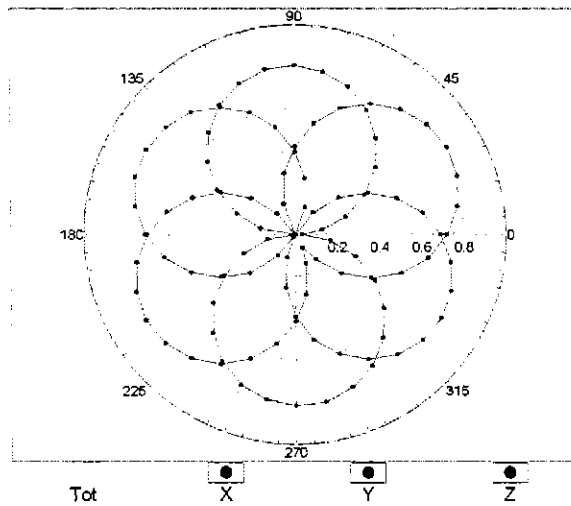
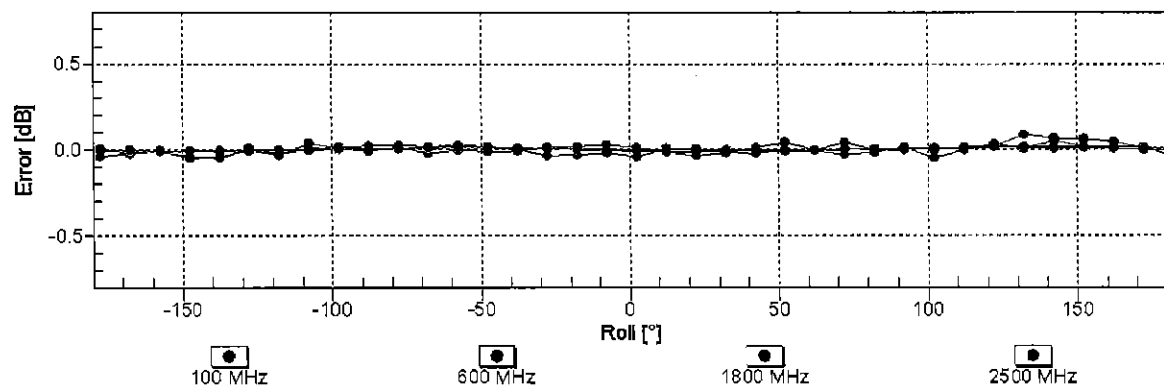
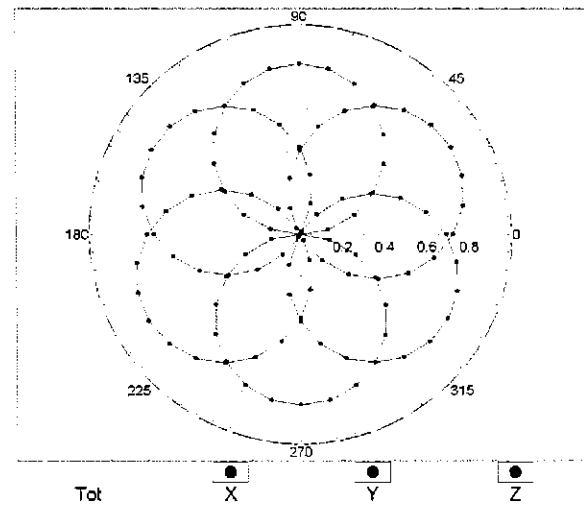


Receiving Pattern (ϕ), $\theta = 0^\circ$

f=600 MHz,TEM

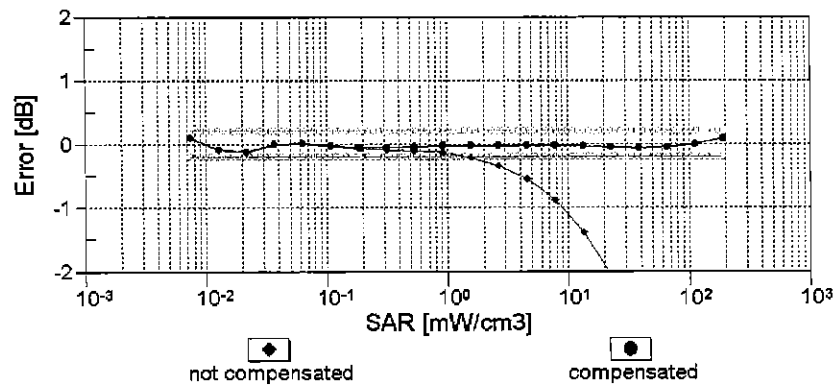
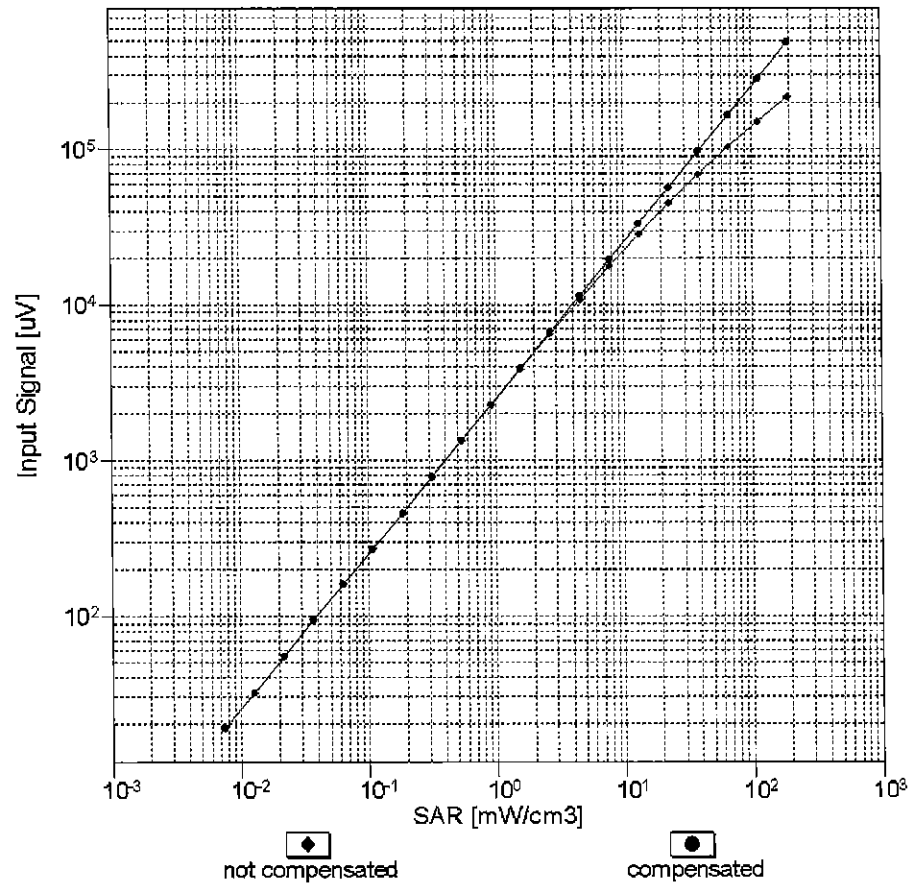


f=1800 MHz,R22



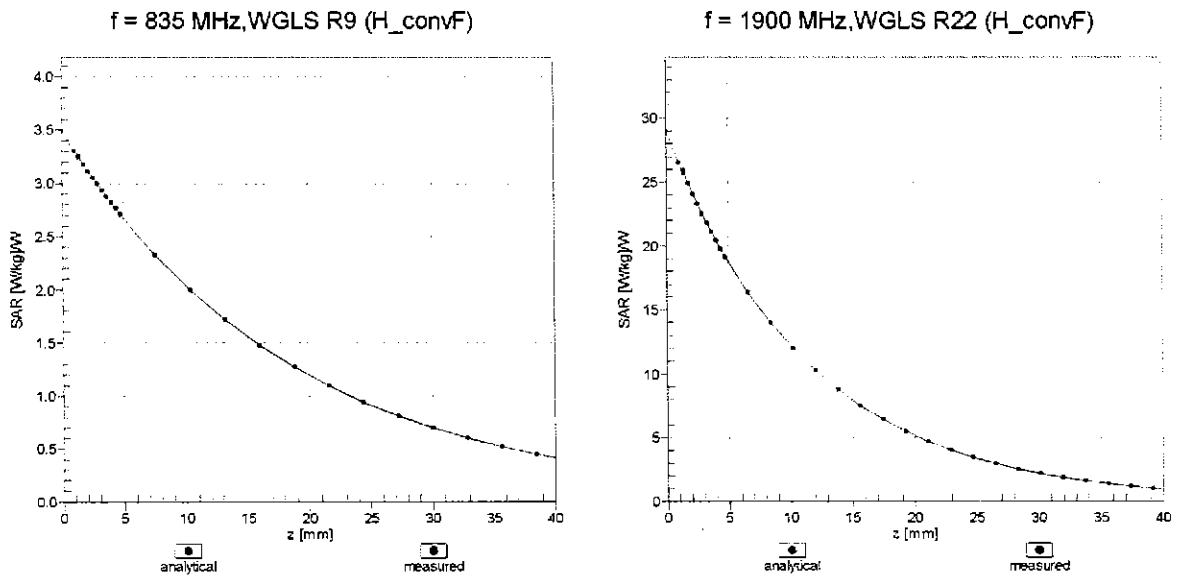
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell , $f_{\text{eval}} = 1900 \text{ MHz}$)



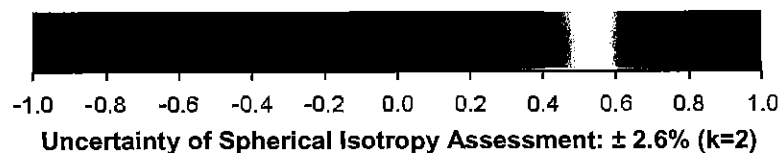
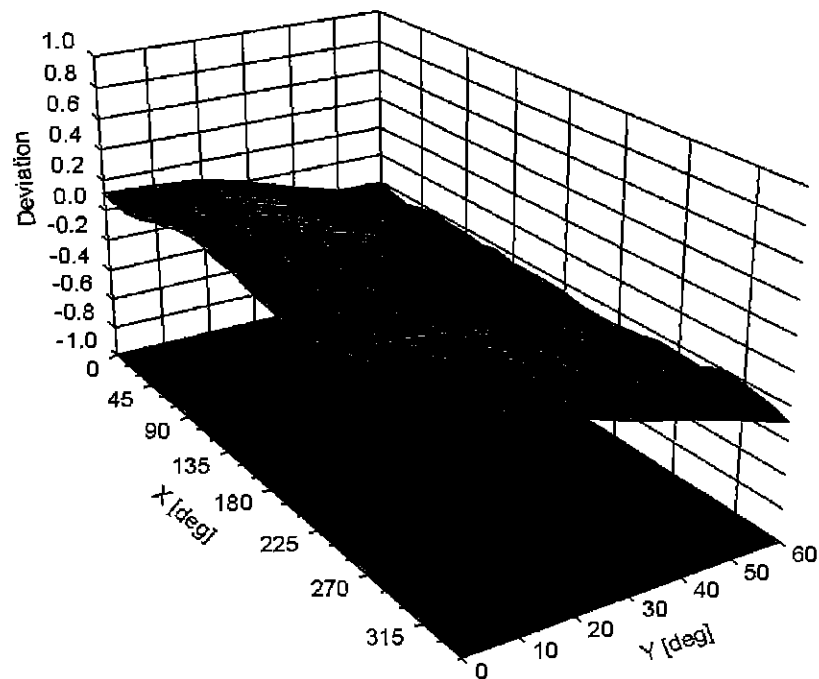
Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ), $f = 900 \text{ MHz}$



DASY/EASY - Parameters of Probe: EX3DV4 - SN:3914

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	132.3
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 μ V	C	D dB	VR mV	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	157.3	$\pm 3.5 \%$
		Y	0.00	0.00	1.00		143.4	
		Z	0.00	0.00	1.00		153.1	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	2.02	63.97	9.10	10.00	20.0	$\pm 9.6 \%$
		Y	2.59	66.85	10.84		20.0	
		Z	2.31	65.14	9.98		20.0	
10011- CAB	UMTS-FDD (WCDMA)	X	0.89	66.39	14.20	0.00	150.0	$\pm 9.6 \%$
		Y	1.06	68.74	16.01		150.0	
		Z	0.90	66.80	14.44		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.06	63.38	14.79	0.41	150.0	$\pm 9.6 \%$
		Y	1.17	64.37	15.54		150.0	
		Z	1.07	63.61	14.94		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	X	4.75	66.53	16.97	1.46	150.0	$\pm 9.6 \%$
		Y	4.80	66.78	17.02		150.0	
		Z	4.73	66.65	17.01		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	100.00	110.09	25.45	9.39	50.0	$\pm 9.6 \%$
		Y	100.00	112.00	26.43		50.0	
		Z	100.00	111.93	26.50		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	109.83	25.39	9.57	50.0	$\pm 9.6 \%$
		Y	100.00	111.69	26.33		50.0	
		Z	100.00	111.63	26.42		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	107.43	23.14	6.56	60.0	$\pm 9.6 \%$
		Y	100.00	110.61	24.77		60.0	
		Z	100.00	109.57	24.26		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	4.03	68.96	25.05	12.57	50.0	$\pm 9.6 \%$
		Y	5.30	77.15	29.41		50.0	
		Z	4.06	68.52	24.65		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	8.87	91.28	32.17	9.56	60.0	$\pm 9.6 \%$
		Y	10.08	94.25	33.27		60.0	
		Z	8.65	90.32	31.77		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	105.82	21.66	4.80	80.0	$\pm 9.6 \%$
		Y	100.00	111.09	24.24		80.0	
		Z	100.00	108.42	22.93		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	104.11	20.26	3.55	100.0	$\pm 9.6 \%$
		Y	100.00	112.84	24.34		100.0	
		Z	100.00	107.37	21.76		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	5.57	80.93	27.02	7.80	80.0	$\pm 9.6 \%$
		Y	6.11	82.68	27.69		80.0	
		Z	5.53	80.55	26.85		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	104.99	21.59	5.30	70.0	$\pm 9.6 \%$
		Y	100.00	109.04	23.62		70.0	
		Z	100.00	107.17	22.68		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	0.46	62.47	6.17	1.88	100.0	$\pm 9.6 \%$
		Y	100.00	111.97	22.67		100.0	
		Z	100.00	95.35	15.52		100.0	

10032-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	0.19	60.00	3.78	1.17	100.0	± 9.6 %
		Y	100.00	120.03	24.95		100.0	
		Z	0.19	60.00	4.15		100.0	
10033-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	13.55	95.45	24.90	5.30	70.0	± 9.6 %
		Y	18.76	100.49	26.60		70.0	
		Z	13.36	94.67	24.55		70.0	
10034-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	2.70	75.51	16.71	1.88	100.0	± 9.6 %
		Y	4.49	82.47	19.70		100.0	
		Z	2.90	76.09	16.70		100.0	
10035-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	1.71	70.85	14.56	1.17	100.0	± 9.6 %
		Y	2.70	76.95	17.56		100.0	
		Z	1.78	71.24	14.48		100.0	
10036-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	22.62	103.29	27.18	5.30	70.0	± 9.6 %
		Y	32.35	108.98	28.96		70.0	
		Z	21.86	102.15	26.73		70.0	
10037-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	2.48	74.51	16.30	1.88	100.0	± 9.6 %
		Y	3.96	80.90	19.14		100.0	
		Z	2.61	74.90	16.23		100.0	
10038-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	1.74	71.34	14.88	1.17	100.0	± 9.6 %
		Y	2.75	77.52	17.90		100.0	
		Z	1.82	71.77	14.82		100.0	
10039-CAB	CDMA2000 (1xRTT, RC1)	X	1.34	68.49	13.13	0.00	150.0	± 9.6 %
		Y	2.27	75.66	16.89		150.0	
		Z	1.29	68.35	12.80		150.0	
10042-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	X	34.99	94.66	19.93	7.78	50.0	± 9.6 %
		Y	100.00	108.11	23.89		50.0	
		Z	100.00	107.01	23.40		50.0	
10044-CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.17	126.30	3.13	0.00	150.0	± 9.6 %
		Y	0.00	107.81	5.46		150.0	
		Z	0.15	126.17	2.27		150.0	
10048-CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	10.11	79.88	18.52	13.80	25.0	± 9.6 %
		Y	23.48	91.75	22.45		25.0	
		Z	12.25	82.71	19.92		25.0	
10049-CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	11.72	83.69	18.67	10.79	40.0	± 9.6 %
		Y	40.84	100.05	23.71		40.0	
		Z	15.78	87.97	20.48		40.0	
10056-CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	18.86	95.31	25.05	9.03	50.0	± 9.6 %
		Y	26.98	101.35	27.04		50.0	
		Z	17.19	93.67	24.60		50.0	
10058-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	4.30	76.01	24.21	6.55	100.0	± 9.6 %
		Y	4.66	77.31	24.71		100.0	
		Z	4.30	75.85	24.15		100.0	
10059-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.10	64.51	15.41	0.61	110.0	± 9.6 %
		Y	1.22	65.59	16.19		110.0	
		Z	1.11	64.78	15.58		110.0	
10060-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	40.70	121.16	30.62	1.30	110.0	± 9.6 %
		Y	100.00	138.01	35.59		110.0	
		Z	76.47	130.66	32.92		110.0	

10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	2.97	81.68	22.34	2.04	110.0	± 9.6 %
		Y	3.52	84.01	23.42		110.0	
		Z	3.16	82.63	22.73		110.0	
10062-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.54	66.50	16.38	0.49	100.0	± 9.6 %
		Y	4.60	66.81	16.49		100.0	
		Z	4.51	66.59	16.41		100.0	
10063-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.56	66.59	16.48	0.72	100.0	± 9.6 %
		Y	4.62	66.89	16.58		100.0	
		Z	4.53	66.70	16.52		100.0	
10064-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.84	66.85	16.71	0.86	100.0	± 9.6 %
		Y	4.89	67.12	16.79		100.0	
		Z	4.80	66.93	16.74		100.0	
10065-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.71	66.74	16.80	1.21	100.0	± 9.6 %
		Y	4.76	67.01	16.87		100.0	
		Z	4.67	66.83	16.83		100.0	
10066-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.72	66.77	16.97	1.46	100.0	± 9.6 %
		Y	4.77	67.02	17.03		100.0	
		Z	4.69	66.86	17.00		100.0	
10067-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.02	66.97	17.43	2.04	100.0	± 9.6 %
		Y	5.06	67.18	17.45		100.0	
		Z	4.99	67.10	17.47		100.0	
10068-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.06	66.99	17.64	2.55	100.0	± 9.6 %
		Y	5.10	67.19	17.65		100.0	
		Z	5.03	67.09	17.67		100.0	
10069-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.14	67.01	17.83	2.67	100.0	± 9.6 %
		Y	5.18	67.19	17.83		100.0	
		Z	5.11	67.11	17.86		100.0	
10071-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.84	66.62	17.27	1.99	100.0	± 9.6 %
		Y	4.89	66.85	17.31		100.0	
		Z	4.83	66.75	17.32		100.0	
10072-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.82	66.93	17.48	2.30	100.0	± 9.6 %
		Y	4.86	67.16	17.51		100.0	
		Z	4.80	67.06	17.53		100.0	
10073-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	4.88	67.11	17.81	2.83	100.0	± 9.6 %
		Y	4.92	67.32	17.83		100.0	
		Z	4.87	67.25	17.87		100.0	
10074-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.87	67.01	17.95	3.30	100.0	± 9.6 %
		Y	4.91	67.22	17.97		100.0	
		Z	4.87	67.19	18.02		100.0	
10075-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	4.90	67.11	18.25	3.82	90.0	± 9.6 %
		Y	4.95	67.32	18.26		90.0	
		Z	4.91	67.27	18.31		90.0	
10076-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	4.92	66.92	18.38	4.15	90.0	± 9.6 %
		Y	4.97	67.13	18.38		90.0	
		Z	4.94	67.11	18.46		90.0	
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	4.95	66.99	18.48	4.30	90.0	± 9.6 %
		Y	5.00	67.21	18.49		90.0	
		Z	4.97	67.20	18.56		90.0	

10081-CAB	CDMA2000 (1xRTT, RC3)	X	0.61	63.26	9.90	0.00	150.0	± 9.6 %
		Y	0.87	67.43	13.01		150.0	
		Z	0.58	63.10	9.56		150.0	
10082-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	X	2.50	65.17	5.97	4.77	80.0	± 9.6 %
		Y	0.75	60.00	4.55		80.0	
		Z	0.72	60.00	4.31		80.0	
10090-DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	107.54	23.21	6.56	60.0	± 9.6 %
		Y	100.00	110.64	24.80		60.0	
		Z	100.00	109.67	24.33		60.0	
10097-CAB	UMTS-FDD (HSDPA)	X	1.69	67.19	15.08	0.00	150.0	± 9.6 %
		Y	1.88	68.79	16.18		150.0	
		Z	1.71	67.59	15.23		150.0	
10098-CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.65	67.13	15.04	0.00	150.0	± 9.6 %
		Y	1.84	68.75	16.15		150.0	
		Z	1.67	67.53	15.19		150.0	
10099-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	8.93	91.41	32.21	9.56	60.0	± 9.6 %
		Y	10.16	94.39	33.31		60.0	
		Z	8.70	90.44	31.80		60.0	
10100-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	2.94	69.72	16.26	0.00	150.0	± 9.6 %
		Y	3.18	71.08	17.07		150.0	
		Z	2.94	69.89	16.39		150.0	
10101-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.09	67.13	15.64	0.00	150.0	± 9.6 %
		Y	3.21	67.85	16.08		150.0	
		Z	3.07	67.21	15.70		150.0	
10102-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.20	67.14	15.76	0.00	150.0	± 9.6 %
		Y	3.32	67.82	16.17		150.0	
		Z	3.18	67.23	15.82		150.0	
10103-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	5.93	75.11	20.17	3.98	65.0	± 9.6 %
		Y	6.63	76.82	20.78		65.0	
		Z	5.91	75.14	20.21		65.0	
10104-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	5.89	73.03	20.08	3.98	65.0	± 9.6 %
		Y	6.25	73.91	20.36		65.0	
		Z	5.90	73.09	20.11		65.0	
10105-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	5.51	71.58	19.75	3.98	65.0	± 9.6 %
		Y	6.10	73.31	20.41		65.0	
		Z	5.86	72.81	20.30		65.0	
10108-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.55	69.01	16.09	0.00	150.0	± 9.6 %
		Y	2.75	70.30	16.89		150.0	
		Z	2.54	69.20	16.22		150.0	
10109-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.74	66.99	15.50	0.00	150.0	± 9.6 %
		Y	2.87	67.79	16.01		150.0	
		Z	2.72	67.11	15.56		150.0	
10110-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.04	68.09	15.59	0.00	150.0	± 9.6 %
		Y	2.23	69.47	16.51		150.0	
		Z	2.03	68.32	15.72		150.0	
10111-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.46	67.87	15.72	0.00	150.0	± 9.6 %
		Y	2.64	69.03	16.47		150.0	
		Z	2.45	68.15	15.81		150.0	

10112-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	2.87	67.02	15.59	0.00	150.0	± 9.6 %
		Y	3.00	67.79	16.07		150.0	
		Z	2.85	67.16	15.65		150.0	
10113-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.61	68.07	15.89	0.00	150.0	± 9.6 %
		Y	2.79	69.17	16.59		150.0	
		Z	2.61	68.36	15.98		150.0	
10114-CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.01	67.03	16.34	0.00	150.0	± 9.6 %
		Y	5.06	67.33	16.45		150.0	
		Z	4.97	67.05	16.35		150.0	
10115-CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.27	67.10	16.38	0.00	150.0	± 9.6 %
		Y	5.32	67.38	16.48		150.0	
		Z	5.22	67.11	16.39		150.0	
10116-CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.09	67.20	16.35	0.00	150.0	± 9.6 %
		Y	5.14	67.50	16.46		150.0	
		Z	5.06	67.23	16.37		150.0	
10117-CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	4.97	66.87	16.27	0.00	150.0	± 9.6 %
		Y	5.03	67.20	16.40		150.0	
		Z	4.94	66.93	16.31		150.0	
10118-CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.35	67.31	16.50	0.00	150.0	± 9.6 %
		Y	5.39	67.55	16.57		150.0	
		Z	5.30	67.32	16.50		150.0	
10119-CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.08	67.16	16.34	0.00	150.0	± 9.6 %
		Y	5.12	67.45	16.45		150.0	
		Z	5.04	67.20	16.36		150.0	
10140-CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.23	67.13	15.67	0.00	150.0	± 9.6 %
		Y	3.35	67.82	16.08		150.0	
		Z	3.21	67.22	15.73		150.0	
10141-CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.36	67.28	15.87	0.00	150.0	± 9.6 %
		Y	3.48	67.94	16.26		150.0	
		Z	3.34	67.38	15.93		150.0	
10142-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	1.80	67.92	15.04	0.00	150.0	± 9.6 %
		Y	2.02	69.71	16.23		150.0	
		Z	1.78	68.19	15.11		150.0	
10143-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.28	68.33	15.13	0.00	150.0	± 9.6 %
		Y	2.56	70.16	16.27		150.0	
		Z	2.27	68.61	15.13		150.0	
10144-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.03	65.81	13.36	0.00	150.0	± 9.6 %
		Y	2.22	67.14	14.29		150.0	
		Z	1.98	65.83	13.22		150.0	
10145-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	0.92	62.55	9.46	0.00	150.0	± 9.6 %
		Y	1.17	65.32	11.54		150.0	
		Z	0.84	61.98	8.80		150.0	
10146-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	1.39	62.93	9.23	0.00	150.0	± 9.6 %
		Y	1.99	66.57	11.19		150.0	
		Z	1.31	62.53	8.72		150.0	
10147-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	1.52	63.83	9.83	0.00	150.0	± 9.6 %
		Y	2.52	69.22	12.51		150.0	
		Z	1.42	63.36	9.28		150.0	

10149-CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.75	67.05	15.55	0.00	150.0	± 9.6 %
		Y	2.88	67.86	16.07		150.0	
		Z	2.73	67.18	15.62		150.0	
10150-CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	2.88	67.08	15.63	0.00	150.0	± 9.6 %
		Y	3.01	67.85	16.12		150.0	
		Z	2.86	67.22	15.70		150.0	
10151-CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	6.32	77.90	21.36	3.98	65.0	± 9.6 %
		Y	6.91	79.14	21.77		65.0	
		Z	6.41	78.22	21.50		65.0	
10152-CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	5.42	72.95	19.71	3.98	65.0	± 9.6 %
		Y	5.78	73.88	20.03		65.0	
		Z	5.43	73.04	19.72		65.0	
10153-CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	5.81	74.06	20.59	3.98	65.0	± 9.6 %
		Y	6.20	74.97	20.87		65.0	
		Z	5.84	74.21	20.62		65.0	
10154-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.09	68.53	15.87	0.00	150.0	± 9.6 %
		Y	2.29	69.96	16.81		150.0	
		Z	2.08	68.78	15.99		150.0	
10155-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.46	67.89	15.74	0.00	150.0	± 9.6 %
		Y	2.64	69.05	16.49		150.0	
		Z	2.46	68.18	15.84		150.0	
10156-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.63	67.76	14.61	0.00	150.0	± 9.6 %
		Y	1.89	69.98	16.07		150.0	
		Z	1.61	67.98	14.81		150.0	
10157-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	1.84	66.10	13.16	0.00	150.0	± 9.6 %
		Y	2.08	67.93	14.40		150.0	
		Z	1.79	66.07	12.96		150.0	
10158-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.62	68.14	15.95	0.00	150.0	± 9.6 %
		Y	2.80	69.25	16.65		150.0	
		Z	2.62	68.44	16.04		150.0	
10159-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	1.94	66.53	13.44	0.00	150.0	± 9.6 %
		Y	2.21	68.50	14.73		150.0	
		Z	1.88	66.49	13.23		150.0	
10160-CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.59	68.31	15.97	0.00	150.0	± 9.6 %
		Y	2.73	69.19	16.57		150.0	
		Z	2.58	68.51	16.08		150.0	
10161-CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.77	67.03	15.54	0.00	150.0	± 9.6 %
		Y	2.91	67.84	16.05		150.0	
		Z	2.75	67.18	15.60		150.0	
10162-CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	2.88	67.21	15.67	0.00	150.0	± 9.6 %
		Y	3.02	68.01	16.17		150.0	
		Z	2.86	67.38	15.74		150.0	
10166-CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.37	69.04	18.77	3.01	150.0	± 9.6 %
		Y	3.72	71.09	19.82		150.0	
		Z	3.38	69.53	19.11		150.0	
10167-CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	4.04	71.49	19.00	3.01	150.0	± 9.6 %
		Y	5.05	75.77	20.88		150.0	
		Z	4.12	72.30	19.44		150.0	

10168-CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	4.56	74.09	20.53	3.01	150.0	± 9.6 %
		Y	5.99	79.40	22.74		150.0	
		Z	4.72	75.27	21.13		150.0	
10169-CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	2.74	67.94	18.26	3.01	150.0	± 9.6 %
		Y	3.25	71.55	20.05		150.0	
		Z	2.77	68.38	18.59		150.0	
10170-CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	3.65	73.29	20.42	3.01	150.0	± 9.6 %
		Y	6.00	83.03	24.31		150.0	
		Z	3.81	74.44	21.04		150.0	
10171-AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	2.98	69.09	17.51	3.01	150.0	± 9.6 %
		Y	4.17	75.40	20.24		150.0	
		Z	3.05	69.77	17.92		150.0	
10172-CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	6.26	85.95	26.48	6.02	65.0	± 9.6 %
		Y	13.49	101.43	31.66		65.0	
		Z	6.07	85.72	26.58		65.0	
10173-CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	11.36	93.09	26.93	6.02	65.0	± 9.6 %
		Y	61.90	122.46	34.86		65.0	
		Z	13.00	96.00	28.02		65.0	
10174-CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	8.36	86.77	24.30	6.02	65.0	± 9.6 %
		Y	35.10	110.72	31.17		65.0	
		Z	8.86	88.32	24.99		65.0	
10175-CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	2.71	67.63	18.00	3.01	150.0	± 9.6 %
		Y	3.19	71.11	19.75		150.0	
		Z	2.74	68.04	18.32		150.0	
10176-CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	3.66	73.32	20.43	3.01	150.0	± 9.6 %
		Y	6.01	83.07	24.33		150.0	
		Z	3.81	74.46	21.05		150.0	
10177-CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	2.73	67.78	18.10	3.01	150.0	± 9.6 %
		Y	3.23	71.31	19.86		150.0	
		Z	2.76	68.20	18.41		150.0	
10178-CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	3.63	73.10	20.31	3.01	150.0	± 9.6 %
		Y	5.90	82.67	24.15		150.0	
		Z	3.78	74.24	20.93		150.0	
10179-CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	3.28	71.01	18.80	3.01	150.0	± 9.6 %
		Y	4.94	78.87	22.07		150.0	
		Z	3.38	71.91	19.31		150.0	
10180-CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	2.98	69.03	17.47	3.01	150.0	± 9.6 %
		Y	4.15	75.28	20.17		150.0	
		Z	3.04	69.71	17.88		150.0	
10181-CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	2.73	67.76	18.09	3.01	150.0	± 9.6 %
		Y	3.22	71.29	19.85		150.0	
		Z	2.75	68.18	18.41		150.0	
10182-CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	3.62	73.08	20.30	3.01	150.0	± 9.6 %
		Y	5.88	82.63	24.13		150.0	
		Z	3.77	74.21	20.92		150.0	
10183-AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	2.97	69.01	17.46	3.01	150.0	± 9.6 %
		Y	4.14	75.24	20.16		150.0	
		Z	3.04	69.68	17.87		150.0	

10184-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	2.74	67.80	18.11	3.01	150.0	± 9.6 %
		Y	3.24	71.35	19.88		150.0	
		Z	2.77	68.22	18.43		150.0	
10185-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	3.64	73.15	20.34	3.01	150.0	± 9.6 %
		Y	5.93	82.75	24.19		150.0	
		Z	3.79	74.29	20.96		150.0	
10186-AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	2.99	69.07	17.49	3.01	150.0	± 9.6 %
		Y	4.16	75.34	20.20		150.0	
		Z	3.05	69.75	17.90		150.0	
10187-CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	2.75	67.86	18.18	3.01	150.0	± 9.6 %
		Y	3.25	71.43	19.96		150.0	
		Z	2.78	68.29	18.51		150.0	
10188-CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	3.76	73.83	20.74	3.01	150.0	± 9.6 %
		Y	6.30	84.02	24.77		150.0	
		Z	3.92	75.04	21.38		150.0	
10189-AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	3.05	69.47	17.77	3.01	150.0	± 9.6 %
		Y	4.32	76.05	20.59		150.0	
		Z	3.12	70.18	18.19		150.0	
10193-CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.39	66.44	16.00	0.00	150.0	± 9.6 %
		Y	4.46	66.83	16.18		150.0	
		Z	4.36	66.53	16.02		150.0	
10194-CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.55	66.74	16.13	0.00	150.0	± 9.6 %
		Y	4.63	67.12	16.30		150.0	
		Z	4.51	66.81	16.16		150.0	
10195-CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.59	66.77	16.15	0.00	150.0	± 9.6 %
		Y	4.67	67.15	16.32		150.0	
		Z	4.55	66.84	16.18		150.0	
10196-CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.39	66.48	16.01	0.00	150.0	± 9.6 %
		Y	4.46	66.87	16.19		150.0	
		Z	4.35	66.57	16.03		150.0	
10197-CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.56	66.75	16.14	0.00	150.0	± 9.6 %
		Y	4.64	67.14	16.31		150.0	
		Z	4.53	66.83	16.17		150.0	
10198-CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.59	66.78	16.16	0.00	150.0	± 9.6 %
		Y	4.67	67.16	16.33		150.0	
		Z	4.55	66.85	16.19		150.0	
10219-CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.34	66.50	15.97	0.00	150.0	± 9.6 %
		Y	4.41	66.90	16.15		150.0	
		Z	4.30	66.59	15.99		150.0	
10220-CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.56	66.72	16.13	0.00	150.0	± 9.6 %
		Y	4.63	67.10	16.30		150.0	
		Z	4.52	66.79	16.15		150.0	
10221-CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.60	66.71	16.14	0.00	150.0	± 9.6 %
		Y	4.67	67.09	16.31		150.0	
		Z	4.56	66.79	16.17		150.0	
10222-CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	4.94	66.87	16.27	0.00	150.0	± 9.6 %
		Y	5.00	67.20	16.40		150.0	
		Z	4.91	66.93	16.30		150.0	

10223-CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.26	67.15	16.43	0.00	150.0	± 9.6 %
		Y	5.29	67.39	16.51		150.0	
		Z	5.21	67.16	16.44		150.0	
10224-CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	4.98	66.98	16.25	0.00	150.0	± 9.6 %
		Y	5.05	67.32	16.38		150.0	
		Z	4.95	67.03	16.28		150.0	
10225-CAB	UMTS-FDD (HSPA+)	X	2.65	65.82	14.94	0.00	150.0	± 9.6 %
		Y	2.77	66.54	15.42		150.0	
		Z	2.63	65.96	14.93		150.0	
10226-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	12.29	94.61	27.52	6.02	65.0	± 9.6 %
		Y	76.74	126.49	35.96		65.0	
		Z	14.23	97.75	28.67		65.0	
10227-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	11.60	92.16	26.09	6.02	65.0	± 9.6 %
		Y	58.51	119.10	33.33		65.0	
		Z	13.58	95.42	27.28		65.0	
10228-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	8.07	91.29	28.44	6.02	65.0	± 9.6 %
		Y	14.98	103.75	32.45		65.0	
		Z	8.37	92.43	29.01		65.0	
10229-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	11.46	93.21	26.98	6.02	65.0	± 9.6 %
		Y	62.74	122.68	34.92		65.0	
		Z	13.11	96.13	28.07		65.0	
10230-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	10.78	90.84	25.59	6.02	65.0	± 9.6 %
		Y	48.68	115.84	32.42		65.0	
		Z	12.46	93.85	26.71		65.0	
10231-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	7.66	90.18	27.97	6.02	65.0	± 9.6 %
		Y	13.86	102.08	31.86		65.0	
		Z	7.92	91.24	28.52		65.0	
10232-CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	11.44	93.19	26.97	6.02	65.0	± 9.6 %
		Y	62.67	122.68	34.92		65.0	
		Z	13.08	96.11	28.07		65.0	
10233-CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	10.75	90.81	25.58	6.02	65.0	± 9.6 %
		Y	48.50	115.79	32.41		65.0	
		Z	12.42	93.82	26.70		65.0	
10234-CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	7.34	89.19	27.51	6.02	65.0	± 9.6 %
		Y	12.98	100.59	31.27		65.0	
		Z	7.57	90.21	28.04		65.0	
10235-CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	11.45	93.23	26.99	6.02	65.0	± 9.6 %
		Y	63.03	122.79	34.95		65.0	
		Z	13.11	96.15	28.08		65.0	
10236-CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	10.87	90.96	25.62	6.02	65.0	± 9.6 %
		Y	49.65	116.13	32.49		65.0	
		Z	12.57	93.99	26.75		65.0	
10237-CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	7.67	90.24	28.00	6.02	65.0	± 9.6 %
		Y	13.91	102.19	31.90		65.0	
		Z	7.93	91.30	28.54		65.0	
10238-CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	11.41	93.16	26.96	6.02	65.0	± 9.6 %
		Y	62.56	122.66	34.91		65.0	
		Z	13.06	96.08	28.06		65.0	

10239-CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	10.72	90.78	25.57	6.02	65.0	± 9.6 %
		Y	48.29	115.74	32.40		65.0	
		Z	12.38	93.78	26.69		65.0	
10240-CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	7.65	90.20	27.98	6.02	65.0	± 9.6 %
		Y	13.86	102.14	31.88		65.0	
		Z	7.91	91.26	28.53		65.0	
10241-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	7.49	79.94	24.73	6.98	65.0	± 9.6 %
		Y	9.15	84.52	26.53		65.0	
		Z	7.78	81.10	25.24		65.0	
10242-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	6.76	77.82	23.76	6.98	65.0	± 9.6 %
		Y	8.56	83.16	25.93		65.0	
		Z	7.57	80.56	24.94		65.0	
10243-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	5.55	74.73	23.33	6.98	65.0	± 9.6 %
		Y	6.44	78.27	24.91		65.0	
		Z	5.56	75.03	23.50		65.0	
10244-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	4.91	73.06	16.84	3.98	65.0	± 9.6 %
		Y	6.23	76.34	18.14		65.0	
		Z	4.96	73.17	16.71		65.0	
10245-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	4.78	72.39	16.50	3.98	65.0	± 9.6 %
		Y	5.96	75.43	17.72		65.0	
		Z	4.79	72.41	16.32		65.0	
10246-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	4.86	76.58	18.54	3.98	65.0	± 9.6 %
		Y	5.74	78.81	19.49		65.0	
		Z	4.75	76.10	18.16		65.0	
10247-CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	4.54	72.63	17.68	3.98	65.0	± 9.6 %
		Y	5.00	73.89	18.23		65.0	
		Z	4.50	72.44	17.41		65.0	
10248-CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	4.51	72.01	17.39	3.98	65.0	± 9.6 %
		Y	4.93	73.18	17.90		65.0	
		Z	4.45	71.77	17.09		65.0	
10249-CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	6.38	81.20	21.41	3.98	65.0	± 9.6 %
		Y	7.34	83.11	22.13		65.0	
		Z	6.46	81.34	21.34		65.0	
10250-CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	5.54	75.67	20.83	3.98	65.0	± 9.6 %
		Y	5.99	76.71	21.17		65.0	
		Z	5.60	75.87	20.83		65.0	
10251-CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	5.22	73.28	19.41	3.98	65.0	± 9.6 %
		Y	5.60	74.26	19.76		65.0	
		Z	5.22	73.35	19.34		65.0	
10252-CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	6.60	81.03	22.49	3.98	65.0	± 9.6 %
		Y	7.35	82.49	22.99		65.0	
		Z	6.74	81.46	22.63		65.0	
10253-CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	5.32	72.45	19.46	3.98	65.0	± 9.6 %
		Y	5.67	73.38	19.78		65.0	
		Z	5.34	72.58	19.46		65.0	
10254-CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	5.67	73.46	20.23	3.98	65.0	± 9.6 %
		Y	6.04	74.36	20.52		65.0	
		Z	5.70	73.62	20.25		65.0	

10255-CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	6.00	77.17	21.28	3.98	65.0	± 9.6 %
		Y	6.54	78.36	21.67		65.0	
		Z	6.09	77.51	21.41		65.0	
10256-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	3.55	68.31	13.56	3.98	65.0	± 9.6 %
		Y	4.31	70.70	14.63		65.0	
		Z	3.47	67.95	13.18		65.0	
10257-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	3.46	67.65	13.15	3.98	65.0	± 9.6 %
		Y	4.12	69.78	14.12		65.0	
		Z	3.37	67.24	12.73		65.0	
10258-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	3.31	70.56	15.03	3.98	65.0	± 9.6 %
		Y	3.93	72.68	16.08		65.0	
		Z	3.14	69.68	14.40		65.0	
10259-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	4.95	73.85	18.86	3.98	65.0	± 9.6 %
		Y	5.40	75.01	19.32		65.0	
		Z	4.95	73.84	18.70		65.0	
10260-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	4.97	73.54	18.73	3.98	65.0	± 9.6 %
		Y	5.40	74.66	19.18		65.0	
		Z	4.96	73.50	18.55		65.0	
10261-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	6.09	80.15	21.50	3.98	65.0	± 9.6 %
		Y	6.88	81.79	22.11		65.0	
		Z	6.20	80.42	21.51		65.0	
10262-CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	5.53	75.60	20.77	3.98	65.0	± 9.6 %
		Y	5.97	76.64	21.12		65.0	
		Z	5.58	75.79	20.77		65.0	
10263-CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	5.21	73.26	19.40	3.98	65.0	± 9.6 %
		Y	5.59	74.24	19.76		65.0	
		Z	5.21	73.32	19.33		65.0	
10264-CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	6.52	80.79	22.38	3.98	65.0	± 9.6 %
		Y	7.26	82.25	22.87		65.0	
		Z	6.65	81.20	22.51		65.0	
10265-CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	5.42	72.95	19.72	3.98	65.0	± 9.6 %
		Y	5.78	73.89	20.03		65.0	
		Z	5.43	73.04	19.72		65.0	
10266-CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	5.81	74.04	20.57	3.98	65.0	± 9.6 %
		Y	6.19	74.96	20.86		65.0	
		Z	5.84	74.19	20.60		65.0	
10267-CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	6.31	77.85	21.33	3.98	65.0	± 9.6 %
		Y	6.90	79.09	21.75		65.0	
		Z	6.39	78.16	21.48		65.0	
10268-CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	6.05	72.91	20.14	3.98	65.0	± 9.6 %
		Y	6.40	73.76	20.40		65.0	
		Z	6.06	73.00	20.17		65.0	
10269-CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	6.03	72.50	20.01	3.98	65.0	± 9.6 %
		Y	6.37	73.34	20.27		65.0	
		Z	6.05	72.60	20.04		65.0	
10270-CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	6.14	75.03	20.36	3.98	65.0	± 9.6 %
		Y	6.59	76.06	20.69		65.0	
		Z	6.19	75.26	20.47		65.0	

10274-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.45	66.18	14.83	0.00	150.0	± 9.6 %
		Y	2.58	67.05	15.42		150.0	
		Z	2.44	66.39	14.86		150.0	
10275-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.45	67.15	14.79	0.00	150.0	± 9.6 %
		Y	1.65	68.98	16.07		150.0	
		Z	1.46	67.49	14.94		150.0	
10277-CAA	PHS (QPSK)	X	2.05	60.99	6.61	9.03	50.0	± 9.6 %
		Y	2.14	61.42	6.98		50.0	
		Z	2.15	61.21	6.84		50.0	
10278-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	3.88	69.24	13.58	9.03	50.0	± 9.6 %
		Y	4.38	71.00	14.54		50.0	
		Z	3.84	68.69	13.30		50.0	
10279-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	4.00	69.55	13.78	9.03	50.0	± 9.6 %
		Y	4.51	71.31	14.73		50.0	
		Z	3.94	68.96	13.47		50.0	
10290-AAB	CDMA2000, RC1, SO55, Full Rate	X	1.07	65.69	11.52	0.00	150.0	± 9.6 %
		Y	1.53	70.26	14.37		150.0	
		Z	1.01	65.37	11.10		150.0	
10291-AAB	CDMA2000, RC3, SO55, Full Rate	X	0.60	63.10	9.79	0.00	150.0	± 9.6 %
		Y	0.85	67.12	12.84		150.0	
		Z	0.57	62.93	9.45		150.0	
10292-AAB	CDMA2000, RC3, SO32, Full Rate	X	0.74	66.24	11.75	0.00	150.0	± 9.6 %
		Y	1.46	75.17	16.76		150.0	
		Z	0.73	66.36	11.54		150.0	
10293-AAB	CDMA2000, RC3, SO3, Full Rate	X	1.24	72.67	15.10	0.00	150.0	± 9.6 %
		Y	5.17	93.05	23.35		150.0	
		Z	1.42	74.33	15.45		150.0	
10295-AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	9.92	85.20	23.12	9.03	50.0	± 9.6 %
		Y	9.50	84.91	23.23		50.0	
		Z	10.83	86.02	23.20		50.0	
10297-AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.57	69.12	16.16	0.00	150.0	± 9.6 %
		Y	2.77	70.42	16.97		150.0	
		Z	2.55	69.32	16.30		150.0	
10298-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.27	65.66	12.33	0.00	150.0	± 9.6 %
		Y	1.58	68.64	14.32		150.0	
		Z	1.21	65.43	11.98		150.0	
10299-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	2.00	66.49	12.18	0.00	150.0	± 9.6 %
		Y	3.31	72.57	14.96		150.0	
		Z	1.99	66.70	12.06		150.0	
10300-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	1.58	63.09	9.74	0.00	150.0	± 9.6 %
		Y	1.99	65.54	11.08		150.0	
		Z	1.51	62.92	9.42		150.0	
10301-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.69	65.76	17.48	4.17	50.0	± 9.6 %
		Y	4.64	65.55	17.37		50.0	
		Z	4.67	65.93	17.49		50.0	
10302-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.09	65.93	17.93	4.96	50.0	± 9.6 %
		Y	5.12	66.18	18.09		50.0	
		Z	5.09	66.17	17.98		50.0	

10303-AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	4.84	65.58	17.76	4.96	50.0	± 9.6 %
		Y	4.88	65.83	17.92		50.0	
		Z	4.85	65.84	17.81		50.0	
10304-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.65	65.44	17.26	4.17	50.0	± 9.6 %
		Y	4.69	65.73	17.44		50.0	
		Z	4.65	65.69	17.31		50.0	
10305-AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.44	68.14	19.56	6.02	35.0	± 9.6 %
		Y	4.41	68.01	19.60		35.0	
		Z	4.62	69.17	19.86		35.0	
10306-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.68	66.85	19.08	6.02	35.0	± 9.6 %
		Y	4.67	66.81	19.12		35.0	
		Z	4.77	67.53	19.30		35.0	
10307-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.59	67.04	19.05	6.02	35.0	± 9.6 %
		Y	4.58	66.99	19.09		35.0	
		Z	4.69	67.75	19.27		35.0	
10308-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	4.57	67.28	19.21	6.02	35.0	± 9.6 %
		Y	4.56	67.23	19.25		35.0	
		Z	4.69	68.04	19.45		35.0	
10309-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	4.73	67.04	19.22	6.02	35.0	± 9.6 %
		Y	4.72	66.99	19.24		35.0	
		Z	4.82	67.69	19.42		35.0	
10310-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	4.63	66.94	19.07	6.02	35.0	± 9.6 %
		Y	4.63	66.90	19.11		35.0	
		Z	4.74	67.65	19.30		35.0	
10311-AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	2.92	68.38	15.85	0.00	150.0	± 9.6 %
		Y	3.14	69.67	16.60		150.0	
		Z	2.91	68.56	15.97		150.0	
10313-AAA	IDEN 1:3	X	2.95	70.69	14.66	6.99	70.0	± 9.6 %
		Y	3.98	74.43	16.48		70.0	
		Z	3.15	71.48	15.14		70.0	
10314-AAA	IDEN 1:6	X	5.04	79.92	21.00	10.00	30.0	± 9.6 %
		Y	6.78	84.92	23.16		30.0	
		Z	5.73	81.64	21.73		30.0	
10315-AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	0.97	63.25	14.68	0.17	150.0	± 9.6 %
		Y	1.08	64.33	15.52		150.0	
		Z	0.98	63.49	14.85		150.0	
10316-AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	X	4.44	66.48	16.13	0.17	150.0	± 9.6 %
		Y	4.51	66.82	16.27		150.0	
		Z	4.41	66.56	16.16		150.0	
10317-AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.44	66.48	16.13	0.17	150.0	± 9.6 %
		Y	4.51	66.82	16.27		150.0	
		Z	4.41	66.56	16.16		150.0	
10400-AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.53	66.78	16.11	0.00	150.0	± 9.6 %
		Y	4.61	67.15	16.28		150.0	
		Z	4.49	66.84	16.14		150.0	
10401-AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.27	67.03	16.34	0.00	150.0	± 9.6 %
		Y	5.28	67.17	16.36		150.0	
		Z	5.22	67.01	16.33		150.0	

10402-AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.50	67.24	16.31	0.00	150.0	± 9.6 %
		Y	5.56	67.57	16.43		150.0	
		Z	5.47	67.27	16.33		150.0	
10403-AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	1.07	65.69	11.52	0.00	115.0	± 9.6 %
		Y	1.53	70.26	14.37		115.0	
		Z	1.01	65.37	11.10		115.0	
10404-AAB	CDMA2000 (1xEV-DO, Rev. A)	X	1.07	65.69	11.52	0.00	115.0	± 9.6 %
		Y	1.53	70.26	14.37		115.0	
		Z	1.01	65.37	11.10		115.0	
10406-AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	23.46	102.23	25.39	0.00	100.0	± 9.6 %
		Y	100.00	115.29	27.21		100.0	
		Z	100.00	120.73	29.57		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	55.06	113.36	27.76	3.23	80.0	± 9.6 %
		Y	100.00	120.25	29.20		80.0	
		Z	100.00	122.59	30.17		80.0	
10415-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	0.91	62.47	14.11	0.00	150.0	± 9.6 %
		Y	1.00	63.52	14.99		150.0	
		Z	0.91	62.68	14.27		150.0	
10416-AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	X	4.39	66.47	16.07	0.00	150.0	± 9.6 %
		Y	4.46	66.85	16.24		150.0	
		Z	4.36	66.56	16.10		150.0	
10417-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.39	66.47	16.07	0.00	150.0	± 9.6 %
		Y	4.46	66.85	16.24		150.0	
		Z	4.36	66.56	16.10		150.0	
10418-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)	X	4.38	66.64	16.10	0.00	150.0	± 9.6 %
		Y	4.46	67.04	16.28		150.0	
		Z	4.35	66.74	16.14		150.0	
10419-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)	X	4.40	66.59	16.10	0.00	150.0	± 9.6 %
		Y	4.48	66.98	16.27		150.0	
		Z	4.37	66.68	16.13		150.0	
10422-AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.51	66.58	16.11	0.00	150.0	± 9.6 %
		Y	4.59	66.96	16.28		150.0	
		Z	4.48	66.67	16.14		150.0	
10423-AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.67	66.88	16.22	0.00	150.0	± 9.6 %
		Y	4.74	67.25	16.38		150.0	
		Z	4.62	66.95	16.24		150.0	
10424-AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.59	66.83	16.19	0.00	150.0	± 9.6 %
		Y	4.67	67.21	16.36		150.0	
		Z	4.55	66.90	16.22		150.0	
10425-AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.20	67.12	16.39	0.00	150.0	± 9.6 %
		Y	5.25	67.39	16.48		150.0	
		Z	5.17	67.16	16.41		150.0	
10426-AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.23	67.21	16.43	0.00	150.0	± 9.6 %
		Y	5.26	67.44	16.50		150.0	
		Z	5.19	67.25	16.45		150.0	

10427-AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.23	67.14	16.39	0.00	150.0	± 9.6 %
		Y	5.27	67.40	16.48		150.0	
		Z	5.18	67.14	16.40		150.0	
10430-AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.20	71.33	18.23	0.00	150.0	± 9.6 %
		Y	4.38	72.12	18.67		150.0	
		Z	4.24	71.88	18.40		150.0	
10431-AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.04	67.01	16.00	0.00	150.0	± 9.6 %
		Y	4.14	67.47	16.25		150.0	
		Z	4.00	67.12	16.01		150.0	
10432-AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.35	66.89	16.12	0.00	150.0	± 9.6 %
		Y	4.44	67.29	16.32		150.0	
		Z	4.31	66.97	16.15		150.0	
10433-AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.61	66.86	16.21	0.00	150.0	± 9.6 %
		Y	4.68	67.24	16.38		150.0	
		Z	4.57	66.94	16.24		150.0	
10434-AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.31	72.22	18.13	0.00	150.0	± 9.6 %
		Y	4.57	73.29	18.72		150.0	
		Z	4.37	72.83	18.28		150.0	
10435-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	46.38	110.94	27.14	3.23	80.0	± 9.6 %
		Y	100.00	119.98	29.08		80.0	
		Z	100.00	122.32	30.05		80.0	
10447-AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.31	66.87	15.09	0.00	150.0	± 9.6 %
		Y	3.44	67.57	15.54		150.0	
		Z	3.26	66.97	15.03		150.0	
10448-AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	3.89	66.79	15.86	0.00	150.0	± 9.6 %
		Y	3.98	67.27	16.12		150.0	
		Z	3.85	66.90	15.88		150.0	
10449-AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.17	66.71	16.01	0.00	150.0	± 9.6 %
		Y	4.26	67.14	16.23		150.0	
		Z	4.14	66.80	16.04		150.0	
10450-AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.38	66.63	16.06	0.00	150.0	± 9.6 %
		Y	4.46	67.03	16.25		150.0	
		Z	4.35	66.71	16.09		150.0	
10451-AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.16	66.87	14.55	0.00	150.0	± 9.6 %
		Y	3.31	67.71	15.09		150.0	
		Z	3.09	66.88	14.41		150.0	
10456-AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.10	67.71	16.58	0.00	150.0	± 9.6 %
		Y	6.13	67.95	16.63		150.0	
		Z	6.10	67.81	16.63		150.0	
10457-AAA	UMTS-FDD (DC-HSDPA)	X	3.68	65.12	15.78	0.00	150.0	± 9.6 %
		Y	3.75	65.52	15.96		150.0	
		Z	3.67	65.23	15.81		150.0	
10458-AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.88	71.11	17.24	0.00	150.0	± 9.6 %
		Y	4.15	72.36	17.96		150.0	
		Z	3.88	71.47	17.22		150.0	
10459-AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	5.03	68.93	18.26	0.00	150.0	± 9.6 %
		Y	5.12	69.27	18.40		150.0	
		Z	5.02	69.28	18.31		150.0	

10460-AAA	UMTS-FDD (WCDMA, AMR)	X	0.76	67.21	14.98	0.00	150.0	± 9.6 %
		Y	0.95	70.10	17.17		150.0	
		Z	0.78	67.84	15.35		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	124.22	31.05	3.29	80.0	± 9.6 %
		Y	100.00	126.59	32.12		80.0	
		Z	100.00	126.67	32.13		80.0	
10462-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.13	62.20	9.29	3.23	80.0	± 9.6 %
		Y	1.76	66.14	10.65		80.0	
		Z	1.32	63.88	10.13		80.0	
10463-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.91	60.00	7.67	3.23	80.0	± 9.6 %
		Y	0.95	60.52	7.63		80.0	
		Z	0.89	60.00	7.73		80.0	
10464-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	47.59	111.65	27.34	3.23	80.0	± 9.6 %
		Y	100.00	123.29	30.45		80.0	
		Z	100.00	123.26	30.40		80.0	
10465-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.05	61.52	8.89	3.23	80.0	± 9.6 %
		Y	1.46	64.47	9.90		80.0	
		Z	1.18	62.83	9.59		80.0	
10466-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.91	60.00	7.62	3.23	80.0	± 9.6 %
		Y	0.90	60.08	7.36		80.0	
		Z	0.89	60.00	7.68		80.0	
10467-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	72.09	117.06	28.59	3.23	80.0	± 9.6 %
		Y	100.00	123.66	30.60		80.0	
		Z	100.00	123.63	30.56		80.0	
10468-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.07	61.70	9.00	3.23	80.0	± 9.6 %
		Y	1.53	64.89	10.09		80.0	
		Z	1.22	63.12	9.74		80.0	
10469-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.91	60.00	7.62	3.23	80.0	± 9.6 %
		Y	0.90	60.09	7.36		80.0	
		Z	0.89	60.00	7.68		80.0	
10470-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	74.02	117.39	28.66	3.23	80.0	± 9.6 %
		Y	100.00	123.68	30.61		80.0	
		Z	100.00	123.65	30.56		80.0	
10471-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.07	61.65	8.96	3.23	80.0	± 9.6 %
		Y	1.51	64.78	10.03		80.0	
		Z	1.21	63.05	9.70		80.0	
10472-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.91	60.00	7.61	3.23	80.0	± 9.6 %
		Y	0.89	60.04	7.32		80.0	
		Z	0.89	60.00	7.66		80.0	
10473-AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	72.58	117.11	28.59	3.23	80.0	± 9.6 %
		Y	100.00	123.64	30.59		80.0	
		Z	100.00	123.61	30.54		80.0	
10474-AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.06	61.62	8.95	3.23	80.0	± 9.6 %
		Y	1.50	64.73	10.01		80.0	
		Z	1.20	63.02	9.68		80.0	
10475-AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.91	60.00	7.61	3.23	80.0	± 9.6 %
		Y	0.89	60.02	7.32		80.0	
		Z	0.89	60.00	7.66		80.0	

10477-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.04	61.46	8.85	3.23	80.0	± 9.6 %
		Y	1.44	64.36	9.83		80.0	
		Z	1.17	62.77	9.54		80.0	
10478-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.91	60.00	7.60	3.23	80.0	± 9.6 %
		Y	0.89	60.00	7.29		80.0	
		Z	0.89	60.00	7.65		80.0	
10479-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	8.21	87.49	22.94	3.23	80.0	± 9.6 %
		Y	20.18	101.14	27.13		80.0	
		Z	18.46	99.74	26.54		80.0	
10480-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.14	76.02	17.14	3.23	80.0	± 9.6 %
		Y	17.56	91.22	21.83		80.0	
		Z	8.18	81.93	19.01		80.0	
10481-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.78	71.70	15.15	3.23	80.0	± 9.6 %
		Y	9.36	82.53	18.82		80.0	
		Z	4.98	75.18	16.32		80.0	
10482-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.35	69.25	15.02	2.23	80.0	± 9.6 %
		Y	3.01	72.46	16.59		80.0	
		Z	2.33	69.25	14.80		80.0	
10483-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.09	69.06	14.42	2.23	80.0	± 9.6 %
		Y	4.90	74.92	16.84		80.0	
		Z	3.31	69.99	14.61		80.0	
10484-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.93	68.12	14.03	2.23	80.0	± 9.6 %
		Y	4.36	73.23	16.22		80.0	
		Z	3.05	68.75	14.10		80.0	
10485-AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.95	72.33	17.49	2.23	80.0	± 9.6 %
		Y	3.47	74.53	18.53		80.0	
		Z	3.08	73.09	17.68		80.0	
10486-AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.76	67.89	15.02	2.23	80.0	± 9.6 %
		Y	3.16	69.70	15.94		80.0	
		Z	2.75	68.00	14.88		80.0	
10487-AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.75	67.50	14.83	2.23	80.0	± 9.6 %
		Y	3.13	69.21	15.71		80.0	
		Z	2.74	67.55	14.66		80.0	
10488-AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.27	71.87	18.23	2.23	80.0	± 9.6 %
		Y	3.61	73.22	18.84		80.0	
		Z	3.35	72.44	18.47		80.0	
10489-AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.21	68.44	16.77	2.23	80.0	± 9.6 %
		Y	3.45	69.44	17.24		80.0	
		Z	3.25	68.82	16.89		80.0	
10490-AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.29	68.29	16.72	2.23	80.0	± 9.6 %
		Y	3.53	69.24	17.16		80.0	
		Z	3.33	68.65	16.82		80.0	
10491-AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.51	70.39	17.81	2.23	80.0	± 9.6 %
		Y	3.78	71.45	18.28		80.0	
		Z	3.55	70.76	17.99		80.0	
10492-AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.56	67.76	16.86	2.23	80.0	± 9.6 %
		Y	3.76	68.54	17.20		80.0	
		Z	3.58	68.03	16.97		80.0	

10493-AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.62	67.64	16.82	2.23	80.0	± 9.6 %
		Y	3.82	68.40	17.14		80.0	
		Z	3.64	67.90	16.91		80.0	
10494-AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.79	71.83	18.26	2.23	80.0	± 9.6 %
		Y	4.13	73.06	18.79		80.0	
		Z	3.85	72.23	18.46		80.0	
10495-AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.59	68.11	17.06	2.23	80.0	± 9.6 %
		Y	3.79	68.91	17.40		80.0	
		Z	3.61	68.36	17.17		80.0	
10496-AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.67	67.87	17.00	2.23	80.0	± 9.6 %
		Y	3.86	68.62	17.31		80.0	
		Z	3.69	68.11	17.10		80.0	
10497-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.45	63.41	11.17	2.23	80.0	± 9.6 %
		Y	1.92	66.56	12.95		80.0	
		Z	1.35	62.71	10.54		80.0	
10498-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.28	60.00	8.33	2.23	80.0	± 9.6 %
		Y	1.38	60.59	8.91		80.0	
		Z	1.25	60.00	8.01		80.0	
10499-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.30	60.00	8.19	2.23	80.0	± 9.6 %
		Y	1.33	60.08	8.49		80.0	
		Z	1.27	60.00	7.87		80.0	
10500-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.04	71.93	17.72	2.23	80.0	± 9.6 %
		Y	3.46	73.67	18.54		80.0	
		Z	3.15	72.64	17.94		80.0	
10501-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.98	68.33	15.79	2.23	80.0	± 9.6 %
		Y	3.31	69.74	16.50		80.0	
		Z	3.01	68.63	15.79		80.0	
10502-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.03	68.16	15.65	2.23	80.0	± 9.6 %
		Y	3.36	69.55	16.35		80.0	
		Z	3.05	68.42	15.63		80.0	
10503-AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.23	71.65	18.12	2.23	80.0	± 9.6 %
		Y	3.56	73.00	18.74		80.0	
		Z	3.30	72.21	18.35		80.0	
10504-AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.19	68.33	16.71	2.23	80.0	± 9.6 %
		Y	3.43	69.33	17.17		80.0	
		Z	3.23	68.71	16.82		80.0	
10505-AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.27	68.19	16.66	2.23	80.0	± 9.6 %
		Y	3.51	69.14	17.10		80.0	
		Z	3.31	68.54	16.75		80.0	
10506-AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.76	71.67	18.18	2.23	80.0	± 9.6 %
		Y	4.10	72.90	18.71		80.0	
		Z	3.81	72.07	18.38		80.0	
10507-AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.57	68.04	17.02	2.23	80.0	± 9.6 %
		Y	3.78	68.84	17.36		80.0	
		Z	3.59	68.29	17.13		80.0	

10508-AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.65	67.79	16.95	2.23	80.0	± 9.6 %
		Y	3.85	68.55	17.26		80.0	
		Z	3.67	68.04	17.05		80.0	
10509-AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.11	70.47	17.71	2.23	80.0	± 9.6 %
		Y	4.41	71.52	18.16		80.0	
		Z	4.14	70.76	17.87		80.0	
10510-AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.05	67.79	17.05	2.23	80.0	± 9.6 %
		Y	4.24	68.50	17.33		80.0	
		Z	4.06	67.96	17.14		80.0	
10511-AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.11	67.57	17.00	2.23	80.0	± 9.6 %
		Y	4.30	68.25	17.26		80.0	
		Z	4.12	67.74	17.08		80.0	
10512-AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.27	71.92	18.15	2.23	80.0	± 9.6 %
		Y	4.64	73.17	18.68		80.0	
		Z	4.32	72.22	18.32		80.0	
10513-AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.94	68.01	17.14	2.23	80.0	± 9.6 %
		Y	4.13	68.75	17.43		80.0	
		Z	3.95	68.18	17.23		80.0	
10514-AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.97	67.63	17.03	2.23	80.0	± 9.6 %
		Y	4.15	68.33	17.30		80.0	
		Z	3.98	67.79	17.12		80.0	
10515-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.87	62.63	14.14	0.00	150.0	± 9.6 %
		Y	0.97	63.74	15.08		150.0	
		Z	0.87	62.85	14.30		150.0	
10516-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.49	69.66	15.70	0.00	150.0	± 9.6 %
		Y	0.68	73.95	19.23		150.0	
		Z	0.52	70.86	16.45		150.0	
10517-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.71	64.33	14.51	0.00	150.0	± 9.6 %
		Y	0.83	66.01	15.95		150.0	
		Z	0.72	64.67	14.76		150.0	
10518-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.38	66.55	16.05	0.00	150.0	± 9.6 %
		Y	4.46	66.94	16.23		150.0	
		Z	4.35	66.64	16.08		150.0	
10519-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.55	66.77	16.16	0.00	150.0	± 9.6 %
		Y	4.62	67.14	16.33		150.0	
		Z	4.51	66.84	16.19		150.0	
10520-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.40	66.71	16.07	0.00	150.0	± 9.6 %
		Y	4.48	67.10	16.26		150.0	
		Z	4.37	66.78	16.10		150.0	
10521-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.34	66.70	16.06	0.00	150.0	± 9.6 %
		Y	4.42	67.10	16.25		150.0	
		Z	4.30	66.76	16.08		150.0	
10522-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.40	66.82	16.16	0.00	150.0	± 9.6 %
		Y	4.48	67.21	16.34		150.0	
		Z	4.36	66.90	16.19		150.0	

10523-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.29	66.70	16.01	0.00	150.0	± 9.6 %
		Y	4.37	67.12	16.22		150.0	
		Z	4.26	66.81	16.06		150.0	
10524-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.34	66.74	16.12	0.00	150.0	± 9.6 %
		Y	4.42	67.13	16.31		150.0	
		Z	4.30	66.82	16.16		150.0	
10525-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.34	65.80	15.73	0.00	150.0	± 9.6 %
		Y	4.43	66.22	15.92		150.0	
		Z	4.32	65.90	15.77		150.0	
10526-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.50	66.14	15.86	0.00	150.0	± 9.6 %
		Y	4.58	66.55	16.05		150.0	
		Z	4.46	66.22	15.90		150.0	
10527-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.42	66.09	15.80	0.00	150.0	± 9.6 %
		Y	4.50	66.52	16.00		150.0	
		Z	4.38	66.18	15.84		150.0	
10528-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.44	66.11	15.83	0.00	150.0	± 9.6 %
		Y	4.52	66.53	16.03		150.0	
		Z	4.40	66.19	15.87		150.0	
10529-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.44	66.11	15.83	0.00	150.0	± 9.6 %
		Y	4.52	66.53	16.03		150.0	
		Z	4.40	66.19	15.87		150.0	
10531-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.42	66.18	15.83	0.00	150.0	± 9.6 %
		Y	4.50	66.61	16.03		150.0	
		Z	4.37	66.25	15.86		150.0	
10532-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.29	66.04	15.76	0.00	150.0	± 9.6 %
		Y	4.37	66.48	15.97		150.0	
		Z	4.25	66.11	15.79		150.0	
10533-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.44	66.17	15.83	0.00	150.0	± 9.6 %
		Y	4.53	66.60	16.03		150.0	
		Z	4.41	66.26	15.87		150.0	
10534-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	4.98	66.20	15.91	0.00	150.0	± 9.6 %
		Y	5.05	66.57	16.06		150.0	
		Z	4.95	66.26	15.95		150.0	
10535-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.05	66.39	16.00	0.00	150.0	± 9.6 %
		Y	5.11	66.72	16.13		150.0	
		Z	5.01	66.43	16.03		150.0	
10536-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	4.92	66.34	15.95	0.00	150.0	± 9.6 %
		Y	4.99	66.70	16.10		150.0	
		Z	4.89	66.40	15.99		150.0	
10537-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	4.98	66.30	15.94	0.00	150.0	± 9.6 %
		Y	5.04	66.66	16.08		150.0	
		Z	4.95	66.35	15.97		150.0	
10538-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.06	66.31	15.98	0.00	150.0	± 9.6 %
		Y	5.12	66.65	16.12		150.0	
		Z	5.02	66.35	16.01		150.0	
10540-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	4.99	66.30	16.00	0.00	150.0	± 9.6 %
		Y	5.05	66.64	16.13		150.0	
		Z	4.95	66.33	16.02		150.0	

10541-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	4.97	66.19	15.93	0.00	150.0	± 9.6 %
		Y	5.03	66.55	16.07		150.0	
		Z	4.93	66.22	15.95		150.0	
10542-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.12	66.28	15.99	0.00	150.0	± 9.6 %
		Y	5.19	66.62	16.12		150.0	
		Z	5.09	66.32	16.02		150.0	
10543-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.19	66.29	16.02	0.00	150.0	± 9.6 %
		Y	5.25	66.63	16.15		150.0	
		Z	5.15	66.34	16.05		150.0	
10544-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.31	66.31	15.91	0.00	150.0	± 9.6 %
		Y	5.37	66.66	16.05		150.0	
		Z	5.28	66.35	15.94		150.0	
10545-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.50	66.75	16.09	0.00	150.0	± 9.6 %
		Y	5.54	67.02	16.18		150.0	
		Z	5.47	66.79	16.11		150.0	
10546-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.36	66.48	15.97	0.00	150.0	± 9.6 %
		Y	5.42	66.83	16.10		150.0	
		Z	5.33	66.50	15.98		150.0	
10547-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.43	66.54	15.99	0.00	150.0	± 9.6 %
		Y	5.49	66.87	16.11		150.0	
		Z	5.40	66.57	16.01		150.0	
10548-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.66	67.42	16.40	0.00	150.0	± 9.6 %
		Y	5.65	67.55	16.42		150.0	
		Z	5.60	67.37	16.38		150.0	
10550-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.40	66.56	16.02	0.00	150.0	± 9.6 %
		Y	5.45	66.87	16.13		150.0	
		Z	5.37	66.62	16.05		150.0	
10551-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.39	66.55	15.97	0.00	150.0	± 9.6 %
		Y	5.45	66.88	16.09		150.0	
		Z	5.35	66.53	15.97		150.0	
10552-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.32	66.38	15.89	0.00	150.0	± 9.6 %
		Y	5.38	66.76	16.04		150.0	
		Z	5.29	66.43	15.92		150.0	
10553-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.39	66.39	15.93	0.00	150.0	± 9.6 %
		Y	5.45	66.75	16.07		150.0	
		Z	5.36	66.42	15.95		150.0	
10554-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.72	66.67	16.01	0.00	150.0	± 9.6 %
		Y	5.77	67.00	16.12		150.0	
		Z	5.70	66.69	16.02		150.0	
10555-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.84	66.96	16.13	0.00	150.0	± 9.6 %
		Y	5.88	67.25	16.23		150.0	
		Z	5.81	66.97	16.14		150.0	
10556-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	5.87	67.02	16.15	0.00	150.0	± 9.6 %
		Y	5.91	67.31	16.25		150.0	
		Z	5.84	67.04	16.17		150.0	
10557-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.83	66.90	16.11	0.00	150.0	± 9.6 %
		Y	5.87	67.22	16.22		150.0	
		Z	5.80	66.91	16.13		150.0	

10558-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	5.87	67.06	16.20	0.00	150.0	± 9.6 %
		Y	5.91	67.36	16.31		150.0	
		Z	5.83	67.06	16.21		150.0	
10560-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	5.86	66.91	16.17	0.00	150.0	± 9.6 %
		Y	5.92	67.23	16.28		150.0	
		Z	5.83	66.92	16.18		150.0	
10561-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.80	66.89	16.20	0.00	150.0	± 9.6 %
		Y	5.84	67.19	16.30		150.0	
		Z	5.77	66.91	16.21		150.0	
10562-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	5.89	67.20	16.35	0.00	150.0	± 9.6 %
		Y	5.93	67.48	16.44		150.0	
		Z	5.84	67.16	16.34		150.0	
10563-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.00	67.15	16.29	0.00	150.0	± 9.6 %
		Y	6.02	67.38	16.35		150.0	
		Z	5.93	67.06	16.25		150.0	
10564-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	X	4.70	66.60	16.19	0.46	150.0	± 9.6 %
		Y	4.77	66.96	16.34		150.0	
		Z	4.67	66.68	16.22		150.0	
10565-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	X	4.92	67.06	16.53	0.46	150.0	± 9.6 %
		Y	4.99	67.39	16.67		150.0	
		Z	4.88	67.12	16.55		150.0	
10566-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	X	4.75	66.88	16.33	0.46	150.0	± 9.6 %
		Y	4.82	67.22	16.47		150.0	
		Z	4.71	66.94	16.35		150.0	
10567-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	X	4.79	67.31	16.72	0.46	150.0	± 9.6 %
		Y	4.86	67.67	16.87		150.0	
		Z	4.75	67.38	16.75		150.0	
10568-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	X	4.66	66.64	16.08	0.46	150.0	± 9.6 %
		Y	4.73	66.98	16.23		150.0	
		Z	4.62	66.69	16.09		150.0	
10569-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	X	4.76	67.45	16.81	0.46	150.0	± 9.6 %
		Y	4.83	67.82	16.96		150.0	
		Z	4.73	67.57	16.86		150.0	
10570-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	X	4.78	67.26	16.71	0.46	150.0	± 9.6 %
		Y	4.85	67.62	16.86		150.0	
		Z	4.74	67.35	16.75		150.0	
10571-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.05	63.78	14.98	0.46	130.0	± 9.6 %
		Y	1.16	64.84	15.77		130.0	
		Z	1.06	64.03	15.14		130.0	
10572-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.06	64.35	15.34	0.46	130.0	± 9.6 %
		Y	1.17	65.47	16.16		130.0	
		Z	1.07	64.63	15.52		130.0	
10573-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	1.81	84.33	21.65	0.46	130.0	± 9.6 %
		Y	2.93	92.85	25.80		130.0	
		Z	2.19	87.52	22.91		130.0	
10574-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.15	70.21	18.29	0.46	130.0	± 9.6 %
		Y	1.33	72.12	19.55		130.0	
		Z	1.19	70.90	18.68		130.0	

10575-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	X	4.49	66.39	16.24	0.46	130.0	± 9.6 %
		Y	4.55	66.72	16.36		130.0	
		Z	4.46	66.48	16.26		130.0	
10576-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	X	4.51	66.57	16.31	0.46	130.0	± 9.6 %
		Y	4.58	66.91	16.44		130.0	
		Z	4.48	66.67	16.34		130.0	
10577-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	X	4.70	66.85	16.48	0.46	130.0	± 9.6 %
		Y	4.77	67.17	16.60		130.0	
		Z	4.67	66.93	16.51		130.0	
10578-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	X	4.60	67.01	16.59	0.46	130.0	± 9.6 %
		Y	4.67	67.35	16.72		130.0	
		Z	4.57	67.10	16.62		130.0	
10579-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	X	4.36	66.21	15.83	0.46	130.0	± 9.6 %
		Y	4.42	66.54	15.97		130.0	
		Z	4.32	66.26	15.84		130.0	
10580-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	X	4.40	66.27	15.86	0.46	130.0	± 9.6 %
		Y	4.46	66.59	16.00		130.0	
		Z	4.36	66.33	15.88		130.0	
10581-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	X	4.50	67.05	16.53	0.46	130.0	± 9.6 %
		Y	4.57	67.39	16.67		130.0	
		Z	4.47	67.15	16.57		130.0	
10582-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	X	4.29	65.96	15.60	0.46	130.0	± 9.6 %
		Y	4.35	66.28	15.74		130.0	
		Z	4.25	66.00	15.61		130.0	
10583-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.49	66.39	16.24	0.46	130.0	± 9.6 %
		Y	4.55	66.72	16.36		130.0	
		Z	4.46	66.48	16.26		130.0	
10584-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.51	66.57	16.31	0.46	130.0	± 9.6 %
		Y	4.58	66.91	16.44		130.0	
		Z	4.48	66.67	16.34		130.0	
10585-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.70	66.85	16.48	0.46	130.0	± 9.6 %
		Y	4.77	67.17	16.60		130.0	
		Z	4.67	66.93	16.51		130.0	
10586-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.60	67.01	16.59	0.46	130.0	± 9.6 %
		Y	4.67	67.35	16.72		130.0	
		Z	4.57	67.10	16.62		130.0	
10587-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.36	66.21	15.83	0.46	130.0	± 9.6 %
		Y	4.42	66.54	15.97		130.0	
		Z	4.32	66.26	15.84		130.0	
10588-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.40	66.27	15.86	0.46	130.0	± 9.6 %
		Y	4.46	66.59	16.00		130.0	
		Z	4.36	66.33	15.88		130.0	
10589-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.50	67.05	16.53	0.46	130.0	± 9.6 %
		Y	4.57	67.39	16.67		130.0	
		Z	4.47	67.15	16.57		130.0	
10590-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.29	65.96	15.60	0.46	130.0	± 9.6 %
		Y	4.35	66.28	15.74		130.0	
		Z	4.25	66.00	15.61		130.0	

10591-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.64	66.47	16.35	0.46	130.0	± 9.6 %
		Y	4.70	66.79	16.47		130.0	
		Z	4.61	66.56	16.38		130.0	
10592-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.78	66.80	16.49	0.46	130.0	± 9.6 %
		Y	4.84	67.11	16.60		130.0	
		Z	4.75	66.87	16.51		130.0	
10593-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.70	66.68	16.35	0.46	130.0	± 9.6 %
		Y	4.76	67.00	16.47		130.0	
		Z	4.66	66.75	16.37		130.0	
10594-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.76	66.86	16.52	0.46	130.0	± 9.6 %
		Y	4.82	67.18	16.63		130.0	
		Z	4.72	66.94	16.54		130.0	
10595-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.72	66.81	16.41	0.46	130.0	± 9.6 %
		Y	4.78	67.13	16.53		130.0	
		Z	4.68	66.89	16.44		130.0	
10596-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.66	66.80	16.40	0.46	130.0	± 9.6 %
		Y	4.72	67.12	16.53		130.0	
		Z	4.62	66.87	16.43		130.0	
10597-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.60	66.68	16.27	0.46	130.0	± 9.6 %
		Y	4.67	67.01	16.40		130.0	
		Z	4.57	66.74	16.29		130.0	
10598-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.59	66.93	16.55	0.46	130.0	± 9.6 %
		Y	4.66	67.26	16.68		130.0	
		Z	4.56	67.00	16.58		130.0	
10599-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.32	67.00	16.59	0.46	130.0	± 9.6 %
		Y	5.34	67.19	16.62		130.0	
		Z	5.28	67.04	16.61		130.0	
10600-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.45	67.42	16.77	0.46	130.0	± 9.6 %
		Y	5.44	67.51	16.75		130.0	
		Z	5.41	67.45	16.79		130.0	
10601-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.34	67.16	16.66	0.46	130.0	± 9.6 %
		Y	5.36	67.35	16.69		130.0	
		Z	5.30	67.21	16.68		130.0	
10602-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.45	67.27	16.63	0.46	130.0	± 9.6 %
		Y	5.48	67.47	16.67		130.0	
		Z	5.43	67.37	16.68		130.0	
10603-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.52	67.55	16.90	0.46	130.0	± 9.6 %
		Y	5.54	67.72	16.93		130.0	
		Z	5.50	67.66	16.96		130.0	
10604-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.38	67.16	16.70	0.46	130.0	± 9.6 %
		Y	5.41	67.36	16.73		130.0	
		Z	5.38	67.32	16.78		130.0	
10605-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.44	67.34	16.78	0.46	130.0	± 9.6 %
		Y	5.45	67.47	16.78		130.0	
		Z	5.41	67.37	16.80		130.0	
10606-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.17	66.57	16.25	0.46	130.0	± 9.6 %
		Y	5.21	66.82	16.32		130.0	
		Z	5.14	66.65	16.29		130.0	

10607-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.48	65.79	15.98	0.46	130.0	± 9.6 %
		Y	4.55	66.14	16.12		130.0	
		Z	4.46	65.89	16.02		130.0	
10608-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.65	66.17	16.14	0.46	130.0	± 9.6 %
		Y	4.72	66.52	16.28		130.0	
		Z	4.61	66.26	16.18		130.0	
10609-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.54	66.00	15.96	0.46	130.0	± 9.6 %
		Y	4.61	66.36	16.11		130.0	
		Z	4.51	66.08	15.99		130.0	
10610-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.59	66.17	16.14	0.46	130.0	± 9.6 %
		Y	4.66	66.53	16.28		130.0	
		Z	4.56	66.26	16.17		130.0	
10611-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.51	65.97	15.97	0.46	130.0	± 9.6 %
		Y	4.57	66.32	16.12		130.0	
		Z	4.47	66.05	16.01		130.0	
10612-AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.51	66.11	16.01	0.46	130.0	± 9.6 %
		Y	4.58	66.46	16.16		130.0	
		Z	4.47	66.19	16.05		130.0	
10613-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.51	65.96	15.88	0.46	130.0	± 9.6 %
		Y	4.57	66.31	16.02		130.0	
		Z	4.46	66.02	15.90		130.0	
10614-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.46	66.18	16.13	0.46	130.0	± 9.6 %
		Y	4.53	66.55	16.29		130.0	
		Z	4.43	66.26	16.17		130.0	
10615-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.50	65.78	15.73	0.46	130.0	± 9.6 %
		Y	4.57	66.13	15.88		130.0	
		Z	4.46	65.86	15.76		130.0	
10616-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.13	66.23	16.19	0.46	130.0	± 9.6 %
		Y	5.18	66.52	16.28		130.0	
		Z	5.10	66.28	16.22		130.0	
10617-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.21	66.44	16.26	0.46	130.0	± 9.6 %
		Y	5.24	66.68	16.33		130.0	
		Z	5.17	66.48	16.29		130.0	
10618-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.09	66.44	16.28	0.46	130.0	± 9.6 %
		Y	5.14	66.73	16.37		130.0	
		Z	5.07	66.51	16.32		130.0	
10619-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.10	66.22	16.10	0.46	130.0	± 9.6 %
		Y	5.14	66.49	16.19		130.0	
		Z	5.07	66.27	16.13		130.0	
10620-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.19	66.25	16.17	0.46	130.0	± 9.6 %
		Y	5.23	66.52	16.25		130.0	
		Z	5.15	66.30	16.20		130.0	
10621-AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.20	66.42	16.38	0.46	130.0	± 9.6 %
		Y	5.25	66.70	16.46		130.0	
		Z	5.17	66.46	16.41		130.0	
10622-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.21	66.59	16.46	0.46	130.0	± 9.6 %
		Y	5.25	66.84	16.53		130.0	
		Z	5.16	66.58	16.46		130.0	

10623-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.08	66.07	16.06	0.46	130.0	± 9.6 %
		Y	5.13	66.35	16.15		130.0	
		Z	5.04	66.08	16.07		130.0	
10624-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.27	66.29	16.24	0.46	130.0	± 9.6 %
		Y	5.32	66.55	16.31		130.0	
		Z	5.24	66.33	16.26		130.0	
10625-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.56	67.05	16.67	0.46	130.0	± 9.6 %
		Y	5.57	67.20	16.69		130.0	
		Z	5.45	66.85	16.58		130.0	
10626-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.45	66.29	16.15	0.46	130.0	± 9.6 %
		Y	5.49	66.58	16.24		130.0	
		Z	5.42	66.33	16.18		130.0	
10627-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.69	66.90	16.42	0.46	130.0	± 9.6 %
		Y	5.70	67.08	16.45		130.0	
		Z	5.66	66.94	16.45		130.0	
10628-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.46	66.33	16.07	0.46	130.0	± 9.6 %
		Y	5.50	66.60	16.14		130.0	
		Z	5.42	66.33	16.07		130.0	
10629-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.54	66.41	16.10	0.46	130.0	± 9.6 %
		Y	5.57	66.66	16.17		130.0	
		Z	5.51	66.44	16.12		130.0	
10630-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	5.93	67.80	16.79	0.46	130.0	± 9.6 %
		Y	5.86	67.72	16.70		130.0	
		Z	5.85	67.67	16.74		130.0	
10631-AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.84	67.65	16.92	0.46	130.0	± 9.6 %
		Y	5.86	67.82	16.94		130.0	
		Z	5.79	67.61	16.91		130.0	
10632-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.66	66.99	16.61	0.46	130.0	± 9.6 %
		Y	5.68	67.19	16.65		130.0	
		Z	5.64	67.07	16.66		130.0	
10633-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.53	66.52	16.20	0.46	130.0	± 9.6 %
		Y	5.57	66.82	16.28		130.0	
		Z	5.50	66.56	16.22		130.0	
10634-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.51	66.55	16.27	0.46	130.0	± 9.6 %
		Y	5.56	66.86	16.37		130.0	
		Z	5.48	66.58	16.29		130.0	
10635-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.38	65.83	15.63	0.46	130.0	± 9.6 %
		Y	5.42	66.12	15.72		130.0	
		Z	5.34	65.82	15.63		130.0	
10636-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	5.87	66.66	16.24	0.46	130.0	± 9.6 %
		Y	5.90	66.93	16.31		130.0	
		Z	5.85	66.69	16.27		130.0	
10637-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.02	67.05	16.42	0.46	130.0	± 9.6 %
		Y	6.04	67.25	16.46		130.0	
		Z	5.99	67.06	16.43		130.0	
10638-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.02	67.01	16.38	0.46	130.0	± 9.6 %
		Y	6.04	67.26	16.44		130.0	
		Z	5.99	67.04	16.40		130.0	

10639-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	5.99	66.94	16.39	0.46	130.0	± 9.6 %
		Y	6.02	67.20	16.45		130.0	
		Z	5.96	66.96	16.40		130.0	
10640-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	5.99	66.93	16.32	0.46	130.0	± 9.6 %
		Y	6.01	67.17	16.38		130.0	
		Z	5.95	66.93	16.33		130.0	
10641-AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.05	66.90	16.33	0.46	130.0	± 9.6 %
		Y	6.06	67.10	16.36		130.0	
		Z	6.02	66.93	16.35		130.0	
10642-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.08	67.13	16.62	0.46	130.0	± 9.6 %
		Y	6.11	67.39	16.68		130.0	
		Z	6.05	67.15	16.64		130.0	
10643-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	5.92	66.82	16.35	0.46	130.0	± 9.6 %
		Y	5.94	67.04	16.40		130.0	
		Z	5.89	66.84	16.37		130.0	
10644-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.04	67.19	16.56	0.46	130.0	± 9.6 %
		Y	6.06	67.41	16.60		130.0	
		Z	5.99	67.13	16.53		130.0	
10645-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.20	67.30	16.58	0.46	130.0	± 9.6 %
		Y	6.18	67.42	16.57		130.0	
		Z	6.12	67.19	16.53		130.0	
10646-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	13.97	103.27	34.96	9.30	60.0	± 9.6 %
		Y	20.81	112.89	38.12		60.0	
		Z	13.67	103.09	35.06		60.0	
10647-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	12.30	101.10	34.41	9.30	60.0	± 9.6 %
		Y	17.37	109.51	37.26		60.0	
		Z	12.00	100.85	34.49		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	0.49	61.28	8.20	0.00	150.0	± 9.6 %
		Y	0.65	63.85	10.60		150.0	
		Z	0.46	61.03	7.80		150.0	
10652-AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.40	66.41	16.15	2.23	80.0	± 9.6 %
		Y	3.58	67.18	16.52		80.0	
		Z	3.42	66.69	16.22		80.0	
10653-AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	3.94	65.81	16.40	2.23	80.0	± 9.6 %
		Y	4.08	66.40	16.64		80.0	
		Z	3.94	66.00	16.46		80.0	
10654-AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	3.93	65.47	16.42	2.23	80.0	± 9.6 %
		Y	4.06	66.03	16.64		80.0	
		Z	3.94	65.63	16.48		80.0	
10655-AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	3.99	65.43	16.46	2.23	80.0	± 9.6 %
		Y	4.13	65.99	16.67		80.0	
		Z	4.01	65.58	16.52		80.0	
10658-AAA	Pulse Waveform (200Hz, 10%)	X	7.13	77.36	16.21	10.00	50.0	± 9.6 %
		Y	16.32	87.94	19.95		50.0	
		Z	9.11	80.61	17.72		50.0	
10659-AAA	Pulse Waveform (200Hz, 20%)	X	35.68	94.53	19.76	6.99	60.0	± 9.6 %
		Y	100.00	107.23	23.45		60.0	
		Z	100.00	106.51	23.11		60.0	

10660-AAA	Pulse Waveform (200Hz, 40%)	X	100.00	100.10	18.83	3.98	80.0	± 9.6 %
		Y	100.00	106.47	21.86		80.0	
		Z	100.00	102.58	20.01		80.0	
10661-AAA	Pulse Waveform (200Hz, 60%)	X	1.25	67.33	8.37	2.22	100.0	± 9.6 %
		Y	100.00	108.17	21.47		100.0	
		Z	100.00	96.28	16.23		100.0	
10662-AAA	Pulse Waveform (200Hz, 80%)	X	0.30	60.00	2.55	0.97	120.0	± 9.6 %
		Y	100.00	113.09	21.91		120.0	
		Z	0.20	60.00	3.18		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.



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 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: **EX3-7308_Aug17**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:7308**

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

Calibration date: **August 16, 2017**

PN ✓
 8/27/17

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	31-Dec-16 (No. ES3-3013_Dec16)	Dec-17
DAE4	SN: 660	7-Dec-16 (No. DAE4-660_Dec16)	Dec-17
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-16)	In house check: Oct-17

Calibrated by:	Name Leif Klysner	Function Laboratory Technician	Signature
Approved by:	Name Katja Pokovic	Function Technical Manager	Signature
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			Issued: August 16, 2017



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 0108**

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

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 E²-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:7308

Manufactured: March 11, 2014
Calibrated: August 16, 2017

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7308

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.49	0.60	0.44	$\pm 10.1 \%$
DCP (mV) ^B	97.0	91.7	98.5	

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	134.5	$\pm 3.3 \%$
		Y	0.0	0.0	1.0		130.8	
		Z	0.0	0.0	1.0		149.9	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 ms.V^{-2}	T2 ms.V^{-1}	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
X	46.65	351.1	36.16	14.68	0.000	5.088	0.834	0.399	1.005
Y	52.88	402.1	36.74	19.55	0.309	5.100	0.477	0.605	1.007
Z	36.70	273.3	35.48	9.322	0.000	5.034	0.373	0.314	1.002

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:7308

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)
5250	35.9	4.71	5.25	5.25	5.25	0.35	1.80	± 13.1 %
5600	35.5	5.07	4.83	4.83	4.83	0.40	1.80	± 13.1 %
5750	35.4	5.22	5.11	5.11	5.11	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:7308

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)
750	55.5	0.96	10.39	10.39	10.39	0.54	0.85	± 12.0 %
835	55.2	0.97	10.21	10.21	10.21	0.47	0.84	± 12.0 %
1750	53.4	1.49	8.24	8.24	8.24	0.41	0.84	± 12.0 %
1900	53.3	1.52	7.96	7.96	7.96	0.37	0.80	± 12.0 %
2300	52.9	1.81	7.77	7.77	7.77	0.39	0.86	± 12.0 %
2450	52.7	1.95	7.66	7.66	7.66	0.35	0.85	± 12.0 %
2600	52.5	2.16	7.46	7.46	7.46	0.31	0.95	± 12.0 %
5250	48.9	5.36	4.84	4.84	4.84	0.35	1.90	± 13.1 %
5600	48.5	5.77	4.23	4.23	4.23	0.40	1.90	± 13.1 %
5750	48.3	5.94	4.50	4.50	4.50	0.40	1.90	± 13.1 %

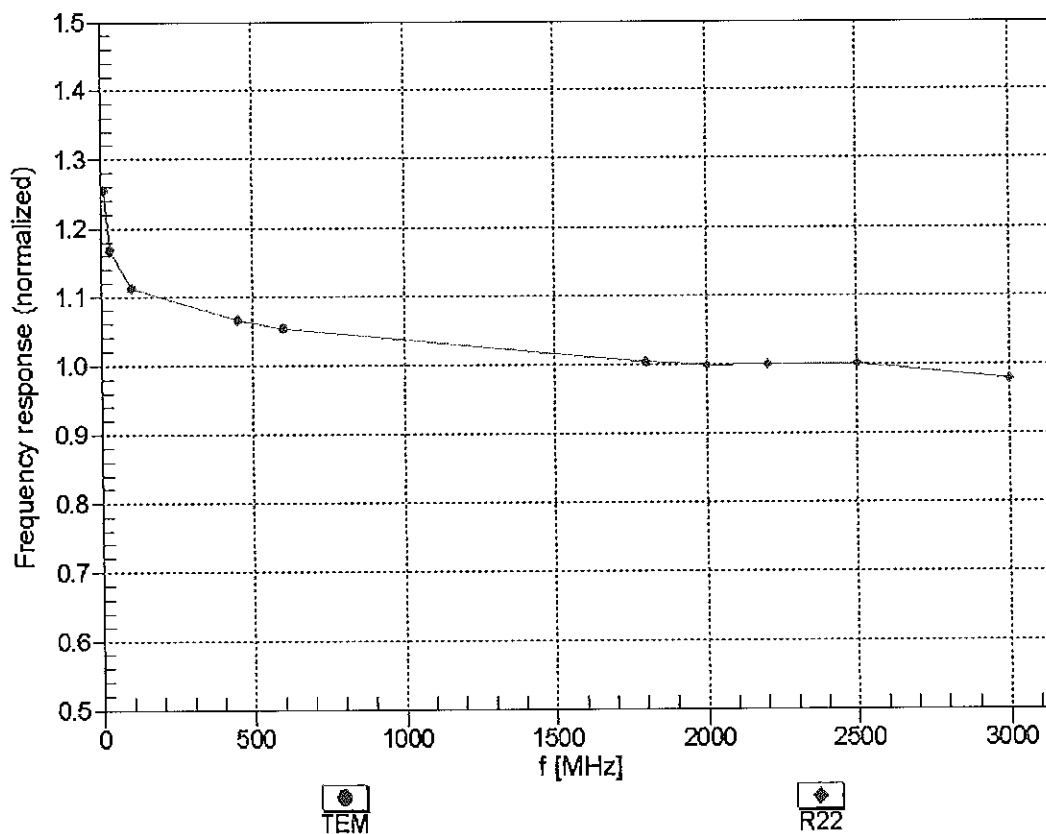
^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 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 ± 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.

Frequency Response of E-Field

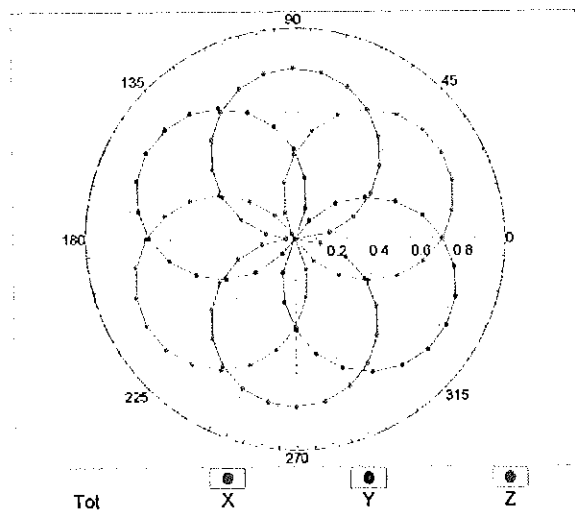
(TEM-Cell:ifi110 EXX, Waveguide: R22)



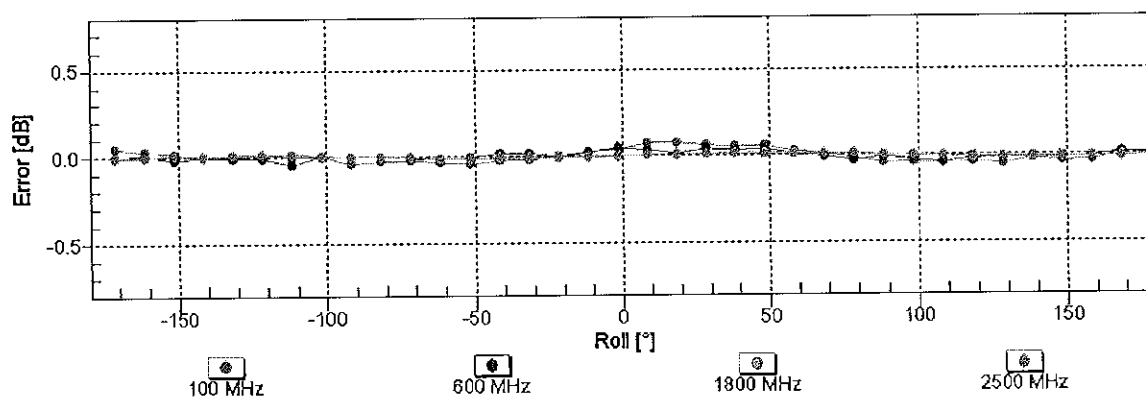
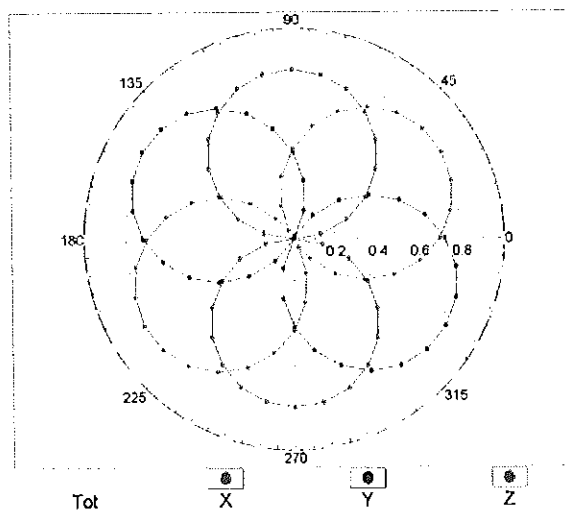
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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

f=600 MHz,TEM

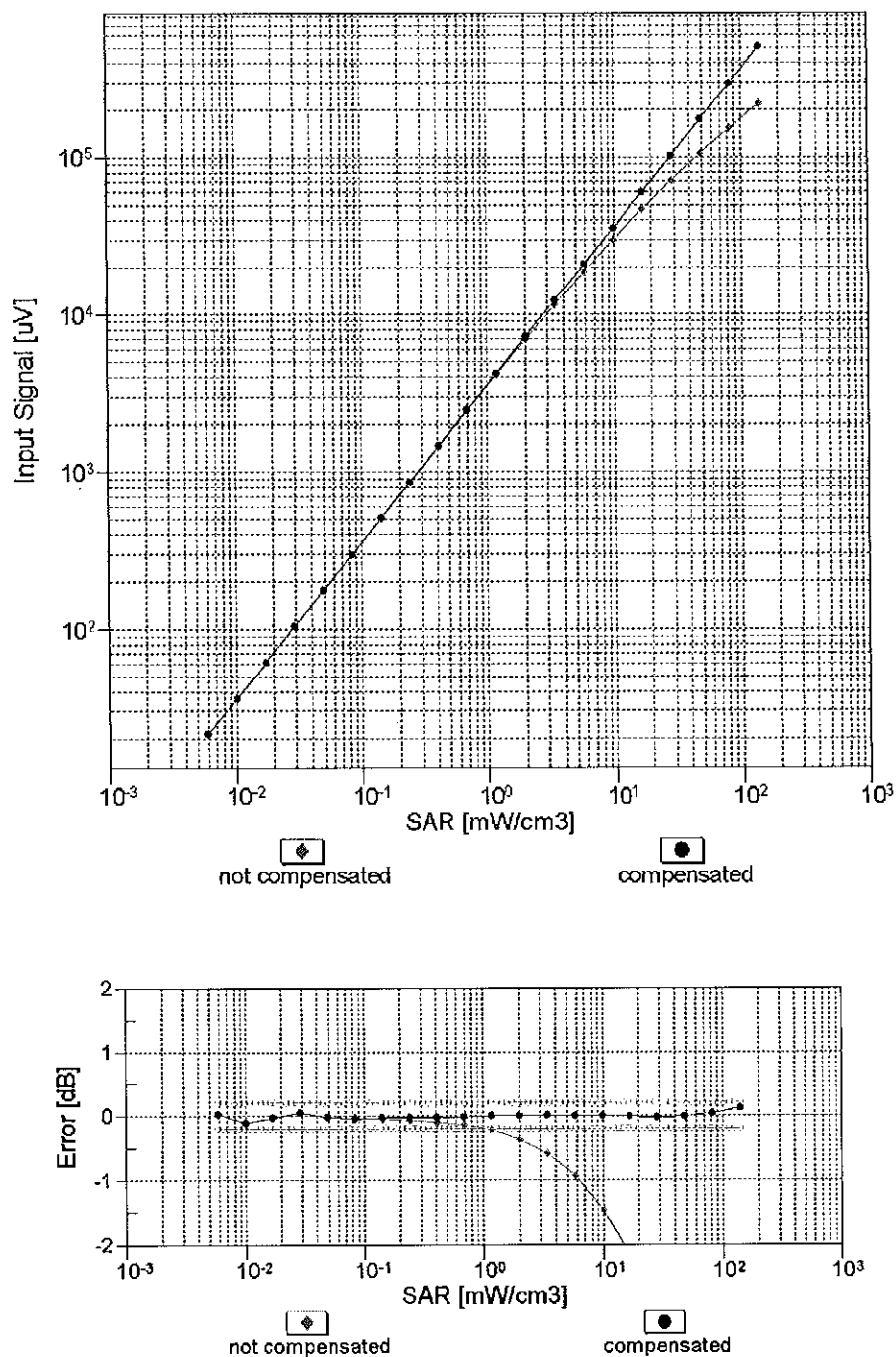


f=1800 MHz,R22



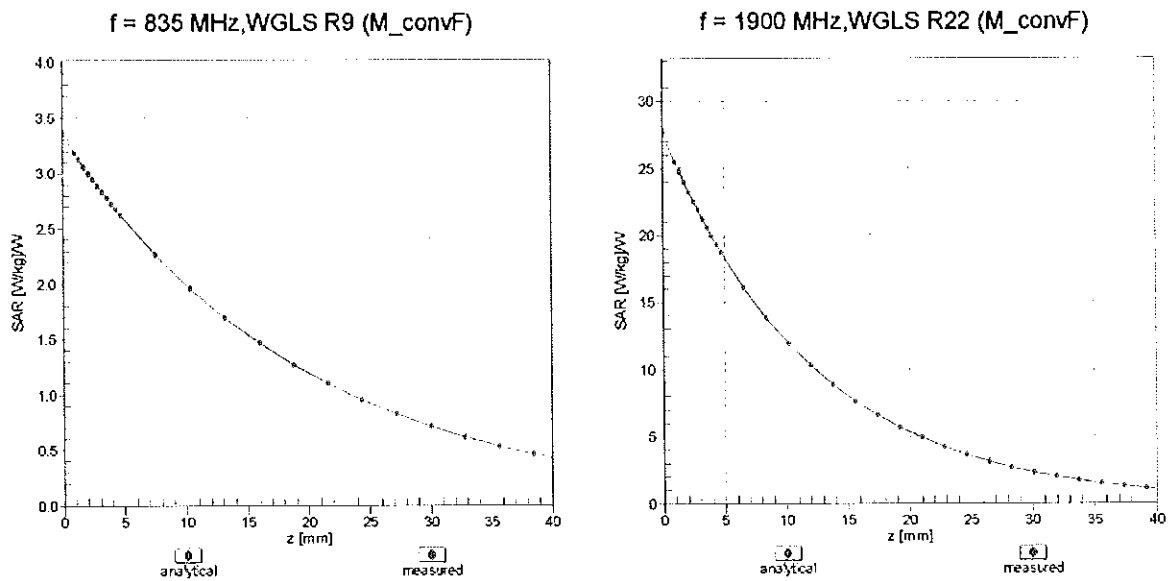
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell , $f_{\text{eval}} = 1900 \text{ MHz}$)



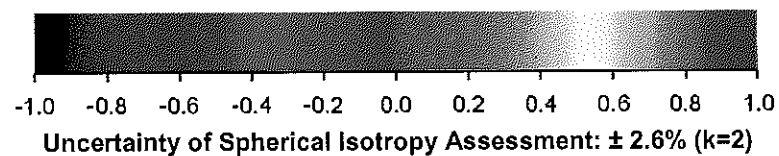
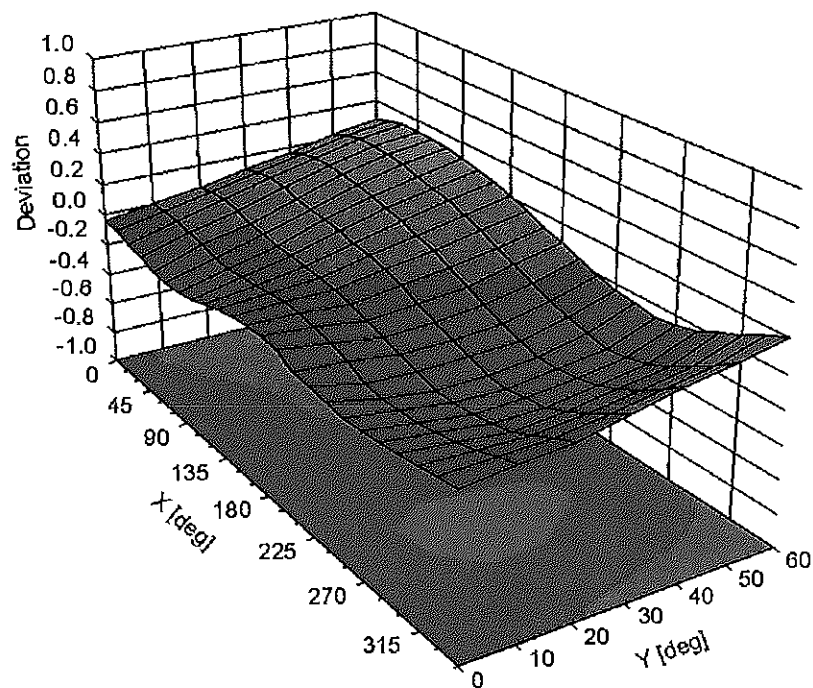
Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ , θ), $f = 900 \text{ MHz}$



DASY/EASY - Parameters of Probe: EX3DV4 - SN:7308

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	108.4
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	134.5	$\pm 3.3 \%$
		Y	0.00	0.00	1.00		130.8	
		Z	0.00	0.00	1.00		149.9	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	2.82	69.38	11.47	10.00	20.0	$\pm 9.6 \%$
		Y	8.85	81.60	16.75		20.0	
		Z	1.57	63.55	8.34		20.0	
10011- CAB	UMTS-FDD (WCDMA)	X	1.10	68.34	15.94	0.00	150.0	$\pm 9.6 \%$
		Y	1.03	66.61	14.91		150.0	
		Z	1.05	68.21	15.74		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.19	64.20	15.65	0.41	150.0	$\pm 9.6 \%$
		Y	1.20	63.83	15.29		150.0	
		Z	1.16	63.91	15.33		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	X	4.89	66.77	17.26	1.46	150.0	$\pm 9.6 \%$
		Y	4.97	66.66	17.21		150.0	
		Z	4.71	66.76	17.06		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	100.00	115.21	27.27	9.39	50.0	$\pm 9.6 \%$
		Y	100.00	118.99	29.62		50.0	
		Z	100.00	108.16	23.75		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	114.49	26.98	9.57	50.0	$\pm 9.6 \%$
		Y	100.00	118.59	29.46		50.0	
		Z	100.00	107.44	23.48		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	117.36	27.41	6.56	60.0	$\pm 9.6 \%$
		Y	100.00	118.20	28.43		60.0	
		Z	100.00	109.72	23.49		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	9.43	102.43	43.37	12.57	50.0	$\pm 9.6 \%$
		Y	5.76	81.81	33.21		50.0	
		Z	6.64	89.92	37.39		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	12.23	103.58	38.33	9.56	60.0	$\pm 9.6 \%$
		Y	13.89	103.56	37.54		60.0	
		Z	6.87	89.09	32.73		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	121.12	28.38	4.80	80.0	$\pm 9.6 \%$
		Y	100.00	119.35	28.26		80.0	
		Z	100.00	113.58	24.47		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	126.40	29.97	3.55	100.0	$\pm 9.6 \%$
		Y	100.00	121.68	28.61		100.0	
		Z	100.00	119.83	26.46		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	6.36	85.88	30.18	7.80	80.0	$\pm 9.6 \%$
		Y	7.77	88.44	30.64		80.0	
		Z	4.37	77.58	26.51		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	116.71	26.74	5.30	70.0	$\pm 9.6 \%$
		Y	100.00	116.86	27.45		70.0	
		Z	100.00	108.46	22.53		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	130.68	30.26	1.88	100.0	$\pm 9.6 \%$
		Y	100.00	122.76	27.68		100.0	
		Z	100.00	121.33	25.72		100.0	

10032-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	146.47	35.43	1.17	100.0	± 9.6 %
		Y	100.00	130.05	29.64		100.0	
		Z	100.00	142.38	32.95		100.0	
10033-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	100.00	133.81	36.67	5.30	70.0	± 9.6 %
		Y	100.00	132.56	36.57		70.0	
		Z	18.79	102.95	27.19		70.0	
10034-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	7.76	92.37	23.91	1.88	100.0	± 9.6 %
		Y	6.00	87.65	22.68		100.0	
		Z	3.22	78.87	18.00		100.0	
10035-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	3.37	81.04	19.87	1.17	100.0	± 9.6 %
		Y	2.89	77.85	18.94		100.0	
		Z	2.06	74.00	15.93		100.0	
10036-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	100.00	134.35	36.91	5.30	70.0	± 9.6 %
		Y	100.00	133.01	36.79		70.0	
		Z	38.41	113.99	30.14		70.0	
10037-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	6.72	90.40	23.29	1.88	100.0	± 9.6 %
		Y	5.52	86.51	22.28		100.0	
		Z	2.77	77.09	17.35		100.0	
10038-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	3.40	81.53	20.18	1.17	100.0	± 9.6 %
		Y	2.93	78.34	19.24		100.0	
		Z	2.07	74.35	16.21		100.0	
10039-CAB	CDMA2000 (1xRTT, RC1)	X	2.05	73.74	16.48	0.00	150.0	± 9.6 %
		Y	1.78	70.97	15.59		150.0	
		Z	1.68	71.87	14.68		150.0	
10042-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	X	100.00	111.92	25.18	7.78	50.0	± 9.6 %
		Y	100.00	114.62	26.97		50.0	
		Z	100.00	105.38	21.87		50.0	
10044-CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	97.13	0.41	0.00	150.0	± 9.6 %
		Y	0.00	93.19	1.28		150.0	
		Z	0.01	94.96	0.54		150.0	
10048-CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	100.00	111.98	26.96	13.80	25.0	± 9.6 %
		Y	100.00	121.05	31.60		25.0	
		Z	34.07	91.91	20.28		25.0	
10049-CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	1284.72	142.21	32.21	10.79	40.0	± 9.6 %
		Y	100.00	117.51	29.18		40.0	
		Z	145.96	109.32	23.74		40.0	
10056-CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	100.00	128.20	35.15	9.03	50.0	± 9.6 %
		Y	100.00	128.83	35.96		50.0	
		Z	100.00	122.10	31.77		50.0	
10058-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	4.71	78.88	26.31	6.55	100.0	± 9.6 %
		Y	5.67	81.33	26.92		100.0	
		Z	3.54	73.15	23.60		100.0	
10059-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.24	65.47	16.42	0.61	110.0	± 9.6 %
		Y	1.27	65.23	16.10		110.0	
		Z	1.17	64.77	15.84		110.0	
10060-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	100.00	144.38	38.50	1.30	110.0	± 9.6 %
		Y	100.00	138.88	36.40		110.0	
		Z	13.09	112.30	30.84		110.0	

10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	4.05	88.33	25.97	2.04	110.0	± 9.6 %
		Y	4.75	88.86	25.68		110.0	
		Z	2.16	77.73	21.68		110.0	
10062-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.69	66.76	16.65	0.49	100.0	± 9.6 %
		Y	4.76	66.60	16.58		100.0	
		Z	4.53	66.78	16.51		100.0	
10063-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.71	66.86	16.76	0.72	100.0	± 9.6 %
		Y	4.78	66.72	16.70		100.0	
		Z	4.54	66.86	16.60		100.0	
10064-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.99	67.12	16.99	0.86	100.0	± 9.6 %
		Y	5.09	67.02	16.95		100.0	
		Z	4.78	67.06	16.80		100.0	
10065-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.86	67.02	17.11	1.21	100.0	± 9.6 %
		Y	4.96	66.95	17.08		100.0	
		Z	4.65	66.90	16.87		100.0	
10066-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.88	67.05	17.29	1.46	100.0	± 9.6 %
		Y	4.99	66.99	17.27		100.0	
		Z	4.65	66.88	17.02		100.0	
10067-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.16	67.22	17.75	2.04	100.0	± 9.6 %
		Y	5.27	67.12	17.71		100.0	
		Z	4.93	67.13	17.49		100.0	
10068-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.20	67.26	17.98	2.55	100.0	± 9.6 %
		Y	5.34	67.28	18.00		100.0	
		Z	4.95	67.02	17.64		100.0	
10069-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.28	67.26	18.18	2.67	100.0	± 9.6 %
		Y	5.42	67.23	18.17		100.0	
		Z	5.02	67.05	17.83		100.0	
10071-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.98	66.86	17.58	1.99	100.0	± 9.6 %
		Y	5.07	66.77	17.55		100.0	
		Z	4.79	66.80	17.35		100.0	
10072-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.95	67.19	17.81	2.30	100.0	± 9.6 %
		Y	5.06	67.16	17.80		100.0	
		Z	4.74	67.03	17.53		100.0	
10073-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.00	67.34	18.16	2.83	100.0	± 9.6 %
		Y	5.12	67.33	18.16		100.0	
		Z	4.79	67.17	17.85		100.0	
10074-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.97	67.20	18.31	3.30	100.0	± 9.6 %
		Y	5.10	67.22	18.33		100.0	
		Z	4.78	67.07	17.99		100.0	
10075-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.00	67.30	18.63	3.82	90.0	± 9.6 %
		Y	5.15	67.40	18.70		90.0	
		Z	4.78	67.05	18.23		90.0	
10076-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.00	67.05	18.74	4.15	90.0	± 9.6 %
		Y	5.14	67.12	18.78		90.0	
		Z	4.81	66.90	18.39		90.0	
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.02	67.11	18.84	4.30	90.0	± 9.6 %
		Y	5.16	67.16	18.87		90.0	
		Z	4.84	66.97	18.50		90.0	

10081-CAB	CDMA2000 (1xRTT, RC3)	X	0.91	67.10	13.23	0.00	150.0	± 9.6 %
		Y	0.87	65.55	12.69		150.0	
		Z	0.76	65.80	11.60		150.0	
10082-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	X	0.67	60.00	4.34	4.77	80.0	± 9.6 %
		Y	0.83	60.00	4.98		80.0	
		Z	1.32	62.68	4.53		80.0	
10090-DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	117.37	27.43	6.56	60.0	± 9.6 %
		Y	100.00	118.23	28.46		60.0	
		Z	100.00	109.70	23.50		60.0	
10097-CAB	UMTS-FDD (HSDPA)	X	1.89	68.18	16.03	0.00	150.0	± 9.6 %
		Y	1.82	67.06	15.47		150.0	
		Z	1.87	68.73	15.97		150.0	
10098-CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.85	68.15	16.01	0.00	150.0	± 9.6 %
		Y	1.78	67.01	15.43		150.0	
		Z	1.83	68.68	15.95		150.0	
10099-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	12.41	103.93	38.44	9.56	60.0	± 9.6 %
		Y	14.05	103.81	37.62		60.0	
		Z	6.94	89.30	32.81		60.0	
10100-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.20	70.68	16.98	0.00	150.0	± 9.6 %
		Y	3.15	69.96	16.53		150.0	
		Z	3.05	70.44	16.91		150.0	
10101-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.27	67.67	16.10	0.00	150.0	± 9.6 %
		Y	3.29	67.34	15.87		150.0	
		Z	3.15	67.56	16.02		150.0	
10102-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.37	67.61	16.17	0.00	150.0	± 9.6 %
		Y	3.39	67.30	15.96		150.0	
		Z	3.26	67.54	16.10		150.0	
10103-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	6.70	77.76	21.71	3.98	65.0	± 9.6 %
		Y	7.25	78.01	21.66		65.0	
		Z	5.31	74.49	20.24		65.0	
10104-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	6.39	74.88	21.30	3.98	65.0	± 9.6 %
		Y	7.01	75.63	21.49		65.0	
		Z	5.41	72.53	20.08		65.0	
10105-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	5.93	73.22	20.87	3.98	65.0	± 9.6 %
		Y	6.37	73.62	20.93		65.0	
		Z	4.98	70.66	19.52		65.0	
10108-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.79	69.92	16.81	0.00	150.0	± 9.6 %
		Y	2.76	69.17	16.35		150.0	
		Z	2.63	69.76	16.75		150.0	
10109-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.93	67.55	16.01	0.00	150.0	± 9.6 %
		Y	2.94	67.14	15.76		150.0	
		Z	2.80	67.54	15.90		150.0	
10110-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.27	69.10	16.46	0.00	150.0	± 9.6 %
		Y	2.25	68.23	15.96		150.0	
		Z	2.13	69.06	16.32		150.0	
10111-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.65	68.45	16.32	0.00	150.0	± 9.6 %
		Y	2.64	67.76	16.00		150.0	
		Z	2.55	68.78	16.20		150.0	

10112-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.05	67.53	16.06	0.00	150.0	± 9.6 %
		Y	3.07	67.13	15.82		150.0	
		Z	2.92	67.58	15.97		150.0	
10113-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.80	68.56	16.43	0.00	150.0	± 9.6 %
		Y	2.80	67.90	16.13		150.0	
		Z	2.69	68.93	16.32		150.0	
10114-CAB	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.15	67.26	16.54	0.00	150.0	± 9.6 %
		Y	5.19	67.08	16.42		150.0	
		Z	4.99	67.20	16.47		150.0	
10115-CAB	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.43	67.37	16.60	0.00	150.0	± 9.6 %
		Y	5.52	67.34	16.56		150.0	
		Z	5.24	67.27	16.51		150.0	
10116-CAB	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.24	67.44	16.56	0.00	150.0	± 9.6 %
		Y	5.30	67.32	16.46		150.0	
		Z	5.08	67.39	16.50		150.0	
10117-CAB	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.11	67.11	16.48	0.00	150.0	± 9.6 %
		Y	5.16	66.99	16.39		150.0	
		Z	4.99	67.15	16.47		150.0	
10118-CAB	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.51	67.58	16.71	0.00	150.0	± 9.6 %
		Y	5.61	67.54	16.67		150.0	
		Z	5.31	67.44	16.61		150.0	
10119-CAB	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.22	67.40	16.54	0.00	150.0	± 9.6 %
		Y	5.27	67.25	16.44		150.0	
		Z	5.07	67.38	16.51		150.0	
10140-CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.41	67.63	16.10	0.00	150.0	± 9.6 %
		Y	3.43	67.31	15.88		150.0	
		Z	3.28	67.57	16.02		150.0	
10141-CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.53	67.71	16.25	0.00	150.0	± 9.6 %
		Y	3.55	67.40	16.05		150.0	
		Z	3.40	67.71	16.20		150.0	
10142-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	2.05	69.21	16.15	0.00	150.0	± 9.6 %
		Y	2.02	68.14	15.65		150.0	
		Z	1.90	69.18	15.79		150.0	
10143-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.53	69.32	16.06	0.00	150.0	± 9.6 %
		Y	2.50	68.40	15.76		150.0	
		Z	2.39	69.52	15.59		150.0	
10144-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.28	66.94	14.41	0.00	150.0	± 9.6 %
		Y	2.31	66.41	14.31		150.0	
		Z	2.06	66.49	13.57		150.0	
10145-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.26	65.57	12.06	0.00	150.0	± 9.6 %
		Y	1.33	65.51	12.47		150.0	
		Z	0.90	62.72	9.31		150.0	
10146-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	1.87	65.71	11.26	0.00	150.0	± 9.6 %
		Y	2.34	67.84	13.03		150.0	
		Z	1.05	60.97	7.27		150.0	
10147-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	2.17	67.47	12.23	0.00	150.0	± 9.6 %
		Y	2.79	70.16	14.23		150.0	
		Z	1.11	61.38	7.60		150.0	

10149-CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.93	67.61	16.06	0.00	150.0	± 9.6 %
		Y	2.95	67.20	15.81		150.0	
		Z	2.81	67.60	15.95		150.0	
10150-CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.06	67.58	16.10	0.00	150.0	± 9.6 %
		Y	3.08	67.18	15.86		150.0	
		Z	2.93	67.64	16.01		150.0	
10151-CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	7.47	81.50	23.31	3.98	65.0	± 9.6 %
		Y	8.13	81.64	23.19		65.0	
		Z	5.82	78.02	21.74		65.0	
10152-CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	5.96	75.09	21.13	3.98	65.0	± 9.6 %
		Y	6.59	75.82	21.34		65.0	
		Z	4.95	72.53	19.69		65.0	
10153-CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	6.33	76.00	21.87	3.98	65.0	± 9.6 %
		Y	6.98	76.72	22.08		65.0	
		Z	5.31	73.57	20.52		65.0	
10154-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.32	69.50	16.70	0.00	150.0	± 9.6 %
		Y	2.30	68.63	16.21		150.0	
		Z	2.17	69.43	16.55		150.0	
10155-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.65	68.47	16.34	0.00	150.0	± 9.6 %
		Y	2.64	67.77	16.01		150.0	
		Z	2.55	68.82	16.23		150.0	
10156-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.90	69.38	15.98	0.00	150.0	± 9.6 %
		Y	1.87	68.22	15.49		150.0	
		Z	1.73	69.10	15.35		150.0	
10157-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.13	67.61	14.49	0.00	150.0	± 9.6 %
		Y	2.14	66.94	14.37		150.0	
		Z	1.88	66.88	13.39		150.0	
10158-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.80	68.62	16.48	0.00	150.0	± 9.6 %
		Y	2.80	67.95	16.18		150.0	
		Z	2.70	69.02	16.37		150.0	
10159-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.24	68.05	14.76	0.00	150.0	± 9.6 %
		Y	2.25	67.38	14.65		150.0	
		Z	1.97	67.26	13.62		150.0	
10160-CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.79	68.96	16.56	0.00	150.0	± 9.6 %
		Y	2.78	68.29	16.16		150.0	
		Z	2.67	69.03	16.52		150.0	
10161-CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.95	67.54	16.03	0.00	150.0	± 9.6 %
		Y	2.97	67.10	15.79		150.0	
		Z	2.82	67.63	15.91		150.0	
10162-CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.06	67.69	16.14	0.00	150.0	± 9.6 %
		Y	3.08	67.22	15.89		150.0	
		Z	2.94	67.84	16.05		150.0	
10166-CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.60	69.71	19.22	3.01	150.0	± 9.6 %
		Y	3.76	69.53	19.10		150.0	
		Z	3.14	68.43	18.52		150.0	
10167-CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	4.49	72.92	19.79	3.01	150.0	± 9.6 %
		Y	4.71	72.48	19.58		150.0	
		Z	3.64	70.88	18.81		150.0	

10168-CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	4.99	75.19	21.10	3.01	150.0	± 9.6 %
		Y	5.19	74.57	20.82		150.0	
		Z	4.03	73.14	20.19		150.0	
10169-CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.02	69.31	19.06	3.01	150.0	± 9.6 %
		Y	3.27	69.70	19.15		150.0	
		Z	2.51	66.78	17.76		150.0	
10170-CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	4.24	75.66	21.52	3.01	150.0	± 9.6 %
		Y	4.60	75.59	21.37		150.0	
		Z	3.08	71.28	19.66		150.0	
10171-AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	3.48	71.52	18.79	3.01	150.0	± 9.6 %
		Y	3.80	71.54	18.73		150.0	
		Z	2.62	68.04	17.18		150.0	
10172-CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	9.86	97.03	31.31	6.02	65.0	± 9.6 %
		Y	11.94	97.60	31.03		65.0	
		Z	3.49	77.54	23.86		65.0	
10173-CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	35.90	116.24	34.55	6.02	65.0	± 9.6 %
		Y	33.36	111.72	33.12		65.0	
		Z	6.56	87.15	25.45		65.0	
10174-CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	21.48	105.16	30.85	6.02	65.0	± 9.6 %
		Y	20.65	101.59	29.68		65.0	
		Z	4.70	80.63	22.56		65.0	
10175-CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	2.98	69.02	18.83	3.01	150.0	± 9.6 %
		Y	3.23	69.39	18.90		150.0	
		Z	2.49	66.55	17.55		150.0	
10176-CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	4.24	75.68	21.53	3.01	150.0	± 9.6 %
		Y	4.61	75.61	21.38		150.0	
		Z	3.09	71.30	19.67		150.0	
10177-CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.01	69.16	18.92	3.01	150.0	± 9.6 %
		Y	3.26	69.54	19.00		150.0	
		Z	2.50	66.65	17.62		150.0	
10178-CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	4.21	75.48	21.42	3.01	150.0	± 9.6 %
		Y	4.56	75.38	21.26		150.0	
		Z	3.07	71.19	19.60		150.0	
10179-CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	3.83	73.49	20.03	3.01	150.0	± 9.6 %
		Y	4.16	73.42	19.91		150.0	
		Z	2.83	69.59	18.31		150.0	
10180-CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	3.47	71.46	18.75	3.01	150.0	± 9.6 %
		Y	3.79	71.47	18.68		150.0	
		Z	2.62	68.01	17.15		150.0	
10181-CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.00	69.14	18.91	3.01	150.0	± 9.6 %
		Y	3.26	69.52	18.99		150.0	
		Z	2.50	66.64	17.62		150.0	
10182-CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	4.20	75.46	21.41	3.01	150.0	± 9.6 %
		Y	4.55	75.36	21.25		150.0	
		Z	3.07	71.17	19.59		150.0	
10183-AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	3.46	71.44	18.74	3.01	150.0	± 9.6 %
		Y	3.78	71.45	18.67		150.0	
		Z	2.62	68.00	17.14		150.0	

10184-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	3.01	69.18	18.93	3.01	150.0	± 9.6 %
		Y	3.27	69.56	19.01		150.0	
		Z	2.51	66.67	17.63		150.0	
10185-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	4.22	75.53	21.45	3.01	150.0	± 9.6 %
		Y	4.57	75.42	21.28		150.0	
		Z	3.08	71.23	19.63		150.0	
10186-AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	3.48	71.51	18.77	3.01	150.0	± 9.6 %
		Y	3.80	71.51	18.70		150.0	
		Z	2.63	68.05	17.17		150.0	
10187-CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.02	69.24	19.00	3.01	150.0	± 9.6 %
		Y	3.28	69.61	19.07		150.0	
		Z	2.52	66.73	17.71		150.0	
10188-CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	4.35	76.17	21.80	3.01	150.0	± 9.6 %
		Y	4.72	76.08	21.65		150.0	
		Z	3.15	71.69	19.93		150.0	
10189-AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	3.56	71.93	19.04	3.01	150.0	± 9.6 %
		Y	3.88	71.93	18.97		150.0	
		Z	2.67	68.37	17.41		150.0	
10193-CAB	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.54	66.68	16.24	0.00	150.0	± 9.6 %
		Y	4.59	66.47	16.13		150.0	
		Z	4.40	66.85	16.19		150.0	
10194-CAB	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.70	66.99	16.36	0.00	150.0	± 9.6 %
		Y	4.77	66.80	16.26		150.0	
		Z	4.55	67.09	16.33		150.0	
10195-CAB	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.74	67.02	16.38	0.00	150.0	± 9.6 %
		Y	4.81	66.83	16.27		150.0	
		Z	4.58	67.11	16.34		150.0	
10196-CAB	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.54	66.74	16.25	0.00	150.0	± 9.6 %
		Y	4.60	66.55	16.16		150.0	
		Z	4.39	66.85	16.19		150.0	
10197-CAB	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.72	67.01	16.37	0.00	150.0	± 9.6 %
		Y	4.78	66.83	16.27		150.0	
		Z	4.56	67.10	16.33		150.0	
10198-CAB	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.75	67.04	16.39	0.00	150.0	± 9.6 %
		Y	4.81	66.85	16.28		150.0	
		Z	4.58	67.11	16.34		150.0	
10219-CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.49	66.76	16.22	0.00	150.0	± 9.6 %
		Y	4.55	66.56	16.12		150.0	
		Z	4.34	66.89	16.16		150.0	
10220-CAB	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.71	66.98	16.36	0.00	150.0	± 9.6 %
		Y	4.78	66.81	16.26		150.0	
		Z	4.55	67.06	16.32		150.0	
10221-CAB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.75	66.96	16.37	0.00	150.0	± 9.6 %
		Y	4.82	66.78	16.27		150.0	
		Z	4.59	67.05	16.33		150.0	
10222-CAB	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.08	67.12	16.48	0.00	150.0	± 9.6 %
		Y	5.14	67.00	16.39		150.0	
		Z	4.96	67.13	16.45		150.0	

10223-CAB	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.38	67.33	16.60	0.00	150.0	± 9.6 %
		Y	5.45	67.20	16.51		150.0	
		Z	5.23	67.33	16.56		150.0	
10224-CAB	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	5.13	67.23	16.46	0.00	150.0	± 9.6 %
		Y	5.19	67.11	16.37		150.0	
		Z	4.99	67.25	16.44		150.0	
10225-CAB	UMTS-FDD (HSPA+)	X	2.82	66.29	15.44	0.00	150.0	± 9.6 %
		Y	2.85	65.89	15.31		150.0	
		Z	2.69	66.42	15.13		150.0	
10226-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	40.58	118.73	35.31	6.02	65.0	± 9.6 %
		Y	36.88	113.76	33.77		65.0	
		Z	6.94	88.26	25.92		65.0	
10227-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	36.33	114.29	33.35	6.02	65.0	± 9.6 %
		Y	31.30	108.87	31.78		65.0	
		Z	6.95	87.06	24.80		65.0	
10228-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	13.65	104.05	33.59	6.02	65.0	± 9.6 %
		Y	18.81	107.23	34.08		65.0	
		Z	4.50	82.80	25.97		65.0	
10229-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	36.18	116.36	34.59	6.02	65.0	± 9.6 %
		Y	33.58	111.82	33.15		65.0	
		Z	6.61	87.25	25.49		65.0	
10230-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	32.38	112.10	32.69	6.02	65.0	± 9.6 %
		Y	28.70	107.19	31.24		65.0	
		Z	6.54	85.97	24.36		65.0	
10231-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	12.84	102.68	33.09	6.02	65.0	± 9.6 %
		Y	17.62	105.78	33.56		65.0	
		Z	4.35	82.09	25.62		65.0	
10232-CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	36.15	116.36	34.59	6.02	65.0	± 9.6 %
		Y	33.55	111.82	33.15		65.0	
		Z	6.59	87.23	25.48		65.0	
10233-CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	32.28	112.07	32.68	6.02	65.0	± 9.6 %
		Y	28.65	107.18	31.24		65.0	
		Z	6.52	85.93	24.35		65.0	
10234-CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	12.22	101.47	32.58	6.02	65.0	± 9.6 %
		Y	16.65	104.42	33.04		65.0	
		Z	4.24	81.51	25.28		65.0	
10235-CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	36.31	116.46	34.62	6.02	65.0	± 9.6 %
		Y	33.66	111.90	33.18		65.0	
		Z	6.60	87.26	25.49		65.0	
10236-CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	33.06	112.44	32.77	6.02	65.0	± 9.6 %
		Y	29.12	107.43	31.30		65.0	
		Z	6.60	86.11	24.40		65.0	
10237-CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	12.90	102.82	33.13	6.02	65.0	± 9.6 %
		Y	17.72	105.93	33.61		65.0	
		Z	4.35	82.12	25.64		65.0	
10238-CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	36.09	116.34	34.59	6.02	65.0	± 9.6 %
		Y	33.52	111.82	33.15		65.0	
		Z	6.58	87.20	25.47		65.0	

10239-CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	32.17	112.03	32.67	6.02	65.0	± 9.6 %
		Y	28.59	107.16	31.23		65.0	
		Z	6.49	85.89	24.34		65.0	
10240-CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	12.85	102.75	33.11	6.02	65.0	± 9.6 %
		Y	17.65	105.86	33.59		65.0	
		Z	4.34	82.09	25.63		65.0	
10241-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	8.52	83.40	26.72	6.98	65.0	± 9.6 %
		Y	9.34	83.46	26.63		65.0	
		Z	6.49	79.39	24.77		65.0	
10242-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	7.72	81.29	25.79	6.98	65.0	± 9.6 %
		Y	8.22	80.66	25.42		65.0	
		Z	5.72	76.85	23.63		65.0	
10243-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	5.95	76.72	24.82	6.98	65.0	± 9.6 %
		Y	6.41	76.67	24.65		65.0	
		Z	4.75	73.34	22.98		65.0	
10244-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	6.67	78.45	19.67	3.98	65.0	± 9.6 %
		Y	8.20	80.91	21.14		65.0	
		Z	3.50	69.23	14.35		65.0	
10245-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	6.39	77.48	19.23	3.98	65.0	± 9.6 %
		Y	7.92	80.07	20.76		65.0	
		Z	3.42	68.65	14.03		65.0	
10246-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	8.15	85.97	22.95	3.98	65.0	± 9.6 %
		Y	9.24	86.80	23.49		65.0	
		Z	4.03	75.23	17.77		65.0	
10247-CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	5.50	76.42	20.00	3.98	65.0	± 9.6 %
		Y	6.26	77.49	20.66		65.0	
		Z	3.95	71.61	16.94		65.0	
10248-CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	5.40	75.54	19.60	3.98	65.0	± 9.6 %
		Y	6.16	76.66	20.28		65.0	
		Z	3.89	70.88	16.59		65.0	
10249-CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	9.66	89.43	25.19	3.98	65.0	± 9.6 %
		Y	10.35	89.11	25.13		65.0	
		Z	5.64	80.91	21.33		65.0	
10250-CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	6.21	78.20	22.44	3.98	65.0	± 9.6 %
		Y	6.93	79.00	22.73		65.0	
		Z	4.95	74.96	20.57		65.0	
10251-CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	5.85	75.76	21.03	3.98	65.0	± 9.6 %
		Y	6.49	76.44	21.31		65.0	
		Z	4.69	72.73	19.17		65.0	
10252-CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	8.41	86.24	25.10	3.98	65.0	± 9.6 %
		Y	9.13	86.11	24.91		65.0	
		Z	5.95	81.04	22.79		65.0	
10253-CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	5.81	74.45	20.83	3.98	65.0	± 9.6 %
		Y	6.39	75.11	21.05		65.0	
		Z	4.88	72.13	19.42		65.0	
10254-CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	6.16	75.32	21.51	3.98	65.0	± 9.6 %
		Y	6.77	75.99	21.73		65.0	
		Z	5.19	73.05	20.14		65.0	

10255-CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	6.96	80.42	23.12	3.98	65.0	± 9.6 %
		Y	7.59	80.64	23.06		65.0	
		Z	5.51	77.21	21.58		65.0	
10256-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	4.89	73.41	16.49	3.98	65.0	± 9.6 %
		Y	6.68	77.30	18.76		65.0	
		Z	2.46	64.75	10.88		65.0	
10257-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	4.63	72.26	15.89	3.98	65.0	± 9.6 %
		Y	6.35	76.13	18.19		65.0	
		Z	2.42	64.27	10.52		65.0	
10258-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	5.50	79.01	19.45	3.98	65.0	± 9.6 %
		Y	7.01	81.77	20.90		65.0	
		Z	2.56	68.30	13.54		65.0	
10259-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	5.80	77.14	20.90	3.98	65.0	± 9.6 %
		Y	6.53	78.01	21.38		65.0	
		Z	4.38	73.08	18.36		65.0	
10260-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	5.78	76.67	20.70	3.98	65.0	± 9.6 %
		Y	6.51	77.60	21.22		65.0	
		Z	4.39	72.73	18.19		65.0	
10261-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	8.27	86.47	24.62	3.98	65.0	± 9.6 %
		Y	9.00	86.40	24.57		65.0	
		Z	5.46	80.05	21.57		65.0	
10262-CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	6.19	78.15	22.39	3.98	65.0	± 9.6 %
		Y	6.92	78.95	22.69		65.0	
		Z	4.94	74.88	20.51		65.0	
10263-CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	5.84	75.72	21.02	3.98	65.0	± 9.6 %
		Y	6.48	76.42	21.31		65.0	
		Z	4.68	72.71	19.16		65.0	
10264-CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	8.30	85.98	24.99	3.98	65.0	± 9.6 %
		Y	9.03	85.88	24.80		65.0	
		Z	5.88	80.81	22.67		65.0	
10265-CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	5.96	75.09	21.13	3.98	65.0	± 9.6 %
		Y	6.59	75.82	21.35		65.0	
		Z	4.95	72.53	19.70		65.0	
10266-CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	6.33	75.99	21.86	3.98	65.0	± 9.6 %
		Y	6.97	76.70	22.07		65.0	
		Z	5.31	73.56	20.51		65.0	
10267-CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	7.45	81.44	23.28	3.98	65.0	± 9.6 %
		Y	8.11	81.58	23.17		65.0	
		Z	5.81	77.97	21.72		65.0	
10268-CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	6.50	74.59	21.27	3.98	65.0	± 9.6 %
		Y	7.11	75.29	21.47		65.0	
		Z	5.58	72.49	20.14		65.0	
10269-CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	6.45	74.07	21.10	3.98	65.0	± 9.6 %
		Y	7.04	74.76	21.30		65.0	
		Z	5.59	72.11	20.01		65.0	
10270-CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	6.83	77.38	21.77	3.98	65.0	± 9.6 %
		Y	7.44	77.78	21.79		65.0	
		Z	5.71	75.01	20.64		65.0	

10274-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.62	66.75	15.42	0.00	150.0	± 9.6 %
		Y	2.61	66.15	15.17		150.0	
		Z	2.54	67.07	15.23		150.0	
10275-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.67	68.55	15.99	0.00	150.0	± 9.6 %
		Y	1.61	67.31	15.31		150.0	
		Z	1.61	68.63	15.84		150.0	
10277-CAA	PHS (QPSK)	X	1.74	60.91	6.37	9.03	50.0	± 9.6 %
		Y	2.31	62.75	8.24		50.0	
		Z	1.34	59.32	4.61		50.0	
10278-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	9.23	83.71	19.86	9.03	50.0	± 9.6 %
		Y	16.13	92.59	23.80		50.0	
		Z	2.80	66.68	11.50		50.0	
10279-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	9.55	84.14	20.09	9.03	50.0	± 9.6 %
		Y	16.22	92.62	23.87		50.0	
		Z	2.90	67.01	11.74		50.0	
10290-AAB	CDMA2000, RC1, SO55, Full Rate	X	1.55	69.78	14.51	0.00	150.0	± 9.6 %
		Y	1.48	68.23	14.09		150.0	
		Z	1.19	67.52	12.47		150.0	
10291-AAB	CDMA2000, RC3, SO55, Full Rate	X	0.89	66.83	13.08	0.00	150.0	± 9.6 %
		Y	0.85	65.35	12.57		150.0	
		Z	0.74	65.55	11.46		150.0	
10292-AAB	CDMA2000, RC3, SO32, Full Rate	X	1.27	72.61	16.13	0.00	150.0	± 9.6 %
		Y	1.03	68.80	14.67		150.0	
		Z	1.20	72.32	14.93		150.0	
10293-AAB	CDMA2000, RC3, SO3, Full Rate	X	2.34	81.60	20.09	0.00	150.0	± 9.6 %
		Y	1.43	73.64	17.27		150.0	
		Z	3.93	87.90	20.92		150.0	
10295-AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	16.32	98.49	29.02	9.03	50.0	± 9.6 %
		Y	11.98	92.39	27.58		50.0	
		Z	18.77	96.90	26.52		50.0	
10297-AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.80	70.02	16.88	0.00	150.0	± 9.6 %
		Y	2.77	69.27	16.41		150.0	
		Z	2.65	69.87	16.82		150.0	
10298-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.62	68.28	14.44	0.00	150.0	± 9.6 %
		Y	1.62	67.40	14.26		150.0	
		Z	1.32	66.56	12.71		150.0	
10299-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	2.59	69.34	14.00	0.00	150.0	± 9.6 %
		Y	2.92	70.30	15.01		150.0	
		Z	1.54	64.05	10.22		150.0	
10300-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	1.92	64.86	11.14	0.00	150.0	± 9.6 %
		Y	2.24	65.95	12.27		150.0	
		Z	1.26	61.60	8.20		150.0	
10301-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.85	66.06	17.86	4.17	50.0	± 9.6 %
		Y	4.97	65.84	17.76		50.0	
		Z	4.42	65.27	17.23		50.0	
10302-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.22	66.19	18.31	4.96	50.0	± 9.6 %
		Y	5.38	66.17	18.31		50.0	
		Z	4.86	65.76	17.88		50.0	

10303-AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	4.96	65.79	18.13	4.96	50.0	± 9.6 %
		Y	5.14	65.84	18.17		50.0	
		Z	4.61	65.34	17.65		50.0	
10304-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.78	65.69	17.62	4.17	50.0	± 9.6 %
		Y	4.94	65.66	17.62		50.0	
		Z	4.45	65.35	17.22		50.0	
10305-AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.24	66.91	19.40	6.02	35.0	± 9.6 %
		Y	4.54	67.57	19.86		35.0	
		Z	3.84	65.89	18.29		35.0	
10306-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.62	66.22	19.11	6.02	35.0	± 9.6 %
		Y	4.86	66.59	19.39		35.0	
		Z	4.26	65.53	18.31		35.0	
10307-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.50	66.31	19.05	6.02	35.0	± 9.6 %
		Y	4.77	66.81	19.39		35.0	
		Z	4.12	65.47	18.17		35.0	
10308-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	4.47	66.49	19.18	6.02	35.0	± 9.6 %
		Y	4.73	66.98	19.51		35.0	
		Z	4.09	65.63	18.30		35.0	
10309-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	4.68	66.45	19.27	6.02	35.0	± 9.6 %
		Y	4.93	66.86	19.56		35.0	
		Z	4.28	65.63	18.41		35.0	
10310-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	4.56	66.25	19.08	6.02	35.0	± 9.6 %
		Y	4.81	66.65	19.36		35.0	
		Z	4.20	65.54	18.28		35.0	
10311-AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.16	69.26	16.50	0.00	150.0	± 9.6 %
		Y	3.13	68.60	16.08		150.0	
		Z	3.01	69.09	16.45		150.0	
10313-AAA	IDEN 1:3	X	8.00	86.23	21.34	6.99	70.0	± 9.6 %
		Y	8.53	85.21	20.95		70.0	
		Z	3.31	75.28	17.31		70.0	
10314-AAA	IDEN 1:6	X	12.68	100.31	29.33	10.00	30.0	± 9.6 %
		Y	13.31	98.73	28.67		30.0	
		Z	5.19	85.23	24.17		30.0	
10315-AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.10	64.07	15.53	0.17	150.0	± 9.6 %
		Y	1.10	63.56	15.08		150.0	
		Z	1.08	63.95	15.31		150.0	
10316-AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	X	4.59	66.75	16.41	0.17	150.0	± 9.6 %
		Y	4.66	66.58	16.32		150.0	
		Z	4.43	66.78	16.29		150.0	
10317-AAB	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.59	66.75	16.41	0.17	150.0	± 9.6 %
		Y	4.66	66.58	16.32		150.0	
		Z	4.43	66.78	16.29		150.0	
10400-AAC	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.69	67.06	16.37	0.00	150.0	± 9.6 %
		Y	4.77	66.86	16.25		150.0	
		Z	4.51	67.11	16.31		150.0	
10401-AAC	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.41	67.26	16.54	0.00	150.0	± 9.6 %
		Y	5.45	67.06	16.42		150.0	
		Z	5.18	66.94	16.33		150.0	

10402-AAC	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.65	67.49	16.51	0.00	150.0	± 9.6 %
		Y	5.72	67.43	16.45		150.0	
		Z	5.51	67.47	16.48		150.0	
10403-AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	1.55	69.78	14.51	0.00	115.0	± 9.6 %
		Y	1.48	68.23	14.09		115.0	
		Z	1.19	67.52	12.47		115.0	
10404-AAB	CDMA2000 (1xEV-DO, Rev. A)	X	1.55	69.78	14.51	0.00	115.0	± 9.6 %
		Y	1.48	68.23	14.09		115.0	
		Z	1.19	67.52	12.47		115.0	
10406-AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	120.41	29.76	0.00	100.0	± 9.6 %
		Y	19.72	99.25	25.38		100.0	
		Z	22.86	100.95	24.14		100.0	
10410-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	125.71	31.88	3.23	80.0	± 9.6 %
		Y	100.00	124.16	31.78		80.0	
		Z	8.15	91.76	22.46		80.0	
10415-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.03	63.26	14.92	0.00	150.0	± 9.6 %
		Y	1.02	62.63	14.41		150.0	
		Z	1.03	63.39	14.88		150.0	
10416-AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	X	4.54	66.72	16.31	0.00	150.0	± 9.6 %
		Y	4.59	66.51	16.19		150.0	
		Z	4.40	66.84	16.26		150.0	
10417-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.54	66.72	16.31	0.00	150.0	± 9.6 %
		Y	4.59	66.51	16.19		150.0	
		Z	4.40	66.84	16.26		150.0	
10418-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)	X	4.53	66.89	16.33	0.00	150.0	± 9.6 %
		Y	4.58	66.66	16.20		150.0	
		Z	4.40	67.05	16.32		150.0	
10419-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)	X	4.55	66.83	16.33	0.00	150.0	± 9.6 %
		Y	4.60	66.61	16.21		150.0	
		Z	4.41	66.98	16.30		150.0	
10422-AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.66	66.83	16.34	0.00	150.0	± 9.6 %
		Y	4.72	66.62	16.23		150.0	
		Z	4.52	66.95	16.31		150.0	
10423-AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.82	67.13	16.45	0.00	150.0	± 9.6 %
		Y	4.90	66.96	16.35		150.0	
		Z	4.65	67.21	16.40		150.0	
10424-AAA	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.75	67.09	16.43	0.00	150.0	± 9.6 %
		Y	4.82	66.90	16.32		150.0	
		Z	4.58	67.17	16.38		150.0	
10425-AAA	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.35	67.37	16.60	0.00	150.0	± 9.6 %
		Y	5.42	67.27	16.52		150.0	
		Z	5.19	67.35	16.55		150.0	
10426-AAA	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.36	67.42	16.62	0.00	150.0	± 9.6 %
		Y	5.42	67.27	16.52		150.0	
		Z	5.21	67.42	16.58		150.0	

10427-AAA	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.37	67.38	16.60	0.00	150.0	± 9.6 %
		Y	5.43	67.25	16.50		150.0	
		Z	5.18	67.23	16.48		150.0	
10430-AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.24	70.83	18.17	0.00	150.0	± 9.6 %
		Y	4.26	70.25	18.02		150.0	
		Z	4.20	71.89	18.27		150.0	
10431-AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.21	67.30	16.30	0.00	150.0	± 9.6 %
		Y	4.28	67.03	16.19		150.0	
		Z	4.03	67.45	16.18		150.0	
10432-AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.51	67.15	16.38	0.00	150.0	± 9.6 %
		Y	4.58	66.93	16.27		150.0	
		Z	4.34	67.27	16.32		150.0	
10433-AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.76	67.12	16.45	0.00	150.0	± 9.6 %
		Y	4.83	66.94	16.34		150.0	
		Z	4.59	67.20	16.40		150.0	
10434-AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.34	71.72	18.14	0.00	150.0	± 9.6 %
		Y	4.35	71.03	17.99		150.0	
		Z	4.31	72.81	18.12		150.0	
10435-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	125.48	31.77	3.23	80.0	± 9.6 %
		Y	100.00	123.97	31.69		80.0	
		Z	7.63	90.76	22.11		80.0	
10447-AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.51	67.35	15.60	0.00	150.0	± 9.6 %
		Y	3.58	66.99	15.55		150.0	
		Z	3.28	67.36	15.16		150.0	
10448-AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.06	67.09	16.17	0.00	150.0	± 9.6 %
		Y	4.12	66.80	16.05		150.0	
		Z	3.89	67.25	16.05		150.0	
10449-AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.33	66.98	16.28	0.00	150.0	± 9.6 %
		Y	4.39	66.75	16.16		150.0	
		Z	4.18	67.10	16.22		150.0	
10450-AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.53	66.89	16.30	0.00	150.0	± 9.6 %
		Y	4.58	66.69	16.19		150.0	
		Z	4.39	66.98	16.26		150.0	
10451-AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.39	67.51	15.20	0.00	150.0	± 9.6 %
		Y	3.48	67.19	15.21		150.0	
		Z	3.10	67.22	14.48		150.0	
10456-AAA	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.22	67.91	16.74	0.00	150.0	± 9.6 %
		Y	6.28	67.83	16.68		150.0	
		Z	6.11	67.90	16.72		150.0	
10457-AAA	UMTS-FDD (DC-HSDPA)	X	3.80	65.37	16.02	0.00	150.0	± 9.6 %
		Y	3.83	65.15	15.90		150.0	
		Z	3.74	65.57	15.99		150.0	
10458-AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.21	66.83	14.57	0.00	150.0	± 9.6 %
		Y	3.31	66.55	14.68		150.0	
		Z	2.82	66.01	13.39		150.0	
10459-AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	4.29	65.14	15.57	0.00	150.0	± 9.6 %
		Y	4.36	64.71	15.51		150.0	
		Z	4.04	65.27	15.07		150.0	

10460-AAA	UMTS-FDD (WCDMA, AMR)	X	0.96	69.26	16.86	0.00	150.0	± 9.6 %
		Y	0.88	67.02	15.53		150.0	
		Z	0.94	69.35	16.76		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	131.25	34.47	3.29	80.0	± 9.6 %
		Y	100.00	128.59	33.89		80.0	
		Z	3.16	81.29	20.28		80.0	
10462-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	18.15	90.54	19.55	3.23	80.0	± 9.6 %
		Y	100.00	110.06	25.23		80.0	
		Z	0.71	60.00	7.72		80.0	
10463-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.32	68.92	12.27	3.23	80.0	± 9.6 %
		Y	12.78	85.50	18.46		80.0	
		Z	0.72	60.00	7.06		80.0	
10464-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	128.50	33.02	3.23	80.0	± 9.6 %
		Y	100.00	126.31	32.66		80.0	
		Z	2.43	77.27	18.20		80.0	
10465-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	7.48	81.44	16.98	3.23	80.0	± 9.6 %
		Y	53.06	102.63	23.42		80.0	
		Z	0.71	60.00	7.65		80.0	
10466-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.86	66.75	11.37	3.23	80.0	± 9.6 %
		Y	7.10	79.26	16.56		80.0	
		Z	0.72	60.00	7.01		80.0	
10467-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	128.82	33.16	3.23	80.0	± 9.6 %
		Y	100.00	126.57	32.78		80.0	
		Z	2.60	78.29	18.60		80.0	
10468-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	9.21	83.60	17.62	3.23	80.0	± 9.6 %
		Y	76.07	106.68	24.37		80.0	
		Z	0.70	60.00	7.67		80.0	
10469-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.87	66.82	11.40	3.23	80.0	± 9.6 %
		Y	7.22	79.45	16.62		80.0	
		Z	0.72	60.00	7.01		80.0	
10470-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	128.87	33.17	3.23	80.0	± 9.6 %
		Y	100.00	126.61	32.79		80.0	
		Z	2.61	78.33	18.61		80.0	
10471-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	9.03	83.37	17.54	3.23	80.0	± 9.6 %
		Y	75.72	106.57	24.32		80.0	
		Z	0.70	60.00	7.66		80.0	
10472-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.85	66.72	11.34	3.23	80.0	± 9.6 %
		Y	7.17	79.36	16.58		80.0	
		Z	0.72	60.00	6.99		80.0	
10473-AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	128.83	33.15	3.23	80.0	± 9.6 %
		Y	100.00	126.57	32.77		80.0	
		Z	2.60	78.28	18.59		80.0	
10474-AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	8.86	83.19	17.49	3.23	80.0	± 9.6 %
		Y	73.20	106.22	24.25		80.0	
		Z	0.70	60.00	7.66		80.0	
10475-AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.84	66.67	11.33	3.23	80.0	± 9.6 %
		Y	7.07	79.22	16.54		80.0	
		Z	0.72	60.00	6.99		80.0	

10477-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	7.55	81.52	16.98	3.23	80.0	± 9.6 %
		Y	56.45	103.26	23.54		80.0	
		Z	0.70	60.00	7.63		80.0	
10478-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.82	66.56	11.27	3.23	80.0	± 9.6 %
		Y	6.95	79.03	16.47		80.0	
		Z	0.72	60.00	6.98		80.0	
10479-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	10.99	93.23	25.61	3.23	80.0	± 9.6 %
		Y	9.79	90.18	24.96		80.0	
		Z	4.54	80.48	20.41		80.0	
10480-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	12.16	88.23	21.88	3.23	80.0	± 9.6 %
		Y	11.98	87.55	22.28		80.0	
		Z	2.88	70.37	14.48		80.0	
10481-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	8.71	82.91	19.80	3.23	80.0	± 9.6 %
		Y	9.82	84.02	20.80		80.0	
		Z	2.18	66.77	12.57		80.0	
10482-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.05	77.33	19.19	2.23	80.0	± 9.6 %
		Y	4.17	76.68	19.19		80.0	
		Z	2.07	68.66	14.58		80.0	
10483-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.93	75.57	17.70	2.23	80.0	± 9.6 %
		Y	6.34	78.50	19.36		80.0	
		Z	1.80	63.38	11.04		80.0	
10484-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.47	74.01	17.11	2.23	80.0	± 9.6 %
		Y	5.79	76.98	18.82		80.0	
		Z	1.76	62.89	10.79		80.0	
10485-AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.05	77.49	20.34	2.23	80.0	± 9.6 %
		Y	4.20	76.76	20.09		80.0	
		Z	2.71	72.24	17.50		80.0	
10486-AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.54	71.63	17.34	2.23	80.0	± 9.6 %
		Y	3.76	71.58	17.54		80.0	
		Z	2.51	67.51	14.60		80.0	
10487-AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.49	71.03	17.07	2.23	80.0	± 9.6 %
		Y	3.74	71.08	17.31		80.0	
		Z	2.49	67.04	14.35		80.0	
10488-AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.92	74.84	20.03	2.23	80.0	± 9.6 %
		Y	4.21	74.77	19.87		80.0	
		Z	2.99	71.49	18.31		80.0	
10489-AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.58	70.14	18.01	2.23	80.0	± 9.6 %
		Y	3.82	70.22	18.04		80.0	
		Z	3.03	68.36	16.75		80.0	
10490-AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.66	69.89	17.90	2.23	80.0	± 9.6 %
		Y	3.90	69.97	17.95		80.0	
		Z	3.10	68.21	16.67		80.0	
10491-AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.00	72.50	19.16	2.23	80.0	± 9.6 %
		Y	4.28	72.62	19.08		80.0	
		Z	3.25	70.05	17.90		80.0	
10492-AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.86	68.99	17.79	2.23	80.0	± 9.6 %
		Y	4.11	69.18	17.85		80.0	
		Z	3.37	67.61	16.86		80.0	

10493-AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.92	68.82	17.72	2.23	80.0	± 9.6 %
		Y	4.17	69.02	17.78		80.0	
		Z	3.43	67.50	16.80		80.0	
10494-AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.43	74.41	19.78	2.23	80.0	± 9.6 %
		Y	4.75	74.52	19.68		80.0	
		Z	3.49	71.39	18.37		80.0	
10495-AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.90	69.39	18.01	2.23	80.0	± 9.6 %
		Y	4.16	69.65	18.06		80.0	
		Z	3.39	67.86	17.06		80.0	
10496-AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.97	69.05	17.88	2.23	80.0	± 9.6 %
		Y	4.22	69.30	17.94		80.0	
		Z	3.47	67.65	16.99		80.0	
10497-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.87	72.14	16.05	2.23	80.0	± 9.6 %
		Y	3.23	72.92	16.83		80.0	
		Z	1.19	62.14	10.12		80.0	
10498-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.73	63.11	10.85	2.23	80.0	± 9.6 %
		Y	2.27	65.45	12.56		80.0	
		Z	1.15	60.00	7.68		80.0	
10499-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.65	62.30	10.28	2.23	80.0	± 9.6 %
		Y	2.18	64.69	12.05		80.0	
		Z	1.17	60.00	7.51		80.0	
10500-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.87	75.87	20.03	2.23	80.0	± 9.6 %
		Y	4.07	75.40	19.81		80.0	
		Z	2.80	71.83	17.80		80.0	
10501-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.57	71.05	17.60	2.23	80.0	± 9.6 %
		Y	3.78	70.97	17.70		80.0	
		Z	2.79	68.23	15.59		80.0	
10502-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.61	70.84	17.44	2.23	80.0	± 9.6 %
		Y	3.84	70.79	17.56		80.0	
		Z	2.82	68.03	15.41		80.0	
10503-AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.87	74.62	19.92	2.23	80.0	± 9.6 %
		Y	4.15	74.55	19.77		80.0	
		Z	2.95	71.29	18.21		80.0	
10504-AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.57	70.04	17.95	2.23	80.0	± 9.6 %
		Y	3.80	70.13	17.99		80.0	
		Z	3.01	68.26	16.69		80.0	
10505-AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.64	69.79	17.85	2.23	80.0	± 9.6 %
		Y	3.88	69.88	17.89		80.0	
		Z	3.09	68.12	16.62		80.0	
10506-AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.39	74.26	19.71	2.23	80.0	± 9.6 %
		Y	4.71	74.37	19.61		80.0	
		Z	3.46	71.26	18.30		80.0	
10507-AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.89	69.33	17.97	2.23	80.0	± 9.6 %
		Y	4.14	69.59	18.03		80.0	
		Z	3.38	67.80	17.02		80.0	

10508-AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.95	68.98	17.84	2.23	80.0	± 9.6 %
		Y	4.21	69.23	17.90		80.0	
		Z	3.46	67.59	16.95		80.0	
10509-AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.62	72.40	18.91	2.23	80.0	± 9.6 %
		Y	4.92	72.59	18.86		80.0	
		Z	3.86	70.20	17.85		80.0	
10510-AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.34	68.87	17.84	2.23	80.0	± 9.6 %
		Y	4.61	69.18	17.91		80.0	
		Z	3.85	67.53	17.06		80.0	
10511-AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.39	68.57	17.74	2.23	80.0	± 9.6 %
		Y	4.65	68.86	17.81		80.0	
		Z	3.92	67.35	17.00		80.0	
10512-AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.95	74.43	19.59	2.23	80.0	± 9.6 %
		Y	5.29	74.60	19.52		80.0	
		Z	3.97	71.52	18.28		80.0	
10513-AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.24	69.19	17.98	2.23	80.0	± 9.6 %
		Y	4.52	69.55	18.06		80.0	
		Z	3.73	67.67	17.13		80.0	
10514-AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.25	68.69	17.82	2.23	80.0	± 9.6 %
		Y	4.51	69.03	17.90		80.0	
		Z	3.78	67.33	17.02		80.0	
10515-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.99	63.46	15.00	0.00	150.0	± 9.6 %
		Y	0.98	62.78	14.45		150.0	
		Z	0.99	63.59	14.96		150.0	
10516-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.69	72.54	18.63	0.00	150.0	± 9.6 %
		Y	0.56	68.11	16.08		150.0	
		Z	0.67	72.15	18.45		150.0	
10517-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.85	65.62	15.80	0.00	150.0	± 9.6 %
		Y	0.82	64.42	14.91		150.0	
		Z	0.84	65.62	15.72		150.0	
10518-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.53	66.80	16.29	0.00	150.0	± 9.6 %
		Y	4.59	66.58	16.17		150.0	
		Z	4.39	66.94	16.26		150.0	
10519-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.71	67.02	16.40	0.00	150.0	± 9.6 %
		Y	4.78	66.84	16.30		150.0	
		Z	4.54	67.11	16.34		150.0	
10520-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.56	66.98	16.32	0.00	150.0	± 9.6 %
		Y	4.63	66.80	16.22		150.0	
		Z	4.40	67.05	16.26		150.0	
10521-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.49	66.97	16.31	0.00	150.0	± 9.6 %
		Y	4.56	66.79	16.20		150.0	
		Z	4.33	67.02	16.25		150.0	
10522-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.56	67.08	16.40	0.00	150.0	± 9.6 %
		Y	4.62	66.86	16.28		150.0	
		Z	4.38	67.14	16.34		150.0	

10523-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.44	66.96	16.26	0.00	150.0	± 9.6 %
		Y	4.50	66.72	16.12		150.0	
		Z	4.31	67.14	16.26		150.0	
10524-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.50	67.00	16.37	0.00	150.0	± 9.6 %
		Y	4.57	66.78	16.25		150.0	
		Z	4.33	67.10	16.33		150.0	
10525-AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.49	66.06	15.96	0.00	150.0	± 9.6 %
		Y	4.54	65.82	15.83		150.0	
		Z	4.36	66.21	15.95		150.0	
10526-AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.65	66.41	16.10	0.00	150.0	± 9.6 %
		Y	4.72	66.20	15.98		150.0	
		Z	4.49	66.49	16.07		150.0	
10527-AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.58	66.37	16.05	0.00	150.0	± 9.6 %
		Y	4.64	66.16	15.92		150.0	
		Z	4.42	66.47	16.01		150.0	
10528-AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.59	66.39	16.08	0.00	150.0	± 9.6 %
		Y	4.65	66.18	15.96		150.0	
		Z	4.43	66.48	16.04		150.0	
10529-AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.59	66.39	16.08	0.00	150.0	± 9.6 %
		Y	4.65	66.18	15.96		150.0	
		Z	4.43	66.48	16.04		150.0	
10531-AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.58	66.48	16.09	0.00	150.0	± 9.6 %
		Y	4.65	66.29	15.97		150.0	
		Z	4.40	66.51	16.02		150.0	
10532-AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.44	66.34	16.02	0.00	150.0	± 9.6 %
		Y	4.51	66.14	15.90		150.0	
		Z	4.28	66.37	15.96		150.0	
10533-AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.60	66.44	16.07	0.00	150.0	± 9.6 %
		Y	4.66	66.22	15.94		150.0	
		Z	4.44	66.56	16.05		150.0	
10534-AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.13	66.46	16.12	0.00	150.0	± 9.6 %
		Y	5.19	66.32	16.03		150.0	
		Z	4.99	66.46	16.09		150.0	
10535-AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.20	66.64	16.21	0.00	150.0	± 9.6 %
		Y	5.25	66.49	16.10		150.0	
		Z	5.03	66.59	16.15		150.0	
10536-AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.07	66.60	16.17	0.00	150.0	± 9.6 %
		Y	5.12	66.44	16.06		150.0	
		Z	4.92	66.60	16.13		150.0	
10537-AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.12	66.56	16.15	0.00	150.0	± 9.6 %
		Y	5.18	66.41	16.05		150.0	
		Z	4.98	66.58	16.13		150.0	
10538-AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.21	66.56	16.19	0.00	150.0	± 9.6 %
		Y	5.28	66.45	16.11		150.0	
		Z	5.05	66.54	16.15		150.0	
10540-AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.14	66.58	16.22	0.00	150.0	± 9.6 %
		Y	5.20	66.45	16.12		150.0	
		Z	4.98	66.51	16.15		150.0	

10541-AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.12	66.46	16.14	0.00	150.0	± 9.6 %
		Y	5.18	66.32	16.05		150.0	
		Z	4.96	66.43	16.09		150.0	
10542-AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.27	66.53	16.19	0.00	150.0	± 9.6 %
		Y	5.33	66.40	16.10		150.0	
		Z	5.12	66.52	16.15		150.0	
10543-AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.34	66.55	16.23	0.00	150.0	± 9.6 %
		Y	5.41	66.44	16.14		150.0	
		Z	5.19	66.58	16.21		150.0	
10544-AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.45	66.57	16.12	0.00	150.0	± 9.6 %
		Y	5.49	66.44	16.03		150.0	
		Z	5.33	66.54	16.08		150.0	
10545-AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.64	66.98	16.28	0.00	150.0	± 9.6 %
		Y	5.69	66.86	16.18		150.0	
		Z	5.50	66.96	16.25		150.0	
10546-AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.50	66.75	16.18	0.00	150.0	± 9.6 %
		Y	5.56	66.68	16.11		150.0	
		Z	5.36	66.66	16.11		150.0	
10547-AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.57	66.80	16.19	0.00	150.0	± 9.6 %
		Y	5.64	66.72	16.12		150.0	
		Z	5.44	66.76	16.16		150.0	
10548-AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.80	67.67	16.61	0.00	150.0	± 9.6 %
		Y	5.91	67.72	16.59		150.0	
		Z	5.58	67.38	16.44		150.0	
10550-AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.54	66.80	16.21	0.00	150.0	± 9.6 %
		Y	5.59	66.67	16.11		150.0	
		Z	5.42	66.83	16.21		150.0	
10551-AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.54	66.82	16.18	0.00	150.0	± 9.6 %
		Y	5.59	66.72	16.10		150.0	
		Z	5.36	66.63	16.07		150.0	
10552-AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.46	66.64	16.10	0.00	150.0	± 9.6 %
		Y	5.51	66.51	16.00		150.0	
		Z	5.34	66.66	16.08		150.0	
10553-AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.54	66.66	16.14	0.00	150.0	± 9.6 %
		Y	5.59	66.56	16.06		150.0	
		Z	5.39	66.61	16.09		150.0	
10554-AAB	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.86	66.92	16.20	0.00	150.0	± 9.6 %
		Y	5.89	66.81	16.12		150.0	
		Z	5.75	66.87	16.15		150.0	
10555-AAB	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.98	67.22	16.33	0.00	150.0	± 9.6 %
		Y	6.03	67.12	16.25		150.0	
		Z	5.84	67.10	16.25		150.0	
10556-AAB	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	6.00	67.27	16.35	0.00	150.0	± 9.6 %
		Y	6.05	67.16	16.27		150.0	
		Z	5.88	67.20	16.30		150.0	
10557-AAB	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.96	67.16	16.31	0.00	150.0	± 9.6 %
		Y	6.02	67.08	16.25		150.0	
		Z	5.84	67.08	16.25		150.0	

10558-AAB	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.01	67.32	16.41	0.00	150.0	± 9.6 %
		Y	6.07	67.25	16.34		150.0	
		Z	5.85	67.15	16.31		150.0	
10560-AAB	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.01	67.17	16.37	0.00	150.0	± 9.6 %
		Y	6.06	67.10	16.31		150.0	
		Z	5.87	67.07	16.30		150.0	
10561-AAB	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.93	67.15	16.40	0.00	150.0	± 9.6 %
		Y	5.98	67.06	16.32		150.0	
		Z	5.80	67.05	16.32		150.0	
10562-AAB	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.04	67.49	16.57	0.00	150.0	± 9.6 %
		Y	6.12	67.48	16.53		150.0	
		Z	5.85	67.23	16.41		150.0	
10563-AAB	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.18	67.55	16.56	0.00	150.0	± 9.6 %
		Y	6.43	68.00	16.75		150.0	
		Z	5.95	67.17	16.35		150.0	
10564-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	X	4.86	66.88	16.45	0.46	150.0	± 9.6 %
		Y	4.92	66.69	16.36		150.0	
		Z	4.71	66.96	16.39		150.0	
10565-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	X	5.08	67.30	16.76	0.46	150.0	± 9.6 %
		Y	5.16	67.15	16.67		150.0	
		Z	4.90	67.36	16.69		150.0	
10566-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	X	4.91	67.15	16.58	0.46	150.0	± 9.6 %
		Y	4.99	67.00	16.50		150.0	
		Z	4.74	67.18	16.50		150.0	
10567-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	X	4.94	67.52	16.92	0.46	150.0	± 9.6 %
		Y	5.01	67.38	16.84		150.0	
		Z	4.77	67.57	16.87		150.0	
10568-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	X	4.83	66.96	16.38	0.46	150.0	± 9.6 %
		Y	4.90	66.77	16.27		150.0	
		Z	4.63	66.92	16.25		150.0	
10569-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	X	4.90	67.63	17.00	0.46	150.0	± 9.6 %
		Y	4.96	67.44	16.88		150.0	
		Z	4.75	67.78	17.00		150.0	
10570-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	X	4.93	67.48	16.92	0.46	150.0	± 9.6 %
		Y	5.00	67.29	16.82		150.0	
		Z	4.76	67.58	16.89		150.0	
10571-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.18	64.69	15.93	0.46	130.0	± 9.6 %
		Y	1.20	64.37	15.58		130.0	
		Z	1.13	64.22	15.49		130.0	
10572-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.19	65.27	16.29	0.46	130.0	± 9.6 %
		Y	1.21	64.91	15.92		130.0	
		Z	1.14	64.74	15.83		130.0	
10573-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	2.77	92.16	26.12	0.46	130.0	± 9.6 %
		Y	1.86	83.27	22.47		130.0	
		Z	1.57	83.20	23.00		130.0	
10574-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.31	71.26	19.39	0.46	130.0	± 9.6 %
		Y	1.31	70.26	18.63		130.0	
		Z	1.20	70.00	18.67		130.0	

10575-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	X	4.64	66.67	16.51	0.46	130.0	± 9.6 %
		Y	4.71	66.50	16.43		130.0	
		Z	4.47	66.69	16.39		130.0	
10576-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	X	4.66	66.83	16.58	0.46	130.0	± 9.6 %
		Y	4.73	66.66	16.49		130.0	
		Z	4.50	66.89	16.47		130.0	
10577-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	X	4.86	67.11	16.74	0.46	130.0	± 9.6 %
		Y	4.94	66.97	16.66		130.0	
		Z	4.67	67.12	16.61		130.0	
10578-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	X	4.76	67.25	16.83	0.46	130.0	± 9.6 %
		Y	4.84	67.12	16.76		130.0	
		Z	4.57	67.26	16.72		130.0	
10579-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	X	4.52	66.57	16.17	0.46	130.0	± 9.6 %
		Y	4.61	66.44	16.10		130.0	
		Z	4.33	66.48	15.99		130.0	
10580-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	X	4.57	66.63	16.21	0.46	130.0	± 9.6 %
		Y	4.66	66.47	16.12		130.0	
		Z	4.36	66.53	16.01		130.0	
10581-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	X	4.65	67.30	16.78	0.46	130.0	± 9.6 %
		Y	4.73	67.15	16.70		130.0	
		Z	4.48	67.34	16.69		130.0	
10582-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	X	4.47	66.35	15.97	0.46	130.0	± 9.6 %
		Y	4.56	66.21	15.89		130.0	
		Z	4.26	66.25	15.78		130.0	
10583-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.64	66.67	16.51	0.46	130.0	± 9.6 %
		Y	4.71	66.50	16.43		130.0	
		Z	4.47	66.69	16.39		130.0	
10584-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.66	66.83	16.58	0.46	130.0	± 9.6 %
		Y	4.73	66.66	16.49		130.0	
		Z	4.50	66.89	16.47		130.0	
10585-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.86	67.11	16.74	0.46	130.0	± 9.6 %
		Y	4.94	66.97	16.66		130.0	
		Z	4.67	67.12	16.61		130.0	
10586-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.76	67.25	16.83	0.46	130.0	± 9.6 %
		Y	4.84	67.12	16.76		130.0	
		Z	4.57	67.26	16.72		130.0	
10587-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.52	66.57	16.17	0.46	130.0	± 9.6 %
		Y	4.61	66.44	16.10		130.0	
		Z	4.33	66.48	15.99		130.0	
10588-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.57	66.63	16.21	0.46	130.0	± 9.6 %
		Y	4.66	66.47	16.12		130.0	
		Z	4.36	66.53	16.01		130.0	
10589-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.65	67.30	16.78	0.46	130.0	± 9.6 %
		Y	4.73	67.15	16.70		130.0	
		Z	4.48	67.34	16.69		130.0	
10590-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.47	66.35	15.97	0.46	130.0	± 9.6 %
		Y	4.56	66.21	15.89		130.0	
		Z	4.26	66.25	15.78		130.0	

10591-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.79	66.72	16.61	0.46	130.0	± 9.6 %
		Y	4.86	66.57	16.53		130.0	
		Z	4.63	66.78	16.50		130.0	
10592-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.94	67.05	16.74	0.46	130.0	± 9.6 %
		Y	5.02	66.91	16.66		130.0	
		Z	4.75	67.07	16.63		130.0	
10593-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.86	66.96	16.62	0.46	130.0	± 9.6 %
		Y	4.94	66.83	16.55		130.0	
		Z	4.67	66.95	16.49		130.0	
10594-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.91	67.12	16.77	0.46	130.0	± 9.6 %
		Y	5.00	66.98	16.70		130.0	
		Z	4.72	67.12	16.65		130.0	
10595-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.88	67.08	16.67	0.46	130.0	± 9.6 %
		Y	4.96	66.94	16.59		130.0	
		Z	4.69	67.10	16.56		130.0	
10596-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.82	67.08	16.68	0.46	130.0	± 9.6 %
		Y	4.90	66.94	16.60		130.0	
		Z	4.62	67.07	16.55		130.0	
10597-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.77	66.98	16.56	0.46	130.0	± 9.6 %
		Y	4.85	66.85	16.49		130.0	
		Z	4.57	66.94	16.41		130.0	
10598-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.75	67.19	16.80	0.46	130.0	± 9.6 %
		Y	4.83	67.08	16.74		130.0	
		Z	4.56	67.16	16.67		130.0	
10599-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.46	67.23	16.81	0.46	130.0	± 9.6 %
		Y	5.53	67.13	16.74		130.0	
		Z	5.31	67.22	16.74		130.0	
10600-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.59	67.67	17.00	0.46	130.0	± 9.6 %
		Y	5.69	67.62	16.95		130.0	
		Z	5.40	67.56	16.88		130.0	
10601-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.48	67.41	16.88	0.46	130.0	± 9.6 %
		Y	5.56	67.33	16.83		130.0	
		Z	5.31	67.36	16.79		130.0	
10602-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.59	67.49	16.85	0.46	130.0	± 9.6 %
		Y	5.65	67.34	16.75		130.0	
		Z	5.41	67.42	16.75		130.0	
10603-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.65	67.74	17.10	0.46	130.0	± 9.6 %
		Y	5.74	67.66	17.04		130.0	
		Z	5.48	67.71	17.02		130.0	
10604-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.49	67.31	16.87	0.46	130.0	± 9.6 %
		Y	5.53	67.10	16.74		130.0	
		Z	5.37	67.37	16.83		130.0	
10605-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.58	67.57	17.01	0.46	130.0	± 9.6 %
		Y	5.65	67.44	16.92		130.0	
		Z	5.40	67.46	16.88		130.0	
10606-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.32	66.88	16.52	0.46	130.0	± 9.6 %
		Y	5.42	66.88	16.50		130.0	
		Z	5.18	66.90	16.45		130.0	

10607-AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.63	66.06	16.24	0.46	130.0	± 9.6 %
		Y	4.69	65.87	16.14		130.0	
		Z	4.48	66.14	16.16		130.0	
10608-AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.81	66.46	16.41	0.46	130.0	± 9.6 %
		Y	4.89	66.28	16.31		130.0	
		Z	4.62	66.47	16.30		130.0	
10609-AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.70	66.31	16.25	0.46	130.0	± 9.6 %
		Y	4.78	66.14	16.15		130.0	
		Z	4.52	66.31	16.13		130.0	
10610-AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.75	66.46	16.40	0.46	130.0	± 9.6 %
		Y	4.83	66.29	16.31		130.0	
		Z	4.57	66.47	16.29		130.0	
10611-AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.67	66.27	16.25	0.46	130.0	± 9.6 %
		Y	4.74	66.11	16.17		130.0	
		Z	4.48	66.27	16.14		130.0	
10612-AAA	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.68	66.43	16.31	0.46	130.0	± 9.6 %
		Y	4.76	66.26	16.21		130.0	
		Z	4.47	66.40	16.18		130.0	
10613-AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.68	66.30	16.19	0.46	130.0	± 9.6 %
		Y	4.76	66.16	16.10		130.0	
		Z	4.47	66.22	16.03		130.0	
10614-AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.62	66.47	16.40	0.46	130.0	± 9.6 %
		Y	4.70	66.33	16.32		130.0	
		Z	4.44	66.44	16.27		130.0	
10615-AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.67	66.12	16.05	0.46	130.0	± 9.6 %
		Y	4.75	65.95	15.95		130.0	
		Z	4.48	66.11	15.92		130.0	
10616-AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.28	66.50	16.42	0.46	130.0	± 9.6 %
		Y	5.35	66.40	16.35		130.0	
		Z	5.12	66.44	16.33		130.0	
10617-AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.35	66.70	16.50	0.46	130.0	± 9.6 %
		Y	5.42	66.55	16.40		130.0	
		Z	5.16	66.57	16.37		130.0	
10618-AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.24	66.70	16.51	0.46	130.0	± 9.6 %
		Y	5.30	66.57	16.42		130.0	
		Z	5.08	66.64	16.42		130.0	
10619-AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.25	66.50	16.35	0.46	130.0	± 9.6 %
		Y	5.33	66.41	16.28		130.0	
		Z	5.09	66.45	16.26		130.0	
10620-AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.34	66.53	16.41	0.46	130.0	± 9.6 %
		Y	5.42	66.46	16.35		130.0	
		Z	5.16	66.45	16.31		130.0	
10621-AAA	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.34	66.65	16.59	0.46	130.0	± 9.6 %
		Y	5.41	66.55	16.51		130.0	
		Z	5.17	66.56	16.48		130.0	
10622-AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.35	66.81	16.66	0.46	130.0	± 9.6 %
		Y	5.42	66.71	16.59		130.0	
		Z	5.16	66.65	16.52		130.0	

10623-AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.23	66.36	16.32	0.46	130.0	± 9.6 %
		Y	5.30	66.25	16.24		130.0	
		Z	5.05	66.22	16.17		130.0	
10624-AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.42	66.55	16.47	0.46	130.0	± 9.6 %
		Y	5.50	66.45	16.40		130.0	
		Z	5.25	66.47	16.36		130.0	
10625-AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.75	67.41	16.95	0.46	130.0	± 9.6 %
		Y	5.89	67.51	16.98		130.0	
		Z	5.34	66.63	16.50		130.0	
10626-AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.59	66.56	16.38	0.46	130.0	± 9.6 %
		Y	5.64	66.46	16.31		130.0	
		Z	5.45	66.47	16.28		130.0	
10627-AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.82	67.13	16.63	0.46	130.0	± 9.6 %
		Y	5.88	67.03	16.55		130.0	
		Z	5.67	67.05	16.54		130.0	
10628-AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.61	66.64	16.32	0.46	130.0	± 9.6 %
		Y	5.68	66.59	16.27		130.0	
		Z	5.44	66.46	16.18		130.0	
10629-AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.69	66.69	16.34	0.46	130.0	± 9.6 %
		Y	5.78	66.69	16.31		130.0	
		Z	5.54	66.62	16.26		130.0	
10630-AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.09	68.10	17.05	0.46	130.0	± 9.6 %
		Y	6.25	68.29	17.11		130.0	
		Z	5.78	67.54	16.72		130.0	
10631-AAA	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.99	67.90	17.13	0.46	130.0	± 9.6 %
		Y	6.12	67.99	17.15		130.0	
		Z	5.75	67.56	16.92		130.0	
10632-AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.79	67.18	16.78	0.46	130.0	± 9.6 %
		Y	5.85	67.07	16.70		130.0	
		Z	5.67	67.21	16.76		130.0	
10633-AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.68	66.80	16.43	0.46	130.0	± 9.6 %
		Y	5.74	66.74	16.37		130.0	
		Z	5.48	66.57	16.27		130.0	
10634-AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.66	66.82	16.49	0.46	130.0	± 9.6 %
		Y	5.73	66.76	16.44		130.0	
		Z	5.50	66.72	16.40		130.0	
10635-AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.54	66.19	15.93	0.46	130.0	± 9.6 %
		Y	5.62	66.14	15.87		130.0	
		Z	5.36	66.00	15.77		130.0	
10636-AAB	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.00	66.92	16.46	0.46	130.0	± 9.6 %
		Y	6.05	66.85	16.41		130.0	
		Z	5.88	66.82	16.36		130.0	
10637-AAB	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.16	67.31	16.64	0.46	130.0	± 9.6 %
		Y	6.21	67.23	16.58		130.0	
		Z	6.00	67.12	16.50		130.0	
10638-AAB	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.16	67.28	16.60	0.46	130.0	± 9.6 %
		Y	6.21	67.20	16.54		130.0	
		Z	6.02	67.18	16.51		130.0	

10639-AAB	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.13	67.21	16.61	0.46	130.0	± 9.6 %
		Y	6.20	67.17	16.57		130.0	
		Z	5.98	67.06	16.49		130.0	
10640-AAB	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.13	67.23	16.57	0.46	130.0	± 9.6 %
		Y	6.21	67.21	16.53		130.0	
		Z	5.95	66.98	16.40		130.0	
10641-AAB	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.19	67.17	16.55	0.46	130.0	± 9.6 %
		Y	6.24	67.06	16.48		130.0	
		Z	6.04	67.04	16.44		130.0	
10642-AAB	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.22	67.37	16.82	0.46	130.0	± 9.6 %
		Y	6.28	67.33	16.77		130.0	
		Z	6.06	67.23	16.70		130.0	
10643-AAB	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.06	67.09	16.58	0.46	130.0	± 9.6 %
		Y	6.12	67.02	16.52		130.0	
		Z	5.91	66.93	16.45		130.0	
10644-AAB	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.20	67.52	16.82	0.46	130.0	± 9.6 %
		Y	6.31	67.59	16.83		130.0	
		Z	5.97	67.13	16.57		130.0	
10645-AAB	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.41	67.77	16.91	0.46	130.0	± 9.6 %
		Y	6.76	68.49	17.23		130.0	
		Z	6.10	67.18	16.56		130.0	
10646-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	32.54	128.38	44.23	9.30	60.0	± 9.6 %
		Y	33.21	124.21	42.28		60.0	
		Z	8.58	97.27	34.21		60.0	
10647-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	24.86	122.50	42.74	9.30	60.0	± 9.6 %
		Y	27.83	120.75	41.46		60.0	
		Z	7.33	94.04	33.20		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	0.71	63.99	11.07	0.00	150.0	± 9.6 %
		Y	0.72	63.38	11.01		150.0	
		Z	0.57	62.72	9.40		150.0	
10652-AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.64	67.29	16.91	2.23	80.0	± 9.6 %
		Y	3.79	67.25	16.93		80.0	
		Z	3.31	66.63	16.20		80.0	
10653-AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.13	66.44	16.95	2.23	80.0	± 9.6 %
		Y	4.30	66.53	16.99		80.0	
		Z	3.84	65.89	16.44		80.0	
10654-AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.11	66.04	16.93	2.23	80.0	± 9.6 %
		Y	4.26	66.17	16.97		80.0	
		Z	3.86	65.50	16.46		80.0	
10655-AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.17	66.02	16.96	2.23	80.0	± 9.6 %
		Y	4.32	66.18	17.01		80.0	
		Z	3.93	65.42	16.50		80.0	

^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	750	835	835	1750	1750	1900	1900	2450	2450	5200-5800	5200-5800
Tissue	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Ingredients (% by weight)												
Bactericide	See page 2-3	See page 2	0.1	0.1					See page 4		See page 5	
DGBE					47	31	44.92	29.44		26.7		
HEC			1	1								
NaCl			1.45	0.94	0.4	0.2	0.18	0.39		0.1		
Sucrose			57	44.9								
Polysorbate (Tween) 80												20
Water			40.45	53.06	52.6	68.8	54.9	70.17		73.2		80

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Test Dates: 02/28/18 - 03/19/18	DUT Type: Portable Handset			APPENDIX D: Page 1 of 5

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 Head and 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.

Measurement Certificate / Material Test

Item Name	Body Tissue Simulating Liquid (MSL750V2)
Product No.	SL AAM 075 AA (Batch: 150518-2)
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 $\pm$ 3)°C and humidity < 70%.
TSL Temperature	22°C
Test Date	20-Apr-16
Operator	WM

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	57.2	24.76	0.83	56.1	0.95	2.0	-13.2	
625	57.0	24.43	0.85	56.0	0.95	1.7	-11.0	
650	56.7	24.11	0.87	55.9	0.96	1.4	-8.8	
675	56.4	23.82	0.89	55.8	0.96	1.1	-6.6	
700	56.1	23.53	0.92	55.7	0.96	0.7	-4.5	
725	55.9	23.32	0.94	55.6	0.96	0.5	-2.2	
750	55.7	23.12	0.96	55.5	0.96	0.2	0.1	
775	55.4	22.93	0.99	55.4	0.97	-0.1	2.4	
800	55.1	22.73	1.01	55.3	0.97	-0.4	4.6	
825	54.9	22.59	1.04	55.2	0.98	-0.7	6.0	
838	54.8	22.52	1.05	55.2	0.98	-0.8	6.7	
850	54.6	22.45	1.06	55.2	0.99	-0.9	7.4	
875	54.4	22.32	1.09	55.1	1.02	-1.2	6.6	
900	54.1	22.19	1.11	55.0	1.05	-1.6	5.8	
925	53.9	22.09	1.14	55.0	1.06	-1.9	6.9	
950	53.7	21.98	1.16	54.9	1.08	-2.2	8.0	
975	53.5	21.91	1.19	54.9	1.09	-2.6	9.3	
1000	53.2	21.83	1.21	54.8	1.10	-2.9	10.6	

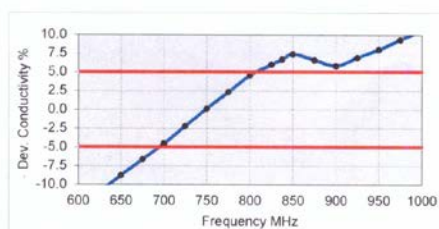
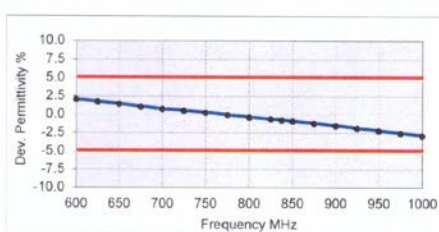


Figure D-2
750MHz Body Tissue Equivalent Matter

FCC ID: ZNFG710TM		SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 02/28/18 - 03/19/18	DUT Type: Portable Handset			APPENDIX D: Page 2 of 5

Measurement Certificate / Material Test

Item Name	Head Tissue Simulating Liquid (HSL750V2)
Product No.	SL AAH 075 AB (Batch: 160322-2)
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	23-Mar-16
Operator	WM

Additional Information

TSL Density	1.284 g/cm ³
TSL Heat-capacity	2.701 kJ/(kg*K)

f [MHz]	Measured			Target		Diff.to Target [%]	
	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
600	44.9	22.60	0.75	42.7	0.88	5.1	-14.4
625	44.5	22.37	0.78	42.6	0.88	4.5	-12.0
650	44.2	22.13	0.80	42.5	0.89	4.0	-9.6
675	43.8	21.90	0.82	42.3	0.89	3.4	-7.4
700	43.4	21.67	0.84	42.2	0.89	2.8	-5.1
725	43.1	21.52	0.87	42.1	0.89	2.4	-2.6
750	42.8	21.37	0.89	41.9	0.89	2.0	-0.2
775	42.4	21.21	0.91	41.8	0.90	1.5	2.1
800	42.1	21.04	0.94	41.7	0.90	0.9	4.4
825	41.8	20.92	0.96	41.6	0.91	0.5	5.9
838	41.6	20.86	0.97	41.5	0.91	0.2	6.6
850	41.5	20.79	0.98	41.5	0.92	0.0	7.3
875	41.2	20.68	1.01	41.5	0.94	-0.7	6.7
900	40.9	20.56	1.03	41.5	0.97	-1.5	6.1
925	40.6	20.48	1.05	41.5	0.98	-2.0	7.3
950	40.3	20.39	1.08	41.4	0.99	-2.6	8.3
975	40.1	20.29	1.10	41.4	1.00	-3.2	9.5
1000	39.8	20.20	1.12	41.3	1.01	-3.7	10.7

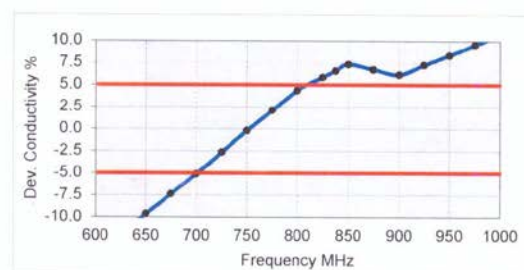
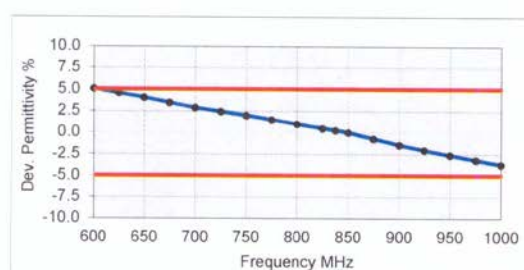


Figure D-3
750MHz Head Tissue Equivalent Matter

FCC ID: ZNFG710TM		SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 02/28/18 - 03/19/18	DUT Type: Portable Handset			APPENDIX D: Page 3 of 5

3 Composition / Information on ingredients

The Item is composed of the following ingredients:

Water	50 – 73 %	
Non-ionic detergents	25 – 50 %	polyoxyethylenesorbitan monolaurate
NaCl	0 – 2 %	
Preservative	0.05 – 0.1 %	Preventol-D7

Safety relevant ingredients:

CAS-No. 55965-84-9	< 0.1 %	aqueous preparation, containing 5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyl-3(2H)-isothiazolone
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CAS-No. 9005-64-5	<50 %	polyoxyethylenesorbitan monolaurate
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According to international guidelines, the product is not a dangerous mixture and therefore not required to be marked by symbols.

Figure D-4
Composition of 2.4 GHz Head Tissue Equivalent Matter

Note: 2.4 GHz head 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.

Measurement Certificate / Material Test

Item Name	Head Tissue Simulating Liquid (HBBL1900-3800V3)
Product No.	SL AAH 196 AB (Batch: 160330-1)
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	30-Mar-16
Operator	WM

Additional Information

TSL Density 1.054 g/cm³

TSL Heat-capacity 3.389 kJ/(kg·K)

Measured			Target		Diff to Target [%]	
f [MHz]	ϵ'	ϵ'' sigma	ϵ'	ϵ'' sigma	$\Delta\epsilon'$	$\Delta\epsilon''$ sigma
1900	40.7	12.3	1.3	40.0	1.4	1.7 -6.9
1950	40.5	12.5	1.4	40.0	1.4	1.2 -3.3
2000	40.3	12.6	1.4	40.0	1.4	0.8 0.1
2050	40.1	12.7	1.5	39.9	1.4	0.6 0.5
2100	39.9	12.9	1.5	39.8	1.5	0.3 0.9
2150	39.8	13.0	1.6	39.7	1.5	0.1 1.2
2200	39.6	13.1	1.6	39.6	1.6	-0.2 1.7
2250	39.4	13.2	1.7	39.6	1.6	-0.3 2.0
2300	39.2	13.3	1.7	39.5	1.7	-0.6 2.4
2350	39.1	13.5	1.8	39.4	1.7	-0.8 2.9
2400	38.9	13.6	1.8	39.3	1.8	-1.0 3.4
2450	38.7	13.7	1.9	39.2	1.8	-1.2 4.0
2500	38.5	13.8	1.9	39.1	1.9	-1.5 3.9
2550	38.3	13.9	2.0	39.1	1.9	-1.9 3.5
2600	38.2	14.1	2.0	39.0	2.0	-2.2 3.8
2650	37.9	14.2	2.1	38.9	2.0	-2.6 3.8
2700	37.8	14.3	2.2	38.9	2.1	-2.8 3.9
2750	37.5	14.4	2.2	38.8	2.1	-3.3 3.6
2800	37.4	14.5	2.3	38.8	2.2	-3.6 3.6
2850	37.2	14.6	2.3	38.7	2.2	-3.9 3.7
2900	37.0	14.7	2.4	38.6	2.3	-4.1 3.8
2950	36.8	14.8	2.4	38.6	2.3	-4.5 3.7
3000	36.6	14.9	2.5	38.5	2.4	-4.8 3.6
3050	36.4	15.0	2.5	38.4	2.5	-5.2 3.8
3100	36.2	15.1	2.6	38.4	2.5	-5.6 3.8
3150	36.1	15.2	2.7	38.3	2.6	-5.9 4.0
3200	35.9	15.2	2.7	38.3	2.6	-6.2 3.9
3250	35.7	15.3	2.8	38.2	2.7	-6.6 4.1
3300	35.5	15.3	2.8	38.2	2.7	-6.9 4.0
3350	35.4	15.4	2.9	38.1	2.8	-7.2 4.2
3400	35.2	15.5	2.9	38.0	2.8	-7.5 4.1
3450	35.0	15.5	3.0	38.0	2.9	-7.8 4.2
3500	34.9	15.6	3.0	37.9	2.9	-8.1 4.2
3550	34.7	15.6	3.1	37.9	3.0	-8.4 4.2
3600	34.5	15.7	3.1	37.8	3.0	-8.7 4.4
3650	34.4	15.8	3.2	37.8	3.1	-9.0 4.3
3700	34.2	15.8	3.3	37.7	3.1	-9.3 4.5
3750	34.1	15.9	3.3	37.6	3.2	-9.5 4.4
3800	33.9	15.9	3.4	37.6	3.2	-9.9 4.7
3850	33.7	16.0	3.4	37.5	3.3	-10.1 4.7

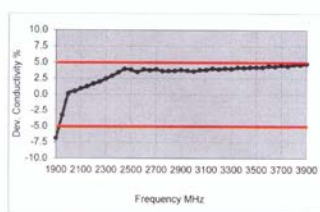
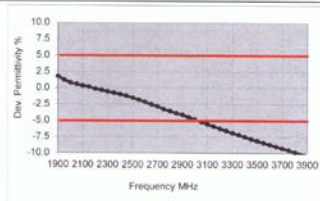


Figure D-5
2.4 GHz Head Tissue Equivalent Matter

FCC ID: ZNFG710TM		SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 02/28/18 - 03/19/18	DUT Type: Portable Handset			APPENDIX D: Page 4 of 5

2 Composition / Information on ingredients

The Item is composed of the following ingredients:

Water	50 – 65%
Mineral oil	10 – 30%
Emulsifiers	8 – 25%
Sodium salt	0 – 1.5%

Figure D-6

Composition of 5 GHz Head Tissue Equivalent Matter

Note: 5GHz head 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.

Measurement Certificate / Material Test

Item Name	Head Tissue Simulating Liquid (HBBL3500-5800V5)
Product No.	SL AAH 502 AG (Batch: 160331-2)
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	4-Apr-16
Operator	WM

Additional Information	
TSL Density	0.985 g/cm ³
TSL Heat-capacity	3.383 kJ/(kg*K)

	Measured			Target		Diff.to Target [%]	
f [MHz]	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
3400	39.0	15.12	2.86	38.0	2.81	2.5	1.8
3500	38.8	15.09	2.94	37.9	2.91	2.3	0.9
3600	38.7	15.08	3.02	37.8	3.02	2.3	0.2
3700	38.6	15.08	3.10	37.7	3.12	2.4	-0.6
3800	38.4	15.07	3.19	37.6	3.22	2.2	-0.9
3900	38.3	15.09	3.27	37.5	3.32	2.2	-1.6
4000	38.2	15.10	3.36	37.4	3.43	2.3	-1.9
4100	38.1	15.13	3.45	37.2	3.53	2.3	-2.2
4200	38.0	15.18	3.55	37.1	3.63	2.3	-2.2
4300	37.8	15.22	3.64	37.0	3.73	2.1	-2.5
4400	37.7	15.29	3.74	36.9	3.84	2.2	-2.5
4500	37.6	15.34	3.84	36.8	3.94	2.2	-2.5
4600	37.4	15.41	3.94	36.7	4.04	2.0	-2.5
4700	37.3	15.47	4.05	36.6	4.14	2.0	-2.2
4800	37.1	15.53	4.15	36.4	4.25	1.8	-2.2
4850	37.1	15.57	4.20	36.4	4.30	2.0	-2.2
4900	37.0	15.60	4.25	36.3	4.35	1.8	-2.2
4950	36.9	15.62	4.30	36.3	4.40	1.7	-2.2
5000	36.8	15.66	4.35	36.2	4.45	1.6	-2.2
5050	36.8	15.68	4.40	36.2	4.50	1.8	-2.2
5100	36.7	15.73	4.46	36.1	4.55	1.7	-2.0
5150	36.6	15.75	4.51	36.0	4.60	1.5	-2.0
5200	36.5	15.78	4.57	36.0	4.66	1.4	-1.8
5250	36.4	15.80	4.62	35.9	4.71	1.3	-1.8
5300	36.4	15.84	4.67	35.9	4.76	1.5	-1.8
5350	36.3	15.85	4.72	35.8	4.81	1.4	-1.8
5400	36.2	15.88	4.77	35.8	4.86	1.2	-1.9
5450	36.2	15.90	4.82	35.7	4.91	1.4	-1.9
5500	36.1	15.91	4.87	35.6	4.96	1.3	-1.9
5550	36.0	15.95	4.93	35.6	5.01	1.2	-1.7
5600	35.9	15.99	4.98	35.5	5.07	1.0	-1.7
5650	35.9	16.02	5.04	35.5	5.12	1.2	-1.5
5700	35.8	16.05	5.09	35.4	5.17	1.1	-1.5
5750	35.7	16.09	5.15	35.4	5.22	1.0	-1.3
5800	35.7	16.10	5.20	35.3	5.27	1.1	-1.3
5850	35.6	16.14	5.25	35.3	5.34	0.8	-1.6
5900	35.5	16.15	5.30	35.3	5.40	0.6	-1.9

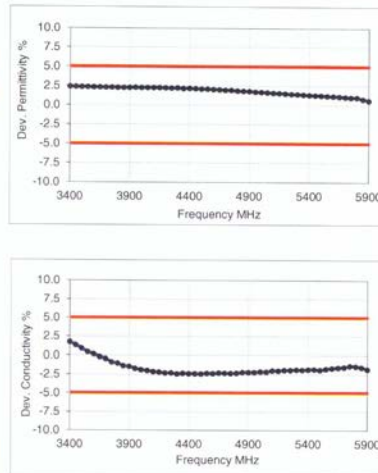


Figure D-7

5GHz Head Tissue Equivalent Matter

FCC ID: ZNFG710TM		SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 02/28/18 - 03/19/18	DUT Type: Portable Handset			APPENDIX D: Page 5 of 5

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 – 1g

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
E	750	3/11/2018	3213	ES3DV3	750	Head	0.890	40.788	PASS	PASS	PASS	N/A	N/A	N/A
E	835	3/5/2018	3213	ES3DV3	835	Head	0.925	43.335	PASS	PASS	PASS	GMSK	PASS	N/A
E	1750	3/2/2018	3213	ES3DV3	1750	Head	1.397	38.415	PASS	PASS	PASS	N/A	N/A	N/A
G	1900	8/31/2017	3332	ES3DV3	1900	Head	1.457	40.398	PASS	PASS	PASS	GMSK	PASS	N/A
G	2300	10/12/2018	3332	ES3DV3	2300	Head	1.715	39.101	PASS	PASS	PASS	N/A	N/A	N/A
K	2450	5/2/2017	7406	EX3DV4	2450	Head	1.873	39.496	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
H	2450	9/5/2017	7410	EX3DV4	2450	Head	1.869	38.852	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
G	2600	10/16/2018	3332	ES3DV3	2600	Head	2.051	38.039	PASS	PASS	PASS	TDD	PASS	N/A
H	5250	1/31/2018	3589	EX3DV4	5250	Head	4.516	36.066	PASS	PASS	PASS	OFDM	N/A	PASS
H	5600	1/31/2018	3589	EX3DV4	5600	Head	4.869	35.597	PASS	PASS	PASS	OFDM	N/A	PASS
H	5750	1/31/2018	3589	EX3DV4	5750	Head	5.112	35.351	PASS	PASS	PASS	OFDM	N/A	PASS
K	750	5/3/2017	7406	EX3DV4	750	Body	0.952	53.745	PASS	PASS	PASS	N/A	N/A	N/A
J	835	3/4/2018	3914	ES3DV3	835	Body	0.998	52.865	PASS	PASS	PASS	GMSK	PASS	N/A
E	835	3/16/2018	3213	ES3DV3	835	Body	0.968	53.713	PASS	PASS	PASS	GMSK	PASS	N/A
K	1750	5/1/2017	7406	EX3DV4	1750	Body	1.514	51.685	PASS	PASS	PASS	N/A	N/A	N/A
J	1750	2/28/2018	3914	EX3DV4	1750	Body	1.499	53.187	PASS	PASS	PASS	N/A	N/A	N/A
H	1900	9/5/2017	7410	EX3DV4	1900	Body	1.580	52.546	PASS	PASS	PASS	GMSK	PASS	N/A
G	2300	10/10/2017	3332	ES3DV3	2300	Body	1.828	51.620	PASS	PASS	PASS	N/A	N/A	N/A
G	2450	10/10/2017	3332	ES3DV3	2450	Body	2.040	51.023	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
G	2600	10/10/2017	3332	ES3DV3	2600	Body	2.253	50.376	PASS	PASS	PASS	TDD	PASS	N/A
D	5250	10/24/2017	7308	EX3DV4	5250	Body	5.405	48.529	PASS	PASS	PASS	OFDM	N/A	PASS
D	5600	10/24/2017	7308	EX3DV4	5600	Body	5.910	47.818	PASS	PASS	PASS	OFDM	N/A	PASS
D	5750	10/24/2017	7308	EX3DV4	5750	Body	6.135	47.546	PASS	PASS	PASS	OFDM	N/A	PASS

Table E-2
SAR System Validation Summary – 10g

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
H	1750	8/30/2017	7410	EX3DV4	1750	Body	1.532	51.024	PASS	PASS	PASS	N/A	N/A	N/A
J	1900	3/9/2018	3914	ES3DV3	1900	Body	1.533	53.731	PASS	PASS	PASS	GMSK	PASS	N/A
D	5250	10/24/2017	7308	EX3DV4	5250	Body	5.405	48.529	PASS	PASS	PASS	OFDM	N/A	PASS
D	5600	10/24/2017	7308	EX3DV4	5600	Body	5.910	47.818	PASS	PASS	PASS	OFDM	N/A	PASS
D	5750	10/24/2017	7308	EX3DV4	5750	Body	6.135	47.546	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

Per the May 2017 TCBC Workshop Notes, demonstration of proper functioning of the power reduction mechanisms is required to support the corresponding SAR configurations. The verification process was divided into two parts: (1) evaluation of output power levels for individual or multiple triggering mechanisms and (2) evaluation of the triggering distances for proximity-based sensors.

1.1 Power Verification Procedure

The power verification was performed according to the following procedure:

1. A base station simulator was used to establish a conducted RF connection and the output power was monitored. The power measurements were confirmed to be within expected tolerances for all states before and after a power reduction mechanism was triggered.
2. Step 1 was repeated for all relevant modes and frequency bands for the mechanism being investigated.
3. Steps 1 and 2 were repeated for all individual power reduction mechanisms and combinations thereof. For the combination cases, one mechanism was switched to a 'triggered' state at a time; powers were confirmed to be within tolerances after each additional mechanism was activated.

1.2 Distance Verification Procedure

The distance verification procedure was performed according to the following procedure:

1. A base station simulator was used to establish an RF connection and to monitor the power levels. The device being tested was placed below the relevant section of the phantom with the relevant side or edge of the device facing toward the phantom.
2. The device was moved toward and away from the phantom to determine the distance at which the mechanism triggers and the output power is reduced, per KDB Publication 616217 D04v01r02 and FCC Guidance. Each applicable test position was evaluated. The distances were confirmed to be the same or larger (more conservative) than the minimum distances provided by the manufacturer.
3. Steps 1 and 2 were repeated for all relevant frequency bands.
4. Steps 1 through 3 were repeated for all distance-based power reduction mechanisms.

FCC ID: ZNFG710TM	 PCTEST ENGINEERING LABORATORY, INC.	SAR EVALUATION REPORT		Reviewed by: Quality Manager
Test Dates: 02/28/18 - 03/19/18	DUT Type: Portable Handset			APPENDIX G: Page 1 of 2

1.3 Main Antenna Verification Summary

Table G-1
Power Measurement Verification for Main Antenna

Mechanism(s)	Mode/Band	Conducted Power (dBm)	
		Un-triggered (Max)	Mechanism #1 (Reduced)
Proximity Sensor	UMTS B4	25.06	24.03
Proximity Sensor	UMTS B2	25.02	24.06
Proximity Sensor	LTE B4	25.07	24.05
Proximity Sensor	LTE B66	25.16	24.19
Proximity Sensor	LTE B2	25.01	23.98
Proximity Sensor	LTE B25	25.1	24.13

Table G-2
Distance Measurement Verification for Main Antenna

Mechanism(s)	Test Condition	Band	Distance Measurements (mm)		Minimum Distance per Manufacturer (mm)
			Moving Toward	Moving Away	
Proximity Sensor	Phablet - Back Side	Mid	8	10	6
Proximity Sensor	Phablet - Front Side	Mid	6	8	3
Proximity Sensor	Phablet - Bottom Edge	Mid	9	10	7

*Note: Mid band refers to: UMTS B2/4, LTE B2/4/25/66

1.4 WIFI Verification Summary

Table G-3
Power Measurement Verification WIFI

Mechanism(s)	Mode/Band	Conducted Power (dBm)	
		Un-triggered (Max)	Mechanism #1 (Reduced)
Held-to-Ear	802.11b	20.45	17.75
Held-to-Ear	802.11g	19.88	17.02
Held-to-Ear	802.11n (2.4GHz)	18.35	16.89

*Note: 802.11ac was not measured due to equipment limitation.

FCC ID: ZNFG710TM	 PCTEST ENGINEERING LABORATORY, INC.	SAR EVALUATION REPORT		Reviewed by: Quality Manager
Test Dates: 02/28/18 - 03/19/18	DUT Type: Portable Handset			APPENDIX G: Page 2 of 2

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 FCC Guidance, 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.
- Downlink CA combinations for SISO and 4x4 Downlink MIMO operations were measured independently, per May 2017 TCBC Workshop notes.

Table 1 – Example of Exclusion Table for SISO Configurations

Index	2CC	Supported Channel Bandwidth (MHz)	Restriction	Completely Covered by Measurement Superset
CCC #1	CA [2C]	5, 10, 15, 20	CCC #1	No
CCC #2	CA [2A]-2A	5, 10, 15, 20	CCC #2	No
CCC #3	CA [2A]-2A	5, 10, 15, 20	CCC #3	No
CCC #4	CA [2A]-2A	5, 10, 15, 20	CCC #4	No
CCC #5	CA [2A]-2A	5, 10, 15, 20	CCC #5	No
CCC #6	CA [2A]-2A	5, 10, 15, 20	CCC #6	No
CCC #7	CA [2A]-2A	5, 10, 15, 20	CCC #7	No
CCC #8	CA [2A]-2A	5, 10, 15, 20	CCC #8	No
CCC #9	CA [2A]-2A	5, 10, 15, 20	CCC #9	No
CCC #10	CA [2A]-2A	5, 10, 15, 20	CCC #10	No
CCC #11	CA [2A]-2A	5, 10, 15, 20	CCC #11	No
CCC #12	CA [2A]-2A	5, 10, 15, 20	CCC #12	No
CCC #13	CA [2A]-2A	5, 10, 15, 20	CCC #13	No
CCC #14	CA [2A]-2A	5, 10, 15, 20	CCC #14	No
CCC #15	CA [2A]-2A	5, 10, 15, 20	CCC #15	No
CCC #16	CA [2A]-2A	5, 10, 15, 20	CCC #16	No
CCC #17	CA [2A]-2A	5, 10, 15, 20	CCC #17	No
CCC #18	CA [2A]-2A	5, 10, 15, 20	CCC #18	No
CCC #19	CA [2A]-2A	5, 10, 15, 20	CCC #19	No
CCC #20	CA [2A]-2A	5, 10, 15, 20	CCC #20	No
CCC #21	CA [2A]-2A	5, 10, 15, 20	CCC #21	No
CCC #22	CA [2A]-2A	5, 10, 15, 20	CCC #22	No
CCC #23	CA [2A]-2A	5, 10, 15, 20	CCC #23	No
CCC #24	CA [2A]-2A	5, 10, 15, 20	CCC #24	No
CCC #25	CA [2A]-2A	5, 10, 15, 20	CCC #25	No
CCC #26	CA [2A]-2A	5, 10, 15, 20	CCC #26	No
CCC #27	CA [2A]-2A	5, 10, 15, 20	CCC #27	No
CCC #28	CA [2A]-2A	5, 10, 15, 20	CCC #28	No
CCC #29	CA [2A]-2A	5, 10, 15, 20	CCC #29	No
CCC #30	CA [2A]-2A	5, 10, 15, 20	CCC #30	No
CCC #31	CA [2A]-2A	5, 10, 15, 20	CCC #31	No
CCC #32	CA [2A]-2A	5, 10, 15, 20	CCC #32	No
CCC #33	CA [2A]-2A	5, 10, 15, 20	CCC #33	No
CCC #34	CA [2A]-2A	5, 10, 15, 20	CCC #34	No
CCC #35	CA [2A]-2A	5, 10, 15, 20	CCC #35	No
CCC #36	CA [2A]-2A	5, 10, 15, 20	CCC #36	No
CCC #37	CA [2A]-2A	5, 10, 15, 20	CCC #37	No
CCC #38	CA [2A]-2A	5, 10, 15, 20	CCC #38	No
CCC #39	CA [2A]-2A	5, 10, 15, 20	CCC #39	No
CCC #40	CA [2A]-2A	5, 10, 15, 20	CCC #40	No
CCC #41	CA [2A]-2A	5, 10, 15, 20	CCC #41	No
CCC #42	CA [2A]-2A	5, 10, 15, 20	CCC #42	No
CCC #43	CA [2A]-2A	5, 10, 15, 20	CCC #43	No
CCC #44	CA [2A]-2A	5, 10, 15, 20	CCC #44	No
CCC #45	CA [2A]-2A	5, 10, 15, 20	CCC #45	No
CCC #46	CA [2A]-2A	5, 10, 15, 20	CCC #46	No
CCC #47	CA [2A]-2A	5, 10, 15, 20	CCC #47	No
CCC #48	CA [2A]-2A	5, 10, 15, 20	CCC #48	No
CCC #49	CA [2A]-2A	5, 10, 15, 20	CCC #49	No
CCC #50	CA [2A]-2A	5, 10, 15, 20	CCC #50	No
CCC #51	CA [2A]-2A	5, 10, 15, 20	CCC #51	No
CCC #52	CA [2A]-2A	5, 10, 15, 20	CCC #52	No
CCC #53	CA [2A]-2A	5, 10, 15, 20	CCC #53	No
CCC #54	CA [2A]-2A	5, 10, 15, 20	CCC #54	No
CCC #55	CA [2A]-2A	5, 10, 15, 20	CCC #55	No
CCC #56	CA [2A]-2A	5, 10, 15, 20	CCC #56	No
CCC #57	CA [2A]-2A	5, 10, 15, 20	CCC #57	No
CCC #58	CA [2A]-2A	5, 10, 15, 20	CCC #58	No
CCC #59	CA [2A]-2A	5, 10, 15, 20	CCC #59	No
CCC #60	CA [2A]-2A	5, 10, 15, 20	CCC #60	No
CCC #61	CA [2A]-2A	5, 10, 15, 20	CCC #61	No
CCC #62	CA [2A]-2A	5, 10, 15, 20	CCC #62	No
CCC #63	CA [2A]-2A	5, 10, 15, 20	CCC #63	No
CCC #64	CA [2A]-2A	5, 10, 15, 20	CCC #64	No
CCC #65	CA [2A]-2A	5, 10, 15, 20	CCC #65	No
CCC #66	CA [2A]-2A	5, 10, 15, 20	CCC #66	No
CCC #67	CA [2A]-2A	5, 10, 15, 20	CCC #67	No
CCC #68	CA [2A]-2A	5, 10, 15, 20	CCC #68	No
CCC #69	CA [2A]-2A	5, 10, 15, 20	CCC #69	No
CCC #70	CA [2A]-2A	5, 10, 15, 20	CCC #70	No
CCC #71	CA [2A]-2A	5, 10, 15, 20	CCC #71	No
CCC #72	CA [2A]-2A	5, 10, 15, 20	CCC #72	No
CCC #73	CA [2A]-2A	5, 10, 15, 20	CCC #73	No
CCC #74	CA [2A]-2A	5, 10, 15, 20	CCC #74	No
CCC #75	CA [2A]-2A	5, 10, 15, 20	CCC #75	No
CCC #76	CA [2A]-2A	5, 10, 15, 20	CCC #76	No
CCC #77	CA [2A]-2A	5, 10, 15, 20	CCC #77	No
CCC #78	CA [2A]-2A	5, 10, 15, 20	CCC #78	No
CCC #79	CA [2A]-2A	5, 10, 15, 20	CCC #79	No
CCC #80	CA [2A]-2A	5, 10, 15, 20	CCC #80	No
CCC #81	CA [2A]-2A	5, 10, 15, 20	CCC #81	No
CCC #82	CA [2A]-2A	5, 10, 15, 20	CCC #82	No
CCC #83	CA [2A]-2A	5, 10, 15, 20	CCC #83	No
CCC #84	CA [2A]-2A	5, 10, 15, 20	CCC #84	No
CCC #85	CA [2A]-2A	5, 10, 15, 20	CCC #85	No
CCC #86	CA [2A]-2A	5, 10, 15, 20	CCC #86	No
CCC #87	CA [2A]-2A	5, 10, 15, 20	CCC #87	No
CCC #88	CA [2A]-2A	5, 10, 15, 20	CCC #88	No
CCC #89	CA [2A]-2A	5, 10, 15, 20	CCC #89	No
CCC #90	CA [2A]-2A	5, 10, 15, 20	CCC #90	No
CCC #91	CA [2A]-2A	5, 10, 15, 20	CCC #91	No
CCC #92	CA [2A]-2A	5, 10, 15, 20	CCC #92	No
CCC #93	CA [2A]-2A	5, 10, 15, 20	CCC #93	No
CCC #94	CA [2A]-2A	5, 10, 15, 20	CCC #94	No
CCC #95	CA [2A]-2A	5, 10, 15, 20	CCC #95	No
CCC #96	CA [2A]-2A	5, 10, 15, 20	CCC #96	No
CCC #97	CA [2A]-2A	5, 10, 15, 20	CCC #97	No
CCC #98	CA [2A]-2A	5, 10, 15, 20	CCC #98	No
CCC #99	CA [2A]-2A	5, 10, 15, 20	CCC #99	No
CCC #100	CA [2A]-2A	5, 10, 15, 20	CCC #100	No

Table 2 – Example of Exclusion Table for 4x4 Downlink MIMO Configurations

Table 2. Example Configuration for 2CC, 3CC, and 4CC Configurations					
Index	2CC	Supported Channel Bandwidth (MHz)		Restriction	Completely Covered by Measurement Superset
		CC1	CC2		
CCC #M1	CA [2C]	5, 10, 15, 20	5, 10, 15, 20	CCC #M6	No
CCC #M2	CA [2A]-2A	5, 10, 15, 20	5, 10, 15, 20	CCC #M1	No
CCC #M3	CA [2A]-2A	5, 10, 15, 20	5, 10, 15, 20	CCC #M2	No
CCC #M4	CA [2A]-2A	5, 10, 15, 20	5, 10, 15, 20	CCC #M3	No
CCC #M5	CA [2A]-2A	5, 10, 15, 20	5, 10, 15, 20	CCC #M4	No
CCC #M6	CA [2A]-2A	5, 10, 15, 20	5, 10, 15, 20	No	No
CCC #M7	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M3	No
CCC #M8	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M4	No
CCC #M9	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M5	No
CCC #M10	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M6	No
CCC #M11	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M7	No
CCC #M12	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M8	No
CCC #M13	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M9	No
CCC #M14	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M10	No
CCC #M15	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M11	No
CCC #M16	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M12	No
CCC #M17	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M13	No
CCC #M18	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M14	No
CCC #M19	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M15	No
CCC #M20	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M16	No
CCC #M21	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M17	No
CCC #M22	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M18	No
CCC #M23	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M19	No
CCC #M24	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M20	No
CCC #M25	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M21	No
CCC #M26	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M22	No
CCC #M27	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M23	No
CCC #M28	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M24	No
CCC #M29	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M25	No
CCC #M30	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M26	No
CCC #M31	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M27	No
CCC #M32	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M28	No
CCC #M33	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M29	No
CCC #M34	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M30	No
CCC #M35	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M31	No
CCC #M36	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M32	No
CCC #M37	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M33	No
CCC #M38	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M34	No
CCC #M39	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M35	No
CCC #M40	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M36	No
CCC #M41	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M37	No
CCC #M42	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M38	No
CCC #M43	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M39	No
CCC #M44	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M40	No
CCC #M45	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M41	No
CCC #M46	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M42	No
CCC #M47	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M43	No
CCC #M48	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M44	No
CCC #M49	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M45	No
CCC #M50	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M46	No
CCC #M51	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M47	No
CCC #M52	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M48	No
CCC #M53	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M49	No
CCC #M54	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M50	No
CCC #M55	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M51	No
CCC #M56	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M52	No
CCC #M57	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M53	No
CCC #M58	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M54	No
CCC #M59	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M55	No
CCC #M60	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M56	No
CCC #M61	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M57	No
CCC #M62	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M58	No
CCC #M63	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M59	No
CCC #M64	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M60	No
CCC #M65	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M61	No
CCC #M66	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M62	No
CCC #M67	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M63	No
CCC #M68	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M64	No
CCC #M69	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M65	No
CCC #M70	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M66	No
CCC #M71	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M67	No
CCC #M72	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M68	No
CCC #M73	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M69	No
CCC #M74	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M70	No
CCC #M75	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M71	No
CCC #M76	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M72	No
CCC #M77	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M73	No
CCC #M78	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M74	No
CCC #M79	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M75	No
CCC #M80	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M76	No
CCC #M81	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M77	No
CCC #M82	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M78	No
CCC #M83	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M79	No
CCC #M84	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M80	No
CCC #M85	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M81	No
CCC #M86	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M82	No
CCC #M87	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M83	No
CCC #M88	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M84	No
CCC #M89	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M85	No
CCC #M90	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M86	No
CCC #M91	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M87	No
CCC #M92	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M88	No
CCC #M93	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M89	No
CCC #M94	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M90	No
CCC #M95	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M91	No
CCC #M96	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M92	No
CCC #M97	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M93	No
CCC #M98	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M94	No
CCC #M99	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M95	No
CCC #M100	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M96	No
CCC #M101	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M97	No
CCC #M102	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M98	No
CCC #M103	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M99	No
CCC #M104	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M100	No
CCC #M105	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M101	No
CCC #M106	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M102	No
CCC #M107	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M103	No
CCC #M108	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M104	No
CCC #M109	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M105	No
CCC #M110	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M106	No
CCC #M111	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M107	No
CCC #M112	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M108	No
CCC #M113	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M109	No
CCC #M114	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M110	No
CCC #M115	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M111	No
CCC #M116	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M112	No
CCC #M117	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M113	No
CCC #M118	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M114	No
CCC #M119	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M115	No
CCC #M120	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M116	No
CCC #M121	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M117	No
CCC #M122	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M118	No
CCC #M123	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M119	No
CCC #M124	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M120	No
CCC #M125	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M121	No
CCC #M126	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M122	No
CCC #M127	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M123	No
CCC #M128	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M124	No
CCC #M129	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M125	No
CCC #M130	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M126	No
CCC #M131	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M127	No
CCC #M132	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M128	No
CCC #M133	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M129	No
CCC #M134	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M130	No
CCC #M135	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M131	No
CCC #M136	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M132	No
CCC #M137	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M133	No
CCC #M138	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M134	No
CCC #M139	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M135	No
CCC #M140	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M136	No
CCC #M141	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M137	No
CCC #M142	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M138	No
CCC #M143	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M139	No
CCC #M144	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M140	No
CCC #M145	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M141	No
CCC #M146	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M142	No
CCC #M147	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M143	No
CCC #M148	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M144	No
CCC #M149	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M145	No
CCC #M150	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M146	No
CCC #M151	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M147	No
CCC #M152	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M148	No
CCC #M153	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M149	No
CCC #M154	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M150	No
CCC #M155	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M151	No
CCC #M156	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M152	No
CCC #M157	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M153	No
CCC #M158	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M154	No
CCC #M159	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M155	No
CCC #M160	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M156	No
CCC #M161	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M157	No
CCC #M162	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M158	No
CCC #M163	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M159	No
CCC #M164	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M160	No
CCC #M165	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M161	No
CCC #M166	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M162	No
CCC #M167	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M163	No
CCC #M168	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M164	No
CCC #M169	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M165	No
CCC #M170	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M166	No
CCC #M171	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M167	No
CCC #M172	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M168	No
CCC #M173	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M169	No
CCC #M174	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M170	No
CCC #M175	CA [2A]-2A	5, 10, 15, 20	5, 10	CCC #M171	No
CCC #M176	CA [2A]-2A				

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 FCC Guidance, 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.

Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the 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.

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.
- When a device supports LTE capabilities with overlapping transmission frequency ranges, the standalone powers from the band with a larger transmission frequency range can be used to select measurement configurations for the band with the fully covered transmission frequency range.

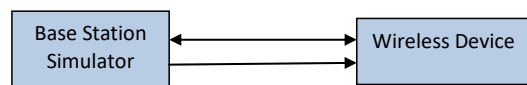


Figure 1
SISO CA Power Measurement Setup

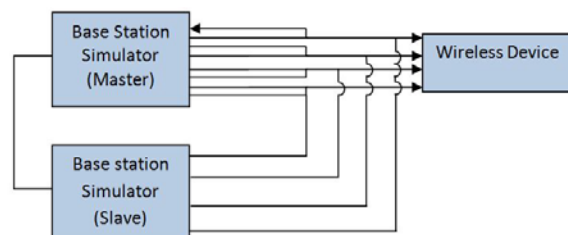


Figure 2
4x4 DL MIMO CA Power Measurement Setup

FCC ID: ZNFG710TM	 PCTEST ENGINEERING LABORATORY, INC.	SAR EVALUATION REPORT		Reviewed by: Quality Manager
Test Dates: 02/28/18 - 03/19/18	DUT Type: Portable Handset			APPENDIX H: Page 2 of 17

1.3 SISO Downlink Carrier Aggregation RF Conducted Powers

1.3.1 LTE Band 12 as PCC

Table 1
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC						SCC 1				SCC 2				SCC 3				Power		
			PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	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 4A-12A (1)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	25.35	25.32
CA 12A-66A (1)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	25.33	25.32
CA 2A-12A (1)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	25.32	25.32
CA 4A-12A (2)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	25.35	25.32
CA 12A-66A (2)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	25.33	25.32
CA 4A-12B	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B12	10	5107	738.7	LTE B4	20	2175	2132.5	-	-	-	-	25.29	25.32
CA 2A-12B	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	-	-	-	-	25.30	25.32
CA 12A-30A-66A-66A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	25.42	25.32
CA 2A-12A-66C	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	25.30	25.32
CA 2A-12A-30A-66A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B66	20	67236	2190	25.36	25.32
CA 2A-12A-30A-66A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B66	20	66786	2145	25.36	25.32
CA 2A-4A-12A-30A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	25.39	25.32
CA 2A-4A-4A-12A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	25.35	25.32
CA 4A-4A-12A-30A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	LTE B30	10	9820	2355	25.40	25.32
CA 2A-12A-66A-66A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2190	25.34	25.32
CA 2A-2A-12A-66A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	25.38	25.32
CA 2A-4A-12A-30A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	25.37	25.32

1.3.2 LTE Band 17 as PCC

Table 2
Maximum Output Powers

Combination	PCC									SCC 1				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	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]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 4A-17A	LTE B17	5	23755	706.5	QPSK	1	0	5755	736.5	LTE B4	10	2175	2132.5	25.24	25.32
CA 2A-17A	LTE B17	5	23755	706.5	QPSK	1	0	5755	736.5	LTE B2	10	900	1960	25.23	25.32

1.3.3 LTE Band 13 as PCC

Table 3
Maximum Output Powers

	PCC								SCC 1				Power		
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	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]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 4A-13A	LTE B13	10	23230	782	QPSK	1	25	5230	751	LTE B4	20	2175	2132.5	25.39	25.48
CA 13A-66A	LTE B13	10	23230	782	QPSK	1	25	5230	751	LTE B66	20	66786	2145	25.38	25.48

1.3.4 LTE Band 71 as PCC

Table 4
Maximum Output Powers

Combination	PCC									SCC 1				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	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]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 66A-71A	LTE B71	10	133297	680.5	QPSK	1	0	68761	634.5	LTE B66	20	66786	2145	25.49	25.50
CA 2A-71A	LTE B71	10	133297	680.5	QPSK	1	0	68761	634.5	LTE B2	20	900	1960	25.50	25.50
CA 4A-71A	LTE B71	10	133297	680.5	QPSK	1	0	68761	634.5	LTE B4	20	2175	2132.5	25.48	25.50

FCC ID: ZNFG710TM		SAR EVALUATION REPORT		Reviewed by: Quality Manager
Test Dates: 02/28/18 - 03/19/18	DUT Type: Portable Handset	APPENDIX H: Page 3 of 17		

1.3.5 LTE Band 5 as PCC

Table 5
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC										SCC 1		SCC 2		SCC 3		SCC 4		LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
			PCC (UL) Channel	PCC (UL) Freq [MHz]	Modulation	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]	
CA 4A-4A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B4	20	2175	2122.5	LTE B4	10	2350	2150	LTE B66	20	8678	2145	-	25.34	25.48
CA 2A-5A-5A-6A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B30	10	9800	1955	LTE B66	20	8678	2145	-	25.34	25.48
CA 2A-2A-5A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B2	20	900	1960	LTE B30	10	8678	2145	-	25.34	25.48
CA 2A-2A-5A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B66	20	8678	2145	LTE B66	20	8678	2145	-	25.34	25.48
CA 1B-6A-6A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B20	5	2453	874.3	LTE B66	20	8678	2145	LTE B66	20	8678	2145	-	25.34	25.48
CA 2A-2A-5A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B2	20	900	1960	LTE B66	20	8678	2145	-	25.34	25.48
CA 2A-2A-5A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B4	20	2175	2122.5	LTE B30	10	8620	2155	-	25.34	25.48
CA 2A-2A-5A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B20	10	900	1960	LTE B66	20	8678	2145	LTE B66	20	8678	2145	-	25.34	25.48
CA 2A-2A-5A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B2	20	900	1960	LTE B66	20	8678	2145	-	25.34	25.48
CA 2A-2A-5A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B2	20	900	1960	LTE B30	10	8620	2155	-	25.34	25.48
CA 2A-2A-5A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B20	10	2453	874.3	LTE B2	20	900	1960	LTE B66	20	8678	2145	-	25.34	25.48
CA 2A-2A-5A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B2	20	900	1960	LTE B66	20	8678	2145	-	25.34	25.48
CA 2A-2A-5A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B2	20	900	1960	LTE B30	10	8620	2155	-	25.34	25.48
CA 2A-2A-5A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	LTE B2	20	900	1960	LTE B66	20	8678	2145	-	25.34	25.48

1.3.6 LTE Band 4 as PCC

Table 6
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Channel	PCC (UL) Freq. [MHz]	PCC			SCC 1										SCC 2			SCC 3			Power	
					Modulation	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 (dBm)	LTE Single Carrier Tx Power (dBm)		
CA 4A-12A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	25.20	25.20		
CA 4A-12A (1)	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	25.20	25.20		
CA 4A-12A (2)	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	25.20	25.20		
CA 4A-17A	LTE B4	10	20300	1745	QPSK	1	0	2300	2145	LTE B17	10	5790	740	-	-	-	-	-	-	-	-	25.19	25.17		
CA 2A-4A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	25.12	25.20		
CA 4A-29A	LTE B4	10	20300	1745	QPSK	1	0	2300	2145	LTE B29	10	9715	722.5	-	-	-	-	-	-	-	-	25.18	25.17		
CA 4A-71A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B71	20	66763	634.5	-	-	-	-	-	-	-	-	25.19	25.20		
CA 4A-4A-29A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B4	20	2050	2120	LTE B29	10	9715	722.5	-	-	-	-	25.19	25.20		
CA 4A-12B	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B12	5	5095	737.5	LTE B12	5	5047	732.7	-	-	-	-	25.20	25.20		
CA 2A-2A-4A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B2	20	900	1960	LTE B2	20	900	1960	-	-	-	-	25.20	25.20		
CA 4A-4A-5A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B4	20	2050	2120	LTE B5	10	2525	881.5	-	-	-	-	25.13	25.20		
CA 4A-4A-7A (1)	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B4	20	2050	2120	LTE B7	20	3100	2655	-	-	-	-	25.16	25.20		
CA 2A-4A-29A-30A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B2	20	900	1960	LTE B29	10	9715	722.5	LTE B30	10	8620	2355	25.05	25.20		
CA 2A-4A-7A-12A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B2	20	900	1960	LTE B7	20	3100	2655	LTE B12	10	5095	737.5	24.99	25.20		
CA 2A-4A-4A-12A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B4	20	2300	2145	LTE B2	20	900	1960	LTE B12	10	5095	737.5	25.20	25.20		
CA 2A-4A-7A-7A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B2	20	900	1960	LTE B7	20	3100	2655	LTE B7	20	2850	2630	25.12	25.20		
CA 4A-4A-12A-30A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B4	20	2050	2120	LTE B12	5	5095	737.5	LTE B30	10	8620	2355	25.06	25.20		
CA 2A-4A-12A-30A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B30	10	8620	2355	24.94	25.20		
CA 2A-4A-5A-30A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B30	10	8620	2355	25.13	25.20		
CA 2A-4A-7C	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B2	20	900	1960	LTE B7	20	3100	2655	LTE B7	20	2902	2635.2	25.10	25.20		

Table 7
Reduced Output Powers

Combination	PCC										SCC 1			SCC 2			SCC 3			Power				
	PCC Band	PCC BW [MHz]	PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	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	LTE Single Carrier Tx Power (dBm)	
CA 4A-13A	LTE B4	20	20300	1720	QPSK	1	50	2050	2120	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	-	24.18	24.20
CA 4A-12A (1)	LTE B4	20	20300	1720	QPSK	1	50	2050	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	24.19	24.20
CA 4A-12A (2)	LTE B4	20	20300	1720	QPSK	1	50	2050	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	24.19	24.20
CA 4A-17A	LTE B4	10	20300	1745	QPSK	1	49	2300	2145	LTE B17	10	5790	740	-	-	-	-	-	-	-	-	-	24.18	24.20
CA 2A-4A	LTE B4	20	20300	1720	QPSK	1	50	2050	2120	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	24.15	24.20
CA 4A-29A	LTE B4	10	20300	1745	QPSK	1	49	2300	2145	LTE B29	10	9715	722.5	-	-	-	-	-	-	-	-	-	24.20	24.20
CA 4A-71A	LTE B4	20	20300	1720	QPSK	1	50	2050	2120	LTE B71	20	66763	634.5	-	-	-	-	-	-	-	-	-	24.18	24.20
CA 4A-4A-29A	LTE B4	20	20300	1720	QPSK	1	50	2050	2120	LTE B4	20	2300	2145	LTE B29	10	9715	722.5	-	-	-	-	-	24.19	24.20
CA 4A-12B	LTE B4	20	20300	1720	QPSK	1	50	2050	2120	LTE B12	5	5095	737.5	LTE B12	5	5047	732.7	-	-	-	-	-	24.17	24.20
CA 2A-2A-4A	LTE B4	20	20300	1720	QPSK	1	50	2050	2120	LTE B2	20	900	1960	LTE B2	20	900	1940	-	-	-	-	-	24.18	24.20
CA 4A-4A-5A	LTE B4	20	20300	1720	QPSK	1	50	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	-	-	-	-	-	24.20	24.20
CA 4A-4A-7A (1)	LTE B4	20	20300	1720	QPSK	1	50	2050	2120	LTE B4	20	2300	2145	LTE B7	20	3100	2655	-	-	-	-	-	24.20	24.20
CA 2A-4A-29A-30A	LTE B4	20	20300	1720	QPSK	1	50	2050	2120	LTE B2	20	900	1960	LTE B29	10	9715	722.5	LTE B30	10	8620	2155	24.20	24.20	
CA 2A-4A-7A-12A	LTE B4	20	20300	1720	QPSK	1	50	2050	2120	LTE B2	20	900	1960	LTE B7	20	3100	2655	LTE B12	10	5095	737.5	24.19	24.20	
CA 2A-4A-4A-12A	LTE B4	20	20300	1720	QPSK	1	50	2050	2120	LTE B4	20	2300	2145	LTE B2	20	900	1960	LTE B12	10	5095	737.5	24.19	24.20	
CA 2A-4A-7A-7A	LTE B4	20	20300	1720	QPSK	1	50	2050	2120	LTE B2	20	900	1960	LTE B7	20	3100	2655	LTE B7	20	2850	2630	24.07	24.20	
CA 4A-4A-12A-30A	LTE B4	20	20300	1720	QPSK	1	50	2050	2120	LTE B4	20	2300	2145	LTE B12	5	5095	737.5	LTE B30	10	8620	2155	24.16	24.20	
CA 2A-4A-12A-30A	LTE B4	20	20300	1720	QPSK	1	50	2050	2120	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B30	10	8620	2155	24.17	24.20	
CA 2A-4A-5A-30A	LTE B4	20	20300	1720	QPSK	1	50	2050	2120	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B30	10	8620	2155	24.20	24.20	
CA 2A-4A-7C	LTE B4	20	20300	1720	QPSK	1	50	2050	2120	LTE B2	20	900	1960	LTE B7	20	3100	2655	LTE B7	20	2902	2635.2	24.14	24.20	

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1.3.7 LTE Band 66 as PCC

Table 8
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power	
			PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	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	LTE Single Carrier Tx Power (dBm)			
CA 66A-71A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B71	20	66761	634.5	-	-	-	-	-	-	-	-	-	-	-	-	-	25.39	25.20		
CA 12A-66A (1)	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	25.39	25.20		
CA 13A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B13	10	5210	751	-	-	-	-	-	-	-	-	-	-	-	-	-	25.35	25.20		
CA 2A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B12	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	-	25.39	25.20		
CA 12A-66A (2)	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	25.39	25.20		
CA 7A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B7	20	1000	2050	-	-	-	-	-	-	-	-	-	-	-	-	-	25.37	25.25		
CA 66A-66C	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67008	2170.2	LTE B66	20	67236	2190	-	-	-	-	-	-	-	-	-	-	25.37	25.25	
CA 66C-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	66588	2125.2	LTE B66	20	67236	2190	-	-	-	-	-	-	-	-	-	-	25.39	25.30	
CA 2A-66B	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	66687	2135.1	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	26.26	26.17	
CA 26A-30A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B29	10	6715	722.5	LTE B30	10	6820	735	-	-	-	-	-	-	-	-	-	-	25.39	25.30	
CA 12A-30A-66A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B12	10	5095	737.5	LTE B30	10	6820	735	-	-	-	-	-	-	25.39	25.30	
CA 2A-12A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	66588	2125.2	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	-	-	25.29	25.20	
CA 2A-2A-66A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	-	-	25.29	25.20	
CA 2A-3A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	LTE B30	10	6820	735	-	-	-	-	-	-	25.33	25.20	
CA 2A-12A-30A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B12	10	5095	737.5	LTE B30	10	6820	735	-	-	-	-	-	-	25.35	25.20	
CA 2A-5A-66A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	-	25.35	25.20	
CA 3A-5A-66A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	-	-	-	-	-	-	25.36	25.20	
CA 2A-12A-66A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	-	-	25.35	25.20	
CA 2A-2A-12A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B2	20	900	1960	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	-	-	25.39	25.30	
CA 2A-2A-5A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B2	20	900	1960	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	-	25.33	25.20	
CA 3A-3A-5A-66A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	LTE B30	10	6820	735	-	-	-	-	-	-	25.39	25.30	
CA 2A-2A-66C	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	66588	2125.2	LTE B2	20	900	1960	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	25.36	25.20		
CA 2A-3A-5A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	-	-	-	-	-	-	25.36	25.20	

Table 9
Reduced Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power			
			PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	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 66A-71A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B71	20	66761	634.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.33	24.20		
CA 12A-66A (1)	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.13	24.20	
CA 13A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B13	10	5400	755	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.02	24.20	
CA 2A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B12	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.02	24.20	
CA 12A-66A (2)	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.13	24.20	
CA 7A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B7	20	1000	2055	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.17	24.20	
CA 66A-66C	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B66	20	67008	2170.2	LTE B66	20	67236	2190	-	-	-	-	-	-	-	-	-	-	-	-	-	24.18	24.20
CA 66C-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B66	20	66734	2139.8	LTE B66	20	67236	2190	-	-	-	-	-	-	-	-	-	-	-	-	-	24.20	24.20
CA 2A-66B	LTE B66	15	132522	1740	16QAM	1	0	66780	2146	LTE B66	5	66693	2125.7	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	-	24.20	24.20
CA 26A-30A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B29	10	6715	722.5	LTE B30	10	6820	735	-	-	-	-	-	-	-	-	-	-	-	-	-	24.15	24.20
CA 12A-30A-66A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B66	20	67236	2190	LTE B12	10	5095	737.5	LTE B30	10	6820	735	-	-	-	-	-	-	-	-	-	24.15	24.20
CA 2A-12A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B66	20	66734	2139.8	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	24.20	24.20
CA 2A-2A-66A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	24.16	24.20
CA 2A-5A-30A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	LTE B30	10	6820	735	-	-	-	-	-	-	-	-	-	24.16	24.20
CA 2A-3A-30A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	LTE B30	10	6820	735	-	-	-	-	-	-	-	-	-	24.16	24.20
CA 2A-5A-66A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	24.16	24.20
CA 3A-5A-66A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	-	-	-	-	-	-	-	-	-	24.16	24.20
CA 2A-12A-66A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	24.16	24.20
CA 2A-2A-5A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B2	20	900	1960	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	24.16	24.20
CA 2A-2A-5A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B30	10	6820	735	-	-	-	-	-	-	-	-	-	24.16	24.20
CA 5A-50A-66A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	LTE B30	10	6820	735	-	-	-	-	-	-	-	-	-	24.17	24.20
CA 2A-5A-66C-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B66	20	66734	2139.8	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	24.16	24.20
CA 2A-5B-50A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	LTE B30	10	6820	735	-	-	-	-	24.16	24.20	

1.4 4x4 Downlink MIMO RF Conduction Powers

This device supports downlink 4x4 MIMO operations for some LTE bands. Uplink transmission is limited to a single output stream. When carrier aggregation was applicable, the general test selection and setup procedures described in Section 1.2 were applied.

Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum average output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

1.4.1 LTE 4x4 DL MIMO Standalone Powers

Table 15
Maximum Output Powers

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]
4	20	20300	1745	QPSK	1	0	25.07	25.20
66	20	132322	1745	QPSK	1	0	25.15	25.20
2	20	19100	1900	QPSK	1	50	25.37	25.48

Table 16
Reduced Output Powers

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]
4	20	20050	1720	QPSK	1	50	24.18	24.20
66	20	132072	1720	QPSK	1	50	24.20	24.20
2	20	18925	1882.5	QPSK	1	0	24.45	24.50

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1.4.2 LTE Band 12 as PCC

Table 17
Maximum Output Powers

Combination	PCC										SCC 1				SCC 2				Power				
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL/RB	PCC UL/RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 12A-66A (1)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	25.22	25.32
CA 12A-66A (2)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	25.22	25.32
CA 12A-12A (1)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	-	25.28	25.32
CA 14A-12A (1)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	25.26	25.32
CA 14A-12A (2)	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	25.26	25.32
CA 12A-30A-66A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	25.21	25.32	
CA 12A-12A-66A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	25.25	25.32	
CA 2A-14A-12A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	25.23	25.32	
CA 12A-66A-66A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	25.28	25.32	
CA 2A-12A-166A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	25.21	25.32	
CA 14A-12A-30A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	25.22	25.32	
CA 12A-166C	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66984	2164.8	4x4 MIMO	25.22	25.32	
CA 12A-2A-12A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	25.23	25.32	
CA 12A-4A-12A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	25.22	25.32	
CA 12A-12A-30A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	25.25	25.32	
CA 14A-4A-12A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	25.22	25.32	
CA 14A-7A-12A	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B7	20	3100	2655	2x2 MIMO	25.26	25.32	

1.4.3 LTE Band 17 as PCC

Table 18
Maximum Output Powers

	PCC										SCC 1					Power	
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 14A-17A	LTE B17	5	23755	706.5	QPSK	1	0	5755	736.5	2x2 MIMO	LTE B4	10	2175	2132.5	4x4 MIMO	25.30	25.32
CA 2A-17A	LTE B17	5	23755	706.5	QPSK	1	0	5755	736.5	2x2 MIMO	LTE B2	10	900	1960	4x4 MIMO	25.20	25.32

1.4.4 LTE Band 5 as PCC

Table 19
Maximum Output Powers

PCC											SCC 1				SCC 2				Power			
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL/RB	PCC UL/RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 2A-2A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	25.40	25.48
CA 2A-5A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	25.33	25.48
CA 2A-14A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	25.36	25.48
CA 14A-4A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2250	2x2 MIMO	25.28	25.48
CA 5A-30A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	25.44	25.48
CA 2A-14A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	25.39	25.48
CA 14A-5A-30A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	25.33	25.48
CA 5A-166A-66A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67286	2190	2x2 MIMO	25.35	25.48
CA 2A-5A-30A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	25.32	25.48

FCC ID: ZNFG710TM		SAR EVALUATION REPORT		Reviewed by: Quality Manager
Test Dates: 02/28/18 - 03/19/18	DUT Type: Portable Handset			APPENDIX H: Page 8 of 17

1.4.5 LTE Band 4 as PCC

Table 20
Maximum Output Powers

Combination	PCC										SCC 1				SCC 2				Power				
	PCC Band	PCC BW [MHz]	PCC (U/L) Ch.	PCC (U/L) Freq. [MHz]	Mod.	PCC U/L RB	PCC UL RB Offset	PCC (D/L) Ch.	PCC (D/L) Freq. [MHz]	D/L Ant. Config.	SCC Band	SCC BW [MHz]	SCC (D/L) Ch.	SCC (D/L) Freq. [MHz]	D/L Ant. Config.	SCC Band	SCC BW [MHz]	SCC (D/L) Ch.	SCC (D/L) Freq. [MHz]	D/L Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA [4A]-17A	LTE B4	10	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B17	10	5790	740	2x2 MIMO	-	-	-	-	-	-	25.11	25.17
CA [4A]-14A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4	20	2050	2120	4x4 MIMO	-	-	-	-	-	-	25.03	25.20
CA [4A]-12A (1)	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	25.03	25.20
CA [4A]-29A	LTE B4	10	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	25.00	25.17
CA [4A]-12A (2)	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	25.03	25.20
CA [2A]-14A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	-	25.04	25.20
CA [2A]-4A-30A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B30	10	8820	2355	2x2 MIMO	-	25.17	25.20
CA 2A-[4A]-12A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	25.19	25.20
CA 2A-[4A]-5A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4	20	2050	2120	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	25.13	25.20
CA [4A]-4A-29A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4	20	2050	2120	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	25.17	25.20
CA [4A]-4A-29A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B4	20	2050	2120	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	25.15	25.20
CA [4A]-7A-7A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B7	20	3100	2655	2x2 MIMO	LTE B7	20	2850	2630	2x2 MIMO	-	25.20	25.20
CA [2A]-4A-4A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B4	20	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	25.14	25.20
CA 2A-[4A]-29A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	25.17	25.20
CA 2A-[4A]-7A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B7	20	3100	2655	2x2 MIMO	-	25.19	25.20
CA [4A]-12A-30A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B30	10	8820	2355	2x2 MIMO	-	25.17	25.20
CA [4A]-4A-5A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4	20	2050	2120	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	25.15	25.20
CA [4A]-4A-5A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4	20	2050	2120	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	25.19	25.20
CA [2A]-4A-12A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	25.15	25.20
CA [2A]-4A-5A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	25.11	25.20
CA 2A-2A-[4A]-5A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	25.13	25.20
CA 2A-[4A]-30A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	8820	2355	2x2 MIMO	-	25.20	25.20
CA [4A]-29A-30A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	LTE B30	10	8820	2355	2x2 MIMO	-	25.16	25.20
CA [4A]-5A-30A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B30	10	8820	2355	2x2 MIMO	-	25.14	25.20
CA [2A]-2A-4A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	25.15	25.20
CA [2A]-4A-29A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	25.16	25.20
CA 2A-[4A]-4A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4	20	2050	2120	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	25.20	25.20
CA 2A-[4A]-4A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B4	20	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	25.13	25.20
CA [4A]-4A-12A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4	20	2050	2120	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	25.18	25.20
CA [4A]-4A-12A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B4	20	2050	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	25.16	25.20
CA [4A]-7A-12A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B7	20	3100	2655	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	25.13	25.20

Table 21
Reduced Output Powers

Combination	PCC										SCC 1				SCC 2				Power				
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL/RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA [4A]-17A	LTE B4	10	20300	1745	QPSK	1	49	2300	2145	4x4 MIMO	LTE B17	10	5790	740	2x2 MIMO	-	-	-	-	-	-	24.13	24.20
CA [4A]-14A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	4x4 MIMO	-	-	-	-	-	-	24.07	24.20
CA [4A]-12A (1)	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	24.03	24.20
CA [4A]-29A	LTE B4	10	20500	1745	QPSK	1	49	2300	2145	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	24.16	24.20
CA [4A]-12A (2)	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	24.03	24.20
CA [2A]-14A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	-	24.05	24.20
CA [2A]-4A-30A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B30	10	8820	2355	2x2 MIMO	-	24.16	24.20
CA 2A-[4A]-12A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	24.13	24.20
CA 2A-[4A]-5A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B4	20	900	1960	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	24.15	24.20
CA [4A]-4A-29A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	24.19	24.20
CA [4A]-4A-29A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	24.13	24.20
CA [4A]-7A-7A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B7	20	3100	2655	2x2 MIMO	LTE B7	20	2850	2630	2x2 MIMO	-	24.15	24.20
CA [2A]-4A-4A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	24.16	24.20
CA 2A-[4A]-29A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	24.19	24.20
CA 2A-[4A]-7A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B7	20	3100	2655	2x2 MIMO	-	24.09	24.20
CA [4A]-12A-30A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B30	10	8820	2355	2x2 MIMO	-	24.15	24.20
CA [4A]-4A-5A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	24.19	24.20
CA [4A]-4A-5A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	24.15	24.20
CA [2A]-4A-12A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	24.19	24.20
CA [2A]-4A-1A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	24.20	24.20
CA 2A-2A-[4A]-5A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	24.20	24.20
CA 2A-[4A]-30A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	8820	2355	2x2 MIMO	-	24.17	24.20
CA [4A]-29A-30A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	LTE B30	10	8820	2355	2x2 MIMO	-	24.14	24.20
CA [4A]-5A-30A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B30	10	8820	2355	2x2 MIMO	-	24.20	24.20
CA [2A]-2A-4A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	24.19	24.20
CA [2A]-4A-4A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2300	2145	4x4 MIMO	-	24.17	24.20
CA 2A-[4A]-4A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	24.16	24.20
CA 2A-[4A]-1A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	24.11	24.20
CA [4A]-4A-1A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	24.13	24.20
CA [4A]-4A-1A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	24.19	24.20
CA [4A]-7A-1A	LTE B4	20	20500	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B7	20	3100	2655	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	24.11	24.20

1.4.6 LTE Band 66 as PCC

Table 22
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC 1				SCC 2				Power			
											SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 29A-(66A)	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	25.13	25.20
CA 12A-(66A) (1)	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	25.09	25.20
CA 12A-(66A) (2)	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	25.09	25.20
CA (66A)-(66A)	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	4x4 MIMO	-	-	-	-	-	25.19	25.20
CA (2A)-(66A)	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	25.20	25.20
CA 12A-30A-(66A)	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	25.18	25.20
CA (2A)-12A-(66A)	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	25.13	25.20
CA (2A)-5A-(66A)	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	25.19	25.20
CA (2A)-16C	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B66	20	66588	2125.2	4x4 MIMO	LTE B2	20	900	1960	4x4 MIMO	25.15	25.20
CA 2A-(66C)	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B66	20	66588	2125.2	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	25.12	25.20
CA (66C)-(66A)	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B66	20	66588	2125.2	4x4 MIMO	LTE B66	20	67236	2190	4x4 MIMO	25.17	25.20
CA 12A-(66A)-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	25.14	25.20
CA 5A-(66A)-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	25.16	25.20
CA (2A)-66A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	25.14	25.20
CA 2A-12A-(66A)	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	25.19	25.20
CA 2A-12A-(66A)	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	25.18	25.20
CA 5A-30A-(66A)	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	25.14	25.20
CA 12A-(66C)	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B66	20	66588	2125.2	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	25.17	25.20
CA (2A)-66B	LTE B66	10	132322	1745	QPSK	1	0	66786	2145	2x2 MIMO	LTE B66	10	66687	2135.1	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	25.13	25.17
CA 2A-(66A)-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	25.20	25.20
CA 2A-(66A)-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	25.20	25.20
CA 5A-(66A)-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	25.14	25.20
CA 5A-(66A)-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	25.18	25.20
CA (2A)-66C	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	2x2 MIMO	LTE B66	20	66588	2125.2	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	25.17	25.20
CA 2A-2A-(66A)	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B2	20	700	1940	2x2 MIMO	25.20	25.20
CA 2A-(66B)	LTE B66	10	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B66	10	66687	2135.1	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	25.14	25.17
CA (66A)-(66C)	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B66	20	67038	2170.2	4x4 MIMO	LTE B66	20	67236	2190	4x4 MIMO	25.19	25.20

Table 23
Reduced Output Powers

Combination	PCC										SCC 1				SCC 2				Power				
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 29A-(66A)	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	24.06	24.20
CA 12A-(66A) (1)	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	24.13	24.20
CA 12A-(66A) (2)	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	24.13	24.20
CA (66A)-(66A)	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	4x4 MIMO	-	-	-	-	-	-	24.10	24.20
CA (2A)-(66A)	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	-	24.09	24.20
CA 12A-30A-(66A)	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	24.03	24.20
CA (2A)-12A-(66A)	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	24.09	24.20
CA (2A)-5A-(66A)	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	24.15	24.20
CA (2A)-16C	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B66	20	66734	2139.8	4x4 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	24.10	24.20
CA 2A-(66C)	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B66	20	66734	2139.8	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	24.11	24.20
CA (66C)-(66A)	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B66	20	66734	2139.8	4x4 MIMO	LTE B66	20	67236	2190	4x4 MIMO	-	24.10	24.20
CA 12A-(66A)-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	24.06	24.20
CA 5A-(66A)-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	24.19	24.20
CA (2A)-66A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	24.15	24.20
CA 2A-12A-(66A)	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	24.12	24.20
CA 5A-30A-(66A)	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	24.10	24.20
CA 12A-(66C)	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B66	20	66734	2139.8	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	24.14	24.20
CA (2A)-66B	LTE B66	15	132322	1745	16QAM	1	0	66786	2145	2x2 MIMO	LTE B66	5	66693	2135.7	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	24.00	24.20
CA 2A-(66A)-66B	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	24.12	24.20
CA 2A-(66A)-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	24.20	24.20
CA 5A-(66A)-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	24.10	24.20
CA 5A-(66A)-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	24.14	24.20
CA (2A)-66C	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	2x2 MIMO	LTE B66	20	66734	2139.8	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	24.16	24.20
CA 2A-2A-(66A)	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B2	20	1940	2x2 MIMO	-	24.09	24.20	
CA 5A-3A-(66B)	LTE B66	15	132322	1745	16QAM	1	245	66786	2145	2x2 MIMO	LTE B66	5	66693	2135.7	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	24.00	24.20
CA (66A)-[66C]	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B66	20	67038	2170.2	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	-	24.08	24.20

1.4.7 LTE Band 2 as PCC

Table 24
Maximum Output Powers

PCC											SCC 1				SCC 2				Power				
Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]	
CA [2C]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B2	20	902	1960.2	4x4 MIMO	-	-	-	-	-	-	25.36	25.48
CA [2A]-[2A] (1)	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	25.37	25.48
CA [2A]-[2A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B2	20	700	1940	4x4 MIMO	-	-	-	-	-	-	25.40	25.48
CA [2A]-[2A]	LTE B2	5	19175	1907.5	QPSK	1	12	1175	1987.5	4x4 MIMO	LTE B17	10	5790	740	2x2 MIMO	-	-	-	-	-	-	25.41	25.47
CA [2A]-[66A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	25.39	25.48
CA [2A]-[29A]	LTE B2	5	19175	1907.5	QPSK	1	12	1175	1987.5	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	25.34	25.47
CA [2A]-[4A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	25.43	25.48
CA [2A]-[2A]-[66A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	25.39	25.48	
CA [2A]-[2A]-[5A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	25.40	25.48	
CA [2A]-[2A]-[5A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	25.37	25.48	
CA [2A]-[4A]-[30A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	25.38	25.48	
CA [2A]-[5A]-[66A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	25.38	25.48	
CA [2A]-[66C]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66984	2164.8	4x4 MIMO	25.48	25.48	
CA [2A]-[2A]-[12A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	25.40	25.48	
CA [2A]-[4A]-[5A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	25.41	25.48	
CA [2A]-[66C]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66984	2164.8	4x4 MIMO	25.48	25.48	
CA [2A]-[29A]-[30A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	25.47	25.48	
CA [2A]-[2A]-[66A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	25.48	25.48	
CA [2A]-[2A]-[66A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	25.43	25.48	
CA [2A]-[4A]-[4A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B4	10	2350	2150	2x2 MIMO	25.48	25.48	
CA [2A]-[66A]-[66A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	LTE B66	20	67236	2190	2x2 MIMO	25.48	25.48	
CA [2A]-[2A]-[66A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	25.41	25.48	
CA [2A]-[4A]-[29A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	25.45	25.48	
CA [2A]-[4A]-[7A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B7	10	2190	2655	2x2 MIMO	25.38	25.48	
CA [2A]-[2A]-[2A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	25.40	25.48	
CA [2A]-[2A]-[2A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	25.40	25.48	
CA [2A]-[2A]-[2A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	25.47	25.48	
CA [2A]-[4A]-[5A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	25.43	25.48	
CA [2A]-[66B]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B66	15	66786	2145	2x2 MIMO	LTE B66	5	66879	2154.3	2x2 MIMO	25.46	25.48	
CA [2A]-[2A]-[4A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	2x2 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	25.48	25.48	
CA [2A]-[2A]-[30A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	25.45	25.48	
CA [2A]-[66A]-[66A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	25.42	25.48	
CA [2A]-[2A]-[30A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	25.48	25.48	
CA [2A]-[2A]-[4A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	25.37	25.48	
CA [2A]-[2A]-[4A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	25.46	25.48	
CA [2A]-[4A]-[29A]	LTE B2	20	19100	1900	QPSK	1	50	1175	1987.5	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	25.46	25.48	
CA [2A]-[5A]-[30A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	25.39	25.48	
CA [2A]-[66C]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	LTE B66	20	66984	2164.8	2x2 MIMO	25.43	25.48	
CA [2A]-[2A]-[66A]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	2x2 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	25.46	25.48	
CA [2A]-[66A]-[4A]	LTE B2	20	19100	1900	QPSK	1	50	1175	1987.5	4x4 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	20	2190	2150	2x2 MIMO	25.48	25.48	
CA [2A]-[66B]	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	2x2 MIMO	LTE B66	15	66786	2145	4x4 MIMO	LTE B66	5	66879	2154.3	4x4 MIMO	25.43	25.48	

Table 25
Reduced Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC				SCC 1				SCC 2				Power					
						PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Power (dBm)	
CA [2C]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B2	20	727	1942.7	4x4 MIMO	-	-	-	-	-	-	24.48	24.50
CA [2A]-[2A] (1)	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	24.46	24.50
CA [2A]-[2A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B2	20	700	1940	4x4 MIMO	-	-	-	-	-	-	24.46	24.50
CA [2A]-[2A]	LTE B2	10	18925	1882.5	16QAM	1	0	925	1962.5	4x4 MIMO	LTE B17	10	5790	740	2x2 MIMO	-	-	-	-	-	-	24.46	24.47
CA [2A]-[66A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	24.50	24.50
CA [2A]-[29A]	LTE B2	5	18925	1882.5	16QAM	1	0	925	1962.5	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	24.36	24.47
CA [2A]-[4A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	24.49	24.50
CA [2A]-[2A]-[66A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	24.37	24.50	
CA [2A]-[2A]-[5A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	24.45	24.50	
CA [2A]-[2A]-[5A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	2x2 MIMO	LTE B2	20	727	1942.7	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	24.46	24.50	
CA [2A]-[4A]-[30A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	24.47	24.50	
CA [2A]-[5A]-[66A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	24.48	24.50	
CA [2A]-[66C]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66984	2154.8	4x4 MIMO	24.46	24.50	
CA [2A]-[4A]-[2A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	24.43	24.50	
CA [2A]-[4A]-[2A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B66	20	66984	2154.8	4x4 MIMO	24.46	24.50	
CA [2A]-[29A]-[30A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	24.44	24.50	
CA [2A]-[2A]-[66A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	24.45	24.50	
CA [2A]-[2A]-[66A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	24.45	24.50	
CA [2A]-[4A]-[4A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B4	20	2350	2150	2x2 MIMO	24.48	24.50	
CA [2A]-[66A]-[66A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	LTE B66	20	67236	2190	2x2 MIMO	24.47	24.50	
CA [2A]-[3A]-[66A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	24.50	24.50	
CA [2A]-[4A]-[29A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	24.44	24.50	
CA [2A]-[4A]-[7A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B7	10	3100	2655	2x2 MIMO	24.48	24.50	
CA [2A]-[2A]-[2A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	24.49	24.50	
CA [2A]-[2A]-[2A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	24.41	24.50	
CA [2A]-[2A]-[2A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B2	20	727	1942.7	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	24.50	24.50	
CA [2A]-[4A]-[5A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	24.45	24.50	
CA [2A]-[66B]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B66	15	66879	2145	2x2 MIMO	LTE B66	5	66879	2154.3	4x4 MIMO	24.48	24.50	
CA [2A]-[2A]-[4A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	2x2 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	24.43	24.50	
CA [2A]-[4A]-[29A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	24.50	24.50	
CA [2A]-[66A]-[66A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66986	2190	2x2 MIMO	24.49	24.50	
CA [2A]-[2A]-[30A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	24.40	24.50	
CA [2A]-[2A]-[4A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	24.41	24.50	
CA [2A]-[2A]-[4A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	24.43	24.50	
CA [2A]-[4A]-[29A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	24.50	24.50	
CA [2A]-[5A]-[30A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	24.43	24.50	
CA [2A]-[66A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	LTE B66	20	66984	2154.8	2x2 MIMO	24.50	24.50	
CA [2A]-[2A]-[66A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	2x2 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	24.50	24.50	
CA [2A]-[66A]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	2x2 MIMO	LTE B2	20	727	1942.7	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	24.47	24.50	
CA [2A]-[66B]	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	2x2 MIMO	LTE B66	15	66786	2145	4x4 MIMO	LTE B66	5	66879	2154.3	4x4 MIMO	24.47	24.50	

1.4.8 LTE Band 30 as PCC

Table 26
Maximum Output Powers

Combination	PCC										SCC 1					SCC 2					Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]
CA 12A-30A-66A	LTE B30	10	27710	2310	QPSK	1	0	9830	2355	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	25.34	25.38
CA 12A-4A-30A	LTE B30	10	27710	2310	QPSK	1	0	9830	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	25.38	25.38
CA 12A-29A-30A	LTE B30	10	27710	2310	QPSK	1	0	9830	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	25.36	25.38
CA 14A-12A-30A	LTE B30	10	27710	2310	QPSK	1	0	9830	2355	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	25.39	25.38
CA 5A-30A-66A	LTE B30	10	27710	2310	QPSK	1	0	9830	2355	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	25.35	25.38
CA 2A-4A-30A	LTE B30	10	27710	2310	QPSK	1	0	9830	2355	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	25.30	25.38
CA 14A-29A-30A	LTE B30	10	27710	2310	QPSK	1	0	9830	2355	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	25.36	25.38
CA 14A-1A-30A	LTE B30	10	27710	2310	QPSK	1	0	9830	2355	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	25.37	25.38
CA 12A-12A-30A	LTE B30	10	27710	2310	QPSK	1	0	9830	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	25.33	25.38
CA 12A-5A-30A	LTE B30	10	27710	2310	QPSK	1	0	9830	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	25.32	25.38

1.4.9 LTE Band 7 as PCC

Table 27
Maximum Output Powers

Combination	PCC										SCC 1					SCC 2					Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]
CA 14A-7A-7A	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	2x2 MIMO	LTE B7	20	3350	2680	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	25.44	25.45
CA 2A-14A-7A	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	25.34	25.45
CA 14A-7A-12A	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	25.41	25.45

FCC ID: ZNFG710TM



SAR EVALUATION REPORT



Reviewed by:
Quality Manager

Test Dates:
02/28/18 - 03/19/18

DUT Type:
Portable Handset

APPENDIX H:
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1.5 LAA Downlink Carrier Aggregation

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. Due to the wide downlink bandwidth, each Band 46 sub-band, represented by subscripts A, B, C, and D, was evaluated independently. The general test selection and setup procedures described in Section 1.2 were applied.

Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the 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.

1.5.1 SISO LAA Downlink Carrier Aggregation RF Conducted Powers

1.5.1.1 LTE Band 13 as PCC

Table 28
Maximum Output Powers

Combination	PCC									SCC 1				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_13A-46 _A A	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B46 _A	20	47290	5200	25.33	25.49
CA_13A-46 _B A	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B46 _B	20	48290	5300	25.29	25.49
CA_13A-46 _C A	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B46 _C	20	51290	5600	25.30	25.49
CA_13A-46 _D A	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B46 _D	20	53140	5785	25.32	25.49

1.5.1.2 LTE Band 4 as PCC

Table 29
Maximum Output Powers

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) Ch.	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_4A-46 _A A-46 _C A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B46 _A	20	47090	5180	LTE B46 _B	20	53540	5825	-	-	-	-	25.17	25.20
CA_4A-46 _A A-46 _C C	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B46 _B	20	47090	5180	LTE B46 _C	20	53540	5825	LTE B46 _D	20	53342	5805.2	25.18	25.20
CA_4A-46 _A A-46 _C D	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B46 _C	20	53540	5825	LTE B46 _D	20	47090	5180	LTE B46 _A	20	47288	5199.8	25.15	25.20
CA_4A-46 _B A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B46 _D	20	47290	5200	LTE B46 _A	20	47488	5219.8	LTE B46 _B	20	47092	5180.2	25.18	25.20
CA_4A-46 _B D	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B46 _A	20	48290	5300	LTE B46 _B	20	48488	5319.8	LTE B46 _C	20	48092	5280.2	25.16	25.20
CA_4A-46 _C D	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B46 _B	20	51290	5600	LTE B46 _C	20	51488	5619.8	LTE B46 _D	20	51092	5580.2	25.17	25.20
CA_4A-46 _D D	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B46 _C	20	53140	5785	LTE B46 _D	20	53338	5804.8	LTE B46 _A	20	52942	5765.2	25.16	25.20

Table 30
Reduced Output Powers

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) Ch.	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_4A-46 _A A-46 _C A	LTE B4	20	20050	1720	QPSK	1	50	2050	2120	LTE B46 _A	20	47090	5180	LTE B46 _B	20	53540	5825	-	-	-	-	24.18	24.20
CA_4A-46 _A A-46 _C C	LTE B4	20	20050	1720	QPSK	1	50	2050	2120	LTE B46 _B	20	53540	5825	LTE B46 _C	20	47090	5180	LTE B46 _D	20	53342	5805.2	24.15	24.20
CA_4A-46 _B A-46 _C C	LTE B4	20	20050	1720	QPSK	1	50	2050	2120	LTE B46 _C	20	53540	5825	LTE B46 _D	20	47090	5180	LTE B46 _A	20	47288	5199.8	24.18	24.20
CA_4A-46 _B D	LTE B4	20	20050	1720	QPSK	1	50	2050	2120	LTE B46 _D	20	47290	5200	LTE B46 _A	20	47488	5219.8	LTE B46 _B	20	47092	5180.2	24.17	24.20
CA_4A-46 _C D	LTE B4	20	20050	1720	QPSK	1	50	2050	2120	LTE B46 _A	20	48290	5300	LTE B46 _B	20	48488	5319.8	LTE B46 _C	20	48092	5280.2	24.19	24.20
CA_4A-46 _D D	LTE B4	20	20050	1720	QPSK	1	50	2050	2120	LTE B46 _B	20	51290	5600	LTE B46 _C	20	51488	5619.8	LTE B46 _D	20	51092	5580.2	24.18	24.20
CA_4A-46 _D D	LTE B4	20	20050	1720	QPSK	1	50	2050	2120	LTE B46 _C	20	53140	5785	LTE B46 _D	20	53338	5804.8	LTE B46 _A	20	52942	5765.2	24.18	24.20

FCC ID: ZNFG710TM	 SAR EVALUATION REPORT		Reviewed by: Quality Manager
Test Dates: 02/28/18 - 03/19/18	DUT Type: Portable Handset		APPENDIX H: Page 13 of 17

1.5.1.3 LTE Band 66 as PCC

Table 31
Maximum Output Powers

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] Ch.	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 46A-66A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B46 ₁	20	47290	5200	-	-	-	-	-	-	-	-	-	25.19	25.20
CA 46A-66A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B46 ₁	20	48290	5300	-	-	-	-	-	-	-	-	-	25.15	25.20
CA 46A-66A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B46 ₁	20	51290	5600	-	-	-	-	-	-	-	-	-	25.16	25.20
CA 46A-66A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B46 ₁	20	53140	5785	-	-	-	-	-	-	-	-	-	25.17	25.20
CA 2A-46A-46A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B2	20	900	1960	LTE B46 ₁	20	47090	5180	LTE B46 ₁	20	53540	5825	-	-	-	-	-	25.20	25.20
CA 2A-46A-46A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B2	20	900	1960	LTE B46 ₁	20	47090	5180	LTE B46 ₁	20	53540	5825	LTE B46 ₁	20	53342	5805.2	25.16	25.20	
CA 2A-46A-46A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B2	20	900	1960	LTE B46 ₁	20	53540	5825	LTE B46 ₁	20	47090	5180	LTE B46 ₁	20	47288	5199.8	25.18	25.20	
CA 2A-46A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B2	20	900	1960	LTE B46 ₁	20	47290	5200	LTE B46 ₁	20	47488	5219.8	LTE B46 ₁	20	47092	5180.2	25.17	25.20	
CA 2A-46A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B2	20	900	1960	LTE B46 ₁	20	48290	5300	LTE B46 ₁	20	48488	5319.8	LTE B46 ₁	20	48092	5280.2	25.19	25.20	
CA 2A-46A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B2	20	900	1960	LTE B46 ₁	20	51290	5600	LTE B46 ₁	20	51488	5619.8	LTE B46 ₁	20	51092	5580.2	25.18	25.20	
CA 2A-46A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B2	20	900	1960	LTE B46 ₁	20	53140	5785	LTE B46 ₁	20	53338	5804.8	LTE B46 ₁	20	52942	5765.2	25.20	25.20	

Table 32
Reduced Output Powers

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] Ch.	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 46A-66A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B66	20	66536	2120	LTE B46 ₁	20	47290	5200	-	-	-	-	-	-	-	-	-	24.19	24.20
CA 46A-66A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B66	20	66536	2120	LTE B46 ₁	20	48290	5300	-	-	-	-	-	-	-	-	-	24.20	24.20
CA 46A-66A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B66	20	66536	2120	LTE B46 ₁	20	51290	5600	-	-	-	-	-	-	-	-	-	24.14	24.20
CA 46A-66A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B66	20	66536	2120	LTE B46 ₁	20	53140	5785	-	-	-	-	-	-	-	-	-	24.15	24.20
CA 2A-46A-46A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B2	20	900	1960	LTE B46 ₁	20	47090	5180	LTE B46 ₁	20	53540	5825	-	-	-	-	-	24.18	24.20
CA 2A-46A-46A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B2	20	900	1960	LTE B46 ₁	20	47090	5180	LTE B46 ₁	20	53540	5825	LTE B46 ₁	20	53342	5805.2	24.18	24.20	
CA 2A-46A-46A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B2	20	900	1960	LTE B46 ₁	20	53540	5825	LTE B46 ₁	20	47090	5180	LTE B46 ₁	20	47288	5199.8	24.18	24.20	
CA 2A-46A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B2	20	900	1960	LTE B46 ₁	20	47290	5200	LTE B46 ₁	20	47488	5219.8	LTE B46 ₁	20	47092	5180.2	24.11	24.20	
CA 2A-46A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B2	20	900	1960	LTE B46 ₁	20	48290	5300	LTE B46 ₁	20	48488	5319.8	LTE B46 ₁	20	48092	5280.2	24.09	24.20	
CA 2A-46A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B2	20	900	1960	LTE B46 ₁	20	51290	5600	LTE B46 ₁	20	51488	5619.8	LTE B46 ₁	20	51092	5580.2	24.19	24.20	
CA 2A-46A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	LTE B2	20	900	1960	LTE B46 ₁	20	53140	5785	LTE B46 ₁	20	53338	5804.8	LTE B46 ₁	20	52942	5765.2	24.16	24.20	

1.5.1.4 LTE Band 2 as PCC

Table 33
Maximum Output Powers

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] Ch.	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)				
CA 2A-46A-46A-66A	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	LTE B46 ₁	20	47090	5180	LTE B46 ₁	20	53540	5825	LTE B66	20	66786	2145	-	25.45	25.45			
CA 2A-46A-46A-66A	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	LTE B46 ₁	20	47090	5180	LTE B46 ₁	20	53540	5825	LTE B46 ₁	20	53342	5805.2	LTE B66	20	66786	2145	25.48	25.45
CA 2A-46A-46A-66A	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	LTE B46 ₁	20	53540	5825	LTE B46 ₁	20	47090	5180	LTE B46 ₁	20	47288	5199.8	LTE B66	20	66786	2145	25.50	25.45
CA 2A-46A-66A	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	LTE B46 ₁	20	47290	5200	LTE B46 ₁	20	47488	5219.8	LTE B46 ₁	20	47092	5180.2	LTE B66	20	66786	2145	25.46	25.45
CA 2A-46A-66A	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	LTE B46 ₁	20	48290	5300	LTE B46 ₁	20	48488	5319.8	LTE B46 ₁	20	48092	5280.2	LTE B66	20	66786	2145	25.49	25.45
CA 2A-46A-66A	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	LTE B46 ₁	20	51290	5600	LTE B46 ₁	20	51488	5619.8	LTE B46 ₁	20	51092	5580.2	LTE B66	20	66786	2145	25.43	25.45
CA 2A-46A-66A	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	LTE B46 ₁	20	53140	5785	LTE B46 ₁	20	53338	5804.8	LTE B46 ₁	20	52942	5765.2	LTE B66	20	66786	2145	25.41	25.45

Table 34
Reduced Output Powers

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] Ch.	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)				
CA 2A-46A-46A-66A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	LTE B46 ₁	20	47090	5180	LTE B46 ₁	20	53540	5825	LTE B66	20	66786	2145	-	24.48	24.50			
CA 2A-46A-46A-66A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	LTE B46 ₁	20	47090	5180	LTE B46 ₁	20	53540	5825	LTE B46 ₁	20	53342	5805.2	LTE B66	20	66786	2145	24.50	24.50
CA 2A-46A-46A-66A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	LTE B46 ₁	20	53540	5825	LTE B46 ₁	20	47090	5180	LTE B46 ₁	20	47288	5199.8	LTE B66	20	66786	2145	24.48	24.50
CA 2A-46A-66A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	LTE B46 ₁	20	47290	5200	LTE B46 ₁	20	47488	5219.8	LTE B46 ₁	20	47092	5180.2	LTE B66	20	66786	2145	24.42	24.50
CA 2A-46A-66A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	LTE B46 ₁	20	48290	5300	LTE B46 ₁	20	48488	5319.8	LTE B46 ₁	20	48092	5280.2	LTE B66	20	66786	2145	24.50	24.50
CA 2A-46A-66A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	LTE B46 ₁	20	51290	5600	LTE B46 ₁	20	51488	5619.8	LTE B46 ₁	20	51092	5580.2	LTE B66	20	66786	2145	24.45	24.50
CA 2A-46A-66A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	LTE B46 ₁	20	53140	5785	LTE B46 ₁	20	53338	5804.8	LTE B46 ₁	20	52942	5765.2	LTE B66	20	66786	2145	24.47	24.50

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1.5.1.5 LTE Band 7 as PCC

Table 35
Maximum Output Powers

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) Ch.	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7A-46A (1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B46 _A	20	47290	5200	-	-	-	-	-	-	-	-	25.42	25.45
CA_7A-46A (1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B46 _A	20	48290	5300	-	-	-	-	-	-	-	-	25.44	25.45
CA_7A-46A (1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B46 _A	20	51290	5600	-	-	-	-	-	-	-	-	25.45	25.45
CA_7A-46A (1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B46 _A	20	53140	5785	-	-	-	-	-	-	-	-	25.44	25.45
CA_7A-46C (1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B46 _C	20	47290	5200	LTE B46 _A	20	47488	5219.8	-	-	-	-	25.42	25.45
CA_7A-46C (1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B46 _C	20	48290	5300	LTE B46 _A	20	48488	5319.8	-	-	-	-	25.44	25.45
CA_7A-46C (1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B46 _C	20	51290	5600	LTE B46 _C	20	51488	5619.8	-	-	-	-	25.50	25.45
CA_7A-46C (1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B46 _C	20	53140	5785	LTE B46 _C	20	53338	5804.8	-	-	-	-	25.47	25.45
CA_7A-46D (1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B46 _D	20	47290	5200	LTE B46 _A	20	47488	5219.8	LTE B46 _A	20	47092	5180.2	25.48	25.45
CA_7A-46D (1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B46 _D	20	48290	5300	LTE B46 _A	20	48488	5319.8	LTE B46 _A	20	48092	5280.2	25.46	25.45
CA_7A-46D (1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B46 _D	20	51290	5600	LTE B46 _C	20	51488	5619.8	LTE B46 _C	20	51092	5580.2	25.48	25.45
CA_7A-46D (1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B46 _D	20	53140	5785	LTE B46 _C	20	53338	5804.8	LTE B46 _C	20	52942	5765.2	25.44	25.45

FCC ID: ZNFG710TM



SAR EVALUATION REPORT



Reviewed by:
Quality Manager

Test Dates:
02/28/18 - 03/19/18

DUT Type:
Portable Handset

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1.5.2 4x4 DL MIMO LAA Downlink Carrier Aggregation RF Conducted Powers

1.5.2.1 LTE Band 4 as PCC

Table 36
Maximum Output Powers

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] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA [4A]-46A-46A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B46	20	47090	5180	2x2 MIMO	LTE B46	20	53540	5825	2x2 MIMO	-	-	-	-	-	25.17	25.20
CA [4A]-46A-46C	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B46	20	47090	5180	2x2 MIMO	LTE B46	20	53342	5805.2	2x2 MIMO	LTE B46	20	53342	5805.2	2x2 MIMO	25.18	25.20
CA [4A]-46A-46C	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B46	20	53540	5825	2x2 MIMO	LTE B46	20	47090	5180	2x2 MIMO	LTE B46	20	47288	5199.8	2x2 MIMO	25.18	25.20
CA [4A]-46D	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B46	20	47290	5200	2x2 MIMO	LTE B46	20	47488	5219.8	2x2 MIMO	LTE B46	20	47092	5180.2	2x2 MIMO	25.14	25.20
CA [4A]-46D	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B46	20	48290	5300	2x2 MIMO	LTE B46	20	48488	5319.8	2x2 MIMO	LTE B46	20	48092	5280.2	2x2 MIMO	25.10	25.20
CA [4A]-46D	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B46	20	51290	5600	2x2 MIMO	LTE B46	20	51488	5619.8	2x2 MIMO	LTE B46	20	51092	5580.2	2x2 MIMO	25.09	25.20
CA [4A]-46D	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B46	20	53140	5785	2x2 MIMO	LTE B46	20	53338	5804.8	2x2 MIMO	LTE B46	20	52942	5765.2	2x2 MIMO	25.12	25.20

Table 37
Reduced Output Powers

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] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA [4A]-46A-46A	LTE B4	20	20050	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B46	20	47090	5180	2x2 MIMO	LTE B46	20	53540	5825	2x2 MIMO	-	-	-	-	-	24.04	24.20
CA [4A]-46A-46C	LTE B4	20	20050	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B46	20	47090	5180	2x2 MIMO	LTE B46	20	53342	5805.2	2x2 MIMO	LTE B46	20	53342	5805.2	2x2 MIMO	24.08	24.20
CA [4A]-46A-46C	LTE B4	20	20050	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B46	20	53540	5825	2x2 MIMO	LTE B46	20	47090	5180	2x2 MIMO	LTE B46	20	47288	5199.8	2x2 MIMO	24.16	24.20
CA [4A]-46D	LTE B4	20	20050	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B46	20	47290	5200	2x2 MIMO	LTE B46	20	47488	5219.8	2x2 MIMO	LTE B46	20	47092	5180.2	2x2 MIMO	24.17	24.20
CA [4A]-46D	LTE B4	20	20050	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B46	20	48290	5300	2x2 MIMO	LTE B46	20	48488	5319.8	2x2 MIMO	LTE B46	20	48092	5280.2	2x2 MIMO	24.18	24.20
CA [4A]-46D	LTE B4	20	20050	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B46	20	51290	5600	2x2 MIMO	LTE B46	20	51488	5619.8	2x2 MIMO	LTE B46	20	51092	5580.2	2x2 MIMO	24.16	24.20
CA [4A]-46D	LTE B4	20	20050	1720	QPSK	1	50	2050	2120	4x4 MIMO	LTE B46	20	53140	5785	2x2 MIMO	LTE B46	20	53338	5804.8	2x2 MIMO	LTE B46	20	52942	5765.2	2x2 MIMO	24.14	24.20

1.5.2.2 LTE Band 66 as PCC

Table 38
Maximum Output Powers

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] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA [2A]-46A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B46	20	47290	5200	2x2 MIMO	-	-	-	-	-	25.17	25.20
CA [2A]-46A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B46	20	48290	5300	2x2 MIMO	-	-	-	-	-	25.19	25.20
CA [2A]-46A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B46	20	51290	5600	2x2 MIMO	-	-	-	-	-	25.16	25.20
CA [2A]-46A-66A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B46	20	53140	5785	2x2 MIMO	-	-	-	-	-	25.14	25.20
CA 46A-46A-166A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B46	20	47090	5180	2x2 MIMO	LTE B46	20	53540	5825	2x2 MIMO	-	-	-	-	-	25.14	25.20
CA 46A-46C-166A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B46	20	47090	5180	2x2 MIMO	LTE B46	20	53540	5825	2x2 MIMO	LTE B46	20	53342	5805.2	2x2 MIMO	25.18	25.20
CA 46A-46C-166A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B46	20	53540	5825	2x2 MIMO	LTE B46	20	47090	5180	2x2 MIMO	LTE B46	20	47288	5199.8	2x2 MIMO	25.14	25.20
CA 46D-166A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B46	20	47290	5200	2x2 MIMO	LTE B46	20	47488	5218.8	2x2 MIMO	LTE B46	20	47092	5180.2	2x2 MIMO	25.16	25.20
CA 46D-166A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B46	20	48290	5300	2x2 MIMO	LTE B46	20	48488	5318.8	2x2 MIMO	LTE B46	20	48092	5280.2	2x2 MIMO	25.18	25.20
CA 46D-166A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B46	20	51290	5600	2x2 MIMO	LTE B46	20	51488	5618.8	2x2 MIMO	LTE B46	20	51092	5580.2	2x2 MIMO	25.12	25.20
CA 46D-166A	LTE B66	20	132322	1745	QPSK	1	0	66786	2145	4x4 MIMO	LTE B46	20	53140	5785	2x2 MIMO	LTE B46	20	53338	5804.8	2x2 MIMO	LTE B46	20	52942	5765.2	2x2 MIMO	25.15	25.20

Table 39
Reduced Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC				SCC 1				SCC 2				SCC 3				LTE Tx Power with DL CA Enabled (dbm)	LTE Single Carrier Tx Power (dbm)		
								PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SBC Band	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SBC Band	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SBC Band	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.					
CA [2A]-46A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B46	20	47290	5200	2x2 MIMO	-	-	-	-	-	24.20	24.20
CA [2A]-46A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B46	20	48290	5300	2x2 MIMO	-	-	-	-	-	24.19	24.20
CA [2A]-46A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B46	20	51290	5600	2x2 MIMO	-	-	-	-	-	24.17	24.20
CA [2A]-46A-66A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B46	20	53140	5785	2x2 MIMO	-	-	-	-	-	24.20	24.20
CA 46A-46A-166A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B46	20	47090	5180	2x2 MIMO	LTE B46	20	53540	5825	2x2 MIMO	-	-	-	-	-	24.13	24.20
CA 46A-46C-166A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B46	20	47090	5180	2x2 MIMO	LTE B46	20	53540	5825	2x2 MIMO	LTE B46	20	53342	5805.2	2x2 MIMO	24.16	24.20
CA 46A-46C-166A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B46	20	53540	5825	2x2 MIMO	LTE B46	20	47090	5180	2x2 MIMO	LTE B46	20	47288	5199.8	2x2 MIMO	24.18	24.20
CA 46D-166A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B46	20	47290	5200	2x2 MIMO	LTE B46	20	47488	5219.8	2x2 MIMO	LTE B46	20	47092	5180.2	2x2 MIMO	24.18	24.20
CA 46D-166A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B46	20	48290	5300	2x2 MIMO	LTE B46	20	48488	5319.8	2x2 MIMO	LTE B46	20	48092	5280.2	2x2 MIMO	24.15	24.20
CA 46D-166A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B46	20	51290	5600	2x2 MIMO	LTE B46	20	51488	5619.8	2x2 MIMO	LTE B46	20	51092	5580.2	2x2 MIMO	24.18	24.20
CA 46D-166A	LTE B66	20	132072	1720	QPSK	1	50	66536	2120	4x4 MIMO	LTE B46	20	53140	5785	2x2 MIMO	LTE B46	20	53338	5804.8	2x2 MIMO	LTE B46	20	52942	5765.2	2x2 MIMO	24.20	24.20

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1.5.2.3 LTE Band 2 as PCC

Table 40
Maximum Output Powers

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] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dbm)	LTE Single Carrier Tx Power (dbm)
CA [2A]-46 ₀ A-46 ₀ A	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B46 ₀	20	47090	5180	2x2 MIMO	LTE B46 ₀	20	53540	5825	2x2 MIMO	-	-	-	-	-	25.47	25.48
CA [2A]-46 ₀ A-66A	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B46 ₀	20	47290	5200	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	25.42	25.48
CA [2A]-46 ₀ A-66A	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B46 ₀	20	48290	5300	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	25.50	25.48
CA [2A]-46 ₀ A-66A	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B46 ₀	20	51290	5600	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	25.48	25.48
CA [2A]-46 ₀ A-66A	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B46 ₀	20	53140	5785	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	25.47	25.48
CA [2A]-46 ₀ A-46 ₀ C	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B46 ₀	20	47090	5180	2x2 MIMO	LTE B46 ₀	20	53540	5825	2x2 MIMO	LTE B46 ₀	20	53342	5805.2	2x2 MIMO	25.46	25.48
CA [2A]-46 ₀ A-46 ₀ C	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B46 ₀	20	53540	5825	2x2 MIMO	LTE B46 ₀	20	47090	5180	2x2 MIMO	LTE B46 ₀	20	47288	5199.8	2x2 MIMO	25.41	25.48
CA [2A]-46 ₀ D	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B46 ₀	20	47290	5200	2x2 MIMO	LTE B46 ₀	20	47488	5219.8	2x2 MIMO	LTE B46 ₀	20	47092	5180.2	2x2 MIMO	25.44	25.48
CA [2A]-46 ₀ D	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B46 ₀	20	48290	5300	2x2 MIMO	LTE B46 ₀	20	48488	5319.8	2x2 MIMO	LTE B46 ₀	20	48092	5280.2	2x2 MIMO	25.47	25.48
CA [2A]-46 ₀ D	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B46 ₀	20	51290	5600	2x2 MIMO	LTE B46 ₀	20	51488	5619.8	2x2 MIMO	LTE B46 ₀	20	51092	5580.2	2x2 MIMO	25.46	25.48
CA [2A]-46 ₀ D	LTE B2	20	19100	1900	QPSK	1	50	1100	1980	4x4 MIMO	LTE B46 ₀	20	53140	5785	2x2 MIMO	LTE B46 ₀	20	53338	5804.8	2x2 MIMO	LTE B46 ₀	20	52942	5765.2	2x2 MIMO	25.50	25.48

Table 41
Reduced Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC										SCC 1				SCC 2				SCC 3				Power	
				PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dbm)	LTE Single Carrier Tx Power (dbm)
CA [2A]-46A-46A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B46	20	47090	5180	2x2 MIMO	LTE B46	20	53540	5825	2x2 MIMO	-	-	-	-	-	24.41	24.50
CA [2A]-46A-66A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B46	20	47290	5200	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	24.34	24.50
CA [2A]-46A-66A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B46	20	48290	5300	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	24.41	24.50
CA [2A]-46A-66A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B46	20	51290	5600	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	24.47	24.50
CA [2A]-46A-66A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B46	20	53140	5785	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	24.50	24.50
CA [2A]-46A-46C	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B46	20	47090	5180	2x2 MIMO	LTE B46	20	53540	5825	2x2 MIMO	LTE B46	20	53342	5805.2	2x2 MIMO	24.42	24.50
CA [2A]-46A-46C	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B46	20	53540	5825	2x2 MIMO	LTE B46	20	47090	5180	2x2 MIMO	LTE B46	20	47288	5199.8	2x2 MIMO	24.43	24.50
CA [2A]-46D	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B46	20	47290	5200	2x2 MIMO	LTE B46	20	47488	5219.8	2x2 MIMO	LTE B46	20	47092	5180.2	2x2 MIMO	24.46	24.50
CA [2A]-46D	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B46	20	48290	5300	2x2 MIMO	LTE B46	20	48488	5319.8	2x2 MIMO	LTE B46	20	48092	5280.2	2x2 MIMO	24.42	24.50
CA [2A]-46D	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B46	20	51290	5600	2x2 MIMO	LTE B46	20	51488	5619.8	2x2 MIMO	LTE B46	20	51092	5580.2	2x2 MIMO	24.48	24.50
CA [2A]-46D	LTE B2	20	18925	1882.5	QPSK	1	0	925	1962.5	4x4 MIMO	LTE B46	20	53140	5785	2x2 MIMO	LTE B46	20	53338	5804.8	2x2 MIMO	LTE B46	20	52942	5765.2	2x2 MIMO	24.45	24.50

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