

FCC SAR Test Report

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 132047	Mid CH 132322	High CH 132597		Low CH 132047	Mid CH 132322	High CH 132597		Low CH 132047	Mid CH 132322	High CH 132597	
			1717.5 MHz	1745.0 MHz	1772.5 MHz		1717.5 MHz	1745.0 MHz	1772.5 MHz		1717.5 MHz	1745.0 MHz	1772.5 MHz	
66 / 15M	1	0	20.31	20.37	20.28	0	19.53	19.69	19.58	1	18.37	18.55	18.52	2
	1	37	20.57	20.71	20.64	0	19.55	19.65	19.70	1	18.51	18.53	18.56	2
	1	74	20.31	20.45	20.38	0	19.64	19.84	19.81	1	18.64	18.78	18.83	2
	36	0	19.22	19.42	19.43	1	18.30	18.30	18.43	2	17.34	17.44	17.31	3
	36	19	19.35	19.38	19.38	1	17.77	17.97	17.94	2	17.26	17.36	17.39	3
	36	39	19.11	19.25	19.34	1	17.94	18.00	18.07	2	17.22	17.36	17.29	3
	75	0	19.32	19.38	19.39	1	18.29	18.33	18.26	2	17.26	17.26	17.39	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 132072	Mid CH 132322	High CH 132572		Low CH 132072	Mid CH 132322	High CH 132572		Low CH 132072	Mid CH 132322	High CH 132572	
			1720.0 MHz	1745.0 MHz	1770.0 MHz		1720.0 MHz	1745.0 MHz	1770.0 MHz		1720.0 MHz	1745.0 MHz	1770.0 MHz	
66 / 20M	1	0	20.32	20.41	20.36	0	19.56	19.70	19.64	1	18.43	18.58	18.56	2
	1	50	20.61	20.74	20.70	0	19.59	19.70	19.72	1	18.53	18.60	18.61	2
	1	99	20.33	20.46	20.42	0	19.70	19.86	19.84	1	18.70	18.86	18.85	2
	50	0	19.28	19.47	19.44	1	18.32	18.38	18.44	2	17.35	17.46	17.39	3
	50	25	19.36	19.40	19.43	1	17.85	18.01	17.99	2	17.33	17.44	17.45	3
	50	50	19.19	19.32	19.36	1	17.97	18.06	18.09	2	17.24	17.37	17.33	3
	100	0	19.33	19.42	19.42	1	18.30	18.38	18.34	2	17.28	17.34	17.40	3

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LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			133147	133247	133447		133147	133247	133447		133147	133247	133447	
			665.5 MHz	675.5 MHz	695.5 MHz		665.5 MHz	675.5 MHz	695.5 MHz		665.5 MHz	675.5 MHz	695.5 MHz	
71 / 5M	1	0	21.00	21.24	21.23	0	19.52	19.85	19.84	1	19.26	19.60	19.63	2
	1	12	21.37	21.61	21.65	0	20.28	20.62	20.63	1	19.31	19.61	19.60	2
	1	24	21.55	21.82	21.87	0	20.74	21.01	21.07	1	19.40	19.84	19.80	2
	12	0	20.09	20.38	20.43	0	19.43	19.68	19.74	1	18.37	18.64	18.56	2
	12	6	20.23	20.58	20.52	0	19.22	19.59	19.55	1	18.26	18.61	18.63	2
	12	13	20.18	20.47	20.57	0	19.27	19.55	19.63	1	18.39	18.68	18.63	2
	25	0	20.14	20.47	20.43	1	19.08	19.32	19.32	2	18.38	18.65	18.72	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			133172	133272	133422		133172	133272	133422		133172	133272	133422	
			668 MHz	678 MHz	693 MHz		668 MHz	678 MHz	693 MHz		668 MHz	678 MHz	693 MHz	
71 / 10M	1	0	20.97	21.27	21.23	0	19.52	19.82	19.80	1	19.25	19.61	19.60	2
	1	24	21.37	21.61	21.66	0	20.33	20.58	20.66	1	19.36	19.57	19.64	2
	1	49	21.52	21.86	21.83	0	20.74	21.02	21.04	1	19.46	19.78	19.77	2
	25	0	20.10	20.37	20.46	1	19.45	19.66	19.80	2	18.35	18.61	18.62	3
	25	12	20.29	20.52	20.52	1	19.26	19.53	19.60	2	18.33	18.60	18.57	3
	25	25	20.16	20.44	20.56	1	19.26	19.56	19.60	2	18.38	18.65	18.65	3
	50	0	20.19	20.47	20.40	1	19.12	19.31	19.36	2	18.43	18.61	18.73	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			133197	133297	133397		133197	133297	133397		133197	133297	133397	
			670.5 MHz	680.5 MHz	690.5 MHz		670.5 MHz	680.5 MHz	690.5 MHz		670.5 MHz	680.5 MHz	690.5 MHz	
71 / 15M	1	0	21.04	21.27	21.20	0	19.56	19.89	19.80	1	19.27	19.62	19.61	2
	1	37	21.35	21.66	21.61	0	20.32	20.59	20.66	1	19.37	19.56	19.61	2
	1	74	21.58	21.89	21.84	0	20.70	21.07	21.06	1	19.42	19.77	19.80	2
	36	0	20.07	20.38	20.47	1	19.49	19.66	19.81	2	18.40	18.67	18.56	3
	36	19	20.30	20.57	20.52	1	19.20	19.57	19.56	2	18.27	18.54	18.59	3
	36	39	20.14	20.45	20.56	1	19.31	19.54	19.63	2	18.41	18.72	18.67	3
	75	0	20.19	20.45	20.45	1	19.13	19.34	19.29	2	18.42	18.59	18.74	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			133222	133322	133372		133222	133322	133372		133222	133322	133372	
			673 MHz	683 MHz	688 MHz		673 MHz	683 MHz	688 MHz		673 MHz	683 MHz	688 MHz	
71 / 20M	1	0	21.05	21.31	21.28	0	19.59	19.90	19.86	1	19.33	19.65	19.65	2
	1	50	21.39	21.69	21.67	0	20.36	20.64	20.68	1	19.39	19.63	19.66	2
	1	99	21.60	21.90	21.88	0	20.76	21.09	21.09	1	19.48	19.85	19.82	2
	50	0	20.13	20.43	20.48	1	19.51	19.74	19.82	2	18.41	18.69	18.64	3
	50	25	20.31	20.59	20.57	1	19.28	19.61	19.61	2	18.34	18.62	18.65	3
	50	50	20.22	20.52	20.58	1	19.34	19.60	19.65	2	18.43	18.73	18.71	3
	100	0	20.20	20.49	20.48	1	19.14	19.39	19.37	2	18.44	18.67	18.75	3

FCC SAR Test Report

<Power for LTE Uplink CA>

The conducted power for uplink CA active was measured on the highest reported SAR configuration for each exposure condition with both two carrier components was set to largest channel bandwidth.

7C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	0	0	0	19.28
			1	99	1	0	21.45
		16QAM	1	0	0	0	18.73
			1	99	1	0	20.76
		64QAM	1	0	0	0	18.47
			1	99	1	0	19.79
21001	21199	QPSK	1	0	0	0	19.17
			1	99	1	0	21.07
		16QAM	1	0	0	0	18.52
			1	99	1	0	20.60
		64QAM	1	0	0	0	18.17
			1	99	1	0	19.51
21152	21350	QPSK	1	0	0	0	19.21
			1	99	1	0	21.64
		16QAM	1	0	0	0	18.52
			1	99	1	0	20.92
		64QAM	1	0	0	0	18.03
			1	99	1	0	19.87

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41C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	0	0	0	22.35
			1	99	1	0	20.72
		16QAM	1	0	0	0	21.49
			1	99	1	0	20.16
		64QAM	1	0	0	0	20.13
			1	99	1	0	19.52
40185	39987	QPSK	1	0	0	0	22.05
			1	99	1	0	12.55
		16QAM	1	0	0	0	21.33
			1	99	1	0	12.49
		64QAM	1	0	0	0	20.13
			1	99	1	0	12.39
40620	40422	QPSK	1	0	0	0	22.12
			1	99	1	0	11.98
		16QAM	1	0	0	0	20.89
			1	99	1	0	11.72
		64QAM	1	0	0	0	19.98
			1	99	1	0	11.38
41055	40857	QPSK	1	0	0	0	21.85
			1	99	1	0	12.21
		16QAM	1	0	0	0	20.89
			1	99	1	0	11.99
		64QAM	1	0	0	0	19.98
			1	99	1	0	11.56
41490	41292	QPSK	1	0	0	0	21.77
			1	99	1	0	11.25
		16QAM	1	0	0	0	19.98
			1	99	1	0	11.30
		64QAM	1	0	0	0	19.83
			1	99	1	0	11.28

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2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)
	802.11b 1Mbps	1	2412	12.82
		6	2437	14.06
		11	2462	14.87
	802.11g 6Mbps	1	2412	14.21
		6	2437	14.88
		11	2462	14.32
	802.11n-HT20 MCS0	1	2412	14.03
		6	2437	14.67
		11	2462	14.06
	802.11n-HT40 MCS0	3	2422	14.12
		6	2437	16.13
		9	2452	13.62

Bluetooth	Mode	Channel	Frequency (MHz)	Average Power (dBm)
	BR / EDR	0	2402	3.19
		39	2441	3.22
		78	2480	5.17
	BLE 1Mbps	0	2402	2.43
		19	2440	2.45
		39	2480	4.33
	BLE 2Mbps	0	2402	-0.35
		19	2440	-0.38
		39	2480	1.57
	BLE S2	0	2402	2.10
		19	2440	2.15
		39	2480	3.87
	BLE S8	0	2402	3.72
		19	2440	3.71
		39	2480	5.51

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5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)
	802.11a 6Mbps	36	5180	13.45
		40	5200	15.66
		44	5220	15.84
		48	5240	15.92
	802.11n-HT20 MCS0	36	5180	12.80
		40	5200	15.32
		44	5220	15.65
		48	5240	15.62
	802.11n-HT40 MCS0	38	5190	8.92
		46	5230	15.34
	802.11ac-VHT20 MCS0	36	5180	12.84
		40	5200	15.34
		44	5220	15.70
		48	5240	15.60
	802.11ac-VHT40 MCS0	38	5190	8.90
		46	5230	15.32
	802.11ac-VHT80 MCS0	42	5210	7.35

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5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)
	802.11a 6Mbps	52	5260	15.68
		56	5280	15.70
		60	5300	15.90
		64	5320	14.65
	802.11n-HT20 MCS0	52	5260	15.80
		56	5280	15.60
		60	5300	15.65
		64	5320	13.43
	802.11n-HT40 MCS0	54	5270	14.76
		62	5310	9.12
	802.11ac-VHT20 MCS0	52	5260	15.74
		56	5280	15.57
		60	5300	15.66
		64	5320	13.42
	802.11ac-VHT40 MCS0	54	5270	15.28
		62	5310	10.40
	802.11ac-VHT80 MCS0	58	5290	9.46

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5.6GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)
	802.11a 6Mbps	100	5500	14.26
		116	5580	14.62
		124	5620	16.78
		132	5660	16.38
		140	5700	14.38
		144	5720	16.45
	802.11n-HT20 MCS0	100	5500	14.18
		116	5580	14.40
		124	5620	15.83
		132	5660	15.40
		140	5700	14.25
		144	5720	15.47
	802.11n-HT40 MCS0	102	5510	13.71
		110	5550	13.90
		126	5630	16.10
		134	5670	13.72
		142	5710	15.53
	802.11ac-VHT20 MCS0	100	5500	14.14
		116	5580	14.42
		124	5620	15.78
		132	5660	15.38
		140	5700	13.34
		144	5720	15.44
	802.11ac-VHT40 MCS0	102	5510	12.78
		110	5550	13.92
		126	5630	15.20
		134	5670	15.48
		142	5710	14.77
	802.11ac-VHT80 MCS0	106	5530	10.54
		122	5610	14.22
		138	5690	13.40

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5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)
	802.11a 6Mbps	149	5745	17.45
		157	5785	17.52
		165	5825	16.82
	802.11n-HT20 MCS0	149	5745	16.48
		157	5785	16.56
		165	5825	15.82
	802.11n-HT40 MCS0	151	5755	16.68
		159	5795	16.64
	802.11ac-VHT20 MCS0	149	5745	16.34
		157	5785	16.56
		165	5825	15.87
	802.11ac-VHT40 MCS0	151	5755	15.68
		159	5795	15.82
	802.11ac-VHT80 MCS0	155	5775	14.64

FCC SAR Test Report

<Verified Maximum Mode Conducted Power>

Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
Maximum Burst-Averaged Output Power						
GSM (GMSK, 1Tx-slot)	31.84	31.89	31.89	29.25	29.29	29.39
GPRS (GMSK, 1Tx-slot)	31.79	31.83	31.91	29.17	29.31	29.33
GPRS (GMSK, 2Tx-slot)	30.33	30.21	30.40	27.74	27.80	27.90
GPRS (GMSK, 3Tx-slot)	27.33	27.33	27.43	26.04	26.28	26.33
GPRS (GMSK, 4Tx-slot)	25.26	25.29	25.32	24.00	24.08	24.13
EDGE (8PSK, 1Tx-slot)	25.82	25.90	25.97	25.75	25.70	25.82
EDGE (8PSK, 2Tx-slot)	24.73	24.56	24.76	23.82	23.59	23.92
EDGE (8PSK, 3Tx-slot)	22.43	22.61	22.56	21.66	21.78	21.88
EDGE (8PSK, 4Tx-slot)	20.93	20.83	20.81	20.53	20.69	20.70
Maximum Frame-Averaged Output Power						
GSM (GMSK, 1Tx-slot)	22.84	22.89	22.89	20.25	20.29	20.39
GPRS (GMSK, 1Tx-slot)	22.79	22.83	22.91	20.17	20.31	20.33
GPRS (GMSK, 2Tx-slot)	24.33	24.21	24.40	21.74	21.80	21.90
GPRS (GMSK, 3Tx-slot)	23.07	23.07	23.17	21.78	22.02	22.07
GPRS (GMSK, 4Tx-slot)	22.26	22.29	22.32	21.00	21.08	21.13
EDGE (8PSK, 1Tx-slot)	16.82	16.90	16.97	16.75	16.70	16.82
EDGE (8PSK, 2Tx-slot)	18.73	18.56	18.76	17.82	17.59	17.92
EDGE (8PSK, 3Tx-slot)	18.17	18.35	18.30	17.40	17.52	17.62
EDGE (8PSK, 4Tx-slot)	17.93	17.83	17.81	17.53	17.69	17.70

Band	WCDMA Band II			WCDMA Band IV			WCDMA Band V			3GPP MPR (dB)
Channel	9262	9400	9538	1312	1413	1513	4132	4182	4233	
Frequency (MHz)	1852.4	1880.0	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6	
RMC 12.2K	21.63	21.49	21.71	21.26	21.34	21.13	23.37	23.31	23.42	-

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18700	18900	19100		18700	18900	19100		18700	18900	19100	
2 / 20M	1	0	21.10	21.02	21.12	0	20.31	20.32	20.28	1	19.12	19.16	19.24	2
	1	50	21.04	20.98	20.99	0	20.18	20.10	20.30	1	19.18	18.98	19.15	2
	1	99	20.99	20.97	20.99	0	20.16	20.23	20.31	1	19.16	19.05	19.34	2
	50	0	20.04	20.02	20.25	1	19.11	18.88	19.20	2	18.11	18.03	17.96	3
	50	25	20.12	20.04	20.06	1	19.01	19.08	19.16	2	18.01	17.93	18.10	3
	50	50	19.90	19.88	20.14	1	19.04	18.90	19.13	2	18.05	18.03	18.05	3
	100	0	20.21	20.07	20.21	1	19.16	18.99	19.01	2	18.11	17.88	18.20	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20050	20175	20300		20050	20175	20300		20050	20175	20300	
4 / 20M	1	0	20.59	20.61	20.47	0	19.67	19.74	19.61	1	18.61	18.75	18.67	2
	1	50	20.72	20.74	20.68	0	19.78	19.77	19.82	1	18.80	18.73	18.74	2
	1	99	20.49	20.59	20.47	0	19.71	19.78	19.73	1	18.63	18.58	18.67	2
	50	0	19.68	19.71	19.78	1	18.73	18.63	18.78	2	17.72	17.72	17.61	3
	50	25	19.82	19.84	19.70	1	18.66	18.72	18.72	2	17.68	17.69	17.62	3
	50	50	19.59	19.63	19.74	1	18.66	18.68	18.70	2	17.70	17.73	17.64	3
	100	0	19.80	19.82	19.68	1	18.84	18.74	18.70	2	17.84	17.71	17.84	3

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LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 20450	Mid CH 20525	High CH 20600		Low CH 20450	Mid CH 20525	High CH 20600		Low CH 20450	Mid CH 20525	High CH 20600	
			829.0 MHz	836.5 MHz	844.0 MHz		829.0 MHz	836.5 MHz	844.0 MHz		829.0 MHz	836.5 MHz	844.0 MHz	
5 / 10M	1	0	22.87	22.67	22.75	0	22.14	22.06	22.17	1	20.95	20.87	20.98	2
	1	24	22.72	22.40	22.60	0	21.82	21.86	21.79	1	20.75	20.79	20.69	2
	1	49	23.10	22.87	23.10	0	22.42	22.10	22.30	1	21.15	21.22	21.21	2
	25	0	21.95	21.78	21.80	1	20.69	20.61	20.57	2	19.76	19.59	19.52	3
	25	12	21.74	21.81	21.71	1	20.82	20.80	20.70	2	19.77	19.84	19.83	3
	25	25	21.93	21.76	21.90	1	20.86	20.78	20.89	2	19.96	19.79	19.72	3
	50	0	21.79	21.77	21.70	1	20.87	20.70	20.78	2	19.83	19.81	19.80	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 20850	Mid CH 21100	High CH 21350		Low CH 20850	Mid CH 21100	High CH 21350		Low CH 20850	Mid CH 21100	High CH 21350	
			2510.0 MHz	2535.0 MHz	2560.0 MHz		2510.0 MHz	2535.0 MHz	2560.0 MHz		2510.0 MHz	2535.0 MHz	2560.0 MHz	
7 / 20M	1	0	21.61	21.66	21.34	0	20.79	20.93	20.64	1	19.66	19.83	19.66	2
	1	50	21.44	21.55	21.32	0	20.75	20.80	20.75	1	19.61	19.54	19.46	2
	1	99	21.55	21.60	21.43	0	20.77	20.97	20.80	1	19.57	19.59	19.63	2
	50	0	20.40	20.63	20.49	1	19.55	19.45	19.52	2	18.55	18.60	18.28	3
	50	25	20.56	20.61	20.38	1	19.36	19.56	19.39	2	18.33	18.38	18.30	3
	50	50	20.31	20.42	20.43	1	19.41	19.40	19.38	2	18.47	18.58	18.35	3
	100	0	20.54	20.55	20.42	1	19.56	19.52	19.29	2	18.49	18.39	18.46	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 23060	Mid CH 23095	High CH 23130		Low CH 23060	Mid CH 23095	High CH 23130		Low CH 23060	Mid CH 23095	High CH 23130	
			704.0 MHz	707.5 MHz	711.0 MHz		704.0 MHz	707.5 MHz	711.0 MHz		704.0 MHz	707.5 MHz	711.0 MHz	
12 / 10M	1	0	23.12	22.99	22.96	0	22.09	22.02	21.99	1	21.24	21.09	21.01	2
	1	24	22.86	22.63	22.75	0	21.97	21.93	21.82	1	20.86	20.80	20.69	2
	1	49	22.45	22.21	22.30	0	22.03	21.72	21.88	1	20.97	20.87	20.80	2
	25	0	22.28	22.16	22.17	1	21.08	21.03	20.95	2	20.17	20.09	19.99	3
	25	12	21.83	21.87	21.69	1	21.04	20.96	20.89	2	20.04	19.93	19.89	3
	25	25	21.87	21.76	21.77	1	20.99	20.80	20.80	2	19.89	19.82	19.76	3
	50	0	21.89	21.82	21.69	1	21.19	21.01	21.07	2	20.31	20.17	20.16	3

LTE Band / BW	RB Size	RB Offset	QPSK	3GPP MPR (dB)	16QAM	3GPP MPR (dB)	64QAM	3GPP MPR (dB)
			Mid CH 23230		Mid CH 23230		Mid CH 23230	
			782.0 MHz		782.0 MHz		782.0 MHz	
13 / 10M	1	0	23.55	0	22.72	1	21.79	2
	1	24	23.29	0	22.63	1	21.53	2
	1	49	23.37	0	22.52	1	21.64	2
	25	0	22.57	1	21.57	2	20.60	3
	25	12	22.54	1	21.58	2	20.63	3
	25	25	22.50	1	21.48	2	20.49	3
	50	0	22.62	1	21.57	2	20.67	3

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LTE Band / BW	RB Size	RB Offset	QPSK	3GPP MPR (dB)	16QAM	3GPP MPR (dB)	64QAM	3GPP MPR (dB)
			Mid CH 23330		Mid CH 23330		Mid CH 23330	
			793.0 MHz		793.0 MHz		793.0 MHz	
14 / 10M	1	0	23.43	0	22.26	1	21.23	2
	1	24	22.86	0	22.69	1	21.70	2
	1	49	22.90	0	22.29	1	21.44	2
	25	0	22.74	1	21.68	2	20.67	3
	25	12	22.55	1	21.61	2	20.60	3
	25	25	22.44	1	21.53	2	20.54	3
	50	0	21.56	1	21.55	2	20.61	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 23780	Mid CH 23790	High CH 23800		Low CH 23780	Mid CH 23790	High CH 23800		Low CH 23780	Mid CH 23790	High CH 23800	
			709.0 MHz	710.0 MHz	711.0 MHz		709.0 MHz	710.0 MHz	711.0 MHz		709.0 MHz	710.0 MHz	711.0 MHz	
17 / 10M	1	0	22.66	22.51	23.00	0	21.96	21.93	22.45	1	20.82	20.79	21.31	2
	1	24	22.87	22.60	23.21	0	21.93	22.02	22.36	1	20.80	20.89	21.20	2
	1	49	21.77	21.59	22.23	0	21.23	20.96	21.57	1	20.01	20.13	20.53	2
	25	0	21.93	21.81	22.28	1	20.78	20.75	21.12	2	19.84	19.72	20.06	3
	25	12	21.70	21.82	22.13	1	20.90	20.93	21.24	2	19.90	20.02	20.42	3
	25	25	21.85	21.73	22.24	1	20.82	20.79	21.31	2	19.97	19.85	20.19	3
	50	0	21.29	21.32	21.66	1	20.50	20.38	20.87	2	19.55	19.58	19.98	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 26140	Mid CH 26365	High CH 26590		Low CH 26140	Mid CH 26365	High CH 26590		Low CH 26140	Mid CH 26365	High CH 26590	
			1860.0 MHz	1882.5 MHz	1905.0 MHz		1860.0 MHz	1882.5 MHz	1905.0 MHz		1860.0 MHz	1882.5 MHz	1905.0 MHz	
25 / 20M	1	0	20.89	21.10	20.79	0	20.06	20.22	19.96	1	18.99	19.26	18.98	2
	1	50	20.86	20.91	20.77	0	20.10	20.19	20.05	1	18.97	19.02	18.87	2
	1	99	20.33	20.58	20.28	0	19.62	19.72	19.50	1	18.69	18.73	18.58	2
	50	0	19.82	19.93	19.80	1	18.77	18.83	18.77	2	17.79	17.90	17.71	3
	50	25	19.97	20.02	19.78	1	18.90	18.98	18.86	2	17.93	18.06	17.71	3
	50	50	19.77	19.90	19.82	1	18.80	19.01	18.78	2	17.84	17.95	17.71	3
	100	0	20.02	20.13	19.77	1	19.02	19.02	18.88	2	18.06	18.06	17.96	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 26765	Mid CH 26865	High CH 26965		Low CH 26765	Mid CH 26865	High CH 26965		Low CH 26765	Mid CH 26865	High CH 26965	
			821.5 MHz	831.5 MHz	841.5 MHz		821.5 MHz	831.5 MHz	841.5 MHz		821.5 MHz	831.5 MHz	841.5 MHz	
26 / 15M	1	0	22.40	22.52	22.55	0	21.61	21.62	21.75	1	20.58	20.74	20.78	2
	1	37	22.54	22.32	22.63	0	21.62	21.61	21.74	1	20.43	20.42	20.54	2
	1	74	22.57	22.68	22.76	0	22.06	21.87	22.03	1	20.93	20.87	20.96	2
	36	0	21.66	21.58	21.74	1	20.49	20.47	20.67	2	19.55	19.50	19.69	3
	36	19	21.38	21.32	21.38	1	20.45	20.33	20.54	2	19.38	19.44	19.29	3
	36	39	21.34	21.29	21.55	1	20.02	20.18	20.22	2	19.13	19.05	19.12	3
	75	0	21.52	21.55	21.65	1	20.51	20.34	20.61	2	19.51	19.42	19.57	3

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LTE Band / BW	RB Size	RB Offset	QPSK	3GPP MPR (dB)	16QAM	3GPP MPR (dB)	64QAM	3GPP MPR (dB)
			Mid CH 27710		Mid CH 27710		Mid CH 27710	
			2310.0 MHz		2310.0 MHz		2310.0 MHz	
30 / 10M	1	0	22.43	0	21.51	1	20.45	2
	1	24	22.16	0	21.38	1	20.27	2
	1	49	22.41	0	21.62	1	20.57	2
	25	0	21.29	1	20.13	2	19.15	3
	25	12	21.28	1	20.27	2	19.26	3
	25	25	21.21	1	20.20	2	19.24	3
	50	0	21.28	1	20.19	2	19.24	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 37850	Mid CH 38000	High CH 38150		Low CH 37850	Mid CH 38000	High CH 38150		Low CH 37850	Mid CH 38000	High CH 38150	
			2580.0 MHz	2595.0 MHz	2610.0 MHz		2580.0 MHz	2595.0 MHz	2610.0 MHz		2580.0 MHz	2595.0 MHz	2610.0 MHz	
38 / 20M	1	0	21.59	21.60	21.49	0	20.68	20.74	20.64	1	19.34	19.47	19.42	2
	1	50	21.61	21.60	21.59	0	20.87	20.85	20.93	1	19.45	19.35	19.41	2
	1	99	21.60	21.69	21.60	0	20.68	20.74	20.72	1	19.44	19.38	19.50	2
	50	0	20.51	20.53	20.63	1	19.57	19.46	19.64	2	18.55	18.54	18.46	3
	50	25	20.72	20.76	20.66	1	19.69	19.74	19.77	2	18.74	18.74	18.70	3
	50	50	20.61	20.67	20.75	1	19.75	19.76	19.81	2	18.79	18.81	18.75	3
	100	0	20.71	20.74	20.64	1	19.74	19.63	19.62	2	18.79	18.65	18.81	3

LTE Band / BW	RB Size	RB Offset	QPSK					3GPP MPR (dB)	16QAM					3GPP MPR (dB)
			L-CH 39750	M-CH 40185	M-CH 40620	M-CH 41055	H-CH 41490		L-CH 39750	M-CH 40185	M-CH 40620	M-CH 41055	H-CH 41490	
			2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz		2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
41 / 20M	1	0	22.36	22.32	22.29	22.17	22.18	0	21.35	21.46	21.40	21.13	21.27	1
	1	50	22.05	22.13	22.13	21.89	22.00	0	21.35	21.37	21.55	21.18	21.22	1
	1	99	21.58	21.66	21.66	21.34	21.43	0	20.91	21.08	21.14	20.93	20.89	1
	50	0	21.19	21.27	21.48	21.16	21.24	1	20.33	20.20	20.50	20.15	20.24	2
	50	25	21.33	21.35	21.35	21.22	21.10	1	20.20	20.37	20.43	20.20	20.21	2
	50	50	21.01	21.09	21.33	20.99	21.08	1	20.20	20.16	20.37	20.07	20.16	2
	100	0	21.29	21.25	21.37	21.15	21.15	1	20.33	20.26	20.26	20.08	20.11	2

LTE Band / BW	RB Size	RB Offset	64QAM					3GPP MPR (dB)
			L-CH 39750	M-CH 40185	M-CH 40620	M-CH 41055	H-CH 41490	
			2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
41 / 20M	1	0	19.95	20.09	20.15	19.89	20.02	2
	1	50	20.05	19.95	20.10	19.96	19.84	2
	1	99	19.31	19.30	19.57	19.25	19.35	2
	50	0	19.39	19.41	19.32	19.20	19.23	3
	50	25	19.22	19.24	19.39	19.30	19.28	3
	50	50	19.18	19.26	19.26	18.99	19.07	3
	100	0	19.24	19.11	19.41	19.15	19.13	3

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LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 132072	Mid CH 132322	High CH 132572		Low CH 132072	Mid CH 132322	High CH 132572		Low CH 132072	Mid CH 132322	High CH 132572	
			1720.0 MHz	1745.0 MHz	1770.0 MHz		1720.0 MHz	1745.0 MHz	1770.0 MHz		1720.0 MHz	1745.0 MHz	1770.0 MHz	
66 / 20M	1	0	20.30	20.33	20.20	0	19.50	19.68	19.52	1	18.31	18.52	18.48	2
	1	50	20.53	20.68	20.58	0	19.51	19.60	19.68	1	18.49	18.46	18.51	2
	1	99	20.29	20.44	20.34	0	19.58	19.82	19.78	1	18.58	18.70	18.81	2
	50	0	19.16	19.42	19.37	1	18.28	18.22	18.42	2	17.33	17.42	17.23	3
	50	25	19.34	19.36	19.33	1	17.69	17.93	17.89	2	17.19	17.28	17.33	3
	50	50	19.03	19.18	19.32	1	17.91	17.94	18.05	2	17.20	17.35	17.25	3
	100	0	19.31	19.36	19.34	1	18.28	18.28	18.18	2	17.24	17.18	17.38	3

LTE Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH 133222	Mid CH 133322	High CH 133372		Low CH 133222	Mid CH 133322	High CH 133372		Low CH 133222	Mid CH 133322	High CH 133372	
			673 MHz	683 MHz	688 MHz		673 MHz	683 MHz	688 MHz		673 MHz	683 MHz	688 MHz	
71 / 20M	1	0	20.95	21.19	21.07	0	19.46	19.80	19.68	1	19.13	19.55	19.52	2
	1	50	21.29	21.55	21.54	0	20.25	20.48	20.62	1	19.32	19.43	19.54	2
	1	99	21.48	21.84	21.75	0	20.62	20.98	20.98	1	19.34	19.62	19.73	2
	50	0	19.98	20.27	20.44	1	19.41	19.50	19.78	2	18.33	18.57	18.46	3
	50	25	20.27	20.48	20.42	1	19.10	19.45	19.50	2	18.19	18.44	18.45	3
	50	50	20.00	20.52	20.30	1	19.20	19.44	19.56	2	18.34	18.63	18.57	3
	100	0	20.17	20.39	20.34	1	19.10	19.21	19.20	2	18.39	18.45	18.71	3

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)
	802.11b 1Mbps	1	2412	12.71
		6	2437	14.0
		11	2462	14.8

Bluetooth	Mode	Channel	Frequency (MHz)	Average Power (dBm)
	BR / EDR	0	2402	3.09
		39	2441	2.92
		78	2480	5.13

5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)
	802.11a 6Mbps	36	5180	13.38
		40	5200	15.37
		44	5220	15.65
		48	5240	15.9

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5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)
	802.11a 6Mbps	52	5260	15.51
		56	5280	15.64
		60	5300	15.84
		64	5320	14.52

5.6GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)
	802.11a 6Mbps	100	5500	14.0
		116	5580	14.48
		124	5620	16.64
		132	5660	16.21
		140	5700	14.26
		144	5720	16.28

5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)
	802.11a 6Mbps	149	5745	17.11
		157	5785	17.39
		165	5825	16.66

4.6 SAR Testing Results

4.6.1 SAR Test Reduction Considerations

<KDB 447498 D01, General RF Exposure Guidance>

Testing of other required channels within the operating mode of a frequency band is not required when the reported SAR for the mid-band or highest output power channel is:

- (1) ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
- (2) ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- (3) ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

<KDB 941225 D01, 3G SAR Measurement Procedures>

The mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

<KDB 941225 D05, SAR Evaluation Considerations for LTE Devices>

(1) QPSK with 1 RB and 50% RB allocation

Start with the largest channel bandwidth and measure SAR, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

(2) QPSK with 100% RB allocation

SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

(3) Higher order modulations

SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> 1/2$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

(4) Other channel bandwidth

SAR is required when the highest maximum output power of the smaller channel bandwidth is $> 1/2$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

<KDB 248227 D01, SAR Guidance for Wi-Fi Transmitters>

- (1) For handsets operating next to ear, hotspot mode or mini-tablet configurations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When the reported SAR of initial test position is ≤ 0.4 W/kg, SAR testing for remaining test positions is not required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
- (2) For WLAN 2.4 GHz, the highest measured maximum output power channel for DSSS was selected for SAR measurement. When the reported SAR is ≤ 0.8 W/kg, no further SAR testing is required. Otherwise, SAR is evaluated at the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel. For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is ≤ 1.2 W/kg.
- (3) For WLAN 5 GHz, the initial test configuration was selected according to the transmission mode with the highest maximum output power. When the reported SAR of initial test configuration is > 0.8 W/kg, SAR is required for the subsequent highest measured output power channel until the reported SAR result is ≤ 1.2 W/kg or all required channels are measured. For other transmission modes, SAR is not required when the highest reported SAR for initial test configuration is adjusted by the ratio of subsequent test configuration to initial test configuration specified maximum output power and it is ≤ 1.2 W/kg.
- (4) For WLAN MIMO mode, the power-based standalone SAR test exclusion or the sum of SAR provision in KDB 447498 to determine simultaneous transmission SAR test exclusion should be applied. Otherwise, SAR for MIMO mode will be measured with all applicable antennas transmitting simultaneously at the specified maximum output power of MIMO operation.

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4.6.2 SAR Results for Head Exposure Condition

Plot No.	Band	Mode	Test Position	Ch.	Sample	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
1	GSM850	GPRS10	Right Cheek	128	1	30.5	30.34	-0.18	0.427	1.04	0.44
	GSM850	GPRS10	Right Cheek	128	2	30.5	30.34	-0.01	0.326	1.04	0.34
2	GSM1900	GPRS11	Right Cheek	810	1	26.5	26.38	0.01	0.086	1.03	0.09
	GSM1900	GPRS11	Right Cheek	810	2	26.5	26.38	0.07	0.083	1.03	0.09
3	WCDMA II	RMC12.2K	Right Cheek	9538	1	22.0	21.73	0.09	0.116	1.06	0.12
	WCDMA II	RMC12.2K	Right Cheek	9538	2	22.0	21.73	0.07	0.113	1.06	0.12
4	WCDMA IV	RMC12.2K	Right Cheek	1312	1	21.5	21.33	-0.04	0.166	1.04	0.17
	WCDMA IV	RMC12.2K	Right Cheek	1312	2	21.5	21.33	0.04	0.163	1.04	0.17
5	WCDMA V	RMC12.2K	Right Cheek	4132	1	24.0	23.43	0.11	0.360	1.14	0.41
	WCDMA V	RMC12.2K	Right Cheek	4132	2	24.0	23.43	0.07	0.355	1.14	0.40

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
6	LTE 5	QPSK10M	Left Cheek	20525	1	49	1	-	24.0	23.03	0.09	0.077	1.00	1.25	0.10
	LTE 5	QPSK10M	Left Cheek	20525	1	49	2	-	24.0	23.03	0.01	0.065	1.00	1.25	0.08
7	LTE 7	QPSK20M	Left Cheek	21100	1	0	1	-	22.0	21.68	-0.06	0.168	1.00	1.08	0.18
	LTE 7	QPSK20M	Left Cheek	21100	1	0	2	-	22.0	21.68	-0.01	0.151	1.00	1.08	0.16
8	LTE 12	QPSK10M	Left Cheek	23060	1	0	1	-	23.5	23.23	0.04	0.019	1.00	1.06	0.02
	LTE 12	QPSK10M	Left Cheek	23060	1	0	2	-	23.5	23.23	0	0.016	1.00	1.06	0.02
9	LTE 13	QPSK10M	Right Cheek	23230	1	0	1	-	24.0	23.69	-0.06	0.069	1.00	1.07	0.07
	LTE 13	QPSK10M	Right Cheek	23230	1	0	2	-	24.0	23.69	0.01	0.037	1.00	1.07	0.04
10	LTE 14	QPSK10M	Right Cheek	23330	1	0	1	-	24.0	23.57	-0.11	0.078	1.00	1.10	0.09
	LTE 14	QPSK10M	Right Cheek	23330	1	0	2	-	24.0	23.57	-0.06	0.044	1.00	1.10	0.05
11	LTE 25	QPSK20M	Right Cheek	26590	1	0	1	-	21.5	20.89	0.03	0.130	1.00	1.15	0.15
	LTE 25	QPSK20M	Right Cheek	26590	1	0	2	-	21.5	20.89	0.04	0.126	1.00	1.15	0.15
12	LTE 26	QPSK15M	Left Cheek	26965	1	74	1	-	24.5	22.87	0.05	0.056	1.00	1.46	0.08
	LTE 26	QPSK15M	Left Cheek	26965	1	74	2	-	24.5	22.87	-0.07	0.050	1.00	1.46	0.07
13	LTE 30	QPSK10M	Left Cheek	27710	1	0	1	-	24.0	22.55	0	0.227	1.00	1.40	0.32
	LTE 30	QPSK10M	Left Cheek	27710	1	0	2	-	24.0	22.55	-0.02	0.213	1.00	1.40	0.30
14	LTE 41	QPSK20M	Left Cheek	41055	1	0	1	62.9	23.0	22.27	0.04	0.145	1.01	1.18	0.17
	LTE 41	QPSK20M	Left Cheek	41055	1	0	2	62.9	23.0	22.27	0	0.085	1.01	1.18	0.10
14	LTE CA 41C	QPSK20M	Left Cheek	PCC:41055 SCC:40857	PCC:1 SCC:0	PCC:0 SCC:0	1	62.9	23.0	21.85	0.07	0.121	1.01	1.30	0.16
15	LTE 66	QPSK20M	Right Cheek	132072	1	50	1	-	21.0	20.61	0.11	0.141	1.00	1.09	0.15
	LTE 66	QPSK20M	Right Cheek	132072	1	50	2	-	21.0	20.61	0	0.133	1.00	1.09	0.15
16	LTE 71	QPSK20M	Right Cheek	133222	1	50	1	-	23.0	21.69	0.09	0.259	1.00	1.35	0.35
	LTE 71	QPSK20M	Right Cheek	133222	1	50	2	-	23.0	21.69	-0.04	0.249	1.00	1.35	0.34

Plot No.	Band	Mode	Test Position	Ch.	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
17	WLAN2.4G	802.11b	Left Cheek	11	1	100	15.5	14.87	0.07	0.232	1.00	1.16	0.27
	WLAN2.4G	802.11b	Left Cheek	11	2	100	15.5	14.87	0.09	0.190	1.00	1.16	0.22
18	WLAN5G	802.11a	Left Cheek	60	1	97.2	16.0	15.90	0.04	0.554	1.03	1.02	0.58
	WLAN5G	802.11a	Left Cheek	60	2	97.2	16.0	15.90	-0.09	0.532	1.03	1.02	0.56
19	WLAN5G	802.11a	Left Cheek	144	1	97.2	17.0	16.45	0.09	0.476	1.03	1.14	0.56
	WLAN5G	802.11a	Left Cheek	144	2	97.2	17.0	16.45	0	0.442	1.03	1.14	0.52
20	WLAN5G	802.11a	Left Cheek	157	1	98.1	18.0	17.52	0.02	0.618	1.02	1.12	0.70
	WLAN5G	802.11a	Left Cheek	157	2	98.1	18.0	17.52	0.04	0.613	1.02	1.12	0.70
21	BT	GFSK	Left Cheek	78	1	76.8	6.0	5.17	0.09	0.047	1.30	1.21	0.07
	BT	GFSK	Left Cheek	78	2	76.8	6.0	5.17	0.02	0.045	1.30	1.21	0.07

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4.6.3 SAR Results for Body-worn Exposure Condition (Separation Distance is 1.0 cm Gap)

Plot No.	Band	Mode	Test Position	Ch.	Sample	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
22	GSM850	GPRS10	Rear Face	128	1	30.5	30.34	0.01	0.553	1.04	0.57
	GSM850	GPRS10	Rear Face	128	2	30.5	30.34	0.02	0.521	1.04	0.54
23	GSM1900	GPRS11	Rear Face	810	1	26.5	26.38	0.07	0.680	1.03	0.70
	GSM1900	GPRS11	Rear Face	810	2	26.5	26.38	-0.09	0.627	1.03	0.64
24	WCDMA II	RMC12.2K	Rear Face	9400	1	22.0	21.50	-0.07	0.941	1.12	1.06
	WCDMA II	RMC12.2K	Rear Face	9262	1	22.0	21.71	0	0.949	1.07	1.01
	WCDMA II	RMC12.2K	Rear Face	9538	1	22.0	21.73	-0.12	0.929	1.06	0.99
	WCDMA II	RMC12.2K	Rear Face	9400	2	22.0	21.50	-0.04	0.869	1.12	0.98
25	WCDMA IV	RMC12.2K	Rear Face	1312	1	21.5	21.33	0.12	1.050	1.04	1.09
	WCDMA IV	RMC12.2K	Rear Face	1413	1	21.5	21.39	0.02	0.983	1.03	1.01
	WCDMA IV	RMC12.2K	Rear Face	1513	1	21.5	21.15	0.07	0.969	1.08	1.05
	WCDMA IV	RMC12.2K	Rear Face	1312	2	21.5	21.33	0.03	1.030	1.04	1.07
26	WCDMA V	RMC12.2K	Rear Face	4132	1	24.0	23.43	-0.18	0.417	1.14	0.48
	WCDMA V	RMC12.2K	Rear Face	4132	2	24.0	23.43	0.08	0.391	1.14	0.45

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
27	LTE 5	QPSK10M	Rear Face	20525	1	49	1	-	24.0	23.03	-0.08	0.147	1.00	1.25	0.18
	LTE 5	QPSK10M	Rear Face	20525	1	49	2	-	24.0	23.03	0.03	0.119	1.00	1.25	0.15
28	LTE 7	QPSK20M	Rear Face	21350	1	0	1	-	22.0	21.50	-0.05	0.911	1.00	1.12	1.02
	LTE 7	QPSK20M	Rear Face	20850	1	0	1	-	22.0	21.63	0.03	0.538	1.00	1.09	0.59
	LTE 7	QPSK20M	Rear Face	21100	1	0	1	-	22.0	21.68	0.12	0.770	1.00	1.08	0.83
	LTE 7	QPSK20M	Rear Face	21350	1	0	2	-	22.0	21.50	0	0.823	1.00	1.12	0.92
29	LTE 12	QPSK10M	Rear Face	23060	1	0	1	-	23.5	23.23	0.04	0.062	1.00	1.06	0.07
	LTE 12	QPSK10M	Rear Face	23060	1	0	2	-	23.5	23.23	-0.09	0.061	1.00	1.06	0.06
30	LTE 13	QPSK10M	Rear Face	23230	1	0	1	-	24.0	23.69	0.02	0.151	1.00	1.07	0.16
	LTE 13	QPSK10M	Rear Face	23230	1	0	2	-	24.0	23.69	0.01	0.129	1.00	1.07	0.14
31	LTE 14	QPSK10M	Rear Face	23330	1	0	1	-	24.0	23.57	0.06	0.241	1.00	1.10	0.27
	LTE 14	QPSK10M	Rear Face	23330	1	0	2	-	24.0	23.57	-0.05	0.129	1.00	1.10	0.14
32	LTE 25	QPSK20M	Rear Face	26365	1	0	1	-	21.5	21.18	0.01	0.819	1.00	1.08	0.88
	LTE 25	QPSK20M	Rear Face	26140	1	0	1	-	21.5	21.05	0.09	0.590	1.00	1.11	0.65
	LTE 25	QPSK20M	Rear Face	26590	1	0	1	-	21.5	20.89	0.02	0.828	1.00	1.15	0.95
	LTE 25	QPSK20M	Rear Face	26590	1	0	2	-	21.5	20.89	0.07	0.824	1.00	1.15	0.95
33	LTE 26	QPSK15M	Rear Face	26865	1	74	1	-	24.5	22.84	0.1	0.144	1.00	1.47	0.21
	LTE 26	QPSK15M	Rear Face	26865	1	74	2	-	24.5	22.84	-0.05	0.118	1.00	1.47	0.17
34	LTE 30	QPSK10M	Rear Face	27710	1	0	1	-	24.0	22.55	0.06	0.652	1.00	1.40	0.91
	LTE 30	QPSK10M	Rear Face	27710	1	0	2	-	24.0	22.55	-0.01	0.633	1.00	1.40	0.88
35	LTE 41	QPSK20M	Rear Face	40185	1	0	1	62.9	23.0	22.40	0.07	0.669	1.01	1.15	0.77
	LTE 41	QPSK20M	Rear Face	40185	1	0	2	62.9	23.0	22.40	-0.05	0.619	1.01	1.15	0.72
	LTE CA 41C	QPSK20M	Rear Face	PCC:40185 SCC:39987	PCC:1 SCC:0	PCC:0 SCC:0	1	62.9	23.0	22.05	0	0.555	1.01	1.24	0.70
36	LTE 66	QPSK20M	Rear Face	132072	1	50	1	-	21.0	20.61	0.03	0.877	1.00	1.09	0.96
	LTE 66	QPSK20M	Rear Face	132322	1	50	1	-	21.0	20.74	-0.17	0.776	1.00	1.06	0.82
	LTE 66	QPSK20M	Rear Face	132572	1	50	1	-	21.0	20.70	-0.15	0.723	1.00	1.07	0.77
	LTE 66	QPSK20M	Rear Face	132072	1	50	2	-	21.0	20.61	-0.02	0.819	1.00	1.09	0.90
37	LTE 71	QPSK20M	Rear Face	133372	1	50	1	-	23.0	21.69	-0.01	0.384	1.00	1.35	0.52
	LTE 71	QPSK20M	Rear Face	133372	1	50	2	-	23.0	21.69	-0.07	0.281	1.00	1.35	0.38

Plot No.	Band	Mode	Test Position	Ch.	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
38	WLAN2.4G	802.11b	Front Face	11	1	100	15.5	14.87	0	0.045	1.00	1.16	0.05
	WLAN2.4G	802.11b	Front Face	11	2	100	15.5	14.87	0	0.036	1.00	1.16	0.04

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Plot No.	Band	Mode	Test Position	Ch.	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
39	WLAN5G	802.11a	Rear Face	60	1	97.2	16.0	15.90	-0.07	0.717	1.03	1.02	0.75
	WLAN5G	802.11a	Rear Face	60	2	97.2	16.0	15.90	-0.05	0.423	1.03	1.02	0.45
40	WLAN5G	802.11a	Rear Face	144	1	97.2	17.0	16.45	-0.04	0.496	1.03	1.14	0.58
	WLAN5G	802.11a	Rear Face	144	2	97.2	17.0	16.45	-0.04	0.423	1.03	1.14	0.49
41	WLAN5G	802.11a	Rear Face	149	1	98.1	18.0	17.45	-0.02	0.617	1.02	1.14	0.71
	WLAN5G	802.11a	Rear Face	149	2	98.1	18.0	17.45	0.04	0.580	1.02	1.14	0.67
42	BT	GFSK	Rear Face	78	1	76.8	6.0	5.17	0.08	0.0093	1.30	1.21	0.01
	BT	GFSK	Rear Face	78	2	76.8	6.0	5.17	0.03	0.00928	1.30	1.21	0.01

4.6.4 SAR Results for Hotspot Exposure Condition (Separation Distance is 1.0 cm Gap)

Plot No.	Band	Mode	Test Position	Ch.	Sample	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
43	GSM850	GPRS10	Rear Face	128	1	30.5	30.34	0.01	0.553	1.04	0.57
	GSM850	GPRS10	Rear Face	128	2	30.5	30.34	0.02	0.521	1.04	0.54
44	GSM1900	GPRS11	Rear Face	810	1	26.5	26.38	0.07	0.680	1.03	0.70
	GSM1900	GPRS11	Rear Face	810	2	26.5	26.38	-0.09	0.627	1.03	0.64
45	WCDMA II	RMC12.2K	Rear Face	9400	1	22.0	21.50	-0.07	0.941	1.12	1.06
	WCDMA II	RMC12.2K	Rear Face	9262	1	22.0	21.71	0	0.949	1.07	1.01
	WCDMA II	RMC12.2K	Rear Face	9538	1	22.0	21.73	-0.12	0.929	1.06	0.99
	WCDMA II	RMC12.2K	Rear Face	9400	2	22.0	21.50	-0.04	0.869	1.12	0.98
46	WCDMA IV	RMC12.2K	Rear Face	1312	1	21.5	21.33	0.12	1.050	1.04	1.09
	WCDMA IV	RMC12.2K	Rear Face	1413	1	21.5	21.39	0.02	0.983	1.03	1.01
	WCDMA IV	RMC12.2K	Rear Face	1513	1	21.5	21.15	0.07	0.969	1.08	1.05
	WCDMA IV	RMC12.2K	Rear Face	1312	2	21.5	21.33	0.03	1.030	1.04	1.07
47	WCDMA V	RMC12.2K	Rear Face	4132	1	24.0	23.43	-0.18	0.417	1.14	0.48
	WCDMA V	RMC12.2K	Rear Face	4132	2	24.0	23.43	0.08	0.391	1.14	0.45

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
48	LTE 5	QPSK10M	Rear Face	20525	1	49	1	-	24.0	23.03	-0.08	0.147	1.00	1.25	0.18
	LTE 5	QPSK10M	Rear Face	20525	1	49	2	-	24.0	23.03	0.03	0.119	1.00	1.25	0.15
49	LTE 7	QPSK20M	Bottom Side	21350	1	0	1	-	22.0	21.50	0.10	0.907	1.00	1.12	1.02
	LTE 7	QPSK20M	Bottom Side	20850	1	0	1	-	22.0	21.63	-0.02	0.587	1.00	1.09	0.64
	LTE 7	QPSK20M	Bottom Side	21100	1	0	1	-	22.0	21.68	-0.02	0.839	1.00	1.08	0.90
	LTE 7	QPSK20M	Bottom Side	21350	1	0	2	-	22.0	21.50	0.01	0.875	1.00	1.12	0.98
50	LTE 12	QPSK10M	Rear Face	23060	1	0	1	-	23.5	23.23	0.04	0.062	1.00	1.06	0.07
	LTE 12	QPSK10M	Rear Face	23060	1	0	2	-	23.5	23.23	-0.09	0.061	1.00	1.06	0.06
51	LTE 13	QPSK10M	Rear Face	23230	1	0	1	-	24.0	23.69	0.02	0.151	1.00	1.07	0.16
	LTE 13	QPSK10M	Rear Face	23230	1	0	2	-	24.0	23.69	0.01	0.129	1.00	1.07	0.14
52	LTE 14	QPSK10M	Rear Face	23330	1	0	1	-	24.0	23.57	0.06	0.241	1.00	1.10	0.27
	LTE 14	QPSK10M	Rear Face	23330	1	0	2	-	24.0	23.57	-0.05	0.129	1.00	1.10	0.14
	LTE 25	QPSK20M	Rear Face	26365	1	0	1	-	21.5	21.18	0.01	0.819	1.00	1.08	0.88
	LTE 25	QPSK20M	Rear Face	26140	1	0	1	-	21.5	21.05	0.09	0.590	1.00	1.11	0.65
53	LTE 25	QPSK20M	Rear Face	26590	1	0	1	-	21.5	20.89	0.02	0.828	1.00	1.15	0.95
	LTE 25	QPSK20M	Rear Face	26590	1	0	2	-	21.5	20.89	0.07	0.824	1.00	1.15	0.95
54	LTE 26	QPSK15M	Rear Face	26865	1	74	1	-	24.5	22.84	0.1	0.144	1.00	1.47	0.21
	LTE 26	QPSK15M	Rear Face	26865	1	74	2	-	24.5	22.84	-0.05	0.118	1.00	1.47	0.17
55	LTE 30	QPSK10M	Bottom Side	27710	1	0	1	-	24.0	22.55	-0.08	0.719	1.00	1.40	1.00
	LTE 30	QPSK10M	Bottom Side	27710	1	0	2	-	24.0	22.55	0.01	0.689	1.00	1.40	0.96
56	LTE 41	QPSK20M	Bottom Side	40620	1	0	1	62.9	23.0	22.45	0.06	0.645	1.01	1.14	0.74
	LTE 41	QPSK20M	Bottom Side	40620	1	0	2	62.9	23.0	22.45	0.15	0.619	1.01	1.14	0.71
	LTE CA 41C	QPSK20M	Bottom Side	PCC:40620 SCC:40422	PCC:1 SCC:0	PCC:0 SCC:0	1	62.9	23.0	22.12	0.03	0.588	1.01	1.22	0.72
57	LTE 66	QPSK20M	Rear Face	132072	1	50	1	-	21.0	20.61	0.03	0.877	1.00	1.09	0.96

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Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 66	QPSK20M	Rear Face	132322	1	50	1	-	21.0	20.74	-0.17	0.776	1.00	1.06	0.82
	LTE 66	QPSK20M	Rear Face	132572	1	50	1	-	21.0	20.70	-0.15	0.723	1.00	1.07	0.77
	LTE 66	QPSK20M	Rear Face	132072	1	50	2	-	21.0	20.61	-0.02	0.819	1.00	1.09	0.90
58	LTE 71	QPSK20M	Rear Face	133372	1	50	1	-	23.0	21.69	-0.01	0.384	1.00	1.35	0.52
	LTE 71	QPSK20M	Rear Face	133372	1	50	2	-	23.0	21.69	-0.07	0.281	1.00	1.35	0.38

Plot No.	Band	Mode	Test Position	Ch.	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
59	WLAN2.4G	802.11b	Right Side	11	1	100	15.5	14.87	0.09	0.058	1.00	1.16	0.07
	WLAN2.4G	802.11b	Right Side	11	2	100	15.5	14.87	0.18	0.055	1.00	1.16	0.06
60	WLAN5G	802.11a	Right Side	48	1	97.2	16.0	15.92	-0.07	0.729	1.03	1.02	0.76
	WLAN5G	802.11a	Right Side	48	2	97.2	16.0	15.92	-0.15	0.706	1.03	1.02	0.74
61	WLAN5G	802.11a	Rear Face	149	1	98.1	18.0	17.45	-0.02	0.617	1.02	1.14	0.71
	WLAN5G	802.11a	Rear Face	149	2	98.1	18.0	17.45	0.04	0.580	1.02	1.14	0.67
62	BT	GFSK	Right Side	78	1	76.8	6.0	5.17	0.18	0.014	1.30	1.21	0.02
	BT	GFSK	Right Side	78	2	76.8	6.0	5.17	0.07	0.010	1.30	1.21	0.02

4.6.5 SAR Results for Extremity Exposure Condition (Separation Distance is 0 cm Gap)

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-10g (W/kg)
63	LTE 7	QPSK20M	Bottom Side	21350	1	0	1	-	22.0	21.50	-0.08	1.760	1.00	1.12	1.97
	LTE 7	QPSK20M	Bottom Side	21350	1	0	2	-	22.0	21.50	-0.17	1.580	1.00	1.12	1.77

Plot No.	Band	Mode	Test Position	Ch.	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-10g (W/kg)
64	WLAN5G	802.11a	Right Side	60	1	97.2	16.0	15.90	0.06	1.590	1.03	1.02	1.67
	WLAN5G	802.11a	Right Side	60	2	97.2	16.0	15.90	-0.13	1.070	1.03	1.02	1.11
65	WLAN5G	802.11a	Right Side	144	1	97.2	17.0	16.45	-0.07	1.050	1.03	1.14	1.23
	WLAN5G	802.11a	Right Side	144	2	97.2	17.0	16.45	0	0.958	1.03	1.14	1.12

4.6.6 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 , or when the original or repeated measurement is ≥ 1.45 W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

Band	Test Position	Ch.	Original Measured SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio	2nd Repeated SAR-1g (W/kg)	L/S Ratio	3rd Repeated SAR-1g (W/kg)	L/S Ratio
WCDMA II	Rear Face	9262	0.949	0.929	1.02	N/A	N/A	N/A	N/A
WCDMA IV	Rear Face	1312	1.05	1.01	1.04	N/A	N/A	N/A	N/A
LTE 7	Rear Face	21350	0.911	0.899	1.01	N/A	N/A	N/A	N/A

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4.6.7 Simultaneous Multi-band Transmission Evaluation

<SAR Summation Analysis>

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR_{1g} of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR_{1g} 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR_{1g} is greater than the SAR limit (SAR_{1g} 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

<Head>

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM850	Right Cheek	0.44	0.13	0.62	0.02	0.57	1.09
	Right Tilted	0.24	0.08	0.58	0.02	0.31	0.84
	Left Cheek	0.34	0.27	0.69	0.07	0.61	1.10
	Left Tilted	0.22	0.15	0.74	0.03	0.38	0.99
GSM1900	Right Cheek	0.09	0.13	0.62	0.02	0.21	0.73
	Right Tilted	0.07	0.08	0.58	0.02	0.15	0.67
	Left Cheek	0.13	0.27	0.69	0.07	0.40	0.90
	Left Tilted	0.11	0.15	0.74	0.03	0.27	0.88
WCDMA II	Right Cheek	0.12	0.13	0.62	0.02	0.25	0.77
	Right Tilted	0.05	0.08	0.58	0.02	0.12	0.65
	Left Cheek	0.09	0.27	0.69	0.07	0.36	0.85
	Left Tilted	0.07	0.15	0.74	0.03	0.22	0.84
WCDMA IV	Right Cheek	0.17	0.13	0.62	0.02	0.30	0.82
	Right Tilted	0.10	0.08	0.58	0.02	0.17	0.70
	Left Cheek	0.12	0.27	0.69	0.07	0.39	0.88
	Left Tilted	0.09	0.15	0.74	0.03	0.24	0.86
WCDMA V	Right Cheek	0.41	0.13	0.62	0.02	0.54	1.06
	Right Tilted	0.31	0.08	0.58	0.02	0.39	0.91
	Left Cheek	0.42	0.27	0.69	0.07	0.69	1.18
	Left Tilted	0.31	0.15	0.74	0.03	0.46	1.08
LTE Band 5	Right Cheek	0.32	0.13	0.62	0.02	0.44	0.96
	Right Tilted	0.34	0.08	0.58	0.02	0.42	0.94
	Left Cheek	0.10	0.27	0.69	0.07	0.36	0.86
	Left Tilted	0.29	0.15	0.74	0.03	0.45	1.06
LTE Band 7	Right Cheek	0.10	0.13	0.62	0.02	0.22	0.74
	Right Tilted	0.04	0.08	0.58	0.02	0.11	0.64
	Left Cheek	0.18	0.27	0.69	0.07	0.45	0.95
	Left Tilted	0.06	0.15	0.74	0.03	0.21	0.83
LTE Band 12	Right Cheek	0.24	0.13	0.62	0.02	0.36	0.88
	Right Tilted	0.18	0.08	0.58	0.02	0.25	0.78

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WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
	Left Cheek	0.02	0.27	0.69	0.07	0.29	0.79
	Left Tilted	0.22	0.15	0.74	0.03	0.37	0.99
LTE Band 13	Right Cheek	0.07	0.13	0.62	0.02	0.20	0.72
	Right Tilted	0.27	0.08	0.58	0.02	0.35	0.87
	Left Cheek	0.36	0.27	0.69	0.07	0.63	1.12
	Left Tilted	0.25	0.15	0.74	0.03	0.41	1.02
LTE Band 14	Right Cheek	0.09	0.13	0.62	0.02	0.21	0.73
	Right Tilted	0.23	0.08	0.58	0.02	0.31	0.83
	Left Cheek	0.33	0.27	0.69	0.07	0.60	1.10
	Left Tilted	0.21	0.15	0.74	0.03	0.37	0.98
LTE Band 25	Right Cheek	0.15	0.13	0.62	0.02	0.28	0.80
	Right Tilted	0.04	0.08	0.58	0.02	0.12	0.64
	Left Cheek	0.10	0.27	0.69	0.07	0.37	0.87
	Left Tilted	0.07	0.15	0.74	0.03	0.23	0.84
LTE Band 26	Right Cheek	0.42	0.13	0.62	0.02	0.54	1.06
	Right Tilted	0.28	0.08	0.58	0.02	0.35	0.88
	Left Cheek	0.08	0.27	0.69	0.07	0.35	0.85
	Left Tilted	0.23	0.15	0.74	0.03	0.38	1.00
LTE Band 30	Right Cheek	0.17	0.13	0.62	0.02	0.29	0.81
	Right Tilted	0.06	0.08	0.58	0.02	0.14	0.66
	Left Cheek	0.32	0.27	0.69	0.07	0.59	1.08
	Left Tilted	0.08	0.15	0.74	0.03	0.24	0.85
LTE Band 41	Right Cheek	0.06	0.13	0.62	0.02	0.19	0.71
	Right Tilted	0.04	0.08	0.58	0.02	0.12	0.64
	Left Cheek	0.17	0.27	0.69	0.07	0.44	0.94
	Left Tilted	0.05	0.15	0.74	0.03	0.20	0.82
LTE Band 66	Right Cheek	0.15	0.13	0.62	0.02	0.28	0.80
	Right Tilted	0.08	0.08	0.58	0.02	0.16	0.68
	Left Cheek	0.12	0.27	0.69	0.07	0.39	0.88
	Left Tilted	0.09	0.15	0.74	0.03	0.24	0.86
LTE Band 71	Right Cheek	0.35	0.13	0.62	0.02	0.48	1.00
	Right Tilted	0.20	0.08	0.58	0.02	0.27	0.80
	Left Cheek	0.31	0.27	0.69	0.07	0.57	1.07
	Left Tilted	0.18	0.15	0.74	0.03	0.34	0.95

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<Body Worn>

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM850	Front	0.20	0.05	0.36	0.02	0.26	0.59
	Back	0.57	0.07	0.75	0.01	0.65	1.34
GSM1900	Front	0.68	0.05	0.36	0.02	0.73	1.06
	Back	0.70	0.07	0.75	0.01	0.77	1.47
WCDMA II	Front	0.62	0.05	0.36	0.02	0.68	1.01
	Back	1.06	0.07	0.75	0.01	1.13	1.83
WCDMA IV	Front	0.46	0.05	0.36	0.02	0.52	0.85
	Back	1.09	0.07	0.75	0.01	1.17	1.86
WCDMA V	Front	0.35	0.05	0.36	0.02	0.40	0.74
	Back	0.48	0.07	0.75	0.01	0.55	1.24
LTE Band 5	Front	0.33	0.05	0.36	0.02	0.38	0.71
	Back	0.18	0.07	0.75	0.01	0.26	0.95
LTE Band 7	Front	0.97	0.05	0.36	0.02	1.03	1.36
	Back	1.02	0.07	0.75	0.01	1.10	1.79
LTE Band 12	Front	0.28	0.05	0.36	0.02	0.33	0.67
	Back	0.07	0.07	0.75	0.01	0.14	0.84
LTE Band 13	Front	0.25	0.05	0.36	0.02	0.30	0.63
	Back	0.16	0.07	0.75	0.01	0.24	0.93
LTE Band 14	Front	0.26	0.05	0.36	0.02	0.31	0.64
	Back	0.27	0.07	0.75	0.01	0.34	1.04
LTE Band 25	Front	0.64	0.05	0.36	0.02	0.69	1.02
	Back	0.95	0.07	0.75	0.01	1.03	1.72
LTE Band 26	Front	0.30	0.05	0.36	0.02	0.35	0.68
	Back	0.21	0.07	0.75	0.01	0.29	0.98
LTE Band 30	Front	0.82	0.05	0.36	0.02	0.87	1.20
	Back	0.91	0.07	0.75	0.01	0.99	1.68
LTE Band 41	Front	0.57	0.05	0.36	0.02	0.62	0.95
	Back	0.77	0.07	0.75	0.01	0.84	1.54
LTE Band 66	Front	0.43	0.05	0.36	0.02	0.48	0.81
	Back	0.96	0.07	0.75	0.01	1.03	1.73
LTE Band 71	Front	0.29	0.05	0.36	0.02	0.34	0.67
	Back	0.52	0.07	0.75	0.01	0.59	1.29