

7.1.16 Conducted power measurements of GSM1900(main antenna)

GSM1900		Tune-up	Burst-Averaged output Power (dBm)			Division Factors	Tune-up	Frame-Averaged output Power (dBm)		
		Max.	512CH	661CH	810CH		Max.	512CH	661CH	810CH
GSM (CS)		31.00	30.30	30.20	30.10	-9.19	21.81	21.11	21.01	20.91
GPRS (GMSK)	1 Tx Slot	31.00	30.04	30.03	30.02	-9.19	21.81	20.85	20.84	20.83
	2 Tx Slots	29.00	28.10	28.00	27.90	-6.13	22.87	21.97	21.87	21.77
EDGE (GMSK)	1 Tx Slot	31.00	30.04	30.03	30.02	-9.19	21.81	20.85	20.84	20.83
	2 Tx Slots	29.00	28.10	28.00	27.90	-6.13	22.87	21.97	21.87	21.77
EDGE (8PSK)	1 Tx Slot	26.50	25.80	25.70	25.60	-9.19	17.31	16.61	16.51	16.41
	2 Tx Slots	24.50	23.00	23.10	22.90	-6.13	18.37	16.87	16.97	16.77

Table 94:Conducted power measurement results of GSM1900(Full Power)

GSM1900		Tune-up	Burst-Averaged output Power (dBm)			Division Factors	Tune-up	Frame-Averaged output Power (dBm)		
		Max.	512CH	661CH	810CH		Max.	512CH	661CH	810CH
GSM (CS)		28.00	27.20	27.20	27.10	-9.19	18.81	18.01	18.01	17.91
GPRS (GMSK)	1 Tx Slot	28.00	27.20	27.20	27.10	-9.19	18.81	18.01	18.01	17.91
	2 Tx Slots	26.00	25.00	24.90	24.90	-6.13	19.87	18.87	18.77	18.77
EDGE (GMSK)	1 Tx Slot	28.00	27.20	27.20	27.10	-9.19	18.81	18.01	18.01	17.91
	2 Tx Slots	26.00	25.00	24.90	24.90	-6.13	19.87	18.87	18.77	18.77
EDGE (8PSK)	1 Tx Slot	23.50	22.40	22.30	22.10	-9.19	14.31	13.21	13.11	12.91
	2 Tx Slots	21.50	20.20	20.30	20.10	-6.13	15.37	14.07	14.17	13.97

Table 95:Conducted power measurement results of GSM1900(Hotspot on +Sensor off)

Note:

- 1) The conducted power of GSM1900 is measured with RMS detector.
- 2) Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- 3) Per KDB941225 D01, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

7.1.17 Conducted power measurements of UMTS Band II(main antenna)

UMTS Band II		Tune-up	Average Power (dBm)		
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	25.00	24.25	24.03	24.12
	12.2kbps AMR	25.00	24.31	24.33	24.18
HSDPA	Subtest 1	24.50	23.62	23.66	23.63
	Subtest 2	23.50	22.81	22.88	22.79
	Subtest 3	23.00	22.34	22.32	22.35
	Subtest 4	23.00	22.32	22.35	22.34
HSUPA	Subtest 1	23.00	22.74	22.72	22.78
	Subtest 2	21.00	19.91	19.78	19.89
	Subtest 3	21.50	20.24	20.25	20.22
	Subtest 4	20.50	19.77	19.75	19.69
	Subtest 5	23.00	22.11	22.14	22.13
DC-HSDPA	Subtest 1	24.50	23.61	23.65	23.62
	Subtest 2	23.50	22.80	22.87	22.78
	Subtest 3	23.00	22.33	22.31	22.34
	Subtest 4	23.00	22.31	22.34	22.33

Table 96:Conducted power measurement results of UMTS Band II(Full Power)

UMTS Band II		Tune-up	Average Power (dBm)		
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	19.50	18.49	18.44	18.50
	12.2kbps AMR	19.50	18.44	18.43	18.55
HSDPA	Subtest 1	19.00	18.18	18.22	18.19
	Subtest 2	18.00	17.37	17.44	17.35
	Subtest 3	17.50	16.90	16.88	16.91
	Subtest 4	17.50	16.88	16.91	16.90
HSUPA	Subtest 1	17.50	17.19	17.17	17.23
	Subtest 2	15.50	14.08	14.14	14.12
	Subtest 3	16.00	14.66	14.64	14.46
	Subtest 4	15.00	13.76	13.77	13.69
	Subtest 5	17.50	16.56	16.59	16.58
DC-HSDPA	Subtest 1	19.00	18.17	18.21	18.18
	Subtest 2	18.00	17.36	17.43	17.34
	Subtest 3	17.50	16.89	16.87	16.90
	Subtest 4	17.50	16.87	16.90	16.89

Table 97:Conducted power measurement results of UMTS Band II(Hotspot on +Sensor off)

UMTS Band II		Tune-up	Average Power (dBm)		
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	23.50	22.50	22.70	22.56
	12.2kbps AMR	23.50	22.43	22.66	22.59
HSDPA	Subtest 1	23.00	22.13	22.17	22.14
	Subtest 2	22.00	21.32	21.39	21.30
	Subtest 3	21.50	20.85	20.83	20.86
	Subtest 4	21.50	20.83	20.86	20.85
HSUPA	Subtest 1	21.50	21.21	21.19	21.25
	Subtest 2	19.50	18.08	18.18	18.14
	Subtest 3	20.00	19.23	19.22	19.21
	Subtest 4	19.00	17.68	17.67	17.75
	Subtest 5	21.50	20.58	20.61	20.60
DC-HSDPA	Subtest 1	23.00	22.12	22.16	22.13
	Subtest 2	22.00	21.31	21.38	21.29
	Subtest 3	21.50	20.84	20.82	20.85
	Subtest 4	21.50	20.82	20.85	20.84

Table 98:Conducted power measurement results of UMTS Band II(Sensor on+Hotspot off)

UMTS Band II		Tune-up	Average Power (dBm)		
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	17.00	16.64	16.71	16.73
	12.2kbps AMR	17.00	16.59	16.67	16.61
HSDPA	Subtest 1	16.50	15.59	15.63	15.60
	Subtest 2	15.50	14.78	14.85	14.76
	Subtest 3	15.00	14.31	14.29	14.32
	Subtest 4	15.00	14.29	14.32	14.31
HSUPA	Subtest 1	15.00	14.76	14.74	14.80
	Subtest 2	13.00	12.35	12.33	12.32
	Subtest 3	13.50	13.13	13.18	13.10
	Subtest 4	12.50	12.28	12.29	12.08
	Subtest 5	15.00	14.13	14.16	14.15
DC-HSDPA	Subtest 1	16.50	15.58	15.62	15.59
	Subtest 2	15.50	14.77	14.84	14.75
	Subtest 3	15.00	14.30	14.28	14.31
	Subtest 4	15.00	14.28	14.31	14.30

Table 99:Conducted power measurement results of UMTS Band II(Sensor on+Hotspot on)

Note:

- 1) The conducted power of UMTS Band II is measured with RMS detector.
- 2) The bolded 12.2kbps RMC mode was selected for SAR testing(the primary mode).
- 3) Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a Second mode is $\leq \frac{1}{4}$ 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 Second to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the Second mode.

7.1.18 Conducted power measurements of UMTS Band IV(main antenna)

UMTS Band IV		Tune-up	Average Power (dBm)		
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	25.00	24.10	23.90	23.97
	12.2kbps AMR	25.00	24.02	23.93	23.95
HSDPA	Subtest 1	24.50	23.35	23.33	23.29
	Subtest 2	23.50	23.33	23.40	23.39
	Subtest 3	23.00	22.35	22.37	22.38
	Subtest 4	23.00	22.95	22.96	22.93
HSUPA	Subtest 1	23.00	22.72	22.68	22.75
	Subtest 2	20.50	20.05	20.07	20.01
	Subtest 3	21.50	18.69	18.78	18.81
	Subtest 4	20.50	20.10	20.03	20.09
	Subtest 5	23.00	22.11	22.16	22.07
DC-HSDPA	Subtest 1	24.50	23.34	23.32	23.28
	Subtest 2	23.50	23.32	23.39	23.38
	Subtest 3	23.00	22.34	22.36	22.37
	Subtest 4	23.00	22.94	22.95	22.92

Table 100:Conducted power measurement results of UMTS Band IV(Full Power)

UMTS Band IV		Tune-up	Average Power (dBm)		
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	20.00	18.84	18.97	18.90
	12.2kbps AMR	20.00	18.96	18.85	18.85
HSDPA	Subtest 1	19.50	18.38	18.39	18.36
	Subtest 2	18.50	18.48	18.49	18.44
	Subtest 3	18.00	17.43	17.35	17.36
	Subtest 4	18.00	17.89	17.96	17.94
HSUPA	Subtest 1	18.00	17.73	17.70	17.75
	Subtest 2	15.50	15.08	15.05	15.04
	Subtest 3	16.50	13.72	13.69	13.73
	Subtest 4	15.50	15.06	15.08	15.09
	Subtest 5	18.00	17.07	17.08	17.10
DC-HSDPA	Subtest 1	19.50	18.37	18.38	18.35
	Subtest 2	18.50	18.47	18.48	18.43
	Subtest 3	18.00	17.42	17.34	17.35
	Subtest 4	18.00	17.88	17.95	17.93

Table 101:Conducted power measurement results of UMTS Band IV(Hotspot on +Sensor off)

UMTS Band IV		Tune-up	Average Power (dBm)		
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	22.50	21.60	21.52	21.40
	12.2kbps AMR	22.50	21.45	21.53	21.54
HSDPA	Subtest 1	22.00	20.88	20.81	20.80
	Subtest 2	21.00	20.88	20.93	20.90
	Subtest 3	20.50	19.88	19.81	19.85
	Subtest 4	20.50	20.44	20.45	20.45
HSUPA	Subtest 1	20.50	20.25	20.28	20.22
	Subtest 2	18.00	17.51	17.58	17.61
	Subtest 3	19.00	16.21	16.22	16.19
	Subtest 4	18.00	17.88	17.89	17.86
	Subtest 5	20.50	19.57	19.58	19.60
DC-HSDPA	Subtest 1	22.00	20.87	20.80	20.79
	Subtest 2	21.00	20.87	20.92	20.89
	Subtest 3	20.50	19.87	19.80	19.84
	Subtest 4	20.50	20.43	20.44	20.44

Table 102:Conducted power measurement results of UMTS Band IV(Sensor on+Hotspot off)

UMTS Band IV		Tune-up	Average Power (dBm)		
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	17.50	16.65	16.60	16.61
	12.2kbps AMR	17.50	16.58	16.56	16.54
HSDPA	Subtest 1	17.00	15.99	15.89	15.91
	Subtest 2	16.00	15.89	15.92	15.93
	Subtest 3	15.50	14.78	14.80	14.84
	Subtest 4	15.50	15.39	15.44	15.40
HSUPA	Subtest 1	15.50	15.20	15.24	15.29
	Subtest 2	13.00	12.09	12.11	12.12
	Subtest 3	14.00	12.58	12.66	12.59
	Subtest 4	13.00	12.15	12.16	12.22
	Subtest 5	15.50	14.57	14.58	14.49
DC-HSDPA	Subtest 1	17.00	15.98	15.88	15.90
	Subtest 2	16.00	15.88	15.91	15.92
	Subtest 3	15.50	14.77	14.79	14.83
	Subtest 4	15.50	15.38	15.43	15.39

Table 103:Conducted power measurement results of UMTS Band IV(Sensor on+Hotspot on)

Note:

- 1) The conducted power of UMTS Band IV is measured with RMS detector.
- 2) The bolded 12.2kbps RMC mode was selected for SAR testing(the primary mode).
- 3) Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a Second mode is $\leq \frac{1}{4}$ 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 Second to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the Second mode.

7.1.19 Conducted power measurements of UMTS Band V(main antenna)

UMTS Band V		Tune-up		Average Power (dBm)		
		Min.	Max.	4132CH	4182CH	4233CH
WCDMA	12.2kbps RMC	22.00	25.00	24.42	24.07	23.97
	12.2kbps AMR	22.00	25.00	24.17	24.29	24.09
HSDPA	Subtest 1	21.50	24.50	24.13	24.10	24.15
	Subtest 2	21.00	24.00	23.20	23.16	23.15
	Subtest 3	20.50	23.50	22.70	22.73	22.78
	Subtest 4	20.50	23.50	22.76	22.72	22.74
HSUPA	Subtest 1	20.50	23.50	23.29	23.26	23.27
	Subtest 2	18.50	21.50	20.44	20.45	20.50
	Subtest 3	19.50	22.50	22.47	22.48	22.46
	Subtest 4	18.50	21.50	19.98	19.95	19.99
	Subtest 5	20.00	23.00	22.13	22.07	22.15
DC-HSDPA	Subtest 1	21.50	24.50	24.12	24.09	24.14
	Subtest 2	21.00	24.00	23.19	23.15	23.14
	Subtest 3	20.50	23.50	22.69	22.72	22.77
	Subtest 4	20.50	23.50	22.75	22.71	22.73

Table 104:Conducted power measurement results of UMTS Band V(Full Power)

Note:

- 1) The conducted power of UMTS Band V is measured with RMS detector.
- 2) The bolded 12.2kbps RMC mode was selected for SAR testing(the primary mode).
- 3) Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a Second mode is $\leq \frac{1}{4}$ 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 Second to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the Second mode.

7.1.20 Conducted power measurements of LTE Band II(main antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18607CH	18900CH	19193CH
1.4MHz	QPSK	1	0	25.00	24.64	24.74	24.73
		1	3	25.00	24.35	24.00	24.55
		1	5	25.00	24.67	24.71	24.68
		3	0	25.00	24.64	24.51	24.61
		3	2	25.00	24.62	24.27	24.40
		3	3	25.00	24.56	24.58	24.55
		6	0	24.00	22.67	22.54	22.77
	16QAM	1	0	24.00	22.47	22.73	22.63
		1	3	24.00	22.14	22.08	22.13
		1	5	24.00	22.52	22.72	22.59
		3	0	24.00	22.55	22.74	22.72
		3	2	24.00	22.64	22.55	22.72
		3	3	24.00	22.54	22.52	22.59
		6	0	23.00	21.57	21.44	21.41
	64QAM	1	0	23.00	22.91	22.98	22.84
		1	3	23.00	22.47	22.58	22.67
		1	5	23.00	22.76	22.74	22.64
		3	0	23.00	21.72	21.60	21.50
		3	2	23.00	21.73	21.80	21.68
		3	3	23.00	21.70	21.59	21.64
		6	0	22.00	21.80	21.67	21.76
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18615CH	18900CH	19185CH
3MHz	QPSK	1	0	25.00	24.65	24.75	24.64
		1	7	25.00	24.66	24.76	24.64
		1	14	25.00	24.67	24.79	24.69
		8	0	24.00	22.70	22.57	22.57
		8	4	24.00	22.67	22.48	22.61
		8	7	24.00	22.54	22.56	22.61
		15	0	24.00	22.67	22.54	22.66
	16QAM	1	0	24.00	22.80	22.66	22.88
		1	7	24.00	22.86	22.62	22.95
		1	14	24.00	22.80	22.67	22.93
		8	0	23.00	21.63	21.62	21.58
		8	4	23.00	21.55	21.42	21.57
		8	7	23.00	21.51	21.60	21.61
		15	0	23.00	21.65	21.60	21.71
	64QAM	1	0	23.00	22.78	22.76	22.62
		1	7	23.00	22.51	22.40	22.54
		1	14	23.00	22.74	22.87	22.78
		8	0	22.00	21.65	21.79	21.64
		8	4	22.00	21.86	21.78	21.75
		8	7	22.00	21.84	21.87	21.88
		15	0	22.00	21.82	21.68	21.76

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	25.00	24.67	24.62	24.61
		1	13	25.00	24.61	24.60	24.60
		1	24	25.00	24.66	24.59	24.71
		12	0	24.00	22.68	22.64	22.68
		12	6	24.00	22.56	22.57	22.64
		12	13	24.00	22.64	22.66	22.75
		25	0	24.00	22.65	22.59	22.64
	16QAM	1	0	24.00	22.68	22.70	22.80
		1	13	24.00	22.61	22.65	22.81
		1	24	24.00	22.65	22.70	22.85
		12	0	23.00	21.73	21.65	21.73
		12	6	23.00	21.57	21.59	21.66
		12	13	23.00	21.69	21.66	21.75
		25	0	23.00	21.53	21.49	21.46
	64QAM	1	0	23.00	22.88	22.92	22.82
		1	13	23.00	22.46	22.37	22.33
		1	24	23.00	22.94	22.83	22.95
		12	0	22.00	21.62	21.58	21.67
		12	6	22.00	21.81	21.84	21.91
		12	13	22.00	21.65	21.55	21.63
		25	0	22.00	21.65	21.75	21.71
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH
10MHz	QPSK	1	0	25.00	24.73	24.58	24.69
		1	25	25.00	23.83	24.60	24.59
		1	49	25.00	24.69	24.57	24.85
		25	0	24.00	22.68	22.67	22.61
		25	13	24.00	22.64	22.58	22.59
		25	25	24.00	22.66	22.58	22.62
		50	0	24.00	22.62	22.61	22.62
	16QAM	1	0	24.00	22.63	22.66	22.80
		1	25	24.00	22.29	22.34	22.18
		1	49	24.00	22.57	22.54	22.79
		25	0	23.00	21.65	21.56	21.56
		25	13	23.00	21.61	21.58	21.59
		25	25	23.00	21.62	21.61	21.59
		50	0	23.00	21.58	21.58	21.51
	64QAM	1	0	23.00	22.90	22.92	22.86
		1	25	23.00	22.59	22.52	22.41
		1	49	23.00	22.80	22.86	22.85
		25	0	22.00	21.61	21.69	21.78
		25	13	22.00	21.64	21.49	21.55
		25	25	22.00	21.75	21.84	21.78
		50	0	22.00	21.69	21.70	21.77

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	25.00	24.73	24.63	24.68
		1	38	25.00	24.59	24.55	24.56
		1	74	25.00	24.58	24.57	24.68
		36	0	24.00	22.70	22.65	22.63
		36	18	24.00	22.65	22.62	22.59
		36	39	24.00	22.69	22.64	22.67
		75	0	24.00	22.67	22.63	22.58
	16QAM	1	0	24.00	22.63	22.68	22.58
		1	38	24.00	22.62	22.60	22.63
		1	74	24.00	22.61	22.70	22.69
		36	0	23.00	21.62	21.58	21.61
		36	18	23.00	21.55	21.56	21.60
		36	39	23.00	21.58	21.56	21.63
		75	0	23.00	21.58	21.59	21.56
	64QAM	1	0	23.00	22.96	22.81	22.81
		1	38	23.00	22.61	22.73	22.65
		1	74	23.00	22.78	22.66	22.78
		36	0	22.00	21.67	21.58	21.63
		36	18	22.00	21.87	21.76	21.69
		36	39	22.00	21.74	21.79	21.75
		75	0	22.00	21.58	21.64	21.65
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	25.00	24.81	24.79	24.76
		1	50	25.00	24.16	23.92	23.98
		1	99	25.00	24.80	24.86	24.94
		50	0	24.00	22.70	22.65	22.64
		50	25	24.00	22.61	22.57	22.62
		50	50	24.00	22.72	22.69	22.64
		100	0	24.00	22.68	22.60	22.61
	16QAM	1	0	24.00	22.96	22.84	23.09
		1	50	24.00	22.34	22.24	22.44
		1	99	24.00	23.10	22.95	23.09
		50	0	23.00	21.63	21.57	21.62
		50	25	23.00	21.60	21.52	21.50
		50	50	23.00	21.60	21.56	21.56
		100	0	23.00	21.62	21.61	21.52
	64QAM	1	0	23.00	22.81	22.80	22.71
		1	50	23.00	22.50	22.20	22.18
		1	99	23.00	22.83	22.70	22.71
		50	0	22.00	21.71	21.70	21.68
		50	25	22.00	21.73	21.60	21.61
		50	50	22.00	21.72	21.60	21.59
		100	0	22.00	21.70	21.60	21.58

Table 105:Conducted power measurement results of LTE Band II(Full Power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18607CH	18900CH	19193CH
1.4MHz	QPSK	1	0	19.50	19.00	19.05	19.09
		1	3	19.50	18.43	18.31	18.92
		1	5	19.50	19.06	19.08	19.13
		3	0	19.50	19.11	19.01	18.93
		3	2	19.50	18.83	18.65	18.99
		3	3	19.50	18.97	18.88	18.94
		6	0	19.50	18.95	18.96	18.96
	16QAM	1	0	19.50	19.10	18.86	19.05
		1	3	19.50	18.65	18.61	18.65
		1	5	19.50	19.08	18.86	19.11
		3	0	19.50	19.08	19.02	19.04
		3	2	19.50	18.93	18.69	18.92
		3	3	19.50	18.99	19.04	19.07
		6	0	19.50	18.88	18.96	18.93
	64QAM	1	0	19.50	19.27	19.32	19.28
		1	3	19.50	18.94	18.96	18.86
		1	5	19.50	19.06	18.94	18.80
		3	0	19.50	19.18	19.22	19.29
		3	2	19.50	19.33	19.29	19.36
		3	3	19.50	19.40	19.42	19.50
		6	0	19.50	19.32	19.29	19.41
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18615CH	18900CH	19185CH
3MHz	QPSK	1	0	19.50	19.08	19.08	19.04
		1	7	19.50	18.99	19.02	19.09
		1	14	19.50	18.99	19.11	19.04
		8	0	19.50	19.03	18.87	18.76
		8	4	19.50	18.97	18.88	19.00
		8	7	19.50	19.01	18.95	18.89
		15	0	19.50	19.01	18.99	19.06
	16QAM	1	0	19.50	19.06	19.07	19.10
		1	7	19.50	19.08	19.14	19.12
		1	14	19.50	19.16	19.10	19.13
		8	0	19.50	19.01	19.00	19.00
		8	4	19.50	18.99	18.86	18.99
		8	7	19.50	18.98	18.90	19.02
		15	0	19.50	19.03	18.84	19.07
	64QAM	1	0	19.50	19.33	19.25	19.35
		1	7	19.50	18.93	19.04	19.04
		1	14	19.50	19.15	19.12	19.19
		8	0	19.50	19.11	19.08	19.05
		8	4	19.50	19.21	19.35	19.37
		8	7	19.50	19.30	19.28	19.22
		15	0	19.50	19.14	19.24	19.25

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	19.50	19.07	19.02	19.01
		1	13	19.50	19.04	19.04	19.13
		1	24	19.50	19.14	19.02	19.12
		12	0	19.50	19.11	19.01	19.03
		12	6	19.50	18.98	18.99	18.99
		12	13	19.50	19.06	19.06	19.10
		25	0	19.50	18.99	18.96	19.01
	16QAM	1	0	19.50	19.03	18.95	19.07
		1	13	19.50	19.06	18.98	19.13
		1	24	19.50	19.06	18.91	19.19
		12	0	19.50	18.99	19.06	19.04
		12	6	19.50	18.98	19.02	18.94
		12	13	19.50	19.07	19.05	19.11
		25	0	19.50	18.88	18.95	18.94
	64QAM	1	0	19.50	19.10	19.23	19.16
		1	13	19.50	19.13	19.09	19.04
		1	24	19.50	19.15	19.22	19.28
		12	0	19.50	19.33	19.27	19.22
		12	6	19.50	19.25	19.27	19.16
		12	13	19.50	19.38	19.30	19.33
		25	0	19.50	19.30	19.42	19.35
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH
10MHz	QPSK	1	0	19.50	19.01	19.08	19.08
		1	25	19.50	18.53	18.44	18.71
		1	49	19.50	19.05	19.09	19.09
		25	0	19.50	19.09	19.02	19.03
		25	13	19.50	19.01	19.02	19.00
		25	25	19.50	19.03	19.00	19.03
		50	0	19.50	19.03	19.00	19.01
	16QAM	1	0	19.50	19.08	18.81	18.99
		1	25	19.50	18.10	18.28	18.25
		1	49	19.50	19.11	18.88	18.92
		25	0	19.50	19.04	19.00	18.97
		25	13	19.50	19.02	18.97	18.90
		25	25	19.50	19.03	18.97	18.97
		50	0	19.50	18.99	18.89	18.92
	64QAM	1	0	19.50	19.20	19.32	19.47
		1	25	19.50	18.90	18.91	18.88
		1	49	19.50	19.16	19.13	19.12
		25	0	19.50	19.16	19.07	18.93
		25	13	19.50	19.26	19.20	19.24
		25	25	19.50	19.29	19.41	19.38
		50	0	19.50	19.30	19.19	19.27

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	19.50	19.02	18.97	19.08
		1	38	19.50	18.99	18.96	19.02
		1	74	19.50	18.99	18.99	19.08
		36	0	19.50	19.13	19.04	19.06
		36	18	19.50	19.11	19.02	18.99
		36	39	19.50	19.12	19.03	19.06
		75	0	19.50	19.09	19.01	19.04
	16QAM	1	0	19.50	19.17	19.01	19.04
		1	38	19.50	19.24	18.91	19.06
		1	74	19.50	19.18	18.95	19.11
		36	0	19.50	19.04	18.97	18.97
		36	18	19.50	18.95	18.94	18.97
		36	39	19.50	19.05	18.93	18.97
		75	0	19.50	19.02	18.92	18.99
	64QAM	1	0	19.50	19.28	19.13	19.02
		1	38	19.50	19.01	18.93	18.94
		1	74	19.50	19.04	18.99	19.14
		36	0	19.50	19.07	18.99	19.08
		36	18	19.50	19.10	18.97	18.96
		36	39	19.50	19.19	19.25	19.31
		75	0	19.50	19.13	19.26	19.27
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	19.50	19.28	19.24	19.33
		1	50	19.50	18.67	18.38	18.71
		1	99	19.50	19.23	19.28	19.39
		50	0	19.50	19.13	19.07	19.11
		50	25	19.50	18.99	19.06	19.01
		50	50	19.50	19.14	19.07	19.05
		100	0	19.50	19.08	19.07	19.06
	16QAM	1	0	19.50	19.36	19.38	19.39
		1	50	19.50	18.97	19.20	18.46
		1	99	19.50	19.35	19.32	19.39
		50	0	19.50	19.05	19.04	19.03
		50	25	19.50	18.96	18.97	18.94
		50	50	19.50	19.10	19.03	18.99
		100	0	19.50	19.02	19.02	18.95
	64QAM	1	0	19.50	19.25	19.29	19.20
		1	50	19.50	19.00	18.96	19.01
		1	99	19.50	19.04	18.91	19.12
		50	0	19.50	19.10	19.16	19.21
		50	25	19.50	19.10	19.10	19.23
		50	50	19.50	19.31	19.20	19.27
		100	0	19.50	19.26	19.14	19.20

Table 106:Conducted power measurement results of LTE Band II(Hotspot on +Sensor off)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18607CH	18900CH	19193CH
1.4MHz	QPSK	1	0	23.00	22.61	22.58	22.72
		1	3	23.00	22.52	22.72	22.32
		1	5	23.00	22.62	22.62	22.56
		3	0	23.00	22.59	22.13	22.45
		3	2	23.00	22.70	22.40	22.44
		3	3	23.00	22.42	22.60	22.52
		6	0	23.00	22.42	22.43	22.40
	16QAM	1	0	23.00	22.54	22.54	22.46
		1	3	23.00	22.13	22.23	21.95
		1	5	23.00	22.53	22.62	22.33
		3	0	23.00	22.72	22.62	22.64
		3	2	23.00	22.50	22.23	22.28
		3	3	23.00	22.81	22.63	22.45
		6	0	23.00	21.60	21.51	21.33
	64QAM	1	0	23.00	22.69	22.78	22.78
		1	3	23.00	22.41	22.43	22.47
		1	5	23.00	22.86	22.98	22.96
		3	0	23.00	21.72	21.58	21.67
		3	2	23.00	21.78	21.85	21.70
		3	3	23.00	21.65	21.73	21.82
		6	0	22.00	21.61	21.50	21.44
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18615CH	18900CH	19185CH
3MHz	QPSK	1	0	23.00	22.71	22.56	22.67
		1	7	23.00	22.74	22.61	22.63
		1	14	23.00	22.70	22.60	22.47
		8	0	23.00	22.60	22.44	22.63
		8	4	23.00	22.37	22.65	22.52
		8	7	23.00	22.59	22.49	22.54
		15	0	23.00	22.67	22.58	22.64
	16QAM	1	0	23.00	22.79	22.44	22.73
		1	7	23.00	22.81	22.61	22.75
		1	14	23.00	22.60	22.68	22.64
		8	0	23.00	21.62	21.43	21.67
		8	4	23.00	21.58	21.45	21.56
		8	7	23.00	21.60	21.56	21.55
		15	0	23.00	21.57	21.60	21.53
	64QAM	1	0	23.00	22.93	22.91	22.83
		1	7	23.00	22.62	22.54	22.51
		1	14	23.00	22.93	23.00	22.93
		8	0	23.00	21.64	21.49	21.46
		8	4	23.00	21.79	21.68	21.72
		8	7	23.00	21.63	21.77	21.86
		15	0	22.00	21.55	21.58	21.49

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	23.00	22.60	22.59	22.59
		1	13	23.00	22.64	22.57	22.65
		1	24	23.00	22.69	22.59	22.60
		12	0	23.00	22.68	22.56	22.66
		12	6	23.00	22.64	22.48	22.68
		12	13	23.00	22.66	22.62	22.65
		25	0	23.00	22.63	22.62	22.57
	16QAM	1	0	23.00	22.79	22.71	22.75
		1	13	23.00	22.80	22.79	22.78
		1	24	23.00	22.79	22.84	22.64
		12	0	23.00	21.62	21.61	21.59
		12	6	23.00	21.58	21.61	21.66
		12	13	23.00	21.62	21.64	21.62
		25	0	23.00	21.51	21.37	21.49
	64QAM	1	0	23.00	22.79	22.87	22.81
		1	13	23.00	22.65	22.78	22.74
		1	24	23.00	22.89	22.89	22.84
		12	0	22.00	21.65	21.78	21.79
		12	6	22.00	21.79	21.93	21.93
		12	13	22.00	21.87	21.72	21.70
		25	0	22.00	21.67	21.73	21.69
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH
10MHz	QPSK	1	0	23.00	22.67	22.42	22.62
		1	25	23.00	22.26	22.41	22.55
		1	49	23.00	22.68	22.51	22.66
		25	0	23.00	22.62	22.52	22.53
		25	13	23.00	22.55	22.50	22.62
		25	25	23.00	22.64	22.58	22.62
		50	0	23.00	22.63	22.54	22.56
	16QAM	1	0	23.00	22.64	22.58	22.73
		1	25	23.00	22.31	22.27	22.49
		1	49	23.00	22.68	22.66	22.70
		25	0	23.00	21.55	21.55	21.57
		25	13	23.00	21.50	21.53	21.59
		25	25	23.00	21.56	21.53	21.58
		50	0	23.00	21.54	21.51	21.51
	64QAM	1	0	23.00	22.70	22.67	22.61
		1	25	23.00	22.40	22.51	22.42
		1	49	23.00	22.95	22.82	22.95
		25	0	22.00	21.75	21.68	21.74
		25	13	22.00	21.79	21.89	21.79
		25	25	22.00	21.79	21.89	21.81
		50	0	22.00	21.60	21.47	21.38

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	23.00	22.59	22.60	22.47
		1	38	23.00	22.56	22.55	22.49
		1	74	23.00	22.53	22.55	22.51
		36	0	23.00	22.70	22.59	22.59
		36	18	23.00	22.61	22.53	22.52
		36	39	23.00	22.65	22.63	22.59
		75	0	23.00	22.65	22.52	22.59
	16QAM	1	0	23.00	22.83	22.68	22.51
		1	38	23.00	22.74	22.52	22.60
		1	74	23.00	22.79	22.56	22.52
		36	0	23.00	21.62	21.54	21.54
		36	18	23.00	21.54	21.49	21.50
		36	39	23.00	21.61	21.52	21.61
		75	0	23.00	21.60	21.47	21.50
	64QAM	1	0	23.00	22.96	22.87	22.91
		1	38	23.00	22.53	22.63	22.75
		1	74	23.00	22.76	22.89	22.80
		36	0	22.00	21.67	21.72	21.84
		36	18	22.00	21.79	21.75	21.64
		36	39	22.00	21.66	21.67	21.71
		75	0	22.00	21.64	21.71	21.75
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	23.00	21.88	22.78	21.50
		1	50	23.00	21.26	22.33	21.39
		1	99	23.00	22.05	22.76	21.29
		50	0	23.00	22.04	22.57	21.10
		50	25	23.00	21.94	22.52	22.11
		50	50	23.00	21.95	22.61	22.19
		100	0	23.00	22.02	22.63	22.09
	16QAM	1	0	23.00	22.26	22.85	21.20
		1	50	23.00	21.99	22.10	21.16
		1	99	23.00	22.34	22.87	21.12
		50	0	23.00	21.00	21.52	21.06
		50	25	23.00	21.01	21.50	21.02
		50	50	23.00	21.02	21.52	21.06
		100	0	23.00	21.02	21.57	21.00
	64QAM	1	0	23.00	22.68	22.74	22.79
		1	50	23.00	22.50	22.62	22.75
		1	99	23.00	22.91	22.85	22.76
		50	0	22.00	21.84	21.84	21.93
		50	25	22.00	21.67	21.76	21.76
		50	50	22.00	21.81	21.74	21.78
		100	0	22.00	21.71	21.73	21.70

Table 107:Conducted power measurement results of LTE Band II(Sensor on+Hotspot off)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18607CH	18900CH	19193CH
1.4MHz	QPSK	1	0	17.50	17.11	17.11	17.06
		1	3	17.50	16.70	17.29	16.59
		1	5	17.50	17.11	17.09	17.02
		3	0	17.50	17.07	16.84	17.11
		3	2	17.50	16.81	16.71	16.98
		3	3	17.50	17.05	16.90	16.94
		6	0	17.50	16.95	17.00	16.89
	16QAM	1	0	17.50	17.11	16.97	17.21
		1	3	17.50	16.61	17.31	16.97
		1	5	17.50	17.12	17.00	16.93
		3	0	17.50	17.08	17.02	16.76
		3	2	17.50	16.70	16.84	16.79
		3	3	17.50	17.12	16.90	16.98
		6	0	17.50	16.97	16.87	17.03
	64QAM	1	0	17.50	17.06	17.05	17.08
		1	3	17.50	17.08	16.95	17.03
		1	5	17.50	17.16	17.18	17.25
		3	0	17.50	16.90	16.88	16.84
		3	2	17.50	16.73	16.64	16.72
		3	3	17.50	17.02	17.05	17.08
		6	0	17.50	16.81	16.73	16.85
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18615CH	18900CH	19185CH
3MHz	QPSK	1	0	17.50	17.18	17.14	17.07
		1	7	17.50	17.18	17.02	17.05
		1	14	17.50	17.11	17.09	16.96
		8	0	17.50	16.91	17.02	17.04
		8	4	17.50	16.83	16.95	17.19
		8	7	17.50	16.95	16.95	17.21
		15	0	17.50	17.08	17.03	17.06
	16QAM	1	0	17.50	17.27	17.05	17.18
		1	7	17.50	17.25	17.14	17.20
		1	14	17.50	17.18	17.17	17.26
		8	0	17.50	17.19	17.10	17.04
		8	4	17.50	17.19	16.99	16.66
		8	7	17.50	16.96	16.96	17.00
		15	0	17.50	17.11	16.92	16.98
	64QAM	1	0	17.50	17.19	17.27	17.21
		1	7	17.50	17.02	16.97	17.08
		1	14	17.50	17.18	17.33	17.37
		8	0	17.50	16.83	16.86	16.77
		8	4	17.50	16.94	16.96	17.11
		8	7	17.50	17.02	16.90	16.75
		15	0	17.50	16.81	16.67	16.52

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	17.50	17.12	17.02	17.09
		1	13	17.50	17.07	17.05	17.16
		1	24	17.50	17.07	17.03	17.09
		12	0	17.50	17.12	17.00	17.08
		12	6	17.50	17.11	16.94	17.11
		12	13	17.50	17.12	17.08	17.11
		25	0	17.50	17.18	16.99	17.02
	16QAM	1	0	17.50	17.29	17.21	17.07
		1	13	17.50	17.30	17.19	17.09
		1	24	17.50	17.32	17.22	17.00
		12	0	17.50	17.07	16.99	17.07
		12	6	17.50	17.01	16.93	17.03
		12	13	17.50	17.10	17.05	17.10
		25	0	17.50	16.95	16.92	16.92
	64QAM	1	0	17.50	17.09	17.04	17.07
		1	13	17.50	17.15	17.08	17.02
		1	24	17.50	17.12	17.00	16.97
		12	0	17.50	16.93	16.96	17.07
		12	6	17.50	16.77	16.89	16.77
		12	13	17.50	16.89	16.82	16.94
		25	0	17.50	16.75	16.66	16.65
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH
10MHz	QPSK	1	0	17.50	17.10	17.15	17.05
		1	25	17.50	16.98	16.63	16.79
		1	49	17.50	17.16	17.04	16.99
		25	0	17.50	17.12	17.02	17.03
		25	13	17.50	17.08	16.99	17.04
		25	25	17.50	17.11	17.02	17.06
		50	0	17.50	17.08	16.96	17.05
	16QAM	1	0	17.50	17.03	17.00	17.02
		1	25	17.50	16.33	16.48	16.49
		1	49	17.50	17.15	16.92	17.18
		25	0	17.50	17.04	16.95	16.97
		25	13	17.50	17.01	16.94	17.06
		25	25	17.50	17.04	16.94	17.00
		50	0	17.50	17.00	16.88	16.94
	64QAM	1	0	17.50	17.27	17.17	17.05
		1	25	17.50	17.11	17.05	17.00
		1	49	17.50	17.21	17.07	17.10
		25	0	17.50	16.88	16.74	16.74
		25	13	17.50	16.72	16.78	16.85
		25	25	17.50	17.03	16.99	17.08
		50	0	17.50	17.02	17.09	17.13

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	17.50	17.08	17.15	17.06
		1	38	17.50	17.07	17.13	17.13
		1	74	17.50	17.07	17.09	17.04
		36	0	17.50	17.18	17.11	17.10
		36	18	17.50	17.12	17.03	17.04
		36	39	17.50	17.19	17.10	17.10
		75	0	17.50	17.13	17.00	17.04
	16QAM	1	0	17.50	17.14	17.24	17.03
		1	38	17.50	17.16	17.15	17.04
		1	74	17.50	17.18	17.09	16.98
		36	0	17.50	17.09	17.07	17.01
		36	18	17.50	17.08	17.00	16.94
		36	39	17.50	17.13	17.05	17.02
		75	0	17.50	17.06	16.93	16.97
	64QAM	1	0	17.50	17.25	17.10	17.10
		1	38	17.50	17.07	17.01	16.99
		1	74	17.50	17.11	16.98	16.89
		36	0	17.50	16.79	16.80	16.72
		36	18	17.50	16.94	16.82	16.78
		36	39	17.50	17.00	16.89	16.93
		75	0	17.50	16.81	16.84	16.70
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	17.50	17.00	17.01	16.88
		1	50	17.50	16.83	16.81	16.75
		1	99	17.50	17.13	17.18	17.14
		50	0	17.50	17.15	17.06	17.07
		50	25	17.50	17.11	17.02	17.04
		50	50	17.50	17.14	17.15	17.08
		100	0	17.50	17.15	17.08	17.04
	16QAM	1	0	17.50	17.09	17.22	16.91
		1	50	17.50	17.00	16.97	16.94
		1	99	17.50	17.30	17.38	17.15
		50	0	17.50	17.08	16.98	17.00
		50	25	17.50	17.01	16.94	16.95
		50	50	17.50	17.06	17.06	17.04
		100	0	17.50	17.05	16.97	17.08
	64QAM	1	0	17.50	17.33	17.35	17.37
		1	50	17.50	17.22	17.18	17.21
		1	99	17.50	17.20	17.09	17.13
		50	0	17.50	17.01	17.07	17.07
		50	25	17.50	16.82	16.75	16.80
		50	50	17.50	16.86	16.89	16.79
		100	0	17.50	17.05	17.12	17.08

Table 108:Conducted power measurement results of LTE Band II(Sensor on+Hotspot on)

7.1.21 Conducted power measurements of LTE Band IV(main antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19957CH	20175CH	20393CH
1.4MHz	QPSK	1	0	25.00	24.49	24.53	24.48
		1	3	25.00	24.16	23.91	23.93
		1	5	25.00	24.44	24.60	24.51
		3	0	25.00	24.52	24.69	24.59
		3	2	25.00	24.13	24.00	24.41
		3	3	25.00	24.31	24.44	24.22
		6	0	24.00	22.13	22.56	22.29
	16QAM	1	0	24.00	22.34	22.49	22.50
		1	3	24.00	21.94	21.75	21.77
		1	5	24.00	22.42	22.46	22.56
		3	0	24.00	22.33	22.60	22.29
		3	2	24.00	22.38	22.58	22.42
		3	3	24.00	22.19	22.39	22.09
		6	0	23.00	21.18	21.48	21.00
	64QAM	1	0	23.00	22.55	22.57	22.44
		1	3	23.00	22.04	21.90	21.79
		1	5	23.00	22.69	22.68	22.75
		3	0	23.00	21.67	21.64	21.61
		3	2	23.00	21.64	21.60	21.68
		3	3	23.00	21.45	21.31	21.19
		6	0	22.00	21.67	21.62	21.52
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19965CH	20175CH	20385CH
3MHz	QPSK	1	0	25.00	24.64	24.55	24.45
		1	7	25.00	24.72	24.57	24.52
		1	14	25.00	24.74	24.45	24.52
		8	0	24.00	22.47	22.26	22.45
		8	4	24.00	22.48	22.36	22.49
		8	7	24.00	22.52	22.44	22.39
		15	0	24.00	22.51	22.56	22.51
	16QAM	1	0	24.00	22.48	22.34	22.56
		1	7	24.00	22.56	22.39	22.60
		1	14	24.00	22.64	22.39	22.62
		8	0	23.00	21.49	21.52	21.24
		8	4	23.00	21.51	21.44	21.20
		8	7	23.00	21.61	21.55	21.42
		15	0	23.00	21.44	21.49	21.33
	64QAM	1	0	23.00	22.46	22.35	22.24
		1	7	23.00	22.03	22.00	22.12
		1	14	23.00	22.61	22.72	22.84
		8	0	22.00	21.48	21.50	21.53
		8	4	22.00	21.45	21.51	21.38
		8	7	22.00	21.46	21.40	21.30
		15	0	22.00	21.63	21.59	21.61

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19975CH	20175CH	20375CH
5MHz	QPSK	1	0	25.00	24.13	24.42	24.44
		1	13	25.00	24.54	24.54	24.53
		1	24	25.00	24.54	24.50	24.55
		12	0	24.00	22.58	22.53	22.55
		12	6	24.00	22.51	22.43	22.49
		12	13	24.00	22.56	22.50	22.56
		25	0	24.00	22.56	22.44	22.45
	16QAM	1	0	24.00	22.63	22.69	22.76
		1	13	24.00	22.77	22.79	22.67
		1	24	24.00	22.69	22.67	22.72
		12	0	23.00	21.61	21.50	21.44
		12	6	23.00	21.55	21.53	21.47
		12	13	23.00	21.61	21.55	21.62
		25	0	23.00	21.51	21.45	21.37
	64QAM	1	0	23.00	22.60	22.56	22.55
		1	13	23.00	22.02	22.09	22.14
		1	24	23.00	22.71	22.70	22.58
		12	0	22.00	21.70	21.75	21.78
		12	6	22.00	21.55	21.61	21.48
		12	13	22.00	21.60	21.65	21.65
		25	0	22.00	21.66	21.62	21.69
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20000CH	20175CH	20350CH
10MHz	QPSK	1	0	25.00	23.24	24.47	24.50
		1	25	25.00	23.82	24.04	24.34
		1	49	25.00	24.64	24.55	24.56
		25	0	24.00	22.61	22.46	22.46
		25	13	24.00	22.52	22.50	22.44
		25	25	24.00	22.56	22.50	22.42
		50	0	24.00	22.56	22.46	22.43
	16QAM	1	0	24.00	22.73	22.61	22.41
		1	25	24.00	22.01	22.32	22.07
		1	49	24.00	22.68	22.54	22.59
		25	0	23.00	21.54	21.47	21.33
		25	13	23.00	21.46	21.43	21.40
		25	25	23.00	21.52	21.46	21.43
		50	0	23.00	21.48	21.48	21.30
	64QAM	1	0	23.00	22.44	22.56	22.56
		1	25	23.00	22.25	22.17	22.23
		1	49	23.00	22.82	22.97	22.85
		25	0	22.00	21.55	21.56	21.43
		25	13	22.00	21.59	21.50	21.40
		25	25	22.00	21.52	21.59	21.56
		50	0	22.00	21.70	21.84	21.94

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20025CH	20175CH	20325CH
15MHz	QPSK	1	0	25.00	24.53	24.59	24.40
		1	38	25.00	24.48	24.50	24.39
		1	74	25.00	24.61	24.61	24.52
		36	0	24.00	22.63	22.54	22.55
		36	18	24.00	22.60	22.54	22.48
		36	39	24.00	22.60	22.57	22.58
		75	0	24.00	22.59	22.49	22.49
	16QAM	1	0	24.00	22.49	22.68	22.50
		1	38	24.00	22.47	22.61	22.44
		1	74	24.00	22.46	22.61	22.57
		36	0	23.00	21.57	21.51	21.41
		36	18	23.00	21.48	21.53	21.44
		36	39	23.00	21.57	21.53	21.49
		75	0	23.00	21.53	21.47	21.37
	64QAM	1	0	23.00	22.58	22.72	22.67
		1	38	23.00	22.05	22.00	21.87
		1	74	23.00	22.78	22.64	22.75
		36	0	22.00	21.71	21.73	21.71
		36	18	22.00	21.50	21.62	21.76
		36	39	22.00	21.50	21.58	21.47
		75	0	22.00	21.45	21.56	21.47
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20050CH	20175CH	20300CH
20MHz	QPSK	1	0	25.00	24.79	24.71	24.58
		1	50	25.00	24.16	23.80	24.01
		1	99	25.00	24.75	24.66	24.50
		50	0	24.00	22.57	22.46	22.33
		50	25	24.00	22.45	22.42	22.27
		50	50	24.00	22.48	22.53	22.26
		100	0	24.00	22.54	22.55	22.34
	16QAM	1	0	24.00	22.91	22.49	22.40
		1	50	24.00	22.19	22.15	22.12
		1	99	24.00	22.82	22.63	22.62
		50	0	23.00	21.38	21.50	21.20
		50	25	23.00	21.35	21.43	21.23
		50	50	23.00	21.42	21.47	21.27
		100	0	23.00	21.46	21.48	21.24
	64QAM	1	0	23.00	22.57	22.62	22.58
		1	50	23.00	22.01	21.93	22.07
		1	99	23.00	22.60	22.51	22.56
		50	0	22.00	21.62	21.53	21.65
		50	25	22.00	21.43	21.31	21.37
		50	50	22.00	21.49	21.61	21.55
		100	0	22.00	21.57	21.44	21.39

Table 109:Conducted power measurement results of LTE Band IV(Full Power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19957CH	20175CH	20393CH
1.4MHz	QPSK	1	0	20.00	19.53	19.59	19.58
		1	3	20.00	19.03	18.96	19.22
		1	5	20.00	19.57	19.61	19.60
		3	0	20.00	19.54	19.49	19.51
		3	2	20.00	19.32	18.91	19.22
		3	3	20.00	19.39	19.37	19.42
		6	0	20.00	19.51	19.25	19.44
	16QAM	1	0	20.00	19.61	19.54	19.74
		1	3	20.00	19.14	18.87	19.48
		1	5	20.00	19.66	19.60	19.68
		3	0	20.00	19.64	19.69	19.66
		3	2	20.00	19.61	19.23	19.58
		3	3	20.00	19.43	19.46	19.38
		6	0	20.00	19.34	19.21	19.21
	64QAM	1	0	20.00	19.50	19.44	19.46
		1	3	20.00	19.35	19.48	19.62
		1	5	20.00	19.57	19.48	19.55
		3	0	20.00	19.41	19.52	19.47
		3	2	20.00	19.45	19.43	19.44
		3	3	20.00	19.28	19.30	19.32
		6	0	20.00	19.50	19.62	19.70
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19965CH	20175CH	20385CH
3MHz	QPSK	1	0	20.00	19.46	19.50	19.53
		1	7	20.00	19.46	19.54	19.57
		1	14	20.00	19.50	19.52	19.58
		8	0	20.00	19.49	19.44	19.34
		8	4	20.00	19.40	19.53	19.44
		8	7	20.00	19.51	19.41	19.35
		15	0	20.00	19.47	19.54	19.42
	16QAM	1	0	20.00	19.71	19.47	19.46
		1	7	20.00	19.76	19.45	19.48
		1	14	20.00	19.75	19.53	19.51
		8	0	20.00	19.33	19.42	19.55
		8	4	20.00	19.48	19.39	19.44
		8	7	20.00	19.37	19.36	19.47
		15	0	20.00	19.46	19.49	19.42
	64QAM	1	0	20.00	19.46	19.33	19.39
		1	7	20.00	19.53	19.44	19.54
		1	14	20.00	19.58	19.56	19.43
		8	0	20.00	19.42	19.51	19.36
		8	4	20.00	19.53	19.51	19.46
		8	7	20.00	19.32	19.40	19.49
		15	0	20.00	19.48	19.47	19.61

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19975CH	20175CH	20375CH
5MHz	QPSK	1	0	20.00	19.60	19.45	19.48
		1	13	20.00	19.60	19.52	19.55
		1	24	20.00	19.53	19.50	19.60
		12	0	20.00	19.59	19.44	19.51
		12	6	20.00	19.56	19.44	19.45
		12	13	20.00	19.55	19.50	19.51
		25	0	20.00	19.53	19.44	19.50
	16QAM	1	0	20.00	19.49	19.58	19.45
		1	13	20.00	19.52	19.58	19.45
		1	24	20.00	19.54	19.54	19.55
		12	0	20.00	19.55	19.41	19.52
		12	6	20.00	19.48	19.37	19.46
		12	13	20.00	19.57	19.49	19.52
		25	0	20.00	19.53	19.37	19.39
	64QAM	1	0	20.00	19.38	19.26	19.22
		1	13	20.00	19.48	19.55	19.42
		1	24	20.00	19.43	19.32	19.40
		12	0	20.00	19.57	19.54	19.68
		12	6	20.00	19.29	19.19	19.15
		12	13	20.00	19.16	19.03	18.97
		25	0	20.00	19.46	19.48	19.43
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20000CH	20175CH	20350CH
10MHz	QPSK	1	0	20.00	19.55	19.53	19.53
		1	25	20.00	18.72	19.03	19.16
		1	49	20.00	19.55	19.52	19.54
		25	0	20.00	19.54	19.46	19.45
		25	13	20.00	19.51	19.40	19.40
		25	25	20.00	19.51	19.46	19.46
		50	0	20.00	19.48	19.47	19.41
	16QAM	1	0	20.00	19.60	19.30	19.39
		1	25	20.00	19.18	18.62	18.82
		1	49	20.00	19.70	19.35	19.41
		25	0	20.00	19.51	19.40	19.39
		25	13	20.00	19.44	19.36	19.39
		25	25	20.00	19.46	19.41	19.40
		50	0	20.00	19.41	19.40	19.34
	64QAM	1	0	20.00	19.49	19.56	19.44
		1	25	20.00	19.54	19.44	19.54
		1	49	20.00	19.57	19.56	19.71
		25	0	20.00	19.38	19.34	19.33
		25	13	20.00	19.54	19.65	19.65
		25	25	20.00	19.31	19.16	19.09
		50	0	20.00	19.62	19.52	19.44

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20025CH	20175CH	20325CH
15MHz	QPSK	1	0	20.00	19.52	19.48	19.43
		1	38	20.00	19.45	19.48	19.44
		1	74	20.00	19.54	19.46	19.57
		36	0	20.00	19.59	19.49	19.46
		36	18	20.00	19.55	19.46	19.45
		36	39	20.00	19.64	19.51	19.51
		75	0	20.00	19.51	19.48	19.48
	16QAM	1	0	20.00	19.73	19.42	19.42
		1	38	20.00	19.73	19.35	19.39
		1	74	20.00	19.73	19.31	19.47
		36	0	20.00	19.55	19.47	19.45
		36	18	20.00	19.47	19.41	19.39
		36	39	20.00	19.59	19.42	19.45
		75	0	20.00	19.48	19.46	19.38
	64QAM	1	0	20.00	19.54	19.63	19.59
		1	38	20.00	19.53	19.53	19.42
		1	74	20.00	19.71	19.58	19.53
		36	0	20.00	19.43	19.36	19.42
		36	18	20.00	19.33	19.29	19.32
		36	39	20.00	19.15	19.18	19.11
		75	0	20.00	19.57	19.51	19.55
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20050CH	20175CH	20300CH
20MHz	QPSK	1	0	20.00	19.78	19.70	19.69
		1	50	20.00	19.51	19.20	19.10
		1	99	20.00	19.72	19.68	19.79
		50	0	20.00	19.58	19.53	19.52
		50	25	20.00	19.52	19.46	19.60
		50	50	20.00	19.57	19.55	19.49
		100	0	20.00	19.57	19.56	19.56
	16QAM	1	0	20.00	19.80	19.85	19.67
		1	50	20.00	19.31	19.29	19.32
		1	99	20.00	19.89	19.81	19.76
		50	0	20.00	19.50	19.50	19.47
		50	25	20.00	19.45	19.39	19.40
		50	50	20.00	19.50	19.46	19.41
		100	0	20.00	19.51	19.46	19.45
	64QAM	1	0	20.00	19.49	19.35	19.32
		1	50	20.00	19.45	19.56	19.56
		1	99	20.00	19.58	19.64	19.57
		50	0	20.00	19.65	19.74	19.82
		50	25	20.00	19.51	19.61	19.56
		50	50	20.00	19.14	19.10	19.24
		100	0	20.00	19.62	19.76	19.80

Table 110:Conducted power measurement results of LTE Band IV(Hotspot on +Sensor off)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19957CH	20175CH	20393CH
1.4MHz	QPSK	1	0	22.50	22.01	21.99	22.22
		1	3	22.50	21.53	21.74	21.83
		1	5	22.50	22.11	22.11	22.22
		3	0	22.50	22.07	22.05	22.14
		3	2	22.50	21.95	21.78	21.51
		3	3	22.50	21.95	21.84	22.03
		6	0	22.50	21.88	22.09	21.83
	16QAM	1	0	22.50	22.11	21.89	22.11
		1	3	22.50	21.82	21.24	21.39
		1	5	22.50	22.19	21.89	22.15
		3	0	22.50	22.23	22.30	22.14
		3	2	22.50	22.12	21.92	21.95
		3	3	22.50	21.96	21.99	22.12
		6	0	22.50	21.54	21.39	21.53
	64QAM	1	0	22.50	21.60	21.55	21.44
		1	3	22.50	21.24	21.21	21.31
		1	5	22.50	21.96	21.99	21.92
		3	0	22.50	21.26	21.15	21.21
		3	2	22.50	21.62	21.74	21.86
		3	3	22.50	21.44	21.49	21.37
		6	0	22.00	21.64	21.71	21.85
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19965CH	20175CH	20385CH
3MHz	QPSK	1	0	22.50	22.12	21.96	22.08
		1	7	22.50	22.07	22.10	22.15
		1	14	22.50	22.12	22.04	22.17
		8	0	22.50	21.96	21.88	21.95
		8	4	22.50	22.02	21.89	22.12
		8	7	22.50	22.00	21.75	21.92
		15	0	22.50	22.06	21.94	22.01
	16QAM	1	0	22.50	22.18	21.87	22.07
		1	7	22.50	22.23	21.93	22.09
		1	14	22.50	22.18	21.89	22.04
		8	0	22.50	21.53	21.39	21.48
		8	4	22.50	21.47	21.50	21.38
		8	7	22.50	21.47	21.50	21.58
		15	0	22.50	21.50	21.51	21.59
	64QAM	1	0	22.50	21.74	21.79	21.94
		1	7	22.50	21.41	21.40	21.37
		1	14	22.50	22.00	22.07	22.17
		8	0	22.00	21.42	21.56	21.66
		8	4	22.00	21.40	21.31	21.20
		8	7	22.00	21.50	21.49	21.35
		15	0	22.00	21.60	21.68	21.63

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19975CH	20175CH	20375CH
5MHz	QPSK	1	0	22.50	22.03	22.00	22.12
		1	13	22.50	22.06	22.02	22.12
		1	24	22.50	22.09	21.99	22.15
		12	0	22.50	22.06	22.01	22.12
		12	6	22.50	21.99	21.99	21.98
		12	13	22.50	22.11	22.11	22.19
		25	0	22.50	22.11	21.96	22.01
	16QAM	1	0	22.50	21.99	21.99	22.11
		1	13	22.50	22.10	22.11	22.10
		1	24	22.50	22.03	22.08	22.17
		12	0	22.50	21.51	21.50	21.57
		12	6	22.50	21.43	21.49	21.51
		12	13	22.50	21.51	21.53	21.60
		25	0	22.50	21.47	21.39	21.48
	64QAM	1	0	22.50	21.54	21.62	21.53
		1	13	22.50	21.38	21.38	21.39
		1	24	22.50	21.97	22.10	22.15
		12	0	22.00	21.23	21.11	21.20
		12	6	22.00	21.55	21.69	21.77
		12	13	22.00	21.50	21.36	21.26
		25	0	22.00	21.61	21.51	21.59
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20000CH	20175CH	20350CH
10MHz	QPSK	1	0	22.50	22.09	22.10	21.99
		1	25	22.50	21.77	21.42	21.99
		1	49	22.50	22.05	22.08	22.06
		25	0	22.50	22.07	22.03	22.02
		25	13	22.50	22.05	21.94	22.00
		25	25	22.50	22.04	22.06	22.05
		50	0	22.50	22.05	21.97	22.06
	16QAM	1	0	22.50	22.23	22.18	22.46
		1	25	22.50	21.60	21.82	21.97
		1	49	22.50	22.25	22.16	22.45
		25	0	22.50	21.52	21.44	21.42
		25	13	22.50	21.46	21.41	21.41
		25	25	22.50	21.47	21.47	21.50
		50	0	22.50	21.44	21.39	21.42
	64QAM	1	0	22.50	21.48	21.35	21.35
		1	25	22.50	21.23	21.35	21.24
		1	49	22.50	21.88	21.98	21.95
		25	0	22.00	21.17	21.19	21.19
		25	13	22.00	21.43	21.44	21.55
		25	25	22.00	21.49	21.53	21.56
		50	0	22.00	21.46	21.40	21.40

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20025CH	20175CH	20325CH
15MHz	QPSK	1	0	22.50	22.07	22.06	22.05
		1	38	22.50	22.07	22.06	22.00
		1	74	22.50	22.04	22.01	22.15
		36	0	22.50	22.08	22.03	22.15
		36	18	22.50	22.05	21.98	22.04
		36	39	22.50	22.18	22.11	22.13
		75	0	22.50	22.09	22.04	22.07
	16QAM	1	0	22.50	22.30	21.99	21.96
		1	38	22.50	22.26	21.93	21.92
		1	74	22.50	22.26	21.85	22.06
		36	0	22.50	21.56	21.53	21.53
		36	18	22.50	21.51	21.51	21.49
		36	39	22.50	21.49	21.52	21.50
		75	0	22.50	21.49	21.46	21.52
	64QAM	1	0	22.50	21.55	21.63	21.58
		1	38	22.50	21.32	21.20	21.15
		1	74	22.50	21.88	22.01	22.03
		36	0	22.00	21.25	21.25	21.25
		36	18	22.00	21.57	21.45	21.43
		36	39	22.00	21.59	21.48	21.46
		75	0	22.00	21.41	21.30	21.45
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20050CH	20175CH	20300CH
20MHz	QPSK	1	0	22.50	22.28	22.31	22.22
		1	50	22.50	21.91	21.59	21.81
		1	99	22.50	22.28	22.32	22.38
		50	0	22.50	22.10	22.09	22.09
		50	25	22.50	22.12	22.03	22.05
		50	50	22.50	22.10	22.11	22.15
		100	0	22.50	22.14	22.10	22.13
	16QAM	1	0	22.50	22.37	22.36	22.35
		1	50	22.50	21.31	21.94	22.02
		1	99	22.50	22.32	22.40	22.42
		50	0	22.50	21.53	21.54	21.56
		50	25	22.50	21.54	21.45	21.46
		50	50	22.50	21.56	21.53	21.50
		100	0	22.50	21.51	21.53	21.58
	64QAM	1	0	22.50	21.49	21.37	21.51
		1	50	22.50	21.35	21.34	21.43
		1	99	22.50	21.91	21.97	22.09
		50	0	22.00	21.25	21.25	21.17
		50	25	22.00	21.46	21.49	21.39
		50	50	22.00	21.36	21.40	21.50
		100	0	22.00	21.50	21.61	21.62

Table 111:Conducted power measurement results of LTE Band IV(Sensor on+Hotspot off)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19957CH	20175CH	20393CH
1.4MHz	QPSK	1	0	17.50	17.02	17.41	17.27
		1	3	17.50	17.04	16.86	16.59
		1	5	17.50	16.96	17.19	17.16
		3	0	17.50	17.01	17.04	16.99
		3	2	17.50	17.26	16.89	16.72
		3	3	17.50	17.17	16.87	17.11
		6	0	17.50	17.02	17.06	17.18
	16QAM	1	0	17.50	17.03	17.20	17.11
		1	3	17.50	16.97	17.03	16.74
		1	5	17.50	16.97	17.26	17.14
		3	0	17.50	16.93	17.15	17.26
		3	2	17.50	17.39	16.73	16.38
		3	3	17.50	17.04	17.14	17.39
		6	0	17.50	17.19	17.07	17.04
	64QAM	1	0	17.50	17.02	17.09	17.09
		1	3	17.50	16.86	16.77	16.89
		1	5	17.50	17.21	17.30	17.21
		3	0	17.50	16.88	16.74	16.86
		3	2	17.50	17.24	17.34	17.48
		3	3	17.50	17.05	17.10	17.17
		6	0	17.50	16.86	16.76	16.66
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19965CH	20175CH	20385CH
3MHz	QPSK	1	0	17.50	17.21	17.12	17.23
		1	7	17.50	17.15	17.32	17.31
		1	14	17.50	17.17	17.12	17.22
		8	0	17.50	17.16	16.95	17.19
		8	4	17.50	17.12	16.99	17.10
		8	7	17.50	17.20	17.04	17.05
		15	0	17.50	17.14	17.16	17.07
	16QAM	1	0	17.50	16.96	17.09	17.05
		1	7	17.50	17.26	17.42	17.08
		1	14	17.50	17.00	17.15	17.05
		8	0	17.50	17.15	17.20	17.23
		8	4	17.50	17.05	16.97	17.25
		8	7	17.50	17.11	17.16	17.09
		15	0	17.50	17.14	17.13	17.12
	64QAM	1	0	17.50	16.88	16.87	16.82
		1	7	17.50	16.75	16.79	16.93
		1	14	17.50	17.06	17.14	17.28
		8	0	17.50	16.86	16.76	16.79
		8	4	17.50	17.04	17.09	16.94
		8	7	17.50	17.17	17.25	17.24
		15	0	17.50	16.84	16.72	16.79

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19975CH	20175CH	20375CH
5MHz	QPSK	1	0	17.50	17.12	17.15	17.14
		1	13	17.50	17.10	17.15	17.20
		1	24	17.50	17.11	17.21	17.20
		12	0	17.50	17.10	17.16	17.19
		12	6	17.50	17.13	17.21	17.18
		12	13	17.50	17.17	17.21	17.18
		25	0	17.50	17.21	17.22	17.10
	16QAM	1	0	17.50	17.12	17.28	17.15
		1	13	17.50	17.09	17.29	17.17
		1	24	17.50	17.09	17.31	17.17
		12	0	17.50	17.22	17.19	17.22
		12	6	17.50	17.16	17.21	17.16
		12	13	17.50	17.19	17.25	17.22
		25	0	17.50	17.11	17.24	17.08
	64QAM	1	0	17.50	16.90	16.85	16.77
		1	13	17.50	16.91	16.86	16.72
		1	24	17.50	17.19	17.05	17.17
		12	0	17.50	16.94	16.82	16.74
		12	6	17.50	17.10	16.98	17.04
		12	13	17.50	17.09	16.99	16.87
		25	0	17.50	16.88	16.80	16.69
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20000CH	20175CH	20350CH
10MHz	QPSK	1	0	17.50	17.14	17.13	17.21
		1	25	17.50	16.97	17.03	16.84
		1	49	17.50	17.14	17.20	17.21
		25	0	17.50	17.21	17.16	17.14
		25	13	17.50	17.13	17.14	17.14
		25	25	17.50	17.21	17.21	17.20
		50	0	17.50	17.17	17.13	17.14
	16QAM	1	0	17.50	17.47	17.03	16.95
		1	25	17.50	16.90	16.90	16.50
		1	49	17.50	17.50	16.98	16.95
		25	0	17.50	17.18	17.11	17.10
		25	13	17.50	17.13	17.08	17.08
		25	25	17.50	17.19	17.13	17.13
		50	0	17.50	17.07	17.01	17.10
	64QAM	1	0	17.50	16.95	16.85	16.99
		1	25	17.50	16.74	16.66	16.74
		1	49	17.50	17.06	17.00	16.89
		25	0	17.50	17.03	16.90	16.95
		25	13	17.50	17.17	17.16	17.15
		25	25	17.50	17.18	17.12	17.03
		50	0	17.50	16.82	16.80	16.79

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20025CH	20175CH	20325CH
15MHz	QPSK	1	0	17.50	17.20	17.15	17.16
		1	38	17.50	17.13	17.17	17.22
		1	74	17.50	17.16	17.11	17.26
		36	0	17.50	17.23	17.16	17.19
		36	18	17.50	17.19	17.17	17.12
		36	39	17.50	17.26	17.20	17.15
		75	0	17.50	17.23	17.18	17.17
	16QAM	1	0	17.50	17.08	17.33	16.98
		1	38	17.50	17.01	17.25	17.12
		1	74	17.50	17.00	17.25	17.13
		36	0	17.50	17.19	17.13	17.17
		36	18	17.50	17.17	17.09	17.12
		36	39	17.50	17.22	17.15	17.11
		75	0	17.50	17.12	17.08	17.10
	64QAM	1	0	17.50	17.14	17.24	17.32
		1	38	17.50	16.79	16.66	16.75
		1	74	17.50	17.27	17.29	17.42
		36	0	17.50	16.85	16.92	16.94
		36	18	17.50	17.08	16.94	17.06
		36	39	17.50	17.02	16.91	16.80
		75	0	17.50	17.01	17.03	17.13
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20050CH	20175CH	20300CH
20MHz	QPSK	1	0	17.50	16.97	17.02	16.88
		1	50	17.50	16.74	17.31	17.16
		1	99	17.50	17.30	17.34	17.38
		50	0	17.50	17.20	17.21	17.18
		50	25	17.50	17.22	17.19	17.14
		50	50	17.50	17.26	17.17	17.18
		100	0	17.50	17.25	17.18	17.18
	16QAM	1	0	17.50	17.25	17.17	17.10
		1	50	17.50	17.25	16.61	17.25
		1	99	17.50	17.57	17.48	17.73
		50	0	17.50	17.18	17.13	17.14
		50	25	17.50	17.15	17.13	17.08
		50	50	17.50	17.17	17.15	17.09
		100	0	17.50	17.14	17.07	17.08
	64QAM	1	0	17.50	17.01	16.95	16.87
		1	50	17.50	16.75	16.88	16.91
		1	99	17.50	17.23	17.26	17.16
		50	0	17.50	17.05	16.96	16.91
		50	25	17.50	17.12	16.99	16.91
		50	50	17.50	17.08	16.93	16.91
		100	0	17.50	16.84	16.76	16.78

Table 112:Conducted power measurement results of LTE Band IV(Sensor on+Hotspot on)

7.1.22 Conducted power measurements of LTE Band V(main antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20407CH	20525CH	20643CH
1.4MHz	QPSK	1	0	25.00	24.46	24.44	24.57
		1	3	25.00	23.89	24.15	24.27
		1	5	25.00	24.51	24.46	24.60
		3	0	25.00	24.37	24.43	24.41
		3	2	25.00	24.10	24.00	24.16
		3	3	25.00	24.14	24.28	23.98
		6	0	24.00	22.98	22.88	22.66
	16QAM	1	0	24.00	22.90	23.03	23.01
		1	3	24.00	22.41	22.91	22.76
		1	5	24.00	22.86	23.09	23.07
		3	0	24.00	23.12	22.72	22.97
		3	2	24.00	22.66	22.58	22.72
		3	3	24.00	22.77	22.69	22.86
		6	0	23.00	21.78	21.77	21.94
	64QAM	1	0	23.00	22.81	22.92	22.86
		1	3	23.00	22.58	22.61	22.59
		1	5	23.00	22.75	22.88	22.92
		3	0	23.00	21.81	21.72	21.68
		3	2	23.00	21.69	21.68	21.59
		3	3	23.00	21.75	21.69	21.81
		6	0	22.00	21.57	21.46	21.47
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20415CH	20525CH	20635CH
3MHz	QPSK	1	0	25.00	24.48	24.43	24.49
		1	7	25.00	24.46	24.48	24.46
		1	14	25.00	24.52	24.43	24.44
		8	0	24.00	22.82	22.73	22.99
		8	4	24.00	22.91	22.80	22.90
		8	7	24.00	22.86	22.74	22.91
		15	0	24.00	22.87	22.90	22.96
	16QAM	1	0	24.00	23.01	23.01	23.18
		1	7	24.00	22.99	22.99	23.17
		1	14	24.00	22.99	23.04	23.17
		8	0	23.00	21.96	21.94	21.74
		8	4	23.00	21.83	21.84	21.90
		8	7	23.00	21.91	21.88	21.92
		15	0	23.00	21.81	21.88	21.95
	64QAM	1	0	23.00	22.82	22.85	22.88
		1	7	23.00	22.54	22.61	22.59
		1	14	23.00	22.61	22.60	22.68
		8	0	22.00	21.91	21.87	21.91
		8	4	22.00	21.69	21.62	21.63
		8	7	22.00	21.58	21.56	21.61
		15	0	22.00	21.81	21.68	21.63

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20425CH	20525CH	20625CH
5MHz	QPSK	1	0	25.00	24.48	24.40	24.47
		1	13	25.00	24.47	24.43	24.47
		1	24	25.00	24.48	24.40	24.40
		12	0	24.00	23.00	22.91	23.00
		12	6	24.00	23.02	22.94	22.92
		12	13	24.00	23.02	22.95	22.99
		25	0	24.00	22.96	22.92	23.01
	16QAM	1	0	24.00	23.06	23.06	23.04
		1	13	24.00	23.06	23.12	23.02
		1	24	24.00	23.08	23.07	22.95
		12	0	23.00	21.89	21.95	21.98
		12	6	23.00	21.89	21.94	21.98
		12	13	23.00	21.94	21.99	21.94
		25	0	23.00	21.95	21.80	21.92
	64QAM	1	0	23.00	22.70	22.66	22.77
		1	13	23.00	22.64	22.70	22.60
		1	24	23.00	22.68	22.58	22.68
		12	0	22.00	21.88	21.74	21.65
		12	6	22.00	21.67	21.69	21.76
		12	13	22.00	21.74	21.75	21.81
		25	0	22.00	21.77	21.76	21.62
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20450CH	20525CH	20600CH
10MHz	QPSK	1	0	25.00	24.50	24.46	24.43
		1	25	25.00	24.49	24.37	24.05
		1	49	25.00	24.35	24.44	24.42
		25	0	24.00	22.99	22.92	22.95
		25	13	24.00	22.96	22.94	22.94
		25	25	24.00	23.01	22.93	22.94
		50	0	24.00	22.98	22.94	23.01
	16QAM	1	0	24.00	23.03	22.93	22.71
		1	25	24.00	22.75	22.20	22.31
		1	49	24.00	23.09	22.85	23.21
		25	0	23.00	21.89	21.87	21.86
		25	13	23.00	21.93	21.84	21.87
		25	25	23.00	21.93	21.86	21.92
		50	0	23.00	21.87	21.79	21.90
	64QAM	1	0	23.00	22.69	22.81	22.94
		1	25	23.00	22.49	22.42	22.44
		1	49	23.00	22.62	22.61	22.57
		25	0	22.00	21.85	21.99	21.97
		25	13	22.00	21.93	21.79	21.89
		25	25	22.00	21.78	21.83	21.87
		50	0	22.00	21.63	21.72	21.68

Table 113:Conducted power measurement results of LTE Band V(Full Power)

7.1.23 Conducted power measurements of LTE Band VII(main antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20775CH	21100CH	21425CH
5MHz	QPSK	1	0	23.50	22.51	22.46	22.51
		1	13	23.50	22.48	22.48	22.50
		1	24	23.50	22.41	22.49	22.45
		12	0	22.50	21.47	21.42	21.38
		12	6	22.50	21.40	21.36	21.34
		12	13	22.50	21.46	21.45	21.39
		25	0	22.50	21.29	21.44	21.30
	16QAM	1	0	22.50	21.48	21.50	21.44
		1	13	22.50	21.47	21.65	21.48
		1	24	22.50	21.51	21.68	21.52
		12	0	21.50	20.50	20.41	20.35
		12	6	21.50	20.49	20.37	20.25
		12	13	21.50	20.48	20.45	20.38
		25	0	21.50	20.39	20.35	20.31
	64QAM	1	0	21.50	21.07	21.17	21.16
		1	13	21.50	20.64	20.72	20.72
		1	24	21.50	20.71	20.71	20.73
		12	0	20.50	19.76	19.86	19.93
		12	6	20.50	19.65	19.74	19.70
		12	13	20.50	19.80	19.90	19.92
		25	0	20.50	19.92	19.81	19.68
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20800CH	21100CH	21400CH
10MHz	QPSK	1	0	23.50	22.48	22.41	22.46
		1	25	23.50	22.00	22.28	22.04
		1	49	23.50	22.54	22.44	22.53
		25	0	22.50	21.45	21.47	21.40
		25	13	22.50	21.40	21.42	21.37
		25	25	22.50	21.39	21.42	21.32
		50	0	22.50	21.45	21.42	21.34
	16QAM	1	0	22.50	21.63	21.71	21.45
		1	25	22.50	21.53	21.56	21.60
		1	49	22.50	21.29	21.59	21.50
		25	0	21.50	20.44	20.40	20.29
		25	13	21.50	20.32	20.35	20.30
		25	25	21.50	20.40	20.37	20.30
		50	0	21.50	20.35	20.32	20.28
	64QAM	1	0	21.50	21.30	21.16	21.23
		1	25	21.50	20.40	20.27	20.20
		1	49	21.50	20.64	20.54	20.64
		25	0	20.50	19.78	19.86	19.94
		25	13	20.50	19.61	19.60	19.73
		25	25	20.50	19.73	19.70	19.61
		50	0	20.50	19.69	19.66	19.66

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20825CH	21100CH	21375CH
15MHz	QPSK	1	0	23.50	22.45	22.47	22.41
		1	38	23.50	22.42	22.45	22.48
		1	74	23.50	22.40	22.34	22.42
		36	0	22.50	21.44	21.50	21.48
		36	18	22.50	21.41	21.41	21.36
		36	39	22.50	21.46	21.43	21.51
		75	0	22.50	21.42	21.45	21.45
	16QAM	1	0	22.50	21.66	21.39	21.54
		1	38	22.50	21.60	21.38	21.56
		1	74	22.50	21.56	21.33	21.68
		36	0	21.50	20.45	20.41	20.44
		36	18	21.50	20.40	20.32	20.36
		36	39	21.50	20.39	20.38	20.41
		75	0	21.50	20.34	20.34	20.42
	64QAM	1	0	21.50	21.11	21.22	21.27
		1	38	21.50	20.52	20.52	20.65
		1	74	21.50	20.59	20.59	20.63
		36	0	20.50	19.69	19.71	19.56
		36	18	20.50	19.59	19.72	19.87
		36	39	20.50	19.66	19.70	19.79
		75	0	20.50	19.65	19.79	19.93
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20850CH	21100CH	21350CH
20MHz	QPSK	1	0	23.50	22.57	22.68	22.60
		1	50	23.50	22.00	22.24	22.13
		1	99	23.50	22.60	22.68	22.62
		50	0	22.50	21.45	21.53	21.50
		50	25	22.50	21.42	21.40	21.40
		50	50	22.50	21.50	21.51	21.47
		100	0	22.50	21.51	21.47	21.48
	16QAM	1	0	22.50	21.89	21.73	21.84
		1	50	22.50	21.15	21.23	21.29
		1	99	22.50	21.81	21.76	21.91
		50	0	21.50	20.36	20.43	20.38
		50	25	21.50	20.36	20.32	20.36
		50	50	21.50	20.41	20.45	20.35
		100	0	21.50	20.34	20.42	20.41
	64QAM	1	0	21.50	21.18	21.32	21.38
		1	50	21.50	20.60	20.74	20.82
		1	99	21.50	20.61	20.64	20.54
		50	0	20.50	19.89	19.82	19.92
		50	25	20.50	19.61	19.54	19.40
		50	50	20.50	19.63	19.70	19.61
		100	0	20.50	19.90	20.02	19.88

Table 114:Conducted power measurement results of LTE Band VII(Full Power)

7.1.24 Conducted power measurements of LTE Band XII(main antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23017CH	23095CH	23173CH
1.4MHz	QPSK	1	0	25.00	23.65	23.73	23.76
		1	3	25.00	23.28	23.13	23.41
		1	5	25.00	23.67	23.76	23.79
		3	0	25.00	23.65	23.60	23.86
		3	2	25.00	23.36	23.53	23.41
		3	3	25.00	23.44	23.45	23.66
		6	0	24.00	22.50	22.64	22.75
	16QAM	1	0	24.00	22.60	22.57	22.77
		1	3	24.00	22.11	22.15	22.47
		1	5	24.00	22.53	22.52	22.88
		3	0	24.00	22.76	22.78	22.83
		3	2	24.00	22.78	22.25	22.35
		3	3	24.00	22.71	22.83	22.73
		6	0	23.00	21.69	21.66	21.84
	64QAM	1	0	23.00	22.25	22.16	22.23
		1	3	23.00	21.73	21.79	21.70
		1	5	23.00	21.89	21.90	21.76
		3	0	23.00	21.26	21.35	21.29
		3	2	23.00	21.07	21.11	21.25
		3	3	23.00	21.14	21.07	21.09
		6	0	22.00	20.98	20.96	21.07
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23025CH	23095CH	23165CH
3MHz	QPSK	1	0	25.00	23.68	23.70	23.79
		1	7	25.00	23.71	23.69	23.72
		1	14	25.00	23.82	23.73	23.82
		8	0	24.00	22.58	22.58	22.57
		8	4	24.00	22.58	22.65	22.74
		8	7	24.00	22.65	22.56	22.61
		15	0	24.00	22.66	22.69	22.68
	16QAM	1	0	24.00	22.71	22.84	22.86
		1	7	24.00	22.80	22.77	22.82
		1	14	24.00	22.79	22.83	22.83
		8	0	23.00	21.63	21.54	21.61
		8	4	23.00	21.55	21.59	21.61
		8	7	23.00	21.63	21.57	21.63
		15	0	23.00	21.61	21.58	21.69
	64QAM	1	0	23.00	22.18	22.31	22.23
		1	7	23.00	21.70	21.71	21.61
		1	14	23.00	21.78	21.90	21.86
		8	0	22.00	21.12	21.03	21.09
		8	4	22.00	20.98	21.03	20.96
		8	7	22.00	21.18	21.11	21.08
		15	0	22.00	20.96	20.99	21.06

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23035CH	23095CH	23155CH
5MHz	QPSK	1	0	25.00	23.65	23.65	23.83
		1	13	25.00	23.62	23.63	23.79
		1	24	25.00	23.69	23.72	23.90
		12	0	24.00	22.74	22.72	22.73
		12	6	24.00	22.71	22.67	22.63
		12	13	24.00	22.76	22.71	22.74
		25	0	24.00	22.70	22.64	22.82
	16QAM	1	0	24.00	22.64	22.86	22.89
		1	13	24.00	22.68	22.85	22.84
		1	24	24.00	22.73	22.87	22.83
		12	0	23.00	21.67	21.71	21.72
		12	6	23.00	21.66	21.61	21.64
		12	13	23.00	21.66	21.77	21.70
		25	0	23.00	21.62	21.57	21.66
	64QAM	1	0	23.00	22.00	21.91	21.84
		1	13	23.00	21.67	21.73	21.63
		1	24	23.00	22.04	22.17	22.26
		12	0	22.00	21.27	21.16	21.15
		12	6	22.00	20.98	20.92	20.84
		12	13	22.00	21.22	21.11	21.15
		25	0	22.00	21.25	21.27	21.16
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23060CH	23095CH	23130CH
10MHz	QPSK	1	0	25.00	23.71	23.62	23.71
		1	25	25.00	23.08	23.55	23.33
		1	49	25.00	23.78	23.75	23.77
		25	0	24.00	22.64	22.71	22.74
		25	13	24.00	22.69	22.68	22.75
		25	25	24.00	22.75	22.73	22.74
		50	0	24.00	22.69	22.71	22.74
	16QAM	1	0	24.00	22.44	22.77	22.76
		1	25	24.00	22.78	22.78	22.75
		1	49	24.00	22.53	22.80	22.70
		25	0	23.00	21.62	21.68	21.67
		25	13	23.00	21.59	21.63	21.65
		25	25	23.00	21.63	21.66	21.72
		50	0	23.00	21.71	21.61	21.70
	64QAM	1	0	23.00	22.23	22.11	22.18
		1	25	23.00	21.69	21.68	21.67
		1	49	23.00	21.94	21.94	21.84
		25	0	22.00	21.11	21.03	20.92
		25	13	22.00	21.21	21.17	21.28
		25	25	22.00	21.13	21.22	21.16
		50	0	22.00	21.19	21.21	21.13

Table 115:Conducted power measurement results of LTE Band XII(Full Power)

7.1.25 Conducted power measurements of LTE Band XIV(main antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23305CH	23330CH	23355CH
5MHz	QPSK	1	0	25.00	24.84	24.62	24.72
		1	13	25.00	24.81	24.63	24.68
		1	24	25.00	24.83	24.68	24.72
		12	0	24.00	22.81	22.76	22.70
		12	6	24.00	22.62	22.73	22.73
		12	13	24.00	22.76	22.74	22.74
		25	0	24.00	22.57	22.72	22.71
	16QAM	1	0	24.00	22.80	22.75	23.00
		1	13	24.00	22.75	22.78	22.96
		1	24	24.00	22.82	22.76	22.93
		12	0	23.00	21.80	21.71	21.72
		12	6	23.00	21.73	21.69	21.70
		12	13	23.00	21.74	21.73	21.68
		25	0	23.00	21.54	21.63	21.61
	64QAM	1	0	23.00	22.95	23.00	22.96
		1	13	23.00	23.00	23.00	22.98
		1	24	23.00	22.86	22.95	22.87
		12	0	22.00	21.70	21.70	21.70
		12	6	22.00	21.60	21.60	21.50
		12	13	22.00	21.80	21.70	21.70
		25	0	22.00	21.70	21.70	21.70
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	/	23330CH	/
10MHz	QPSK	1	0	25.00	/	24.62	/
		1	25	25.00	/	24.13	/
		1	49	25.00	/	24.70	/
		25	0	24.00	/	22.76	/
		25	13	24.00	/	22.72	/
		25	25	24.00	/	22.72	/
		50	0	24.00	/	22.73	/
	16QAM	1	0	24.00	/	22.42	/
		1	25	24.00	/	22.34	/
		1	49	24.00	/	22.90	/
		25	0	23.00	/	21.66	/
		25	13	23.00	/	21.65	/
		25	25	23.00	/	21.65	/
		50	0	23.00	/	21.60	/
	64QAM	1	0	23.00	/	22.98	/
		1	25	23.00	/	22.90	/
		1	49	23.00	/	23.00	/
		25	0	22.00	/	21.80	/
		25	13	22.00	/	21.70	/
		25	25	22.00	/	21.80	/
		50	0	22.00	/	21.70	/

Table 116:Conducted power measurement results of LTE Band XIV(Full Power)

7.1.26 Conducted power measurements of LTE Band XVIII(main antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23875CH	23925CH	23975CH
5MHz	QPSK	1	0	24.50	23.66	23.64	23.53
		1	13	24.50	23.56	23.61	23.51
		1	24	24.50	23.55	23.61	23.56
		12	0	23.50	22.58	22.66	22.61
		12	6	23.50	22.48	22.59	22.53
		12	13	23.50	22.60	22.67	22.59
		25	0	23.50	22.51	22.51	22.60
	16QAM	1	0	23.50	22.48	22.76	22.80
		1	13	23.50	22.55	22.71	22.81
		1	24	23.50	22.56	22.76	22.80
		12	0	22.50	21.58	21.61	21.59
		12	6	22.50	21.50	21.61	21.44
		12	13	22.50	21.53	21.58	21.54
		25	0	22.50	21.60	21.51	21.41
	64QAM	1	0	22.50	22.20	22.10	22.20
		1	13	22.50	22.00	22.10	22.00
		1	24	22.50	22.20	22.30	22.20
		12	0	21.50	20.70	20.80	20.70
		12	6	21.50	20.60	20.50	20.60
		12	13	21.50	20.60	20.60	20.60
		25	0	21.50	20.50	20.50	20.40
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23900CH	23925CH	23950CH
10MHz	QPSK	1	0	24.50	23.58	23.57	23.65
		1	25	24.50	23.41	23.21	23.10
		1	49	24.50	23.58	23.66	23.58
		25	0	23.50	22.55	22.57	22.53
		25	13	23.50	22.48	22.51	22.49
		25	25	23.50	22.54	22.54	22.52
		50	0	23.50	22.53	22.54	22.54
	16QAM	1	0	23.50	22.57	22.71	22.64
		1	25	23.50	21.99	22.41	21.95
		1	49	23.50	22.61	22.69	22.45
		25	0	22.50	21.46	21.54	21.51
		25	13	22.50	21.49	21.48	21.45
		25	25	22.50	21.46	21.48	21.49
		50	0	22.50	21.45	21.47	21.42
	64QAM	1	0	22.50	22.30	22.30	22.30
		1	25	22.50	21.80	21.80	21.80
		1	49	22.50	22.10	22.10	22.10
		25	0	21.50	20.60	20.60	20.60
		25	13	21.50	20.50	20.60	20.70
		25	25	21.50	20.60	20.50	20.50
		50	0	21.50	20.50	20.60	20.60

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	/	23925CH	/
15MHz	QPSK	1	0	24.50	/	23.58	/
		1	38	24.50	/	23.51	/
		1	74	24.50	/	23.51	/
		36	0	23.50	/	22.59	/
		36	18	23.50	/	22.54	/
		36	39	23.50	/	22.62	/
		75	0	23.50	/	22.54	/
	16QAM	1	0	23.50	/	22.42	/
		1	38	23.50	/	22.36	/
		1	74	23.50	/	22.36	/
		36	0	22.50	/	21.55	/
		36	18	22.50	/	21.47	/
		36	39	22.50	/	21.52	/
		75	0	22.50	/	21.49	/
	64QAM	1	0	22.50	/	22.00	/
		1	38	22.50	/	22.10	/
		1	74	22.50	/	21.90	/
		36	0	21.50	/	20.70	/
		36	18	21.50	/	20.60	/
		36	39	21.50	/	20.60	/
		75	0	21.50	/	20.60	/

Table 117:Conducted power measurement results of LTE Band XVIII(Full Power)

7.1.27 Conducted power measurements of LTE Band XXX(main antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	27685CH	27710CH	27735CH
5MHz	QPSK	1	0	25.00	23.01	23.10	23.88
		1	13	25.00	23.92	23.56	24.00
		1	24	25.00	23.86	23.64	24.03
		12	0	24.00	22.33	22.08	22.55
		12	6	24.00	22.28	22.11	22.50
		12	13	24.00	22.22	22.18	22.50
		25	0	24.00	22.21	22.16	22.41
	16QAM	1	0	24.00	22.35	22.20	22.75
		1	13	24.00	22.30	22.24	22.72
		1	24	24.00	22.32	22.30	22.76
		12	0	23.00	21.62	21.64	22.00
		12	6	23.00	22.16	22.11	22.01
		12	13	23.00	21.57	21.73	21.97
		25	0	23.00	21.62	21.70	21.81
	64QAM	1	0	23.00	22.10	22.10	22.20
		1	13	23.00	22.00	22.00	22.10
		1	24	23.00	22.10	22.10	22.10
		12	0	22.00	20.60	20.70	20.60
		12	6	22.00	20.50	20.70	20.80
		12	13	22.00	20.70	20.80	20.80
		25	0	22.00	20.50	20.60	20.70
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	/	27710CH	/
10MHz	QPSK	1	0	25.00	/	23.51	/
		1	25	25.00	/	24.05	/
		1	49	25.00	/	23.60	/
		25	0	24.00	/	22.51	/
		25	13	24.00	/	22.00	/
		25	25	24.00	/	22.52	/
		50	0	24.00	/	22.51	/
	16QAM	1	0	24.00	/	22.64	/
		1	25	24.00	/	23.21	/
		1	49	24.00	/	22.70	/
		25	0	23.00	/	22.02	/
		25	13	23.00	/	21.96	/
		25	25	23.00	/	22.01	/
		50	0	23.00	/	21.97	/
	64QAM	1	0	23.00	/	22.80	/
		1	25	23.00	/	22.60	/
		1	49	23.00	/	22.10	/
		25	0	22.00	/	20.80	/
		25	13	22.00	/	20.70	/
		25	25	22.00	/	20.80	/
		50	0	22.00	/	20.80	/

Table 118:Conducted power measurement results of LTE Band XXX(Full Power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	27685CH	27710CH	27735CH
5MHz	QPSK	1	0	22.00	21.40	21.30	21.60
		1	13	22.00	21.30	21.20	20.56
		1	24	22.00	21.00	20.56	20.61
		12	0	22.00	21.20	20.54	20.60
		12	6	22.00	21.32	20.62	20.49
		12	13	22.00	21.23	20.60	20.62
		25	0	22.00	20.98	20.47	20.55
	16QAM	1	0	22.00	20.74	20.74	20.72
		1	13	22.00	20.57	20.78	20.71
		1	24	22.00	20.63	20.84	20.74
		12	0	22.00	20.45	20.53	20.50
		12	6	22.00	20.47	20.58	20.44
		12	13	22.00	20.42	20.53	20.54
		25	0	22.00	20.46	20.58	20.45
	64QAM	1	0	22.00	21.60	21.70	21.70
		1	13	22.00	21.50	21.50	21.50
		1	24	22.00	21.70	21.70	21.80
		12	0	22.00	21.50	21.50	21.50
		12	6	22.00	21.20	21.10	21.10
		12	13	22.00	21.10	21.10	21.10
		25	0	22.00	21.10	21.10	21.00
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	/	27710CH	/
10MHz	QPSK	1	0	22.00	/	21.14	/
		1	25	22.00	/	21.72	/
		1	49	22.00	/	21.14	/
		25	0	22.00	/	21.09	/
		25	13	22.00	/	21.08	/
		25	25	22.00	/	21.10	/
		50	0	22.00	/	21.20	/
	16QAM	1	0	22.00	/	21.30	/
		1	25	22.00	/	22.00	/
		1	49	22.00	/	21.50	/
		25	0	22.00	/	20.56	/
		25	13	22.00	/	20.64	/
		25	25	22.00	/	20.85	/
		50	0	22.00	/	20.55	/
	64QAM	1	0	22.00	/	21.39	/
		1	25	22.00	/	21.69	/
		1	49	22.00	/	21.29	/
		25	0	22.00	/	20.89	/
		25	13	22.00	/	20.79	/
		25	25	22.00	/	20.89	/
		50	0	22.00	/	20.69	/

Table 119:Conducted power measurement results of LTE Band XXX(Hotspot on +Sensor off)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	27685CH	27710CH	27735CH
5MHz	QPSK	1	0	24.00	22.92	22.98	23.05
		1	13	24.00	22.88	22.87	23.03
		1	24	24.00	22.98	23.03	23.00
		12	0	24.00	22.45	22.43	22.50
		12	6	24.00	22.33	22.40	22.48
		12	13	24.00	22.43	22.46	22.53
		25	0	24.00	22.36	22.44	22.48
	16QAM	1	0	24.00	22.48	22.50	22.78
		1	13	24.00	22.24	22.45	22.73
		1	24	24.00	22.42	22.53	22.76
		12	0	23.00	21.60	21.93	21.97
		12	6	23.00	21.86	21.94	22.00
		12	13	23.00	21.57	21.90	21.96
		25	0	23.00	21.60	21.85	21.84
	64QAM	1	0	23.00	22.30	22.40	22.10
		1	13	23.00	22.40	22.20	22.20
		1	24	23.00	22.20	22.30	22.10
		12	0	22.00	21.10	21.00	21.00
		12	6	22.00	21.00	21.00	21.00
		12	13	22.00	21.10	21.20	21.20
		25	0	22.00	21.00	21.10	21.20
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	/	27710CH	/
10MHz	QPSK	1	0	24.00	/	22.46	/
		1	25	24.00	/	22.70	/
		1	49	24.00	/	22.51	/
		25	0	24.00	/	22.06	/
		25	13	24.00	/	22.03	/
		25	25	24.00	/	22.01	/
		50	0	24.00	/	22.11	/
	16QAM	1	0	24.00	/	22.10	/
		1	25	24.00	/	22.43	/
		1	49	24.00	/	22.00	/
		25	0	23.00	/	21.57	/
		25	13	23.00	/	21.61	/
		25	25	23.00	/	21.48	/
		50	0	23.00	/	21.54	/
	64QAM	1	0	23.00	/	22.39	/
		1	25	23.00	/	22.49	/
		1	49	23.00	/	22.19	/
		25	0	22.00	/	20.89	/
		25	13	22.00	/	20.79	/
		25	25	22.00	/	20.89	/
		50	0	22.00	/	20.89	/

Table 120:Conducted power measurement results of LTE Band XXX(Sensor on+Hotspot off)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	27685CH	27710CH	27735CH
5MHz	QPSK	1	0	21.00	20.01	19.94	19.61
		1	13	21.00	19.88	19.97	20.05
		1	24	21.00	19.98	19.98	20.00
		12	0	21.00	20.00	19.96	19.96
		12	6	21.00	19.97	19.84	19.52
		12	13	21.00	19.97	19.92	19.97
		25	0	21.00	19.88	19.89	19.91
	16QAM	1	0	21.00	19.97	19.96	19.82
		1	13	21.00	19.84	20.02	19.84
		1	24	21.00	19.91	20.01	19.85
		12	0	21.00	19.92	19.91	19.89
		12	6	21.00	19.86	19.97	19.55
		12	13	21.00	19.86	19.92	19.87
		25	0	21.00	19.86	19.87	19.82
	64QAM	1	0	21.00	20.60	20.60	20.60
		1	13	21.00	20.50	20.50	20.50
		1	24	21.00	20.50	20.60	20.60
		12	0	21.00	20.00	20.10	20.10
		12	6	21.00	20.20	20.10	20.10
		12	13	21.00	20.10	20.20	20.20
		25	0	21.00	20.10	20.00	20.00
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	/	27710CH	/
10MHz	QPSK	1	0	21.00	/	19.94	/
		1	25	21.00	/	20.80	/
		1	49	21.00	/	19.85	/
		25	0	21.00	/	19.82	/
		25	13	21.00	/	19.89	/
		25	25	21.00	/	19.80	/
		50	0	21.00	/	19.88	/
	16QAM	1	0	21.00	/	19.98	/
		1	25	21.00	/	20.45	/
		1	49	21.00	/	19.96	/
		25	0	21.00	/	19.78	/
		25	13	21.00	/	19.77	/
		25	25	21.00	/	19.79	/
		50	0	21.00	/	19.80	/
	64QAM	1	0	21.00	/	20.13	/
		1	25	21.00	/	20.33	/
		1	49	21.00	/	19.93	/
		25	0	21.00	/	19.53	/
		25	13	21.00	/	19.43	/
		25	25	21.00	/	19.53	/
		50	0	21.00	/	19.53	/

Table 121:Conducted power measurement results of LTE Band XXX(Sensor on+Hotspot on)

7.1.28 Conducted power measurements of LTE Band LXVI(main antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131979CH	132322CH	132665CH
1.4MHz	QPSK	1	0	25.00	23.63	23.13	23.17
		1	3	25.00	23.62	23.00	23.01
		1	5	25.00	23.54	23.24	23.20
		3	0	24.00	23.55	23.98	23.88
		3	2	24.00	23.85	23.45	23.66
		3	3	24.00	23.77	23.89	23.96
		6	0	24.00	22.12	22.00	22.10
	16QAM	1	0	24.00	22.40	22.06	22.02
		1	3	24.00	22.07	22.20	22.12
		1	5	24.00	22.47	22.51	22.11
		3	0	23.00	22.11	21.95	22.16
		3	2	23.00	22.04	21.69	22.00
		3	3	23.00	22.26	22.07	21.97
		6	0	23.00	21.18	21.09	22.14
	64QAM	1	0	23.00	21.60	21.60	21.50
		1	3	23.00	21.20	21.20	21.10
		1	5	23.00	21.60	21.60	21.60
		3	0	22.00	21.30	21.40	21.30
		3	2	22.00	21.40	21.40	21.40
		3	3	22.00	21.20	21.30	21.30
		6	0	22.00	20.30	20.30	20.20
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131987CH	132322CH	132657CH
3MHz	QPSK	1	0	25.00	23.35	23.16	23.61
		1	7	25.00	23.36	23.27	23.49
		1	14	25.00	23.32	23.27	23.71
		8	0	24.00	22.14	22.12	22.24
		8	4	24.00	22.30	22.10	22.01
		8	7	24.00	22.10	22.00	22.01
		15	0	24.00	22.05	22.01	22.01
	16QAM	1	0	24.00	22.21	22.46	22.47
		1	7	24.00	22.29	22.33	22.57
		1	14	24.00	22.36	22.44	22.62
		8	0	23.00	21.35	21.30	21.25
		8	4	23.00	21.39	21.18	21.16
		8	7	23.00	21.15	21.16	21.04
		15	0	23.00	21.26	21.17	21.20
	64QAM	1	0	23.00	21.70	21.70	21.50
		1	7	23.00	21.10	21.10	21.00
		1	14	23.00	21.60	21.70	21.70
		8	0	22.00	20.30	20.40	20.40
		8	4	22.00	20.40	20.40	20.50
		8	7	22.00	20.50	20.50	20.50
		15	0	22.00	20.40	20.30	20.30

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131997CH	132322CH	132647CH
5MHz	QPSK	1	0	25.00	23.45	23.69	23.25
		1	13	25.00	23.37	23.68	23.32
		1	24	25.00	23.38	23.65	23.35
		12	0	24.00	22.15	22.25	22.10
		12	6	24.00	22.06	22.15	22.07
		12	13	24.00	22.09	22.22	22.16
		25	0	24.00	22.18	22.25	22.13
	16QAM	1	0	24.00	22.56	22.57	22.49
		1	13	24.00	22.55	22.54	22.55
		1	24	24.00	22.58	22.53	22.51
		12	0	23.00	21.38	21.49	21.32
		12	6	23.00	21.27	21.35	21.31
		12	13	23.00	21.38	21.49	21.35
		25	0	23.00	21.30	21.45	21.20
	64QAM	1	0	23.00	21.40	21.40	21.30
		1	13	23.00	21.70	21.70	21.60
		1	24	23.00	21.70	21.80	21.80
		12	0	22.00	20.40	20.50	20.50
		12	6	22.00	20.50	20.50	20.60
		12	13	22.00	20.50	20.60	20.60
		25	0	22.00	20.50	20.50	20.40
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132022CH	132322CH	132622CH
10MHz	QPSK	1	0	25.00	23.38	23.91	23.41
		1	25	25.00	23.14	23.52	23.03
		1	49	25.00	23.50	23.81	23.43
		25	0	24.00	22.17	22.32	22.22
		25	13	24.00	22.17	22.31	22.18
		25	25	24.00	22.18	22.32	22.19
		50	0	24.00	22.19	22.25	22.22
	16QAM	1	0	24.00	22.29	22.62	22.53
		1	25	24.00	22.00	22.44	22.43
		1	49	24.00	22.40	22.67	22.55
		25	0	23.00	21.39	21.52	21.36
		25	13	23.00	21.44	21.43	21.30
		25	25	23.00	21.42	21.56	21.33
		50	0	23.00	21.37	21.42	21.29
	64QAM	1	0	23.00	22.00	22.00	22.10
		1	25	23.00	21.60	21.60	21.50
		1	49	23.00	21.90	21.90	21.80
		25	0	22.00	20.30	20.40	20.40
		25	13	22.00	20.40	20.50	20.50
		25	25	22.00	20.50	20.50	20.50
		50	0	22.00	20.50	20.50	20.50

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132047CH	132322CH	132597CH
15MHz	QPSK	1	0	25.00	23.47	23.73	23.73
		1	38	25.00	23.50	23.72	23.53
		1	74	25.00	23.42	23.61	23.49
		36	0	24.00	22.24	22.44	22.37
		36	18	24.00	22.27	22.40	22.33
		36	39	24.00	22.24	22.40	22.28
		75	0	24.00	22.26	22.42	22.34
	16QAM	1	0	24.00	22.47	22.78	22.54
		1	38	24.00	22.62	22.80	22.51
		1	74	24.00	22.56	22.75	22.56
		36	0	23.00	21.38	21.65	21.54
		36	18	23.00	21.44	21.59	21.46
		36	39	23.00	21.46	21.64	21.53
		75	0	23.00	21.45	21.55	21.47
	64QAM	1	0	23.00	21.20	21.30	21.30
		1	38	23.00	21.80	21.80	21.70
		1	74	23.00	21.70	21.70	21.60
		36	0	22.00	20.60	20.50	20.50
		36	18	22.00	20.50	20.60	20.60
		36	39	22.00	20.50	20.50	20.50
		75	0	22.00	20.40	20.40	20.30
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132072CH	132322CH	132572CH
20MHz	QPSK	1	0	25.00	23.74	23.69	23.75
		1	50	25.00	23.43	23.67	23.39
		1	99	25.00	23.85	23.74	23.91
		50	0	24.00	22.50	22.42	22.52
		50	25	24.00	22.53	22.50	22.55
		50	50	24.00	22.52	22.54	22.60
		100	0	24.00	22.52	22.46	22.51
	16QAM	1	0	24.00	22.74	22.61	22.79
		1	50	24.00	22.92	22.50	22.88
		1	99	24.00	22.94	22.83	22.95
		50	0	23.00	21.69	21.64	21.75
		50	25	23.00	21.73	21.69	21.77
		50	50	23.00	21.81	21.80	21.75
		100	0	23.00	21.73	21.59	21.66
	64QAM	1	0	23.00	22.30	22.30	22.20
		1	50	23.00	21.60	21.70	21.60
		1	99	23.00	22.20	22.10	22.40
		50	0	22.00	20.80	20.70	20.60
		50	25	22.00	20.80	20.80	20.80
		50	50	22.00	20.70	20.80	20.80
		100	0	22.00	21.00	21.00	21.10

Table 122:Conducted power measurement results of LTE Band LXVI(Full Power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131979CH	132322CH	132665CH
1.4MHz	QPSK	1	0	19.50	18.92	18.85	19.09
		1	3	19.50	18.75	18.77	18.85
		1	5	19.50	18.89	18.88	19.02
		3	0	19.50	18.74	18.79	18.89
		3	2	19.50	18.56	18.74	18.46
		3	3	19.50	18.87	18.65	18.87
		6	0	19.50	18.80	18.74	18.94
	16QAM	1	0	19.50	18.90	18.77	18.76
		1	3	19.50	18.39	18.90	18.26
		1	5	19.50	18.88	18.91	19.05
		3	0	19.50	18.66	18.91	18.95
		3	2	19.50	18.66	18.95	18.71
		3	3	19.50	18.73	18.82	19.10
		6	0	19.50	19.01	18.67	18.85
	64QAM	1	0	19.50	19.20	19.20	19.30
		1	3	19.50	19.20	19.10	19.10
		1	5	19.50	19.20	19.20	19.30
		3	0	19.50	19.20	19.30	19.10
		3	2	19.50	19.30	19.30	19.30
		3	3	19.50	19.40	19.40	19.30
		6	0	19.50	19.20	19.10	19.10
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131987CH	132322CH	132657CH
3MHz	QPSK	1	0	19.50	19.06	19.06	19.09
		1	7	19.50	19.02	19.10	18.94
		1	14	19.50	19.05	19.09	19.01
		8	0	19.50	18.95	18.95	19.06
		8	4	19.50	18.90	18.91	18.98
		8	7	19.50	18.68	19.04	19.00
		15	0	19.50	18.93	19.03	18.95
	16QAM	1	0	19.50	18.88	18.98	19.13
		1	7	19.50	18.95	18.96	19.19
		1	14	19.50	18.87	18.95	19.31
		8	0	19.50	18.89	18.91	18.98
		8	4	19.50	18.81	18.91	18.93
		8	7	19.50	18.95	18.99	18.96
		15	0	19.50	18.83	18.91	19.04
	64QAM	1	0	19.50	19.50	19.40	19.30
		1	7	19.50	19.30	19.30	19.20
		1	14	19.50	19.50	19.50	19.40
		8	0	19.50	19.30	19.20	19.30
		8	4	19.50	19.10	19.20	19.10
		8	7	19.50	19.30	19.20	19.20
		15	0	19.50	19.20	19.10	19.10

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131997CH	132322CH	132647CH
5MHz	QPSK	1	0	19.50	19.01	19.02	19.04
		1	13	19.50	19.09	18.98	19.05
		1	24	19.50	19.03	19.04	19.02
		12	0	19.50	19.05	19.00	18.99
		12	6	19.50	19.09	18.95	19.00
		12	13	19.50	19.06	19.04	19.04
		25	0	19.50	19.03	19.02	18.92
	16QAM	1	0	19.50	19.04	19.12	18.99
		1	13	19.50	19.05	19.13	19.06
		1	24	19.50	19.10	19.10	19.01
		12	0	19.50	19.01	19.09	18.99
		12	6	19.50	18.91	19.01	18.94
		12	13	19.50	19.03	19.07	19.01
		25	0	19.50	18.90	19.10	18.88
	64QAM	1	0	19.50	19.50	19.50	19.40
		1	13	19.50	19.30	19.40	19.30
		1	24	19.50	19.40	19.30	19.40
		12	0	19.50	19.10	19.20	19.10
		12	6	19.50	19.30	19.10	19.20
		12	13	19.50	19.30	19.30	19.30
		25	0	19.50	19.20	19.20	19.20
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132022CH	132322CH	132622CH
10MHz	QPSK	1	0	19.50	18.95	19.15	19.03
		1	25	19.50	18.82	19.06	18.65
		1	49	19.50	19.12	19.17	18.98
		25	0	19.50	19.07	19.13	19.06
		25	13	19.50	19.05	19.13	18.97
		25	25	19.50	19.04	19.17	19.04
		50	0	19.50	19.04	19.06	19.05
	16QAM	1	0	19.50	19.05	19.14	19.13
		1	25	19.50	18.69	18.69	18.83
		1	49	19.50	19.09	19.19	19.16
		25	0	19.50	19.00	19.07	18.94
		25	13	19.50	18.97	19.06	18.97
		25	25	19.50	18.99	19.06	18.96
		50	0	19.50	18.96	19.00	18.86
	64QAM	1	0	19.50	19.30	19.40	19.30
		1	25	19.50	19.30	19.50	19.20
		1	49	19.50	19.10	19.30	19.10
		25	0	19.50	19.40	19.40	19.50
		25	13	19.50	19.20	19.30	19.20
		25	25	19.50	19.20	19.30	19.30
		50	0	19.50	19.30	19.30	19.30

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132047CH	132322CH	132597CH
15MHz	QPSK	1	0	19.50	19.21	19.21	19.16
		1	38	19.50	19.32	19.26	19.25
		1	74	19.50	19.29	19.17	19.21
		36	0	19.50	19.20	19.31	19.28
		36	18	19.50	19.23	19.27	19.24
		36	39	19.50	19.25	19.26	19.30
		75	0	19.50	19.24	19.24	19.27
	16QAM	1	0	19.50	19.14	19.32	19.39
		1	38	19.50	19.27	19.23	19.41
		1	74	19.50	19.25	19.35	19.43
		36	0	19.50	19.20	19.27	19.24
		36	18	19.50	19.20	19.14	19.22
		36	39	19.50	19.24	19.20	19.24
		75	0	19.50	19.16	19.22	19.16
	64QAM	1	0	19.50	19.20	19.30	19.20
		1	38	19.50	19.30	19.50	19.30
		1	74	19.50	19.40	19.50	19.50
		36	0	19.50	19.30	19.20	19.10
		36	18	19.50	19.20	19.30	19.40
		36	39	19.50	19.40	19.30	19.30
		75	0	19.50	19.20	19.30	19.30
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132072CH	132322CH	132572CH
20MHz	QPSK	1	0	19.50	19.12	19.22	19.25
		1	50	19.50	18.85	19.10	19.04
		1	99	19.50	19.27	19.28	19.16
		50	0	19.50	19.14	19.27	19.23
		50	25	19.50	19.21	19.21	19.17
		50	50	19.50	19.22	19.22	19.17
		100	0	19.50	19.17	19.29	19.26
	16QAM	1	0	19.50	19.23	19.19	19.42
		1	50	19.50	19.20	18.63	19.25
		1	99	19.50	19.24	19.23	19.29
		50	0	19.50	19.14	19.20	19.17
		50	25	19.50	19.14	19.11	19.06
		50	50	19.50	19.18	19.16	19.10
		100	0	19.50	19.09	19.23	19.16
	64QAM	1	0	19.50	19.40	19.40	19.30
		1	50	19.50	19.30	19.10	19.20
		1	99	19.50	19.40	19.40	19.40
		50	0	19.50	19.10	19.20	19.30
		50	25	19.50	19.30	19.30	19.20
		50	50	19.50	19.20	19.20	19.10
		100	0	19.50	19.30	19.20	19.30

Table 123:Conducted power measurement results of LTE Band LXVI(Hotspot on +Sensor off)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131979CH	132322CH	132665CH
1.4MHz	QPSK	1	0	22.50	22.03	21.99	22.08
		1	3	22.50	21.97	21.92	21.70
		1	5	22.50	22.09	22.08	22.05
		3	0	22.50	21.79	21.83	22.05
		3	2	22.50	21.32	21.34	21.87
		3	3	22.50	21.88	21.78	21.90
		6	0	22.50	22.03	21.99	21.87
	16QAM	1	0	22.50	21.96	21.92	21.85
		1	3	22.50	21.84	21.82	22.05
		1	5	22.50	22.03	21.96	22.29
		3	0	22.50	21.81	21.79	22.14
		3	2	22.50	21.51	21.40	22.10
		3	3	22.50	22.04	22.05	22.12
		6	0	22.50	21.37	21.31	21.54
	64QAM	1	0	22.50	21.70	21.70	21.60
		1	3	22.50	21.20	21.20	21.20
		1	5	22.50	21.60	21.60	21.50
		3	0	22.00	21.20	21.30	21.30
		3	2	22.00	21.30	21.30	21.20
		3	3	22.00	21.30	21.30	21.30
		6	0	22.00	20.30	20.10	20.10
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131987CH	132322CH	132657CH
3MHz	QPSK	1	0	22.50	22.06	22.15	21.50
		1	7	22.50	22.07	22.15	21.55
		1	14	22.50	22.14	22.04	21.54
		8	0	22.50	22.07	22.13	21.60
		8	4	22.50	22.10	22.08	21.50
		8	7	22.50	21.97	22.07	21.45
		15	0	22.50	22.08	22.10	21.49
	16QAM	1	0	22.50	22.03	22.20	21.86
		1	7	22.50	22.31	22.25	21.85
		1	14	22.50	22.37	22.16	21.76
		8	0	22.50	21.54	21.61	20.99
		8	4	22.50	21.49	21.61	20.94
		8	7	22.50	21.52	21.51	21.06
		15	0	22.50	21.52	21.60	21.02
	64QAM	1	0	22.50	20.60	21.60	21.50
		1	7	22.50	21.30	21.30	21.20
		1	14	22.50	21.50	21.60	21.60
		8	0	22.00	20.20	20.10	20.10
		8	4	22.00	20.10	20.10	20.20
		8	7	22.00	20.10	20.20	20.20
		15	0	22.00	20.20	20.10	20.10

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131997CH	132322CH	132647CH
5MHz	QPSK	1	0	22.50	21.92	21.92	21.93
		1	13	22.50	21.98	21.93	21.90
		1	24	22.50	21.96	21.96	21.91
		12	0	22.50	21.91	21.93	21.91
		12	6	22.50	21.92	21.86	21.88
		12	13	22.50	21.99	21.97	21.95
		25	0	22.50	21.89	21.86	21.84
	16QAM	1	0	22.50	22.04	21.90	22.03
		1	13	22.50	22.00	21.88	22.03
		1	24	22.50	21.98	21.89	22.10
		12	0	22.50	21.41	21.43	21.38
		12	6	22.50	21.40	21.45	21.39
		12	13	22.50	21.46	21.54	21.38
		25	0	22.50	21.30	21.42	21.46
	64QAM	1	0	22.50	22.20	22.30	22.30
		1	13	22.50	22.10	22.10	22.10
		1	24	22.50	22.10	22.20	22.20
		12	0	22.00	20.70	20.60	20.60
		12	6	22.00	20.60	20.60	20.50
		12	13	22.00	20.50	20.70	20.70
		25	0	22.00	20.70	20.60	20.60
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132022CH	132322CH	132622CH
10MHz	QPSK	1	0	22.50	22.23	21.97	22.17
		1	25	22.50	22.11	21.99	22.24
		1	49	22.50	22.27	22.08	22.24
		25	0	22.50	22.22	21.99	22.19
		25	13	22.50	22.15	22.02	22.22
		25	25	22.50	22.18	21.98	22.18
		50	0	22.50	22.09	21.99	22.23
	16QAM	1	0	22.50	22.08	21.90	22.38
		1	25	22.50	22.12	21.54	21.91
		1	49	22.50	22.15	21.87	22.26
		25	0	22.50	21.60	21.43	21.56
		25	13	22.50	21.63	21.43	21.56
		25	25	22.50	21.59	21.47	21.68
		50	0	22.50	21.52	21.41	21.58
	64QAM	1	0	22.50	22.10	22.30	22.20
		1	25	22.50	21.90	21.80	21.70
		1	49	22.50	22.10	22.20	22.10
		25	0	22.00	20.80	20.70	20.80
		25	13	22.00	20.60	20.70	20.80
		25	25	22.00	20.70	20.70	20.60
		50	0	22.00	20.70	20.80	20.70

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132047CH	132322CH	132597CH
15MHz	QPSK	1	0	22.50	22.08	21.83	22.11
		1	38	22.50	22.12	21.96	22.13
		1	74	22.50	22.02	21.93	22.13
		36	0	22.50	22.08	21.88	22.27
		36	18	22.50	22.03	21.90	22.17
		36	39	22.50	22.01	21.93	22.20
		75	0	22.50	22.00	21.82	22.13
	16QAM	1	0	22.50	22.15	21.64	22.30
		1	38	22.50	22.24	21.74	22.29
		1	74	22.50	22.11	21.70	22.26
		36	0	22.50	21.45	21.32	21.69
		36	18	22.50	21.42	21.38	21.63
		36	39	22.50	21.37	21.47	21.65
		75	0	22.50	21.40	21.25	21.57
	64QAM	1	0	22.50	22.10	22.10	22.20
		1	38	22.50	22.20	22.30	22.10
		1	74	22.50	22.30	22.10	22.10
		36	0	22.00	20.70	20.80	20.80
		36	18	22.00	20.80	20.90	20.90
		36	39	22.00	20.90	20.90	20.80
		75	0	22.00	20.80	20.90	20.90
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132072CH	132322CH	132572CH
20MHz	QPSK	1	0	22.50	21.48	21.70	21.62
		1	50	22.50	20.94	21.62	21.49
		1	99	22.50	21.49	21.90	21.67
		50	0	22.50	21.60	21.67	21.71
		50	25	22.50	21.55	21.65	21.63
		50	50	22.50	21.62	21.65	21.67
		100	0	22.50	21.68	21.66	21.77
	16QAM	1	0	22.50	21.75	21.86	21.71
		1	50	22.50	21.42	21.57	21.56
		1	99	22.50	21.66	21.75	22.00
		50	0	22.50	21.04	21.04	21.14
		50	25	22.50	21.00	21.05	21.08
		50	50	22.50	21.03	21.15	21.21
		100	0	22.50	21.08	21.06	21.17
	64QAM	1	0	22.50	21.20	21.38	21.40
		1	50	22.50	21.30	21.10	21.10
		1	99	22.50	21.40	21.48	21.50
		50	0	22.00	20.70	20.80	20.70
		50	25	22.00	20.90	20.90	20.80
		50	50	22.00	20.80	20.90	20.70
		100	0	22.00	20.70	20.80	20.80

Table 124:Conducted power measurement results of LTE Band LXVI(Sensor on+Hotspot off)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131979CH	132322CH	132665CH
1.4MHz	QPSK	1	0	17.00	16.62	16.64	16.69
		1	3	17.00	16.62	16.27	16.32
		1	5	17.00	16.69	16.70	16.64
		3	0	17.00	16.69	16.50	16.49
		3	2	17.00	16.53	16.71	16.54
		3	3	17.00	16.48	16.40	16.48
		6	0	17.00	16.24	16.59	16.25
	16QAM	1	0	17.00	16.60	16.47	16.57
		1	3	17.00	16.65	15.90	16.50
		1	5	17.00	16.74	16.50	16.49
		3	0	17.00	16.46	16.44	16.45
		3	2	17.00	16.65	16.20	16.56
		3	3	17.00	16.60	16.54	16.59
		6	0	17.00	16.65	16.42	16.58
	64QAM	1	0	17.00	16.90	16.90	16.70
		1	3	17.00	16.80	17.00	16.90
		1	5	17.00	17.00	17.00	17.00
		3	0	17.00	16.80	16.90	16.90
		3	2	17.00	16.90	16.90	16.80
		3	3	17.00	16.80	16.90	16.80
		6	0	17.00	16.70	16.80	16.70
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131987CH	132322CH	132657CH
3MHz	QPSK	1	0	17.00	16.62	16.65	16.67
		1	7	17.00	16.68	16.63	16.52
		1	14	17.00	16.70	16.64	16.62
		8	0	17.00	16.41	16.56	16.63
		8	4	17.00	16.59	16.64	16.50
		8	7	17.00	16.47	16.64	16.55
		15	0	17.00	16.58	16.60	16.59
	16QAM	1	0	17.00	16.66	16.71	16.88
		1	7	17.00	16.69	16.64	16.91
		1	14	17.00	16.86	16.66	16.94
		8	0	17.00	16.51	16.62	16.30
		8	4	17.00	16.51	16.54	16.17
		8	7	17.00	16.58	16.71	16.53
		15	0	17.00	16.63	16.56	16.49
	64QAM	1	0	17.00	16.60	17.00	16.90
		1	7	17.00	16.80	16.70	16.80
		1	14	17.00	16.70	17.00	17.00
		8	0	17.00	16.80	16.80	16.70
		8	4	17.00	16.90	16.80	16.70
		8	7	17.00	16.80	16.90	16.80
		15	0	17.00	16.80	16.70	16.70

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131997CH	132322CH	132647CH
5MHz	QPSK	1	0	17.00	16.58	16.61	16.56
		1	13	17.00	16.59	16.65	16.64
		1	24	17.00	16.71	16.64	16.62
		12	0	17.00	16.60	16.67	16.58
		12	6	17.00	16.62	16.61	16.57
		12	13	17.00	16.69	16.63	16.61
		25	0	17.00	16.57	16.58	16.64
	16QAM	1	0	17.00	16.58	16.83	16.78
		1	13	17.00	16.61	16.80	16.79
		1	24	17.00	16.72	16.84	16.92
		12	0	17.00	16.57	16.68	16.65
		12	6	17.00	16.63	16.59	16.57
		12	13	17.00	16.66	16.63	16.65
		25	0	17.00	16.59	16.63	16.60
	64QAM	1	0	17.00	16.90	17.00	17.00
		1	13	17.00	16.70	16.90	16.80
		1	24	17.00	16.80	16.80	16.70
		12	0	17.00	16.90	16.90	16.80
		12	6	17.00	16.70	16.70	16.70
		12	13	17.00	16.80	16.80	16.80
		25	0	17.00	16.80	16.70	16.80
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132022CH	132322CH	132622CH
10MHz	QPSK	1	0	17.00	16.74	16.60	16.54
		1	25	17.00	16.38	16.18	16.26
		1	49	17.00	16.66	16.58	16.62
		25	0	17.00	16.61	16.61	16.64
		25	13	17.00	16.59	16.66	16.60
		25	25	17.00	16.61	16.60	16.62
		50	0	17.00	16.62	16.60	16.64
	16QAM	1	0	17.00	16.72	16.68	16.63
		1	25	17.00	15.85	16.27	16.52
		1	49	17.00	16.73	16.58	16.85
		25	0	17.00	16.57	16.57	16.57
		25	13	17.00	16.57	16.53	16.60
		25	25	17.00	16.62	16.57	16.55
		50	0	17.00	16.51	16.45	16.54
	64QAM	1	0	17.00	16.80	17.00	16.80
		1	25	17.00	16.80	16.90	16.70
		1	49	17.00	17.00	17.00	17.00
		25	0	17.00	16.70	16.90	16.80
		25	13	17.00	16.80	16.80	16.90
		25	25	17.00	16.70	16.80	16.80
		50	0	17.00	16.80	16.80	16.80

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132047CH	132322CH	132597CH
15MHz	QPSK	1	0	17.00	16.64	16.57	16.49
		1	38	17.00	16.70	16.57	16.64
		1	74	17.00	16.66	16.56	16.57
		36	0	17.00	16.68	16.66	16.60
		36	18	17.00	16.59	16.64	16.61
		36	39	17.00	16.64	16.72	16.72
		75	0	17.00	16.57	16.65	16.60
	16QAM	1	0	17.00	16.60	16.76	16.44
		1	38	17.00	16.52	16.76	16.54
		1	74	17.00	16.67	16.83	16.51
		36	0	17.00	16.63	16.60	16.64
		36	18	17.00	16.53	16.59	16.62
		36	39	17.00	16.58	16.60	16.66
		75	0	17.00	16.58	16.50	16.54
	64QAM	1	0	17.00	16.70	16.90	16.80
		1	38	17.00	17.00	17.00	17.00
		1	74	17.00	16.90	17.00	17.00
		36	0	17.00	16.80	16.80	16.70
		36	18	17.00	16.70	16.80	16.80
		36	39	17.00	16.70	16.80	16.70
		75	0	17.00	16.80	16.80	16.70
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132072CH	132322CH	132572CH
20MHz	QPSK	1	0	17.00	16.61	16.64	16.59
		1	50	17.00	16.52	16.54	16.28
		1	99	17.00	16.64	16.61	16.66
		50	0	17.00	16.64	16.65	16.65
		50	25	17.00	16.52	16.61	16.62
		50	50	17.00	16.61	16.61	16.64
		100	0	17.00	16.62	16.68	16.67
	16QAM	1	0	17.00	16.83	16.95	16.76
		1	50	17.00	16.18	16.69	16.28
		1	99	17.00	16.85	16.81	16.82
		50	0	17.00	16.60	16.57	16.57
		50	25	17.00	16.51	16.58	16.55
		50	50	17.00	16.58	16.57	16.59
		100	0	17.00	16.55	16.61	16.58
	64QAM	1	0	17.00	16.80	16.90	16.80
		1	50	17.00	16.70	16.80	16.70
		1	99	17.00	16.90	17.00	17.00
		50	0	17.00	16.50	16.40	16.50
		50	25	17.00	16.90	16.70	16.70
		50	50	17.00	16.60	16.80	16.70
		100	0	17.00	16.80	16.80	16.80

Table 125:Conducted power measurement results of LTE Band LXVI(Sensor on+Hotspot on)

7.1.29 Conducted power measurements of downlink LTE CA

The following conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A.

Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.

Power test equipment: R&S Radio Communication Tester CMW500 and/or Anritsu Radio Communication Analyzer MT8821C were used.

According to 201711 FCC RF Exposure TCB workshop slides, in applying the existing power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, the configurations that require power measurements are highlighted in the table as below:

DL Intra-band Non-contiguous	DL Intra-band contiguous
CA_2A-2A	CA_5B
CA_66A-66A	

2 bands / 2CC	2 bands / 3CC	2 bands / 4CC	2 bands / 5CC	3 bands / 3CC	3 bands / 4CC	3 bands / 5CC	4 bands / 4CC	4 bands / 5CC
CA_2A-5A(0)(1)				CA_2A-5A-30A(0)	CA_2A-2A-5A-30A(0)			CA_2A-2A-5A-30A-66A(0)
				CA_2A-5A-66A(0)	CA_2A-2A-5A-66A(0)	CA_2A-2A-5A-66A-66A(0)		
					CA_2A-5B-30A(0)			CA_2A-5B-30A-66A(0)
					CA_2A-5B-66A(0)			CA_2A-5B-30A-66A(0)
							CA_2A-5A-30A-66A(0)	CA_2A-2A-5A-30A-66A(0)
CA_2A-12A(0)(1)(2)	CA_2A-2A-12A(0)				CA_2A-2A-12A-30A(0)			CA_2A-2A-12A-30A-66A(0)
					CA_2A-12A-66A(0)(1)	CA_2A-2A-12A-66A(0)		CA_2A-2A-12A-30A-66A(0)
							CA_2A-12A-30A-66A(0)	CA_2A-2A-12A-30A-66A(0)
CA_2A-29A(0)(1)(2)				CA_2A-29A-30A(0)				
CA_2A-30A(0)	CA_2A-2A-30A(0)				CA_2A-2A-5A-30A(0)			CA_2A-2A-5A-30A-66A(0)
				CA_2A-30A-66A(0)	CA_2A-30A-66A-66A(0)			CA_2A-5A-30A-66A-66A(0)
CA_2A-46A(0)								
	CA_2A-46C(0)							
		CA_2A-46D(0)						
CA_2A-66A(0)(1)(2)	CA_2A-2A-66A(0)	CA_2A-2A-66A-66A(0)				CA_2A-2A-5A-66A-66A(0)		
	CA_2A-66A-66A(0)	CA_2A-2A-66A-66A(0)				CA_2A-2A-5A-66A-66A(0)		
CA_5A-30A(0)				CA_2A-5A-30A(0)	CA_2A-2A-5A-30A(0)			CA_2A-2A-5A-30A-66A(0)
				CA_5A-30A-66A(0)	CA_5A-30A-66A-66A(0)			CA_2A-5A-30A-66A-66A(0)
					CA_5B-30A-66A(0)			CA_2A-5B-30A-66A(0)
CA_5A-66A(0)	CA_5A-66A-66A(0)				CA_2A-5A-66A-66A(0)	CA_2A-2A-5A-66A-66A(0)		
		CA_5B-66A-66A(0)						
CA_12A-30A(0)				CA_2A-12A-30A(0)	CA_2A-2A-12A-30A(0)			CA_2A-2A-12A-30A-66A(0)
				CA_12A-30A-66A(0)	CA_12A-30A-66A-66A(0)			
CA_12A-66A(0)(1)(2)(3)(4)(5)	CA_12A-66A-66A(0)				CA_2A-12A-66A-66A(0)			
CA_29A-30A(0)				CA_2A-29A-30A(0)				
CA_29A-66A(0)				CA_29A-30A-66A(0)				
CA_30A-66A(0)	CA_30A-66A-66A(0)				CA_2A-30A-66A-66A(0)			CA_2A-5A-30A-66A-66A(0)
CA_46A-66A(0)								
	CA_46C-66A(0)							
		CA_46D-66A(0)						
			CA_46E-66A(0)					

DL LTE CA Class	PCC								SCC1			SCC 2			SCC 3			SCC 4			Power			
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	Rel 8 LTE Tx Power (dBm)	DL LTE CA Tx Power (dBm)	Tune-up
CA_5B	5	10	64QAM	25	25	50	0	20600	2600	5	10	2501	/	/	/	/	/	/	/	/	/	20.82	20.18	21.00
CA_2A-2A	2	20	64QAM	50	0	100	0	19100	1100	2	20	700	/	/	/	/	/	/	/	/	/	20.27	19.71	20.50
CA_66A-66A	66	20	64QAM	1	0	100	0	132322	66786	66	20	67236	/	/	/	/	/	/	/	/	/	20.47	19.95	20.50
CA_2A-46A(0)	2	20	64QAM	50	0	100	0	19100	1100	46	20	50690	/	/	/	/	/	/	/	/	/	20.27	18.73	20.50
CA_46A-66A(0)	66	20	64QAM	1	0	100	0	132322	66786	46	20	50690	/	/	/	/	/	/	/	/	/	20.47	19.40	20.50
CA_2A-46C(0)	2	20	64QAM	50	0	100	0	19100	1100	46	20	50692	46	20	50890	/	/	/	/	/	/	20.27	19.74	20.50
CA_46C-66A(0)	66	20	64QAM	1	0	100	0	132322	66786	46	20	50692	46	20	50890	/	/	/	/	/	/	20.47	18.96	20.50
CA_2A-46D(0)	2	20	64QAM	50	0	100	0	19100	1100	46	20	50492	46	20	50690	46	20	50888	/	/	/	20.27	18.76	20.50
CA_46D-66A(0)	66	20	64QAM	1	0	100	0	132322	66786	46	20	50492	46	20	50690	46	20	50888	/	/	/	20.47	19.00	20.50
CA_5B-66A-66A(0)	5	10	64QAM	25	25	50	0	20600	2600	5	10	2501	66	20	66536	66	20	67236	/	/	/	20.82	20.16	21.00
	66	20	64QAM	1	0	100	0	132322	66786	66	20	67236	5	10	2476	5	10	2575	/	/	/	20.47	20.01	20.50
CA_46E-66A(0)	66	20	64QAM	1	0	100	0	132322	66786	46	20	50490	46	20	50688	46	20	50889	46	20	51090	20.47	19.17	20.50
CA_2A-29A-30A(0)	2	20	64QAM	50	0	100	0	19100	1100	29	10	9715	30	10	9820	/	/	/	/	/	/	20.27	18.35	20.50
	30	10	QPSK	1	25	50	0	27710	9820	2	20	900	29	10	9715	/	/	/	/	/	/	21.72	20.64	22.00
CA_29A-30A-66A(0)	30	10	QPSK	1	25	50	0	27710	9820	29	10	9715	66	20	66886	/	/	/	/	/	/	21.72	20.47	22.00
	66	20	64QAM	1	0	100	0	132322	66786	29	10	9715	30	10	9820	/	/	/	/	/	/	20.47	18.41	20.50
CA_2A-12A-66A-66A(0)	2	20	64QAM	50	0	100	0	19100	1100	12	10	5095	66	20	66536	66	20	67236	/	/	/	20.27	19.69	20.50
	66	20	64QAM	1	0	100	0	132322	66786	66	20	67236	2	20	900	12	10	5095	/	/	/	20.47	20.04	20.50
CA_12A-30A-66A-66A(0)	30	10	QPSK	1	25	50	0	27710	9820	12	10	5095	66	20	66536	66	20	67236	/	/	/	21.72	20.64	22.00
	66	20	64QAM	1	0	100	0	132322	66786	66	20	67236	12	10	5095	30	10	9820	/	/	/	20.47	18.51	20.50
CA_2A-2A-5A-66A-66A(0)	2	20	64QAM	50	0	100	0	19100	1100	2	20	700	5	10	2525	66	20	66536	66	20	67236	20.27	19.72	20.50
	5	10	64QAM	25	25	50	0	20600	2600	2	20	700	2	20	1100	66	20	66536	66	20	67236	20.82	20.20	21.00
	66	20	64QAM	1	0	100	0	132322	66786	66	20	67236	2	20	700	2	20	1100	5	10	2525	20.47	20.05	20.50
CA_2A-2A-5A-30A-66A(0)	2	20	64QAM	50	0	100	0	19100	1100	2	20	700	5	10	2525	30	10	9820	66	20	66886	20.27	18.30	20.50
	5	10	64QAM	25	25	50	0	20600	2600	2	20	700	2	20	1100	30	10	9820	66	20	66886	20.82	20.17	21.00
	30	10	QPSK	1	25	50	0	27710	9820	2	20	700	2	20	1100	5	10	2525	66	20	66886	21.72	20.85	22.00
	66	20	64QAM	1	0	100	0	132322	66786	2	20	700	2	20	1100	5	10	2525	30	10	9820	20.47	18.63	20.50
CA_2A-2A-12A-30A-66A(0)	2	20	64QAM	50	0	100	0	19100	1100	2	20	700	12	10	5095	30	10	9820	66	20	66886	20.27	18.28	20.50
	30	10	QPSK	1	25	50	0	27710	9820	2	20	700	2	20	1100	12	10	5095	66	20	66886	21.72	20.67	22.00
	66	20	64QAM	1	0	100	0	132322	66786	2	20	700	2	20	1100	12	10	5095	30	10	9820	20.47	18.62	20.50
CA_2A-5A-30A-66A-66A(0)	2	20	64QAM	50	0	100	0	19100	1100	5	10	2525	30	10	9820	66	20	66536	66	20	67236	20.27	18.35	20.50
	5	10	64QAM	25	25	50	0	20600	2600	2	20	900	30	10	9820	66	20	66536	66	20	67236	20.82	20.23	21.00
	30	10	QPSK	1	25	50	0	27710	9820	2	20	900	5	10	2525	66	20	66536	66	20	67236	21.72	20.21	22.00
	66	20	64QAM	1	0	100	0	132322	66786	66	20	67236	2	20	900	5	10	2525	30	10	9820	20.47	18.48	20.50
CA_2A-5B-30A-66A(0)	2	20	64QAM	50	0	100	0	19100	1100	5	10	2476	5	10	2575	30	10	9820	66	20	66886	20.27	18.31	20.50
	5	10	64QAM	25	25	50	0	20600	2600	5	10	2501	2	20	900	30	10	9820	66	20	66886	20.82	20.18	21.00
	30	10	QPSK	1	25	50	0	27710	9820	2	20	900	5	10	2476	5	10	2575	66	20	66886	21.72	20.68	22.00
	66	20	64QAM	1	0	100	0	132322	66786	2	20	900	5	10	2476	5	10	2575	66	20	66886	20.47	20.04	20.50

Table 126: Additional conducted power test results of DL CA (Second antenna, Left Head, Receiver on)

DL LTE CA Class	PCC								SCC1				SCC 2		SCC 3			SCC 4			Power			
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	Rel 8 LTE Tx Power (dBm)	DL LTE CA Tx Power (dBm)	Tune-up
CA_5B	5	10	16QAM	1	49	50	0	20450	2450	5	10	2549	/	/	/	/	/	/	/	/	/	19.87	19.64	20.00
CA_2A-2A	2	20	64QAM	1	0	100	0	19100	1100	2	20	700	/	/	/	/	/	/	/	/	/	16.75	16.24	17.00
CA_66A-66A	66	20	64QAM	1	0	100	0	132072	66536	66	20	67236	/	/	/	/	/	/	/	/	/	17.30	16.86	17.50
CA_2A-46A(0)	2	20	64QAM	1	0	100	0	19100	1100	46	20	50690	/	/	/	/	/	/	/	/	/	16.75	15.58	17.00
CA_46A-66A(0)	66	20	64QAM	1	0	100	0	132072	67036	46	20	50690	/	/	/	/	/	/	/	/	/	17.30	17.05	17.50
CA_2A-46C(0)	2	20	64QAM	1	0	100	0	19100	1100	46	20	50692	46	20	50890	/	/	/	/	/	/	16.75	16.11	17.00
CA_46C-66A(0)	66	20	64QAM	1	0	100	0	132072	67036	46	20	50692	46	20	50890	/	/	/	/	/	/	17.30	15.78	17.50
CA_2A-46D(0)	2	20	64QAM	1	0	100	0	19100	1100	46	20	50492	46	20	50690	46	20	50888	/	/	/	16.75	15.32	17.00
CA_46D-66A(0)	66	20	64QAM	1	0	100	0	132072	67036	46	20	50492	46	20	50690	46	20	50888	/	/	/	17.30	16.91	17.50
CA_5B-66A-66A(0)	5	10	16QAM	1	49	50	0	20450	2450	5	10	2549	66	20	66536	66	20	67236	/	/	/	19.87	19.14	20.00
CA_46E-66A(0)	66	20	64QAM	1	0	100	0	132072	67036	66	20	67236	5	10	2476	5	10	2575	/	/	/	17.30	16.88	17.50
CA_2A-29A-30A(0)	2	20	64QAM	1	0	100	0	19100	1100	29	10	9715	30	10	9820	/	/	/	/	/	/	16.75	14.70	17.00
CA_29A-30A-66A(0)	30	10	16QAM	1	25	50	0	27710	9820	2	20	900	29	10	9715	/	/	/	/	/	/	16.13	15.01	16.50
CA_29A-30A-66A(0)	30	10	16QAM	1	25	50	0	27710	9820	29	10	9715	66	20	66886	/	/	/	/	/	/	16.13	15.21	16.50
CA_2A-2A-5A-66A(0)	66	20	64QAM	1	0	100	0	132072	67036	29	10	9715	30	10	9820	/	/	/	/	/	/	17.30	15.28	17.50
CA_2A-2A-5A-66A-66A(0)	2	20	64QAM	1	0	100	0	19100	1100	2	20	700	5	10	2525	66	20	66536	66	20	67236	16.75	16.11	17.00
CA_2A-2A-5A-66A-66A(0)	5	10	16QAM	1	49	50	0	20450	2450	2	20	700	2	20	1100	66	20	66536	66	20	67236	19.87	19.07	20.00
CA_2A-2A-5A-66A-66A(0)	66	20	64QAM	1	0	100	0	132072	67036	66	20	67236	2	20	700	2	20	1100	5	10	2525	17.30	16.95	17.50
CA_2A-2A-5A-30A-66A(0)	2	20	64QAM	1	0	100	0	19100	1100	2	20	700	5	10	2525	30	10	9820	66	20	66886	16.75	14.76	17.00
CA_2A-2A-5A-30A-66A(0)	5	10	16QAM	1	49	50	0	20450	2450	2	20	700	2	20	1100	30	10	9820	66	20	66886	19.87	19.10	20.00
CA_2A-2A-5A-30A-66A(0)	30	10	16QAM	1	25	50	0	27710	9820	2	20	700	2	20	1100	5	10	2525	66	20	66886	16.13	14.95	16.50
CA_2A-2A-5A-30A-66A(0)	66	20	64QAM	1	0	100	0	132072	67036	2	20	700	2	20	1100	5	10	2525	30	10	9820	17.30	15.31	17.50
CA_2A-5A-30A-66A-66A(0)	2	20	64QAM	1	0	100	0	19100	1100	5	10	2525	30	10	9820	66	20	66536	66	20	67236	16.75	14.61	17.00
CA_2A-5A-30A-66A-66A(0)	5	10	16QAM	1	49	50	0	20450	2450	2	20	900	30	10	9820	66	20	66536	66	20	67236	19.87	19.03	20.00
CA_2A-5A-30A-66A-66A(0)	30	10	16QAM	1	25	50	0	27710	9820	2	20	900	5	10	2525	66	20	66536	66	20	67236	16.13	14.98	16.50
CA_2A-5A-30A-66A-66A(0)	66	20	64QAM	1	0	100	0	132072	67036	66	20	67236	2	20	900	5	10	2525	30	10	9820	17.30	15.41	17.50
CA_2A-5B-30A-66A(0)	2	20	64QAM	1	0	100	0	19100	1100	5	10	2476	5	10	2575	30	10	9820	66	20	66886	16.75	14.66	17.00
CA_2A-5B-30A-66A(0)	5	10	16QAM	1	49	50	0	20450	2450	5	10	2549	2	20	900	30	10	9820	66	20	66886	19.87	19.01	20.00
CA_2A-5B-30A-66A(0)	30	10	16QAM	1	25	50	0	27710	9820	2	20	900	5	10	2476	5	10	2575	66	20	66886	16.13	14.83	16.50
CA_2A-5B-30A-66A(0)	66	20	64QAM	1	0	100	0	132072	67036	2	20	900	5	10	2476	5	10	2575	66	20	66886	17.30	16.83	17.50

Table 127:Additional conducted power test results of DL CA(Second antenna, Right Head, Receiver on)

DL LTE CA Class	PCC									SCC1				SCC 2				SCC 3				SCC 4				Power		
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	Rel 8 LTE Tx Power (dBm)	DL LTE CA Tx Power (dBm)	Tune-up	
CA_5B	5	10	16QAM	1	0	50	0	20450	2450	5	10	2549	/	/	/	/	/	/	/	/	/	/	/	/	17.81	17.16	18.00	
CA_2A-2A	2	20	16QAM	1	0	100	0	18700	700	2	20	1100	/	/	/	/	/	/	/	/	/	/	/	/	17.26	16.71	17.50	
CA_66A-66A	66	20	64QAM	1	0	100	0	132072	66536	66	20	67236	/	/	/	/	/	/	/	/	/	/	/	/	17.30	16.86	17.50	
CA_2A-46A(0)	2	20	16QAM	1	0	100	0	18700	700	46	20	50690	/	/	/	/	/	/	/	/	/	/	/	/	17.26	16.08	17.50	
CA_46A-66A(0)	66	20	64QAM	1	0	100	0	132072	67036	46	20	50690	/	/	/	/	/	/	/	/	/	/	/	/	17.30	17.05	17.50	
CA_2A-46C(0)	2	20	16QAM	1	0	100	0	18700	700	46	20	50692	46	20	50890	/	/	/	/	/	/	/	/	/	17.26	16.70	17.50	
CA_46C-66A(0)	66	20	64QAM	1	0	100	0	132072	67036	46	20	50692	46	20	50890	/	/	/	/	/	/	/	/	/	17.30	15.78	17.50	
CA_2A-46D(0)	2	20	16QAM	1	0	100	0	18700	700	46	20	50492	46	20	50690	46	20	50888	/	/	/	/	/	/	17.26	15.75	17.50	
CA_46D-66A(0)	66	20	64QAM	1	0	100	0	132072	67036	46	20	50492	46	20	50690	46	20	50888	/	/	/	/	/	/	17.30	16.91	17.50	
CA_5B-66A-66A(0)	5	10	16QAM	1	0	50	0	20450	2450	5	10	2549	66	20	66536	66	20	67236	/	/	/	/	/	/	17.81	17.19	18.00	
	66	20	64QAM	1	0	100	0	132072	67036	66	20	67236	5	10	2476	5	10	2575	/	/	/	/	/	/	17.30	16.88	17.50	
CA_46E-66A(0)	66	20	64QAM	1	0	100	0	132072	67036	46	20	50490	46	20	50688	46	20	50889	46	20	51090	17.30	15.56	17.50				
CA_2A-29A-30A(0)	2	20	16QAM	1	0	100	0	18700	700	29	10	9715	30	10	9820	/	/	/	/	/	/	/	/	/	17.26	15.24	17.50	
	30	10	16QAM	1	25	50	0	27710	9820	2	20	900	29	10	9715	/	/	/	/	/	/	/	/	/	18.67	17.37	19.00	
CA_29A-30A-66A(0)	30	10	16QAM	1	25	50	0	27710	9820	29	10	9715	66	20	66886	/	/	/	/	/	/	/	/	/	18.67	17.63	19.00	
	66	20	64QAM	1	0	100	0	132072	67036	29	10	9715	30	10	9820	/	/	/	/	/	/	/	/	/	17.30	15.28	17.50	
CA_2A-2A-5A-66A-66A(0)	2	20	16QAM	1	0	100	0	18700	700	2	20	1100	5	10	2525	66	20	66536	66	20	67236	17.26	16.68	17.50				
	5	10	16QAM	1	0	50	0	20450	2450	2	20	700	2	20	1100	66	20	66536	66	20	67236	17.81	17.15	18.00				
	66	20	64QAM	1	0	100	0	132072	67036	66	20	67236	2	20	700	2	20	1100	5	10	2525	17.30	16.95	17.50				
	2	20	16QAM	1	0	100	0	18700	700	2	20	1100	5	10	2525	30	10	9820	66	20	66886	17.26	15.21	17.50				
CA_2A-2A-5A-30A-66A(0)	5	10	16QAM	1	0	50	0	20450	2450	2	20	700	2	20	1100	30	10	9820	66	20	66886	17.81	17.12	18.00				
	30	10	16QAM	1	25	50	0	27710	9820	2	20	700	2	20	1100	5	10	2525	66	20	66886	18.67	17.77	19.00				
	66	20	64QAM	1	0	100	0	132072	67036	2	20	700	2	20	1100	5	10	2525	30	10	9820	17.30	15.31	17.50				
	2	20	16QAM	1	0	100	0	18700	700	5	10	2525	30	10	9820	66	20	66536	66	20	67236	17.26	15.23	17.50				
CA_2A-5A-30A-66A-66A(0)	5	10	16QAM	1	0	50	0	20450	2450	2	20	900	30	10	9820	66	20	66536	66	20	67236	17.81	17.11	18.00				
	30	10	16QAM	1	25	50	0	27710	9820	2	20	900	5	10	2525	66	20	66536	66	20	67236	18.67	17.63	19.00				
	66	20	64QAM	1	0	100	0	132072	67036	66	20	67236	2	20	900	5	10	2525	30	10	9820	17.30	15.41	17.50				
	2	20	16QAM	1	0	100	0	18700	700	5	10	2476	5	10	2575	30	10	9820	66	20	66886	17.26	15.25	17.50				
CA_2A-5B-30A-66A(0)	5	10	16QAM	1	0	50	0	20450	2450	5	10	2549	2	20	900	30	10	9820	66	20	66886	17.81	17.14	18.00				
	30	10	16QAM	1	25	50	0	27710	9820	2	20	900	5	10	2476	5	10	2575	66	20	66886	18.67	17.45	19.00				
	66	20	64QAM	1	0	100	0	132072	67036	2	20	900	5	10	2476	5	10	2575	66	20	66886	17.30	16.83	17.50				

DL LTE CA Class	PCC									SCC1				SCC 2			SCC 3			SCC 4			Power		
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	Rel 8 LTE Tx Power (dBm)	DL CA Tx Power (dBm)	Tune-up	
CA_5B	5	10	64QAM	25	13	50	0	20525	2525	5	10	2549	/	/	/	/	/	/	/	/	/	16.78	16.25	17.00	
CA_2A-2A	2	20	16QAM	50	0	100	0	18700	700	2	20	1100	/	/	/	/	/	/	/	/	/	13.67	13.17	14.00	
CA_66A-66A	66	20	64QAM	1	50	100	0	132072	66536	66	20	67236	/	/	/	/	/	/	/	/	/	14.18	13.84	14.50	
CA_2A-46A(0)	2	20	16QAM	50	0	100	0	18700	700	46	20	50690	/	/	/	/	/	/	/	/	/	13.67	12.46	14.00	
CA_46A-66A(0)	66	20	64QAM	1	50	100	0	132072	67036	46	20	50690	/	/	/	/	/	/	/	/	/	14.18	13.78	14.50	
CA_2A-46C(0)	2	20	16QAM	50	0	100	0	18700	700	46	20	50692	46	20	50890	/	/	/	/	/	/	13.67	13.15	14.00	
CA_46C-66A(0)	66	20	64QAM	1	50	100	0	132072	67036	46	20	50692	46	20	50890	/	/	/	/	/	/	14.18	12.58	14.50	
CA_2A-46D(0)	2	20	16QAM	50	0	100	0	18700	700	46	20	50492	46	20	50690	46	20	50888	/	/	/	13.67	12.18	14.00	
CA_46D-66A(0)	66	20	64QAM	1	50	100	0	132072	67036	46	20	50492	46	20	50690	46	20	50888	/	/	/	14.18	12.59	14.50	
CA_5B-66A-66A(0)	5	10	64QAM	25	13	50	0	20525	2525	5	10	2549	66	20	66536	66	20	67236	/	/	/	16.78	16.30	17.00	
	66	20	64QAM	1	50	100	0	132072	67036	66	20	67236	5	10	2476	5	10	2575	/	/	/	14.18	13.52	14.50	
CA_46E-66A(0)	66	20	64QAM	1	50	100	0	132072	67036	46	20	50490	46	20	50688	46	20	50889	46	20	51090	14.18	12.54	14.50	
CA_2A-29A-30A(0)	2	20	16QAM	50	0	100	0	18700	700	29	10	9715	30	10	9820	/	/	/	/	/	/	13.67	12.01	14.00	
	30	10	16QAM	1	25	50	0	27710	9820	2	20	900	29	10	9715	/	/	/	/	/	/	13.21	11.75	13.50	
CA_29A-30A-66A(0)	30	10	16QAM	1	25	50	0	27710	9820	29	10	9715	66	20	66886	/	/	/	/	/	/	13.21	12.08	13.50	
	66	20	64QAM	1	50	100	0	132072	67036	29	10	9715	30	10	2355	/	/	/	/	/	/	14.18	12.28	14.50	
CA_2A-2A-5A-66A-66A(0)	2	20	16QAM	50	0	100	0	18700	700	2	20	1100	5	10	2525	66	20	66536	66	20	67236	13.67	13.18	14.00	
	5	10	64QAM	25	13	50	0	20525	2525	2	20	700	2	20	1100	66	20	66536	66	20	67236	16.78	16.45	17.00	
	66	20	64QAM	1	50	100	0	132072	67036	66	20	67236	2	20	700	2	20	1100	5	10	2525	14.18	13.86	14.50	
CA_2A-2A-5A-30A-66A(0)	2	20	16QAM	50	0	100	0	18700	700	2	20	1100	5	10	2525	30	10	9820	66	20	66886	13.67	11.69	14.00	
	5	10	64QAM	25	13	50	0	20525	2525	2	20	700	2	20	1100	30	10	9820	66	20	66886	16.78	16.24	17.00	
	30	10	16QAM	1	25	50	0	27710	9820	2	20	700	2	20	1100	5	10	2525	66	20	66886	13.21	11.82	13.50	
	66	20	64QAM	1	50	100	0	132072	67036	2	20	700	2	20	1100	5	10	2525	30	10	9820	14.18	12.27	14.50	
CA_2A-5A-30A-66A-66A(0)	2	20	16QAM	50	0	100	0	18700	700	5	10	2525	30	10	9820	66	20	66536	66	20	67236	13.67	11.70	14.00	
	5	10	64QAM	25	13	50	0	20525	2525	2	20	900	30	10	9820	66	20	66536	66	20	67236	16.78	16.30	17.00	
	30	10	16QAM	1	25	50	0	27710	9820	2	20	900	5	10	2525	66	20	66536	66	20	67236	13.21	12.11	13.50	
	66	20	64QAM	1	50	100	0	132072	67036	66	20	67236	2	20	900	5	10	2525	30	10	9820	14.18	12.22	14.50	
CA_2A-5B-30A-66A(0)	2	20	16QAM	50	0	100	0	18700	700	5	10	2476	5	10	2575	30	10	9820	66	20	66886	13.67	11.77	14.00	
	5	10	64QAM	25	13	50	0	20525	2525	5	10	2549	2	20	900	30	10	9820	66	20	66886	16.78	16.25	17.00	
	30	10	16QAM	1	25	50	0	27710	9820	2	20	900	5	10	2476	5	10	2575	66	20	66886	13.21	12.00	13.50	
	66	20	64QAM	1	50	100	0	132072	67036	2	20	900	5	10	2476	5	10	2575	66	20	66886	14.18	13.80	14.50	

Table 129:Additional conducted power test results of DL CA(Second antenna, Right Head, Receiver on and Simultaneous Transmission with WiFi antenna)

DL LTE CA Class	PCC								SCC1			SCC 2			SCC 3			SCC 4			Power			
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	Rel 8 LTE Tx Power (dBm)	DL CA Tx Power (dBm)	Tune-up
CA_5B	5	10	QPSK	1	49	50	0	20450	2450	5	10	2549	/	/	/	/	/	/	/	/	/	24.11	24.00	24.50
CA_2A-2A	2	20	16QAM	1	99	100	0	19100	1100	2	20	700	/	/	/	/	/	/	/	/	/	21.17	21.02	21.50
CA_66A-66A	66	20	16QAM	1	99	100	0	132322	66786	66	20	67236	/	/	/	/	/	/	/	/	/	22.24	22.44	22.50
CA_2A-46A(0)	2	20	16QAM	1	99	100	0	19100	1100	46	20	50690	/	/	/	/	/	/	/	/	/	21.17	20.70	21.50
CA_46A-66A(0)	66	20	16QAM	1	99	100	0	132322	66786	46	20	50690	/	/	/	/	/	/	/	/	/	22.24	22.61	22.50
CA_2A-46C(0)	2	20	16QAM	1	99	100	0	19100	1100	46	20	50692	46	20	50890	/	/	/	/	/	/	21.17	20.24	21.50
CA_46C-66A(0)	66	20	16QAM	1	99	100	0	132322	66786	46	20	50692	46	20	50890	/	/	/	/	/	/	22.24	22.66	22.50
CA_2A-46D(0)	2	20	16QAM	1	99	100	0	19100	1100	46	20	50492	46	20	50690	46	20	50888	/	/	/	21.17	20.11	21.50
CA_46D-66A(0)	66	20	16QAM	1	99	100	0	132322	66786	46	20	50492	46	20	50690	46	20	50888	/	/	/	22.24	22.10	22.50
CA_5B-66A-66A(0)	5	10	QPSK	1	49	50	0	20450	2450	5	10	2549	66	20	66536	66	20	67236	/	/	/	24.11	24.07	24.50
	66	20	16QAM	1	99	100	0	132322	66786	66	20	67236	5	10	2476	5	10	2575	/	/	/	22.24	22.51	22.50
CA_46E-66A(0)	66	20	16QAM	1	99	100	0	132322	66786	46	20	50490	46	20	50688	46	20	50889	46	20	51090	22.24	22.45	22.50
CA_2A-29A-30A(0)	2	20	16QAM	1	99	100	0	19100	1100	29	10	9715	30	10	9820	/	/	/	/	/	/	21.17	19.85	21.50
	30	10	QPSK	1	25	50	0	27710	9820	2	20	900	29	10	9715	/	/	/	/	/	/	21.33	21.16	21.50
CA_29A-30A-66A(0)	30	10	QPSK	1	25	50	0	27710	9820	29	10	9715	66	20	66886	/	/	/	/	/	/	21.33	21.08	21.50
	66	20	16QAM	1	99	100	0	132322	66786	29	10	9715	30	10	9820	/	/	/	/	/	/	22.24	22.11	22.50
CA_2A-2A-5A-66A-66A(0)	2	20	16QAM	1	99	100	0	19100	1100	2	20	700	5	10	2525	66	20	66536	66	20	67236	21.17	20.87	21.50
	5	10	QPSK	1	49	50	0	20450	2450	2	20	700	2	20	1100	66	20	66536	66	20	67236	24.11	23.60	24.50
	66	20	16QAM	1	99	100	0	132322	66786	66	20	67236	2	20	700	2	20	1100	5	10	2525	22.24	22.11	22.50
CA_2A-2A-5A-30A-66A(0)	2	20	16QAM	1	99	100	0	19100	1100	2	20	700	5	10	2525	30	10	9820	66	20	66886	21.17	19.87	21.50
	5	10	QPSK	1	49	50	0	20450	2450	2	20	700	2	20	1100	30	10	9820	66	20	66886	24.11	23.62	24.50
	30	10	QPSK	1	25	50	0	27710	9820	2	20	700	2	20	1100	5	10	2525	66	20	2155	21.33	21.17	21.50
	66	20	16QAM	1	99	100	0	132322	66786	2	20	700	2	20	1100	5	10	2525	30	10	9820	22.24	22.15	22.50
CA_2A-5A-30A-66A-66A(0)	2	20	16QAM	1	99	100	0	19100	1100	5	10	2525	30	10	9820	66	20	66536	66	20	67236	21.17	19.71	21.50
	5	10	QPSK	1	49	50	0	20450	2450	2	20	900	30	10	9820	66	20	66536	66	20	67236	24.11	23.78	24.50
	30	10	QPSK	1	25	50	0	27710	9820	2	20	900	5	10	2525	66	20	66536	66	20	67236	21.33	21.12	21.50
	66	20	16QAM	1	99	100	0	132322	66786	66	20	67236	2	20	900	5	10	2525	30	10	9820	22.24	22.09	22.50
CA_2A-5B-30A-66A(0)	2	20	16QAM	1	99	100	0	19100	1100	5	10	2476	5	10	2575	30	10	9820	66	20	66886	21.17	19.73	21.50
	5	10	QPSK	1	49	50	0	20450	2450	5	10	2549	2	20	900	30	10	9820	66	20	66886	24.11	23.63	24.50
	30	10	QPSK	1	25	50	0	27710	9820	2	20	900	5	10	2476	5	10	2575	66	20	66886	21.33	21.03	21.50
	66	20	16QAM	1	99	100	0	132322	66786	2	20	900	5	10	2476	5	10	2575	66	20	66886	22.24	22.42	22.50

DL LTE CA Class	PCC								SCC1				SCC 2				SCC 3				SCC 4			Power	
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	Rel 8 LTE Tx Power (dBm)	DL LTE CA Tx Power (dBm)	Tune-up	
CA_5B	5	10	QPSK	1	0	50	0	20525	2525	5	10	2549	/	/	/	/	/	/	/	/	/	21.31	20.67	21.50	
CA_2A-2A	2	20	64QAM	1	0	100	0	19100	1100	2	20	700	/	/	/	/	/	/	/	/	/	18.35	17.68	18.50	
CA_66A-66A	66	20	16QAM	1	50	100	0	132072	66536	66	20	67236	/	/	/	/	/	/	/	/	/	19.32	18.97	19.50	
CA_2A-46A(0)	2	20	64QAM	1	0	100	0	19100	1100	46	20	50690	/	/	/	/	/	/	/	/	/	18.35	17.04	18.50	
CA_46A-66A(0)	66	20	16QAM	1	50	100	0	132072	66536	46	20	50690	/	/	/	/	/	/	/	/	/	19.32	17.82	19.50	
CA_2A-46C(0)	2	20	64QAM	1	0	100	0	19100	1100	46	20	50692	46	20	50890	/	/	/	/	/	/	18.35	16.72	18.50	
CA_46C-66A(0)	66	20	16QAM	1	50	100	0	132072	66536	46	20	50692	46	20	50890	/	/	/	/	/	/	19.32	17.81	19.50	
CA_2A-46D(0)	2	20	64QAM	1	0	100	0	19100	1100	46	20	50492	46	20	50690	46	20	50888	/	/	/	18.35	16.69	18.50	
CA_46D-66A(0)	66	20	16QAM	1	50	100	0	132072	66536	46	20	50492	46	20	50690	46	20	50888	/	/	/	19.32	17.85	19.50	
CA_5B-66A-66A(0)	5	10	QPSK	1	0	50	0	20525	2525	5	10	2549	66	20	66536	66	20	67236	/	/	/	21.31	20.66	21.50	
	66	20	16QAM	1	50	100	0	132072	66536	66	20	67236	5	10	2476	5	10	2575	/	/	/	19.32	18.95	19.50	
CA_46E-66A(0)	66	20	16QAM	1	50	100	0	132072	66536	46	20	50490	46	20	50688	46	20	50889	46	20	51090	19.32	19.01	19.50	
CA_2A-29A-30A(0)	2	20	64QAM	1	0	100	0	19100	1100	29	10	9715	30	10	9820	/	/	/	/	/	/	18.35	16.16	18.50	
	30	10	QPSK	1	49	50	0	27710	9820	2	20	900	29	10	9715	/	/	/	/	/	/	18.24	17.06	18.50	
CA_29A-30A-66A(0)	30	10	QPSK	1	49	50	0	27710	9820	29	10	9715	66	20	66886	/	/	/	/	/	/	18.24	17.04	18.50	
	66	20	16QAM	1	50	100	0	132072	66536	29	10	9715	30	10	9820	/	/	/	/	/	/	19.32	17.29	19.50	
CA_2A-2A-5A-66A-66A(0)	2	20	64QAM	1	0	100	0	19100	1100	2	20	700	5	10	2525	66	20	66536	66	20	67236	18.35	17.58	18.50	
	5	10	QPSK	1	0	50	0	20525	2525	2	20	700	2	20	1100	66	20	66536	66	20	67236	21.31	20.70	21.50	
	66	20	16QAM	1	50	100	0	132072	66536	66	20	67236	2	20	700	2	20	1100	5	10	2525	19.32	18.94	19.50	
CA_2A-2A-5A-30A-66A(0)	2	20	64QAM	1	0	100	0	19100	1100	2	20	700	5	10	2525	30	10	9820	66	20	66886	18.35	16.07	18.50	
	5	10	QPSK	1	0	50	0	20525	2525	2	20	700	2	20	1100	30	10	9820	66	20	66886	21.31	20.64	21.50	
	30	10	QPSK	1	49	50	0	27710	9820	2	20	700	2	20	1100	5	10	2525	66	20	66886	18.24	17.07	18.50	
	66	20	16QAM	1	50	100	0	132072	66536	2	20	700	2	20	1100	5	10	2525	30	10	9820	19.32	17.34	19.50	
CA_2A-5A-30A-66A-66A(0)	2	20	64QAM	1	0	100	0	19100	1100	5	10	2525	30	10	9820	66	20	66536	66	20	67236	18.35	16.18	18.50	
	5	10	QPSK	1	0	50	0	20525	2525	2	20	900	30	10	9820	66	20	66536	66	20	67236	21.31	20.68	21.50	
	30	10	QPSK	1	49	50	0	27710	9820	2	20	900	5	10	2525	66	20	66536	66	20	67236	18.24	17.02	18.50	
	66	20	16QAM	1	50	100	0	132072	66536	66	20	67236	2	20	900	5	10	2525	30	10	9820	19.32	17.31	19.50	
CA_2A-5B-30A-66A(0)	2	20	64QAM	1	0	100	0	19100	1100	5	10	2476	5	10	2575	30	10	9820	66	20	66886	18.35	16.10	18.50	
	5	10	QPSK	1	0	50	0	20525	2525	5	10	2549	2	20	900	30	10	9820	66	20	66886	21.31	20.71	21.50	
	30	10	QPSK	1	49	50	0	27710	9820	2	20	900	5	10	2476	5	10	2575	66	20	66886	18.24	17.05	18.50	
	66	20	16QAM	1	50	100	0	132072	66536	2	20	900	5	10	2476	5	10	2575	66	20	66886	19.32	18.98	19.50	

Table 131:Additional conducted power test results of DL CA(Second antenna, Receiver off and Simultaneous Transmission with WiFi antenna)

DL LTE CA Class	PCC								SCC1				SCC 2				SCC 3				SCC 4				Power		
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	Rel 8 LTE Tx Power (dBm)	DL LTE CA Tx Power (dBm)	Tune-up			
CA_5B	5	10	QPSK	1	0	50	0	20450	2450	5	10	2549	/	/	/	/	/	/	/	/	/	24.50	24.42	25.00			
CA_2A-2A	2	20	QPSK	1	99	100	0	19100	1100	2	20	700	/	/	/	/	/	/	/	/	/	24.94	24.76	25.00			
CA_66A-66A	66	20	QPSK	1	99	100	0	132572	67036	66	20	66536	/	/	/	/	/	/	/	/	/	23.91	23.06	25.00			
CA_2A-46A(0)	2	20	QPSK	1	99	100	0	19100	1100	46	20	50690	/	/	/	/	/	/	/	/	/	24.94	23.63	25.00			
CA_46A-66A(0)	66	20	QPSK	1	99	100	0	132572	67036	46	20	50690	/	/	/	/	/	/	/	/	/	23.91	22.97	25.00			
CA_2A-46C(0)	2	20	QPSK	1	99	100	0	19100	1100	46	20	50692	46	20	50890	/	/	/	/	/	/	24.94	23.61	25.00			
CA_46C-66A(0)	66	20	QPSK	1	99	100	0	132572	67036	46	20	50692	46	20	50890	/	/	/	/	/	/	23.91	22.87	25.00			
CA_2A-46D(0)	2	20	QPSK	1	99	100	0	19100	1100	46	20	50492	46	20	50690	46	20	50888	/	/	/	24.94	23.65	25.00			
CA_46D-66A(0)	66	20	QPSK	1	99	100	0	132572	67036	46	20	50492	46	20	50690	46	20	50888	/	/	/	23.91	22.96	25.00			
CA_5B-66A-66A(0)	5	10	QPSK	1	0	50	0	20450	2450	5	10	2549	66	20	66536	66	20	67236	/	/	/	24.50	24.62	25.00			
	66	20	QPSK	1	99	100	0	132572	67036	66	20	66536	5	10	2476	5	10	2575	/	/	/	23.91	23.32	25.00			
CA_46E-66A(0)	66	20	QPSK	1	99	100	0	132572	67036	46	20	50490	46	20	50688	46	20	50889	46	20	51090	23.91	23.37	25.00			
CA_2A-29A-30A(0)	2	20	QPSK	1	99	100	0	19100	1100	29	10	9715	30	10	9820	/	/	/	/	/	/	24.94	23.23	25.00			
	30	10	QPSK	1	25	50	0	27710	9820	2	20	900	29	10	9715	/	/	/	/	/	/	24.05	23.72	25.00			
CA_29A-30A-66A(0)	30	10	QPSK	1	25	50	0	27710	9820	29	10	9715	66	20	66886	/	/	/	/	/	/	24.05	23.98	25.00			
	66	20	QPSK	1	99	100	0	132572	67036	29	10	9715	30	10	9820	/	/	/	/	/	/	23.91	22.71	25.00			
CA_2A-2A-5A-66A-66A(0)	2	20	QPSK	1	99	100	0	19100	1100	2	20	700	5	10	2525	66	20	66536	66	20	67236	24.94	24.68	25.00			
	5	10	QPSK	1	0	50	0	20450	2450	2	20	700	2	20	1100	66	20	66536	66	20	67236	24.50	24.60	25.00			
	66	20	QPSK	1	99	100	0	132572	67036	66	20	66536	2	20	700	2	20	1100	5	10	2525	23.91	23.39	25.00			
CA_2A-2A-5A-30A-66A(0)	2	20	QPSK	1	99	100	0	19100	1100	2	20	700	5	10	2525	30	10	9820	66	20	66886	24.94	23.19	25.00			
	5	10	QPSK	1	0	50	0	20450	2450	2	20	700	2	20	1100	30	10	9820	66	20	66886	24.50	24.52	25.00			
	30	10	QPSK	1	25	50	0	27710	9820	2	20	700	2	20	1100	5	10	2525	66	20	66886	24.05	23.68	25.00			
CA_2A-2A-5A-30A-66A(0)	66	20	QPSK	1	99	100	0	132572	67036	2	20	700	2	20	1100	5	10	2525	30	10	9820	23.91	22.67	25.00			
	2	20	QPSK	1	99	100	0	19100	1100	5	10	2525	30	10	9820	66	20	66536	66	20	67236	24.94	23.14	25.00			
	5	10	QPSK	1	0	50	0	20450	2450	2	20	900	30	10	9820	66	20	66536	66	20	67236	24.50	24.64	25.00			
CA_2A-5A-30A-66A-66A(0)	30	10	QPSK	1	25	50	0	27710	9820	2	20	900	5	10	2525	66	20	66536	66	20	67236	24.05	23.70	25.00			
	66	20	QPSK	1	99	100	0	132572	67036	66	20	66536	2	20	900	5	10	2525	30	10	9820	23.91	22.69	25.00			
	2	20	QPSK	1	99	100	0	19100	1100	5	10	2476	5	10	2575	30	10	9820	66	20	66886	24.94	23.13	25.00			
CA_2A-5B-30A-66A(0)	5	10	QPSK	1	0	50	0	20450	2450	5	10	2549	2	20	900	30	10	9820	66	20	66886	24.50	24.60	25.00			
	30	10	QPSK	1	25	50	0	27710	9820	2	20	900	5	10	2476	5	10	2575	66	20	66886	24.05	23.67	25.00			
	66	20	QPSK	1	99	100	0	132572	67036	2	20	900	5	10	2476	5	10	2575	66	20	66886	23.91	23.14	25.00			

DL LTE CA Class	PCC								SCC1			SCC 2			SCC 3			SCC 4			Power			
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	Rel 8 LTE Tx Power (dBm)	DL LTE CA Tx Power (dBm)	Tune-up
CA_5B	5	10	QPSK	1	0	50	0	20450	2450	5	10	2549	/	/	/	/	/	/	/	/	/	24.50	24.42	25.00
CA_2A-2A	2	20	QPSK	1	99	100	0	19100	1100	2	20	700	/	/	/	/	/	/	/	/	/	19.39	18.92	19.50
CA_66A-66A	66	20	16QAM	1	0	100	0	132572	67036	66	20	66536	/	/	/	/	/	/	/	/	/	19.42	18.80	19.50
CA_2A-46A(0)	2	20	QPSK	1	99	100	0	19100	1100	46	20	50690	/	/	/	/	/	/	/	/	/	19.39	17.85	19.50
CA_46A-66A(0)	66	20	16QAM	1	0	100	0	132572	67036	46	20	50690	/	/	/	/	/	/	/	/	/	19.42	18.50	19.50
CA_2A-46C(0)	2	20	QPSK	1	99	100	0	19100	1100	46	20	50692	46	20	50890	/	/	/	/	/	/	19.39	17.86	19.50
CA_46C-66A(0)	66	20	16QAM	1	0	100	0	132572	67036	46	20	50692	46	20	50890	/	/	/	/	/	/	19.42	18.91	19.50
CA_2A-46D(0)	2	20	QPSK	1	99	100	0	19100	1100	46	20	50492	46	20	50690	46	20	50888	/	/	/	19.39	17.86	19.50
CA_46D-66A(0)	66	20	16QAM	1	0	100	0	132572	67036	46	20	50492	46	20	50690	46	20	50888	/	/	/	19.42	19.21	19.50
CA_5B-66A-66A(0)	5	10	QPSK	1	0	50	0	20450	2450	5	10	2549	66	20	66536	66	20	67236	/	/	/	24.50	24.62	25.00
	66	20	16QAM	1	0	100	0	132572	67036	66	20	66536	5	10	2476	5	10	2575	/	/	/	19.42	18.75	19.50
CA_46E-66A(0)	66	20	16QAM	1	0	100	0	132572	67036	46	20	50490	46	20	50688	46	20	50889	46	20	51090	19.42	19.35	19.50
CA_2A-29A-30A(0)	2	20	QPSK	1	99	100	0	19100	1100	29	10	9715	30	10	9820	/	/	/	/	/	/	19.39	17.50	19.50
	30	10	16QAM	1	25	50	0	27710	9820	2	20	900	29	10	9715	/	/	/	/	/	/	22.00	20.92	22.00
CA_29A-30A-66A(0)	30	10	16QAM	1	25	50	0	27710	9820	29	10	9715	66	20	66886	/	/	/	/	/	/	22.00	21.00	22.00
	66	20	16QAM	1	0	100	0	132572	67036	29	10	9715	30	10	9820	/	/	/	/	/	/	19.42	17.52	19.50
CA_2A-2A-5A-66A-66A(0)	2	20	QPSK	1	99	100	0	19100	1100	2	20	700	5	10	2525	66	20	66536	66	20	67236	19.39	18.95	19.50
	5	10	QPSK	1	0	50	0	20450	2450	2	20	700	2	20	1100	66	20	66536	66	20	67236	24.50	24.60	25.00
	66	20	16QAM	1	0	100	0	132572	67036	66	20	66536	5	10	2525	2	20	700	2	20	1100	19.42	19.10	19.50
CA_2A-2A-5A-30A-66A(0)	2	20	QPSK	1	99	100	0	19100	1100	2	20	700	5	10	2525	30	10	9820	66	20	66886	19.39	17.52	19.50
	5	10	QPSK	1	0	50	0	20450	2450	2	20	700	2	20	1100	30	10	9820	66	20	66886	24.50	24.52	25.00
	30	10	16QAM	1	25	50	0	27710	9820	2	20	700	2	20	1100	5	10	2525	66	20	66886	22.00	20.82	22.00
	66	20	16QAM	1	0	100	0	132572	67036	2	20	700	5	10	2525	30	10	9820	2	20	1100	19.42	17.52	19.50
CA_2A-5A-30A-66A-66A(0)	2	20	QPSK	1	99	100	0	19100	1100	5	10	2525	30	10	9820	66	20	66536	66	20	67236	19.39	17.52	19.50
	5	10	QPSK	1	0	50	0	20450	2450	2	20	900	30	10	9820	66	20	66536	66	20	67236	24.50	24.64	25.00
	30	10	16QAM	1	25	50	0	27710	9820	2	20	900	5	10	2525	66	20	66536	66	20	67236	22.00	20.83	22.00
	66	20	16QAM	1	0	100	0	132572	67036	66	20	66536	5	10	2525	30	10	9820	2	20	900	19.42	17.52	19.50
CA_2A-5B-30A-66A(0)	2	20	QPSK	1	99	100	0	19100	1100	5	10	2476	5	10	2575	30	10	9820	66	20	66886	19.39	17.40	19.50
	5	10	QPSK	1	0	50	0	20450	2450	5	10	2549	2	20	900	30	10	9820	66	20	66886	24.50	24.60	25.00
	30	10	16QAM	1	25	50	0	27710	9820	2	20	900	5	10	2476	5	10	2575	66	20	66886	22.00	20.84	22.00
	66	20	16QAM	1	0	100	0	132572	67036	2	20	900	5	10	2476	5	10	2575	66	20	66886	19.42	19.20	19.50

Table 133: Additional conducted power test results of DL CA(Main antenna, Hotspot on +Sensor off)

DL LTE CA Class	PCC								SCC1				SCC 2			SCC 3			SCC 4			Power		
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	Rel 8 LTE Tx Power (dBm)	DL LTE CA Tx Power (dBm)	Tune-up
CA_5B	5	10	QPSK	1	0	50	0	20450	2450	5	10	2549	/	/	/	/	/	/	/	/	/	24.50	24.42	25.00
CA_2A-2A	2	20	64QAM	1	99	100	0	18700	700	2	20	1100	/	/	/	/	/	/	/	/	/	22.91	22.80	23.00
CA_66A-66A	66	20	16QAM	1	99	100	0	132572	67036	66	20	66536	/	/	/	/	/	/	/	/	/	22.00	21.15	22.50
CA_2A-46A(0)	2	20	64QAM	1	99	100	0	18700	700	46	20	50690	/	/	/	/	/	/	/	/	/	22.91	22.00	23.00
CA_46A-66A(0)	66	20	16QAM	1	99	100	0	132572	67036	46	20	50690	/	/	/	/	/	/	/	/	/	22.00	21.26	22.50
CA_2A-46C(0)	2	20	64QAM	1	99	100	0	18700	700	46	20	50692	46	20	50890	/	/	/	/	/	/	22.91	22.50	23.00
CA_46C-66A(0)	66	20	16QAM	1	99	100	0	132572	67036	46	20	50692	46	20	50890	/	/	/	/	/	/	22.00	21.02	22.50
CA_2A-46D(0)	2	20	64QAM	1	99	100	0	18700	700	46	20	50492	46	20	50690	46	20	50888	/	/	/	22.91	21.60	23.00
CA_46D-66A(0)	66	20	16QAM	1	99	100	0	132572	67036	46	20	50492	46	20	50690	46	20	50888	/	/	/	22.00	21.06	22.50
CA_5B-66A-66A(0)	5	10	QPSK	1	0	50	0	20450	2450	5	10	2549	66	20	66536	66	20	67236	/	/	/	24.50	24.62	25.00
	66	20	16QAM	1	99	100	0	132572	67036	66	20	66536	5	10	2476	5	10	2575	/	/	/	22.00	20.70	22.50
CA_46E-66A(0)	66	20	16QAM	1	99	100	0	132572	67036	46	20	50490	46	20	50688	46	20	50889	46	20	51090	22.00	20.71	22.50
CA_2A-29A-30A(0)	2	20	64QAM	1	99	100	0	18700	700	29	10	9715	30	10	9820	/	/	/	/	/	/	22.91	22.62	23.00
	30	10	QPSK	1	25	50	0	27710	9820	2	20	900	29	10	9715	/	/	/	/	/	/	22.70	22.30	24.00
CA_29A-30A-66A(0)	30	10	QPSK	1	25	50	0	27710	9820	29	10	9715	66	20	66886	/	/	/	/	/	/	22.70	22.45	24.00
	66	20	16QAM	1	99	100	0	132572	67036	29	10	9715	30	10	9820	/	/	/	/	/	/	22.00	20.47	22.50
CA_2A-2A-5A-66A-66A(0)	2	20	64QAM	1	99	100	0	18700	700	2	20	1100	5	10	2525	66	20	66536	66	20	67236	22.91	22.60	23.00
	5	10	QPSK	1	0	50	0	20450	2450	2	20	700	2	20	1100	66	20	66536	66	20	67236	24.50	24.60	25.00
	66	20	16QAM	1	99	100	0	132572	67036	66	20	66536	2	20	700	2	20	1100	5	10	2525	22.00	20.60	22.50
	2	20	64QAM	1	99	100	0	18700	700	2	20	1100	5	10	2525	30	10	9820	66	20	66886	22.91	21.20	23.00
CA_2A-2A-5A-30A-66A(0)	5	10	QPSK	1	0	50	0	20450	2450	2	20	700	2	20	1100	30	10	9820	66	20	66886	24.50	24.52	25.00
	30	10	QPSK	1	25	50	0	27710	9820	2	20	700	2	20	1100	5	10	2525	66	20	66886	22.70	22.25	24.00
	66	20	16QAM	1	99	100	0	132572	67036	2	20	700	2	20	1100	5	10	2525	30	10	9820	22.00	20.66	22.50
	2	20	64QAM	1	99	100	0	18700	700	5	10	2525	30	10	9820	66	20	66536	66	20	67236	22.91	21.26	23.00
CA_2A-5A-30A-66A-66A(0)	5	10	QPSK	1	0	50	0	20450	2450	2	20	900	30	10	9820	66	20	66536	66	20	67236	24.50	24.64	25.00
	30	10	QPSK	1	25	50	0	27710	9820	2	20	900	5	10	2525	66	20	66536	66	20	67236	22.70	22.37	24.00
	66	20	16QAM	1	99	100	0	132572	67036	66	20	66536	2	20	900	5	10	2525	30	10	9820	22.00	20.65	22.50
	2	20	64QAM	1	99	100	0	18700	700	5	10	2476	5	10	900	30	10	9820	66	20	66886	22.91	21.25	23.00
CA_2A-5B-30A-66A(0)	5	10	QPSK	1	0	50	0	20450	2450	5	10	2549	2	20	900	30	10	9820	66	20	66886	24.50	24.60	25.00
	30	10	QPSK	1	25	50	0	27710	9820	2	20	900	5	10	2476	5	10	2575	66	20	66886	22.70	22.20	24.00
	66	20	16QAM	1	99	100	0	132572	67036	2	20	900	5	10	2476	5	10	2575	66	20	66886	22.00	20.91	22.50

DL LTE CA Class	PCC								SCC1			SCC 2			SCC 3			SCC 4			Power			
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	Rel 8 LTE Tx Power (dBm)	DL LTE CA Tx Power (dBm)	Tune-up
CA_5B	5	10	QPSK	1	0	50	0	20450	2450	5	10	2549	/	/	/	/	/	/	/	/	/	24.50	24.42	25.00
CA_2A-2A	2	20	16QAM	1	99	100	0	18900	900	2	20	1100	/	/	/	/	/	/	/	/	/	17.38	17.14	17.50
CA_66A-66A	66	20	64QAM	1	99	100	0	132572	67036	66	20	66536	/	/	/	/	/	/	/	/	/	17.00	16.34	17.00
CA_2A-46A(0)	2	20	16QAM	1	99	100	0	18900	900	46	20	50690	/	/	/	/	/	/	/	/	/	17.38	16.30	17.50
CA_46A-66A(0)	66	20	64QAM	1	99	100	0	132572	67036	46	20	50690	/	/	/	/	/	/	/	/	/	17.00	15.12	17.00
CA_2A-46C(0)	2	20	16QAM	1	99	100	0	18900	900	46	20	50692	46	20	50890	/	/	/	/	/	/	17.38	16.00	17.50
CA_46C-66A(0)	66	20	64QAM	1	99	100	0	132572	67036	46	20	50692	46	20	50890	/	/	/	/	/	/	17.00	15.17	17.00
CA_2A-46D(0)	2	20	16QAM	1	99	100	0	18900	900	46	20	50492	46	20	50690	46	20	50888	/	/	/	17.38	15.63	17.50
CA_46D-66A(0)	66	20	64QAM	1	99	100	0	132572	67036	46	20	50492	46	20	50690	46	20	50888	/	/	/	17.00	15.10	17.00
CA_5B-66A-66A(0)	5	10	QPSK	1	0	50	0	20450	2450	5	10	2549	66	20	66536	66	20	67236	/	/	/	24.50	24.62	25.00
	66	20	64QAM	1	99	100	0	132572	67036	66	20	66536	5	10	2476	5	10	2575	/	/	/	17.00	16.28	17.00
CA_46E-66A(0)	66	20	64QAM	1	99	100	0	132572	67036	46	20	50490	46	20	50688	46	20	50889	46	20	51090	17.00	14.63	17.00
CA_2A-29A-30A(0)	2	20	16QAM	1	99	100	0	18900	900	29	10	9715	30	10	9820	/	/	/	/	/	/	17.38	15.31	17.50
	30	10	QPSK	1	25	50	0	27710	9820	2	20	900	29	10	9715	/	/	/	/	/	/	20.80	19.64	21.00
CA_29A-30A-66A(0)	30	10	QPSK	1	25	50	0	27710	9820	29	10	9715	66	20	66886	/	/	/	/	/	/	20.80	19.79	21.00
	66	20	64QAM	1	99	100	0	132572	67036	29	10	9715	30	10	9820	/	/	/	/	/	/	17.00	14.65	17.00
CA_2A-2A-5A-66A-66A(0)	2	20	16QAM	1	99	100	0	18900	900	2	20	1100	5	10	2525	66	20	66536	66	20	67236	17.38	16.84	17.50
	5	10	QPSK	1	0	50	0	20450	2450	2	20	700	2	20	1100	66	20	66536	66	20	67236	24.50	24.60	25.00
	66	20	64QAM	1	99	100	0	132572	67036	66	20	66536	2	20	700	2	20	1100	5	10	2525	17.00	16.30	17.00
CA_2A-2A-5A-30A-66A(0)	2	20	16QAM	1	99	100	0	18900	900	2	20	1100	5	10	2525	30	10	9820	66	20	66886	17.38	15.30	17.50
	5	10	QPSK	1	0	50	0	20450	2450	2	20	700	2	20	1100	30	10	9820	66	20	66886	24.50	24.52	25.00
	30	10	QPSK	1	25	50	0	27710	9820	2	20	700	2	20	1100	5	10	2525	66	20	66886	20.80	19.66	21.00
	66	20	64QAM	1	99	100	0	132572	67036	2	20	700	2	20	1100	5	10	2525	30	10	9820	17.00	14.72	17.00
CA_2A-5A-30A-66A-66A(0)	2	20	16QAM	1	99	100	0	18900	900	5	10	2525	30	10	9820	66	20	66536	66	20	67236	17.38	15.33	17.50
	5	10	QPSK	1	0	50	0	20450	2450	2	20	900	30	10	9820	66	20	66536	66	20	67236	24.50	24.64	25.00
	30	10	QPSK	1	25	50	0	27710	9820	2	20	900	5	10	2525	66	20	66536	66	20	67236	20.80	19.62	21.00
	66	20	64QAM	1	99	100	0	132572	67036	66	20	66536	2	20	900	5	10	2525	30	10	9820	17.00	14.61	17.00
CA_2A-5B-30A-66A(0)	2	20	16QAM	1	99	100	0	18900	900	5	10	2476	5	10	2575	30	10	9820	66	20	66886	17.38	15.31	17.50
	5	10	QPSK	1	0	50	0	20450	2450	5	10	2549	2	20	900	30	10	9820	66	20	66886	24.50	24.60	25.00
	30	10	QPSK	1	25	50	0	27710	9820	2	20	900	5	10	2476	5	10	2575	66	20	66886	20.80	19.74	21.00
	66	20	64QAM	1	99	100	0	132572	67036	2	20	900	5	10	2476	5	10	2575	66	20	66886	17.00	16.31	17.00

Table 135: Additional conducted power test results of DL CA(Main antenna, Sensor on + Hotspot on)

7.1.30 Conducted power measurements of uplink LTE CA

1) For Intra-band uplink LTE CA measurement (Uplink CA_5B), the following procedure according to 201711 FCC RF Exposure TCB workshop slides is applied:

Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05 (Rel. 8)

- UL PCC configuration is determined by the required test channel
- SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.

The MPR information for Intra-band uplink LTE CA is as below:

For intra-band contiguous carrier aggregation the allowed Maximum Power Reduction (MPR) for the maximum output power in Table 6.2.2A.0-2 due to higher order modulation and contiguously allocated transmissions (resource blocks) is specified in Table 6.2.3A.1.3-1. In case the modulation format is different on different component carriers then the MPR is determined by the rules applied to higher order of those modulations.

Table 6.2.3A.1.3-1: Maximum Power Reduction (MPR) for Power Class 3								
Modulation	CA bandwidth Class B and C							MPR (dB)
	25 RB + 50 RB	50 RB + 50 RB	25 RB + 100 RB	50 RB + 100 RB	75 RB + 75 RB	75 RB + 100 RB	100 RB + 100 RB	
QPSK	> 8 and ≤ 25	> 12 and ≤ 50	> 8 and ≤ 25	> 12 and ≤ 50	> 16 and ≤ 75	> 16 and ≤ 75	> 18 and ≤ 100	≤ 1
QPSK	> 25	> 50	> 25	> 50	> 75	> 75	> 100	≤ 2
16 QAM	≤ 8	≤ 12	≤ 8	≤ 12	≤ 16	≤ 16	≤ 18	≤ 1
16 QAM	> 8 and ≤ 25	> 12 and ≤ 50	> 8 and ≤ 25	> 12 and ≤ 50	> 16 and ≤ 75	> 16 and ≤ 75	> 18 and ≤ 100	≤ 2
16 QAM	> 25	> 50	> 25	> 50	> 75	> 75	> 100	≤ 3

Table 136: MPR information for Uplink intra-band contiguous CA(QPSK and 16QAM)

For intra-band contiguous carrier aggregation the allowed Maximum Power Reduction (MPR) for the maximum output power in Table 6.2.2A.0-2 due to higher order modulation and contiguously aggregated transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3A.1_1.3-1. In case the modulation format is different on different component carriers then the MPR is determined by the rules applied to higher order of those modulations.

Table 6.2.3A.1_1.3-1: Maximum Power Reduction (MPR) for Power Class 3								
Modulation	CA bandwidth Class B and C							MPR (dB)
	25 RB + 50 RB	50 RB + 50 RB	25 RB + 100 RB	50 RB + 100 RB	75 RB + 75 RB	75 RB + 100 RB	100 RB + 100 RB	
64 QAM	≤ 8 and allocation wholly contained within a single CC	≤ 12 and allocation wholly contained within a single CC	≤ 8 and allocation wholly contained within a single CC	≤ 12 and allocation wholly contained within a single CC	≤ 16 and allocation wholly contained within a single CC	≤ 16 and allocation wholly contained within a single CC	≤ 18 and allocation wholly contained within a single CC	≤ 2
64 QAM	> 8 or allocation extends across two CC's	> 12 or allocation extends across two CC's	> 8 or allocation extends across two CC's	> 12 or allocation extends across two CC's	> 16 or allocation extends across two CC's	> 16 or allocation extends across two CC's	> 18 or allocation extends across two CC's	≤ 3

Table 137: MPR information for Uplink intra-band contiguous CA(64QAM)

For Inter-band CA Conducted power measurement(Uplink CA_2A-12A): Measure the maximum output power for each inter-band UL CA-band pair per 3GPP TS 36.521-1. **As Inter-band CA operating bands (two bands) of this device do not support MPR, the maximum output power (including tune-up limit) for different RB allocations and modulation are the same.** So the conducted power test reduction of inter-band uplink LTE CA is applied and the additional output power with inter-band uplink CA active are required for the following configurations:

- a) Band 2 is used as PCC and Band 12 is used as SCC
- b) Band 12 is used as PCC and Band 2 is used as SCC

The PCC is configured to the configuration with the highest SAR of PCC band when carrier aggregation was not active.

The SCC is configured to the configuration with the highest SAR of SCC band when carrier aggregation was not active.

The UL CA conducted power measurement results are as below:

Antenna	CA Combination	Test condition	Modulation	PCC						SCC					Total power	
				PCC Band	PCC Bandwidth (MHz)	PCC UL RB size	PCC UL RB offset	PCC UL Channel	PCC UL Channel	SCC Band	SCC Bandwidth (MHz)	SCC UL Channel	SCC UL RB size	SCC UL RB offset	Conducted power (dbm)	Tune up (dbm)
Second antenna	CA_5B	Rec on,Left Head	QPSK	5	10	1	49	20450	2450	5	10	20549	1	0	20.70	21.50
Second antenna	CA_5B	Rec on,Left Head	QPSK	5	10	1	49	20476	2525	5	10	20575	1	0	20.20	21.50
Second antenna	CA_5B	Rec on,Left Head	QPSK	5	10	1	0	20600	2600	5	10	20501	1	49	19.70	21.50
Second antenna	CA_5B	Rec on+WiFi,Left Head	QPSK	5	10	1	49	20450	2450	5	10	20549	1	0	18.25	18.50
Second antenna	CA_5B	Rec on+WiFi,Left Head	QPSK	5	10	1	49	20476	2525	5	10	20575	1	0	18.00	18.50
Second antenna	CA_5B	Rec on+WiFi,Left Head	QPSK	5	10	1	0	20600	2600	5	10	20501	1	49	18.10	18.50
Second antenna	CA_5B	Rec on,Right Head	QPSK	5	10	1	49	20450	2450	5	10	20549	1	0	20.20	20.50
Second antenna	CA_5B	Rec on,Right Head	QPSK	5	10	1	49	20476	2525	5	10	20575	1	0	20.20	20.50
Second antenna	CA_5B	Rec on,Right Head	QPSK	5	10	1	0	20600	2600	5	10	20501	1	49	19.21	20.50
Second antenna	CA_5B	Rec on+WiFi,Right Head	QPSK	5	10	1	49	20450	2450	5	10	20549	1	0	17.02	17.50
Second antenna	CA_5B	Rec on+WiFi,Right Head	QPSK	5	10	1	49	20476	2525	5	10	20575	1	0	16.98	17.50
Second antenna	CA_5B	Rec on+WiFi,Right Head	QPSK	5	10	1	0	20600	2600	5	10	20501	1	49	16.88	17.50
Second antenna	CA_5B	Rec off	QPSK	5	10	1	49	20450	2450	5	10	20549	1	0	23.70	25.00
Second antenna	CA_5B	Rec off	QPSK	5	10	1	49	20450	2450	5	10	20549	1	0	23.70	25.00
Second antenna	CA_5B	Rec off	QPSK	5	10	1	49	20450	2450	5	10	20549	1	0	23.70	25.00
Second antenna	CA_5B	Rec off+wifi	QPSK	5	10	1	49	20450	2450	5	10	20549	1	0	20.42	22.00
Second antenna	CA_5B	Rec off+wifi	QPSK	5	10	1	49	20476	2525	5	10	20575	1	0	20.68	22.00
Second antenna	CA_5B	Rec off+wifi	QPSK	5	10	1	0	20600	2600	5	10	20501	1	49	19.50	22.00
Main antenna	CA_5B	Full power	QPSK	5	10	1	49	20450	2450	5	10	20549	1	0	23.81	25.00
Main antenna	CA_5B	Full power	QPSK	5	10	1	49	20476	2525	5	10	20575	1	0	23.72	25.00
Main antenna	CA_5B	Full power	QPSK	5	10	1	0	20600	2600	5	10	20501	1	49	22.70	25.00

Table 138: Additional conducted power test results of UL intra-band CA

2) For inter-band uplink CA conducted power measurement: Measure the maximum output power of each for each inter-band UL CA-band pair per 3GPP TS 36.521-1. As Inter-band CA operating bands (two bands) of this device do not support MPR, the maximum output power (including tune-up limit) for different RB allocations are the same. So the conducted power test reduction of inter-band uplink LTE CA is applied and the additional output power with inter-band uplink CA active are required for the following configurations:

- Band A is used as PCC and Band B is used as SCC
- Band B is used as PCC and Band A is used as SCC

The PCC is configured to the configuration with the highest SAR of PCC band when carrier aggregation was not active.

The SCC is configured to the configuration with the highest SAR of SCC band when carrier aggregation was not active.

For Uplink CA_2A-12A, the LTE B12 should be set on Second antenna and LTE B2 was set on Main Antenna, while the opposite setting was not supported by design.

Test condition	Test position	CC MOD	UL allocation																
			NRB_alloc	PCC&SCC RB allocations							Conducted power(dBm)						Tune up(dbm)		
				LCRB@Rbstart															
				Configuration															
				PCC			SCC				PCC	SCC	Total	PCC	SCC	Total			
Channel	Antenna	RB allocations	Channel	Antenna	RB allocations														
Hotspot off (Full power)	Head (Left touch)	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	22.72	21.88	NA	24.0	23.0	NA				
		QPSK	75	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	21.01	19.34	23.27	22.0	20.0	24.20				
		QPSK	75	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	19.64	18.68	22.20	20.0	19.0	22.5				
	Head (Left tilt)	Non CA mode		19100	Main	B2_1RB@99	23130	Sec	B12_25RB@0	24.94	22.35	NA	25.0	23.0	NA				
		QPSK	75	19100	Main	B2_1RB@99	23130	Sec	B12_25RB@0	20.13	19.24	22.72	22.0	20.0	24.20				
		QPSK	75	23130	Sec	B12_25RB@0	19100	Main	B2_1RB@99	19.60	18.72	22.19	20.0	19.0	22.5				
	Head (Right touch)	Non CA mode		19100	Main	B2_1RB@99	23130	Sec	B12_1RB@49	24.94	21.96	NA	25.0	22.5	NA				
		QPSK	75	19100	Main	B2_1RB@99	23130	Sec	B12_1RB@49	21.09	19.31	23.30	22.0	20.0	24.20				
		QPSK	75	23130	Sec	B12_1RB@49	19100	Main	B2_1RB@99	19.67	18.64	22.20	20.0	19.0	22.5				
	Head (Right tilt)	Non CA mode		19100	Main	B2_1RB@99	23130	Sec	B12_1RB@49	24.94	21.96	NA	25.0	22.5	NA				
		QPSK	75	19100	Main	B2_1RB@99	23130	Sec	B12_1RB@49	21.09	19.31	23.30	22.0	20.0	24.20				
		QPSK	75	23130	Sec	B12_1RB@49	19100	Main	B2_1RB@99	19.67	18.64	22.20	20.0	19.0	22.5				
	BodyWorn Front Side 15mm	Non CA mode		18700	Main	B2_50RB@50	23130	Sec	B12_1RB@49	22.72	23.48	NA	24.0	24.5	NA				
		QPSK	2	18700	Main	B2_50RB@50	23130	Sec	B12_1RB@49	21.13	19.26	23.31	22.0	20.0	24.20				
		QPSK	2	23130	Sec	B12_1RB@49	18700	Main	B2_50RB@50	19.71	18.66	22.23	20.0	19.0	22.5				
	BodyWorn Back Side 15mm	Non CA mode		18700	Main	B2_50RB@50	23130	Sec	B12_1RB@49	22.72	23.48	NA	24.0	24.5	NA				
		QPSK	2	18700	Main	B2_50RB@50	23130	Sec	B12_1RB@49	21.13	19.26	23.31	22.0	20.0	24.20				
		QPSK	2	23130	Sec	B12_1RB@49	18700	Main	B2_50RB@50	19.71	18.66	22.23	20.0	19.0	22.5				
Hotspot on	HOTSPOT Front Side 10mm	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.14	20.40	NA	19.5	21.5	NA				
		QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	18.40	19.90	22.22	19.5	20.0	23.0				
		QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	19.60	18.60	22.14	20.0	19.0	22.5				
	HOTSPOT Back Side 10mm	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.14	20.40	NA	19.5	21.5	NA				
		QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	18.40	19.90	22.22	19.5	20.0	23.0				
		QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	19.60	18.60	22.14	20.0	19.0	22.5				
	HOTSPOT Left Side10mm	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.14	20.40	NA	19.5	21.5	NA				
		QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	18.40	19.90	22.22	19.5	20.0	23.0				
		QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	19.60	18.60	22.14	20.0	19.0	22.5				
	HOTSPOT Right Side 10mm	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.14	20.40	NA	19.5	21.5	NA				
		QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	18.40	19.90	22.22	19.5	20.0	23.0				
		QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	19.60	18.60	22.14	20.0	19.0	22.5				
	HOTSPOT Top Side 10mm	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	NA	20.40	NA	19.5	21.5	NA				
		QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	18.40	19.90	22.22	19.5	20.0	23.0				
		QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	19.60	18.60	22.14	20.0	19.0	22.5				

	HOTSPOT Bottom Side 10mm	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.14	NA	NA	19.5	21.5	NA
		QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	18.40	19.90	22.22	19.5	20.0	23.0
		QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	19.60	18.60	22.14	20.0	19.0	22.5

Table 139: Additional conducted power test results of UL intra-band CA

Test condition	Test Position	CC MOD	UL allocation															
			NRB_alloc	PCC&SCC RB allocations										Conducted power(dBm)Tune up(dBm)				
				LCRB@Rbstart														
				Configuration														
				PCC			SCC1			SCC2		PCC	SCC	Total	PCC	SCC	Total	
Channel (UL)	Antenna	RB allocations	Channel (UL)	Antenna	RB allocations	Channel (DL)	RB allocations											
Hotspot off (Full power)	Head (Left touch)	QPSK	75	18700	Main	B2_50RB@50	23060	Sec	/	/	/	21.01	19.34	23.27	22.0	20.0	24.20	
		QPSK	75	23060	Sec	B12_25RB@25	18700	Main	/	/	/	19.64	18.68	22.20	20.0	19.0	22.5	
	Head (Left touch)	QPSK	75	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	9820	B30_100RB@0	21.13	19.33	23.33	22.0	20.0	24.20	
		QPSK	75	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	9820	B30_100RB@0	19.43	18.66	22.07	20.0	19.0	22.5	
	Head (Left tilt)	QPSK	75	19100	Main	B2_1RB@99	23130	Sec	/	/	/	20.13	19.24	22.72	22.0	20.0	24.20	
		QPSK	75	23130	Sec	B12_25RB@0	19100	Main	/	/	/	19.60	18.72	22.19	20.0	19.0	22.5	
	Head (Left tilt)	QPSK	75	19100	Main	B2_1RB@99	23130	Sec	B12_25RB@0	9820	B30_100RB@0	20.00	19.33	22.69	22.0	20.0	24.20	
		QPSK	75	23130	Sec	B12_25RB@0	19100	Main	B2_1RB@99	9820	B30_100RB@0	19.44	18.43	21.97	20.0	19.0	22.5	
	Head (Right touch)	QPSK	75	19100	Main	B2_1RB@99	23130	Sec	/	/	/	21.09	19.31	23.30	22.0	20.0	24.20	
		QPSK	75	23130	Sec	B12_1RB@49	19100	Main	/	/	/	19.67	18.64	22.20	20.0	19.0	22.5	
	Head (Right touch)	QPSK	75	19100	Main	B2_1RB@99	23130	Sec	B12_1RB@49	9820	B30_100RB@0	20.99	19.36	23.26	22.0	20.0	24.20	
		QPSK	75	23130	Sec	B12_1RB@49	19100	Main	B2_1RB@99	9820	B30_100RB@0	19.56	18.49	22.07	20.0	19.0	22.5	
	Head (Right tilt)	QPSK	75	19100	Main	B2_1RB@99	23130	Sec	/	/	/	21.09	19.31	23.30	22.0	20.0	24.20	
		QPSK	75	23130	Sec	B12_1RB@49	19100	Main	/	/	/	19.67	18.64	22.20	20.0	19.0	22.5	
	Head (Right tilt)	QPSK	75	19100	Main	B2_1RB@99	23130	Sec	B12_1RB@49	9820	B30_100RB@0	21.16	19.23	23.31	22.0	20.0	24.20	
		QPSK	75	23130	Sec	B12_1RB@49	19100	Main	B2_1RB@99	9820	B30_100RB@0	19.66	18.76	22.24	20.0	19.0	22.5	
	BodyWorn Front Side 15mm	QPSK	2	18700	Main	B2_50RB@50	23130	Sec	/	/	/	21.13	19.26	23.31	22.0	20.0	24.20	
		QPSK	2	23130	Sec	B12_1RB@49	18700	Main	/	/	/	19.71	18.66	22.23	20.0	19.0	22.5	
	BodyWorn Front Side 15mm	QPSK	2	18700	Main	B2_50RB@50	23130	Sec	B12_1RB@49	9820	B30_100RB@0	21.06	19.38	23.31	22.0	20.0	24.20	
		QPSK	2	23130	Sec	B12_1RB@49	18700	Main	B2_50RB@50	9820	B30_100RB@0	19.77	18.43	22.16	20.0	19.0	22.5	
	BodyWorn Back Side 15mm	QPSK	2	18700	Main	B2_50RB@50	23130	Sec	/	/	/	21.13	19.26	23.31	22.0	20.0	24.20	
		QPSK	2	23130	Sec	B12_1RB@49	18700	Main	/	/	/	19.71	18.66	22.23	20.0	19.0	22.5	
	BodyWorn Back Side 15mm	QPSK	2	18700	Main	B2_50RB@50	23130	Sec	B12_1RB@49	9820	B30_100RB@0	21.06	19.38	23.31	22.0	20.0	24.20	
		QPSK	2	23130	Sec	B12_1RB@49	18700	Main	B2_50RB@50	9820	B30_100RB@0	19.77	18.43	22.16	20.0	19.0	22.5	
Hotspot on	HOTSPOT Front Side 10mm	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	/	/	/	18.40	19.90	22.22	19.5	20.0	23.0	
		QPSK	2	23060	Sec	B12_25RB@25	18700	Main	/	/	/	19.60	18.60	22.14	20.0	19.0	22.5	
	HOTSPOT Front Side 10mm	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	9820	B30_100RB@0	18.13	18.76	21.47	19.5	20.0	23.0	
		QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	9820	B30_100RB@0	19.52	18.67	22.13	20.0	19.0	22.5	
	HOTSPOT Back Side 10mm	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	/	/	/	18.40	19.90	22.22	19.5	20.0	23.0	
		QPSK	2	23060	Sec	B12_25RB@25	18700	Main	/	/	/	19.60	18.60	22.14	20.0	19.0	22.5	
	HOTSPOT Back Side 10mm	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	9820	B30_100RB@0	18.13	18.76	21.47	19.5	20.0	23.0	
		QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	9820	B30_100RB@0	19.52	18.67	22.13	20.0	19.0	22.5	
	HOTSPOT Left Side10mm	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	/	/	/	18.40	19.90	22.22	19.5	20.0	23.0	
		QPSK	2	23060	Sec	B12_25RB@25	18700	Main	/	/	/	19.60	18.60	22.14	20.0	19.0	22.5	
	HOTSPOT Left Side10mm	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	9820	B30_100RB@0	18.13	18.76	21.47	19.5	20.0	23.0	
		QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	9820	B30_100RB@0	19.52	18.67	22.13	20.0	19.0	22.5	
HOTSPOT Right Side 10mm	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	/	/	/	18.40	19.90	22.22	19.5	20.0	23.0		
	QPSK	2	23060	Sec	B12_25RB@25	18700	Main	/	/	/	19.60	18.60	22.14	20.0	19.0	22.5		

	HOTSPOT Right Side 10mm	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	9820	B30_100RB@0	18.13	18.76	21.47	19.5	20.0	23.0
		QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	9820	B30_100RB@0	19.52	18.67	22.13	20.0	19.0	22.5
	HOTSPOT Top Side 10mm	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	/	/	/	18.40	19.90	22.22	19.5	20.0	23.0
		QPSK	2	23060	Sec	B12_25RB@25	18700	Main	/	/	/	19.60	18.60	22.14	20.0	19.0	22.5
	HOTSPOT Top Side 10mm	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	9820	B30_100RB@0	18.13	18.76	21.47	19.5	20.0	23.0
		QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	9820	B30_100RB@0	19.52	18.67	22.13	20.0	19.0	22.5
	HOTSPOT Bottom Side 10mm	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	/	/	/	18.40	19.90	22.22	19.5	20.0	23.0
		QPSK	2	23060	Sec	B12_25RB@25	18700	Main	/	/	/	19.60	18.60	22.14	20.0	19.0	22.5
	HOTSPOT Bottom Side 10mm	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	9820	B30_100RB@0	18.13	18.76	21.47	19.5	20.0	23.0
		QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	9820	B30_100RB@0	19.52	18.67	22.13	20.0	19.0	22.5

Table 140: Additional conducted power test results of UL CA_2A-12A with DL CA_2A-12A-30A

Note: For UL CA_2A-12A with DL CA_2A-12A-30A, SAR test is not required when the highest maximum output power for UL CA_2A-12A with DL CA_2A-12A-30A is <0.25dB higher than UL CA_2A-12A

7.1.31 Conducted power measurements of LTE Downlink 4 x 4 MIMO

The following conducted power measurement results of LTE Downlink 4 x 4 MIMO are provided to quantify LTE Downlink 4 x 4 MIMO SAR test exclusion per 201705 FCC RF Exposure TCB workshop slides. SAR test exclusion for LTE DL 4x4 MIMO should be determined by UL power measurements with and without DL MIMO using the highest UL output power configuration without DL MIMO to confirm that UL output with DL MIMO is $< \frac{1}{4}$ dB higher.

Power test equipment: The Anritsu Radio Communication Analyzer MT8821C were used for LTE Downlink 4 x 4 MIMO .

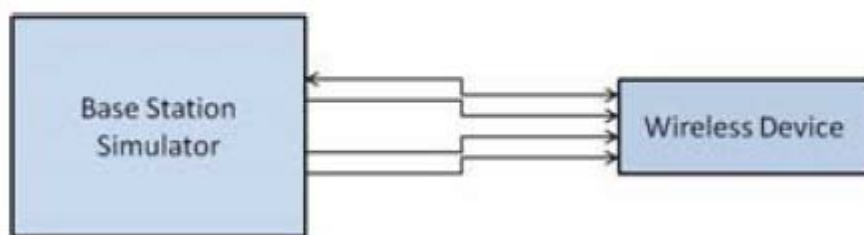


Figure: Power Measurement setup for LTE DL 4x4 MIMO with single carrier

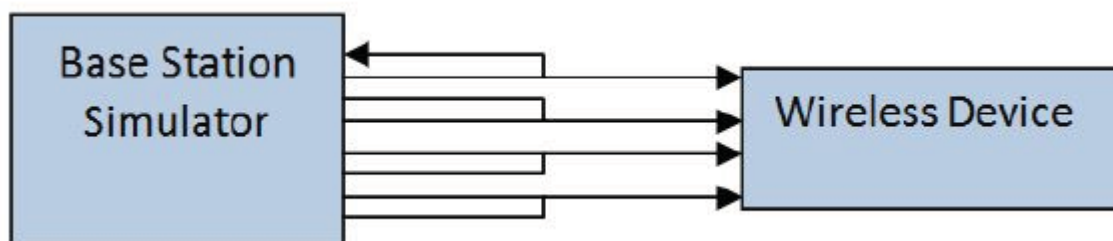


Figure: Power Measurement setup for LTE DL 4x4 MIMO with two component carriers aggregation

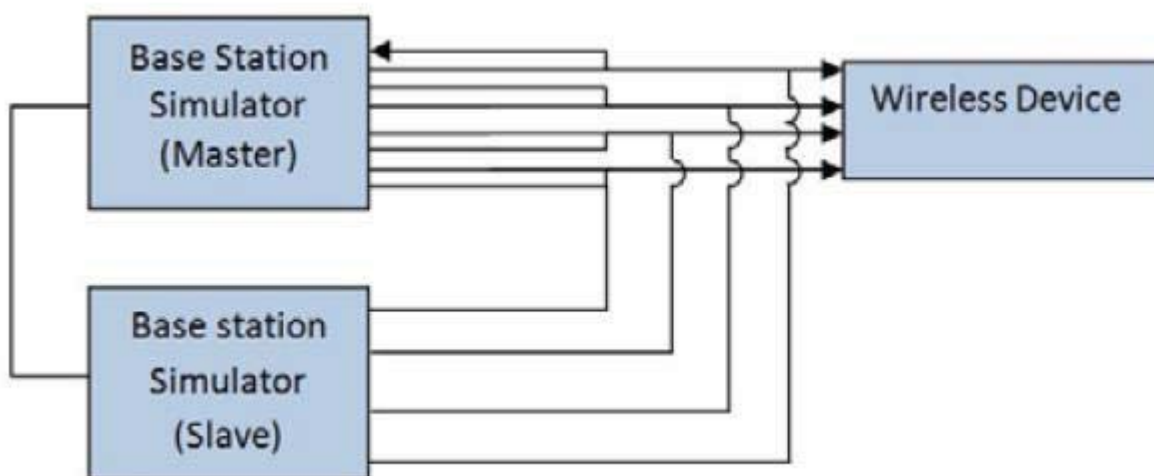


Figure: Power Measurement setup for LTE DL 4x4 MIMO with three/four component carriers aggregation

1) The power of LTE DL 4x4 MIMO with single carrier:

LTE Band	Bandwidth/MHz	Channel	Modulation	RB Size	RB Offset	LTE DL 4x4 MIMO active Tx. Power (dBm)	LTE Single carrier Tx. Power (dBm)	Tune-up
LTE Band 2	20	19100CH	QPSK	1	99	21.55	21.50	25
LTE Band 30	10	27710	QPSK	1	25	21.95	22.73	25
LTE Band 66	10	132322	QPSK	3	0	22.57	23.10	25

Table 141:Conducted power measurement results of single carrier DL 4x4 MIMO for main antenna (Full Power)

LTE Band	Bandwidth/MHz	Channel	Modulation	RB Size	RB Offset	LTE DL 4x4 MIMO active Tx. Power (dBm)	LTE Single carrier Tx. Power (dBm)	Tune-up
LTE Band 2	1.4	18900	QPSK	1	3	16.58	16.53	17.50
LTE Band 30	10	27710	QPSK	1	25	19.21	19.03	21.00
LTE Band 66	10	132022	QPSK	1	0	16.04	15.99	17.00

Table 142:Conducted power measurement results of single carrier DL 4x4 MIMO for main antenna (hotspot on+SAR sensor on)

LTE Band	Bandwidth/MHz	Channel	Modulation	RB Size	RB Offset	LTE DL 4x4 MIMO active Tx. Power (dBm)	LTE Single carrier Tx. Power (dBm)	Tune-up
LTE Band 2	20	19100CH	QPSK	1	99	18.56	18.02	19.50
LTE Band 30	10	27710	QPSK	1	25	20.17	20.18	22.00
LTE Band 66	15	132047	QPSK	1	38	18.55	18.60	19.50

Table 143:Conducted power measurement results of single carrier DL 4x4 MIMO for main antenna (hotspot on+ SAR sensor off)

LTE Band	Bandwidth/MHz	Channel	Modulation	RB Size	RB Offset	LTE DL 4x4 MIMO active Tx. Power (dBm)	LTE Single carrier Tx. Power (dBm)	Tune-up
LTE Band 2	20	18900	QPSK	1	0	21.78	22.04	23.00
LTE Band 30	5	27735	QPSK	1	0	21.62	21.72	23.00
LTE Band 66	15	132597	QPSK	36	0	21.76	21.74	22.00

Table 144:Conducted power measurement results of single carrier DL 4x4 MIMO for main antenna (hotspot off+SAR sensor on)

LTE Band	Bandwidth/MHz	Channel	Modulation	RB Size	RB Offset	LTE DL 4x4 MIMO active Tx. Power (dBm)	LTE Single carrier Tx. Power (dBm)	Tune-up
LTE Band 2	20	19100	64QAM	1	99	21.13	21.17	21.50
LTE Band 30	10	27710	16QAM	1	25	21.02	21.33	21.50
LTE Band 66	20	132322	16QAM	1	99	21.64	22.24	22.50

Table 145:Conducted power measurement results of single carrier DL 4x4 MIMO for second antenna (Full Power)

LTE Band	Bandwidth/MHz	Channel	Modulation	RB Size	RB Offset	LTE DL 4x4 MIMO active Tx. Power (dBm)	LTE Single carrier Tx. Power (dBm)	Tune-up
LTE Band 2	20	19100	64QAM	50	0	20.10	20.27	20.50
LTE Band 30	10	27710	QPSK	1	25	21.68	21.72	22.00
LTE Band 66	20	132322	64QAM	1	0	20.31	20.47	20.50

Table 146:Conducted power measurement results of single carrier DL 4x4 MIMO for second antenna (receiver on , Left head)

LTE Band	Bandwidth/MHz	Channel	Modulation	RB Size	RB Offset	LTE DL 4x4 MIMO active Tx. Power (dBm)	LTE Single carrier Tx. Power (dBm)	Tune-up
LTE Band 2	20	19100	64QAM	50	0	16.00	16.75	17.00
LTE Band 30	10	27710	16QAM	1	25	16.00	16.13	16.50
LTE Band 66	20	132322	64QAM	1	0	16.90	17.30	17.50

Table 147:Conducted power measurement results of single carrier DL 4x4 MIMO for second antenna (receiver on , Right head)

LTE Band	Bandwidth/MHz	Channel	Modulation	RB Size	RB Offset	LTE DL 4x4 MIMO active Tx. Power (dBm)	LTE Single carrier Tx. Power (dBm)	Tune-up
LTE Band 2	20	19100	64QAM	1	0	17.00	18.35	18.50
LTE Band 30	10	27710	QPSK	1	49	17.16	18.24	18.50
LTE Band 66	20	132072	16qam	1	50	17.92	19.32	19.50

Table 148:Conducted power measurement results of single carrier DL 4x4 MIMO for second antenna (receiver off+ wifi Simultaneous Transmission)

LTE Band	Bandwidth/MHz	Channel	Modulation	RB Size	RB Offset	LTE DL 4x4 MIMO active Tx. Power (dBm)	LTE Single carrier Tx. Power (dBm)	Tune-up
LTE Band 2	20	18700	16QAM	1	0	17.00	17.26	17.50
LTE Band 30	10	27710	16QAM	1	25	17.36	18.67	19.00
LTE Band 66	20	132072	64QAM	1	0	16.88	17.30	17.50

Table 149:Conducted power measurement results of single carrier DL 4x4 MIMO for second antenna (receiver on , Left head+ wifi Simultaneous Transmission)

LTE Band	Bandwidth/MHz	Channel	Modulation	RB Size	RB Offset	LTE DL 4x4 MIMO active Tx. Power (dBm)	LTE Single carrier Tx. Power (dBm)	Tune-up
LTE Band 2	20	18700	16QAM	50	0	12.56	13.67	14.00
LTE Band 30	10	27710	16QAM	1	25	12.00	13.21	13.50
LTE Band 66	20	132072	64QAM	1	50	12.60	14.18	14.50

Table 150:Conducted power measurement results of single carrier DL 4x4 MIMO for second antenna (receiver on , Right head + wifi Simultaneous Transmission)

2) The power of LTE DL 4x4 MIMO with carrier aggregation:

For LTE DL MIMO with carrier aggregation, the same SAR test exclusion procedure should be considered. According to 201711 FCC RF Exposure TCB workshop slides, the far right most configurations that require power measurements of LTE DL MIMO with carrier aggregation are highlighted in the table as below:

2 bands / 2CC	2 bands / 3CC	2 bands / 4CC	2 bands / 5CC	3 bands / 3CC	3 bands / 4CC	3 bands / 5CC	4 bands / 4CC
CA_2A-5A(0)(1)				CA_2A-5A-30A(0)	CA_2A-2A-5A-30A(0)		
				CA_2A-12A-66A(0)(1)	CA_2A-2A-12A-66A(0)		
					CA_2A-12A-66A-66A(0)		
							CA_2A-12A-30A-66A(0)
					CA_2A-5B-30A(0)		
					CA_2A-5B-66A(0)		
CA_2A-29A(0)(1)(2)				CA_2A-29A-30A(0)			
CA_2A-30A(0)	CA_2A-2A-30A(0)				CA_2A-2A-5A-30A(0)		
				CA_2A-30A-66A(0)			CA_2A-5A-30A-66A(0)
CA_2A-46A(0)							
	CA_2A-46C(0)						
		CA_2A-46D(0)					
CA_2A-66A(0)(1)(2)	CA_2A-2A-66A(0)				CA_2A-2A-5A-66A(0)		
	CA_2A-66A-66A(0)				CA_2A-5A-66A-66A(0)		
CA_5A-30A(0)				CA_2A-5A-30A(0)	CA_2A-2A-5A-30A(0)		
				CA_5A-30A-66A(0)	CA_5A-30A-66A-66A(0)		
					CA_5B-30A-66A(0)		
CA_5A-66A(0)				CA_2A-5A-66A(0)	CA_2A-2A-5A-66A(0)		
CA_12A-30A(0)				CA_2A-12A-30A(0)	CA_2A-2A-12A-30A(0)		
CA_29A-30A(0)				CA_2A-29A-30A(0)			
CA_29A-66A(0)				CA_29A-30A-66A(0)			
CA_30A-66A(0)	CA_30A-66A-66A(0)				CA_5A-30A-66A-66A(0)		
CA_46A-66A(0)							
	CA_46C-66A(0)						
		CA_46D-66A(0)					
				CA_12A-30A-66A(0)	CA_12A-30A-66A-66A(0)		

Additional SAR test for LTE DL 4x4 MIMO is not required since the highest UL output power configuration with DL MIMO is < ¼ dB higher than the UL output power configuration without DL MIMO .

DL LTE CA Class	PCC										SCC1				SCC 2				SCC 3				Power		
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	DL Antenna Configuration	Rel 8 LTE Tx Power (dBm)	DL LTE Tx Power (dBm)	Tune-up
CA_2A-46A(0)	2	20	QPSK	1	99	100	0	19100	1100	4*4 MIMO	46	20	50590	2*2 MIMO	/	/	/	/	/	/	/	/	24.94	23.11	25.00
CA_46A-66A(0)	66	20	QPSK	1	99	100	0	132572	67036	4*4 MIMO	46	20	50590	2*2 MIMO	/	/	/	/	/	/	/	/	23.91	23.14	25.00
CA_2A-46C(0)	2	20	QPSK	1	99	100	0	19100	1100	4*4 MIMO	46	20	50592	2*2 MIMO	46	20	50590	2*2 MIMO	/	/	/	/	24.94	23.36	25.00
CA_46C-66A(0)	66	20	QPSK	1	99	100	0	132572	67036	4*4 MIMO	46	20	50592	2*2 MIMO	46	20	50590	2*2 MIMO	/	/	/	/	23.91	23.40	25.00
CA_2A-46D(0)	2	20	QPSK	1	99	100	0	19100	1100	4*4 MIMO	46	20	50482	2*2 MIMO	46	20	50590	2*2 MIMO	46	20	50888	2*2 MIMO	24.94	23.50	25.00
CA_46D-66A(0)	66	20	QPSK	1	99	100	0	132572	67036	4*4 MIMO	46	20	50482	2*2 MIMO	46	20	50590	2*2 MIMO	46	20	50888	2*2 MIMO	23.91	23.48	25.00
CA_2A-29A-30A(0)	2	20	QPSK	1	99	100	0	19100	1100	4*4 MIMO	29	10	9715	2*2 MIMO	30	10	9820	4*4 MIMO	/	/	/	/	24.94	23.35	25.00
	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	2	20	900	4*4 MIMO	29	10	9715	2*2 MIMO	/	/	/	/	24.05	23.50	25.00
CA_29A-30A-66A(0)	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	29	10	9715	2*2 MIMO	66	20	66536	4*4 MIMO	/	/	/	/	24.05	23.19	25.00
	66	20	QPSK	1	99	100	0	132572	67036	4*4 MIMO	29	10	9715	2*2 MIMO	30	10	9820	4*4 MIMO	/	/	/	/	24.91	24.50	25.00
CA_2A-12A-66A-66A(0)	2	20	QPSK	1	99	100	0	19100	1100	4*4 MIMO	12	10	5095	2*2 MIMO	66	20	66536	4*4 MIMO	66	20	67236	2*2 MIMO	24.94	23.74	25.00
	66	20	QPSK	1	99	100	0	132572	67036	2*2 MIMO	66	20	66536	4*4 MIMO	2	20	900	4*4 MIMO	12	10	5095	2*2 MIMO	24.91	24.41	25.00
CA_12A-30A-66A-66A	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	12	10	5095	2*2 MIMO	66	20	66536	4*4 MIMO	66	20	67236	2*2 MIMO	24.05	23.38	25.00
	66	20	QPSK	1	99	100	0	132572	67036	2*2 MIMO	66	20	66536	4*4 MIMO	12	10	5095	2*2 MIMO	30	10	9820	4*4 MIMO	24.91	23.36	25.00
CA_2A-2A-5A-30A	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	2	20	1100	2*2 MIMO	2	20	700	2*2 MIMO	30	10	9820	4*4 MIMO	24.50	23.99	25.00
	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	2	20	1100	2*2 MIMO	2	20	700	2*2 MIMO	5	10	2525	2*2 MIMO	24.05	23.11	25.00
CA_2A-12A-12A-66A(0)	2	20	QPSK	1	99	100	0	19100	1100	2*2 MIMO	2	20	700	2*2 MIMO	12	10	5095	2*2 MIMO	66	20	66536	4*4 MIMO	24.84	23.66	25.00
	66	20	QPSK	1	99	100	0	132572	67036	4*4 MIMO	2	20	1100	2*2 MIMO	2	20	700	2*2 MIMO	12	10	5095	2*2 MIMO	24.91	23.58	25.00
CA_2A-5B-30A(0)	2	20	QPSK	1	99	100	0	19100	1100	4*4 MIMO	5	10	2549	2*2 MIMO	5	10	2549	2*2 MIMO	30	10	9820	4*4 MIMO	24.94	23.88	25.00
	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	5	10	2549	2*2 MIMO	30	10	9820	4*4 MIMO	2	20	900	2*2 MIMO	24.50	23.96	25.00
CA_2A-5B-66A(0)	2	20	QPSK	1	99	100	0	19100	1100	4*4 MIMO	5	10	2549	2*2 MIMO	5	10	2549	2*2 MIMO	66	20	66536	4*4 MIMO	24.94	23.66	25.00
	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	5	10	2549	4*4 MIMO	5	10	2549	2*2 MIMO	66	20	66536	4*4 MIMO	24.50	23.88	25.00
CA_2A-5A-66A-66A(0)	2	20	QPSK	1	99	100	0	19100	1100	4*4 MIMO	5	10	2549	2*2 MIMO	5	10	2549	2*2 MIMO	66	20	66536	4*4 MIMO	24.94	23.67	25.00
	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	5	10	2549	2*2 MIMO	2	20	700	2*2 MIMO	66	20	66536	4*4 MIMO	24.91	23.67	25.00
CA_5A-30A-66A-66A(0)	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	30	10	9820	4*4 MIMO	66	20	66536	4*4 MIMO	66	20	67236	2*2 MIMO	24.50	23.79	25.00
	66	20	QPSK	1	99	100	0	132572	67036	2*2 MIMO	66	20	66536	2*2 MIMO	5	10	2525	2*2 MIMO	66	20	67236	2*2 MIMO	24.05	23.29	25.00
CA_5B-30A-66A(0)	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	5	10	2549	2*2 MIMO	30	10	9820	4*4 MIMO	66	20	66536	2*2 MIMO	24.50	23.76	25.00
	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	5	10	2549	2*2 MIMO	5	10	2549	2*2 MIMO	66	20	66536	2*2 MIMO	24.05	23.66	25.00
CA_2A-12A-12A-30A(0)	2	20	QPSK	1	99	100	0	19100	1100	2*2 MIMO	2	20	700	2*2 MIMO	12	10	5095	2*2 MIMO	30	10	9820	4*4 MIMO	24.94	23.80	25.00
	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	2	20	1100	2*2 MIMO	2	20	700	2*2 MIMO	12	10	5095	2*2 MIMO	24.05	23.34	25.00
CA_2A-12A-30A-66A(0)	2	20	QPSK	1	99	100	0	19100	1100	2*2 MIMO	12	10	5095	2*2 MIMO	30	10	9820	4*4 MIMO	66	20	66536	2*2 MIMO	24.94	23.13	25.00
	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	2	20	900	2*2 MIMO	12	10	5095	2*2 MIMO	66	20	66536	2*2 MIMO	24.05	23.46	25.00
CA_12A-30A-66A-66A(0)	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	30	10	9820	2*2 MIMO	2	20	900	2*2 MIMO	12	10	5095	2*2 MIMO	24.91	23.83	25.00
	66	20	QPSK	1	99	100	0	132572	67036	4*4 MIMO	30	10	9820	2*2 MIMO	2	20	900	2*2 MIMO	12	10	5095	2*2 MIMO	24.94	23.44	25.00
CA_5A-30A-66A-66A(0)	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	30	10	9820	4*4 MIMO	66	20	66536	2*2 MIMO	2	20	900	2*2 MIMO	24.50	23.84	25.00
	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	66	20	66536	2*2 MIMO	2	20	900	2*2 MIMO	5	10	2525	2*2 MIMO	24.05	23.44	25.00



DL TE CA Class	PCC										SCC1										SCC 2										SCC 3										Power		
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	DL Antenna Configuration	Rel 8 LTE Tx Power (dBm)	DL TE CA Tx Power (dBm)	Tune-up														
CA_2A-45A(0)	2	20	16QAM	1	99	100	0	18900	900	4*4 MIMO	46	20	50590	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	/	/	/	/	17.38	16.09	17.50												
CA_45A-55A(0)	66	20	64QAM	1	99	100	0	18900	900	4*4 MIMO	46	20	50590	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	/	/	/	/	17.00	15.58	17.00												
CA_2A-45C(0)	2	20	16QAM	1	99	100	0	18900	900	4*4 MIMO	46	20	50592	2*2 MIMO	46	20	50590	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	17.38	16.07	17.50												
CA_45C-55A(0)	66	20	64QAM	1	99	100	0	18900	900	4*4 MIMO	46	20	50592	2*2 MIMO	46	20	50590	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	17.00	15.39	17.50												
CA_2A-45D(0)	2	20	16QAM	1	99	100	0	18900	900	4*4 MIMO	46	20	50452	2*2 MIMO	46	20	50590	2*2 MIMO	46	20	50590	2*2 MIMO	46	20	50588	2*2 MIMO	46	20	50588	2*2 MIMO	17.38	16.04	17.50										
CA_45D-55A(0)	66	20	64QAM	1	99	100	0	18900	900	4*4 MIMO	46	20	50452	2*2 MIMO	46	20	50590	2*2 MIMO	46	20	50590	2*2 MIMO	46	20	50588	2*2 MIMO	46	20	50588	2*2 MIMO	17.00	15.42	17.00										
CA_2A-29A-30A(0)	2	20	16QAM	1	99	100	0	18900	900	4*4 MIMO	29	10	9715	2*2 MIMO	30	10	9820	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.38	15.61	17.50												
CA_29A-30A-30A(0)	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	2	20	900	4*4 MIMO	29	10	9715	2*2 MIMO	30	10	9820	4*4 MIMO	/	/	/	/	/	/	20.80	20.00	21.00												
CA_2A-29A-30A-30A(0)	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	29	10	9715	2*2 MIMO	30	10	9820	4*4 MIMO	66	20	65536	2*2 MIMO	/	/	/	/	/	/	20.80	19.66	21.00												
CA_2A-12A-55A-55A(0)	2	20	16QAM	1	99	100	0	18900	900	4*4 MIMO	12	10	5059	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	17.38	16.17	17.50										
CA_12A-30A-66A-66A	66	20	64QAM	1	99	100	0	18900	900	4*4 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	12	10	9820	4*4 MIMO	12	10	9820	4*4 MIMO	12	10	9820	4*4 MIMO	17.00	15.66	17.00										
CA_12A-30A-66A-66A	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	12	10	5059	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	20.80	19.36	21.00										
CA_12A-30A-66A-66A	66	20	64QAM	1	99	100	0	18900	900	4*4 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	30	10	9820	4*4 MIMO	30	10	9820	4*4 MIMO	30	10	9820	4*4 MIMO	17.00	15.49	17.00										
CA_2A-2A-5A-30A	2	20	16QAM	1	99	100	0	18900	900	2*2 MIMO	2	20	700	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	30	10	9820	4*4 MIMO	30	10	9820	4*4 MIMO	17.38	16.32	17.50										
CA_2A-2A-5A-30A	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	2	20	1100	2*2 MIMO	2	20	700	2*2 MIMO	30	10	9820	4*4 MIMO	30	10	9820	4*4 MIMO	30	10	9820	4*4 MIMO	24.50	23.79	25.00										
CA_2A-2A-12A-66A(0)	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	5	10	2549	2*2 MIMO	2	20	700	2*2 MIMO	5	10	2525	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	17.00	15.46	17.00										
CA_2A-2A-12A-66A(0)	66	20	64QAM	1	99	100	0	18900	900	2*2 MIMO	2	20	700	2*2 MIMO	12	10	5059	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	17.38	16.35	17.50										
CA_2A-2A-12A-66A(0)	2	20	16QAM	1	99	100	0	18900	900	2*2 MIMO	2	20	700	2*2 MIMO	2	20	700	2*2 MIMO	12	10	5059	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	17.00	15.64	17.50										
CA_2A-2A-12A-66A(0)	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	2	20	900	4*4 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	24.50	23.91	25.00										
CA_2A-2A-12A-66A(0)	66	20	64QAM	1	99	100	0	18900	900	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	17.00	15.42	17.00										
CA_2A-2A-5A-66A(0)	2	20	16QAM	1	99	100	0	18900	900	2*2 MIMO	5	10	2525	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	17.38	16.11	17.50										
CA_2A-2A-5A-66A(0)	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	5	10	2549	2*2 MIMO	2	20	700	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	24.50	23.99	25.00										
CA_2A-2A-5A-66A(0)	66	20	64QAM	1	99	100	0	18900	900	2*2 MIMO	2	20	700	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	17.00	15.46	17.00										
CA_2A-2A-5A-66A(0)	2	20	16QAM	1	99	100	0	18900	900	4*4 MIMO	5	10	2525	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	17.38	16.38	17.50										
CA_2A-2A-5A-66A(0)	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	2	20	900	4*4 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	24.50	23.91	25.00										
CA_2A-2A-5A-66A(0)	66	20	64QAM	1	99	100	0	18900	900	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	17.00	15.72	17.00										
CA_2A-2A-5A-66A(0)	2	20	16QAM	1	99	100	0	18900	900	2*2 MIMO	30	10	9820	4*4 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	24.50	23.76	25.00										
CA_2A-2A-5A-66A(0)	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	5	10	2525	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	20.80	20.00	21.00										
CA_2A-2A-5A-66A(0)	66	20	64QAM	1	99	100	0	18900	900	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	17.00	15.61	17.00										
CA_2A-2A-5A-66A(0)	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	5	10	2549	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	24.50	23.85	25.00										
CA_2A-2A-5A-66A(0)	66	20	64QAM	1	99	100	0	18900	900	2*2 MIMO	5	10	2549	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	17.00	15.46	17.00										
CA_2A-2A-12A-30A(0)	2	20	16QAM	1	99	100	0	18900	900	4*4 MIMO	5	10	2525	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	17.38	16.43	17.50										
CA_2A-2A-12A-30A(0)	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	5	10	2549	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	24.50	23.91	25.00										
CA_2A-2A-12A-30A(0)	66	20	64QAM	1	99	100	0	18900	900	4*4 MIMO	2	20	700	2*2 MIMO	12	10	5059	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	17.00	15.72	17.00										
CA_2A-12A-30A-66A(0)	2	20	16QAM	1	99	100	0	18900	900	4*4 MIMO	12	10	5059	2*2 MIMO	30	10	9820	4*4 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	17.38	16.21	17.50										
CA_2A-12A-30A-66A(0)	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	2	20	900	2*2 MIMO	12	10	5059	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	20.80	19.69	21.00										
CA_2A-12A-30A-66A(0)	66	20	64QAM	1	99	100	0	18900	900	4*4 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	17.00	15.48	17.00										
CA_2A-2A-5A-30A	2	20	16QAM	1	99	100	0	18900	900	4*4 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	17.38	16.23	17.50										
CA_2A-2A-5A-30A	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	30	10	9820	4*4 MIMO	66	20	65536	2*2 MIMO	2	20	900	4*4 MIMO	66	20	65536	2*2 MIMO	66	20	65536	2*2 MIMO	24.50	23.91	25.00										
CA_2A-2A-5A-30A	66	20	64																																								

DL LTE CA Class	PCC										SCC1				SCC 2				SCC 3				Power		
	PCC Band	PCC Bandwidth (MHz)	PCC Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth h (MHz)	SCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth h (MHz)	SCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth h (MHz)	SCC DL Channel	DL Antenna Configuration	Rel 8 LTE Tx Power (dBm)	DL LTE CA Tx Power (dBm)	Tune-up
CA_2A-40A(0)	2	20	64QAM	1	99	100	0	18700	700	4*4 MIMO	48	20	50950	2*2 MIMO	/	/	/	/	/	/	/	/	22.81	22.03	23.00
CA_40A-66A(0)	66	20	16QAM	1	99	100	0	132572	67036	4*4 MIMO	48	20	50950	2*2 MIMO	/	/	/	/	/	/	/	/	22.00	21.31	22.50
CA_2A-40C(0)	2	20	64QAM	1	99	100	0	18700	700	4*4 MIMO	48	20	50952	2*2 MIMO	46	20	50890	2*2 MIMO	/	/	/	/	22.91	21.52	23.00
CA_40C-66A(0)	66	20	16QAM	1	99	100	0	132572	67036	4*4 MIMO	48	20	50952	2*2 MIMO	46	20	50890	2*2 MIMO	/	/	/	/	22.00	20.83	22.50
CA_2A-40D(0)	2	20	64QAM	1	99	100	0	18700	700	4*4 MIMO	48	20	50452	2*2 MIMO	46	20	50950	2*2 MIMO	46	20	50888	2*2 MIMO	22.81	21.53	23.00
CA_40D-66A(0)	66	20	16QAM	1	99	100	0	132572	67036	4*4 MIMO	48	20	50452	2*2 MIMO	46	20	50950	2*2 MIMO	46	20	50888	2*2 MIMO	22.00	21.03	22.50
CA_2A-29A-30A(0)	2	20	64QAM	1	99	100	0	18700	700	4*4 MIMO	29	10	9715	2*2 MIMO	30	10	9820	4*4 MIMO	/	/	/	/	22.91	22.33	23.00
	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	2	20	900	4*4 MIMO	29	10	9715	2*2 MIMO	/	/	/	/	22.70	22.26	24.00
CA_29A-30A-66A(0)	66	20	16QAM	1	99	100	0	132572	67036	4*4 MIMO	29	10	9715	2*2 MIMO	30	10	9820	4*4 MIMO	/	/	/	/	22.00	22.05	24.00
	66	20	16QAM	1	99	100	0	132572	67036	4*4 MIMO	29	10	9715	2*2 MIMO	30	10	9820	4*4 MIMO	/	/	/	/	22.00	20.61	22.50
CA_2A-12A-66A-66A(0)	2	20	64QAM	1	99	100	0	18700	700	4*4 MIMO	12	10	5095	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	67236	4*4 MIMO	22.81	22.06	23.00
	66	20	16QAM	1	99	100	0	132572	67036	2*2 MIMO	66	20	66536	4*4 MIMO	2	20	900	4*4 MIMO	12	10	5095	2*2 MIMO	22.00	20.81	22.50
CA_12A-30A-66A-66A	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	12	10	5095	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	67236	2*2 MIMO	22.70	22.42	24.00
	66	20	16QAM	1	99	100	0	132572	67036	2*2 MIMO	66	20	66536	2*2 MIMO	12	10	5095	2*2 MIMO	30	10	9820	4*4 MIMO	22.00	20.16	22.50
CA_2A-2A-5A-30A	2	20	64QAM	1	99	100	0	18700	700	2*2 MIMO	2	20	1100	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	22.81	22.06	23.00
	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	2	20	1100	2*2 MIMO	2	20	700	2*2 MIMO	30	10	9820	4*4 MIMO	24.50	23.88	25.00
	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	2	20	1100	2*2 MIMO	5	10	2525	2*2 MIMO	5	10	2525	2*2 MIMO	22.70	22.33	24.00
CA_2A-3A-13A-66A(0)	2	20	64QAM	1	99	100	0	18700	700	2*2 MIMO	2	20	1100	2*2 MIMO	12	10	5095	2*2 MIMO	66	20	66536	4*4 MIMO	22.91	22.46	23.00
	66	20	QPSK	1	99	100	0	132572	67036	4*4 MIMO	2	20	1100	2*2 MIMO	2	20	700	2*2 MIMO	12	10	5095	2*2 MIMO	22.00	20.76	22.50
CA_2A-66A	2	20	64QAM	1	99	100	0	18700	700	4*4 MIMO	5	10	2450	2*2 MIMO	5	10	2549	2*2 MIMO	30	10	9820	2*2 MIMO	22.91	22.53	23.00
	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	5	10	2450	2*2 MIMO	30	10	9820	4*4 MIMO	2	20	900	2*2 MIMO	24.50	23.92	25.00
CA_2A-6B-66A(0)	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	2	20	900	2*2 MIMO	5	10	2450	2*2 MIMO	5	10	2549	2*2 MIMO	22.70	22.13	24.00
	2	20	64QAM	1	99	100	0	18700	700	4*4 MIMO	5	10	2450	2*2 MIMO	5	10	2549	2*2 MIMO	66	20	66536	2*2 MIMO	22.81	22.57	23.00
	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	5	10	2450	4*4 MIMO	2	20	900	2*2 MIMO	66	20	66536	2*2 MIMO	24.50	23.67	25.00
	66	20	QPSK	1	99	100	0	132572	67036	4*4 MIMO	2	20	900	2*2 MIMO	5	10	2450	2*2 MIMO	5	10	2549	2*2 MIMO	22.00	21.13	22.50
CA_2A-5A-66A(0)	2	20	64QAM	1	99	100	0	18700	700	2*2 MIMO	2	20	1100	2*2 MIMO	5	10	2525	2*2 MIMO	66	20	66536	4*4 MIMO	22.91	22.43	23.00
	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	5	10	2549	2*2 MIMO	2	20	900	2*2 MIMO	66	20	66536	4*4 MIMO	24.50	23.79	25.00
	66	20	QPSK	1	99	100	0	132572	67036	4*4 MIMO	2	20	1100	2*2 MIMO	5	10	2525	2*2 MIMO	5	10	2525	2*2 MIMO	22.00	21.03	22.50
CA_3A-5A-66A-66A(0)	2	20	64QAM	1	99	100	0	18700	700	4*4 MIMO	5	10	2525	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	67236	2*2 MIMO	22.91	22.49	23.00
	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	2	20	900	4*4 MIMO	66	20	66536	2*2 MIMO	66	20	67236	2*2 MIMO	24.50	24.03	25.00
	66	20	QPSK	1	99	100	0	132572	67036	2*2 MIMO	66	20	66536	2*2 MIMO	5	10	2525	2*2 MIMO	2	20	900	4*4 MIMO	22.00	20.88	22.50
CA_3A-3A-6A-66A(0)	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	30	10	9820	4*4 MIMO	66	20	66536	2*2 MIMO	66	20	67236	2*2 MIMO	24.50	23.96	25.00
	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	5	10	2525	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	67236	2*2 MIMO	22.70	22.19	24.00
	66	20	QPSK	1	99	100	0	132572	67036	2*2 MIMO	66	20	66536	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	22.00	20.96	22.50
CA_6B-30A-66A(0)	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	5	10	2549	2*2 MIMO	30	10	9820	4*4 MIMO	66	20	66536	2*2 MIMO	24.50	23.84	25.00
	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	5	10	2450	2*2 MIMO	5	10	2549	2*2 MIMO	66	20	66536	2*2 MIMO	22.70	22.24	24.00
	66	20	QPSK	1	99	100	0	132572	67036	4*4 MIMO	5	10	2450	2*2 MIMO	5	10	2549	2*2 MIMO	30	10	9820	2*2 MIMO	22.00	21.01	22.50
CA_2A-2A-12A-30A(0)	2	20	64QAM	1	99	100	0	18700	700	2*2 MIMO	2	20	1100	2*2 MIMO	12	10	5095	2*2 MIMO	30	10	9820	4*4 MIMO	22.91	22.31	23.00
	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	2	20	1100	2*2 MIMO	2	20	700	2*2 MIMO	12	10	5095	2*2 MIMO	22.70	22.30	24.00
CA_2A-12A-30A-66A(0)	2	20	64QAM	1	99	100	0	18700	700	4*4 MIMO	12	10	5095	2*2 MIMO	30	10	9820	2*2 MIMO	66	20	66536	2*2 MIMO	22.91	22.52	23.00
	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	2	20	900	2*2 MIMO	12	10	5095	2*2 MIMO	66	20	66536	2*2 MIMO	22.70	22.27	24.00
	66	20	QPSK	1	99	100	0	132572	67036	4*4 MIMO	30	10	9820	2*2 MIMO	2	20	900	2*2 MIMO	12	10	5095	2*2 MIMO	22.00	21.02	22.50
CA_2A-3A-30A-66A(0)	2	20	64QAM	1	99	100	0	18700	700	4*4 MIMO	5	10	2525	2*2 MIMO	30	10	9820	2*2 MIMO	66	20	66536	2*2 MIMO	22.91	22.41	23.00
	5	10	QPSK	1	0	100	0	20450	2450	2*2 MIMO	30	10	9820	4*4 MIMO	66	20	66536	2*2 MIMO	2	20	900	2*2 MIMO	24.50	23.73	25.00
	30	10	QPSK	1	25	50	0	27710	9820	4*4 MIMO	66	20	66536	2*2 MIMO	2	20	900	2*2 MIMO	5	10	2525	2*2 MIMO	22.70	22.19	24.00
	66	20	QPSK	1	99	100	0	132572	67036	4*4 MIMO	2	20	900	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	2*2 MIMO	22.00	20.96	22.50

Table 154:Conducted power measurement results of LTE DL 4x4 MIMO with carrier aggregation for main antenna (hotspot off+SAR sensor on)

DL LTE CA Class	PCC										SCC1				SCC2				SCC3				Power		
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC UL RB size	PCC UL RB offset	PCC UL Channel 1	PCC UL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC UL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC UL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC UL Channel	DL Antenna Configuration	Rel 8 LTE Tx Power (dBm)	DL LTE Tx Power (dBm)	Tune-up
CA_2A-46A(0)	2	20	16QAM	1	99	100	0	19100	1100	4*4 MIMO	46	20	50890	2*2 MIMO	/	/	/	/	/	/	/	/	21.17	20.70	21.60
CA_46A-66A(0)	6	20	16QAM	1	99	100	0	19100	68788	4*4 MIMO	46	20	50890	2*2 MIMO	/	/	/	/	/	/	/	/	22.24	21.20	22.50
CA_2A-46C(0)	2	20	16QAM	1	99	100	0	19100	1100	4*4 MIMO	46	20	50892	2*2 MIMO	46	20	50890	2*2 MIMO	/	/	/	/	21.17	20.24	21.50
CA_46C-66A(0)	6	20	16QAM	1	99	100	0	19100	68788	4*4 MIMO	46	20	50892	2*2 MIMO	46	20	50890	2*2 MIMO	/	/	/	/	22.24	22.11	22.50
CA_2A-42D(0)	2	20	16QAM	1	99	100	0	19100	1100	4*4 MIMO	46	20	50492	2*2 MIMO	46	20	50590	2*2 MIMO	46	20	50888	2*2 MIMO	21.17	20.11	21.50
CA_46D-66A(0)	6	20	16QAM	1	99	100	0	19100	68788	4*4 MIMO	46	20	50492	2*2 MIMO	46	20	50590	2*2 MIMO	46	20	50888	2*2 MIMO	22.24	22.10	22.50
CA_2A-29A-30A(0)	2	20	16QAM	1	99	100	0	19100	1100	4*4 MIMO	29	10	8710	2*2 MIMO	30	10	8820	2*2 MIMO	/	/	/	/	21.17	20.10	21.50
CA_29A-30A-66A(0)	30	10	QPSK	1	25	50	0	27710	8820	4*4 MIMO	2	20	800	4*4 MIMO	2	20	8715	2*2 MIMO	/	/	/	/	21.33	21.06	21.50
CA_29A-30A-66A(0)	30	10	QPSK	1	25	50	0	27710	8820	4*4 MIMO	29	10	8715	2*2 MIMO	66	20	68888	4*4 MIMO	/	/	/	/	21.33	21.08	21.50
CA_2A-12A-66A-66A(0)	6	20	16QAM	1	99	100	0	19100	1100	4*4 MIMO	29	10	8715	2*2 MIMO	12	10	8820	4*4 MIMO	/	/	/	/	22.24	22.11	22.50
CA_2A-12A-66A-66A(0)	6	20	16QAM	1	99	100	0	19100	68788	4*4 MIMO	29	10	8715	2*2 MIMO	66	20	68888	4*4 MIMO	66	20	67236	4*4 MIMO	21.17	20.10	21.50
CA_12A-30A-66A-66A	30	10	QPSK	1	25	50	0	27710	8820	4*4 MIMO	12	10	5095	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	67236	2*2 MIMO	21.33	21.05	21.50
CA_12A-30A-66A-66A	66	20	16QAM	1	99	100	0	19100	1100	4*4 MIMO	66	20	67236	4*4 MIMO	12	10	5095	2*2 MIMO	66	20	8820	4*4 MIMO	22.24	22.12	22.50
CA_2A-2A-5A-30A	2	20	16QAM	1	99	100	0	19100	1100	2*2 MIMO	2	20	700	2*2 MIMO	2	20	2501	2*2 MIMO	30	10	8820	2*2 MIMO	21.17	20.10	21.50
CA_2A-2A-5A-30A	5	5	QPSK	1	0	25	0	20425	2425	2*2 MIMO	2	20	700	2*2 MIMO	2	20	1100	2*2 MIMO	30	10	8820	4*4 MIMO	24.17	23.57	24.50
CA_2A-2A-5A-30A	30	10	QPSK	1	25	50	0	27710	8820	4*4 MIMO	2	20	700	2*2 MIMO	2	20	1100	2*2 MIMO	5	10	2525	2*2 MIMO	21.33	20.88	21.50
CA_2A-2A-12A-66A(0)	2	20	16QAM	1	99	100	0	19100	1100	2*2 MIMO	2	20	700	2*2 MIMO	12	10	5095	2*2 MIMO	66	20	68888	4*4 MIMO	21.17	20.45	21.50
CA_2A-2A-12A-66A(0)	66	20	16QAM	1	99	100	0	19100	68788	4*4 MIMO	2	20	700	2*2 MIMO	2	20	1100	2*2 MIMO	12	10	5095	2*2 MIMO	22.24	22.13	22.50
CA_2A-46-30A(0)	2	20	16QAM	1	99	100	0	19100	1100	4*4 MIMO	5	10	2600	2*2 MIMO	5	10	2501	2*2 MIMO	30	10	8820	2*2 MIMO	21.17	20.10	21.50
CA_2A-46-30A(0)	5	5	QPSK	1	0	25	0	20425	2425	2*2 MIMO	5	10	2464	2*2 MIMO	30	10	8820	4*4 MIMO	2	20	700	2*2 MIMO	24.17	23.61	24.50
CA_2A-46-30A(0)	30	10	QPSK	1	25	50	0	27710	8820	4*4 MIMO	2	20	700	2*2 MIMO	5	10	2600	2*2 MIMO	5	10	2501	2*2 MIMO	21.33	20.91	21.50
CA_2A-46-66A(0)	2	20	16QAM	1	99	100	0	19100	1100	4*4 MIMO	5	10	2600	2*2 MIMO	5	10	2501	2*2 MIMO	66	20	66536	2*2 MIMO	21.17	20.26	21.50
CA_2A-46-66A(0)	5	5	QPSK	1	0	25	0	20425	2425	2*2 MIMO	5	10	2464	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	66536	2*2 MIMO	24.17	23.61	24.50
CA_2A-46-66A(0)	66	20	16QAM	1	99	100	0	19100	68788	4*4 MIMO	5	10	2600	2*2 MIMO	5	10	2501	2*2 MIMO	5	10	2501	2*2 MIMO	22.24	22.05	22.50
CA_3A-2A-5A-66A(0)	2	20	16QAM	1	99	100	0	19100	1100	2*2 MIMO	2	20	700	2*2 MIMO	5	10	2525	2*2 MIMO	66	20	68888	4*4 MIMO	21.17	20.35	21.50
CA_3A-2A-5A-66A(0)	5	5	QPSK	1	0	25	0	20425	2425	2*2 MIMO	2	20	700	2*2 MIMO	66	20	68888	4*4 MIMO	24.17	23.86	24.50				
CA_3A-2A-5A-66A(0)	66	20	16QAM	1	99	100	0	19100	68788	4*4 MIMO	2	20	700	2*2 MIMO	66	20	68888	4*4 MIMO	66	20	67236	2*2 MIMO	22.24	22.13	22.50
CA_2A-5A-66A-66A(0)	2	20	16QAM	1	99	100	0	19100	1100	4*4 MIMO	5	10	2525	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	67236	2*2 MIMO	21.17	20.43	21.50
CA_2A-5A-66A-66A(0)	5	5	QPSK	1	0	25	0	20425	2425	2*2 MIMO	2	20	700	4*4 MIMO	66	20	66536	2*2 MIMO	66	20	67236	2*2 MIMO	24.17	23.68	24.50
CA_2A-5A-66A-66A(0)	66	20	16QAM	1	99	100	0	19100	68788	2*2 MIMO	66	20	67236	2*2 MIMO	5	10	2525	2*2 MIMO	2	20	900	4*4 MIMO	22.24	22.34	22.50
CA_5A-30A-66A-66A(0)	5	5	QPSK	1	0	25	0	20425	2425	2*2 MIMO	30	10	8820	4*4 MIMO	66	20	66536	2*2 MIMO	66	20	67236	2*2 MIMO	24.17	23.49	24.50
CA_5A-30A-66A-66A(0)	37710	10	QPSK	1	25	50	0	27710	8820	4*4 MIMO	5	10	68888	2*2 MIMO	66	20	67236	2*2 MIMO	66	20	67236	2*2 MIMO	22.24	22.10	22.50
CA_5A-30A-66A-66A(0)	66	20	16QAM	1	99	100	0	19100	68788	2*2 MIMO	66	20	67236	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	8820	4*4 MIMO	22.24	22.08	22.50
CA_5S-30A-66A(0)	5	5	QPSK	1	0	25	0	20425	2425	2*2 MIMO	5	10	2464	2*2 MIMO	30	10	8820	4*4 MIMO	66	20	68888	2*2 MIMO	24.17	23.22	24.50
CA_5A-30A-66A(0)	30	10	QPSK	1	25	50	0	27710	8820	4*4 MIMO	5	10	2600	2*2 MIMO	5	10	2501	2*2 MIMO	66	20	68888	2*2 MIMO	21.33	20.88	21.50
CA_5A-30A-66A(0)	66	20	16QAM	1	99	100	0	19100	68788	4*4 MIMO	5	10	2600	2*2 MIMO	5	10	2501	2*2 MIMO	66	20	68888	2*2 MIMO	22.24	22.10	22.50
CA_3A-2A-12A-35A(0)	2	20	16QAM	1	99	100	0	19100	1100	2*2 MIMO	2	20	700	2*2 MIMO	12	10	5095	2*2 MIMO	30	10	8820	4*4 MIMO	21.17	20.90	21.50
CA_3A-2A-12A-35A(0)	30	10	QPSK	1	25	50	0	27710	8820	4*4 MIMO	2	20	700	2*2 MIMO	2	20	1100	2*2 MIMO	12	10	5095	2*2 MIMO	21.33	21.06	21.50
CA_3A-2A-12A-35A(0)	2	20	16QAM	1	99	100	0	19100	1100	4*4 MIMO	12	10	5095	2*2 MIMO	2	20	8820	4*4 MIMO	66	20	68888	2*2 MIMO	21.17	20.26	21.50
CA_3A-2A-12A-35A(0)	5	5	QPSK	1	0	25	0	20425	2425	2*2 MIMO	12	10	5095	2*2 MIMO	12	10	5095	2*2 MIMO	66	20	68888	2*2 MIMO	24.17	23.22	24.50
CA_3A-2A-12A-35A(0)	66	20	16QAM	1	99	100	0	19100	68788	4*4 MIMO	30	10	8820	4*4 MIMO	2	20	700	2*2 MIMO	12	10	5095	2*2 MIMO	22.24	22.19	22.50
CA_3A-2A-12A-35A(0)	2	20	16QAM	1	99	100	0	19100	1100	4*4 MIMO	30	10	2525	2*2 MIMO	30	10	8820	4*4 MIMO	66	20	68888	2*2 MIMO	21.17	20.55	21.50
CA_3A-5A-30A-66A(0)	5	5	QPSK	1	0	25	0	20425	2425	2*2 MIMO	30	10	8820	4*4 MIMO	66	20	68888	2*2 MIMO	2	20	700	2*2 MIMO	24.17	23.08	24.50
CA_3A-5A-30A-66A(0)	30	10	QPSK	1	25	50	0	27710	8820	4*4 MIMO	66	20	68888	2*2 MIMO	2	20	2525	2*2 MIMO	30	10	8820	4*4 MIMO	21.33	20.58	21.50
CA_3A-5A-30A-66A(0)	66	20	16QAM	1	99	100	0	19100	68788	4*4 MIMO	66	20	68888	2*2 MIMO	30	10	700	2*2 MIMO	30	10	8820	4*4 MIMO	22.24	22.26	22.50

Table 155:Conducted power measurement results of LTE DL 4x4 MIMO with carrier aggregation for second antenna (Full Power)

DL LTE CA Class			PCG										SGC1										SGC 2										SGC 3										Power	
PCG Band	PCG Bandwidth (MHz)	Modulation	PCG UL RB size	PCG UL RB offset	PCG DL RB size	PCG DL RB offset	PCG UL Channel	PCG DL Channel	DL Antenna Configuration	SGC Band	SGC Bandwidth (MHz)	SGC Channel	DL Antenna Configuration	SGC Band	SGC Bandwidth (MHz)	SGC DL Channel	DL Antenna Configuration	SGC Band	SGC Bandwidth (MHz)	SGC Channel	DL Antenna Configuration	SGC Band	SGC Bandwidth (MHz)	SGC Channel	DL Antenna Configuration	Rel 8 Tx Power (dBm)	DL LTE CA Tx Power (dBm)	Tune up																
CA_1A-4A(0)	2	20	64QAM	50	0	100	0	19100	1100	4*4 MIMO	46	20	60980	2*2 MIMO	4	20	50580	2*2 MIMO	4	20	50580	2*2 MIMO	4	20	50580	2*2 MIMO	4	20	50580	2*2 MIMO	20.27	18.75	20.50											
	66	20	64QAM	50	0	100	0	132322	66788	4*4 MIMO	46	20	50580	2*2 MIMO	4	20	50580	2*2 MIMO	4	20	50580	2*2 MIMO	4	20	50580	2*2 MIMO	4	20	50580	2*2 MIMO	20.47	18.75	20.50											
	CA_1A-4A(0A)	66	20	64QAM	50	0	100	0	19100	1100	4*4 MIMO	46	20	60980	2*2 MIMO	4	20	50580	2*2 MIMO	4	20	50580	2*2 MIMO	4	20	50580	2*2 MIMO	4	20	50580	2*2 MIMO	20.27	19.74	20.50										
	CA_2A-4A(0A)	66	20	64QAM	50	0	100	0	132322	66788	4*4 MIMO	46	20	50580	2*2 MIMO	4	20	50580	2*2 MIMO	4	20	50580	2*2 MIMO	4	20	50580	2*2 MIMO	4	20	50580	2*2 MIMO	20.47	19.74	20.50										
	CA_3A-5A(0)	2	20	64QAM	50	0	100	0	18100	1100	4*4 MIMO	46	20	50492	2*2 MIMO	4	20	50492	2*2 MIMO	4	20	50492	2*2 MIMO	4	20	50492	2*2 MIMO	4	20	50492	2*2 MIMO	20.47	18.96	20.50										
	CA_4A-5A(0A)	66	20	64QAM	50	0	100	0	132322	66788	4*4 MIMO	46	20	50492	2*2 MIMO	4	20	50492	2*2 MIMO	4	20	50492	2*2 MIMO	4	20	50492	2*2 MIMO	4	20	50492	2*2 MIMO	20.47	18.96	20.50										
CA_2A-2A-3A(0A)	2	20	64QAM	50	0	100	0	19100	1100	4*4 MIMO	28	10	8718	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.27	18.20	20.50											
	66	20	QPSK	1	25	60	0	27710	8620	4*4 MIMO	28	10	8718	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.47	18.20	20.50											
	CA_2A-2A-3A(0A)	66	20	64QAM	50	0	100	0	19100	1100	4*4 MIMO	28	10	8718	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.27	18.20	20.50										
	CA_3A-3A(0A)	66	20	64QAM	50	0	100	0	132322	66788	4*4 MIMO	28	10	8718	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.47	18.20	20.50										
	CA_2A-3A-6A(0A)	2	20	QPSK	1	25	60	0	27710	8620	4*4 MIMO	28	10	8718	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.27	18.20	20.50										
	CA_3A-3A-6A(0A)	66	20	QPSK	1	25	60	0	27710	8620	4*4 MIMO	28	10	8718	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.47	18.20	20.50										
CA_2A-12A-66A(0A)	2	20	64QAM	50	0	100	0	19100	1100	4*4 MIMO	12	10	8098	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.27	18.20	20.50											
	66	20	QPSK	1	25	60	0	27710	8620	4*4 MIMO	12	10	8098	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.47	18.20	20.50											
	CA_2A-12A-66A(0A)	66	20	64QAM	50	0	100	0	132322	66788	4*4 MIMO	12	10	8098	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.27	18.20	20.50										
	CA_1A-12A-66A(0A)	66	20	64QAM	50	0	100	0	19100	1100	4*4 MIMO	12	10	8098	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.47	18.20	20.50										
	CA_2A-2A-6A(0A)	2	20	QPSK	1	25	60	0	27710	8620	4*4 MIMO	12	10	8098	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.27	18.20	20.50										
	CA_3A-3A-6A(0A)	66	20	QPSK	1	25	60	0	27710	8620	4*4 MIMO	12	10	8098	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.47	18.20	20.50										
CA_2A-2A-6A(0A)	2	20	64QAM	50	0	100	0	19100	1100	4*4 MIMO	12	10	8098	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.27	18.20	20.50											
	66	20	QPSK	1	25	60	0	27710	8620	4*4 MIMO	12	10	8098	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.47	18.20	20.50											
	CA_2A-2A-6A(0A)	66	20	64QAM	50	0	100	0	132322	66788	4*4 MIMO	12	10	8098	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.27	18.20	20.50										
	CA_1A-2A-6A(0A)	66	20	64QAM	50	0	100	0	19100	1100	4*4 MIMO	12	10	8098	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.47	18.20	20.50										
	CA_2A-2A-6A(0A)	66	20	64QAM	50	0	100	0	132322	66788	4*4 MIMO	12	10	8098	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.27	18.20	20.50										
	CA_3A-3A-6A(0A)	66	20	QPSK	1	25	60	0	27710	8620	4*4 MIMO	12	10	8098	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.47	18.20	20.50										
CA_2A-6A-30A(0A)	2	20	64QAM	50	0	100	0	19100	1100	4*4 MIMO	6	10	2448	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.27	18.20	20.50											
	66	20	QPSK	1	25	60	0	27710	8620	4*4 MIMO	6	10	2448	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.47	18.20	20.50											
	CA_2A-6A-30A(0A)	66	20	64QAM	50	0	100	0	132322	66788	4*4 MIMO	6	10	2448	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.27	18.20	20.50										
	CA_1A-6A-30A(0A)	66	20	64QAM	50	0	100	0	19100	1100	4*4 MIMO	6	10	2448	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.47	18.20	20.50										
	CA_2A-6A-30A(0A)	66	20	64QAM	50	0	100	0	132322	66788	4*4 MIMO	6	10	2448	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.27	18.20	20.50										
	CA_3A-3A-30A(0A)	66	20	QPSK	1	25	60	0	27710	8620	4*4 MIMO	6	10	2448	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	30	10	8720	2*2 MIMO	20.47	18.20	20.50										
CA_2A-6A-0A(0A)	2	20	64QAM	50	0	100	0	19100	1100	4*4 MIMO	5	10	2450	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	20.27	19.25	20.50											
	66	20	QPSK	1	25	60	0	27710	8620	4*4 MIMO	5	10	2450	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	20.47	19.25	20.50											
	CA_2A-6A-0A(0A)	66	20	64QAM	50	0	100	0	132322	66788	4*4 MIMO	5	10	2450	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	20.27	19.25	20.50										
	CA_1A-6A-0A(0A)	66	20	64QAM	50	0	100	0	19100	1100	4*4 MIMO	5	10	2450	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	20.47	19.25	20.50										
	CA_2A-6A-0A(0A)	66	20	64QAM	50	0	100	0	132322	66788	4*4 MIMO	5	10	2450	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	20.27	19.25	20.50										
	CA_3A-3A-0A(0A)	66	20	QPSK	1	25	60	0	27710	8620	4*4 MIMO	5	10	2450	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	20.47	19.25	20.50										
CA_2A-12A-66A(0A)	2	20	64QAM	50	0	100	0	19100	1100	4*4 MIMO	5	10	2450	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	20.27	19.25	20.50											
	66	20	QPSK	1	25	60	0	27710	8620	4*4 MIMO	5	10	2450	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	20.47	19.25	20.50											
	CA_2A-12A-66A(0A)	66	20	64QAM	50	0	100	0	132322	66788	4*4 MIMO	5	10	2450	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	20.27	19.25	20.50										
	CA_1A-12A-66A(0A)	66	20	64QAM	50	0	100	0	19100	1100	4*4 MIMO	5	10	2450	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	20.47	19.25	20.50										
	CA_2A-12A-66A(0A)	66	20	64QAM	50	0	100	0	132322	66788	4*4 MIMO	5	10	2450	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	66	20	66638	2*2 MIMO	20.27												

Table 156:Conducted power measurement results of LTE DL 4x4 MIMO with carrier aggregation for second antenna (receiver on ,Left head)

DL LTE CA Class	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC				SCC1				SCC2				SCC3				Power					
				PCC UL RI size	PCC UL RI offset	PCC DL RI size	PCC DL RI offset	PCC UL Channel	PCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	DL Antenna Configuration	PAE 1x LTE Power (dBm)	DL LTE CA Tx Power	Time-up
CA_2A-4A(0)	2	20	64QAM	1	0	100	0	10100	900	4*4 MIMO	46	20	50600	2*2 MIMO	4	10	50600	2*2 MIMO	4	10	50600	2*2 MIMO	17.75	15.75	17.00
CA_2A-5A(0)	66	20	64QAM	1	0	100	0	13072	6730	4*4 MIMO	46	20	50590	2*2 MIMO	4	10	50590	2*2 MIMO	4	10	50590	2*2 MIMO	17.75	17.00	17.00
CA_2A-4C(0)	2	20	64QAM	1	0	100	0	18100	900	4*4 MIMO	46	20	50680	2*2 MIMO	46	20	50680	2*2 MIMO	46	20	50680	2*2 MIMO	16.75	14.75	17.00
CA_4C(0)CA_5A(0)	66	20	64QAM	1	0	100	0	13072	6730	4*4 MIMO	46	20	50590	2*2 MIMO	46	20	50590	2*2 MIMO	46	20	50590	2*2 MIMO	17.75	17.00	17.00
CA_2A-4E(0)	2	20	64QAM	1	0	100	0	18100	900	4*4 MIMO	46	20	50182	2*2 MIMO	46	20	50590	2*2 MIMO	46	20	50590	2*2 MIMO	16.75	16.25	17.00
CA_2A-6E(0)	66	20	64QAM	1	0	100	0	13072	6730	4*4 MIMO	46	20	50482	2*2 MIMO	46	20	50590	2*2 MIMO	46	20	50590	2*2 MIMO	17.00	16.50	17.00
CA_2A-3A-30A(0)	2	20	64QAM	1	0	100	0	18100	900	4*4 MIMO	29	10	8718	2*2 MIMO	30	10	8718	2*2 MIMO	30	10	8718	2*2 MIMO	16.25	16.25	16.25
	2	20	16QAM	1	38	50	0	27719	9520	2*2 MIMO	29	50	9000	4*4 MIMO	29	10	9715	2*2 MIMO	29	10	9715	2*2 MIMO	16.13	15.91	16.50
CA_2BA-3A-66A(0)	30	10	16QAM	1	25	60	0	27719	9520	4*4 MIMO	29	10	8715	2*2 MIMO	29	20	66536	4*4 MIMO	29	20	66536	4*4 MIMO	16.13	16.25	16.50
	30	10	64QAM	1	0	100	0	13072	6730	4*4 MIMO	66	20	50590	2*2 MIMO	66	20	50590	2*2 MIMO	66	20	50590	2*2 MIMO	17.75	17.00	17.00
	2	20	64QAM	1	0	100	0	18100	900	4*4 MIMO	12	10	8085	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	66536	2*2 MIMO	16.75	16.25	17.00
CA_2A-12A-66A-66A(0)	66	20	64QAM	1	0	100	0	13072	6730	2*2 MIMO	66	20	67235	4*4 MIMO	2	20	500	4*4 MIMO	12	10	5095	2*2 MIMO	17.00	16.50	17.50
	30	10	16QAM	1	25	60	0	27719	9520	4*4 MIMO	29	10	8695	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	66536	2*2 MIMO	16.13	16.25	16.50
	30	10	64QAM	1	0	100	0	13072	6730	4*4 MIMO	66	20	67235	4*4 MIMO	12	10	5095	2*2 MIMO	66	20	66536	2*2 MIMO	17.00	16.50	17.50
CA_2A-2A-6A-30A	2	20	64QAM	1	0	100	0	18100	900	2*2 MIMO	2	20	700	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
	2	20	16QAM	1	49	50	0	20450	2450	2*2 MIMO	2	20	1100	2*2 MIMO	2	20	700	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
	30	10	16QAM	1	49	50	0	20450	2450	2*2 MIMO	2	20	1100	2*2 MIMO	2	20	700	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
CA_2A-12A-66A(0)	66	20	64QAM	1	0	100	0	18100	900	2*2 MIMO	2	20	700	2*2 MIMO	13	10	8084	2*2 MIMO	66	20	66536	4*4 MIMO	16.75	16.00	17.00
	66	20	64QAM	1	0	100	0	13072	6730	4*4 MIMO	2	20	1100	2*2 MIMO	12	10	5095	2*2 MIMO	12	10	5095	2*2 MIMO	17.00	16.50	17.00
	66	20	64QAM	1	0	100	0	18100	900	2*2 MIMO	2	20	700	2*2 MIMO	13	10	8084	2*2 MIMO	66	20	66536	4*4 MIMO	16.75	16.00	17.00
	66	20	64QAM	1	0	100	0	13072	6730	4*4 MIMO	2	20	1100	2*2 MIMO	12	10	5095	2*2 MIMO	12	10	5095	2*2 MIMO	17.00	16.50	17.00
	66	20	64QAM	1	0	100	0	18100	900	2*2 MIMO	2	20	700	2*2 MIMO	13	10	8084	2*2 MIMO	66	20	66536	4*4 MIMO	16.75	16.00	17.00
CA_2A-6A-30A	2	20	64QAM	1	0	100	0	18100	900	2*2 MIMO	2	20	700	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
	2	20	16QAM	1	49	50	0	20450	2450	2*2 MIMO	2	20	1100	2*2 MIMO	2	20	700	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
	30	10	16QAM	1	49	50	0	20450	2450	2*2 MIMO	2	20	1100	2*2 MIMO	2	20	700	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
CA_2A-12A-66A(0)	66	20	64QAM	1	0	100	0	13072	6730	4*4 MIMO	2	20	1100	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
	66	20	64QAM	1	0	100	0	18100	900	2*2 MIMO	2	20	700	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
CA_2A-6A-30A	2	20	64QAM	1	0	100	0	18100	900	2*2 MIMO	2	20	700	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
	2	20	16QAM	1	49	50	0	20450	2450	2*2 MIMO	2	20	1100	2*2 MIMO	2	20	700	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
	30	10	16QAM	1	49	50	0	20450	2450	2*2 MIMO	2	20	1100	2*2 MIMO	2	20	700	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
CA_2A-12A-66A(0)	66	20	64QAM	1	0	100	0	13072	6730	4*4 MIMO	2	20	1100	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
	66	20	64QAM	1	0	100	0	18100	900	2*2 MIMO	2	20	700	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
CA_2B-3A-66A(0)	30	10	16QAM	1	49	50	0	20450	2450	2*2 MIMO	5	10	2549	2*2 MIMO	30	10	9820	4*4 MIMO	2	20	900	2*2 MIMO	16.87	16.50	20.00
	30	10	64QAM	1	0	100	0	13072	6730	4*4 MIMO	66	20	66536	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	66536	2*2 MIMO	16.87	16.50	20.00
	66	20	64QAM	1	0	100	0	13072	6730	4*4 MIMO	5	10	2450	2*2 MIMO	30	10	9820	4*4 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
CA_2A-12A-15A-66A(0)	30	10	16QAM	1	49	50	0	20450	2450	2*2 MIMO	2	20	700	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
	30	10	64QAM	1	0	100	0	13072	6730	4*4 MIMO	66	20	66536	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	66536	2*2 MIMO	16.87	16.50	20.00
	66	20	64QAM	1	0	100	0	13072	6730	4*4 MIMO	5	10	2450	2*2 MIMO	30	10	9820	4*4 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
CA_2A-12A-15A-66A(0)	30	10	16QAM	1	49	50	0	20450	2450	2*2 MIMO	2	20	700	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
	30	10	64QAM	1	0	100	0	13072	6730	4*4 MIMO	66	20	66536	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	66536	2*2 MIMO	16.87	16.50	20.00
	66	20	64QAM	1	0	100	0	13072	6730	4*4 MIMO	5	10	2450	2*2 MIMO	30	10	9820	4*4 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
CA_2A-12A-15A-66A(0)	30	10	16QAM	1	49	50	0	20450	2450	2*2 MIMO	2	20	700	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
	30	10	64QAM	1	0	100	0	13072	6730	4*4 MIMO	66	20	66536	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	66536	2*2 MIMO	16.87	16.50	20.00
	66	20	64QAM	1	0	100	0	13072	6730	4*4 MIMO	5	10	2450	2*2 MIMO	30	10	9820	4*4 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
CA_2A-12A-15A-66A(0)	30	10	16QAM	1	49	50	0	20450	2450	2*2 MIMO	2	20	700	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
	30	10	64QAM	1	0	100	0	13072	6730	4*4 MIMO	66	20	66536	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	66536	2*2 MIMO	16.87	16.50	20.00
	66	20	64QAM	1	0	100	0	13072	6730	4*4 MIMO	5	10	2450	2*2 MIMO	30	10	9820	4*4 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
CA_2A-12A-15A-66A(0)	30	10	16QAM	1	49	50	0	20450	2450	2*2 MIMO	2	20	700	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
	30	10	64QAM	1	0	100	0	13072	6730	4*4 MIMO	66	20	66536	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	66536	2*2 MIMO	16.87	16.50	20.00
	66	20	64QAM	1	0	100	0	13072	6730	4*4 MIMO	5	10	2450	2*2 MIMO	30	10	9820	4*4 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
CA_2A-12A-15A-66A(0)	30	10	16QAM	1	49	50	0	20450	2450	2*2 MIMO	2	20	700	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
	30	10	64QAM	1	0	100	0	13072	6730	4*4 MIMO	66	20	66536	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	66536	2*2 MIMO	16.87	16.50	20.00
	66	20	64QAM	1	0	100	0	13072	6730	4*4 MIMO	5	10	2450	2*2 MIMO	30	10	9820	4*4 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
CA_2A-12A-15A-66A(0)	30	10	16QAM	1	49	50	0	20450	2450	2*2 MIMO	2	20	700	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	16.75	16.10	17.00
	30	10	64QAM	1	0	100	0	13072	6730	4*4 MIMO	66	20	66536	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	6653				

Table 157:Conducted power measurement results of LTE DL 4x4 MIMO with carrier aggregation for second antenna (receiver on ,Right head)

DL LTE CA Class	PCC										SCC1		SCC 2				SCC 3				Power				
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL offset	PCC UL Channel	PCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	DL Antenna Configuration	Re18 LTE Tx Power (dBm)	DL LTE Tx Power (dBm)	Tune-up
CA_2A-45A(0)	2	20	64QAM	1	0	100	0	19100	1100	4*4 MIMO	46	20	50890	2*2 MIMO	/	/	/	/	/	/	/	/	18.35	17.84	18.50
	66	20	16QAM	1	0	100	0	132072	66536	4*4 MIMO	46	20	50890	2*2 MIMO	/	/	/	/	/	/	/	/	19.32	17.82	18.50
	2	20	64QAM	1	0	100	0	19100	1100	4*4 MIMO	46	20	50892	2*2 MIMO	46	20	50890	2*2 MIMO	/	/	/	/	18.35	16.72	18.50
	CA_46C-66A(0)	66	20	16QAM	1	50	100	132072	66536	4*4 MIMO	46	20	50892	2*2 MIMO	46	20	50890	2*2 MIMO	/	/	/	/	19.32	17.81	19.50
	2	20	64QAM	1	0	100	0	19100	1100	4*4 MIMO	46	20	50492	2*2 MIMO	46	20	50890	2*2 MIMO	46	20	50888	2*2 MIMO	18.35	16.70	18.50
CA_46D-66A(0)	66	20	16QAM	1	50	100	100	132072	66536	4*4 MIMO	46	20	50492	2*2 MIMO	46	20	50890	2*2 MIMO	46	20	50888	2*2 MIMO	19.32	17.85	19.50
	2	20	64QAM	1	0	100	0	19100	1100	4*4 MIMO	29	10	9715	2*2 MIMO	30	10	9820	4*4 MIMO	/	/	/	/	18.35	16.16	18.50
	30	10	QPSK	1	49	50	0	27710	8820	4*4 MIMO	2	20	900	2*2 MIMO	29	10	9715	2*2 MIMO	/	/	/	/	18.24	17.06	18.50
	2	20	QPSK	1	49	50	0	27710	8820	4*4 MIMO	29	10	9715	2*2 MIMO	29	10	9715	2*2 MIMO	/	/	/	/	18.24	17.04	18.50
	66	20	16QAM	1	50	100	0	132072	66536	4*4 MIMO	29	10	9715	2*2 MIMO	30	10	9820	4*4 MIMO	/	/	/	/	19.32	17.29	19.50
CA_29A-30A(0)	2	20	64QAM	1	0	100	0	19100	1100	4*4 MIMO	12	10	5095	2*2 MIMO	66	20	66536	2*2 MIMO	30	10	67396	4*4 MIMO	18.35	17.45	18.50
CA_12A-30A-66A-66A(0)	66	20	16QAM	1	50	100	0	132072	66536	2*2 MIMO	66	20	67256	4*4 MIMO	2	20	900	4*4 MIMO	12	10	66956	2*2 MIMO	19.32	18.97	19.50
	2	20	QPSK	1	49	50	0	27710	8820	4*4 MIMO	12	10	5095	2*2 MIMO	66	20	66536	2*2 MIMO	30	10	67396	4*4 MIMO	18.35	17.98	18.50
	66	20	16QAM	1	50	100	0	132072	66536	2*2 MIMO	66	20	67236	4*4 MIMO	12	10	5095	2*2 MIMO	30	10	6820	4*4 MIMO	19.32	17.31	19.50
	5	5	64QAM	1	0	100	0	19100	1100	2*2 MIMO	2	20	902	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	18.35	16.83	18.50
	5	5	64QAM	1	0	100	0	20625	2625	2*2 MIMO	13	20	1100	2*2 MIMO	2	20	1100	2*2 MIMO	66	20	66536	2*2 MIMO	18.35	20.95	21.50
CA_2A-2A-5A-30A	30	10	QPSK	1	49	50	0	27710	8820	4*4 MIMO	2	20	700	2*2 MIMO	2	2	2	2	2	2	2	2	18.24	17.06	18.50
	2	20	64QAM	1	0	100	0	19100	1100	2*2 MIMO	2	20	902	2*2 MIMO	12	10	5095	2*2 MIMO	66	20	66888	4*4 MIMO	18.35	16.79	18.50
	66	20	16QAM	1	50	100	0	132072	66536	4*4 MIMO	2	20	700	2*2 MIMO	2	20	1100	2*2 MIMO	12	10	5095	2*2 MIMO	19.32	17.56	19.50
	2	20	64QAM	1	0	100	0	19100	1100	2*2 MIMO	2	20	902	2*2 MIMO	12	10	5095	2*2 MIMO	12	10	5095	2*2 MIMO	19.32	17.56	19.50
	5	5	64QAM	1	0	100	0	20625	2625	2*2 MIMO	5	10	2525	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	18.35	16.83	18.50
CA_3A-3A-12A-66A(0)	2	20	64QAM	1	0	100	0	19100	1100	4*4 MIMO	2	20	2600	2*2 MIMO	2	20	2600	2*2 MIMO	30	10	9820	4*4 MIMO	18.35	16.83	18.50
CA_3A-3A-66A(0)	30	10	QPSK	1	49	50	0	27710	8820	4*4 MIMO	2	20	700	2*2 MIMO	5	10	2500	2*2 MIMO	5	10	2500	2*2 MIMO	18.35	16.81	18.50
	5	5	64QAM	1	0	100	0	19100	1100	4*4 MIMO	5	10	2500	2*2 MIMO	5	10	2501	2*2 MIMO	66	20	66536	2*2 MIMO	18.35	17.98	18.50
	5	5	64QAM	1	0	100	0	20625	2625	2*2 MIMO	13	20	1100	2*2 MIMO	2	20	1100	2*2 MIMO	66	20	66536	2*2 MIMO	18.35	20.97	21.50
	66	20	16QAM	1	50	100	0	132072	66536	2*2 MIMO	2	20	700	2*2 MIMO	5	10	2500	2*2 MIMO	5	10	2501	2*2 MIMO	19.32	17.86	19.50
	2	20	64QAM	1	0	100	0	19100	1100	2*2 MIMO	2	20	902	2*2 MIMO	5	10	2525	2*2 MIMO	66	20	66888	4*4 MIMO	18.35	16.73	18.50
CA_3A-3A-5A-66A(0)	5	5	64QAM	1	0	100	0	20625	2625	2*2 MIMO	13	20	1100	2*2 MIMO	2	20	1100	2*2 MIMO	66	20	66536	2*2 MIMO	18.35	20.98	21.50
	66	20	16QAM	1	50	100	0	132072	66536	4*4 MIMO	2	20	1100	2*2 MIMO	2	20	1100	2*2 MIMO	5	10	2525	2*2 MIMO	19.32	17.79	19.50
	2	20	64QAM	1	0	100	0	19100	1100	4*4 MIMO	5	10	2525	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	67236	2*2 MIMO	18.35	16.46	18.50
	5	5	64QAM	1	13	25	0	20625	2625	2*2 MIMO	2	20	700	4*4 MIMO	66	20	66536	2*2 MIMO	66	20	67236	2*2 MIMO	19.32	16.49	21.50
	5	5	64QAM	1	13	25	0	20625	2625	2*2 MIMO	2	20	700	4*4 MIMO	66	20	66536	2*2 MIMO	66	20	67236	2*2 MIMO	19.32	16.49	21.50
CA_3A-3A-66A-66A(0)	66	20	16QAM	1	50	100	0	132072	66536	4*4 MIMO	2	20	700	4*4 MIMO	66	20	66536	2*2 MIMO	66	20	67236	2*2 MIMO	19.32	16.49	21.50
	5	5	64QAM	1	13	25	0	20625	2625	2*2 MIMO	30	10	9820	4*4 MIMO	66	20	66536	2*2 MIMO	66	20	67236	2*2 MIMO	19.32	16.49	21.50
	30	10	QPSK	1	49	50	0	27710	8820	4*4 MIMO	5	10	2525	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	67236	2*2 MIMO	18.35	16.76	18.50
	66	20	16QAM	1	50	100	0	132072	66536	2*2 MIMO	66	20	67256	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	19.32	17.78	19.50
	5	5	64QAM	1	13	25	0	20625	2625	2*2 MIMO	5	10	2500	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	67236	2*2 MIMO	19.32	16.78	19.50
CA_3A-3A-66A-66A(0)	66	20	16QAM	1	50	100	0	132072	66536	2*2 MIMO	66	20	67256	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	19.32	17.78	19.50
	5	5	64QAM	1	13	25	0	20625	2625	2*2 MIMO	5	10	2500	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	67236	2*2 MIMO	19.32	16.78	19.50
	30	10	QPSK	1	49	50	0	27710	8820	4*4 MIMO	5	10	2501	2*2 MIMO	66	20	66536	2*2 MIMO	66	20	66888	2*2 MIMO	18.35	16.55	18.50
	66	20	16QAM	1	50	100	0	132072	66536	4*4 MIMO	5	10	2501	2*2 MIMO	30	10	9820	2*2 MIMO	66	20	66888	2*2 MIMO	19.32	16.55	18.50
	2	20	QPSK	1	49	50	0	27710	8820	4*4 MIMO	2	20	900	2*2 MIMO	29	10	9715	2*2 MIMO	/	/	/	/	18.24	17.06	18.50
CA_3A-2A-12A-30A(0)	30	10	QPSK	1	49	50	0	27710	8820	4*4 MIMO	2	20	700	2*2 MIMO	2	20	1100	2*2 MIMO	12	10	5095	2*2 MIMO	18.35	16.83	18.50
	2	20	64QAM	1	0	100	0	19100	1100	4*4 MIMO	12	10	5095	2*2 MIMO	66	20	66536	2*2 MIMO	30	10	67396	4*4 MIMO	18.35	16.86	18.50
	66	20	16QAM	1	50	100	0	132072	66536	2*2 MIMO	66	20	67256	4*4 MIMO	2	20	900	4*4 MIMO	12	10	66956	2*2 MIMO	19.32	18.97	19.50
	2	20	QPSK	1	49	50	0	27710	8820	4*4 MIMO	2	20	700	2*2 MIMO	12	10	5095	2*2 MIMO	66	20	66888	2*2 MIMO	18.35	16.86	18.50
	66	20	16QAM	1	50	100	0	132072	66536	2*2 MIMO	66	20	67236	4*4 MIMO	12	10	5095	2*2 MIMO	30	10	6820	4*4 MIMO	19.32	17.31	19.50
CA_3A-3A-30A-66A(0)	30	10	QPSK	1	49	50	0	27710	8820	4*4 MIMO	2	20	700	2*2 MIMO	2	20	1100	2*2 MIMO	12	10	5095	2*2 MIMO	18.35	16.83	18.50
	2	20	64QAM	1	0	100	0	19100	1100	4*4 MIMO	12	10	5095	2*2 MIMO	66	20	66536	2*2 MIMO	30	10	67396	4*4 MIMO	18.35	16.86	18.50
	66	20	16QAM	1	50	100	0	132072	66536	2*2 MIMO	66	20	67256	4*4 MIMO	2	20	900	4*4 MIMO	12	10	66956	2*2 MIMO	19.32	18.97	19.50
	2	20	QPSK	1	49	50	0	27710	8820	4*4 MIMO	2	20	700	2*2 MIMO	12	10	5095	2*2 MIMO	66	20	66888	2*2 MIMO	18.35	16.86	18.50
	66	20	16QAM	1	50	100	0	132072	66536	2*2 MIMO	66	20	67236	4*4 MIMO	12	10	5095	2*2 MIMO	30	10	6820	4*4 MIMO	19.32	17.31	19.50
CA_3A-3A-30A-66A(0)	30	10	QPSK	1	49	50	0	27710	8820	4*4 MIMO	2	20	700	2*2 MIMO	2	20	1100	2*2 MIMO	12	10	5095	2*2 MIMO	18.35	16.83	18.50
	2	20	64QAM	1	0	100	0	19100	1100	4*4 MIMO	12	10	5095	2*2 MIMO	66	20	66536	2*2 MIMO	30	10	67396	4*4 MIMO	18.35	16.86	18.50
	66	20	16QAM	1	50	100	0	132072	66536	2*2 MIMO	66	20	67256	4*4 MIMO	2	20	900	4*4 MIMO	12	10	66956	2*2 MIMO	19.32	18.97	19.50
	2	20	QPSK	1	49	50	0	27710	8820	4*4 MIMO	2	20	700	2*2 MIMO	12	10	5095	2*2 MIMO	66	20	66888	2*2 MIMO	18.35	16.86	18.50
	66	20	16QAM	1	50	100	0	132072	66536	2*2 MIMO	66	20	67236	4*4 MIMO	12	10									

Table 158:Conducted power measurement results of LTE DL 4x4 MIMO with carrier aggregation for second antenna (receiver off + wifi Simultaneous Transmission)

DL LTE CA Class	PCC										SCC1				SCC 2				SCC 3				Power		
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	DL Antenna Configuration	Rel 8 LTE Tx Power (dBm)	DL LTE CA Tx Power (dBm)	Tune-up
CA_2A-45A(0)	2	20	16QAM	1	0	100	0	18700	700	4*4 MIMO	46	20	50590	2*2 MIMO	/	/	/	/	/	/	/	/	17.30	17.05	17.50
CA_45A-65A(0)	66	20	64QAM	1	0	100	0	132072	67036	4*4 MIMO	46	20	50590	2*2 MIMO	/	/	/	/	/	/	/	/	17.30	17.05	17.50
CA_2A-45C(0)	2	20	16QAM	1	0	100	0	18700	700	4*4 MIMO	46	20	50592	2*2 MIMO	46	20	50590	2*2 MIMO	/	/	/	/	17.28	17.05	17.50
CA_45C-65A(0)	66	20	64QAM	1	0	100	0	132072	67036	4*4 MIMO	46	20	50592	2*2 MIMO	46	20	50590	2*2 MIMO	/	/	/	/	17.30	17.05	17.50
CA_2A-45D(0)	2	20	16QAM	1	0	100	0	18700	700	4*4 MIMO	46	20	50492	2*2 MIMO	46	20	50590	2*2 MIMO	46	20	50588	2*2 MIMO	17.28	16.75	17.50
CA_45D-65A(0)	66	20	64QAM	1	0	100	0	132072	67036	4*4 MIMO	46	20	50492	2*2 MIMO	46	20	50590	2*2 MIMO	46	20	50588	2*2 MIMO	17.30	16.91	17.50
CA_2A-29A-30A(0)	2	20	16QAM	1	0	100	0	18700	700	4*4 MIMO	29	10	9715	2*2 MIMO	30	10	9820	4*4 MIMO	/	/	/	/	17.28	15.24	17.50
CA_29A-30A-65A(0)	30	10	16QAM	1	25	50	0	27710	8820	4*4 MIMO	2	20	900	4*4 MIMO	29	10	9715	2*2 MIMO	/	/	/	/	18.67	17.27	19.00
CA_29A-30A-65A(0)	66	20	64QAM	1	0	100	0	132072	67036	4*4 MIMO	29	10	9715	2*2 MIMO	30	10	9820	4*4 MIMO	/	/	/	/	17.30	15.28	17.50
CA_2A-12A-65A-65A(0)	2	20	16QAM	1	0	100	0	18700	700	4*4 MIMO	12	10	5095	2*2 MIMO	66	20	65336	2*2 MIMO	66	20	67236	4*4 MIMO	17.28	17.28	17.50
CA_12A-30A-65A-65A	66	20	64QAM	1	0	100	0	132072	67036	2*2 MIMO	66	20	67236	4*4 MIMO	2	20	900	4*4 MIMO	12	10	5095	2*2 MIMO	17.30	16.90	17.50
CA_12A-30A-65A-65A	30	10	16QAM	1	25	50	0	27710	8820	4*4 MIMO	12	10	5095	2*2 MIMO	66	20	65336	2*2 MIMO	66	20	67236	4*4 MIMO	18.67	17.10	19.00
CA_12A-30A-65A-65A	66	20	64QAM	1	0	100	0	132072	67036	2*2 MIMO	66	20	67236	4*4 MIMO	12	10	5095	2*2 MIMO	30	10	9820	4*4 MIMO	17.30	16.37	17.50
CA_2A-2A-5A-30A	2	20	16QAM	1	0	100	0	18700	700	2*2 MIMO	2	20	1100	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	17.28	16.65	17.50
CA_2A-2A-5A-30A	5	5	64QAM	1	0	25	0	20425	2525	2*2 MIMO	2	20	700	2*2 MIMO	2	20	1100	2*2 MIMO	30	10	9820	4*4 MIMO	18.68	16.58	18.00
CA_2A-2A-5A-30A	30	10	16QAM	1	25	50	0	27710	8820	4*4 MIMO	2	20	700	2*2 MIMO	2	20	1100	2*2 MIMO	5	10	2525	2*2 MIMO	18.67	17.40	19.00
CA_2A-2A-12A-65A(0)	2	20	16QAM	1	0	100	0	18700	700	2*2 MIMO	2	20	1100	2*2 MIMO	12	10	5095	2*2 MIMO	66	20	65888	4*4 MIMO	17.28	16.62	17.50
CA_2A-2A-12A-65A(0)	66	20	64QAM	1	0	100	0	132072	67036	4*4 MIMO	2	20	700	2*2 MIMO	2	20	1100	2*2 MIMO	12	10	5095	2*2 MIMO	17.30	16.52	17.50
CA_2A-5B-30A(0)	2	20	16QAM	1	0	100	0	18700	700	4*4 MIMO	5	10	2600	2*2 MIMO	5	10	2501	2*2 MIMO	30	10	9820	4*4 MIMO	17.28	16.21	17.50
CA_2A-5B-30A(0)	5	5	64QAM	1	0	100	0	20425	2525	2*2 MIMO	5	3	2588	2*2 MIMO	5	3	2588	2*2 MIMO	5	3	2588	2*2 MIMO	18.67	17.50	19.00
CA_2A-5B-30A(0)	30	10	16QAM	1	25	50	0	27710	8820	4*4 MIMO	5	10	2600	2*2 MIMO	5	10	2501	2*2 MIMO	66	20	65888	4*4 MIMO	17.28	16.21	17.50
CA_2A-5B-65A(0)	2	20	16QAM	1	0	100	0	18700	700	4*4 MIMO	5	10	2600	2*2 MIMO	5	10	2501	2*2 MIMO	66	20	65888	4*4 MIMO	17.28	16.13	17.50
CA_2A-5B-65A(0)	66	20	64QAM	1	0	100	0	132072	67036	2*2 MIMO	5	3	2588	2*2 MIMO	66	20	65336	4*4 MIMO	2	20	700	2*2 MIMO	18.68	16.80	19.00
CA_2A-5B-65A(0)	30	10	16QAM	1	0	100	0	18700	700	4*4 MIMO	5	10	2600	2*2 MIMO	5	10	2501	2*2 MIMO	66	20	65888	4*4 MIMO	17.28	16.13	17.50
CA_2A-5A-65A-65A(0)	2	20	16QAM	1	0	100	0	18700	700	4*4 MIMO	2	20	700	2*2 MIMO	2	20	1100	2*2 MIMO	66	20	65888	4*4 MIMO	17.28	16.06	17.50
CA_2A-5A-65A-65A(0)	5	5	64QAM	1	0	100	0	20425	2525	2*2 MIMO	2	20	700	2*2 MIMO	2	20	1100	2*2 MIMO	66	20	65888	4*4 MIMO	17.30	15.76	18.00
CA_2A-5A-65A-65A(0)	66	20	64QAM	1	0	100	0	132072	67036	4*4 MIMO	2	20	700	2*2 MIMO	2	20	1100	2*2 MIMO	66	20	65888	4*4 MIMO	17.30	16.13	17.50
CA_2A-5A-65A-65A(0)	30	10	16QAM	1	0	100	0	18700	700	4*4 MIMO	5	10	2600	2*2 MIMO	5	10	2501	2*2 MIMO	66	20	65888	4*4 MIMO	17.28	16.06	17.50
CA_2A-5A-65A-65A(0)	66	20	64QAM	1	0	100	0	132072	67036	2*2 MIMO	66	20	67236	2*2 MIMO	5	10	2525	2*2 MIMO	2	20	900	4*4 MIMO	17.30	16.04	17.50
CA_5B-30A-65A(0)	2	20	16QAM	1	0	100	0	18700	700	4*4 MIMO	5	10	2600	2*2 MIMO	5	10	2501	2*2 MIMO	66	20	65888	4*4 MIMO	17.28	16.13	17.50
CA_5B-30A-65A(0)	66	20	64QAM	1	0	100	0	132072	67036	2*2 MIMO	66	20	67236	2*2 MIMO	5	10	2525	2*2 MIMO	66	20	65888	4*4 MIMO	17.30	16.04	17.50
CA_5B-30A-65A(0)	30	10	16QAM	1	25	50	0	27710	8820	4*4 MIMO	5	10	2600	2*2 MIMO	5	10	2501	2*2 MIMO	66	20	65888	4*4 MIMO	18.67	17.09	19.00
CA_2A-12A-30A-65A(0)	2	20	16QAM	1	0	100	0	18700	700	4*4 MIMO	12	10	5095	2*2 MIMO	12	10	5095	2*2 MIMO	66	20	65888	4*4 MIMO	17.28	16.62	17.50
CA_2A-12A-30A-65A(0)	30	10	16QAM	1	25	50	0	27710	8820	4*4 MIMO	12	10	5095	2*2 MIMO	12	10	5095	2*2 MIMO	66	20	65888	4*4 MIMO	17.28	16.62	17.50
CA_2A-12A-30A-65A(0)	66	20	64QAM	1	0	100	0	132072	67036	4*4 MIMO	12	10	5095	2*2 MIMO	12	10	5095	2*2 MIMO	66	20	65888	4*4 MIMO	17.28	16.62	17.50
CA_2A-12A-30A-65A(0)	30	10	16QAM	1	25	50	0	27710	8820	4*4 MIMO	12	10	5095	2*2 MIMO	12	10	5095	2*2 MIMO	66	20	65888	4*4 MIMO	17.28	16.62	17.50
CA_2A-5A-30A-65A(0)	2	20	16QAM	1	0	100	0	18700	700	4*4 MIMO	5	10	2600	2*2 MIMO	5	10	2501	2*2 MIMO	66	20	65888	4*4 MIMO	17.28	16.1	17.50
CA_2A-5A-30A-65A(0)	5	5	64QAM	1	0	100	0	20425	2525	2*2 MIMO	66	20	65888	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	18.68	16.88	19.00
CA_2A-5A-30A-65A(0)	30	10	16QAM	1	25	50	0	27710	8820	4*4 MIMO	5	10	2600	2*2 MIMO	5	10	2501	2*2 MIMO	66	20	65888	4*4 MIMO	17.28	16.1	17.50
CA_2A-5A-30A-65A(0)	66	20	64QAM	1	0	100	0	132072	67036	4*4 MIMO	2	20	700	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	17.30	16.43	17.50

Table 159:Conducted power measurement results of LTE DL 4x4 MIMO with carrier aggregation for second antenna (receiver on ,Left head + wifi Simultaneous Transmission)

DL LTE CA Class	PCC										SCC1				SCC 2				SCC 3				Power		
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	DL Antenna Configuration	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	DL Antenna Configuration	Rel 8 LTE Tx Power (dBm)	DL LTE CA Tx Power (dBm)	Tune-up
CA_2A-45A(0)	2	20	16QAM	50	0	100	0	18700	700	4*4 MIMO	46	20	50590	2*2 MIMO	/	/	/	/	/	/	/	/	13.67	12.46	14.00
CA_45A-65A(0)	66	20	64QAM	1	50	100	0	132072	67036	4*4 MIMO	46	20	50590	2*2 MIMO	/	/	/	/	/	/	/	/	14.18	13.78	14.50
CA_2A-45C(0)	2	20	16QAM	50	0	100	0	18700	700	4*4 MIMO	46	20	50592	2*2 MIMO	46	20	50590	2*2 MIMO	/	/	/	/	13.67	13.15	14.00
CA_45C-65A(0)	66	20	64QAM	1	50	100	0	132072	67036	4*4 MIMO	46	20	50592	2*2 MIMO	46	20	50590	2*2 MIMO	/	/	/	/	14.18	12.58	14.50
CA_2A-45D(0)	2	20	16QAM	50	0	100	0	18700	700	4*4 MIMO	46	20	50492	2*2 MIMO	46	20	50590	2*2 MIMO	46	20	50588	2*2 MIMO	13.67	12.18	14.00
CA_45D-65A(0)	66	20	64QAM	1	50	100	0	132072	67036	4*4 MIMO	46	20	50492	2*2 MIMO	46	20	50590	2*2 MIMO	46	20	50588	2*2 MIMO	14.18	12.69	14.50
CA_2A-29A-30A(0)	2	20	16QAM	50	0	100	0	18700	700	4*4 MIMO	29	10	9715	2*2 MIMO	30	10	9820	4*4 MIMO	/	/	/	/	13.67	12.01	14.00
CA_29A-30A-65A(0)	30	10	16QAM	1	25	50	0	27710	8820	4*4 MIMO	2	20	900	4*4 MIMO	29	10	9715	2*2 MIMO	/	/	/	/	13.21	11.75	13.50
CA_29A-30A-65A(0)	66	20	64QAM	1	50	100	0	27710	8820	4*4 MIMO	2	20	9715	2*2 MIMO	66	20	65888	4*4 MIMO	/	/	/	/	13.21	12.08	13.50
CA_29A-30A-65A(0)	30	10	16QAM	1	50	100	0	132072	67036	4*4 MIMO	29	10	9715	2*2 MIMO	30	10	2355	4*4 MIMO	/	/	/	/	14.18	12.28	14.50
CA_12A-30A-65A-66A(0)	2	20	16QAM	50	0	100	0	18700	700	4*4 MIMO	12	10	5095	2*2 MIMO	66	20	65336	2*2 MIMO	66	20	67236	4*4 MIMO	13.67	13.16	14.00
CA_12A-30A-65A-66A(0)	66	20	64QAM	1	50	100	0	132072	67036	2*2 MIMO	12	10	67236	2*2 MIMO	66	20	65336	2*2 MIMO	66	20	65336	2*2 MIMO	13.67	13.16	14.00
CA_2A-29A-65A-66A(0)	2	20	16QAM	1	25	50	0	27710	8820	4*4 MIMO	66	20	65336	2*2 MIMO	66	20	65336	2*2 MIMO	66	20	67236	2*2 MIMO	13.21	11.56	13.50
CA_2A-29A-65A-66A(0)	66	20	64QAM	1	50	100	0	132072	67036	2*2 MIMO	66	20	67236	2*2 MIMO	12	10	5095	2*2 MIMO	30	10	9820	4*4 MIMO	14.18	12.30	14.50
CA_2A-29A-65A-66A(0)	30	10	16QAM	1	25	50	0	18700	700	2*2 MIMO	2	20	1100	2*2 MIMO	5	10	2525	2*2 MIMO	30	10	9820	4*4 MIMO	13.67	12.54	14.00
CA_2A-29A-65A-66A(0)	66	20	64QAM	1	50	100	0	20425	2425	2*2 MIMO	13	20	2525	2*2 MIMO	70	20	1100	2*2 MIMO	30	10	9820	4*4 MIMO	13.67	12.54	14.00
CA_2A-29A-65A-66A(0)	30	10	16QAM	1	25	50	0	27710	8820	4*4 MIMO	2	20	700	2*2 MIMO	2	20	1100	2*2 MIMO	5	10	2525	2*2 MIMO	13.21	11.25	13.50
CA_2A-29A-65A-66A(0)	66	20	64QAM	1	50	100	0	18700	700	2*2 MIMO	2	20	1100	2*2 MIMO	66	20	68888	4*4 MIMO	13.67	12.62	14.00				
CA_2A-29A-65A-66A(0)	30	10	16QAM	1	50	100	0	132072	67036	4*4 MIMO	2	20	700	2*2 MIMO	2	20	1100	2*2 MIMO	12	10	5095	2*2 MIMO	14.18	13.50	14.50
CA_2A-29A-65A-66A(0)	66	20	64QAM	1	50	100	0	20425	2425	2*2 MIMO	5	3	2464	2*2 MIMO	30	10	2501	2*2 MIMO	2	20	700	2*2 MIMO	16.83	15.96	17.00
CA_2A-29A-65A-66A(0)	30	10	16QAM	1	25	50	0	27710	8820	4*4 MIMO	2	20	700	2*2 MIMO	5	10	2600	2*2 MIMO	5	10	2501	2*2 MIMO	13.21	11.56	13.50
CA_2A-29A-65A-66A(0)	66	20	64QAM	1	50	100	0	18700	700	4*4 MIMO	5	10	2600	2*2 MIMO	66	20	65336	2*2 MIMO	66	20	65336	2*2 MIMO	13.67	12.18	14.00
CA_2A-29A-65A-66A(0)	30	10	16QAM	1	25	50	0	20425	2425	2*2 MIMO	5	3	2464	2*2 MIMO	66	20	65336	2*2 MIMO	66	20	65336	2*2 MIMO	17.12	16.10	17.20
CA_2A-29A-65A-66A(0)	66	20	64QAM	1	50	100	0	132072	67036	4*4 MIMO	2	20	700	2*2 MIMO	5	10	2600	2*2 MIMO	5	10	2501	2*2 MIMO	14.18	12.86	14.50
CA_2A-29A-65A-66A(0)	30	10	16QAM	1	25	50	0	18700	700	2*2 MIMO	2	20	1100	2*2 MIMO	5	10	2525	2*2 MIMO	66	20	68888	4*4 MIMO	13.67	12.62	14.00
CA_2A-29A-65A-66A(0)	66	20	64QAM	1	50	100	0	20425	2425	2*2 MIMO	13	20	2525	2*2 MIMO	70	20	1100	2*2 MIMO	66	20	68888	4*4 MIMO	16.83	15.96	17.00
CA_2A-29A-65A-66A(0)	30	10	16QAM	1	50	100	0	132072	67036	4*4 MIMO	2	20	700	2*2 MIMO	2	20	1100	2*2 MIMO	5	10	2525	2*2 MIMO	14.18	12.91	14.50
CA_2A-29A-65A-66A(0)	66	20	64QAM	1	50	100	0	18700	700	4*4 MIMO	5	10	2525	2*2 MIMO	66	20	65336	2*2 MIMO	66	20	67236	2*2 MIMO	13.67	12.53	14.00
CA_2A-29A-65A-66A(0)	30	10	16QAM	1	25	50	0	20425	2425	2*2 MIMO	2	20	700	4*4 MIMO	66	20	65336	2*2 MIMO	66	20	67236	2*2 MIMO	16.83	16.43	17.00
CA_2A-29A-65A-66A(0)	66	20	64QAM	1	50	100	0	132072	67036	4*4 MIMO	30	10	9820	4*4 MIMO	66	20	65336	2*2 MIMO	66	20	67236	2*2 MIMO	13.67	12.53	14.00
CA_2A-29A-65A-66A(0)	30	10	16QAM	1	25	50	0	20425	2425	2*2 MIMO	30	10	9820	4*4 MIMO	66	20	65336	2*2 MIMO	66	20	67236	2*2 MIMO	16.83	16.11	17.00
CA_2A-29A-65A-66A(0)	66	20	64QAM	1	50	100	0	132072	67036	4*4 MIMO	5	10	2525	2*2 MIMO	66	20	65336	2*2 MIMO	66	20	67236	2*2 MIMO	13.21	11.67	13.50
CA_2A-29A-65A-66A(0)	30	10	16QAM	1	25	50	0	27710	8820	4*4 MIMO	5	10	2600	2*2 MIMO	66	20	68888	4*4 MIMO	66	20	69236	2*2 MIMO	14.18	12.62	14.50
CA_2A-29A-65A-66A(0)	66	20	64QAM	1	50	100	0	20425	2425	2*2 MIMO	5	3	2464	2*2 MIMO	66	20	68888	4*4 MIMO	66	20	69236	2*2 MIMO	17.12	16.30	17.20
CA_2A-29A-65A-66A(0)	30	10	16QAM	1	25	50	0	27710	8820	4*4 MIMO	5	10	2600	2*2 MIMO	5	10	2501	2*2 MIMO	66	20	68888	2*2 MIMO	13.21	11.81	13.50
CA_2A-29A-65A-66A(0)	66	20	64QAM	1	50	100	0	132072	67036	4*4 MIMO	5	10	2500	2*2 MIMO	5	10	2501	2*2 MIMO	30	10	9820	2*2 MIMO	14.18	12.76	14.50
CA_2A-29A-65A-66A(0)	30	10	16QAM	1	25	50	0	18700	700	2*2 MIMO	2	20	1100	2*2 MIMO	12	10	5095	2*2 MIMO	12	10	5095	2*2 MIMO	13.67	12.68	14.00
CA_2A-29A-65A-66A(0)	66	20	64QAM	1	25	50	0	27710	8820	4*4 MIMO	2	20	700	2*2 MIMO	2	20	1100	2*2 MIMO	12	10	5095	2*2 MIMO	13.21	11.69	13.50
CA_2A-29A-65A-66A(0)	30	10	16QAM	50	0	100	0	18700	700	4*4 MIMO	12	10	5095	2*2 MIMO	30	10	9820	2*2 MIMO	66	20	68888	2*2 MIMO	13.67	12.68	14.00
CA_2A-29A-65A-66A(0)	66	20	64QAM	1	25	50	0	27710	8820	4*4 MIMO	2	20	700	2*2 MIMO	12	10	5095	2*2 MIMO	66	20	68888	2*2 MIMO	13.21	11.76	13.50
CA_2A-29A-65A-66A(0)	30	10	16QAM	1	50	100	0	132072	67036	4*4 MIMO	30	10	9820	2*2 MIMO	66	20	68888	2*2 MIMO	12	10	5095	2*2 MIMO	13.67	12.68	14.00
CA_2A-29A-65A-66A(0)	66	20	64QAM	0	100	0	0	18700	700	4*4 MIMO	5	10	2525	2*2 MIMO	30	10	9820	2*2 MIMO	66	20	68888	2*2 MIMO	13.67	13.01	14.00
CA_2A-29A-65A-66A(0)	30	10	16QAM	1	13	25	0	20425	2425	2*2 MIMO	30	10	9820	4*4 MIMO	66	20	68888	2*2 MIMO	2	20	700	2*2 MIMO	16.83	16.12	17.00
CA_2A-29A-65A-66A(0)	66	20	64QAM	1	35	50	0	27710	8820	4*4 MIMO	5	10	2600	2*2 MIMO	66	20	68888	2*2 MIMO	2	20	700	2*2 MIMO	13.21	11.56	13.50
CA_2A-29A-65A-66A(0)	30	10	16QAM	1	50	100	0	132072	67036	4*4 MIMO	2	20	69888	2*2 MIMO	2	20	700	2*2 MIMO	66	20	69236	2*2 MIMO	14.18	13.43	14.50
CA_2A-29A-65A-66A(0)	66	20	64QAM	1	50	100	0	20425	2425	2*2 MIMO	2	20	69888	2*2 MIMO	2	20	700	2*2 MIMO	66	20	69236	2*2 MIMO	16.83	16.13	17.00

7.1.32 Conducted power measurements of WiFi 2.4G

The output power of WiFi antenna is as following:

Mode	Ant	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11b SISO	Ant1	1	2412	rate1	11.5	10.42	No
		6	2437		11.5	11.35	Yes
		11	2462		11.5	11.11	No
	Ant2	1	2412	rate1	19.5	19.12	Yes
		6	2437		19.5	18.65	No
		11	2462		19.5	18.64	No
802.11g SISO	Ant1	1	2412	rate6	11.5	10.24	No
		6	2437		11.5	10.40	No
		11	2462		11.5	10.17	No
	Ant2	1	2412	rate6	16.0	14.69	No
		6	2437		16.0	14.79	No
		11	2462		16.0	14.63	No
802.11n SISO HT20	Ant1	1	2412	mcs0	11.5	10.13	No
		6	2437		11.5	10.35	No
		11	2462		11.5	10.36	No
	Ant2	1	2412	mcs0	14.5	13.27	No
		6	2437		14.5	13.07	No
		11	2462		14.5	13.23	No
Mode	Ant	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11g CCD	Ant1	1	2412	rate6	11.5	10.24	No
		6	2437		11.5	10.40	Yes
		11	2462		11.5	10.17	No
	Ant2	1	2412	rate6	16.0	14.69	No
		6	2437		16.0	14.79	Yes
		11	2462		16.0	14.63	No
	Sum	1	2412	rate6	17.3	16.02	No
		6	2437		17.3	16.14	No
		11	2462		17.3	15.96	No
802.11n MIMO HT20	Ant1	1	2412	mcs0	11.5	10.13	No
		6	2437		11.5	10.35	No
		11	2462		11.5	10.36	No
	Ant2	1	2412	mcs0	14.5	13.27	No
		6	2437		14.5	13.07	No
		11	2462		14.5	13.23	No
	Sum	1	2412	mcs0	16.3	14.99	No
		6	2437		16.3	14.93	No
		11	2462		16.3	15.04	No

Table 161: Conducted power measurement results of WiFi 2.4G(Receiver on)

Mode	Ant	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11b SISO	Ant1	1	2412	rate1	18.5	17.63	No
		6	2437		18.5	17.92	Yes
		11	2462		18.5	17.89	No
	Ant2	1	2412	rate1	18.0	16.91	No
		6	2437		18.0	17.29	Yes
		11	2462		18.0	17.08	No
802.11g SISO	Ant1	1	2412	rate6	16.5	15.62	No
		6	2437		16.5	16.03	No
		11	2462		16.5	15.81	No
	Ant2	1	2412	rate6	16.0	15.64	No
		6	2437		16.0	15.90	No
		11	2462		16.0	15.71	No
802.11n SISO HT20	Ant1	1	2412	mcs0	15.0	14.21	No
		6	2437		15.0	14.00	No
		11	2462		15.0	14.00	No
	Ant2	1	2412	mcs0	14.5	13.28	No
		6	2437		14.5	13.30	No
		11	2462		14.5	13.50	No
Mode	Ant	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11g CDD	Ant1	1	2412	rate6	16.5	15.62	No
		6	2437		16.5	16.03	Yes
		11	2462		16.5	15.81	No
	Ant2	1	2412	rate6	16.0	15.64	No
		6	2437		16.0	15.90	Yes
		11	2462		16.0	15.71	No
	Sum	1	2412	rate6	19.3	18.64	No
		6	2437		19.3	18.98	No
		11	2462		19.3	18.77	No
802.11n MIMO HT20	Ant1	1	2412	mcs0	15.0	14.21	No
		6	2437		15.0	14.00	No
		11	2462		15.0	14.00	No
	Ant2	1	2412	mcs0	14.5	14.21	No
		6	2437		14.5	14.00	No
		11	2462		14.5	14.00	No
	Sum	1	2412	mcs0	17.8	17.22	No
		6	2437		17.8	17.01	No
		11	2462		17.8	17.01	No

Table 162: Conducted power measurement results of WiFi 2.4G(Receiver off)

Note: 1) The Average conducted power of WiFi is measured with RMS detector.

7.1.33 Conducted power measurements of WiFi 5G

The output power of WiFi antenna is as following:

Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11a SISO	Ant1	CH 36	5180	rate6	11.5	10.21	No
		CH 40	5200		11.5	10.02	No
		CH 44	5220		11.5	10.50	No
		CH 48	5240		11.5	10.17	No
		CH 52	5260		11.5	10.87	No
		CH 56	5280		11.5	10.64	No
		CH 60	5300		11.5	10.68	No
		CH 64	5320		11.5	10.72	No
		CH 100	5500		11.5	9.61	No
		CH 104	5520		11.5	9.80	No
		CH 108	5540		11.5	10.04	No
		CH 112	5560		11.5	10.03	No
		CH 116	5580		11.5	10.11	No
		CH 120	5600		11.5	10.08	No
		CH 124	5620		11.5	10.01	No
		CH 128	5640		11.5	9.88	No
		CH 132	5660		11.5	10.22	No
		CH 136	5680		11.5	9.91	No
		CH 140	5700		11.0	10.09	No
		CH 144	5720		11.5	10.58	No
		CH 149	5745		11.5	10.19	No
		CH 153	5765		11.5	9.87	No
		CH 157	5785		11.5	9.89	No
		CH 161	5805		11.5	9.93	No
		CH 165	5825		11.5	9.88	No
	Ant2	CH 36	5180	rate6	8.5	7.39	No
		CH 40	5200		8.5	7.45	No
		CH 44	5220		8.5	7.38	No
		CH 48	5240		8.5	7.24	No
		CH 52	5260		8.5	6.64	No
		CH 56	5280		8.5	7.93	No
		CH 60	5300		8.5	7.98	No
		CH 64	5320		8.5	8.32	No
		CH 100	5500		8.5	8.46	No
		CH 104	5520		8.5	6.98	No
		CH 108	5540		8.5	7.13	No
		CH 112	5560		8.5	7.25	No
		CH 116	5580		8.5	6.78	No
		CH 120	5600		8.5	6.96	No
		CH 124	5620		8.5	7.10	No
		CH 128	5640		8.5	6.71	No
		CH 132	5660		8.5	6.86	No

		CH 136	5680		8.5	7.03	No
		CH 140	5700		8.5	7.25	No
		CH 144	5720		8.5	7.32	No
		CH 149	5745		8.5	7.04	No
		CH 153	5765		8.5	7.13	No
		CH 157	5785		8.5	7.32	No
		CH 161	5805		8.5	7.32	No
		CH 165	5825		8.5	7.14	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11n SISO HT20 (5GHz)	Ant1	CH 36	5180	MCS0	11.5	9.89	No
		CH 40	5200		11.5	10.18	No
		CH 44	5220		11.5	10.11	No
		CH 48	5240		11.5	10.44	No
		CH 52	5260		11.5	10.64	No
		CH 56	5280		11.5	10.43	No
		CH 60	5300		11.5	10.84	No
		CH 64	5320		11.5	10.49	No
		CH 100	5500		11.5	9.73	No
		CH 104	5520		11.5	9.82	No
		CH 108	5540		11.5	9.88	No
		CH 112	5560		11.5	9.75	No
		CH 116	5580		11.5	9.88	No
		CH 120	5600		11.5	10.00	No
		CH 124	5620		11.5	10.16	No
		CH 128	5640		11.5	9.99	No
		CH 132	5660		11.5	9.83	No
		CH 136	5680		11.5	10.02	No
		CH 140	5700		11.0	9.87	No
		CH 144	5720		11.5	10.35	No
		CH 149	5745		11.5	10.30	No
		CH 153	5765		11.5	10.43	No
		CH 157	5785		11.5	9.98	No
		CH 161	5805		11.5	9.98	No
		CH 165	5825		11.5	9.93	No
	Ant2	CH 36	5180	MCS0	8.5	7.44	No
		CH 40	5200		8.5	7.19	No
		CH 44	5220		8.5	7.27	No
		CH 48	5240		8.5	7.26	No
		CH 52	5260		8.5	7.91	No
		CH 56	5280		8.5	7.82	No
		CH 60	5300		8.5	7.69	No
		CH 64	5320		8.5	8.22	No
		CH 100	5500		8.5	7.30	No
		CH 104	5520		8.5	7.46	No

		CH 108	5540		8.5	7.07	No
		CH 112	5560		8.5	7.68	No
		CH 116	5580		8.5	7.18	No
		CH 120	5600		8.5	7.26	No
		CH 124	5620		8.5	7.43	No
		CH 128	5640		8.5	7.42	No
		CH 132	5660		8.5	7.06	No
		CH 136	5680		8.5	7.11	No
		CH 140	5700		8.5	7.46	No
		CH 144	5720		8.5	6.97	No
		CH 149	5745		8.5	7.22	No
		CH 153	5765		8.5	7.51	No
		CH 157	5785		8.5	7.02	No
		CH 161	5805		8.5	7.04	No
		CH 165	5825		8.5	7.21	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11n SISO HT40 (5GHz)	Ant1	CH 38	5190	MCS0	9.0	7.53	No
		CH 46	5230		11.5	10.14	No
		CH 54	5270		11.5	10.39	No
		CH 62	5310		11.0	10.04	No
		CH 102	5510		9.0	7.90	No
		CH 110	5550		11.5	10.69	No
		CH 118	5590		11.5	10.62	No
		CH 126	5630		11.5	11.00	No
		CH 134	5670		11.5	10.88	No
		CH 142	5710		11.5	10.80	No
		CH 151	5755		11.5	10.83	No
		CH 159	5795		11.5	10.83	No
	Ant2	CH 38	5190	MCS0	8.5	7.33	No
		CH 46	5230		8.5	7.27	No
		CH 54	5270		8.5	7.32	No
		CH 62	5310		8.5	7.21	No
		CH 102	5510		8.5	7.96	No
		CH 110	5550		8.5	8.16	No
		CH 118	5590		8.5	7.87	No
		CH 126	5630		8.5	7.68	No
		CH 134	5670		8.5	7.47	No
		CH 142	5710		8.5	7.70	No
		CH 151	5755		8.5	7.77	No
		CH 159	5795		8.5	7.95	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11ac SISO HT20	Ant1	CH 36	5180	MCS0	11.5	10.26	No
		CH 40	5200		11.5	9.98	No

(5GHz)		CH 44	5220		11.5	10.45	No
		CH 48	5240		11.5	10.36	No
		CH 52	5260		11.5	10.70	No
		CH 56	5280		11.5	10.46	No
		CH 60	5300		11.5	10.38	No
		CH 64	5320		11.5	10.54	No
		CH 100	5500		11.5	10.23	No
		CH 104	5520		11.5	10.55	No
		CH 108	5540		11.5	10.34	No
		CH 112	5560		11.5	10.91	No
		CH 116	5580		11.5	10.56	No
		CH 120	5600		11.5	10.58	No
		CH 124	5620		11.5	10.68	No
		CH 128	5640		11.5	10.62	No
		CH 132	5660		11.5	10.45	No
		CH 136	5680		11.5	10.46	No
		CH 140	5700		11.0	9.29	No
		CH 144	5720		11.5	10.37	No
		CH 149	5745		11.5	9.93	No
		CH 153	5765		11.5	10.13	No
		CH 157	5785		11.5	10.19	No
		CH 161	5805		11.5	9.74	No
		CH 165	5825		11.5	9.80	No
	Ant2	CH 36	5180	MCS0	8.5	5.52	No
		CH 40	5200		8.5	5.55	No
		CH 44	5220		8.5	5.59	No
		CH 48	5240		8.5	5.95	No
		CH 52	5260		8.5	7.01	No
		CH 56	5280		8.5	6.86	No
		CH 60	5300		8.5	6.71	No
		CH 64	5320		8.5	6.50	No
		CH 100	5500		8.5	6.72	No
		CH 104	5520		8.5	6.78	No
		CH 108	5540		8.5	7.06	No
		CH 112	5560		8.5	7.15	No
		CH 116	5580		8.5	7.40	No
		CH 120	5600		8.5	7.48	No
		CH 124	5620		8.5	6.85	No
		CH 128	5640		8.5	6.80	No
		CH 132	5660		8.5	7.22	No
		CH 136	5680		8.5	7.25	No
		CH 140	5700		8.5	7.04	No
		CH 144	5720		8.5	7.26	No
		CH 149	5745		8.5	6.88	No
		CH 153	5765		8.5	7.14	No
		CH 157	5785		8.5	6.82	No

		CH 161	5805		8.5	6.86	No
		CH 165	5825		8.5	7.01	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11ac SISO HT40 (5GHz)	Ant1	CH 38	5190	MCS0	9.0	8.33	No
		CH 46	5230		11.5	10.34	No
		CH 54	5270		11.5	10.58	No
		CH 62	5310		11.0	9.70	No
		CH 102	5510		9.0	8.65	No
		CH 110	5550		11.5	10.02	No
		CH 118	5590		11.5	10.04	No
		CH 126	5630		11.5	10.79	No
		CH 134	5670		11.5	10.93	No
		CH 142	5710		11.5	10.81	No
		CH 151	5755		11.5	11.41	No
		CH 159	5795		11.5	10.91	No
	Ant2	CH 38	5190	MCS0	8.5	8.12	No
		CH 46	5230		8.5	8.25	No
		CH 54	5270		8.5	7.86	No
		CH 62	5310		8.5	7.90	No
		CH 102	5510		8.5	8.36	No
		CH 110	5550		8.5	8.42	No
		CH 118	5590		8.5	8.42	No
		CH 126	5630		8.5	8.26	No
		CH 134	5670		8.5	8.40	No
		CH 142	5710		8.5	8.45	No
		CH 151	5755		8.5	8.20	No
		CH 159	5795		8.5	8.13	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11ac SISO HT80 (5GHz)	Ant1	CH 42	5210	MCS0	8.0	6.91	No
		CH 58	5290		11.5	10.41	Yes
		CH 106	5530		8.5	7.98	No
		CH 122	5610		11.5	10.98	Yes
		CH 138	5690		11.5	10.81	No
		CH 155	5775		11.5	10.66	Yes
	Ant2	CH 42	5210	MCS0	8.5	8.06	No
		CH 58	5290		8.5	8.12	Yes
		CH 106	5530		8.5	8.48	Yes
		CH 122	5610		8.5	8.42	No
		CH 138	5690		8.5	8.34	No
		CH 155	5775		8.5	8.22	Yes
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)

802.11a CDD (5GHz)	Sum	CH 36	5180	rate6	13.3	12.07	No
		CH 40	5200		13.3	12.40	No
		CH 44	5220		13.3	12.14	No
		CH 48	5240		13.3	12.18	No
		CH 52	5260		13.3	12.17	No
		CH 56	5280		13.3	12.24	No
		CH 60	5300		13.3	12.29	No
		CH 64	5320		13.3	12.25	No
		CH 100	5500		13.3	11.34	No
		CH 104	5520		13.3	11.42	No
		CH 108	5540		13.3	11.32	No
		CH 112	5560		13.3	11.46	No
		CH 116	5580		13.3	11.49	No
		CH 120	5600		13.3	11.61	No
		CH 124	5620		13.3	11.58	No
		CH 128	5640		13.3	11.60	No
		CH 132	5660		13.3	11.35	No
		CH 136	5680		13.3	11.40	No
		CH 140	5700		12.9	11.43	No
		CH 144	5720		13.3	11.49	No
		CH 149	5745		13.3	12.03	No
		CH 153	5765		13.3	11.92	No
		CH 157	5785		13.3	11.97	No
		CH 161	5805		13.3	11.94	No
		CH 165	5825		13.3	11.80	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11n MIMO HT20 (5GHz)	Sum	CH 36	5180	MCS8	13.3	11.78	No
		CH 40	5200		13.3	12.12	No
		CH 44	5220		13.3	12.05	No
		CH 48	5240		13.3	12.38	No
		CH 52	5260		13.3	11.45	No
		CH 56	5280		13.3	11.37	No
		CH 60	5300		13.3	11.78	No
		CH 64	5320		13.3	11.43	No
		CH 100	5500		13.3	11.11	No
		CH 104	5520		13.3	11.46	No
		CH 108	5540		13.3	11.52	No
		CH 112	5560		13.3	11.39	No
		CH 116	5580		13.3	11.52	No
		CH 120	5600		13.3	11.64	No
		CH 124	5620		13.3	11.80	No
		CH 128	5640		13.3	11.63	No

		CH 132	5660		13.3	11.47	No
		CH 136	5680		13.3	11.66	No
		CH 140	5700		12.9	11.51	No
		CH 144	5720		13.3	11.99	No
		CH 149	5745		13.3	12.18	No
		CH 153	5765		13.3	12.37	No
		CH 157	5785		13.3	11.92	No
		CH 161	5805		13.3	11.92	No
		CH 165	5825		13.3	11.87	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11n MIMO HT40 (5GHz)	Sum	CH 38	5190	MCS8	11.8	10.76	No
		CH 46	5230		13.3	11.49	No
		CH 54	5270		13.3	11.72	No
		CH 62	5310		12.9	11.19	No
		CH 102	5510		11.8	10.94	No
		CH 110	5550		13.3	12.30	No
		CH 118	5590		13.3	12.11	No
		CH 126	5630		13.3	12.20	No
		CH 134	5670		13.3	12.04	No
		CH 142	5710		13.3	12.11	No
		CH 151	5755		13.3	12.16	No
		CH 159	5795		13.3	12.23	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11ac MIMO HT20 (5GHz)	Sum	CH 36	5180	MCS0	13.3	11.45	No
		CH 40	5200		13.3	11.33	No
		CH 44	5220		13.3	11.58	No
		CH 48	5240		13.3	11.72	No
		CH 52	5260		13.3	12.46	No
		CH 56	5280		13.3	12.27	No
		CH 60	5300		13.3	12.15	No
		CH 64	5320		13.3	12.10	No
		CH 100	5500		13.3	11.19	No
		CH 104	5520		13.3	11.38	No
		CH 108	5540		13.3	11.41	No
		CH 112	5560		13.3	11.75	No
		CH 116	5580		13.3	11.69	No
		CH 120	5600		13.3	11.74	No
		CH 124	5620		13.3	11.49	No
		CH 128	5640		13.3	11.43	No
		CH 132	5660		13.3	11.55	No
		CH 136	5680		13.3	11.57	No
		CH 140	5700		12.9	10.90	No

		CH 144	5720		13.3	11.53	No
		CH 149	5745		13.3	11.49	No
		CH 153	5765		13.3	11.72	No
		CH 157	5785		13.3	11.57	No
		CH 161	5805		13.3	11.39	No
		CH 165	5825		13.3	11.50	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11ac MIMO HT40 (5GHz)	Sum	CH 38	5190	MCS0	11.8	11.27	No
		CH 46	5230		13.3	12.59	No
		CH 54	5270		13.3	12.60	No
		CH 62	5310		12.9	12.64	No
		CH 102	5510		11.8	11.59	No
		CH 110	5550		13.3	11.86	No
		CH 118	5590		13.3	11.88	No
		CH 126	5630		13.3	12.63	No
		CH 134	5670		13.3	12.77	No
		CH 142	5710		13.3	12.65	No
		CH 151	5755		13.3	12.23	No
		CH 159	5795		13.3	12.43	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11ac MIMO HT80 (5GHz)	Sum	CH 42	5210	MCS0	11.3	10.34	No
		CH 58	5290		13.3	12.20	Yes
		CH 106	5530		11.5	10.79	No
		CH 122	5610		13.3	12.90	Yes
		CH 138	5690		13.3	12.49	No
		CH 155	5775		13.3	12.33	Yes

Table 163: Conducted power measurement results of WiFi 5G(Receiver on)

Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11a SISO	Ant1	CH 36	5180	rate6	14.0	12.99	No
		CH 40	5200		16.0	15.46	No
		CH 44	5220		16.0	15.67	Yes
		CH 48	5240		16.0	15.67	No
		CH 52	5260		16.0	15.25	No
		CH 56	5280		16.0	15.68	Yes
		CH 60	5300		16.0	15.28	No
		CH 64	5320		14.0	13.29	No
		CH 100	5500		14.0	13.37	No
		CH 104	5520		16.0	15.44	No
		CH 108	5540		16.0	15.58	No
		CH 112	5560		16.0	15.68	No
		CH 116	5580		16.0	15.67	No
		CH 120	5600		16.0	15.68	No
		CH 124	5620		16.0	15.53	No
		CH 128	5640		16.0	15.65	No
		CH 132	5660		16.0	15.70	Yes
		CH 136	5680		16.0	15.54	No
		CH 140	5700		11.0	9.84	No
		CH 144	5720		16.0	15.64	No
		CH 149	5745		16.0	15.34	No
		CH 153	5765		16.0	15.28	No
		CH 157	5785		16.0	15.46	Yes
		CH 161	5805		16.0	15.22	No
		CH 165	5825		16.0	15.15	No
	Ant2	CH 36	5180	rate6	14.0	12.90	No
		CH 40	5200		14.0	12.95	No
		CH 44	5220		14.0	13.04	No
		CH 48	5240		14.0	13.27	Yes
		CH 52	5260		14.0	13.48	No
		CH 56	5280		14.0	13.51	No
		CH 60	5300		14.0	13.60	No
		CH 64	5320		14.0	13.65	Yes
		CH 100	5500		14.0	13.35	No
		CH 104	5520		14.0	13.64	No
		CH 108	5540		14.0	13.57	No
		CH 112	5560		14.0	13.80	Yes
		CH 116	5580		14.0	13.78	No
		CH 120	5600		14.0	13.45	No
		CH 124	5620		14.0	13.73	No
		CH 128	5640		14.0	13.72	No
		CH 132	5660		14.0	13.67	No
		CH 136	5680		14.0	13.72	No
		CH 140	5700		14.0	13.68	No
		CH 144	5720		14.0	13.72	No

		CH 149	5745		14.0	13.72	No
		CH 153	5765		14.0	13.47	No
		CH 157	5785		14.0	13.77	Yes
		CH 161	5805		14.0	13.27	No
		CH 165	5825		14.0	13.46	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11n SISO HT20 (5GHz)	Ant1	CH 36	5180	MCS0	14.0	12.99	No
		CH 40	5200		16.0	15.56	No
		CH 44	5220		16.0	15.11	No
		CH 48	5240		16.0	15.06	No
		CH 52	5260		16.0	15.51	No
		CH 56	5280		16.0	15.56	No
		CH 60	5300		16.0	15.21	No
		CH 64	5320		14.0	13.3	No
		CH 100	5500		14.0	13.15	No
		CH 104	5520		16.0	15.24	No
		CH 108	5540		16.0	15.41	No
		CH 112	5560		16.0	15.37	No
		CH 116	5580		16.0	15.39	No
		CH 120	5600		16.0	15.36	No
		CH 124	5620		16.0	15.34	No
		CH 128	5640		16.0	15.35	No
		CH 132	5660		16.0	15.11	No
		CH 136	5680		16.0	15.76	No
		CH 140	5700		11.0	10.24	No
		CH 144	5720		16.0	15.68	No
		CH 149	5745		16.0	15.66	No
		CH 153	5765		16.0	15.69	No
		CH 157	5785		16.0	15.78	No
		CH 161	5805		16.0	15.54	No
		CH 165	5825		16.0	15.6	No
	Ant2	CH 36	5180	MCS0	14.0	13.04	No
		CH 40	5200		14.0	13.71	No
		CH 44	5220		14.0	13.68	No
		CH 48	5240		14.0	13.62	No
		CH 52	5260		14.0	14.20	No
		CH 56	5280		14.0	13.65	No
		CH 60	5300		14.0	13.60	No
		CH 64	5320		14.0	13.34	No
		CH 100	5500		14.0	13.38	No
		CH 104	5520		14.0	13.59	No
		CH 108	5540		14.0	13.72	No
		CH 112	5560		14.0	13.85	No
		CH 116	5580		14.0	13.68	No

		CH 120	5600		14.0	13.71	No
		CH 124	5620		14.0	13.64	No
		CH 128	5640		14.0	13.67	No
		CH 132	5660		14.0	13.58	No
		CH 136	5680		14.0	13.49	No
		CH 140	5700		14.0	13.41	No
		CH 144	5720		14.0	13.70	No
		CH 149	5745		14.0	13.55	No
		CH 153	5765		14.0	13.87	No
		CH 157	5785		14.0	13.47	No
		CH 161	5805		14.0	13.77	No
		CH 165	5825		14.0	13.93	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11n SISO HT40 (5GHz)	Ant1	CH 38	5190	MCS0	9.0	7.53	No
		CH 46	5230		14.0	12.46	No
		CH 54	5270		14.0	12.55	No
		CH 62	5310		11.0	9.56	No
		CH 102	5510		9.0	8.22	No
		CH 110	5550		14.0	13	No
		CH 118	5590		14.0	13.25	No
		CH 126	5630		14.0	13.23	No
		CH 134	5670		14.0	13.08	No
		CH 142	5710		14.0	12.99	No
		CH 151	5755		14.0	12.75	No
		CH 159	5795		14.0	12.75	No
	Ant2	CH 38	5190	MCS0	12.0	10.96	No
		CH 46	5230		12.0	10.89	No
		CH 54	5270		12.0	11.12	No
		CH 62	5310		12.0	11.01	No
		CH 102	5510		12.0	11.35	No
		CH 110	5550		12.0	11.38	No
		CH 118	5590		12.0	11.56	No
		CH 126	5630		12.0	11.08	No
		CH 134	5670		12.0	11.11	No
		CH 142	5710		12.0	11.4	No
		CH 151	5755		12.0	11.31	No
		CH 159	5795		12.0	11.14	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11ac SISO HT20 (5GHz)	Ant1	CH 36	5180	MCS0	14.0	12.54	No
		CH 40	5200		16.0	14.52	No
		CH 44	5220		16.0	14.78	No
		CH 48	5240		16.0	14.78	No
		CH 52	5260		16.0	14.98	No

		CH 56	5280		16.0	15.02	No
		CH 60	5300		16.0	14.9	No
		CH 64	5320		14.0	13.01	No
		CH 100	5500		14.0	12.58	No
		CH 104	5520		16.0	14.78	No
		CH 108	5540		16.0	14.93	No
		CH 112	5560		16.0	14.93	No
		CH 116	5580		16.0	14.94	No
		CH 120	5600		16.0	14.96	No
		CH 124	5620		16.0	14.82	No
		CH 128	5640		16.0	14.77	No
		CH 132	5660		16.0	14.89	No
		CH 136	5680		16.0	14.85	No
		CH 140	5700		11.0	9.9	No
		CH 144	5720		16.0	14.78	No
		CH 149	5745		16.0	15.02	No
		CH 153	5765		16.0	14.92	No
		CH 157	5785		16.0	14.89	No
		CH 161	5805		16.0	14.9	No
		CH 165	5825		16.0	14.87	No
	Ant2	CH 36	5180	MCS0	14.0	13.07	No
		CH 40	5200		14.0	13.14	No
		CH 44	5220		14.0	13.15	No
		CH 48	5240		14.0	13.3	No
		CH 52	5260		14.0	13.66	No
		CH 56	5280		14.0	13.59	No
		CH 60	5300		14.0	13.6	No
		CH 64	5320		14.0	13.57	No
		CH 100	5500		14.0	13.24	No
		CH 104	5520		14.0	13.36	No
		CH 108	5540		14.0	13.31	No
		CH 112	5560		14.0	13.21	No
		CH 116	5580		14.0	13.24	No
		CH 120	5600		14.0	13.23	No
		CH 124	5620		14.0	13.33	No
		CH 128	5640		14.0	13.17	No
		CH 132	5660		14.0	13.15	No
		CH 136	5680		14.0	13.1	No
		CH 140	5700		14.0	13.21	No
		CH 144	5720		14.0	13.35	No
		CH 149	5745		14.0	13.19	No
		CH 153	5765		14.0	13.2	No
		CH 157	5785		14.0	13.63	No
		CH 161	5805		14.0	13.5	No
		CH 165	5825		14.0	13.53	No
Mode	Antenna	Channel	Frequency	Data Rate	Tune-up	Average	SAR Test

			(MHz)	(Mbps)		Power (dBm)	(Yes/No)
802.11ac SISO HT40 (5GHz)	Ant1	CH 38	5190	MCS0	9.0	8.32	No
		CH 46	5230		14.0	12.87	No
		CH 54	5270		14.0	13.1	No
		CH 62	5310		11.0	10.11	No
		CH 102	5510		9.0	8.63	No
		CH 110	5550		14.0	13.44	No
		CH 118	5590		14.0	13.39	No
		CH 126	5630		14.0	13.25	No
		CH 134	5670		14.0	13.26	No
		CH 142	5710		14.0	13.39	No
		CH 151	5755		14.0	13.26	No
		CH 159	5795		14.0	13.26	No
	Ant2	CH 38	5190	MCS0	12.0	11.6	No
		CH 46	5230		12.0	11.69	No
		CH 54	5270		12.0	11.64	No
		CH 62	5310		12.0	11.41	No
		CH 102	5510		12.0	11.82	No
		CH 110	5550		12.0	11.84	No
		CH 118	5590		12.0	11.96	No
		CH 126	5630		12.0	11.5	No
		CH 134	5670		12.0	11.83	No
		CH 142	5710		12.0	11.79	No
		CH 151	5755		12.0	11.37	No
		CH 159	5795		12.0	11.43	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11ac SISO HT80 (5GHz)	Ant1	CH 42	5210	MCS0	8.0	6.78	No
		CH 58	5290		11.5	10.49	No
		CH 106	5530		8.5	7.46	No
		CH 122	5610		12.5	11.93	No
		CH 138	5690		12.5	11.78	No
		CH 155	5775		12.5	11.37	No
	Ant2	CH 42	5210	MCS0	10.5	9.54	No
		CH 58	5290		10.5	9.57	No
		CH 106	5530		10.5	9.73	No
		CH 122	5610		10.5	9.81	No
		CH 138	5690		10.5	9.63	No
		CH 155	5775		10.5	9.52	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11a CDD	Sum	CH 36	5180	rate6	17.0	16.10	No
		CH 40	5200		18.1	17.33	Yes

(5GHz)		CH 44	5220		18.1	17.31	No
		CH 48	5240		18.1	17.31	No
		CH 52	5260		18.1	17.62	Yes
		CH 56	5280		18.1	17.50	No
		CH 60	5300		18.1	17.48	No
		CH 64	5320		17.0	16.49	No
		CH 100	5500		17.0	16.54	No
		CH 104	5520		18.1	17.66	No
		CH 108	5540		18.1	17.66	No
		CH 112	5560		18.1	17.74	No
		CH 116	5580		18.1	17.71	No
		CH 120	5600		18.1	17.64	No
		CH 124	5620		18.1	17.63	No
		CH 128	5640		18.1	17.49	No
		CH 132	5660		18.1	17.66	No
		CH 136	5680		18.1	17.79	Yes
		CH 140	5700		15.8	15.00	No
		CH 144	5720		18.1	17.53	No
		CH 149	5745		18.1	17.09	No
		CH 153	5765		18.1	17.09	No
		CH 157	5785		18.1	17.30	Yes
		CH 161	5805		18.1	16.74	No
		CH 165	5825		18.1	17.01	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11n MIMO HT20 (5GHz)	Sum	CH 36	5180	MCS8	17.0	15.00	No
		CH 40	5200		18.1	16.58	No
		CH 44	5220		18.1	16.31	No
		CH 48	5240		18.1	16.25	No
		CH 52	5260		18.1	16.76	No
		CH 56	5280		18.1	16.56	No
		CH 60	5300		18.1	16.33	No
		CH 64	5320		17.0	15.40	No
		CH 100	5500		17.0	15.57	No
		CH 104	5520		18.1	16.34	No
		CH 108	5540		18.1	16.50	No
		CH 112	5560		18.1	16.53	No
		CH 116	5580		18.1	16.47	No
		CH 120	5600		18.1	16.46	No
		CH 124	5620		18.1	16.42	No
		CH 128	5640		18.1	16.44	No
		CH 132	5660		18.1	16.26	No
		CH 136	5680		18.1	16.62	No
		CH 140	5700		15.8	14.07	No

		CH 144	5720		18.1	16.65	No
		CH 149	5745		18.1	16.58	No
		CH 153	5765		18.1	16.72	No
		CH 157	5785		18.1	16.62	No
		CH 161	5805		18.1	16.60	No
		CH 165	5825		18.1	16.70	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11n MIMO HT40 (5GHz)	Sum	CH 38	5190	MCS8	13.8	12.59	No
		CH 46	5230		16.1	14.76	No
		CH 54	5270		16.1	14.90	No
		CH 62	5310		14.5	13.36	No
		CH 102	5510		13.8	13.07	No
		CH 110	5550		16.1	15.28	No
		CH 118	5590		16.1	15.50	No
		CH 126	5630		16.1	15.30	No
		CH 134	5670		16.1	15.22	No
		CH 142	5710		16.1	15.28	No
		CH 151	5755		16.1	15.10	No
		CH 159	5795		16.1	15.03	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11ac MIMO HT20 (5GHz)	Sum	CH 36	5180	MCS0	17.0	15.56	No
		CH 40	5200		18.1	16.68	No
		CH 44	5220		18.1	16.85	No
		CH 48	5240		18.1	16.90	No
		CH 52	5260		18.1	17.17	No
		CH 56	5280		18.1	17.16	No
		CH 60	5300		18.1	17.09	No
		CH 64	5320		17.0	16.04	No
		CH 100	5500		17.0	15.66	No
		CH 104	5520		18.1	16.93	No
		CH 108	5540		18.1	17.00	No
		CH 112	5560		18.1	16.96	No
		CH 116	5580		18.1	16.98	No
		CH 120	5600		18.1	16.99	No
		CH 124	5620		18.1	16.94	No
		CH 128	5640		18.1	16.85	No
		CH 132	5660		18.1	16.92	No
		CH 136	5680		18.1	16.87	No
		CH 140	5700		15.8	14.53	No
		CH 144	5720		18.1	16.92	No
		CH 149	5745		18.1	17.01	No
		CH 153	5765		18.1	16.95	No

		CH 157	5785		18.1	17.10	No
		CH 161	5805		18.1	17.06	No
		CH 165	5825		18.1	17.05	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11ac MIMO HT40 (5GHz)	Sum	CH 38	5190	MCS0	13.8	13.27	No
		CH 46	5230		16.1	15.33	No
		CH 54	5270		16.1	15.44	No
		CH 62	5310		14.5	13.82	No
		CH 102	5510		13.8	13.52	No
		CH 110	5550		16.1	15.72	No
		CH 118	5590		16.1	15.74	No
		CH 126	5630		16.1	15.47	No
		CH 134	5670		16.1	15.61	No
		CH 142	5710		16.1	15.67	No
		CH 151	5755		16.1	15.43	No
		CH 159	5795		16.1	15.45	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11ac MIMO HT80 (5GHz)	Sum	CH 42	5210	MCS0	12.4	11.16	No
		CH 58	5290		14.0	12.88	No
		CH 106	5530		12.6	11.87	No
		CH 122	5610		14.6	13.83	No
		CH 138	5690		14.6	13.75	No
		CH 155	5775		14.6	13.73	No

Table 164: Conducted power measurement results of WiFi 5G(Receiver off)

Note:

1) The Average conducted power of WiFi is measured with RMS detector.

7.1.34 Conducted power measurements of BT

The output power of BT antenna is as following:

BT 2450	Tune-up	Average Conducted Power (dBm)		
	Max.	0CH	5CH	10CH
DH5	12.0	10.28	10.55	11.07
2DH5	6.5	5.02	5.26	5.63
3DH5	6.5	5.17	5.25	5.65
BT 2450	Tune-up	Average Conducted Power (dBm)		
	Max.	11CH	38CH	58CH
DH5	13.0	11.20	11.42	11.57
2DH5	7.3	6.01	6.16	6.10
3DH5	7.3	6.21	6.13	6.03
BT 2450	Tune-up	Average Conducted Power (dBm)		
	Max.	59CH	65CH	70CH
DH5	12.0	11.54	11.17	10.49
2DH5	7.0	5.92	5.85	5.50
3DH5	7.0	5.94	5.82	5.49
BT 2450	Tune-up	Average Conducted Power (dBm)		
	Max.	71CH	74CH	78CH
DH5	10.9	10.14	9.55	9.22
2DH5	5.8	5.29	4.68	4.05
3DH5	5.8	5.30	4.73	4.10
BT 2450	Tune-up	Average Conducted Power (dBm)		
	Max.	0CH	2CH	5CH
BT(BLE)	5.7	4.22	4.65	4.67
BT 2450	Tune-up	Average Conducted Power (dBm)		
	Max.	6CH	18CH	31CH
BT(BLE)	6.2	4.69	5.34	4.74
BT 2450	Tune-up	Average Conducted Power (dBm)		
	Max.	32CH	33CH	34CH
BT(BLE)	5.2	4.56	4.41	4.20
BT 2450	Tune-up	Average Conducted Power (dBm)		
	Max.	35CH	37CH	39CH
BT(BLE)	3.9	3.80	2.82	2.09

Table 165: Conducted power measurement results of BT.

Note: For BT, different maximum tune-up output power is specified across the different channels range. So the additional conducted power measurement for the adjacent channel of each power level stage is also performed in this report to ensure compliance. The bolded mode with the highest tune-up output power was selected for SAR test per KDB 447498D01.

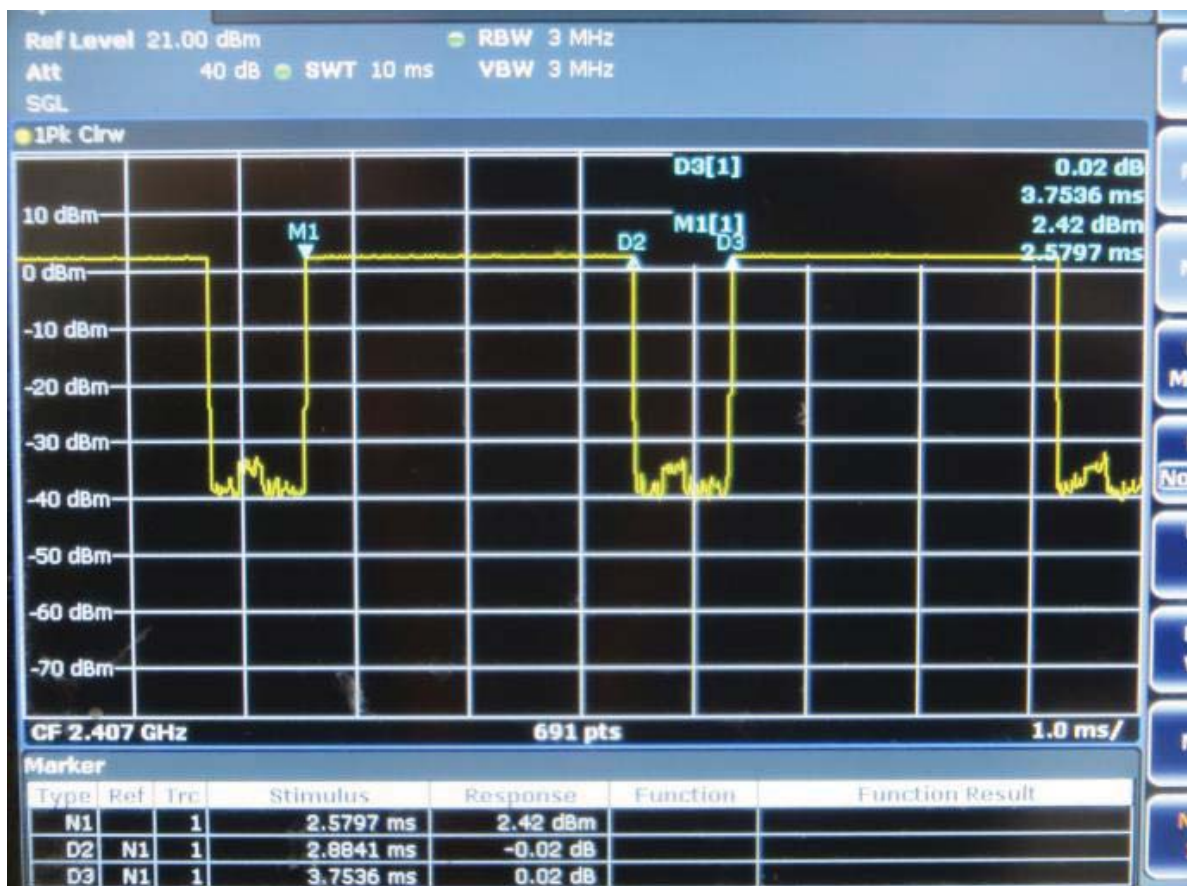


Figure: Bluetooth Transmission Plot

So the bluetooth duty cycle is calculated as below:

$$DutyCycle = pulse \frac{width}{period} * 100\% = \frac{2.8841ms}{3.7539ms} * 100\% = 76.8\%$$

7.2 SAR measurement Results

General Notes:

1) Per KDB447498 D01v06, all SAR measurement results are scaled to the maximum tune-up tolerance limit to demonstrate SAR compliance.

2) Per KDB447498 D01v06, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

- $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
- $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
- $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.

When the maximum output power variation across the required test channels is $> \frac{1}{2}\text{ dB}$, instead of the middle channel, the highest output power channel must be used.

3) Per KDB865664 D01, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/Kg}$; if the deviation among the repeated measurement is $\leq 20\%$, and the measured SAR $< 1.45\text{W/Kg}$, only one repeated measurement is required.

4) Per KDB941225 D06, the DUT Dimension is bigger than 9 cm x 5 cm, so 10mm is chosen as the test separation distance for Hotspot mode. When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

5) Per KDB648474 D04, SAR is evaluated without a headset connected to the device. When the standalone reported body-worn SAR is $\leq 1.2\text{ W/kg}$, no additional SAR evaluations using a headset are required.

6) Per KDB865664 D02, SAR plot is only required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination; Plots are also required when the measured SAR is $> 1.5\text{ W/kg}$, or $> 7.0\text{ W/kg}$ for occupational exposure. The published RF exposure KDB procedures may require additional plots; for example, to support SAR to peak location separation ratio test exclusion and/or volume scan post-processing(Refer to appendix B for details).

7) Main Antenna and Second Antenna are set to the MAX transmit power level respectively and test the SAR respectively in all applicable RF exposure conditions. Some commands are supplied to fix the operation state and choose the antenna, so that only one TX antenna and one modem is chosen and tested at a time. All independent antennas and modems are completely covered by the appropriate SAR measurements and all simultaneous transmission possibilities are fully considered.

8) Per KDB 447498D01: Body-worn accessories that do not contain metallic or conductive components is tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.

9) Additional SAR tests in simultaneous transmission fixed power reduction scenario are also tested in some frequency bands and required test positions for the SAR worst case, which are only used to ensure simultaneous transmission SAR test exclusion. The standalone SAR compliance still uses the SAR results tested at the maximum output power level.

10) Per KDB 648474 D04, Phones with built-in NFC functions do not require separate SAR testing and can generally be tested according to the SAR measurement procedures normally required for the phone. Influences of the hardware introduced by the built-in NFC functions are inherently considered through testing of the other transmitters that require SAR.

GSM Notes:

- 1) Per KDB941225 D01v03, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
- 2) Per KDB648474 D04v01, the device does not support DTM function. Body-worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.

UMTS Notes:

- 1) Per KDB941225 D01v03, When the maximum output power and tune-up tolerance specified for production units in a Second mode is $\leq \frac{1}{4}$ 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 Second to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the Second mode.

LTE Notes:

- 1) The LTE test configurations are determined according to KDB941225 D05 SAR for LTE Devices v02r03. The general test procedures used for SAR testing can be found in Section 6.5.
- 2) A-MPR was disabled for all SAR test by setting NS_01 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI)
- 3) According to KDB 941225 D05 SAR for LTE Devices v02r03, for Time-Division Duplex (TDD) systems, SAR is tested using a fixed periodic duty factor according to the highest transmission duty factor (63.33%) implemented for the device and supported by the defined 3GPP LTE TDD configurations.

WiFi Notes:

Per KDB248227D01:

- 1) When reported SAR for the initial test position is ≤ 0.4 W/kg, no additional testing for the remaining test position is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR position until the reported SAR result is ≤ 0.8 W/kg or all test position are measured. For all positions/configurations tested using the initial test position and subsequent test positions, when the *reported* SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the *reported* SAR is ≤ 1.2 W/kg or all required channels are tested..
- 2) When the DSSS *reported* SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 3) When the highest *reported* SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations
- 4) The highest SAR measured for the initial test position or initial test configuration should be used to determine SAR test exclusion according to the sum of 1-g SAR and SAR peak to location ratio provisions in KDB447498. In addition, a test lab may also choose to perform standalone SAR measurements for test positions and 802.11 configurations that are not required by the initial test position or initial test configuration procedures and apply the results to determine simultaneous transmission SAR test exclusion, according to sum of 1-g and SAR peak to location ratio requirements to reduce the number of simultaneous transmission SAR measurements.

- 5) For WIFI 2.4G CDD/MIMO SAR, the conservative “max + max” multi-Tx method is used to evaluate the WIFI 2.4G CDD/MIMO SAR in this report per KDB 248227.
- 6) For WIFI 5G CDD/MIMO SAR, as the conservative “max + max” multi-Tx method can not satisfy the determine simultaneous transmission SAR test exclusion, so the test lab chooses to perform WIFI 5G CDD/MIMO SAR measurements with two antennas transmittin at the same time to determine simultaneous transmission SAR test exclusion.

7.2.1 SAR measurement Result of GSM850(second antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	190/836.6	GSM	0.358	0.194	-0.18	29.39	30.50	0.462	Battery 1#	/
Left tilt	/	190/836.6	GSM	0.275	0.143	0.03	29.39	30.50	0.355	Battery 1#	/
Right touch	/	190/836.6	GSM	0.748	0.427	0.07	29.39	30.50	0.966	Battery 1#	Yes
Right touch	/	128/824.2	GSM	0.670	0.384	-0.01	29.25	30.50	0.893	Battery 1#	/
Right touch	/	251/848.8	GSM	0.689	0.393	0.00	29.46	30.50	0.875	Battery 1#	/
Right tilt	/	190/836.6	GSM	0.617	0.322	-0.11	29.39	30.50	0.797	Battery 1#	/
Right touch	/	190/836.6	GSM	0.739	0.423	0.01	29.39	30.50	0.954	Battery 2#	/
Right touch	/	190/836.6	GSM	0.734	0.420	-0.01	29.39	30.50	0.948	Battery 3#	/

Table 166: Head SAR test results of GSM850

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	190/836.6	GSM	0.269	0.188	-0.09	32.80	33.50	0.316	Battery 1#	/
Back Side	15mm	190/836.6	GSM	0.265	0.185	-0.09	32.80	33.50	0.311	Battery 1#	/
Front Side	15mm	190/836.6	GSM	0.251	0.183	0.05	32.80	33.50	0.295	Battery 2#	/
Front Side	15mm	190/836.6	GSM	0.282	0.194	-0.13	32.80	33.50	0.331	Battery 3#	Yes

Table 167: Body-Worn SAR test results of GSM850

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	190/836.6	GPRS 2TS	0.326	0.185	0.14	27.20	28.50	0.440	Battery 1#	Yes
Back Side	10mm	190/836.6	GPRS 2TS	0.270	0.155	0.02	27.20	28.50	0.364	Battery 1#	/
Left Side	10mm	190/836.6	GPRS 2TS	0.122	0.083	0.11	27.20	28.50	0.165	Battery 1#	/
Right Side	10mm	190/836.6	GPRS 2TS	0.028	0.017	0.14	27.20	28.50	0.037	Battery 1#	/
Top Side	10mm	190/836.6	GPRS 2TS	0.176	0.090	-0.16	27.20	28.50	0.237	Battery 1#	/
Front Side	10mm	190/836.6	GPRS 2TS	0.306	0.173	-0.11	27.20	28.50	0.413	Battery 2#	/
Front Side	10mm	190/836.6	GPRS 2TS	0.267	0.154	0.01	27.20	28.50	0.360	Battery 3#	/

Table 168: Hotspot SAR test results of GSM850

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	190/836.6	GPRS 2TS	0.326	0.185	0.14	27.20	31.50	0.877	Battery 1#	Yes
Back Side	10mm	190/836.6	GPRS 2TS	0.270	0.155	0.02	27.20	31.50	0.727	Battery 1#	Yes
Left Side	10mm	190/836.6	GPRS 2TS	0.122	0.083	0.11	27.20	31.50	0.328	Battery 1#	Yes
Right Side	10mm	190/836.6	GPRS 2TS	0.028	0.017	0.14	27.20	31.50	0.075	Battery 1#	Yes
Top Side	10mm	190/836.6	GPRS 2TS	0.176	0.090	-0.16	27.20	31.50	0.474	Battery 1#	Yes
Front Side	10mm	190/836.6	GPRS 2TS	0.306	0.173	-0.11	27.20	31.50	0.824	Battery 2#	Yes
Front Side	10mm	190/836.6	GPRS 2TS	0.267	0.154	0.01	27.20	31.50	0.719	Battery 3#	Yes

Table 169:Product Specific 10-g SAR test reduction evaluation of GSM850

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.2 SAR measurement Result of GSM1900(second antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	661/1880	GSM	0.595	0.331	0.17	28.66	30.00	0.810	Battery 1#	/
Left touch	/	512/1850.2	GSM	0.739	0.417	0.09	28.98	30.00	0.935	Battery 1#	Yes
Left touch	/	810/1909.8	GSM	0.649	0.359	0.13	28.41	30.00	0.936	Battery 1#	/
Left tilt	/	661/1880	GSM	0.421	0.223	0.06	28.66	30.00	0.573	Battery 1#	/
Right touch	/	661/1880	GSM	0.539	0.303	0.19	25.55	27.00	0.753	Battery 1#	/
Right tilt	/	661/1880	GSM	0.341	0.186	-0.04	25.55	27.00	0.476	Battery 1#	/
Left touch	/	810/1909.8	GSM	0.635	0.356	0.19	28.41	30.00	0.916	Battery 2#	/
Left touch	/	810/1909.8	GSM	0.672	0.379	-0.04	28.41	30.00	0.969	Battery 3#	/
Additional SAR test for Simultaneous Transmission											
Left touch	/	661/1880	GSM	0.353	0.198	0.17	25.80	27.00	0.465	Battery 3#	/
Left tilt	/	661/1880	GSM	0.208	0.112	0.06	25.80	27.00	0.274	Battery 3#	/

Table 170: Head SAR test results of GSM1900

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	661/1880	GSM	0.042	0.023	0.15	30.10	31.00	0.051	Battery 1#	/
Back Side	15mm	661/1880	GSM	0.111	0.070	0.06	30.10	31.00	0.137	Battery 1#	/
Back Side	15mm	661/1880	GSM	0.122	0.075	0.07	30.10	31.00	0.150	Battery 2#	Yes
Back Side	15mm	661/1880	GSM	0.122	0.075	-0.04	30.10	31.00	0.150	Battery 3#	/

Table 171: Body-Worn SAR test results of GSM1900

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	661/1880	GPRS 2TS	0.126	0.067	0.18	24.70	26.00	0.170	Battery 1#	/
Back Side	10mm	661/1880	GPRS 2TS	0.139	0.083	-0.07	24.70	26.00	0.188	Battery 1#	/
Left Side	10mm	661/1880	GPRS 2TS	0.091	0.043	0.01	24.70	26.00	0.123	Battery 1#	/
Right Side	10mm	661/1880	GPRS 2TS	0.010	0.006	-0.10	24.70	26.00	0.014	Battery 1#	/
Top Side	10mm	661/1880	GPRS 2TS	0.115	0.065	-0.08	24.70	26.00	0.155	Battery 1#	/
Back Side	10mm	661/1880	GPRS 2TS	0.174	0.099	-0.17	24.70	26.00	0.235	Battery 2#	Yes
Back Side	10mm	661/1880	GPRS 2TS	0.152	0.087	0.19	24.70	26.00	0.205	Battery 3#	/

Table 172: Hotspot SAR test results of GSM1900

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	661/1880	GPRS 2TS	0.126	0.067	0.18	24.70	29.00	0.339	Battery 1#	Yes
Back Side	10mm	661/1880	GPRS 2TS	0.139	0.083	-0.07	24.70	29.00	0.374	Battery 1#	Yes
Left Side	10mm	661/1880	GPRS 2TS	0.091	0.043	0.01	24.70	29.00	0.245	Battery 1#	Yes
Right Side	10mm	661/1880	GPRS 2TS	0.010	0.006	-0.10	24.70	29.00	0.028	Battery 1#	Yes
Top Side	10mm	661/1880	GPRS 2TS	0.115	0.065	-0.08	24.70	29.00	0.310	Battery 1#	Yes
Back Side	10mm	661/1880	GPRS 2TS	0.174	0.099	-0.17	24.70	29.00	0.468	Battery 2#	Yes
Back Side	10mm	661/1880	GPRS 2TS	0.152	0.087	0.19	24.70	29.00	0.409	Battery 3#	Yes

Table 173:Product Specific 10-g SAR test reduction evaluation of GSM1900

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.3 SAR measurement Result of UMTS Band II(second antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	9400/1880	RMC	0.694	0.388	0.05	18.46	20.00	0.989	Battery 1#	/
Left touch	/	9262/1852.4	RMC	0.676	0.379	0.01	18.50	20.00	0.955	Battery 1#	/
Left touch	/	9538/1907.6	RMC	0.726	0.402	0.10	18.35	20.00	1.062	Battery 1#	Yes
Left tilt	/	9400/1880	RMC	0.404	0.216	-0.01	18.46	20.00	0.576	Battery 1#	/
Right touch	/	9400/1880	RMC	0.536	0.302	-0.12	15.34	17.00	0.786	Battery 1#	/
Right tilt	/	9400/1880	RMC	0.374	0.209	0.03	15.34	17.00	0.548	Battery 1#	/
Left touch	/	9538/1907.6	RMC	0.725	0.405	0.12	18.35	20.00	1.060	Battery 2#	/
Left touch	/	9538/1907.6	RMC	0.612	0.338	0.05	18.35	20.00	0.895	Battery 3#	/
Additional SAR test for Simultaneous Transmission											
Left touch	/	9400/1880	RMC	0.322	0.180	0.08	15.34	17.00	0.472	Battery 1#	/
Left tilt	/	9400/1880	RMC	0.219	0.117	0.11	15.34	17.00	0.321	Battery 1#	/

Table 174: Head SAR test results of UMTS Band II

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	9400/1880	RMC	0.146	0.085	0.10	20.88	22.50	0.212	Battery 1#	/
Back Side	15mm	9400/1880	RMC	0.146	0.091	0.11	20.88	22.50	0.212	Battery 1#	/
Back Side	15mm	9400/1880	RMC	0.167	0.103	0.18	20.88	22.50	0.243	Battery 2#	Yes
Back Side	15mm	9400/1880	RMC	0.160	0.094	0.14	20.88	22.50	0.232	Battery 3#	/

Table 175: Body-Worn SAR test results of UMTS Band II

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	9400/1880	RMC	0.180	0.097	0.05	17.72	19.50	0.271	Battery 1#	Yes
Back Side	10mm	9400/1880	RMC	0.173	0.104	0.11	17.72	19.50	0.261	Battery 1#	/
Left Side	10mm	9400/1880	RMC	0.121	0.056	-0.09	17.72	19.50	0.182	Battery 1#	/
Right Side	10mm	9400/1880	RMC	0.013	0.007	0.01	17.72	19.50	0.019	Battery 1#	/
Top Side	10mm	9400/1880	RMC	0.171	0.095	-0.09	17.72	19.50	0.258	Battery 1#	/
Front Side	10mm	9400/1880	RMC	0.143	0.077	0.08	17.72	19.50	0.215	Battery 2#	/
Front Side	10mm	9400/1880	RMC	0.168	0.090	-0.04	17.72	19.50	0.253	Battery 3#	/

Table 176: Hotspot SAR test results of UMTS Band II

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	9400/1880	RMC	0.180	0.097	0.05	17.72	22.50	0.541	Battery 1#	Yes
Back Side	10mm	9400/1880	RMC	0.173	0.104	0.11	17.72	22.50	0.520	Battery 1#	Yes
Left Side	10mm	9400/1880	RMC	0.121	0.056	-0.09	17.72	22.50	0.364	Battery 1#	Yes
Right Side	10mm	9400/1880	RMC	0.013	0.007	0.01	17.72	22.50	0.038	Battery 1#	Yes
Top Side	10mm	9400/1880	RMC	0.171	0.095	-0.09	17.72	22.50	0.514	Battery 1#	Yes
Front Side	10mm	9400/1880	RMC	0.143	0.077	0.08	17.72	22.50	0.430	Battery 2#	Yes
Front Side	10mm	9400/1880	RMC	0.168	0.090	-0.04	17.72	22.50	0.505	Battery 3#	Yes

Table 177:Product Specific 10-g SAR test reduction evaluation of UMTS Band II

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.4 SAR measurement Result of UMTS Band IV(second antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	1413/1732.6	RMC	0.606	0.364	0.03	19.72	21.00	0.814	Battery 1#	/
Left touch	/	1312/1712.4	RMC	0.634	0.365	-0.04	19.93	21.00	0.811	Battery 1#	/
Left touch	/	1513/1752.6	RMC	0.837	0.494	0.05	19.80	21.00	1.103	Battery 1#	/
Left tilt	/	1413/1732.6	RMC	0.502	0.274	0.04	19.72	21.00	0.674	Battery 1#	/
Right touch	/	1413/1732.6	RMC	0.682	0.384	0.02	16.70	18.00	0.920	Battery 1#	/
Right touch	/	1312/1712.4	RMC	0.625	0.350	-0.04	16.89	18.00	0.807	Battery 1#	/
Right touch	/	1513/1752.6	RMC	0.733	0.414	-0.02	16.75	18.00	0.977	Battery 1#	/
Right tilt	/	1413/1732.6	RMC	0.533	0.285	0.01	16.70	18.00	0.719	Battery 1#	/
Left touch	/	1513/1752.6	RMC	0.687	0.392	0.07	19.80	21.00	0.906	Battery 2#	/
Left touch	/	1513/1752.6	RMC	0.838	0.501	0.04	19.80	21.00	1.105	Battery 3#	Yes
Left touch - Repeated	/	1513/1752.6	RMC	0.724	0.409	0.05	19.80	21.00	0.954	Battery 3#	/
Additional SAR test for Simultaneous Transmission											
Left touch	/	1413/1732.6	RMC	0.506	0.299	0.02	16.74	18.00	0.676	Battery 3#	/
Left tilt	/	1413/1732.6	RMC	0.351	0.202	0.04	16.74	18.00	0.469	Battery 3#	/

Table 178: Head SAR test results of UMTS Band IV

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	1413/1732.6	RMC	0.120	0.079	-0.12	21.25	22.50	0.160	Battery 1#	/
Back Side	15mm	1413/1732.6	RMC	0.159	0.106	0.03	21.25	22.50	0.212	Battery 1#	/
Back Side	15mm	1413/1732.6	RMC	0.156	0.104	-0.01	21.25	22.50	0.208	Battery 2#	/
Back Side	15mm	1413/1732.6	RMC	0.167	0.111	-0.09	21.25	22.50	0.223	Battery 3#	Yes

Table 179: Body-Worn SAR test results of UMTS Band IV

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	1413/1732.6	RMC	0.111	0.057	-0.13	18.38	19.50	0.144	Battery 1#	/
Back Side	10mm	1413/1732.6	RMC	0.142	0.088	-0.10	18.38	19.50	0.184	Battery 1#	/
Left Side	10mm	1413/1732.6	RMC	0.134	0.062	-0.13	18.38	19.50	0.173	Battery 1#	/
Right Side	10mm	1413/1732.6	RMC	0.013	0.007	0.18	18.38	19.50	0.017	Battery 1#	/
Top Side	10mm	1413/1732.6	RMC	0.074	0.044	0.12	18.38	19.50	0.096	Battery 1#	/
Back Side	10mm	1413/1732.6	RMC	0.158	0.097	0.05	18.38	19.50	0.204	Battery 2#	/
Back Side	10mm	1413/1732.6	RMC	0.159	0.097	0.04	18.38	19.50	0.206	Battery 3#	Yes

Table 180: Hotspot SAR test results of UMTS Band IV

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	1413/1732.6	RMC	0.111	0.057	-0.13	18.38	22.50	0.287	Battery 1#	Yes
Back Side	10mm	1413/1732.6	RMC	0.142	0.088	-0.10	18.38	22.50	0.367	Battery 1#	Yes
Left Side	10mm	1413/1732.6	RMC	0.134	0.062	-0.13	18.38	22.50	0.346	Battery 1#	Yes
Right Side	10mm	1413/1732.6	RMC	0.013	0.007	0.18	18.38	22.50	0.034	Battery 1#	Yes
Top Side	10mm	1413/1732.6	RMC	0.074	0.044	0.12	18.38	22.50	0.191	Battery 1#	Yes
Back Side	10mm	1413/1732.6	RMC	0.158	0.097	0.05	18.38	22.50	0.408	Battery 2#	Yes
Back Side	10mm	1413/1732.6	RMC	0.159	0.097	0.04	18.38	22.50	0.411	Battery 3#	Yes

Table 181:Product Specific 10-g SAR test reduction evaluation of UMTS Band IV

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.5 SAR measurement Result of UMTS Band V(second antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	4182/836.4	RMC	0.664	0.362	-0.16	19.60	20.60	0.836	Battery 1#	Yes
Left touch	/	4132/826.4	RMC	0.643	0.351	-0.07	19.70	20.60	0.791	Battery 1#	/
Left touch	/	4233/846.6	RMC	0.623	0.339	-0.13	19.43	20.60	0.816	Battery 1#	/
Left tilt	/	4182/836.4	RMC	0.486	0.260	-0.05	19.60	20.60	0.612	Battery 1#	/
Right touch	/	4182/836.4	RMC	0.603	0.354	-0.18	19.60	20.60	0.759	Battery 1#	/
Right tilt	/	4182/836.4	RMC	0.493	0.259	-0.06	19.60	20.60	0.621	Battery 1#	/
Left touch	/	4182/836.4	RMC	0.647	0.352	-0.08	19.60	20.60	0.815	Battery 2#	/
Left touch	/	4182/836.4	RMC	0.641	0.349	-0.12	19.60	20.60	0.807	Battery 3#	/
Additional SAR test for Simultaneous Transmission											
Left touch	/	4182/836.4	RMC	0.337	0.184	-0.02	16.60	17.60	0.424	Battery 1#	/
Left tilt	/	4182/836.4	RMC	0.234	0.124	0.04	16.60	17.60	0.295	Battery 1#	/

Table 182: Head SAR test results of UMTS Band V

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	4182/836.4	RMC	0.311	0.211	0.00	23.64	24.60	0.388	Battery 1#	/
Back Side	15mm	4182/836.4	RMC	0.302	0.217	0.01	23.64	24.60	0.377	Battery 1#	/
Front Side	15mm	4182/836.4	RMC	0.319	0.225	0.01	23.64	24.60	0.398	Battery 2#	Yes
Front Side	15mm	4182/836.4	RMC	0.305	0.217	0.03	23.64	24.60	0.380	Battery 3#	/

Table 183: Body-Worn SAR test results of UMTS Band V

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	4182/836.4	RMC	0.289	0.163	0.05	20.59	21.60	0.365	Battery 1#	Yes
Back Side	10mm	4182/836.4	RMC	0.256	0.154	-0.09	20.59	21.60	0.323	Battery 1#	/
Left Side	10mm	4182/836.4	RMC	0.146	0.100	-0.08	20.59	21.60	0.184	Battery 1#	/
Right Side	10mm	4182/836.4	RMC	0.022	0.013	-0.17	20.59	21.60	0.027	Battery 1#	/
Top Side	10mm	4182/836.4	RMC	0.168	0.087	-0.15	20.59	21.60	0.212	Battery 1#	/
Front Side	10mm	4182/836.4	RMC	0.264	0.154	-0.03	20.59	21.60	0.333	Battery 2#	/
Front Side	10mm	4182/836.4	RMC	0.254	0.148	0.00	20.59	21.60	0.321	Battery 3#	/

Table 184: Hotspot SAR test results of UMTS Band V

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	4182/836.4	RMC	0.289	0.163	0.05	20.59	24.60	0.728	Battery 1#	Yes
Back Side	10mm	4182/836.4	RMC	0.256	0.154	-0.09	20.59	24.60	0.645	Battery 1#	Yes
Left Side	10mm	4182/836.4	RMC	0.146	0.100	-0.08	20.59	24.60	0.368	Battery 1#	Yes
Right Side	10mm	4182/836.4	RMC	0.022	0.013	-0.17	20.59	24.60	0.055	Battery 1#	Yes
Top Side	10mm	4182/836.4	RMC	0.168	0.087	-0.15	20.59	24.60	0.423	Battery 1#	Yes
Front Side	10mm	4182/836.4	RMC	0.264	0.154	-0.03	20.59	24.60	0.665	Battery 2#	Yes
Front Side	10mm	4182/836.4	RMC	0.254	0.148	0.00	20.59	24.60	0.639	Battery 3#	Yes

Table 185:Product Specific 10-g SAR test reduction evaluation of UMTS Band V

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.6 SAR measurement Result of LTE Band II(second antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	18700/1860	20M QPSK 1RB#99	0.637	0.361	0.08	20.04	20.50	0.708	Battery 1#	/
Left tilt	/	18700/1860	20M QPSK 1RB#99	0.508	0.273	-0.10	20.04	20.50	0.565	Battery 1#	/
Right touch	/	19100/1900	20M QPSK 1RB#99	0.508	0.289	-0.06	16.52	17.00	0.567	Battery 1#	/
Right tilt	/	19100/1900	20M QPSK 1RB#99	0.483	0.265	-0.07	16.52	17.00	0.539	Battery 1#	/
Left touch	/	19100/1900	20M QPSK 50%RB#0	0.644	0.362	0.02	19.87	20.50	0.745	Battery 1#	/
Left tilt	/	19100/1900	20M QPSK 50%RB#0	0.596	0.317	0.12	19.87	20.50	0.689	Battery 1#	/
Right touch	/	18700/1860	20M QPSK 50%RB#0	0.479	0.270	-0.03	16.35	17.00	0.556	Battery 1#	/
Right tilt	/	18700/1860	20M QPSK 50%RB#0	0.469	0.257	-0.07	16.35	17.00	0.545	Battery 1#	/
Left touch	/	19100/1900	20M QPSK 50%RB#0	0.815	0.453	-0.01	19.87	20.50	0.942	Battery 2#	Yes
Left touch	/	18700/1860	20M QPSK 50%RB#0	0.787	0.442	0.08	19.84	20.50	0.916	Battery 2#	/
Left touch	/	18900/1880	20M QPSK 50%RB#0	0.725	0.408	0.06	19.84	20.50	0.844	Battery 2#	/
Left touch	/	18700/1860	20M QPSK 100%RB#0	0.715	0.404	0.09	19.84	20.50	0.832	Battery 2#	/
Left touch	/	19100/1900	20M QPSK 50%RB#0	0.643	0.358	0.06	19.87	20.50	0.743	Battery 3#	/
Left touch - Repeated	/	19100/1900	20M QPSK 50%RB#0	0.771	0.425	0.00	19.87	20.50	0.891	Battery 2#	/
Additional SAR test for Simultaneous Transmission											
Left touch	/	18900/1880	20M QPSK 1RB#99	0.355	0.198	0.07	17.05	17.50	0.394	Battery 2#	/
Left tilt	/	18900/1880	20M QPSK 1RB#99	0.258	0.137	0.09	17.05	17.50	0.286	Battery 2#	/
Left touch	/	19100/1900	20M QPSK 50%RB#0	0.360	0.200	0.14	16.85	17.50	0.418	Battery 2#	/
Left tilt	/	19100/1900	20M QPSK 50%RB#0	0.290	0.154	-0.01	16.85	17.50	0.337	Battery 2#	/

Table 186: Head SAR test results of LTE Band II

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	18900/1880	20M QPSK 1RB#99	0.122	0.067	-0.01	20.95	21.50	0.138	Battery 1#	/
Back Side	15mm	18900/1880	20M QPSK 1RB#99	0.123	0.076	0.13	20.95	21.50	0.140	Battery 1#	/
Front Side	15mm	19100/1900	20M QPSK 50%RB#0	0.122	0.067	-0.17	20.92	21.50	0.139	Battery 1#	/
Back Side	15mm	19100/1900	20M QPSK 50%RB#0	0.110	0.073	0.08	20.92	21.50	0.126	Battery 1#	/
Back Side	15mm	18900/1880	20M QPSK 1RB#99	0.163	0.100	-0.15	20.95	21.50	0.185	Battery 2#	Yes
Back Side	15mm	18900/1880	20M QPSK 1RB#99	0.136	0.084	0.16	20.95	21.50	0.154	Battery 3#	/

Table 187: Body-Worn SAR test results of LTE Band II

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	19100/1900	20M QPSK 1RB#99	0.140	0.075	0.01	18.08	18.50	0.154	Battery 1#	/
Back Side	10mm	19100/1900	20M QPSK 1RB#99	0.123	0.073	0.13	18.08	18.50	0.135	Battery 1#	/
Left Side	10mm	19100/1900	20M QPSK 1RB#99	0.098	0.045	0.03	18.08	18.50	0.108	Battery 1#	/
Right Side	10mm	19100/1900	20M QPSK 1RB#99	0.004	0.001	0.04	18.08	18.50	0.005	Battery 1#	/
Top Side	10mm	19100/1900	20M QPSK 1RB#99	0.127	0.071	0.11	18.08	18.50	0.140	Battery 1#	/
Front Side	10mm	19100/1900	20M QPSK 50%RB#0	0.142	0.076	0.01	17.86	18.50	0.165	Battery 1#	Yes
Back Side	10mm	19100/1900	20M QPSK 50%RB#0	0.121	0.073	0.08	17.86	18.50	0.140	Battery 1#	/
Left Side	10mm	19100/1900	20M QPSK 50%RB#0	0.101	0.046	-0.10	17.86	18.50	0.117	Battery 1#	/
Right Side	10mm	19100/1900	20M QPSK 50%RB#0	0.008	0.004	-0.09	17.86	18.50	0.009	Battery 1#	/
Top Side	10mm	19100/1900	20M QPSK 50%RB#0	0.116	0.064	0.03	17.86	18.50	0.134	Battery 1#	/
Front Side	10mm	19100/1900	20M QPSK 50%RB#0	0.127	0.067	0.02	17.86	18.50	0.147	Battery 2#	/
Front Side	10mm	19100/1900	20M QPSK 50%RB#0	0.129	0.068	-0.14	17.86	18.50	0.149	Battery 3#	/

Table 188: Hotspot SAR test results of LTE Band II

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	19100/1900	20M QPSK 1RB#99	0.140	0.075	0.01	18.08	21.50	0.308	Battery 1#	Yes
Back Side	10mm	19100/1900	20M QPSK 1RB#99	0.123	0.073	0.13	18.08	21.50	0.270	Battery 1#	Yes
Left Side	10mm	19100/1900	20M QPSK 1RB#99	0.098	0.045	0.03	18.08	21.50	0.215	Battery 1#	Yes
Right Side	10mm	19100/1900	20M QPSK 1RB#99	0.004	0.001	0.04	18.08	21.50	0.010	Battery 1#	Yes
Top Side	10mm	19100/1900	20M QPSK 1RB#99	0.127	0.071	0.11	18.08	21.50	0.279	Battery 1#	Yes
Front Side	10mm	19100/1900	20M QPSK 50%RB#0	0.142	0.076	0.01	17.86	21.50	0.328	Battery 1#	Yes
Back Side	10mm	19100/1900	20M QPSK 50%RB#0	0.121	0.073	0.08	17.86	21.50	0.280	Battery 1#	Yes
Left Side	10mm	19100/1900	20M QPSK 50%RB#0	0.101	0.046	-0.10	17.86	21.50	0.234	Battery 1#	Yes
Right Side	10mm	19100/1900	20M QPSK 50%RB#0	0.008	0.004	-0.09	17.86	21.50	0.019	Battery 1#	Yes
Top Side	10mm	19100/1900	20M QPSK 50%RB#0	0.116	0.064	0.03	17.86	21.50	0.268	Battery 1#	Yes
Front Side	10mm	19100/1900	20M QPSK 50%RB#0	0.127	0.067	0.02	17.86	21.50	0.294	Battery 2#	Yes
Front Side	10mm	19100/1900	20M QPSK 50%RB#0	0.129	0.068	-0.14	17.86	21.50	0.298	Battery 3#	Yes

Table 189: Product Specific 10-g SAR test reduction evaluation of LTE Band II

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.7 SAR measurement Result of LTE Band IV(second antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	20300/1745	20M QPSK 1RB#99	1.020	0.607	0.00	21.16	21.50	1.103	Battery 1#	/
Left touch	/	20050/1720	20M QPSK 1RB#99	0.925	0.556	0.09	21.07	21.50	1.021	Battery 1#	/
Left touch	/	20175/1732.5	20M QPSK 1RB#99	1.030	0.615	0.05	21.09	21.50	1.132	Battery 1#	/
Left tilt	/	20300/1745	20M QPSK 1RB#99	0.726	0.410	0.02	21.16	21.50	0.785	Battery 1#	/
Right touch	/	20175/1732.5	20M QPSK 1RB#99	0.628	0.356	0.16	17.15	17.50	0.681	Battery 1#	/
Right tilt	/	20175/1732.5	20M QPSK 1RB#99	0.420	0.229	0.01	17.15	17.50	0.455	Battery 1#	/
Left touch	/	20300/1745	20M QPSK 50%RB#50	0.969	0.576	0.06	20.93	21.50	1.105	Battery 1#	/
Left touch	/	20050/1720	20M QPSK 50%RB#50	0.878	0.528	0.07	20.95	21.50	0.997	Battery 1#	/
Left touch	/	20175/1732.5	20M QPSK 50%RB#0	0.956	0.566	0.05	20.94	21.50	1.088	Battery 1#	/
Left tilt	/	20050/1720	20M QPSK 50%RB#50	0.672	0.381	-0.06	20.95	21.50	0.763	Battery 1#	/
Right touch	/	20050/1720	20M QPSK 50%RB#50	0.628	0.348	0.02	16.95	17.50	0.713	Battery 1#	/
Right tilt	/	20050/1720	20M QPSK 50%RB#50	0.427	0.230	0.03	16.95	17.50	0.485	Battery 1#	/
Left touch	/	20300/1745	20M QPSK 100%RB#0	0.890	0.510	0.03	20.95	21.50	1.010	Battery 1#	/
Left touch	/	20175/1732.5	20M QPSK 1RB#99	0.770	0.445	-0.06	21.09	21.50	0.846	Battery 2#	/
Left touch	/	20175/1732.5	20M QPSK 1RB#99	0.931	0.566	0.03	21.09	21.50	1.023	Battery 3#	/
Left touch - Repeated	/	20175/1732.5	20M QPSK 1RB#99	1.050	0.632	0.04	21.09	21.50	1.154	Battery 1#	Yes
Additional SAR test for Simultaneous Transmission											
Left touch	/	20175/1732.5	20M QPSK 1RB#99	0.469	0.279	0.01	18.14	18.50	0.510	Battery 1#	/
Left tilt	/	20175/1732.5	20M QPSK 1RB#99	0.405	0.235	0.03	18.14	18.50	0.440	Battery 1#	/
Left touch	/	20300/1745	20M QPSK 50%RB#0	0.307	0.226	0.08	17.96	18.50	0.348	Battery 1#	/
Left tilt	/	20300/1745	20M QPSK 50%RB#0	0.278	0.159	0.06	17.96	18.50	0.315	Battery 1#	/

Table 190: Head SAR test results of LTE Band IV

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	20300/1745	20M QPSK 1RB#99	0.170	0.112	0.00	22.21	22.50	0.182	Battery 1#	/
Back Side	15mm	20300/1745	20M QPSK 1RB#99	0.194	0.129	0.01	22.21	22.50	0.207	Battery 1#	/
Front Side	15mm	20050/1720	20M QPSK 50%RB#50	0.125	0.075	-0.07	22.04	22.50	0.139	Battery 1#	/
Back Side	15mm	20050/1720	20M QPSK 50%RB#50	0.160	0.100	0.06	22.04	22.50	0.178	Battery 1#	/
Back Side	15mm	20300/1745	20M QPSK 1RB#99	0.175	0.108	-0.03	22.21	22.50	0.187	Battery 2#	/
Back Side	15mm	20300/1745	20M QPSK 1RB#99	0.207	0.138	-0.02	22.21	22.50	0.221	Battery 3#	Yes

Table 191: Body-Worn SAR test results of LTE Band IV

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	20300/1745	20M QPSK 1RB#99	0.146	0.076	-0.03	19.15	19.50	0.158	Battery 1#	/
Back Side	10mm	20300/1745	20M QPSK 1RB#99	0.180	0.116	0.12	19.15	19.50	0.195	Battery 1#	Yes
Left Side	10mm	20300/1745	20M QPSK 1RB#99	0.144	0.068	-0.13	19.15	19.50	0.156	Battery 1#	/
Right Side	10mm	20300/1745	20M QPSK 1RB#99	0.015	0.009	0.18	19.15	19.50	0.016	Battery 1#	/
Top Side	10mm	20300/1745	20M QPSK 1RB#99	0.093	0.055	-0.06	19.15	19.50	0.101	Battery 1#	/
Front Side	10mm	20050/1720	20M QPSK 50%RB#0	0.099	0.051	0.05	18.99	19.50	0.111	Battery 1#	/
Back Side	10mm	20050/1720	20M QPSK 50%RB#0	0.154	0.098	-0.04	18.99	19.50	0.173	Battery 1#	/
Left Side	10mm	20050/1720	20M QPSK 50%RB#0	0.127	0.058	-0.11	18.99	19.50	0.143	Battery 1#	/
Right Side	10mm	20050/1720	20M QPSK 50%RB#0	0.013	0.008	-0.17	18.99	19.50	0.014	Battery 1#	/
Top Side	10mm	20050/1720	20M QPSK 50%RB#0	0.065	0.038	-0.12	18.99	19.50	0.073	Battery 1#	/
Back Side	10mm	20300/1745	20M QPSK 1RB#99	0.174	0.112	-0.11	19.15	19.50	0.189	Battery 2#	/
Back Side	10mm	20300/1745	20M QPSK 1RB#99	0.174	0.111	0.05	19.15	19.50	0.189	Battery 3#	/

Table 192: Hotspot SAR test results of LTE Band IV

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	20300/1745	20M QPSK 1RB#99	0.146	0.076	-0.03	19.15	22.50	0.316	Battery 1#	Yes
Back Side	10mm	20300/1745	20M QPSK 1RB#99	0.180	0.116	0.12	19.15	22.50	0.389	Battery 1#	Yes
Left Side	10mm	20300/1745	20M QPSK 1RB#99	0.144	0.068	-0.13	19.15	22.50	0.311	Battery 1#	Yes
Right Side	10mm	20300/1745	20M QPSK 1RB#99	0.015	0.009	0.18	19.15	22.50	0.032	Battery 1#	Yes
Top Side	10mm	20300/1745	20M QPSK 1RB#99	0.093	0.055	-0.06	19.15	22.50	0.201	Battery 1#	Yes
Front Side	10mm	20050/1720	20M QPSK 50%RB#0	0.099	0.051	0.05	18.99	22.50	0.222	Battery 1#	Yes
Back Side	10mm	20050/1720	20M QPSK 50%RB#0	0.154	0.098	-0.04	18.99	22.50	0.346	Battery 1#	Yes
Left Side	10mm	20050/1720	20M QPSK 50%RB#0	0.127	0.058	-0.11	18.99	22.50	0.285	Battery 1#	Yes
Right Side	10mm	20050/1720	20M QPSK 50%RB#0	0.013	0.008	-0.17	18.99	22.50	0.028	Battery 1#	Yes
Top Side	10mm	20050/1720	20M QPSK 50%RB#0	0.065	0.038	-0.12	18.99	22.50	0.145	Battery 1#	Yes
Back Side	10mm	20300/1745	20M QPSK 1RB#99	0.174	0.112	-0.11	19.15	22.50	0.376	Battery 2#	Yes
Back Side	10mm	20300/1745	20M QPSK 1RB#99	0.174	0.111	0.05	19.15	22.50	0.376	Battery 3#	Yes

Table 193: Product Specific 10-g SAR test reduction evaluation of LTE Band IV

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.8 SAR measurement Result of LTE Band V(second antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	20525/836.5	10M QPSK 1RB#0	0.690	0.374	-0.07	20.60	21.00	0.757	Battery 1#	/
Left tilt	/	20525/836.5	10M QPSK 1RB#0	0.493	0.258	-0.06	20.60	21.00	0.541	Battery 1#	/
Right touch	/	20525/836.5	10M QPSK 1RB#49	0.528	0.302	-0.19	19.61	20.00	0.578	Battery 1#	/
Right tilt	/	20525/836.5	10M QPSK 1RB#49	0.451	0.241	-0.02	19.61	20.00	0.493	Battery 1#	/
Left touch	/	20600/844	10M QPSK 50%RB#25	0.691	0.375	-0.18	20.58	21.00	0.761	Battery 1#	Yes
Left tilt	/	20600/844	10M QPSK 50%RB#25	0.486	0.258	-0.07	20.58	21.00	0.535	Battery 1#	/
Right touch	/	20450/829	10M QPSK 50%RB#25	0.525	0.302	-0.17	19.61	20.00	0.574	Battery 1#	/
Right tilt	/	20450/829	10M QPSK 50%RB#25	0.464	0.242	-0.08	19.61	20.00	0.508	Battery 1#	/
Left touch	/	20600/844	10M QPSK 50%RB#25	0.645	0.353	-0.05	20.58	21.00	0.710	Battery 2#	/
Left touch	/	20600/844	10M QPSK 50%RB#25	0.629	0.344	-0.04	20.58	21.00	0.693	Battery 3#	/
Left touch	/	20450/829	10M QPSK 50%RB#25	0.656	0.359	-0.07	20.56	21.00	0.726	Battery 1#	/
Left touch	/	20525/836.5	10M QPSK 50%RB#25	0.650	0.356	-0.03	20.58	21.00	0.716	Battery 1#	/
Left touch	/	PCC 20450/829	10M QPSK 1RB#49	0.618	0.330	-0.130	20.70	21.50	0.743	Battery 1#	/
	/	SCC 20549/838.9	10M QPSK 1RB#0								
Additional SAR test for Simultaneous Transmission											
Left touch	/	20450/829	10M QPSK 1RB#49	0.359	0.194	-0.18	17.61	18.00	0.393	Battery 1#	/
Left tilt	/	20450/829	10M QPSK 1RB#49	0.274	0.114	0.06	17.61	18.00	0.300	Battery 1#	/
Left touch	/	20450/829	10M QPSK 50%RB#25	0.361	0.195	-0.01	17.56	18.00	0.399	Battery 1#	/
Left tilt	/	20450/829	10M QPSK 50%RB#25	0.273	0.143	-0.02	17.56	18.00	0.302	Battery 1#	/

Table 194: Head SAR test results of LTE Band V

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	20450/829	10M QPSK 1RB#49	0.293	0.208	-0.16	24.11	24.50	0.321	Battery 1#	/
Back Side	15mm	20450/829	10M QPSK 1RB#49	0.300	0.214	0.01	24.11	24.50	0.328	Battery 1#	/
Front Side	15mm	20600/844	10M QPSK 50%RB#0	0.207	0.146	-0.07	22.66	23.50	0.251	Battery 1#	/
Back Side	15mm	20600/844	10M QPSK 50%RB#0	0.214	0.152	0.00	22.66	23.50	0.260	Battery 1#	/
Back Side	15mm	20450/829	10M QPSK 1RB#49	0.301	0.214	-0.02	24.11	24.50	0.329	Battery 2#	/
Back Side	15mm	20450/829	10M QPSK 1RB#49	0.303	0.215	-0.03	24.11	24.50	0.331	Battery 3#	/
Back Side	15mm	PCC 20476/831.6	10M QPSK 1RB#49	0.309	0.214	-0.04	23.45	25.00	0.442	Battery 1#	Yes
		SCC 20575/841.5	10M QPSK 1RB#0								

Table 195: Body-Worn SAR test results of LTE Band V

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	20450/829	10M QPSK 1RB#49	0.513	0.301	0.09	21.15	21.50	0.556	Battery 1#	/
Back Side	10mm	20450/829	10M QPSK 1RB#49	0.539	0.322	0.05	21.15	21.50	0.584	Battery 1#	Yes
Left Side	10mm	20450/829	10M QPSK 1RB#49	0.251	0.172	-0.03	21.15	21.50	0.272	Battery 1#	/
Right Side	10mm	20450/829	10M QPSK 1RB#49	0.040	0.024	0.02	21.15	21.50	0.043	Battery 1#	/
Top Side	10mm	20450/829	10M QPSK 1RB#49	0.280	0.146	-0.10	21.15	21.50	0.303	Battery 1#	/
Front Side	10mm	20600/844	10M QPSK 50%RB#0	0.378	0.222	-0.02	21.14	21.50	0.411	Battery 1#	/
Back Side	10mm	20600/844	10M QPSK 50%RB#0	0.398	0.236	-0.07	21.14	21.50	0.432	Battery 1#	/
Left Side	10mm	20600/844	10M QPSK 50%RB#0	0.179	0.122	-0.06	21.14	21.50	0.194	Battery 1#	/
Right Side	10mm	20600/844	10M QPSK 50%RB#0	0.028	0.017	-0.14	21.14	21.50	0.030	Battery 1#	/
Top Side	10mm	20600/844	10M QPSK 50%RB#0	0.204	0.107	-0.05	21.14	21.50	0.222	Battery 1#	/
Back Side	10mm	20450/829	10M QPSK 1RB#49	0.473	0.284	-0.14	21.15	21.50	0.513	Battery 2#	/
Back Side	10mm	20450/829	10M QPSK 1RB#49	0.465	0.281	0.09	21.15	21.50	0.504	Battery 3#	/
Back Side	10mm	PCC 20476/831.6	10M QPSK 1RB#49	0.285	0.173	-0.03	20.52	22.00	0.401	Battery 1#	/
		SCC 20575/841.5	10M QPSK 1RB#0								

Table 196: Hotspot SAR test results of LTE Band V

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	20450/829	10M QPSK 1RB#49	0.513	0.301	0.09	21.15	24.50	1.109	Battery 1#	Yes
Back Side	10mm	20450/829	10M QPSK 1RB#49	0.539	0.322	0.05	21.15	24.50	1.166	Battery 1#	Yes
Left Side	10mm	20450/829	10M QPSK 1RB#49	0.251	0.172	-0.03	21.15	24.50	0.543	Battery 1#	Yes
Right Side	10mm	20450/829	10M QPSK 1RB#49	0.040	0.024	0.02	21.15	24.50	0.085	Battery 1#	Yes
Top Side	10mm	20450/829	10M QPSK 1RB#49	0.280	0.146	-0.10	21.15	24.50	0.606	Battery 1#	Yes
Front Side	10mm	20600/844	10M QPSK 50%RB#0	0.378	0.222	-0.02	21.14	24.50	0.819	Battery 1#	Yes
Back Side	10mm	20600/844	10M QPSK 50%RB#0	0.398	0.236	-0.07	21.14	24.50	0.863	Battery 1#	Yes
Left Side	10mm	20600/844	10M QPSK 50%RB#0	0.179	0.122	-0.06	21.14	24.50	0.388	Battery 1#	Yes
Right Side	10mm	20600/844	10M QPSK 50%RB#0	0.028	0.017	-0.14	21.14	24.50	0.060	Battery 1#	Yes
Top Side	10mm	20600/844	10M QPSK 50%RB#0	0.204	0.107	-0.05	21.14	24.50	0.442	Battery 1#	Yes
Back Side	10mm	20450/829	10M QPSK 1RB#49	0.473	0.284	-0.14	21.15	24.50	1.023	Battery 2#	Yes
Back Side	10mm	20450/829	10M QPSK 1RB#49	0.465	0.281	0.09	21.15	24.50	1.006	Battery 3#	Yes
Back Side	10mm	PCC 20476/831.6	10M QPSK 1RB#49	0.285	0.173	-0.03	20.52	25.00	0.800	Battery 1#	Yes
		SCC 20575/841.5	10M QPSK 1RB#0								

Table 197: Product Specific 10-g SAR test reduction evaluation of LTE Band V

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.9 SAR measurement Result of LTE Band VII(second antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	21350/2560	20M QPSK 1RB#99	0.757	0.389	-0.01	22.61	23.50	0.929	Battery 1#	Yes
Left touch	/	20850/2510	20M QPSK 1RB#99	0.662	0.338	-0.01	22.61	23.50	0.813	Battery 1#	/
Left touch	/	21100/2535	20M QPSK 1RB#99	0.674	0.344	-0.01	22.60	23.50	0.829	Battery 1#	/
Left tilt	/	21350/2560	20M QPSK 1RB#99	0.693	0.343	-0.01	22.61	23.50	0.851	Battery 1#	/
Left tilt	/	20850/2510	20M QPSK 1RB#99	0.585	0.296	-0.01	22.61	23.50	0.718	Battery 1#	/
Left tilt	/	21100/2535	20M QPSK 1RB#99	0.594	0.301	-0.01	22.60	23.50	0.731	Battery 1#	/
Right touch	/	21350/2560	20M QPSK 1RB#99	0.567	0.240	-0.03	15.66	16.50	0.688	Battery 1#	/
Right tilt	/	21350/2560	20M QPSK 1RB#99	0.402	0.180	-0.04	15.66	16.50	0.488	Battery 1#	/
Left touch	/	21100/2535	20M QPSK 50%RB#50	0.519	0.267	-0.10	21.44	22.50	0.662	Battery 1#	/
Left tilt	/	21100/2535	20M QPSK 50%RB#50	0.457	0.231	-0.01	21.44	22.50	0.583	Battery 1#	/
Right touch	/	21100/2535	20M QPSK 50%RB#0	0.530	0.230	0.00	15.38	16.50	0.686	Battery 1#	/
Right tilt	/	21100/2535	20M QPSK 50%RB#0	0.410	0.186	-0.04	15.38	16.50	0.531	Battery 1#	/
Left touch	/	21350/2560	20M QPSK 100%RB#0	0.507	0.260	-0.11	21.44	22.50	0.647	Battery 1#	/
Left tilt	/	21350/2560	20M QPSK 100%RB#0	0.480	0.229	-0.04	21.44	22.50	0.613	Battery 1#	/
Left touch	/	21350/2560	20M QPSK 1RB#99	0.680	0.348	-0.02	22.61	23.50	0.835	Battery 2#	/
Left touch	/	21350/2560	20M QPSK 1RB#99	0.656	0.340	-0.03	22.61	23.50	0.805	Battery 3#	/
Additional SAR test for Simultaneous Transmission											
Left touch	/	21350/2560	20M QPSK 1RB#99	0.294	0.153	0.03	19.71	20.50	0.353	Battery 1#	/
Left tilt	/	21350/2560	20M QPSK 1RB#99	0.322	0.158	-0.03	19.71	20.50	0.386	Battery 1#	/
Left touch	/	21350/2560	20M QPSK 50%RB#0	0.298	0.156	-0.06	19.43	20.50	0.381	Battery 1#	/
Left tilt	/	21350/2560	20M QPSK 50%RB#0	0.331	0.163	-0.06	19.43	20.50	0.423	Battery 1#	/

Table 198: Head SAR test results of LTE Band VII

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	21350/2560	20M QPSK 1RB#99	0.085	0.041	-0.13	20.72	21.50	0.101	Battery 1#	Yes
Back Side	15mm	21350/2560	20M QPSK 1RB#99	0.080	0.038	-0.19	20.72	21.50	0.096	Battery 1#	/
Front Side	15mm	21350/2560	20M QPSK 50%RB#0	0.069	0.034	0.06	20.47	21.50	0.087	Battery 1#	/
Back Side	15mm	21350/2560	20M QPSK 50%RB#0	0.077	0.039	0.10	20.47	21.50	0.098	Battery 1#	/
Front Side	15mm	21350/2560	20M QPSK 1RB#99	0.071	0.035	-0.12	20.72	21.50	0.085	Battery 2#	/
Front Side	15mm	21350/2560	20M QPSK 1RB#99	0.064	0.031	-0.10	20.72	21.50	0.076	Battery 3#	/

Table 199: Body-Worn SAR test results of LTE Band VII

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	21350/2560	20M QPSK 1RB#99	0.164	0.077	-0.09	17.71	18.50	0.197	Battery 1#	/
Back Side	10mm	21350/2560	20M QPSK 1RB#99	0.207	0.099	0.04	17.71	18.50	0.248	Battery 1#	/
Left Side	10mm	21350/2560	20M QPSK 1RB#99	0.156	0.074	-0.03	17.71	18.50	0.187	Battery 1#	/
Right Side	10mm	21350/2560	20M QPSK 1RB#99	0.017	0.010	-0.18	17.71	18.50	0.021	Battery 1#	/
Top Side	10mm	21350/2560	20M QPSK 1RB#99	0.271	0.124	0.05	17.71	18.50	0.325	Battery 1#	/
Front Side	10mm	21350/2560	20M QPSK 50%RB#0	0.162	0.078	0.18	17.49	18.50	0.204	Battery 1#	/
Back Side	10mm	21350/2560	20M QPSK 50%RB#0	0.199	0.096	0.08	17.49	18.50	0.251	Battery 1#	/
Left Side	10mm	21350/2560	20M QPSK 50%RB#0	0.074	0.035	-0.11	17.49	18.50	0.094	Battery 1#	/
Right Side	10mm	21350/2560	20M QPSK 50%RB#0	0.017	0.009	0.06	17.49	18.50	0.021	Battery 1#	/
Top Side	10mm	21350/2560	20M QPSK 50%RB#0	0.340	0.169	0.09	17.49	18.50	0.429	Battery 1#	Yes
Top Side	10mm	21350/2560	20M QPSK 50%RB#0	0.260	0.123	0.05	17.49	18.50	0.328	Battery 2#	/
Top Side	10mm	21350/2560	20M QPSK 50%RB#0	0.268	0.127	0.08	17.49	18.50	0.338	Battery 3#	/

Table 200: Hotspot SAR test results of LTE Band VII

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	21350/2560	20M QPSK 1RB#99	0.164	0.077	-0.09	17.71	21.50	0.393	Battery 1#	Yes
Back Side	10mm	21350/2560	20M QPSK 1RB#99	0.207	0.099	0.04	17.71	21.50	0.495	Battery 1#	Yes
Left Side	10mm	21350/2560	20M QPSK 1RB#99	0.156	0.074	-0.03	17.71	21.50	0.373	Battery 1#	Yes
Right Side	10mm	21350/2560	20M QPSK 1RB#99	0.017	0.010	-0.18	17.71	21.50	0.041	Battery 1#	Yes
Top Side	10mm	21350/2560	20M QPSK 1RB#99	0.271	0.124	0.05	17.71	21.50	0.649	Battery 1#	Yes
Front Side	10mm	21350/2560	20M QPSK 50%RB#0	0.162	0.078	0.18	17.49	21.50	0.408	Battery 1#	Yes
Back Side	10mm	21350/2560	20M QPSK 50%RB#0	0.199	0.096	0.08	17.49	21.50	0.501	Battery 1#	Yes
Left Side	10mm	21350/2560	20M QPSK 50%RB#0	0.074	0.035	-0.11	17.49	21.50	0.187	Battery 1#	Yes
Right Side	10mm	21350/2560	20M QPSK 50%RB#0	0.017	0.009	0.06	17.49	21.50	0.043	Battery 1#	Yes
Top Side	10mm	21350/2560	20M QPSK 50%RB#0	0.340	0.169	0.09	17.49	21.50	0.856	Battery 1#	Yes
Top Side	10mm	21350/2560	20M QPSK 50%RB#0	0.260	0.123	0.05	17.49	21.50	0.655	Battery 2#	Yes
Top Side	10mm	21350/2560	20M QPSK 50%RB#0	0.268	0.127	0.08	17.49	21.50	0.675	Battery 3#	Yes

Table 201:Product Specific 10-g SAR test reduction evaluation of LTE Band VII

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.10 SAR measurement Result of LTE Band XII(second antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	23130/711	10M QPSK 1RB#25	0.587	0.321	0.00	22.66	23.00	0.635	Battery 1#	/
Left tilt	/	23130/711	10M QPSK 1RB#25	0.457	0.235	-0.13	22.66	23.00	0.494	Battery 1#	/
Right touch	/	23130/711	10M QPSK 1RB#49	0.533	0.305	-0.01	21.96	22.50	0.604	Battery 1#	/
Right tilt	/	23130/711	10M QPSK 1RB#49	0.386	0.204	-0.02	21.96	22.50	0.437	Battery 1#	/
Left touch	/	23130/711	10M QPSK 50%RB#0	0.598	0.322	-0.09	22.35	23.00	0.695	Battery 1#	/
Left tilt	/	23130/711	10M QPSK 50%RB#0	0.460	0.237	-0.02	22.35	23.00	0.534	Battery 1#	/
Right touch	/	23060/704	10M QPSK 50%RB#0	0.519	0.297	-0.07	22.39	22.50	0.532	Battery 1#	/
Right tilt	/	23060/704	10M QPSK 50%RB#0	0.384	0.199	0.01	22.39	22.50	0.394	Battery 1#	/
Left touch	/	23130/711	10M QPSK 50%RB#0	0.598	0.322	-0.15	22.35	23.00	0.695	Battery 2#	/
Left touch	/	23130/711	10M QPSK 50%RB#0	0.601	0.324	-0.01	22.35	23.00	0.698	Battery 3#	/
Left touch	/	23060/704	10M QPSK 50%RB#25	0.594	0.324	-0.02	21.88	23.00	0.769	Battery 3#	/
Left touch	/	23095/707.5	10M QPSK 50%RB#25	0.601	0.326	-0.04	22.31	23.00	0.704	Battery 3#	Yes
Additional SAR test for Simultaneous Transmission											
Left touch	/	23060/704	10M QPSK 1RB#49	0.297	0.166	-0.02	18.87	20.00	0.385	Battery 3#	/
Left tilt	/	23060/704	10M QPSK 1RB#49	0.219	0.119	-0.03	18.87	20.00	0.284	Battery 3#	/
Left touch	/	23060/704	10M QPSK 50%RB#25	0.297	0.166	-0.07	18.85	20.00	0.387	Battery 3#	/
Left tilt	/	23060/704	10M QPSK 50%RB#25	0.219	0.119	-0.04	18.85	20.00	0.285	Battery 3#	/

Table 202: Head SAR test results of LTE Band XII

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	23130/711	10M QPSK 1RB#49	0.107	0.077	-0.14	23.48	24.50	0.135	Battery 1#	/
Back Side	15mm	23130/711	10M QPSK 1RB#49	0.103	0.075	0.02	23.48	24.50	0.130	Battery 1#	/
Front Side	15mm	23060/704	10M QPSK 50%RB#25	0.092	0.068	-0.01	22.39	23.50	0.119	Battery 1#	/
Back Side	15mm	23060/704	10M QPSK 50%RB#25	0.091	0.066	-0.05	22.39	23.50	0.118	Battery 1#	/
Front Side	15mm	23130/711	10M QPSK 1RB#49	0.110	0.078	0.05	23.48	24.50	0.139	Battery 2#	Yes
Front Side	15mm	23130/711	10M QPSK 1RB#49	0.109	0.078	0.00	23.48	24.50	0.138	Battery 3#	/

Table 203: Body-Worn SAR test results of LTE Band XII

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	23060/704	10M QPSK 1RB#25	0.069	0.040	-0.01	20.42	21.50	0.089	Battery 1#	/
Back Side	10mm	23060/704	10M QPSK 1RB#25	0.085	0.051	-0.08	20.42	21.50	0.109	Battery 1#	/
Left Side	10mm	23060/704	10M QPSK 1RB#25	0.065	0.046	-0.08	20.42	21.50	0.084	Battery 1#	/
Right Side	10mm	23060/704	10M QPSK 1RB#25	0.019	0.013	0.19	20.42	21.50	0.024	Battery 1#	/
Top Side	10mm	23060/704	10M QPSK 1RB#25	0.062	0.032	0.16	20.42	21.50	0.080	Battery 1#	/
Front Side	10mm	23060/704	10M QPSK 50%RB#25	0.070	0.051	-0.03	20.40	21.50	0.091	Battery 1#	/
Back Side	10mm	23060/704	10M QPSK 50%RB#25	0.087	0.051	-0.02	20.40	21.50	0.112	Battery 1#	/
Left Side	10mm	23060/704	10M QPSK 50%RB#25	0.067	0.047	-0.03	20.40	21.50	0.086	Battery 1#	/
Right Side	10mm	23060/704	10M QPSK 50%RB#25	0.018	0.012	-0.10	20.40	21.50	0.024	Battery 1#	/
Top Side	10mm	23060/704	10M QPSK 50%RB#25	0.065	0.033	-0.12	20.40	21.50	0.083	Battery 1#	/
Back Side	10mm	23060/704	10M QPSK 50%RB#25	0.087	0.052	0.04	20.40	21.50	0.112	Battery 2#	/
Back Side	10mm	23060/704	10M QPSK 50%RB#25	0.099	0.058	-0.04	20.40	21.50	0.127	Battery 3#	Yes

Table 204: Hotspot SAR test results of LTE Band XII

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	23060/704	10M QPSK 1RB#25	0.069	0.040	-0.01	20.42	24.50	0.177	Battery 1#	Yes
Back Side	10mm	23060/704	10M QPSK 1RB#25	0.085	0.051	-0.08	20.42	24.50	0.217	Battery 1#	Yes
Left Side	10mm	23060/704	10M QPSK 1RB#25	0.065	0.046	-0.08	20.42	24.50	0.167	Battery 1#	Yes
Right Side	10mm	23060/704	10M QPSK 1RB#25	0.019	0.013	0.19	20.42	24.50	0.049	Battery 1#	Yes
Top Side	10mm	23060/704	10M QPSK 1RB#25	0.062	0.032	0.16	20.42	24.50	0.160	Battery 1#	Yes
Front Side	10mm	23060/704	10M QPSK 50%RB#25	0.070	0.051	-0.03	20.40	23.50	0.144	Battery 1#	Yes
Back Side	10mm	23060/704	10M QPSK 50%RB#25	0.087	0.051	-0.02	20.40	23.50	0.177	Battery 1#	Yes
Left Side	10mm	23060/704	10M QPSK 50%RB#25	0.067	0.047	-0.03	20.40	23.50	0.137	Battery 1#	Yes
Right Side	10mm	23060/704	10M QPSK 50%RB#25	0.018	0.012	-0.10	20.40	23.50	0.037	Battery 1#	Yes
Top Side	10mm	23060/704	10M QPSK 50%RB#25	0.065	0.033	-0.12	20.40	23.50	0.132	Battery 1#	Yes
Back Side	10mm	23060/704	10M QPSK 50%RB#25	0.087	0.052	0.04	20.40	23.50	0.178	Battery 2#	Yes
Back Side	10mm	23060/704	10M QPSK 50%RB#25	0.099	0.058	-0.04	20.40	23.50	0.201	Battery 3#	Yes

Table 205: Product Specific 10-g SAR test reduction evaluation of LTE Band XII

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg. The test lab still chooses to perform the product specific 10-g SAR for the bottom side in order to evaluate the UL inter-band LTE CA SAR compliance(Refer to section 7.2.29 for details).

Product Specific 10-g SAR	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 10-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Additional Product Specific 10-g SAR for evaluation of UL CA_2A-12A											
Bottom Side	0mm	23130/711	10M QPSK 1RB#49	1.430	0.511	0.15	23.48	24.50	0.646	Battery 1#	Yes

Table 206: Product Specific 10-g SAR test results of LTE Band XII

7.2.11 SAR measurement Result of LTE Band XIV(second antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	23330/795.5	10M QPSK 1RB#0	0.692	0.380	-0.13	21.26	21.50	0.731	Battery 1#	Yes
Left tilt	/	23330/795.5	10M QPSK 1RB#0	0.543	0.286	0.06	21.26	21.50	0.574	Battery 1#	/
Right touch	/	23330/795.5	10M QPSK 1RB#0	0.601	0.346	0.02	20.25	20.50	0.637	Battery 1#	/
Right tilt	/	23330/795.5	10M QPSK 1RB#0	0.590	0.272	0.04	20.25	20.50	0.625	Battery 1#	/
Left touch	/	23330/795.5	10M QPSK 50%RB#0	0.691	0.378	-0.10	21.26	21.50	0.730	Battery 1#	/
Left tilt	/	23330/795.5	10M QPSK 50%RB#0	0.548	0.287	0.02	21.26	21.50	0.579	Battery 1#	/
Right touch	/	23330/795.5	10M QPSK 50%RB#0	0.600	0.344	-0.02	20.34	20.50	0.623	Battery 1#	/
Right tilt	/	23330/795.5	10M QPSK 50%RB#0	0.543	0.270	-0.02	20.34	20.50	0.563	Battery 1#	/
Left touch	/	23330/795.5	10M QPSK 1RB#0	0.585	0.311	0.15	21.26	21.50	0.618	Battery 2#	/
Left touch	/	23330/795.5	10M QPSK 1RB#0	0.668	0.357	-0.15	21.26	21.50	0.706	Battery 3#	/
Additional SAR test for Simultaneous Transmission											
Left touch	/	23330/795.5	10M QPSK 1RB#0	0.349	0.191	0.00	18.24	18.50	0.371	Battery 1#	/
Left tilt	/	23330/795.5	10M QPSK 1RB#0	0.247	0.131	0.09	18.24	18.50	0.262	Battery 1#	/
Left touch	/	23330/795.5	10M QPSK 50%RB#0	0.351	0.192	0.01	18.26	18.50	0.371	Battery 1#	/
Left tilt	/	23330/795.5	10M QPSK 50%RB#0	0.248	0.131	0.10	18.26	18.50	0.262	Battery 1#	/

Table 207: Head SAR test results of LTE Band XIV

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	23330/795.5	10M QPSK 1RB#0	0.208	0.148	0.03	24.33	24.50	0.216	Battery 1#	/
Back Side	15mm	23330/795.5	10M QPSK 1RB#0	0.208	0.149	-0.01	24.33	24.50	0.216	Battery 1#	Yes
Front Side	15mm	23330/795.5	10M QPSK 50%RB#25	0.141	0.101	-0.13	22.30	23.50	0.186	Battery 1#	/
Back Side	15mm	23330/795.5	10M QPSK 50%RB#25	0.142	0.101	0.01	22.30	23.50	0.187	Battery 1#	/
Back Side	15mm	23330/795.5	10M QPSK 1RB#0	0.204	0.146	0.01	24.33	24.50	0.212	Battery 2#	/
Back Side	15mm	23330/795.5	10M QPSK 1RB#0	0.204	0.146	-0.02	24.33	24.50	0.212	Battery 3#	/

Table 208: Body-Worn SAR test results of LTE Band XIV

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	23330/795.5	10M QPSK 1RB#0	0.168	0.096	0.02	21.30	21.50	0.176	Battery 1#	/
Back Side	10mm	23330/795.5	10M QPSK 1RB#0	0.167	0.097	0.01	21.30	21.50	0.175	Battery 1#	/
Left Side	10mm	23330/795.5	10M QPSK 1RB#0	0.098	0.067	0.02	21.30	21.50	0.103	Battery 1#	/
Right Side	10mm	23330/795.5	10M QPSK 1RB#0	0.024	0.016	-0.01	21.30	21.50	0.025	Battery 1#	/
Top Side	10mm	23330/795.5	10M QPSK 1RB#0	0.110	0.055	-0.08	21.30	21.50	0.115	Battery 1#	/
Front Side	10mm	23330/795.5	10M QPSK 50%RB#0	0.172	0.098	0.07	21.32	21.50	0.179	Battery 1#	Yes
Back Side	10mm	23330/795.5	10M QPSK 50%RB#0	0.169	0.098	0.02	21.32	21.50	0.176	Battery 1#	/
Left Side	10mm	23330/795.5	10M QPSK 50%RB#0	0.098	0.067	-0.03	21.32	21.50	0.102	Battery 1#	/
Right Side	10mm	23330/795.5	10M QPSK 50%RB#0	0.025	0.017	0.03	21.32	21.50	0.026	Battery 1#	/
Top Side	10mm	23330/795.5	10M QPSK 50%RB#0	0.113	0.056	0.13	21.32	21.50	0.118	Battery 1#	/
Front Side	10mm	23330/795.5	10M QPSK 50%RB#0	0.169	0.096	0.06	21.32	21.50	0.176	Battery 2#	/
Front Side	10mm	23330/795.5	10M QPSK 50%RB#0	0.165	0.094	0.00	21.32	21.50	0.172	Battery 3#	/

Table 209: Hotspot SAR test results of LTE Band XIV

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	23330/795.5	10M QPSK 1RB#0	0.168	0.096	0.02	21.30	24.50	0.351	Battery 1#	Yes
Back Side	10mm	23330/795.5	10M QPSK 1RB#0	0.167	0.097	0.01	21.30	24.50	0.349	Battery 1#	Yes
Left Side	10mm	23330/795.5	10M QPSK 1RB#0	0.098	0.067	0.02	21.30	24.50	0.205	Battery 1#	Yes
Right Side	10mm	23330/795.5	10M QPSK 1RB#0	0.024	0.016	-0.01	21.30	24.50	0.051	Battery 1#	Yes
Top Side	10mm	23330/795.5	10M QPSK 1RB#0	0.110	0.055	-0.08	21.30	24.50	0.230	Battery 1#	Yes
Front Side	10mm	23330/795.5	10M QPSK 50%RB#0	0.172	0.098	0.07	21.32	23.50	0.284	Battery 1#	Yes
Back Side	10mm	23330/795.5	10M QPSK 50%RB#0	0.169	0.098	0.02	21.32	23.50	0.279	Battery 1#	Yes
Left Side	10mm	23330/795.5	10M QPSK 50%RB#0	0.098	0.067	-0.03	21.32	23.50	0.161	Battery 1#	Yes
Right Side	10mm	23330/795.5	10M QPSK 50%RB#0	0.025	0.017	0.03	21.32	23.50	0.041	Battery 1#	Yes
Top Side	10mm	23330/795.5	10M QPSK 50%RB#0	0.113	0.056	0.13	21.32	23.50	0.187	Battery 1#	Yes
Front Side	10mm	23330/795.5	10M QPSK 50%RB#0	0.169	0.096	0.06	21.32	23.50	0.279	Battery 2#	Yes
Front Side	10mm	23330/795.5	10M QPSK 50%RB#0	0.165	0.094	0.00	21.32	23.50	0.273	Battery 3#	Yes

Table 210: Product Specific 10-g SAR test reduction evaluation of LTE Band XIV

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.12 SAR measurement Result of LTE Band XVIII(second antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	23925/822.5	15M QPSK 1RB#0	0.690	0.375	-0.09	20.08	21.00	0.853	Battery 1#	/
Left tilt	/	23925/822.5	15M QPSK 1RB#0	0.531	0.276	-0.01	20.08	21.00	0.656	Battery 1#	/
Right touch	/	23925/822.5	15M QPSK 1RB#0	0.616	0.340	0.00	19.02	20.00	0.772	Battery 1#	/
Right tilt	/	23925/822.5	15M QPSK 1RB#0	0.572	0.273	0.05	19.02	20.00	0.717	Battery 1#	/
Left touch	/	23925/822.5	15M QPSK 50%RB#0	0.702	0.379	-0.05	20.06	21.00	0.872	Battery 1#	Yes
Left tilt	/	23925/822.5	15M QPSK 50%RB#0	0.535	0.279	0.02	20.06	21.00	0.664	Battery 1#	/
Right touch	/	23925/822.5	15M QPSK 50%RB#39	0.630	0.344	0.02	19.10	20.00	0.775	Battery 1#	/
Right tilt	/	23925/822.5	15M QPSK 50%RB#39	0.578	0.275	0.08	19.10	20.00	0.711	Battery 1#	/
Left touch	/	23925/822.5	15M QPSK 100%RB#0	0.691	0.377	-0.10	20.02	21.00	0.866	Battery 1#	/
Left touch	/	23925/822.5	15M QPSK 50%RB#0	0.634	0.342	-0.04	20.06	21.00	0.787	Battery 2#	/
Left touch	/	23925/822.5	15M QPSK 50%RB#0	0.674	0.367	0.00	20.06	21.00	0.837	Battery 3#	/
Additional SAR test for Simultaneous Transmission											
Left touch	/	23925/822.5	15M QPSK 1RB#0	0.362	0.197	0.19	17.03	18.00	0.453	Battery 1#	/
Left tilt	/	23925/822.5	15M QPSK 1RB#0	0.268	0.138	0.06	17.03	18.00	0.335	Battery 1#	/
Left touch	/	23925/822.5	15M QPSK 50%RB#0	0.362	0.197	0.06	17.02	18.00	0.454	Battery 1#	/
Left tilt	/	23925/822.5	15M QPSK 50%RB#0	0.271	0.139	0.04	17.02	18.00	0.340	Battery 1#	/

Table 211: Head SAR test results of LTE Band XVIII

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	23925/822.5	15M QPSK 1RB#0	0.233	0.164	0.00	23.06	24.00	0.289	Battery 1#	/
Back Side	15mm	23925/822.5	15M QPSK 1RB#0	0.247	0.172	-0.02	23.06	24.00	0.307	Battery 1#	Yes
Front Side	15mm	23925/822.5	15M QPSK 50%RB#39	0.205	0.144	-0.04	22.10	23.00	0.252	Battery 1#	/
Back Side	15mm	23925/822.5	15M QPSK 50%RB#39	0.218	0.152	-0.05	22.10	23.00	0.268	Battery 1#	/
Back Side	15mm	23925/822.5	15M QPSK 1RB#0	0.235	0.166	-0.13	23.06	24.00	0.292	Battery 2#	/
Back Side	15mm	23925/822.5	15M QPSK 1RB#0	0.239	0.168	-0.06	23.06	24.00	0.297	Battery 3#	/

Table 212: Body-Worn SAR test results of LTE Band XVIII

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	23925/822.5	15M QPSK 1RB#0	0.210	0.121	-0.07	20.06	21.00	0.261	Battery 1#	/
Back Side	10mm	23925/822.5	15M QPSK 1RB#0	0.194	0.114	0.04	20.06	21.00	0.241	Battery 1#	/
Left Side	10mm	23925/822.5	15M QPSK 1RB#0	0.119	0.082	0.04	20.06	21.00	0.148	Battery 1#	/
Right Side	10mm	23925/822.5	15M QPSK 1RB#0	0.018	0.011	0.12	20.06	21.00	0.022	Battery 1#	/
Top Side	10mm	23925/822.5	15M QPSK 1RB#0	0.144	0.072	0.01	20.06	21.00	0.179	Battery 1#	/
Front Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.239	0.138	0.05	20.11	21.00	0.293	Battery 1#	/
Back Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.208	0.121	-0.04	20.11	21.00	0.255	Battery 1#	/
Left Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.125	0.086	0.02	20.11	21.00	0.153	Battery 1#	/
Right Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.018	0.010	0.14	20.11	21.00	0.022	Battery 1#	/
Top Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.154	0.078	0.03	20.11	21.00	0.189	Battery 1#	/
Front Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.294	0.169	0.06	20.11	21.00	0.361	Battery 2#	Yes
Front Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.289	0.167	0.01	20.11	21.00	0.355	Battery 3#	/

Table 213: Hotspot SAR test results of LTE Band XVIII

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	23925/822.5	15M QPSK 1RB#0	0.210	0.121	-0.07	20.06	24.00	0.520	Battery 1#	Yes
Back Side	10mm	23925/822.5	15M QPSK 1RB#0	0.194	0.114	0.04	20.06	24.00	0.481	Battery 1#	Yes
Left Side	10mm	23925/822.5	15M QPSK 1RB#0	0.119	0.082	0.04	20.06	24.00	0.295	Battery 1#	Yes
Right Side	10mm	23925/822.5	15M QPSK 1RB#0	0.018	0.011	0.12	20.06	24.00	0.045	Battery 1#	Yes
Top Side	10mm	23925/822.5	15M QPSK 1RB#0	0.144	0.072	0.01	20.06	24.00	0.357	Battery 1#	Yes
Front Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.239	0.138	0.05	20.11	23.00	0.465	Battery 1#	Yes
Back Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.208	0.121	-0.04	20.11	23.00	0.405	Battery 1#	Yes
Left Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.125	0.086	0.02	20.11	23.00	0.243	Battery 1#	Yes
Right Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.018	0.010	0.14	20.11	23.00	0.035	Battery 1#	Yes
Top Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.154	0.078	0.03	20.11	23.00	0.300	Battery 1#	Yes
Front Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.294	0.169	0.06	20.11	23.00	0.572	Battery 2#	Yes
Front Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.289	0.167	0.01	20.11	23.00	0.562	Battery 3#	Yes

Table 214:Product Specific 10-g SAR test reduction evaluation of LTE Band XVIII

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.13 SAR measurement Result of LTE Band XXX(second antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	27710/2310	10M QPSK 1RB#25	0.715	0.373	0.05	21.72	22.00	0.763	Battery 1#	/
Left tilt	/	27710/2310	10M QPSK 1RB#25	0.778	0.401	-0.01	21.72	22.00	0.830	Battery 1#	/
Right touch	/	27710/2310	10M QPSK 1RB#25	0.438	0.213	-0.01	16.01	16.50	0.490	Battery 1#	/
Right tilt	/	27710/2310	10M QPSK 1RB#25	0.419	0.192	-0.01	16.01	16.50	0.469	Battery 1#	/
Left touch	/	27710/2310	10M QPSK 50%RB#0	0.585	0.306	0.08	21.08	22.00	0.723	Battery 1#	/
Left tilt	/	27710/2310	10M QPSK 50%RB#0	0.613	0.314	0.02	21.08	22.00	0.758	Battery 1#	/
Right touch	/	27710/2310	10M QPSK 50%RB#0	0.356	0.173	-0.02	15.36	16.50	0.463	Battery 1#	/
Right tilt	/	27710/2310	10M QPSK 50%RB#0	0.348	0.158	-0.02	15.36	16.50	0.452	Battery 1#	/
Left tilt	/	27710/2310	10M QPSK 100%RB#0	0.612	0.316	0.01	20.99	22.00	0.772	Battery 1#	/
Left tilt	/	27710/2310	10M QPSK 1RB#25	0.814	0.420	-0.07	21.72	22.00	0.868	Battery 2#	/
Left tilt	/	27710/2310	10M QPSK 1RB#25	0.933	0.485	-0.01	21.72	22.00	0.995	Battery 3#	Yes
Left tilt-Repeated	/	27710/2310	10M QPSK 1RB#25	0.875	0.448	-0.17	21.72	22.00	0.933	Battery 3#	/
Additional SAR test for Simultaneous Transmission											
Left touch	/	27710/2310	10M QPSK 1RB#25	0.389	0.203	0.02	18.57	19.00	0.429	Battery 3#	/
Left tilt	/	27710/2310	10M QPSK 1RB#25	0.433	0.224	0.02	18.57	19.00	0.478	Battery 3#	/
Left touch	/	27710/2310	10M QPSK 50%RB#25	0.295	0.154	-0.09	17.85	19.00	0.384	Battery 3#	/
Left tilt	/	27710/2310	10M QPSK 50%RB#25	0.334	0.172	0.00	17.85	19.00	0.435	Battery 3#	/

Table 215: Head SAR test results of LTE Band XXX

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	27710/2310	10M QPSK 1RB#25	0.067	0.038	-0.06	21.33	21.50	0.070	Battery 1#	/
Back Side	15mm	27710/2310	10M QPSK 1RB#25	0.088	0.051	0.17	21.33	21.50	0.091	Battery 1#	Yes
Front Side	15mm	27710/2310	10M QPSK 50%RB#0	0.060	0.034	0.14	20.52	21.50	0.075	Battery 1#	/
Back Side	15mm	27710/2310	10M QPSK 50%RB#0	0.074	0.042	0.10	20.52	21.50	0.092	Battery 1#	/
Back Side	15mm	27710/2310	10M QPSK 50%RB#0	0.073	0.041	0.17	20.52	21.50	0.091	Battery 2#	/
Back Side	15mm	27710/2310	10M QPSK 50%RB#0	0.064	0.037	-0.10	20.52	21.50	0.081	Battery 3#	/

Table 216: Body-Worn SAR test results of LTE Band XXX

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	27710/2310	10M QPSK 1RB#49	0.081	0.045	-0.12	18.24	18.50	0.086	Battery 1#	/
Back Side	10mm	27710/2310	10M QPSK 1RB#49	0.137	0.071	0.08	18.24	18.50	0.145	Battery 1#	/
Left Side	10mm	27710/2310	10M QPSK 1RB#49	0.099	0.045	0.08	18.24	18.50	0.105	Battery 1#	/
Right Side	10mm	27710/2310	10M QPSK 1RB#49	0.011	0.006	0.11	18.24	18.50	0.012	Battery 1#	/
Top Side	10mm	27710/2310	10M QPSK 1RB#49	0.086	0.044	-0.08	18.24	18.50	0.091	Battery 1#	/
Front Side	10mm	27710/2310	10M QPSK 50%RB#0	0.088	0.049	0.19	17.48	18.50	0.111	Battery 1#	/
Back Side	10mm	27710/2310	10M QPSK 50%RB#0	0.140	0.072	-0.18	17.48	18.50	0.177	Battery 1#	/
Left Side	10mm	27710/2310	10M QPSK 50%RB#0	0.100	0.045	0.16	17.48	18.50	0.126	Battery 1#	/
Right Side	10mm	27710/2310	10M QPSK 50%RB#0	0.011	0.006	-0.06	17.48	18.50	0.014	Battery 1#	/
Top Side	10mm	27710/2310	10M QPSK 50%RB#0	0.135	0.083	0.02	17.48	18.50	0.171	Battery 1#	/
Back Side	10mm	27710/2310	10M QPSK 50%RB#0	0.161	0.081	0.19	17.48	18.50	0.204	Battery 2#	/
Back Side	10mm	27710/2310	10M QPSK 50%RB#0	0.181	0.091	0.07	17.48	18.50	0.229	Battery 3#	Yes

Table 217: Hotspot SAR test results of LTE Band XXX

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	27710/2310	10M QPSK 1RB#49	0.081	0.045	-0.12	18.24	21.50	0.172	Battery 1#	Yes
Back Side	10mm	27710/2310	10M QPSK 1RB#49	0.137	0.071	0.08	18.24	21.50	0.290	Battery 1#	Yes
Left Side	10mm	27710/2310	10M QPSK 1RB#49	0.099	0.045	0.08	18.24	21.50	0.209	Battery 1#	Yes
Right Side	10mm	27710/2310	10M QPSK 1RB#49	0.011	0.006	0.11	18.24	21.50	0.024	Battery 1#	Yes
Top Side	10mm	27710/2310	10M QPSK 1RB#49	0.086	0.044	-0.08	18.24	21.50	0.182	Battery 1#	Yes
Front Side	10mm	27710/2310	10M QPSK 50%RB#0	0.088	0.049	0.19	17.48	21.50	0.222	Battery 1#	Yes
Back Side	10mm	27710/2310	10M QPSK 50%RB#0	0.140	0.072	-0.18	17.48	21.50	0.353	Battery 1#	Yes
Left Side	10mm	27710/2310	10M QPSK 50%RB#0	0.100	0.045	0.16	17.48	21.50	0.252	Battery 1#	Yes
Right Side	10mm	27710/2310	10M QPSK 50%RB#0	0.011	0.006	-0.06	17.48	21.50	0.029	Battery 1#	Yes
Top Side	10mm	27710/2310	10M QPSK 50%RB#0	0.135	0.083	0.02	17.48	21.50	0.341	Battery 1#	Yes
Back Side	10mm	27710/2310	10M QPSK 50%RB#0	0.161	0.081	0.19	17.48	21.50	0.406	Battery 2#	Yes
Back Side	10mm	27710/2310	10M QPSK 50%RB#0	0.181	0.091	0.07	17.48	21.50	0.457	Battery 3#	Yes

Table 218:Product Specific 10-g SAR test reduction evaluation of LTE Band XXX

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.14 SAR measurement Result of LTE Band LXVI(second antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	132322/1745	20M QPSK 1RB#99	0.718	0.430	0.07	20.12	20.50	0.784	Battery 1#	/
Left tilt	/	132322/1745	20M QPSK 1RB#99	0.416	0.236	0.14	20.12	20.50	0.454	Battery 1#	/
Right touch	/	132072/1720	20M QPSK 1RB#99	0.673	0.375	0.05	17.06	17.50	0.745	Battery 1#	/
Right tilt	/	132072/1720	20M QPSK 1RB#99	0.628	0.345	0.04	17.06	17.50	0.695	Battery 1#	/
Left touch	/	132322/1745	20M QPSK 50%RB#50	0.699	0.418	0.16	20.09	20.50	0.768	Battery 1#	/
Left tilt	/	132322/1745	20M QPSK 50%RB#50	0.482	0.284	-0.14	20.09	20.50	0.530	Battery 1#	/
Right touch	/	132322/1745	20M QPSK 50%RB#50	0.752	0.416	-0.05	17.06	17.50	0.832	Battery 1#	/
Right touch	/	132072/1720	20M QPSK 50%RB#50	0.745	0.416	0.01	17.05	17.50	0.826	Battery 1#	/
Right touch	/	132572/1770	20M QPSK 50%RB#0	0.779	0.441	0.00	17.04	17.50	0.866	Battery 1#	Yes
Right tilt	/	132322/1745	20M QPSK 50%RB#50	0.561	0.305	0.02	17.06	17.50	0.621	Battery 1#	/
Right touch	/	132572/1770	20M QPSK 50%RB#0	0.740	0.416	0.10	17.04	17.50	0.823	Battery 2#	/
Right touch	/	132572/1770	20M QPSK 50%RB#0	0.730	0.410	-0.13	17.04	17.50	0.812	Battery 3#	/
Right touch	/	132072/1720	20M QPSK 100%RB#0	0.634	0.359	0.04	17.00	17.50	0.711	Battery 3#	/
Additional SAR test for Simultaneous Transmission											
Left touch	/	132072/1720	20M QPSK 1RB#0	0.296	0.177	0.05	17.06	17.50	0.328	Battery 1#	/
Left tilt	/	132072/1720	20M QPSK 1RB#0	0.245	0.140	-0.09	17.06	17.50	0.271	Battery 1#	/
Left touch	/	132322/1745	20M QPSK 50%RB#50	0.328	0.196	0.18	17.06	17.50	0.363	Battery 1#	/
Left tilt	/	132322/1745	20M QPSK 50%RB#50	0.251	0.144	-0.07	17.06	17.50	0.278	Battery 1#	/

Table 219: Head SAR test results of LTE Band LXVI

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	132322/1745	20M QPSK 1RB#99	0.160	0.105	-0.07	22.16	22.50	0.173	Battery 1#	/
Back Side	15mm	132322/1745	20M QPSK 1RB#99	0.186	0.123	-0.02	22.16	22.50	0.201	Battery 1#	/
Front Side	15mm	132322/1745	20M QPSK 50%RB#50	0.150	0.098	-0.16	22.15	22.50	0.163	Battery 1#	/
Back Side	15mm	132322/1745	20M QPSK 50%RB#50	0.179	0.119	0.03	22.15	22.50	0.194	Battery 1#	/
Back Side	15mm	132322/1745	20M QPSK 1RB#99	0.194	0.131	0.00	22.16	22.50	0.210	Battery 2#	Yes
Back Side	15mm	132322/1745	20M QPSK 1RB#99	0.194	0.127	0.02	22.16	22.50	0.210	Battery 3#	/

Table 220: Body-Worn SAR test results of LTE Band LXVI

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	132322/1745	20M QPSK 1RB#50	0.138	0.083	-0.13	19.29	19.50	0.145	Battery 1#	/
Back Side	10mm	132322/1745	20M QPSK 1RB#50	0.169	0.105	-0.07	19.29	19.50	0.177	Battery 1#	Yes
Left Side	10mm	132322/1745	20M QPSK 1RB#50	0.147	0.069	0.13	19.29	19.50	0.154	Battery 1#	/
Right Side	10mm	132322/1745	20M QPSK 1RB#50	0.016	0.009	0.14	19.29	19.50	0.017	Battery 1#	/
Top Side	10mm	132322/1745	20M QPSK 1RB#50	0.071	0.041	0.09	19.29	19.50	0.074	Battery 1#	/
Front Side	10mm	132072/1720	20M QPSK 50%RB#0	0.120	0.062	-0.08	19.17	19.50	0.129	Battery 1#	/
Back Side	10mm	132072/1720	20M QPSK 50%RB#0	0.139	0.089	-0.02	19.17	19.50	0.150	Battery 1#	/
Left Side	10mm	132072/1720	20M QPSK 50%RB#0	0.106	0.057	0.11	19.17	19.50	0.114	Battery 1#	/
Right Side	10mm	132072/1720	20M QPSK 50%RB#0	0.012	0.007	-0.04	19.17	19.50	0.013	Battery 1#	/
Top Side	10mm	132072/1720	20M QPSK 50%RB#0	0.058	0.035	-0.07	19.17	19.50	0.062	Battery 1#	/
Back Side	10mm	132322/1745	20M QPSK 1RB#50	0.153	0.098	0.16	19.29	19.50	0.161	Battery 2#	/
Back Side	10mm	132322/1745	20M QPSK 1RB#50	0.150	0.097	0.05	19.29	19.50	0.157	Battery 3#	/

Table 221: Hotspot SAR test results of LTE Band LXVI

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	132322/1745	20M QPSK 1RB#50	0.138	0.083	-0.13	19.29	22.50	0.289	Battery 1#	Yes
Back Side	10mm	132322/1745	20M QPSK 1RB#50	0.169	0.105	-0.07	19.29	22.50	0.354	Battery 1#	Yes
Left Side	10mm	132322/1745	20M QPSK 1RB#50	0.147	0.069	0.13	19.29	22.50	0.308	Battery 1#	Yes
Right Side	10mm	132322/1745	20M QPSK 1RB#50	0.016	0.009	0.14	19.29	22.50	0.034	Battery 1#	Yes
Top Side	10mm	132322/1745	20M QPSK 1RB#50	0.071	0.041	0.09	19.29	22.50	0.148	Battery 1#	Yes
Front Side	10mm	132072/1720	20M QPSK 50%RB#0	0.120	0.062	-0.08	19.17	22.50	0.258	Battery 1#	Yes
Back Side	10mm	132072/1720	20M QPSK 50%RB#0	0.139	0.089	-0.02	19.17	22.50	0.299	Battery 1#	Yes
Left Side	10mm	132072/1720	20M QPSK 50%RB#0	0.106	0.057	0.11	19.17	22.50	0.228	Battery 1#	Yes
Right Side	10mm	132072/1720	20M QPSK 50%RB#0	0.012	0.007	-0.04	19.17	22.50	0.026	Battery 1#	Yes
Top Side	10mm	132072/1720	20M QPSK 50%RB#0	0.058	0.035	-0.07	19.17	22.50	0.124	Battery 1#	Yes
Back Side	10mm	132322/1745	20M QPSK 1RB#50	0.153	0.098	0.16	19.29	22.50	0.320	Battery 2#	Yes
Back Side	10mm	132322/1745	20M QPSK 1RB#50	0.150	0.097	0.05	19.29	22.50	0.314	Battery 3#	Yes

Table 222:Product Specific 10-g SAR test reduction evaluation of LTE Band LXVI

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.15 SAR measurement Result of GSM850(main antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	190/836.6	GSM	0.158	0.122	0.06	33.16	34.00	0.192	Battery 1#	/
Left tilt	/	190/836.6	GSM	0.101	0.078	0.07	33.16	34.00	0.123	Battery 1#	/
Right touch	/	190/836.6	GSM	0.218	0.166	0.00	33.16	34.00	0.265	Battery 1#	/
Right tilt	/	190/836.6	GSM	0.101	0.079	0.18	33.16	34.00	0.123	Battery 1#	/
Right touch	/	190/836.6	GSM	0.212	0.165	0.09	33.16	34.00	0.257	Battery 2#	/
Right touch	/	190/836.6	GSM	0.199	0.154	-0.12	33.16	34.00	0.241	Battery 3#	/
Right touch	/	128/824.2	GSM	0.160	0.123	0.13	32.79	34.00	0.211	Battery 1#	/
Right touch	/	251/848.8	GSM	0.269	0.205	0.16	33.12	34.00	0.329	Battery 1#	Yes

Table 223: Head SAR test results of GSM850

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	190/836.6	GSM	0.229	0.168	-0.10	33.16	34.00	0.278	Battery 1#	/
Back Side	15mm	190/836.6	GSM	0.231	0.170	-0.03	33.16	34.00	0.280	Battery 1#	Yes
Back Side	15mm	190/836.6	GSM	0.230	0.170	-0.01	33.16	34.00	0.279	Battery 2#	/
Back Side	15mm	190/836.6	GSM	0.217	0.161	-0.03	33.16	34.00	0.263	Battery 3#	/

Table 224: Body-Worn SAR test results of GSM850

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	190/836.6	GPRS 2TS	0.344	0.202	-0.01	30.71	32.00	0.463	Battery 1#	/
Back Side	10mm	190/836.6	GPRS 2TS	0.313	0.189	0.07	30.71	32.00	0.421	Battery 1#	/
Left Side	10mm	190/836.6	GPRS 2TS	0.081	0.055	0.06	30.71	32.00	0.109	Battery 1#	/
Right Side	10mm	190/836.6	GPRS 2TS	0.245	0.167	0.03	30.71	32.00	0.330	Battery 1#	/
Bottom Side	10mm	190/836.6	GPRS 2TS	0.219	0.115	-0.15	30.71	32.00	0.295	Battery 1#	/
Front Side	10mm	190/836.6	GPRS 2TS	0.355	0.209	-0.04	30.71	32.00	0.478	Battery 2#	Yes
Front Side	10mm	190/836.6	GPRS 2TS	0.346	0.205	0.10	30.71	32.00	0.466	Battery 3#	/

Table 225: Hotspot SAR test results of GSM850

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.16 SAR measurement Result of GSM1900(main antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	661/1880	GSM	0.055	0.036	0.08	30.20	31.00	0.066	Battery 1#	/
Left tilt	/	661/1880	GSM	0.020	0.011	-0.15	30.20	31.00	0.024	Battery 1#	/
Right touch	/	661/1880	GSM	0.055	0.036	-0.14	30.20	31.00	0.066	Battery 1#	/
Right tilt	/	661/1880	GSM	0.036	0.018	0.11	30.20	31.00	0.043	Battery 1#	/
Left touch	/	661/1880	GSM	0.063	0.039	0.07	30.20	31.00	0.076	Battery 2#	/
Left touch	/	661/1880	GSM	0.067	0.042	0.06	30.20	31.00	0.081	Battery 3#	/
Left touch	/	512/1850.2	GSM	0.076	0.047	0.00	30.30	31.00	0.089	Battery 3#	Yes
Left touch	/	810/1909.8	GSM	0.048	0.031	-0.13	30.10	31.00	0.059	Battery 3#	/

Table 226: Head SAR test results of GSM1900

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	661/1880	GSM	0.283	0.160	0.07	30.20	31.00	0.340	Battery 1#	/
Back Side	15mm	661/1880	GSM	0.286	0.164	-0.04	30.20	31.00	0.344	Battery 1#	/
Back Side	15mm	661/1880	GSM	0.283	0.164	0.03	30.20	31.00	0.340	Battery 2#	/
Back Side	15mm	661/1880	GSM	0.302	0.175	0.14	30.20	31.00	0.363	Battery 3#	Yes

Table 227: Body-Worn SAR test results of GSM1900

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	661/1880	GPRS 2TS	0.346	0.183	-0.11	24.90	26.00	0.446	Battery 1#	/
Back Side	10mm	661/1880	GPRS 2TS	0.324	0.175	0.15	24.90	26.00	0.417	Battery 1#	/
Left Side	10mm	661/1880	GPRS 2TS	0.017	0.008	-0.02	24.90	26.00	0.022	Battery 1#	/
Right Side	10mm	661/1880	GPRS 2TS	0.051	0.026	0.15	24.90	26.00	0.065	Battery 1#	/
Bottom Side	10mm	661/1880	GPRS 2TS	0.610	0.320	-0.04	24.90	26.00	0.786	Battery 1#	/
Bottom Side	10mm	661/1880	GPRS 2TS	0.615	0.323	-0.04	24.90	26.00	0.792	Battery 2#	Yes
Bottom Side	10mm	661/1880	GPRS 2TS	0.612	0.322	-0.04	24.90	26.00	0.788	Battery 3#	/
Additional SAR test at worst case at position of Hotspot with protected cover											
Bottom Side	10mm	661/1880	GPRS 2TS	0.554	0.300	-0.13	24.90	26.00	0.714	Battery 2# Protected cover 1#	/
Bottom Side	10mm	661/1880	GPRS 2TS	0.493	0.271	-0.18	24.90	26.00	0.635	Battery 2# Protected cover 2#	/

Table 228: Hotspot SAR test results of GSM1900

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	661/1880	GPRS 2TS	0.346	0.183	-0.11	24.90	29.00	0.889	Battery 1#	Yes
Back Side	10mm	661/1880	GPRS 2TS	0.324	0.175	0.15	24.90	29.00	0.833	Battery 1#	Yes
Left Side	10mm	661/1880	GPRS 2TS	0.017	0.008	-0.02	24.90	29.00	0.044	Battery 1#	Yes
Right Side	10mm	661/1880	GPRS 2TS	0.051	0.026	0.15	24.90	29.00	0.130	Battery 1#	Yes
Bottom Side	10mm	661/1880	GPRS 2TS	0.610	0.320	-0.04	24.90	29.00	1.568	Battery 1#	No
Bottom Side	10mm	661/1880	GPRS 2TS	0.615	0.323	-0.04	24.90	29.00	1.581	Battery 2#	No
Bottom Side	10mm	661/1880	GPRS 2TS	0.612	0.322	-0.04	24.90	29.00	1.573	Battery 3#	No
Bottom Side	10mm	661/1880	GPRS 2TS	0.554	0.300	-0.13	24.90	29.00	1.424	Battery 2#	No
Bottom Side	10mm	661/1880	GPRS 2TS	0.493	0.271	-0.18	24.90	29.00	1.267	Battery 2#	No

Table 229: Product Specific 10-g SAR test reduction evaluation of GSM1900

Note:

1) According to the table above, only **Bottom Side** Product Specific 10-g SAR test is required for this frequency band.

Product Specific 10-g SAR	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 10-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Bottom Side	0mm	661/1880	GPRS 2TS	3.450	1.660	0.13	28.00	29.00	2.090	Battery 1#	/
Bottom Side	0mm	512/1850.2	GPRS 2TS	4.050	1.900	-0.19	28.10	29.00	2.338	Battery 1#	Yes
Bottom Side	0mm	810/1909.8	GPRS 2TS	2.690	1.310	-0.04	27.90	29.00	1.688	Battery 1#	/
Bottom Side	0mm	512/1850.2	GPRS 2TS	4.010	1.880	-0.19	28.10	29.00	2.313	Battery 2#	/
Bottom Side	0mm	512/1850.2	GPRS 2TS	4.000	1.900	-0.11	28.10	29.00	2.338	Battery 3#	/

Table 230: Product Specific 10-g SAR test results of GSM1900

7.2.17 SAR measurement Result of UMTS Band II(main antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	9400/1880	RMC	0.100	0.062	0.15	24.03	25.00	0.125	Battery 1#	/
Left tilt	/	9400/1880	RMC	0.042	0.023	0.19	24.03	25.00	0.053	Battery 1#	/
Right touch	/	9400/1880	RMC	0.105	0.067	0.15	24.03	25.00	0.131	Battery 1#	Yes
Right tilt	/	9400/1880	RMC	0.072	0.041	0.07	24.03	25.00	0.090	Battery 1#	/
Right touch	/	9400/1880	RMC	0.097	0.061	0.16	24.03	25.00	0.121	Battery 2#	/
Right touch	/	9400/1880	RMC	0.098	0.057	0.14	24.03	25.00	0.122	Battery 3#	/
Right touch	/	9262/1852.4	RMC	0.104	0.066	0.16	24.25	25.00	0.124	Battery 1#	/
Right touch	/	9538/1907.6	RMC	0.100	0.063	0.15	24.12	25.00	0.122	Battery 1#	/

Table 231: Head SAR test results of UMTS Band II

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	9400/1880	RMC	0.658	0.370	0.14	24.03	25.00	0.823	Battery 1#	/
Front Side	15mm	9262/1852.4	RMC	0.747	0.421	0.14	24.25	25.00	0.888	Battery 1#	Yes
Front Side	15mm	9538/1907.6	RMC	0.567	0.315	-0.02	24.12	25.00	0.694	Battery 1#	/
Back Side	15mm	9400/1880	RMC	0.589	0.338	0.07	24.03	25.00	0.736	Battery 1#	/
Front Side	15mm	9262/1852.4	RMC	0.716	0.408	0.17	24.25	25.00	0.851	Battery 2#	/
Front Side	15mm	9262/1852.4	RMC	0.700	0.399	0.13	24.25	25.00	0.832	Battery 3#	/
Additional SAR test at worst case at position of Body-Worn with protected cover											
Front Side	15mm	9262/1852.4	RMC	0.386	0.226	0.13	24.25	25.00	0.459	Battery 1# Protected cover1#	/
Front Side	15mm	9262/1852.4	RMC	0.572	0.334	0.15	24.25	25.00	0.680	Battery 1# Protected cover2#	/

Table 232: Body-Worn SAR test results of UMTS Band II

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	9400/1880	RMC	0.250	0.137	0.14	18.44	19.50	0.319	Battery 1#	/
Back Side	10mm	9400/1880	RMC	0.306	0.167	0.06	18.44	19.50	0.391	Battery 1#	/
Left Side	10mm	9400/1880	RMC	0.020	0.011	0.07	18.44	19.50	0.026	Battery 1#	/
Right Side	10mm	9400/1880	RMC	0.050	0.025	0.08	18.44	19.50	0.064	Battery 1#	/
Bottom Side	10mm	9400/1880	RMC	0.616	0.325	0.06	18.44	19.50	0.786	Battery 1#	Yes
Bottom Side	10mm	9400/1880	RMC	0.609	0.322	-0.02	18.44	19.50	0.777	Battery 2#	/
Bottom Side	10mm	9400/1880	RMC	0.612	0.322	-0.02	18.44	19.50	0.781	Battery 3#	/

Table 233: Hotspot SAR test results of UMTS Band II

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	9400/1880	RMC	0.250	0.137	0.14	18.44	25.00	1.132	Battery 1#	Yes
Back Side	10mm	9400/1880	RMC	0.306	0.167	0.06	18.44	25.00	1.386	Battery 1#	No
Left Side	10mm	9400/1880	RMC	0.020	0.011	0.07	18.44	25.00	0.091	Battery 1#	Yes
Right Side	10mm	9400/1880	RMC	0.050	0.025	0.08	18.44	25.00	0.226	Battery 1#	Yes
Bottom Side	10mm	9400/1880	RMC	0.616	0.325	0.06	18.44	25.00	2.790	Battery 1#	No
Bottom Side	10mm	9400/1880	RMC	0.609	0.322	-0.02	18.44	25.00	2.758	Battery 2#	No
Bottom Side	10mm	9400/1880	RMC	0.612	0.322	-0.02	18.44	25.00	2.772	Battery 3#	No

Table 234:Product Specific 10-g SAR test reduction evaluation of UMTS Band II

Note:

1) According to the table above, **Back/Bottom Side** Product Specific 10-g SAR test is required for this frequency band.

Product Specific 10-g SAR	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 10-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Back Side	0mm	9400/1880	RMC	4.060	1.820	0.04	22.70	23.50	2.188	Battery 1#	/
Back Side	0mm	9262/1852.4	RMC	4.800	2.110	0.03	22.50	23.50	2.656	Battery 1#	/
Back Side	0mm	9538/1907.6	RMC	2.950	1.340	0.07	22.56	23.50	1.664	Battery 1#	/
Bottom Side	0mm	9400/1880	RMC	3.800	1.960	-0.15	22.70	23.50	2.356	Battery 1#	/
Bottom Side	0mm	9262/1852.4	RMC	5.270	2.320	-0.14	22.50	23.50	2.921	Battery 1#	Yes
Bottom Side	0mm	9538/1907.6	RMC	4.590	2.170	-0.15	22.56	23.50	2.694	Battery 1#	/
Bottom Side	0mm	9262/1852.4	RMC	4.480	2.120	-0.15	22.50	23.50	2.669	Battery 2#	/
Bottom Side	0mm	9262/1852.4	RMC	4.680	2.120	-0.18	22.50	23.50	2.669	Battery 3#	/
Bottom Side-Repeated	0mm	9262/1852.4	RMC	4.590	2.260	0.00	22.50	23.50	2.845	Battery 1#	/
Additional SAR test with Sensor off											
Back Side	7mm	9400/1880	RMC	1.920	0.985	0.13	24.03	25.00	1.232	Battery 1#	/
Bottom Side	8mm	9400/1880	RMC	3.060	1.560	-0.12	24.03	25.00	1.950	Battery 1#	/

Table 235: Product Specific 10-g SAR test results of UMTS Band II

7.2.18 SAR measurement Result of UMTS Band IV(main antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	1413/1732.6	RMC	0.166	0.109	-0.12	23.90	25.00	0.214	Battery 1#	/
Left tilt	/	1413/1732.6	RMC	0.044	0.025	0.09	23.90	25.00	0.056	Battery 1#	/
Right touch	/	1413/1732.6	RMC	0.094	0.066	-0.10	23.90	25.00	0.120	Battery 1#	/
Right tilt	/	1413/1732.6	RMC	0.102	0.053	0.11	23.90	25.00	0.131	Battery 1#	/
Left touch	/	1413/1732.6	RMC	0.173	0.114	-0.17	23.90	25.00	0.223	Battery 2#	/
Left touch	/	1413/1732.6	RMC	0.175	0.114	-0.09	23.90	25.00	0.225	Battery 3#	Yes
Left touch	/	1312/1712.4	RMC	0.172	0.113	0.10	24.10	25.00	0.212	Battery 3#	/
Left touch	/	1513/1752.6	RMC	0.157	0.095	-0.17	23.97	25.00	0.199	Battery 3#	/

Table 236: Head SAR test results of UMTS Band IV

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	1413/1732.6	RMC	0.581	0.340	-0.03	23.90	25.00	0.748	Battery 1#	/
Back Side	15mm	1413/1732.6	RMC	0.516	0.305	0.15	23.90	25.00	0.665	Battery 1#	/
Front Side	15mm	1413/1732.6	RMC	0.622	0.360	-0.12	23.90	25.00	0.801	Battery 2#	Yes
Front Side	15mm	1312/1712.4	RMC	0.544	0.319	-0.02	24.10	25.00	0.669	Battery 2#	/
Front Side	15mm	1513/1752.6	RMC	0.584	0.340	-0.16	23.97	25.00	0.740	Battery 2#	/
Front Side	15mm	1413/1732.6	RMC	0.566	0.330	-0.14	23.90	25.00	0.729	Battery 3#	/

Table 237: Body-Worn SAR test results of UMTS Band IV

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	1413/1732.6	RMC	0.475	0.250	-0.11	18.97	20.00	0.602	Battery 1#	/
Back Side	10mm	1413/1732.6	RMC	0.303	0.167	-0.17	18.97	20.00	0.384	Battery 1#	/
Left Side	10mm	1413/1732.6	RMC	0.031	0.019	-0.03	18.97	20.00	0.039	Battery 1#	/
Right Side	10mm	1413/1732.6	RMC	0.052	0.027	-0.07	18.97	20.00	0.066	Battery 1#	/
Bottom Side	10mm	1413/1732.6	RMC	0.599	0.320	0.10	18.97	20.00	0.759	Battery 1#	Yes
Bottom Side	10mm	1413/1732.6	RMC	0.527	0.262	0.07	18.97	20.00	0.668	Battery 2#	/
Bottom Side	10mm	1413/1732.6	RMC	0.569	0.304	0.15	18.97	20.00	0.721	Battery 3#	/

Table 238: Hotspot SAR test results of UMTS Band IV

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	1413/1732.6	RMC	0.475	0.250	-0.11	18.97	25.00	1.904	Battery 1#	No
Back Side	10mm	1413/1732.6	RMC	0.303	0.167	-0.17	18.97	25.00	1.215	Battery 1#	No
Left Side	10mm	1413/1732.6	RMC	0.031	0.019	-0.03	18.97	25.00	0.124	Battery 1#	Yes
Right Side	10mm	1413/1732.6	RMC	0.052	0.027	-0.07	18.97	25.00	0.209	Battery 1#	Yes
Bottom Side	10mm	1413/1732.6	RMC	0.599	0.320	0.10	18.97	25.00	2.401	Battery 1#	No
Bottom Side	10mm	1413/1732.6	RMC	0.527	0.262	0.07	18.97	25.00	2.113	Battery 2#	No
Bottom Side	10mm	1413/1732.6	RMC	0.569	0.304	0.15	18.97	25.00	2.281	Battery 3#	No

Table 239:Product Specific 10-g SAR test reduction evaluation of UMTS Band IV

Note:

1) According to the table above, **Front/Back/Bottom Side** Product Specific 10-g SAR test is required for this frequency band.

Product Specific 10-g SAR	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 10-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	0mm	1413/1732.6	RMC	4.690	2.060	0.15	21.52	22.50	2.581	Battery 1#	/
Front Side	0mm	1312/1712.4	RMC	4.820	2.120	-0.16	21.60	22.50	2.608	Battery 1#	/
Front Side	0mm	1513/1752.6	RMC	4.890	2.120	0.13	21.40	22.50	2.731	Battery 1#	/
Back Side	0mm	1413/1732.6	RMC	3.070	1.410	-0.17	21.52	22.50	1.767	Battery 1#	/
Bottom Side	0mm	1413/1732.6	RMC	4.640	2.210	0.10	21.52	22.50	2.769	Battery 1#	/
Bottom Side	0mm	1312/1712.4	RMC	5.310	2.550	0.13	21.60	22.50	3.137	Battery 1#	/
Bottom Side	0mm	1513/1752.6	RMC	5.010	2.410	0.16	21.40	22.50	3.105	Battery 1#	/
Bottom Side	0mm	1312/1712.4	RMC	4.660	2.240	0.10	21.60	22.50	2.756	Battery 2#	/
Bottom Side	0mm	1312/1712.4	RMC	4.680	2.240	0.12	21.60	22.50	2.756	Battery 3#	/
Bottom Side-Repeated	0mm	1312/1712.4	RMC	4.720	2.250	0.11	21.60	22.50	2.768	Battery 1#	Yes
Additional SAR test with Sensor off											
Front Side	8mm	1413/1732.6	RMC	1.610	0.851	0.05	23.90	25.00	1.096	Battery 1#	/
Back Side	7mm	1413/1732.6	RMC	1.390	0.749	0.01	23.90	25.00	0.965	Battery 1#	/
Bottom Side	8mm	1413/1732.6	RMC	2.700	1.380	0.12	23.90	25.00	1.778	Battery 1#	/

Table 240: Product Specific 10-g SAR test results of UMTS Band IV

7.2.19 SAR measurement Result of UMTS Band V(main antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	4182/836.4	RMC	0.169	0.132	0.12	24.07	25.00	0.209	Battery 1#	/
Left tilt	/	4182/836.4	RMC	0.101	0.080	0.02	24.07	25.00	0.125	Battery 1#	/
Right touch	/	4182/836.4	RMC	0.218	0.167	0.09	24.07	25.00	0.270	Battery 1#	/
Right tilt	/	4182/836.4	RMC	0.100	0.078	0.11	24.07	25.00	0.124	Battery 1#	/
Right touch	/	4182/836.4	RMC	0.202	0.156	0.08	24.07	25.00	0.250	Battery 2#	/
Right touch	/	4182/836.4	RMC	0.181	0.140	0.06	24.07	25.00	0.224	Battery 3#	/
Right touch	/	4132/826.4	RMC	0.163	0.126	-0.18	24.42	25.00	0.186	Battery 1#	/
Right touch	/	4233/846.6	RMC	0.240	0.181	0.00	23.97	25.00	0.304	Battery 1#	Yes

Table 241: Head SAR test results of UMTS Band V

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	4182/836.4	RMC	0.229	0.166	-0.14	24.07	25.00	0.284	Battery 1#	Yes
Back Side	15mm	4182/836.4	RMC	0.225	0.166	-0.07	24.07	25.00	0.279	Battery 1#	/
Front Side	15mm	4182/836.4	RMC	0.224	0.164	0.00	24.07	25.00	0.277	Battery 2#	/
Front Side	15mm	4182/836.4	RMC	0.224	0.164	-0.06	24.07	25.00	0.277	Battery 3#	/

Table 242: Body-Worn SAR test results of UMTS Band V

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	4182/836.4	RMC	0.329	0.200	-0.04	24.07	25.00	0.408	Battery 1#	/
Back Side	10mm	4182/836.4	RMC	0.383	0.236	0.01	24.07	25.00	0.474	Battery 1#	Yes
Left Side	10mm	4182/836.4	RMC	0.059	0.037	-0.05	24.07	25.00	0.073	Battery 1#	/
Right Side	10mm	4182/836.4	RMC	0.289	0.195	-0.01	24.07	25.00	0.358	Battery 1#	/
Bottom Side	10mm	4182/836.4	RMC	0.274	0.128	-0.07	24.07	25.00	0.339	Battery 1#	/
Back Side	10mm	4182/836.4	RMC	0.370	0.226	0.08	24.07	25.00	0.458	Battery 2#	/
Back Side	10mm	4182/836.4	RMC	0.356	0.220	-0.02	24.07	25.00	0.441	Battery 3#	/

Table 243: Hotspot SAR test results of UMTS Band V

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.20 SAR measurement Result of LTE Band II(main antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	19100/1900	20M QPSK 1RB#99	0.079	0.049	0.14	24.94	25.00	0.080	Battery 1#	/
Left tilt	/	19100/1900	20M QPSK 1RB#99	0.037	0.019	0.13	24.94	25.00	0.038	Battery 1#	/
Right touch	/	19100/1900	20M QPSK 1RB#99	0.088	0.056	0.12	24.94	25.00	0.089	Battery 1#	/
Right tilt	/	19100/1900	20M QPSK 1RB#99	0.067	0.034	0.02	24.94	25.00	0.068	Battery 1#	/
Left touch	/	18700/1860	20M QPSK 50%RB#50	0.077	0.044	0.18	22.72	24.00	0.103	Battery 1#	/
Left tilt	/	18700/1860	20M QPSK 50%RB#50	0.026	0.014	0.02	22.72	24.00	0.035	Battery 1#	/
Right touch	/	18700/1860	20M QPSK 50%RB#50	0.062	0.054	0.18	22.72	24.00	0.083	Battery 1#	/
Right tilt	/	18700/1860	20M QPSK 50%RB#50	0.046	0.025	0.16	22.72	24.00	0.061	Battery 1#	/
Left touch	/	18700/1860	20M QPSK 50%RB#50	0.080	0.050	-0.01	22.72	24.00	0.108	Battery 2#	/
Left touch	/	18700/1860	20M QPSK 50%RB#50	0.098	0.061	0.03	22.72	24.00	0.131	Battery 3#	Yes
Left touch	/	18900/1880	20M QPSK 50%RB#50	0.083	0.051	0.06	22.69	24.00	0.112	Battery 3#	/
Left touch	/	19100/1900	20M QPSK 50%RB#0	0.074	0.046	-0.07	22.64	24.00	0.102	Battery 3#	/

Table 244: Head SAR test results of LTE Band II

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	19100/1900	20M QPSK 1RB#99	0.374	0.215	-0.10	24.94	25.00	0.379	Battery 1#	/
Back Side	15mm	19100/1900	20M QPSK 1RB#99	0.436	0.255	-0.08	24.94	25.00	0.442	Battery 1#	Yes
Front Side	15mm	18700/1860	20M QPSK 50%RB#50	0.344	0.199	0.13	22.72	24.00	0.462	Battery 1#	/
Back Side	15mm	18700/1860	20M QPSK 50%RB#50	0.393	0.228	0.15	22.72	24.00	0.528	Battery 1#	/
Back Side	15mm	18700/1860	20M QPSK 50%RB#50	0.391	0.227	0.17	22.72	24.00	0.525	Battery 2#	/
Back Side	15mm	18700/1860	20M QPSK 50%RB#50	0.414	0.238	0.16	22.72	24.00	0.556	Battery 3#	/

Table 245: Body-Worn SAR test results of LTE Band II

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	19100/1900	20M QPSK 1RB#99	0.265	0.140	0.02	19.39	19.50	0.272	Battery 1#	/
Back Side	10mm	19100/1900	20M QPSK 1RB#99	0.190	0.104	0.05	19.39	19.50	0.195	Battery 1#	/
Left Side	10mm	19100/1900	20M QPSK 1RB#99	0.017	0.009	0.10	19.39	19.50	0.018	Battery 1#	/
Right Side	10mm	19100/1900	20M QPSK 1RB#99	0.035	0.019	0.03	19.39	19.50	0.036	Battery 1#	/
Bottom Side	10mm	19100/1900	20M QPSK 1RB#99	0.518	0.271	0.05	19.39	19.50	0.531	Battery 1#	/
Front Side	10mm	18700/1860	20M QPSK 50%RB#50	0.342	0.183	0.16	19.14	19.50	0.372	Battery 1#	/
Back Side	10mm	18700/1860	20M QPSK 50%RB#50	0.298	0.164	0.12	19.14	19.50	0.324	Battery 1#	/
Left Side	10mm	18700/1860	20M QPSK 50%RB#50	0.025	0.014	0.04	19.14	19.50	0.027	Battery 1#	/
Right Side	10mm	18700/1860	20M QPSK 50%RB#50	0.045	0.023	0.02	19.14	19.50	0.049	Battery 1#	/
Bottom Side	10mm	18700/1860	20M QPSK 50%RB#50	0.661	0.348	0.03	19.14	19.50	0.718	Battery 1#	/
Bottom Side	10mm	18700/1860	20M QPSK 50%RB#50	0.703	0.368	-0.03	19.14	19.50	0.764	Battery 2#	Yes
Bottom Side	10mm	18700/1860	20M QPSK 50%RB#50	0.635	0.335	0.05	19.14	19.50	0.690	Battery 3#	/

Table 246: Hotspot SAR test results of LTE Band II

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	19100/1900	20M QPSK 1RB#99	0.265	0.140	0.02	19.39	25.00	0.964	Battery 1#	Yes
Back Side	10mm	19100/1900	20M QPSK 1RB#99	0.190	0.104	0.05	19.39	25.00	0.691	Battery 1#	Yes
Left Side	10mm	19100/1900	20M QPSK 1RB#99	0.017	0.009	0.10	19.39	25.00	0.063	Battery 1#	Yes
Right Side	10mm	19100/1900	20M QPSK 1RB#99	0.035	0.019	0.03	19.39	25.00	0.129	Battery 1#	Yes
Bottom Side	10mm	19100/1900	20M QPSK 1RB#99	0.518	0.271	0.05	19.39	25.00	1.885	Battery 1#	No
Front Side	10mm	18700/1860	20M QPSK 50%RB#50	0.342	0.183	0.16	19.14	24.00	1.047	Battery 1#	Yes
Back Side	10mm	18700/1860	20M QPSK 50%RB#50	0.298	0.164	0.12	19.14	24.00	0.912	Battery 1#	Yes
Left Side	10mm	18700/1860	20M QPSK 50%RB#50	0.025	0.014	0.04	19.14	24.00	0.077	Battery 1#	Yes
Right Side	10mm	18700/1860	20M QPSK 50%RB#50	0.045	0.023	0.02	19.14	24.00	0.137	Battery 1#	Yes
Bottom Side	10mm	18700/1860	20M QPSK 50%RB#50	0.661	0.348	0.03	19.14	24.00	2.024	Battery 1#	No
Bottom Side	10mm	18700/1860	20M QPSK 50%RB#50	0.703	0.368	-0.03	19.14	24.00	2.153	Battery 2#	No
Bottom Side	10mm	18700/1860	20M QPSK 50%RB#50	0.635	0.335	0.05	19.14	24.00	1.944	Battery 3#	No

Table 247: Product Specific 10-g SAR test reduction evaluation of LTE Band II

Note:

1) According to the table above, only **Bottom Side** Product Specific 10-g SAR test is required for this frequency band.

Product Specific 10-g SAR	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 10-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Bottom Side	0mm	18900/1880	20M QPSK 1RB#0	3.490	1.720	-0.03	22.78	23.00	1.809	Battery 1#	Yes
Bottom Side	0mm	18900/1880	20M QPSK 50%RB#50	3.020	1.520	-0.12	22.61	23.00	1.663	Battery 1#	/
Bottom Side	0mm	18900/1880	20M QPSK 1RB#0	3.510	1.660	-0.15	22.78	23.00	1.746	Battery 2#	/
Bottom Side	0mm	18900/1880	20M QPSK 1RB#0	3.730	1.710	-0.06	22.78	23.00	1.799	Battery 3#	/
Additional SAR test with Sensor off											
Bottom Side	8mm	19100/1900	20M QPSK 1RB#99	3.200	1.590	-0.17	24.94	25.00	1.612	Battery 1#	/
Bottom Side	8mm	18700/1860	20M QPSK 50%RB#50	3.230	1.570	-0.07	22.72	24.00	2.108	Battery 1#	/
Bottom Side	8mm	18900/1880	20M QPSK 50%RB#50	1.850	0.945	-0.19	22.69	24.00	1.278	Battery 1#	/
Bottom Side	8mm	19100/1900	20M QPSK 50%RB#50	1.680	0.849	-0.02	22.64	24.00	1.161	Battery 1#	/
Bottom Side	8mm	18700/1860	20M QPSK 100%RB#0	3.130	1.550	-0.14	22.72	24.00	2.081	Battery 1#	/

Table 248: Product Specific 10-g SAR test results of LTE Band II

7.2.21 SAR measurement Result of LTE Band IV(main antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	20050/1720	20M QPSK 1RB#0	0.156	0.102	0.07	24.79	25.00	0.164	Battery 1#	/
Left tilt	/	20050/1720	20M QPSK 1RB#0	0.039	0.023	0.10	24.79	25.00	0.041	Battery 1#	/
Right touch	/	20050/1720	20M QPSK 1RB#0	0.089	0.062	0.13	24.79	25.00	0.093	Battery 1#	/
Right tilt	/	20050/1720	20M QPSK 1RB#0	0.074	0.040	0.10	24.79	25.00	0.078	Battery 1#	/
Left touch	/	20050/1720	20M QPSK 50%RB#0	0.096	0.063	0.13	22.57	24.00	0.134	Battery 1#	/
Left tilt	/	20050/1720	20M QPSK 50%RB#0	0.026	0.015	0.14	22.57	24.00	0.036	Battery 1#	/
Right touch	/	20050/1720	20M QPSK 50%RB#0	0.055	0.038	0.14	22.57	24.00	0.077	Battery 1#	/
Right tilt	/	20050/1720	20M QPSK 50%RB#0	0.047	0.025	0.13	22.57	24.00	0.065	Battery 1#	/
Left touch	/	20050/1720	20M QPSK 1RB#0	0.169	0.111	-0.11	24.79	25.00	0.177	Battery 2#	/
Left touch	/	20050/1720	20M QPSK 1RB#0	0.159	0.105	0.16	24.79	25.00	0.167	Battery 3#	/
Left touch	/	20175/1732.5	20M QPSK 1RB#0	0.197	0.130	0.19	24.71	25.00	0.211	Battery 2#	/
Left touch	/	20300/1745	20M QPSK 1RB#0	0.206	0.135	0.04	24.58	25.00	0.227	Battery 2#	Yes

Table 249: Head SAR test results of LTE Band IV

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	20050/1720	20M QPSK 1RB#0	0.519	0.302	0.02	24.79	25.00	0.545	Battery 1#	/
Back Side	15mm	20050/1720	20M QPSK 1RB#0	0.515	0.300	-0.04	24.79	25.00	0.541	Battery 1#	/
Front Side	15mm	20050/1720	20M QPSK 50%RB#0	0.320	0.181	0.11	22.57	24.00	0.445	Battery 1#	/
Back Side	15mm	20050/1720	20M QPSK 50%RB#0	0.320	0.188	-0.11	22.57	24.00	0.445	Battery 1#	/
Front Side	15mm	20050/1720	20M QPSK 1RB#0	0.517	0.306	-0.07	24.79	25.00	0.543	Battery 2#	/
Front Side	15mm	20050/1720	20M QPSK 1RB#0	0.520	0.305	-0.16	24.79	25.00	0.546	Battery 3#	Yes

Table 250: Body-Worn SAR test results of LTE Band IV

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	20300/1745	20M QPSK 1RB#99	0.429	0.230	0.10	19.79	20.00	0.450	Battery 1#	/
Back Side	10mm	20300/1745	20M QPSK 1RB#99	0.358	0.196	0.05	19.79	20.00	0.376	Battery 1#	/
Left Side	10mm	20300/1745	20M QPSK 1RB#99	0.033	0.019	0.06	19.79	20.00	0.034	Battery 1#	/
Right Side	10mm	20300/1745	20M QPSK 1RB#99	0.054	0.027	-0.03	19.79	20.00	0.056	Battery 1#	/
Bottom Side	10mm	20300/1745	20M QPSK 1RB#99	0.626	0.332	0.08	19.79	20.00	0.657	Battery 1#	/
Front Side	10mm	20300/1745	20M QPSK 50%RB#25	0.398	0.214	0.14	19.60	20.00	0.436	Battery 1#	/
Back Side	10mm	20300/1745	20M QPSK 50%RB#25	0.310	0.162	0.02	19.60	20.00	0.340	Battery 1#	/
Left Side	10mm	20300/1745	20M QPSK 50%RB#25	0.031	0.018	-0.08	19.60	20.00	0.034	Battery 1#	/
Right Side	10mm	20300/1745	20M QPSK 50%RB#25	0.051	0.026	-0.02	19.60	20.00	0.056	Battery 1#	/
Bottom Side	10mm	20300/1745	20M QPSK 50%RB#25	0.583	0.309	0.10	19.60	20.00	0.639	Battery 1#	/
Bottom Side	10mm	20300/1745	20M QPSK 1RB#99	0.684	0.363	0.11	19.79	20.00	0.718	Battery 2#	Yes
Bottom Side	10mm	20300/1745	20M QPSK 1RB#99	0.613	0.327	0.08	19.79	20.00	0.643	Battery 3#	/

Table 251: Hotspot SAR test results of LTE Band IV

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	20300/1745	20M QPSK 1RB#99	0.429	0.230	0.10	19.79	25.00	1.424	Battery 1#	No
Back Side	10mm	20300/1745	20M QPSK 1RB#99	0.358	0.196	0.05	19.79	25.00	1.188	Battery 1#	Yes
Left Side	10mm	20300/1745	20M QPSK 1RB#99	0.033	0.019	0.06	19.79	25.00	0.109	Battery 1#	Yes
Right Side	10mm	20300/1745	20M QPSK 1RB#99	0.054	0.027	-0.03	19.79	25.00	0.178	Battery 1#	Yes
Bottom Side	10mm	20300/1745	20M QPSK 1RB#99	0.626	0.332	0.08	19.79	25.00	2.078	Battery 1#	No
Front Side	10mm	20300/1745	20M QPSK 50%RB#25	0.398	0.214	0.14	19.60	24.00	1.096	Battery 1#	Yes
Back Side	10mm	20300/1745	20M QPSK 50%RB#25	0.310	0.162	0.02	19.60	24.00	0.854	Battery 1#	Yes
Left Side	10mm	20300/1745	20M QPSK 50%RB#25	0.031	0.018	-0.08	19.60	24.00	0.086	Battery 1#	Yes
Right Side	10mm	20300/1745	20M QPSK 50%RB#25	0.051	0.026	-0.02	19.60	24.00	0.140	Battery 1#	Yes
Bottom Side	10mm	20300/1745	20M QPSK 50%RB#25	0.583	0.309	0.10	19.60	24.00	1.606	Battery 1#	No
Bottom Side	10mm	20300/1745	20M QPSK 1RB#99	0.684	0.363	0.11	19.79	25.00	2.270	Battery 2#	No
Bottom Side	10mm	20300/1745	20M QPSK 1RB#99	0.613	0.327	0.08	19.79	25.00	2.035	Battery 3#	No

Table 252: Product Specific 10-g SAR test reduction evaluation of LTE Band IV

Note:

1) According to the table above, **Front/Bottom Side** Product Specific 10-g SAR test is required for this frequency band.

Product Specific 10-g SAR	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 10-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	0mm	20050/1720	20M QPSK 1RB#0	5.380	2.320	-0.16	22.28	22.50	2.441	Battery 1#	/
Front Side	0mm	20175/1732.5	20M QPSK 1RB#99	5.330	2.460	0.18	22.32	22.50	2.564	Battery 1#	/
Front Side	0mm	20300/1745	20M QPSK 1RB#99	4.620	2.340	0.07	22.38	22.50	2.406	Battery 1#	/
Bottom Side	0mm	20050/1720	20M QPSK 1RB#0	4.640	2.250	0.15	22.28	22.50	2.367	Battery 1#	/
Bottom Side	0mm	20175/1732.5	20M QPSK 1RB#99	5.720	2.500	0.09	22.32	22.50	2.606	Battery 1#	/
Bottom Side	0mm	20300/1745	20M QPSK 1RB#99	5.790	2.420	0.11	22.38	22.50	2.488	Battery 1#	/
Front Side	0mm	20050/1720	20M QPSK 50%RB#25	6.210	2.660	0.00	22.12	22.50	2.903	Battery 1#	/
Front Side	0mm	20175/1732.5	20M QPSK 50%RB#50	5.670	2.410	0.02	22.11	22.50	2.636	Battery 1#	/
Front Side	0mm	20300/1745	20M QPSK 50%RB#50	5.370	2.330	0.06	22.15	22.50	2.526	Battery 1#	/
Bottom Side	0mm	20050/1720	20M QPSK 50%RB#25	4.510	2.160	0.12	22.12	22.50	2.358	Battery 1#	/
Bottom Side	0mm	20175/1732.5	20M QPSK 50%RB#50	5.590	2.710	0.10	22.11	22.50	2.965	Battery 1#	Yes
Bottom Side	0mm	20300/1745	20M QPSK 50%RB#50	5.870	2.450	0.11	22.15	22.50	2.656	Battery 1#	/
Front Side	0mm	20050/1720	20M QPSK 100%RB#0	5.450	2.320	0.18	22.14	22.50	2.521	Battery 1#	/
Bottom Side	0mm	20050/1720	20M QPSK 100%RB#0	5.220	2.470	0.12	22.14	22.50	2.683	Battery 1#	/
Bottom Side	0mm	20175/1732.5	20M QPSK 50%RB#50	5.550	2.440	0.12	22.11	22.50	2.669	Battery 2#	/
Bottom Side	0mm	20175/1732.5	20M QPSK 50%RB#50	5.490	2.620	0.09	22.11	22.50	2.866	Battery 3#	/
Bottom Side -Repeated	0mm	20175/1732.5	20M QPSK 50%RB#50	5.060	2.380	0.10	22.11	22.50	2.604	Battery 1#	/
Additional SAR test with Sensor off											
Front Side	8mm	20050/1720	20M QPSK 1RB#0	1.320	0.698	0.08	24.79	25.00	0.733	Battery 1#	/
Bottom Side	8mm	20050/1720	20M QPSK 1RB#0	2.090	1.070	0.07	24.79	25.00	1.123	Battery 1#	/
Front Side	8mm	20050/1720	20M QPSK 50%RB#0	1.040	0.548	0.02	22.57	24.00	0.762	Battery 1#	/
Bottom Side	8mm	20050/1720	20M QPSK 50%RB#0	1.600	0.819	0.16	22.57	24.00	1.138	Battery 1#	/

Table 253: Product Specific 10-g SAR test results of LTE Band IV

7.2.22 SAR measurement Result of LTE Band V(main antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	20450/829	10M QPSK 1RB#0	0.124	0.099	0.15	24.50	25.00	0.139	Battery 1#	/
Left tilt	/	20450/829	10M QPSK 1RB#0	0.077	0.061	0.12	24.50	25.00	0.087	Battery 1#	/
Right touch	/	20450/829	10M QPSK 1RB#0	0.160	0.125	-0.01	24.50	25.00	0.180	Battery 1#	/
Right tilt	/	20450/829	10M QPSK 1RB#0	0.076	0.061	0.12	24.50	25.00	0.086	Battery 1#	/
Left touch	/	20450/829	10M QPSK 50%RB#25	0.101	0.080	0.14	23.01	24.00	0.127	Battery 1#	/
Left tilt	/	20450/829	10M QPSK 50%RB#25	0.064	0.050	0.15	23.01	24.00	0.080	Battery 1#	/
Right touch	/	20450/829	10M QPSK 50%RB#25	0.133	0.104	0.18	23.01	24.00	0.167	Battery 1#	/
Right tilt	/	20450/829	10M QPSK 50%RB#25	0.064	0.051	0.07	23.01	24.00	0.080	Battery 1#	/
Right touch	/	20450/829	10M QPSK 1RB#0	0.156	0.122	0.15	24.50	25.00	0.175	Battery 2#	/
Right touch	/	20450/829	10M QPSK 1RB#0	0.147	0.114	0.18	24.50	25.00	0.165	Battery 3#	/
Right touch	/	20525/836.5	10M QPSK 1RB#0	0.192	0.149	0.19	24.46	25.00	0.217	Battery 1#	/
Right touch	/	20600/844	10M QPSK 1RB#0	0.225	0.174	0.08	24.43	25.00	0.257	Battery 1#	Yes
Right touch	/	PCC 20450/829	10M QPSK 1RB#49	0.196	0.150	0.130	23.81	25.00	0.258	Battery 1#	/
		SCC 20549/838.9	10M QPSK 1RB#0								

Table 254: Head SAR test results of LTE Band V

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	20450/829	10M QPSK 1RB#0	0.174	0.129	-0.02	24.50	25.00	0.195	Battery 1#	/
Back Side	15mm	20450/829	10M QPSK 1RB#0	0.188	0.141	-0.02	24.50	25.00	0.211	Battery 1#	/
Front Side	15mm	20450/829	10M QPSK 50%RB#25	0.142	0.105	-0.07	23.01	24.00	0.178	Battery 1#	/
Back Side	15mm	20450/829	10M QPSK 50%RB#25	0.153	0.114	-0.10	23.01	24.00	0.192	Battery 1#	/
Back Side	15mm	20450/829	10M QPSK 1RB#0	0.183	0.137	-0.05	24.50	25.00	0.205	Battery 2#	/
Back Side	15mm	20450/829	10M QPSK 1RB#0	0.184	0.138	-0.06	24.50	25.00	0.206	Battery 3#	/
Back Side	15mm	PCC 20450/829	10M QPSK 1RB#49	0.212	0.158	-0.06	23.81	25.00	0.279	Battery 1#	Yes
		SCC 20549/838.9	10M QPSK 1RB#0								

Table 255: Body-Worn SAR test results of LTE Band V

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	20450/829	10M QPSK 1RB#0	0.232	0.141	0.02	24.50	25.00	0.260	Battery 1#	/
Back Side	10mm	20450/829	10M QPSK 1RB#0	0.261	0.161	0.03	24.50	25.00	0.293	Battery 1#	/
Left Side	10mm	20450/829	10M QPSK 1RB#0	0.062	0.042	-0.07	24.50	25.00	0.070	Battery 1#	/
Right Side	10mm	20450/829	10M QPSK 1RB#0	0.218	0.146	-0.02	24.50	25.00	0.245	Battery 1#	/
Bottom Side	10mm	20450/829	10M QPSK 1RB#0	0.189	0.097	-0.13	24.50	25.00	0.212	Battery 1#	/
Front Side	10mm	20450/829	10M QPSK 50%RB#25	0.195	0.118	0.00	23.01	24.00	0.245	Battery 1#	/
Back Side	10mm	20450/829	10M QPSK 50%RB#25	0.215	0.132	0.01	23.01	24.00	0.270	Battery 1#	/
Left Side	10mm	20450/829	10M QPSK 50%RB#25	0.046	0.031	-0.12	23.01	24.00	0.057	Battery 1#	/
Right Side	10mm	20450/829	10M QPSK 50%RB#25	0.173	0.115	-0.04	23.01	24.00	0.217	Battery 1#	/
Bottom Side	10mm	20450/829	10M QPSK 50%RB#25	0.160	0.082	-0.04	23.01	24.00	0.201	Battery 1#	/
Back Side	10mm	20450/829	10M QPSK 1RB#0	0.289	0.178	-0.09	24.50	25.00	0.324	Battery 2#	Yes
Back Side	10mm	20450/829	10M QPSK 1RB#0	0.240	0.148	0.03	24.50	25.00	0.269	Battery 3#	/
Back Side	10mm	PCC 20450/829	10M QPSK 1RB#49	0.285	0.173	-0.03	23.81	25.00	0.375	Battery 1#	/
		SCC 20549/838.9	10M QPSK 1RB#0								

Table 256: Hotspot SAR test results of LTE Band V

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.23 SAR measurement Result of LTE Band VII(main antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	21100/2535	20M QPSK 1RB#0	0.095	0.051	-0.10	22.68	23.50	0.114	Battery 1#	Yes
Left tilt	/	21100/2535	20M QPSK 1RB#0	0.084	0.033	0.14	22.68	23.50	0.101	Battery 1#	/
Right touch	/	21100/2535	20M QPSK 1RB#0	0.074	0.041	0.04	22.68	23.50	0.090	Battery 1#	/
Right tilt	/	21100/2535	20M QPSK 1RB#0	0.093	0.026	-0.05	22.68	23.50	0.113	Battery 1#	/
Left touch	/	21100/2535	20M QPSK 50%RB#0	0.058	0.031	0.17	21.53	22.50	0.073	Battery 1#	/
Left tilt	/	21100/2535	20M QPSK 50%RB#0	0.033	0.017	0.16	21.53	22.50	0.041	Battery 1#	/
Right touch	/	21100/2535	20M QPSK 50%RB#0	0.071	0.039	0.16	21.53	22.50	0.089	Battery 1#	/
Right tilt	/	21100/2535	20M QPSK 50%RB#0	0.037	0.010	0.14	21.53	22.50	0.047	Battery 1#	/
Left touch	/	21100/2535	20M QPSK 1RB#0	0.086	0.046	0.16	22.68	23.50	0.104	Battery 2#	/
Left touch	/	21100/2535	20M QPSK 1RB#0	0.072	0.039	-0.06	22.68	23.50	0.087	Battery 3#	/
Left touch	/	20850/2510	20M QPSK 1RB#99	0.071	0.042	0.06	22.60	23.50	0.087	Battery 1#	/
Left touch	/	21350/2560	20M QPSK 1RB#99	0.082	0.044	-0.05	22.62	23.50	0.100	Battery 1#	/

Table 257: Head SAR test results of LTE Band VII

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	21100/2535	20M QPSK 1RB#0	0.217	0.118	0.00	22.68	23.50	0.262	Battery 1#	Yes
Back Side	15mm	21100/2535	20M QPSK 1RB#0	0.175	0.096	-0.16	22.68	23.50	0.211	Battery 1#	/
Front Side	15mm	21100/2535	20M QPSK 50%RB#0	0.159	0.088	-0.02	21.53	22.50	0.199	Battery 1#	/
Back Side	15mm	21100/2535	20M QPSK 50%RB#0	0.120	0.065	-0.02	21.53	22.50	0.150	Battery 1#	/
Front Side	15mm	21100/2535	20M QPSK 1RB#0	0.170	0.094	0.07	22.68	23.50	0.205	Battery 2#	/
Front Side	15mm	21100/2535	20M QPSK 1RB#0	0.205	0.112	0.11	22.68	23.50	0.248	Battery 3#	/

Table 258: Body-Worn SAR test results of LTE Band VII

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	21100/2535	20M QPSK 1RB#0	0.358	0.188	0.00	22.68	23.50	0.432	Battery 1#	/
Back Side	10mm	21100/2535	20M QPSK 1RB#0	0.391	0.202	-0.08	22.68	23.50	0.472	Battery 1#	/
Left Side	10mm	21100/2535	20M QPSK 1RB#0	0.160	0.076	0.15	22.68	23.50	0.193	Battery 1#	/
Right Side	10mm	21100/2535	20M QPSK 1RB#0	0.073	0.032	0.00	22.68	23.50	0.088	Battery 1#	/
Bottom Side	10mm	21100/2535	20M QPSK 1RB#0	0.461	0.259	0.02	22.68	23.50	0.557	Battery 1#	Yes
Front Side	10mm	21100/2535	20M QPSK 50%RB#0	0.260	0.137	-0.15	21.53	22.50	0.325	Battery 1#	/
Back Side	10mm	21100/2535	20M QPSK 50%RB#0	0.263	0.139	0.01	21.53	22.50	0.329	Battery 1#	/
Left Side	10mm	21100/2535	20M QPSK 50%RB#0	0.119	0.057	0.07	21.53	22.50	0.149	Battery 1#	/
Right Side	10mm	21100/2535	20M QPSK 50%RB#0	0.045	0.020	-0.13	21.53	22.50	0.056	Battery 1#	/
Bottom Side	10mm	21100/2535	20M QPSK 50%RB#0	0.311	0.174	0.00	21.53	22.50	0.389	Battery 1#	/
Bottom Side	10mm	21100/2535	20M QPSK 1RB#0	0.443	0.247	0.06	22.68	23.50	0.535	Battery 2#	/
Bottom Side	10mm	21100/2535	20M QPSK 1RB#0	0.425	0.240	0.09	22.68	23.50	0.513	Battery 3#	/

Table 259: Hotspot SAR test results of LTE Band VII

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.24 SAR measurement Result of LTE Band XII(main antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	23060/704	10M QPSK 1RB#49	0.086	0.070	0.15	23.78	25.00	0.114	Battery 1#	/
Left tilt	/	23060/704	10M QPSK 1RB#49	0.064	0.045	-0.05	23.78	25.00	0.085	Battery 1#	/
Right touch	/	23060/704	10M QPSK 1RB#49	0.113	0.090	0.09	23.78	25.00	0.150	Battery 1#	/
Right tilt	/	23060/704	10M QPSK 1RB#49	0.052	0.036	0.01	23.78	25.00	0.068	Battery 1#	/
Left touch	/	23060/704	10M QPSK 50%RB#25	0.070	0.056	-0.04	22.75	24.00	0.093	Battery 1#	/
Left tilt	/	23060/704	10M QPSK 50%RB#25	0.053	0.036	0.01	22.75	24.00	0.070	Battery 1#	/
Right touch	/	23060/704	10M QPSK 50%RB#25	0.095	0.076	0.08	22.75	24.00	0.126	Battery 1#	/
Right tilt	/	23060/704	10M QPSK 50%RB#25	0.041	0.028	-0.04	22.75	24.00	0.054	Battery 1#	/
Right touch	/	23060/704	10M QPSK 1RB#49	0.118	0.094	-0.02	23.78	25.00	0.156	Battery 2#	/
Right touch	/	23060/704	10M QPSK 1RB#49	0.127	0.102	-0.11	23.78	25.00	0.168	Battery 3#	Yes
Right touch	/	23095/707.5	10M QPSK 1RB#49	0.083	0.058	0.06	23.75	25.00	0.110	Battery 3#	/
Right touch	/	23130/711	10M QPSK 1RB#49	0.109	0.077	0.09	23.77	25.00	0.145	Battery 3#	/

Table 260: Head SAR test results of LTE Band XII

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	23060/704	10M QPSK 1RB#49	0.198	0.151	-0.19	23.78	25.00	0.262	Battery 1#	/
Back Side	15mm	23060/704	10M QPSK 1RB#49	0.206	0.155	0.00	23.78	25.00	0.273	Battery 1#	/
Front Side	15mm	23060/704	10M QPSK 50%RB#25	0.144	0.102	-0.03	22.75	24.00	0.192	Battery 1#	/
Back Side	15mm	23060/704	10M QPSK 50%RB#25	0.159	0.111	-0.01	22.75	24.00	0.212	Battery 1#	/
Back Side	15mm	23060/704	10M QPSK 1RB#49	0.219	0.165	-0.17	23.78	25.00	0.290	Battery 2#	Yes
Back Side	15mm	23060/704	10M QPSK 1RB#49	0.218	0.165	-0.02	23.78	25.00	0.289	Battery 3#	/

Table 261: Body-Worn SAR test results of LTE Band XII

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	23060/704	10M QPSK 1RB#49	0.260	0.190	0.01	23.78	25.00	0.344	Battery 1#	/
Back Side	10mm	23060/704	10M QPSK 1RB#49	0.266	0.187	-0.01	23.78	25.00	0.352	Battery 1#	/
Left Side	10mm	23060/704	10M QPSK 1RB#49	0.153	0.101	0.00	23.78	25.00	0.203	Battery 1#	/
Right Side	10mm	23060/704	10M QPSK 1RB#49	0.323	0.214	-0.01	23.78	25.00	0.428	Battery 1#	Yes
Bottom Side	10mm	23060/704	10M QPSK 1RB#49	0.136	0.070	0.19	23.78	25.00	0.180	Battery 1#	/
Front Side	10mm	23060/704	10M QPSK 50%RB#25	0.205	0.150	-0.01	22.75	24.00	0.273	Battery 1#	/
Back Side	10mm	23060/704	10M QPSK 50%RB#25	0.220	0.159	0.00	22.75	24.00	0.293	Battery 1#	/
Left Side	10mm	23060/704	10M QPSK 50%RB#25	0.120	0.079	0.00	22.75	24.00	0.160	Battery 1#	/
Right Side	10mm	23060/704	10M QPSK 50%RB#25	0.254	0.167	0.05	22.75	24.00	0.339	Battery 1#	/
Bottom Side	10mm	23060/704	10M QPSK 50%RB#25	0.105	0.054	0.11	22.75	24.00	0.140	Battery 1#	/
Right Side	10mm	23060/704	10M QPSK 1RB#49	0.240	0.167	-0.01	23.78	25.00	0.318	Battery 2#	/
Right Side	10mm	23060/704	10M QPSK 1RB#49	0.240	0.167	-0.06	23.78	25.00	0.318	Battery 3#	/

Table 262: Hotspot SAR test results of LTE Band XII

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.25 SAR measurement Result of LTE Band XIV(main antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	23330/795.5	10M QPSK 1RB#49	0.176	0.138	0.03	24.70	25.00	0.189	Battery 1#	/
Left tilt	/	23330/795.5	10M QPSK 1RB#49	0.105	0.083	0.18	24.70	25.00	0.113	Battery 1#	/
Right touch	/	23330/795.5	10M QPSK 1RB#49	0.225	0.174	0.10	24.70	25.00	0.241	Battery 1#	Yes
Right tilt	/	23330/795.5	10M QPSK 1RB#49	0.106	0.084	0.10	24.70	25.00	0.114	Battery 1#	/
Left touch	/	23330/795.5	10M QPSK 50%RB#0	0.118	0.092	0.07	22.76	24.00	0.157	Battery 1#	/
Left tilt	/	23330/795.5	10M QPSK 50%RB#0	0.062	0.049	0.05	22.76	24.00	0.082	Battery 1#	/
Right touch	/	23330/795.5	10M QPSK 50%RB#0	0.144	0.111	0.03	22.76	24.00	0.192	Battery 1#	/
Right tilt	/	23330/795.5	10M QPSK 50%RB#0	0.066	0.052	0.12	22.76	24.00	0.088	Battery 1#	/
Right touch	/	23330/795.5	10M QPSK 1RB#49	0.217	0.169	0.07	24.70	25.00	0.233	Battery 2#	/
Right touch	/	23330/795.5	10M QPSK 1RB#49	0.218	0.169	0.06	24.70	25.00	0.234	Battery 3#	/

Table 263: Head SAR test results of LTE Band XIV

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	23330/795.5	10M QPSK 1RB#49	0.279	0.208	0.01	24.70	25.00	0.299	Battery 1#	/
Back Side	15mm	23330/795.5	10M QPSK 1RB#49	0.283	0.210	-0.01	24.70	25.00	0.303	Battery 1#	/
Front Side	15mm	23330/795.5	10M QPSK 50%RB#0	0.178	0.133	-0.02	22.76	24.00	0.237	Battery 1#	/
Back Side	15mm	23330/795.5	10M QPSK 50%RB#0	0.181	0.135	-0.02	22.76	24.00	0.241	Battery 1#	/
Back Side	15mm	23330/795.5	10M QPSK 1RB#49	0.284	0.210	0.05	24.70	25.00	0.304	Battery 2#	Yes
Back Side	15mm	23330/795.5	10M QPSK 1RB#49	0.284	0.210	0.02	24.70	25.00	0.304	Battery 3#	/

Table 264: Body-Worn SAR test results of LTE Band XIV

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	23330/793	10M QPSK 1RB#49	0.426	0.310	0.00	24.70	25.00	0.456	Battery 1#	Yes
Back Side	10mm	23330/793	10M QPSK 1RB#49	0.381	0.232	0.00	24.70	25.00	0.408	Battery 1#	/
Left Side	10mm	23330/793	10M QPSK 1RB#49	0.174	0.117	-0.04	24.70	25.00	0.186	Battery 1#	/
Right Side	10mm	23330/793	10M QPSK 1RB#49	0.337	0.233	0.04	24.70	25.00	0.361	Battery 1#	/
Bottom Side	10mm	23330/793	10M QPSK 1RB#49	0.217	0.117	0.08	24.70	25.00	0.233	Battery 1#	/
Front Side	10mm	23330/793	10M QPSK 50%RB#0	0.255	0.172	-0.01	22.76	24.00	0.339	Battery 1#	/
Back Side	10mm	23330/793	10M QPSK 50%RB#0	0.263	0.177	0.03	22.76	24.00	0.350	Battery 1#	/
Left Side	10mm	23330/793	10M QPSK 50%RB#0	0.111	0.075	-0.01	22.76	24.00	0.148	Battery 1#	/
Right Side	10mm	23330/793	10M QPSK 50%RB#0	0.203	0.141	0.00	22.76	24.00	0.270	Battery 1#	/
Bottom Side	10mm	23330/793	10M QPSK 50%RB#0	0.135	0.073	0.13	22.76	24.00	0.180	Battery 1#	/
Front Side	10mm	23330/793	10M QPSK 1RB#49	0.403	0.294	-0.03	24.70	25.00	0.432	Battery 2#	/
Front Side	10mm	23330/793	10M QPSK 1RB#49	0.377	0.277	-0.07	24.70	25.00	0.404	Battery 3#	/

Table 265: Hotspot SAR test results of LTE Band XIV

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.26 SAR measurement Result of LTE Band XVIII(main antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	23925/822.5	15M QPSK 1RB#0	0.097	0.075	0.07	23.58	24.50	0.119	Battery 1#	/
Left tilt	/	23925/822.5	15M QPSK 1RB#0	0.056	0.039	0.17	23.58	24.50	0.069	Battery 1#	/
Right touch	/	23925/822.5	15M QPSK 1RB#0	0.130	0.099	-0.11	23.58	24.50	0.161	Battery 1#	/
Right tilt	/	23925/822.5	15M QPSK 1RB#0	0.061	0.048	0.18	23.58	24.50	0.075	Battery 1#	/
Left touch	/	23925/822.5	15M QPSK 50%RB#39	0.095	0.073	0.15	22.62	23.50	0.116	Battery 1#	/
Left tilt	/	23925/822.5	15M QPSK 50%RB#39	0.055	0.038	0.12	22.62	23.50	0.067	Battery 1#	/
Right touch	/	23925/822.5	15M QPSK 50%RB#39	0.131	0.100	0.18	22.62	23.50	0.160	Battery 1#	Yes
Right tilt	/	23925/822.5	15M QPSK 50%RB#39	0.061	0.048	0.15	22.62	23.50	0.074	Battery 1#	/
Right touch	/	23925/822.5	15M QPSK 1RB#0	0.116	0.088	-0.10	23.58	24.50	0.143	Battery 2#	/
Right touch	/	23925/822.5	15M QPSK 1RB#0	0.112	0.086	0.13	23.58	24.50	0.138	Battery 3#	/

Table 266: Head SAR test results of LTE Band XVIII

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	23925/822.5	15M QPSK 1RB#0	0.134	0.099	-0.16	23.58	24.50	0.166	Battery 1#	/
Back Side	15mm	23925/822.5	15M QPSK 1RB#0	0.140	0.104	0.01	23.58	24.50	0.173	Battery 1#	Yes
Front Side	15mm	23925/822.5	15M QPSK 50%RB#39	0.128	0.094	0.00	22.62	23.50	0.157	Battery 1#	/
Back Side	15mm	23925/822.5	15M QPSK 50%RB#39	0.132	0.098	0.06	22.62	23.50	0.162	Battery 1#	/
Back Side	15mm	23925/822.5	15M QPSK 1RB#0	0.126	0.094	0.01	23.58	24.50	0.156	Battery 2#	/
Back Side	15mm	23925/822.5	15M QPSK 1RB#0	0.124	0.098	0.03	23.58	24.50	0.153	Battery 3#	/

Table 267: Body-Worn SAR test results of LTE Band XVIII

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	23925/822.5	15M QPSK 1RB#0	0.184	0.132	-0.06	23.58	24.50	0.227	Battery 1#	/
Back Side	10mm	23925/822.5	15M QPSK 1RB#0	0.187	0.113	0.00	23.58	24.50	0.231	Battery 1#	/
Left Side	10mm	23925/822.5	15M QPSK 1RB#0	0.060	0.041	-0.03	23.58	24.50	0.075	Battery 1#	/
Right Side	10mm	23925/822.5	15M QPSK 1RB#0	0.165	0.112	0.02	23.58	24.50	0.204	Battery 1#	/
Bottom Side	10mm	23925/822.5	15M QPSK 1RB#0	0.104	0.054	0.16	23.58	24.50	0.129	Battery 1#	/
Front Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.181	0.129	0.02	22.62	23.50	0.222	Battery 1#	/
Back Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.186	0.112	0.01	22.62	23.50	0.228	Battery 1#	/
Left Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.045	0.031	-0.07	22.62	23.50	0.056	Battery 1#	/
Right Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.148	0.101	-0.03	22.62	23.50	0.181	Battery 1#	/
Bottom Side	10mm	23925/822.5	15M QPSK 50%RB#39	0.104	0.054	-0.08	22.62	23.50	0.127	Battery 1#	/
Back Side	10mm	23925/822.5	15M QPSK 1RB#0	0.188	0.114	0.01	23.58	24.50	0.232	Battery 2#	Yes
Back Side	10mm	23925/822.5	15M QPSK 1RB#0	0.188	0.113	0.02	23.58	24.50	0.232	Battery 3#	/

Table 268: Hotspot SAR test results of LTE Band XVIII

Note: Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.27 SAR measurement Result of LTE Band XXX(main antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	27710/2310	10M QPSK 1RB#25	0.071	0.038	-0.15	24.05	25.00	0.088	Battery 1#	/
Left tilt	/	27710/2310	10M QPSK 1RB#25	0.045	0.022	-0.02	24.05	25.00	0.056	Battery 1#	/
Right touch	/	27710/2310	10M QPSK 1RB#25	0.120	0.066	-0.15	24.05	25.00	0.149	Battery 1#	/
Right tilt	/	27710/2310	10M QPSK 1RB#25	0.074	0.035	0.09	24.05	25.00	0.092	Battery 1#	/
Left touch	/	27710/2310	10M QPSK 50%RB#25	0.042	0.022	-0.15	22.52	24.00	0.059	Battery 1#	/
Left tilt	/	27710/2310	10M QPSK 50%RB#25	0.028	0.014	-0.11	22.52	24.00	0.039	Battery 1#	/
Right touch	/	27710/2310	10M QPSK 50%RB#25	0.071	0.038	-0.13	22.52	24.00	0.099	Battery 1#	/
Right tilt	/	27710/2310	10M QPSK 50%RB#25	0.027	0.013	-0.06	22.52	24.00	0.038	Battery 1#	/
Right touch	/	27710/2310	10M QPSK 1RB#25	0.086	0.047	0.16	24.05	25.00	0.107	Battery 2#	/
Right touch	/	27710/2310	10M QPSK 1RB#25	0.142	0.081	-0.19	24.05	25.00	0.177	Battery 3#	Yes

Table 269: Head SAR test results of LTE Band XXX

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	27710/2310	10M QPSK 1RB#25	0.354	0.200	-0.18	24.05	25.00	0.441	Battery 1#	/
Back Side	15mm	27710/2310	10M QPSK 1RB#25	0.361	0.205	0.02	24.05	25.00	0.449	Battery 1#	/
Front Side	15mm	27710/2310	10M QPSK 50%RB#25	0.227	0.124	-0.05	22.52	24.00	0.319	Battery 1#	/
Back Side	15mm	27710/2310	10M QPSK 50%RB#25	0.222	0.123	0.05	22.52	24.00	0.312	Battery 1#	/
Back Side	15mm	27710/2310	10M QPSK 1RB#25	0.346	0.197	-0.01	24.05	25.00	0.431	Battery 2#	/
Back Side	15mm	27710/2310	10M QPSK 1RB#25	0.375	0.217	-0.08	24.05	25.00	0.467	Battery 3#	Yes

Table 270: Body-Worn SAR test results of LTE Band XXX

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	27710/2310	10M QPSK 1RB#25	0.437	0.182	-0.10	21.72	22.00	0.466	Battery 1#	/
Back Side	10mm	27710/2310	10M QPSK 1RB#25	0.380	0.216	0.00	21.72	22.00	0.405	Battery 1#	/
Left Side	10mm	27710/2310	10M QPSK 1RB#25	0.140	0.061	-0.01	21.72	22.00	0.149	Battery 1#	/
Right Side	10mm	27710/2310	10M QPSK 1RB#25	0.066	0.034	0.02	21.72	22.00	0.071	Battery 1#	/
Bottom Side	10mm	27710/2310	10M QPSK 1RB#25	0.719	0.394	0.10	21.72	22.00	0.767	Battery 1#	Yes
Front Side	10mm	27710/2310	10M QPSK 50%RB#25	0.418	0.222	-0.03	21.10	22.00	0.514	Battery 1#	/
Back Side	10mm	27710/2310	10M QPSK 50%RB#25	0.447	0.241	0.03	21.10	22.00	0.550	Battery 1#	/
Left Side	10mm	27710/2310	10M QPSK 50%RB#25	0.159	0.069	0.13	21.10	22.00	0.196	Battery 1#	/
Right Side	10mm	27710/2310	10M QPSK 50%RB#25	0.046	0.023	0.05	21.10	22.00	0.056	Battery 1#	/
Bottom Side	10mm	27710/2310	10M QPSK 50%RB#25	0.615	0.335	0.10	21.10	22.00	0.757	Battery 1#	/
Bottom Side	10mm	27710/2310	10M QPSK 100%RB#0	0.586	0.323	0.12	21.20	22.00	0.705	Battery 1#	/
Bottom Side	10mm	27710/2310	10M QPSK 1RB#25	0.576	0.303	0.11	21.72	22.00	0.614	Battery 2#	/
Bottom Side	10mm	27710/2310	10M QPSK 1RB#25	0.553	0.293	0.01	21.72	22.00	0.590	Battery 3#	/

Table 271: Hotspot SAR test results of LTE Band XXX

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	27710/2310	10M QPSK 1RB#25	0.437	0.182	-0.10	21.72	22.00	0.930	Battery 1#	Yes
Back Side	10mm	27710/2310	10M QPSK 1RB#25	0.380	0.216	0.00	21.72	22.00	0.809	Battery 1#	Yes
Left Side	10mm	27710/2310	10M QPSK 1RB#25	0.140	0.061	-0.01	21.72	22.00	0.298	Battery 1#	Yes
Right Side	10mm	27710/2310	10M QPSK 1RB#25	0.066	0.034	0.02	21.72	22.00	0.141	Battery 1#	Yes
Bottom Side	10mm	27710/2310	10M QPSK 1RB#25	0.719	0.394	0.10	21.72	22.00	1.530	Battery 1#	No
Front Side	10mm	27710/2310	10M QPSK 50%RB#25	0.418	0.222	-0.03	21.10	22.00	1.026	Battery 1#	Yes
Back Side	10mm	27710/2310	10M QPSK 50%RB#25	0.447	0.241	0.03	21.10	22.00	1.097	Battery 1#	Yes
Left Side	10mm	27710/2310	10M QPSK 50%RB#25	0.159	0.069	0.13	21.10	22.00	0.390	Battery 1#	Yes
Right Side	10mm	27710/2310	10M QPSK 50%RB#25	0.046	0.023	0.05	21.10	22.00	0.112	Battery 1#	Yes
Bottom Side	10mm	27710/2310	10M QPSK 50%RB#25	0.615	0.335	0.10	21.10	22.00	1.510	Battery 1#	No
Bottom Side	10mm	27710/2310	10M QPSK 100%RB#0	0.586	0.323	0.12	21.20	22.00	1.406	Battery 1#	No
Bottom Side	10mm	27710/2310	10M QPSK 1RB#25	0.576	0.303	0.11	21.72	22.00	1.226	Battery 2#	No
Bottom Side	10mm	27710/2310	10M QPSK 1RB#25	0.553	0.293	0.01	21.72	22.00	1.177	Battery 3#	Yes

Table 272:Product Specific 10-g SAR test reduction evaluation of LTE Band XXX

Note:

1) According to the table above, only **Bottom Side** Product Specific 10-g SAR test is required for this frequency band.

Product Specific 10-g SAR	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 10-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Bottom Side	0mm	27710/2310	10M QPSK 1RB#25	1.810	0.961	0.15	22.70	24.00	1.296	Battery 1#	Yes
Bottom Side	0mm	27710/2310	10M QPSK 50%RB#0	1.440	0.755	0.19	22.06	24.00	1.180	Battery 1#	/
Bottom Side	0mm	27710/2310	10M QPSK 1RB#25	1.720	0.858	-0.12	22.70	24.00	1.157	Battery 2#	/
Bottom Side	0mm	27710/2310	10M QPSK 1RB#25	1.410	0.719	0.08	22.70	24.00	0.970	Battery 3#	/
Additional SAR Test with Sensor off											
Bottom Side	8mm	27710/2310	10M QPSK 1RB#25	1.700	0.920	0.07	24.05	25.00	1.145	Battery 2#	/
Bottom Side	8mm	27710/2310	10M QPSK 50%RB#25	1.180	0.639	0.10	22.52	24.00	0.898	Battery 2#	/

Table 273: Product Specific 10-g SAR test results of LTE Band XXX

7.2.28 SAR measurement Result of LTE Band LXVI(main antenna)

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Left touch	/	132572/1770	20M QPSK 1RB#99	0.156	0.103	0.19	23.91	25.00	0.201	Battery 1#	/
Left tilt	/	132572/1770	20M QPSK 1RB#99	0.045	0.028	0.11	23.91	25.00	0.057	Battery 1#	/
Right touch	/	132572/1770	20M QPSK 1RB#99	0.104	0.069	0.14	23.91	25.00	0.134	Battery 1#	/
Right tilt	/	132572/1770	20M QPSK 1RB#99	0.109	0.058	0.14	23.91	25.00	0.140	Battery 1#	/
Left touch	/	132572/1770	20M QPSK 50%RB#50	0.099	0.066	0.10	22.60	24.00	0.137	Battery 1#	/
Left tilt	/	132572/1770	20M QPSK 50%RB#50	0.028	0.017	0.14	22.60	24.00	0.038	Battery 1#	/
Right touch	/	132572/1770	20M QPSK 50%RB#50	0.065	0.039	0.16	22.60	24.00	0.090	Battery 1#	/
Right tilt	/	132572/1770	20M QPSK 50%RB#50	0.077	0.040	0.19	22.60	24.00	0.106	Battery 1#	/
Left touch	/	132572/1770	20M QPSK 1RB#99	0.183	0.118	0.01	23.91	25.00	0.235	Battery 2#	Yes
Left touch	/	132572/1770	20M QPSK 1RB#99	0.177	0.116	-0.14	23.91	25.00	0.227	Battery 3#	/
Left touch	/	132072/1720	20M QPSK 1RB#99	0.161	0.096	0.13	23.85	25.00	0.210	Battery 1#	/
Left touch	/	132322/1745	20M QPSK 1RB#99	0.172	0.103	0.15	23.74	25.00	0.230	Battery 1#	/

Table 274: Head SAR test results of LTE Band LXVI

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	15mm	132572/1770	20M QPSK 1RB#99	0.647	0.381	0.15	23.91	25.00	0.832	Battery 1#	Yes
Front Side	15mm	132072/1720	20M QPSK 1RB#99	0.571	0.337	0.06	23.85	25.00	0.744	Battery 1#	/
Front Side	15mm	132322/1745	20M QPSK 1RB#99	0.600	0.354	0.05	23.74	25.00	0.802	Battery 1#	/
Back Side	15mm	132572/1770	20M QPSK 1RB#99	0.564	0.333	0.08	23.91	25.00	0.725	Battery 1#	/
Front Side	15mm	132572/1770	20M QPSK 50%RB#50	0.428	0.250	0.11	22.60	24.00	0.591	Battery 1#	/
Back Side	15mm	132572/1770	20M QPSK 50%RB#50	0.364	0.206	0.15	22.60	24.00	0.502	Battery 1#	/
Front Side	15mm	132072/1720	20M QPSK 100%RB#0	0.545	0.309	-0.02	22.52	24.00	0.766	Battery 1#	/
Front Side	15mm	132572/1770	20M QPSK 1RB#99	0.576	0.333	-0.01	23.91	25.00	0.740	Battery 2#	/
Front Side	15mm	132572/1770	20M QPSK 1RB#99	0.563	0.317	-0.02	23.91	25.00	0.724	Battery 3#	/

Table 275: Body-Worn SAR test results of LTE Band LXVI

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	10mm	132322/1745	20M QPSK 1RB#99	0.340	0.185	0.09	19.28	19.50	0.358	Battery 1#	/
Back Side	10mm	132322/1745	20M QPSK 1RB#99	0.304	0.171	0.08	19.28	19.50	0.320	Battery 1#	/
Left Side	10mm	132322/1745	20M QPSK 1RB#99	0.034	0.020	-0.08	19.28	19.50	0.036	Battery 1#	/
Right Side	10mm	132322/1745	20M QPSK 1RB#99	0.053	0.029	-0.12	19.28	19.50	0.055	Battery 1#	/
Bottom Side	10mm	132322/1745	20M QPSK 1RB#99	0.609	0.320	-0.07	19.28	19.50	0.641	Battery 1#	/
Front Side	10mm	132322/1745	20M QPSK 50%RB#0	0.321	0.175	-0.09	19.27	19.50	0.338	Battery 1#	/
Back Side	10mm	132322/1745	20M QPSK 50%RB#0	0.290	0.163	-0.06	19.27	19.50	0.306	Battery 1#	/
Left Side	10mm	132322/1745	20M QPSK 50%RB#0	0.032	0.019	-0.17	19.27	19.50	0.034	Battery 1#	/
Right Side	10mm	132322/1745	20M QPSK 50%RB#0	0.053	0.029	-0.18	19.27	19.50	0.056	Battery 1#	/
Bottom Side	10mm	132322/1745	20M QPSK 50%RB#0	0.571	0.300	0.05	19.27	19.50	0.602	Battery 1#	/
Bottom Side	10mm	132322/1745	20M QPSK 1RB#99	0.613	0.323	0.13	19.28	19.50	0.645	Battery 2#	Yes
Bottom Side	10mm	132322/1745	20M QPSK 1RB#99	0.612	0.322	0.05	19.28	19.50	0.644	Battery 3#	/

Table 276: Hotspot SAR test results of LTE Band LXVI

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	Product Specific 10-g SAR Exclusion
				1-g	10-g						
Front Side	10mm	132322/1745	20M QPSK 1RB#99	0.340	0.185	0.09	19.28	25.00	1.269	Battery 1#	No
Back Side	10mm	132322/1745	20M QPSK 1RB#99	0.304	0.171	0.08	19.28	25.00	1.135	Battery 1#	Yes
Left Side	10mm	132322/1745	20M QPSK 1RB#99	0.034	0.020	-0.08	19.28	25.00	0.127	Battery 1#	Yes
Right Side	10mm	132322/1745	20M QPSK 1RB#99	0.053	0.029	-0.12	19.28	25.00	0.197	Battery 1#	Yes
Bottom Side	10mm	132322/1745	20M QPSK 1RB#99	0.609	0.320	-0.07	19.28	25.00	2.273	Battery 1#	No
Front Side	10mm	132322/1745	20M QPSK 50%RB#0	0.321	0.175	-0.09	19.27	24.00	0.954	Battery 1#	Yes
Back Side	10mm	132322/1745	20M QPSK 50%RB#0	0.290	0.163	-0.06	19.27	24.00	0.862	Battery 1#	Yes
Left Side	10mm	132322/1745	20M QPSK 50%RB#0	0.032	0.019	-0.17	19.27	24.00	0.095	Battery 1#	Yes
Right Side	10mm	132322/1745	20M QPSK 50%RB#0	0.053	0.029	-0.18	19.27	24.00	0.158	Battery 1#	Yes
Bottom Side	10mm	132322/1745	20M QPSK 50%RB#0	0.571	0.300	0.05	19.27	24.00	1.697	Battery 1#	No
Bottom Side	10mm	132322/1745	20M QPSK 1RB#99	0.613	0.323	0.13	19.28	25.00	2.288	Battery 2#	No
Bottom Side	10mm	132322/1745	20M QPSK 1RB#99	0.612	0.322	0.05	19.28	25.00	2.284	Battery 3#	No

Table 277:Product Specific 10-g SAR test reduction evaluation of LTE Band LXVI

Note: According to the table above, **Front/Bottom Side** Product Specific 10-g SAR test is required for this frequency band.

Product Specific 10-g SAR	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 10-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Front Side	0mm	132322/1745	20M QPSK 1RB#99	5.240	2.320	0.15	21.90	22.50	2.664	Battery 1#	/
Front Side	0mm	132072/1720	20M QPSK 1RB#99	5.310	2.280	0.15	21.49	22.50	2.877	Battery 1#	/
Front Side	0mm	132572/1770	20M QPSK 1RB#99	5.320	2.310	0.19	21.67	22.50	2.796	Battery 1#	/
Bottom Side	0mm	132322/1745	20M QPSK 1RB#99	5.040	2.260	0.09	21.90	22.50	2.595	Battery 1#	/
Bottom Side	0mm	132072/1720	20M QPSK 1RB#99	6.020	2.830	0.11	21.49	22.50	3.571	Battery 1#	Yes
Bottom Side	0mm	132572/1770	20M QPSK 1RB#99	4.820	2.260	0.05	21.67	22.50	2.736	Battery 1#	/
Front Side	0mm	132322/1745	20M QPSK 50%RB#0	5.330	2.310	0.17	21.67	22.50	2.796	Battery 1#	/
Front Side	0mm	132072/1720	20M QPSK 50%RB#50	3.950	2.050	0.18	21.62	22.50	2.510	Battery 1#	/
Front Side	0mm	132572/1770	20M QPSK 50%RB#0	5.350	2.320	0.15	21.71	22.50	2.783	Battery 1#	/
Bottom Side	0mm	132322/1745	20M QPSK 50%RB#0	4.690	2.250	0.09	21.67	22.50	2.724	Battery 1#	/
Bottom Side	0mm	132072/1720	20M QPSK 50%RB#50	5.170	2.490	0.08	21.62	22.50	3.049	Battery 1#	/
Bottom Side	0mm	132572/1770	20M QPSK 50%RB#0	5.270	2.460	0.10	21.71	22.50	2.951	Battery 1#	/
Front Side	0mm	132572/1770	20M QPSK 100%RB#0	4.870	2.490	0.13	21.77	22.50	2.946	Battery 1#	/
Bottom Side	0mm	132572/1770	20M QPSK 100%RB#0	5.230	2.430	0.09	21.77	22.50	2.875	Battery 1#	/
Bottom Side	0mm	132072/1720	20M QPSK 1RB#99	4.890	2.360	0.07	21.49	22.50	2.978	Battery 2#	/
Bottom Side	0mm	132072/1720	20M QPSK 1RB#99	4.870	2.340	0.10	21.49	22.50	2.953	Battery 3#	/
Additional SAR test at worst case at position of 0mm with protected cover											
Bottom Side	0mm	132072/1720	20M QPSK 1RB#99	5.270	2.500	0.17	21.49	22.50	3.155	Battery 1# Protected cover1#	/
Bottom Side	0mm	132072/1720	20M QPSK 1RB#99	5.450	2.640	0.09	21.49	22.50	3.331	Battery 1# Protected cover2#	/
Additional SAR test with Sensor off											
Front Side	8mm	132572/1770	20M QPSK 1RB#99	2.010	1.040	0.05	23.91	25.00	1.337	Battery 1#	/
Bottom Side	8mm	132572/1770	20M QPSK 1RB#99	2.790	1.430	0.09	23.91	25.00	1.838	Battery 1#	/
Front Side	8mm	132572/1770	20M QPSK 50%RB#50	1.170	0.640	-0.16	22.60	24.00	0.883	Battery 1#	/
Bottom Side	8mm	132572/1770	20M QPSK 50%RB#50	1.970	1.060	-0.05	22.60	24.00	1.463	Battery 1#	/

Table 278: Product Specific 10-g SAR test results of LTE Band LXVI

7.2.29 SAR Result of Inter-band uplink CA

For Uplink CA_2A-12A, the LTE B12 should be set on Second antenna and LTE B2 was set on Main Antenna, while the opposite setting was not supported by design. The conservative “max + max” multi-Tx and SAR Down-scaling method is used to evaluate the inter-band UL CA SAR from Non-CA LTE SAR test results:

- 1) The PCC and SCC were configured the same with Non-CA LTE.
- 2) Scale down the SAR value from the Non-CA LTE SAR results to all the test configurations according to the maximum output power tune-up limit.
- 3) Apply the regular “max + max” multi-Tx method to combine the scaled-down SAR value from the Non-CA LTE SAR results as the inter-band UL CA SAR

Test Position	CC MOD	UL allocation										DOWN SCALED SAR			Maximun SAR
		NRB_alloc	PCC&SCC RB allocations						Tune up(dbm)						
			LCRB@Rbstart												
			Configuration												
			PCC			SCC			PCC	SCC	Total	PCC 1g	SCC 1g	Multi-TX	
Channel	Antenna	RB allocations	Channel	Antenna	RB allocations										
Head (Left touch)	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	24.0	23.0	NA	0.131	0.769	NA	
	QPSK	75	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	22.0	20.0	24.20	0.083	0.385	0.468	
	QPSK	75	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	20.0	19.0	22.5	0.052	0.306	0.358	
Head (Left tilt)	Non CA mode		19100	Main	B2_1RB@99	23130	Sec	B12_25RB@0	25.0	23.0	NA	0.038	0.534	NA	
	QPSK	75	19100	Main	B2_1RB@99	23130	Sec	B12_25RB@0	22.0	20.0	24.20	0.019	0.268	0.287	
	QPSK	75	23130	Sec	B12_25RB@0	19100	Main	B2_1RB@99	20.0	19.0	22.5	0.012	0.213	0.225	
Head (Right touch)	Non CA mode		19100	Main	B2_1RB@99	23130	Sec	B12_1RB@49	25.0	22.5	NA	0.089	0.604	NA	
	QPSK	75	19100	Main	B2_1RB@99	23130	Sec	B12_1RB@49	22.0	20.0	24.20	0.045	0.340	0.384	
	QPSK	75	23130	Sec	B12_1RB@49	19100	Main	B2_1RB@99	20.0	19.0	22.5	0.028	0.270	0.298	
Head (Right tilt)	Non CA mode		19100	Main	B2_1RB@99	23130	Sec	B12_1RB@49	25.0	22.5	NA	0.068	0.437	NA	
	QPSK	75	19100	Main	B2_1RB@99	23130	Sec	B12_1RB@49	22.0	20.0	24.20	0.034	0.246	0.280	
	QPSK	75	23130	Sec	B12_1RB@49	19100	Main	B2_1RB@99	20.0	19.0	22.5	0.022	0.195	0.217	
BodyWorn Front Side 15mm	Non CA mode		18700	Main	B2_50RB@50	23130	Sec	B12_1RB@49	24.0	24.5	NA	0.462	0.139	NA	
	QPSK	2	18700	Main	B2_50RB@50	23130	Sec	B12_1RB@49	22.0	20.0	24.20	0.292	0.049	0.341	
	QPSK	2	23130	Sec	B12_1RB@49	18700	Main	B2_50RB@50	20.0	19.0	22.5	0.184	0.039	0.223	
BodyWorn Back Side 15mm	Non CA mode		18700	Main	B2_50RB@50	23130	Sec	B12_1RB@49	24.0	24.5	NA	0.556	0.130	NA	
	QPSK	2	18700	Main	B2_50RB@50	23130	Sec	B12_1RB@49	22.0	20.0	24.20	0.351	0.046	0.397	
	QPSK	2	23130	Sec	B12_1RB@49	18700	Main	B2_50RB@50	20.0	19.0	22.5	0.221	0.037	0.258	
HOTSPOT Front Side 10mm	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.5	21.5	NA	0.372	0.091	NA	
	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.5	20.0	23.0	0.372	0.064	0.436	
	QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	20.0	19.0	22.5	0.417	0.051	0.469	
HOTSPOT Back Side 10mm	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.5	21.5	NA	0.324	0.127	NA	
	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.5	20.0	23.0	0.324	0.090	0.414	
	QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	20.0	19.0	22.5	0.364	0.071	0.435	
HOTSPOT Left Side10mm	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.5	21.5	NA	0.027	0.086	NA	
	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.5	20.0	23.0	0.027	0.061	0.088	
	QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	20.0	19.0	22.5	0.030	0.048	0.079	
HOTSPOT Right Side 10mm	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.5	21.5	NA	0.049	0.024	NA	
	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.5	20.0	23.0	0.049	0.017	0.066	
	QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	20.0	19.0	22.5	0.055	0.013	0.068	
HOTSPOT Top Side 10mm	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.5	21.5	NA	0.000	0.083	NA	
	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.5	20.0	23.0	0.000	0.059	0.059	
	QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	20.0	19.0	22.5	0.000	0.047	0.047	
HOTSPOT Bottom Side 10mm	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.5	21.5	NA	0.764	0.000	NA	
	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.5	20.0	23.0	0.764	0.000	0.764	
	QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	20.0	19.0	22.5	0.857	0.000	0.857	

Table 279: SAR Down-scaling results of UL inter-band CA from Non-CA LTE SAR

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position	CC MOD	UL allocation										DOWN SCALED SAR		Maximun SAR	
		NRB_alloc	PCC&SCC RB allocations							Tune up(dbm)					
			LCRB@Rbstart												
			Configuration												
			PCC			SCC				PCC	SCC	Total	PCC	SCC	Multi-TX
Channel	Antenna	RB allocations	Channel	Antenna	RB allocations	1g	1g								
HOTSPOT Front Side 10mm	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.5	21.5	NA	0.372	0.091	NA	
	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	22.0	20.0	23.0	0.662	0.064	0.726	
	QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	20.0	19.0	22.5	0.417	0.051	0.469	
HOTSPOT Back Side 10mm	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.5	21.5	NA	0.324	0.127	NA	
	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	22.0	20.0	23.0	0.576	0.090	0.666	
	QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	20.0	19.0	22.5	0.364	0.071	0.435	
HOTSPOT Left Side10mm	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.5	21.5	NA	0.027	0.086	NA	
	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	22.0	20.0	23.0	0.048	0.061	0.109	
	QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	20.0	19.0	22.5	0.030	0.048	0.079	
HOTSPOT Right Side 10mm	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.5	21.5	NA	0.049	0.024	NA	
	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	22.0	20.0	23.0	0.087	0.017	0.104	
	QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	20.0	19.0	22.5	0.055	0.013	0.068	
HOTSPOT Top Side 10mm	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.5	21.5	NA	0.000	0.083	NA	
	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	22.0	20.0	23.0	0.000	0.059	0.059	
	QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	20.0	19.0	22.5	0.000	0.047	0.047	
HOTSPOT Bottom Side 10mm	Non CA mode		18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	19.5	21.5	NA	0.764	0.000	NA	
	QPSK	2	18700	Main	B2_50RB@50	23060	Sec	B12_25RB@25	22.0	20.0	23.0	1.359	0.000	1.359	
	QPSK	2	23060	Sec	B12_25RB@25	18700	Main	B2_50RB@50	20.0	19.0	22.5	0.857	0.000	0.857	

Table 280: Product Specific 10-g SAR test reduction evaluation of UL inter-band CA

Note: According to the table above, **Bottom Side** Down-scaling Product Specific 10-g SAR test is required for this frequency band.

Test Position	CC MOD	NRB_alloc	UL allocation									DOWN SCALED SAR			Maximun SAR
			PCC&SCC RB allocations						Tune up(dbm)						
			LCRB@Rbstart												
			Configuration												
			PCC			SCC			PCC	SCC	Total	PCC 10g	SCC 10g	Multi-TX	
			Channel	Antenna	RB allocations	Channel	Antenna	RB allocations							
Product Specific 10-g SAR Bottom Side 0mm	Non CA mode		18900	Main	B2_1RB@0	23130	Sec	B12_1RB@49	23.0	24.5	NA	1.809	0.646	NA	
	QPSK	2	18900	Main	B2_1RB@0	23130	Sec	B12_1RB@49	22.0	20.0	23.0	1.437	0.229	1.666	
	QPSK	2	23130	Sec	B12_1RB@49	18900	Main	B2_1RB@0	20.0	19.0	22.5	0.907	0.182	1.089	

Table 281: Down-scaling Product Specific 10-g SAR test reduction evaluation of UL inter-band CA

7.2.30 SAR measurement Result of WiFi 2.4G

Test Position of Head	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Left touch	6/2437	802.11 b	0.296	0.325	0.152	0.14	99%	0.328	11.35	11.50	0.340	Battery 1#	/
Left tilt	6/2437	802.11 b	0.253	0.279	0.125	0.08	99%	0.282	11.35	11.50	0.292	Battery 1#	/
Right touch	6/2437	802.11 b	0.127	0.133	0.068	-0.02	99%	0.134	11.35	11.50	0.139	Battery 1#	/
Right tilt	6/2437	802.11 b	0.164	0.167	0.079	0.16	99%	0.169	11.35	11.50	0.175	Battery 1#	/
Left touch	6/2437	802.11 b	0.351	0.329	0.153	0.15	99%	0.332	11.35	11.50	0.344	Battery 2#	Yes
Left touch	6/2437	802.11 b	0.361	0.310	0.145	0.00	99%	0.313	11.35	11.50	0.324	Battery 3#	/

Table 282: Head SAR test results of WiFi 2.4G ANT1

Mode	Tune-up (dBm)	Tune-up (mW)	Highest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11b	11.50	14.13	0.344	/	Yes
802.11g	11.50	14.13	/	0.344	No
802.11n 20M	11.50	14.13	/	0.344	No

Note: Per KDB248227D01, for Head SAR test of WiFi 2.4G ANT1, SAR is measured for 2.4 GHz 802.11b DSSS using the initial test position procedure. The highest *reported* SAR for DSSS is adjusted by the ratio of OFDM 802.11g/n to DSSS specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for 802.11g/n is not required.

Test Position of Body-Worn With 15mm	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Front Side	6/2437	802.11 b	0.133	0.136	0.080	0.02	99%	0.137	17.92	18.50	0.157	Battery 1#	Yes
Back Side	6/2437	802.11 b	0.117	/	/	-0.17	99%	/	17.92	18.50	/	Battery 1#	/
Front Side	6/2437	802.11 b	0.116	0.118	0.069	-0.12	99%	0.119	17.92	18.50	0.136	Battery 2#	/
Front Side	6/2437	802.11 b	0.118	0.119	0.070	-0.04	99%	0.120	17.92	18.50	0.137	Battery 3#	/

Table 283: Body-Worn SAR test results of WiFi 2.4G ANT1

Mode	Tune-up (dBm)	Tune-up (mW)	Highest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11b	18.50	70.79	0.157	/	Yes
802.11g	16.50	44.67	/	0.099	No
802.11n 20M	15.50	35.48	/	0.079	No

Note: Per KDB248227D01, for Body-Worn SAR test of WiFi 2.4G ANT1, SAR is measured for 2.4 GHz 802.11b DSSS using the initial test position procedure. The highest *reported* SAR for DSSS is adjusted by the ratio of OFDM 802.11g/n to DSSS specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for 802.11g/n is not required.

Test Position of Hotspot with 10mm	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Front Side	6/2437	802.11 b	0.241	0.248	0.141	-0.08	99%	0.251	17.92	18.50	0.286	Battery 1#	/
Back Side	6/2437	802.11 b	0.265	0.274	0.127	0.01	99%	0.277	17.92	18.50	0.316	Battery 1#	/
Right Side	6/2437	802.11 b	0.172	/	/	-0.17	99%	/	17.92	18.50	/	Battery 1#	/
Top Side	6/2437	802.11 b	0.487	0.479	0.250	-0.13	99%	0.484	17.92	18.50	0.553	Battery 1#	/
Top Side	6/2437	802.11 b	0.486	0.481	0.249	-0.06	99%	0.486	17.92	18.50	0.555	Battery 2#	/
Top Side	6/2437	802.11 b	0.480	0.484	0.050	0.03	99%	0.489	17.92	18.50	0.559	Battery 3#	/

Table 284: Hotspot SAR test results of WiFi 2.4G ANT1

Mode	Tune-up (dBm)	Tune-up (mW)	Highest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11b	18.50	70.79	0.559	/	Yes
802.11g	16.50	44.67	/	0.353	No
802.11n 20M	15.50	35.48	/	0.280	No

Note:

- 1) Per KDB248227D01, for Hotspot SAR test of WiFi 2.4G ANT1, SAR is measured for 2.4 GHz 802.11b DSSS using the initial test position procedure. The highest reported SAR for DSSS is adjusted by the ratio of OFDM 802.11g/n to DSSS specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for 802.11g/n is not required.
- 2) Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

Test Position of Head	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Left touch	1/2412	802.11 b	0.194	0.179	0.071	0.01	99%	0.181	19.12	19.50	0.197	Battery 1#	/
Left tilt	1/2412	802.11 b	0.167	0.167	0.075	-0.01	99%	0.169	19.12	19.50	0.184	Battery 1#	/
Right touch	1/2412	802.11 b	0.139	0.139	0.064	-0.07	99%	0.140	19.12	19.50	0.153	Battery 1#	/
Right tilt	1/2412	802.11 b	0.108	0.108	0.057	-0.05	99%	0.109	19.12	19.50	0.119	Battery 1#	/
Left touch	1/2412	802.11 b	0.152	0.152	0.073	0.05	99%	0.154	19.12	19.50	0.168	Battery 2#	/
Left touch	1/2412	802.11 b	0.174	0.174	0.080	0.13	99%	0.176	19.12	19.50	0.192	Battery 3#	/

Table 285: Head SAR test results of WiFi 2.4G ANT2

Mode	Tune-up (dBm)	Tune-up (mW)	Hightest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11b	19.50	89.13	0.197	/	Yes
802.11g	16.00	39.81	/	0.088	No
802.11n 20M	14.50	28.18	/	0.062	No

Note: Per KDB248227D01, for Head SAR test of WiFi 2.4G ANT2, SAR is measured for 2.4 GHz 802.11b DSSS using the initial test position procedure. The highest *reported* SAR for DSSS is adjusted by the ratio of OFDM 802.11g/n to DSSS specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for 802.11g/n is not required.

Test Position of Body-Worn with 15mm	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Front Side	6/2437	802.11 b	0.122	0.122	0.069	-0.11	99%	0.123	17.29	18.00	0.145	Battery 1#	/
Back Side	6/2437	802.11 b	0.113	0.113	0.065	-0.04	99%	0.114	17.29	18.00	0.134	Battery 1#	/
Front Side	6/2437	802.11 b	0.121	0.122	0.069	0.15	99%	0.123	17.29	18.00	0.145	Battery 2#	/
Front Side	6/2437	802.11 b	0.123	0.124	0.070	0.04	99%	0.125	17.29	18.00	0.147	Battery 3#	/

Table 286: Body-Worn SAR test results of WiFi 2.4G ANT2

Mode	Tune-up (dBm)	Tune-up (mW)	Hightest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11b	18.00	63.10	0.147	/	Yes
802.11g	16.00	39.81	/	0.093	No
802.11n 20M	14.50	28.18	/	0.066	No

Note: Per KDB248227D01, for Body-Worn SAR test of WiFi 2.4G ANT2, SAR is measured for 2.4 GHz 802.11b DSSS using the initial test position procedure. The highest *reported* SAR for DSSS is adjusted by the ratio of OFDM 802.11g/n to DSSS specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for 802.11g/n is not required.

Test Position of Hotspot with 10mm	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Front Side	6/2437	802.11 b	0.027	0.025	0.011	-0.14	99%	0.026	17.29	18.00	0.030	Battery 1#	/
Back Side	6/2437	802.11 b	0.405	0.496	0.199	-0.03	99%	0.501	17.29	18.00	0.590	Battery 1#	/
Right Side	6/2437	802.11 b	0.013	0.012	0.006	-0.19	99%	0.012	17.29	18.00	0.014	Battery 1#	/
Top Side	6/2437	802.11 b	0.081	0.086	0.042	0.11	99%	0.087	17.29	18.00	0.103	Battery 1#	/
Back Side	6/2437	802.11 b	0.438	0.518	0.212	-0.13	99%	0.523	17.29	18.00	0.616	Battery 2#	Yes
Back Side	6/2437	802.11 b	0.394	0.477	0.190	-0.15	99%	0.482	17.29	18.00	0.567	Battery 3#	/

Table 287: Hotspot SAR test results of WiFi 2.4G ANT2

Mode	Tune-up (dBm)	Tune-up (mW)	Highest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11b	18.00	63.10	0.616	/	Yes
802.11g	16.00	39.81	/	0.389	No
802.11n 20M	14.50	28.18	/	0.275	No

Note:

- 1) Per KDB248227D01, for Hotspot SAR test of WiFi 2.4G ANT2, SAR is measured for 2.4 GHz 802.11b DSSS using the initial test position procedure. The highest reported SAR for DSSS is adjusted by the ratio of OFDM 802.11g/n to DSSS specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for 802.11g/n is not required.
- 2) Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

Test Position of Head	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
ANT1													
Left touch	6/2437	802.11g	0.359	0.304	0.141	0.17	97%	0.313	10.40	11.50	0.404	Battery 1#	/
Left tilt	6/2437	802.11g	0.236	0.221	0.099	-0.04	97%	0.228	10.40	11.50	0.294	Battery 1#	/
Right touch	6/2437	802.11g	0.109	0.118	0.057	-0.02	97%	0.122	10.40	11.50	0.157	Battery 1#	/
Right tilt	6/2437	802.11g	0.128	0.134	0.063	-0.09	97%	0.138	10.40	11.50	0.178	Battery 1#	/
Left touch	6/2437	802.11g	0.314	0.279	0.130	-0.17	97%	0.288	10.40	11.50	0.371	Battery 2#	/
Left touch	6/2437	802.11g	0.311	0.297	0.138	-0.16	97%	0.306	10.40	11.50	0.394	Battery 3#	/
ANT2													
Left touch	6/2437	802.11g	0.104	0.083	0.032	-0.19	97%	0.085	14.79	16.00	0.113	Battery 1#	/
Left tilt	6/2437	802.11g	0.072	0.057	0.024	-0.16	97%	0.059	14.79	16.00	0.078	Battery 1#	/
Right touch	6/2437	802.11g	0.063	0.059	0.025	-0.17	97%	0.061	14.79	16.00	0.081	Battery 1#	/
Right tilt	6/2437	802.11g	0.053	/	/	-0.18	97%	/	14.79	16.00	/	Battery 1#	/
Left touch	6/2437	802.11g	0.092	0.082	0.029	-0.17	97%	0.084	14.79	16.00	0.111	Battery 2#	/
Left touch	6/2437	802.11g	0.093	0.078	0.030	-0.10	97%	0.080	14.79	16.00	0.106	Battery 3#	/
NOTE:Conservative MIMO SAR below is calculated by ANT1 +ANT2													
Left touch	6/2437	802.11g	/	/	/	/	/	/	/	/	0.517	/	/
Left tilt	6/2437	802.11g	/	/	/	/	/	/	/	/	0.372	/	/
Right touch	6/2437	802.11g	/	/	/	/	/	/	/	/	0.238	/	/
Right tilt	6/2437	802.11g	/	/	/	/	/	/	/	/	0.517	/	/

Table 288: Head SAR test results of WiFi 2.4G MIMO

Mode	Tune-up (dBm)	Tune-up (mW)	Highest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11g CDD	17.30	53.70	0.517	/	Yes
802.11n 20M	16.30	42.66	/	0.411	No

Note: Per KDB248227D01, for Head SAR test of WiFi 2.4G MIMO, SAR is measured for 2.4 GHz 802.11g using the initial test position procedure. The highest *reported* SAR for OFDM 802.11g is adjusted by the ratio of OFDM 802.11n to 802.11g specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for 802.11n is not required.

Test Position of Body-Worn with 15mm	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
ANT1													
Front Side	6/2437	802.11g	0.079	0.080	0.046	-0.17	97%	0.082	16.03	16.50	0.091	Battery 1#	/
Back Side	6/2437	802.11g	0.077	/	/	-0.17	97%	/	16.03	16.50	/	Battery 1#	/
Front Side	6/2437	802.11g	0.074	0.074	0.043	-0.17	97%	0.076	16.03	16.50	0.085	Battery 2#	/
Front Side	6/2437	802.11g	0.081	0.080	0.046	-0.19	97%	0.083	16.03	16.50	0.092	Battery 3#	/
ANT2													
Front Side	6/2437	802.11g	0.006	/	/	-0.10	97%	/	15.90	16.00	/	Battery 1#	/
Back Side	6/2437	802.11g	0.087	0.093	0.042	-0.10	97%	0.096	15.90	16.00	0.098	Battery 1#	/
Back Side	6/2437	802.11g	0.070	0.072	0.033	-0.15	97%	0.074	15.90	16.00	0.076	Battery 2#	/
Back Side	6/2437	802.11g	0.085	0.089	0.040	-0.10	97%	0.092	15.90	16.00	0.094	Battery 3#	/
NOTE:Conservative MIMO SAR below is calculated by ANT1 +ANT2													
Front Side	6/2437	802.11g	/	/	/	/	/	/	/	/	0.190	/	/
Back Side	6/2437	802.11g	/	/	/	/	/	/	/	/	0.190	/	/

Table 289: Body-Worn SAR test results of WiFi 2.4G MIMO

Mode	Tune-up (dBm)	Tune-up (mW)	Highest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11g CDD	19.30	85.11	0.190	/	Yes
802.11n 20M	17.80	60.26	/	0.135	No

Note:

- 1) Per KDB248227D01, for Hotspot SAR test of WiFi 2.4G MIMO, SAR is measured for 2.4 GHz 802.11g using the initial test position procedure.The highest reported SAR for DSSS is adjusted by the ratio of OFDM 802.11g to 802.11g specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for 802.11n is not required.
- 2) Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

Test Position of Hotspot with 10mm	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
ANT1													
Front Side	6/2437	802.11g	0.130	0.133	0.077	-0.11	97%	0.137	16.03	16.50	0.153	Battery 1#	/
Back Side	6/2437	802.11g	0.166	0.192	0.089	-0.08	97%	0.198	16.03	16.50	0.221	Battery 1#	/
Right Side	6/2437	802.11g	0.109	/	/	-0.13	97%	/	16.03	16.50	/	Battery 1#	/
Top Side	6/2437	802.11g	0.281	0.283	0.147	-0.09	97%	0.292	16.03	16.50	0.325	Battery 1#	/
Top Side	6/2437	802.11g	0.293	0.290	0.149	-0.18	97%	0.299	16.03	16.50	0.333	Battery 2#	/
Top Side	6/2437	802.11g	0.315	0.317	0.162	-0.13	97%	0.327	16.03	16.50	0.364	Battery 3#	/
ANT2													
Front Side	6/2437	802.11g	0.012	0.011	0.005	0.00	97%	0.012	15.90	16.00	0.012	Battery 1#	/
Back Side	6/2437	802.11g	0.174	0.186	0.748	-0.12	97%	0.192	15.90	16.00	0.196	Battery 1#	/
Right Side	6/2437	802.11g	0.010	/	/	0.08	97%	/	15.90	16.00	/	Battery 1#	/
Top Side	6/2437	802.11g	0.035	/	/	0.02	97%	/	15.90	16.00	/	Battery 1#	/
Back Side	6/2437	802.11g	0.195	0.230	0.094	-0.12	97%	0.237	15.90	16.00	0.243	Battery 2#	/
Back Side	6/2437	802.11g	0.185	0.204	0.084	-0.07	97%	0.210	15.90	16.00	0.215	Battery 3#	/
NOTE:Conservative MIMO SAR below is calculated by ANT1 +ANT2													
Front Side	6/2437	802.11g	/	/	/	/	/	/	/	/	0.165	Battery 1#	/
Back Side	6/2437	802.11g	/	/	/	/	/	/	/	/	0.464	Battery 1#	/
Right Side	6/2437	802.11g	/	/	/	/	/	/	/	/	0.607	Battery 1#	/
Top Side	6/2437	802.11g	/	/	/	/	/	/	/	/	0.607	Battery 1#	/

Table 290: Hotspot SAR test results of WiFi 2.4G MIMO

Mode	Tune-up (dBm)	Tune-up (mW)	Highest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11g CDD	19.30	85.11	0.607	/	Yes
802.11n 20M	17.80	60.26	/	0.430	No

- 1) Per KDB248227D01, for Hotspot SAR test of WiFi 2.4G MIMO, SAR is measured for 2.4 GHz 802.11g using the initial test position procedure. The highest reported SAR for OFDM 802.11g is adjusted by the ratio of OFDM 802.11n to 802.11g specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for 802.11n is not required.
- 2) Per KDB 648474 D04, product specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

7.2.31 SAR measurement Result of WiFi 5G

Test Position of Head	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Test data of U-NII-1&U-NII-2A band													
Left touch	58/5290	802.11ac (80M)	0.178	0.237	0.059	0.12	86%	0.276	10.41	11.50	0.354	Battery 1#	/
Left tilt	58/5290	802.11ac (80M)	0.117	0.141	0.037	0.14	86%	0.164	10.41	11.50	0.211	Battery 1#	/
Right touch	58/5290	802.11ac (80M)	0.086	0.086	0.025	0.12	86%	0.100	10.41	11.50	0.128	Battery 1#	/
Right tilt	58/5290	802.11ac (80M)	0.077	0.078	0.022	-0.05	86%	0.091	10.41	11.50	0.117	Battery 1#	/
Left touch	58/5290	802.11ac (80M)	0.195	0.226	0.059	-0.09	86%	0.263	10.41	11.50	0.338	Battery 2#	/
Left touch	58/5290	802.11ac (80M)	0.203	0.261	0.068	0.17	86%	0.303	10.41	11.50	0.390	Battery 3#	/
Test data of U-NII-2C band													
Left touch	122/5610	802.11ac (80M)	0.206	0.256	0.059	-0.01	86%	0.298	10.98	11.50	0.336	Battery 1#	/
Left tilt	122/5610	802.11ac (80M)	0.133	0.157	0.037	-0.16	86%	0.183	10.98	11.50	0.206	Battery 1#	/
Right touch	122/5610	802.11ac (80M)	0.088	0.065	0.017	0.19	86%	0.076	10.98	11.50	0.085	Battery 1#	/
Right tilt	122/5610	802.11ac (80M)	0.051	0.036	0.011	-0.07	86%	0.042	10.98	11.50	0.047	Battery 1#	/
Left touch	122/5610	802.11ac (80M)	0.187	0.241	0.057	0.10	86%	0.280	10.98	11.50	0.316	Battery 2#	/
Left touch	122/5610	802.11ac (80M)	0.266	0.341	0.085	0.03	86%	0.397	10.98	11.50	0.447	Battery 3#	/
Test data of U-NII-3 band													
Left touch	155/5775	802.11ac (80M)	0.263	0.309	0.067	0.17	86%	0.359	10.66	11.50	0.436	Battery 1#	/
Left tilt	155/5775	802.11ac (80M)	0.207	0.183	0.039	0.18	86%	0.213	10.66	11.50	0.258	Battery 1#	/
Right touch	155/5775	802.11ac (80M)	0.143	0.134	0.003	0.00	86%	0.156	10.66	11.50	0.189	Battery 1#	/
Right tilt	155/5775	802.11ac (80M)	0.097	0.085	0.023	0.00	86%	0.099	10.66	11.50	0.120	Battery 1#	/
Left touch	155/5775	802.11ac (80M)	0.236	0.254	0.056	-0.04	86%	0.295	10.66	11.50	0.358	Battery 2#	/
Left touch	155/5775	802.11ac (80M)	0.331	0.381	0.082	0.06	86%	0.443	10.66	11.50	0.538	Battery 3#	/

Table 291: Head SAR test results of WiFi 5G ANT1

WiFi 5G	Tune-up Limit (dBm)	Tune-up Limit (mW)	Highest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11ac 80M	11.5	14.13	0.538	/	Yes
802.11a	11.5	14.13	/	0.538	No
802.11n 20M	11.5	14.13	/	0.538	No
802.11n 40M	11.5	14.13	/	0.538	No
802.11ac 20M	11.5	14.13	/	0.538	No
802.11ac 40M	11.5	14.13	/	0.538	No

Note:

1) Per KDB248227D01, for Head SAR test of WiFi 5G ANT1, SAR is measured for 5GHz 802.11ac 80M using the initial test position procedure. The highest reported SAR is adjusted by the ratio of 802.11ac to other WiFi 5G mode specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for other WiFi 5G mode is not required.

2) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest *reported* SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition);

Test Position of Body-Worn with 15mm	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Test data of U-NII-1&U-NII-2A band													
Front Side	56/5280	802.11a	0.061	/	/	0.12	94%	/	15.68	16.00	/	Battery 1#	/
Back Side	56/5280	802.11a	0.120	0.121	0.043	0.07	94%	0.129	15.68	16.00	0.139	Battery 1#	/
Back Side	56/5280	802.11a	0.135	0.135	0.048	-0.18	94%	0.144	15.68	16.00	0.155	Battery 2#	/
Back Side	56/5280	802.11a	0.123	0.125	0.044	-0.12	94%	0.133	15.68	16.00	0.143	Battery 3#	/
Test data of U-NII-2C band													
Front Side	132/5660	802.11a	0.043	/	/	0.00	94%	/	15.70	16.00	/	Battery 1#	/
Back Side	132/5660	802.11a	0.169	0.168	0.061	0.17	94%	0.179	15.70	16.00	0.192	Battery 1#	/
Back Side	132/5660	802.11a	0.166	0.170	0.061	0.16	94%	0.181	15.70	16.00	0.194	Battery 2#	/
Back Side	132/5660	802.11a	0.167	0.166	0.060	0.12	94%	0.177	15.70	16.00	0.189	Battery 3#	/
Test data of U-NII-3 band													
Front Side	157/5785	802.11a	0.034	/	/	-0.10	94%	/	15.46	16.00	/	Battery 1#	/
Back Side	157/5785	802.11a	0.181	0.187	0.065	-0.13	94%	0.199	15.46	16.00	0.225	Battery 1#	Yes
Back Side	157/5785	802.11a	0.159	0.159	0.056	-0.10	94%	0.169	15.46	16.00	0.192	Battery 2#	/
Back Side	157/5785	802.11a	0.175	0.172	0.057	-0.07	94%	0.183	15.46	16.00	0.207	Battery 3#	/

Table 292: Body-Worn SAR test results of WiFi 5G ANT1

WiFi 5G	Tune-up Limit (dBm)	Tune-up Limit (mW)	Highest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11a	16.0	39.81	0.225	/	Yes
802.11n 20M	16.0	39.81	/	0.225	No
802.11n 40M	14.0	25.12	/	0.142	No
802.11ac 20M	16.0	39.81	/	0.225	No
802.11ac 40M	14.0	25.12	/	0.142	No
802.11ac 80M	12.5	17.78	/	0.101	No

Note:

1) Per KDB248227D01, for Body-Worn SAR test of WiFi 5G ANT1, SAR is measured for 5GHz 802.11a using the initial test position procedure. The highest reported SAR is adjusted by the ratio of 802.11a to other WiFi 5G mode specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for other WiFi 5G mode is not required.

2) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest *reported* SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition);

Test Position of Hotspot with 10mm	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Test data of U-NII-1 band													
Front Side	44/5220	802.11a	0.094	/	/	-0.12	94%	/	15.67	16.00	/	Battery 1#	/
Back Side	44/5220	802.11a	0.206	0.219	0.070	-0.04	94%	0.233	15.67	16.00	0.251	Battery 1#	/
Right Side	44/5220	802.11a	0.052	/	/	0.18	94%	/	15.67	16.00	/	Battery 1#	/
Top Side	44/5220	802.11a	0.043	/	/	0.17	94%	/	15.67	16.00	/	Battery 1#	/
Back Side	44/5220	802.11a	0.164	0.170	0.056	0.15	94%	0.181	15.67	16.00	0.195	Battery 2#	/
Back Side	44/5220	802.11a	0.170	0.177	0.057	0.19	94%	0.188	15.67	16.00	0.203	Battery 3#	/
Test data of U-NII-3 band													
Front Side	157/5785	802.11a	0.054	/	/	0.09	94%	/	15.46	16.00	/	Battery 1#	/
Back Side	157/5785	802.11a	0.270	0.267	0.084	0.01	94%	0.284	15.46	16.00	0.322	Battery 1#	/
Right Side	157/5785	802.11a	0.084	/	/	-0.07	94%	/	15.46	16.00	/	Battery 1#	/
Top Side	157/5785	802.11a	0.092	/	/	0.00	94%	/	15.46	16.00	/	Battery 1#	/
Back Side	157/5785	802.11a	0.298	0.267	0.083	0.09	94%	0.284	15.46	16.00	0.322	Battery 2#	/
Back Side	157/5785	802.11a	0.318	0.281	0.086	0.10	94%	0.299	15.46	16.00	0.339	Battery 3#	Yes

Table 293: Hotspot SAR test results of WiFi 5G ANT1

WiFi 5G	Tune-up Limit (dBm)	Tune-up Limit (mW)	Highest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11a	16.0	39.81	0.339	/	Yes
802.11n 20M	16.0	39.81	/	0.339	No
802.11n 40M	14.0	25.12	/	0.214	No
802.11ac 20M	16.0	39.81	/	0.339	No
802.11ac 40M	14.0	25.12	/	0.214	No
802.11ac 80M	12.5	17.78	/	0.151	No

Note:

1) Per KDB248227D01, for Hotspot SAR test of WiFi 5G ANT1, SAR is measured for 5GHz 802.11a using the initial test position procedure. The highest reported SAR is adjusted by the ratio of 802.11a to other WiFi 5G mode specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for other WiFi 5G mode is not required.

2) The device do not support hotspot function at U-NII-2A & U-NII-2C band

Product Specific 10-g SAR with 0mm	Test Channel /Freq.(MHz)	Test Mode	Area Scan 10-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 10-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 10-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Test data of U-NII-2A band													
Front Side	56/5280	802.11a	0.290	1.420	0.301	0.12	94%	0.320	15.68	16.00	0.345	Battery 1#	/
Back Side	56/5280	802.11a	0.507	2.290	0.560	-0.18	94%	0.596	15.68	16.00	0.641	Battery 1#	/
Right Side	56/5280	802.11a	0.221	/	/	-0.13	94%	/	15.68	16.00	/	Battery 1#	/
Top Side	56/5280	802.11a	0.408	/	/	0.11	94%	/	15.68	16.00	/	Battery 1#	/
Back Side	56/5280	802.11a	0.514	2.350	0.576	0.13	94%	0.613	15.68	16.00	0.660	Battery 2#	/
Back Side	56/5280	802.11a	0.547	2.260	0.565	-0.04	94%	0.601	15.68	16.00	0.647	Battery 3#	/
Test data of U-NII-2C band													
Front Side	132/5660	802.11a	0.331	1.740	0.368	0.19	94%	0.391	15.70	16.00	0.419	Battery 1#	/
Back Side	132/5660	802.11a	0.784	3.820	0.867	0.12	94%	0.922	15.70	16.00	0.988	Battery 1#	/
Right Side	132/5660	802.11a	0.165	/	/	-0.04	94%	/	15.70	16.00	/	Battery 1#	/
Top Side	132/5660	802.11a	0.156	/	/	0.17	94%	/	15.70	16.00	/	Battery 1#	/
Back Side	132/5660	802.11a	0.893	4.330	0.968	0.12	94%	1.030	15.70	16.00	1.103	Battery 2#	Yes
Front Side	132/5660	802.11a	0.366	1.850	0.390	-0.15	94%	0.415	15.70	16.00	0.445	Battery 2#	/
Back Side	132/5660	802.11a	0.884	4.290	0.958	0.12	94%	1.019	15.70	16.00	1.092	Battery 3#	/

Table 294: Product Specific 10-g SAR test results of WiFi 5G ANT1

WiFi 5G	Tune-up Limit (dBm)	Tune-up Limit (mW)	Highest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11a	16.0	39.81	1.103	/	Yes
802.11n 20M	16.0	39.81	/	1.103	No
802.11n 40M	14.0	25.12	/	0.696	No
802.11ac 20M	16.0	39.81	/	1.103	No
802.11ac 40M	14.0	25.12	/	0.696	No
802.11ac 80M	12.5	17.78	/	0.493	No

Note:

1) Per KDB248227D01, for Product Specific 10-g SAR test of WiFi 5G ANT1, SAR is measured for 5GHz 802.11a using the initial test position procedure. The highest reported SAR is adjusted by the ratio of 802.11a to other WiFi 5G mode specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for other WiFi 5G mode is not required.

Test Position of Head	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Test data of U-NII-1&U-NII-2A band													
Left touch	58/5290	802.11ac (80M)	0.188	0.299	0.050	0.02	86%	0.348	8.12	8.50	0.379	Battery 1#	/
Left tilt	58/5290	802.11ac (80M)	0.173	0.234	0.041	0.03	86%	0.272	8.12	8.50	0.297	Battery 1#	/
Right touch	58/5290	802.11ac (80M)	0.175	0.259	0.046	-0.03	86%	0.301	8.12	8.50	0.329	Battery 1#	/
Right tilt	58/5290	802.11ac (80M)	0.145	0.224	0.041	-0.01	86%	0.260	8.12	8.50	0.284	Battery 1#	/
Left touch	58/5290	802.11ac (80M)	0.174	0.290	0.051	0.08	86%	0.337	8.12	8.50	0.368	Battery 2#	/
Left touch	58/5290	802.11ac (80M)	0.194	0.289	0.049	0.11	86%	0.336	8.12	8.50	0.367	Battery 3#	/
Test data of U-NII-2C band													
Left touch	106/5530	802.11ac (80M)	0.144	0.337	0.053	0.17	86%	0.392	8.48	8.50	0.394	Battery 1#	/
Left tilt	106/5530	802.11ac (80M)	0.145	0.279	0.045	-0.05	86%	0.324	8.48	8.50	0.326	Battery 1#	/
Right touch	106/5530	802.11ac (80M)	0.157	0.233	0.041	-0.03	86%	0.271	8.48	8.50	0.272	Battery 1#	/
Right tilt	106/5530	802.11ac (80M)	0.157	0.257	0.047	-0.07	86%	0.299	8.48	8.50	0.300	Battery 1#	/
Left touch	106/5530	802.11ac (80M)	0.140	0.319	0.049	0.12	86%	0.371	8.48	8.50	0.373	Battery 2#	/
Left touch	106/5530	802.11ac (80M)	0.123	0.202	0.031	-0.12	86%	0.235	8.48	8.50	0.236	Battery 3#	/
Test data of U-NII-3 band													
Left touch	155/5775	802.11ac (80M)	0.090	0.130	0.027	0.13	86%	0.151	8.22	8.50	0.161	Battery 1#	/
Left tilt	155/5775	802.11ac (80M)	0.090	0.108	0.021	0.18	86%	0.126	8.22	8.50	0.134	Battery 1#	/
Right touch	155/5775	802.11ac (80M)	0.109	0.118	0.023	0.18	86%	0.137	8.22	8.50	0.146	Battery 1#	/
Right tilt	155/5775	802.11ac (80M)	0.095	0.117	0.021	-0.15	86%	0.136	8.22	8.50	0.145	Battery 1#	/
Left touch	155/5775	802.11ac (80M)	0.061	0.082	0.018	0.18	86%	0.095	8.22	8.50	0.102	Battery 2#	/
Left touch	155/5775	802.11ac (80M)	0.057	0.084	0.019	0.06	86%	0.098	8.22	8.50	0.105	Battery 3#	/

Table 295: Head SAR test results of WiFi 5G ANT2

WiFi 5G	Tune-up Limit (dBm)	Tune-up Limit (mW)	Highest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11ac 80M	8.5	7.08	0.394	/	Yes
802.11a	8.5	7.08	/	0.394	No
802.11n 20M	8.5	7.08	/	0.394	No
802.11n 40M	8.5	7.08	/	0.394	No
802.11ac 20M	8.5	7.08	/	0.394	No
802.11ac 40M	8.5	7.08	/	0.394	No

Note:

- 1) Per KDB248227D01, for Head SAR test of WiFi 5G ANT2, SAR is measured for 5GHz 802.11ac 80M using the initial test position procedure. The highest reported SAR is adjusted by the ratio of 802.11ac to other WiFi 5G mode specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for other WiFi 5G mode is not required.
- 2) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest *reported* SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition);

Test Position of Body-Worn with 15mm	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Test data of U-NII-1&U-NII-2A band													
Front Side	64/5320	802.11a	0.041	0.022	0.007	0.13	94%	0.023	13.65	14.00	0.025	Battery 1#	/
Back Side	64/5320	802.11a	0.028	0.030	0.009	0.18	94%	0.032	13.65	14.00	0.035	Battery 1#	/
Back Side	64/5320	802.11a	0.030	0.028	0.007	0.10	94%	0.030	13.65	14.00	0.033	Battery 2#	/
Back Side	64/5320	802.11a	0.026	0.025	0.007	0.00	94%	0.027	13.65	14.00	0.029	Battery 3#	/
Test data of U-NII-2C band													
Front Side	112/5560	802.11a	0.088	/	/	0.00	94%	/	13.80	14.00	/	Battery 1#	/
Back Side	112/5560	802.11a	0.097	0.069	0.021	0.00	94%	0.073	13.80	14.00	0.077	Battery 1#	/
Back Side	112/5560	802.11a	0.099	0.070	0.022	0.00	94%	0.074	13.80	14.00	0.078	Battery 2#	/
Back Side	112/5560	802.11a	0.083	0.069	0.022	0.00	94%	0.074	13.80	14.00	0.077	Battery 3#	/
Test data of U-NII-3 band													
Front Side	157/5785	802.11a	0.038	/	/	-0.10	94%	/	13.77	14.00	/	Battery 1#	/
Back Side	157/5785	802.11a	0.060	0.055	0.016	0.00	94%	0.058	13.77	14.00	0.061	Battery 1#	/
Back Side	157/5785	802.11a	0.048	0.055	0.017	0.00	94%	0.058	13.77	14.00	0.061	Battery 2#	/
Back Side	157/5785	802.11a	0.052	0.056	0.017	-0.15	94%	0.059	13.77	14.00	0.062	Battery 3#	/

Table 296: Body-Worn SAR test results of WiFi 5G ANT2

WiFi 5G	Tune-up Limit (dBm)	Tune-up Limit (mW)	Highest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11a	14.0	25.12	0.078	/	Yes
802.11n 20M	14.0	25.12	/	0.078	No
802.11n 40M	12.0	15.85	/	0.049	No
802.11ac 20M	14.0	25.12	/	0.078	No
802.11ac 40M	12.0	15.85	/	0.049	No
802.11ac 80M	10.5	11.22	/	0.035	No

Note:

- 1) Per KDB248227D01, for Body-Worn SAR test of WiFi 5G ANT2, SAR is measured for 5GHz 802.11a using the initial test position procedure. The highest reported SAR is adjusted by the ratio of 802.11a to other WiFi 5G mode specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for other WiFi 5G mode is not required.
- 2) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest *reported* SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition);

Test Position of Hotspot with 10mm	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Test data of U-NII-1 band													
Front Side	48/5240	802.11a	0.039	/	/	0.00	94%	/	13.27	14.00	/	Battery 1#	/
Back Side	48/5240	802.11a	0.042	0.045	0.010	0.00	94%	0.047	13.27	14.00	0.056	Battery 1#	/
Right Side	48/5240	802.11a	<0.01	/	/	0.00	94%	/	13.27	14.00	/	Battery 1#	/
Top Side	48/5240	802.11a	<0.01	/	/	0.00	94%	/	13.27	14.00	/	Battery 1#	/
Back Side	48/5240	802.11a	0.048	0.058	0.014	0.00	94%	0.062	13.27	14.00	0.073	Battery 2#	/
Back Side	48/5240	802.11a	0.049	0.059	0.014	0.00	94%	0.062	13.27	14.00	0.074	Battery 3#	/
Test data of U-NII-3 band													
Front Side	157/5785	802.11a	0.060	/	/	-0.12	94%	/	13.77	14.00	/	Battery 1#	/
Back Side	157/5785	802.11a	0.094	0.099	0.025	-0.15	94%	0.105	13.77	14.00	0.110	Battery 1#	/
Right Side	157/5785	802.11a	0.011	/	/	-0.10	94%	/	13.77	14.00	/	Battery 1#	/
Top Side	157/5785	802.11a	0.023	/	/	-0.10	94%	/	13.77	14.00	/	Battery 1#	/
Back Side	157/5785	802.11a	0.068	0.075	0.019	-0.19	94%	0.080	13.77	14.00	0.084	Battery 2#	/
Back Side	157/5785	802.11a	0.082	0.082	0.021	-0.19	94%	0.087	13.77	14.00	0.092	Battery 3#	/

Table 297: Hotspot SAR test results of WiFi 5G ANT2

WiFi 5G	Tune-up Limit (dBm)	Tune-up Limit (mW)	Highest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11a	14.0	25.12	0.110	/	Yes
802.11n 20M	14.0	25.12	/	0.110	No
802.11n 40M	12.0	15.85	/	0.069	No
802.11ac 20M	14.0	25.12	/	0.110	No
802.11ac 40M	12.0	15.85	/	0.069	No
802.11ac 80M	10.5	11.22	/	0.049	No

Note:

- 1) Per KDB248227D01, for Hotspot SAR test of WiFi 5G ANT2, SAR is measured for 5GHz 802.11a using the initial test position procedure. The highest reported SAR is adjusted by the ratio of 802.11a to other WiFi 5G mode specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for other WiFi 5G mode is not required.
- 2) The device do not support hotspot function at U-NII-2A & U-NII-2C band

Product Specific 10-g SAR with 0mm	Test Channel /Freq.(MHz)	Test Mode	Area Scan 10-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 10-g SAR (W/kg)	Conducted Power (dBm)	Tune- up Power (dBm)	Reported 10-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Test data of U-NII-2A band													
Front Side	64/5320	802.11a	0.146	/	/	0.00	94%	/	13.65	14.00	/	Battery 1#	/
Back Side	64/5320	802.11a	0.220	1.560	0.283	0.00	94%	0.301	13.65	14.00	0.326	Battery 1#	/
Right Side	64/5320	802.11a	0.002	/	/	0.00	94%	/	13.65	14.00	/	Battery 1#	/
Top Side	64/5320	802.11a	0.105	/	/	0.07	94%	/	13.65	14.00	/	Battery 1#	/
Back Side	64/5320	802.11a	0.123	1.430	0.257	0.00	94%	0.273	13.65	14.00	0.296	Battery 2#	/
Back Side	64/5320	802.11a	0.122	1.141	0.254	0.00	94%	0.270	13.65	14.00	0.293	Battery 3#	/
Test data of U-NII-2C band													
Front Side	112/5560	802.11a	0.304	2.130	0.348	0.00	94%	0.370	13.80	14.00	0.388	Battery 1#	/
Back Side	112/5560	802.11a	0.203	/	/	0.00	94%	/	13.80	14.00	/	Battery 1#	/
Right Side	112/5560	802.11a	0.002	/	/	0.00	94%	/	13.80	14.00	/	Battery 1#	/
Top Side	112/5560	802.11a	0.096	/	/	-0.12	94%	/	13.80	14.00	/	Battery 1#	/
Front Side	112/5560	802.11a	0.226	2.120	0.344	0.00	94%	0.366	13.80	14.00	0.383	Battery 2#	/
Front Side	112/5560	802.11a	0.182	2.140	0.324	0.00	94%	0.345	13.80	14.00	0.361	Battery 3#	/

Table 298: Product Specific 10-g SAR test results of WiFi 5G ANT2

WiFi 5G	Tune-up Limit (dBm)	Tune-up Limit (mW)	Highest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11a	14.0	25.12	0.388	/	Yes
802.11n 20M	14.0	25.12	/	0.388	No
802.11n 40M	12.0	15.85	/	0.245	No
802.11ac 20M	14.0	25.12	/	0.388	No
802.11ac 40M	12.0	15.85	/	0.245	No
802.11ac 80M	10.5	11.22	/	0.173	No

Note:

1) Per KDB248227D01, for Product Specific 10-g SAR test of WiFi 5G ANT2, SAR is measured for 5GHz 802.11a using the initial test position procedure. The highest reported SAR is adjusted by the ratio of 802.11a to other WiFi 5G mode specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for other WiFi 5G mode is not required.

Test Position of Head	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Test data of U-NII-1&U-NII-2A band MIMO													
Left touch	58/5290	802.11ac (80M)	0.247	0.345	0.069	-0.08	88%	0.392	12.20	13.30	0.505	Battery 1#	/
Left tilt	58/5290	802.11ac (80M)	0.211	0.307	0.064	0.01	88%	0.349	12.20	13.30	0.449	Battery 1#	/
Right touch	58/5290	802.11ac (80M)	0.226	0.311	0.061	-0.03	88%	0.353	12.20	13.30	0.455	Battery 1#	/
Right tilt	58/5290	802.11ac (80M)	0.230	0.287	0.059	-0.05	88%	0.326	12.20	13.30	0.420	Battery 1#	/
Left touch	58/5290	802.11ac (80M)	0.277	0.251	0.040	-0.05	88%	0.285	12.20	13.30	0.367	Battery 2#	/
Left touch	58/5290	802.11ac (80M)	0.199	0.245	0.051	-0.04	88%	0.278	12.20	13.30	0.359	Battery 3#	/
Test data of U-NII-2C band MIMO													
Left touch	122/5610	802.11ac (80M)	0.387	0.418	0.107	0.06	86%	0.486	12.90	13.30	0.533	Battery 1#	/
Left tilt	122/5610	802.11ac (80M)	0.293	0.335	0.079	0.11	86%	0.390	12.90	13.30	0.427	Battery 1#	/
Right touch	122/5610	802.11ac (80M)	0.195	0.268	0.060	-0.08	86%	0.312	12.90	13.30	0.342	Battery 1#	/
Right tilt	122/5610	802.11ac (80M)	0.212	0.394	0.072	0.18	86%	0.458	12.90	13.30	0.502	Battery 1#	/
Left touch	122/5610	802.11ac (80M)	0.365	0.428	0.111	0.04	86%	0.498	12.90	13.30	0.546	Battery 2#	Yes
Left touch	122/5610	802.11ac (80M)	0.357	0.426	0.109	0.07	86%	0.495	12.90	13.30	0.543	Battery 3#	/
Test data of U-NII-3 band MIMO													
Left touch	155/5775	802.11ac (80M)	0.174	0.183	0.049	-0.13	88%	0.208	12.33	13.30	0.260	Battery 1#	/
Left tilt	155/5775	802.11ac (80M)	0.131	0.126	0.032	-0.07	88%	0.143	12.33	13.30	0.179	Battery 1#	/
Right touch	155/5775	802.11ac (80M)	0.115	0.128	0.029	-0.15	88%	0.145	12.33	13.30	0.182	Battery 1#	/
Right tilt	155/5775	802.11ac (80M)	0.084	0.127	0.025	-0.11	88%	0.144	12.33	13.30	0.180	Battery 1#	/
Left touch	155/5775	802.11ac (80M)	0.184	0.194	0.046	0.16	88%	0.220	12.33	13.30	0.276	Battery 2#	/
Left touch	155/5775	802.11ac (80M)	0.188	0.202	0.047	0.17	88%	0.230	12.33	13.30	0.287	Battery 3#	/

Table 299: Head SAR test results of WiFi 5G MIMO

WiFi 5G	Tune-up Limit (dBm)	Tune-up Limit (mW)	Highest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11ac 80M	13.3	21.38	0.546	/	Yes
802.11a	13.3	21.38	/	0.546	No
802.11n 20M	13.3	21.38	/	0.546	No
802.11n 40M	13.3	21.38	/	0.546	No
802.11ac 20M	13.3	21.38	/	0.546	No
802.11ac 40M	13.3	21.38	/	0.546	No

Note:

1) Per KDB248227D01, for Head SAR test of WiFi 5G MIMO, SAR is measured for 5GHz 802.11ac 80M using the initial test position procedure. The highest reported SAR is adjusted by the ratio of 802.11ac to other WiFi 5G mode specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for other WiFi 5G mode is not required.

2) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest *reported* SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition);

Test Position of Body-Worn with 15mm	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Test data of U-NII-1&U-NII-2A band													
Front Side	52/5260	802.11a	0.047	/	/	0.00	93%	/	17.62	18.10	/	Battery 1#	/
Back Side	52/5260	802.11a	0.105	0.102	0.035	0.13	93%	0.110	17.62	18.10	0.122	Battery 1#	/
Back Side	52/5260	802.11a	0.104	0.096	0.034	0.13	93%	0.104	17.62	18.10	0.116	Battery 2#	/
Back Side	52/5260	802.11a	0.097	0.094	0.033	-0.17	93%	0.101	17.62	18.10	0.113	Battery 3#	/
Test data of U-NII-2C band													
Front Side	136/5680	802.11a	0.053	/	/	0.04	93%	/	17.79	18.10	/	Battery 1#	/
Back Side	136/5680	802.11a	0.139	0.144	0.051	0.14	93%	0.155	17.79	18.10	0.166	Battery 1#	/
Back Side	136/5680	802.11a	0.141	0.142	0.051	0.10	93%	0.153	17.79	18.10	0.164	Battery 2#	/
Back Side	136/5680	802.11a	0.138	0.142	0.051	-0.13	93%	0.153	17.79	18.10	0.164	Battery 3#	/
Test data of U-NII-3 band													
Front Side	157/5785	802.11a	0.042	/	/	0.00	93%	/	17.30	18.10	/	Battery 1#	/
Back Side	157/5785	802.11a	0.143	0.114	0.042	-0.10	93%	0.123	17.30	18.10	0.147	Battery 1#	/
Back Side	157/5785	802.11a	0.139	0.130	0.044	-0.15	93%	0.140	17.30	18.10	0.168	Battery 2#	/
Back Side	157/5785	802.11a	0.008	0.005	0.002	0.19	93%	0.005	17.30	18.10	0.006	Battery 3#	/

Table 300: Body-Worn SAR test results of WiFi 5G MIMO

WiFi 5G	Tune-up Limit (dBm)	Tune-up Limit (mW)	Highest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11a	18.1	64.57	0.168	/	Yes
802.11n 20M	18.1	64.57	/	0.168	No
802.11n 40M	16.1	40.74	/	0.106	No
802.11ac 20M	18.1	64.57	/	0.168	No
802.11ac 40M	16.1	40.74	/	0.106	No
802.11ac 80M	14.6	28.84	/	0.075	No

Note:

- 1) Per KDB248227D01, for Body-Worn SAR test of WiFi 5G MIMO, SAR is measured for 5GHz 802.11a using the initial test position procedure. The highest reported SAR is adjusted by the ratio of 802.11a to other WiFi 5G mode specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for other WiFi 5G mode is not required.
- 2) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest *reported* SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition);

Test Position of Hotspot with 10mm	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Test data of U-NII-1 band													
Front Side	40/5200	802.11a	0.076	/	/	0.10	93%	/	17.33	18.10	/	Battery 1#	/
Back Side	40/5200	802.11a	0.131	0.132	0.043	0.12	93%	0.142	17.33	18.10	0.169	Battery 1#	/
Right Side	40/5200	802.11a	0.036	0.035	0.011	-0.15	93%	0.038	17.33	18.10	0.045	Battery 1#	/
Top Side	40/5200	802.11a	0.030	0.028	0.011	0.16	93%	0.030	17.33	18.10	0.035	Battery 1#	/
Back Side	40/5200	802.11a	0.135	0.135	0.042	0.15	93%	0.145	17.33	18.10	0.173	Battery 2#	/
Back Side	40/5200	802.11a	0.146	0.151	0.048	0.10	93%	0.162	17.33	18.10	0.194	Battery 3#	/
Test data of U-NII-3 band													
Front Side	157/5785	802.11a	0.066	/	/	-0.14	93%	/	17.30	18.10	/	Battery 1#	/
Back Side	157/5785	802.11a	0.205	0.216	0.068	-0.01	93%	0.232	17.30	18.10	0.279	Battery 1#	/
Left Side	157/5785	802.11a	0.012	/	/	0.00	93%	/	17.30	18.10	/	Battery 1#	/
Right Side	157/5785	802.11a	0.052	/	/	-0.11	93%	/	17.30	18.10	/	Battery 1#	/
Top Side	157/5785	802.11a	0.014	/	/	0.00	93%	/	17.30	18.10	/	Battery 1#	/
Back Side	157/5785	802.11a	0.186	0.197	0.063	-0.11	93%	0.212	17.30	18.10	0.255	Battery 2#	/
Back Side	157/5785	802.11a	0.220	0.231	0.073	0.00	93%	0.248	17.30	18.10	0.299	Battery 3#	/

Table 301: Hotspot SAR test results of WiFi 5G MIMO

WiFi 5G	Tune-up Limit (dBm)	Tune-up Limit (mW)	Hightest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11a	18.1	64.57	0.299	/	Yes
802.11n 20M	18.1	64.57	/	0.299	No
802.11n 40M	16.1	40.74	/	0.189	No
802.11ac 20M	18.1	64.57	/	0.299	No
802.11ac 40M	16.1	40.74	/	0.189	No
802.11ac 80M	14.6	28.84	/	0.134	No

Note:

- 1) Per KDB248227D01, for Hotspot SAR test of WiFi 5G MIMO, SAR is measured for 5GHz 802.11a using the initial test position procedure. The highest reported SAR is adjusted by the ratio of 802.11a to other WiFi 5G mode specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for other WiFi 5G mode is not required.
- 2) The device do not support hotspot function at U-NII-2A & U-NII-2C band

Product Specific 10-g SAR with 0mm	Test Channel /Freq.(MHz)	Test Mode	Area Scan 10-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled 10-g SAR (W/kg)	Conducted Power (dBm)	Tune- up Power (dBm)	Reported 10-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Test data of U-NII-2A band													
Front Side	52/5260	802.11a	0.438	1.810	0.460	0.00	93%	0.495	17.62	18.10	0.552	Battery 1#	/
Back Side	52/5260	802.11a	0.347	/	/	0.13	93%	/	17.62	18.10	/	Battery 1#	/
Right Side	52/5260	802.11a	0.155	/	/	-0.12	93%	/	17.62	18.10	/	Battery 1#	/
Top Side	52/5260	802.11a	0.137	/	/	-0.03	93%	/	17.62	18.10	/	Battery 1#	/
Front Side	52/5260	802.11a	0.422	1.810	0.425	0.00	93%	0.457	17.62	18.10	0.510	Battery 2#	/
Front Side	52/5260	802.11a	0.419	1.810	0.425	0.00	93%	0.457	17.62	18.10	0.510	Battery 3#	/
Test data of U-NII-2C band													
Front Side	136/5680	802.11a	0.284	1.350	0.293	0.00	93%	0.315	17.79	18.10	0.338	Battery 1#	/
Back Side	136/5680	802.11a	0.532	2.820	0.647	-0.11	93%	0.696	17.79	18.10	0.747	Battery 1#	/
Right Side	136/5680	802.11a	0.103	/	/	-0.16	93%	/	17.79	18.10	/	Battery 1#	/
Top Side	136/5680	802.11a	0.109	/	/	0.10	93%	/	17.79	18.10	/	Battery 1#	/
Back Side	136/5680	802.11a	0.485	1.880	0.337	0.00	93%	0.362	17.79	18.10	0.389	Battery 2#	/
Back Side	136/5680	802.11a	0.541	2.560	0.594	-0.18	93%	0.639	17.79	18.10	0.686	Battery 3#	/

Table 302: Product Specific 10-g SAR test results of WiFi 5G MIMO

WiFi 5G	Tune-up Limit (dBm)	Tune-up Limit (mW)	Highest Reported SAR(W/kg)	Adjusted SAR (W/kg)	SAR test
802.11a	18.1	64.57	0.747	/	Yes
802.11n 20M	18.1	64.57	/	0.747	No
802.11n 40M	16.1	40.74	/	0.471	No
802.11ac 20M	18.1	64.57	/	0.747	No
802.11ac 40M	16.1	40.74	/	0.471	No
802.11ac 80M	14.6	28.84	/	0.334	No

Note:

1) Per KDB248227D01, for Product Specific 10-g SAR test of WiFi 5G MIMO, SAR is measured for 5GHz 802.11a using the initial test position procedure. The highest reported SAR is adjusted by the ratio of 802.11a to other WiFi 5G mode specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for other WiFi 5G mode is not required.

7.2.32 SAR measurement Result of BT

Test Position of Head	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled SAR1-g (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Left touch	58/2460	DH5	0.136	0.104	0.048	-0.12	77%	0.135	11.57	13.00	0.188	Battery 1#	/
Left tilt	58/2460	DH5	0.116	0.094	0.038	-0.16	77%	0.122	11.57	13.00	0.170	Battery 1#	/
Right touch	58/2460	DH5	0.047	0.042	0.021	-0.12	77%	0.054	11.57	13.00	0.075	Battery 1#	/
Right tilt	58/2460	DH5	0.046	0.047	0.021	-0.16	77%	0.061	11.57	13.00	0.085	Battery 1#	/
Left touch	58/2460	DH5	0.143	0.103	0.045	-0.09	77%	0.134	11.57	13.00	0.186	Battery 2#	/
Left touch	58/2460	DH5	0.141	0.109	0.050	-0.09	77%	0.142	11.57	13.00	0.197	Battery 3#	/
Left touch	11/2413	DH5	0.181	0.130	0.059	-0.16	77%	0.169	11.20	13.00	0.256	Battery 3#	/
Left touch	38/2440	DH5	0.165	0.141	0.063	0.12	77%	0.183	11.42	13.00	0.263	Battery 3#	Yes

Table 303: Head SAR test results of BT

Test Position of Hotspot with 10mm	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled SAR1-g (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Front Side	58/2460	DH5	0.020	0.019	0.007	-0.15	77%	0.024	11.42	13.00	0.035	Battery 1#	/
Back Side	58/2460	DH5	0.019	0.020	0.008	0.00	77%	0.025	11.42	13.00	0.037	Battery 1#	/
Right Side	58/2460	DH5	0.020	0.016	0.006	-0.10	77%	0.021	11.42	13.00	0.030	Battery 1#	/
Top Side	58/2460	DH5	0.062	0.057	0.029	-0.16	77%	0.074	11.42	13.00	0.106	Battery 1#	/
Top Side	58/2460	DH5	0.082	0.078	0.039	-0.15	77%	0.101	11.42	13.00	0.146	Battery 2#	Yes
Top Side	58/2460	DH5	0.071	0.072	0.036	-0.10	77%	0.093	11.42	13.00	0.134	Battery 3#	/

Table 304: Hotspot SAR test results of BT

Product Specific 10-g SAR with 0mm	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR(W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty factor	Scaled SAR10-g (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 10-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Front Side	58/2460	DH5	0.342	0.268	0.110	0.00	77%	0.143	11.57	13.00	0.199	Battery 1#	Yes
Back Side	58/2460	DH5	0.235	0.209	0.079	-0.14	77%	0.102	11.57	13.00	0.142	Battery 1#	/
Right Side	58/2460	DH5	0.072	0.113	0.033	-0.14	77%	0.043	11.57	13.00	0.060	Battery 1#	/
Top Side	58/2460	DH5	0.105	0.099	0.031	0.16	77%	0.041	11.57	13.00	0.057	Battery 1#	/
Front Side	58/2460	DH5	0.25	0.194	0.079	0.00	77%	0.103	11.57	13.00	0.143	Battery 2#	/
Front Side	58/2460	DH5	0.37	0.235	0.104	-0.10	77%	0.135	11.57	13.00	0.188	Battery 3#	/

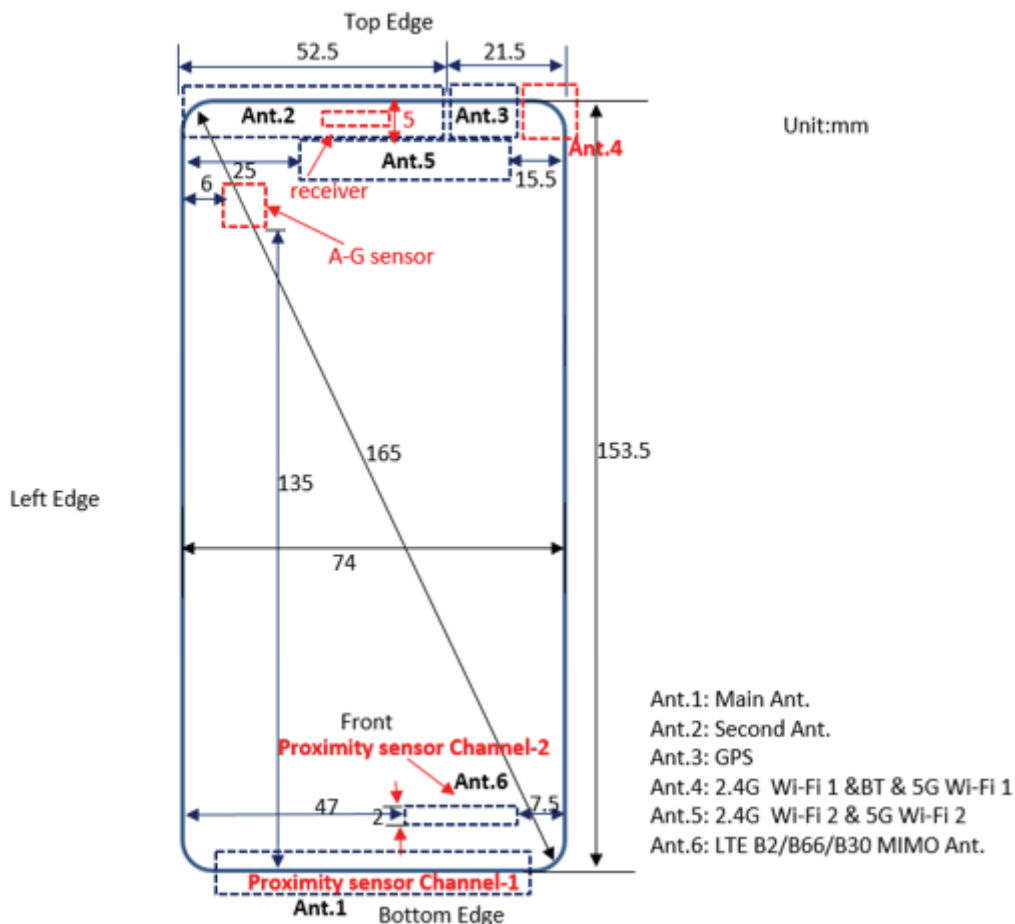
Table 305: Product Specific 10-g SAR test results of BT

Note: For BT, different maximum tune-up output power is specified across the different channels range. So the additional conducted power measurement for the adjacent channel of each power level stage is also performed in this report to ensure compliance. The mode with the highest tune-up output power was selected for SAR test per KDB 447498D01.

7.3 Multiple Transmitter Evaluation

The following tables list information which is relevant for the decision if a simultaneous transmit evaluation is necessary according to FCC KDB447498D01 General RF Exposure Guidance.

The location of the antennas inside the device is shown as below picture:



Note:

- 1) The device supports the dynamic antenna switching function to optimize transmission efficiency for wide range frequency operations. It has two 2G/3G/4G Tx antennas: Main Antenna(Ant 1) and Second Antenna(Ant 2). It can transmit from either Main Antenna or Second Antenna. The Main Antenna and Second Antenna can not transmit simultaneously.
- 2) Ant.6 can only support Rx function. Ant.1, Ant.2, Ant.4 and Ant.6 supports DL LTE 4*4 MIMO (Band LTE B2, LTE B30 and LTE B66).
- 3) The NFC antenna is integrated onto the Back cover. The SAR tests were performed with the Battery cover. Per KDB648474 D04 Phones with built-in NFC functions do not require separate SAR testing and can generally be tested according to the SAR measurement procedures normally required for the phone. Influences of the hardware introduced by the built-in NFC functions are inherently considered through testing of the other transmitters that require SAR.
- 4) Per KDB 648474 D04, because the diagonal distance of this device is > 160mm, it is considered a "Phablet" device.

Mode	Exposure Condition	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
Second ANT	Hotspot/ Product Specific 10-g **	Yes	Yes	Yes	Yes	Yes	No
Main ANT	Hotspot/ Product Specific 10-g **	Yes	Yes	Yes	Yes	No	Yes
WiFi 2.4G ANT1	Hotspot/ Product Specific 10-g **	Yes	Yes	No	Yes	Yes	No
WiFi 2.4G ANT2	Hotspot/ Product Specific 10-g **	Yes	Yes	No	Yes	Yes	No
WiFi 2.4G MIMO	Hotspot/ Product Specific 10-g **	Yes	Yes	No	Yes	Yes	No
WiFi 5G ANT1	Hotspot/ Product Specific 10-g **	Yes	Yes	No	Yes	Yes	No
WiFi 5G ANT2	Hotspot/ Product Specific 10-g **	Yes	Yes	No	Yes	Yes	No
WiFi 5G MIMO	Hotspot/ Product Specific 10-g **	Yes	Yes	No	Yes	Yes	No

Table 306:Sides for Hotspot SAR testing

Note:

- 1) Per KDB 941225 D06 and KDB 648474 D04, Hotspot mode SAR is required to be measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge;
- 2)**Per KDB 648474 D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g scaled SAR > 1.2 W/kg;
- 3) WiFi 5G hotspot is only supported for U-NII-1 and U-NII-3, therefore U-NII-2A and U-NII-2C were not evaluated for hotspot condition.

7.3.1 Stand-alone SAR test exclusion

Per FCC KDB 447498D01v06, the 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for Product Specific 10-g, where:

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Mode	Position	P_{max} (dBm)*	P_{max} (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR Exclusion threshold	SAR test exclusion
BT	Body-Worn	13.00	19.95	15	2.480	2.09	3.00	Yes

Table 307: Standalone SAR test exclusion for BT

Note:

1)* - maximum possible output power declared by manufacturer

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm}) \cdot$

$[\sqrt{f(\text{GHz})}/x]$ W/kg for test separation distances ≤ 50 mm, where $x = 7.5$ for 1-g SAR and $x = 18.75$ for 10-g SAR.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Mode	Position	P_{max} (dBm)*	P_{max} (mW)	Distance (mm)	f (GHz)	X	Estimated SAR (W/kg)*
BT	Body-worn	13.00	19.95	15	2.480	7.50	0.279

Table 308: Estimated SAR calculation for BT

Note:

1)* - maximum possible output power declared by manufacturer

7.3.2 Simultaneous Transmission Possibilities

The Simultaneous Transmission Possibilities of this device are as below:

NO.	Simultaneous TX Combination	Head	Body-worn	Hotspot	Product Specific 10-g
1	GSM Voice(Ant 1) + BT	Yes	Yes	N/A	Yes
2	GSM DATA(Ant 1) + BT	N/A	Yes	Yes	Yes
3	GSM Voice(Ant 2) + BT	Yes	Yes	N/A	Yes
4	GSM DATA (Ant 2)+ BT	N/A	Yes	Yes	Yes
5	GSM Voice(Ant 1) + Wi-Fi 2.4G (Ant 1)/ Wi-Fi 2.4G (Ant 2)/ Wi-Fi 2.4G MIMO	Yes	Yes	N/A	Yes
6	GSM DATA(Ant 1) + Wi-Fi 2.4G (Ant 1)/ Wi-Fi 2.4G (Ant 2)/ Wi-Fi 2.4G MIMO	N/A	Yes	Yes	Yes
7	GSM Voice(Ant 2) + Wi-Fi 2.4G (Ant 1)/ Wi-Fi 2.4G (Ant 2)/ Wi-Fi 2.4G MIMO	Yes	Yes	N/A	Yes
8	GSM DATA(Ant 2) + Wi-Fi 2.4G (Ant 1)/ Wi-Fi 2.4G (Ant 2)/ Wi-Fi 2.4G MIMO	N/A	Yes	Yes	Yes
9	UMTS (Ant 1) + BT	Yes	Yes	Yes	Yes
10	UMTS (Ant 2) + BT	Yes	Yes	Yes	Yes
11	UMTS (Ant 1) + Wi-Fi 2.4G (Ant 1)/ Wi-Fi 2.4G (Ant 2)/ Wi-Fi 2.4G MIMO	Yes	Yes	Yes	Yes
12	UMTS (Ant 2) + Wi-Fi 2.4G (Ant 1)/ Wi-Fi 2.4G (Ant 2)/ Wi-Fi 2.4G MIMO	Yes	Yes	Yes	Yes
13	LTE (Ant 1) + Wi-Fi 2.4G (Ant 1)/ Wi-Fi 2.4G (Ant 2)/ Wi-Fi 2.4G MIMO	Yes	Yes	Yes	Yes
14	LTE(Ant 1) + BT	Yes	Yes	Yes	Yes
15	LTE (Ant 2) + Wi-Fi 2.4G (Ant 1)/ Wi-Fi 2.4G (Ant 2)/ Wi-Fi 2.4G MIMO	Yes	Yes	Yes	Yes
16	LTE (Ant 2) + BT	Yes	Yes	Yes	Yes
17	GSM Voice(Ant 1) + Wi-Fi 5G (Ant 1)/ Wi-Fi 5G (Ant 2)/ Wi-Fi 5G MIMO	Yes	Yes	N/A	Yes
18	GSM DATA(Ant 1) + Wi-Fi 5G (Ant 1)/ Wi-Fi 5G (Ant 2)/ Wi-Fi 5G MIMO	N/A	Yes	Yes	Yes
19	GSM Voice(Ant 2) + Wi-Fi 5G (Ant 1)/ Wi-Fi 5G (Ant 2)/ Wi-Fi 5G MIMO	Yes	Yes	N/A	Yes
20	GSM DATA(Ant 2) + Wi-Fi 5G (Ant 1)/ Wi-Fi 5G (Ant 2)/ Wi-Fi 5G MIMO	N/A	Yes	Yes	Yes
21	UMTS (Ant 1) + Wi-Fi 5G (Ant 1)/ Wi-Fi 5G (Ant 2)/ Wi-Fi 5G MIMO	Yes	Yes	Yes	Yes
22	UMTS (Ant 2) + Wi-Fi 5G (Ant 1)/ Wi-Fi 5G (Ant 2)/ Wi-Fi 5G MIMO	Yes	Yes	Yes	Yes
23	LTE (Ant 1) + Wi-Fi 5G (Ant 1)/ Wi-Fi 5G (Ant 2)/ Wi-Fi 5G MIMO	Yes	Yes	Yes	Yes
24	LTE (Ant 2) + Wi-Fi 5G (Ant 1)/ Wi-Fi 5G (Ant 2)/ Wi-Fi 5G MIMO	Yes	Yes	Yes	Yes
25	GSM Voice(Ant 1) + Wi-Fi 2.4G (Ant 1) + Wi-Fi 5G (Ant 2)	Yes	Yes	N/A	Yes
26	GSM DATA(Ant 1) + Wi-Fi 2.4G (Ant 1) + Wi-Fi 5G (Ant 2)	N/A	Yes	Yes	Yes
27	GSM Voice(Ant 2) + Wi-Fi 2.4G (Ant 1) + Wi-Fi 5G (Ant 2)	Yes	Yes	N/A	Yes
28	GSM DATA(Ant 2) + Wi-Fi 2.4G (Ant 1) + Wi-Fi 5G (Ant 2)	N/A	Yes	Yes	Yes
29	UMTS (Ant 1) + Wi-Fi 2.4G (Ant 1) + Wi-Fi 5G (Ant 2)	Yes	Yes	Yes	Yes
30	UMTS (Ant 2) + Wi-Fi 2.4G (Ant 1) + Wi-Fi 5G (Ant 2)	Yes	Yes	Yes	Yes
31	LTE (Ant 1) + Wi-Fi 2.4G (Ant 1) + Wi-Fi 5G (Ant 2)	Yes	Yes	Yes	Yes
32	LTE (Ant 2) + Wi-Fi 2.4G (Ant 1) + Wi-Fi 5G (Ant 2)	Yes	Yes	Yes	Yes
33	GSM Voice(Ant 1) + BT+ Wi-Fi 5G (Ant1/ Ant2/ MIMO)	Yes	Yes	N/A	Yes
34	GSM DATA(Ant 1) + BT+ Wi-Fi 5G (Ant1/ Ant2/ MIMO)	N/A	Yes	Yes	Yes
35	GSM Voice(Ant 2) + BT+ Wi-Fi 5G (Ant1/ Ant2/ MIMO)	Yes	Yes	N/A	Yes

36	GSM DATA (Ant 2)+ BT+ Wi-Fi 5G (Ant1/ Ant2/ MIMO)	N/A	Yes	Yes	Yes
37	UMTS (Ant 1) + BT+ Wi-Fi 5G (Ant1/ Ant2/ MIMO)	Yes	Yes	Yes	Yes
38	UMTS (Ant 2) + BT+ Wi-Fi 5G (Ant1/ Ant2/ MIMO)	Yes	Yes	Yes	Yes
39	LTE (Ant 1) + BT+ Wi-Fi 5G (Ant1/ Ant2/ MIMO)	Yes	Yes	Yes	Yes
40	LTE (Ant 2) + BT+ Wi-Fi 5G (Ant1/ Ant2/ MIMO)	Yes	Yes	Yes	Yes

Table 309: Simultaneous Transmission Possibilities

Note:

- 1) Neither Wi-Fi 2.4G Ant.1 nor Wi-Fi 2.4G Ant.2 can transmit simultaneously with Bluetooth.
- 2) Wi-Fi 5G Ant.1 can transmit simultaneously with Bluetooth and Ant.2 also can transmit simultaneously with Bluetooth.
- 3) Wi-Fi 2.4G has two TX antennas. Wi-Fi 2.4G 802.11g/n support 2*2 CDD/MIMO function.
- 4) Wi-Fi 5G has two TX antennas. Wi-Fi 5G 802.11 a/n/ac support 2*2 CDD/MIMO function.
- 5) Wi-Fi 2.4G& Wi-Fi 5G can't work at same mode, but they can transmit simultaneously at different modes (Wi-Fi station/P-to-P) by using different Wi-Fi antennas. Only Wi-Fi 2.4G Ant1 station mode and Wi-Fi 5G Ant2 P-to-P mode or Wi-Fi 2.4G Ant1 P-to-P mode and Wi-Fi 5G Ant2 P-to-P mode can transmit simultaneously.
- 6) The device does not support DTM function. Body-worn accessory testing is typically associated with voice operations.
- 7) *VoLTE or pre-installed VOIP applications are considered.
- 8) The Main Antenna (Ant1) and Second Antenna (Ant 2) can't transmit simultaneously.
- 9) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.
- 10) The device supports Vo-WIFI function.
- 11) Wi-Fi 5G ANT1 and Wi-Fi 2.4G ANT2 can not transmit simultaneously.

7.3.3 SAR Summation Scenario

The yellow color SAR test data in the following summed SAR tables represent that the additional SAR test results in simultaneous transmission fixed power reduction scenario are used to ensure simultaneous transmission SAR test exclusion (Also see Section 6.8). For the other SAR test data in the summed SAR tables, the more conservative SAR test results at the maximum output power level without any power reduction are used.

Test Position		Second antenna SARMax														WiFi/BT antenna SARMax								ΣSAR
		GSM 850	GSM 1900	UMTS Band II	UMTS Band IV	UMTS Band V	LTE Band II	LTE Band IV	LTE Band V	LTE Band VII	LTE Band XII	LTE Band XIV	LTE Band XVIII	LTE Band XXX	LTE Band LXVI	CA_2A-12A uplink	WiFi 2.4G (ANT1)	WiFi 2.4G (ANT2)	WiFi 2.4G (MIMO)	WiFi 5G (ANT1)	WiFi 5G (ANT2)	WiFi 5G MIMO	BT	
Head	Left touch	0.462	0.465	0.472	0.676	0.424	0.418	0.510	0.399	0.381	0.387	0.371	0.454	0.429	0.363	0.468	0.344	0.197	0.517	0.538	0.394	0.546	0.263	1.222
	Left tilt	0.355	0.274	0.321	0.469	0.295	0.337	0.440	0.302	0.423	0.285	0.262	0.340	0.478	0.278	0.287	0.292	0.184	0.372	0.258	0.326	0.449	0.170	0.927
	Right touch	0.966	0.753	0.786	0.977	0.759	0.567	0.713	0.578	0.688	0.604	0.637	0.775	0.490	0.866	0.384	0.139	0.153	0.238	0.189	0.329	0.455	0.075	1.432
	Right tilt	0.797	0.476	0.548	0.719	0.621	0.545	0.485	0.508	0.531	0.437	0.625	0.717	0.469	0.695	0.280	0.175	0.119	0.517	0.120	0.300	0.502	0.085	1.314
Body Worn	Front Side	0.331	0.051	0.212	0.160	0.398	0.139	0.182	0.321	0.101	0.139	0.216	0.289	0.075	0.173	0.341	0.157	0.147	0.190	0.225	0.078	0.168	0.279	0.677
	Back Side	0.311	0.150	0.243	0.223	0.377	0.185	0.221	0.442	0.098	0.130	0.216	0.307	0.092	0.210	0.397	0.157	0.134	0.190	0.225	0.078	0.168	0.279	0.721
Hotspot	Front Side	0.440	0.170	0.271	0.144	0.365	0.165	0.158	0.556	0.204	0.091	0.179	0.361	0.111	0.145	0.469	0.286	0.030	0.165	0.339	0.110	0.299	0.035	0.895
	Back Side	0.364	0.235	0.261	0.206	0.323	0.140	0.195	0.584	0.251	0.127	0.176	0.255	0.229	0.177	0.435	0.316	0.616	0.464	0.339	0.110	0.299	0.037	1.200
	Left Side	0.165	0.123	0.182	0.173	0.184	0.117	0.156	0.272	0.187	0.086	0.103	0.153	0.126	0.154	0.088	/	/	/	/	/	0.299	/	0.571
	Right Side	0.037	0.014	0.019	0.017	0.027	0.009	0.016	0.043	0.021	0.024	0.026	0.022	0.014	0.017	0.068	0.559	0.014	0.607	0.339	0.110	0.299	0.030	0.675
	Top Side	0.237	0.155	0.258	0.096	0.212	0.140	0.101	0.303	0.429	0.083	0.118	0.189	0.171	0.074	0.059	0.559	0.103	0.607	0.339	0.110	0.299	0.146	1.036
	Bottom Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.857	/	/	/	/	/	/	/	0.857
Product Specific 10-g SAR	Front Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.103	0.388	0.552	0.199	1.103
	Back Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.103	0.388	0.747	0.142	1.103
	Left Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.000
	Right Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.103	0.388	0.747	0.060	1.103
	Top Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.103	0.388	0.747	0.057	1.103
	Bottom Side	/	/	/	/	/	/	/	/	/	0.646	/	/	/	/	1.666	/	/	/	/	/	/	/	1.618

Table 310: SAR Simultaneous Tx Combination: Second antenna + Wi-Fi 2.4G (Ant 1)/ Wi-Fi 2.4G (Ant 2)/ Wi-Fi 2.4G MIMO/ Wi-Fi 5G (Ant 1)/ Wi-Fi 5G (Ant 2)/ Wi-Fi 5G MIMO/BT

Test Position		Main antenna SARMax														WiFi/BT antenna SARMax								ΣSAR
		GSM 850	GSM 1900	UMTS Band II	UMTS Band IV	UMTS Band V	LTE Band II	LTE Band IV	LTE Band V	LTE Band VII	LTE Band XII	LTE Band XIV	LTE Band XVIII	LTE Band XXX	LTE Band LXVI	CA_2A-12A uplink	WiFi 2.4G (ANT1)	WiFi 2.4G (ANT2)	WiFi 2.4G (MIMO)	WiFi 5G (ANT1)	WiFi 5G (ANT2)	WiFi 5G MIMO	BT	
Head	Left touch	0.192	0.089	0.125	0.225	0.209	0.131	0.227	0.139	0.114	0.114	0.189	0.119	0.088	0.235	0.468	0.344	0.197	0.517	0.538	0.394	0.546	0.263	1.014
	Left tilt	0.123	0.024	0.053	0.056	0.125	0.038	0.041	0.087	0.101	0.085	0.113	0.069	0.056	0.057	0.287	0.292	0.184	0.372	0.258	0.326	0.449	0.170	0.736
	Right touch	0.329	0.066	0.131	0.120	0.304	0.089	0.093	0.258	0.090	0.168	0.241	0.161	0.177	0.134	0.384	0.139	0.153	0.238	0.189	0.329	0.455	0.075	0.839
	Right tilt	0.123	0.043	0.090	0.131	0.124	0.068	0.078	0.086	0.113	0.068	0.114	0.075	0.092	0.140	0.280	0.175	0.119	0.517	0.120	0.300	0.502	0.085	0.797
Body Worn	Front Side	0.278	0.340	0.888	0.801	0.284	0.462	0.546	0.195	0.262	0.262	0.299	0.166	0.441	0.832	0.341	0.157	0.147	0.190	0.225	0.078	0.168	0.279	1.167
	Back Side	0.280	0.363	0.736	0.665	0.279	0.556	0.541	0.279	0.211	0.290	0.304	0.173	0.467	0.725	0.397	0.157	0.134	0.190	0.225	0.078	0.168	0.279	1.015
Hotspot	Front Side	0.478	0.446	0.319	0.602	0.408	0.372	0.450	0.260	0.432	0.344	0.456	0.227	0.514	0.358	0.469	0.286	0.030	0.165	0.339	0.110	0.299	0.035	0.941
	Back Side	0.421	0.417	0.391	0.384	0.474	0.324	0.376	0.375	0.472	0.352	0.408	0.232	0.550	0.320	0.435	0.316	0.616	0.464	0.339	0.110	0.299	0.037	1.166
	Left Side	0.109	0.022	0.026	0.039	0.073	0.027	0.034	0.070	0.193	0.203	0.186	0.075	0.196	0.036	0.088	/	/	/	/	/	0.299	/	0.502
	Right Side	0.330	0.065	0.064	0.066	0.358	0.049	0.056	0.245	0.088	0.428	0.361	0.204	0.071	0.056	0.068	0.559	0.014	0.607	0.339	0.110	0.299	0.030	1.035
	Top Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.059	0.559	0.103	0.607	0.339	0.110	0.299	0.146	0.666
	Bottom Side	0.295	0.792	0.786	0.759	0.339	0.764	0.718	0.212	0.557	0.180	0.233	0.129	0.767	0.645	0.857	/	/	/	/	/	/	/	0.857
Product Specific 10-g SAR	Front Side	/	/	/	2.731	/	/	2.903	/	/	/	/	/	/	2.946	/	/	/	/	0.419	0.388	0.552	0.199	3.498
	Back Side	/	/	2.656	1.767	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.103	0.388	0.747	0.142	3.759
	Left Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.000
	Right Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.103	0.388	0.747	0.060	1.103
	Top Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.103	0.388	0.747	0.057	1.103
	Bottom Side	/	2.338	2.921	3.137	/	2.108	2.965	/	/	/	/	/	1.296	3.571	1.666	/	/	/	/	/	/	/	3.571

Table 311: SAR Simultaneous Tx Combination :Main antenna + Wi-Fi 2.4G (Ant 1)/ Wi-Fi 2.4G (Ant 2)/ Wi-Fi 2.4G MIMO/ Wi-Fi 5G (Ant 1)/ Wi-Fi 5G (Ant 2)/ Wi-Fi 5G MIMO/BT

Test Position		Second antenna SARMax														WiFi/BT antenna SARMax		ΣSAR	
		GSM 850	GSM 1900	UMTS Band II	UMTS Band IV	UMTS Band V	LTE Band II	LTE Band IV	LTE Band V	LTE Band VII	LTE Band XII	LTE Band XIV	LTE Band XVIII	LTE Band XXX	LTE Band LXVI	CA_2A-12A uplink	WiFi 2.4G (ANT1)		WiFi 5G (ANT2)
Head	Left touch	0.462	0.465	0.472	0.676	0.424	0.418	0.510	0.399	0.381	0.387	0.371	0.454	0.429	0.363	0.468	0.344	0.394	1.070
	Left tilt	0.355	0.274	0.321	0.469	0.295	0.337	0.440	0.302	0.423	0.285	0.262	0.340	0.478	0.278	0.287	0.292	0.326	0.804
	Right touch	0.966	0.753	0.786	0.977	0.759	0.567	0.713	0.578	0.688	0.604	0.637	0.775	0.490	0.866	0.384	0.139	0.329	1.306
	Right tilt	0.797	0.476	0.548	0.719	0.621	0.545	0.485	0.508	0.531	0.437	0.625	0.717	0.469	0.695	0.280	0.175	0.300	1.097
Body Worn	Front Side	0.331	0.051	0.212	0.160	0.398	0.139	0.182	0.321	0.101	0.139	0.216	0.289	0.075	0.173	0.341	0.157	0.078	0.555
	Back Side	0.311	0.150	0.243	0.223	0.377	0.185	0.221	0.442	0.098	0.130	0.216	0.307	0.092	0.210	0.397	0.157	0.078	0.599
Hotspot	Front Side	0.440	0.170	0.271	0.144	0.365	0.165	0.158	0.556	0.204	0.091	0.179	0.361	0.111	0.145	0.469	0.286	0.110	0.842
	Back Side	0.364	0.235	0.261	0.206	0.323	0.140	0.195	0.584	0.251	0.127	0.176	0.255	0.229	0.177	0.435	0.316	0.110	0.900
	Left Side	0.165	0.123	0.182	0.173	0.184	0.117	0.156	0.272	0.187	0.086	0.103	0.153	0.126	0.154	0.088	/	/	0.272
	Right Side	0.037	0.014	0.019	0.017	0.027	0.009	0.016	0.043	0.021	0.024	0.026	0.022	0.014	0.017	0.068	0.559	0.110	0.627
	Top Side	0.237	0.155	0.258	0.096	0.212	0.140	0.101	0.303	0.429	0.083	0.118	0.189	0.171	0.074	0.059	0.559	0.110	0.988
	Bottom Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.857	/	/	0.857
Product Specific 10-g SAR	Front Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.388	0.388
	Back Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.388	0.388
	Left Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.000
	Right Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.388	0.388
	Top Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.388	0.388
	Bottom Side	/	/	/	/	/	/	/	/	/	0.646	/	/	/	/	1.666	/	/	1.618

Table 312: SAR Simultaneous Tx Combination: Second antenna + Wi-Fi 2.4G (Ant 1)+Wi-Fi 5G (Ant 2)

Test Position		Main antenna SARMax														WiFi/BT antenna SARMax		ΣSAR	
		GSM 850	GSM 1900	UMTS Band II	UMTS Band IV	UMTS Band V	LTE Band II	LTE Band IV	LTE Band V	LTE Band VII	LTE Band XII	LTE Band XIV	LTE Band XVIII	LTE Band XXX	LTE Band LXVI	CA_2A-12A uplink	WiFi 2.4G (ANT1)		WiFi 5G (ANT2)
Head	Left touch	0.192	0.089	0.125	0.225	0.209	0.131	0.227	0.139	0.114	0.114	0.189	0.119	0.088	0.235	0.468	0.344	0.394	0.862
	Left tilt	0.123	0.024	0.053	0.056	0.125	0.038	0.041	0.087	0.101	0.085	0.113	0.069	0.056	0.057	0.287	0.292	0.326	0.613
	Right touch	0.329	0.066	0.131	0.120	0.304	0.089	0.093	0.258	0.090	0.168	0.241	0.161	0.177	0.134	0.384	0.139	0.329	0.713
	Right tilt	0.123	0.043	0.090	0.131	0.124	0.068	0.078	0.086	0.113	0.068	0.114	0.075	0.092	0.140	0.280	0.175	0.300	0.580
Body Worn	Front Side	0.278	0.340	0.888	0.801	0.284	0.462	0.546	0.195	0.262	0.262	0.299	0.166	0.441	0.832	0.341	0.157	0.078	1.045
	Back Side	0.280	0.363	0.736	0.665	0.279	0.556	0.541	0.279	0.211	0.290	0.304	0.173	0.467	0.725	0.397	0.157	0.078	0.893
Hotspot	Front Side	0.478	0.446	0.319	0.602	0.408	0.372	0.450	0.260	0.432	0.344	0.456	0.227	0.514	0.358	0.469	0.286	0.110	0.888
	Back Side	0.421	0.417	0.391	0.384	0.474	0.324	0.376	0.375	0.472	0.352	0.408	0.232	0.550	0.320	0.435	0.316	0.110	0.866
	Left Side	0.109	0.022	0.026	0.039	0.073	0.027	0.034	0.070	0.193	0.203	0.186	0.075	0.196	0.036	0.088	/	/	0.203
	Right Side	0.330	0.065	0.064	0.066	0.358	0.049	0.056	0.245	0.088	0.428	0.361	0.204	0.071	0.056	0.068	0.559	0.110	0.987
	Top Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.059	0.559	0.110	0.618
	Bottom Side	0.295	0.792	0.786	0.759	0.339	0.764	0.718	0.212	0.557	0.180	0.233	0.129	0.767	0.645	0.857	/	/	0.857
Product Specific 10-g SAR	Front Side	/	/	/	2.731	/	/	2.903	/	/	/	/	/	/	2.946	/	/	0.388	3.334
	Back Side	/	/	2.656	1.767	/	/	/	/	/	/	/	/	/	/	/	/	0.388	3.044
	Left Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.000
	Right Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.388	0.388
	Top Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.388	0.388
	Bottom Side	/	2.338	2.921	3.137	/	2.108	2.965	/	/	/	/	/	1.296	3.571	1.666	/	/	3.571

Table 313: SAR Simultaneous Tx Combination: Main antenna + Wi-Fi 2.4G (Ant 1)+Wi-Fi 5G (Ant 2)

Test Position		Second antenna SARMax														WiFi/BT antenna SARMax				ΣSAR	
		GSM 850	GSM 1900	UMTS Band II	UMTS Band IV	UMTS Band V	LTE Band II	LTE Band IV	LTE Band V	LTE Band VII	LTE Band XII	LTE Band XIV	LTE Band XVIII	LTE Band XXX	LTE Band LXVI	CA_2A-12A uplink	WiFi 5G (ANT1)	WiFi 5G (ANT2)	WiFi 5G MIMO		BT
Head	Left touch	0.462	0.465	0.472	0.676	0.424	0.418	0.510	0.399	0.381	0.387	0.371	0.454	0.429	0.363	0.468	0.538	0.394	0.546	0.263	1.485
	Left tilt	0.355	0.274	0.321	0.469	0.295	0.337	0.440	0.302	0.423	0.285	0.262	0.340	0.478	0.278	0.287	0.258	0.326	0.449	0.170	1.097
	Right touch	0.966	0.753	0.786	0.977	0.759	0.567	0.713	0.578	0.688	0.604	0.637	0.775	0.490	0.866	0.384	0.189	0.329	0.455	0.075	1.507
	Right tilt	0.797	0.476	0.548	0.719	0.621	0.545	0.485	0.508	0.531	0.437	0.625	0.717	0.469	0.695	0.280	0.120	0.300	0.502	0.085	1.384
Body Worn	Front Side	0.331	0.051	0.212	0.160	0.398	0.139	0.182	0.321	0.101	0.139	0.216	0.289	0.075	0.173	0.341	0.225	0.078	0.168	0.279	0.902
	Back Side	0.311	0.150	0.243	0.223	0.377	0.185	0.221	0.442	0.098	0.130	0.216	0.307	0.092	0.210	0.397	0.225	0.078	0.168	0.279	0.946
Hotspot	Front Side	0.440	0.170	0.271	0.144	0.365	0.165	0.158	0.556	0.204	0.091	0.179	0.361	0.111	0.145	0.469	0.339	0.110	0.299	0.035	0.930
	Back Side	0.364	0.235	0.261	0.206	0.323	0.140	0.195	0.584	0.251	0.127	0.176	0.255	0.229	0.177	0.435	0.339	0.110	0.299	0.037	0.960
	Left Side	0.165	0.123	0.182	0.173	0.184	0.117	0.156	0.272	0.187	0.086	0.103	0.153	0.126	0.154	0.088	/	/	0.299	/	0.571
	Right Side	0.037	0.014	0.019	0.017	0.027	0.009	0.016	0.043	0.021	0.024	0.026	0.022	0.014	0.017	0.068	0.339	0.110	0.299	0.030	0.437
	Top Side	0.237	0.155	0.258	0.096	0.212	0.140	0.101	0.303	0.429	0.083	0.118	0.189	0.171	0.074	0.059	0.339	0.110	0.299	0.146	0.914
	Bottom Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.857	/	/	/	/	0.857
Product Specific 10-g SAR	Front Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.103	0.388	0.552	0.199	1.302
	Back Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.103	0.388	0.747	0.142	1.245
	Left Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.000
	Right Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.103	0.388	0.747	0.060	1.163
	Top Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.103	0.388	0.747	0.057	1.160
	Bottom Side	/	/	/	/	/	/	/	/	/	0.646	/	/	/	/	/	1.666	/	/	/	/

Table 314: SAR Simultaneous Tx Combination:Second antenna + BT+ Wi-Fi 5G (Ant 1)/Wi-Fi 5G (Ant 2) /Wi-Fi 5G (MIMO)

Test Position		Main antenna SARMax														WiFi/BT antenna SARMax				ΣSAR	
		GSM 850	GSM 1900	UMTS Band II	UMTS Band IV	UMTS Band V	LTE Band II	LTE Band IV	LTE Band V	LTE Band VII	LTE Band XII	LTE Band XIV	LTE Band XVIII	LTE Band XXX	LTE Band LXVI	CA_2A-12A uplink	WiFi 5G (ANT1)	WiFi 5G (ANT2)	WiFi 5G MIMO		BT
Head	Left touch	0.192	0.089	0.125	0.225	0.209	0.131	0.227	0.139	0.114	0.114	0.189	0.119	0.088	0.235	0.468	0.538	0.394	0.546	0.263	1.277
	Left tilt	0.123	0.024	0.053	0.056	0.125	0.038	0.041	0.087	0.101	0.085	0.113	0.069	0.056	0.057	0.287	0.258	0.326	0.449	0.170	0.906
	Right touch	0.329	0.066	0.131	0.120	0.304	0.089	0.093	0.258	0.090	0.168	0.241	0.161	0.177	0.134	0.384	0.189	0.329	0.455	0.075	0.914
	Right tilt	0.123	0.043	0.090	0.131	0.124	0.068	0.078	0.086	0.113	0.068	0.114	0.075	0.092	0.140	0.280	0.120	0.300	0.502	0.085	0.867
Body Worn	Front Side	0.278	0.340	0.888	0.801	0.284	0.462	0.546	0.195	0.262	0.262	0.299	0.166	0.441	0.832	0.341	0.225	0.078	0.168	0.279	1.392
	Back Side	0.280	0.363	0.736	0.665	0.279	0.556	0.541	0.279	0.211	0.290	0.304	0.173	0.467	0.725	0.397	0.225	0.078	0.168	0.279	1.240
Hotspot	Front Side	0.478	0.446	0.319	0.602	0.408	0.372	0.450	0.260	0.432	0.344	0.456	0.227	0.514	0.358	0.469	0.339	0.110	0.299	0.035	0.976
	Back Side	0.421	0.417	0.391	0.384	0.474	0.324	0.376	0.375	0.472	0.352	0.408	0.232	0.550	0.320	0.435	0.339	0.110	0.299	0.037	0.926
	Left Side	0.109	0.022	0.026	0.039	0.073	0.027	0.034	0.070	0.193	0.203	0.186	0.075	0.196	0.036	0.088	/	/	0.299	/	0.502
	Right Side	0.330	0.065	0.064	0.066	0.358	0.049	0.056	0.245	0.088	0.428	0.361	0.204	0.071	0.056	0.068	0.339	0.110	0.299	0.030	0.797
	Top Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.059	0.339	0.110	0.299	0.146	0.544
	Bottom Side	0.295	0.792	0.786	0.759	0.339	0.764	0.718	0.212	0.557	0.180	0.233	0.129	0.767	0.645	0.857	/	/	/	/	0.857
Product Specific 10-g SAR	Front Side	/	/	/	2.731	/	/	2.903	/	/	/	/	/	/	2.946	/	0.419	0.388	0.552	0.199	3.697
	Back Side	/	/	2.656	1.767	/	/	/	/	/	/	/	/	/	/	/	1.103	0.388	0.747	0.142	3.901
	Left Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.000
	Right Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.103	0.388	0.747	0.060	1.163
	Top Side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.103	0.388	0.747	0.057	1.160
	Bottom Side	/	2.338	2.921	3.137	/	2.108	2.965	/	/	/	/	/	1.296	3.571	1.666	/	/	/	/	3.571

Table 315: SAR Simultaneous Tx Combination:Main antenna + BT+ Wi-Fi 5G (Ant 1)/Wi-Fi 5G (Ant 2) /Wi-Fi 5G (MIMO)

7.3.4 Simultaneous Transmission Conclusion

The above numeral summed SAR results and SPLSR analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore simultaneous transmission SAR with Volume Scans is not required per KDB 447498 D01v06

Appendix A. System Check Plots

(Pls See Appendix No.: SYBH(Z-SAR)006112017-2A, total: 63 pages)

Appendix B. SAR Measurement Plots

(Pls See Appendix No.: SYBH(Z-SAR)006112017-2B, total: 105 pages)

Appendix C. Calibration Certificate

(Pls See Appendix No.: SYBH(Z-SAR)006112017-2C, total: 224 pages)

Appendix D. Photo documentation

(Pls See Appendix No.: SYBH(Z-SAR)006112017-2D, total: 8 pages)

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