



APPENDIX E: SENSOR TRIGGERING DATA

FCC ID: A3LSWDC01E		SAR EVALUATION REPORT		Reviewed by: Quality Manager
Test Dates: 08/27/12 - 10/04/12	DUT Type: Portable Tablet			Page E1 of E4

A3LSWDSC01E Sensor Triggering Data Summary

Per FCC Draft KDB Publication 616217, this device was tested by the manufacturer to determine the proximity sensor triggering distances for the back and top edge of the device. The measured output power within ± 5 mm of the triggering points (or until touching the phantom) is included for back side and each applicable edge.

To ensure all production units are compliant it is necessary to test SAR at a distance 1mm less than the smallest distance from the device and SAR phantom (determined from these triggering tests according to the KDB 616217 draft) with the device at maximum output power without power reduction. These additional SAR Tests are included additionally to the SAR tests for the device touching the SAR phantom, with reduced power.

Back Side



Moving device toward the phantom:

KDB 616217 V.A-6											
Measured Power [dBm]											
Distance[mm]	16	15	14	13	12	11	10	9	8	7	6
GPRS850 1Tx	31.51	31.51	31.49	31.51	31.52	26.01	26.02	25.98	26.02	26.02	26.02
GPRS850 2Tx	29.48	29.47	29.48	25.01	29.48	21.46	21.47	21.48	21.47	21.49	21.47
GPRS850 3Tx	27.01	27.02	27.02	27.02	27.02	20.49	20.52	20.52	20.51	20.52	20.51
GPRS850 4Tx	25.98	25.98	25.97	25.98	25.99	19.49	19.47	19.47	19.47	19.47	19.47
GPRS1900 1Tx	28.01	28.03	28.03	28.03	28.03	24.01	24.02	24.02	24.03	24.02	24.02
GPRS1900 2Tx	25.48	25.48	25.46	25.48	25.47	21.97	21.97	21.99	21.97	21.97	21.97
GPRS1900 3Tx	24.51	24.51	24.51	24.51	24.50	20.51	20.52	20.52	20.53	20.52	20.52
GPRS1900 4Tx	23.52	23.53	23.52	23.51	23.52	19.01	18.97	18.97	18.97	19.02	18.97
WCDMA850	22.50	22.50	22.50	22.50	22.49	17.51	17.51	17.53	17.51	17.51	17.51
EDGE850 1Tx	26.52	26.52	26.54	26.52	26.52	24.52	24.51	24.52	24.54	24.52	24.52
EDGE850 2Tx	24.98	24.98	24.98	24.98	24.99	19.97	19.97	19.99	19.97	19.97	19.97
EDGE850 3Tx	23.03	22.98	23.03	23.03	23.03	19.51	19.51	19.52	19.52	19.52	19.49
EDGE850 4Tx	21.47	21.47	21.47	21.47	21.48	18.47	18.51	18.53	18.51	18.51	18.51
EDGE1900 1Tx	26.02	26.01	26.02	26.02	26.02	23.02	23.03	23.03	22.98	23.03	23.03
EDGE1900 2Tx	24.03	24.03	24.03	23.97	24.03	19.99	19.98	19.97	19.97	19.99	19.97
EDGE1900 3Tx	22.97	22.97	22.97	22.97	22.98	19.51	19.51	19.53	19.51	19.51	19.51
EDGE1900 4Tx	21.04	21.02	21.04	21.01	21.04	18.01	18.03	18.03	18.03	18.02	18.03

Moving device away from the phantom:

KDB 616217 V.A.8															
Measured Power [dBm]															
Distance[mm]	22	19	16	15	14	13	12	11	10	9	8	7	6	3	0
GPRS850 1Tx	31.51	31.52	31.51	31.51	31.51	31.49	31.52	31.51	26.01	26.01	26.01	26.02	26.02	26.02	26.01
GPRS850 2Tx	29.49	29.47	29.47	29.47	29.47	29.48	29.48	25.01	21.46	21.46	21.46	21.47	21.49	21.47	21.46
GPRS850 3Tx	27.02	26.98	27.02	27.02	27.02	27.02	27.02	27.02	20.49	20.49	20.49	20.52	20.52	20.51	20.49
GPRS850 4Tx	25.98	25.98	25.99	25.98	25.98	25.97	25.99	25.98	19.49	19.49	19.49	19.47	19.47	19.47	19.49
GPRS1900 1Tx	28.03	28.03	28.03	28.03	28.03	28.03	28.03	28.03	24.01	24.01	24.01	24.02	24.02	24.02	24.01
GPRS1900 2Tx	25.48	25.47	25.48	25.48	25.48	25.46	25.47	25.48	21.97	21.97	21.98	21.97	21.97	21.97	21.97
GPRS1900 3Tx	24.52	24.51	24.51	24.53	24.51	24.51	24.50	24.51	20.51	20.51	20.51	20.52	20.52	20.52	20.51
GPRS1900 4Tx	23.53	23.49	23.53	23.53	23.53	23.52	23.52	23.51	19.01	19.01	19.01	18.97	19.02	18.97	19.01
WCDMA850	22.50	22.50	22.51	22.50	22.50	22.50	22.49	22.50	17.51	17.51	17.50	17.51	17.51	17.51	17.51
EDGE850 1Tx	26.52	26.53	26.52	26.52	26.52	26.54	26.52	26.52	24.52	24.52	24.51	24.51	24.52	24.52	24.52
EDGE850 2Tx	24.98	24.98	25.02	24.98	24.98	24.98	24.99	24.98	19.97	19.97	19.98	19.97	19.97	19.97	19.97
EDGE850 3Tx	22.98	22.97	22.98	22.98	22.98	23.03	23.03	23.03	19.51	19.51	19.51	19.51	19.52	19.49	19.51
EDGE850 4Tx	21.52	21.47	21.47	21.47	21.47	21.47	21.48	21.47	18.47	18.47	18.48	18.51	18.51	18.51	18.47
EDGE1900 1Tx	26.01	26.03	26.01	26.01	26.01	26.02	26.02	26.02	23.02	23.02	22.98	23.03	23.03	23.03	23.02
EDGE1900 2Tx	24.03	24.03	24.01	24.03	24.03	24.03	24.03	23.97	19.99	19.99	20.02	19.98	19.99	19.97	19.99
EDGE1900 3Tx	22.99	22.97	22.97	22.97	22.97	22.97	22.98	22.97	19.51	19.51	19.49	19.51	19.51	19.51	19.51
EDGE1900 4Tx	21.02	21.02	20.98	21.02	21.02	21.04	21.04	21.01	18.01	18.01	17.98	18.03	18.02	18.03	18.01

Based on the most conservative measured triggering distance of 11 mm, additional SAR measurements were required at 10 mm from the back side.

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Right Edge



Moving device horizontally toward the phantom:

KDB 616217 V.A-6 Measured Power [dBm]											
Distance[mm]	11	10	9	8	7	6	5	4	3	2	1
GPRS850 1Tx	31.51	31.51	31.49	31.51	31.52	26.01	26.02	25.98	26.02	26.02	26.02
GPRS850 2Tx	29.48	29.47	29.48	25.01	29.48	21.46	21.47	21.48	21.47	21.49	21.47
GPRS850 3Tx	27.01	27.02	27.02	27.02	27.02	20.49	20.52	20.52	20.51	20.52	20.51
GPRS850 4Tx	25.98	25.98	25.97	25.98	25.99	19.49	19.47	19.47	19.47	19.47	19.47
GPRS1900 1Tx	28.01	28.03	28.03	28.03	28.03	24.01	24.02	24.02	24.02	24.03	24.02
GPRS1900 2Tx	25.48	25.48	25.46	25.48	25.47	21.97	21.97	21.99	21.97	21.97	21.97
GPRS1900 3Tx	24.51	24.51	24.51	24.51	24.50	20.51	20.52	20.52	20.53	20.52	20.52
GPRS1900 4Tx	23.52	23.53	23.52	23.51	23.52	19.01	18.97	18.97	18.97	19.02	18.97
WCDMA850	22.50	22.50	22.50	22.50	22.49	17.51	17.51	17.53	17.51	17.51	17.51
EDGE850 1Tx	26.52	26.52	26.54	26.52	26.52	24.52	24.51	24.52	24.54	24.52	24.52
EDGE850 2Tx	24.98	24.98	24.98	24.98	24.99	19.97	19.97	19.99	19.97	19.97	19.97
EDGE850 3Tx	23.03	22.98	23.03	23.03	23.03	19.51	19.51	19.52	19.52	19.52	19.49
EDGE850 4Tx	21.47	21.47	21.47	21.47	21.48	18.47	18.51	18.53	18.51	18.51	18.51
EDGE1900 1Tx	26.02	26.01	26.02	26.02	26.02	23.02	23.03	23.03	22.98	23.03	23.03
EDGE1900 2Tx	24.03	24.03	24.03	23.97	24.03	19.99	19.98	19.97	19.97	19.99	19.97
EDGE1900 3Tx	22.97	22.97	22.97	22.97	22.98	19.51	19.51	19.53	19.51	19.51	19.51
EDGE1900 4Tx	21.04	21.02	21.04	21.01	21.04	18.01	18.03	18.03	18.03	18.02	18.03

Moving device further under phantom:

KDB 616217 V.A 8 Measured Power [dBm]																					
Distance[mm]	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	-13	-14	-15	-16	-17	-18	-19	-20
GPRS850 1Tx	26.01	26.02	26.01	26.01	25.98	25.99	26.01	26.01	26.01	26.00	26.01	26.02	26.01	26.01	25.99	25.98	26.01	26.01	25.99	26.01	26.01
GPRS850 2Tx	21.52	21.51	21.52	21.52	21.49	21.52	21.52	21.53	21.52	21.52	21.52	21.51	21.52	21.52	21.50	21.52	21.52	21.49	21.52	21.51	21.52
GPRS850 3Tx	20.48	20.48	20.48	20.49	20.48	20.48	20.49	20.48	20.48	20.50	20.48	20.48	20.48	20.48	20.51	20.48	20.48	20.48	20.49	20.52	20.48
GPRS850 4Tx	19.52	19.53	19.52	19.52	19.51	19.52	19.52	19.50	19.52	19.52	19.52	19.48	19.52	19.49	19.52	19.50	19.52	19.51	19.52	19.52	19.52
GPRS1900 1Tx	23.98	23.98	23.98	23.99	23.98	23.98	24.01	23.98	23.98	24.02	23.99	23.98	23.98	23.98	24.01	24.02	24.01	23.98	23.99	23.98	23.98
GPRS1900 2Tx	22.30	22.31	22.31	22.31	22.29	22.31	22.29	22.29	22.29	22.28	22.31	22.30	22.30	22.32	22.29	22.28	22.30	22.31	22.32	22.30	22.31
GPRS1900 3Tx	20.51	20.52	20.51	20.49	20.48	20.51	20.51	20.47	20.51	20.51	20.52	20.51	20.51	20.50	20.51	20.48	20.49	20.51	20.52	20.51	20.51
GPRS1900 4Tx	18.99	18.99	18.99	19.02	18.99	18.99	18.99	18.99	19.01	18.99	18.99	19.00	18.99	18.99	18.97	18.99	18.99	18.99	18.99	19.02	18.99
WCDMA850	17.51	17.52	17.52	17.53	17.52	17.54	17.52	17.52	17.52	17.51	17.52	17.53	17.52	17.52	17.48	17.52	17.52	17.52	17.49	17.52	17.52
EDGE850 1Tx	24.52	24.51	24.51	24.51	24.51	24.53	24.51	24.51	24.51	24.49	24.51	24.51	24.47	24.51	24.51	24.51	24.48	24.51	24.53	24.51	24.51
EDGE850 2Tx	20.30	20.29	20.31	20.32	20.30	20.30	20.28	20.30	20.30	20.30	20.27	20.28	20.28	20.29	20.29	20.31	20.30	20.30	20.32	20.30	20.30
EDGE850 3Tx	19.53	19.52	19.52	19.51	19.52	19.52	19.52	19.52	19.49	19.52	19.52	19.52	19.48	19.49	19.52	19.50	19.51	19.52	19.52	19.52	19.52
EDGE850 4Tx	18.51	18.52	18.52	18.51	18.51	18.51	18.53	18.51	18.51	18.49	18.48	18.51	18.51	18.47	18.51	18.51	18.51	18.53	18.52	18.51	18.51
EDGE1900 1Tx	22.99	22.98	22.98	22.97	22.99	22.99	23.01	23.01	22.99	22.99	22.99	23.02	22.99	22.99	22.97	22.99	22.99	22.99	22.99	22.99	22.99
EDGE1900 2Tx	19.98	20.03	20.03	20.02	20.01	20.00	20.03	20.03	20.01	19.99	20.02	20.03	20.03	20.02	20.13	20.01	20.03	20.03	19.99	19.98	20.03
EDGE1900 3Tx	19.51	19.50	19.51	19.49	19.51	19.51	19.48	19.51	19.51	19.51	19.51	19.51	19.52	19.51	19.51	19.50	19.51	19.51	19.49	19.51	19.51
EDGE1900 4Tx	18.01	17.98	17.98	17.99	18.03	18.03	18.03	18.02	18.03	18.03	17.99	18.03	18.03	18.03	18.02	18.01	18.03	18.03	17.98	18.03	18.03

Based on the most conservative measured triggering distance of 6 mm, additional SAR measurements were required at 5 mm from the right edge. However, SAR was measured at the more conservative distance of 0 mm from the right edge.

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Bottom Edge



Moving device horizontally toward the phantom:

KDB 616217 V.A-6											
Measured Power [dBm]											
Distance[mm]	11	10	9	8	7	6	5	4	3	2	1
GPRS850 1Tx	31.51	31.51	31.49	31.51	31.52	26.01	26.02	25.98	26.02	26.02	26.02
GPRS850 2Tx	29.48	29.47	29.48	25.01	29.48	21.46	21.47	21.48	21.47	21.49	21.47
GPRS850 3Tx	27.01	27.02	27.02	27.02	27.02	20.49	20.52	20.52	20.51	20.52	20.51
GPRS850 4Tx	25.98	25.98	25.97	25.98	25.99	19.49	19.47	19.47	19.47	19.47	19.47
GPRS1900 1Tx	28.01	28.03	28.03	28.03	28.03	24.01	24.02	24.02	24.03	24.02	24.02
GPRS1900 2Tx	25.48	25.48	25.46	25.48	25.47	21.97	21.97	21.99	21.97	21.97	21.97
GPRS1900 3Tx	24.51	24.51	24.51	24.51	24.50	20.51	20.52	20.52	20.53	20.52	20.52
GPRS1900 4Tx	23.52	23.53	23.52	23.51	23.52	19.01	18.97	18.97	18.97	19.02	18.97
WCDMA850	22.50	22.50	22.50	22.50	22.49	17.51	17.51	17.53	17.51	17.51	17.51
EDGE850 1Tx	26.52	26.52	26.54	26.52	26.52	24.52	24.51	24.52	24.54	24.52	24.52
EDGE850 2Tx	24.98	24.98	24.98	24.98	24.99	19.97	19.97	19.99	19.97	19.97	19.97
EDGE850 3Tx	23.03	22.98	23.03	23.03	23.03	19.51	19.51	19.52	19.52	19.52	19.49
EDGE850 4Tx	21.47	21.47	21.47	21.47	21.48	18.47	18.51	18.53	18.51	18.51	18.51
EDGE1900 1Tx	26.02	26.01	26.02	26.02	26.02	23.02	23.03	23.03	22.98	23.03	23.03
EDGE1900 2Tx	24.03	24.03	24.03	23.97	24.03	19.99	19.98	19.97	19.97	19.99	19.97
EDGE1900 3Tx	22.97	22.97	22.97	22.97	22.98	19.51	19.51	19.53	19.51	19.51	19.51
EDGE1900 4Tx	21.04	21.02	21.04	21.01	21.04	18.01	18.03	18.03	18.03	18.02	18.03

Moving device further under phantom:

KDB 616217 V.A 8																					
Measured Power [dBm]																					
Distance[mm]	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	-13	-14	-15	-16	-17	-18	-19	-20
GPRS850 1Tx	26.01	26.02	26.01	26.01	25.98	25.99	26.01	26.01	26.01	26.00	26.01	26.02	26.01	26.01	25.99	25.98	26.01	26.01	25.99	26.01	26.01
GPRS850 2Tx	21.52	21.51	21.52	21.52	21.49	21.52	21.52	21.53	21.52	21.52	21.52	21.51	21.52	21.52	21.50	21.52	21.52	21.49	21.52	21.51	21.52
GPRS850 3Tx	20.48	20.48	20.48	20.49	20.48	20.48	20.49	20.48	20.48	20.50	20.48	20.48	20.48	20.48	20.51	20.48	20.48	20.48	20.49	20.52	20.48
GPRS850 4Tx	19.52	19.53	19.52	19.52	19.51	19.52	19.52	19.50	19.52	19.52	19.52	19.48	19.52	19.52	19.49	19.52	19.50	19.52	19.51	19.52	19.52
GPRS1900 1Tx	23.98	23.98	23.98	23.99	23.98	23.98	24.01	23.98	23.98	24.02	23.99	23.98	23.98	23.98	23.98	24.01	24.02	24.01	23.98	23.99	23.98
GPRS1900 2Tx	22.30	22.31	22.31	22.31	22.29	22.31	22.29	22.29	22.29	22.28	22.31	22.30	22.30	22.32	22.29	22.28	22.30	22.31	22.32	22.30	22.31
GPRS1900 3Tx	20.51	20.52	20.51	20.49	20.48	20.51	20.51	20.47	20.51	20.51	20.52	20.51	20.51	20.50	20.51	20.48	20.49	20.51	20.52	20.51	20.51
GPRS1900 4Tx	18.99	18.99	18.99	19.02	18.99	18.99	18.99	18.99	19.01	18.99	18.99	19.00	18.99	18.99	18.97	18.99	18.99	18.99	18.99	19.02	18.99
WCDMA850	17.51	17.52	17.52	17.53	17.52	17.54	17.52	17.52	17.52	17.51	17.52	17.53	17.52	17.52	17.52	17.48	17.52	17.52	17.52	17.49	17.52
EDGE850 1Tx	24.52	24.51	24.51	24.51	24.51	24.53	24.51	24.51	24.51	24.49	24.51	24.51	24.47	24.51	24.51	24.51	24.48	24.51	24.53	24.51	24.51
EDGE850 2Tx	20.30	20.29	20.31	20.32	20.30	20.30	20.28	20.30	20.30	20.30	20.27	20.28	20.28	20.29	20.29	20.31	20.30	20.30	20.32	20.30	20.30
EDGE850 3Tx	19.53	19.52	19.52	19.51	19.52	19.52	19.52	19.52	19.52	19.49	19.52	19.52	19.52	19.48	19.49	19.52	19.50	19.51	19.52	19.52	19.52
EDGE850 4Tx	18.51	18.52	18.52	18.51	18.51	18.51	18.53	18.51	18.51	18.49	18.48	18.51	18.51	18.51	18.47	18.51	18.51	18.51	18.53	18.52	18.51
EDGE1900 1Tx	22.99	22.98	22.98	22.97	22.99	22.99	23.01	23.01	22.99	22.99	22.99	23.02	22.99	22.99	22.97	22.99	22.99	22.99	22.99	30.20	22.99
EDGE1900 2Tx	19.98	20.03	20.03	20.02	20.01	20.00	20.03	20.03	20.01	19.99	20.02	20.03	20.03	20.02	20.13	20.01	20.03	20.03	19.99	19.98	20.03
EDGE1900 3Tx	19.51	19.50	19.51	19.49	19.51	19.51	19.48	19.51	19.51	19.51	19.51	19.52	19.51	19.51	19.51	19.50	19.51	19.51	19.49	19.51	19.51
EDGE1900 4Tx	18.01	17.98	17.98	17.99	18.03	18.03	18.03	18.02	18.03	18.03	17.99	18.03	18.03	18.03	18.02	18.01	18.03	18.03	17.98	18.03	18.03

Based on the most conservative measured triggering distance of 6 mm, additional SAR measurements were required at 5 mm from the bottom edge. However, SAR was measured at the more conservative distance of 0 mm from the bottom edge.

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