

Appendix RF Test Data for LTE Band 2

FCC : 2BFV9-VK59

Company : SHENZHEN SHENGYE TECHNOLOGY CO., LTD

EUT : KIDS SMART WATCH

Model Number : VK59

Report No. : CTA26052902203

Reviewed By : Eric Wang

APPENDIX A: CONDUCTED OUTPUT POWER

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
Band2	1.4	18607	1	#0	QPSK	24.13	PASS
Band2	1.4	18607	1	#Mid	QPSK	24.21	PASS
Band2	1.4	18607	1	#Max	QPSK	24.25	PASS
Band2	1.4	18607	3	#0	QPSK	24.08	PASS
Band2	1.4	18607	3	#Mid	QPSK	24.12	PASS
Band2	1.4	18607	3	#Max	QPSK	24.11	PASS
Band2	1.4	18607	6	#0	QPSK	23.0	PASS
Band2	1.4	18607	1	#0	16QAM	22.91	PASS
Band2	1.4	18607	1	#Mid	16QAM	22.91	PASS
Band2	1.4	18607	1	#Max	16QAM	23.0	PASS
Band2	1.4	18607	3	#0	16QAM	23.02	PASS
Band2	1.4	18607	3	#Mid	16QAM	23.07	PASS
Band2	1.4	18607	3	#Max	16QAM	23.01	PASS
Band2	1.4	18607	6	#0	16QAM	22.08	PASS
Band2	1.4	18900	1	#0	QPSK	23.59	PASS
Band2	1.4	18900	1	#Mid	QPSK	23.61	PASS
Band2	1.4	18900	1	#Max	QPSK	23.58	PASS
Band2	1.4	18900	3	#0	QPSK	23.57	PASS
Band2	1.4	18900	3	#Mid	QPSK	23.57	PASS
Band2	1.4	18900	3	#Max	QPSK	23.58	PASS
Band2	1.4	18900	6	#0	QPSK	22.62	PASS
Band2	1.4	18900	1	#0	16QAM	22.66	PASS
Band2	1.4	18900	1	#Mid	16QAM	22.69	PASS
Band2	1.4	18900	1	#Max	16QAM	22.65	PASS
Band2	1.4	18900	3	#0	16QAM	22.65	PASS
Band2	1.4	18900	3	#Mid	16QAM	22.66	PASS
Band2	1.4	18900	3	#Max	16QAM	22.62	PASS
Band2	1.4	18900	6	#0	16QAM	21.8	PASS
Band2	1.4	19193	1	#0	QPSK	23.46	PASS
Band2	1.4	19193	1	#Mid	QPSK	23.28	PASS
Band2	1.4	19193	1	#Max	QPSK	22.6	PASS
Band2	1.4	19193	3	#0	QPSK	22.42	PASS
Band2	1.4	19193	3	#Mid	QPSK	22.49	PASS
Band2	1.4	19193	3	#Max	QPSK	22.57	PASS
Band2	1.4	19193	6	#0	QPSK	22.27	PASS
Band2	1.4	19193	1	#0	16QAM	22.5	PASS
Band2	1.4	19193	1	#Mid	16QAM	22.45	PASS
Band2	1.4	19193	1	#Max	16QAM	21.79	PASS
Band2	1.4	19193	3	#0	16QAM	22.38	PASS
Band2	1.4	19193	3	#Mid	16QAM	22.34	PASS
Band2	1.4	19193	3	#Max	16QAM	22.34	PASS
Band2	1.4	19193	6	#0	16QAM	21.34	PASS
Band2	3.0	18615	1	#0	QPSK	23.75	PASS
Band2	3.0	18615	1	#Mid	QPSK	23.84	PASS
Band2	3.0	18615	1	#Max	QPSK	23.72	PASS
Band2	3.0	18615	8	#0	QPSK	22.7	PASS
Band2	3.0	18615	8	#Mid	QPSK	22.78	PASS
Band2	3.0	18615	8	#Max	QPSK	22.8	PASS
Band2	3.0	18615	15	#0	QPSK	22.73	PASS
Band2	3.0	18615	1	#0	16QAM	22.82	PASS
Band2	3.0	18615	1	#Mid	16QAM	23.01	PASS
Band2	3.0	18615	1	#Max	16QAM	22.89	PASS
Band2	3.0	18615	8	#0	16QAM	21.74	PASS
Band2	3.0	18615	8	#Mid	16QAM	21.78	PASS
Band2	3.0	18615	8	#Max	16QAM	21.82	PASS
Band2	3.0	18615	15	#0	16QAM	21.62	PASS
Band2	3.0	18900	1	#0	QPSK	23.19	PASS
Band2	3.0	18900	1	#Mid	QPSK	23.24	PASS
Band2	3.0	18900	1	#Max	QPSK	23.13	PASS
Band2	3.0	18900	8	#0	QPSK	22.3	PASS
Band2	3.0	18900	8	#Mid	QPSK	22.3	PASS

Band2	3.0	18900	8	#Max	QPSK	22.3	PASS
Band2	3.0	18900	15	#0	QPSK	22.28	PASS
Band2	3.0	18900	1	#0	16QAM	22.28	PASS
Band2	3.0	18900	1	#Mid	16QAM	22.34	PASS
Band2	3.0	18900	1	#Max	16QAM	22.24	PASS
Band2	3.0	18900	8	#0	16QAM	21.33	PASS
Band2	3.0	18900	8	#Mid	16QAM	21.33	PASS
Band2	3.0	18900	8	#Max	16QAM	21.33	PASS
Band2	3.0	18900	15	#0	16QAM	21.16	PASS
Band2	3.0	19185	1	#0	QPSK	23.11	PASS
Band2	3.0	19185	1	#Mid	QPSK	23.31	PASS
Band2	3.0	19185	1	#Max	QPSK	22.31	PASS
Band2	3.0	19185	8	#0	QPSK	21.95	PASS
Band2	3.0	19185	8	#Mid	QPSK	22.01	PASS
Band2	3.0	19185	8	#Max	QPSK	22.04	PASS
Band2	3.0	19185	15	#0	QPSK	22.05	PASS
Band2	3.0	19185	1	#0	16QAM	22.17	PASS
Band2	3.0	19185	1	#Mid	16QAM	22.34	PASS
Band2	3.0	19185	1	#Max	16QAM	21.46	PASS
Band2	3.0	19185	8	#0	16QAM	20.91	PASS
Band2	3.0	19185	8	#Mid	16QAM	20.92	PASS
Band2	3.0	19185	8	#Max	16QAM	21.01	PASS
Band2	3.0	19185	15	#0	16QAM	21.09	PASS
Band2	5.0	18625	1	#0	QPSK	23.8	PASS
Band2	5.0	18625	1	#Mid	QPSK	23.74	PASS
Band2	5.0	18625	1	#Max	QPSK	23.59	PASS
Band2	5.0	18625	12	#0	QPSK	22.61	PASS
Band2	5.0	18625	12	#Mid	QPSK	22.69	PASS
Band2	5.0	18625	12	#Max	QPSK	22.51	PASS
Band2	5.0	18625	25	#0	QPSK	22.57	PASS
Band2	5.0	18625	1	#0	16QAM	22.98	PASS
Band2	5.0	18625	1	#Mid	16QAM	23.05	PASS
Band2	5.0	18625	1	#Max	16QAM	22.91	PASS
Band2	5.0	18625	12	#0	16QAM	21.6	PASS
Band2	5.0	18625	12	#Mid	16QAM	21.65	PASS
Band2	5.0	18625	12	#Max	16QAM	21.47	PASS
Band2	5.0	18625	25	#0	16QAM	21.56	PASS
Band2	5.0	18900	1	#0	QPSK	23.18	PASS
Band2	5.0	18900	1	#Mid	QPSK	23.11	PASS
Band2	5.0	18900	1	#Max	QPSK	23.0	PASS
Band2	5.0	18900	12	#0	QPSK	22.06	PASS
Band2	5.0	18900	12	#Mid	QPSK	22.14	PASS
Band2	5.0	18900	12	#Max	QPSK	22.05	PASS
Band2	5.0	18900	25	#0	QPSK	22.05	PASS
Band2	5.0	18900	1	#0	16QAM	22.38	PASS
Band2	5.0	18900	1	#Mid	16QAM	22.33	PASS
Band2	5.0	18900	1	#Max	16QAM	22.25	PASS
Band2	5.0	18900	12	#0	16QAM	21.14	PASS
Band2	5.0	18900	12	#Mid	16QAM	21.22	PASS
Band2	5.0	18900	12	#Max	16QAM	21.12	PASS
Band2	5.0	18900	25	#0	16QAM	21.0	PASS
Band2	5.0	19175	1	#0	QPSK	23.12	PASS
Band2	5.0	19175	1	#Mid	QPSK	23.07	PASS
Band2	5.0	19175	1	#Max	QPSK	22.32	PASS
Band2	5.0	19175	12	#0	QPSK	21.69	PASS
Band2	5.0	19175	12	#Mid	QPSK	21.8	PASS
Band2	5.0	19175	12	#Max	QPSK	21.86	PASS
Band2	5.0	19175	25	#0	QPSK	21.77	PASS
Band2	5.0	19175	1	#0	16QAM	21.87	PASS
Band2	5.0	19175	1	#Mid	16QAM	21.93	PASS
Band2	5.0	19175	1	#Max	16QAM	21.14	PASS
Band2	5.0	19175	12	#0	16QAM	20.8	PASS
Band2	5.0	19175	12	#Mid	16QAM	20.94	PASS
Band2	5.0	19175	12	#Max	16QAM	20.96	PASS
Band2	5.0	19175	25	#0	16QAM	20.76	PASS
Band2	10	18650	1	#0	QPSK	23.59	PASS

Band2	10	18650	1	#Mid	QPSK	23.25	PASS
Band2	10	18650	1	#Max	QPSK	23.13	PASS
Band2	10	18650	25	#0	QPSK	22.24	PASS
Band2	10	18650	25	#Mid	QPSK	22.3	PASS
Band2	10	18650	25	#Max	QPSK	22.02	PASS
Band2	10	18650	50	#0	QPSK	22.08	PASS
Band2	10	18650	1	#0	16QAM	23.58	PASS
Band2	10	18650	1	#Mid	16QAM	23.03	PASS
Band2	10	18650	1	#Max	16QAM	22.82	PASS
Band2	10	18650	25	#0	16QAM	21.66	PASS
Band2	10	18650	25	#Mid	16QAM	22.07	PASS
Band2	10	18650	25	#Max	16QAM	21.88	PASS
Band2	10	18650	50	#0	16QAM	21.76	PASS
Band2	10	18900	1	#0	QPSK	22.9	PASS
Band2	10	18900	1	#Mid	QPSK	22.83	PASS
Band2	10	18900	1	#Max	QPSK	22.9	PASS
Band2	10	18900	25	#0	QPSK	21.68	PASS
Band2	10	18900	25	#Mid	QPSK	21.83	PASS
Band2	10	18900	25	#Max	QPSK	21.6	PASS
Band2	10	18900	50	#0	QPSK	21.63	PASS
Band2	10	18900	1	#0	16QAM	22.50	PASS
Band2	10	18900	1	#Mid	16QAM	22.21	PASS
Band2	10	18900	1	#Max	16QAM	22.69	PASS
Band2	10	18900	25	#0	16QAM	21.32	PASS
Band2	10	18900	25	#Mid	16QAM	21.15	PASS
Band2	10	18900	25	#Max	16QAM	21.06	PASS
Band2	10	18900	50	#0	16QAM	21.28	PASS
Band2	10	19150	1	#0	QPSK	22.83	PASS
Band2	10	19150	1	#Mid	QPSK	22.72	PASS
Band2	10	19150	1	#Max	QPSK	22.08	PASS
Band2	10	19150	25	#0	QPSK	21.35	PASS
Band2	10	19150	25	#Mid	QPSK	21.45	PASS
Band2	10	19150	25	#Max	QPSK	21.45	PASS
Band2	10	19150	50	#0	QPSK	21.37	PASS
Band2	10	19150	1	#0	16QAM	22.69	PASS
Band2	10	19150	1	#Mid	16QAM	22.83	PASS
Band2	10	19150	1	#Max	16QAM	22.12	PASS
Band2	10	19150	25	#0	16QAM	20.95	PASS
Band2	10	19150	25	#Mid	16QAM	21.31	PASS
Band2	10	19150	25	#Max	16QAM	21.13	PASS
Band2	10	19150	50	#0	16QAM	20.71	PASS
Band2	15	18675	1	#0	QPSK	23.57	PASS
Band2	15	18675	1	#Mid	QPSK	23.23	PASS
Band2	15	18675	1	#Max	QPSK	23.06	PASS
Band2	15	18675	36	#0	QPSK	22.3	PASS
Band2	15	18675	36	#Mid	QPSK	22.24	PASS
Band2	15	18675	36	#Max	QPSK	22.05	PASS
Band2	15	18675	75	#0	QPSK	22.11	PASS
Band2	15	18675	1	#0	16QAM	22.90	PASS
Band2	15	18675	1	#Mid	16QAM	23.02	PASS
Band2	15	18675	1	#Max	16QAM	23.12	PASS
Band2	15	18675	36	#0	16QAM	21.61	PASS
Band2	15	18675	36	#Mid	16QAM	21.98	PASS
Band2	15	18675	36	#Max	16QAM	22.14	PASS
Band2	15	18675	75	#0	16QAM	21.74	PASS
Band2	15	18900	1	#0	QPSK	23.04	PASS
Band2	15	18900	1	#Mid	QPSK	22.88	PASS
Band2	15	18900	1	#Max	QPSK	22.9	PASS
Band2	15	18900	36	#0	QPSK	21.84	PASS
Band2	15	18900	36	#Mid	QPSK	21.88	PASS
Band2	15	18900	36	#Max	QPSK	21.79	PASS
Band2	15	18900	75	#0	QPSK	21.77	PASS
Band2	15	18900	1	#0	16QAM	23.10	PASS
Band2	15	18900	1	#Mid	16QAM	22.26	PASS
Band2	15	18900	1	#Max	16QAM	22.68	PASS
Band2	15	18900	36	#0	16QAM	21.78	PASS

Band2	15	18900	36	#Mid	16QAM	21.19	PASS
Band2	15	18900	36	#Max	16QAM	21.43	PASS
Band2	15	18900	75	#0	16QAM	21.19	PASS
Band2	15	19125	1	#0	QPSK	22.92	PASS
Band2	15	19125	1	#Mid	QPSK	22.87	PASS
Band2	15	19125	1	#Max	QPSK	22.33	PASS
Band2	15	19125	36	#0	QPSK	21.65	PASS
Band2	15	19125	36	#Mid	QPSK	21.63	PASS
Band2	15	19125	36	#Max	QPSK	21.54	PASS
Band2	15	19125	75	#0	QPSK	21.56	PASS
Band2	15	19125	1	#0	16QAM	22.22	PASS
Band2	15	19125	1	#Mid	16QAM	22.43	PASS
Band2	15	19125	1	#Max	16QAM	21.72	PASS
Band2	15	19125	36	#0	16QAM	21.46	PASS
Band2	15	19125	36	#Mid	16QAM	21.45	PASS
Band2	15	19125	36	#Max	16QAM	21.43	PASS
Band2	15	19125	75	#0	16QAM	21.55	PASS
Band2	20	18700	1	#0	QPSK	23.63	PASS
Band2	20	18700	1	#Mid	QPSK	23.21	PASS
Band2	20	18700	1	#Max	QPSK	22.96	PASS
Band2	20	18700	50	#0	QPSK	22.21	PASS
Band2	20	18700	50	#Mid	QPSK	22.15	PASS
Band2	20	18700	50	#Max	QPSK	22.03	PASS
Band2	20	18700	100	#0	QPSK	21.93	PASS
Band2	20	18700	1	#0	16QAM	22.88	PASS
Band2	20	18700	1	#Mid	16QAM	22.93	PASS
Band2	20	18700	1	#Max	16QAM	22.56	PASS
Band2	20	18700	50	#0	16QAM	21.98	PASS
Band2	20	18700	50	#Mid	16QAM	21.91	PASS
Band2	20	18700	50	#Max	16QAM	21.50	PASS
Band2	20	18700	100	#0	16QAM	21.76	PASS
Band2	20	18900	1	#0	QPSK	22.93	PASS
Band2	20	18900	1	#Mid	QPSK	22.93	PASS
Band2	20	18900	1	#Max	QPSK	22.89	PASS
Band2	20	18900	50	#0	QPSK	21.78	PASS
Band2	20	18900	50	#Mid	QPSK	21.84	PASS
Band2	20	18900	50	#Max	QPSK	21.71	PASS
Band2	20	18900	100	#0	QPSK	21.71	PASS
Band2	20	18900	1	#0	16QAM	22.62	PASS
Band2	20	18900	1	#Mid	16QAM	22.48	PASS
Band2	20	18900	1	#Max	16QAM	22.68	PASS
Band2	20	18900	50	#0	16QAM	21.54	PASS
Band2	20	18900	50	#Mid	16QAM	21.35	PASS
Band2	20	18900	50	#Max	16QAM	21.65	PASS
Band2	20	18900	100	#0	16QAM	21.43	PASS
Band2	20	19100	1	#0	QPSK	22.85	PASS
Band2	20	19100	1	#Mid	QPSK	22.76	PASS
Band2	20	19100	1	#Max	QPSK	22.97	PASS
Band2	20	19100	50	#0	QPSK	21.68	PASS
Band2	20	19100	50	#Mid	QPSK	21.65	PASS
Band2	20	19100	50	#Max	QPSK	21.5	PASS
Band2	20	19100	100	#0	QPSK	21.49	PASS
Band2	20	19100	1	#0	16QAM	22.68	PASS
Band2	20	19100	1	#Mid	16QAM	22.33	PASS
Band2	20	19100	1	#Max	16QAM	22.39	PASS
Band2	20	19100	50	#0	16QAM	21.04	PASS
Band2	20	19100	50	#Mid	16QAM	21.59	PASS
Band2	20	19100	50	#Max	16QAM	21.34	PASS
Band2	20	19100	100	#0	16QAM	21.33	PASS

APPENDIX B: PEAK-TO-AVERAGE RATIO(CCDF)

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	4.50	13	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	5.52	13	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	5.20	13	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	6.05	13	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	4.19	13	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	5.25	13	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	4.97	13	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	5.83	13	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	4.14	13	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	5.17	13	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	4.96	13	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	5.77	13	PASS
Band2	3MHz	QPSK	18615	1RB#0	4.56	13	PASS
Band2	3MHz	16QAM	18615	1RB#0	5.58	13	PASS
Band2	3MHz	QPSK	18615	15RB#0	5.31	13	PASS
Band2	3MHz	16QAM	18615	15RB#0	6.09	13	PASS
Band2	3MHz	QPSK	18900	1RB#0	4.31	13	PASS
Band2	3MHz	16QAM	18900	1RB#0	5.27	13	PASS
Band2	3MHz	QPSK	18900	15RB#0	5.15	13	PASS
Band2	3MHz	16QAM	18900	15RB#0	5.92	13	PASS
Band2	3MHz	QPSK	19185	1RB#0	4.17	13	PASS
Band2	3MHz	16QAM	19185	1RB#0	5.01	13	PASS
Band2	3MHz	QPSK	19185	15RB#0	5.13	13	PASS
Band2	3MHz	16QAM	19185	15RB#0	5.94	13	PASS
Band2	5MHz	QPSK	18625	1RB#0	4.54	13	PASS
Band2	5MHz	16QAM	18625	1RB#0	5.42	13	PASS
Band2	5MHz	QPSK	18625	25RB#0	5.30	13	PASS
Band2	5MHz	16QAM	18625	25RB#0	6.09	13	PASS
Band2	5MHz	QPSK	18900	1RB#0	4.31	13	PASS
Band2	5MHz	16QAM	18900	1RB#0	5.26	13	PASS
Band2	5MHz	QPSK	18900	25RB#0	5.15	13	PASS
Band2	5MHz	16QAM	18900	25RB#0	5.92	13	PASS
Band2	5MHz	QPSK	19175	1RB#0	4.21	13	PASS
Band2	5MHz	16QAM	19175	1RB#0	5.08	13	PASS
Band2	5MHz	QPSK	19175	25RB#0	5.14	13	PASS
Band2	5MHz	16QAM	19175	25RB#0	5.90	13	PASS
Band2	10MHz	QPSK	18650	1RB#0	4.44	13	PASS
Band2	10MHz	16QAM	18650	1RB#0	5.35	13	PASS
Band2	10MHz	QPSK	18650	50RB#0	5.25	13	PASS
Band2	10MHz	16QAM	18650	50RB#0	6.04	13	PASS
Band2	10MHz	QPSK	18900	1RB#0	4.31	13	PASS
Band2	10MHz	16QAM	18900	1RB#0	5.16	13	PASS
Band2	10MHz	QPSK	18900	50RB#0	5.07	13	PASS
Band2	10MHz	16QAM	18900	50RB#0	5.87	13	PASS
Band2	10MHz	QPSK	19150	1RB#0	4.18	13	PASS
Band2	10MHz	16QAM	19150	1RB#0	4.98	13	PASS
Band2	10MHz	QPSK	19150	50RB#0	5.05	13	PASS
Band2	10MHz	16QAM	19150	50RB#0	5.86	13	PASS
Band2	15MHz	QPSK	18675	1RB#0	4.45	13	PASS
Band2	15MHz	16QAM	18675	1RB#0	5.35	13	PASS
Band2	15MHz	QPSK	18675	75RB#0	5.34	13	PASS
Band2	15MHz	16QAM	18675	75RB#0	6.06	13	PASS
Band2	15MHz	QPSK	18900	1RB#0	4.24	13	PASS
Band2	15MHz	16QAM	18900	1RB#0	5.10	13	PASS
Band2	15MHz	QPSK	18900	75RB#0	5.17	13	PASS
Band2	15MHz	16QAM	18900	75RB#0	5.90	13	PASS
Band2	15MHz	QPSK	19125	1RB#0	4.32	13	PASS
Band2	15MHz	16QAM	19125	1RB#0	5.27	13	PASS
Band2	15MHz	QPSK	19125	75RB#0	5.17	13	PASS

Band2	15MHz	16QAM	19125	75RB#0	5.89	13	PASS
Band2	20MHz	QPSK	18700	1RB#0	4.40	13	PASS
Band2	20MHz	16QAM	18700	1RB#0	5.35	13	PASS
Band2	20MHz	QPSK	18700	100RB#0	5.06	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	5.91	13	PASS
Band2	20MHz	QPSK	18900	1RB#0	4.21	13	PASS
Band2	20MHz	16QAM	18900	1RB#0	5.04	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	4.96	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	5.81	13	PASS
Band2	20MHz	QPSK	19100	1RB#0	4.35	13	PASS
Band2	20MHz	16QAM	19100	1RB#0	5.24	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.05	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	5.88	13	PASS





