 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
- When the minimum test separation distance is < 5 mm, a distance of 5 mm according is applied to determine SAR test exclusion.

The worst case (refer to report ST9320 FCC18030080A) is below:

| Operational | Mode: | π/4-DQPSK |
|-------------|-------|--------------------------|
| Operational | woue. | 11/ 1 -DQ1 3N |

| | • | | | | | | | | | |
|---|---------|------------------------|-----------------------|------------------------------|-----------------------------------|----------------------------------|--------------------------|--------|---|--|
| | Channel | Max. Power (dBm) | Max. Power (mW) | Tune Up Power (dBm) | Max. Tune Up Power (dBm) | Max. Tune Up Power (mW) | Test Distance (mm) | Result | Standalone SAR test exclusion Threshold | |
| 0 | Lowest | 2.51 | 1.78 | 3.0 ± 1.0 | 4.0 | 2.51 | <5.00 | 0.36 | | |
| | Middle | 2.30 | 0.67 | 3.0 ± 1.0 | 4.0 | 2.51 | <5.00 | 0.37 | 3.00 | |
| | highest | 2.20 | 0.50 | 3.0 ± 1.0 | 4.0 | 2.51 | <5.00 | 0.37 | | |
| | | | | | | | | | | |

Conclusion: the calculated value ≤3.0, SAR is exempted.

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