10575- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 90pc duty cycle)	X	4.55	66.88	16.70	0.46	130.0	± 9.6 %
	The state of the s	Y	4.27	66.26	16.01		130.0	
		Z	4.23	66.65	16.14		130.0	
10576- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle)	Х	4.58	67.08	16.79	0.46	130.0	± 9.6 %
		Y	4.30	66.48	16.12		130.0	
		Z	4.26	66.91	16.26		130.0	
10577- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	X	4.75	67.32	16.93	0.46	130.0	± 9.6 %
		Y	4.45	66.71	16.26		130.0	
		Z	4.40	67.10	16.39		130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	4.66	67.47	17.04	0.46	130.0	± 9.6 %
		Y	4.36	66.84	16.37		130.0	
		Z	4.32	67.26	16.52		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	Х	4.41	66.70	16.32	0.46	130.0	± 9.6 %
		Y	4.10	65.94	15.55		130.0	
		Z	4.05	66.28	15.66		130.0	
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	Х	4.45	66.77	16.35	0.46	130.0	± 9.6 %
		Y	4.12	65.96	15.55		130.0	
		Z	4.05	66.23	15.62		130.0	
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	Х	4.57	67.57	17.03	0.46	130.0	± 9.6 %
		Y	4.27	66.92	16.34		130.0	
		Z	4.24	67.39	16.52		130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.34	66.47	16.11	0.46	130.0	± 9.6 %
		Y	4.02	65.70	15.32		130.0	
		Z	3.96	66.02	15.42		130.0	
10583- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	Х	4.55	66.88	16.70	0.46	130.0	± 9.6 %
		Y	4.27	66.26	16.01		130.0	
		Z	4.23	66.65	16.14		130.0	
10584- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.58	67.08	16.79	0.46	130.0	± 9.6 %
		Y	4.30	66.48	16.12		130.0	
		Z	4.26	66.91	16.26		130.0	
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.75	67.32	16.93	0.46	130.0	± 9.6 %
		Y	4.45	66.71	16.26		130.0	
		Z	4.40	67.10	16.39		130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	Х	4.66	67.47	17.04	0.46	130.0	± 9.6 %
		Y	4.36	66.84	16.37		130.0	
		Z	4.32	67.26	16.52		130.0	
10587- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.41	66.70	16.32	0.46	130.0	± 9.6 %
		Y	4.10	65.94	15.55		130.0	
		Z	4.05	66.28	15.66		130.0	
10588- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.45	66.77	16.35	0.46	130.0	± 9.6 %
		Y	4.12	65.96	15.55		130.0	
10500	V=== 000 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Z	4.05	66.23	15.62		130.0	
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.57	67.57	17.03	0.46	130.0	± 9.6 %
		Y	4.27	66.92	16.34		130.0	
		Z	4.24	67.39	16.52		130.0	
10590- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	Х	4.34	66.47	16.11	0.46	130.0	± 9.6 %
		Y	4.02	65.70	15.32		130.0	
		Z	3.96	66.02	15.42		130.0	

10591- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.71	66.94	16.80	0.46	130.0	± 9.6 %
		Y	4.43	66.39	16.18		130.0	
		Z	4.40	66.79	16.31		130.0	
10592- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	Х	4.83	67.25	16.93	0.46	130.0	± 9.6 %
		Y	4.53	66.65	16.30		130.0	1
		Z	4.48	67.02	16.42		130.0	
10593- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	Х	4.75	67.14	16.80	0.46	130.0	± 9.6 %
		Y	4.45	66.52	16.14		130.0	
		Z	4.40	66.90	16.27		130.0	
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.81	67.31	16.96	0.46	130.0	± 9.6 %
		Y	4.51	66.70	16.32		130.0	
		Z	4.46	67.08	16.44		130.0	
10595- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.77	67.30	16.88	0.46	130.0	± 9.6 %
		Υ	4.47	66.67	16.22		130.0	
		Z	4.42	67.05	16.35		130.0	
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.71	67.27	16.88	0.46	130.0	± 9.6 %
		Y	4.40	66.60	16.19		130.0	
		Z	4.34	66.95	16.31		130.0	
10597- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.66	67.15	16.73	0.46	130.0	± 9.6 %
		Y	4.35	66.46	16.03		130.0	
		Z	4.30	66.82	16.15		130.0	
10598- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	Х	4.65	67.37	16.99	0.46	130.0	± 9.6 %
		Y	4.35	66.72	16.32		130.0	
		Z	4.32	67.13	16.46		130.0	
10599- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.40	67.42	17.03	0.46	130.0	± 9.6 %
		Y	5.16	66.96	16.55		130.0	
	V 1727	Z	5.17	67.44	16.75		130.0	
10600- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.53	67.87	17.23	0.46	130.0	± 9.6 %
		Y	5.26	67.33	16.71		130.0	
		Z	5.15	67.40	16.71		130.0	
10601- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	Х	5.41	67.59	17.11	0.46	130.0	± 9.6 %
		Y	5.18	67.17	16.65		130.0	
		Z	5.12	67.42	16.74		130.0	
10602- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.55	67.77	17.12	0.46	130.0	± 9.6 %
		Y	5.23	67.08	16.51		130.0	
		Z	5.14	67.20	16.54		130.0	
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.62	68.06	17.40	0.46	130.0	± 9.6 %
		Y	5.28	67.30	16.77		130.0	
412024		Z	5.16	67.34	16.76		130.0	
10604- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	Х	5.49	67.70	17.20	0.46	130.0	± 9.6 %
		Y	5.14	66.79	16.49		130.0	
U. C. C. C. C.		Z	5.07	67.00	16.55		130.0	
10605- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.51	67.73	17.21	0.46	130.0	± 9.6 %
		Y	5.22	67.10	16.64		130.0	
		Z	5.11	67.17	16.64		130.0	
10606- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	Х	5.27	67.10	16.75	0.46	130.0	± 9.6 %
		Y	5.04	66.64	16.26	17	130.0	
		Z	4.99	66.92				

10607- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.56	66.34	16.47	0.46	130.0	± 9.6 %
		Y	4.28	65.71	15.81		130.0	
		Z	4.25	66.15	15.97		130.0	
10608- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	Х	4.71	66.69	16.63	0.46	130.0	± 9.6 %
		Y	4.39	65.99	15.94		130.0	
		Z	4.35	66.40	16.09		130.0	
10609- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.61	66.54	16.46	0.46	130.0	± 9.6 %
		Y	4.29	65.81	15.74		130.0	
10010		Z	4.25	66.23	15.90		130.0	
10610- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	Х	4.66	66.70	16.62	0.46	130.0	± 9.6 %
		Υ	4.34	66.00	15.93		130.0	
10011	IEEE 000 44 - WEE (0014) - 1400 (Z	4.30	66.41	16.08		130.0	
10611- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	Х	4.57	66.50	16.47	0.46	130.0	± 9.6 %
		Y	4.26	65.77	15.76		130.0	
10640		Z	4.21	66.17	15.90		130.0	1
10612- AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.57	66.65	16.53	0.46	130.0	± 9.6 %
		Y	4.23	65.85	15.77		130.0	
10010		Z	4.17	66.21	15.90	2 2 2	130.0	
10613- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.56	66.47	16.37	0.46	130.0	± 9.6 %
		Y	4.23	65.67	15.61		130.0	
10614-	IEEE 902 11cc WiF: (20MH- MCC7	Z	4.18	66.04	15.74	0.40	130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.53	66.69	16.62	0.46	130.0	± 9.6 %
		Y	4.21	65.93	15.89		130.0	
10615-	IEEE 900 44 co MiEi (20MH - MCCC	Z	4.17	66.34	16.04		130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.57	66.35	16.25	0.46	130.0	± 9.6 %
		Y	4.24	65.59	15.50		130.0	
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	Z X	4.19 5.21	65.99 66.63	15.65 16.62	0.46	130.0 130.0	± 9.6 %
	sopo daly cycley	Y	4.94	66.02	16.06		130.0	
		Z	4.88	66.29	16.16		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.27	66.82	16.69	0.46	130.0	± 9.6 %
		Y	4.97	66.12	16.09		130.0	
		Z	4.90	66.35	16.18		130.0	
10618- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.17	66.88	16.74	0.46	130.0	± 9.6 %
		Y	4.87	66.14	16.11		130.0	
		Z	4.82	66.42	16.22		130.0	
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.19	66.67	16.57	0.46	130.0	± 9.6 %
		Y	4.93	66.11	16.03		130.0	
		Z	4.87	66.36	16.13		130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	Х	5.26	66.67	16.62	0.46	130.0	± 9.6 %
		Y	4.97	66.01	16.03		130.0	
10000		Z	4.89	66.21	16.09		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.26	66.76	16.78	0.46	130.0	± 9.6 %
		Y	4.98	66.14	16.22		130.0	
	Market Committee	Z	4.93	66.40	16.32		130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	Х	5.26	66.88	16.83	0.46	130.0	± 9.6 %
		Y	4.97	66.22	16.26		130.0	
		Z	4.91	66.46	16.35		130.0	

10623- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.14	66.40	16.46	0.46	130.0	± 9.6 %
		Y	4.87	65.80	15.89		130.0	
Louis I		Z	4.82	66.09	16.01		130.0	
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	Х	5.34	66.67	16.65	0.46	130.0	± 9.6 %
		Y	5.06	66.07	16.10		130.0	
		Z	4.99	66.30	16.18		130.0	
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.46	66.91	16.84	0.46	130.0	± 9.6 %
		Y	5.17	66.30	16.29		130.0	
40000	IEEE OOG 44 MIEI (OOM II)	Z	5.08	66.48	16.34		130.0	
10626- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.54	66.64	16.56	0.46	130.0	± 9.6 %
		Y	5.29	66.04	16.03		130.0	
10627-	IFFF 902 44-5 WiF: (90MI - MOO4	Z	5.25	66.28	16.13	2000	130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.79	67.33	16.87	0.46	130.0	± 9.6 %
		Y	5.53	66.73	16.36		130.0	
10000	IEEE 000 44 WEE (2014) 1466-	Z	5.45	66.87	16.40		130.0	
10628- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.54	66.65	16.46	0.46	130.0	± 9.6 %
	/	Y	5.27	66.00	15.91		130.0	
10629-	IEEE 000 44 MiE: (00MH - M000	Z	5.23	66.22	16.00		130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.64	66.83	16.55	0.46	130.0	± 9.6 %
		Y	5.44	66.40	16.11		130.0	
10630-	IEEE 902 44cc WiF: (90MH= MCC4	Z	5.40	66.66	16.22		130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	5.96	67.99	17.13	0.46	130.0	± 9.6 %
		Υ	5.58	67.04	16.44		130.0	
10001	IEEE 000 44 MEE (001 III 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Z	5.43	66.96	16.38		130.0	
10631- AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	Х	5.88	67.85	17.25	0.46	130.0	± 9.6 %
		Y	5.56	67.10	16.67		130.0	
40000	1555 000 44 MUST (0014) 14000	Z	5.47	67.20	16.69		130.0	
10632- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	Х	5.78	67.46	17.07	0.46	130.0	± 9.6 %
		Y	5.57	67.06	16.67		130.0	
10000		Z	5.52	67.30	16.76		130.0	
10633- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	Х	5.59	66.81	16.58	0.46	130.0	± 9.6 %
		Y	5.28	66.05	15.98		130.0	
10001	LEEE COO AL COMPLICATION OF THE COOL	Z	5.24	66.29	16.08		130.0	
10634- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.59	66.89	16.67	0.46	130.0	± 9.6 %
		Y	5.32	66.28	16.15		130.0	
10625	IEEE 900 44 co Wift (COM III MOCC	Z	5.28	66.54	16.25		130.0	
10635- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.45	66.17	16.05	0.46	130.0	± 9.6 %
		Y	5.18	65.50	15.47		130.0	
10636-	IEEE 900 1100 WIE: (400) III - 14000	Z	5.12	65.72	15.55		130.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	5.97	66.99	16.63	0.46	130.0	± 9.6 %
		Y	5.74	66.42	16.15		130.0	
10627	IEEE 000 44 WEE (400 W. 1955)	Z	5.70	66.62	16.21		130.0	
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.11	67.36	16.80	0.46	130.0	± 9.6 %
		Y	5.85	66.72	16.28		130.0	
10620	IEEE 000 44 WIE: (400)	Z	5.79	66.84	16.32		130.0	
10638- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.12	67.37	16.79	0.46	130.0	± 9.6 %
		Y	5.90	66.84	16.32		130.0	
		Z	5.85	67.03	16.39		130.0	

10639- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.08	67.25	16.77	0.46	130.0	± 9.6 %
		Y	5.82	66.64	16.26		130.0	
		Z	5.78	66.82	16.32		130.0	
10640- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.06	67.20	16.69	0.46	130.0	± 9.6 %
		Y	5.75	66.44	16.10		130.0	
		Z	5.69	66.58	16.15		130.0	
10641- AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	Х	6.15	67.26	16.74	0.46	130.0	± 9.6 %
		Y	5.90	66.67	16.24		130.0	
		Z	5.82	66.75	16.26		130.0	
10642- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.16	67.41	16.98	0.46	130.0	± 9.6 %
		Y	5.89	66.78	16.47		130.0	
10010		Z	5.84	66.93	16.51		130.0	
10643- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.02	67.15	16.74	0.46	130.0	± 9.6 %
		Y	5.74	66.46	16.19		130.0	
		Z	5.68	66.59	16.23		130.0	
10644- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	Х	6.08	67.36	16.87	0.46	130.0	± 9.6 %
		Y	5.79	66.60	16.28		130.0	
100:-		Z	5.73	66.75	16.33		130.0	
10645- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.27	67.57	16.94	0.46	130.0	± 9.6 %
	A TO VICTOR OF THE PROPERTY OF	Υ	5.93	66.74	16.32		130.0	
		Z	5.87	66.88	16.37		130.0	
10646- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	9.82	102.37	37.25	9.30	60.0	± 9.6 %
		Y	4.71	83.22	28.72		60.0	
- 2131741	Large Control of the	Z	4.17	82.03	28.47		60.0	
10647- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	8.26	98.50	36.05	9.30	60.0	± 9.6 %
	The state of the s	Υ	4.22	81.13	27.99		60.0	
V = - 12		Z	3.72	79.69	27.60		60.0	
10648- AAA	CDMA2000 (1x Advanced)	Х	0.68	64.63	10.76	0.00	150.0	± 9.6 %
		Y	0.37	60.00	5.84		150.0	
		Z	0.35	60.00	5.90		150.0	
10652- AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.49	67.60	17.08	2.23	80.0	± 9.6 %
		Y	2.87	64.99	14.99		80.0	
		Z	2.89	65.69	15.10		80.0	
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	Х	3.94	66.36	17.01	2.23	80.0	± 9.6 %
		Y	3.49	64.75	15.66		80.0	
10051	LITE TOP (OFFILM	Z	3.51	65.32	15.80		80.0	
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	3.94	65.88	16.98	2.23	80.0	± 9.6 %
		Υ	3.55	64.42	15.76		80.0	
10055	LITE TOD (OFFILM SOLE)	Z	3.57	64.95	15.91		80.0	
10655- AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.01	65.77	16.99	2.23	80.0	± 9.6 %
		Υ	3.64	64.35	15.83		80.0	
10050	B. L. W. C. COOK	Z	3.67	64.83	15.97		80.0	
10658- AAA	Pulse Waveform (200Hz, 10%)	Х	100.00	110.98	25.58	10.00	50.0	± 9.6 %
		Υ	2.90	66.89	10.66		50.0	
10055		Z	2.51	65.68	9.74	S. L.	50.0	
10659- AAA	Pulse Waveform (200Hz, 20%)	X	100.00	115.31	26.34	6.99	60.0	± 9.6 %
		Υ	1.41	64.18	8.36	X	60.0	
		Z	1.35	63.86	8.00		60.0	

10660- AAA	Pulse Waveform (200Hz, 40%)	X	100.00	130.37	31.23	3.98	80.0	± 9.6 %
		Y	0.42	60.00	4.98		80.0	
		Z	0.65	62.63	6.55		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	Х	100.00	160.14	41.59	2.22	100.0	± 9.6 %
		Y	0.23	60.00	3.56		100.0	
		Z	0.35	61.97	5.59		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	Х	100.00	247.15	71.55	0.97	120.0	± 9.6 %
		Υ	1.58	108.30	0.12		120.0	
		Z	0.12	60.00	3.68		120.0	

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

REPORT NO: UL-SAR-RP12743108JD04A V1.0 Issue Date: 03 June 2019

12.5. Calibration Certificate for Dipoles

This sub-section contains Cal Certificates for Dipoles, and is not included in the total number of pages for this report.

Calibration Laboratory of Schmid & Partner

Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





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Swiss Calibration Service

Accreditation No.: SCS 0108

Chelfod M. Nare

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Client

UL RFI UK

Certificate No: D2450V2-725_Sep18

CALIBRATION CERTIFICATE

Object D2450V2 - SN:725

Calibration procedure(s) QA CAL-05.v10

Calibration procedure for dipole validation kits above 700 MHz

Calibration date: September 17, 2018

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: 5058 (20k)	04-Apr-18 (No. 217-02682)	Apr-19
Type-N mismatch combination	SN: 5047.2 / 06327	04-Apr-18 (No. 217-02683)	Apr-19
Reference Probe EX3DV4	SN: 7349	30-Dec-17 (No. EX3-7349_Dec17)	Dec-18
DAE4	SN: 601	26-Oct-17 (No. DAE4-601_Oct17)	Oct-18
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter EPM-442A	SN: GB37480704	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-16)	In house check: Oct-18
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-17)	In house check: Oct-18
	Name	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technician	M.Meses
Approved by:	Katja Pokovic	Technical Manager	some

Issued: September 17, 2018

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Certificate No: D2450V2-725_Sep18

Page 1 of 8

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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) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Certificate No: D2450V2-725_Sep18 Page 2 of 8

Measurement Conditions

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

DASY Version	DASY5	V52.10.1
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	37.9 ± 6 %	1.84 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.0 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	51.1 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.02 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.8 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.7 ± 6 %	2.00 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	12.9 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	50.8 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.01 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	23.8 W/kg ± 16.5 % (k=2)

Certificate No: D2450V2-725_Sep18 Page 3 of 8

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	$54.8~\Omega + 9.3~\mathrm{j}\Omega$	
Return Loss	- 20.1 dB	

Antenna Parameters with Body TSL

Impedance, transformed to feed point	$49.6 \Omega + 9.8 j\Omega$	
Return Loss	- 20.2 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.153 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 on	October 16, 2002

Certificate No: D2450V2-725_Sep18

DASY5 Validation Report for Head TSL

Date: 17.09.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:725

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

Medium parameters used: f = 2450 MHz; $\sigma = 1.84 \text{ S/m}$; $\varepsilon_r = 37.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

• Probe: EX3DV4 - SN7349; ConvF(7.88, 7.88, 7.88) @ 2450 MHz; Calibrated: 30.12.2017

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 26.10.2017

Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

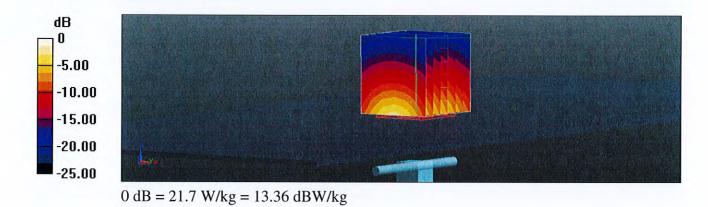
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 115.7 V/m; Power Drift = -0.06 dB

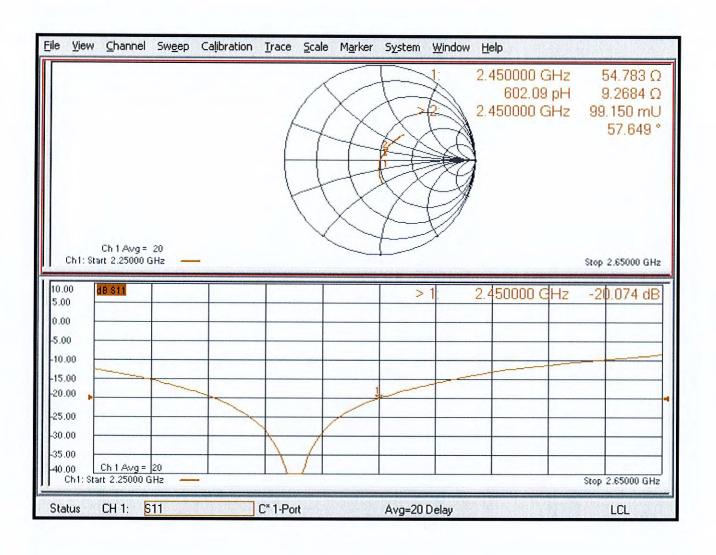
Peak SAR (extrapolated) = 26.4 W/kg

SAR(1 g) = 13 W/kg; SAR(10 g) = 6.02 W/kg

Maximum value of SAR (measured) = 21.7 W/kg



Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 17.09.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:725

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

Medium parameters used: f = 2450 MHz; $\sigma = 2 \text{ S/m}$; $\varepsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

• Probe: EX3DV4 - SN7349; ConvF(8.01, 8.01, 8.01) @ 2450 MHz; Calibrated: 30.12.2017

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

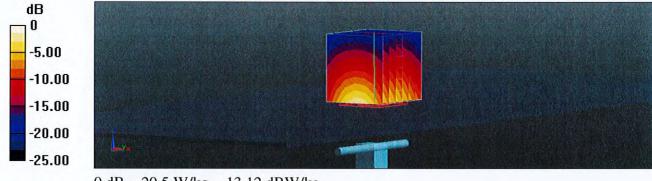
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 107.0 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 25.6 W/kg

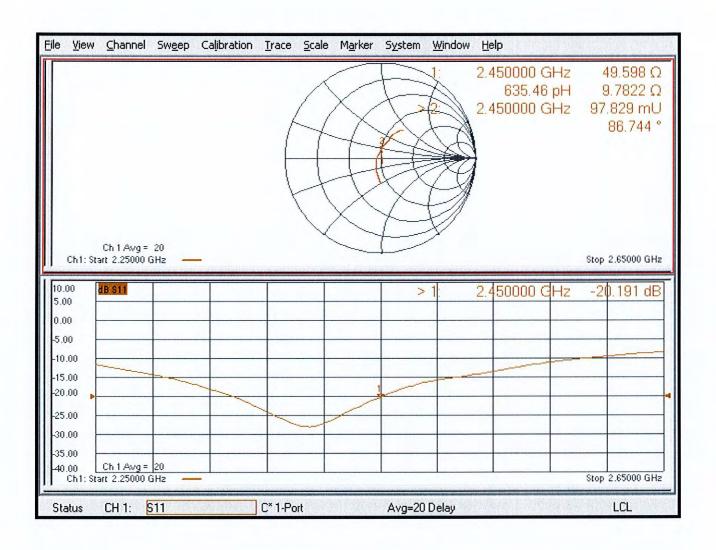
SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.01 W/kg

Maximum value of SAR (measured) = 20.5 W/kg



0 dB = 20.5 W/kg = 13.12 dBW/kg

Impedance Measurement Plot for Body TSL



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Client

UL RFI UK

Necholina No.: SCS 0108

Certificate No: D5GHzV2-1016_Feb19

CALIBRATION CERTIFICATE

Object D5GHzV2 - SN:1016

Calibration procedure(s) QA CAL-22.v4

Calibration Procedure for SAR Validation Sources between 3-6 GHz

Calibration date: February 19, 2019

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: 5058 (20k)	04-Apr-18 (No. 217-02682)	Apr-19
Type-N mismatch combination	SN: 5047.2 / 06327	04-Apr-18 (No. 217-02683)	Apr-19
Reference Probe EX3DV4	SN: 3503	31-Dec-18 (No. EX3-3503_Dec18)	Dec-19
DAE4	SN: 601	04-Oct-18 (No. DAE4-601_Oct18)	Oct-19
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-18)	In house check: Oct-20
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-18)	In house check: Oct-20
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-18)	In house check: Oct-20
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check: Oct-19
	Name	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technician	M. Nese
Approved by:	Katja Pokovic	Technical Manager	11111

Issued: February 20, 2019

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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:

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) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013

b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016

c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010

d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

Measurement Conditions: Further details are available from the Validation Report at the end
of the certificate. All figures stated in the certificate are valid at the frequency indicated.

Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
point exactly below the center marking of the flat phantom section, with the arms oriented
parallel to the body axis.

Feed Point Impedance and Return Loss: These parameters are measured with the dipole
positioned under the liquid filled phantom. The impedance stated is transformed from the
measurement at the SMA connector to the feed point. The Return Loss ensures low
reflected power. No uncertainty required.

Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.

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%.

Measurement Conditions

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

DASY Version	DASY5	V52.10.2
Extrapolation	Advanced Extrapolation	
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 5400 MHz ± 1 MHz 5600 MHz ± 1 MHz 5750 MHz ± 1 MHz 5850 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	36.0 ± 6 %	4.50 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

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	8.12 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.1 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.33 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.3 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5400 MHz

The following parameters and calculations were applied.

The following parameters and several s	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.8	4.86 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.8 ± 6 %	4.66 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5400 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.43 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	84.2 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.42 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.2 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	35.5 ± 6 %	4.86 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.32 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	83.0 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.38 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.8 W/kg ± 19.5 % (k=2)

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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	35.3 ± 6 %	5.02 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5750 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.30 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	82.8 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.37 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.7 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5850 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.2	5.32 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.2 ± 6 %	5.12 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5850 MHz

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.24 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	82.7 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.35 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.6 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5250 MHz

The following parameters and calculations were applied.

To following parameters and exicultaneous trees of	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.9	5.36 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.0 ± 6 %	5.46 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5250 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.39 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	73.3 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.07 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.5 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5400 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.7	5.53 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.7 ± 6 %	5.67 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5400 MHz

Certificate No: D5GHzV2-1016_Feb19

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.70 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	76.4 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.17 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.5 W/kg ± 19.5 % (k=2)