

# RF Exposure Report – Transcore 051181

Test 241119

## Transcore Model: 051181

### FCC IC SAR Exclusion

4.3.1. Standalone SAR test exclusion considerations

**100 MHz to 6 GHz at separation distance less than or equal to 50 mm**

### SAR Test Exclusion Calculator

**Insert values in yellow highlighted boxes to determine SAR Exclusion**

Max Power **4.0500** mW

Min Separation **5** mm

Frequency **0.915** GHz

**When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.**

**Answer**

**0.8 Must be less than or equal to 3.0 for SAR Exclusion**

**KDB 628591 D01 TCB Exclusion List v14 TCBs are excluded from granting if: General Population: The Answer is equal to or greater than 24 (8x threshold) Controlled Use: The Answer is equal to or greater than 60 (20x threshold) and, when published RF exposure KDB procedures are not established for SAR testing or when SAR data is not provided to support compliance.**

**Please also note the following: [FCC KDB quote] These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface. [End quote]**

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**Table 11: SAR evaluation – Exemption limits for routine evaluation based on frequency and separation distance**

| Frequency (MHz) | ≤4 mm (mW) | 10 mm (mW) | 15 mm (mW) | 20 mm (mW) | 25 mm (mW) |
|-----------------|------------|------------|------------|------------|------------|
| ≤ 300           | 45         | 116        | 139        | 163        | 189        |
| 450             | 32         | 71         | 87         | 104        | 124        |
| 835             | 21         | 32         | 41         | 54         | 72         |
| 1900            | 6          | 10         | 18         | 33         | 57         |
| 2450            | 3          | 7          | 16         | 32         | 56         |
| 3500            | 2          | 6          | 15         | 29         | 50         |
| 5800            | 1          | 5          | 13         | 23         | 32         |

| Frequency (MHz) | 30 mm (mW) | 35 mm (mW) | 40 mm (mW) | 45 mm (mW) | ≥50 mm (mW) |
|-----------------|------------|------------|------------|------------|-------------|
| ≤ 300           | 216        | 246        | 280        | 319        | 362         |
| 450             | 147        | 175        | 208        | 248        | 296         |
| 835             | 96         | 129        | 172        | 228        | 298         |
| 1900            | 92         | 138        | 194        | 257        | 323         |
| 2450            | 89         | 128        | 170        | 209        | 245         |
| 3500            | 72         | 94         | 114        | 134        | 158         |
| 5800            | 41         | 54         | 74         | 102        | 128         |

The device operating with 4.05 mW output power and maintaining 5 mm distance complies with the requirements of

Rogers Labs, a division of The Compatibility Center LLC

7915 Nieman Road HVIN : 051181

Lenexa, KS 66214 Test: 241120 FCC ID: FIH051114 IC: 1584A-051114

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137, RSS-102 Issue 6

Revision 2 File: 051181 RFExp r2

Transcore

PMN : 051181 SN: N/A

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