



APPENDIX E: SENSOR TRIGGERING DATA

FCC ID: A3LGTN8020	 PCTEST ENGINEERING LABORATORY, INC.	SAR EVALUATION REPORT		Reviewed by: Quality Manager
Test Dates: 08/31/12 - 09/10/12	EUT Type: Portable Tablet Device			Page E1 of E3

A3LGTN8020 Sensor Triggering Data

Per FCC Draft KDB Publication 616217 DR01 (4/23/12), this device was tested 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.

Back Side



Moving Towards the Phantom

KDB 616217 V.A-6												
Measured Power [dBm]												
Distance[mm]	18	17	16	15	14	13	12	11	10	9	8	
GSM850	32.02	32.04	32.06	32.08	32.01	26.23	26.25	26.27	26.29	26.22	26.24	
GSM1900	29.51	29.50	29.55	29.50	29.58	23.71	23.78	23.72	23.78	23.73	23.78	
GPRS850 1Tx	32.15	32.12	32.15	32.18	32.15	26.37	26.35	26.36	26.35	26.34	26.35	
GPRS850 2Tx	30.70	30.71	30.70	30.72	30.70	25.08	25.07	25.09	25.07	25.01	25.07	
GPRS850 3Tx	28.30	28.34	28.30	28.33	28.30	23.45	23.42	23.44	23.42	23.43	23.42	
GPRS850 4Tx	26.74	26.75	26.74	26.76	26.74	21.86	21.81	21.87	21.81	21.88	21.81	
GPRS1900 1Tx	29.62	29.68	29.62	29.67	29.62	23.82	23.80	23.81	23.80	23.89	23.80	
GPRS1900 2Tx	28.02	28.09	28.12	28.10	28.22	21.63	21.60	21.64	21.60	21.65	21.60	
GPRS1900 3Tx	25.30	25.42	25.50	25.61	25.70	19.28	19.21	19.27	19.21	19.26	19.21	
GPRS1900 4Tx	24.89	24.83	24.89	24.84	24.89	18.19	18.10	18.11	18.13	18.12	18.13	
WCDMA850	22.30	22.36	22.30	22.35	22.30	16.75	16.76	16.74	16.76	16.73	16.76	
EDGE850 1Tx	25.90	25.97	25.90	25.98	25.90	20.06	20.00	20.07	20.00	20.08	20.00	
EDGE850 2Tx	24.74	24.70	24.74	24.79	24.74	19.02	19.06	19.01	19.06	19.09	19.06	
EDGE850 3Tx	23.62	23.61	23.62	23.63	23.62	17.43	17.49	17.44	17.45	17.46	17.49	
EDGE850 4Tx	23.10	23.15	23.10	23.14	23.10	16.45	16.49	16.45	16.48	16.47	16.45	
EDGE1900 1Tx	24.97	24.96	24.97	24.98	24.97	20.74	20.70	20.74	20.71	20.74	20.72	
EDGE1900 2Tx	24.90	24.91	24.90	24.99	24.90	20.71	20.75	20.71	20.74	20.71	20.73	
EDGE1900 3Tx	22.56	22.52	22.56	22.53	22.56	18.58	18.56	18.58	18.51	18.58	18.52	
EDGE1900 4Tx	21.72	21.73	21.74	21.75	21.76	17.57	17.58	17.59	17.51	17.52	17.53	

Moving Away From the Phantom

KDB 616217 V.A.8																
Measured Power [dBm]																
Distance[mm]	24	21	18	17	16	15	14	13	12	11	10	9	8	5	2	0
GSM850	32.01	32.05	32.02	32.05	32.03	32.05	32.04	26.21	26.26	26.22	26.26	26.23	26.26	26.24	26.26	26.25
GSM1900	29.50	29.51	29.50	29.52	29.50	29.53	29.50	23.73	23.78	23.74	23.78	23.75	23.78	23.76	23.78	23.77
GPRS850 1Tx	32.15	32.18	32.15	32.19	32.15	32.10	32.15	26.35	26.32	26.35	26.34	26.35	26.36	26.35	26.85	26.35
GPRS850 2Tx	30.71	30.70	30.75	30.70	30.70	30.78	30.70	25.05	25.07	25.04	25.07	25.07	25.03	25.07	25.07	25.03
GPRS850 3Tx	28.31	28.30	28.30	28.32	28.30	28.30	28.33	23.42	23.42	23.45	23.42	23.42	23.46	23.42	23.42	23.47
GPRS850 4Tx	26.76	26.74	26.74	26.78	26.74	26.74	26.77	21.81	21.88	21.81	21.81	21.89	21.81	21.81	21.80	21.81
GPRS1900 1Tx	29.60	29.62	29.62	29.61	29.62	29.62	29.63	23.80	23.81	23.80	23.80	23.82	23.80	23.80	23.83	23.80
GPRS1900 2Tx	28.11	28.02	28.22	28.02	28.02	28.12	28.23	21.60	21.65	21.60	21.60	21.66	21.60	21.60	21.67	21.60
GPRS1900 3Tx	25.58	25.50	25.60	25.59	25.60	25.50	25.71	19.21	19.22	19.21	19.21	19.23	19.21	19.21	19.24	19.21
GPRS1900 4Tx	24.85	24.89	24.89	24.86	24.89	24.89	24.87	18.13	18.18	18.13	18.13	18.19	18.13	18.13	18.10	18.13
WCDMA850	22.31	22.30	22.30	22.32	22.30	22.30	22.33	16.76	16.74	16.76	16.76	16.75	16.76	16.76	16.77	16.76
EDGE850 1Tx	25.98	25.90	25.90	25.99	25.90	25.90	25.91	20.00	20.02	20.00	20.00	20.03	20.00	20.00	20.04	20.00
EDGE850 2Tx	24.75	24.74	24.74	24.76	24.74	24.74	24.77	19.06	19.08	19.06	19.06	19.09	19.06	19.06	19.00	19.06
EDGE850 3Tx	23.61	23.62	23.62	23.63	23.62	23.62	23.64	17.49	17.45	17.49	17.49	17.46	17.49	17.49	17.47	17.49
EDGE850 4Tx	23.10	23.11	23.10	23.10	23.13	23.10	23.10	16.45	16.45	16.48	16.45	16.45	16.47	16.45	16.49	16.45
EDGE1900 1Tx	24.97	24.97	24.97	24.97	24.97	24.97	24.97	20.74	20.74	20.75	20.74	20.74	20.76	20.74	20.74	20.74
EDGE1900 2Tx	24.91	24.90	24.90	24.92	24.90	24.90	24.93	20.71	20.72	20.71	20.71	20.71	20.78	20.71	20.71	20.77
EDGE1900 3Tx	22.56	22.55	22.56	22.56	22.52	22.56	22.56	18.58	18.58	18.51	18.58	18.58	18.38	18.58	18.58	18.57
EDGE1900 4Tx	21.71	21.72	21.783	21.74	21.75	21.78	21.76	17.50	17.51	17.58	17.57	17.50	17.56	17.50	17.55	17.50

Sensor reliability data was provided by the manufacturer. Additional data per Draft KDB 616217 DR01 (4/23/12) can be found in the sensor reliability document.

FCC ID: A3LGTN8020		SAR EVALUATION REPORT		Reviewed by: Quality Manager
Test Dates: 08/31/12 - 09/10/12	EUT Type: Portable Tablet Device			Page E2 of E3

Top Edge

Moving Towards the Phantom

KDB 616217 V.A-6 Measured Power [dBm]											
Distance[mm]	16	15	14	13	12	11	10	9	8	7	6
GSM850	32.09	32.07	32.05	32.03	32.01	26.22	26.24	26.26	26.28	26.23	26.25
GSM1900	29.50	29.51	29.50	29.52	29.50	23.78	23.71	23.78	23.72	23.78	23.73
GPRS850 1Tx	32.15	32.13	32.15	32.14	32.15	26.35	26.34	26.35	26.36	26.35	26.37
GPRS850 2Tx	30.70	30.75	30.70	30.76	30.70	25.07	25.08	25.07	25.09	25.07	25.01
GPRS850 3Tx	28.30	28.37	28.30	28.38	28.30	23.42	23.42	23.42	23.43	23.42	23.44
GPRS850 4Tx	26.74	26.79	26.74	26.70	26.74	21.81	21.85	21.81	21.86	21.81	21.87
GPRS1900 1Tx	29.62	29.61	29.62	29.63	29.62	23.80	23.88	23.89	23.80	23.81	23.80
GPRS1900 2Tx	28.02	28.04	28.12	28.05	28.02	21.62	21.60	21.63	21.60	21.64	21.60
GPRS1900 3Tx	25.30	25.46	25.60	25.47	25.50	19.25	19.21	19.26	19.21	19.27	19.21
GPRS1900 4Tx	24.89	24.88	24.89	24.80	24.89	18.18	18.13	18.19	18.13	18.20	18.13
WCDMA850	22.30	22.31	22.30	22.32	22.30	16.71	16.76	16.72	16.76	16.73	16.76
EDGE850 1Tx	25.90	25.93	25.90	25.94	25.90	20.04	20.00	20.05	20.00	20.06	20.00
EDGE850 2Tx	24.74	24.75	24.74	24.76	24.74	19.07	19.06	19.08	19.06	19.09	19.06
EDGE850 3Tx	23.62	23.67	23.62	23.68	23.62	17.40	17.49	17.41	17.49	17.42	17.49
EDGE850 4Tx	23.10	23.19	23.10	23.11	23.10	16.43	16.45	16.44	16.45	16.46	16.45
EDGE1900 1Tx	24.97	24.92	24.97	24.93	24.97	20.77	20.74	20.78	20.74	20.79	20.74
EDGE1900 2Tx	24.90	24.94	24.90	24.95	24.90	20.70	20.71	20.72	20.71	20.73	20.71
EDGE1900 3Tx	22.56	22.56	22.56	22.57	22.56	18.54	18.58	18.55	18.58	18.56	18.58
EDGE1900 4Tx	21.74	21.77	21.76	21.75	21.74	17.53	17.52	17.51	17.50	17.56	17.54



Moving 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
GSM850	32.01	32.05	32.02	32.03	32.04	32.07	32.08	26.21	26.22	26.23	26.25	26.26	26.27	26.28	26.29
GSM1900	29.50	29.51	29.50	29.50	29.53	29.50	29.55	23.78	23.71	23.78	23.78	23.72	23.78	23.78	23.73
GPRS850 1Tx	32.15	32.11	32.15	32.15	32.12	32.15	32.15	26.33	26.35	26.35	26.34	26.35	26.35	26.36	26.35
GPRS850 2Tx	30.70	30.71	30.70	30.70	30.72	30.70	30.70	25.04	25.07	25.07	25.05	25.07	25.07	25.06	25.07
GPRS850 3Tx	28.31	28.30	28.30	28.32	28.30	28.30	28.33	23.42	23.42	23.45	23.42	23.42	23.46	23.42	23.42
GPRS850 4Tx	26.71	26.74	26.74	26.74	26.72	26.74	26.74	21.81	21.83	21.81	21.81	21.85	21.81	21.81	21.86
GPRS1900 1Tx	29.60	29.62	29.62	29.61	29.62	29.62	29.63	23.80	23.81	23.80	23.80	23.82	23.80	23.80	23.83
GPRS1900 2Tx	28.02	28.12	28.02	28.22	28.02	28.22	28.12	21.60	21.60	21.60	21.60	21.60	21.60	21.60	21.60
GPRS1900 3Tx	25.51	25.50	25.50	25.62	25.40	25.50	25.43	19.21	19.22	19.21	19.21	19.24	19.21	19.21	19.25
GPRS1900 4Tx	24.86	24.89	24.89	24.87	24.89	24.89	24.88	18.13	18.19	18.13	18.13	18.10	18.13	18.13	18.11
WCDMA850	22.32	22.30	22.30	22.33	22.30	22.30	22.34	16.76	16.75	16.76	16.76	16.71	16.76	16.76	16.77
EDGE850 1Tx	25.90	25.91	25.90	25.90	25.92	25.90	25.90	20.00	20.01	20.00	20.00	20.03	20.00	20.00	20.04
EDGE850 2Tx	24.77	24.74	24.74	24.78	24.74	24.74	24.79	19.06	19.00	19.06	19.06	19.07	19.06	19.06	19.08
EDGE850 3Tx	23.60	23.62	23.62	23.61	23.62	23.62	23.63	17.49	17.40	17.49	17.49	17.41	17.49	17.49	17.42
EDGE850 4Tx	23.10	23.11	23.10	23.10	23.12	23.10	23.10	16.45	16.43	16.45	16.45	16.44	16.45	16.45	16.46
EDGE1900 1Tx	24.97	24.95	24.97	24.98	24.97	24.97	24.99	20.74	20.70	20.74	20.74	20.71	20.74	20.74	20.72
EDGE1900 2Tx	24.91	24.90	24.90	24.93	24.90	24.90	24.95	20.71	20.77	20.71	20.71	20.79	20.71	20.77	20.71
EDGE1900 3Tx	22.51	22.56	22.56	22.52	22.56	22.56	22.53	18.58	18.54	18.58	18.55	18.58	18.56	18.58	18.57
EDGE1900 4Tx	21.71	21.78	21.72	21.73	21.74	21.75	21.78	17.51	17.50	17.52	17.53	17.54	17.55	17.56	17.50

Sensor reliability data was provided by the manufacturer. Additional data per Draft KDB 616217 DR01 4/23/12 can be found in the sensor reliability document.

SAR Test Configurations

Based on the most conservative measured triggering distance, additional SAR measurements were required at 12 mm for the back side and 10 mm for the top edge with the device operating at maximum power.

FCC ID: A3LGTN8020	 PCTEST ENGINEERING LABORATORY, INC.	SAR EVALUATION REPORT		Reviewed by: Quality Manager
Test Dates: 08/31/12 - 09/10/12	EUT Type: Portable Tablet Device			Page E3 of E3