10460-	UMTS-FDD (WCDMA, AMR)	X	0.76	67.21	14.98	0,00	150.0	± 9.6 %
AAA								
		Y	0.95	70.10	17.17		150.0	
		Z	0.78	67.8 <u>4</u>	15.35		150.0	
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	124.22	31.05	3.29	80.0	± 9.6 %
		Y	100.00	126.59	32.12		80.0	
		Ζ	100.00	126.67	32.13		80.0	
10462- 	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	1.13	62.20	9.29	3.23	80.0	±9.6 %
		Y	1.76	66.14	10.65	<u>+</u>	80.0	
		Z	1.32	63.88	10.13		80.0	100
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	0.91	60.00	7.67	3.23	80.0	±9.6 %
		<u>Y</u>	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)	Х	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)	Х	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	1
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)	×	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	-i -	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			<u> </u>		
				64.36	9.83		80.0	
10478-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-	† <u>₹</u>	1.17	62.77	9.54		80.0	
AAC	QAM, UL Subframe=2,3,4,7,8,9)		0.91	60.00	7.60	3.23	80.0	± 9.6 %
		Y	0.89	60.00	7.29		80.0	
10479-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	Z	0.89	60.00	7.65		80.0	+
AAA	QPSK, UL Subframe=2,3,4,7,8,9)	X	8.21	87.49	22.94	3.23	80.0	± 9.6 %
		<u> </u>	20.18	101.14	27.13		80.0	
10480-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	Z	18.46	99.74	26.54		80.0	
AAA	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	
10481-		Z	8.18	81.93	19.01		80.0	+
	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	<u>+</u>
10482-		<u>Z</u>	4.98	75.18	16.32		80.0	<u>├~~</u>
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 %
		Υ	3.01	72.46	16.59	<u> </u>	80.0	†·
10400		Z	2.33	69.25	14.80		80.0	<del> </del>
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.09	69.06	14.42	2.23	80.0	± 9.6 %
		Y	4.90	74.92	16.84		80.0	
10101		Ζ	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	
		Ž	3.05	68.75	14.10		80.0	<b>├─</b> ──-
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	
10 100		Ž	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	<u> </u>
		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	
<u></u>		Z	2.74	67.55	14.66		80.0	<u> </u>
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	
10.10		Ζ	3.25	68.82	16.89		80.0	
10490- \AC	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	
0404		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-	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 %
<u>4AC</u>	10 dr un, OL OUDITAINE=2,0,4,7,0,8)			1				
4AC		Y Z	3.76	68.54	17.20		80.0	

				·				
10493-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	Х	3.62	67.64	16.82	2.23	80.0	±9.6 %
AAC	64-QAM, UL Subframe=2,3,4,7,8,9)				47.4			
-		Y	3.82	68.40	17.14		80.0	
		Z	3.64	67.90	16.91		80.0	1000
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	х	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-	LTE-TDD (SC-FDMA, 100% RB, 1.4	x	1.28	60.00	8.33	2.23	80.0	± 9.6 %
AAA	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)							
		Y	1.38	60.59	8.91		80.0	
_		Z	1.25	60.00	8.01		80.0	
10499-	LTE-TDD (SC-FDMA, 100% RB, 1.4	X	1.30	60.00	8.19	2.23	80.0	±9.6 %
AAA	MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)					_		
		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 %
		ΤΥ	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	<b></b>	80.0	
		Z	3.30	72.21	18.35	<u> </u>	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)	×	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%
	Coonamo _2,0,+,1,0,0)	Y	3.78	68.84	17.36		80.0	1
		Ż	3.59	68.29	17.13		80.0	
			0.00		1 11.10		00.0	

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 %
		Ý	3.85	68.55	17.26	+ <b></b>	80.0	+ <u> </u>
		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	<u> -</u>	80.0	<u> </u>
		Ž	4.14	70.76	17.87	<u> </u>	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 %
		Ŷ	4.24	68.50	17.33		80.0	+
10.00		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 %
		Ϋ́	4.30	68.25	17.26	<u> </u>	80.0	<u>+</u>
40545		Z	4.12	67.74	17.08	<u> </u>	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	+
10513-		Ż	4.32	72.22	18.32	i	80.0	<u>†∙−−</u>
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	
10514-		Z	3.95	68.18	17.23		80.0	
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	
10545		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	_
10516-		Z	0.87	62.85	14.30		150.0	
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 %
		<u>Y</u>	0.68	73.95	19.23		150.0	
10517-		Z	0.52	70.86	16.45		150.0	
	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	
10518-		Z	0.72	64.67	14.76		150.0	
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 %
	<u> </u>	Y I	4.46	66.94	16.23		150.0	
10519-		Z	4.35	66.64	16.08		150.0	
4AB	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	
10520-		Z	4.51	66.84	16.19		150.0	
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	
10521-		Z	4.37	66.78	16.10		150.0	
	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 %
	<u> </u>	Y	4.42	67.10	16.25		150.0	
10522-		Z	4.30	66.76	16.08		150.0	
AA <u>B</u>	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 %
	[	Ý	4.48	67.21	16.34		4 - 0.0	
		z	4.36	66.90	16.19		150.0 150.0	

10523-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48	X	4.29	66.70	16.01	0.00	150.0	±9.6 %
AAB	Mbps, 99pc duty cycle)					0.00		20.0 //
		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		1 <u>50.0</u>	
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 %
		Ϋ́	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)	Х	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	
<u> </u>		Z	4.95	66.35	15.97	<u> </u>	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	<u> </u>	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	
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	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	
10542-		Z	4.93	66.22	15.95		150.0	<u> </u>
<u>AAB</u>	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.12	66.28	15.99	0.00	150.0	±9.6 %
		Ý	5.19	66.62	16.12		150.0	<u>+</u>
10543-		Z	5.09	66.32	16.02		150.0	+
AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.19	66.29	16.02	0.00	150.0	± 9.6 %
<u> </u>		<u>Y</u>	5.25	66.63	16.15		150.0	
10544-		Z	5.15	66.34	16.05		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.31	66.31	15.91	0.00	150.0	± 9.6 %
		<u>Y</u>	5.37	66.66	16.05		150.0	
10545-		Z	5.28	66.35	15.94		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.50	66.75	16.09	0.00	150.0	± 9.6 %
		Ŷ	5.54	67.02	16.18		150.0	
10546-		Z	5.47	66.79	16.11		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	×	5.36	66.48	15.97	0.00	150.0	± 9.6 %
		Y	5.42	66.83	16.10		150.0	
10547-		Z	5.33	66.50	15.98		150.0	<u> </u>
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	
10548-		Z	5.40	66.57	16.01		150.0	
<u>AAB</u>	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	
10550-		Z	5.60	67.37	16.38		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.40	66.56	16.02	0.00	150.0	± 9.6 %
	<u> </u>	Ý	5.45	66.87	16.13		150.0	
10551-		Z	5.37	66.62	<u>16.05</u>		150.0	
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	
10552-		Z	5.35	66.53	15.97		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.32	66.38	15.89	0.00	150.0	±9.6%
	<u> </u>	Y	5.38	66.76	16.04		150.0	
10553-		- Z	5.29	66.43	15.92		150.0	
	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	×	5.39	66.39	15.93	0.00	150.0	±9.6 %
		Y	5.45	66.75	16.07		150.0	
10554-		Z	5.36	66.42	15.95		150.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.72	66.67	16.01	0.00	150.0	± 9.6 %
	·	Ý	5.77	67.00	16.12		150.0	
10555-	1666 802 1100 WIE: (160MU - MOO)	Z	5.70	66.69	16.02		150.0	
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	
10556-	IEEE 802.11ac WiFi (160MHz, MCS2,	Z	5.81	66.97	16.14		150.0	
4AC	99pc duty cycle)	X	5.87	67.02	16.15	0.00	150.0	±9.6 %
	<u> </u>	Y	5.91	67.31	16.25		150.0	
10557-			5.84	67.04	16.17		150.0	
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 %
////0		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 %
AAC		Y	5.84	67.19	16.30		150.0	_
	<u> </u>	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 %
<u></u>		Y	5.93	67.48	16.44	<u></u>	150.0	
		z	5.84	67.16	16.34		150.0	
10563-	IEEE 802.11ac WIFI (160MHz, MCS9,	T	6.00	67.15	16.29	0.00	150.0	± 9.6 %
AAC	99pc duty cycle)	Ŷ	6.02	67.38	16.35		150.0	
							150.0	
40501		Z	5.93	67.06	16.25	0.46		± 9.6 %
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	I 9.0 %
		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	67.3 <u>9</u>	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	
		Ż	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 %
		Ý	4.85	67.62	16.86	1	150.0	1
		Z	4.74	67.35	16.75		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	×	1.05	63.78	14.98	0.46	130.0	± 9.6 %
		Y	1.16	64.84	15.77	<u>+</u>	130.0	
		Z	1.06	64.03	15.14		130.0	
10572-	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 %
IAAA		Y	1.17	65.47	16.16		130.0	
				64.63	15.52	1	130.0	1
		Z			04.05	0.10	400.0	1000
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 %
10573-		X Y	1.81 2.93	84.33 92.85	25.80	0.46	130.0	± 9.6 %
10573- AAA	Mbps, 90pc duty cycle)	X Y Z	1.81 2.93 2.19	84.33 92.85 87.52	25.80 22.91		130.0 130.0	
10573-		X Y	1.81 2.93	84.33 92.85	25.80	0.46	130.0	± 9.6 %
10573- AAA 10574-	Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	X Y Z	1.81 2.93 2.19	84.33 92.85 87.52	25.80 22.91		130.0 130.0	

10575-	1555 800 44- W(5: 0.4 O) - (5000				, <u> </u>			
_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	
		Ż	4.32	66.26	15.84	<u> </u>	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	
		Ż	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 %
		Ý	5.41	67.36	16.73	1	_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	1
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	-
h		Z	5.14		10.02	1	1 100.0	1

10607- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	_ x	4.48	65.79	15.98	0.46	130.0	± 9.6 %
				-	$\vdash$		<u> </u>	L
	+	<u> </u>	4.55	66.14	16.12		130.0	
10608-		Z	4.46	<u>65.89</u>	16.02		130.0	
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	<u> </u>
		Z	4.51	66.08	15.99		130.0	<u> </u>
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	· <u> </u>	130.0	
		Z	4.47	66.19	16.05	<u> </u>	130.0	<u> </u>
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 %
		Ý	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 %
		Υ	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 %
		Ŷ	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	
100-		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 %
	<u> </u>	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	<u>1</u> 6.25		130.0	
1000 :		Z	5.15	66.30	16.20		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	×	5.20	66.42	16.38	0.46	130.0	± 9.6 %
		Y	5.25	66.70	16.46		130.0	
1		Z	5.17	66.46	16.41		130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	×	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				

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	1	130.0	
		Z	5.45	66.85	16.58		130.0	
10626-	IEEE 802.11ac WiFi (80MHz, MCS0,	X	5.45	66.29	16.56	0.46	130.0	±9.6 %
AAB	90pc duty cycle)					0.40		19.0 %
		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 %
<u>,,,,</u>		Y	5.57	66.66	16.17		130.0	
		z	5.51	66.44	16.12		130.0	
10630-	IEEE 802.11ac WiFi (80MHz, MCS4,	X	5.93	67.80	16.79	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)					0.40		1 9.0 %
	· · · · · · · · · · · · · · · · · · ·	Y	5.86	67.72	16.70		130.0	
40004		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	1 <u>6.9</u> 4		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	
	· · · · · · · · · · · · · · · · · · ·	Ż	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	<u> </u>	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-	IEEE 802.11ac WiFi (160MHz, MCS0,	X	5.87			0.46		+0-0 %
AAC	90pc duty cycle)			66.66	16.24	0.46	130.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	5.90	66.93	16.31	<u> </u>	130.0	
			5.85	66.69	16.27	<u> </u>	130.0	
				1 67 OF	16/2	0.46	130.0	
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	x_	6.02	67.05	16.42	0.40		± 9.6 %
10637-		Y	6.04	67.05	16.42		130.0	± 9.6 %
10637- AAC	90pc duty cycle)							± 9.6 %
10637- AAC 10638-	90pc duty cycle)	Y	6.04	67.25	16.46	0.46	130.0	± 9.6 %
10637- AAC	90pc duty cycle)	Y Z	6.04 5.99	67.25 67.06	16.46 16.43		130.0 130.0	

10639-	IEEE 802.11ac WiFi (160MHz, MCS3,		En					ruary 14, 2(
AAC	90pc duty cycle)		( 5.99	66.94	16.39	0.46	130.0	± 9.6 %
		Y		67.20	16.45		130.0	<u> </u>
10640-		Z	5.96	66.96	16.40		130.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)		5.99	66.93	16.32	0.46	130.0	± 9.6 9
		Y		67.17	16.38	+	130.0	
10641-		Z		66.93	16.33		130.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.05	66.90	16.33	0.46	130.0	± 9.6 %
		Y		67.10	16.36	+	130.0	
10642-	IEEE 802.11ac WiFi (160MHz, MCS6,	Z		66.93	16.35		130.0	
AAC	90pc duty cycle)	X		67.13	16.62	0.46	130.0	± 9.6 %
		- <u>Y</u>		67.39	16.68	† <b>-</b>	130.0	<u> </u>
10643-	IEEE 802.11ac WiFi (160MHz, MCS7,	Z		67.15	16.64		130.0	<u> </u>
	90pc duty cycle)	X		66.82	16.35	0.46	130.0	± 9.6 %
		<u> </u>		67.04	16.40		130.0	+
10644-	IEEE 802.11ac WiFi (160MHz, MCS8,	Z		66.84	16.37		130.0	<u>+</u>
AAC	90pc duty cycle)			67.19	16.56	0.46	130.0	± 9.6 %
		$- \overline{Y}$	6.06	67.41	16.60		130.0	<u> </u>
10645-	IEEE 802.11ac WiFi (160MHz, MCS9,	Z	5.99	67.13	16.53		130.0	
AAC	90pc duty cycle)	X	6.20	67.30	16.58	0.46	130.0	± 9.6 %
		Ŷ	6.18	67.42	16.57		130.0	
10646-	LTE-TDD (SC-FDMA, 1 RB, 5 MHz,	- <u>Z</u>	6.12	67.19	16.53		130.0	
AAD	QPSK, UL Subframe=2,7)		13.97	103.27	34.96	9.30	60.0	± 9.6 %
		Y	20.81	112.89	38.12		60.0	
10647-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	<u>Z</u>	13.67	103.09	35.06		60.0	
AAC	QPSK, UL Subframe=2,7)		12.30	101.10	34.41	9.30	60.0	± 9.6 %
		<u>Y</u> Z	17.37	109.51	37.26		60.0	
10648-	CDMA2000 (1x Advanced)		12.00	100.85	34.49		60.0	
1AA			0.49	61.28	8.20	0.00	150.0	± 9.6 %
		- Y	0.65	63.85	10.60		150.0	
0652-	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1,	Z	0.46	61.03	7.80		150.0	
AB	Clipping 44%)	X	3.40	66.41	16.15	2.23	80.0	± 9.6 %
			3.58	67.18	16.52		80.0	
0653- AB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	3.42 3.94	66.69 65.81	16.22 16.40	2.23	80.0 80.0	± 9.6 %
		Υ Υ	4.08	66.40	16.64			
		ż	3.94	66.00	16.64 16.46		80.0	
0654- AB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	3.93	65.47	16.46	2.23	80.0 80.0	± 9.6 %
		Y	4.06	66.03	16.64			
		Z	3.94	65.63	16.48		<u>    80.0    </u> 80.0	
0655- AB	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	
0658-	Pulso Mountain (0001)	Ζ	4.01	65.58	16.52		80.0	
AA	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	
0659-	Pulse Wayoform (00011- 0001)	Z	9.11	80.61	17.72		50.0	
4A	Pulse Waveform (200Hz, 20%)	X	35.68	94.53	19.76	6.99	60.0	±9.6 %
		Ý	100.00	107.23	23.45			
		z	100.00	106.51	_23.43	I	60.0	

10660-	Pulse Waveform (200Hz, 40%)	X	100.00	100.10	18.83	3.98	80.0	±9.6 %
AAA			100.00	106,47	21.86		80.0	
		Ż	100.00	102.58	20.01		80.0	
10661-	Pulse Waveform (200Hz, 60%)	X	1.25	67.33	8.37	2.22	100.0	± 9.6 %
AAA		Ý	100.00	108.17	21.47		100.0	
		Z	100.00	96.28	16.23		100.0	
10662-	Pulse Waveform (200Hz, 80%)	x	0.30	60.00	2.55	0.97	120.0	± 9.6 %
<u>AAA</u>	- <u> </u>		100.00	113.09	21.91		120.0	
<u> </u>		Z	0.20	60.00	3.18		120.0	

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

#### Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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- Service suisse d'étalonnage
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S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

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

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

	Name	Function	Signature
Calibreted by:	Leif Klysner	Laboratory Technician	NIII IIII.
			4 mig
Approved by:	Kalja Pokovic	Technical Manager	A H
			Issued: August 16, 2017
This calibration certificat	e shall not be reproduced except in f	ull without written approval of the lab	ioratory.

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



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Accreditation No.: SCS 0108

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tissue simulating liquid
sensitivity in free space
sensitivity in TSL / NORMx,y,z
diode compression point
crest factor (1/duty_cycle) of the RF signal
modulation dependent linearization parameters
φ rotation around probe axis
9 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
information used in DASY system to align probe sensor X to the robot coordinate system

## Calibration is Performed According to the Following Standards:

- a) 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
- b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) 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
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

## Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,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.
- DCPx,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
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,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 ≤ 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 NORMx,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 NORMx (no uncertainty required).

# Probe EX3DV4

## SN:7308

Manufactured: Calibrated:

March 11, 2014 August 16, 2017

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

## **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) <sup>2</sup> ) <sup>A</sup>	0.49	0.60	0.44	± 10.1 %
DCP (mV) <sup>B</sup>	97.0	91.7	98.5	

## **Modulation Calibration Parameters**

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc <sup>⊨</sup> (k=2)
0	CW	X	0.0	0.0	1.0	0.00	134.5	±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 <sup>-1</sup>	T1 ms.V <sup>-2</sup>	T2 ms.V⁻¹	T3 ms	T4 V <sup>-2</sup>	T5 V <sup>-1</sup>	Т6
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%.

<sup>A</sup> The uncertainties of Norm X,Y,Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Pages 5 and 6). <sup>B</sup> Numerical linearization parameter: uncertainty not required. <sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (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 %

## Calibration Parameter Determined in Head Tissue Simulating Media

<sup>c</sup> Frequency validity above 300 MHz of  $\pm$  100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to  $\pm$  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  $\pm$  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  $\pm$  110 MHz.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) 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 ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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

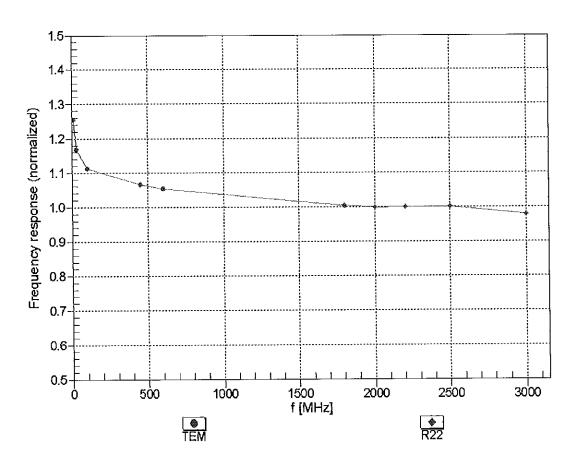
f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	55.5	0.96	10.39	10.39	10.39	0.54	0.85	± 12.0 %
835	55.2	0.97	10.21	10.21	10.21	0.47	0.84	± 12.0 %
1750	53.4	1.49	8.24	8.24	8.24	0.41	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 %

## Calibration Parameter Determined in Body Tissue Simulating Media

<sup>c</sup> 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.

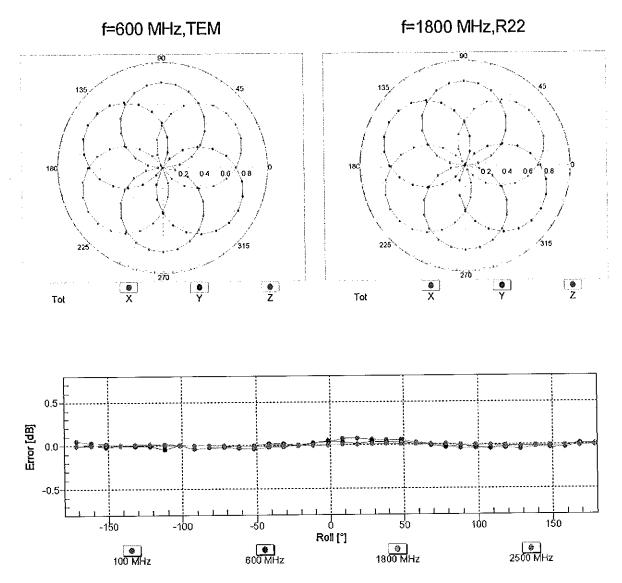
<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. <sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

<sup>G</sup> 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.



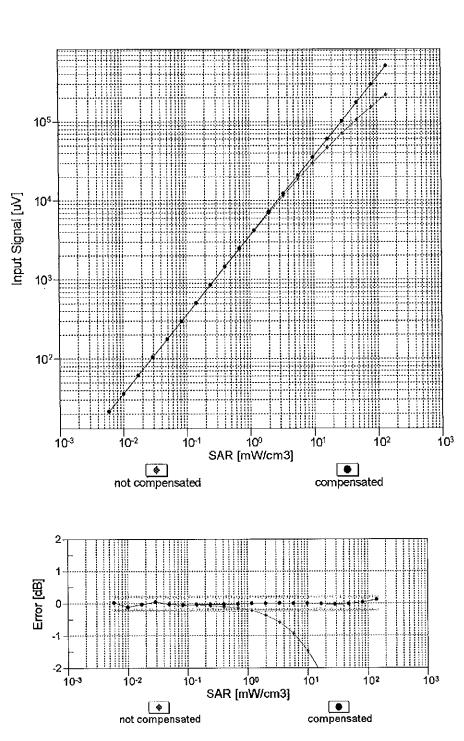
## Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)



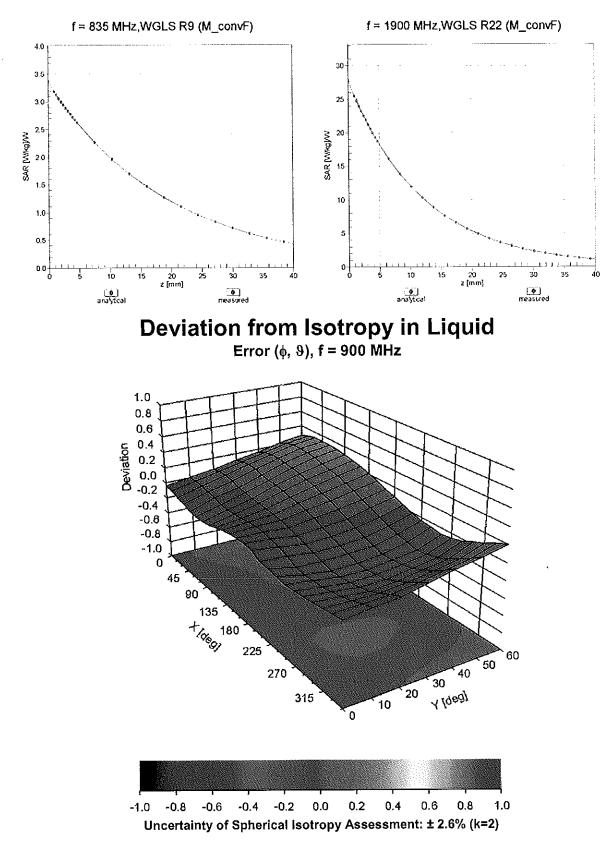
## Receiving Pattern ( $\phi$ ), $\vartheta = 0^{\circ}$

Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)



## Dynamic Range f(SAR<sub>head</sub>) (TEM cell , f<sub>eval</sub>= 1900 MHz)

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



## **Conversion Factor Assessment**

## **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

ŪID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max Unc <sup>E</sup> (k=2)
0	CW	Х	0.00	0.00	1.00	0.00	134.5	± 3.3 %
		Y	0.00	0.00	1.00		130.8	
10010-	SAR Validation (Square, 100ms, 10ms)	Z X	0.00 2.82	0.00 69.38	1.00 11.47	10.00	149.9 20.0	± 9.6 %
CAA	SAR Valuation (Square, 100ms, 10ms)	^	2.02	09.30	11.47	10.00	20.0	19.0 %
		Y	8.85	81.60	16.75		20.0	
		Ζ	1.57	63.55	8.34		20.0	
10011- CAB	UMTS-FDD (WCDMA)	X	1.10	68.34	15.94	0.00	150.0	±9.6 %
		Y	1.03	66.61	14.91		150.0	
10012-	IEEE 802.11b WiFI 2.4 GHz (DSSS, 1	Z X	1.05 1.19	68.21 64.20	15.74 15.65	0.41	150.0 150.0	±9.6 %
CAB	Mbps)			63.83	15.05	0.41	150.0	19.0 %
		Y Z	1.20 1.16	63.83	15.29		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	± 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	± 9.6 %
		Y	100.00	118.99	29.62		50.0	
40000		Z	100.00	108.16	23.75	0.57	50.0	1000
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	114.49	26.98 29.46	9.57	50.0 50.0	± 9.6 %
		Y Z	100.00 100.00	118.59 107.44	29.46		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	117.36	27.41	6.56	60.0	± 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	± 9.6 %
		Y	5.76	81.81	33.21		50.0	
10000		ZX	6.64 12.23	89.92 103.58	37.39 38.33	9.56	50.0 60.0	±9.6 %
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	Y	12.23	103.58	37.54	9.00	60.0	19.0 %
		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	± 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)	×	100.00	126.40	29.97	3.55	100.0	± 9.6 %
		Y	100.00	121.68	28.61		100.0	
40000		ZX	100.00 6.36	119.83 85.88	26.46	7.80	80.0	± 9.6 %
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	^ Y	7.77	88.44	30.18	7.00	80.0	I 9.0 %
		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	± 9.6 %
		Y	100.00	116.86	27.45		70.0	
		Z	100.00	108.46	22.53		70.0	1
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	130.68	30.26	1.88	100.0	± 9.6 %
ļ		Y	100.00	122.76	27.68		100.0	
		Z	100.00	121.33	25.72	<u> </u>	100.0	l

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10032-	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	146.47	35.43	1.17	100.0	± 9.6 %
CAA							100.0	20.0 %
		Y	100.00	130.05	29.64		100.0	
10033-	IEEE 902 46 4 Divelocity (DIVA DODDIV	Z	100.00	142.38	32.95		100.0	
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	
10034-	1555 202 45 4 Pluste - 4 (Pl/4 Popol)	Z	18.79	102.95	27.19		70.0	
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	
10035-		Z	3.22	78.87	18.00		100.0	
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	
10036-	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Z	2.06	74.00	15.93		100.0	
CAA	TEEE 002.15.1 Bidelooin (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	
10037-	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)		38.41	113.99	30.14	L	70.0	
CAA	1222 602.15.1 Bidelooth (8-DPSK, DH3)	X	6.72	90.40	23.29	1.88	100.0	± 9.6 %
		<u>Y</u>	5.52	86.51	22.28		100.0	
10038-		Z	2.77	77.09	17.35		100.0	
	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	
10039-	CDMA2000 (1xRTT, RC1)	Z	2.07	74.35	16.21		100.0	
CAB		X	2.05	73.74	16.48	0.00	150.0	±9.6 %
		Y	1.78	70.97	15.59		150.0	
10042-	IS 54 / IS 426 FOD (TDMA/FDM DU/	Z	1.68	71.87	14.68		150.0	
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	· · · · · · · · · · · · · · · · · · ·
10044-	IS-91/EIA/TIA-553 FDD (FDMA, FM)	Z	100.00	105.38	21.87		50.0	
CAA	13-91/EIA/TIA-555 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	
10048-	DECT (TOD TONA (CDLL OFOUL T	Z	<u>    0</u> .01	94.96	0.54		150.0	
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	······································
10049-	DECT (TOD TOMA/EDM OFOX D	Ζ	34.07	91.91	20.28		25.0	
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	
10056-	LIMTS TOD (TD SCDMA 4 20 Mars)	Z	145.96	109.32	23.74		40.0	
CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	Х	100.00	128.20	35.15	9.03	50.0	± 9.6 %
		Y	100.00	128.83	35.96		50.0	
10058-	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	Z	100.00	122.10	31.77		50.0	
DAC		X	4.71	78.88	26.31	6.55	100.0	±9.6 %
		Y	5.67	81.33	26.92		100.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	Z X	<u>3.54</u> 1.24		23.60 16.42	0.61	100.0 110.0	±9.6 %
		Y	1.27	65.00	10.40			
		Z	1.17	65.23	16.10		110.0	
10060- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	100.00	<u>64.77</u> 144.38	15.84 38.50	1.30	<u>110.0</u> 110.0	± 9.6 %
		Y	100.00	138.88	26.40		410 -	
		Z	13.09		36.40		110.0	
		<u> </u>	10.09	112.30	30.84		110.0	

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10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	X	4.05	88.33	25.97	2.04	110.0	± 9.6 %
	Mbps)	Y	4.75	88.86	25.68		440.0	
		Z	2.16	77.73	25.68		110.0 110.0	
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	
40000		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	
40007		Z	4.65	66.88	17.02	0.04	100.0	100%
10067- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X Y	5.16	67.22	17.75	2.04	100.0	± 9.6 %
			5.27	67.12	17.71		100.0	
10068- CAB	IEEE 802.11a/h WIFI 5 GHz (OFDM, 48 Mbps)	Z X	4.93 5.20	67.13 67.26	17.49 17.98	2.55	100.0 100.0	± 9.6 %
0/10		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	1	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	0.55	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	I	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	<u> </u>
		Z	4.81	66.90	18.39	1	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	<b>_</b>
		Z	4.84	66.97	18.50		90.0	

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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	<u> </u>	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	
40000		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 %
		<u>Y</u>	100.00	118.23	28.46		60.0	
10097-	UMTS-FDD (HSDPA)	Z	100.00	109.70	23.50		60.0	
CAB		Ŷ		68.18	16.03	0.00	150.0	± 9.6 %
		- <u>-</u> Z	<u>1.82</u> 1.87	67.06	15.47	I	150.0	
10098-	UMTS-FDD (HSUPA, Subtest 2)	$\frac{2}{x}$	1.85	<u>68.73</u> 68.15	15.97	0.00	150.0	
CAB		Y	1.78	67.01	16.01	0.00	150.0	± 9.6 %
		z	1.83		15.43		150.0	ļ
10099-	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	12.41	68.68 103.93	15.95	0.50	150.0	
DAC		Y			38.44	9.56	60.0	± 9.6 %
		- <u>Y</u> Z	14.05	103.81	37.62		60.0	
10100-	LTE-FDD (SC-FDMA, 100% RB, 20	$\frac{2}{X}$	6.94 3.20	89.30	32.81	0.00	60.0	
CAD	MHz, QPSK)	Ŷ	3.20	70.68	16.98	0.00	150.0	± 9.6 %
· .				69.96	16.53		150.0	
10101-	LTE-FDD (SC-FDMA, 100% RB, 20	X	3.05 3.27	70.44	16.91		150.0	
CAD	MHz, 16-QAM)			67.67	16.10	0.00	150.0	± 9.6 %
		Y	3.29	67.34	15.87		150.0	
10102- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	Z X	3.15 3.37	67.56 67.61	16.02 16.17	0.00	150.0 150.0	± 9.6 %
		Y	3.39	07 00	45.00	··	<u> </u>	
		Z	3.39	67.30	15.96	•	150.0	
10103- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	6.70	67.54 77.76	16.10 21.71	3.98	150.0 65.0	±9.6 %
		Y	7.25	70.04	01.00			
		Z	5.31	78.01	21.66		65.0	
10104-	LTE-TDD (SC-FDMA, 100% RB, 20	$+\frac{2}{X}$	6.39	74.49	20.24		65.0	
CAD	MHz, 16-QAM)	Y		74.88	21.30	3.98	65.0	± 9.6 %
<u> </u>			7.01	75.63	21.49		65.0	
10105- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	Z X	5.41 5.93	72.53 73.22	20.08 20.87	3.98	65.0 65.0	± 9.6 %
		Υ I	6.37	72.00				
		Z	4.98	73.62 70.66	20.93		65.0	
10108- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.79	69.92	<u>19.52</u> 16.81	0.00	65.0 150.0	± 9.6 %
		Y	2.76	69,17	16.35		150 0	
		Ż	2.63	69.76	16.75		150.0 150.0	
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 %
							1	
		Y	2.64	67.76	16.00		150.0	

10112-	LTE-FDD (SC-FDMA, 100% RB, 10		3.05	67.53	16.06	0.00	150.0	± 9.6 %
CAE	MHz, 64-QAM)	1	0.00	07.00	10.00	0.00	100.0	1 3.0 %
		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	
10110		Z	5.24	67.27	16.51	0.00	150.0	1000
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	
1011-		Z	5.08	67.39	16.50	A A 4	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	l	150.0	ļ
		Z	4.99	67.15	16.47	L	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)	Х	2.05	69.21	16.15	0.00	150.0	± 9.6 %
		Y	2.02	68.14	15.65		150.0	
		Ζ	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	L	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	L
		Z	2.06	66.49	13.57	1	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	1
		Z	0.90	62.72	9.31		150.0	ļ
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	1

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	t	150.0	<u> </u>
		Ż	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 %
		Ý	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	<del> </del>
		Z	5.82	78.02	21.74	· · · ·	65.0	- <u>}</u>
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	<u> </u>
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	
40454		Z	5.31	73.57	20.52		65.0	<u> </u>
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	T
40425		Z	2.17	69.43	16.55	·	150.0	<u> </u>
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	<u> </u>
		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	<u> </u>
		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	·
10100		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	
10150		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	
40400		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	·
10101		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	
10160		<u>Z</u>	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	
10166-		Z	2.94	67.84	16.05		150.0	
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	
10167-		Z	3.14	68.43	18.52		150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	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	_ 10.00 1		1 100.0	

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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 %
UAL		Y	5.19	74.57	20.82		150.0	
		z	4.03	73.14	20.02		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 %
0		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	<u> </u>
		Z	2.83	69.59	18.31		150.0	1
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	<u> </u>
		Z	2.62	68.01	17.15	<u> </u>	150.0	1
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	ļ
		Z	2.50	66.64	17.62	1	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	
<u> </u>		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 %
<u> </u>		Y	3.78	71.45	18.67		150.0	
<u> </u>	· · · · · · · · · · · · · · · · · · ·	Ż	2.62	68.00	17.14		150.0	

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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	<u> </u>	150.0	
		Ż	2.51	66.67	17.63	· · · · ·		
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	4.22	75.53	21.45	3.01	<u> </u>	± 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	<u> </u>
10/0-		Z	2.63	68.05	17.17		150.0	1
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	
40400		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	
10400		<u>Z</u>	3.15	71.69	19.93		150.0	1
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	
10193-		Z	2.67	68.37	17.41		150.0	
CAB	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.54	66.68	16.24	0.00	150.0	± 9.6 %
		<u>Y</u>	4.59	66.47	16.13		150.0	
10194-		Z	4.40	66.85	16.19		150.0	
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	
40405		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	
10196-		Z	4.58	67.11	16.34		150.0	
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	
40407		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	
10198-		Z	4.56	67.10	16.33		150.0	
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	
10219-		Z	4.58	67.11	16.34		150.0	
CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	Х	4.49	66.76	16.22	0.00	150.0	± 9.6 %
		Y	4.55	66.56	16.12		150.0	_
10220-		Z	4.34	66.89	16.16		150.0	
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	
10221- CAB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-	Z X	4.55 4.75	67.06 66.96	16.32 16.37	0.00	150.0 150.0	± 9.6 %
	QAM)	_						/0
		Y	4.82	66.78	16.27		150.0	
10000		_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				

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	
		Ż	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+)	Х	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 %
		Υ	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)	х	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	1	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 %
<u> </u>		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 %
	10 30 MT/	ΤΥ	33.52	111.82	33.15		65.0	
		Ż	6.58	87.20	25.47	1	65.0	1

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		05.0	<u> </u>
		Ż	6.49	85.89	24.34	<u> </u>	<u>65.0</u> 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	<u> </u>	65.0	
10044		Z	4.34	82.09	25.63		65.0	<u> </u>
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	1	65.0	- <u> </u>
10242-	TE TOD (SC EDMA FOX DD ( 1)	Z	6.49	79.39	24.77		65.0	
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	
10243-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	Z	5.72	76.85	23.63		65.0	
CAA	QPSK)	X	5.95	76.72	24.82	6.98	65.0	±9.6 %
		Y	6.41	76.67	24.65		65.0	
10244-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz,	Z	4.75	73.34	22.98		65.0	
CAB	16-QAM)	X	6.67	78.45	19.67	3.98	65.0	± 9.6 %
		Y -	8.20	80.91	21.14		65.0	
10245-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz,	Z	3.50	69.23	14.35		65.0	
CAB	64-QAM)	Y Y	6.39	77.48	19.23	3.98	65.0	± 9.6 %
		Z	7.92	80.07	20.76		65.0	
10246-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz,	X	8.15	68.65 85.97	14.03		65.0	
CAB	QPSK)	Y			22.95	3.98	65.0	± 9.6 %
		Z	9.24	86.80	23.49		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	<u>4.03</u> 5.50	75.23 76.42	17.77 20.00	3.98	<u>65.0</u> 65.0	± 9.6 %
		Y	6.26	77.49	20.66			
		Ż	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 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	
0000		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	
0251-	TE-TOD (SC EDMA CON DD LOT	Z	4.95	74.96	20.57		65.0	
CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	×	5.85	75.76	21.03	3.98	65.0	± 9.6 %
		Y	6.49	76.44	21.31		65.0	
0252-	LTE-TDD (SC-FDMA, 50% RB, 10 MHz,	Z	4.69	72.73	19.17		65.0	
CAD	QPSK)	X	8.41	86.24	25.10	3.98	65.0	± 9.6 %
		Y	9.13	86.11	24.91		65.0	
0253-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	Z	5.95	81.04	22.79		65.0	
CAD	16-QAM)	X	5.81	74.45	20.83	3.98	65.0	± 9.6 %
		Y	6.39	75.11	21.05		65.0	
0254-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	<u>z</u> x	4.88	72.13	19.42		65.0	
CAD	64-QAM)		6.16	75.32	21.51	3.98	65.0	±9.6%
		Ŷ	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	1	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	0.00	65.0	100%
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	1
10262-	LTE-TDD (SC-FDMA, 100% RB, 5 MHz,	Z X	5.46 6.19	80.05 78.15	21.57 22.39	3.98	65.0 65.0	± 9.6 %
CAD	16-QAM)	Y	0.00	78.95	22.69		65.0	
		Z	6.92 4.94	74.88	20.51		65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	<u>4.54</u> 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	-
<u></u>		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	ļ
		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	<u> </u>	65.0	ļ
		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	1	65.0	1000
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	<u> </u>	65.0	
		Z	5.58	72.49	20.14	1	65.0	1000
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	1	65.0	
· · · · ·		Z	5.59	72.11	20.01		65.0	1 1 0 0 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	<u> </u>
		Z	2.54	67.07	15.23	<u> </u>	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	<u>                                      </u>	150.0	
40077		Z	1.61	68.63	15.84	1	150.0	<u> </u>
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	
10278-	PHS (ODSK DW) 004041 D II ((0.7)	<u>Z</u>	1.34	59.32	4.61		50.0	
<u>CAA</u>	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	9.23	83.71	19.86	9.03	50.0	± 9.6 %
·		<u>Y</u>	16.13	92.59	23.80		50.0	
10279-	PHS (QPSK, BW 884MHz, Rolloff 0.38)	Z	2.80	66.68	11.50		50.0	
CAA		X	9.55	84.14	20.09	9.03	50.0	± 9.6 %
·		Y	16.22	92.62	23.87		50.0	· · · · · · · · · · · · · · · · · · ·
10290-	CDMA2000, RC1, SO55, Full Rate	Z	2.90	67.01	11.74		50.0	
AAB		X	1.55	69.78	14.51	0.00	150.0	± 9.6 %
		4	1.48	68.23	14.09	L	150.0	
10291-	CDMA2000, RC3, SO55, Full Rate	Z	1.19	67.52	12.47		150.0	
AAB		X	0.89	66.83	13.08	0.00	150.0	± 9.6 %
		Y	0.85	65.35	12.57		150.0	
10292-	CDMA2000, RC3, SO32, Full Rate	Z	0.74	65.55	11.46		150.0	
AAB		X	1.27	72.61	16.13	0.00	150.0	±9.6 %
		Y	1.03	68.80	14.67		150.0	
10293-	CDMA2000, RC3, SO3, Full Rate	Z	1.20	72.32	14.93		150.0	
AAB		X	2.34	81.60	20.09	0.00	150.0	± 9.6 %
		Y	1.43	73.64	17.27		150.0	
10295-	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.		3.93	87.90	20.92		150.0	
AAB		X	16.32	98.49	29.02	9.03	50.0	± 9.6 %
		Y	11.98	92.39	27.58		50.0	
10297-	LTE-FDD (SC-FDMA, 50% RB, 20 MHz,	Z	18.77	96.90	26.52		50.0	
AAC	QPSK)	X	2.80	70.02	16.88	0.00	150.0	±9.6%
		Y	2.77	69.27			150.0	
10298-	LTE-FDD (SC-FDMA, 50% RB, 3 MHz,	Z	2.65	69.87	16.82		150.0	
AAC	QPSK)	X Y	1.62	68.28	14.44	0.00	150.0	±9.6 %
		Z	1.62	67.40	14.26	·	150.0	
0299- \AC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	2.59	66.56 69.34	<u>12.71</u> 14.00	0.00	<u>   150.0    </u> 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	150.0 150.0	± 9.6 %
		Y	2.24	65.95	12.27		150.0	
0001		Z	1.26	61.60	8.20		150.0	
0301- \AA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.85	66.06	17.86	4.17	50.0	±9.6 %
- <u> </u>		Y	4.97	65.84	17.76		50.0	
0000		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 %
					4			
		Y Z	5.38	66.17	18.31		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	
		Ż	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)	Х	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 %
• • •		Υ	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	L	150.0	ļ
10400- AAC	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	Х	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)	Х	5.41	67.26	16.54	0.00	150.0	± 9.6 %
		Y	5.45	67.06	16.42		150.0	
•		Z					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	67.40	40.45			L
		Z		67.43	16.45	·	150.0	<u> </u>
10403-	CDMA2000 (1xEV-DO, Rev. 0)	X	5.51	67.47	16.48		150.0	
AAB			1.55	69.78	14.51	0.00	115.0	± 9.6 %
		Y	1.48	68.23	14.09		115.0	
40404		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	]
40400		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 %
		Ϋ́	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	<u> </u>
		Z	1.03	63.39	14.88		150.0	1
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 %
		ΤΥ	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 preambule)	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 preambule)	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	<u> </u>	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	
		Ż	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	16.32			
10425- AAA	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.35	67.37	16.60	0.00	<u>150.0</u> 150.0	± 9.6 %
		TY 1	5.42	67.27	16.52		150.0	······
		z	5.19	67.35			150.0	· · · · · · · · · · · · · · · · · · ·
10426- AAA	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.36	67.42	16.55 16.62	0.00	150.0 150.0	± 9.6 %
		Y	5.42	67.07	10.00		456.5	
		Z		67.27	16.52		150.0	
	<u> </u>		5.21	67.42	16.58		150.0	

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10427- AAA	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	Х	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	
		Ζ	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%)	Х	3.51	67.35	15.60	0.00	150.0	±9.6 %
		Y	3.58	66.99	15.55	1	150.0	
		Z	3.28	67.36	15.16		150.0	<u> </u>
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	4.06	67.09	16.17	0.00	150.0	± 9.6 %
		Y	4.12	66.80	16.05		150.0	<b></b>
		Z	3.89	67.25	16.05		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 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	<u> </u>	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	<u> </u>
		Z	6.11	67.90	16.72	<u> </u>	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	1	150.0	<u> </u>
		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	<u> </u>
		Z	2.82	66.01	13.39		150.0	<u> </u>
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	

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10460- AAA	UMTS-FDD (WCDMA, AMR)	X	0.96	69.26	16.86	0.00	150.0	± 9.6 %
-		Y Z	0.88	67.02	15.53		150.0	
10461-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,		100.00	69.35	16.76		150.0	
AAA	QPSK, UL Subframe=2,3,4,7,8,9)			131.25	34.47	3.29	80.0	± 9.6 %
		-  <u>Y</u>	100.00	128.59	33.89		80.0	
10462-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	Z	3.16	81.29	20.28	l	80.0	
AAA	16-QAM, UL Subframe=2,3,4,7,8,9)	Y	18.15	90.54	19.55	3.23	80.0	± 9.6 %
		Z	100.00	110.06	25.23		80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.71 2.32	60.00 68.92	7.72	3.23	80.0 80.0	± 9.6 %
		Ý	12.78	85.50	18.46	<u>                                      </u>	80.0	1
		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	
10465-		Z	2.43	77.27	18.20		80.0	<u> </u>
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	
10466-		<u>Z</u>	0.71	60.00	7.65		80.0	
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	
10467-	LTE-TDD (SC-FDMA, 1 RB, 5 MHz,	Z	0.72	60.00	7.01		80.0	
AAC	QPSK, UL Subframe=2,3,4,7,8,9)		100.00	128.82	33.16	3.23	80.0	± 9.6 %
		Y	100.00	126.57	32.78		80.0	
10468-	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-	Z	2.60	78.29	18.60		80.0	
AAC	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	
10469-	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-	Z	0.70	60.00	7.67		80.0	
AAC	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	
10470-	LTE-TDD (SC-FDMA, 1 RB, 10 MHz,	Z	0.72	60.00	7.01		80.0	
AAC	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	
10471-	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-	4	2.61	78.33	18.61		80.0	
AAC	QAM, UL Subframe=2,3,4,7,8,9)	X	9.03	83.37	17.54	3.23	80.0	± 9.6 %
		Y Z	75.72	106.57	24.32		80.0	
10472- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	0.70 1.85	60.00 66.72	7.66 11.34	3.23	80.0 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	
0474-		Ζ	2.60	78.28	18.59		80.0	
AC	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	
0475-	TE-TOD (SC EDMA 4 DD 45 MM	Z	0.70	60.00	7.66		80.0	
VAC	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	
	1 e	Z	0.72	60.00	6.99			

10477- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	х	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)	х	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	10.0.01
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	A 44	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 %
		X	6.34	78.50	19.36		80.0	
10484-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz,	Z X	1.80 4.47	63.38 74.01	11.04 17.11	2.23	80.0 80.0	± 9.6 %
AAA	64-QAM, UL Subframe=2,3,4,7,8,9)	V	E 70	76.98	18.82	····	80.0	
		Y	5.79		10.02		80.0	
10485-	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Z X	1.76 4.05	62.89 77.49	20.34	2.23	80.0	± 9.6 %
AAC		Y	4.20	76.76	20.09		80.0	1
		Z	2.71	72.24	17.50	1	80.0	1
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)	×	4.00	72.50	19.16	2.23	80.0	± 9.6 %
		Y	4.28	72.62	19.08	l	80.0	
		Z	3.25	70.05	17.90		80.0	1
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	
1		Z	3.37	67.61	16.86		80.0	1

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	<u> </u>		
		z	3.43	67.50	16.80	<u> </u>	80.0	
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	4.43	74.41	19.78	2.23	80.0 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 %
		ΤY	4.16	69.65	18.06	<u> </u>	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	1
40407		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	
10400		Z	1.19	62.14	10.12		80.0	1
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 %
<u> </u>		Y	2.27	65.45	12.56		80.0	<u> </u>
10100		Z	1.15	60.00	7.68	·	80.0	<u> </u>
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 %
·		Ϋ́	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	
40504		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 %
		<u>Y</u>	3.78	70.97	17.70		80.0	
40500		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	
10503-		Z	2.82	68.03	15.41		80.0	
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	
10504-		Z	2.95	71.29	18.21		80.0	
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	
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Z X	3.01 3.64	68.26 69.79	<u>16.69</u> 17.85	2.23	80.0 80.0	± 9.6 %
		Y	3.88	69.88	17.00			
		Z	3.09	68.12	17.89		80.0	
10506- \AC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.39	74.26	16.62 19.71	2.23	80.0 80.0	±9.6 %
		Y	4.71	74.37	19.61		80.0	
0507		Z	3.46	71.26	18.30		80.0	
VAC	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 Z	4.14	69.59	18.03		80.0	

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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 %
		Υ	4.21	69.23	17.90		80.0	
		Ζ	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-FDMÄ, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	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)	Х	4.95	74.43	19.59	2.23	80.0	± 9.6 %
		Υ	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)	Х	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	<b> </b>
		Z	0.67	72.15	18.45	0.00	150.0	100%
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	
10518- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	Z X	0.84 4.53	65.62 66.80	15.72 16.29	0.00	150.0	± 9.6 %
-7001		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	1	150.0	ļ
		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	
10521-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24	Z X	4.40 4.49	67.05 66.97	<u>16.26</u> 16.31	0.00	150.0 150.0	± 9.6 %
AAA	Mbps, 99pc duty cycle)	Y	4.56	66.79	16.20		150.0	┨ ────
		Z	4.33	67.02	16.25	1	150.0	
10522-	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 %
1 8 8 8				1		1		
AAA	Mibps, sope daty cycle)	Y	4.62	66.86	16.28	-	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	<u> </u>	150.0	
40504		Z	4.31	67.14	16.26	<u> </u>	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	+
40505		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	· · · · · · · · · · · · · · · · · · ·
10526-		Z	4.36	66.21	15.95		150.0	
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	
10527-		Z	4.49	66.49	16.07		150.0	<u> </u>
AAA 99pc duty cycle)	JEEE 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	
10529		Z	4.42	66.47	16.01		150.0	T — —
10528- IEEE 802.11ac V AAA 99pc duty cycle)	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	
10520		Z	4.43	66.48	16.04		150.0	1
10529- IEEE 802.11ac AAA 99pc duty cycle	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	
10531-		Z	4.43	66.48	16.04		150.0	
4AA	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	<u> </u>
10520		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	
10533-		Z	4.28	66.37	15.96		150.0	
AA	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	· · · · · · · · · · · · · · · · · · ·
0000		Z	4.44	66.56	16.05		150.0	
10534- \AA	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	·
0535-		Z	4.99	66.46	16.09		150.0	
10535- NAA	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	
0536-		Z	5.03	66.59	16.15		150.0	
10536- IAA	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	
0537-		Z	_4.92	66.60	16.13		150.0	
AA	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	
0538-		Ζ	4.98	66.58	16.13		150.0	
AA	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.21	66.56	16.19	0.00	150.0	± 9.6 %
	<u> </u>	Y	5.28	66.45	16.11		150.0	
0540-		Z	5.05	66.54	16.15		150.0	
AA	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					

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10541-	IEEE 802.11ac WiFi (40MHz, MCS7,	X	5.12	66.46	16.14	0.00	150.0	± 9.6 %
AAA	99pc duty cycle)		- 10		10.05			
		Y	5.18	66.32	16.05		150.0	
10510		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	
	1	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	
		Ż	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 %
AAA		Y	5.59	66.67	16.11		150.0	
		Z	5.42	66.83	16.21		150.0	<u> </u>
40554		X	5.54	66.82	16.18	0.00	150.0	± 9.6 %
10551- AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)				<u> </u>	0,00	150.0	2 0.0 74
		Y	5.59	66.72	16.10			l
		Z	5.36	66.63	16.07	0.00	150.0	1000
10552- AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	Х	5.46	66.64	16.10	0.00	150.0	± 9.6 %
		Y	5.51	66.51	16.00		150.0	<u> </u>
		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	ļ	150.0	<u> </u>
		Z	5.39	66.61	16.09	ļ	150.0	<u>                                      </u>
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	<u> </u>
		Z	5.75	66.87	16.15	l	150.0	<u> </u>
10555- AAB	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	Х	5.98	67.22	16.33	0.00	150.0	± 9.6 %
		Y	6.03	67.12	16.25		150.0	L
[		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	1	150.0	
1		Z	5.84	67.08	16.25	1	150.0	<u> </u>

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10558-	IEEE 802.11ac WiFi (160MHz, MCS4,	X	6.01	67.90	16 14	0.00		
AAB	99pc duty cycle)		0.01	67.32	16.41	0.00	150.0	± 9.6 %
		Y	6.07	67.25	16.34	- [	150.0	
40500		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 %
		<u>Y</u>	6.06	67.10	16.31		150.0	1
10561-		Z	5.87	67.07	16.30	T	150.0	+
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	
10562-	IEEE 802.11ac WiFi (160MHz, MCS8,	Z	5.80	67.05	16.32		150.0	
AAB	99pc duty cycle)		6.04	67.49	16.57	0.00	150.0	± 9.6 %
			6.12	67.48	16.53	L	150.0	
10563-	IEEE 802.11ac WiFi (160MHz, MCS9,	$\frac{2}{x}$	5.85 6.18	67.23	16.41	L	150.0	
	99pc duty cycle)			67.55	16.56	0.00	150.0	± 9.6 %
		Y Z	6.43	68.00	16.75		150.0	
10564-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	$\frac{2}{X}$	5.95 4.86	67.17	16.35		150.0	
AAA	OFDM, 9 Mbps, 99pc duty cycle)	Y	4.86	66.88	16.45	0.46	150.0	± 9.6 %
·····		Z	4.92	66.69	16.36	<u> </u>	150.0	
10565-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	5.08	66.96 67.30	16.39 16.76		150.0	
<u>AAA</u>	OFDM, 12 Mbps, 99pc duty cycle)	Y	5.16	67.15		0.46	150.0	± 9.6 %
		z	4.90	67.15	16.67	<u> </u>	150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	X	4.91	67.15	<u>16.69</u> 16.58	0.46	150.0 150.0	± 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 %
		Ý	5.01	67.38	16.84		150.0	
10568-		Z	4.77	67.57	16.87		150.0	
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	· · .
10560			4.63	66.92	16.25		150.0	
10569- \AA	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	
0570-		Z	4.75	67.78	17.00		150.0	
VAA	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	
0571-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1	Z	4.76	67.58	16.89		150.0	
	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	
0572-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	Z	1.13	64.22	15.49		130.0	
	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	
0573-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5	ZX	1.14	64.74	15.83		130.0	
<u>AA</u>	Mbps, 90pc duty cycle)		2.77	92.16	26.12	0.46	130.0	± 9.6 %
		Y	1.86	83.27	22.47		130.0	
0574-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	ZX	1.57	83.20	23.00		130.0	
<u>AA</u>	Mbps, 90pc duty cycle)		1.31	71.26	19.39	0.46	130.0	± 9.6 %
		Y	1.31		18.63		130.0	
		Z	1.20	70.00	18.67	1	130.0	· _ · _

10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	x	4.64	66.67	16.51	0.46	130.0	± 9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)							
		Y	4.71	66.50	16.43		130.0	
10570	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.47	66.69	16.39	0.40	130.0	1000
10576- AAA	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	
40577		Z	4.50	66.89	16.47	0.40	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	
10578-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z X	4.67 4.76	67.12 67.25	16.61 16.83	0.46	130.0 130.0	± 9.6 %
AAA	OFDM, 18 Mbps, 90pc duty cycle)	Y	4.84	67.12	16.76		130.0	
		Z	4.64	67.12	16.70		130.0	
10579-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.52	66.57	16.12	0.46	130.0	± 9.6 %
10579- AAA	OFDM, 24 Mbps, 90pc duty cycle)					0.40		1 3.0 70
		Y	4.61	66.44	16.10		130.0	
40500		Z	4.33	66.48	15.99	0.46	130.0	+000
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	
40704		Z	4.36	66.53	16.01	0.40	130.0	1000
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)	Х	4.86	67.11	16.74	0.46	130.0	± 9.6 %
<u></u>		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 %
1		Y	4.61	66.44	16.10		130.0	1
		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 %
~~~\	mopo, copo daty cycle/	Y	4.56	66.21	15.89	1	130.0	1
		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	<u> </u>
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	1
		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	1
		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	
40505		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	
40505		Z	4.69	67.10	16.56		130.0	1
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	<u> </u>
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	ł · · · · · · · · · · · · · · · · · · ·
		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	
10000		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	
40001		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	
	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	

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 %
		ΙΥ	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	1	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	1	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)	×	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	1

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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	<u>+</u>	130.0	+
		Z	5.05	66.22	16.17	<u> </u>	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	1
(000		Z	5.25	66.47	16.36		130.0	1
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	
10626-		Z	5.34	66.63	16.50		130.0	
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	
10627-	IEEE 802.11ac WiFi (80MHz, MCS1,	Z	5.45	66.47	16.28		130.0	
AAA	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	
10628-		Z	5.67	67.05	16.54		130.0	
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	
10629-		Z	5.44	66.46	16.18		130.0	
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	
10630-	IEEE 802.11ac WiFi (80MHz, MCS4,	Z	5.54	66.62	16.26		130.0	
AAA	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	
10631-		Z	5.78	67.54	16.72		130.0	
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	
10632-		Z	5.75	67.56	16.92		130.0	
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	
10000		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 %
		Ý	5.74	66.74	16.37		130.0	
10001		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	
10625		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	
10636-		Z	5.36	66.00	15.77		130.0	
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	
10637-		Z	5.88	66.82	16.36		130.0	
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	
0620		<u>Z</u>	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		400.0	
		z		01.20 1	10.54		130.0	

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10639-	IEEE 802.11ac WiFi (160MHz, MCS3,	X	6.13	67.21	16.61	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)							
		Y	6.20	67.17	16.57		130.0	
10010		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	1
		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 %
<u> </u>		Y	4.32	66.18	17.01		80.0	
		Z	3.93	65.42	16.50		80.0	

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

#### Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland Hac-MRA



SSchweizerischer KallbrierdienstCService suisse d'étalonnageSServizio svizzero di taraturaSwiss Calibration Service

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PC Test Client

Certificate No: EX3-7406\_Apr17

CALIBRATION	CERTIFICATE		
Object	EX3DV4 - SN:7406	<b>)</b>	
Calibration procedure(s)		CAL-12.v9, QA CAL-23.v5, QA ure for dosimetric E-field probes	CAL-25.V6 BNN 5-3-2017
	· · · · · · · · · · · · · · · · · · ·		5-3-2017
Calibration date:	April 18, 2017		
		al standards, which realize the physical units obability are given on the following pages and a	
The measurements and the unc	enainties with confidence pro-	ability are given on the following pages and c	ne part of the continuate.
All calibrations have been condu	ucted in the closed laboratory f	facility: environment temperature (22 ± 3)°C a	nd humidity < 70%.
Calibration Equipment used (M8	TE critical for calibration)		
Primary Standards		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 Attenualor	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		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 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: Oct-17
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-16)	
	Name	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technician	Milles -
Approved by:	Katja Pokovic	Technical Manager	10M

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

#### **Calibration Laboratory of** Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



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Accreditation No.: SCS 0108

- Servizio svizzero di taratura S
- Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

#### Glossarv:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,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 $\phi$	φ rotation around probe axis
Polarization 9	$\vartheta$ 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
	the second s

information used in DASY system to align probe sensor X to the robot coordinate system Connector Angle

#### Calibration is Performed According to the Following Standards:

- a) 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
  b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close
- proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- IEC 62209-2. "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices c) used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Methods Applied and Interpretation of Parameters:

- NORMx.v.z: Assessed for E-field polarization  $\vartheta = 0$  (f  $\leq 900$  MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx, y, z are only intermediate values, i.e., the uncertainties of NORMx, y, z does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- $NORM(f)x, y, z = NORMx, y, z * frequency_response$  (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.
- DCPx,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
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,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 < 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 NORMx, 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 NORMx (no uncertainty required).

# Probe EX3DV4

## SN:7406

Manufactured: November 24, 2015 Calibrated: April 18, 2017 April 18, 2017

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

#### Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.47	0.42	0.45	± 10.1 %
DCP (mV) <sup>B</sup>	99.5	98.3	95.1	

#### **Modulation Calibration Parameters**

UID	Communication System Name		Α	В	C	D	VR	Unc <sup>E</sup>
			dB	dBõV		dB	mV	(k=2)
0	CW	X	0.0	0.0	1.0	0.00	138.9	±2.5 %
		Y	0.0	0.0	1.0		129.6	
		Z	0.0	0.0	1.0		128.2	

Note: For details on UID parameters see Appendix.

#### Sensor Model Parameters

	C1	C2	α	T1	T2	Т3	T4	T5	T6
	fF	fF	V <sup>−1</sup>	ms.V⁻²	ms.V⁻¹	ms	V <sup>-2</sup>	V-1	
Х	48.83	366.9	<b>3</b> 6.13	15.06	1.101	4.968	0.251	0.437	1.003
Y	19.57	145.7	35.6	3.888	0.704	4.934	0	0.021	1.004
Z	45.42	343.9	36.58	10.69	0.846	4.98	0	0.36	1.004

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%.

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

<sup>B</sup> Numerical linearization parameter: uncertainty not required.

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

f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
600	42.7	0.88	10.42	10.42	10.42	0.10	1.20	± 13.3 %
750	41.9	0.89	10.26	10.26	10.26	0.52	0.80	± 12.0 %
835	41.5	0.90	9.97	9.97	9.97	0.53	0.81	± 12.0_%
1750	40.1	1.37	8.88	8.88	8.88	0.42	0.80	± 12.0 %
1900	40.0	1.40	8.40	8.40	8.40	0.26	0.87	± 12.0 %
2300	39.5	1.67	8.04	8.04	8.04	0.25	0.80	± 12.0 %
2450	39.2	1.80	7.68	7.68	7.68	0.38	0.80	± 12.0 %
2600	39.0	1.96	7.44	7.44	7.44	0.40	0.83	± 12.0 %

#### Calibration Parameter Determined in Head Tissue Simulating Media

<sup>c</sup> 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. <sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) 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 ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<sup>G</sup> 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.

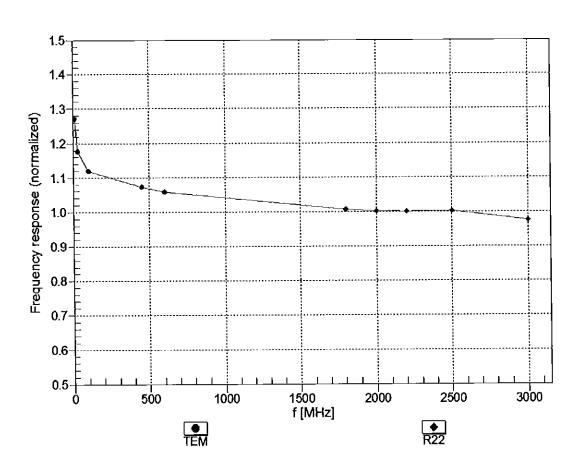
f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
600	56.1	0.95	10.82	10.82	10.82	0.10	1.20	± 13.3 %
750	55.5	0.96	9,90	9.90	9.90	0.51	0.83	± 12.0 %
835	55.2	0.97	9.77	9.77	9.77	0.46	0.80	± 12.0 %
1750	53.4	1.49	8.08	8.08	8.08	0.41	0.85	± 12.0 %
1900	53.3	1.52	7.81	7.81	7.81	0.44	0.80	± 12.0 %
2300	52.9	1.81	7.65	7.65	7.65	0.38	0.84	± 12.0 %
2450	52.7	1.95	7.60	7.60	7.60	0.33	0.89	± 12.0 %
2600	52.5	2.16	7.31	7.31	7.31	0.31	0.94	± 12.0 %

#### **Calibration Parameter Determined in Body Tissue Simulating Media**

<sup>c</sup> 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. <sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to

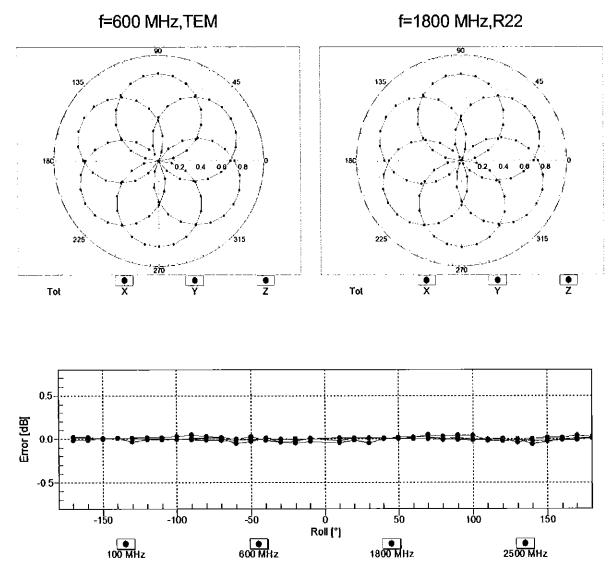
<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. <sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

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



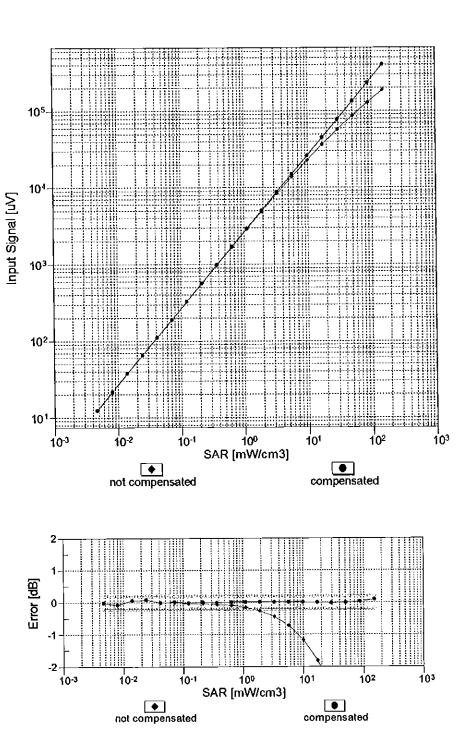
### Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)



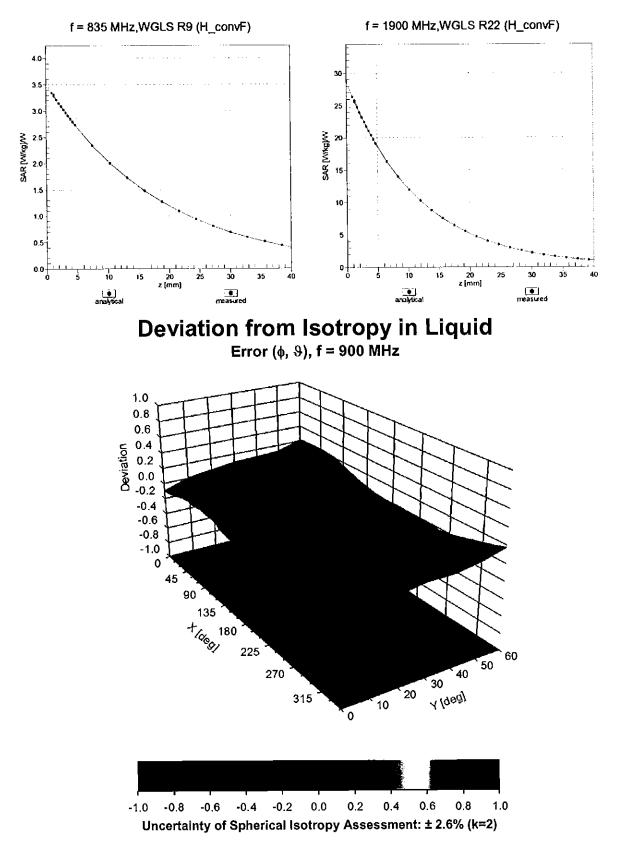
## Receiving Pattern ( $\phi$ ), $\vartheta = 0^{\circ}$

Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)



Dynamic Range f(SAR<sub>head</sub>) (TEM cell , f<sub>eval</sub>= 1900 MHz)

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



## **Conversion Factor Assessment**

#### **Other Probe Parameters**

Sensor Arrangement	Triangular				
Connector Angle (°)	0				
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				

#### April 18, 2017

#### EX3DV4-SN:7406

#### **Appendix: Modulation Calibration Parameters**

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max Unc <sup>E</sup> (k=2)
0	CW	X	0.00	0.00	1.00	0.00	138.9	± 2.5 %
		Y	0.00	0.00	1.00		129.6	
		Z	0.00	0.00	1.00		128.2	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	2.73	66.22	10.89	10.00	20.0	± 9.6 %
		Y	2.50	65.91	10.39		20.0	
		Z	2.53	65.90	10.54		20.0	
10011- CAB	UMTS-FDD (WCDMA)	х	1.16	69.53	16.71	0.00	150.0	± 9.6 %
		Y	1.55	76.79	19.47		150.0	
10010		Z	1.09	68.24	15.96	0.44	150.0	
10012- CAB	IEEE 802.11b WIFi 2.4 GHz (DSSS, 1 Mbps)	X	1.21	64.38	15.70	0.41	150.0	±9.6 %
		Y	1.20	65.37	16.13		150.0	
40040		Z	1.18	63.82	15.33 16.98	1.46	150.0 150.0	± 9.6 %
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	4.87	66.56		1.40		±9.0 %
		Y	4.34	67.27	16.96		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	Z X	4,83 9.99	66.50 82.36	16.95 18.50	9.39	150.0 50.0	± 9.6 %
		Y	13.63	85.86	18.88		50.0	
		z	18.22	90.00	20.60		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	8.49	80.16	17.78	9.57	50.0	±9.6 %
		Y	7.32	78.16	16.31		50.0	
		Ζ	12.47	85.19	19.17		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	Х	18.19	89.55	19.31	6.56	60.0	±9.6 %
		Y	100.00	107.67	23.01		60.0	
		Z	100.00	108.36	23.76		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	Х	5.54	75.78	27.74	12.57	50.0	± 9.6 %
		Y	8.76	92.32	36.08		50.0	
		Z	4.44	70.37	25.26	0.50	50.0 60.0	1069/
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	9.90	90.96	31.21	9.56	60.0	± 9.6 %
		Y Z	5.70 7.85	81.99 86.95	30.11		60.0	
10027-	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	106.69	22.59	4.80	80.0	± 9.6 %
DAC		Y	100.00	110.45	23.34	<u> </u>	80.0	<u> </u>
	· · · · · · · · · · · · · · · ·	z	100.00	108.23	22.93		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	107.01	22.11	3.55	100.0	± 9.6 %
		Y	100.00	117.41	25.54	1	100.0	
		Z	100.00	109.42	22.79		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	6.41	81.80	26.70	7.80	80.0	± 9.6 %
		Y	3.86	73.74	24.21		80.0	
10030-	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Z X	5.17 13.75	78.18 86.21	25.56 17.68	5.30	80.0	± 9.6 %
CAA			0.11	00.70	45.00	—	70.0	<u> </u>
		Y	8.41	82.76	15.88		70.0	
10031-	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Z X	100.00 100.00	106.60 106.42	22.49 20.68	1.88	100.0	± 9.6 %
		Y	100.00	120.98	25.51	1	100.0	
		z	100.00	108.89	21.35	+	100.0	1

10032-	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	113.18	22.62	1.17	100.0	± 9.6 %
		<u> </u>	ļ					
<u> </u>		Y	100.00	160.14	39.75		100.0	
10033-	IEEE 802 15 1 Plustoath (Pl/4 DODCK	Z	100.00	117.70	24.05	l	100.0	
	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	6.02	81.27	20.17	5.30	70.0	± 9.6 %
		Y	2.18	67.67	12.00		70.0	
10034-		Z	5.24	80.63	20.08		70.0	
CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	2.82	75.11	17.10	1.88	100.0	± 9.6 %
	+	Y	0.75	61.82	7.32		100.0	
10035-	IEEE 802.15.1 Bluetooth (PI/4-DQPSK,	Z	2.29	73.13	16.28		100.0	
CAA	DH5)	X	2.17	73.18	16.32	1.17	100.0	± 9.6 %
		Y	0.59	61.24	6.75		100.0	
10036-	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Z	1.79	71.19	15.39		100.0	
CAA		X	7.12	83.90	21.15	5.30	70.0	± 9.6 %
	<u> </u>	Y	2.26	68.25	12.32		70.0	
10037-		Z	6.24	83.43	21.13		70.0	
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	2.66	74.41	16.79	1.88	100.0	± 9.6 %
		<u>Y</u>	0.71	61.41	7.10		100.0	
10038-	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Z	2.15	72.41	15.96	l	100.0	
CAA		X	2.20	73.62	16.61	1.17	100.0	± 9.6 %
		<u>Y</u>	0.60	61.36	6.93		100.0	
10039-		Z	1.80	71.51	15.64		100.0	
CAB	CDMA2000 (1xRTT, RC1)	X	2.76	78.09	18.48	0.00	150.0	± 9.6 %
		Y	0.37	60.00	5.64		150.0	
40040		Ζ	2.22	74.97	16.93		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	7.43	78.80	16.12	7.78	50.0	± 9.6 %
		Y	8.26	80.71	16.15		50.0	
100(1		Z	12.01	84.59	17.75		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	100.49	0.10	0.00	150.0	± 9.6 %
		Y	0.04	60.00	50.13		150.0	
		Z	0.00	96.59	0.05		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	6.27	73.35	16.78	13.80	25.0	± 9.6 %
		Y	5.47	69.78	14.42		25.0	
40040		Z	7.09	74.59	16.89		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	6.62	76.07	16.59	10.79	40.0	± 9.6 %
		Y	5.50	73.13	14.63		40.0	
40050		Z	7.47	77.74	16.92		40.0	<u> </u>
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	8.73	81.97	20.70	9.03	50.0	± 9.6 %
		Y	5.30	74.02	15.71		50.0	<b>—</b> ——–
40050		Z	9.70	84.35	21.49		50.0	
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	4.93	77.02	24.10	6.55	100.0	±9.6%
		Y	3.18	70.36	21.96		100.0	
40050		Z	4.10	73.99	23.08		100.0	·
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	х	1.26	65.49	16.19	0.61	110.0	± 9.6 %
		Y	1.20	65.95	16.36		110.0	<u> </u>
40000		Z	1.20	64.67	15.74		110.0	
10060- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	13.21	104.87	27.26	1.30	110.0	± 9.6 %
		Y	4.90	96.93	26.57		110.0	<b>├───</b> ── <b> </b>
		Z	4.52	91.43	23.95		110.0	

10061-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	X	2.92	78.86	20.97	2.04	110.0	±9.6 %
CAB	Mbps)				10.07			
		Y	1.70	73.25	19.05		110.0	
10062-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6	<u>Z</u>	2.19	75.27	19.88	0.10	110.0	
CAB	Mbps)	X	4.70	66.68	16.55	0.49	100.0	± 9.6 %
		<u> </u>	4.18	67.42	16.56		100.0	
		Z	4.65	66.61	16.51		100.0	
10063- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.70	66.73	16.62	0.72	100.0	± 9.6 %
		Y	4.18	67.49	16.63		100.0	
		Z	4.66	66.66	16.57		100.0	
10064- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.99	66.98	16.82	0.86	100.0	± 9.6 %
		Y	4.36	67.60	16.75		100.0	
		Z 1	4.94	66.90	16.78		100.0	
10065- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.85	66.84	16.87	1.21	100.0	± 9.6 %
		Y	4.23	67.25	16.71		100.0	
		Z	4.80	66.75	16.83		100.0	
10066- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.86	66.83	16.99	1.46	100.0	± 9.6 %
		Y	4.21	67.08	16.71		100.0	
		Z	4.80	66.72	16.95		100.0	ł
10067- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.14	66.93	17.36	2.04	100.0	± 9.6 %
		Y	4.40	67.10	16.99		100.0	1
		Z	5.08	66.86	17.34		100.0	
10068- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.19	66.98	17.55	2.55	100.0	± 9.6 %
		İΥ	4.52	67.37	17.35		100.0	
		Z	5.12	66.84	17.50		100.0	
10069- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.27	66.95	17.72	2.67	100.0	± 9.6 %
		Y	4.52	67.17	17.38		100.0	
		Z	5.20	66.85	17.69		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.96	66.60	17.22	1,99	100.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	TT	4.44	67.29	17.20		100.0	
		Z	4.91	66.53	17.19		100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.94	66.90	17.40	2.30	100.0	± 9.6 %
		ΙY	4.35	67.27	17.25		100.0	
		Z	4.87	66.79	17.36		100.0	1
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	4.99	67.03	17.67	2.83	100.0	± 9.6 %
		Y	4.41	67.49	17.58		100.0	
		Z	4.92	66.90	17.63		100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.97	66.91	17.78	3.30	100.0	± 9.6 %
	· · · · · · · · · · · · · · · ·	Y	4.49	67.70	17.84		100.0	
		Z	4.90	66.77	17.74		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.02	67.05	18.08	3.82	90.0	± 9.6 %
		Y	4.55	67.83	18.12		90.0	
		Z	4.94	66.85	18.01		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.03	66.84	18.17	4.15	90.0	± 9.6 %
		Y	4.61	67.72	18.28		90.0	
		Z	4.95	66.65	18.12		90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.06	66.90	18.26	4.30	90.0	± 9.6 %
		Y	4.65	67.85	18.42	1	90.0	
	· _ • ·	İż	4.98	66.71	18.21	i	90.0	1

10081- CAB	CDMA2000 (1xRTT, RC3)	x	1.05	69.26	14.55	0.00	150.0	± 9.6 %
		Y	0.28	60.00	5.33		150.0	
		z	0.92	67.44	13.36	· · ·	150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	х	0.52	58.22	3.69	4.77	80.0	± 9.6 %
		Y	0.41	56.78	1.87		80.0	
		Z	0.54	57.53	2.88		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	17.35	89.03	19.19	6.56	60.0	± 9.6 %
		Y	100.00	107.61	23.00		60.0	
40007		Z	100.00	108.37	23.77		60.0	
10097- CAB	UMTS-FDD (HSDPA)	X	1.96	68.94	16.57	0.00	150.0	± 9.6 %
		Y	2.57	76.20	18.23		150.0	
10098-	UMTS-FDD (HSUPA, Subtest 2)	Z	1.90	68.41	16.17	0.00	150.0	
CAB		X	1,92	68.91	16.54	0.00	150.0	± 9.6 %
		Y	2.54	76.26	18.30		150.0	
10099-		Z	1.86	68.36	16.14		150.0	
DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	9.94	91.01	31.21	9.56	60.0	± 9.6 %
		Y	5.73	82.09	28.86		60.0	
10100-		Z	7.90	87.03	30.13	0	60.0	
CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.32	71.40	17.37	0.00	150.0	± 9.6 %
		Y	2.95	71.83	18.07		150.0	
40404		Z	3.20	70.72	17.06		150.0	
10101- CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.33	67.99	16.32	0.00	150.0	± 9.6 %
		Y	3.00	68.42	16.63		150.0	
		Z	3.27	67.68			150.0	
10102- CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.43	67.94	16.40	0.00	150.0	± 9.6 %
_		Y	3.10	68.46	16.71		150.0	
		Z	<u>3.</u> 37	67.66	16.24		150.0	
10103- CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	6.02	73.90	19.30	3.98	65.0	± 9.6 %
		Y	4.68	73.18	19.41		65.0	
		Z	5.62	73.49	19.33		65.0	
10104- CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	6.42	73.34	19.91	3.98	65.0	± 9.6 %
		Y	4.72	70.79	18.81		65.0	
		Z	5.88	72.35	19.63		65.0	
10105- CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	6.34	73.01	20.09	3.98	65.0	± 9.6 %
		Y	4.65	70.25	18.83		65.0	
		Z	<u>5</u> .51	70.92	19.28		65.0	
10108- CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	×	2.90	70.63	17.22	0.00	150.0	± 9.6 %
		Ý	2.58	72.09	18.15		150.0	
		Z	2.79	69.99	16.90		150.0	
10109- CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.99	67.94	16.29	0.00	150.0	± 9.6 %
		Y	2.69	69.27	16.60		150.0	
10:15		Z	2.93	67.61	16.08		150.0	
10110- CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.37	69.82	16.91	0.00	150.0	± 9.6 %
		Y	2.17	72.66	17.66		150.0	
		Z	2.27	69.17	16.53		150.0	
10111- CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	х	2.75	69.14	16.80	0.00	150.0	± 9.6 %
		Y	2.72	72.65	17.00		150.0	
		Z	2.68	68.77	16.52		150.0	

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10112- CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.11	67.90	16.33	0.00	150.0	±9.6 %
		Y	2.81	69.41	16.67		150.0	<u> </u>
	· · · · · · · · · · · · · · · · · · ·							
10113- CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	Z X	3.05 2.91	67.61 69.24	1 <u>6.14</u> 16.90	0.00	150.0 150.0	±9.6 %
		T Y T	2.80	72.45	16.91		150.0	
		Ż	2.83	68.91	16.64		150.0	
10114- CAB	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	x	5.18	67.36	16.63	0.00	150.0	±9.6 %
		Y	4.69	67.54	16.80		150.0	
		Z	5.15	67.30	16.59		150.0	
10115- CAB	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.48	67.50	16.70	0.00	150.0	± 9.6 %
·		Y	4.94	67.76	16.85		150.0	
		Z	5.42	67.37	16.64		150.0	
10116- CAB	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.28	67.57	16.65	0.00	150.0	±9.6 %
		I Y I	4.76	67.79	16.84		150.0	
		Z	5.24	67.47	16.61		150.0	
10117- CAB	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	×	5.14	67.22	16.57	0.00	150.0	± 9.6 %
		Y	4.68	67.44	16.77		150.0	
		Z	5.11	67.13	16.53		150.0	
10118- CAB	IEEE 802.11n (HT Mixed, 81 Mbps, 16- QAM)	X	5.56	67.71	16.81	0.00	150.0	± 9.6 %
		Y	4.92	67.65	16.80		150.0	
-		Z	5.51	67.59	16.75		150.0	
10119- CAB	IEEE 802.11n (HT Mixed, 135 Mbps, 64- QAM)	X	5.26	67.51	16.64	0.00	150.0	± 9.6 %
-		Y	4.75	67.71	16.81		150.0	
		Z	5.23	67.43	16.60		150.0	
10140- CAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.47	67.94	16.32	0.00	150.0	± 9.6 %
		Y	3.08	68.53	16.60		150.0	
		Z	3.41	67.65	16.15		150.0	
10141- CAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.59	68.02	16.48	0.00	150.0	± 9.6 %
		Υ	3.23	68.87	16.85		150.0	
		Z	3.53	67.77	16.33		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	2.17	70.14	16.75	0.00	150.0	± 9.6 %
		Y	1.93	72.39	15.85		150.0	
		Z	2.06	69.38	16.26		150.0	1
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.69	70.39	16.77	0.00	150.0	± 9.6 %
		Y	1.77	67.88	12.65		150.0	
		Z	2.58	69.83	16.31		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.37	67.50	14.86	0.00	150.0	± 9.6 %
		Y	1.24	63.02	9.52		150.0	
		Z	2.27	66.99	14.42		150.0	
10145- CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.43	67.32	13.24	0.00	150.0	± 9.6 %
		Y	0.41	60.00	4.04		150.0	
		Z	1.25	65.61	11.99		150.0	
10146- CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	1.83	65.71	11.47	0.00	150.0	± 9.6 %
		Y	19.01	355.37	40.53		150.0	
		Z	1.52	64.01	10.27		150.0	
10147- CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	2.14	67.65	12.55	0.00	150.0	± 9.6 %
		Y	123.11	63.95	2.67		150.0	
		Z	1.70	65.34	11.08		150.0	

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10149- CAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	3.00	68.01	16.34	0.00	150.0	± 9.6 %
		Y	2.71	69.38	16.67		150.0	·
		Z	2.94	67.68	16.14		150.0	-
10150- CAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.12	67.96	16.38	0.00	150.0	± 9.6 %
		Y	2.83	69,51	16.73		150.0	
40454			3.06	67.68	16.19		150.0	
10151- CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	×	6.55	76.73	20.51	3.98	65.0	± 9.6 %
		Y	4.65	75.11	19.92		65.0	
10152-		Z	5.91	75.87	20.37		65.0	
CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	5.92	73.14	19.51	3.98	65.0	± 9.6 %
		Y	4.14	70.22	17.64		65.0	
10153-	LTE-TDD (SC-FDMA, 50% RB, 20 MHz,	Z	5.38	72.11	19.20		65.0	
CAC	64-QAM)	X	6.32	74.15	20.32	3.98	65.0	± 9.6 %
		Y	4.49	71.52	18.62		65.0	
10154-	LTE-FDD (SC-FDMA, 50% RB, 10 MHz,	Z X	5.75	73.14	20.03		65.0	L
CAD	QPSK)	Y	2.44	70.37	17.23	0.00	150.0	± 9.6 %
			2.24	73.24	17.96		150.0	<u> </u>
10155-	LTE-FDD (SC-FDMA, 50% RB, 10 MHz,	Z X	2.32	69.67	16.83		150.0	
CAD	16-QAM)	Y	2.75	69.15	16.81	0.00	150.0	± 9.6 %
	<u> </u>	Z	2.68	72.83 68.79	17.10		150.0	
10156-	LTE-FDD (SC-FDMA, 50% RB, 5 MHz,	X	2.05	70.60	16.53	0.00	150.0	
CAD	QPSK)	Y	1.46			0.00	150.0	± 9.6 %
_		Z	1.92	69.42 69.63	13.50		150.0	<u> </u>
10157- CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.25	69.63	<u>16.11</u> 15.12	0.00	<u>150.0</u> 150.0	± 9.6 %
		ΤΥ	0.93	61.53	7.91		150.0	
		Z	2.13	67.76	14.53		150.0	
10158- CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.91	69.31	16.96	0.00	150.0	± 9.6 %
		ΓY	2.84	72.68	17.03		150.0	
		Z	2.84	68.99	16.70		150.0	
10159- CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.39	69.07	15.47	0.00	150.0	± 9.6 %
		Y	0.94	61.44	7.84		150.0	
40400		Z	2.25	68.30	14.85		150.0	
10160- CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.87	69.48	16.90	0.00	150.0	± 9.6 %
		<u> </u>	2.53	71.06	17.44		150.0	
10161-	LTE-FDD (SC-FDMA, 50% RB, 15 MHz,	Z	2.80	69.08	16.66		150.0	
CAC	16-QAM)	X	3.02	67.94	16.33	0.00	150.0	± 9.6 %
	<u>+</u>	Y	2.72	69.68	16.46		150.0	
10162-	LTE-FDD (SC-FDMA, 50% RB, 15 MHz,	Z	2.96	67.65	16.13		150.0	
CAC	64-QAM)	X	3.13	68.07	16.43	0.00	150.0	± 9.6 %
	<u> </u>		2.84	70.03	16.63		150.0	
10166- CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	Z X	<u>3.07</u> 3.48	67.8 <u>1</u> 69.00	<u>16.24</u> 18.84	3.01	150.0 150.0	± 9.6 %
		Y	2.37	66.02	18.17		150.0	<b>_</b>
		z	3.30	68.39	18.62		150.0	
10167- CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	4.17	71.58	19.19	3.01	150.0 150.0	± 9.6 %
		Y	2.29	67.15	18.12		150.0	
		Ż	3.79	70.56	18.83		150.0	
			0.10	10.00	10.03		150.0	

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10168- CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	4.66	74.00	20.63	3.01	150.0	± 9.6 %
** · •*		Y	2.48	69.25	19.67		150.0	
		z	4.22	72.96	20.30		150.0	
10169- CAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	2.83	68.21	18.52	3.01	150.0	± 9.6 %
		Y	1.98	64.24	17.28		150.0	
		Z	2.57	66.84	17.97		150.0	
10170- CAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	3.78	73.87	20.84	3.01	150.0	±9.6 %
		Y	1.95	66.56	18.68		150.0	
		Z	3.16	71.49	20.02		150.0	-
10171- AAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	3.08	69.63	17.94	3.01	150.0	±9.6 %
		Y	1.72	64.21	_16.34		150.0	
		Z	2.64	67.80	17.26		150.0	
10172- CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	5.42	80.62	23.60	6.02	65.0	±9.6 %
		Y	2.15	69.85	20.42		65.0	
		Z	4.45	78.76	23.36		65.0	
10173- CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	8.97	86.28	23.79	6.02	65.0	± 9.6 %
		Y	2.26	72.00	19.72		65.0	
		Z	6.61	83.59	23.38		65.0	
10174- CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	7.82	83.09	22.18	6.02	65.0	± 9.6 %
		Y	1.97	69.58	18.06		65.0	
		Z	5.22	78.89	21.15		65.0	
10175- CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	2.79	67.90	18.26	3.01	150.0	± 9.6 %
		Y	1.97	64.07	17.08		150.0	
		Z	2.54	66.56	17.72	_	150.0	
10176- CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	3.78	73.89	20.85	3.01	150.0	± 9.6 %
		Y	1.95	66.57	18.69		150.0	
		Z	3.16	71.52	20.03		150.0	
10177- CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	2.82	68.06	18.36	3.01	150.0	± 9.6 %
		Y	1.98	64.12	17.12		150.0	
		Z	2.56	66.70	17.81		150.0	
10178- CAD	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	3.74	73.65	20.71	3.01	150.0	± 9.6 %
		Y	1.95	66.53	18.65		150.0	
		Z	3.13	71.32	19.91		150.0	
10179- CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	3.39	71.59	19.23	3.01	150.0	±9.6 %
		Y	1.82	65.39	17.45		150.0	
		Z	2.87	69.52	18.50		150.0	
10180- CAD	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	3.08	69.55	17.88	3.01	150.0	± 9.6 %
		Y	1.72	64.21	16.33		150.0	
		Z	2.64	67.75	17.21		150.0	
10181- CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	2.81	68.04	18.35	3.01	150.0	± 9.6 %
		Y	1.97	64.11	17.12		150.0	
		Z	2.56	66.68	17.80	<u> </u>	150.0	
10182- CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	3.73	73.62	20.70	3.01	150.0	±9.6 %
		Y	1.95	66.51	18.64		150.0	L
		Z	3.13	71.29	19.90		150.0	L
10183- AAB	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	3.07	69.53	17.87	3.01	150.0	± 9.6 %
		Y	1.72	64.19	16.32		150.0	
		Z	2.64	67.72	17.20		150.0	

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10184- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	2.82	68.08	18.37	3.01	150.0	± 9.6 %
		Y	1.98	64.13	17.13		150.0	
		Z	2.56	66.72	17.83		150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	3.75	73.70	20.74	3.01	150.0	± 9.6 %
		Y	1.96	66.56	18.67		150.0	T
		Z	3.14	71.36	19.94		150.0	I
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	X	3.09	69.60	17.91	3.01	150.0	± 9.6 %
		Y	1.73	64.23	16.35		150.0	
10187-		Z	2.65	67.78	17.23		150.0	
CAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	2.83	68.13	18.43	3.01	150.0	± 9.6 %
		Y	1.99	64.22	17.23		150.0	
10188-		Z	2.57	66.77	17.89		150.0	
CAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	3.88	74.41	21.15	3.01	150.0	± 9.6 %
		Y	1.98	66.86	18.93		150.0	
10189-		<u>Z</u>	3.23	71.97	20.32		150.0	
AAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	3.15	70.02	18.19	3.01	150.0	± 9.6 %
	<u>+</u>	Y	1.74	64.44	16.55		150.0	
10193-	IEEE 802.11n (HT Greenfield, 6.5 Mbps,	Z	2.70	68.15	17.50		150.0	
CAB	BPSK)	X	4.57	66.79	16.35	0.00	150.0	± 9.6 %
		Y	4.14	67.99	16.59		150.0	_
10194-	IEEE 802.11n (HT Greenfield, 39 Mbps,	Z	4.54	66.72	16.28		150.0	
<u>CAB</u>	16-QAM)	X	4.75	67.11	16.47	0.00	150.0	± 9.6 %
	<u> </u>	Y	4.22	68.00	16.68		150.0	
10195-		Z	4.70	67.02	16.41		150.0	
CAB	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.79	67.14	16.49	0.00	150.0	± 9.6 %
	<u> </u>	Y	4.23	67.92	16.65		150.0	
10196-		Z	4.74	67.05	16.43		150.0	
CAB	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.58	66.86	16.37	0.00	150.0	± 9.6 %
		Y	4.11	67.92	16.54		150.0	
40407		Z	4.54	66.78	16.30		150.0	
10197- CAB	IEEE 802.11n (HT Mixed, 39 Mbps, 16- QAM)	X	4.76	67.13	16.48	0.00	150.0	± 9.6 %
		Y	4.23	68.00	16. <u>6</u> 9		150.0	
10100		Z	4.71	67.04	16.42		150.0	
10198- CAB	IEEE 802.11n (HT Mixed, 65 Mbps, 64- QAM)	X	4.79	67.15	16.50	0.00	150.0	± 9.6 %
		Y	4.22	67.91	16.64	·	150.0	
10219-		Z	4.74	67.07	16.44		150.0	
CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.53	66.88	16.34	0.00	150.0	± 9.6 %
		Y	4.08	68.06	16.58		150.0	
10220-		Z	4.49	66.80	16.27		150.0	
CAB	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16- QAM)	X	4.76	67.10	16.47	0.00	150.0	± 9.6 %
		Y	4.22	67.96	16.67		150.0	
10221-		Z	4.71	67.01	16.41		150.0	
CAB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64- QAM)	X	4.80	67.08	16.48	0.00	150.0	± 9.6 %
		Y	4.25	67.92	16.65		150.0	
10222-		Z	4.75	67.00	16.42		150.0	
CAB	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.12	67.23	16.57	0.00	150.0	± 9.6 %
	<u> </u>	Y T	4.67	67.48	16.77		150.0	
		Z	5.09	67.14	16.52		150.0	

10223-	IEEE 802.11n (HT Mixed, 90 Mbps, 16-	X	5.42	67.42	16.68	0.00	150.0	± 9.6 %
CAB	QAM)	Y	4.05	07.57	40.77		450.0	
	+		4.85	67.57	16.77		150.0	
10224- CAB	IEEE 802.11n (HT Mixed, 150 Mbps, 64- QAM)	Z X	<u>5.40</u> 5.17	67.40 67.35	16.67 16.56	0.00	<u>150.0</u> 150.0	± 9.6 %
		T	4.71	67.68	16.79		150.0	
		z	5.13	67.25	16.51		150.0	
10225- CAB	UMTS-FDD (HSPA+)	×	2.87	66.58	15.73	0.00	150.0	± 9.6 %
		Y	2.38	67.09	13.98		150.0	
		Z	2.82	66.38	15.50		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	9.50	87.34	24.24	6.02	65.0	± 9.6 %
		_ Y _	2.34	72.67	20.10		65.0	
		Z	6.98	84.60	23.83		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	8.72	84.77	22.80	6.02	65.0	± 9.6 %
_		Y	2.21	71.55	18.95		65.0	
		Z	6.78	83.00	22.65		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	7.70	87.24	26.02	6.02	65.0	± 9.6 %
		Y	2.35	71.63	21.26		65.0	
		Z	5.43	82.72	24.92		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	9.03	86.38	23.83	6.02	65.0	± 9.6 %
		Y	2.27	72.06	19.75		65.0	
		Z	6.67	83.69	23.42		65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	X	8.29	83.90	22.43	6.02	65.0	± 9.6 %
		Y	2.13	70.90	18.60		65.0	
		Z	6.44	82.12	22.26		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	7.38	86.38	25.64	6.02	65.0	±9.6 %
		Y	2.30	71.12	20.95		65.0	
		Z	5.24	81.97	24.56		65.0	
10232- CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	9.02	86.36	23.83	6.02	65.0	± 9.6 %
· · ·		Y	2.27	72.05	19.75		65.0	
		Z	6.65	83.67	23.41		65.0	
10233- CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	8.28	83.89	22.42	6.02	65.0	± 9.6 %
		Y	2.13	70.87	18.59		65.0	
		Z	6.43	82.09	22.25		65.0	
10234- CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	7.10	85.54	25.23	6.02	65.0	± 9.6 %
		Y	2.26	70.79	20.68		65.0	
		Z	5.08	81.30	24.19		65.0	
10235- CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	9.02	86.38	23.84	6.02	65.0	± 9.6 %
		Υ	2.27	72.05	19.76		65.0	
		Z	6.65	83.69	23.42		65.0	
10236- CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	8.34	83.99	22.45	6.02	65.0	± 9.6 %
		Y	2.15	70.97	18.63		65.0	
		Z	6.48	82.21	22.28		65.0	
10237- CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	7.38	86.43	25.66	6.02	65.0	± 9.6 %
		Y	2.30	71.11	20.95		65.0	L
		Z	5.24	82.00	24.57		65.0	
10238- CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	9.00	86.33	23.82	6.02	65.0	± 9.6 %
		Υ	2.26	72.03	19.74		65.0	
		Z	6.63	83.64	23.40		65.0	

10239- CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	8.25	83.86	22.41	6.02	65.0	± 9.6 %
		Y	2.13	70.85	18.59		65.0	1
		Z	6.41	82.06	22.24		65.0	
10240- CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	7.36	86.38	25.64	6.02	65.0	± 9.6 %
		Y	2.30	71.11	20.95		65.0	
	·	Ζ	5.22	81.96	24.56		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	×	7.65	78.90	23.86	6.98	65.0	± 9.6 %
		Y	4.15	74.63	23.03		65.0	
		Ζ	6.65	77.23	23.41		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	7.40	78.25	23.51	6.98	65.0	± 9.6 %
		Y	3.84	73.21	22.33		65.0	
		Z	6.07	75.38	22.52		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	6.13	75.50	23.22	6.98	65.0	± 9.6 %
·		Y	3.68	71.24	22.18		65.0	
		Z	5.17	72.72	22.17		65.0	
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	×	4.96	71.78	16.23	3.98	65.0	± 9.6 %
		Y	1.47	60.59	6.86		65.0	
1001		Z	4.27	70.57	15.63		65.0	
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	4.90	71.39	16.01	3.98	65.0	± 9.6 %
		Y	1.47	60.48	6.73		65.0	
		Ζ	4.22	70.14	15.39		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	×	4.94	75.03	17.94	3.98	65.0	± 9.6 %
		Y	1.46	62.04	8.51		65.0	
		Z	4.23	73.72	17.40		65.0	
10247- CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	4.94	72.43	17.57	3.98	65.0	± 9.6 %
		Y	2.10	63.24	9.90		65.0	
		Z	4.38	71.34	17.07		65.0	
10248- CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	4.96	72.03	17.39	3.98	65.0	± 9.6 %
		Y	2.10	62.93	9.72		65.0	
		Z	4.40	70.92	16.87		65.0	
10249- CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	6.07	78.35	20.13	3.98	65.0	± 9.6 %
		Y	2.33	67.19	12.94		65.0	
		Z	5.28	77.21	19.80		65.0	
10250- CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	х	5.95	75.24	20.37	3.98	65.0	± 9.6 %
		Y	3.82	70.93	16.95		65.0	
		Z	5.33	74.14	20.02		65.0	
10251- CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	5.69	73.28	19.20	3.98	65.0	± 9.6 %
		Y	3.45	68.36	15.25		65.0	
		Z	5.13	72.25	18.83		65.0	
10252- CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	6.58	78.88	21.28	3.98	65.0	± 9.6 %
		Y	4.11	75.12	18.99		65.0	
		Z	5.80	77.80	21.07		65.0	
10253- CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	5.80	72.65	19.29	3.98	65.0	± 9.6 %
		Y	4.01	69.64	16.98		65.0	-
		Z	5.29	71.67	18.98		65.0	
10254- CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	х	6.17	73.58	20.02	3.98	65.0	± 9.6 %
		Y	4.31	70.68	17.76		65.0	1
		Z	5.63	72.60	19.71		65.0	1

10255-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	X	6.29	76.23	20.52	3.98	65.0	± 9.6 %
CAC	QPSK)	Y		74.07	40.40			
			4.41	74.27	19.43		65.0	
10256-	LTE-TDD (SC-FDMA, 100% RB, 1.4	Z	5.67	75.30	20.34		65.0	
CAA	MHz, 16-QAM)	X	3.88	68.28	13.63	3.98	65.0	± 9.6 %
		Y	1.05	58.86	4.54		65.0	
40057		Z	3.28	66.95	12.85		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	3.85	67.85	13.35	3.98	65.0	±9.6 %
		Y	1.05	58.75	4.36		65.0	
40050		Z	3.25	66.51	12.54		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	3.78	70.85	15.35	3.98	65.0	± 9.6 %
		Y	1.11	60.00	5.99		65.0	
		Z	3.18	69.35	14.58		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	5.33	73.49	18.59	3.98	65.0	± 9.6 %
		Y	2.60	65.55	12,14		65.0	
		Z	4.76	72.43	18.16		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	5.38	73.29	18.52	3.98	65.0	±9.6 %
		Y	2.62	65.36	12.01		65.0	
		Z	4.80	72.23	18.08		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	6.02	77.89	20.37	3.98	65.0	± 9.6 %
		Y	2.87	69.70	14.96		65.0	
		Z	5.26	76.76	20.06		65.0	
10262- CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	5.94	75.19	20.32	3.98	65.0	± 9.6 %
		Y	3.80	70.83	16.88		65.0	
		Ż	5.32	74.09	19.98		65.0	
10263- CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	5.68	73.26	19.19	3.98	65.0	± 9.6 %
0/10		Y	3.45	68.35	15.24		65.0	
		z	5.12	72.23	18.82		65.0	
10264- CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	6.52	78.70	21.19	3.98	65.0	± 9.6 %
		Ι γ Ι	4.06	74.89	18.86		65.0	
		Ż	5.75	77.62	20.97		65.0	
10265- CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	5.92	73.14	19.52	3.98	65.0	± 9.6 %
0/10		Y	4.14	70.23	17.64		65.0	
		Z	5.38	72.12	19.20		65.0	
10266- CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	6.31	74.13	20.31	3.98	65.0	± 9.6 %
		Y	4.49	71.50	18.60	-	65.0	
	1	Ż	5.75	73.12	20.02	İ	65.0	
10267- CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	6.54	76.70	20.49	3.98	65.0	±9.6 %
		Y	4.64	75.05	19.89		65.0	
		Ż	5.90	75.83	20.35		65.0	1
10268- CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	6.58	73,24	19.99	3.98	65.0	± 9.6 %
		Y	4.89	71.06	18.92		65.0	
40000		Z	6.05	72.29	19.72	0.00	65.0	1000
10269- CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	6.56	72.88	19.90	3.98	65.0	± 9.6 %
		Y	4.96	70.94	18.86		65.0	
		Z	6.05	71.95	19.63		65.0	
10270-	LTE-TDD (SC-FDMA, 100% RB, 15	X	6.52	74.64	19.85	3.98	65.0	± 9.6 %
CAC	MHz, QPSK)	1 1		1				
		Y	4.97 5.98	73.67	19.72		65.0	

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.66	67.03	15.70	0.00	150.0	± 9.6 %
-		Y	2.34	68.55	14.63		150.0	
		z	2.62	66.83	15.48		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.75	69.41	16.56	0.00	150.0	± 9.6 %
		Y	2.02	74.91	18.12		150.0	
		Ζ	1.67	68.59	16.06		150.0	
10277- CAA	PHS (QPSK)	X	2.57	62.13	7.82	9.03	50.0	± 9.6 %
		Y	1.60	59.68	4.94		50.0	
		Z	2.26	61.44	7.11		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	4.26	69.41	14.02	9.03	50.0	± 9.6 %
		Y	2.29	61.84	7.55		50.0	
		Ζ	3.87	68.64	13.41		50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	4.37	69.66	14.18	9.03	50.0	± 9.6 %
		Y	2.31	61.88	7.61		_50.0	
		Z	3.97	68.90	13.58		<u>5</u> 0.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	1.85	72.31	15.88	0.00	150.0	± 9.6 %
		Y	0.36	60.00	5.29		150.0	
		Z	1.58	70.17	14.63		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	Х	1.02	68.88	14.36	0.00	150.0	± 9.6 %
		Y	0.28	60.00	5.31		150.0	
		Ζ	0.90	67.15	13.20		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	X	1.80	77.95	18.61	0.00	150.0	± 9.6 %
		. Y	0.38	62.69	7.21		150.0	
		Z	1.39	74.03	16.69		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	5.83	95.82	25.10	0.00	150.0	± 9.6 %
		Y	100.00	107.50	20.43		150.0	
		Z	3.54	87.74	22.15		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	7.34	78.85	20.80	9.03	50.0	± 9.6 %
		Y	17.07	85.10	19.02		50.0	
		Z	7.80	80.40	21.29		50.0	
10297- AAB	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.92	70.76	17.30	0.00	150.0	± 9.6 %
		Ý	2.60	72.27	18.25		150.0	
		Z	2.80	70.10	16.98		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.81	69.98	15.49	0.00	150.0	± 9.6 %
	·	Y	0.52	60.00	6.04		150.0	
		Z	1.63	68.52	14.51		150.0	
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	2.47	68.97	14.03	0.00	150.0	± 9.6 %
		Y	0.58	60.00	4.73		150.0	
		Z	2.10	67.38	13.05		150.0	
10300- 	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	1.87	64.64	11.20	0.00	150.0	± 9.6 %
		Y	0.56	60.00	_ 4.04 _		150.0	
		Z	1.64	63.62	10.41		150.0	
10301- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.64	64.99	17.32	4.17	50.0	± 9.6 %
		Y	3.97	66.09	16.87		50.0	
		Z	4.63	65.19	17.38		50.0	
10302- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.19	65.93	18.20	4.96	50.0	± 9.6 %
		Y	4.41	66.55	17.60		50.0	
		Z	5.08	65.68	18.02	1	50.0	1 ·

10303- AAA	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	4.95	65.59	18.05	4.96	50.0	± 9.6 %
		T Y	4.26	66.62	17.49		50.0	
		Ż	4.83	65.30	17.84		50.0	
10304- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.75	65.47	17.56	4.17	50.0	± 9.6 %
		Y	4.05	66.34	16.93		50.0	
		Z	4.65	65.23	17.38		50.0	
10305- AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.49	67.73	19.78	6.02	35.0	± 9.6 %
		Y	3.71	67.28	16.67		35.0	
		Z	4.28	66.94	19.23		35.0	
10306- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.75	66.48	19.22	6.02	35.0	± 9.6 %
		Y	4.04	67.06	17.49		35.0	
40007		Z	4.60	65.99	18.86		35.0	
10307- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.67	66.74	19.24	6.02	35.0	±9.6 %
		<u>Y</u>	3.93	66.99	17.33		35.0	
10000		Z	4.50	66.15	18.83		35.0	<u> </u>
10308- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	4.65	66.96	19.39	6.02	35.0	± 9.6 %
	·	Y	3.96	67.42	17.62		35.0	
10309-		Z	4.47	66.34	18.96	0.00	35.0	
10309- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	4.80	66.69	19.36	6.02	35.0	± 9.6 %
		Y	4.07	67.23	17.68		35.0	
40040		Z	4.64	66.17	18.98		35.0	
10310- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	4.70	66.58	19.22	6.02	35.0	± 9.6 %
		<u>Y</u>	4.03	67.27	17.61		35.0	
40044		Z	4.55	66.06	18.84		35.0	
10311- AAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.29	69.98	16.90	0.00	150.0	± 9.6 %
		Y	2.90	70.63	17.62		150.0	
10010		Z	3.17	69.35	16.60		150.0	
10313- AAA	iDEN 1:3	X	3.28	70.39	14.65	6.99	70.0	± 9.6 %
	·	Y	2.53	71.17	15.80		70.0	
40044		Z	2.85	70.12	14.78	40.00	70.0	
10314- AAA	iDEN 1:6	X	4.28	75.46	19.37	10.00	30.0	± 9.6 %
	· · · ·	Y	4.79	80.62	22.06		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1	Z X	4.09 1.12	76.26 64.41	<u>19.99</u> 15.77	0.17	30.0 150.0	± 9.6 %
1770	Mbps, 96pc duty cycle)	Y	1.15	65.92	16.47		150.0	
		Z	1.10	63.89	15.39		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	X	4.61	66.72	16.37	0.17	150.0	± 9.6 %
		Y	4.09	67.47	16.39		150.0	
		z	4.56	66.65	16.32		150.0	
10317- AAB	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.61	66.72	16.37	0.17	150.0	± 9.6 %
		Y	4.09	67.47	16.39		150.0	
		Z	4.56	66.65	16.32		150.0	
10400- AAC	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.74	67.15	16.46	0.00	150.0	± 9.6 %
		Y	4.09	67.65	16.48		150.0	
		Z	4.69	67.06	16.40		150.0	
10401- AAC	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.44	67.31	16.60	0.00	150.0	± 9.6 %
		Y	4.84	67.31	16.60		150.0	-

10402-	IEEE 802.11ac WIFi (80MHz, 64-QAM,	X	5.69	67.61	16.60	0.00	150.0	± 9.6 %
AAC	99pc duty cycle)	+					ļ	<u> </u>
		Ϋ́	5.24	67.76	16.80		150.0	
10403-		Z	5.65	67.50	16.56		150.0	
AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	1.85	72.31	15.88	0.00	115.0	± 9.6 %
		Y	0.36	60.00	5.29		115.0	
		Z	1.58	70.17	14.63		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	X	1.85	72.31	15.88	0.00	115.0	± 9.6 %
		Y	0.36	60.00	5.29		115.0	
		Z	1.58	70.17	14.63		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	53.12	115.17	29.24	0.00	100.0	± 9.6 %
		Y	100.00	124.65	27.76		100.0	
		Z	28.83	109.13	27.97		100.0	
10410- AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.68	83.50	19.17	3.23	80.0	± 9.6 %
		Y	1.37	73.33	16.57		80.0	
		Z	5.13	82.70	19.33		80.0	
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.04	63.68	15.36	0.00	150.0	± 9.6 %
		Y	1.11	65.66	16.32		150.0	
		Z	1.04	63.32	15.03		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4.58	66.83	16.42	0.00	150.0	± 9.6 %
		Y	4.11	67.78	16.58		150.0	
		Z	4.54	66.76	16.35		150.0	
10417- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.58	66.83	16.42	0.00	150.0	± 9.6 %
		Y	4.11	67.78	16.58		150.0	·
		Z	4.54	66.76	16.35		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.57	67.00	16.44	0.00	150.0	± 9.6 %
		Y	4.09	68.01	16.69		150.0	
		Z	4.53	66.93	16.39		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.59	66.94	16.44	0.00	150.0	± 9.6 %
		Y	4.11	67.93	16.65		150.0	
		Z	4.55	66.87	16.38	_	150.0	
10422- AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.71	66.93	16.45	0.00	150.0	± 9.6 %
		Y	4.19	67.82	16.64		150.0	
		Z	4.66	66.86	16.39		150.0	
10423- AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	Х	4.87	67.25	16.56	0.00	150.0	± 9.6 %
		Y	4.27	68.04	16.70	_	150.0	
		Z	4.82	67.16	16.50		150.0	
10424- AAA	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.79	67.20	16.54	0.00	150.0	± 9.6 %
		Y	4.21	67.94	16.67		150.0	
		Z	4.74	67.12	16.47		150.0	· · · · ·
10425- AAA	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.39	67.48	16.69	0.00	150.0	± 9.6 %
		Y	4.86	67.72	16.85		150.0	
		Z	5.35	67.38	16.64		150.0	
10426-	IEEE 802.11n (HT Greenfield, 90 Mbps,	X	5.40	67.51	16.70	0.00	150.0	±9.6 %
AAA	16-QAM)						1	
	16-QAM)	Y	4.89	67.85	16.91		150.0	

10427- AAA	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.41	67.49	16.68	0.00	150.0	± 9.6 %
		Y	4.87	67.71	16.83		150.0	
		Ż	5.37	67.41	16.64		150.0	
10430- AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.48	71.93	18.89	0.00	150.0	± 9.6 %
		Y	5.16	77.88	19.19		150.0	
		Z	4.43	71.96	18.79		150.0	
10431- AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.27	67.46	16.46	0.00	150.0	± 9.6 %
		Y	3.63	68.54	16.11		150.0	
		Z	4.21	67.36	16.35		150.0	
10432- AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.56	67.28	16.50	0.00	150.0	± 9.6 %
		Y I	3.98	68.25	16.55		150.0	
40400		Z	4.51	67.19	16.43		150.0	
10433- AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.81	67.24	16.56	0.00	150.0	± 9.6 %
		Y	4.24	68.00	16.70		150.0	
10424		Z	4.76	67.15	16.49	0.00	150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.67	73.09	18.99	0.00	150.0	± 9.6 %
·	·	Y	4.20	74.62	16.81		150.0	
10435-		Z	4.61	73.09	18.84	0.00	150.0	10.00
AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.37	82.80	18.90	3.23	80.0	± 9.6 %
		Y	1.33	72.76	16.26		80.0	
40447		Z	4.91	82.00	19.05		80.0	
10447- AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.58	67.63	15.88	0.00	150.0	± 9.6 %
		Y	2.52	66.35	12.95		150.0	
		Z	3.50	67.43	15.64		150.0	
10448- AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	4.11	67.25	16.33	0.00	150.0	± 9.6 %
		Y	3.54	68.41	16.05		150.0	
40440		Z	4.05	67.14	16.22		150.0	
10449- AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	4.38	67.12	16.41	0.00	150.0	±9.6 %
		Y	3.87	68.13	16.50		150.0	
40450		Z	4.33	67.03	16.33		150.0	
10450- AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X Y	4.57	67.02	16.42 16.59	0.00	150.0	± 9.6 %
				66.93	16.35		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	Z X	4.53 3.49	67.88	15.53	0.00	150.0	± 9.6 %
		Y	2.00	64.08	10.79		150.0	
		Z	3.38	67.58	15.21		150.0	
10456- AAA	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.26	68.00	16.81	0.00	150.0	± 9.6 %
		Y	6.16	68.95	17.43		150.0	
		Z	6.24	67.94	16.79		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	X	3.82	65.46	16.13	0.00	150.0	± 9.6 %
		Y	3.61	66.92	16.42		150.0	
		Z	3.81	65.40	16.06	-	150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.29	67.12	14.89	0.00	150.0	± 9.6 %
		<u>Y</u>	1.44	60.53	7.42		150.0	
		Z	3.18	66.78	14.49		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	4.43	65.51	15.86	0.00	150.0	±9.6 %
		Y	2.62	61.35	10.29		150.0	
		Z	4.37	65.53	15.72		150.0	

10460-	UMTS-FDD (WCDMA, AMR)	X	1.04	71.02	17.96	0.00	150.0	± 9.6 %
		Y	1.96	84.00	22.92		150.0	
10461-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	Z X	0.97 3.48	69.34 77.15	<u>16.98</u> 17.91	3.29	150.0 80.0	± 9.6 %
AAA	QPSK, UL Subframe=2,3,4,7,8,9)		0.40	11.10	17.31	5.25	00.0	19.0 %
		Y	0.97	69.25	15.91		80.0	
		Ζ	2.58	75.48	17.77		80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	1.03	60.33	8.14	3.23	80.0	± 9.6 %
		Y	0.21	55.42	3.53		80.0	
		Ż	0.84	60.00	7.93		80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	х	1.01	60.00	7.51	3.23	80.0	± 9.6 %
		Y	28.36	203.22	3.05		80.0	
		Z	0.86	60.00	7.39		80.0	
10464- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.64	73.32	15.98	3.23	80.0	± 9.6 %
		Y	0.75	66.12	13.77		80.0	
		Ζ	2.03	72.11	15.91		80.0	
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	х	0.99	60.00	7.91	3.23	80.0	± 9.6 %
		. Y	29.96	194.97	5.15		80.0	
10100		_Z	0.84	60.00	7.86		80.0	
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	×	1.01	60.00	7.46	3.23	80.0	± 9.6 %
		Y	30.98	196.96	1.83		80.0	
10467		Z	0.86	60.00	7.34	0.00	80.0	
10467- AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.77	73.96	16.25	3.23	80.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	0.77	66.65	14.10		80.0	
10468-		Z X	2.12	72.73	16.19	0.00	80.0	
AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)		0.99	60.08	7.96	3.23	80.0	±9.6 %
		Y	0.21	55.39	3.50		80.0	
10469-	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-	Z X	0.84	60.00 60.00	7.88 7.46	2.00	80.0	
AAB	QAM, UL Subframe=2,3,4,7,8,9)					3.23	80.0	± 9.6 %
		Y	30.66	197.41	1.31		80.0	
10470		Z	0.86	60.00	7.34	0.00	80.0	
10470- AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.76	73.94	16.23	3.23	80.0	± 9.6 %
		Y	0.77	66.67	14.10		80.0	
10471- AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	2,11 0.99	72.72 60.05	<u>16.18</u> 7.93	3.23	80.0 80.0	±9.6 %
		Y	29.34	196.18	6.49		80.0	· ·'
	· · · · · · · · · · · · · · · · · · ·	z	0.84	60.00	7.87		80.0	
10472- AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	x	1.01	60.00	7.45	3.23	80.0	± 9.6 %
		Y	30.49	197.73	1.27		80.0	
		Z	0.86	60.00	7.33		80.0	
10473- AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.76	73.90	16.22	3.23	80.0	± 9.6 %
		Y	0.77	66.63	14.08		80.0	
10.17		Z	2.11	72.69	16.16		80.0	
10474- AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	0.99	60.03	7.93	3.23	80.0	± 9.6 %
		Y	29.25	196.25	6.42		80.0	
10475		Z	0.84	60.00	7.87	0.00	80.0	
10475- AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	×	1.01	60.00	7.45	3.23	80.0	± 9.6 %
		Y	30.47	197.62	1.42		80.0	
		Z	0.86	60.00	7.33		80.0	

10477- AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	0.98	60.00	7.89	3.23	80.0	± 9.6 %
		Y	29.49	195.72	5.56		80.0	· · · ·
		Z	0.84	60.00	7.84		80.0	
10478- AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	1.01	60.00	7.44	3.23	80.0	± 9.6 %
_		Y	30.62	197.39	1.80		80.0	
		Z	0.86	60.00	7.32		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	3.88	74.90	18.39	3.23	80.0	±9.6%
		Y	2.49	77.92	19.26		80.0	
		Z	3.49	74.59	18.40		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.37	69.78	14.78	3.23	80.0	± 9.6 %
		Y	0.68	60.27	8.31		80.0	- ·
40404		Z	2.92	69.11	14.47		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.92	67.65	13.55	3.23	80.0	± 9.6 %
		Y	0.66	60.00	7.51		80.0	
40400		Z	2.50	66.84	13.14		80.0	
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.52	68.86	15.13	2.23	80.0	± 9.6 %
		Y_	0.83	60.00	6.91		80.0	
10483-		Z	2.14	67.39	14.41		80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.86	67.07	13.71	2,23	80.0	± 9.6 %
		Y	1.05	60.00	5.62		80.0	
10404		Z	2.44	65.81	13.01	0.00	80.0	
10484- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.80	66.60	13.51	2.23	80.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	1.07	60.00	5.60		80.0	
10108		Z	2.40	65.34	12.79		80.0	
10485- AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.96	70.85	16.91	2.23	80.0	± 9.6 %
		Y	1.17	62.58	10.56		80.0	
		Z	2.58	69.54	16.39		80.0	
10486- AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.96	67.72	15.13	2.23	80.0	± 9.6 %
		Y.	1.13	60.00	7.87		80.0	
		Z	2.66	66.76	14.61		80.0	
10487- AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.97	67.43	14.99	2.23	80.0	± 9.6 %
		Y	1.16	60.00	7.81		80.0	
10488- AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Z X	2.67 3.38	66.49 70.90	<u>14.47</u> 17.67	2.23	80.0 80.0	± 9.6 %
		Y	2.25	69.00	16.17		80.0	1
	1	z	3.02	69.76	17.29		80.0	†·
10489- AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.39	68.12	16.57	2.23	80.0	± 9.6 %
		Y	2.32	66.16	14.18		80.0	
		Z	3.13	67.37	16.26		80.0	
10490- AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.49	68.02	16.54	2.23	80.0	± 9.6 %
		Y	2.33	65.79	13.96	1	80.0	
		Z	3.23	67.30	16.25		80.0	
10491- AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.68	69.90	17.42	2.23	80.0	± 9.6 %
		Y	2.62	68.57	16.67		80.0	
		Z	3.36	68.97	17.13		80.0	
10492- AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.77	67.68	16.72	2.23	80.0	± 9.6 %
		Y	2.84	66.78	15.53		80.0	
		Z	3.53	67.02	16.47		80.0	

10493- AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.84	67.59	16.70	2.23	80.0	±9.6 %
		Y	2.87	66.60	15.40		80.0	
		Z	3.60	66.95	16.45		80.0	
10494- AAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.93	71.14	17.78	2.23	80.0	± 9.6 %
		Y	2.77	69.47	17.23		80.0	
		Z	3.56	70.11	17.48		80.0	
10495- AAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.80	68.03	16.89	2.23	80.0	± 9.6 %
		Y	2.91	67.12	16.06		80.0	
		Z	3.55	67.32	16.64		80.0	
10496- AAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.89	67.83	16.85	2.23	80.0	± 9.6 %
		Y	2.99	66.99	16.00		80.0	
		Z	3.64	67.16	16.61		80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.81	64.83	12.37	2.23	80.0	± 9.6 %
		Y	0.97	60.00	4.80		80.0	
		Z	1.52	63.38	11.47		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.56	60.98	9.46	2.23	80.0	± 9.6 %
		Y	19.60	209.65	15.97		80.0	
		Z	1.35	60.00	8.64		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.53	60.58	9.11	2.23	80.0	± 9.6 %
		Y	17.31	229.94	5.52		80.0	
		Z	1.37	60.00	8.51		80.0	1
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.10	70.67	17.16	2.23	80.0	± 9.6 %
		Y	1.60	65.48	12.91		80.0	
		Z	2.73	69.49	16.71		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.16	67.97	15.73	2.23	80.0	± 9.6 %
		Y	1.34	60.72	9.33		80.0	
		Z	2.88	67.15	15.31		80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.22	67.87	15.63	2.23	80.0	± 9.6 %
		Y	1.33	60.43	9.07		80.0	-
		Z	2.93	67.06	15.21		80.0	
10503- AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.34	70.72	17.57	2.23	80.0	± 9.6 %
		1. I						
		Y	2.22	68.78	16.06		80.0	
		YZ	2.22 2.98	<u>68.78</u> 69.59	16.06 17.20			
10504- AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Z X	2.98 3.37	69.59 68.03	17.20 16.51	2.23	80.0 80.0	± 9.6 %
10504-		Z X Y	2.98 3.37 2.30	69.59 68.03 66.01	17.20 16.51 14.09	2.23	80.0	± 9.6 %
10504-	16-QAM, UL Subframe=2,3,4,7,8,9)	Z X	2.98 3.37	69.59 68.03	17.20 16.51	2.23	80.0 80.0	± 9.6 %
10504-		Z X Y Z X	2.98 3.37 2.30 3.11 3.47	69.59 68.03 66.01 67.28 67.93	17.20 16.51 14.09 16.20 16.49	2.23	80.0 80.0 80.0	± 9.6 %
10504- AAB 	16-QAM, UL Subframe=2,3,4,7,8,9)	Z X Y Z X Y	2.98 3.37 2.30 3.11 3.47 2.31	69.59 68.03 66.01 67.28 67.93 65.66	17.20 16.51 14.09 16.20 16.49 13.87		80.0 80.0 80.0 80.0 80.0 80.0 80.0	
10504- AAB 10505- AAB	16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Z X Y Z X Y Z	2.98 3.37 2.30 3.11 3.47 2.31 2.31	69.59 68.03 66.01 67.28 67.93 65.66 67.21	17.20 16.51 14.09 16.20 16.49 13.87 16.19	2.23	80.0 80.0 80.0 80.0 80.0	
10504- AAB 	16-QAM, UL Subframe=2,3,4,7,8,9)	Z X Y Z X Y Z X	2.98 3.37 2.30 3.11 3.47 2.31 3.21 3.90	69.59 68.03 66.01 67.28 67.93 65.66 67.21 71.01	17.20 16.51 14.09 16.20 16.49 13.87 16.19 17.71		80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0	
10504- AAB 10505- AAB 10506-	16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Z X Y Z X Y Z X Y	2.98 3.37 2.30 3.11 3.47 2.31 3.21 3.90 2.75	69.59 68.03 66.01 67.28 67.93 65.66 67.21 71.01 69.34	17.20 16.51 14.09 16.20 16.49 13.87 16.19 17.71 17.15	2.23	80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0	± 9.6 %
10504- AAB 10505- AAB 10506- AAB	16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Z X Y Z X Y Z X Y Z	2.98 3.37 2.30 3.11 3.47 2.31 3.21 3.90 2.75 3.53	69.59 68.03 66.01 67.28 67.93 65.66 67.21 71.01	17.20 16.51 14.09 16.20 16.49 13.87 16.19 17.71 17.15 17.41	2.23	80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0	± 9.6 %
10504- AAB 10505- AAB 10506-	16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL	Z X Y Z X Y Z X Y	2.98 3.37 2.30 3.11 3.47 2.31 3.21 3.90 2.75	69.59 68.03 66.01 67.28 67.93 65.66 67.21 71.01 69.34	17.20 16.51 14.09 16.20 16.49 13.87 16.19 17.71 17.15	2.23	80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0	± 9.6 %
10504- AAB 10505- AAB 10506- AAB 10507-	16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 10	Z X Y Z X Y Z X Y Z	2.98 3.37 2.30 3.11 3.47 2.31 3.21 3.90 2.75 3.53	69.59 68.03 66.01 67.28 67.93 65.66 67.21 71.01 69.34 69.98	17.20 16.51 14.09 16.20 16.49 13.87 16.19 17.71 17.15 17.41	2.23	80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0	± 9.6 %

10508- AAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.87	67.76	16.81	2.23	80.0	± 9.6 %
		Y	2.97	66.90	15.95		80.0	
		Z	3.63	67.09	16.57		80.0	
10509- AAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.29	70.13	17.39	2.23	80.0	±9.6 %
		Ŷ	3.19	68.68	17.10		80.0	
		Z	3.96	69.31	17.16		80.0	
10510- AAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	4.29	67.87	16.94	2.23	80.0	± 9.6 %
		Y	3.35	66.74	16.37		80.0	
		Z	4.04	67.22	16.73		80.0	
10511- AAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.35	67.67	16.90	2.23	80.0	± 9.6 %
		Y	3.43	66.67	16.35		80.0	
		Z	4.11	67.05	16.70		80.0	
10512- AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.41	71.37	17.74	2.23	80.0	± 9.6 %
		Y	3.20	69.31	17.29		80.0	
		Z	4.03	70.41	17.47		80.0	
10513- AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	4.17	68.08	17.01	2.23	80.0	± 9.6 %
		Y	3.27	66.70	16.44		80.0	
10514- AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Z X	3.92 4.20	67.38 67.73	16.78 16.93	2.23	80.0 80.0	± 9.6 %
	Subirame=2,3,4,7,6,9)	Y	3.34	66.53	16.38		80.0	
		Z	<u> </u>	67.07	16.71		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	1.01	63.92	15.46	0.00	150.0	± 9.6 %
7001		Y	1.07	66.05	16.52		150.0	
		Ż	1.00	63.52	15.11		150.0	
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.80	76.03	20.57	0.00	150.0	± 9.6 %
		Y	1.63	90.26	26.95		150.0	
		Z	0.67	72.14	18.59		150.0	
10517- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.88	66.52	16.52	0.00	150.0	± 9.6 %
		Y	0.99	69.72	18.29		150.0	
10518- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	Z X	0.86 4.57	65.67 66.91	15.91 16.40	0.00	<u>150.0</u> 150.0	± 9.6 %
		Y	4.10	67.98	16.63		150.0	
	··· · · · · · · · · · · · · · · · · ·	Ż	4.53	66.84	16.34		150.0	
10519- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.75	67.14	16.51	0.00	150.0	± 9.6 %
		Y	4.20	68.09	16.69		150.0	
		Z	4.70	67.05	16.44		150.0	
10520- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.61	67.11	16.44	0.00	150.0	± 9.6 %
		Y	4.07	67.97	16.60		150.0	<b> </b>
10521- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	Z X	4.56 4.54	67.01 67.11	16.37 16.43	0.00	150.0 150.0	± 9.6 %
1111		Y	4.00	67.83	16.53		150.0	
		z	4.49	67.00	16.36	<u>+-</u>	150.0	
10522- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.60	67.20	16.52	0.00	150.0	± 9.6 %
		Y	4.00	67.82	16.53	I	150.0	
		Z	4.55	67.12	16.45		150.0	

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10523- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.49	67.08	16.37	0.00	150.0	± 9.6 %
		Y	4.01	68.16	16.68		150.0	1
		Z	4.44	67.01	16.31		150.0	
10524- AAA	IEEE 802.11a/n WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.54	67.12	16.48	0.00	150.0	± 9.6 %
		Y	3.97	67.92	16.63		150.0	
		Z	4.49	67.03	16.42		150.0	
10525- AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.54	66.18	16.08	0.00	150.0	± 9.6 %
	·	Y	4.09	67.26	16.38		150.0	
48-00		Z	4.50	66.10	16.02		150.0	
10526- AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.71	66.55	16.22	0.00	150.0	± 9.6 %
		Y	4.14	67.37	16.43		150.0	
40507		Z	4.65	66.45	16.16		150.0	
10527- AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duly cycle)	X	4.63	66.51	16.17	0.00	150.0	± 9.6 %
		Y.	4.11	67.44	16.42		150.0	
		Z	4.58	66.41	16.10		150.0	
10528- AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.64	66.53	16.20	0.00	150.0	± 9.6 %
	·	Y	<u>    4.10    </u>	67.35	16.39		150.0	
		Z	4.59	66.42	16.13		150.0	
10529- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.64	66.53	16.20	0.00	150.0	± 9.6 %
		Y	4.10	67.35	16.39		150.0	
		Z	4.59	66.42	16.13		150.0	
10531- AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.64	66.64	16.22	0.00	150.0	± 9.6 %
		Y	4.06	67.36	16.37		150.0	
		Z	4.58	66.51	16.14		150.0	
10532- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.50	66.50	16.16	0.00	150.0	± 9.6 %
		Y.	3.98	67.28	16.33		150.0	
		Z	4.44	66.37	16.07		150.0	
10533- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.65	66.58	16.19	0.00	150.0	± 9.6 %
		Y	4.11	67.58	16.46		150.0	
		Z	4.60	66.49	16.13		150.0	
10534- AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.17	66.59	16.23	0.00	150.0	± 9.6 %
		Y	4.70	66.96	16.45		150.0	
		Z	5.13	66.48	16.18		150.0	
10535- AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.24	66.77	16.31	0.00	150.0	± 9.6 %
		Y	4.70	67.00	16.48		150.0	
		Z	5.20	66.68	16.26		150.0	
10536- AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.11	66.73	16.27	0.00	150.0	± 9.6 %
		Y	4.62	67.02	16.47		150.0	
		Z	5.07	66.63	16.22		150.0	
10537- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.17	66.69	16.25	0.00	150.0	± 9.6 %
		Y	4.71	67.16	16.55		150.0	
10520		Z	5.13	66.59	16.20		150.0	
10538- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.26	66.70	16.30	0.00	150.0	± 9.6 %
	+	Y	4.72	66.92	16.45		150.0	
40546		Z	5.21	66.59	16.24		150.0	
10540- AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.19	66.73	16.33	0.00	150.0	± 9.6 %
<u> </u>		Ϋ́	4.66	66.87	16.46		150.0	
		Z	5.14	66.60	16.27		150.0	

10541- AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.16	66.59	16.25	0.00	150.0	± 9.6 %
7991		Y	4.67	66.90	16.44	<u> </u>	150.0	
		z	5.12	66.48	16.19		150.0	
10542- AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.31	66.65	16.29	0.00	150.0	±9.6%
		Y	4.80	66.97	16.49		150.0	
		Z	5.27	66.55	16.25		150.0	
10543- AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.39	66.68	16.33	0.00	150.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	4.85	67.01	16.54		150.0	
40544		Z	5.34	66.57	16.28		150.0	
10544- AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duly cycle)	X	5.48	66.68	16.21	0.00	150.0	± 9.6 %
· · -		Υ Υ	5.09	66.77	16.36		150.0	
10545	IEEE 802.11ac WiFi (80MHz, MCS1,	Z	5.46	66.59	16.17		150.0	
10545- AAA	99pc duty cycle)	X	5.68	67.10	16.37	0.00	150.0	±9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	5.20	67.11	16.51		150.0	
10546-		Z	5.65	67.02	16.33	0.00	150.0	
AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.55	66.89	16.28	0.00	150.0	± 9.6 %
		Y	5.10	66.84	16.37		150.0	
10547-	IEEE 802.11ac WiFi (80MHz, MCS3,	Z	5.51	66.77	16.22	0.00	150.0	
AAA	99pc duty cycle)	X	5.62	66.93	16.29	0.00	150.0	±9.6%
		Y	5.22	67.15	16.53		150.0	
10548-		Z	5.58	66.82	16.24	0.00	150.0	
AAA	IEEE 802.11ac WIFi (80MHz, MCS4, 99pc duty cycle)	X	5.87	67.85	16.72	0.00	150.0	± 9.6 %
		Y	5.13	67.04	16.46		150.0	
40550		Z	5.82	67.71	16.65		150.0	
10550- AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.58	66.91	16.30	0.00	150.0	±9.6 %
		Y	5.24	67.42	16.68		150.0	
10551-			5.55	66.83	16.27	0.00	150.0	
AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.58	66.96	16.28	0.00	150.0	± 9.6 %
		Y -	5.07	66.77	16.33		150.0	
10552- AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	Z X	5.54 5.50	66.84 66.76	16.2 <u>3</u> 16.19	0.00	150.0 150.0	± 9.6 %
1001		Y	5.09	66.99	16.43		150.0	
		z	5.47	66.66	16.15		150.0	
10553- AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.58	66.78	16.23	0.00	150.0	± 9.6 %
		Y	5.11	66.82	16.35		150.0	
		Z	5.54	66.67	16.18		150.0	
10554- AAA	IEEE 1602.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.89	67.03	16.29	0.00	150.0	± 9.6 %
		Y	5.55	66.98	16.39		150.0	
		Z	5.87	66.94	16.25		150.0	
10555- AAA	IEEE 1602.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	6.02	67.33	16.41	0.00	150.0	± 9.6 %
		Y	5.61	67.17	16.48		150.0	
		Z	5.99	67.24	16.37		150.0	
10556- AAA	IEEE 1602.11ac WiFi (160MHz, MCS2, 99pc duly cycle)	X	6.04	67.38	16.43	0.00	150.0	± 9.6 %
		Y	5.65	67.28	16.52		150.0	
		Z	6.02	67.29	16.39		150.0	
10557- AAA	IEEE 1602.11ac WiFi (160MHz, MCS3, 99pc duly cycle)	X	6.01	67.28	16.40	0.00	150.0	± 9.6 %
		Y	5.60	67.14	16.47		150.0	
		Z	5.97	67.17	16.35		150.0	

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10558- AAA	IEEE 1602.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.05	67.44	16.50	0.00	150.0	± 9.6 %
		Y	5.55	67.02	16.43		150.0	
		Z	6.02	67.33	16.43		150.0	
10560- AAA	IEEE 1602.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.05	67.29	16.46	0.00	150.0	± 9.6 %
		Y	5.59	67.02	16.46		150.0	
		Z	6.01	67.17	16.41		150.0	
10561- AAA	IEEE 1602.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.97	67.26	16.48	0.00	150.0	± 9.6 %
		Y	5.53	66.98	16.46		150.0	
		Z	5.94	67.16	16.44		150.0	
10562- AAA	IEEE 1602.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.09	67.63	16.67	0.00	150.0	± 9.6 %
		Y	5.59	67.19	16.57		150.0	
40500		Z	6.05	67.48	16.60		150.0	
10563- AAA	IEEE 1602.11ac WiFi (160MHz, MCS9, 99pc duly cycle)	X	6.29	67.85	16.73	0.00	150.0	±9.6 %
· · ·		Y	5.86	67.78	16.84		150.0	
40501		Z	6.16	67.47	16.55		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	X	4.89	66.92	16.50	0.46	150.0	±9.6 %
		Y	4.37	67.73	16.65		150.0	
40505		Z	4.84	66.85	16.44		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	X	5.12	67.38	16.83	0.46	150.0	±9.6 %
		Y	4.53	68.17	16.98		150.0	
		Ž	5.07	67.30	16.78		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	X	4.95	67.23	16.64	0.46	150.0	± 9.6 %
<u> </u>		Y	4.37	67.89	16.75		150.0	
		Z	4.90	67.13	16.58		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	4.98	67.65	17.02	0.46	150.0	± 9.6 %
		Y	4.44	68.37	17.19		150.0	
		Z	4.94	67.56	16.97		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	X	4.85	66.96	16.38	0.46	150.0	±9.6 %
		Y	4.20	67.26	16.25		150.0	
		Z	4.80	66.87	16.32		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	X	4.94	67.75	17.08	0.46	150.0	± 9.6 %
		Y	4.45	68.76	17.43		150.0	
		Z	4.90	67.68	17.04		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	4.98	67.59	17.02	0.46	150.0	± 9.6 %
		<u> Y</u>	4.39	68.33	17.21		150.0	l
40554		Z	4.93	67.52	16.97		150.0	L
10571- 	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.19	64.81	15.85	0.46	130.0	± 9.6 %
		Y	1.17	65.59	16.16		130.0	L
10575		Z	1.15	64.12	15.44		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.21	65.43	16.24	0.46	130.0	± 9.6 %
		Ý	1.18	66.27	16.61		130.0	
105-5		Z	1.17	64.67	15.80		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	2.73	90.43	24.99	0.46	130.0	± 9.6 %
		Υ	2.86	95.55	28.03		130.0	
		Z	1.51	81.07	21.85		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duly cycle)	X	1.39	72.10	19.60	0.46	130.0	± 9.6 %
		Y	1.35	73.36	20.46		130.0	
		Z	1.26	70.26	18.73	1	130.0	t

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10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.65	66.62	16.45	0.46	130.0	± 9.6 %
	OFDM, 6 Mbps, 90pc duty cycle)					0.40	100.0	± 0.0 %
		Y	4.13	67.33	16.45		130.0	
10576-		Z	4.61	66.55	16.40		130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle)	X	4.68	66.80	16.53	0.46	130.0	± 9.6 %
		Y	4.17	67.68	16.63		130.0	
10577-		Z	4.64	66.73	16.48		130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	X	4.88	67.09	16.70	0.46	130.0	± 9.6 %
		Y	4.28	67.86	16.75		130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	Z X	<u>4.83</u> 4.78	67.01 67.27	16.65 16.82	0.46	130.0 130.0	± 9.6 %
	or bin, to hipps, sope duty cycle)	Y	4.22	68.05	16.92		130.0	
		z	4.73	67.18	16.92		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	X	4.53	66.48	16.08	0.46	130.0	± 9.6 %
		Y	3.91	66.80	15.89		130.0	
		Z	4.48	66.37	16.01	-	130.0	
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	X	4.58	66.51	16.09	0.46	130.0	± 9.6 %
		Y	3.89	66.66	15.78		130.0	
		Z	4.53	66.42	16.03		130.0	
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	X	4.68	67.30	16.76	0.46	130.0	±9.6 %
		Y	4.14	68.18	16.94		130.0	
10500		Z	4.63	67.21	16.71		130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duly cycle)	X	4.47	66.23	15.85	0.46	130.0	±9.6 %
		Y	3.80	66.45	15.61		130.0	
10500		Z	4.42	66.12	15.78		130.0	
10583- AAA	IEEE 802.11a/n WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.65	66.62	16.45	0.46	130.0	± 9.6 %
		Y	4.13	67.33	16.45		<u>130.</u> 0	
40504		Z	4.61	66.55	16.40		130.0	
10584- AAA	IEEE 802.11a/n WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.68	66.80	16.53	0.46	130.0	±9.6 %
		Y	4.17	67.68	16.63		130.0	
40505		Z	4.64	66.73	16.48		130.0	
10585- AAA	IEEE 802.11a/n WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.88	67.09	16.70	0.46	130.0	± 9.6 %
		Y	4.28	67.86	16.75		130.0	
10586- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	Z X	<u>4.83</u> 4.78	67.01 67.27	16.65 16.82	0.46	130.0 130.0	± 9.6 %
		Y	4.22	68.05	16.92		130.0	
		z	4.73	67.18	16.77		130.0	·
10587- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.53	66.48	16.08	0.46	130.0	±9.6 %
		Y	3.91	66.80	15.89		130.0	
		Z	4.48	66.37	16.01		130.0	
10588- AAA	IEEE 802.11a/n WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.58	66.51	16.09	0.46	130.0	± 9.6 %
· · ·		Y	3.89	66.66	15.78		130.0	
40500		Z	4.53	66.42	16.03		130.0	
10589- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.68	67.30	16.76	0.46	130.0	±9.6 %
		<u>Y</u>	4.14	68.18	16.94		130.0	
10500		Z	4.63	67.21	16.71	-	130.0	
10590- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	×	4.47	66.23	15.85	0.46	130.0	± 9.6 %
		Y	3.80	66.45	15.61		130.0	
_		Z	4.42	66.12	15.78		130.0	

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10591-	IEEE 802.11n (HT Mixed, 20MHz,	X	4.80	66.69	16.56	0.46	130.0	± 9.6 %
AAA	MCS0, 90pc duly cycle)	-	1.00	0= 15				
		Y	4.29	67.48	16.65		130.0	
40500		Z	4.76	66.62	16.52		130.0	
10592- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duly cycle)	X	4.96	67.02	16.69	0.46	130.0	± 9.6 %
		Y	4.35	67.66	16.74		130.0	
		Z	4.91	66.95	16.65		130.0	
10593- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.87	66.92	16.57	0.46	130.0	± 9.6 %
		Y	4.28	67.58	16.60		130.0	
		Z	4.82	66.84	16.52		130.0	
10594- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.93	67.10	16.73	0.46	130.0	± 9.6 %
		Y	4.32	67.69	16.75		130.0	
		Z	4.88	67.02	16.68		130.0	
10595- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.90	67.04	16.62	0.46	130.0	±9.6 %
		Y	4.28	67.67	16.66		130.0	
		Z	4.85	66.97	16.57		130.0	
10596- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.83	67.04	16.62	0.46	130.0	± 9.6 %
		Y	4.19	67.48	16.58		130.0	
		Z	4.78	66.95	16.57		130.0	
10597- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.78	66.93	16.50	0.46	130.0	± 9.6 %
		Y	4.17	67.42	16.44		130.0	
		Z	4.73	66.84	16.44		130.0	
10598- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.77	67.20	16.78	0.46	130.0	± 9.6 %
		Y	4.23	67.87	16.85		130.0	<u> </u>
		Z	4.72	67.09	16.72		130.0	
10599- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.48	67.23	16.77	0.46	130.0	±9.6 %
		Y	5.11	68.05	17.18		130.0	
		Z	5.44	67.15	16.74		130.0	
10600- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.60	67.61	16.93	0.46	130.0	± 9.6 %
		Y	5.02	67.79	17.02		130.0	
		Z	5.57	67.57	16.91		130.0	
10601- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.49	67.38	16.83	0.46	130.0	± 9.6 %
		Y	4.99	67.77	17.04		130.0	
		Ż	5.46	67.31	16.81		130.0	
10602- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duly cycle)	X	5.59	67.40	16.75	0.46	130.0	±9.6 %
		Y	5.00	67.54	16.84		130.0	
		Ż	5.57	67.40	16.76		130.0	
10603- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.67	67.72	17.05	0.46	130.0	± 9.6 %
		Y	5.02	67.69	17.07		130.0	1
	· · · · ·	Ż	5.64	67.68	17.04		130.0	· ·
10604- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duly cycle)	X	5.49	67.21	16.78	0.46	130.0	± 9.6 %
· · ·		Y	5.00	67.56	16.96		130.0	1
		Ż	5.49	67.27	16.82		130.0	1
10605- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.59	67.50	16.92	0.46	130.0	± 9.6 %
		Y	4.95	67.41	16.89		130.0	<b> </b>
	·	Ż	5.56	67.47	16.92	1	130.0	
						+ - <del></del>		1
10606- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duly cycle)	X	5.33	66.83	16.44	0.46	130.0	± 9.6 %
10606- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duly cycle)		5.33 4.96	66.83 67.58	16.44 16.81	0.46	130.0	± 9.6 %

10607-	IEEE 802.11ac WiFi (20MHz, MCS0,	ТхТ	4.64	66.02	16.19	0.46	130.0	± 9.6 %
AAA	90pc duty cycle)			CONDE	10.10	0.40	100.0	10.070
		Y	4.16	66.91	16.36		130.0	
		Z	4.60	65.95	16.15		130.0	
10608- AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.83	66.42	16.36	0.46	130.0	± 9.6 %
		Y	4.22	67.08	16.44		130.0	
		Z	4.78	66.34	16.31		130.0	
10609- AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.71	66.26	16.19	0.46	130.0	± 9.6 %
		Y Y	4.14	66.94	<u>16.27</u>		130.0	
40040		Z	4.67	66.17	16.14		130.0	
10610- AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.77	66.42	16.36	0.46	130.0	± 9.6 %
		Y	4.18	67.09	16.43		130.0	
		Z	4.72	66.34	16.31		130.0	
10611- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	×	4.68	66.22	16.20	0.46	130.0	± 9.6 %
		Y	4.10	<u>66.8</u> 7	16.26		130.0	
4004-		Z	4.63	66.13	16.14		130.0	
10612- AAA	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	×	4.69	66.36	16.23	0.46	130.0	± 9.6 %
		Y	4.03	66.77	16.18		130.0	
		Z	4.63	66.26	16.18		130.0	
10613- AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.69	66.24	16.12	0.46	130.0	± 9.6 %
		Y	4.05	66.68	16.06		130.0	
		Z	4.63	66.13	16.05		130.0	
10614- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.64	66.46	16.37	0.46	130.0	± 9.6 %
		Y	4.09	67.10	16.44		130.0	
		Z	4.59	66.36	16.31		130.0	
10615- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.68	66.02	15.96	0.46	130.0	± 9.6 %
		Y	4.06	66.66	15.97		130.0	
		Z	4.62	65.94	15.90	-	130.0	
10616- AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.29	66.48	16.38	0.46	130.0	± 9.6 %
		Y	4.78	66.74	16.52		130.0	
		Z	5.26	66.40	16.35		130.0	
10617- AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.36	66.65	16.44	0.46	130.0	± 9.6 %
		Y	4.78	66.75	16.51		130.0	
		Z	5.33	66.60	16.42		130.0	
10618- AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.25	66.67	16.46	0.46	130.0	± 9.6 %
		Y	4.72	66.85	16.58		130.0	
		Z	5.21	66.61	16.44		130.0	
10619- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.26	66.46	16.29	0.46	130.0	± 9.6 %
		Y	4.77	66.81	16.49		130.0	
		Z	5.22	66.38	16.26		130.0	
10620- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.35	66.50	16.36	0.46	130.0	± 9.6 %
		Y	4.78	66.60	16.41		130.0	
		Z	5.31	66.41	16.33		130.0	
10621- AAA	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.35	66.65	16.56	0.46	130.0	± 9.6 %
		Y	4.83	66.85	16.68		130.0	
		_ Z	5.32	66.59	16.54		130.0	
10622- AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duly cycle)	X	5.37	66.81	16.63	0.46	130.0	± 9.6 %
		Y	4.79	66.84	16.68		130.0	
		Z	5.33	66.74	16.61	l	130.0	

10623- AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	x	5.24	66.32	16.25	0.46	130.0	± 9.6 %
		Y	4.72	66.50	16.34		130.0	
		z	5.20	66.24	16.22		130.0	
10624- AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.43	66.52	16.42	0.46	130.0	± 9.6 %
		Y	4.88	66.72	16.52		130.0	
		Z	5.40	66.45	16.39		130.0	
10625- AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.79	67.47	16.94	0.46	130.0	± 9.6 %
		Y	5.00	67.06	16.76		130.0	
		Z	5.70	67.26	16.85		130.0	
10626- AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.59	66.53	16.33	0.46	130.0	± 9.6 %
		Y	5.18	66.57	16.44		130.0	
40007		Z	5.56	66.46	16.31		130.0	
10627- AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duly cycle)	X	5.83	67.09	16.57	0.46	130.0	± 9.6 %
		Y	5.32	67.03	16.66		130.0	
40000		Z	5.81	67.05	16.57		130.0	<u> </u>
10628- AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.62	66.61	16.26	0.46	130.0	± 9.6 %
		Y	5.14	66.45	16.28		130.0	
40600		Z	5.58	66.50	16.22		130.0	
10629- AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.69	66.66	16.28	0.46	130.0	± 9.6 %
		Y	5.30	66.90	16.51		130.0	
40000		Z	5.66	66.57	16.25		130.0	
10630- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.12	68.14	17.02	0.46	130.0	± 9.6 %
		Ý	5.23	66.85	16.50		130.0	
		Z	6.06	67.97	16.95		130.0	
10631- AAA	IEEE 802.11ac WIFi (80MHz, MCS5, 90pc duty cycle)	X	6.03	67.99	17.15	0.46	130.0	±9.6 %
		Y	5.35	67.44	17.00		130.0	
	· · · · · · · · · · · · · · · · · · ·	Z	5.98	67.84	17.09		130.0	
10632- AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.80	67.18	16.76	0.46	130.0	± 9.6 %
		Y	5.50	67.84	17.20		130.0	
		Z	<u>5.</u> 78	67.15	16.76		130.0	
10633- AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duly cycle)	X	5.68	66.78	16.38	0.46	130.0	±9.6 %
		Y	<u>5.16</u>	66.59	16.40		130.0	
		Z	5.65	66.69	16.35		130.0	
10634- AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.67	66.82	16.47	0.46	130.0	±9.6 %
		Y	5.24	66.99	16.65		130.0	
		Z	5.63	66.72	16.43		130.0	
10635- AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.54	66.10	15.82	0.46	130.0	± 9.6 %
		Y	5.01	65.92	15.79		130.0	
		Ζ	5.50	65.99	15.78		130.0	
10636- AAA	IEEE 1602.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.00	66.89	16.41	0.46	130.0	± 9.6 %
		Y	5.65	66.81	16.48		130.0	
1000-		Z	5.98	66.82	16.39	<u> </u>	130.0	
10637- AAA	IEEE 1602.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.16	67.27	16.58	0.46	130.0	±9.6 %
		Y	5.75	67.13	16.64		<u>1</u> 30.0	
		Z	6.14	67.21	16.57		130.0	
10638- AAA	IEEE 1602.11ac WiFi (160MHz, MCS2, 90pc duly cycle)	X	6.15	67.24	16.55	0.46	130.0	±9.6 %
		Ý	<u>5.76</u>	67.17	16.64		130.0	
		Z	6.13	67.17	16.53		130.0	

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10639- AAA	IEEE 1602.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.13	67.20	16.57	0.46	130.0	± 9.6 %
		Y	5.71	67.01	16.60		130.0	·
		Z	6.11	67.11	16.54	<u> </u>	130.0	
10640- AAA	IEEE 1602.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.13	67.19	16.51	0.46	130.0	± 9.6 %
		Y	5.60	66.69	16.38		130.0	
		Z	6.11	67.10	16.47		130.0	· · · ·
10641- AAA	IEEE 1602.11ac WiFi (160MHz, MCS5, 90pc duly cycle)	X	6.18	67.10	16.48	0.46	130.0	± 9.6 %
		Y	5.73	66.87	16.49		130.0	
		Z	6.17	67.05	16.47		130.0	
10642- AAA	IEEE 1602.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.23	67.38	16.79	0.46	130.0	± 9.6 %
		Y	5.75	67.07	16.76		130.0	
		Z	6.20	67.30	16.77		130.0	
10643- 	IEEE 1602.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	Х	6.06	67.04	16.51	0.46	130.0	± 9.6 %
		Y	5.58	66.67	16.43		130.0	
·		Z	6.04	66.97	16.50		130.0	
10644- AAA	IEEE 1602.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.22	67.52	16.78	0.46	130.0	± 9.6 %
		Y	5.68	67.01	16.62		130.0	
		Z	6.17	67.37	16.71		130.0	
10645- AAA	IEEE 1602.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.52	68.03	16.98	0.46	130.0	± 9.6 %
		Y	6.07	67.95	17.07		130.0	
		Z	6.34	67.53	16.76		130.0	
10646- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	13.12	97.57	31.83	9.30	60.0	± 9.6 %
··		Y	3.90	78.39	26.30		60.0	
		Z	9.88	93.63	31.05		60.0	
10647- AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	12.04	96.40	31.56	9.30	60.0	±9.6 %
		Y	3.54	76.66	25.68		60.0	
		Z	8.93	92.04	30.63		60.0	
10648- AAA	CDMA2000 (1x Advanced)	X	0.77	65.21	11.99	0.00	150.0	± 9.6 %
		Y	0.27	60.00	4.67		150.0	
		Z	0.71	64.17	11.12		150.0	

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

#### Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

2017

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

PC Test Client

Certificate No: EX3-7410\_Jul17

<u>Calie</u>	<b>BRATION</b>	CERTIFIC	ATE

EX3DV4 - SN:7410

July 17, 2017

Calibration procedure(s)

QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes

Calibration date:

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

	Name	. ,	Function	Signature
Calibrated by:	Jeton Kastrati		Laboratory Technician C	q=0-
Approved by:	Kalja Pokovic		Technical Manager	Relly
This calibration certificat	e shall not be reoroduced exc	cept in full without	it written approval of the labor:	Issued: July 17, 2017

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst

- C Service suisse d'étalonnage
- S Servizio svizzero di taratura
- Swiss Calibration Service

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# Glossary:TSLtissue simulating liquidNORMx,y,zsensitivity in free spaceConvFsensitivity in TSL / NORMx,y,zDCPdiode 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 9	9 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:

- a) 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
- b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) 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
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Methods Applied and Interpretation of Parameters:

- NORMx, y, z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx, y, z are only intermediate values, i.e., the uncertainties of NORMx, y, z does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below *ConvF*).
- NORM(f)x,y,z = NORMx,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.
- DCPx, 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
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,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 ≤ 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 NORMx, 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 NORMx (no uncertainty required).

## Probe EX3DV4

## SN:7410

Calibrated:

Manufactured: November 24, 2015 July 17, 2017

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

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
<u>Norm (μV/(V/m)²)^</u>	0.40	0.46	0.43	± 10.1 %
DCP (mV) <sup>B</sup>	95.4	94.7	91.2	

#### **Modulation Calibration Parameters**

UID	Communication System Name		Α	В	с	D	VR	Unc <sup>E</sup>
			dB	dBõV		dB	mV	(k=2)
0	CW	X	0.0	0.0	1.0	0.00	130.7	±3.5 %
		Y	0.0	0.0	1.0		146.7	
		Z	0.0	0.0	1.0		132.5	

Note: For details on UID parameters see Appendix.

#### **Sensor Model Parameters**

	C1 fF	C2 fF	α V <sup>-1</sup>	T1 ms.V <sup>-2</sup>	T2 ms.V⁻¹	T3 ms	T4 V <sup>-2</sup>	T5 V <sup>-1</sup>	T6
X	41.43	313.6	36.54	8.525	0.381	5.024	0.000	0.467	1.003
Y	<u>41.67</u>	315.5	36.57	10.32	0.000	5.055	0.334	0.426	1.004
Z	51.58	393.9	37.05	11.42	0.427	5.066	0.000	0.561	1.006

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

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

<sup>B</sup> Numerical linearization parameter: uncertainty not required. <sup>E</sup> Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the

f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	41.9	0.89	10.60	10.60	10.60	0.53	0.80	± 12.0 %
835	41.5	0.90	10.08	10.08	10.08	0.41	0.98	± 12.0 %
1750	40.1	1.37	8.66	8.66	8.66	0.41	0.82	± 12.0 %
1900	40.0	1.40	8.37	8.37	8.37	0.28	1.19	± 12.0 %
2300	39.5	1.67	8.02	8.02	8.02	0.35	0.80	± 12.0 %
2450	39.2	1.80	7.68	7.68	7.68	0.33	0.89	± 12.0 %
2600	39.0	1.96	7.42	7.42	7.42	0.40	0.80	± 12.0 %

#### Calibration Parameter Determined in Head Tissue Simulating Media

<sup>c</sup> Frequency validity above 300 MHz of  $\pm$  100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to  $\pm$  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  $\pm$  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  $\pm$  110 MHz. <sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to  $\pm$  10% if liquid compensation formula is applied to

measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. <sup>6</sup> 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.

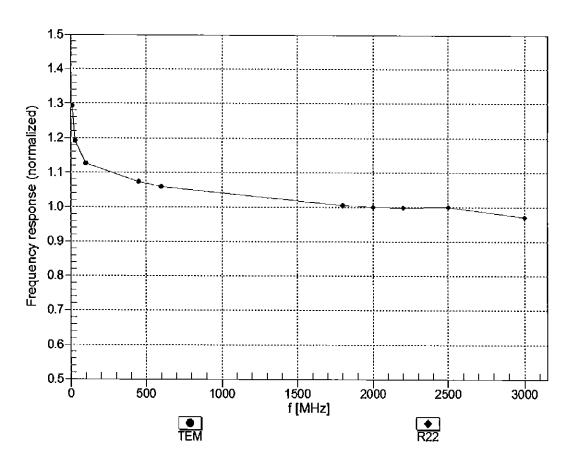
f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	55.5	0.96	10.19	10.19	10.19	0.33	1.02	± 12.0 %
835	55.2	0.97	9.95	9.95	9.95	0.50	0.80	± 12.0 %
1750	53.4	1.49	8.32	8.32	8.32	0.39	0.86	± 12.0 %
1900	53.3	1.52	7.98	7.98	7.98	0.44	0.86	± 12.0 %
2300	52.9	1.81	7.85	7.85	7.85	0.44	0.84	± 12.0 %
2450	52.7	1.95	7.69	7.69	7.69	0.37	0.89	± 12.0 %
2600	52.5	2.16	7.43	7.43	7.43	0.28	0.99	± 12.0 %

#### Calibration Parameter Determined in Body Tissue Simulating Media

<sup>c</sup> 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 ( $\varepsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to

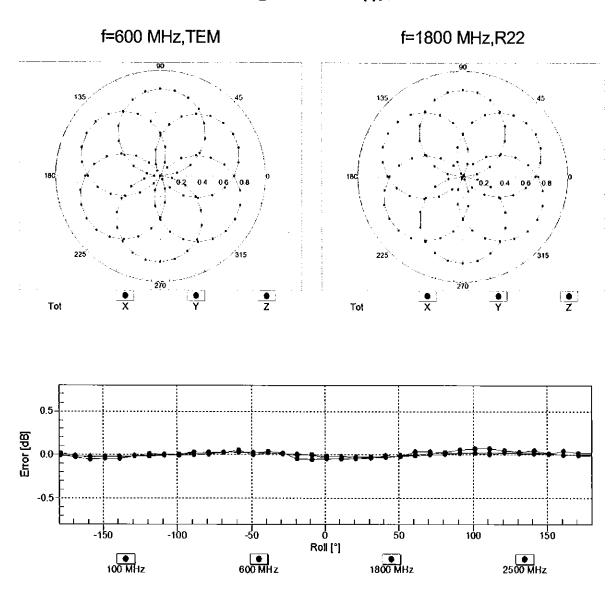
<sup>6</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. <sup>6</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

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



### Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

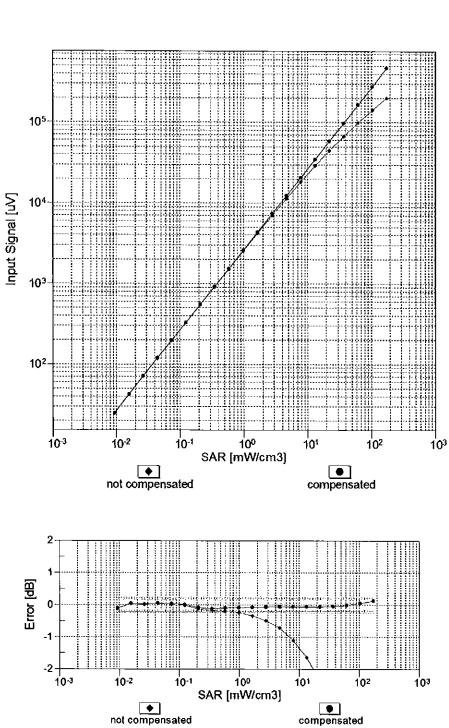
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)



## Receiving Pattern ( $\phi$ ), $\vartheta = 0^{\circ}$

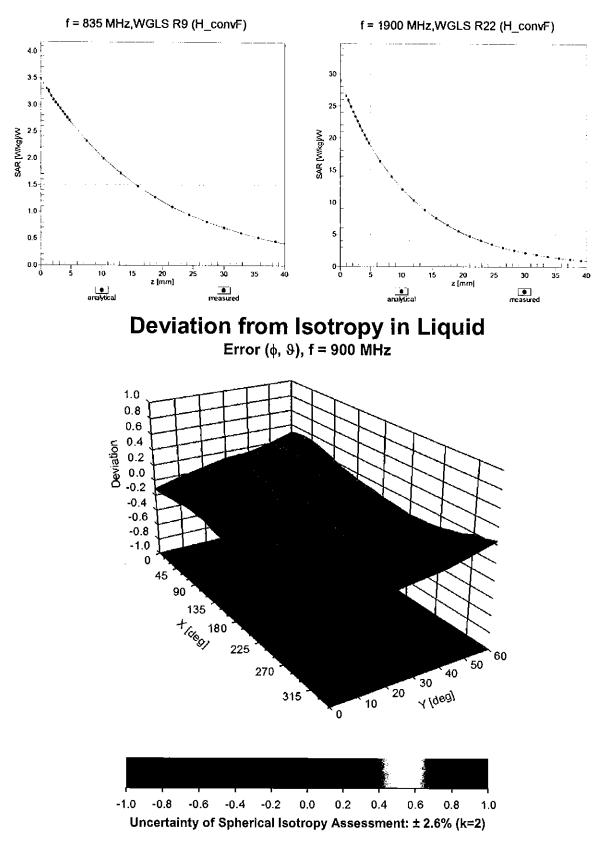
Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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### Dynamic Range f(SAR<sub>head</sub>) (TEM cell , f<sub>eval</sub>= 1900 MHz)

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



## **Conversion Factor Assessment**

#### **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	1.2
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 dBõV	С	D dB	VR mV	Max Unc <sup>E</sup> (k=2)
0	CW	X	0.00	0.00	1.00	0.00	130.7	± 3.5 %
		Y Z	0.00	0.00	1.00		146.7 132.5	
10010-	SAR Validation (Square, 100ms, 10ms)	<u> </u>	0.00 2.07	0.00 65.38	9.86	10.00	20.0	± 9.6 %
CAA	OAR Validation (Oquare, Tooms, Toms)		2.07	00.00	0.00	10.00	20.0	2010 /0
		Y	1.71	64.71	9.07	_	20.0	
		Ζ	3.44	71.14	12.92		20.0	
10011- CAB	UMTS-FDD (WCDMA)	X	1.05	67.82	15.62	0.00	150.0	± 9.6 %
		Y Z	<u>1.11</u> 1.02	68.91 66.59	16.28 14.94		150.0 150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.16	63.70	15.28	0.41	150.0	± 9.6 %
		Y	1.18	64.10	15.65		150.0	
		Ζ	1.17	63.41	15.09		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	4.78	66.61	17.05	1.46	150.0	± 9.6 %
		Y Z	4.80	66.74	17.21		150.0 150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	4.93 100.00	66.52 111.37	<u>17.11</u> 25.72	9.39	50.0	± 9.6 %
		Y	100.00	111.58	25.35		50.0	
		Ζ	100.00	117.02	28.59		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	110.83	25.53	9.57	50.0	±9.6 %
		Y Z	1707.76 100.00	<u>142.54</u> 116.46	31.32 28.39		50.0 50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	111.84	24.81	6.56	60.0	±9.6 %
0/10		Y	100.00	114.48	25.68		60.0	
		Z	100.00	118.35	28.09		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	3.46	65.17	23.20	12.57	50.0	± 9.6 %
		Y Z	5.27	82.06 65.78	33.95 23.81		50.0 50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	<u>3.61</u> 6.19	83.69	29.67	9.56	60.0	± 9.6 %
		Y	7.27	90.43	33.46		60.0	[
		Z	7.46	87.49	31.34		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	114.23	25.06	4.80	80.0 80.0	± 9.6 %
		Y Z	100.00	119.65 121.09	27.19 28.48	<u> </u>	80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	118.39	26.12	3.55	100.0	±9.6 %
		Y	100.00	127.35	29.74		100.0	
		Z	100.00	125.00	29.42		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)		4.31	75.70	25.15	7.80	80.0	± 9.6 %
L		Y Z	4.62 5.10	78.76 78.80	26.60		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	110.42	23.70	5.30	70.0	± 9.6 %
		Y	100.00	113.76	24.95		70.0	
1000		Z	100.00	117.44	27.22	1 00	70.0	± 9.6 %
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X Y	100.00	118.50	24.77 30.37	1.88	100.0	± 9.0 %
L			100.00	126.29	28.44	+	100.0	+

10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	133.47	29.67	1.17	100.0	± 9.6 %
		Y	100.00	157.48				<u> </u>
		Z	100.00	136.04	<u>38.89</u> 31.29		100.0	<u> </u>
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	x	8.66	91.15	24.16	5.30	100.0 70.0	± 9.6 %
		Y	61.92	124.81	33.89		70.0	+
10001		Z	18.44	105.53	29.79		70.0	<u> </u>
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	2.66	76.47	17.66	1.88	100.0	± 9.6 %
		Y	4.91	85.76	21.28		100.0	
10035-	IEEE 802.15.1 Bluetooth (PI/4-DQPSK,	Z	3.14	79.12	19.77		100.0	
	DH5)	X	1.87	72.76	15.96	1.17	100.0	± 9.6 %
		Z	2.71	78.22	18.36		100.0	I
10036-	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	$\frac{2}{x}$	2.01 12.89	73.50	17.25		100.0	L
CAA		Y	12.09	97.56 133.04	26.18	5.30	70.0	± 9.6 %
		Z	33.52		35.90		70.0	<u> </u>
10037-	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	2.40	115.95	32.67	4.00	70.0	<u> </u>
CAA		Y Y	4.17	75.20	17.16	1.88	100.0	± 9.6 %
		Z	<u>4.17</u> 2.91	83.65	20.57		100.0	L
10038-	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)		1.89	78.15 73.11	19.38	4 4	100.0	<u> </u>
CAA		Y	2.73	78.67	16.24 18.67	1.17	100.0	± 9.6 %
		Ż	2.03	73.85			100.0	
10039-	CDMA2000 (1xRTT, RC1)	X	1.93	73.30	17.51 15.79		100.0	
CAB		Y	2.16			0.00	150.0	± 9.6 %
		Z	1.82	74.82	16.50		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	100.00	71.39 108.18	<u>15.74</u> 23.51	7.78	1 <u>50.0</u> 50.0	± 9.6 %
		Y	100.00	108.75	23.44		50.0	
		Ż	100.00	113.77	26.32			
1004 <b>4-</b> CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	97.63	1.20	0.00	50.0 150.0	±9.6 %
		Y	0.00	97.90	0.75		150.0	
		Z	0.00	95.09	2.63		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	29.38	92.85	22.01	13.80	25.0	±9.6%
		Γ <u>Υ</u>	100.00	106.19	24.33	·	25.0	
40040		Z	100.00	113.54	28.60		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)		92.32	108.50	25.07	10.79	40.0	± 9.6 %
	<u>                                     </u>	Y	100.00	108.13	24.14		40.0	
10056-		Z	100.00	114.66	27.93		40.0	
CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	28.80	103.53	27.62	9.03	50.0	± 9.6 %
		Y	100.00	125.87	33.73		50.0	
10058-	EDCE EDD (TDMA CDOIL THE	Z	90.56	125.80	34.77		50.0	
DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	×	3.55	72.15	22.79	6.55	100.0	± 9.6 %
	t————	Y	3.72	74.09	24.21		100.0	
10059-	IEEE 802 11h WIEL2 4 OLI- (DDDDD - 2	Z	4.11	74.59	23.97		100.0	
CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.17	64.52	15.76	0.61	110.0	±9.6 %
	<u>+</u>	Y	1.20	65.09	16.25		110.0	
10060-	IEEE 802 11h W/EL 2 4 01 - (2000	Z	1.19	64.38	15.68		110.0	
CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	5.38	97.28	26.54	1.30	110.0	± 9.6 %
		YZ	<u>94.12</u> 7.25	145.74	39.06		110.0	
				100.99	27.69			

10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	2.03	75.84	20.79	2.04	110.0	± 9.6 %
		Y	2.53	80.86	23.32		110.0	
		Z	2.46	78.49	22.05		110.0	
10062- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.60	66.68	16.54	0.49	100.0	±9.6 %
		Y	4.62	66.77	16.65		100.0	
		Z	4.74	66.54	16.54		100.0	
10063- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.61	66.74	16.62	0.72	100.0	±9.6 %
		Y	4.63	66.85	16.75		100.0	
		Z	4.75	66.63	16.64		100.0	
10064- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.88	66.97	16.83	0.86	100.0	±9.6 %
		Y	4.90	67.08	16.96		100.0	
		Z	5.06	66.93	16.89		100.0	
10065- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.74	66.82	16.90	1.21	100.0	± 9.6 %
		Y	4.76	66.95	17.05		10 <u>0.0</u>	
		Z	4.91	66.81	16.98		100.0	
10066- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.74	66.80	17.04	1.46	100.0	± 9.6 %
		Y	4.77	66.94	17.21		100.0	
		Z	4.93	66.83	17.15		100.0	
10067- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.03	66.98	17.46	2.04	100.0	± 9.6 %
		Y	5.05	67.14	17.66		100.0	
		Z	5.21	66.94	17.57		100.0	
10068- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.05	66.91	17.63	2.55	100.0	± 9.6 %
		Y	5.07	67.08	17.84		100.0	
		Z	5.27	67.04	17.82		100.0	
10069- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.12	66.93	17.81	2.67	100.0	± 9.6 %
		Υ	5.15	67.10	18.04		100.0	
		Z	5.34	66.99	17.99		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.86	66.65	17.32	1.99	100.0	± 9.6 %
		Y	4.89	66.79	17.50		100.0	
		Z	5.01	66.60	17.41		100.0	<u> </u>
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.82	66.89	17.50	2.30	100.0	± 9.6 %
		ΤΥ.	4.84	67.05	17.70		100.0	
		Z	4.99	66.92	17.63		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	4.86	67.00	17.79	2.83	100.0	± 9.6 %
		Y	4.89	67.17	18.02		100.0	L
		Z	5.04	67.03	17.94	L	100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.85	66.87	17.91	3.30	100.0	± 9.6 %
		Y	4.86	67.04	18.15	L	100.0	<u> </u>
		Z	5.01	66.88	18.08		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	4.86	66.89	18.16	3.82	90.0	± 9.6 %
		ŢΥ	4.87	67.06	18.42	<b>_</b>	90.0	ļ
		Z	5.04	67.00	18.40	<u> </u>	90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	4.88	66.70	18.29	4.15	90.0	± 9.6 %
		Y	4.89	66.85	18.55		90.0	ļ
		Z	5.03	66.71	18.47	<u> </u>	90.0	L
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	4.91	66.76	18.38	4.30	90.0	± 9.6 %
<u> </u>		Y	4.91	66.91	18.65		90.0	
		Z	5.05	66.76	18.56		90.0	

10081- CAB	CDMA2000 (1xRTT, RC3)	X	0.83	66.43	12.40	0.00	150.0	± 9.6 %
		Y	0.90	67.40	10.00	┣──-		<u> </u>
			0.90	67.46 65.72	13.02	<u> </u>	150.0	<u> </u>
10082-	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-	$\frac{1}{x}$	0.60	60.00	<u>12.74</u> 4.03	477	150.0	
CAB	DQPSK, Fullrate)		0.00	00.00	4.03	4.77	80.0	± 9.6 %
·		Y	1.74	63.67	4.99	<u> </u>	80.0	+
40000		Z	0.50	57.10	2.51	+	80.0	+
10090-	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	111.84	24.82	6.56	60.0	± 9.6 %
DAC	<u> </u>					0.00	00.0	1 2 3.0 %
	+	Y	100.00	114.47	25.69	<u> </u>	60.0	<u> </u>
10097-		Z	100.00	118.36	28.12		60.0	·
CAB	UMTS-FDD (HSDPA)	X	1.87	68.36	15.98	0.00	150.0	± 9.6 %
		Y	1.00					
		- <u> </u>	<u>1.92</u> 1.83	68.79	16.27		150.0	[
10098-	UMTS-FDD (HSUPA, Subtest 2)	- <u>-</u> -	1.83	67.16	15.53		150.0	L
CAB		^	1.03	68.30	15.96	0.00	150.0	± 9.6 %
		Y	1.88	68.76	16.25	ł	150.0	┼───
10099-		Z	1.79	67.10	15.49	<u> </u>	150.0	<u> </u>
DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	6.23	83.81	29.72	9.56	60.0	± 9.6 %
		Y	7.34	90.66	22 54		+	<u> </u>
		z	7.51	90.66 87.64	<u>33.54</u> 31.39	┝───	60.0	I
10100-	LTE-FDD (SC-FDMA, 100% RB, 20	$\frac{1}{x}$	3.10	70.42	<u>31.39</u> 16.91	0.00	60.0	
CAC	MHz, QPSK)		0.10	10.42	10.91	0.00	150.0	± 9.6 %
		Y	3.17	70.79	17.14		150.0	<u> </u>
10101-		Z	3.14	69.95	16.56		150.0	<u> </u>
CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.21	67.53	16.05	0.00	150.0	± 9.6 %
		Y	3.24	67.71	40.40			
		z -	3.24	67,33	16.18 15.89		150.0	
10102-	LTE-FDD (SC-FDMA, 100% RB, 20	X	3.31	67.53	16.15	0.00	150.0 150.0	+0.0
CAC	MHz, 64-QAM)			01.00	10.10	0.00	150.0	± 9.6 %
	+	Y	3.34	67.67	16.26		150.0	
10103-		Z	3.39	67.31	16.00		150.0	
CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	5.23	73.47	19.72	3.98	65.0	± 9.6 %
		Τ <sub>Υ</sub>	5.84	75.95	- 04 04			
		Ż	5.88	74.83	21.01		65.0	
10104-	LTE-TDD (SC-FDMA, 100% RB, 20	X	5.46	71.98	20.39 19.77		65.0	
CAC	MHz, 16-QAM)		0.40	71.50	19.77	3.98	65.0	± 9.6 %
		Y	5.63	73.01	20.49		65.0	
0105-		Z	6.00	73.07	20.39		65.0	
CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	5.42	71.61	19.91	3.98	65.0	± 9.6 %
			<b> </b>					_ +. • /0
		Y	5.43	72.06	20.36		65.0	
0108-	LTE-FDD (SC-FDMA, 100% RB, 10	Z X	<u>5.47</u> 2.70	71.05	19.77		65.0	
<u>CAD</u>	MHz, QPSK)		2.70	69.72	16.76	0.00	150.0	± 9.6 %
		† <sub>₹</sub> †	2.76	70.10	16.99		-150 0	
0.46-		Ż	2.75	69.19	16.39		150.0	
0109-	LTE-FDD (SC-FDMA, 100% RB, 10	TX	2.86	67.48	15.96	0.00	<u>150.0</u> 150.0	+0.04
AD	MHz, 16-QAM)				10.00	0.00	150.0	± 9.6 %
		ΓΥ	2.89	67.67	16.11		150.0	
0110-	LTE-EDD (SC EDMA 4000/ DD ELV)	Z	2.94	67.16	15.80		150.0	
AD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.18	68.93	16.34	0.00	150.0	± 9.6 %
		Y	2.24	69.40	16.63		450.0	
		z	2.24	68.24	15.99		150.0	
0111-	LTE-FDD (SC-FDMA, 100% RB, 5 MHz,		2.61	68.71	16.36	0.00	150.0	1000
AD	16-QAM)				10.00	0.00	150.0	± 9.6 %
		Y	2.63	68.84	16.47		150.0	
		Z	2.65	67.91				

40440								
10112- CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	2.99	67.52	16.03	0.00	150.0	± 9.6 %
		Y	3.01	67.67	16.15		150.0	
		Z	3.06	67.16	15.86		150.0	
10113- CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.77	68.89	16.50	0.00	150.0	±9.6 %
		Y	2.78	68.97	16.58		150.0	
		Z	2.81	68.06	16.24		150.0	
10114- CAB	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.09	67.23	16.55	0.00	150.0	±9.6 %
		Y	5.10	67.28	16.60		150.0	
		Z	5.19	67.11	16.46		150.0	
10115- CAB	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.34	67.29	16.58	0.00	150.0	± 9.6 %
		Y	5.35	67.33	16.63		150.0	
		Z	5.51	67.33	16.58		150.0	
10116- CAB	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.18	67.42	16.57	0.00	150.0	± 9.6 %
		Y	5.19	67.47	16.62		150.0	
		Z	5.30	67.34	16.50		150.0	
10117- CAB	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.06	67.11	16.50	0.00	150.0	± 9.6 %
		Y	5.07	67.16	16.56		150.0	
		Z	5.16	66.99	16.42		150.0	
10118- CAB	IEEE 802.11n (HT Mixed, 81 Mbps, 16- QAM)	X	5.42	67.49	16.69	0.00	150.0	± 9.6 %
		Y	5.44	67.54	16.74		150.0	
		Z	5.60	67.55	16.70		150.0	
10119- CAB	IEEE 802.11n (HT Mixed, 135 Mbps, 64- QAM)	X	5.16	67.38	16.56	0.00	150.0	± 9.6 %
		Y	5.17	67.43	16.62		150.0	
		Z	5.27	67.27	16.48		150.0	
10140- CAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.34	67.53	16.06	0.00	150.0	±9.6 %
		Y	3.37	67.68	16.18		150.0	
		Z	3.42	67.31	15.91		150.0	
10141- CAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.47	67.67	16.25	0.00	150.0	± 9.6 %
		Y	3.49	67.79	16.35		150.0	
		Z	3.55	67.42	16.09		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	1.97	69.09	15.95	0.00	150.0	± 9.6 %
		Y	2.03	69.63	16.28		150.0	
		Z	2.02	68.20	15.69		150.0	ļ
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.49	69.65	15.98	0.00	150.0	±9.6 %
		Y	2.52	69.83	16.12	┣ ──	150.0	↓
		Z	2.51	68.62	15.86		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	×	2.16	66.67	13.99	0.00	150.0	± 9.6 %
		Y	2.21	66.99	14.22	I	150.0	<u> </u>
		Z	2.30	66.43	14.30		150.0	
10145- CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.07	64.11	10.67	0.00	150.0	± 9.6 %
		<u>Y</u>	1.11	64.57	11.01		150.0	<u> </u>
		Z	1.31	65.51	12.40	1	150.0	
10146- CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	1.34	62.65	9.02	0.00	150.0	± 9.6 %
		Y	1.43	63.27	9.42		150.0	ļ
		Z	2.01	66.35	12.18		150.0	
10147- CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	1.45	63.47	9.57	0.00	150.0	± 9.6 %
		Y	1.57	64.27	10.06		150.0	
		Z	2.34	68.34	13.28		150.0	

10149- CAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.87	67.55	16.01	0.00	150.0	± 9.6 %
		Ϋ́	2.90	67.73	16.15	<u> </u>	150.0	╆╴─────
		Z	2.95	67,22	15.84	<u> </u>	150.0	╆╴───-
10150- CAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.00	67.58	16.08	0.00	150.0	± 9.6 %
		Y	3.02	67.73	16.20		150.0	1
		Z	3.07	67.21	15.90		150.0	
10151- CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	×	5.65	76.57	21.08	3.98	65.0	± 9.6 %
		Y	<u>6.17</u>	78.83	22.29		65.0	
10152-		Z	6.35	77.82	21.74		65.0	
CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	4.98	71.84	19.37	3.98	65.0	± 9.6 %
	·	Y	5.18	73.09	20.20		65.0	
10153-		Z	5.53	73.00	20.11		65.0	
CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	5.35	72.93	20.23	3.98	65.0	± 9.6 %
		Y	5.53	74.06	20.99		65.0	
10154-		<u>Z</u>	5.88	73.94	20.90		65.0	
CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.24	69.40	16.63	0.00	150.0	± 9.6 %
		Y	2.29	69.81	16.88		150.0	
10155-		Z	2.29	68.69	16.27		150.0	<u> </u>
CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	×	2.62	68.74	16.38	0.00	150.0	± 9.6 %
	<u> </u>	Y	2.64	68.87	16.49		150.0	
10156-		Z	2.65	67.91	16.11		150.0	F
CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	Х	1.81	69.21	15.68	0.00	150.0	± 9.6 %
	<u> </u>	Y	1.88	69.80	16.04		150.0	i
10157-		Z	1.87	68.31	15.53		150.0	
CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.01	67.27	13.98	0.00	150.0	±9.6 %
		Y	2.06	67.66	14.24		150.0	
10158-		Z	2.13	67.00	14.37		150.0	
CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.78	68.97	16.55	0.00	150.0	± 9.6 %
	<u> </u>	Y	2.79	69.05	16.63		150.0	
		Z	2.81	68.12	16.28		150.0	
10159- CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.12	67.76	14.27	0.00	150.0	±9.6%
		Y	2.17	68.10	14.50		150.0	
10100		Z	2.25	67.49	14.68		150.0	
10160- CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.73	68.96	16.55	0.00	150.0	± 9.6 %
	<u> </u>	Y	2.78	69.27	16.76		150.0	
10161-		Z	2.78	68.34	16.22		150.0	
CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.89	67.56	16.00	0.00	150.0	± 9.6 %
<u> </u>	<u> </u>	Y	2.92	67.72	16.12		150.0	
10162-		Z	2.97	67.14	15.84		150.0	
CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.00	67.76	16.13	0.00	150.0	± 9.6 %
	<u>+</u>	Y	3.03	67.89	16.24		150.0	
10166-		Ζ	3.08	67.27	15.94		150.0	
CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	Х	3.29	68.55	18.62	3.01	150.0	± 9.6 %
		Y	3.39	69.14	19.00		150.0	
10167-		Z	3.56	68.77	18.74		150.0	
CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	x	3.85	70.83	18.84	3.01	150.0	±9.6 %
		Y	4.06	71.87	19.39		150.0	
		Z						

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10168- CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	x	4.31	73.34	20.36	3.01	150.0	± 9.6 %
		Y	4.51	74.19	20.77		150.0	
		Z	4.72	73.40	20.38		150.0	
10169- CAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	2.65	67.07	17.95	3.01	150.0	± 9.6 %
		Y	2.76	67.90	18.46		150.0	
		Z	2.95	68.18	18.47		150.0	
10170- CAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	3.35	71.83	19.98	3.01	150.0	± 9.6 %
		Y	3.58	73.08	20.56		150.0	
		Ζ	3.90	73.37	20.58		150.0	
10171- AAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	2.80	68.11	17.24	3.01	150.0	±9.6 %
		Y	3.01	69.49	17.99		150.0	
		Z	3.23	69.44	17.85		150.0	
10172- CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.65	76.31	22.99	6.02	65.0	±9.6 %
		Y	5.48	85.89	27.40		65.0	
		Z	5.55	83.03	25.87	L	65.0	
10173- CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	6.66	85.15	24.55	6.02	65.0	± 9.6 %
		Y	10.56	95.03	28.43		65.0	
		Z	12.26	94.72	28.10		65.0	
10174- CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	4.93	79.32	21.92	6.02	65.0	±9.6 %
		Y	8.98	90.91	26.48		65.0	
		Z	8.81	87.78	25.30		65.0	
10175- CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	2.62	66.79	17.70	3.01	150.0	±9.6%
		Y	2.73	67.64	18.24		150.0	
		Z	2.91	67.87	18.21		150.0	
10176- CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	3.35	71.86	19.99	3.01	150.0	± 9.6 %
		Y	3.58	73.10	20.58		150.0	
		Z	3.90	73.39	20.59		150.0	
10177- CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	2.64	66.92	17.79	3.01	150.0	± 9.6 %
		Y	2.75	67.76	18.31		150.0	
		Z	2.94	68.03	18.32		150.0	
10178- CAD	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	3.33	71.68	19.88	3.01	150.0	±9.6 %
		Y	3.56	72.95	20.49		150.0	
		Z	3.86	73.15	20.45		150.0	
10179- CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	3.04	69.83	18.46	3.01	150.0	±9.6 %
		Y	3.27	71.21	19.16		150.0	
		Z	3.53	71.24	19.06		150.0	
10180- CAD	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	2.79	68.06	17.20	3.01	150.0	±9.6 %
		Y	3.00	69.44	17.95		150.0	
		Z	3.23	69.37	17.80		150.0	
10181- CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	2.64	66.91	17.79	3.01	150.0	± 9.6 %
		Y	2.74	67.75	18.31		150.0	
		Z	2.93	68.01	18.31		150.0	
10182- CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	3.32	71.66	19.87	3.01	150.0	± 9.6 %
		Y	3.55	72.93	20.48		150.0	
<u>}</u>		Z	3.85	73.13	20.44		150.0	
10183- AAB	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	2.79	68.04	17.19	3.01	150.0	± 9.6 %
		ŤΥ	3.00	69.42	17.94		150.0	1
⊢· · · ──		Ż	3.22	69.35	17.79	1	150.0	<b>I</b>

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10184- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	×	2.65	66.95	17.81	3.01	150.0	± 9.6 %
		Y	2.75	67.79	18.33	<u> </u>	150.0	+
		Z	2.95	68.05	18.33	<u> </u>	150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	3.34	71.72	19.91	3.01	150.0	± 9.6 %
		Y	3.57	72.99	20.51	<u> </u>	150.0	
		Z	3.87	73.20	20.48		150.0	+
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	X	2.80	68.09	17.22	3.01	150.0	± 9.6 %
	+	Y	3.01	69.48	17.97		150.0	
10187-		Z	3.23	69.41	17.82		150.0	<u> </u>
CAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	2.66	67.00	17.88	3.01	150.0	±9.6 %
		Y	2.76	67.84	18.40		150.0	
10188-		Z	2.95	68.09	18.39		150.0	
CAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)		3.43	72.31	20.28	3.01	150.0	± 9.6 %
	<u> </u>	Y	3.66	73.53	20.84		150.0	
10189-		Z	4.00	73.86	20.87		150.0	
AAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	2.85	68.45	17.48	3.01	150.0	± 9.6 %
		Y	3.07	69.84	18.22		150.0	
10193-		<u>Z</u>	3.30	69.81	18.09		150.0	1
CAB	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.48	66.73	16.24	0.00	150.0	± 9.6 %
	<u> </u>	Y	4.49	66.78	16.30		150.0	
10194-		Z	4.58	66.49	16.16		150.0	
CAB	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.63	67.01	16.37	0.00	150.0	± 9.6 %
	<u> </u>	Y	4.65	67.06	16.43		150.0	
10195-		Z	4.76	66.82	16.28		150.0	<u> </u>
CAB	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.67	67.04	16.38	0.00	150.0	± 9.6 %
		Y	4.69	67.09	16.44		150.0	
10196-		Z	4.80	66.85	16.30		150.0	<u>†                                    </u>
CAB	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.47	66.77	16.24	0.00	150.0	± 9.6 %
	<u> </u>	Y	4.48	66.82	16.30		150.0	<u> </u>
10107		Z	4.59	66.56	16.19		150.0	<u>                                     </u>
10197- CAB	IEEE 802.11n (HT Mixed, 39 Mbps, 16- QAM)	X	4.64	67.02	16.38	0.00	150.0	± 9.6 %
		Y	4.66	67.08	16.44	· · · · ·	150.0	
10198-		Z	4.78	66.84	16.30		150.0	
CAB	IEEE 802.11n (HT Mixed, 65 Mbps, 64- QAM)	X	4.67	67.05	16.39	0.00	150.0	± 9.6 %
	<u> </u>	Y	4.68	67.10	16.45		150.0	
10219-		Z	4.81	66.86	16.31		150.0	
CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	×	4.42	66.79	16.21	0.00	150.0	± 9.6 %
		Y	4.44	66.84	16.27		150.0	
10220-		Z	4.54	66.57	16.15		150.0	
CAB	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16- QAM)	X	4.64	66.99	16.36	0.00	150.0	± 9.6 %
		Y	4.65	67.04	16.42		150.0	
0221-		Z	4.77	66.82	16.29		150.0	
CAB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64- QAM)	×	4.68	66.98	16.38	0.00	150.0	± 9.6 %
		Y	4.69	67.03	16.44		150.0	
0222-		Z	4.81	66.80	16.30		150.0	
11///-	IEEE 802.11n (HT Mixed, 15 Mbps,	X	5.03	67.11	16.49	0.00	150.0	± 9.6 %
	BPSK)			1	1	I		
CAB	<u>BPSK)</u>	Y	5.04	67.15	16.55		150.0	

10223-	IEEE 802.11n (HT Mixed, 90 Mbps, 16-	X	5.33	67.33	16.62	0.00	150.0	± 9.6 %
CAB	QAM)					0.00		10.0 /8
		Y	5.34	67.38	16.68	-	150.0	
10001		Z	5.45	67.21	16.54		150.0	
10224- CAB	IEEE 802.11n (HT Mixed, 150 Mbps, 64- QAM)	×	5.07	67.22	16.48	0.00	150.0	± 9.6 %
		Y	5.09	67.26	16.53	-	150.0	
		Z	5.18	67.11	16.40		150.0	]
10225- CAB	UMTS-FDD (HSPA+)	Х	2.76	66.33	15.32	0.00	150.0	± 9.6 %
		Y	2.78	66.46	15.44		150.0	
		Z	2.85	65.93	15.34		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	7.05	86.26	25.03	6.02	65.0	± 9.6 %
<u> </u>		Y	11.33	96.43	28.97		65.0	
		Z	13.18	96.17	28.66		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	7.07	85.23	24.04	6.02	65.0	± 9.6 %
		Y	11.45	95.09	27.83		65.0	
		Z	12.76	94.16	27.40		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	4.84	82.15	25.37	6.02	65.0	± 9.6 %
		Y	6.17	88.64	28.46		65.0	
		Z	7.76	90.12	28.51		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	6.71	85.26	24.59	6.02	65.0	± 9.6 %
		Y	10.65	95.13	28.47		65.0	
		Z	12.36	94.84	28.14		65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	X	6.68	84.20	23.61	6.02	65.0	± 9.6 %
		Y	10.65	93.73	27.33		65.0	
		Z	11.94	92.89	26.92		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	4.67	81.40	24.99	6.02	65.0	± 9.6 %
		Y	5.94	87.77	28.07		65.0	
		Z	7.43	89.17	28.10		65.0	
10232- CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	6.69	85.24	24.58	6.02	65.0	± 9.6 %
		Y	10.63	95.12	28.47		65.0	ľ
		Z	12.34	94.82	28.14		65.0	
10233- CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	6.66	84.17	23.60	6.02	65.0	± 9.6 %
		Y	10.62	93.69	27.32		65.0	
		Z	11.91	92.86	26.91	i	65.0	1
10234- CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	4.54	80.75	24.63	6.02	65.0	± 9.6 %
		Y	5.76	87.05	27.69		65.0	
		Z	7.17	88.32	27.68		65.0	
10235- CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	6.69	85.26	24.59	6.02	65.0	± 9.6 %
		Ý	10.64	95.16	28.48		65.0	
		Z	12.35	94.85	28.15		65.0	
10236- CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	×	6.73	84.30	23.64	6.02	65.0	± 9.6 %
		Y	10.78	93.91	27.38		65.0	
		Z	12.05	93.03	26.96		65.0	
10237- CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	4.67	81.42	25.00	6.02	65.0	± 9.6 %
		Y	5.94	87.83	28.10		65.0	
		Z	7.43	89.21	28.12		65.0	
10238- CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	6.68	85.21	24.57	6.02	65.0	± 9.6 %
<i>Q,</i> (Q		Y	10.60	95.09	28.46	1	65.0	<u> </u>
	1	Ż	12.31	94.79	28.13	1	65.0	1

CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz,		6.64	84.13	23.58	6.02	65.0	± 9.6 %
	64-QAM)	Y						
			10.57 11.87	93.64 92.82	27.30	<u> </u>	65.0	
10240- CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	4.66	81.38	26.90 24.99	6.02	65.0 65.0	± 9.6 %
		Y-	5.92	87.78	28.08		65 0	
		Ż	7.41	89.16	28.00		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	<u> </u>	6.49	77.69	23.88	6.98	65.0 65.0	± 9.6 %
		Y	7.06	80.22	25.34	<u> </u>	65.0	
		Z	7.33	78.75	24.61		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	5.69	74.96	22.63	6.98	65.0	± 9.6 %
		Y	6.72	79.20	24.84		65.0	
40040		Ζ	6.48	76.10	23.39		65.0	<u> </u>
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	5.22	73.93	23.04	6.98	65.0	± 9.6 %
		Y	5.37	75.23	24.06		65.0	
10244-		Z	5.30	72.76	22.72		65.0	<u> </u>
CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	4.03	70.70	15.63	3.98	65.0	± 9.6 %
	+ <u> </u>	Y	4.63	73.27	17.01		65.0	<u> </u>
10245-		Z	5.80	76.12	19.17		65.0	
CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	3.94	70.12	15.32	3.98	65.0	± 9.6 %
	+	Y	4.47	72.48	16.60		65.0	<u> </u>
10246-		Z	5.67	75.49	18.85		65.0	
CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	4.17	75.16	18.15	3.98	65.0	± 9.6 %
	<u>+</u>	Y	5.29	79.64	20.23		65.0	
10247-		Z	5.81	80.17	21.10		65.0	F
CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	4.10	71.58	17.29	3.98	65.0	± 9.6 %
	+	Y	4.43	73.43	18.37		65.0	1
10248-		Z	4.92	74.07	19.21		65.0	
CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	4.07	70.96	16.98	3.98	65.0	± 9.6 %
		<u>Y</u>	4.37	72.65	17.99		65.0	[
10249-		Z	4.90	73.42	18.88		65.0	
CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	5.33	79.24	20.92	3.98	65.0	± 9.6 %
	+	Y	6.73	84.01	23.05		65.0	
10250-	LTE-TDD (SC-FDMA, 50% RB, 10 MHz,	Z	6.62	82.34	22.76		65.0	
	16-QAM)	X	4.99	74.32	20.40	3.98	65.0	± 9.6 %
	+	Y	5.24	75.79	21.30		65.0	
0251- CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Z X	5.59 4.75	75.60 72.14	21.35 19.02	3.98	65.0 65.0	± 9.6 %
							_	
<u> </u>	·	Y	4.99	73.56	19.92		65.0	
0252-	LTE-TDD (SC-FDMA, 50% RB, 10 MHz,	Z	5.35	73.44	20.02		65.0	
CAC	QPSK)	X	5.62	79.05	22.01	3.98	65.0	± 9.6 %
	<u> </u>	Y Z	6.48	82.42	23.65		65.0	
0253- CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	<u>×</u>	<u>6.49</u> 4.91	<u>80.72</u> 71.43	22.96 19.12	3.98	65.0 65.0	±9.6 %
		Y	5.09	72.60	10.00			
		Z	5.40	72.60 72.41	19.93		65.0	
0254- CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	5.23	72.40	19.86 19.88	3.98	<u>65.0</u> 65.0	± 9.6 %
<u>AC</u>								
CAC		Y	5.41	73.49	20.63		65.0	

10255- CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	5.37	75.82	20.95	3.98	65.0	± 9.6 %
-		Y	5.81	77.90	22.11		65.0	
		Z	5.98	76.90	21.60		65.0	
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	2.95	66.44	12.43	3.98	65.0	±9.6 %
		Y	3.25	68.14	13.47		65.0	
		Z	4.63	72.57	16.66		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	2.90	65.89	12.05	3.98	65.0	±9.6 %
		Y	3.14	67.36	12.98		65.0	
		Z	4.49	71.73	16.18		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	2.90	69.51	14.64	3.98	65.0	± 9.6 %
		Y	3.44	72.54	16.25		65.0	
-		Z	4.52	75.89	18.60		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	4.46	72.72	18.47	3.98	65.0	± 9.6 %
		Y	4.78	74.47	19.50		65.0	
		Z	5.19	74.62	19.97		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	4.49	72.43	18.33	3.98	65.0	± 9.6 %
		Y	4.79	74.08	19.32		65.0	
		Z	5.22	74.34	19.84		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	5.17	78.27	21.02	3.98	65.0	± 9.6 %
		Y	6.16	82.12	22.85		65.0	
		Z	6.14	80.53	22.44		65.0	
10262- CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	4.98	74.25	20.35	3.98	65.0	± 9.6 %
		Υ	5.23	75.73	21.26		65.0	
		Z	5.58	75.55	21.31		65.0	
10263- CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	4.74	72.12	19.01	3.98	65.0	± 9.6 %
		Y	4.98	73.53	19.91		65.0	
		Z	5.34	73.42	20.01		65.0	
10264- CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	5.56	78.83	21.90	3.98	65.0	± 9.6 %
		Y	6.41	82.18	23.54		65.0	
		Z	6.42	80.51	22.86		65.0	
10265- CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	4.98	71.84	19.37	3.98	65.0	± 9.6 %
		Y	5.18	73.09	20.20		65.0	
		Z	5.53	73.00	20.12		65.0	
10266- CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	5.34	72.91	20.22	3.98	65.0	± 9.6 %
		Y	5.53	74.04	20.98		65.0	
		Z	5.88	73.92	20.89		65.0	
10267- CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	5.64	76.53	21.06	3.98	65.0	± 9.6 %
		Y	6.16	78.78	22.27		65.0	
		Z	6.34	77.78	21.72		65.0	
10268- CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	5.63	71.94	19.85	3.98	65.0	± 9.6 %
		Y	5.78	72.88	20.51		65.0	
		Z	6.14	72.88	20.41	L	65.0	
10269- CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	5.64	71.57	19.72	3.98	65.0	± 9.6 %
		Y	5.77	72.45	20.36		65.0	
		Z	6.12	72.44	20.27		65.0	
10270- CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	5.66	74.09	20.17	3.98	65.0	± 9.6 %
		ΤY	5.94	75.48	21.01	1	65.0	
		Z	6.22	75.05	20.69	1	65.0	

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	x	2.58	66.84	15.32	0.00	150.0	±9.6 %
		Y	2.61	67.05	15.49	+	150.0	+
		Z	2.61	66.19	15.19	<u> </u>	150.0	╀────
10275- CAB	UMTS-FDD (HSUPA, Sublest 5, 3GPP Rel8.4)	X	1.62	68.33	15.81	0.00	150.0	± 9.6 %
		Y	1.68	69.01	16.23		150.0	<u> </u>
4007-		Z	1.61	67.33	15.34		150.0	+
10277- CAA	PHS (QPSK)	X	1.71	60.26	5.85	9.03	50.0	± 9.6 %
		Y	1.46	60.00	5.35		50.0	<u> </u>
40070		Z	2.08	61.87	7.57		50.0	<u>+</u>
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	3.48	68.77	13.21	9.03	50.0	± 9.6 %
	<u> </u>	Y	3.86	71.42	14.38		50.0	
10279-		Z	7.61	81.06	19.61		50.0	<u> </u>
CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	3.59	69.09	13.42	9.03	50.0	± 9.6 %
		Y	4.03	71.88	14.65		50.0	<u> </u>
10000		Z	7.80	81.31	19.76		50.0	1
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	1.38	68.75	13.54	0.00	150.0	± 9.6 %
	+	Y_	1.49	69.81	14.11		150.0	1
10001		Z	1.48	68.40	14.11		150.0	┢───-
10291- AAB	CDMA2000, RC3, SO55, Full Rate	X	0.81	66.18	12.25	0.00	150.0	± 9.6 %
		Y	0.88	67.15	12.85		150.0	<u> </u>
40000		Z	0.85	65.51	12.62		150.0	<u> </u>
10292- AAB	CDMA2000, RC3, SO32, Full Rate	X	1.25	72.63	15.60	0.00	150.0	± 9.6 %
		Y -	1.48	75.02	16.70		150.0	
		Z	1.05	69.24	14.85		150.0	<u> </u>
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	3.55	87.18	21.36	0.00	150.0	± 9.6 %
		Y	4.57	90.90	22.67		150.0	<u> </u>
4000		Z	1.55	74.98	17.80		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	10.90	87.79	24.10	9.03	50.0	± 9.6 %
		Y	17.38	97.96	27.91		50.0	
		Z	9.27	86.92	25.25		50.0	
10297- AAB	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.71	69.84	16.83	0.00	150.0	± 9.6 %
		LΥ	2.77	70.21	17.06		150.0	
		Z	2.77	69.29	16.46		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.47	67.49	13.62	0.00	150.0	±9.6 %
		Y	1.54	68.13	14.02		150.0	
0000		Z	1.61	67.49	14.26		150.0	
10299- \AC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	1.91	66.04	11.93	0.00	150.0	± 9.6 %
	<u> </u>	Y	2.08	67.06	12.49		150.0	
0300-		Z	2.55	68.88	14.29		150.0	
10300- \AC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	1.52	62.84	9.56	0.00	150.0	± 9.6 %
	<u> </u>	Y	1.60	63.32	9.89		150.0	
0304		Z	2.01	64.97	11.67		150.0	
0301- VAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.49	64.94	17.15	4.17	50.0	± 9.6 %
		Y	4.51	65.12	17.33		50.0	
		Z	4.77	65.09	17.35		50.0	
0000								
	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	x	4.98	65.58	17.87	4.96	50.0	± 9.6 %
10302- \AA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)					4.96		± 9.6 %

10303-	IEEE 802.16e WIMAX (31:15, 5ms,	X	4.72	65.17	17.66	4.96	50.0	± 9.6 %
ΑΑΑ	10MHz, 64QAM, PUSC)	Y	4.76	65.39	17.86		50.0	
		Z	4.76	65.24	17.83		50.0	
10304- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.56	65.16	17.23	4.17	50.0	± 9.6 %
		Y	4.60	65.38	17.42		50.0	
		Z	4.79	65.14	17.34		50.0	
10305- AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.06	66.26	18.68	6.02	35.0	± 9.6 %
		Y	3.98	66.05	18.73		35.0	
10306- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	Z X	4.32 4.43	66.47 65.65	19.19 18.52	6.02	35.0 35.0	± 9.6 %
		Y	4.40	65.62	18.63		35.0	
		Ż	4.69	65.80	18.88		35.0	
10307- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.31	65.69	18.43	6.02	35.0	± 9.6 %
		Y	4.27	65.62	18.52		35.0	
		Z	4.59	65.95	18.85		35.0	
10308- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	4.28	65.86	18.56	6.02	35.0	±9.6 %
	1	Y	4.24	65.78	18.65		35.0	
10200		Z	4.55	66.08	18.95	6.00	35.0	1060/
10309- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X Y	4.47	65.79	18.63	6.02	35.0 35.0	±9.6 %
	· · · · · · · · · · · · · · · · · · ·	Z	4.44	65.78 66.03	18.76 19.03		35.0	
10310- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	4.38	65.69	18.49	6.02	35.0	± 9.6 %
		Y	4.34	65.63	18.59		35.0	
		Z	4.64	65.84	18.85		35.0	
10311- AAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.08	69.08	16.47	0.00	150.0	±9.6 %
		Y	3.14	69.40	16.66		150.0	
		Z	3.12	68.62	16.13		150.0	
10313- AAA	iDEN 1:3	X	2.89	72.65	16.29	6.99	70.0	± 9.6 %
		Y Z	4.19 4.02	78.79 76.71	18.89 18.18		70.0	
10314- AAA	iDEN 1:6	X	5.30	83.78	23.47	10.00	30.0	± 9.6 %
		ΤΥ	6.55	89.94	26.15		30.0	
		Z	6.97	88.50	25.50		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.08	63.77	15.30	0.17	150.0	± 9.6 %
		Y	1.10	64.11	15.62		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	Z X	1.08 4.51	63 <u>.32</u> 66.68	14.99 16.32	0.17	150.0 150.0	± 9.6 %
		TY	4.53	66.78	16.42		150.0	<u> </u>
		Ż	4.64	66.54	16.30		150.0	
10317- AAB	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.51	66.68	16.32	0.17	150.0	± 9.6 %
		Y	4.53	66.78	16.42	ļ	150.0	
10105		Z	4.64	66.54	16.30	0.00	150.0	
10400- AAC	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.61	67.03	16.35	0.00	150.0	± 9.6 %
		Y	4.63	67.11	16.42	<u> </u>	150.0	
10401-	IEEE 802.11ac WiFi (40MHz, 64-QAM,	Z	4.76 5.34	66.86 67.18	16.27	0.00	150.0 150.0	± 9.6 %
AAC	99pc duty cycle)	Y	5.34	67.16	16.59		150.0	1 9.0 %
		Z	5.36	67.09	16.39	1	150.0	<b>!</b>

10402-	IEEE 802.11ac WiFi (80MHz, 64-QAM,	X	5.59	67.45	16.52	0.00	150.0	± 9.6 %
AAC	99pc duty cycle)	<u> </u>						
		Y_	5.60	67.49	16.57		150.0	
10403-	CDMA2000 (1xEV-DO, Rev. 0)	Z	5.71	67.42	16.48		150.0	
AAB		X	1.38	68.75	13.54	0.00	115.0	± 9.6 %
	<u> </u>	Y	1.49	69.81	14 11		115.0	
10404-		Z	1.48	68.40	14.11		115.0	
AAB	CDMA2000 (1xEV-DO, Rev. A)		1.38	68.75	13.54	0.00	115.0	± 9.6 %
		<u>Y</u>	1.49	<u>69.81</u>	14.11		115.0	
10406-	CDMA2000, RC3, SO32, SCH0, Full	Z	1.48	68.40	14.11		115.0	
AAB	Rate	X	17.35	99.43	24.90	0.00	100.0	± 9.6 %
		Y	63.25	115.82	28.80		100.0	
10410-		Z	11.61	93.88	24.12		100.0	
AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	8.36	91.25	22.62	3.23	80.0	± 9.6 %
	·	Y	100.00	127.16	32.13		80.0	
10415-		Z	100.00	125.70	32.09		80.0	
AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.03	63.22	14.88	0.00	150.0	± 9.6 %
	<u> </u>	Y	1.04	63.49	15.13		150.0	
10416-		Z	1.02	62.64	14.46		150.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duly cycle)	X	4.48	66.75	16.31	0.00	150.0	±9.6 %
	<u>+</u>	Y	4.49	66.81	16.37		150.0	1
10417-		Z	4.59	66.53	16.22		150.0	
AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.48	66.75	16.31	0.00	150.0	± 9.6 %
	· <u>                                     </u>	<u> </u>	4.49	66.81	16.37		150.0	
10418-		Z	4.59	66.53	16.22		150.0	
AAA 	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.47	66.94	16.35	0.00	150.0	±9.6 %
		L Υ ]	4.48	67.00	16.41	·	150.0	
10419-		Z	4.58	66.68	16.24		150.0	
AAA 	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.49	66.88	16.34	0.00	150.0	± 9.6 %
·		Y	4.50	66.93	16.40		150.0	
40400		Z	4.60	66.63	16.24		150.0	L
10422- AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.60	66.86	16.35	0.00	150.0	± 9.6 %
		Y	4.61	66.91	16.41	<u> </u>	150.0	<u> </u>
10.400		Z	4.72	66.64	16.26		150.0	
10423- AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.74	67.14	16.45	0.00	150.0	± 9.6 %
		Y	4.76	67.20	16.51		150.0	
10404		Z	4.89	66.97	16.38		150.0	
10424- AAA	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.67	67.10	16.43	0.00	150.0	± 9.6 %
	<u>+</u>	Y	4.68	67.15	16.49		150.0	
10405		Z	4.81	66.91	16.35		150.0	
10425- AAA	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.29	67.34	16.60	0.00	150.0	± 9.6 %
		Y	5.30	67.39	16.66		150.0	
10426		Z	5.42	67.29	16.55		150.0	
10426- AAA	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.31	67.43	16.64	0.00	150.0	± 9.6 %
					I			
		Y Z	5.32	67.48	16.70	———————————————————————————————————————	150.0	

10427-	LEEE 902 11p (HT Groopfield, 150 Mbre		5.00		40.50	0.00	450 0	
AAA	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.30	67.32	16.58	0.00	150.0	± 9.6 %
		Y	5.31	67.37	16.64		150.0	
40400		Z	5.44	67.28	16.54		150.0	·
10430- AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.41	72.30	18.78	0.00	150.0	± 9.6 %
		Ý	4.28	71.61	18.44		150.0	
		Z	4.35	_ 70.84	18.35		150.0	
10431- AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.12	67.35	16.27	0.00	150.0	±9.6 %
		Y	4.14	67.43	16.34		150.0	
		Z	4.27	67.06	16.22		150.0	
10432- AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.43	67.18	16.37	0.00	150.0	± 9.6 %
		<u>Y</u> .	4.45	67.24	16.44		150.0	
		Z	4.58	66.95	16.29		150.0	
10433- AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	×	4.69	67.13	16.45	0.00	150.0	±9.6 %
		Y	4.70	67.18	16.51		150.0	
10/0/		Z	4.82	66.95	16.37		150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.58	73.43	18.77	0.00	150.0	± 9.6 %
		Y	4.41	72.61	18.39		150.0	
40407		Z	4.46	71.72	18.35	0.00	150.0	1004
10435- AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	7.84	90.24	22.26	3.23	80.0	±9.6 %
		Y	100.00	126.90	32.00		80.0	
		Z	100.00	125.48	31.98		80.0	
10447- AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.40	67.35	15.41	0.00	150.0	±9.6 %
		Y	3.42	67.47	15.52		150.0	
		Z	3.56	67.03	15.56		150.0	
10448- AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	3.98	67.14	16.14	0.00	150.0	±9.6 %
		Y	4.00	67.22	16.21		150.0	
· _		Z	4.11	66.83	16.08		150.0	
10449- AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	×	4.26	67.02	16.27	0.00	150.0	± 9.6 %
		Y	4.28	67.08	16.34		150.0	
		Z	4.38	66.77	16.19		150.0	
10450- AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.47	66.91	16.31	0.00	150.0	± 9.6 %
		<u>Y</u>	4.48	66.96	16.37		150.0	
		Z	4.58	66.71	16.22		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.25	67.38	14.88	0.00	150.0	± 9.6 %
		Y	3.28	67.53	15.01		150.0	
		Z	3.46	67.22	15.21		150.0	
10456- AAA	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.22	67.99	16.81	0.00	150.0	± 9.6 %
		Y	6.22	68.02	16.86		150.0	
		Z	6.28	67.84	16.71		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	X	3.78	65.43	16.02	0.00	150.0	± 9.6 %
		Y	3.79	65.48	16.08		150.0	
		Z	3.83	65.16	15.92	0.00	150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.02	66.44	14.01	0.00	150.0	± 9.6 %
		Y	3.06	66.64	14.18		150.0	<u> </u>
		Z	3.28	66.54	14.63	L	150.0	-
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	×	4.18	65.23	15.36	0.00	150.0	± 9.6 %
		Y	4.18	<u>65.21</u>	15.41	ļ	150.0	
		Z	4.47	65.25	15.75		150.0	

10460-	UMTS-FDD (WCDMA, AMR)	X	0.93	68.87	16.62	0.00	150.0	± 9.6 %
_AAA		_						
		Υ Υ	1.00	70.16	17.38		150.0	
10461-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	<u>Z</u>	0.88	67.06	15.60		150.0	L
	QPSK, UL Subframe=2,3,4,7,8,9)	X Y	4.32	84.19	21.37	3.29	80.0	± 9.6 %
	<u> </u>		46.98	120.39	31.74	<u> </u>	80.0	
10462-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	Z	70.92	123.84	32.55		80.0	
AAA	16-QAM, UL Subframe=2,3,4,7,8,9)	Ŷ	1.50	61.17 66.22	8.92	3.23	80.0	± 9.6 %
		$\frac{1}{Z}$	4.18	75.74	<u>11.48</u> 15.77	<u> </u>	80.0	╞╴───-
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	x	0.83	60.00	7.74	3.23	80.0	± 9.6 %
		Y	0.90	60.95	8.47		80.0	<u> </u>
10101		Z	1.89	66.55	11.77		80.0	†
10464- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.27	79.79	19.27	3.23	80.0	± 9.6 %
		Y	44.63	117.13	30.10		80.0	
10465-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-	Z	63.16	119.86	30.88		80.0	
AAA QAM, UL Subframe=2,3,4	QAM, UL Subframe=2,3,4,7,8,9)	X	0.88	60.65	8.58	3.23	80.0	± 9.6 %
		Υ Υ	1.28	64.64	10.73		80.0	
10466-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-	Z	2.98	72.01	14.38		80.0	
AAA	QAM, UL Subframe=2,3,4,7,8,9)		0.83	60.00	7.69	3.23	80.0	± 9.6 %
		$\frac{1}{Z}$	1.66	60.44 65.17	8.16		80.0	┝───-
10467- LTE-TDD (SC-FDMA, AAB QPSK, UL Subframe=2	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.54	80.96	<u>11.12</u> 19.70	3.23	80.0 80.0	±9.6 %
		Y	60.93	121.68	31.18		80.0	
		Z	84.88	124.19	31.89		80.0	
10468- AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	0.89	60.80	8.68	3.23	80.0	± 9.6 %
	<u> </u>	Y	1.33	65.06	10.94		80.0	<u> </u>
10469-	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-	Z	3.21	72.86	14.71		80.0	
AAB	QAM, UL Subframe=2,3,4,7,8,9)	X	0.83	60.00	7.69	3.23	80.0	± 9.6 %
		Y	0.85	60.46	8.17		80.0	
10470-	LTE-TDD (SC-FDMA, 1 RB, 10 MHz,	Z	1.66	65.20	11.14		80.0	
AAB	QPSK, UL Subframe=2,3,4,7,8,9)	X	3.54	80.99	19.71	3.23	80.0	± 9.6 %
	<u> </u>	Y 7	63.11	122.20	31.29		80.0	
10471-	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-	Z X	86.48	124.48	31.95		80.0	
AAB	QAM, UL Subframe=2,3,4,7,8,9)	X Y	0.88	60.76	8.65	3.23	80.0	±9.6%
		Z	<u>1.32</u> 3.18	64.98	10.89		80.0	
10472- AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	0.83	72.76 60.00	14.66 7.68	3.23	80.0 80.0	± 9.6 %
		Y	0.84	60.42	8.13		80.0	
		Ζ	1.65	65.15	11.10		80.0	
10473- AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.52	80.93	19.68	3.23	80.0	± 9.6 %
		Y	62.71	122.07	31.26		80.0	
10474-	TE-TOD (SC EDMA ( DD (CL))	Z	85.93	124.36	31.91		80.0	
AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	0.88	60.74	8.64	3.23	80.0	± 9.6 %
		Y	1.31	64.94	10.87		80.0	
10475-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-	Z	3.15	72.67	14.63		80.0	
AAB	QAM, UL Subframe=2,3,4,7,8,9)	X	0.83	60.00	7.68	3.23	80.0	± 9.6 %
		Y	0.84	60.40	8.12		80.0	
		Z	1.64	65.11	11.08		80.0	

10477-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-	x	0.87	60.61	8.55	3.23	80.0	± 9.6 %
AAB	QAM, UL Subframe=2,3,4,7,8,9)	Y	1.27	64.59	10.69		80.0	
		Z	2.97	71.99	14.36		80.0	
10478- AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	×	0.83	60.00	7.67	3.23	80.0	± 9.6 %
10.0		Y	0.84	60.37	8.09		80.0	
	- ··	Z	1.63	65.04	11.04		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	x	4.53	79.52	20.39	3.23	80.0	± 9.6 %
		Y	7.80	88.47	23.78		80.0	
		Ζ	5.78	82.49	22.28		80.0	-
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.53	72.09	15.68	3.23	80.0	± 9.6 %
		Y	6.36	79.96	18.76		80.0	
		Z	6.52	79.72	19.55		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.81	68.83	13.98	3.23	80.0	± 9.6 %
		Y	4.53	74.98	16.60		<u>8</u> 0.0	
		Z	5.48	76.73	18.13		80.0	
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.20	68.90	15.09	2.23	80.0	± 9.6 %
		Y	2.93	73.22	17.16		80.0	
		Z	2.97	72.34	17.43		80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	2.35	65.97	12.90	2.23	80.0	±9.6 %
		Y	3.02	69.40	14.64		80.0	
		Z	4.23	73.30	17.24		80.0	
-10484- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.28	65.32	12.60	2.23	80.0	± 9.6 %
		Y	2.83	68.32	14.18		80.0	
		Z	3.99	72.23	16.81		80.0	
10485- AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.68	71.36	17.35	2.23	80.0	± 9.6 %
		Y	3.27	74.89	19.08		80.0	
		Z	3.17	72.95	18.56	<u> </u>	80.0	
10486- AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.64	67.61	15.00	2.23	80.0	± 9.6 %
		Ι Y	2.99	69.69	16.14	<u> </u>	80.0	
		Z	3.15	69.34	16.51		80.0	
10487- AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.64	67.21	14.79	2.23	80.0	±9.6 %
		Y	2.96	<u>69.13</u>	15.87		80.0	
10488-	LTE-TDD (SC-FDMA, 50% RB, 10 MHz,	<u>Z</u>   X	3.15 3.00	68.96 70.76	16.33 18.02	2.23	80.0 80.0	± 9.6 %
AAB	QPSK, UL Subframe=2,3,4,7,8,9)	Υ	3.34	72.92	19.20	<u> </u>	80.0	
·		Z	3.34	72.92	19.20	1	80.0	<u> </u>
10489- AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.42	67.95	16.69	2.23	80.0	± 9.6 %
		Y	3.24	69.09	17.42	1	80.0	
		Z	3.37	68.53	17.27		80.0	
10490- AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.16	67.82	16.63	2.23	80.0	± 9.6 %
<u> </u>		Y	3.32	68.90	17.33		80.0	
		Z	3.47	68.38	17.21		80.0	
10491- AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.29	69.57	17.67	2.23	80.0	± 9.6 %
<u> </u>		Y	3.53	71.04	18.54		80.0	
ł		Z	3.67	70.46	18.17		80.0	
10492- AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.43	67.31	16.78	2.23	80.0	± 9.6 %
		Y	3.55	68.11	17.34		80.0	
·		Z	3.72	67.80	17.20		80.0	1

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10493- AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.50	67.21	16.74	2.23	80.0	± 9.6 %
		Y	3.62	67.97	17.27		80.0	
10494-		Z	3.79	67.69	17.16		80.0	+
AAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.52	70.87	18.10	2.23	80.0	± 9.6 %
	<u>+</u>	Y	3.84	72.64	19.08	1	80.0	+
10495-		Z	3.98	72.03	18.67		80.0	
AAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.45	67.59	16.97	2.23	80.0	± 9.6 %
		Y	3.58	68.42	17.54		80.0	
10496-	LTE-TDD (SC-FDMA, 50% RB, 20 MHz,	Z	3.75	68.20	17.40		80.0	
AAB	64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.54	67.39	16.91	2.23	80.0	± 9.6 %
		Υ <u></u>	3.65	68.15	17.44		80.0	
10497-	LTE-TDD (SC-FDMA, 100% RB, 1.4	Z	3.83	67.94	17.32		80.0	
AAA	MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.43	63.58	11.40	2.23	80.0	± 9.6 %
		Y	1.80	66.67	13.09		80.0	
10498-	LTE-TDD (SC-FDMA, 100% RB, 1.4	Z	2.27	68.74	14.99	<u> </u>	80.0	
AAA	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	x	1.24	60.00	8.33	2.23	80.0	± 9.6 %
		Y	1.23	60.00	8.51		80.0	<u> </u>
10100		Ζ	1.81	63.14	11.27		80.0	╉─────
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.26	60.00	8.18	2.23	80.0	± 9.6 %
		Y	1.24	60.00	8.34		80.0	├───
		Z	1.76	62.56	10.83		80.0	┟────
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.78	70.93	17.56	2.23	80.0	±9.6%
		Y	3.23	73.75	19.01		80.0	—  —
40504		Z	3.21	72.13	18.47		80.0	<b>+</b>
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.86	67.97	15.75	2.23	80.0	± 9.6 %
		Y	3.13	69.65	16.71		80.0	
10502-		Z	3.25	69.01	16.80		80.0	
AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	2.90	67.83	15.61	2.23	80.0	± 9.6 %
		LY_	<u>3.1</u> 8	69.45	16.55		80.0	
10503-		<u>Z</u>	<u>3.31</u>	68.90	16.69		80.0	
AB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.96	70.56	17.92	2.23	80.0	± 9.6 %
		Y	3.29	72.71	19.10		80.0	
0504-	LTE-TDD (SC-FDMA, 100% RB, 5 MHz,	Z	3.38	71.68	18.59		80.0	
<u>AB</u>	16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.05	67.84	16.62	2.23	80.0	± 9.6 %
	<u> </u>	Y	3.22	69.00	17.36		80.0	
0505-	LTE-TDD (SC-FDMA, 100% RB, 5 MHz,	Z	3.35	68.44	17.21		80.0	
AB	64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.14	67.73	16.57	2.23	80.0	± 9.6 %
		Y	3.31	68.81	17.27		80.0	
0506-	LTE-TDD (SC-FDMA, 100% RB, 10	Z	3.45	68.28	17.16		80.0	
	MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.49	70.73	18.03	2.23	80.0	± 9.6 %
		Y	3.81	72.49	19.00		80.0	
0507-	LTE-TDD (SC-FDMA, 100% RB, 10	Z	3.95	71.88	18.59		80.0	
АВ —————	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.44	67.53	16.93	2.23	80.0	± 9.6 %
	I T	Y	2 50	00.00				
		z	<u>3.56</u> 3.73	68.36	17.50	1	80.0	

10508- AAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.53	67.32	16.87	2.23	80.0	± 9.6 %
		Y	3.64	68.08	17.40		80.0	
		Z	3.82	67.87	17.27		80.0	
10509- AAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	3.90	69.82	17.65	2.23	80.0	± 9.6 %
		Y	4.14	71.06	18.38		80.0	
		Z	4.30	70.72	18.09		80.0	
10510- AAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	3.92	67.34	16.97	2.23	80.0	± 9.6 %
		Y	4.03	67.99	17.44		80.0	
		Z	4.22	67.93	17.34		80.0	
10511- AAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.99	67.15	16.93	2.23	80.0	± 9.6 %
		Y	4.09	67.75	17.36		80.0	
		<u>Z</u>	4.28	67.68	17.27		80.0	
10512- AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.00	71.09	18.05	2.23	80.0	± 9.6 %
		Y	4.33	72.71	18.93		80.0	
		Z	4.49	72.31	18.60		80.0	
10513- AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	3.80	67.50	17.05	2.23	80.0	± 9.6 %
		Y	3.92	68.21	17.54		80.0	
10514- AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL	Z X	4.11 3.85	68.20 67.16	17.45 16.95	2.23	80.0 80.0	± 9.6 %
	Subframe=2,3,4,7,8,9)	Y	3.95	67.80	17.41		80.0	
		Z	4.13	67.78	17.32		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.99	63.41	14.95	0.00	150.0	± 9.6 %
,		Y	1.00	63.71	15.22		150.0	
_		Z	0.98	62.80	14.50		150.0	
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duly cycle)	X	0.63	71.18	17.99	0.00	150.0	± 9.6 %
		Y	0.75	74.25	19.60		150.0	
		Z	0.56	68.07	16.15		150.0	
10517- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.84	65.39	15.66	0.00	150.0	± 9.6 %
		Y	0.87	66.03	16.14		150.0	
10518- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	Z X	<u>0.82</u> 4.47	64.43 66.84	14.97 16.30	0.00	150.0 150.0	± 9.6 %
		Y	4.48	66.90	16.36		150.0	
		Z	4.58	66.60	16.20		150.0	
10519- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.63	67.03	16.39	0.00	150.0	± 9.6 %
		Y	4.64	67.09	16.46		150.0	
		Z	4.77	66.85	16.33		150.0	
10520- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.49	66.98	16.32	0.00	150.0	± 9.6 %
		Y Z	4.50	67.04 66.81	16.38 16.25		150.0 150.0	
10521- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.62 4.42	66.97	16.25	0.00	150.0	± 9.6 %
		Y	4.43	67.03	16.37		150.0	
		Z	4.55	66.80	16.23		150.0	
10522- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.48	67.10	16.40	0.00	150.0	± 9.6 %
		Y	4.49	67.16	16.47	L	150.0	
[		Z	4.61	66.88	16.31_		150.0	

10523-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48	x	4.38	67.02	16.28	0.00	150.0	
AAA	Mbps, 99pc duty cycle)					0.00		± 9.6 %
		Y	4.40	67.08	16.35		150.0	
10524-		Z	4.49	66.74	16.15		150.0	
AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.42	67.02	16.37	0.00	150.0	± 9.6 %
	- <u> </u>	<u>Y</u>	4.44	67.08	16.44		150.0	
40505		Z	4.56	66.80	16.28		150.0	
10525- AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.44	66.11	15.98	0.00	150.0	± 9.6 %
		Y	4.45	66.16	16.04		150.0	
40500		Z	4.54	65.84	15.87		150.0	
10526- AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.58	66.42	16.11	0.00	150.0	± 9.6 %
	·	Y	<u>4.59</u>	66.48	16.17		150.0	
10527-		Z	<u>4.71</u>	66.22	16.01		150.0	
	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duły cycle)	X	4.51	66.39	16.05	0.00	150.0	± 9.6 %
		Y	4.52	66.45	16.12		150.0	
10500		Z	4.63	66.17	15.95		150.0	<u> </u>
10528- AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.52	66.40	16.08	0.00	150.0	± 9.6 %
	<u> </u>	Y	4.54	66.46	16.15		150.0	<u> </u>
10529-		Z	4.65	66.19	15.99		150.0	F
AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.52	66.40	16.08	0.00	150.0	± 9.6 %
		Y	4.54	66.46	16.15		150.0	
10504		Z	4.65	66.19	15.99		150.0	
10531- AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.50	66.46	16.08	0.00	150.0	±9.6 %
		Y	4.51	66.53	16.14		150.0	
<u></u>		Z	4.64	66.30	16.00		150.0	<u> </u>
10532- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.37	66.32	16.01	0.00	150.0	±9.6%
		Y	4.39	66.39	16.08		150.0	
40500		Z	4.50	66.15	15.93		150.0	
10533- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.53	66.48	16.08	0.00	150.0	± 9.6 %
		Υ	4.54	66.54	16.15		150.0	
		Z	4.66	66.23	15.97		150.0	
10534- AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.07	66.45	16.14	0.00	150.0	± 9.6 %
	<u> </u>	Y	5.09	66.50	16.19		150.0	
10505		Z	<u>5</u> .19	66.33	16.06		150.0	
10535- AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.13	66.62	16.22	0.00	150.0	±9.6 %
	<u> </u>	Y	5.14	66.67	16.27		150.0	
0500		Z	5.25	66.51	16.14		150.0	
10536- AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.01	66.59	16.19	0.00	150.0	± 9.6 %
		Y	5.03	66.64	16.24		150.0	
0527		Z	5.12	66.45	16.09		150.0	
10537- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.07	66.55	16.17	0.00	150.0	± 9.6 %
		Y	5.08	66.59	16.22		150.0	
0520		Z	5.18	66.42	16.08		150.0	
10538- \AA	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	Х	5.14	66.54	16.20	0.00	150.0	± 9.6 %
	<u> </u>	Y	5.15	66.59	16.25		150.0	
0540		Z	5.27	66.46	16.14		150.0	
10540- \AA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.07	66.52	16.21	0.00	150.0	± 9.6 %
		Y	5.08	66.57	16.26			
		Z	5.20	00.07 1	10.20		150.0	

10541- AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	х	5.05	66.41	16.14	0.00	150.0	±9.6 %
		Y	5.06	66.46	16.20		150.0	
		Z	5.17	66.33	16.08		150.0	
10542- AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.21	66.51	16.21	0.00	150.0	±9.6 %
,		Y	5.22	66.55	16.26		150.0	
		Z	5.33	66.41	16.13		150.0	
10543- AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	x	5.27	66.52	16.24	0.00	150.0	± 9.6 %
		Y	5.28	66.56	16.29		150.0	
		Z	5.41	66.45	16.18		150.0	
10544- AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.40	66.53	16.13	0.00	150.0	± 9.6 %
		Y	5.42	66.58	16.18		15 <u>0.0</u>	
		Z	5.49	66.45	16.06		150.0	
10545- AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.59	66.98	16.30	0.00	150.0	± 9.6 %
		Y	5.60	67.03	16.36		150.0	
		Z	5.69	66.88	16.22		150.0	
10546- AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duly cycle)	X	5.45	66.68	16.17	0.00	150.0	± 9.6 %
		Y	5.46	66.73	16.22		150.0	
		Z	5.56	66.67	16.13		150.0	
10547- AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.52	66.76	16.20	0.00	150.0	± 9.6 %
		Y	5.53	66.80	16.25		150.0	
		Ζ	5.63	66.71	16.14		150.0	
10548- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.72	67.56	16.57	0.00	150.0	±9.6 %
		Y	5.74	67.62	16.64		150.0	
		Z	5.92	67.73	16.62		150.0	
10550- AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.50	66.81	16.24	0.00	150.0	±9.6 %
		Y	5.51	66.85	16.30		150.0	
		Z	5.59	66.68	16.14		150.0	
10551- AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.47	66.72	16.16	0.00	150.0	± 9.6 %
		Y	5.48	66.77	16.22		150.0	l
		Z	5.59	66.72	16.13		150.0	
10552- AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.41	66.62	16.12	0.00	150.0	± 9.6 %
		Y	5.42	66.66	16.16		150.0	<b> </b>
10553-	IEEE 802.11ac WiFi (80MHz, MCS9,	Z X	<u>5.50</u> 5.48	<u>66.51</u> 66.60	<u>16.03</u> 16.14	0.00	<u>150.0</u> 150.0	± 9.6 %
AAA	99pc duty cycle)	Y	5.49	66.65	16.19	<u> </u>	150.0	
<u> </u>			5.59	66.56	16.08	1	150.0	<u> </u>
10554- AAA	IEEE 1602.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.82	66.88	16.21	0.00	150.0	± 9.6 %
<u> </u>		Y	5.83	66.92	16.26		150.0	
		Z	5.90	66.82	16.15		150.0	
10555- AAA	IEEE 1602.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.94	67.15	16.33	0.00	150.0	± 9.6 %
<u> </u>		Y	5.95	67.20	16.38		150.0	L
		Z	6.03	67.13	16.28		150.0	ļ
10556- AAA	IEEE 1602.11ac WiFi (160MHz, MCS2, 99pc duly cycle)	X	5.96	67.23	16.36	0.00	150.0	± 9.6 %
		Y	5.98	67.27	16.41		150.0	ļ
		Z	6.05	67.17	16.30		150.0	<u> </u>
10557- AAA	IEEE 1602.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.92	67.10	16.31	0.00	150.0	± 9.6 %
<u> </u>		Y	5.93	67.14	16.36		150.0	
<u> </u>		Z	6.02	67.08	16.27	1	150.0	

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10558- AAA	IEEE 1602.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	5.96	67.24	16.39	0.00	150.0	± 9.6 %
		- <del>  Y</del> -	5.97	67.29		+	+	∔
		- <u>'</u>	6.07		16.45	<u> </u>	150.0	
10560- AAA	IEEE 1602.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	5.95	67.25 67.10	16.37 16.36	0.00	<u>150.0</u> 150.0	± 9.6 %
		Υ	5.97	67.14	16.41		150.0	
		Z	6.06	67.09	16.33	<u>+</u>	150.0	+
10561- AAA	IEEE 1602.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.89	67.09	16.39	0.00	150.0	± 9.6 %
		<u> </u>	5.90	67.14	16.45		150.0	+
10562-		Z	5.99	67.06	16.35		150.0	+
<u>AAA</u>	IEEE 1602.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	5.97	67.34	16.52	0.00	150.0	± 9.6 %
		<u> </u>	5.98	67.39	16.57		150.0	
10563-	IEEE 1602.11ac WiFi (160MHz, MCS9,	Z	6.12	67.47	16.55		150.0	
AAA	99pc duty cycle)	X	6.05	67.24	16.43	0.00	150.0	± 9.6 %
	+	Y	6.06	67.29	16.49		150.0	
10564-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	6.41	67.91	16.73		150.0	
AAA	OFDM, 9 Mbps, 99pc duty cycle)	X	4.78	66.85	16.41	0.46	150.0	± 9.6 %
	+	<u>Y</u>	4.80	66.93	16.49		150.0	
10565-	IEEE 802.11g WiFi 2.4 GHz (DSSS-		4.91	66.67	16.35		150.0	
AAA	OFDM, 12 Mbps, 99pc duty cycle)	Y	4.99 5.01	67.29	16.74	0.46	150.0	± 9.6 %
		Z	5.14	67.35	16.80		150.0	L
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	X	4.83	67.15 67.11	16.69 16.54	0.46	150.0 150.0	± 9.6 %
		TY-	4.84	67.40	40.00			
		z	4.98	67.18 66.99	16.62		150.0	<u> </u>
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	4.87	67.55	16.50 16.94	0.46	150.0 150.0	± 9.6 %
		Y	4.87	67.57	16.98		450.0	
		Ż	5.01	67.40	16.98		150.0	
10568- AAA	IEEE 802.11g WIFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	X	4.73	66.85	16.28	0.46	150.0 150.0	± 9.6 %
		TY	4.75	66.97	16.39		150.0	
		Z	4.88	66.73	16.25		150.0	<u> </u>
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	X	4.84	67.72	17.05	0.46	150.0	± 9.6 %
		Y	4.85	67.73	17.08		150.0	·
0570-		Z	4.96	67.48	16.93		150.0	
AA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	4.86	67.53	16.95	0.46	150.0	±9.6 %
	<u> </u>	Y	4.87	67.55	16.99		150.0	
0571-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1	Z	5.00	67.32	16.86		150.0	
	Mbps, 90pc duty cycle)	X	1.13	63.98	15.42	0.46	130.0	± 9.6 %
		Y	1.15	64.46	15.85		130.0	
0572-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	ZX	1.15	63.75	15.28	]	130.0	
AA	Mbps, 90pc duty cycle)		1.14	64.53	15.78	0.46	130.0	± 9.6 %
	<u> </u>	Y	1.16	65.03	16.22		130.0	
0573-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5	Z	1.16	64.27	15.61	1	130.0	
<u>AA</u>	Mbps, 90pc duty cycle)	X	1.37	80.51	21.92	0.46	130.0	±9.6 %
		Y	2.18	89.24	25.44		130.0	
0574-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	Z X	1.24	77.68	20.60		130.0	
AA	Mbps, 90pc duly cycle)		1.21	70.03	18.74	0.46	130.0	± 9.6 %
		Z	1.26	70.93	19.36		130.0	
			1.21	69.23	18.24		130.0	

10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	x	4.55	66.59	16.41	0.46	130.0	± 9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)			•••••		0110	100.0	20.0 /0
		Y	4.57	66.69	16.52		130.0	
40570		Z	4.69	66.45	16.40		_130.0	
10576- AAA	IEEE 802.11g WIFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle)	X	4.58	66.78	16.50	0.46	130.0	± 9.6 %
		Y	4.60	66.87	16.60		130.0	
		Z	4.71	66. <u>62</u>	16.47		130.0	
10577- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	X	4.76	67.04	16.65	0.46	130.0	±9.6 %
		Y	4.78	67.12	16.75		130.0	
(		Z	4.92	66.93	16.65		130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	4.67	67.21	16.78	0.46	130.0	± 9.6 %
		Y	4.68	67.27	16.85		130.0	
40570		Z	4.82	67.09	16.76	0.40	130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	X	4.41	66.37	16.00	0.46	130.0	± 9.6 %
		Y	4.44	66.52	16.15		130.0	
40500		Z	4.58	66.34	16.04	0.40	130.0	
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	X	4.45	66.43	16.02	0.46	130.0	± 9.6 %
		Y	4.49	66.59	16.18		130.0	
10001		Z	4.62	66.36	16.05		130.0	
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	X	4.57	67.26	16.72	0.46	130.0	± 9.6 %
		Y	4.58	67.33	16.82		130.0	
40500		Z	4.71	67.12	16.69		130.0	100%
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.34	66.11	15.76	0.46	130.0	± 9.6 %
		Y	4.38	66.30	15.94		130.0	
		Z	4.52	66.09	15.82		130.0	
10583- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.55	66.59	16.41	0.46	130.0	± 9.6 %
	-	Y	4.57	66.69	16.52		130.0	
		<u>Z</u>	4.69	66.45	16.40		130.0	
10584- AAA	IEEE 802.11a/n WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.58	66.78	16.50	0.46	130.0	± 9.6 %
		Υ	4.60	66.87	16.60		130.0	ļ
		Z	4.71	66.62	16.47		130.0	
10585- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duly cycle)	X	4.76	67.04	16.65	0.46	130.0	± 9.6 %
		Υ	4.78	67.12	16.75	L	130.0	
10586-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18	Z X	<u>4.92</u> 4.67	66.93 67.21	16.65 16.78	0.46	130.0 130.0	± 9.6 %
AAA	Mbps, 90pc duty cycle)	Y	4.68	67.27	16.85		130.0	
			4.82	67.09	16.65		130.0	ł ·
10587- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duly cycle)	X	4.41	66.37	16.00	0.46	130.0	± 9.6 %
		Y	4.44	66.52	16.15		130.0	1
		Ż	4.58	66.34	16.04	1	130.0	<u> </u>
10588- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.45	66.43	16.02	0.46	130.0	± 9.6 %
		Y	4.49	66.59	16.18		130.0	
		Z	4.62	66.36	16.05		130.0	
10589- AAA	IEEE 802.11a/h WiFl 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.57	67.26	16.72	0.46	130.0	± 9.6 %
-		Y	4.58	67.33	16.82		130.0	
		Z	4.71	67.12	16.69		130.0	
10590- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.34	66.11	15.76	0.46	130.0	± 9.6 %
		Y	4.38	66.30	15.94	Ť	130.0	
		Z	4.52	66.09	15.82		130.0	1

AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.71	66.67	16.53	0.46	130.0	± 9.6 %
		- Y	4.73	66.75	16.62	+	120.0	<del> </del> _
		Z	4.84	66.53	16.51	+	130.0	
10592- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duly cycle)	X	4.84	66.99	16.66	0.46	<u>130.0</u> 130.0	± 9.6 %
		Y	4.86	67.07	16.75	1	130.0	<u>+</u>
40500		Z	5.00	66.87	16.64	<u> </u>	130.0	+
10593- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.76	66.86	16.52	0.46	130.0	± 9.6 %
		Y	4.78	66.96	16.62		130.0	T
10594-		Z	4.92	66.77	16.52		130.0	<u> </u>
AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.82	67.05	16.69	0.46	130.0	± 9.6 %
	- <u> </u>	<u> </u>	4.84	67.13	16.78		130.0	
10595-		Z	4.97	66.94	16.68		130.0	
AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.78	67.01	16.59	0.46	130.0	± 9.6 %
	+		4.80	67.10	16.69		130.0	
10596-		<u> </u>	4.94	66.89	16.57		130.0	
AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)		4.71	66.98	16.58	0.46	130.0	± 9.6 %
	+	_ <u>  Y</u> _	4.73	67.08	16.69		130.0	
10597-	IEEE 802.11n (HT Mixed, 20MHz,	Z	4.87	66.88	16.57		130.0	T
	MCS6, 90pc duty cycle)	X	4.66	66.85	16.44	0.46	130.0	± 9.6 %
	<u> </u>	Y	4.69	66.96	16.56		130.0	T
10598-		Z	4.82	66.78	16.45		130.0	
AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.65	67.11	16.73	0.46	130.0	± 9.6 %
	+	- Y	4.67	67.18	<u>16.8</u> 1		130.0	— —
10599-		Z	4.81	67.03	16.73		130.0	F
AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.39	67.16	16.75	0.46	130.0	± 9.6 %
		<u>Y</u>	5.40	67.23	16.84		130.0	·
10600-		Z	5.52	67.11	16.73		130.0	1
AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.51	67.57	16.93	0.46	130.0	± 9.6 %
	<u>+</u>	Y	5.53	67.67	17.03		130.0	
10601-		<u> </u>	5.67	67.58	16.94		130.0	
4AA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.40	67.32	16.82	0.46	130.0	± 9.6 %
	— — — — — — — —	Y	5.42	67.41	16.92		130.0	
10602-		<u>Z</u>	5.55	67.30	16.82		130.0	
AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duly cycle)	X	5.53	67.48	16.82	0.46	130.0	± 9.6 %
	<u> </u>	Y	5.55	67.58	16.92		130.0	
10603-		Z	5.64	67.31	16.73	·	130.0	
AA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.60	67.77	17.10	0.46	130.0	± 9.6 %
		Y	5.62	67.84	17.19		130.0	
0604-	IEEE 802.11n (HT Mixed, 40MHz,	Z	5.72	67.63	17.03		130.0	
\AA	MCS5, 90pc duty cycle)	X	5.48	67.44	16.92	0.46	130.0	±9.6 %
	<u> </u>	<u> </u>	5.50	67.51	17.01		130.0	
0605-		Z	5.52	67.07	16.74		130.0	
VAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.51	67.48	16.93	0.46	130.0	± 9.6 %
		Y	5.53	67.59	17.04		130.0	
		Z	5.64	67.42	16.91		130.0	
10606- NAA	IEEE 802.11n (HT Mixed, 40MHz,	X	5.24	66.77	16.43	0.46	130.0	± 9.6 %
	MCS7, 90pc duty cycle)				ľ	ł		- 0.0 /0
	MCS7, 90pc duty cycle)	Y Z	5.27	66.88	16.54		130.0	

10607-	IEEE 802.11ac WiFi (20MHz, MCS0,	X	4.56	66.02	16.17	0.46	130.0	± 9.6 %
AAA	90pc duty cycle)							
		Y	4.58	66.11	16.27		130.0	
40000		Z	4.68	65.84	16.13	0.10	130.0	
10608- AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.71	66.38	16.33	0.46	130.0	±9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	4.74	66.48	16.43		130.0	
40000		Z	4.87	66.25	16.30	0.40	130.0	1000
10609- AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.60	66.21	16.15	0.46	130.0	±9.6 %
		Y	4.63	66.32	16.26		130.0	<u> </u>
10610- AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	Z X	4.75 4.66	66.09 66.38	16.13 16.32	0.46	130.0 130.0	± 9.6 %
		Y	4.68	66.48	16.42	_	130.0	
		Z	4.81	66.25	16.30		130.0	
10611- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.57	66.17	16.16	0.46	130.0	± 9.6 %
		Y	4.59	66.28	16.27	_	130.0	
		Z	4.72	66.06	16.14		130.0	
10612- AAA	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.57	66.31	16.20	0.46	130.0	±9.6 %
		Y	4.59	66.44	16.32		130.0	
10010		Z	4.73	66.20	16.18	0.40	130.0	
10613- AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.56	66.14	16.05	0.46	130.0	± 9.6 %
		Y	4.59	66.27	16.18		130.0	
10014		Z	4.73	66.09 66.39	<u>16.06</u> 16.32	0.46	130.0 130.0	± 9.6 %
10614- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.53			0.46		19.0 %
		Y	4.55	66.47 66.29	<u>16.42</u> 16.31		130.0 130.0	
10615- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	Z X	4.68 4.56	65.98	15.91	0.46	130.0	± 9.6 %
<u> </u>		Y	4.59	66.13	16.05		130.0	
			4.72	65.87	15.91	<u> </u>	130.0	
10616- AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.20	66.41	16.36	0.46	130.0	± 9.6 %
		Y	5.22	66.48	16.45		130.0	
		Z	5.34	66.37	16.34		130.0	
10617- AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.27	66.60	16.43	0.46	130.0	± 9.6 %
		Y	5.29	66.69	16.53		130.0	
		Z	5.41	66.54	16.40	<u> </u>	130.0	
10618- AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.17	66.64	16.47	0.46	130.0	± 9.6 %
		Y	5.19	66.72	16.55		130.0	
10619-	IEEE 802.11ac WiFi (40MHz, MCS3,	Z X	5.29 5.17	66.54 66.40	16.42 16.28	0.46	130.0 130.0	± 9.6 %
AAA	90pc duty cycle)	Y	5.19	66.49	16.38		130.0	<u>+</u>
		Z	5.19	66.37	16.38		130.0	
10620- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duly cycle)	X	5.25	66.42	16.34	0.46	130.0	± 9.6 %
		Y	5.27	66.52	16.44		130.0	
		Z	5.40	66.41	16.34		130.0	
10621- AAA	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.27	66.59	16.55	0.46	130.0	± 9.6 %
		Y	5.28	66.65	16.62		130.0	ļ
		Z	5.40	66.53	16.52		130.0	
10622- AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duly cycle)	X	5.27	66.70	16.60	0.46	130.0	± 9.6 %
		Y	5.28	66.78	16.68		130.0	
I		Z	5.41	66.70	16.60		130.0	

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10623- AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.14	66.21	16.21	0.46	130.0	± 9.6 %
		- Y						
			5.16	66.31	16.32		130.0	
10624- AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	<u>5.28</u> 5.34	<u>66.20</u> 66.45	16.22 16.40	0.46	1 <u>30.0</u> 130.0	± 9.6 %
		-   Y	5.36	66.54	16.49	<u> </u>	130.0	
1000-		Z	5.48	66.42	16.39	<u>+</u>	130.0	<u> </u>
10625- AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.55	66.97	16.72	0.46	130.0	± 9.6 %
		Y	5.57	67.07	16.81	<u> </u>	130.0	
		Z	5.88	67.48	16.97	<u> </u>	130.0	
10626- AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.53	66.46	16.32	0.46	130.0	± 9.6 %
		Y	5.54	66.54	16.40	† — -	130.0	+
40007		Z	5.63	66.43	16.30		130.0	+
10627- AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duly cycle)	X	5.77	67.07	16.59	0.46	130.0	± 9.6 %
		Y	5.79	67.16	16.68	†	130.0	+
10620		Z	5.88	67.02	16.56	1	130.0	<u>†                                    </u>
10628- AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.53	66.46	16.22	0.46	130.0	± 9.6 %
	+	<u> </u>	5.55	66.56	16.32		130.0	†—–
10629-		Z	5.67	66.54	16.25		130.0	
AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.62	66.57	16.27	0.46	130.0	± 9.6 %
	+	<u> </u>	5.64	66.67	16.37		130.0	<u> </u>
10630-		<u>Z</u>	5.76	66.64	16.29		130.0	
AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	5.96	67.80	16.88	0.46	130.0	± 9.6 %
	+	Y	5.98	67.92	17.00		130.0	
10631-		Z	6.25	68.26	17.09		130.0	
	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.89	67.74	17.06	0.46	130.0	± 9.6 %
	+	Y	5.91	67.78	17.11		130.0	F———
10632-	IEEE 802.11ac WiFi (80MHz, MCS6,		6.11	67.97	17.16		130.0	
444	90pc duty cycle)	X	5.75	67.20	16.81	0.46	130.0	± 9.6 %
	<u>+ — — — — —                           </u>	Y	5.76	67.24	16.86		130.0	
0633-		Z	5.85	67.08	16.73		130.0	
	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.60	66.69	16.37	0.46	130.0	± 9.6 %
	<u> </u>	Y	5.62	66.77	16.45		130.0	
0634-	IEEE 802.11ac WiFi (80MHz, MCS8,	Z	5.73	66.69	16.36		130.0	
AA	90pc duty cycle)	X	5.58	66.71	16.44	0.46	130.0	± 9.6 %
	<u> </u>	Y	5.60	66.78	16.51		130.0	
0635- AA	IEEE 802.11ac WiFi (80MHz, MCS9,	ZX	<u>5.72</u> 5.44	66.73 65.95	<u>16.44</u> 15.77	0.46	130.0 130.0	± 9.6 %
<u>. v</u> i	90pc duty cycle)		- <u></u>					_ 0.0 /0
			5.47	66.09	15.91		130.0	
0636-	IEEE 1602.11ac WiFi (160MHz, MCS0,	Z	5.60	66.05	15.82		130.0	
	90pc duty cycle}	X	5.96	66.83	16.41	0.46	130.0	±9.6 %
			5.97	66.90	16.49		130.0	
0637- AA	IEEE 1602.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	Z X	<u>6.05</u> 6.10	<u>66.82</u> 67.19	<u>16.40</u> 16.58	0.46	130.0 130.0	±9.6 %
		Y	6.12	67.27	16.60		100 5	
		Z	6.21	67.21	16.66		130.0	
0638- AA	IEEE 1602.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.10	67.17	16.58 16.54	0.46	<u>130.0</u> 130.0	± 9.6 %
·		Y	6.12	67.25	16.63		400.0	
	·	Ż	6.21	67.17	16.53		130.0	
				01.11	10.04		130.0	

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10639- AAA	IEEE 1602.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.07	67.09	16.55	0.46	130.0	± 9.6 %
		Y	6.09	67.17	16.63	-	130.0	
		Z	6.19	67.14	16.56		130.0	
10640- AAA	1EEE 1602.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.06	67.06	16.47	0.46	130.0	± 9.6 %
		Y	6.08	67.16	16.57		130.0	
		Z	6.19	67.15	16.51		130.0	
10641- AAA	IEEE 1602.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.13	67.06	16.49	0.46	130.0	±9.6 %
		Y	6.15	67.15	16.59		130.0	
		Z	6.23	67.02	16.46		130.0	
10642- AAA	IEEE 1602.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.16	67.29	16.78	0.46	130.0	±9.6 %
		Y	6.17	67.34	16.84		130.0	
		Z	6.28	67.31	16.78		130.0	
10643- AAA	IEEE 1602.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.00	66.97	16.51	0.46	130.0	± 9.6 %
		Y	6.02	67.06	16.61		130.0	
		Z	6.11	66.97	16.50		130.0	
10644- AAA	IEEE 1602.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.09	67.26	16.67	0.46	130.0	± 9.6 %
		Y	6.12	67.36	16.77		130.0	
		Z	6.29	67.52	16.80		130.0	
10645- AAA	IEEE 1602.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.23	67.33	16.67	0.46	130.0	±9.6 %
		Y	6.26	67.42	16.77		130.0	
		Z	6.72	68.38	17.18		130.0	
10646- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	7.97	91.85	31.39	9.30	60.0	± 9.6 %
		Y	11.74	104.28	36.86		60.0	
		Z	11.88	99.49	34.28		60.0	
10647- AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subírame=2,7)	X	7.13	89.84	30.79	9.30	60.0	± 9.6 %
		Y	9.93	100.75	35.82		60.0	
		Z	10.62	97.47	33.72		60.0	
10648- AAA	CDMA2000 (1x Advanced)	X	0.64	63.39	10.24	0.00	150.0	± 9.6 %
		Y	0.67	63.88	10.62		150.0	
		Z	0.72	63.48	11.02		150.0	1

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

# APPENDIX D: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

©

- 1) The network analyzer and probe system was configured and calibrated.
- 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
- The complex relative permittivity ε can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\varepsilon_{r}\varepsilon_{0}}{\left[\ln(b/a)\right]^{2}} \int_{a}^{b} \int_{a}^{b} \int_{0}^{\pi} \cos\phi' \frac{\exp\left[-j\omega r(\mu_{0}\varepsilon_{r}\varepsilon_{0})^{1/2}\right]}{r} d\phi' d\rho' d\rho$$

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,  $r^2 = \rho^2 + {\rho'}^2 - 2\rho\rho'\cos\phi'$ ,  $\omega$  is the angular frequency, and  $j = \sqrt{-1}$ .

Frequency (MHz)	750	750	835	835	1750	1750	1900	1900	2450- 2600	2450- 2600	5200- 5800	5200- 5800	
Tissue	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	
Ingredients (% by weight)													
Bactericide			0.1	0.1									
DGBE					47	31	44.92	29.44		26.7			
HEC	Saa 8000	Saa maga	1	1							Saa maaa		
NaCl	See page 2-3	See page 2	1.45	0.94	0.4	0.2	0.18	0.39	See page 4	0.1	See page		
Sucrose		-	57	44.9							, i i i i i i i i i i i i i i i i i i i		
Polysorbate (Tween) 80	]											20	
Water			40.45	53.06	52.6	68.8	54.9	70.17		73.2		80	

 Table D-I

 Composition of the Tissue Equivalent Matter

	FCC ID: ZNFQ710TS		SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager
	Test Dates:	DUT Type:			APPENDIX D:
	03/08/18 - 03/26/18	Portable Handset			Page 1 of 5
201	8 PCTEST Engineering Laboratory,	Inc.			REV 20.06 M 12/06/2017

#### 2 Composition / Information on ingredients

I he Item is composed of	the following ingredients:
H <sub>2</sub> 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-methyyl-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.

Phone + info@sp		245 97	00, Fa:	x +41 4	14 245													
Setup	ame ct No. acturer iremer electric Valida	nt Meth paran	Body SL AA SPEA nod	Tissu M 075 G	e Sim 5 AA (I sured u	ulating Batch: using ca	Liquid (M 170608-1) alibrated D.	AK pre	obe.		nanol.							
Target	t Parar	neters																
Target	paran	neters	as def	ined ir	n the IB	EEE 15	28 and IEC	6220	)9 co	mpli	ance	standa	ards.					
Operat	UI		CL															
TSL D	onal Ir ensity leat-ca		1.212	g/cm <sup>3</sup> kJ/(kg														
TSL D	ensity	pacity	1.212	kJ/(kg	g*K)		Farget [%]		10.0									
TSL D TSL H	ensity leat-ca Measu	pacity red e"	1.212 3.006 sigma	Target eps	g*K) sigma	∆-eps	∆-sigma	*	10.0 7.5									
TSL D TSL H f [MHz] 600	Measu	red e" 25.02	1.212 3.006 sigma 0.84	Target eps 56.1	sigma 0.95	∆-eps 2.2	∆-sigma -12.2		7.5 5.0									
TSL D TSL H f [MHz] 600 625	Measu 67.3 57.1	red 25.02 24.67	1.212 3.006 sigma 0.84 0.86	Target eps	g*K) sigma	∆-eps	∆-sigma		7.5 5.0 2.5									
TSL D TSL H f [MHz] 600	Measu	red e" 25.02	1.212 3.006 sigma 0.84	Target eps 56.1 56.0	sigma 0.95 0.95	Δ-eps 2.2 1.9	<u>∆-sigma</u> -12.2 -10.1	Permittivity	7.5 5.0							• •		
TSL D TSL H 1 [MHz] 600 625 650	Measu 6 57.3 57.1 56.8 56.6 56.3	red e" 25.02 24.67 24.32 24.02 23.71	1.212 3.006 sigma 0.84 0.86 0.88 0.90 0.92	Target eps 56.1 56.0 55.9 55.8 55.7	sigma 0.95 0.95 0.96 0.96 0.96	∆-eps 2.2 1.9 1.6 1.3 1.1	Δ-sigma -12.2 -10.1 -8.0 -5.8 -3.8		7.5 5.0 2.5 0.0 -2.5 -5.0									
TSL D TSL H 600 625 650 675 700 725	Measu e' 57.3 57.1 56.8 56.6 56.3 56.1	red 25.02 24.67 24.32 24.02 23.71 23.48	1.212 3.006 sigma 0.84 0.86 0.88 0.90 0.92 0.95	Target eps 56.1 56.0 55.9 55.8 55.7 55.6	sigma 0.95 0.95 0.96 0.96 0.96 0.96	∆-eps 2.2 1.9 1.6 1.3 1.1 0.8	Δ-sigma -12.2 -10.1 -8.0 -5.8 -3.8 -1.5	Permittivity	7.5 5.0 2.5 0.0 -2.5								•	
TSL D TSL H f [MHz] 600 625 650 675 700 725 750	Measu e' 57.3 57.1 56.8 56.6 56.3 56.1 55.9	red 25.02 24.67 24.32 24.02 23.71 23.48 23.25	1.212 3.006 sigma 0.84 0.86 0.88 0.90 0.92 0.95 0.97	Target eps 56.1 56.0 55.9 55.8 55.7 55.6 <b>55.5</b>	sigma 0.95 0.95 0.96 0.96 0.96 0.96 0.96	Δ-eps 2.2 1.9 1.6 1.3 1.1 0.8 0.6	Δ-sigma -12.2 -10.1 -8.0 -5.8 -3.8 -1.5 0.7	Permittivity	7.5 5.0 2.5 0.0 -2.5 -5.0 -7.5 -10.0	500	650	700	750	800	850	900	950	1000
TSL D TSL H 600 625 650 675 700 725 <b>750</b> 775	Measu e' 57.3 57.1 56.8 56.6 56.3 56.1 55.9 55.6	red 25.02 24.67 24.32 24.02 23.71 23.48 <b>23.25</b> 23.04	1.212 3.006 sigma 0.84 0.86 0.88 0.90 0.92 0.95 0.97 0.99	Target eps 56.1 56.0 55.9 55.8 55.7 55.6 <b>55.5</b> 55.4	sigma 0.95 0.95 0.96 0.96 0.96 0.96 0.96 0.96 0.97	Δ-eps 2.2 1.9 1.6 1.3 1.1 0.8 0.6 0.3	∆-sigma -12.2 -10.1 -8.0 -5.8 -3.8 -1.5 0.7 2.9	Permittivity	7.5 5.0 2.5 0.0 -2.5 -5.0 -7.5 -10.0	500	650	700		800 guency		900	950	1000
TSL D TSL H 600 625 650 675 700 725 <b>750</b> 775 800	Measu e' 57.3 57.1 56.8 56.6 56.3 56.1 <b>55.9</b> 55.6 55.6 55.4	red e" 25.02 24.67 24.32 24.02 23.71 23.48 <b>23.25</b> 23.04 22.82	1.212 3.006 sigma 0.84 0.86 0.88 0.90 0.92 0.95 0.95 0.99 1.02	Target eps 56.1 56.0 55.9 55.8 55.7 55.6 <b>55.5</b> 55.4 55.3	sigma 0.95 0.95 0.96 0.96 0.96 0.96 0.96 0.96 0.97 0.97	Δ-eps 2.2 1.9 1.6 1.3 1.1 0.8 0.6 0.3 0.1	Δ-sigma -12.2 -10.1 -8.0 -5.8 -3.8 -1.5 0.7 2.9 5.0	Permittivity	7.5 5.0 2.5 0.0 -2.5 -5.0 -7.5 -10.0	300	650	700				900	950	1000
TSL D TSL H 600 625 650 675 700 725 750 775 800 825	Measu e' 57.3 57.1 56.8 56.6 56.3 56.1 <b>55.9</b> 55.6 55.4 55.2	red e" 25.02 24.67 24.32 24.02 23.71 23.48 23.25 23.04 22.82 22.65	1.212 3.006 sigma 0.84 0.86 0.88 0.90 0.92 0.95 0.97 0.99 1.02 1.04	Target eps 56.1 56.0 55.9 55.8 55.7 55.6 <b>55.5</b> 55.4 55.3 55.2	sigma 0.95 0.95 0.96 0.96 0.96 0.96 0.96 0.97 0.97 0.98	Δ-eps 2.2 1.9 1.6 1.3 1.1 0.8 0.6 0.3 0.1 -0.1	∆-sigma -12.2 -10.1 -8.0 -5.8 -3.8 -1.5 0.7 2.9	Permittivity	7.5 5.0 2.5 0.0 -2.5 -5.0 -7.5 -10.0	600	650	700				900	950	1000
TSL D TSL H 600 625 650 675 700 725 <b>750</b> 775 800	Measu e' 57.3 57.1 56.8 56.6 56.3 56.1 <b>55.9</b> 55.6 55.6 55.4	red e" 25.02 24.67 24.32 24.02 23.71 23.48 <b>23.25</b> 23.04 22.82	1.212 3.006 sigma 0.84 0.86 0.88 0.90 0.92 0.95 0.95 0.99 1.02	Target eps 56.1 56.0 55.9 55.8 55.7 55.6 <b>55.5</b> 55.4 55.3	sigma 0.95 0.95 0.96 0.96 0.96 0.96 0.96 0.96 0.97 0.97	Δ-eps 2.2 1.9 1.6 1.3 1.1 0.8 0.6 0.3 0.1		Permittivity	7.5 5.0 2.5 0.0 -2.5 -5.0 -7.5 -10.0		650	700				900	950	1000
TSL D TSL H 600 625 650 675 700 725 750 775 800 825 838	Measu e' 57.3 57.1 56.8 56.6 56.3 56.1 55.6 55.6 55.4 55.2 55.1	red 25.02 24.67 24.32 24.02 23.71 23.48 23.25 23.04 22.82 22.65 22.56	1.212 3.006 sigma 0.84 0.86 0.88 0.90 0.92 0.95 0.97 0.99 1.02 1.04 1.05	Target eps 56.1 56.0 55.9 55.8 55.7 55.6 55.5 55.4 55.3 55.2 55.2	sigma 0.95 0.96 0.96 0.96 0.96 0.96 0.96 0.97 0.97 0.98 0.98	Δ-eps 2.2 1.9 1.6 1.3 1.1 0.8 0.6 0.3 0.1 -0.1 -0.3		% Dev. Permittivity	7.5 5.0 2.5 -5.0 -7.5 -10.0 10.0 7.5	I	650	700				900	950	1000
TSL D TSL H 600 625 650 675 700 725 700 775 800 825 838 850	Measu e' 57.3 57.1 56.8 56.6 56.3 56.1 55.6 55.6 55.4 55.2 55.1 54.9	red 25.02 24.67 24.32 24.02 23.71 23.48 23.25 23.04 22.82 22.65 22.56 22.47	1.212 3.006 sigma 0.84 0.86 0.90 0.92 0.95 0.97 0.99 1.02 1.04 1.05 1.06	Target eps 56.1 56.0 55.9 55.8 55.7 55.6 55.5 55.4 55.3 55.2 55.2 55.2	sigma 0.95 0.96 0.96 0.96 0.96 0.96 0.96 0.97 0.97 0.98 0.98 0.99	Δ-eps           2.2           1.9           1.6           1.3           1.1           0.8           0.6           0.3           0.1           -0.3           -0.4		% Dev. Permittivity	7.5 5.0 2.5 -5.0 -7.5 -10.0 10.0 7.5		650	700				900	950	1000
TSL D TSL H 600 625 650 675 700 725 <b>750</b> 775 800 825 838 850 875	Measu Measu 57.3 57.1 56.8 56.6 56.3 56.1 55.9 55.9 55.4 55.2 55.1 54.9 54.7	red 25.02 24.67 24.32 24.02 23.71 23.48 23.25 23.04 22.65 22.56 22.56 22.47 22.34	1.212 3.006 sigma 0.84 0.86 0.90 0.92 0.95 0.97 0.99 1.02 1.04 1.05 1.06 1.09	KJ/(kg Target eps 56.1 56.0 55.9 55.8 55.7 55.6 55.4 55.2 55.2 55.2 55.2 55.2 55.2 55.2	sigma 0.95 0.95 0.96 0.96 0.96 0.96 0.96 0.96 0.97 0.97 0.97 0.98 0.98 0.99 1.02	Δ-eps           2.2           1.9           1.6           1.3           1.1           0.8           0.6           0.3           0.1           -0.1           -0.3           -0.4           -0.7	▲-sigma -12.2 -10.1 -8.0 -5.8 -3.8 -1.5 0.7 2.9 5.0 6.3 6.9 7.5 6.7 5.9 6.9	% Dev. Permittivity	7.5 5.0 2.5 -5.0 -7.5 -10.0 10.0 7.5		650	700				900	950	1000
TSL D TSL H 600 625 650 675 700 725 750 775 800 825 838 850 875 900	Measu easu 6' 57.3 57.1 56.8 56.6 56.3 56.1 55.9 55.6 55.4 55.2 55.1 54.9 54.7 54.5	red 25.02 24.67 24.32 24.42 23.71 23.48 23.71 23.48 22.55 22.56 22.47 22.34 22.21 22.24 22.24 22.21 22.28 22.21	1.212 3.006 sigma 0.84 0.86 0.90 0.92 0.95 0.97 0.99 1.02 1.04 1.05 1.06 1.09 1.11 1.14	kJ/(kd rarget eps 56.1 56.0 55.9 55.8 55.7 55.6 55.4 55.3 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.	**************************************	∆-eps           2.2           1.9           1.6           1.3           1.1           0.8           0.6           0.3           0.1           -0.3           -0.4           -0.7           -0.9           -1.3           -1.6	▲-eigma -12.2 -10.1 -8.0 -5.8 -3.8 -1.5 0.7 2.9 5.0 6.3 6.9 7.5 6.7 5.9 6.9 7.9 6.9 7.9	% Dev. Permittivity	7.5 5.0 2.5 -5.0 -7.5 -10.0 10.0 7.5		650	700				900	950	1000
TSL D TSL H 600 625 650 675 700 725 725 700 725 775 800 825 838 850 875 900 925	Measu e' 57.3 57.1 56.6 56.3 56.1 55.9 55.6 55.4 55.2 55.1 54.9 54.7 54.5 54.3	red 25.02 24.67 24.32 23.71 23.48 23.25 23.04 22.82 22.56 22.47 22.34 22.21 22.08	1.212 3.006 sigma 0.84 0.86 0.88 0.90 0.92 0.95 0.97 0.99 1.02 1.04 1.05 1.06 1.09 1.11	KJ/(kg eps 56.1 56.0 55.9 55.8 55.7 55.6 <b>55.5</b> 55.4 55.2 55.2 55.2 55.2 55.2 55.0 55.0 55.0	sigma 0.95 0.96 0.96 0.96 0.96 0.96 0.96 0.97 0.97 0.97 0.97 0.98 0.98 0.98 0.98 0.98 0.98 1.02 1.05 1.06	∆-eps           2.2           1.9           1.6           1.3           1.1           0.8           0.6           0.3           0.1           -0.1           -0.3           -0.4           -0.7           -0.9           -1.3	▲-sigma -12.2 -10.1 -8.0 -5.8 -3.8 -1.5 0.7 2.9 5.0 6.3 6.9 7.5 6.7 5.9 6.9	Dev. Permittivity	7.5 5.0 2.5 -5.0 -7.5 -10.0 7.5 5.0 2.5 5.0 2.5 0.0 2.5 0.0 2.5 0.0 0 2.5		650	700				900	950	1000

Figure D-2 750MHz Body Tissue Equivalent Matter

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Schmid & Partner Engineering AG	S	p	е	а	g	
Zeughausstrasse 43, 8004 Zurich, Switzerland						

Phone +41 44 245 9700, Fax +41 44 245 9779 info@speag.com, http://www.speag.com

#### Measurement Certificate / Material Test

Item Name	Head Tissue Simulating Liquid (HSL750V2)	
Product No.	SL AAH 075 AA (Batch: 170612-4)	
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**

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

#### Additional Information

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

	Measu	ured		Targe	t	Diff.to T	arget [%]	
f [MHz]	e'	e"	sigma	eps	sigma	∆-eps	∆-sigma	10.0
600	45.6	22.97	0.77	42.7	0.88	6.7	-13.1	× 7.5
625	45.2	22.73	0.79	42.6	0.88	6.2	-10.6	Ativitti 2.5 0.0 -2.5
650	44.9	22.49	0.81	42.5	0.89	5.6	-8.2	Ē 0.0
675	44.5	22.27	0.84	42.3	0.89	5.1	-5.8	a -2.5
700	44.2	22.05	0.86	42.2	0.89	4.6	-3.5	à -5.0
725	43.8	21.88	0.88	42.1	0.89	4.2	-1.0	-7.5
750	43.5	21.72	0.91	41.9	0.89	3.8	1.4	-10.0
775	43.2	21.55	0.93	41.8	0.90	3.4	3.7	600
800	42.9	21.38	0.95	41.7	0.90	2.9	6.0	
825	42.6	21.24	0.97	41.6	0.91	2.4	7.5	
838	42.5	21.17	0.99	41.5	0.91	2.2	8.2	
850	42.3	21.09	1.00	41.5	0.92	2.0	8.9	10.0
875	42.0	20.98	1.02	41.5	0.94	1.2	8.3	% 7.5
900	41.7	20.87	1.05	41.5	0.97	0.5	7.7	£ 5.0
925	41.5	20.76	1.07	41.5	0.98	0.0	8.7	ton 2.5
950	41.2	20.64	1.09	41.4	0.99	-0.6	9.7	2.5 0.0 -2.5
975	40.9	20.55	1.11	41.4	1.00	-1.1	10.9	
1000	40.6	20.46	1.14	41.3	1.01	-1.7	12.1	-5.0 0 -7.5

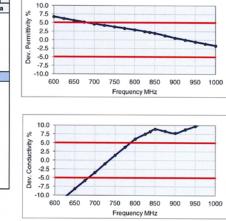


Figure D-3 750MHz Head Tissue Equivalent Matter

	FCC ID: ZNFQ710TS		SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager
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3 Composition / Info	rmation on in	gredients
The Item is composed of th	e following ingre	dients:
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-methyyl-3(2H)-isothiazolone
CAS-No. 9005-64-5	<50 %	polyoxyethylenesorbitan monolaurate
	juidelines, the pro	oduct is not a dangerous mixture and therefore not required to be

#### 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.

Schmid	& Part	iner En	igineer	ing AG						s	р		е	é	2		g			_
hone	+41 44 beag.co	245 9	700, Fa	ix +41	44 24	59779														
Meas	urem	nent	Certi	ficate	e / Ma	aterial	Test													
ltern N Produc Manufa	t No.	r		AH 19			170619-1		1900	-3800	V3)							_		
Measu	iremei	nt Met	hod																	
TSL di	electri	c para	meter	s mea:	sured	using ca	alibrated C	DAK pr	obe.											_
Setup					_															
Validat	tion re:	sults w	vere w	ithin ±	2.5%	towards	s the targe	et value	es of	Meth	anol.									_
Target								0.000												
larget	paran	neters	as de	nned i	n the I	EEE 15	28 and IE	C 6220	09 C	omplia	ince st	anda	irds.			-				_
Test C Ambie		on	Envir	onmer	nt tem	peratur	(22 ± 3)°C	and h	umi	dity c	70%					_		_		_
TSL T	emper	ature	22°C			- shandi	(	- and I												
Test D Operat			20-Ju CL	in-17																
Additi		dour																		_
TSL D		norm		g/cm	3				-			_	_		_	-		_		-
TSL H	eat-ca			kJ/(k	g*K)	Diffus	Connect fills	-				_				_				_
f [MHz]	Measu e'	e"	sigma	Targe eps		Δ-eps	arget [%] ∆-sigma		10.0	0						_				1
1900	41.8	12.2	1.3	40.0	1.4	4.5	-8.2	1	7.5	-										
1950	41.6	12.3	1.3	40.0	1.4	4.0	-4.6	Permittivity	2.1											1
2050	41.2	12.6	1.4	39.9	1.4	3.3	-0.9	L L	0.0				-	-						
2100	41.1	12.7	1.5	39.8 39.7	1.5	3.1	-0.6	Dev.	-2.5							-	-			
2200	40.7	12.9	1.6	39.6	1.6	2.7	0.2		-5.									-		Ł
2250 2300	40.6	13.0	1.6	39.6 39.5	1.6	2.5	0.5		-10.		100 230	0.95	0.970	2000	2100	220	0.950	0.97	00.90	1
2350	40.2	13.3	1.7	39.4	1.7	2.1	1.5			1900 2	100 230			cy MH		334	10 3300	u an	00.39	~~~
2400	40.0	13.4	1.8	39.3 39.2	1.8	1.8	2.1						requeri	.,						
2500	39.7	13.7	1.9	39.1	1.9	1.3	2.6	1												
2550	39.5	13.7	2.0	39.1	1.9	1.1	2.2		10.0	0		_				_	_	_		1
2600 2650	39.3	13.9	2.0	39.0 38.9	2.0	0.8	2.5	1	7.5											
2700	39.0	14.2	2.1	38.9	2.1	0.2	2.7	Auro	2.5		1	-						***	***	t.
2750 2800	38.7 38.6	14.3 14.4	2.2	38.8 38.8	2.1	-0.2	2.6	Conductivity	0.0		-	-	+							
2850	38.4	14.5	2.3	38.7	2.2	-0.8	2.6		-2.5		137								100	
2900 2950	38.2	14.6 14.7	23	38.6 38.6	2.3	-1.0	2.6 2.6	Dev.	-7.5							4				L
3000	37.9	14.8	2.5	38.5	2.4	-1.7	2.6		-10.0	1900.2	100 230	0.250	0 2700	2900	3100	330	0.350	0.37	00.30	1
3050 3100	37.7	14.8 14.9	2.5	38.4 38.4	2.5	-2.0	2.8 2.8				100 200								00 00	100
3150	37.3	15.0	2.6	38.3	2.6	-2.6	2.9						Freque	incy M	Hz					_
3200 3250	37.1 37.0	15.1 15.1	27	38.3 38.2	2.6	-3.0	2.9 3.0													
3300	36.8	15.2	2.8	38.2	2.7	-3.6	3.1													
3350 3400	36.6	15.3 15.3	2.8	38.1 38.0	2.8	-3.9	3.2													
3450	36.3	15.4	3.0	38.0	2.9	-4.5	3.4													
3500 3550	36.1	15.5 15.5	3.0	37.9	2.9	-4.8	3.5 3.6													
3600	35.8	15.6	3.1	37.8	3.0	-5.3	3.8													
3650 3700	35.7	15.7	3.2	37.8	3.1	-5.6	3.7													
3700	35.5	15.7	3.2	37.7	3.1	-6.1	3.9													
3800	35.2	15.9	3.4	37.6	3.2	-6.3	4.1													
3850	35.1	15.9	3.4	37.5	3.3	-6.6	4.1													

Figure D-5 2.4 GHz Head Tissue Equivalent Matter

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#### 2 Composition / Information on ingredients

#### 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.

Schmic	d & Par	rtner Er	nginee	ring AG	3					S	p	е	é	2	a	
Zeugha Phone info@s	+41 44	4 245 9	700, F	ax +41	44 24	5 9779									3	
Meas	suren	nent	Certi	ficat	e/M	ateria	l Test									
Item N Produc							g Liquid		L3500-	5800	V5)					
Manuf		r	SPE/		IZ AG	(Batch:	170613-	1)								
Measu	ireme	nt Met	bod													
				s mea	sured	using c	alibrated	DAK p	probe.							
Setup	Valid	ation														
Valida	tion re	sults v	vere w	ithin ±	: 2.5%	toward	s the targ	et valu	ues of I	Metha	nol.					
Targe																
farget	paran	neters	as de	fined i	n the	IEEE 15	528 and IE	C 62	209 co	mplia	nce stand	dards.	_			
Test C Ambie		ion	End	ones	ottor	north	100 - 010	0.0	hurst		100/					
TSL T	emper	ature	22°C		ni tem	peratur	(22 ± 3)°	and	numid	ity < 7	0%.					
Test D Operat			20-Ji CL	un-17												
										_						
Additi TSL D		nform		5 g/cm	3											
TSL H	eat-ca	pacity														
	Measu	ured		Targe	t	Diff.to	farget [%]									
f [MHz]	6,	e"	sigma	eps	sigma	∆-eps	∆-sigma		10.0 7.5							
3400 3500	38.6 38.5	15.03 15.00	2.84	38.0 37.9	2.81	1.5	1.1			_						
3600 3700	38.3 38.2	14.98	3.00	37.8	3.02	1.3	-0.5	Daemitholiv	2.5							
3800	38.2	14.96 14.96	3.08	37.7	3.12	1.3	-1.2 -1.9	1								
3900 4000	38.0 37.9	14.95 14.95	3.24	37.5 37.4	3.32 3.43	1.4	-2.5	6	-5.0	-						-
4100	37.8	14.96	3.41	37.2	3.53	1.5	-3.3		-10.0							
4200 4300	37.6 37.5	15.00 15.05	3.50 3.60	37.1 37.0	3.63 3.73	1.3	-3.6 -3.5		34	\$00	3900	4400 Fred	0 4 quency M	900 /Hz	5400	5900
4400	37.4	15.11	3.70	36.9	3.84	1.4	-3.5	-		_			(sectory in			
4500 4600	37.2 37.1	15.18 15.24	3.80 3.90	36.8 36.7	3.94 4.04	1.1	-3.5 -3.5	Г								
4700 4800	37.0 36.8	15.29	4.00	36.6	4.14	1.2	-3.4		10.0 7.5							
4800	36.8	15.35 15.35	4.10 4.14	36.4 36.4	4.25 4.30	1.0	-3.4 -3.6		₹ 5.0 >	-			_	-		_
4900 4950	36.7 36.6	15.38 15.39	4.19	36.3 36.3	4.35 4.40	1.0	-3.6 -3.6		Conductivity 0.0 2.5	~						
5000	36.5	15.42	4.29	36.2	4.45	0.8	-3.6		-2.5							
5050 5100	36.5 36.4	15.43 15.46	4.34	36.2	4.50	0.9	-3.6 -3.6									
5150	36.3	15.48	4.43	36.0	4.60	0.7	-3.8		-10.0	400	3900	4400		900	5400	5900
5200 5250	36.2 36.1	15.50 15.53	4.48	36.0 35.9	4.66	0.6	-3.8			100	3800		uency N		5400	5900
5300	36.1	15.55	4.58	35.9	4.76	0.6	-3.7	_	100							
5350 5400	36.0 35.9	15.56 15.57	4.63 4.68	35.8 35.8	4.81 4.86	0.5	-3.7 -3.7									
5450 5500	35.9	15.59	4.73	35.7	4.91	0.6	-3.7									
5550	35.8	15.61	4.78 4.83	35.6	4.96 5.01	0.4	-3.7									
5600 5650	35.6 35.6	15.66 15.70	4.88 4.93	35.5 35.5	5.07 5.12	0.2	-3.7 -3.6									
5700	35.5	15.72	4.98	35.4	5.17	0.2	-3.6									
5750 5800	35.4 35.4	15.76 15.78	5.04 5.09	35.4 35.3	5.22	0.1	-3.4									
5850	35.3	15.81	5.14	35.3	5.34	0.0	-3.7									
5900	35.3	15.82	5.19	35.3	5.40	0.0	-3.9									

Figure D-7 5GHz Head Tissue Equivalent Matter

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## APPENDIX E: SAR SYSTEM VALIDATION

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

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

	SAR System validation Summary – 1g														
SAR							COND.	PERM.	C	W VALIDATION		Ν	OD. VALIDATION	l	
SYSTEM #	FREQ. [MHz]	DATE	PROBE SN	PROBE TYPE	PROBE C	AL. POINT	(σ)	(ɛr)	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	
J	1750	3/13/2018	3914	EX3DV4	1750	Head	1.404	39.175	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	
K	1900	5/1/2017	7406	EX3DV4	1900	Head	1.458	40.267	PASS	PASS	PASS	GMSK	PASS	N/A	
G	2450	10/16/2017	3332	ES3DV3	2450	Head	1.880	38.615	PASS	PASS	PASS	OFDM/TDD	PASS	PASS	
G	2600	10/16/2017	3332	ES3DV3	2600	Head	2.051	38.039	PASS	PASS	PASS	TDD	PASS	N/A	
н	5250	1/31/2018	3589	EX3DV4	5250	Head	4.516	36.066	PASS	PASS	PASS	OFDM	N/A	PASS	
Н	5600	1/31/2018	3589	EX3DV4	5600	Head	4.869	35.597	PASS	PASS	PASS	OFDM	N/A	PASS	
н	5750	1/31/2018	3589	EX3DV4	5750	Head	5.112	35.351	PASS	PASS	PASS	OFDM	N/A	PASS	
I	750	3/6/2018	3287	ES3DV3	750	Body	0.951	56.970	PASS	PASS	PASS	N/A	N/A	N/A	
н	750	8/30/2017	7410	EX3DV4	750	Body	0.956	56.276	PASS	PASS	PASS	N/A	N/A	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	1900	3/9/2018	3914	EX3DV4	1900	Body	1.533	53.731	PASS	PASS	PASS	GMSK	PASS	N/A	
К	2450	5/3/2017	7406	EX3DV4	2450	Body	1.995	50.521	PASS	PASS	PASS	OFDM/TDD	PASS	PASS	
K	2600	5/3/2017	7406	EX3DV4	2600	Body	2.203	49.895	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-1

 SAR System Validation Summary – 1g

Table E-2 SAR System Validation Summary – 10g

SAR							COND.	PERM.	C	W VALIDATION		MOD. VALIDATION			
SYSTEM	FREQ. [MHz]	DATE	PROBE SN	PROBE TYPE	PROBE C	AL. POINT	(σ)	(ɛr)	SENSITIVITY	PROBE	PROBE	MOD.	DUTY FACTOR	PAR	
#								(13)	SENSITIVITT	LINEARITY	ISOTROPY	TYPE	DUTTFACTOR	FAN	
K	1750	5/1/2017	7406	EX3DV4	1750	Body	1.514	51.685	PASS	PASS	PASS	N/A	N/A	N/A	
J	1900	3/9/2018	3914	EX3DV4	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	

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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