

July 19, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	UncE k = 2
10687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6
10688	AAC	IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6
10689	AAC	IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.55	±9,6
0680	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8,20	±9.6
0691	AAC	IEEE 802,11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8,25	±9.6
10692	AAC	IEEE 802,11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6
10693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6
10694	AAC.	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLAN	8.57	=9.6
0695	AAC	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.78	±9.6
0696	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	TO STATE OF STREET	
10697	AAC	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	8,91	±9.6
0696	AAC	IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)	THE RESIDENCE OF THE PARTY OF T	8.61	+9.6
10699	AAC	IEEE 802,11ax (40 MHz, MGS4, 90pc duty cycle)	WLAN	8.89	±9.6
0700	AAC	IEEE 802,11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.82	±9.6
0701	AAC		WLAN	8,73	±9.6
0702	AAC	IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.86	±9.6
	AAC	IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	8,70	±9.6
10703	and the second second second	IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
0704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9,6
0705	AAC	IEEE 802.11ax (40 MHz; MCS10, 90pc duty cycle)	WLAN	8.69	±9.6
0706	AAC	IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±9.6
10707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.32	±9.6
0.70#	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
0709	AAC	IEEE 802,11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
0710	AAC	IEEE 802.11ax (40 MHz, MGS3, 99pc duty cycle)	WLAN	8,29	±9.5
0711	AAC	IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±9.6
10712	AAC	IEEE 802.11ex (40 MHz, MCS5, 99pc duty cycle)	WLAN	8.67	19.6
10713	AAC	IEEE 802,11ex (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.33	±9.6
10714	AAC	IEEE 802,11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.26	±9.6
0715	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.45	±9.6
0719	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.30	±9.6
0717	AAC	IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle)	WLAN	B.48	±9.6
0718	AAC	IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.24	19.6
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.81	
0720	AAC	IEEE 802,11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10721	AAC	IEEE 902.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	-	
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)		8.76	±9.6
0723	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.55	±9.6
0724	AAC	IEEE 802.11ax (80 MHz, MCSS, 90pc duty cycle)	WLAN	8.70	±9.6
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.90	±9.6
0726	AAC		WLAN	8.74	±9.6
-	AAC	IEEE 802.11ax (80 MHz, MGS7, 90pc duty cycle)	WLAN	8.72	±9.6
0727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6
10728		IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)	WLAN.	8.65	±9.6
0729	AAC	IEEE 802,11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	±9.6
10730	AAC	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.67	±9.6
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN	8,42	±9.6
0732	AAC	IEEE 802.11as (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.46	±9.6
0733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.40	+9.6
0734	AAC	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN	8,25	±9,8
0735	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8,33	±9.6
0736	AAC	IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.27	±8.6
0737	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.36	±9.6
0738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6
0739	AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)	WLAN.	8.29	±9.6
0740	AAG	IEEE 802,11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.6
0741	AAG	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	19.6
0.742	AAG	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	8.43	19.6
0743	AAG	IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	
0744	AAC	IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN		±9.6
0745	AAC	IEEE 802,11ax (160 MHz, MCS2, 90pc duty cycle)		9.16	±9.6
0.746	AAC	IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN	8.93	±9.5
0747	AAC		WLAN	9,11	19.6
0748	And the second	EEE 802,11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN	9.04	±9.6
eminora de la companya del la companya de la compan	AAC	IEEE 802,11ax (160 MHz, MCS5, 90pc duty cycle)	WLAN	8.93	±9.6
0749	AAC	IEEE 802,11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN	8.90	19.6
0750	AAC	IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle)	WLAN.	8.79	±9.6
0751	AAC	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
0.752	AAC	IEEE 802.11ax (166 MHz, MCS8, 90pc duty cycle)	WLAN	8.81	±9.6

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10753	AAC	EEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)	WLAN	9.00	±8.6
10754	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN	8.94	±9.6
0755	AAC	IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.64	±9.6
0756	AAC	IEEE 802,11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8,77	±9,6
10757	AAC	IEEE 802,11ax (160 MHz, MCS2, 99pc duty cycle)	WLAN	6.77	±9.5
10758	AAC	IEEE 802,11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.69	±9.6
10759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±9.6
10760	AAC	IEEE 902.11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN	8.49	±9.6
10761	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.58	19.6
10.762	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.49	±9.6
10763	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.53	19.6
10764	AAC	IEEE 802,11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.54	19.6
10765	AAC	IEEE 802.11ax (160MHz, MCS10, 99pc duty cycle)	WLAN	8.54	19.6
10766	AAC	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8,51	±9.6
10767	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9.6
10768	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	SG NR FR1 TDD	8.01	±9.6
10769	AAD	5G NR (CP-OFDM: 1 RB, 15MHz, QPSK, 15kHz)	5G NR FR1 TDD	: 8.01	±9.6
10770	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	SG NR FR1 TDD	8.02	±9.6
10771	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10772	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.6
10773	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.00	±9.6
10774	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10775	AAD	5G NR (CP-OFDM, 50% RB, 5MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.31	±9.6
10776	AAD	5G NR (CP-OFDM, 50% RB, 16 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.8
10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
1077B	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.6
10779	AAC	50 NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	SG NR FR1 TDD	8.42	±9.6
10780	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	SG NR FR1 TDD	8.38	±9.6
10781	AAD	5G NR (OP-OFDM, 50% RB, 40 MHz, OPSK, 15kHz)	5G NR FR1 TDD	8.38	±9.6
10782	DAA	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	±9.6
10783	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10784	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FRI TDD	8.29	±9/6
10795	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	9G NR FR1 TOD	8.40	±9.6
10786	AAD	SG NR (CP-OFOM, 100% RB, 20 MHz, OPSK, 15 kHz)	5G NR FRI TOD	8.35	±9.6
10787	AAD	SG NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDO	B.44	±9.6
10788	AAD	5G NR (CP-QFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDO	8.39	±9.6
10789	GAA	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDO	8.37	±9.6
10790	AAD	SG NR (CP-QFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	50 NR FR1 TDO	B.39	±9.6
10791	AAE	5G NR (CP-OFOM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDO	7.83	±9.6
10792	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 36 kHz)	5G NR FR1 TDD	7.92	±9.6
10793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	±9.6
10794	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	29.6
10795	AAD	5G NR (CP-DFDM, 1 R8, 25 MHz, QPSK, 30 kHz)	5G NR FRI TDD	7.84	±9.6
10796	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FRI TDD	7.82	±9.6
10797	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FRI TDD	8,01	- James
10.798	AAD	5G NR (CP-OPDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6 ±9.6
10799	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	50 NR FR1 TDD	7.93	±9.6
10801	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 MHz)	5G NR FRI TDD	7.89	±9.5
10802	AAD	5G NR (CP-OFDM, 1 R8, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
10803	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	
10805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	56 NR FR1 TDD	8.34	19.6
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	±9.6
10809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, OPSK, 30 kHz)	5G NR FR1 TDD		19.5
01801	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
0812	AAD	5G NR (CP-OFDM, 50% RB, 60MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	19.6
0817	AAE	5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
	American Inc.	5G NR (CP-OFDM, 100% RB, 10MHz, QPSK, 30MHz)	The first benefit of the community of the	8.35	±9.6
10819	AAD	5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 30%Hz)	5G NR FR1 TDD	8.34	±9.6
10820	AAD	5G NR (CP-OFDM, 100% R8, 20MHz, QPSK, 30MHz)	5G NR FR1 TDD	8.33	19.6
0821	AAD	5G NR (CP-OFOM, 100% RB, 25MHz, CIPSK, 30MHz)	5G NR FR1 TDD	8.30	±9.6
10822	AAD	5G NR (CP-OFDM, 100% RB, 25MHz, QPSK, 30KHz)	SG NR FR1 TDD	8,41	±9.6
10823	AAD	5G NR (CP-OFDM, 100% R8, 40 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	8.41	±9.6
-	AAD		5G NA FR1 TDD	8.36	29.6
10824	100000000000000000000000000000000000000	5G NR (CP-OFOM, 100% RB, 50 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	8.39	±9.6
0825	AAD	5G NR (CP-DFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	8.41	±9.6
0827	AAD	5G NR (CP-OFDM, 100% R8, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	8.42	±9.5
	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	UncE k = 2
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NA 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, 15MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	±9.6
10832	AAD	5G NR (CP-OFDM, 1 R8, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	±9.6
10833	AAD	5G NR (CP-OFDM, 1 PB, 25 MHz, GPSK, 50 kHz)	5G NR FR1 TDD	7.70	±9.6
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TOD	7.75	±9.6
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9,6
10836	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, GPSK, 60 kHz)	5G NA FA1 TOD	7.86	±9.6
10837	AAD	SG NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TOD	7.68	±9.6
10839	AAD	5G NR (CP-OFDM, 1 R8, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TOD	7,70	±9.6
10840	AAD	5G NR (CP-OFDM, 1 RB, 90MHz, QPSK, 60kHz)	5G NR FR1 TDD	7.67	±0.6
10841	AAD	5G NR (CP-CFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	±9.6
10843	AAD	6G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 80 kHz)	5G NR FR1 TOD	8,49	±9.6
10844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	B.34	±9.6
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8,41	±9.6
10854	AAD	SG NR (CP-OFDM, 100% RB, 10 MHz, OPSK, 60 kHz)	5G NA FR1 TDD	8.34	±9.6
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9,6
10856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10857	(JAA	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	50 NR FR1 TOD	8.35	±9.6
10858	AAD	SG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	19.6
10859	AAD	5G NR (CP-OFOM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10850	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G.NR FR1 TDD	8.41	±9.6
10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NA FR1 TDD	B.40	19.6
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9,6
10864	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10885	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, CPSK, 60 kHz)	50 NR FR1 TDD	0.41	±9.6
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,68	±9,6
10868	AAD	5G NR (DFT-a-OFDM, 100% RB, 100MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	±9.6
10869	1100	5G NR (DFT-8-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	SG NR FR2 TDD	5.75	±9.6
10870	AAE	5G NR (DFT-8-OFDM, 100% RB, 100MHz, QPSK, 120KHz)	5G NR FR2 TDD	5.86	±9.6
10871	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 18QAM, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10872	AAE	5G NR (DFT-6-OFDM, 100% RB, 100MHz, 16QAM, 120kHz)	6G NR FR2 TDD	6.52	±9.6
10874	AAE	5G NR (DFT-e-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10875	AAE	SG NR (DFT-s-OFDM, 100% RB, 100MHz, 84QAM, 120 kHz)	5G NR FR2 TDD	5.65	±9.6
10876	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	SG NR FR2 TDD	7.78	±9.6
10877	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	±9.6
10878	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	±9.6
10879	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10880	AAE		50 NR FR2 TDD	8,12	±9.6
10881	AAE	SG NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) SG NR (DFT-6-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.38	±9,6
10882	AAE		5G NR FR2 TDD	5,75	±9.6
10883	AAE	SG NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) SG NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5,96	±9.6
10884	AAE		5G NR FR2 TDD	8.57	±9.6
0885	AAE	8G NR (DFT-s-OFDM, 100% RB, 50 MHz, 19QAM, 120 kHz)	5G NR FR2 TDD	6.53	±9.6
10886	AAE	SG NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) 5G NR (DFT-s-OFDM, 180% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDO	6.61	+9.6
0887	AAE	5G NR (CP-QFDM, 1 RB, 50 MHz, QP8K, 120 kHz)	5G NR FR2 TDO	6.65	£9.6
10888	AAE	5G NR (CP-OFDM, 100% RB. 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7,78	±9.6
10889	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 18QAM, 120 kHz)	5G NR FR2 TDD	0.35	±9.6
10890	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TD0	8.02	19.6
10891	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 MHz)	5G NR FR2 TDD	8,40	±9.6
0892	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8,13	19,6
10897	AAC	5G NR (DFT-e-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR2 TDD	8,41	±9,6
0898	AAB	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,66	±9.6
0899	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FRI TDD	5.67	±9.6
0900	AAB	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	5.67	±9.6
0901		5G NR (DFTs-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0902	AAB	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0903	AAB	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	SG NR FR1 TOD	5.68	±9.6
0904	AAB	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	5.68	±9.6
0905	AAB	SG NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0906	AAB	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0907	AAC	5G NR (DFT-s-OFDM, 10% RB, 5 MHz, QPSK, 30 kHz)	50 NR FR1 TDD	5.68	±9.6
or settler	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.6
0.908		Section for the control of the mile (1975), 30 KHZ	5G NR FR1 TDD	5.93	±9.5
0908	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	50 NR FR1 TDD	5.96	19.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unch k =
10911	AAB	5G NR (DFT-s-OFDM, 50% R8, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,93	±9.6
10912	AAB	5G NR (DFT-6-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	5.84	±9.6
10913	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9,6
0914	AAB	5G NR (DFT-6-OFOM, 50% R8, 50MHz, QPSK, 30kHz)	5G NR FR1 TDD	5.85	±9.6
10915	AAB	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,83	±9.6
0917	AAB		5G NR FR1 TDD	5,87	±9,6
0918	AAC	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
0919	AAB	5G NR (DFT-s-OFOM, 100% RB, 5MHz, QPSK, 30kHz)	5G NR FR1 TDD	5,86	±9.6
0920	AAB	5G NR (DFT-e-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR (DFT-e-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	9G NR FR1 TDD	5.86	±9.6
10921	AAB	5G NR (DFT=0-OFDM, 100% RB, 20MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	5,87	±9,6
0922	AAB	5G NR (DFT-8-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	19.6
0923	AAB	5G NR (DFT-8-OFDM, 100% RB, 30MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82 5.84	19.6
0924	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	19.6
0925	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	5.95	±9.6
10926	AAB	5G NR (DFT-e-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	19.6
10927	AAB	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	5.94	19.6
0928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)	SG NR FR1 FDD	5.52	19.6
10929	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
0930	AAC	5G NR (DFT-e-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
0931	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
0932	AAC	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, OPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
0933	AAC	5G NR (DFT-e-OFOM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
0934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, OPSK, 15 kHz)	SG NR FR1 FDD	5.51	±9.6
0935	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
0936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5MHz, QPSK, 15NHz)	5G NR FR1 FDD	5.90	19.6
10937	AAC	5G NR (DFT-a-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	±9.6
0938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
0939	AAC.	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
0940	AAC	5G NR (DFT-s-OFOM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9.6
0941	AAC	5G NR (DFT-e-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
0942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5,85	±9.6
0943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
0944	AAC	5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.81	±9.6
0945	AAC	5G NR (DFT-s-OFDM, 100% RB, 10MHz, 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	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10948	AAC	SG NR (DFT:s-OFDM, 100% RB, 25MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.94	±9.6
10949	AAC	5G NR (DFT-a-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	SG NR FR1 FDD	5.87	±9,6
0960	AAC	5G NR (DFT-e-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	SG NR FR1 FDD	5.94	±9.6
0951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	±9,6
0952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)	5G NR FR1 FDD	8.25	±9.6
0953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 NHz)	5G NR FR1 FDD	8,15	±9,6
0965	AAA	5G NR Dt. (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.6
0966	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) SG NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.42	±9.6
0967	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	SG NR FR1 FDD	8.14	±9.6
0858	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6
0959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-DAM, 30 kHz)	SG NR FR1 FDD	8.33	±9.6
0960	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	±9.6
0961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	±9.6
0962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz)	5G NR FR1 TDD	9.40	±9.6
0963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 15kHz)	5G NR FR1 TDD	9.55	±9.6
0964	AAG	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TOD	9.29	±9.6
0965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FRI TOD	9.37	±9.6
0988	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	19.6
0967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	8.42	±9.6
0968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	19.6
0972	AAB	6G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDO	11.59	±9.6
0973	BAA	5G NR (DFTs-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	±9.6
0974	EAA	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	±9.6
0978	AAA	ULLA BOR	ULLA	1.16	±9.6
0.978	AAA	ULLA HDR4	ULLA	8.58	±9.6
0980	AAA	ULLA HDR8	ULLA	10.32	19.6
0981	AAA.	ULLA HDRp4	ULLA	3.19	±9.6
0982	AAA	ULLA HDRb8	ULLA	3.43	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc E $k=2$
10983	AAA	SG NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TOD	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	±9.5
10985	AAA	SG NR DL (CP-OFDM, TM 3.1, 50 MHz, 84-QAM, 30 kHz)	5G NR FR1 TDD	9.50	19.6
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	19.6
10989	AAA	5G NR DL (CP-OFDM, YM 3.1, 80 MHz, 84-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 TOD	9.52	19.6
11003	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15kHz)	5G NR FR1 TDD	10.24	±9.6
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	10.73	+9.6
11005	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8,70	+9.6
11006	AAA	5G NR DL (CP-OFOM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.55	+9.6
11007	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.46	+9.6
11008	AAA	5G NR DL (CP-GFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.51	±9.6
11009	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz)	SG NR FR1 FDD	8.76	+9.6
11010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.95	±9.6
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.96	±9.6
11012	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.68	±9.6
11013	AAA	IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
11014	AAA	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8.45	±9.0
11015	AAA	IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
11016	AAA	IEEE 802 11be (320 MHz, MCS4, 99pc duty cycle)	WLAN	8.44	±9.6
11017	AAA	IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)	WLAN	8.41	±9:6
11018	AAA	IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle)	WLAN	8.40	±9.6
11019	AAA	IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	+9.6
11020	AAA	IEEE 802,11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.27	±9.6
11021	AAA	IEEE 802,11be (320 MHz, MCS9, 99pc duty cycle)	WLAN	8.46	±9.6
11022	AAA	EEE 802,11be (320 MHz, MCS10, 99pc duty cycle)	WLAN	8.36	±9.6
11023	AAA	IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)	WLAN	8.09	±9.6
11024	AAA	IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	+9.6
11025	AAA	IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)	WLAN	8.37	+9.6
11026	AAA	IEEE 802.11be (320 MHz. MCS0, 99pc duty cycle)	WLAN	8.39	+9.6

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 Kallbrierdienst Service suisse d'étalonnage Servizio svizzero di taratura C 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

HCT

Gyeonggi-do, Republic of Korea

Certificate No.

EX-7655_May23

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:7655

Calibration procedure(s)

QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6,

QA CAL-25.v8

Calibration procedure for dosimetric E-field probes

Calibration date

May 25, 2023

This calibration certificate documents the tracesbilly 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 NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
OCP DAK-3.5 (weighted)	SN: 1249	20-Oct-22 (OCP-DAK3.5-1249_Oct22)	Oct-23
OCP DAK-12	SN: 1016	20-Oct-22 (OCP-DAK12-1016_Oct22)	Oct-23
Reference 20 dB Attenuator	SN: CC2552 (20x)	30-Mar-23 (No. 217-03809)	Mar-24
DAE4	SN: 660	16-Mar-23 (No. DAE4-660_Mar23)	Mar-24
Reference Probe ES3DV2	SN: 3013	06-Jan-23 (No. ES3-3013 Jan23)	Jan-24

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power mater E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-22)	In house check: Jun-24
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

Name Function Calibrated by Aidonia Georgiadou Laboratory Technician Approved by Sven Kühn Technical Manager Issued: May 25, 2023

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

Certificate No: EX-7655 May23

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Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





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Schweizerischer Kalibrierdienst Service suisse d'étalonnage C 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

tissue simulating liquid TSL 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 ϕ φ rotation around probe axis

 θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., θ = 0 is Polarization &

normal to probe axis

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) IEC/IEEE 62209-1528, 'Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) 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 θ = 0 (f ≤ 900MHz in TEM-cell; f > 1800MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E2-field uncertainty inside TSL (see helow ConvEl
- 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. 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 ≤ 800MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800MHz. 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).

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Parameters of Probe: EX3DV4 - SN:7655

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm (μV/(V/m) ²) ^A	0.50	0.63	0.52	±10.1%
DCP (mV) B	106.5	106.0	103.0	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		dB	B dBõV	С	dB	mV	Max dev.	Max Unc ^E k = 2
0	CW	X	0.00	0.00	1.00	0.00	124.5	±1.5%	±4.7%
		Y	0.00	0.00	1.00		124.5		
		2	0.00	0.00	1.00		124.9		
10352	Pulse Waveform (200Hz, 10%)	X	1.50	60.60	6.37	10.00	60.0	±3.4%	±9.6%
	2	Y	1.41	60.00	5.80		60.0		
		Z	1.50	60.47	6.11		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	0.83	60.00	4.93	6.99	80.0	±2.4%	±9.6%
	1811 2 121	Y	0.82	60.00	4.61		80.0		
		Z	0.78	60.00	4.49		80.0		
10354	Puise Waveform (200Hz, 40%)	X	22.00	72.00	7.00	3.98	95.0	±2.4%	±9.6%
		Y	0.11	138.78	0.33	1.00	95.0		
		Z	0.18	120.82	5.14		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	4.81	159.97	8.13	2.22	120.0	±1.5%	±9.6%
		Y	5.63	159.99	1.88		120.0		
		Z	19.93	159.93	13.49		120.0		
10387	QPSK Waveform, 1 MHz	X	0.52	63.98	11.63	1,00	150.0	±4.9%	±9.6%
	TOTAL TERMINATION AND A STREET	Y	0.43	60.68	10.05	11,21550	150.0		11000
		Z	0.62	63.30	11.47		150.0		
10388	QPSK Waveform, 10 MHz	X	1.30	65.84	13.68	0.00	150.0	±1.1%	±9.6%
	A DECEMBER AND AND STREET OF STREET	Y	1.15	63.67	12.45	OVERTOR	150.0	200000	
		Z	1.47	66.02	14.13		150.0		
10396	64-QAM Waveform, 100 kHz	X	1.86	61.55	10.50	3.01	150.0	+2.5%	±9.6%
	1 전 시계에 되었다. (10 10 전 10 10 10 10 10 10 10 10 10 10 10 10 10	Y	1.60	63.70	15.39	2003/3/3/3/	150.0	- Street Se	- Paris
		Z	1.60	63.67	15.80		150.0		
10399	64-QAM Waveform, 40 MHz	X	2.78	66.22	14.98	0.00	150.0	±3.0%	±9.6%
	The transfer of the second of	Y	2.80	66.09	14.81	STORE	150.0	-C*********	
		Z	2.93	66.22	15.12		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	3.77	65.85	15.17	0.00	150.0	±4.9%	±9.6%
	0.0 CONTROL OF THE PERSON OF THE POST 1700	Y	3.79	65.85	15.07	1000000	150.0		2000
		7	4.03	65.75	15.33		150.0		

Note: For details on UID parameters see Appendix

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%.

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A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

B Unsertization parameter uncertainty for maximum specified field strength.

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



Parameters of Probe: EX3DV4 - SN:7655

Sensor Model Parameters

	C1 fF	C2 fF	α V-1	T1 msV ⁻²	T2 ms V ⁻¹	T3 ms	T4 V-2	T5 V-1	T6
К.	10.3	74.50	33.52	4.46	0.00	4.96	0.00	0.70	0.95
γ.	9.8	71.17	33.62	3.26	0.00	4.90	0.41	0.00	1.00
2	13.4	100.47	35.60	0.92	0.00	4.93	0.00	0.07	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	-48.7°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1.mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3-4 mm for an Area Scan job.



Parameters of Probe: EX3DV4 - SN:7655

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
750	41.9	0.89	9.65	10.09	10.01	0.39	1.27	±12.0%
835	41.5	0.90	9.20	9.46	9.58	0.39	1.27	±12.0%
900	41.5	0.97	9.07	9.36	9.28	0.38	1.27	±12.0%
1640	40.2	1,31	8.14	8.78	8.71	0.49	1.27	±12.0%
1750	40.1	1.37	8.19	8.75	8.46	0.28	1.27	±12.0%
1900	40.0	1.40	7.83	8.30	8.10	0.31	1.27	±12.0%
2300	39.5	1.67	7.58	8.04	7.88	0.33	1,27	±12.09
2450	39.2	1.80	7.51	7.97	7.82	0.32	1.27	±12.09
2600	39.0	1,96	7.42	7.88	7.75	0.30	1.27	±12.09
3300	38.2	2.71	6.93	7.38	7.21	0.36	1.27	±14.09
3500	37.9	2.91	6.83	7.27	7.11	0.38	1.27	±14.09
3700	37.7	3.12	6.79	7.25	7.06	0.37	1.27	±14.03
3900	37.5	3.32	6.73	7.22	7.03	0.38	1.27	±14.09
4100	37.2	3.53	6.51	7:00	6.81	0.39	1.27	±14.05
4400	36.9	3.84	6.40	6.88	6.70	0.39	1.27	±14.05
4600	36.7	4.04	6.35	6.84	6.65	0.39	1,27	±14.09
4800	36.4	4.25	6.30	6.76	6.61	0.38	1.27	±14.09
4950	36.3	4.40	5.88	6.36	6.22	0.44	1,36	±14.09
5250	35.9	4.71	5.56	6.02	5.90	0.36	1.62	±14.09
5600	35.5	5.07	4.82	5.22	5.12	0.41	1.67	±14.09
5750	35.4	5.22	4.93	5.33	5.20	0.39	1.75	±14.09
5800	35.3	5.27	4.83	5.21	5.10	0.40	1.78	±14.09

E 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, 126, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 5-19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

The probles are cationated using itsues simulating liquidic (TSL) final devise for a read of by isses than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10%. If TSL with deviations from the target of less than ±5% are used, the calibration uncertainties are 11.1% for 0.7-3 GHz and 13.1% for 3-8 GHz.

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G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less. than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3-6 GHz at any distance larger than half the probe 5p diameter from the boundary.

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EX3DV4 - SN:7655 May 25, 2023

Parameters of Probe: EX3DV4 - SN:7655

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
6500	34.5	6.07	5.49	5.90	5.77	0.20	2.00	±18.6%

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The probes are calibrated using issue simulating figures (TSL) that deviate for above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

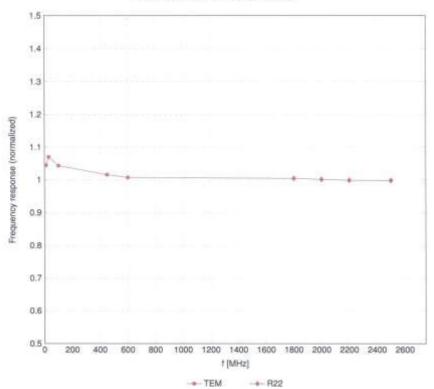
The probes are calibrated using issue simulating figures (TSL) that deviate for a and a by less than ±10% from the target values (typically better than ±6%) and are valid for TSL, with deviations of up to ±10%.

Alpha/Depth are desermined 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; below ±2% for frequencies between 3-6 GHz; and below ±4% for frequencies between 6-10 GHz at any distance larger than half the probe tip dismeter from the boundary.



Frequency Response of E-Field

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



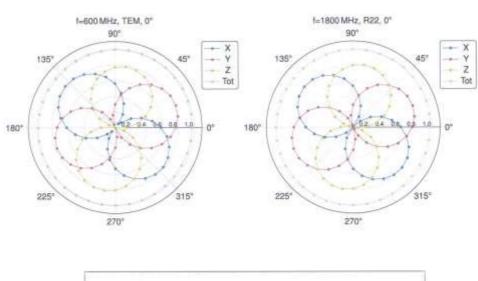
Uncertainty of Frequency Response of E-field: ±6.3% (k=2)

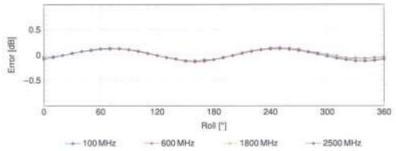
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Receiving Pattern (ϕ), $\theta = 0^{\circ}$





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

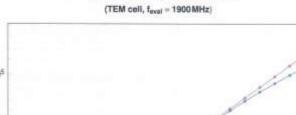
Certificate No: EX-7655_May23

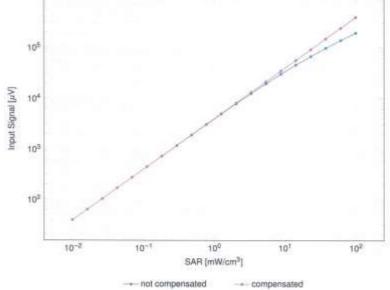
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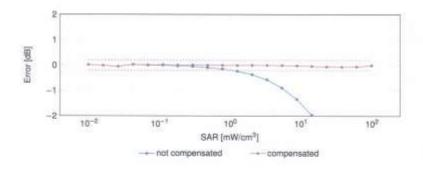
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Dynamic Range f(SAR_{head})







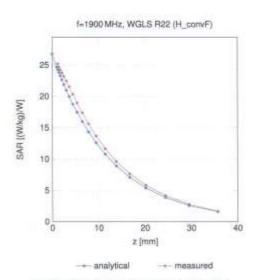
Uncertainty of Linearity Assessment: ±0.6% (k=2)

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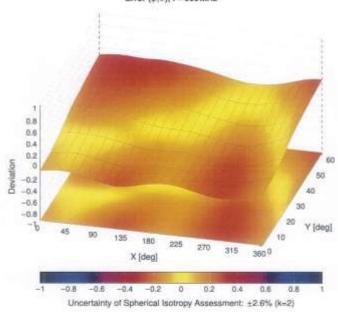


Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ) , f = 900 MHz



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Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	UncE k = 1
. 0		CW	CW	0.00	±4.7
10010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	+9.6
10011	CAC	UMTS-FDD (WCOMA)	WCDMA	2.91	±9.6
10012	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.fi
0013	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6.Mbps)	WLAN	9.46	±9.8
0021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
0023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
0024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	8.56	19.6
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	19.8
10026	DAC	EDGE-FDD (TDMA, BPSK, TN 0-1)	GSM	9.55	19.6
10027	DAC	OPRS-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	
0029	DAC	EDGE-FDD (TDMA, BPSK, TN 0-1-23)			±9.6
and the state of the same	CAA	the state of the s	GSM	7.78	±9.6
10030		IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetoath	5.30	±9.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6
10032	CAA	IEEE 802.15.1 Bluelooth (GFSK, DH5)	Bluesoath	1.16	±9.6
10033	CAA	IEEE 802.15.1 Sluetooth (PI/4-DQPSK, DH1)	Bluetoath	7.74	19.6
10034	CAA	IEEE 802.15.1 Bluetooth (PV4-DQPSK, DH3)	Bluetooth	4,53	±9.6
10035	CAA	IEEE 802.15.1 Bluetooth (Pt/4-DQPSK, DH5)	Bluetsath	3.83	±9.6
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetogth	8.01	±9.6
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetoath	4.77	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (6-DPSK, DH5)	Bluesooth	4.10	±9.6
10039	CAB	GDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±9.0
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	19.6
10044	CAA	IS-91/EIA/TIA-563 FDD (FDMA, FM)	AMPS	0.00	±9.6
10048	CAA	DECT (TDO, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6
10048	CAA	DEGT (TDO, TDMA/FDM, GFSK, Double Skd, 12)	DECT	10.79	19.6
0056	CAA	UMTS-TDD (TD-SCOMA, 1.28 Mcps)	TD-SCDMA	11,01	19.6
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	
10059	CAB	IEEE 802.11b WFi 2.4 GHz (DSSS, 2Mbps)			±9.6
10060	CAB		WLAN	2.12	±9.6
		IEEE 902.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	±9.6
10061	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±9.6
10065	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
10063	CAD	IEEE 802.11a/n WiFl 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10064	CAD	IEEE 802,11ah WFI 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
10065	CAD	IEEE 802.11a/h WFI 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
10066	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM; 24 Mbps)	WLAN	9.38	±9.6
10067	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mttps)	WLAN	10.12	19.6
10068	CAD	IEEE 802,11a/n WIFI 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6
10069	CAD	IEEE 802.11a/h WFI 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6
10071	CAB	IEEE 902.11g WIFI 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	19.6
10072	CAB	IEEE 802 11g WIFI 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	19.6
10073	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6
10074	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	19.6
10075	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	19.6
10076	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.8
10077	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 54 Mbos)	WLAN	11.00	19.6
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	19.6
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, Pl/4-DQPSK, Fullrate)	AMPS	4.77	
10000	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	8.56	±9.6
10097	CAC	UMTS-FDD (HSDPA)	The second secon	. 3144	±9.0
10098	CAC	UMTS-FOD (HSUPA, Subtest 2)	WCDMA	3.98	19.0
	DAG		WCOMA	3.98	±9.6
0099		EDGE-FDD (TOMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
10101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FOD	6.60	±9.6
10103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TOD	9.29	±9.6
10104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TOD	9.97	±9.6
10105	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TOD	10.01	±9.6
10108	CAH		LTE-FDD	5.80	±9.6
10109	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	8.43	±9.6
10110	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.79	+9.6
0111	CAH			-	44.00
6111	LAM	LIE-FULL (SU-FUMA, 100% HB, 5 MPZ, 16-QAM)	LTE-FDD	5.44	±9.6

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101191 CAD LTE-FDD (SC-FDMA, 100N-RR, 5MeV, 04-CAM) LTE-FDD 6.68 1.58	UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
19114 A.D. IEEE 802.11 in PT Generical, 15 Maps, IPG-GMI		797,753			Control Administra	19.6
10115 GAD IEEE 800.11 in PT Greenfeet, 315 Morps, 16-GAM WILLAN S.15 10.		-		and the second s		±9.6
19116 A.D. IEEE 800.11 In PT Of WestPries, 135 Mbgs, 84 AMM)	7.			442000	1,000,00	±9.6
19117 AD IEEE 802 II IN PAT MINES, 1950A WILAN 8.07 12 13 13 13 13 13 13 13				4417200	100000	±9.6
0116 CAD IEEE 802.11 of TM MICK. 81 MIDS. 15 CAMM WILAN 8.13 1.0 1.0 1.0 CAD IEEE 802.11 of TM MICK. 130 MIDS. 16 CAMM WILAN 8.13 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0				1000000		±9.6
01191 0AD IEEE 802.11 In Off Mixed. 138 Mogs. 64 OAM UFFFDD 647 OAD 10140 0AD IEEE 802.11 In Off Mixed. 138 Mogs. 65 ANM UFFFDD 649 129 129 120 120 120 120 120 120 120 120 120 120						±9.6
01440 AAP LITE-FID (GE FERMA, 100% RB. 15 New, 16 CAMA) 1144 CAAP LITE-FID (GE FERMA, 100% RB. 15 New, 84 CAMA) 1145 CAAP LITE-FID (GE FERMA, 100% RB. 15 New, 84 CAMA) 1145 CAAP LITE-FID (GE FERMA, 100% RB. 15 New, 84 CAMA) 1145 CAAP LITE-FID (GE FERMA, 100% RB. 15 New, 84 CAMA) 1145 CAAP LITE-FID (GE FERMA, 100% RB. 15 New, 15 CAMA) 1145 CAAP LITE-FID (GE FERMA, 100% RB. 15 New, 15 CAMA) 1145 CAAP LITE-FID (GE FERMA, 100% RB. 15 New, 15 CAMA) 1145 CAAP LITE-FID (GE FERMA, 100% RB. 15 New, 15 CAMA) 1145 CAAP LITE-FID (GE FERMA, 100% RB. 15 New, 15 CAMA) 1145 CAAP LITE-FID (GE FERMA, 100% RB. 15 New, 15 CAMA) 1145 CAAP LITE-FID (GE FERMA, 100% RB. 15 New, 15 CAMA) 1145 CAAP LITE-FID (GE FERMA, 100% RB. 15 New, 15 CAMA) 1145 CAAP LITE-FID (GE FERMA, 100% RB. 15 New, 15 CAMA) 1145 CAAP LITE-FID (GE FERMA, 100% RB. 15 New, 15 CAMA) 1145 CAAP LITE-FID (GE FERMA, 50% RB. 20 New, 15 CAMA) 1145 CAAP LITE-						±9.6
0141 CAP LTE-FDG (GE-FDM, 100N, RB, 3MHz, 16-CAM) LTE-FDD 6-53 19- 0142 CAP LTE-FDG (GE-FDM, 100N, RB, 3MHz, 16-CAM) LTE-FDD 6-57 19- 0145 CAP LTE-FDG (GE-FDM, 100N, RB, 3MHz, 16-CAM) LTE-FDD 6-57 19- 0146 CAP LTE-FDG (GE-FDM, 100N, RB, 3MHz, 16-CAM) LTE-FDD 6-57 19- 0146 CAP LTE-FDG (GE-FDM, 100N, RB, 14-MHz, 16-CAM) LTE-FDD 6-57 19- 0146 CAP LTE-FDG (GE-FDM, 100N, RB, 14-MHz, 16-CAM) LTE-FDD 6-70 19- 0146 CAP LTE-FDG (GE-FDM, 100N, RB, 14-MHz, 16-CAM) LTE-FDD 6-72 19- 0147 CAP LTE-FDG (GE-FDM, 100N, RB, 14-MHz, 16-CAM) LTE-FDD 6-72 19- 0148 CAP LTE-FDD (GE-FDM, 50N-RB, 20-MHz, 16-CAM) LTE-FDD 6-72 19- 0149 CAP LTE-FDD (GE-FDM, 50N-RB, 20-MHz, 16-CAM) LTE-FDD 6-72 19- 0140 CAP LTE-FDD (GE-FDM, 50N-RB, 20-MHz, 16-CAM) LTE-FDD 6-72 19- 0141 CAP LTE-FDD (GE-FDM, 50N-RB, 20-MHz, 16-CAM) LTE-FDD 6-72 19- 0145 CAP LTE-FDD (GE-FDM, 50N-RB, 20-MHz, 16-CAM) LTE-FDD 6-72 19- 0145 CAP LTE-FDD (GE-FDM, 50N-RB, 20-MHz, 16-CAM) LTE-FDD 6-72 19- 0145 CAP LTE-FDD (GE-FDM, 50N-RB, 20-MHz, 16-CAM) LTE-FDD 10-10 10-1		1000		100000000000000000000000000000000000000		±9.6
10142 CAF LTE-FDD (SC FDMA, 100N, RE, 3MHz, GPSK)						±9.6
0145	-	and the second				±9.6
0.144				The state of the s		±9.6
0.145 OAG						±9.8
1946 CAG	Table College	100				±9.6
10-40		and the second	Control of the Section of the Control of the Contro		74.00	±9.6
0.149					1977	±9.6
1950 CAF LTE-FDD (SC-PDMA, 50%, RE, 20MHz, 0P-SA)						19.6
OLD CAH	71.					±9.6
1152 CAH TE-TDD (SC-PDMA, 50% RB, 20 MHz, 16 -QAM)						±9.6
0.155 CAH LITE-TDD (SC-FDMA, 50%, RB, 10MHz, Q-FSK) 1.154 CAH LITE-FDD (SC-FDMA, 50%, RB, 10MHz, Q-FSK) 1.155 CAH LITE-FDD (SC-FDMA, 50%, RB, 10MHz, 16-CAM) 1.155 CAH LITE-FDD (SC-FDMA, 50%, RB, 15MHz, 16-CAM) 1.155 CAH LITE-FDD (SC-FDMA, 15M, 26-CAM) 1.155 CAH						±9.6
1955						£9.6
D155 CAH LTE-FDD SC-FDMA, 50%, RB, 50MHz, 16-GAM LTE-FDD 6.45 19		LATING -				±9.6
1558 CAH						±9.6
0.157 CAH LITE-FDD (SC-FDMA, 50% RB, 5MHz, 16-DAM) LITE-FDD 0.49 ±9. 0.159 CAH LITE-FDD (SC-FDMA, 50% RB, 5MHz, 64-DAM) LITE-FDD 6.58 ±9. 0.159 CAH LITE-FDD (SC-FDMA, 50% RB, 5MHz, 64-DAM) LITE-FDD 6.58 ±9. 0.150 CAF LITE-FDD (SC-FDMA, 50% RB, 5MHz, 64-DAM) LITE-FDD 6.58 ±9. 0.160 CAF LITE-FDD (SC-FDMA, 50% RB, 15MHz, 16-DAM) LITE-FDD 6.43 ±9. 0.160 CAF LITE-FDD (SC-FDMA, 50% RB, 15MHz, 16-DAM) LITE-FDD 6.58 ±9. 0.160 CAG LITE-FDD (SC-FDMA, 50% RB, 15MHz, 64-DAM) LITE-FDD 6.58 ±9. 0.160 CAG LITE-FDD (SC-FDMA, 50% RB, 15MHz, 64-DAM) LITE-FDD 6.58 ±9. 0.160 CAG LITE-FDD (SC-FDMA, 50% RB, 14MHz, 64-DAM) LITE-FDD 6.58 ±9. 0.160 CAG LITE-FDD (SC-FDMA, 50% RB, 14MHz, 64-DAM) LITE-FDD 6.21 ±9. 0.160 CAG LITE-FDD (SC-FDMA, 50% RB, 14MHz, 64-DAM) LITE-FDD 6.21 ±9. 0.160 CAG LITE-FDD (SC-FDMA, 50% RB, 14MHz, 64-DAM) LITE-FDD 6.79 ±9. 0.160 CAG LITE-FDD (SC-FDMA, 17R SC-M8Z, CPSK) LITE-FDD (SC-FDMA, 17R SC-M8Z, CPSK) LITE-FDD (SC-FDMA, 17R SC-M8Z, CPSK) 0.170 CAF LITE-FDD (SC-FDMA, 17R SC-M8Z, CPSK) LITE-FDD 6.57 ±9. 0.170 CAF LITE-FDD (SC-FDMA, 17R SC-M8Z, CPSK) LITE-FDD 6.59 ±9. 0.171 CAA LITE-TDD (SC-FDMA, 17R SC-M8Z, CPSK) LITE-FDD 6.59 ±9. 0.172 CAA LITE-TDD (SC-FDMA, 17R SC-M8Z, CPSK) LITE-TDD 9.24 ±9. 0.173 CAH LITE-TDD (SC-FDMA, 17R SC-M8Z, CPSK) LITE-TDD 9.24 ±9. 0.175 CAH LITE-TDD (SC-FDMA, 17R SC-M8Z, CPSK) LITE-TDD 9.24 ±9. 0.176 CAH LITE-TDD (SC-FDMA, 17R SC-M8Z, CPSK) LITE-TDD 0.52 ±9. 0.177 CAA LITE-TDD (SC-FDMA, 17R SC-M8Z, CPSK) LITE-FDD 5.72 ±9. 0.178 CAH LITE-FDD (SC-FDMA, 17R SC-M8Z, CPSK) LITE-FDD 6.52 ±9. 0.179 CAH LITE-FDD (SC-FDMA, 17R SC-M8Z, CPSK) LITE-FDD 6.52 ±9. 0.170 CAH LITE-FDD (SC-FDMA, 17R SC-M8Z, CPSK) LITE-FDD 6.52 ±9. 0.178 CAH LITE-FDD (SC-FDMA, 17R SC-M8Z, CPSK) LITE-FDD 6.52 ±9. 0.179 CAA LITE-FDD (SC-FDMA, 17R SC-M8Z, CPSK) LITE-FDD 6.52 ±9. 0.180 CAH LITE-FDD (SC-FDMA, 17R SC-M8Z, CPSK) LITE-FDD 6.50 ±9. 0.180 CAH LITE-FDD (SC-FDMA, 17R SC-M8Z, CPSK) LITE-FDD 6.50 ±9. 0.181 CAF LITE-FDD (SC-FDMA, 17R SC-M8Z, CPSK) LITE-FDD 6.50 ±9. 0.182 CAD LITE-FDD (SC-FDMA, 17R SC-M8Z, CPSK) LI						£9.6
1958 CAH LTE-FDD (SC-FDMA, 50% RB, 10MHz, 84-QAM) LTE-FDD 6,62 19						±9.6
10159 CAH	and delications	de transferior				±9.6
10160 CAF						19.6
0.161 CAF		10.77 10.10				±9.6
0162 CAF LTE-PDD (SC-PDMA, 50% R9, 15 MHz, 64-GAM) LTE-PDD (6, 58 ±9) 0160 CAG LTE-FDD (SC-PDMA, 50% R9, 14 MHz, 16-GAM) LTE-PDD (6, 52 ±9) 0160 CAG LTE-FDD (SC-PDMA, 50% R9, 14 MHz, 16-GAM) LTE-PDD (6, 52 ±9) 0169 CAF LTE-PDD (SC-PDMA, 50% R9, 14 MHz, 64-GAM) LTE-PDD (6, 79 ±8) 0170 CAF LTE-PDD (SC-PDMA, 18B, 20 MHz, 0PSK) LTE-PDD (6, 79 ±8) 0170 CAF LTE-PDD (SC-PDMA, 1 RB, 20 MHz, 64-GAM) LTE-PDD (6, 52 ±9) 0170 CAF LTE-PDD (SC-PDMA, 1 RB, 20 MHz, 64-GAM) LTE-PDD (6, 52 ±9) 0171 CAF LTE-PDD (SC-PDMA, 1 RB, 20 MHz, 64-GAM) LTE-PDD (6, 68 ±9) 0172 CAF LTE-TDD (SC-PDMA, 1 RB, 20 MHz, 64-GAM) LTE-PDD (6, 68 ±9) 0173 CAF LTE-TDD (SC-PDMA, 1 RB, 20 MHz, 64-GAM) LTE-TDD (6, 68 ±9) 0174 CAF LTE-TDD (SC-PDMA, 1 RB, 20 MHz, 64-GAM) LTE-TDD (6, 68 ±9) 0175 CAF LTE-TDD (SC-PDMA, 1 RB, 20 MHz, 64-GAM) LTE-TDD (6, 68 ±9) 0176 CAF LTE-PDD (SC-PDMA, 1 RB, 10 MHz, 64-GAM) LTE-TDD (6, 68 ±9) 0176 CAF LTE-PDD (SC-PDMA, 1 RB, 50 MHz, 64-GAM) LTE-PDD (6, 52 ±9) 01770 CAF LTE-PDD (SC-PDMA, 1 RB, 50 MHz, 68 KMz) LTE-PDD (6, 52 ±9) 0178 CAF LTE-PDD (SC-PDMA, 1 RB, 50 MHz, 68 KMz) LTE-PDD (6, 52 ±9) 0179 CAF LTE-PDD (SC-PDMA, 1 RB, 50 MHz, 68 KMz) LTE-PDD (6, 52 ±9) 0170 CAF LTE-PDD (SC-PDMA, 1 RB, 50 MHz, 68 KMz) LTE-PDD (6, 52 ±9) 0170 CAF LTE-PDD (SC-PDMA, 1 RB, 50 MHz, 64 GAM) LTE-PDD (6, 50 ±9) 0180 CAF LTE-PDD (SC-PDMA, 1 RB, 50 MHz, 64 GAM) LTE-PDD (6, 50 ±9) 0180 CAF LTE-PDD (SC-PDMA, 1 RB, 50 MHz, 64 GAM) LTE-PDD (6, 50 ±9) 0180 CAF LTE-PDD (SC-PDMA, 1 RB, 50 MHz, 64 GAM) LTE-PDD (6, 50 ±9) 0180 CAF LTE-PDD (SC-PDMA, 1 RB, 50 MHz, 64 GAM) LTE-PDD (6, 50 ±9) 0180 CAF LTE-PDD (SC-PDMA, 1 RB, 50 MHz, 64 GAM) LTE-PDD (6, 50 ±9) 0180 CAF LTE-PDD (SC-PDMA, 1 RB, 50 MHz, 64 GAM) LTE-PDD (6, 50 ±9) 0180 CAF LTE-PDD (SC-PDMA, 1 RB, 50 MHz, 64 GAM) LTE-PDD (6, 50 ±9) 0180 CAF LTE-PDD (SC-PDMA, 1 RB, 50 MHz, 64 GAM) LTE-PDD (6, 50 ±9) 0180 CAF LTE-PDD (SC-PDMA, 1 RB, 50 MHz, 64 GAM) LTE-PDD (6, 50 ±9) 0180 CAF LTE-PDD (SC-PDMA, 1 RB, 50 MHz, 64 GAM) LTE-PDD (6, 50 ±9) 0180 CAF LTE-PDD (SC-PDMA, 1 RB, 50 MHz, 64 GAM) LTE-PDD (6, 50 ±9)		dentification of the same				±9.6
0166 CAG					7,000,00	±9.6
0167 CAG						±9.6
188 CAG						±9.6
0.109 CAF			The state of the s			±9.6
10170 CAF					10000	±9.6
0171 AAF LTE-FDD SC-FDMA, 1 RB, 20 MHz, 64-QAM LTE-FDD 6.48 ±8 ±9 ±9 ±9 ±10 ±				The Political Control of the Political Control	1770	±9.6
1712 CAH	4 Authorite/stone	Annual Contract of	and the state of t			±9:6
10173 CAH LTE-TDD SC-FDMA, 1 RB, 20 MHz, 16-QAM) LTE-TDD 9.48 19.					7.40,00	±9,6
10174 CAH						±9.0
10176 CAH LTE-FDD SC-FDMA, 1 RB, 10 MHz, 16-GAM) LTE-FDD S.72 ±9.		LIVE CONTROL				19.6
10176 CAH LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) LTE-FDD 5.52 ±9. ±9. ±9. ±1.		Andrew Control	Control of the Contro			±9.6
D177 CAJ LTE-FDD SC-FDMA, 1 RB, 5 MHz, GPSK) LTE-FDD S.73 ±9.		100				±9.6
10178 CAH LTE-FDD SC-FDMA, 1 RB, 5 MHz, 15 GAM) LTE-FDD 6.50 ±9	Actorists Associate	A STATE OF THE PARTY OF THE PAR				±9.6
10179 CAH LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-GAM)				LTE-F00	5.79	±9.6
DIBO CAH LTE-FDD SC-FDMA, 1 RB, 5MHz, 64-GAM) LTE-FDD C.50 ±9, ±9, ±9, ±9, ±1,						±9.8
D181 CAF LTE-FDD SC-FDMA, 1 RB, 15 MHz, QPSK) LTE-FDD S.72 ±9.		1967				±9.6
10182 CAF LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16 GAM) LTE-FDD 6.52 ±9	about the Berlinson					±9.6
0.183 AAE LTE-FDD (SC-FDMA, 1 RB, 15 Mez, 64-QAM) LTE-FDD S. 7.3 ±9. 0.184 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD S. 7.3 ±9. 0.185 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD G. 51 ±9. 0.186 AAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD G. 50 ±9. 0.187 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-FDD G. 52 ±9. 0.188 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-FDD G. 52 ±9. 0.189 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-FDD G. 52 ±9. 0.199 AAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-FDD G. 52 ±9. 0.199 CAD LEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) WILAN S. 08 ±9. 0.199 CAD LEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) WILAN S. 12 ±9. 0.196 CAD LEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) WILAN S. 13 ±9. 0.197 CAD LEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) WILAN S. 13 ±9. 0.198 CAD LEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) WILAN S. 13 ±9. 0.199 CAD LEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) WILAN S. 13 ±9. 0.199 CAD LEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) WILAN S. 13 ±9. 0.199 CAD LEEE 802.11n (HT Mixed, 5.5 Mbps, BPSK) WILAN S. 13 ±9. 0.199 CAD LEEE 802.11n (HT Mixed, 5.5 Mbps, BPSK) WILAN S. 13 ±9. 0.199 CAD LEEE 802.11n (HT Mixed, 5.5 Mbps, BPSK) WILAN S. 13 ±9. 0.199 CAD LEEE 802.11n (HT Mixed, 5.3 Mbps, 16-QAM) WILAN S. 13 ±9. 0.199 CAD LEEE 802.11n (HT Mixed, 5.3 Mbps, 16-QAM) WILAN S. 13 ±9. 0.190 CAD LEEE 802.11n (HT Mixed, 5.3 Mbps, 16-QAM) WILAN S. 13 ±9. 0.190 CAD LEEE 802.11n (HT Mixed, 5.3 Mbps, 16-QAM) WILAN S. 14 ±9. 0.190 CAD LEEE 802.11n (HT Mixed, 5.3 Mbps, 16-QAM) WILAN S. 14 ±9. 0.190 CAD LEEE 802.11n (HT Mixed, 5.3 Mbps, 16-QAM) WILAN S. 14 ±9. 0.190 CAD LEEE 802.11n (HT Mixed, 5.3 Mbps, 16-QAM) WILAN S. 14 ±9. 0					101110	±9.6
D184 CAF LTE-FDD (SC-FDMA, 1 RB, 3MHz, GPSK) LTE-FDD S.73 ±9.	-					±9.6
10186 CAF LTE-FDD SC-FDMA, 1 RB, 3 MHz, 15 QAM) LTE-FDD 6.51 ±9						29.6
0.186						±9.6
10 187 CAG LTE-FDD (SC-FOMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD 5.73 ±9		1,000,000				±9/6
10 18		100000000000000000000000000000000000000			1,000,000	±9.6
10189 AAG LTE-FDD (SC-FDMA, 1 RB, 1.4MHz, 64-QAM) LTE-FDD 8.50	the description					±9.6
D193 CAD IEEE 802.11n (HT Greenfield, 6.5 Mbps, 8PSK) WLAN 8.08 ± 9.				The state of the s		±9.0
D194 CAD IEEE 802.11n (HT Greenfield, 39 Mbps, 16 CAM) WILAN 8.12 ±8					6.50	±9.6
0.195 CAD IEEE 802.11n (HT Greenfeid, 65 Mbps, 84-QAM) WLAN 8.21 ±9. 0.196 CAD IEEE 802.11n (HT Mixed, 6.5 Mbps, 8PSK) WLAN 8.10 ±9. 0.197 CAD IEEE 802.11n (HT Mixed, 6.5 Mbps, 16-QAM) WLAN 8.13 ±9. 0.198 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.13 ±9. 0.219 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.27 ±9. 0.229 CAD IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) WLAN 8.03 ±9. 0.220 CAD IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) WLAN 8.13 ±9. 0.221 CAD IEEE 802.11n (HT Mixed, 172.2 Mbps, 84-QAM) WLAN 8.27 ±9. 0.222 CAD IEEE 802.11n (HT Mixed, 15 Mbps, 8PSK) WLAN 8.29 ±9. 0.222 CAD IEEE 802.11n (HT Mixed, 15 Mbps, 8PSK) WLAN 8.48 ±9.	and the last second	And in comment of the last				±9.6
D196 CAD						±9.6
0197 CAD IEEE 802.11n (HT Mixed, 39 Mbps, 16 QAM) WILAN 8.13 ±9 0198 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64 QAM) WILAN 8.27 ±9 0219 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, 8PSK) WILAN 8.03 ±9 0220 CAD IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) WILAN 6.13 ±9 0221 CAD IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) WILAN 8.27 ±9 0222 CAD IEEE 802.11n (HT Mixed, 15 Mbps, 8PSK) WILAN 8.06 ±9 0223 CAD IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM) WILAN 8.48 ±9		Annual Control			the Colonian	±9.6
0198 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.27 ±9 0219 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, 8PSK) WLAN 8.03 ±9 0220 CAD IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) WILAN 6.13 ±9 0221 CAD IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) WLAN 8.27 ±9 0222 CAD IEEE 802.11n (HT Mixed, 15 Mbps, 8PSK) WLAN 8.06 ±9 0223 CAD IEEE 802.11n (HT Mixed, 90 Mbps, 18-QAM) WILAN 8.48 ±9						±9.6
0219 CAD IEEE 802.11n (HT Mixed, 7.2 Mixps, BPSK) WLAN 8.03 ±9				1,000,000	0.000.00	±9.6
0220 CAO IEEE 802.11n (HT Mixed, 43.3 Mops, 16-QAM) WLAN 6.13 ±9. 0221 CAO IEEE 802.11n (HT Mixed, 72.2 Mops, 64-QAM) WLAN 6.27 ±9. 0222 CAD IEEE 802.11n (HT Mixed, 15 Mops, 8PSK) WLAN 8.06 ±9. 0223 CAD IEEE 802.11n (HT Mixed, 90 Mops, 16-QAM) WLAN 8.48 ±9.		LATE AND DESCRIPTION		WLAN	8.27	±9.6
10221 CAD IEEE 802.11n (HT Mixed, 72.2 Mbps, 84-CAM) WLAN 8.27 ± 9, 10222 CAD IEEE 802.11n (HT Mixed, 15 Mbps, 8PSK) WLAN 8.06 ± 9, 10223 CAD IEEE 802.11n (HT Mixed, 90 Mbps, 16-CAM) WLAN 8.48 ± 9.						±9.6
0222 CAD IEEE 802.11n (HT Mixed, 15 Mbps, BPSK) WLAN 8.06 ±9 0223 CAD IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM) WLAN 8.48 ±9						±9.6
0223 CAD IEEE 802.11n (HT Mixed, 90 Mops, 18-QAM) WLAN 8.48 ±9.	200			1000000		±9.6
100	de la contracta de la contract	And the second of the last			8.06	±9.6
10224 CAD IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) WLAN 8.08 ±9			The state of the s	10000000		±9.6
	0.224	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc [®] k = 2
10225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10226	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.8
10/227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	19.6
10228	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6
10229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
18231	CAE	LTE-TDD (SC-FDMA, 1-RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6
10:232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK)	LTE-TDD	9.21	±9.6
10:235	CAH	LTE-TDD (SC-FDMA, 1 RB, 18 MHz, 18-QAM)	LTE-TOD	9.48	±9.6
10236	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TOD	10.25	±9.8
10237	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	±9.8
10238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 84-QAM)	LTE-TDD	10.25	±9.6
10240	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	±9,6
10.241	GAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6
10242	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6
10243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TOD	9.46	±9.6
10244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6
10246	CAE	LTE-TDD (8C-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	£9.8
10247	CAH	LTE-TDO (SC-FOMA, 60% RB, 5 MHz, 18-QAM)	LTE-TOD	8.91	±9.6
10.248	CAH	LTE-TOD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±8.6
10249	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TOD	9.29	±9.6
10250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TOD	9.81	±9.6
10251	CAH	LTE-TOO (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6
10252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6
10253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 18-QAM)	LTE-TOD	9.90	±9.6
10254	CAG	LTE-TOO (SC-FOMA, 50% RB, 15MHz, 84-QAM)	LTE-TOD	10.14	±9.6
10255	GAG	LTE-TOD (SC-FDMA, 50% AB. 15 MHz, QPSK)	LTE-TOD	9.20	±9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TOD	9.96	19.6
10257	CAC	LTE-TDD (SC-FDMA, 100% RB, 1,4 MHz, 64-QAM)	LTE-TOD	10,08	±9.8
10258	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TOD	9.34	±9.6
10259	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6
10260	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 84-QAM)	LTE-TDD	9.97	1,9.6
10261	CAE	LTE-TOO (SC-FOMA, 100% RB, 3 MHz, QPSK)	LTE-TOD	9.24	±9.6
10262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	±9.6
10253	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 84-QAM)	LTE-TOD	10.16	±9.6
10264	CAH	LTE-TDO (SC-FDMA, 100% RB, 5MHz, QPSK)	LTE-TOD	9.23	±9.6
10265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	0.92	±9.6
and the section for the sec	Andrew Street	LTE-TOO (SC-FOMA, 100% RB, 10 MHz, 84-QAM)	LTE-TOD	10.07	±9.6
10267	CAH	LTE-TDO (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TOO	9.30	19.6
10268	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16 QAM)	LTE-TOD	10.06	±9.6
chel ex l'encourant	Andrew State of State	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TOD	10.13	±9.6
10270	CAC	LTE-TDD (SC-FOMA, 100% RR, 15 MHz, QPSK)	LTE-TDD	9.58	19.6
-	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	1,9.8
10275	17.741.1741	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6
10277	CAA	PHS (QPSK)	PHS	11.81	±9.6
10278	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.6
The second second second	1.77	PHS (QPSK, BW 884 MHz, Rolloft 0.38)	PHS	12.18	±9.6
10290	AAB	CDMA2000, RC1, SO55, Full Rate CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.91	±9.6
	AAB		CDMA2000	3.46	±9.8
10292	AAB	CDMA2000, RC3, SO32, Full Rate CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.39	19.6
10295	AAB	CDMA2000, HC3, SC3, Full Hate CDMA2000, RC1, SC3, 1/8th Rate 25 fr.	COMA2000	3.50	±9.0
10295	AAE		CDMA2000	12,49	±9.6
10298	AAE	LTE-FDD (SC-FDMA, 50% RB, 20MHz, QPSK) LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.81	±9.6
10298	AAE	- 11 Control 12	LTE-FDD	5.72	±9,6
200	77,47,794	LTE-FDD (SC-FDMA, 50%, RB, 3 MHz, 18-QAM)	LTE-FDD	5.39	±9.6
10300	AAE	LTE-FDD (SC-FDMA, 50% RB, 3MHz, 64-QAM)	LTE-FOD	6.60	±9.6
10:301	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WMAX	12.03	±9.6
10302	AAA	IEEE 802.15e WIMAX (29:18, 5 ma, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WMAX	12,57	±9.0
10303	AAA	IEEE 802.16e WMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)	WIMAX	12.52	±9.6
10304	AAA	IEEE 802.16e WMAX (29:18, 5 ms, 10 MHz, 54QAM, PUSC)	WMAX	11.86	±9.6
10305	AAA	IEEE 802.15e WIMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)	WIMAX	15.24	±9.0
	AAA	IEEE 802.15e WIMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)	WMAX	14.67	±9.6

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	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k =
10:307	AAA	IEEE 802.15e WIMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WIMAX	14.49	±9.6
0.308	AAA	IEEE 802:16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WIMAX	14.46	19.8
0309	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WMAX	14.58	±9.6
0310	AAA:	IEEE 802.16e WMAX (29:16, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	WIMAX	14.57	±9.6
0311	AAE	LTE-FDD (SC-FDMA, 100% RB, 15MHz, QPSK)	LTE-FDD	8.06	±9.6
0313	AAA	DEN 1:3	IDEN	10.51	±9.6
0314	AAA	IDEN 1:5	DEN	13.48	±9.6
0315	AAB	IEEE 802.11b WFI 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6
0316	AAB	IEEE 802.11g WIFI 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.38	±9.6
0317	AAD	IEEE 802.11a WIFI 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	19.6
0352	AAA	Purse Waveform (200Hz, 10%)	Generic	10.00	±9.6
0353	AAA	Puise Waveform (200Hz, 20%)	Generic	6.99	±9.6
0354	AAA	Pulse Weveform (200Hz, 40%)	Generic	3.98	±9.6
0355	AAA	Pulse Wevelorm (200Hz, 60%)	Generic	2.22	±9.6
0356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9.8
0387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6
0388	AAA		Generic	5.22	±9.6
		QPSK Waveform, 10 MHz	7-1-1-1-1	1000000	
0396	AAA	64-QAM Waveform, 100 kHz	Generio	6.27	±9.6
0399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	±9.6
0.400	AAE	IEEE 802.11ac WIF (20 MHz, 64-GAM, 99pc duty cycle)	WLAN	8.37	±9.6
0.401	AAE	IEEE 802.11ac W/FI (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
0402	AAE	IEEE 802.11ac WIFI (80 MHz, 84-QAM, 99pc duty cycle)	WLAN	8.53	±9.6
0.403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6
0404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.6
0.406	AAB	CDMA2000, RC3, SC32, SCH0, Full Rate	CDMA2000	5.22	19.6
0410	HAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe+2,3,4,7,8,9, Subframe Cont+4)	LTE-TDD	7.82	±9.6
10414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	±9.6
10415	AAA	IEEE 802.11b WIFL2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	±9.6
0.418	AAA	IEEE 802.11g WIFI 2.4 GHz (ERP-OFDM, 6 Mbps, 98pc duty cycle)	WLAN	8.23	±9.6
0417	AAC	IEEE 802.11a/h WFI 5 GHz (OFDM, 6 Mbps; 99pc duty cycle)	WLAN	8.23	19.6
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.14	±9.6
10419	AAA	IEEE 802.11g WIF 2.4 GHz (DSSS-OFDM, 6 Mbps, 99cc duty cycle, Shart preambule)	WLAN	8.19	±9.6
10422	AAC	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WEAN	8.32	±9.6
10423	AAC	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	0.47	±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 80Z.11n (HT Greenfield, 90 Mbps, 10-QAM)	WLAN	8.45	±9.6
10427	AAC	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	±9.4
10430	AAE	LTE-FDD (DFDMA, 5MHz, E-TM 3.1)	LTE-FDO	8.28	19.6
10431	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	19.6
10432	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LYE-FOO	8.34	±9.0
	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)			
10433		W-CDMA (BS Test Model 1, 64 DPCH)	LTE-FDO	8.34	±9.6
	AAG		WCDMA	8.60	-
10435		LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7,82	±9.6
10447	AAE	LTE-FDD (OFDMA, 5MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6
40.440	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDO	7.53	±9.6
		LTE-FDD (OFDMA, 15MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	±9.8
0449	AAD		A Secret Assessment	100000	
10449	AAD	LTE-FDD (OFDMA, 20MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	
10449 10450 10451	AAB	LTE-FDD (OFDMA, 20MHz, E-TM 3.1, Clipping 44%) W-CDMA (BS Test Model 1, 84 DPCH, Clipping 44%)	WCDMA	7.59	±9.8
10449 10450 10451 10453	AAB AAE	LTE-FDD (CFDMA, 20 MHz, E-TM 3.1, Clipping 44%) W-CDMA (BS Test Model 1, 84 DPCH, Clipping 44%) Validation (Square, 10 ms, 1 ms)	WCDMA Test	7.59	±9.6
10449 10450 10451 10453 10456	AAD AAB AAE AAC	LTE-FDD (OFDMA, 20MHz, E-TM 3.1, Chpping 44%) W-CDMA (BS Tiest Model 1, 84 DPCH, Clapping 44%) Validation (Square, 10 ms, 1 ms) IEEE 802 11ss WFI (180 MHz, 54-QAM, 88pc duty cycle)	WCDMA Test WLAN	7.59 10.00 8.63	±9.6 ±9.6
10449 10450 10451 10453 10456 10457	AAD AAB AAC AAC AAB	LTE-FDD (OFDMA, 20MHz, E-TM 3.1, Chpping 44%) W-CDMA (BS Tiest Model 1, 84 DPCH, Clapping 44%) W-CDMA (BS Tiest Model 1, 84 DPCH, Clapping 44%) WEELE 802 11so WFI (190 Metz, 84-QAM, 98pc duty cycle) UMTS-FDD (DC-HSDPA)	WCDMA Test WLAN WCDMA	7.59 10.00 8.63 6.62	±9.6 ±9.6 ±0.6 ±0.6
10449 10450 10451 10453 10456 10457 10458	AAD AAB AAE AAC AAB AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) W-CDMA (BS Test Model 1, 84 DPCH, Olipping 44%) Validation (Square, 10 ms, 1 ms) IEEE 802 11sc WFI (190 MHz, 64-QAM, 88pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1xEV-DQ, Rev. B, 2 carriers)	WCDMA Test WLAN	7.59 10.00 8.63 6.62 8.55	±9.6 ±9.6 ±9.6 ±9.6 ±9.6
0.449 0.450 0.451 0.453 0.456 0.457 0.458 0.458	AAD AAB AAC AAC AAB AAA	LTE-FDD (OFDMA, 20MHz, E-TM 3.1, Chpping 44%) W-CDMA (BS Tisst Model 1, 84 DPCH, Clapping 44%) Validation (Square, 10 ms, 1 ms) IEEE 802 11ss WFI (160 MHz, 84-QAM, 88pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2006 (TxEV-DO, Rev. B, 2 carriers) CDMA2006 (TxEV-DO, Rev. B, 3 carriers)	WCDMA Test WLAN WCDMA COMA2000 COMA2000	7.59 10.00 8.63 6.62	±9.6 ±9.6 ±9.6 ±9.6 ±9.6
0.449 0.450 0.451 0.453 0.456 0.457 0.458 0.458	AAD AAB AAE AAC AAB AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) W-CDMA (BS Test Model 1, 84 DPCH, Olipping 44%) Validation (Square, 10 ms, 1 ms) IEEE 802 11sc WFI (190 MHz, 64-QAM, 88pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1xEV-DQ, Rev. B, 2 carriers)	WCDMA Test WLAN WCDMA CDMA2000	7.59 10.00 8.63 6.62 8.55	±9.6 ±9.6 ±9.6 ±9.6 ±9.6
0449 0450 0451 0453 0456 0457 0458 0458 0460	AAD AAB AAC AAC AAB AAA	LTE-FDD (OFDMA, 20MHz, E-TM 3.1, Chpping 44%) W-CDMA (BS Tisst Model 1, 84 DPCH, Clapping 44%) Validation (Square, 10 ms, 1 ms) IEEE 802 11ss WFI (160 MHz, 84-QAM, 88pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2006 (TxEV-DO, Rev. B, 2 carriers) CDMA2006 (TxEV-DO, Rev. B, 3 carriers)	WCDMA Test WLAN WCDMA COMA2000 COMA2000	7.59 10.00 8.63 6.62 8.55 8.25	±9.8 ±9.8 ±9.8 ±9.8 ±9.8 ±9.8
0449 0450 0451 0453 0456 0457 0458 0459 0460	AAD AAB AAE AAC AAB AAA AAA	LTE-FDD (OFDMA, 20MHz, E-TM 3.1, Chpping 44%) W-CDMA (BS Tiest Model 1, 84 DPCH, Clapping 44%) Validation (Square, 10 ms, 1 ms) IEEE 802 Than WFI (160 MHz, 54-QAM, 88pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (116EV-DC, Rev. B, 2 carriers) CDMA2000 (116EV-DC, Rev. B, 3 carriers) UMTS-FDD (WCDMA, AMR) UMTS-FDD (WCDMA, AMR)	WCDMA Test WLAN WCDMA CDMA2000 CDMA2000 WCDMA	7,59 10,00 8,63 6,62 6,55 8,25 2,39	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10449 10450 10451 10453 10456 10457 10458 10469 10461 10461	AAD AAB AAC AAB AAA AAA AAA	LTE-FDD (OFDMA, 20MHz, E-TM 3.1, Chpping 44%) W-CDMA (BS Tiest Model 1, 84 DPCH, Clipping 44%) Validation (Square, 10 ms, 1 ms) #EEE 802 11ss WFI (190 MHz, 84-QAM, 88pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (116EV-DO, Rev. B, 2 carriers) CDMA2000 (116EV-DO, Rev. B, 3 carriers) UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2.3,4,7,8,9)	WCDMA Test WLAN WCDMA COMA2000 COMA2000 WCDMA LTE-TDD	7.59 10.00 8.63 6.62 8.55 8.25 2.39 7.82	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10449 10450 10451 10453 10456 10457 10458 10469 10461 10461 10463	AAB AAB AAC AAB AAA AAA AAB AAC AAC	LTE-FDD (OFDMA, 20MHz, E-TM 3.1, Clipping 44%) W-CDMA (BS Tisst Modul 1, 84 DPCH, Clipping 44%) W-CDMA (BS Tisst Modul 1, 84 DPCH, Clipping 44%) Validation (Square, 10 ms, 1 ms) IEEE 802 T1ss WFI (180 MHz, 54-QAM, 89pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1xEV-DO, Rex. B, 2 carriers) CDMA2000 (1xEV-DO, Rex. B, 3 carriers) UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 15-QAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 15-QAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 15-QAM, UL Subframe-2,3,4,7,8,9)	WCDMA Test WLAN WCDMA COMA2000 COMA2000 WCDMA LITE-TDD LITE-TDD LITE-TDD	7.59 10.00 8.63 6.62 8.55 8.25 2.39 7.82 8.30 8.56	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10449 10450 10451 10453 10456 10457 10458 10460 10461 10462 10463 10464	AAD AAB AAC AAB AAA AAA AAA AAC AAC AAC AAC	LTE-FDD (OFDMA, 20MHz, E-TM 3.1, Chpping 44%) W-COMA (BS Tisst Modul 1, 84 DPCH, Olipping 44%) Validation (Square, 10 ms, 1 ms) IEEE 802 Tiss WHI (190 Metz, 54-QAM, 98pc duty cycle) UMTS-FDD (DC-HSOPA) CDMA2000 (1xEV-DO, Rev. B, 2 carriers) CDMA2000 (1xEV-DO, Rev. B, 3 carriers) UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1.4 Metz, QPSK, UL Subframe~2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 Metz, 16-QAM, UL Subframe~2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 Metz, 16-QAM, UL Subframe~2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 Metz, 16-QAM, UL Subframe~2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe~2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe~2,3,4,7,8,9)	WCDMA Test WLAN WCDMA CDMA2000 CDMA2000 WCDMA LTE-TDD LTE-TDD LTE-TDD LTE-TDD	7.99 10.00 8.63 6.62 8.55 8.25 2.39 7.82 8.30 6.56 7.82	±9.4 ±9.4 ±9.4 ±9.4 ±9.4 ±9.4 ±9.4 ±9.4
10448 10449 10460 10451 10453 10456 10457 10468 10460 10461 10462 10463 10464 10465 10465	AAD AAB AAA AAA AAA AAB AAC AAC AAC AAC AAC	LTE-FDD (OFDMA, 20MHz, E-TM 3.1, Chpping 44%) W-CDMA (BS Test Model 1, 84 DPCH, Clapping 44%) Validation (Square, 10 ms, 1 ms) #EEE 802 11ss WFI (190 Metz, 84-QAM, 88pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1xEV-DO, Rev. B, 2 carriers) CDMA2000 (1xEV-DO, Rev. B, 3 carriers) UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1.4 Metz, GPSK, UL Subframe+2.3.4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe+2.3.4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe+2.3.4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe+2.3.4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 1 GPSK, UL Subframe+2.3.4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 1 GPSK, UL Subframe+2.3.4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 1 GPSK, UL Subframe+2.3.4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 1 GPSK, UL Subframe+2.3.4,7.8,9)	WCDMA Test WLAN WCDMA COMA2000 COMA2000 WCDMA LTE-TDD LTE-TDD LTE-TDD LTE-TDD	7.59 10.00 8.63 6.62 8.55 8.25 2.39 7.82 8.30 7.82 8.30 7.82	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10449 10450 10451 10453 10456 10457 10458 10460 10461 10462 10463 10464 10465 10466	AAD AAB AAA AAA AAA AAC AAC AAC AAC AAC AAC	LTE-FDD (OFDMA, 20MHz, E-TM 3.1, Chpping 44%) W-CDMA (BS Tisst Model 1, 84 DPCH, Clipping 44%) W-CDMA (BS Tisst Model 1, 84 DPCH, Clipping 44%) Validation (Square, 10 ms, 1 ms) IEEE 802 Thas WH (160 Mbtz, 54-QAM, BBpc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2006 (TxEV-DO, Rev. B, 2 carriers) CDMA2006 (TxEV-DO, Rev. B, 3 carriers) UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1.4 Mbtz, QPSK, UL Subframe+2.3,4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 Mbtz, 64-QAM, UL Subframe+2.3,4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 3 Mbtz, GPSK, UL Subframe+2.3,4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 3 Mbtz, 64-QAM, UL Subframe+2.3,4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 3 Mbtz, 64-QAM, UL Subframe+2.3,4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 3 Mbtz, 64-QAM, UL Subframe+2.3,4,7.8,8) LTE-TDD (SC-FDMA, 1 RB, 3 Mbtz, 64-QAM, UL Subframe+2.3,4,7.8,8)	WCDMA Test WLAN WCDMA CDMA2000 CDMA2000 WCDMA LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD	7.59 10.00 8.63 6.62 8.55 8.25 2.39 7.42 8.30 8.56 7.82 8.92 8.67	±9.4 ±9.8 ±9.8 ±9.8 ±9.8 ±9.8 ±9.8 ±9.8 ±9.8
10449 10450 10451 10453 10456 10457 10458 10460 10461 10463 10464 10465 10465 10466	AAD AAB AAA AAA AAA AAC AAC AAC AAC AAC AAC	LTE-FDD (CFDMA, 20MHz, E-TM 3.1, Chpping 44%) W-CDMA (BS Tisst Modul 1, 84 DPCH, Clipping 44%) W-CDMA (BS Tisst Modul 1, 84 DPCH, Clipping 44%) Validation (Square, 10 ms, 1 ms) IEEE 802 Tisst WFI (160 MHz, 54-QAM, 89pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1x6V-DO, Rex. B, 3 carriers) CDMA2000 (1x6V-DO, Rex. B, 3 carriers) UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1 4 MHz, 16-QAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1 4 MHz, 64-QAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe-2,3,4,7,8,8) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe-2,3,4,7,8,8) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe-2,3,4,7,8,8)	WCDMA Test WLAN WCDMA CCMA2000 WCDMA CCMA2000 WCDMA LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD	7.59 10.00 8.63 8.55 8.25 2.39 7.82 8.30 8.56 7.82 8.57 7.82	19.4 19.8 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6
10449 10450 10451 10453 10456 10457 10468 10461 10463 10464 10465 10466 10465 10468	AAD AAB AAA AAA AAA AAC AAC AAC AAC AAC AAC	LTE-FDD (OFDMA, 20MHz, E-TM 3.1, Chpping 44%) W-COMA (BS Tisst Modul 1, 84 DPCH, Clipping 44%) W-COMA (BS Tisst Modul 1, 84 DPCH, Clipping 44%) Validation (Square, 10 ms, 1 ms) IEEE 802 Tiss WHI (190 Metz, 64-QAM, 98pc duty cycle) UMTS-FDD (DC-HSOPA) CDMA2000 (1xEV-DO, Rev. B, 2 carriers) CDMA2000 (1xEV-DO, Rev. B, 3 carriers) UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 14 Metz, QPSK, UL Subframe+2,3.4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 14 Metz, GPSK, UL Subframe+2,3.4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe+2,3.4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe+2,3.4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe+2,3.4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe+2,3.4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe+2,3.4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe+2,3.4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe+2,3.4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe+2,3.4,7.8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe+2,3.4,7.8,9)	WCDMA Test WLAN WCDMA COMA2000 COMA2000 COMA2000 LTE-TDD	7.59 10.00 6.63 6.62 6.55 8.25 2.39 7.82 8.30 6.56 7.82 8.32 8.67 7.82	±9.4 ±9.4 ±9.4 ±9.4 ±9.4 ±9.4 ±9.4 ±9.4
10449 10450 10451 10453 10456 10457 10458 10460 10461 10462 10463 10464	AAD AAB AAA AAA AAA AAC AAC AAC AAC AAC AAC	LTE-FDD (CFDMA, 20MHz, E-TM 3.1, Chpping 44%) W-CDMA (BS Tisst Modul 1, 84 DPCH, Clipping 44%) W-CDMA (BS Tisst Modul 1, 84 DPCH, Clipping 44%) Validation (Square, 10 ms, 1 ms) IEEE 802 Tisst WFI (160 MHz, 54-QAM, 89pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1x6V-DO, Rex. B, 3 carriers) CDMA2000 (1x6V-DO, Rex. B, 3 carriers) UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1 4 MHz, 16-QAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1 4 MHz, 64-QAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe-2,3,4,7,8,8) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe-2,3,4,7,8,8) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe-2,3,4,7,8,8)	WCDMA Test WLAN WCDMA CCMA2000 WCDMA CCMA2000 WCDMA LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD	7.59 10.00 8.63 8.55 8.25 2.39 7.82 8.30 8.56 7.82 8.57 7.82	±9.4 ±9.8 ±9.4 ±9.4 ±9.4 ±9.4 ±9.4 ±9.4 ±9.4 ±9.4

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k ≃
10472	AAB	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.57	±9.6
10473	AAF	LTE-TOO (SC-FOMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7,82	±9.6
10474	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.32	±9.6
0475	AAF	LTE-TOD (SC-FDMA, 1 RB, 15MHz, 84-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
6477	AAG	LTE-TOD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2.3;4,7,8.9)	LTE-TOD	8.32	19.6
0478	AAG	LTE-TOO (SC-FDMA, 1 RS, 20MHz, 64-QAM, UL Subframe+2,3,4,7,8,9)	LTE-TD0	8.57	±9.6
0479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOO	7.74	±9.6
0480	AAG	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2.3,4,7,8.9)	TLE-LD0	8.18	±9.6
0481	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TOO	8.45	±9.6
10482	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe+2,3,4,7,8,9)	LTE-TDO	7.71	±9.6
0483	AAD	LTE-TDD (SC-FDMA, 50% RB, 3MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOO	8,39	±9.6
10484	CIAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDO	8.47	±9.6
0.485	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2.3,4,7.8.9)	LTE-TD0	7.59	19,6
10486	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.38	±9.8
0.487	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	±9.6
0.488	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.70	±9.6
0.489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
0490	AAG	LTE-TOD (SC-FDMA, 50% RB, 10 MHz, 54-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10.482	AAF	LTE-TDD (SC-F0MA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TOD	8.41	±9:6
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.55	±9.6
10494	AAG	LTE-TOD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7,74	±9.6
10495	AAG	LTE-TOO (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	±9.8
10496	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 84-QAM, UL Subframe+2.3,4,7.8,9)	LTE-TD0	8.54	±9.6
10497	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe+2,3,4,7,8,9)	LTE-TOO	7.67	±9.6
10498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TD0	8.40	±9.6
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOO	8.68	±9.6
10500	AAD	LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK, UL Subhame=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOO	8.44	±9.6
0508	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,6,9)	LTE-TOD	8.52	±9,6
10503	AAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.72	±9.6
10504	AAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,5)	LTE-TOO	8.31	±9.6
10505	AAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.54 7.74	±9.6
10506	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe-2,3,4,7,8,9)	LTE-TOD	8.36	±9.6
10508	AAG	LTE-TDD (SC-FDMA, 100% RB, 10MHz, 16-QAM, UL Subframe=2.3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 10MHz, 64-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TOD	8.55	±9.6
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	±9.6
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 16-QAM, UL Subframe-2,3,4,7,8,9)	LTE-TOD	8.49	19.6
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subhame=2.3.4.7.8.9)	LTE-TOD	8.51	±9.6
10512	AAG	LTE-TDD (SC-FDMA, 100% RB, 20MHz, QPSK, UL Subframe-2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10513	AAG	LTE-TDD (SC-FDMA, 190% RB, 20 MHz, 16-QAM, UL Subframe+2,3,4,7,8,9)	LTE-TOD	8.42	±9.6
10514	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subhame=2,3.4.7,8,9)	LTE-TDD	8.45	19.6
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10516	AAA	IEEE 802.11b WFI 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	±9.6
10517	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10518	AAC	IEEE 802.11a/h WFI 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±8.6
10519	AAG	IEEE 802.11a/h WFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	±8.6
10520	AAC	IEEE 802.11a/h WFI 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6
10521	AAC	IEEE 802,11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	19.6
10522	AAC	IEEE 802,11s/h WIFI 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	19.6
10523	AAC	IEEE 802.11a/h WFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6
10524	AAC	IEEE 802.11a/n WFI 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	19.6
10525	AAC	IEEE 802.11ac WiFi (20 MHz, MCS0, 98pc duty cycle)	WLAN	8.36	19.6
10528	AAC	IEEE 802.11ac WiFi (20 MHz, MCS1, 98pc duty cycle)	WLAN	8.42	±9.6
10527	AAC	IEEE 802.11ac WIFI (20 MHz, MC52, 99pc duty cycle)	WLAN	8.21	±9.6
0528	AAC	IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.36	19.6
0529	AAC	IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.36	18.6
10531	AAC	IEEE 802.11ac WIFI (20 MHz. MCS6, 99pc duty cycle)	WLAN	6.43	±9.6
10532	AAC	JEEE 809.11ac WiFi (20 MHz, MCS7, 98pc duty cycle)	WLAN	8.29	±9.6
10533	AAG	IEEE 802.11ac WIFI (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.38	±8.6
10534	AAC	IEEE 802.11ac WIFI (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.45	±9.6
10535	AAC	IEEE 802.11ac WIFI (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	19.6
10536	AAC	IEEE 802.11ac WIFI (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.32	±9.6
10537	AAC	IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
and the later later to	AAC	IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.54	19.6
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UID	Bav	Communication System Name	Group	PAR (dB)	Unce k =
10541	AAC	IEEE 802.11ac WIFI (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.46	±9.6
10542	AAC	IEEE 802.11ac WIFI (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.65	±9.8
10543	AAC	IEEE 802,11ac WIFI (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±9.6
10544	AAC	IEEE 802.11ac WIFI (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.6
0545	AAC	IEEE 802,11ac WIFI (80MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
0846	AAC	IEEE 802.11ac WIFI (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	19.6
10547	AAC	TEEE 802,11ac WIFI (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	+9.6
10548	AAC	IEEE 802.11sc WIFI (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±9.6
10550	AAC	IEEE 802.11ac WIFI (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.38	±9.6
					and the second section
10551	AAC	IEEE 802.11ac WIFI (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.50	±9.6
0.552	AAC	IEEE 802,11ac WIFI (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.42	±9.6
0553	AAC	IEEE 802.11ac WIFI (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.45	±9.6
0554	AAD	IEEE 802.11ac WFI (160 MHz, MCS0, 98pc duty cycle)	WLAN	8.48	±9.6
0.665	GAA	IEEE 802.11ac WIFI (160 MHz, MCS1, 98pc duty cycle)	WLAN	8.47	±9.6
0556	AAD	IEEE 802.11ac WIFI (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9:6
0557	AAD	IEEE 802.11ac WIFI (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.52	±9.6
0558	AAD	IEEE 802.11ac WIFI (160 MHz, MCS4, 96pc duty cycle)	WLAN	8.61	±9.6
0560	AAD	IEEE 802.11ac WIFI (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.73	±9.6
0561	AAD	IEEE 802.11ac WIFI (180 MHz, MCS7, 99pc duty cycle)	WLAN	8.56	±9:8
0562	AAD	IEEE 802.11ac WIFI (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	±9.6
0583	AAD	IEEE 802.11ac WIFI (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6
0564	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
0565	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
0588	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	±9.6
0567	AAA	IEEE 602.11g WFI 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	19.6
-	_				
10568	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
0560	AAA	IEEE 802.11g WIFt 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WEAN	8.10	±9.6
0570	AAA	IEEE 802.11g WiFl 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	19.6
0571	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
0572	AAA	IEEE 802.11b WiFi 2.4 SHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1,99	±9.6
0573	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
0574	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1,98	±9.6
0575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
0576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
0577	AAA	IEEE 802 11g WIF: 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
0678	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
0579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
0580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	19.6
10581	AAA	IEEE 802 11g WIFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
0.583	AAC	IEEE 802 11a/h WIFI 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
0.584	AAC	IEEE 802 11a/h WIF-5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
					-
0585	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
0586	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 16 Mops, 90pc duty cycle)	WLAN	8.49	±9.6
0587	AAC	IEEE 802,11a/h WIFI 5 GHz (OFDM, 24 Mops, 90pc duty cycle)	WLAN	8.36	±9.6
0.588		IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10589	and the second second	IEEE 802.11e/h WiFi S GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
0590		IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	19.6
0.591	AAC	IEEE 802,11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.8
0592	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.0
0.593	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.6
0594	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
0595	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6
10596		IEEE 802.11n (HT Mixed, 20 MHz, MCSS, 90pc duty cycle)	WLAN	8.71	±9.6
0597	to the second	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)	WLAN	8.72	19.6
0598	-	IEEE 802.11m (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9.6
0999	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	19.6
0600	and the second second	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	19.6
10801	AAC		The state of the s		
		IEEE 802,11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.6
10802		IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.0
10803		IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.0
10604	AAC	IEEE 802.11n (HT Mixed, 48 MHz, MCSS, 90pc duty cycle)	WLAN	8.76	19.6
0.605	A 1 TO 1 TO 1	IEEE 802.11n (HT Mixed, 40 MHz, MCS8, 90pc duty cycle)	WLAN	8.97	±9.6
10,608	Charles Control (c)	IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
0607	AAC	IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle)	WLAN	8.64	19.6
0.608	AAC	IEEE 802.11ac WIFI (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.77	±9.6

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UID	Bev	Communication System Name	Group	PAR (dB)	Unc ^e N =
10609	AAC	IEEE 802.11ac WIFI (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6
10610	AAC	IEEE 802.11ac WIFI (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	19.8
10611	AAC	IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±5.6
0612	AAC	IEEE 802.11ac WiFi (20 MHz, MCSS, 90pc duty cycle)	WLAN	8.77	±9.6
0613	AAC	IEEE 802,11ac WiFi (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.94	±9.6
0614	AAC	IEEE 802.11ac WIFI (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.59	±9.6
	AAC	IEEE 802.11ac WIFI (20 MHz, MCSS, 90pc duty cycle)	WLAN	8.82	±9.6
0616	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle)	WLAN	0.92	±9.6
0617	AAC	IEEE 802 11ac WIFi (40 MHz; MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
0618	AAC	IEEE 802.11ac WIFI (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
	AAC	IEEE 802 11ac WIFI (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.86	19.6
-	AAC	IEEE 802.11ac WIFI (40 MHz. MCS4, 90pc duty cycle)	WLAN	8.67	±9.6
- 0-0-1	AAC	IEEE 802.11ac WIFI (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	19.6
	AAG	IEEE B02.11ac WIFI (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6
-	AAC	IEEE 802 11ac WIFI (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	19.6
	10.14				-
	AAC	IEEE 802.11ac WIFI (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.96	±9.6
0625	AAC	IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6
	AAC	IEEE 802.11ap WIFI (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
0.627	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle)	WLAN	88.8	±9.6
0628	AAG	IEEE 802.11ac WIFI (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.71	±9:6
0.629	AAC	IEEE 802.11ac WIF (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
0630	AAC	IEEE 802.11ac WIFI (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6
0631	AAC	IEEE 802.11ac WiFi (80 MHz, MCSS, 90pc duty cycle)	WLAN	8.81	±9.6
10632	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.74	±9.8
10633	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle)	WIAN	8.83	±9.6
10634	AAC	IEEE 802.11ac WIFI (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.6
10635	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6
10636	AAD	IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10637	AAD	IEEE 802.11ac WIFI (160 MHz; MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10638	AAD	IEEE 802,11ac WIFI (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.86	±9.6
10639	AAD	IEEE 802.11ac WIFI (160 MHz. MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10640	AAD	IEEE 802.11ac WIFI (160 MHz, MCS4, 90pc duty cycle)	WEAN	8.98	±9.6
10641	AAD	IEEE 802.11ac WIFI (160 MHz, MCSS, 90pc duty cycle)	WLAN	9.06	
			1,000,000	-	±9.6
10642	AAD	IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10643	AAD	IEEE 802.11ac WIFI (160 MHz, MCS7, 90pc duty cycle)	WI,AN	8.89	±9.6
10644	AAD	IEEE 802.11ac WIFI (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	19.6
10645	AAD	IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK, UL Subframe=2,7)	LTE-TOD	11.96	±9.6
10647	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subhami-2,7)	LTE-TDD	11.96	±9.6
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	19.6
10652	AAF	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Glipping 44%)	LTE-TOD	6.91	±9.6
10653	AAF	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	7.42	±9.6
10654	AAE	LTE-TDD (OFDMA, 15MHz, E-TM 3.1, Clipping 44%)	LTE-TOO	6.96	±9.8
10665	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TOO	7.21	±9.6
10658	AAB	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6
10659	AAB	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6
10660	AAB	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6
10661	AAB	Pulsa Waysform (200Hz, 60%)	Test	2.22	±9.6
10662	AAB	Pulse Wayeform (200Hz, 80%)	Test	0.97	19.6
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	±9.6
10671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	9.09	±9.6
10672	AAC	IEEE B02.11ax (20MHz, MCS1, B0pc duty cycle)	WLAN	8.57	
-	AAC				±9.6
10673		IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.6
10674	AAC	IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	193
10675	AAC	IEEE 802.11ax (20MHz, MCB4, 90pc duty cycle)	WLAN	8.90	±9.0
0.676	AAC	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10677	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.73	±9.6
10678	AAC	IEEE B02.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
10.679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.4
10680	AAC	IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
10681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.8
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	0.03	±9.6
10683	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	19.6
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6
10685	AAC	EEE 802 11ax (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
	AAC	IEEE 802 11ax (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.28	±9.0

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UID	:Bev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6
10688	AAC	IEEE 802.11ax (20 MHz, MCSS, 99pc duty cycle)	WLAN	8.29	±9.6
10689	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.55	±9.6
10690	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	19.6
10691	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6
10892	AAC	IEEE 802.11ax (20 MHz, MCSB, 99pc duty cycle)	WLAN	8.29	±9.6
10693	AAG	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8.25	19.6
10994	AAC	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLAN	8.57	19.6
10095	AAC	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.78	
10696	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	100000	±9,6
10897	AAC			8.91	±9.6
	Street, Square, and second	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.61	±9.6
10698	AAC	IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.89	±9.6
10699	AAC	IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.62	±9.6
10700	AAC	IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.73	±9.6
10701	AAG	IEEE 802.11ax (40 MHz; MCS6, 90pc duty cycle)	WLAN	8.86	±9.6
10702	AAC	IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.70	±9.6
10703	AAC	IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6
10705	AAG	IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle)	WLAN	8.69	20.6
10,706	AAC	IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±9.6
0.707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.32	±9.6
10708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.29	19.6
10711	AAG	IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±9.6
10712	AAG	IEEE 802.11ax (40 MHz, MCSS, 99pc duty cycle)	WLAN	8.67	19.6
10713	AAC	IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)	WLAN	10000	
10714	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)	10.10.10.10.	8,33	±9.6
10715	AAC		WLAN	8.26	±9.6
10716		IEEE 902 11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.45	±9.8
	AAC	IEEE 802.11ax (40 MHz, MC59, 99pc duty cycle)	WLAN	8.30	±9.6
10717	AAC	IEEE 802 11ax (40 MHz, MC510, 99pc duty cycle)	WLAN	8.48	±9.6
10718	AAC	IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.24	±9.6
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.81	±9.6
10720	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10721	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.76	±9.6
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6
10723	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10724	AAC	IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.90	19.6
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10726	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.72	±9.6
10727	AAC	IEEE 802 11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6
10728	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.65	±9.6
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	±9.6
10730	AAC	IEEE 802.11ax (80 MHz. MCS11, 90pc duty cycle)	WLAN	8.67	19.6
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN	100000000000000000000000000000000000000	Author Con
10732	AAG	IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)		8.42	±9.6
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.46	±9.6
10734	AAC		WLAN	8.40	±9.6
the Standard Select	0.000	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.25	±9.6
10735	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	±9.6
10736	AAC	IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.27	±9.6
10737	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.36	±9.8
10738	AAC	IEEE 802 11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6
10739	AAC	IEEE 802.11ax (80 MHz, MCS8, 98pc duty cycle)	WLAN	8.29	±9.6
10740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.6
10741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8,40	±9.6
0742	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WEAN	8.43	±9.6
10743	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	±9.8
10744	AAG	IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	9.16	±9.6
10745	AAG	IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.93	±9.6
10746	AAC	IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN	9.11	±9.6
10747	AAC	IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN	9.04	10.6
10748	AAC	IEEE 802.11ax (160 MHz, MCSS, 90pc duty cycle)	WLAN	1.0000.0	
10749	AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN	8.93	29.6
10750	AAC	IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle)		8.90	±9.6
10751	AAG		WLAN	8.79	±9.6
10/103	Anna Marina Grand	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)	WLAN	8.82	±9.6
10752	AAC		WLAN	8.61	

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10.755 AA. 10.756 AA. 10.756 AA. 10.757 AA. 10.758 AA. 10.768 AA. 10.768 AA. 10.768 AA. 10.768 AA. 10.768 AA. 10.768 AA. 10.767 AA. 10.768 AA. 10.767 AA. 10.768 AA. 10.768 AA. 10.768 AA. 10.769 AA. 10.770 AA. 10.770 AA. 10.770 AA. 10.771 AA. 10.772 AA. 10.773 AA. 10.774 AA. 10.775 AA. 10.778 AA.	C IEEE 802.11ax (190 MHz, MCS11, 90pc duty cycle) C IEEE 802.11ax (190 MHz, MCS0, 99pc duty cycle) C IEEE 802.11ax (190 MHz, MCS1, 99pc duty cycle) C IEEE 802.11ax (190 MHz, MCS1, 99pc duty cycle) C IEEE 802.11ax (190 MHz, MCS3, 99pc duty cycle) C IEEE 802.11ax (190 MHz, MCS3, 99pc duty cycle) C IEEE 802.11ax (190 MHz, MCS3, 99pc duty cycle) C IEEE 802.11ax (190 MHz, MCS3, 99pc duty cycle) C IEEE 802.11ax (190 MHz, MCS3, 99pc duty cycle) C IEEE 802.11ax (190 MHz, MCS7, 99pc duty cycle) C IEEE 802.11ax (190 MHz, MCS7, 99pc duty cycle) C IEEE 802.11ax (190 MHz, MCS8, 99pc duty cycle) C IEEE 802.11ax (190 MHz, MCS8, 99pc duty cycle) C IEEE 802.11ax (190 MHz, MCS8, 99pc duty cycle) C IEEE 802.11ax (190 MHz, MCS10, 99pc duty cycle) C IEEE 80	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	9.00 8.94 8.64 8.77 8.77 8.78 8.49 8.53 0.54 8.51 7.99 8.01 8.02 8.02 8.03	19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6
10795 AAC 10795 AAC 10795 AAC 10795 AAC 10795 AAC 10798 AAC 10797 AAC 10777 AAC 10777 AAC 10777 AAC 10779	C IEEE 802.11ax (160 MHz, MCS0, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS1, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS2, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS2, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS4, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS4, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS4, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS4, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS8, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS8, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS8, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS8, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS8, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS8, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS8, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS8, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS11, 98pc duty cycle) C IEEE 802.1	WLAN WILAN GO NA FRI TOD SO NA FRI TOD	8.64 8.77 8.77 8.59 0.58 8.49 0.53 0.54 8.51 7.99 8.01 8.02 8.02 8.03 8.03 8.03 8.30 8.30 8.30 8.30 8.30	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10756 AAC 10757 AAC 10757 AAC 10758 AAC 10759 AAC 10750 AAC 10761 AAC 10762 AAC 10762 AAC 10762 AC 10762 AC 10763 AC 10764 AC 10768 AC 10768 AC 10768 AC 10769 AC 10769 AC 10770 AC 10771 AC 107	C IEEE 802.11ax (160 MHz, MCS1, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS2, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS3, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS3, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS5, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS5, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS5, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS6, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS8, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS8, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS8, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS9, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS1, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS1, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS1, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS1, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS1, 198pc duty cycle) C IEEE 802.1	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.77 8.77 8.78 8.58 8.49 9.58 8.49 9.53 0.54 8.51 7.99 8.01 8.02 8.02 8.03 8.02 8.03 8.03 8.30 8.30 8.34 8.34 8.34 8.34 8.34 8.34 8.34 8.34	19.8 19.8 19.8 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6
10757 AAI 10758 AAI 10758 AAI 10760 AAI 10760 AAI 10761 AAI 10761 AAI 10762 AAI 10763 AAI 10763 AAI 10764 AAI 10765 AAI 10767 AAI 10767 AAI 10770 AAI 10771 AAI 10771 AAI 10777 AAI 10777 AAI 10778	C IEEE 802.11ax (100 MHz. MCS2, 99pc duly cycle) C IEEE 802.11ax (150 MHz. MCS3, 99pc duly cycle) C IEEE 802.11ax (150 MHz. MCS5, 99pc duly cycle) C IEEE 802.11ax (150 MHz. MCS5, 99pc duly cycle) C IEEE 802.11ax (150 MHz. MCS8, 99pc duly cycle) C IEEE 802.11ax (150 MHz. MCS8, 99pc duly cycle) C IEEE 802.11ax (150 MHz. MCS8, 99pc duly cycle) C IEEE 802.11ax (150 MHz. MCS8, 99pc duly cycle) C IEEE 802.11ax (150 MHz. MCS9, 99pc duly cycle) C IEEE 802.11ax (150 MHz. MCS9, 99pc duly cycle) C IEEE 802.11ax (160 MHz. MCS10, 99pc duly cycle) C IEEE 802.11ax (160 MHz. MCS10, 99pc duly cycle) C IEEE 802.11ax (160 MHz. MCS11, 99pc duly cycle) C IEEE 802.11ax (160 MHz. MCS11, 99pc duly cycle) C IEEE 802.11ax (160 MHz. MCS11, 99pc duly cycle) C IEEE 802.11ax (160 MHz. MCS11, 99pc duly cycle) C IEEE 802.11ax (180 MHz. MCS11, 99pc duly cycle) C IEEE	WILAN GO NR FRI TDD SG NR FRI TDD	8.77 8.69 6.58 8.49 6.58 8.49 6.54 8.51 7.59 6.01 8.01 8.02 8.23 8.03 8.02 8.31 8.30 8.31 8.34 8.31 8.34 8.31 8.34 8.31 8.34 8.31 8.34 8.31 8.34 8.31 8.34 8.34 8.35 8.31 8.34 8.35 8.35 8.35 8.35 8.35 8.35 8.35 8.35	19.6 ±9.6
0758 AAC 0759 AAC 0759 AAC 0759 AAC 0759 AAC 0760 AAC 0761 AAC 0762 AAC 0762 AAC 0762 AAC 0768 AAC 0768 AAC 0768 AAC 0768 AAC 0768 AAC 0768 AAC 0769 AAC 0776 AAC 0776 AAC 0777 AAC 0776 AAC 0777 AAC 0776 AAC 0777 AAC 0776 AAC 0777 AAC 0776 AAC 0776 AAC 0777 AAC 0776 AAC 0777 AAC 0777 AAC 0778 AAC 077	C IEEE 802.11ax (160 MHz, MGS3, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MGS4, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MGS5, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MGS5, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MGS7, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MGS8, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MGS8, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MGS8, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MGS10, 19pc Hz, 19pc Hz	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.69 8.58 8.49 0.53 9.54 8.51 7.99 8.01 8.01 8.02 8.02 8.03 8.03 8.03 8.34 8.34 8.34 8.34 8.34 8.34 8.35 8.31 8.34 8.34 8.34 8.34 8.34 8.34 8.34 8.34	#9.6 ±9.6
10759 AAI 10760 AAI 10761 AAI 10762 AAI 10762 AAI 10763 AAI 10768 AAI 10768 AAI 10769 AAI 10769 AAI 10776 AAI 10776 AAI 10777 AAI 10778 AAI 10788 AAI	C IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCS5, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS5, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS6, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS8, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS8, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS8, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS8, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS11, 15kHz) C IEEE 802.11a	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.58 8.49 8.58 8.59 8.55 0.54 8.51 7.99 8.01 8.02 8.02 8.03 8.03 8.03 8.30 8.30 8.30 8.30 8.31 8.32 8.33 8.34 8.31 8.32 8.33 8.34 8.34 8.34 8.34 8.34 8.34 8.34	±9.6 ±9.8 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10760 AA(10761 AA(10762 AA(107	C IEEE 802.11ax (160 MHz, MCSS, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 198pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 198pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 198pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 198pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 198pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 198pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 154 Mz) C IEEE 802.11ax (160 MHz, MCSR, 164 MHz, MCSR, 164 Mz) C IEEE 802.11ax (160 MHz, MCSR, 164 MHz, MCSR, 164 Mz) C IEEE 802.11ax (160 MHz, MCSR, 164 MHz, MCSR, 164 Mz) C IEEE 802.11ax (160 MHz, MCSR, 164 MHz, MCSR, 164 Mz) C IEEE 802.11ax (160 MHz, MCSR, 164 MHz, MCSR, MCSR, 164 Mz) C IEEE 802.11ax (160 MHz, MCSR, 164 MHz, MCSR, MCSR, 164 Mz) C IEEE 802.11ax (160 MHz, MCSR, 164 MHz, MCSR, MCSR, 164 Mz) C IEEE 802.11ax (160 MHz, MCSR, MCSR, MCSR, MCSR, MCSR, MCSR,	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.49 8.58 8.49 0.55 0.54 8.51 7.59 0.01 8.01 8.02 8.02 8.03 8.02 8.30 8.30 8.30 8.34 8.38 8.38 8.38 8.38 8.38 8.39 8.31 8.32 8.33 8.34 8.35	19.6 19.8 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6
10761 AAI 10762 AAI 10762 AAI 10763 AAI 10764 AAI 10765 AAI 10766 AAI 10766 AAI 10767 AAI 10776 AAI 10777 AAI 10778 AAI 10780 AAI 10781 AAI 10782 AAI 10783 AAI 10788 AAI 10788 AAI 10788 AAI 10788 AAI 10788 AAI 10788 AAI 10789 AAI 10789 AAI 10799 AAI 10799 AAI 10799 AAI 10799 AAI	C IEEE 802.11ax (160 MHz, MCSR, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR), 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR), 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR), 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR), 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR), 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR), 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR), 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR), 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR), 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCSR), 15kHz) C IEEE 802.11ax (160 MHz, MCSR), 15kHz) C ISG NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15kHz) C IEEE 802.11ax (160 MHz, QPSK, 15kHz) C IEEE 802.11ax	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.58 8.49 9.54 8.51 7.59 0.01 8.01 8.02 8.23 8.03 8.03 8.30 8.31 8.34 8.42 8.38 8.34 8.42 8.38 8.31 8.43 8.43	19.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±
10762 AAI 10763 AAI 10764 AAI 10765 AAI 10766 AAI 10766 AAI 10767 AAI 10767 AAI 10770 AAI 10771	C IEEE 802.11ax (160 MHz, MCS7, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS8, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS8, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS8, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS11, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS11, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS11, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS11, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS11, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS11, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS11, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS11, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS11, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS11, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS11, 98pc duty cycle) C IEEE 802.11ax (160 MHz, MCS11, 154 Mz) C IEEE 802.11ax (160 MTz, MCS11, 154 Mz) C IEEE 802.11ax (160 Mz, MCS1	WLAN WLAN WLAN WLAN WLAN WLAN SG NR FRI TDD	8.49 8.53 8.54 8.51 7.99 8.01 8.02 8.02 8.03 8.03 8.03 8.31 8.30 8.31 8.34 8.34 8.35 8.31 8.30 8.31 8.32 8.31 8.31 8.32 8.31 8.31 8.32 8.31 8.31 8.32 8.31 8.31 8.32 8.31 8.31 8.32 8.31 8.31 8.32 8.31 8.31 8.32 8.31 8.32 8.31 8.32 8.31 8.32 8.31 8.32 8.32 8.32 8.33 8.34 8.35	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10783 AAI 10784 AAI 10785 AAI 10786 AAI 10787 AAI 10787 AAI 10770 AAI 10771 AAI 10777 AAI 10777 AAI 10777 AAI 10777 AAI 10777 AAI 10778 AAI 10788 AAI 10788 AAI 10788 AAI 10788 AAI 10788 AAI 10788 AAI 10789 AAI	LC IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) E 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 HHz) D 5G NR (CP-OFDM, 100% RB, 50 MHz	WLAN WLAN WLAN WLAN WLAN SG NR FRI TDD	8.53 8.54 8.51 7.59 8.01 8.02 8.02 8.02 8.03 8.02 8.30 8.30 8.30 8.30 8.31 8.38 8.38 8.38 8.38 8.38 8.38 8.39 8.31 8.31 8.32 8.33 8.34 8.35	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10764 AAI 10765 AAA 10765 AAA 10766 AAI 10768 AAI 10768 AAI 10768 AAI 10769 AAI 10772 AAI 10772 AAI 10774 AAI 10775 AAI 10776 AAI 10777 AAI 10777 AAI 10778 AAI 10778 AAI 10780 AAI 10780 AAI 10780 AAI 10780 AAI 10781 AAI 10782 AAI 10783 AAI 10783 AAI 10785 AAI 10786 AAI 10788 AAI	C IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) C IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) E SG NR (CP-OPDM, 1 RB, 5 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1 RB, 10 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1 RB, 10 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1 RB, 20 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1 RB, 20 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1 RB, 30 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1 RB, 30 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1 RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 505, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 505, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 505, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 505, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 505, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 505, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 505, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 505, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 505, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 505, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 505, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK, 15 MHz) C SG NR (CP-OPDM, 1005, RB, 50 MHz, QPSK,	WLAN WLAN WLAN WLAN WLAN SG NR FRI TDD	8.54 8.54 8.51 7.59 8.01 8.02 8.02 8.02 8.33 8.02 8.31 8.30 8.34 8.42 8.38 8.34 8.42 8.38 8.34 8.42 8.38 8.34 8.34 8.35 8.35 8.35 8.35 8.35 8.35 8.35 8.35	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10765 AAI 10768 AAI 10768 AAI 10768 AAI 10768 AAI 10769 AAI 10770 AAI 10772 AAI 10772 AAI 10773 AAI 10776 AAI 10776 AAI 10777 AAI 10777 AAI 10777 AAI 10777 AAI 10778 AAI 10783 AAI 10780 AAI 10788 AAI 10789 AAI 10789 AAI 10798 AAI	C IEEE 802.11ax (180 MHz, MCS10, 99pc duty cycle) C IEEE 802.11ax (180 MHz, MCS11, 99pc duty cycle) E 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	WLAN WLAN SG NA FRI TDD	8.54 8.51 7.99 8.01 8.02 8.02 8.03 8.03 8.03 8.30 8.31 8.34 8.34 8.34 8.35 8.36 8.36 8.36 8.37 8.38 8.38 8.38 8.38 8.38 8.38 8.38	29.6 29.6 29.6 29.6 29.6 29.6 29.6 29.6
10768 AAI 10767 AAI 10768 AAI 10769 AAI 10769 AAI 10770 AAI 10771	C. IEEE 802.11ax (160 MHz, MCS11, 98pc duly cycle) E. SG NR (CP-OFDM, 1 RB, 16 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 1 RB, 16 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 1 RB, 26 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 1 RB, 26 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 1 RB, 36 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 1 RB, 36 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 1 RB, 36 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 1 RB, 36 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 1 RB, 36 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D. SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz)	WLAN 8G NR FRI TDD 5G NR FRI TDD	8.51 7.99 8.01 8.02 8.02 8.03 8.03 8.02 8.30 8.30 8.30 8.30 8.31 8.34 8.34 8.35 8.35 8.36 8.36 8.36 8.37 8.38 8.38 8.38 8.38 8.38 8.38 8.38	#9.6 #9.6 #9.6 #9.6 #9.6 #9.6 #9.6 #9.6
10767 AAI 10768 AAI 10770 AAI 10771 AAI 10772 AAI 10772 AAI 10773 AAI 10775 AAI 10775 AAI 10778 AAI 10778 AAI 10780 AAI 10781 AAI 10780 AAI 10790 AAI 10790 AAI 10790 AAI 10790 AAI 10790 AAI	E SG NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 36 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 56 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MMz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MMz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MMz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MMz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MMz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MMz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MMz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 5 MMz, QPSK, 15 MHz)	SG NR FRI TDD	7,99 8.01 8.02 8.02 8.23 8.02 8.31 8.30 8.30 8.34 8.42 8.34 8.42 8.38 8.34 8.34 8.42 8.38 8.34 8.42 8.38 8.43 8.43 8.43 8.43 8.43 8.43 8.43	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10788 AAI 10789 AAI 10770 AAI 10771 AAI 10772 AAI 10772 AAI 10775 AAI 10775 AAI 10776 AAI 10777 AAI 10777 AAI 10778 AAI 10778 AAI 10780 AAI 10780 AAI 10780 AAI 10781 AAI 10782 AAI 10783 AAI 10784 AAI 10785 AAI 10786 AAI 10787 AAI 10787 AAI 10788 AAI 10788 AAI 10788 AAI 10788 AAI 10789 AAI	D SG NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz)	50 NR FRI TDD	8.01 8.01 8.02 8.02 8.03 8.03 8.03 8.30 8.30 8.34 8.42 8.38 8.34 8.42 8.38 8.38 8.38 8.38 8.38 8.38 8.38	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10789 AAI 10770 AAI 10771 AAI 10772 AAI 10773 AAI 10773 AAI 10774 AAI 10776 AAI 10776 AAI 10777 AAI 10777 AAI 10777 AAI 10777 AAI 10778 AAI 10783 AAI 10783 AAI 10788 AAI 10788 AAI 10788 AAI 10788 AAI 10788 AAI 10789 AAI	D SG NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) D SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz)	SG NR FRI TDD	8.01 8.02 8.02 8.03 8.03 8.03 8.30 8.30 8.30 8.34 8.38 8.38 8.38 8.38 8.38 8.38 8.38	#9.6 #9.6 #9.6 #9.6 #9.6 #9.6 #9.6 #9.6
10770 AAI 10771 AAI 10771 AAI 10772 AAI 10773 AAI 10774 AAI 10775 AAI 10776 AAI 10777 AAI 10778 AAI 10780 AAI 10783 AAI 10783 AAI 10783 AAI 10784 AAI 10787 AAI 10787 AAI 10788 AAI 10789 AAI 10789 AAI 10790 AAI 10790 AAI 10790 AAI 10790 AAI 10793 AAAI 10793 AAAI 10798 AAII	DO SO NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 50 RB, 50 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 50 RB, 10 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 50 RB, 10 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 50 RB, 25 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 50 RB, 25 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 50 RB, 30 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 50 RB, 30 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 50 RB, 50 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 50 RB, 50 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 100 RB, 50 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 100 RB, 50 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 100 RB, 50 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 100 RB, 50 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 100 RB, 50 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 100 RB, 30 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 100 RB, 30 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 100 RB, 30 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 100 RB, 30 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 100 RB, 30 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 100 RB, 30 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 100 RB, 30 MHz, QPSK, 15 KHz) OD SG NR (CP-OFDM, 100 RB, 30 MHz, QPSK, 15 KHz)	SG NR FRI TDD	8.02 8.02 8.03 8.03 8.02 8.31 8.30 8.30 8.34 8.42 8.38 8.38 8.43 8.31 8.31 8.31 8.30	#9.6 #9.0 #9.6 #9.6 #9.6 #9.6 #9.6 #9.6 #9.6 #9.6
10771 AAI 10772 AAI 10772 AAI 10773 AAI 10773 AAI 10775 AAI 10776 AAI 10776 AAI 10778 AAI 10778 AAI 10778 AAI 10780 AAI 10781 AAI 10782 AAI 10783 AAI 10783 AAI 10785 AAI 10786 AAI 10787 AAI 10788 AAI 10798 AAI 10798 AAI 10798 AAI	O SG NR (CP-OFDM, 1 RB, 25 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 1 RB, 30 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 1 RB, 40 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 1 RB, 50 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 505 RB, 50 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 505 RB, 10 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 505 RB, 10 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 505 RB, 10 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 505 RB, 25 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 505 RB, 30 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 505 RB, 30 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 505 RB, 50 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 505 RB, 50 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 505 RB, 50 MHz, CPSK, 15 kHz) SG NR (CP-OFDM, 1005 RB, 50 MHz, CPSK, 15 kHz) SG NR (CP-OFDM, 1005 RB, 50 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 1005 RB, 50 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 1005 RB, 50 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 1005 RB, 50 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 1005 RB, 50 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 1005 RB, 50 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 1005 RB, 50 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 1005 RB, 50 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 1005 RB, 50 MHz, CPSK, 15 kHz) O SG NR (CP-OFDM, 1005 RB, 50 MHz, CPSK, 15 kHz)	SG NA FRI TDD	8.02 8.23 8.03 8.02 8.31 8.30 8.34 8.42 8.38 8.43 8.43 8.43 8.43 8.43	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10772 AAI 10773 AAI 10773 AAI 10775 AAI 10776 AAI 10776 AAI 10777 AAI 10777 AAI 10777 AAI 10779 AAI 10779 AAI 10778 AAI 10778 AAI 10781 AAI 10782 AAI 10783 AAI 10784 AAI 10785 AAI 10786 AAI 10787 AAI 10788 AAI 10788 AAI 10788 AAI 10789 AAI	SG NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 MHz) O	SG NR FRI TDD SG NR FRI TDD BG NR FRI TDD SG NR FRI TDD	8.23 8.03 8.02 8.31 8.30 8.34 8.42 8.38 9.38 9.43 8.31 8.31 8.31 8.31	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10773 AAI 10774 AAI 10774 AAI 10776 AAI 10776 AAI 10777 AAI 10777 AAI 10778 AAI 10783 AAI 10783 AAI 10783 AAI 10784 AAI 10788 AAI 10788 AAI 10788 AAI 10788 AAI 10788 AAI 10788 AAI 10789 AAI 10789 AAI 10790 AAI	50 NR (CP-OFDM, 1 RB, 40 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 1 RB, 50 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 1 RB, 50 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 50% RB, 10 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 50% RB, 10 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 50% RB, 20 MHz, DPSK, 15 kHz) (C 5G NR (CP-OFDM, 50% RB, 20 MHz, DPSK, 15 kHz) (C 5G NR (CP-OFDM, 50% RB, 30 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 50% RB, 30 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 50% RB, 50 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 50% RB, 50 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 100% RB, 50 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 100% RB, 50 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 100% RB, 50 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 100% RB, 50 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 100% RB, 50 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 100% RB, 50 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 100% RB, 50 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 100% RB, 50 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 100% RB, 50 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 100% RB, 50 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 100% RB, 50 MHz, DPSK, 15 kHz) (D 5G NR (CP-OFDM, 100% RB, 50 MHz, DPSK, 15 kHz)	SG NR FRI TDD 8G NR FRI TDD 8G NR FRI TDD 5G NR FRI TDD	8.03 8.02 8.31 8.30 8.34 8.42 8.38 9.38 9.38 9.43 8.43 9.31 8.29 8.40 9.35	#9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.8 ±9.8 ±9.8 ±9.8
10774 AA 10775 AA 10776 AA 10776 AA 10778 AA 10778 AA 10779 AA 10782 AA 10782 AA 10783 AA 10785 AA 10785 AA 10786 AA 10787 AA 10788 AA 10789 AA 10788 AA 10788 AA 10788 AA	SG NR (CP-OFDM, 1 RB, 50 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 50% RB, 5 MHz, CPSK, 15 kHz) SG NR (CP-OFDM, 50% RB, 10 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 50% RB, 10 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 50% RB, 25 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 50% RB, 25 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 50% RB, 35 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 50% RB, 40 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 50% RB, 40 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 50% RB, 50 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 100% RB, 50 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 100% RB, 50 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 100% RB, 50 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 100% RB, 50 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 100% RB, 30 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 100% RB, 30 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 100% RB, 30 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 100% RB, 30 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 100% RB, 30 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 100% RB, 30 MHz, CPSK, 15 kHz) KD SG NR (CP-OFDM, 100% RB, 30 MHz, CPSK, 15 kHz)	BG NR FRI TDD SG NR FRI TDD	8.02 8.31 8.30 8.30 8.34 8.42 8.38 8.43 8.43 8.43 8.43 8.43 8.31 8.31 8.40 8.35	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.8 ±9.8 ±9.8 ±9.8 ±9.8
10776 AAI 10777 AAI 10777 AAI 10777 AAI 10779 AAI 10779 AAI 10779 AAI 10778 AAI 10782 AAI 10782 AAI 10783 AAI 10785 AAI 10786 AAI 10787 AAI 10788 AAI	SG NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 MHz) DSG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 MHz)	SO NR FRI TDD SG NR FRI TDD BG NR FRI TDD BG NR FRI TDD SG NR FRI TDD	8.31 8.30 8.30 8.34 8.42 8.38 8.38 8.38 8.31 8.29 8.40 8.35	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10.776 AA 10.777 AA 10.777 AA 10.779 AA 10.779 AA 10.780 AA 10.782 AA 10.783 AA 10.784 AA 10.785 AA 10.786 AA 10.788 AA 10.788 AA 10.788 AA 10.789 AA 10.789 AA 10.789 AA 10.789 AA 10.789 AA 10.789 AA	LD SG NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) CD SG NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz) D SG NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) CD SG NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) DD SG NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) D SG NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz) DD SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) DD SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) DD SG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) DS SG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) DS SG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	SG NR FRI TDD BG NR FRI TDD BG NR FRI TDD SG NR FRI TDD	8.30 8.30 8.34 8.42 8.38 8.38 8.43 8.31 8.29 8.40 8.35	19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6
10777 AA 10778 AA 10779 AA 10779 AA 10780 AA 10781 AA 10782 AA 10783 AA 10784 AA 10785 AA 10786 AA 10786 AA 10788 AA 10788 AA 10788 AA 10788 AA	C SG NR (CP-OFDM, 50% RB, 15MHz, QPSK, 15MHz) AD SG NR (CP-OFDM, 50% RB, 20MHz, QPSK, 15MHz) C SG NR (CP-OFDM, 50% RB, 25MHz, QPSK, 15MHz) AD SG NR (CP-OFDM, 50% RB, 25MHz, QPSK, 15MHz) AD SG NR (CP-OFDM, 50% RB, 40MHz, QPSK, 15MHz) AD SG NR (CP-OFDM, 50% RB, 50MHz, QPSK, 15MHz) AD SG NR (CP-OFDM, 50% RB, 50MHz, QPSK, 15MHz) AD SG NR (CP-OFDM, 100% RB, 5MHz, QPSK, 15MHz) AD SG NR (CP-OFDM, 100% RB, 15MHz, QPSK, 15MHz) AD SG NR (CP-OFDM, 100% RB, 15MHz, QPSK, 15MHz) AD SG NR (CP-OFDM, 100% RB, 25MHz, QPSK, 15MHz) AD SG NR (CP-OFDM, 100% RB, 25MHz, QPSK, 15MHz) AD SG NR (CP-OFDM, 100% RB, 25MHz, QPSK, 15MHz) AD SG NR (CP-OFDM, 100% RB, 25MHz, QPSK, 15MHz) AD SG NR (CP-OFDM, 100% RB, 25MHz, QPSK, 15MHz) AD SG NR (CP-OFDM, 100% RB, 25MHz, QPSK, 15MHz) AD SG NR (CP-OFDM, 100% RB, 30MHz, QPSK, 15MHz) AD SG NR (CP-OFDM, 100% RB, 40MHz, QPSK, 15MHz)	SG NR FRI TDO SG NR FRI TDD	8.30 8.34 8.42 8.38 9.38 9.43 9.31 8.29 8.40 8.35	±9.6 ±9.6 ±9.8 ±9.8 ±9.6 ±9.0 ±9.0 ±9.6
10778 AA 10779 AA 10779 AA 10781 AA 10781 AA 10783 AA 10788 AA 10785 AA 10787 AA 10787 AA 10788 AA 10788 AA 10789 AA 10789 AA 10789 AA 10789 AA	AD SG NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) KC SG NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) D SG NR (CP-OFDM, 50% RB, 35 MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	SG NR FRI TDD	8.34 8.42 8.38 8.38 8.43 8.31 8.29 8.40 8.35	±9.6 ±9.8 ±9.6 ±9.0 ±9.0 ±9.6 ±9.6
10779 AA 10780 AA 10781 AA 10782 AA 10783 AA 10784 AA 10785 AA 10786 AA 10788 AA 10788 AA 10789 AA 10780 AA 10780 AA 10781 AA	KC 50 NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) AD 55 NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) AD 55 NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) AD 55 NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) AD 55 NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) AD 55 NR (CP-OFDM, 100% RB, 16 MHz, QPSK, 15 kHz) AD 55 NR (CP-OFDM, 100% RB, 16 MHz, QPSK, 15 kHz) AD 55 NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) AD 55 NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) AD 56 NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) AD 56 NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) AD 56 NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) AD 56 NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	SG NR FRI TDO BG NR FRI TDO BG NR FRI TDO BG NR FRI TDD	8.42 8.38 8.38 8.43 8.31 8.29 8.40 8.35	±9.8 ±9.6 ±9.0 ±9.0 ±9.6 ±9.6 ±9.6
10780 AAI 10781 AAI 10782 AAI 10783 AAI 10785 AAI 10786 AAI 10787 AAI 10788 AAI 10788 AAI 10788 AAI 10788 AAI 10788 AAI 10798 AAI 10798 AAI 10798 AAI 10798 AAI	AD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 100% RB, 35 MHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 100% RB, 35 MHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 100% RB, 35 MHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 100% RB, 45 MHz, QPSK, 15 kHz)	SG NR FRI TDO SG NR FRI TDD SG NR FRI TDD	8.38 8.38 8.43 8.31 8.29 8.40 8.35	19.6 19.6 19.6 19.6 19.6 19.6
10781 AA 10782 AA 10783 AA 10785 AA 10785 AA 10786 AA 10787 AA 10788 AA 10788 AA 10789 AA 10791 AA 10791 AA	AD SG NR (CP-OFOM, 50% RB, 40 MHz, QPSK, 15 MHz) AD SG NR (CP-OFOM, 50% RB, 50 MHz, QPSK, 15 MHz) E SG NR (CP-OFOM, 100% RB, 5 MHz, QPSK, 15 MHz) AD SG NR (CP-OFOM, 100% RB, 15 MHz, QPSK, 15 MHz) AD SG NR (CP-OFOM, 100% RB, 15 MHz, QPSK, 15 MHz) AD SG NR (CP-OFOM, 100% RB, 25 MHz, QPSK, 15 MHz) AD SG NR (CP-OFOM, 100% RB, 25 MHz, QPSK, 15 MHz) AD SG NR (CP-OFOM, 100% RB, 25 MHz, QPSK, 15 MHz) AD SG NR (CP-OFOM, 100% RB, 25 MHz, QPSK, 15 MHz) AD SG NR (CP-OFOM, 100% RB, 40 MHz, QPSK, 15 MHz)	5G MR FRI TOD 5G MR FRI TOD	8.38 8.43 8.31 8.29 8.40 8.35	±9.6 ±9.6 ±9.6 ±9.6
10782 AA 10783 AA 10784 AA 10785 AA 10786 AA 10788 AA 10788 AA 10788 AA 10780 AA 10791 AA 10792 AA	AD SQ NR (CP-OFDM, 50% RB, 50MHz, QPSK, 15 MHz) E 50 NR (CP-OFDM, 100% RB, 50MHz, QPSK, 15 MHz) D 50 NR (CP-OFDM, 100% RB, 10MHz, QPSK, 15 MHz) AD 50 NR (CP-OFDM, 100% RB, 10MHz, QPSK, 15 MHz) AD 50 NR (CP-OFDM, 100% RB, 20MHz, QPSK, 15 MHz) D 50 NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 MHz) D 50 NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 MHz) D 50 NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 MHz) D 50 NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 MHz)	5G NR FRI TDD 5G NR FRI TDD	8.43 8.31 8.29 8.40 8.35	±9.6 ±9.6 ±9.6
10783 AA 10784 AA 10785 AA 10786 AA 10787 AA 10788 AA 10789 AA 10790 AA 10791 AA 10792 AA	AE 5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 100% RB, 10 kHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 100% RB, 15 kHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 100% RB, 26 kHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 100% RB, 25 kHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 100% RB, 36 kHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 100% RB, 46 kHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 100% RB, 46 kHz, QPSK, 15 kHz) AD 5G NR (CP-OFDM, 100% RB, 46 kHz, QPSK, 15 kHz)	SG NR FRI TOD SG NR FRI TOD SG NR FRI TOD SG NR FRI TOD SG NR FRI TOD	8.31 8.29 8.40 8.35	±9.6 ±9.6 ±9.6
10783 AA 10784 AA 10785 AA 10786 AA 10787 AA 10788 AA 10789 AA 10790 AA 10791 AA 10792 AA	AE 5G NR (CP-OFDM, 100% R8, 5MHz, QPSK, 15 KHz) AD 5G NR (CP-OFDM, 100% R8, 10 MHz, QPSK, 15 KHz) AD 5G NR (CP-OFDM, 100% R8, 10 MHz, QPSK, 15 KHz) AD 5G NR (CP-OFDM, 100% R8, 20 MHz, QPSK, 15 KHz) AD 5G NR (CP-OFDM, 100% R8, 20 MHz, QPSK, 15 KHz) AD 5G NR (CP-OFDM, 100% R8, 30 MHz, QPSK, 15 KHz) AD 5G NR (CP-OFDM, 100% R8, 30 MHz, QPSK, 15 KHz) AD 5G NR (CP-OFDM, 100% R8, 30 MHz, QPSK, 15 KHz) AD 5G NR (CP-OFDM, 100% R8, 30 MHz, QPSK, 15 KHz)	SG NR FRI TOD SG NR FRI TOD SG NR FRI TOD SG NR FRI TOD SG NR FRI TOD	8.29 8.40 8.35	±9.6 ±9.6 ±9.6
10785 AA 10786 AA 10787 AA 10788 AA 10788 AA 10780 AA 10781 AA 10781 AA 10782 AA	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 MHz) 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 MHz) 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 MHz) 0 5G NR (CP-OFDM, 100% RB, 35 MHz, QPSK, 15 MHz) 4D 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 MHz) 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 MHz)	5G NA FR1 TDD 5G NA FR1 TDD 5G NA FR1 TDD	8.40 8.35	±9.6
10786 AA 10787 AA 10788 AA 10788 AA 10789 AA 10781 AA 10792 AA 10793 AA	AD 5G NR (CP-OFDM, 100% RB, 20MHz, QPSK, 15 MHz) D 5G NR (CP-OFDM, 100% RB, 25MHz, QPSK, 15 MHz) D 5G NR (CP-OFDM, 100% RB, 30MHz, QPSK, 15 MHz) D 5G NR (CP-OFDM, 100% RB, 30MHz, QPSK, 15 MHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.35	
10787 AA 10788 AA 10788 AA 10780 AA 10791 AA 10792 AA 10793 AA	AD SG NR (CP-OFDM, 100% RB, 25MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 100% RB, 35MHz, QPSK, 15 kHz) AD SG NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	1,000	10.0
10788 AA 10788 AA 10790 AA 10791 AA 10792 AA 10793 AA	D 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) D 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	200	±9.6
10789 AA 10790 AA 10791 AA 10792 AA 10793 AA	4D 5G NR (CP-OFDM, 100% RB, 40MHz, QPSK, 15 kHz)	P. C. S.	8.44	19.6
10790 AA 10791 AA 10792 AA 10793 AA		5G NR FR1 TDD	8.39	±9.6
10790 AA 10791 AA 10792 AA 10793 AA		5G NR FR1 TDD	8.37	±9.6
10791 AA 10792 AA 10793 AA	AD 5G NR (CP-OFDM, 100% RB, 50MHz, QPSK, 15MHz)	5G NR FR1 TDD	8.39	±9.6
10793 AA		5G NR FRI TDD	7.83	±9.6
		5G NR FRI TDD	7.92	±9.6
		50 NR FR1 TDD	7.95	±9.6
	COLUMN TO COLUMN AT THE COLUMN AT THE PARTY OF THE PARTY	5G NR FR1 TDD	7.82	±9.6
10795 AA		5G NR FR1 TDD	7.84	±9.6
10796 AA		5G NR FR1 TDD	7.82	±9.6
10797 AA		5G NR FR1 TDD	8.01	±9.6
10788 AA		SG NR FRI TDD	7.89	±9.6
10799 AA		50 NR FR1 TDD	7.93	±9.6
10801 AA	ADDIT DESCRIPTION DESCRIPTION DE LE PROPRIED DE LA	5G NR FR1 TDD	7.89	±9.6
10802 AA	Section Control by Control of Con	5G NR FRI TDO	7.87	19.6
10803 AA		5G NR FR1 TDO	7.83	±9.6
10805 AA		50 NR FR1 TOD	8.34	±9.6
10806 AA		SG NR FR1 TOO	8.37	19.6
10909 AA	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	5G NR FR1 TDO	8.34	19.6
10810 AA		5G NR FRI TDO	8.34	±9.6
18812 AA	The state of the s	50 NR FR1 T00	8.35	±9.6
10817 AA		5G NR FR1 TDD	8.35	±9.6
10818 AA	And I have a series and the series of the se	5G NR FRI TOO	8.34	±9.6
10819 AA		50 NR FR1 T00	8.33	19:8
10820 AA		5G NR FR1 TDO	8.30	19.8
10821 AA		5G NR FR1 TDD	8.41	±9.0
	The second state and army through the second state and second state and second	5G NR FR1 TDO	8.41	±9.6
10823 AA	AD SGINE (CRIOEOM 100% BB 30 MHz ORSK 30 MHz)	166 (801) (53) (166)	8.36	19.6
100,000	AD 5G NR (CP-OFOM, 100% RB, 30 MHz, QPSK, 30 kHz) AD 5G NR (CP-OFOM, 100% RB, 40 MHz, QPSK, 30 kHz)	AC NO EST TOO	444	
	AD 5G NR (CP-OFOM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	0.00	±9.6
	AD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) AD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	
10825 AA 10827 AA	AD SG NR (CP-OFOM, 100% RB, 40 MHz, QPSK, 30 KHz) AD 5G NR (CP-OFOM, 100% RB, 50 MHz, QPSK, 30 KHz) AD 5G NR (CP-QFDM, 100% RB, 60 MHz, QPSK, 30 KHz)		8.41 8.42	±9.6

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UID	Hev	Communication System Name	Group	PAR (dB)	Unch k =
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FRI TDD	8.40	±9.6
10830	AAD	56 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
0835	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 50 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, 38 MHz, QPSK, 86 kHz)	50 NR FR1 TDD	7.75	±9.6
0835	AAD	SG NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
0836	DAA	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)	50 NR FR1 TDD	7.70	±9.6
0840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	±9.6
0841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 50 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, 80 kHz)	5G NR FR1 TDD	8.34	±9.6
0846	AAD	5G NR (CP-OFOM, 50% RB, 30 MHz, QPSK, 60 kHz)	SG NR FR1 TDD	8.41	±9.6
0854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60kHz)	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
0.856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, OPSK, 80 kHz)	5G NR FR1 TDD	8.37	±9.6
0.857	AAD	SG NR (CP-OFOM, 100% RB, 25 MHz, QPSK, 80 kHz)	5G NR FR1 TOD	8.35	
State St	AAD	5G NR (CP-CFCM, 100% RB, 30 MHz, CPSK, 60 kHz)	5G NR FR1 TDD	1,750,000	±9.6
0858	AAD			8.36	±9.6
0859	TOTAL COLUMN	5G NR (CP-OFOM, 100% RB, 40 MHz, QPSK, 60kHz)	5G NR FR1 TDD	8.34	19.6
0860	AAD	5G NR (CP-OFOM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
0861	AAD	5G NR (CP-OFOM, 100% RB, 60 MHz, QPSK, 60 kHz)	SG NR FR1 TDD	8.40	±9.6
0.863	AAD	SG NR (CP-OFOM, 100% RB, 80 MHz, QPSK, 80 kHz)	5G NR FR1 TDD	8,41	±9.6
0884	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 80 kHz)	5G NR FR1 TDD	8.37	±9.6
0865	AAD	5G NR (CP-OFOM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	19.6
0886	AAD	5G NR (DFT-e-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0888	AAD	5G NR (DFT-e-QFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	±9.6
0869	AAE	5G NR (DFT-s-GFDM, 1 R8, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	1:9.6
0870	AAE	5G NR (DFTs-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	±9.6
0871	AAE	5G NR (DFT-e-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NA FR2 TOD	5.75	±9.6
0872	AAE	50 NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	±9.6
0873	AAE	SG NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10874	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NA FR2 TDD	6.65	±9.6
10875	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10876	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	6.39	±9.6
10877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	SG NR FR2 TDD	7.95	±9.6
10878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
0879	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 84QAM, 120 NHz)	56 NR FR2 T00	8.12	±9.6
0880	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 54QAM, 120 kHz)	5G NR FR2 TDD	8.38	±9.6
10.881	AAE	5G NR (DFT-e-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDO	5.75	±9.6
10882	AAE	50 NR (DFT-e-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	50 NR FR2 TDO	5.96	±9.6
0.883	AAE		SG NR FR2 TDO	6.57	
7777	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	100 March 200 Ma		19.8
10884	1,74,140	SG NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TOO	6.53	±9.6
10885	AAE	5G NR (DFT-a-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	50 NR FR2 TD0	0.61	±9.6
10886	AAE	5G NR (DFT:s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	19.6
0.687	AAE	SG NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	SG NR FR2 TOO	7.78	±9.6
0.888	AAE	5G NR (CP-CFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	SG NR FR2 TDD	8.35	±9.6
0.889	AAE	5G NR (CP-OFDM, 1 RB, 50MHz, 16GAM, 120kHz)	50 NR FR2 TD0	8.02	±9.6
0890	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	±9.6
0891	AAE	5G NR (CP-OFDM, 1 RB, 50MHz, 64GAM, 1204Hz)	5G NR FR2 TDD	8.13	±9.6
0.892	AAE	5G NR (CP-OFDM, 100% RB, 56 MHz, 84QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
0.897	AAC	5G NR (DFTs-OFDM, 1 RB, 5MHz, QPSK, 30NHz)	5G NR FR1 TD0	5.66	±9.6
0.898	AAB	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDO	5.67	±93
0899	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TD0	5.67	±9.6
0900	AAB	5G NR (DFT++ OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	59 NR FR1 TD0	5.88	±9.1
0901	-AAB	50 NR (DFT-e-OFDM, 1 RB, 25 MHz, QPSK, 30kHz)	5G NR FR! TDD	5.68	19.8
10902	AAB	5G NR (DFT-a-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FRI TDO	5.68	±9.1
10903	AAB	5G NR (DFTs-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.88	±9.6
10904	AAB	50 NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDO	5.68	+91
10905	AAB	5G NR (DFT-e-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10908	AAB	5G NR (DFT+-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.88	±8.0
	AAC	5G NR (DFT=OFDM, 50% RB, 5MHz, QPSK, 30KHz)	5G NR FR1 TDD	5.78	
		ou on just result on, ours no, owner, large, suithe)	SEL NIN CHI TOO	3.78	±9.8
10907	0.00	EQ NO IDETA DEDM SON DO 1018U- ODEO ANULLI	gain a six of the country	8.00	100
	AAB	5G NR (DFT+OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR (DFT+OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	5.93 5.96	±9.1

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k ≈
10911	AAB	5G NR (DFT-6-DFDM, 50% RB, 25 MHz, QPSK, 35 kHz)	5G NR FR1 TDD	5.93	±9.6
0912	AAB	5G NR (DFT & OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10913	AAB	SG NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	50 NR FR1 TDD	5.84	±9.6
0914	AAB	50 NR (DFT-e-DFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6
10915	AAB	5G NR (OFT-s-OFDM, 50% RB, 60 MHz, OPSK, 30 kHz)	5G NR FRI YOU	5.83	±9.6
0916	BAA	SG NR (DFT s-OFOM, 50% R8, 80 MHz, QPSK, 30 kHz)	5G NA FR1 TDD	5.87	±9.6
10917	AAB	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	#9.6
8190	AAC	50 NR (DFT-e-OFOM, 100% RB, 5MHz, QPSK, 30 kHz)	5G NR FRI TOO	5.86	±9.6
10919	AAB.	5G NR (DFT-a-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NA FRI TDD	5.86	±9.6
10920	AAB	5G NR (DFT:s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	5:87	±9.6
10921	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
0922	AAB	5G NR (DFT-6-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	5.82	±9.6
10923	AAB	5G NR (DFT4-QFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10924	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	6G NR FR1 TD0	5.84	±9.6
10925	AAB	SG NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	19.8
10926	AAB	5G NR (DFT+-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10927	AAB	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.52	±9.6
10929	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.52	19.6
10990	AAC	50 NR (DFTs-OFDM, 1 RB, 15MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.52	±9.6
10991	AAC	5G NR (DFTs-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
0932	AAC	SG NR (OFT-s-OFDM, 1 RB, 25MHz, QPSK, 15kHz)	50 NR FR1 FDD	5.51	±9.6
10933	AAC	5G NR (OFTs-OFOM, 1 RB, 30MHz, QPSK, 15kHz)	5G NR FRI FDD	5,51	19.6
10934	AAC	50 NR (DFT+-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FRI FDD	5,51	±9.6
10935	AAD	5G NR (DFTs-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	50 NR FRI FDO	5.51	±9.6
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5MHz, QPSK, 15 HHz)	SG NR FR1 FDD	5.90	±9.6
10937	AAG	5G NR (DFT-e-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FRI FDD	5.77	=9.6
0938	AAC	5G NR (DFT+-OFDM, 50% RB, 15MHz, QPSK, 15KHz)	5G NR FR1 FD0	5.90	±9.6
0939	AAC	SG NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
0940	AAC	SG NR (DFT+-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	19.6
10940	AAC	5G NR (DFT-6-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FOD	5.83	19.6
	1000000	The control of the co	LE-CONTROL - CONTROL - CON		-
10942	AAG	5G NR (DFTs-OFDM, 50% RB, 40 MHz, GPSK, 15 kHz)	5G NR FR1 FD0	5.85	±9.6
10943	AAD	SG NR (DFT+-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	SG NR FR1 FDD		±9.6
10944	AAG	50 NR (DFT & OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)		5.81	±9.6
10945	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NA FR1 FDD	5.85	±9.6
10945	AAC	5G NR (DFT-s-OFDM, 100% RB, 15MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.83	19.6
10947	AAG	5G NR (DFT-a-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10948	AAC	5G NR (DFT+-GFDM, 100% RB, 25 MHz, GPSK, 15 kHz)	5G NA FR1 FDD	8,94	±9.6
10949	AAC	6G NR (DFFs-OFDM, 100% RB, 30 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.87	19.6
10950	AAC	SG NR (DFT-6-OFDM, 100% RB, 40 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.94	#8.6
10951	CAA	5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5,92	±9.6
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	0.25	±9.6
10963	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	±9.6
10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.6
10955	AAA	5G NR UL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	±9.6
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NA FA1 FDD	8.14	±9.6
10.957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NA FR1 FDD	8.31	±9.6
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	SG NR FR1 FDD	8.61	±9.6
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 NHz)	5G NR FR1 FDD	8,33	±9.6
10960	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TD0	9.32	±9.6
10961	AAB	SG NR DL (CP-QFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	SG NR FR1 TDD	9.36	±9.6
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	±9.6
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TOO	9.55	±9.6
10964	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	±9.6
0.965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	±9.6
0.966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	50 NR FR1 TD0	9.55	±9.6
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TD0	9.42	19.6
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	6G NR FR1 TDO	9.49	±9.6
10972	AAB	50 NR (CP-0F0M, 1 RB, 20MHz, QPSK, 15 kHz)	50 NR FR1 TD0	11.59	±9.6
10973	AAB	5G NR (DFTs-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TD0	9.06	±9.6
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	±8.6
10976	AAA	ULLA BOR	ULLA	1.16	±9.0
10979	AAA	ULLA HDR4	ULLA	8.58	±9.6
10980	AAA	ULLA HDRB	ULLA	10.32	198
10981	AAA	ULLA HDRp4	ULLA	3.19	±8.6
	AAA	ULLA HDRp8	ULLA	3.43	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Uncil k = 2
10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TOD	9.31	±9.5
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, 84-QAM, 30 kHz)	SG 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, 84-QAM, 30 kHz)	SG NR FR1 TOD	9.33	±9.6
10.990	AAA	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 94-QAM, 30 kHz)	5G NR FR1 TDD	9.52	±9.6
11 003	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	10.24	±9.6
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	SG NR FR1 TDD	10.73	±9.6
11005	AAA	5G NR DL (CP-OFDM, TM 3.1, 25MHz, 84-QAM, 15kHz)	5G NR FR1 FDD	8.70	19.6
11006	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.55	±9.6
11007	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.46	±9.6
11008	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.51	±9.6
11009	AAA	5G NR DL (CP-OFDM, TM 3.1, 25MHz, 64-QAM, 30kHz)	59 NR FR1 FDD	8.76	±9.6
11010	AAA	5G NR DL (CP-DFDM, TM 3.1, 30 MHz; 64-QAM, 30 kHz)	5G NR FR1 FDD	8.95	±9.6
11011	AAA	5G NR DL (CP-OFOM, TM 3.1, 40 MHz, 54-QAM, 30 kHz)	5G NR FR1 FDD	8.96	±9.6
11012	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.68	±9.6
11013	AAA	IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
11014	AAA	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8.45	±9.6
11015	AAA	IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9:6
11016	AAA	IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)	WLAN	8.44	±9.6
11017	AAA	IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)	WLAN	8.41	±9.6
11018	AAA	IEEE 802.11be (320MHz, MCS6, 99pc duty cycle)	WLAN	8.40	±9.6
11019	AAA	IEEE 802.11be (320MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
11020	AAA	IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.27	±9.6
11021	AAA	IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)	WLAN	8.46	±9.6
11022	AAA	IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)	WLAN	8.36	±9,6
11023	AAA	IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)	WLAN	8.09	±9.6
11024	AAA	IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	±9.6
11025	AAA	IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)	WLAN	8.37	19.6
11026	AAA	IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	±9.6

If 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

Accredited by the Swiss Accreditation Service (SAS)





Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura

Swiss Calibration Service

Accreditation No.: SCS 0108

Client

HCT Gyeonggi-do, Republic of Korea

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

Certificate No.

ES-3076_Jul23

CALIBRATION CERTIFICATE

Object

ES3DV3 - SN:3076

Calibration procedure(s)

QA CAL-01.v10, QA CAL-12.v10, QA CAL-23.v6, QA CAL-25.v8

Calibration procedure for dosimetric E-field probes

Calibration date

July 18, 2023

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) ℃ and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
OCP DAK-3.5 (weighted)	SN: 1249	20-Oct-22 (OCP-DAK3.5-1249_Oct22)	Oct-23
OCP DAK-12	SN: 1016	20-Oct-22 (OCP-DAK12-1016_Oct22)	Oct-23
Reference 20 dB Attenuator	SN: CC2552 (20x)	30-Mar-23 (No. 217-03809)	Mar-24
DAE4	SN: 660	16-Mar-23 (No. DAE4-660_Mar23)	Mar-24
Reference Probe ES3DV2	SN: 3013	06-Jan-23 (No. ES3-3013_Jan23)	Jan-24

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Pawer meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-22)	In house check: Jun-24
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

Calibrated by

Jeffrey Katzman

Laboratory Technician

Approved by

Sven Kühn

Technical Manager

Issued: July 18, 2023

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

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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 S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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Multilateral Agreement for the recognition of calibration certificates

Glossary

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 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., θ = 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) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices – Part 1528; Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) 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 ∂ = 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 E²-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 ConvE
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. 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).

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July 18, 2023 ES3DV3 - SN:3076

Parameters of Probe: ES3DV3 - SN:3076

Basic Calibration Parameters

5/87/5-1	Sensor X	Sensor Y	Sensor Z	Unc $(k=2)$
Norm (μV/(V/m) ²) A	1.21	1.24	1.18	±10.1%
DCP (mV) B	106.0	105.0	104.0	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		dB	B dB√μV	С	D dB	VR mV	Max dev.	Max Unc ^E k = 2
0	CW		0.00	0.00	1.00	0.00	209.5	±3.0%	±4.7%
		Y	0.00	0.00	1.00		208.5		L. SALIEVAS
		Z	0.00	0.00	1.00		199.2		
10352	Pulse Waveform (200Hz, 10%)	X	12.55	85.70	23.45	10.00	60.0	±1.6%	±9.6%
	A 2000	Y	12.36	85.52	23.29		60.0		
		Z	14.22	87.77	23.67		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	20.00	94.07	24.61	6.99	80.0	±2.5%	±9.6%
		Y	20.00	94.11	24.55	810.20	80.0	. =317.001	
		Z	20.00	93.40	23.84		80.0		
10354	Pulse Waveform (200Hz, 40%)	X	20.00	95.82	23.46	3.98	95.0		±9.6%
	1,000,000,000,000,000,000,000,000,000,0	Y	20.00	96.10	23.57	51.00	95.0		
		2	20.00	94.83	22.58		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	20.00	99.55	23.57	2.22	120.0	±3.9%	±9.6%
		Y	20.00	100.53	24.06		120.0		
		Z	20.00	97.63	22.25		120.0		
10387	QPSK Waveform, 1 MHz	X	1.96	67.22	16.17	1.00	150.0	±2.5%	±9.6%
		Y	2.02	68.40	16.83		150.0		
		2	1.76	66.00	15.20		150.0		
10388	QPSK Waveform, 10 MHz	X	2.71	70.78	17.03	0.00	150.0	±1.0%	±9.6%
		Y	2.87	72.05	17.80	20000	150.0	T-800000	
		Z	2.37	68.73	15.94		150.0		
10396	64-QAM Waveform, 100 kHz	X	4.51	75.83	21.27	3.01	150.0	±0.6%	±9.6%
		Y	4.70	77.67	22.25		150.0		
		Z	3.75	72.58	19.73		150.0		
10399	64-QAM Waveform, 40 MHz	X	3.67	67.81	16.18	0.00	150.0	±1.8%	±9.6%
	PC - TOWN 60700 1000 1000 1000 1000 1000 1000 100	Y	3.74	68.30	16.53		150.0		
		Z	3.60	67.47	15.91		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	5.05	65.79	15.64	0.00	150.0	±3.8%	±9.6%
	amended a spanned and lessen (12)	Y	5.07	66.04	15.84	1	150.0	10000000	o de la constante de la consta
		Z	5.02	65.86	15.63		150.0		

Note: For details on UID parameters see Appendix

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%.

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A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 5).

⁸ Linearization parameter uncertainty for maximum specified field strength.
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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Parameters of Probe: ES3DV3 - SN:3076

Sensor Model Parameters

	C1 fF	C2 fF	и V-1	T1 msV ⁻²	T2 ms V ⁻¹	T3 ms	T4 V-2	T5 V-1	T6
X	69.3	493.88	35.07	29.81	3.34	5.10	0.66	0.66	1.01
у	63.3	451.09	35.12	29.79	3.18	5.10	1.05	0.51	1.01
Z	60.7	436.50	35.52	29.40	2.83	5.10	0.34	0.69	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	145.0°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

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July 18, 2023

Parameters of Probe: ES3DV3 - SN:3076

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
6	55.0	0.75	5,33	5.33	5.33	0.00	1.00	±13.3%
13	55.0	0.75	5.80	5.80	5.80	0.00	1.00	±13.3%
750	41.9	0.89	6.37	6.37	6.37	0.40	1.64	±12.0%
835	41.5	0.90	6.11	6.11	6.11	0.62	1.28	±12.0%
900	41.5	0.97	5.98	5.98	5.98	0.66	1.25	±12.0%
1450	40.5	1.20	5.53	5.53	5.53	0.34	1.71	±12.0%
1750	40.1	1,37	5.35	5.35	5.35	0.74	1.11	±12.0%
1900	40.0	1.40	5.05	5.05	5.05	0.80	1.13	±12.0%
2300	39.5	1.67	5.00	5.00	5.00	0.53	1.47	±12.0%
2450	39.2	1.80	4.81	4.81	4.81	0.73	1.31	±12.0%
2600	39.0	1.96	4.59	4.59	4.59	0.80	1.27	±12.0%

Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), also it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at cellbration 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. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

The probes are cellbrated using its save simulating liquids (TSL) that deviations from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10%. If TSL with deviations from the target of less than ±5% are used, the cellbration uncertainties are 11.1% for 3 - 6 GHz.

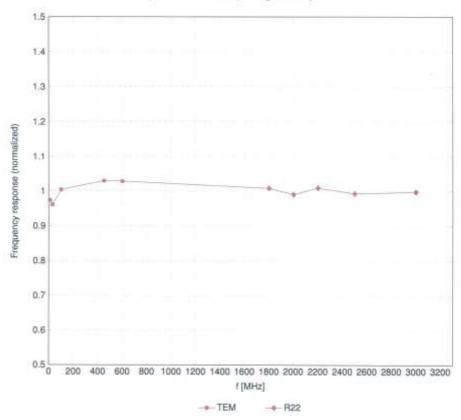
Q Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less. than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the



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Frequency Response of E-Field

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



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

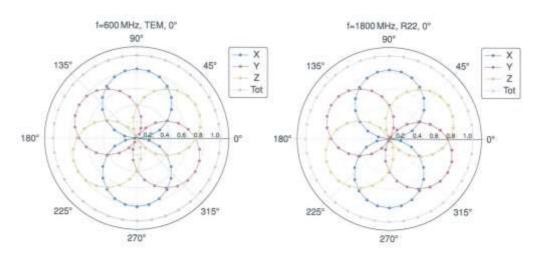
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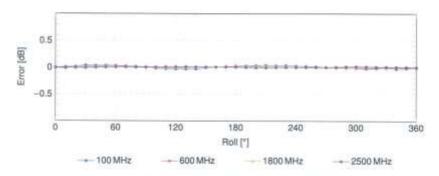
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Receiving Pattern (ϕ), $\theta = 0^{\circ}$





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

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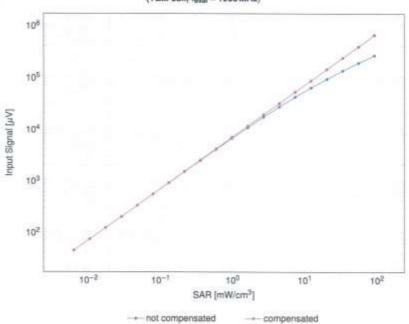


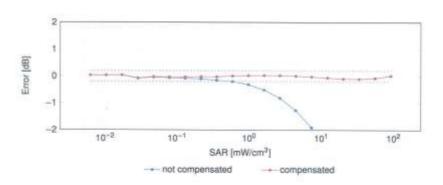
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Dynamic Range f(SAR_{head})

(TEM cell, f_{eval} = 1900 MHz)





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

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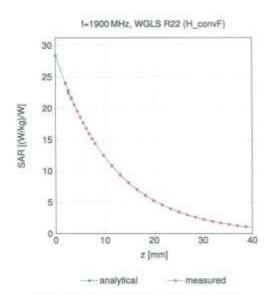
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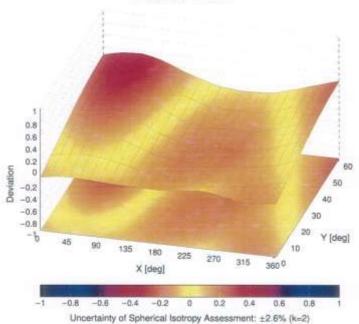
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Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ) , f = 900 MHz



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Appendix: Modulation Calibration Parameters

UID	Rev.	Communication System Name	Group	PAR (dB)	Unc ^E k = 3
0		CW	CW	0.00	±4.7
0010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
0.011	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
0012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.8
0013	CAB	IEEE 802.11g WiFi 2:4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
0021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
0023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
0.024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	9.56	±9.6
0.025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6
10026	DAC	EOGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6
0.027	DAC	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
0029	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
0032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.5
0033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6
0034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	±9.6
0035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6
0036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	19.6
0.037	CAA	IEEE 802.15.1 Bluetpoth (8-DPSK, DH3)	Bluetooth	4.77	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (8-OPSK, DH6)	Bluetooth	4.10	±9.6
10030	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±9.6
0042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	±9.6
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
0006	CAA	UMTS-TDD (TD-SCDMA, 1,28 Mcps)	TD-SCDMA	11.01	±9.6
0.058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	
10059	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mbos)	WLAN	2.12	±9.6
	CAB		WLAN		±9.6
10060	100000	IEEE 802.11b WIFi 2.4 GHz (DSSS, 5.5 Mbps)	11100000111	2.83	±9.6
10061	CAB	IEEE 802.116 WIF: 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	29.6
10062	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
10063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
10065	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
10066	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6
10067	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6
10068	CAD	IEEE 802.11a/n WIFI 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	19.6
10069	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6
10071	CAB	IEEE 802.11g WIF: 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	19.6
10072	CAB	IEEE 802.11g WIF: 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
10073	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6
10074	CAB	IEEE 802.11g WFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6
10075	CAB	IEEE 802.11g WIFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6
10076	CAB	IEEE 802.11g WIFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6
10077	CAB	IEEE 802.11g WIF) 2.4 GHz (DSSS/OFOM, 54 Mbps)	WLAN	11.00	±9.6
10081	CAB	CDMA2000 (1xRTT, RC3)	GDMA2000	3.97	±9.6
10082	CAB	IS-64 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4,77	±9.6
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	19.6
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	19.6
10098	CAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.6
0099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM.	9.55	±9.6
10100	CAF	LTE-FOD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
0101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FOD	6.60	±9.6
10103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TD0	9.29	29.6
10104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6
10105	CAH	LTE-TOD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6
10108	CAH	LTE-FOD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
10109	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10110	CAH		LTE-FDD	5.75	±9.6
10111	CAH		LTE-FDD	8.44	±9.6

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UID	Bev	Communication System Name	Group	PAR (dB)	Uno [®] k =
10112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6
0113	CAH	LTE-FDD (SC-FDMA, 100% RB, 5MHz, 64-QAM)	LTE-FDD	6.62	±9.6
0114	CAD	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
0115	CAD	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6
0116	CAD	IEEE 802,11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6
0117	CAD	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6
0118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 18-QAM)	WLAN	H.59	±9.6
0119	CAD	IEEE 802,11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6
0140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15MHz, 16-QAM)	LTE-F00	6.49	19.6
0141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	0.53	±9.6
0142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	19.6
0143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6
0144	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FOD	6,65	±9.6
0145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FD0	5.76	±9.6
0146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
0147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FOD	6.72	±9.6
0149	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
0150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FOD	6.60	±9.6
0151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6
0152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TOD	9.92	±9.6
0153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6
0154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6
0155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	19.6
0156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FOD	5.79	±9.6
0157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 18-QAM)	LTE-FDD	6.49	±9.6
0158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
0159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6
0160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
0161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
0162	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-F0D	6.58	±9.6
0166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4MHz, QPSK)	LTE-FD0	5.46	#9.6
0167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6
0168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	8.79	止9.6
0169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20MHz, QPSK)	LTE-FDD	5.73	±9.6
0170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
0171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	8.49	±9.6
0172	CAH	LTE-TD0 (SC-FDMA, 1 RB, 20MHz, QPSK)	LTE-TOD	9.21	±9.6
0173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20MHz, 16-QAM)	LTE-TOD	9.48	±9.6
0174	CAH	LTE-TDD (SC-FDMA, 1 RB, 29 MHz, 64-QAM)	LTE-TOD	10.25	±9.6
0175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	#9.6
0176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
0177	CAJ	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	±9.6
0178	CAH	LTE-FDD (SC-FDMA, 1 RB, 5MHz, 16-QAM)	LTE-FDD	6.52	±9.6
0179	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
0180	CAH	LTE-FDD (SC-FDMA, 1 RB, 5MHz, 64-QAM)	LTE-FDD	8.50	±9.6
0181	CAF	LTE-FOD (SC-FOMA, 1 RB, 16 MHz, QPSK)	LTE-FDD	5.72	±9.6
0.182	CAF	LTE-FOD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FOD	6.52	29.6
0183	AAE	LTE-FDD (SC-FDMA, 1 RB, 15MHz, 64-QAM)	LTE-FDD	6.50	±9.6
0184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3MHz, QPSK)	LTE-FDD	5.73	±9.6
0185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6
0186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3MHz, 64-QAM)	LTE-FDD	8.50	±9.6
0187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6
8810	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4MHz, 16-QAM)	LTE-FDD	6.52	29.6
0189	CAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
0193	CAD	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6
	CAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6
0195	to the street of the street of	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6
0196	CAD	IEEE 802 11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6
0197	CAD	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6
0198	CAD		WLAN	8.27	±9.6
0219	CAD	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6
0.220	CAD	The state of the s	WLAN	8.13	±9.6
0.221	CAD	IEEE 802 11n (HT Mixed, 72.2 Mbps, 64 QAM)	WLAN	8.27	±9.6
	CAD	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6
0222	CAD	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	±9.6

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10225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10226	CAC	LTE-TD0 (SC-F0MA, 1 RB, 1.4MHz, 16-QAM)	LTE-TOD	9,49	±9.6
0227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	19.6
0228	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6
0229	CAE	LTE-TDD (SC-FDMA, 1 RB. 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
0230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	19.6
0231	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6
0232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 16-QAM)	LTE-TDD	9.48	±9.6
0233	CAH	LTE-TDO (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	19.6
0234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	±9.6
0236	CAH	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
0236	CAH	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TOD	10.25	±9.6
0237	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	±9.6
0238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
0239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
0240	CAG	LTE-TDD (SC-FDMA, 1 RB, 15MHz, QPSK)	LTE-TDD	9.21	±9.6
0241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 18-QAM)	LTE-TDD	9.82	19.6
0242	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	19.6
0243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1,4MHz, QPSK)	LTE-TOO	9.46	±9.6
0244	CAE	LTE-TOD (SC-FDMA, 50% RB, 3MHz, 16-QAM)	LTE-TOO	10.06	±9.6
0245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDO		77.7.70
0246	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	The state of the s	10.06	19.6
0247	CAH	Fill the control designed the control to the control of the contro	LTE-TDD	9.30	±9.6
0248	CAH	LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)	LTE-TOO	9.91	±9.6
-		LTE-TOD (SC-FDMA, 50% RB, 5MHz, 64-QAM)	LTE-TOO	10.09	±9.8
0249	CAH	LTE-TDD (SC-FDMA, 50% RB, 5MHz, QPSK)	LTE-TDO	9.29	±9,6
0250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6
0251	CAH	Description of the Control of the Co	LTE-TD0	10.17	±9.6
0.252	CAH	and the state of t	LTE-TOD	9.24	±9.6
0253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9,6
0254	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6
0255	CAG	LTE-TDD (SC-FDMA, 50% RB, 15MHz, QPSK)	LTE-TOD	9.20	±9.6
0256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 15-QAM)	LTE-TDD	9.96	±9.6
0.257	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TOD	10.08	±9.6
0.258	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TOD	9.34	±9.6
0259	CAE	LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM)	LTE-TOO	9.98	±9,6
0260	CAE	LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM)	LTE-TOD	9.97	±9.6
0261	CAE	LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK)	LTE-TDD	9.24	±9.6
0262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)	LTE-TOD	9.83	±9.6
0263	CAH	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM)	LTE-TDD	10.16	±9.6
0.264	CAH	LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK)	LTE-TOD	9.23	±9.6
0265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10MHz, 16-QAM)	LTE-TDD	9.92	±9.5
0286	CAH	LTE-TDD (SC-FDMA, 100% RB, 10MHz, 64-QAM)	LTE-TOD	10.07	±9.6
0267	CAH	LTE-TDD (SC-FDMA, 100% RB, 10MHz, QPSK)	LTE-TDD	9.30	±9.6
0268	CAG	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 16-QAM)	LTE-TDD	10.06	±9.6
0269	CAG	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)	LTE-TDO	10.13	±9.6
0270	CAG	LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK)	LTE-TDD	9.58	±9.6
0274	CAC	LMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	±9.6
0275	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.5
0277	CAA	PHS (QPSK)	PHS	11.81	±9.6
0.278	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11,81	±9.6
0279	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	±9.5
0290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	±9.5
0.291	BAA	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	19.6
0585	AAB	CDMA2000, RC3, SG32, Full Rate	CDMA2000	3.39	±9.6
0293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
0295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6
0297	AAE	LTE-FDD (SC-FDMA, 50% RB, 20MHz, QPSK)		-	1110VQ
0298	AAE	LTE-FDD (SC-FDMA, 50% RB, 3MHz, QPSK)	LTE-FOO	5.81	±9.8
0299	AAE	LTE-FDD (SC-FDMA, 50% RB, 3MHz, 18-QAM)	LTE-FDD	5.72	±9.8
0300	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)		6.39	±9.6
	10000		LTE-FD0	6.60	±9.6
0301	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10 MHz, QPSK, PUSC)	WMAX	12.03	±9.6
0302	AAA	IEEE 802:15e WIMAX (29:18, 5ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WIMAX	12.57	±9.6
0303	AAA	IEEE 802.16e WIMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)	WMAX	12.52	19.6
0304	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC)	WMAX	11.86	±9.6
0305	AAA	IEEE 802.16e WIMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)	WIMAX	15.24	±9.6
0306	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)	WIMAX	14.67	±9.6

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10307	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WMAX	14,49	±9.6
0308	AAA.	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WMAX	14.46	±9.5
0309	AAA	IEEE 802.18e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	XAMW	14.58	±9.6
10310	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	WMAX	14.57	±9.6
10311	AAE	LTE-FDD (SC-FDMA, 100% RB. 15 MHz, QPSK)	LTE-FOD	6.06	±9.6
10313	AAA	IDEN 1:3	IDEN	10.51	±9.6
10314	AAA	IDEN 1:5	IDEN	13.48	±9.6
10315	AAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6
10:316	AAB	IEEE 802 11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10317	AAD	IEEE 802.11a WIFI 5 GHz (OFDM, 6 Mbps, 95pc duty cycle)	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%) Pulse Waveform (200Hz, 60%)	Generic	3.98	±9.6
10356	AAA	Pulse Waveform (200Hz, 60%) Pulse Waveform (200Hz, 80%)	THE RESERVE OF THE PARTY OF THE	2.22	±9.6
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	19.6
10388	AAA	QPSK Wavelorm, 10 MHz	Generic	-	±9.6
10386	AAA	54-QAM Waveform, 100 kHz	Generic	5.22	±9.6
10399	AAA	64-QAM Wavelorm, 100 kHz	Generic	6.27	±9.6
Andrew Ministra	-		Generic	- Anning the	±9.6
10400	AAE	IEEE 802.11ac WiFl (20 MHz, 64-QAM, 99pc duty cycle) IEEE 802.11ac WiFl (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	±9.6
10401	AAE	IEEE 802,11ac WiFI (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	17777	_
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	8.53	±9.6
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.76	19.6
10404	AAB	CDMA2000 (TXEV-DO, HeV. A) CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	19.6
10400	AAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe~2,3,4,7,8,9, Subframe Cont=4)	LTE-TDD	7.82	19.6
10414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	19.6 19.8
10415	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 96pc duly cycle)	WLAN	1.54	±9.6
10416	AAA	IEEE 802.11g WIFI 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10417	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 5 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10418	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.14	±9.6
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99oc duty cycle, Short preambule)	WLAN	8.19	19.6
10422	AAC	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	±9.fi
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	AAE	LTE-FDD (OFDMA, 5MHz, E-TM 3.1)	LTE-FDD	8.28	19.6
10431	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FOD	8.38	±9.6
10432	AAD	LTE-FDD (OFDMA, 15MHz, E-TM 3.1)	LTE-FOD	8.34	±9.6
10433	AAE	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10434	AAB	W-CDMA (BS Test Model 1, 84 DPCH)	WCDMA	8.60	±9.6
10435	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10447	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6
10448	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	±9.6
10449	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	±9.6
10450	AAD	LTE-FDD (OFDMA, 28 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9.6
10451	AAB	W-CDMA (BS Test Model 1, 84 DPCH, Clipping 44%)	WCDMA	7.59	±9.8
10453	AAE	Validation (Square, 10 ms, 1 ms)	Test	10.00	±9.6
10456	AAC	IEEE 802.11ac WIFI (160 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	±9.6
10457	BAA	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	±9.5
10458	AAA,	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6
10:459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	±9.6
10460	AAB	UMTS-FDD (WCDMA, AMR)	WCDMA.	2.39	±9.6
10461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2.3.4.7,8.9)	LTE-TOD	7.82	±9.6
10462	AAC	LTE-TDD (SC-FDMA, 1 R8, 1.4MHz, 16-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TOD	8.30	±9.6
10463	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.56	±9.6
10464	AAD	LTE-TDD (SC-FDMA, 1 R8, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.82	±9.6
10465	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.32	±9.6
10.486	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.57	±9.6
10-467	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOO	7.82	±9.6
10468	AAG	LTE-TDD (SC-FDMA, 1 R8, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.32	±9.6
10469	AAG	LTE-T00 (SC-F0MA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.56	±9.6
10470	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.82	±9.6
	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDO	8.32	19.6

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10472	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subtrame=2.3.4,7.8.9)	LTE-TDD	8.57	±9.6
10473	AAF	LTE-TDO (SC-FDMA, 1 RB, 16MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10474	AAF	LTE-TDD (SC-FDMA, 1 R8, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8,32	±9.6
10475	AAF	LTE-TDD (SC-FDMA, 1 R8, 15MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.57	±9.6
10477	AAG	LTE-TDD (SC-FDMA, 1 R8, 20 MHz, 16-QAM, UL Subtrame=2.3.4.7.8.9)	LYE-TOD	8.32	±9.6
10478	AAG	LTE-TOO (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10480	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 15-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.18	±9.6
10481	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 84-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8,45	±9.6
10482	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.71	±9.6
10483	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 15 QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.39	±9.6
10484	AAD	LTE-TDD (SC-FDMA, 50% RB, 3MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	±9.6
10486	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.59	±9.6
		LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, Ut. Subframe=2,3;4,7;8,9)	LTE-TDD	8.38	±9.6
10487	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 84-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.60	±9.6
10488	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.70	±9.6
10489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.31	±9.6
10490	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.74	±9.6
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.41	±9.6
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TOD	8.55	±9.6
10494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10495	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TOD	8.37	±9,6
10496	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 84-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOO	8.54	±9.6
10497	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subtrame=2,3,4,7,8,9)	LTE-TOD	7.67	±9.6
10498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	±9.6
10.500	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.68	±9.6
allert de l'instance l'	AAD	LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10501	A CONTRACTOR OF THE PARTY OF TH	LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TD0	8.44	±9.6
10502	AAG	LTE-TDD (SC-FDMA, 100% RS, 3MHz, 64-QAM, UL Subkame=2,3,4,7,8,9)	LTE-TOD	8.52	±9.6
10504	AAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	±9.6
10505	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 15-QAM, UL Subframe=2.3.4,7,8,9)	LTE-TDD	8.31	±9.6
10506	AAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM, UL Subhame=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10507	AAG	LTE-TOD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subtrame=2,3,4,7,8,9) LTE-TOD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	7.74	19.6
10508	AAG	LTE-TOD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)	LTE-TDO	8.36	±9.6
10509	AAF	LTE-TOD (SC-FDMA, 100% RB, 15 MHz, QPSK, UI, Subtrame=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	±9.6
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	±9.6
10512	AAG	LTE-TOD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	±9.6
10513	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 18-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.74	±9.6
10514	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	±9.6
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2Mbps, 99pc duty cycle)	LTE-TOD	8.45	#9.6
10516	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
0517	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1.5 Mbps, 89pc duty cycle)	WLAN	1,57	±9.6
0518	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10519	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
0520	AAC	IEEE 802.11a/b WIFI 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.39	±9,6
0521	AAC	IEEE 802.11a/h-WiFi 5 GHz (OFDM, 16 Mbps, 99pc duty cycle)	WLAN	8.12	±9.5
0522	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	7.97	19.6
0523	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 48 Mops, 99pc duty cycle)	WLAN	8.45	19.6
0524	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 16 Wops, 99pc duty cycle)	WLAN	8.08	±9.6
0525	AAC	IEEE 802.11ac WIFI (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.27	19.6
0526	AAC	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.36	±9.6
0527	AAC	IEEE 802.11ac WIFI (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.42	±9.6
0528	AAC	IEEE 802.11ac WIFI (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.21	±9.6
0529	AAC	IEEE 802.11ac WIFI (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.36	19.6
0531	AAC	IEEE 802.11ac WIFI (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.36	19.6
0532	AAC	IEEE 802.11ac WIFI (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.43	#9.6
0533	AAC	IEEE 802.11ac WiFI (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
0534	AAC	IEEE 802.11ac WiFI (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.38	±9.6
0535	AAC	IEEE 802.11ac WIFI (40 MHz, MCSU, 99pc duty dycle)	WLAN	8.45	±9.6
0536	AAC	IEEE 802.11ac WIFI (40 MHz, MCS1, 99pc duty dyde)	WLAN	8.45	±9.6
0537	AAC	IEEE 802.11ac WIFI (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.32	±9.6
0538	AAC	IEEE 802.11ac WIFI (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.44	±9.6
0.540	AAC	IEEE 802.11ac WIFI (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.54	±9.6
	MAKE	IEEE dux. 1 (40 MHz, MCS8, 99pc dufy cycle)	WEAN	8.39	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc* k =
10:541	AAC	IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.46	±9.6
0542	AAC	IEEE 802.11ac WIFI (40 MHz, MCS8, 99pc duty cycle)	WLAN	8,65	±9.6
0543	AAC	IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±9.6
0544	AAC	IEEE 802.11sc WIFI (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.6
0545	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9,6
0546	AAC	IEEE 802.11ac WIFI (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.0
0547	AAC	IEEE 802.11ac WIFI (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	29.6
0548	AAC	IEEE 802.11ac WIFI (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±9.6
0550	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.38	±9.6
0551	AAC	IEEE 802.11ac WIFI (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.50	±9.6
0552	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.42	±9.6
0553	AAC	IEEE 802,11ac WiFi (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.45	±9.6
0554	AAD	IEEE 802.11ac WIFI (160 MHz; MCS0, 99pc duty cycle)	WLAN	8.48	±9.6
0555	CIAA	IEEE 802.11ac WIFI (180 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.5
0556	CAA	IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±8.6
0557	CAA	IEEE 802.11ac WIFI (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.52	19.6
0.558	AAD	IEEE 802.11ac WIFI (180 MHz; MCS4, 99pc duty cycle)	WLAN	8.61	±9.6
0560	AAD	IEEE 802.11ac WIFI (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.73	±9.6
0561	AAD	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.56	±9.8
0.582	AAD	IEEE 802.11ac W/Fi (180 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	±9.6
0563	AAD	IEEE 802,11ac WFI (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.5
0564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
0565	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
0566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN .	8,13	±9.6
0567	and the later of the later of	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	±9.6
0568	AAA	EEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	1140.00	8.37	±9.6
0569	AAA	IEEE 802.11g WiFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	±9.6
0570	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
0.571	0.00001000	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 80pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
0572	AAA		WLAN	1.99	±9.fi
0573	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
0575	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 8 Mbps, 90pc duty cycle)	WLAN	1.98	±9,6
0576	AAA		WLAN	8.59	±9.6
0576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
0578	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Maps, 90pc duty cycle)	WLAN	8.70	±9.6
0579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 16 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
0580	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 26 Mbps, 90pc duty cycle)	WLAN	8.76	29.6
0581	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
0582	AAA	IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	150000	±9.6
0583	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6 ±9.0
0584	AAC	IEEE 802.11a/h WFI 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	-
0585	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
0586	AAC	IEEE 802.11a/h WiFI 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
0587	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
0.588	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN		
0589	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
0590	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 46 Mbps, 90pc duty cycle)	WLAN	8.67	
0591	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.5
0592	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
0.593	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.6
0594	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
0595	AAC	IEEE 802,11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6
0.596	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCSS, 90pc duty cycle)	WLAN	8.71	±9.6
0597	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)	WLAN	8.72	19.5
0598	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9.6
599	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6
0.600	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	19.6
0601	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.82	19.6
0602	AAC	EEE 802,11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.94	19.6
0.603	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS4; 90pc duty cycle)	WLAN	9.03	19.6
0604	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 80pc duty cycle)	WLAN	8.76	19.5
0605	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle)	WLAN	8.97	19.6
0.606	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	19.6
0607	AAC	IEEE 802.11ac WIFI (20 MHz, MCS0, 90pc duty cycle)	WLAN	8.64	19.6
0608	AAC	IEEE 802.11ac WIFI (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.77	±9.5

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10609	AAC	IEEE 802.11ac WIFI (20 MHz, MC52, 90pc duty cycle)	WLAN	8.57	±9.6
10610	AAC	IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	#9.6
10611	AAC	IEEE 802.11ac WIFI (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10612	AAC	IEEE 802.11ac WiFi (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10613	AAC	IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9.6
10614	AAC	IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.59	19.6
10615	AAC	IEEE 802.11ac WIFI (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10616	AAC	IEEE 802.11ac WIFI (40 MHz, MCS0, 90pc duty cycle)	WLAN	8,82	±9.6
10617	AAC	IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
10618	AAC	IEEE 802.11ac WIFI (40 MHz, MCS2, 90pc duty cycle) IEEE 802.11ac WIFI (40 MHz, MCS3, 90pc duty cycle)	WLAN	8,58	±9.6
10620	AAC	IEEE 802.11ac WIFI (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.86	19.6
10621	AAC	IEEE 802.11ac WIFI (40 MHz, MC85, 90pc duty cycle)	WLAN	8.77	±9.6
10622	AAC	IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.68	19.6
10623	AAC	IEEE 802.11ac WIFI (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	19.6
10624	AAC	IEEE 802.11ac WIFT (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.96	19.6
10625	AAC	IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.96	19.6
10626	AAC	IEEE 802.11ac WIFI (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10627	AAC	IEEE 802.11ac WIFI (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	19.6
10628	AAC	IEEE 802.11ac WIFI (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.71	19.6
10629	AAC	IEEE 802.11ac WFI (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	19.6
10630	AAC	IEEE 802.11ac WIFI (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6
10631	AAC	IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.81	19.6
0632	AAC	IEEE 802.11ac WIFI (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10633	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	£9.6
10634	AAC	IEEE 802.11ac WIFI (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.6
10635	AAC	IEEE 802.11ac WIFI (80 MHz, MCSB, B0pc duty cycle)	WLAN	8.81	19.6
0636	AAD	IEEE 802.11ac WIFI (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	19.5
10637	AAD	IEEE 802,11ac WIFI (160 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.8
0638	AAD	IEEE 802.11ac W/FI (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.6
10639	AAD	IEEE 802.11ac WIFI (160 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
18840	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.98	£9.6
10641	AAD	IEEE 802.11ac WIFI (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10642	AAD	IEEE 802.11ac WIFI (160 MHz, MCS6, 90pc duty cycle)	WLAN	9:06	±9.6
10643	AAD	IEEE 802.11ac WIFI (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	19.6
10844	AAD	IEEE 802.11ac WIFI (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6
10645	AAD	IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK, UL Subframe=2,7)	LTE-TOO	11.96	±9.5
10647	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TOO	11.96	±9.6
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAF	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	6.91	±9.6
10653	AAF	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	±9.6
10654	AAE	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	6.96	±9.6
10655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDO	7.21	19.6
10658	AAB	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6
10659	AAB	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.5
10660	AAB	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6
0661	AAB	Pulse Waveform (200Hz, 66%)	Test	2.22	±9.6
0662	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6
0670	AAA	Bluetooth Law Energy	Bluetooth	2.19	±9.6
0671	AAC	IEEE 802.11ax (20 MHz, MGS0, 90pc duty cycle)	WLAN	9.09	±9.6
0672	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	±9.6
0673	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.6
0674	AAC	IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	19.6
0675	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6
0676	AAC	IEEE 802.11ax (20 MHz, MCSS, 90pc duty cycle)	WLAN	8.77	±9.6
0677	AAC	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.73	19.6
0678	AAC	IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8,78	±9.6
0679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
0680	AAC	IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
0681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	19.6
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.83	±9.6
	100000	IEEE 802.11ax (20 MHz, MCS0, 98pc duty cycle) IEEE 802.11ax (20 MHz, MCS1, 98pc duty cycle)	WLAN	8.42	±9.6
10684	AAC	IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.26 8.33	±9.6

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UID	Rev	Communication System Name	Graup	PAR (dB)	Unc ^E k =
10687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6
0688	AAC	IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6
0689	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.55	±9.6
0690	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
0691	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6
0692	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	19.6
0683	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6
0694	AAC	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLAN	8.57	±9.6
0695	AAC	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.78	19.6
0686	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6
0697	AAC	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.61	±9.6
0698	AAC	IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.89	±9.6
0489	AAC	IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.82	±9.6
0700	AAC	IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.73	±9.6
0701	AAC	IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.86	±9.6
0702	AAC	IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN :	8.70	±9.6
0.703	AAC	IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
0704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6
0705	AAC	IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle)	WLAN	8.69	±9.6
0706	AAC	IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±9.6
0707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.32	±9.6
0708	AAC	IEEE 802,11ax (40 MHz, MCS1, 99pc duty cycle)	WLAN	9.55	±9.6
0709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8:33	±9.6
0710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8:29	±9.5
0711	AAC	IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±9.6
0712	AAC	IEEE 802.11ax (40 MHz, MCSS, 99pc duty cycle)	WLAN .	8.67	19.6
0713	AAC	IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.33	±9.6
0714	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.26	±9.6
0715	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.45	±9.6
0716	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.30	±9.6
0717	AAC	IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle)	WLAN	8.48	19.6
0718	AAC	IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.24	±9.6
0719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)	WI,AN	8.81	±9.6
0720	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.87	±9.6
	AAC		WLAN	8,76	±9.6
0722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN.	8.55	±9.6
0724	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle) IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WI,AN	8.70	±9.6
0725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.90	±9.6
0726	AAC	IEEE 802.11ax (80 MHz, MGS7, 90pc duty cycle)	WLAN	8.74	±9.6
0727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.72	±9.6
0728	AAC	IEEE 802.11ax (80 MHz, MCSB, 90pc duty cycle)	WLAN	8.66	±9.6
0729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN WLAN	8.65	±9.6
0730	AAC	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.64	±9.6
0731	AAC	IEEE 802.11ax (80 MHz, MCS0, B9pc duty cycle)	WLAN	8.67	±9.6
0732	AAC	IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)	The second secon	8.42	±9.6
0733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.46	19.6
0734	AAC	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN		±9.6
0735	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.25	±9.6
0736	AAC	IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.33 8.27	±9.6
0737	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.27	±9.6
0738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6
0739	AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.29	±9.6
0740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6
0741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	±9.6
0742	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	8.43	
743	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	±9.6
0744	AAC	IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	9.16	±9.6
0745	AAC	IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.93	
0746	AAC	IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN	9.11	±9.6
0747	AAC	IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN	9.04	±9.6
0748	AAC	IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle)	WLAN	8.93	±9.6
0749	AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN		±9.6
0.750	AAC	IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.90 8.70	19.6
0751	AAG	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.79	±9.6
	100 CM	IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)	TILAN	8.82	±9.6

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10753	AAC	IEEE 802.11sx (160 MHz, MCS10, 80pc duty cycle)	WLAN	9.00	±9.6
10754	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN	8.94	±9.8
10755	AAC	IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.64	±9.6
10756	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6
10757	AAC	IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.77	±9.6
10758	AAC	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.69	±9.6
10759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±9.6
10760	AAC	IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN	8.49	±9.6
10761	AAC	IEEE 802.11ex (160 MHz, MCS6, 99pc duty cycle)	WLAN	5.58	±9.6
10762	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	B.49	±9.6
10763	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	R.53	±9.6
10764	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)	Wt,AN	8.54	±9.6
10765	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	W,AN	8.54	±9.6
10.766	AAC	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.51	±9.6
10767	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9.6
10768	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NA FA1 TDO	B.01	±9.6
10769	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10.770	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDO	8.02	±9.6
10771	DAA	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	53 NR FR1 TDD	8.02	±9.6
10772	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.23	±9.6
10773	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDO	8.03	±9.6
10774	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	19.6
10775	AAD	5G NR (CP-OFOM, 50% RB, 5MHz, QPSK, 15kHz)	SG NA FR1 TDD	8.31	±9.6
10777	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
and the second	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	50 NR FR1 TDD	8.30	29.6
10778	AAC	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.6
10780	AAD	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	BG NR FR1 TDD	8.42	±9.6
10781	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10782	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10783	AAE	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TOD	8.43	±9.6
10784	AAD	5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.31	±9.6
10785	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	±9.6
10788	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TOD	8.40	±9.6
10787	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, OPSK, 15 kHz) 5G NR (CP-OFDM, 100% RB, 25 MHz, OPSK, 15 kHz)	50 NR FR1 TD0	8.35	±9.6
10788	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	±9.6
10789	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10790	AAD	5G NR (CP-OFOM, 100% RB, 80 MHz, QPSK, 15 kHz)	5G NR FR1 TOD	8.37	±9.6
10791	AAE	5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 30MHz)	50 NR FR1 TDD	8.39	±9.6
10792	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	±9.6
10793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6
10794	AAD	5G NR (CP-OFOM, 1 RB, 15 MHz, GPSK, 30 kHz)	50 NR FR1 TDD	7.95	±9.6
10795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	7.82	±9.6
10796	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±9.6
10797	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, CPSK, 30 KHz)	5G NR FR1 TDD	7.82	±9.6
10798	AAD	5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 30kHz)	5G NR FR1 TDD	8.01	±9.6
10799	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10801	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10802	AAD	53 NR (CP-OFDM, 1 RB, 90MHz, QPSK, 30kHz)	5G NR FR1 TDD	7.89	±9.6
10803	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
10805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FRI TOD	7.93	19.6
10806	CAA	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	19.6
10810	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 KHz)	5G NR FR1 TDD	8.34	±9.6
10812	AAD	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	50 NR FR1 TDD	8.34	±9.6
10817	AAE	5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 30kHz)	SG NR FR1 TDD	8.35	±9.6
10818	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	8.35	±9.6
10819	AAD	5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 30kHz)	5G NR FR1 TD0	8.34	±9.6
10820	AAD	5G NR (CP-OFDM, 100% RB, 28 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	±9.6
10821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8,30	±9.6
10822	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10823	AAD	SQ NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	8.41	±9.6
10824	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	8.36	±9.5
10825	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	±9.6
10827	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDO	8.41	±9.6
10828	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	19.6
124 144 150	1000	00 (01 (01 (01 (01 (01 (01 (01 (01 (01 (5G NR FR1 TDD	8.43	±9.6

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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, 10MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	±9.6
10831	AAD	5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 60 kHz)	SG NR FR1 TDD	7.73	±9.6
10832	AAD	5G NR (CP-OFDM, 1 RB, 20MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	±9.6
10833	AAD	5G NR (CP-OFDM, 1 RB, 25MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
-	AAD	5G NR (CP-OFDM, 1 RB, 30MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	±9.6
10835	AAD	SG NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 50 kHz)	5G NR FR1 TDD	7.70	±9.6
0838	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	SG NR FR1 TDD	7.68	±9.6
10837	AAD	5G NR (CP-OFDM, 1 R8, 60 MHz, QPSK, 60 WHz)	5G NR FR1 TDD	7.68	±9.6
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 50 kHz)	5G NR FR1 TDD	7.70	±9.6
0841	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	SG NR FR1 TDD	7.67	±9.6
0843	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	±9.6
10844	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	8.49	±9.6
0845	AAD	SG NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 KHz)	5G NR FR1 TDD	8.34	±9.6
0854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8,41	±9.6
0855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
0856	AAD	SG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	6.36	±9.6
10857	AAD	5G NR (CP-OFDM, 100% RB, 25MHz, QPSK, 60kHz)	50 NR FR1 TDD	8.37	±9.6
0858	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 KHz)	5G NR FR1 TDD	8.35	±9.6
0859	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FRI TOD	8.36	±9.6
0880	AAD	5G NR (CP-GFDM, 100% RB, 40 MHz, GPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
0881	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 KHz)	5G NR FR1 TDD	8.41	±9.6
0.863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TOD	8.40	±9.6
0884	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
0885	AAD	5G NR (CP-OFDM, 100% RB, 100MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
0886	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41 5.68	±9.6
0868	AAD	5G NR (DFT+-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		#9.6
0889	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.89	±9.6
0870	AAE	SG NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD		±9.6
0871	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.86	±9.6
0872	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.52	±9.6
0873	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDO	6.61	±9.6 ±9.6
10874	AAE	5G NR (DFT-s-OFDM, 100%-RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDO	6.65	-
0875	AAE	5G NR (CP-QFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	SG NR FR2 TDO	7.78	±9.6
0876	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TD0	8.39	±9.6
0877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TD0	7.95	117500
0878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDO	B.41	±9.6
0879	AAE	5G NR (CP-OFOM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDO	8.12	±9.6
0880	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	19.6
0881	AAE	5G NR (DFT-a-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDO	5.75	19.6
0882	AAE	5G NR (DFT-s-OFOM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.98	±9.6
0883	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6
0884	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	±9.6
0885	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	5.61	±9.6
0886	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
0887	AAE	5G NR (CP-OFDM, 1 R8, 50MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
0888	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	±9.6
0889	AAE	5G NR (CP-0FDM, 1 RB, 50MHz, 16QAM, 120kHz)	5G NR FR2 TDD	8.02	±9.6
0890	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	50 NR FR2 TDD	8.40	±9.6
0891	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	±9.6
0892	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
0897	AAC	5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 30 kHz)	50 NR FR1 TDD	5.66	±9.6
0898	AAB	5G NR (DFTs-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
0899	AAB	5G NR (DFT-a-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
0900	AAB	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	19.6
0901	BAA	SG NR (DFTs-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	19.6
0902	AAB	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.88	19.6
0903	AAB	5G NR (DFT-e-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0904	AAB	5G NR (DFTs-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	19.6
0905	AAB	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0906	AAB	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0907	AAC	5G NR (DFFs-OFDM, 50% RB, 5MHz, QPSK, 30kHz)	50 NR FR1 TDD	5.78	19.6
0908	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	19.6
0909	AAB	5G NR (DFT's OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FRI TDD	5.98	±9.6
			AMAZER COMP.	10-20	20.00

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UID	Rev	Communication System Name	Group	PAR (dB)	Unct k = 2
10911	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	5.93	±9.6
10912	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	5.84	±9.6
10913	AAE	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.5
10914	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6
10915	AAB	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6
10918	AAB	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10917	AAB	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9,6
10918	AAC	5G NR (DFT-a-DFDM, 100% RB, 5MHz, QPSK, 30kHz)	5G NR FR1 TDD	5.86	±9.6
10919	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.88	±9.6
10920	AAB	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10921	AAB	5G NR (DFT-a-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9,6
10922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	±9.6
10923	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10924	AAB	5G NR (DFT-a-DFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	5.84	±9.6
10925	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,95	±9.6
10926	AAB	5G NR (DFTs-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	£9.6
10927	AAB	5G NR (DFT-s-DFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.52	±9.6
10929	AAC	5G NR (DFT-s-OFDM, 1 R8, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.52	±9.6
10931	AAC	5G NR (DFT-s-OFDM, 1 R8, 20MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.51	±9.6
10932	AAG	5G NR (DFT-s-OFDM, 1 RB, 25MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	29.6
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10935	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10936	AAG	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10937	AAC	5G NR (DFT-e-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	±9.6
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10939	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
10940	AAC	5G NR (DFT-a-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	19.6
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10943	AAD	5G NR (DFT-s-DFDM, 50% RB, 50 MHz; QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10944	AAC	56 NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 MHz)	5G NR FR1 FDD	5.81	±9.6
10945	AAC	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
10948	AAC	5G NR (DFT-s-OFDM, 100% R8, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5,87	±9.6
10949	AAC	5G NR (DFTs-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) 5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10950	AAC	SG NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD 5G NR FR1 FDD	5.87	29.6
10951	AAD	5G NR (DFT-e-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10962	AAA	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)	SG NR FRI FDD	The second section is	±9.6
10963	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	±9.6
10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz)	SG NR FR1 FDD	8.15	±9.6
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	The second second second second	±9.6
10966	AAA	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)	SG NR FR1 FDD	8.42	±9.6
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6 ±9.6
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	-
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	±9.6
10960	AAC	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)	5G NR FRI TOD	9.32	±9.6
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	±9.6
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15MHz)	5G NR FR1 TDD	9.40	±9.6
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	±9.6
10964	AAC	SG NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30HHz)	SG NR FRI TOD	9.00	
10985	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	SG NR FRI TOD	9.29	±9.6
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	±9.6
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TOD	9.50	±9.6
10988	AAB		SG NR FR1 TDD	9.49	±9.6
10972	AAB	5G NR (CP-OFDM, 1 RB, 20MHz, QPSK, 15kHz)	5G NR FR1 TDD	11.59	±9.6
10973	AAB	5G NR (DFT-4-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	±9.6
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	±9.6
10978	AAA	ULLA BDR	ULLA	1.16	±9.5
10979	AAA	ULLA HDR4	ULLA		
10980	AAA	ULLA HDR8	ULLA	8.58	±9.6
10981	AAA	ULLA HDRp4	ULLA	3.19	19.6
	10.00	ULLA HDRp8	ULLA	at-136	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10.983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TD0	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, 38 kHz)	5G NR FR1 TDD	9.54	19.6
10986	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDO	9.50	±9.6
10987	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TD0	9.53	±9.8
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	±9.5
10990	AAA	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	±9.6
11003	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15kHz)	5G NR FR1 TOD	10.24	19.6
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 TOD	10.73	±9.6
11005	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.70	19.6
11006	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	50 NR FR1 FDD	8.55	±9.6
11007	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15kHz)	5G NR FR1 FDD	8.46	±9,6
11008	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15kHz)	5G NR FR1 FDD	8.51	±9.6
11009	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz)	50 NR FR1 FDD	8.76	±9.6
11-010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.95	±9.6
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.96	±9.6
11012	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.68	±9.6
11013	AAA	IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
11014	AAA	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8.45	±9.6
11015	AAA	IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
11.016	AAA	IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)	WLAN	8.44	±9.6
11017	AAA	IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)	WLAN	8,41	±9.6
11018	AAA	IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle)	WLAN	8.40	±9.6
11019	AAA	IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
11020	AAA	IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.27	±9.6
11021	AAA	IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)	WLAN	8.46	±9.6
11022	AAA	IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)	WLAN	8.36	±9.6
11023	AAA	IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)	WLAN.	8.09	19.6
11024	AAA	IEEE 802.11be (329 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	19.6
11025	AAA	IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)	WEAN	8.37	±9.6
11028	AAA	IEEE 902.11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	19.6

^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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Appendix G. – Dipole Calibration Data

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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

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 HCT

Certificate No. D750V3-1014_May23

	D750V3 - SN:10	14	
Calibration procedure(s)	OA CAL-05.v12 Calibration Proce	edure for SAR Validation Sources	between 0.7-3 GHz
Calibration date:	May 23, 2023		
The measurements and the uncer	tainties with confidence parties and in the closed laborator	onal standards, which realize the physical uni- robability are given on the following pages an ry facility: environment temperature (22 \pm 3)°C	d are part of the certificate.
Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-93604)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 7349	10-Jan-23 (No. EX3-7349_Jan23)	Jan-24
	SN: 601	19-Dec-22 (No. DAE4-601_Dec22)	Dec-23
DAE4			
DAE4 Secondary Standards	ID#	Check Date (in house)	Scheduled Check
	#1000000000000000000000000000000000000	Check Date (in house) 30-Oct-14 (in house check Oct-22)	Scheduled Check In house check: Oct-24
Secondary Standards Power mater E44198 Power sensor HP 8481A	ID#	The state of the s	
Secondary Standards Power meter 644198 Power sensor HP 8481A Power sensor HP 8481A	ID# SN: GB39512475 SN: US37292783 SN: MY41093315	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Secondary Standards Power mater E44198 Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06	ID # SN: GB39512475 SN: US37292783 SN: MY41093315 SN: 100972	30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 15-Jun-15 (in house check Oct-22)	In house check: Oct-24 In house check: Oct-24
Secondary Standards Power meter 644198 Power sensor HP 8481A Power sensor HP 8481A	ID # SN: GB39512475 SN: US37292783 SN: MY41093315 SN: 100972	30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 07-Oct-15 (in house check Oct-22)	In house check: Oct-24 In house check: Oct-24 In house check: Oct-24
Secondary Standards Power mater E44198 Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06	ID # SN: GB39512475 SN: US37292783 SN: MY41093315 SN: 100972	30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 15-Jun-15 (in house check Oct-22)	In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 In house check: Oct-24
Secondary Standards Power mater E44198 Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06	ID # SN: GB38512475 SN: US37292783 SN: MY4109315 SN: 100972 SN: US41080477	30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 15-Jun-15 (in house check Oct-22) 31-Mar-14 (in house check Oct-22)	In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 In house check: Oct-24

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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
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

Glossary:

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

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41,9	0.89 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.7 ± 6 %	0.90 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	2411	2000

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.18 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.59 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.42 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.62 W/kg ± 16.5 % (k≃2)

Certificate No: D750V3-1014_May23

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	54.7 Ω + 3.7 JΩ	
Return Loss	- 24.8 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.038 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG	

Certificate No: D750V3-1014_May23

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F-TP22-03 (Rev. 05)



DASY5 Validation Report for Head TSL

Date: 23.05.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1014

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz; $\sigma = 0.9 \text{ S/m}$; $\epsilon_r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(10.11, 10.11, 10.11) @ 750 MHz; Calibrated: 10.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 61.58 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 3.34 W/kg

SAR(1 g) = 2.18 W/kg; SAR(10 g) = 1.42 W/kg

Smallest distance from peaks to all points 3 dB below = 17.1 mm

Ratio of SAR at M2 to SAR at M1 = 64.9%

Maximum value of SAR (measured) = 2.90 W/kg



0 dB = 2.90 W/kg = 4.62 dBW/kg

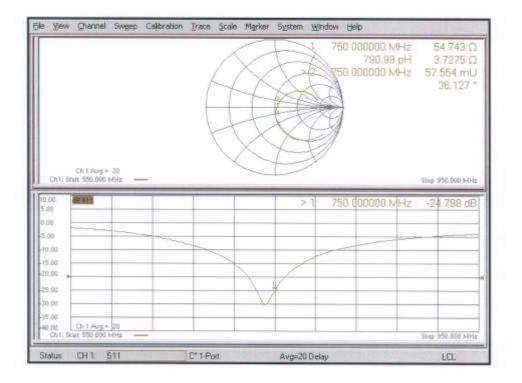
Certificate No: D750V3-1014_May23

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Impedance Measurement Plot for Head TSL



Certificate No: D750V3-1014_May23

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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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SA5) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Client HCT

Gyeonggi-do, Republic of Korea

Certificate No. D835V2-4d165 May23

106.07

2023 100.02

CALIBRATION CERTIFICATE D835V2 - SN:4d165 Object QA CAL-05.v12 Calibration procedure(s) Calibration Procedure for SAR Validation Sources between 0.7-3 GHz Calibration date: May 23, 2023 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 1D # Cal Date (Certificate No.) Scheduled Calibration Power meter NRP2 SN: 104778 30-Mar-23 (No. 217-03804/03805) Mar-24 Power sensor NRIP-Z91 SN: 103244 30-Mar-23 (No. 217-03804) Mar-24 Power sensor NRP-Z91 SN: 103245 30-Mar-23 (No. 217-03805) Mar-24 Reference 20 dB Attenuator SN: BH9394 (20k) 30-Mar-23 (No. 217-03809) Mar-24 Type-N mismatch combination SN: 310982 / 06327 30-Mar-23 (No. 217-03810) Mar-24 Reference Probe EX3DV4 SN: 7349 10-Jan-23 (No. EX3-7349 Jan23) Jan-24 DAE4 SN: 601 19-Dec-22 (No. DAE4-601_Dec22) Dec-23 ID# Secondary Standards Check Date (in house) Scheduled Check Power meter E4419B SN: GB39512475 30-Oct-14 (in house check Oct-22) In house check: Oct-24 Power sensor HP 8481A SN: US37292783 07-Oct-15 (in house check Oct-22) In house check: Oct-24 Power sensor HP 8481A SN: MY41093315 07-Oct-15 (in house check Oct-22) In house check: Odr-24 RF generator R&S SMT-06 SN: 100972 15-Jun-15 (In house check Oct-22) In house check: Oct-24 Network Analyzer Agilent E8358A SN: US41080477 31-Mar-14 (in house check Oct-22) In house check: Oct-24 Function Calibrated by: Michael Weber Laboratory Technician Technical Manager Approved by: Svan Kühn This calibration certificate shall not be reproduced except in full without written approval of the laboratory. Certificate No: D835V2-4d165_May23 Page 1 of 6 Dr. / 85272 1有香福

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Calibration Laboratory of

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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

Glossary:

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

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- · SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

Certificate No: D835V2-4d165_May23 Page 2 of 6



Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.5 ± 6 %	0.93 mha/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	1000	

SAR result with Head TSL

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.51 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.74 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.62 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	6.33 W/kg ± 16.5 % (k=2)



Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.2 Ω - 3.2 jΩ	
Return Loss	- 29.5 dB	

General Antenna Parameters and Design

CLUMENT STREET OF THE STREET STREET	CACCE D 1000
Electrical Delay (one direction)	1.389 ns
Electrical Delay (the direction)	1,369 ПБ

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG

Certificate No: D836V2-4d165_May23

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DASY5 Validation Report for Head TSL

Date: 23.05.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d165

Communication System: UID 0 - CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz; $\sigma = 0.93$ S/m; $\varepsilon_r = 40.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(9.69, 9.69, 9.69) @ 835 MHz; Calibrated: 10.01.2023
- · Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001.
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 64.33 V/m; Power Drift = -0.04 dB

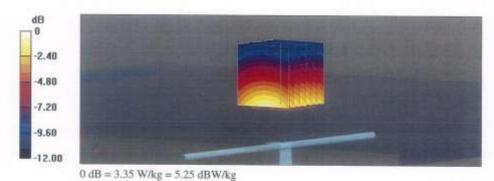
Peak SAR (extrapolated) = 3.79 W/kg

SAR(1 g) = 2.51 W/kg; SAR(10 g) = 1.62 W/kg

Smallest distance from peaks to all points 3 dB below = 16 mm

Ratio of SAR at M2 to SAR at M1 = 65.9%

Maximum value of SAR (measured) = 3.35 W/kg



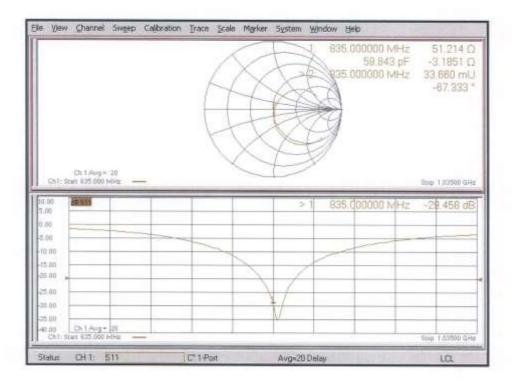
Certificate No: D835V2-4d165_May23

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Impedance Measurement Plot for Head TSL



Certificate No: D835V2-4d165_May23

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Client HCT

Certificate No. D1800V2-2d015_May23

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Calibration Laboratory of

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





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Glossary:

TSL ConvF N/A tissue simulating liquid

sensitivity in TSL / NORM x,y,z

not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

Certificate No: D1800V2-2d015_May23

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1800 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.5 ± 6 %	1.37 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	·	-

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.42 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	37.8 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	4.92 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	19.7 W/kg ± 16.5 % (k=2)



Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	48.9 Ω - 4.0 jΩ	
Return Loss	- 27.6 dB	

General Antenna Parameters and Design

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG	

Certificate No: D1800V2-2d015_May23

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DASY5 Validation Report for Head TSL

Date: 17.05.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d015

Communication System: UID 0 - CW; Frequency: 1800 MHz

Medium parameters used: f = 1800 MHz; $\sigma = 1.37 \text{ S/m}$; $\epsilon_r = 38.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.63, 8.63, 8.63) @ 1800 MHz; Calibrated: 10.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

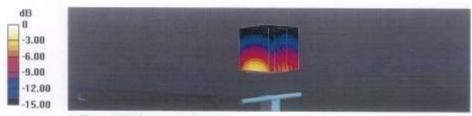
Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 109.2 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 9.42 W/kg; SAR(10 g) = 4.92 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 54.8% Maximum value of SAR (measured) = 14.5 W/kg



0 dB = 14.5 W/kg = 11.61 dBW/kg

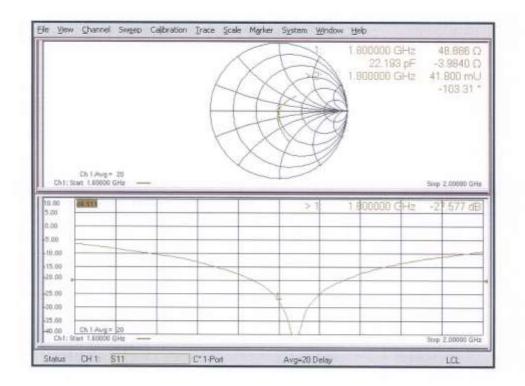
Certificate No: D1800V2-2d015_May23

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Impedance Measurement Plot for Head TSL



Certificate No: D1800V2-2d015_May23

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Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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Client HCT

Gyeonggi-do, Republic of Korea

Certificate No. D1900V2-5d032 Jan24

CALIBRATION CERTIFICATE D1900V2 - SN:5d032 Object QA CAL-05.v12 Calibration procedure(s) Calibration Procedure for SAR Validation Sources between 0.7-3 GHz January 18, 2024 Calibration date: 2024.52.07 2024.02.01 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 Cal Date (Certificate No.) Scheduled Calibration Power meter NRP2 SN: 104778 30-Mar-23 (No. 217-03804/03805) Mar-24 Power sensor NRP-Z91 SN: 103244 30-Mar-23 (No. 217-03804) Mar-24 Power sensor NRP-Z91 SN: 103245 30-Mar-23 (No. 217-03805) Mar-24 Reference 20 dB Attenuator SN: BH9394 (20k) 30-Mar-23 (No. 217-03809) Mar-24 Type-N mismatch combination SN: 310982 / 06327 30-Mar-23 (No. 217-03810) Mar-24 Reference Probe EX3DV4 SN: 7349 03-Nov-23 (No. EX3-7349_Nov23) Nov-24 DAE4 SN: 601 03-Oct-23 (No. DAE4-601_Oct23) Oct-24 Secondary Standards ID# Check Date (in house) Scheduled Check SN: GB39512475 Power meter E4419B 30-Oct-14 (in house check Oct-22) In house check: Oct-24 Power sensor HP 8481A SN: US37292783 07-Oct-15 (in house check Oct-22) In house check: Oct-24 Power sensor HP 8481A SN: MY41093315 07-Oct-15 (in house check Oct-22) In house check: Oct-24 RF generator R&S SMT-06 SN: 100972 In house check: Oct-24 15-Jun-15 (in house check Oct-22) Network Analyzer Agilent E8358A SN: US41080477 31-Mar-14 (in house check Oct-22) In house check: Oct-24 Name Function Signature Paulo Pina Calibrated by: Laboratory Technician Approved by: Sven Kühn Technical Manager Issued: January 18, 2024 This calibration certificate shall not be reproduced except in full without written approval of the laboratory

Certificate No: D1900V2-5d032_Jan24

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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:

N/A

tissue simulating liquid TSL ConvF sensitivity in TSL / NORM x,y,z not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The source is mounted in a touch configuration below the center marking of the flat phantom.
- · Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

Certificate No: D1900V2-5d032_Jan24

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Measurement Conditions

ASY system configuration, as far as not		WEST TO SERVICE THE
DASY Version	DASY52	V52.10,4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz ± 1 MHz	

Head TSL parameters
The following parameters and calculations were applied,

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	41.3 ± 6 %	1.40 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	-	and the same of th

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.97 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	40.2 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.0 W/kg ± 16.5 % (k=2)



Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	$50.2 \Omega + 6.8 j\Omega$	
Return Loss	- 23.4 dB	

General Antenna Parameters and Design

	100.000
Electrical Delay (one direction)	1,182 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
manufactured by	Un End

Certificate No: D1900V2-5d032_Jan24

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DASY5 Validation Report for Head TSL

Date: 18.01.2024

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d032

Communication System: UID 0 - CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.4 \text{ S/m}$; $\varepsilon_r = 41.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(8.43, 8.43, 8.43) @ 1900 MHz; Calibrated: 03.11.2023

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

· Electronics: DAE4 Sn601; Calibrated: 03.10.2023

Phantom; Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

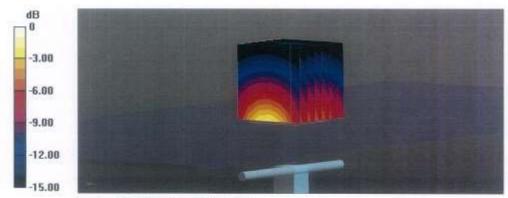
Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 109.9 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 18.3 W/kg

SAR(1 g) = 9.97 W/kg; SAR(10 g) = 5.22 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 54.9% Maximum value of SAR (measured) = 15.5 W/kg



0 dB = 15.5 W/kg = 11.90 dBW/kg

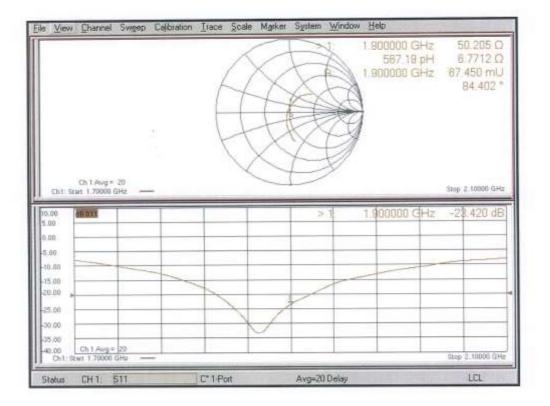
Certificate No: D1900V2-5d032_Jan24

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Impedance Measurement Plot for Head TSL



Certificate No: D1900V2-5d032_Jan24

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





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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 HCT

Certificate No. D2450V2-1049_Apr23

Object	D2450V2 - SN:1	049	
Calibration procedure(s)	QA CAL-05.v12 Calibration Proce	edure for SAR Validation Sources	s between 0.7-3 GHz
Calibration date:	April 25, 2023		
The measurements and the uncert	tainties with confidence p	onal standards, which realize the physical uni robability are given on the following pages an ry facility: environment temperature (22 ± 3)*(d are part of the certificate.
Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03806)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 7349	10-Jan-23 (No. EX3-7349, Jan23)	Jan-24
	SN: 601	19-Dec-22 (No. DAE4-601_Dec22)	Dec-23
DAE4	1 333		0.00 20
	ID#		
Secondary Standards	MINACHONI.	Check Date (in house)	Scheduled Check
Secondary Standards Power meter E4419B	ID#	Check Date (in house) 30-Oct-14 (in house check Oct-22)	Scheduled Check In house check: Oct-24
Secondary Standards Power meter E4419B Power sensor HP 8481A	ID # SN: GB39512475	Check Date (in house) 30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22)	Scheduled Check In house check: Oct-24 In house check: Oct-24
Secondary Standards Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06	ID # SN: GB39512475 SN: US37292783	Check Date (in house) 30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 07-Oct-15 (in house check Oct-22)	Scheduled Check In house check: Oct-24 In house check: Oct-24 In house check: Oct-24
Secondary Standards Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06	ID # SN: GB39512475 SN: US37292783 SN: MY41093315	Check Date (in house) 30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22)	Scheduled Check In house check: Oct-24 In house check: Oct-24
DAE4 Secondary Standards Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer Agilent E8358A	ID # SN: GB39512475 SN: US37292783 SN: MY41093315 SN: 100972	Check Date (in house) 30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 15-Jun-15 (in house check Oct-22) 31-Mar-14 (in house check Oct-22)	Scheduled Check In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 In house check: Oct-24
Secondary Standards Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06	ID # SN: GB39512475 SN: US37292783 SN: MY41093315 SN: 100972 SN: US41080477	Check Date (in house) 30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 15-Jun-15 (in house check Oct-22)	Scheduled Check In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 In house check: Oct-24
Secondary Standards Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer Agilent E8358A	ID # SN: GB39512475 SN: US37292783 SN: MY41093315 SN: 100972 SN: US41080477 Name	Check Date (in house) 30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 15-Jun-15 (in house check Oct-22) 31-Mar-14 (in house check Oct-22)	Scheduled Check In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 In house check: Oct-24
Secondary Standards Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer Agilent E6358A Calibrated by:	ID # SN: GB39512475 SN: US37292783 SN: MY41093315 SN: 100972 SN: US41080477 Name Michael Weber	Check Date (in house) 30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 15-Jun-15 (in house check Oct-22) 31-Mar-14 (in house check Oct-22) Function Laboratory Technician	Scheduled Check In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 In house check: Oct-24
Secondary Standards Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A 3F generator R&S SMT-06 Network Analyzer Agilent E6358A Celibrated by:	ID # SN: GB39512475 SN: US37292783 SN: MY41093315 SN: 100972 SN: US41080477 Name Michael Weber Sven Küfin	Check Date (in house) 30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 15-Jun-15 (in house check Oct-22) 31-Mar-14 (in house check Oct-22) Function Laboratory Technician	Scheduled Check In house check: Oct-24 Signature

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Calibration Laboratory of

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





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Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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Glossary:

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

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

Certificate No: D2450V2-1049_Apr23

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Measurement Conditions

DASY system configuration, as far as not given on page 1

DASY Version	DASY52	V52,10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.7 ± 6 %	1.86 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	****	-

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.5 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	52.7 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.23 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.6 W/kg ± 16.5 % (k=2)



Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	49.1 Ω + 8.8 jΩ
Return Loss	- 21.0 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1,160 ns	
----------------------------------	----------	--

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG

Certificate No: D2450V2-1049_Apr23 Page 4 of 7

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DASY5 Validation Report for Head TSL

Date: 25.04.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 1049

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 1.86$ S/m; $\epsilon_r = 37.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(7.88, 7.88, 7.88) @ 2450 MHz; Calibrated: 10.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- · Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

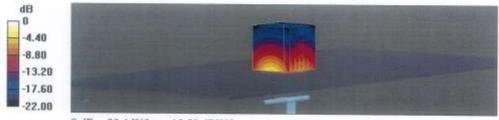
Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 117.0 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 26.9 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.23 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 50.1% Maximum value of SAR (measured) = 22.4 W/kg



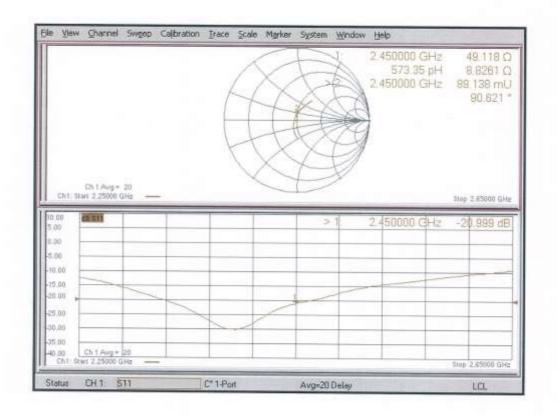
0 dB = 22.4 W/kg = 13.50 dBW/kg

Certificate No: D2450V2-1049_Apr23

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Impedance Measurement Plot for Head TSL



Certificate No: D2450V2-1049_Apr23

Page 6 of 7



Appendix: Transfer Calibration at Four Validation Locations on SAM Head¹

Evaluation Condition

SERVICE OF SERVICE SER	Contraction of the Contraction o	
Phantom	SAM Head Phantom	For usage with cSAR3DV2-R/L
And the state of t		The second secon

SAR result with SAM Head (Top ≅ C0)

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	56.2 W/kg ± 17.5 % (k=2)
SAR averaged over 10 cm3 (10 g) of Head TSL	condition	

SAR result with SAM Head (Mouth F90)

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	57.3 W/kg ± 17.5 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	

SAR result with SAM Head (Neck ≅ H0)

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	54.0 W/kg ± 17.5 % (k=2)
SAR averaged over 10 cm3 (10 g) of Head TSL	condition	

SAR result with SAM Head (Ear ≅ D90)

SAH averaged over 1 cm- (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	34.6 W/kg ± 17.5 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
are a serial and the distribution tor	Condition	

Certificate No: D2450V2-1049_Apr23

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Additional assessments outside the current scope of SCS 0108



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



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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 HCT

Gyeonggi-do, Republic of Korea

Certificate No. D2600V2-1106_May23

	ERTIFICATI	-		
Object	D2600V2 - SN:1	106		
Calibration procedure(s)	QA CAL-05.v12 Calibration Proce	edure for SAR Valid	dation Source	es between 0.7-3 GHz
Calibration date:	May 24, 2023			
This calibration certificate documer The measurements and the uncert All calibrations have been conduct	ainties with confidence po ed in the closed laborator	robability are given on the	following pages	and are part of the certificate.
Calibration Equipment used (M&TE Primary Standards	Ecritical for calibration)	Cal Date (Certificate N	-1	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03		Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03	The state of the s	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03		Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03	C 10	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03		Mar-24
Reference Proba EX3DV4	SN: 7349	10-Jan-23 (No. EX3-7)	7-3-70	Jan-24
DAE4	SN: 601	19-Dec-22 (No. DAE4-		Dec-23
Secondary Standards	ID#	Check Date (in house)		Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house ch	eck Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house ch	eck Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house of	eck Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house ch	eck Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8368A	SN: US41080477	31-Mar-14 (in house ch	reck Oct-22)	In house check: Oct-24
		-		Signature
	Name	Function		The second secon
Calibrated by:	Name Paulo Pina		Technician	
Calibrated by:			Technician	7-6-
or the Alexandre Co.	Paulo Pina	Laboratory		7=62
Calibrated by: Approved by:				7=12 S.L.
Approved by:	Paulo Pina Sven Kühn	Laboratory Technical	Vanager	S. C. Issued: May 24, 2023
Approved by:	Paulo Pina Sven Kühn	Laboratory Technical	Vanager	S. C. Issued: May 24, 2023
Approved by: This calibration certificate shall not	Paulo Pina Sven Kühn be reproduced except in	Laboratory Technical I	Annager	S. C. Issued: May 24, 2023
Approved by: This calibration certificate shall not	Paulo Pina Sven Kühn be reproduced except in	Laboratory Technical	Vanager	S. C. Issued: May 24, 2023
51 F54 (A.A. 1996 F42 F42 19	Paulo Pina Sven Kühn be reproduced except in	Laboratory Technical I	Annager	S. C. Issued: May 24, 2023

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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:

TSL tissue simulating liquid

ConvF sensitivity in TSL / NORM x,y,z N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- · SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

Certificate No: D2600V2-1106_May23 Page 2 of 6



Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2600 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.96 mha/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.1 ± 6 %	2.00 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	-	-222

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	14.2 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	55.6 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ² (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.37 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	25.1 W/kg ± 16.5 % (k=2)



Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	48.9 Ω - 6.8 jΩ	
Return Loss	-23.1 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.149 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG

Certificate No: D2600V2-1106_May23

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DASY5 Validation Report for Head TSL

Date: 24.05.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1106

Communication System: UID 0 - CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2 \text{ S/m}$; $\epsilon_r = 37.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe; EX3DV4 SN7349; ConvF(7.68, 7.68, 7.68) @ 2600 MHz; Calibrated: 10.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 117.6 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 27.7 W/kg

SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.37 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 51.4% Maximum value of SAR (measured) = 23.0 W/kg



0 dB = 23.0 W/kg = 13.62 dBW/kg

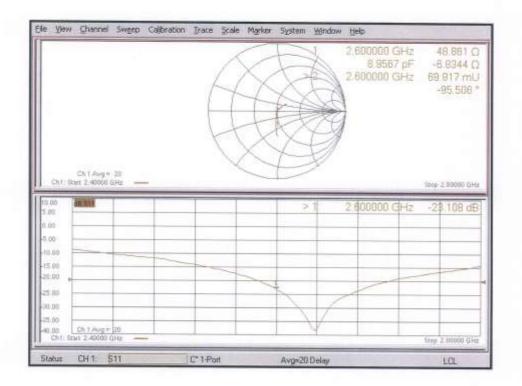
Certificate No: D2600V2-1106_May23

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Impedance Measurement Plot for Head TSL



Certificate No: D2600V2-1106_May23

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Client HCT

Gyeonggi-do, Republic of Korea

Certificate No. D5GHzV2-1317_May23

CALIBRATION CERTIFICA	IE	l
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D5GHzV2 - SN:1317 Object

Calibration procedure(s) QA CAL-22.v7

Calibration Procedure for SAR Validation Sources between 3-10 GHz

May 17, 2023 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 NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN; 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 3503	07-Mar-23 (No. EX3-3503_Mar23)	Mar-24
DAE4	SN: 601	19-Dec-22 (No. DAE4-601_Dec22)	Dec-23
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent EB358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24
	Name	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technician	Milder
Approved by:	Sven Kühn	Technical Manager	56
			Issued: May 25, 2023

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Calibration Laboratory of Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kallbrierdienst
C Service suisse d'étalonnage
Servizio svizzaro di taratura
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

Glossary:

TSL ConvF N/A tissue simulating liquid

sensitivity in TSL / NORM x,y,z not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	11000000
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5250 MHz ± 1 MHz 5600 MHz ± 1 MHz 5750 MHz ± 1 MHz 5800 MHz ± 1 MHz	

Head TSL parameters at 5250 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.71 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.8 ± 6 %	4.60 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	4666	100

SAR result with Head TSL at 5250 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.94 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	78.8 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.28 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.6 W/kg ± 19.5 % (k=2)



Head TSL parameters at 5600 MHz

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.6 ± 6 %	4.97 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	3522	

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.17 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.2 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.32 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.0 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5750 MHz

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.4	5.22 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) "C	34.4 ± 6 %	5.08 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	(Malake)	2022

SAR result with Head TSL at 5750 MHz

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.79 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	77.4 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.23 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.1 W/kg ± 19.5 % (k=2)



Head TSL parameters at 5800 MHz

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) "C	34.3 ± 6 %	5.11 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		****

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7,75 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	76.9 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm3 (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.20 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.8 W/kg ± 19.5 % (k=2)



Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5250 MHz

Impedance, transformed to feed point	44.6 Ω - 2.0 jΩ	
Return Loss	- 24.3 dB	

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	48.0 Ω = 0.3 jΩ	
Return Loss	- 33.6 dB	

Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	47.2 Ω + 1.2 jΩ	
Return Loss	- 30.0 dB	٦

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	46.0 Ω + 0.8 μΩ
Return Loss	- 27.4 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.191 ns	
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG

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DASY5 Validation Report for Head TSL

Date: 17.05.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1317

Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750

MHz, Frequency: 5800 MHz

Medium parameters used: f = 5250 MHz; $\sigma = 4.6$ S/m; $\epsilon_f = 34.8$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5600 MHz; $\sigma = 4.97$ S/m; $\epsilon_f = 34.6$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5750 MHz; $\sigma = 5.08$ S/m; $\epsilon_f = 34.4$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5800 MHz; $\sigma = 5.11$ S/m; $\epsilon_f = 34.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.5, 5.5, 5.5) @ 5250 MHz, ConvF(5.1, 5.1, 5.1) @ 5600 MHz, ConvF(5.08, 5.08, 5.08) @ 5750 MHz, ConvF(5.01, 5.01, 5.01) @ 5800 MHz; Calibrated: 07.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 75.29 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 26.9 W/kg

SAR(1 g) = 7.94 W/kg; SAR(10 g) = 2.28 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 71.8%

Maximum value of SAR (measured) = 17.6 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 74.66 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 30.1 W/kg

SAR(1 g) = 8.17 W/kg; SAR(10 g) = 2.32 W/kg

Smallest distance from peaks to all points 3 dB below = 6.8 mm

Ratio of SAR at M2 to SAR at M1 = 68.8%

Maximum value of SAR (measured) = 18.8 W/kg

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Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 72.14 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 29.8 W/kg

SAR(1 g) = 7.79 W/kg; SAR(10 g) = 2.23 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 66.1%

Maximum value of SAR (measured) = 18.2 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 71.84 V/m; Power Drift = 0.00 dB

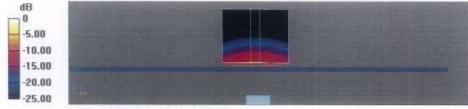
Peak SAR (extrapolated) = 30.2 W/kg

SAR(1 g) = 7.75 W/kg; SAR(10 g) = 2.2 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 65.5%

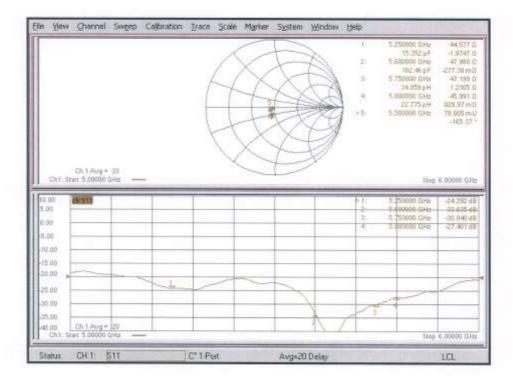
Maximum value of SAR (measured) = 18.3 W/kg



0 dB = 18.8 W/kg = 12.74 dBW/kg



Impedance Measurement Plot for Head TSL



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Appendix: Transfer Calibration at Four Validation Locations on SAM Head1

Evaluation Conditions (f=5250 MHz)

Phantom	SAM Head Phantom	For usage with cSAR3DV2-R/L
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SAR result with SAM Head (Top)

SAR averaged over 1 cm ² (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	84.3 W/kg ± 20.3 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	

SAR result with SAM Head (Mouth)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	83.5 W/kg ± 20.3 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	

SAR result with SAM Head (Neck)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	81.7 W/kg ± 20.3 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	

SAR result with SAM Head (Ear)

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	52.8 W/kg ± 20.3 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
The state of the s		

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Additional assessments outside the current scope of SCS 0108



Appendix: Transfer Calibration at Four Validation Locations on SAM Head²

Evaluation Conditions (f=5800 MHz)

Phantom	SAM Head Phantom	For usage with cSAR3DV2-R/L
Cuanom	OAM Fledu Filanioni	For usage with CSAHSDYZ-RIC

SAR result with SAM Head (Top)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	79.9 W/kg ± 20.3 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	

SAR result with SAM Head (Mouth)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	86.4 W/kg ± 20.3 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	

SAR result with SAM Head (Neck)

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	77.1 W/kg ± 20.3 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	

SAR result with SAM Head (Ear)

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	54.9 W/kg ± 20.3 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	

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Additional assessments outside the current scope of SCS 0108.