LTE Band 17				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	4.99
	Low	16QAM	4.51	4.96
	Low	64QAM	4.50	4.95
	Mid	QPSK	4.50	4.97
	Mid	16QAM	4.50	4.96
	Mid	64QAM	4.50	4.93
	High	QPSK	4.49	4.98
	High	16QAM	4.50	4.98
	High	64QAM	4.49	4.95
10	Low	QPSK	9.01	9.78
	Low	16QAM	8.95	9.75
	Low	64QAM	8.97	9.81
	Mid	QPSK	8.96	9.83
	Mid	16QAM	8.95	9.73
	Mid	64QAM	8.96	9.79
	High	QPSK	8.98	9.78
	High	16QAM	8.94	9.70
	High	64QAM	8.96	9.76

LTE Band 18				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.49	4.96
	Low	16QAM	4.49	4.97
	Low	64QAM	4.49	4.97
	Mid	QPSK	4.49	4.96
	Mid	16QAM	4.49	4.95
	Mid	64QAM	4.49	4.96
	High	QPSK	4.49	4.97
	High	16QAM	4.49	4.98
	High	64QAM	4.49	4.95

LTE Band 19				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.51	4.94
	Low	16QAM	4.50	4.94
	Low	64QAM	4.50	4.96
	Mid	QPSK	4.50	4.98
	Mid	16QAM	4.50	4.95
	Mid	64QAM	4.49	4.96
	High	QPSK	4.49	4.90
	High	16QAM	4.48	4.76
	High	64QAM	4.50	4.83
10	Low	QPSK	8.99	9.80
	Low	16QAM	8.94	9.77
	Low	64QAM	8.98	9.85
	Mid	QPSK	9.00	9.84
	Mid	16QAM	8.95	9.71
	Mid	64QAM	8.98	9.81
	High	QPSK	8.96	9.43
	High	16QAM	8.96	9.71
	High	64QAM	8.96	9.51
15	Low	QPSK	13.48	14.63
	Low	16QAM	13.48	14.82
	Low	64QAM	13.46	14.68
	Mid	QPSK	13.47	14.63
	Mid	16QAM	13.47	14.68
	Mid	64QAM	13.45	14.75
	High	QPSK	13.46	14.74
	High	16QAM	13.47	14.63
	High	64QAM	13.48	14.67

LTE Band 26				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.24
	Low	16QAM	1.09	1.23
	Low	64QAM	1.09	1.24
	Mid	QPSK	1.09	1.24
	Mid	16QAM	1.09	1.24
	Mid	64QAM	1.09	1.23
	High	QPSK	1.09	1.23
	High	16QAM	1.09	1.23
	High	64QAM	1.09	1.22
3	Low	QPSK	2.69	2.96
	Low	16QAM	2.70	3.00
	Low	64QAM	2.70	2.98
	Mid	QPSK	2.69	3.01
	Mid	16QAM	2.69	2.98
	Mid	64QAM	2.69	2.99
	High	QPSK	2.69	3.00
	High	16QAM	2.69	2.99
	High	64QAM	2.69	2.99
5	Low	QPSK	4.49	4.99
	Low	16QAM	4.50	4.95
	Low	64QAM	4.50	4.96
	Mid	QPSK	4.49	4.97
	Mid	16QAM	4.49	4.96
	Mid	64QAM	4.49	4.97
	High	QPSK	4.49	4.95
	High	16QAM	4.49	4.94
	High	64QAM	4.48	4.96
10	Low	QPSK	8.97	9.74
	Low	16QAM	9.00	9.72
	Low	64QAM	8.97	9.71
	Mid	QPSK	8.97	9.74
	Mid	16QAM	8.97	9.77
	Mid	64QAM	8.98	9.74
	High	QPSK	8.98	9.77
	High	16QAM	8.97	9.63
	High	64QAM	8.95	9.79

15	Low	QPSK	13.46	14.62
	Low	16QAM	13.44	14.52
	Low	64QAM	13.45	14.59
	Mid	QPSK	13.49	14.70
	Mid	16QAM	13.48	14.57
	Mid	64QAM	13.46	14.56
	High	QPSK	13.49	14.64
	High	16QAM	13.47	14.61
	High	64QAM	13.44	14.54

LTE Band 38				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	4.91
	Low	16QAM	4.51	4.94
	Low	64QAM	4.48	4.93
	Mid	QPSK	4.50	4.98
	Mid	16QAM	4.50	4.96
	Mid	64QAM	4.49	4.96
	High	QPSK	4.50	4.92
	High	16QAM	4.49	4.93
	High	64QAM	4.50	4.96
10	Low	QPSK	8.97	9.73
	Low	16QAM	8.97	9.71
	Low	64QAM	8.98	9.78
	Mid	QPSK	8.97	9.74
	Mid	16QAM	8.96	9.78
	Mid	64QAM	8.96	9.78
	High	QPSK	8.96	9.74
	High	16QAM	8.97	9.73
	High	64QAM	8.97	9.73
15	Low	QPSK	13.45	14.58
	Low	16QAM	13.47	14.77
	Low	64QAM	13.45	14.53
	Mid	QPSK	13.44	14.55
	Mid	16QAM	13.50	14.77
	Mid	64QAM	13.46	14.62
	High	QPSK	13.48	14.63
	High	16QAM	13.46	14.62
	High	64QAM	13.44	14.64
20	Low	QPSK	17.97	19.37
	Low	16QAM	17.91	19.46
	Low	64QAM	17.94	19.47
	Mid	QPSK	17.93	19.40
	Mid	16QAM	17.96	19.52
	Mid	64QAM	17.92	19.49
	High	QPSK	17.95	19.47
	High	16QAM	17.92	19.48
	High	64QAM	17.92	19.32

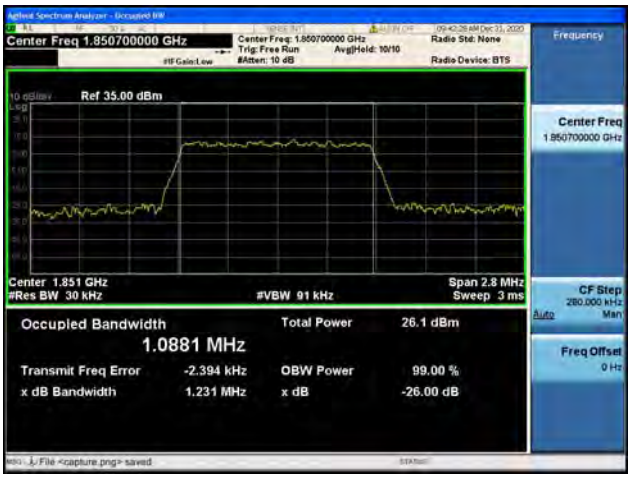
LTE Band 40, Block A				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	4.97
	Low	16QAM	4.49	4.95
	Low	64QAM	4.49	4.94
	Mid	QPSK	4.49	4.97
	Mid	16QAM	4.49	4.95
	Mid	64QAM	4.50	4.92
	High	QPSK	4.50	4.95
	High	16QAM	4.49	4.95
	High	64QAM	4.49	4.97
10	Mid	QPSK	8.95	9.68
	Mid	16QAM	8.94	9.69
	Mid	64QAM	8.96	9.66

LTE Band 40, Block B				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.49	4.91
	Low	16QAM	4.50	4.93
	Low	64QAM	4.49	4.97
	Mid	QPSK	4.49	4.97
	Mid	16QAM	4.49	4.95
	Mid	64QAM	4.49	4.96
	High	QPSK	4.50	4.93
	High	16QAM	4.49	4.94
	High	64QAM	4.50	4.86
10	Mid	QPSK	8.97	9.72
	Mid	16QAM	8.97	9.73
	Mid	64QAM	8.95	9.63

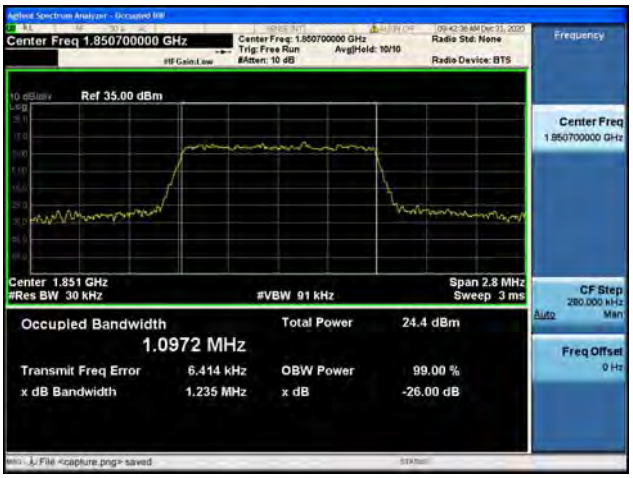
LTE Band 66				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.23
	Low	16QAM	1.09	1.23
	Low	64QAM	1.09	1.22
	Mid	QPSK	1.09	1.23
	Mid	16QAM	1.09	1.23
	Mid	64QAM	1.09	1.22
	High	QPSK	1.09	1.23
	High	16QAM	1.09	1.23
	High	64QAM	1.09	1.23
3	Low	QPSK	2.69	2.98
	Low	16QAM	2.70	2.96
	Low	64QAM	2.69	2.95
	Mid	QPSK	2.69	2.99
	Mid	16QAM	2.69	2.98
	Mid	64QAM	2.69	2.98
	High	QPSK	2.70	3.00
	High	16QAM	2.69	2.97
	High	64QAM	2.69	2.98
5	Low	QPSK	4.49	4.98
	Low	16QAM	4.48	4.94
	Low	64QAM	4.49	4.93
	Mid	QPSK	4.50	4.99
	Mid	16QAM	4.49	4.94
	Mid	64QAM	4.49	4.94
	High	QPSK	4.49	4.96
	High	16QAM	4.49	4.96
	High	64QAM	4.48	4.98
10	Low	QPSK	8.97	9.72
	Low	16QAM	8.96	9.79
	Low	64QAM	8.98	9.74
	Mid	QPSK	8.99	9.78
	Mid	16QAM	8.98	9.72
	Mid	64QAM	8.97	9.73
	High	QPSK	8.97	9.77
	High	16QAM	8.95	9.73
	High	64QAM	8.98	9.74

15	Low	QPSK	13.43	14.60
	Low	16QAM	13.47	14.56
	Low	64QAM	13.47	14.48
	Mid	QPSK	13.44	14.50
	Mid	16QAM	13.45	14.57
	Mid	64QAM	13.47	14.49
	High	QPSK	13.45	14.60
	High	16QAM	13.47	14.58
	High	64QAM	13.44	14.53
20	Low	QPSK	17.92	19.51
	Low	16QAM	17.92	19.29
	Low	64QAM	17.94	19.35
	Mid	QPSK	17.93	20.71
	Mid	16QAM	17.94	19.32
	Mid	64QAM	17.94	19.26
	High	QPSK	17.96	19.33
	High	16QAM	17.96	19.43
	High	64QAM	17.95	19.21

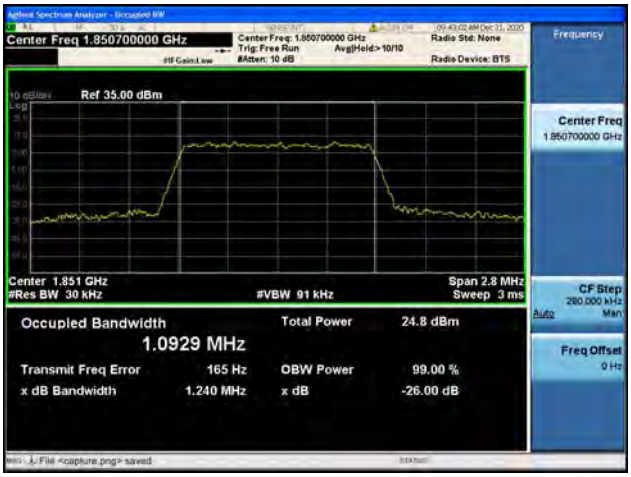
Band2 / 1.4MHz / Low CH / QPSK



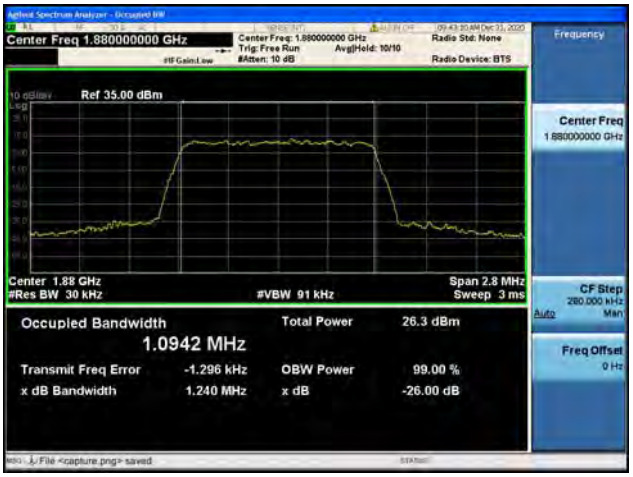
Band2 / 1.4MHz / Low CH / 16QAM



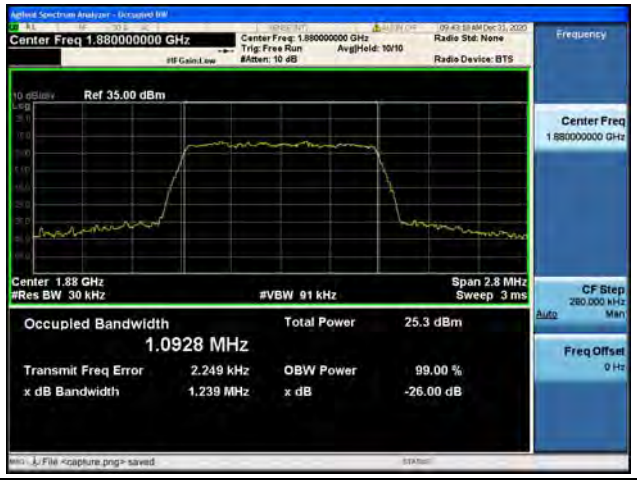
Band2 / 1.4MHz / Low CH / 64QAM



Band2 / 1.4MHz / Mid CH / QPSK

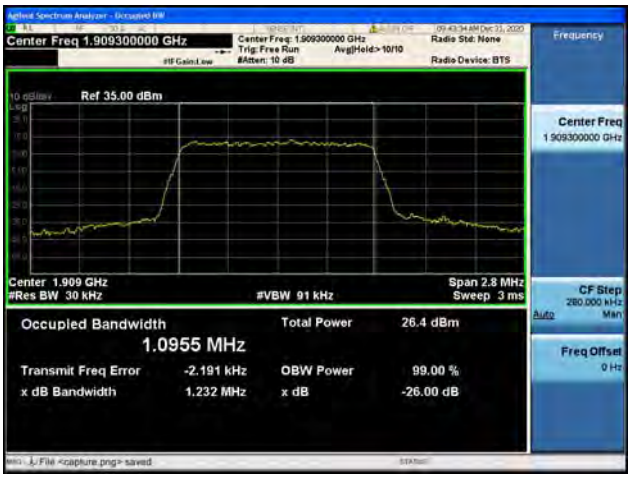


Band2 / 1.4MHz / Mid CH / 16QAM

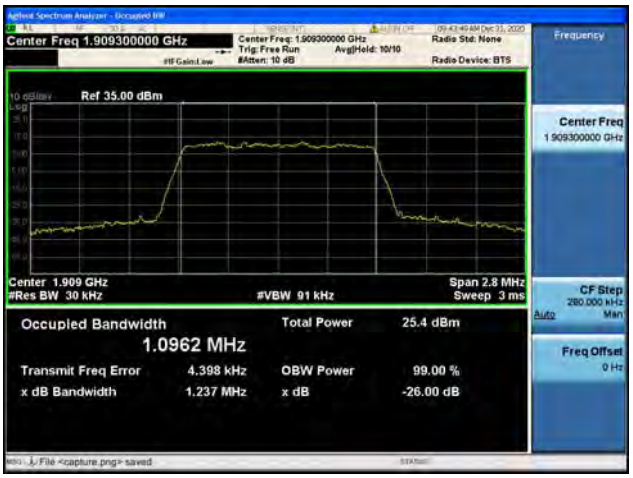


Band2 / 1.4MHz / Mid CH / 64QAM

Band2 / 1.4MHz / High CH / QPSK



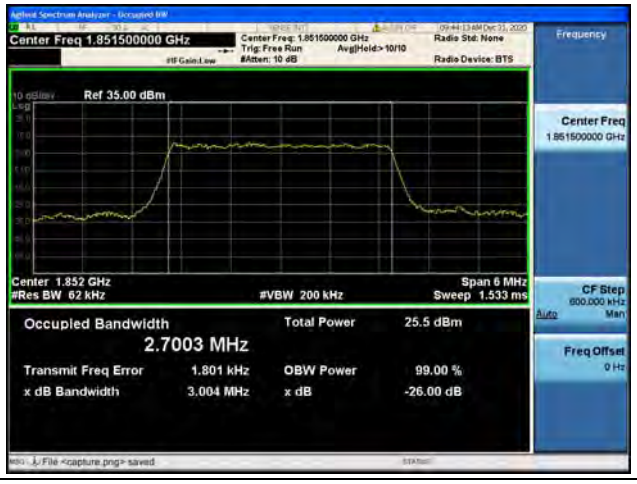
Band2 / 1.4MHz / High CH / 16QAM



Band2 / 1.4MHz / High CH / 64QAM

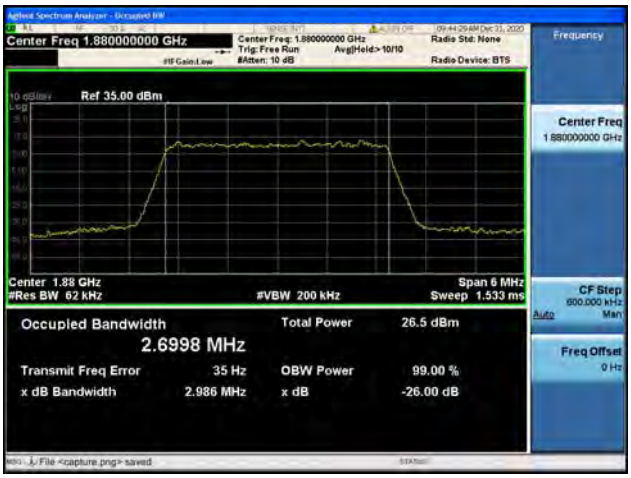
Band2 / 3MHz / Low CH / QPSK

Band2 / 3MHz / Low CH / 16QAM

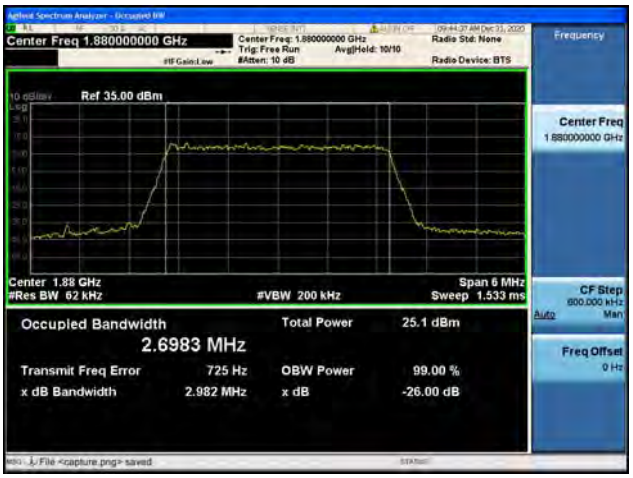


Band2 / 3MHz / Low CH / 64QAM

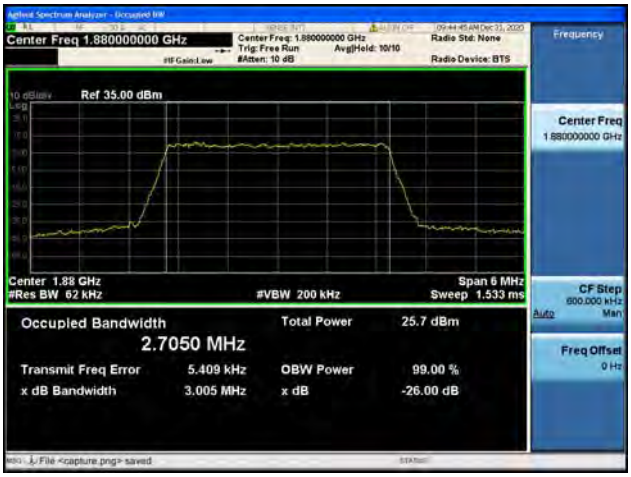
Band2 / 3MHz / Mid CH / QPSK



Band2 / 3MHz / Mid CH / 16QAM

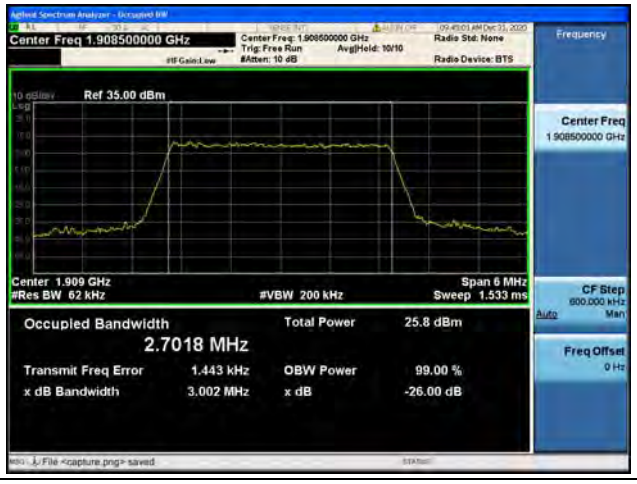


Band2 / 3MHz / Mid CH / 64QAM



Band2 / 3MHz / High CH / QPSK

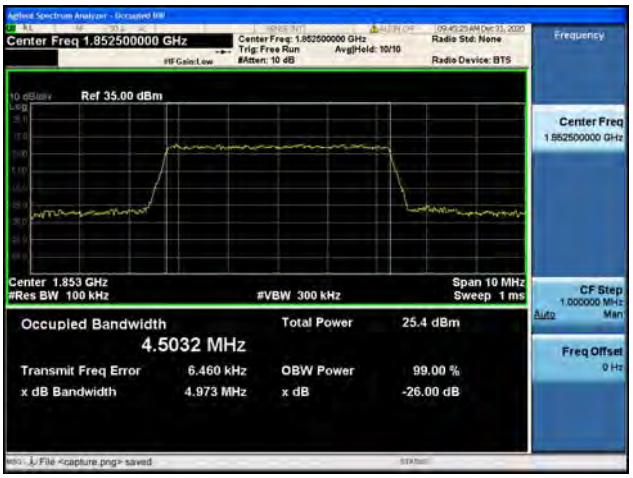
Band2 / 3MHz / High CH / 16QAM



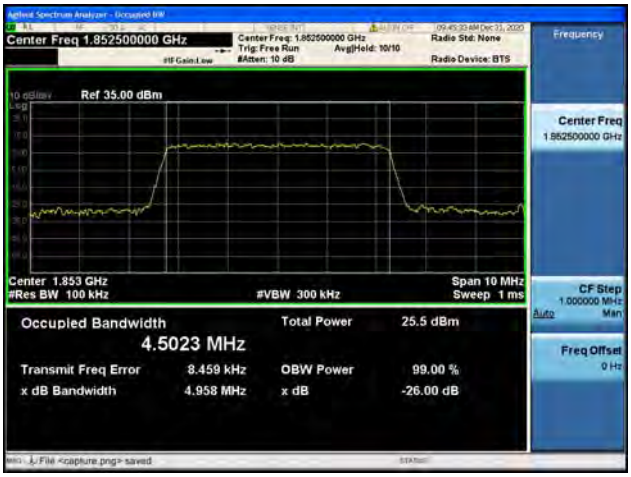
Band2 / 3MHz / High CH / 64QAM

Band2 / 5MHz / Low CH / QPSK

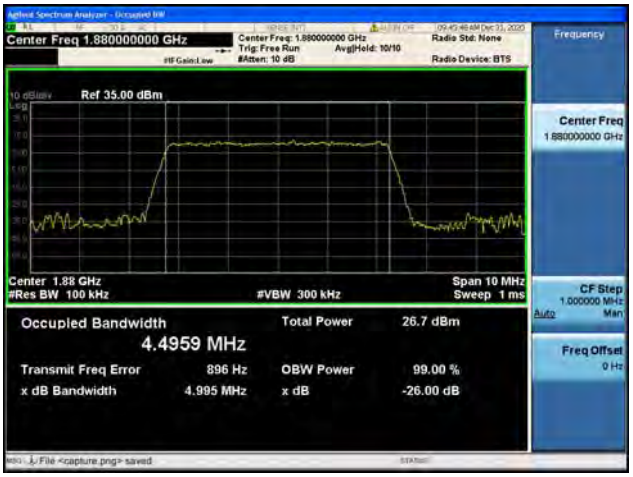
Band2 / 5MHz / Low CH / 16QAM



Band2 / 5MHz / Low CH / 64QAM



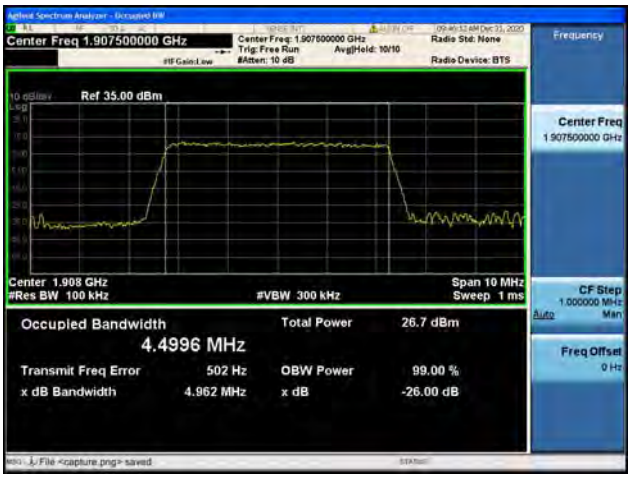
Band2 / 5MHz / Mid CH / QPSK



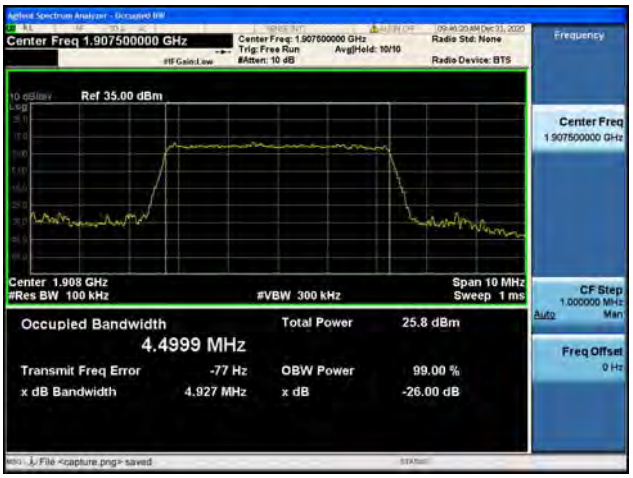
Band2 / 5MHz / Mid CH / 16QAM

Band2 / 5MHz / Mid CH / 64QAM

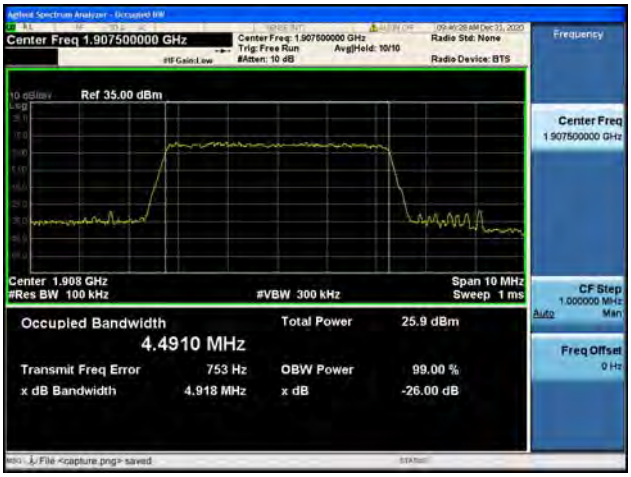
Band2 / 5MHz / High CH / QPSK



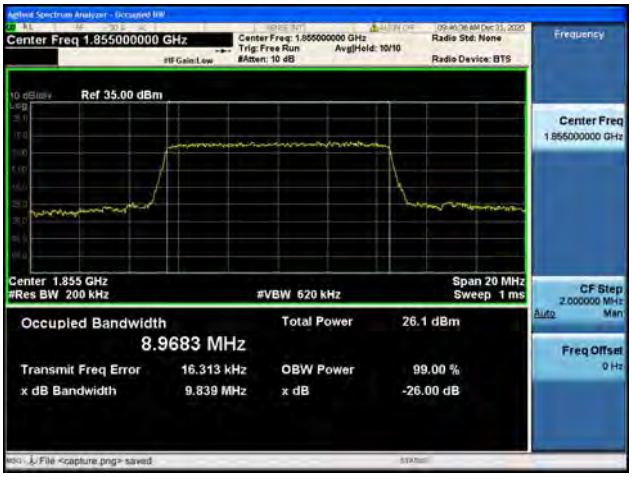
Band2 / 5MHz / High CH / 16QAM



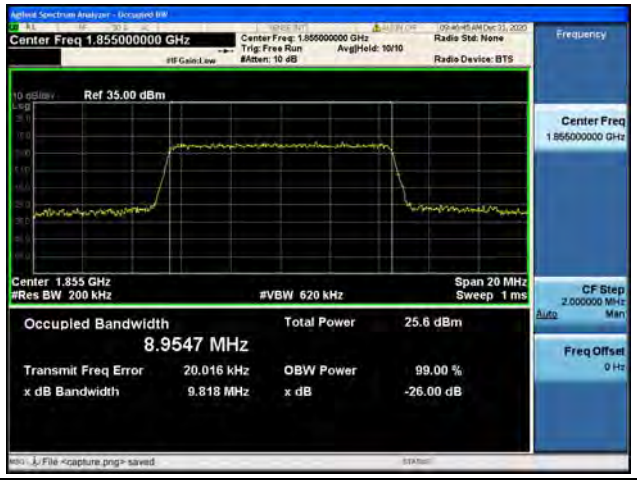
Band2 / 5MHz / High CH / 64QAM



Band2 / 10MHz / Low CH / QPSK

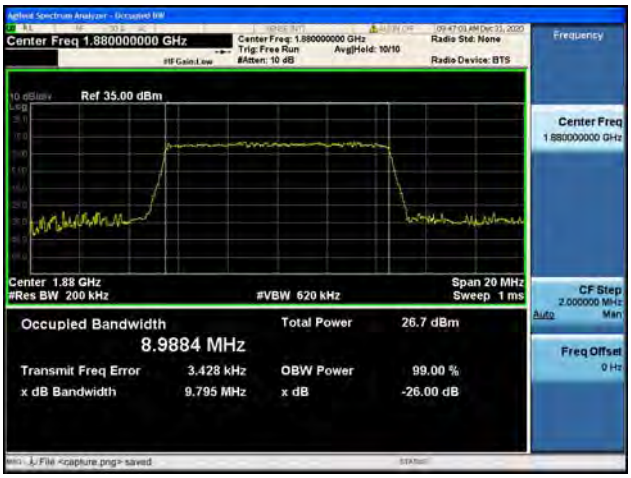


Band2 / 10MHz / Low CH / 16QAM

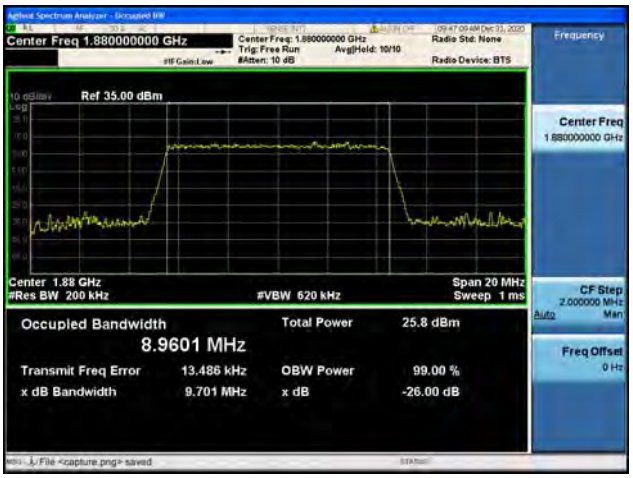


Band2 / 10MHz / Low CH / 64QAM

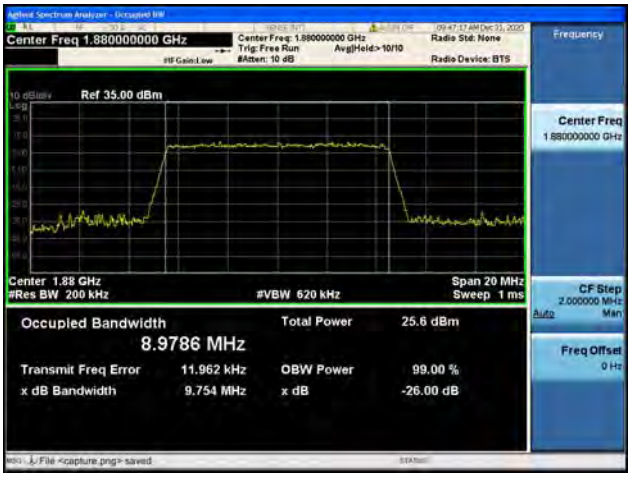
Band2 / 10MHz / Mid CH / QPSK



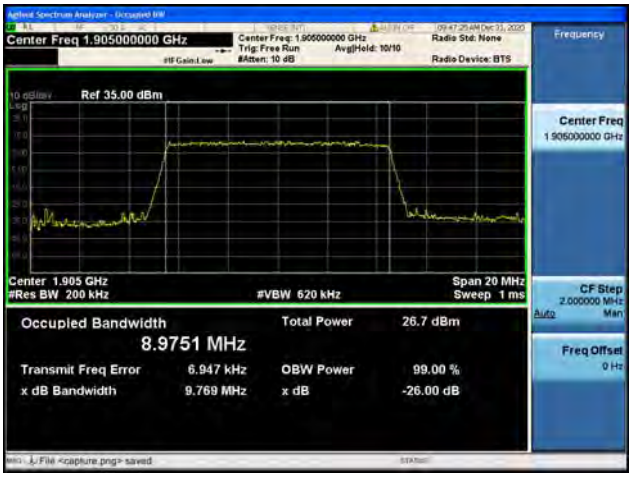
Band2 / 10MHz / Mid CH / 16QAM



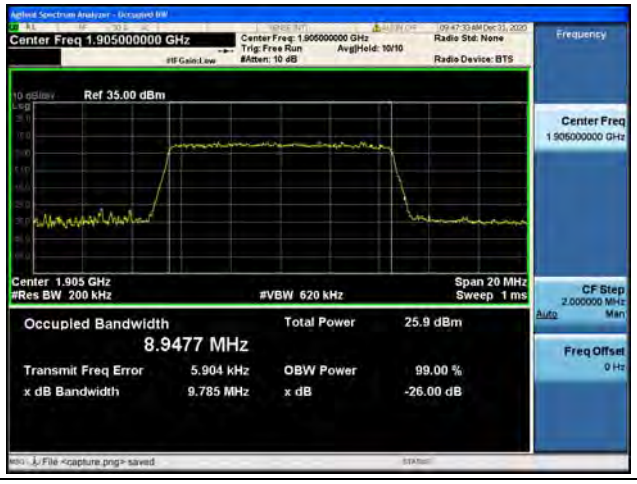
Band2 / 10MHz / Mid CH / 64QAM



Band2 / 10MHz / High CH / QPSK



Band2 / 10MHz / High CH / 16QAM

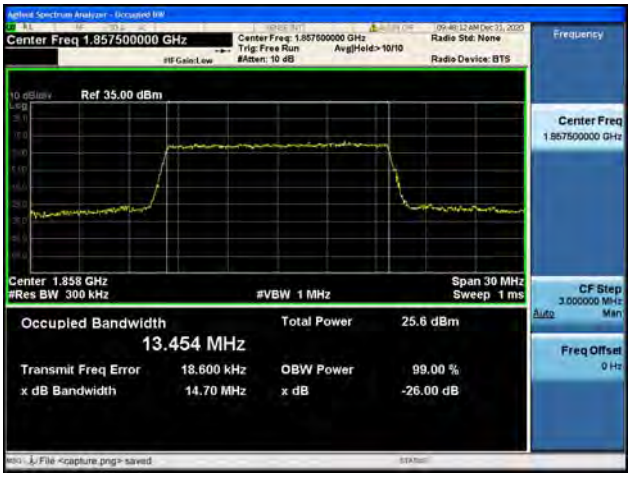


Band2 / 10MHz / High CH / 64QAM

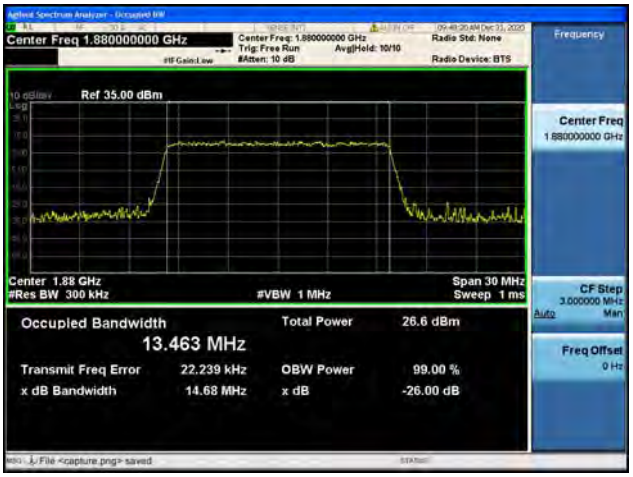
Band2 / 15MHz / Low CH / QPSK

Band2 / 15MHz / Low CH / 16QAM

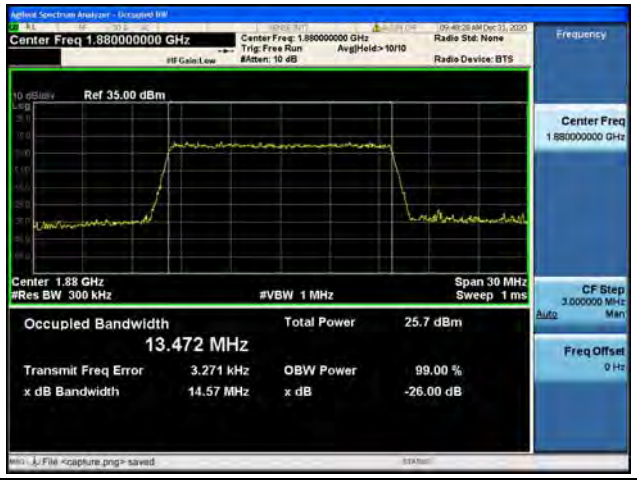
Band2 / 15MHz / Low CH / 64QAM



Band2 / 15MHz / Mid CH / QPSK



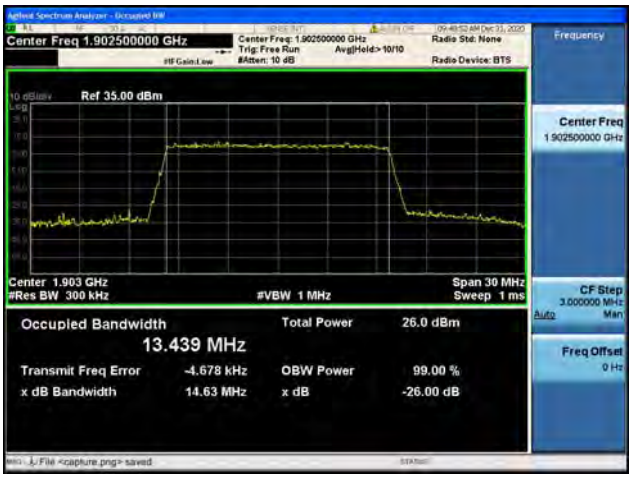
Band2 / 15MHz / Mid CH / 16QAM



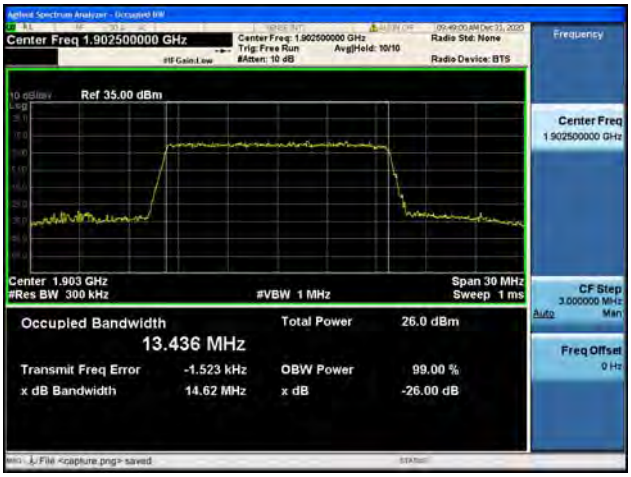
Band2 / 15MHz / Mid CH / 64QAM

Band2 / 15MHz / High CH / QPSK

Band2 / 15MHz / High CH / 16QAM

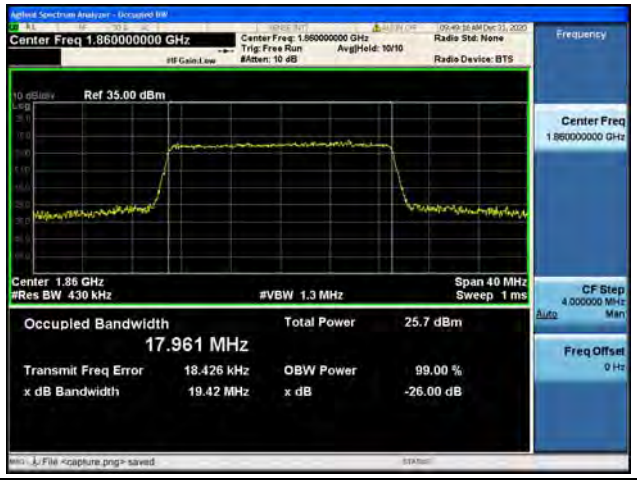


Band2 / 15MHz / High CH / 64QAM



Band2 / 20MHz / Low CH / QPSK

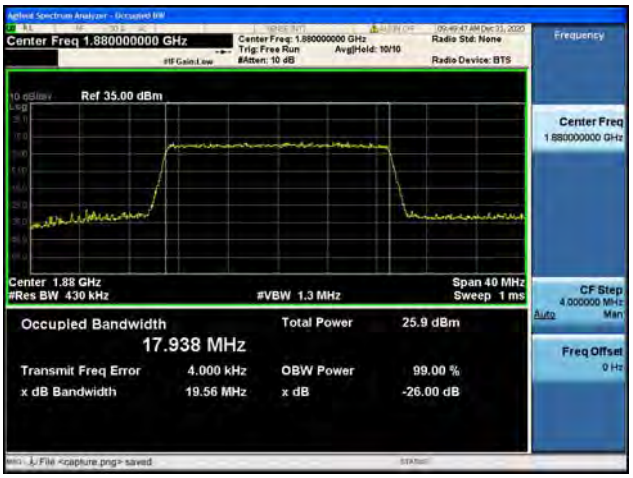
Band2 / 20MHz / Low CH / 16QAM



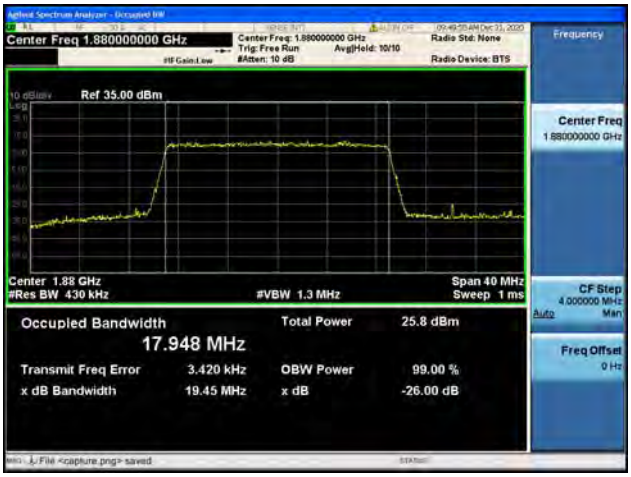
Band2 / 20MHz / Low CH / 64QAM

Band2 / 20MHz / Mid CH / QPSK

Band2 / 20MHz / Mid CH / 16QAM

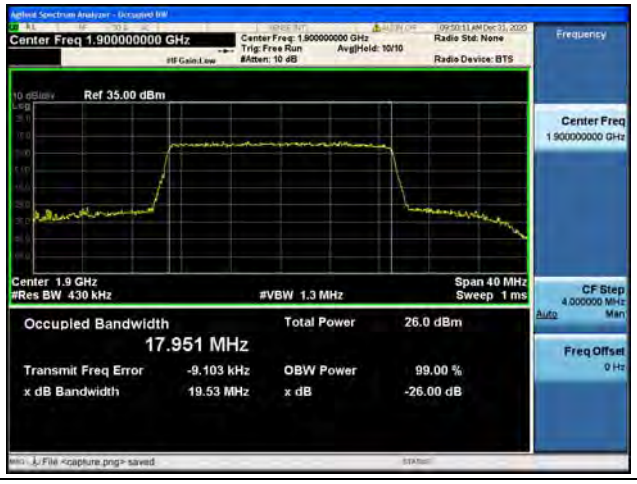


Band2 / 20MHz / Mid CH / 64QAM



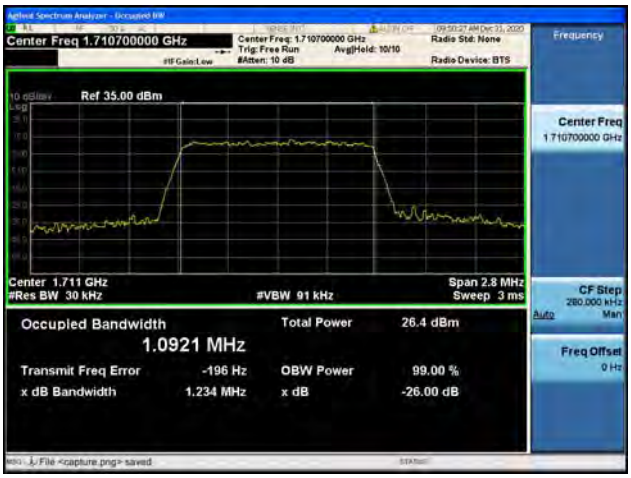
Band2 / 20MHz / High CH / QPSK

Band2 / 20MHz / High CH / 16QAM

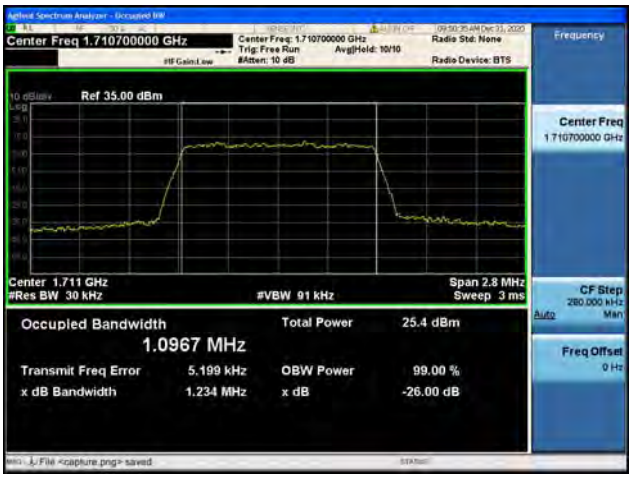


Band2 / 20MHz / High CH / 64QAM

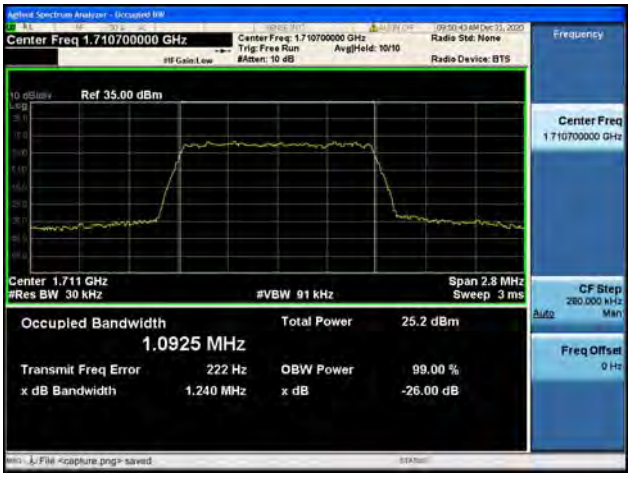
Band4 / 1.4MHz / Low CH / QPSK



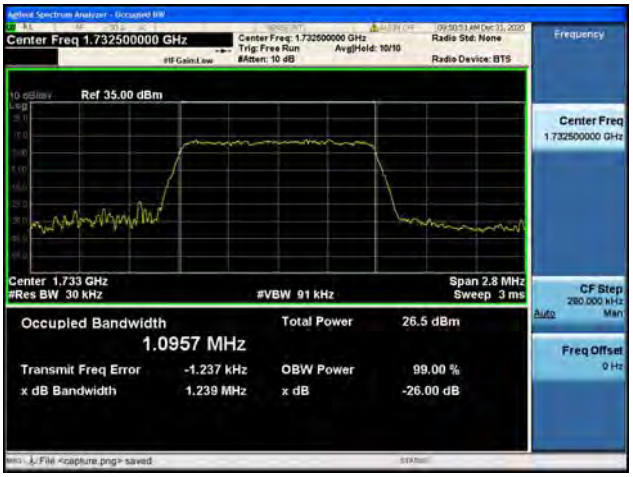
Band4 / 1.4MHz / Low CH / 16QAM



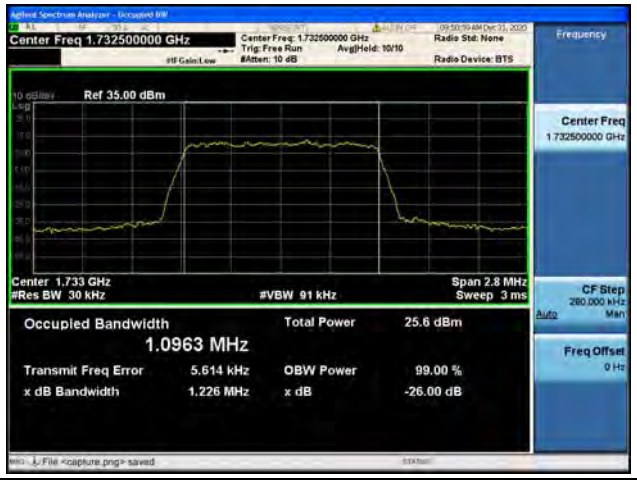
Band4 / 1.4MHz / Low CH / 64QAM



Band4 / 1.4MHz / Mid CH / QPSK

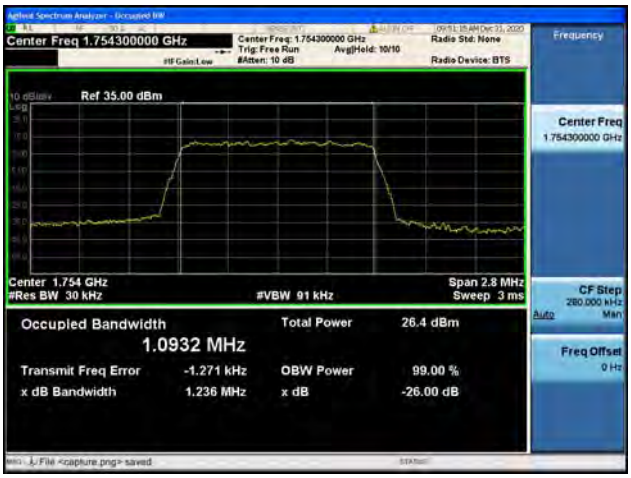


Band4 / 1.4MHz / Mid CH / 16QAM

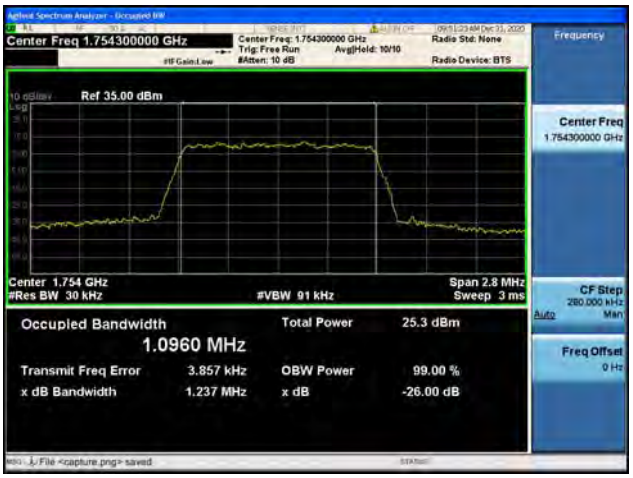


Band4 / 1.4MHz / Mid CH / 64QAM

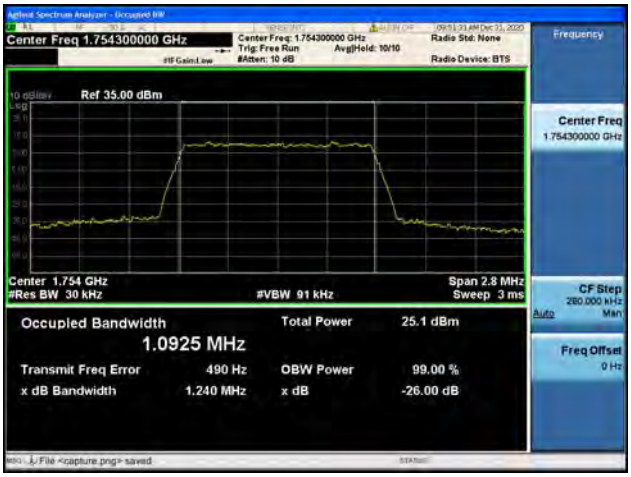
Band4 / 1.4MHz / High CH / QPSK



Band4 / 1.4MHz / High CH / 16QAM

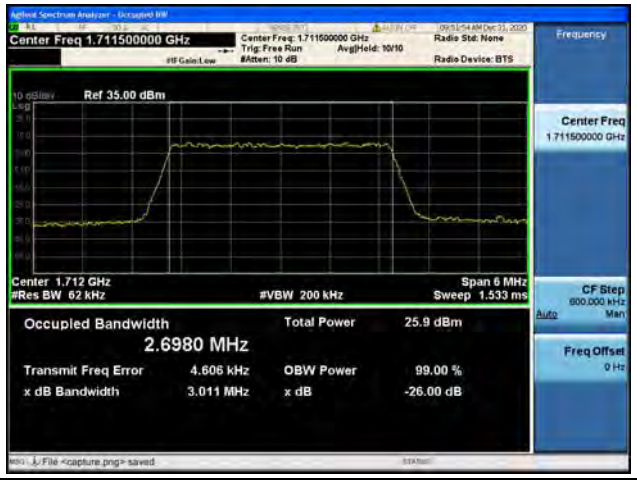


Band4 / 1.4MHz / High CH / 64QAM



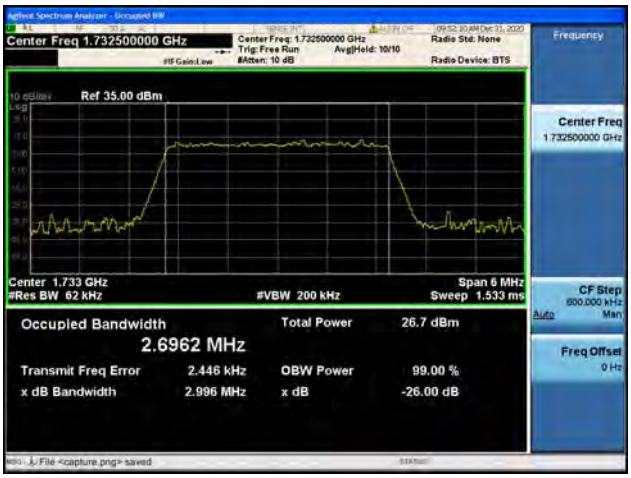
Band4 / 3MHz / Low CH / QPSK

Band4 / 3MHz / Low CH / 16QAM



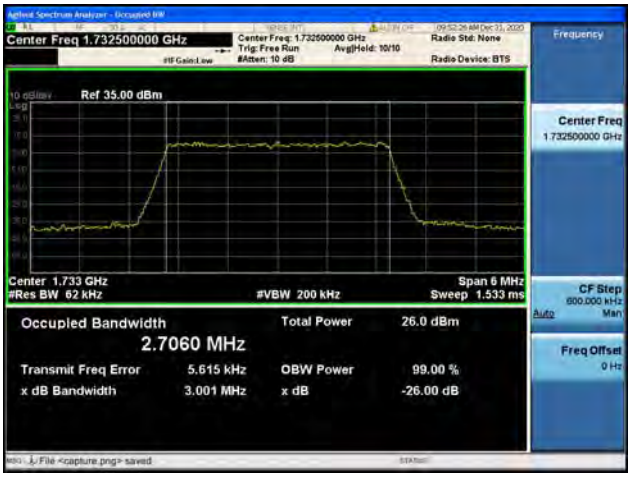
Band4 / 3MHz / Low CH / 64QAM

Band4 / 3MHz / Mid CH / QPSK

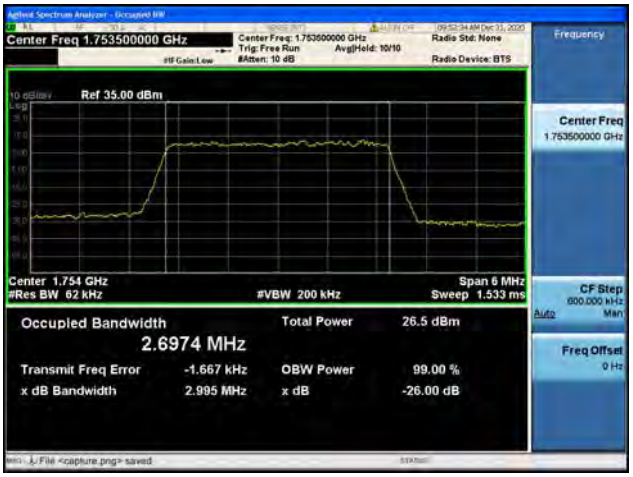


Band4 / 3MHz / Mid CH / 16QAM

Band4 / 3MHz / Mid CH / 64QAM



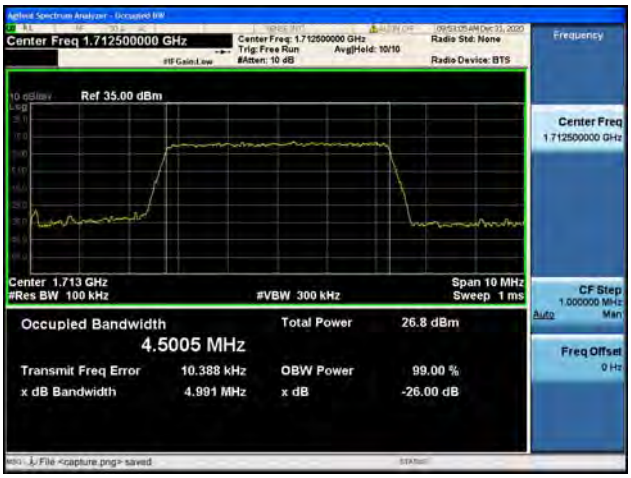
Band4 / 3MHz / High CH / QPSK



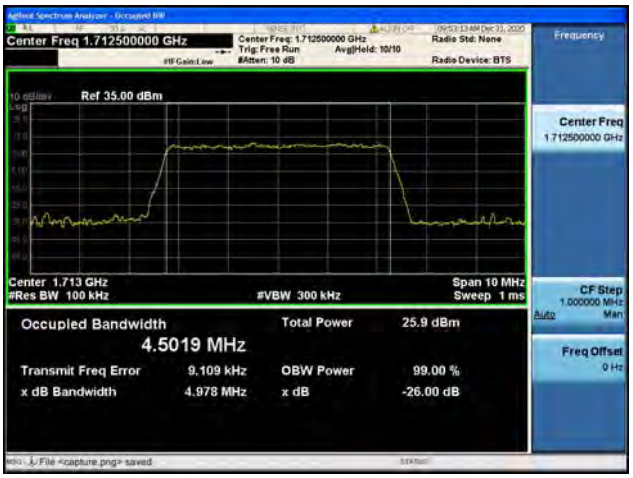
Band4 / 3MHz / High CH / 16QAM

Band4 / 3MHz / High CH / 64QAM

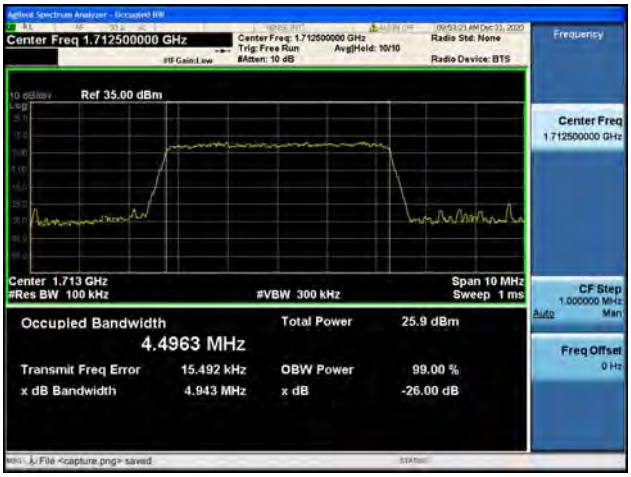
Band4 / 5MHz / Low CH / QPSK



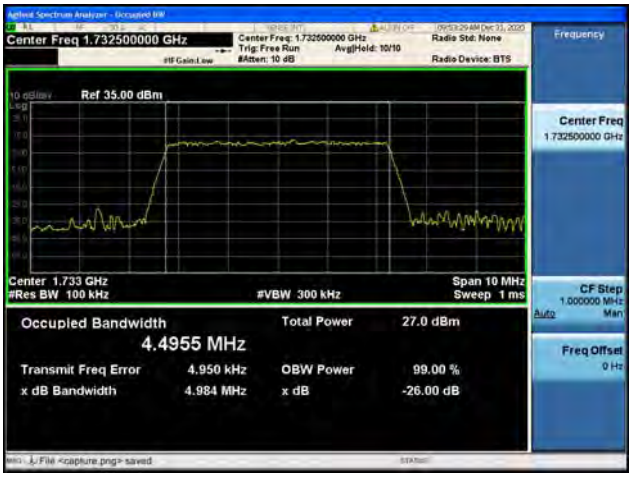
Band4 / 5MHz / Low CH / 16QAM



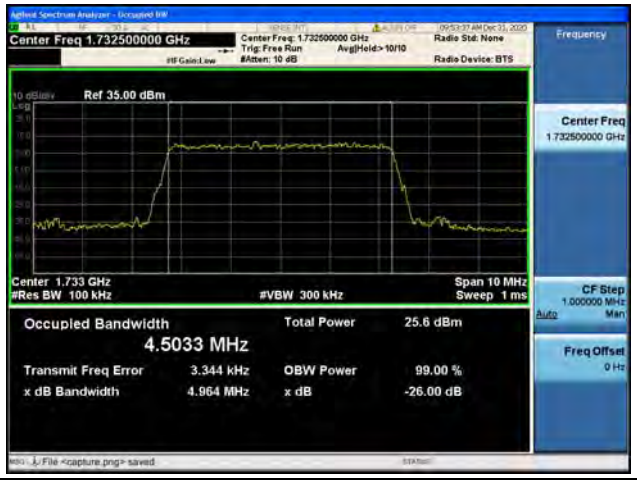
Band4 / 5MHz / Low CH / 64QAM



Band4 / 5MHz / Mid CH / QPSK

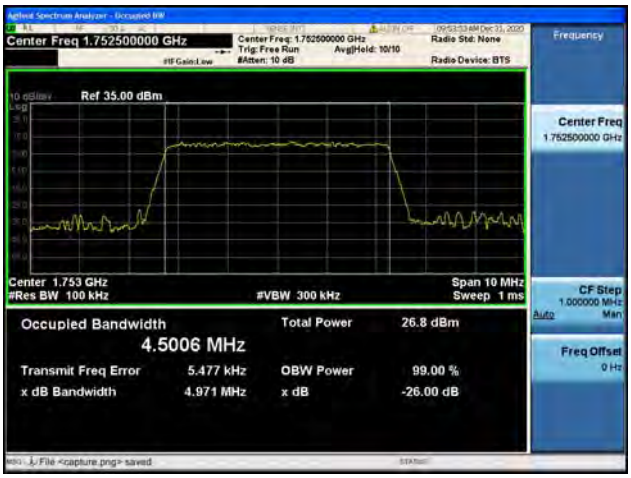


Band4 / 5MHz / Mid CH / 16QAM

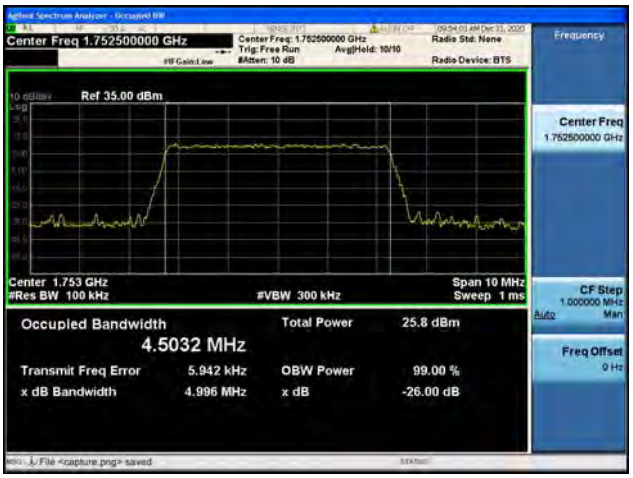


Band4 / 5MHz / Mid CH / 64QAM

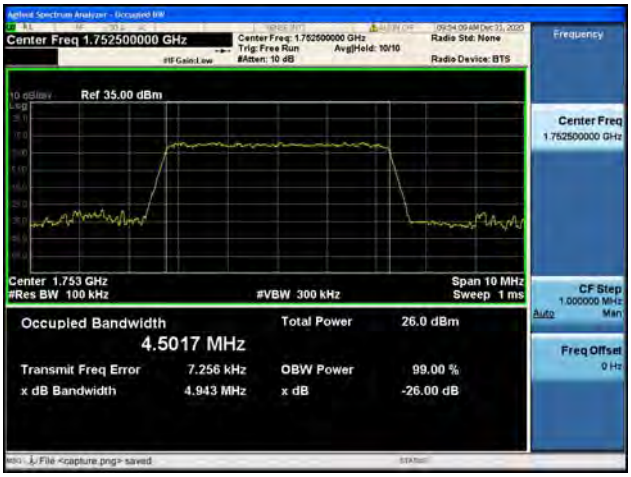
Band4 / 5MHz / High CH / QPSK



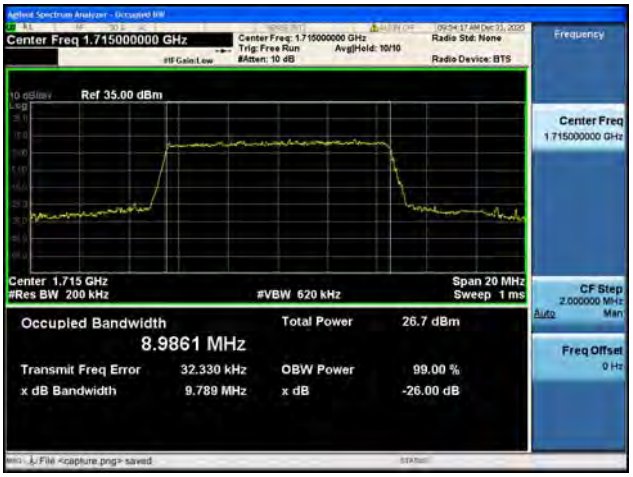
Band4 / 5MHz / High CH / 16QAM



Band4 / 5MHz / High CH / 64QAM



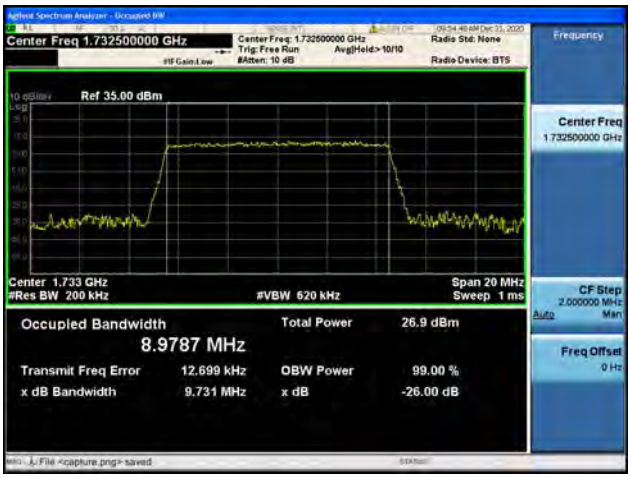
Band4 / 10MHz / Low CH / QPSK



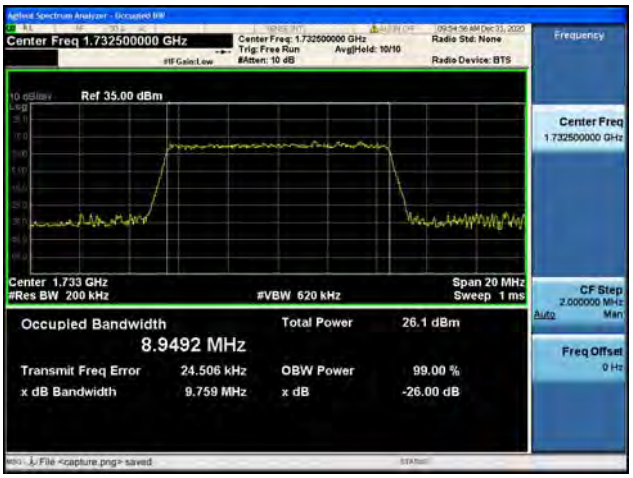
Band4 / 10MHz / Low CH / 16QAM

Band4 / 10MHz / Low CH / 64QAM

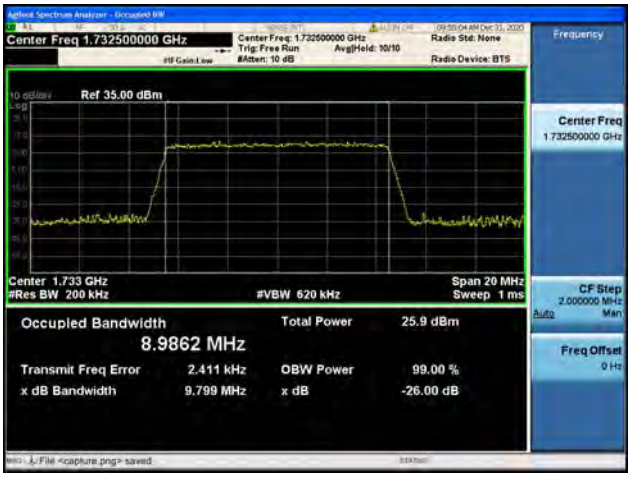
Band4 / 10MHz / Mid CH / QPSK



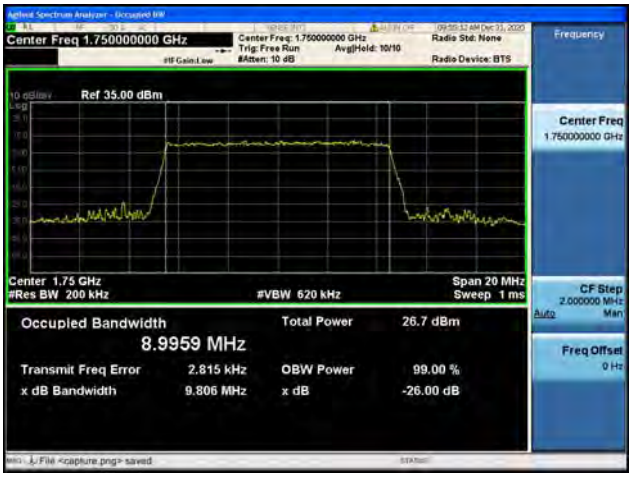
Band4 / 10MHz / Mid CH / 16QAM



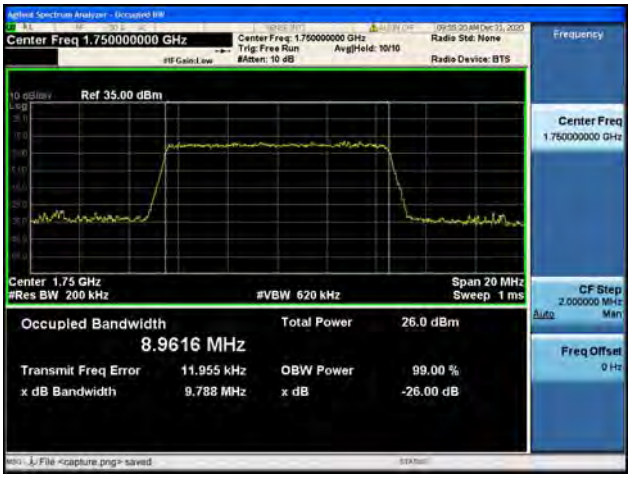
Band4 / 10MHz / Mid CH / 64QAM



Band4 / 10MHz / High CH / QPSK



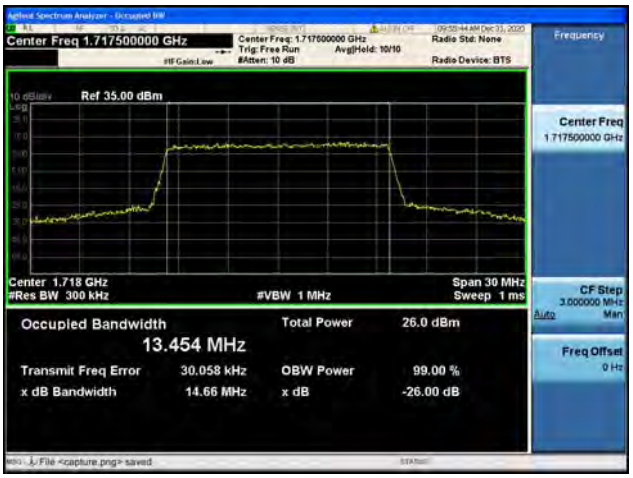
Band4 / 10MHz / High CH / 16QAM



Band4 / 10MHz / High CH / 64QAM

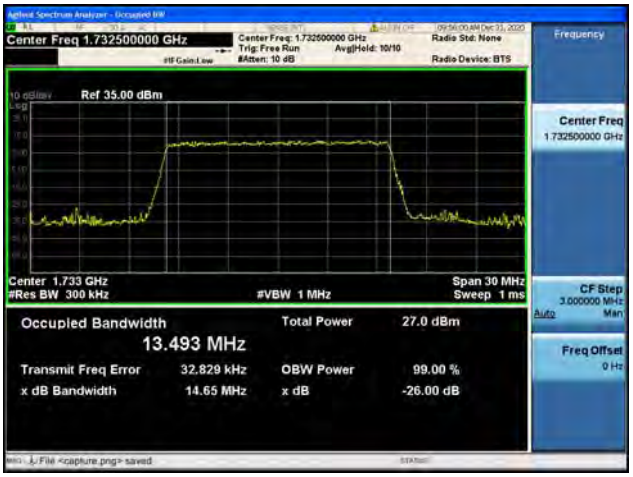
Band4 / 15MHz / Low CH / QPSK

Band4 / 15MHz / Low CH / 16QAM

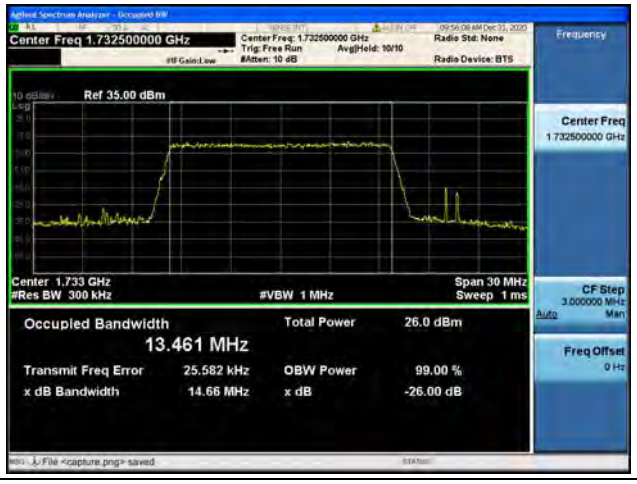


Band4 / 15MHz / Low CH / 64QAM

Band4 / 15MHz / Mid CH / QPSK

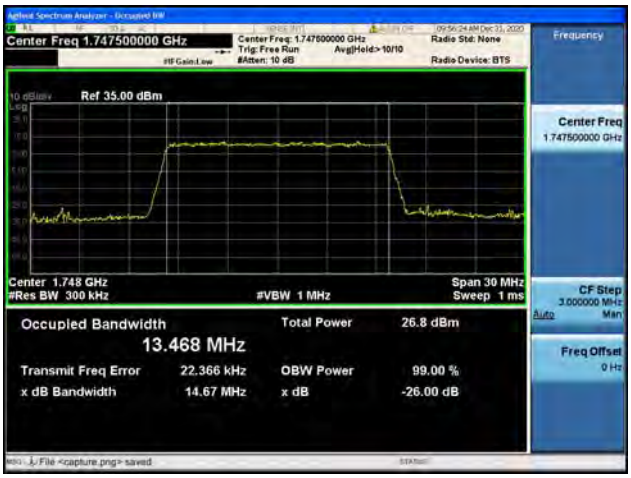


Band4 / 15MHz / Mid CH / 16QAM



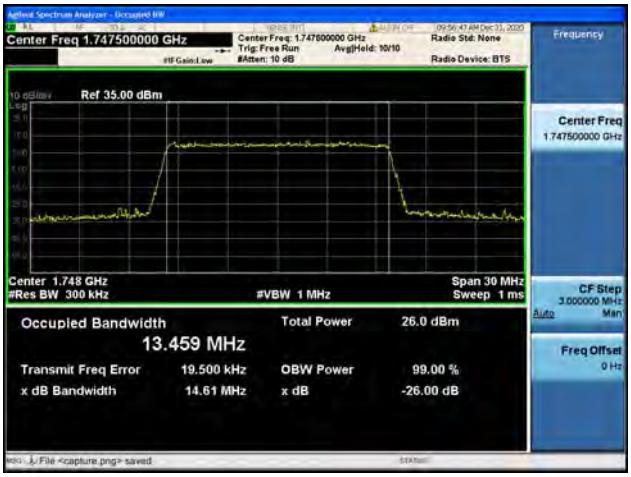
Band4 / 15MHz / Mid CH / 64QAM

Band4 / 15MHz / High CH / QPSK



Band4 / 15MHz / High CH / 16QAM

Band4 / 15MHz / High CH / 64QAM

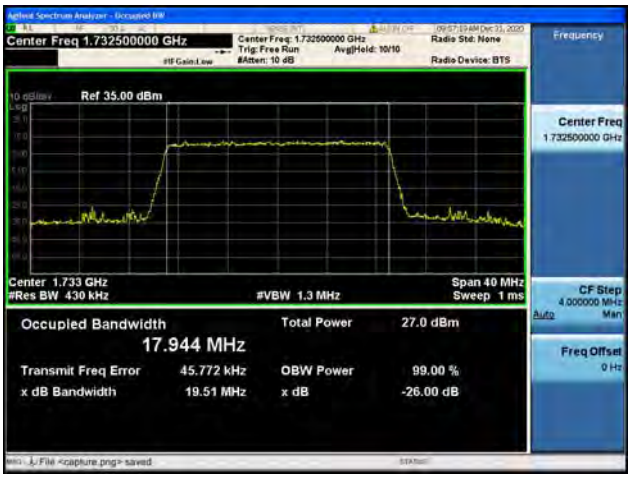


Band4 / 20MHz / Low CH / QPSK

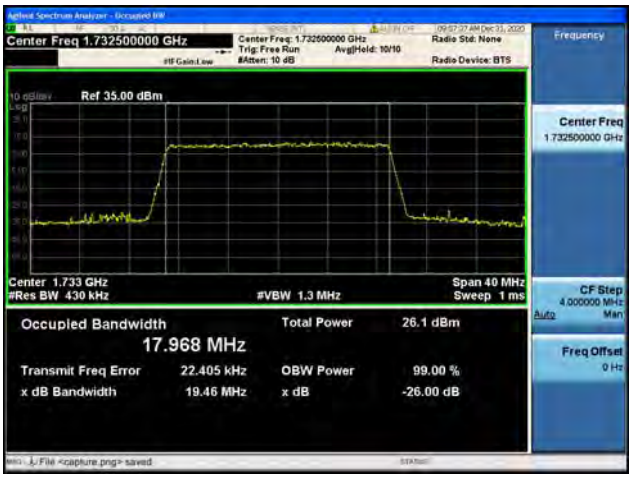
Band4 / 20MHz / Low CH / 16QAM

Band4 / 20MHz / Low CH / 64QAM

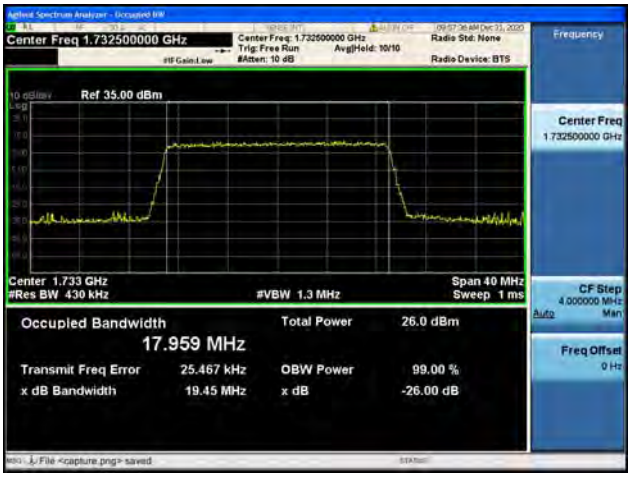
Band4 / 20MHz / Mid CH / QPSK



Band4 / 20MHz / Mid CH / 16QAM



Band4 / 20MHz / Mid CH / 64QAM

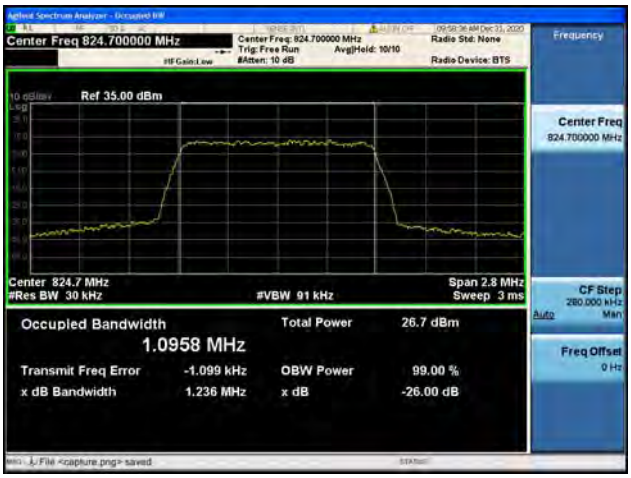


Band4 / 20MHz / High CH / QPSK

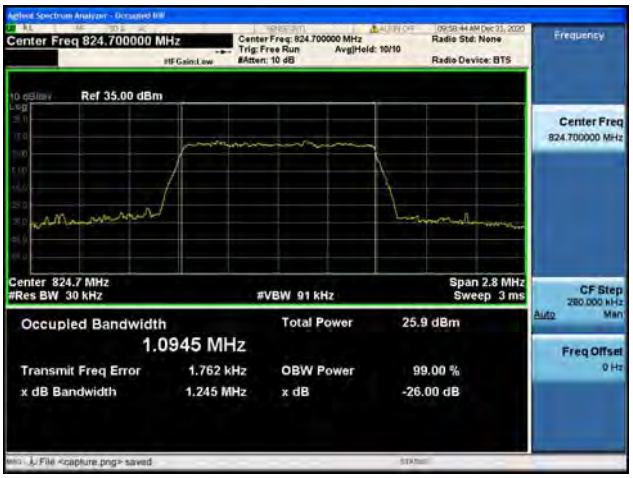
Band4 / 20MHz / High CH / 16QAM

Band4 / 20MHz / High CH / 64QAM

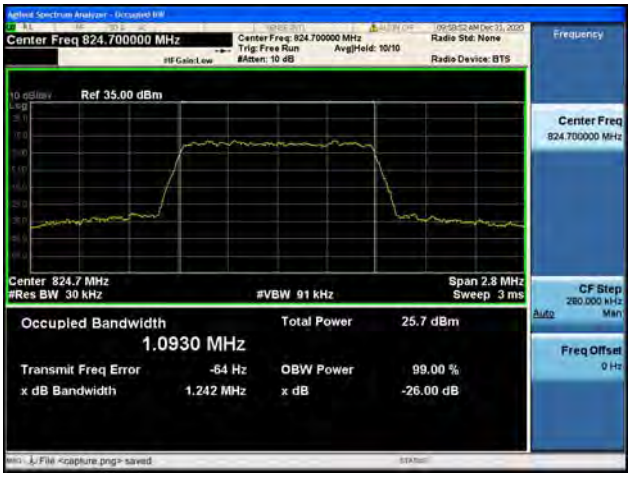
Band5 / 1.4MHz / Low CH / QPSK



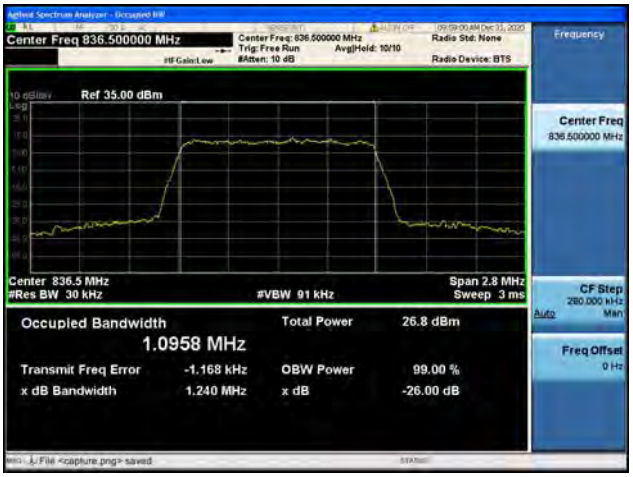
Band5 / 1.4MHz / Low CH / 16QAM



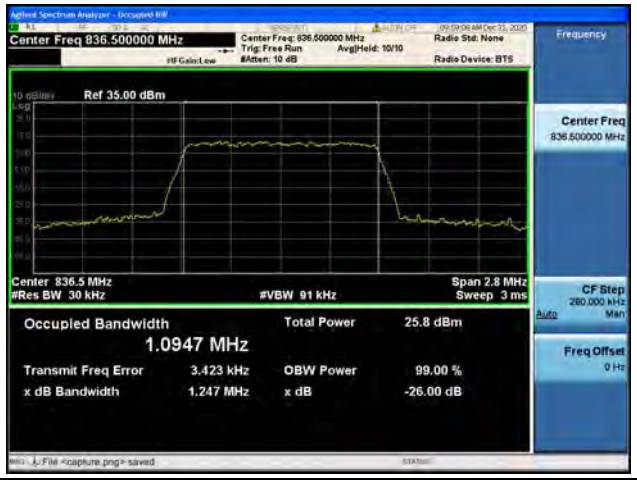
Band5 / 1.4MHz / Low CH / 64QAM



Band5 / 1.4MHz / Mid CH / QPSK

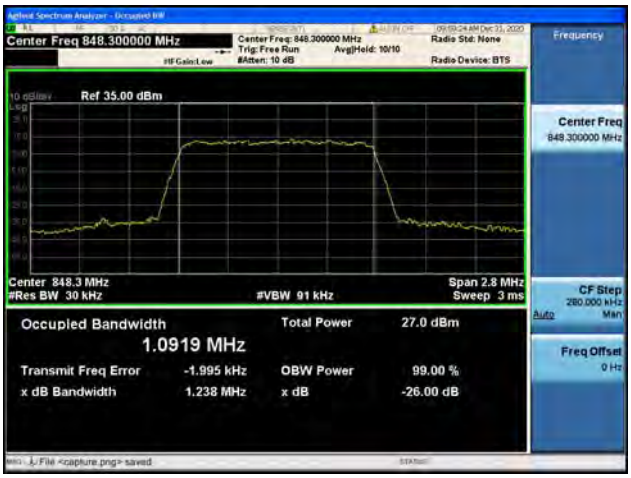


Band5 / 1.4MHz / Mid CH / 16QAM

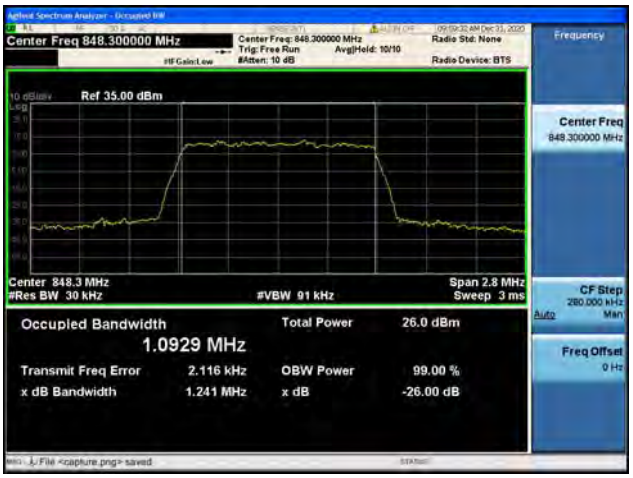


Band5 / 1.4MHz / Mid CH / 64QAM

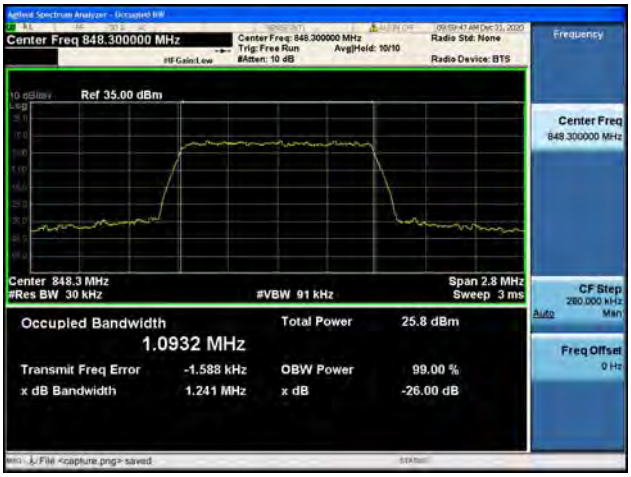
Band5 / 1.4MHz / High CH / QPSK



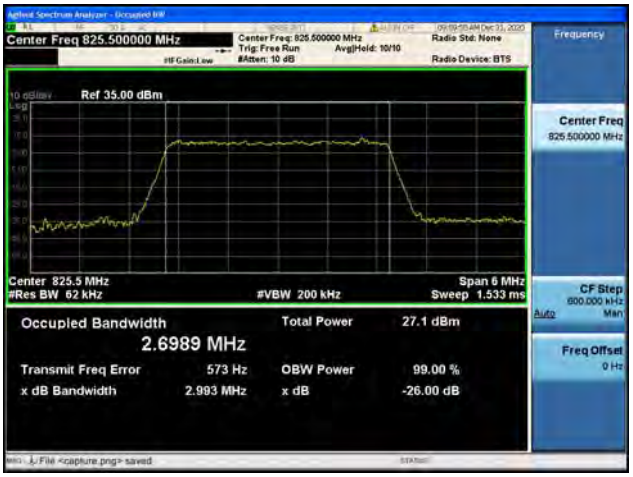
Band5 / 1.4MHz / High CH / 16QAM



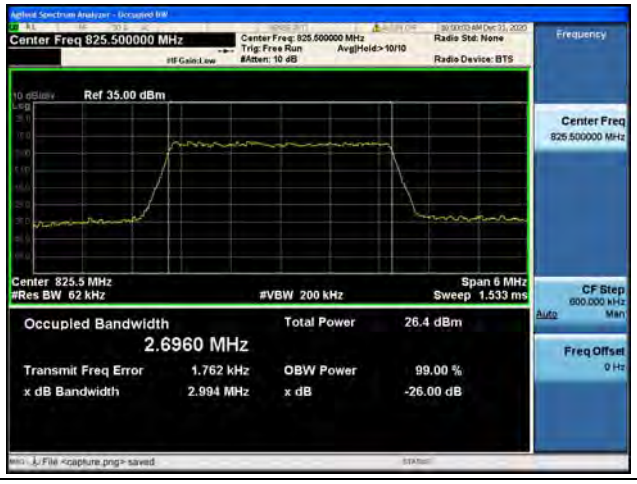
Band5 / 1.4MHz / High CH / 64QAM



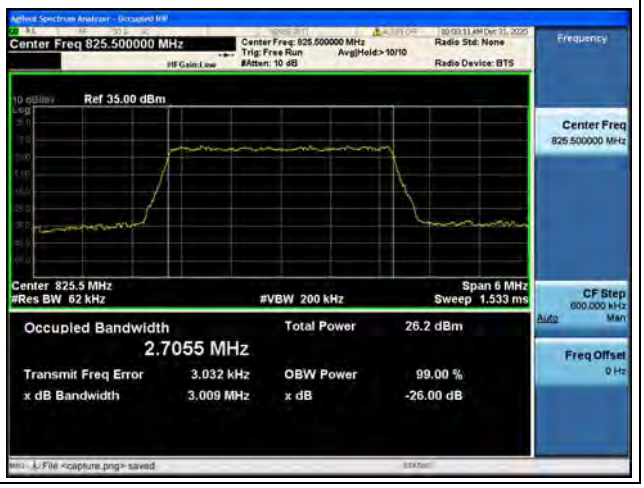
Band5 / 3MHz / Low CH / QPSK



Band5 / 3MHz / Low CH / 16QAM



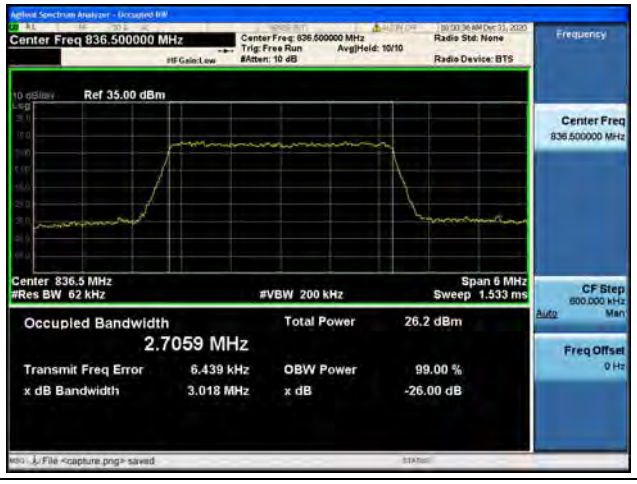
Band5 / 3MHz / Low CH / 64QAM



Band5 / 3MHz / Mid CH / QPSK

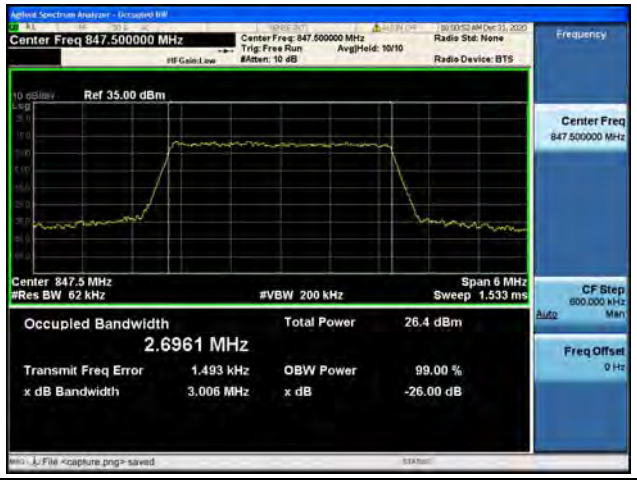
Band5 / 3MHz / Mid CH / 16QAM

Band5 / 3MHz / Mid CH / 64QAM

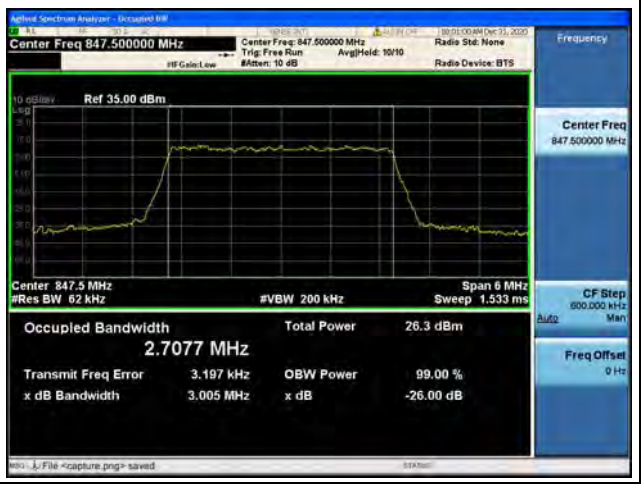


Band5 / 3MHz / High CH / QPSK

Band5 / 3MHz / High CH / 16QAM

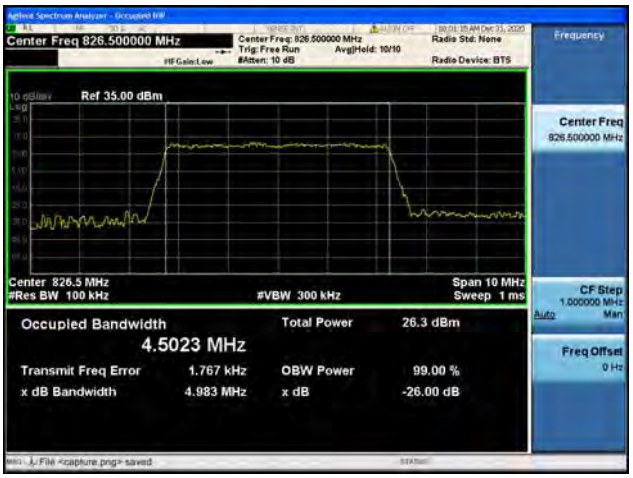


Band5 / 3MHz / High CH / 64QAM

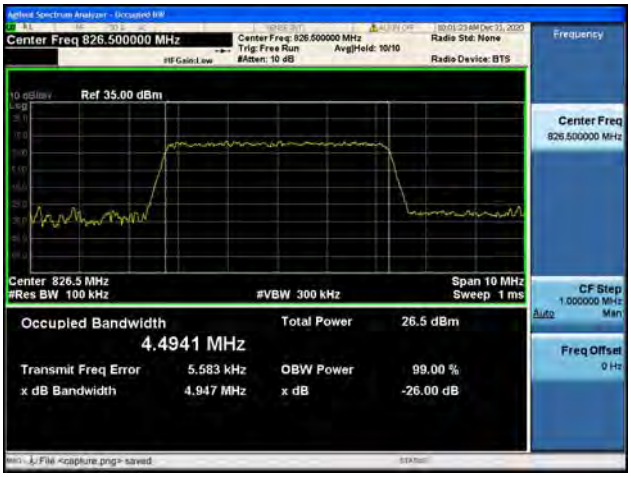


Band5 / 5MHz / Low CH / QPSK

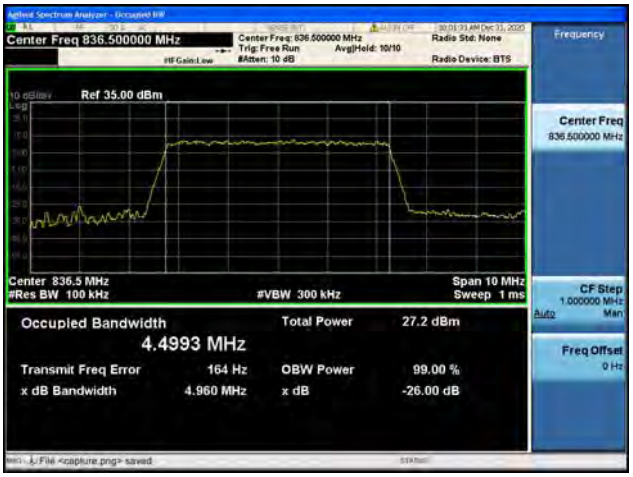
Band5 / 5MHz / Low CH / 16QAM



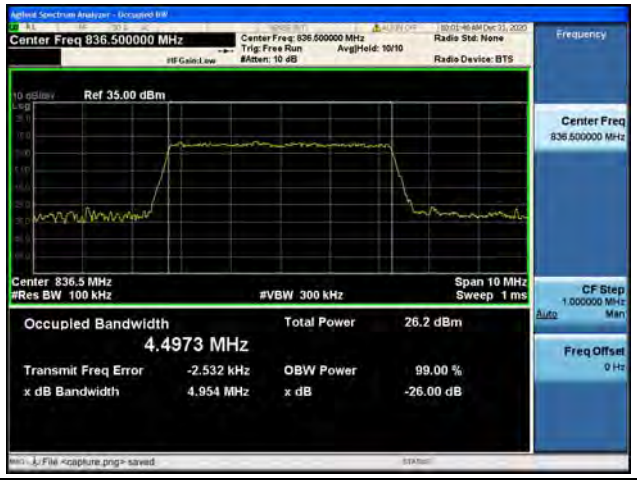
Band5 / 5MHz / Low CH / 64QAM



Band5 / 5MHz / Mid CH / QPSK

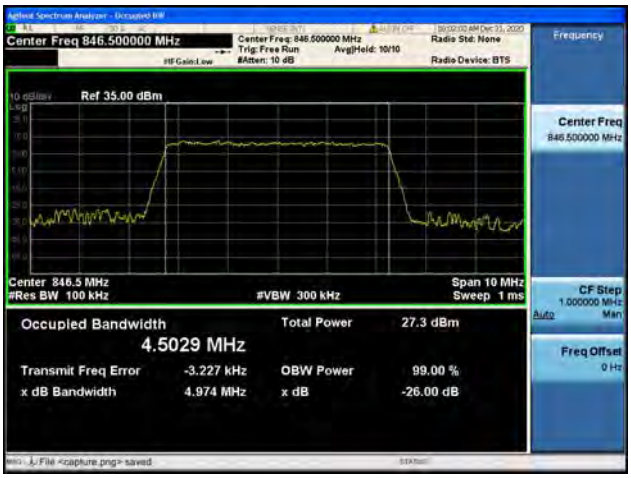


Band5 / 5MHz / Mid CH / 16QAM

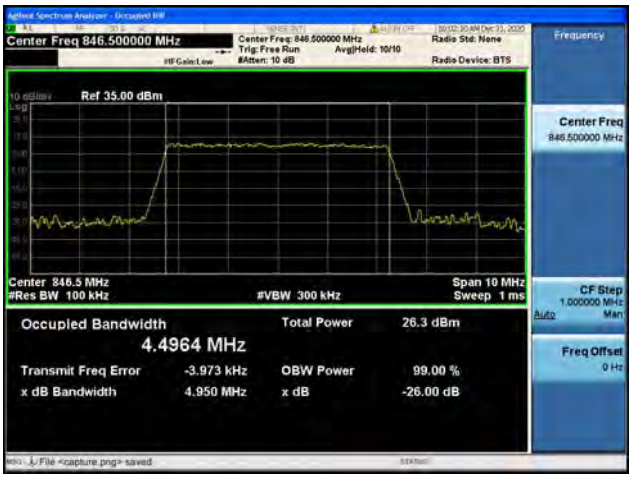


Band5 / 5MHz / Mid CH / 64QAM

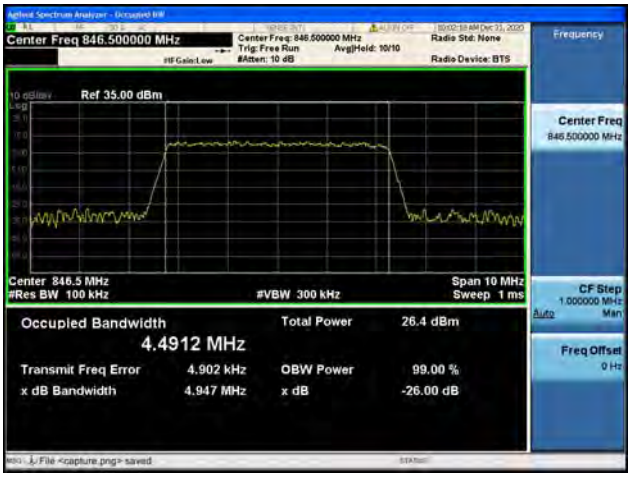
Band5 / 5MHz / High CH / QPSK



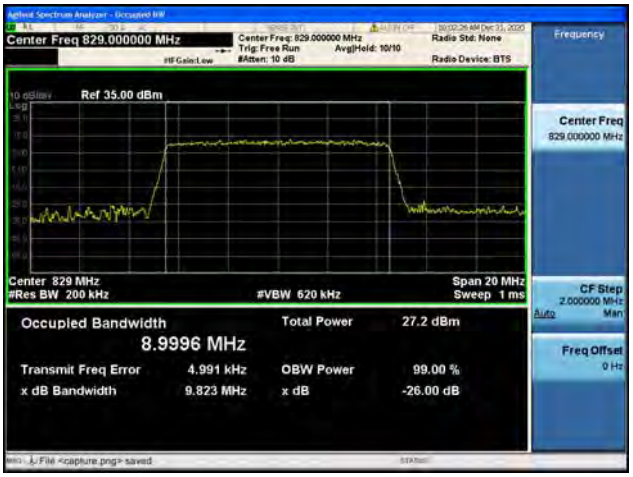
Band5 / 5MHz / High CH / 16QAM



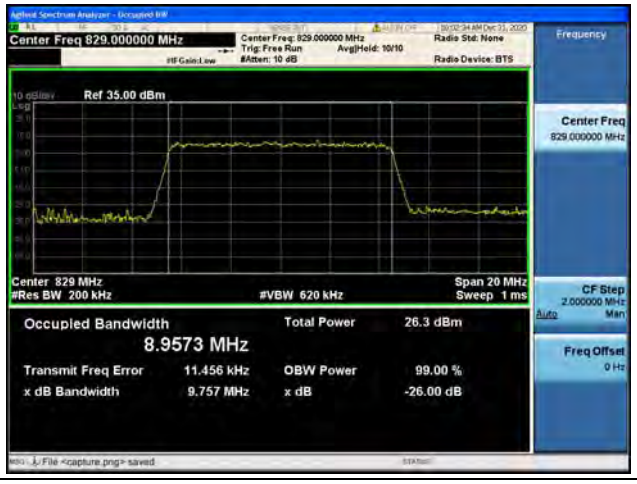
Band5 / 5MHz / High CH / 64QAM



Band5 / 10MHz / Low CH / QPSK

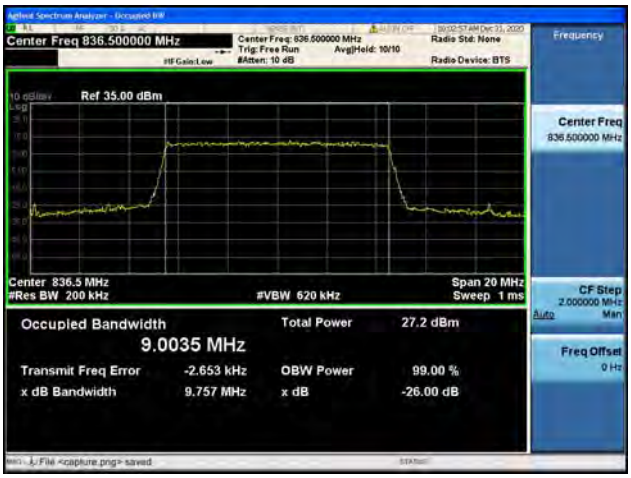


Band5 / 10MHz / Low CH / 16QAM

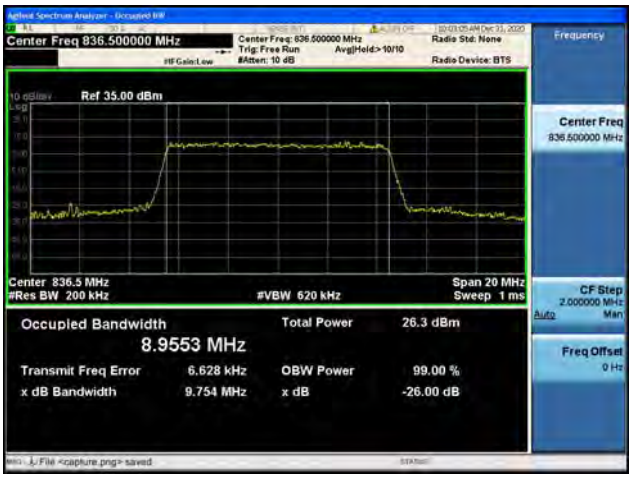


Band5 / 10MHz / Low CH / 64QAM

Band5 / 10MHz / Mid CH / QPSK



Band5 / 10MHz / Mid CH / 16QAM



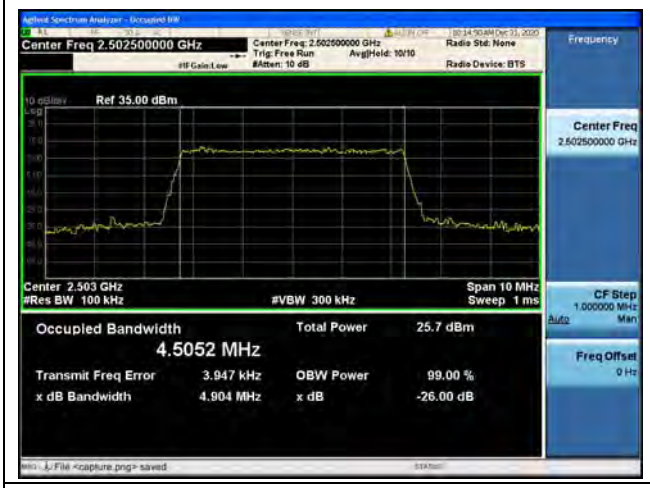
Band5 / 10MHz / Mid CH / 64QAM

Band5 / 10MHz / High CH / QPSK

Band5 / 10MHz / High CH / 16QAM

Band5 / 10MHz / High CH / 64QAM

Band7 / 5MHz / Low CH / QPSK

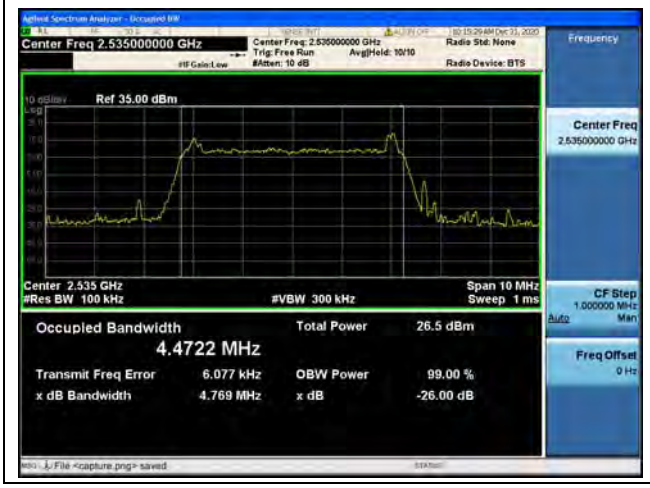


Band7 / 5MHz / Low CH / 16QAM

Band7 / 5MHz / Low CH / 64QAM

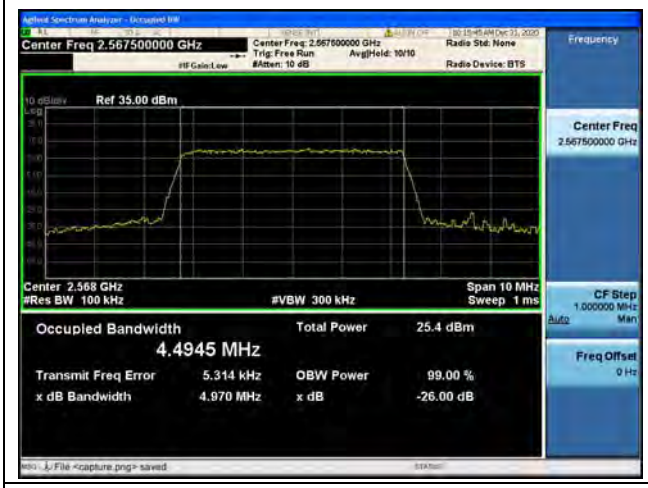
Band7 / 5MHz / Mid CH / QPSK

Band7 / 5MHz / Mid CH / 16QAM



Band7 / 5MHz / Mid CH / 64QAM

Band7 / 5MHz / High CH / QPSK



Band7 / 5MHz / High CH / 16QAM

Band7 / 5MHz / High CH / 64QAM

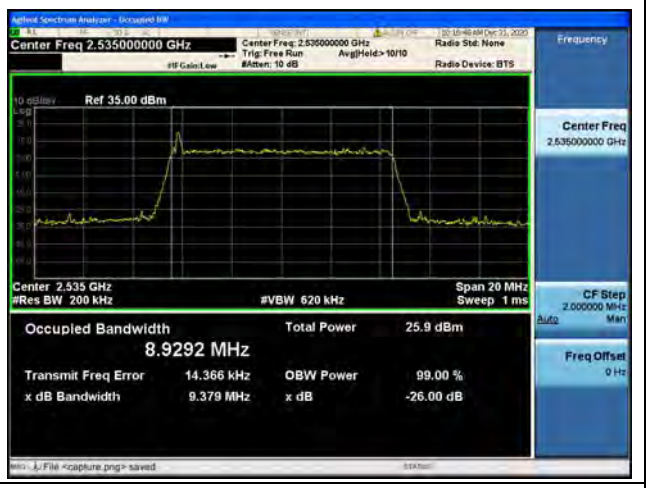
Band7 / 10MHz / Low CH / QPSK

Band7 / 10MHz / Low CH / 16QAM

Band7 / 10MHz / Low CH / 64QAM

Band7 / 10MHz / Mid CH / QPSK

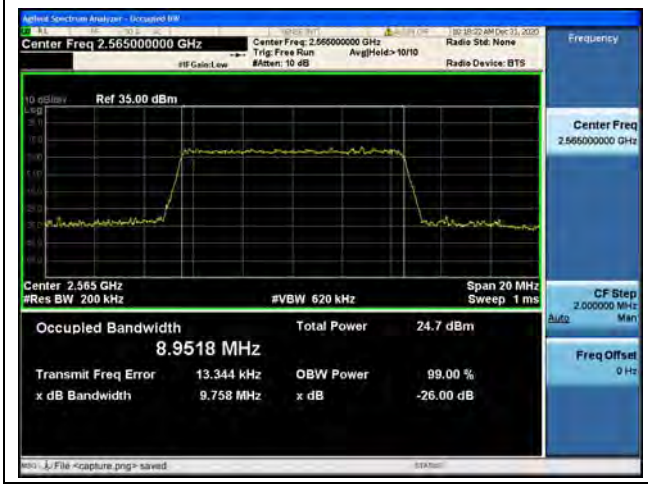
Band7 / 10MHz / Mid CH / 16QAM



Band7 / 10MHz / Mid CH / 64QAM

Band7 / 10MHz / High CH / QPSK

Band7 / 10MHz / High CH / 16QAM



Band7 / 10MHz / High CH / 64QAM

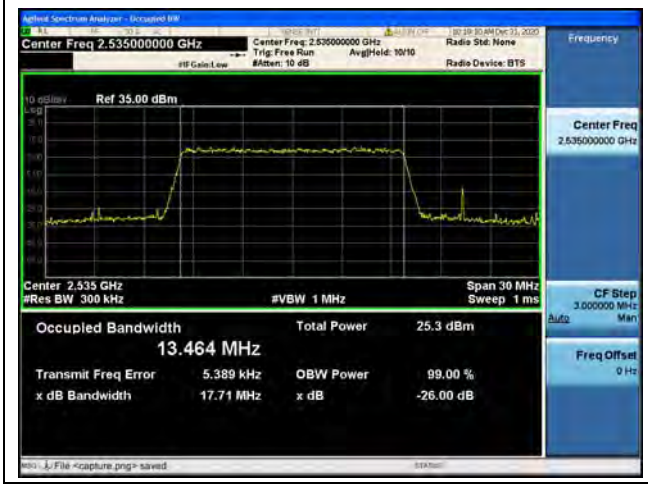
Band7 / 15MHz / Low CH / QPSK

Band7 / 15MHz / Low CH / 16QAM

Band7 / 15MHz / Low CH / 64QAM

Band7 / 15MHz / Mid CH / QPSK

Band7 / 15MHz / Mid CH / 16QAM



Band7 / 15MHz / Mid CH / 64QAM

Band7 / 15MHz / High CH / QPSK

Band7 / 15MHz / High CH / 16QAM

Band7 / 15MHz / High CH / 64QAM

Band7 / 20MHz / Low CH / QPSK

Band7 / 20MHz / Low CH / 16QAM

Band7 / 20MHz / Low CH / 64QAM

Band7 / 20MHz / Mid CH / QPSK

Band7 / 20MHz / Mid CH / 16QAM

Band7 / 20MHz / Mid CH / 64QAM

Band7 / 20MHz / High CH / QPSK

Band7 / 20MHz / High CH / 16QAM

Band7 / 20MHz / High CH / 64QAM

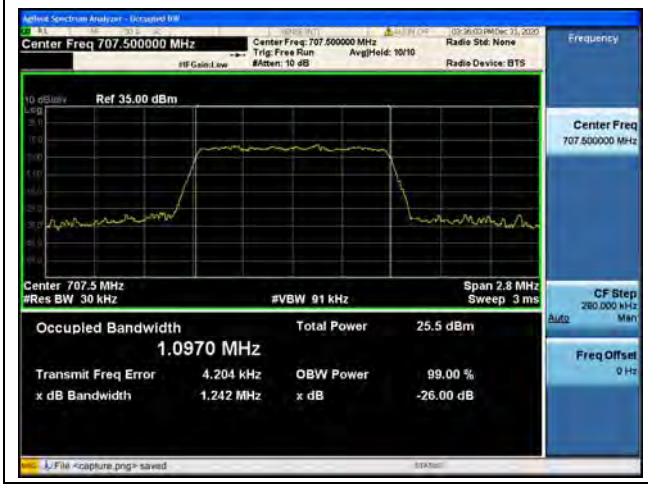
Band12 / 1.4MHz / Low CH / QPSK

Band12 / 1.4MHz / Low CH / 16QAM

Band12 / 1.4MHz / Low CH / 64QAM

Band12 / 1.4MHz / Mid CH / QPSK

Band12 / 1.4MHz / Mid CH / 16QAM



Band12 / 1.4MHz / Mid CH / 64QAM