FCC ID: 2APD7-B2D

## RF Exposure Evaluation

## Limits

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR testexclusion 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 conditionsby measurement or numerical simulation, is not required when the corresponding SAR Test ExclusionThreshold condition. listed below. is satisfied. These test exclusion conditions are based on source-basedtime-averaged maximum conducted output power of the RF channel requiring evaluation. adjusted for tune-upolerance, and the minimum test separation distance required for the exposure conditions.22 The minimumtest separation distance is determined by the smallest distance from the antenna and radiating structures orouter surface of the device, according to the host form factor, exposure conditions and platform requirements to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR testexclusion, the test separation distances applied must be fully explained and lustfied by the operatingconfigurations and exposure conditions of the transmitter and applicable host platform requirements, typicallyin the SAR measurement or SAR analysis report, according to the required published RF exposure KDBprocedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR testexclusion. When required, the device specific conditions described in the other published RF exposure KDBprocedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTTtwo-way radios, handsets, laptops & tablets etc.23

[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] • [/f(GHz)]< 3.0 for 1-g SAR and < 7.5 for 10-g extremity 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

The result is rounded to one decimal place for comparison

3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is < 50 mm and fortransmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

## **Test Result of RF Exposure Evaluation**

: SRD 900MHz

Test Mode	F(GHz)	Antenna Distance	Output power to antenna		SAR Test Exclusion	SAR Limit	SAR Test
		(mm)	dBm	mW	Threshold		Exclusion
lowest	0.906	5	7.103	5.13215	0.976998943	≤3.0 for 1-g SAR	Yes
middle	0.916	5	7.938	6.22013	1.1906325	≤3.0 for 1-g SAR	Yes
Highest	0.926	5	8.391	6.90398	1.32872617	≤3.0 for 1-g SAR	Yes

Remark: antenna gain=0.92dBi

## **Conclusion of RF exposure assessment test**

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposureand SAR Exclusion Threshold per KDB 447498 v06