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RF Exposure Evaluation

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1Standalone SAR test exclusion considerations: Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremitySAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Thresholdcondition(s), listed below, is (are) satisfied. These test exclusion conditions are based onsource-based time-averaged maximum conducted output power of the RF channerequiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance defined in 4.1 f) is determined by the smallest distance from the antenna and radiatingstructures or outer surface of the device, according to the host form factor, exposureconditions and platform requirements, to any part of the body or extremity of a user orbystander. To qualify for SAR test exclusion, the test separation distances applied must befully explained and justified, typically in the SAR measurement or SAR analysis report, by the operating configurations and exposure conditions of the transmitter and applicable hostplatform requirements, according to the required published RF exposure KDB procedures.When no other RF exposure testing or reporting are required, a statement of justificationand compliance must be included in the equipment approval, in lieu of the SAR report, toaualify for SAR test exclusion. When required, the device specific conditions described in he other published RF exposure KDB procedures must be satisfied before applying theseSAR test exclusion provisions; for example, handheld PTT two-way radios, handsets.laptops and tablets, etc.

c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion(also illustrated in Appendix C):1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by[1 + log(100/f(MHz))]

2) For test separation distances \le 50 mm, the power threshold determined by the equationin c)1)for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$

(1) Pb(mw)*[1+og(100/f(MHz))]=474mW*[1+0g(100/f(MHz))](2) Pb(mW)*[1+0g(100/(MHz))]*0.5=474mW*[1+l0g(100/f(MHz))]*0.5=237*[1+10g(100/f(MHz))]

Test Procedure:

TX frequency range: 13.56MHz

Device category: Stationary type equipment (Distance: 20cm) Max.Field Strength: 70.83dBuV/m @3m EIRP=E-104.7+20l0gD=70.83-104.7+20l0g3=-24.32dBm

Here,

	Min. Distance	Max Power	Tune-up power	Max Power	Limit	SAR Test
Frequency(MHz)	(cm)	(dBm)	(dBm)	(mW)	(mW)	Exclusion
13.56	20	-24.32	-24+1	0.0032	885.309	Yes

So a SAR test is not required