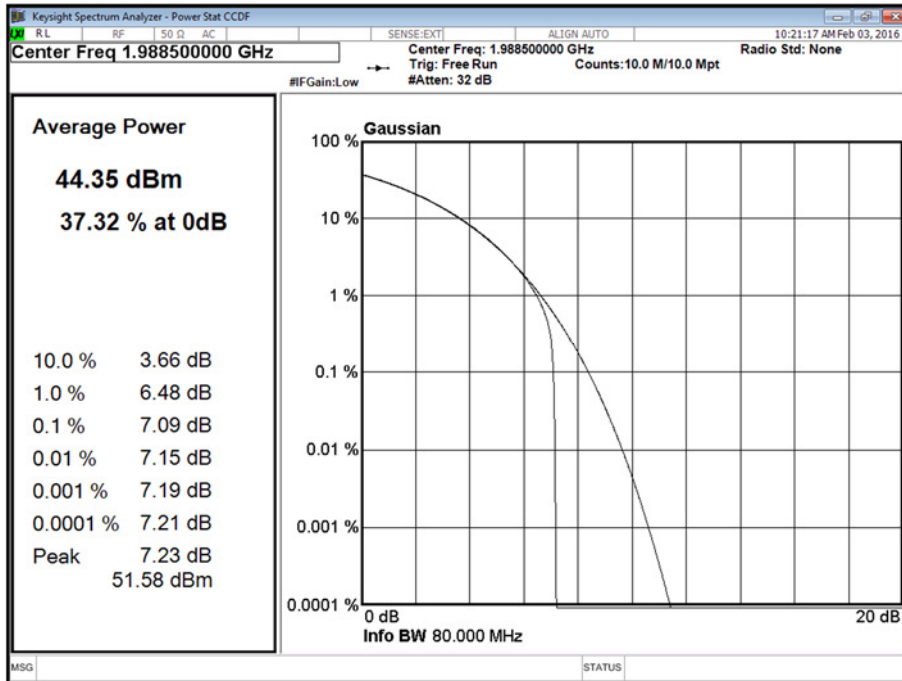
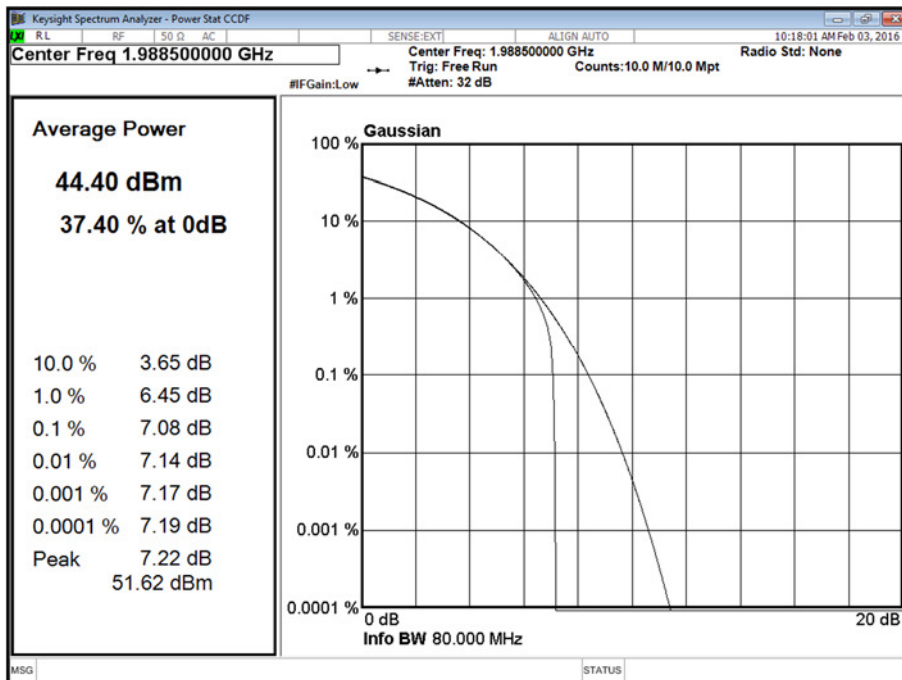


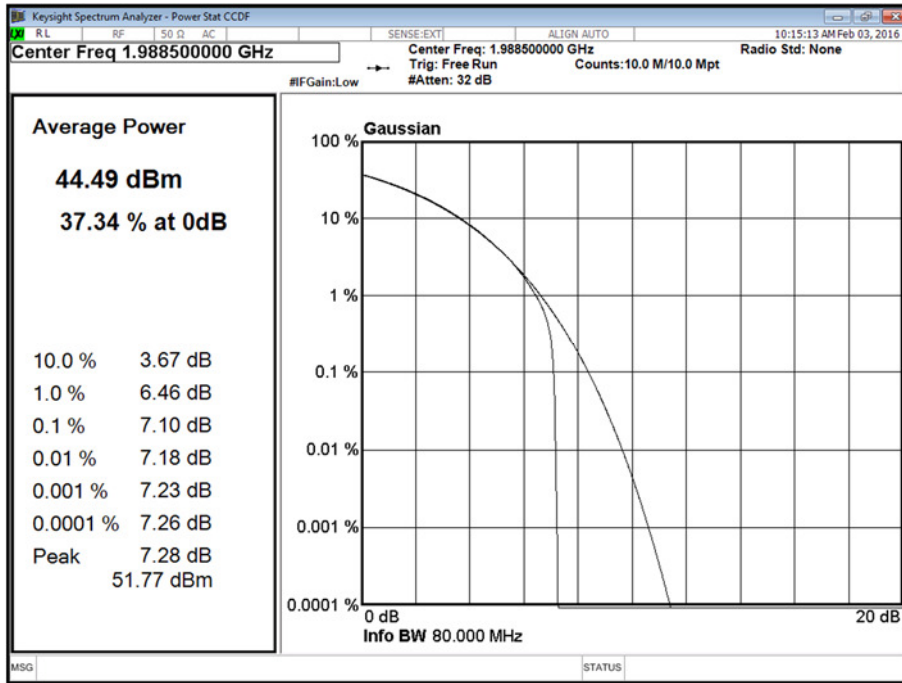
Channel Position T - Bandwidth 3.0 MHz - Antenna A



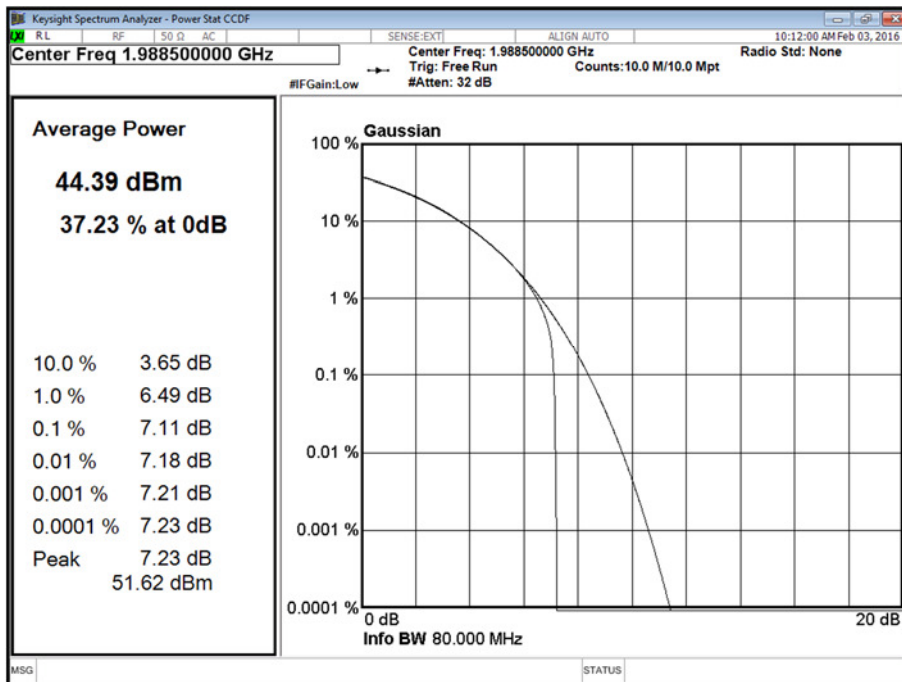
Channel Position T - Bandwidth 3.0 MHz - Antenna B



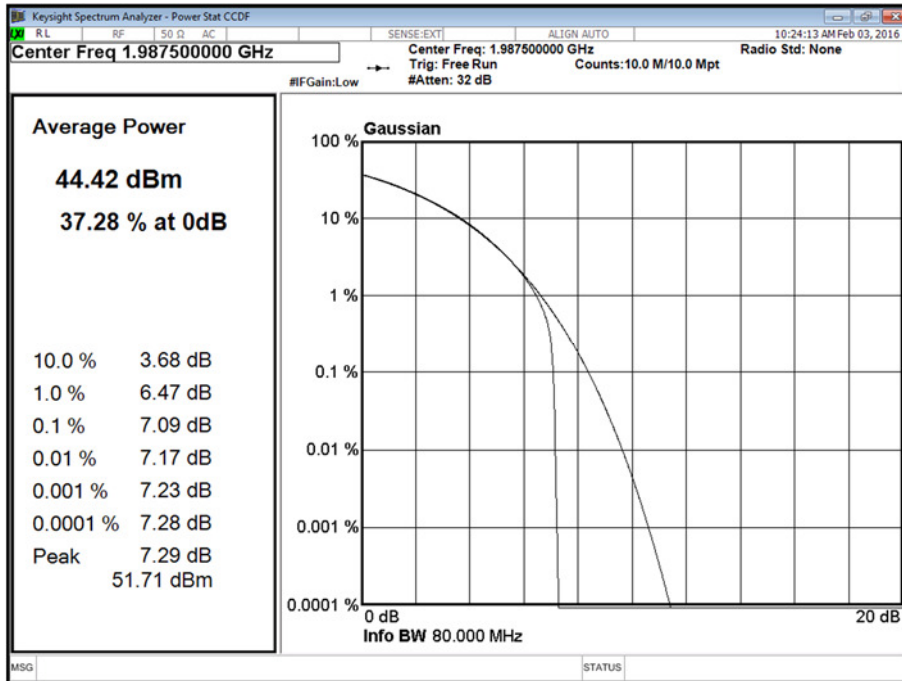
Channel Position T - Bandwidth 3.0 MHz - Antenna C



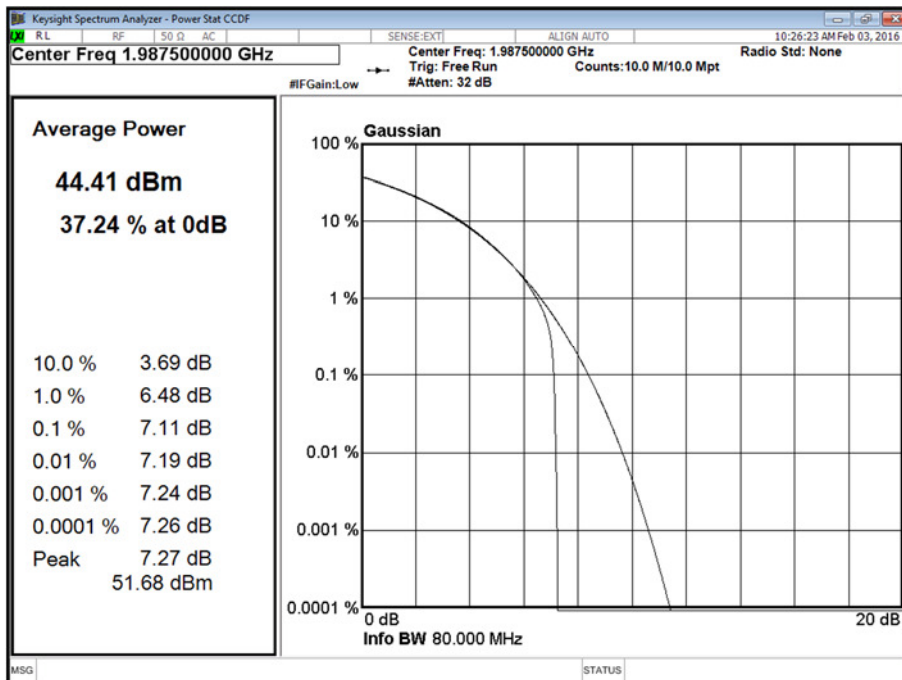
Channel Position T - Bandwidth 3.0 MHz - Antenna D



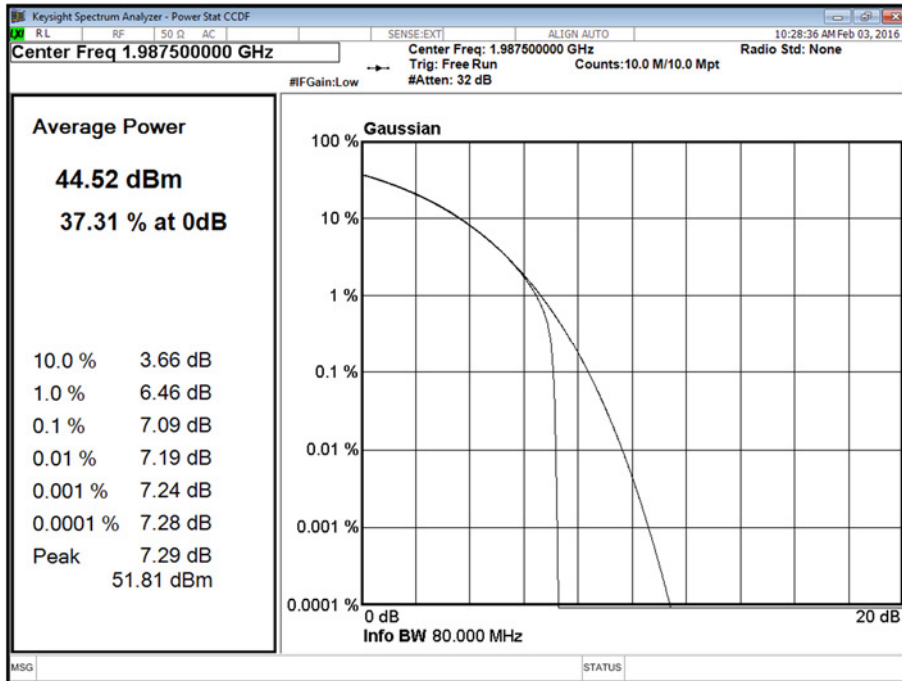
Channel Position T - Bandwidth 5.0 MHz - Antenna A



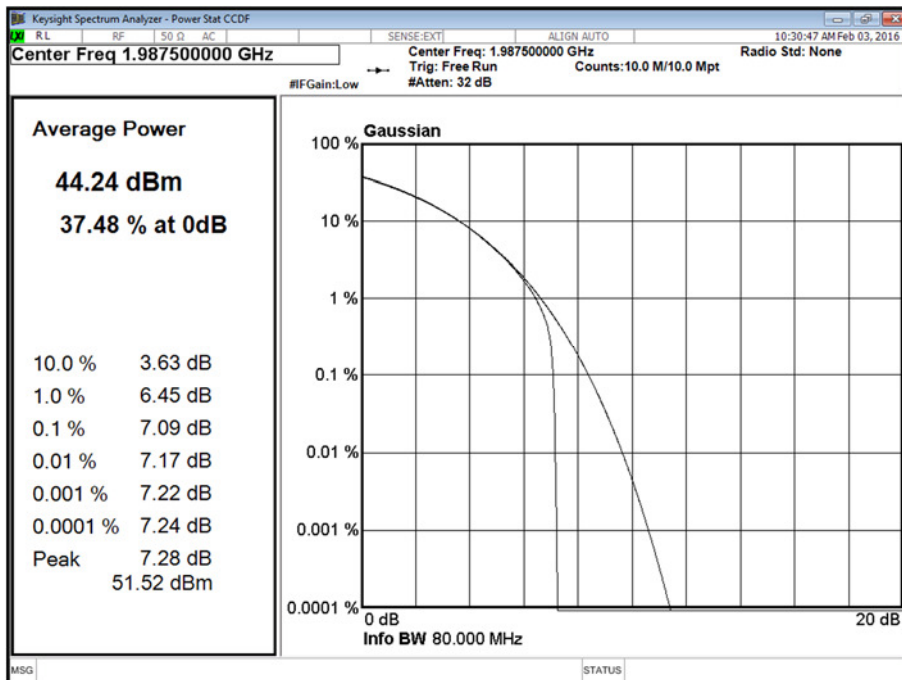
Channel Position T - Bandwidth 5.0 MHz - Antenna B



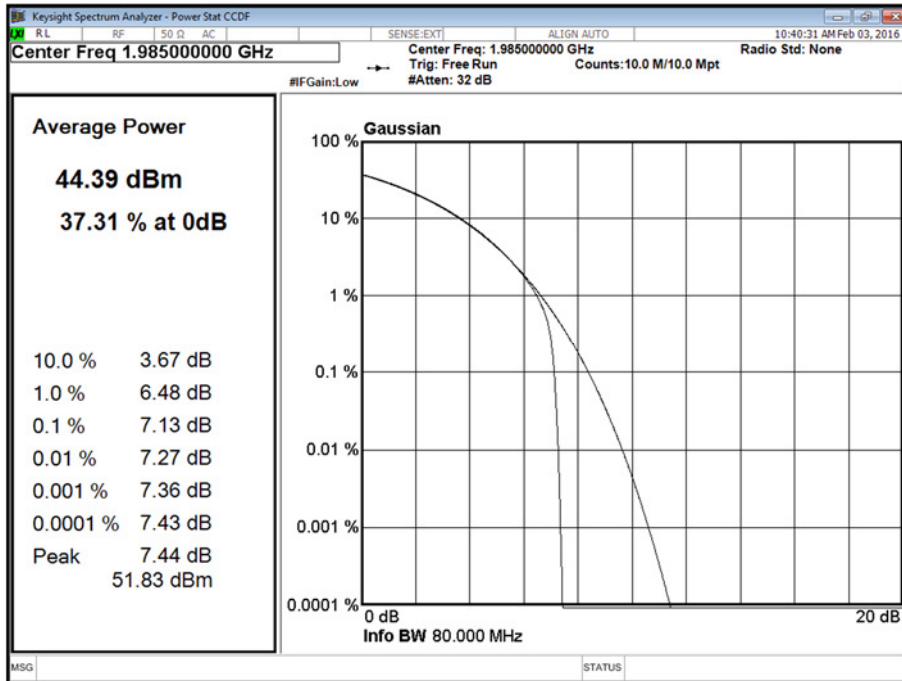
Channel Position T - Bandwidth 5.0 MHz - Antenna C



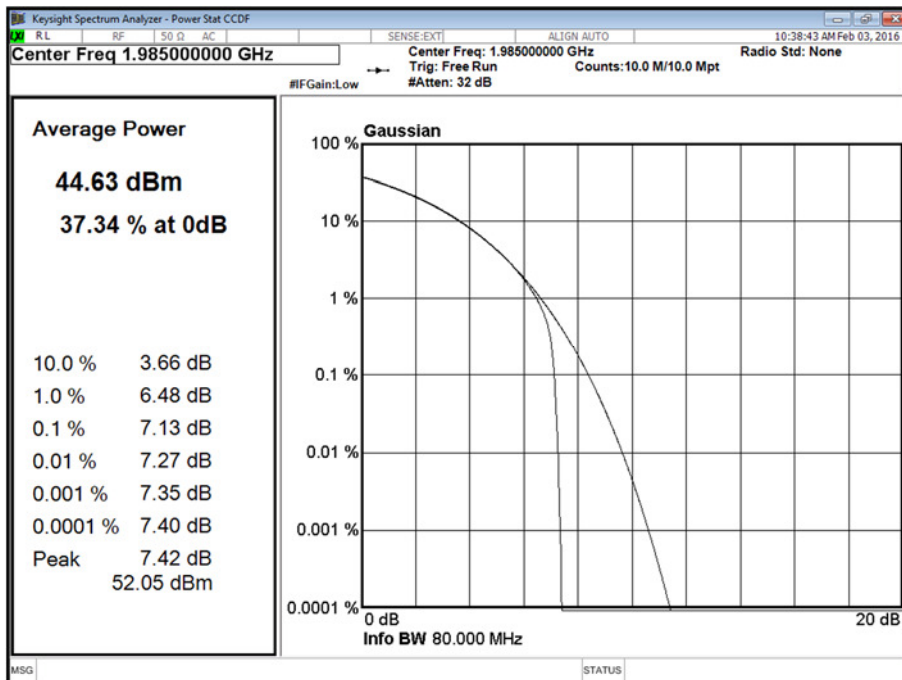
Channel Position T - Bandwidth 5.0 MHz - Antenna D



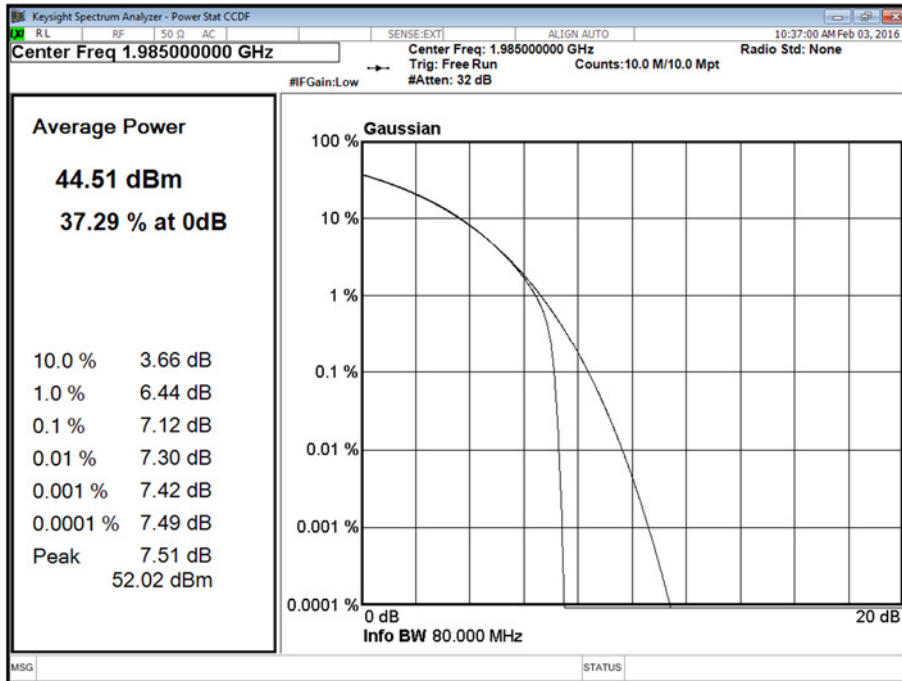
Channel Position T - Bandwidth 10.0 MHz - Antenna A



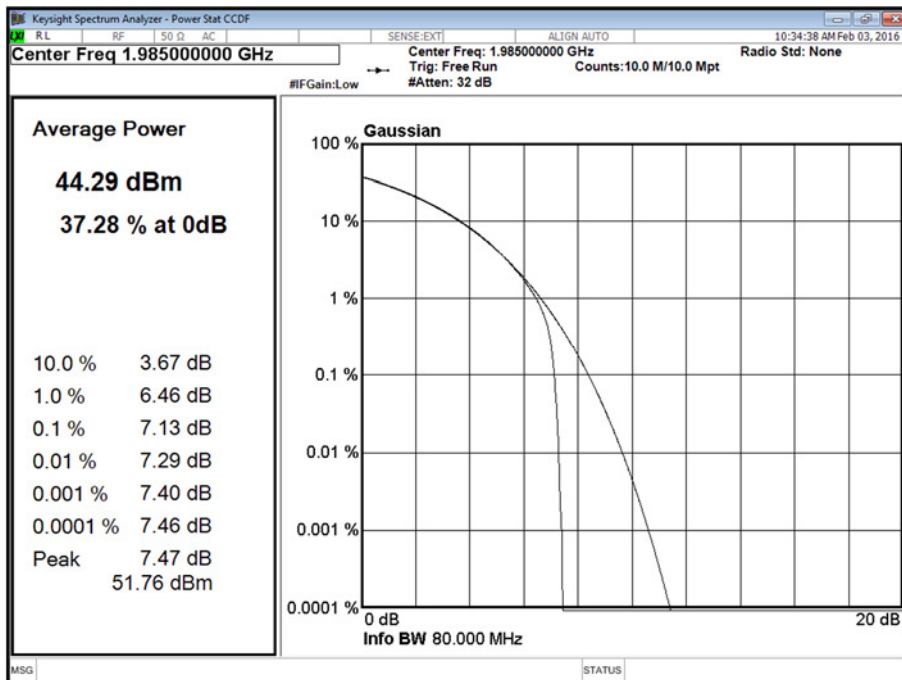
Channel Position T - Bandwidth 10.0 MHz - Antenna B



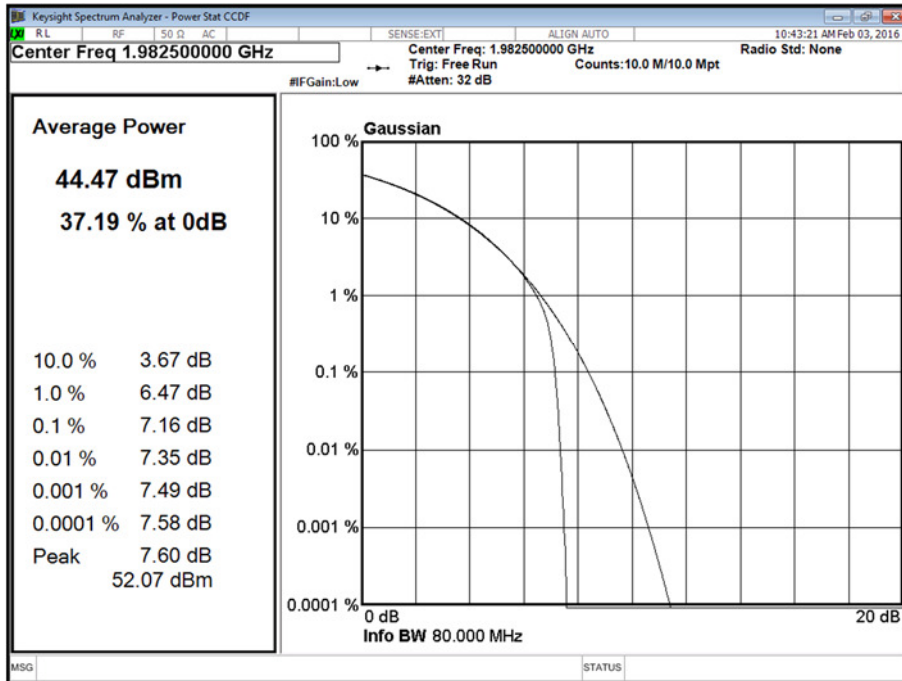
Channel Position T - Bandwidth 10.0 MHz - Antenna C



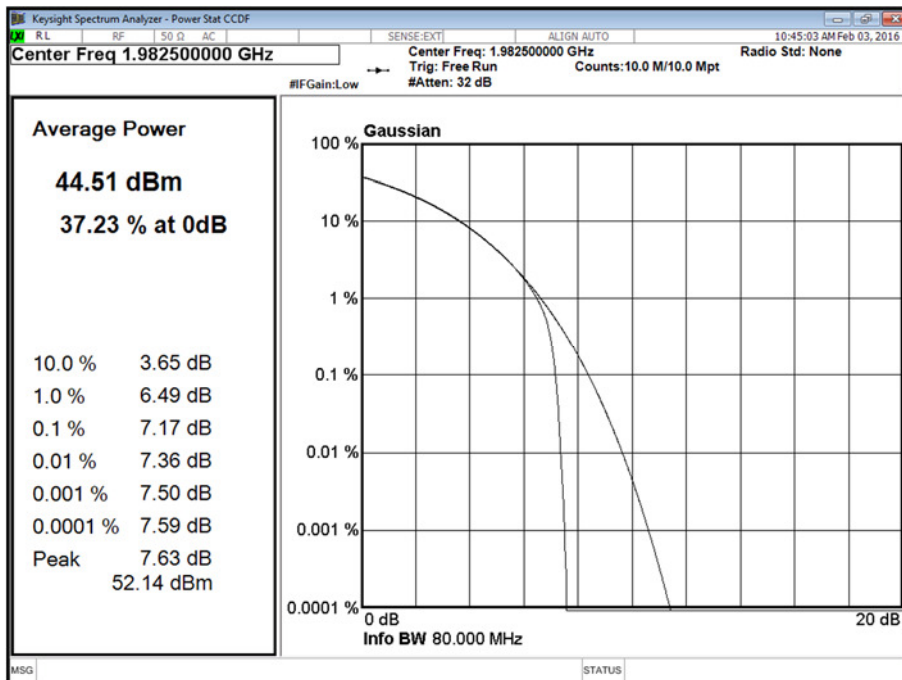
Channel Position T - Bandwidth 10.0 MHz - Antenna D



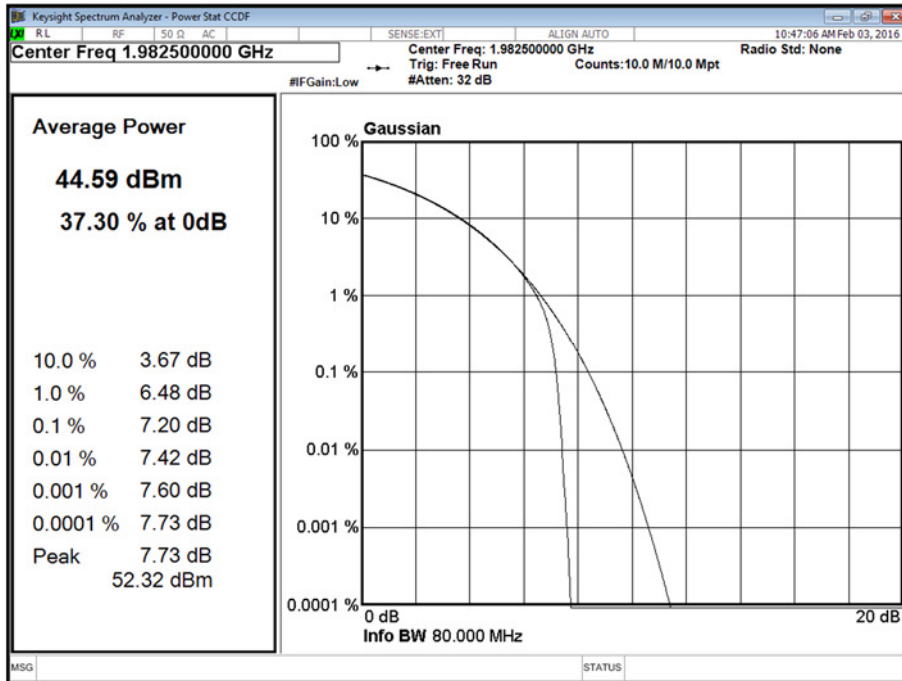
Channel Position T - Bandwidth 15.0 MHz - Antenna A



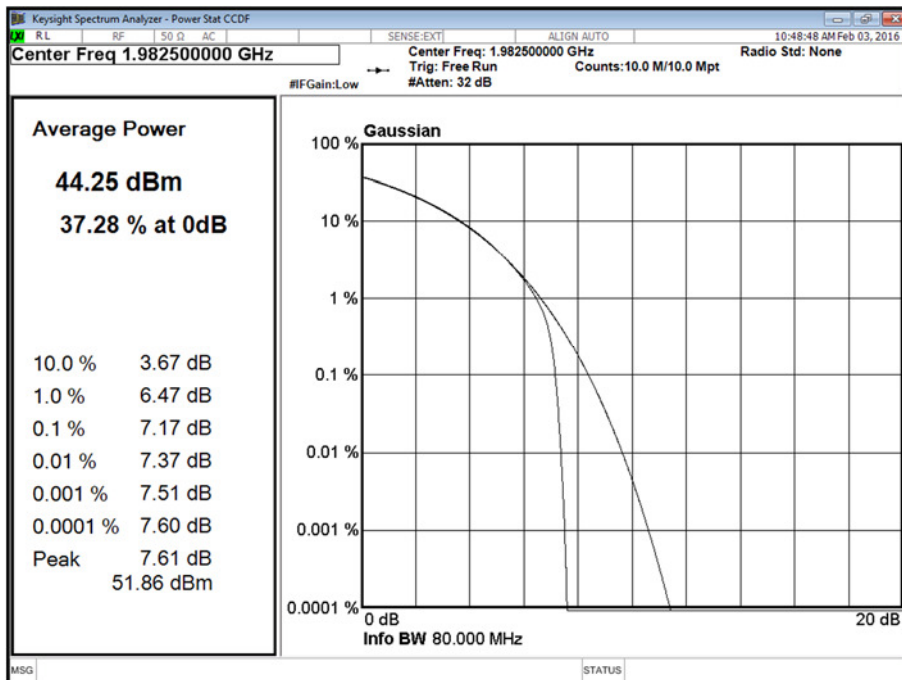
Channel Position T - Bandwidth 15.0 MHz - Antenna B



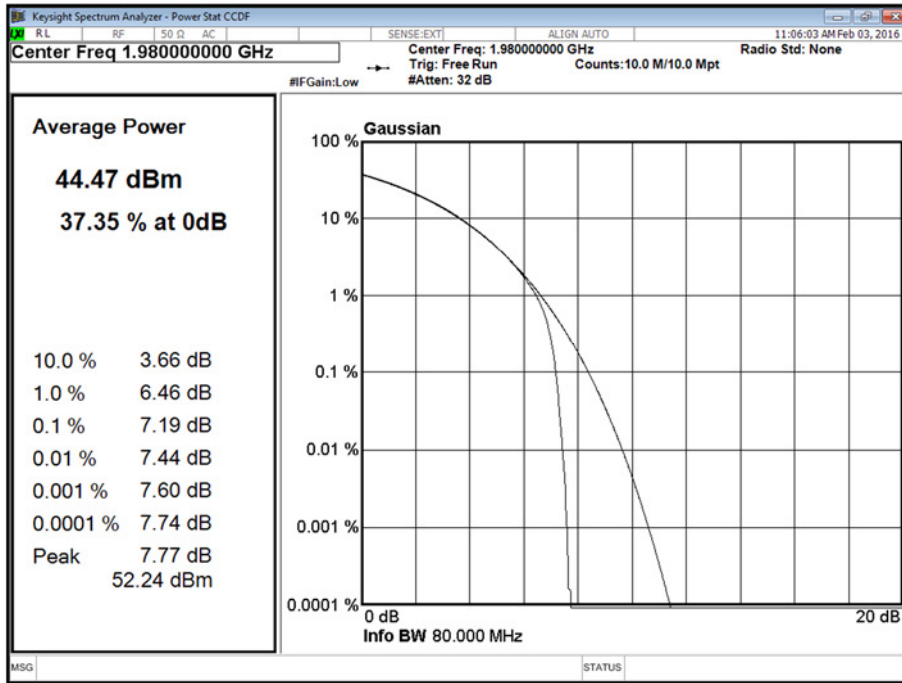
Channel Position T - Bandwidth 15.0 MHz - Antenna C



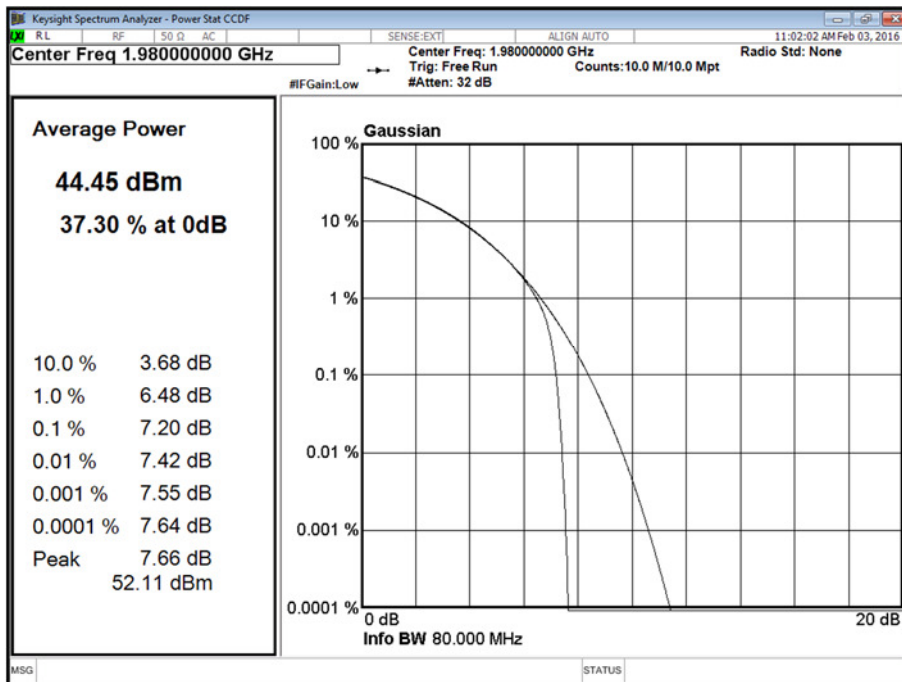
Channel Position T - Bandwidth 15.0 MHz - Antenna D



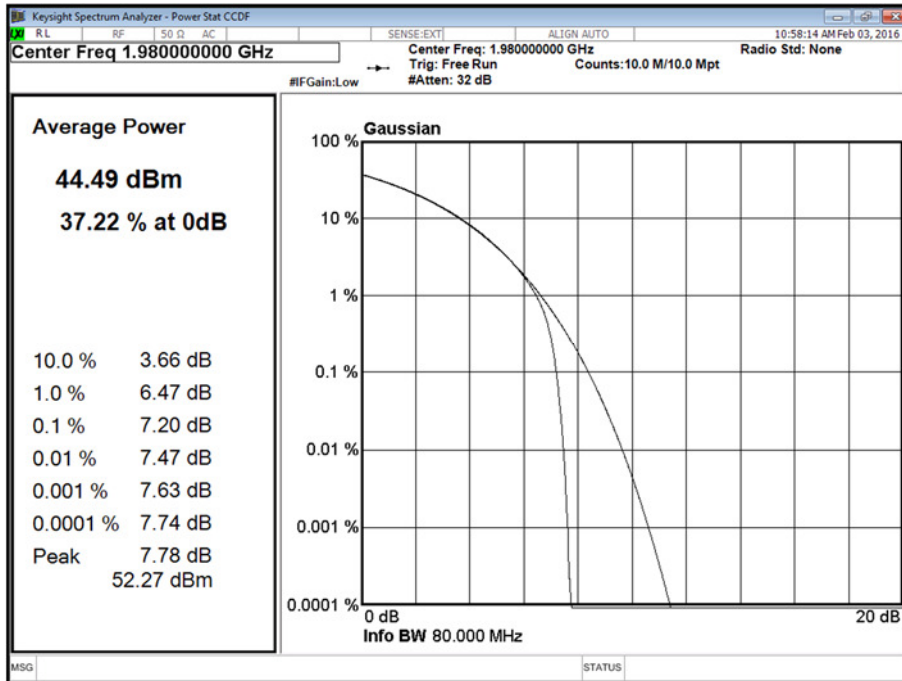
Channel Position T - Bandwidth 20.0 MHz - Antenna A



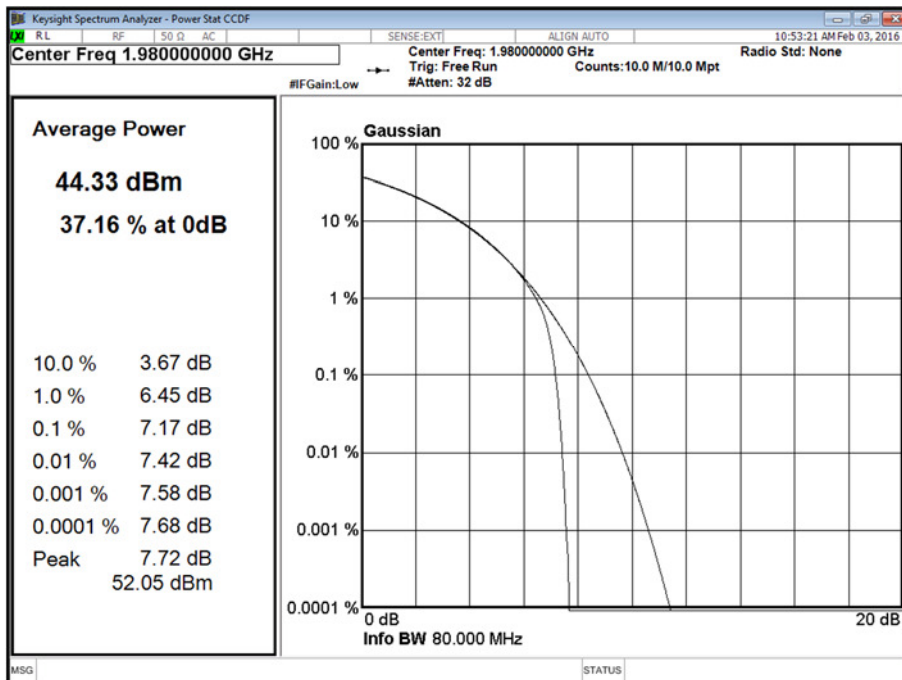
Channel Position T - Bandwidth 20.0 MHz - Antenna B



Channel Position T - Bandwidth 20.0 MHz - Antenna C



Channel Position T - Bandwidth 20.0 MHz - Antenna D



Configuration 4

Maximum Output Power 44.77 dBm

Modulation	Carrier Bandwidth (MHz)	Antenna	Peak to Average Ratio (PAR) / Output Power						
			Channel Position B						
			PAR (dB)	Average Power		Average EIRP			
dBm	dBm/MHz	dBm		dBm/MHz	W	W/MHz			
QPSK	1.4	A	-	44.30	40.38	62.20	58.28	1,659.5869	672.9767
		B	-	44.34	40.61	62.24	58.51	1,674.9429	709.5778
		C	-	44.09	40.58	61.99	58.48	1,581.2480	704.6931
		D	-	43.87	40.26	61.77	58.16	1,503.1420	654.6362
Total			-	47.10	43.33	65.00	61.23	3,162.7289	1,327.6128
QPSK	3.0	A	-	44.26	37.43	62.16	55.33	1,644.3717	341.1929
		B	-	44.36	37.87	62.26	55.77	1,682.6741	377.5722
		C	-	44.17	37.73	62.07	55.63	1,610.6456	365.5948
		D	-	44.09	37.74	61.99	55.64	1,581.2480	366.4376
Total			-	47.19	40.60	65.09	58.50	3,225.6198	707.6305
QPSK	5.0	A	-	44.30	35.84	62.20	53.74	1,659.5869	236.5920
		B	-	44.35	35.58	62.25	53.48	1,678.8040	222.8435
		C	-	44.23	35.44	62.13	53.34	1,633.0519	215.7744
		D	-	44.03	35.40	61.93	53.30	1,559.5525	213.7962
Total			-	47.18	38.64	65.08	56.54	3,219.1394	450.3882
QPSK	10.0	A	-	44.30	32.55	62.20	50.45	1,659.5869	110.9175
		B	-	44.47	32.92	62.37	50.82	1,725.8379	120.7814
		C	-	44.40	32.85	62.30	50.75	1,698.2437	118.8502
		D	-	44.22	32.56	62.12	50.46	1,629.2960	111.1732
Total			-	47.27	35.57	65.17	53.47	3,288.8829	222.0907
QPSK	15.0	A	-	44.51	31.04	62.41	48.94	1,741.8069	78.3430
		B	-	44.65	31.06	62.55	48.96	1,798.8709	78.7046
		C	-	44.59	31.13	62.49	49.03	1,774.1895	79.9834
		D	-	44.42	30.96	62.32	48.86	1,706.0824	76.9130
Total			-	47.48	34.01	65.38	51.91	3,447.8893	155.2560
QPSK	20.0	A	-	44.34	29.61	62.24	47.51	1,674.9429	56.3638
		B	-	44.54	29.77	62.44	47.67	1,753.8805	58.4790
		C	-	44.50	29.90	62.40	47.80	1,737.8008	60.2560
		D	-	44.47	29.82	62.37	47.72	1,725.8379	59.1562
Total			-	47.42	32.73	65.32	50.63	3,400.7808	115.5199

Configuration 4

Maximum Output Power 44.77 dBm

Modulation	Carrier Bandwidth (MHz)	Antenna	Peak to Average Ratio (PAR) / Output Power						
			Channel Position M						
			PAR (dB)	Average Power		Average EIRP			
dBm	dBm/MHz	dBm		dBm/MHz	W	W/MHz			
QPSK	1.4	A	-	44.31	40.36	62.21	58.26	1,663.4127	669.8846
		B	-	44.39	40.45	62.29	58.35	1,694.3378	683.9116
		C	-	44.43	40.60	62.33	58.50	1,710.0153	707.9458
		D	-	44.10	40.37	62.00	58.27	1,584.8932	671.4289
Total			-	47.22	43.38	65.12	61.28	3,248.3058	1,341.3135
QPSK	3.0	A	-	44.46	37.73	62.36	55.63	1,721.8686	365.5948
		B	-	44.51	37.67	62.41	55.57	1,741.8069	360.5786
		C	-	44.52	37.60	62.42	55.50	1,745.8222	354.8134
		D	-	44.15	37.36	62.05	55.26	1,603.2454	335.7376
Total			-	47.32	40.56	65.22	58.46	3,325.1140	701.3324
QPSK	5.0	A	-	44.33	35.39	62.23	53.29	1,671.0906	213.3045
		B	-	44.39	35.60	62.29	53.50	1,694.3378	223.8721
		C	-	44.43	35.68	62.33	53.58	1,710.0153	228.0342
		D	-	44.18	35.39	62.08	53.29	1,614.3586	213.3045
Total			-	47.27	38.40	65.17	56.30	3,285.4492	426.6090
QPSK	10.0	A	-	44.48	32.89	62.38	50.79	1,729.8164	119.9499
		B	-	44.55	32.81	62.45	50.71	1,757.9236	117.7606
		C	-	44.53	32.71	62.43	50.61	1,749.8467	115.0800
		D	-	44.15	32.44	62.05	50.34	1,603.2454	108.1434
Total			-	47.33	35.68	65.23	53.58	3,333.0617	228.0933
QPSK	15.0	A	-	44.44	31.09	62.34	48.99	1,713.9573	79.2501
		B	-	44.46	30.90	62.36	48.80	1,721.8686	75.8578
		C	-	44.59	31.11	62.49	49.01	1,774.1895	79.6159
		D	-	44.30	30.73	62.20	48.63	1,659.5869	72.9458
Total			-	47.38	33.92	65.28	51.82	3,373.5442	152.1959
QPSK	20.0	A	-	44.36	29.66	62.26	47.56	1,682.6741	57.0164
		B	-	44.40	29.62	62.30	47.52	1,698.2437	56.4937
		C	-	44.47	29.78	62.37	47.68	1,725.8379	58.6138
		D	-	44.17	29.46	62.07	47.36	1,610.6456	54.4503
Total			-	47.28	32.57	65.18	50.47	3,293.3197	111.4667

Configuration 4

Maximum Output Power 44.77 dBm

Modulation	Carrier Bandwidth (MHz)	Antenna	Peak to Average Ratio (PAR) / Output Power						
			Channel Position T						
			PAR (dB)	Average Power		Average EIRP			
dBm	dBm/MHz	dBm		dBm/MHz	W	W/MHz			
QPSK	1.4	A	-	44.50	40.52	62.40	58.42	1,737.8008	695.0243
		B	-	44.47	40.69	62.37	58.59	1,725.8379	722.7698
		C	-	44.49	40.75	62.39	58.65	1,733.8040	732.8245
		D	-	44.22	40.43	62.12	58.33	1,629.2960	680.7694
Total			-	47.37	43.49	65.27	61.39	3,367.0969	1,375.7937
QPSK	3.0	A	-	44.55	37.97	62.45	55.87	1,757.9236	386.3670
		B	-	44.49	37.86	62.39	55.76	1,733.8040	376.7038
		C	-	44.59	38.06	62.49	55.96	1,774.1895	394.4573
		D	-	44.27	37.64	62.17	55.54	1,648.1624	358.0964
Total			-	47.42	40.82	65.32	58.72	3,406.0860	744.4634
QPSK	5.0	A	-	44.49	35.74	62.39	53.64	1,733.8040	231.2065
		B	-	44.46	35.71	62.36	53.61	1,721.8686	229.6149
		C	-	44.69	36.03	62.59	53.93	1,815.5157	247.1724
		D	-	44.39	35.66	62.29	53.56	1,694.3378	226.9865
Total			-	47.45	38.71	65.35	56.61	3,428.1418	458.1930
QPSK	10.0	A	-	44.62	32.97	62.52	50.87	1,786.4876	122.1800
		B	-	44.60	33.01	62.50	50.91	1,778.2794	123.3105
		C	-	44.74	33.07	62.64	50.97	1,836.5383	125.0259
		D	-	44.37	32.68	62.27	50.58	1,686.5530	114.2878
Total			-	47.51	35.84	65.41	53.74	3,473.0406	236.4678
QPSK	15.0	A	-	44.62	31.18	62.52	49.08	1,786.4876	80.9096
		B	-	44.66	31.11	62.56	49.01	1,803.0177	79.6159
		C	-	44.74	31.32	62.64	49.22	1,836.5383	83.5603
		D	-	44.41	31.04	62.31	48.94	1,702.1585	78.3430
Total			-	47.53	34.12	65.43	52.02	3,488.6461	159.2526
QPSK	20.0	A	-	44.50	29.85	62.40	47.75	1,737.8008	59.5662
		B	-	44.44	29.80	62.34	47.70	1,713.9573	58.8844
		C	-	44.60	29.98	62.50	47.88	1,778.2794	61.3762
		D	-	44.25	29.57	62.15	47.47	1,640.5898	55.8470
Total			-	47.39	32.72	65.29	50.62	3,378.3906	115.4132

Configuration 5

Maximum Output Power 44.77 dBm

Modulation	Carrier Bandwidth (MHz)	Antenna	Peak to Average Ratio (PAR) / Output Power						
			Channel Position B						
			PAR (dB)	Average Power		Average EIRP			
dBm	dBm/MHz	dBm		dBm/MHz	W	W/MHz			
QPSK	1.4	A	-	43.31	37.92	61.21	55.82	1,321.2956	381.9443
		B	-	43.31	37.87	61.21	55.77	1,321.2956	377.5722
		C	-	43.05	37.65	60.95	55.55	1,244.5146	358.9219
		D	-	42.84	37.66	60.74	55.56	1,185.7687	359.7493
Total			-	46.09	40.80	63.99	58.70	2,507.0644	741.6936
QPSK	3.0	A	-	44.17	35.82	62.07	53.72	1,610.6456	235.5049
		B	-	44.27	35.89	62.17	53.79	1,648.1624	239.3316
		C	-	44.20	35.99	62.10	53.89	1,621.8101	244.9063
		D	-	44.05	35.84	61.95	53.74	1,566.7511	236.5920
Total			-	47.12	38.84	65.02	56.74	3,177.3967	472.0969
QPSK	5.0	A	-	44.32	33.65	62.22	51.55	1,667.2472	142.8894
		B	-	44.39	33.89	62.29	51.79	1,694.3378	151.0080
		C	-	44.37	33.80	62.27	51.70	1,686.5530	147.9108
		D	-	44.17	33.79	62.07	51.69	1,610.6456	147.5707
Total			-	47.26	36.73	65.16	54.63	3,277.8928	290.4600
QPSK	10.0	A	-	44.42	30.92	62.32	48.82	1,706.0824	76.2079
		B	-	44.50	31.07	62.40	48.97	1,737.8008	78.8860
		C	-	44.51	31.04	62.41	48.94	1,741.8069	78.3430
		D	-	44.37	31.02	62.27	48.92	1,686.5530	77.9830
Total			-	47.41	33.98	65.31	51.88	3,392.6354	154.1909

Remarks

MAXC = 3 carriers for 1.4 MHz to 10 MHz.

Configuration 5

Maximum Output Power 44.77 dBm

Modulation	Carrier Bandwidth (MHz)	Antenna	Peak to Average Ratio (PAR) / Output Power						
			Channel Position M						
			PAR (dB)	Average Power		Average EIRP			
dBm	dBm/MHz	dBm		dBm/MHz	W	W/MHz			
QPSK	1.4	A	-	43.35	38.10	61.25	56.00	1,333.5214	398.1072
		B	-	43.42	37.96	61.32	55.86	1,355.1894	385.4784
		C	-	43.51	37.72	61.41	55.62	1,383.5664	364.7539
		D	-	43.25	37.91	61.15	55.81	1,303.1668	381.0658
Total			-	46.31	41.02	64.21	58.92	2,636.6882	779.1730
QPSK	3.0	A	-	44.42	35.99	62.32	53.89	1,706.0824	244.9063
		B	-	44.50	35.97	62.40	53.87	1,737.8008	243.7811
		C	-	44.66	36.10	62.56	54.00	1,803.0177	251.1886
		D	-	44.22	35.73	62.12	53.63	1,629.2960	230.6747
Total			-	47.33	38.87	65.23	56.77	3,335.3784	475.5810
QPSK	5.0	A	-	44.41	33.80	62.31	51.70	1,702.1585	147.9108
		B	-	44.44	34.00	62.34	51.90	1,713.9573	154.8817
		C	-	44.61	34.02	62.51	51.92	1,782.3788	155.5966
		D	-	44.28	33.67	62.18	51.57	1,651.9618	143.5489
Total			-	47.36	36.75	65.26	54.65	3,354.1203	291.4598
QPSK	10.0	A	-	44.54	31.04	62.44	48.94	1,753.8805	78.3430
		B	-	44.55	30.96	62.45	48.86	1,757.9236	76.9130
		C	-	44.72	31.24	62.62	49.14	1,828.1002	82.0352
		D	-	44.24	30.74	62.14	48.64	1,636.8165	73.1139
Total			-	47.40	33.90	65.30	51.80	3,390.6970	151.4569

Remarks

MAXC = 3 carriers for 1.4 MHz to 10 MHz.

Configuration 5

Maximum Output Power 44.77 dBm

Modulation	Carrier Bandwidth (MHz)	Antenna	Peak to Average Ratio (PAR) / Output Power						
			Channel Position T						
			PAR (dB)	Average Power		Average EIRP			
dBm	dBm/MHz	dBm		dBm/MHz	W	W/MHz			
QPSK	1.4	A	-	43.46	38.03	61.36	55.93	1,367.7288	391.7419
		B	-	43.47	38.10	61.37	56.00	1,370.8818	398.1072
		C	-	43.73	38.27	61.63	56.17	1,455.4591	413.9997
		D	-	43.43	38.05	61.33	55.95	1,358.3134	393.5501
Total			-	46.46	41.05	64.36	58.95	2,726.0423	785.2920
QPSK	3.0	A	-	44.58	36.13	62.48	54.03	1,770.1090	252.9298
		B	-	44.56	36.26	62.46	54.16	1,761.9760	260.6154
		C	-	44.84	36.32	62.74	54.22	1,879.3168	264.2409
		D	-	44.32	35.98	62.22	53.88	1,667.2472	244.3431
Total			-	47.46	39.07	65.36	56.97	3,437.3562	497.2729
QPSK	5.0	A	-	44.52	33.94	62.42	51.84	1,745.8222	152.7566
		B	-	44.52	33.93	62.42	51.83	1,745.8222	152.4053
		C	-	44.73	34.32	62.63	52.22	1,832.3144	166.7247
		D	-	44.34	33.84	62.24	51.74	1,674.9429	149.2794
Total			-	47.44	36.90	65.34	54.80	3,420.7650	302.0360
QPSK	10.0	A	-	44.50	31.03	62.40	48.93	1,737.8008	78.1628
		B	-	44.48	30.98	62.38	48.88	1,729.8164	77.2681
		C	-	44.68	31.33	62.58	49.23	1,811.3401	83.7529
		D	-	44.33	31.00	62.23	48.90	1,671.0906	77.6247
Total			-	47.43	34.03	65.33	51.93	3,408.8914	155.7875

Remarks

MAXC = 3 carriers for 1.4 MHz to 10 MHz.

Configuration 8

Maximum Output Power 44.77 dBm

WCDMA Modulation	GSM Modulation	Antenna	Output Power					
			Channel Position B _{RFBW}					
			Average Power		Average EIRP			
dBm	dBm/MHz	dBm	dBm/MHz	W	W/MHz			
16QAM	GMSK	A	44.38	41.16	62.28	59.06	1,690.4696	805.7494
		B	44.53	41.04	62.43	58.94	1,750.5933	783.6101
		C	44.25	40.79	62.15	58.69	1,640.0696	739.0946
		D	44.16	40.70	62.06	58.60	1,605.8166	724.7697
Total			47.28	43.95	65.18	61.85	3,296.2862	1,530.5191

Remarks

GSM carrier on band edge was placed in band by an additional 200 kHz.

Configuration 8

Maximum Output Power 44.77 dBm

WCDMA Modulation	GSM Modulation	Antenna	Output Power					
			Channel Position M_{RFBW}					
			Average Power		Average EIRP			
			dBm	dBm/MHz	dBm	dBm/MHz	W	W/MHz
16QAM	GMSK	A	44.42	41.25	62.32	59.15	1,704.3083	821.6749
		B	44.47	41.39	62.37	59.29	1,725.9778	849.5716
		C	44.49	41.36	62.39	59.26	1,732.7663	843.7232
		D	44.49	41.34	62.39	59.24	1,732.4315	839.2667
Total			47.46	44.30	65.36	62.20	3,436.7398	1,660.9416

Configuration 8

Maximum Output Power 44.77 dBm

WCDMA Modulation	GSM Modulation	Antenna	Output Power					
			Channel Position T_{RFBW}					
			Average Power		Average EIRP			
			dBm	dBm/MHz	dBm	dBm/MHz	W	W/MHz
16QAM	GMSK	A	44.50	41.63	62.40	59.53	1,737.1553	896.8091
		B	44.58	41.69	62.48	59.59	1,771.3898	909.9133
		C	44.73	41.79	62.63	59.69	1,830.9692	930.4649
		D	44.46	41.65	62.36	59.55	1,723.8158	900.5338
Total			47.49	44.65	65.39	62.55	3,460.9711	1,797.3428

Configuration 9

Maximum Output Power 44.77 dBm

WCDMA Modulation	GSM Modulation	Antenna	Output Power					
			Channel Position B_{RFBW}					
			Average Power		Average EIRP			
			dBm	dBm/MHz	dBm	dBm/MHz	W	W/MHz
16QAM	GMSK	A	44.46	38.71	62.36	56.61	1,720.6239	457.9310
		B	44.60	38.80	62.50	56.70	1,776.4850	467.8429
		C	44.63	38.94	62.53	56.84	1,791.7469	483.2813
		D	44.67	38.95	62.57	56.85	1,805.5328	484.6185
Total			47.57	41.84	65.47	59.74	3,526.1567	942.5495

Remarks

GSM carrier on band edge was placed in band by an additional 200KHz. RFBW = 20 MHz.

Configuration 9

Maximum Output Power 44.77 dBm

WCDMA Modulation	GSM Modulation	Antenna	Output Power					
			Channel Position M _{RFBW}					
			Average Power		Average EIRP			
			dBm	dBm/MHz	dBm	dBm/MHz	W	W/MHz
16QAM	GMSK	A	44.48	38.51	62.38	56.41	1,728.9291	437.6229
		B	44.51	38.58	62.41	56.48	1,743.3429	444.2219
		C	44.61	38.55	62.51	56.45	1,780.6014	441.4688
		D	44.46	38.48	62.36	56.38	1,720.4063	434.2102
Total			47.48	41.50	65.38	59.40	3,449.3354	871.8330

Remarks

RFBW = 20 MHz

Configuration 9

Maximum Output Power 44.77 dBm

WCDMA Modulation	GSM Modulation	Antenna	Output Power					
			Channel Position T _{RFBW}					
			Average Power		Average EIRP			
			dBm	dBm/MHz	dBm	dBm/MHz	W	W/MHz
16QAM	GMSK	A	44.49	38.59	62.39	56.49	1,735.6987	445.2460
		B	44.62	38.82	62.52	56.72	1,787.0349	470.3271
		C	44.47	38.67	62.37	56.57	1,725.7353	454.2553
		D	44.51	38.70	62.41	56.60	1,741.3993	457.0882
Total			47.51	41.65	65.41	59.55	3,477.0980	902.3342

Remarks

GSM carrier on band edge was placed in band by an additional 200 kHz. RFBW = 20 MHz.

Configuration 10

Maximum Output Power 44.77 dBm

GSM Modulation	LTE Bandwidth (MHz)	Antenna	Output Power					
			Channel Position B _{RFBW}					
			Average Power		Average EIRP			
			dBm	dBm/MHz	dBm	dBm/MHz	W	W/MHz
GMSK	20.0	A	44.46	41.09	62.36	58.99	1,719.9334	791.7717
		B	44.46	40.97	62.36	58.87	1,721.1258	770.3711
		C	44.44	40.86	62.34	58.76	1,715.0621	751.6229
		D	44.04	40.52	61.94	58.42	1,564.7868	694.5444
Total			47.26	43.82	65.16	61.72	3,284.7202	1,486.3161

Remarks

GSM carrier on band edge was placed in band by an additional 200 kHz. LTE modulation = QPSK

Configuration 10

Maximum Output Power 44.77 dBm

GSM Modulation	LTE Bandwidth (MHz)	Antenna	Output Power					
			Channel Position M _{RFBW}					
			Average Power		Average EIRP			
			dBm	dBm/MHz	dBm	dBm/MHz	W	W/MHz
GMSK	20.0	A	44.19	41.08	62.09	58.98	1,618.1989	791.0428
		B	44.38	41.27	62.28	59.17	1,689.2702	826.6088
		C	44.41	41.23	62.31	59.13	1,703.6004	818.4648
		D	44.36	41.14	62.26	59.04	1,683.1133	802.2320
Total			47.29	44.12	65.19	62.02	3,301.3122	1,593.2749

Remarks

LTE modulation = QPSK

Configuration 10

Maximum Output Power 44.77 dBm

GSM Modulation	LTE Bandwidth (MHz)	Antenna	Output Power					
			Channel Position T_{RFBW}					
			Average Power		Average EIRP			
			dBm	dBm/MHz	dBm	dBm/MHz	W	W/MHz
GMSK	20.0	A	44.38	41.35	62.28	59.25	1,690.8661	841.9766
		B	44.57	41.44	62.47	59.34	1,767.4918	859.2113
		C	44.47	41.42	62.37	59.32	1,724.0127	855.8546
		D	44.24	41.21	62.14	59.11	1,635.4375	813.9543
Total			47.32	44.29	65.22	62.19	3,326.3036	1,655.9308

Remarks

LTE modulation = QPSK

Configuration 11

Maximum Output Power 44.77 dBm

GSM Modulation	LTE Bandwidth (MHz)	Antenna	Output Power					
			Channel Position B_{RFBW}					
			Average Power		Average EIRP			
			dBm	dBm/MHz	dBm	dBm/MHz	W	W/MHz
GMSK	5.0	A	44.35	38.64	62.25	56.54	1,679.5453	450.8167
		B	44.47	38.44	62.37	56.34	1,724.7806	430.8241
		C	44.48	38.71	62.38	56.61	1,728.0667	458.2474
		D	44.41	38.75	62.31	56.65	1,700.9628	462.0617
Total			47.39	41.70	65.29	59.60	3,380.5081	912.8784

Remarks

GSM carrier on band edge was placed in band by an additional 200 kHz. RFBW = 20 MHz. LTE modulation = QPSK

Configuration 11

Maximum Output Power 44.77 dBm

GSM Modulation	LTE Bandwidth (MHz)	Antenna	Output Power					
			Channel Position M _{RFBW}					
			Average Power		Average EIRP			
			dBm	dBm/MHz	dBm	dBm/MHz	W	W/MHz
GMSK	5.0	A	44.53	38.61	62.43	56.51	1,751.2593	447.5072
		B	44.55	38.46	62.45	56.36	1,759.8390	432.5138
		C	44.58	38.49	62.48	56.39	1,769.8330	435.5119
		D	44.21	38.31	62.11	56.21	1,624.2325	418.2154
Total			47.38	41.47	65.28	59.37	3,375.4918	865.7226

Remarks

RFBW = 20 MHz. LTE modulation = QPSK

Configuration 11

Maximum Output Power 44.77 dBm

GSM Modulation	LTE Bandwidth (MHz)	Antenna	Output Power					
			Channel Position T _{RFBW}					
			Average Power		Average EIRP			
			dBm	dBm/MHz	dBm	dBm/MHz	W	W/MHz
GMSK	5.0	A	44.32	38.50	62.22	56.40	1,669.1564	436.1140
		B	44.47	38.63	62.37	56.53	1,726.6375	449.5728
		C	44.38	38.49	62.28	56.39	1,691.4513	435.1109
		D	44.39	38.52	62.29	56.42	1,695.8250	438.1270
Total			47.37	41.52	65.27	59.42	3,364.9813	874.2410

Remarks

GSM carrier on band edge was placed in band by an additional 200 kHz. RFBW = 20 MHz. LTE modulation = QPSK

Configuration 6

Maximum Output Power 44.77 dBm

WCDMA Modulation	LTE Bandwidth (MHz)	Antenna	Output Power					
			Channel Position B _{RFBW}					
			Average Power		Average EIRP			
			dBm	dBm/MHz	dBm	dBm/MHz	W	W/MHz
16QAM	1.4	A	44.18	40.21	62.08	58.11	1,613.7221	646.6957
		B	44.36	40.53	62.26	58.43	1,682.8088	697.2684
		C	44.22	40.56	62.12	58.46	1,630.6695	701.4553
		D	44.14	40.49	62.04	58.39	1,599.7236	689.7632
Total			47.17	43.36	65.07	61.26	3,213.4457	1,336.4589

Configuration 6

Maximum Output Power 44.77 dBm

WCDMA Modulation	LTE Bandwidth (MHz)	Antenna	Output Power					
			Channel Position M _{RFBW}					
			Average Power		Average EIRP			
			dBm	dBm/MHz	dBm	dBm/MHz	W	W/MHz
16QAM	1.4	A	44.32	40.20	62.22	58.10	1,667.9121	645.9516
		B	44.52	40.41	62.42	58.31	1,746.4159	678.2659
		C	44.61	40.65	62.51	58.55	1,782.5575	716.3083
		D	44.41	40.65	62.31	58.55	1,704.0718	716.8033
Total			47.38	43.44	65.28	61.34	3,371.9839	1,362.7549

Configuration 6

Maximum Output Power 44.77 dBm

WCDMA Modulation	LTE Bandwidth (MHz)	Antenna	Output Power					
			Channel Position T _{RFBW}					
			Average Power		Average EIRP			
			dBm	dBm/MHz	dBm	dBm/MHz	W	W/MHz
16QAM	1.4	A	44.44	40.11	62.34	58.01	1,715.8065	632.5575
		B	44.38	40.20	62.28	58.10	1,688.5997	645.2084
		C	44.47	40.35	62.37	58.25	1,723.8824	667.5749
		D	44.24	39.93	62.14	57.83	1,635.8743	607.2954
Total			47.35	43.03	65.25	60.93	3,351.6808	1,239.8529

Configuration 7

Maximum Output Power 44.77 dBm

WCDMA Modulation	LTE Bandwidth (MHz)	Antenna	Output Power					
			Channel Position B _{RFBW}					
			Average Power		Average EIRP			
			dBm	dBm/MHz	dBm	dBm/MHz	W	W/MHz
16QAM	15.0	A	44.18	32.77	62.08	50.67	1,613.5889	116.7078
		B	44.21	32.80	62.11	50.70	1,626.0082	117.5980
		C	44.10	32.90	62.00	50.80	1,586.0402	120.1988
		D	44.07	32.85	61.97	50.75	1,574.8070	118.9597
Total			47.14	35.82	65.04	53.72	3,188.3958	235.6676

Remarks

LTE Modulation = QPSK

Configuration 7

Maximum Output Power 44.77 dBm

WCDMA Modulation	LTE Bandwidth (MHz)	Antenna	Output Power					
			Channel Position M _{RFBW}					
			Average Power		Average EIRP			
			dBm	dBm/MHz	dBm	dBm/MHz	W	W/MHz
16QAM	15.0	A	44.39	33.06	62.29	50.96	1,693.9358	124.7384
		B	44.42	33.20	62.32	51.10	1,706.5073	128.8843
		C	44.50	33.13	62.40	51.03	1,738.2894	126.7652
		D	44.32	33.11	62.22	51.01	1,667.0187	126.2990
Total			47.36	36.10	65.26	54.00	3,360.9544	251.0374

Remarks

LTE Modulation = QPSK

Configuration 7

Maximum Output Power 44.77 dBm

WCDMA Modulation	LTE Bandwidth (MHz)	Antenna	Output Power					
			Channel Position T_{RFBW}					
			Average Power		Average EIRP			
			dBm	dBm/MHz	dBm	dBm/MHz	W	W/MHz
16QAM	15.0	A	44.26	33.03	62.16	50.93	1,645.5949	123.7941
		B	44.39	33.12	62.29	51.02	1,695.6984	126.5319
		C	44.69	33.64	62.59	51.54	1,813.4432	142.5608
		D	44.44	33.30	62.34	51.20	1,713.6075	131.7650
Total			47.36	36.17	65.26	54.07	3,359.2024	255.5591

Remarks

LTE Modulation = QPSK

Limit	
Max Power	≤ 3280 W or $\leq +65$ dBm
Peak to Average Ratio	13 dB

2.2 OCCUPIED BANDWIDTH

2.2.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1049
FCC CFR 47 Part 24, Clause 24.238 (b)
Industry Canada RSS-GEN, Clause 6.6

2.2.2 Date of Test and Modification State

02 and 03 February 2016 - Modification State 0

2.2.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.2.4 Environmental Conditions

Ambient Temperature	22.9 - 26.2°C
Relative Humidity	22.9 - 25.4%

2.2.5 Test Method

The EUT was connected to a Signal Analyser via an attenuator and an RF switch. The path loss between the EUT and the Analyser was measured using a Network Analyser and entered as a Reference Level Offset.

The EUT was set to transmit at its maximum rated output power in the configurations described below.

The measurements were performed using the Analyser Occupied Bandwidth measurement mode function in accordance with FCC KDB 971168 D01 v02r02.

The Analyser RBW was configured to be at least 1% of the channel bandwidth of the carrier to be measured. A peak detector was used with the trace set to Max Hold.

Testing was performed on all ports.

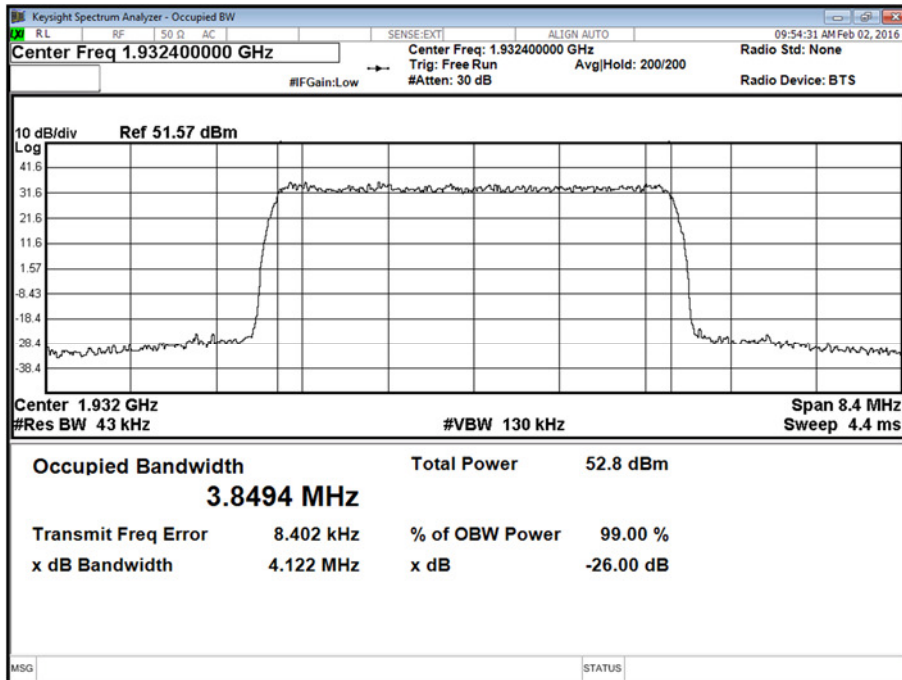
2.2.6 Test Results

Configuration 1 Antenna A

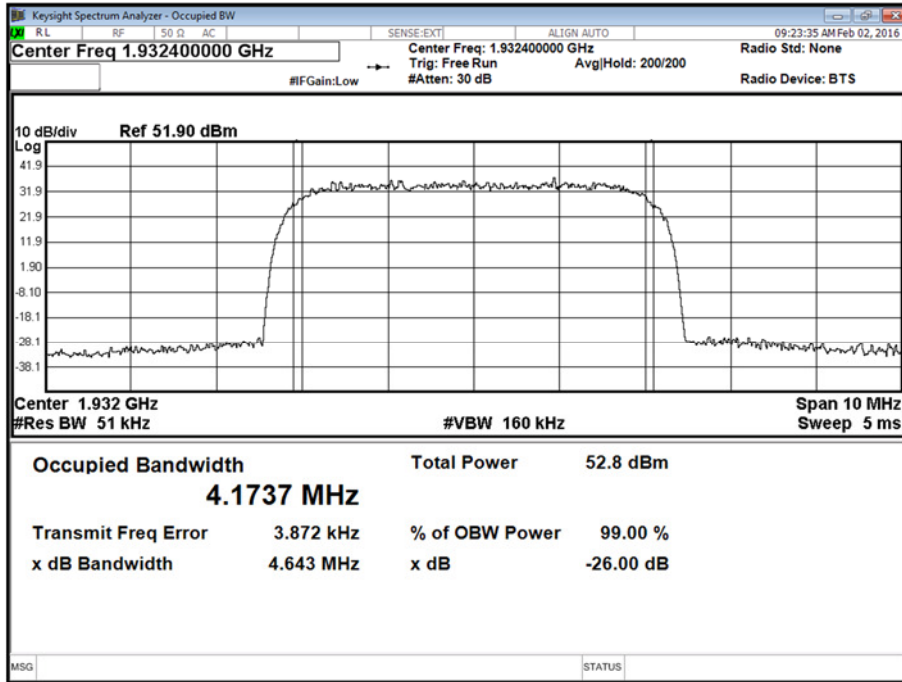
Maximum Output Power 44.77 dBm

Carrier Bandwidth / Modulation	Result (kHz)					
	Channel Position B		Channel Position M		Channel Position T	
	Occupied Bandwidth	-26 dB Bandwidth	Occupied Bandwidth	-26 dB Bandwidth	Occupied Bandwidth	-26 dB Bandwidth
4.2 MHz / QPSK	3,849.41	4,121.74	3,849.30	4,118.98	3,850.55	4,114.18
5.0 MHz / QPSK	4,173.66	4,642.79	4,164.29	4,640.55	4,148.93	4,644.82

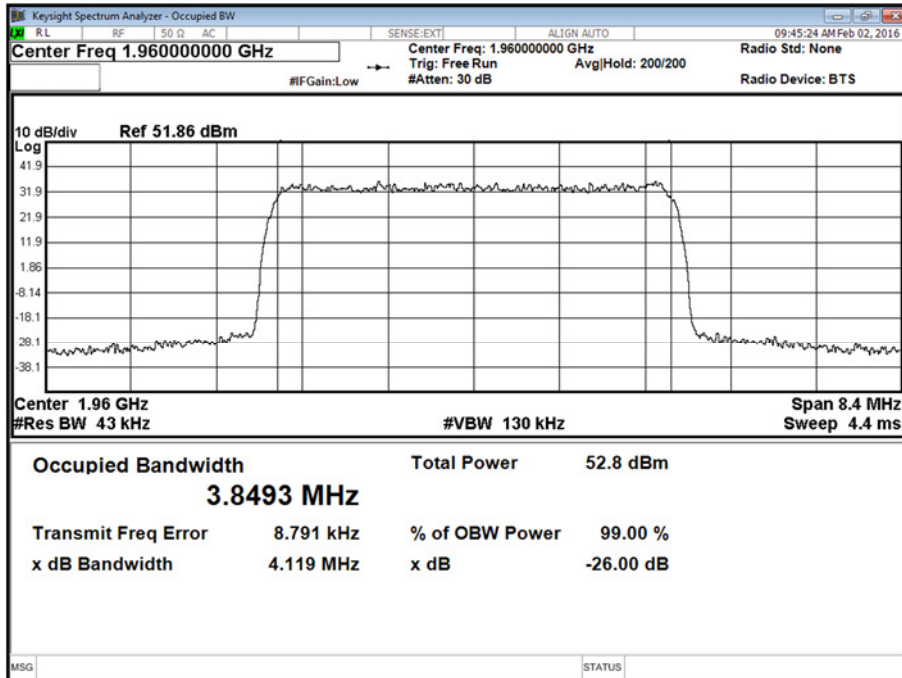
Channel Position B - Bandwidth 4.2 MHz - Antenna A



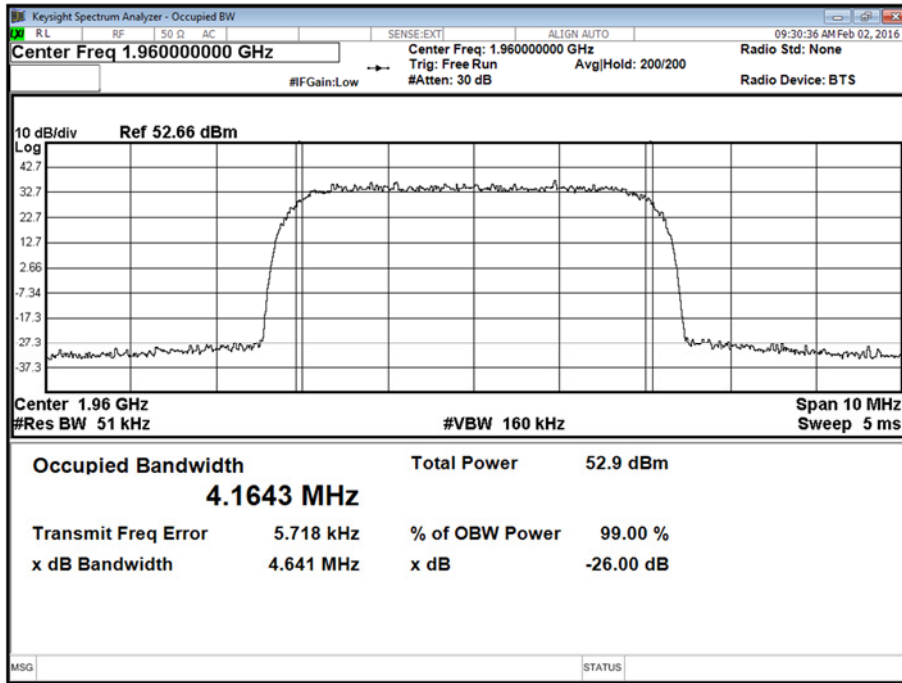
Channel Position B - Bandwidth 5.0 MHz - Antenna A



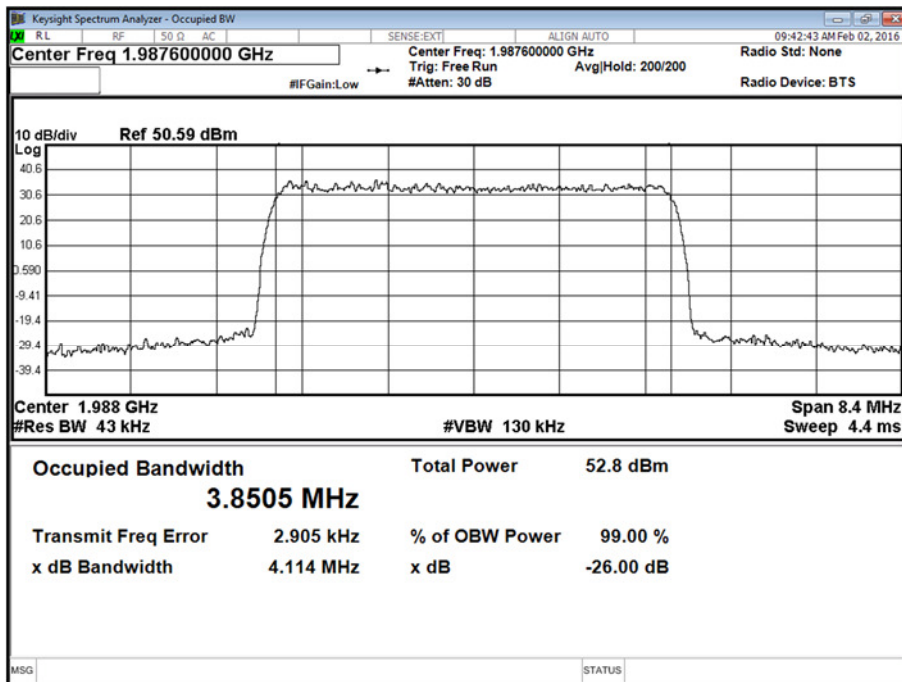
Channel Position M - Bandwidth 4.2 MHz - Antenna A



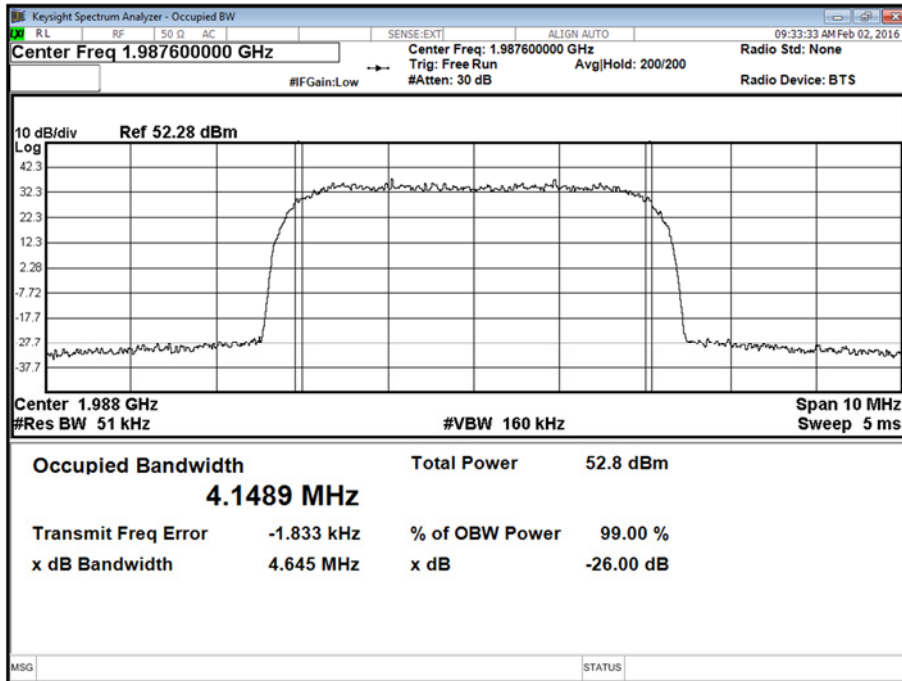
Channel Position M - Bandwidth 5.0 MHz - Antenna A



Channel Position T - Bandwidth 4.2 MHz - Antenna A



Channel Position T - Bandwidth 5.0 MHz - Antenna A

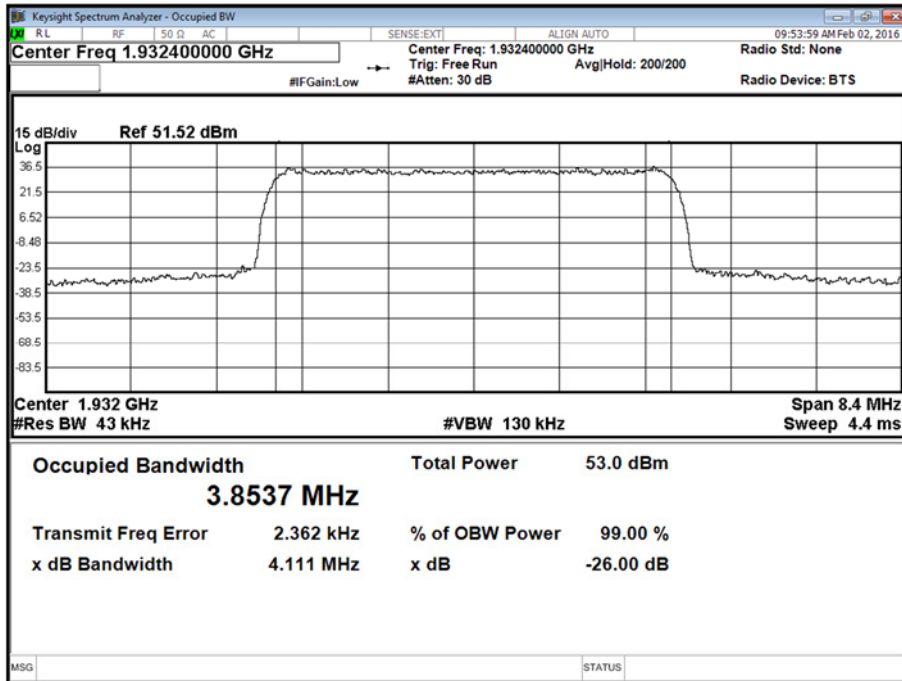


Configuration 1 Antenna B

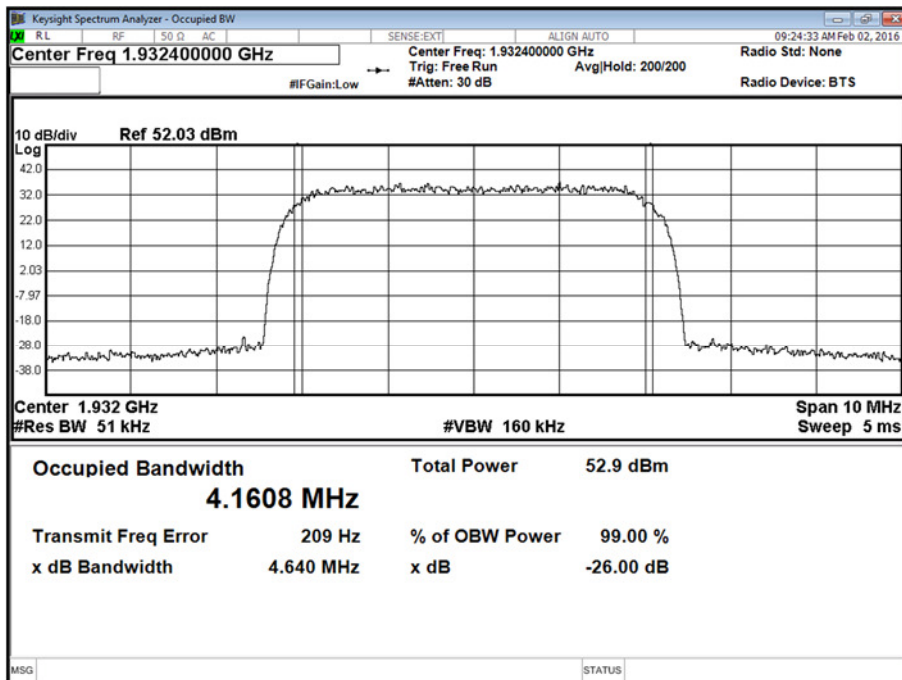
Maximum Output Power 44.77 dBm

Carrier Bandwidth / Modulation	Result (kHz)					
	Channel Position B		Channel Position M		Channel Position T	
	Occupied Bandwidth	-26 dB Bandwidth	Occupied Bandwidth	-26 dB Bandwidth	Occupied Bandwidth	-26 dB Bandwidth
4.2 MHz / QPSK	3,853.75	4,110.74	3,851.38	4,115.49	3,849.29	4,115.25
5.0 MHz / QPSK	4,160.79	4,640.38	4,167.75	4,640.87	4,156.88	4,637.80

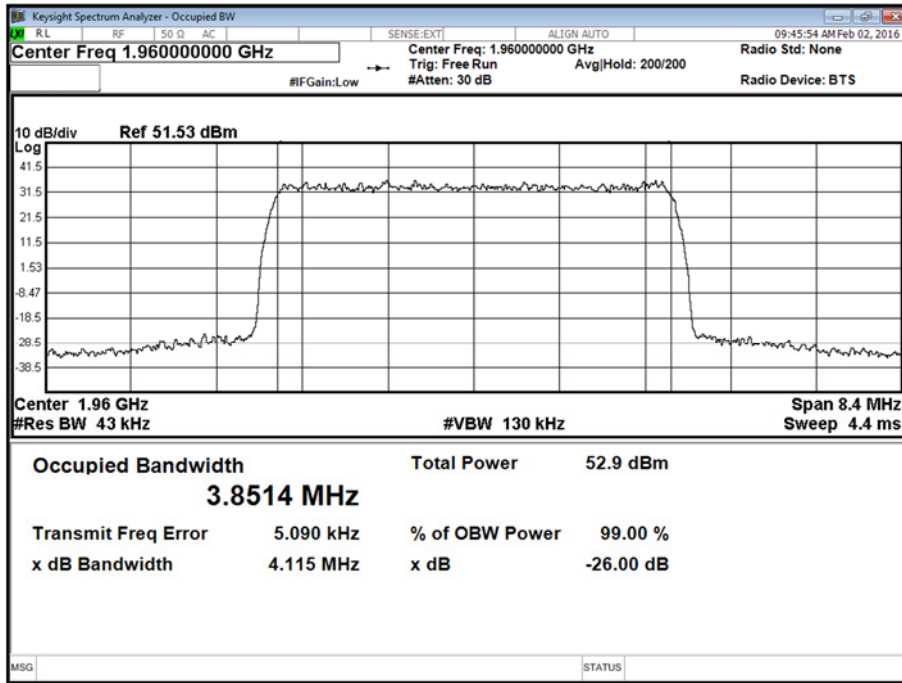
Channel Position B - Bandwidth 4.2 MHz - Antenna B



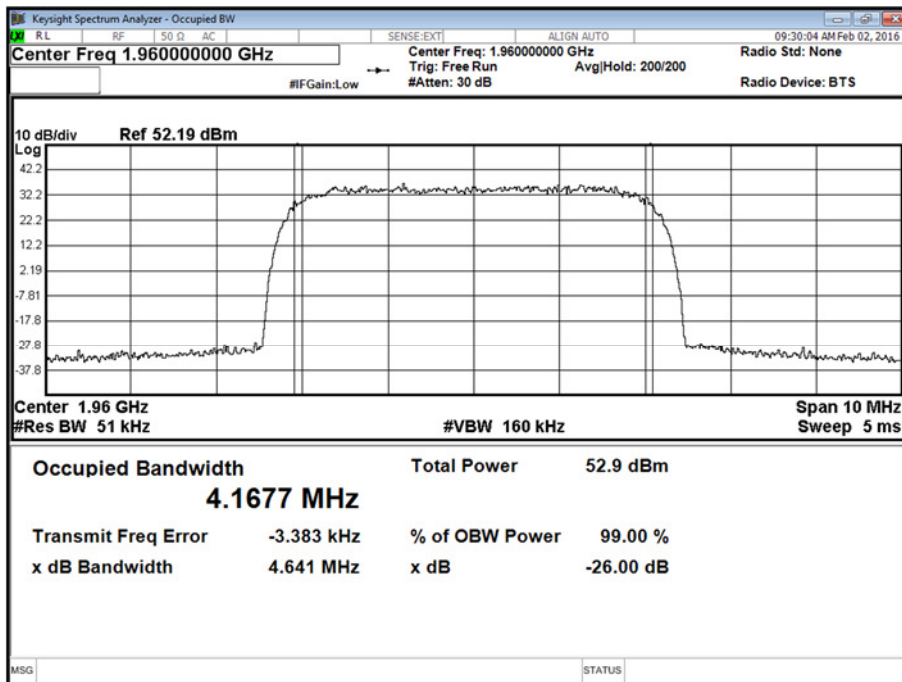
Channel Position B - Bandwidth 5.0 MHz - Antenna B



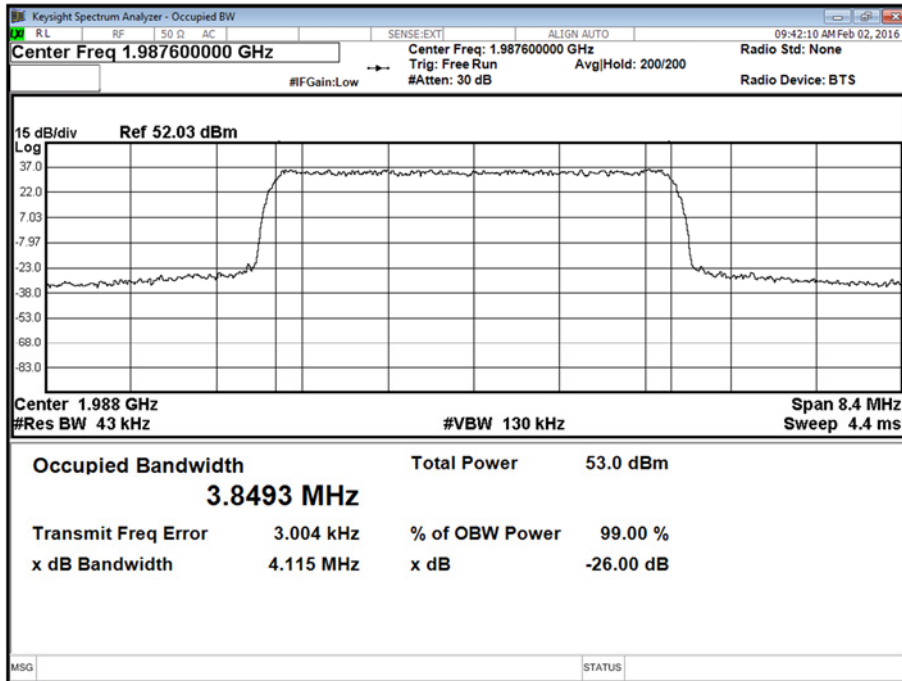
Channel Position M - Bandwidth 4.2 MHz - Antenna B



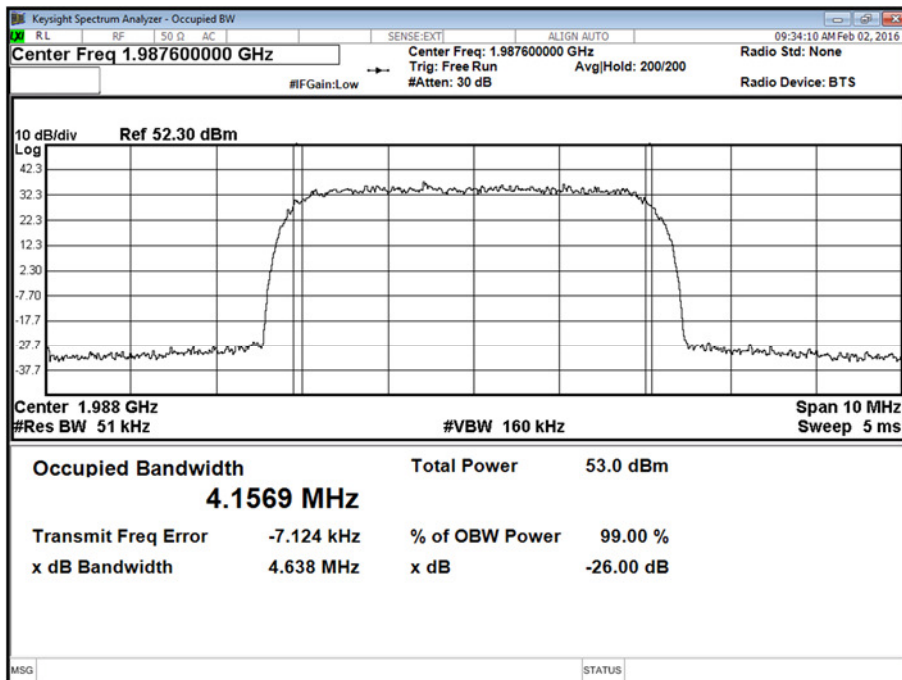
Channel Position M - Bandwidth 5.0 MHz - Antenna B



Channel Position T - Bandwidth 4.2 MHz - Antenna B



Channel Position T - Bandwidth 5.0 MHz - Antenna B

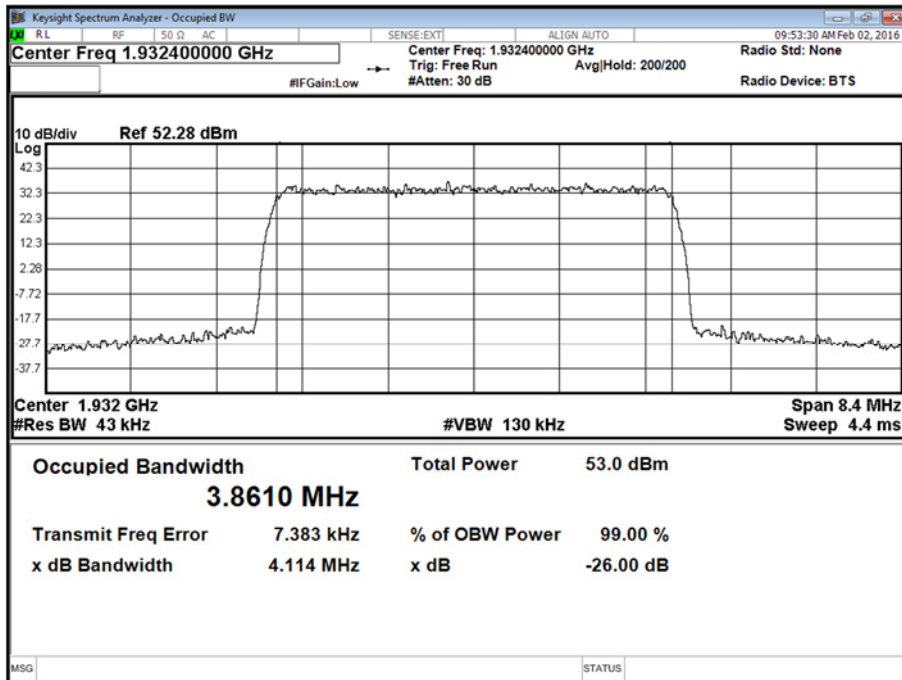


Configuration 1 Antenna C

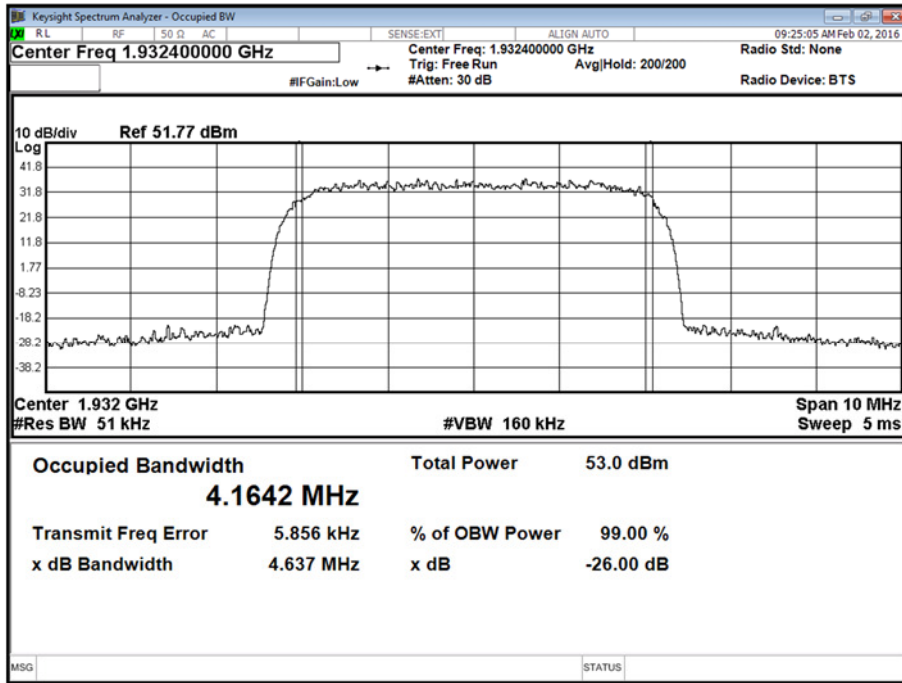
Maximum Output Power 44.77 dBm

Carrier Bandwidth / Modulation	Result (kHz)					
	Channel Position B		Channel Position M		Channel Position T	
	Occupied Bandwidth	-26 dB Bandwidth	Occupied Bandwidth	-26 dB Bandwidth	Occupied Bandwidth	-26 dB Bandwidth
4.2 MHz / QPSK	3,860.96	4,114.04	3,859.99	4,114.58	3,846.68	4,104.20
5.0 MHz / QPSK	4,164.18	4,636.58	4,165.60	4,639.26	4,148.48	4,630.93

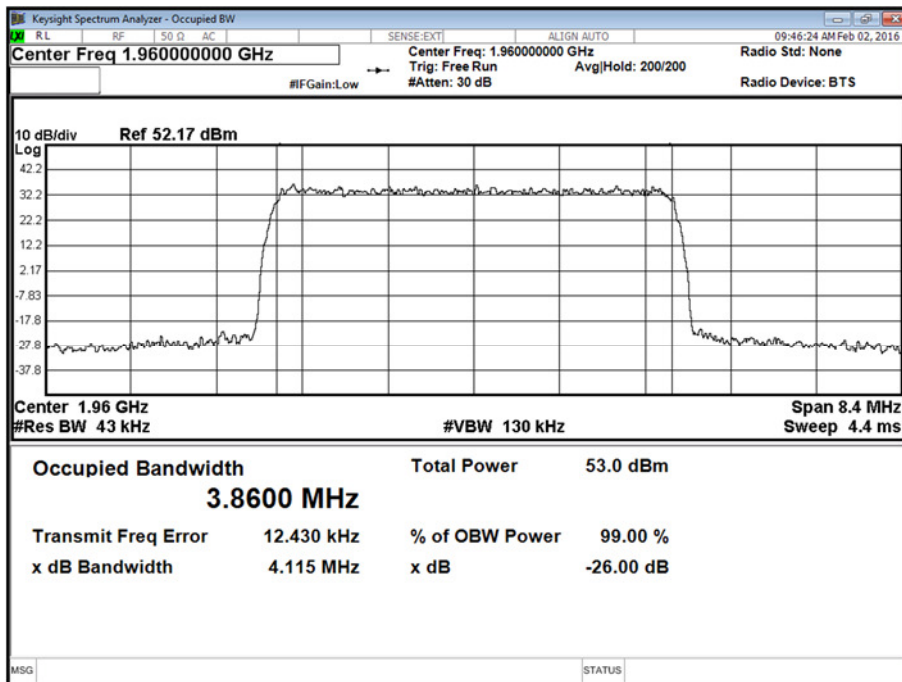
Channel Position B - Bandwidth 4.2 MHz - Antenna C



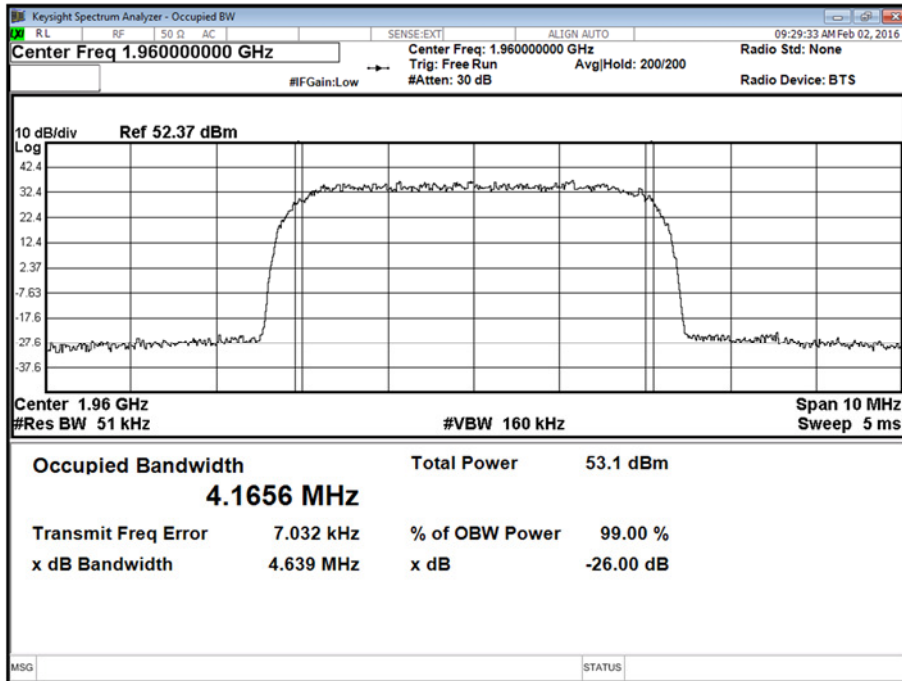
Channel Position B - Bandwidth 5.0 MHz - Antenna C



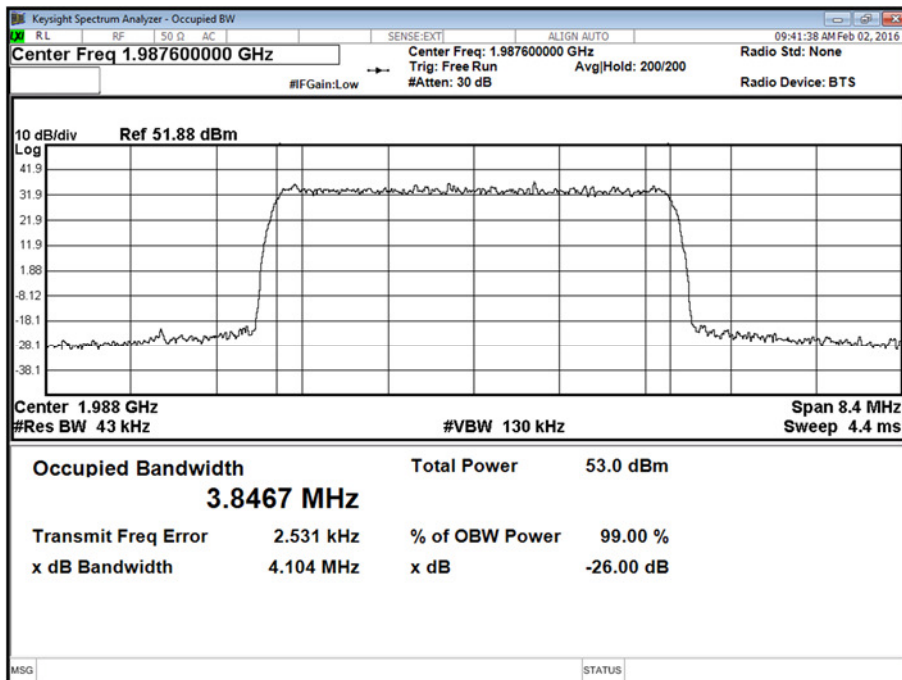
Channel Position M - Bandwidth 4.2 MHz - Antenna C



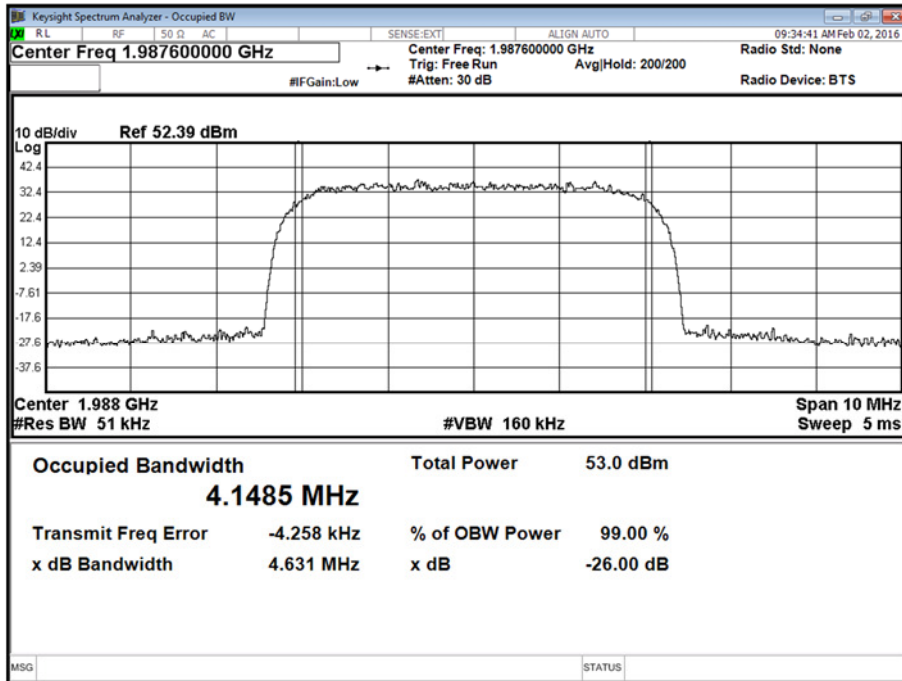
Channel Position M - Bandwidth 5.0 MHz - Antenna C



Channel Position T - Bandwidth 4.2 MHz - Antenna C



Channel Position T - Bandwidth 5.0 MHz - Antenna C

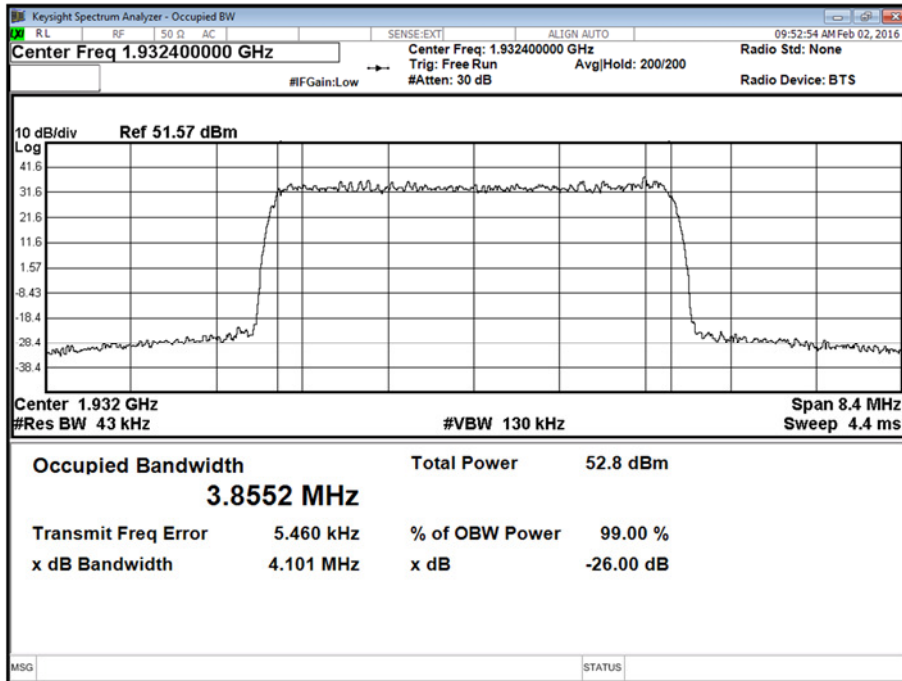


Configuration 1 Antenna D

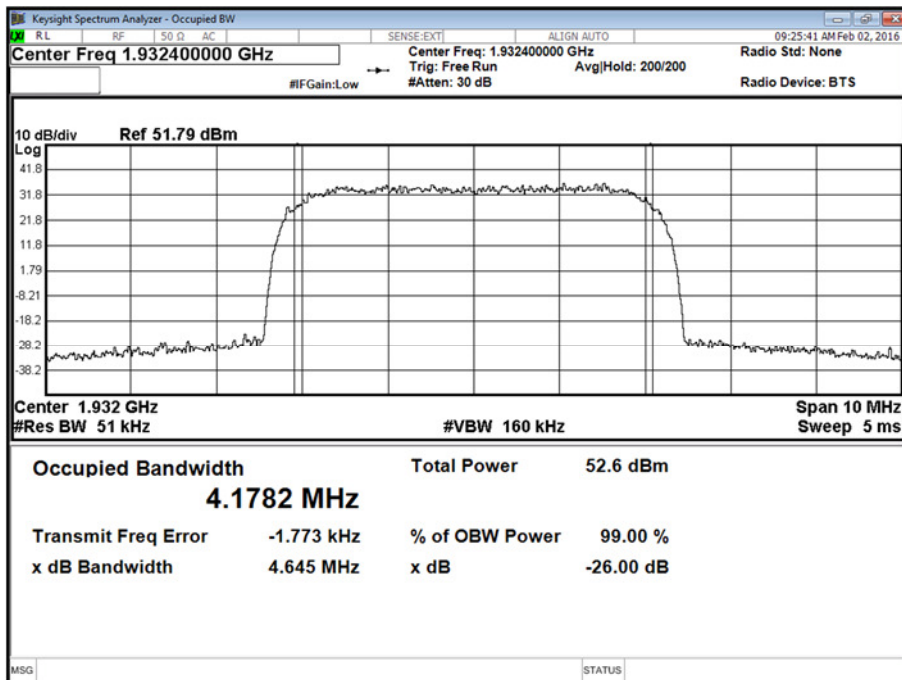
Maximum Output Power 44.77 dBm

Carrier Bandwidth / Modulation	Result (kHz)					
	Channel Position B		Channel Position M		Channel Position T	
	Occupied Bandwidth	-26 dB Bandwidth	Occupied Bandwidth	-26 dB Bandwidth	Occupied Bandwidth	-26 dB Bandwidth
4.2 MHz / QPSK	3,855.21	4,101.09	3,860.14	4,109.50	3,856.95	4,113.32
5.0 MHz / QPSK	4,178.23	4,645.11	4,159.00	4,638.53	4,157.18	4,640.04

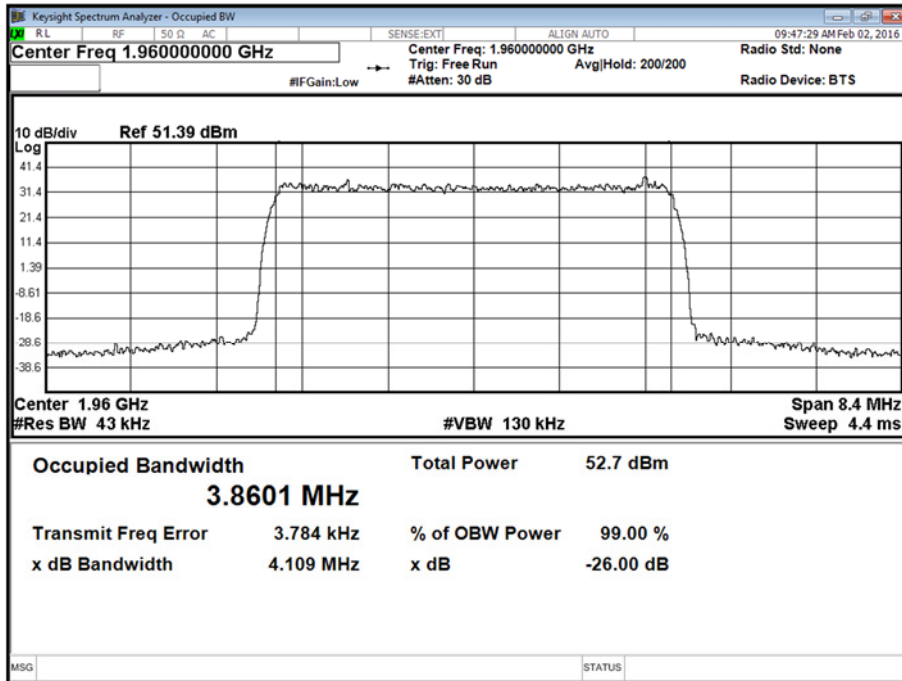
Channel Position B - Bandwidth 4.2 MHz - Antenna D



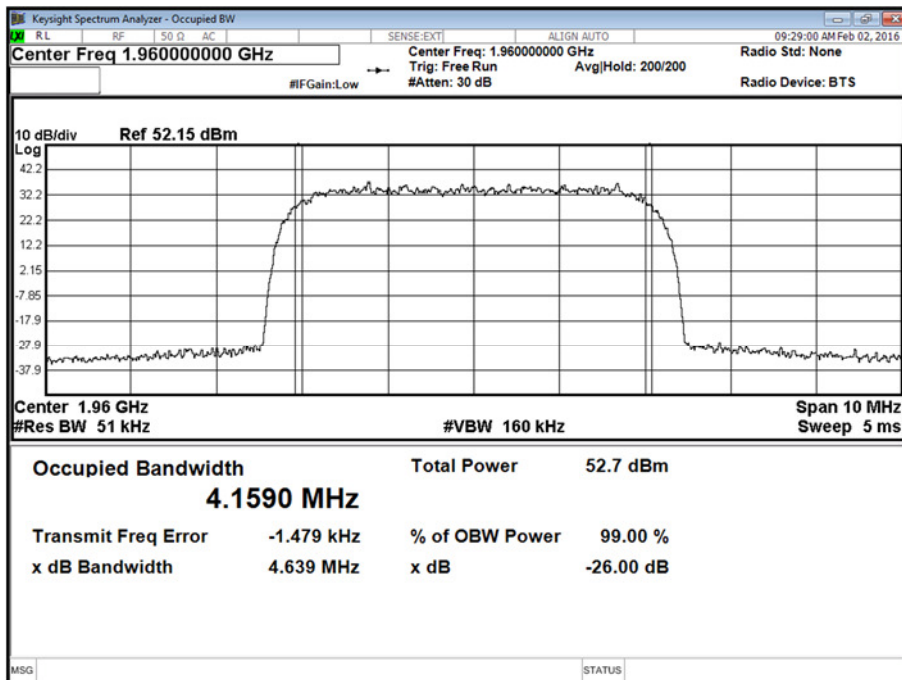
Channel Position B - Bandwidth 5.0 MHz - Antenna D



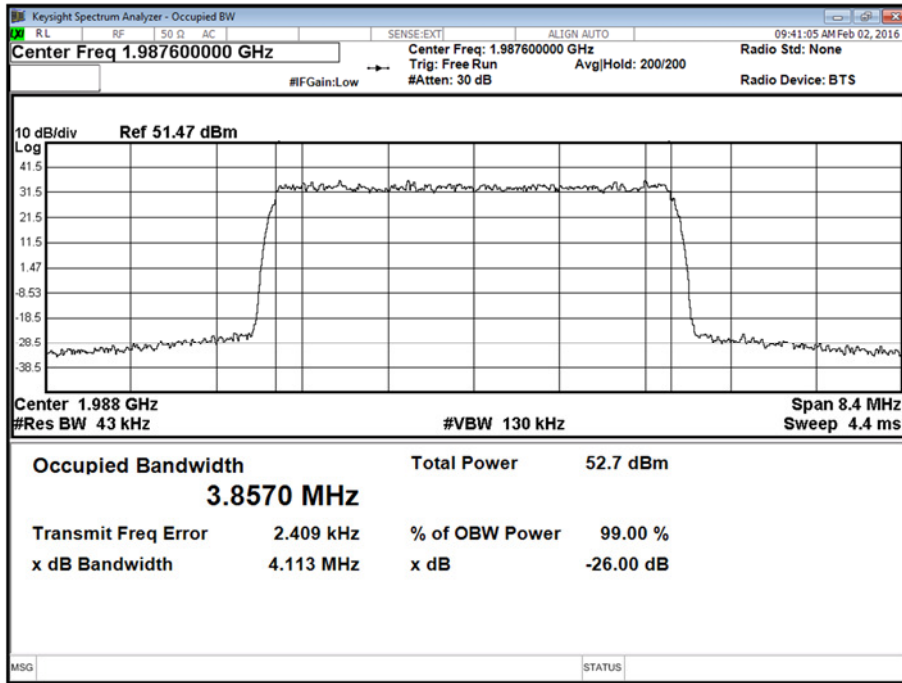
Channel Position M - Bandwidth 4.2 MHz - Antenna D



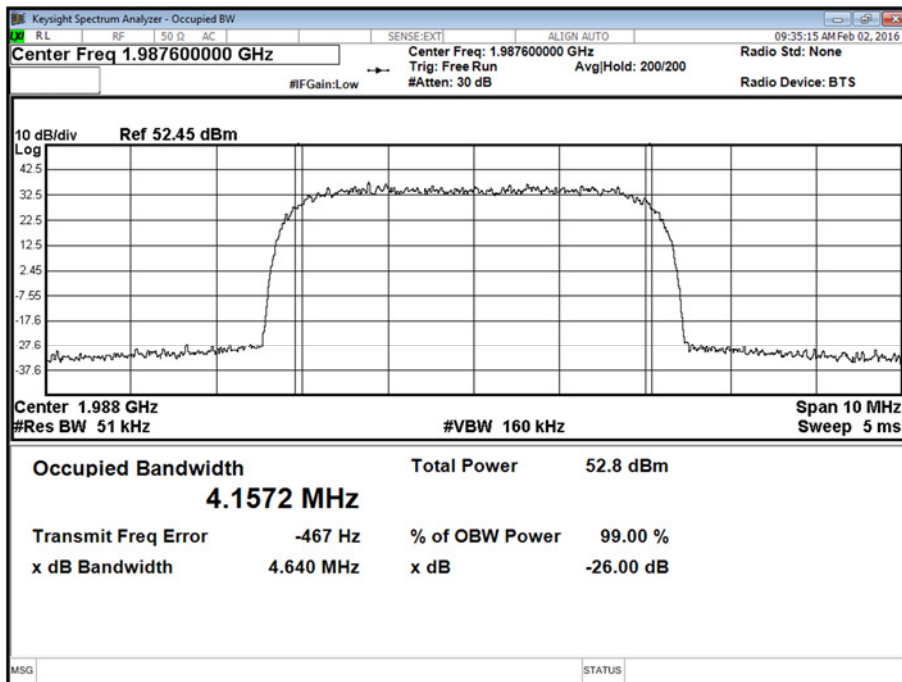
Channel Position M - Bandwidth 5.0 MHz - Antenna D



Channel Position T - Bandwidth 4.2 MHz - Antenna D



Channel Position T - Bandwidth 5.0 MHz - Antenna D

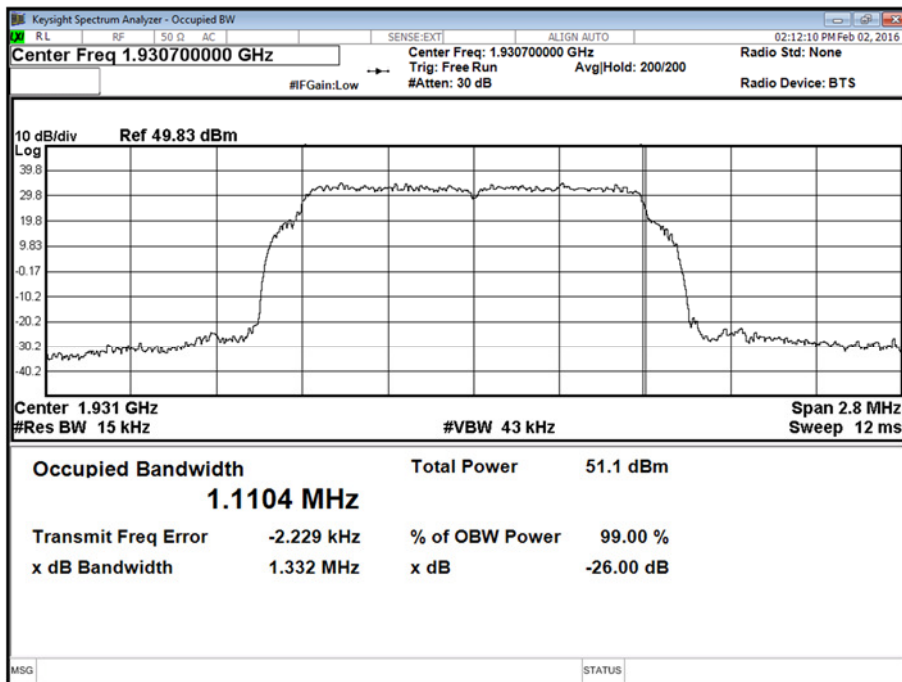


Configuration 3 Antenna A

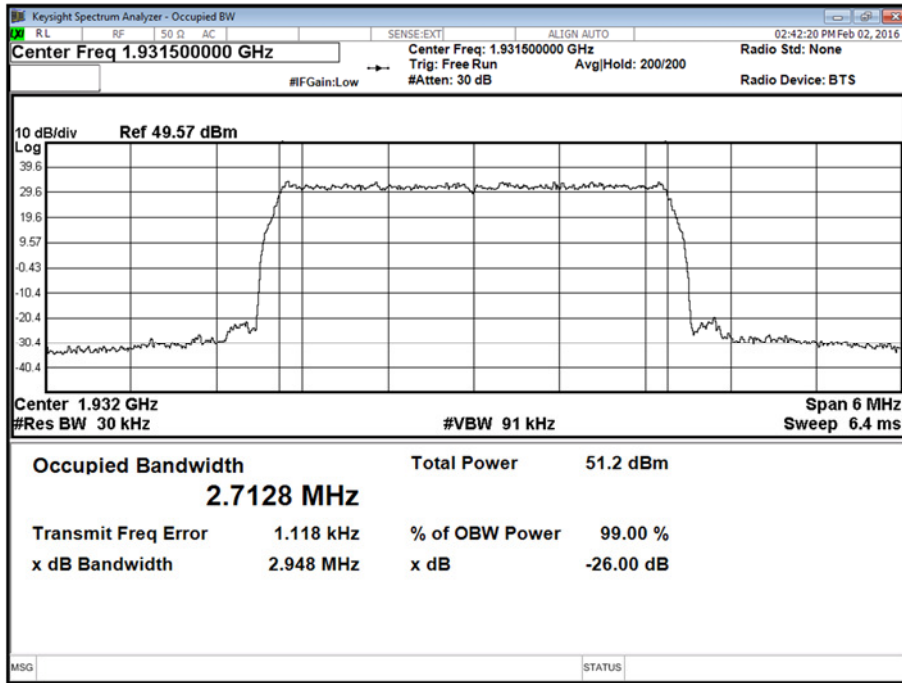
Maximum Output Power 44.77 dBm

Carrier Bandwidth / Modulation	Result (kHz)					
	Channel Position B		Channel Position M		Channel Position T	
	Occupied Bandwidth	-26 dB Bandwidth	Occupied Bandwidth	-26 dB Bandwidth	Occupied Bandwidth	-26 dB Bandwidth
1.4 MHz / QPSK	1,110.44	1,332.44	1,110.85	1,329.96	1,111.09	1,324.50
3.0 MHz / QPSK	2,712.80	2,948.43	2,703.18	2,946.87	2,708.47	2,947.30
5.0 MHz / QPSK	4,476.90	4,800.23	4,480.57	4,811.40	4,481.04	4,809.92
10.0 MHz / QPSK	8,946.07	9,610.07	8,954.61	9,585.60	8,959.15	9,624.78
15.0 MHz / QPSK	13,424.38	14,388.49	13,401.42	14,400.43	13,412.10	14,261.62
20.0 MHz / QPSK	17,899.84	19,089.15	17,881.75	19,174.74	17,871.13	19,090.93

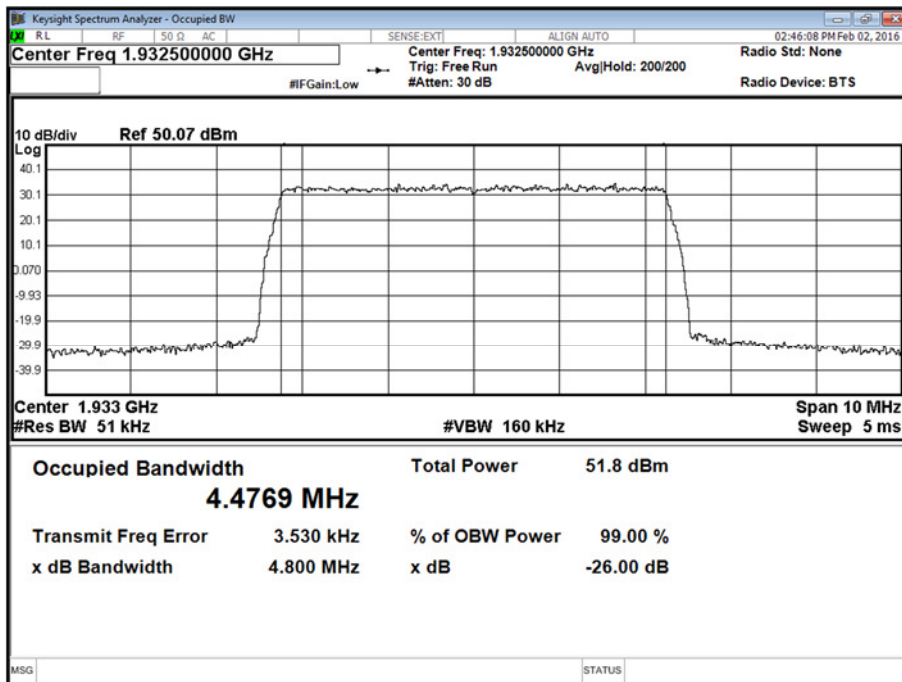
Channel Position B - Bandwidth 1.4 MHz - Antenna A



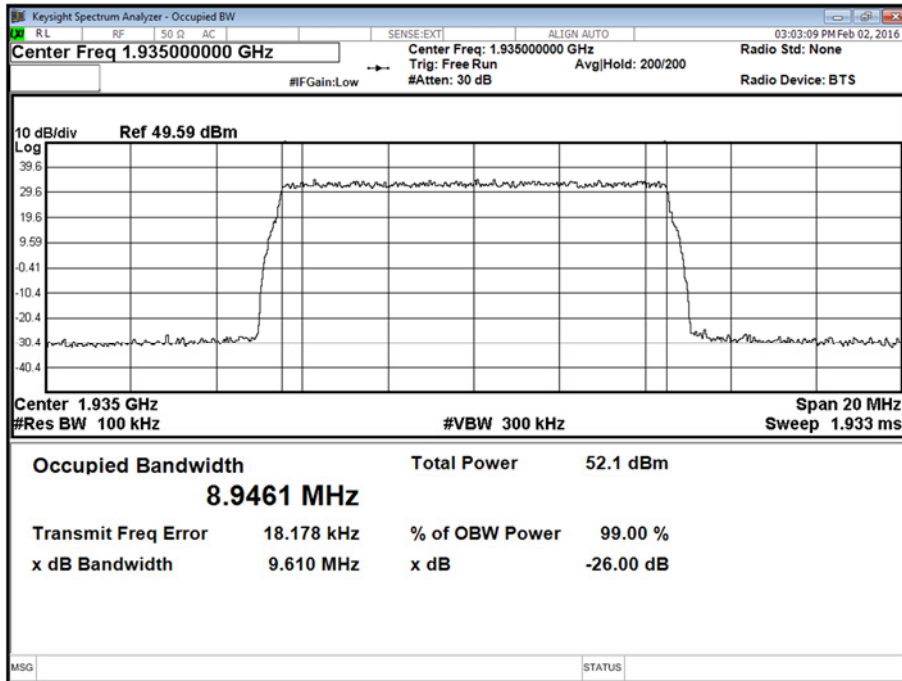
Channel Position B - Bandwidth 3.0 MHz - Antenna A



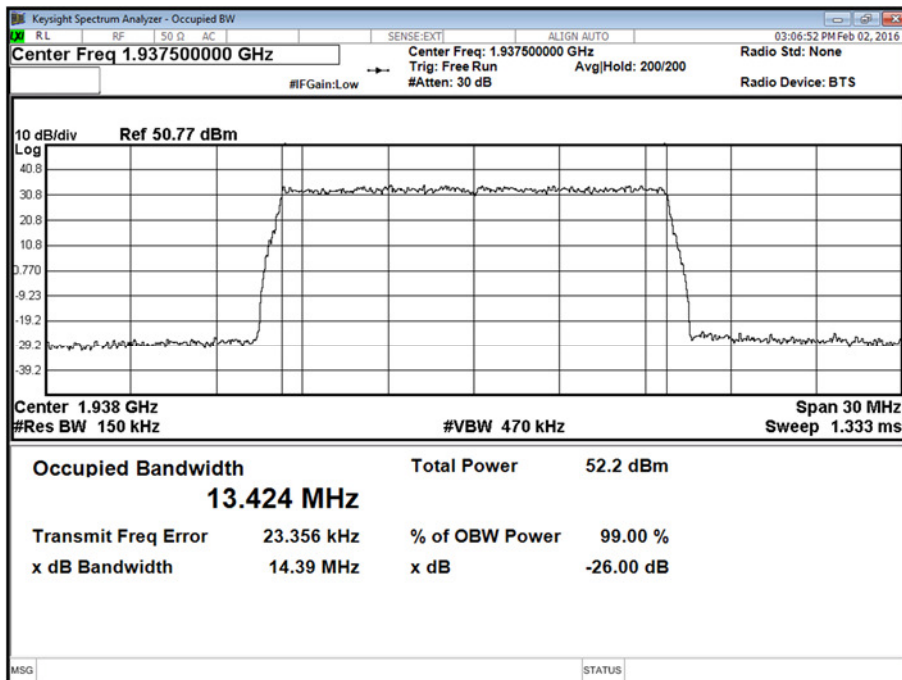
Channel Position B - Bandwidth 5.0 MHz - Antenna A



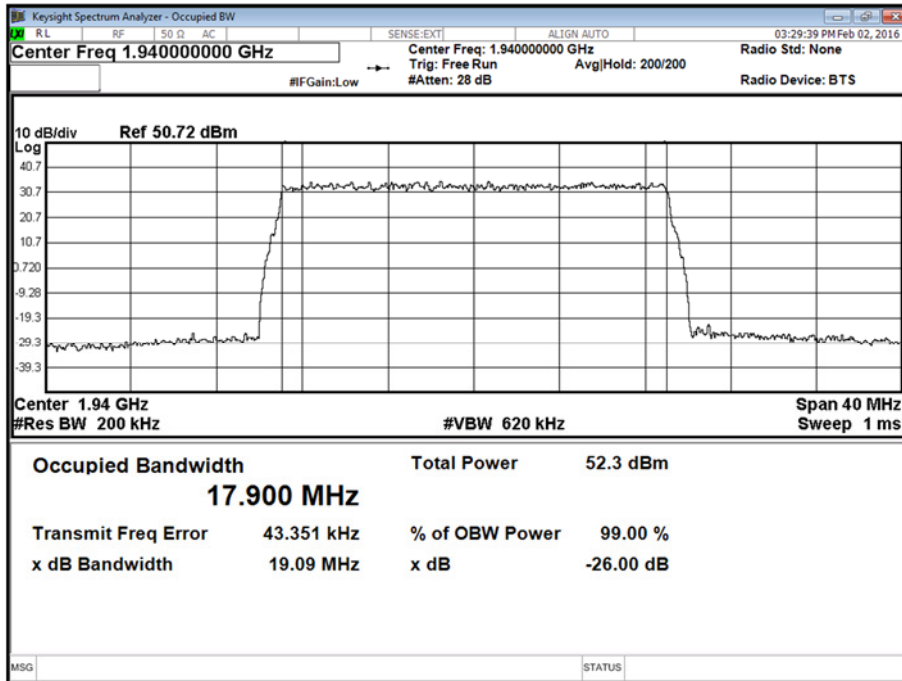
Channel Position B - Bandwidth 10.0 MHz - Antenna A



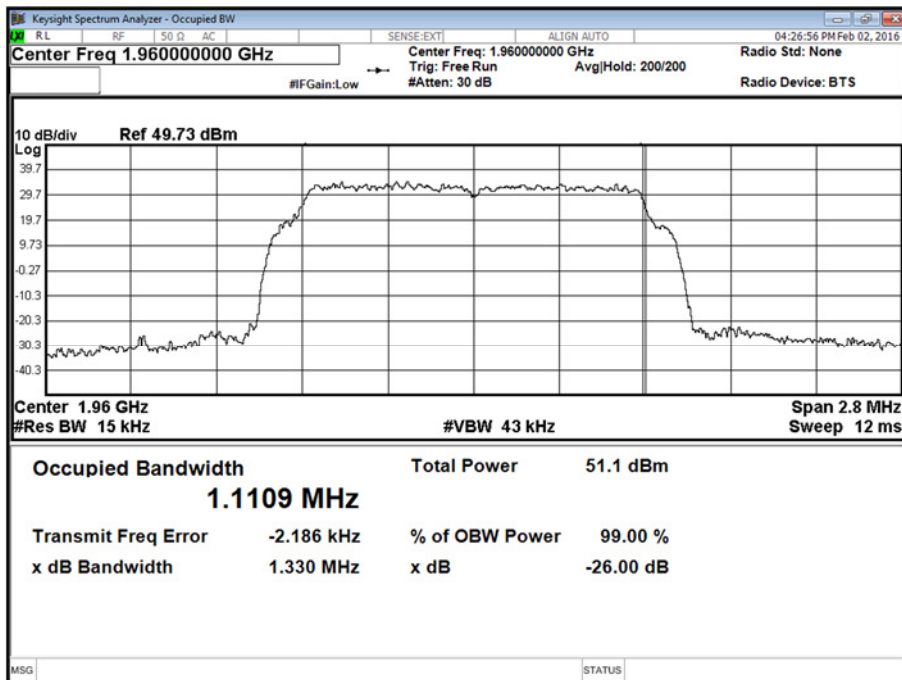
Channel Position B - Bandwidth 15.0 MHz - Antenna A



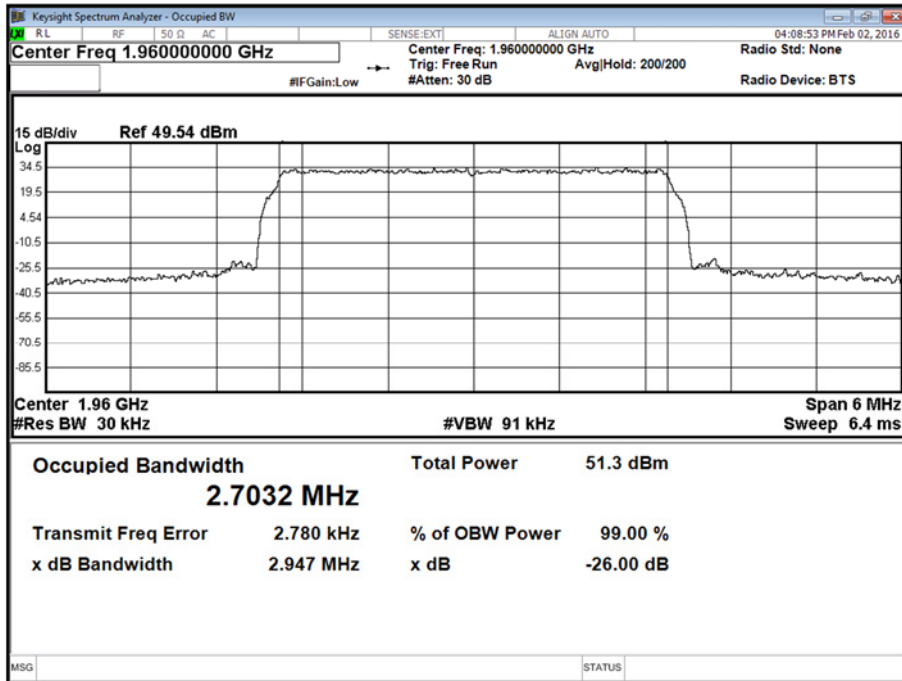
Channel Position B - Bandwidth 20.0 MHz - Antenna A



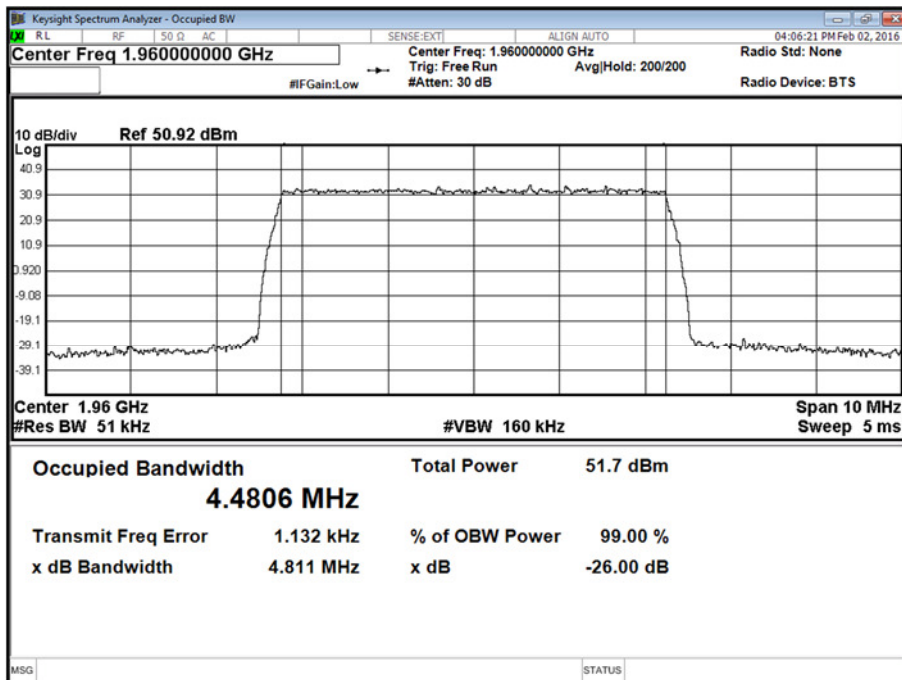
Channel Position M - Bandwidth 1.4 MHz - Antenna A



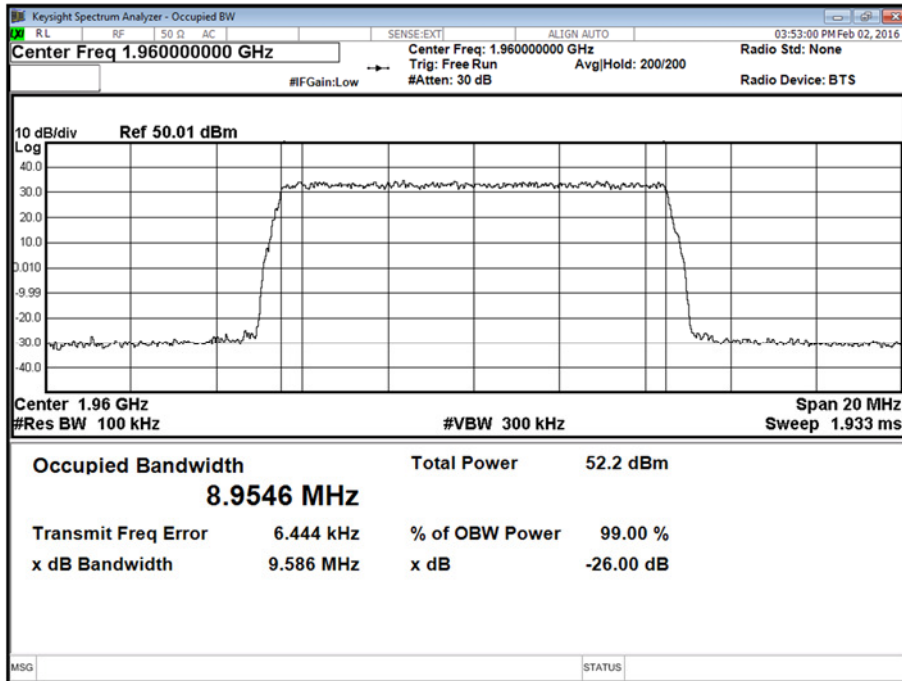
Channel Position M - Bandwidth 3.0 MHz - Antenna A



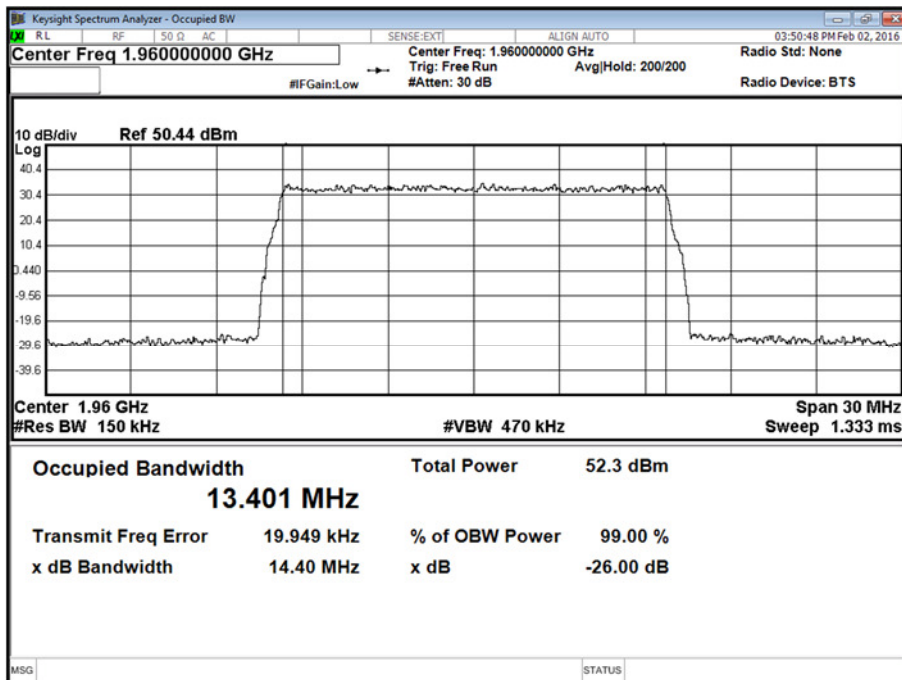
Channel Position M - Bandwidth 5.0 MHz - Antenna A



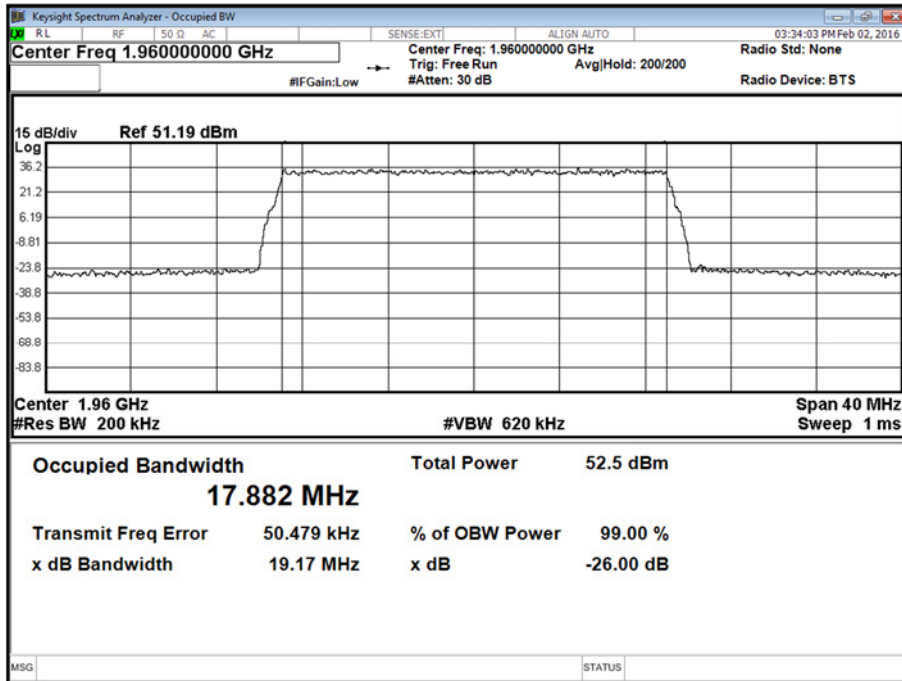
Channel Position M - Bandwidth 10.0 MHz - Antenna A



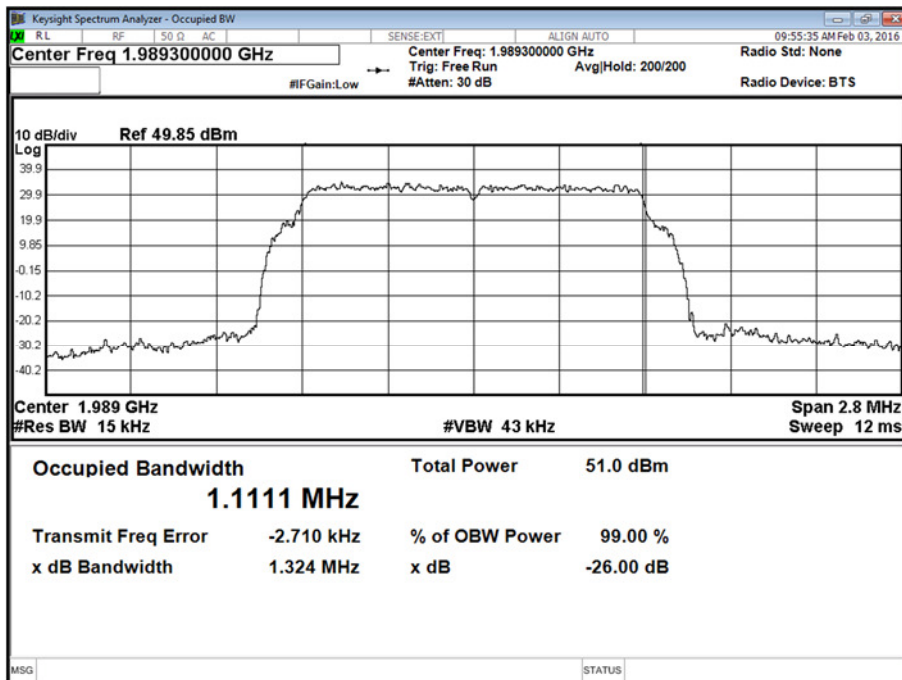
Channel Position M - Bandwidth 15.0 MHz - Antenna A



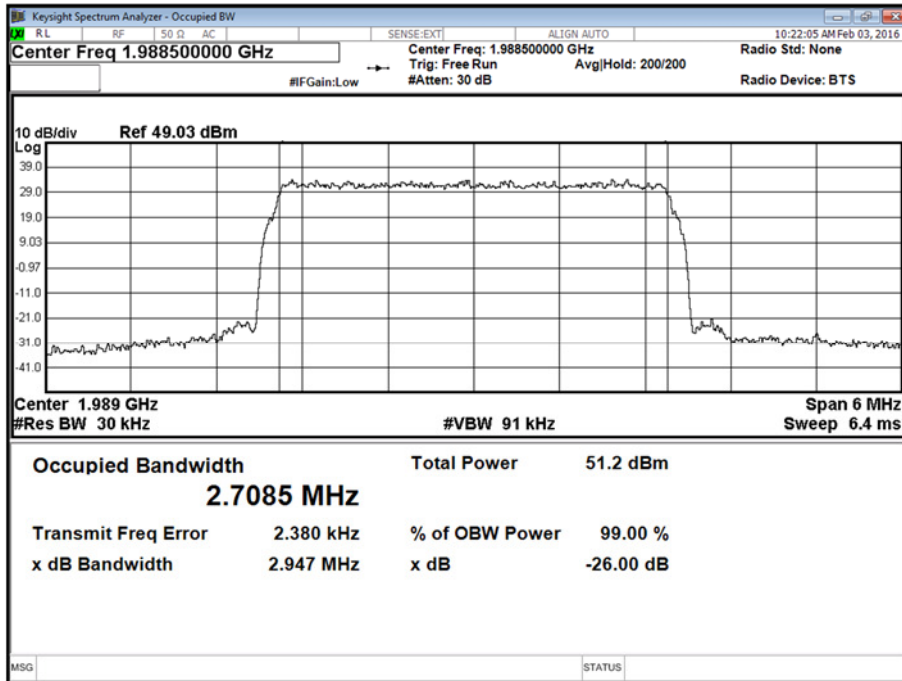
Channel Position M - Bandwidth 20.0 MHz - Antenna A



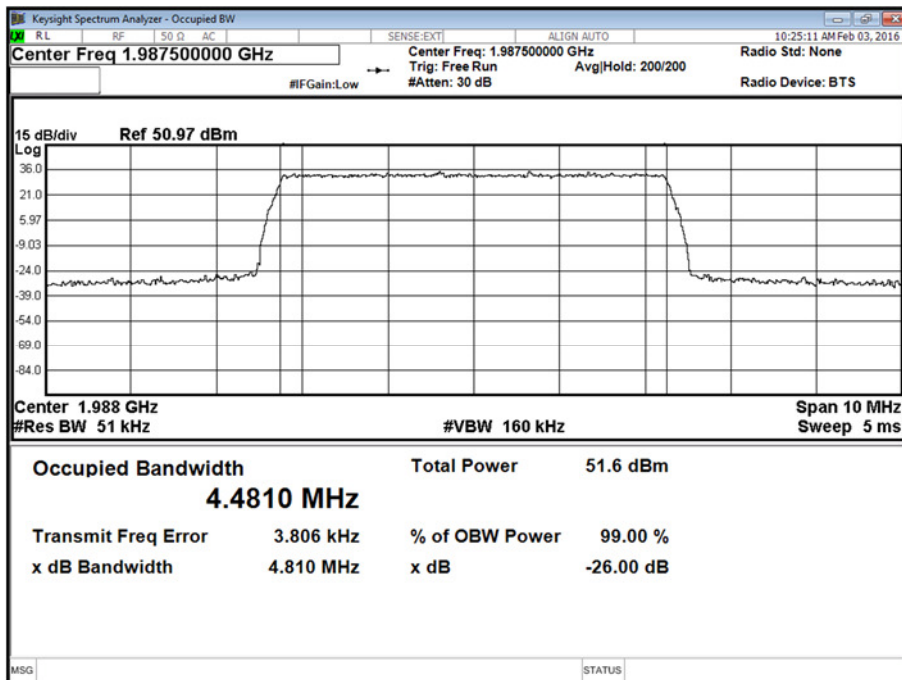
Channel Position T - Bandwidth 1.4 MHz - Antenna A



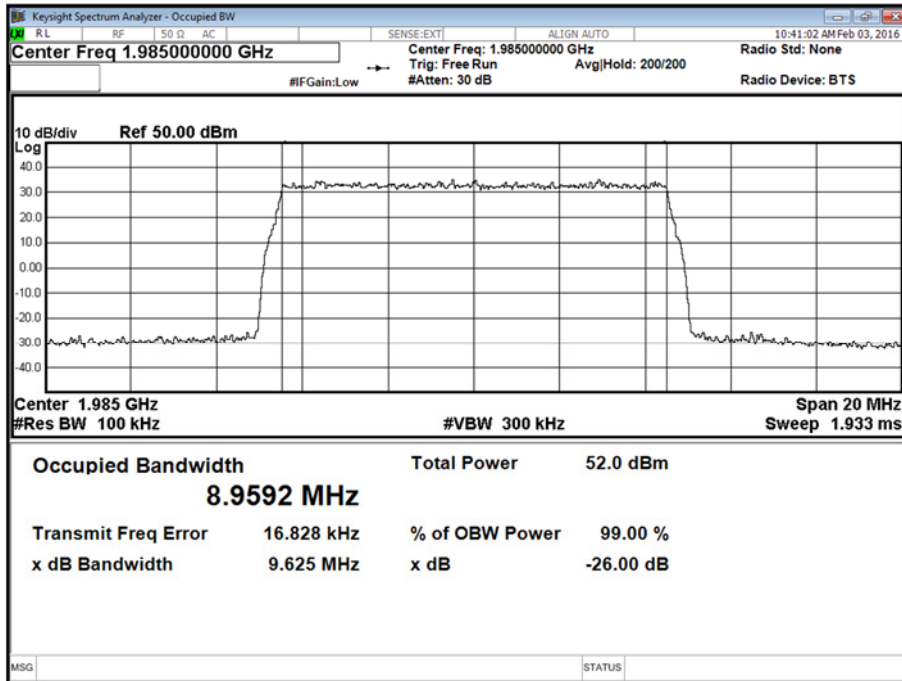
Channel Position T - Bandwidth 3.0 MHz - Antenna A



Channel Position T - Bandwidth 5.0 MHz - Antenna A



Channel Position T - Bandwidth 10.0 MHz - Antenna A



Channel Position T - Bandwidth 15.0 MHz - Antenna A

