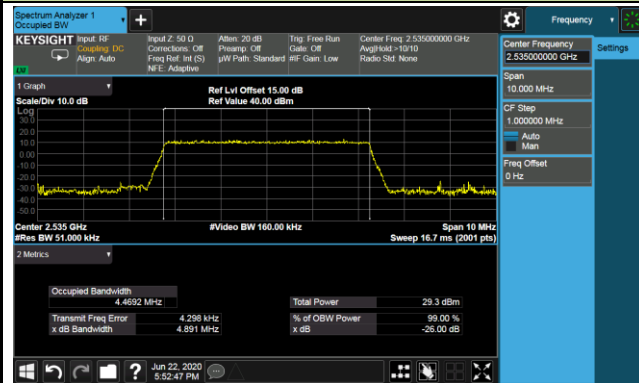
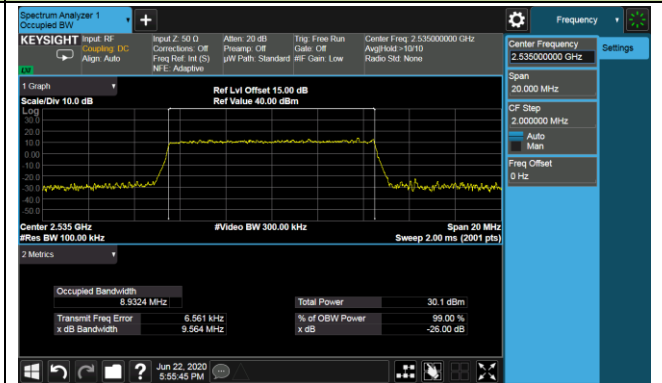


99% Bandwidth - 16QAM

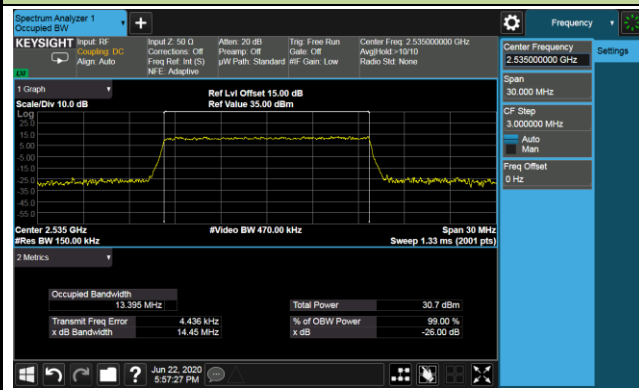
5MHz Channel Bandwidth



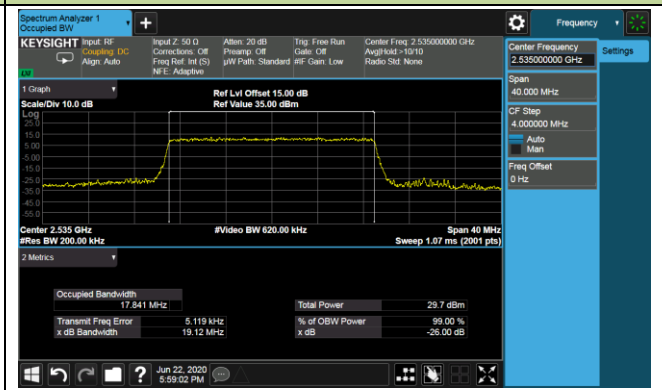
10MHz Channel Bandwidth



15MHz Channel Bandwidth

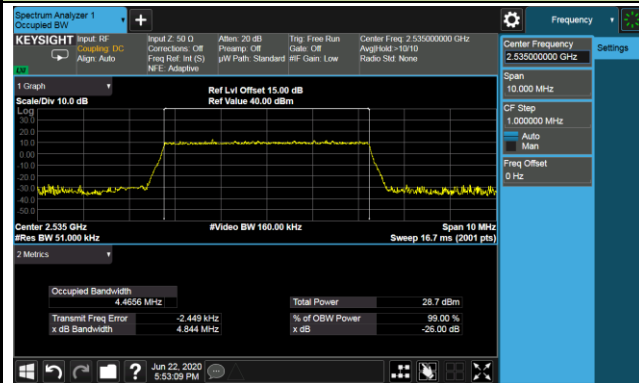


20MHz Channel Bandwidth

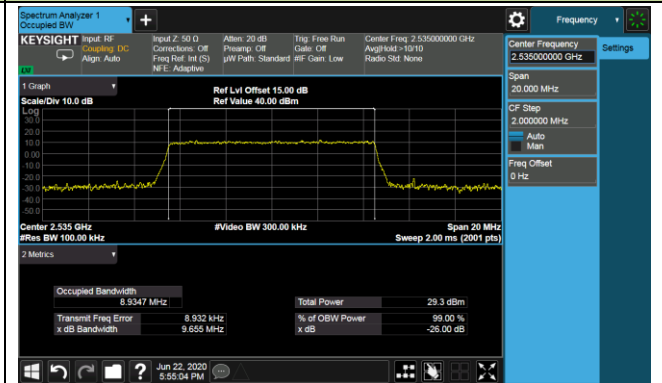


99% Bandwidth - 64QAM

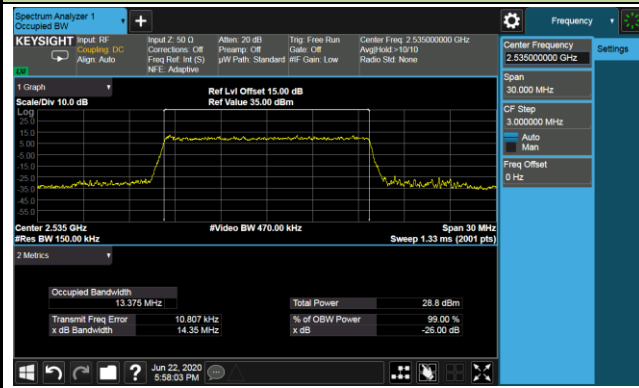
5MHz Channel Bandwidth



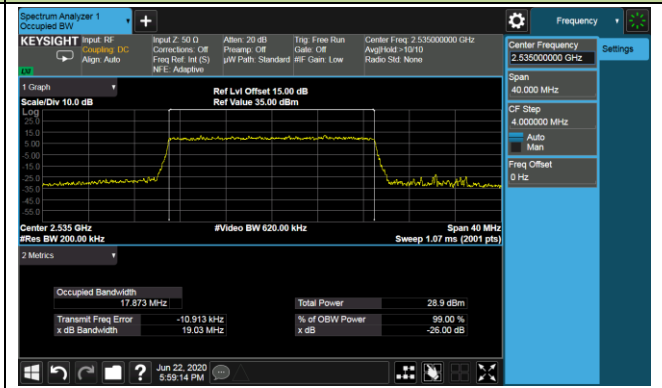
10MHz Channel Bandwidth



15MHz Channel Bandwidth



20MHz Channel Bandwidth

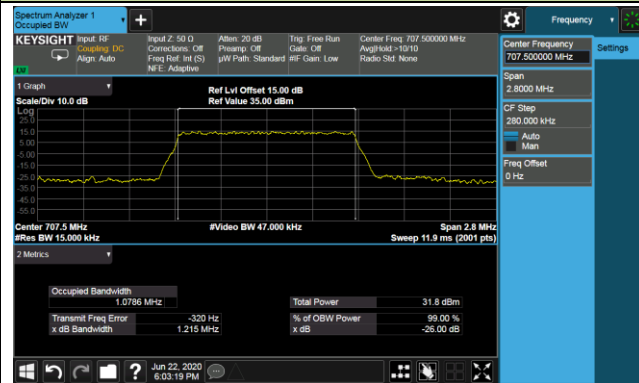


Product	LTE-A Cat 12 M.2 Module	Test Engineer	Candy Luo
Test Date	2020/06/22	Test Site	SR6
Test Band	LTE Band 12		

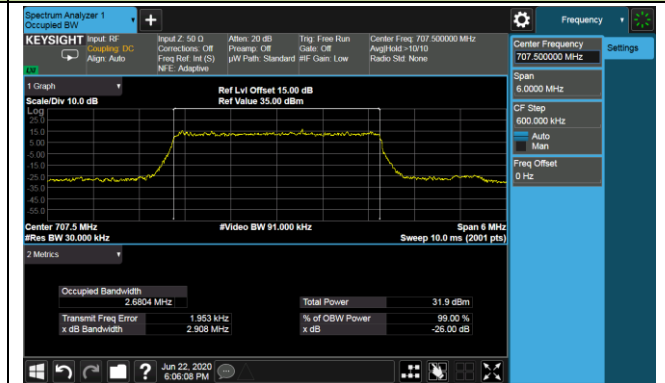
Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK	707.5	1.4	1.08
		3	2.68
		5	4.46
		10	8.94
16QAM	707.5	1.4	1.08
		3	2.68
		5	4.46
		10	8.92
64QAM	707.5	1.4	1.08
		3	2.69
		5	4.45
		10	8.93

99% Bandwidth - QPSK

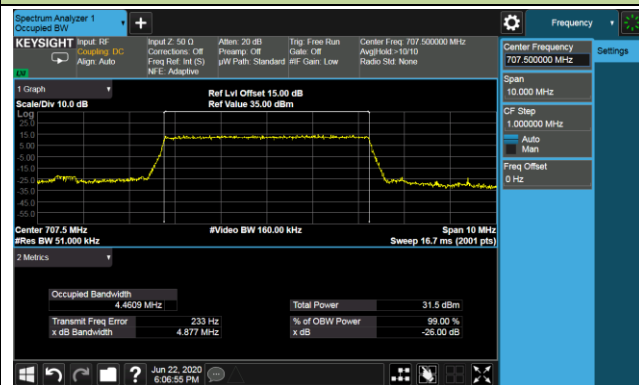
1.4MHz Channel Bandwidth



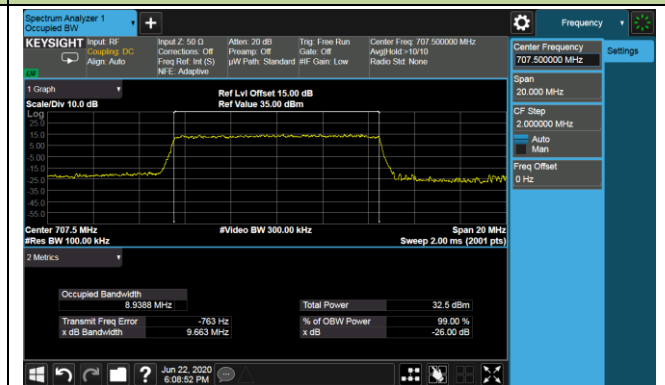
3MHz Channel Bandwidth



5MHz Channel Bandwidth

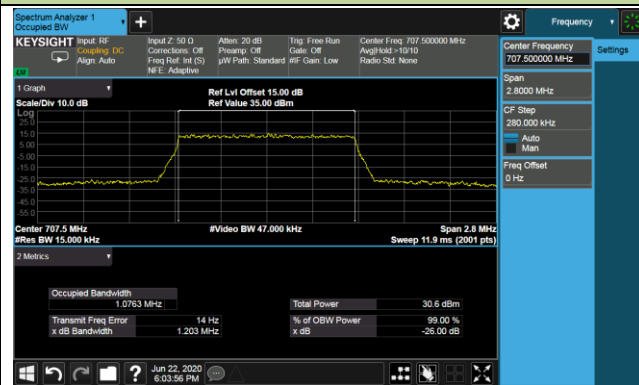


10MHz Channel Bandwidth

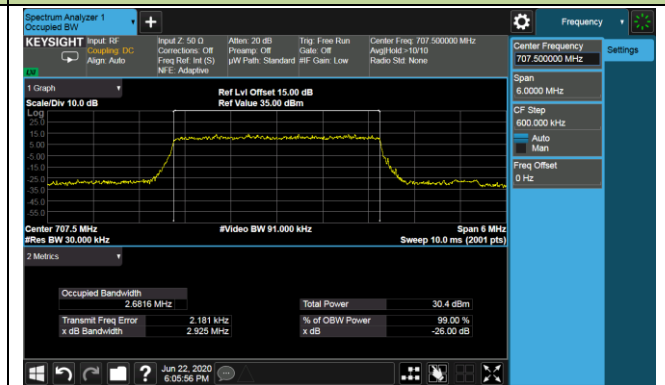


99% Bandwidth - 16QAM

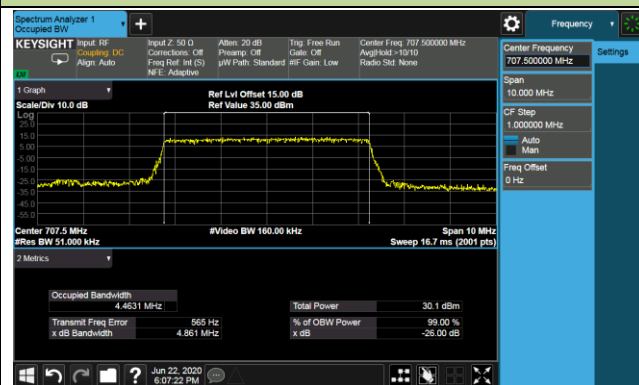
1.4MHz Channel Bandwidth



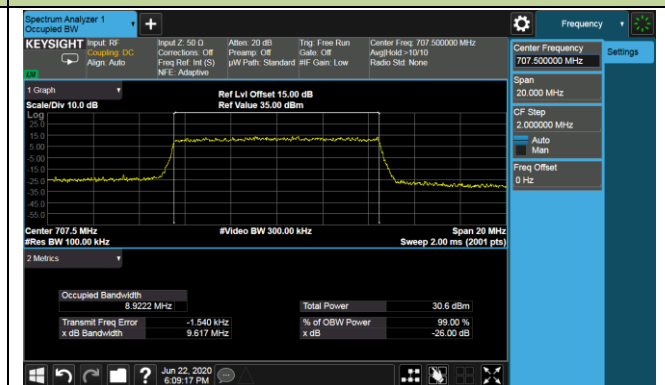
3MHz Channel Bandwidth



5MHz Channel Bandwidth

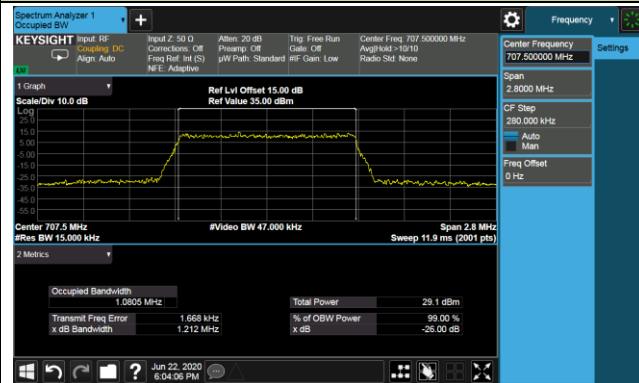


10MHz Channel Bandwidth

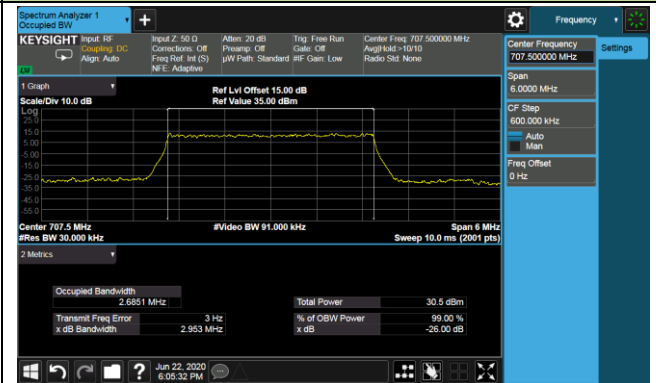


99% Bandwidth - 64QAM

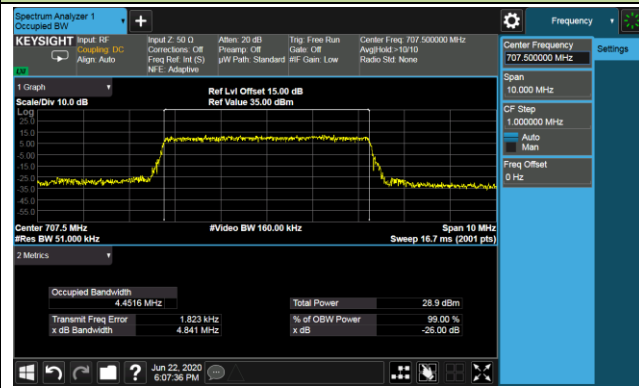
1.4MHz Channel Bandwidth



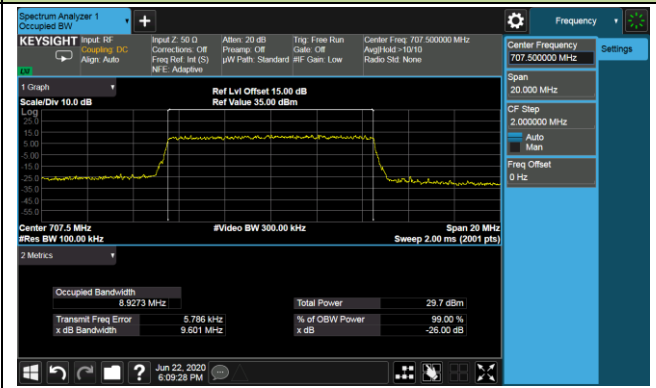
3MHz Channel Bandwidth



5MHz Channel Bandwidth



10MHz Channel Bandwidth

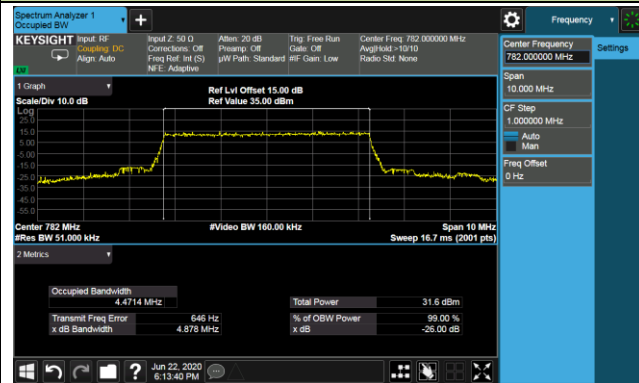


Product	LTE-A Cat 12 M.2 Module	Test Engineer	Candy Luo
Test Date	2020/06/22	Test Site	SR6
Test Band	LTE Band 13		

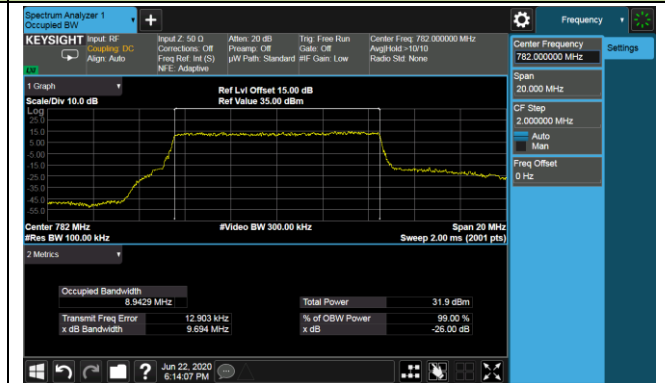
Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK	782	5	4.47
		10	8.94
16QAM	782	5	4.47
		10	8.93
64QAM	782	5	4.47
		10	8.94

99% Bandwidth - QPSK

5MHz Channel Bandwidth

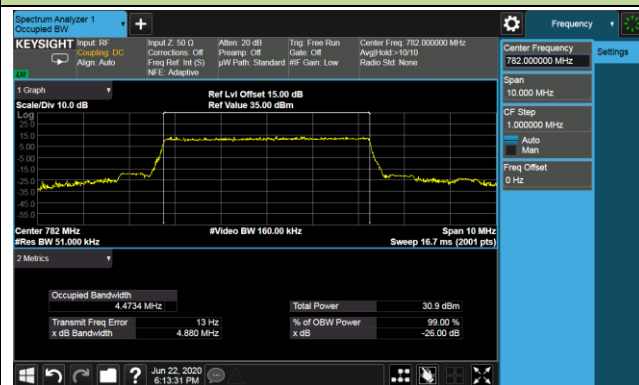


10MHz Channel Bandwidth

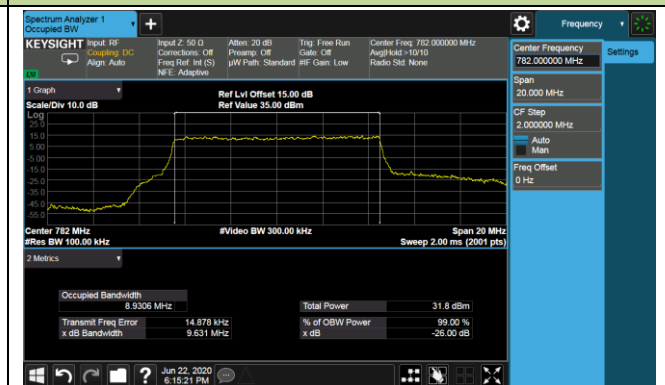


99% Bandwidth - 16QAM

5MHz Channel Bandwidth

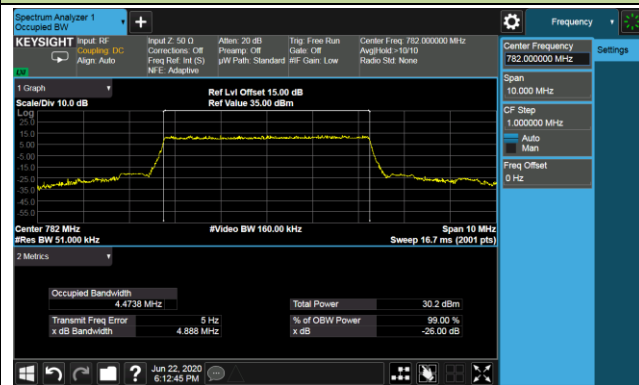


10MHz Channel Bandwidth

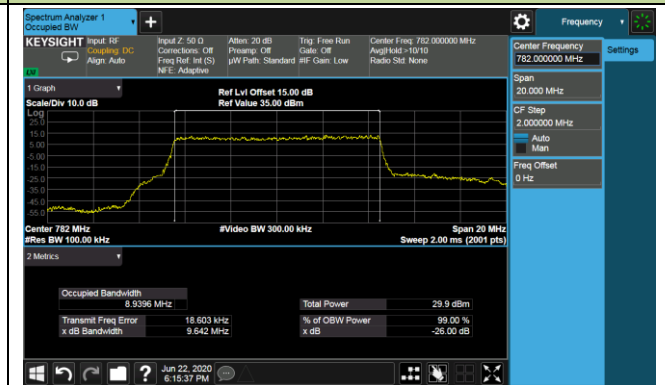


99% Bandwidth - 64QAM

5MHz Channel Bandwidth



10MHz Channel Bandwidth

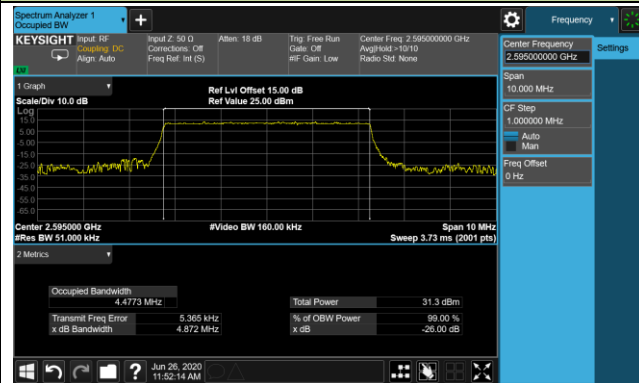


Product	LTE-A Cat 12 M.2 Module	Test Engineer	Candy Luo
Test Date	2020/06/26	Test Site	SR6
Test Band	LTE Band 38/41		

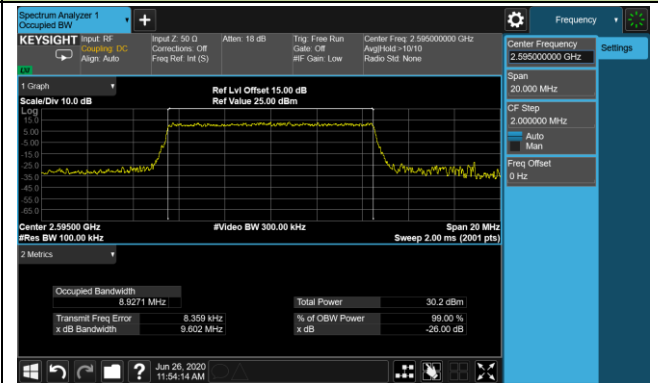
Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK	2595.0	5	4.48
		10	8.93
		15	13.40
		20	17.86
16QAM	2595.0	5	4.46
		10	8.93
		15	13.41
		20	17.83
64QAM	2595.0	5	4.46
		10	8.93
		15	13.42
		20	17.90

99% Bandwidth - QPSK

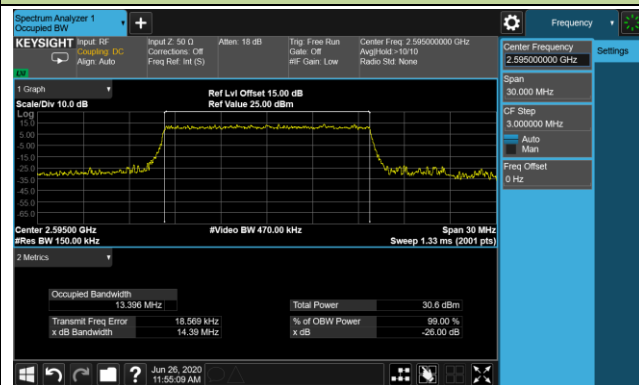
5MHz Channel Bandwidth



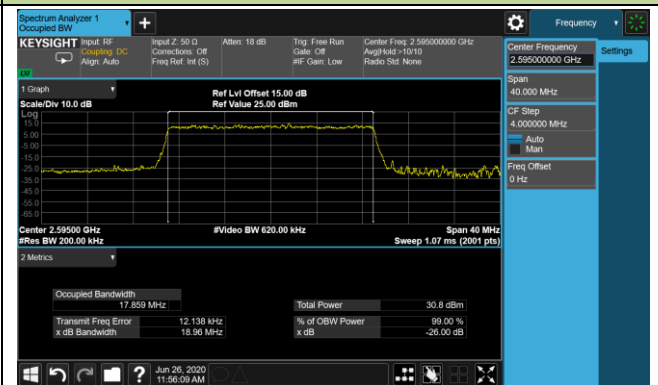
10MHz Channel Bandwidth



15MHz Channel Bandwidth

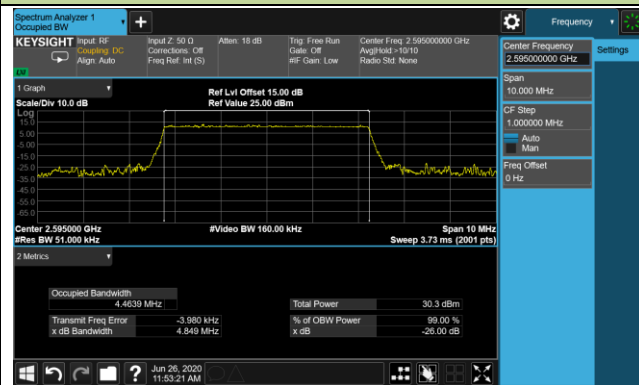


20MHz Channel Bandwidth

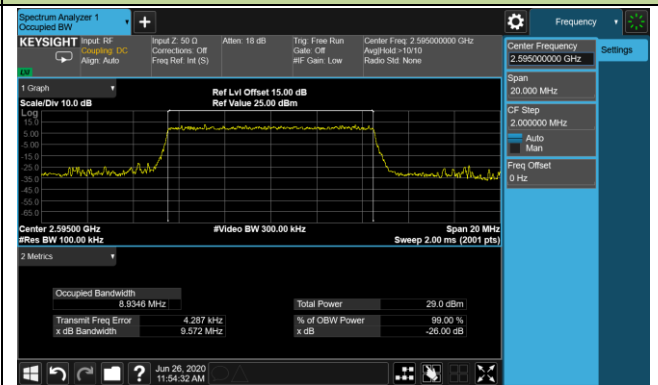


99% Bandwidth - 16QAM

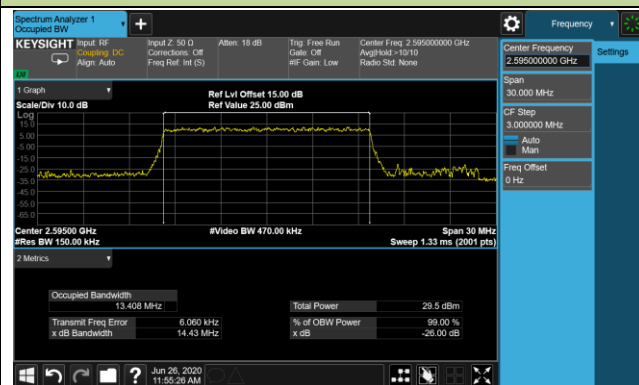
5MHz Channel Bandwidth



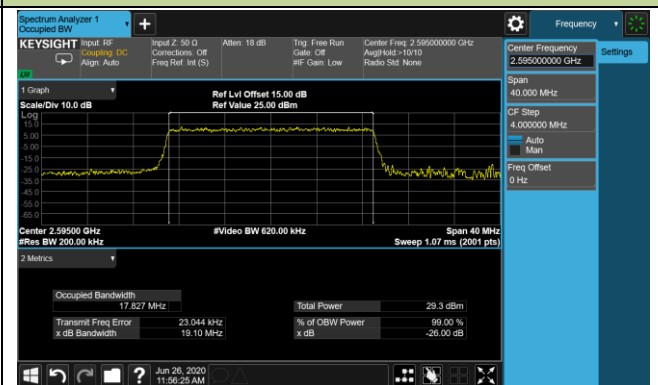
10MHz Channel Bandwidth



15MHz Channel Bandwidth

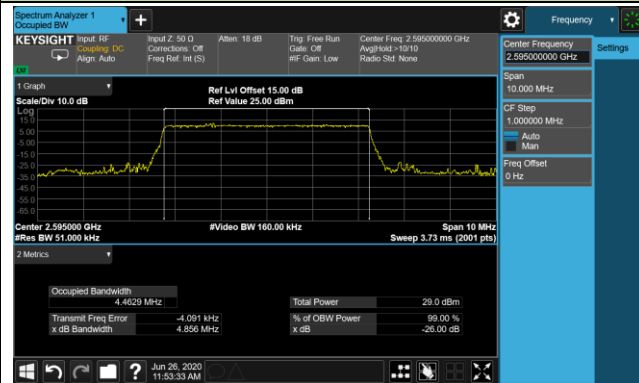


20MHz Channel Bandwidth

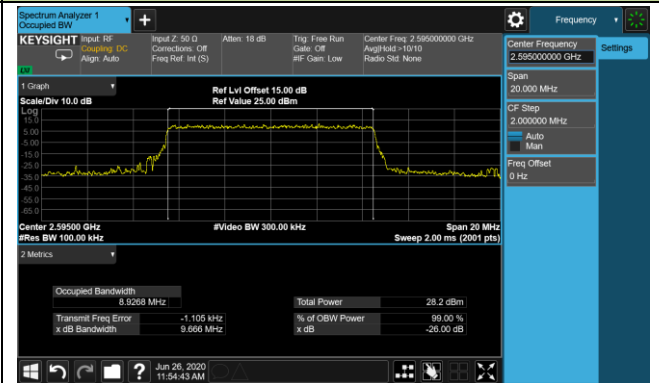


99% Bandwidth - 64QAM

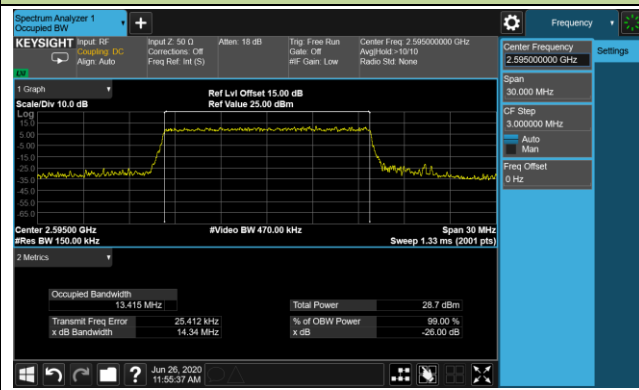
5MHz Channel Bandwidth



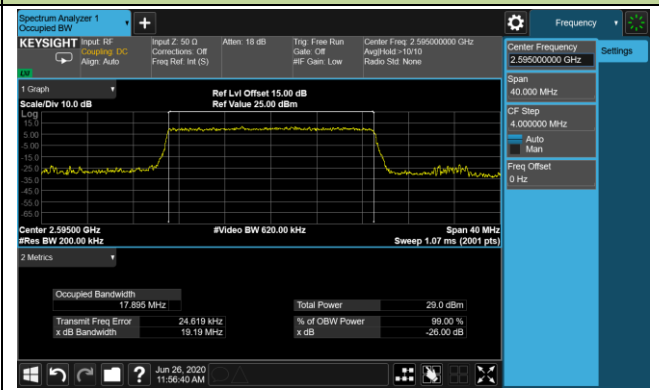
10MHz Channel Bandwidth



15MHz Channel Bandwidth



20MHz Channel Bandwidth

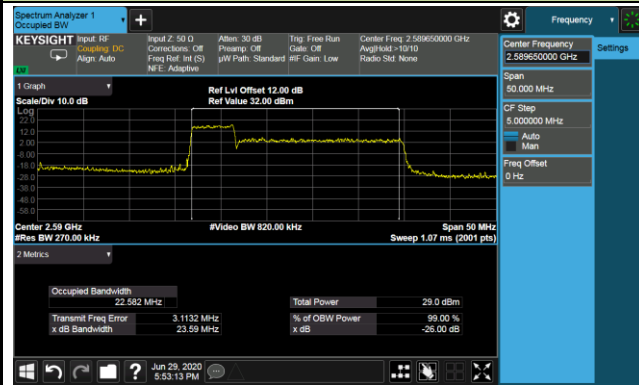


Product	LTE-A Cat 12 M.2 Module	Test Engineer	Candy Luo
Test Date	2020/06/29	Test Site	SR6
Test Band	Intra-Band CA_41C		

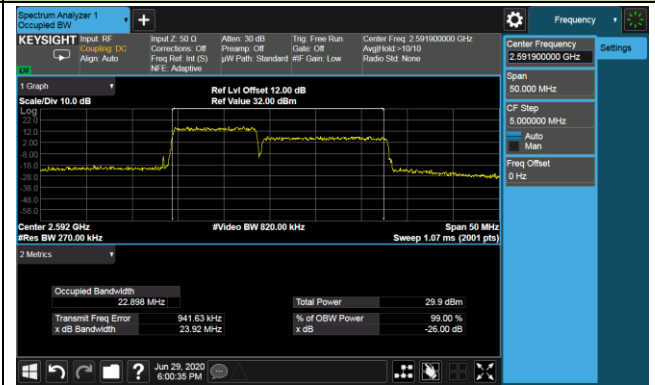
Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK	2593.025	5+20	22.58
	2593.025	10+15	22.90
	2593.050	10+20	27.53
	2592.975	15+10	22.90
	2593.000	15+15	28.07
	2592.975	15+20	32.35
	2592.975	20+5	22.79
	2593.050	20+10	27.58
	2593.025	20+15	32.40
	2593.000	20+20	37.37
16QAM	2593.025	5+20	22.51
	2593.025	10+15	22.92
	2593.050	10+20	27.51
	2592.975	15+10	22.93
	2593.000	15+15	28.08
	2592.975	15+20	32.29
	2592.975	20+5	22.77
	2593.050	20+10	27.57
	2593.025	20+15	32.40
	2593.000	20+20	37.24
64QAM	2593.025	5+20	22.53
	2593.025	10+15	22.86
	2593.050	10+20	27.41
	2592.975	15+10	23.07
	2593.000	15+15	28.11
	2592.975	15+20	32.37
	2592.975	20+5	22.76
	2593.050	20+10	27.54
	2593.025	20+15	32.43
	2593.000	20+20	37.17

99% Bandwidth - QPSK

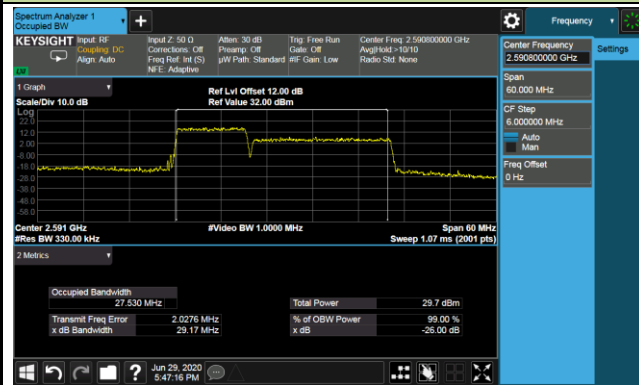
5+20MHz Channel Bandwidth



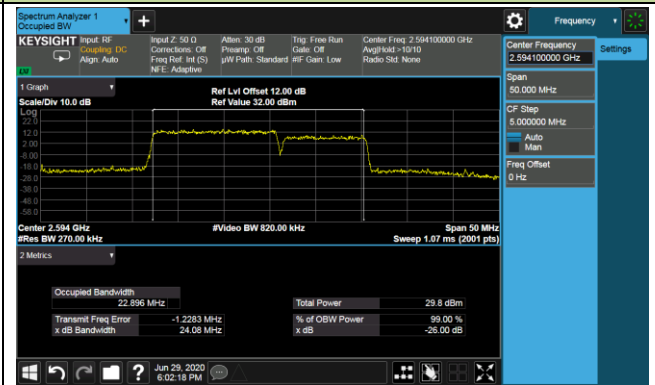
10+15MHz Channel Bandwidth



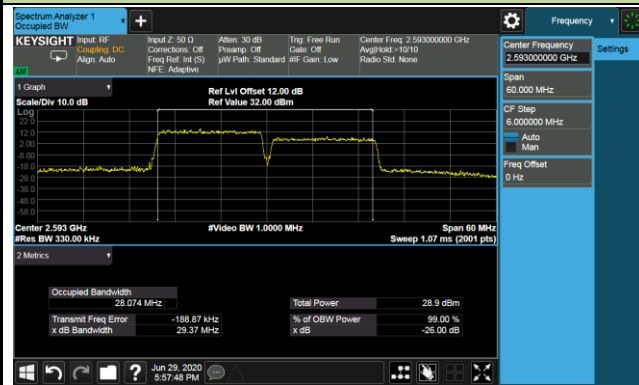
10+20MHz Channel Bandwidth



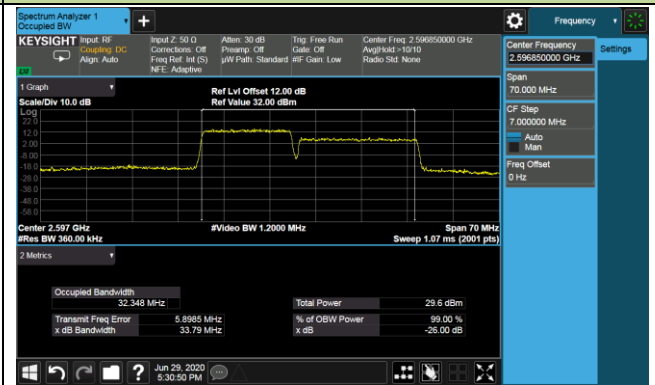
15+10MHz Channel Bandwidth



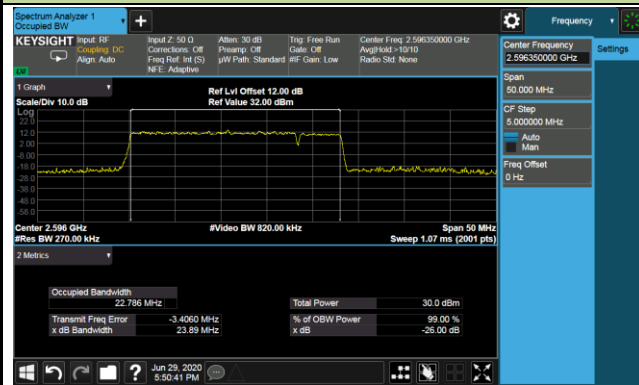
15+15MHz Channel Bandwidth



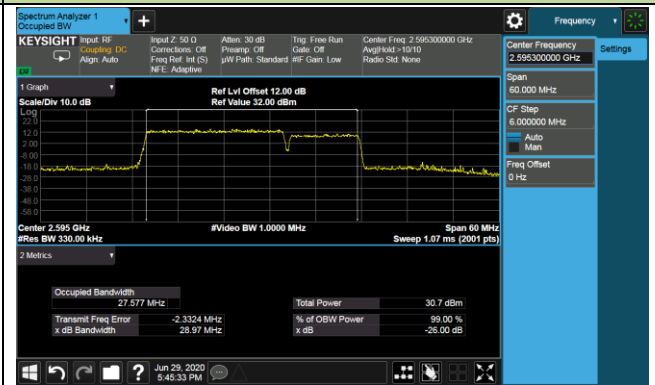
15+20MHz Channel Bandwidth

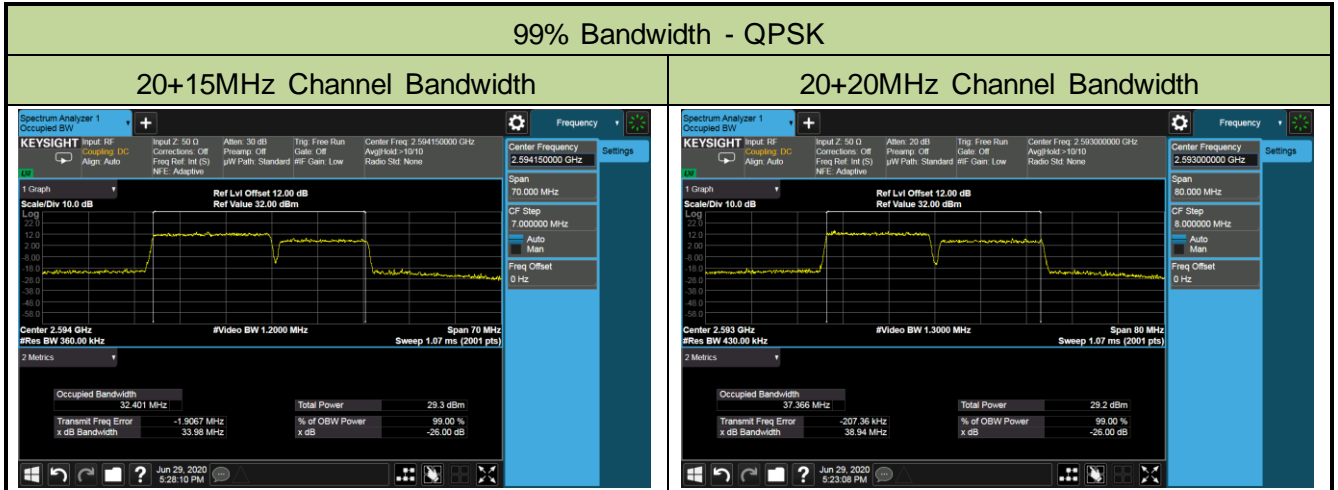


20+5MHz Channel Bandwidth



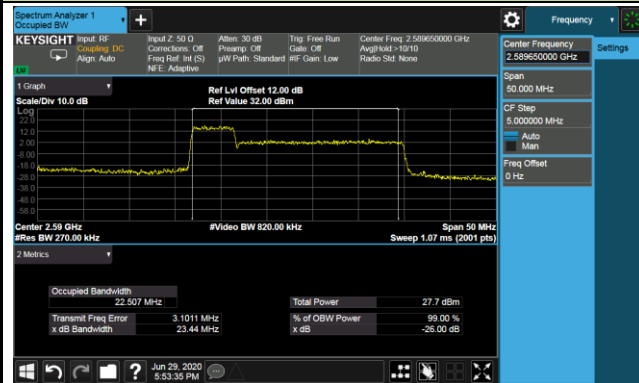
20+10MHz Channel Bandwidth



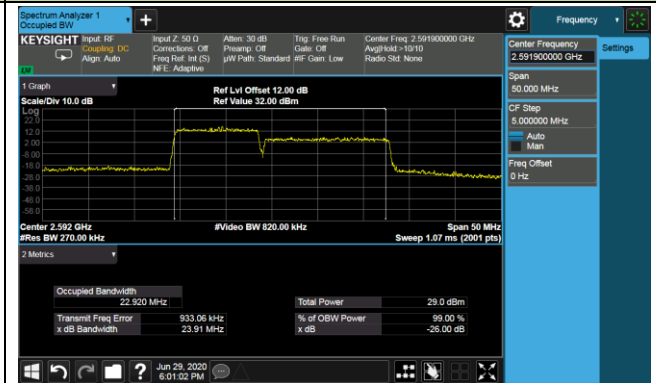


99% Bandwidth - 16QAM

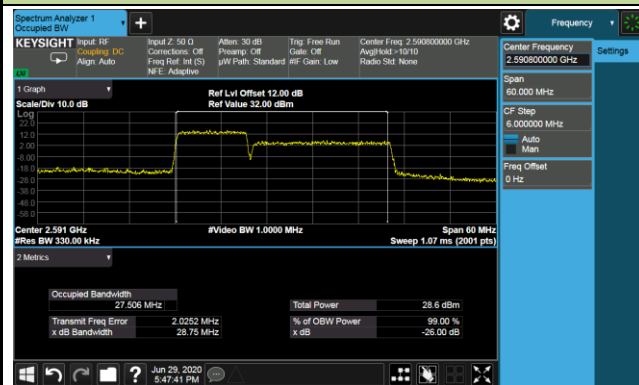
5+20MHz Channel Bandwidth



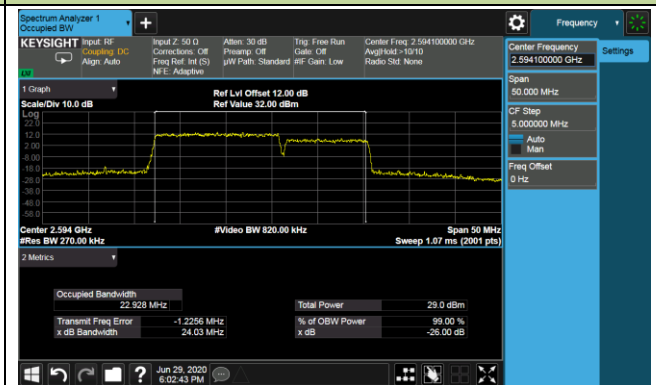
10+15MHz Channel Bandwidth



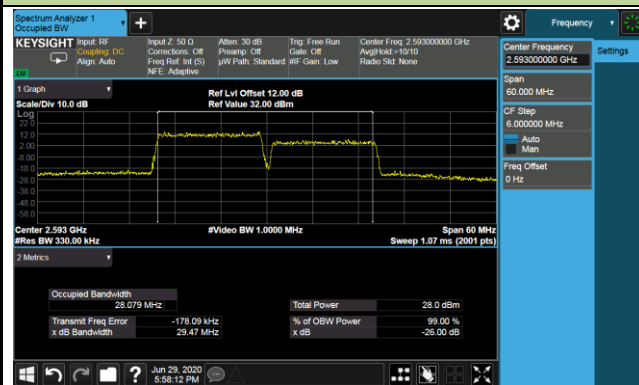
10+20MHz Channel Bandwidth



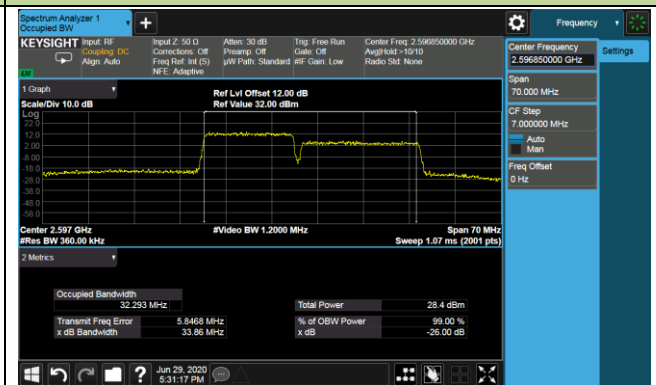
15+10MHz Channel Bandwidth



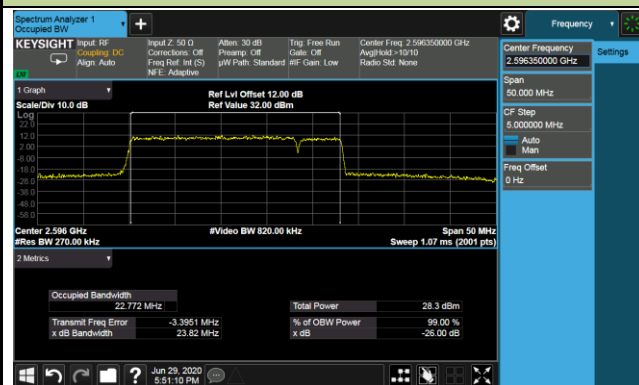
15+15MHz Channel Bandwidth



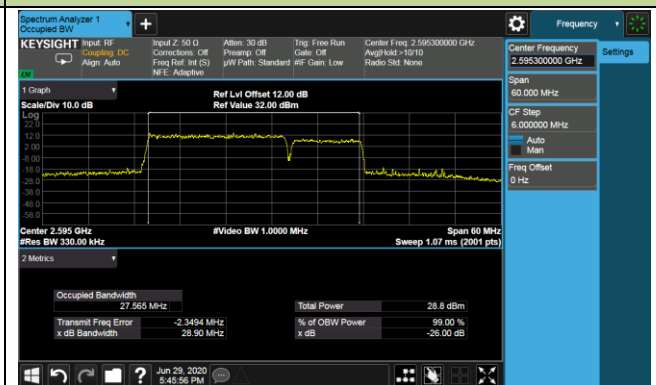
15+20MHz Channel Bandwidth

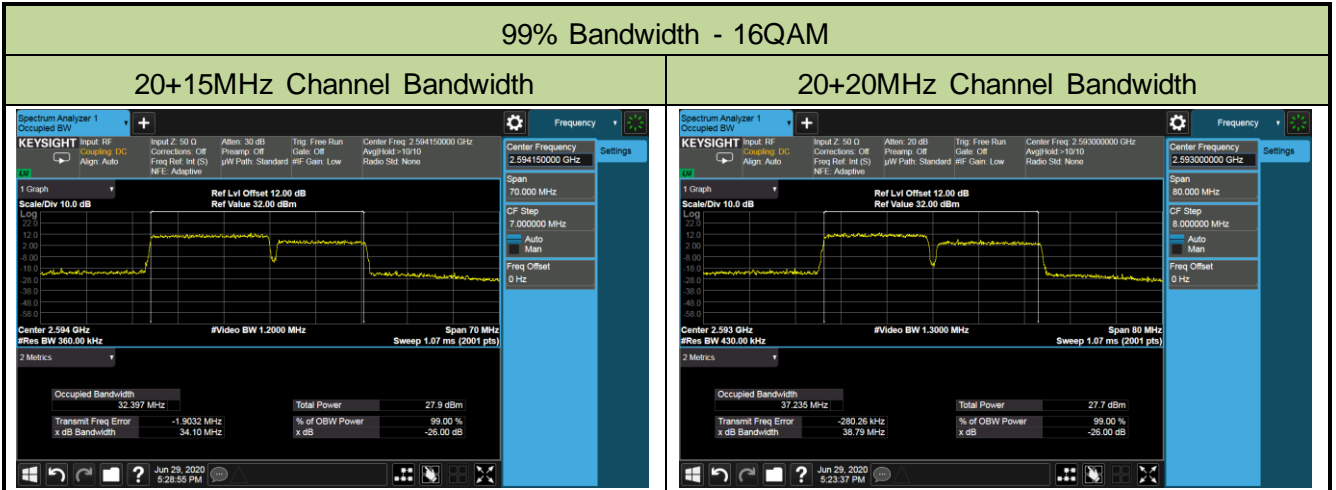


20+5MHz Channel Bandwidth



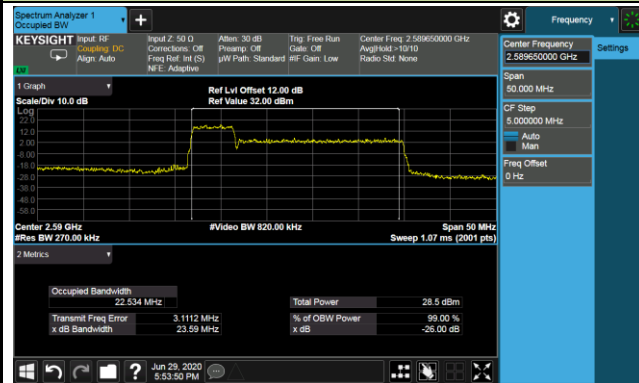
20+10MHz Channel Bandwidth



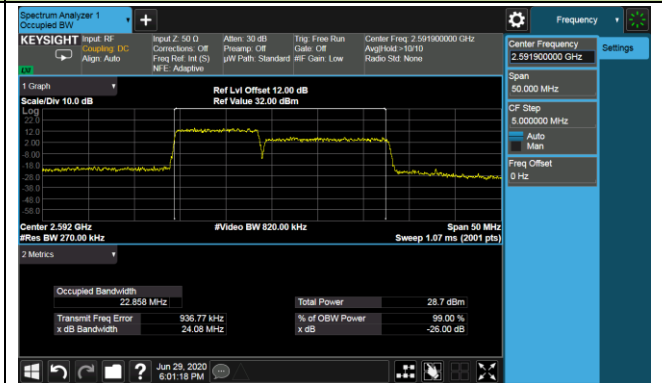


99% Bandwidth - 64QAM

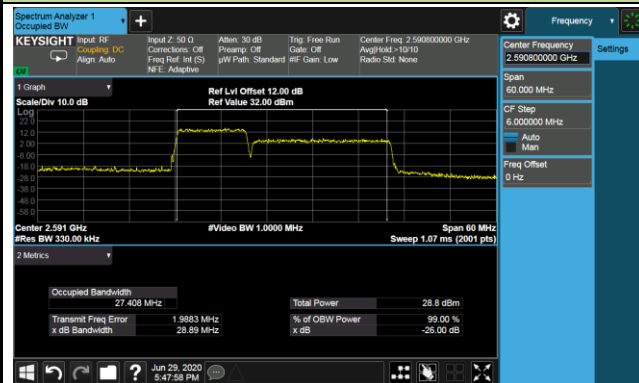
5+20MHz Channel Bandwidth



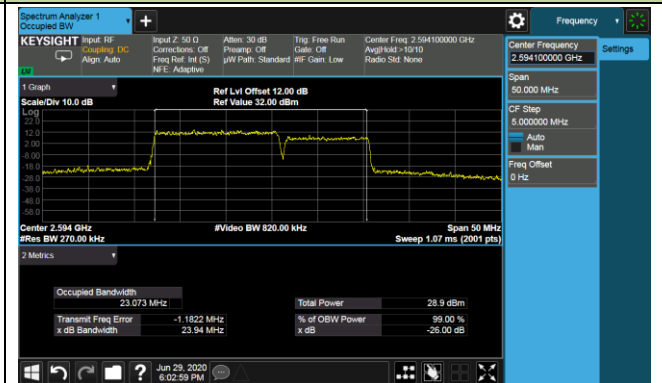
10+15MHz Channel Bandwidth



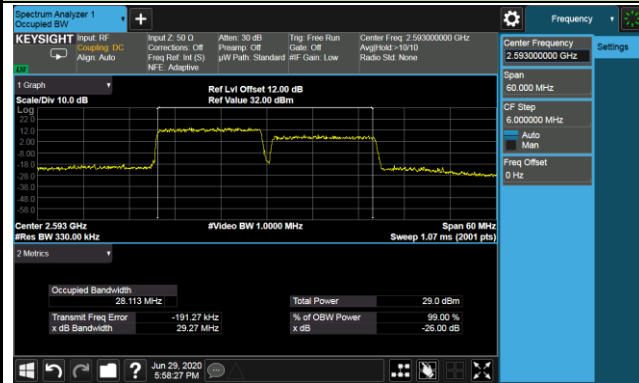
10+20MHz Channel Bandwidth



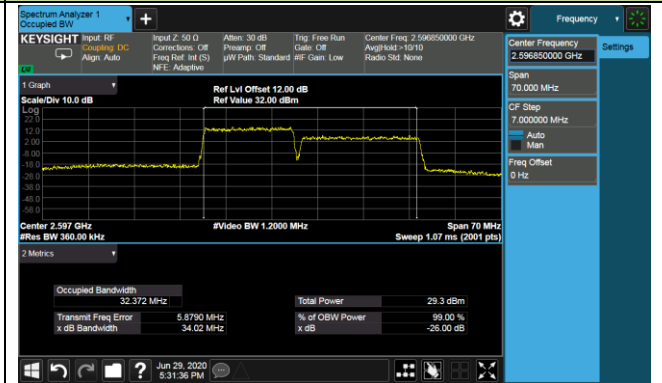
15+10MHz Channel Bandwidth



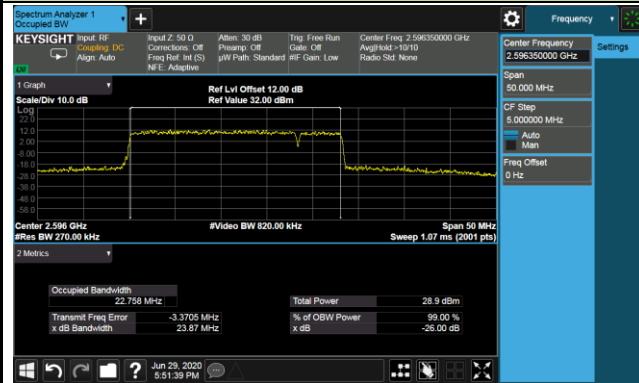
15+15MHz Channel Bandwidth



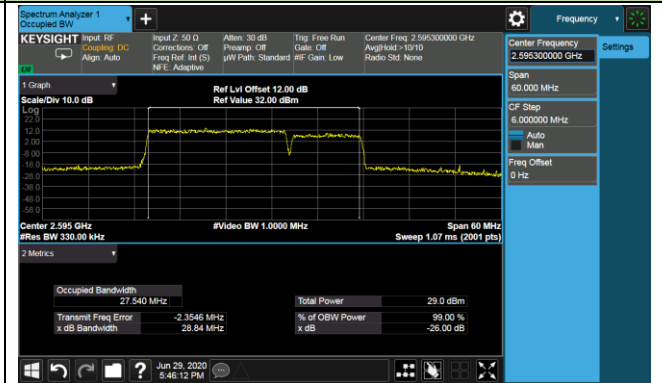
15+20MHz Channel Bandwidth

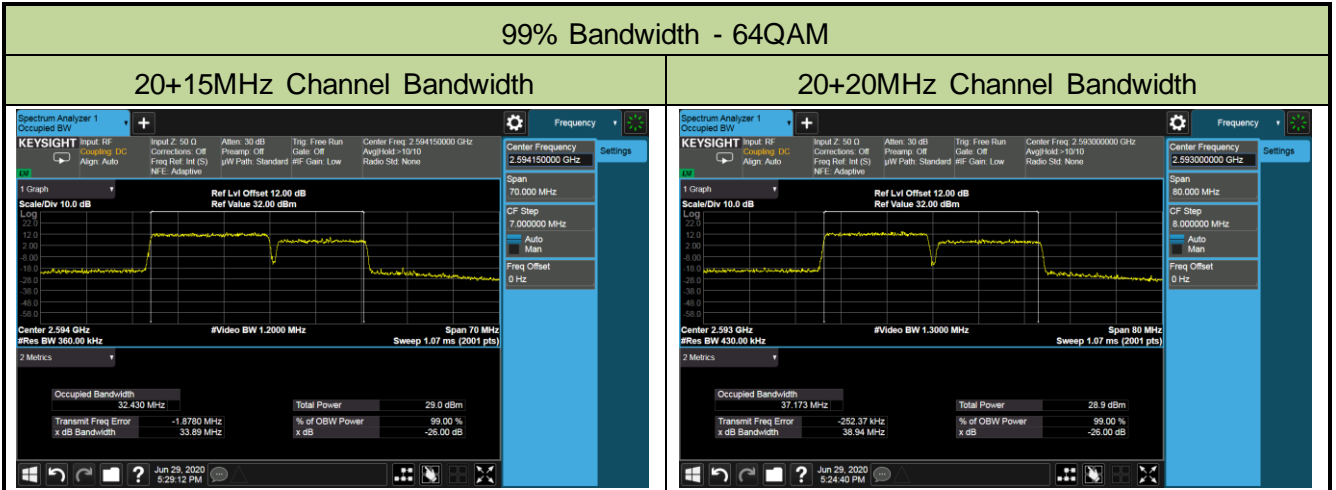


20+5MHz Channel Bandwidth



20+10MHz Channel Bandwidth





Product	LTE-A Cat 12 M.2 Module	Test Engineer	Candy Luo
Test Date	2020/07/16	Test Site	SR6
Test Band	LTE Band 41 For HPUE		

Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK	2595.0	5	4.47
		10	8.95
		15	13.41
		20	17.86
16QAM	2595.0	5	4.46
		10	8.95
		15	13.43
		20	17.88
64QAM	2595.0	5	4.48
		10	8.94
		15	13.41
		20	17.85