

EX3DV4 - SN:7536 June 17, 2022

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k =
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	±9.6
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	±9.6
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	±9.6
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	±9.6
0833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
0834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	±9.6
0835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
0836	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	±9.6
0837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	±9.6
0839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
0840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)			
0841	AAD		5G NR FR1 TDD	7.67	±9.6
		5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	±9.6
0843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	±9.6
0844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
0846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
0854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
0855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
0856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
0857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	±9.6
0858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
0859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
0860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
0861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	±9.6
0863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
0864	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
0865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
0866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		
0868	AAD			5.68	±9.6
	_	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	±9.6
0869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
0870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	±9.6
0871	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
0872	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	±9.6
0873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
0874	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
0875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
0876	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	±9.6
0877	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	±9.6
0878	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
0879	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	±9.6
0880	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	±9.6
0881	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	
0882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)			±9.6
0883	AAD		5G NR FR2 TDD	5.96	±9.6
		5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6
0884	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	±9.6
0885	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
0886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
0887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
0888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	±9.6
0889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	±9.6
0890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	±9.6
0891	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	±9.6
0892	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
0897	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	±9.6
0898	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
0899	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	
0900	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 KHz)			±9.6
0901	AAD		5G NR FR1 TDD	5.68	±9.6
		5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0902	AAD	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0903	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0904	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0907	AAD	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.6
0908	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
0909	AAD	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	±9.6
0303				0.00	10.0

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10911	AAD	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10912	AAD	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10913	AAD	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10914	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6
10915	AAD	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6
10916	AAD	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10917	AAD	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10918	AAD	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10919	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10920	AAD	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10921	AAD	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10922	AAD	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	±9.6
10923	AAD	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10924	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10925	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	±9.6
10926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10929	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10930	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10931	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10932	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10934	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10935	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10937	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	±9.6
10938	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10939	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
10940	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9.6
10941	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10942	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10943	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10944	AAB	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	±9.6
10945	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10947	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10948	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10949	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10950	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10951	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	±9.6
10952	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	±9.6
10953	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	±9.6
10954		5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.6
10955	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	±9.6
10956	AAC	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	±9.6
10957	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6
10958	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	±9.6
10959	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	±9.6
0960	AAB	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	±9.6
0962	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	±9.6
0963	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	±9.6
0964	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	±9.6
0965	AAB	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	±9.6
0966	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	±9.6
0967	AAB		5G NR FR1 TDD	9.55	±9.6
0968	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	±9.6
0968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	±9.6
		5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	±9.6
0973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	±9.6
0974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	±9.6
0978	AAA	ULLA BDR	ULLA	2.23	±9.6
0979	AAA	ULLA HDR4	ULLA	7.02	±9.6
10980	AAA	ULLA HDR8	ULLA	8.82	±9.6
10981	AAA	ULLA HDRp4	ULLA	1.50	±9.6
	AAA	ULLA HDRp8	ULLA	1.44	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.31	±9.6
10984	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	±9.6
10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	±9.6
10986	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	±9.6
10987	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.53	±9.6
10988	AAA	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.38	±9.6
10989	AAA	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	±9.6
10990	AAA	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	±9.6

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

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





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
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 Apple UK

Certificate No: EUmmWV4-9481 Feb22

CALIBRATION CERTIFICATE

Object EUmmWV4 - SN:9481

Calibration procedure(s) QA CAL-02.v9, QA CAL-25.v7, QA CAL-42.v2

Calibration procedure for E-field probes optimized for close near field

evaluations in air

Calibration date: February 23, 2022

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 $(22 \pm 3)^{\circ}$ C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	C-1-11-10-11
Power meter NRP	SN: 104778	09-Apr-21 (No. 217-03291/0292)	Scheduled Calibration
Power sensor NRP-Z91	SN: 103244		Apr-22
Power sensor NRP-Z91	SN: 103245	09-Apr-21 (No. 217-03291)	Apr-22
Reference 20 dB Attenuator	SN: CC2552 (20x)	09-Apr-21 (No. 217-03292)	Apr-22
Reference Probe ER3DV6		09-Apr-21 (No. 217-03343)	Apr-22
DAE4	SN: 2328	08-Oct-21 (No. ER3-2328_Oct21)	Oct-22
DAE4	SN: 789	24-Dec-21(No. DAE4-789_Dec21)	Dec-22
Secondary Standards	ID	Check Date (in house)	Cohodulad Ob I
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-20)	Scheduled Check
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: 000110210		In house check: Jun-22
RF generator HP 8648C	SN: US3642U01700	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Network Analyzer E8358A		04-Aug-99 (in house check Jun-20)	In house check: Jun-22
HOLITOIN AMAIYZEI E0000A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct 22

Calibrated by:

Name Leif Klysner Function

Laboratory Technician

Approved by:

Niels Kuster

Quality Manager

Issued: February 23, 2022

Signature

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

Certificate No: EUmmWV4-9481_Feb22

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Calibration Laboratory of

Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst
Service suisse d'étalonnage

S Servizio svizzero di taratura 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

Glossary:

NORMx,y,z sensitivity in free space diode compression point

CF crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters

Polarization ϕ ϕ rotation around probe axis

Polarization ϑ ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., $\vartheta = 0$ is normal to probe axis

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

Sensor Angles sensor deviation from the probe axis, used to calculate the field orientation and polarization

is the wave propagation direction

Calibration is Performed According to the Following Standards:

 a) IEEE Std 1309-2005, "IEEE Standard for calibration of electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz", December 2005

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization ϑ = 0 for XY sensors and ϑ = 90 for Z sensor (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). For frequencies > 6 GHz, the far field in front of waveguide horn antennas is measured for a set of frequencies in various waveguide bands up to 110 GHz.
- 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
- The frequency sensor model parameters are determined prior to calibration based on a frequency sweep (sensor model involving resistors R, R_p, inductance L and capacitors C, C_p).
- 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.
- Sensor Offset: The sensor offset corresponds to the mechanical 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).
- Equivalent Sensor Angle: The two probe sensors are mounted in the same plane at different angles. The
 angles are assessed using the information gained by determining the NORMx (no uncertainty required).
- Spherical isotropy (3D deviation from isotropy): in a locally homogeneous field realized using an open waveguide / horn setup.

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DASY - Parameters of Probe: EUmmWV4 - SN:9481

Basic Calibration Parameters

	Sensor X	Sensor Y	Unc (k=2)
Norm (μV/(V/m) ²)	0.02169	0.02375	± 10.1 %
DCP (mV) ^B	105.0	105.0	
Equivalent Sensor Angle	-61.4	33.8	

Calibration results for Frequency Response (750 MHz - 110 GHz)

Frequency GHz	Target E-Field V/m	Deviation Sensor X dB	Deviation Sensor Y dB	Unc (k=2) dB
0.75	77.2	-0.15	-0.09	± 0.43 dB
1.8	140.4	0.08	0.07	± 0.43 dB
2	133.0	0.03	0.06	± 0.43 dB
2.2	124.8	0.05	0.06	± 0.43 dB
2.5	123.0	-0.05	-0.04	± 0.43 dB
3.5	256.2	0.07	0.01	± 0.43 dB
3.7	249.8	0.13	0.02	± 0.43 dB
6.6	41.8	0.60	0.64	± 0.98 dB
8	48.4	0.04	-0.10	± 0.98 dB
10	54.4	-0.06	-0.02	± 0.98 dB
15	71.5	0.00	-0.41	± 0.98 dB
18	85.3	0.13	0.31	± 0.98 dB
26.6	96.9	-0.02	0.00	200 15
30	92.6	0.00	-0.03	± 0.98 dB
35	93.7	0.00	0.03	± 0.98 dB
40	91.5	-0.02	0.03	± 0.98 dB
,,,	01.0	-0.02	-0.19	± 0.98 dB
50	19.6	0.00	0.02	± 0.98 dB
55	22.4	0.00	0.02	± 0.98 dB
60	23.0	-0.06	-0.02	± 0.98 dB
65	27.4	-0.49	-0.26	± 0.98 dB
70	23.9	-0.11	-0.26	± 0.98 dB
75	20.0	-0.03	-0.04	± 0.98 dB
75	14.8	-0.07	-0.01	± 0.98 dB
80	22.5	0.31	0.27	± 0.98 dB
85	22.8	0.21	0.00	± 0.98 dB
90	23.8	0.02	0.08	± 0.98 dB
92	23.9	0.10	-0.17	± 0.98 dB
95	20.5	-0.34	-0.30	± 0.98 dB
97	24.4	-0.07	-0.19	± 0.98 dB
100	22.6	-0.12	-0.13	± 0.98 dB
105	22.7	0.06	0.10	± 0.98 dB
110	19.7	0.23	0.28	± 0.98 dB

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%.

^B Numerical linearization parameter: uncertainty not required.

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



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DASY - Parameters of Probe: EUmmWV4 - SN:9481

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max dev.	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	134.9	± 3.0 %	± 4.7 %
		Y	0.00	0.00	1.00		65.6		
10352-	Pulse Waveform (200Hz, 10%)	X	1.55	60.00	13.70	10.00	6.0	± 1.7 %	± 9.6 %
AAA	6	Y	1.52	60.00	14.35	1000000000000	6.0	235 53.40 100	
10353-	Pulse Waveform (200Hz, 20%)	X	16.00	88.00	21.00	6.99	12.0	± 1.0 %	± 9.6 %
AAA		Y	0.99	60.00	13.56		12.0	1	
10354-	Pulse Waveform (200Hz, 40%)	X	0.62	60.00	11.38	3.98	23.0	± 1.4 %	± 9.6 %
AAA		Y	0.59	60.00	12.59		23.0		
10355-	Pulse Waveform (200Hz, 60%)	X	0.37	60.00	10.64	2.22	27.0	± 1.1 %	± 9.6 %
AAA		Y	0.46	60.00	11.51		27.0		ACCOUNT NAME OF THE PARTY OF TH
10387-	QPSK Waveform, 1 MHz	X	0.92	60.00	11.22	1.00	22.0	± 1.8 %	± 9.6 %
AAA		Y	0.98	60.00	11.43		22.0		17.
10388-	QPSK Waveform, 10 MHz	X	1.23	60.00	11.66	0.00	22.0	± 1.0 %	± 9.6 %
AAA		Y	1.32	60.00	11.87		22.0		
10396-	64-QAM Waveform, 100 kHz	X	1.83	60.34	13.81	3.01	17.0	± 0.7 %	± 9.6 %
AAA		Y	1.92	60.92	14.41		17.0		
10399-	64-QAM Waveform, 40 MHz	X	2.07	60.00	12.23	0.00	19.0	± 1.3 %	± 9.6 %
AAA		Y	2.07	60.00	12.50		19.0		
10414-	WLAN CCDF, 64-QAM, 40MHz	X	3.10	60.00	12.68	0.00	12.0	± 1.0 %	± 9.6 %
AAA		Υ	3.00	60.00	12.94		12.0		

Note: For details on all calibrated UID parameters see Appendix

Calibration Results for Linearity Response

Frequency GHz	Target E-Field V/m	Deviation Sensor X dB	Deviation Sensor Y dB	Unc (k=2) dB
0.9	50.0	-0.12	0.14	± 0.2 dB
0.9	100.0	-0.05	0.10	± 0.2 dB
0.9	500.0	0.03	0.04	± 0.2 dB
0.9	1000.0	0.05	0.05	± 0.2 dB
0.9	1500.0	0.03	0.04	± 0.2 dB
0.9	2000.0	0.00	0.02	± 0.2 dB

Sensor Frequency Model Parameters (750 MHz - 55 GHz)

	Sensor X	Sensor Y
R (Ω)	76.21	73.75
$R_{p}(\Omega)$	93.36	95.55
L (nH)	0.12535	0.10621
C (pF)	0.2303	0.2646
C _p (pF)	0.0696	0.0696

Sensor Frequency Model Parameters (55 GHz - 110 GHz)

	Sensor X	Sensor Y
R (Ω)	34.93	35.01
$R_p(\Omega)$	95.04	94.98
L (nH)	0.03143	0.03357
C (pF)	0.2251	0.2142
C _p (pF)	0.1349	0.1242



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DASY - Parameters of Probe: EUmmWV4 - SN:9481

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V-1	T6
Χ	29.1	212.06	33.80	0.92	2.65	5.00	0.00	0.79	1.01
Υ	26.2	187.92	32.97	0.92					1.01
		107.02	02.31	0.92	2.49	5.00	0.00	1.05	1.01

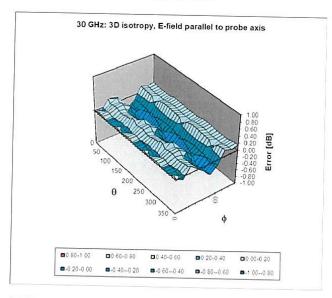
Other Probe Parameters

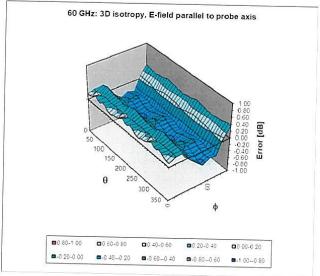
Sensor Arrangement	Rectangular
Connector Angle (°)	70.7
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	320 mm
Probe Body Diameter	8 mm
Tip Length	23 mm
Tip Diameter	8.0 mm
Probe Tip to Sensor X Calibration Point	1.5 mm
Probe Tip to Sensor Y Calibration Point	1.5 mm



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Deviation from Isotropy in Air f = 30, 60 GHz





Probe isotropy for E_{tot}: probe rotated $\phi=0^\circ$ to 360°, tilted from field propagation direction \overline{k} Parallel to the field propagation ($\psi=0^\circ$ - 90°) at 30 GHz: deviation within \pm 0.32 dB Parallel to the field propagation ($\psi=0^\circ$ - 90°) at 60 GHz: deviation within \pm 0.42 dB

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Appendix: Modulation Calibration Parameters

	Rev	Communication System Name	Group	PAR (dB)	Unc ^E (k=2)
0	70000000	CW	CW	0.00	± 4.7 °
10010		SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	200000000000000000000000000000000000000	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012		IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013		IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021		GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
10023		GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024		GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025		EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026		EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027		GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	± 9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	7 69/00/2003	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	4.53	± 9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	3.83	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	8.01	± 9.6 %
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.77	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	THE SHALL CONTRACT STATES	4.10	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	CDMA2000	4.57	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	7.78	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	AMPS	0.00	± 9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	13.80	± 9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	DECT	10.79	± 9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	TD-SCDMA	11.01	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	GSM	6.52	± 9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.12	± 9.6 %
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	2.83	± 9.6 %
10062	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	3.60	± 9.6 %
10063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.68	± 9.6 %
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	8.63	± 9.6 %
10065	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10066	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.00	± 9.6 %
10067	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	9.38	± 9.6 %
10068	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.12	± 9.6 %
10069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.24	± 9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	10.56	± 9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	± 9.6 %
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	± 9.6 %
	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 9.6 %
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6 %
10076	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6 %
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6 %
10081	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) CDMA2000 (1xRTT, RC3)	WLAN	11.00	± 9.6 %
	CAB		CDMA2000	3.97	± 9.6 %
	DAC	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
		GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
		UMTS-FDD (HSUPA, Subtest 2)	WCDMA		± 9.6 %
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM		± 9.6 %

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10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	E 67	. 0.00/
10101	CAE		LTE-FDD	5.67 6.42	± 9.6 %
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	CAG		LTE-TDD	9.29	± 9.6 %
10104	CAG		LTE-TDD	700 100 100	± 9.6 %
10105	CAG		LTE-TDD	9.97	± 9.6 %
10108	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	10.01	± 9.6 %
10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)		5.80	± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	6.43	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	5.75	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)		6.44	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.59	± 9.6 %
10114		IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	LTE-FDD	6.62	± 9.6 %
10115	-	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.10	± 9.6 %
10116	_	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.46	± 9.6 %
10117		IEEE 802.11n (HT Mixed, 13.5 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10118	CAD	IEEE 802.11n (HT Mixed, 13.5 Mbps, 16-QAM)	WLAN	8.07	± 9.6 %
10119		IEEE 802.11n (HT Mixed, 61 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	WLAN	8.13	± 9.6 %
10141	CAE		LTE-FDD	6.49	± 9.6 %
10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	± 9.6 %
10143	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10143		LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	± 9.6 %
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	± 9.6 %
	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	± 9.6 %
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	± 9.6 %
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	± 9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10151	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	± 9.6 %
10152	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	± 9.6 %
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	± 9.6 %
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
10160	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	± 9.6 %
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	± 9.6 %
10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	± 9.6 %
10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	± 9.6 %
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	± 9.6 %
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	± 9.6 %
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10173	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	
10174	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10175	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10176	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	1 9404 5 00 100
10177	CAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10178	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD		± 9.6 %
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.52	± 9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10181	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	6.50	± 9.6 %
			בוב-רטט	5.73	± 9.6 %

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10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10183	AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10184	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10185	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	V. 3100015 acces
10186	AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10187	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD		± 9.6 %
10188	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	5.73	± 9.6 %
10189	AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.52	± 9.6 %
10193	CAD	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	6.50	± 9.6 %
10194	CAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.09	± 9.6 %
10195	CAD	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)		8.12	± 9.6 %
10196	CAD	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.21	± 9.6 %
10197	CAD	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.10	± 9.6 %
10198	CAD	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10219	CAD	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.27	± 9.6 %
10220	CAD	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.03	± 9.6 %
10221	CAD	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10222	CAD		WLAN	8.27	± 9.6 %
10223	CAD	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	± 9.6 %
10223		IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 %
	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	± 9.6 %
10225	CAB	UMTS-FDD (HSPA+)	WCDMA	5.97	± 9.6 %
10226	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	± 9.6 %
10227	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	± 9.6 %
10228	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	± 9.6 %
10229	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10230	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10231	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	± 9.6 %
10232	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10233	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10234	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10235	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10236	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10237	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10240	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	± 9.6 %
10242	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD		± 9.6 %
10243	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.86	± 9.6 %
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	9.46	± 9.6 %
10245	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10246	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)		10.06	± 9.6 %
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.30	± 9.6 %
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	9.91	± 9.6 %
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	10.09	± 9.6 %
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.29	± 9.6 %
10251	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	9.81	± 9.6 %
10252	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	10.17	± 9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.24	± 9.6 %
10254		LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	9.90	± 9.6 %
	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	10.14	± 9.6 %
		LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.20	± 9.6 %
	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
100000000000000000000000000000000000000	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
7,6-007,6-007,7-007,007	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.34	± 9.6 %
	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	± 9.6 %
		100 (00-1 DIVIA, 100 /0 DD. 3 WHZ. 64-(JAM)	LTE-TDD	9.97	± 9.6 %

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10261 CAD						
10262 CAG	1026	1 CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTF-TDD	9.24	+96%
10263 CAG	10262	2 CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)			
10264 CAG	10263	3 CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)			
10265 CAG	10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)			10 100 100 100 100 100 100 100 100 100
10266 CAG	10265	CAG		The same of the sa		
10267 CAG	10266	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)			Individualities (COM
10268 CAF	10267	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)			
10288 CAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-CAM) LTE-TDD 10.13 ± 9.6 % 10270 CAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, CPSK) LTE-TDD 9.58 ± 9.6 % 10275 CAB UMTS-FDD (HSUPA, Subtest 5, 3GPP Rei8.10) WCDMA 3.96 ± 9.6 % 10275 CAA UMTS-FDD (HSUPA, Subtest 5, 3GPP Rei8.14) WCDMA 3.96 ± 9.6 % 10275 CAA PHS (OPSK, BW B8MHz, Relieff 0.5) PHS 11.81 ± 9.6 % 10276 CAA PHS (OPSK, BW B8MHz, Relieff 0.5) PHS 11.81 ± 9.6 % 10279 CAA PHS (OPSK, BW B8MHz, Relieff 0.38) PHS 11.81 ± 9.6 % 10290 AAB CDMA2000, RC1, SOS, Full Rate CDMA2000 3.46 ± 9.6 % 10291 AAB CDMA2000, RC1, SOS, Full Rate CDMA2000 3.46 ± 9.6 % 10293 AAB CDMA2000, RC3, SOS, Full Rate CDMA2000 3.46 ± 9.6 % 10293 AAB CDMA2000, RC3, SOS, Full Rate CDMA2000 3.46 ± 9.6 % 10293 AAB CDMA2000, RC3, SOS, Full Rate CDMA2000 3.50 ± 9.6 % 10293 AAB CDMA2000, RC3, SOS, Full Rate CDMA2000 3.50 ± 9.6 % 10293 AAB CDMA2000, RC3, SOS, Full Rate CDMA2000 3.50 ± 9.6 % 10293 AAB CDMA2000, RC1, SO3, 148h Rate 25 fr. CDMA2000 12.49 ± 9.6 % 10297 AAD LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.72 ± 9.6 % 10299 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ± 9.6 % 10390 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, GPSK) LTE-FDD 5.72 ± 9.6 % 10390 AAA IEEE 802.16e WMAX (29:18, 5ms, 10MHz, QPSK, PUSC) WMAX 12.03 ± 9.6 % 10390 AAA IEEE 802.16e WMAX (29:18, 5ms, 10MHz, QPSK, PUSC) WMAX 12.57 ± 9.6 % 10390 AAA IEEE 802.16e WMAX (29:18, 5ms, 10MHz, GPSK, PUSC) WMAX 12.57 ± 9.6 % 10390 AAA IEEE 802.16e WMAX (29:18, 5ms, 10MHz, GPSK, PUSC) WMAX 12.59 ± 9.6 % 10390 AAA IEEE 802.16e WMAX (29:18, 5ms, 10MHz, GPSK, PUSC) WMAX 12.59 ± 9.6 % 10390 AAA IEEE 802.16e WMAX (29:18, 5ms, 10MHz, GPSK, PUSC) WMAX 12.59 ± 9.6 % 10390 AAA IEEE 802.16e WMAX (29:18, 5ms, 10MHz, GPSK, PUSC) WMAX 14.46 ± 9.6 %	10268	CAF				The second sections
10270 CAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) LTE-TDD 9.58 ±9.6 % 10275 CAB UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) WCDMA 4.87 ±9.6 % 10276 CAB UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) WCDMA 4.87 ±9.6 % 10278 CAA PHS (QPSK, BW 884MHz, Rolloff 0.5) PHS 11.81 ±9.6 % 10278 CAA PHS (QPSK, BW 884MHz, Rolloff 0.38) PHS 11.81 ±9.6 % 10279 CAA PHS (QPSK, BW 884MHz, Rolloff 0.38) PHS 11.81 ±9.6 % 10290 AAB CDMA2000, RC1, SOS5, Full Rate CDMA2000 3.91 ±9.6 % 10292 AAB CDMA2000, RC1, SOS5, Full Rate CDMA2000 3.91 ±9.6 % 10292 AAB CDMA2000, RC3, SOS5, Full Rate CDMA2000 3.39 ±9.6 % 10292 AAB CDMA2000, RC3, SOS2, Full Rate CDMA2000 3.39 ±9.6 % 10295 AAB CDMA2000, RC3, SOS3, Full Rate CDMA2000 3.30 ±9.6 % 10295 AAB CDMA2000, RC3, SOS3, Full Rate CDMA2000 3.50 ±9.6 % 10295 AAB CDMA2000, RC3, SOS3, Full Rate CDMA2000 3.50 ±9.6 % 10295 AAB CDMA2000, RC3, SOS3, Full Rate CDMA2000 3.50 ±9.6 % 10299 AAD LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.81 ±9.6 % 10299 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.81 ±9.6 % 10299 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, GPSK) LTE-FDD 6.63 ±9.6 % 10300 AAA IEEE 802.169 WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL) WIMAX 12.57 ±9.6 % 10300 AAA IEEE 802.169 WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL) WIMAX 12.57 ±9.6 % 10300 AAA IEEE 802.169 WIMAX (29:18, 5ms, 10MHz, GPSK, PUSC, 3CTRL) WIMAX 12.57 ±9.6 % 10300 AAA IEEE 802.169 WIMAX (29:18, 5ms, 10MHz, G4OAM, PUSC) WIMAX 12.57 ±9.6 % 10300 AAA IEEE 802.169 WIMAX (29:18, 5ms, 10MHz, 64OAM, PUSC) WIMAX 14.49 ±9.6 % 10300 AAA IEEE 802.169 WIMAX (29:18, 5ms, 10MHz, 64OAM, PUSC) WIMAX 14.46 ±9.6 % 10300 AAA IEEE 802.169 WIMAX (29:18, 5ms, 10MHz, 64OAM, PUSC) WIMAX 14.46 ±9.6 % 10300 AAA IEEE 802.169 WIMAX (29:18, 5ms, 10MHz, 64OAM, PUSC) W	10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	11. a.	100000 000	
10274 CAB UMTS-FDD (HSUPA, Subtest 5, 3GPP Reiß.10) WCDMA 4.87	10270	CAF	LTE-TDD (SC-FDMA, 100% BB, 15 MHz, OPSK)	The second secon		
10275 CAA	10274		UMTS-FDD (HSUPA, Subtest 5, 3GPP Bells 10)			
10277 CAA PHS (OPSK) PHS 11.81 ±9.6 % 10279 CAA PHS (OPSK, BW 884MHz, Rolloff 0.5) PHS 11.81 ±9.6 % 10279 CAA PHS (OPSK, BW 884MHz, Rolloff 0.38) PHS 11.81 ±9.6 % 10290 AAB CDMA2000, RC1, SOS5, Full Rate CDMA2000 3.91 ±9.6 % 10291 AAB CDMA2000, RC3, SOS5, Full Rate CDMA2000 3.46 ±9.6 % 10292 AAB CDMA2000, RC3, SOS5, Full Rate CDMA2000 3.39 ±9.6 % 10292 AAB CDMA2000, RC3, SOS3, Full Rate CDMA2000 3.39 ±9.6 % 10293 AAB CDMA2000, RC3, SOS3, Full Rate CDMA2000 3.39 ±9.6 % 10295 AAB CDMA2000, RC3, SOS3, Full Rate CDMA2000 3.39 ±9.6 % 10295 AAB CDMA2000, RC3, SOS3, Full Rate CDMA2000 12.49 ±9.6 % 10297 AAD LTE-FDD (SC-FDMA, 50% RB, 20 MHz, OPSK) LTE-FDD 5.81 ±9.6 % 10299 AAD LTE-FDD (SC-FDMA, 50% RB, 30 MHz, OPSK) LTE-FDD 5.72 ±9.6 % 10299 AAD LTE-FDD (SC-FDMA, 50% RB, 30 MHz, OFSK) LTE-FDD 5.72 ±9.6 % 10300 AAD LTE-FDD (SC-FDMA, 50% RB, 30 MHz, OFSK) LTE-FDD 6.60 ±9.6 % 10301 AAA IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, OPSK, PUSC) WIMAX 12.03 ±9.6 % 10303 AAA IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, OPSK, PUSC) WIMAX 12.57 ±9.6 % 10303 AAA IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, OFSK, PUSC) WIMAX 12.57 ±9.6 % 10303 AAA IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, OFSK, PUSC) WIMAX 12.57 ±9.6 % 10303 AAA IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, OFSK, PUSC) WIMAX 12.57 ±9.6 % 10303 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, OPSK, PUSC) WIMAX 14.46 ±9.6 % 10303 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, OPSK, PUSC) WIMAX 14.46 ±9.6 % 10303 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, OPSK, PUSC) WIMAX 14.46 ±9.6 % 10303 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, OPSK, DUSC) WIMAX 14.46 ±9.6 % 10303 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, OPSK, DUSC) WIMAX 14.46 ±9.6 % 10303 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, OPSK, DUSC)	10275	CAB			000,000,00	
10278 CAA				100000000	(2) St. 25 (4)	
10279 CAA				700.00		
10290 AAB	PROJECT POTENTIAL					± 9.6 %
10291 AAB CDMA2000, RC3, SOS5, Full Rate CDMA2000 3.46 ±9.6 % 10292 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.39 ±9.6 % 10293 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.39 ±9.6 % 10293 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.39 ±9.6 % 10295 AAB CDMA2000, RC1, SO3, Full Rate CDMA2000 12.49 ±9.6 % 10295 AAB CDMA2000, RC1, SO3, Full Rate CDMA2000 12.49 ±9.6 % 10297 AAD LTE-FDD (SC-FDMA, SO% RB, 20 MHz, QPSK) LTE-FDD 5.81 ±9.6 % 10298 AAD LTE-FDD (SC-FDMA, SO% RB, 3 MHz, DPSK) LTE-FDD 6.50 ±9.6 % 10299 AAD LTE-FDD (SC-FDMA, SO% RB, 3 MHz, G-QAM) LTE-FDD 6.39 ±9.6 % 10300 AAD LTE-FDD (SC-FDMA, SO% RB, 3 MHz, G-QAM) LTE-FDD 6.60 ±9.6 % 10301 AAA IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL) WIMAX 12.57 ±9.6 % 10301 AAA IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL) WIMAX 12.57 ±9.6 % 10303 AAA IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, GADAM, PUSC) WIMAX 12.52 ±9.6 % 10305 AAA IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, GADAM, PUSC) WIMAX 12.52 ±9.6 % 10305 AAA IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, GADAM, PUSC) WIMAX 12.52 ±9.6 % 10306 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, GADAM, PUSC) WIMAX 14.67 ±9.6 % 10306 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, GADAM, PUSC) WIMAX 14.67 ±9.6 % 10309 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, GADAM, PUSC) WIMAX 14.67 ±9.6 % 10301 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, GADAM, PUSC) WIMAX 14.67 ±9.6 % 10301 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, GADAM, PUSC) WIMAX 14.67 ±9.6 % 10301 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, GADAM, PUSC) WIMAX 14.67 ±9.6 % 103030 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, GADAM, PUSC) WIMAX 14.49 ±9.6 % 103030 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, GADAM, PUSC) WIMAX 14.49 ±9.6 % 103030 AAA IEEE 802.16e WIMAX (29:18,				The second secon	12.18	± 9.6 %
10292 AAB					3.91	± 9.6 %
10293 AAB CDMA2000, RC3, SO3, Full Rate CDMA2000 3.50 ±9.6 % 10295 AAB CDMA2000, RC3, SO3, 1/81h Rate 25 fr. CDMA2000 12.49 ±9.6 % 10297 AAD LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.81 ±9.6 % 10299 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ±9.6 % 10299 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, GPSK) LTE-FDD 5.72 ±9.6 % 10299 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, GPSK) LTE-FDD 6.39 ±9.6 % 10290 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, GB-QAM) LTE-FDD 6.639 ±9.6 % 10300 AAA LEEE 802.16e WIMAX (29:18, 5ms, 10MHz, GPSK, PUSC, 3 WIMAX 12.03 ±9.6 % 10301 AAA LEEE 802.16e WIMAX (29:18, 5ms, 10MHz, GPSK, PUSC, 3 WIMAX 12.03 ±9.6 % 10302 AAA LEEE 802.16e WIMAX (29:18, 5ms, 10MHz, GPSK, PUSC, 3 WIMAX 12.57 ±9.6 % 10303 AAA LEEE 802.16e WIMAX (29:18, 5ms, 10MHz, GPSK, PUSC, 3 WIMAX 12.57 ±9.6 % 10305 AAA LEEE 802.16e WIMAX (31:15, 5ms, 10MHz, G4QAM, PUSC) WIMAX 11.86 ±9.6 % 10305 AAA LEEE 802.16e WIMAX (31:15, 10ms, 10MHz, G4QAM, PUSC) WIMAX 11.86 ±9.6 % 10305 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, G4QAM, PUSC) WIMAX 14.47 ±9.6 % 10308 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, G4QAM, PUSC) WIMAX 14.46 ±9.6 % 10308 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, G4QAM, PUSC) WIMAX 14.46 ±9.6 % 10308 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, G4QAM, PUSC) WIMAX 14.46 ±9.6 % 10308 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, G4QAM, PUSC) WIMAX 14.46 ±9.6 % 10301 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, G4QAM, PUSC) WIMAX 14.46 ±9.6 % 10301 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, G4QAM, PUSC) WIMAX 14.46 ±9.6 % 10301 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, G4QAM, PUSC) WIMAX 14.47 ±9.6 % 10301 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, G4QAM, PUSC) WIMAX 14.48 ±9.6 % 10301 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, G4QAM, PUSC) WIMAX 14		100000000		CDMA2000	3.46	± 9.6 %
10295 AAB CDMA2000, RC1, SO3, 1/8/B Hale 25 fr. CDMA2000 12,49 ± 9,6 % 10297 AAD LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.81 ± 9.6 % 10298 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.81 ± 9.6 % 10299 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 6.39 ± 9.6 % 10300 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-OAM) LTE-FDD 6.60 ± 9.6 % 10300 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-OAM) LTE-FDD 6.60 ± 9.6 % 10301 AAA IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC) WIMAX 12.57 ± 9.6 % 10302 AAA IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC) WIMAX 12.57 ± 9.6 % 10303 AAA IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64OAM, PUSC) WIMAX 12.52 ± 9.6 % 10304 AAA IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64OAM, PUSC) WIMAX 15.24 ± 9.6 % 10305 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64OAM, PUSC) WIMAX 15.24 ± 9.6 % 10306 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64OAM, PUSC) WIMAX 14.67 ± 9.6 % 10307 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64OAM, PUSC) WIMAX 14.67 ± 9.6 % 10309 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64OAM, PUSC) WIMAX 14.49 ± 9.6 % 10309 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64OAM, PUSC) WIMAX 14.46 ± 9.6 % 10301 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64OAM, PUSC) WIMAX 14.46 ± 9.6 % 10301 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64OAM, PUSC) WIMAX 14.46 ± 9.6 % 10301 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64OAM, PUSC) WIMAX 14.46 ± 9.6 % 10301 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64OAM, PUSC) WIMAX 14.46 ± 9.6 % 10303 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64OAM, PUSC) WIMAX 14.46 ± 9.6 % 10303 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64OAM, PUSC) WIMAX 14.57 ± 9.6 % 10303 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64OAM, PUSC) WIMAX 14.58 ± 9.6 % 10303 AAA IEEE 802.16e WIMAX	100000000000000000000000000000000000000				3.39	± 9.6 %
10297 AAD LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.81 ±9.6 % 10299 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) LTE-FDD 5.72 ±9.6 % 10300 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) LTE-FDD 6.60 ±9.6 % 10301 AAA LEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC) WIMAX 12.03 ±9.6 % 10302 AAA LEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC) WIMAX 12.57 ±9.6 % 10303 AAA LEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC) WIMAX 12.57 ±9.6 % 10303 AAA LEEE 802.16e WIMAX (29:18, 5ms, 10MHz, G4QAM, PUSC) WIMAX 12.52 ±9.6 % 10304 AAA LEEE 802.16e WIMAX (31:15, 5ms, 10MHz, G4QAM, PUSC) WIMAX 12.52 ±9.6 % 10305 AAA LEEE 802.16e WIMAX (31:15, 10ms, 10MHz, G4QAM, PUSC) WIMAX 11.86 ±9.6 % 10305 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, G4QAM, PUSC) WIMAX 14.67 ±9.6 % 10307 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, G4QAM, PUSC) WIMAX 14.67 ±9.6 % 10307 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, G4QAM, PUSC) WIMAX 14.67 ±9.6 % 10303 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, GPSK, PUSC) WIMAX 14.49 ±9.6 % 10303 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, GPSK, PUSC) WIMAX 14.49 ±9.6 % 10303 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, GAM, PUSC) WIMAX 14.57 ±9.6 % 10313 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, GAM, PUSC) WIMAX 14.58 ±9.6 % 10314 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, GAM, PUSC) WIMAX 14.58 ±9.6 % 10315 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, GAM, PUSC) WIMAX 14.58 ±9.6 % 10313 AAA LEEE 802.11e WIMAX (29:18, 10ms, 10MHz, GAM, PUSC) WIMAX 14.58 ±9.6 % 10313 AAA LEEE 802.11e WIMAX (29:18, 10ms, 10MHz, GAM, PUSC) WIMAX 14.58 ±9.6 % 10313 AAA LEEE 802.11e WIMAX (29:18, 10ms, 10MHz, GAM, PUSC) WIMAX 14.58 ±9.6 % 10313 AAA LEEE 802.11e WIMAX (29:18, 10ms, 10MHz, GAM, PUSC) WIMAX 14.58 ±9.6 % 10313 AAA LEEE 802.11e WIMAX (29				CDMA2000	3.50	± 9.6 %
10298 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ±9.6 % 10299 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) LTE-FDD 6.39 ±9.6 % 10301 AAA LEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC) WIMAX 12.03 ±9.6 % 10302 AAA LEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC) WIMAX 12.57 ±9.6 % 10303 AAA LEEE 802.16e WIMAX (29:18, 5ms, 10MHz, GPSK, PUSC, SCTRL) WIMAX 12.57 ±9.6 % 10303 AAA LEEE 802.16e WIMAX (31:15, 5ms, 10MHz, GAQAM, PUSC) WIMAX 12.52 ±9.6 % 10304 AAA LEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC) WIMAX 11.86 ±9.6 % 10305 AAA LEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC) WIMAX 11.86 ±9.6 % 10305 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC) WIMAX 14.67 ±9.6 % 10306 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC) WIMAX 14.40 ±9.6 % 10309 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 10PSK, PUSC) WIMAX 14.49 ±9.6 % 10309 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WIMAX 14.49 ±9.6 % 10309 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WIMAX 14.46 ±9.6 % 10301 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WIMAX 14.58 ±9.6 % 10313 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WIMAX 14.58 ±9.6 % 10313 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WIMAX 14.58 ±9.6 % 10313 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WIMAX 14.58 ±9.6 % 10313 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WIMAX 14.58 ±9.6 % 10313 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WIMAX 14.58 ±9.6 % 10313 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WIMAX 14.58 ±9.6 % 10313 AAA LEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WIMAX 14.58 ±9.6 % 10313 AAA LEEE 802.116e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WIMAX 14.59 ±9.6 % 1				CDMA2000	12.49	± 9.6 %
10299 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) LTE-FDD 6.39 ±9.6 % 10301 AAA IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC) WiMAX 12.03 ±9.6 % 10303 AAA IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL) WiMAX 12.03 ±9.6 % 10303 AAA IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL) WiMAX 12.03 ±9.6 % 10304 AAA IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC) WiMAX 12.57 ±9.6 % 10304 AAA IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC) WiMAX 11.86 ±9.6 % 10305 AAA IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC) WiMAX 11.86 ±9.6 % 10306 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC) WiMAX 11.86 ±9.6 % 10307 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC) WiMAX 14.67 ±9.6 % 10308 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC) WiMAX 14.49 ±9.6 % 10309 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC) WiMAX 14.49 ±9.6 % 10309 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WiMAX 14.49 ±9.6 % 10310 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WiMAX 14.45 ±9.6 % 10311 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WiMAX 14.58 ±9.6 % 10311 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WiMAX 14.58 ±9.6 % 10311 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WiMAX 14.59 ±9.6 % 10311 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WiMAX 14.59 ±9.6 % 10311 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WiMAX 14.59 ±9.6 % 10313 AAA IDEN 1:3 IDE	120000000000000000000000000000000000000		LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10300 AAA LEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)			LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10300 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-FDD 6.60 ± 9.6 % 10302 AAA IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC) WIMAX 12.03 ± 9.6 % 10303 AAA IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL) WIMAX 12.57 ± 9.6 % 10304 AAA IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC) WIMAX 12.52 ± 9.6 % 10305 AAA IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC) WIMAX 11.86 ± 9.6 % 10305 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC) WIMAX 11.86 ± 9.6 % 10306 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC) WIMAX 14.67 ± 9.6 % 10307 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC) WIMAX 14.49 ± 9.6 % 10309 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 0PSK, PUSC) WIMAX 14.49 ± 9.6 % 10309 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WIMAX 14.46 ± 9.6 % 10310 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WIMAX 14.46 ± 9.6 % 10311 AAD LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK, AMC 2x3 WIMAX 14.57 ± 9.6 % 10313 AAA IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 0PSK, AMC 2x3 WIMAX 14.57 ± 9.6 % 10313 AAA IDEN 1:3 IDEN 10.51 ± 9.6 % 10314 AAA IDEN 1:3 IDEN 10.51 ± 9.6 % 10315 AAB IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc) WLAN 1.71 ± 9.6 % 10315 AAB IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc) WLAN 1.71 ± 9.6 % 10355 AAA Pulse Waveform (200Hz, 10%) Generic 6.99 ± 9.6 % 10355 AAA Pulse Waveform (200Hz, 60%) Generic 6.99 ± 9.6 % 10355 AAA Pulse Waveform (200Hz, 60%) Generic 6.27 ± 9.6 % 10355 AAA Pulse Waveform (200Hz, 60%) Generic 6.27 ± 9.6 % 10368 AAA QPSK Waveform, 10 MHz Generic 6.27 ± 9.6 % 10368 AAA QPSK Waveform, 10 MHz Generic 6.27 ± 9.6 % 10368 AAA QPSK Waveform, 10 MHz Generic 6.27 ± 9.6 % 10368 AAA CPSK Waveform, 10 MHz Generic 6.27 ± 9.6 %	0.00000000			LTE-FDD	6.39	± 9.6 %
10301 AAA IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, WiMAX 12.03		44.000	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD		
10302 AAA			IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WiMAX		
10303 AAA IEEE 802.166 WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC) WIMAX 12.52			IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL)	WiMAX		
10304 AAA IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC) WiMAX 11.86 ± 9.6 % 10305 AAA IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC) WiMAX 15.24 ± 9.6 % 10306 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC) WiMAX 14.67 ± 9.6 % 10307 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WiMAX 14.49 ± 9.6 % 10308 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WiMAX 14.49 ± 9.6 % 10309 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WiMAX 14.46 ± 9.6 % 10310 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3) WiMAX 14.58 ± 9.6 % 10311 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3) WiMAX 14.57 ± 9.6 % 10311 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3 WiMAX 14.57 ± 9.6 % 10313 AAA IDEN 1:3 IDEN 10511 ± 9.6 % 10313 AAA IDEN 1:6 IDEN 10.511 ± 9.6 % 10314 AAA IDEN 1:6 IDEN 10.511 ± 9.6 % 10315 AAB IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc) WLAN 1.711 ± 9.6 % 10316 AAB IEEE 802.11b WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc) WLAN 8.36 ± 9.6 % 10316 AAA Pulse Waveform (200Hz, 20%) Generic 10.00 ± 9.6 % 10352 AAA Pulse Waveform (200Hz, 20%) Generic 6.99 ± 9.6 % 10353 AAA Pulse Waveform (200Hz, 20%) Generic 6.99 ± 9.6 % 10355 AAA Pulse Waveform (200Hz, 20%) Generic 5.10 ± 9.6 % 10356 AAA Pulse Waveform (200Hz, 20%) Generic 5.22 ± 9.6 % 10356 AAA Pulse Waveform (200Hz, 20%) Generic 5.10 ± 9.6 % 10356 AAA Pulse Waveform (200Hz, 20%) Generic 5.22 ± 9.6 % 10356 AAA Pulse Waveform (200Hz, 20%) Generic 5.22 ± 9.6 % 10356 AAA Pulse Waveform (200Hz, 20%) Generic 5.22 ± 9.6 % 10356 AAA Pulse Waveform (200Hz, 20%) Generic 5.22 ± 9.6 % 10356 AAA Pulse Waveform (200Hz, 20%) Generic 5.22 ± 9.6 % 10356 AAA Pulse Waveform (200Hz, 20%) Generic 5.22 ± 9			IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)			110001110010000
10305 AAA		AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WiMAX		-
10306 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC) WiMAX 14.67	10305	AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC)			
10307 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC) WiMAX 14.49 ± 9.6 % 10308 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WiMAX 14.46 ± 9.6 % 10309 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM,AMC 2x3) WiMAX 14.58 ± 9.6 % 10310 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM,AMC 2x3) WiMAX 14.57 ± 9.6 % 10311 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3 WiMAX 14.57 ± 9.6 % 10311 AAA IDEN 1:3 IDEN		AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC)			
10308 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) WiMAX 14.46 ± 9.6 % 10310 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM,AMC 2x3) WiMAX 14.58 ± 9.6 % 10311 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3 WiMAX 14.57 ± 9.6 % 10311 AAA IEEE 802.116 WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3 WiMAX 14.57 ± 9.6 % 10313 AAA IDEN 1:3 IDEN 1:3 IDEN 10.51 ± 9.6 % 10314 AAA IDEN 1:6 IDEN 10.51 ± 9.6 % 10315 AAB IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc) WLAN 1.71 ± 9.6 % 10316 AAB IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc) WLAN 8.36 ± 9.6 % 10316 AAB IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc) WLAN 8.36 ± 9.6 % 10352 AAA Pulse Waveform (200Hz, 10%) Generic 10.00 ± 9.6 % 10353 AAA Pulse Waveform (200Hz, 10%) Generic 6.99 ± 9.6 % 10354 AAA Pulse Waveform (200Hz, 40%) Generic 3.98 ± 9.6 % 10355 AAA Pulse Waveform (200Hz, 60%) Generic 2.22 ± 9.6 % 10356 AAA Pulse Waveform (200Hz, 80%) Generic 5.10 ± 9.6 % 10387 AAA Pulse Waveform (200Hz, 80%) Generic 5.10 ± 9.6 % 10388 AAA QPSK Waveform, 1 MHz Generic 5.10 ± 9.6 % 10399 AAA 64-QAM Waveform, 100 kHz Generic 6.27 ± 9.6 % 10399 AAA 64-QAM Waveform, 100 kHz Generic 6.27 ± 9.6 % 10400 AAE IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc) WLAN 8.37 ± 9.6 % 10401 AAE IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc) WLAN 8.53 ± 9.6 % 10402 AAE IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc) WLAN 8.50 ± 9.6 % 10404 AAB CDMA2000 (1xEV-DO, Rev. 0) CDMA2000 3.76 ± 9.6 % 10404 AAB CDMA2000 (1xEV-DO, Rev. 0) CDMA2000 3.76 ± 9.6 % 10404 AAB CDMA2000 (1xEV-DO, Rev. 0) CDMA2000 5.22 ± 9.6 % 10404 AAB CDMA2000 (1xEV-DO, Rev. 0) CDMA2000 5.22 ± 9.6 % 10404 AAB CDMA2000 (1xEV-DO, Rev. 0) CDMA2000 5.22 ± 9.6 % 10404 AAB CDMA2000 (1xEV-DO, Rev. 0)	10307	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC)		AV. A. C. C. C. C.	F 75000000000000000000000000000000000000
10309 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM,AMC 2x3) WiMAX 14.58 ± 9.6 % 10310 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3 WiMAX 14.57 ± 9.6 % 10311 AAD LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK) LTE-FDD 6.06 ± 9.6 % 10313 AAA iDEN 1:3 iDEN 10.51 ± 9.6 % 10.51 ± 9.6 % 10.51 4.06 %	10308	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)		1 63 69 2000	
10310 AAA IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3 WiMAX 14.57 ± 9.6 % 10311 AAD LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK) LTE-FDD 6.06 ± 9.6 % 10313 AAA iDEN 1:3 iDEN 10.51 ± 9.6 % 10314 AAA iDEN 1:6 iDEN 13.48 ± 9.6 % 10315 AAB IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc) WLAN 1.71 ± 9.6 % 10316 AAB IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc) WLAN 8.36 ± 9.6 % 10317 AAD IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc) WLAN 8.36 ± 9.6 % 10352 AAA Pulse Waveform (200Hz, 10%) Generic 10.00 ± 9.6 % 10353 AAA Pulse Waveform (200Hz, 20%) Generic 6.99 ± 9.6 % 10354 AAA Pulse Waveform (200Hz, 40%) Generic 3.98 ± 9.6 % 10355 AAA Pulse Waveform (200Hz, 60%) Generic 2.22 ± 9.6 % 10356 AAA Pulse Waveform (200Hz, 80%) Generic 0.97 ± 9.6 % 10387 AAA QPSK Waveform, 10 MHz Generic 5.10 ± 9.6 % 10398 AAA QPSK Waveform, 10 MHz Generic 5.22 ± 9.6 % 10399 AAA 64-QAM Waveform, 10 MHz Generic 6.27 ± 9.6 % 10399 AAA 64-QAM Waveform, 40 MHz Generic 6.27 ± 9.6 % 10400 AAE IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc) WLAN 8.57 ± 9.6 % 10402 AAE IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc) WLAN 8.53 ± 9.6 % 10402 AAE IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc) WLAN 8.53 ± 9.6 % 10404 AAB CDMA2000 (1xEV-DO, Rev. 0) CDMA2000 3.76 ± 9.6 % 10404 AAB CDMA2000 (1xEV-DO, Rev. 0) CDMA2000 3.77 ± 9.6 % 10404 AAB CDMA2000 (1xEV-DO, Rev. A) CDMA2000 5.22 ± 9.6 % 10404 AAB CDMA2000 (1xEV-DO, Rev. A) CDMA2000 5.22 ± 9.6 % 10404 AAB CDMA2000 (1xEV-DO, Rev. A) CDMA2000 5.22 ± 9.6 % 10404 AAB CDMA2000 (1xEV-DO, Rev. A) CDMA2000 5.22 ± 9.6 % 10404 AAB CDMA2000 (1xEV-DO, Rev. A) CDMA2000 5.22 ± 9.6 % 10404 AAB CDMA2000 (1xEV-DO, Rev. A) CDMA2000 5.22 ± 9.6 % 10404 AAB CDMA2000 (1xEV-DO, Rev. A) CDM	10309	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM,AMC 2x3)			
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10406 AAB CDMA2000, RC3, SO32, SCH0, Full Rate CDMA2000 5.22 ± 9.6 %				CDMA2000	3.76	± 9.6 %
10410 AAG LTE-TDD (SC-FDMA 1 BB 10 MHz OPSK III Sub-234 7 0.0)	10.202.000.000			CDMA2000	3.77	± 9.6 %
10410 AAG LTE-TDD (SC-FDMA, 1 HB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9) LTE-TDD 7.82 ± 9.6 %			LTE TDD (SC FDMA 4 BB 46 AN)	CDMA2000	5.22	± 9.6 %
	10410	AAG	LTE-TOD (SC-FDMA, 1 HB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %

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10414	4 AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	5 AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	WLAN	1.54	± 9.6 %
10416	S AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10417	7 AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10418	3 AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short)	WLAN	8.19	± 9.6 %
10422	AAC	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	100 00000000000000000000000000000000000
10423	AAC	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAC	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAC	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAC	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAC	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD		± 9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	44.04.5	8.34	± 9.6 %
10435	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	WCDMA	8.60	± 9.6 %
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.82	± 9.6 %
10448	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.56	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.53	± 9.6 %
10450	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51	± 9.6 %
10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	LTE-FDD	7.48	± 9.6 %
10453	AAD	Validation (Square, 10ms, 1ms)	WCDMA	7.59	± 9.6 %
10456	AAC	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc)	Test	10.00	± 9.6 %
10457	AAA	UMTS-FDD (DC-HSDPA)	WLAN	8.63	± 9.6 %
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	WCDMA	6.62	± 9.6 %
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	6.55	± 9.6 %
10460	AAA	UMTS-FDD (WCDMA, AMR)	CDMA2000	8.25	± 9.6 %
10461	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	WCDMA	2.39	± 9.6 %
10462	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	7.82	± 9.6 %
10463	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.30	± 9.6 %
10464	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	8.56	± 9.6 %
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	7.82	± 9.6 %
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	Property of Contract of	8.32	± 9.6 %
10467	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	8.57	± 9.6 %
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	7.82	± 9.6 %
10469	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10470	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	8.56	± 9.6 %
10471	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	7.82	± 9.6 %
10472	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)		8.32	± 9.6 %
10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	8.57	± 9.6 %
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	7.82	± 9.6 %
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)		8.32	± 9.6 %
10479	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	8.57	± 9.6 %
10480	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)		7.74	± 9.6 %
10481	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD LTE-TDD	8.18	± 9.6 %
10482	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	8.45	± 9.6 %
10483	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)	LTE-TDD	7.71	± 9.6 %
10484	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.39	± 9.6 %
10485	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	8.47	± 9.6 %
10486	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	7.59	± 9.6 %
10487	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.38	± 9.6 %
10488	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	8.60	± 9.6 %
			LIC-IUU	7.70	± 9.6 %

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