

World Standardization Certification & Testing Group Co., Ltd.





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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  $\leq$  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 SR250 WSCT-NVLAP-R&E190900021A-BT) is below: Standalone Tune Max. Max. Max. Max. Test SAR Up Tune Up Tune Up Channel Power Power Distance Result test Power Power Power (dBm) (mW) exclusion (mm)(dBm) (dBm) (mW) Threshold Lowest  $3.0 \pm 1.0$ 2.51 3.68 2.33 4.0 < 5.00 0.79 Middle 3.73 2.36  $3.0\!\pm\!1.0$ 4.0 2.51 < 5.00 0.79 3.00 3.33 2.15  $2.5 \pm 1.0$ 3.5 2.24 0.70 highest < 5.00

Conclusion: the calculated value  $\leq$ 3.0, SAR is exempted.

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|    | The worst case (refer to report SR250 WSCT-NVLAP-R&E190900021A-BLE) is below: |                        |                       |                              |                                   |                                  |                          |        |   |   |
|----|---|------------------------|-----------------------|------------------------------|-----------------------------------|----------------------------------|--------------------------|--------|---|---|
| 7  | Channel   | Max.<br>Power<br>(dBm) | Max.<br>Power<br>(mW) | Tune<br>Up<br>Power<br>(dBm) | Max.<br>Tune Up<br>Power<br>(dBm) | Max.<br>Tune Up<br>Power<br>(mW) | Test<br>Distance<br>(mm) | Result | Standalone<br>SAR<br>test<br>exclusion<br>Threshold | ~ |
|    | Lowest  | 1.11                   | 1.29                  | $0.5 \pm 1.0$                | 1.5                               | 1.41                             | <5.00                    | 0.44   |   |   |
|    | Middle  | 1.07                   | 1.28                  | $0.5 \pm 1.0$                | 1.5                               | 1.41                             | <5.00                    | 0.44   | 3.00  | 2 |
| -/ | highest   | 0.79                   | 1.20                  | $0.0 \pm 1.0$                | 1.0                               | 1.26                             | <5.00                    | 0.39   |   | Γ |
|    | Conclusion:   |                        |                       | ]                            |                                   |                                  |                          |        |   |   |
| 7  | WSET  |                        |                       | WSET                         |                                   | WSET                             |                          | WSET   |   |   |
|    |   |                        |                       | /                            |                                   | /                                |                          | /      |   | 1 |

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