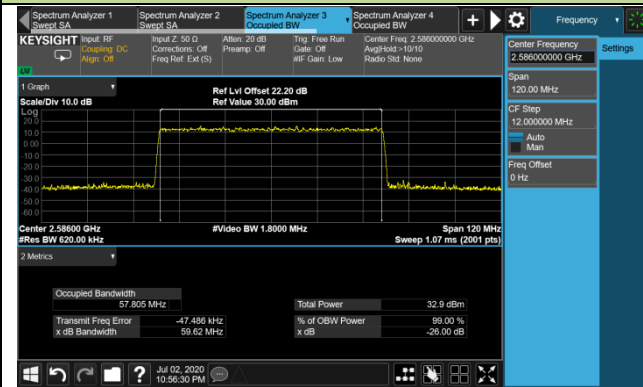
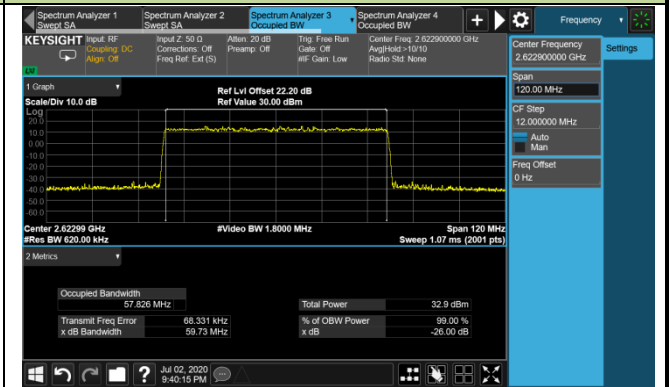


5G NR Emission Bandwidth - 64QAM

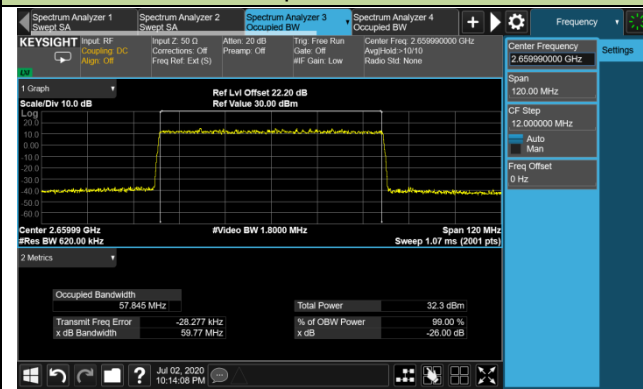
Bottom Channel



Middle Channel

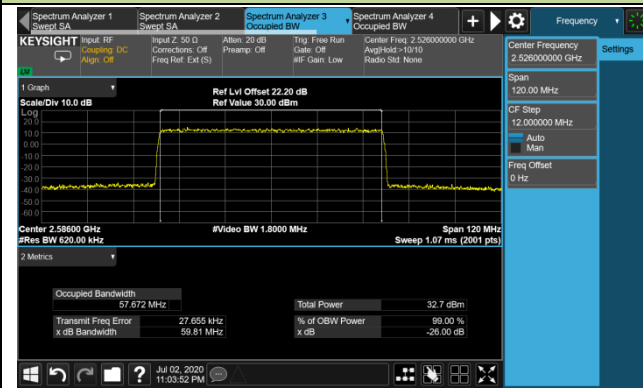


Top Channel

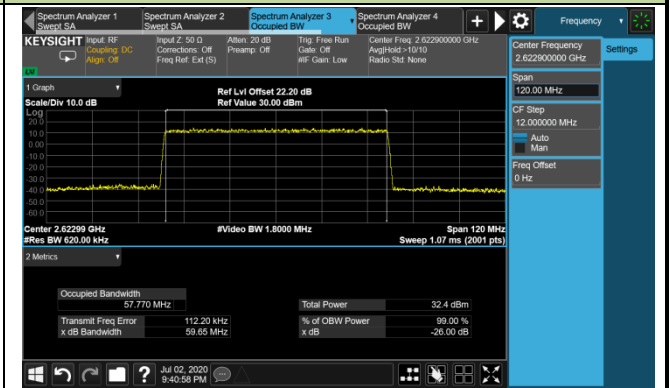


5G NR Emission Bandwidth - 256QAM

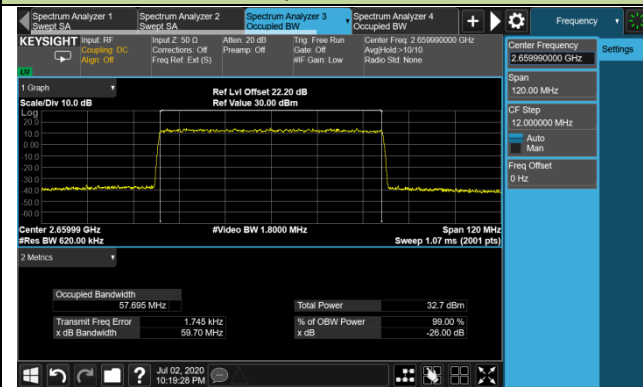
Bottom Channel



Middle Channel



Top Channel

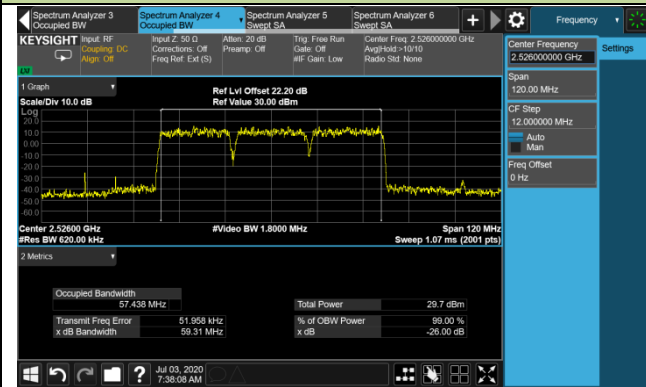


Product	AirScale Indoor Radio ASiR 5G-pRRH	Test Engineer	Kevin Ker
Test Site	SR2	Test Date	2020/07/03
Test Configuration	LTE 20+20+20MHz + 5G NR 100MHz		
Test Channel	Bottom Channel: LTE 2506 + 2526 + 2546MHz, 5G NR 2605.98MHz Middle Channel: LTE 2523 + 2543 + 2563MHz, 5G NR 2622.99MHz Top Channel: LTE 2540 + 2560+ 2580MHz, 5G NR 2640MHz		

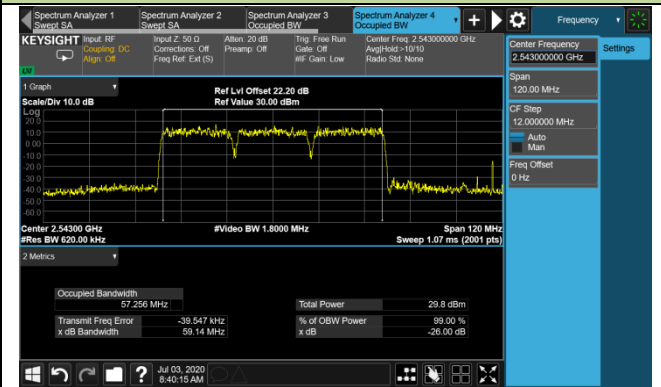
	Frequency (MHz)	Bandwidth (MHz)	26dB Bandwidth (MHz)		Total 26dB Bandwidth (MHz)	99% Bandwidth (MHz)		Total 99% Bandwidth (MHz)
			LTE	5G NR		LTE	5G NR	
Ant 3 / Ant 2+3 (LTE) + Ant 0 / Ant 0+1 (5G NR)								
QPSK	Bottom	60+100	59.31	100.4	159.71	57.44	97.09	154.53
	Middle	60+100	59.14	100.4	159.54	57.26	97.06	154.32
	Top	60+100	58.99	100.4	159.39	57.53	97.04	154.57
16QAM	Bottom	60+100	59.11	100.3	159.41	57.25	96.93	154.18
	Middle	60+100	71.23	100.2	171.43	57.78	96.87	154.65
	Top	60+100	59.26	100.4	159.66	57.70	96.97	154.67
64QAM	Bottom	60+100	73.22	100.6	173.82	57.43	97.21	154.64
	Middle	60+100	74.98	100.5	175.48	57.60	97.19	154.79
	Top	60+100	77.29	100.5	177.79	57.45	97.25	154.70
256QAM	Bottom	60+100	60.78	100.5	161.28	57.62	97.42	155.04
	Middle	60+100	75.73	100.5	176.23	57.52	97.32	154.84
	Top	60+100	71.65	100.5	172.15	57.67	97.30	154.97

LTE Emission Bandwidth - QPSK

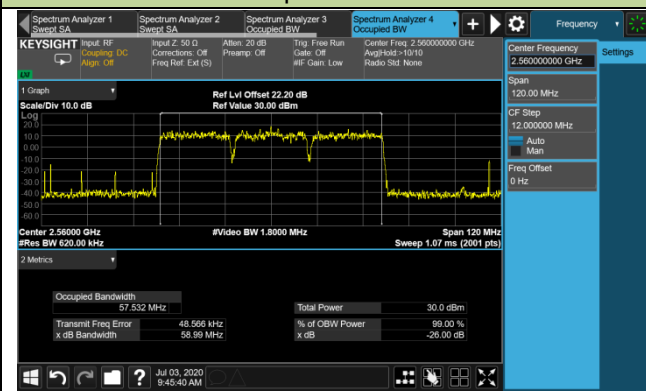
Bottom Channel



Middle Channel

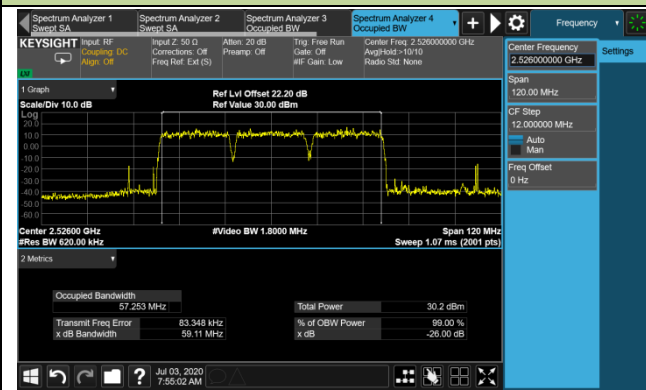


Top Channel

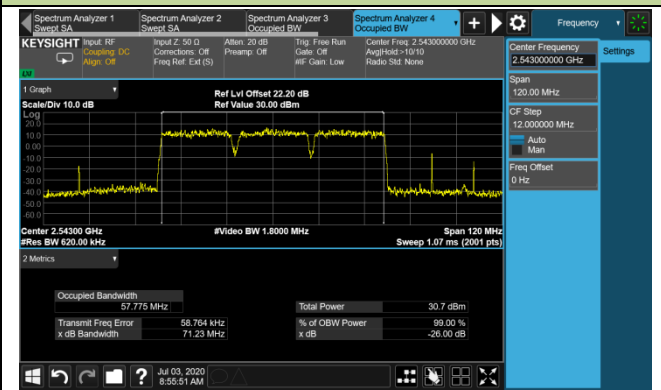


LTE Emission Bandwidth - 16QAM

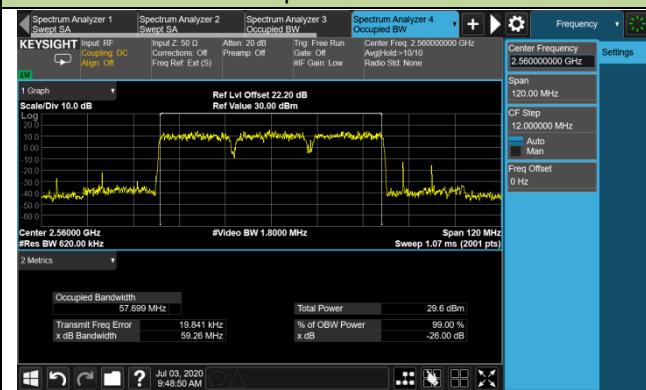
Bottom Channel



Middle Channel

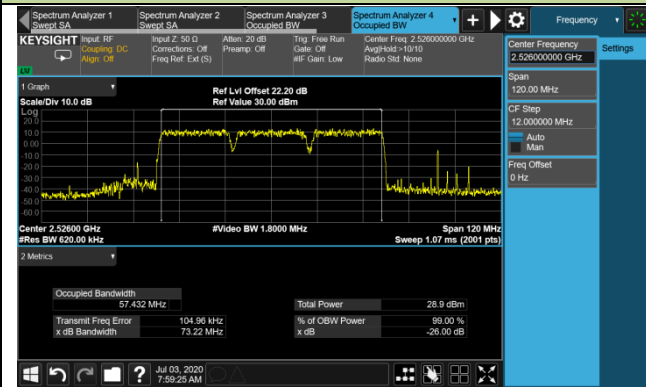


Top Channel

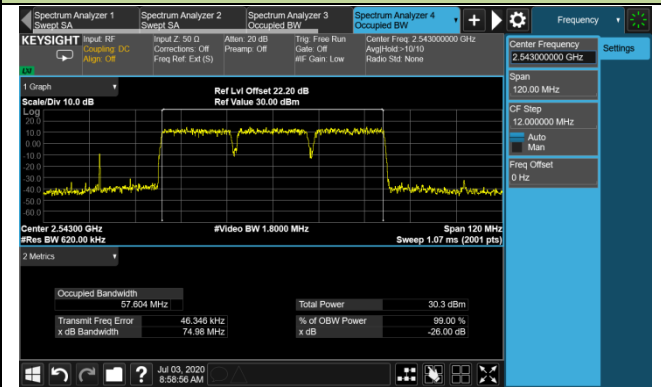


LTE Emission Bandwidth - 64QAM

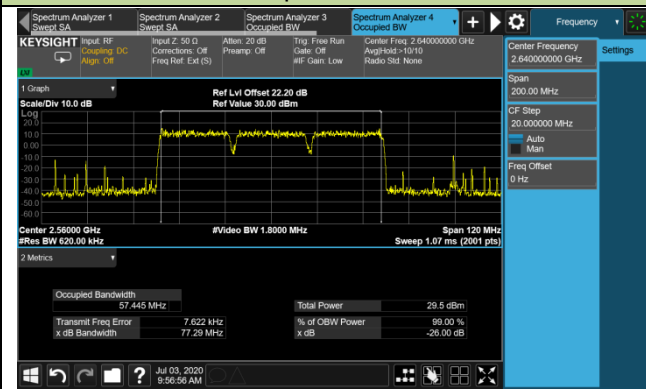
Bottom Channel



Middle Channel

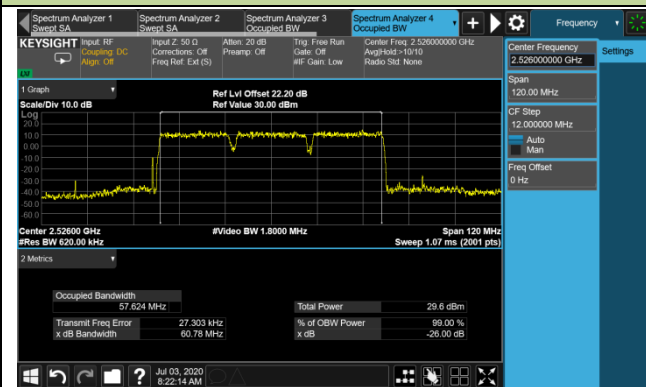


Top Channel

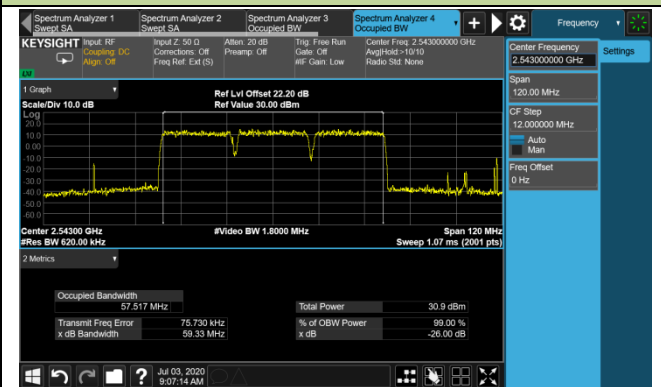


LTE Emission Bandwidth - 256QAM

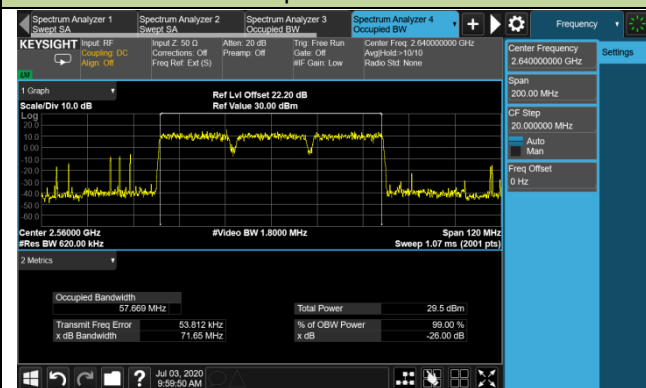
Bottom Channel



Middle Channel

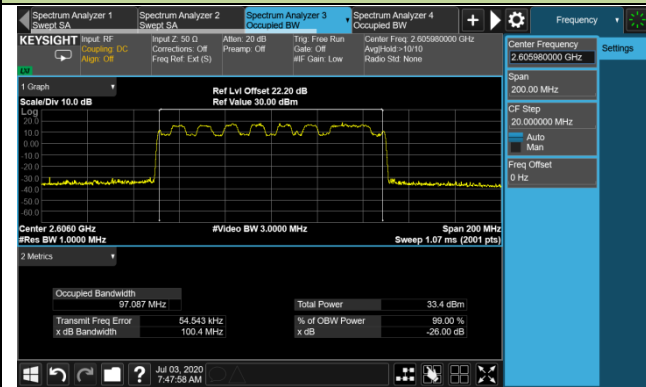


Top Channel

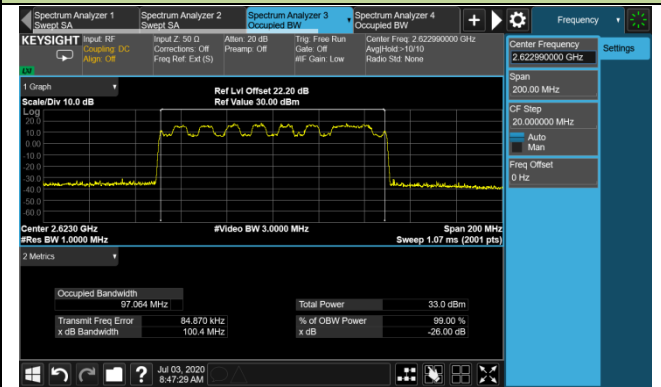


5G NR Emission Bandwidth - QPSK

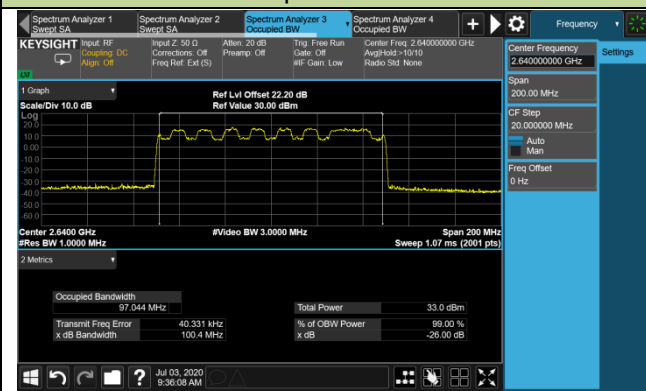
Bottom Channel



Middle Channel

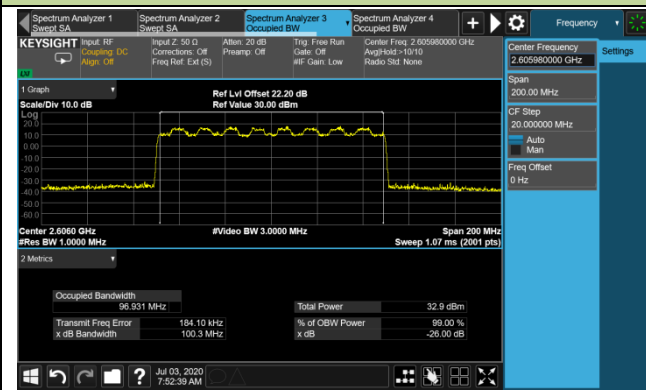


Top Channel

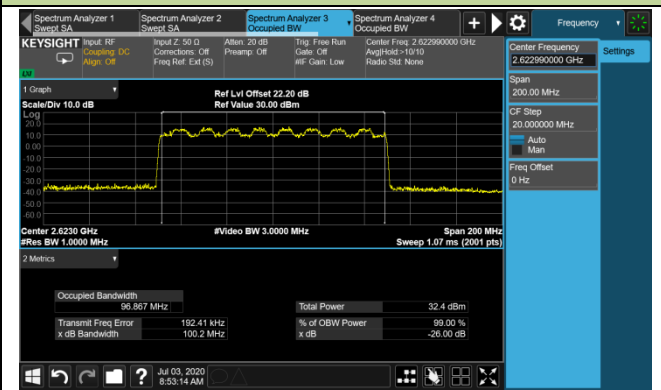


5G NR Emission Bandwidth - 16QAM

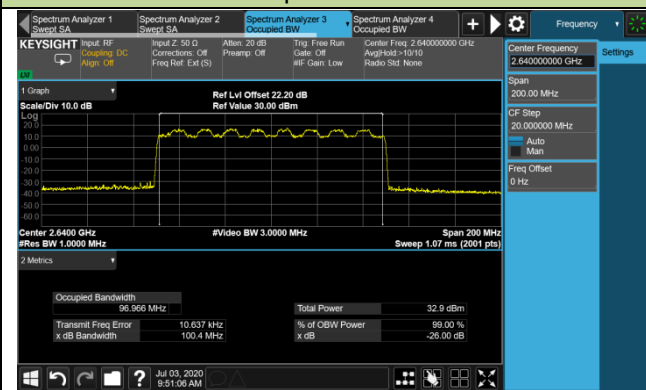
Bottom Channel



Middle Channel

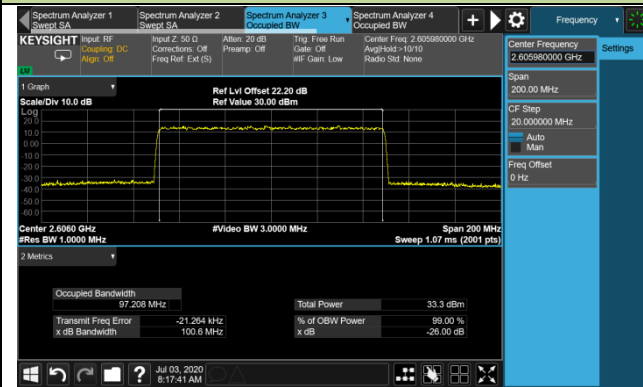


Top Channel

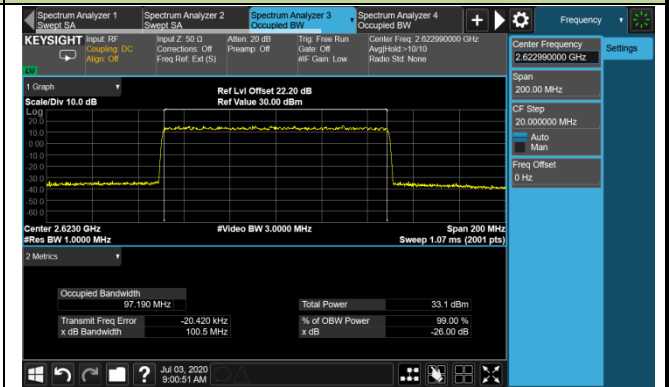


5G NR Emission Bandwidth - 64QAM

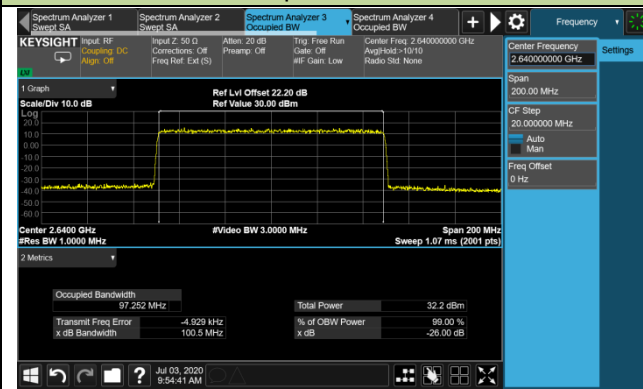
Bottom Channel



Middle Channel

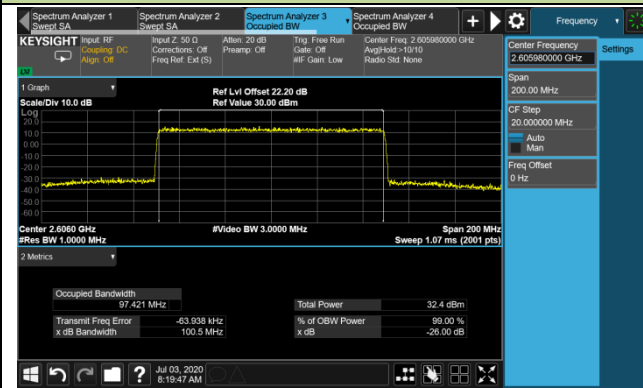


Top Channel

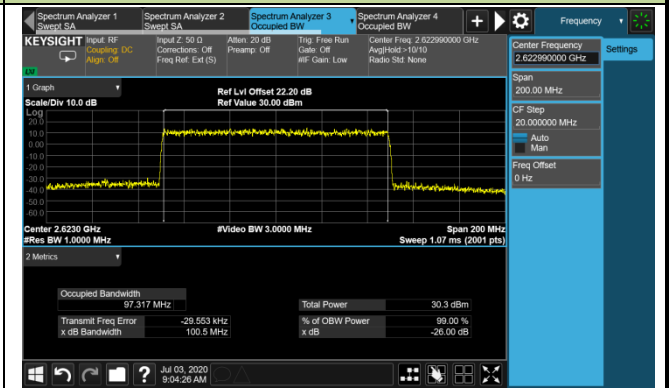


5G NR Emission Bandwidth - 256QAM

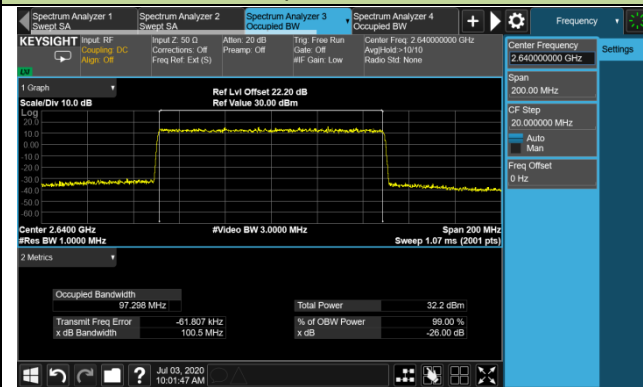
Bottom Channel



Middle Channel



Top Channel

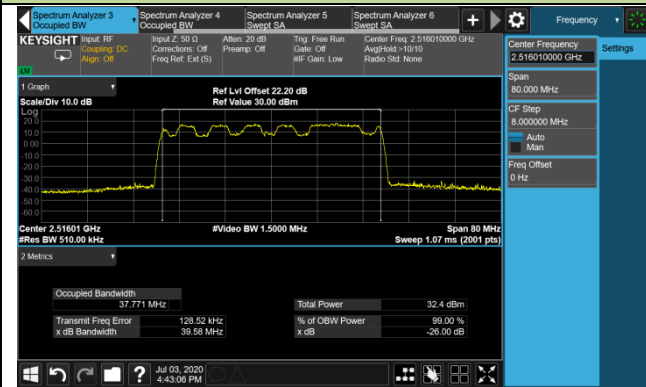


Product	AirScale Indoor Radio ASiR 5G-pRRH	Test Engineer	Kevin Ker
Test Site	SR2	Test Date	2020/07/03
Test Configuration	5G NR 40MHz + LTE 20MHz		
Test Channel	Bottom Channel: 5G NR 2516.01MHz, LTE 2546MHz Middle Channel: 5G NR 2583MHz, LTE 2613MHz Top Channel: 5G NR 2650.02MHz, LTE 2680MHz		

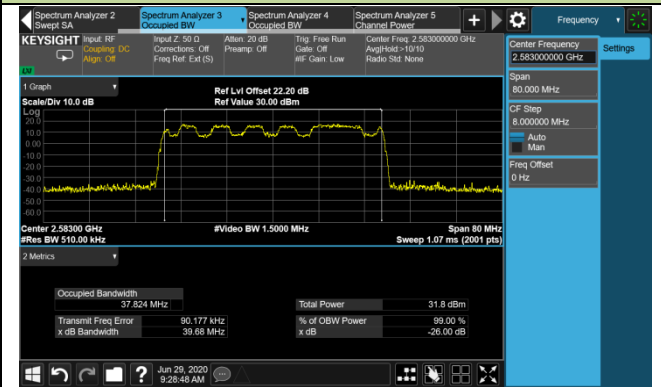
Modulation	Frequency (MHz)	Bandwidth (MHz)	26dB Bandwidth (MHz)		Total 26dB Bandwidth (MHz)	99% Bandwidth (MHz)		Total 99% Bandwidth (MHz)
			5G NR	LTE		5G NR	LTE	
Ant 0 / Ant 0+1 (5G NR) + Ant 3 / Ant 2+3 (LTE)								
QPSK	Bottom	40+20	39.58	18.50	58.08	37.77	17.91	55.68
	Middle	40+20	39.68	18.79	58.47	37.82	17.85	55.67
	Top	40+20	39.69	18.71	58.40	37.87	17.91	55.78
16QAM	Bottom	40+20	39.27	18.46	57.73	37.82	17.79	55.61
	Middle	40+20	39.70	18.88	58.58	37.97	17.90	55.87
	Top	40+20	39.48	18.93	58.41	37.87	17.91	55.78
64QAM	Bottom	40+20	39.64	18.56	58.20	37.84	17.83	55.67
	Middle	40+20	39.57	18.94	58.51	37.85	17.85	55.70
	Top	40+20	39.58	18.90	58.48	37.84	17.87	55.71
256QAM	Bottom	40+20	39.53	18.82	58.35	37.78	17.91	55.69
	Middle	40+20	39.63	18.84	58.47	37.83	17.88	55.71
	Top	40+20	39.58	18.88	58.46	37.81	17.88	55.69

5G NR Emission Bandwidth - QPSK

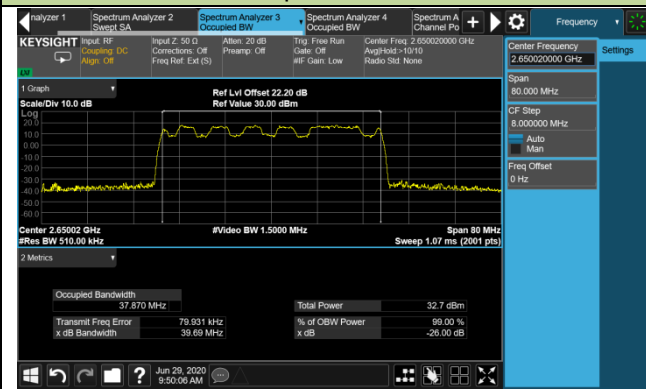
Bottom Channel



Middle Channel

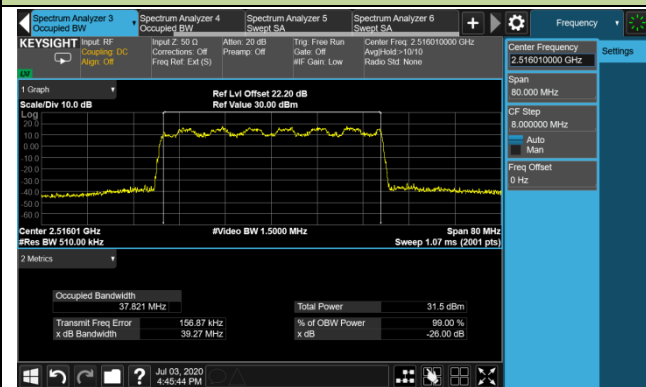


Top Channel

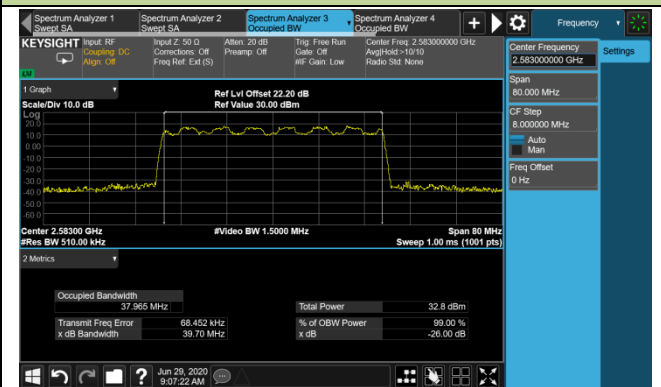


5G NR Emission Bandwidth - 16QAM

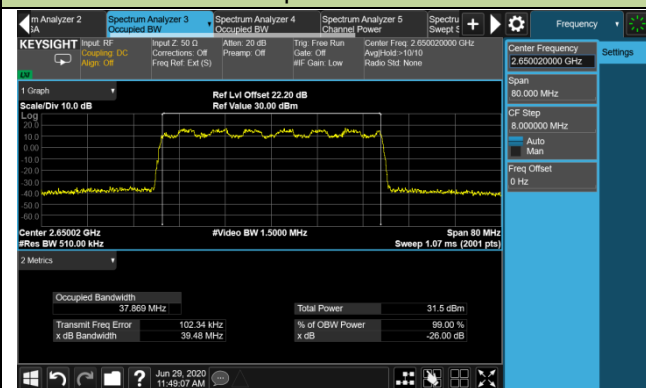
Bottom Channel



Middle Channel

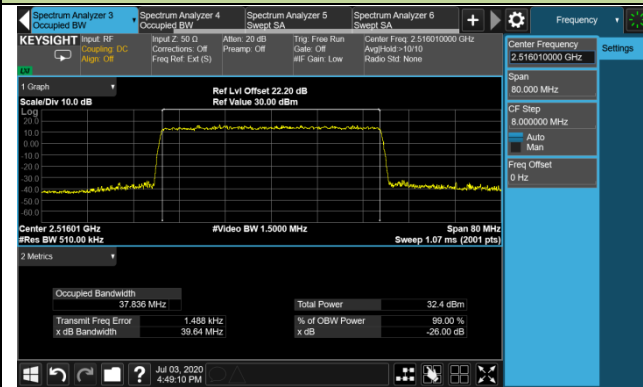


Top Channel

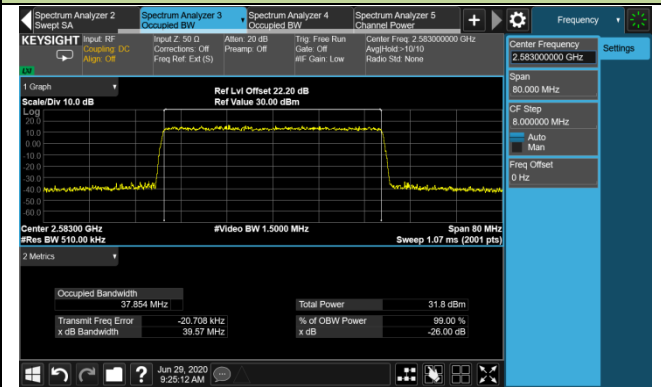


5G NR Emission Bandwidth - 64QAM

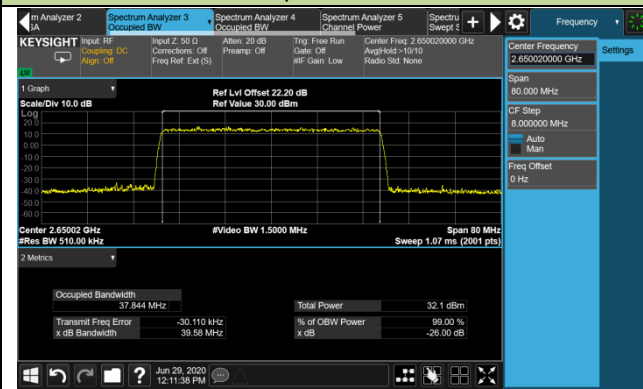
Bottom Channel



Middle Channel

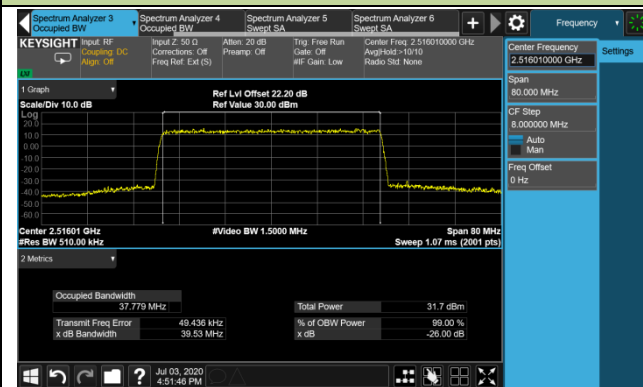


Top Channel

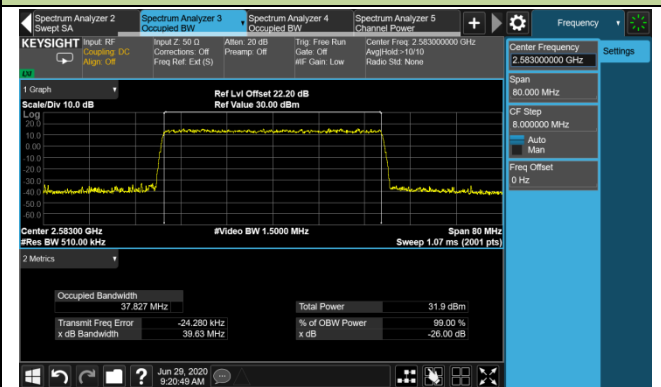


5G NR Emission Bandwidth - 256QAM

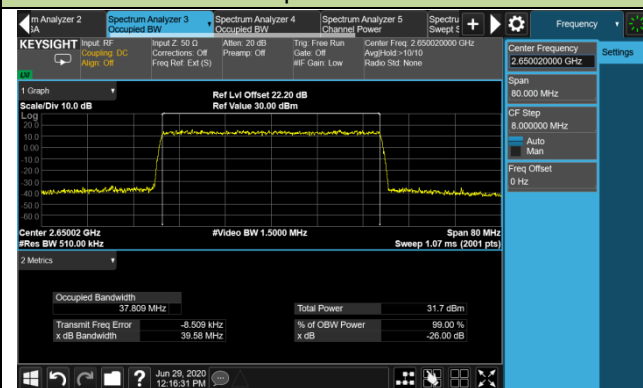
Bottom Channel



Middle Channel

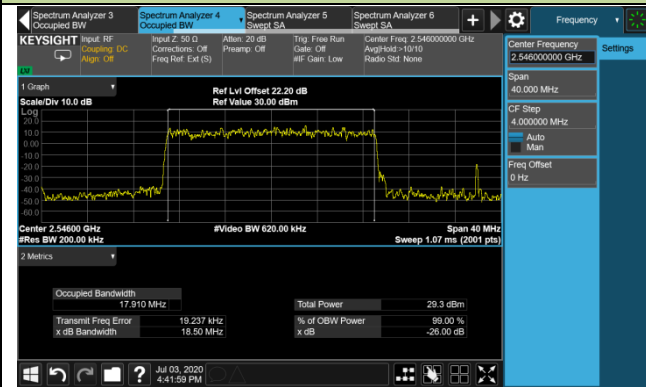


Top Channel

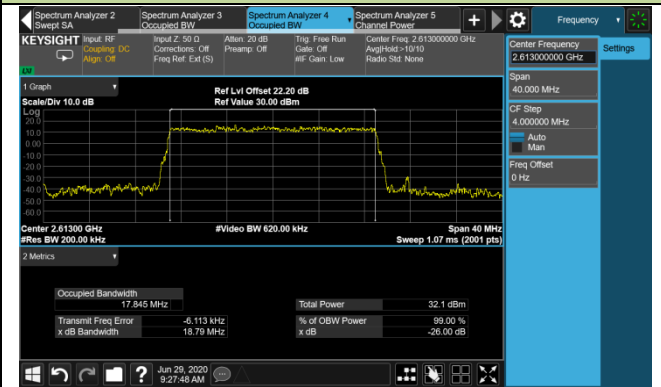


LTE Emission Bandwidth - QPSK

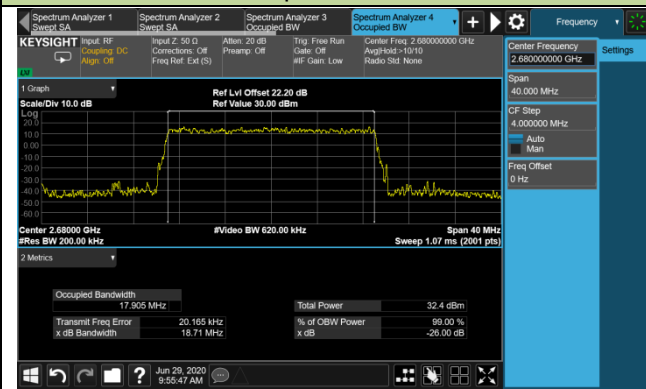
Bottom Channel



Middle Channel

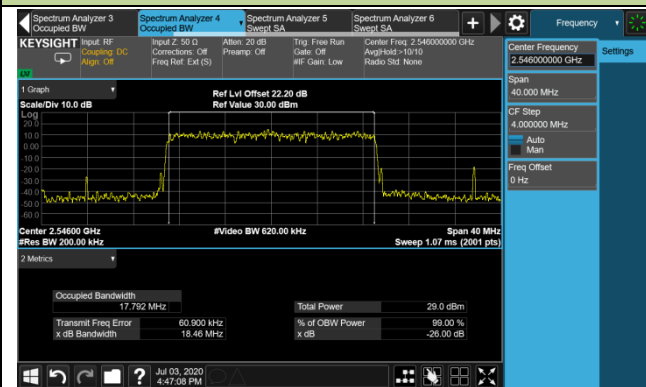


Top Channel

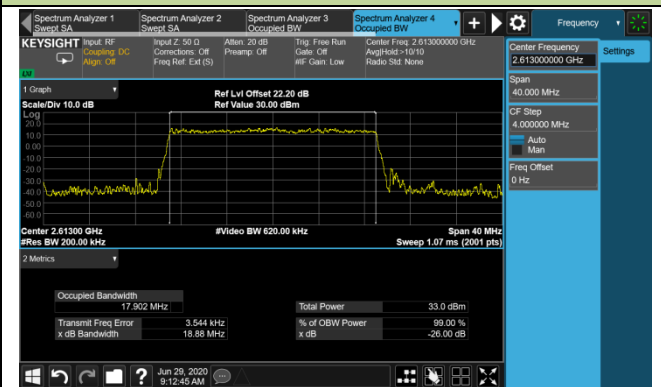


LTE Emission Bandwidth - 16QAM

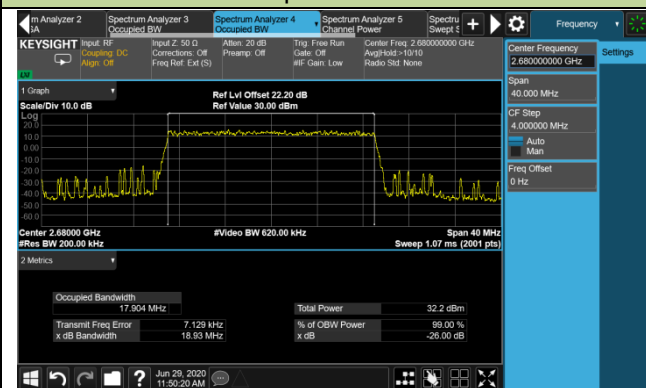
Bottom Channel



Middle Channel

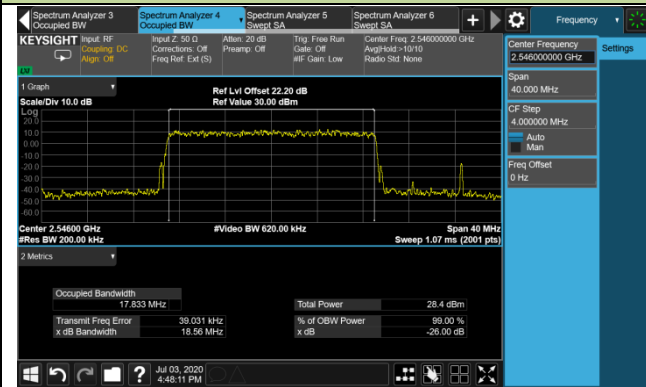


Top Channel

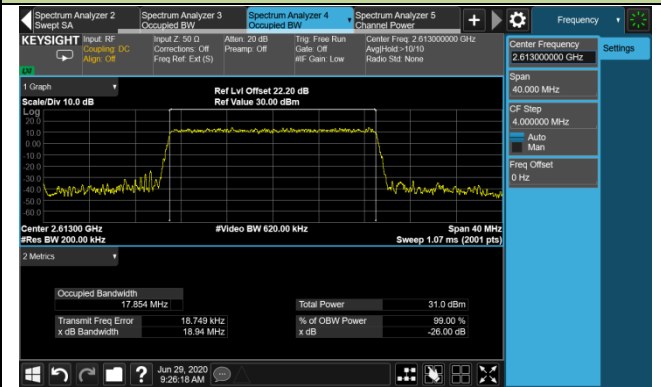


LTE Emission Bandwidth - 64QAM

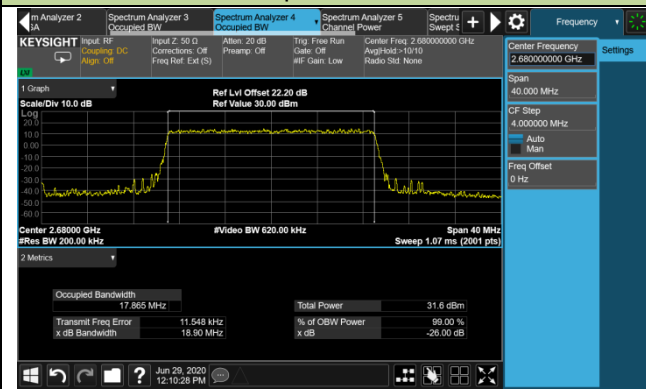
Bottom Channel



Middle Channel

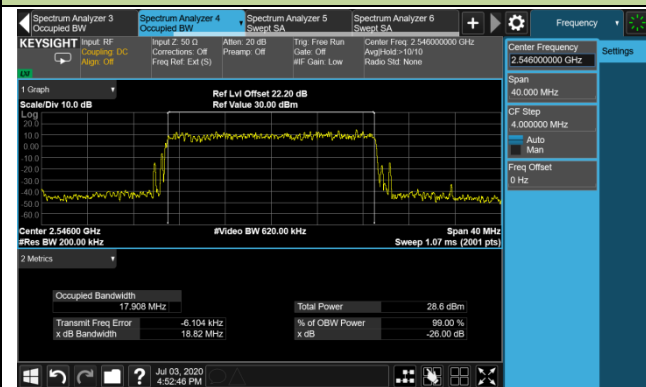


Top Channel

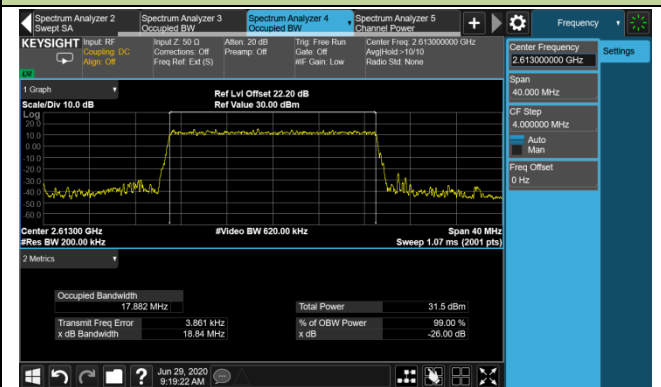


LTE Emission Bandwidth - 256QAM

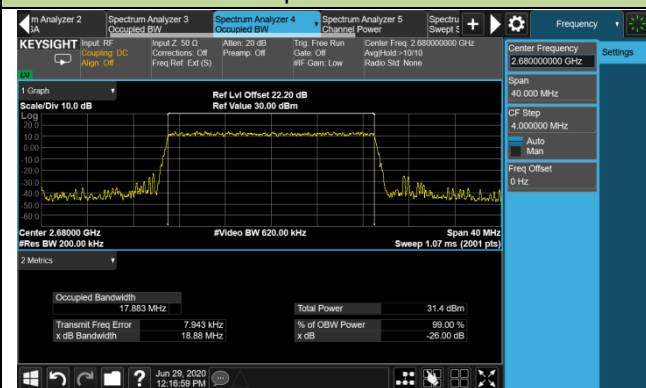
Bottom Channel



Middle Channel



Top Channel

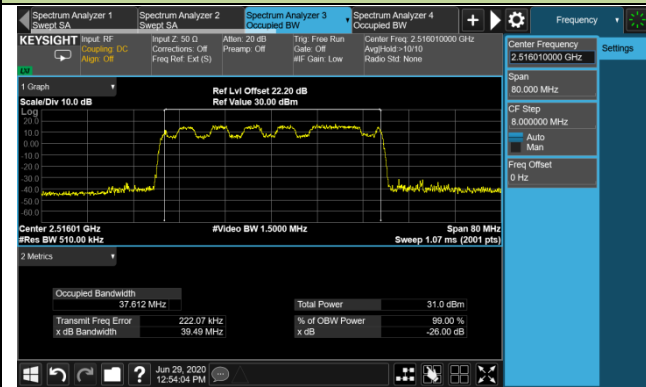


Product	AirScale Indoor Radio ASiR 5G-pRRH	Test Engineer	Kevin Ker
Test Site	SR2	Test Date	2020/06/29
Test Configuration	5G NR 40MHz + LTE 20 + 20MHz		
Test Channel	Bottom Channel: 5G NR 2516.01MHz, LTE 2546 + 2566MHz Middle Channel: 5G NR 2573.01MHz, LTE 2603 + 2623MHz Top Channel: 5G NR 2630.01MHz, LTE 2660 + 2680MHz		

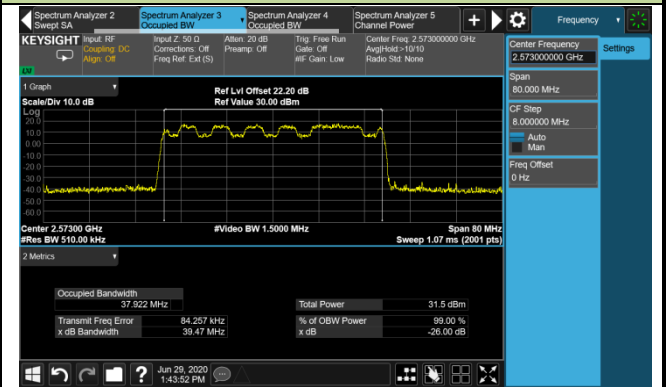
Modulation	Frequency (MHz)	Bandwidth (MHz)	26dB Bandwidth (MHz)		Total 26dB Bandwidth (MHz)	99% Bandwidth (MHz)		Total 99% Bandwidth (MHz)
			5G NR	LTE		5G NR	LTE	
Ant 0 / Ant 0+1 (5G NR) + Ant 3 / Ant 2+3 (LTE)								
QPSK	Bottom	40+40	39.49	39.38	78.87	37.61	37.79	75.40
	Middle	40+40	39.47	39.24	78.71	37.92	37.78	75.70
	Top	40+40	39.73	39.35	79.08	37.86	37.75	75.61
16QAM	Bottom	40+40	39.54	39.38	78.92	37.87	37.74	75.61
	Middle	40+40	39.78	39.26	79.04	37.94	37.60	75.54
	Top	40+40	39.53	39.19	78.72	37.86	37.72	75.58
64QAM	Bottom	40+40	39.60	39.40	79.00	37.81	37.70	75.51
	Middle	40+40	39.77	39.14	78.91	37.90	37.67	75.57
	Top	40+40	39.69	39.44	79.13	37.87	37.64	75.51
256QAM	Bottom	40+40	39.68	39.21	78.89	37.78	37.71	75.49
	Middle	40+40	39.60	39.36	78.96	37.76	37.68	75.44
	Top	40+40	39.58	39.35	78.93	37.78	37.70	75.48

5G NR Emission Bandwidth - QPSK

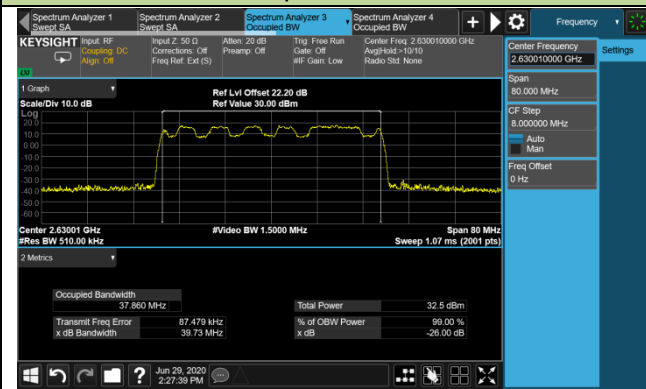
Bottom Channel



Middle Channel

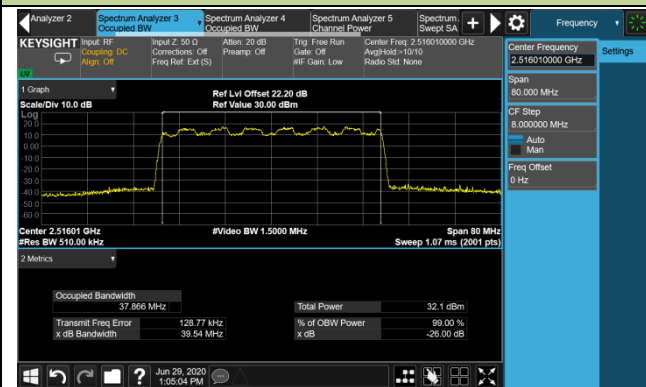


Top Channel

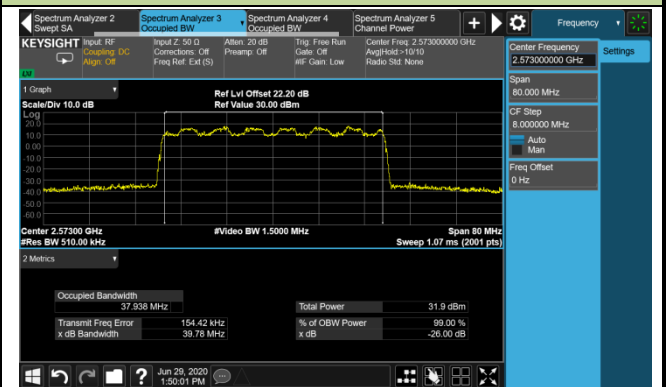


5G NR Emission Bandwidth - 16QAM

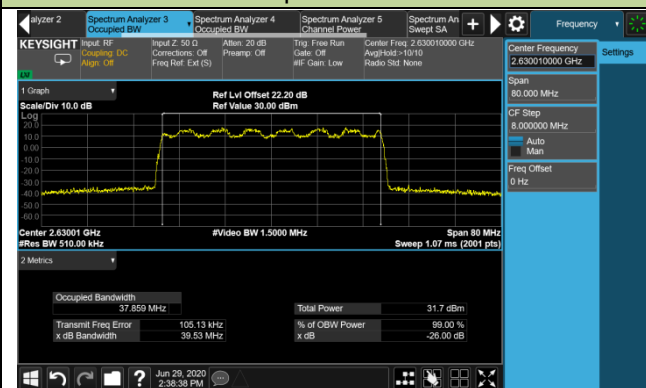
Bottom Channel



Middle Channel

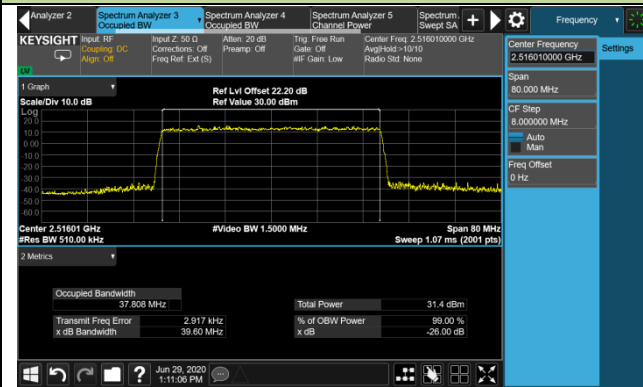


Top Channel

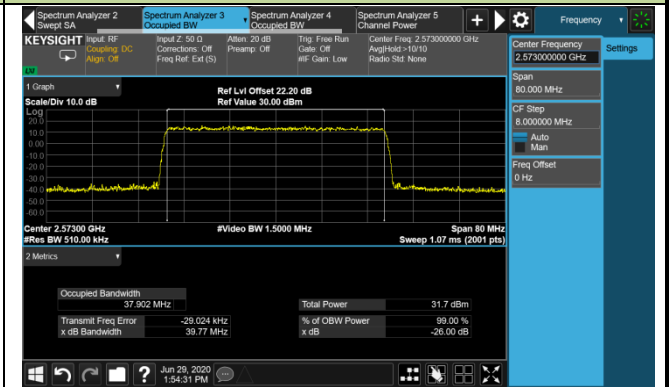


5G NR Emission Bandwidth - 64QAM

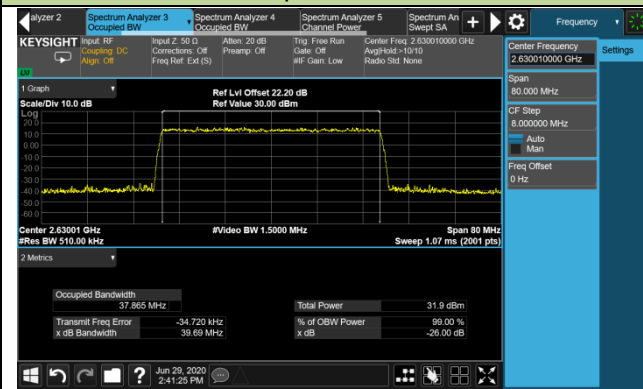
Bottom Channel



Middle Channel

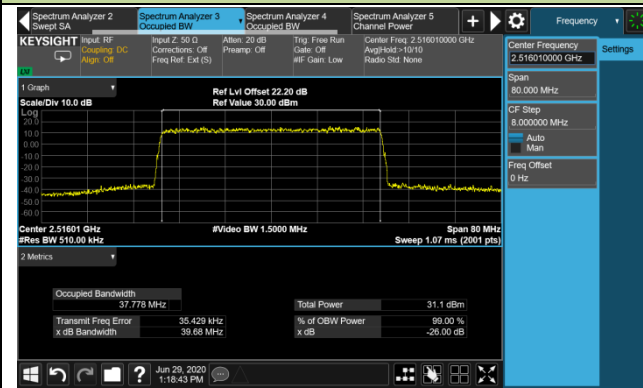


Top Channel

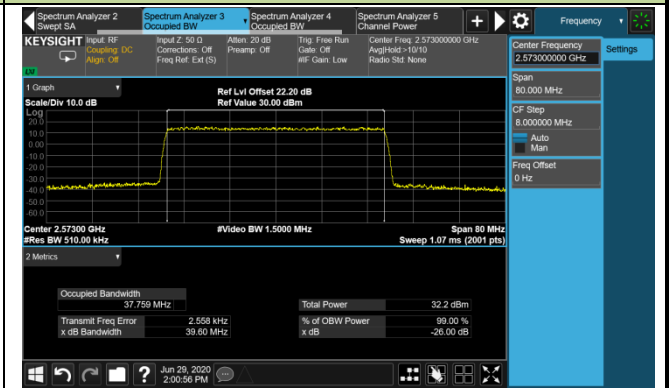


5G NR Emission Bandwidth - 256QAM

Bottom Channel



Middle Channel



Top Channel

