

10523-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.45	67.82	16.76	0.00	150.0	± 9.6 %
		Y	4.33	66.98	16.06		150.0	
		Z	4.35	67.12	16.09		150.0	
10524-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.48	67.81	16.84	0.00	150.0	± 9.6 %
		Y	4.38	67.00	16.16		150.0	
		Z	4.40	67.13	16.19		150.0	
10525-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.50	66.88	16.44	0.00	150.0	± 9.6 %
		Y	4.39	66.07	15.76		150.0	
		Z	4.41	66.21	15.79		150.0	
10526-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.65	67.22	16.57	0.00	150.0	± 9.6 %
		Y	4.53	66.39	15.90		150.0	
		Z	4.55	66.53	15.93		150.0	
10527-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.58	67.20	16.52	0.00	150.0	± 9.6 %
		Y	4.45	66.35	15.83		150.0	
		Z	4.48	66.49	15.86		150.0	
10528-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.59	67.21	16.55	0.00	150.0	± 9.6 %
		Y	4.47	66.37	15.86		150.0	
		Z	4.49	66.51	15.89		150.0	
10529-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.59	67.21	16.55	0.00	150.0	± 9.6 %
		Y	4.47	66.37	15.86		150.0	
		Z	4.49	66.51	15.89		150.0	
10531-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.57	67.29	16.56	0.00	150.0	± 9.6 %
		Y	4.45	66.43	15.86		150.0	
		Z	4.47	66.57	15.89		150.0	
10532-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.44	67.16	16.50	0.00	150.0	± 9.6 %
		Y	4.32	66.28	15.78		150.0	
		Z	4.34	66.42	15.82		150.0	
10533-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.60	67.29	16.56	0.00	150.0	± 9.6 %
		Y	4.48	66.43	15.86		150.0	
		Z	4.50	66.57	15.89		150.0	
10534-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.13	67.13	16.52	0.00	150.0	± 9.6 %
		Y	5.03	66.47	15.96		150.0	
		Z	5.04	66.59	15.97		150.0	
10535-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.19	67.31	16.61	0.00	150.0	± 9.6 %
		Y	5.09	66.65	16.05		150.0	
		Z	5.10	66.76	16.05		150.0	
10536-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.07	67.31	16.59	0.00	150.0	± 9.6 %
		Y	4.97	66.61	16.00		150.0	
		Z	4.98	66.72	16.01		150.0	
10537-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.12	67.24	16.56	0.00	150.0	± 9.6 %
		Y	5.02	66.57	15.99		150.0	
		Z	5.03	66.68	16.00		150.0	
10538-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.20	67.22	16.58	0.00	150.0	± 9.6 %
		Y	5.10	66.57	16.03		150.0	
		Z	5.11	66.68	16.04		150.0	
10540-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.13	67.21	16.60	0.00	150.0	± 9.6 %
		Y	5.03	66.56	16.04		150.0	
		Z	5.04	66.66	16.05		150.0	

10541-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.11	67.09	16.53	0.00	150.0	± 9.6 %
		Y	5.01	66.44	15.97		150.0	
		Z	5.02	66.56	15.98		150.0	
10542-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.26	67.17	16.58	0.00	150.0	± 9.6 %
		Y	5.17	66.54	16.04		150.0	
		Z	5.18	66.66	16.05		150.0	
10543-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.32	67.17	16.60	0.00	150.0	± 9.6 %
		Y	5.23	66.56	16.07		150.0	
		Z	5.24	66.67	16.08		150.0	
10544-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.45	67.16	16.47	0.00	150.0	± 9.6 %
		Y	5.36	66.58	15.96		150.0	
		Z	5.37	66.70	15.97		150.0	
10545-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.65	67.64	16.67	0.00	150.0	± 9.6 %
		Y	5.55	67.04	16.15		150.0	
		Z	5.55	67.11	16.14		150.0	
10546-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.50	67.33	16.52	0.00	150.0	± 9.6 %
		Y	5.40	66.73	16.01		150.0	
		Z	5.41	66.85	16.02		150.0	
10547-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.57	67.40	16.55	0.00	150.0	± 9.6 %
		Y	5.48	66.81	16.04		150.0	
		Z	5.49	66.91	16.05		150.0	
10548-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.80	68.28	16.97	0.00	150.0	± 9.6 %
		Y	5.70	67.67	16.45		150.0	
		Z	5.67	67.67	16.40		150.0	
10550-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.55	67.47	16.61	0.00	150.0	± 9.6 %
		Y	5.46	66.86	16.09		150.0	
		Z	5.45	66.94	16.08		150.0	
10551-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.52	67.37	16.52	0.00	150.0	± 9.6 %
		Y	5.43	66.79	16.01		150.0	
		Z	5.44	66.89	16.02		150.0	
10552-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.46	67.26	16.47	0.00	150.0	± 9.6 %
		Y	5.37	66.65	15.94		150.0	
		Z	5.38	66.78	15.96		150.0	
10553-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.53	67.23	16.48	0.00	150.0	± 9.6 %
		Y	5.43	66.65	15.98		150.0	
		Z	5.45	66.78	15.99		150.0	
10554-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.87	67.48	16.53	0.00	150.0	± 9.6 %
		Y	5.78	66.94	16.06		150.0	
		Z	5.78	67.05	16.06		150.0	
10555-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.99	67.78	16.66	0.00	150.0	± 9.6 %
		Y	5.90	67.23	16.19		150.0	
		Z	5.89	67.32	16.18		150.0	
10556-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	6.02	67.86	16.69	0.00	150.0	± 9.6 %
		Y	5.93	67.30	16.21		150.0	
		Z	5.92	67.39	16.21		150.0	
10557-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.97	67.72	16.64	0.00	150.0	± 9.6 %
		Y	5.88	67.16	16.17		150.0	
		Z	5.88	67.27	16.17		150.0	

10558-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.01	67.87	16.73	0.00	150.0	± 9.6 %
		Y	5.92	67.31	16.26		150.0	
		Z	5.92	67.42	16.26		150.0	
10560-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.00	67.71	16.69	0.00	150.0	± 9.6 %
		Y	5.91	67.17	16.22		150.0	
		Z	5.92	67.28	16.23		150.0	
10561-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.94	67.72	16.73	0.00	150.0	± 9.6 %
		Y	5.85	67.17	16.26		150.0	
		Z	5.85	67.26	16.25		150.0	
10562-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.02	67.98	16.86	0.00	150.0	± 9.6 %
		Y	5.93	67.43	16.39		150.0	
		Z	5.93	67.53	16.39		150.0	
10563-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.11	67.87	16.77	0.00	150.0	± 9.6 %
		Y	6.03	67.36	16.32		150.0	
		Z	6.01	67.42	16.30		150.0	
10564-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	X	4.84	67.60	16.86	0.46	150.0	± 9.6 %
		Y	4.76	66.94	16.28		150.0	
		Z	4.77	67.07	16.31		150.0	
10565-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	X	5.05	68.00	17.15	0.46	150.0	± 9.6 %
		Y	4.96	67.35	16.59		150.0	
		Z	4.98	67.47	16.60		150.0	
10566-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	X	4.89	67.87	16.99	0.46	150.0	± 9.6 %
		Y	4.80	67.18	16.40		150.0	
		Z	4.82	67.31	16.42		150.0	
10567-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	X	4.92	68.26	17.34	0.46	150.0	± 9.6 %
		Y	4.83	67.55	16.75		150.0	
		Z	4.84	67.66	16.76		150.0	
10568-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	X	4.81	67.69	16.79	0.46	150.0	± 9.6 %
		Y	4.72	67.00	16.19		150.0	
		Z	4.74	67.13	16.23		150.0	
10569-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	X	4.90	68.45	17.47	0.46	150.0	± 9.6 %
		Y	4.80	67.71	16.85		150.0	
		Z	4.82	67.82	16.85		150.0	
10570-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	X	4.91	68.26	17.37	0.46	150.0	± 9.6 %
		Y	4.82	67.54	16.77		150.0	
		Z	4.84	67.65	16.78		150.0	
10571-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.39	68.54	18.34	0.46	130.0	± 9.6 %
		Y	1.22	65.10	15.55		130.0	
		Z	1.24	65.31	15.71		130.0	
10572-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.43	69.55	18.91	0.46	130.0	± 9.6 %
		Y	1.24	65.69	15.90		130.0	
		Z	1.26	65.89	16.05		130.0	
10573-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	100.00	159.88	44.36	0.46	130.0	± 9.6 %
		Y	2.62	87.08	22.76		130.0	
		Z	2.75	88.34	23.60		130.0	
10574-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	2.30	83.33	25.10	0.46	130.0	± 9.6 %
		Y	1.38	71.49	18.69		130.0	
		Z	1.40	71.55	18.82		130.0	

10575-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	X	4.65	67.47	16.97	0.46	130.0	± 9.6 %
		Y	4.56	66.80	16.37		130.0	
		Z	4.58	66.92	16.39		130.0	
10576-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	X	4.68	67.67	17.04	0.46	130.0	± 9.6 %
		Y	4.59	66.98	16.44		130.0	
		Z	4.61	67.09	16.46		130.0	
10577-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	X	4.85	67.90	17.18	0.46	130.0	± 9.6 %
		Y	4.77	67.23	16.59		130.0	
		Z	4.79	67.34	16.61		130.0	
10578-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	X	4.76	68.08	17.30	0.46	130.0	± 9.6 %
		Y	4.67	67.37	16.69		130.0	
		Z	4.69	67.47	16.70		130.0	
10579-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	X	4.52	67.37	16.63	0.46	130.0	± 9.6 %
		Y	4.44	66.66	16.00		130.0	
		Z	4.46	66.79	16.04		130.0	
10580-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	X	4.57	67.45	16.67	0.46	130.0	± 9.6 %
		Y	4.48	66.73	16.04		130.0	
		Z	4.51	66.87	16.08		130.0	
10581-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	X	4.68	68.20	17.30	0.46	130.0	± 9.6 %
		Y	4.58	67.44	16.65		130.0	
		Z	4.59	67.55	16.66		130.0	
10582-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	X	4.46	67.16	16.43	0.46	130.0	± 9.6 %
		Y	4.38	66.43	15.80		130.0	
		Z	4.40	66.59	15.85		130.0	
10583-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.65	67.47	16.97	0.46	130.0	± 9.6 %
		Y	4.56	66.80	16.37		130.0	
		Z	4.58	66.92	16.39		130.0	
10584-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.68	67.67	17.04	0.46	130.0	± 9.6 %
		Y	4.59	66.98	16.44		130.0	
		Z	4.61	67.09	16.46		130.0	
10585-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.85	67.90	17.18	0.46	130.0	± 9.6 %
		Y	4.77	67.23	16.59		130.0	
		Z	4.79	67.34	16.61		130.0	
10586-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.76	68.08	17.30	0.46	130.0	± 9.6 %
		Y	4.67	67.37	16.69		130.0	
		Z	4.69	67.47	16.70		130.0	
10587-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.52	67.37	16.63	0.46	130.0	± 9.6 %
		Y	4.44	66.66	16.00		130.0	
		Z	4.46	66.79	16.04		130.0	
10588-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.57	67.45	16.67	0.46	130.0	± 9.6 %
		Y	4.48	66.73	16.04		130.0	
		Z	4.51	66.87	16.08		130.0	
10589-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.68	68.20	17.30	0.46	130.0	± 9.6 %
		Y	4.58	67.44	16.65		130.0	
		Z	4.59	67.55	16.66		130.0	
10590-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.46	67.16	16.43	0.46	130.0	± 9.6 %
		Y	4.38	66.43	15.80		130.0	
		Z	4.40	66.59	15.85		130.0	

10591-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.79	67.49	17.04	0.46	130.0	± 9.6 %
		Y	4.72	66.87	16.48		130.0	
		Z	4.73	66.98	16.49		130.0	
10592-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.93	67.82	17.17	0.46	130.0	± 9.6 %
		Y	4.85	67.18	16.61		130.0	
		Z	4.87	67.29	16.62		130.0	
10593-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.85	67.72	17.05	0.46	130.0	± 9.6 %
		Y	4.77	67.07	16.48		130.0	
		Z	4.79	67.19	16.50		130.0	
10594-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.91	67.89	17.21	0.46	130.0	± 9.6 %
		Y	4.83	67.24	16.64		130.0	
		Z	4.84	67.35	16.65		130.0	
10595-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.88	67.89	17.13	0.46	130.0	± 9.6 %
		Y	4.79	67.21	16.54		130.0	
		Z	4.81	67.33	16.56		130.0	
10596-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.81	67.89	17.14	0.46	130.0	± 9.6 %
		Y	4.73	67.20	16.54		130.0	
		Z	4.75	67.32	16.56		130.0	
10597-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.76	67.77	17.01	0.46	130.0	± 9.6 %
		Y	4.68	67.08	16.41		130.0	
		Z	4.70	67.20	16.43		130.0	
10598-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.75	67.99	17.26	0.46	130.0	± 9.6 %
		Y	4.66	67.29	16.66		130.0	
		Z	4.68	67.40	16.67		130.0	
10599-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.46	67.90	17.20	0.46	130.0	± 9.6 %
		Y	5.39	67.38	16.72		130.0	
		Z	5.39	67.43	16.70		130.0	
10600-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.60	68.37	17.41	0.46	130.0	± 9.6 %
		Y	5.53	67.84	16.93		130.0	
		Z	5.51	67.83	16.88		130.0	
10601-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.48	68.09	17.29	0.46	130.0	± 9.6 %
		Y	5.41	67.56	16.80		130.0	
		Z	5.41	67.60	16.78		130.0	
10602-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.61	68.27	17.30	0.46	130.0	± 9.6 %
		Y	5.54	67.71	16.80		130.0	
		Z	5.54	67.78	16.79		130.0	
10603-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.68	68.53	17.56	0.46	130.0	± 9.6 %
		Y	5.60	67.96	17.06		130.0	
		Z	5.59	68.00	17.03		130.0	
10604-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.56	68.19	17.38	0.46	130.0	± 9.6 %
		Y	5.48	67.64	16.88		130.0	
		Z	5.47	67.67	16.85		130.0	
10605-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.59	68.28	17.42	0.46	130.0	± 9.6 %
		Y	5.53	67.75	16.94		130.0	
		Z	5.51	67.78	16.90		130.0	
10606-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.33	67.56	16.92	0.46	130.0	± 9.6 %
		Y	5.26	67.02	16.42		130.0	
		Z	5.26	67.10	16.42		130.0	

10607-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.65	66.90	16.72	0.46	130.0	± 9.6 %
		Y	4.55	66.17	16.10		130.0	
		Z	4.57	66.30	16.12		130.0	
10608-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.82	67.28	16.88	0.46	130.0	± 9.6 %
		Y	4.71	66.54	16.26		130.0	
		Z	4.73	66.66	16.27		130.0	
10609-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.71	67.14	16.72	0.46	130.0	± 9.6 %
		Y	4.61	66.38	16.09		130.0	
		Z	4.63	66.51	16.11		130.0	
10610-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.76	67.30	16.88	0.46	130.0	± 9.6 %
		Y	4.66	66.54	16.25		130.0	
		Z	4.67	66.66	16.27		130.0	
10611-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.68	67.11	16.74	0.46	130.0	± 9.6 %
		Y	4.57	66.35	16.10		130.0	
		Z	4.59	66.48	16.12		130.0	
10612-AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.69	67.30	16.81	0.46	130.0	± 9.6 %
		Y	4.58	66.50	16.15		130.0	
		Z	4.60	66.63	16.17		130.0	
10613-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.68	67.12	16.65	0.46	130.0	± 9.6 %
		Y	4.57	66.35	16.01		130.0	
		Z	4.59	66.48	16.04		130.0	
10614-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.64	67.32	16.89	0.46	130.0	± 9.6 %
		Y	4.53	66.53	16.24		130.0	
		Z	4.54	66.65	16.25		130.0	
10615-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.68	66.97	16.53	0.46	130.0	± 9.6 %
		Y	4.57	66.20	15.88		130.0	
		Z	4.59	66.34	15.92		130.0	
10616-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.28	67.16	16.82	0.46	130.0	± 9.6 %
		Y	5.20	66.58	16.30		130.0	
		Z	5.21	66.68	16.30		130.0	
10617-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.36	67.40	16.91	0.46	130.0	± 9.6 %
		Y	5.28	66.80	16.39		130.0	
		Z	5.28	66.87	16.38		130.0	
10618-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.26	67.44	16.95	0.46	130.0	± 9.6 %
		Y	5.17	66.81	16.40		130.0	
		Z	5.17	66.89	16.40		130.0	
10619-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.26	67.20	16.77	0.46	130.0	± 9.6 %
		Y	5.17	66.59	16.23		130.0	
		Z	5.18	66.68	16.23		130.0	
10620-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.34	67.21	16.81	0.46	130.0	± 9.6 %
		Y	5.26	66.62	16.30		130.0	
		Z	5.26	66.71	16.30		130.0	
10621-AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.34	67.32	16.98	0.46	130.0	± 9.6 %
		Y	5.26	66.75	16.48		130.0	
		Z	5.27	66.83	16.47		130.0	
10622-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.35	67.46	17.05	0.46	130.0	± 9.6 %
		Y	5.28	66.93	16.56		130.0	
		Z	5.27	66.98	16.53		130.0	

10623-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.23	66.99	16.69	0.46	130.0	± 9.6 %
		Y	5.15	66.41	16.18		130.0	
		Z	5.16	66.53	16.18		130.0	
10624-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.42	67.20	16.85	0.46	130.0	± 9.6 %
		Y	5.34	66.64	16.35		130.0	
		Z	5.35	66.73	16.35		130.0	
10625-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.63	67.73	17.17	0.46	130.0	± 9.6 %
		Y	5.58	67.24	16.71		130.0	
		Z	5.57	67.31	16.69		130.0	
10626-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.60	67.16	16.74	0.46	130.0	± 9.6 %
		Y	5.52	66.64	16.27		130.0	
		Z	5.52	66.74	16.27		130.0	
10627-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.85	67.83	17.04	0.46	130.0	± 9.6 %
		Y	5.77	67.28	16.56		130.0	
		Z	5.75	67.31	16.52		130.0	
10628-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.61	67.20	16.66	0.46	130.0	± 9.6 %
		Y	5.53	66.67	16.19		130.0	
		Z	5.54	66.78	16.19		130.0	
10629-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.70	67.32	16.71	0.46	130.0	± 9.6 %
		Y	5.62	66.78	16.24		130.0	
		Z	5.62	66.87	16.23		130.0	
10630-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.07	68.67	17.39	0.46	130.0	± 9.6 %
		Y	6.00	68.13	16.92		130.0	
		Z	5.94	68.05	16.83		130.0	
10631-AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.97	68.45	17.46	0.46	130.0	± 9.6 %
		Y	5.89	67.90	16.98		130.0	
		Z	5.88	67.93	16.94		130.0	
10632-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.82	67.90	17.21	0.46	130.0	± 9.6 %
		Y	5.74	67.35	16.73		130.0	
		Z	5.72	67.37	16.68		130.0	
10633-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.68	67.41	16.80	0.46	130.0	± 9.6 %
		Y	5.60	66.87	16.32		130.0	
		Z	5.60	66.97	16.31		130.0	
10634-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.66	67.41	16.85	0.46	130.0	± 9.6 %
		Y	5.57	66.87	16.37		130.0	
		Z	5.58	66.98	16.37		130.0	
10635-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.53	66.73	16.25	0.46	130.0	± 9.6 %
		Y	5.45	66.20	15.78		130.0	
		Z	5.46	66.34	15.80		130.0	
10636-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.03	67.50	16.80	0.46	130.0	± 9.6 %
		Y	5.95	67.01	16.37		130.0	
		Z	5.95	67.10	16.36		130.0	
10637-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.18	67.89	16.98	0.46	130.0	± 9.6 %
		Y	6.10	67.40	16.55		130.0	
		Z	6.09	67.46	16.52		130.0	
10638-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.18	67.87	16.95	0.46	130.0	± 9.6 %
		Y	6.10	67.37	16.51		130.0	
		Z	6.09	67.44	16.49		130.0	

10639-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.14	67.77	16.94	0.46	130.0	± 9.6 %
		Y	6.06	67.27	16.50		130.0	
		Z	6.06	67.36	16.49		130.0	
10640-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.14	67.79	16.90	0.46	130.0	± 9.6 %
		Y	6.06	67.28	16.45		130.0	
		Z	6.06	67.37	16.45		130.0	
10641-AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.21	67.77	16.91	0.46	130.0	± 9.6 %
		Y	6.13	67.28	16.47		130.0	
		Z	6.12	67.34	16.45		130.0	
10642-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.22	67.93	17.15	0.46	130.0	± 9.6 %
		Y	6.15	67.45	16.72		130.0	
		Z	6.14	67.53	16.70		130.0	
10643-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.08	67.68	16.93	0.46	130.0	± 9.6 %
		Y	6.00	67.18	16.48		130.0	
		Z	6.00	67.26	16.47		130.0	
10644-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.18	67.98	17.10	0.46	130.0	± 9.6 %
		Y	6.10	67.49	16.66		130.0	
		Z	6.10	67.58	16.65		130.0	
10645-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.32	68.06	17.10	0.46	130.0	± 9.6 %
		Y	6.25	67.59	16.68		130.0	
		Z	6.22	67.60	16.62		130.0	
10646-AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	100.00	154.11	50.71	9.30	60.0	± 9.6 %
		Y	85.82	146.30	47.76		60.0	
		Z	100.00	151.52	49.47		60.0	
10647-AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	100.00	155.63	51.38	9.30	60.0	± 9.6 %
		Y	67.85	141.83	46.85		60.0	
		Z	100.00	152.93	50.09		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	1.06	70.77	14.07	0.00	150.0	± 9.6 %
		Y	0.56	62.00	8.87		150.0	
		Z	0.60	62.58	9.50		150.0	
10652-AAD	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	4.36	70.70	18.37	2.23	80.0	± 9.6 %
		Y	3.96	68.40	16.96		80.0	
		Z	3.96	68.48	17.00		80.0	
10653-AAD	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.65	68.82	18.04	2.23	80.0	± 9.6 %
		Y	4.44	67.50	17.11		80.0	
		Z	4.44	67.58	17.12		80.0	
10654-AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.59	68.27	17.98	2.23	80.0	± 9.6 %
		Y	4.42	67.11	17.12		80.0	
		Z	4.42	67.19	17.13		80.0	
10655-AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.64	68.14	17.98	2.23	80.0	± 9.6 %
		Y	4.48	67.05	17.15		80.0	
		Z	4.49	67.14	17.17		80.0	
10658-AAA	Pulse Waveform (200Hz, 10%)	X	100.00	116.19	29.17	10.00	50.0	± 9.6 %
		Y	100.00	114.83	28.64		50.0	
		Z	100.00	116.26	29.35		50.0	
10659-AAA	Pulse Waveform (200Hz, 20%)	X	100.00	114.21	27.33	6.99	60.0	± 9.6 %
		Y	100.00	111.64	26.23		60.0	
		Z	100.00	113.42	27.07		60.0	

10660-AAA	Pulse Waveform (200Hz, 40%)	X	100.00	115.66	26.72	3.98	80.0	± 9.6 %
		Y	100.00	109.80	24.16		80.0	
		Z	100.00	112.50	25.39		80.0	
10661-AAA	Pulse Waveform (200Hz, 60%)	X	100.00	122.78	28.50	2.22	100.0	± 9.6 %
		Y	100.00	109.73	22.95		100.0	
		Z	100.00	114.21	24.92		100.0	
10662-AAA	Pulse Waveform (200Hz, 80%)	X	100.00	153.24	38.77	0.97	120.0	± 9.6 %
		Y	100.00	108.44	20.84		120.0	
		Z	100.00	118.57	25.05		120.0	
10670-AAA	Bluetooth Low Energy	X	100.00	122.74	28.87	2.19	100.0	± 9.6 %
		Y	100.00	111.53	24.06		100.0	
		Z	100.00	115.23	25.69		100.0	

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **PC Test**

Certificate No: **EX3-3837_Mar18**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3837**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v4, QA CAL-23.v5,
QA CAL-25.v6
Calibration procedure for dosimetric E-field probes**

SC ✓
3/2/18

Calibration date: **March 16, 2018**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02525)	Apr-18
Reference 20 dB Attenuator	SN: S5277 (20x)	07-Apr-17 (No. 217-02528)	Apr-18
Reference Probe ES3DV2	SN: 3013	30-Dec-17 (No. ES3-3013_Dec17)	Dec-18
DAE4	SN: 660	21-Dec-17 (No. DAE4-660_Dec17)	Dec-18
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-17)	In house check: Oct-18

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			

Issued: March 17, 2018



Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization ϕ	ϕ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E^2 -field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z}** = NORM_{x,y,z} * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,y,z}**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM_x (no uncertainty required).

Probe EX3DV4

SN:3837

Manufactured: November 7, 2011
Calibrated: March 16, 2018

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3837

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.46	0.46	0.24	$\pm 10.1 \%$
DCP (mV) ^B	100.0	95.0	91.4	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	133.6	$\pm 2.5 \%$
		Y	0.0	0.0	1.0		132.0	
		Z	0.0	0.0	1.0		134.4	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 $\text{ms} \cdot \text{V}^{-2}$	T2 $\text{ms} \cdot \text{V}^{-1}$	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
X	45.57	340.2	35.78	10.62	0.398	5.043	1.258	0.358	1.006
Y	52.82	412.7	38.56	10.70	0.721	5.066	0.000	0.679	1.010
Z	55.06	428.3	38.40	7.269	0.741	5.034	0.000	0.592	1.006

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A The uncertainties of Norm X,Y,Z do not affect the E^2 -field uncertainty inside TSL (see Pages 5 and 6).

^B Numerical linearization parameter: uncertainty not required.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3837

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
30	55.0	0.75	14.25	14.25	14.25	0.00	1.00	± 13.3 %
5250	35.9	4.71	5.50	5.50	5.50	0.35	1.80	± 13.1 %
5600	35.5	5.07	4.88	4.88	4.88	0.40	1.80	± 13.1 %
5750	35.4	5.22	5.04	5.04	5.04	0.40	1.80	± 13.1 %

^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3837

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
5250	48.9	5.36	4.84	4.84	4.84	0.45	1.90	± 13.1 %
5600	48.5	5.77	4.13	4.13	4.13	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.43	4.43	4.43	0.50	1.90	± 13.1 %

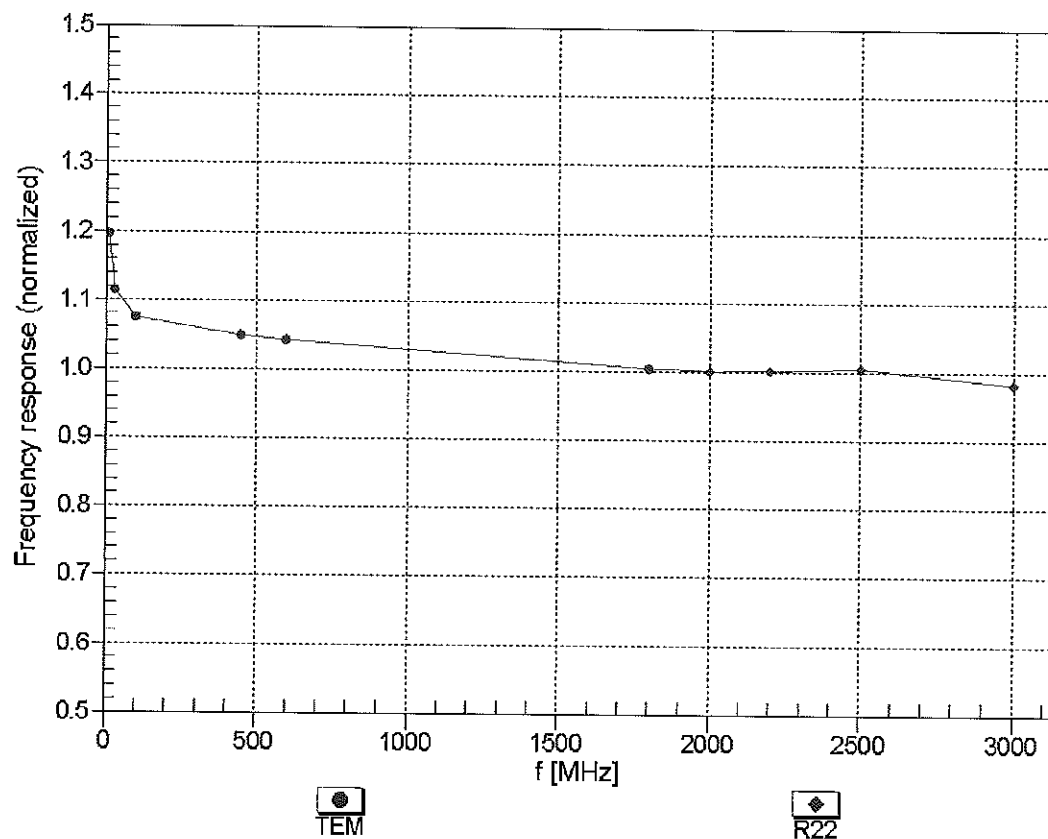
^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10 , 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to $\pm 10\%$ if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to $\pm 5\%$. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than $\pm 1\%$ for frequencies below 3 GHz and below $\pm 2\%$ for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Frequency Response of E-Field

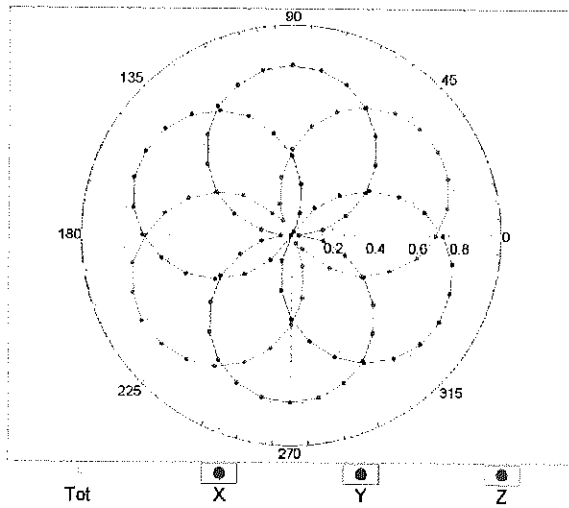
(TEM-Cell:ifi110 EXX, Waveguide: R22)



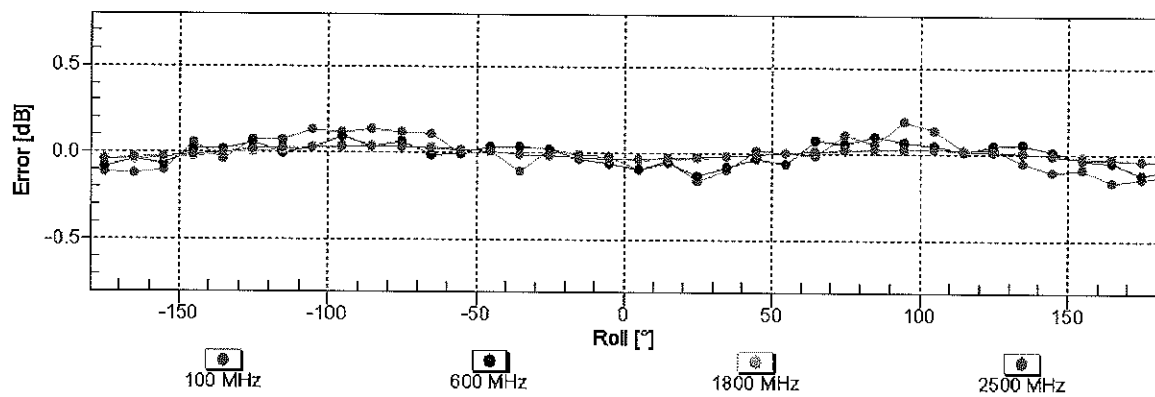
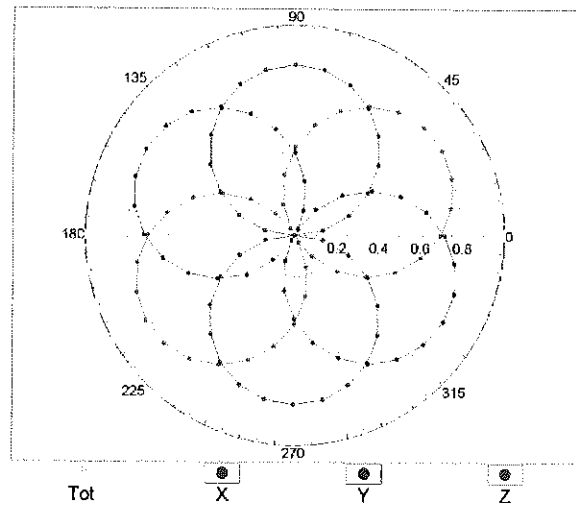
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

Receiving Pattern (ϕ), $\theta = 0^\circ$

f=600 MHz,TEM

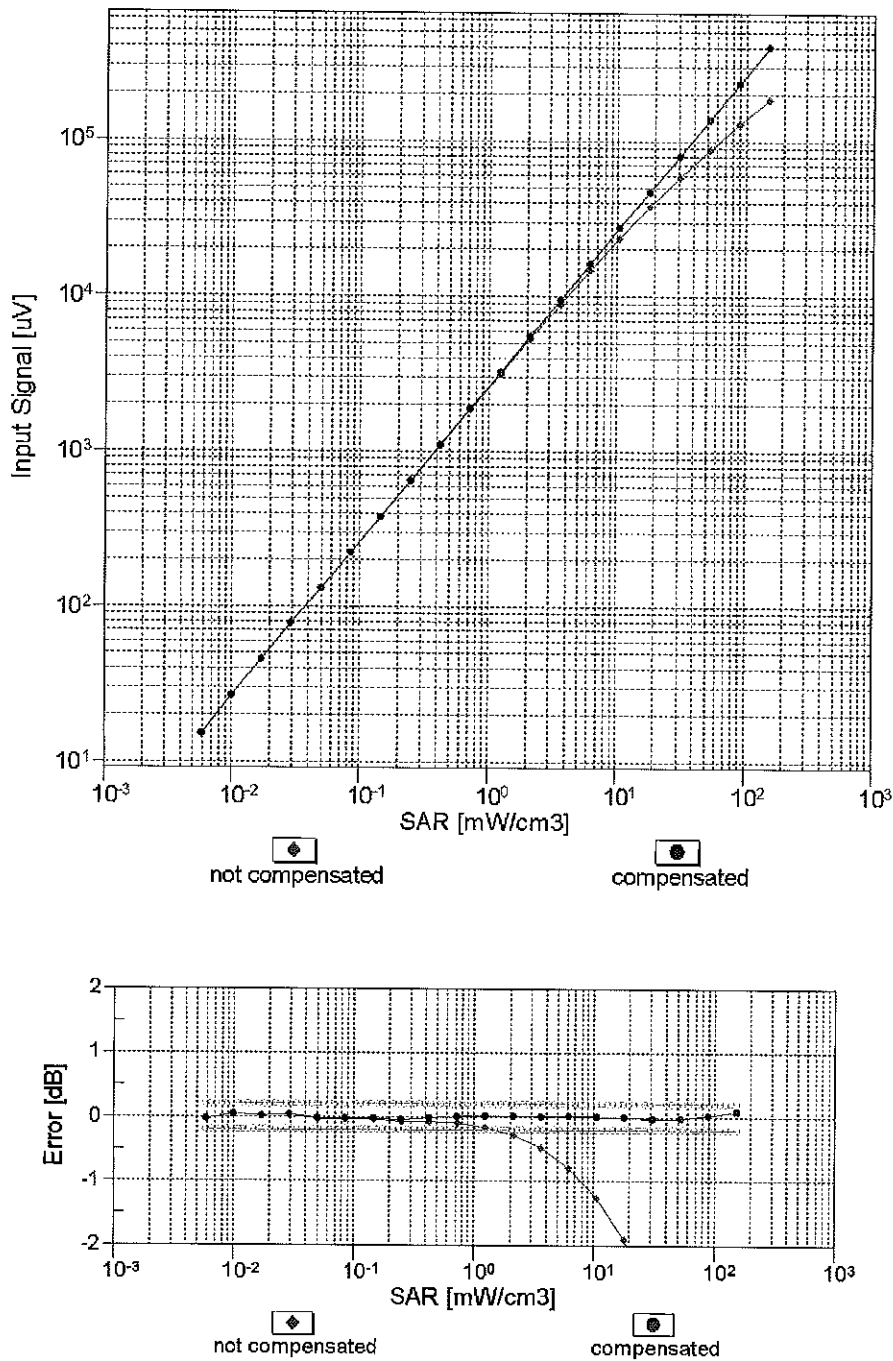


f=1800 MHz,R22



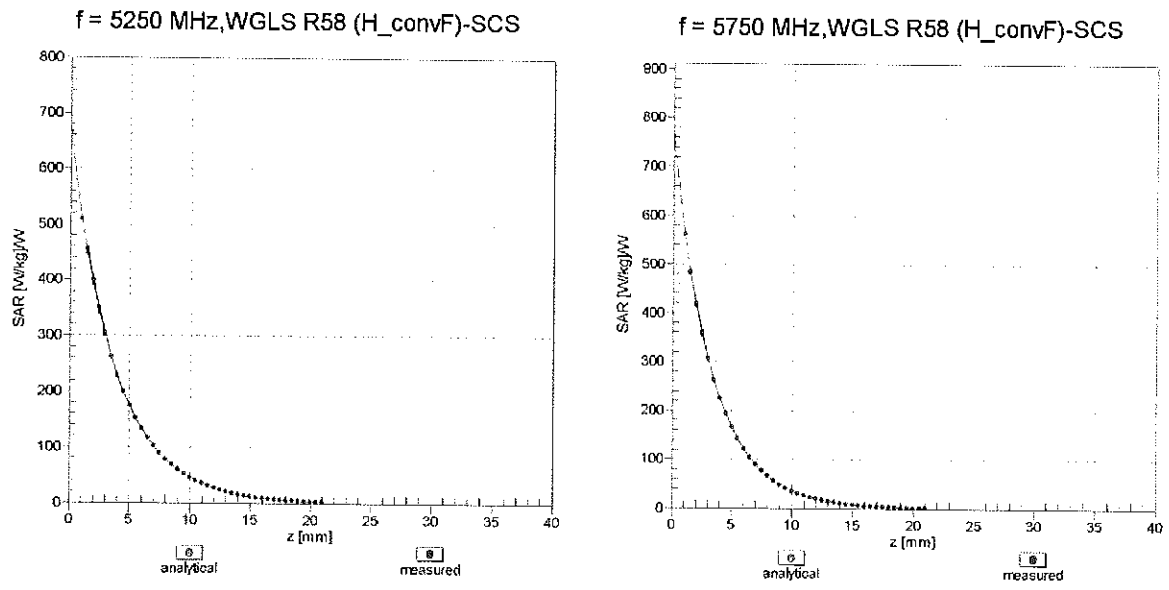
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Dynamic Range f(SAR_{head})
(TEM cell , f_{eval}= 1900 MHz)



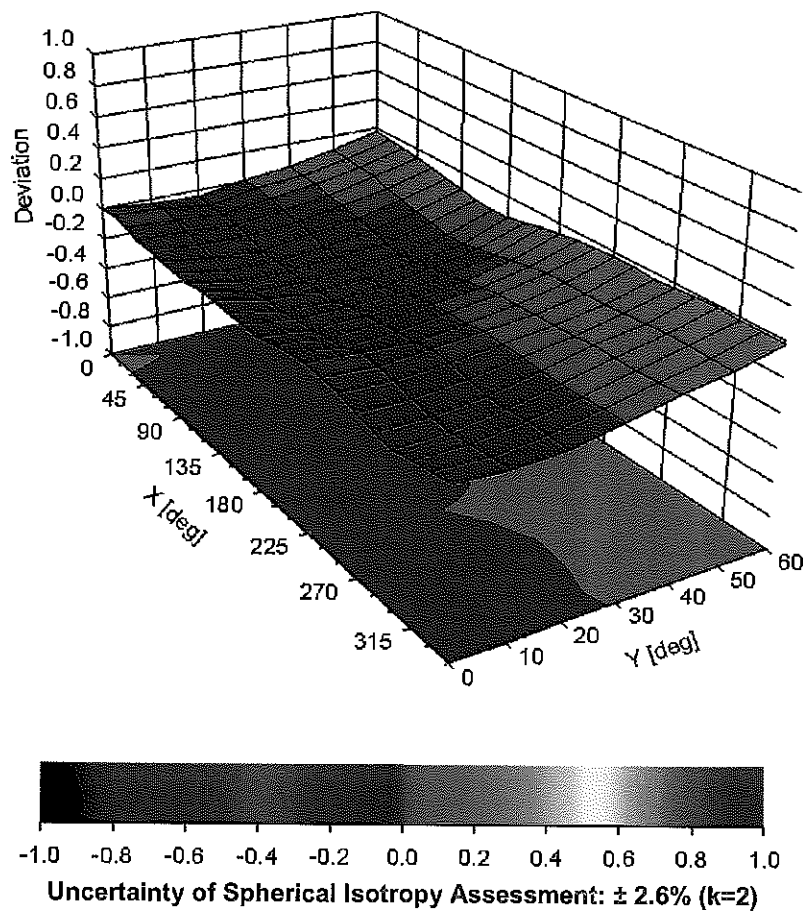
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ , θ), $f = 900 \text{ MHz}$



DASY/EASY - Parameters of Probe: EX3DV4 - SN:3837

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	74.7
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu V}$	C	D dB	VR mV	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	133.6	$\pm 2.5 \%$
		Y	0.00	0.00	1.00		132.0	
		Z	0.00	0.00	1.00		134.4	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	2.03	64.95	9.51	10.00	20.0	$\pm 9.6 \%$
		Y	1.97	63.98	9.16		20.0	
		Z	1.85	63.08	8.50		20.0	
10011- CAB	UMTS-FDD (WCDMA)	X	1.28	72.25	18.00	0.00	150.0	$\pm 9.6 \%$
		Y	0.93	66.60	14.42		150.0	
		Z	1.13	70.25	16.68		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.18	64.97	16.30	0.41	150.0	$\pm 9.6 \%$
		Y	1.06	63.26	14.90		150.0	
		Z	1.09	64.06	15.74		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	X	4.83	66.83	17.25	1.46	150.0	$\pm 9.6 \%$
		Y	4.84	66.39	17.06		150.0	
		Z	4.85	66.45	17.14		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	100.00	110.75	25.49	9.39	50.0	$\pm 9.6 \%$
		Y	100.00	111.10	25.91		50.0	
		Z	48.02	100.28	22.67		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	110.33	25.35	9.57	50.0	$\pm 9.6 \%$
		Y	100.00	110.88	25.86		50.0	
		Z	19.64	89.95	19.98		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	110.84	24.47	6.56	60.0	$\pm 9.6 \%$
		Y	100.00	108.80	23.72		60.0	
		Z	100.00	106.11	22.30		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	5.45	80.17	31.75	12.57	50.0	$\pm 9.6 \%$
		Y	3.93	68.30	24.95		50.0	
		Z	3.54	65.29	22.96		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	9.53	95.10	34.35	9.56	60.0	$\pm 9.6 \%$
		Y	8.87	91.37	32.43		60.0	
		Z	7.83	88.30	31.08		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	112.83	24.58	4.80	80.0	$\pm 9.6 \%$
		Y	100.00	107.21	22.22		80.0	
		Z	100.00	104.35	20.69		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	116.67	25.52	3.55	100.0	$\pm 9.6 \%$
		Y	100.00	105.18	20.65		100.0	
		Z	100.00	102.00	19.00		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	5.56	82.09	28.08	7.80	80.0	$\pm 9.6 \%$
		Y	5.61	81.11	27.31		80.0	
		Z	5.04	78.94	26.34		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	109.70	23.52	5.30	70.0	$\pm 9.6 \%$
		Y	100.00	106.53	22.24		70.0	
		Z	100.00	103.90	20.83		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	117.25	24.30	1.88	100.0	$\pm 9.6 \%$
		Y	0.36	61.16	5.47		100.0	
		Z	0.24	60.00	4.36		100.0	

10032-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	142.46	32.89	1.17	100.0	± 9.6 %
		Y	0.19	60.00	3.50		100.0	
		Z	47.65	61.02	1.54		100.0	
10033-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	75.36	125.33	33.61	5.30	70.0	± 9.6 %
		Y	17.26	101.58	27.60		70.0	
		Z	12.23	96.92	26.29		70.0	
10034-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	9.06	94.35	24.05	1.88	100.0	± 9.6 %
		Y	2.87	77.35	18.29		100.0	
		Z	3.15	79.89	19.62		100.0	
10035-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	4.40	85.21	20.99	1.17	100.0	± 9.6 %
		Y	1.80	71.96	15.84		100.0	
		Z	2.08	75.09	17.57		100.0	
10036-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	100.00	130.25	34.85	5.30	70.0	± 9.6 %
		Y	31.85	111.50	30.35		70.0	
		Z	21.04	105.76	28.87		70.0	
10037-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	7.39	91.62	23.22	1.88	100.0	± 9.6 %
		Y	2.68	76.50	17.93		100.0	
		Z	2.89	78.82	19.19		100.0	
10038-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	4.58	86.18	21.46	1.17	100.0	± 9.6 %
		Y	1.83	72.50	16.18		100.0	
		Z	2.15	75.86	18.00		100.0	
10039-CAB	CDMA2000 (1xRTT, RC1)	X	4.21	84.26	20.24	0.00	150.0	± 9.6 %
		Y	1.58	69.80	14.38		150.0	
		Z	2.61	77.09	17.86		150.0	
10042-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	X	100.00	107.13	23.10	7.78	50.0	± 9.6 %
		Y	100.00	106.13	22.81		50.0	
		Z	5.57	76.12	14.29		50.0	
10044-CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.01	119.48	4.98	0.00	150.0	± 9.6 %
		Y	0.20	127.74	0.55		150.0	
		Z	0.17	132.08	12.71		150.0	
10048-CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	35.57	95.27	22.61	13.80	25.0	± 9.6 %
		Y	13.44	83.93	20.02		25.0	
		Z	6.71	73.54	16.05		25.0	
10049-CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	100.00	109.17	25.17	10.79	40.0	± 9.6 %
		Y	18.00	89.53	20.64		40.0	
		Z	6.88	76.63	16.02		40.0	
10056-CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	100.00	123.08	32.78	9.03	50.0	± 9.6 %
		Y	23.83	100.47	27.19		50.0	
		Z	16.38	93.88	24.93		50.0	
10058-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	4.26	76.58	24.95	6.55	100.0	± 9.6 %
		Y	4.34	76.15	24.46		100.0	
		Z	3.96	74.54	23.77		100.0	
10059-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.22	66.27	17.02	0.61	110.0	± 9.6 %
		Y	1.10	64.38	15.54		110.0	
		Z	1.11	65.15	16.35		110.0	
10060-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	100.00	145.56	38.66	1.30	110.0	± 9.6 %
		Y	79.31	131.95	33.33		110.0	
		Z	100.00	140.55	36.12		110.0	

10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	4.10	89.25	26.11	2.04	110.0	± 9.6 %
		Y	2.95	82.10	22.86		110.0	
		Z	2.81	82.64	23.42		110.0	
10062-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.65	66.90	16.74	0.49	100.0	± 9.6 %
		Y	4.65	66.39	16.48		100.0	
		Z	4.69	66.55	16.65		100.0	
10063-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.66	66.98	16.83	0.72	100.0	± 9.6 %
		Y	4.66	66.49	16.58		100.0	
		Z	4.70	66.63	16.74		100.0	
10064-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.94	67.22	17.03	0.86	100.0	± 9.6 %
		Y	4.97	66.79	16.84		100.0	
		Z	5.01	66.93	16.98		100.0	
10065-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.80	67.09	17.12	1.21	100.0	± 9.6 %
		Y	4.83	66.69	16.93		100.0	
		Z	4.86	66.80	17.05		100.0	
10066-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.81	67.10	17.28	1.46	100.0	± 9.6 %
		Y	4.85	66.72	17.10		100.0	
		Z	4.87	66.80	17.20		100.0	
10067-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.09	67.23	17.69	2.04	100.0	± 9.6 %
		Y	5.14	66.84	17.53		100.0	
		Z	5.14	66.84	17.56		100.0	
10068-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.13	67.22	17.88	2.55	100.0	± 9.6 %
		Y	5.20	66.96	17.79		100.0	
		Z	5.20	66.96	17.81		100.0	
10069-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.20	67.22	18.06	2.67	100.0	± 9.6 %
		Y	5.28	66.93	17.97		100.0	
		Z	5.28	66.90	17.97		100.0	
10071-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.91	66.88	17.53	1.99	100.0	± 9.6 %
		Y	4.93	66.48	17.36		100.0	
		Z	4.94	66.50	17.42		100.0	
10072-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.88	67.19	17.74	2.30	100.0	± 9.6 %
		Y	4.92	66.83	17.59		100.0	
		Z	4.92	66.83	17.62		100.0	
10073-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	4.93	67.31	18.05	2.83	100.0	± 9.6 %
		Y	4.97	66.97	17.90		100.0	
		Z	4.96	66.91	17.89		100.0	
10074-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.91	67.18	18.17	3.30	100.0	± 9.6 %
		Y	4.94	66.83	18.04		100.0	
		Z	4.91	66.74	18.01		100.0	
10075-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	4.93	67.25	18.46	3.82	90.0	± 9.6 %
		Y	4.98	66.98	18.37		90.0	
		Z	4.95	66.88	18.32		90.0	
10076-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	4.94	67.02	18.57	4.15	90.0	± 9.6 %
		Y	4.98	66.70	18.45		90.0	
		Z	4.93	66.56	18.37		90.0	
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	4.96	67.08	18.66	4.30	90.0	± 9.6 %
		Y	5.00	66.75	18.54		90.0	
		Z	4.95	66.60	18.45		90.0	

10081-CAB	CDMA2000 (1xRTT, RC3)	X	1.22	72.11	15.38	0.00	150.0	± 9.6 %
		Y	0.71	64.23	11.07		150.0	
		Z	0.94	68.15	13.57		150.0	
10082-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	X	0.46	58.22	3.03	4.77	80.0	± 9.6 %
		Y	2.52	64.99	5.75		80.0	
		Z	17.73	69.69	6.27		80.0	
10090-DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	110.88	24.51	6.56	60.0	± 9.6 %
		Y	100.00	108.92	23.80		60.0	
		Z	100.00	106.22	22.37		60.0	
10097-CAB	UMTS-FDD (HSDPA)	X	2.03	70.22	17.14	0.00	150.0	± 9.6 %
		Y	1.72	66.96	15.21		150.0	
		Z	1.88	68.77	16.45		150.0	
10098-CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.99	70.21	17.13	0.00	150.0	± 9.6 %
		Y	1.68	66.91	15.17		150.0	
		Z	1.84	68.75	16.42		150.0	
10099-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	9.62	95.30	34.41	9.56	60.0	± 9.6 %
		Y	8.94	91.50	32.47		60.0	
		Z	7.88	88.41	31.12		60.0	
10100-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.39	72.22	17.78	0.00	150.0	± 9.6 %
		Y	3.04	69.79	16.32		150.0	
		Z	3.32	71.43	17.27		150.0	
10101-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.31	68.32	16.51	0.00	150.0	± 9.6 %
		Y	3.18	67.17	15.74		150.0	
		Z	3.30	67.92	16.28		150.0	
10102-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.41	68.23	16.57	0.00	150.0	± 9.6 %
		Y	3.29	67.15	15.86		150.0	
		Z	3.40	67.86	16.37		150.0	
10103-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	6.20	76.40	20.96	3.98	65.0	± 9.6 %
		Y	5.84	74.64	20.13		65.0	
		Z	5.59	74.11	19.90		65.0	
10104-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	5.98	73.69	20.61	3.98	65.0	± 9.6 %
		Y	5.92	72.87	20.21		65.0	
		Z	5.64	72.17	19.91		65.0	
10105-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	5.57	72.09	20.19	3.98	65.0	± 9.6 %
		Y	5.84	72.51	20.38		65.0	
		Z	5.27	70.68	19.54		65.0	
10108-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.95	71.50	17.66	0.00	150.0	± 9.6 %
		Y	2.66	69.08	16.17		150.0	
		Z	2.91	70.73	17.16		150.0	
10109-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.97	68.35	16.51	0.00	150.0	± 9.6 %
		Y	2.84	67.00	15.64		150.0	
		Z	2.97	67.87	16.26		150.0	
10110-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.41	70.87	17.41	0.00	150.0	± 9.6 %
		Y	2.15	68.17	15.76		150.0	
		Z	2.37	69.92	16.86		150.0	
10111-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.76	69.84	17.09	0.00	150.0	± 9.6 %
		Y	2.54	67.71	15.87		150.0	
		Z	2.72	68.98	16.76		150.0	

10112-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.09	68.29	16.53	0.00	150.0	± 9.6 %
		Y	2.97	66.99	15.71		150.0	
		Z	3.09	67.79	16.30		150.0	
10113-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.91	69.90	17.18	0.00	150.0	± 9.6 %
		Y	2.70	67.86	16.03		150.0	
		Z	2.87	69.05	16.86		150.0	
10114-CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.12	67.46	16.69	0.00	150.0	± 9.6 %
		Y	5.11	66.96	16.40		150.0	
		Z	5.16	67.19	16.62		150.0	
10115-CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.39	67.52	16.72	0.00	150.0	± 9.6 %
		Y	5.44	67.21	16.54		150.0	
		Z	5.52	67.50	16.78		150.0	
10116-CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.21	67.64	16.70	0.00	150.0	± 9.6 %
		Y	5.22	67.22	16.46		150.0	
		Z	5.29	67.47	16.68		150.0	
10117-CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.08	67.30	16.63	0.00	150.0	± 9.6 %
		Y	5.08	66.84	16.36		150.0	
		Z	5.14	67.11	16.59		150.0	
10118-CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.47	67.73	16.83	0.00	150.0	± 9.6 %
		Y	5.54	67.49	16.69		150.0	
		Z	5.61	67.75	16.91		150.0	
10119-CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.20	67.59	16.69	0.00	150.0	± 9.6 %
		Y	5.20	67.16	16.44		150.0	
		Z	5.26	67.41	16.66		150.0	
10140-CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.44	68.23	16.48	0.00	150.0	± 9.6 %
		Y	3.33	67.14	15.77		150.0	
		Z	3.44	67.84	16.28		150.0	
10141-CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.56	68.31	16.64	0.00	150.0	± 9.6 %
		Y	3.45	67.25	15.95		150.0	
		Z	3.57	67.91	16.44		150.0	
10142-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	2.25	71.50	17.32	0.00	150.0	± 9.6 %
		Y	1.91	68.03	15.35		150.0	
		Z	2.16	70.17	16.69		150.0	
10143-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.76	71.42	17.10	0.00	150.0	± 9.6 %
		Y	2.39	68.25	15.48		150.0	
		Z	2.64	70.08	16.68		150.0	
10144-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.35	68.05	14.99	0.00	150.0	± 9.6 %
		Y	2.18	66.04	13.91		150.0	
		Z	2.34	67.23	14.80		150.0	
10145-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.36	67.30	12.78	0.00	150.0	± 9.6 %
		Y	1.12	64.08	11.11		150.0	
		Z	1.36	66.73	12.92		150.0	
10146-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	2.05	66.97	11.67	0.00	150.0	± 9.6 %
		Y	2.09	66.87	12.31		150.0	
		Z	2.14	67.42	12.70		150.0	
10147-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	2.62	69.79	13.07	0.00	150.0	± 9.6 %
		Y	2.51	69.23	13.56		150.0	
		Z	2.66	70.25	14.16		150.0	

10149-CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.98	68.42	16.56	0.00	150.0	± 9.6 %
		Y	2.85	67.06	15.68		150.0	
		Z	2.98	67.94	16.32		150.0	
10150-CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.10	68.35	16.57	0.00	150.0	± 9.6 %
		Y	2.97	67.05	15.75		150.0	
		Z	3.10	67.86	16.35		150.0	
10151-CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	6.73	79.63	22.36	3.98	65.0	± 9.6 %
		Y	6.22	77.38	21.36		65.0	
		Z	5.82	76.46	21.00		65.0	
10152-CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	5.54	73.78	20.36	3.98	65.0	± 9.6 %
		Y	5.45	72.82	19.92		65.0	
		Z	5.18	72.08	19.62		65.0	
10153-CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	5.91	74.77	21.16	3.98	65.0	± 9.6 %
		Y	5.80	73.76	20.72		65.0	
		Z	5.51	72.99	20.42		65.0	
10154-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.48	71.44	17.74	0.00	150.0	± 9.6 %
		Y	2.20	68.63	16.05		150.0	
		Z	2.45	70.58	17.24		150.0	
10155-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.77	69.86	17.11	0.00	150.0	± 9.6 %
		Y	2.54	67.72	15.89		150.0	
		Z	2.72	68.98	16.76		150.0	
10156-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	2.16	72.20	17.36	0.00	150.0	± 9.6 %
		Y	1.76	68.05	15.09		150.0	
		Z	2.05	70.66	16.69		150.0	
10157-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.27	69.22	15.28	0.00	150.0	± 9.6 %
		Y	2.00	66.48	13.85		150.0	
		Z	2.21	68.13	15.00		150.0	
10158-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.92	69.98	17.23	0.00	150.0	± 9.6 %
		Y	2.71	67.92	16.08		150.0	
		Z	2.88	69.12	16.92		150.0	
10159-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.41	69.84	15.62	0.00	150.0	± 9.6 %
		Y	2.10	66.93	14.15		150.0	
		Z	2.35	68.72	15.36		150.0	
10160-CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.89	70.19	17.26	0.00	150.0	± 9.6 %
		Y	2.70	68.35	16.09		150.0	
		Z	2.88	69.59	16.90		150.0	
10161-CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3.00	68.36	16.53	0.00	150.0	± 9.6 %
		Y	2.87	66.97	15.67		150.0	
		Z	2.99	67.81	16.30		150.0	
10162-CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.11	68.50	16.63	0.00	150.0	± 9.6 %
		Y	2.98	67.10	15.78		150.0	
		Z	3.10	67.90	16.38		150.0	
10166-CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.72	70.89	19.86	3.01	150.0	± 9.6 %
		Y	3.67	69.70	19.28		150.0	
		Z	3.62	69.60	19.26		150.0	
10167-CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	4.89	74.90	20.67	3.01	150.0	± 9.6 %
		Y	4.56	72.45	19.62		150.0	
		Z	4.46	72.29	19.59		150.0	

10168-CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	5.65	78.00	22.32	3.01	150.0	± 9.6 %
		Y	5.11	74.92	21.06		150.0	
		Z	5.03	74.89	21.10		150.0	
10169-CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.21	70.99	19.94	3.01	150.0	± 9.6 %
		Y	3.13	69.60	19.22		150.0	
		Z	3.04	69.55	19.25		150.0	
10170-CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	5.20	79.96	23.31	3.01	150.0	± 9.6 %
		Y	4.44	75.73	21.57		150.0	
		Z	4.36	76.12	21.82		150.0	
10171-AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	3.92	73.95	19.84	3.01	150.0	± 9.6 %
		Y	3.57	71.07	18.57		150.0	
		Z	3.42	70.98	18.56		150.0	
10172-CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	8.65	93.75	29.69	6.02	65.0	± 9.6 %
		Y	8.02	90.08	28.24		65.0	
		Z	6.86	87.22	26.94		65.0	
10173-CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	34.56	113.88	33.23	6.02	65.0	± 9.6 %
		Y	16.66	99.21	29.19		65.0	
		Z	12.68	94.37	27.34		65.0	
10174-CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	17.89	100.71	28.93	6.02	65.0	± 9.6 %
		Y	11.68	91.66	26.27		65.0	
		Z	7.88	85.16	23.78		65.0	
10175-CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	3.16	70.61	19.66	3.01	150.0	± 9.6 %
		Y	3.09	69.23	18.94		150.0	
		Z	2.99	69.15	18.95		150.0	
10176-CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	5.21	80.00	23.33	3.01	150.0	± 9.6 %
		Y	4.45	75.76	21.59		150.0	
		Z	4.36	76.14	21.83		150.0	
10177-CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.19	70.79	19.76	3.01	150.0	± 9.6 %
		Y	3.12	69.41	19.05		150.0	
		Z	3.02	69.35	19.07		150.0	
10178-CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	5.14	79.69	23.18	3.01	150.0	± 9.6 %
		Y	4.39	75.47	21.44		150.0	
		Z	4.29	75.79	21.66		150.0	
10179-CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	4.49	76.75	21.41	3.01	150.0	± 9.6 %
		Y	3.95	73.19	19.90		150.0	
		Z	3.82	73.28	19.99		150.0	
10180-CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	3.91	73.86	19.78	3.01	150.0	± 9.6 %
		Y	3.56	70.98	18.51		150.0	
		Z	3.41	70.87	18.49		150.0	
10181-CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.18	70.77	19.75	3.01	150.0	± 9.6 %
		Y	3.11	69.39	19.04		150.0	
		Z	3.02	69.33	19.06		150.0	
10182-CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	5.13	79.66	23.17	3.01	150.0	± 9.6 %
		Y	4.38	75.45	21.42		150.0	
		Z	4.29	75.77	21.64		150.0	
10183-AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	3.90	73.83	19.77	3.01	150.0	± 9.6 %
		Y	3.55	70.96	18.50		150.0	
		Z	3.40	70.85	18.48		150.0	

10184-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	3.20	70.82	19.78	3.01	150.0	± 9.6 %
		Y	3.12	69.44	19.07		150.0	
		Z	3.03	69.38	19.09		150.0	
10185-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	5.16	79.75	23.21	3.01	150.0	± 9.6 %
		Y	4.40	75.52	21.47		150.0	
		Z	4.31	75.85	21.69		150.0	
10186-AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	3.92	73.91	19.81	3.01	150.0	± 9.6 %
		Y	3.57	71.02	18.54		150.0	
		Z	3.42	70.92	18.52		150.0	
10187-CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.21	70.89	19.85	3.01	150.0	± 9.6 %
		Y	3.13	69.49	19.13		150.0	
		Z	3.04	69.42	19.15		150.0	
10188-CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	5.40	80.72	23.69	3.01	150.0	± 9.6 %
		Y	4.57	76.31	21.90		150.0	
		Z	4.50	76.77	22.18		150.0	
10189-AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	4.04	74.49	20.14	3.01	150.0	± 9.6 %
		Y	3.65	71.49	18.83		150.0	
		Z	3.51	71.43	18.84		150.0	
10193-CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.52	66.93	16.42	0.00	150.0	± 9.6 %
		Y	4.49	66.31	16.09		150.0	
		Z	4.55	66.58	16.35		150.0	
10194-CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.68	67.24	16.54	0.00	150.0	± 9.6 %
		Y	4.67	66.65	16.21		150.0	
		Z	4.74	66.93	16.47		150.0	
10195-CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.72	67.26	16.55	0.00	150.0	± 9.6 %
		Y	4.71	66.68	16.23		150.0	
		Z	4.78	66.95	16.48		150.0	
10196-CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.52	66.99	16.43	0.00	150.0	± 9.6 %
		Y	4.50	66.39	16.11		150.0	
		Z	4.56	66.67	16.38		150.0	
10197-CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.70	67.25	16.55	0.00	150.0	± 9.6 %
		Y	4.68	66.67	16.22		150.0	
		Z	4.76	66.95	16.48		150.0	
10198-CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.73	67.28	16.56	0.00	150.0	± 9.6 %
		Y	4.72	66.70	16.24		150.0	
		Z	4.79	66.97	16.49		150.0	
10219-CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.47	67.02	16.40	0.00	150.0	± 9.6 %
		Y	4.45	66.40	16.07		150.0	
		Z	4.52	66.69	16.34		150.0	
10220-CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.69	67.22	16.54	0.00	150.0	± 9.6 %
		Y	4.68	66.65	16.22		150.0	
		Z	4.75	66.93	16.48		150.0	
10221-CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.73	67.20	16.54	0.00	150.0	± 9.6 %
		Y	4.72	66.63	16.23		150.0	
		Z	4.79	66.90	16.48		150.0	
10222-CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.06	67.31	16.62	0.00	150.0	± 9.6 %
		Y	5.05	66.85	16.35		150.0	
		Z	5.12	67.12	16.59		150.0	

10223-CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.36	67.52	16.74	0.00	150.0	± 9.6 %
		Y	5.37	67.09	16.50		150.0	
		Z	5.44	67.35	16.73		150.0	
10224-CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	5.11	67.43	16.61	0.00	150.0	± 9.6 %
		Y	5.10	66.96	16.33		150.0	
		Z	5.16	67.22	16.57		150.0	
10225-CAB	UMTS-FDD (HSPA+)	X	2.84	66.92	15.85	0.00	150.0	± 9.6 %
		Y	2.74	65.72	15.18		150.0	
		Z	2.83	66.35	15.73		150.0	
10226-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	40.01	116.73	34.09	6.02	65.0	± 9.6 %
		Y	18.15	100.91	29.81		65.0	
		Z	13.80	96.00	27.96		65.0	
10227-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	33.98	111.47	31.92	6.02	65.0	± 9.6 %
		Y	16.25	97.33	28.09		65.0	
		Z	12.25	92.38	26.18		65.0	
10228-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	12.76	101.92	32.39	6.02	65.0	± 9.6 %
		Y	11.08	97.03	30.67		65.0	
		Z	8.72	92.35	28.82		65.0	
10229-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	34.89	114.03	33.28	6.02	65.0	± 9.6 %
		Y	16.78	99.31	29.23		65.0	
		Z	12.79	94.48	27.39		65.0	
10230-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	29.80	109.06	31.18	6.02	65.0	± 9.6 %
		Y	15.07	95.92	27.58		65.0	
		Z	11.39	91.05	25.67		65.0	
10231-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	11.93	100.43	31.84	6.02	65.0	± 9.6 %
		Y	10.46	95.77	30.17		65.0	
		Z	8.25	91.19	28.34		65.0	
10232-CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	34.85	114.02	33.28	6.02	65.0	± 9.6 %
		Y	16.75	99.30	29.23		65.0	
		Z	12.76	94.46	27.38		65.0	
10233-CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	29.71	109.03	31.18	6.02	65.0	± 9.6 %
		Y	15.04	95.90	27.57		65.0	
		Z	11.37	91.03	25.66		65.0	
10234-CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	11.28	99.11	31.30	6.02	65.0	± 9.6 %
		Y	9.96	94.62	29.67		65.0	
		Z	7.88	90.12	27.85		65.0	
10235-CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	35.01	114.12	33.31	6.02	65.0	± 9.6 %
		Y	16.79	99.35	29.25		65.0	
		Z	12.78	94.51	27.39		65.0	
10236-CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	30.34	109.34	31.25	6.02	65.0	± 9.6 %
		Y	15.23	96.08	27.62		65.0	
		Z	11.50	91.19	25.70		65.0	
10237-CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	11.97	100.55	31.88	6.02	65.0	± 9.6 %
		Y	10.49	95.87	30.21		65.0	
		Z	8.27	91.27	28.37		65.0	
10238-CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	34.79	114.01	33.27	6.02	65.0	± 9.6 %
		Y	16.72	99.28	29.22		65.0	
		Z	12.73	94.44	27.37		65.0	

10239-CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	29.60	108.99	31.17	6.02	65.0	± 9.6 %
		Y	15.00	95.87	27.57		65.0	
		Z	11.33	91.00	25.65		65.0	
10240-CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	11.93	100.49	31.86	6.02	65.0	± 9.6 %
		Y	10.45	95.81	30.19		65.0	
		Z	8.24	91.21	28.35		65.0	
10241-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	8.35	82.82	26.15	6.98	65.0	± 9.6 %
		Y	7.85	80.00	25.06		65.0	
		Z	7.12	78.08	24.14		65.0	
10242-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	7.34	80.10	24.97	6.98	65.0	± 9.6 %
		Y	7.01	77.55	23.95		65.0	
		Z	6.48	76.07	23.18		65.0	
10243-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	5.72	75.88	24.13	6.98	65.0	± 9.6 %
		Y	5.69	74.41	23.47		65.0	
		Z	5.34	73.16	22.77		65.0	
10244-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	5.95	76.49	18.56	3.98	65.0	± 9.6 %
		Y	6.01	76.53	19.26		65.0	
		Z	5.17	74.41	18.34		65.0	
10245-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	5.70	75.57	18.13	3.98	65.0	± 9.6 %
		Y	5.87	75.85	18.93		65.0	
		Z	5.09	73.88	18.06		65.0	
10246-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	6.32	81.66	21.02	3.98	65.0	± 9.6 %
		Y	5.36	78.51	20.04		65.0	
		Z	4.95	77.75	19.89		65.0	
10247-CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	4.91	74.53	18.92	3.98	65.0	± 9.6 %
		Y	4.72	73.31	18.63		65.0	
		Z	4.45	72.67	18.48		65.0	
10248-CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	4.84	73.73	18.55	3.98	65.0	± 9.6 %
		Y	4.73	72.75	18.36		65.0	
		Z	4.48	72.15	18.22		65.0	
10249-CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	7.86	85.71	23.56	3.98	65.0	± 9.6 %
		Y	6.42	81.53	22.10		65.0	
		Z	5.85	80.41	21.79		65.0	
10250-CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	5.72	76.77	21.62	3.98	65.0	± 9.6 %
		Y	5.50	75.36	21.09		65.0	
		Z	5.18	74.52	20.81		65.0	
10251-CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	5.38	74.33	20.19	3.98	65.0	± 9.6 %
		Y	5.26	73.19	19.77		65.0	
		Z	4.98	72.41	19.49		65.0	
10252-CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	7.31	83.67	23.90	3.98	65.0	± 9.6 %
		Y	6.42	80.44	22.59		65.0	
		Z	5.91	79.28	22.20		65.0	
10253-CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	5.42	73.21	20.08	3.98	65.0	± 9.6 %
		Y	5.32	72.22	19.66		65.0	
		Z	5.05	71.46	19.36		65.0	
10254-CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	5.76	74.13	20.80	3.98	65.0	± 9.6 %
		Y	5.65	73.11	20.38		65.0	
		Z	5.37	72.34	20.09		65.0	

10255-CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	6.31	78.67	22.21	3.98	65.0	± 9.6 %
		Y	5.88	76.59	21.28		65.0	
		Z	5.50	75.63	20.92		65.0	
10256-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	4.17	70.99	15.08	3.98	65.0	± 9.6 %
		Y	4.68	72.52	16.53		65.0	
		Z	4.05	70.72	15.69		65.0	
10257-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	3.99	70.02	14.54	3.98	65.0	± 9.6 %
		Y	4.53	71.65	16.05		65.0	
		Z	3.98	70.06	15.30		65.0	
10258-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	4.17	74.74	17.34	3.98	65.0	± 9.6 %
		Y	3.99	73.66	17.24		65.0	
		Z	3.75	73.28	17.24		65.0	
10259-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	5.25	75.45	19.93	3.98	65.0	± 9.6 %
		Y	5.04	74.09	19.53		65.0	
		Z	4.75	73.36	19.32		65.0	
10260-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	5.25	75.04	19.76	3.98	65.0	± 9.6 %
		Y	5.07	73.83	19.42		65.0	
		Z	4.79	73.13	19.23		65.0	
10261-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	7.02	83.49	23.23	3.98	65.0	± 9.6 %
		Y	6.03	80.05	21.95		65.0	
		Z	5.52	78.93	21.61		65.0	
10262-CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	5.71	76.71	21.58	3.98	65.0	± 9.6 %
		Y	5.49	75.31	21.04		65.0	
		Z	5.17	74.48	20.77		65.0	
10263-CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	5.37	74.30	20.18	3.98	65.0	± 9.6 %
		Y	5.25	73.17	19.76		65.0	
		Z	4.97	72.39	19.48		65.0	
10264-CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	7.22	83.42	23.78	3.98	65.0	± 9.6 %
		Y	6.36	80.23	22.49		65.0	
		Z	5.85	79.08	22.10		65.0	
10265-CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	5.54	73.78	20.36	3.98	65.0	± 9.6 %
		Y	5.45	72.82	19.93		65.0	
		Z	5.18	72.08	19.62		65.0	
10266-CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	5.91	74.76	21.15	3.98	65.0	± 9.6 %
		Y	5.80	73.74	20.71		65.0	
		Z	5.51	72.97	20.41		65.0	
10267-CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	6.72	79.57	22.34	3.98	65.0	± 9.6 %
		Y	6.21	77.33	21.33		65.0	
		Z	5.81	76.41	20.98		65.0	
10268-CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	6.12	73.48	20.62	3.98	65.0	± 9.6 %
		Y	6.06	72.68	20.24		65.0	
		Z	5.79	71.98	19.95		65.0	
10269-CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	6.09	73.02	20.46	3.98	65.0	± 9.6 %
		Y	6.03	72.24	20.11		65.0	
		Z	5.76	71.54	19.81		65.0	
10270-CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	6.34	76.06	21.04	3.98	65.0	± 9.6 %
		Y	6.08	74.61	20.35		65.0	
		Z	5.76	73.86	20.04		65.0	

10274-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.66	67.57	15.91	0.00	150.0	± 9.6 %
		Y	2.50	65.96	14.99		150.0	
		Z	2.60	66.71	15.61		150.0	
10275-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.84	70.99	17.29	0.00	150.0	± 9.6 %
		Y	1.51	67.19	14.97		150.0	
		Z	1.71	69.51	16.45		150.0	
10277-CAA	PHS (QPSK)	X	1.87	60.83	6.38	9.03	50.0	± 9.6 %
		Y	2.14	61.49	7.23		50.0	
		Z	2.09	61.24	7.00		50.0	
10278-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	4.51	72.29	15.08	9.03	50.0	± 9.6 %
		Y	4.92	73.27	16.01		50.0	
		Z	4.51	71.94	15.29		50.0	
10279-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	4.67	72.70	15.31	9.03	50.0	± 9.6 %
		Y	5.09	73.65	16.22		50.0	
		Z	4.68	72.33	15.51		50.0	
10290-AAB	CDMA2000, RC1, SO55, Full Rate	X	2.16	74.98	16.58	0.00	150.0	± 9.6 %
		Y	1.28	66.95	12.79		150.0	
		Z	1.74	71.36	15.26		150.0	
10291-AAB	CDMA2000, RC3, SO55, Full Rate	X	1.17	71.53	15.12	0.00	150.0	± 9.6 %
		Y	0.69	64.03	10.95		150.0	
		Z	0.91	67.77	13.37		150.0	
10292-AAB	CDMA2000, RC3, SO32, Full Rate	X	4.42	90.78	22.42	0.00	150.0	± 9.6 %
		Y	0.85	67.35	12.97		150.0	
		Z	1.67	76.97	17.67		150.0	
10293-AAB	CDMA2000, RC3, SO3, Full Rate	X	100.00	136.59	34.47	0.00	150.0	± 9.6 %
		Y	1.33	73.34	16.12		150.0	
		Z	8.78	100.96	25.89		150.0	
10295-AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	11.43	89.42	25.13	9.03	50.0	± 9.6 %
		Y	9.12	84.99	23.86		50.0	
		Z	8.14	82.83	22.95		50.0	
10297-AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.97	71.63	17.74	0.00	150.0	± 9.6 %
		Y	2.68	69.19	16.24		150.0	
		Z	2.93	70.87	17.24		150.0	
10298-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.89	71.32	15.81	0.00	150.0	± 9.6 %
		Y	1.46	66.65	13.41		150.0	
		Z	1.78	69.74	15.31		150.0	
10299-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	3.28	72.61	15.28	0.00	150.0	± 9.6 %
		Y	2.80	70.26	14.85		150.0	
		Z	2.86	70.82	15.21		150.0	
10300-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	2.02	65.69	11.41	0.00	150.0	± 9.6 %
		Y	2.07	65.40	11.81		150.0	
		Z	2.07	65.58	12.00		150.0	
10301-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.72	65.85	17.74	4.17	50.0	± 9.6 %
		Y	4.78	65.42	17.53		50.0	
		Z	4.74	65.16	17.51		50.0	
10302-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.13	66.14	18.27	4.96	50.0	± 9.6 %
		Y	5.22	65.77	18.07		50.0	
		Z	5.18	65.64	18.13		50.0	

10303-AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	4.87	65.75	18.09	4.96	50.0	± 9.6 %
		Y	4.97	65.43	17.92		50.0	
		Z	4.93	65.28	17.98		50.0	
10304-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.70	65.69	17.62	4.17	50.0	± 9.6 %
		Y	4.76	65.25	17.39		50.0	
		Z	4.74	65.17	17.49		50.0	
10305-AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.27	67.35	19.54	6.02	35.0	± 9.6 %
		Y	4.46	67.57	19.71		35.0	
		Z	4.33	66.90	19.56		35.0	
10306-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.60	66.41	19.14	6.02	35.0	± 9.6 %
		Y	4.75	66.45	19.22		35.0	
		Z	4.67	65.98	19.11		35.0	
10307-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.49	66.55	19.10	6.02	35.0	± 9.6 %
		Y	4.66	66.69	19.22		35.0	
		Z	4.58	66.22	19.12		35.0	
10308-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	4.47	66.75	19.25	6.02	35.0	± 9.6 %
		Y	4.63	66.87	19.34		35.0	
		Z	4.54	66.36	19.23		35.0	
10309-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	4.65	66.61	19.28	6.02	35.0	± 9.6 %
		Y	4.82	66.71	19.38		35.0	
		Z	4.74	66.25	19.28		35.0	
10310-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	4.54	66.47	19.12	6.02	35.0	± 9.6 %
		Y	4.70	66.52	19.20		35.0	
		Z	4.62	66.04	19.09		35.0	
10311-AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.35	70.71	17.27	0.00	150.0	± 9.6 %
		Y	3.03	68.44	15.91		150.0	
		Z	3.29	69.99	16.82		150.0	
10313-AAA	iDEN 1:3	X	4.14	76.66	17.56	6.99	70.0	± 9.6 %
		Y	2.85	70.75	14.87		70.0	
		Z	2.37	69.11	14.12		70.0	
10314-AAA	iDEN 1:6	X	8.58	90.79	25.43	10.00	30.0	± 9.6 %
		Y	4.78	79.72	21.17		30.0	
		Z	4.55	79.07	20.77		30.0	
10315-AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.10	65.06	16.35	0.17	150.0	± 9.6 %
		Y	0.98	63.13	14.77		150.0	
		Z	1.01	64.16	15.80		150.0	
10316-AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	X	4.56	66.93	16.52	0.17	150.0	± 9.6 %
		Y	4.55	66.38	16.23		150.0	
		Z	4.60	66.58	16.44		150.0	
10317-AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.56	66.93	16.52	0.17	150.0	± 9.6 %
		Y	4.55	66.38	16.23		150.0	
		Z	4.60	66.58	16.44		150.0	
10400-AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.67	67.29	16.53	0.00	150.0	± 9.6 %
		Y	4.67	66.71	16.20		150.0	
		Z	4.74	66.99	16.46		150.0	
10401-AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.37	67.39	16.65	0.00	150.0	± 9.6 %
		Y	5.39	66.99	16.43		150.0	
		Z	5.43	67.15	16.60		150.0	

10402-AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.62	67.65	16.64	0.00	150.0	± 9.6 %
		Y	5.63	67.27	16.42		150.0	
		Z	5.70	67.53	16.64		150.0	
10403-AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	2.16	74.98	16.58	0.00	115.0	± 9.6 %
		Y	1.28	66.95	12.79		115.0	
		Z	1.74	71.36	15.26		115.0	
10404-AAB	CDMA2000 (1xEV-DO, Rev. A)	X	2.16	74.98	16.58	0.00	115.0	± 9.6 %
		Y	1.28	66.95	12.79		115.0	
		Z	1.74	71.36	15.26		115.0	
10406-AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	119.17	29.16	0.00	100.0	± 9.6 %
		Y	47.04	112.86	29.01		100.0	
		Z	100.00	124.79	31.86		100.0	
10410-AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	100.00	123.22	30.54	3.23	80.0	± 9.6 %
		Y	100.00	123.25	30.93		80.0	
		Z	100.00	121.48	29.86		80.0	
10415-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.03	64.28	15.82	0.00	150.0	± 9.6 %
		Y	0.91	62.36	14.20		150.0	
		Z	0.95	63.47	15.29		150.0	
10416-AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	X	4.52	66.97	16.49	0.00	150.0	± 9.6 %
		Y	4.49	66.36	16.15		150.0	
		Z	4.56	66.63	16.41		150.0	
10417-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.52	66.97	16.49	0.00	150.0	± 9.6 %
		Y	4.49	66.36	16.15		150.0	
		Z	4.56	66.63	16.41		150.0	
10418-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)	X	4.51	67.16	16.52	0.00	150.0	± 9.6 %
		Y	4.48	66.50	16.16		150.0	
		Z	4.55	66.78	16.42		150.0	
10419-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)	X	4.53	67.09	16.52	0.00	150.0	± 9.6 %
		Y	4.50	66.46	16.17		150.0	
		Z	4.57	66.73	16.43		150.0	
10422-AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.64	67.06	16.52	0.00	150.0	± 9.6 %
		Y	4.63	66.47	16.19		150.0	
		Z	4.69	66.73	16.44		150.0	
10423-AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.80	67.37	16.62	0.00	150.0	± 9.6 %
		Y	4.80	66.81	16.31		150.0	
		Z	4.87	67.08	16.56		150.0	
10424-AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.73	67.33	16.60	0.00	150.0	± 9.6 %
		Y	4.72	66.75	16.28		150.0	
		Z	4.79	67.03	16.53		150.0	
10425-AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.32	67.53	16.73	0.00	150.0	± 9.6 %
		Y	5.35	67.19	16.53		150.0	
		Z	5.41	67.42	16.74		150.0	
10426-AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.34	67.60	16.75	0.00	150.0	± 9.6 %
		Y	5.35	67.21	16.53		150.0	
		Z	5.42	67.44	16.74		150.0	

10427-AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.34	67.55	16.73	0.00	150.0	± 9.6 %
		Y	5.36	67.16	16.50		150.0	
		Z	5.42	67.39	16.71		150.0	
10430-AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.45	72.34	18.98	0.00	150.0	± 9.6 %
		Y	4.23	70.61	18.19		150.0	
		Z	4.46	71.63	18.92		150.0	
10431-AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.21	67.67	16.54	0.00	150.0	± 9.6 %
		Y	4.18	66.90	16.13		150.0	
		Z	4.27	67.27	16.47		150.0	
10432-AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.50	67.44	16.58	0.00	150.0	± 9.6 %
		Y	4.48	66.79	16.22		150.0	
		Z	4.56	67.10	16.50		150.0	
10433-AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.74	67.37	16.62	0.00	150.0	± 9.6 %
		Y	4.73	66.79	16.30		150.0	
		Z	4.81	67.07	16.56		150.0	
10434-AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.67	73.61	19.08	0.00	150.0	± 9.6 %
		Y	4.33	71.42	18.13		150.0	
		Z	4.63	72.69	18.98		150.0	
10435-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	122.96	30.42	3.23	80.0	± 9.6 %
		Y	100.00	123.03	30.82		80.0	
		Z	100.00	121.24	29.74		80.0	
10447-AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.53	67.93	15.94	0.00	150.0	± 9.6 %
		Y	3.46	66.82	15.40		150.0	
		Z	3.58	67.41	15.91		150.0	
10448-AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.05	67.46	16.42	0.00	150.0	± 9.6 %
		Y	4.01	66.66	15.98		150.0	
		Z	4.10	67.04	16.33		150.0	
10449-AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.32	67.29	16.49	0.00	150.0	± 9.6 %
		Y	4.29	66.60	16.11		150.0	
		Z	4.36	66.93	16.41		150.0	
10450-AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.51	67.16	16.49	0.00	150.0	± 9.6 %
		Y	4.48	66.53	16.14		150.0	
		Z	4.55	66.83	16.41		150.0	
10451-AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.43	68.17	15.54	0.00	150.0	± 9.6 %
		Y	3.35	66.96	14.99		150.0	
		Z	3.50	67.67	15.58		150.0	
10456-AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.19	68.04	16.84	0.00	150.0	± 9.6 %
		Y	6.21	67.72	16.67		150.0	
		Z	6.27	67.93	16.85		150.0	
10457-AAA	UMTS-FDD (DC-HSDPA)	X	3.78	65.60	16.21	0.00	150.0	± 9.6 %
		Y	3.73	64.97	15.86		150.0	
		Z	3.77	65.24	16.13		150.0	
10458-AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	4.28	72.82	18.40	0.00	150.0	± 9.6 %
		Y	3.93	70.47	17.43		150.0	
		Z	4.19	71.65	18.27		150.0	
10459-AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	5.16	69.26	18.59	0.00	150.0	± 9.6 %
		Y	5.12	68.34	18.30		150.0	
		Z	5.26	68.82	18.73		150.0	

10460-AAA	UMTS-FDD (WCDMA, AMR)	X	1.22	75.04	19.84	0.00	150.0	± 9.6 %
		Y	0.79	67.36	15.18		150.0	
		Z	1.04	72.67	18.32		150.0	
10461-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	129.47	33.43	3.29	80.0	± 9.6 %
		Y	100.00	127.28	32.86		80.0	
		Z	100.00	125.03	31.59		80.0	
10462-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.27	72.28	13.39	3.23	80.0	± 9.6 %
		Y	4.56	75.48	15.26		80.0	
		Z	1.47	64.20	10.41		80.0	
10463-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.15	62.24	8.85	3.23	80.0	± 9.6 %
		Y	1.75	65.10	10.83		80.0	
		Z	1.05	60.61	8.20		80.0	
10464-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.26	31.77	3.23	80.0	± 9.6 %
		Y	100.00	124.34	31.34		80.0	
		Z	100.00	121.62	29.86		80.0	
10465-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.21	68.61	12.00	3.23	80.0	± 9.6 %
		Y	3.08	71.39	13.77		80.0	
		Z	1.32	63.14	9.86		80.0	
10466-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.07	61.51	8.46	3.23	80.0	± 9.6 %
		Y	1.57	63.98	10.28		80.0	
		Z	1.00	60.20	7.94		80.0	
10467-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.63	31.94	3.23	80.0	± 9.6 %
		Y	100.00	124.65	31.47		80.0	
		Z	100.00	121.95	30.00		80.0	
10468-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.42	69.48	12.34	3.23	80.0	± 9.6 %
		Y	3.36	72.31	14.12		80.0	
		Z	1.35	63.38	9.99		80.0	
10469-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.07	61.53	8.46	3.23	80.0	± 9.6 %
		Y	1.57	64.00	10.29		80.0	
		Z	1.00	60.20	7.94		80.0	
10470-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.66	31.94	3.23	80.0	± 9.6 %
		Y	100.00	124.68	31.48		80.0	
		Z	100.00	121.97	30.00		80.0	
10471-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.38	69.29	12.26	3.23	80.0	± 9.6 %
		Y	3.31	72.16	14.05		80.0	
		Z	1.34	63.31	9.94		80.0	
10472-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.06	61.47	8.42	3.23	80.0	± 9.6 %
		Y	1.55	63.94	10.24		80.0	
		Z	0.99	60.16	7.90		80.0	
10473-AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.62	31.92	3.23	80.0	± 9.6 %
		Y	100.00	124.64	31.46		80.0	
		Z	100.00	121.92	29.98		80.0	
10474-AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.35	69.21	12.23	3.23	80.0	± 9.6 %
		Y	3.28	72.07	14.02		80.0	
		Z	1.33	63.28	9.92		80.0	
10475-AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.05	61.45	8.41	3.23	80.0	± 9.6 %
		Y	1.55	63.91	10.23		80.0	
		Z	0.99	60.15	7.90		80.0	

10477-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.18	68.48	11.93	3.23	80.0	± 9.6 %
		Y	3.05	71.31	13.72		80.0	
		Z	1.30	63.05	9.80		80.0	
10478-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.05	61.39	8.37	3.23	80.0	± 9.6 %
		Y	1.54	63.84	10.19		80.0	
		Z	0.99	60.11	7.87		80.0	
10479-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	22.66	104.04	28.31	3.23	80.0	± 9.6 %
		Y	10.52	91.75	25.16		80.0	
		Z	7.12	85.84	23.15		80.0	
10480-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	18.76	93.01	22.77	3.23	80.0	± 9.6 %
		Y	9.38	84.15	20.83		80.0	
		Z	6.29	78.88	18.94		80.0	
10481-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	10.50	84.61	19.86	3.23	80.0	± 9.6 %
		Y	7.10	79.67	18.96		80.0	
		Z	4.94	75.07	17.20		80.0	
10482-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.07	77.55	18.95	2.23	80.0	± 9.6 %
		Y	2.75	71.25	16.55		80.0	
		Z	2.95	72.71	17.37		80.0	
10483-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.36	76.63	17.79	2.23	80.0	± 9.6 %
		Y	5.22	76.19	18.27		80.0	
		Z	4.21	73.47	17.21		80.0	
10484-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.71	74.71	17.09	2.23	80.0	± 9.6 %
		Y	4.77	74.70	17.72		80.0	
		Z	3.96	72.36	16.79		80.0	
10485-AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.16	78.26	20.41	2.23	80.0	± 9.6 %
		Y	3.12	72.88	18.19		80.0	
		Z	3.23	73.87	18.78		80.0	
10486-AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.46	71.60	17.12	2.23	80.0	± 9.6 %
		Y	2.98	68.63	15.94		80.0	
		Z	3.03	69.17	16.37		80.0	
10487-AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.40	70.94	16.82	2.23	80.0	± 9.6 %
		Y	2.98	68.26	15.77		80.0	
		Z	3.03	68.76	16.19		80.0	
10488-AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.89	75.14	20.03	2.23	80.0	± 9.6 %
		Y	3.40	72.05	18.54		80.0	
		Z	3.45	72.57	18.88		80.0	
10489-AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.51	70.20	17.93	2.23	80.0	± 9.6 %
		Y	3.28	68.37	17.06		80.0	
		Z	3.27	68.52	17.26		80.0	
10490-AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.58	69.92	17.81	2.23	80.0	± 9.6 %
		Y	3.38	68.21	17.01		80.0	
		Z	3.36	68.32	17.19		80.0	
10491-AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.92	72.56	19.10	2.23	80.0	± 9.6 %
		Y	3.62	70.46	18.01		80.0	
		Z	3.62	70.74	18.23		80.0	
10492-AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.77	68.93	17.69	2.23	80.0	± 9.6 %
		Y	3.64	67.67	17.05		80.0	
		Z	3.60	67.70	17.16		80.0	

10493-AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.82	68.75	17.61	2.23	80.0	± 9.6 %
		Y	3.71	67.55	17.01		80.0	
		Z	3.67	67.56	17.12		80.0	
10494-AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.37	74.54	19.74	2.23	80.0	± 9.6 %
		Y	3.94	72.05	18.49		80.0	
		Z	3.99	72.51	18.77		80.0	
10495-AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.81	69.34	17.91	2.23	80.0	± 9.6 %
		Y	3.67	68.08	17.25		80.0	
		Z	3.64	68.16	17.38		80.0	
10496-AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.87	68.98	17.78	2.23	80.0	± 9.6 %
		Y	3.75	67.81	17.17		80.0	
		Z	3.72	67.85	17.28		80.0	
10497-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.51	70.53	15.01	2.23	80.0	± 9.6 %
		Y	1.89	66.41	13.46		80.0	
		Z	2.04	67.84	14.35		80.0	
10498-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.46	61.52	9.68	2.23	80.0	± 9.6 %
		Y	1.55	61.46	10.01		80.0	
		Z	1.62	62.12	10.57		80.0	
10499-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.40	60.84	9.17	2.23	80.0	± 9.6 %
		Y	1.52	61.02	9.63		80.0	
		Z	1.59	61.62	10.17		80.0	
10500-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.90	76.38	20.05	2.23	80.0	± 9.6 %
		Y	3.17	72.17	18.21		80.0	
		Z	3.23	72.85	18.65		80.0	
10501-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.50	71.10	17.46	2.23	80.0	± 9.6 %
		Y	3.12	68.58	16.40		80.0	
		Z	3.14	68.92	16.72		80.0	
10502-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.54	70.86	17.28	2.23	80.0	± 9.6 %
		Y	3.18	68.44	16.28		80.0	
		Z	3.20	68.76	16.60		80.0	
10503-AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.83	74.89	19.91	2.23	80.0	± 9.6 %
		Y	3.36	71.83	18.43		80.0	
		Z	3.40	72.34	18.77		80.0	
10504-AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.49	70.09	17.87	2.23	80.0	± 9.6 %
		Y	3.27	68.27	17.00		80.0	
		Z	3.25	68.42	17.20		80.0	
10505-AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.56	69.81	17.75	2.23	80.0	± 9.6 %
		Y	3.36	68.11	16.95		80.0	
		Z	3.34	68.22	17.13		80.0	
10506-AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.33	74.37	19.66	2.23	80.0	± 9.6 %
		Y	3.91	71.89	18.41		80.0	
		Z	3.95	72.35	18.69		80.0	
10507-AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.79	69.27	17.87	2.23	80.0	± 9.6 %
		Y	3.66	68.02	17.21		80.0	
		Z	3.63	68.09	17.34		80.0	

10508-AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.86	68.91	17.74	2.23	80.0	± 9.6 %
		Y	3.74	67.74	17.13		80.0	
		Z	3.71	67.78	17.24		80.0	
10509-AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.53	72.39	18.83	2.23	80.0	± 9.6 %
		Y	4.22	70.56	17.87		80.0	
		Z	4.23	70.82	18.05		80.0	
10510-AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.24	68.74	17.72	2.23	80.0	± 9.6 %
		Y	4.14	67.79	17.20		80.0	
		Z	4.11	67.81	17.28		80.0	
10511-AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.28	68.44	17.62	2.23	80.0	± 9.6 %
		Y	4.19	67.53	17.14		80.0	
		Z	4.15	67.52	17.20		80.0	
10512-AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.88	74.48	19.52	2.23	80.0	± 9.6 %
		Y	4.42	72.17	18.36		80.0	
		Z	4.47	72.62	18.62		80.0	
10513-AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.13	69.07	17.87	2.23	80.0	± 9.6 %
		Y	4.03	68.07	17.31		80.0	
		Z	4.00	68.14	17.42		80.0	
10514-AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.14	68.57	17.70	2.23	80.0	± 9.6 %
		Y	4.05	67.64	17.19		80.0	
		Z	4.01	67.67	17.27		80.0	
10515-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.99	64.60	15.97	0.00	150.0	± 9.6 %
		Y	0.87	62.53	14.23		150.0	
		Z	0.91	63.76	15.41		150.0	
10516-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	1.57	90.52	26.30	0.00	150.0	± 9.6 %
		Y	0.52	70.36	15.95		150.0	
		Z	1.41	88.12	24.00		150.0	
10517-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.90	68.15	17.53	0.00	150.0	± 9.6 %
		Y	0.72	64.40	14.65		150.0	
		Z	0.81	67.00	16.64		150.0	
10518-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.51	67.06	16.47	0.00	150.0	± 9.6 %
		Y	4.49	66.43	16.13		150.0	
		Z	4.55	66.71	16.39		150.0	
10519-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.69	67.26	16.57	0.00	150.0	± 9.6 %
		Y	4.68	66.69	16.26		150.0	
		Z	4.75	66.97	16.52		150.0	
10520-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.54	67.24	16.51	0.00	150.0	± 9.6 %
		Y	4.53	66.65	16.17		150.0	
		Z	4.61	66.95	16.45		150.0	
10521-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.48	67.24	16.50	0.00	150.0	± 9.6 %
		Y	4.46	66.64	16.15		150.0	
		Z	4.54	66.96	16.44		150.0	
10522-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.54	67.36	16.60	0.00	150.0	± 9.6 %
		Y	4.52	66.71	16.23		150.0	
		Z	4.59	67.00	16.50		150.0	

10523-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.43	67.25	16.46	0.00	150.0	± 9.6 %
		Y	4.40	66.56	16.07		150.0	
		Z	4.47	66.87	16.35		150.0	
10524-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.48	67.27	16.56	0.00	150.0	± 9.6 %
		Y	4.47	66.64	16.20		150.0	
		Z	4.54	66.94	16.48		150.0	
10525-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.48	66.34	16.17	0.00	150.0	± 9.6 %
		Y	4.45	65.66	15.79		150.0	
		Z	4.52	65.96	16.07		150.0	
10526-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.64	66.69	16.30	0.00	150.0	± 9.6 %
		Y	4.62	66.04	15.94		150.0	
		Z	4.70	66.36	16.21		150.0	
10527-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.57	66.67	16.25	0.00	150.0	± 9.6 %
		Y	4.54	66.00	15.88		150.0	
		Z	4.62	66.33	16.16		150.0	
10528-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.58	66.68	16.28	0.00	150.0	± 9.6 %
		Y	4.56	66.02	15.91		150.0	
		Z	4.64	66.35	16.19		150.0	
10529-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.58	66.68	16.28	0.00	150.0	± 9.6 %
		Y	4.56	66.02	15.91		150.0	
		Z	4.64	66.35	16.19		150.0	
10531-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.57	66.78	16.29	0.00	150.0	± 9.6 %
		Y	4.55	66.14	15.93		150.0	
		Z	4.64	66.48	16.22		150.0	
10532-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.44	66.64	16.24	0.00	150.0	± 9.6 %
		Y	4.41	65.98	15.86		150.0	
		Z	4.49	66.34	16.16		150.0	
10533-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.60	66.74	16.28	0.00	150.0	± 9.6 %
		Y	4.57	66.06	15.90		150.0	
		Z	4.65	66.38	16.18		150.0	
10534-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.11	66.67	16.28	0.00	150.0	± 9.6 %
		Y	5.10	66.18	16.00		150.0	
		Z	5.17	66.45	16.24		150.0	
10535-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.18	66.86	16.37	0.00	150.0	± 9.6 %
		Y	5.17	66.36	16.08		150.0	
		Z	5.24	66.62	16.31		150.0	
10536-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.05	66.83	16.34	0.00	150.0	± 9.6 %
		Y	5.03	66.29	16.03		150.0	
		Z	5.11	66.58	16.28		150.0	
10537-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.11	66.78	16.31	0.00	150.0	± 9.6 %
		Y	5.10	66.27	16.02		150.0	
		Z	5.17	66.56	16.26		150.0	
10538-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.19	66.77	16.35	0.00	150.0	± 9.6 %
		Y	5.19	66.31	16.08		150.0	
		Z	5.27	66.59	16.32		150.0	
10540-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.12	66.79	16.37	0.00	150.0	± 9.6 %
		Y	5.12	66.32	16.10		150.0	
		Z	5.19	66.59	16.34		150.0	

10541-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.10	66.67	16.30	0.00	150.0	± 9.6 %
		Y	5.09	66.17	16.02		150.0	
		Z	5.16	66.44	16.26		150.0	
10542-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.25	66.73	16.34	0.00	150.0	± 9.6 %
		Y	5.25	66.25	16.08		150.0	
		Z	5.32	66.51	16.31		150.0	
10543-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.32	66.74	16.37	0.00	150.0	± 9.6 %
		Y	5.33	66.31	16.13		150.0	
		Z	5.40	66.56	16.35		150.0	
10544-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.43	66.75	16.26	0.00	150.0	± 9.6 %
		Y	5.40	66.27	15.99		150.0	
		Z	5.46	66.52	16.21		150.0	
10545-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.62	67.17	16.42	0.00	150.0	± 9.6 %
		Y	5.62	66.75	16.18		150.0	
		Z	5.69	67.01	16.39		150.0	
10546-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.49	66.94	16.32	0.00	150.0	± 9.6 %
		Y	5.48	66.52	16.08		150.0	
		Z	5.55	66.80	16.30		150.0	
10547-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.56	66.99	16.33	0.00	150.0	± 9.6 %
		Y	5.56	66.58	16.10		150.0	
		Z	5.64	66.88	16.33		150.0	
10548-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.78	67.85	16.73	0.00	150.0	± 9.6 %
		Y	5.92	67.82	16.68		150.0	
		Z	6.02	68.18	16.94		150.0	
10550-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.52	66.99	16.35	0.00	150.0	± 9.6 %
		Y	5.51	66.53	16.09		150.0	
		Z	5.57	66.78	16.30		150.0	
10551-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.52	67.01	16.32	0.00	150.0	± 9.6 %
		Y	5.51	66.55	16.06		150.0	
		Z	5.58	66.82	16.28		150.0	
10552-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.44	66.84	16.24	0.00	150.0	± 9.6 %
		Y	5.41	66.33	15.96		150.0	
		Z	5.48	66.58	16.18		150.0	
10553-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.52	66.84	16.27	0.00	150.0	± 9.6 %
		Y	5.50	66.37	16.01		150.0	
		Z	5.57	66.63	16.23		150.0	
10554-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.84	67.09	16.33	0.00	150.0	± 9.6 %
		Y	5.82	66.65	16.09		150.0	
		Z	5.88	66.90	16.29		150.0	
10555-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.96	67.38	16.45	0.00	150.0	± 9.6 %
		Y	5.96	66.99	16.23		150.0	
		Z	6.02	67.24	16.44		150.0	
10556-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	5.99	67.44	16.47	0.00	150.0	± 9.6 %
		Y	5.98	67.02	16.24		150.0	
		Z	6.04	67.27	16.45		150.0	
10557-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.95	67.33	16.43	0.00	150.0	± 9.6 %
		Y	5.94	66.93	16.22		150.0	
		Z	6.01	67.18	16.43		150.0	

10558-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	5.99	67.49	16.53	0.00	150.0	± 9.6 %
		Y	6.00	67.11	16.32		150.0	
		Z	6.07	67.38	16.54		150.0	
10560-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	5.99	67.33	16.49	0.00	150.0	± 9.6 %
		Y	5.98	66.93	16.27		150.0	
		Z	6.05	67.18	16.48		150.0	
10561-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.91	67.31	16.52	0.00	150.0	± 9.6 %
		Y	5.91	66.92	16.30		150.0	
		Z	5.97	67.17	16.51		150.0	
10562-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.02	67.64	16.68	0.00	150.0	± 9.6 %
		Y	6.06	67.37	16.53		150.0	
		Z	6.14	67.67	16.76		150.0	
10563-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.14	67.63	16.63	0.00	150.0	± 9.6 %
		Y	6.40	67.99	16.79		150.0	
		Z	6.54	68.40	17.07		150.0	
10564-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	X	4.83	67.06	16.58	0.46	150.0	± 9.6 %
		Y	4.81	66.51	16.28		150.0	
		Z	4.87	66.74	16.51		150.0	
10565-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	X	5.05	67.50	16.90	0.46	150.0	± 9.6 %
		Y	5.06	66.99	16.63		150.0	
		Z	5.12	67.24	16.86		150.0	
10566-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	X	4.88	67.35	16.72	0.46	150.0	± 9.6 %
		Y	4.89	66.83	16.44		150.0	
		Z	4.95	67.08	16.66		150.0	
10567-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	X	4.92	67.77	17.10	0.46	150.0	± 9.6 %
		Y	4.91	67.24	16.80		150.0	
		Z	4.99	67.52	17.05		150.0	
10568-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	X	4.79	67.12	16.48	0.46	150.0	± 9.6 %
		Y	4.79	66.58	16.18		150.0	
		Z	4.85	66.80	16.39		150.0	
10569-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	X	4.89	67.91	17.19	0.46	150.0	± 9.6 %
		Y	4.86	67.30	16.85		150.0	
		Z	4.93	67.58	17.10		150.0	
10570-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	X	4.91	67.72	17.09	0.46	150.0	± 9.6 %
		Y	4.90	67.16	16.79		150.0	
		Z	4.97	67.43	17.03		150.0	
10571-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.16	65.48	16.57	0.46	130.0	± 9.6 %
		Y	1.04	63.66	15.10		130.0	
		Z	1.06	64.46	15.94		130.0	
10572-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.18	66.21	17.02	0.46	130.0	± 9.6 %
		Y	1.05	64.22	15.46		130.0	
		Z	1.08	65.16	16.38		130.0	
10573-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	43.96	143.35	39.94	0.46	130.0	± 9.6 %
		Y	2.00	86.04	22.34		130.0	
		Z	20.42	126.57	34.62		130.0	
10574-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.46	74.85	21.36	0.46	130.0	± 9.6 %
		Y	1.15	70.20	18.44		130.0	
		Z	1.31	73.62	20.61		130.0	

10575-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	X	4.60	66.82	16.61	0.46	130.0	± 9.6 %
		Y	4.60	66.29	16.34		130.0	
		Z	4.64	66.48	16.53		130.0	
10576-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	X	4.63	67.01	16.69	0.46	130.0	± 9.6 %
		Y	4.62	66.46	16.40		130.0	
		Z	4.67	66.66	16.60		130.0	
10577-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	X	4.82	67.28	16.84	0.46	130.0	± 9.6 %
		Y	4.84	66.79	16.59		130.0	
		Z	4.89	66.99	16.79		130.0	
10578-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	X	4.73	67.46	16.97	0.46	130.0	± 9.6 %
		Y	4.73	66.94	16.69		130.0	
		Z	4.79	67.18	16.91		130.0	
10579-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	X	4.48	66.68	16.24	0.46	130.0	± 9.6 %
		Y	4.49	66.20	15.97		130.0	
		Z	4.54	66.39	16.16		130.0	
10580-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	X	4.52	66.73	16.27	0.46	130.0	± 9.6 %
		Y	4.54	66.23	15.99		130.0	
		Z	4.59	66.40	16.17		130.0	
10581-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	X	4.63	67.52	16.92	0.46	130.0	± 9.6 %
		Y	4.62	66.97	16.62		130.0	
		Z	4.68	67.20	16.84		130.0	
10582-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	X	4.42	66.43	16.02	0.46	130.0	± 9.6 %
		Y	4.44	65.96	15.76		130.0	
		Z	4.49	66.14	15.94		130.0	
10583-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.60	66.82	16.61	0.46	130.0	± 9.6 %
		Y	4.60	66.29	16.34		130.0	
		Z	4.64	66.48	16.53		130.0	
10584-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.63	67.01	16.69	0.46	130.0	± 9.6 %
		Y	4.62	66.46	16.40		130.0	
		Z	4.67	66.66	16.60		130.0	
10585-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.82	67.28	16.84	0.46	130.0	± 9.6 %
		Y	4.84	66.79	16.59		130.0	
		Z	4.89	66.99	16.79		130.0	
10586-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.73	67.46	16.97	0.46	130.0	± 9.6 %
		Y	4.73	66.94	16.69		130.0	
		Z	4.79	67.18	16.91		130.0	
10587-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.48	66.68	16.24	0.46	130.0	± 9.6 %
		Y	4.49	66.20	15.97		130.0	
		Z	4.54	66.39	16.16		130.0	
10588-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.52	66.73	16.27	0.46	130.0	± 9.6 %
		Y	4.54	66.23	15.99		130.0	
		Z	4.59	66.40	16.17		130.0	
10589-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.63	67.52	16.92	0.46	130.0	± 9.6 %
		Y	4.62	66.97	16.62		130.0	
		Z	4.68	67.20	16.84		130.0	
10590-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.42	66.43	16.02	0.46	130.0	± 9.6 %
		Y	4.44	65.96	15.76		130.0	
		Z	4.49	66.14	15.94		130.0	

10591-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.75	66.87	16.70	0.46	130.0	± 9.6 %
		Y	4.75	66.37	16.45		130.0	
		Z	4.80	66.55	16.63		130.0	
10592-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.90	67.21	16.84	0.46	130.0	± 9.6 %
		Y	4.91	66.71	16.58		130.0	
		Z	4.96	66.91	16.77		130.0	
10593-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.82	67.11	16.71	0.46	130.0	± 9.6 %
		Y	4.83	66.62	16.46		130.0	
		Z	4.88	66.82	16.65		130.0	
10594-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.87	67.28	16.87	0.46	130.0	± 9.6 %
		Y	4.88	66.79	16.62		130.0	
		Z	4.94	66.99	16.81		130.0	
10595-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.84	67.24	16.77	0.46	130.0	± 9.6 %
		Y	4.85	66.74	16.51		130.0	
		Z	4.91	66.94	16.70		130.0	
10596-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.78	67.24	16.78	0.46	130.0	± 9.6 %
		Y	4.79	66.73	16.51		130.0	
		Z	4.84	66.94	16.70		130.0	
10597-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.73	67.13	16.65	0.46	130.0	± 9.6 %
		Y	4.74	66.64	16.39		130.0	
		Z	4.79	66.85	16.59		130.0	
10598-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.71	67.38	16.93	0.46	130.0	± 9.6 %
		Y	4.72	66.89	16.66		130.0	
		Z	4.78	67.13	16.88		130.0	
10599-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.41	67.32	16.87	0.46	130.0	± 9.6 %
		Y	5.44	66.98	16.69		130.0	
		Z	5.48	67.15	16.85		130.0	
10600-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.54	67.74	17.05	0.46	130.0	± 9.6 %
		Y	5.63	67.59	16.97		130.0	
		Z	5.69	67.81	17.15		130.0	
10601-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.43	67.51	16.95	0.46	130.0	± 9.6 %
		Y	5.49	67.23	16.80		130.0	
		Z	5.54	67.42	16.97		130.0	
10602-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.55	67.59	16.91	0.46	130.0	± 9.6 %
		Y	5.58	67.24	16.72		130.0	
		Z	5.62	67.39	16.87		130.0	
10603-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.61	67.86	17.17	0.46	130.0	± 9.6 %
		Y	5.65	67.53	17.00		130.0	
		Z	5.71	67.72	17.17		130.0	
10604-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.46	67.45	16.96	0.46	130.0	± 9.6 %
		Y	5.44	66.94	16.69		130.0	
		Z	5.48	67.11	16.85		130.0	
10605-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.54	67.66	17.06	0.46	130.0	± 9.6 %
		Y	5.58	67.37	16.91		130.0	
		Z	5.62	67.51	17.04		130.0	
10606-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.27	66.94	16.56	0.46	130.0	± 9.6 %
		Y	5.32	66.69	16.42		130.0	
		Z	5.35	66.82	16.56		130.0	

10607-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.60	66.25	16.36	0.46	130.0	± 9.6 %
		Y	4.59	65.67	16.06		130.0	
		Z	4.64	65.88	16.27		130.0	
10608-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.78	66.65	16.53	0.46	130.0	± 9.6 %
		Y	4.78	66.09	16.23		130.0	
		Z	4.84	66.31	16.44		130.0	
10609-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.67	66.49	16.36	0.46	130.0	± 9.6 %
		Y	4.67	65.93	16.06		130.0	
		Z	4.73	66.16	16.27		130.0	
10610-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.72	66.66	16.53	0.46	130.0	± 9.6 %
		Y	4.72	66.09	16.23		130.0	
		Z	4.78	66.33	16.45		130.0	
10611-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.64	66.46	16.37	0.46	130.0	± 9.6 %
		Y	4.63	65.90	16.07		130.0	
		Z	4.69	66.13	16.29		130.0	
10612-AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.64	66.62	16.43	0.46	130.0	± 9.6 %
		Y	4.64	66.05	16.11		130.0	
		Z	4.71	66.29	16.33		130.0	
10613-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.64	66.47	16.29	0.46	130.0	± 9.6 %
		Y	4.65	65.94	16.00		130.0	
		Z	4.71	66.18	16.21		130.0	
10614-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.60	66.69	16.55	0.46	130.0	± 9.6 %
		Y	4.59	66.13	16.24		130.0	
		Z	4.65	66.40	16.47		130.0	
10615-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.63	66.28	16.14	0.46	130.0	± 9.6 %
		Y	4.63	65.71	15.84		130.0	
		Z	4.69	65.92	16.04		130.0	
10616-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.25	66.64	16.52	0.46	130.0	± 9.6 %
		Y	5.26	66.22	16.29		130.0	
		Z	5.31	66.43	16.47		130.0	
10617-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.32	66.83	16.59	0.46	130.0	± 9.6 %
		Y	5.33	66.41	16.36		130.0	
		Z	5.38	66.58	16.52		130.0	
10618-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.21	66.86	16.62	0.46	130.0	± 9.6 %
		Y	5.21	66.40	16.37		130.0	
		Z	5.26	66.62	16.56		130.0	
10619-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.21	66.63	16.43	0.46	130.0	± 9.6 %
		Y	5.24	66.25	16.22		130.0	
		Z	5.29	66.44	16.40		130.0	
10620-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.30	66.65	16.49	0.46	130.0	± 9.6 %
		Y	5.33	66.28	16.29		130.0	
		Z	5.39	66.50	16.48		130.0	
10621-AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.31	66.81	16.69	0.46	130.0	± 9.6 %
		Y	5.31	66.38	16.46		130.0	
		Z	5.37	66.59	16.65		130.0	
10622-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.32	66.98	16.77	0.46	130.0	± 9.6 %
		Y	5.34	66.58	16.56		130.0	
		Z	5.39	66.79	16.74		130.0	

10623-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.20	66.48	16.39	0.46	130.0	± 9.6 %
		Y	5.20	66.06	16.17		130.0	
		Z	5.25	66.25	16.34		130.0	
10624-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.38	66.68	16.55	0.46	130.0	± 9.6 %
		Y	5.41	66.29	16.35		130.0	
		Z	5.46	66.49	16.52		130.0	
10625-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.69	67.49	17.01	0.46	130.0	± 9.6 %
		Y	5.85	67.51	17.01		130.0	
		Z	5.93	67.77	17.20		130.0	
10626-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.55	66.68	16.46	0.46	130.0	± 9.6 %
		Y	5.54	66.26	16.24		130.0	
		Z	5.58	66.45	16.40		130.0	
10627-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.79	67.25	16.70	0.46	130.0	± 9.6 %
		Y	5.82	66.93	16.53		130.0	
		Z	5.87	67.12	16.69		130.0	
10628-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.57	66.73	16.38	0.46	130.0	± 9.6 %
		Y	5.59	66.40	16.20		130.0	
		Z	5.64	66.59	16.36		130.0	
10629-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.65	66.79	16.40	0.46	130.0	± 9.6 %
		Y	5.69	66.52	16.25		130.0	
		Z	5.73	66.67	16.39		130.0	
10630-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.03	68.15	17.08	0.46	130.0	± 9.6 %
		Y	6.29	68.49	17.22		130.0	
		Z	6.38	68.79	17.43		130.0	
10631-AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.96	68.05	17.22	0.46	130.0	± 9.6 %
		Y	6.06	67.94	17.16		130.0	
		Z	6.15	68.25	17.38		130.0	
10632-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.76	67.33	16.89	0.46	130.0	± 9.6 %
		Y	5.78	66.97	16.69		130.0	
		Z	5.83	67.17	16.87		130.0	
10633-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.64	66.92	16.51	0.46	130.0	± 9.6 %
		Y	5.65	66.54	16.30		130.0	
		Z	5.71	66.76	16.48		130.0	
10634-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.62	66.95	16.58	0.46	130.0	± 9.6 %
		Y	5.63	66.56	16.37		130.0	
		Z	5.69	66.78	16.55		130.0	
10635-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.49	66.24	15.95	0.46	130.0	± 9.6 %
		Y	5.52	65.90	15.77		130.0	
		Z	5.56	66.07	15.92		130.0	
10636-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	5.97	67.02	16.52	0.46	130.0	± 9.6 %
		Y	5.97	66.67	16.35		130.0	
		Z	6.01	66.85	16.50		130.0	
10637-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.12	67.41	16.70	0.46	130.0	± 9.6 %
		Y	6.14	67.11	16.55		130.0	
		Z	6.19	67.29	16.70		130.0	
10638-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.12	67.38	16.66	0.46	130.0	± 9.6 %
		Y	6.14	67.07	16.51		130.0	
		Z	6.19	67.25	16.66		130.0	

10639-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.09	67.31	16.68	0.46	130.0	± 9.6 %
		Y	6.11	67.00	16.52		130.0	
		Z	6.16	67.20	16.68		130.0	
10640-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.09	67.31	16.62	0.46	130.0	± 9.6 %
		Y	6.13	67.04	16.47		130.0	
		Z	6.18	67.25	16.64		130.0	
10641-AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.15	67.24	16.60	0.46	130.0	± 9.6 %
		Y	6.15	66.89	16.42		130.0	
		Z	6.19	67.04	16.56		130.0	
10642-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.18	67.49	16.89	0.46	130.0	± 9.6 %
		Y	6.20	67.16	16.73		130.0	
		Z	6.25	67.36	16.89		130.0	
10643-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.02	67.17	16.63	0.46	130.0	± 9.6 %
		Y	6.04	66.85	16.47		130.0	
		Z	6.08	67.03	16.62		130.0	
10644-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.16	67.59	16.86	0.46	130.0	± 9.6 %
		Y	6.24	67.46	16.79		130.0	
		Z	6.31	67.70	16.97		130.0	
10645-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.33	67.74	16.89	0.46	130.0	± 9.6 %
		Y	6.77	68.58	17.30		130.0	
		Z	6.86	68.86	17.49		130.0	
10646-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	21.37	115.44	39.45	9.30	60.0	± 9.6 %
		Y	16.57	106.59	36.30		60.0	
		Z	12.85	100.08	33.69		60.0	
10647-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	17.53	111.56	38.45	9.30	60.0	± 9.6 %
		Y	14.74	104.61	35.82		60.0	
		Z	11.56	98.37	33.26		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	0.76	65.85	11.89	0.00	150.0	± 9.6 %
		Y	0.58	62.15	9.36		150.0	
		Z	0.68	64.26	11.01		150.0	
10652-AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.58	67.43	16.93	2.23	80.0	± 9.6 %
		Y	3.45	66.17	16.33		80.0	
		Z	3.45	66.30	16.52		80.0	
10653-AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.06	66.44	16.92	2.23	80.0	± 9.6 %
		Y	3.99	65.63	16.51		80.0	
		Z	3.96	65.65	16.63		80.0	
10654-AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.03	66.03	16.90	2.23	80.0	± 9.6 %
		Y	3.96	65.29	16.52		80.0	
		Z	3.93	65.30	16.62		80.0	
10655-AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.09	65.98	16.92	2.23	80.0	± 9.6 %
		Y	4.02	65.29	16.56		80.0	
		Z	3.99	65.31	16.66		80.0	
10658-AAA	Pulse Waveform (200Hz, 10%)	X	29.16	94.14	21.13	10.00	50.0	± 9.6 %
		Y	9.47	81.27	17.74		50.0	
		Z	5.06	73.00	14.38		50.0	
10659-AAA	Pulse Waveform (200Hz, 20%)	X	100.00	106.49	22.76	6.99	60.0	± 9.6 %
		Y	100.00	105.92	22.67		60.0	
		Z	6.66	77.90	14.77		60.0	

10660-AAA	Pulse Waveform (200Hz, 40%)	X	100.00	106.89	21.67	3.98	80.0	± 9.6 %
		Y	100.00	101.15	19.24		80.0	
		Z	100.00	98.11	17.66		80.0	
10661-AAA	Pulse Waveform (200Hz, 60%)	X	100.00	109.97	21.79	2.22	100.0	± 9.6 %
		Y	1.04	66.37	7.97		100.0	
		Z	0.32	60.00	4.70		100.0	
10662-AAA	Pulse Waveform (200Hz, 80%)	X	100.00	122.28	24.82	0.97	120.0	± 9.6 %
		Y	46.02	217.52	18.45		120.0	
		Z	88.16	61.15	1.49		120.0	

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

APPENDIX D: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity ϵ' can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\epsilon_r\epsilon_0}{[\ln(b/a)]^2} \int_a^b \int_a^b \int_0^\pi \cos\phi' \frac{\exp[-j\omega r(\mu_0\epsilon_r'\epsilon_0)^{1/2}]}{r} d\phi' d\rho' d\rho$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively, $r^2 = \rho^2 + \rho'^2 - 2\rho\rho'\cos\phi'$, ω is the angular frequency, and $j = \sqrt{-1}$.

Table D-I
Composition of the Tissue Equivalent Matter

Frequency (MHz)	750	835	1750	1900	2300 - 2600	5200 - 5800
Tissue	Body	Body	Body	Body	Body	Body
Ingredients (% by weight)						
Bactericide	See page 2	0.1				See page 3
DGBE			31	29.44	26.7	
HEC		1				
NaCl		0.94	0.2	0.39	0.1	
Sucrose		44.9				
Polysorbate						
Water		53.06	68.8	70.17	73.2	

FCC ID: BCGA2123		SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 01/02/19 - 01/16/19	DUT Type: Tablet Device		APPENDIX D: Page 1 of 3

2 Composition / Information on ingredients

The Item is composed of the following ingredients:

H ₂ O	Water, 35 – 58%
Sucrose	Sugar, white, refined, 40 – 60%
NaCl	Sodium Chloride, 0 – 6%
Hydroxyethyl-cellulose	Medium Viscosity (CAS# 9004-62-0), <0.3%
Preventol-D7	Preservative: aqueous preparation, (CAS# 55965-84-9), containing 5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyl-3(2H)-isothiazolone, 0.1 – 0.7%
Relevant for safety; Refer to the respective Safety Data Sheet*.	

Figure D-1

Composition of 750 MHz Body Tissue Equivalent Matter

Note: 750MHz liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

Schmid & Partner Engineering AG

s p e a g

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info@speag.com, http://www.speag.com

Measurement Certificate / Material Test

Item Name	Body Tissue Simulating Liquid (MSL750V2)
Product No.	SL AAM 075 AA (Batch: 170608-1)
Manufacturer	SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Setup Validation

Validation results were within $\pm 2.5\%$ towards the target values of Methanol.

Target Parameters

Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

Test Condition

Ambient	Environment temperatur (22 ± 3)°C and humidity < 70%.
TSL Temperature	22°C
Test Date	20-Jun-17
Operator	CL

Additional Information

TSL Density	1.212 g/cm ³
TSL Heat-capacity	3.006 kJ/(kg·K)

f (MHz)	Measured			Target		Diff.to Target [%]	
	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
600	57.3	25.02	0.84	56.1	0.95	2.2	-12.2
625	57.1	24.67	0.86	56.0	0.95	1.9	-10.1
650	56.8	24.32	0.88	55.9	0.96	1.6	-8.0
675	56.6	24.02	0.90	55.8	0.96	1.3	-5.8
700	56.3	23.71	0.92	55.7	0.96	1.1	-3.8
725	56.1	23.48	0.95	55.6	0.96	0.8	-1.5
750	55.9	23.25	0.97	55.5	0.96	0.6	0.7
775	55.6	23.04	0.99	55.4	0.97	0.3	2.9
800	55.4	22.82	1.02	55.3	0.97	0.1	5.0
825	55.2	22.65	1.04	55.2	0.98	-0.1	6.3
838	55.1	22.56	1.05	55.2	0.98	-0.3	6.9
850	54.9	22.47	1.06	55.2	0.99	-0.4	7.5
875	54.7	22.34	1.09	55.1	1.02	-0.7	6.7
900	54.5	22.21	1.11	55.0	1.05	-0.9	5.9
925	54.3	22.08	1.14	55.0	1.06	-1.3	6.9
950	54.1	21.95	1.16	54.9	1.08	-1.6	7.9
975	53.8	21.86	1.19	54.9	1.09	-1.9	9.1
1000	53.6	21.76	1.21	54.8	1.10	-2.2	10.2

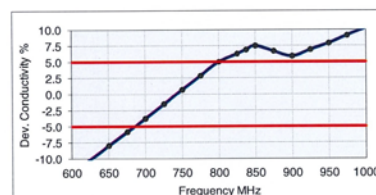
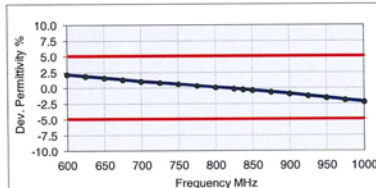


Figure D-2

750MHz Body Tissue Equivalent Matter

FCC ID: BCGA2123		SAR EVALUATION REPORT	Approved by: Quality Manager
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3 Composition / Information on ingredients

The Item is composed of the following ingredients:

Water	60 – 80%
Esters, Emulsifiers, Inhibitors	20 – 40%
Sodium salt	0 – 1.5%

Figure D-3
Composition of 5 GHz Body Tissue Equivalent Matter

Note: 5 GHz Body liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

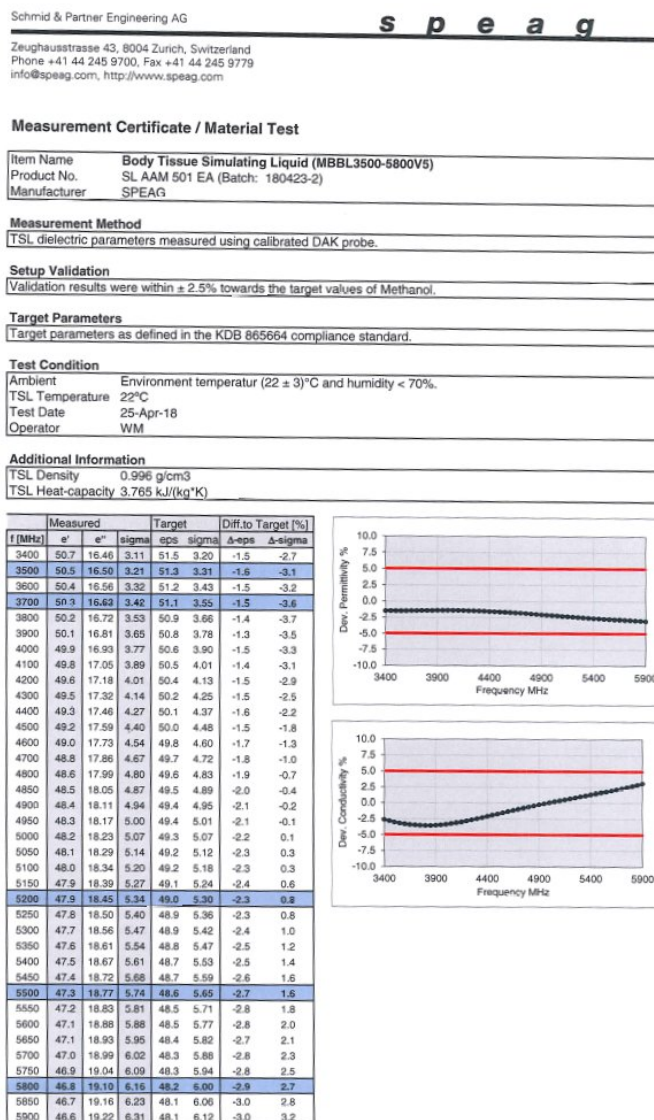


Figure D-4
5 GHz Body Tissue Equivalent Matter

FCC ID: BCGA2123	 PCTEST ENGINEERING LABORATORY, INC.	SAR EVALUATION REPORT	Approved by: Quality Manager
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APPENDIX E: SAR SYSTEM VALIDATION

Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

Table E-1
SAR System Validation Summary

SAR SYSTEM #	FREQ. [MHz]	DATE	PROBE SN	PROBE TYPE	PROBE CAL. POINT	COND.	PERM.	CW VALIDATION			MOD. VALIDATION		
						(σ)	(ϵ_r)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
AM1	750	7/13/2018	3275	ES3DV3	750 Body	1.005	54.788	PASS	PASS	PASS	N/A	N/A	N/A
AM6	835	4/4/2018	3131	ES3DV3	835 Body	0.997	56.122	PASS	PASS	PASS	GMSK	PASS	N/A
AM7	1750	3/30/2018	3329	ES3DV3	1750 Body	1.534	54.760	PASS	PASS	PASS	N/A	N/A	N/A
AM4	1750	6/21/2018	3119	ES3DV3	1750 Body	1.421	53.712	PASS	PASS	PASS	N/A	N/A	N/A
AM4	1900	6/21/2018	3119	ES3DV3	1900 Body	1.521	53.508	PASS	PASS	PASS	GMSK	PASS	N/A
AM7	2300	4/2/2018	3329	ES3DV3	2300 Body	1.885	50.850	PASS	PASS	PASS	N/A	N/A	N/A
AM5	2450	12/10/2018	3318	ES3DV3	2450 Body	2.044	51.289	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM2	2450	11/9/2018	7416	EX3DV4	2450 Body	2.020	51.408	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM3	2450	12/10/2018	7420	EX3DV4	2450 Body	2.044	51.289	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM2	2600	11/12/2018	7416	EX3DV4	2600 Body	2.245	52.580	PASS	PASS	PASS	TDD	PASS	N/A
AM6	5250	4/5/2018	3837	EX3DV4	5250 Body	5.455	47.993	PASS	PASS	PASS	OFDM	N/A	PASS
AM6	5600	4/6/2018	3837	EX3DV4	5600 Body	5.963	47.270	PASS	PASS	PASS	OFDM	N/A	PASS
AM6	5750	4/6/2018	3837	EX3DV4	5750 Body	6.176	47.000	PASS	PASS	PASS	OFDM	N/A	PASS

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.

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APPENDIX G: POWER REDUCTION VERIFICATION

The device supports manufacturer's proprietary power reduction mechanism called "Detect Mode" for the Main Cellular Antenna. Details of this mechanism can be found in the Operational Description. When the device is being used "on-body" or "held in hand" by the user, the device will detect motion and reduce the power of the main antenna. Per the manufacturer, the mechanism is agnostic to different cellular air interfaces. Detect Mode operation was verified for two test cases, on-body and held in hand, for each supported cellular band. The power reduction verification results are below.

1.1 Main Antenna Power Reduction Verification Summary

Table G-1
Main Antenna Power Reduction Verification

Mode/Band	Maximum Scenario Maximum Allowed Target Power [dBm]	Reduced Scenario Maximum Allowed Target Power [dBm]	Conducted Power [dBm]			Verdict
			Maximum	Test Case 1	Test Case 2	
GPRS 850 (2 Tx)	28.50 (± 0.75)	23.95 (± 0.75)	28.97	24.41	24.38	PASS
GPRS 1900 (2 Tx)	26.00 (± 0.75)	20.05 (± 0.75)	26.25	20.25	20.19	PASS
WCDMA B5	25.00 (± 0.5)	18.20 (± 0.5)	25.50	18.21	18.21	PASS
WCDMA B4	24.50 (± 0.5)	13.70 (± 0.5)	24.53	13.72	13.76	PASS
WCDMA B2	25.00 (± 0.5)	13.00 (± 0.5)	25.17	13.22	13.25	PASS
LTE Band 12	25.00 (± 0.5)	18.50 (± 0.5)	25.39	18.83	18.82	PASS
LTE Band 17	24.00 (± 0.5)	18.50 (± 0.5)	24.24	18.73	18.71	PASS
LTE Band 14	25.00 (± 0.5)	18.00 (± 0.5)	25.29	18.19	18.20	PASS
LTE Band 13	24.00 (± 0.5)	19.60 (± 0.5)	24.24	19.70	19.72	PASS
LTE Band 5	25.00 (± 0.5)	18.20 (± 0.5)	25.35	18.55	18.53	PASS
LTE Band 26	24.00 (± 0.5)	19.50 (± 0.5)	24.32	19.71	19.80	PASS
LTE Band 4	25.00 (± 0.5)	13.50 (± 0.5)	25.21	13.75	13.77	PASS
LTE Band 66	23.00 (± 0.5)	13.70 (± 0.5)	23.19	14.00	14.02	PASS
LTE Band 2	25.00 (± 0.5)	13.00 (± 0.5)	25.20	13.27	13.29	PASS
LTE Band 25	23.00 (± 0.5)	13.80 (± 0.5)	22.97	13.73	13.74	PASS
LTE Band 30	22.80 (± 0.5)	12.50 (± 0.5)	23.00	12.71	12.73	PASS
LTE Band 7	22.75 (± 0.5)	11.40 (± 0.5)	22.75	11.40	11.36	PASS
LTE Band 41 (PC3)	22.75 (± 0.5)	14.00 (± 0.5)	23.00	14.22	14.24	PASS
LTE Band 41 (PC2)	26.50 (± 0.5)	13.50 (± 0.5)	26.72	13.78	13.72	PASS

Test Case 1: Device Held in Hand

Test Case 2: Device Resting on Lap

Test Cases represent typical scenarios in which the device power would be reduced. In these scenarios detect mode has been verified to identify typical on-body use-cases including when thin objects, such as a magazine or newspaper, are placed between the body and the device. In the absence of detect mode output, the device defaults to the most conservative power.

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APPENDIX H: DOWNLINK LTE CA RF CONDUCTED POWERS

1.1 LTE Downlink Only Carrier Aggregation Test Reduction Methodology

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number of component carriers (CCs) supported by the product implementation. Per April 2018 TCBC Workshop Notes, the following test reduction methodology was applied to determine the combinations required for conducted power measurements.

LTE DLCA Test Reduction Methodology:

- The supported combinations were arranged by the number of component carriers in columns.
- Any limitations on the PCC or SCC for each combination were identified alongside the combination (e.g. CA_2A-2A-4A-12A, but B12 can only be configured as a SCC).
- Power measurements were performed for "supersets" (LTE CA combinations with multiple components carriers) and any "subsets" (LTE CA combinations with fewer component carriers) that were not completely covered by the supersets.
- Only subsets that have the exact same components as a superset were excluded for measurement.
- When there were certain restrictions on component carriers that existed in the superset that were not applied for the subset, the subset configuration was additionally evaluated.
- Both inter-band and intra-band downlink carrier aggregation scenarios were considered.

Table 1 – Example of Exclusion Table for SISO Configurations

Index	PCC	Supported Component Carriers (SCCs)				Restrictions	Completely Covered by Measurement Superset
		SCC1	SCC2	SCC3	SCC4		
001-01	CA_2A	5.10, 15, 18	5.10, 15, 18				001-01
001-02	CA_2A-2A	5.10, 15, 18	5.10, 15, 18				001-01
001-03	CA_2A-2A-4A	5.10, 15, 18	5.10, 15, 18				001-01
001-04	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-05	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-06	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-07	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-08	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-09	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-10	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-11	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-12	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-13	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-14	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-15	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-16	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-17	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-18	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-19	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-20	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-21	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-22	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-23	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-24	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-25	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-26	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-27	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-28	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-29	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-30	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-31	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-32	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-33	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-34	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-35	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-36	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-37	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-38	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-39	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-40	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-41	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-42	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-43	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-44	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-45	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-46	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-47	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-48	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-49	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-50	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-51	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-52	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-53	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-54	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-55	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-56	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-57	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-58	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-59	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-60	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-61	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-62	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-63	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-64	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-65	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-66	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-67	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-68	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-69	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-70	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-71	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-72	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-73	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-74	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-75	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-76	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-77	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-78	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-79	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-80	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-81	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-82	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-83	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-84	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-85	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-86	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-87	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-88	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-89	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-90	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-91	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-92	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-93	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-94	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-95	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-96	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-97	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-98	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-99	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01
001-100	CA_2A-2A-4A-12A	5.10, 15, 18	5.10, 15, 18				001-01

1.2 LTE Downlink Only Carrier Aggregation Test Selection and Setup

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number component carriers (CCs) supported by the product implementation. For those configurations required by April 2018 TCBC Workshop Notes, conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

This device supports LAA with downlink carrier aggregation only. It uses carrier aggregation in the downlink to combine LTE in the unlicensed spectrum (i.e. LTE Band 46) with LTE in the licensed band (served as PCC). All uplink communications and acknowledgements on the PCC remain identical to specifications when downlink carrier aggregation is inactive.

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Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the maximum average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive. All bands required for SAR testing per FCC KDB procedures were considered. Based on the measured maximum powers below, no additional SAR tests were required for DLCA SAR configurations.

General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.
- All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.

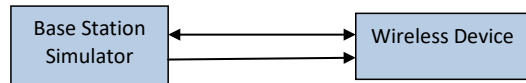


Figure 1
DL CA Power Measurement Setup

1.3 Downlink Carrier Aggregation RF Conducted Powers

1.3.1 LTE Band 12 as PCC

Table 1
Output Powers – Ant WF3

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC 1				SCC 2				SCC 3				Power	
														SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]
CA 2A-12A	LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	18.95	19.00	
CA 4A-12A (1)	LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	18.99	19.00	
CA 4A-12A (2)	LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	18.93	19.00	
CA 12A-66A (1)	LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	18.97	19.00	
CA 12A-66A (2)	LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	18.97	19.00	
CA 2C-12A	LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B2	20	900	1960	LTE B2	20	702	1940.2	-	-	-	-	-	-	-	19.00	19.00	
CA 4A-7A-12A (1)	LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B4	20	2175	2132.5	LTE B7	20	3100	2655	-	-	-	-	-	-	-	19.00	19.00	
CA 2A-2A-12B	LTE B12	5	23035	701.5	16QAM	1	0	5035	731.5	LTE B12	10	5107	736.7	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-	-	18.96	19.00	
CA 2A-2A-4A-12A	LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	18.96	19.00	
CA 2A-4A-4A-12A	LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	10	2250	2150	-	-	-	18.97	19.00	
CA 2A-4A-12B	LTE B12	5	23035	701.5	16QAM	1	0	5035	731.5	LTE B12	10	5107	736.7	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	18.98	19.00	
CA 2A-2A-12A-30A	LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	-	-	-	18.96	19.00	
CA 2A-2A-12A-66A	LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	-	18.91	19.00	
CA 2A-12A-66A-66A	LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2150	-	-	-	18.93	19.00	
CA 2A-12A-66C	LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	-	-	-	18.90	19.00	
CA 2A-4A-12A-30A	LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	-	-	-	18.93	19.00	
CA 2A-12A-30A-66A	LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B66	20	66786	2145	-	-	-	18.95	19.00	
CA 4A-4A-12B	LTE B12	5	23035	701.5	16QAM	1	0	5035	731.5	LTE B12	10	5107	736.7	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	18.95	19.00	
CA 4A-4A-12A-30A	LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	LTE B30	10	9820	2355	-	-	-	18.98	19.00	
CA 12A-30A-66A-66A	LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2150	-	-	-	18.94	19.00	

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Table 2
Output Powers – Ant WF5

Combination	PCC Band	PCC BW [MHz]	PCC					SCC 1				SCC 2				SCC 3				Power				
			PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 2A-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	18.94	19.00
CA 4A-12A (1)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	18.94	19.00
CA 4A-12A (2)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	18.94	19.00
CA 12A-66A (1)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	18.95	19.00
CA 12A-66A (2)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	18.95	19.00
CA 2C-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B2	20	702	1940.2	-	-	-	-	-	18.95	19.00
CA 4A-7A-12A (1)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B4	20	2175	2132.5	LTE B7	20	3100	2655	-	-	-	-	-	18.96	19.00
CA 2A-2A-12A	LTE B12	5	23095	707.5	64QAM	1	0	5095	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B2	20	700	1940	2132.5	18.76	19.00
CA 2A-2A-1A-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	18.73	19.00	
CA 2A-4A-4A-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	18.75	19.00	
CA 2A-4A-12B	LTE B12	5	23095	701.5	64QAM	1	0	5095	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	18.43	19.00	
CA 2A-2A-12A-30A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	18.42	19.00	
CA 2A-1A-12A-66A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	18.73	19.00	
CA 2A-12A-66A-66A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2150	18.82	19.00	
CA 2A-12A-66C	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	18.62	19.00	
CA 2A-4A-1A-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	18.70	19.00	
CA 2A-1A-30A-66A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B66	20	66786	2145	18.70	19.00	
CA 4A-4A-12B	LTE B12	5	23095	701.5	64QAM	1	0	5095	731.5	LTE B12	10	5107	738.7	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	18.85	19.00	
CA 4A-4A-12A-30A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	LTE B30	10	9820	2355	18.77	19.00	
CA 12A-30A-66A-66A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2150	18.77	19.00	

1.3.2 LTE Band 13 as PCC

Table 3
Output Powers – Ant WF3

Combination	PCC Band	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power	
		PCC BW [MHz]	PCC (UL) Ch	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
CA 2A-4A-13A	LTE B13	10	23230	762	16QAM	1	0	5230	761	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	18.92	18.99	
CA 2A-13A-66A	LTE B13	5	23230	762	QPSK	12	6	5230	761	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	18.50	18.50	
CA 4A-4A-13A	LTE B13	5	23230	762	QPSK	1	0	5230	761	LTE B4	20	2175	2132.5	LTE B4	20	2350	2150	-	-	-	-	-	-	-	-	-	18.81	18.89	
CA 13A-66A	LTE B13	5	23230	762	QPSK	12	6	5230	761	LTE B46	20	50665	5537.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	18.50	18.50	
CA 2A-13A-66C	LTE B13	5	23230	762	QPSK	12	6	5230	761	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	17.83	18.50	-	-	-	18.41	18.50	
CA 2A-2A-13A-66A	LTE B13	5	23230	762	QPSK	12	6	5230	761	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	18.45	18.50	-	-	-	18.15	18.50	
CA 2A-13A-66A-66A	LTE B13	5	23230	762	QPSK	12	6	5230	761	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2150	18.35	18.50	-	-	-	18.15	18.50	
CA 2A-13A-66B	LTE B13	5	23230	762	QPSK	12	6	5230	761	LTE B2	20	900	1960	LTE B66	15	66786	2145	LTE B66	5	66879	2164.8	18.48	18.50	-	-	-	18.48	18.50	
CA 2A-13A-66C	LTE B13	5	23230	762	QPSK	12	6	5230	761	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	18.42	18.50	-	-	-	18.42	18.50	
CA 13A-66A-66B	LTE B13	5	23230	762	QPSK	12	6	5230	761	LTE B46	20	66786	2145	LTE B66	15	67038	2163.2	LTE B66	15	67020	2162.5	18.14	18.50	-	-	-	18.14	18.50	
CA 13A-66A-66C	LTE B13	5	23230	762	QPSK	12	6	5230	761	LTE B46	20	66786	2145	LTE B66	20	67038	2163.2	LTE B66	20	67236	2150	18.40	18.50	-	-	-	18.40	18.50	
CA 13A-66A-66A	LTE B13	5	23230	762	QPSK	12	6	5230	761	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B66	20	66786	2145	18.48	18.50	-	-	-	18.48	18.50	
CA 2A-13A-66D	LTE B13	5	23230	762	QPSK	12	6	5230	761	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	18.46	18.50	-	-	-	18.46	18.50	
CA 13A-46E	LTE B13	5	23230	762	QPSK	12	6	5230	761	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50663	5537.3	18.50	18.50	-	-	-	18.50	18.50	
CA 13A-46D	LTE B13	5	23230	762	QPSK	12	6	5230	761	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50663	5537.3	18.50	18.50	-	-	-	18.50	18.50	
CA 13A-46D-66A	LTE B13	5	23230	762	16QAM	1	0	5230	761	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50663	5537.3	18.50	18.50	-	-	-	18.50	18.50	

Table 4
Output Powers – Ant WF5

Combination	PCC										SCC 1				SCC 2				SCC 3				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 2A-4A-13A	LTE B13	10	23230	762	16QAM	1	0	5230	761	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	18.98	20.08	
CA 2A-13A-66A	LTE B13	10	23230	762	16QAM	1	0	5230	761	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	-	-	-	-	18.93	20.08	
CA 4A-4A-13A	LTE B13	10	23230	762	16QAM	1	0	5230	761	LTE B4	20	2175	2132.5	LTE B4	20	2350	2150	-	-	-	-	18.98	20.08	
CA 13A-66A-66A	LTE B13	10	23230	762	16QAM	1	0	5230	761	LTE B46	20	50665	5537.5	LTE B66	20	66786	2145	-	-	-	-	18.93	20.08	
CA 2A-13A-66C	LTE B13	10	23230	762	16QAM	1	0	5230	761	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	18.98	20.08	
CA 2A-2A-13A-66A	LTE B13	10	23230	762	16QAM	1	0	5230	761	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	18.80	20.08	
CA 2A-13A-66A-66A	LTE B13	10	23230	762	16QAM	1	0	5230	761	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2150	18.85	20.08	
CA 2A-13A-66B	LTE B13	10	23230	762	16QAM	1	0	5230	761	LTE B2	20	900	1960	LTE B66	15	66786	2145	LTE B66	5	66879	2164.8	20.07	20.08	
CA 2A-13A-66C	LTE B13	10	23230	762	16QAM	1	0	5230	761	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	19.90	20.08	
CA 13A-66A-66B	LTE B13	10	23230	762	16QAM	1	0	5230	761	LTE B46	20	66786	2145	LTE B66	15	67038	2163.2	LTE B66	15	67020	2162.5	19.86	20.08	
CA 13A-66A-66C	LTE B13	10	23230	762	16QAM	1	0	5230	761	LTE B46	20	66786	2145	LTE B66	20	67038	2163.2	LTE B66	20	67236	2150	19.81	20.08	
CA 13A-66A-66A	LTE B13	10	23230	762	16QAM	1	0	5230	761	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B66	20	66786	2145	18.96	20.08	
CA 2A-13A-66D	LTE B13	10	23230	762	16QAM	1	0	5230	761	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	18.96	20.08	
CA 13A-66E	LTE B13	10	23230	762	16QAM	1	0	5230	761	LTE B2	20	50665	5537.5	LTE B46	20	50665	5537.5	LTE B46	20	50665	5537.5	18.96	20.08	
CA 13A-66F	LTE B13	10	23230	762	16QAM	1	0	5230	761	LTE B46	20	50665	5537.5	LTE B46	20	50665	5537.5	LTE B66	20	50665	5537.5	18.93	20.08	

1.3.4 LTE Band 5 as PCC

Table 7
Output Powers – Ant WF3

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power	
					Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)					
CA SA-7A	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B7	20	3100	2655	-	-	-	-	-	-	-	-	-	-	-	-	-	18.70	18.70				
CA SA-25A	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B25	20	8365	1902.5	-	-	-	-	-	-	-	-	-	-	-	-	-	18.70	18.70				
CA SA-41A	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B41	20	40620	2593	-	-	-	-	-	-	-	-	-	-	-	-	-	18.70	18.70				
CA SA-46A (1)	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	-	18.64	18.70				
CA 2C-SA	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B2	20	900	1900	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	-	-	18.70	18.70			
CA SA-46C (1)	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	-	-	-	-	-	18.70	18.70				
CA 2A-2A-4A-SA	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B2	20	900	1900	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	-	-	18.65	18.70			
CA 2A-4A-4A-SA	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B2	20	900	1900	LTE B4	20	2175	2132.5	LTE B4	10	2190	2190	-	-	-	-	-	-	18.68	18.70			
CA 2A-4A-8A	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B2	20	900	1900	LTE B4	20	2175	2132.5	LTE B4	10	2190	2190	-	-	-	-	-	-	18.41	18.70			
CA 2A-2A-SA-30A	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B2	20	900	1900	LTE B2	20	700	1940	LTE B30	10	8920	2395	-	-	-	-	-	-	18.47	18.70			
CA 2A-2A-SA-66A	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B2	20	900	1900	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	-	-	-	-	18.41	18.70			
CA 2A-SA-30A-66A	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B2	20	900	1900	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	-	-	-	-	-	18.46	18.70			
CA 2A-4A-SA-30A	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B2	20	900	1900	LTE B4	20	2175	2132.5	LTE B30	10	8920	2395	-	-	-	-	-	-	18.37	18.70			
CA 2A-SA-30A-66A	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B2	20	900	1900	LTE B30	10	8920	2395	LTE B66	20	66786	2145	-	-	-	-	-	-	18.31	18.70			
CA 4A-8A-8A	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B4	20	2175	2132.5	LTE B4	10	2190	2190	-	-	-	-	-	-	-	-	-	-	18.52	18.70			
CA SA-46D (1)	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50963	5597.3	-	-	-	-	-	-	18.56	18.70			
CA SA-66B	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B66	20	66786	2145	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	-	-	-	-	-	-	18.70	18.70			
CA SA-66A-66B	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B66	20	66786	2145	LTE B66	5	67168	2183.2	LTE B66	15	67261	2192.5	-	-	-	-	-	-	18.25	18.70			
CA SA-30A-66A-66A	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B66	20	66786	2145	LTE B66	20	67038	2170.2	LTE B66	20	67236	2190	-	-	-	-	-	-	18.30	18.70			
CA 2A-2A-SA-66B	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B2	20	900	1900	LTE B2	20	700	1940	LTE B66	15	66786	2145	LTE B66	5	66879	2154.3	18.70	18.70					
CA 2A-2A-SA-66C	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B2	20	900	1900	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	18.70	18.70					
CA 2A-SB-66A-66A	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B5	10	2497	878.7	LTE B2	20	900	1900	LTE B66	20	66786	2145	LTE B66	20	67038	2170.2	18.99	18.70					
CA 2A-SB-66C	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B5	10	2497	878.7	LTE B2	20	900	1900	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	18.46	18.70					
CA 2A-SB-30A-66A	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B5	10	2497	878.7	LTE B30	10	8920	2395	LTE B66	20	66786	2145	LTE B66	20	67236	2190	18.44	18.70					
CA SB-30A-66A-66A	LTE B5	10	20425	836.5	QPSK	1	49	2525	881.5	LTE B5	10	2497	878.7	LTE B30	10	8920	2395	LTE B66	20	66786	2145	LTE B66	20	67236	2190	18.44	18.70					

Table 8
Output Powers – Ant WF5

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC 1				SCC 2				SCC 3				SCC 4				Power			
										SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
CA SA-7A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B7	20	3100	2655	-	-	-	-	-	-	-	-	-	-	-	-	-	18.81	20.00	
CA SA-25A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B25	20	8365	1902.5	-	-	-	-	-	-	-	-	-	-	-	-	-	18.97	20.00	
CA SA-41A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B41	20	40620	2593	-	-	-	-	-	-	-	-	-	-	-	-	-	18.92	20.00	
CA SA-46A (1)	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	-	18.90	20.00	
CA 2C-SA	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1900	LTE B2	20	700	1940	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	18.98	20.00	
CA SA-46C (1)	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	-	-	-	-	-	18.88	20.00	
CA 2A-2A-4A-SA	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1900	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	-	-	18.98	20.00
CA 2A-4A-4A-SA	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1900	LTE B4	20	2175	2132.5	LTE B4	10	2190	2190	-	-	-	-	-	-	18.97	20.00
CA 2A-2A-SA-30A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1900	LTE B2	20	700	1940	LTE B30	10	8920	2395	-	-	-	-	-	-	18.97	20.00
CA 2A-2A-SA-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1900	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	-	-	-	-	18.98	20.00
CA 2A-SA-30A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1900	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	-	-	-	-	-	18.99	20.00
CA 2A-4A-SA-30A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1900	LTE B4	20	2175	2132.5	LTE B30	10	8920	2395	-	-	-	-	-	-	18.99	20.00
CA 2A-SA-30A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1900	LTE B30	10	8920	2395	LTE B66	20	66786	2145	-	-	-	-	-	-	18.97	20.00
CA 4A-8A-8A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B4	20	2175	2132.5	LTE B4	10	2190	2190	-	-	-	-	-	-	-	-	-	-	18.98	20.00
CA 4A-4A-SA-30A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B4	20	2175	2132.5	LTE B4	10	2190	2190	LTE B30	10	8920	2395	-	-	-	-	-	-	18.95	20.00
CA SA-46D (1)	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50963	5597.3	-	-	-	-	-	-	18.90	20.00
CA SA-66B	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B66	20	66786	2145	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	-	-	-	-	-	-	18.96	20.00
CA SA-66A-66B	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B66	20	66786	2145	LTE B66	5	67168	2183.2	LTE B66	15	67261	2192.5	-	-	-	-	-	-	18.94	20.00
CA SA-66A-66C	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B66	20	66786	2145	LTE B66	20	67038	2170.2	LTE B66	20	67236	2190	-	-	-	-	-	-	18.96	20.00
CA SA-66A-66D	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B66	20	66905	2205	LTE B66	20	66905	2205	LTE B66	20	67236	2190	-	-	-	-	-	-	18.97	20.00
CA 2A-2A-SA-66B	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1940	LTE B2	20	700	1940	LTE B66	15	66878	2145	LTE B66	5	66878	2145.3	-	18.94	20.00	
CA 2A-2A-SA-66C	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1940	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	66786	2144.8	-	18.94	20.00	
CA 2A-2A-SA-66D	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1940	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	66786	2144.8	-	18.94	20.00	
CA 2A-SB-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B5	10	2497	878.7	LTE B2	20	900	1940	LTE B66	20	66786	2145	LTE B66	20	66786	2144.8	-	18.94	20.00	
CA 2A-SB-66B	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B5	10	2497	878.7	LTE B2	20	900	1940	LTE B66	10	8623	2333	LTE B66	20	66786	2144	-	18.94	20.00	

1.3.5 LTE Band 26 as PCC

Table 9
Output Powers – Ant WF3

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	PCC				PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC 2				Power	
					Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel						SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_25A-26A	LTE B26	10	26740	819	64QAM	1	0	8740	864	LTE B25	20	8365	1962.5	-	-	-	-	18.40	18.70
CA_25A-25A-26A	LTE B26	5	26715	816.5	QPSK	1	0	8715	861.5	LTE B25	20	8365	1962.5	LTE B25	20	8590	1985	18.54	18.70

Table 10
Output Powers – Ant WF5

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	PCC				PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC 2				Power	
					Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel						SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_25A-26A	LTE B26	5	26715	816.5	16QAM	1	24	8715	861.5	LTE B25	20	8365	1962.5	-	-	-	-	19.70	20.00
CA_25A-25A-26A	LTE B26	5	26715	816.5	16QAM	1	24	8715	861.5	LTE B25	20	8365	1962.5	LTE B25	20	8590	1985	19.77	20.00

1.3.6 LTE Band 66 as PCC

Table 11
Output Powers – Ant WF3

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC				PCC (DL) Freq. [MHz]	SCC Band	SCC 1				SCC 2				SCC 3				SCC 4				Power	
						PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]			SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel
CA_2A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00	
CA_7A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B2	20	1100	2065	-	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00	
CA_12A-66A (1)	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B12	20	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00	
CA_12A-66A (2)	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00	
CA_2C-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940.2	-	-	-	-	-	-	-	-	-	14.00	14.00	
CA_2A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B2	20	900	1960	LTE B46	20	5095	5537.5	-	-	-	-	-	-	-	-	-	13.75	14.00	
CA_13A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B46	20	5095	5537.5	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	-	13.85	14.00	
CA_20A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B46	20	5095	5537.5	LTE B20	10	5230	751	-	-	-	-	-	-	-	-	-	13.90	14.00	
CA_66A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B46	20	5095	5537.5	LTE B46	20	47090	5260	-	-	-	-	-	-	-	-	-	13.80	14.00	
CA_66A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B46	20	5095	5537.5	LTE B46	20	47090	5260	-	-	-	-	-	-	-	-	-	13.89	14.00	
CA_2A-2A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-	-	-	-	13.80	14.00	
CA_2A-2A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	-	-	-	-	-	13.85	14.00	
CA_2A-12A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	-	13.73	14.00	
CA_2A-12A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	13.82	14.00	
CA_2A-2A-13A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B13	10	5230	751	-	-	-	-	-	13.77	14.00	
CA_2A-13A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B13	10	5230	751	-	-	-	-	-	13.82	14.00	
CA_2A-13A-66B	LTE B66	15	132047	1717.5	16QAM	1	0	66511	2117.5	LTE B66	5	66604	2126.8	LTE B2	20	900	1960	LTE B13	10	5230	751	-	-	-	-	-	13.82	14.00	
CA_2A-13A-66C	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B14	10	5330	763	-	-	-	-	-	13.87	14.00	
CA_2A-14A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B14	10	5330	763	-	-	-	-	-	13.85	14.00	
CA_2A-2A-30A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	5640	2365	-	-	-	-	-	13.94	14.00	
CA_2A-30A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B30	10	5640	5517.7	-	-	-	-	-	-	-	-	-	14.00	14.00	
CA_2A-30A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	5640	2365	-	-	-	-	-	13.81	14.00	
CA_2A-14A-30A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B2	20	900	1960	LTE B14	10	5330	763	-	-	-	-	-	-	-	-	-	13.82	14.00	
CA_2A-30A-30A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B2	20	900	1960	LTE B30	10	5640	5517.7	-	-	-	-	-	-	-	-	-	13.85	14.00	
CA_5A-66B	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	5	67268	2193.2	LTE B66	15	67268	2193.2	LTE B5	10	2525	881.5	-	-	-	-	-	13.86	14.00	
CA_5A-66B-66C	LTE B66	15	132047	1717.5	16QAM	1	0	66511	2117.5	LTE B66	5	66604	2126.8	LTE B5	10	67236	2190	LTE B5	10	2525	881.5	-	-	-	-	-	13.84	14.00	
CA_5A-66C	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B5	10	67236	2190	LTE B5	10	2525	881.5	-	-	-	-	-	13.87	14.00	
CA_5A-66C-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B5	10	67236	2190	LTE B5	10	2525	881.5	-	-	-	-	-	13.89	14.00	
CA_12A-30A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	13.69	14.00	
CA_13A-66A-66B	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	-	13.87	14.00	
CA_13A-66B-66A	LTE B66	15	132047	1717.5	16QAM	1	0	66511	2117.5	LTE B66	5	66604	2126.8	LTE B66	20	67236	2190	LTE B13	10	5230	751	-	-	-	-	-	13.79	14.00	
CA_13A-66C-66C	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B13	10	5230	751	-	-	-	-	-	13.78	14.00	
CA_13A-66C-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B13	10	5230	751	LTE B46	20	5095	5537.5	-	-	-	-	-	-	-	-	-	13.79	14.00	
CA_14A-30A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B14	10	5330	763	-	-	-	-	-	-	-	-	-	13.61	14.00	
CA_14A-66C-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	5095	5537.5	LTE B46	20	5095	5537.5	-	-	-	-	-	-	-	-	-	14.00	14.00	
CA_46C-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B46	20	5095	5537.5	-	-	-	-	-	-	-	-	-	13.80	14.00	
CA_2A-2A-66A-66B	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-	-	-	-	13.88	14.00	
CA_2A-2A-66A-66C	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-	-	-	-	13.86	14.00	
CA_2A-2A-66A-66A	LTE B66	15	132047	1717.5	16QAM	1	0	66511	2117.5	LTE B66	5	66604	2126.8	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	-	13.80	14.00	
CA_2A-2A-66C	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	-	14.00	14.00	
CA_2A-2A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	-	14.00	14.00	
CA_2A-5B-66C	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	-	13.73	14.00	
CA_2A-5B-66C	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	-	13.73	14.00	
CA_2A-30A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	5640	2365	-	-	-	-	-	13.80	14.00	
CA_2A-30A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B30	10	5640	5517.7	-	-	-	-	-	-	-	-	-	13.85	14.00	
CA_13A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	-	13.78	14.00	
CA_13A-66C-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B66	20	67236	2190	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	-	13.78	14.00	
CA_46C-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B46	20	5095	5537.5	LTE B46	20	53340	5825	LTE B46	20	53342	5805.2	LTE B46	20	53344	5788.4	14.00	14.00	14.00	
CA_46D-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B46	20	5095	5537.5	LTE B46	20	50947	5537.7	LTE B46	20	50985	5537.3	LTE B46	20	50983	5537.1	14.00	14.00	14.00	
CA_46D-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	LTE B46	20	5095	553																

Table 12
Output Powers – Ant WF5

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch	PCC					PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC 1			SCC 2			SCC 3			SCC 4			Power			
				Mod.	PCC UL# RB	PCC UL# RB Offset	SCC BW [MHz]	SCC (DL) Channel				SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 2A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B2	20	900	1960													14.20	14.20
CA 7A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B7	20	3100	2655													14.04	14.20
CA 12A-66A (3)	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B12	10	5095	737.5													14.20	14.20
CA 12A-66A (9)	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B12	10	5095	737.5													14.20	14.20
CA 2C-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940									14.09	14.20
CA 2A-4A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B2	20	900	1960	LTE B46	20	50965	5537.5									14.20	14.20
CA 13A-66A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B46	20	50965	5537.5	LTE B13	10	5230	751									14.09	14.20
CA 20A-66A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B25	20	67236	2190									13.98	14.20
CA 66A-66A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B46	20	50965	5537.5	LTE B46	20	47090	5180									14.06	14.20
CA 1A-66A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B46	20	50965	5537.5													14.00	14.20
CA 2A-2A-66A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940					14.17	14.20
CA 2A-2A-5A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B2	20	900	1960	LTE B5	10	2525	881.5					14.15	14.20
CA 2A-5A-66A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B2	20	900	1960	LTE B12	10	5095	737.5					14.14	14.20
CA 12A-12A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B2	20	900	1960	LTE B12	10	5095	737.5					14.16	14.20
CA 2A-12A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B2	20	900	1960	LTE B12	10	5095	737.5					14.18	14.20
CA 2A-13A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B2	20	900	1960	LTE B13	10	5230	751					14.20	14.20
CA 2A-13A-66B	LTE B25	15	132047	1717.5	QPSK	1	0	66511	2117.5	LTE B25	5	66604	2126.8	LTE B2	20	900	1960	LTE B13	10	5230	751					14.20	14.20
CA 2A-13A-66C	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B2	20	900	1960	LTE B13	10	5230	751					14.20	14.20
CA 2A-2A-14A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B14	10	5330	763					14.20	14.20
CA 2A-14A-66A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B2	20	900	1960	LTE B14	10	5330	763					14.20	14.20
CA 2A-2A-30A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B30	10	8620	2395					14.20	14.20
CA 2A-66A-66B	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B2	20	900	1960	LTE B46	20	50965	5537.5	LTE B46	20	50965	5537.5					14.20	14.20
CA 2A-14A-30A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B2	20	900	1960	LTE B14	10	5330	763	LTE B30	10	8620	2395					14.20	14.20
CA 5A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B2	20	900	1960	LTE B5	10	2525	881.5					14.20	14.20
CA 6A-66A-66B	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B25	20	67236	2190	LTE B5	10	2525	881.5					14.20	14.20
CA 6A-66A-66C	LTE B25	15	132047	1717.5	QPSK	1	0	66511	2117.5	LTE B25	5	66604	2126.8	LTE B25	20	67236	2190	LTE B5	10	2525	881.5					14.08	14.20
CA 6A-66A-66C	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B25	20	67236	2190	LTE B5	10	2525	881.5					14.20	14.20
CA 6A-66A-66A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B25	20	67236	2190	LTE B5	10	2525	881.5					14.20	14.20
CA 12A-30A-66A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B12	10	5095	737.5	LTE B30	10	8620	2395					14.20	14.20
CA 13A-66A-66B	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B25	20	67236	2190	LTE B13	10	5230	751					14.20	14.20
CA 13A-66B-66A	LTE B25	15	132047	1717.5	QPSK	1	0	66511	2117.5	LTE B25	5	66604	2126.8	LTE B25	20	67236	2190	LTE B13	10	5230	751					14.14	14.20
CA 13A-66A-66C	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B25	20	67236	2190	LTE B13	10	5230	751					14.19	14.20
CA 13A-66C-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B25	20	67236	2190	LTE B13	10	5230	751					14.20	14.20
CA 14A-30A-66A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B14	10	5330	763	LTE B30	10	8620	2395					14.20	14.20
CA 66A-66C-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B46	20	50965	5537.5	LTE B46	20	50965	5537.5					14.20	14.20
CA 6C-66A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B46	20	50965	5537.5	LTE B46	20	50965	5537.5					14.20	14.20
CA 2A-2A-66A-66B	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940					14.18	14.20
CA 2A-2A-66A-66C	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940					14.20	14.20
CA 2A-2A-5A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B2	20	900	1960	LTE B5	10	2525	881.5					14.20	14.20
CA 2A-5B-66A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	14.20	14.20
CA 2A-5B-66C	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	14.20	14.20
CA 2A-4B-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B2	20	900	1960	LTE B46	20	50965	5537.5	LTE B46	20	50965	5537.5	LTE B46	20	50965	5537.5	14.18	14.20
CA 2A-4B-30A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	LTE B30	10	8620	2395	14.20	14.20
CA 2A-5A-66A-66B	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B25	20	67236	2190	LTE B5	10	2525	881.5	LTE B30	10	8620	2395					14.20	14.20
CA 13A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B13	10	5230	751	LTE B46	20	50965	5537.5	LTE B46	20	50965	5537.5	LTE B46	20	50965	5537.5	14.18	14.20
CA 46D-66A-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B46	20	50965	5537.5	LTE B46	20	53540	5825	LTE B46	20	53540	5825	LTE B46	20	53544	5786.4	14.18	14.20
CA 46D-66B	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B46	20	50965	5537.5	LTE B46	20	53540	5825	LTE B46	20	53540	5825	LTE B46	20	53544	5786.4	14.18	14.20
CA 46D-66A	LTE B25	20	132072	1720	QPSK	1	99	66536	2120	LTE B46	20	50965	5537.5	LTE B46	20	53540	5825	LTE B46	20	53540	5825	LTE B46	20	53544	578		

1.3.8 LTE Band 30 as PCC

Table 15
Output Powers – Ant WF3

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1				SCC 2				SCC 3				SCC 4				Power	
				Mod.	PCC UL RB	PCC UL RB Offset	PCC (UL) Freq. [MHz]			SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 2C-30A	LTE B30	30	27710	2310	10QAM	1	48	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-	-	-	-	-	-	-	12.80	12.95
CA 2A-2A-30A	LTE B30	30	27710	2310	10QAM	1	49	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	-	-	-	-	12.74	12.89
CA 2A-2A-12A-30A	LTE B30	30	27710	2310	10QAM	1	49	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5	-	-	-	-	12.77	12.95
CA 2A-2A-2A-30A	LTE B30	30	27710	2310	10QAM	1	49	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B29	10	9715	722.5	-	-	-	-	11.78	12.95
CA 2A-2A-30A-66A	LTE B30	30	27710	2310	10QAM	1	49	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	-	-	12.72	12.95
CA 2A-4A-30A	LTE B30	30	27710	2310	10QAM	1	49	9820	2355	LTE B2	20	900	1960	LTE B4	10	2175	2132.5	LTE B5	10	2525	881.5	-	-	-	-	12.68	12.95
CA 2A-4A-12A-30A	LTE B30	30	27710	2310	10QAM	1	49	9820	2355	LTE B2	20	900	1960	LTE B4	10	2175	2132.5	LTE B12	10	5095	737.5	-	-	-	-	12.72	12.95
CA 2A-4A-2A-30A	LTE B30	30	27710	2310	10QAM	1	49	9820	2355	LTE B2	20	900	1960	LTE B4	10	2175	2132.5	LTE B29	10	9715	722.5	-	-	-	-	12.69	12.95
CA 2A-5A-30A-66A	LTE B30	30	27710	2310	10QAM	1	49	9820	2355	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	-	-	-	-	12.72	12.95
CA 2A-12A-30A-66A	LTE B30	30	27710	2310	10QAM	1	49	9820	2355	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	12.83	12.95
CA 2A-14A-30A-66A	LTE B30	30	27710	2310	10QAM	1	49	9820	2355	LTE B2	20	900	1960	LTE B14	10	5330	763	LTE B66	20	66786	2145	-	-	-	-	12.74	12.95
CA 2A-2A-30A-66A	LTE B30	30	27710	2310	10QAM	1	49	9820	2355	LTE B2	20	900	1960	LTE B29	10	9715	722.5	LTE B66	20	66786	2145	-	-	-	-	12.64	12.95
CA 4A-4A-30A	LTE B30	30	27710	2310	10QAM	1	49	9820	2355	LTE B4	10	2175	2132.5	LTE B4	10	2175	2132.5	LTE B5	10	2525	881.5	-	-	-	-	12.67	12.95
CA 2A-2A-30A-66A	LTE B30	30	27710	2310	10QAM	1	49	9820	2355	LTE B4	10	2175	2132.5	LTE B4	10	2175	2132.5	LTE B12	10	5095	737.5	-	-	-	-	12.70	12.95
CA 4A-4A-12A-30A	LTE B30	30	27710	2310	10QAM	1	49	9820	2355	LTE B4	10	2175	2132.5	LTE B4	10	2175	2132.5	LTE B12	10	5095	737.5	-	-	-	-	12.70	12.95
CA 12A-30A-66A-66A	LTE B30	30	27710	2310	10QAM	1	49	9820	2355	LTE B12	10	5095	737.5	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	12.86	12.95
CA 14A-30A-66A-66A	LTE B30	30	27710	2310	10QAM	1	49	9820	2355	LTE B14	10	5330	763	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	12.81	12.95
CA 2A-5A-30A-66A	LTE B30	30	27710	2310	10QAM	1	49	9820	2355	LTE B5	10	2525	881.5	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	-	-	-	-	12.77	12.95

Table 16
Output Powers – Ant WF5

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1				SCC 2				SCC 3				SCC 4				Power	
				Mod.	PCC UL RB	PCC UL RB Offset	PCC (UL) Freq. [MHz]			SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 2C-30A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-	-	-	-	-	-	-	12.20	12.20
CA 2A-2A-30A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	-	-	-	-	12.12	12.20
CA 2A-2A-12A-30A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5	-	-	-	-	12.14	12.20
CA 2A-2A-2A-30A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B29	10	9715	722.5	-	-	-	-	12.14	12.20
CA 2A-2A-30A-66A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	-	-	12.18	12.20
CA 2A-4A-30A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B2	20	900	1960	LTE B4	10	2175	2132.5	LTE B5	10	2525	881.5	-	-	-	-	12.20	12.20
CA 2A-4A-12A-30A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B2	20	900	1960	LTE B4	10	2175	2132.5	LTE B12	10	5095	737.5	-	-	-	-	12.20	12.20
CA 2A-4A-2A-30A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B2	20	900	1960	LTE B4	10	2175	2132.5	LTE B29	10	9715	722.5	-	-	-	-	12.19	12.20
CA 2A-5A-30A-66A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	-	-	-	-	12.20	12.20
CA 2A-12A-30A-66A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	12.20	12.20
CA 2A-14A-30A-66A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5330	763	LTE B66	20	66786	2145	-	-	-	-	12.20	12.20
CA 4A-4A-30A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B4	10	2175	2132.5	LTE B4	10	2175	2132.5	LTE B5	10	2525	881.5	-	-	-	-	12.14	12.20
CA 2A-2A-30A-66A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B4	10	2175	2132.5	LTE B4	10	2175	2132.5	LTE B12	10	5095	737.5	-	-	-	-	12.18	12.20
CA 4A-4A-12A-30A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B4	10	2175	2132.5	LTE B4	10	2175	2132.5	LTE B12	10	5095	737.5	-	-	-	-	12.19	12.20
CA 5A-5A-66A-66A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	12.14	12.20
CA 12A-30A-66A-66A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B12	10	5095	737.5	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	12.19	12.20
CA 14A-30A-66A-66A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B14	10	5330	763	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	12.19	12.20
CA 2A-5A-30A-66A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B5	10	2525	881.5	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	-	-	-	-	12.19	12.20
CA 5B-30A-66A-66A	LTE B30	30	27710	2310	10QAM	1	25	9820	2355	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	LTE B66	20	66786	2145	-	-	-	-	12.20	12.20

1.3.9 LTE Band 7 as PCC

Table 17
Output Powers – Ant WF3

Combination	PCC Band	PCC					SCC 1					SCC 2					SCC 3					Power			
		PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dbm)	LTE Single Carrier Tx Power (dbm)		
CA 5A-7A	LTE B7	20	21350	2560	16QAM	1	99	3350	2680	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	11.50	11.50	
CA 7B	LTE B7	15	20825	2560.5	16QAM	1	0	2825	2627.5	LTE B7	5	2918	2636.8	-	-	-	-	-	-	-	-	-	11.50	11.49	
CA 7C (1)	LTE B7	20	21350	2560	16QAM	1	99	3350	2680	LTE B7	20	2929	2647.9	-	-	-	-	-	-	-	-	-	11.50	11.50	
CA 7A-66A (1)	LTE B7	20	21350	2560	16QAM	1	99	3350	2680	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	11.50	11.50	
CA 7A-66A	LTE B7	20	21350	2560	16QAM	1	99	3350	2680	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	11.50	11.50	
CA 4A-4A-7A (1)	LTE B7	20	21350	2560	16QAM	1	99	3350	2680	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	-	-	11.43	11.50
CA 4A-7A-7A	LTE B7	20	21350	2560	16QAM	1	99	3350	2680	LTE B7	20	2895	2630	LTE B4	20	2175	2132.5	-	-	-	-	-	-	11.40	11.50
CA 4A-7A-12A (1)	LTE B7	20	21350	2560	16QAM	1	99	3350	2680	LTE B4	20	2175	2132.5	LTE B12	10	9266	737.5	-	-	-	-	-	-	11.46	11.50
CA 7A-86C (1)	LTE B7	20	21350	2560	16QAM	1	99	3350	2680	LTE B46	20	50665	5537.5	LTE B46	20	50467	5537.7	-	-	-	-	-	-	11.29	11.50
CA 7A-46D (1)	LTE B7	20	21350	2560	16QAM	1	99	3350	2680	LTE B46	20	50665	5537.5	LTE B46	20	50467	5537.7	LTE B46	20	50683	5557.3	-	11.14	11.50	

1.3.10 LTE Band 41 as PCC

Table 19
Output Powers – Ant WF3

Combination	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power		
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
CA 41A-41A (1)	LTE B41	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	-	13.96	13.99	
CA 41A-41C	LTE B41	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	14.00	13.99	
CA 41C-41A	LTE B41	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	40383	2569.3	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	14.00	13.99	
CA 41A-41D	LTE B41	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	-	14.00	13.99
CA 41C-41A	LTE B41	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	40083	2569.3	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	-	14.00	13.99
CA 41D-41A	LTE B41	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	40083	2569.3	LTE B41	20	40981	2589.1	LTE B41	20	41490	2680	-	-	-	-	-	-	14.00	13.99
CA 41C-41C	LTE B41	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	40383	2569.3	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	-	14.00	13.99
CA 41C-41D	LTE B41	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	40083	2569.3	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	13.99	13.99
CA 41D-41C	LTE B41	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	40083	2569.3	LTE B41	20	40981	2589.1	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	13.98	13.99

Table 20
Output Powers – Ant WF5

Combination	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power			
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)			
CA 41A-41A (1)	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	-	14.44	14.50		
CA 41A-41C	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	-	14.50	14.50	
CA 41C-41A	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	14.49	14.50
CA 41A-41D	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	-	-	14.49	14.50
CA 41D-41A	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40046	2545.6	LTE B41	20	41490	2680	-	-	-	-	-	-	-	14.46	14.50
CA 41C-41C	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	-	-	14.49	14.50
CA 41C	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40046	2545.6	LTE B41	20	40344	2565.4	-	-	-	-	-	-	-	14.45	14.50
CA 41C-41D	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	14.48	14.50
CA 41D-41C	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40046	2545.6	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	14.49	14.50

1.3.11 LTE Band 41 PC2 as PCC

Table 21
Output Powers – Ant WF3

Combination	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power	
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 41A-41A (1)	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	-	13.96	14.00
CA 41A-41B	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	-	13.98	14.00
CA 41A-41D	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	-	13.99	14.00
CA 41D-41A	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40046	2545.6	LTE B41 PC2	20	41490	2680	-	-	-	-	-	13.97	14.00
CA 41C-41C	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	-	13.98	14.00
CA 41C-41E	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40046	2545.6	LTE B41 PC2	20	40344	2565.4	-	-	-	-	-	13.97	14.00
CA 41C-41D	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	14.00	14.00
CA 41D-41C	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40046	2545.6	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	13.99	14.00

Table 22
Output Powers – Ant WF5

Combination	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power	
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	With DL CA Power (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 41A-41A (1)	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	-	14.50	14.50
CA 41A-41C	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	-	14.50	14.50
CA 41A-41D	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	-	14.41	14.50
CA 41D-41A	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40046	2545.6	LTE B41 PC2	20	41490	2680	-	-	-	-	-	14.41	14.50
CA 41C-41C	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	-	14.49	14.50
CA 41C	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40046	2545.6	LTE B41 PC2	20	40344	2565.4	-	-	-	-	-	14.41	14.50
CA 41C-41D	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	14.48	14.50
CA 41D-41C	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40046	2545.6	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	14.49	14.50

1.4 Downlink Carrier Aggregation with CA_41C Uplink Carrier Aggregation enabled

This device supports uplink carrier aggregation (ULCA) with additional Carrier Aggregation configurations active in the downlink. Power measurements were performed with ULCA active and additional CA configurations active in the downlink for the configuration per Fall 2017 TCB Workshop Notes. Per FCC Guidance, additional SAR measurements for these configurations were not required since their maximum output power was not more than 0.25 dB higher than the maximum output power for with only ULCA active.

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1.4.1 DL Carrier Aggregation RF Conducted Powers

Table 23
Output Powers – Ant WF3

Combination	PCC						SCC1						SCC2				SCC3				SCC4				Power			
	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL# RB Offset	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL# RB Offset	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	ULCA Tx. Power with add'l CA configuration active in DL (dBm)	ULCA Tx. Power (dBm)					
CA 41C-41A	LTE B41	20	41490	2680	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	LTE B41	20	39750	2506	-	-	-	-	13.59	13.59				
CA 41D	LTE B41	20	41490	2680	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	LTE B41	20	41094	2640.4	-	-	-	-	13.53	13.59				
CA 41E	LTE B41	20	41490	2680	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	LTE B41	20	41094	2640.4	LTE B41	20	40896	2620.6	-	-	13.50	13.59		
CA 41C-41C	LTE B41	20	41490	2680	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	LTE B41	20	39948	2525.8	LTE B41	20	39750	2506	-	-	13.55	13.59		
CA 41D-41A	LTE B41	20	41490	2680	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	LTE B41	20	41094	2640.4	LTE B41	20	39750	2506	-	-	13.59	13.59		
CA 41C-41D	LTE B41	20	41490	2680	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	LTE B41	20	40146	2545.6	LTE B41	20	39948	2525.8	LTE B41	20	39750	2506	13.55	13.59
CA 41D-41C	LTE B41	20	41490	2680	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	LTE B41	20	41094	2640.4	LTE B41	20	39948	2525.8	LTE B41	20	39750	2506	13.58	13.59

Table 24
Output Powers – Ant WF5

Combination	PCC						SCC1						SCC2						SCC3						SCC4						Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL RB	SCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	ULCA Tx. Power with add'l CA configuration active in DL (dBm)	ULCA Tx. Power (dBm)				
CA 41C-41A	LTE B41	20	41490	2680	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	LTE B41	20	39750	2506									13.80	13.95				
CA 41D	LTE B41	20	41490	2680	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	LTE B41	20	41094	2640.4									13.89	13.95				
CA 41E	LTE B41	20	41490	2680	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	LTE B41	20	41094	2640.4	LTE B41	20	40896	2620.6					13.85	13.95				
CA 41C-41C	LTE B41	20	41490	2680	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	LTE B41	20	39948	2525.8	LTE B41	20	39750	2506					13.93	13.95				
CA 41D-41A	LTE B41	20	41490	2680	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	LTE B41	20	41094	2640.4	LTE B41	20	39750	2506					13.94	13.95				
CA 41C-41D	LTE B41	20	41490	2680	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	LTE B41	20	40146	2545.6	LTE B41	20	39948	2525.8	LTE B41	20	39750	2506	13.93	13.95				
CA 41D-41C	LTE B41	20	41490	2680	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	LTE B41	20	41094	2640.4	LTE B41	20	39948	2525.8	LTE B41	20	39750	2506	13.97	13.95				

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