

CBRS LTE(20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C)[5C]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	3 600.00	97.246
		Middle	3 625.00	97.347
		High	3 650.00	97.505
	16QAM	Low	3 600.00	97.466
		Middle	3 625.00	97.628
		High	3 650.00	97.731
	64QAM	Low	3 600.00	97.547
		Middle	3 625.00	97.569
		High	3 650.00	97.552
	256QAM	Low	3 600.00	97.589
		Middle	3 625.00	97.432
		High	3 650.00	97.458
	1024QAM	Low	3 600.00	97.417
		Middle	3 625.00	97.768
		High	3 650.00	97.559
1	QPSK	Low	3 600.00	97.551
		Middle	3 625.00	97.466
		High	3 650.00	97.498
	16QAM	Low	3 600.00	97.696
		Middle	3 625.00	97.687
		High	3 650.00	97.626
	64QAM	Low	3 600.00	97.495
		Middle	3 625.00	97.514
		High	3 650.00	97.706
	256QAM	Low	3 600.00	97.318
		Middle	3 625.00	97.540
		High	3 650.00	97.385
	1024QAM	Low	3 600.00	97.285
		Middle	3 625.00	97.490
		High	3 650.00	97.504

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS NR(10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C)[5C]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	3 575.00	48.400
		Middle	3 625.00	48.400
		High	3 675.00	48.493
	16QAM	Low	3 575.00	48.328
		Middle	3 625.00	48.355
		High	3 675.00	48.482
	64QAM	Low	3 575.00	48.411
		Middle	3 625.00	48.386
		High	3 675.00	48.425
	256QAM	Low	3 575.00	48.378
		Middle	3 625.00	48.391
		High	3 675.00	48.452
1	QPSK	Low	3 575.00	48.462
		Middle	3 625.00	48.310
		High	3 675.00	48.419
	16QAM	Low	3 575.00	48.363
		Middle	3 625.00	48.399
		High	3 675.00	48.416
	64QAM	Low	3 575.00	48.459
		Middle	3 625.00	48.330
		High	3 675.00	48.381
	256QAM	Low	3 575.00	48.388
		Middle	3 625.00	48.332
		High	3 675.00	48.517

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS NR(40 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C)[5C]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	3 590.00	78.037
		Middle	3 625.00	77.831
		High	3 660.00	77.980
	16QAM	Low	3 590.00	78.399
		Middle	3 625.00	77.876
		High	3 660.00	77.963
	64QAM	Low	3 590.00	78.055
		Middle	3 625.00	77.922
		High	3 660.00	78.085
	256QAM	Low	3 590.00	78.039
		Middle	3 625.00	77.836
		High	3 660.00	77.903
1	QPSK	Low	3 590.00	78.216
		Middle	3 625.00	78.124
		High	3 660.00	77.745
	16QAM	Low	3 590.00	78.151
		Middle	3 625.00	78.341
		High	3 660.00	77.664
	64QAM	Low	3 590.00	78.158
		Middle	3 625.00	78.265
		High	3 660.00	77.741
	256QAM	Low	3 590.00	78.016
		Middle	3 625.00	78.213
		High	3 660.00	77.547

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS NR(40 MHz 1C + 30 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C)[5C]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	3 600.00	97.955
		Middle	3 625.00	97.479
		High	3 650.00	97.742
	16QAM	Low	3 600.00	97.898
		Middle	3 625.00	97.529
		High	3 650.00	97.885
	64QAM	Low	3 600.00	97.984
		Middle	3 625.00	97.560
		High	3 650.00	97.573
	256QAM	Low	3 600.00	97.927
		Middle	3 625.00	97.554
		High	3 650.00	97.665
1	QPSK	Low	3 600.00	98.207
		Middle	3 625.00	97.982
		High	3 650.00	97.654
	16QAM	Low	3 600.00	98.293
		Middle	3 625.00	98.009
		High	3 650.00	97.826
	64QAM	Low	3 600.00	98.148
		Middle	3 625.00	98.027
		High	3 650.00	97.614
	256QAM	Low	3 600.00	98.237
		Middle	3 625.00	98.073
		High	3 650.00	97.712

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS NR(60 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C) [5C]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	3 600.00	97.977
		Middle	3 625.00	97.991
		High	3 650.00	97.700
	16QAM	Low	3 600.00	97.877
		Middle	3 625.00	98.030
		High	3 650.00	97.834
	64QAM	Low	3 600.00	98.059
		Middle	3 625.00	97.958
		High	3 650.00	97.742
	256QAM	Low	3 600.00	98.030
		Middle	3 625.00	97.984
		High	3 650.00	97.813
1	QPSK	Low	3 600.00	98.051
		Middle	3 625.00	98.025
		High	3 650.00	97.762
	16QAM	Low	3 600.00	97.889
		Middle	3 625.00	97.919
		High	3 650.00	97.778
	64QAM	Low	3 600.00	97.911
		Middle	3 625.00	97.968
		High	3 650.00	97.729
	256QAM	Low	3 600.00	97.921
		Middle	3 625.00	97.971
		High	3 650.00	97.857

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS NR 60 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 10 MHz 1C [5C]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	3 600.00	98.031
		Middle	3 625.00	97.791
		High	3 650.00	97.839
	16QAM	Low	3 600.00	97.982
		Middle	3 625.00	98.091
		High	3 650.00	97.831
	64QAM	Low	3 600.00	97.943
		Middle	3 625.00	97.868
		High	3 650.00	97.620
	256QAM	Low	3 600.00	97.895
		Middle	3 625.00	97.700
		High	3 650.00	97.787
1	QPSK	Low	3 600.00	97.917
		Middle	3 625.00	97.973
		High	3 650.00	97.797
	16QAM	Low	3 600.00	97.847
		Middle	3 625.00	97.831
		High	3 650.00	97.869
	64QAM	Low	3 600.00	97.923
		Middle	3 625.00	97.910
		High	3 650.00	97.779
	256QAM	Low	3 600.00	98.048
		Middle	3 625.00	97.927
		High	3 650.00	97.941

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C [5C]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	3 570.00	38.662
		Middle	3 625.00	38.655
		High	3 680.00	38.615
	16QAM	Low	3 570.00	38.650
		Middle	3 625.00	38.590
		High	3 680.00	38.638
	64QAM	Low	3 570.00	38.661
		Middle	3 625.00	38.662
		High	3 680.00	38.664
	256QAM	Low	3 570.00	38.633
		Middle	3 625.00	38.677
		High	3 680.00	38.626
1	QPSK	Low	3 570.00	38.614
		Middle	3 625.00	38.678
		High	3 680.00	38.661
	16QAM	Low	3 570.00	38.603
		Middle	3 625.00	38.640
		High	3 680.00	38.649
	64QAM	Low	3 570.00	38.591
		Middle	3 625.00	38.726
		High	3 680.00	38.666
	256QAM	Low	3 570.00	38.611
		Middle	3 625.00	38.673
		High	3 680.00	38.587

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS NR 40 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C [5C]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	3 587.50	73.200
		Middle	3 625.00	73.539
		High	3 662.50	73.224
	16QAM	Low	3 587.50	73.275
		Middle	3 625.00	73.386
		High	3 662.50	73.124
	64QAM	Low	3 587.50	73.216
		Middle	3 625.00	73.556
		High	3 662.50	73.210
	256QAM	Low	3 587.50	73.145
		Middle	3 625.00	73.449
		High	3 662.50	73.291
1	QPSK	Low	3 587.50	72.930
		Middle	3 625.00	73.315
		High	3 662.50	73.102
	16QAM	Low	3 587.50	73.002
		Middle	3 625.00	73.566
		High	3 662.50	73.040
	64QAM	Low	3 587.50	72.991
		Middle	3 625.00	73.289
		High	3 662.50	73.088
	256QAM	Low	3 587.50	73.057
		Middle	3 625.00	73.457
		High	3 662.50	73.127

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS NR 40 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C [5C]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	3 585.00	68.290
		Middle	3 625.00	68.221
		High	3 665.00	68.197
	16QAM	Low	3 585.00	68.394
		Middle	3 625.00	68.284
		High	3 665.00	68.230
	64QAM	Low	3 585.00	68.301
		Middle	3 625.00	68.228
		High	3 665.00	68.282
	256QAM	Low	3 585.00	68.263
		Middle	3 625.00	68.232
		High	3 665.00	68.342
1	QPSK	Low	3 585.00	68.097
		Middle	3 625.00	68.251
		High	3 665.00	68.234
	16QAM	Low	3 585.00	68.248
		Middle	3 625.00	68.307
		High	3 665.00	68.230
	64QAM	Low	3 585.00	68.202
		Middle	3 625.00	68.276
		High	3 665.00	68.258
	256QAM	Low	3 585.00	68.161
		Middle	3 625.00	68.192
		High	3 665.00	68.304

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS NR 40 MHz 1C + NR 40 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C [5C]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	3 597.50	93.164
		Middle	3 625.00	93.222
		High	3 652.50	93.082
	16QAM	Low	3 597.50	93.173
		Middle	3 625.00	93.001
		High	3 652.50	93.127
	64QAM	Low	3 597.50	93.161
		Middle	3 625.00	93.116
		High	3 652.50	93.015
	256QAM	Low	3 597.50	93.099
		Middle	3 625.00	93.011
		High	3 652.50	93.136
1	QPSK	Low	3 597.50	93.050
		Middle	3 625.00	93.102
		High	3 652.50	93.031
	16QAM	Low	3 597.50	92.928
		Middle	3 625.00	93.202
		High	3 652.50	92.992
	64QAM	Low	3 597.50	92.981
		Middle	3 625.00	93.100
		High	3 652.50	93.235
	256QAM	Low	3 597.50	93.066
		Middle	3 625.00	93.067
		High	3 652.50	93.142

Note: 1C: 1 Carrier, 5C: 5 Carrier

Tabular Data of Non-Contiguous Occupied Bandwidth
CBRS NR(10 MHz 1C + 60 MHz 1C)[2C]

Ant	Mod	NR 10 MHz		NR 60 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 555.00	8.6489	3 670.00	57.919	66.568
	16QAM	3 555.00	8.6289	3 670.00	57.844	66.473
	64QAM	3 555.00	8.6240	3 670.00	57.899	66.523
	256QAM	3 555.00	8.6435	3 670.00	57.834	66.477
1	QPSK	3 555.00	8.6348	3 670.00	57.863	66.497
	16QAM	3 555.00	8.6650	3 670.00	57.815	66.480
	64QAM	3 555.00	8.6287	3 670.00	57.878	66.507
	256QAM	3 555.00	8.6305	3 670.00	57.748	66.379

Note: 1C: 1 Carrier, 2C: 2 Carrier
CBRS NR(60 MHz 1C + 10 MHz 1C)[2C]

Ant	Mod	NR 60 MHz		NR 10 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 580.00	57.927	3 695.00	8.6413	66.568
	16QAM	3 580.00	57.868	3 695.00	8.6166	66.484
	64QAM	3 580.00	57.928	3 695.00	8.6503	66.578
	256QAM	3 580.00	57.976	3 695.00	8.6241	66.600
1	QPSK	3 580.00	57.993	3 695.00	8.6255	66.619
	16QAM	3 580.00	57.849	3 695.00	8.6262	66.475
	64QAM	3 580.00	57.982	3 695.00	8.6071	66.589
	256QAM	3 580.00	57.929	3 695.00	8.6312	66.561

Note: 1C: 1 Carrier, 2C: 2 Carrier

CBRS NR(10 MHz 1C + 80 MHz 1C)[2C]

Ant	Mod	NR 10 MHz		NR 80 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 555.00	8.6121	3 660.00	77.513	86.125
	16QAM	3 555.00	8.6129	3 660.00	77.446	86.058
	64QAM	3 555.00	8.6286	3 660.00	77.556	86.184
	256QAM	3 555.00	8.6172	3 660.00	77.533	86.151
1	QPSK	3 555.00	8.6110	3 660.00	77.563	86.174
	16QAM	3 555.00	8.6243	3 660.00	77.520	86.144
	64QAM	3 555.00	8.6217	3 660.00	77.443	86.065
	256QAM	3 555.00	8.6208	3 660.00	77.364	85.984

Note: 1C: 1 Carrier, 2C: 2 Carrier

CBRS NR(80 MHz 1C + 10 MHz 1C)[2C]

Ant	Mod	NR 80 MHz		NR 10 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 590.00	77.666	3 695.00	8.6183	86.284
	16QAM	3 590.00	77.600	3 695.00	8.6145	86.214
	64QAM	3 590.00	77.603	3 695.00	8.6251	86.228
	256QAM	3 590.00	77.483	3 695.00	8.6286	86.111
1	QPSK	3 590.00	77.477	3 695.00	8.6259	86.103
	16QAM	3 590.00	77.665	3 695.00	8.6201	86.285
	64QAM	3 590.00	77.602	3 695.00	8.6197	86.222
	256QAM	3 590.00	77.462	3 695.00	8.6307	86.093

Note: 1C: 1 Carrier, 2C: 2 Carrier

CBRS LTE[5 MHz 1C + (5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C)][5C(1C+4C)]

Ant	Mod	LTE 5 MHz		LTE(5 MHz + 5 MHz + 5 MHz + 5 MHz)		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 552.50	4.5069	3 690.00	19.445	23.952
	16QAM	3 552.50	4.5196	3 690.00	19.404	23.923
	64QAM	3 552.50	4.5262	3 690.00	19.401	23.928
	256QAM	3 552.50	4.5067	3 690.00	19.423	23.929
	1024QAM	3 552.50	4.5130	3 690.00	19.388	23.901
1	QPSK	3 552.50	4.5142	3 690.00	19.445	23.959
	16QAM	3 552.50	4.5219	3 690.00	19.443	23.965
	64QAM	3 552.50	4.5209	3 690.00	19.425	23.946
	256QAM	3 552.50	4.5345	3 690.00	19.396	23.930
	1024QAM	3 552.50	4.5044	3 690.00	19.379	23.883

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS LTE[(5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C) + 5 MHz 1C][5C(4C+1C)]

Ant	Mod	LTE(5 MHz + 5 MHz + 5 MHz + 5 MHz)		LTE 5 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 560.00	19.4343	3 697.50	4.517	23.951
	16QAM	3 560.00	19.4610	3 697.50	4.496	23.957
	64QAM	3 560.00	19.4473	3 697.50	4.527	23.974
	256QAM	3 560.00	19.4113	3 697.50	4.511	23.922
	1024QAM	3 560.00	19.4501	3 697.50	4.528	23.978
1	QPSK	3 560.00	19.3669	3 697.50	4.520	23.886
	16QAM	3 560.00	19.4189	3 697.50	4.512	23.931
	64QAM	3 560.00	19.3925	3 697.50	4.506	23.899
	256QAM	3 560.00	19.4105	3 697.50	4.530	23.940
	1024QAM	3 560.00	19.4397	3 697.50	4.521	23.960

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS LTE[5 MHz 1C + (5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 20 MHz 1C)][5C(1C+4C)]

Ant	Mod	LTE 5 MHz		LTE(5 MHz + 5 MHz + 5 MHz + 20 MHz)		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 552.50	4.5064	3 682.50	33.532	38.038
	16QAM	3 552.50	4.5136	3 682.50	33.540	38.054
	64QAM	3 552.50	4.5114	3 682.50	33.588	38.099
	256QAM	3 552.50	4.5165	3 682.50	33.605	38.121
	1024QAM	3 552.50	4.5188	3 682.50	33.572	38.091
1	QPSK	3 552.50	4.5205	3 682.50	33.636	38.157
	16QAM	3 552.50	4.5180	3 682.50	33.559	38.077
	64QAM	3 552.50	4.5242	3 682.50	33.683	38.207
	256QAM	3 552.50	4.5098	3 682.50	33.567	38.076
	1024QAM	3 552.50	4.5251	3 682.50	33.585	38.110

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS LTE[(20 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C) + 5 MHz 1C][5C(4C+1C)]

Ant	Mod	LTE(20 MHz + 5 MHz + 5 MHz + 5 MHz)		LTE 5 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 567.50	33.631	3 697.50	4.5350	38.166
	16QAM	3 567.50	33.593	3 697.50	4.5172	38.110
	64QAM	3 567.50	33.670	3 697.50	4.5240	38.194
	256QAM	3 567.50	33.549	3 697.50	4.5299	38.079
	1024QAM	3 567.50	33.593	3 697.50	4.5182	38.111
1	QPSK	3 567.50	33.594	3 697.50	4.5088	38.102
	16QAM	3 567.50	33.612	3 697.50	4.5084	38.120
	64QAM	3 567.50	33.531	3 697.50	4.5292	38.060
	256QAM	3 567.50	33.580	3 697.50	4.5069	38.087
	1024QAM	3 567.50	33.560	3 697.50	4.5190	38.079

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS LTE[20 MHz 1C + (20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C)][5C(1C+4C)]

Ant	Mod	LTE 20 MHz		LTE(20 MHz + 20 MHz + 20 MHz + 20 MHz)		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 560.00	17.907	3 660.00	77.506	95.413
	16QAM	3 560.00	17.953	3 660.00	77.617	95.569
	64QAM	3 560.00	17.881	3 660.00	77.575	95.456
	256QAM	3 560.00	17.977	3 660.00	77.557	95.534
	1024QAM	3 560.00	17.911	3 660.00	77.553	95.464
1	QPSK	3 560.00	17.946	3 660.00	77.739	95.685
	16QAM	3 560.00	17.981	3 660.00	77.570	95.552
	64QAM	3 560.00	17.952	3 660.00	77.683	95.635
	256QAM	3 560.00	17.914	3 660.00	77.551	95.465
	1024QAM	3 560.00	17.988	3 660.00	77.594	95.582

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS LTE[(20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C) + 20 MHz 1C][5C(4C+1C)]

Ant	Mod	LTE(20 MHz + 20 MHz + 20 MHz + 20 MHz)		LTE 20 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 590.00	77.556	3 690.00	17.967	95.523
	16QAM	3 590.00	77.643	3 690.00	17.985	95.628
	64QAM	3 590.00	77.724	3 690.00	17.937	95.661
	256QAM	3 590.00	77.627	3 690.00	17.952	95.579
	1024QAM	3 590.00	77.662	3 690.00	17.921	95.583
1	QPSK	3 590.00	77.455	3 690.00	17.956	95.411
	16QAM	3 590.00	77.530	3 690.00	17.940	95.471
	64QAM	3 590.00	77.493	3 690.00	17.954	95.447
	256QAM	3 590.00	77.419	3 690.00	17.944	95.363
	1024QAM	3 590.00	77.384	3 690.00	17.971	95.354

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS NR[10 MHz 1C + (10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C)][5C(1C+4C)]

Ant	Mod	NR 10 MHz		NR(10 MHz + 10 MHz + 10 MHz + 10 MHz)		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 555.00	8.6326	3 680.00	38.614	47.247
	16QAM	3 555.00	8.6391	3 680.00	38.697	47.336
	64QAM	3 555.00	8.6203	3 680.00	38.639	47.259
	256QAM	3 555.00	8.6070	3 680.00	38.598	47.205
1	QPSK	3 555.00	8.6363	3 680.00	38.459	47.095
	16QAM	3 555.00	8.6373	3 680.00	38.582	47.219
	64QAM	3 555.00	8.6375	3 680.00	38.485	47.123
	256QAM	3 555.00	8.6229	3 680.00	38.457	47.080

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS NR[(10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C) + 10 MHz 1C][5C(4C+1C)]

Ant	Mod	NR(10 MHz + 10 MHz + 10 MHz + 10 MHz)		NR 10 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 570.00	38.505	3 695.00	8.6656	47.171
	16QAM	3 570.00	38.494	3 695.00	8.6684	47.163
	64QAM	3 570.00	38.622	3 695.00	8.6727	47.295
	256QAM	3 570.00	38.545	3 695.00	8.6850	47.230
1	QPSK	3 570.00	38.517	3 695.00	8.6770	47.194
	16QAM	3 570.00	38.543	3 695.00	8.6982	47.241
	64QAM	3 570.00	38.516	3 695.00	8.6328	47.149
	256QAM	3 570.00	38.508	3 695.00	8.6549	47.163

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS NR[10 MHz 1C + (10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 40 MHz 1C)][5C(1C+4C)]

Ant	Mod	NR 10 MHz		NR(10 MHz + 10 MHz + 10 MHz + 40 MHz)		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 555.00	8.6341	3 665.00	68.093	76.727
	16QAM	3 555.00	8.6131	3 665.00	68.091	76.704
	64QAM	3 555.00	8.6528	3 665.00	68.026	76.678
	256QAM	3 555.00	8.6196	3 665.00	68.180	76.800
1	QPSK	3 555.00	8.6307	3 665.00	68.137	76.768
	16QAM	3 555.00	8.6027	3 665.00	68.101	76.704
	64QAM	3 555.00	8.6220	3 665.00	68.060	76.682
	256QAM	3 555.00	8.6157	3 665.00	68.172	76.788

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS NR[(40 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C) + 10 MHz 1C][5C(4C+1C)]

Ant	Mod	NR(40 MHz + 10 MHz + 10 MHz + 10 MHz)		NR 10 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 585.00	67.991	3 695.00	8.6158	76.607
	16QAM	3 585.00	67.973	3 695.00	8.6278	76.601
	64QAM	3 585.00	68.106	3 695.00	8.6133	76.719
	256QAM	3 585.00	67.968	3 695.00	8.6179	76.586
1	QPSK	3 585.00	67.893	3 695.00	8.6427	76.536
	16QAM	3 585.00	67.862	3 695.00	8.6331	76.495
	64QAM	3 585.00	68.002	3 695.00	8.6272	76.630
	256QAM	3 585.00	67.862	3 695.00	8.6449	76.507

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS NR[10 MHz 1C + (10 MHz 1C + 10 MHz 1C + 30 MHz 1C + 40 MHz 1C)][5C(1C+4C)]

Ant	Mod	NR 10 MHz		NR(10 MHz + 10 MHz + 30 MHz + 40 MHz)		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 555.00	8.6330	3 655.00	87.966	96.599
	16QAM	3 555.00	8.6122	3 655.00	87.922	96.534
	64QAM	3 555.00	8.6261	3 655.00	87.806	96.433
	256QAM	3 555.00	8.6085	3 655.00	87.841	96.450
1	QPSK	3 555.00	8.6331	3 655.00	87.844	96.477
	16QAM	3 555.00	8.6429	3 655.00	87.837	96.480
	64QAM	3 555.00	8.6237	3 655.00	87.938	96.562
	256QAM	3 555.00	8.6321	3 655.00	87.809	96.441

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS NR[(40 MHz 1C + 30 MHz 1C + 10 MHz 1C + 10 MHz 1C) + 10 MHz 1C][5C(4C+1C)]

Ant	Mod	NR(40 MHz + 30 MHz + 10 MHz + 10 MHz)		NR 10 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 595.00	88.015	3 695.00	8.6301	96.645
	16QAM	3 595.00	87.889	3 695.00	8.6344	96.523
	64QAM	3 595.00	87.965	3 695.00	8.6382	96.603
	256QAM	3 595.00	88.038	3 695.00	8.6379	96.676
1	QPSK	3 595.00	87.938	3 695.00	8.6207	96.559
	16QAM	3 595.00	87.779	3 695.00	8.6345	96.414
	64QAM	3 595.00	87.775	3 695.00	8.6168	96.391
	256QAM	3 595.00	87.808	3 695.00	8.6125	96.421

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS NR[60 MHz 1C + (10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C)][5C(1C+4C)]

Ant	Mod	NR 60 MHz		NR(10 MHz + 10 MHz + 10 MHz + 10 MHz)		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 580.00	57.969	3 680.00	38.480	96.449
	16QAM	3 580.00	57.956	3 680.00	38.467	96.423
	64QAM	3 580.00	57.857	3 680.00	38.466	96.322
	256QAM	3 580.00	58.017	3 680.00	38.491	96.508
1	QPSK	3 580.00	57.906	3 680.00	38.519	96.425
	16QAM	3 580.00	57.940	3 680.00	38.562	96.502
	64QAM	3 580.00	57.962	3 680.00	38.546	96.508
	256QAM	3 580.00	57.930	3 680.00	38.512	96.442

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS NR[(10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C) + 60 MHz 1C][5C(4C+1C)]

Ant	Mod	NR(10 MHz + 10 MHz + 10 MHz + 10 MHz)		NR 10 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 570.00	38.519	3 670.00	57.953	96.472
	16QAM	3 570.00	38.508	3 670.00	57.917	96.425
	64QAM	3 570.00	38.479	3 670.00	57.932	96.411
	256QAM	3 570.00	38.548	3 670.00	57.746	96.294
1	QPSK	3 570.00	38.500	3 670.00	57.890	96.390
	16QAM	3 570.00	38.461	3 670.00	57.936	96.397
	64QAM	3 570.00	38.492	3 670.00	57.842	96.334
	256QAM	3 570.00	38.417	3 670.00	57.880	96.297

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS NR 60 MHz 1C + (NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 10 MHz 1C)[5C(1C+4C)]

Ant	Mod	NR 60 MHz		NR 10 MHz + NR 10 MHz + NR 10 MHz + LTE 10 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 580.00	57.878	3 680.00	38.530	96.408
	16QAM	3 580.00	57.949	3 680.00	38.520	96.470
	64QAM	3 580.00	57.904	3 680.00	38.511	96.415
	256QAM	3 580.00	57.920	3 680.00	38.406	96.326
1	QPSK	3 580.00	57.939	3 680.00	38.516	96.455
	16QAM	3 580.00	58.052	3 680.00	38.494	96.547
	64QAM	3 580.00	57.948	3 680.00	38.437	96.386
	256QAM	3 580.00	58.015	3 680.00	38.486	96.501

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS (LTE 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C) + NR 60 MHz 1C [5C(4C+1C)]

Ant	Mod	LTE 10 MHz + NR 10 MHz + NR 10 MHz + NR 10 MHz		NR 60 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 570.00	38.489	3 670.00	57.896	96.385
	16QAM	3 570.00	38.490	3 670.00	57.963	96.453
	64QAM	3 570.00	38.478	3 670.00	57.985	96.463
	256QAM	3 570.00	38.466	3 670.00	57.920	96.387
1	QPSK	3 570.00	38.491	3 670.00	57.794	96.285
	16QAM	3 570.00	38.501	3 670.00	57.885	96.386
	64QAM	3 570.00	38.527	3 670.00	57.807	96.333
	256QAM	3 570.00	38.497	3 670.00	57.927	96.424

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS LTE 5 MHz 1C + (LTE 5 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C) [5C(1C+4C)]

Ant	Mod	LTE 5 MHz		LTE 5 MHz + NR 10 MHz + NR 10 MHz + NR 10 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 552.50	3.9930	3 682.50	33.691	37.684
	16QAM	3 552.50	4.0117	3 682.50	33.630	37.642
	64QAM	3 552.50	4.0085	3 682.50	33.712	37.721
	256QAM	3 552.50	4.0073	3 682.50	33.727	37.735
1	QPSK	3 552.50	3.9986	3 682.50	33.619	37.617
	16QAM	3 552.50	3.9995	3 682.50	33.662	37.662
	64QAM	3 552.50	4.0155	3 682.50	33.657	37.673
	256QAM	3 552.50	4.0041	3 682.50	33.628	37.632

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS (NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C) + LTE 5 MHz 1C [5C(4C+1C)]

Ant	Mod	NR 10 MHz + NR 10 MHz + NR 10 MHz + LTE 5 MHz		LTE 5 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 567.50	33.711	3 697.50	4.0245	37.736
	16QAM	3 567.50	33.677	3 697.50	4.0248	37.702
	64QAM	3 567.50	33.663	3 697.50	3.9899	37.653
	256QAM	3 567.50	33.698	3 697.50	3.9947	37.693
1	QPSK	3 567.50	33.636	3 697.50	3.9969	37.633
	16QAM	3 567.50	33.644	3 697.50	4.0034	37.647
	64QAM	3 567.50	33.603	3 697.50	4.0074	37.610
	256QAM	3 567.50	33.587	3 697.50	3.9994	37.586

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS LTE 5 MHz 1C + (NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 40 MHz 1C) [5C(1C+4C)]

Ant	Mod	LTE 5 MHz		NR 10 MHz + NR 10 MHz + NR 10 MHz + NR 40 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 552.50	4.0340	3 665.00	68.134	72.168
	16QAM	3 552.50	3.9983	3 665.00	68.073	72.072
	64QAM	3 552.50	4.0316	3 665.00	68.116	72.147
	256QAM	3 552.50	3.9984	3 665.00	68.089	72.088
1	QPSK	3 552.50	3.9973	3 665.00	68.052	72.049
	16QAM	3 552.50	4.0053	3 665.00	68.061	72.066
	64QAM	3 552.50	4.0149	3 665.00	68.081	72.095
	256QAM	3 552.50	4.0033	3 665.00	68.081	72.084

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS (NR 40 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C) + LTE 5 MHz 1C [5C(4C+1C)]

Ant	Mod	NR 40 MHz + NR 10 MHz + NR 10 MHz + NR 10 MHz		LTE 5 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 585.00	68.084	3 697.50	4.0185	72.102
	16QAM	3 585.00	68.076	3 697.50	3.9968	72.073
	64QAM	3 585.00	68.033	3 697.50	4.0208	72.054
	256QAM	3 585.00	68.054	3 697.50	4.0100	72.064
1	QPSK	3 585.00	67.964	3 697.50	4.0062	71.970
	16QAM	3 585.00	67.950	3 697.50	3.9915	71.941
	64QAM	3 585.00	67.953	3 697.50	3.9916	71.944
	256QAM	3 585.00	68.052	3 697.50	4.0096	72.062

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS LTE 5 MHz 1C + (LTE 5 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 40 MHz 1C) [5C(1C+4C)]

Ant	Mod	LTE 5 MHz		LTE 5 MHz + NR 10 MHz + NR 10 MHz + NR 40 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 552.50	4.0128	3 667.50	63.302	67.315
	16QAM	3 552.50	4.0053	3 667.50	63.438	67.444
	64QAM	3 552.50	4.0030	3 667.50	63.296	67.299
	256QAM	3 552.50	3.9935	3 667.50	63.279	67.272
1	QPSK	3 552.50	4.0312	3 667.50	63.275	67.306
	16QAM	3 552.50	3.9849	3 667.50	63.292	67.277
	64QAM	3 552.50	4.0081	3 667.50	63.256	67.264
	256QAM	3 552.50	3.9867	3 667.50	63.315	67.302

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS (NR 40 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C) + LTE 5 MHz 1C [5C(4C+1C)]

Ant	Mod	NR 40 MHz + NR 10 MHz + NR 10 MHz + LTE 5 MHz		LTE 5 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 582.50	63.242	3 697.50	4.0233	67.265
	16QAM	3 582.50	63.342	3 697.50	4.0264	67.368
	64QAM	3 582.50	63.250	3 697.50	4.0455	67.296
	256QAM	3 582.50	63.266	3 697.50	3.9922	67.258
1	QPSK	3 582.50	63.176	3 697.50	3.9989	67.175
	16QAM	3 582.50	63.111	3 697.50	3.9964	67.107
	64QAM	3 582.50	63.168	3 697.50	3.9966	67.164
	256QAM	3 582.50	63.195	3 697.50	3.9877	67.183

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS LTE 5 MHz 1C + (LTE 5 MHz 1C + LTE 5 MHz 1C + NR 40 MHz 1C + NR 40 MHz 1C) [5C(1C+4C)]

Ant	Mod	LTE 5 MHz		LTE 5 MHz + LTE 5 MHz + NR 40 MHz + NR 40 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 552.50	4.0052	3 655.00	88.011	92.016
	16QAM	3 552.50	4.0193	3 655.00	87.970	91.990
	64QAM	3 552.50	4.0044	3 655.00	88.060	92.065
	256QAM	3 552.50	4.0218	3 655.00	87.933	91.955
1	QPSK	3 552.50	3.9975	3 655.00	88.039	92.037
	16QAM	3 552.50	4.0188	3 655.00	88.004	92.022
	64QAM	3 552.50	3.9940	3 655.00	88.208	92.202
	256QAM	3 552.50	3.9957	3 655.00	88.064	92.060

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

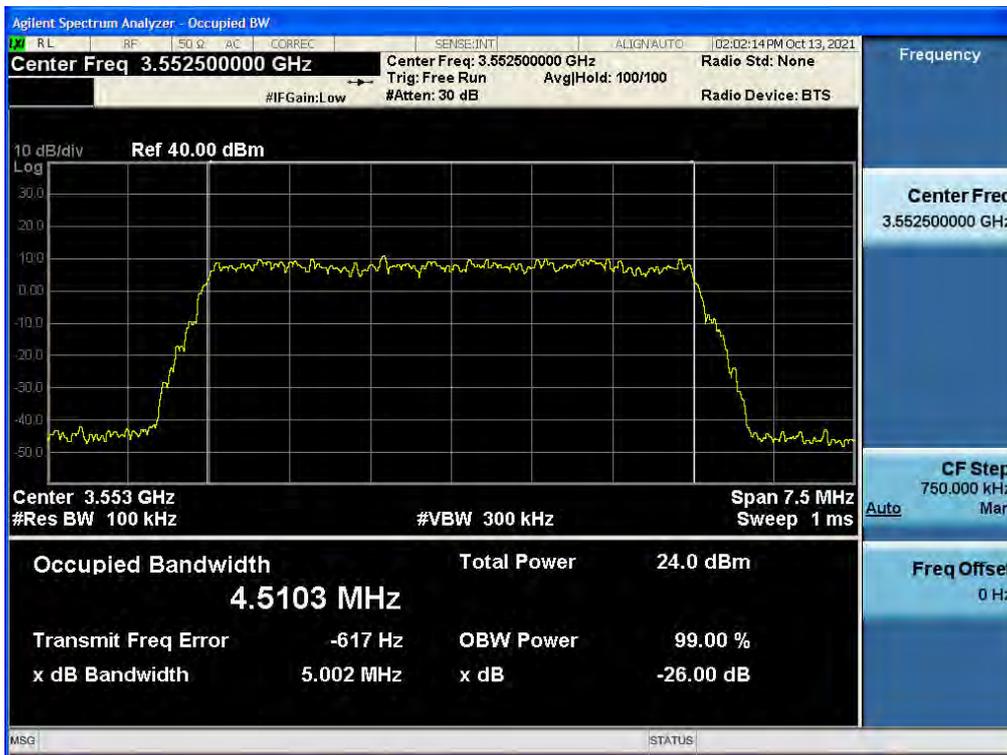
CBRS (NR 40 MHz 1C + NR 40 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C) + LTE 5 MHz 1C [5C(4C+1C)]

Ant	Mod	NR 40 MHz + NR 40 MHz + LTE 5 MHz + LTE 5 MHz		LTE 5 MHz		Total OBW (MHz)
		Frequency (MHz)	Measured Value (MHz)	Frequency (MHz)	Measured Value (MHz)	
0	QPSK	3 595.00	88.206	3 697.50	4.0012	92.207
	16QAM	3 595.00	88.245	3 697.50	4.0201	92.265
	64QAM	3 595.00	88.163	3 697.50	3.9843	92.147
	256QAM	3 595.00	88.203	3 697.50	4.0380	92.241
1	QPSK	3 595.00	88.016	3 697.50	3.9820	91.998
	16QAM	3 595.00	87.988	3 697.50	3.9942	91.982
	64QAM	3 595.00	88.089	3 697.50	4.0038	92.093
	256QAM	3 595.00	87.988	3 697.50	3.9946	91.983

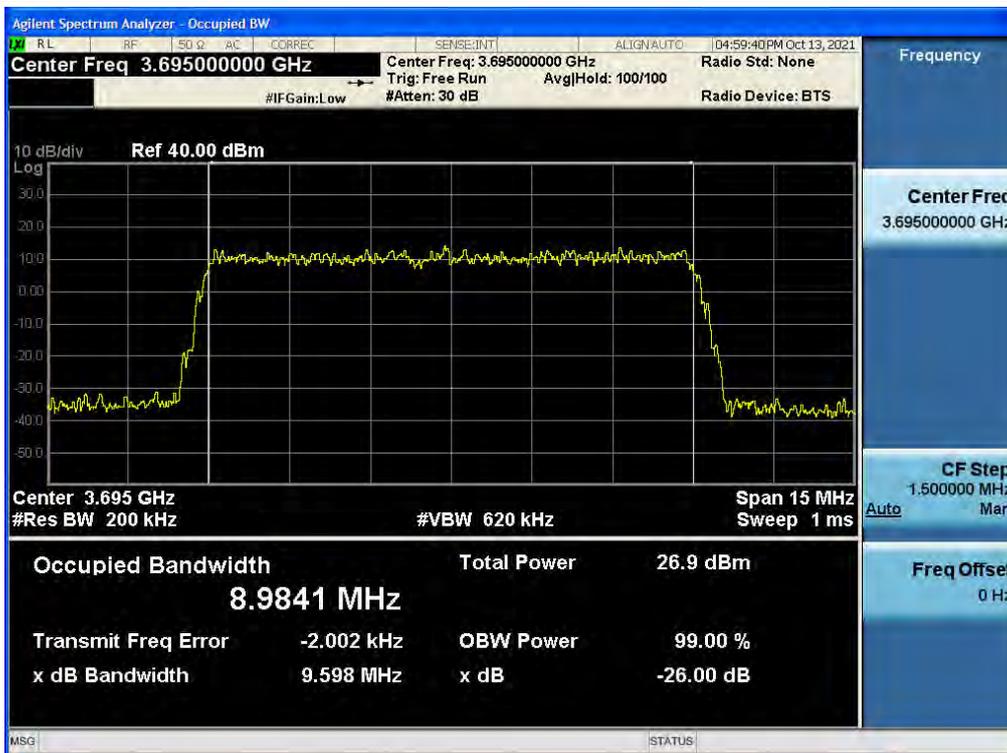
Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

Plot Data of Occupied bandwidth

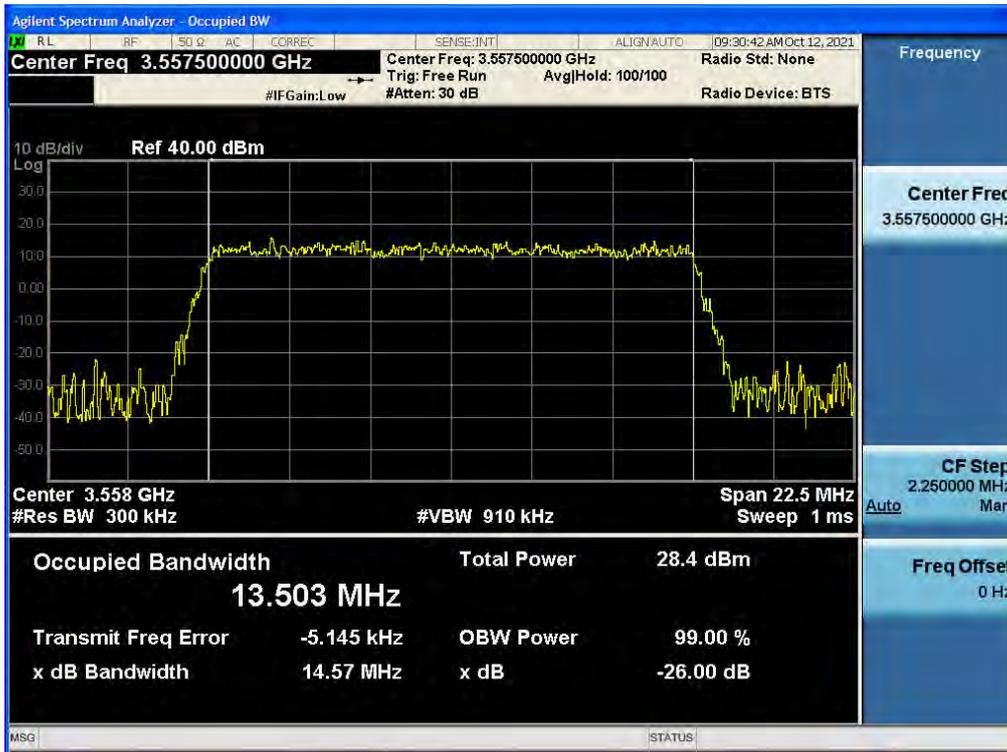
Antenna 1 / CBRS LTE 5 MHz 1 Carrier / 16QAM / Low



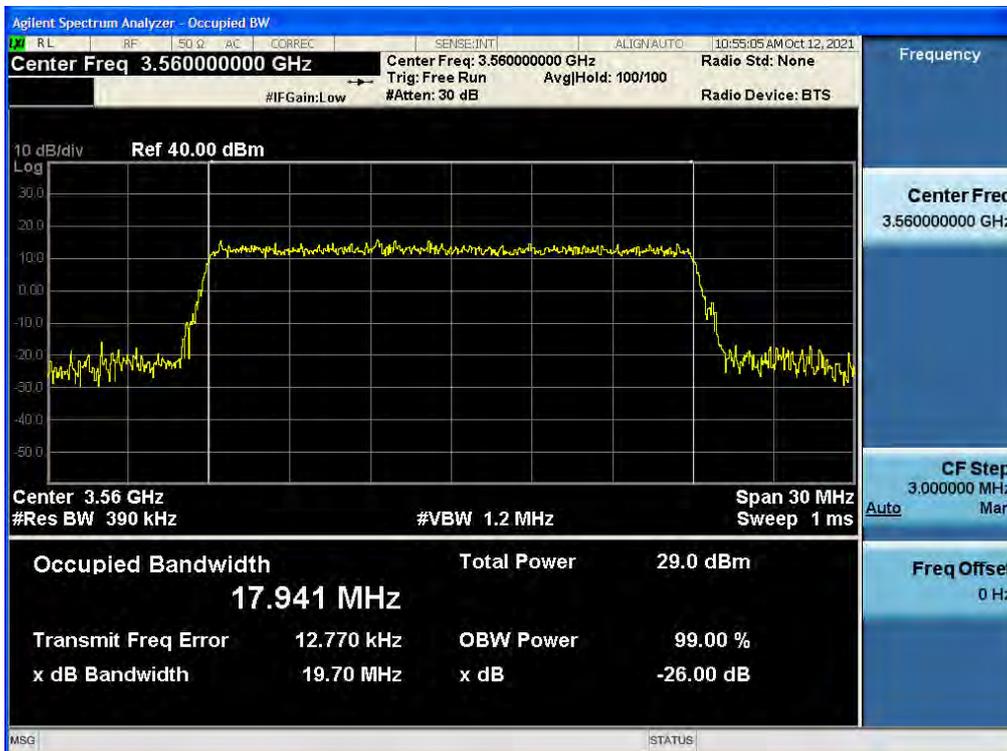
Antenna 1 / CBRS LTE 10 MHz 1 Carrier / 16QAM / High



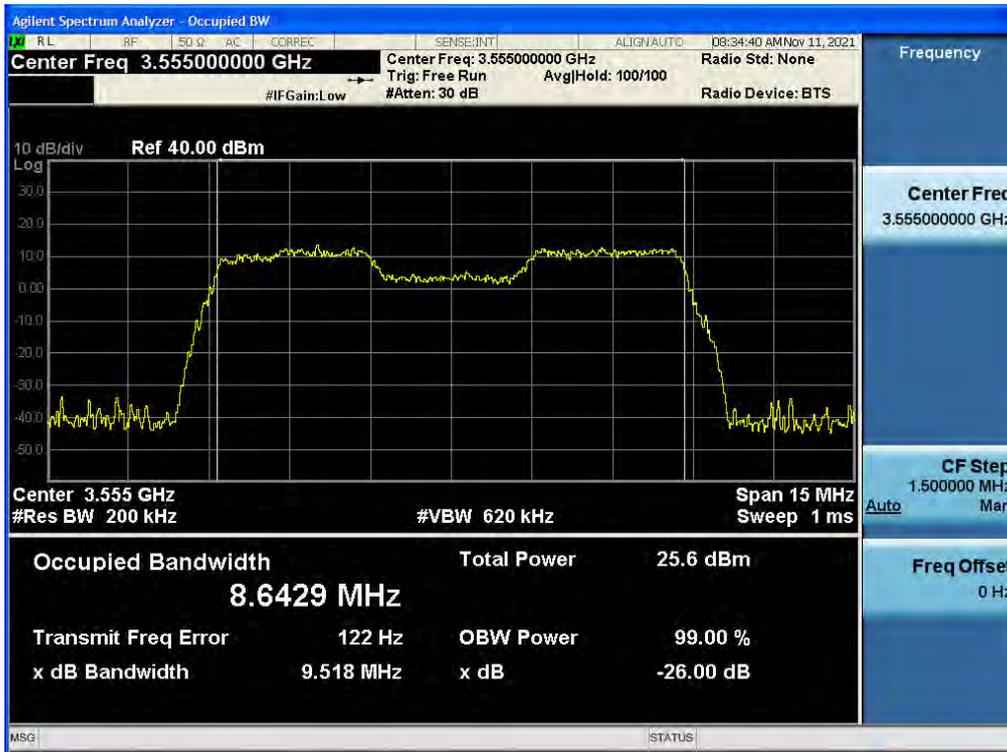
Antenna 0 / CBRS LTE 15 MHz 1 Carrier / QPSK / Low



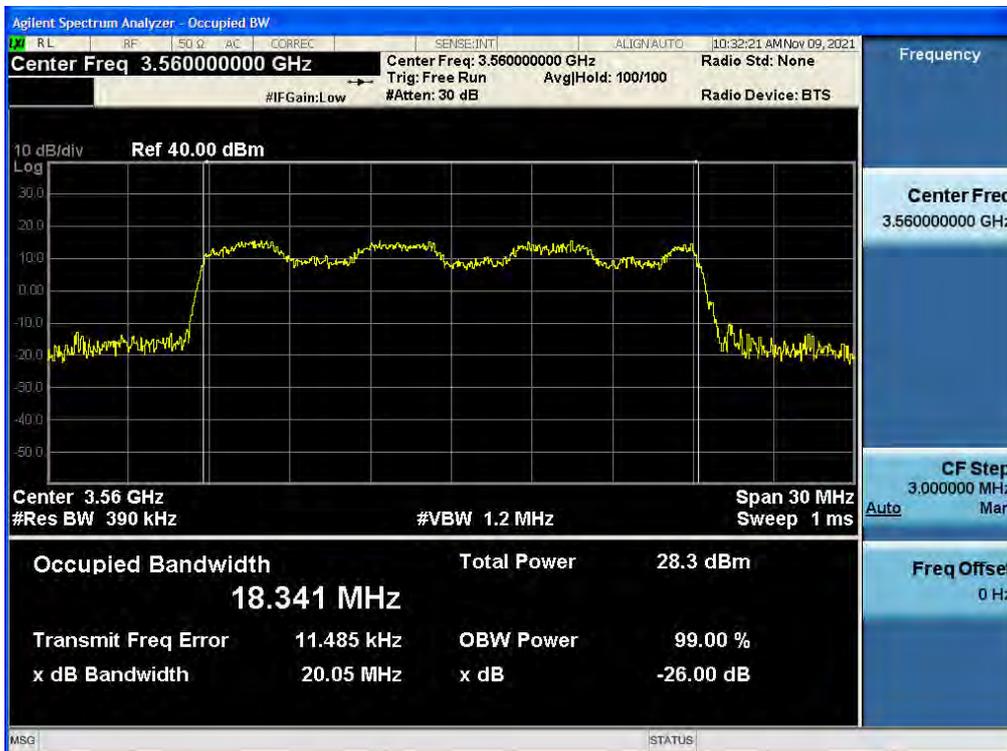
Antenna 0 / CBRS LTE 20 MHz 1 Carrier / 256QAM / Low



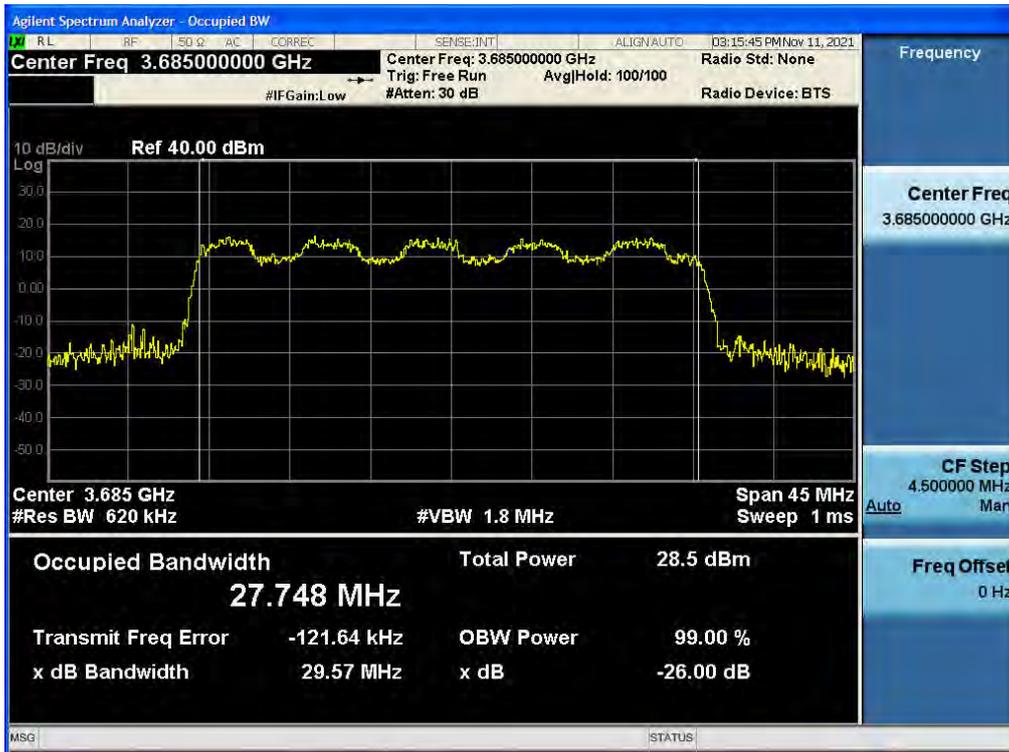
Antenna 1 / CBRS NR 10 MHz 1 Carrier / QPSK / Low



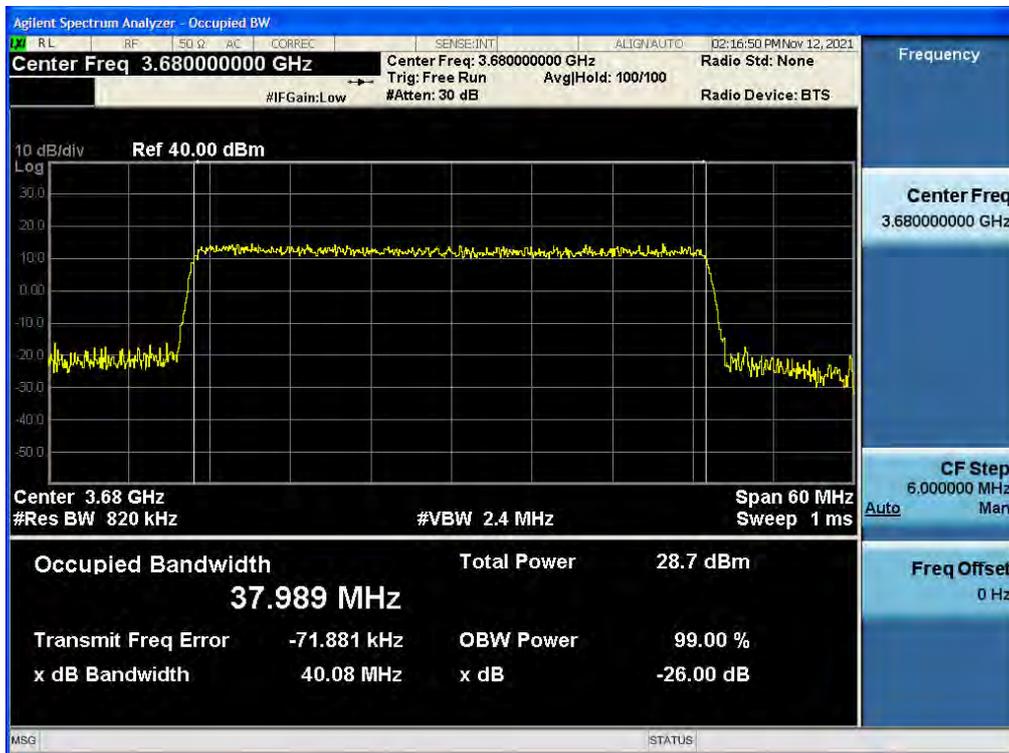
Antenna 0 / CBRS NR 20 MHz 1 Carrier / 16QAM / Low



Antenna 1 / CBRS NR 30 MHz 1 Carrier / 16QAM / High



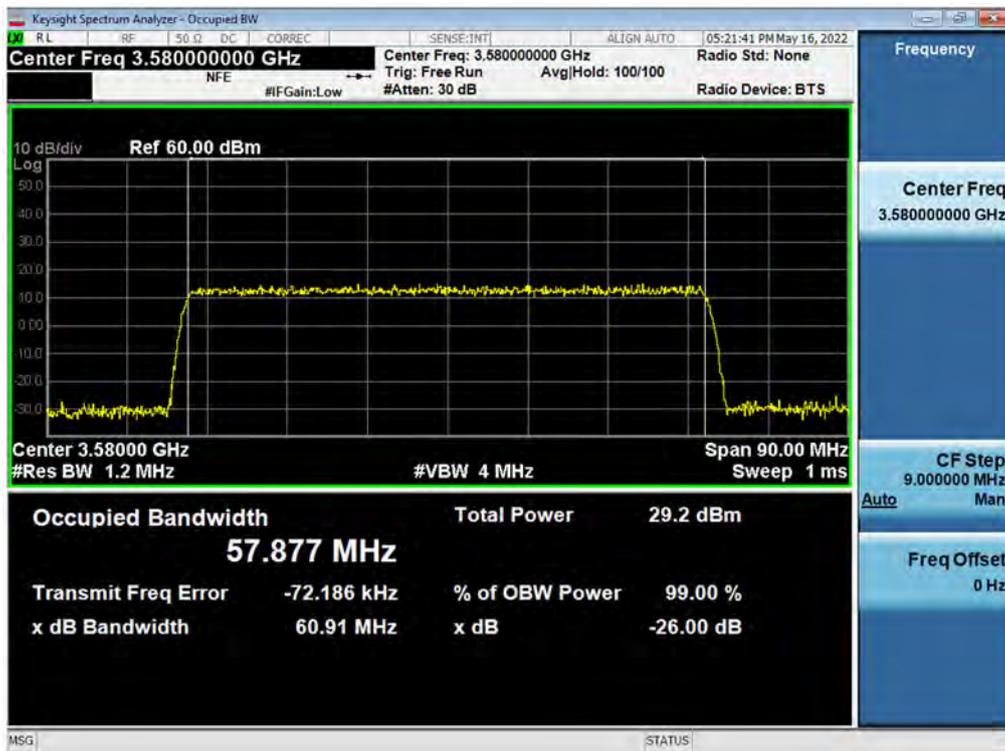
Antenna 1 / CBRS NR 40 MHz 1 Carrier / 256QAM / High



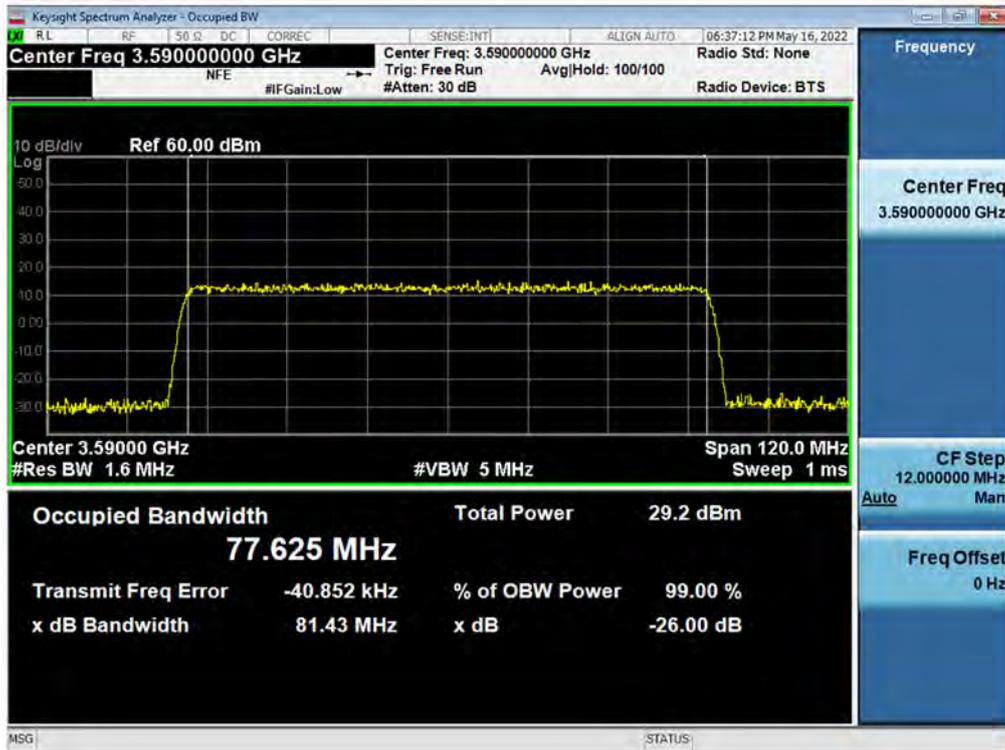
Antenna 1 / CBRS NR 50 MHz 1 Carrier / 64QAM / High



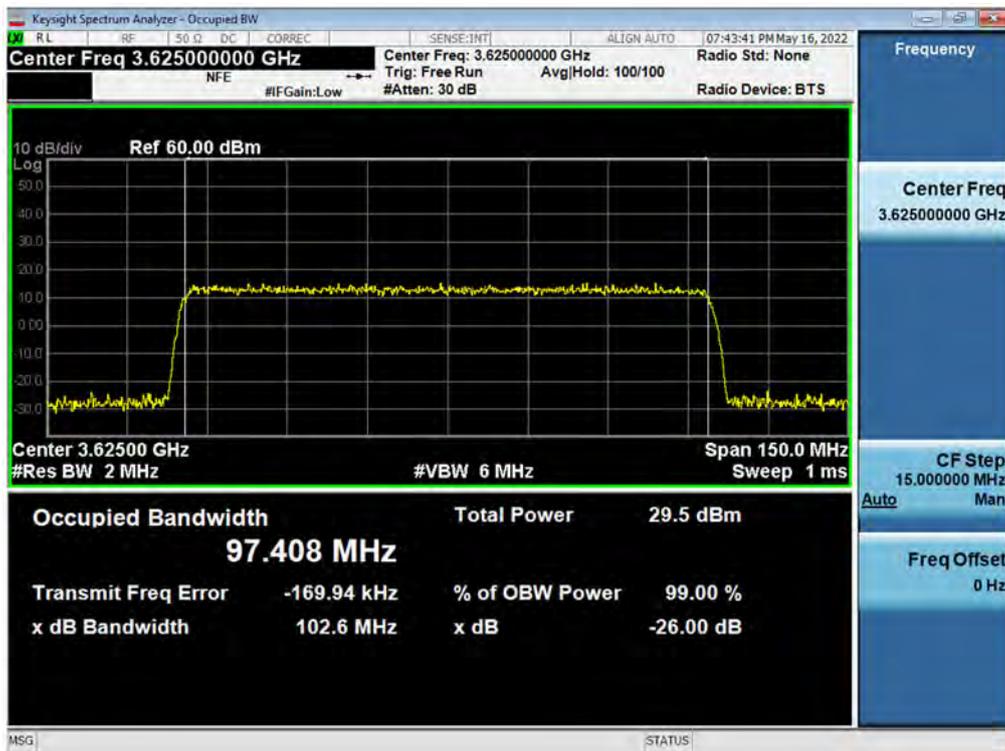
Antenna 1 / CBRS NR 60 MHz 1 Carrier / 16QAM / Low



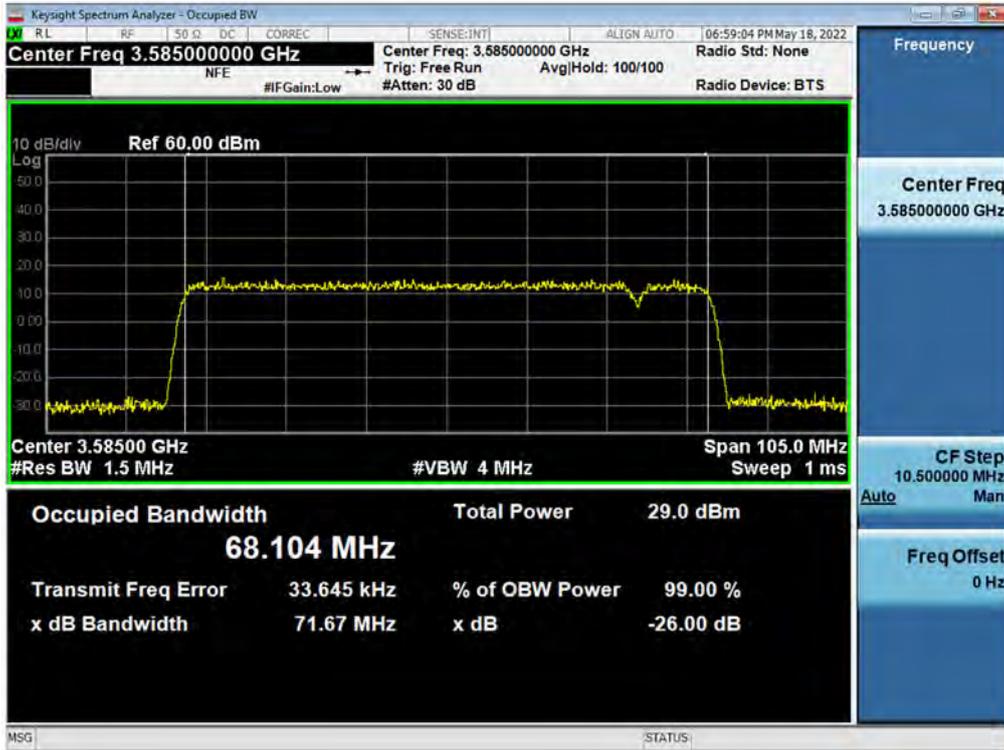
Antenna 1 / CBRS NR 80 MHz 1 Carrier / 64QAM / Low



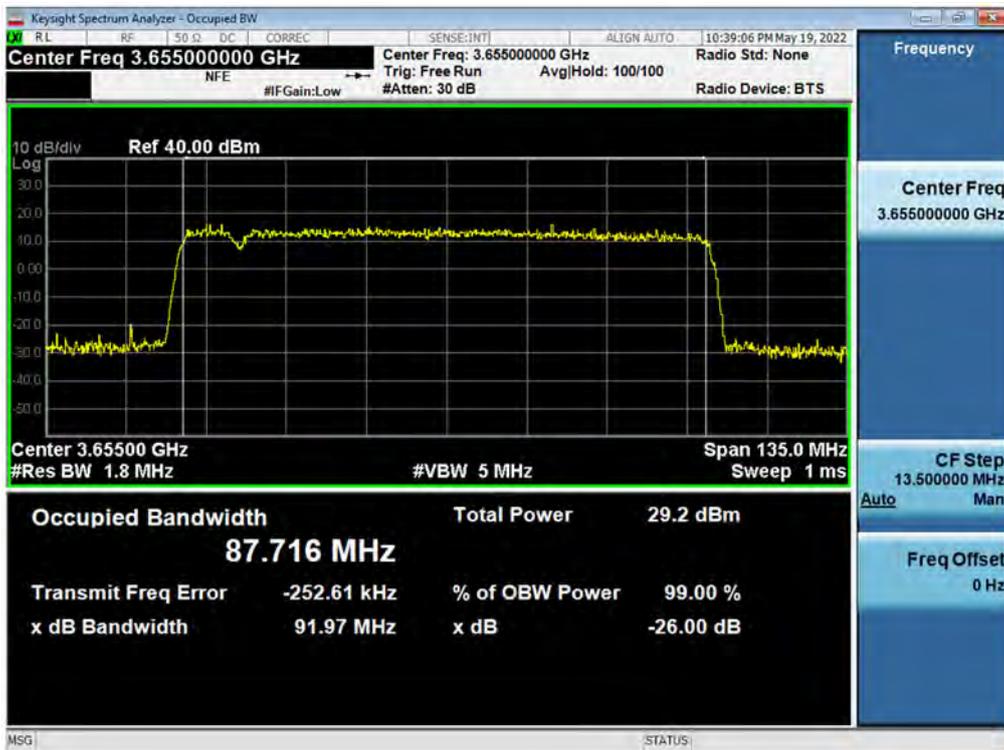
Antenna 1 / CBRS NR 100 MHz 1 Carrier / QPSK / Middle

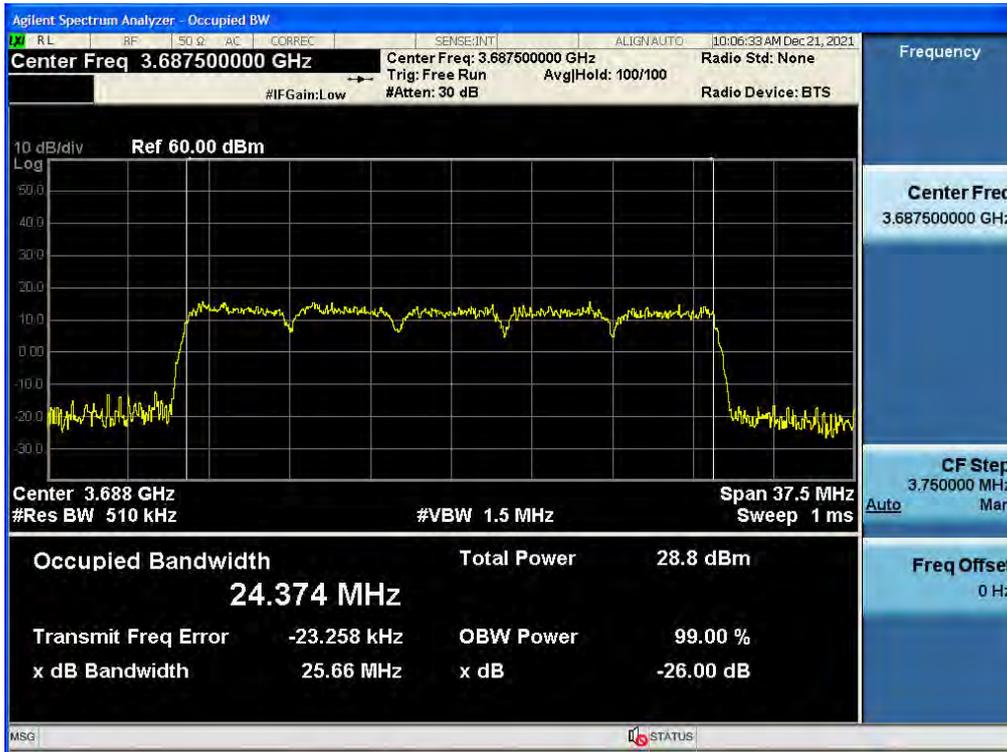
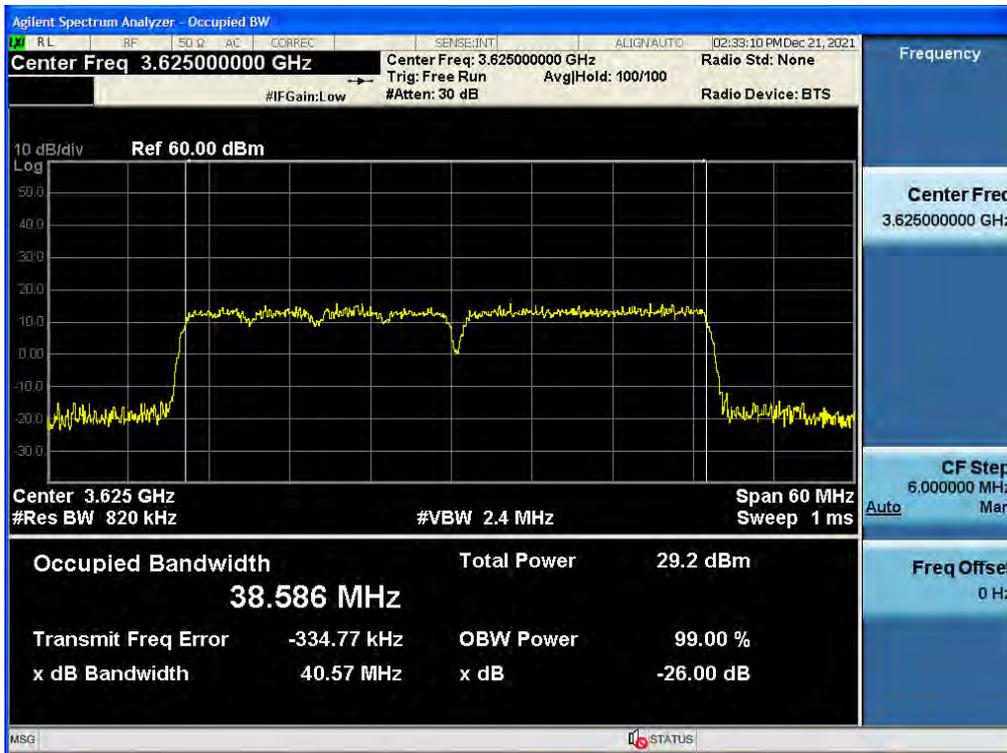


Antenna 0 / CBRS NR(60 MHz 1C + 10 MHz 1C)[2C] / Contiguous / QPSK / Low

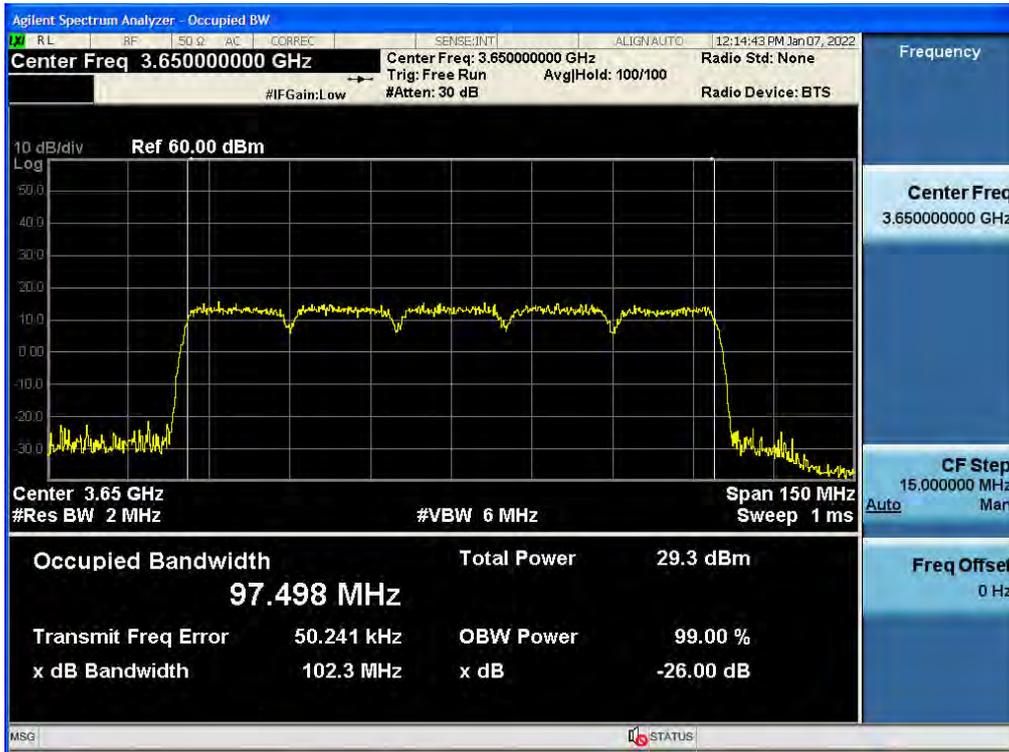


Antenna 0 / CBRS NR(80 MHz 1C + 10 MHz 1C)[2C] / Contiguous / QPSK / High

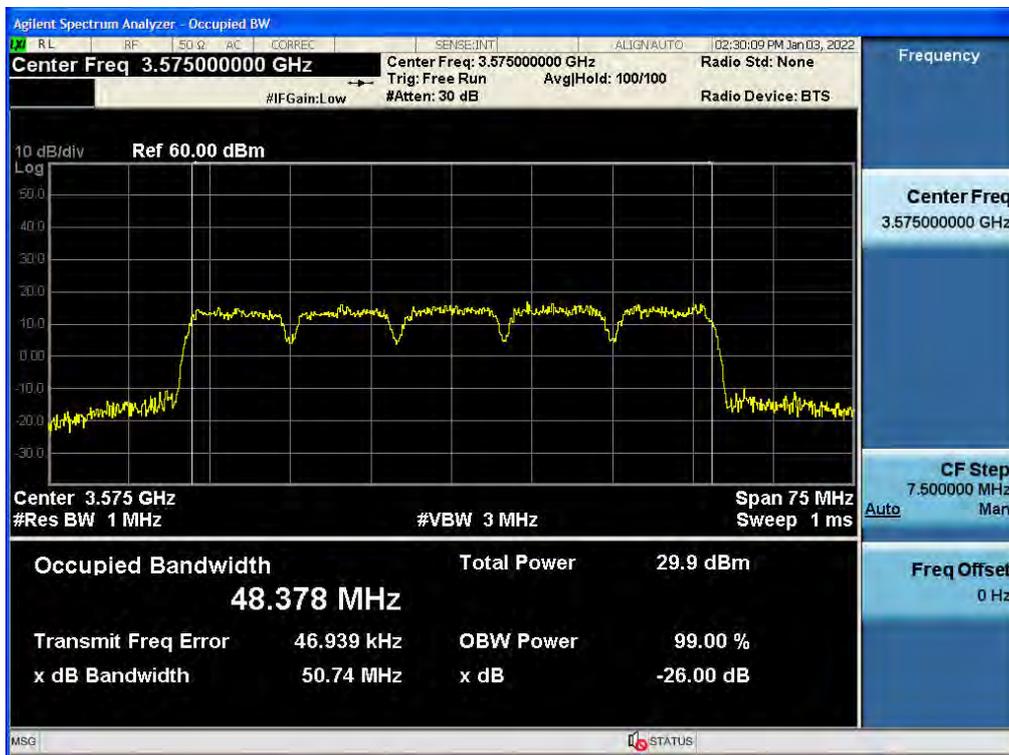


Antenna 1 / CBRS LTE(5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C)[5C] / Contiguous / 16QAM / High

Antenna 1 / CBRS LTE(20 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C)[5C] / Contiguous / 256QAM / Middle


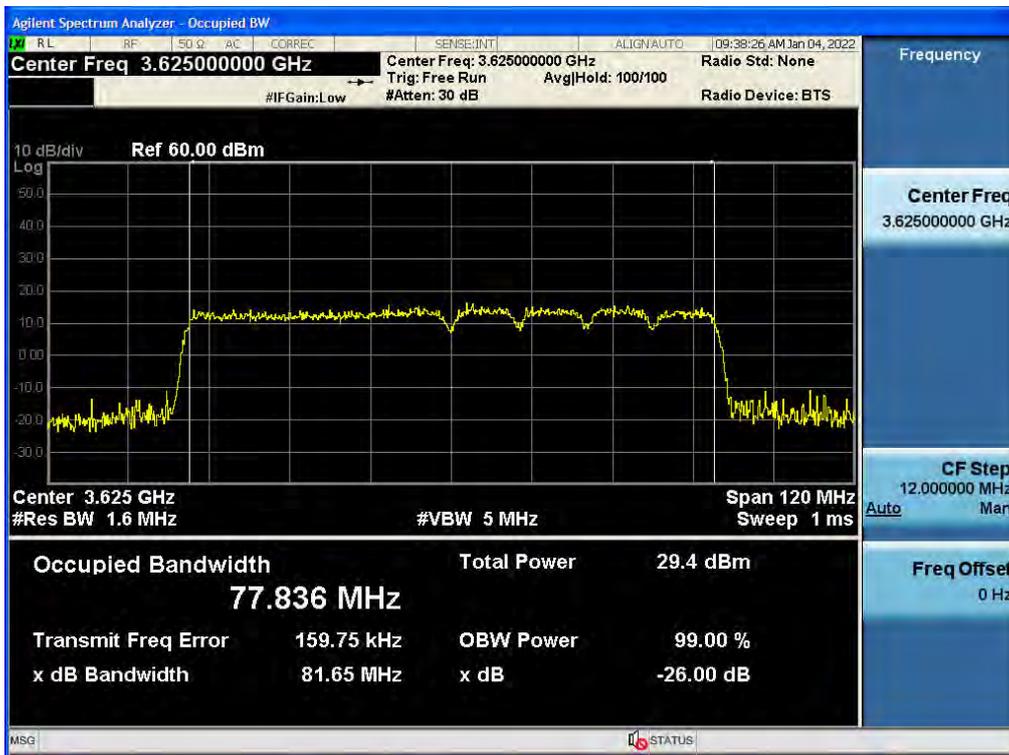
Antenna 1 / CBRS LTE(20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C)[5C] / Contiguous / QPSK / High



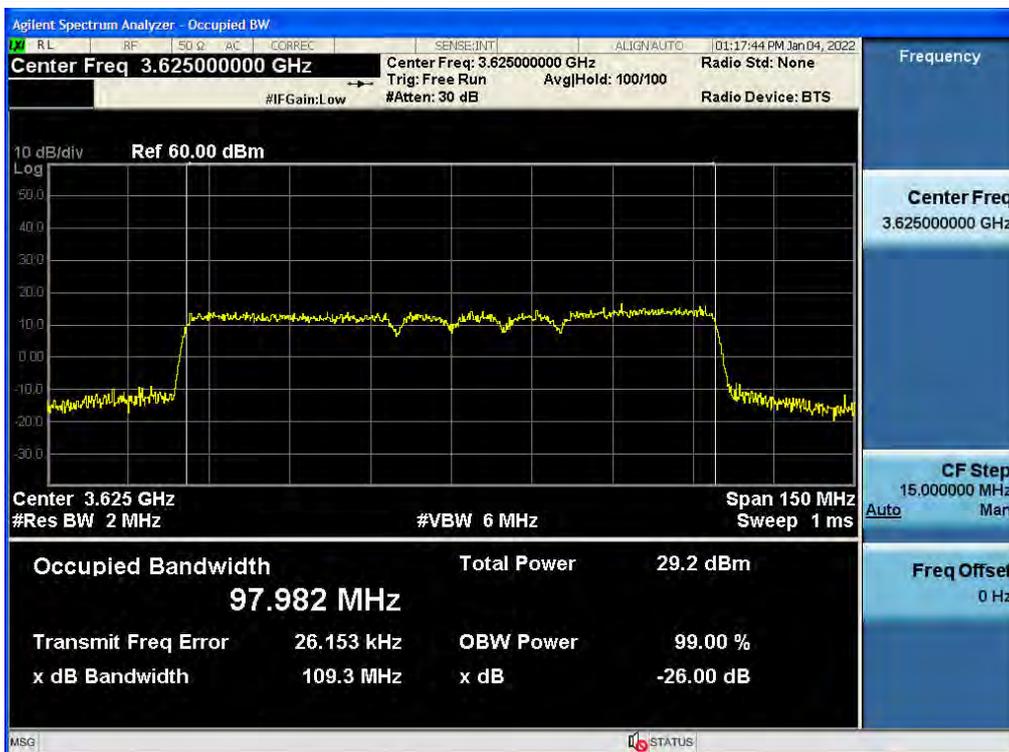
Antenna 0 / CBRS NR(10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C)[5C] / Contiguous / 256QAM / Low



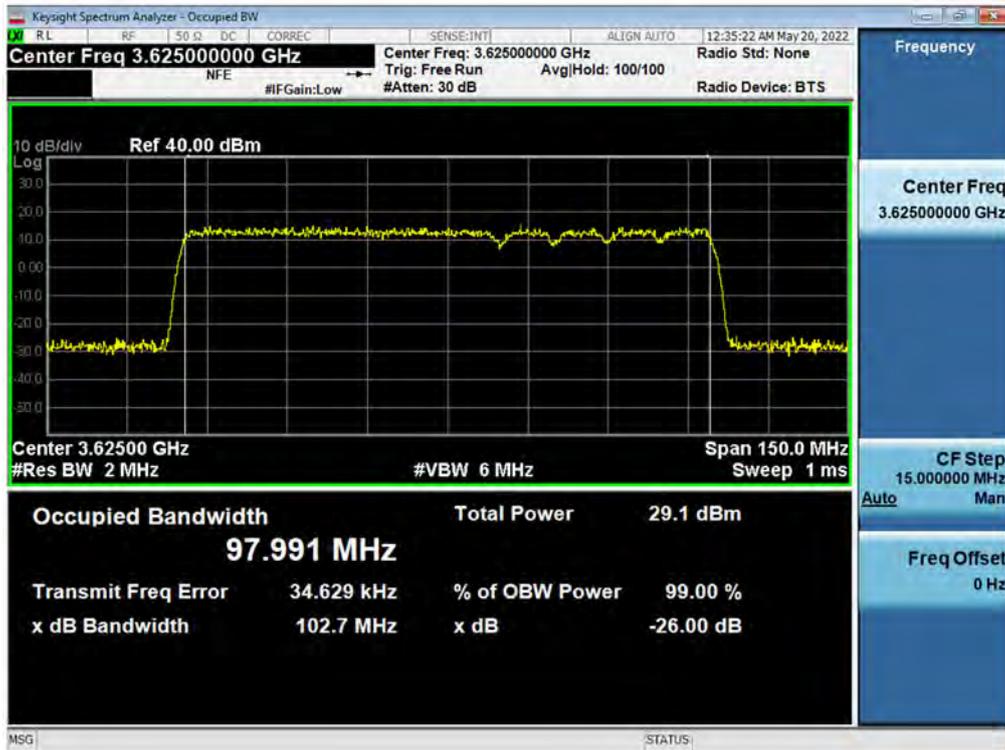
Antenna 0 / CBRS NR(40 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C)[5C] / Contiguous / 256QAM / Middle



Antenna 1 / CBRS NR(40 MHz 1C + 30 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C)[5C] / Contiguous / QPSK / Middle



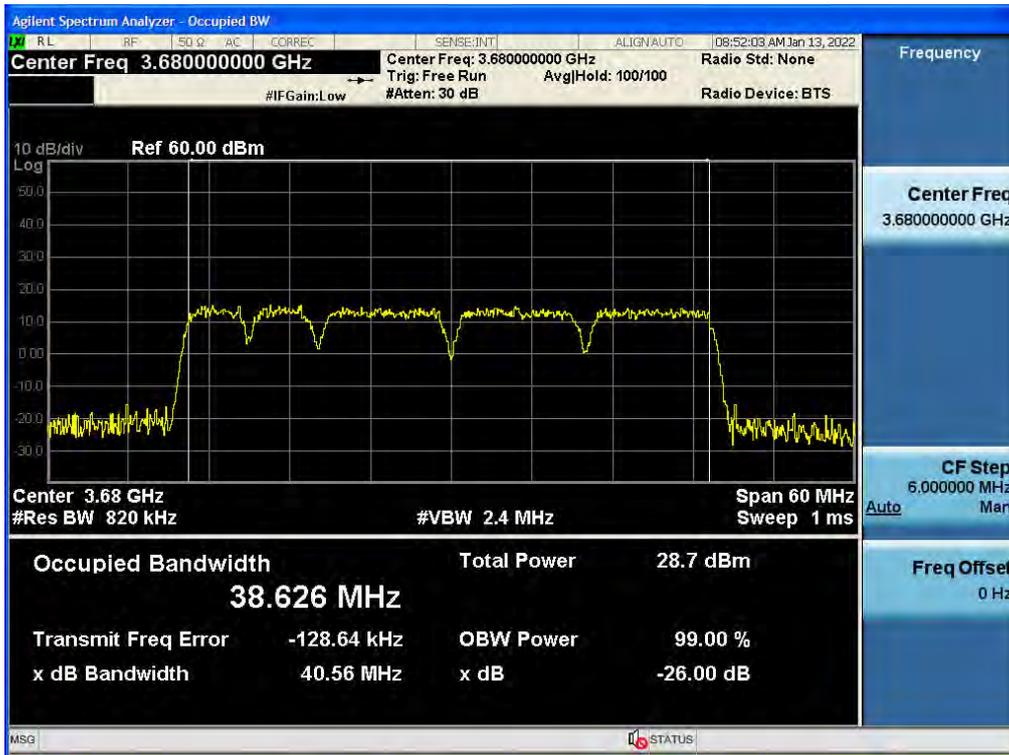
Antenna 0 / CBRS NR(60 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C) [5C] / Contiguous / QPSK / Middle



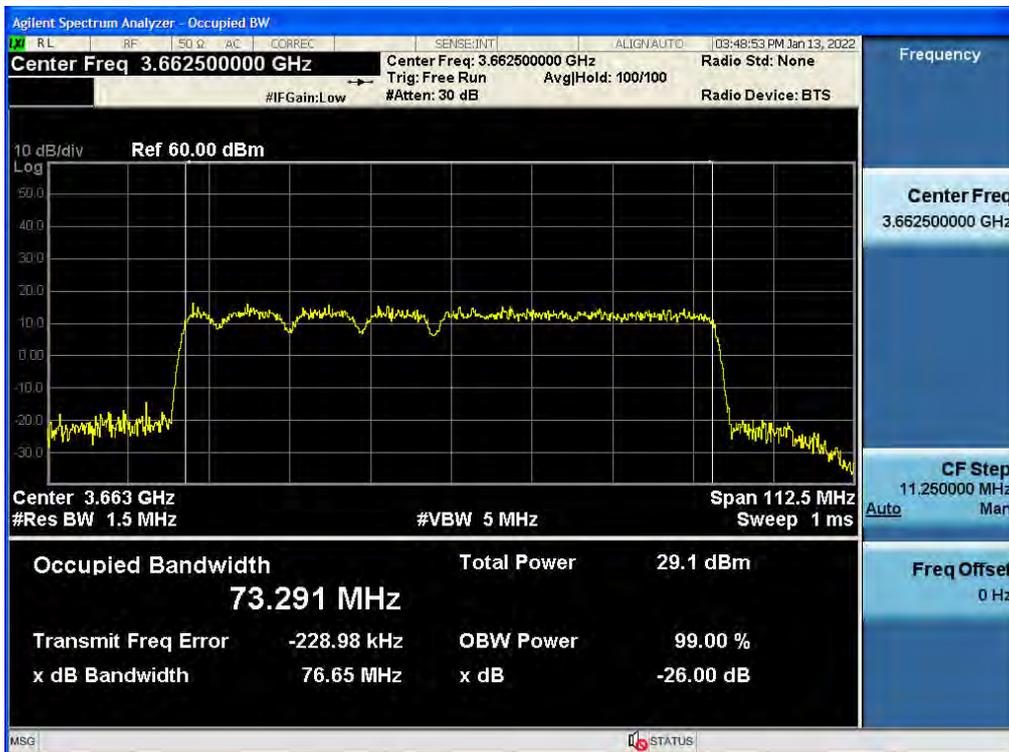
Antenna 0 / CBRS NR 60 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 10 MHz 1C [5C] / Contiguous / QPSK / High



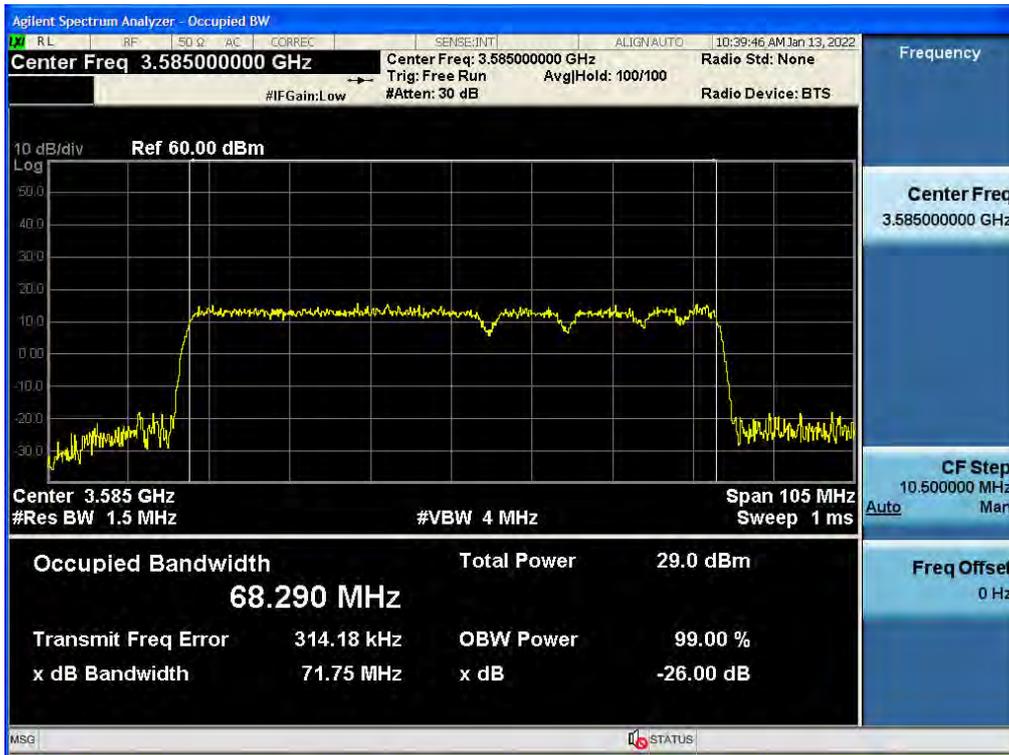
Antenna 0 / CBRS NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C [5C] / Contiguous / 256QAM / High



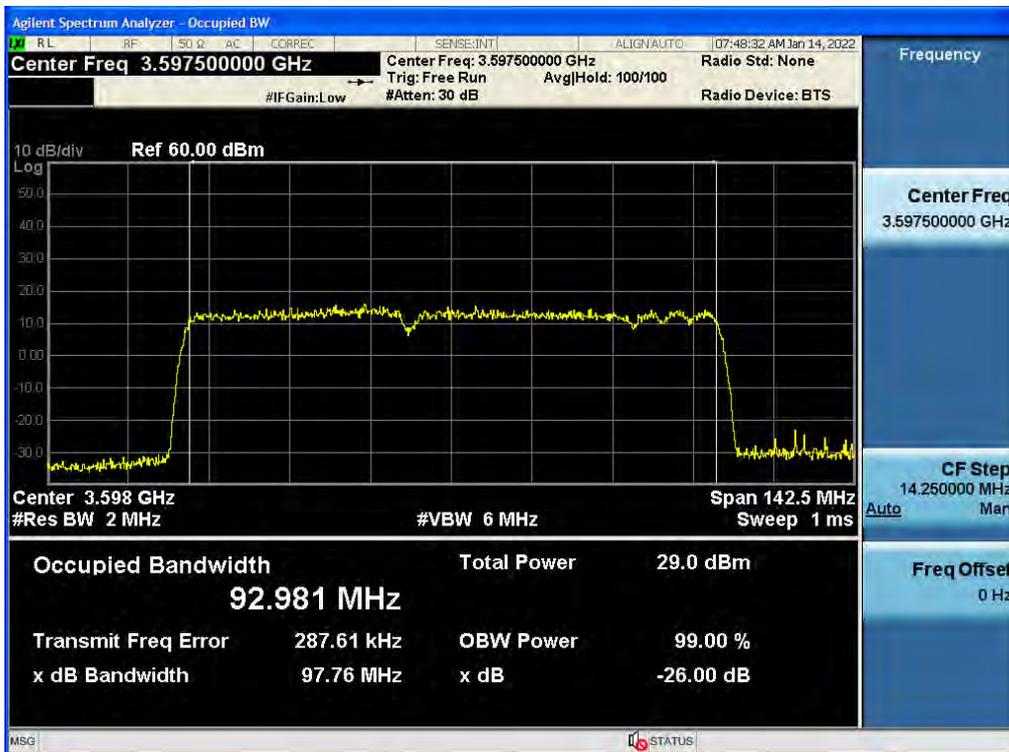
Antenna 0 / CBRS NR 40 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C [5C] / Contiguous / 256QAM / High



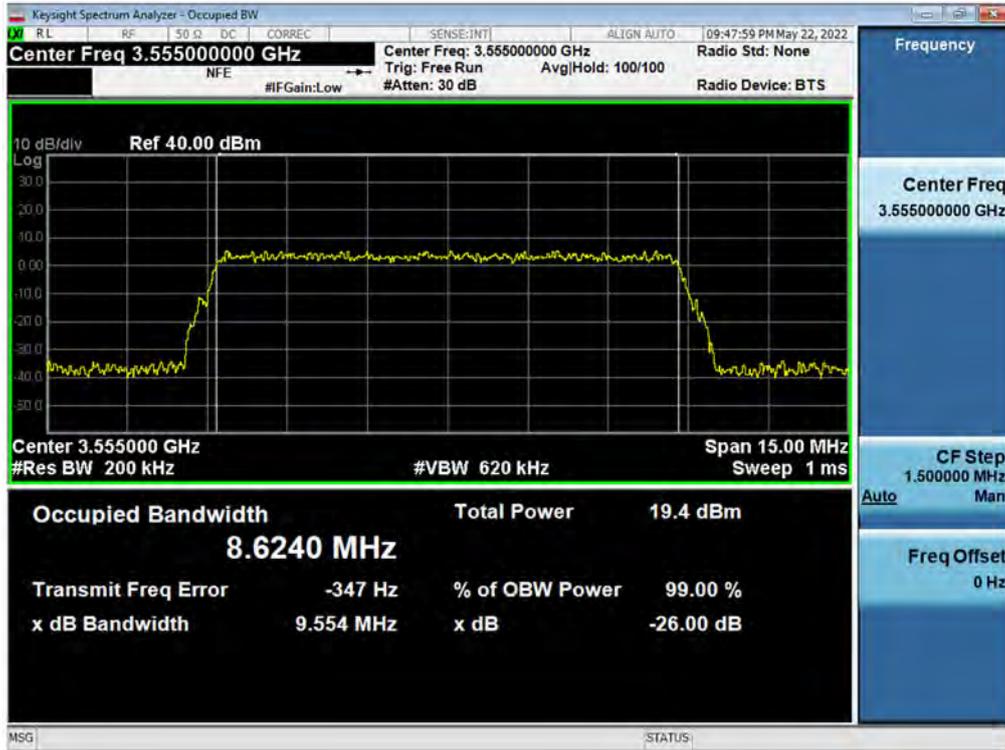
Antenna 0 / CBRS NR 40 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C [5C] / Contiguous / QPSK / Low



Antenna 1 / CBRS NR 40 MHz 1C + NR 40 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C [5C] / Contiguous / 64QAM / Low



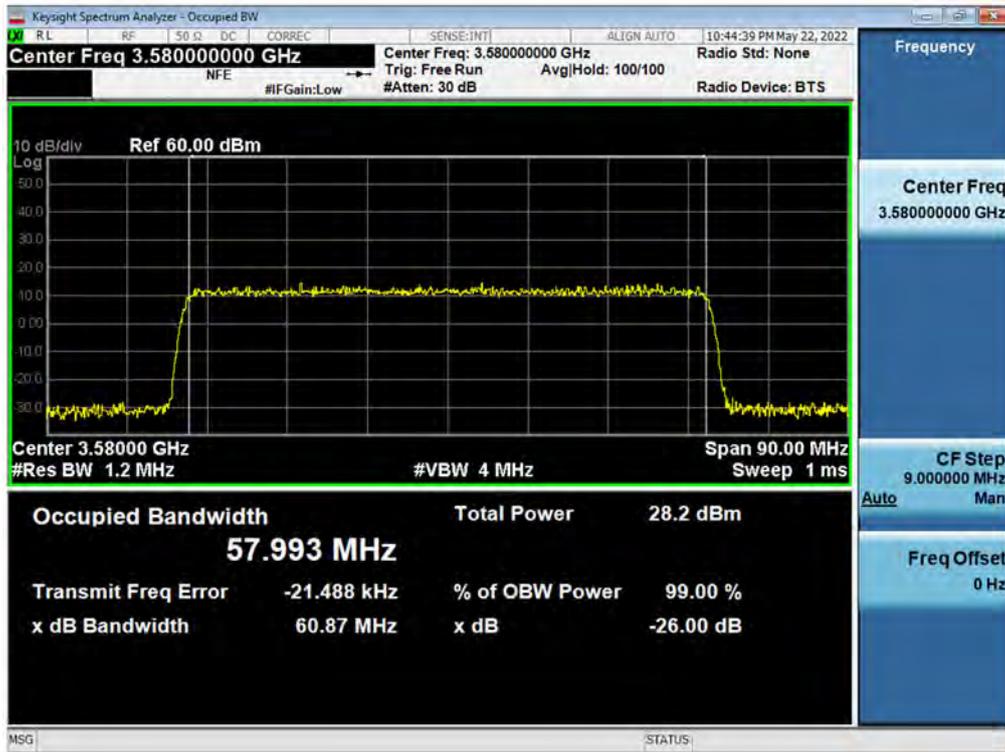
Antenna 0 / CBRS NR(10 MHz 1C + 60 MHz 1C)[2C]/ NR 10 MHz 1C / Non-Contiguous / 64QAM / Low



Antenna 0 / CBRS NR(10 MHz 1C + 60 MHz 1C)[2C] / NR 60 MHz 1C / Non-Contiguous / 64QAM / High



Antenna 1 / CBRS NR(60 MHz 1C + 10 MHz 1C)[2C]/ NR 60 MHz 1C / Non-Contiguous / QPSK / Low



Antenna 1 / CBRS NR(60 MHz 1C + 10 MHz 1C)[2C] / NR 10 MHz 1C / Non-Contiguous / QPSK / High



Antenna 0 / CBRS NR(10 MHz 1C + 80 MHz 1C)[2C]/ NR 10 MHz 1C / Non-Contiguous / QPSK / Low



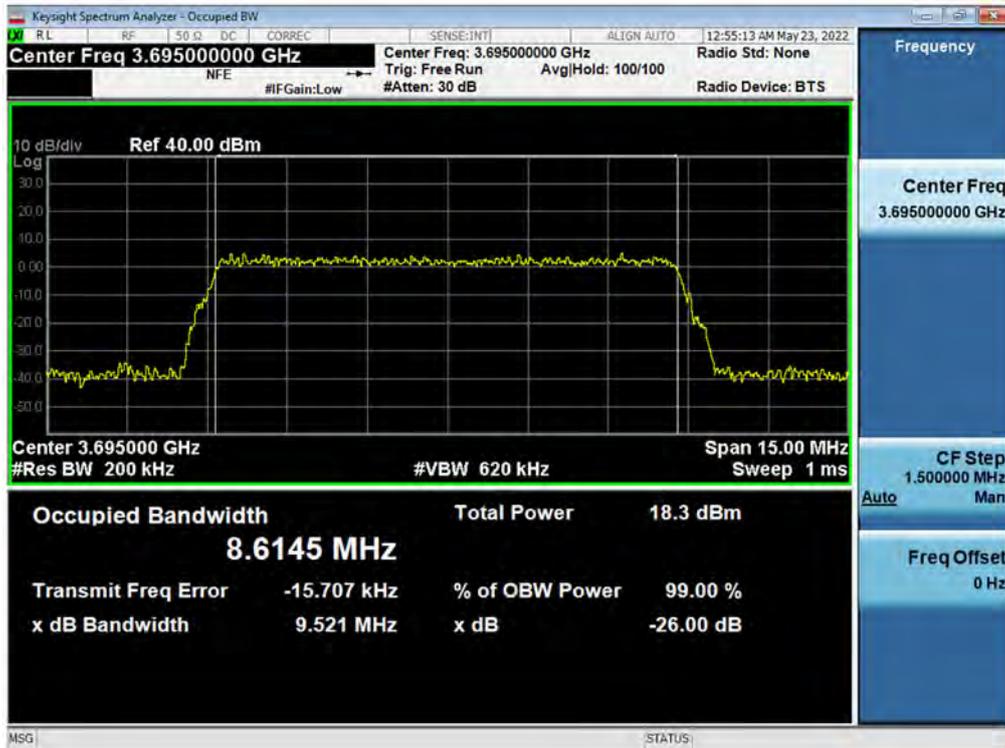
Antenna 0 / CBRS NR(10 MHz 1C + 80 MHz 1C)[2C] / NR 80 MHz 1C / Non-Contiguous / QPSK / High



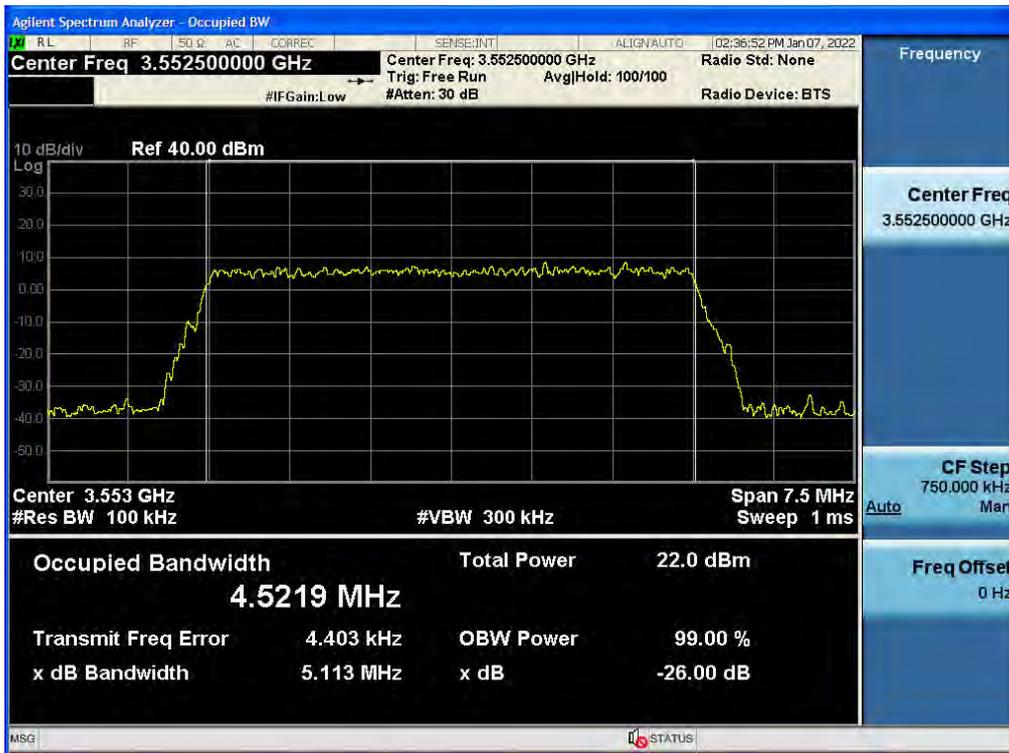
Antenna 0 / CBRS NR(80 MHz 1C + 10 MHz 1C)[2C]/ NR 80 MHz 1C / Non-Contiguous / 16QAM / Low



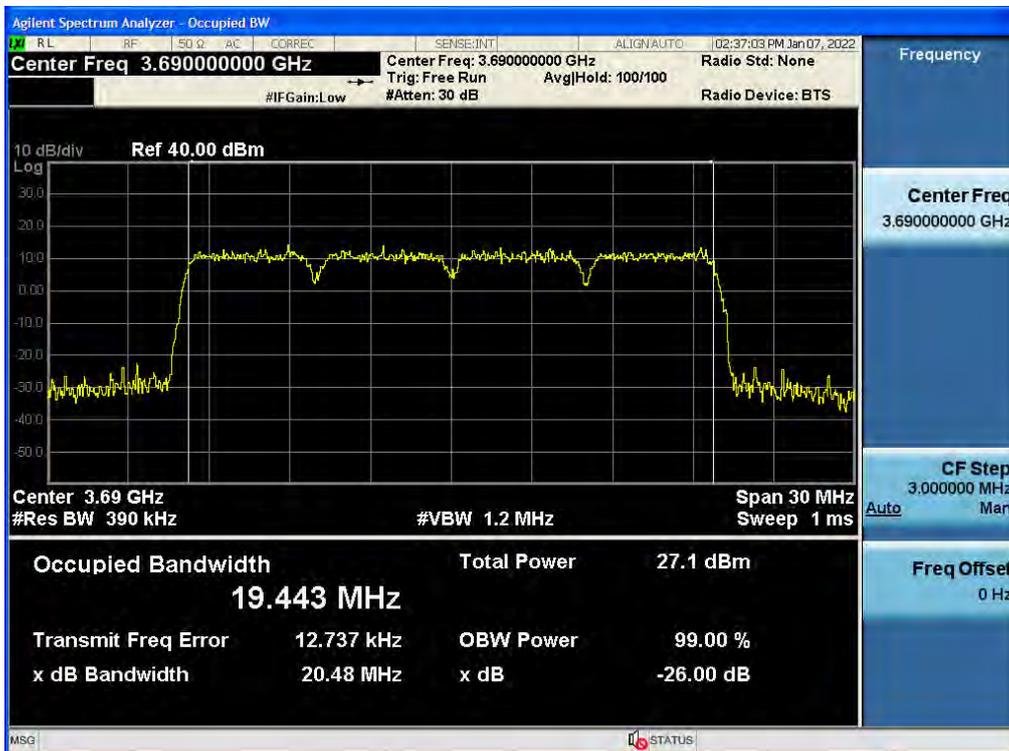
Antenna 0 / CBRS NR(80 MHz 1C + 10 MHz 1C)[2C] / NR 10 MHz 1C / Non-Contiguous / 16QAM / High



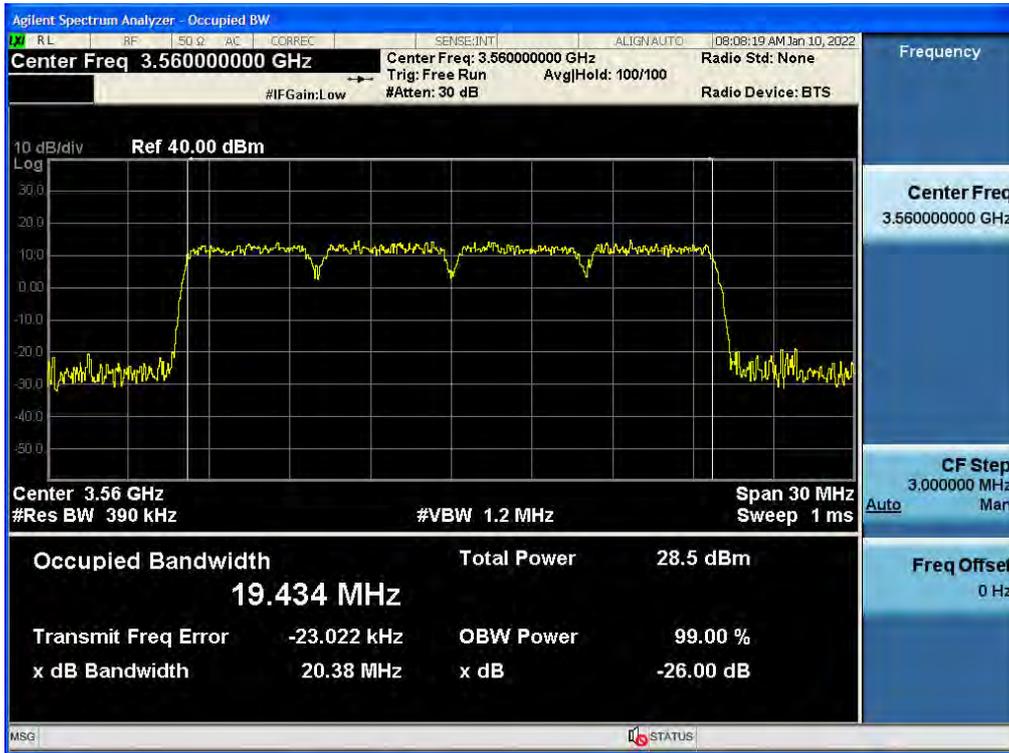
Antenna 1 / CBRS LTE[5 MHz 1C + (5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C)][5C(1C+4C)] / 5 MHz 1C / Non-Contiguous / 16QAM / Low



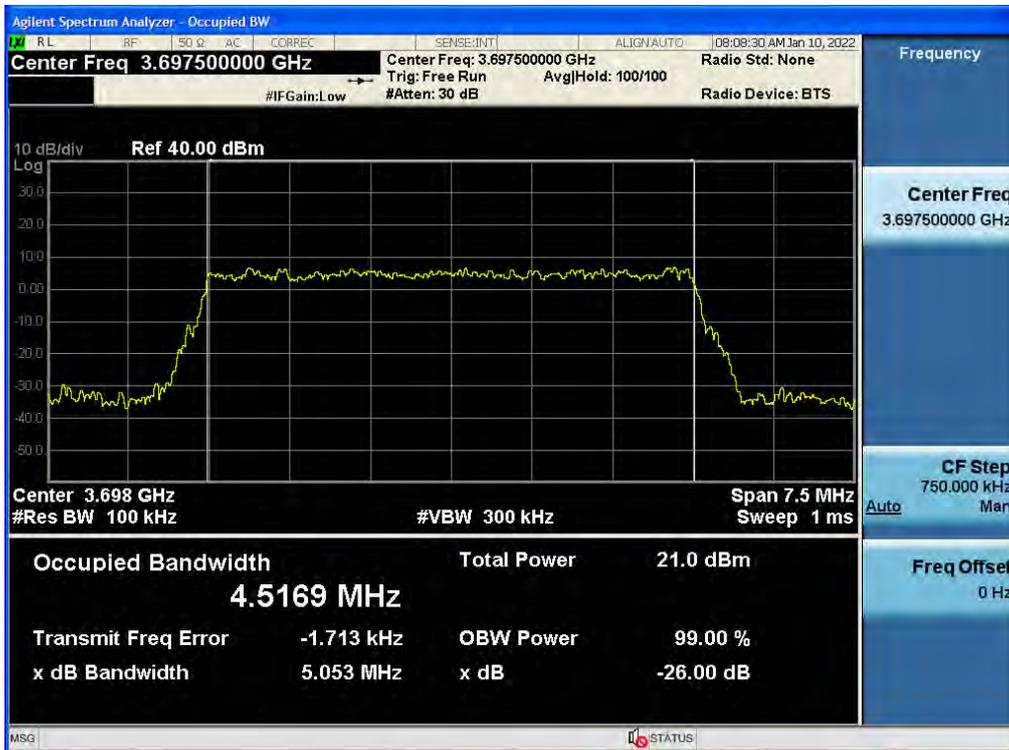
Antenna 1 / CBRS LTE[5 MHz 1C + (5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C)][5C(1C+4C)] / 5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C / Non-Contiguous / 16QAM / High



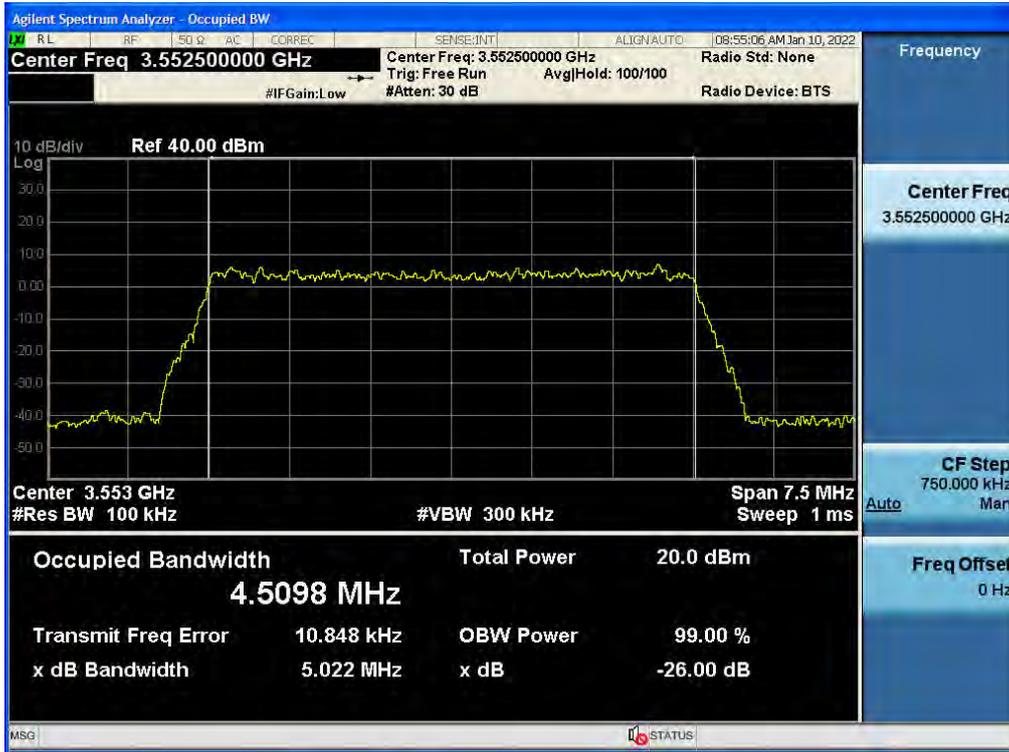
Antenna 0 / CBRS LTE[(5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C) + 5 MHz 1C][5C(4C+1C)]
/ 5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C / Non-Contiguous/ QPSK / Low



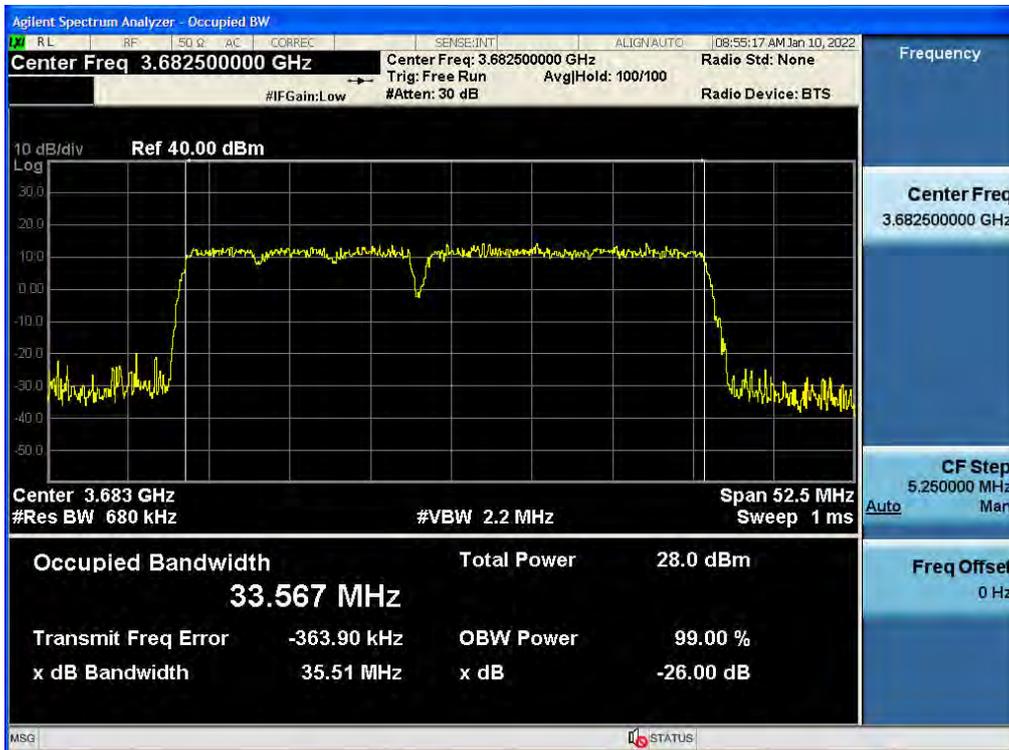
Antenna 0 / CBRS LTE[(5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C) + 5 MHz 1C][5C(4C+1C)]
/ 5 MHz 1C / Non-Contiguous/ QPSK / High



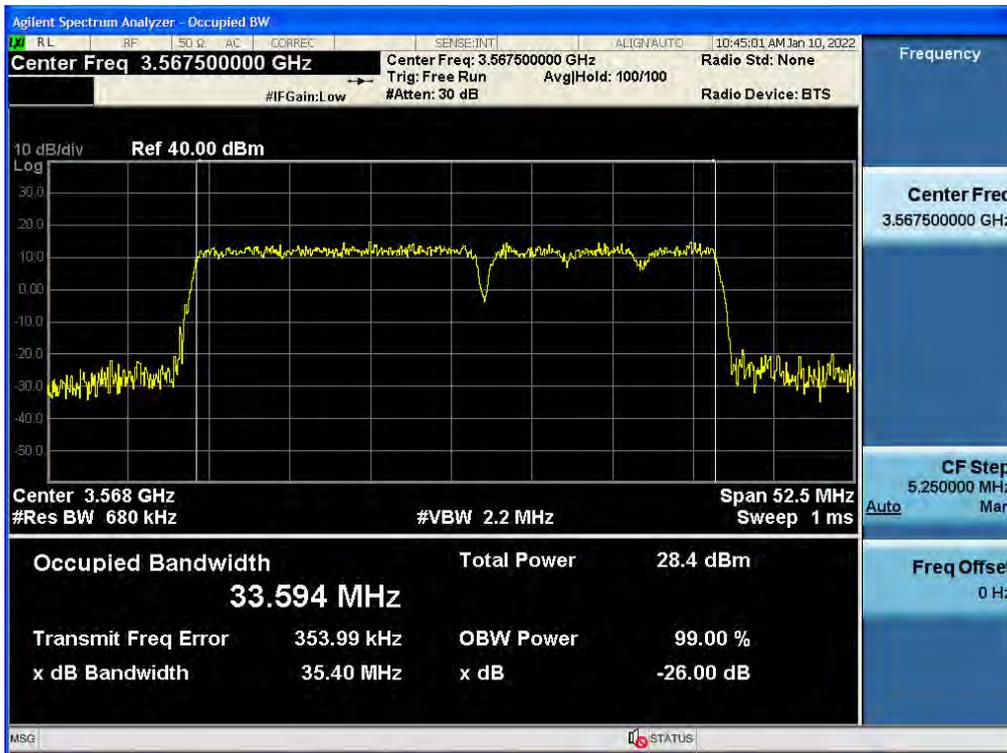
Antenna 1 / CBRS LTE[5 MHz 1C + (5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 20 MHz 1C)][5C(1C+4C)] / 5 MHz 1C / Non-Contiguous / 256QAM / Low



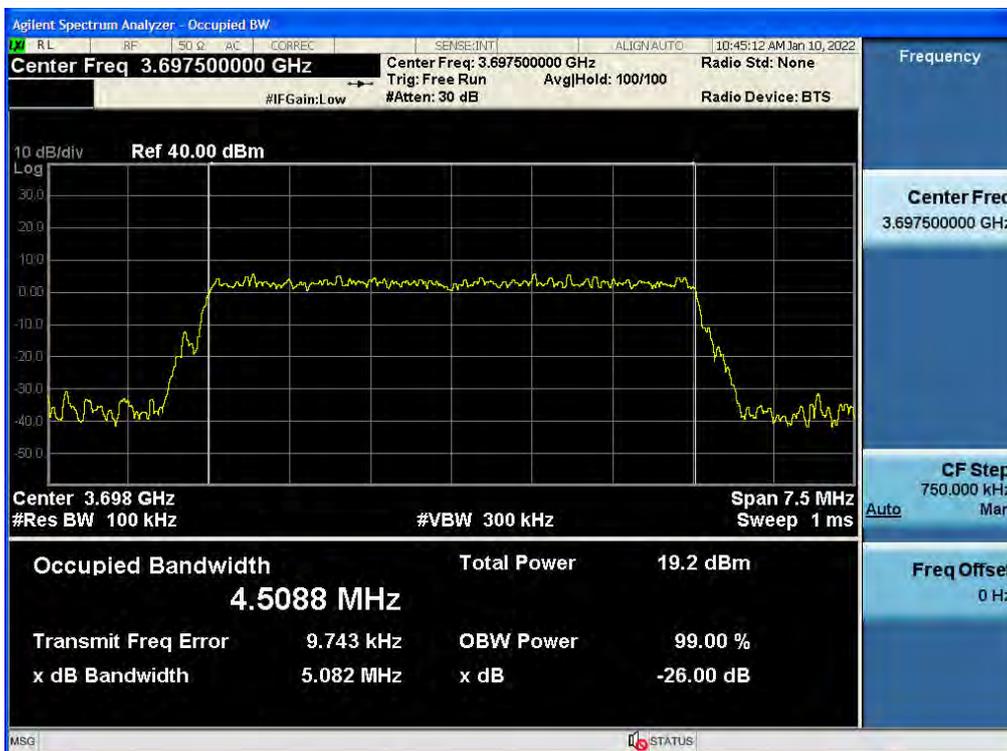
Antenna 1 / CBRS LTE[5 MHz 1C + (5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 20 MHz 1C)][5C(1C+4C)] / 5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 20 MHz 1C / Non-Contiguous / 256QAM / High



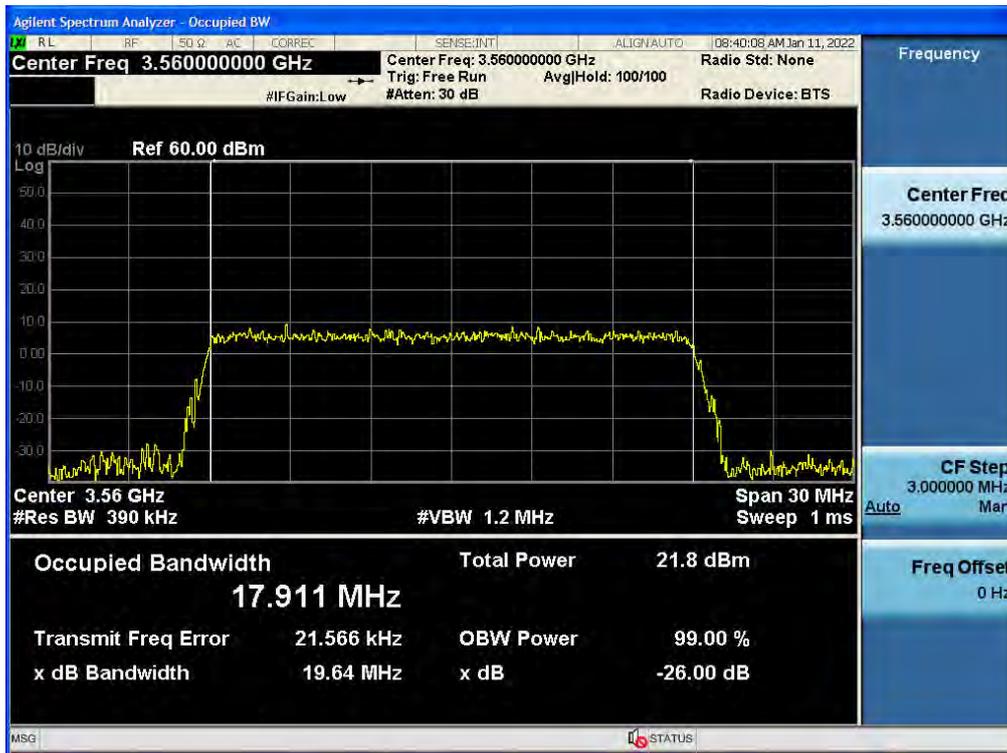
Antenna 1 / CBRS LTE[(20 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C) + 5 MHz 1C][5C(4C+1C)] / 20 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C / Non-Contiguous / QPSK / High



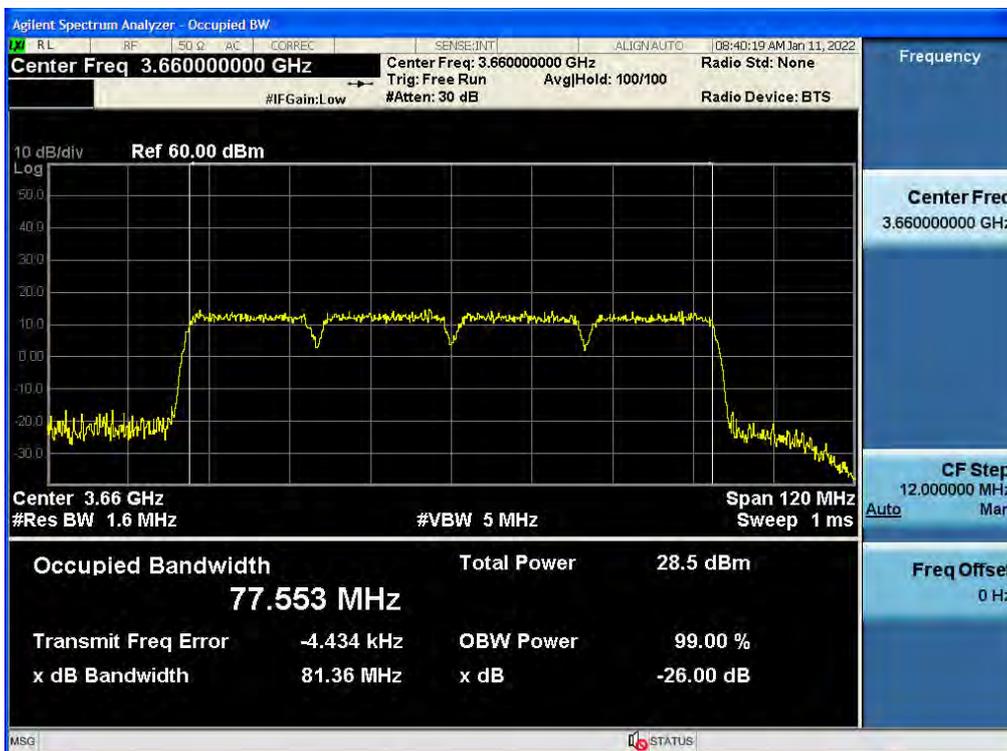
Antenna 1 / CBRS LTE[(20 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C) + 5 MHz 1C][5C(4C+1C)] / 5 MHz 1C / Non-Contiguous / QPSK / High



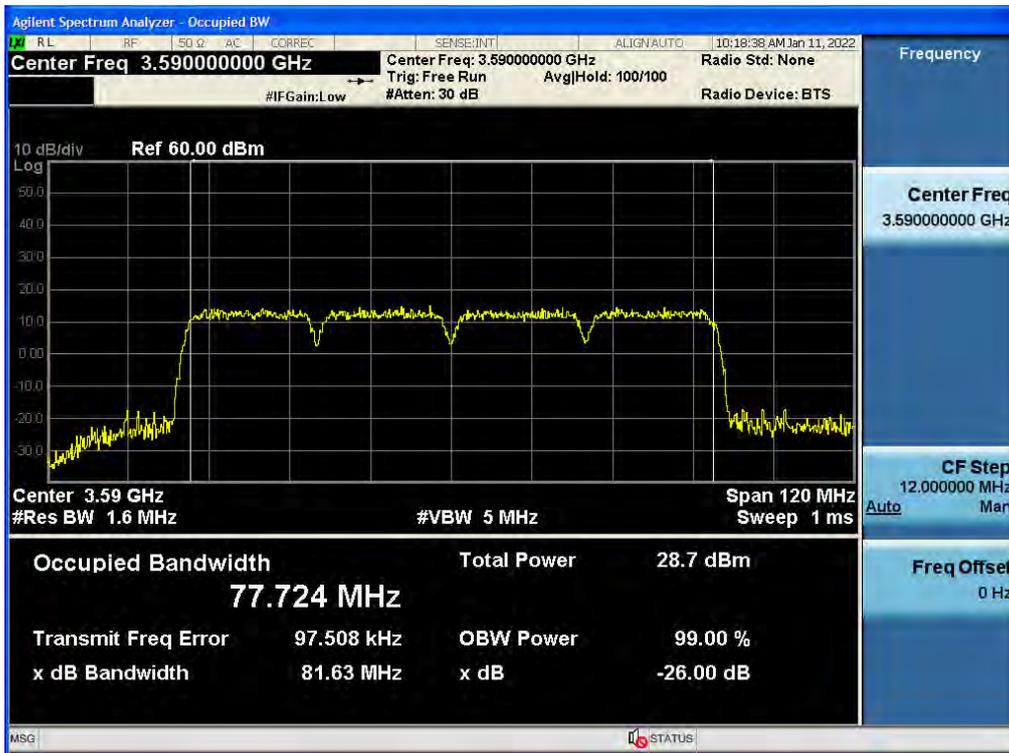
Antenna 0 / CBRS LTE[20 MHz 1C + (20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C)][5C(1C+4C)] / 20 MHz 1C / Non-Contiguous / 1024QAM / Low



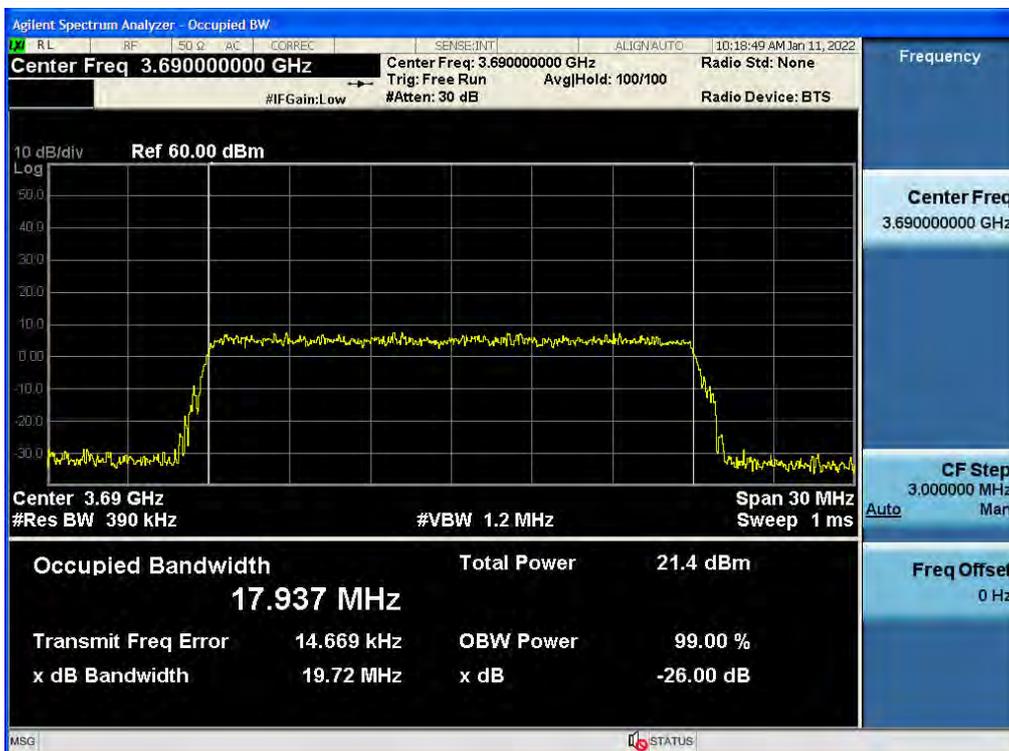
Antenna 0 / CBRS LTE[20 MHz 1C + (20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C)][5C(1C+4C)] / 20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C / Non-Contiguous / 1024QAM / High



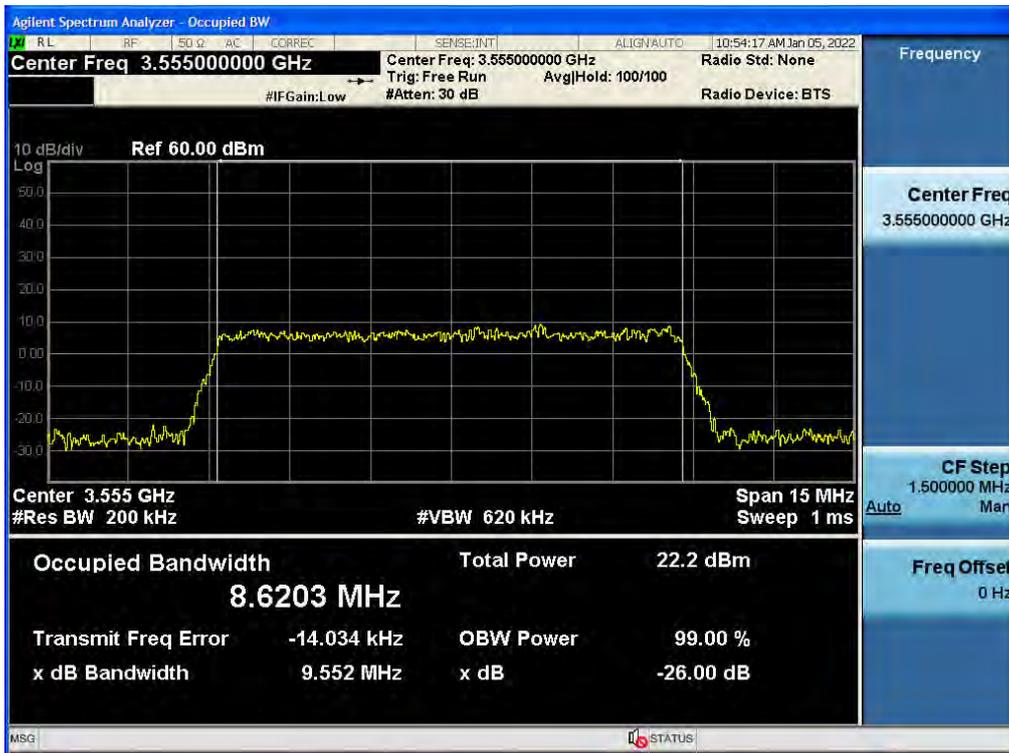
Antenna 0 / CBRS LTE[(20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C) + 20 MHz 1C][5C(4C+1C)] / 20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C / Non-Contiguous / 64QAM / Low



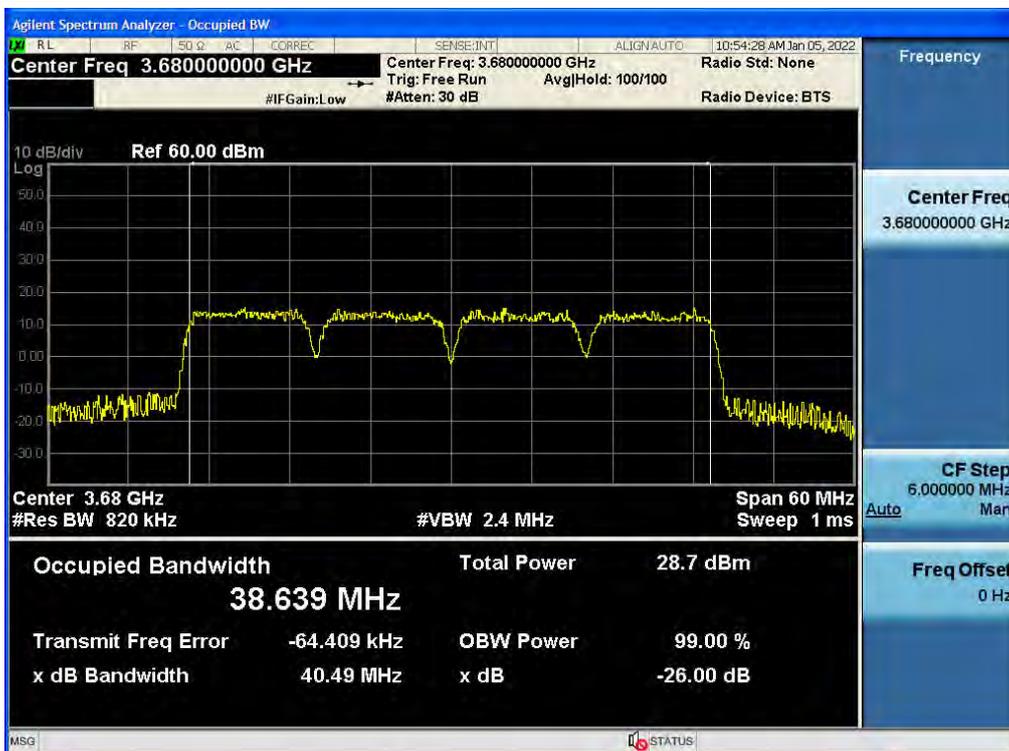
Antenna 0 / CBRS LTE[(20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C) + 20 MHz 1C][5C(4C+1C)] / 20 MHz 1C / Non-Contiguous / 64QAM / High



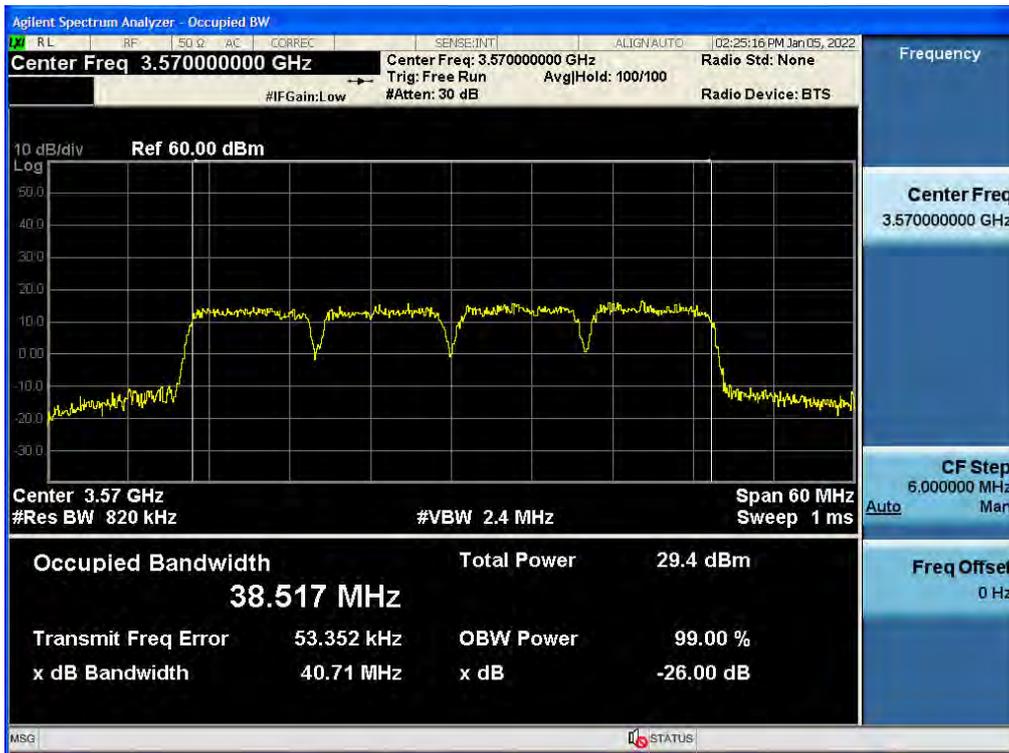
Antenna 0 / CBRS NR[10 MHz 1C + (10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C)][5C(1C+4C)] / 10 MHz 1C / Non-Contiguous / 64QAM / Low



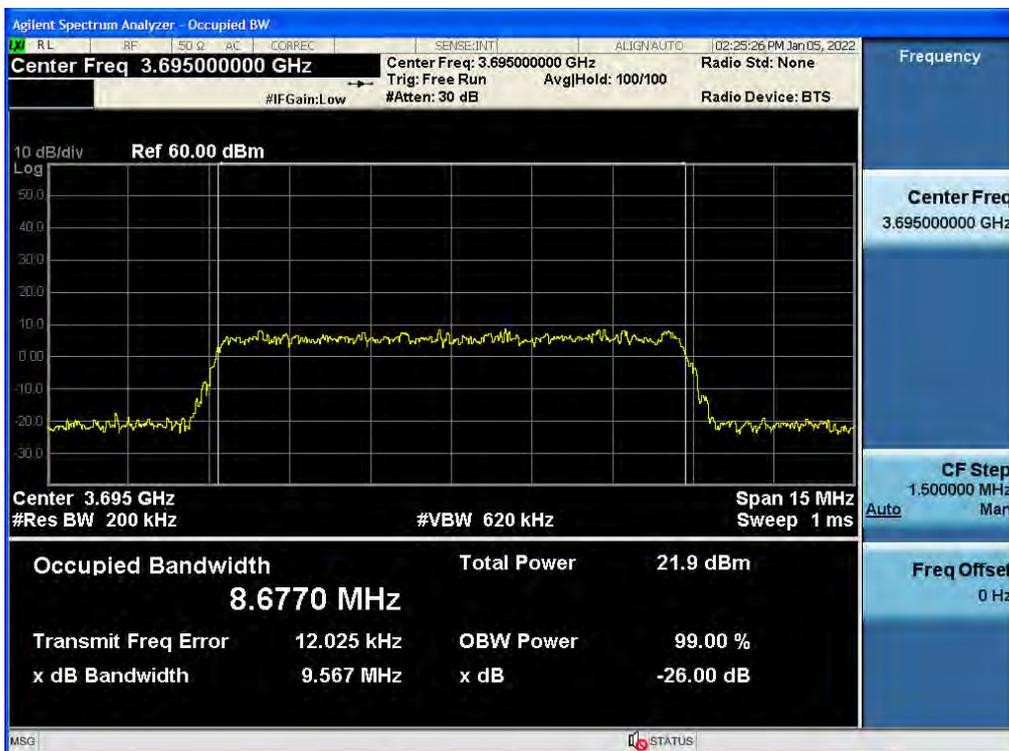
Antenna 0 / CBRS NR[10 MHz 1C + (10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C)][5C(1C+4C)] / 10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C / Non-Contiguous / 64QAM / High



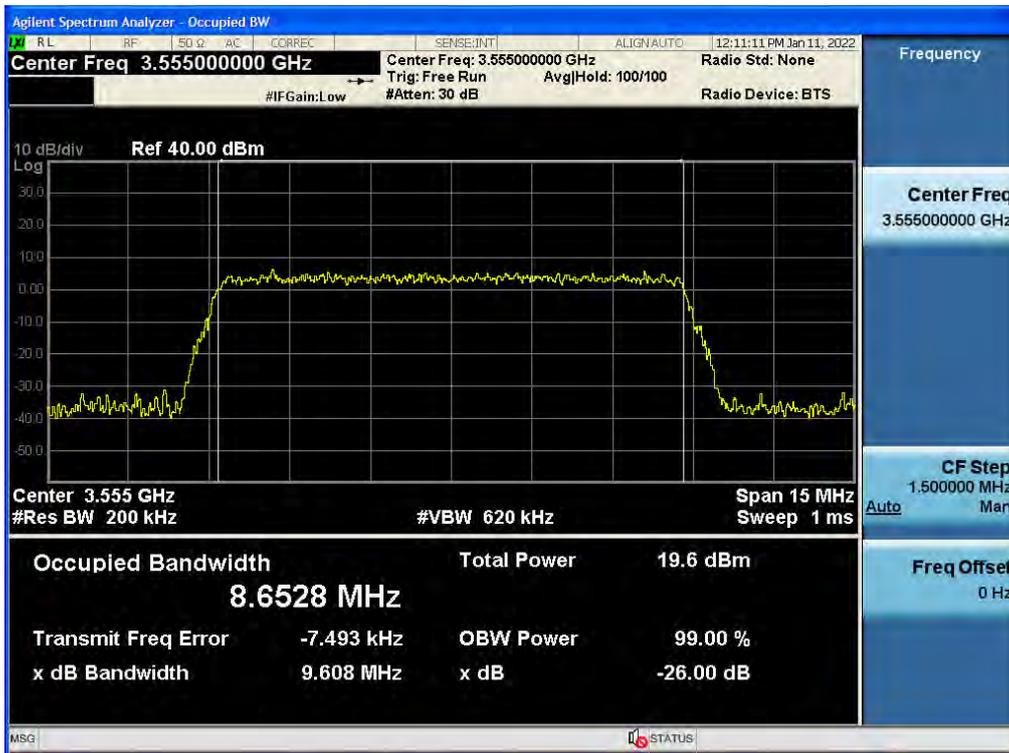
Antenna 1 / CBRS NR[(10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C) + 10 MHz 1C][5C(4C+1C)] / 10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C / Non-Contiguous / QPSK / Low



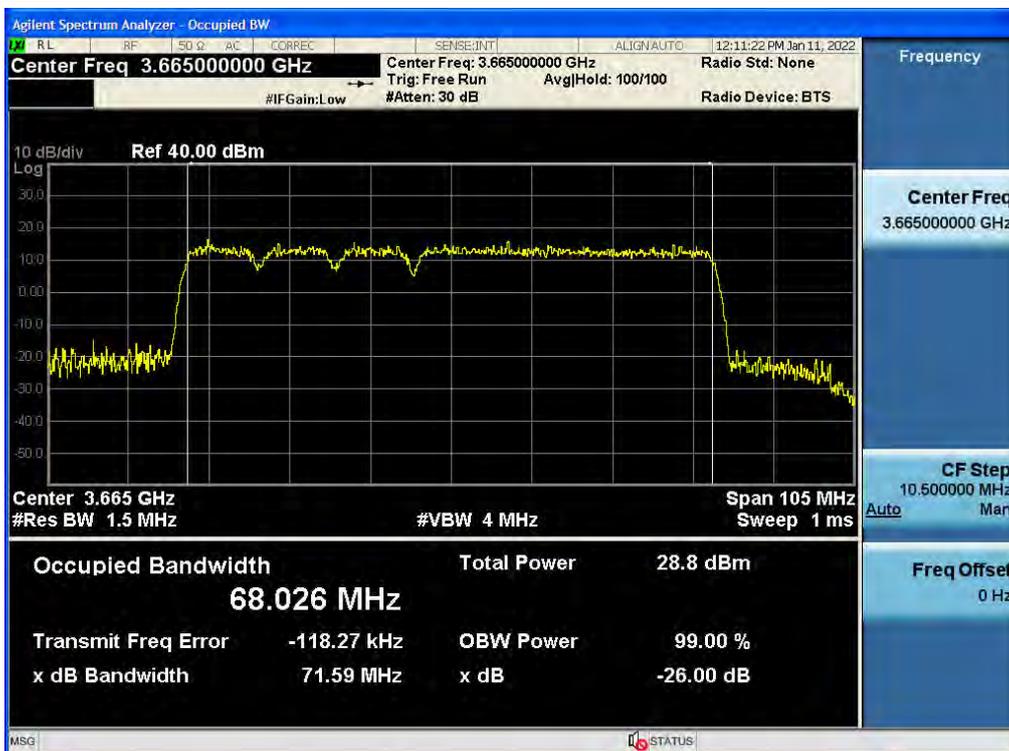
Antenna 1 / CBRS NR[(10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C) + 10 MHz 1C][5C(4C+1C)] / 10 MHz 1C / Non-Contiguous / QPSK / High



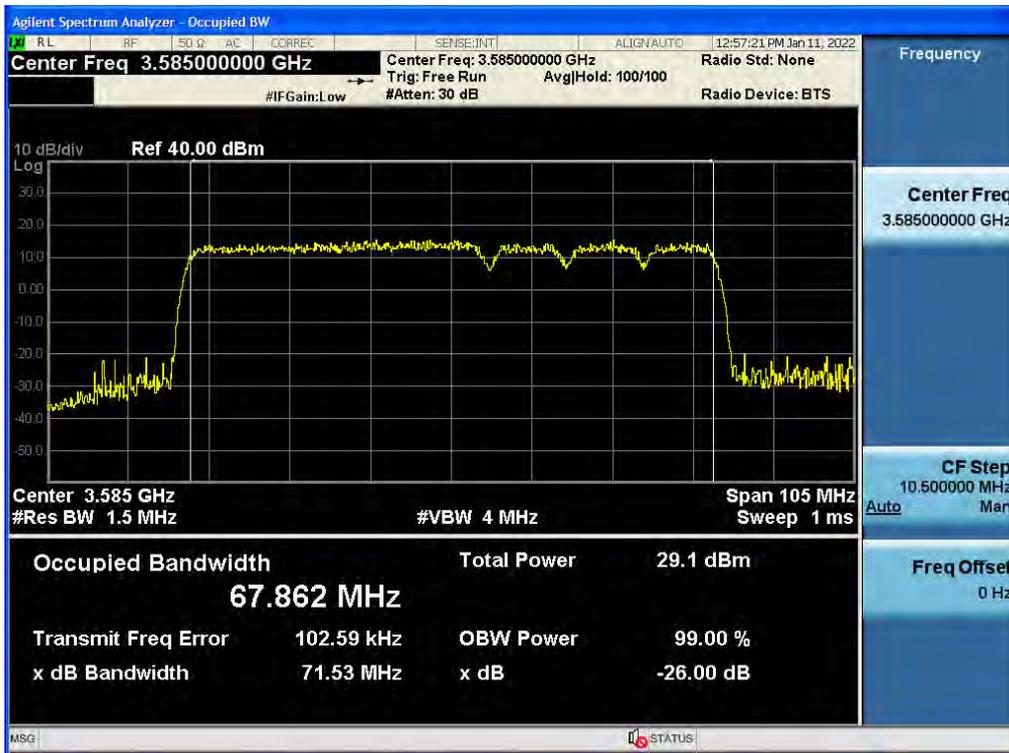
Antenna 0 / CBRS NR[10 MHz 1C + (10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 40 MHz 1C)][5C(1C+4C)] / 10 MHz 1C / Non-Contiguous / 64QAM / Low



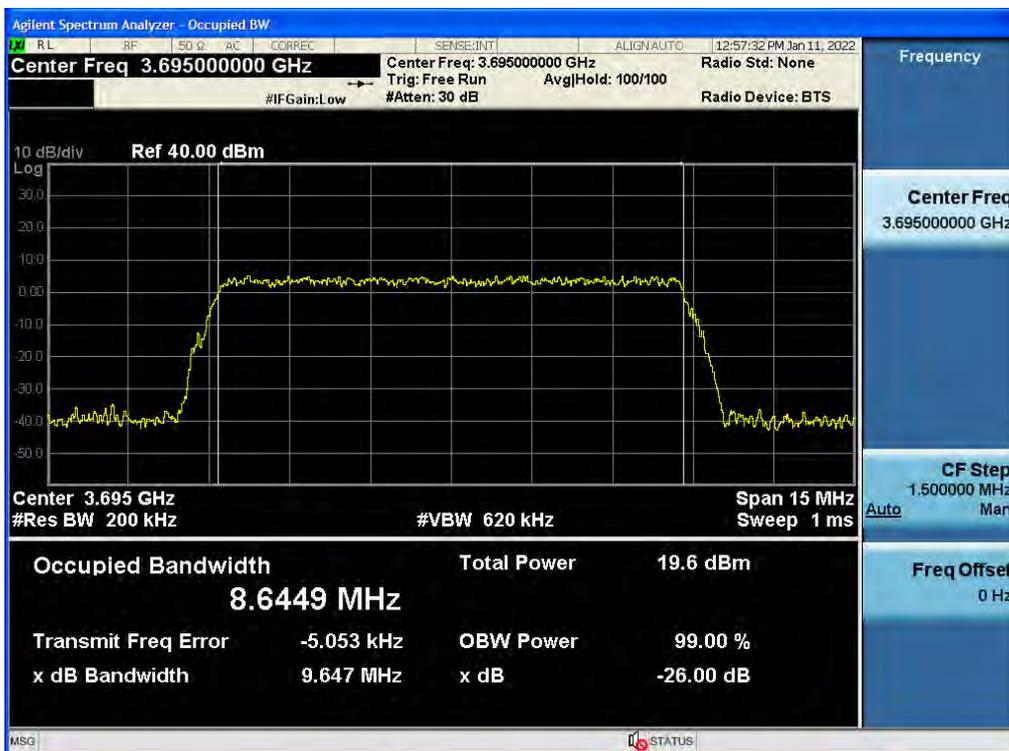
Antenna 0 / CBRS NR[10 MHz 1C + (10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 40 MHz 1C)][5C(1C+4C)] / 10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 40 MHz 1C / Non-Contiguous / 64QAM / High



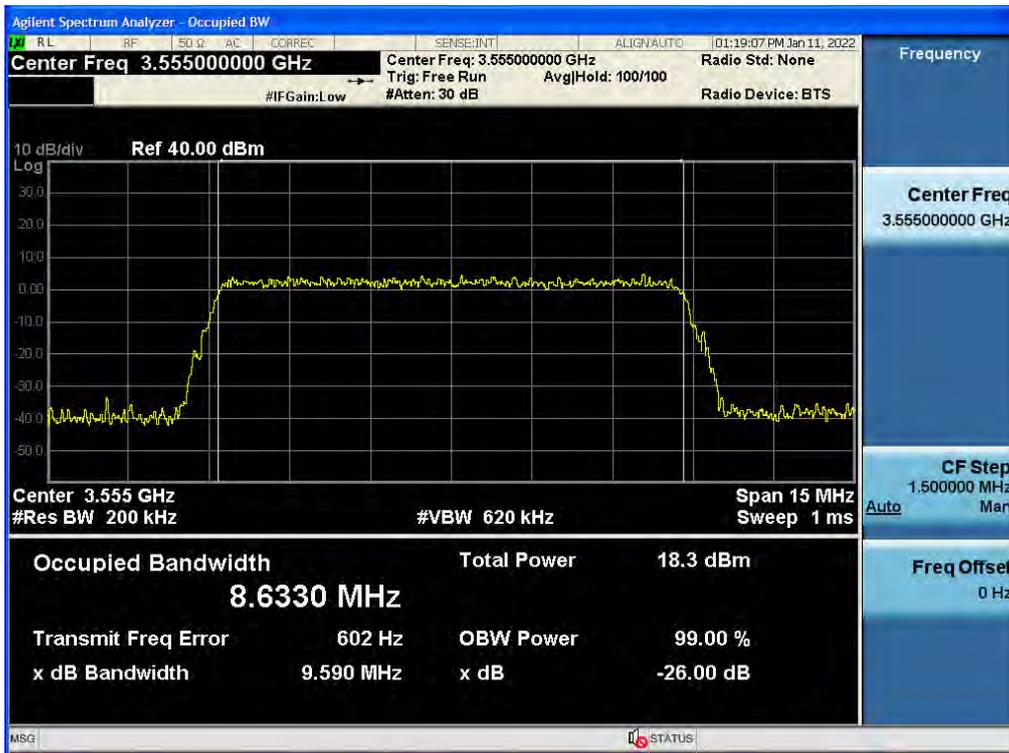
Antenna 1 / CBRS NR[(40 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C) + 10 MHz 1C][5C(4C+1C)]
/ 40 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C / Non-Contiguous / 256QAM/ Low



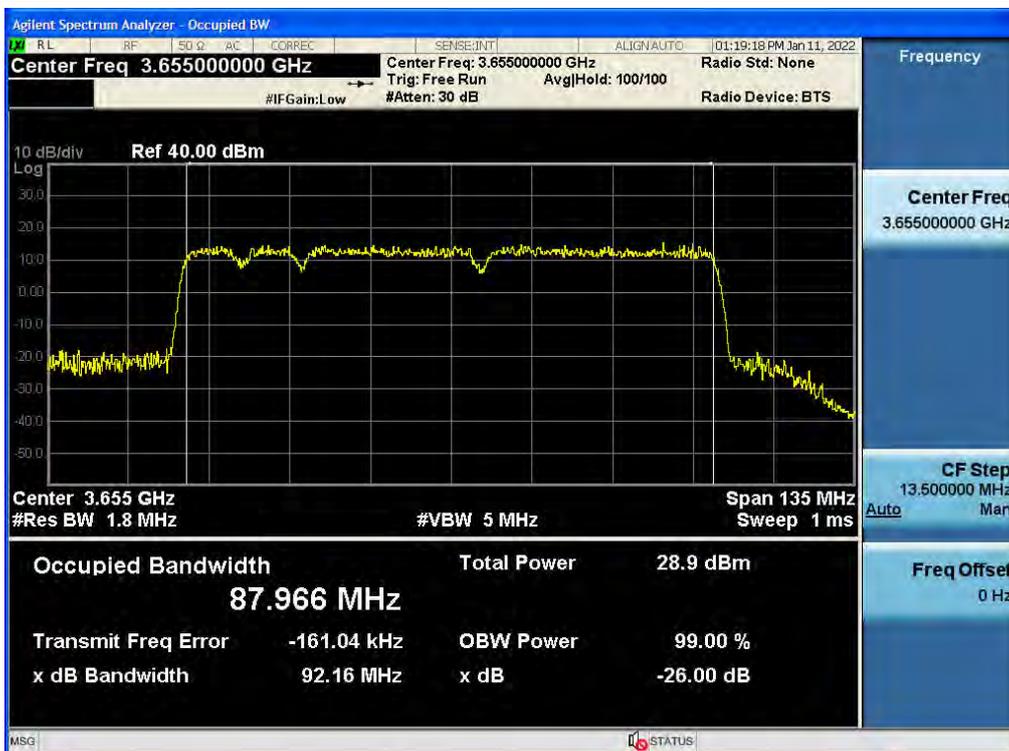
Antenna 1 / CBRS NR[(40 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C) + 10 MHz 1C][5C(4C+1C)] / 10 MHz 1C
/ Non-Contiguous / 256QAM / High



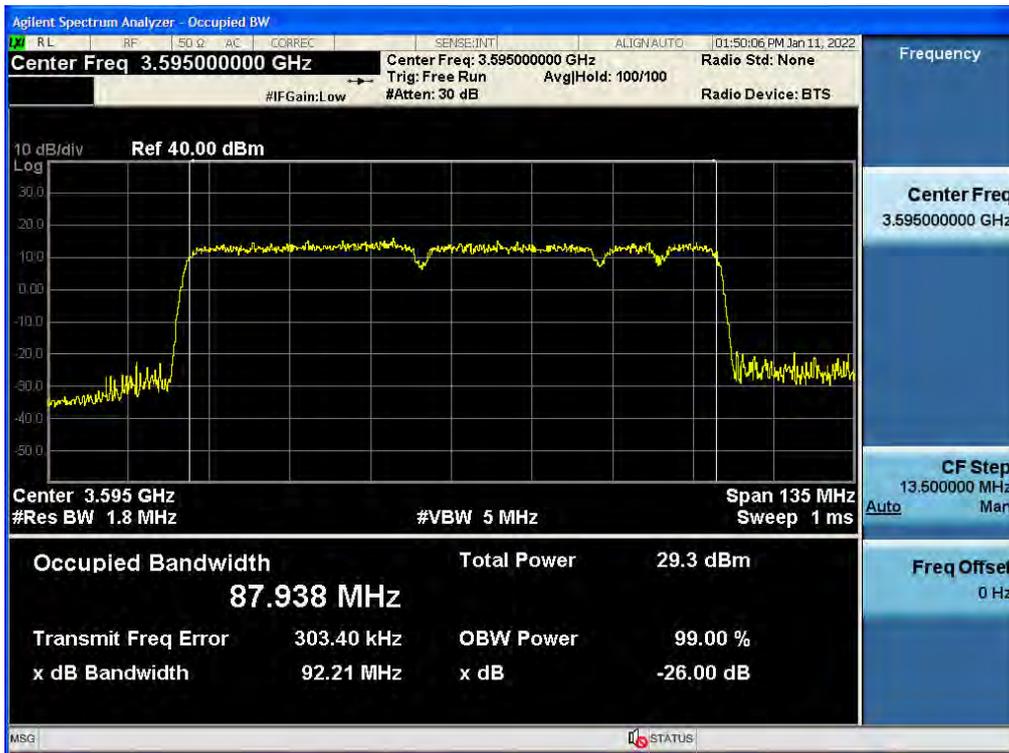
Antenna 0 / CBRS NR[10 MHz 1C + (10 MHz 1C + 10 MHz 1C + 30 MHz 1C + 40 MHz 1C)][5C(1C+4C)] / 10 MHz 1C / Non-Contiguous / QPSK / Low



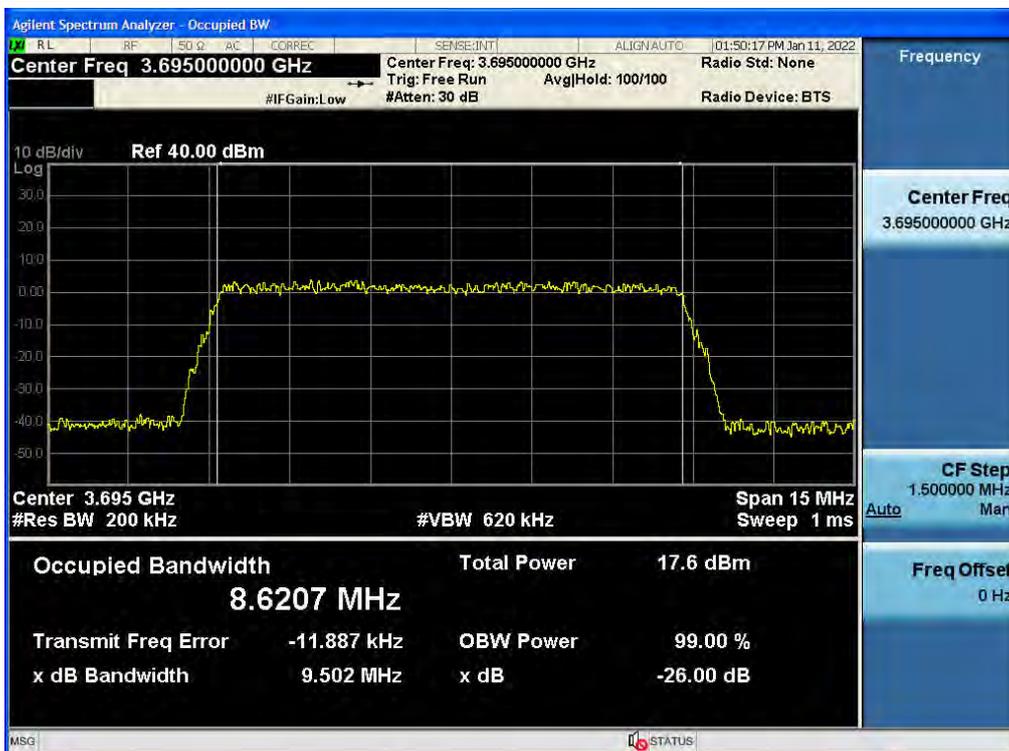
Antenna 0 / CBRS NR[10 MHz 1C + (10 MHz 1C + 10 MHz 1C + 30 MHz 1C + 40 MHz 1C)][5C(1C+4C)] / 10 MHz 1C + 10 MHz 1C + 30 MHz 1C + 40 MHz 1C / Non-Contiguous / QPSK / High



Antenna 1 / CBRS NR[(40 MHz 1C + 30 MHz 1C + 10 MHz 1C + 10 MHz 1C) + 10 MHz 1C][5C(4C+1C)] / 40 MHz 1C + 30 MHz 1C + 10 MHz 1C + 10 MHz 1C / Non-Contiguous / QPSK / Low



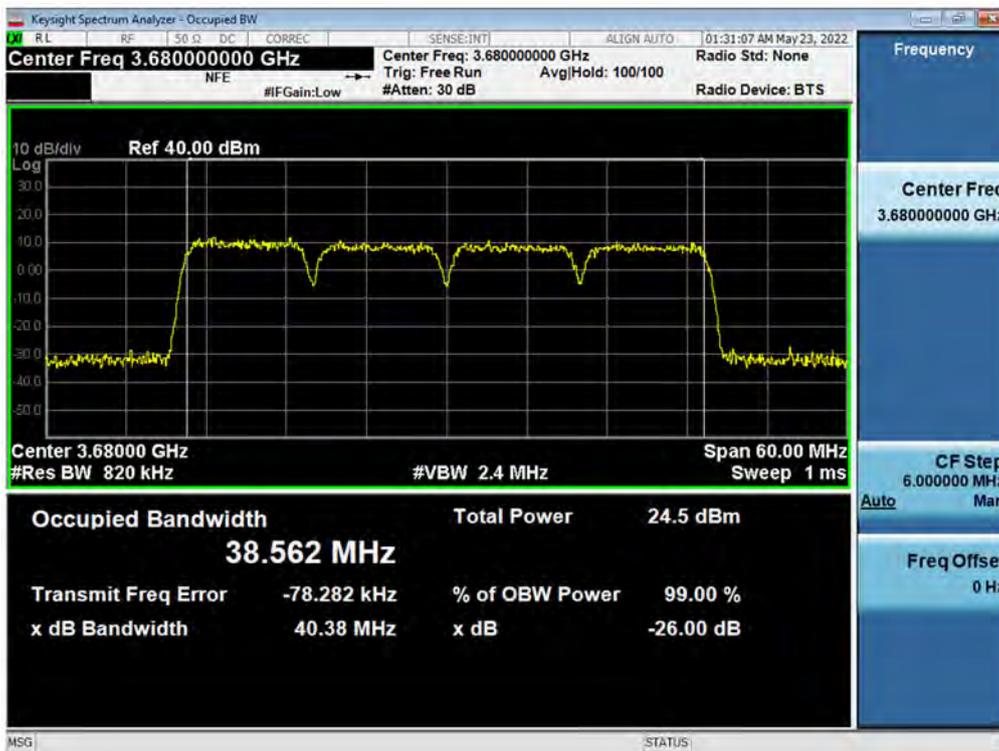
Antenna 1 / CBRS NR[(40 MHz 1C + 30 MHz 1C + 10 MHz 1C + 10 MHz 1C) + 10 MHz 1C][5C(4C+1C)] / 10 MHz 1C / Non-Contiguous / QPSK / High



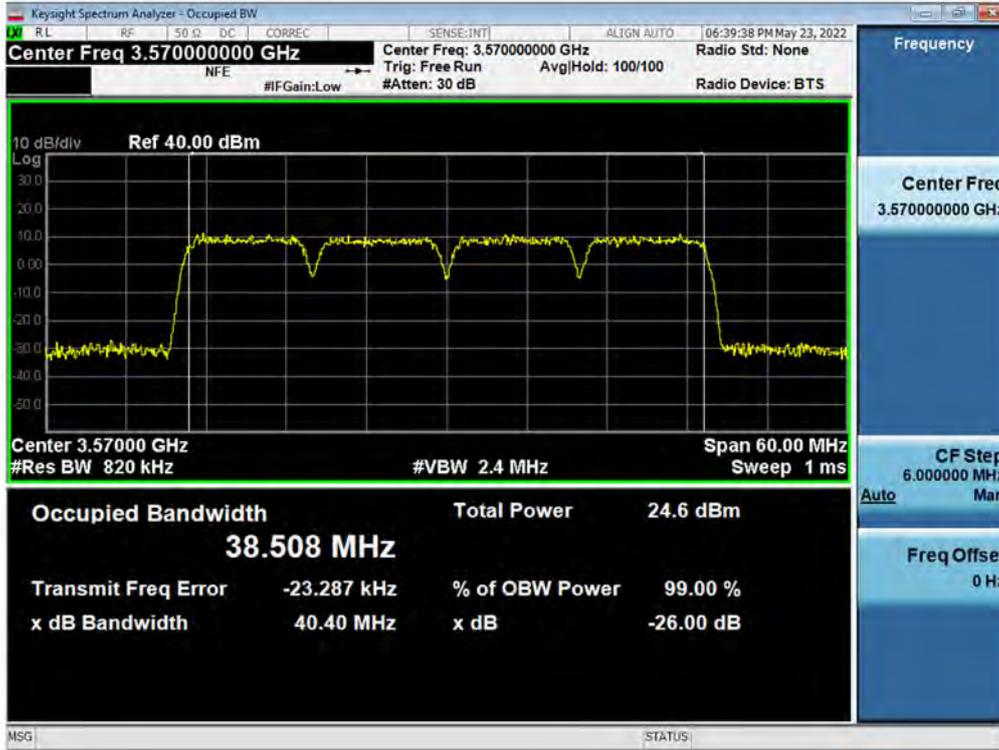
Antenna 1 / CBRS NR[60 MHz 1C + (10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C)][5C(1C+4C)]
/ NR 60 MHz 1C / Non-Contiguous / 16QAM / Low



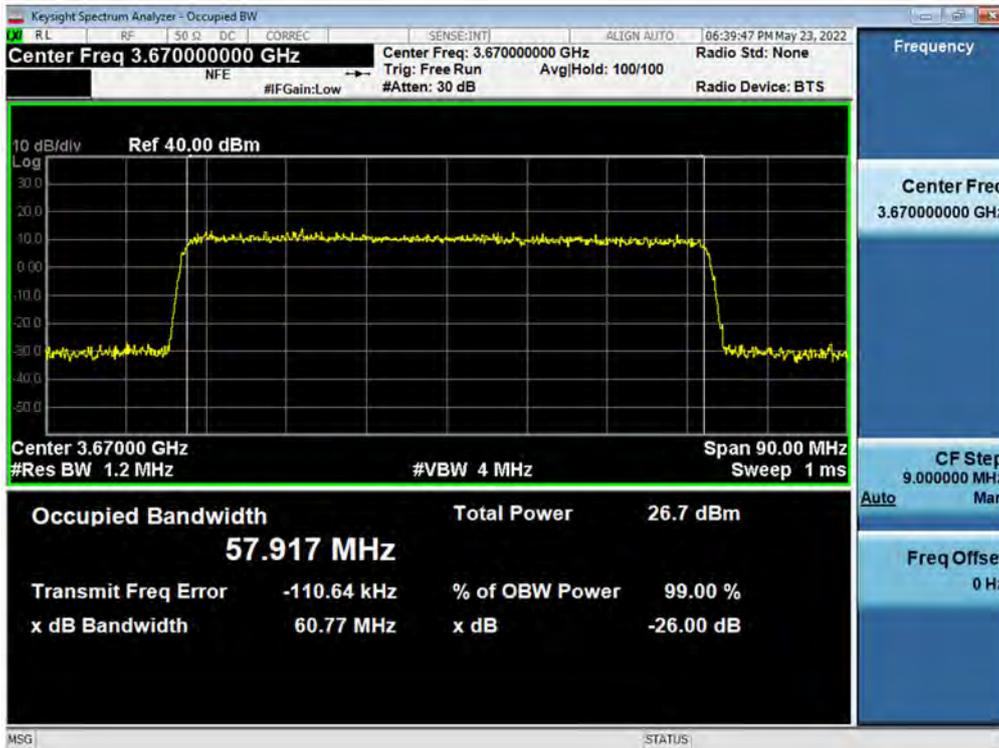
Antenna 1 / CBRS NR[60 MHz 1C + (10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C)][5C(1C+4C)]
/ NR 10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C / Non-Contiguous / 16QAM / High



Antenna 0 / CBRS NR[(10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C) + 60 MHz 1C][5C(4C+1C)]
 / NR 10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C / Non-Contiguous / 16QAM / Low



Antenna 0 / CBRS NR[(10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C) + 60 MHz 1C][5C(4C+1C)]
 / NR 60 MHz 1C / Non-Contiguous / 16QAM / High



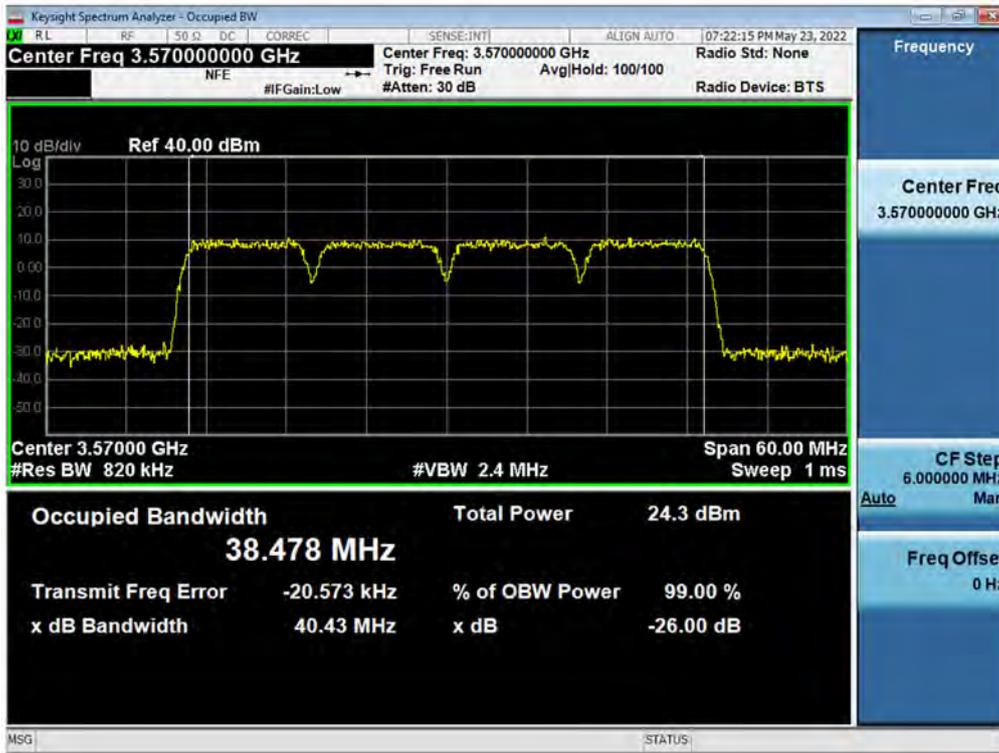
Antenna 1 / CBRS NR 60 MHz 1C + (NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 10 MHz 1C)[5C(1C+4C)]
 / CBRS NR 60 MHz 1C / Non-Contiguous / 256QAM / Low



Antenna 1 / CBRS NR 60 MHz 1C + (NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 10 MHz 1C)[5C(1C+4C)]
 / NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 10 MHz 1C / Non-Contiguous / 256QAM / High



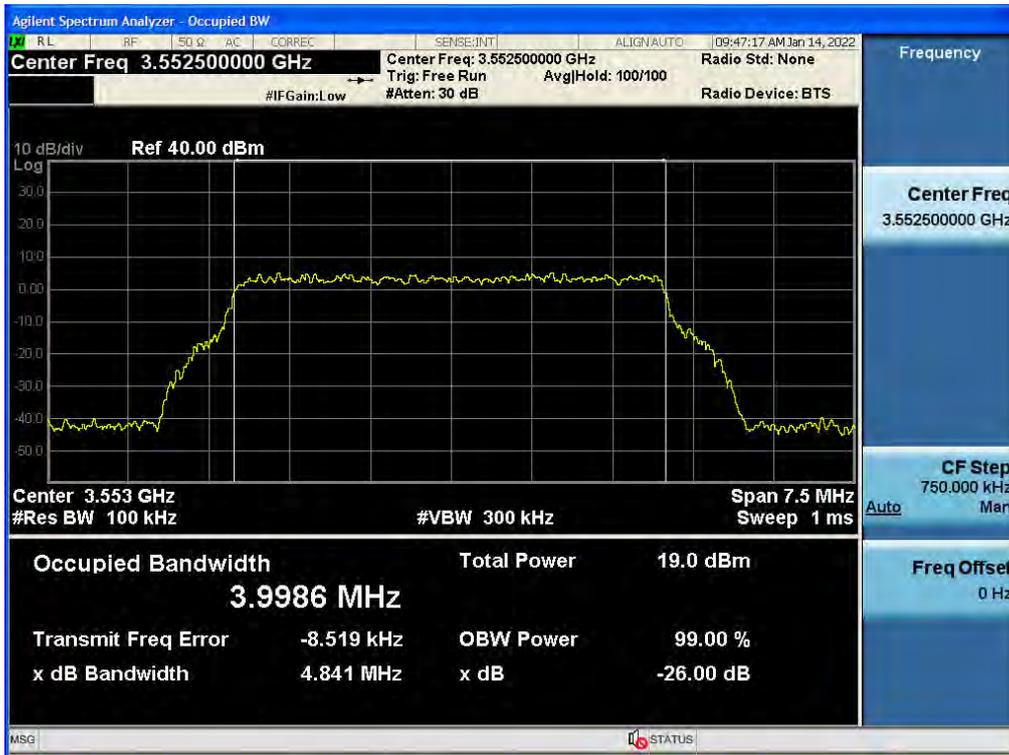
Antenna 0 / CBRS (LTE 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C) + NR 60 MHz 1C [5C(4C+1C)]
/ LTE 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C / Non-Contiguous / 64QAM / Low



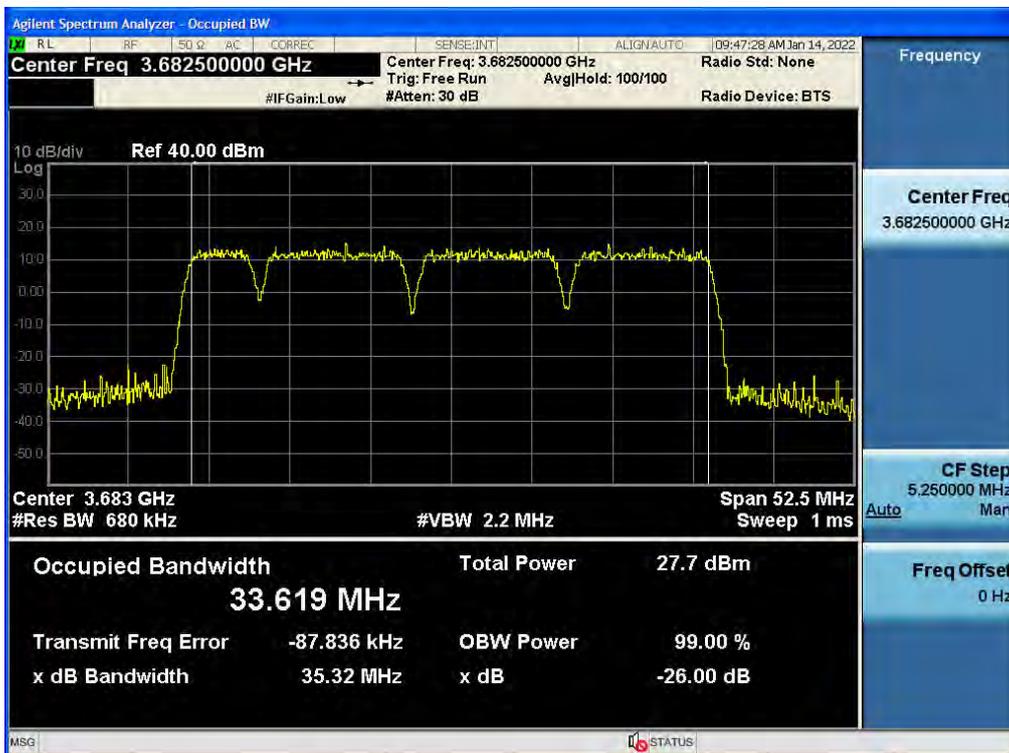
Antenna 0 / CBRS (LTE 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C) + NR 60 MHz 1C [5C(4C+1C)]
/ NR 60 MHz 1C / Non-Contiguous / 64QAM / High



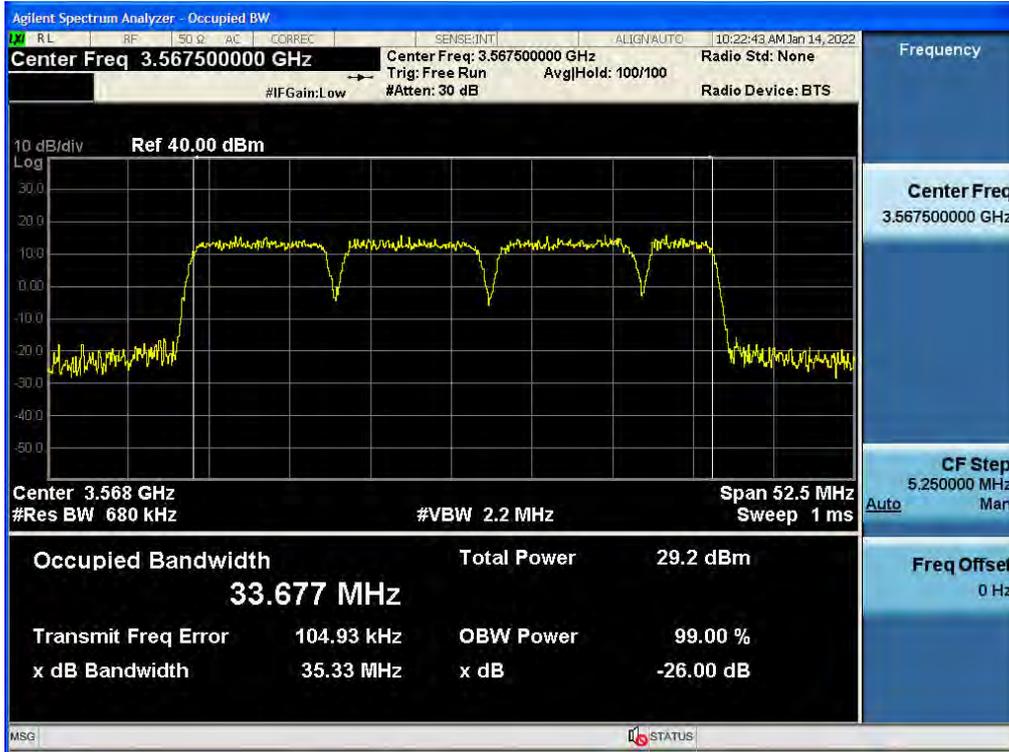
Antenna 1 / CBRs LTE 5 MHz 1C + (LTE 5 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C) [5C(1C+4C)]
/ LTE 5 MHz 1C / Non-Contiguous / QPSK / Low



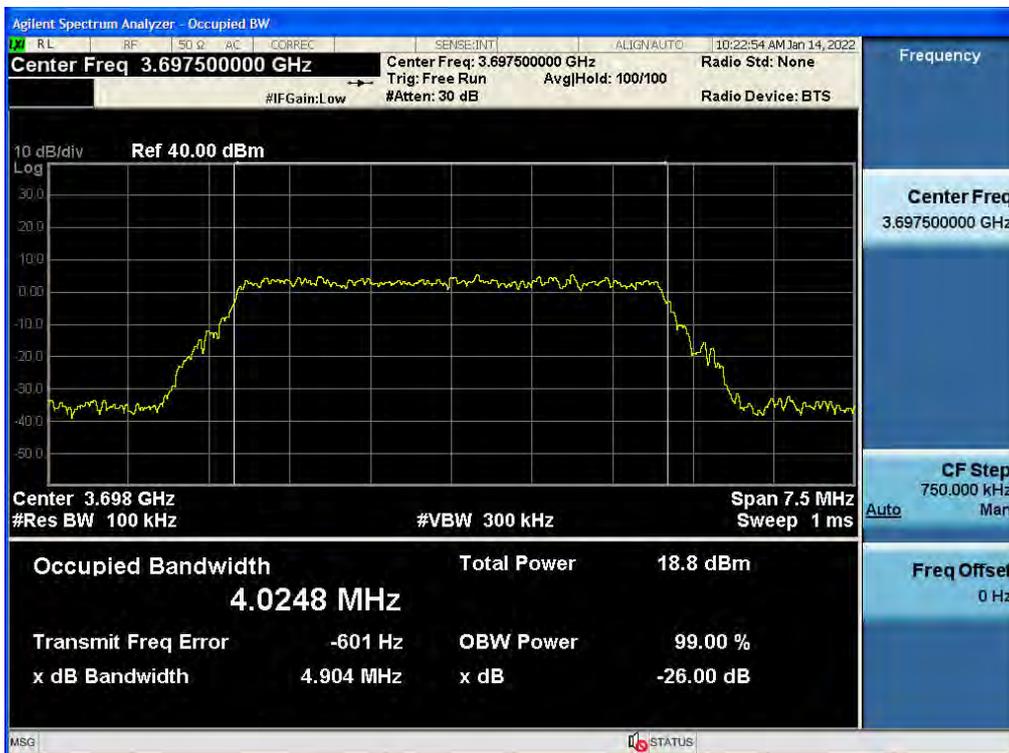
Antenna 1 / CBRs LTE 5 MHz 1C + (LTE 5 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C) [5C(1C+4C)]
/ NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C / Non-Contiguous / QPSK / High



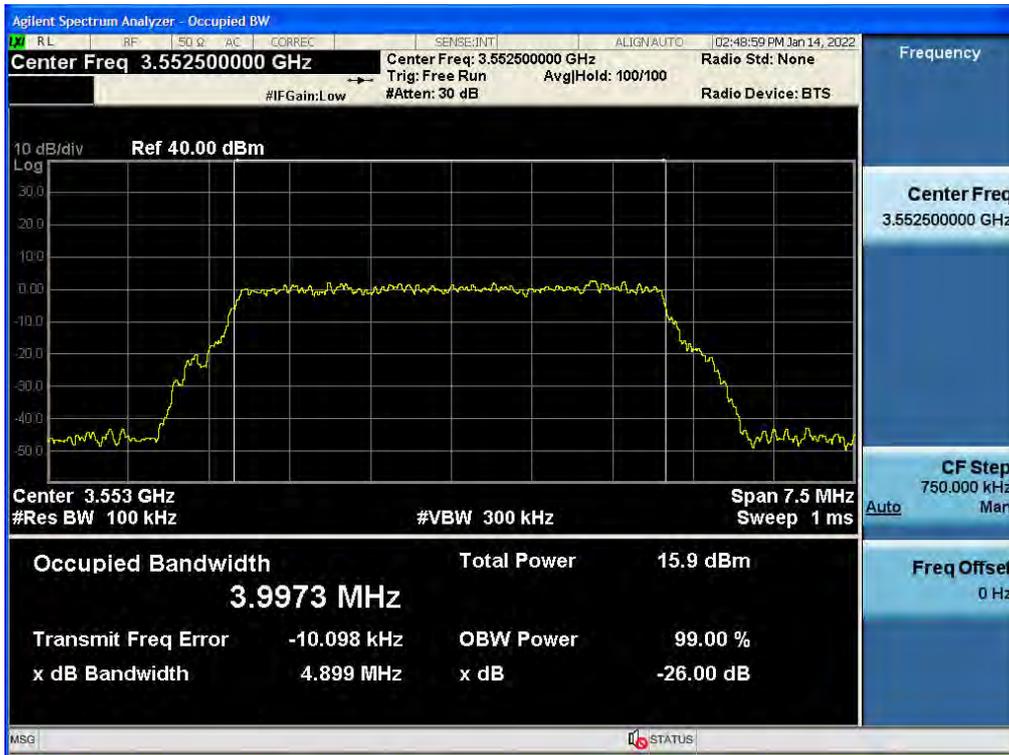
Antenna 0 / CBRs (NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C) + LTE 5 MHz 1C [5C(4C+1C)]
 / NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C / Non-Contiguous / 16QAM / Low



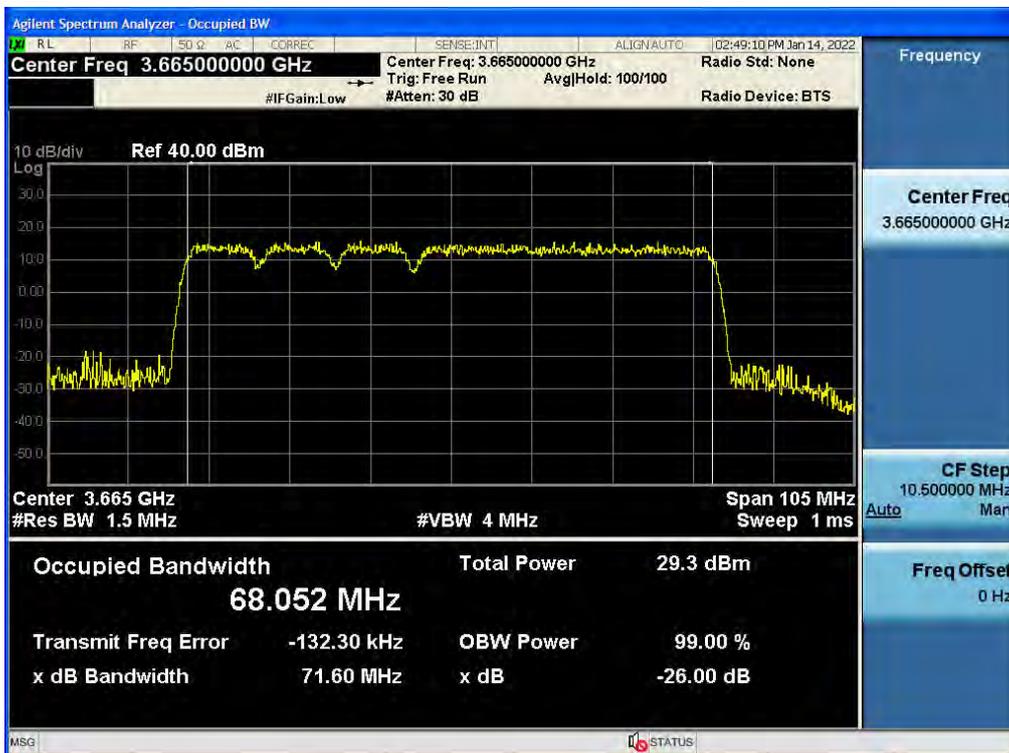
Antenna 0 / CBRs (NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C) + LTE 5 MHz 1C [5C(4C+1C)]
 / LTE 5 MHz 1C / Non-Contiguous / 16QAM / High



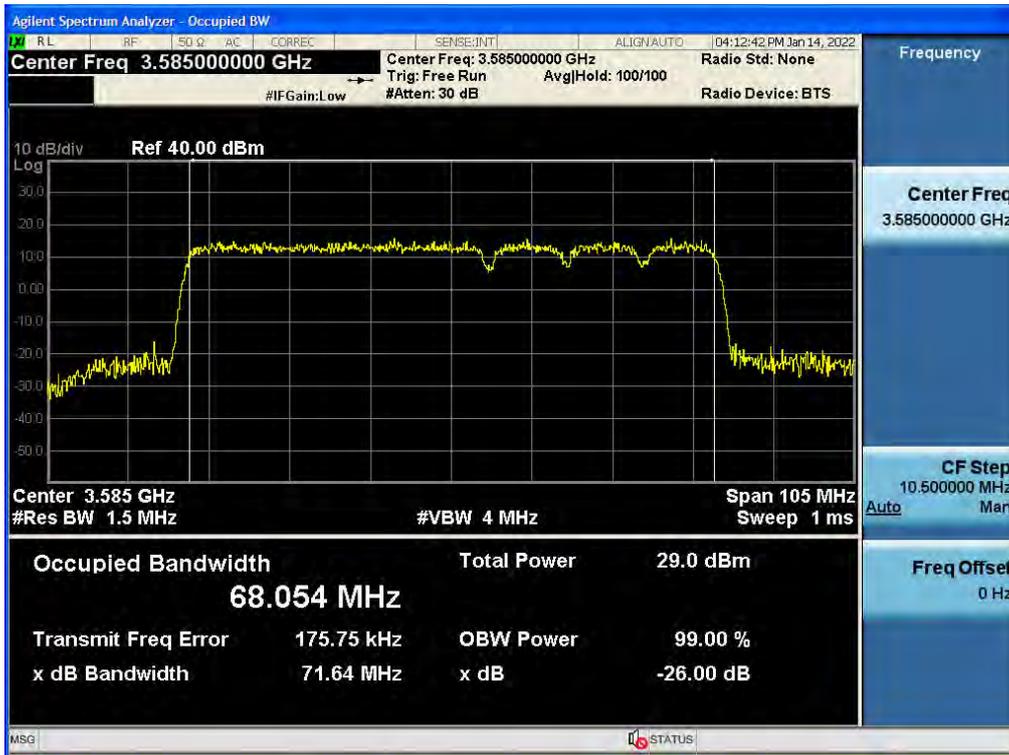
Antenna 1 / CBRS LTE 5 MHz 1C + (NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 40 MHz 1C) [5C(1C+4C)]
 / LTE 5 MHz 1C / Non-Contiguous / QPSK / Low



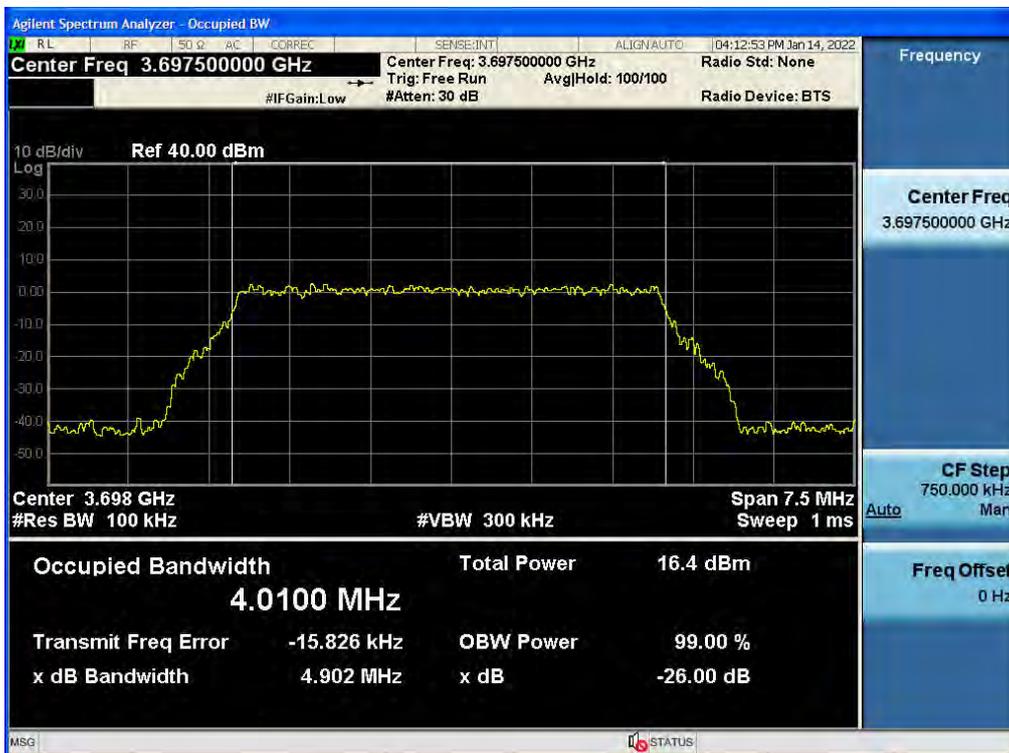
Antenna 1 / CBRS LTE 5 MHz 1C + (NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 40 MHz 1C) [5C(1C+4C)]
 / NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 40 MHz 1C / Non-Contiguous / QPSK / High



Antenna 0 / CBRS (NR 40 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C) + LTE 5 MHz 1C [5C(4C+1C)]
/ NR 40 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C / Non-Contiguous / 256QAM / Low



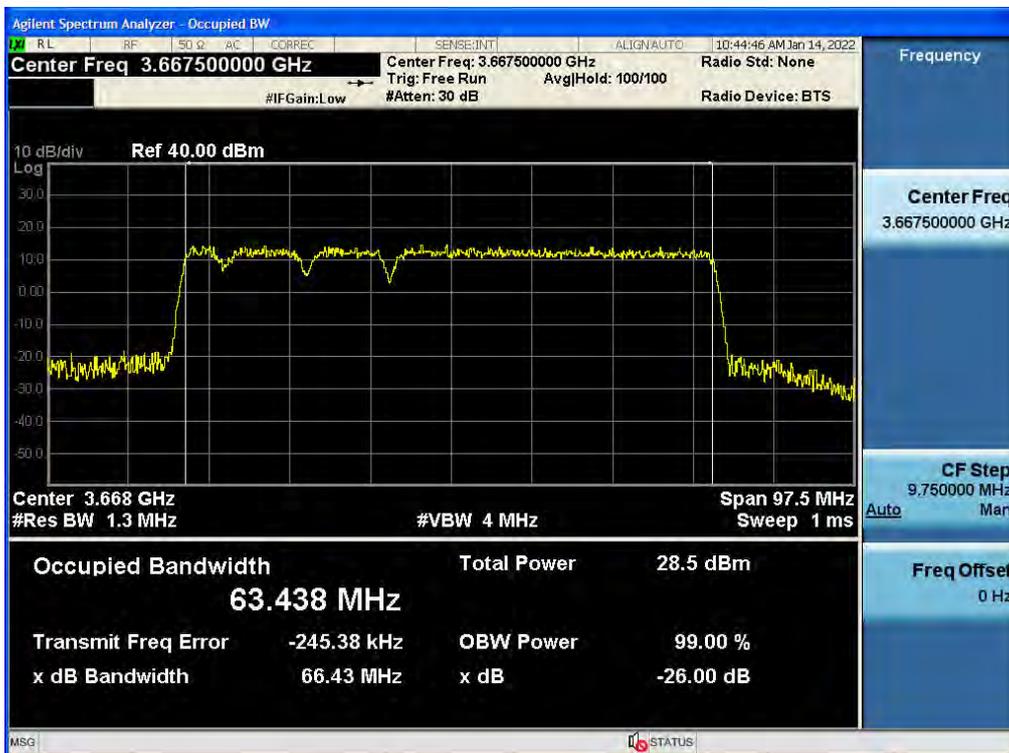
Antenna 0 / CBRS (NR 40 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C) + LTE 5 MHz 1C [5C(4C+1C)]
/ LTE 5 MHz 1C / Non-Contiguous / 256QAM / High



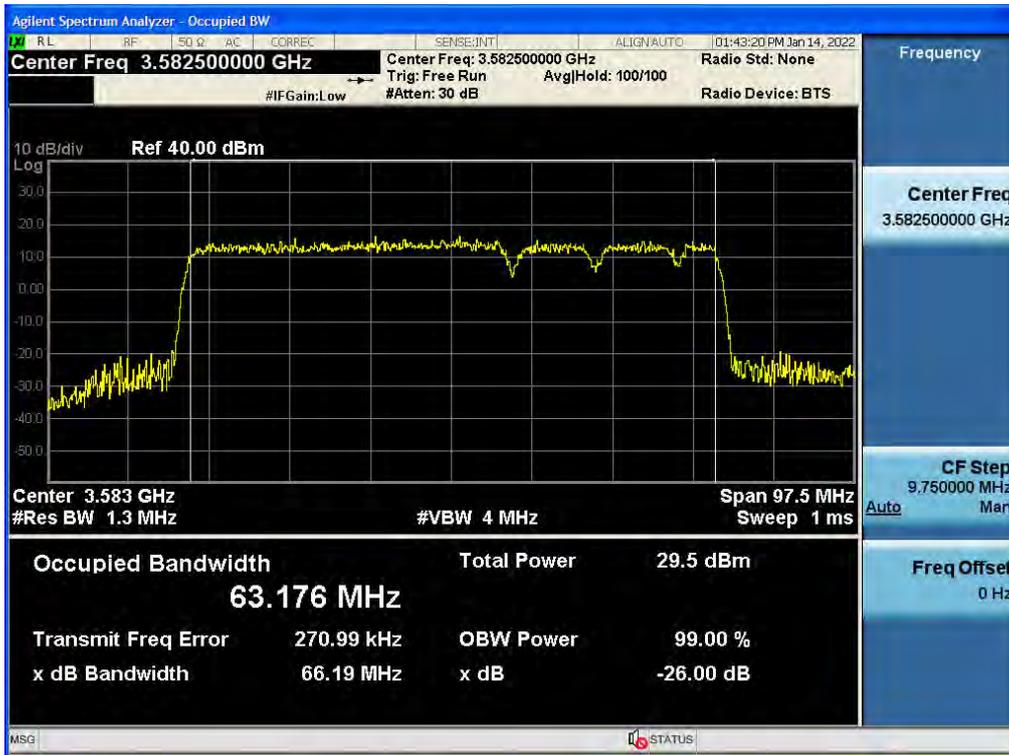
Antenna 0 / CBRS LTE 5 MHz 1C + (LTE 5 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 40 MHz 1C) [5C(1C+4C)]
 / LTE 5 MHz 1C / Non-Contiguous / 16QAM / Low



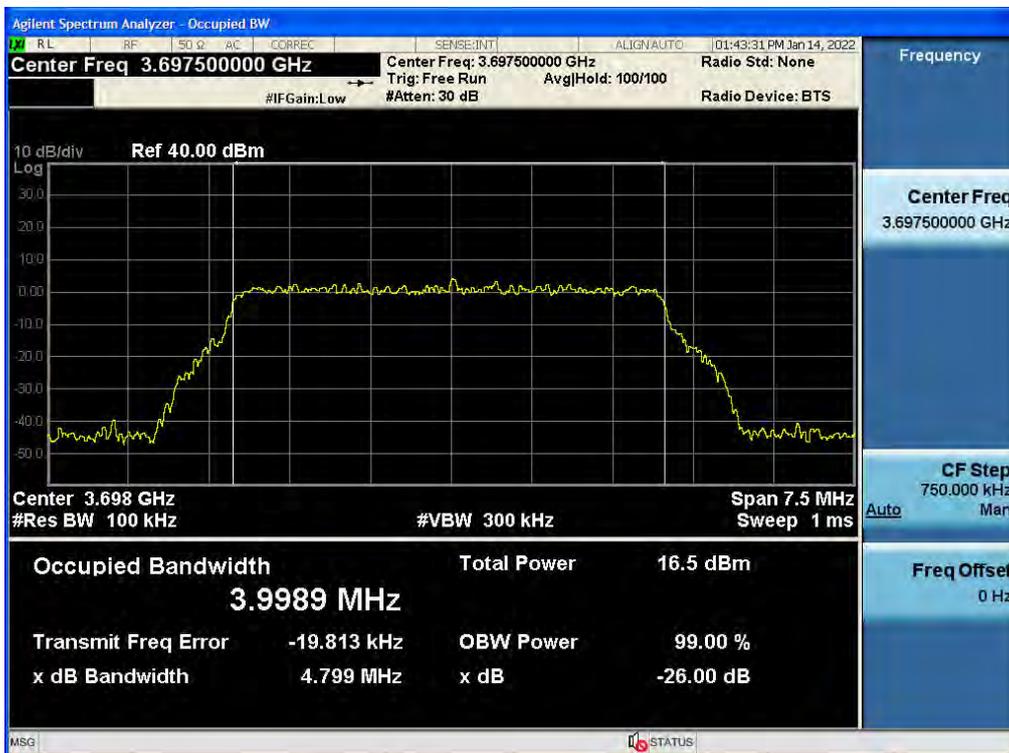
Antenna 0 / CBRS LTE 5 MHz 1C + (LTE 5 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 40 MHz 1C) [5C(1C+4C)]
 / LTE 5 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 40 MHz 1C / Non-Contiguous / 16QAM / High



Antenna 1 / CBRs (NR 40 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C) + LTE 5 MHz 1C [5C(4C+1C)]
 / NR 40 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C / Non-Contiguous / QPSK / Low



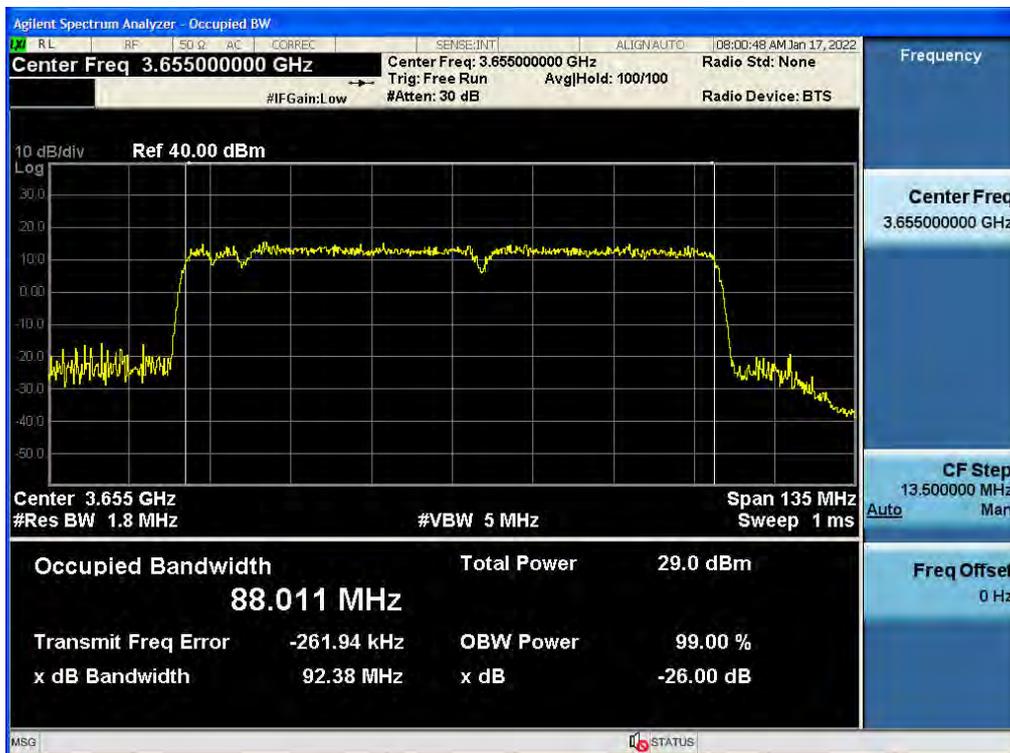
Antenna 1 / CBRs (NR 40 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C) + LTE 5 MHz 1C [5C(4C+1C)]
 / LTE 5 MHz 1C / Non-Contiguous / QPSK / High



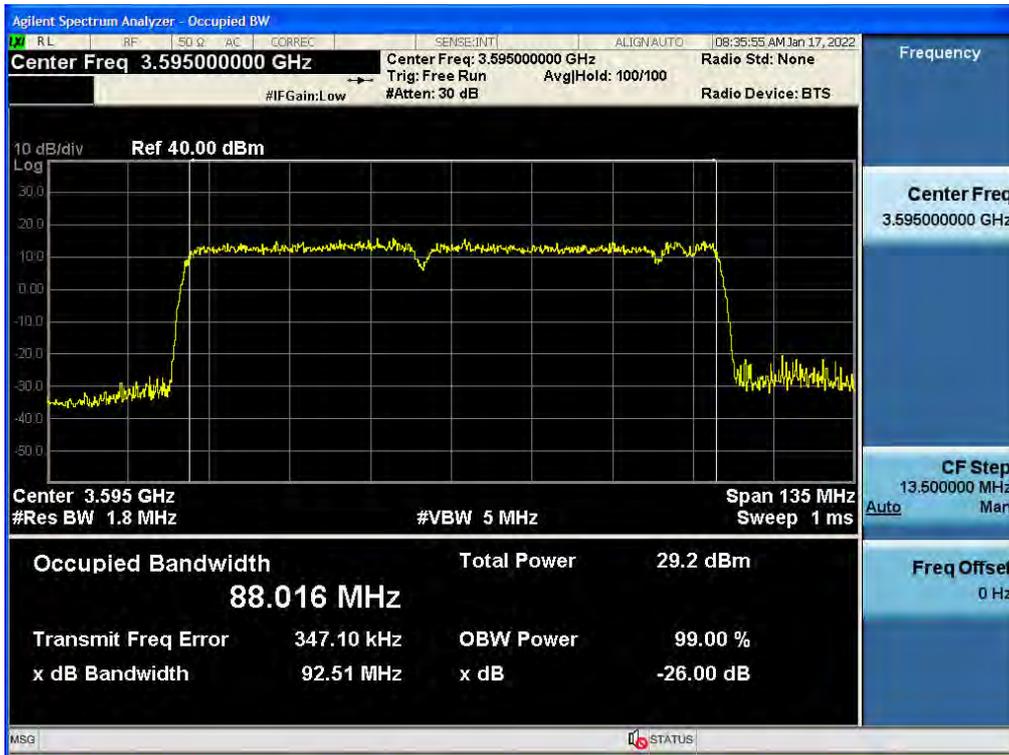
Antenna 0 / CBRS LTE 5 MHz 1C + (LTE 5 MHz 1C + LTE 5 MHz 1C + NR 40 MHz 1C + NR 40 MHz 1C) [5C(1C+4C)]
 / LTE 5 MHz 1C / Non-Contiguous / QPSK / Low



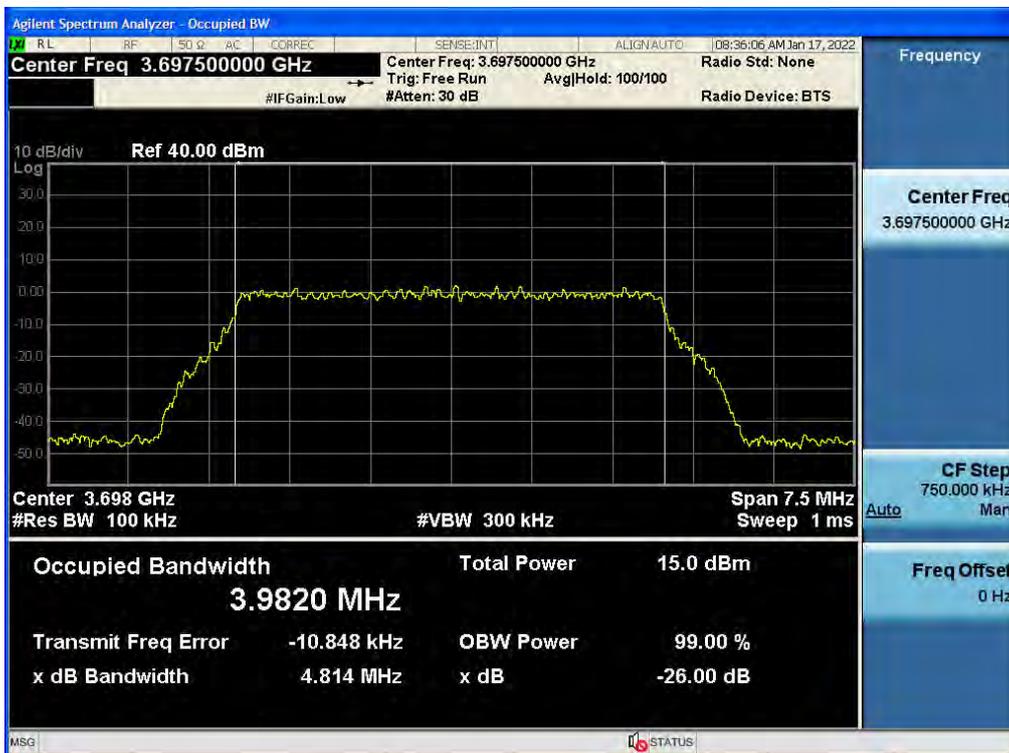
Antenna 0 / CBRS LTE 5 MHz 1C + (LTE 5 MHz 1C + LTE 5 MHz 1C + NR 40 MHz 1C + NR 40 MHz 1C) [5C(1C+4C)]
 / LTE 5 MHz 1C + LTE 5 MHz 1C + NR 40 MHz 1C + NR 40 MHz 1C / Non-Contiguous / QPSK / High



Antenna 1 / CBRS (NR 40 MHz 1C + NR 40 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C) + LTE 5 MHz 1C [5C(4C+1C)]
 / NR 40 MHz 1C + NR 40 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C / Non-Contiguous / QPSK / Low



Antenna 1 / CBRS (NR 40 MHz 1C + NR 40 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C) + LTE 5 MHz 1C [5C(4C+1C)]
 / LTE 5 MHz 1C / Non-Contiguous / QPSK / High



5.4. OUT-OF-BAND UNWANTED EMISSIONS

Test Requirements:

§ 2.1051 Measurements required: Spurious emissions at antenna terminals.

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in § 2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

96.41(e) General radio requirement: 3.5 GHz Emissions and Interference Limits.

(1) General protection levels.

- (i) Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.
- (ii) Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

(2) Additional protection levels.

Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

(3) Measurement procedure.

- (i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's authorized frequency channel, a resolution bandwidth of no less than one percent of the fundamental emission bandwidth may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the

measured power is integrated over the full reference bandwidth (i.e., 1 MHz or 1 percent of emission bandwidth, as specified). The fundamental emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

- (ii) When measuring unwanted emissions to demonstrate compliance with the limits, the CBSD and End User Device nominal carrier frequency/channel shall be adjusted as close to the licensee's authorized frequency block edges, both upper and lower, as the design permits.
 - (iii) Compliance with emission limits shall be demonstrated using either average (RMS)-detected or peak-detected power measurement techniques.
- (4) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

Test Procedures:

The measurement is performed in accordance with Section 5.7.3 of ANSI C63.26.

5.7.3 Out-of-band unwanted emissions measurements

- a) Set the spectrum analyzer center frequency to the block, band, or channel edge frequency.
- b) Set the span wide enough to capture the fundamental emission closest to the authorized block or band edge, and to include all modulation products that spill into the immediately adjacent frequency band. In some cases, it may be possible to set the center frequency and span so as to encompass the fundamental emission and the unwanted out-of-band (band-edge) emissions on either side of the authorized block, band, or channel. This can be accomplished with a single (slow) sweep, if adequate overload protection and sufficient dynamic range can be maintained.
- c) Set the number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$.
- d) Sweep time should be auto for peak detection. For rms detection the sweep time should be set as follows:
 - 1) If the device can be configured to transmit continuously (duty cycle $\geq 98\%$), set the (sweep time) $>$ (number of points in sweep) \times (symbol period) (e.g., by a factor of $10 \times \text{symbol period} \times \text{number of points}$). Increasing the sweep time (i.e., slowing the sweep speed) will allow for averaging over multiple symbols
 - 2) If the device cannot be configured to transmit continuously (duty cycle $< 98\%$) and a freerunning sweep must be used, set the sweep time so that the averaging is performed over multiple on/off cycles by setting the sweep time $>$ (number of points in sweep) \times (transmitter period) (i.e., the transmit on-time + the off-time). The spectrum analyzer readings shall subsequently be corrected by $[10 \log (1/\text{duty cycle})]$. This assumes that the transmission period and duty cycle is relatively constant (duty cycle variation $\leq \pm 2\%$).
 - 3) If the device cannot be configured to transmit continuously (duty cycle $< 98\%$) and a freerunning sweep must be used, set the sweep time so that the averaging is performed over multiple on/off cycles by setting the sweep time $>$ (number of points in sweep) \times (transmitter period) (i.e., the transmit on-time + the off-time). The spectrum analyzer readings shall subsequently be corrected by $[10 \log (1/\text{duty cycle})]$. This assumes that the transmission period and duty cycle is relatively constant (duty cycle variation $\leq \pm 2\%$).
 - 4) If the device cannot be configured to transmit continuously and a free-running sweep must be used, and if the transmissions exhibit a non-constant duty cycle (duty cycle variations $> \pm 2\%$), set the sweep time so that the

averaging is performed over the on-period by setting the sweep time $> (\text{symbol period}) \times (\text{number of points})$, while also maintaining the sweep time $< (\text{transmitter on-time})$. The trace mode shall be set to max hold, since not every display point will be averaged only over just the on-time. Thus, multiple sweeps (e.g., 100) in maximum hold are necessary to ensure that the maximum power is measured.

- e) The test report shall include the plots of the measuring instrument display and the measured data.
- f) See Annex I for example emission mask plots.

Note:

- (1) Due to MIMO operations, a correction has been added to the limit according to KDB 662911 D01 v02r01.
 - 2Tx MIMO correction: $10 \log(N_{\text{ANT}}) = 10 \log(2) = 3.01 \text{ dB}$ // $-13 \text{ dBm} - 10 \cdot \log(2) = -16.01 \text{ dBm}$
- (2) The results of the Out-of-band Unwanted Emissions test shown below the frequency measured values are very small and similar trend for each port, so we are attached only the worst case plot.
- (3) All power supply of operation were investigated and the worst case configuration results are reported.
 - Mode: 48 V; 1.5 A / 57 V; 1.3 A(PoE)
 - Worst case: 48 V; 1.5 A

Test Results:

Tabular Data of Out-of-band Unwanted Emissions

CBRS LTE 5 MHz 1 Carrier

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.98	-35.09
			Right	3 555.03	-34.08
		Middle	Left	3 622.48	-34.74
			Right	3 627.53	-37.82
		High	Left	3 694.98	-35.37
			Right	3 700.03	-36.07
	16QAM	Low	Left	3 549.98	-33.02
			Right	3 555.03	-38.65
		Middle	Left	3 622.48	-34.39
			Right	3 627.53	-34.10
		High	Left	3 694.98	-33.16
			Right	3 700.03	-35.49
	64QAM	Low	Left	3 549.98	-37.79
			Right	3 555.03	-36.67
		Middle	Left	3 622.48	-34.35
			Right	3 627.53	-36.90
		High	Left	3 694.98	-37.35
			Right	3 700.03	-33.10
	256QAM	Low	Left	3 549.98	-36.48
			Right	3 555.03	-38.19
		Middle	Left	3 622.48	-37.26
			Right	3 627.53	-36.01
		High	Left	3 694.98	-36.67
			Right	3 700.03	-36.31
1024QAM	Low	Left	3 549.98	-32.02	
		Right	3 555.03	-35.40	
	Middle	Left	3 622.48	-35.43	
		Right	3 627.53	-34.75	
	High	Left	3 694.98	-34.11	
		Right	3 700.03	-37.59	

1	QPSK	Low	Left	3 549.98	-33.83
			Right	3 555.03	-33.60
		Middle	Left	3 622.48	-33.58
			Right	3 627.53	-36.59
		High	Left	3 694.98	-33.22
			Right	3 700.03	-34.70
	16QAM	Low	Left	3 549.98	-32.96
			Right	3 555.03	-35.82
		Middle	Left	3 622.48	-36.55
			Right	3 627.53	-33.63
		High	Left	3 694.98	-33.68
			Right	3 700.03	-35.15
	64QAM	Low	Left	3 549.98	-35.12
			Right	3 555.03	-33.26
		Middle	Left	3 622.48	-36.29
			Right	3 627.53	-35.54
		High	Left	3 694.98	-34.35
			Right	3 700.03	-33.68
	256QAM	Low	Left	3 549.98	-33.97
			Right	3 555.03	-36.30
Middle		Left	3 622.48	-34.96	
		Right	3 627.53	-38.12	
High		Left	3 694.98	-35.62	
		Right	3 700.03	-39.24	
1024QAM	Low	Left	3 549.98	-36.78	
		Right	3 555.03	-36.38	
	Middle	Left	3 622.48	-32.23	
		Right	3 627.53	-34.42	
	High	Left	3 694.98	-32.52	
		Right	3 700.03	-37.79	

CBRS LTE 10 MHz 1 Carrier

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.95	-48.40
			Right	3 560.05	-48.33
		Middle	Left	3 619.95	-46.96
			Right	3 630.05	-47.14
		High	Left	3 689.95	-47.18
			Right	3 700.05	-47.53
	16QAM	Low	Left	3 549.95	-47.78
			Right	3 560.05	-47.29
		Middle	Left	3 619.95	-46.93
			Right	3 630.05	-47.26
		High	Left	3 689.95	-43.66
			Right	3 700.05	-44.99
	64QAM	Low	Left	3 549.95	-48.17
			Right	3 560.05	-47.31
		Middle	Left	3 619.95	-46.65
			Right	3 630.05	-46.86
		High	Left	3 689.95	-44.26
			Right	3 700.05	-45.13
	256QAM	Low	Left	3 549.95	-48.12
			Right	3 560.05	-46.63
		Middle	Left	3 619.95	-46.90
			Right	3 630.05	-46.78
		High	Left	3 689.95	-43.96
			Right	3 700.05	-44.27
1024QAM	Low	Left	3 549.95	-48.48	
		Right	3 560.05	-47.97	
	Middle	Left	3 619.95	-46.72	
		Right	3 630.05	-46.39	
	High	Left	3 689.95	-45.06	
		Right	3 700.05	-45.44	

1	QPSK	Low	Left	3 549.95	-46.80
			Right	3 560.05	-47.11
		Middle	Left	3 619.95	-46.11
			Right	3 630.05	-46.00
		High	Left	3 689.95	-44.18
			Right	3 700.05	-45.20
	16QAM	Low	Left	3 549.95	-47.87
			Right	3 560.05	-46.40
		Middle	Left	3 619.95	-45.78
			Right	3 630.05	-45.61
		High	Left	3 689.95	-44.30
			Right	3 700.05	-45.03
	64QAM	Low	Left	3 549.95	-46.48
			Right	3 560.05	-47.27
		Middle	Left	3 619.95	-44.85
			Right	3 630.05	-46.72
		High	Left	3 689.95	-43.81
			Right	3 700.05	-44.65
	256QAM	Low	Left	3 549.95	-47.40
			Right	3 560.05	-47.52
Middle		Left	3 619.95	-46.52	
		Right	3 630.05	-46.45	
High		Left	3 689.95	-43.96	
		Right	3 700.05	-45.62	
1024QAM	Low	Left	3 549.95	-46.83	
		Right	3 560.05	-47.34	
	Middle	Left	3 619.95	-44.90	
		Right	3 630.05	-47.27	
	High	Left	3 689.95	-43.23	
		Right	3 700.05	-44.08	

CBRS LTE 15 MHz 1 Carrier

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.93	-40.04
			Right	3 565.08	-39.38
		Middle	Left	3 617.43	-40.58
			Right	3 632.58	-40.60
		High	Left	3 684.93	-36.98
			Right	3 700.08	-39.20
	16QAM	Low	Left	3 549.93	-39.61
			Right	3 565.08	-38.24
		Middle	Left	3 617.43	-35.60
			Right	3 632.58	-39.74
		High	Left	3 684.93	-36.75
			Right	3 700.08	-38.48
	64QAM	Low	Left	3 549.93	-40.16
			Right	3 565.08	-40.68
		Middle	Left	3 617.43	-41.12
			Right	3 632.58	-39.32
		High	Left	3 684.93	-37.94
			Right	3 700.08	-38.44
	256QAM	Low	Left	3 549.93	-39.17
			Right	3 565.08	-42.97
		Middle	Left	3 617.43	-40.69
			Right	3 632.58	-42.34
		High	Left	3 684.93	-35.69
			Right	3 700.08	-38.61
1024QAM	Low	Left	3 549.93	-41.04	
		Right	3 565.08	-39.24	
	Middle	Left	3 617.43	-36.78	
		Right	3 632.58	-40.32	
	High	Left	3 684.93	-34.68	
		Right	3 700.08	-38.18	

1	QPSK	Low	Left	3 549.93	-39.69
			Right	3 565.08	-41.99
		Middle	Left	3 617.43	-37.45
			Right	3 632.58	-39.28
		High	Left	3 684.93	-37.31
			Right	3 700.08	-37.59
	16QAM	Low	Left	3 549.93	-44.00
			Right	3 565.08	-40.93
		Middle	Left	3 617.43	-43.14
			Right	3 632.58	-38.41
		High	Left	3 684.93	-39.31
			Right	3 700.08	-39.08
	64QAM	Low	Left	3 549.93	-42.96
			Right	3 565.08	-44.04
		Middle	Left	3 617.43	-38.46
			Right	3 632.58	-42.05
		High	Left	3 684.93	-38.86
			Right	3 700.08	-39.99
	256QAM	Low	Left	3 549.93	-42.39
			Right	3 565.08	-41.53
		Middle	Left	3 617.43	-41.69
			Right	3 632.58	-40.68
		High	Left	3 684.93	-37.94
			Right	3 700.08	-40.64
1024QAM	Low	Left	3 549.93	-43.14	
		Right	3 565.08	-40.62	
	Middle	Left	3 617.43	-37.83	
		Right	3 632.58	-40.93	
	High	Left	3 684.93	-39.61	
		Right	3 700.08	-39.18	

CBRS LTE 20 MHz 1 Carrier

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.90	-39.16
			Right	3 570.10	-40.57
		Middle	Left	3 614.90	-40.50
			Right	3 635.10	-40.63
		High	Left	3 679.90	-36.82
			Right	3 700.10	-36.72
	16QAM	Low	Left	3 549.90	-39.67
			Right	3 570.10	-40.77
		Middle	Left	3 614.90	-42.43
			Right	3 635.10	-43.05
		High	Left	3 679.90	-36.43
			Right	3 700.10	-37.97
	64QAM	Low	Left	3 549.90	-40.36
			Right	3 570.10	-40.27
		Middle	Left	3 614.90	-42.46
			Right	3 635.10	-41.63
		High	Left	3 679.90	-36.96
			Right	3 700.10	-37.98
	256QAM	Low	Left	3 549.90	-40.40
			Right	3 570.10	-40.23
		Middle	Left	3 614.90	-41.64
			Right	3 635.10	-41.39
		High	Left	3 679.90	-35.15
			Right	3 700.10	-35.61
1024QAM	Low	Left	3 549.90	-39.84	
		Right	3 570.10	-40.94	
	Middle	Left	3 614.90	-41.03	
		Right	3 635.10	-42.72	
	High	Left	3 679.90	-34.18	
		Right	3 700.10	-36.43	

1	QPSK	Low	Left	3 549.90	-40.48
			Right	3 570.10	-41.69
		Middle	Left	3 614.90	-39.03
			Right	3 635.10	-39.71
		High	Left	3 679.90	-37.95
			Right	3 700.10	-39.34
	16QAM	Low	Left	3 549.90	-42.22
			Right	3 570.10	-42.08
		Middle	Left	3 614.90	-39.25
			Right	3 635.10	-40.34
		High	Left	3 679.90	-37.61
			Right	3 700.10	-38.86
	64QAM	Low	Left	3 549.90	-41.04
			Right	3 570.10	-40.69
		Middle	Left	3 614.90	-40.39
			Right	3 635.10	-39.69
		High	Left	3 679.90	-36.71
			Right	3 700.10	-37.92
	256QAM	Low	Left	3 549.90	-40.05
			Right	3 570.10	-39.93
Middle		Left	3 614.90	-40.12	
		Right	3 635.10	-41.24	
High		Left	3 679.90	-36.91	
		Right	3 700.10	-37.75	
1024QAM	Low	Left	3 549.90	-41.67	
		Right	3 570.10	-41.75	
	Middle	Left	3 614.90	-40.40	
		Right	3 635.10	-41.02	
	High	Left	3 679.90	-36.35	
		Right	3 700.10	-37.16	

CBRS NR 10 MHz 1 Carrier

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.95	-47.83
			Right	3 560.05	-46.08
		Middle	Left	3 619.95	-45.32
			Right	3 630.05	-43.19
		High	Left	3 689.95	-36.18
			Right	3 700.05	-35.70
	16QAM	Low	Left	3 549.95	-44.78
			Right	3 560.05	-45.24
		Middle	Left	3 619.95	-41.84
			Right	3 630.05	-41.92
		High	Left	3 689.95	-37.21
			Right	3 700.05	-37.85
	64QAM	Low	Left	3 549.95	-44.29
			Right	3 560.05	-44.15
		Middle	Left	3 619.95	-40.73
			Right	3 630.05	-39.38
		High	Left	3 689.95	-34.58
			Right	3 700.05	-35.70
	256QAM	Low	Left	3 549.95	-42.99
			Right	3 560.05	-43.81
		Middle	Left	3 619.95	-41.53
			Right	3 630.05	-40.83
		High	Left	3 689.95	-37.11
			Right	3 700.05	-38.26

1	QPSK	Low	Left	3 549.95	-46.94
			Right	3 560.05	-47.93
		Middle	Left	3 619.95	-46.34
			Right	3 630.05	-46.56
		High	Left	3 689.95	-45.74
			Right	3 700.05	-46.50
	16QAM	Low	Left	3 549.95	-47.77
			Right	3 560.05	-47.30
		Middle	Left	3 619.95	-47.22
			Right	3 630.05	-45.85
		High	Left	3 689.95	-46.40
			Right	3 700.05	-46.25
	64QAM	Low	Left	3 549.95	-48.17
			Right	3 560.05	-48.07
		Middle	Left	3 619.95	-45.92
			Right	3 630.05	-45.66
		High	Left	3 689.95	-44.12
			Right	3 700.05	-44.91
256QAM	Low	Left	3 549.95	-46.51	
		Right	3 560.05	-47.17	
	Middle	Left	3 619.95	-46.12	
		Right	3 630.05	-46.56	
	High	Left	3 689.95	-44.06	
		Right	3 700.05	-45.07	

CBRS NR 20 MHz 1 Carrier

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.90	-31.82
			Right	3 570.10	-30.03
		Middle	Left	3 614.90	-31.52
			Right	3 635.10	-30.17
		High	Left	3 679.90	-27.54
			Right	3 700.10	-28.47
	16QAM	Low	Left	3 549.90	-31.32
			Right	3 570.10	-31.00
		Middle	Left	3 614.90	-30.90
			Right	3 635.10	-30.76
		High	Left	3 679.90	-27.22
			Right	3 700.10	-26.91
	64QAM	Low	Left	3 549.90	-32.76
			Right	3 570.10	-31.54
		Middle	Left	3 614.90	-29.86
			Right	3 635.10	-30.86
		High	Left	3 679.90	-25.70
			Right	3 700.10	-28.46
	256QAM	Low	Left	3 549.90	-31.97
			Right	3 570.10	-32.45
		Middle	Left	3 614.90	-29.87
			Right	3 635.10	-30.30
		High	Left	3 679.90	-26.21
			Right	3 700.10	-27.44

1	QPSK	Low	Left	3 549.90	-42.74
			Right	3 570.10	-40.89
		Middle	Left	3 614.90	-42.03
			Right	3 635.10	-41.12
		High	Left	3 679.90	-39.00
			Right	3 700.10	-38.15
	16QAM	Low	Left	3 549.90	-42.11
			Right	3 570.10	-40.47
		Middle	Left	3 614.90	-40.25
			Right	3 635.10	-40.91
		High	Left	3 679.90	-37.65
			Right	3 700.10	-38.82
	64QAM	Low	Left	3 549.90	-41.30
			Right	3 570.10	-40.39
		Middle	Left	3 614.90	-42.65
			Right	3 635.10	-40.37
		High	Left	3 679.90	-38.40
			Right	3 700.10	-39.13
	256QAM	Low	Left	3 549.90	-41.80
			Right	3 570.10	-40.34
Middle		Left	3 614.90	-41.57	
		Right	3 635.10	-41.77	
High		Left	3 679.90	-38.05	
		Right	3 700.10	-38.63	

CBRS NR 30 MHz 1 Carrier

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.85	-32.28
			Right	3 580.15	-32.30
		Middle	Left	3 609.85	-30.35
			Right	3 640.15	-31.13
		High	Left	3 669.85	-28.10
			Right	3 700.15	-30.72
	16QAM	Low	Left	3 549.85	-32.86
			Right	3 580.15	-33.79
		Middle	Left	3 609.85	-30.17
			Right	3 640.15	-30.72
		High	Left	3 669.85	-29.22
			Right	3 700.15	-30.14
	64QAM	Low	Left	3 549.85	-33.06
			Right	3 580.15	-32.53
		Middle	Left	3 609.85	-31.06
			Right	3 640.15	-30.42
		High	Left	3 669.85	-28.52
			Right	3 700.15	-30.93
	256QAM	Low	Left	3 549.85	-32.05
			Right	3 580.15	-31.54
		Middle	Left	3 609.85	-30.08
			Right	3 640.15	-31.96
		High	Left	3 669.85	-28.57
			Right	3 700.15	-31.12

1	QPSK	Low	Left	3 549.85	-37.97
			Right	3 580.15	-37.04
		Middle	Left	3 609.85	-37.77
			Right	3 640.15	-37.97
		High	Left	3 669.85	-34.42
			Right	3 700.15	-34.11
	16QAM	Low	Left	3 549.85	-38.61
			Right	3 580.15	-37.71
		Middle	Left	3 609.85	-37.71
			Right	3 640.15	-37.47
		High	Left	3 669.85	-34.10
			Right	3 700.15	-33.99
	64QAM	Low	Left	3 549.85	-38.43
			Right	3 580.15	-36.73
		Middle	Left	3 609.85	-38.17
			Right	3 640.15	-38.20
		High	Left	3 669.85	-33.17
			Right	3 700.15	-34.46
	256QAM	Low	Left	3 549.85	-37.50
			Right	3 580.15	-38.10
Middle		Left	3 609.85	-38.15	
		Right	3 640.15	-37.14	
High		Left	3 669.85	-33.90	
		Right	3 700.15	-35.28	

CBRS NR 40 MHz 1 Carrier

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.80	-31.68
			Right	3 590.20	-31.34
		Middle	Left	3 604.80	-32.33
			Right	3 645.20	-31.42
		High	Left	3 659.80	-29.28
			Right	3 700.20	-30.98
	16QAM	Low	Left	3 549.80	-30.94
			Right	3 590.20	-30.98
		Middle	Left	3 604.80	-31.69
			Right	3 645.20	-31.72
		High	Left	3 659.80	-30.16
			Right	3 700.20	-32.78
	64QAM	Low	Left	3 549.80	-29.69
			Right	3 590.20	-31.25
		Middle	Left	3 604.80	-29.23
			Right	3 645.20	-29.03
		High	Left	3 659.80	-29.50
			Right	3 700.20	-31.37
	256QAM	Low	Left	3 549.80	-30.79
			Right	3 590.20	-30.77
		Middle	Left	3 604.80	-29.28
			Right	3 645.20	-29.10
		High	Left	3 659.80	-31.04
			Right	3 700.20	-34.30

1	QPSK	Low	Left	3 549.80	-40.04
			Right	3 590.20	-38.46
		Middle	Left	3 604.80	-38.63
			Right	3 645.20	-39.15
		High	Left	3 659.80	-36.73
			Right	3 700.20	-38.56
	16QAM	Low	Left	3 549.80	-38.30
			Right	3 590.20	-39.54
		Middle	Left	3 604.80	-37.98
			Right	3 645.20	-39.97
		High	Left	3 659.80	-33.73
			Right	3 700.20	-35.23
	64QAM	Low	Left	3 549.80	-37.62
			Right	3 590.20	-37.33
		Middle	Left	3 604.80	-38.11
			Right	3 645.20	-37.47
		High	Left	3 659.80	-34.89
			Right	3 700.20	-37.03
	256QAM	Low	Left	3 549.80	-38.04
			Right	3 590.20	-36.72
Middle		Left	3 604.80	-38.28	
		Right	3 645.20	-38.42	
High		Left	3 659.80	-34.84	
		Right	3 700.20	-35.94	

CBRS NR 50 MHz 1 Carrier

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.51	-43.47
			Right	3 600.80	-44.90
		Middle	Left	3 599.75	-41.90
			Right	3 650.25	-44.71
		High	Left	3 649.75	-42.09
			Right	3 700.34	-40.43
	16QAM	Low	Left	3 549.71	-43.52
			Right	3 600.25	-43.98
		Middle	Left	3 599.71	-43.29
			Right	3 650.44	-44.57
		High	Left	3 649.75	-40.90
			Right	3 700.25	-41.65
	64QAM	Low	Left	3 549.46	-44.63
			Right	3 600.29	-45.67
		Middle	Left	3 599.05	-44.59
			Right	3 650.25	-44.72
		High	Left	3 649.61	-41.89
			Right	3 700.25	-39.57
	256QAM	Low	Left	3 549.75	-41.37
			Right	3 600.44	-46.65
		Middle	Left	3 599.75	-42.83
			Right	3 650.85	-44.64
		High	Left	3 649.66	-42.05
			Right	3 700.75	-40.29

1	QPSK	Low	Left	3 549.66	-44.31
			Right	3 600.39	-45.25
		Middle	Left	3 599.66	-41.75
			Right	3 650.34	-44.70
		High	Left	3 649.26	-41.82
			Right	3 700.49	-40.64
	16QAM	Low	Left	3 549.75	-42.48
			Right	3 600.29	-44.53
		Middle	Left	3 599.66	-44.19
			Right	3 650.25	-43.17
		High	Left	3 649.71	-42.30
			Right	3 700.34	-40.60
	64QAM	Low	Left	3 549.66	-44.48
			Right	3 600.34	-45.90
		Middle	Left	3 599.26	-43.90
			Right	3 650.69	-46.10
		High	Left	3 649.51	-41.16
			Right	3 700.25	-39.88
	256QAM	Low	Left	3 549.71	-44.25
			Right	3 600.25	-43.81
Middle		Left	3 599.71	-42.98	
		Right	3 650.25	-43.31	
High		Left	3 649.75	-42.04	
		Right	3 700.75	-41.04	

CBRS NR 60 MHz 1 Carrier

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.55	-39.68
			Right	3 610.30	-40.83
		Middle	Left	3 594.70	-40.09
			Right	3 655.30	-40.71
		High	Left	3 639.70	-40.44
			Right	3 700.45	-38.78
	16QAM	Low	Left	3 549.61	-39.81
			Right	3 610.30	-40.32
		Middle	Left	3 594.70	-42.03
			Right	3 655.30	-39.52
		High	Left	3 639.70	-39.16
			Right	3 700.30	-39.59
	64QAM	Low	Left	3 549.70	-37.00
			Right	3 610.39	-41.64
		Middle	Left	3 594.61	-42.45
			Right	3 656.00	-44.01
		High	Left	3 639.70	-39.71
			Right	3 700.30	-38.11
	256QAM	Low	Left	3 549.70	-38.98
			Right	3 610.94	-43.88
		Middle	Left	3 594.70	-41.52
			Right	3 655.30	-38.08
		High	Left	3 639.70	-39.90
			Right	3 700.70	-40.48

1	QPSK	Low	Left	3 549.12	-40.64
			Right	3 610.45	-41.44
		Middle	Left	3 594.70	-39.93
			Right	3 655.51	-41.79
		High	Left	3 639.70	-40.54
			Right	3 700.30	-38.55
	16QAM	Low	Left	3 549.61	-38.93
			Right	3 610.30	-41.23
		Middle	Left	3 594.70	-41.07
			Right	3 655.30	-41.46
		High	Left	3 639.70	-37.48
			Right	3 700.30	-40.12
	64QAM	Low	Left	3 549.70	-37.90
			Right	3 610.30	-41.85
		Middle	Left	3 594.70	-37.48
			Right	3 655.30	-40.89
		High	Left	3 639.70	-40.03
			Right	3 700.30	-40.50
	256QAM	Low	Left	3 549.70	-38.81
			Right	3 610.30	-39.82
Middle		Left	3 594.70	-41.82	
		Right	3 655.30	-39.06	
High		Left	3 639.70	-38.94	
		Right	3 700.94	-40.88	

CBRS NR 80 MHz 1 Carrier

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.32	-40.29
			Right	3 630.40	-40.75
		Middle	Left	3 584.60	-40.19
			Right	3 665.40	-40.73
		High	Left	3 619.60	-38.58
			Right	3 700.76	-41.19
	16QAM	Low	Left	3 549.60	-38.99
			Right	3 630.40	-40.65
		Middle	Left	3 584.60	-41.80
			Right	3 665.40	-40.59
		High	Left	3 619.60	-39.04
			Right	3 700.40	-39.43
	64QAM	Low	Left	3 549.60	-40.71
			Right	3 630.40	-40.49
		Middle	Left	3 584.60	-41.16
			Right	3 665.40	-39.99
		High	Left	3 619.60	-39.79
			Right	3 700.40	-41.02
	256QAM	Low	Left	3 549.41	-38.73
			Right	3 630.40	-40.65
		Middle	Left	3 584.60	-40.55
			Right	3 665.60	-42.12
		High	Left	3 619.60	-39.94
			Right	3 700.84	-40.25

1	QPSK	Low	Left	3 549.08	-39.09
			Right	3 630.40	-42.41
		Middle	Left	3 584.60	-37.39
			Right	3 665.51	-42.10
		High	Left	3 619.60	-39.93
			Right	3 701.00	-40.47
	16QAM	Low	Left	3 549.60	-37.20
			Right	3 630.40	-38.69
		Middle	Left	3 584.60	-40.34
			Right	3 665.40	-43.08
		High	Left	3 619.60	-39.40
			Right	3 700.40	-41.31
	64QAM	Low	Left	3 549.32	-39.71
			Right	3 630.40	-42.15
		Middle	Left	3 584.60	-41.78
			Right	3 665.51	-42.49
		High	Left	3 619.60	-41.97
			Right	3 700.40	-37.59
	256QAM	Low	Left	3 549.32	-39.49
			Right	3 630.40	-42.10
Middle		Left	3 584.49	-41.51	
		Right	3 665.68	-44.27	
High		Left	3 619.60	-40.38	
		Right	3 700.92	-40.58	

CBRS NR 100 MHz 1 Carrier

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.50	-29.90
			Right	3 650.50	-32.13
		Middle	Left	3 574.50	-30.85
			Right	3 675.50	-32.94
		High	Left	3 599.50	-31.37
			Right	3 700.50	-32.90
	16QAM	Low	Left	3 549.50	-30.43
			Right	3 650.50	-32.01
		Middle	Left	3 574.50	-31.20
			Right	3 675.50	-33.19
		High	Left	3 599.50	-30.71
			Right	3 700.50	-32.23
	64QAM	Low	Left	3 549.50	-29.95
			Right	3 650.50	-32.34
		Middle	Left	3 574.50	-30.51
			Right	3 675.50	-32.05
		High	Left	3 599.50	-30.86
			Right	3 700.50	-33.12
	256QAM	Low	Left	3 549.50	-29.72
			Right	3 650.50	-32.34
		Middle	Left	3 574.50	-30.58
			Right	3 675.50	-32.73
		High	Left	3 599.50	-30.83
			Right	3 700.50	-32.05

1	QPSK	Low	Left	3 549.50	-30.74
			Right	3 650.50	-31.23
		Middle	Left	3 574.50	-31.14
			Right	3 675.50	-31.29
		High	Left	3 599.50	-30.91
			Right	3 700.50	-32.28
	16QAM	Low	Left	3 549.50	-30.32
			Right	3 650.50	-33.00
		Middle	Left	3 574.50	-31.06
			Right	3 675.50	-32.25
		High	Left	3 599.50	-31.56
			Right	3 700.50	-32.62
	64QAM	Low	Left	3 549.50	-30.53
			Right	3 650.50	-32.21
		Middle	Left	3 574.50	-31.29
			Right	3 675.50	-32.64
		High	Left	3 599.50	-32.17
			Right	3 700.50	-32.41
	256QAM	Low	Left	3 549.50	-30.31
			Right	3 650.50	-32.48
Middle		Left	3 574.50	-30.65	
		Right	3 675.50	-32.66	
High		Left	3 599.50	-30.89	
		Right	3 700.50	-32.41	

Tabular Data of Contiguous Out-of-band Unwanted Emissions
CBRS NR(60 MHz 1C + 10 MHz 1C)[2C]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.70	-40.29
			Right	3 620.66	-49.69
		Middle	Left	3 589.64	-48.74
			Right	3 660.30	-39.72
		High	Left	3 629.59	-48.07
			Right	3 700.63	-45.38
	16QAM	Low	Left	3 549.61	-43.88
			Right	3 620.38	-51.27
		Middle	Left	3 589.00	-50.39
			Right	3 660.39	-40.52
		High	Left	3 629.81	-49.19
			Right	3 700.30	-43.61
	64QAM	Low	Left	3 549.70	-43.19
			Right	3 620.14	-51.01
		Middle	Left	3 589.50	-48.88
			Right	3 660.30	-40.61
		High	Left	3 629.54	-48.53
			Right	3 701.00	-45.27
	256QAM	Low	Left	3 549.70	-39.80
			Right	3 620.22	-51.62
		Middle	Left	3 589.70	-49.70
			Right	3 660.30	-41.89
		High	Left	3 629.20	-49.36
			Right	3 700.39	-44.36

1	QPSK	Low	Left	3 549.70	-41.09
			Right	3 620.84	-51.22
		Middle	Left	3 589.84	-49.07
			Right	3 660.45	-42.28
		High	Left	3 629.50	-49.69
			Right	3 700.30	-43.37
	16QAM	Low	Left	3 549.70	-43.30
			Right	3 620.05	-50.09
		Middle	Left	3 589.07	-49.85
			Right	3 660.39	-40.91
		High	Left	3 629.13	-49.03
			Right	3 700.30	-43.59
	64QAM	Low	Left	3 549.70	-43.69
			Right	3 620.80	-50.69
		Middle	Left	3 589.46	-50.03
			Right	3 660.57	-43.16
		High	Left	3 629.40	-48.45
			Right	3 700.30	-43.65
256QAM	Low	Left	3 549.18	-45.58	
		Right	3 620.12	-49.70	
	Middle	Left	3 589.69	-49.02	
		Right	3 660.30	-40.93	
	High	Left	3 629.06	-49.04	
		Right	3 700.30	-43.24	

Note: 1C: 1 Carrier, 2C: 2 Carrier

CBRS NR(80 MHz 1C + 10 MHz 1C)[2C]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.00	-40.57
			Right	3 640.65	-49.50
		Middle	Left	3 579.70	-47.26
			Right	3 670.40	-40.17
		High	Left	3 609.94	-46.61
			Right	3 700.40	-40.23
	16QAM	Low	Left	3 549.41	-41.33
			Right	3 640.20	-49.68
		Middle	Left	3 579.25	-48.58
			Right	3 670.40	-40.23
		High	Left	3 609.95	-46.81
			Right	3 700.84	-42.31
	64QAM	Low	Left	3 549.60	-39.03
			Right	3 640.05	-48.58
		Middle	Left	3 579.74	-48.79
			Right	3 670.40	-40.31
		High	Left	3 609.80	-46.74
			Right	3 700.51	-40.21
	256QAM	Low	Left	3 549.60	-40.17
			Right	3 640.99	-48.85
		Middle	Left	3 579.06	-48.45
			Right	3 670.40	-37.42
		High	Left	3 609.95	-46.74
			Right	3 700.84	-40.37

1	QPSK	Low	Left	3 549.41	-38.99
			Right	3 640.63	-49.65
		Middle	Left	3 579.23	-48.60
			Right	3 670.40	-40.26
		High	Left	3 609.06	-46.79
			Right	3 700.40	-41.46
	16QAM	Low	Left	3 549.60	-39.67
			Right	3 640.23	-48.94
		Middle	Left	3 579.81	-48.88
			Right	3 670.40	-38.93
		High	Left	3 609.44	-46.95
			Right	3 700.60	-39.82
	64QAM	Low	Left	3 549.16	-40.66
			Right	3 640.81	-48.58
		Middle	Left	3 579.32	-48.37
			Right	3 670.40	-40.07
		High	Left	3 609.13	-46.40
			Right	3 700.40	-38.76
256QAM	Low	Left	3 549.60	-38.61	
		Right	3 640.59	-48.99	
	Middle	Left	3 579.68	-48.35	
		Right	3 670.40	-38.70	
	High	Left	3 609.92	-46.60	
		Right	3 700.40	-40.74	

Note: 1C: 1 Carrier, 2C: 2 Carrier

CBRS LTE(5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C)[5C]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.98	-35.45
			Right	3 578.03	-36.14
		Middle	Left	3 612.38	-40.04
			Right	3 637.63	-40.63
		High	Left	3 674.98	-34.28
			Right	3 700.03	-35.88
	16QAM	Low	Left	3 549.98	-35.59
			Right	3 578.03	-35.45
		Middle	Left	3 612.38	-40.65
			Right	3 637.63	-40.33
		High	Left	3 674.98	-39.03
			Right	3 700.03	-39.66
	64QAM	Low	Left	3 549.98	-40.32
			Right	3 578.03	-40.12
		Middle	Left	3 612.38	-40.84
			Right	3 637.63	-39.69
		High	Left	3 674.98	-34.48
			Right	3 700.03	-36.32
	256QAM	Low	Left	3 549.98	-40.75
			Right	3 578.03	-39.91
		Middle	Left	3 612.38	-40.02
			Right	3 637.63	-40.40
		High	Left	3 674.98	-36.40
			Right	3 700.03	-37.27
1024QAM	Low	Left	3 549.98	-41.02	
		Right	3 578.03	-40.33	
	Middle	Left	3 612.38	-41.54	
		Right	3 637.63	-40.71	
	High	Left	3 674.98	-36.55	
		Right	3 700.03	-35.74	

1	QPSK	Low	Left	3 549.98	-43.61
			Right	3 578.03	-42.81
		Middle	Left	3 612.38	-41.20
			Right	3 637.63	-41.70
		High	Left	3 674.98	-38.90
			Right	3 700.03	-40.33
	16QAM	Low	Left	3 549.98	-42.85
			Right	3 578.03	-41.82
		Middle	Left	3 612.38	-40.72
			Right	3 637.63	-42.21
		High	Left	3 674.98	-38.49
			Right	3 700.03	-41.07
	64QAM	Low	Left	3 549.98	-43.01
			Right	3 578.03	-42.60
		Middle	Left	3 612.38	-41.21
			Right	3 637.63	-42.21
		High	Left	3 674.98	-38.98
			Right	3 700.03	-40.61
	256QAM	Low	Left	3 549.98	-42.85
			Right	3 578.03	-42.49
Middle		Left	3 612.38	-42.24	
		Right	3 637.63	-41.93	
High		Left	3 674.98	-38.41	
		Right	3 700.03	-40.85	
1024QAM	Low	Left	3 549.98	-40.80	
		Right	3 578.03	-41.73	
	Middle	Left	3 612.38	-41.63	
		Right	3 637.63	-41.63	
	High	Left	3 674.98	-38.67	
		Right	3 700.03	-41.45	

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS LTE(20 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C)[5C]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.80	-36.76
			Right	3 590.20	-42.27
		Middle	Left	3 604.80	-41.48
			Right	3 645.20	-35.98
		High	Left	3 659.80	-40.94
			Right	3 700.20	-37.10
	16QAM	Low	Left	3 549.80	-40.49
			Right	3 590.20	-45.06
		Middle	Left	3 604.80	-44.55
			Right	3 645.20	-38.26
		High	Left	3 659.80	-36.70
			Right	3 700.20	-37.45
	64QAM	Low	Left	3 549.80	-37.06
			Right	3 590.20	-42.55
		Middle	Left	3 604.80	-42.28
			Right	3 645.20	-34.82
		High	Left	3 659.80	-39.18
			Right	3 700.20	-36.74
	256QAM	Low	Left	3 549.80	-36.04
			Right	3 590.20	-42.86
		Middle	Left	3 604.80	-41.28
			Right	3 645.20	-36.50
		High	Left	3 659.80	-39.67
			Right	3 700.20	-37.08
1024QAM	Low	Left	3 549.80	-37.03	
		Right	3 590.20	-42.73	
	Middle	Left	3 604.80	-42.17	
		Right	3 645.20	-37.28	
	High	Left	3 659.80	-40.80	
		Right	3 700.20	-37.08	

1	QPSK	Low	Left	3 549.80	-38.85
			Right	3 590.20	-44.23
		Middle	Left	3 604.80	-41.71
			Right	3 645.20	-36.42
		High	Left	3 659.80	-40.48
			Right	3 700.20	-37.57
	16QAM	Low	Left	3 549.80	-39.79
			Right	3 590.20	-45.20
		Middle	Left	3 604.80	-44.69
			Right	3 645.20	-38.44
		High	Left	3 659.80	-41.51
			Right	3 700.20	-37.73
	64QAM	Low	Left	3 549.80	-39.94
			Right	3 590.20	-44.08
		Middle	Left	3 604.80	-41.75
			Right	3 645.20	-35.73
		High	Left	3 659.80	-41.09
			Right	3 700.20	-37.16
	256QAM	Low	Left	3 549.80	-39.52
			Right	3 590.20	-45.21
Middle		Left	3 604.80	-41.86	
		Right	3 645.20	-35.96	
High		Left	3 659.80	-39.41	
		Right	3 700.20	-38.07	
1024QAM	Low	Left	3 549.80	-40.24	
		Right	3 590.20	-44.09	
	Middle	Left	3 604.80	-42.00	
		Right	3 645.20	-36.33	
	High	Left	3 659.80	-39.86	
		Right	3 700.20	-38.09	

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS LTE(20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C)[5C]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.50	-45.27
			Right	3 650.50	-41.81
		Middle	Left	3 574.50	-43.86
			Right	3 675.50	-42.29
		High	Left	3 599.50	-42.81
			Right	3 700.50	-42.97
	16QAM	Low	Left	3 549.50	-42.83
			Right	3 650.50	-42.31
		Middle	Left	3 574.50	-41.96
			Right	3 675.50	-41.11
		High	Left	3 599.50	-39.64
			Right	3 700.50	-42.45
	64QAM	Low	Left	3 549.50	-43.58
			Right	3 650.50	-42.61
		Middle	Left	3 574.50	-43.69
			Right	3 675.50	-42.27
		High	Left	3 599.50	-42.95
			Right	3 700.50	-43.05
	256QAM	Low	Left	3 549.50	-44.03
			Right	3 650.50	-42.24
		Middle	Left	3 574.50	-43.27
			Right	3 675.50	-43.53
		High	Left	3 599.50	-42.88
			Right	3 700.50	-43.47
1024QAM	Low	Left	3 549.50	-44.44	
		Right	3 650.50	-42.59	
	Middle	Left	3 574.50	-43.66	
		Right	3 675.50	-42.04	
	High	Left	3 599.50	-42.66	
		Right	3 700.50	-43.14	

1	QPSK	Low	Left	3 549.50	-45.41
			Right	3 650.50	-43.78
		Middle	Left	3 574.50	-44.49
			Right	3 675.50	-43.93
		High	Left	3 599.50	-44.80
			Right	3 700.50	-44.60
	16QAM	Low	Left	3 549.50	-42.41
			Right	3 650.50	-44.14
		Middle	Left	3 574.50	-45.19
			Right	3 675.50	-44.38
		High	Left	3 599.50	-44.18
			Right	3 700.50	-44.17
	64QAM	Low	Left	3 549.50	-44.93
			Right	3 650.50	-43.66
		Middle	Left	3 574.50	-44.81
			Right	3 675.50	-45.27
		High	Left	3 599.50	-43.85
			Right	3 700.50	-44.16
	256QAM	Low	Left	3 549.50	-44.74
			Right	3 650.50	-45.01
Middle		Left	3 574.50	-43.81	
		Right	3 675.50	-44.41	
High		Left	3 599.50	-43.99	
		Right	3 700.50	-44.17	
1024QAM	Low	Left	3 549.50	-45.49	
		Right	3 650.50	-44.36	
	Middle	Left	3 574.50	-44.87	
		Right	3 675.50	-44.22	
	High	Left	3 599.50	-43.57	
		Right	3 700.50	-44.11	

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS NR(10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C)[5C]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.75	-40.49
			Right	3 600.25	-39.74
		Middle	Left	3 599.75	-39.46
			Right	3 650.25	-39.18
		High	Left	3 649.75	-36.32
			Right	3 700.25	-38.57
	16QAM	Low	Left	3 549.75	-38.59
			Right	3 600.25	-36.82
		Middle	Left	3 599.75	-38.73
			Right	3 650.25	-38.97
		High	Left	3 649.75	-35.49
			Right	3 700.25	-41.20
	64QAM	Low	Left	3 549.75	-39.98
			Right	3 600.25	-41.42
		Middle	Left	3 599.75	-39.41
			Right	3 650.25	-37.27
		High	Left	3 649.75	-36.35
			Right	3 700.25	-39.23
	256QAM	Low	Left	3 549.75	-41.01
			Right	3 600.25	-38.70
		Middle	Left	3 599.75	-39.59
			Right	3 650.25	-39.46
		High	Left	3 649.75	-36.76
			Right	3 700.25	-38.37

1	QPSK	Low	Left	3 549.75	-39.93
			Right	3 600.25	-38.14
		Middle	Left	3 599.75	-40.23
			Right	3 650.25	-37.04
		High	Left	3 649.75	-40.39
			Right	3 700.25	-42.63
	16QAM	Low	Left	3 549.75	-37.43
			Right	3 600.25	-38.04
		Middle	Left	3 599.75	-40.01
			Right	3 650.25	-38.59
		High	Left	3 649.75	-41.53
			Right	3 700.25	-40.69
	64QAM	Low	Left	3 549.75	-39.53
			Right	3 600.25	-39.29
		Middle	Left	3 599.75	-40.36
			Right	3 650.25	-38.70
		High	Left	3 649.75	-40.79
			Right	3 700.25	-40.62
256QAM	Low	Left	3 549.75	-38.72	
		Right	3 600.25	-38.80	
	Middle	Left	3 599.75	-39.94	
		Right	3 650.25	-37.16	
	High	Left	3 649.75	-41.64	
		Right	3 700.25	-42.95	

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS NR(40 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C)[5C]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.60	-37.11
			Right	3 630.40	-40.92
		Middle	Left	3 584.60	-37.01
			Right	3 665.40	-42.48
		High	Left	3 619.60	-43.42
			Right	3 700.40	-38.38
	16QAM	Low	Left	3 549.60	-35.00
			Right	3 630.40	-39.51
		Middle	Left	3 584.60	-38.24
			Right	3 665.40	-43.63
		High	Left	3 619.60	-43.18
			Right	3 700.40	-38.42
	64QAM	Low	Left	3 549.60	-34.56
			Right	3 630.40	-38.36
		Middle	Left	3 584.60	-37.50
			Right	3 665.40	-43.09
		High	Left	3 619.60	-43.82
			Right	3 700.40	-38.14
	256QAM	Low	Left	3 549.60	-34.22
			Right	3 630.40	-37.27
		Middle	Left	3 584.60	-37.13
			Right	3 665.40	-44.81
		High	Left	3 619.60	-41.98
			Right	3 700.40	-38.85

1	QPSK	Low	Left	3 549.60	-39.11
			Right	3 630.40	-45.33
		Middle	Left	3 584.60	-33.66
			Right	3 665.40	-37.36
		High	Left	3 619.60	-40.25
			Right	3 700.40	-35.52
	16QAM	Low	Left	3 549.60	-39.42
			Right	3 630.40	-45.09
		Middle	Left	3 584.60	-33.43
			Right	3 665.40	-38.86
		High	Left	3 619.60	-41.35
			Right	3 700.40	-34.87
	64QAM	Low	Left	3 549.60	-39.92
			Right	3 630.40	-45.62
		Middle	Left	3 584.60	-32.69
			Right	3 665.40	-38.06
		High	Left	3 619.60	-40.37
			Right	3 700.40	-35.46
256QAM	Low	Left	3 549.60	-39.50	
		Right	3 630.40	-45.57	
	Middle	Left	3 584.60	-33.04	
		Right	3 665.40	-39.39	
	High	Left	3 619.60	-40.11	
		Right	3 700.40	-34.75	

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS NR(40 MHz 1C + 30 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C)[5C]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.50	-37.84
			Right	3 650.50	-42.92
		Middle	Left	3 574.50	-36.00
			Right	3 675.50	-38.16
		High	Left	3 599.50	-43.95
			Right	3 700.50	-37.92
	16QAM	Low	Left	3 549.50	-37.16
			Right	3 650.50	-41.62
		Middle	Left	3 574.50	-35.20
			Right	3 675.50	-38.18
		High	Left	3 599.50	-43.05
			Right	3 700.50	-37.69
	64QAM	Low	Left	3 549.50	-38.28
			Right	3 650.50	-42.71
		Middle	Left	3 574.50	-36.19
			Right	3 675.50	-38.03
		High	Left	3 599.50	-43.62
			Right	3 700.50	-37.95
	256QAM	Low	Left	3 549.50	-37.81
			Right	3 650.50	-41.88
		Middle	Left	3 574.50	-35.06
			Right	3 675.50	-36.99
		High	Left	3 599.50	-43.32
			Right	3 700.50	-38.47

1	QPSK	Low	Left	3 549.50	-36.06
			Right	3 650.50	-40.82
		Middle	Left	3 574.50	-32.17
			Right	3 675.50	-32.42
		High	Left	3 599.50	-39.32
			Right	3 700.50	-33.65
	16QAM	Low	Left	3 549.50	-32.36
			Right	3 650.50	-38.62
		Middle	Left	3 574.50	-34.01
			Right	3 675.50	-34.81
		High	Left	3 599.50	-39.10
			Right	3 700.50	-34.53
	64QAM	Low	Left	3 549.50	-35.25
			Right	3 650.50	-40.80
		Middle	Left	3 574.50	-31.87
			Right	3 675.50	-33.10
		High	Left	3 599.50	-39.53
			Right	3 700.50	-34.15
	256QAM	Low	Left	3 549.50	-35.66
			Right	3 650.50	-40.09
Middle		Left	3 574.50	-32.33	
		Right	3 675.50	-33.05	
High		Left	3 599.50	-38.72	
		Right	3 700.50	-35.09	

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS NR(60 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C) [5C]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.18	-41.17
			Right	3 650.09	-48.50
		Middle	Left	3 574.55	-39.15
			Right	3 675.30	-49.52
		High	Left	3 599.62	-46.60
			Right	3 700.30	-43.16
	16QAM	Low	Left	3 549.06	-41.28
			Right	3 650.24	-49.63
		Middle	Left	3 574.61	-39.79
			Right	3 675.33	-49.47
		High	Left	3 599.22	-46.80
			Right	3 700.63	-41.92
	64QAM	Low	Left	3 549.37	-40.99
			Right	3 650.59	-48.69
		Middle	Left	3 574.61	-40.47
			Right	3 675.35	-49.77
		High	Left	3 599.40	-47.52
			Right	3 700.76	-42.32
	256QAM	Low	Left	3 549.61	-41.64
			Right	3 650.74	-48.92
		Middle	Left	3 574.55	-40.51
			Right	3 675.98	-49.70
		High	Left	3 599.81	-46.71
			Right	3 700.45	-40.88

1	QPSK	Low	Left	3 549.70	-41.06
			Right	3 650.70	-48.98
		Middle	Left	3 574.70	-39.21
			Right	3 675.37	-49.08
		High	Left	3 599.51	-46.94
			Right	3 700.88	-41.29
	16QAM	Low	Left	3 549.18	-40.91
			Right	3 650.91	-47.97
		Middle	Left	3 574.70	-37.85
			Right	3 675.11	-49.56
		High	Left	3 599.54	-47.01
			Right	3 700.30	-41.53
	64QAM	Low	Left	3 549.43	-40.89
			Right	3 650.38	-49.09
		Middle	Left	3 574.70	-38.63
			Right	3 675.80	-49.12
		High	Left	3 599.15	-47.06
			Right	3 700.51	-43.16
	256QAM	Low	Left	3 549.24	-41.92
			Right	3 650.78	-49.07
Middle		Left	3 574.55	-40.38	
		Right	3 675.64	-49.16	
High		Left	3 599.39	-46.47	
		Right	3 700.30	-41.86	

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS NR 60 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 10 MHz 1C [5C]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.70	-42.09
			Right	3 650.79	-48.61
		Middle	Left	3 574.70	-37.11
			Right	3 675.36	-48.75
		High	Left	3 599.32	-46.97
			Right	3 700.30	-42.13
	16QAM	Low	Left	3 549.70	-42.81
			Right	3 650.43	-47.69
		Middle	Left	3 574.55	-38.42
			Right	3 675.16	-49.04
		High	Left	3 599.83	-46.21
			Right	3 700.39	-41.67
	64QAM	Low	Left	3 549.70	-42.95
			Right	3 650.88	-48.85
		Middle	Left	3 574.70	-40.54
			Right	3 675.80	-48.66
		High	Left	3 599.64	-46.87
			Right	3 700.30	-42.40
	256QAM	Low	Left	3 549.70	-41.63
			Right	3 650.76	-48.87
		Middle	Left	3 574.55	-39.63
			Right	3 675.96	-48.39
		High	Left	3 599.32	-46.12
			Right	3 700.57	-42.63

1	QPSK	Low	Left	3 549.49	-44.05
			Right	3 650.35	-49.51
		Middle	Left	3 574.70	-39.42
			Right	3 675.19	-49.45
		High	Left	3 599.01	-47.06
			Right	3 700.30	-42.75
	16QAM	Low	Left	3 549.61	-43.27
			Right	3 650.12	-49.43
		Middle	Left	3 574.70	-39.14
			Right	3 675.77	-50.07
		High	Left	3 599.94	-46.64
			Right	3 700.30	-42.26
	64QAM	Low	Left	3 549.61	-42.81
			Right	3 650.14	-48.78
		Middle	Left	3 574.55	-40.70
			Right	3 676.00	-49.13
		High	Left	3 599.43	-45.87
			Right	3 700.30	-41.67
256QAM	Low	Left	3 549.70	-41.88	
		Right	3 650.37	-48.69	
	Middle	Left	3 574.55	-40.59	
		Right	3 675.97	-49.71	
	High	Left	3 599.13	-47.13	
		Right	3 700.45	-44.57	

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C [5C]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.95	-44.25
			Right	3 590.03	-41.28
		Middle	Left	3 604.98	-40.22
			Right	3 645.05	-43.67
		High	Left	3 659.98	-39.22
			Right	3 700.05	-42.44
	16QAM	Low	Left	3 549.95	-43.99
			Right	3 590.03	-40.28
		Middle	Left	3 604.98	-40.86
			Right	3 645.05	-44.11
		High	Left	3 659.98	-39.94
			Right	3 700.05	-42.91
	64QAM	Low	Left	3 549.95	-43.16
			Right	3 590.03	-39.95
		Middle	Left	3 604.98	-40.67
			Right	3 645.05	-43.62
		High	Left	3 659.98	-39.67
			Right	3 700.05	-43.39
	256QAM	Low	Left	3 549.95	-44.25
			Right	3 590.03	-40.47
		Middle	Left	3 604.98	-39.85
			Right	3 645.05	-44.28
		High	Left	3 659.98	-38.10
			Right	3 700.05	-42.85

1	QPSK	Low	Left	3 549.95	-48.22
			Right	3 590.03	-40.61
		Middle	Left	3 604.98	-42.89
			Right	3 645.05	-47.23
		High	Left	3 659.98	-40.47
			Right	3 700.05	-47.68
	16QAM	Low	Left	3 549.95	-47.62
			Right	3 590.03	-40.42
		Middle	Left	3 604.98	-43.01
			Right	3 645.05	-46.58
		High	Left	3 659.98	-39.58
			Right	3 700.05	-47.03
	64QAM	Low	Left	3 549.95	-48.37
			Right	3 590.03	-41.90
		Middle	Left	3 604.98	-41.16
			Right	3 645.05	-47.77
		High	Left	3 659.98	-41.65
			Right	3 700.05	-46.99
256QAM	Low	Left	3 549.95	-48.05	
		Right	3 590.03	-40.03	
	Middle	Left	3 604.98	-41.24	
		Right	3 645.05	-46.75	
	High	Left	3 659.98	-41.06	
		Right	3 700.05	-47.56	

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS NR 40 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C [5C]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.80	-40.10
			Right	3 625.30	-42.71
		Middle	Left	3 587.48	-42.51
			Right	3 662.55	-44.48
		High	Left	3 624.98	-41.92
			Right	3 700.20	-39.13
	16QAM	Low	Left	3 549.80	-40.01
			Right	3 625.30	-43.33
		Middle	Left	3 587.48	-42.11
			Right	3 662.55	-44.41
		High	Left	3 624.98	-41.28
			Right	3 700.20	-38.35
	64QAM	Low	Left	3 549.80	-40.03
			Right	3 625.30	-44.21
		Middle	Left	3 587.48	-41.59
			Right	3 662.55	-44.71
		High	Left	3 624.98	-42.74
			Right	3 700.20	-37.70
	256QAM	Low	Left	3 549.80	-40.91
			Right	3 625.30	-44.28
		Middle	Left	3 587.48	-42.14
			Right	3 662.55	-44.89
		High	Left	3 624.98	-43.73
			Right	3 700.20	-38.37

1	QPSK	Low	Left	3 549.80	-40.63
			Right	3 625.30	-44.84
		Middle	Left	3 587.48	-43.60
			Right	3 662.55	-46.88
		High	Left	3 624.98	-44.17
			Right	3 700.20	-40.65
	16QAM	Low	Left	3 549.80	-41.03
			Right	3 625.30	-42.84
		Middle	Left	3 587.48	-43.51
			Right	3 662.55	-46.68
		High	Left	3 624.98	-44.06
			Right	3 700.20	-40.19
	64QAM	Low	Left	3 549.80	-41.40
			Right	3 625.30	-43.90
		Middle	Left	3 587.48	-43.10
			Right	3 662.55	-46.72
		High	Left	3 624.98	-42.18
			Right	3 700.20	-40.14
	256QAM	Low	Left	3 549.80	-41.13
			Right	3 625.30	-44.29
Middle		Left	3 587.48	-42.88	
		Right	3 662.55	-46.80	
High		Left	3 624.98	-44.40	
		Right	3 700.20	-40.04	

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS NR 40 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C [5C]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.80	-39.66
			Right	3 620.03	-42.62
		Middle	Left	3 589.98	-42.07
			Right	3 660.20	-38.33
		High	Left	3 629.98	-42.19
			Right	3 700.20	-37.30
	16QAM	Low	Left	3 549.80	-39.82
			Right	3 620.03	-42.73
		Middle	Left	3 589.98	-42.72
			Right	3 660.20	-37.94
		High	Left	3 629.98	-42.90
			Right	3 700.20	-38.36
	64QAM	Low	Left	3 549.80	-39.95
			Right	3 620.03	-43.71
		Middle	Left	3 589.98	-41.91
			Right	3 660.20	-38.85
		High	Left	3 629.98	-40.56
			Right	3 700.20	-37.88
	256QAM	Low	Left	3 549.80	-39.01
			Right	3 620.03	-43.33
		Middle	Left	3 589.98	-42.27
			Right	3 660.20	-37.64
		High	Left	3 629.98	-40.70
			Right	3 700.20	-37.80

1	QPSK	Low	Left	3 549.80	-42.07
			Right	3 620.03	-43.55
		Middle	Left	3 589.98	-44.12
			Right	3 660.20	-41.62
		High	Left	3 629.98	-43.64
			Right	3 700.20	-39.32
	16QAM	Low	Left	3 549.80	-41.27
			Right	3 620.03	-44.07
		Middle	Left	3 589.98	-42.80
			Right	3 660.20	-40.06
		High	Left	3 629.98	-42.75
			Right	3 700.20	-40.34
	64QAM	Low	Left	3 549.80	-40.68
			Right	3 620.03	-42.98
		Middle	Left	3 589.98	-42.79
			Right	3 660.20	-40.23
		High	Left	3 629.98	-42.26
			Right	3 700.20	-41.16
256QAM	Low	Left	3 549.80	-42.12	
		Right	3 620.03	-44.27	
	Middle	Left	3 589.98	-43.46	
		Right	3 660.20	-39.62	
	High	Left	3 629.98	-42.84	
		Right	3 700.20	-40.65	

Note: 1C: 1 Carrier, 5C: 5 Carrier

CBRS NR 40 MHz 1C + NR 40 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C [5C]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.80	-40.39
			Right	3 645.03	-44.76
		Middle	Left	3 577.48	-44.65
			Right	3 672.70	-38.96
		High	Left	3 604.98	-44.53
			Right	3 700.20	-39.44
	16QAM	Low	Left	3 549.80	-41.05
			Right	3 645.03	-44.62
		Middle	Left	3 577.48	-43.92
			Right	3 672.70	-38.89
		High	Left	3 604.98	-42.96
			Right	3 700.20	-39.21
	64QAM	Low	Left	3 549.80	-39.48
			Right	3 645.03	-42.91
		Middle	Left	3 577.48	-43.52
			Right	3 672.70	-39.68
		High	Left	3 604.98	-43.94
			Right	3 700.20	-39.24
	256QAM	Low	Left	3 549.80	-40.12
			Right	3 645.03	-44.84
		Middle	Left	3 577.48	-42.73
			Right	3 672.70	-39.48
		High	Left	3 604.98	-44.19
			Right	3 700.20	-39.65

1	QPSK	Low	Left	3 549.80	-42.58
			Right	3 645.03	-43.94
		Middle	Left	3 577.48	-44.69
			Right	3 672.70	-40.96
		High	Left	3 604.98	-43.58
			Right	3 700.20	-39.23
	16QAM	Low	Left	3 549.80	-41.78
			Right	3 645.03	-43.79
		Middle	Left	3 577.48	-43.21
			Right	3 672.70	-40.88
		High	Left	3 604.98	-43.34
			Right	3 700.20	-39.78
	64QAM	Low	Left	3 549.80	-42.17
			Right	3 645.03	-45.12
		Middle	Left	3 577.48	-43.94
			Right	3 672.70	-40.31
		High	Left	3 604.98	-44.24
			Right	3 700.20	-39.59
256QAM	Low	Left	3 549.80	-42.36	
		Right	3 645.03	-43.97	
	Middle	Left	3 577.48	-43.17	
		Right	3 672.70	-41.05	
	High	Left	3 604.98	-43.79	
		Right	3 700.20	-39.21	

Note: 1C: 1 Carrier, 5C: 5 Carrier

Tabular Data of Non-Contiguous Out-of-band Unwanted Emissions
CBRS NR(10 MHz 1C + 60 MHz 1C)[2C]

Ant	Modulation	Carrier	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low Edge Carrier	Left	3 549.65	-51.18
			Right	3 560.97	-50.97
		High Edge Carrier	Left	3 639.61	-42.16
			Right	3 700.10	-35.31
	16QAM	Low Edge Carrier	Left	3 549.47	-51.92
			Right	3 560.09	-50.14
		High Edge Carrier	Left	3 639.70	-39.99
			Right	3 700.10	-36.70
	64QAM	Low Edge Carrier	Left	3 549.74	-50.33
			Right	3 560.12	-50.17
		High Edge Carrier	Left	3 639.70	-40.59
			Right	3 700.10	-35.30
256QAM	Low Edge Carrier	Left	3 549.30	-50.37	
		Right	3 560.05	-49.72	
	High Edge Carrier	Left	3 639.55	-42.43	
		Right	3 700.10	-38.65	
1	QPSK	Low Edge Carrier	Left	3 549.68	-50.30
			Right	3 560.76	-50.84
		High Edge Carrier	Left	3 639.70	-41.97
			Right	3 700.10	-32.53
	16QAM	Low Edge Carrier	Left	3 549.31	-49.66
			Right	3 560.33	-50.73
		High Edge Carrier	Left	3 639.70	-39.88
			Right	3 700.10	-35.70
	64QAM	Low Edge Carrier	Left	3 549.08	-50.21
			Right	3 560.38	-49.96
		High Edge Carrier	Left	3 639.70	-40.68
			Right	3 700.10	-35.39
256QAM	Low Edge Carrier	Left	3 549.31	-50.31	
		Right	3 560.46	-50.72	
	High Edge Carrier	Left	3 639.70	-40.37	
		Right	3 700.10	-35.39	

Note: 1C: 1 Carrier, 2C: 2 Carrier

CBRS NR(60 MHz 1C + 10 MHz 1C)[2C]

Ant	Modulation	Carrier	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low Edge Carrier	Left	3 549.70	-44.11
			Right	3 610.39	-45.24
		High Edge Carrier	Left	3 689.01	-51.07
			Right	3 700.74	-52.79
	16QAM	Low Edge Carrier	Left	3 549.61	-42.85
			Right	3 610.30	-42.45
		High Edge Carrier	Left	3 689.03	-52.32
			Right	3 700.27	-52.68
	64QAM	Low Edge Carrier	Left	3 549.61	-39.54
			Right	3 610.30	-39.18
		High Edge Carrier	Left	3 689.79	-51.67
			Right	3 700.54	-51.68
256QAM	Low Edge Carrier	Left	3 549.61	-41.32	
		Right	3 610.39	-43.07	
	High Edge Carrier	Left	3 689.12	-51.99	
		Right	3 700.90	-51.86	
1	QPSK	Low Edge Carrier	Left	3 549.55	-43.75
			Right	3 610.30	-43.53
		High Edge Carrier	Left	3 689.42	-52.47
			Right	3 700.78	-51.54
	16QAM	Low Edge Carrier	Left	3 549.70	-42.09
			Right	3 610.30	-41.96
		High Edge Carrier	Left	3 689.53	-51.21
			Right	3 700.37	-52.21
	64QAM	Low Edge Carrier	Left	3 549.61	-42.86
			Right	3 610.30	-41.91
		High Edge Carrier	Left	3 689.26	-50.57
			Right	3 700.05	-51.83
256QAM	Low Edge Carrier	Left	3 549.70	-43.91	
		Right	3 610.30	-41.31	
	High Edge Carrier	Left	3 689.12	-51.87	
		Right	3 700.55	-52.14	

Note: 1C: 1 Carrier, 2C: 2 Carrier

CBRS NR(10 MHz 1C + 80 MHz 1C)[2C]

Ant	Modulation	Carrier	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low Edge Carrier	Left	3 549.57	-51.49
			Right	3 560.55	-48.77
		High Edge Carrier	Left	3 619.60	-38.43
			Right	3 700.40	-44.57
	16QAM	Low Edge Carrier	Left	3 549.32	-51.67
			Right	3 560.97	-50.55
		High Edge Carrier	Left	3 619.60	-38.05
			Right	3 700.40	-41.12
	64QAM	Low Edge Carrier	Left	3 549.70	-52.40
			Right	3 560.19	-50.14
		High Edge Carrier	Left	3 619.60	-37.63
			Right	3 700.40	-41.44
256QAM	Low Edge Carrier	Left	3 549.85	-50.93	
		Right	3 560.92	-50.07	
	High Edge Carrier	Left	3 619.60	-37.22	
		Right	3 700.84	-42.74	
1	QPSK	Low Edge Carrier	Left	3 549.43	-50.02
			Right	3 560.69	-49.03
		High Edge Carrier	Left	3 619.60	-37.90
			Right	3 700.76	-43.18
	16QAM	Low Edge Carrier	Left	3 549.29	-51.76
			Right	3 560.26	-48.54
		High Edge Carrier	Left	3 619.60	-37.49
			Right	3 700.40	-42.22
	64QAM	Low Edge Carrier	Left	3 549.15	-51.21
			Right	3 560.62	-50.11
		High Edge Carrier	Left	3 619.60	-38.54
			Right	3 700.51	-41.97
256QAM	Low Edge Carrier	Left	3 549.19	-51.74	
		Right	3 560.22	-50.46	
	High Edge Carrier	Left	3 619.60	-38.90	
		Right	3 700.40	-42.25	

Note: 1C: 1 Carrier, 2C: 2 Carrier

CBRS NR(80 MHz 1C + 10 MHz 1C)[2C]

Ant	Modulation	Carrier	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low Edge Carrier	Left	3 549.60	-43.10
			Right	3 630.40	-39.29
		High Edge Carrier	Left	3 689.00	-50.79
			Right	3 700.30	-51.82
	16QAM	Low Edge Carrier	Left	3 549.60	-40.16
			Right	3 630.40	-39.86
		High Edge Carrier	Left	3 689.03	-50.52
			Right	3 700.89	-51.98
	64QAM	Low Edge Carrier	Left	3 549.49	-41.88
			Right	3 630.40	-40.11
		High Edge Carrier	Left	3 689.03	-51.88
			Right	3 700.71	-52.71
256QAM	Low Edge Carrier	Left	3 549.49	-43.92	
		Right	3 630.76	-41.51	
	High Edge Carrier	Left	3 689.35	-51.54	
		Right	3 700.08	-51.71	
1	QPSK	Low Edge Carrier	Left	3 549.49	-42.62
			Right	3 630.40	-39.28
		High Edge Carrier	Left	3 689.32	-50.31
			Right	3 700.26	-51.94
	16QAM	Low Edge Carrier	Left	3 549.41	-44.04
			Right	3 630.40	-39.42
		High Edge Carrier	Left	3 689.43	-51.23
			Right	3 700.77	-53.71
	64QAM	Low Edge Carrier	Left	3 549.60	-43.38
			Right	3 630.40	-40.86
		High Edge Carrier	Left	3 689.33	-51.11
			Right	3 701.00	-52.31
256QAM	Low Edge Carrier	Left	3 549.60	-40.69	
		Right	3 630.92	-39.70	
	High Edge Carrier	Left	3 689.06	-50.59	
		Right	3 700.95	-51.65	

Note: 1C: 1 Carrier, 2C: 2 Carrier

CBRS LTE[5 MHz 1C + (5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C)][5C(1C+4C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.98	-34.83
			Right	3 555.03	-36.55
		High	Left	3 679.98	-38.20
			Right	3 700.03	-38.68
	16QAM	Low	Left	3 549.98	-35.82
			Right	3 555.03	-35.17
		High	Left	3 679.98	-37.63
			Right	3 700.03	-37.55
	64QAM	Low	Left	3 549.98	-35.28
			Right	3 555.03	-35.14
		High	Left	3 679.98	-38.13
			Right	3 700.03	-37.84
	256QAM	Low	Left	3 549.98	-35.45
			Right	3 555.03	-36.77
		High	Left	3 679.98	-35.47
			Right	3 700.03	-35.67
1024QAM	Low	Left	3 549.98	-36.07	
		Right	3 555.03	-34.11	
	High	Left	3 679.98	-36.98	
		Right	3 700.03	-37.78	

1	QPSK	Low	Left	3 549.98	-36.39
			Right	3 555.03	-34.52
		High	Left	3 679.98	-37.84
			Right	3 700.03	-36.34
	16QAM	Low	Left	3 549.98	-36.54
			Right	3 555.03	-35.62
		High	Left	3 679.98	-36.04
			Right	3 700.03	-36.20
	64QAM	Low	Left	3 549.98	-36.95
			Right	3 555.03	-35.09
		High	Left	3 679.98	-35.45
			Right	3 700.03	-37.25
	256QAM	Low	Left	3 549.98	-36.93
			Right	3 555.03	-36.32
		High	Left	3 679.98	-35.32
			Right	3 700.03	-36.38
1024QAM	Low	Left	3 549.98	-36.15	
		Right	3 555.03	-34.71	
	High	Left	3 679.98	-36.79	
		Right	3 700.03	-39.14	

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS LTE[(5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C) + 5 MHz 1C][5C(4C+1C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.98	-36.42
			Right	3 570.03	-34.52
		High	Left	3 694.98	-35.37
			Right	3 700.03	-38.26
	16QAM	Low	Left	3 549.98	-36.51
			Right	3 570.03	-35.61
		High	Left	3 694.98	-34.58
			Right	3 700.03	-37.10
	64QAM	Low	Left	3 549.98	-34.28
			Right	3 570.03	-40.04
		High	Left	3 694.98	-35.57
			Right	3 700.03	-36.36
	256QAM	Low	Left	3 549.98	-34.10
			Right	3 570.03	-38.99
		High	Left	3 694.98	-34.28
			Right	3 700.03	-36.84
1024QAM	Low	Left	3 549.98	-35.91	
		Right	3 570.03	-35.98	
	High	Left	3 694.98	-36.54	
		Right	3 700.03	-36.42	

1	QPSK	Low	Left	3 549.98	-35.56
			Right	3 570.03	-36.88
		High	Left	3 694.98	-35.47
			Right	3 700.03	-38.45
	16QAM	Low	Left	3 549.98	-36.64
			Right	3 570.03	-36.99
		High	Left	3 694.98	-36.91
			Right	3 700.03	-36.35
	64QAM	Low	Left	3 549.98	-34.15
			Right	3 570.03	-36.85
		High	Left	3 694.98	-35.76
			Right	3 700.03	-36.99
	256QAM	Low	Left	3 549.98	-36.17
			Right	3 570.03	-36.24
		High	Left	3 694.98	-36.75
			Right	3 700.03	-34.67
1024QAM	Low	Left	3 549.98	-36.47	
		Right	3 570.03	-35.68	
	High	Left	3 694.98	-36.34	
		Right	3 700.03	-40.77	

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS LTE[5 MHz 1C + (5 MHz 1C + 5 MHz 1C + 5 MHz 1C + 20 MHz 1C)][5C(1C+4C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.98	-38.11
			Right	3 555.30	-39.75
		High	Left	3 664.98	-37.32
			Right	3 700.03	-37.94
	16QAM	Low	Left	3 549.98	-35.25
			Right	3 555.30	-36.24
		High	Left	3 664.98	-39.15
			Right	3 700.03	-38.11
	64QAM	Low	Left	3 549.98	-36.92
			Right	3 555.30	-38.95
		High	Left	3 664.98	-37.95
			Right	3 700.03	-39.21
	256QAM	Low	Left	3 549.98	-37.05
			Right	3 555.30	-37.25
		High	Left	3 664.98	-39.54
			Right	3 700.03	-39.21
1024QAM	Low	Left	3 700.03	-39.34	
		Right	3 555.30	-39.33	
	High	Left	3 664.98	-40.32	
		Right	3 700.03	-37.27	

1	QPSK	Low	Left	3 549.98	-35.68
			Right	3 555.30	-39.16
		High	Left	3 664.98	-38.72
			Right	3 700.03	-35.39
	16QAM	Low	Left	3 549.98	-35.92
			Right	3 555.30	-39.39
		High	Left	3 664.98	-38.98
			Right	3 700.03	-37.38
	64QAM	Low	Left	3 549.98	-36.36
			Right	3 555.30	-37.45
		High	Left	3 664.98	-39.59
			Right	3 700.03	-43.59
	256QAM	Low	Left	3 549.98	-42.86
			Right	3 555.30	-36.79
		High	Left	3 664.98	-36.65
			Right	3 700.03	-42.81
1024QAM	Low	Left	3 549.98	-43.85	
		Right	3 555.30	-39.74	
	High	Left	3 664.98	-39.09	
		Right	3 700.03	-44.00	

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS LTE[(20 MHz 1C + 5 MHz 1C + 5 MHz 1C + 5 MHz 1C) + 5 MHz 1C][5C(4C+1C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.90	-41.60
			Right	3 585.03	-41.67
		High	Left	3 694.98	-37.93
			Right	3 700.03	-41.07
	16QAM	Low	Left	3 549.90	-41.09
			Right	3 585.03	-39.76
		High	Left	3 694.98	-41.22
			Right	3 700.03	-37.74
	64QAM	Low	Left	3 549.90	-40.25
			Right	3 585.03	-41.49
		High	Left	3 694.98	-40.56
			Right	3 700.03	-37.74
	256QAM	Low	Left	3 700.03	-37.30
			Right	3 585.03	-41.55
		High	Left	3 694.98	-40.12
			Right	3 700.03	-38.78
1024QAM	Low	Left	3 549.90	-39.99	
		Right	3 585.03	-42.75	
	High	Left	3 694.98	-37.62	
		Right	3 700.03	-37.69	

1	QPSK	Low	Left	3 549.90	-40.30
			Right	3 585.03	-39.84
		High	Left	3 694.98	-38.86
			Right	3 700.03	-36.60
	16QAM	Low	Left	3 549.90	-41.06
			Right	3 585.03	-42.05
		High	Left	3 694.98	-39.18
			Right	3 700.03	-38.38
	64QAM	Low	Left	3 549.90	-40.31
			Right	3 585.03	-40.30
		High	Left	3 694.98	-38.87
			Right	3 700.03	-39.90
	256QAM	Low	Left	3 549.90	-42.36
			Right	3 585.03	-41.62
		High	Left	3 694.98	-38.82
			Right	3 700.03	-36.76
1024QAM	Low	Left	3 549.90	-40.08	
		Right	3 585.03	-41.65	
	High	Left	3 694.98	-38.85	
		Right	3 700.03	-37.18	

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS LTE[20 MHz 1C + (20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C)][5C(1C+4C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.90	-40.23
			Right	3 570.10	-46.90
		High	Left	3 619.90	-43.65
			Right	3 700.10	-43.40
	16QAM	Low	Left	3 549.90	-43.80
			Right	3 570.10	-49.66
		High	Left	3 619.90	-48.47
			Right	3 700.10	-43.40
	64QAM	Low	Left	3 700.10	-42.72
			Right	3 570.10	-48.70
		High	Left	3 619.90	-43.03
			Right	3 700.10	-41.55
	256QAM	Low	Left	3 549.90	-42.30
			Right	3 570.10	-50.53
		High	Left	3 619.90	-48.01
			Right	3 700.10	-41.85
	1024QAM	Low	Left	3 549.90	-43.87
			Right	3 570.10	-48.82
		High	Left	3 619.90	-49.55
			Right	3 700.10	-41.87

1	QPSK	Low	Left	3 549.90	-39.95
			Right	3 570.10	-47.62
		High	Left	3 619.90	-44.08
			Right	3 700.10	-44.02
	16QAM	Low	Left	3 549.90	-44.22
			Right	3 570.10	-51.87
		High	Left	3 619.90	-45.55
			Right	3 700.10	-44.70
	64QAM	Low	Left	3 549.90	-45.07
			Right	3 570.10	-49.13
		High	Left	3 619.90	-50.13
			Right	3 700.10	-44.00
	256QAM	Low	Left	3 549.90	-44.12
			Right	3 570.10	-48.63
		High	Left	3 619.90	-46.50
			Right	3 700.10	-44.80
1024QAM	Low	Left	3 549.90	-44.64	
		Right	3 570.10	-52.28	
	High	Left	3 619.90	-44.43	
		Right	3 700.10	-44.56	

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS LTE[(20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C) + 20 MHz 1C][5C(4C+1C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.90	-42.93
			Right	3 630.10	-48.22
		High	Left	3 679.90	-51.49
			Right	3 700.10	-42.24
	16QAM	Low	Left	3 549.90	-42.98
			Right	3 630.10	-50.87
		High	Left	3 679.90	-49.54
			Right	3 700.10	-42.07
	64QAM	Low	Left	3 549.90	-41.55
			Right	3 630.10	-50.60
		High	Left	3 679.90	-49.41
			Right	3 700.10	-41.97
	256QAM	Low	Left	3 549.90	-43.16
			Right	3 630.10	-50.73
		High	Left	3 679.90	-49.90
			Right	3 700.10	-42.50
1024QAM	Low	Left	3 549.90	-39.81	
		Right	3 630.10	-50.65	
	High	Left	3 679.90	-50.16	
		Right	3 700.10	-42.44	

1	QPSK	Low	Left	3 549.90	-38.07
			Right	3 630.10	-50.05
		High	Left	3 679.90	-47.59
			Right	3 700.10	-43.38
	16QAM	Low	Left	3 549.90	-44.80
			Right	3 630.10	-49.22
		High	Left	3 679.90	-50.19
			Right	3 700.10	-43.94
	64QAM	Low	Left	3 549.90	-44.09
			Right	3 630.10	-49.15
		High	Left	3 679.90	-49.53
			Right	3 700.10	-43.55
	256QAM	Low	Left	3 549.90	-43.60
			Right	3 630.10	-45.98
		High	Left	3 679.90	-50.76
			Right	3 700.10	-43.40
1024QAM	Low	Left	3 549.90	-41.68	
		Right	3 630.10	-50.50	
	High	Left	3 679.90	-50.10	
		Right	3 700.10	-43.94	

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS NR[10 MHz 1C + (10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C)][5C(1C+4C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.95	-38.40
			Right	3 560.05	-48.50
		High	Left	3 659.95	-48.30
			Right	3 700.20	-36.41
	16QAM	Low	Left	3 549.95	-37.83
			Right	3 560.05	-48.22
		High	Left	3 659.95	-48.88
			Right	3 700.20	-37.79
	64QAM	Low	Left	3 549.95	-38.45
			Right	3 560.05	-46.67
		High	Left	3 659.95	-49.29
			Right	3 700.20	-37.74
	256QAM	Low	Left	3 549.95	-38.52
			Right	3 560.05	-47.52
		High	Left	3 659.95	-48.46
			Right	3 700.20	-38.44
1	QPSK	Low	Left	3 549.95	-36.04
			Right	3 560.05	-46.88
		High	Left	3 659.95	-48.29
			Right	3 700.20	-38.04
	16QAM	Low	Left	3 549.95	-35.45
			Right	3 560.05	-50.24
		High	Left	3 659.95	-52.39
			Right	3 700.20	-38.53
	64QAM	Low	Left	3 549.95	-35.76
			Right	3 560.05	-48.86
		High	Left	3 659.95	-49.07
			Right	3 700.20	-38.33
	256QAM	Low	Left	3 549.95	-35.90
			Right	3 560.05	-48.50
		High	Left	3 659.95	-51.16
			Right	3 700.20	-37.92

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS NR[(10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C) + 10 MHz 1C][5C(4C+1C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.80	-35.93
			Right	3 590.05	-50.96
		High	Left	3 689.95	-51.40
			Right	3 700.05	-36.14
	16QAM	Low	Left	3 549.80	-34.84
			Right	3 590.05	-50.72
		High	Left	3 689.95	-50.07
			Right	3 700.05	-38.17
	64QAM	Low	Left	3 549.80	-35.78
			Right	3 590.05	-50.24
		High	Left	3 689.95	-49.81
			Right	3 700.05	-35.27
	256QAM	Low	Left	3 549.80	-36.20
			Right	3 590.05	-50.82
		High	Left	3 689.95	-51.04
			Right	3 700.05	-35.27
1	QPSK	Low	Left	3 700.05	-35.27
			Right	3 590.05	-53.38
		High	Left	3 689.95	-47.06
			Right	3 700.05	-35.59
	16QAM	Low	Left	3 549.80	-33.84
			Right	3 590.05	-48.30
		High	Left	3 689.95	-50.26
			Right	3 700.05	-35.30
	64QAM	Low	Left	3 549.80	-34.88
			Right	3 590.05	-49.60
		High	Left	3 689.95	-47.36
			Right	3 700.05	-34.82
	256QAM	Low	Left	3 549.80	-33.90
			Right	3 590.05	-49.87
		High	Left	3 689.95	-47.13
			Right	3 700.05	-34.26

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS NR[10 MHz 1C + (10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 40 MHz 1C)][5C(1C+4C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.95	-45.86
			Right	3 560.65	-53.83
		High	Left	3 629.95	-53.35
			Right	3 700.20	-37.76
	16QAM	Low	Left	3 549.95	-46.03
			Right	3 560.65	-52.44
		High	Left	3 629.95	-50.54
			Right	3 700.20	-38.13
	64QAM	Low	Left	3 549.95	-46.31
			Right	3 560.65	-50.98
		High	Left	3 629.95	-50.17
			Right	3 700.20	-37.74
	256QAM	Low	Left	3 549.95	-46.19
			Right	3 560.65	-54.67
		High	Left	3 629.95	-52.20
			Right	3 700.20	-37.90
1	QPSK	Low	Left	3 549.95	-48.01
			Right	3 560.65	-51.14
		High	Left	3 629.95	-53.06
			Right	3 700.20	-40.84
	16QAM	Low	Left	3 549.95	-47.88
			Right	3 560.65	-53.01
		High	Left	3 629.95	-54.33
			Right	3 700.20	-40.24
	64QAM	Low	Left	3 549.95	-48.28
			Right	3 560.65	-53.32
		High	Left	3 629.95	-53.74
			Right	3 700.20	-40.42
	256QAM	Low	Left	3 549.95	-47.69
			Right	3 560.65	-52.25
		High	Left	3 629.95	-52.46
			Right	3 700.20	-40.89

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS NR[(40 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C) + 10 MHz 1C][5C(4C+1C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.80	-39.82
			Right	3 620.05	-54.46
		High	Left	3 689.95	-52.82
			Right	3 700.05	-46.47
	16QAM	Low	Left	3 549.80	-40.90
			Right	3 620.05	-54.49
		High	Left	3 689.95	-52.99
			Right	3 700.05	45.56
	64QAM	Low	Left	3 549.80	-39.50
			Right	3 620.05	-52.88
		High	Left	3 689.95	-53.40
			Right	3 700.05	-45.36
	256QAM	Low	Left	3 549.80	-40.07
			Right	3 620.05	-52.49
		High	Left	3 689.95	-53.86
			Right	3 700.05	-45.46
1	QPSK	Low	Left	3 549.80	-40.85
			Right	3 620.05	-53.41
		High	Left	3 689.95	-53.52
			Right	3 700.05	-47.08
	16QAM	Low	Left	3 549.80	-40.87
			Right	3 620.05	-52.57
		High	Left	3 689.95	-52.94
			Right	3 700.05	-46.57
	64QAM	Low	Left	3 549.80	-41.15
			Right	3 620.05	-52.79
		High	Left	3 689.95	-53.15
			Right	3 700.05	-46.93
	256QAM	Low	Left	3 549.80	-40.79
			Right	3 620.05	-53.35
		High	Left	3 689.95	-52.49
			Right	3 700.05	-46.68

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS NR[10 MHz 1C + (10 MHz 1C + 10 MHz 1C + 30 MHz 1C + 40 MHz 1C)][5C(1C+4C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.95	-46.79
			Right	3 560.05	-55.40
		High	Left	3 609.95	-48.88
			Right	3 700.20	-39.49
	16QAM	Low	Left	3 549.95	-47.07
			Right	3 560.05	-55.82
		High	Left	3 609.95	-52.48
			Right	3 700.20	-39.28
	64QAM	Low	Left	3 549.95	-47.22
			Right	3 560.05	-55.10
		High	Left	3 609.95	-53.11
			Right	3 700.20	-38.89
	256QAM	Low	Left	3 549.95	-47.04
			Right	3 560.05	-56.13
		High	Left	3 609.95	-51.61
			Right	3 700.20	-38.76
1	QPSK	Low	Left	3 549.95	-47.13
			Right	3 560.05	-55.74
		High	Left	3 609.95	-52.25
			Right	3 700.20	-40.80
	16QAM	Low	Left	3 549.95	-48.12
			Right	3 560.05	-54.91
		High	Left	3 609.95	-52.25
			Right	3 700.20	-41.37
	64QAM	Low	Left	3 549.95	-47.71
			Right	3 560.05	-53.79
		High	Left	3 609.95	-53.46
			Right	3 700.20	-40.68
	256QAM	Low	Left	3 549.95	-47.92
			Right	3 560.05	-53.82
		High	Left	3 609.95	-50.17
			Right	3 700.20	-40.51

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS NR[(40 MHz 1C + 30 MHz 1C + 10 MHz 1C + 10 MHz 1C) + 10 MHz 1C][5C(4C+1C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.80	-38.77
			Right	3 640.05	-53.05
		High	Left	3 689.95	-54.69
			Right	3 700.05	-45.65
	16QAM	Low	Left	3 549.80	-38.61
			Right	3 640.05	-54.50
		High	Left	3 689.95	-53.78
			Right	3 700.05	-45.83
	64QAM	Low	Left	3 549.80	-39.61
			Right	3 640.05	-53.22
		High	Left	3 689.95	-52.44
			Right	3 700.05	-46.15
	256QAM	Low	Left	3 549.80	39.41
			Right	3 640.05	-52.61
		High	Left	3 689.95	-53.43
			Right	3 700.05	-46.74
1	QPSK	Low	Left	3 549.80	-41.89
			Right	3 640.05	-54.07
		High	Left	3 689.95	-53.03
			Right	3 700.05	-49.99
	16QAM	Low	Left	3 549.80	-40.73
			Right	3 640.05	-54.68
		High	Left	3 689.95	-55.24
			Right	3 700.05	-47.23
	64QAM	Low	Left	3 549.80	-41.76
			Right	3 640.05	-53.27
		High	Left	3 689.95	-53.65
			Right	3 700.05	-47.22
	256QAM	Low	Left	3 549.80	-41.13
			Right	3 640.05	-54.47
		High	Left	3 689.95	-55.11
			Right	3 700.05	-46.99

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS NR[60 MHz 1C + (10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C)][5C(1C+4C)]

Ant	Modulation	Carrier	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low Edge Carrier	Left	3 549.61	-44.03
			Right	3 610.30	-39.02
		High Edge Carrier	Left	3 659.07	-48.65
			Right	3 700.65	-50.76
	16QAM	Low Edge Carrier	Left	3 549.70	-41.71
			Right	3 610.30	-41.25
		High Edge Carrier	Left	3 659.79	-49.59
			Right	3 700.05	-51.50
	64QAM	Low Edge Carrier	Left	3 549.70	-42.55
			Right	3 610.30	-41.92
		High Edge Carrier	Left	3 659.53	-49.27
			Right	3 700.32	-51.76
256QAM	Low Edge Carrier	Left	3 549.70	-42.76	
		Right	3 610.30	-40.71	
	High Edge Carrier	Left	3 659.69	-48.77	
		Right	3 700.05	-51.74	
1	QPSK	Low Edge Carrier	Left	3 549.70	-44.10
			Right	3 610.39	-40.50
		High Edge Carrier	Left	3 659.87	-48.66
			Right	3 700.20	-51.59
	16QAM	Low Edge Carrier	Left	3 549.61	-44.52
			Right	3 610.51	-41.47
		High Edge Carrier	Left	3 659.67	-49.47
			Right	3 700.67	-50.74
	64QAM	Low Edge Carrier	Left	3 549.70	-43.29
			Right	3 610.30	-41.77
		High Edge Carrier	Left	3 659.75	-48.82
			Right	3 700.43	-50.62
256QAM	Low Edge Carrier	Left	3 549.70	-40.78	
		Right	3 610.39	-41.74	
	High Edge Carrier	Left	3 659.83	-50.29	
		Right	3 700.80	-52.52	

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS NR[(10 MHz 1C + 10 MHz 1C + 10 MHz 1C + 10 MHz 1C) + 60 MHz 1C][5C(4C+1C)]

Ant	Modulation	Carrier	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low Edge Carrier	Left	3 549.09	-51.07
			Right	3 590.36	-48.32
		High Edge Carrier	Left	3 639.70	-37.44
			Right	3 700.30	-42.00
	16QAM	Low Edge Carrier	Left	3 549.18	-51.23
			Right	3 590.05	-48.48
		High Edge Carrier	Left	3 639.61	-40.66
			Right	3 700.30	-42.23
	64QAM	Low Edge Carrier	Left	3 549.94	-50.98
			Right	3 590.85	-48.50
		High Edge Carrier	Left	3 639.70	-40.90
			Right	3 700.30	-42.61
	256QAM	Low Edge Carrier	Left	3 549.75	-51.32
			Right	3 590.16	-47.56
		High Edge Carrier	Left	3 639.70	-39.90
			Right	3 700.30	-44.12
1	QPSK	Low Edge Carrier	Left	3 549.11	-50.89
			Right	3 590.76	-49.39
		High Edge Carrier	Left	3 639.70	-39.19
			Right	3 700.45	-43.66
	16QAM	Low Edge Carrier	Left	3 549.92	-50.79
			Right	3 590.93	-49.17
		High Edge Carrier	Left	3 639.06	-41.52
			Right	3 700.45	-44.78
	64QAM	Low Edge Carrier	Left	3 549.17	-50.40
			Right	3 590.30	-49.57
		High Edge Carrier	Left	3 639.70	-40.46
			Right	3 700.45	-43.12
	256QAM	Low Edge Carrier	Left	3 549.73	-49.93
			Right	3 590.10	-46.73
		High Edge Carrier	Left	3 639.70	-40.17
			Right	3 700.39	-44.08

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS NR 60 MHz 1C + (NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 10 MHz 1C)[5C(1C+4C)]

Ant	Modulation	Carrier	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low Edge Carrier	Left	3 549.70	-41.39
			Right	3 610.39	-42.05
		High Edge Carrier	Left	3 659.12	-48.80
			Right	3 700.38	-49.11
	16QAM	Low Edge Carrier	Left	3 549.49	-44.30
			Right	3 610.39	-41.09
		High Edge Carrier	Left	3 659.89	-48.94
			Right	3 700.81	-50.52
	64QAM	Low Edge Carrier	Left	3 549.61	-40.65
			Right	3 610.30	-40.92
		High Edge Carrier	Left	3 659.25	-49.42
			Right	3 700.68	-52.21
	256QAM	Low Edge Carrier	Left	3 549.70	-40.91
			Right	3 610.39	-41.41
		High Edge Carrier	Left	3 659.86	-49.02
			Right	3 700.69	-49.89
1	QPSK	Low Edge Carrier	Left	3 549.70	-43.47
			Right	3 610.82	-41.72
		High Edge Carrier	Left	3 659.57	-49.13
			Right	3 700.65	-51.52
	16QAM	Low Edge Carrier	Left	3 549.55	-43.54
			Right	3 610.94	-41.47
		High Edge Carrier	Left	3 659.45	-49.24
			Right	3 700.22	-50.80
	64QAM	Low Edge Carrier	Left	3 549.70	-42.87
			Right	3 610.30	-40.58
		High Edge Carrier	Left	3 659.58	-48.83
			Right	3 700.56	-51.36
	256QAM	Low Edge Carrier	Left	3 549.61	-42.98
			Right	3 610.30	-39.26
		High Edge Carrier	Left	3 659.41	-48.93
			Right	3 700.41	-51.03

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS (LTE 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C) + NR 60 MHz 1C [5C(4C+1C)]

Ant	Modulation	Carrier	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low Edge Carrier	Left	3 549.57	-50.51
			Right	3 590.52	-49.09
		High Edge Carrier	Left	3 639.70	-38.65
			Right	3 700.39	-44.70
	16QAM	Low Edge Carrier	Left	3 549.24	-50.34
			Right	3 590.96	-48.61
		High Edge Carrier	Left	3 639.70	-38.47
			Right	3 700.45	-45.51
	64QAM	Low Edge Carrier	Left	3 549.57	-51.73
			Right	3 590.21	-47.82
		High Edge Carrier	Left	3 639.70	-37.44
			Right	3 700.39	-45.41
	256QAM	Low Edge Carrier	Left	3 549.32	-51.96
			Right	3 590.73	-48.01
		High Edge Carrier	Left	3 639.55	-39.18
			Right	3 700.30	-43.13
1	QPSK	Low Edge Carrier	Left	3 549.09	-51.05
			Right	3 590.25	-47.74
		High Edge Carrier	Left	3 639.61	-38.84
			Right	3 700.30	-42.65
	16QAM	Low Edge Carrier	Left	3 549.91	-49.40
			Right	3 590.87	-48.59
		High Edge Carrier	Left	3 639.61	-41.30
			Right	3 700.45	-45.13
	64QAM	Low Edge Carrier	Left	3 549.32	-50.14
			Right	3 590.73	-48.95
		High Edge Carrier	Left	3 639.70	-39.94
			Right	3 700.39	-44.12
	256QAM	Low Edge Carrier	Left	3 549.81	-50.78
			Right	3 590.67	-48.83
		High Edge Carrier	Left	3 639.61	-39.95
			Right	3 700.30	-44.07

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS LTE 5 MHz 1C + (LTE 5 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C) [5C(1C+4C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.98	-40.02
			Right	3 555.03	-42.42
		High	Left	3 664.98	-41.57
			Right	3 700.05	-44.29
	16QAM	Low	Left	3 549.98	-41.25
			Right	3 555.03	-41.59
		High	Left	3 664.98	-41.29
			Right	3 700.05	-43.33
	64QAM	Low	Left	3 549.98	-40.53
			Right	3 555.03	-41.18
		High	Left	3 664.98	-42.26
			Right	3 700.05	-43.08
	256QAM	Low	Left	3 549.98	-40.89
			Right	3 555.03	-40.73
		High	Left	3 664.98	-40.92
			Right	3 700.05	-42.60
1	QPSK	Low	Left	3 549.98	-40.32
			Right	3 555.03	-40.49
		High	Left	3 664.98	-40.46
			Right	3 700.05	-46.09
	16QAM	Low	Left	3 549.98	-41.06
			Right	3 555.03	-41.39
		High	Left	3 664.98	-40.39
			Right	3 700.05	-46.59
	64QAM	Low	Left	3 549.98	-40.12
			Right	3 555.03	-40.88
		High	Left	3 664.98	-40.20
			Right	3 700.05	-46.33
	256QAM	Low	Left	3 549.98	-41.47
			Right	3 555.03	-41.42
		High	Left	3 664.98	-40.69
			Right	3 700.05	-46.21

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS (NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C) + LTE 5 MHz 1C [5C(4C+1C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.95	-41.57
			Right	3 585.03	-42.25
		High	Left	3 694.98	0.00
			Right	3 700.03	-39.73
	16QAM	Low	Left	3 549.95	-41.88
			Right	3 585.03	-42.81
		High	Left	3 694.98	-39.89
			Right	3 700.03	-39.46
	64QAM	Low	Left	3 549.95	-41.46
			Right	3 585.03	-41.28
		High	Left	3 694.98	-40.29
			Right	3 700.03	-40.06
	256QAM	Low	Left	3 549.95	-40.84
			Right	3 585.03	-43.18
		High	Left	3 694.98	-40.74
			Right	3 700.03	-40.38
1	QPSK	Low	Left	3 549.95	-46.22
			Right	3 585.03	-41.38
		High	Left	3 549.95	-41.12
			Right	3 585.03	-41.40
	16QAM	Low	Left	3 549.95	-46.16
			Right	3 585.03	-40.34
		High	Left	3 549.95	-41.01
			Right	3 585.03	-41.92
	64QAM	Low	Left	3 549.95	-45.91
			Right	3 585.03	-41.54
		High	Left	3 549.95	-41.73
			Right	3 585.03	-40.53
	256QAM	Low	Left	3 549.95	-46.39
			Right	3 585.03	-41.76
		High	Left	3 549.95	-40.38
			Right	3 585.03	-40.91

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS LTE 5 MHz 1C + (NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 40 MHz 1C) [5C(1C+4C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.98	-42.25
			Right	3 555.03	-44.12
		High	Left	3 629.95	-52.47
			Right	3 700.20	-38.74
	16QAM	Low	Left	3 549.98	-41.59
			Right	3 555.03	-44.46
		High	Left	3 629.95	-52.50
			Right	3 700.20	-39.12
	64QAM	Low	Left	3 549.98	-43.49
			Right	3 555.03	-43.14
		High	Left	3 629.95	-51.44
			Right	3 700.20	-37.89
	256QAM	Low	Left	3 549.98	-43.49
			Right	3 555.03	-43.11
		High	Left	3 629.95	-53.26
			Right	3 700.20	-39.26
1	QPSK	Low	Left	3 549.98	-43.19
			Right	3 555.03	-44.29
		High	Left	3 629.95	-53.60
			Right	3 700.20	-39.98
	16QAM	Low	Left	3 549.98	-43.35
			Right	3 555.03	-44.70
		High	Left	3 629.95	-53.83
			Right	3 700.20	-39.71
	64QAM	Low	Left	3 549.98	-43.96
			Right	3 555.03	-43.99
		High	Left	3 629.95	-53.53
			Right	3 700.20	-39.94
	256QAM	Low	Left	3 549.98	-44.87
			Right	3 555.03	-43.50
		High	Left	3 629.95	-52.40
			Right	3 700.20	-40.20

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS (NR 40 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C) + LTE 5 MHz 1C [5C(4C+1C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.80	-38.10
			Right	3 620.05	-52.51
		High	Left	3 694.98	-45.12
			Right	3 700.03	-43.38
	16QAM	Low	Left	3 549.80	-38.83
			Right	3 620.05	-53.43
		High	Left	3 694.98	-44.70
			Right	3 700.03	-42.63
	64QAM	Low	Left	3 549.80	-38.33
			Right	3 620.05	-52.45
		High	Left	3 694.98	-44.92
			Right	3 700.03	-41.89
	256QAM	Low	Left	3 549.80	-39.68
			Right	3 620.05	-54.20
		High	Left	3 694.98	-44.07
			Right	3 700.03	-42.37
1	QPSK	Low	Left	3 549.80	-41.06
			Right	3 620.05	-53.29
		High	Left	3 694.98	-47.77
			Right	3 700.03	-43.61
	16QAM	Low	Left	3 549.80	-40.74
			Right	3 620.05	-51.24
		High	Left	3 694.98	-46.31
			Right	3 700.03	-44.12
	64QAM	Low	Left	3 549.80	-40.94
			Right	3 620.05	-53.70
		High	Left	3 694.98	-44.55
			Right	3 700.03	-43.89
	256QAM	Low	Left	3 549.80	-41.91
			Right	3 620.05	-52.93
		High	Left	3 694.98	-44.34
			Right	3 700.03	-43.32

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS LTE 5 MHz 1C + (LTE 5 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + NR 40 MHz 1C) [5C(1C+4C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.98	-43.65
			Right	3 555.03	-42.86
		High	Left	3 634.98	-44.58
			Right	3 700.20	-37.73
	16QAM	Low	Left	3 549.98	-42.89
			Right	3 555.03	-43.48
		High	Left	3 634.98	-43.05
			Right	3 700.20	-38.56
	64QAM	Low	Left	3 549.98	-42.71
			Right	3 555.03	-44.48
		High	Left	3 634.98	-43.43
			Right	3 700.20	-37.58
	256QAM	Low	Left	3 549.98	-41.71
			Right	3 555.03	-44.47
		High	Left	3 634.98	-42.93
			Right	3 700.20	-38.25
1	QPSK	Low	Left	3 549.98	-43.60
			Right	3 555.03	-43.13
		High	Left	3 634.98	-43.15
			Right	3 700.20	-40.64
	16QAM	Low	Left	3 549.98	-43.09
			Right	3 555.03	-43.62
		High	Left	3 634.98	-43.99
			Right	3 700.20	-40.88
	64QAM	Low	Left	3 549.98	-42.96
			Right	3 555.03	-45.45
		High	Left	3 634.98	-45.69
			Right	3 700.20	-38.92
	256QAM	Low	Left	3 549.98	-42.94
			Right	3 555.03	-43.47
		High	Left	3 634.98	-45.87
			Right	3 700.20	-41.14

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS (NR 40 MHz 1C + NR 10 MHz 1C + NR 10 MHz 1C + LTE 5 MHz 1C) + LTE 5 MHz 1C [5C(4C+1C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.80	-38.58
			Right	3 615.03	-43.58
		High	Left	3 694.98	-43.69
			Right	3 700.03	-42.82
	16QAM	Low	Left	3 549.80	-38.15
			Right	3 615.03	-44.11
		High	Left	3 694.98	-45.04
			Right	3 700.03	-43.08
	64QAM	Low	Left	3 549.80	-38.13
			Right	3 615.03	-44.11
		High	Left	3 694.98	-44.88
			Right	3 700.03	-42.86
	256QAM	Low	Left	3 549.80	-37.62
			Right	3 615.03	-44.67
		High	Left	3 694.98	-44.40
			Right	3 700.03	-43.99
1	QPSK	Low	Left	3 549.80	-40.82
			Right	3 615.03	-43.00
		High	Left	3 694.98	-43.92
			Right	3 700.03	-42.73
	16QAM	Low	Left	3 549.80	-40.22
			Right	3 615.03	-44.62
		High	Left	3 694.98	-44.17
			Right	3 700.03	-43.88
	64QAM	Low	Left	3 549.80	-40.88
			Right	3 615.03	-45.59
		High	Left	3 694.98	-43.17
			Right	3 700.03	-44.38
	256QAM	Low	Left	3 549.80	-40.61
			Right	3 615.03	-43.91
		High	Left	3 694.98	-42.86
			Right	3 700.03	-42.65

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS LTE 5 MHz 1C + (LTE 5 MHz 1C + LTE 5 MHz 1C + NR 40 MHz 1C + NR 40 MHz 1C) [5C(1C+4C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.98	-45.12
			Right	3 555.03	-45.61
		High	Left	3 609.98	-43.50
			Right	3 700.20	-39.60
	16QAM	Low	Left	3 549.98	-44.71
			Right	3 555.03	-45.95
		High	Left	3 609.98	-47.14
			Right	3 700.20	-39.31
	64QAM	Low	Left	3 549.98	-44.15
			Right	3 555.03	-44.87
		High	Left	3 609.98	-44.96
			Right	3 700.20	-39.98
	256QAM	Low	Left	3 549.98	-44.10
			Right	3 555.03	-45.27
		High	Left	3 609.98	-43.97
			Right	3 700.20	-38.87
1	QPSK	Low	Left	3 549.98	-46.63
			Right	3 555.03	-45.44
		High	Left	3 609.98	-43.42
			Right	3 700.20	-40.98
	16QAM	Low	Left	3 549.98	-42.76
			Right	3 555.03	-46.39
		High	Left	3 609.98	-44.48
			Right	3 700.20	-40.51
	64QAM	Low	Left	3 549.98	-44.49
			Right	3 555.03	-45.33
		High	Left	3 609.98	-46.27
			Right	3 700.20	-41.31
	256QAM	Low	Left	3 549.98	-43.92
			Right	3 555.03	-43.62
		High	Left	3 609.98	-45.40
			Right	3 700.20	-41.17

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

CBRS (NR 40 MHz 1C + NR 40 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C) + LTE 5 MHz 1C [5C(4C+1C)]

Ant	Modulation	Channel	Edge Position	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	Left	3 549.80	-40.15
			Right	3 640.03	-46.31
		High	Left	3 694.98	-45.69
			Right	3 700.03	-43.99
	16QAM	Low	Left	3 549.80	-40.48
			Right	3 640.03	-45.51
		High	Left	3 694.98	-43.87
			Right	3 700.03	-44.72
	64QAM	Low	Left	3 549.80	-40.43
			Right	3 640.03	-46.23
		High	Left	3 694.98	-43.55
			Right	3 700.03	-45.30
	256QAM	Low	Left	3 549.80	-40.11
			Right	3 640.03	-44.68
		High	Left	3 694.98	-45.89
			Right	3 700.03	-44.27
1	QPSK	Low	Left	3 549.80	-42.01
			Right	3 640.03	-44.07
		High	Left	3 694.98	-43.09
			Right	3 700.03	-42.78
	16QAM	Low	Left	3 549.80	-40.19
			Right	3 640.03	-45.11
		High	Left	3 694.98	-44.96
			Right	3 700.03	-43.96
	64QAM	Low	Left	3 549.80	-41.13
			Right	3 640.03	-45.39
		High	Left	3 694.98	-44.31
			Right	3 700.03	-44.00
	256QAM	Low	Left	3 549.80	-41.37
			Right	3 640.03	-44.45
		High	Left	3 694.98	-46.20
			Right	3 700.03	-44.38

Note: 1C: 1 Carrier, 4C: 4 Carrier, 5C: 5 Carrier

Plot Data of Out-of-band Unwanted Emissions

Antenna 0 / CBRS LTE 5 MHz 1 Carrier / 1024QAM / Low Left



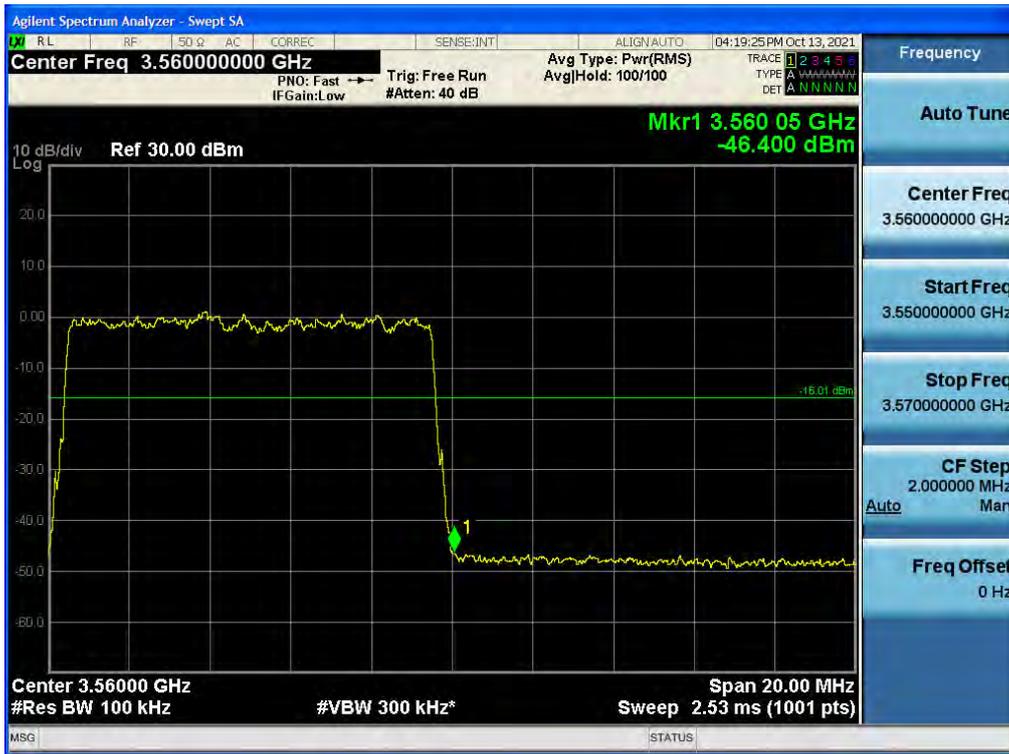
Antenna 1 / CBRS LTE 5 MHz 1 Carrier / 1024QAM / Middle Left



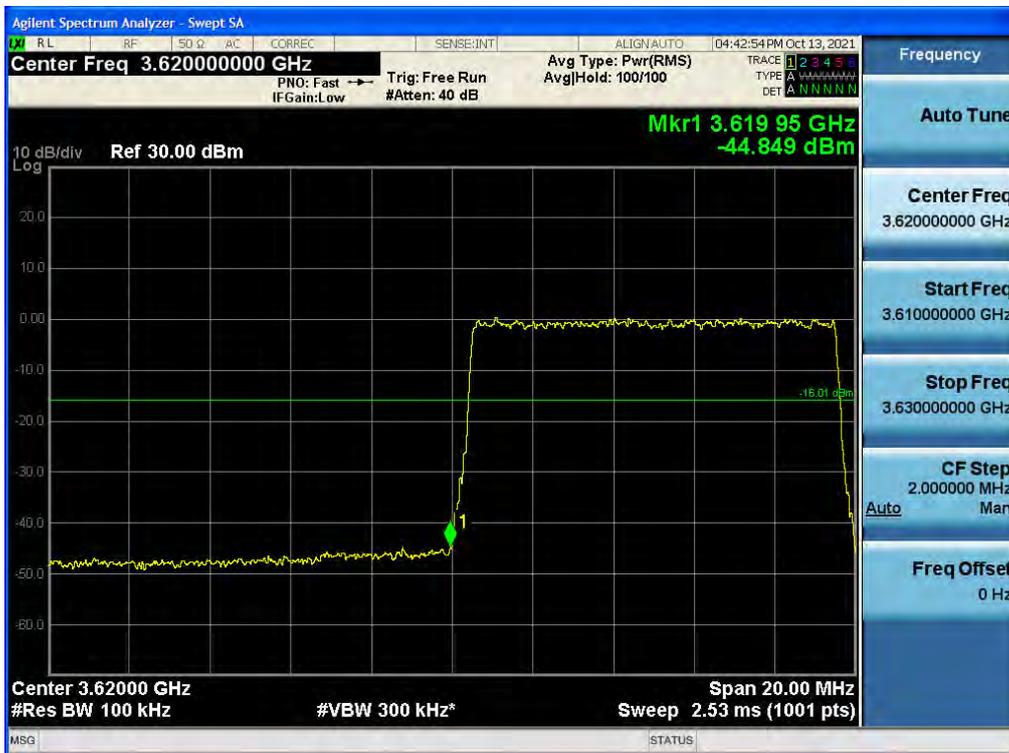
Antenna 1 / CBRS LTE 5 MHz 1 Carrier / 1024QAM / High Left



Antenna 1 / CBRS LTE 10 MHz 1 Carrier / 16QAM / Low Right



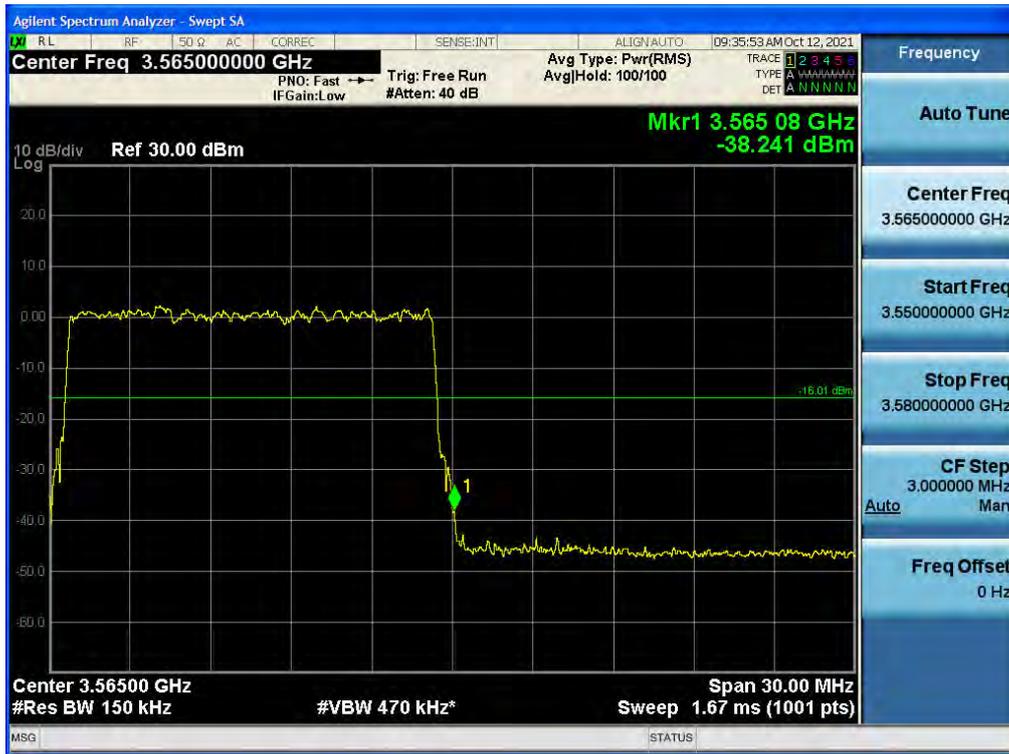
Antenna 1 / CBRS LTE 10 MHz 1 Carrier / 64QAM / Middle Left



Antenna 1 / CBRS LTE 10 MHz 1 Carrier / 1024QAM / High Left



Antenna 0 / CBRS LTE 15 MHz 1 Carrier / 16QAM / Low Right



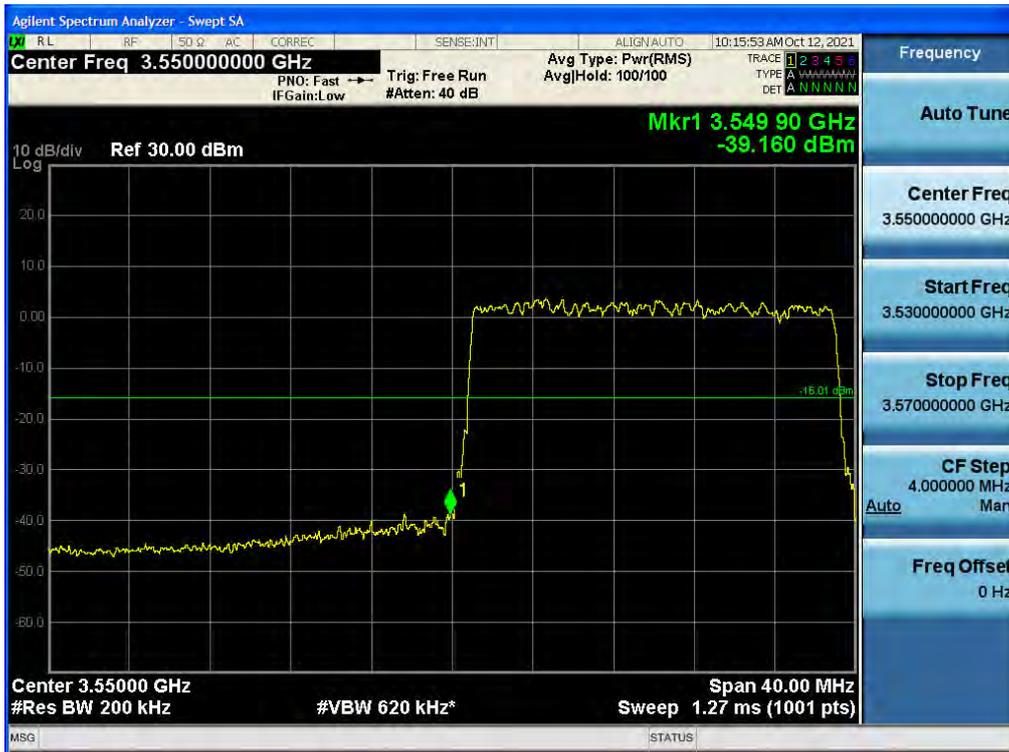
Antenna 0 / CBRS LTE 15 MHz 1 Carrier / 16QAM / Middle Left



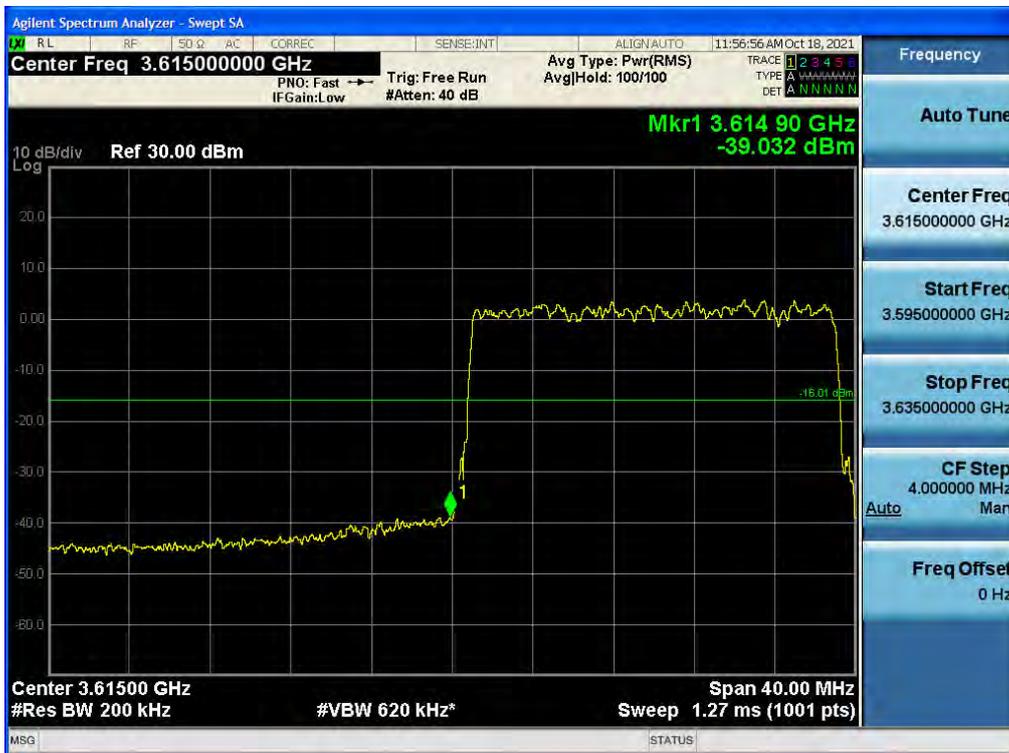
Antenna 0 / CBRS LTE 15 MHz 1 Carrier / 1024QAM / High Left



Antenna 0 / CBRS LTE 20 MHz 1 Carrier / QPSK / Low Left



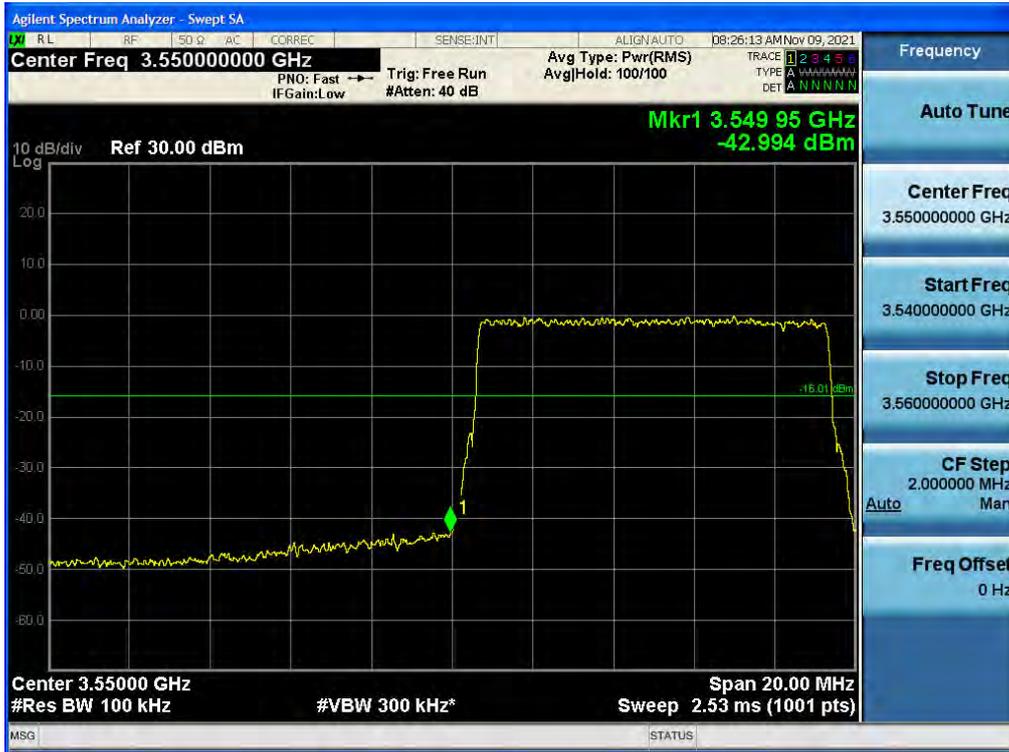
Antenna 1 / CBRS LTE 20 MHz 1 Carrier / QPSK / Middle Left



Antenna 0 / CBRS LTE 20 MHz 1 Carrier / 1024QAM / High Left



Antenna 0 / CBRS NR 10 MHz 1 Carrier / 256QAM / Low Left



Antenna 0 / CBRS NR 10 MHz 1 Carrier / 64QAM / Middle Right



Antenna 0 / CBRS NR 10 MHz 1 Carrier / 64QAM / High Left



Antenna 0 / CBRS NR 20 MHz 1 Carrier / QPSK / Low Right



Antenna 0 / CBRS NR 20 MHz 1 Carrier / 64QAM / Middle Left



Antenna 0 / CBRS NR 20 MHz 1 Carrier / 64QAM / High Left



Antenna 0 / CBRS NR 30 MHz 1 Carrier / 256QAM / Low Right



Antenna 0 / CBRS NR 30 MHz 1 Carrier / 256QAM / Middle Left



Antenna 0 / CBRS NR 30 MHz 1 Carrier / QPSK / High Left



Antenna 0 / CBRS NR 40 MHz 1 Carrier / 64QAM / Low Left



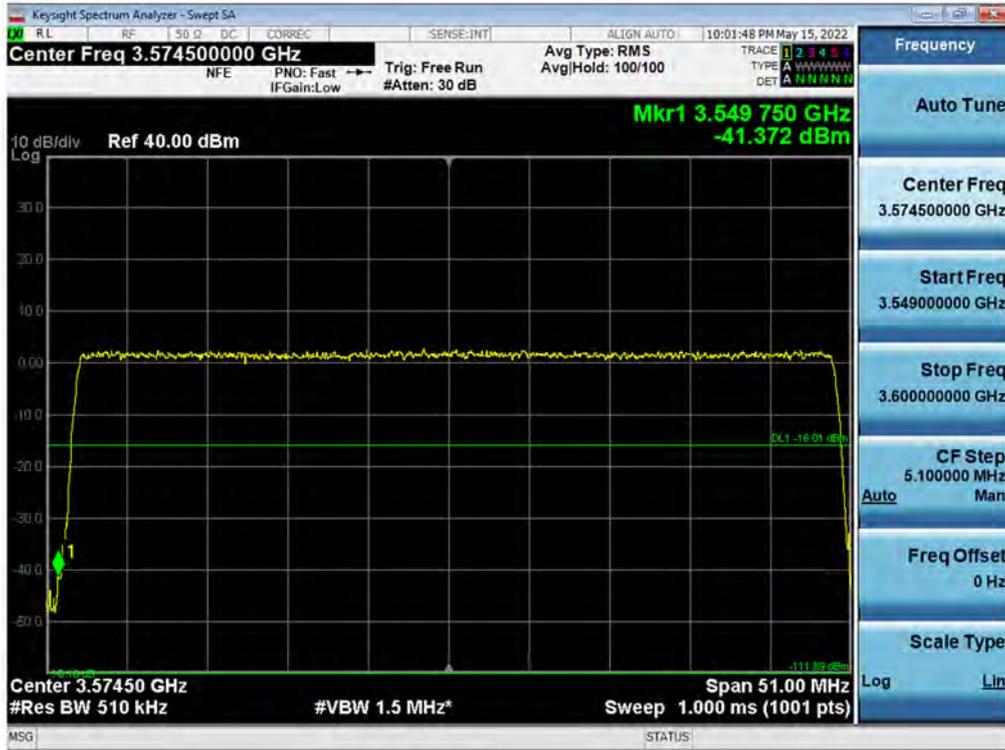
Antenna 0 / CBRS NR 40 MHz 1 Carrier / 64QAM / Middle Right



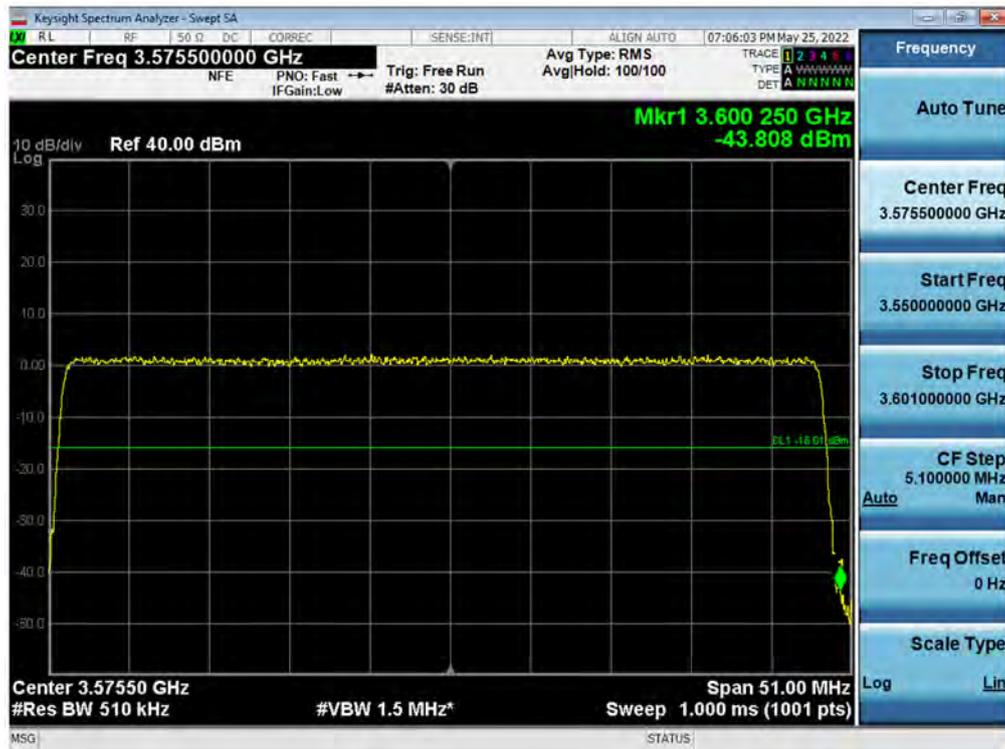
Antenna 0 / CBRS NR 40 MHz 1 Carrier / QPSK / High Left



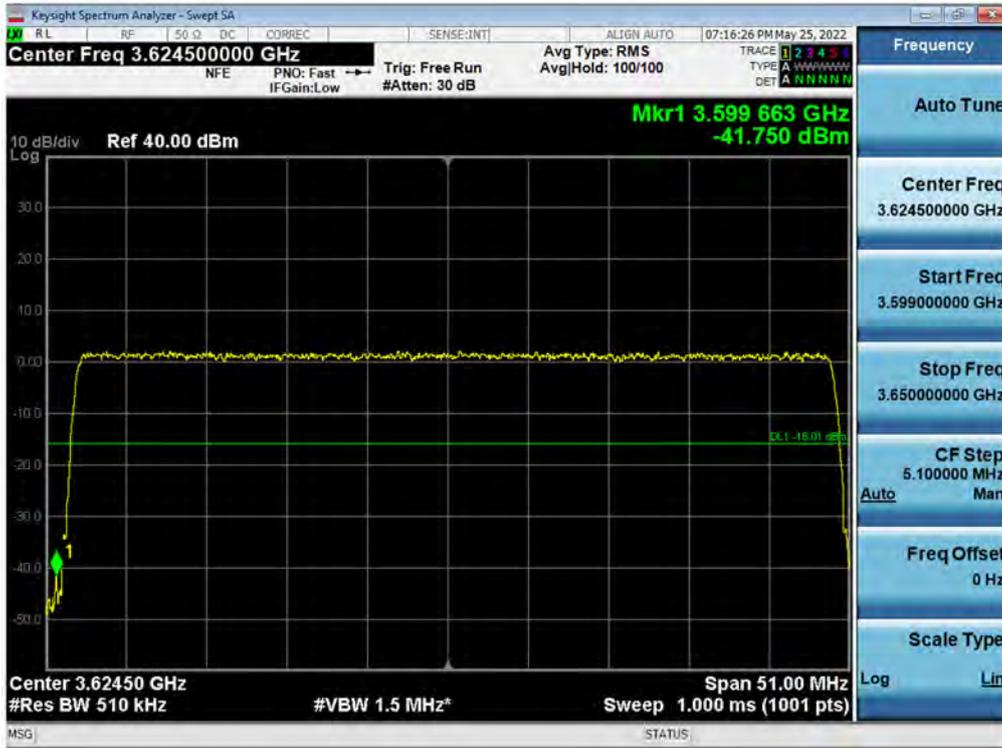
Antenna 0 / CBRS NR 50 MHz 1 Carrier / 256QAM / Low / Low Edge



Antenna 1 / CBRS NR 50 MHz 1 Carrier / 256QAM / Low / High Edge



Antenna 0 / CBRS NR 50 MHz 1 Carrier / 64QAM / Middle / Low Edge



Antenna 1 / CBRS NR 50 MHz 1 Carrier / 16QAM / Middle / High Edge

