





































Occupied Bandwidth

Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.72	2.74	4.51	4.48	9.07	9.07	13.46	13.43	18.38	18.26
Middle CH	1.09	1.09	2.72	2.72	4.49	4.48	9.07	8.99	13.40	13.43	18.26	18.38
Highest CH	1.09	1.09	2.73	2.73	4.50	4.50	8.97	9.01	13.37	13.49	18.26	18.34
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.73		4.49		9.05		13.43		18.46	
Middle CH	1.09		2.73		4.49		9.09		13.40		18.54	
Highest CH	1.09		2.72		4.48		9.01		13.40		18.42	

Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.10	2.71	2.71	4.51	4.50	9.03	9.03	13.43	13.46	18.18	18.46
Middle CH	1.09	1.09	2.71	2.72	4.49	4.48	9.05	8.99	13.40	13.37	18.42	18.30
Highest CH	1.09	1.09	2.70	2.72	4.51	4.49	9.01	9.09	13.43	13.43	18.30	18.38
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.75		4.49		9.03		13.46		18.38	
Middle CH	1.09		2.70		4.50		9.03		13.43		18.38	
Highest CH	1.09		2.72		4.47		9.03		13.46		18.42	



Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.08	2.71	2.72	4.50	4.50	9.07	9.01				
Middle CH	1.09	1.09	2.72	2.70	4.50	4.49	9.03	8.99				
Highest CH	1.09	1.09	2.72	2.73	4.50	4.50	9.01	9.07				
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	64QAM		64QAM		64QAM		64QAM					
Lowest CH	1.09		2.73		4.51		9.07		-	-	-	-
Middle CH	1.09		2.73		4.49		8.99		-	-	-	-
Highest CH	1.09		2.73		4.49		8.99		-	-	-	-

Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.51	9.11	9.05	13.49	13.52	18.30	18.38
Middle CH	-	-	-	-	4.49	4.47	9.05	8.99	13.40	13.43	18.18	18.26
Highest CH	-	-	-	-	4.49	4.50	9.01	9.07	13.43	13.34	18.22	18.30
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50		9.11		13.46		18.50	
Middle CH	-	-	-	-	4.50		9.09		13.43		18.26	
Highest CH	-	-	-	-	4.50		9.05		13.43		18.26	

Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		1.4MHz	3MHz	5MHz	10MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	1.09	1.10	2.73	2.73	4.49	4.54	9.03	8.99	1.09	2.73	4.50	9.05
Middle CH	1.09	1.10	2.74	2.72	4.51	4.48	9.03	8.99	1.09	2.72	4.50	8.99
Highest CH	1.09	1.09	2.72	2.72	4.51	4.53	9.05	9.01	1.09	2.73	4.48	8.99



Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH					4.47	4.50						
Middle CH					4.50	4.51	8.97	8.99				
Highest CH					4.49	4.50						

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH					4.48							
Middle CH					4.49		9.01					
Highest CH					4.51							

Mode	LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.10	2.72	2.72	4.49	4.51	9.01	9.03	13.37	13.46	18.38	18.18
Middle CH	1.09	1.09	2.74	2.71	4.52	4.47	9.11	9.05	13.46	13.46	18.46	18.38
Highest CH	1.10	1.10	2.71	2.73	4.49	4.50	9.07	9.05	13.46	13.49	18.18	18.34

Mode	LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.72		4.51		8.99		13.43		18.42	
Middle CH	1.09		2.72		4.50		9.07		13.40		18.26	
Highest CH	1.09		2.72		4.53		9.03		13.40		18.38	

























