RF Exposure Evaluation Statement

Product Name: Vehicle Audio System

Model No.: R3000, R3500 FCC ID: 2AFN3-R3000R3500

1.1 RF Exposure Compliance Requirement

1.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

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.

1.1.2 Limits

The 1-g and 10-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)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 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 17

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

1.1.3 EUT RF Exposure

Occasional Marks BBB (OFOK continue)						
Operational Mode: BDR (GFSK worst case)						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune (dBm)	-up Power (mW)	Calculated value	Exclusion threshold
2402 MHz	0.528	±1	1.528	1.42	0.44	
2441 MHz	-1.51	±1	-0.51	0.89	0.28	3.0
2480 MHz	-2.76	±1	-1.76	0.67	0.21	
Operational Mode: BLE (worst case)						
2402 MHz	0.00	±1	1.00	1.26	0.39	
2442 MHz	-0.34	±1	0.66	1.16	0.36	3.0
2480 MHz	-0.51	<u>±</u> 1	0.49	1.12	0.35	
Conclusion: the calculated value ≤3.0, SAR is exempted.						