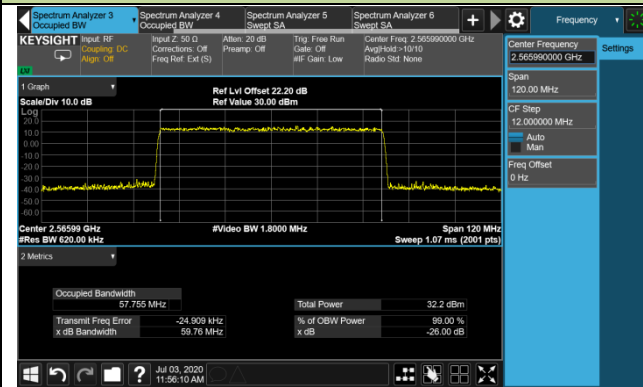
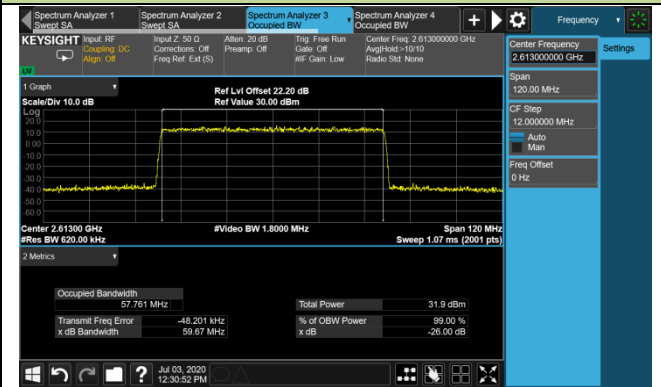


5G NR Emission Bandwidth - 64QAM

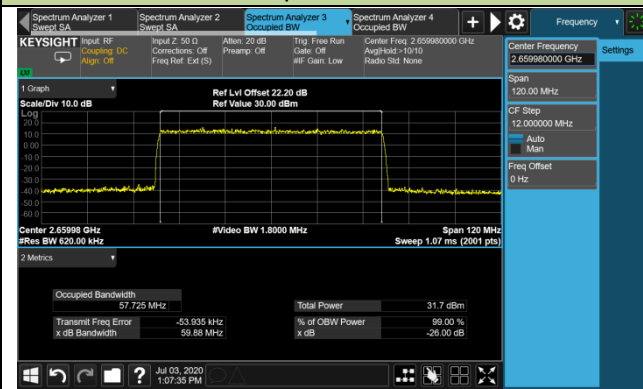
Bottom Channel



Middle Channel

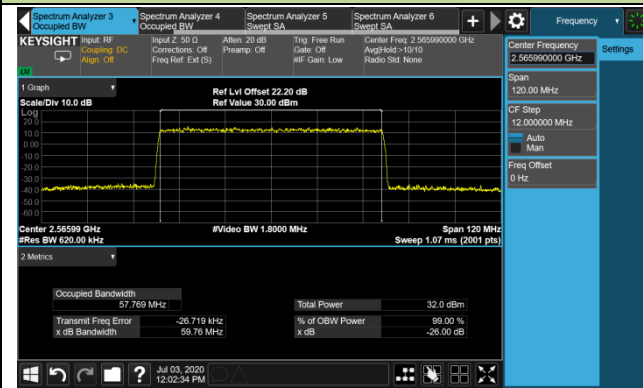


Top Channel

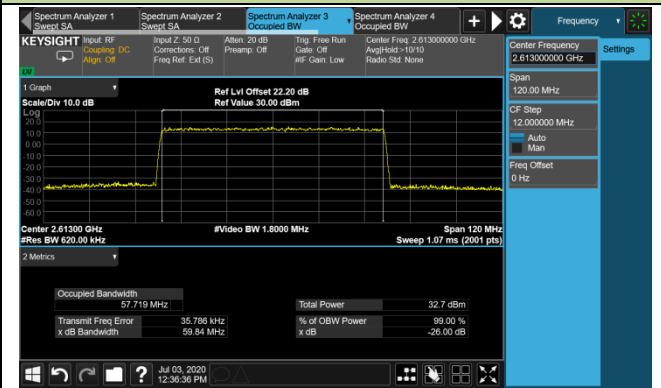


5G NR Emission Bandwidth - 256QAM

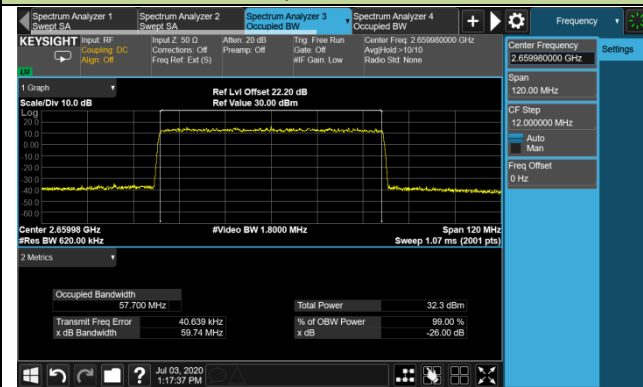
Bottom Channel



Middle Channel



Top Channel

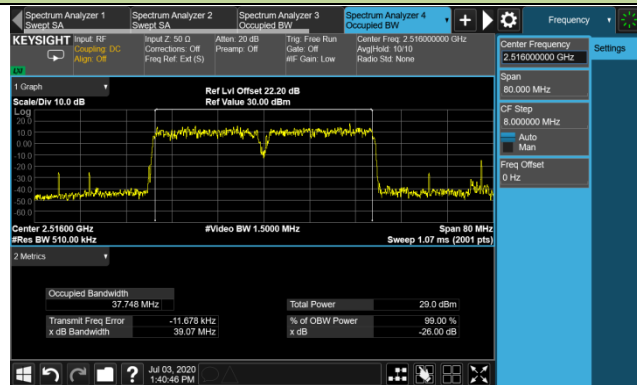


Product	AirScale Indoor Radio ASiR 5G-pRRH	Test Engineer	Kevin Ker
Test Site	SR2	Test Date	2020/07/03
Test Configuration	LTE 20+20MHz + 5G NR 100MHz		
Test Channel	Bottom Channel: LTE 2506 + 2526MHz, 5G NR 2586MHz Middle Channel: LTE 2533 + 2553MHz, 5G NR 2613MHz Top Channel: LTE 2560+ 2580MHz, 5G NR 2640MHz		

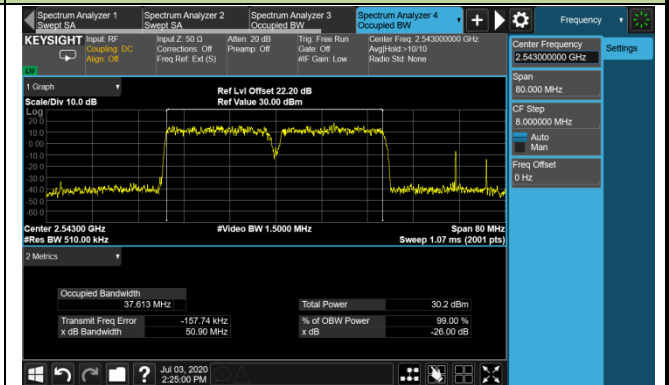
Modulation	Frequency (MHz)	Bandwidth (MHz)	26dB Bandwidth (MHz)		Total 26dB Bandwidth (MHz)	99% Bandwidth (MHz)		Total 99% Bandwidth (MHz)
			LTE	5G NR		LTE	5G NR	
Ant 3 / Ant 2+3 (LTE) + Ant 0 / Ant 0+1 (5G NR)								
QPSK	Bottom	40+100	39.07	100.3	139.37	37.75	97.00	134.75
	Middle	40+100	50.90	100.4	151.30	37.61	96.93	134.54
	Top	40+100	39.37	100.4	139.77	37.72	96.93	134.65
16QAM	Bottom	40+100	49.85	100.5	150.35	37.60	96.96	134.56
	Middle	40+100	39.33	100.4	139.73	37.78	96.87	134.65
	Top	40+100	52.99	100.4	153.39	37.85	96.87	134.72
64QAM	Bottom	40+100	42.26	100.5	142.76	37.83	97.25	135.08
	Middle	40+100	56.51	100.5	157.01	37.72	97.35	135.07
	Top	40+100	45.99	100.5	146.49	37.89	97.17	135.06
256QAM	Bottom	40+100	52.04	100.6	152.64	37.60	97.356	134.96
	Middle	40+100	71.20	100.6	171.80	37.77	97.30	135.07
	Top	40+100	39.42	100.6	140.02	37.71	97.27	134.98

LTE Emission Bandwidth - QPSK

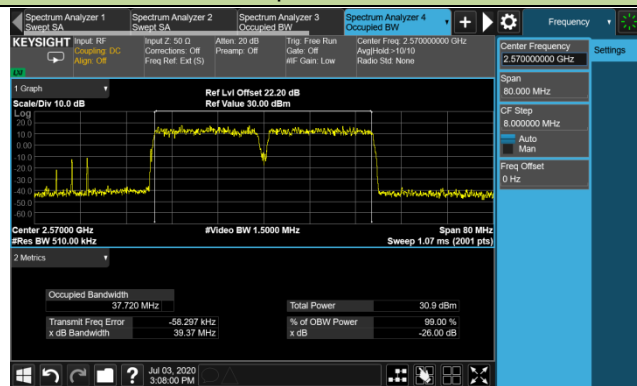
Bottom Channel



Middle Channel

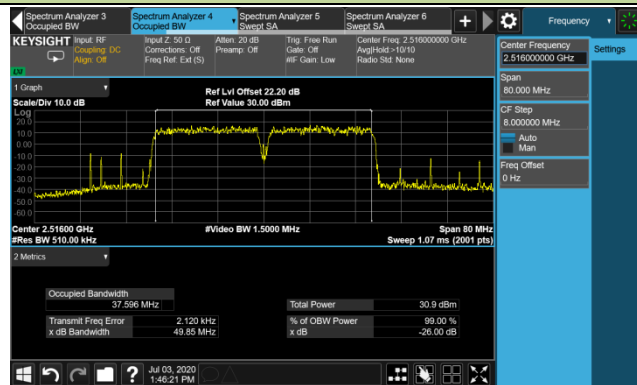


Top Channel

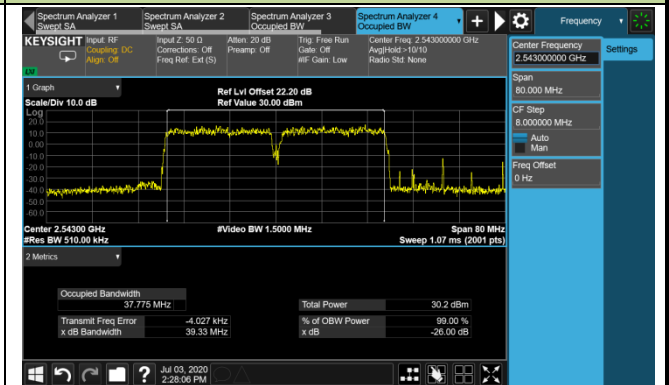


LTE Emission Bandwidth - 16QAM

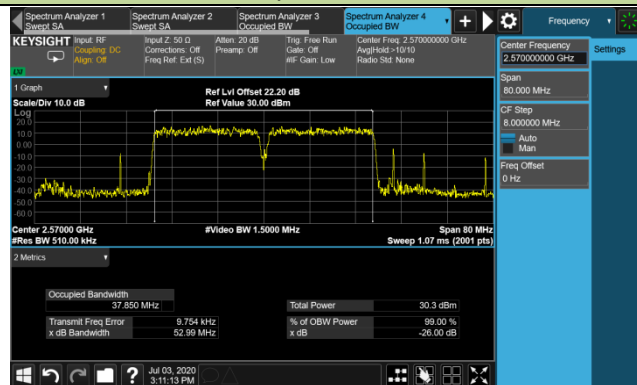
Bottom Channel



Middle Channel

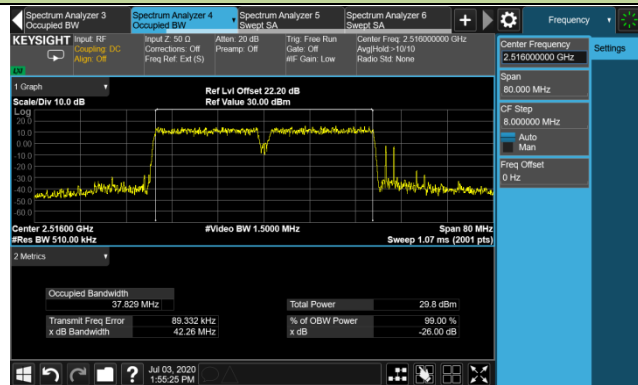


Top Channel

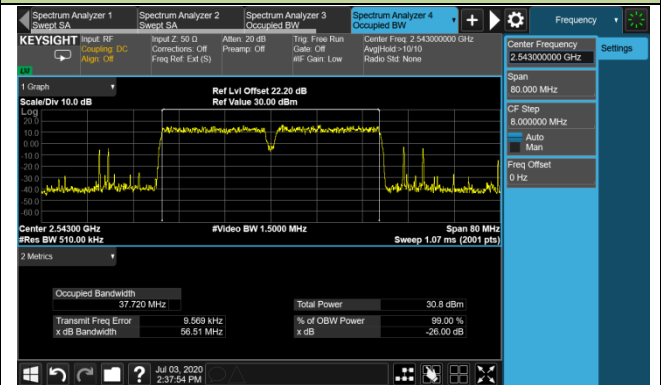


LTE Emission Bandwidth - 64QAM

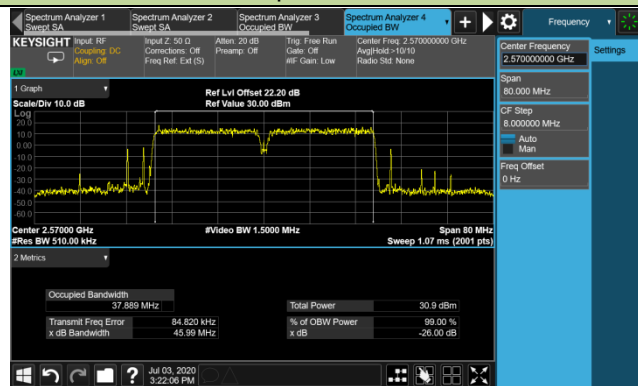
Bottom Channel



Middle Channel

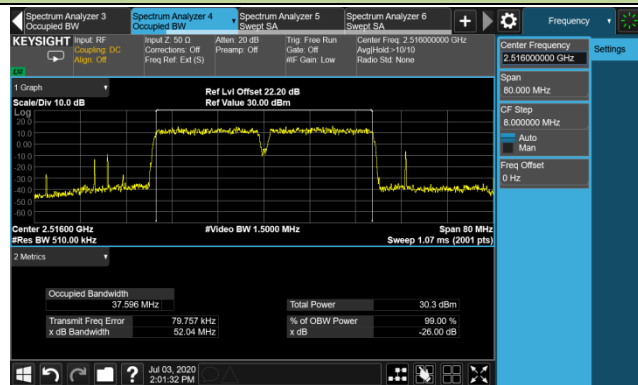


Top Channel

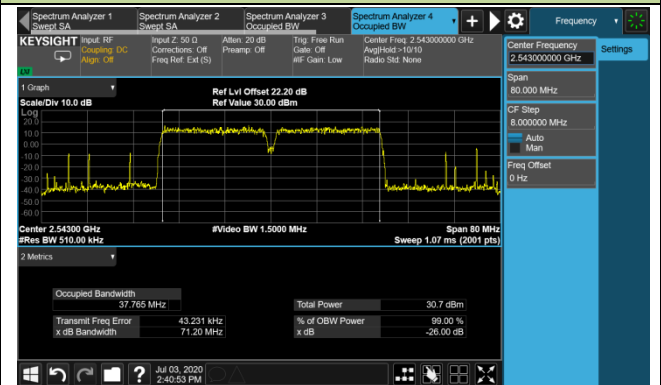


LTE Emission Bandwidth - 256QAM

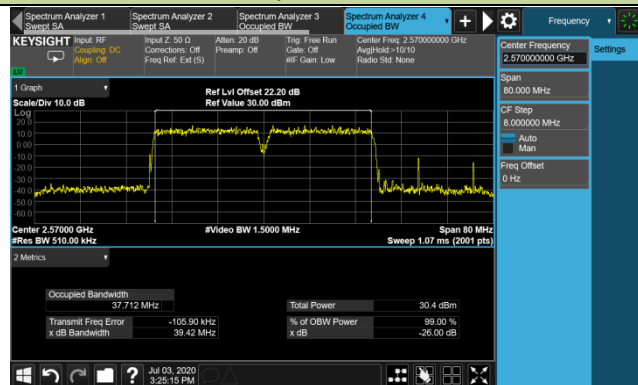
Bottom Channel



Middle Channel

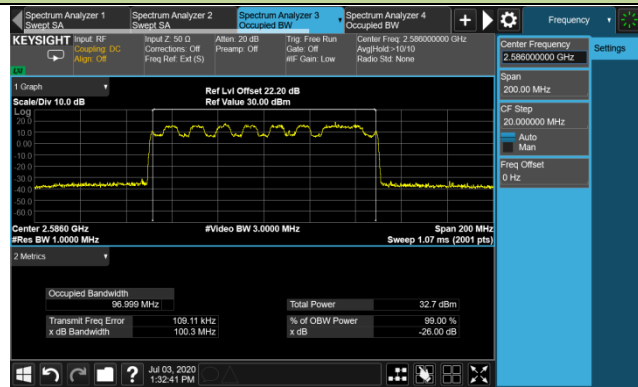


Top Channel

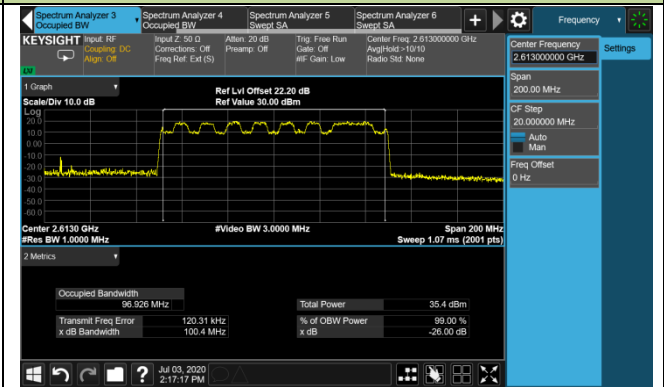


5G NR Emission Bandwidth - QPSK

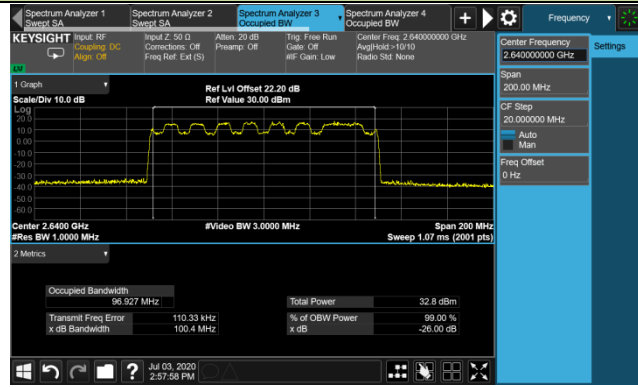
Bottom Channel



Middle Channel

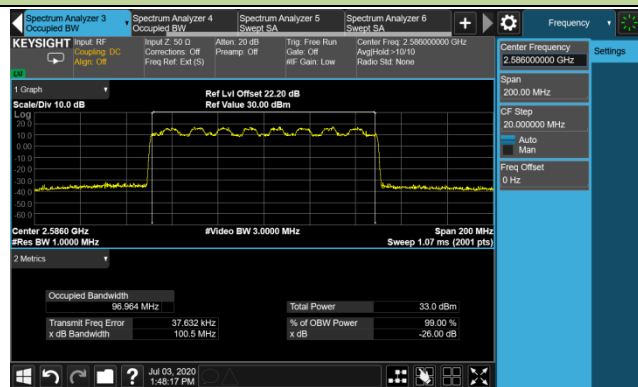


Top Channel

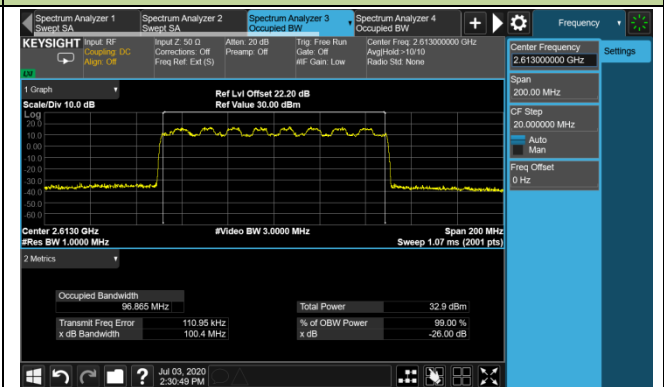


5G NR Emission Bandwidth - 16QAM

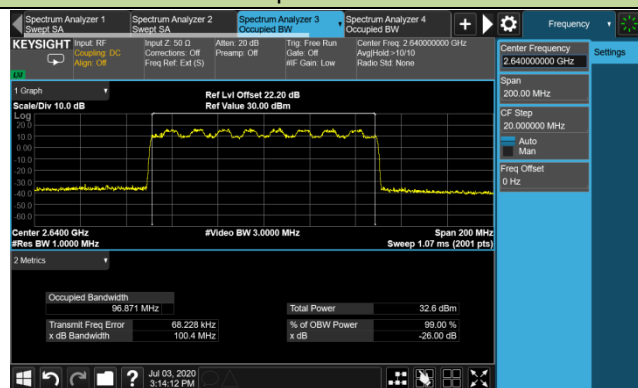
Bottom Channel



Middle Channel

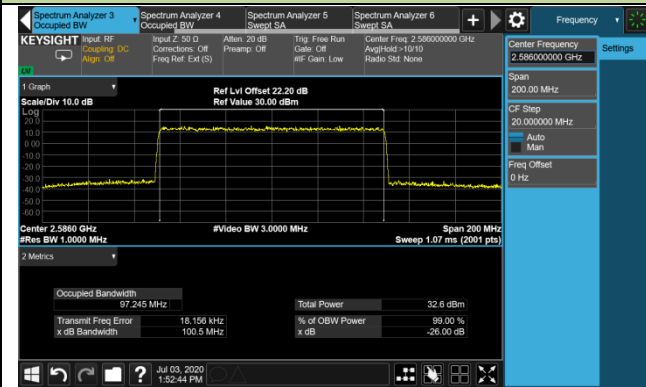


Top Channel

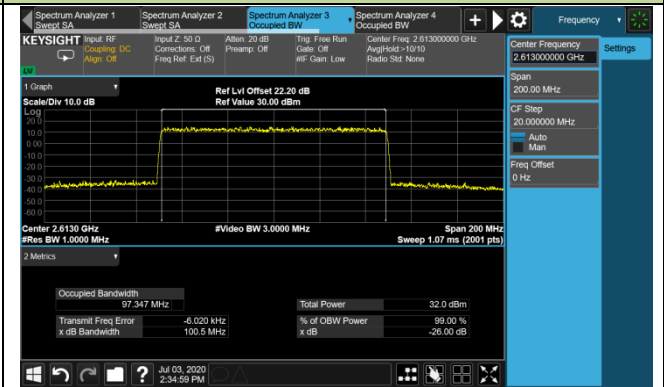


5G NR Emission Bandwidth - 64QAM

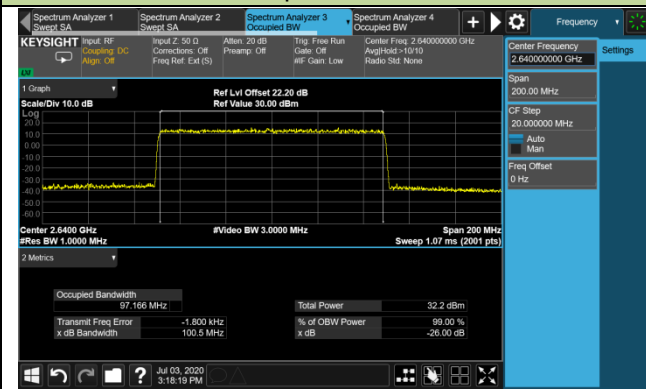
Bottom Channel



Middle Channel

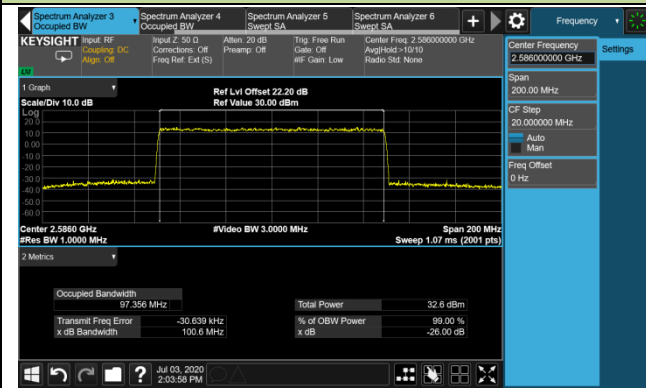


Top Channel

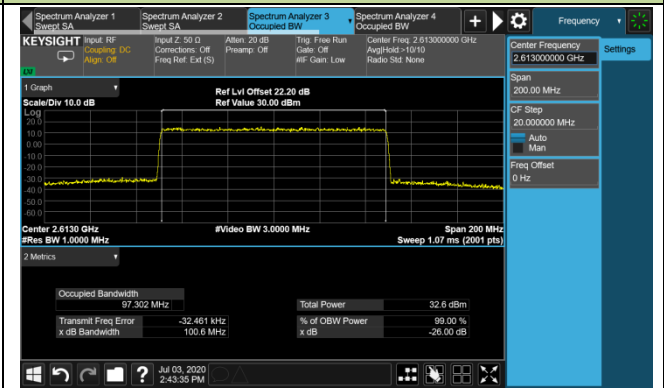


5G NR Emission Bandwidth - 256QAM

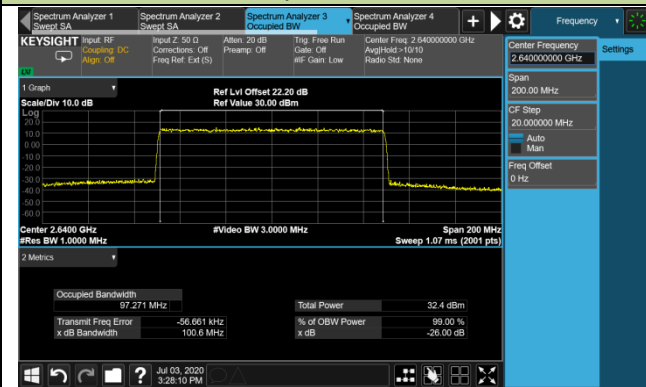
Bottom Channel



Middle Channel



Top Channel

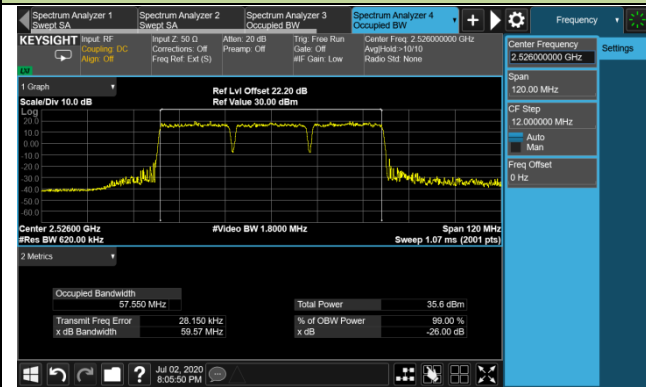


Product	AirScale Indoor Radio ASiR 5G-pRRH	Test Engineer	Kevin Ker
Test Site	SR2	Test Date	2020/07/03
Test Configuration	LTE 20+20+20MHz + 5G NR 40MHz		
Test Channel	Bottom Channel: LTE 2502 + 2526 + 2546MHz, 5G NR 2575.98MHz Middle Channel: LTE 2553 + 2573 + 2593MHz, 5G NR 2622.99MHz Top Channel: LTE 2600 + 2620+ 2640MHz, 5G NR 2670MHz		

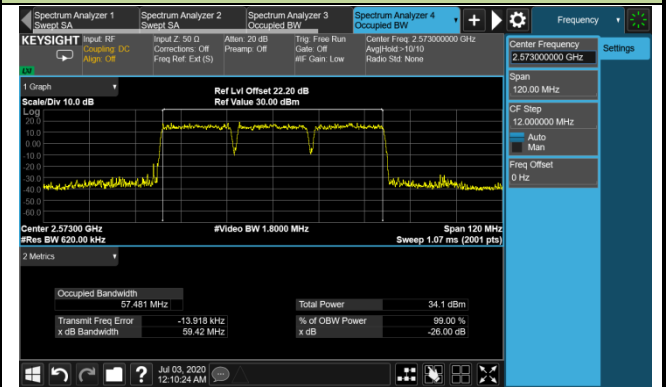
Modulation	Frequency (MHz)	Bandwidth (MHz)	26dB Bandwidth (MHz)		Total 26dB Bandwidth (MHz)	99% Bandwidth (MHz)		Total 99% Bandwidth (MHz)
			LTE	5G NR		Total	5G NR	
Ant 3 / Ant 2+3 (LTE) + Ant 0 / Ant 0+1 (5G NR)								
QPSK	Bottom	60+40	59.57	39.59	99.16	57.55	37.94	95.49
	Middle	60+40	59.42	39.40	98.82	57.48	37.81	95.29
	Top	60+40	59.30	39.73	99.03	57.55	37.90	95.45
16QAM	Bottom	60+40	59.63	39.76	99.39	57.49	37.97	95.46
	Middle	60+40	59.36	39.75	99.11	57.47	37.94	95.41
	Top	60+40	59.23	39.61	98.84	57.44	37.96	95.40
64QAM	Bottom	60+40	59.59	39.51	99.10	57.47	37.81	95.28
	Middle	60+40	59.66	39.72	99.38	57.53	37.89	95.42
	Top	60+40	59.50	39.66	99.16	57.59	37.85	95.44
256QAM	Bottom	60+40	59.51	39.55	99.06	57.48	37.82	95.30
	Middle	60+40	59.54	39.49	99.03	57.52	37.85	95.37
	Top	60+40	59.51	39.62	99.13	57.54	37.79	95.33

LTE Emission Bandwidth - QPSK

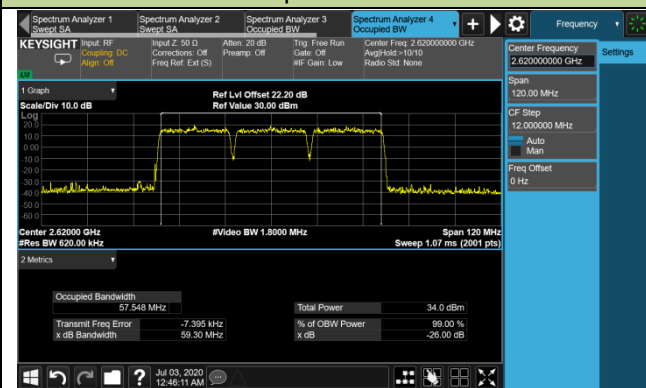
Bottom Channel



Middle Channel

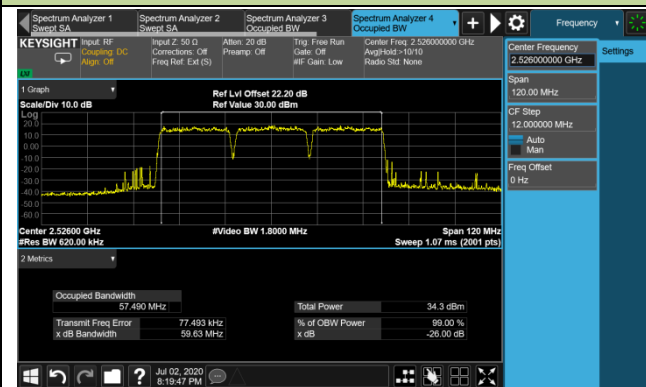


Top Channel

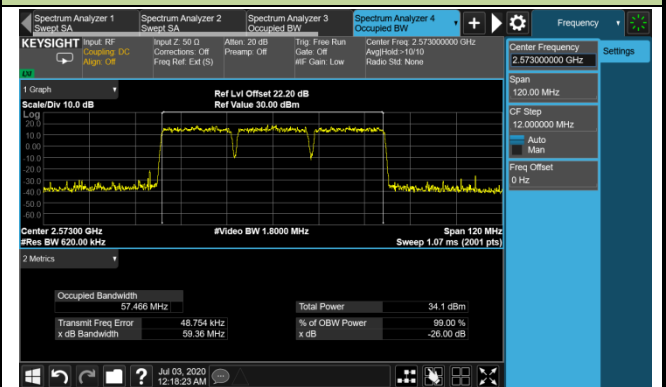


LTE Emission Bandwidth - 16QAM

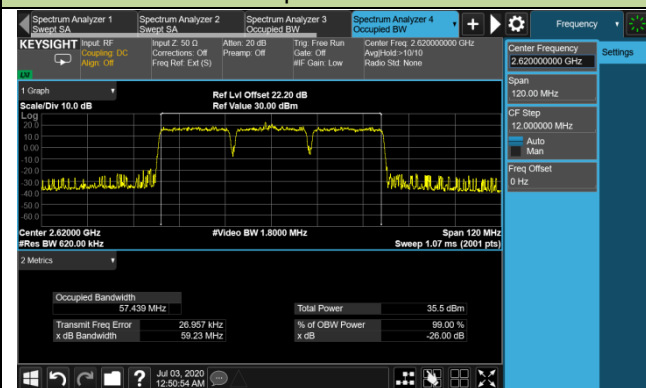
Bottom Channel



Middle Channel

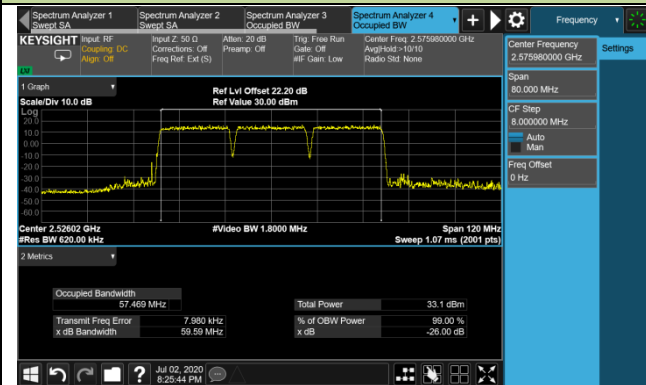


Top Channel

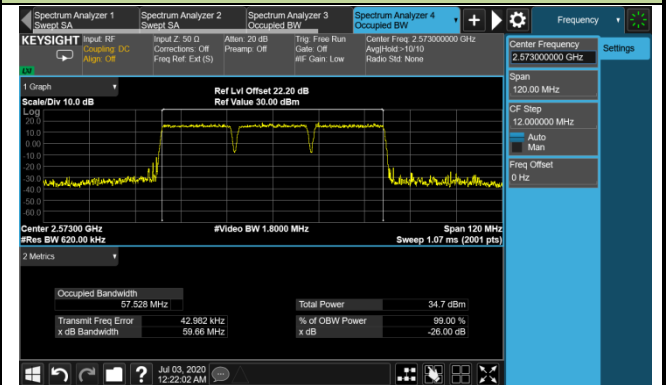


LTE Emission Bandwidth - 64QAM

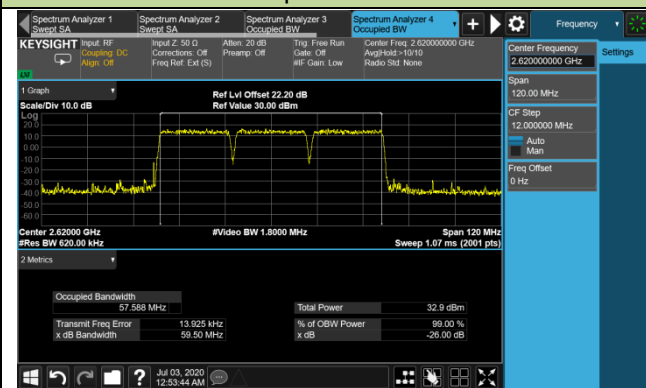
Bottom Channel



Middle Channel

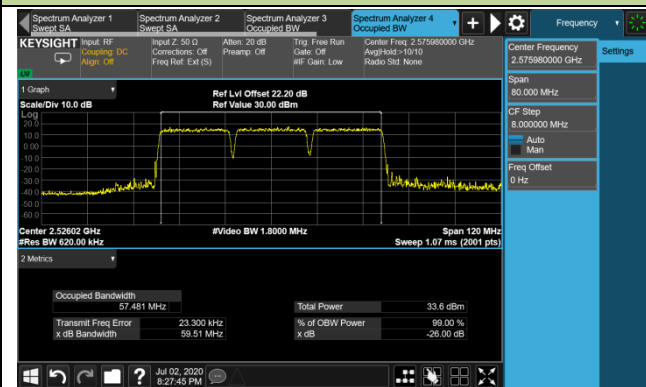


Top Channel

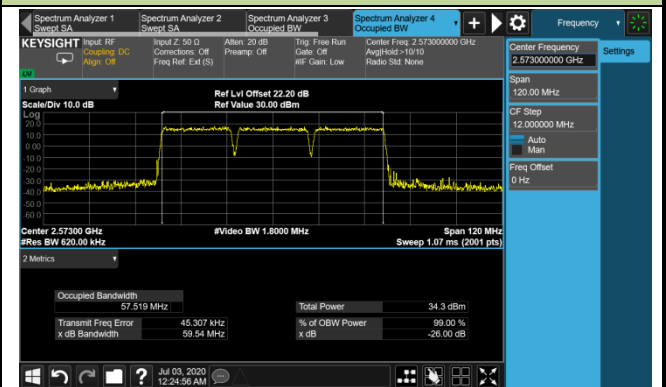


LTE Emission Bandwidth - 256QAM

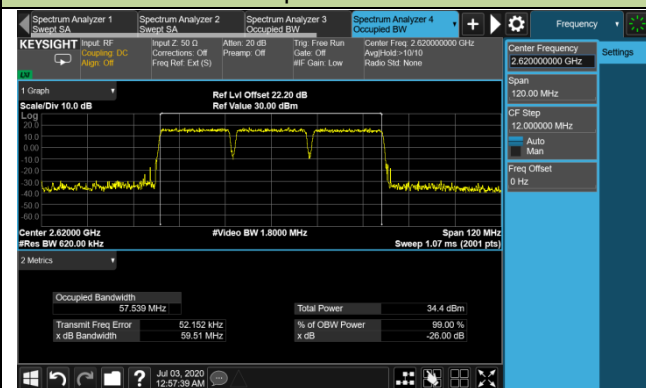
Bottom Channel



Middle Channel

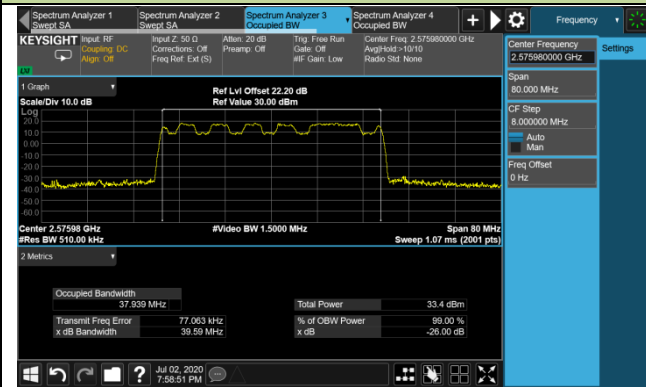


Top Channel

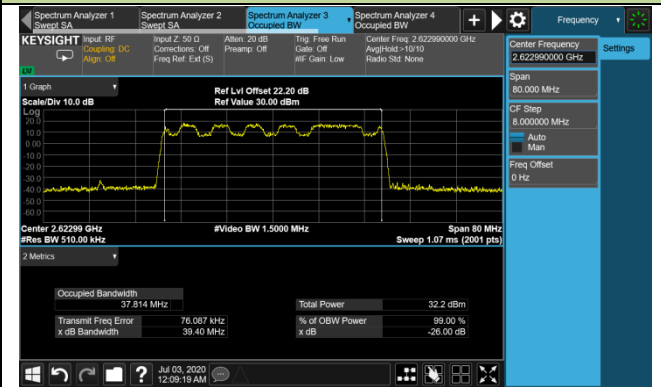


5G NR Emission Bandwidth - QPSK

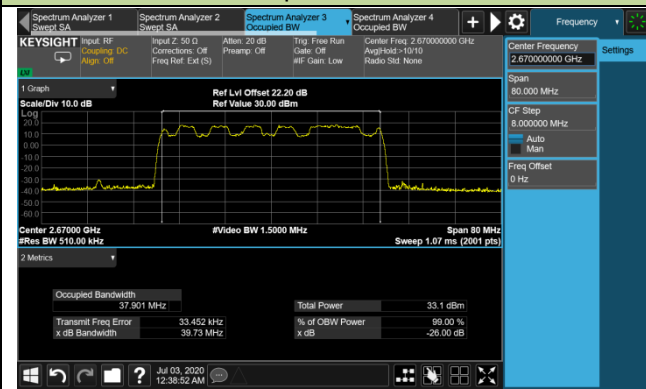
Bottom Channel



Middle Channel

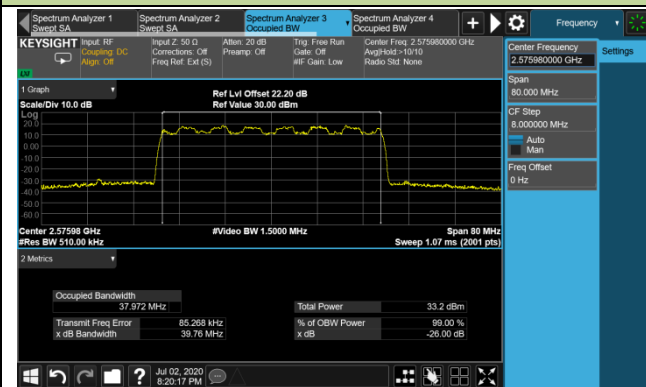


Top Channel

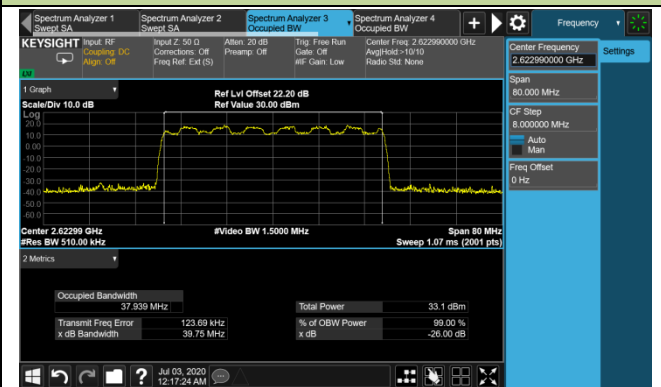


5G NR Emission Bandwidth - 16QAM

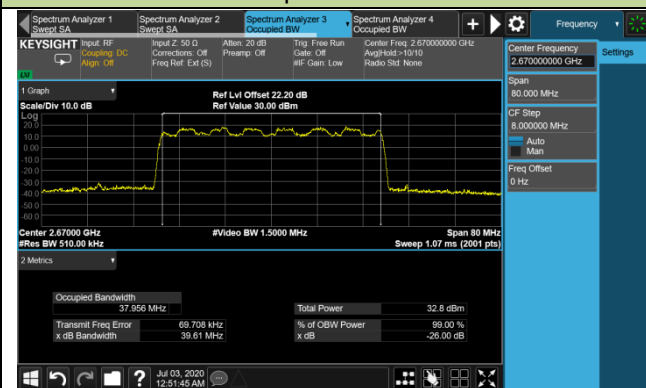
Bottom Channel



Middle Channel

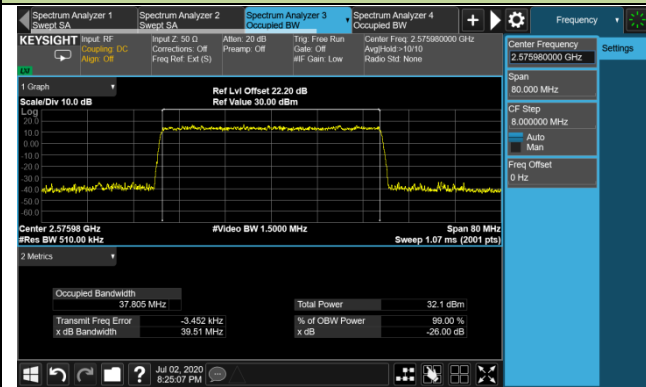


Top Channel

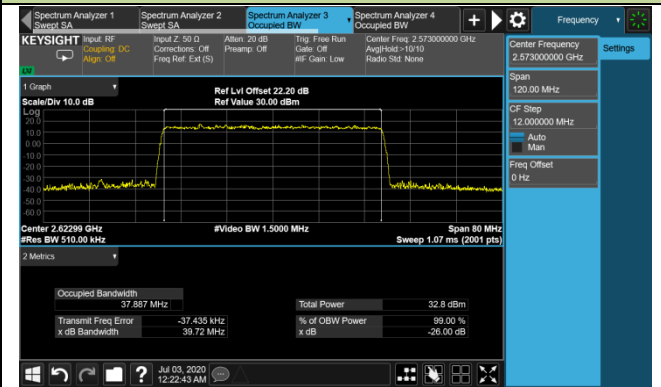


5G NR Emission Bandwidth - 64QAM

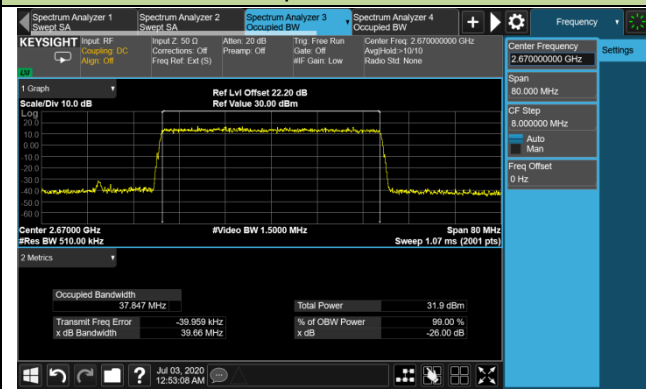
Bottom Channel



Middle Channel

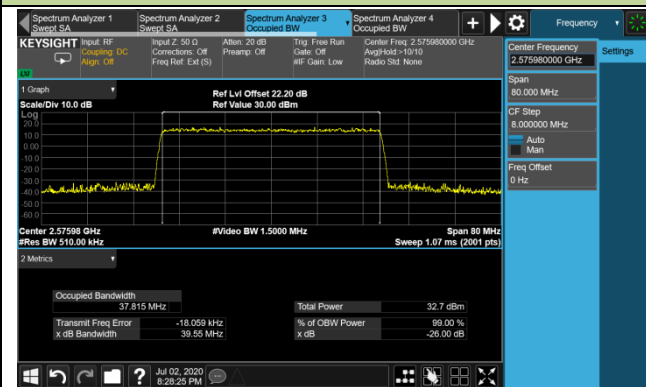


Top Channel

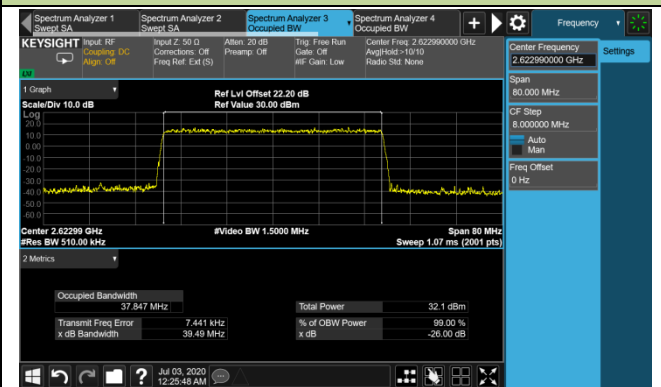


5G NR Emission Bandwidth - 256QAM

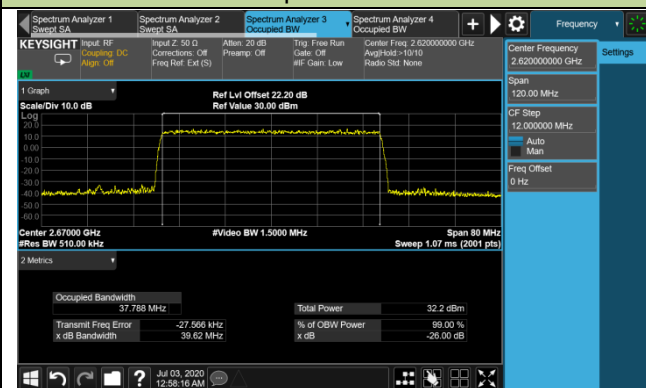
Bottom Channel



Middle Channel



Top Channel

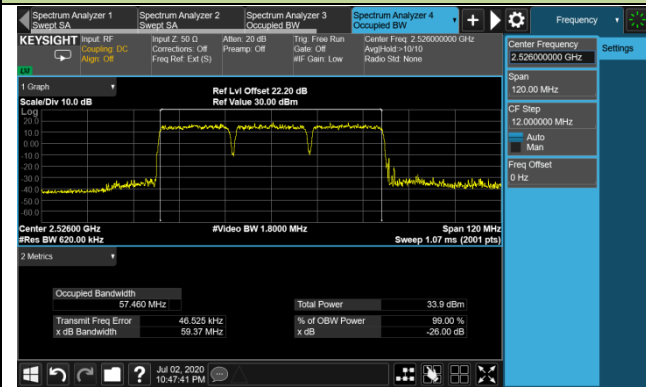


Product	AirScale Indoor Radio ASiR 5G-pRRH	Test Engineer	Kevin Ker
Test Site	SR2	Test Date	2020/07/02
Test Configuration	LTE 20+20+20MHz + 5G NR 60MHz		
Test Channel	Bottom Channel: LTE 2506 + 2526 + 2546MHz, 5G NR 2586MHz Middle Channel: LTE 2543 + 2563 + 2583MHz, 5G NR 2622.99MHz Top Channel: LTE 2580 + 2600+ 2620MHz, 5G NR 2659.98MHz		

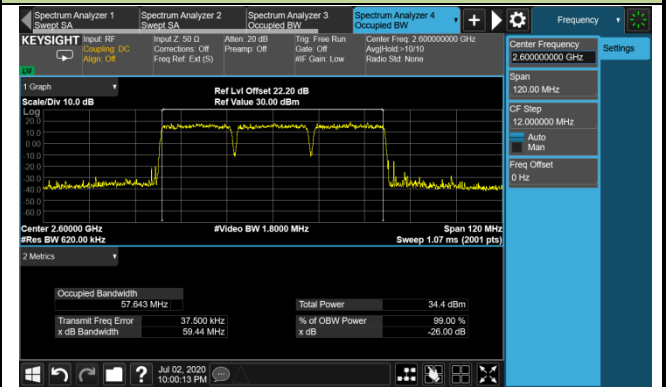
Modulation	Frequency (MHz)	Bandwidth (MHz)	26dB Bandwidth (MHz)		Total 26dB Bandwidth (MHz)	99% Bandwidth (MHz)		Total 99% Bandwidth (MHz)
			LTE	5G NR		LTE	5G NR	
Ant 3 / Ant 2+3 (LTE) + Ant 0 / Ant 0+1 (5G NR)								
QPSK	Bottom	60+60	59.37	59.59	118.96	57.46	57.75	115.21
	Middle	60+60	59.55	59.56	119.11	57.68	57.80	115.48
	Top	60+60	59.44	59.56	119.00	57.64	57.82	115.46
16QAM	Bottom	60+60	59.57	59.49	119.06	57.39	57.74	115.13
	Middle	60+60	59.37	59.65	119.02	57.43	57.84	115.27
	Top	60+60	59.44	59.77	119.21	57.58	57.81	115.39
64QAM	Bottom	60+60	59.49	59.62	119.11	57.47	57.81	115.28
	Middle	60+60	59.78	59.73	119.51	57.49	57.83	115.32
	Top	60+60	59.49	59.77	119.26	57.51	57.85	115.36
256QAM	Bottom	60+60	59.45	59.81	119.26	57.45	57.67	115.12
	Middle	60+60	59.52	59.65	119.17	57.52	57.77	115.29
	Top	60+60	59.56	59.70	119.26	57.53	57.70	115.23

LTE Emission Bandwidth - QPSK

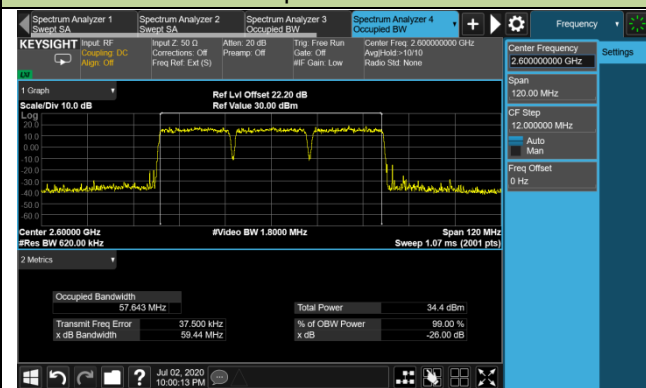
Bottom Channel



Middle Channel

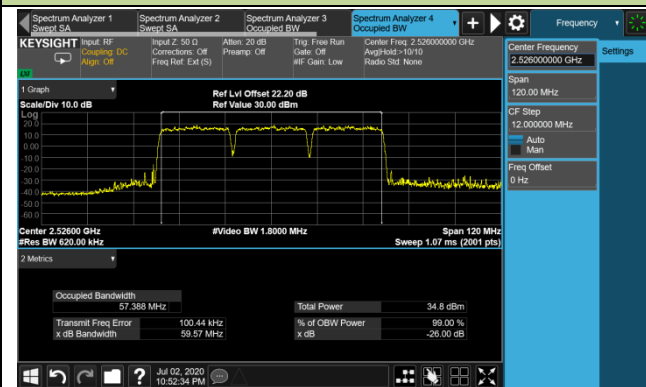


Top Channel

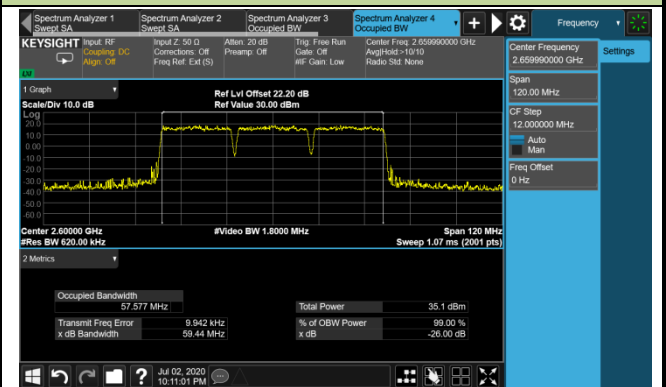


LTE Emission Bandwidth - 16QAM

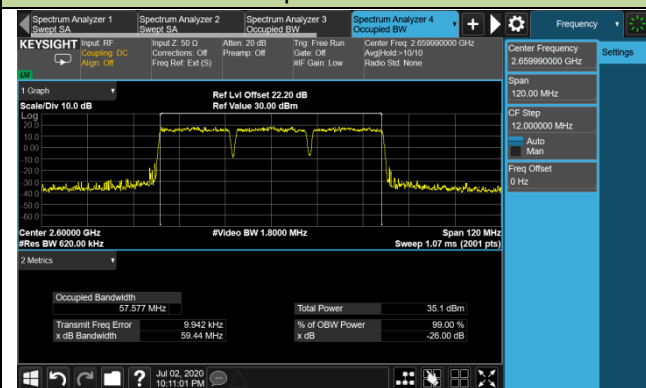
Bottom Channel



Middle Channel

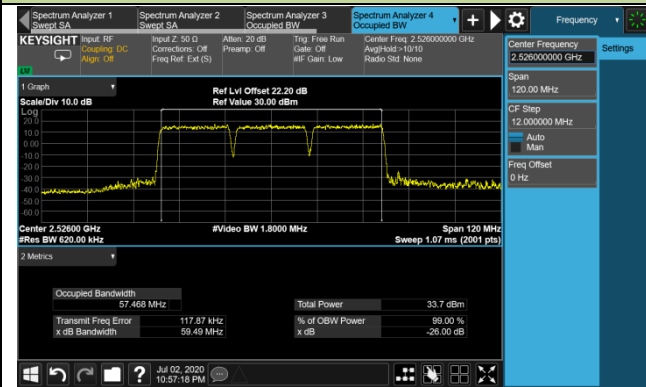


Top Channel

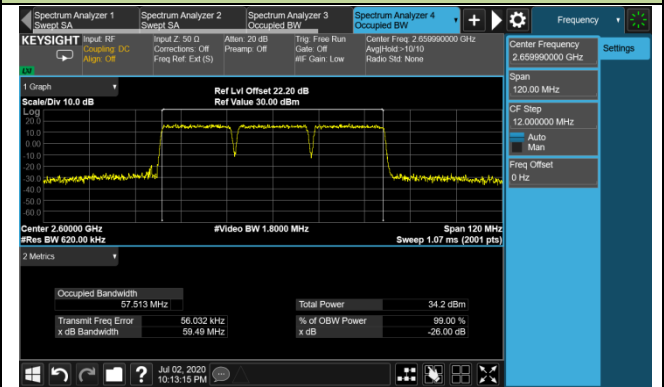


LTE Emission Bandwidth - 64QAM

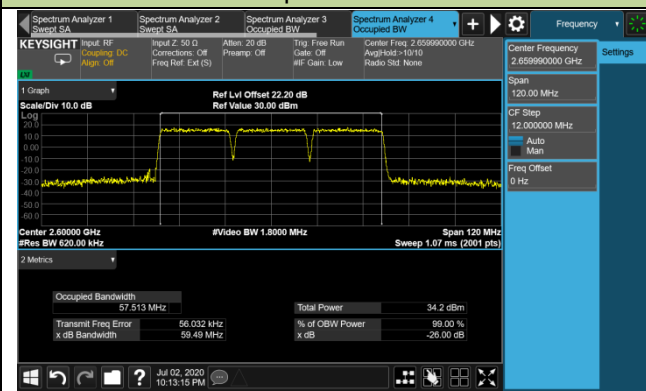
Bottom Channel



Middle Channel

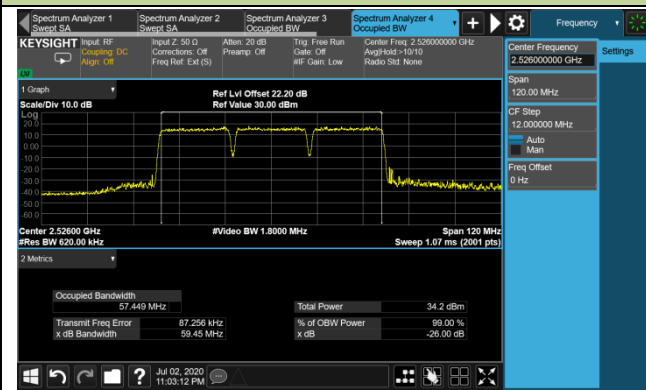


Top Channel

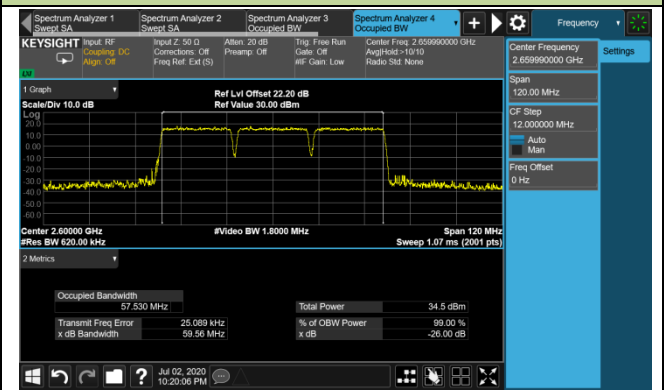


LTE Emission Bandwidth - 256QAM

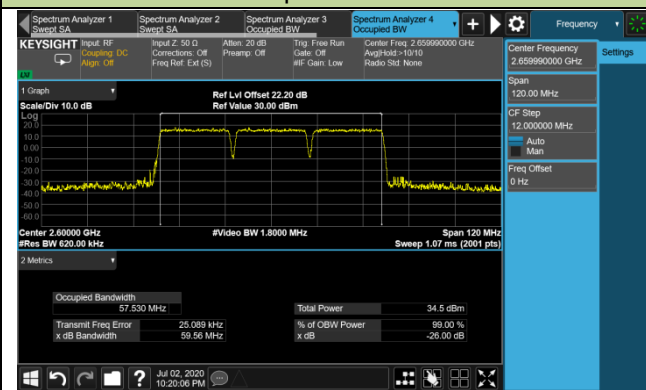
Bottom Channel



Middle Channel

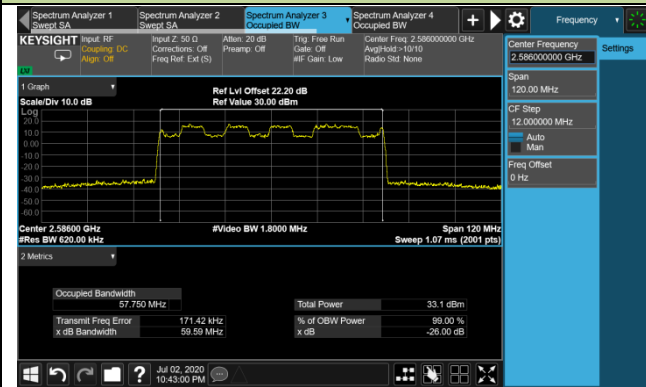


Top Channel

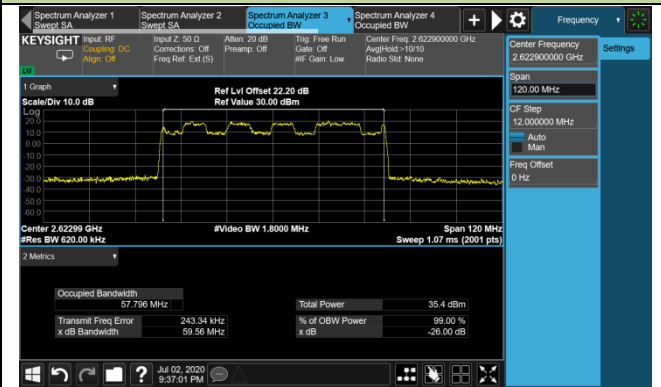


5G NR Emission Bandwidth - QPSK

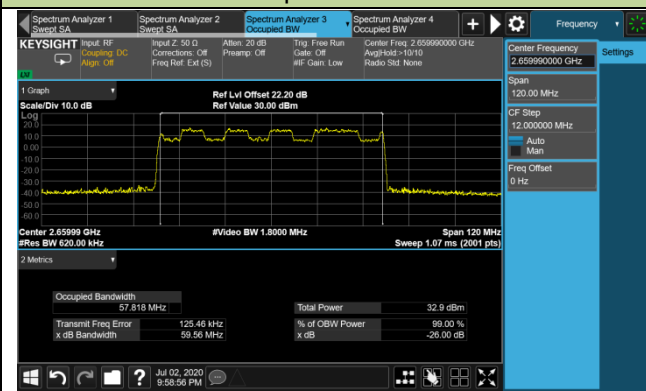
Bottom Channel



Middle Channel

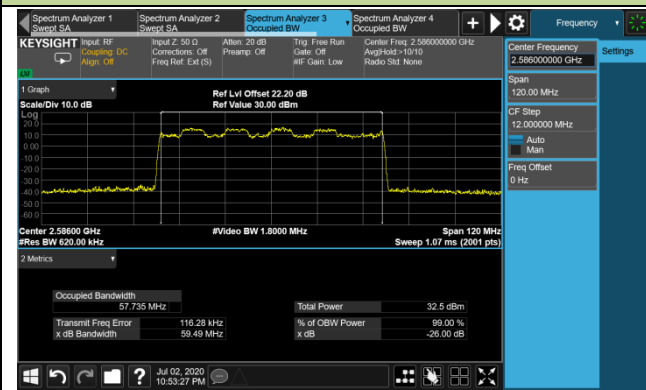


Top Channel

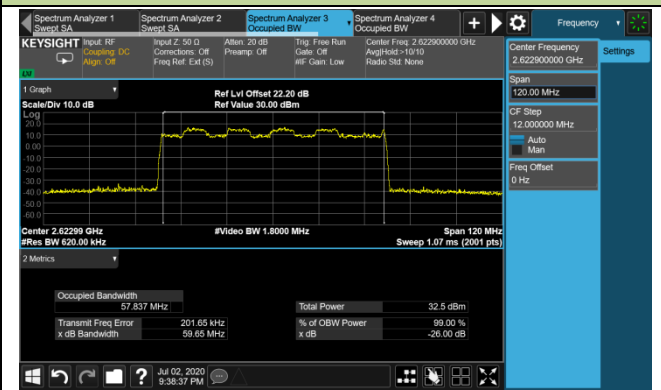


5G NR Emission Bandwidth - 16QAM

Bottom Channel



Middle Channel



Top Channel

