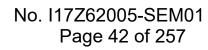


### Table 11-8 LTE700-FDD12 #1

		LTE	700-FDD12 #				
						er (dBm) & M	
5			_		SK		QAM
BandWidth	RB No./Start	Channel	Tune-up	Measured Power	MPR	Measured Power	MPR
	<del>                                     </del>	23173	24	23.37	0	22.10	1
	1H	23095	24	23.23	0	22.17	1
	"	23017	24	23.34	0	22.36	1
		23173	24	23.41	0	22.27	1
	1M	23095	24	23.34	0	22.30	1
	""	23017	24	23.36	0	22.48	1
		23173	24	23.18	0	22.10	1
	1L	23095	24	23.16	0	22.16	1
		23017	24	23.25	0	22.36	1
		23173	24	23.20	0	22.36	1
1.4MHz	3H	23095	24	23.19	0	22.19	1
		23017	24	23.16	0	22.26	1
		23173	24	23.38	0	22.41	1
	3M	23095	24	23.24	0	22.20	1
		23017	24	23.14	0	22.22	1
		23173	24	23.33	0	22.36	1
	3L	23095	24	23.17	0	22.18	1
		23017	24	23.15	0	22.24	1
		23173	24	22.36	1	21.37	2
	6	23095	24	22.15	1	21.18	2
		23017	24	22.14	1	21.26	2
		23165	24	23.37	0	22.13	1
	1H	23095	24	23.29	0	21.99	1
		23025	24	23.48	0	22.51	1
		23165	24	23.46	0	22.32	1
	1M	23095	24	23.39	0	22.17	1
		23025	24	23.28	0	22.58	1
	l	23165	24	23.36	0	22.19	1
	1L	23095	24	23.33	0	22.07	1
		23025	24	23.36	0	22.38	1
0.411	8H	23165	24	22.28	1	21.26	2
3MHz		23095	24	22.23	1	21.27	2
		23025	24	22.28	1	21.26	2
	0.4	23165	24	22.32	1	21.31	2
	8M	23095	24	22.29	1	21.34	2
		23025	24 24	22.32 22.28	1	21.27 21.30	2
	8L	23165 23095	24	22.22	1	21.29	2
	, or	23025	24	22.25	1	21.23	2
		23165	24	22.26	1	21.18	2
	15	23095	24	22.22	1	21.18	2
	"	23025	24	22.22	1	21.18	2
					<u> </u>		
	<del>                                     </del>	23155	24	23.18	0	22.19	1
	1H	23095	24	23.32	0	22.19	1
	"	23035	24	23.15	0	22.19	1
		23155	24	23.38	0	22.38	1
	1M	23095	24	23.49	0	22.46	1
	""	23035	24	23.44	0	22.77	1
		23155	24	23.13	0	22.09	1
	1L	23095	24	23.29	0	22.24	1
	1	23035	24	23.17	0	22.48	1
		23155	24	22.16	1	21.21	2
5MHz	12H	23095	24	22.23	1	21.21	2
		23035	24	22.21	1	21.36	2
		23155	24	22.30	1	21.28	2
	12M	23095	24	22.34	1	21.30	2
	30000000	23035	24	22.25	1	21.33	2
		23155	24	22.25	1	21.29	2
	12L	23095	24	22.27	1	21.27	2
		23035	24	22.16	1	21.26	2
		23155	24	22.24	1	21.14	2
	25	23095	24	22.30	1	21.17	2
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		23130	24	23.27	0	22.59	1
	1H	23095	24	23.20	0	22.09	1
		23060	24	23.19	0	22.04	1
		23130	24	23.35	0	22.62	1
	1M	23095	24	23.16	0	22.20	1
		23060	24	23.30	0	22.15	1
		23130	24	23.21	0	22.60	1
	1L	23095	24	23.14	0	22.16	1
		23060	24	23.29	0	21.98	1
		23130	24	22.22	1	21.35	2
10MHz	25H	23095	24	22.17	1	21.20	2
		23060	24	22.27	1	21.27	2
		23130	24	22.28	1	21.36	2
	25M	23095	24	22.30	1	21.30	2
		23060	24	22.27	1	21.24	2
		23130	24	22.36	1	21.44	2
	25L	23095	24	22.21	1	21.27	2
		23060	24	22.19	1	21.19	2
		23130	24	22.29	1	21.32	2
	50	23095	24	22.20	1	21.21	2
		23060	24	22.29	1	21.21	2



### Table 11-9 LTE750-FDD13 #1

		LTE	750-FDD13 #				
						er (dBm) & MI	
				QP	SK	16Q	AM
BandWidth	RB No./Start	Channel	Tune-up	Measured Power	MPR	Measured Power	MPR
		23255	24	22.88	0	22.03	1
	1H	23230	24	22.93	0	22.09	1
		23205	24	23.03	0	22.49	1
		23255	24	23.17	0	22.29	1
	1M	23230	24	23.24	0	22.40	1
		23205	24	23.26	0	22.78	1
		23255	24	22.97	0	22.13	1
	1L	23230	24	23.02	0	22.17	1
		23205	24	22.98	0	22.48	1
		23255	24	22.00	1	21.16	2
5MHz	12H	23230	24	22.06	1	21.27	2
		23205	24	22.10	1	21.31	2
		23255	24	22.04	1	21.21	2
	12M	23230	24	22.13	1	21.28	2
		23205	24	22.10	1	21.40	2
		23255	24	21.95	1	21.15	2
	12L	23230	24	22.03	1	21.24	2
		23205	24	22.05	1	21.31	2
		23255	24	22.04	1	21.09	2
	25	23230	24	22.13	1	21.21	2
		23205	24	22.12	1	21.26	2
		Н	24	/	1	/	/
	1H	М	24	1	1	/	1
		23230	24	23.05	0	22.26	1
		Н	24	1	1	/	/
	1M	М	24	/	1	/	1
		23230	24	23.23	0	22.48	1
		Н	24	1	1	1	1
	1L	М	24	1	1	1	1
		23230	24	23.10	0	22.40	1
		Н	24	1	1	1	1
10MHz	25H	М	24	1	1	1	1
		23230	24	21.59	1	21.25	2
		Н	24	1	1	1	1
	25M	М	24	1	1	1	1
		23230	24	21.61	1	21.25	2
		Н	24	1	1	1	/
	25L	М	24	1	1	1	1
		23230	24	21.58	1	21.20	2
		Н	24	1	1	1	1
	50	М	24	1	1	1	1
		23230	24	21.62	1	21.21	2



### Table 11-10 LTE1700-FDD66 #1 AP OFF

		LTE	1700-FDD66 :	#1			
SN				Me	asured Powe	er (dBm) & M	PR
					SK	16Q	AM
BandWidth	RB No./Start	Channel	Tune-up	Measured Power	MPR	Measured Power	MPR
		132665	23.5	22.94	0	22.13	1
	1H	132322	23.5	22.99	0	22.06	1
		131979	23.5	23.15	0	22.21	1
		132665	23.5	23.10	0	22.29	1
	1M	132322	23.5	23.13	0	22.20	11
		131979	23.5 23.5	23.32 22.88	0	22.42 22.12	1
	1L	132665 132322	23.5	23.04	0	22.12	1
		131979	23.5	23.24	0	22.25	1
		132665	23.5	22.99	0	22.18	1
1.4MHz	3H	132322	23.5	23.06	0	22.22	1
		131979	23.5	23.24	0	22.28	1
		132665	23.5	23.07	0	22.23	1
	3M	132322	23.5	23.09	0	22.36	11
		131979	23.5	23.28	0	22.32	1
	3L	132665 132322	23.5 23.5	23.03 23.09	0	22.14 22.28	1 1
	JL.	131979	23.5	23.25	0	22.24	1
		132665	23.5	22.03	1	21.19	2
	6	132322	23.5	22.10	1	21.30	2
		131979	23.5	22.23	1	21.28	2
		132657	23.5	23.06	0	21.89	1
	1H	132322	23.5	23.05	0	22.12	1
		131987	23.5	23.23	0	22.23	1
	414	132657	23.5	23.24	0	22.05	1
	1M	132322	23.5	23.20	0	22.31	1 1
		131987 132657	23.5 23.5	23.39	0	22.42 21.98	1
	1L	132322	23.5	23.13	0	22.15	1
	"-	131987	23.5	23.32	0	22.26	1
	8H	132657	23.5	22.01	1	21.10	2
3MHz		132322	23.5	22.05	1	21.11	2
		131987	23.5	22.18	1	21.26	2
		132657	23.5	22.06	1	21.16	2
	8M	132322	23.5	22.17	1	21.17	2
		131987	23.5	22.23	1	21.33	2
	8L	132657 132322	23.5 23.5	21.97 22.12	1	21.14 21.15	2
	OL.	131987	23.5	22.24	1	21.31	2
		132657	23.5	22.02	1	21.00	2
	15	132322	23.5	22.11	1	21.12	2
		131987	23.5	22.22	1	21.20	2
		132647	23.5	22.93	0	22.10	1
	1H	132322	23.5	23.00	0	22.17	1
	<u> </u>	131997	23.5	23.11	0	22.29	1
	1M	132647 132322	23.5 23.5	23.19	0	22.38 22.39	1
	1101	131997	23.5	23.42	0	22.39	1
		132647	23.5	22.95	0	22.18	1
	1L	132322	23.5	23.02	0	22.22	1
		131997	23.5	23.16	0	22.29	1
		132647	23.5	22.08	1	21.15	2
5MHz	12H	132322	23.5	22.11	1	21.16	2
	<u> </u>	131997	23.5	22.24	1	21.27	2
	1014	132647	23.5	22.08	1	21.21	2
	12M	132322 131997	23.5 23.5	22.18 22.31	1	21.27 21.38	2
		132647	23.5	22.08	1	21.36	2
	12L	132322	23.5	22.14	1	21.14	2
		131997	23.5	22.31	1	21.33	2
		132647	23.5	22.11	1	21.09	2
	25	132322	23.5	22.16	1	21.15	2
		131997	23.5	22.27	1	21.21	2



		132622	23.5	23.02	0	21.87	1
	1H	132322	23.5	23.01	0	22.01	1
		132022	23.5	23.14	0	22.23	1
		132622	23.5	23.21	0	22.01	1
	1M	132322	23.5	23.20	0	22.17	1
		132022	23.5	23.30	0	22.38	1
		132622	23.5	23.10	0	21.97	1
	1L	132322	23.5	23.13	0	22.04	1
	IL.						
		132022	23.5	23.24	0	22.22	1
		132622	23.5	22.12	1	21.10	2
10MHz	25H	132322	23.5	22.17	1	21.18	2
		132022	23.5	22.23	1	21.36	2
		132622	23.5	22.13	1	21.10	2
	25M	132322	23.5	22.20	1	21.22	2
		132022	23.5	22.30	1	21.34	2
		132622	23.5	22.16	1	21.14	2
	25L	132322	23.5	22.25	1	21.22	2
	ZJL						
		132022	23.5	22.33	1	21.40	2
l		132622	23.5	22.16	1	21.13	2
l	50	132322	23.5	22.24	1	21.17	2
l		132022	23.5	22.30	1	21.30	2
	ł	102022	20.0	22.00		£1.00	
	<b> </b>						
		132597	23.5	22.89	0	21.92	1
	1H	132322	23.5	22.99	0	21.92	1
1		132047	23.5	23.07	0	21.95	1
1		132597	23.5		0		1
				23.08		22.01	
	1M	132322	23.5	23.17	0	22.02	1
		132047	23.5	23.26	0	22.01	1
		132597	23.5	23.08	0	21.99	1
	1L	132322	23.5	23.12	0	22.04	1
	IL.						
		132047	23.5	23.24	0	22.05	1
		132597	23.5	22.09	1	21.10	2
15MHz	36H	132322	23.5	22.14	1	21.11	2
		132047	23.5	22.30	1	21.28	2
		132597	23.5	22.10	1	21.17	2
	36M	132322	23.5	22.20	1	21.17	2
		132047	23.5	22.36	1	21.30	2
		132597	23.5	22.20	1	21.21	2
	261				1		
	36L	132322	23.5	22.28		21.23	2
		132047	23.5	22.42	1	21.33	2
		132597	23.5	22.15	1	21.17	2
	75	132322	23.5	22.27	1	21.17	2
	1	132047	23.5	22.43	1	21.35	2
	}	102041	20.0	22. <del>4</del> 3	- 1	۷۱.۵	
1		132572	23.5	22.88	0	22.19	1
	1H	132322	23.5	22.91	0	22.25	1
		132072	23.5	23.08	0	22.34	1
			3.0				1
ī		132572	22 5	23.40	0		
	4	132572	23.5	23.19	0	22.41	
	1M	132572 132322	23.5	23.28	0	22.46	1
	1M						1
	1M	132322 132072	23.5 23.5	23.28	0	<b>22.46</b> 22.41	
		132322 132072 132572	23.5 23.5 23.5	23.28 23.41 23.01	0 0 0	22.46 22.41 22.30	1
	1M 1L	132322 132072 132572 132322	23.5 23.5 23.5 23.5	23.28 23.41 23.01 23.05	0 0 0	22.46 22.41 22.30 22.38	1 1 1
		132322 132072 132572 132322 132072	23.5 23.5 23.5 23.5 23.5 23.5	23.28 23.41 23.01 23.05 23.12	0 0 0 0	22.46 22.41 22.30 22.38 22.47	1 1 1
	1L	132322 132072 132572 132322 132072 132572	23.5 23.5 23.5 23.5	23.28 23.41 23.01 23.05 23.12 22.02	0 0 0 0 0	22.46 22.41 22.30 22.38	1 1 1 1 2
20MHz		132322 132072 132572 132322 132072	23.5 23.5 23.5 23.5 23.5 23.5	23.28 23.41 23.01 23.05 23.12	0 0 0 0	22.46 22.41 22.30 22.38 22.47	1 1 1
20MHz	1L	132322 132072 132572 132322 132072 132572 132322	23.5 23.5 23.5 23.5 23.5 23.5	23.28 23.41 23.01 23.05 23.12 22.02	0 0 0 0 0	22.46 22.41 22.30 22.38 22.47 20.96 21.08	1 1 1 1 2
20MHz	1L	132322 132072 132572 132322 132072 132572 132322 132072	23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	23.28 23.41 23.01 23.05 23.12 22.02 22.11 22.39	0 0 0 0 0 1 1	22.46 22.41 22.30 22.38 22.47 20.96 21.08 21.36	1 1 1 1 2 2 2
20MHz	1L 50H	132322 132072 132572 132322 132072 132572 132322 132072 132572	23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	23.28 23.41 23.01 23.05 23.12 22.02 22.11 22.39 22.06	0 0 0 0 0 1 1 1	22.46 22.41 22.30 22.38 22.47 20.96 21.08 21.36 21.04	1 1 1 1 2 2 2 2
20MHz	1L	132322 132072 132572 132572 132322 132072 132572 132322 132072 132572 132572	23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	23.28 23.41 23.01 23.05 23.12 22.02 22.11 22.39 22.06 22.13	0 0 0 0 0 1 1 1 1	22.46 22.41 22.30 22.38 22.47 20.96 21.08 21.36 21.04 21.12	1 1 1 1 2 2 2 2 2 2
20MHz	1L 50H	132322 132072 132572 132322 132072 132572 132322 132072 132572	23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	23.28 23.41 23.01 23.05 23.12 22.02 22.11 22.39 22.06	0 0 0 0 0 1 1 1	22.46 22.41 22.30 22.38 22.47 20.96 21.08 21.36 21.04	1 1 1 1 2 2 2 2
20MHz	1L 50H	132322 132072 132572 132572 132322 132072 132572 132322 132072 132572 132572	23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	23.28 23.41 23.01 23.05 23.12 22.02 22.11 22.39 22.06 22.13	0 0 0 0 0 1 1 1 1	22.46 22.41 22.30 22.38 22.47 20.96 21.08 21.36 21.04 21.12	1 1 1 1 2 2 2 2 2
20MHz	1L 50H 50M	132322 132072 132572 132322 132072 132572 132572 132072 132572 132572 132322 132072 132572	23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	23.28 23.41 23.01 23.05 23.12 22.02 22.11 22.39 22.06 22.13 22.37 22.22	0 0 0 0 0 1 1 1 1 1 1	22.46 22.41 22.30 22.38 22.47 20.96 21.08 21.36 21.04 21.12 21.35 21.14	1 1 1 1 2 2 2 2 2 2 2 2 2
20MHz	1L 50H	132322 132072 132572 132572 132072 132072 132572 132322 132072 132572 132072 132572 132572 132572	23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	23.28 23.41 23.01 23.05 23.12 22.02 22.11 22.39 22.06 22.13 22.37 22.22 22.19	0 0 0 0 0 1 1 1 1 1 1 1	22.46 22.41 22.30 22.38 22.47 20.96 21.08 21.36 21.04 21.12 21.35 21.14 21.16	1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2
20MHz	1L 50H 50M	132322 132072 132572 132322 132072 132572 132572 132322 132072 132572 132072 132572 132572 132572	23.5 23.5	23.28 23.41 23.01 23.05 23.12 22.02 22.11 22.39 22.06 22.13 22.37 22.22 22.19	0 0 0 0 0 1 1 1 1 1 1 1 1	22.46 22.41 22.30 22.38 22.47 20.96 21.08 21.36 21.04 21.12 21.35 21.14 21.16 21.38	1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
20MHz	1L 50H 50M	132322 132072 132572 132572 132072 132072 132572 132322 132072 132572 132072 132572 132572 132572	23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	23.28 23.41 23.01 23.05 23.12 22.02 22.11 22.39 22.06 22.13 22.37 22.22 22.19	0 0 0 0 0 1 1 1 1 1 1 1	22.46 22.41 22.30 22.38 22.47 20.96 21.08 21.36 21.04 21.12 21.35 21.14 21.16	1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
20MHz	1L 50H 50M	132322 132072 132572 132322 132072 132572 132572 132322 132072 132572 132072 132572 132572 132572	23.5 23.5	23.28 23.41 23.01 23.05 23.12 22.02 22.11 22.39 22.06 22.13 22.37 22.22 22.19	0 0 0 0 0 1 1 1 1 1 1 1 1	22.46 22.41 22.30 22.38 22.47 20.96 21.08 21.36 21.04 21.12 21.35 21.14 21.16 21.38	1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
20MHz	1L 50H 50M	132322 132072 132572 132322 132072 132572 132572 132072 132572 132322 132072 132572 132572 132572 132572	23.5 23.5	23.28 23.41 23.01 23.05 23.12 22.02 22.11 22.39 22.06 22.13 22.37 22.22 22.19 22.39 22.04	0 0 0 0 0 1 1 1 1 1 1 1 1 1 1	22.46 22.41 22.30 22.38 22.47 20.96 21.08 21.36 21.04 21.12 21.35 21.14 21.16 21.38 21.02	1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2



### Table 11-11 LTE1700-FDD66 #2 AP ON

		LTE <sup>2</sup>	1700-FDD66				
SN						er (dBm) & MF	
			l _	QP	SK	16Q	AM
BandWidth	RB No./Start	Channel	Tune-up	Measured Power	MPR	Measured Power	MPR
	_	132665	20	19.25	0	19.37	0
	1H	132322	20	19.46	0	19.32	0
		131979	20	19.47	0	19.77	0
		132665	20	19.44	0	19.60	0
	1M	132322	20	19.68	0	19.59	0
		131979	20	19.59	0	19.94	0
		132665	20	19.23	0	19.40	0
	1L	132322	20	19.48	0	19.38	0
		131979	20	19.47	0	19.75	0
		132665	20	19.33	0	19.41	0
1.4MHz	3H	132322	20	19.44	0	19.40	0
		131979	20	19.47	0	19.73	0
		132665	20	19.45	0	19.48	0
	3M	132322	20	19.53	0	19.44	0
		131979	20	19.53	0	19.69	0
		132665	20	19.33	0	19.43	0
	3L	132322	20	19.48	0	19.39	0
		131979	20	19.46	0	19.68	0
		132665	20	19.39	0	19.52	0
	6	132322	20	19.54	0	19.48	0
		131979	20	19.56	0	19.41	0
		132657	20	19.39	0	19.39	0
	1H	132322	20	19.42	0	19.47	0
		131987	20	19.44	0	19.52	0
		132657	20	19.52	0	19.63	0
	1M	132322	20	19.48	0	19.66	0
		131987	20	19.61	0	19.66	0
		132657	20	19.37	0	19.50	0
	1L	132322	20	19.35	0	19.53	0
		131987	20	19.51	0	19.54	0
		132657	20	19.39	0	19.44	0
3MHz	8H	132322	20	19.35	0	19.50	0
		131987	20	19.48	0	19.52	0
		132657	20	19.46	0	19.51	0
	8M	132322	20	19.41	0	19.51	0
		131987	20	19.55	0	19.59	0
		132657	20	19.40	0	19.46	0
	8L	132322	20	19.37	0	19.52	0
		131987	20	19.49	0	19.53	0
		132657	20	19.39	0	19.35	0
	15	132322	20	19.37	0	19.41	0
		131987	20	19.50	0	19.47	0
		132647	20	19.41	0	19.48	0
	1H	132322	20	19.46	0	19.48	0
		131997	20	19.44	0	19.29	0
	ı l	132647	20	19.68	0	19.78	0
	1M	132322	20	19.72	0	19.74	0
		131997	20	19.71	0	19.43	0
		132647	20	19.43	0	19.48	0
	1L	132322	20	19.44	0	19.51	0
		131997	20	19.51	0	19.52	0
es		132647	20	19.47	0	19.50	0
5MHz	12H	132322	20	19.44	0	19.49	0
		131997	20	19.45	0	19.47	0
		132647	20	19.50	0	19.58	0
	12M	132322	20	19.50	0	19.55	0
		131997	20	19.50	0	19.59	0
		132647	20	19.43	0	19.49	0
	12L	132322	20	19.47	0	19.52	0
		131997	20	19.51	0	19.55	0
		132647	20	19.47	0	19.40	0
	25	132322	20	19.47	0	19.39	0
	i [	131997	20	19.50	0	19.43	0



		1			ı		
		132622	20	19.35	0	19.33	0
	1H	132322	20	19.33		19.33	0
	1 "				0		
		132022	20	19.46	0	19.49	0
	1M	132622	20	19.43 19.43	0	19.52 19.49	0
	IIVI	132322	20		0		0
		132022		19.57		19.60	
	4.	132622	20	19.40	0	19.42	0
	1L	132322	20	19.42	0	19.40	0
		132022	20	19.48	0	19.52	0
400.41.4		132622	20	19.47	0	19.51	0
10MHz	25H	132322	20	19.44	0	19.48	0
		132022	20	19.48	0	19.55	0
	regress on t	132622	20	19.46	0	19.49	0
	25M	132322	20	19.49	0	19.54	0
		132022	20	19.54	0	19.57	0
	222	132622	20	19.52	0	19.57	0
	25L	132322	20	19.49	0	19.55	0
	:	132022	20	19.58	0	19.63	0
	Leept	132622	20	19.51	0	19.50	0
	50	132322	20	19.46	0	19.49	0
		132022	20	19.52	0	19.52	0
		132597	20	19.26	0	19.76	0
	1H	132322	20	19.32	0	19.77	0
		132047	20	19.38	0	19.81	0
		132597	20	19.44	0	19.87	0
	1M	132322	20	19.51	0	19.89	0
		132047	20	19.54	0	19.92	0
		132597	20	19.45	0	19.86	0
	1L	132322	20	19.43	0	19.86	0
	1	132047	20	19.53	0	19.86	0
		132597	20	19.44	0	19.41	0
15MHz	36H	132322	20	19.47	0	19.43	0
	0011	132047	20	19.53	0	19.52	0
		132597	20	19.50	0	19.44	0
	36M	132322	20	19.47	0	19.47	0
	11110000	132047	20	19.58	0	19.54	0
		132597	20	19.55	0	19.52	0
	36L	132322	20	19.54	0	19.55	0
		132047	20	19.58	0	19.56	0
		132597	20	19.53	0	19.45	0
	75	132322	20	19.53	0	19.50	0
		132047	20	19.59	0	19.55	0
	1	132572	20	19.32	0	19.53	0
	1H	132322	20	19.23	0	19.69	0
	1	132072	20	19.28	0	19.69	0
		132572	20	19.67	0	19.84	0
	1M	132322	20	19.58	0	19.92	0
	""	132072	20	19.62	0	19.99	0
		132572	20	19.42	0	19.64	0
	1L	132322	20	19.34	0	19.77	0
	1 "	132072	20	19.38	0	19.76	0
		132572	20	19.36	0	19.20	0
20MHz	50H	132372	20	19.36	0	19.35	0
ZOIVII IZ	300	132072	20	19.60	0	19.55	0
		132572	20	19.48	0	19.30	0
	50M	132372	20		0		0
	SUIVI			19.44		19.44	
	<b>—</b>	132072	20	19.54	0	19.47	0
	501	132572	20	19.57	0	19.38	0
	50L	132322	20	19.55	0	19.51	0
				19.58	0	19.52	0
	<u> </u>	132072	20				_
		132572	20	19.50	0	19.35	0
	100						0 0



### Table 11-12 LTE700-FDD71 #1

		LTE	700-FDD71 #	<b>‡</b> 1			
				Me	asured Pow	er (dBm) & MF	PR
				QP	SK	16Q	AM
BandWidth	RB No./Start	Channel	Tune-up	Measured Power	MPR	Measured Power	MPR
		133447	24	23.18	0	22.32	1
	1H	133297	24	23.13	0	22.29	1
		133147	24	23.20	0	22.72	1
		133447	24	23.36	0	22.53	1
	1M	133297	24	23.39	0	22.58	1
		133147	24	23.45	0	22.93	1
		133447	24	23.14	0	22.29	1
	1L	133297	24	23.14	0	22.31	1
		133147	24	23.16	0	22.65	1
		133447	24	22.23	1	21.29	2
5MHz	12H	133297	24	22.20	1	21.29	2
		133147	24	22.33	1	21.46	2
		133447	24	22.26	1	21.34	2
	12M	133297	24	22.28	1	21.36	2
		133147	24	22.34	1	21.45	2
		133447	24	22.28	1	21.34	2
	12L	133297	24	22.17	1	21.27	2
		133147	24	22.23	1	21.37	2
		133447	24	22.28	1	21.23	2
	25	133297	24	22.24	1	21.25	2
		133147	24	22.32	1	21.34	2
		133422	24	23.31	0	22.30	1
	1H	133297	24	23.21	0	22.10	1
		133172	24	23.25	0	22.57	1
		133422	24	23.48	0	22.39	1
	1M	133297	24	23.36	0	22.27	1
		133172	24	23.46	0	22.72	1
		133422	24	23.16	0	22.20	1
	1L	133297	24	23.14	0	22.15	1
		133172	24	23.20	0	22.51	1
		133422	24	22.28	1	21.34	2
10MHz	25H	133297	24	22.29	1	21.27	2
		133172	24	22.33	1	21.31	2
		133422	24	22.35	1	21.40	2
	25M	133297	24	22.30	1	21.27	2
		133172	24	22.32	1	21.32	2
		133422	24	22.27	1	21.36	2
	25L	133297	24	22.29	1	21.25	2
		133172	24	22.22	1	21.24	2
		133422	24	22.29	1	21.32	2
	50	133297	24	22.30	1	21.26	2
		133172	24	22.27	1	21.25	2
						1	



133397 24 23.26 0 22.68 1H 133297 24 23.11 0 22.08 133197 24 23.22 0 22.56 133397 24 23.26 0 22.73 1M 133297 24 23.24 0 22.20 133197 24 23.40 0 22.67 133397 24 23.18 0 22.59 1L 133297 24 23.15 0 22.09 133197 24 23.29 0 22.55	1 1 1 1 1 1 1
133197     24     23.22     0     22.56       133397     24     23.26     0     22.73       1M     133297     24     23.24     0     22.20       133197     24     23.40     0     22.67       133397     24     23.18     0     22.59       1L     133297     24     23.15     0     22.09       133197     24     23.29     0     22.55	1 1 1 1
133397     24     23.26     0     22.73       1M     133297     24     23.24     0     22.20       133197     24     23.40     0     22.67       133397     24     23.18     0     22.59       1L     133297     24     23.15     0     22.09       133197     24     23.29     0     22.55	1 1 1
1M     133297     24     23.24     0     22.20       133197     24     23.40     0     22.67       133397     24     23.18     0     22.59       1L     133297     24     23.15     0     22.09       133197     24     23.29     0     22.55	1 1 1
133197 24 23.40 0 22.67 133397 24 23.18 0 22.59 1L 133297 24 23.15 0 22.09 133197 24 23.29 0 22.55	1
133397 24 23.18 0 22.59 1L 133297 24 23.15 0 22.09 133197 24 23.29 0 22.55	1
1L 133297 24 23.15 0 22.09 133197 24 23.29 0 22.55	
133197 24 23.29 0 22.55	1
1 100007   04   00 00   4   04 00	1
133397 24 22.30 1 21.26	2
15MHz 36H 133297 24 22.26 1 21.25	2
133197 24 22.32 1 21.38	2
133397 24 22.26 1 21.25	2
36M 133297 24 22.24 1 21.25	2
133197 24 22.36 1 21.37	2
133397 24 22.27 1 21.21	2
36L 133297 24 22.24 1 21.23	2
133197 24 22.26 1 21.28	2
133397 24 22.33 1 21.28	2
75 133297 24 22.28 1 21.26	2
133197 24 22.33 1 21.30	2
133372 24 23.28 0 22.38	1
1H 133297 24 23.12 0 22.33	1
133222 24 23.12 0 22.36	1
133372 24 23.44 0 <b>22.61</b>	1
1M 133297 24 23.32 0 <b>22.56</b>	1
133222 24 23.38 0 <b>22.59</b>	1
133372 24 23.22 0 22.32	1
1L 133297 24 23.11 0 22.31	1
133222 24 23.11 0 22.35	1
133372 24 22.26 1 21.32	2
20MHz 50H 133297 24 22.27 1 21.36	2
133222 24 22.33 1 21.34	2
133372 24 22.29 1 21.28	2
50M 133297 24 22.29 1 21.28	2
133222 24 22.29 1 21.28	2
133372 24 22.24 1 21.19	2
50L 133297 24 22.22 1 21.19	2
133222 24 22.20 1 21.19	2
133372 24 22.23 1 21.22	2
100 133297 24 22.23 1 21.23	2
133222 24 22.25 1 21.24	2



The conducted power measurement results of downlink LTE CA Conduted Power are as below (Normal Power):

		Nominal	1 0 000	<i>)</i> ·										
					PCC					SC	CC	Power		
DLITE		PCC	PCC	PCC	PCC	PCC				SCC	900	Rel 8	Rel 10 DL	
DL LTE	PCC	Band	UL	UL	DL	DL	PCC UL	PCC DL	SCC	Band	SCC	LTETx	LTE CA Tx	Tune-
CA Class	Band	width	RB	RB	RB	RB	Channel	Channel	Band	width	DL	Power(	Power(dBm	up
		(MHz)	size	offset	size	offset				(MHz)	Channel	dBm)	)	
12A+4A	12	5	1	12	25	0	23095	5095	4	20	2175	23.49	23.43	24
2A+4A	2	5	1	12	25	0	19175	1175	4	20	2175	23.43	23.45	24
5A+4A	5	25	1	12	25	0	20525	2525	4	20	2175	23.12	23.01	23.5
66A+66A	66	5	1	12	25	0	131997	66511	66	20	67236	23.42	23.48	23.5
66B	66	5	1	12	25	0	131997	66511	66	5	66509	23.42	23.4	23.5
66C	66	20	1	50	100	0	132072	66536	66	20	66734	23.41	23.46	23.5
2A+66A	2	5	1	12	25	0	19175	1175	66	20	66786	23.43	23.47	24
66A+2A	66	5	1	12	25	0	131997	66511	2	20	900	23.42	23.46	23.5
12A+66A	12	5	1	12	25	0	23095	5095	66	20	66786	23.49	23.45	24
66A+12A	66	5	1	12	25	0	131997	66511	12	10	5095	23.42	23.46	23.5
2A+2A	2	5	1	12	25	0	19175	1175	2	20	700	23.43	23.44	24
2A+12A	2	5	1	12	25	0	19175	1175	12	10	5095	23.43	23.47	24
12A+2A	12	5	1	12	25	0	23095	5095	2	20	900	23.49	23.46	24
2C	2	2	1	12	25	0	19167	1167	2	20	1050	23.43	23.45	24
2A+5A	2	5	1	12	25	0	19175	1175	5	10	2525	23.43	23.44	24
5A+2A	5	5	1	12	25	0	20525	2525	2	20	900	23.12	22.97	23.5
71A+2A	71	10	1	24	50	9	133422	68886	2	20	900	23.48	23.34	24
2A+71A	2	5	1	12	25	0	19175	1175	71	20	68761	23.43	23.59	24
71A+4A	71	10	1	24	50	9	133422	68886	4	20	2175	23.48	23.34	24
66A+71A	66	5	1	12	25	0	131997	66511	71	20	68761	23.42	23.53	23.5
71A+66A	71	10	1	24	50	9	133422	68886	66	20	66786	23.48	23.33	24

Note: Testing is not required in bands or modes not intended/allowed for US operation.



The conducted power measurement results of downlink LTE CA Conduted Power are as below (Low Power):

					PCC					SCC			Power	
DLITE		PCC	PCC	PCC	PCC	PCC				SCC	SCC	Rel 8	Rel 10 DL	
DL LTE	PCC	Band	UL	UL	DL	DL	PCC UL	PCC DL	SCC	Band	SCC DL	LTETx	LTE CA Tx	Tune-
CA Class	Band	width	RB	RB	RB	RB	Channel	Channel	Band	width	Channel	Power(	Power(dBm	up
		(MHz)	size	offset	size	offset				(MHz)	Chamie	dBm)	)	
2A+4A	2	3	1	7	15	0	18615	615	4	20	2175	20.07	20.11	20.5
66A+66A	66	5	1	12	25	0	131997	66511	66	20	67236	19.71	19.64	20
66B	66	5	1	12	25	0	131997	66511	66	5	66509	19.71	19.65	20
66C	66	20	1	50	100	0	132572	67036	66	20	67234	19.67	19.49	20
2A+66A	2	3	1	7	15	0	18615	615	66	20	66786	20.07	20.12	20.5
66A+2A	66	5	1	12	25	0	132322	66786	2	20	900	19.72	19.61	20
66A+12A	66	5	1	12	25	0	132322	66786	12	10	5095	19.72	19.62	20
2A+2A	2	5	1	12	25	0	19175	1175	2	20	700	20.06	20.09	20.5
2A+12A	2	3	1	7	15	0	18615	615	12	10	5095	20.07	20.12	20.5
2C	2	5	1	12	25	0	19167	1167	2	20	1050	20.08	20.11	20.5
2A+5A	2	3	1	7	15	0	18615	615	5	10	2525	20.07	20.09	20.5
2A+71A	2	3	1	7	15	0	18615	615	71	20	68761	20.07	19.93	20.5
66A+71A	66	5	1	12	25	0	132322	66786	71	20	68761	19.72	19.65	20

Note: Testing is not required in bands or modes not intended/allowed for US operation.



### 11.4 Wi-Fi and BT Measurement result

The output power of BT antenna is as following:

	Bluetooth Power											
Mode	Channel	Frequence	Tune-up	Measured								
	78	2480 MHz	6.5	6.02								
GFSK	39	2441 MHz	8	7.73								
	0	2402 MHz	9	8.9								
	78	2480 MHz	6.5	5.49								
EDR2M-4_DQPSK	39	2441 MHz	8	7.16								
	0	2402 MHz	9	8.36								
	78	2480 MHz	6.5	5.67								
EDR3M-8DPSK	39	2441 MHz	8	7.31								
	0	2402 MHz	9	8.54								

The average conducted power for 2.4G Wi-Fi is as following:

Table 11-13 WLAN2450 #1

Dand	Mode	WLAN2		Data Data	Tune	Monaured
Band	Mode	Channel	Frequence	Data Rate	Tune-up	Measured
		11	2462 MHz		14.50	14.39
		6	2437 MHz	5.5Mbps	13.50	13.28
		1	2412 MHz		13.00	12.92
		11	2462 MHz	1000000	15.00	14.12
		6	2437 MHz	2Mbps	1	/
	802.11b	1	2412 MHz		/	/
	002.110	11	2462 MHz		14.50	14.14
		6	2437 MHz	1Mbps	13.50	13.36
		1	2412 MHz		13.00	12.98
		11	2462 MHz		14.50	13.93
		6	2437 MHz	11Mbps	1	1
		1	2412 MHz		1	1
		11	2462 MHz	100000	12.00	11.09
		6	2437 MHz	6Mbps	11.00	10.46
		1	2412 MHz		11.00	10.18
		11	2462 MHz		12.00	11.07
		6	2437 MHz	9Mbps	1	1
		1	2412 MHz		/	/
		11	2462 MHz		12.00	11.04
		6	2437 MHz	12Mbps	/	/
		1	2412 MHz		/	/
		11	2462 MHz		12.00	10.99
		6	2437 MHz	18Mbps	1	/
	000.44	1	2412 MHz	'	1	1
	802.11g	11	2462 MHz		12.00	10.95
		6	2437 MHz	24Mbps	1	/
		1	2412 MHz		/	/
		11	2462 MHz		10.00	9.38
		6	2437 MHz	36Mbps	1	1
WLAN 2.4G		1	2412 MHz	00000	1	,
		11	2462 MHz		10.00	9.43
20M		6	2437 MHz	48Mbps	/	1
		1	2412 MHz	40111000	1	1
		11	2462 MHz	$\vdash$	10.00	9.42
		6	2437 MHz	54Mbps	/	1
		1	2412 MHz	очинра	,	,
	7	11	2462 MHz		12.00	10.91
		6	2437 MHz	MCS0	11.00	10.91
		1		WICOU	7.000	9.95
			2412 MHz	$\vdash \vdash \vdash$	11.00	
		11	2462 MHz	MOOA	12.00	10.86
		6	2437 MHz	MCS1	1	1
		1	2412 MHz	$\vdash$	/	/
		11	2462 MHz		12.00	10.81
		6	2437 MHz	MCS2	/	1
		1	2412 MHz	-	1	1
		11	2462 MHz		12.00	10.83
		6	2437 MHz	MCS3	1	1
	802.11n	1	2412 MHz		1	1

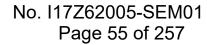


	20M	11	2462 MHz	,	12.00	10.81
		6	2437 MHz	MCS4	1	1
		1	2412 MHz		1	1
	1 [	11	2462 MHz	7	10.00	9.26
	1 1	6	2437 MHz	MCS5	1	1
	1 1	1	2412 MHz		1	1
	1 1	11	2462 MHz		10.00	9.27
	1 1	6	2437 MHz	MCS6	1	1
	1 1	1	2412 MHz		1	1
	1 1	11	2462 MHz		10.00	9.26
	1 1	6	2437 MHz	MCS7	/	1
	1 1	1	2412 MHz	(3433,000,000,000	1	1
		11	2462 MHz		11.00	10.64
	1 1	6	2437 MHz	MCS0	11.00	10.35
	1 1	1	2412 MHz		11.00	10.09
	1 1	11	2462 MHz	MCS1	11.00	10.61
	1 1	6	2437 MHz		1	1
	1 1	1	2412 MHz		1	1
	1 1	11	2462 MHz	MCS2	11.00	10.58
	1 1	6	2437 MHz		/	/
	1 1	1	2412 MHz		/	/
	1 1	11	2462 MHz		11.00	10.57
	1 1	6	2437 MHz	MCS3	/	/
WLAN 2.4G	802.11n	1	2412 MHz		/	/
40M	40M	11	2462 MHz		11.00	10.56
	1 1	6	2437 MHz	MCS4	/	/
	1 1	1	2412 MHz		/	/
	1 1	11	2462 MHz		10.00	8.98
	1 1	6	2437 MHz	MCS5	/	/
	1 1	1	2412 MHz		/	/
		11	2462 MHz		10.00	8.97
	1 1	6	2437 MHz	MCS6	1	1
	1 1	1	2412 MHz		/	/
		11	2462 MHz		10.00	8.94
	1 1	6	2437 MHz	MCS7	/	1
	1 1	1	2412 MHz		/	/



### Table 11-14 WLAN2450 #2

Band	Mode	Channel	450 #2 Frequence	Data Rate	Tune-up	Measured
Zuriu	Wode	11	2462 MHz	Data Hate	20.00	19.54
		6	2437 MHz	5.5Mbps	19.00	18.78
		1	2412 MHz	O.OMBP3	19.00	18.59
		11	2462 MHz		20.00	18.99
		6	2437 MHz	2Mbps	/	/
	100 Table 1	1	2412 MHz	Linopo	1	1
	802.11b	11	2462 MHz		19.50	19.01
		6	2437 MHz	1Mbps	19.00	18.53
		1	2412 MHz	1111000	19.00	18.19
		11	2462 MHz		19.50	19.14
		6	2437 MHz	11Mbps	1	/
		1	2412 MHz		1	1
		11	2462 MHz		17.00	16.88
		6	2437 MHz	6Mbps	17.00	16.26
		1	2412 MHz		16.00	15.89
		11	2462 MHz		17.00	16.83
		6	2437 MHz	9Mbps	/	/
		1	2412 MHz		/	1
		11	2462 MHz		17.00	16.79
		6	2437 MHz	12Mbps	/	1
		1	2412 MHz		/	1
		11	2462 MHz		17.00	16.72
		6	2437 MHz	18Mbps	/	1
	802.11g	1	2412 MHz		/	1
		11	2462 MHz		17.00	16.71
		6	2437 MHz	24Mbps	/	1
		1	2412 MHz		/	1
		11	2462 MHz		17.00	16.11
		6	2437 MHz	36Mbps	1	1
WLAN 2.4G		1	2412 MHz	'	/	1
20M		11	2462 MHz		17.00	16.08
20101		6	2437 MHz	48Mbps	1	1
		1	2412 MHz		1	1
		11	2462 MHz		17.00	16.09
		6	2437 MHz	54Mbps	1	1
		1	2412 MHz		1	1
	1	11	2462 MHz		17.00	16.73
		6	2437 MHz	MCS0	17.00	16.19
		1	2412 MHz		17.00	15.77
		11	2462 MHz		17.00	16.68
		6	2437 MHz	MCS1	1	1
		1	2412 MHz		1	1
		11	2462 MHz		17.00	16.66
		6	2437 MHz	MCS2	/	/
		1	2412 MHz		1	1
		11	2462 MHz	-	17.00	16.67
		6	2437 MHz	MCS3	/	/
	802.11n	1	2412 MHz		1	1





	20M	11	2462 MHz		17.00	16.64
	1 [	6	2437 MHz	MCS4	1	/
		1	2412 MHz		1	/
	1 [	11	2462 MHz		17.00	15.98
	1 1	6	2437 MHz	MCS5	1	1
	1 1	1	2412 MHz		/	1
	1 1	11	2462 MHz		17.00	15.99
	1 1	6	2437 MHz	MCS6	1	/
	1 1	1	2412 MHz		/	1
	1 1	11	2462 MHz		17.00	15.98
	1 1	6	2437 MHz	MCS7	/	1
	1 1	1	2412 MHz		1	1
		11	2462 MHz		17.00	16.48
	1 1	6	2437 MHz	MCS0	17.00	16.21
	1 1	1	2412 MHz		17.00	15.92
	1 1	11	2462 MHz	MCS1	17.00	16.46
	1 1	6	2437 MHz		/	1
	1 1	1	2412 MHz		1	1
	1 1	11	2462 MHz		17.00	16.46
	1 1	6	2437 MHz	MCS2	/	/
	1 1	1	2412 MHz		/	1
	1 1	11	2462 MHz		17.00	16.45
	1 1	6	2437 MHz	MCS3	/	/
WLAN 2.4G	802.11n	1	2412 MHz		/	1
40M	40M	11	2462 MHz		17.00	16.44
		6	2437 MHz	MCS4	/	/
	1 1	1	2412 MHz		/	/
	1 1	11	2462 MHz		17.00	15.84
	- I - I	6	2437 MHz	MCS5	/	1
	1 1	1	2412 MHz		/	1
	1 1	11	2462 MHz		17.00	15.86
		6	2437 MHz	MCS6	/	/
	1 1	1	2412 MHz		/	1
	1 1	11	2462 MHz		17.00	15.86
	1 1	6	2437 MHz	MCS7	/	/
	1 1	1	2412 MHz		1	1



# The average conducted power for 5G Wi-Fi is as following:

	WLAN UNII-1 #1										
802.11n 20M Measured Power (dBm)											
Channel\data rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7			
36(5180 MHz)	17.21	\	\	\	\	17.73	/	\			
40(5200 MHz)	17.58	\	\	\	\	18.09	\	\			
44(5220 MHz)	17.83	17.71	17.69	17.61	17.58	18.38	18.35	18.36			
48(5240 MHz)	17.88	16.89	16.97	16.93	16.97	18.23	17.80	17.82			

	WLAN UNII-2A #1											
Ī	802.11n Measured Power (dBm)											
Ī	Channel\data rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7			
Ī	52(5260 MHz)	17.79	\	\	\	\	18.19	\	/			
Ī	56(5280 MHz)	17.66	\	\	\	\	17.98	\	/			
	60(5300 MHz)	17.63	\	\	\	\	18.02	\	/			
ſ	64(5320 MHz)	17.85	17.05	17.14	17.08	17.07	18.25	17.82	17.81			

WLAN UNII-3 #1											
802.11n Measured Power (dBm)											
Channel\data rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7			
149(5745 MHz)	17.61	16.45	16.38	16.42	16.47	17.66	17.34	17.36			
153(5765 MHz)	17.07	\	\	\	\	17.57	\	\			
157(5785 MHz)	16.87	\	\	\	\	17.59	\	\			
161(5805 MHz)	16.63	\	\	\	\	17.07	\	/			
165(5825 MHz)	16.26	\	\	\	\	16.69	\	/			

# Tune up

WLAN UNII-1									
802.11n 20M Tune Up (dBm)									
Channel\data rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
36(5180 MHz)	18.80	/	\	\	\	\	/	\	
40(5200 MHz)	18.80	/	\	/	\	/	/	\	
44(5220 MHz)	18.80	18.50	18.50	18.50	18.50	18.50	18.50	18.50	
48(5240 MHz)	18.80	18.50	18.50	18.50	18.50	18.50	18.50	18.50	

	WLAN UNII-2A										
802.11n Tune Up (dBm)											
Channel\data rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7			
52(5260 MHz)	18.80	18.50	18.50	18.50	18.50	18.50	18.50	18.50			
56(5280 MHz)	18.80	\	\	\	\	\	\	\			
60(5300 MHz)	18.80	\	\	\	\	\	\	\			
64(5320 MHz)	18.80	\	\	\	\	\	\	\			

	WLAN UNII-3									
802.11n Tune Up (dBm)										
Channel\data rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
149(5745 MHz)	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00		
153(5765 MHz)	18.00	\	\	\	\	\	/	\		
157(5785 MHz)	18.00	/	/	/	/	/	/	\		
161(5805 MHz)	18.00	\	\	\	\	\	\	\		
165(5825 MHz)	18.00	\	\	\	\	\	/	\		

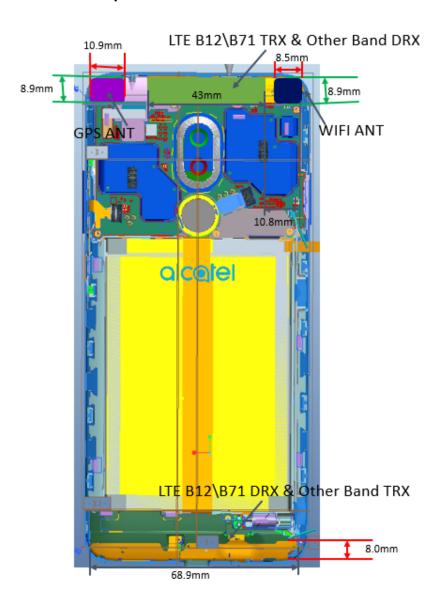


## 12 Simultaneous TX SAR Considerations

### 12.1 Introduction

The following procedures adopted from "FCC SAR Considerations for Cell Phones with Multiple Transmitters" are applicable to handsets with built-in unlicensed transmitters such as 802.11 a/b/g and Bluetooth devices which may simultaneously transmit with the licensed transmitter. For this device, the BT and Wi-Fi can transmit simultaneous with other transmitters.

### 12.2 Transmit Antenna Separation Distances



**Picture 12.1 Antenna Locations** 



### 12.3 SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR v01, the edges with less than 2.5 cm distance to the antennas need to be tested for SAR.

SAR measurement positions										
Mode Front Rear Left edge Right edge Top edge Bottom edge										
Main antenna Top Yes Yes Yes Yes No										
Main antenna Bottom	Main antenna Bottom Yes Yes Yes No Yes									
WLAN	WLAN Yes Yes No Yes No									

### 12.4 Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied. The 1-g SAR test exclusion threshold for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR, where

- f(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

Table 12.1: Standalone SAR test exclusion considerations

			SAR test	RF outp	ut power	
Band/Mode	F(GHz)	Position	exclusion threshold (mW)	dBm	mW	SAR test exclusion
Bluetooth	2.441	Head	9.6	9	7.94	Yes
Bluetootii	2.441	Body	19.2	9	7.94	Yes
2.4GHz WLAN 802.11 b	2.45	Head	9.58	14.5	28.18	No
2.4G12 WEAN 602.11 b	2.45	Body	19.17	20	100.00	No
	5.2	Head	6.58	18.8	75.86	No
		Body	13.16	18.8	75.86	No
	5.3	Head	6.52	18.8	75.86	No
5GHz WLAN	5.5	Body	13.03	18.8	75.86	No
SGHZ WLAIN	5.6	Head	6.34	18.8	75.86	No
	5.0	Body	12.68	18.8	75.86	No
	5.8	Head	6.23	18.8	75.86	No
	5.0	Body	12.46	18.8	75.86	No



## 13 Evaluation of Simultaneous

Table 13.1: The sum of reported SAR values for main antenna and 2.4G WiFi

	Position Main antenna WiFi		Sum	
Highest reported				
SAR value for	Left hand, Touch cheek	0.43	0.41	0.84
Head				
Highest reported				
SAR value for	Rear	0.96	0.53	1.49
Body 10mm				
Highest reported				
SAR value for	Rear	1.10	0.25	1.35
Body 15mm				

Table 13.2: The sum of reported SAR values for main antenna and 5G WiFi

	Position	Main antenna	WiFi	Sum	
Highest reported					
SAR value for	Right hand, Touch cheek	0.54	1.03	1.57	
Head					
Highest reported					
SAR value for	Bottom	1.18	/	1.18	
Body					
Highest reported					
SAR value for	Rear	1.10	0.22	1.32	
Body 15mm					

Note: The test distance of Rear WiFi is 10mm. It should be higher than the value test with 10mm. So we think the sum is more conservative.

Table 13.3: The sum of reported SAR values for main antenna and BT

	Position	Main antenna	ВТ	Sum	
Maximum reported	Left hand, Touch cheek	0.54	0.33	0.07	
SAR value for Head	Leit Hallu, Touch Cheek	0.54	0.33	0.87	
Maximum reported	Door	1 10	0.47	1.35	
SAR value for Body	Rear	1.18	0.17	1.35	

[1] - Estimated SAR for Bluetooth (see the table 13.3)



Table 13.4: Estimated SAR for Bluetooth

Mode/Band	F (GHz)	Position	Distance	Upper limit of power *		Estimate d <sub>1g</sub>
Wiode/Baild			(mm)	dBm	mW	(W/kg)
Bluetooth	2.441	Head	5	9	7.94	0.33
Bluetooth	2.441	Body	10	9	7.94	0.17

<sup>\* -</sup> 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:

(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[ $\sqrt{f(GHz)/x}$ ] W/kg for test separation distances  $\leq$  50 mm;

where x = 7.5 for 1-g SAR.

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

#### Conclusion:

According to the above tables, the sum of reported SAR values is<1.6W/kg. So the simultaneous transmission SAR with volume scans is not required.