## FCC ID: 2AA7SRFBTAUX

## RF EXPOSURE TEST

SAR Test Exclusion Thresholds for $100 \mathrm{MHz}-\mathbf{6} \mathbf{~ G H z}$ and $\leqslant 50 \mathrm{~mm}$
Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

| MHz | 5 | 10 | 15 | 20 | 25 | mm |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 150 | 39 | 77 | 116 | 155 | 194 | SAR Test <br> Exclusion <br> Threshold (mW) |
| 300 | 27 | 55 | 82 | 110 | 137 |  |
| 450 | 22 | 45 | 67 | 89 | 112 |  |
| 835 | 16 | 33 | 49 | 66 | 82 |  |
| 900 | 16 | 32 | 47 | 63 | 79 |  |
| 1500 | 12 | 24 | 37 | 49 | 61 |  |
| 1900 | 11 | 22 | 33 | 44 | 54 |  |
| 2450 | 10 | 19 | 29 | 38 | 48 |  |
| 3600 | 8 | 16 | 24 | 32 | 40 |  |
| 5200 | 7 | 13 | 20 | 26 | 33 |  |
| 5400 | 6 | 13 | 19 | 26 | 32 |  |
| 5800 | 6 | 12 | 19 | 25 | 31 |  |
| MHz | 30 | 35 | 40 | 45 | 50 | mm |
| 150 | 232 | 271 | 310 | 349 | 387 | SAR TestExclusionThreshold (mW) |
| 300 | 164 | 192 | 219 | 246 | 274 |  |
| 450 | 134 | 157 | 179 | 201 | 224 |  |
| 835 | 98 | 115 | 131 | 148 | 164 |  |
| 900 | 95 | 111 | 126 | 142 | 158 |  |
| 1500 | 73 | 86 | 98 | 110 | 122 |  |
| 1900 | 65 | 76 | 87 | 98 | 109 |  |
| 2450 | 57 | 67 | 77 | 86 | 96 |  |
| 3600 | 47 | 55 | 63 | 71 | 79 |  |
| 5200 | 39 | 46 | 53 | 59 | 66 |  |
| 5400 | 39 | 45 | 52 | 58 | 65 |  |
| 5800 | 37 | 44 | 50 | 56 | 62 |  |

The $1-\mathrm{g}$ and $10-\mathrm{g}$ SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances $\leqslant 50 \mathrm{~mm}$ are determined by:
$[($ max. power of channel, including tune-up tolerance, $m W) /($ min. test separation distance, $m m)]$ • $\left[\checkmark \mathrm{f}_{(\mathrm{GHz})}\right] \leqslant 3.0$ for $1-\mathrm{g}$ SAR and $\leqslant 7.5$ for 10 -g extremity SAR, 16 where
$\square \mathrm{f}_{(\mathrm{GHz})}$ is the RF channel transmit frequency in GHzPower and distance are rounded to the nearest mW and mm before calculation 17
$\square$ The result is rounded to one decimal place for comparison
The test exclusions are applicable only when the minimum test separation distance is $\leqslant 50 \mathrm{~mm}$ and for transmission frequencies between 100 MHz and 6 GHz . When the minimum test separation distance is $<5 \mathrm{~mm}$, a distance of 5 mm is applied to determine SAR test exclusion.

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Maximum measured transmitter power.

## GFSK

$\left.$| frequency |
| :---: | :---: | :---: |
| range | | Maximum Peak |
| :---: |
| Conducted Output Power |
| $(\mathrm{dBm})$ |$\quad$| Maximum |
| :---: |
| Conducted |
| Output Power |
| $(\mathrm{mW})$ | \right\rvert\,

П/4-DQPSK

$\left.$| frequency |
| :---: | :---: | ---: |
| range | | Maximum Peak <br> Conducted Output Power <br> $(\mathrm{dBm})$ |
| :---: | | Maximum |
| :---: |
| Conducted |
| Output Power |
| (mW) | \right\rvert\,

## 8-DPSK

$\left.$| frequency |
| :---: | :---: | :---: |
| range | | Maximum Peak |
| :---: |
| Conducted Output Power |
| (dBm) |$\quad$| Maximum |
| :---: |
| Conducted |
| Output Power |
| (mW) | \right\rvert\,

The max.output power is $-0.053 \mathrm{dBm}=0.98787 \mathrm{~mW}$, Frequency is 2.402 GHz So ( $0.98787 / 5$ )* $\sqrt{ } 2.402=0.306 \leqslant 3.0$
The max.output power is $-2.789 \mathrm{dBm}=0.53 \mathrm{~mW}$, Frequency is 2.441 GHz
So $(0.53 / 5)^{*} \sqrt{ } 2.441=0.165 \leqslant 3.0$

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The max.output power is $-4.391 \mathrm{dBm}=0.36 \mathrm{~mW}$, Frequency is 2.48 GHz
So $(0.36 / 5)^{*} \sqrt{ } 2.48=0.113 \leqslant 3.0$

Note: $\sqrt{ } 2.402=1.550, \sqrt{ } 2.441=1.56, \sqrt{ } 2.48=1.57$
Conclusion: No SAR is required.

