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10541-AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	4.90	66.40	16.03	0.00	150.0	± 9.6 %
		Y	4.92	66.46	16.11		150.0	
		Z	4.89	66.39	16.04		150.0	
10542-AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.05	66.48	16.09	0.00	150.0	± 9.6 %
		Y	5.07	66.55	16.17		150.0	
		Z	5.04	66.48	16.10		150.0	
10543-AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.12	66.59	16.17	0.00	150.0	± 9.6 %
		Y	5.15	66.65	16.25		150.0	
		Z	5.12	66.59	16.19		150.0	
10544-AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.27	66.48	16.01	0.00	150.0	± 9.6 %
		Y	5.30	66.55	16.09		150.0	
		Z	5.27	66.47	16.03		150.0	
10545-AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.43	66.89	16.18	0.00	150.0	± 9.6 %
		Y	5.46	66.97	16.26		150.0	
		Z	5.43	66.89	16.20		150.0	
10546-AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.30	66.59	16.04	0.00	150.0	± 9.6 %
		Y	5.33	66.66	16.12		150.0	
		Z	5.30	66.57	16.05		150.0	
10547-AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.39	66.74	16.11	0.00	150.0	± 9.6 %
		Y	5.41	66.81	16.19		150.0	
		Z	5.39	66.75	16.14		150.0	
10548-AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.49	67.22	16.33	0.00	150.0	± 9.6 %
		Y	5.52	67.32	16.42		150.0	
		Z	5.48	67.21	16.34		150.0	
10550-AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.37	66.82	16.16	0.00	150.0	± 9.6 %
		Y	5.39	66.89	16.25		150.0	
		Z	5.37	66.84	16.20		150.0	
10551-AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.29	66.55	15.99	0.00	150.0	± 9.6 %
		Y	5.31	66.62	16.07		150.0	
		Z	5.28	66.52	16.01		150.0	
10552-AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.28	66.62	16.03	0.00	150.0	± 9.6 %
		Y	5.31	66.69	16.11		150.0	
		Z	5.28	66.61	16.05		150.0	
10553-AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.33	66.55	16.02	0.00	150.0	± 9.6 %
		Y	5.35	66.61	16.10		150.0	
		Z	5.32	66.53	16.04		150.0	
10554-AAA	IEEE 1602.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.70	66.81	16.09	0.00	150.0	± 9.6 %
		Y	5.73	66.87	16.16		150.0	
		Z	5.70	66.79	16.10		150.0	
10555-AAA	IEEE 1602.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.78	66.99	16.17	0.00	150.0	± 9.6 %
		Y	5.80	67.06	16.24		150.0	
		Z	5.78	66.97	16.18		150.0	
10556-AAA	IEEE 1602.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	5.82	67.12	16.22	0.00	150.0	± 9.6 %
		Y	5.85	67.19	16.30		150.0	
		Z	5.83	67.12	16.24		150.0	
10557-AAA	IEEE 1602.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.78	67.00	16.18	0.00	150.0	± 9.6 %
		Y	5.80	67.06	16.25		150.0	
		Z	5.78	66.98	16.19		150.0	



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10558-AAA	IEEE 1602.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	5.77	67.00	16.19	0.00	150.0	± 9.6 %
		Y	5.80	67.07	16.27		150.0	
		Z	5.76	66.96	16.20		150.0	
10560-AAA	IEEE 1602.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	5.80	66.97	16.21	0.00	150.0	± 9.6 %
		Y	5.83	67.03	16.29		150.0	
		Z	5.80	66.94	16.23		150.0	
10561-AAA	IEEE 1602.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.73	66.94	16.23	0.00	150.0	± 9.6 %
		Y	5.76	67.01	16.31		150.0	
		Z	5.73	66.92	16.25		150.0	
10562-AAA	IEEE 1602.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	5.77	67.07	16.30	0.00	150.0	± 9.6 %
		Y	5.80	67.15	16.38		150.0	
		Z	5.77	67.04	16.31		150.0	
10563-AAA	IEEE 1602.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	5.88	67.08	16.27	0.00	150.0	± 9.6 %
		Y	5.91	67.16	16.35		150.0	
		Z	5.88	67.06	16.28		150.0	
10564-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	X	4.62	66.91	16.26	0.46	150.0	± 9.6 %
		Y	4.65	67.00	16.37		150.0	
		Z	4.62	66.92	16.27		150.0	
10565-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	X	4.82	67.35	16.60	0.46	150.0	± 9.6 %
		Y	4.84	67.41	16.69		150.0	
		Z	4.81	67.36	16.62		150.0	
10566-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	X	4.65	67.13	16.38	0.46	150.0	± 9.6 %
		Y	4.68	67.22	16.48		150.0	
		Z	4.64	67.13	16.40		150.0	
10567-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	X	4.70	67.59	16.80	0.46	150.0	± 9.6 %
		Y	4.72	67.63	16.88		150.0	
		Z	4.69	67.60	16.83		150.0	
10568-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	X	4.52	66.74	16.04	0.46	150.0	± 9.6 %
		Y	4.56	66.86	16.17		150.0	
		Z	4.51	66.72	16.04		150.0	
10569-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	X	4.69	67.86	16.96	0.46	150.0	± 9.6 %
		Y	4.72	67.90	17.03		150.0	
		Z	4.69	67.89	17.00		150.0	
10570-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	X	4.68	67.60	16.83	0.46	150.0	± 9.6 %
		Y	4.71	67.65	16.91		150.0	
		Z	4.67	67.61	16.85		150.0	
10571-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.14	63.82	14.89	0.46	130.0	± 9.6 %
		Y	1.15	64.13	15.24		130.0	
		Z	1.12	63.61	14.84		130.0	
10572-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.14	64.32	15.21	0.46	130.0	± 9.6 %
		Y	1.16	64.65	15.58		130.0	
		Z	1.13	64.09	15.17		130.0	
10573-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	1.07	74.72	18.97	0.46	130.0	± 9.6 %
		Y	1.28	78.28	20.78		130.0	
		Z	0.96	73.37	18.65		130.0	
10574-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.18	68.96	17.73	0.46	130.0	± 9.6 %
		Y	1.21	69.63	18.27		130.0	
		Z	1.15	68.56	17.65		130.0	



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10575-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	X	4.39	66.58	16.17	0.46	130.0	± 9.6 %
		Y	4.42	66.67	16.29		130.0	
		Z	4.38	66.59	16.19		130.0	
10576-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	X	4.42	66.82	16.28	0.46	130.0	± 9.6 %
		Y	4.45	66.90	16.39		130.0	
		Z	4.41	66.83	16.31		130.0	
10577-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	X	4.57	67.04	16.43	0.46	130.0	± 9.6 %
		Y	4.60	67.12	16.53		130.0	
		Z	4.56	67.05	16.45		130.0	
10578-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	X	4.49	67.21	16.56	0.46	130.0	± 9.6 %
		Y	4.51	67.28	16.65		130.0	
		Z	4.48	67.22	16.59		130.0	
10579-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	X	4.22	66.25	15.71	0.46	130.0	± 9.6 %
		Y	4.25	66.38	15.85		130.0	
		Z	4.21	66.24	15.71		130.0	
10580-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	X	4.24	66.27	15.70	0.46	130.0	± 9.6 %
		Y	4.28	66.41	15.85		130.0	
		Z	4.23	66.24	15.70		130.0	
10581-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	X	4.40	67.30	16.54	0.46	130.0	± 9.6 %
		Y	4.43	67.38	16.64		130.0	
		Z	4.39	67.32	16.57		130.0	
10582-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	X	4.14	65.99	15.46	0.46	130.0	± 9.6 %
		Y	4.18	66.13	15.62		130.0	
		Z	4.12	65.96	15.46		130.0	
10583-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.39	66.58	16.17	0.46	130.0	± 9.6 %
		Y	4.42	66.67	16.29		130.0	
		Z	4.38	66.59	16.19		130.0	
10584-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.42	66.82	16.28	0.46	130.0	± 9.6 %
		Y	4.45	66.90	16.39		130.0	
		Z	4.41	66.83	16.31		130.0	
10585-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.57	67.04	16.43	0.46	130.0	± 9.6 %
		Y	4.60	67.12	16.53		130.0	
		Z	4.56	67.05	16.45		130.0	
10586-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.49	67.21	16.56	0.46	130.0	± 9.6 %
		Y	4.51	67.28	16.65		130.0	
		Z	4.48	67.22	16.59		130.0	
10587-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.22	66.25	15.71	0.46	130.0	± 9.6 %
		Y	4.25	66.38	15.85		130.0	
		Z	4.21	66.24	15.71		130.0	
10588-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.24	66.27	15.70	0.46	130.0	± 9.6 %
		Y	4.28	66.41	15.85		130.0	
		Z	4.23	66.24	15.70		130.0	
10589-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.40	67.30	16.54	0.46	130.0	± 9.6 %
		Y	4.43	67.38	16.64		130.0	
		Z	4.39	67.32	16.57		130.0	
10590-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.14	65.99	15.46	0.46	130.0	± 9.6 %
		Y	4.18	66.13	15.62		130.0	
		Z	4.12	65.96	15.46		130.0	





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10591-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.55	66.71	16.33	0.46	130.0	± 9.6 %
		Y	4.58	66.79	16.43		130.0	
		Z	4.54	66.72	16.35		130.0	
10592-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.66	66.97	16.44	0.46	130.0	± 9.6 %
		Y	4.68	67.05	16.55		130.0	
		Z	4.65	66.98	16.47		130.0	
10593-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.57	66.83	16.29	0.46	130.0	± 9.6 %
		Y	4.60	66.92	16.40		130.0	
		Z	4.56	66.84	16.31		130.0	
10594-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.63	67.03	16.47	0.46	130.0	± 9.6 %
		Y	4.66	67.11	16.57		130.0	
		Z	4.62	67.04	16.49		130.0	
10595-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.59	67.00	16.37	0.46	130.0	± 9.6 %
		Y	4.62	67.08	16.48		130.0	
		Z	4.58	67.00	16.39		130.0	
10596-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.52	66.92	16.34	0.46	130.0	± 9.6 %
		Y	4.55	67.02	16.46		130.0	
		Z	4.51	66.92	16.36		130.0	
10597-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.47	66.79	16.19	0.46	130.0	± 9.6 %
		Y	4.50	66.89	16.31		130.0	
		Z	4.46	66.78	16.20		130.0	
10598-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.48	67.08	16.50	0.46	130.0	± 9.6 %
		Y	4.51	67.15	16.60		130.0	
		Z	4.47	67.09	16.52		130.0	
10599-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.24	67.14	16.59	0.46	130.0	± 9.6 %
		Y	5.26	67.22	16.69		130.0	
		Z	5.24	67.17	16.63		130.0	
10600-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.31	67.40	16.69	0.46	130.0	± 9.6 %
		Y	5.34	67.51	16.81		130.0	
		Z	5.31	67.43	16.73		130.0	
10601-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.24	67.31	16.67	0.46	130.0	± 9.6 %
		Y	5.27	67.39	16.76		130.0	
		Z	5.25	67.36	16.72		130.0	
10602-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.30	67.20	16.52	0.46	130.0	± 9.6 %
		Y	5.33	67.30	16.63		130.0	
		Z	5.29	67.21	16.55		130.0	
10603-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.36	67.49	16.82	0.46	130.0	± 9.6 %
		Y	5.39	67.59	16.92		130.0	
		Z	5.35	67.49	16.85		130.0	
10604-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.23	67.04	16.56	0.46	130.0	± 9.6 %
		Y	5.26	67.13	16.66		130.0	
		Z	5.22	67.02	16.58		130.0	
10605-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.29	67.25	16.66	0.46	130.0	± 9.6 %
		Y	5.32	67.35	16.78		130.0	
		Z	5.29	67.26	16.69		130.0	
10606-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.11	66.78	16.27	0.46	130.0	± 9.6 %
		Y	5.14	66.88	16.39		130.0	
		Z	5.11	66.80	16.31		130.0	



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10607-AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.40	66.05	15.97	0.46	130.0	± 9.6 %
		Y	4.43	66.14	16.08		130.0	
		Z	4.39	66.06	16.00		130.0	
10608-AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.52	66.33	16.10	0.46	130.0	± 9.6 %
		Y	4.55	66.43	16.21		130.0	
		Z	4.51	66.34	16.13		130.0	
10609-AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.41	66.15	15.91	0.46	130.0	± 9.6 %
		Y	4.45	66.26	16.03		130.0	
		Z	4.40	66.16	15.93		130.0	
10610-AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.47	66.34	16.10	0.46	130.0	± 9.6 %
		Y	4.50	66.44	16.21		130.0	
		Z	4.46	66.36	16.12		130.0	
10611-AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.38	66.11	15.92	0.46	130.0	± 9.6 %
		Y	4.41	66.22	16.04		130.0	
		Z	4.37	66.12	15.94		130.0	
10612-AAA	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.35	66.19	15.93	0.46	130.0	± 9.6 %
		Y	4.39	66.31	16.06		130.0	
		Z	4.34	66.18	15.94		130.0	
10613-AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.35	66.00	15.77	0.46	130.0	± 9.6 %
		Y	4.39	66.13	15.90		130.0	
		Z	4.34	66.00	15.79		130.0	
10614-AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.34	66.30	16.07	0.46	130.0	± 9.6 %
		Y	4.37	66.40	16.18		130.0	
		Z	4.33	66.31	16.10		130.0	
10615-AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.36	65.90	15.65	0.46	130.0	± 9.6 %
		Y	4.40	66.04	15.79		130.0	
		Z	4.35	65.90	15.67		130.0	
10616-AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.03	66.30	16.16	0.46	130.0	± 9.6 %
		Y	5.06	66.38	16.26		130.0	
		Z	5.03	66.31	16.19		130.0	
10617-AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.05	66.37	16.17	0.46	130.0	± 9.6 %
		Y	5.09	66.47	16.28		130.0	
		Z	5.05	66.38	16.20		130.0	
10618-AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	4.97	66.45	16.23	0.46	130.0	± 9.6 %
		Y	5.00	66.54	16.33		130.0	
		Z	4.97	66.45	16.26		130.0	
10619-AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.00	66.32	16.09	0.46	130.0	± 9.6 %
		Y	5.04	66.42	16.20		130.0	
		Z	5.01	66.34	16.13		130.0	
10620-AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.06	66.27	16.11	0.46	130.0	± 9.6 %
		Y	5.09	66.36	16.22		130.0	
		Z	5.05	66.27	16.14		130.0	
10621-AAA	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.08	66.45	16.34	0.46	130.0	± 9.6 %
		Y	5.11	66.51	16.42		130.0	
		Z	5.08	66.46	16.37		130.0	
10622-AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.07	66.51	16.37	0.46	130.0	± 9.6 %
		Y	5.09	66.59	16.45		130.0	
		Z	5.06	66.52	16.40		130.0	



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10623-AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	4.96	66.07	15.99	0.46	130.0	± 9.6 %
		Y	4.99	66.16	16.09		130.0	
		Z	4.96	66.07	16.02		130.0	
10624-AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.15	66.33	16.19	0.46	130.0	± 9.6 %
		Y	5.18	66.41	16.29		130.0	
		Z	5.15	66.34	16.22		130.0	
10625-AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.25	66.51	16.35	0.46	130.0	± 9.6 %
		Y	5.27	66.57	16.43		130.0	
		Z	5.25	66.56	16.40		130.0	
10626-AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.37	66.32	16.12	0.46	130.0	± 9.6 %
		Y	5.40	66.40	16.21		130.0	
		Z	5.37	66.32	16.15		130.0	
10627-AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.58	66.89	16.38	0.46	130.0	± 9.6 %
		Y	5.61	66.98	16.48		130.0	
		Z	5.58	66.90	16.42		130.0	
10628-AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.35	66.26	15.99	0.46	130.0	± 9.6 %
		Y	5.38	66.35	16.09		130.0	
		Z	5.35	66.25	16.01		130.0	
10629-AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.47	66.50	16.11	0.46	130.0	± 9.6 %
		Y	5.50	66.59	16.21		130.0	
		Z	5.48	66.54	16.15		130.0	
10630-AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	5.62	67.17	16.45	0.46	130.0	± 9.6 %
		Y	5.67	67.30	16.57		130.0	
		Z	5.62	67.15	16.47		130.0	
10631-AAA	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.65	67.38	16.76	0.46	130.0	± 9.6 %
		Y	5.68	67.44	16.84		130.0	
		Z	5.65	67.38	16.79		130.0	
10632-AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.61	67.17	16.67	0.46	130.0	± 9.6 %
		Y	5.63	67.23	16.75		130.0	
		Z	5.62	67.22	16.73		130.0	
10633-AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.38	66.36	16.08	0.46	130.0	± 9.6 %
		Y	5.41	66.43	16.17		130.0	
		Z	5.37	66.34	16.10		130.0	
10634-AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.42	66.59	16.25	0.46	130.0	± 9.6 %
		Y	5.45	66.66	16.34		130.0	
		Z	5.42	66.59	16.28		130.0	
10635-AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.25	65.74	15.52	0.46	130.0	± 9.6 %
		Y	5.29	65.85	15.64		130.0	
		Z	5.25	65.72	15.54		130.0	
10636-AAA	IEEE 1602.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	5.81	66.67	16.21	0.46	130.0	± 9.6 %
		Y	5.84	66.74	16.30		130.0	
		Z	5.82	66.67	16.24		130.0	
10637-AAA	IEEE 1602.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	5.91	66.92	16.32	0.46	130.0	± 9.6 %
		Y	5.94	67.00	16.42		130.0	
		Z	5.91	66.92	16.35		130.0	
10638-AAA	IEEE 1602.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	5.95	67.05	16.36	0.46	130.0	± 9.6 %
		Y	5.98	67.13	16.46		130.0	
		Z	5.96	67.06	16.40		130.0	





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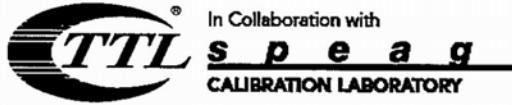
June 27, 2017

10639-AAA	IEEE 1602.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	5.90	66.89	16.33	0.46	130.0	± 9.6 %
		Y	5.93	66.97	16.42		130.0	
		Z	5.90	66.89	16.36		130.0	
10640-AAA	IEEE 1602.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	5.83	66.70	16.17	0.46	130.0	± 9.6 %
		Y	5.86	66.79	16.27		130.0	
		Z	5.83	66.67	16.19		130.0	
10641-AAA	IEEE 1602.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	5.95	66.83	16.26	0.46	130.0	± 9.6 %
		Y	5.98	66.93	16.36		130.0	
		Z	5.95	66.84	16.29		130.0	
10642-AAA	IEEE 1602.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	5.98	67.06	16.55	0.46	130.0	± 9.6 %
		Y	6.00	67.13	16.63		130.0	
		Z	5.98	67.06	16.58		130.0	
10643-AAA	IEEE 1602.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	5.81	66.70	16.25	0.46	130.0	± 9.6 %
		Y	5.84	66.79	16.35		130.0	
		Z	5.81	66.69	16.27		130.0	
10644-AAA	IEEE 1602.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	5.86	66.86	16.35	0.46	130.0	± 9.6 %
		Y	5.89	66.95	16.45		130.0	
		Z	5.86	66.84	16.37		130.0	
10645-AAA	IEEE 1602.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	5.99	66.94	16.36	0.46	130.0	± 9.6 %
		Y	6.02	67.02	16.45		130.0	
		Z	6.00	66.95	16.39		130.0	
10646-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	6.69	86.81	28.67	9.30	60.0	± 9.6 %
		Y	7.72	91.33	30.89		60.0	
		Z	5.52	83.14	27.53		60.0	
10647-AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	5.99	84.97	28.10	9.30	60.0	± 9.6 %
		Y	6.77	88.96	30.17		60.0	
		Z	4.99	81.44	26.98		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	0.51	61.86	8.44	0.00	150.0	± 9.6 %
		Y	0.54	62.46	8.97		150.0	
		Z	0.50	61.70	8.25		150.0	

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



# ANNEX E: D5GHzV2 Dipole Calibration Certificate



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CALIBRATION LABORATORY



中国认可  
国际互认  
校准  
CALIBRATION  
CNAS L0570

Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China  
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504  
E-mail: cttl@chinattl.com http://www.chinattl.cn

Client **TA(Shanghai)**

Certificate No: **Z17-97001**

## CALIBRATION CERTIFICATE

Object **D5GHzV2 - SN: 1151**

Calibration Procedure(s) **FD-Z11-003-01**  
**Calibration Procedures for dipole validation kits**

Calibration date: **January 5, 2017**

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(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	101919	27-Jun-16 (CTTL, No.J16X04777)	Jun-17
Power sensor NRP-Z91	101547	27-Jun-16 (CTTL, No.J16X04777)	Jun-17
ReferenceProbe EX3DV4	SN 7433	26-Sep-16(SPEAG,No.EX3-7433_Sep16)	Sep-17
DAE4	SN 771	02-Feb-16(CTTL-SPEAG,No.Z16-97011)	Feb-17
Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	01-Feb-16 (CTTL, No.J16X00893)	Jan-17
NetworkAnalyzer E5071C	MY46110673	26-Jan-16 (CTTL, No.J16X00894)	Jan-17

	Name	Function	Signature
Calibrated by:	Zhao Jing	SAR Test Engineer	
Reviewed by:	Qi Dianyuan	SAR Project Leader	
Approved by:	Lu Bingsong	Deputy Director of the laboratory	

Issued: January 7, 2017

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.





In Collaboration with  
**s p e a g**  
CALIBRATION LABORATORY

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E-mail: cttl@chinattl.com http://www.chinattl.cn

**Glossary:**

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM <sub>x,y,z</sub>
N/A	not applicable or not measured

**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, "Procedure to measure the Specific Absorption Rate (SAR) For hand-held devices used in close proximity to the ear (frequency range of 300MHz to 3GHz)", February 2005
- IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

**Additional Documentation:**

- DASY4/5 System Handbook

**Methods Applied and Interpretation of Parameters:**

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

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%.