

RF Exposure Report – Transcore 051183

Test	241120						
Transcore Model: 051183							
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	10.6444	mW	
Min Separation	5	mm	When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to
Frequency	0.915	GHz	determine SAR test exclusion.
FCC Calculation:	2.0		
FCC Result:	PASS		Must be less than or equal to 3.0 for SAR Exclusion
ISED RSS-102 Limit:	19.9	mW	Linear interpretation of Table 11 at this operating frequency
ISED Result	PASS		Max Power is less than the 5mm exemption limit at this operating frequency

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)	≤5 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