

Manufacturing Tune-up limit

WCDMA

WCDMA band II

Mode		Carrier frequency (MHz)	Channel No.	Full power Tune-up limit (dBm)	Reduced Power Tune-up limit (dBm)
Release 99	RMC,12.2kbps	1852.4	9262	22.0	14.0
		1880.0	9400		
		1907.6	9538		
	RMC,64kbps	1852.4	9262		
		1880.0	9400		
		1907.6	9538		
	RMC,144kbps	1852.4	9262		
		1880.0	9400		
		1907.6	9538		
	RMC,384kbps	1852.4	9262		
		1880.0	9400		
		1907.6	9538		
HSDPA	Subtest 1	1852.4	9262	21.5	13.5
		1880.0	9400		
		1907.6	9538		
	Subtest 2	1852.4	9262		
		1880.0	9400		
		1907.6	9538		
	Subtest 3	1852.4	9262		
		1880.0	9400		
		1907.6	9538		
	Subtest 4	1852.4	9262		
		1880.0	9400		
		1907.6	9538		
HSUPA	Subtest 1	1852.4	9262	21.5	13.5
		1880.0	9400		
		1907.6	9538		
	Subtest 2	1852.4	9262		
		1880.0	9400		
		1907.6	9538		
	Subtest 3	1852.4	9262		
		1880.0	9400		
		1907.6	9538		
	Subtest 4	1852.4	9262		
		1880.0	9400		
		1907.6	9538		
	Subtest 5	1852.4	9262		
		1880.0	9400		
		1907.6	9538		
HSPA+	QPSK	1852.4	9262	21.5	13.5
		1880.0	9400		
		1907.6	9538		
	16QAM	1852.4	9262		
		1880.0	9400		
		1907.6	9538		
DA-HSDPA	Subtest 1	1852.4	9262	21.5	13.5
		1880.0	9400		

	Subtest 2	1907.6	9538		
		1852.4	9262		
		1880.0	9400		
		1907.6	9538		
	Subtest 3	1852.4	9262		
		1880.0	9400		
		1907.6	9538		
	Subtest 4	1852.4	9262		
		1880.0	9400		
		1907.6	9538		

WCDMA band IV

Mode		Carrier frequency (MHz)	Channel No.	Full power Tune-up limit (dBm)	Reduced Power Tune-up limit (dBm)
Release 99	RMC,12.2kbps	1712.4	1312	23.0	14.0
		1732.4	1412		
		1752.6	1513		
	RMC,64kbps	1712.4	1312		
		1732.4	1412		
		1752.6	1513		
	RMC,144kbps	1712.4	1312		
		1732.4	1412		
		1752.6	1513		
	RMC,384kbps	1712.4	1312		
		1732.4	1412		
		1752.6	1513		
HSDPA	Subtest 1	1712.4	1312	22.0	13.0
		1732.4	1412		
		1752.6	1513		
	Subtest 2	1712.4	1312		
		1732.4	1412		
		1752.6	1513		
	Subtest 3	1712.4	1312		
		1732.4	1412		
		1752.6	1513		
	Subtest 4	1712.4	1312		
		1732.4	1412		
		1752.6	1513		
HSUPA	Subtest 1	1712.4	1312	22.0	13.0
		1732.4	1412		
		1752.6	1513		
	Subtest 2	1712.4	1312		
		1732.4	1412		
		1752.6	1513		
	Subtest 3	1712.4	1312		
		1732.4	1412		
		1752.6	1513		
	Subtest 4	1712.4	1312		
		1732.4	1412		
		1752.6	1513		
	Subtest 5	1712.4	1312		
		1732.4	1412		
		1752.6	1513		
HSPA+	QPSK	1712.4	1312	22.0	13.0

	16QAM	1732.4	1412		
		1752.6	1513		
		1712.4	1312		
		1732.4	1412		
		1752.6	1513		
DA-HSDPA	Subtest 1	1712.4	1312	22.0	13.0
		1732.4	1412		
		1752.6	1513		
	Subtest 2	1712.4	1312		
		1732.4	1412		
		1752.6	1513		
	Subtest 3	1712.4	1312		
		1732.4	1412		
		1752.6	1513		
	Subtest 4	1712.4	1312		
		1732.4	1412		
		1752.6	1513		

WCDMA band V

Mode		Carrier frequency (MHz)	Channel No.	Full power Tune-up limit (dBm)	Reduced Power Tune-up limit (dBm)
Release 99	RMC,12.2kbps	826.4	4132	23.0	19.0
		836.6	4183		
		846.6	4233		
	RMC,64kbps	826.4	4132		
		836.6	4183		
		846.6	4233		
	RMC,144kbps	826.4	4132		
		836.6	4183		
		846.6	4233		
	RMC,384kbps	826.4	4132		
		836.6	4183		
		846.6	4233		
HSDPA	Subtest 1	826.4	4132	22.0	18.0
		836.6	4183		
		846.6	4233		
	Subtest 2	826.4	4132		
		836.6	4183		
		846.6	4233		
	Subtest 3	826.4	4132		
		836.6	4183		
		846.6	4233		
	Subtest 4	826.4	4132		
		836.6	4183		
		846.6	4233		
HSUPA	Subtest 1	826.4	4132	22.0	18.0
		836.6	4183		
		846.6	4233		
	Subtest 2	826.4	4132		
		836.6	4183		
		846.6	4233		
	Subtest 3	826.4	4132		
		836.6	4183		
		846.6	4233		

	Subtest 4	826.4	4132		
		836.6	4183		
		846.6	4233		
	Subtest 5	826.4	4132		
		836.6	4183		
		846.6	4233		
HSPA+	QPSK	826.4	4132	22.0	18.0
		836.6	4183		
		846.6	4233		
	16QAM	826.4	4132		
		836.6	4183		
		846.6	4233		
DA-HSDPA	Subtest 1	826.4	4132	22.0	18.0
		836.6	4183		
		846.6	4233		
	Subtest 2	826.4	4132		
		836.6	4183		
		846.6	4233		
	Subtest 3	826.4	4132		
		836.6	4183		
		846.6	4233		
	Subtest 4	826.4	4132		
		836.6	4183		
		846.6	4233		

LTE

Note: RB allocation mentioned below is for all Bandwidths, and the Frequency Range are divided to 3 ranges (Low, Mid, High)

Band 2

BW	Modulation	RB allocation with different offset	Frequency range	Full power Tune-up limit (dBm)	Reduced Power Tune-up limit (dBm)
All Bandwidth	QPSK	1	Low	21.5	14.5
			Mid		
			High		
		50%	Low	20.5	13.5
			Mid		
			High		
		100%	Low	20.5	13.5
			Mid		
			High		
	16QAM	1	Low	20.5	13.5
			Mid		
			High		
		50%	Low	19.5	12.5
			Mid		
			High		
100%		Low	19.5	12.5	
		Mid			
		High			

Band 4

BW	Modulation	RB allocation with different offset	Frequency range	Full power Tune-up limit (dBm)	Reduced Power Tune-up limit (dBm)
All Bandwidth	QPSK	1	Low	23.5	14.5
			Mid		
			High		
		50%	Low	22.5	13.5
			Mid		
			High		
		100%	Low	22.5	13.5
			Mid		
			High		
	16QAM	1	Low	22.5	13.5
			Mid		
			High		
		50%	Low	21.5	12.5
			Mid		
			High		
100%		Low	21.5	12.5	
		Mid			
		High			

Band 5

BW	Modulation	RB allocation with different offset	Frequency range	Full power Tune-up limit (dBm)	Reduced Power Tune-up limit (dBm)
All Bandwidth	QPSK	1	Low	23.5	18.5
			Mid		
			High		
		50%	Low	22.5	17.5
			Mid		
			High		
		100%	Low	22.5	17.5
			Mid		
			High		
	16QAM	1	Low	22.5	17.5
			Mid		
			High		
		50%	Low	21.5	16.5
			Mid		
			High		
100%		Low	21.5	16.5	
		Mid			
		High			

Band 12

BW	Modulation	RB allocation with different offset	Frequency range	Full power Tune-up limit (dBm)	Reduced Power Tune-up limit (dBm)
All Bandwidth	QPSK	1	Low	22.0	20.0
			Mid		
			High		
		50%	Low	21.0	19.0
			Mid		
			High		
		100%	Low	21.0	19.0
			Mid		
			High		
	16QAM	1	Low	21.0	19.0
			Mid		
			High		
		50%	Low	20.0	18.0
			Mid		
			High		
100%		Low	20.0	18.0	
		Mid			
		High			

Band 13

BW	Modulation	RB allocation with different offset	Frequency range	Full power Tune-up limit (dBm)	Reduced Power Tune-up limit (dBm)
All Bandwidth	QPSK	1	Low	24.0	20.0
			Mid		
			High		
		50%	Low	23.0	19.0
			Mid		
			High		
		100%	Low	23.0	19.0
			Mid		
			High		
	16QAM	1	Low	23.0	19.0
			Mid		
			High		
		50%	Low	22.0	18.0
			Mid		
			High		
100%		Low	22.0	18.0	
		Mid			
		High			

Band 25

BW	Modulation	RB allocation with different offset	Frequency range	Full power Tune-up limit (dBm)	Reduced Power Tune-up limit (dBm)
All Bandwidth	QPSK	1	Low	21.5	14.5
			Mid		
			High		
		50%	Low	20.5	13.5
			Mid		
			High		
		100%	Low	20.5	13.5
			Mid		
			High		
	16QAM	1	Low	20.5	13.0
			Mid		
			High		
		50%	Low	19.5	12.5
			Mid		
			High		
100%		Low	19.5	12.5	
		Mid			
		High			

Band 26

BW	Modulation	RB allocation with different offset	Frequency range	Full power Tune-up limit (dBm)	Reduced Power Tune-up limit (dBm)
All Bandwidth	QPSK	1	Low	24.0	19.0
			Mid		
			High		
		50%	Low	23.0	18.0
			Mid		
			High		
		100%	Low	23.0	18.0
			Mid		
			High		
	16QAM	1	Low	23.0	18.0
			Mid		
			High		
		50%	Low	22.0	17.0
			Mid		
			High		
100%		Low	22.0	17.0	
		Mid			
		High			

Band 41

BW	Modulation	RB allocation with different offset	Frequency range	Full power Tune-up limit (dBm)	Reduced Power Tune-up limit (dBm)
All Bandwidth	QPSK	1	Low	24.5	19.5
			Mid		
			High		
		50%	Low	23.5	18.5
			Mid		
			High		
		100%	Low	23.5	18.5
			Mid		
			High		
	16QAM	1	Low	23.5	18.5
			Mid		
			High		
		50%	Low	22.5	17.5
			Mid		
			High		
100%		Low	22.5	17.5	
		Mid			
		High			

Band 66

BW	Modulation	RB allocation with different offset	Frequency range	Full power Tune-up limit (dBm)	Reduced Power Tune-up limit (dBm)
All Bandwidth	QPSK	1	Low	24.5	15.5
			Mid		
			High		
		50%	Low	23.5	14.5
			Mid		
			High		
		100%	Low	23.5	14.5
			Mid		
			High		
	16QAM	1	Low	23.5	14.0
			Mid		
			High		
		50%	Low	22.5	13.5
			Mid		
			High		
100%		Low	22.5	13.5	
		Mid			
		High			

Band 71

BW	Modulation	RB allocation with different offset	Frequency range	Full power Tune-up limit (dBm)	Reduced Power Tune-up limit (dBm)
All Bandwidth	QPSK	1	Low	24.5	20.5
			Mid		
			High		
		50%	Low	23.5	19.5
			Mid		
			High		
		100%	Low	23.5	19.5
			Mid		
			High		
	16QAM	1	Low	23.5	19.5
			Mid		
			High		
		50%	Low	22.5	18.5
			Mid		
			High		
100%		Low	22.5	18.5	
		Mid			
		High			

WLAN 2.4GHz

Modulation type	Full power Tune-up limit (dBm)		
	2412MHz	2437MHz	2462MHz
11b	16.0		
11g	14.0		
11n HT20	13.0		
Modulation type	2422MHz	2437MHz	2452MHz
11n HT40	12.0		