



# 1 Normal and Maximum Output Power

KDB 447498 D01 at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

## 1.1 GSM Mode

GSM 850 Full Power ANT0&1		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	128 /824.2	190 /836.6	251 /848.8		MAX	128 /824.2	190 /836.6	251 /848.8
GSM	CS	33.50	32.92	32.83	33.00	9.03	24.47	23.89	23.80	23.97
GPRS/ EGPRS (GMSK)	1 Tx Slot	33.50	32.90	33.15	32.97	9.03	24.47	23.87	24.12	23.94
	2 Tx Slots	30.50	29.51	29.72	29.51	6.02	23.98	23.49	23.70	23.49
	3 Tx Slots	29.50	28.64	28.37	28.19	4.26	<b>24.74</b>	24.38	24.11	23.93
	4 Tx Slots	28.00	27.14	27.02	27.21	3.01	24.49	24.13	24.01	24.20
EGPRS (8PSK)	1 Tx Slot	27.00	25.90	25.88	25.75	9.03	16.97	16.87	16.85	16.72
	2 Tx Slots	25.50	24.73	24.31	24.30	6.02	18.98	18.71	18.29	18.28
	3 Tx Slots	23.00	22.34	22.39	21.90	4.26	18.74	18.08	18.13	17.64
	4 Tx Slots	21.00	20.17	20.38	20.30	3.01	17.49	17.16	17.37	17.29

Notes:1. The worst-case configuration and mode for SAR testing is determined to be as follows:  
 2. Standalone: GSM 850 GMSK (GPRS) mode with 3 time slots for Max power, based on the output power measurements above.



GSM 1900 Full Power ANT0&1		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	30.50	29.63	29.50	29.53	9.03	21.47	20.60	20.47	20.50
GPRS/ EGPRS (GMSK)	1 Tx Slot	30.50	29.59	29.52	29.89	9.03	21.47	20.56	20.49	20.86
	2 Tx Slots	28.00	26.83	27.10	27.11	6.02	21.48	20.81	21.08	21.09
	3 Tx Slots	26.50	25.63	25.59	25.92	4.26	<b>22.24</b>	21.37	21.33	21.66
	4 Tx Slots	24.50	23.96	23.93	23.96	3.01	21.49	20.95	20.92	20.95
EGPRS (8PSK)	1 Tx Slot	26.00	24.94	24.99	25.25	9.03	16.97	15.91	15.96	16.22
	2 Tx Slots	24.00	23.30	23.28	23.51	6.02	17.98	17.28	17.26	17.49
	3 Tx Slots	21.50	20.57	20.70	20.89	4.26	17.24	16.31	16.44	16.63
	4 Tx Slots	20.50	19.32	19.47	19.71	3.01	17.49	16.31	16.46	16.70

Notes: 1. The worst-case configuration and mode for SAR testing is determined to be as follows:  
 2. Standalone: GSM 900 GMSK (GPRS) mode with 3 time slots for Max power, based on the output power measurements above.

GSM 1900 ANT1 Level 1		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	28.00	27.15	27.23	27.55	9.03	<b>18.97</b>	18.12	18.20	18.52
GPRS/ EGPRS (GMSK)	1 Tx Slot	28.00	27.37	27.48	27.74	9.03	<b>18.97</b>	18.34	18.45	18.71
	2 Tx Slots	24.00	23.52	23.58	23.53	6.02	17.98	17.50	17.56	17.51
	3 Tx Slots	23.00	22.50	22.60	22.50	4.26	18.74	18.24	18.34	18.24
	4 Tx Slots	21.00	20.70	19.57	20.66	3.01	17.99	17.69	16.56	17.65
EGPRS (8PSK)	1 Tx Slot	26.00	25.51	25.61	25.67	9.03	16.97	16.48	16.58	16.64
	2 Tx Slots	24.00	23.42	23.45	23.35	6.02	17.98	17.40	17.43	17.33
	3 Tx Slots	21.00	20.81	20.91	20.97	4.26	16.74	16.55	16.65	16.71
	4 Tx Slots	20.00	19.49	18.45	19.79	3.01	16.99	16.48	15.44	16.78

Notes: 1. The worst-case configuration and mode for SAR testing is determined to be as follows:  
 2. Standalone: GSM 900 GMSK (GPRS) mode with 1 time slots for Max power, based on the output power measurements above.



GSM 1900 ANT1 Level 2&3		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	26.50	26.03	26.08	26.03	9.03	<b>17.47</b>	17.00	17.05	17.00
GPRS/ EGPRS (GMSK)	1 Tx Slot	26.50	26.23	26.30	26.22	9.03	<b>17.47</b>	17.20	17.27	17.19
	2 Tx Slots	23.00	21.91	22.41	22.34	6.02	16.98	15.89	16.39	16.32
	3 Tx Slots	21.50	20.87	20.92	20.85	4.26	17.24	16.61	16.66	16.59
	4 Tx Slots	20.00	19.24	18.03	19.64	3.01	16.99	16.23	15.02	16.63
EGPRS (8PSK)	1 Tx Slot	26.00	25.49	25.54	25.61	9.03	16.97	16.46	16.51	16.58
	2 Tx Slots	23.00	22.84	22.91	22.72	6.02	16.98	16.82	16.89	16.70
	3 Tx Slots	21.00	20.90	20.92	20.88	4.26	16.74	16.64	16.66	16.62
	4 Tx Slots	20.00	19.65	18.61	19.76	3.01	16.99	16.64	15.60	16.75

Notes:1.The worst-case configuration and mode for SAR testing is determined to be as follows:  
2. Standalone: GSM 900 GMSK (GPRS) mode with 1 time slots for Max power, based on the output power measurements above.

## 1.2 WCDMA Mode

The following tests were completed according to the test requirements outlined in the 3GPP TS34.121 specification.

WCDMA		Band II(dBm) Full Power ANT0&1				Band II(dBm) ANT1 Level 1			
Tx Channel		9262	9400	9538	Tune-up	9262	9400	9538	Tune-up
Frequency(MHz)		1852.4	1880	1907.6	Limit	1852.4	1880	1907.6	Limit
RMC	12.2kbps	23.81	23.90	23.99	24.00	18.61	18.67	18.63	19.00
HSDPA	Sub 1	22.80	22.93	22.99	23.50	18.20	18.31	18.17	18.50
	Sub 2	22.85	22.89	23.01	23.50	18.23	18.28	18.29	18.50
	Sub 3	22.32	22.40	22.52	23.00	17.19	17.27	17.12	18.00
	Sub 4	22.32	22.41	22.46	23.00	17.41	17.26	17.17	18.00
HSUPA	Sub 1	22.77	22.96	23.04	23.50	18.41	18.30	18.45	19.00
	Sub 2	19.84	19.95	20.00	20.50	15.65	15.74	15.75	16.00
	Sub 3	20.83	20.90	21.05	21.50	16.90	16.77	16.69	17.00
	Sub 4	19.86	19.94	20.01	20.50	15.81	15.79	15.69	16.00
	Sub 5	22.74	22.90	22.98	23.50	18.27	18.31	18.26	19.00

Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

WCDMA		Band II(dBm) ANT1 Level 2&3				Band II(dBm) ANT0&1 Level 5&6			
Tx Channel		9262	9400	9538	Tune-up	9262	9400	9538	Tune-up
Frequency(MHz)		1852.4	1880	1907.6	Limit	1852.4	1880	1907.6	Limit
RMC	12.2kbps	17.60	17.68	17.64	18.00	21.78	21.80	21.78	22.00
HSDPA	Sub 1	17.43	17.30	17.30	17.50	21.24	21.31	21.38	21.50
	Sub 2	17.27	17.26	17.38	17.50	21.21	21.29	21.26	21.50
	Sub 3	16.15	16.21	16.21	16.50	20.30	20.25	20.30	21.00
	Sub 4	16.23	16.22	16.27	16.50	20.36	20.28	20.25	21.00
HSUPA	Sub 1	17.05	17.20	17.34	17.50	19.85	19.71	19.72	20.00
	Sub 2	14.69	14.81	14.83	15.00	17.48	17.35	17.34	18.00
	Sub 3	15.66	15.74	15.75	16.00	18.14	18.24	18.19	19.00
	Sub 4	14.82	14.77	14.68	15.00	17.34	17.24	17.38	18.00
	Sub 5	17.29	17.25	17.33	17.50	19.84	19.81	19.71	20.00

Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".



WCDMA		Band IV(dBm) Full Power ANT0				Band IV(dBm) ANT1 Level 1			
Tx Channel		1312	1413	1513	Tune-up	1312	1413	1513	Tune-up
Frequency(MHz)		1712.4	1732.6	1752.6	Limit	1712.4	1732.6	1752.6	Limit
RMC	12.2kbps	24.30	24.27	24.16	24.50	17.54	17.57	17.49	18.50
HSDPA	Sub 1	22.87	22.81	22.79	23.50	16.71	16.61	16.72	17.00
	Sub 2	22.87	22.87	22.80	23.50	16.70	16.70	16.65	17.00
	Sub 3	22.36	22.37	22.27	23.00	16.13	16.03	16.22	17.00
	Sub 4	22.25	22.71	22.25	23.00	16.13	16.00	16.09	17.00
HSUPA	Sub 1	22.29	22.31	22.27	23.00	16.61	16.71	16.73	17.00
	Sub 2	20.37	20.34	20.18	21.00	14.60	14.74	14.70	15.00
	Sub 3	21.34	21.29	21.24	21.50	14.01	14.13	13.98	15.00
	Sub 4	20.34	20.36	20.32	21.00	14.03	14.01	13.93	15.00
	Sub 5	22.38	22.35	22.28	23.00	16.85	16.71	16.56	17.00

Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

WCDMA		Band IV(dBm) ANT1 Level 2&3				Band IV(dBm) ANT0&1 Level 4			
Tx Channel		1312	1413	1513	Tune-up	1312	1413	1513	Tune-up
Frequency(MHz)		1712.4	1732.6	1752.6	Limit	1712.4	1732.6	1752.6	Limit
RMC	12.2kbps	15.97	16.01	16.00	17.00	21.62	21.61	21.54	22.00
HSDPA	Sub 1	15.16	15.15	15.26	16.00	20.08	20.13	20.02	21.00
	Sub 2	15.19	15.04	15.09	16.00	20.27	20.16	20.22	21.00
	Sub 3	14.61	14.51	14.54	15.50	19.55	19.58	19.73	20.00
	Sub 4	14.59	14.67	14.55	15.50	19.37	19.37	19.31	20.00
HSUPA	Sub 1	15.32	15.25	15.34	16.00	20.31	20.18	20.29	21.00
	Sub 2	13.25	13.19	13.13	14.00	18.19	18.05	18.16	19.00
	Sub 3	12.77	12.73	12.63	13.50	17.69	17.65	17.52	18.50
	Sub 4	12.45	12.41	12.27	13.50	17.99	18.12	18.24	18.50
	Sub 5	15.22	15.16	15.27	16.00	20.06	20.15	20.26	21.00

Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

WCDMA		Band IV(dBm) ANT0&1 Level 5&6			
Tx Channel		1312	1413	1513	Tune-up Limit
Frequency(MHz)		1712.4	1732.6	1752.6	
RMC	12.2kbps	20.62	20.61	20.56	21.50
HSDPA	Sub 1	20.16	20.13	20.28	21.00
	Sub 2	20.11	20.07	19.95	21.00
	Sub 3	19.28	19.15	19.28	20.00
	Sub 4	18.96	19.07	19.14	20.00
HSUPA	Sub 1	19.54	19.66	19.76	20.00
	Sub 2	17.64	17.63	17.72	18.00
	Sub 3	17.09	17.07	16.92	18.00
	Sub 4	17.12	17.02	16.98	18.00
	Sub 5	19.51	19.65	19.62	20.00

Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

WCDMA		Band V(dBm) Full Power ANT0&1			
Tx Channel		4132	4183	4233	Tune-up Limit
Frequency(MHz)		826.4	836.6	846.6	
RMC	12.2kbps	23.77	23.75	23.68	25.00
HSDPA	Sub 1	22.77	22.75	22.68	23.50
	Sub 2	22.80	22.74	22.66	23.50
	Sub 3	22.26	22.20	22.15	23.00
	Sub 4	22.24	22.22	22.15	23.00
HSUPA	Sub 1	22.70	22.81	22.68	23.50
	Sub 2	20.85	20.82	20.70	21.50
	Sub 3	21.76	21.82	21.64	22.50
	Sub 4	20.78	20.82	20.73	21.50
	Sub 5	22.77	22.76	22.70	23.50

Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

### 1.3 LTE Mode

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

**Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3**

Modulation	Channel bandwidth / Transmission bandwidth (N <sub>RB</sub> )						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3

LTE FDD Band 2 Full Power ANT0&1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	23.17	23.21	22.68	24.00
		1	2	23.24	23.27	22.57	24.00
		1	5	23.19	23.24	22.41	24.00
		3	0	23.21	23.21	22.10	24.00
		3	2	23.27	23.26	21.86	24.00
		3	3	23.20	23.25	21.57	24.00
		6	0	22.30	22.30	20.80	23.00
	16QAM	1	0	22.40	22.79	21.05	23.00
		1	2	22.46	22.76	20.93	23.00
		1	5	22.43	22.72	20.84	23.00
		3	0	22.33	22.52	21.22	23.00
		3	2	22.43	22.53	21.29	23.00
		3	3	22.40	22.48	21.14	23.00
		6	0	21.44	21.26	20.71	22.00
	64QAM	1	0	21.33	21.19	21.28	22.00
		1	2	21.20	21.46	20.82	22.00
		1	5	21.39	21.51	21.01	22.00
		3	0	21.21	21.23	21.33	22.00
		3	2	21.08	21.50	20.86	22.00
		3	3	21.45	21.44	21.20	22.00
		6	0	20.47	20.50	20.36	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
3MHz	QPSK	1	0	23.26	23.28	23.35	24.00
		1	7	23.36	23.40	22.92	24.00



		1	14	23.30	23.38	22.53	24.00	
		8	0	22.36	22.38	22.26	23.00	
		8	4	22.43	22.46	21.69	23.00	
		8	7	22.35	22.39	21.35	23.00	
		15	0	22.36	22.37	21.76	23.00	
	16QAM	1	0	22.37	22.77	22.21	23.00	
		1	7	22.41	22.88	21.74	23.00	
		1	14	22.35	22.84	21.42	23.00	
		8	0	21.50	21.46	21.48	22.00	
		8	4	21.52	21.49	21.45	22.00	
		8	7	21.47	21.50	21.05	22.00	
	64QAM	15	0	21.43	21.37	21.19	22.00	
		1	0	21.45	21.40	21.30	22.00	
		1	7	21.29	21.45	20.95	22.00	
		1	14	21.30	21.31	20.98	22.00	
		8	0	20.41	20.39	20.45	21.00	
		8	4	20.55	20.55	20.45	21.00	
		8	7	20.40	20.58	20.45	21.00	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					18625/1852.5	18900/1880	19175/1907.5	
	5MHz	QPSK	1	0	23.04	23.33	23.41	24.00
1			13	23.37	23.40	23.33	24.00	
1			24	23.21	23.41	22.68	24.00	
12			0	22.39	22.36	22.40	23.00	
12			6	22.42	22.43	22.47	23.00	
12			13	22.42	22.46	21.66	23.00	
25			0	22.38	22.33	22.50	23.00	
16QAM		1	0	22.59	22.87	22.58	23.00	
		1	13	22.64	22.97	22.64	23.00	
		1	24	22.60	22.99	21.98	23.00	
		12	0	21.44	21.49	21.51	22.00	
		12	6	21.47	21.59	21.54	22.00	
		12	13	21.47	21.57	21.41	22.00	
		25	0	21.40	21.40	21.42	22.00	
64QAM		1	0	21.20	21.37	21.48	22.00	
		1	13	21.13	21.50	20.72	22.00	
		1	24	21.20	21.26	21.08	22.00	
		12	0	20.38	20.37	20.35	21.00	
		12	6	20.47	20.25	20.61	21.00	
		12	13	20.55	20.42	20.55	21.00	
		25	0	20.39	20.30	20.55	21.00	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up	





Bandwidth	Modulation	RB size	RB offset	18650/1855	18900/1880	19150/1905	Limit
				18675/1857.5	18900/1880	19125/1902.5	Tune-up Limit
10MHz	QPSK	1	0	23.35	23.31	23.21	24.00
		1	25	23.26	23.32	23.38	24.00
		1	49	23.30	23.35	23.04	24.00
		25	0	22.43	22.32	22.36	23.00
		25	13	22.41	22.37	22.41	23.00
		25	25	22.36	22.50	22.51	23.00
		50	0	22.38	22.37	22.41	23.00
	16QAM	1	0	22.40	22.76	22.43	23.00
		1	25	22.24	22.82	22.37	23.00
		1	49	22.26	22.81	22.39	23.00
		25	0	21.42	21.42	21.46	22.00
		25	13	21.46	21.45	21.49	22.00
		25	25	21.41	21.52	21.61	22.00
		50	0	21.39	21.40	21.43	22.00
	64QAM	1	0	21.19	21.45	21.39	22.00
		1	25	21.30	21.31	20.85	22.00
		1	49	21.27	21.35	21.07	22.00
		25	0	20.17	20.35	20.37	21.00
		25	13	20.52	20.39	20.56	21.00
		25	25	20.43	20.54	20.47	21.00
		50	0	20.46	20.36	20.44	21.00
15MHz	QPSK	1	0	23.30	23.33	22.90	24.00
		1	38	23.28	23.30	23.38	24.00
		1	74	22.96	23.33	23.10	24.00
		36	0	22.31	22.36	22.26	23.00
		36	18	22.42	22.42	22.51	23.00
		36	39	22.41	22.48	22.49	23.00
		75	0	22.40	22.32	22.41	23.00
	16QAM	1	0	22.23	22.83	22.43	23.00
		1	38	22.33	22.77	22.91	23.00
		1	74	22.43	22.78	22.69	23.00
		36	0	21.29	21.40	21.20	22.00
		36	18	21.44	21.45	21.49	22.00
		36	39	21.39	21.50	21.48	22.00
		75	0	21.39	21.41	21.42	22.00
	64QAM	1	0	21.27	21.23	21.44	22.00
		1	38	21.08	21.26	20.84	22.00
		1	74	21.19	21.46	20.97	22.00
		36	0	20.33	20.42	20.34	21.00
		36	18	20.29	20.49	20.44	21.00



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18700/1860	18900/1880	19100/1900	
				36	39	20.30	
75	0	20.33	20.40	20.37	21.00		
20MHz	QPSK	1	0	<b>23.32</b>	23.33	<b>23.39</b>	24.00
		1	50	23.15	23.36	22.82	24.00
		1	99	23.30	<b>23.38</b>	23.08	24.00
		50	0	22.32	22.38	22.34	23.00
		50	25	<b>22.43</b>	22.40	22.47	23.00
		50	50	22.42	<b>22.47</b>	<b>22.48</b>	23.00
		100	0	<b>22.42</b>	22.36	22.40	23.00
	16QAM	1	0	22.90	22.85	22.87	23.00
		1	50	22.86	22.92	22.68	23.00
		1	99	22.89	22.78	22.83	23.00
		50	0	21.36	21.39	21.35	22.00
		50	25	21.46	21.46	21.49	22.00
		50	50	21.47	21.50	21.46	22.00
		100	0	21.45	21.40	21.40	22.00
	64QAM	1	0	21.17	21.30	21.24	22.00
		1	50	21.15	21.29	20.68	22.00
		1	99	21.15	21.29	21.11	22.00
		50	0	20.17	20.45	20.48	21.00
		50	25	20.53	20.39	20.40	21.00
		50	50	20.33	20.35	20.61	21.00
		100	0	20.34	20.42	20.35	21.00

LTE FDD Band 2 ANT1 Level 1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	18.20	18.23	17.89	19.00
		1	2	18.05	18.14	17.86	19.00
		1	5	17.97	18.23	17.82	19.00
		3	0	18.14	18.11	18.06	19.00
		3	2	18.14	18.18	18.15	19.00
		3	3	18.22	18.30	18.14	19.00
		6	0	18.33	17.98	18.04	19.00
	16QAM	1	0	18.02	18.25	18.15	19.00
		1	2	18.03	18.19	18.03	19.00
		1	5	18.06	18.02	17.87	19.00
		3	0	18.09	17.99	18.16	19.00
		3	2	18.39	18.18	17.95	19.00
		3	3	18.38	18.32	18.09	19.00



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				18615/1851.5	18900/1880	19185/1908.5		
	64QAM	6	0	18.10	18.18	18.01	19.00	
		1	0	17.92	18.11	18.00	19.00	
		1	2	18.21	18.12	17.81	19.00	
		1	5	17.95	17.97	18.00	19.00	
		3	0	18.31	18.10	17.97	19.00	
		3	2	18.40	18.04	18.21	19.00	
		3	3	18.10	18.12	18.14	19.00	
		6	0	18.31	18.21	18.04	19.00	
3MHz	QPSK	1	0	18.05	18.17	17.96	19.00	
		1	7	18.00	17.98	18.05	19.00	
		1	14	18.15	18.11	17.99	19.00	
		8	0	18.12	18.19	17.97	19.00	
		8	4	18.07	17.97	18.06	19.00	
		8	7	18.31	18.23	18.18	19.00	
		15	0	18.33	18.21	18.05	19.00	
	16QAM	1	0	18.10	18.30	17.97	19.00	
		1	7	17.97	17.99	18.04	19.00	
		1	14	18.13	18.09	17.95	19.00	
		8	0	18.20	18.07	18.14	19.00	
		8	4	18.26	18.04	18.10	19.00	
		8	7	18.34	18.13	18.03	19.00	
		15	0	18.11	17.93	18.05	19.00	
	64QAM	1	0	18.02	18.15	17.86	19.00	
		1	7	18.06	18.23	17.86	19.00	
		1	14	18.15	17.85	17.98	19.00	
		8	0	18.11	18.07	17.93	19.00	
		8	4	18.17	18.19	18.28	19.00	
		8	7	18.15	18.20	18.14	19.00	
		15	0	18.20	18.22	18.20	19.00	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					18625/1852.5	18900/1880	19175/1907.5	
	5MHz	QPSK	1	0	17.93	18.05	18.02	19.00
1			13	18.19	18.07	17.92	19.00	
1			24	18.11	18.18	17.94	19.00	
12			0	18.00	18.08	18.09	19.00	
12			6	18.29	17.97	18.14	19.00	
12			13	18.33	18.09	18.27	19.00	
25			0	18.15	18.18	18.14	19.00	
16QAM		1	0	18.20	18.27	18.07	19.00	
		1	13	18.06	18.24	17.85	19.00	
		1	24	18.11	18.07	17.85	19.00	



		12	0	18.11	18.10	18.26	19.00
		12	6	18.43	18.14	18.18	19.00
		12	13	18.28	18.26	18.30	19.00
		25	0	18.29	17.97	18.09	19.00
	64QAM	1	0	18.07	18.06	17.79	19.00
		1	13	17.99	18.11	17.83	19.00
		1	24	18.19	17.92	17.94	19.00
		12	0	18.20	18.15	17.88	19.00
		12	6	18.39	18.11	18.25	19.00
		12	13	18.07	18.13	18.08	19.00
25	0	18.21	18.39	18.14	19.00		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	18.22	18.26	17.93	19.00
		1	25	18.13	17.97	17.90	19.00
		1	49	18.26	18.20	17.84	19.00
		25	0	17.92	18.17	17.93	19.00
		25	13	18.08	18.07	17.95	19.00
		25	25	18.28	18.30	18.15	19.00
		50	0	18.21	18.24	18.01	19.00
	16QAM	1	0	18.18	18.17	17.97	19.00
		1	25	17.87	17.98	17.94	19.00
		1	49	18.00	18.05	17.75	19.00
		25	0	18.17	18.14	17.98	19.00
		25	13	18.33	18.19	17.97	19.00
		25	25	18.40	18.24	18.07	19.00
		50	0	18.13	18.03	17.93	19.00
	64QAM	1	0	17.86	18.02	17.96	19.00
		1	25	17.95	18.14	18.00	19.00
		1	49	18.04	18.06	17.99	19.00
		25	0	18.22	18.31	17.88	19.00
		25	13	18.22	18.14	18.11	19.00
		25	25	18.04	18.13	18.08	19.00
		50	0	18.19	18.27	18.05	19.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	18.01	17.98	18.01	19.00
		1	38	18.05	17.89	17.99	19.00
		1	74	18.16	18.15	17.98	19.00
		36	0	18.17	17.97	17.98	19.00
		36	18	18.30	17.97	18.05	19.00
		36	39	18.13	18.22	18.19	19.00
		75	0	18.12	18.06	18.03	19.00



	16QAM	1	0	18.04	18.08	18.14	19.00
		1	38	17.98	18.04	18.03	19.00
		1	74	18.07	18.10	17.76	19.00
		36	0	18.30	18.26	17.97	19.00
		36	18	18.35	18.12	17.94	19.00
		36	39	18.18	18.05	18.28	19.00
		75	0	18.19	18.15	17.99	19.00
	64QAM	1	0	18.08	17.92	18.07	19.00
		1	38	18.13	18.16	18.00	19.00
		1	74	17.98	17.87	17.91	19.00
		36	0	18.26	18.13	17.88	19.00
		36	18	18.27	18.18	18.27	19.00
		36	39	17.94	18.31	18.21	19.00
		75	0	18.10	18.15	17.95	19.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	18.08	<b>18.12</b>	<b>18.00</b>	19.00
		1	50	18.07	18.02	17.94	19.00
		1	99	<b>18.12</b>	18.08	17.95	19.00
		50	0	18.06	18.11	18.06	19.00
		50	25	18.20	18.08	18.09	19.00
		50	50	<b>18.21</b>	<b>18.19</b>	<b>18.16</b>	19.00
		100	0	<b>18.18</b>	18.11	18.08	19.00
	16QAM	1	0	18.08	18.21	18.08	19.00
		1	50	17.93	18.09	17.96	19.00
		1	99	18.08	18.03	17.81	19.00
		50	0	18.15	18.14	18.11	19.00
		50	25	18.30	18.18	18.08	19.00
		50	50	18.28	18.18	18.17	19.00
		100	0	18.17	18.04	17.96	19.00
	64QAM	1	0	17.96	18.05	17.92	19.00
		1	50	18.06	18.17	17.85	19.00
		1	99	18.08	17.96	17.88	19.00
		50	0	18.20	18.17	18.02	19.00
		50	25	18.25	18.18	18.21	19.00
		50	50	18.07	18.22	18.13	19.00
		100	0	18.23	18.25	18.05	19.00



LTE FDD Band 2 ANT1 Level 2&3				Conducted Power(dBm)			Tune-up Limit	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)				
				18607/1850.7	18900/1880	19193/1909.3		
1.4MHz	QPSK	1	0	17.03	17.21	16.91	18.00	
		1	2	17.18	17.18	17.02	18.00	
		1	5	17.08	17.15	17.19	18.00	
		3	0	16.95	17.03	17.15	18.00	
		3	2	17.09	17.13	17.01	18.00	
		3	3	17.22	17.07	17.29	18.00	
		6	0	17.24	17.07	16.98	18.00	
	16QAM	1	0	17.05	16.93	16.95	18.00	
		1	2	17.25	17.07	16.73	18.00	
		1	5	17.14	17.03	17.01	18.00	
		3	0	16.94	17.04	17.24	18.00	
		3	2	17.10	17.22	17.00	18.00	
		3	3	17.12	17.38	17.28	18.00	
		6	0	17.21	16.81	17.19	18.00	
	64QAM	1	0	16.87	17.05	17.00	18.00	
		1	2	17.04	16.96	16.86	18.00	
		1	5	17.11	17.10	17.16	18.00	
		3	0	17.07	17.20	17.30	18.00	
		3	2	17.23	17.15	16.91	18.00	
		3	3	17.05	17.41	17.23	18.00	
		6	0	17.13	17.10	17.02	18.00	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
3MHz	QPSK	1	0	17.02	17.19	17.01	18.00	
		1	7	17.14	16.89	16.79	18.00	
		1	14	17.08	17.15	17.12	18.00	
		8	0	17.20	17.09	16.94	18.00	
		8	4	17.32	16.97	17.07	18.00	
		8	7	17.05	17.24	17.27	18.00	
		15	0	17.27	17.17	17.13	18.00	
	16QAM	1	0	17.12	17.15	17.12	18.00	
		1	7	17.04	16.95	16.66	18.00	
		1	14	17.19	17.05	17.06	18.00	
		8	0	16.91	17.08	17.25	18.00	
		8	4	17.26	17.09	17.12	18.00	
		8	7	17.21	17.42	17.24	18.00	
		15	0	17.26	16.84	17.20	18.00	
	64QAM	1	0	16.82	17.08	16.98	18.00	
					18615/1851.5	18900/1880	19185/1908.5	



		1	7	17.14	17.03	17.07	18.00
		1	14	17.18	17.24	17.05	18.00
		8	0	17.17	17.33	17.09	18.00
		8	4	17.13	17.04	16.80	18.00
		8	7	17.19	17.34	17.25	18.00
		15	0	17.03	17.20	17.11	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	16.97	17.14	16.88	18.00
		1	13	16.97	17.14	17.00	18.00
		1	24	17.07	16.96	16.97	18.00
		12	0	17.02	16.96	17.07	18.00
		12	6	17.29	17.09	17.07	18.00
		12	13	17.27	17.24	17.16	18.00
		25	0	17.07	16.94	17.13	18.00
	16QAM	1	0	17.11	17.08	16.99	18.00
		1	13	17.09	16.86	16.70	18.00
		1	24	17.18	17.10	16.88	18.00
		12	0	16.97	17.02	17.09	18.00
		12	6	17.03	17.09	17.09	18.00
		12	13	17.09	17.44	17.23	18.00
		25	0	17.12	16.95	17.24	18.00
	64QAM	1	0	16.91	16.90	16.90	18.00
		1	13	17.07	16.84	16.87	18.00
		1	24	17.18	17.11	17.01	18.00
		12	0	16.94	17.10	17.28	18.00
		12	6	17.27	16.95	17.05	18.00
		12	13	17.09	17.18	17.22	18.00
		25	0	17.05	17.11	16.88	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	16.97	17.20	17.16	18.00
		1	25	16.95	16.99	16.87	18.00
		1	49	16.97	17.20	17.19	18.00
		25	0	17.24	16.98	17.04	18.00
		25	13	17.13	17.25	17.07	18.00
		25	25	17.08	17.15	17.00	18.00
		50	0	17.15	17.10	17.04	18.00
	16QAM	1	0	17.19	17.07	17.06	18.00
		1	25	17.22	17.00	16.69	18.00
		1	49	17.30	17.04	16.85	18.00
		25	0	16.92	17.01	17.24	18.00
		25	13	17.32	17.04	17.08	18.00



		25	25	17.17	17.48	17.17	18.00
		50	0	17.20	17.09	17.05	18.00
	64QAM	1	0	16.98	16.82	17.11	18.00
		1	25	17.04	16.98	16.90	18.00
		1	49	17.23	17.17	17.26	18.00
		25	0	17.11	17.24	17.16	18.00
		25	13	17.03	17.10	17.00	18.00
		25	25	17.15	17.36	17.04	18.00
		50	0	17.25	17.23	16.90	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	16.93	17.10	16.95	18.00
		1	38	17.13	16.97	16.99	18.00
		1	74	17.07	17.13	16.95	18.00
		36	0	17.10	17.13	17.05	18.00
		36	18	17.32	17.23	17.07	18.00
		36	39	17.18	17.33	17.08	18.00
		75	0	17.35	17.16	17.05	18.00
	16QAM	1	0	17.20	17.03	16.99	18.00
		1	38	17.11	16.92	16.84	18.00
		1	74	17.09	16.97	16.84	18.00
		36	0	17.09	17.13	17.26	18.00
		36	18	17.22	17.20	16.99	18.00
		36	39	17.12	17.25	17.14	18.00
		75	0	17.18	17.00	17.09	18.00
	64QAM	1	0	16.90	16.90	17.18	18.00
		1	38	17.03	17.04	17.05	18.00
		1	74	17.08	17.08	17.21	18.00
		36	0	17.18	17.06	17.31	18.00
		36	18	17.18	17.01	16.97	18.00
		36	39	17.17	17.32	17.22	18.00
		75	0	17.25	17.08	17.14	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	17.08	<b>17.09</b>	17.03	18.00
		1	50	17.03	17.03	16.89	18.00
		1	99	<b>17.09</b>	17.07	<b>17.04</b>	18.00
		50	0	17.09	17.08	17.05	18.00
		50	25	<b>17.17</b>	17.10	17.07	18.00
		50	50	<b>17.17</b>	<b>17.20</b>	<b>17.14</b>	18.00
		100	0	<b>17.22</b>	17.08	17.09	18.00
	16QAM	1	0	17.11	17.00	16.97	18.00
		1	50	17.16	16.98	16.81	18.00





		1	99	17.15	17.09	16.93	18.00
		50	0	17.00	17.12	17.13	18.00
		50	25	17.18	17.17	17.10	18.00
		50	50	17.21	17.33	17.16	18.00
		100	0	17.20	16.95	17.12	18.00
	64QAM	1	0	16.95	16.97	17.05	18.00
		1	50	17.10	16.95	16.98	18.00
		1	99	17.17	17.09	17.12	18.00
		50	0	17.07	17.19	17.19	18.00
		50	25	17.13	17.01	16.92	18.00
		50	50	17.11	17.29	17.16	18.00
		100	0	17.11	17.13	17.02	18.00

LTE FDD Band 2 ANT0&1 Level 5&6				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	21.00	21.25	21.04	22.00
		1	2	21.13	20.94	21.04	22.00
		1	5	21.21	20.98	20.84	22.00
		3	0	21.18	21.11	21.04	22.00
		3	2	21.14	21.07	21.05	22.00
		3	3	21.22	21.37	21.29	22.00
		6	0	21.21	20.99	21.19	22.00
	16QAM	1	0	21.15	21.28	21.11	22.00
		1	2	21.34	21.10	21.16	22.00
		1	5	21.27	20.97	20.92	22.00
		3	0	20.83	21.16	21.02	22.00
		3	2	21.06	21.17	20.89	22.00
		3	3	21.17	21.19	21.10	22.00
		6	0	21.26	20.86	20.92	22.00
	64QAM	1	0	21.20	21.13	21.21	22.00
		1	2	20.91	21.29	20.93	22.00
		1	5	21.20	21.01	20.89	22.00
		3	0	19.84	20.36	20.12	21.00
		3	2	20.43	20.01	20.23	21.00
		3	3	20.06	20.11	20.38	21.00
		6	0	20.15	20.28	20.37	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	21.09	21.20	20.99	22.00
		1	7	20.97	20.96	20.88	22.00
		1	14	21.08	21.02	20.99	22.00



		8	0	21.10	21.07	21.15	22.00	
		8	4	21.31	21.03	21.02	22.00	
		8	7	21.23	21.09	21.18	22.00	
		15	0	21.12	20.94	21.08	22.00	
	16QAM	1	0	21.29	21.12	20.91	22.00	
		1	7	21.19	21.23	21.11	22.00	
		1	14	21.15	21.18	21.13	22.00	
		8	0	21.05	21.24	20.89	22.00	
		8	4	21.08	21.22	21.14	22.00	
		8	7	21.25	21.32	21.18	22.00	
		15	0	21.23	21.00	20.92	22.00	
	64QAM	1	0	21.17	21.30	21.20	22.00	
		1	7	20.91	21.08	21.17	22.00	
		1	14	21.14	21.04	20.91	22.00	
		8	0	19.90	20.29	20.35	21.00	
		8	4	20.19	20.23	20.29	21.00	
		8	7	20.28	20.29	20.51	21.00	
		15	0	20.11	20.29	20.29	21.00	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					18625/1852.5	18900/1880	19175/1907.5	
	5MHz	QPSK	1	0	21.12	21.13	21.14	22.00
1			13	20.90	21.14	21.10	22.00	
1			24	21.27	21.13	20.96	22.00	
12			0	21.12	21.13	21.09	22.00	
12			6	21.17	21.29	21.19	22.00	
12			13	21.10	21.17	21.23	22.00	
25			0	21.08	21.18	21.13	22.00	
16QAM		1	0	21.33	21.40	21.13	22.00	
		1	13	21.24	21.37	21.21	22.00	
		1	24	21.33	20.95	21.13	22.00	
		12	0	20.85	21.35	21.02	22.00	
		12	6	21.14	21.02	21.04	22.00	
		12	13	21.06	21.14	21.26	22.00	
		25	0	21.33	21.07	20.78	22.00	
64QAM		1	0	21.22	21.06	21.21	22.00	
		1	13	20.86	21.36	20.99	22.00	
		1	24	21.04	21.16	20.95	22.00	
		12	0	20.06	20.36	20.31	21.00	
		12	6	20.31	20.03	20.27	21.00	
		12	13	20.35	20.14	20.35	21.00	
		25	0	20.04	20.12	20.29	21.00	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				18650/1855	18900/1880	19150/1905		



10MHz	QPSK	1	0	21.01	21.18	21.10	22.00
		1	25	21.06	21.17	21.14	22.00
		1	49	21.10	21.01	21.10	22.00
		25	0	21.10	21.21	21.07	22.00
		25	13	21.20	21.13	21.04	22.00
		25	25	21.28	21.37	21.03	22.00
		50	0	21.35	21.20	21.22	22.00
	16QAM	1	0	21.15	21.29	20.90	22.00
		1	25	21.29	21.34	21.23	22.00
		1	49	21.38	21.03	21.00	22.00
		25	0	21.05	21.14	20.92	22.00
		25	13	20.96	21.04	20.93	22.00
		25	25	21.31	21.10	21.10	22.00
		50	0	21.18	20.99	20.96	22.00
	64QAM	1	0	21.06	21.17	21.06	22.00
		1	25	20.85	21.24	21.12	22.00
		1	49	21.09	20.97	20.97	22.00
		25	0	19.84	20.24	20.26	21.00
		25	13	20.22	20.00	20.33	21.00
		25	25	20.35	20.27	20.43	21.00
		50	0	20.33	20.06	20.39	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	21.23	21.16	20.97	22.00
		1	38	21.11	20.95	20.85	22.00
		1	74	21.15	21.25	20.87	22.00
		36	0	21.20	21.26	21.09	22.00
		36	18	21.25	21.24	21.18	22.00
		36	39	21.20	21.13	21.08	22.00
		75	0	21.28	20.96	21.21	22.00
	16QAM	1	0	21.18	21.38	20.95	22.00
		1	38	21.31	21.16	21.09	22.00
		1	74	21.22	21.16	21.10	22.00
		36	0	20.92	21.32	20.99	22.00
		36	18	20.99	20.99	21.13	22.00
		36	39	21.03	21.10	21.18	22.00
		75	0	21.34	21.04	21.02	22.00
	64QAM	1	0	21.29	21.32	21.05	22.00
		1	38	21.13	21.25	21.04	22.00
		1	74	21.13	21.04	20.77	22.00
		36	0	19.78	20.20	20.16	21.00
		36	18	20.16	20.17	20.24	21.00
		36	39	20.07	20.37	20.47	21.00



Bandwidth	Modulation	75	0	20.32	20.21	20.32	21.00
		RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	<b>21.13</b>	21.11	<b>21.05</b>	22.00
		1	50	21.05	21.09	20.99	22.00
		1	99	<b>21.13</b>	<b>21.12</b>	20.98	22.00
		50	0	21.10	21.12	21.04	22.00
		50	25	21.20	21.14	21.13	22.00
		50	50	<b>21.23</b>	<b>21.22</b>	<b>21.17</b>	22.00
		100	0	<b>21.20</b>	21.09	21.07	22.00
	16QAM	1	0	21.19	21.25	21.05	22.00
		1	50	21.20	21.24	21.08	22.00
		1	99	21.24	21.10	21.04	22.00
		50	0	20.95	21.25	20.97	22.00
		50	25	21.08	21.14	21.02	22.00
		50	50	21.16	21.23	21.15	22.00
		100	0	21.30	20.97	20.93	22.00
	64QAM	1	0	21.20	21.17	21.13	22.00
		1	50	20.98	21.21	21.04	22.00
		1	99	21.19	21.11	20.85	22.00
		50	0	19.92	20.27	20.25	21.00
		50	25	20.30	20.14	20.29	21.00
		50	50	20.20	20.22	20.44	21.00
		100	0	20.19	20.17	20.25	21.00

LTE FDD Band 4 Full Power ANT0&1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	24.21	24.15	24.03	24.50
		1	2	24.26	24.24	24.14	24.50
		1	5	24.21	24.19	24.07	24.50
		3	0	24.22	24.13	24.02	24.50
		3	2	24.24	24.19	24.11	24.50
		3	3	24.23	24.15	24.08	24.50
		6	0	23.26	23.31	23.14	23.50
	16QAM	1	0	23.37	23.61	23.15	24.00
		1	2	23.47	23.66	23.22	24.00
		1	5	23.42	23.59	23.18	24.00
		3	0	23.29	23.45	23.27	24.00
		3	2	23.37	23.46	23.33	24.00
		3	3	23.29	23.42	23.29	24.00
		6	0	22.44	22.20	22.34	23.00



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				19965/1711.5	20175/1732.5	20385/1753.5		
	64QAM	1	0	22.22	22.02	21.90	23.00	
		1	2	22.27	22.34	22.10	23.00	
		1	5	22.06	22.07	21.98	23.00	
		3	0	22.07	22.26	22.04	23.00	
		3	2	22.21	22.11	22.25	23.00	
		3	3	22.27	22.13	21.94	23.00	
		6	0	21.21	21.26	20.99	22.00	
3MHz	QPSK	1	0	24.25	24.22	24.13	24.50	
		1	7	24.34	24.29	24.16	24.50	
		1	14	24.23	24.27	24.14	24.50	
		8	0	23.34	23.29	23.15	23.50	
		8	4	23.32	23.37	23.22	23.50	
		8	7	23.29	23.37	23.19	23.50	
		15	0	23.32	23.26	23.19	23.50	
	16QAM	1	0	23.24	23.61	23.23	24.00	
		1	7	23.31	23.71	23.27	24.00	
		1	14	23.29	23.65	23.26	24.00	
		8	0	22.45	22.35	22.25	23.00	
		8	4	22.48	22.45	22.30	23.00	
		8	7	22.43	22.43	22.26	23.00	
		15	0	22.34	22.37	22.19	23.00	
	64QAM	1	0	22.26	22.11	22.24	23.00	
		1	7	22.32	22.25	22.12	23.00	
		1	14	22.26	22.23	22.02	23.00	
		8	0	21.30	21.18	21.15	22.00	
		8	4	21.17	21.35	21.21	22.00	
		8	7	21.30	21.51	21.32	22.00	
		15	0	21.26	21.39	21.24	22.00	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					19975/1712.5	20175/1732.5	20375/1752.5	
	5MHz	QPSK	1	0	24.18	24.20	24.14	24.50
			1	13	24.28	24.25	24.13	24.50
			1	24	24.22	24.30	24.13	24.50
			12	0	23.27	23.23	23.16	23.50
			12	6	23.33	23.35	23.27	23.50
12			13	23.28	23.34	23.25	23.50	
25			0	23.30	23.28	23.20	23.50	
16QAM		1	0	23.47	23.73	23.43	24.00	
		1	13	23.50	23.88	23.39	24.00	
		1	24	23.53	23.84	23.34	24.00	
		12	0	22.35	22.38	22.26	23.00	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				20000/1715	20175/1732.5	20350/1750		
	64QAM	12	6	22.41	22.52	22.32	23.00	
		12	13	22.38	22.45	22.27	23.00	
		25	0	22.35	22.35	22.15	23.00	
		1	0	22.32	22.24	22.20	23.00	
		1	13	22.26	22.35	22.24	23.00	
		1	24	22.08	22.33	22.16	23.00	
		12	0	21.30	21.38	21.04	22.00	
		12	6	21.20	21.38	21.35	22.00	
		12	13	21.27	21.48	21.11	22.00	
		25	0	21.28	21.14	21.15	22.00	
10MHz	QPSK	1	0	24.24	24.16	24.11	24.50	
		1	25	24.16	24.20	24.10	24.50	
		1	49	24.30	24.20	24.09	24.50	
		25	0	23.30	23.15	23.11	23.50	
		25	13	23.34	23.26	23.15	23.50	
		25	25	23.29	23.25	23.24	23.50	
		50	0	23.31	23.22	23.12	23.50	
	16QAM	1	0	23.35	23.64	23.16	24.00	
		1	25	23.17	23.60	23.12	24.00	
		1	49	23.30	23.63	23.12	24.00	
		25	0	22.32	22.23	22.19	23.00	
		25	13	22.33	22.31	22.26	23.00	
		25	25	22.33	22.29	22.28	23.00	
		50	0	22.28	22.24	22.15	23.00	
	64QAM	1	0	22.18	22.09	22.03	23.00	
		1	25	22.49	22.31	22.15	23.00	
		1	49	22.26	22.33	22.24	23.00	
		25	0	21.45	21.43	21.16	22.00	
		25	13	21.46	21.52	21.33	22.00	
		25	25	21.42	21.23	21.12	22.00	
		50	0	21.37	21.30	21.07	22.00	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					20025/1717.5	20175/1732.5	20325/1747.5	
	15MHz	QPSK	1	0	24.22	24.31	24.21	24.50
1			38	24.13	24.11	24.03	24.50	
1			74	24.18	24.08	23.98	24.50	
36			0	23.23	23.27	23.17	23.50	
36			18	23.30	23.20	23.13	23.50	
36			39	23.24	23.20	23.17	23.50	
75			0	23.27	23.17	23.06	23.50	
16QAM		1	0	23.34	23.70	23.63	24.00	



		1	38	23.18	23.56	23.59	24.00
		1	74	23.26	23.55	23.57	24.00
		36	0	22.21	22.31	22.17	23.00
		36	18	22.28	22.28	22.12	23.00
		36	39	22.26	22.28	22.12	23.00
		75	0	22.28	22.22	22.11	23.00
	64QAM	1	0	22.16	22.16	22.02	23.00
		1	38	22.49	22.41	22.14	23.00
		1	74	22.16	22.16	22.16	23.00
		36	0	21.21	21.42	21.30	22.00
		36	18	21.24	21.51	21.23	22.00
		36	39	21.28	21.22	21.18	22.00
		75	0	21.22	21.23	21.23	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	<b>24.38</b>	<b>24.36</b>	<b>24.15</b>	24.50
		1	50	24.11	24.16	23.95	24.50
		1	99	24.19	24.20	23.96	24.50
		50	0	<b>23.35</b>	<b>23.27</b>	23.15	23.50
		50	25	23.32	23.19	<b>23.19</b>	23.50
		50	50	23.22	23.20	23.10	23.50
		100	0	<b>23.33</b>	23.18	23.17	23.50
	16QAM	1	0	24.00	23.83	23.62	24.00
		1	50	23.67	23.60	23.41	24.00
		1	99	23.74	23.66	23.46	24.00
		50	0	22.30	22.31	22.15	23.00
		50	25	22.34	22.23	22.14	23.00
		50	50	22.26	22.24	22.09	23.00
		100	0	22.38	22.20	22.22	23.00
	64QAM	1	0	22.10	22.35	22.26	23.00
		1	50	22.29	22.15	22.26	23.00
		1	99	22.32	22.28	22.05	23.00
		50	0	21.48	21.22	21.06	22.00
		50	25	21.28	21.40	21.22	22.00
		50	50	21.39	21.26	21.26	22.00
		100	0	21.40	21.21	21.19	22.00



LTE FDD Band 4 ANT1 Level 1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	16.93	17.26	16.89	18.00
		1	2	16.94	17.01	16.81	18.00
		1	5	17.06	17.09	16.79	18.00
		3	0	17.16	17.16	16.93	18.00
		3	2	17.23	16.98	16.86	18.00
		3	3	17.16	17.12	17.05	18.00
		6	0	17.11	16.94	17.10	18.00
	16QAM	1	0	17.29	17.46	16.84	18.00
		1	2	16.67	16.90	16.94	18.00
		1	5	16.91	17.27	16.73	18.00
		3	0	16.87	17.30	17.09	18.00
		3	2	17.07	17.26	16.78	18.00
		3	3	17.04	17.07	16.96	18.00
		6	0	17.03	17.08	17.06	18.00
	64QAM	1	0	16.89	17.09	16.94	18.00
		1	2	16.89	17.01	16.88	18.00
		1	5	16.80	17.02	16.84	18.00
		3	0	17.05	17.18	17.13	18.00
		3	2	16.97	17.09	17.02	18.00
		3	3	17.31	16.87	16.74	18.00
		6	0	16.93	17.22	16.94	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	16.95	17.26	16.93	18.00
		1	7	16.94	17.02	16.84	18.00
		1	14	16.93	16.97	16.89	18.00
		8	0	17.00	16.96	16.98	18.00
		8	4	17.19	17.14	16.85	18.00
		8	7	17.20	17.04	16.86	18.00
		15	0	17.18	17.15	16.91	18.00
	16QAM	1	0	17.29	17.32	16.96	18.00
		1	7	16.87	16.90	16.88	18.00
		1	14	17.03	17.01	16.73	18.00
		8	0	17.01	17.32	17.02	18.00
		8	4	16.95	17.08	16.87	18.00
		8	7	17.23	17.00	16.83	18.00
		15	0	17.17	17.04	17.10	18.00
	64QAM	1	0	17.02	17.10	17.15	18.00





Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				19975/1712.5	20175/1732.5	20375/1752.5		
		1	7	16.66	16.95	16.95	18.00	
		1	14	16.96	16.94	16.90	18.00	
		8	0	17.07	17.10	17.10	18.00	
		8	4	16.96	17.07	17.01	18.00	
		8	7	17.38	16.89	17.02	18.00	
		15	0	16.89	17.29	16.80	18.00	
5MHz	QPSK	1	0	17.10	17.18	17.15	18.00	
		1	13	16.80	16.97	16.96	18.00	
		1	24	17.13	17.05	16.76	18.00	
		12	0	17.08	17.15	16.96	18.00	
		12	6	17.06	17.15	16.90	18.00	
		12	13	17.23	17.22	16.95	18.00	
		25	0	17.09	16.97	17.13	18.00	
	16QAM	1	0	17.30	17.24	16.88	18.00	
		1	13	16.91	16.95	16.84	18.00	
		1	24	17.07	17.01	16.61	18.00	
		12	0	16.99	17.26	17.25	18.00	
		12	6	16.97	17.29	16.95	18.00	
		12	13	17.14	17.07	16.92	18.00	
		25	0	17.29	17.10	17.16	18.00	
	64QAM	1	0	17.03	17.24	16.92	18.00	
		1	13	16.77	16.95	16.86	18.00	
		1	24	17.06	17.14	16.85	18.00	
		12	0	17.02	17.35	16.99	18.00	
		12	6	16.99	16.98	17.07	18.00	
		12	13	17.14	17.05	16.91	18.00	
		25	0	17.00	17.09	17.04	18.00	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					20000/1715	20175/1732.5	20350/1750	
	10MHz	QPSK	1	0	16.96	17.24	16.98	18.00
1			25	16.86	17.09	16.78	18.00	
1			49	17.03	16.97	16.83	18.00	
25			0	17.16	17.21	16.92	18.00	
25			13	17.19	17.02	17.10	18.00	
25			25	17.04	17.21	16.88	18.00	
50			0	17.18	17.14	16.87	18.00	
16QAM		1	0	17.23	17.26	16.82	18.00	
		1	25	16.68	16.90	16.80	18.00	
		1	49	16.89	17.24	16.71	18.00	
		25	0	16.92	17.24	17.09	18.00	
		25	13	17.04	17.29	17.05	18.00	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20025/1717.5	20175/1732.5	20325/1747.5	
	64QAM	25	25	17.28	17.03	16.98	18.00
		50	0	17.00	17.07	17.11	18.00
		1	0	16.90	17.24	16.99	18.00
		1	25	16.77	16.82	16.87	18.00
		1	49	17.01	17.16	17.00	18.00
		25	0	17.24	17.28	16.91	18.00
		25	13	17.10	17.15	17.20	18.00
		25	25	17.17	16.85	16.98	18.00
		50	0	16.96	17.19	17.03	18.00
15MHz	QPSK	1	0	16.97	17.15	17.04	18.00
		1	38	16.85	17.05	16.95	18.00
		1	74	17.10	17.06	17.01	18.00
		36	0	17.20	16.99	17.18	18.00
		36	18	17.10	17.05	17.03	18.00
		36	39	16.98	17.05	17.09	18.00
		75	0	17.06	16.90	17.07	18.00
	16QAM	1	0	17.10	17.37	17.06	18.00
		1	38	16.67	16.99	16.90	18.00
		1	74	17.07	17.07	16.83	18.00
		36	0	16.95	17.24	16.96	18.00
		36	18	16.94	17.06	16.85	18.00
		36	39	17.30	17.00	16.86	18.00
		75	0	17.07	17.11	16.98	18.00
	64QAM	1	0	16.94	17.08	16.97	18.00
		1	38	16.89	16.80	16.80	18.00
		1	74	17.05	16.90	16.82	18.00
		36	0	17.23	17.34	16.93	18.00
		36	18	17.04	17.28	17.16	18.00
		36	39	17.31	17.13	17.02	18.00
		75	0	17.15	17.12	16.82	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	<b>17.06</b>	<b>17.21</b>	<b>17.03</b>	18.00
		1	50	16.89	16.97	16.85	18.00
		1	99	17.02	17.04	16.90	18.00
		50	0	17.05	<b>17.10</b>	<b>17.04</b>	18.00
		50	25	<b>17.11</b>	17.04	16.99	18.00
		50	50	17.09	17.09	17.01	18.00
		100	0	<b>17.17</b>	17.03	17.00	18.00
	16QAM	1	0	17.16	17.34	16.93	18.00
		1	50	16.79	16.98	16.87	18.00



		1	99	17.03	17.12	16.76	18.00
		50	0	17.00	17.18	17.11	18.00
		50	25	17.07	17.16	16.91	18.00
		50	50	17.16	17.04	16.88	18.00
		100	0	17.15	17.17	17.12	18.00
	64QAM	1	0	16.96	17.21	17.00	18.00
		1	50	16.78	16.95	16.93	18.00
		1	99	16.92	17.03	16.91	18.00
		50	0	17.10	17.24	16.98	18.00
		50	25	16.99	17.13	17.12	18.00
		50	50	17.24	17.00	16.87	18.00
		100	0	17.04	17.17	16.92	18.00

LTE FDD Band 4 ANT1 Level 2&3				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	15.62	15.62	15.50	16.50
		1	2	15.40	15.59	15.35	16.50
		1	5	15.53	15.61	15.26	16.50
		3	0	15.56	15.78	15.73	16.50
		3	2	15.58	15.53	15.61	16.50
		3	3	15.60	15.51	15.44	16.50
		6	0	15.53	15.54	15.46	16.50
	16QAM	1	0	15.65	15.79	15.31	16.50
		1	2	15.37	15.35	15.31	16.50
		1	5	15.47	15.68	15.51	16.50
		3	0	15.75	15.61	15.69	16.50
		3	2	15.43	15.66	15.58	16.50
		3	3	15.50	15.61	15.67	16.50
		6	0	15.51	15.27	15.68	16.50
	64QAM	1	0	15.41	15.51	15.24	16.50
		1	2	15.28	15.45	15.12	16.50
		1	5	15.67	15.31	15.33	16.50
		3	0	15.73	15.83	15.72	16.50
		3	2	15.63	15.80	15.28	16.50
		3	3	15.55	15.82	15.35	16.50
		6	0	15.72	15.52	15.52	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	15.50	15.45	15.50	16.50
		1	7	15.39	15.43	15.17	16.50
		1	14	15.71	15.67	15.43	16.50



		8	0	15.58	15.59	15.60	16.50
		8	4	15.62	15.69	15.44	16.50
		8	7	15.62	15.62	15.53	16.50
		15	0	15.58	15.66	15.57	16.50
	16QAM	1	0	15.64	15.64	15.43	16.50
		1	7	15.26	15.51	15.15	16.50
		1	14	15.54	15.78	15.38	16.50
		8	0	15.54	15.65	15.71	16.50
		8	4	15.46	15.65	15.32	16.50
		8	7	15.52	15.66	15.50	16.50
	64QAM	15	0	15.55	15.54	15.54	16.50
		1	0	15.38	15.50	15.46	16.50
		1	7	15.41	15.62	15.22	16.50
		1	14	15.66	15.55	15.32	16.50
8		0	15.72	15.76	15.63	16.50	
8		4	15.57	15.87	15.44	16.50	
5MHz	QPSK	8	7	15.77	15.71	15.52	16.50
		15	0	15.81	15.52	15.49	16.50
		1	0	15.62	15.69	15.57	16.50
		1	13	15.57	15.57	15.33	16.50
		1	24	15.55	15.69	15.53	16.50
		12	0	15.80	15.59	15.69	16.50
		12	6	15.54	15.64	15.44	16.50
	16QAM	12	13	15.68	15.52	15.61	16.50
		25	0	15.58	15.66	15.51	16.50
		1	0	15.78	15.66	15.49	16.50
		1	13	15.44	15.36	15.15	16.50
		1	24	15.46	15.71	15.47	16.50
		12	0	15.67	15.81	15.55	16.50
		12	6	15.66	15.49	15.39	16.50
64QAM	12	13	15.57	15.74	15.47	16.50	
	25	0	15.66	15.38	15.71	16.50	
	1	0	15.65	15.63	15.35	16.50	
	1	13	15.15	15.63	15.32	16.50	
	1	24	15.61	15.29	15.25	16.50	
	12	0	15.67	15.78	15.56	16.50	
	12	6	15.69	15.76	15.33	16.50	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19975/1712.5	20175/1732.5	20375/1752.5	
				20000/1715	20175/1732.5	20350/1750	



10MHz	QPSK	1	0	15.65	15.52	15.42	16.50
		1	25	15.42	15.36	15.43	16.50
		1	49	15.42	15.52	15.34	16.50
		25	0	15.69	15.61	15.70	16.50
		25	13	15.64	15.52	15.58	16.50
		25	25	15.57	15.48	15.42	16.50
		50	0	15.51	15.44	15.60	16.50
	16QAM	1	0	15.75	15.69	15.56	16.50
		1	25	15.53	15.59	15.31	16.50
		1	49	15.63	15.81	15.59	16.50
		25	0	15.57	15.57	15.46	16.50
		25	13	15.64	15.59	15.52	16.50
		25	25	15.42	15.55	15.64	16.50
		50	0	15.58	15.52	15.55	16.50
	64QAM	1	0	15.59	15.58	15.54	16.50
		1	25	15.43	15.55	15.19	16.50
		1	49	15.62	15.35	15.49	16.50
		25	0	15.74	15.68	15.76	16.50
		25	13	15.66	15.63	15.30	16.50
		25	25	15.72	15.80	15.43	16.50
		50	0	15.71	15.49	15.54	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	15.66	15.68	15.44	16.50
		1	38	15.48	15.54	15.25	16.50
		1	74	15.70	15.63	15.44	16.50
		36	0	15.74	15.50	15.63	16.50
		36	18	15.70	15.73	15.40	16.50
		36	39	15.49	15.45	15.52	16.50
		75	0	15.61	15.52	15.58	16.50
	16QAM	1	0	15.63	15.77	15.51	16.50
		1	38	15.42	15.59	15.24	16.50
		1	74	15.41	15.57	15.59	16.50
		36	0	15.64	15.74	15.46	16.50
		36	18	15.54	15.60	15.59	16.50
		36	39	15.68	15.84	15.57	16.50
		75	0	15.69	15.50	15.70	16.50
	64QAM	1	0	15.59	15.77	15.35	16.50
		1	38	15.39	15.59	15.22	16.50
		1	74	15.58	15.53	15.22	16.50
		36	0	15.81	15.79	15.72	16.50
		36	18	15.64	15.76	15.57	16.50
		36	39	15.74	15.82	15.39	16.50



Bandwidth	Modulation	75	0	15.74	15.55	15.51	16.50
		RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	<b>15.65</b>	<b>15.60</b>	<b>15.50</b>	16.50
		1	50	15.42	15.48	15.28	16.50
		1	99	15.57	15.56	15.38	16.50
		50	0	15.65	<b>15.65</b>	<b>15.61</b>	16.50
		50	25	<b>15.68</b>	15.59	15.53	16.50
		50	50	15.60	15.59	15.53	16.50
		100	0	<b>15.66</b>	15.56	15.49	16.50
	16QAM	1	0	15.67	15.69	15.41	16.50
		1	50	15.38	15.47	15.29	16.50
		1	99	15.51	15.70	15.53	16.50
		50	0	15.65	15.66	15.58	16.50
		50	25	15.55	15.57	15.45	16.50
		50	50	15.55	15.69	15.59	16.50
		100	0	15.65	15.42	15.56	16.50
	64QAM	1	0	15.51	15.64	15.39	16.50
		1	50	15.30	15.55	15.17	16.50
		1	99	15.61	15.44	15.36	16.50
		50	0	15.76	15.68	15.69	16.50
		50	25	15.69	15.74	15.42	16.50
		50	50	15.66	15.72	15.49	16.50
		100	0	15.77	15.47	15.60	16.50

LTE FDD Band 4 ANT0&1 Level 4				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	21.78	21.63	21.60	22.00
		1	2	21.72	21.90	21.57	22.00
		1	5	21.77	21.81	21.84	22.00
		3	0	21.91	21.60	21.54	22.00
		3	2	21.88	21.98	21.89	22.00
		3	3	21.77	21.75	21.74	22.00
		6	0	21.75	21.47	21.38	22.00
	16QAM	1	0	21.99	21.58	21.79	22.00
		1	2	21.74	21.89	21.65	22.00
		1	5	21.68	21.77	21.51	22.00
		3	0	21.75	21.98	21.50	22.00
		3	2	21.94	21.77	21.74	22.00
		3	3	21.68	21.60	21.47	22.00
		6	0	21.95	21.42	21.56	22.00



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				19965/1711.5	20175/1732.5	20385/1753.5		
	64QAM	1	0	21.79	21.55	21.65	22.00	
		1	2	21.83	21.68	21.63	22.00	
		1	5	21.83	21.77	21.64	22.00	
		3	0	21.58	21.67	21.68	22.00	
		3	2	21.87	21.94	21.75	22.00	
		3	3	21.81	21.62	21.55	22.00	
		6	0	21.73	21.69	21.53	22.00	
3MHz	QPSK	1	0	21.90	21.76	21.85	22.00	
		1	7	21.92	21.81	21.59	22.00	
		1	14	21.65	21.78	21.78	22.00	
		8	0	21.70	21.86	21.77	22.00	
		8	4	21.83	21.94	21.67	22.00	
		8	7	21.59	21.83	21.67	22.00	
		15	0	21.69	21.57	21.63	22.00	
	16QAM	1	0	21.83	21.69	21.75	22.00	
		1	7	21.67	21.63	21.73	22.00	
		1	14	21.92	21.74	21.65	22.00	
		8	0	21.89	21.90	21.56	22.00	
		8	4	21.95	21.77	21.84	22.00	
		8	7	21.68	21.73	21.50	22.00	
		15	0	21.79	21.56	21.59	22.00	
	64QAM	1	0	21.98	21.61	21.83	22.00	
		1	7	21.90	21.86	21.60	22.00	
		1	14	21.92	21.64	21.52	22.00	
		8	0	21.53	21.54	21.70	22.00	
		8	4	21.81	21.80	21.91	22.00	
		8	7	21.68	21.89	21.63	22.00	
		15	0	21.67	21.53	21.56	22.00	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					19975/1712.5	20175/1732.5	20375/1752.5	
	5MHz	QPSK	1	0	21.65	21.82	21.73	22.00
1			13	21.90	21.89	21.63	22.00	
1			24	21.67	21.66	21.64	22.00	
12			0	21.83	21.90	21.78	22.00	
12			6	21.88	21.75	21.86	22.00	
12			13	21.78	21.92	21.63	22.00	
25			0	21.76	21.73	21.39	22.00	
16QAM		1	0	21.76	21.64	21.78	22.00	
		1	13	21.77	21.82	21.57	22.00	
		1	24	21.67	21.72	21.63	22.00	
		12	0	21.93	21.84	21.60	22.00	



	64QAM	12	6	21.98	21.82	21.65	22.00
		12	13	21.59	21.56	21.69	22.00
		25	0	21.79	21.38	21.54	22.00
		1	0	21.77	21.77	21.72	22.00
		1	13	21.69	21.92	21.62	22.00
		1	24	21.73	21.60	21.69	22.00
		12	0	21.68	21.81	21.72	22.00
		12	6	21.93	21.84	21.77	22.00
		12	13	21.72	21.72	21.78	22.00
		25	0	21.71	21.78	21.64	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	21.71	21.86	21.71	22.00
		1	25	21.73	21.69	21.67	22.00
		1	49	21.69	21.92	21.74	22.00
		25	0	21.67	21.69	21.71	22.00
		25	13	21.86	21.94	21.87	22.00
		25	25	21.61	21.79	21.69	22.00
		50	0	21.70	21.61	21.38	22.00
	16QAM	1	0	21.99	21.80	21.62	22.00
		1	25	21.77	21.64	21.47	22.00
		1	49	21.74	21.96	21.54	22.00
		25	0	21.88	21.80	21.70	22.00
		25	13	21.94	21.96	21.69	22.00
		25	25	21.67	21.79	21.49	22.00
		50	0	21.92	21.52	21.76	22.00
	64QAM	1	0	21.89	21.63	21.65	22.00
		1	25	21.63	21.77	21.54	22.00
		1	49	21.88	21.89	21.44	22.00
		25	0	21.57	21.55	21.76	22.00
		25	13	21.76	21.75	21.89	22.00
		25	25	21.76	21.88	21.56	22.00
		50	0	21.59	21.75	21.66	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	21.91	21.73	21.80	22.00
		1	38	21.63	21.76	21.71	22.00
		1	74	21.77	21.69	21.78	22.00
		36	0	21.68	21.83	21.62	22.00
		36	18	21.89	21.70	21.88	22.00
		36	39	21.82	21.80	21.67	22.00
		75	0	21.74	21.54	21.64	22.00
	16QAM	1	0	21.75	21.77	21.58	22.00





		1	38	21.60	21.79	21.44	22.00
		1	74	21.72	21.98	21.64	22.00
		36	0	21.81	21.84	21.62	22.00
		36	18	21.95	21.85	21.69	22.00
		36	39	21.78	21.54	21.46	22.00
		75	0	21.82	21.59	21.70	22.00
	64QAM	1	0	21.90	21.67	21.59	22.00
		1	38	21.72	21.80	21.68	22.00
		1	74	21.76	21.68	21.53	22.00
		36	0	21.73	21.77	21.79	22.00
		36	18	21.87	21.99	21.73	22.00
		36	39	21.57	21.72	21.66	22.00
		75	0	21.77	21.66	21.44	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	21.77	21.78	<b>21.73</b>	22.00
		1	50	<b>21.78</b>	21.76	21.69	22.00
		1	99	21.75	<b>21.81</b>	21.69	22.00
		50	0	21.81	21.75	21.67	22.00
		50	25	<b>21.85</b>	<b>21.85</b>	<b>21.74</b>	22.00
		50	50	21.71	21.77	21.64	22.00
		100	0	<b>21.80</b>	21.61	21.52	22.00
	16QAM	1	0	21.87	21.68	21.64	22.00
		1	50	21.68	21.76	21.58	22.00
		1	99	21.79	21.86	21.66	22.00
		50	0	21.90	21.89	21.65	22.00
		50	25	21.97	21.90	21.78	22.00
		50	50	21.74	21.65	21.60	22.00
		100	0	21.89	21.47	21.64	22.00
	64QAM	1	0	21.88	21.63	21.73	22.00
		1	50	21.75	21.79	21.60	22.00
		1	99	21.81	21.74	21.59	22.00
		50	0	21.66	21.69	21.71	22.00
		50	25	21.86	21.86	21.87	22.00
		50	50	21.68	21.74	21.65	22.00
		100	0	21.69	21.64	21.53	22.00



LTE FDD Band 4 ANT0&1 Level 5&6				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	20.94	21.22	20.99	21.50
		1	2	20.74	20.92	20.86	21.50
		1	5	21.11	20.99	20.83	21.50
		3	0	21.15	21.21	21.03	21.50
		3	2	21.06	20.90	21.01	21.50
		3	3	21.04	21.09	20.91	21.50
		6	0	21.06	21.06	21.02	21.50
	16QAM	1	0	21.22	21.27	21.05	21.50
		1	2	20.83	21.20	21.12	21.50
		1	5	20.95	21.15	21.10	21.50
		3	0	21.17	21.18	21.08	21.50
		3	2	21.09	21.14	21.13	21.50
		3	3	21.14	20.94	20.87	21.50
		6	0	21.27	20.91	20.94	21.50
	64QAM	1	0	21.03	21.22	21.24	21.50
		1	2	20.86	20.69	20.70	21.50
		1	5	20.96	20.82	20.84	21.50
		3	0	20.98	21.36	21.04	21.50
		3	2	20.85	21.07	21.08	21.50
		3	3	20.99	21.09	20.88	21.50
		6	0	21.05	21.08	20.95	21.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	20.92	21.17	21.13	21.50
		1	7	20.91	20.94	20.98	21.50
		1	14	20.85	21.22	20.92	21.50
		8	0	21.15	21.03	21.00	21.50
		8	4	21.09	21.12	21.11	21.50
		8	7	21.07	21.14	21.09	21.50
		15	0	21.02	21.18	21.11	21.50
	16QAM	1	0	21.01	21.23	21.28	21.50
		1	7	20.91	20.94	20.97	21.50
		1	14	21.09	21.27	20.88	21.50
		8	0	21.10	21.24	21.02	21.50
		8	4	21.16	21.11	21.00	21.50
		8	7	20.90	20.92	20.99	21.50
		15	0	21.13	21.21	21.05	21.50
	64QAM	1	0	21.03	21.38	21.08	21.50



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				19975/1712.5	20175/1732.5	20375/1752.5		
		1	7	20.78	20.92	20.70	21.50	
		1	14	20.99	20.97	20.85	21.50	
		8	0	20.84	21.25	20.99	21.50	
		8	4	20.96	21.03	21.04	21.50	
		8	7	21.05	21.10	20.93	21.50	
		15	0	21.12	21.01	21.11	21.50	
5MHz	QPSK	1	0	21.07	21.18	20.90	21.50	
		1	13	21.03	20.91	20.77	21.50	
		1	24	21.12	20.92	20.81	21.50	
		12	0	21.06	20.93	20.93	21.50	
		12	6	21.14	21.14	21.05	21.50	
		12	13	21.13	21.12	21.01	21.50	
		25	0	21.24	20.99	21.11	21.50	
	16QAM	1	0	21.03	21.30	21.24	21.50	
		1	13	20.95	20.95	20.84	21.50	
		1	24	21.15	21.19	20.97	21.50	
		12	0	21.02	21.36	21.12	21.50	
		12	6	21.16	21.27	21.18	21.50	
		12	13	21.05	20.96	20.93	21.50	
		25	0	21.11	21.17	20.92	21.50	
	64QAM	1	0	21.06	21.20	21.03	21.50	
		1	13	20.74	20.88	20.86	21.50	
		1	24	20.96	20.81	20.90	21.50	
		12	0	20.95	21.11	20.93	21.50	
		12	6	20.99	21.19	21.02	21.50	
		12	13	20.99	21.07	20.99	21.50	
		25	0	21.08	20.90	20.90	21.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					20000/1715	20175/1732.5	20350/1750	
	10MHz	QPSK	1	0	21.19	21.12	21.08	21.50
1			25	20.95	20.87	20.70	21.50	
1			49	20.92	21.12	21.00	21.50	
25			0	20.89	21.00	21.10	21.50	
25			13	21.21	20.96	20.84	21.50	
25			25	21.06	21.06	21.02	21.50	
50			0	21.21	20.99	20.87	21.50	
16QAM		1	0	20.98	21.34	21.25	21.50	
		1	25	20.83	20.94	21.09	21.50	
		1	49	20.93	21.36	20.84	21.50	
		25	0	21.23	21.12	21.10	21.50	
		25	13	20.97	21.26	20.98	21.50	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				20025/1717.5	20175/1732.5	20325/1747.5		
	64QAM	25	25	20.95	21.06	20.99	21.50	
		50	0	21.09	21.10	21.04	21.50	
		1	0	21.07	21.36	21.22	21.50	
		1	25	20.88	20.96	20.69	21.50	
		1	49	20.84	21.05	20.82	21.50	
		25	0	21.04	21.16	20.96	21.50	
		25	13	20.93	21.19	21.08	21.50	
		25	25	21.16	20.94	20.81	21.50	
		50	0	21.19	20.89	21.15	21.50	
15MHz	QPSK	1	0	20.94	21.16	20.90	21.50	
		1	38	20.98	21.06	20.71	21.50	
		1	74	20.89	20.95	20.92	21.50	
		36	0	21.16	21.07	20.92	21.50	
		36	18	21.20	21.19	20.93	21.50	
		36	39	21.13	20.98	21.17	21.50	
		75	0	21.24	21.04	21.13	21.50	
	16QAM	1	0	21.00	21.13	21.17	21.50	
		1	38	20.96	21.17	21.00	21.50	
		1	74	21.10	21.16	20.80	21.50	
		36	0	21.20	21.36	21.10	21.50	
		36	18	21.02	21.13	21.00	21.50	
		36	39	20.91	21.02	20.85	21.50	
		75	0	21.16	21.10	21.02	21.50	
	64QAM	1	0	20.99	21.39	21.10	21.50	
		1	38	20.81	20.91	20.81	21.50	
		1	74	20.82	20.97	20.67	21.50	
		36	0	20.97	21.26	20.82	21.50	
		36	18	21.08	21.19	20.85	21.50	
		36	39	21.12	21.03	21.01	21.50	
		75	0	21.03	20.96	20.88	21.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					20050/1720	20175/1732.5	20300/1745	
	20MHz	QPSK	1	0	<b>21.04</b>	<b>21.18</b>	<b>21.01</b>	21.50
1			50	20.88	20.92	20.83	21.50	
1			99	21.00	21.07	20.89	21.50	
50			0	21.02	21.08	<b>21.04</b>	21.50	
50			25	<b>21.09</b>	21.05	20.98	21.50	
50			50	21.05	<b>21.09</b>	21.03	21.50	
100			0	<b>21.09</b>	21.05	21.00	21.50	
16QAM		1	0	21.08	21.27	21.14	21.50	
		1	50	20.97	21.07	20.98	21.50	



		1	99	21.07	21.21	20.95	21.50
		50	0	21.10	21.23	21.12	21.50
		50	25	21.04	21.16	21.05	21.50
		50	50	20.99	20.98	20.92	21.50
		100	0	21.18	21.06	20.96	21.50
	64QAM	1	0	20.95	21.31	21.13	21.50
		1	50	20.74	20.83	20.75	21.50
		1	99	20.93	20.93	20.80	21.50
		50	0	20.90	21.23	20.92	21.50
		50	25	21.00	21.14	20.95	21.50
		50	50	21.02	21.02	20.90	21.50
		100	0	21.16	20.94	21.01	21.50

LTE FDD Band 5 Full Power ANT0&1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20407/824.7	20525/836.5	20643/848.3	
1.4MHz	QPSK	1	0	23.88	23.81	23.74	24.80
		1	2	23.90	23.92	23.78	24.80
		1	5	23.79	23.88	23.71	24.80
		3	0	23.88	23.82	23.77	24.80
		3	2	23.89	23.91	23.83	24.80
		3	3	23.81	23.82	23.73	24.80
		6	0	22.93	22.90	22.85	23.80
	16QAM	1	0	23.05	23.28	22.85	23.80
		1	2	23.09	23.31	22.90	23.80
		1	5	23.00	23.28	22.82	23.80
		3	0	22.97	23.08	22.97	23.80
		3	2	23.02	23.17	23.05	23.80
		3	3	22.97	23.09	23.00	23.80
		6	0	22.09	21.83	21.97	22.80
	64QAM	1	0	21.99	21.94	21.82	22.80
		1	2	21.91	21.99	21.87	22.80
		1	5	21.74	21.81	21.79	22.80
		3	0	21.82	21.74	21.83	22.80
		3	2	21.74	21.87	21.94	22.80
		3	3	21.75	21.86	21.62	22.80
		6	0	20.81	20.92	20.76	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	24.02	23.92	23.89	24.80
		1	7	23.96	23.96	23.94	24.80
		1	14	23.83	23.93	23.79	24.80



		8	0	23.01	23.00	22.94	23.80	
		8	4	23.03	23.03	22.92	23.80	
		8	7	22.99	23.00	22.88	23.80	
		15	0	23.02	23.00	22.94	23.80	
	16QAM	1	0	22.97	23.38	22.97	23.80	
		1	7	22.95	23.40	22.94	23.80	
		1	14	22.84	23.32	22.85	23.80	
		8	0	22.16	22.10	22.01	22.80	
		8	4	22.13	22.13	22.03	22.80	
		8	7	22.08	22.04	21.93	22.80	
		15	0	22.06	22.01	21.89	22.80	
		64QAM	1	0	21.96	21.86	21.83	22.80
	1		7	22.01	22.08	21.97	22.80	
	1		14	21.68	22.05	21.76	22.80	
	8		0	20.95	21.01	21.01	21.80	
	8		4	21.05	21.04	20.85	21.80	
	8		7	20.96	21.14	21.00	21.80	
	15		0	21.16	21.06	20.90	21.80	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	24.06	24.03	23.89	24.80	
		1	13	23.91	24.00	23.88	24.80	
		1	24	23.87	23.95	23.85	24.80	
		12	0	23.06	23.02	22.92	23.80	
		12	6	22.98	22.98	22.90	23.80	
		12	13	22.99	23.00	22.91	23.80	
		25	0	23.01	22.96	22.93	23.80	
	16QAM	1	0	23.24	23.59	23.21	23.80	
		1	13	23.19	23.62	23.13	23.80	
		1	24	23.17	23.54	23.17	23.80	
		12	0	22.12	22.18	22.00	22.80	
		12	6	22.13	22.11	21.96	22.80	
		12	13	22.05	22.12	21.95	22.80	
		25	0	22.05	22.02	21.86	22.80	
	64QAM	1	0	22.02	21.82	22.00	22.80	
		1	13	21.94	21.97	22.08	22.80	
		1	24	21.76	22.00	21.75	22.80	
		12	0	21.09	20.92	21.02	21.80	
		12	6	21.00	20.91	20.82	21.80	
		12	13	21.14	21.00	21.02	21.80	
		25	0	20.87	21.09	21.09	21.80	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					20450/829	20525/836.5	20600/844	



<b>10MHz</b>	<b>QPSK</b>	1	0	23.98	<b>23.91</b>	<b>23.85</b>	24.80
		1	25	23.94	23.87	23.82	24.80
		1	49	<b>23.99</b>	23.80	23.81	24.80
		25	0	<b>23.02</b>	22.97	22.93	23.80
		25	13	23.01	23.01	<b>22.97</b>	23.80
		25	25	<b>23.02</b>	<b>23.02</b>	22.91	23.80
		50	0	<b>23.04</b>	22.97	22.91	23.80
	<b>16QAM</b>	1	0	23.04	22.94	23.31	23.80
		1	25	22.92	23.00	23.28	23.80
		1	49	22.96	22.97	23.25	23.80
		25	0	22.09	22.06	21.94	22.80
		25	13	22.19	22.04	22.04	22.80
		25	25	22.10	22.05	22.00	22.80
		50	0	22.07	21.98	21.94	22.80
	<b>64QAM</b>	1	0	22.07	21.77	21.88	22.80
		1	25	21.92	21.93	22.04	22.80
		1	49	21.73	21.94	21.73	22.80
		25	0	21.03	20.95	20.98	21.80
		25	13	21.02	21.04	20.83	21.80
		25	25	20.90	21.02	20.98	21.80
		50	0	21.10	21.15	21.05	21.80

<b>LTE FDD Band 7 Full Power ANT0</b>				<b>Conducted Power(dBm)</b>			<b>Tune-up Limit</b>
<b>Bandwidth</b>	<b>Modulation</b>	<b>RB size</b>	<b>RB offset</b>	<b>Channel/Frequency (MHz)</b>			
				<b>20775/2502.5</b>	<b>21100/2535</b>	<b>21425/2567.5</b>	
<b>5MHz</b>	<b>QPSK</b>	1	0	23.15	23.24	23.24	24.30
		1	13	23.11	23.14	23.12	24.30
		1	24	23.03	23.18	22.97	24.30
		12	0	22.10	22.11	22.04	23.30
		12	6	22.17	22.26	22.04	23.30
		12	13	22.14	22.26	22.13	23.30
		25	0	22.16	22.19	22.02	23.30
	<b>16QAM</b>	1	0	22.40	22.61	22.17	23.30
		1	13	22.34	22.72	22.23	23.30
		1	24	22.28	22.73	22.14	23.30
		12	0	21.27	21.31	21.13	22.30
		12	6	21.29	21.45	21.14	22.30
		12	13	21.27	21.41	21.18	22.30
		25	0	21.23	21.27	21.11	22.30
	<b>64QAM</b>	1	0	21.02	21.22	21.16	22.30
		1	13	21.06	21.21	21.00	22.30
		1	24	20.88	21.17	21.08	22.30



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				20800/2505	21100/2535	21400/2565		
		12	0	20.07	20.20	19.93	21.30	
		12	6	20.29	20.17	19.93	21.30	
		12	13	20.20	20.34	20.28	21.30	
		25	0	20.12	20.34	20.10	21.30	
10MHz	QPSK	1	0	23.17	23.15	23.05	24.30	
		1	25	23.06	23.03	22.95	24.30	
		1	49	22.97	22.99	22.90	24.30	
		25	0	22.05	22.03	21.90	23.30	
		25	13	22.17	22.07	22.02	23.30	
		25	25	22.12	22.19	21.97	23.30	
		50	0	22.14	22.06	21.91	23.30	
	16QAM	1	0	21.93	22.42	21.94	23.30	
		1	25	22.03	22.44	21.93	23.30	
		1	49	22.05	22.48	21.99	23.30	
		25	0	21.06	21.13	21.06	22.30	
		25	13	21.14	21.15	21.19	22.30	
		25	25	21.16	21.23	21.10	22.30	
		50	0	21.06	21.14	20.94	22.30	
	64QAM	1	0	21.01	21.20	21.31	22.30	
		1	25	21.00	21.13	21.08	22.30	
		1	49	21.02	21.10	21.10	22.30	
		25	0	20.19	20.14	19.90	21.30	
		25	13	20.03	20.11	20.08	21.30	
		25	25	20.29	20.15	20.19	21.30	
		50	0	20.27	20.21	20.13	21.30	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					20825/2507.5	21100/2535	21375/2562.5	
	15MHz	QPSK	1	0	23.42	23.33	23.15	24.30
			1	38	23.20	23.17	23.12	24.30
			1	74	23.06	23.12	23.04	24.30
			36	0	22.20	22.13	21.97	23.30
			36	18	22.22	22.23	22.10	23.30
36			39	22.21	22.28	22.10	23.30	
75			0	22.19	22.26	22.08	23.30	
16QAM		1	0	22.12	22.58	22.49	23.30	
		1	38	22.18	22.54	22.63	23.30	
		1	74	22.12	22.60	22.49	23.30	
		36	0	21.18	21.18	21.17	22.30	
		36	18	21.20	21.26	21.25	22.30	
		36	39	21.21	21.26	21.23	22.30	
		75	0	21.17	21.23	21.18	22.30	





Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
	64QAM	1	0	21.14	21.11	21.33	22.30
		1	38	21.09	21.23	21.21	22.30
		1	74	21.12	21.13	20.87	22.30
		36	0	20.10	20.04	20.00	21.30
		36	18	20.07	20.24	20.17	21.30
		36	39	20.24	20.21	20.21	21.30
		75	0	20.14	20.29	20.00	21.30
20MHz	QPSK	1	0	<b>23.39</b>	<b>23.29</b>	<b>23.08</b>	24.30
		1	50	23.11	23.22	23.02	24.30
		1	99	23.02	23.18	22.99	24.30
		50	0	22.08	22.11	21.99	23.30
		50	25	<b>22.14</b>	22.17	<b>22.18</b>	23.30
		50	50	22.07	<b>22.20</b>	22.10	23.30
		100	0	22.06	<b>22.17</b>	22.13	23.30
	16QAM	1	0	22.66	22.60	22.52	23.30
		1	50	22.60	22.63	22.47	23.30
		1	99	22.58	22.65	22.45	23.30
		50	0	21.06	21.13	21.02	22.30
		50	25	21.15	21.15	21.15	22.30
		50	50	21.11	21.18	21.13	22.30
		100	0	21.09	21.12	21.13	22.30
	64QAM	1	0	21.00	21.20	21.24	22.30
		1	50	20.96	21.10	21.24	22.30
		1	99	20.88	21.23	20.83	22.30
		50	0	20.05	20.25	19.97	21.30
		50	25	20.28	20.28	20.07	21.30
		50	50	20.24	20.40	20.13	21.30
		100	0	20.10	20.17	20.10	21.30

LTE FDD Band 7 ANT1 Level 1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	16.82	16.60	16.49	17.80
		1	13	16.79	16.75	16.68	17.80
		1	24	16.82	16.83	16.70	17.80
		12	0	16.75	16.78	16.83	17.80
		12	6	17.00	16.91	17.03	17.80
		12	13	16.87	16.78	16.84	17.80
		25	0	16.72	16.82	16.94	17.80
	16QAM	1	0	16.89	16.56	16.68	17.80



		1	13	16.54	16.81	16.61	17.80
		1	24	16.86	17.02	16.48	17.80
		12	0	17.04	16.61	16.79	17.80
		12	6	16.83	16.84	17.06	17.80
		12	13	16.97	16.83	16.86	17.80
		25	0	16.65	16.69	16.89	17.80
	64QAM	1	0	16.77	16.67	16.48	17.80
		1	13	16.43	17.03	16.68	17.80
		1	24	16.75	16.84	16.91	17.80
		12	0	16.64	16.69	16.86	17.80
		12	6	16.91	16.78	16.77	17.80
		12	13	16.86	16.54	17.04	17.80
		25	0	16.94	16.76	16.85	17.80
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
20800/2505					21100/2535	21400/2565	
10MHz	QPSK	1	0	16.78	16.74	16.79	17.80
		1	25	16.61	16.72	16.71	17.80
		1	49	16.93	16.85	16.78	17.80
		25	0	16.85	16.73	16.74	17.80
		25	13	16.93	16.90	16.87	17.80
		25	25	16.76	16.75	16.85	17.80
		50	0	16.74	16.64	16.72	17.80
	16QAM	1	0	16.78	16.63	16.59	17.80
		1	25	16.75	16.85	16.51	17.80
		1	49	16.84	16.99	16.66	17.80
		25	0	16.80	16.82	16.72	17.80
		25	13	16.68	16.63	16.90	17.80
		25	25	17.02	16.68	17.00	17.80
		50	0	16.74	16.87	16.80	17.80
	64QAM	1	0	16.72	16.71	16.60	17.80
		1	25	16.70	17.01	16.69	17.80
		1	49	16.77	16.79	16.84	17.80
		25	0	16.80	16.58	16.60	17.80
		25	13	16.77	16.90	16.79	17.80
		25	25	16.86	16.61	16.86	17.80
		50	0	16.99	16.90	16.77	17.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	16.88	16.76	16.73	17.80
		1	38	16.70	16.83	16.78	17.80
		1	74	16.84	16.80	16.65	17.80
		36	0	16.86	16.74	16.62	17.80
		36	18	16.73	16.91	17.02	17.80



		36	39	16.93	16.91	16.95	17.80
		75	0	16.85	16.85	16.72	17.80
	16QAM	1	0	16.73	16.58	16.73	17.80
		1	38	16.64	16.75	16.53	17.80
		1	74	16.96	16.94	16.70	17.80
		36	0	16.96	16.74	16.99	17.80
		36	18	16.68	16.64	16.97	17.80
		36	39	17.08	16.70	16.89	17.80
		75	0	16.79	16.62	16.67	17.80
		64QAM	1	0	16.60	16.57	16.44
	1		38	16.58	16.87	16.67	17.80
	1		74	16.70	16.73	16.94	17.80
	36		0	16.64	16.84	16.69	17.80
	36		18	16.95	16.85	16.85	17.80
	36		39	16.86	16.65	16.97	17.80
	75		0	16.78	16.82	16.88	17.80
<b>Bandwidth</b>	<b>Modulation</b>		<b>RB size</b>	<b>RB offset</b>	<b>Channel/Frequency (MHz)</b>		
		20850/2510			21100/2535	21350/2560	
<b>20MHz</b>	QPSK	1	0	16.73	16.72	16.64	17.80
		1	50	16.67	16.76	16.63	17.80
		1	99	<b>16.78</b>	<b>16.79</b>	<b>16.69</b>	17.80
		50	0	16.84	16.78	16.74	17.80
		50	25	<b>16.85</b>	<b>16.82</b>	<b>16.89</b>	17.80
		50	50	16.83	16.81	16.87	17.80
		100	0	16.81	16.77	<b>16.87</b>	17.80
		16QAM	1	0	16.87	16.65	16.62
	1		50	16.66	16.74	16.49	17.80
	1		99	16.88	16.88	16.55	17.80
	50		0	16.90	16.68	16.85	17.80
	50		25	16.77	16.76	17.02	17.80
	50		50	16.97	16.76	16.93	17.80
	100		0	16.69	16.73	16.75	17.80
	64QAM		1	0	16.74	16.57	16.56
		1	50	16.56	16.91	16.76	17.80
		1	99	16.68	16.83	16.82	17.80
		50	0	16.79	16.71	16.75	17.80
		50	25	16.84	16.78	16.81	17.80
		50	50	16.80	16.69	16.92	17.80
		100	0	16.86	16.91	16.91	17.80

<b>LTE FDD Band 7 ANT1 Level 2&amp;3</b>	<b>Conducted Power(dBm)</b>	<b>Tune-up Limit</b>
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Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	15.71	15.87	15.44	16.80
		1	13	15.53	15.64	15.64	16.80
		1	24	15.55	15.84	15.89	16.80
		12	0	15.89	15.82	15.80	16.80
		12	6	15.85	15.83	15.75	16.80
		12	13	15.82	15.84	15.75	16.80
		25	0	15.70	15.68	15.85	16.80
	16QAM	1	0	15.77	15.90	15.46	16.80
		1	13	15.78	15.60	15.68	16.80
		1	24	15.60	15.92	15.73	16.80
		12	0	15.88	15.80	15.68	16.80
		12	6	16.13	15.85	15.87	16.80
		12	13	15.75	15.85	15.81	16.80
		25	0	15.52	15.57	15.95	16.80
	64QAM	1	0	15.72	15.71	15.36	16.80
		1	13	15.68	15.78	15.61	16.80
		1	24	15.52	15.81	15.92	16.80
		12	0	15.98	15.82	15.60	16.80
		12	6	15.73	15.66	15.90	16.80
		12	13	15.72	15.97	15.89	16.80
		25	0	15.73	15.99	15.89	16.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
10MHz	QPSK	1	0	15.55	15.84	15.62	16.80
		1	25	15.51	15.58	15.62	16.80
		1	49	15.60	15.89	15.80	16.80
		25	0	15.79	15.91	15.69	16.80
		25	13	15.81	15.66	15.89	16.80
		25	25	15.77	15.71	15.82	16.80
		50	0	15.70	15.68	15.74	16.80
	16QAM	1	0	15.74	16.02	15.44	16.80
		1	25	15.66	15.77	15.50	16.80
		1	49	15.68	15.98	15.59	16.80
		25	0	15.89	15.88	15.62	16.80
		25	13	15.87	15.78	15.86	16.80
		25	25	15.80	15.73	15.65	16.80
		50	0	15.55	15.74	15.99	16.80
	64QAM	1	0	15.85	15.76	15.40	16.80
		1	25	15.68	15.59	15.84	16.80
		1	49	15.70	15.61	16.01	16.80
		25	0	15.80	15.70	15.53	16.80



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	25	13	15.79	15.54	15.85	16.80
		25	25	15.79	16.04	15.82	16.80
		50	0	15.75	15.84	15.84	16.80
		1	0	15.77	15.76	15.49	16.80
		1	38	15.65	15.70	15.74	16.80
		1	74	15.54	15.72	15.83	16.80
		36	0	15.73	15.69	15.73	16.80
	36	18	15.80	15.67	15.86	16.80	
	36	39	15.79	15.94	15.94	16.80	
	75	0	15.79	15.61	15.72	16.80	
	1	0	15.53	15.92	15.55	16.80	
	1	38	15.82	15.53	15.64	16.80	
	1	74	15.56	15.94	15.73	16.80	
	36	0	15.85	15.75	15.60	16.80	
	36	18	16.00	15.89	15.88	16.80	
	36	39	15.58	15.74	15.59	16.80	
	75	0	15.57	15.73	15.81	16.80	
	1	0	15.81	15.73	15.50	16.80	
	1	38	15.61	15.62	15.77	16.80	
	1	74	15.55	15.75	15.97	16.80	
	36	0	15.94	15.67	15.69	16.80	
36	18	15.62	15.66	15.88	16.80		
36	39	15.72	16.02	15.96	16.80		
75	0	15.51	16.02	15.89	16.80		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	<b>15.62</b>	15.75	15.59	16.80
		1	50	15.60	15.66	15.69	16.80
		1	99	15.59	<b>15.76</b>	<b>15.74</b>	16.80
		50	0	15.78	15.76	15.71	16.80
		50	25	<b>15.83</b>	15.77	15.83	16.80
		50	50	15.78	<b>15.80</b>	<b>15.85</b>	16.80
		100	0	15.75	15.74	<b>15.83</b>	16.80
	1	0	15.62	15.87	15.58	16.80	
	1	50	15.69	15.68	15.65	16.80	
	1	99	15.54	15.84	15.66	16.80	
	50	0	15.75	15.74	15.74	16.80	
	50	25	15.98	15.88	15.93	16.80	
	50	50	15.66	15.81	15.73	16.80	
	100	0	15.62	15.71	15.91	16.80	
	64QAM	1	0	15.76	15.70	15.45	16.80



		1	50	15.62	15.73	15.70	16.80
		1	99	15.58	15.76	15.86	16.80
		50	0	15.90	15.76	15.65	16.80
		50	25	15.72	15.65	15.90	16.80
		50	50	15.87	15.91	15.95	16.80
		100	0	15.62	15.88	15.96	16.80

LTE FDD Band 7 ANT1 Level 4				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	19.31	19.27	19.32	20.30
		1	13	19.36	19.38	19.38	20.30
		1	24	19.36	19.35	19.30	20.30
		12	0	19.45	19.37	19.45	20.30
		12	6	19.43	19.45	19.42	20.30
		12	13	19.46	19.46	19.44	20.30
		25	0	19.45	19.41	19.48	20.30
	16QAM	1	0	19.84	19.51	19.60	20.30
		1	13	19.92	19.59	19.57	20.30
		1	24	19.92	19.56	19.57	20.30
		12	0	19.60	19.44	19.54	20.30
		12	6	19.57	19.46	19.48	20.30
		12	13	19.56	19.49	19.50	20.30
		25	0	19.47	19.36	19.45	20.30
	64QAM	1	0	19.19	19.19	19.28	20.30
		1	13	19.18	19.40	19.04	20.30
		1	24	19.34	19.43	19.38	20.30
		12	0	19.25	19.46	19.45	20.30
		12	6	19.45	19.37	19.43	20.30
		12	13	19.39	19.49	19.42	20.30
		25	0	19.39	19.32	19.57	20.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	19.27	19.27	19.35	20.30
		1	25	19.31	19.34	19.35	20.30
		1	49	19.31	19.32	19.36	20.30
		25	0	19.44	19.39	19.32	20.30
		25	13	19.46	19.37	19.49	20.30
		25	25	19.44	19.45	19.45	20.30
		50	0	19.42	19.42	19.37	20.30
	16QAM	1	0	19.40	19.75	19.40	20.30
		1	25	19.27	19.74	19.33	20.30



		1	49	19.32	19.76	19.38	20.30	
		25	0	19.46	19.43	19.48	20.30	
		25	13	19.45	19.42	19.55	20.30	
		25	25	19.47	19.50	19.60	20.30	
		50	0	19.45	19.38	19.42	20.30	
	64QAM	1	0	19.36	19.02	19.26	20.30	
		1	25	19.37	19.19	19.16	20.30	
		1	49	19.24	19.47	19.34	20.30	
		25	0	19.34	19.34	19.28	20.30	
		25	13	19.57	19.48	19.34	20.30	
		25	25	19.50	19.54	19.42	20.30	
		50	0	19.38	19.42	19.39	20.30	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
20825/2507.5					21100/2535	21375/2562.5		
15MHz	QPSK	1	0	19.23	19.29	19.30	20.30	
		1	38	19.27	19.32	19.34	20.30	
		1	74	19.29	19.32	19.34	20.30	
		36	0	19.35	19.34	19.33	20.30	
		36	18	19.41	19.35	19.38	20.30	
		36	39	19.35	19.44	19.43	20.30	
		75	0	19.34	19.34	19.34	20.30	
	16QAM	1	0	19.41	19.69	19.66	20.30	
		1	38	19.38	19.77	19.83	20.30	
		1	74	19.33	19.78	19.77	20.30	
		36	0	19.39	19.41	19.36	20.30	
		36	18	19.43	19.40	19.38	20.30	
		36	39	19.39	19.48	19.44	20.30	
		75	0	19.36	19.34	19.35	20.30	
	64QAM	1	0	19.44	19.26	19.23	20.30	
		1	38	19.19	19.38	19.07	20.30	
		1	74	19.44	19.27	19.24	20.30	
		36	0	19.34	19.49	19.41	20.30	
		36	18	19.48	19.49	19.58	20.30	
		36	39	19.35	19.37	19.43	20.30	
		75	0	19.53	19.44	19.48	20.30	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					20850/2510	21100/2535	21350/2560	
	20MHz	QPSK	1	0	<b>19.34</b>	19.11	19.20	20.30
1			50	19.23	19.33	19.17	20.30	
1			99	<b>19.34</b>	<b>19.39</b>	<b>19.26</b>	20.30	
50			0	19.39	19.34	19.32	20.30	
50			25	<b>19.43</b>	19.37	19.43	20.30	
50			50	19.40	<b>19.40</b>	<b>19.44</b>	20.30	



	16QAM	100	0	19.41	19.32	<b>19.42</b>	20.30
		1	0	19.99	20.22	19.79	20.30
		1	50	19.85	19.90	19.80	20.30
		1	99	20.00	20.01	19.79	20.30
		50	0	19.43	19.39	19.37	20.30
		50	25	19.44	19.35	19.47	20.30
		50	50	19.41	19.42	19.42	20.30
		100	0	19.46	19.38	19.42	20.30
	64QAM	1	0	19.48	19.23	19.32	20.30
		1	50	19.26	19.29	19.03	20.30
		1	99	19.40	19.30	19.14	20.30
		50	0	19.36	19.45	19.23	20.30
		50	25	19.43	19.32	19.57	20.30
		50	50	19.29	19.51	19.55	20.30
		100	0	19.49	19.30	19.27	20.30

LTE FDD Band 7 ANT1 Level 5&6				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	18.49	18.65	18.79	19.80
		1	13	18.51	18.78	18.83	19.80
		1	24	18.44	18.59	18.66	19.80
		12	0	18.71	18.91	18.74	19.80
		12	6	18.73	18.73	18.96	19.80
		12	13	18.87	18.93	18.73	19.80
		25	0	18.82	18.77	18.77	19.80
	16QAM	1	0	18.50	18.60	18.82	19.80
		1	13	18.49	18.64	18.64	19.80
		1	24	18.79	18.59	18.94	19.80
		12	0	18.81	18.80	18.91	19.80
		12	6	18.93	18.66	18.64	19.80
		12	13	18.66	18.64	18.88	19.80
		25	0	18.78	18.66	18.83	19.80
	64QAM	1	0	18.48	18.79	18.74	19.80
		1	13	18.63	18.53	18.71	19.80
		1	24	18.50	18.66	18.66	19.80
		12	0	18.76	18.61	18.86	19.80
		12	6	18.70	18.78	18.91	19.80
		12	13	18.61	18.59	18.94	19.80
		25	0	18.79	18.68	18.91	19.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	





10MHz	QPSK	1	0	18.68	18.83	18.71	19.80
		1	25	18.60	18.67	18.81	19.80
		1	49	18.70	18.69	18.70	19.80
		25	0	18.75	18.66	18.73	19.80
		25	13	18.69	18.93	18.72	19.80
		25	25	18.90	18.70	18.80	19.80
		50	0	18.68	18.81	18.74	19.80
	16QAM	1	0	18.74	18.66	18.72	19.80
		1	25	18.51	18.73	18.70	19.80
		1	49	18.66	18.66	18.82	19.80
		25	0	18.84	18.78	19.04	19.80
		25	13	18.80	18.87	18.68	19.80
		25	25	18.58	18.91	19.03	19.80
		50	0	18.64	18.73	18.88	19.80
	64QAM	1	0	18.47	18.58	18.87	19.80
		1	25	18.72	18.55	18.80	19.80
		1	49	18.48	18.77	18.86	19.80
		25	0	18.79	18.59	18.77	19.80
		25	13	18.81	18.86	18.93	19.80
		25	25	18.71	18.67	18.72	19.80
		50	0	19.04	18.71	18.88	19.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	18.58	18.68	18.52	19.80
		1	38	18.66	18.55	18.57	19.80
		1	74	18.66	18.69	18.70	19.80
		36	0	18.85	18.71	18.90	19.80
		36	18	18.88	18.92	18.82	19.80
		36	39	18.70	18.83	18.76	19.80
		75	0	18.96	18.69	18.70	19.80
	16QAM	1	0	18.76	18.88	18.69	19.80
		1	38	18.44	18.59	18.75	19.80
		1	74	18.66	18.71	18.74	19.80
		36	0	18.90	18.92	18.81	19.80
		36	18	18.87	18.86	18.58	19.80
		36	39	18.57	18.87	18.91	19.80
		75	0	18.85	18.80	18.83	19.80
	64QAM	1	0	18.54	18.80	18.76	19.80
		1	38	18.47	18.75	18.73	19.80
		1	74	18.58	18.70	18.93	19.80
		36	0	18.77	18.53	18.76	19.80
		36	18	18.54	18.79	18.70	19.80
		36	39	18.73	18.78	18.75	19.80



Bandwidth	Modulation	75	0	18.99	18.65	18.94	19.80
		RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	<b>18.62</b>	<b>18.76</b>	18.64	19.80
		1	50	18.57	18.68	18.69	19.80
		1	99	18.59	18.73	<b>18.74</b>	19.80
		50	0	<b>18.82</b>	18.78	18.76	19.80
		50	25	<b>18.82</b>	18.78	<b>18.84</b>	19.80
		50	50	18.80	<b>18.83</b>	<b>18.84</b>	19.80
		100	0	18.83	18.74	<b>18.84</b>	19.80
	16QAM	1	0	18.61	18.73	18.71	19.80
		1	50	18.43	18.61	18.61	19.80
		1	99	18.74	18.63	18.80	19.80
		50	0	18.89	18.83	18.89	19.80
		50	25	18.88	18.80	18.72	19.80
		50	50	18.65	18.76	18.97	19.80
		100	0	18.72	18.66	18.81	19.80
	64QAM	1	0	18.59	18.69	18.79	19.80
		1	50	18.62	18.64	18.69	19.80
		1	99	18.45	18.78	18.79	19.80
		50	0	18.67	18.63	18.81	19.80
		50	25	18.68	18.77	18.78	19.80
		50	50	18.68	18.72	18.82	19.80
		100	0	18.89	18.60	18.92	19.80

LTE FDD Band 7 ANT0 Level 4				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	21.85	21.84	21.87	22.80
		1	13	22.06	21.68	21.80	22.80
		1	24	21.91	21.81	21.89	22.80
		12	0	22.13	21.78	21.71	22.80
		12	6	22.03	21.83	22.00	22.80
		12	13	21.84	21.85	21.76	22.80
		25	0	22.14	21.93	21.85	22.80
	16QAM	1	0	21.77	21.93	21.82	22.80
		1	13	21.93	21.82	21.72	22.80
		1	24	21.91	21.91	21.84	22.80
		12	0	21.07	21.03	21.01	22.30
		12	6	21.30	21.16	20.93	22.30
		12	13	21.16	21.05	21.16	22.30
		25	0	21.08	21.18	21.08	22.30



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
	64QAM	1	0	21.07	21.06	21.38	22.30
		1	13	20.99	21.19	21.09	22.30
		1	24	20.74	21.29	20.78	22.30
		12	0	20.06	20.26	19.97	21.30
		12	6	20.36	20.23	19.94	21.30
		12	13	20.19	20.34	20.25	21.30
		25	0	20.09	19.92	19.95	21.30
10MHz	QPSK	1	0	22.09	21.93	21.86	22.80
		1	25	22.06	21.93	21.73	22.80
		1	49	22.00	21.78	21.85	22.80
		25	0	22.02	21.88	21.74	22.80
		25	13	21.98	21.96	21.82	22.80
		25	25	21.98	21.91	21.86	22.80
		50	0	21.94	21.95	21.91	22.80
	16QAM	1	0	21.78	21.88	22.02	22.80
		1	25	21.88	21.97	21.90	22.80
		1	49	21.80	21.66	21.79	22.80
		25	0	20.98	21.17	20.86	22.30
		25	13	21.38	21.13	21.09	22.30
		25	25	21.11	21.32	21.30	22.30
		50	0	20.91	21.39	21.15	22.30
	64QAM	1	0	20.99	21.05	21.38	22.30
		1	25	21.14	21.15	21.02	22.30
		1	49	20.78	21.50	20.85	22.30
		25	0	20.11	20.13	19.90	21.30
		25	13	20.20	20.48	19.92	21.30
		25	25	20.16	20.58	20.30	21.30
		50	0	20.20	20.10	19.97	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	22.08	21.94	21.92	22.80
		1	38	22.03	21.84	21.79	22.80
		1	74	22.10	21.76	21.96	22.80
		36	0	21.94	21.92	21.95	22.80
		36	18	22.03	21.94	22.01	22.80
		36	39	21.92	22.02	22.03	22.80
		75	0	21.99	21.83	21.92	22.80
	16QAM	1	0	21.78	21.80	22.02	22.80
		1	38	22.10	21.84	21.82	22.80
		1	74	21.84	21.92	21.83	22.80
		36	0	21.11	21.22	20.90	22.30



		36	18	21.22	21.25	20.96	22.30
		36	39	21.34	21.27	21.32	22.30
		75	0	20.91	21.38	20.95	22.30
	64QAM	1	0	20.86	21.26	21.18	22.30
		1	38	21.13	21.01	21.18	22.30
		1	74	20.91	21.21	20.81	22.30
		36	0	20.01	20.13	19.89	21.30
		36	18	20.34	20.46	20.08	21.30
		36	39	20.26	20.51	20.32	21.30
		75	0	20.15	20.15	20.04	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	<b>21.95</b>	<b>21.83</b>	<b>21.84</b>	22.80
		1	50	21.93	21.79	21.78	22.80
		1	99	<b>21.95</b>	21.72	21.83	22.80
		50	0	22.00	<b>21.92</b>	21.80	22.80
		50	25	<b>22.01</b>	21.91	<b>21.91</b>	22.80
		50	50	21.98	21.91	21.88	22.80
		100	0	<b>21.99</b>	21.87	21.89	22.80
	16QAM	1	0	21.81	21.94	21.92	22.80
		1	50	22.01	21.87	21.87	22.80
		1	99	21.87	21.77	21.91	22.80
		50	0	21.13	21.07	20.88	22.30
		50	25	21.23	21.10	21.06	22.30
		50	50	21.23	21.18	21.18	22.30
		100	0	20.96	21.27	21.02	22.30
	64QAM	1	0	20.98	21.13	21.24	22.30
		1	50	21.03	21.13	21.15	22.30
		1	99	20.81	21.36	20.82	22.30
		50	0	20.05	20.23	19.98	21.30
		50	25	20.23	20.35	19.93	21.30
		50	50	20.29	20.49	20.18	21.30
		100	0	20.16	20.05	20.10	21.30



LTE FDD Band 7 ANT0 Level 5&6				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	21.55	21.36	21.33	21.80
		1	13	21.38	21.32	21.36	21.80
		1	24	21.42	21.51	21.26	21.80
		12	0	21.51	21.42	21.44	21.80
		12	6	21.61	21.44	21.59	21.80
		12	13	21.43	21.31	21.27	21.80
		25	0	21.62	21.46	21.32	21.80
	16QAM	1	0	21.22	21.48	21.16	21.80
		1	13	21.39	21.44	21.25	21.80
		1	24	21.47	21.57	21.35	21.80
		12	0	21.61	21.17	21.50	21.80
		12	6	21.39	21.36	21.54	21.80
		12	13	21.67	21.52	21.27	21.80
		25	0	21.55	21.51	21.69	21.80
	64QAM	1	0	21.53	21.30	21.30	21.80
		1	13	21.59	21.23	21.06	21.80
		1	24	21.48	21.42	21.17	21.80
		12	0	19.99	20.08	20.12	21.30
		12	6	20.20	20.10	20.10	21.30
		12	13	20.30	20.31	20.21	21.30
		25	0	19.96	20.06	19.86	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	21.48	21.43	21.15	21.80
		1	25	21.56	21.25	21.13	21.80
		1	49	21.54	21.26	21.06	21.80
		25	0	21.45	21.39	21.47	21.80
		25	13	21.62	21.34	21.34	21.80
		25	25	21.47	21.37	21.29	21.80
		50	0	21.53	21.26	21.41	21.80
	16QAM	1	0	21.33	21.58	21.18	21.80
		1	25	21.60	21.52	21.13	21.80
		1	49	21.33	21.56	21.29	21.80
		25	0	21.49	21.38	21.42	21.80
		25	13	21.47	21.43	21.47	21.80
		25	25	21.70	21.62	21.24	21.80
		50	0	21.52	21.28	21.60	21.80
	64QAM	1	0	21.37	21.23	21.19	21.80



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				20825/2507.5	21100/2535	21375/2562.5		
		1	25	21.49	21.11	21.18	21.80	
		1	49	21.45	21.48	20.96	21.80	
		25	0	20.00	19.95	20.17	21.30	
		25	13	20.26	20.21	20.02	21.30	
		25	25	20.35	20.26	20.18	21.30	
		50	0	20.07	20.27	19.95	21.30	
15MHz	QPSK	1	0	21.58	21.45	21.09	21.80	
		1	38	21.52	21.46	21.15	21.80	
		1	74	21.27	21.37	21.10	21.80	
		36	0	21.66	21.31	21.35	21.80	
		36	18	21.64	21.35	21.53	21.80	
		36	39	21.62	21.33	21.39	21.80	
		75	0	21.45	21.48	21.53	21.80	
	16QAM	1	0	21.38	21.40	21.19	21.80	
		1	38	21.65	21.68	21.20	21.80	
		1	74	21.48	21.50	21.13	21.80	
		36	0	21.46	21.30	21.58	21.80	
		36	18	21.44	21.48	21.51	21.80	
		36	39	21.51	21.59	21.20	21.80	
		75	0	21.35	21.37	21.45	21.80	
	64QAM	1	0	21.36	21.37	21.11	21.80	
		1	38	21.40	21.27	21.17	21.80	
		1	74	21.69	21.30	20.96	21.80	
		36	0	20.25	20.09	20.24	21.30	
		36	18	20.37	20.05	20.12	21.30	
		36	39	20.42	20.51	20.12	21.30	
		75	0	20.09	20.18	20.10	21.30	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					20850/2510	21100/2535	21350/2560	
	20MHz	QPSK	1	0	<b>21.45</b>	<b>21.47</b>	21.19	21.80
1			50	21.41	21.39	<b>21.24</b>	21.80	
1			99	21.42	21.39	21.18	21.80	
50			0	21.52	21.41	21.38	21.80	
50			25	<b>21.53</b>	21.40	<b>21.44</b>	21.80	
50			50	21.52	<b>21.46</b>	21.40	21.80	
100			0	<b>21.54</b>	21.37	21.40	21.80	
16QAM		1	0	21.37	21.48	21.16	21.80	
		1	50	21.51	21.53	21.27	21.80	
		1	99	21.34	21.53	21.28	21.80	
		50	0	21.55	21.32	21.44	21.80	
		50	25	21.38	21.46	21.44	21.80	



		50	50	21.65	21.48	21.32	21.80
		100	0	21.46	21.41	21.55	21.80
	64QAM	1	0	21.38	21.35	21.17	21.80
		1	50	21.53	21.25	21.16	21.80
		1	99	21.55	21.45	21.11	21.80
		50	0	20.11	19.94	20.15	21.30
		50	25	20.22	20.16	20.13	21.30
		50	50	20.29	20.36	20.09	21.30
		100	0	20.09	20.16	20.00	21.30

LTE FDD Band 12 Full Power ANT0&1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	23.70	23.64	23.61	24.80
		1	2	23.72	23.70	23.64	24.80
		1	5	23.61	23.68	23.55	24.80
		3	0	23.67	23.65	23.64	24.80
		3	2	23.71	23.72	23.67	24.80
		3	3	23.61	23.70	23.65	24.80
		6	0	22.74	22.72	22.69	23.80
	16QAM	1	0	22.89	23.11	22.72	23.80
		1	2	22.95	23.17	22.73	23.80
		1	5	22.87	23.13	22.68	23.80
		3	0	22.84	22.93	22.85	23.80
		3	2	22.84	23.02	22.86	23.80
		3	3	22.83	22.94	22.80	23.80
		6	0	21.92	21.63	21.88	22.80
	64QAM	1	0	21.65	21.63	21.75	22.80
		1	2	21.75	21.69	21.53	22.80
		1	5	21.62	21.58	21.64	22.80
		3	0	21.77	21.50	21.77	22.80
		3	2	21.81	21.74	21.71	22.80
		3	3	21.47	21.81	21.60	22.80
		6	0	20.89	20.80	20.55	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				23025/700.5	23095/707.5	23165/714.5	
3MHz	QPSK	1	0	23.83	23.84	23.72	24.80
		1	7	23.79	23.79	23.72	24.80
		1	14	23.70	23.73	23.63	24.80
		8	0	22.89	22.91	22.73	23.80
		8	4	22.87	22.90	22.81	23.80



		8	7	22.81	22.85	22.73	23.80
		15	0	22.88	22.84	22.78	23.80
	16QAM	1	0	22.87	23.25	22.83	23.80
		1	7	22.80	23.27	22.82	23.80
		1	14	22.69	23.22	22.73	23.80
		8	0	21.96	21.94	21.82	22.80
		8	4	21.95	21.95	21.89	22.80
		8	7	21.88	21.93	21.83	22.80
		15	0	21.90	21.88	21.72	22.80
	64QAM	1	0	21.97	21.80	21.85	22.80
		1	7	21.82	21.72	21.58	22.80
		1	14	21.58	21.81	21.73	22.80
		8	0	20.87	21.05	20.65	21.80
		8	4	20.74	20.86	20.88	21.80
8		7	20.89	20.77	20.69	21.80	
15		0	20.96	20.77	20.67	21.80	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	23.91	23.86	23.74	24.80
		1	13	23.80	23.79	23.74	24.80
		1	24	23.70	23.76	23.73	24.80
		12	0	22.92	22.86	22.81	23.80
		12	6	22.85	22.92	22.84	23.80
		12	13	22.83	22.87	22.77	23.80
		25	0	22.84	22.82	22.79	23.80
	16QAM	1	0	23.12	23.39	22.97	23.80
		1	13	23.05	23.38	22.94	23.80
		1	24	22.97	23.35	22.87	23.80
		12	0	21.98	22.05	21.92	22.80
		12	6	21.93	22.08	21.92	22.80
		12	13	21.88	21.99	21.85	22.80
		25	0	21.87	21.93	21.74	22.80
	64QAM	1	0	21.91	21.93	21.67	22.80
		1	13	21.79	21.76	21.69	22.80
		1	24	21.78	21.59	21.51	22.80
		12	0	20.99	20.91	20.78	21.80
		12	6	20.81	20.93	20.77	21.80
		12	13	20.86	20.86	20.85	21.80
		25	0	20.93	20.83	20.75	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	<b>23.83</b>	<b>23.76</b>	<b>23.86</b>	24.80
		1	25	23.63	23.73	23.76	24.80





		1	49	23.66	23.64	23.66	24.80
		25	0	22.88	<b>22.94</b>	22.85	23.80
		25	13	<b>22.93</b>	22.85	<b>22.92</b>	23.80
		25	25	22.91	22.85	22.85	23.80
		50	0	22.92	22.86	<b>22.93</b>	23.80
	16QAM	1	0	22.81	23.19	22.89	23.80
		1	25	22.68	23.23	22.75	23.80
		1	49	22.70	23.13	22.73	23.80
		25	0	21.93	21.92	21.96	22.80
		25	13	21.95	21.96	22.00	22.80
		25	25	21.88	21.91	21.93	22.80
		50	0	21.92	21.89	21.95	22.80
	64QAM	1	0	21.76	21.91	21.60	22.80
		1	25	21.70	21.82	21.82	22.80
		1	49	21.71	21.84	21.53	22.80
		25	0	20.78	20.96	20.60	21.80
		25	13	20.75	20.99	20.83	21.80
		25	25	20.92	20.83	20.75	21.80
		50	0	20.77	20.86	20.72	21.80

LTE FDD Band 12 ANT1 Level 2&3				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	22.05	22.05	21.99	22.30
		1	2	22.12	22.14	22.01	22.30
		1	5	21.98	22.08	21.93	22.30
		3	0	22.05	21.98	22.04	22.30
		3	2	22.04	22.15	22.06	22.30
		3	3	22.00	22.06	22.00	22.30
		6	0	22.12	22.11	22.08	22.30
	16QAM	1	0	22.03	21.76	21.81	22.30
		1	2	21.80	21.89	21.97	22.30
		1	5	21.73	21.93	21.80	22.30
		3	0	21.92	21.81	21.86	22.30
		3	2	21.76	21.87	21.81	22.30
		3	3	21.84	21.81	21.77	22.30
		6	0	21.79	21.49	21.72	22.30
	64QAM	1	0	21.70	21.76	21.67	22.30
		1	2	21.61	21.61	21.58	22.30
		1	5	21.72	21.52	21.73	22.30
		3	0	21.91	21.52	21.82	22.30
		3	2	21.73	21.83	21.79	22.30



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				23025/700.5	23095/707.5	23165/714.5		
		3	3	21.41	21.86	21.66	22.30	
		6	0	21.03	20.81	20.52	21.80	
3MHz	QPSK	1	0	22.20	22.17	22.16	22.30	
		1	7	22.16	22.19	22.11	22.30	
		1	14	22.07	22.05	22.04	22.30	
		8	0	22.23	22.17	22.09	22.30	
		8	4	22.21	22.20	22.18	22.30	
		8	7	22.17	22.15	22.07	22.30	
		15	0	22.23	22.11	22.12	22.30	
	16QAM	1	0	21.93	21.82	21.95	22.30	
		1	7	21.78	21.76	21.91	22.30	
		1	14	21.89	21.73	21.90	22.30	
		8	0	21.86	21.75	21.64	22.30	
		8	4	21.83	21.78	21.73	22.30	
		8	7	21.78	21.75	21.64	22.30	
		15	0	21.75	21.68	21.55	22.30	
	64QAM	1	0	21.80	21.71	21.89	22.30	
		1	7	21.69	21.54	21.56	22.30	
		1	14	21.56	21.68	21.62	22.30	
		8	0	21.67	21.35	21.78	22.30	
		8	4	21.88	21.78	21.69	22.30	
		8	7	21.57	21.84	21.75	22.30	
		15	0	20.82	20.66	20.41	21.80	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					23035/701.5	23095/707.5	23155/713.5	
	5MHz	QPSK	1	0	22.13	22.16	22.09	22.30
1			13	22.13	22.12	22.14	22.30	
1			24	22.08	22.13	22.05	22.30	
12			0	22.22	22.16	22.15	22.30	
12			6	22.21	22.14	22.21	22.30	
12			13	22.14	22.13	22.13	22.30	
25			0	22.19	22.17	22.15	22.30	
16QAM		1	0	21.96	21.74	21.83	22.30	
		1	13	21.86	21.84	21.96	22.30	
		1	24	21.87	21.84	21.93	22.30	
		12	0	21.85	21.84	21.71	22.30	
		12	6	21.80	21.82	21.76	22.30	
		12	13	21.76	21.85	21.69	22.30	
		25	0	21.74	21.77	21.59	22.30	
64QAM		1	0	21.55	21.71	21.75	22.30	
		1	13	21.73	21.74	21.63	22.30	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				23060/704	23095/707.5	23130/711		
10MHz	QPSK	1	24	21.76	21.51	21.59	22.30	
		12	0	21.70	21.42	21.92	22.30	
		12	6	21.74	21.89	21.84	22.30	
		12	13	21.47	21.77	21.53	22.30	
		25	0	21.03	20.89	20.67	21.80	
	16QAM	16QAM	1	0	<b>22.17</b>	<b>22.04</b>	<b>22.11</b>	22.30
			1	25	22.01	22.02	22.09	22.30
			1	49	22.03	22.03	22.05	22.30
			25	0	<b>22.19</b>	<b>22.20</b>	<b>22.20</b>	22.30
			25	13	22.18	22.16	22.14	22.30
			25	25	22.18	<b>22.20</b>	22.18	22.30
			50	0	<b>22.23</b>	22.15	22.20	22.30
	64QAM	64QAM	1	0	22.00	21.77	21.91	22.30
			1	25	21.86	21.73	21.80	22.30
			1	49	21.86	21.92	21.80	22.30
			25	0	21.73	21.74	21.74	22.30
			25	13	21.75	21.71	21.74	22.30
			25	25	21.78	21.78	21.76	22.30
			50	0	21.71	21.69	21.67	22.30
	64QAM	64QAM	1	0	21.78	21.71	21.63	22.30
			1	25	21.83	21.74	21.45	22.30
			1	49	21.75	21.57	21.68	22.30
			25	0	21.66	21.36	21.62	22.30
			25	13	21.78	21.70	21.65	22.30
			25	25	21.45	21.72	21.58	22.30
50			0	20.91	20.65	20.56	21.80	

LTE FDD Band 17 Full Power ANT0&1				Conducted Power(dBm)			Tune-up Limit	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)				
				23755/706.5	23790/710	23825/713.5		
5MHz	QPSK	1	0	23.78	23.81	23.78	24.80	
		1	13	23.87	23.88	23.82	24.80	
		1	24	23.81	23.87	23.78	24.80	
		12	0	22.86	22.89	22.79	23.80	
		12	6	22.92	22.85	22.83	23.80	
		12	13	22.91	22.92	22.85	23.80	
		25	0	22.89	22.83	22.81	23.80	
	16QAM	16QAM	1	0	23.04	23.36	23.02	23.80
			1	13	23.10	23.48	23.03	23.80



		1	24	23.07	23.49	23.05	23.80
		12	0	21.98	21.98	21.90	22.80
		12	6	21.99	21.99	21.87	22.80
		12	13	21.97	22.02	21.88	22.80
		25	0	21.95	21.94	21.78	22.80
	64QAM	1	0	21.65	21.81	21.73	22.80
		1	13	21.90	21.84	21.72	22.80
		1	24	21.86	21.78	21.72	22.80
		12	0	20.89	20.92	20.87	21.80
		12	6	20.84	20.73	20.96	21.80
		12	13	20.96	20.82	20.89	21.80
		25	0	20.80	20.94	20.88	21.80
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
23780/709					23790/710	23800/711	
10MHz	QPSK	1	0	<b>23.84</b>	23.78	<b>23.82</b>	24.80
		1	25	23.82	<b>23.81</b>	23.81	24.80
		1	49	23.73	23.67	23.75	24.80
		25	0	22.83	22.84	22.85	23.80
		25	13	<b>22.96</b>	22.84	<b>22.90</b>	23.80
		25	25	22.89	<b>22.94</b>	<b>22.90</b>	23.80
		50	0	<b>22.92</b>	22.84	22.84	23.80
	16QAM	1	0	22.81	23.21	22.91	23.80
		1	25	22.74	23.25	22.83	23.80
		1	49	22.76	23.23	22.75	23.80
		25	0	21.88	21.89	21.92	22.80
		25	13	21.97	21.87	22.05	22.80
		25	25	21.95	21.92	21.96	22.80
		50	0	21.89	21.86	21.86	22.80
	64QAM	1	0	21.89	21.87	21.66	22.80
		1	25	21.84	21.74	21.91	22.80
		1	49	21.78	21.93	21.82	22.80
		25	0	20.96	20.77	20.79	21.80
		25	13	20.83	20.78	20.73	21.80
		25	25	20.79	20.86	20.87	21.80
		50	0	20.92	20.87	20.79	21.80

LTE FDD Band 17 ANT1 Level 2&3				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				23755/706.5	23790/710	23825/713.5	
5MHz	QPSK	1	0	21.97	22.08	22.13	22.30
		1	13	22.09	22.06	22.14	22.30
		1	24	21.90	21.89	22.00	22.30



		12	0	22.06	22.21	22.13	22.30
		12	6	22.24	22.12	22.02	22.30
		12	13	22.05	22.14	22.09	22.30
		25	0	22.23	22.10	22.08	22.30
	16QAM	1	0	22.04	22.01	22.14	22.30
		1	13	22.23	21.76	21.97	22.30
		1	24	21.87	21.88	22.13	22.30
		12	0	22.12	22.08	22.20	22.30
		12	6	22.21	22.07	22.21	22.30
		12	13	22.17	22.21	21.94	22.30
	64QAM	25	0	22.15	22.10	22.19	22.30
		1	0	21.92	22.02	22.12	22.30
		1	13	22.27	22.14	22.06	22.30
		1	24	22.05	22.04	22.02	22.30
		12	0	21.02	20.60	20.71	21.80
		12	6	20.65	20.85	20.82	21.80
		12	13	20.69	20.96	21.05	21.80
25	0	21.04	20.95	20.90	21.80		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				23780/709	23790/710	23800/711	
10MHz	QPSK	1	0	22.04	<b>22.00</b>	22.07	22.30
		1	25	<b>22.07</b>	<b>22.00</b>	<b>22.08</b>	22.30
		1	49	21.99	<b>22.00</b>	22.06	22.30
		25	0	22.10	22.09	22.09	22.30
		25	13	<b>22.20</b>	22.16	22.12	22.30
		25	25	22.19	<b>22.19</b>	<b>22.18</b>	22.30
		50	0	<b>22.19</b>	22.11	22.15	22.30
	16QAM	1	0	22.15	22.11	22.22	22.30
		1	25	22.18	21.85	22.04	22.30
		1	49	21.92	22.02	22.21	22.30
		25	0	22.10	22.00	22.22	22.30
		25	13	22.12	22.22	22.14	22.30
		25	25	22.17	22.15	22.06	22.30
		50	0	22.07	22.02	22.22	22.30
	64QAM	1	0	22.03	21.88	22.11	22.30
		1	25	22.21	22.10	22.13	22.30
		1	49	22.03	21.89	21.95	22.30
		25	0	20.98	20.70	20.73	21.80
		25	13	20.69	20.81	20.84	21.80
		25	25	20.74	20.83	20.97	21.80
		50	0	21.03	20.87	20.90	21.80



LTE FDD Band 26 Full Power ANT0&1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				26697/814.7	26865/831.5	27033/848.3	
1.4MHz	QPSK	1	0	23.95	23.86	23.78	24.80
		1	2	24.01	23.94	23.76	24.80
		1	5	23.90	23.88	23.72	24.80
		3	0	23.98	23.86	23.77	24.80
		3	2	23.99	23.94	23.73	24.80
		3	3	23.92	23.86	23.70	24.80
		6	0	23.02	22.90	22.78	23.80
	16QAM	1	0	23.45	22.94	22.97	23.80
		1	2	23.47	23.05	22.94	23.80
		1	5	23.38	22.99	22.92	23.80
		3	0	23.22	23.10	22.90	23.80
		3	2	23.22	23.20	22.87	23.80
		3	3	23.20	23.11	22.82	23.80
		6	0	21.98	22.12	21.93	22.80
	64QAM	1	0	21.97	21.80	21.76	22.80
		1	2	21.91	22.04	21.88	22.80
		1	5	22.03	21.80	21.87	22.80
		3	0	22.13	21.90	21.66	22.80
		3	2	21.91	22.00	21.75	22.80
		3	3	21.83	21.84	21.75	22.80
		6	0	20.92	20.86	20.85	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				26705/815.5	26865/831.5	27025/847.5	
3MHz	QPSK	1	0	24.09	23.93	23.89	24.80
		1	7	24.10	24.05	23.91	24.80
		1	14	23.95	23.97	23.83	24.80
		8	0	23.15	23.04	22.93	23.80
		8	4	23.09	23.05	22.90	23.80
		8	7	23.07	23.02	22.84	23.80
		15	0	23.08	23.02	22.93	23.80
	16QAM	1	0	23.08	23.39	22.96	23.80
		1	7	23.09	23.45	22.96	23.80
		1	14	22.94	23.44	22.86	23.80
		8	0	22.22	22.13	21.96	22.80
		8	4	22.24	22.18	21.96	22.80
		8	7	22.20	22.12	21.93	22.80
		15	0	22.14	22.05	21.86	22.80
	64QAM	1	0	22.18	22.03	21.76	22.80
1		7	22.22	22.15	21.94	22.80	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				26715/816.5	26865/831.5	27015/846.5		
		1	14	22.04	21.96	21.96	22.80	
		8	0	21.01	21.14	20.84	21.80	
		8	4	21.00	21.10	20.75	21.80	
		8	7	21.19	20.91	20.73	21.80	
		15	0	21.19	21.08	20.94	21.80	
5MHz	QPSK	1	0	24.13	23.97	23.97	24.80	
		1	13	24.04	24.03	23.94	24.80	
		1	24	23.92	23.99	23.84	24.80	
		12	0	23.19	23.01	22.98	23.80	
		12	6	23.12	23.04	22.95	23.80	
		12	13	23.01	23.02	22.86	23.80	
		25	0	23.08	22.99	22.89	23.80	
	16QAM	1	0	23.34	23.58	23.15	23.80	
		1	13	23.32	23.65	23.13	23.80	
		1	24	23.16	23.56	23.12	23.80	
		12	0	22.26	22.17	22.05	22.80	
		12	6	22.18	22.24	22.02	22.80	
		12	13	22.12	22.15	21.94	22.80	
		25	0	22.17	22.08	21.89	22.80	
	64QAM	1	0	22.07	22.01	22.01	22.80	
		1	13	21.96	22.11	21.80	22.80	
		1	24	21.80	22.11	21.78	22.80	
		12	0	21.30	20.90	20.85	21.80	
		12	6	21.00	20.96	21.00	21.80	
		12	13	21.16	20.97	20.79	21.80	
		25	0	21.23	20.96	20.96	21.80	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					26750/820	26865/831.5	26990/844	
	10MHz	QPSK	1	0	24.11	24.02	23.91	24.80
			1	25	23.95	23.96	23.87	24.80
			1	49	23.91	23.88	23.88	24.80
			25	0	23.13	23.01	22.91	23.80
			25	13	23.11	23.00	22.94	23.80
25			25	23.02	23.00	22.89	23.80	
50			0	23.08	22.98	22.89	23.80	
16QAM		1	0	23.10	23.46	23.00	23.80	
		1	25	22.92	23.36	22.89	23.80	
		1	49	22.88	23.35	22.83	23.80	
		25	0	22.17	22.11	21.99	22.80	
		25	13	22.06	22.06	21.98	22.80	
		25	25	22.06	22.03	22.01	22.80	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				26775/822.5	26865/831.5	26965/841.5	
	64QAM	50	0	22.05	22.02	21.90	22.80
		1	0	21.99	21.92	21.91	22.80
		1	25	22.14	21.92	21.91	22.80
		1	49	21.94	22.04	21.82	22.80
		25	0	21.22	21.09	20.82	21.80
		25	13	21.01	21.09	20.84	21.80
		25	25	21.15	21.00	20.98	21.80
		50	0	21.19	20.91	20.84	21.80
15MHz	QPSK	1	0	<b>23.98</b>	<b>23.92</b>	<b>23.86</b>	24.80
		1	38	23.86	23.86	23.74	24.80
		1	74	23.88	23.79	23.70	24.80
		36	0	<b>23.03</b>	<b>23.02</b>	22.88	23.80
		36	18	<b>23.03</b>	22.97	<b>22.93</b>	23.80
		36	39	22.93	22.97	22.91	23.80
		75	0	<b>23.01</b>	22.93	22.90	23.80
	16QAM	1	0	23.02	23.40	23.37	23.80
		1	38	22.87	23.29	23.30	23.80
		1	74	22.94	23.28	22.56	23.80
		36	0	22.02	22.05	21.89	22.80
		36	18	22.05	22.01	21.91	22.80
		36	39	21.96	21.99	21.85	22.80
		75	0	22.02	21.98	21.90	22.80
	64QAM	1	0	22.24	22.04	21.74	22.80
		1	38	22.10	22.00	22.05	22.80
		1	74	22.03	21.91	21.73	22.80
		36	0	21.06	20.99	20.84	21.80
		36	18	20.96	21.16	20.89	21.80
		36	39	21.02	21.07	20.83	21.80
		75	0	21.22	20.97	20.95	21.80

LTE TDD Band 38 Full Power ANT0&1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	23.97	24.03	24.21	24.50
		1	13	24.02	24.02	24.11	24.50
		1	24	23.95	24.00	24.03	24.50
		12	0	23.11	23.05	23.08	23.50
		12	6	23.07	23.15	23.10	23.50
		12	13	23.05	23.06	23.14	23.50
		25	0	23.13	23.08	23.10	23.50





	16QAM	1	0	23.23	23.23	23.53	24.00
		1	13	23.21	23.33	23.53	24.00
		1	24	23.19	23.24	23.51	24.00
		12	0	22.17	22.08	22.29	23.00
		12	6	22.19	22.09	22.27	23.00
		12	13	22.10	22.13	22.31	23.00
		25	0	22.11	22.19	22.17	23.00
	64QAM	1	0	21.95	22.10	22.26	23.00
		1	13	21.97	21.93	22.24	23.00
		1	24	21.94	21.88	22.02	23.00
		12	0	21.12	21.06	21.23	22.00
		12	6	21.19	21.16	21.18	22.00
		12	13	21.02	21.03	20.99	22.00
		25	0	21.11	21.02	21.04	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	24.24	24.12	24.20	24.50
		1	25	24.07	24.01	24.06	24.50
		1	49	24.10	24.00	23.95	24.50
		25	0	23.18	23.11	23.13	23.50
		25	13	23.17	23.16	23.10	23.50
		25	25	23.16	23.11	23.18	23.50
		50	0	23.21	23.19	23.14	23.50
	16QAM	1	0	23.52	23.35	23.54	24.00
		1	25	23.34	23.34	23.62	24.00
		1	49	23.50	23.28	23.45	24.00
		25	0	22.18	22.16	22.19	23.00
		25	13	22.19	22.22	22.18	23.00
		25	25	22.22	22.18	22.20	23.00
		50	0	22.21	22.14	22.18	23.00
	64QAM	1	0	22.01	22.13	22.36	23.00
		1	25	22.15	21.98	22.25	23.00
		1	49	21.94	22.00	22.03	23.00
		25	0	21.23	20.90	21.17	22.00
		25	13	21.09	21.07	20.99	22.00
		25	25	21.04	21.13	21.13	22.00
		50	0	21.09	21.08	21.25	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	24.01	24.09	24.18	24.50
		1	38	23.98	23.98	24.02	24.50
		1	74	23.87	23.99	23.89	24.50
		36	0	23.16	23.18	23.12	23.50



		36	18	23.17	23.15	23.11	23.50	
		36	39	23.15	23.11	23.13	23.50	
		75	0	23.09	23.14	23.08	23.50	
	16QAM		1	0	23.27	23.48	23.52	24.00
			1	38	23.24	23.43	23.40	24.00
			1	74	23.20	23.35	23.27	24.00
			36	0	22.19	22.18	22.19	23.00
			36	18	22.11	22.15	22.09	23.00
			36	39	22.10	22.16	22.12	23.00
			75	0	22.20	22.16	22.10	23.00
	64QAM		1	0	21.87	22.10	22.13	23.00
			1	38	21.98	21.94	22.11	23.00
			1	74	22.02	22.07	22.09	23.00
			36	0	21.10	21.02	21.21	22.00
			36	18	21.21	21.26	21.05	22.00
36			39	20.90	20.96	21.24	22.00	
75			0	21.14	20.98	21.02	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				37850/2580	38000/2595	38150/2610		
20MHz	QPSK	1	0	<b>24.17</b>	<b>24.14</b>	<b>24.14</b>	24.50	
		1	50	24.07	24.00	23.98	24.50	
		1	99	24.01	23.94	23.84	24.50	
		50	0	23.09	23.09	<b>23.14</b>	23.50	
		50	25	<b>23.14</b>	<b>23.18</b>	23.10	23.50	
		50	50	23.08	23.11	23.10	23.50	
		100	0	23.08	23.11	<b>23.14</b>	23.50	
	16QAM		1	0	23.41	23.38	23.29	24.00
			1	50	23.36	23.37	23.20	24.00
			1	99	23.39	23.27	23.11	24.00
			50	0	22.13	22.13	22.18	23.00
			50	25	22.21	22.24	22.18	23.00
			50	50	22.18	22.10	22.20	23.00
			100	0	22.15	22.15	22.17	23.00
	64QAM		1	0	21.89	21.93	22.27	23.00
			1	50	22.17	22.04	22.04	23.00
			1	99	21.89	22.04	22.09	23.00
			50	0	21.13	21.18	21.02	22.00
			50	25	20.94	21.20	21.12	22.00
			50	50	21.20	21.01	21.12	22.00
			100	0	21.20	21.01	21.21	22.00



LTE TDD Band 38 ANT1 Level 1&2&3				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	20.98	21.15	20.95	22.00
		1	13	21.07	20.94	21.01	22.00
		1	24	20.91	21.18	21.14	22.00
		12	0	21.00	20.93	21.11	22.00
		12	6	21.02	20.93	20.92	22.00
		12	13	21.14	21.07	21.20	22.00
		25	0	20.92	20.94	21.02	22.00
	16QAM	1	0	20.94	21.18	20.99	22.00
		1	13	21.02	21.06	21.13	22.00
		1	24	21.11	21.03	20.93	22.00
		12	0	20.98	21.08	21.14	22.00
		12	6	21.07	20.97	21.08	22.00
		12	13	21.17	21.14	21.07	22.00
		25	0	21.05	21.15	21.16	22.00
	64QAM	1	0	20.91	20.96	20.97	22.00
		1	13	20.95	21.06	21.09	22.00
		1	24	21.14	21.03	20.92	22.00
		12	0	21.01	21.06	21.00	22.00
		12	6	21.16	20.95	21.20	22.00
		12	13	21.16	20.95	21.14	22.00
		25	0	21.01	21.16	21.17	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	20.94	21.01	20.92	22.00
		1	25	21.12	21.00	21.12	22.00
		1	49	21.17	21.00	21.18	22.00
		25	0	21.03	20.96	20.92	22.00
		25	13	20.97	21.16	21.10	22.00
		25	25	21.07	21.18	21.03	22.00
		50	0	21.16	21.02	21.10	22.00
	16QAM	1	0	21.20	21.11	21.08	22.00
		1	25	21.05	21.17	21.01	22.00
		1	49	21.13	21.12	21.10	22.00
		25	0	20.94	20.96	21.09	22.00
		25	13	21.03	21.20	21.15	22.00
		25	25	21.00	21.06	21.15	22.00
		50	0	21.13	21.13	20.95	22.00
	64QAM	1	0	21.07	20.96	21.06	22.00
		1	25	20.96	21.08	21.04	22.00



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				37825/2577.5	38000/2595	38175/2612.5		
		1	49	21.11	21.04	21.07	22.00	
		25	0	21.05	20.94	21.14	22.00	
		25	13	21.00	20.99	21.15	22.00	
		25	25	20.92	21.15	21.19	22.00	
		50	0	21.20	21.02	20.94	22.00	
15MHz	QPSK	1	0	21.11	21.14	21.06	22.00	
		1	38	20.97	21.14	21.17	22.00	
		1	74	21.12	20.90	21.09	22.00	
		36	0	21.16	20.95	21.02	22.00	
		36	18	21.12	21.09	21.11	22.00	
		36	39	21.00	21.07	20.97	22.00	
		75	0	21.05	20.94	21.18	22.00	
	16QAM	1	0	21.11	21.20	21.07	22.00	
		1	38	20.93	21.14	21.20	22.00	
		1	74	21.06	21.09	21.17	22.00	
		36	0	21.16	21.00	21.13	22.00	
		36	18	21.18	20.97	20.98	22.00	
		36	39	20.91	20.91	21.04	22.00	
		75	0	21.20	21.03	21.15	22.00	
	64QAM	1	0	21.18	21.12	21.15	22.00	
		1	38	21.18	21.06	21.06	22.00	
		1	74	21.02	21.14	21.11	22.00	
		36	0	20.91	21.01	21.12	22.00	
		36	18	21.07	21.13	20.93	22.00	
		36	39	21.20	21.15	21.03	22.00	
		75	0	20.94	21.02	21.14	22.00	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					37850/2580	38000/2595	38150/2610	
	20MHz	QPSK	1	0	20.96	<b>21.20</b>	<b>21.11</b>	22.00
			1	50	<b>21.17</b>	21.10	20.99	22.00
			1	99	21.03	21.03	21.10	22.00
			50	0	<b>21.11</b>	<b>21.10</b>	<b>21.16</b>	22.00
			50	25	20.99	21.05	21.09	22.00
50			50	20.96	20.98	20.92	22.00	
100			0	21.12	<b>21.20</b>	21.00	22.00	
16QAM		1	0	20.93	21.03	21.09	22.00	
		1	50	21.17	20.93	20.96	22.00	
		1	99	21.05	20.99	21.02	22.00	
		50	0	21.03	21.00	21.08	22.00	
		50	25	21.04	21.10	20.98	22.00	
		50	50	20.98	21.03	21.02	22.00	



		100	0	21.13	20.97	21.14	22.00
	64QAM	1	0	20.96	20.90	21.15	22.00
		1	50	20.93	21.19	21.02	22.00
		1	99	20.99	21.12	20.99	22.00
		50	0	20.96	20.90	20.95	22.00
		50	25	21.13	20.99	21.18	22.00
		50	50	21.12	21.09	21.10	22.00
		100	0	21.18	21.03	21.06	22.00



LTE TDD Band 41 Full Power ANT0&1				Conducted Power(dBm)					Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					
				39675/2 498.5	40148/2 545.8	40620/2 593	41093/2 640.3	41565/2 687.5	
5MHz	QPSK	1	0	24.19	24.28	24.26	24.28	24.07	24.50
		1	13	24.10	24.33	24.29	24.30	24.13	24.50
		1	24	24.08	24.21	24.22	24.09	24.05	24.50
		12	0	23.19	23.29	23.24	23.38	23.02	23.50
		12	6	23.14	23.17	23.32	23.22	23.01	23.50
		12	13	23.14	23.30	23.20	23.19	23.09	23.50
		25	0	23.12	23.13	23.26	23.36	23.01	23.50
	16QAM	1	0	23.43	23.41	23.46	23.58	23.41	24.00
		1	13	23.34	23.65	23.58	23.63	23.51	24.00
		1	24	23.30	23.36	23.50	23.47	23.63	24.00
		12	0	22.21	22.30	22.22	22.31	22.12	23.00
		12	6	22.19	22.20	22.29	22.22	22.13	23.00
		12	13	22.19	22.12	22.22	22.23	22.14	23.00
		25	0	22.18	22.28	22.38	22.49	22.04	23.00
	64QAM	1	0	22.37	22.34	22.23	22.33	22.17	23.00
		1	13	22.23	22.33	22.16	22.32	22.19	23.00
		1	24	22.12	22.04	22.21	22.08	22.20	23.00
		12	0	21.40	21.51	21.47	21.27	21.46	22.00
		12	6	21.13	21.08	21.19	21.16	21.11	22.00
		12	13	21.11	21.04	21.25	21.15	21.25	22.00
		25	0	21.43	21.39	21.46	21.33	21.30	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
				39700/2 501	40160/2 547	40620/2 593	41080/2 639	41540/2 685	
10MHz	QPSK	1	0	24.31	24.33	24.20	24.14	24.10	24.50
		1	25	24.07	24.17	24.11	24.32	24.08	24.50
		1	49	24.03	24.15	24.14	24.21	23.98	24.50
		25	0	23.13	23.25	23.22	23.10	22.92	23.50
		25	13	23.15	23.41	23.22	23.38	22.93	23.50
		25	25	23.04	23.25	23.16	23.18	23.01	23.50
		50	0	23.08	23.33	23.24	23.15	23.01	23.50
	16QAM	1	0	23.33	23.48	23.59	23.54	23.38	24.00
		1	25	23.33	23.44	23.69	23.67	23.28	24.00
		1	49	23.35	23.56	23.63	23.60	23.39	24.00
		25	0	22.13	22.12	22.32	22.14	22.05	23.00
		25	13	22.11	22.20	22.29	22.26	22.09	23.00
		25	25	22.14	22.29	22.22	22.36	22.11	23.00



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit	
				39725/2 503.5	40173/2 548.3	40620/2 593	41068/2 637.8	41515/2 682.5		
64QAM	64QAM	50	0	22.12	22.45	22.31	22.42	22.08	23.00	
		1	0	22.43	22.25	22.12	22.20	22.11	23.00	
		1	25	22.14	22.30	22.15	22.34	22.32	23.00	
		1	49	22.18	21.90	22.18	22.03	22.05	23.00	
		25	0	21.44	21.37	21.60	21.27	21.56	22.00	
		25	13	21.09	21.11	21.32	21.11	21.00	22.00	
		25	25	21.24	21.19	21.11	21.08	21.17	22.00	
		50	0	21.47	21.54	21.54	21.35	21.42	22.00	
15MHz	QPSK	1	0	24.15	24.18	24.15	24.27	24.00	24.50	
		1	38	23.92	24.16	24.05	24.21	23.89	24.50	
		1	74	23.86	24.29	23.99	24.12	24.03	24.50	
		36	0	23.15	23.30	23.14	23.17	22.90	23.50	
		36	18	23.01	23.25	23.14	23.21	23.02	23.50	
		36	39	23.05	23.23	23.13	23.07	22.96	23.50	
		75	0	23.01	23.15	23.20	23.34	22.97	23.50	
	16QAM	16QAM	1	0	23.31	23.36	23.50	23.56	23.26	24.00
			1	38	23.22	23.46	23.54	23.45	23.27	24.00
			1	74	23.25	23.38	23.56	23.41	23.32	24.00
			36	0	22.11	22.31	22.07	22.12	21.94	23.00
			36	18	22.07	22.34	22.23	22.20	22.05	23.00
			36	39	22.06	22.08	22.17	22.36	22.06	23.00
			75	0	22.16	22.41	22.23	22.26	22.03	23.00
	64QAM	64QAM	1	0	22.27	22.27	22.18	22.29	22.32	23.00
			1	38	22.08	22.27	22.25	22.35	22.12	23.00
			1	74	22.24	22.18	22.17	22.05	22.34	23.00
			36	0	21.35	21.39	21.43	21.21	21.45	22.00
			36	18	21.14	21.02	21.08	21.04	21.10	22.00
			36	39	21.15	20.97	21.40	21.09	21.11	22.00
			75	0	21.33	21.45	21.44	21.45	21.15	22.00
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit (dBm)
					39750/2 506	40185/2 549.5	40620/2 593	41055/2 636.5	41490/2 680	
	20MHz	QPSK	1	0	<b>24.20</b>	<b>24.36</b>	<b>24.29</b>	24.35	<b>24.09</b>	24.50
1			50	24.02	24.34	24.01	<b>24.43</b>	23.94	24.50	
1			99	23.90	24.15	24.04	24.19	23.99	24.50	
50			0	23.10	23.13	23.16	23.22	22.94	23.50	
50			25	<b>23.18</b>	<b>23.31</b>	<b>23.17</b>	<b>23.46</b>	<b>23.00</b>	23.50	
50			50	23.04	23.14	23.12	23.28	<b>23.00</b>	23.50	
100			0	23.07	23.14	23.23	<b>23.28</b>	<b>22.97</b>	23.50	
16QAM		1	0	23.36	23.61	23.32	23.52	23.30	24.00	



		1	50	23.25	23.43	23.20	23.70	23.32	24.00
		1	99	23.31	23.62	23.26	23.55	23.41	24.00
		50	0	22.09	22.10	22.20	22.25	21.96	23.00
		50	25	22.13	22.20	22.19	22.14	22.07	23.00
		50	50	22.09	22.34	22.23	22.25	22.04	23.00
		100	0	22.08	22.31	22.18	22.33	22.02	23.00
	64QAM	1	0	22.48	22.19	22.08	22.18	22.25	23.00
		1	50	22.16	22.45	22.04	22.17	22.20	23.00
		1	99	22.00	21.90	22.06	22.08	22.27	23.00
		50	0	21.42	21.44	21.55	21.25	21.55	22.00
		50	25	21.05	20.98	21.09	21.10	20.97	22.00
		50	50	21.03	20.96	21.36	21.17	21.26	22.00
		100	0	21.52	21.43	21.33	21.25	21.36	22.00

LTE TDD Band 41 ANT1 Level 1				Conducted Power(dBm)					Tune-up Limit	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)						
				39675/2 498.5	40148/2 545.8	40620/2 593	41093/2 640.3	41565/2 687.5		
5MHz	QPSK	1	0	20.90	20.90	20.83	20.72	20.42	21.50	
		1	13	20.89	21.00	20.95	20.62	20.68	21.50	
		1	24	20.85	20.98	20.90	20.80	20.57	21.50	
		12	0	20.93	20.96	20.96	20.88	20.73	21.50	
		12	6	20.94	21.00	21.04	20.77	20.84	21.50	
		12	13	20.96	21.03	21.00	21.04	20.92	21.50	
		25	0	20.91	21.00	20.90	20.79	21.03	21.50	
	16QAM	1	0	20.58	21.22	20.97	20.77	20.66	21.50	
		1	13	20.69	20.63	21.00	20.92	20.67	21.50	
		1	24	20.53	20.84	20.69	20.78	20.70	21.50	
		12	0	20.70	20.81	20.88	20.91	20.76	21.50	
		12	6	20.78	20.84	21.14	21.02	20.97	21.50	
		12	13	20.79	21.04	21.18	20.94	20.74	21.50	
		25	0	20.88	21.00	20.79	20.90	20.90	21.50	
	64QAM	1	0	20.73	21.22	21.12	20.64	20.76	21.50	
		1	13	20.59	20.92	21.13	20.78	20.64	21.50	
		1	24	20.71	21.03	21.16	20.86	20.63	21.50	
		12	0	20.70	20.86	21.06	20.80	20.89	21.50	
		12	6	21.00	20.97	20.97	20.79	21.02	21.50	
		12	13	21.13	20.75	20.86	21.12	20.81	21.50	
		25	0	20.80	20.92	20.99	20.93	21.18	21.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
					39700/2 501	40160/2 547	40620/2 593	41080/2 639	41540/2 685	





10MHz	QPSK	1	0	20.77	20.91	20.99	20.51	20.56	21.50
		1	25	20.80	20.85	20.95	20.73	20.64	21.50
		1	49	20.79	20.87	20.97	20.83	20.55	21.50
		25	0	20.92	20.99	20.93	20.70	20.89	21.50
		25	13	20.93	21.08	20.95	20.80	20.91	21.50
		25	25	20.88	21.00	21.00	20.99	20.66	21.50
		50	0	20.90	21.00	20.93	20.95	20.87	21.50
	16QAM	1	0	20.63	21.16	21.00	20.68	20.80	21.50
		1	25	20.76	20.79	20.92	20.72	20.69	21.50
		1	49	20.59	20.98	20.96	20.78	20.52	21.50
		25	0	20.79	20.82	21.05	20.85	20.91	21.50
		25	13	20.84	21.03	21.09	20.85	20.93	21.50
		25	25	20.69	21.02	20.91	20.82	21.00	21.50
		50	0	20.81	20.97	20.80	20.82	20.98	21.50
	64QAM	1	0	20.87	21.22	21.23	20.68	20.82	21.50
		1	25	20.78	20.90	21.08	20.71	20.72	21.50
		1	49	20.58	20.95	21.17	20.93	20.60	21.50
		25	0	20.88	20.98	20.92	20.79	20.86	21.50
		25	13	20.97	20.90	20.97	20.72	20.94	21.50
		25	25	20.93	20.90	20.97	21.08	20.97	21.50
		50	0	20.90	20.98	20.97	20.84	21.16	21.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
				39725/2 503.5	40173/2 548.3	40620/2 593	41068/2 637.8	41515/2 682.5	
15MHz	QPSK	1	0	20.71	20.88	20.95	20.77	20.55	21.50
		1	38	20.70	20.79	20.86	20.59	20.50	21.50
		1	74	20.65	20.89	20.92	20.73	20.60	21.50
		36	0	20.81	20.95	20.89	20.83	20.93	21.50
		36	18	20.86	20.98	20.88	20.87	20.71	21.50
		36	39	20.83	20.96	20.94	21.11	20.80	21.50
		75	0	20.85	21.00	20.86	20.96	21.04	21.50
	16QAM	1	0	20.75	21.17	21.00	20.66	20.75	21.50
		1	38	20.72	20.72	20.72	20.69	20.65	21.50
		1	74	20.72	20.76	20.77	20.77	20.64	21.50
		36	0	20.97	20.70	21.08	20.88	20.88	21.50
		36	18	20.92	20.84	21.13	20.81	20.84	21.50
		36	39	20.77	20.97	21.02	21.00	20.88	21.50
		75	0	20.85	21.12	20.89	20.78	20.78	21.50
	64QAM	1	0	20.67	21.08	21.10	20.72	20.79	21.50
		1	38	20.60	20.84	20.90	20.89	20.60	21.50
		1	74	20.68	20.93	20.96	20.85	20.68	21.50
		36	0	20.88	20.87	21.00	20.78	20.90	21.50
		36	18	20.96	20.79	20.90	20.94	21.01	21.50



Bandwidth	Modulation	36	39	20.97	20.90	20.93	20.98	21.04	21.50
		75	0	20.75	21.13	20.96	20.96	20.95	21.50
		RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit (dBm)
				39750/2 506	40185/2 549.5	40620/2 593	41055/2 636.5	41490/2 680	
20MHz	QPSK	1	0	20.71	<b>21.01</b>	<b>20.99</b>	20.65	20.57	21.50
		1	50	20.69	20.78	20.89	20.69	20.64	21.50
		1	99	<b>20.73</b>	20.89	20.94	<b>20.76</b>	<b>20.66</b>	21.50
		50	0	<b>20.92</b>	20.93	20.93	20.77	<b>20.87</b>	21.50
		50	25	20.90	<b>20.99</b>	<b>20.99</b>	20.85	20.85	21.50
		50	50	20.87	20.96	20.95	<b>21.02</b>	20.80	21.50
		100	0	20.86	<b>20.98</b>	<b>20.98</b>	20.88	<b>21.00</b>	21.50
	16QAM	1	0	20.65	21.08	21.09	20.76	20.69	21.50
		1	50	20.62	20.75	20.87	20.80	20.62	21.50
		1	99	20.65	20.87	20.81	20.85	20.65	21.50
		50	0	20.83	20.79	20.97	20.82	20.76	21.50
		50	25	20.81	20.92	21.06	20.93	20.90	21.50
		50	50	20.77	21.11	21.05	20.97	20.89	21.50
		100	0	20.76	21.05	20.90	20.78	20.89	21.50
	64QAM	1	0	20.74	21.08	21.10	20.66	20.68	21.50
		1	50	20.65	20.79	21.00	20.78	20.71	21.50
		1	99	20.70	20.97	21.07	20.90	20.60	21.50
		50	0	20.80	20.96	21.03	20.75	20.78	21.50
		50	25	20.94	20.90	21.01	20.79	20.96	21.50
		50	50	21.00	20.88	20.89	20.97	20.95	21.50
		100	0	20.88	21.07	20.85	20.81	21.04	21.50

LTE TDD Band 41 ANT1 Level 2&3				Conducted Power(dBm)					Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					
				39675/2 498.5	40148/2 545.8	40620/2 593	41093/2 640.3	41565/2 687.5	
5MHz	QPSK	1	0	19.24	19.47	19.47	19.50	19.37	20.00
		1	13	19.25	19.08	19.41	19.23	19.45	20.00
		1	24	19.05	19.31	19.38	19.26	19.53	20.00
		12	0	19.25	19.48	19.19	19.22	19.19	20.00
		12	6	19.39	19.41	19.52	19.42	19.37	20.00
		12	13	19.41	19.42	19.46	19.39	19.32	20.00
		25	0	19.18	19.27	19.31	19.45	19.31	20.00
	16QAM	1	0	18.93	19.46	19.47	19.36	19.37	20.00
		1	13	19.15	18.85	19.18	19.22	19.35	20.00
		1	24	19.13	19.04	19.32	19.27	19.42	20.00



		12	0	19.31	19.23	19.51	19.21	19.14	20.00
		12	6	19.53	19.37	19.46	19.26	19.40	20.00
		12	13	19.06	19.57	19.36	19.62	19.34	20.00
		25	0	19.46	19.21	19.50	19.49	19.58	20.00
	64QAM	1	0	19.00	19.39	19.50	19.13	19.25	20.00
		1	13	19.28	19.16	19.41	19.01	19.10	20.00
		1	24	18.88	19.25	19.34	19.24	19.57	20.00
		12	0	19.10	19.42	19.43	19.21	19.48	20.00
		12	6	19.41	19.35	19.30	19.40	19.38	20.00
		12	13	19.31	19.29	19.41	19.37	19.29	20.00
25	0	19.34	19.40	19.36	19.59	19.37	20.00		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
				39700/2 501	40160/2 547	40620/2 593	41080/2 639	41540/2 685	
10MHz	QPSK	1	0	19.03	19.36	19.29	19.38	19.46	20.00
		1	25	19.03	19.20	19.28	19.34	19.17	20.00
		1	49	19.09	19.16	19.40	19.42	19.30	20.00
		25	0	19.32	19.20	19.20	19.27	19.29	20.00
		25	13	19.22	19.53	19.36	19.34	19.41	20.00
		25	25	19.27	19.35	19.26	19.49	19.26	20.00
		50	0	19.31	19.28	19.45	19.57	19.39	20.00
	16QAM	1	0	18.97	19.52	19.69	19.36	19.38	20.00
		1	25	19.09	19.05	19.33	19.06	19.22	20.00
		1	49	19.09	19.04	19.28	19.49	19.31	20.00
		25	0	19.58	19.32	19.22	19.31	19.11	20.00
		25	13	19.41	19.31	19.56	19.28	19.25	20.00
		25	25	19.23	19.63	19.54	19.50	19.40	20.00
		50	0	19.55	19.23	19.51	19.56	19.53	20.00
	64QAM	1	0	19.01	19.46	19.25	19.15	19.15	20.00
		1	25	19.35	19.27	19.30	19.05	19.30	20.00
		1	49	18.86	19.32	19.27	19.13	19.53	20.00
		25	0	19.24	19.33	19.34	19.27	19.38	20.00
		25	13	19.24	19.13	19.34	19.22	19.33	20.00
		25	25	19.28	19.11	19.22	19.49	19.29	20.00
		50	0	19.53	19.33	19.17	19.33	19.29	20.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
				39725/2 503.5	40173/2 548.3	40620/2 593	41068/2 637.8	41515/2 682.5	
15MHz	QPSK	1	0	19.01	19.52	19.46	19.29	19.41	20.00
		1	38	19.10	19.17	19.22	19.24	19.21	20.00
		1	74	19.28	19.23	19.29	19.37	19.40	20.00
		36	0	19.45	19.45	19.28	19.43	19.32	20.00
		36	18	19.47	19.47	19.39	19.34	19.36	20.00



		36	39	19.38	19.31	19.38	19.36	19.44	20.00
		75	0	19.30	19.33	19.39	19.43	19.33	20.00
	16QAM	1	0	19.19	19.38	19.61	19.29	19.59	20.00
		1	38	19.01	19.03	19.20	19.09	19.12	20.00
		1	74	19.09	19.05	19.49	19.31	19.51	20.00
		36	0	19.47	19.27	19.51	19.17	19.39	20.00
		36	18	19.41	19.22	19.39	19.11	19.25	20.00
		36	39	19.04	19.64	19.32	19.51	19.43	20.00
		75	0	19.39	19.39	19.40	19.50	19.57	20.00
	64QAM	1	0	19.18	19.52	19.28	19.29	19.34	20.00
		1	38	19.15	19.14	19.18	18.93	19.09	20.00
		1	74	18.89	19.29	19.49	19.27	19.47	20.00
		36	0	19.26	19.42	19.43	19.23	19.30	20.00
		36	18	19.13	19.38	19.11	19.41	19.36	20.00
36		39	19.13	19.11	19.16	19.55	19.27	20.00	
75		0	19.50	19.31	19.23	19.51	19.43	20.00	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit (dBm)
				39750/2 506	40185/2 549.5	40620/2 593	41055/2 636.5	41490/2 680	
20MHz	QPSK	1	0	19.13	<b>19.38</b>	<b>19.41</b>	<b>19.38</b>	19.38	20.00
		1	50	<b>19.16</b>	19.14	19.32	19.19	19.31	20.00
		1	99	19.13	19.26	19.34	19.28	<b>19.41</b>	20.00
		50	0	19.31	19.35	19.32	19.30	19.31	20.00
		50	25	<b>19.32</b>	<b>19.39</b>	<b>19.37</b>	19.32	<b>19.39</b>	20.00
		50	50	19.28	19.37	19.36	<b>19.42</b>	19.31	20.00
		100	0	19.32	19.38	19.38	<b>19.43</b>	<b>19.43</b>	20.00
	16QAM	1	0	19.06	19.45	19.56	19.40	19.47	20.00
		1	50	19.12	18.99	19.19	19.20	19.23	20.00
		1	99	19.13	19.15	19.34	19.34	19.46	20.00
		50	0	19.43	19.30	19.37	19.26	19.25	20.00
		50	25	19.43	19.26	19.49	19.23	19.28	20.00
		50	50	19.19	19.49	19.43	19.53	19.33	20.00
		100	0	19.47	19.24	19.44	19.53	19.49	20.00
	64QAM	1	0	19.06	19.37	19.40	19.24	19.30	20.00
		1	50	19.22	19.15	19.33	19.04	19.21	20.00
		1	99	18.98	19.29	19.38	19.20	19.42	20.00
		50	0	19.17	19.29	19.32	19.32	19.35	20.00
		50	25	19.26	19.27	19.23	19.29	19.24	20.00
		50	50	19.23	19.25	19.29	19.48	19.25	20.00
		100	0	19.47	19.37	19.28	19.45	19.38	20.00

LTE FDD Band 66 Full Power ANT0	Conducted Power(dBm)	Tune-up Limit
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Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	24.18	24.05	23.89	24.50
		1	2	24.23	24.12	23.92	24.50
		1	5	24.15	24.08	23.88	24.50
		3	0	24.15	24.10	23.90	24.50
		3	2	24.22	24.10	23.96	24.50
		3	3	24.17	24.05	23.90	24.50
		6	0	23.25	23.12	22.96	23.50
	16QAM	1	0	23.31	23.55	23.02	24.00
		1	2	23.39	23.58	23.07	24.00
		1	5	23.35	23.54	23.03	24.00
		3	0	23.27	23.32	23.18	24.00
		3	2	23.31	23.38	23.18	24.00
		3	3	23.31	23.33	23.11	24.00
		6	0	22.40	22.06	22.14	23.00
	64QAM	1	0	22.05	22.16	21.89	23.00
		1	2	22.29	21.97	21.81	23.00
		1	5	22.11	22.05	22.00	23.00
		3	0	22.12	21.99	22.01	23.00
		3	2	22.26	22.23	22.00	23.00
		3	3	22.18	21.92	22.01	23.00
		6	0	21.29	21.17	20.89	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
3MHz	QPSK	1	0	24.29	24.10	24.02	24.50
		1	7	24.28	24.21	24.04	24.50
		1	14	24.19	24.13	23.93	24.50
		8	0	23.34	23.17	23.06	23.50
		8	4	23.37	23.23	23.09	23.50
		8	7	23.29	23.22	23.04	23.50
		15	0	23.32	23.19	23.10	23.50
	16QAM	1	0	23.23	23.51	23.11	24.00
		1	7	23.29	23.64	23.13	24.00
		1	14	23.21	23.61	23.05	24.00
		8	0	22.44	22.29	22.12	23.00
		8	4	22.46	22.35	22.14	23.00
		8	7	22.41	22.31	22.06	23.00
		15	0	22.38	22.20	22.03	23.00
	64QAM	1	0	22.40	22.23	21.94	23.00
		1	7	22.37	22.31	21.96	23.00
		1	14	22.19	22.20	21.90	23.00
		8	0	21.42	21.21	21.04	22.00



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				131997/1712.5	132322/1745	132647/1777.5		
		8	4	21.30	21.30	21.00	22.00	
		8	7	21.14	21.37	20.90	22.00	
		15	0	21.43	21.32	21.07	22.00	
5MHz	QPSK	1	0	24.26	24.18	24.03	24.50	
		1	13	24.27	24.24	24.09	24.50	
		1	24	24.18	24.17	23.95	24.50	
		12	0	23.33	23.15	23.11	23.50	
		12	6	23.32	23.24	23.06	23.50	
		12	13	23.29	23.22	23.07	23.50	
		25	0	23.32	23.18	23.06	23.50	
	16QAM	1	0	23.50	23.69	23.18	24.00	
		1	13	23.52	23.84	23.27	24.00	
		1	24	23.48	23.77	23.19	24.00	
		12	0	22.44	22.31	22.15	23.00	
		12	6	22.47	22.40	22.20	23.00	
		12	13	22.35	22.39	22.10	23.00	
		25	0	22.37	22.26	22.04	23.00	
	64QAM	1	0	22.16	22.14	22.16	23.00	
		1	13	22.26	22.11	22.15	23.00	
		1	24	22.22	22.05	22.03	23.00	
		12	0	21.28	21.06	21.01	22.00	
		12	6	21.46	21.23	21.06	22.00	
		12	13	21.42	21.35	21.08	22.00	
		25	0	21.47	21.34	21.01	22.00	
					Channel/Frequency (MHz)			Tune-up Limit
					132022/1715	132322/1745	132622/1775	
	10MHz	QPSK	1	0	24.31	24.15	24.13	24.50
1			25	24.19	24.14	24.02	24.50	
1			49	24.21	24.05	23.97	24.50	
25			0	23.38	23.20	23.10	23.50	
25			13	23.35	23.18	23.03	23.50	
25			25	23.27	23.21	23.09	23.50	
50			0	23.32	23.13	23.03	23.50	
16QAM		1	0	23.11	23.61	23.11	24.00	
		1	25	23.16	23.53	23.02	24.00	
		1	49	23.14	23.52	23.01	24.00	
		25	0	22.35	22.24	22.19	23.00	
		25	13	22.32	22.22	22.13	23.00	
		25	25	22.30	22.26	22.17	23.00	
		50	0	22.29	22.19	22.04	23.00	
64QAM		1	0	22.17	22.15	22.12	23.00	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				132047/1717.5	132322/1745	132597/1772.5		
		1	25	22.38	22.35	21.94	23.00	
		1	49	22.19	22.15	21.86	23.00	
		25	0	21.43	21.21	20.94	22.00	
		25	13	21.45	21.37	21.16	22.00	
		25	25	21.19	21.32	20.97	22.00	
		50	0	21.26	21.22	21.20	22.00	
15MHz	QPSK	1	0	24.25	24.11	24.12	24.50	
		1	38	24.21	24.13	23.99	24.50	
		1	74	24.19	24.08	23.92	24.50	
		36	0	23.23	23.17	23.08	23.50	
		36	18	23.34	23.19	23.08	23.50	
		36	39	23.28	23.19	23.07	23.50	
		75	0	23.29	23.15	23.04	23.50	
	16QAM	1	0	23.33	23.57	23.69	24.00	
		1	38	23.27	23.63	23.54	24.00	
		1	74	23.18	23.49	23.48	24.00	
		36	0	22.23	22.23	22.03	23.00	
		36	18	22.38	22.22	22.06	23.00	
		36	39	22.27	22.22	22.06	23.00	
		75	0	22.30	22.17	22.07	23.00	
	64QAM	1	0	22.19	22.25	22.00	23.00	
		1	38	22.14	22.08	22.10	23.00	
		1	74	22.22	22.18	21.96	23.00	
		36	0	21.30	21.24	21.19	22.00	
		36	18	21.47	21.31	21.04	22.00	
		36	39	21.37	21.16	20.91	22.00	
		75	0	21.36	21.08	21.11	22.00	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					132072/1720	132322/1745	132572/1770	
	20MHz	QPSK	1	0	<b>24.29</b>	<b>24.23</b>	<b>24.04</b>	24.50
1			50	24.17	24.17	23.91	24.50	
1			99	24.21	24.15	23.90	24.50	
50			0	23.27	23.14	23.03	23.50	
50			25	<b>23.36</b>	<b>23.18</b>	<b>23.07</b>	23.50	
50			50	23.28	<b>23.18</b>	<b>23.07</b>	23.50	
100			0	<b>23.32</b>	23.13	23.03	23.50	
16QAM		1	0	23.88	23.73	23.60	24.00	
		1	50	23.74	23.59	23.46	24.00	
		1	99	23.71	23.53	23.41	24.00	
		50	0	22.28	22.18	22.03	23.00	
		50	25	22.39	22.19	22.01	23.00	



		50	50	22.30	22.21	22.06	23.00
		100	0	22.37	22.15	22.05	23.00
	64QAM	1	0	22.18	22.03	22.14	23.00
		1	50	22.36	22.09	22.12	23.00
		1	99	22.14	22.06	21.96	23.00
		50	0	21.42	21.31	20.99	22.00
		50	25	21.49	21.15	21.23	22.00
		50	50	21.31	21.13	21.13	22.00
		100	0	21.32	21.06	21.14	22.00

LTE FDD Band 66 ANT1 Level 1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	17.42	17.32	17.23	18.00
		1	2	17.17	17.34	16.92	18.00
		1	5	17.12	17.26	17.26	18.00
		3	0	17.35	17.38	17.32	18.00
		3	2	17.30	17.37	17.34	18.00
		3	3	17.16	17.36	17.20	18.00
		6	0	17.42	17.15	17.18	18.00
	16QAM	1	0	17.33	17.29	17.10	18.00
		1	2	17.20	17.20	16.94	18.00
		1	5	17.03	17.37	17.31	18.00
		3	0	17.29	17.13	17.13	18.00
		3	2	17.48	17.13	17.41	18.00
		3	3	17.30	17.12	17.17	18.00
		6	0	17.43	17.31	17.16	18.00
	64QAM	1	0	17.31	17.44	17.35	18.00
		1	2	17.17	17.26	16.93	18.00
		1	5	17.31	17.44	17.21	18.00
		3	0	17.24	17.36	17.31	18.00
		3	2	17.42	17.25	17.18	18.00
		3	3	17.53	17.34	17.13	18.00
		6	0	17.32	17.05	17.33	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
3MHz	QPSK	1	0	17.25	17.40	17.16	18.00
		1	7	17.23	17.33	17.17	18.00
		1	14	17.18	17.32	17.04	18.00
		8	0	17.32	17.26	17.15	18.00
		8	4	17.41	17.43	17.24	18.00
		8	7	17.39	17.30	17.29	18.00





	16QAM	15	0	17.17	17.09	17.37	18.00
		1	0	17.33	17.34	17.04	18.00
		1	7	17.28	17.35	16.80	18.00
		1	14	17.07	17.23	17.15	18.00
		8	0	17.31	17.10	17.09	18.00
		8	4	17.43	17.25	17.26	18.00
		8	7	17.36	17.28	17.40	18.00
	64QAM	15	0	17.39	17.08	17.21	18.00
		1	0	17.17	17.22	17.14	18.00
		1	7	17.21	17.35	17.18	18.00
		1	14	17.27	17.48	17.10	18.00
		8	0	17.46	17.30	17.48	18.00
		8	4	17.28	17.35	16.93	18.00
		8	7	17.40	17.45	17.09	18.00
15	0	17.35	17.15	17.32	18.00		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	17.44	17.33	17.09	18.00
		1	13	17.14	17.31	17.01	18.00
		1	24	17.37	17.24	17.16	18.00
		12	0	17.31	17.32	17.24	18.00
		12	6	17.45	17.39	17.26	18.00
		12	13	17.42	17.30	17.32	18.00
		25	0	17.33	17.13	17.07	18.00
	16QAM	1	0	17.44	17.27	16.93	18.00
		1	13	17.12	17.20	16.82	18.00
		1	24	17.06	17.43	17.37	18.00
		12	0	17.36	17.31	16.98	18.00
		12	6	17.22	17.26	17.23	18.00
		12	13	17.33	17.16	17.28	18.00
		25	0	17.34	17.24	17.13	18.00
	64QAM	1	0	17.13	17.27	17.37	18.00
		1	13	17.22	17.15	17.17	18.00
		1	24	17.15	17.39	17.05	18.00
		12	0	17.21	17.16	17.48	18.00
		12	6	17.43	17.48	17.08	18.00
		12	13	17.49	17.44	17.15	18.00
		25	0	17.26	17.01	17.13	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	17.38	17.18	17.02	18.00
		1	25	17.14	17.12	17.18	18.00
		1	49	17.21	17.37	17.11	18.00



		25	0	17.15	17.24	17.35	18.00
		25	13	17.37	17.19	17.25	18.00
		25	25	17.31	17.41	17.14	18.00
		50	0	17.38	17.11	17.23	18.00
	16QAM	1	0	17.22	17.16	17.17	18.00
		1	25	17.11	17.36	16.82	18.00
		1	49	17.13	17.26	17.18	18.00
		25	0	17.10	17.07	17.21	18.00
		25	13	17.48	17.13	17.46	18.00
		25	25	17.38	17.26	17.31	18.00
		50	0	17.31	17.26	17.10	18.00
	64QAM	1	0	17.19	17.38	17.28	18.00
		1	25	17.37	17.15	17.17	18.00
		1	49	17.23	17.56	17.27	18.00
25		0	17.43	17.30	17.43	18.00	
25		13	17.27	17.39	17.17	18.00	
25		25	17.54	17.40	17.13	18.00	
50		0	17.46	17.07	17.28	18.00	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	17.34	17.36	17.08	18.00
		1	38	17.07	17.26	17.19	18.00
		1	74	17.35	17.33	17.20	18.00
		36	0	17.20	17.36	17.22	18.00
		36	18	17.34	17.39	17.22	18.00
		36	39	17.36	17.23	17.31	18.00
		75	0	17.25	17.25	17.09	18.00
	16QAM	1	0	17.38	17.20	16.87	18.00
		1	38	17.35	17.08	16.92	18.00
		1	74	16.96	17.46	17.33	18.00
		36	0	17.27	17.07	17.21	18.00
		36	18	17.48	17.07	17.29	18.00
		36	39	17.34	17.02	17.38	18.00
		75	0	17.49	17.14	17.07	18.00
	64QAM	1	0	17.16	17.21	17.14	18.00
		1	38	17.34	17.24	17.19	18.00
		1	74	17.23	17.36	17.24	18.00
		36	0	17.47	17.32	17.30	18.00
		36	18	17.35	17.42	17.07	18.00
		36	39	17.49	17.50	17.24	18.00
		75	0	17.23	17.28	17.11	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132072/1720	132322/1745	132572/1770	



<b>20MHz</b>	<b>QPSK</b>	1	0	<b>17.30</b>	<b>17.28</b>	<b>17.14</b>	18.00
		1	50	17.16	17.21	17.07	18.00
		1	99	17.25	<b>17.28</b>	17.11	18.00
		50	0	17.24	17.24	17.22	18.00
		50	25	<b>17.32</b>	<b>17.29</b>	17.22	18.00
		50	50	17.28	<b>17.29</b>	<b>17.27</b>	18.00
		100	0	<b>17.29</b>	17.23	17.22	18.00
	<b>16QAM</b>	1	0	17.32	17.22	17.02	18.00
		1	50	17.21	17.21	16.93	18.00
		1	99	17.10	17.37	17.22	18.00
		50	0	17.24	17.22	17.10	18.00
		50	25	17.36	17.19	17.36	18.00
		50	50	17.26	17.17	17.25	18.00
		100	0	17.34	17.19	17.13	18.00
	<b>64QAM</b>	1	0	17.23	17.31	17.22	18.00
		1	50	17.26	17.30	17.06	18.00
		1	99	17.26	17.43	17.13	18.00
		50	0	17.34	17.26	17.36	18.00
		50	25	17.31	17.40	17.08	18.00
		50	50	17.40	17.43	17.24	18.00
		100	0	17.37	17.13	17.18	18.00

LTE FDD Band 66 ANT1 Level 2&3				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
<b>1.4MHz</b>	<b>QPSK</b>	1	0	15.49	15.66	15.56	16.50
		1	2	15.64	15.52	15.42	16.50
		1	5	15.65	15.82	15.38	16.50
		3	0	15.50	15.60	15.52	16.50
		3	2	15.84	15.50	15.65	16.50
		3	3	15.72	15.76	15.51	16.50
		6	0	15.61	15.55	15.46	16.50
	<b>16QAM</b>	1	0	15.40	15.79	15.41	16.50
		1	2	15.61	15.50	15.27	16.50
		1	5	15.59	15.82	15.57	16.50
		3	0	15.52	15.77	15.51	16.50
		3	2	15.78	15.82	15.61	16.50
		3	3	15.83	15.78	15.58	16.50
		6	0	15.47	15.74	15.67	16.50
	<b>64QAM</b>	1	0	15.71	15.73	15.59	16.50
		1	2	15.37	15.76	15.58	16.50
		1	5	15.78	15.49	15.51	16.50



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit		
				1319871711.5	132322/1745	132657/1778.5			
		3	0	15.90	15.57	15.38	16.50		
		3	2	15.76	15.44	15.58	16.50		
		3	3	15.65	15.83	15.58	16.50		
		6	0	15.47	15.68	15.66	16.50		
3MHz	QPSK	1	0	15.68	15.64	15.35	16.50		
		1	7	15.50	15.67	15.33	16.50		
		1	14	15.51	15.62	15.58	16.50		
		8	0	15.64	15.48	15.69	16.50		
		8	4	15.76	15.72	15.48	16.50		
		8	7	15.51	15.65	15.53	16.50		
		15	0	15.68	15.63	15.52	16.50		
	16QAM	1	0	15.61	15.68	15.58	16.50		
		1	7	15.71	15.71	15.26	16.50		
		1	14	15.75	15.78	15.45	16.50		
		8	0	15.67	15.60	15.52	16.50		
		8	4	15.72	15.61	15.54	16.50		
		8	7	15.75	15.74	15.62	16.50		
		15	0	15.47	15.80	15.66	16.50		
	64QAM	1	0	15.68	15.67	15.58	16.50		
		1	7	15.54	15.79	15.48	16.50		
		1	14	15.69	15.51	15.52	16.50		
		8	0	15.67	15.81	15.39	16.50		
		8	4	15.77	15.43	15.36	16.50		
		8	7	15.60	15.74	15.61	16.50		
		15	0	15.62	15.58	15.55	16.50		
	5MHz					Channel/Frequency (MHz)			Tune-up Limit
			131997/1712.5	132322/1745	132647/1777.5				
	5MHz	QPSK	1	0	15.67	15.59	15.58	16.50	
			1	13	15.39	15.74	15.49	16.50	
			1	24	15.77	15.53	15.59	16.50	
			12	0	15.64	15.70	15.67	16.50	
			12	6	15.81	15.46	15.55	16.50	
12			13	15.55	15.73	15.72	16.50		
25			0	15.60	15.46	15.64	16.50		
16QAM		1	0	15.37	15.83	15.64	16.50		
		1	13	15.66	15.72	15.20	16.50		
		1	24	15.52	15.62	15.44	16.50		
		12	0	15.50	15.72	15.54	16.50		
		12	6	15.50	15.54	15.44	16.50		
		12	13	15.55	15.74	15.59	16.50		
		25	0	15.48	15.68	15.51	16.50		



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				132022/1715	132322/1745	132622/1775		
	64QAM	1	0	15.79	15.81	15.61	16.50	
		1	13	15.44	15.81	15.47	16.50	
		1	24	15.68	15.64	15.36	16.50	
		12	0	15.89	15.56	15.38	16.50	
		12	6	15.69	15.65	15.52	16.50	
		12	13	15.72	15.75	15.47	16.50	
		25	0	15.64	15.72	15.43	16.50	
10MHz	QPSK	1	0	15.59	15.56	15.41	16.50	
		1	25	15.66	15.69	15.52	16.50	
		1	49	15.53	15.64	15.50	16.50	
		25	0	15.79	15.59	15.53	16.50	
		25	13	15.65	15.70	15.65	16.50	
		25	25	15.68	15.53	15.61	16.50	
		50	0	15.61	15.74	15.58	16.50	
	16QAM	1	0	15.45	15.86	15.50	16.50	
		1	25	15.78	15.59	15.21	16.50	
		1	49	15.51	15.77	15.59	16.50	
		25	0	15.58	15.61	15.70	16.50	
		25	13	15.62	15.58	15.61	16.50	
		25	25	15.68	15.52	15.59	16.50	
		50	0	15.62	15.66	15.40	16.50	
	64QAM	1	0	15.77	15.64	15.58	16.50	
		1	25	15.45	15.72	15.60	16.50	
		1	49	15.93	15.73	15.36	16.50	
		25	0	15.82	15.64	15.38	16.50	
		25	13	15.64	15.50	15.63	16.50	
		25	25	15.75	15.69	15.38	16.50	
		50	0	15.50	15.60	15.48	16.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					132047/1717.5	132322/1745	132597/1772.5	
	15MHz	QPSK	1	0	15.76	15.60	15.53	16.50
			1	38	15.44	15.67	15.55	16.50
			1	74	15.53	15.68	15.58	16.50
			36	0	15.67	15.64	15.62	16.50
			36	18	15.80	15.48	15.69	16.50
36			39	15.63	15.71	15.69	16.50	
75			0	15.67	15.61	15.51	16.50	
16QAM		1	0	15.64	15.85	15.44	16.50	
		1	38	15.64	15.51	15.31	16.50	
		1	74	15.63	15.65	15.44	16.50	
		36	0	15.48	15.75	15.65	16.50	



		36	18	15.59	15.80	15.46	16.50
		36	39	15.58	15.73	15.58	16.50
		75	0	15.45	15.61	15.69	16.50
	64QAM	1	0	15.82	15.78	15.59	16.50
		1	38	15.33	15.56	15.61	16.50
		1	74	15.71	15.62	15.56	16.50
		36	0	15.78	15.55	15.51	16.50
		36	18	15.80	15.43	15.39	16.50
		36	39	15.71	15.75	15.62	16.50
		75	0	15.66	15.73	15.64	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	15.62	15.66	<b>15.49</b>	16.50
		1	50	15.52	15.61	15.44	16.50
		1	99	<b>15.63</b>	<b>15.67</b>	15.47	16.50
		50	0	15.64	15.61	15.63	16.50
		50	25	<b>15.69</b>	15.61	15.60	16.50
		50	50	15.65	<b>15.66</b>	<b>15.65</b>	16.50
		100	0	<b>15.70</b>	15.60	15.61	16.50
	16QAM	1	0	15.51	15.73	15.53	16.50
		1	50	15.66	15.57	15.29	16.50
		1	99	15.62	15.73	15.50	16.50
		50	0	15.55	15.74	15.64	16.50
		50	25	15.65	15.67	15.58	16.50
		50	50	15.68	15.65	15.61	16.50
		100	0	15.55	15.69	15.54	16.50
	64QAM	1	0	15.76	15.75	15.47	16.50
		1	50	15.44	15.70	15.49	16.50
		1	99	15.78	15.62	15.49	16.50
		50	0	15.76	15.67	15.51	16.50
		50	25	15.68	15.54	15.50	16.50
		50	50	15.60	15.69	15.50	16.50
		100	0	15.58	15.69	15.55	16.50

LTE FDD Band 66 ANT0&1 Level 4				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	21.37	21.13	21.17	22.00
		1	2	21.15	21.29	21.10	22.00
		1	5	21.15	21.32	21.19	22.00
		3	0	21.21	21.29	21.17	22.00
		3	2	21.19	21.23	20.92	22.00



		3	3	21.24	21.12	21.22	22.00
		6	0	21.20	21.10	21.06	22.00
	16QAM	1	0	21.11	21.20	21.25	22.00
		1	2	21.12	21.04	21.34	22.00
		1	5	21.13	21.48	21.02	22.00
		3	0	21.33	21.26	21.05	22.00
		3	2	21.27	21.21	20.84	22.00
		3	3	21.12	21.21	21.27	22.00
		6	0	21.22	21.33	21.09	22.00
		64QAM	1	0	21.24	21.13	21.28
	1		2	20.94	21.38	21.09	22.00
	1		5	21.21	21.06	21.05	22.00
	3		0	21.17	21.29	21.35	22.00
	3		2	21.20	21.41	20.99	22.00
3	3		21.09	21.21	21.16	22.00	
6	0		21.12	21.33	21.03	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	21.20	21.25	21.02	22.00
		1	7	21.10	21.10	21.25	22.00
		1	14	21.04	21.20	21.10	22.00
		8	0	21.15	21.17	21.18	22.00
		8	4	21.25	21.22	21.10	22.00
		8	7	21.08	21.27	21.29	22.00
		15	0	21.40	21.27	21.06	22.00
	16QAM	1	0	21.11	21.25	21.12	22.00
		1	7	21.37	21.32	21.23	22.00
		1	14	21.41	21.22	20.85	22.00
		8	0	21.17	21.17	21.15	22.00
		8	4	21.35	21.13	21.09	22.00
		8	7	21.06	21.15	21.36	22.00
		15	0	21.16	21.24	21.10	22.00
	64QAM	1	0	21.41	21.36	21.13	22.00
		1	7	20.91	21.30	21.03	22.00
		1	14	21.21	21.07	20.93	22.00
		8	0	21.26	21.30	21.24	22.00
		8	4	21.06	21.27	21.22	22.00
		8	7	21.28	21.27	21.06	22.00
		15	0	21.08	21.10	21.29	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	21.12	21.07	21.08	22.00
		1	13	21.06	21.12	21.15	22.00



		1	24	21.03	21.12	21.17	22.00	
		12	0	21.21	21.17	21.02	22.00	
		12	6	21.35	21.19	21.13	22.00	
		12	13	21.30	21.20	21.03	22.00	
		25	0	21.34	21.26	21.01	22.00	
	16QAM	1	0	21.23	21.06	21.25	22.00	
		1	13	21.30	21.02	21.23	22.00	
		1	24	21.28	21.46	20.91	22.00	
		12	0	21.28	21.31	21.21	22.00	
		12	6	21.25	21.14	21.04	22.00	
		12	13	21.00	21.33	21.19	22.00	
		25	0	21.34	21.39	21.21	22.00	
	64QAM	1	0	21.30	21.18	21.08	22.00	
		1	13	20.96	21.09	21.12	22.00	
		1	24	21.12	21.12	20.90	22.00	
		12	0	21.20	21.17	21.19	22.00	
		12	6	21.27	21.39	21.20	22.00	
		12	13	21.15	21.18	21.09	22.00	
		25	0	21.06	21.36	21.06	22.00	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					132022/1715	132322/1745	132622/1775	
	10MHz	QPSK	1	0	21.36	21.19	21.26	22.00
			1	25	21.16	21.24	20.98	22.00
			1	49	21.25	21.19	20.95	22.00
25			0	21.08	21.35	21.26	22.00	
25			13	21.24	21.22	21.17	22.00	
25			25	21.07	21.35	21.20	22.00	
50			0	21.16	21.20	21.02	22.00	
16QAM		1	0	21.19	21.12	21.23	22.00	
		1	25	21.24	21.29	21.33	22.00	
		1	49	21.32	21.45	21.07	22.00	
		25	0	21.14	21.43	21.14	22.00	
		25	13	21.33	21.06	21.06	22.00	
		25	25	21.20	21.11	21.18	22.00	
		50	0	21.39	21.24	21.23	22.00	
64QAM		1	0	21.28	21.19	21.24	22.00	
		1	25	20.99	21.32	21.08	22.00	
		1	49	21.39	21.06	20.92	22.00	
		25	0	21.26	21.34	21.14	22.00	
		25	13	21.27	21.32	21.05	22.00	
		25	25	21.14	21.28	21.29	22.00	
		50	0	21.11	21.16	21.29	22.00	
Bandwidth		Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up





				132047/1717.5	132322/1745	132597/1772.5	Limit
15MHz	QPSK	1	0	21.38	21.12	21.30	22.00
		1	38	21.22	21.01	21.12	22.00
		1	74	21.28	21.11	21.07	22.00
		36	0	21.29	21.27	21.09	22.00
		36	18	21.29	21.07	21.12	22.00
		36	39	21.14	21.32	21.21	22.00
		75	0	21.23	21.13	21.11	22.00
	16QAM	1	0	21.34	21.27	21.19	22.00
		1	38	21.12	21.04	21.17	22.00
		1	74	21.35	21.48	20.88	22.00
		36	0	21.31	21.33	21.22	22.00
		36	18	21.33	21.30	20.96	22.00
		36	39	21.04	21.29	21.13	22.00
		75	0	21.14	21.27	21.11	22.00
	64QAM	1	0	21.36	21.31	21.29	22.00
		1	38	20.97	21.34	21.06	22.00
		1	74	21.23	21.11	20.95	22.00
		36	0	21.27	21.25	21.17	22.00
		36	18	21.15	21.44	20.99	22.00
		36	39	21.14	21.30	21.17	22.00
		75	0	21.33	21.24	21.02	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	<b>21.23</b>	21.20	<b>21.17</b>	22.00
		1	50	21.11	21.14	21.13	22.00
		1	99	21.13	<b>21.25</b>	21.05	22.00
		50	0	21.23	21.21	21.11	22.00
		50	25	<b>21.30</b>	21.22	21.07	22.00
		50	50	21.22	<b>21.24</b>	<b>21.15</b>	22.00
		100	0	<b>21.29</b>	21.20	21.07	22.00
	16QAM	1	0	21.25	21.19	21.16	22.00
		1	50	21.22	21.17	21.23	22.00
		1	99	21.27	21.35	20.94	22.00
		50	0	21.22	21.32	21.10	22.00
		50	25	21.21	21.16	20.99	22.00
		50	50	21.14	21.26	21.24	22.00
		100	0	21.26	21.32	21.11	22.00
	64QAM	1	0	21.32	21.25	21.23	22.00
		1	50	20.99	21.23	21.07	22.00
		1	99	21.27	21.16	20.93	22.00
		50	0	21.32	21.25	21.25	22.00
		50	25	21.19	21.33	21.12	22.00



		50	50	21.15	21.33	21.16	22.00
		100	0	21.19	21.24	21.17	22.00

LTE FDD Band 66 ANT0&1 Level 5&6				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	20.65	20.72	20.35	21.50
		1	2	20.47	20.59	20.35	21.50
		1	5	20.53	20.55	20.45	21.50
		3	0	20.67	20.60	20.69	21.50
		3	2	20.78	20.77	20.59	21.50
		3	3	20.49	20.67	20.67	21.50
		6	0	20.77	20.60	20.73	21.50
	16QAM	1	0	20.68	20.66	20.43	21.50
		1	2	20.54	20.51	20.72	21.50
		1	5	20.69	20.72	20.52	21.50
		3	0	20.39	20.79	20.67	21.50
		3	2	20.64	20.46	20.67	21.50
		3	3	20.63	20.44	20.79	21.50
		6	0	20.64	20.59	20.73	21.50
	64QAM	1	0	20.66	20.58	20.40	21.50
		1	2	20.57	20.66	20.35	21.50
		1	5	20.47	20.50	20.43	21.50
		3	0	20.54	20.64	20.36	21.50
		3	2	20.80	20.74	20.55	21.50
		3	3	20.60	20.81	20.87	21.50
		6	0	20.66	20.57	20.71	21.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	20.55	20.59	20.42	21.50
		1	7	20.58	20.51	20.47	21.50
		1	14	20.60	20.62	20.42	21.50
		8	0	20.53	20.71	20.54	21.50
		8	4	20.71	20.61	20.65	21.50
		8	7	20.78	20.72	20.62	21.50
		15	0	20.70	20.62	20.65	21.50
	16QAM	1	0	20.65	20.60	20.38	21.50
		1	7	20.75	20.58	20.44	21.50
		1	14	20.52	20.86	20.49	21.50
		8	0	20.45	20.76	20.77	21.50
		8	4	20.69	20.51	20.62	21.50
		8	7	20.71	20.74	20.88	21.50



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				131997/1712.5	132322/1745	132647/1777.5		
	64QAM	15	0	20.81	20.78	20.60	21.50	
		1	0	20.59	20.50	20.37	21.50	
		1	7	20.58	20.69	20.57	21.50	
		1	14	20.61	20.60	20.38	21.50	
		8	0	20.57	20.55	20.53	21.50	
		8	4	20.73	20.69	20.59	21.50	
		8	7	20.77	20.76	20.84	21.50	
		15	0	20.74	20.36	20.76	21.50	
5MHz	QPSK	1	0	20.76	20.75	20.60	21.50	
		1	13	20.51	20.61	20.52	21.50	
		1	24	20.72	20.53	20.44	21.50	
		12	0	20.59	20.68	20.63	21.50	
		12	6	20.79	20.54	20.54	21.50	
		12	13	20.50	20.68	20.57	21.50	
		25	0	20.54	20.56	20.61	21.50	
	16QAM	1	0	20.75	20.47	20.52	21.50	
		1	13	20.52	20.50	20.56	21.50	
		1	24	20.81	20.57	20.42	21.50	
		12	0	20.48	20.79	20.82	21.50	
		12	6	20.84	20.57	20.62	21.50	
		12	13	20.72	20.66	20.72	21.50	
		25	0	20.59	20.75	20.68	21.50	
	64QAM	1	0	20.68	20.64	20.44	21.50	
		1	13	20.42	20.59	20.61	21.50	
		1	24	20.42	20.63	20.41	21.50	
		12	0	20.39	20.43	20.58	21.50	
		12	6	20.83	20.72	20.63	21.50	
		12	13	20.74	20.78	20.69	21.50	
		25	0	20.78	20.58	20.70	21.50	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					132022/1715	132322/1745	132622/1775	
	10MHz	QPSK	1	0	20.51	20.78	20.52	21.50
1			25	20.48	20.70	20.51	21.50	
1			49	20.58	20.58	20.53	21.50	
25			0	20.60	20.59	20.69	21.50	
25			13	20.67	20.55	20.49	21.50	
25			25	20.71	20.65	20.78	21.50	
50			0	20.68	20.72	20.69	21.50	
16QAM		1	0	20.78	20.39	20.49	21.50	
		1	25	20.70	20.68	20.66	21.50	
		1	49	20.68	20.82	20.42	21.50	



	64QAM	25	0	20.43	20.64	20.82	21.50
		25	13	20.83	20.61	20.69	21.50
		25	25	20.67	20.67	20.62	21.50
		50	0	20.68	20.84	20.80	21.50
		1	0	20.69	20.66	20.57	21.50
		1	25	20.38	20.65	20.47	21.50
		1	49	20.72	20.66	20.39	21.50
		25	0	20.64	20.46	20.40	21.50
		25	13	20.82	20.69	20.38	21.50
		25	25	20.56	20.75	20.65	21.50
50	0	20.85	20.47	20.81	21.50		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	20.51	20.56	20.38	21.50
		1	38	20.59	20.49	20.36	21.50
		1	74	20.64	20.55	20.53	21.50
		36	0	20.53	20.71	20.39	21.50
		36	18	20.54	20.79	20.74	21.50
		36	39	20.62	20.80	20.51	21.50
		75	0	20.57	20.44	20.58	21.50
	16QAM	1	0	20.65	20.44	20.24	21.50
		1	38	20.68	20.78	20.46	21.50
		1	74	20.59	20.67	20.71	21.50
		36	0	20.32	20.52	20.61	21.50
		36	18	20.86	20.48	20.80	21.50
		36	39	20.72	20.67	20.75	21.50
		75	0	20.65	20.55	20.56	21.50
	64QAM	1	0	20.63	20.47	20.35	21.50
		1	38	20.36	20.59	20.50	21.50
		1	74	20.52	20.61	20.32	21.50
		36	0	20.48	20.53	20.54	21.50
		36	18	20.87	20.49	20.43	21.50
		36	39	20.81	20.83	20.83	21.50
		75	0	20.70	20.35	20.64	21.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	<b>20.65</b>	20.64	<b>20.49</b>	21.50
		1	50	20.54	20.59	20.48	21.50
		1	99	20.60	<b>20.67</b>	20.48	21.50
		50	0	20.56	20.64	20.54	21.50
		50	25	<b>20.68</b>	20.65	20.60	21.50
		50	50	20.64	<b>20.69</b>	<b>20.66</b>	21.50
		100	0	<b>20.67</b>	20.59	20.58	21.50



	16QAM	1	0	20.76	20.53	20.38	21.50
		1	50	20.66	20.64	20.59	21.50
		1	99	20.67	20.71	20.56	21.50
		50	0	20.46	20.67	20.67	21.50
		50	25	20.75	20.55	20.70	21.50
		50	50	20.58	20.59	20.75	21.50
		100	0	20.68	20.70	20.66	21.50
	64QAM	1	0	20.59	20.55	20.48	21.50
		1	50	20.47	20.54	20.47	21.50
		1	99	20.57	20.61	20.39	21.50
		50	0	20.51	20.50	20.50	21.50
		50	25	20.72	20.62	20.53	21.50
		50	50	20.71	20.72	20.75	21.50
		100	0	20.77	20.49	20.72	21.50



1.1.1 LTE CA

LTE Uplink 2CA_ Band 7-ANT1 Normal Power										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	2	98	1	0	3	23.67	24.3
21100	21298	20	QPSK	2	98	1	0	3	23.66	24.3
21350	21152	20	QPSK	1	0	2	98	3	23.85	24.3
LTE Uplink 2CA_ Band 38-ANT0&1 Normal Power										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
38048	37850	20	QPSK	1	0	2	98	3	24.43	24.5
38099	37901	20	QPSK	1	0	2	98	3	24.47	24.5
37952	38150	20	QPSK	2	98	1	0	3	24.35	24.5
LTE Uplink 2CA_ Band 41-ANT0&1 Normal Power										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	2	98	1	0	3	24.07	24.5
40185	40383	20	QPSK	2	98	1	0	3	24.11	24.5
40620	40818	20	QPSK	2	98	1	0	3	24.34	24.5
41055	41253	20	QPSK	2	98	1	0	3	24.09	24.5
41490	41292	20	QPSK	1	0	2	98	3	24.47	24.5
LTE Uplink 2CA_ Band 7-ANT1-Level1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	2	98	1	0	3	16.53	17.8
21100	21298	20	QPSK	2	98	1	0	3	16.41	17.8
21350	21152	20	QPSK	1	0	2	98	3	16.55	17.8
LTE Uplink 2CA_ Band 38-ANT1-Level1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB	Measured Power(dBm)	Max. tune-up power(dBm)



				RB Size	RB Pos.	RB Size	RB Pos.	Size		
38048	37850	20	QPSK	1	0	2	98	3	20.89	22
38099	37901	20	QPSK	1	0	2	98	3	20.85	22
37952	38150	20	QPSK	2	98	1	0	3	20.91	22
LTE Uplink 2CA_ Band 41-ANT1-Level1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	2	98	1	0	3	20.58	21.5
40185	40383	20	QPSK	2	98	1	0	3	20.85	21.5
40620	40818	20	QPSK	2	98	1	0	3	20.77	21.5
41055	41253	20	QPSK	2	98	1	0	3	20.47	21.5
41490	41292	20	QPSK	1	0	2	98	3	20.39	21.5
LTE Uplink 2CA_ Band 7-ANT1-Level2&3										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	2	98	1	0	3	15.84	16.8
21100	21298	20	QPSK	2	98	1	0	3	15.72	16.8
21350	21152	20	QPSK	1	0	2	98	3	15.69	16.8
LTE Uplink 2CA_ Band 38-ANT1-Level2&3										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
38048	37850	20	QPSK	1	0	2	98	3	20.89	22
38099	37901	20	QPSK	1	0	2	98	3	20.85	22
37952	38150	20	QPSK	2	98	1	0	3	20.91	22
LTE Uplink 2CA_ Band 41-ANT1-Level2&3										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	2	98	1	0	3	18.98	20
40185	40383	20	QPSK	2	98	1	0	3	19.23	20
40620	40818	20	QPSK	2	98	1	0	3	19.28	20



41055	41253	20	QPSK	2	98	1	0	3	19.14	20
41490	41292	20	QPSK	1	0	2	98	3	19.11	20
LTE Uplink 2CA_ Band 7-ANT1-Level4										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	2	98	1	0	3	19.11	20.3
21100	21298	20	QPSK	2	98	1	0	3	19.05	20.3
21350	21152	20	QPSK	1	0	2	98	3	19.16	20.3
LTE Uplink 2CA_ Band 7-ANT1-Level5&6										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	2	98	1	0	3	18.52	19.8
21100	21298	20	QPSK	2	98	1	0	3	18.6	19.8
21350	21152	20	QPSK	1	0	2	98	3	18.56	19.8
LTE Uplink 2CA_ Band 7-ANT0-Level4										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	2	98	1	0	3	21.65	22.8
21100	21298	20	QPSK	2	98	1	0	3	21.57	22.8
21350	21152	20	QPSK	1	0	2	98	3	21.63	22.8
LTE Uplink 2CA_ Band 7-ANT0-Level5&6										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	2	98	1	0	3	21.22	21.8
21100	21298	20	QPSK	2	98	1	0	3	21.15	21.8
21350	21152	20	QPSK	1	0	2	98	3	21.21	21.8



## 1.4 EN-DC Mode

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS 138.521-1 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS138.521-1.

**Table 6.2.2.3-1: Maximum Power Reduction (MPR) for Power 3**

Modulation	MPR (dB)		
	Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$0^2$
DFT-s-OFDM QPSK	$\leq 1$		0
DFT-s-OFDM 16 QAM	$\leq 2$		$\leq 1$
DFT-s-OFDM 64 QAM		$\leq 2.5$	
DFT-s-OFDM 256 QAM		$\leq 4.5$	
CP-OFDM QPSK	$\leq 3$		$\leq 1.5$
CP-OFDM 16 QAM	$\leq 3$		$\leq 2$
CP-OFDM 64 QAM		$\leq 3.5$	
CP-OFDM 256 QAM		$\leq 6.5$	

NOTE 1: Applicable for UE operating in TDD mode with PI/2 BPSK modulation and UE indicates support for UE capability *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0dB MPR is 26dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 and if the IE *powerBoostPi2BPSK* is set to 0 and if more than 40% of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

The allowed A-MPR values specified below in Table 6.2.3.3.1-1 of 3GPP TS138.521-1 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS\_01"

**Table 6.2.3.3.1-1: Additional maximum power reduction (A-MPR)**

Network Signalling label	Requirements (subclause)	NR Band	Channel bandwidth (MHz)	Resources Blocks ( $N_{RB}$ )	A-MPR (dB)
NS_01		Table 5.2-1	5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100	Table 5.3.2-1	N/A

**EN-DC Antenna Configuration**

EN-DC	Band	LTE Band	NR Band	Antenna 4	Antenna 0	Antenna 1
	EN-DC_7A_n5	LTE 7	n5	LTE	NR	NR

Note:1) The EN-DC mode maximum power for LTE are same as LTE standalone mode, so this section only list 5G NR conducted power.

**1.1.2 LTE (EN-DC)**

LTE FDD Band 7 ANT 4 Level 1&2&3&5&6				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	21.70	21.66	21.58	22.30
		1	13	21.58	21.66	21.51	22.30
		1	24	21.80	21.69	21.65	22.30
		12	0	21.52	21.84	21.74	22.30
		12	6	21.83	21.93	21.79	22.30
		12	13	21.83	21.72	21.64	22.30
		25	0	21.54	21.72	21.89	22.30
	16QAM	1	0	21.78	21.54	21.54	22.30
		1	13	21.60	21.44	21.47	22.30
		1	24	21.67	21.54	21.51	22.30
		12	0	20.73	21.34	20.77	22.30
		12	6	20.42	21.26	21.10	22.30
		12	13	20.58	21.23	21.17	22.30
		25	0	20.61	21.22	20.78	22.30
	64QAM	1	0	19.50	20.11	19.91	22.30
		1	13	19.44	20.48	19.74	22.30
		1	24	19.35	20.13	19.23	22.30
		12	0	18.62	19.29	18.68	21.30
		12	6	18.48	19.69	18.95	21.30
		12	13	18.55	19.50	19.14	21.30
		25	0	18.59	19.42	18.86	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
10MHz	QPSK	1	0	21.65	21.64	21.62	22.30
		1	25	21.64	21.68	21.62	22.30
		1	49	21.86	21.64	21.60	22.30
		25	0	21.54	21.91	21.72	22.30
		25	13	21.81	21.80	21.76	22.30



		25	25	21.83	21.63	21.68	22.30
		50	0	21.54	21.72	21.86	22.30
	16QAM	1	0	21.86	21.52	21.52	22.30
		1	25	21.55	21.56	21.59	22.30
		1	49	21.78	21.63	21.40	22.30
		25	0	20.59	21.23	20.79	22.30
		25	13	20.38	21.28	21.10	22.30
		25	25	20.54	21.15	21.06	22.30
		50	0	20.65	21.32	20.80	22.30
		64QAM	1	0	19.44	20.09	19.85
	1		25	19.48	20.38	19.80	22.30
	1		49	19.29	20.07	19.29	22.30
	25		0	18.72	19.23	18.58	21.30
	25		13	18.37	19.53	19.01	21.30
25	25		18.60	19.42	19.02	21.30	
50	0		18.53	19.42	18.78	21.30	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	21.65	21.51	21.56	22.30
		1	38	21.66	21.70	21.66	22.30
		1	74	21.75	21.69	21.67	22.30
		36	0	21.62	21.91	21.74	22.30
		36	18	21.77	21.93	21.85	22.30
		36	39	21.79	21.78	21.73	22.30
		75	0	21.52	21.83	21.82	22.30
	16QAM	1	0	21.80	21.46	21.58	22.30
		1	38	21.55	21.52	21.49	22.30
		1	74	21.74	21.61	21.57	22.30
		36	0	20.63	21.26	20.75	22.30
		36	18	20.48	21.30	21.12	22.30
		36	39	20.58	21.17	21.21	22.30
		75	0	20.63	21.32	20.82	22.30
	64QAM	1	0	19.52	20.01	19.85	22.30
		1	38	19.44	20.52	19.80	22.30
		1	74	19.41	20.09	19.17	22.30
		36	0	18.70	19.27	18.66	21.30
		36	18	18.42	19.57	19.01	21.30
		36	39	18.60	19.40	19.08	21.30
		75	0	18.55	19.52	18.75	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	21.72	21.62	21.60	22.30
		1	50	21.64	21.66	21.62	22.30



		1	99	<b>21.84</b>	<b>21.71</b>	<b>21.67</b>	22.30
		50	0	21.56	21.84	21.70	22.30
		50	25	<b>21.81</b>	<b>21.89</b>	<b>21.83</b>	22.30
		50	50	21.79	21.74	21.75	22.30
		100	0	21.52	<b>21.83</b>	21.82	22.30
	16QAM	1	0	21.82	21.48	21.54	22.30
		1	50	21.64	21.50	21.53	22.30
		1	99	21.76	21.63	21.51	22.30
		50	0	20.67	21.32	20.75	22.30
		50	25	20.46	21.26	21.10	22.30
		50	50	20.62	21.17	21.17	22.30
		100	0	20.65	21.28	20.88	22.30
	64QAM	1	0	19.52	20.11	19.93	22.30
		1	50	19.46	20.46	19.76	22.30
		1	99	19.37	20.13	19.27	22.30
		50	0	18.66	19.33	18.64	21.30
		50	25	18.46	19.63	19.05	21.30
		50	50	18.62	19.48	19.08	21.30
		100	0	18.59	19.48	18.84	21.30

LTE FDD Band 7 ANT 4 Level 4				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	22.63	22.52	22.64	23.30
		1	13	22.75	22.56	22.60	23.30
		1	24	22.70	22.74	22.63	23.30
		12	0	21.53	22.26	21.67	23.30
		12	6	21.79	22.37	22.14	23.30
		12	13	21.52	22.30	21.95	23.30
		25	0	21.54	22.35	21.93	23.30
	16QAM	1	0	21.86	21.93	21.93	23.30
		1	13	21.74	22.96	21.91	23.30
		1	24	21.67	22.19	21.63	23.30
		12	0	20.75	21.30	20.81	22.30
		12	6	20.48	21.26	21.01	22.30
		12	13	20.64	21.28	21.02	22.30
		25	0	20.61	21.43	20.88	22.30
	64QAM	1	0	19.50	20.17	19.83	22.30
		1	13	19.44	20.48	19.76	22.30
		1	24	19.41	20.05	19.35	22.30
		12	0	18.79	19.41	18.64	21.30
		12	6	18.46	19.67	19.09	21.30



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit	
				20800/2505	21100/2535	21400/2565		
		12	13	18.64	19.56	19.20	21.30	
		25	0	18.47	19.36	18.76	21.30	
10MHz	QPSK	1	0	22.66	22.49	22.66	23.30	
		1	25	22.66	22.47	22.60	23.30	
		1	49	22.64	22.81	22.45	23.30	
		25	0	21.49	22.35	21.74	23.30	
		25	13	21.61	22.35	22.18	23.30	
		25	25	21.60	22.39	22.08	23.30	
		50	0	21.45	22.33	21.79	23.30	
	16QAM	1	0	21.93	22.09	21.95	23.30	
		1	25	21.78	22.83	21.98	23.30	
		1	49	21.65	22.13	21.71	23.30	
		25	0	20.69	21.30	20.73	22.30	
		25	13	20.54	21.26	21.12	22.30	
		25	25	20.68	21.20	21.09	22.30	
		50	0	20.65	21.30	20.82	22.30	
	64QAM	1	0	19.52	20.19	19.97	22.30	
		1	25	19.42	20.40	19.86	22.30	
		1	49	19.53	20.05	19.27	22.30	
		25	0	18.81	19.29	18.76	21.30	
		25	13	18.59	19.63	19.11	21.30	
		25	25	18.52	19.54	19.10	21.30	
		50	0	18.46	19.50	18.80	21.30	
	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
					20825/2507.5	21100/2535	21375/2562.5	
	15MHz	QPSK	1	0	22.50	22.45	22.66	23.30
1			38	22.66	22.63	22.62	23.30	
1			74	22.77	22.72	22.61	23.30	
36			0	21.46	22.42	21.82	23.30	
36			18	21.65	22.32	22.14	23.30	
36			39	21.54	22.30	22.10	23.30	
75			0	21.60	22.30	21.82	23.30	
16QAM		1	0	21.82	21.95	22.09	23.30	
		1	38	21.81	22.89	21.87	23.30	
		1	74	21.74	22.13	21.65	23.30	
		36	0	20.69	21.28	20.75	22.30	
		36	18	20.58	21.28	21.04	22.30	
		36	39	20.56	21.15	21.05	22.30	
		75	0	20.65	21.30	20.90	22.30	
64QAM		1	0	19.54	20.21	19.91	22.30	
		1	38	19.54	20.56	19.74	22.30	



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
		1	74	19.39	20.17	19.27	22.30
		36	0	18.68	19.25	18.63	21.30
		36	18	18.44	19.73	19.07	21.30
		36	39	18.62	19.50	19.18	21.30
		75	0	18.49	19.42	18.78	21.30
<b>20MHz</b>	QPSK	1	0	22.61	22.54	<b>22.66</b>	23.30
		1	50	22.68	22.58	22.62	23.30
		1	99	<b>22.75</b>	<b>22.74</b>	22.56	23.30
		50	0	21.55	22.35	21.78	23.30
		50	25	<b>21.72</b>	<b>22.39</b>	<b>22.14</b>	23.30
		50	50	21.54	22.32	22.06	23.30
		100	0	21.56	<b>22.37</b>	21.86	23.30
	16QAM	1	0	21.86	22.02	22.02	23.30
		1	50	21.74	22.94	21.98	23.30
		1	99	21.76	22.17	21.67	23.30
		50	0	20.75	21.26	20.77	22.30
		50	25	20.54	21.32	21.12	22.30
		50	50	20.62	21.26	21.13	22.30
		100	0	20.59	21.39	20.86	22.30
	64QAM	1	0	19.54	20.19	19.91	22.30
		1	50	19.48	20.50	19.80	22.30
		1	99	19.47	20.15	19.37	22.30
		50	0	18.75	19.35	18.70	21.30
		50	25	18.53	19.69	19.09	21.30
		50	50	18.58	19.58	19.14	21.30
		100	0	18.53	19.46	18.78	21.30

## 1.1.3 NR (EN-DC)

N5-ANT0 Full power		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				165300/826.5	167300/836.5	169300/846.5	
5	DFT-s-OFDM QPSK	1	1	23.64	23.42	23.33	24.30
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				165800/829	167300/836.5	168800/844	
10	DFT-s-OFDM QPSK	1	1	23.64	23.44	23.24	24.30
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				166300/831.5	167300/836.5	168300/841.5	
15	DFT-s-OFDM QPSK	1	1	23.64	23.40	23.30	24.30
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				166800/834	167300/836.5	167800/839	
20	DFT-s-OFDM QPSK	1	1	23.64	23.49	23.23	24.30
		1	53	23.28	23.11	23.30	24.30
		1	104	23.12	23.08	22.83	24.30
	DFT-s-OFDM QPSK	50	0	23.77	23.39	23.38	24.30
		50	28	23.01	22.95	22.83	24.30
		50	56	23.20	23.27	23.06	24.30
	DFT-s-OFDM QPSK	100	0	22.50	22.78	22.65	23.80
	DFT-s-OFDM 16QAM	1	1	22.41	21.85	22.68	23.30
	DFT-s-OFDM 64QAM	1	1	20.90	20.98	21.06	21.80
	DFT-s-OFDM 256QAM	1	1	19.89	20.02	20.11	20.80
	CP-OFDM QPSK	1	1	22.05	22.16	21.96	22.80
	CP-OFDM 16QAM	1	1	21.48	21.95	21.56	22.80
CP-OFDM 64QAM	1	1	20.33	20.46	20.33	21.30	
CP-OFDM 256QAM	1	1	18.62	18.90	18.62	19.80	



N5-ANT1 Full power		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				165300/826.5	167300/836.5	169300/846.5	
5	DFT-s-OFDM QPSK	1	1	23.42	23.13	23.31	24.80
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				165800/829	167300/836.5	168800/844	
10	DFT-s-OFDM QPSK	1	1	23.47	23.28	23.23	24.80
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				166300/831.5	167300/836.5	168300/841.5	
15	DFT-s-OFDM QPSK	1	1	23.51	23.35	23.21	24.80
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				166800/834	167300/836.5	167800/839	
20	DFT-s-OFDM QPSK	1	1	23.37	23.25	23.23	24.80
		1	53	23.11	23.15	23.02	24.80
		1	104	23.14	23.07	22.95	24.80
	DFT-s-OFDM QPSK	50	0	23.49	23.17	23.30	24.80
		50	28	23.00	23.12	22.88	24.80
		50	56	23.28	23.28	23.17	24.80
	DFT-s-OFDM QPSK	100	0	22.38	22.52	22.29	23.80
	DFT-s-OFDM 16QAM	1	1	22.58	22.60	22.61	23.80
	DFT-s-OFDM 64QAM	1	1	21.24	21.15	21.09	22.30
	DFT-s-OFDM 256QAM	1	1	19.59	19.52	19.40	20.80
	CP-OFDM QPSK	1	1	21.90	21.94	22.05	23.30
	CP-OFDM 16QAM	1	1	21.48	21.51	21.58	22.80
	CP-OFDM 64QAM	1	1	20.25	20.32	20.30	21.30
CP-OFDM 256QAM	1	1	18.70	18.66	18.68	19.80	



N7-ANT0 Full power		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				500500/2502.5	507000/2535	513500/2567.5	
5	DFT-s-OFDM QPSK	1	1	22.50	22.92	23.15	24.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501000/2505	507000/2535	513000/2565	
10	DFT-s-OFDM QPSK	1	1	22.51	22.85	22.94	24.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501500/2507.5	507000/2535	512500/2562.5	
15	DFT-s-OFDM QPSK	1	1	22.72	22.84	23.05	24.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				502000/2510	507000/2535	512000/2560	
20	DFT-s-OFDM QPSK	1	1	22.65	22.91	23.04	24.00
		1	53	22.44	22.55	22.63	24.00
		1	104	22.58	22.85	22.15	24.00
	DFT-s-OFDM QPSK	50	0	22.64	23.05	23.12	24.00
		50	28	22.51	23.10	22.24	24.00
		50	56	22.78	22.92	22.92	24.00
	DFT-s-OFDM QPSK	100	0	21.50	21.73	21.68	23.50
	DFT-s-OFDM 16QAM	1	1	21.53	21.42	21.29	23.00
	DFT-s-OFDM 64QAM	1	1	19.98	19.95	19.86	21.50
	DFT-s-OFDM 256QAM	1	1	18.48	18.37	18.36	19.50
	CP-OFDM QPSK	1	1	20.79	20.70	20.55	22.50
	CP-OFDM 16QAM	1	1	20.32	20.25	20.17	21.50
	CP-OFDM 64QAM	1	1	19.38	19.23	19.34	20.50
CP-OFDM 256QAM	1	1	17.66	17.69	17.80	19.00	



N7-ANT0-Level 5&6		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				500500/2502.5	507000/2535	513500/2567.5	
5	DFT-s-OFDM QPSK	1	1	22.15	22.38	22.29	23.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501000/2505	507000/2535	513000/2565	
10	DFT-s-OFDM QPSK	1	1	22.19	22.19	22.47	23.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501500/2507.5	507000/2535	512500/2562.5	
15	DFT-s-OFDM QPSK	1	1	22.26	22.28	22.23	23.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				502000/2510	507000/2535	512000/2560	
20	DFT-s-OFDM QPSK	1	1	22.17	22.29	22.43	23.50
		1	53	21.81	22.16	22.22	23.50
		1	104	22.20	22.41	22.38	23.50
	DFT-s-OFDM QPSK	50	0	22.11	22.58	22.63	23.50
		50	28	22.01	22.47	21.80	23.50
		50	56	22.17	22.40	22.49	23.50
	DFT-s-OFDM QPSK	100	0	21.85	21.81	21.77	23.50
	DFT-s-OFDM 16QAM	1	1	21.53	21.36	21.33	23.00
	DFT-s-OFDM 64QAM	1	1	19.77	19.83	19.79	21.50
	DFT-s-OFDM 256QAM	1	1	18.53	18.48	18.49	19.50
	CP-OFDM QPSK	1	1	21.52	21.48	21.42	22.50
	CP-OFDM 16QAM	1	1	20.79	20.95	20.83	21.50
	CP-OFDM 64QAM	1	1	19.58	19.63	19.48	20.50
CP-OFDM 256QAM	1	1	17.71	17.56	17.82	19.00	



N7-ANT4 Full power		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				500500/2502.5	507000/2535	513500/2567.5	
5	DFT-s-OFDM QPSK	1	1	21.46	22.73	22.18	23.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501000/2505	507000/2535	513000/2565	
10	DFT-s-OFDM QPSK	1	1	21.56	22.62	22.33	23.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501500/2507.5	507000/2535	512500/2562.5	
15	1	1	21.56	22.63	22.25	23.00	1
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				502000/2510	507000/2535	512000/2560	
20	DFT-s-OFDM QPSK	1	1	21.59	22.61	22.20	23.00
		1	53	21.64	22.05	21.63	23.00
		1	104	21.59	22.20	21.53	23.00
	DFT-s-OFDM QPSK	50	0	21.64	22.53	22.15	23.00
		50	28	21.72	22.15	21.58	23.00
		50	56	21.54	22.25	21.84	23.00
	DFT-s-OFDM QPSK	100	0	21.53	21.48	21.58	22.00
	DFT-s-OFDM 16QAM	1	1	21.33	21.30	21.23	22.00
	DFT-s-OFDM 64QAM	1	1	19.42	19.40	19.25	20.50
	DFT-s-OFDM256QAM	1	1	18.52	18.60	18.54	19.50
	CP-OFDM QPSK	1	1	20.60	20.70	20.63	21.50
	CP-OFDM 16QAM	1	1	20.34	20.25	20.39	21.00
	CP-OFDM 64QAM	1	1	19.34	19.23	19.08	20.00
CP-OFDM 256QAM	1	1	17.62	17.61	17.48	18.50	



N7-ANT4 LEVEL1&2&3		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				500500/2502.5	507000/2535	513500/2567.5	
5	DFT-s-OFDM QPSK	1	1	20.73	21.23	21.38	22.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501000/2505	507000/2535	513000/2565	
10	DFT-s-OFDM QPSK	1	1	20.77	21.14	21.49	22.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501500/2507.5	507000/2535	512500/2562.5	
15	DFT-s-OFDM QPSK	1	1	20.72	21.24	21.50	22.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				502000/2510	507000/2535	512000/2560	
20	DFT-s-OFDM QPSK	1	1	20.86	21.15	21.56	22.00
		1	53	20.81	21.20	21.59	22.00
		1	104	20.64	21.29	21.48	22.00
	DFT-s-OFDM QPSK	50	0	20.78	21.09	21.56	22.00
		50	28	20.93	21.15	21.44	22.00
		50	56	20.83	21.24	21.78	22.00
	DFT-s-OFDM QPSK	100	0	20.85	21.05	21.64	22.00
	DFT-s-OFDM 16QAM	1	1	20.36	20.82	21.28	22.00
	DFT-s-OFDM 64QAM	1	1	19.30	19.49	19.15	20.50
	DFT-s-OFDM256QAM	1	1	18.51	18.64	18.45	19.50
	CP-OFDM QPSK	1	1	20.49	20.84	20.66	21.50
	CP-OFDM 16QAM	1	1	20.40	20.29	20.54	21.00
	CP-OFDM 64QAM	1	1	19.25	19.34	18.93	20.00
CP-OFDM 256QAM	1	1	17.50	17.68	17.36	18.50	



N41-ANT0 Full power		Conducted Power(dBm)							Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					
				501204/2506.2	509904/2549.52	518598/2592.99	527298/2636.49	535998/2679.99	
20	DFT-s-OFDM QPSK	1	1	22.75	22.81	22.78	22.73	22.89	24.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				503202/2516.01	510900/2554.5	518598/2592.99	526302/2631.5	534000/2670	
40	DFT-s-OFDM QPSK	1	1	22.65	22.69	22.83	22.77	22.88	24.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				504204/2521.02	511404/2557.02	518598/2592.99	525798/2628.99	532998/2664.99	
50	DFT-s-OFDM QPSK	1	1	22.82	22.77	22.92	22.84	22.71	24.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				505200/2526	511902/2559.51	518598/2595.99	525300/2626.5	531996/2649.99	
60	DFT-s-OFDM QPSK	1	1	22.91	22.69	22.84	22.74	22.82	24.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				507204/2536.02	512904/2564.52	518598/2595.99	524298/2621.49	529998/2649.99	
80	DFT-s-OFDM QPSK	1	1	22.89	22.77	22.68	22.83	22.81	24.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				508200/2541	513402/213402	518598/2592.99	523800/2619	528996/2664.98	
90	DFT-s-OFDM QPSK	1	1	22.76	22.74	22.80	22.83	22.85	24.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				509202/2546.01	513900/2569.5	518598/2592.99	523302/2616.51	528000/2640	
100	DFT-s-OFDM QPSK	1	1	22.77	22.68	22.82	22.71	22.75	24.50
		1	137	22.67	22.74	22.91	22.95	22.68	24.50
		1	271	22.86	22.87	23.02	22.93	22.99	24.50
	DFT-s-OFDM QPSK	135	0	22.80	22.80	22.96	22.74	22.74	24.50
		135	69	22.79	22.87	23.02	23.04	22.59	24.50
		135	138	22.76	22.87	22.87	22.92	23.02	24.50
	DFT-s-OFDM QPSK	270	0	21.91	21.68	21.85	21.86	21.85	23.50
DFT-s-OFDM	1	1	20.76	20.81	20.79	20.75	20.83	23.50	



	16QAM								
	DFT-s-OFDM 64QAM	1	1	20.58	20.65	20.44	20.51	20.49	22.00
	DFT-s-OFDM 256QAM	1	1	18.62	18.71	18.62	18.58	18.62	20.00
	CP-OFDM QPSK	1	1	21.47	21.39	21.55	21.46	21.56	23.00
	CP-OFDM 16QAM	1	1	20.97	20.83	20.86	20.87	20.89	22.50
	CP-OFDM 64QAM	1	1	19.87	20.02	19.67	19.82	19.71	21.00
	CP-OFDM 256QAM	1	1	18.26	18.05	17.96	18.11	18.13	19.50

N41-ANT4 Full power		Conducted Power(dBm)							Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					
								501204/ 2506.2	509904/ 2549.52
20	DFT-s-OFDM QPSK	1	1	22.27	22.29	22.27	22.38	22.31	23.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				503202/ 2516.01	510900 /2554.5	518598/ 2592.99	526302/ 2631.5	534000/ 2670	
40	DFT-s-OFDM QPSK	1	1	22.10	22.01	22.00	22.08	22.23	23.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				504204/ 2521.02	511404/ 2557.02	518598/ 2592.99	525798/ 2628.99	532998/ 2664.99	
50	DFT-s-OFDM QPSK	1	1	22.13	22.11	22.04	22.20	22.47	23.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				505200/ 2526	511902/ 2559.51	518598/ 2595.99	525300/ 2626.5	531996/ 2649.99	
60	DFT-s-OFDM QPSK	1	1	22.25	22.23	22.08	22.15	22.42	23.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				507204/ 2536.02	512904/ 2564.52	518598/ 2595.99	524298/ 2621.49	529998/ 2649.99	
80	DFT-s-OFDM QPSK	1	1	22.31	22.28	22.12	22.45	22.33	23.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit
				508200/ 2541.02	513402/ 2569.02	518598/ 2595.99	523800/ 2626.5	528996/ 2649.99	



				2541	213402	2592.99	2619	2664.98	(dBm)
90	DFT-s-OFDM QPSK	1	1	22.07	22.13	22.00	22.19	22.46	23.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				509202/2546.01	513900/2569.5	518598/2592.99	523302/2616.51	528000/2640	
100	DFT-s-OFDM QPSK	1	1	22.20	22.17	22.15	22.23	22.37	23.50
		1	137	22.05	22.22	22.26	22.37	22.46	23.50
		1	271	22.80	22.79	23.05	22.94	22.68	23.50
	DFT-s-OFDM QPSK	135	0	22.05	22.05	22.08	22.31	22.25	23.50
		135	69	22.14	22.20	22.27	22.36	22.57	23.50
		135	138	22.89	22.94	23.08	23.02	22.75	23.50
	DFT-s-OFDM QPSK	270	0	21.06	20.95	21.03	21.31	21.22	22.50
	DFT-s-OFDM 16QAM	1	1	21.35	21.32	21.44	21.27	21.29	22.50
	DFT-s-OFDM 64QAM	1	1	19.38	19.29	19.66	19.49	19.47	21.00
	DFT-s-OFDM 256QAM	1	1	17.62	17.57	17.51	17.58	17.65	19.00
	CP-OFDM QPSK	1	1	20.56	20.70	20.58	20.67	20.66	22.00
	CP-OFDM 16QAM	1	1	20.47	20.54	20.33	20.48	20.21	21.50
	CP-OFDM 64QAM	1	1	18.49	18.44	18.52	18.60	18.43	20.00
CP-OFDM 256QAM	1	1	16.86	16.74	16.94	16.91	16.89	18.50	

## 1.5 WLAN Mode

Wi-Fi 2.4G	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Full Power			
802.11b (1M)	1/2412	20.00	<b>19.20</b>
	6/2437	20.00	18.57
	11/2462	20.00	18.83
802.11g (6M)	1/2412	16.00	15.35
	6/2437	18.50	16.60
	11/2462	16.00	15.11
802.11n-HT20 (MCS0)	1/2412	15.00	14.60
	6/2437	18.50	16.46
	11/2462	15.00	14.46
802.11ac-VHT20 (MCS0)	1/2412	15.00	14.70
	6/2437	18.50	16.50
	11/2462	16.00	15.28

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 1			
802.11b (1M)	1/2412	16.00	15.33
	6/2437	16.00	<b>15.62</b>
	11/2462	16.00	15.58
802.11g (6M)	1/2412	14.50	14.25
	6/2437	14.50	14.10
	11/2462	14.50	14.35
802.11n-HT20 (MCS0)	1/2412	14.50	14.12
	6/2437	14.50	14.07
	11/2462	14.50	14.18
802.11ac-VHT20 (MCS0)	1/2412	14.50	14.08
	6/2437	14.50	14.09
	11/2462	14.50	14.15

Note: Initial test configuration is 802.11b mode.





Wi-Fi 2.4G	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 2			
802.11b (1M)	1/2412	10.00	9.50
	6/2437	10.00	9.46
	11/2462	10.00	<b>9.59</b>
802.11g (6M)	1/2412	8.50	8.30
	6/2437	9.00	8.20
	11/2462	9.00	8.27
802.11n-HT20 (MCS0)	1/2412	8.50	8.26
	6/2437	9.00	8.17
	11/2462	9.00	8.26
802.11ac-VHT20 (MCS0)	1/2412	8.50	8.28
	6/2437	9.00	8.15
	11/2462	9.00	8.22

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 4			
802.11b (1M)	1/2412	15.00	<b>14.79</b>
	6/2437	15.00	14.68
	11/2462	15.00	14.69
802.11g (6M)	1/2412	13.50	13.28
	6/2437	13.50	12.90
	11/2462	13.50	13.14
802.11n-HT20 (MCS0)	1/2412	13.50	13.23
	6/2437	13.50	13.02
	11/2462	13.50	13.13
802.11ac-VHT20 (MCS0)	1/2412	13.50	13.21
	6/2437	13.50	13.05
	11/2462	13.50	13.10

Note: Initial test configuration is 802.11b mode.



Wi-Fi 5G (U-NII-1)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Full Power			
802.11a (6M)	36/5180	19.50	18.00
	44/5220	19.50	18.28
	48/5240	19.50	<b>18.50</b>
802.11n-HT20 (MCS0)	36/5180	19.00	17.33
	44/5220	19.00	17.63
	48/5240	19.00	17.82
802.11n-HT40 (MCS0)	38/5190	15.00	14.36
	46/5230	19.00	18.09
802.11ac-VHT20 (MCS0)	36/5180	18.50	16.74
	44/5220	18.50	17.15
	48/5240	18.50	17.27
802.11ac-VHT40 (MCS0)	38/5190	16.00	15.30
	46/5230	18.50	17.69
802.11ac-VHT80 (MCS0)	42/5210	14.00	13.39

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-1)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 1			
802.11a (6M)	36/5180	14.50	<b>14.20</b>
	44/5220	14.50	13.92
	48/5240	14.50	14.14
802.11n-HT20 (MCS0)	36/5180	14.00	13.58
	44/5220	14.00	13.76
	48/5240	14.00	13.56
802.11n-HT40 (MCS0)	38/5190	14.00	13.73
	46/5230	14.00	13.58
802.11ac-VHT20 (MCS0)	36/5180	13.50	12.95
	44/5220	13.50	12.80
	48/5240	13.50	13.21
802.11ac-VHT40 (MCS0)	38/5190	13.50	13.23
	46/5230	13.50	13.09
802.11ac-VHT80 (MCS0)	42/5210	13.50	13.24

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.



Wi-Fi 5G (U-NII-1)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 2			
802.11a (6M)	36/5180	10.50	9.98
	44/5220	10.50	10.04
	48/5240	10.50	<b>10.15</b>
802.11n-HT20 (MCS0)	36/5180	10.00	9.39
	44/5220	10.00	9.35
	48/5240	10.00	9.54
802.11n-HT40 (MCS0)	38/5190	10.00	9.49
	46/5230	10.00	9.36
802.11ac-VHT20 (MCS0)	36/5180	9.50	8.85
	44/5220	9.50	8.55
	48/5240	9.50	8.65
802.11ac-VHT40 (MCS0)	38/5190	9.50	8.98
	46/5230	9.50	8.42
802.11ac-VHT80 (MCS0)	42/5210	9.50	8.95

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-1)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 4			
802.11a (6M)	36/5180	12.50	11.97
	44/5220	12.50	<b>12.22</b>
	48/5240	12.50	11.88
802.11n-HT20 (MCS0)	36/5180	12.00	11.78
	44/5220	12.00	11.54
	48/5240	12.00	11.73
802.11n-HT40 (MCS0)	38/5190	12.00	11.45
	46/5230	12.00	11.70
802.11ac-VHT20 (MCS0)	36/5180	11.50	10.77
	44/5220	11.50	11.07
	48/5240	11.50	11.23
802.11ac-VHT40 (MCS0)	38/5190	11.50	10.99
	46/5230	11.50	11.27
802.11ac-VHT80 (MCS0)	42/5210	11.50	10.92

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.



Wi-Fi 5G (U-NII-2A)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Full Power			
802.11a (6M)	52/5260	19.50	18.51
	60/5300	19.50	18.91
	64/5320	19.50	<b>19.12</b>
802.11n-HT20 (MCS0)	52/5260	19.00	17.80
	56/5280	19.00	18.42
	64/5320	19.00	18.57
802.11n-HT40 (MCS0)	54/5270	19.00	18.61
	62/5310	15.00	14.88
802.11ac-VHT20 (MCS0)	52/5260	18.50	17.57
	56/5280	18.50	18.04
	64/5320	18.50	18.12
802.11ac-VHT40 (MCS0)	54/5270	18.50	18.08
	62/5310	16.00	15.62
802.11ac-VHT80 (MCS0)	58/5290	15.00	14.67

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2A)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 1			
802.11a (6M)	52/5260	14.50	13.71
	60/5300	14.50	<b>14.30</b>
	64/5320	14.50	14.13
802.11n-HT20 (MCS0)	52/5260	14.00	13.59
	56/5280	14.00	13.73
	64/5320	14.00	13.28
802.11n-HT40 (MCS0)	54/5270	14.00	13.62
	62/5310	14.00	13.78
802.11ac-VHT20 (MCS0)	52/5260	13.50	12.84
	56/5280	13.50	13.25
	64/5320	13.50	12.94
802.11ac-VHT40 (MCS0)	54/5270	13.50	13.12
	62/5310	13.50	13.02
802.11ac-VHT80 (MCS0)	58/5290	13.50	12.88

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2A)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 2			
802.11a (6M)	52/5260	10.50	<b>10.25</b>
	60/5300	10.50	9.86
	64/5320	10.50	9.80
802.11n-HT20 (MCS0)	52/5260	10.00	9.60
	56/5280	10.00	9.63
	64/5320	10.00	9.62
802.11n-HT40 (MCS0)	54/5270	10.00	9.31
	62/5310	10.00	9.33
802.11ac-VHT20 (MCS0)	52/5260	9.50	8.67
	56/5280	9.50	9.22
	64/5320	9.50	9.12
802.11ac-VHT40 (MCS0)	54/5270	9.50	8.67
	62/5310	9.50	8.90
802.11ac-VHT80 (MCS0)	58/5290	9.50	8.91

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2A)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 4			
802.11a (6M)	52/5260	12.50	11.96
	60/5300	12.50	11.95
	64/5320	12.50	<b>12.06</b>
802.11n-HT20 (MCS0)	52/5260	12.00	11.47
	56/5280	12.00	11.76
	64/5320	12.00	11.46
802.11n-HT40 (MCS0)	54/5270	12.00	11.62
	62/5310	12.00	11.47
802.11ac-VHT20 (MCS0)	52/5260	11.50	10.93
	56/5280	11.50	11.25
	64/5320	11.50	10.92
802.11ac-VHT40 (MCS0)	54/5270	11.50	11.20
	62/5310	11.50	10.70
802.11ac-VHT80 (MCS0)	58/5290	11.50	10.93

Note. Initial test configuration is 802.11a mode, since the highest maximum output power



Wi-Fi 5G (U-NII-2C)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Full Power			
802.11a (6M)	100/5500	19.50	<b>19.08</b>
	116/5580	19.50	19.02
	132/5660	19.50	18.91
	140/5700	19.50	18.78
802.11n-HT20 (MCS0)	100/5500	19.00	18.52
	116/5580	19.00	18.62
	132/5660	19.00	18.34
	140/5700	19.00	18.22
802.11n-HT40 (MCS0)	102/5510	15.00	14.85
	118/5590	19.00	18.68
	126/5630	19.00	18.29
	134/5670	19.00	18.50
802.11ac-VHT20 (MCS0)	100/5500	18.50	18.41
	116/5580	18.50	18.19
	132/5660	18.50	17.94
	140/5700	18.50	17.76
802.11ac-VHT40 (MCS0)	102/5510	16.00	15.30
	118/5590	18.50	18.16
	126/5630	18.50	18.07
	134/5670	18.50	18.02
802.11ac-VHT80 (MCS0)	106/5530	15.00	14.18
	122/5610	18.50	18.01

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2C) Level 1	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	14.50	13.90
	116/5580	14.50	14.12
	132/5660	14.50	14.11
	140/5700	14.50	<b>14.20</b>
802.11n-HT20 (MCS0)	100/5500	14.00	13.95
	116/5580	14.00	13.37
	132/5660	14.00	13.42
	140/5700	14.00	13.60
802.11n-HT40 (MCS0)	102/5510	14.00	13.42
	118/5590	14.00	13.70
	126/5630	14.00	13.47
	134/5670	14.00	13.58
802.11ac-VHT20 (MCS0)	100/5500	13.50	12.78
	116/5580	13.50	13.03
	132/5660	13.50	13.01
	140/5700	13.50	13.11
802.11ac-VHT40 (MCS0)	102/5510	13.50	12.96
	118/5590	13.50	13.22
	126/5630	13.50	13.18
	134/5670	13.50	13.02
802.11ac-VHT80 (MCS0)	106/5530	13.50	13.06
	122/5610	13.50	13.18

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-2C)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 2			
802.11a (6M)	100/5500	10.50	9.42
	116/5580	10.50	9.97
	132/5660	10.50	9.86
	140/5700	10.50	<b>10.10</b>
802.11n-HT20 (MCS0)	100/5500	10.00	9.26
	116/5580	10.00	9.16
	132/5660	10.00	9.17
	140/5700	10.00	9.32
802.11n-HT40 (MCS0)	102/5510	10.00	9.22
	118/5590	10.00	9.36
	126/5630	10.00	9.23
	134/5670	10.00	9.34
802.11ac-VHT20 (MCS0)	100/5500	9.50	9.15
	116/5580	9.50	9.07
	132/5660	9.50	9.03
	140/5700	9.50	9.09
802.11ac-VHT40 (MCS0)	102/5510	9.50	9.12
	118/5590	9.50	9.03
	126/5630	9.50	9.10
	134/5670	9.50	9.13
802.11ac-VHT80 (MCS0)	106/5530	9.50	9.15
	122/5610	9.50	8.87

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.



Wi-Fi 5G (U-NII-2C)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 4			
802.11a (6M)	100/5500	12.50	<b>11.97</b>
	116/5580	12.50	11.02
	132/5660	12.50	11.02
	140/5700	12.50	11.08
802.11n-HT20 (MCS0)	100/5500	12.00	11.47
	116/5580	12.00	11.44
	132/5660	12.00	11.35
	140/5700	12.00	11.36
802.11n-HT40 (MCS0)	102/5510	12.00	11.50
	118/5590	12.00	11.63
	126/5630	12.00	11.52
	134/5670	12.00	11.47
802.11ac-VHT20 (MCS0)	100/5500	11.50	10.89
	116/5580	11.50	10.92
	132/5660	11.50	10.78
	140/5700	11.50	10.89
802.11ac-VHT40 (MCS0)	102/5510	11.50	11.05
	118/5590	11.50	11.12
	126/5630	11.50	11.02
	134/5670	11.50	10.96
802.11ac-VHT80 (MCS0)	106/5530	11.50	11.16
	122/5610	11.50	11.03

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.



Wi-Fi 5G (U-NII-3)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Full Power			
802.11a (6M)	149/5745	19.50	19.06
	157/5785	19.50	<b>19.11</b>
	165/5825	19.50	19.03
802.11n-HT20 (MCS0)	149/5745	19.00	18.47
	157/5785	19.00	18.38
	165/5825	19.00	18.28
802.11n-HT40 (MCS0)	151/5755	19.00	18.84
	159/5795	19.00	18.83
802.11ac-VHT20 (MCS0)	149/5745	18.50	17.97
	157/5785	18.50	17.92
	165/5825	18.50	17.81
802.11ac-VHT40 (MCS0)	151/5755	18.50	18.34
	159/5795	18.50	18.27
802.11ac-VHT80 (MCS0)	155/5775	18.50	18.17

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-3)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 1			
802.11a (6M)	149/5745	14.50	<b>14.21</b>
	157/5785	14.50	14.02
	165/5825	14.50	14.00
802.11n-HT20 (MCS0)	149/5745	14.00	13.72
	157/5785	14.00	13.47
	165/5825	14.00	13.49
802.11n-HT40 (MCS0)	151/5755	14.00	13.57
	159/5795	14.00	13.78
802.11ac-VHT20 (MCS0)	149/5745	13.50	13.06
	157/5785	13.50	13.04
	165/5825	13.50	13.05
802.11ac-VHT40 (MCS0)	151/5755	13.50	13.10
	159/5795	13.50	13.23
802.11ac-VHT80 (MCS0)	155/5775	13.50	13.16

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.



Wi-Fi 5G (U-NII-3) Level 2	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	10.50	<b>9.86</b>
	157/5785	10.50	9.60
	165/5825	10.50	9.54
802.11n-HT20 (MCS0)	149/5745	10.00	9.63
	157/5785	10.00	9.46
	165/5825	10.00	9.37
802.11n-HT40 (MCS0)	151/5755	10.00	9.64
	159/5795	10.00	9.39
802.11ac-VHT20 (MCS0)	149/5745	9.50	9.07
	157/5785	9.50	9.02
	165/5825	9.50	8.96
802.11ac-VHT40 (MCS0)	151/5755	9.50	8.82
	159/5795	9.50	8.83
802.11ac-VHT80 (MCS0)	155/5775	9.50	8.76

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-3) Level 4 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	12.50	12.04
	157/5785	12.50	<b>12.06</b>
	165/5825	12.50	12.03
802.11n-HT20 (MCS0)	149/5745	12.00	11.75
	157/5785	12.00	11.44
	165/5825	12.00	11.32
802.11n-HT40 (MCS0)	151/5755	12.00	11.71
	159/5795	12.00	11.54
802.11ac-VHT20 (MCS0)	149/5745	11.50	10.63
	157/5785	11.50	10.83
	165/5825	11.50	10.89
802.11ac-VHT40 (MCS0)	151/5755	11.50	11.10
	159/5795	11.50	11.02
802.11ac-VHT80 (MCS0)	155/5775	11.50	11.03

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

## 1.6 Bluetooth Mode

BT	Conducted Power(dBm)			Tune-up Limit (dBm)
	Channel/Frequency(MHz)			
	Ch 0/2402 MHz	Ch 39/2441 MHz	Ch 78/2480 MHz	
GFSK	12.87	13.02	12.74	14.00
$\pi/4$ DQPSK	10.61	10.74	10.55	12.00
8DPSK	10.78	10.95	10.70	12.00
BLE	Ch 0/2402 MHz	Ch 19/2440 MHz	Ch 39/2480 MHz	Tune-up Limit (dBm)
GFSK(1M)	8.60	8.37	9.71	10.00
GFSK(2M)	8.64	8.78	9.74	10.00