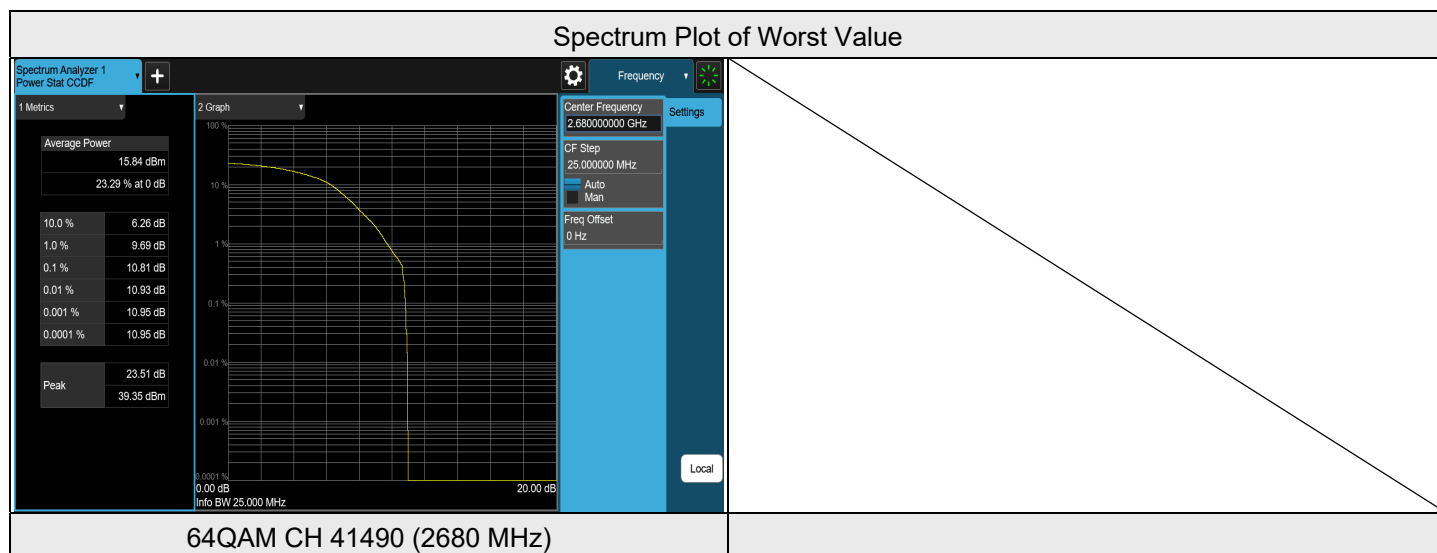


LTE Band 41, Channel Bandwidth: 20 MHz

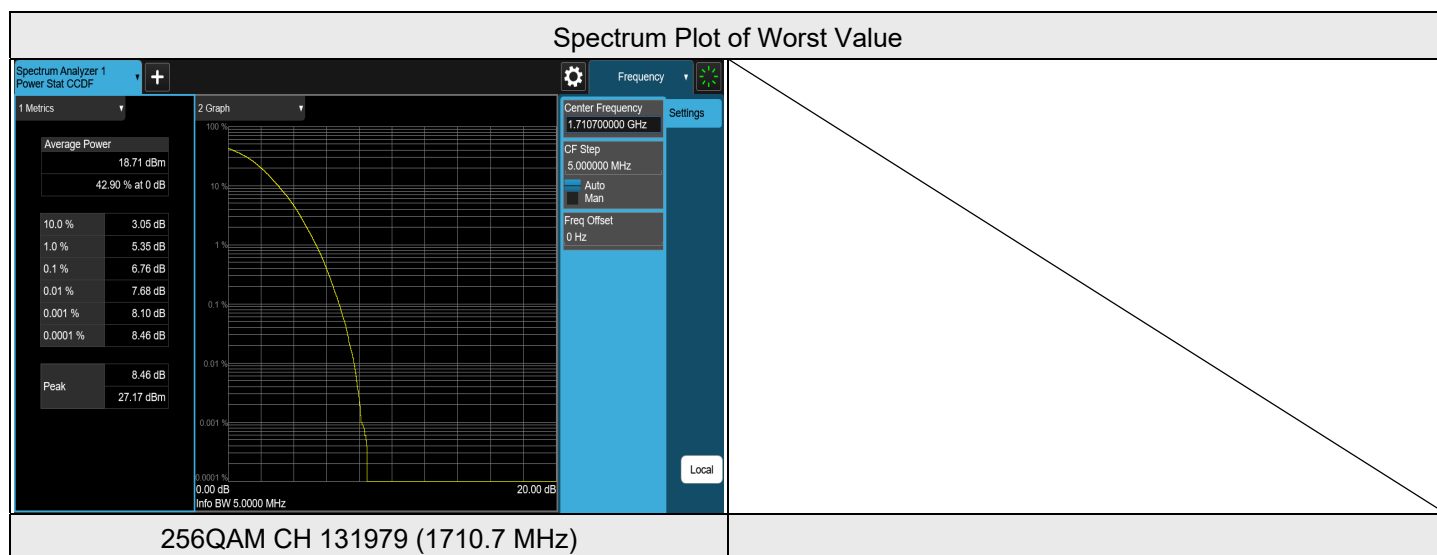
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	39750	2506	6.86	13	Pass
QPSK	40620	2593	8.37	13	Pass
QPSK	41490	2680	7.00	13	Pass
16QAM	39750	2506	9.09	13	Pass
16QAM	40620	2593	8.93	13	Pass
16QAM	41490	2680	9.09	13	Pass
64QAM	39750	2506	9.27	13	Pass
64QAM	40620	2593	10.78	13	Pass
64QAM	41490	2680	10.81	13	Pass
256QAM	39750	2506	8.92	13	Pass
256QAM	40620	2593	10.28	13	Pass
256QAM	41490	2680	9.86	13	Pass



7.3.15 LTE Band 66

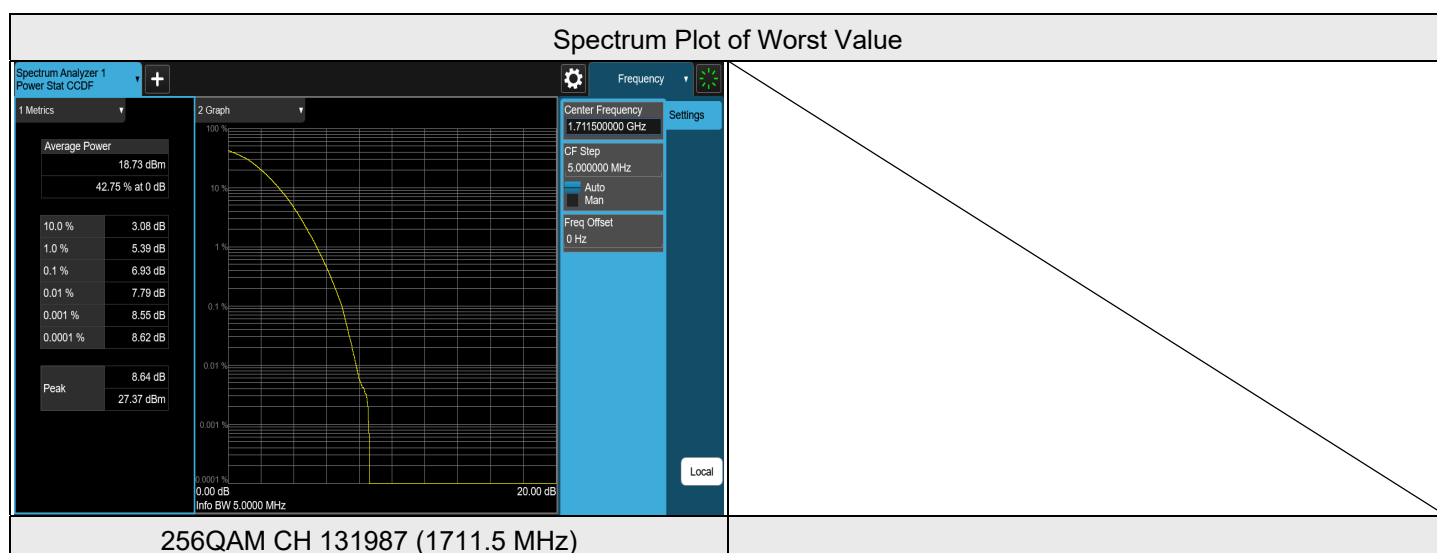
LTE Band 66, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	131979	1710.7	3.64	13	Pass
QPSK	132322	1745	3.45	13	Pass
QPSK	132665	1779.3	3.43	13	Pass
16QAM	131979	1710.7	4.57	13	Pass
16QAM	132322	1745	4.40	13	Pass
16QAM	132665	1779.3	4.47	13	Pass
64QAM	131979	1710.7	5.45	13	Pass
64QAM	132322	1745	5.39	13	Pass
64QAM	132665	1779.3	5.30	13	Pass
256QAM	131979	1710.7	6.76	13	Pass
256QAM	132322	1745	6.69	13	Pass
256QAM	132665	1779.3	6.52	13	Pass



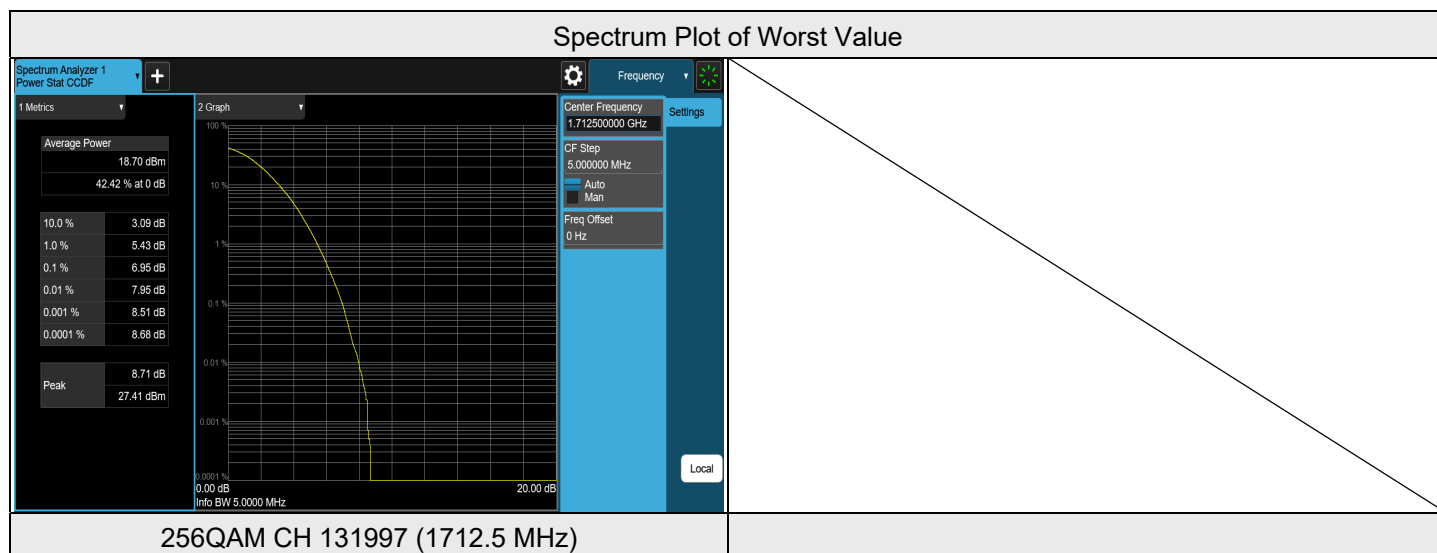
LTE Band 66, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	131987	1711.5	3.64	13	Pass
QPSK	132322	1745	3.59	13	Pass
QPSK	132657	1778.5	3.48	13	Pass
16QAM	131987	1711.5	4.63	13	Pass
16QAM	132322	1745	4.52	13	Pass
16QAM	132657	1778.5	4.46	13	Pass
64QAM	131987	1711.5	5.53	13	Pass
64QAM	132322	1745	5.47	13	Pass
64QAM	132657	1778.5	5.33	13	Pass
256QAM	131987	1711.5	6.93	13	Pass
256QAM	132322	1745	6.77	13	Pass
256QAM	132657	1778.5	6.59	13	Pass



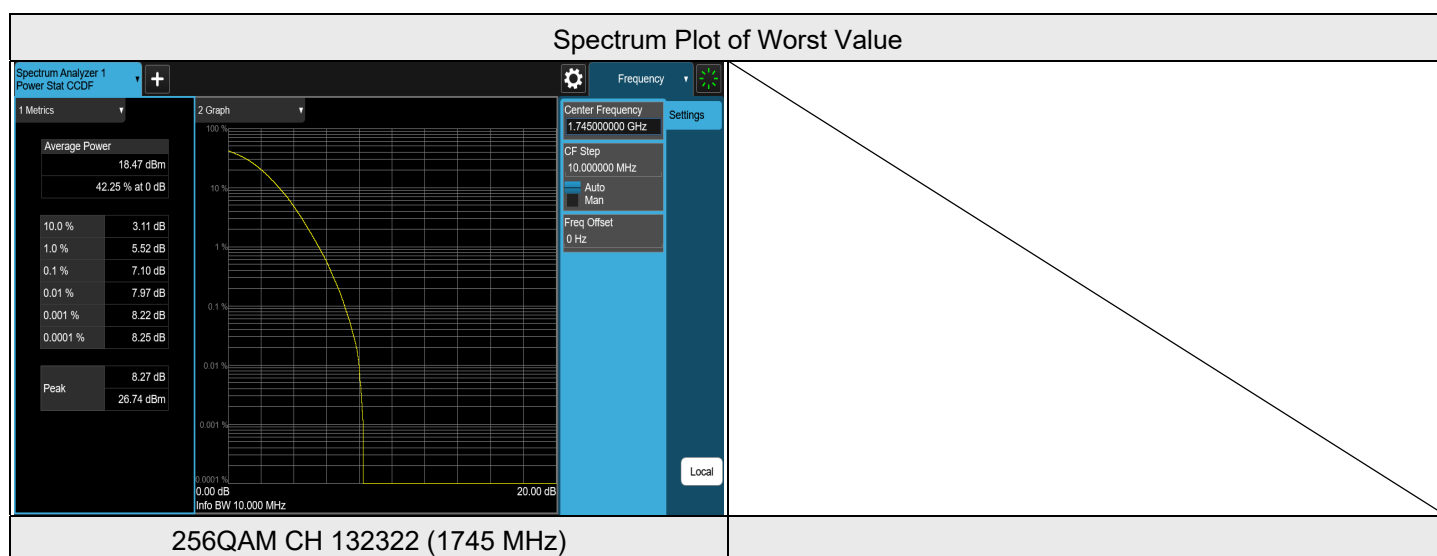
LTE Band 66, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	131997	1712.5	3.59	13	Pass
QPSK	132322	1745	3.55	13	Pass
QPSK	132647	1777.5	3.49	13	Pass
16QAM	131997	1712.5	4.59	13	Pass
16QAM	132322	1745	4.56	13	Pass
16QAM	132647	1777.5	4.44	13	Pass
64QAM	131997	1712.5	5.58	13	Pass
64QAM	132322	1745	5.49	13	Pass
64QAM	132647	1777.5	5.31	13	Pass
256QAM	131997	1712.5	6.95	13	Pass
256QAM	132322	1745	6.81	13	Pass
256QAM	132647	1777.5	6.54	13	Pass



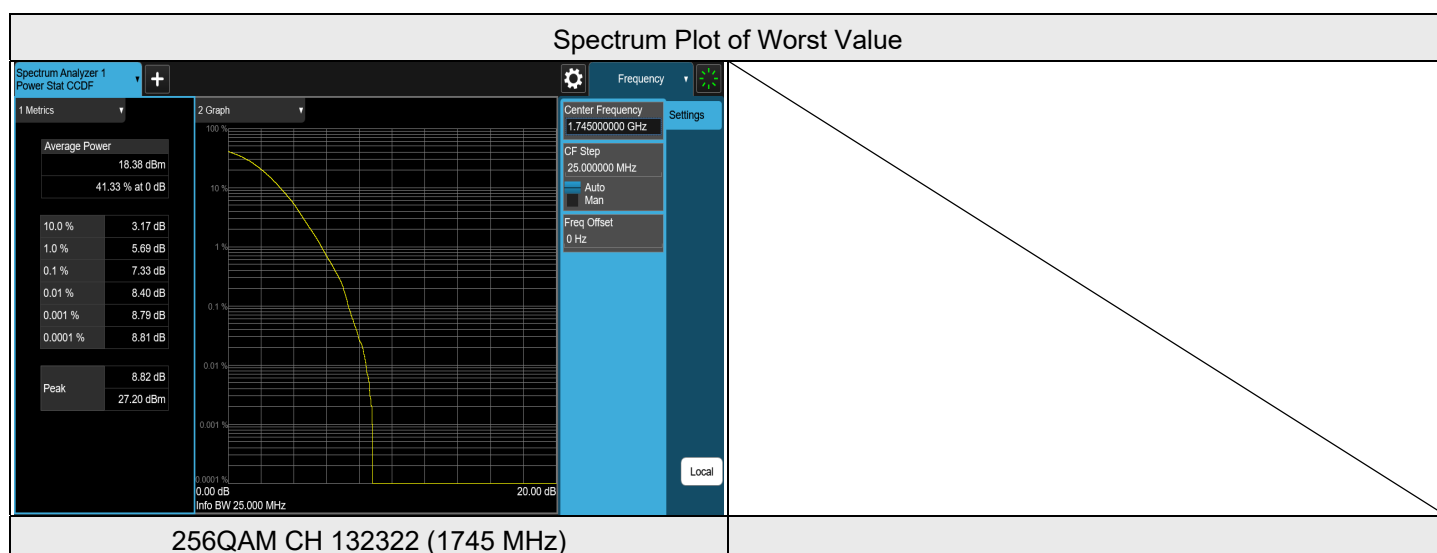
LTE Band 66, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	132022	1715	3.65	13	Pass
QPSK	132322	1745	3.62	13	Pass
QPSK	132622	1775	3.38	13	Pass
16QAM	132022	1715	4.68	13	Pass
16QAM	132322	1745	4.68	13	Pass
16QAM	132622	1775	4.36	13	Pass
64QAM	132022	1715	5.73	13	Pass
64QAM	132322	1745	5.64	13	Pass
64QAM	132622	1775	5.24	13	Pass
256QAM	132022	1715	7.07	13	Pass
256QAM	132322	1745	7.10	13	Pass
256QAM	132622	1775	6.38	13	Pass



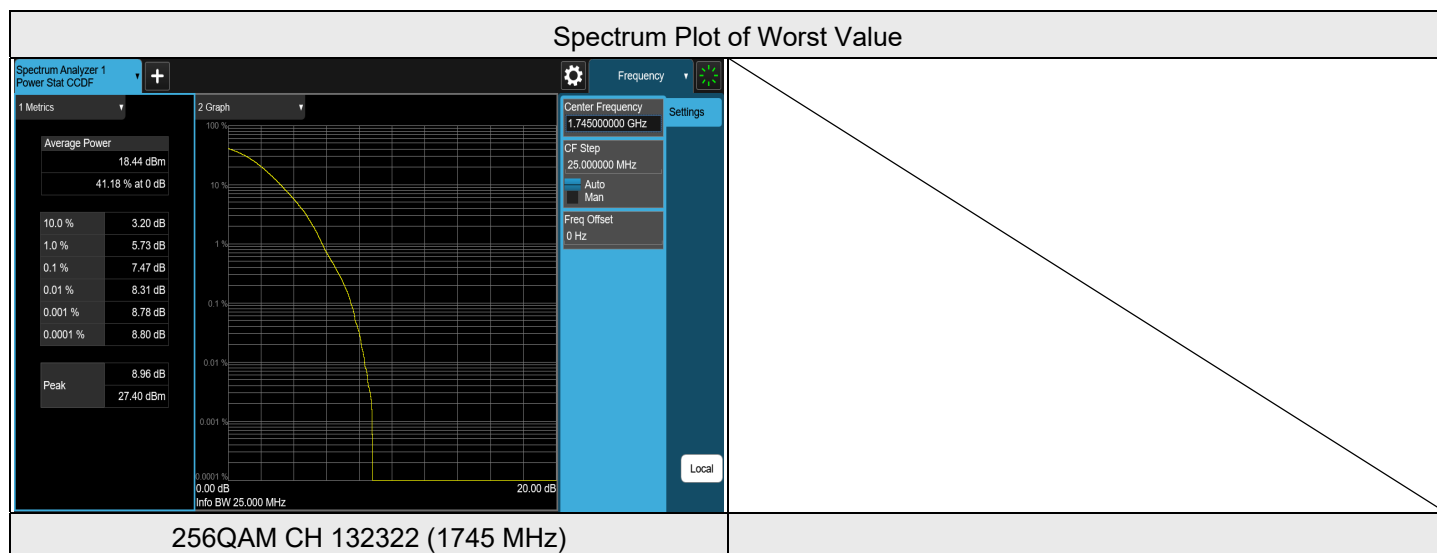
LTE Band 66, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	132047	1717.5	3.70	13	Pass
QPSK	132322	1745	3.74	13	Pass
QPSK	132597	1772.5	3.47	13	Pass
16QAM	132047	1717.5	4.69	13	Pass
16QAM	132322	1745	4.76	13	Pass
16QAM	132597	1772.5	4.36	13	Pass
64QAM	132047	1717.5	5.93	13	Pass
64QAM	132322	1745	5.76	13	Pass
64QAM	132597	1772.5	5.26	13	Pass
256QAM	132047	1717.5	7.12	13	Pass
256QAM	132322	1745	7.33	13	Pass
256QAM	132597	1772.5	6.10	13	Pass



LTE Band 66, Channel Bandwidth: 20 MHz

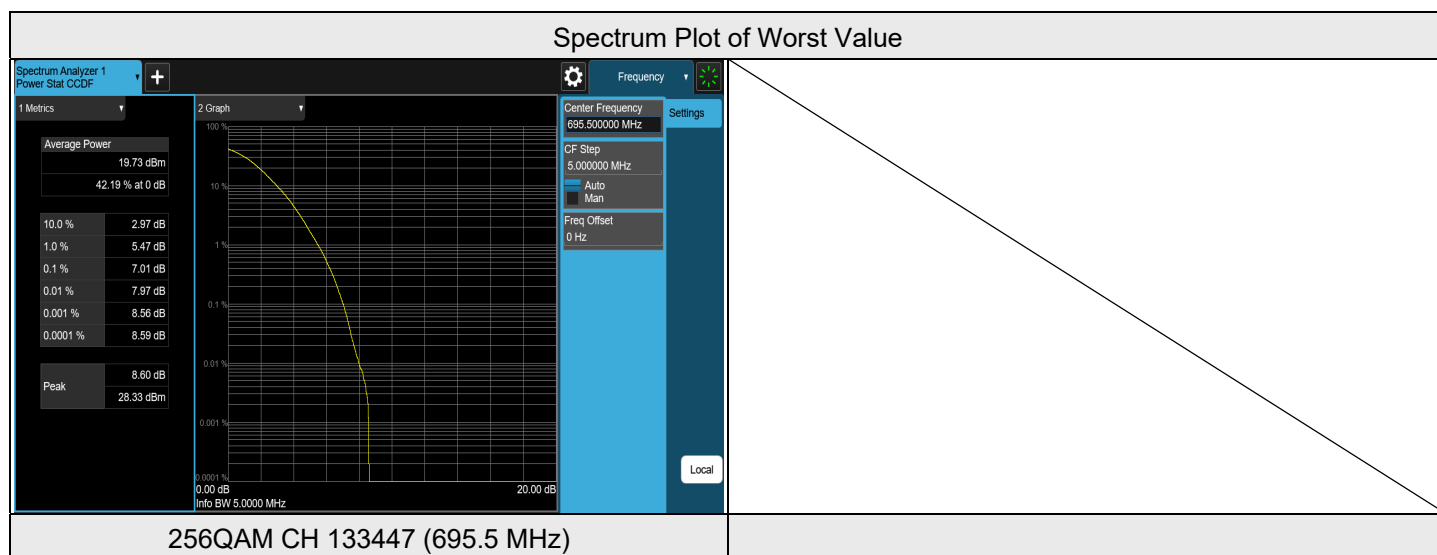
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	132072	1720	3.61	13	Pass
QPSK	132322	1745	3.83	13	Pass
QPSK	132572	1770	3.51	13	Pass
16QAM	132072	1720	4.61	13	Pass
16QAM	132322	1745	4.94	13	Pass
16QAM	132572	1770	4.40	13	Pass
64QAM	132072	1720	5.60	13	Pass
64QAM	132322	1745	5.88	13	Pass
64QAM	132572	1770	5.30	13	Pass
256QAM	132072	1720	7.03	13	Pass
256QAM	132322	1745	7.47	13	Pass
256QAM	132572	1770	6.55	13	Pass



7.3.16 LTE Band 71

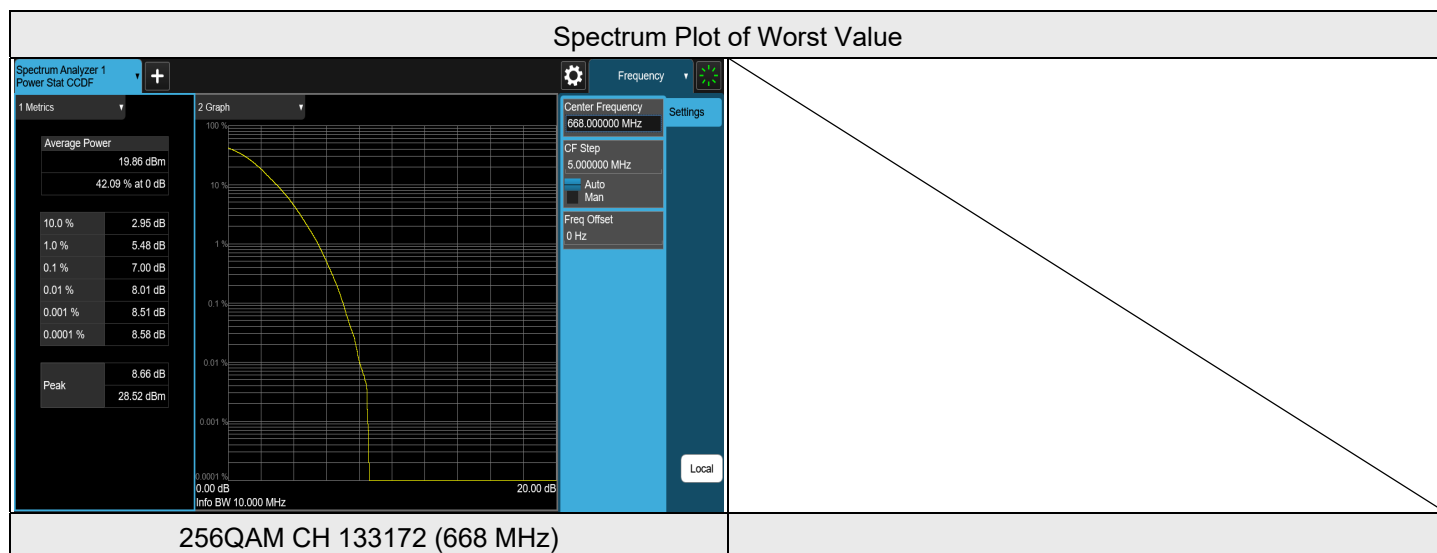
LTE Band 71, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	133147	665.5	3.50	13	Pass
QPSK	133297	680.5	3.51	13	Pass
QPSK	133447	695.5	3.55	13	Pass
16QAM	133147	665.5	4.47	13	Pass
16QAM	133297	680.5	4.53	13	Pass
16QAM	133447	695.5	4.52	13	Pass
64QAM	133147	665.5	5.43	13	Pass
64QAM	133297	680.5	5.51	13	Pass
64QAM	133447	695.5	5.55	13	Pass
256QAM	133147	665.5	6.81	13	Pass
256QAM	133297	680.5	6.98	13	Pass
256QAM	133447	695.5	7.01	13	Pass



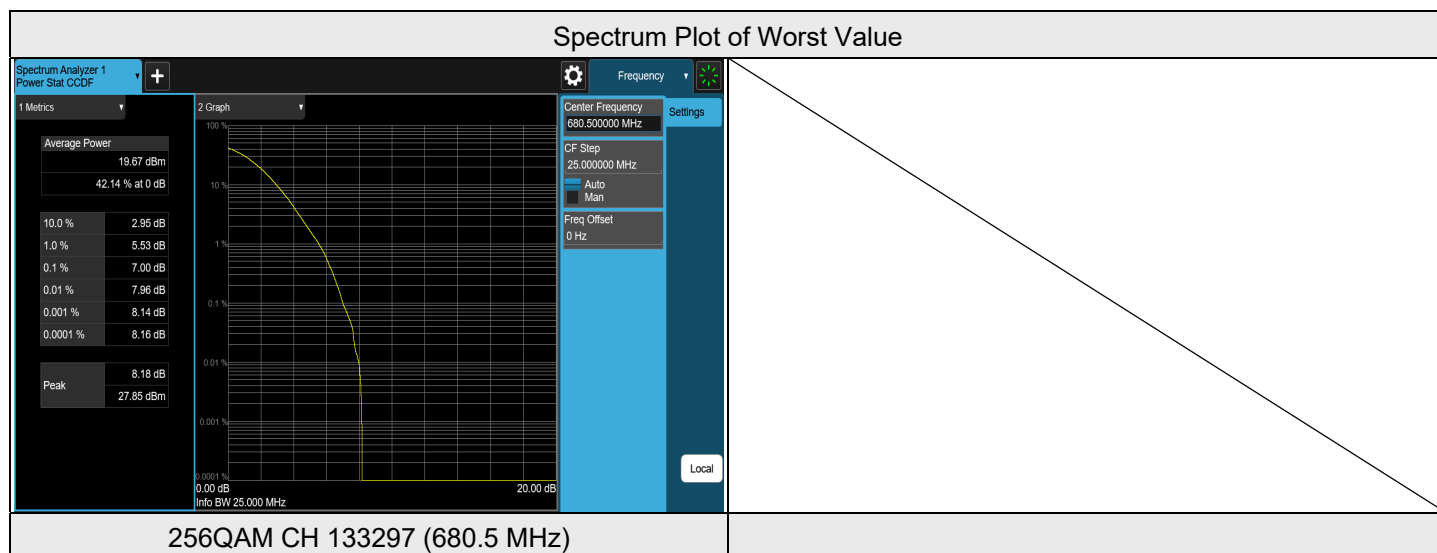
LTE Band 71, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	133172	668	3.36	13	Pass
QPSK	133297	680.5	3.42	13	Pass
QPSK	133422	693	3.49	13	Pass
16QAM	133172	668	4.48	13	Pass
16QAM	133297	680.5	4.60	13	Pass
16QAM	133422	693	4.53	13	Pass
64QAM	133172	668	5.43	13	Pass
64QAM	133297	680.5	5.54	13	Pass
64QAM	133422	693	5.45	13	Pass
256QAM	133172	668	7.00	13	Pass
256QAM	133297	680.5	6.89	13	Pass
256QAM	133422	693	6.87	13	Pass



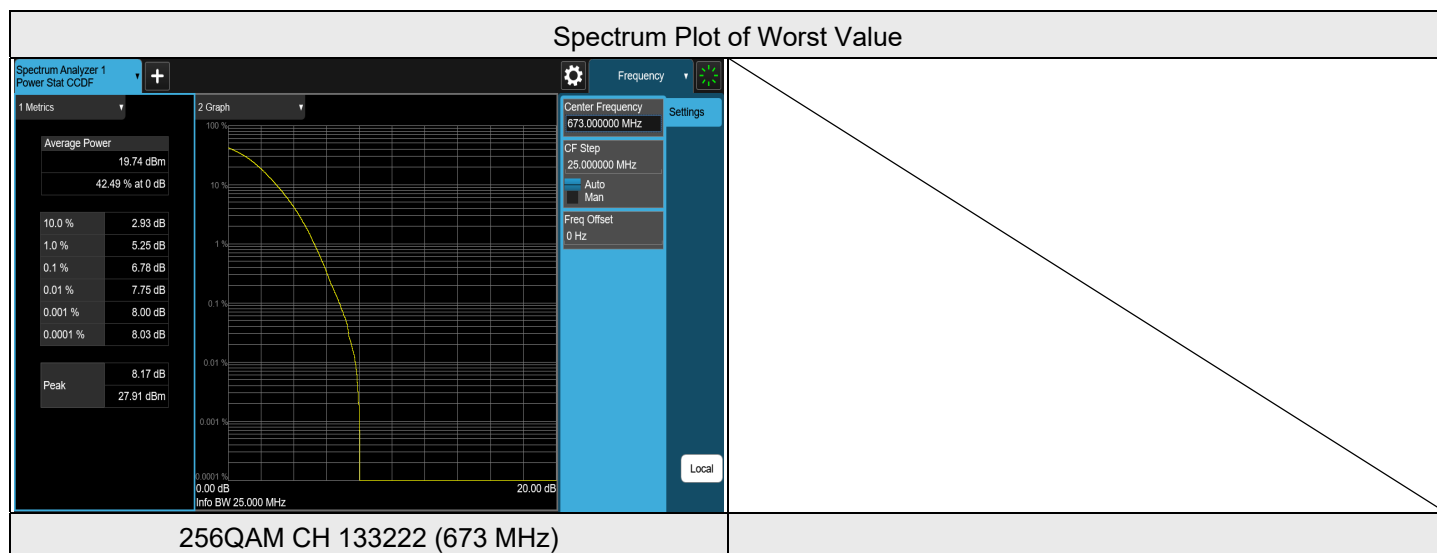
LTE Band 71, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	133197	670.5	3.41	13	Pass
QPSK	133297	680.5	3.52	13	Pass
QPSK	133397	690.5	3.54	13	Pass
16QAM	133197	670.5	4.34	13	Pass
16QAM	133297	680.5	4.50	13	Pass
16QAM	133397	690.5	4.65	13	Pass
64QAM	133197	670.5	5.37	13	Pass
64QAM	133297	680.5	5.58	13	Pass
64QAM	133397	690.5	5.44	13	Pass
256QAM	133197	670.5	6.78	13	Pass
256QAM	133297	680.5	7.00	13	Pass
256QAM	133397	690.5	6.62	13	Pass



LTE Band 71, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	133222	673	3.37	13	Pass
QPSK	133297	680.5	3.42	13	Pass
QPSK	133372	688	3.44	13	Pass
16QAM	133222	673	4.42	13	Pass
16QAM	133297	680.5	4.80	13	Pass
16QAM	133372	688	4.40	13	Pass
64QAM	133222	673	5.31	13	Pass
64QAM	133297	680.5	5.48	13	Pass
64QAM	133372	688	5.41	13	Pass
256QAM	133222	673	6.78	13	Pass
256QAM	133297	680.5	6.64	13	Pass
256QAM	133372	688	6.78	13	Pass



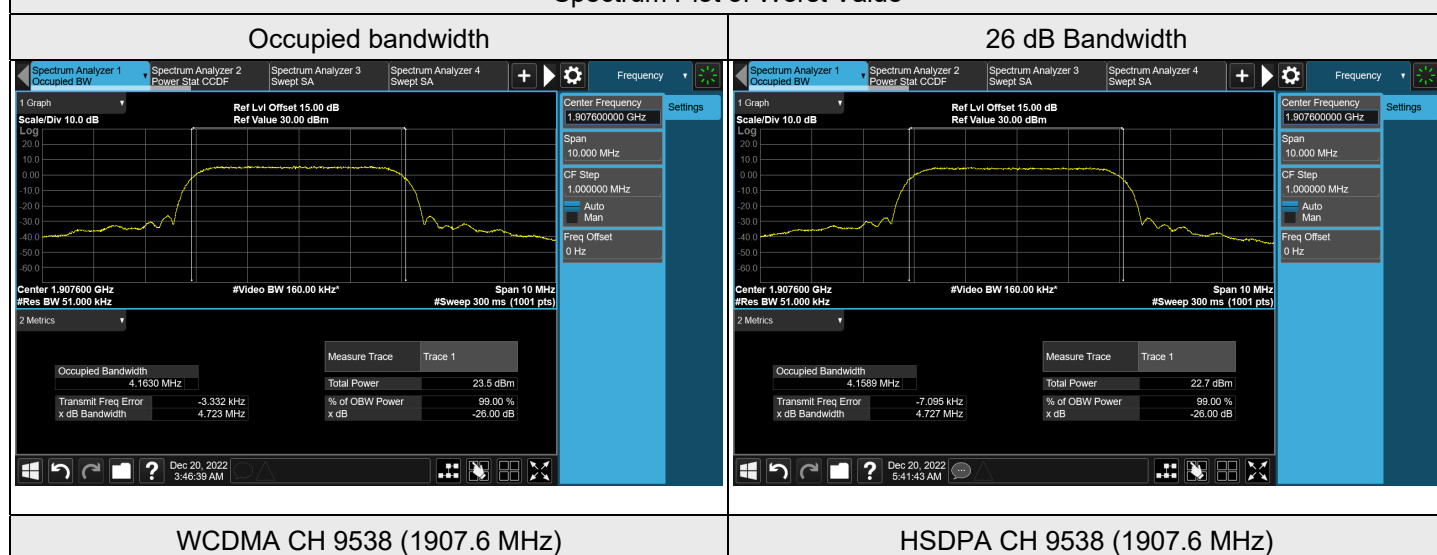
7.4 Bandwidth

Input Power:	3.87 Vdc	Environmental Conditions:	21°C, 70% RH	Tested By:	Willy Cheng
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7.4.1 WCDMA Band 2

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
WCDMA	9262	1852.4	4.1583	4.720
WCDMA	9400	1880	4.1589	4.725
WCDMA	9538	1907.6	4.1630	4.723
HSDPA	9262	1852.4	4.1588	4.725
HSDPA	9400	1880	4.1600	4.722
HSDPA	9538	1907.6	4.1589	4.727
HSUPA	9262	1852.4	4.1629	4.709
HSUPA	9400	1880	4.1525	4.712
HSUPA	9538	1907.6	4.1566	4.716

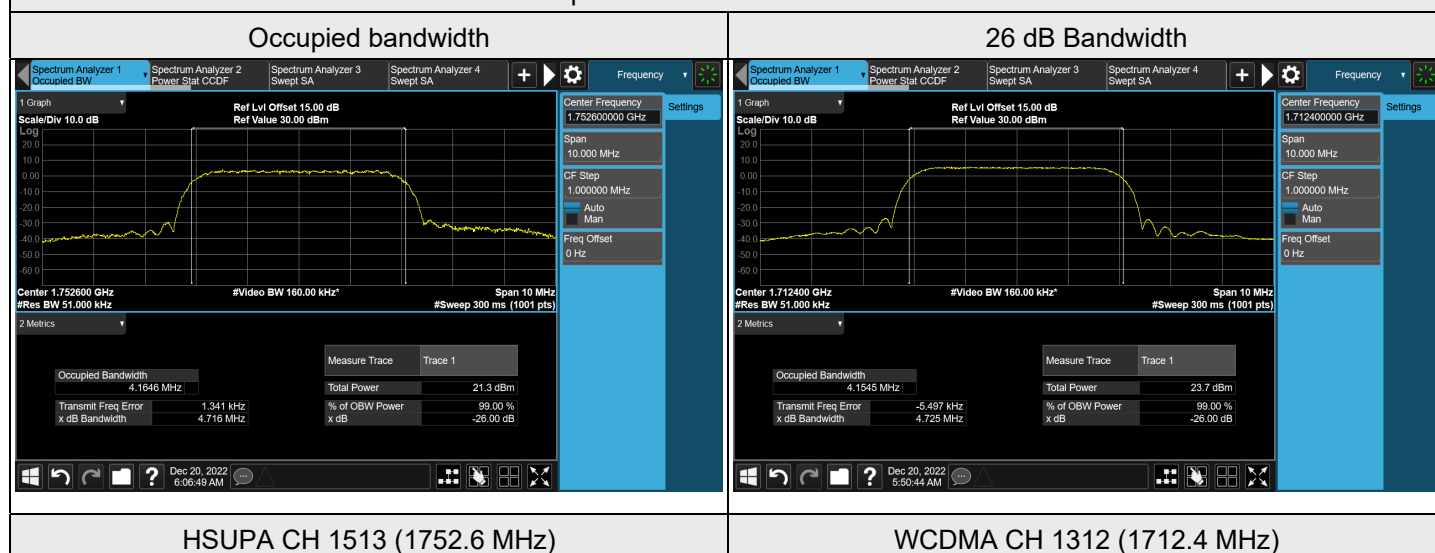
Spectrum Plot of Worst Value



7.4.2 WCDMA Band 4

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
WCDMA	1312	1712.4	4.1545	4.725
WCDMA	1413	1732.6	4.1563	4.709
WCDMA	1513	1752.6	4.1574	4.723
HSDPA	1312	1712.4	4.1516	4.723
HSDPA	1413	1732.6	4.1591	4.720
HSDPA	1513	1752.6	4.1580	4.718
HSUPA	1312	1712.4	4.1319	4.702
HSUPA	1413	1732.6	4.1522	4.723
HSUPA	1513	1752.6	4.1645	4.716

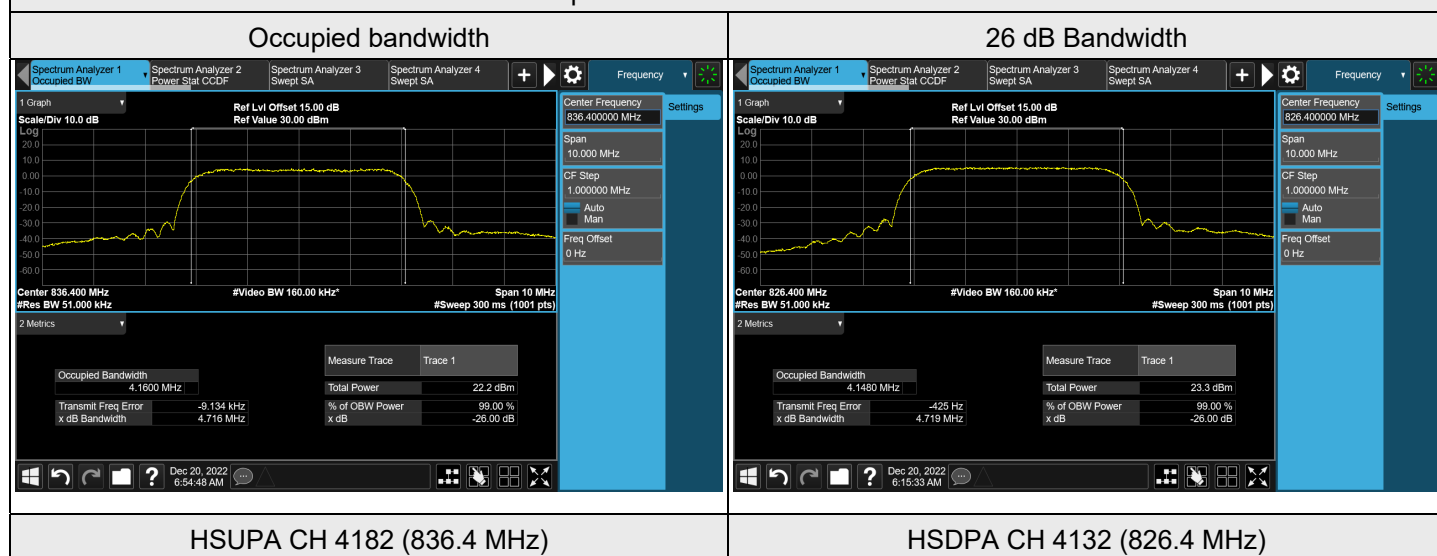
Spectrum Plot of Worst Value



7.4.3 WCDMA Band 5

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
WCDMA	4132	826.4	4.1506	4.718
WCDMA	4182	836.4	4.1465	4.708
WCDMA	4223	846.6	4.1487	4.711
HSDPA	4132	826.4	4.1480	4.719
HSDPA	4182	836.4	4.1514	4.717
HSDPA	4223	846.6	4.1501	4.719
HSUPA	4132	826.4	4.1520	4.710
HSUPA	4182	836.4	4.1600	4.716
HSUPA	4223	846.6	4.1529	4.715

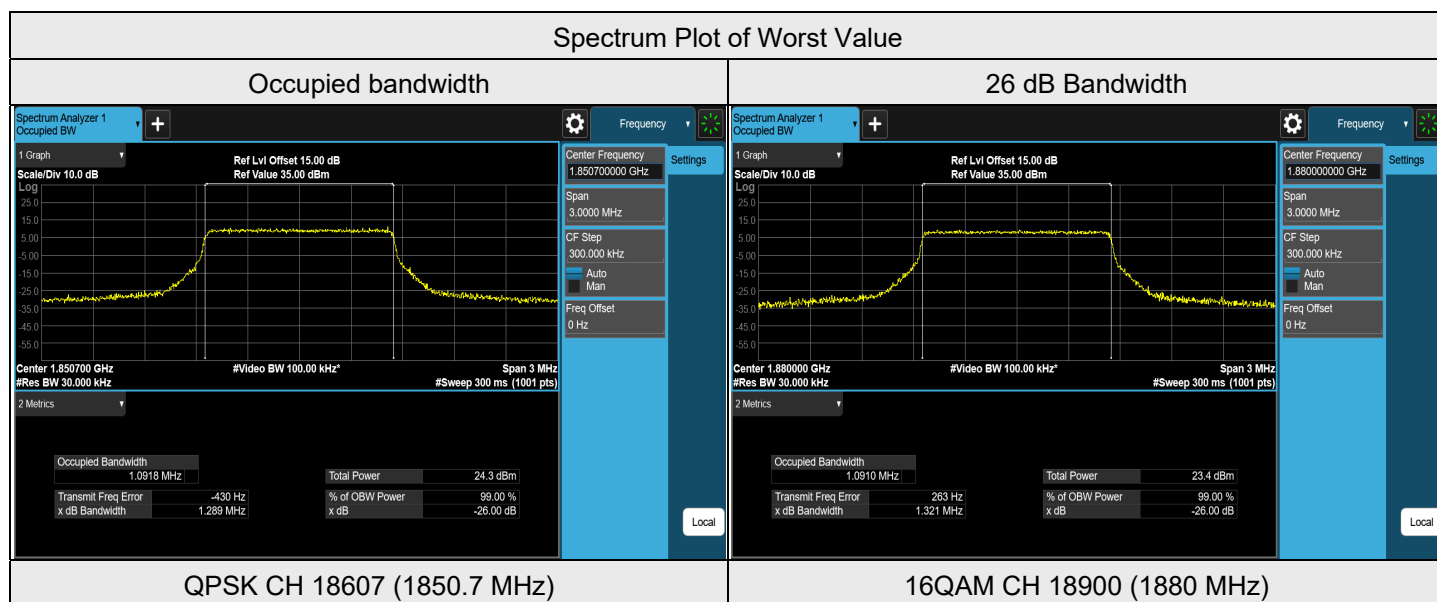
Spectrum Plot of Worst Value



7.4.4 LTE Band 2

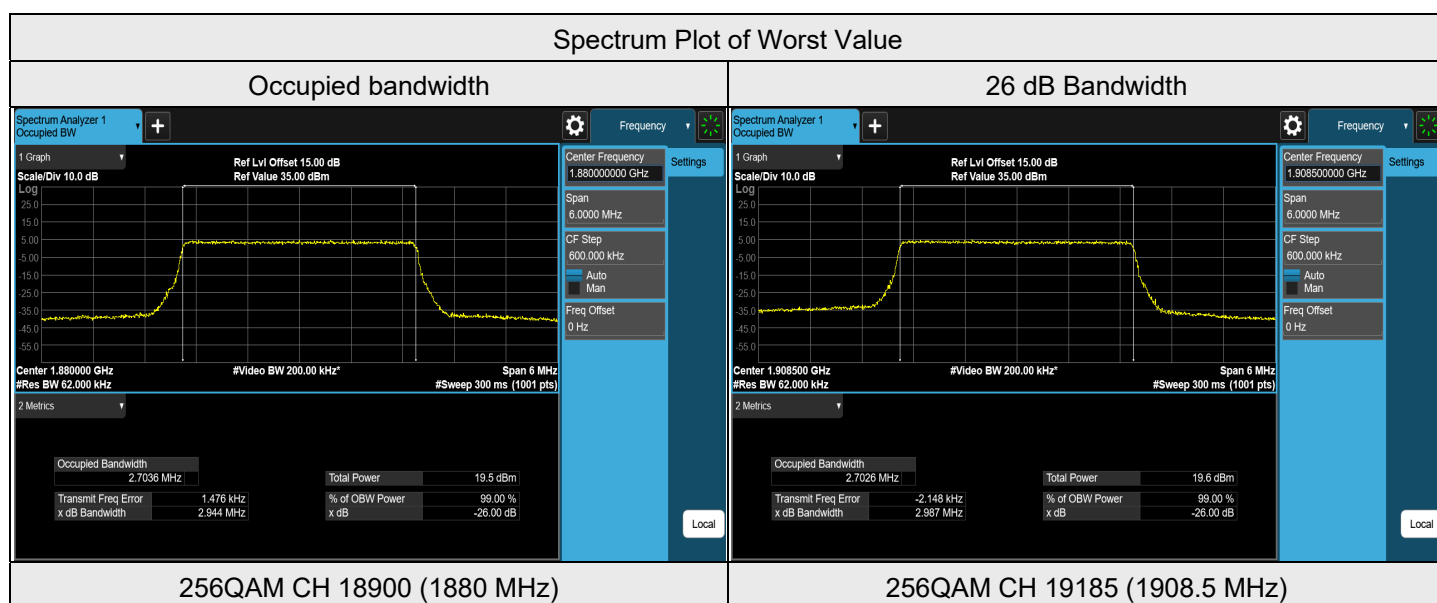
LTE Band 2, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18607	1850.7	1.0918	1.289
QPSK	18900	1880	1.0916	1.307
QPSK	19193	1909.3	1.0913	1.309
16QAM	18607	1850.7	1.0911	1.300
16QAM	18900	1880	1.0910	1.321
16QAM	19193	1909.3	1.0908	1.305
64QAM	18607	1850.7	1.0910	1.276
64QAM	18900	1880	1.0897	1.304
64QAM	19193	1909.3	1.0908	1.321
256QAM	18607	1850.7	1.0899	1.305
256QAM	18900	1880	1.0897	1.305
256QAM	19193	1909.3	1.0868	1.286



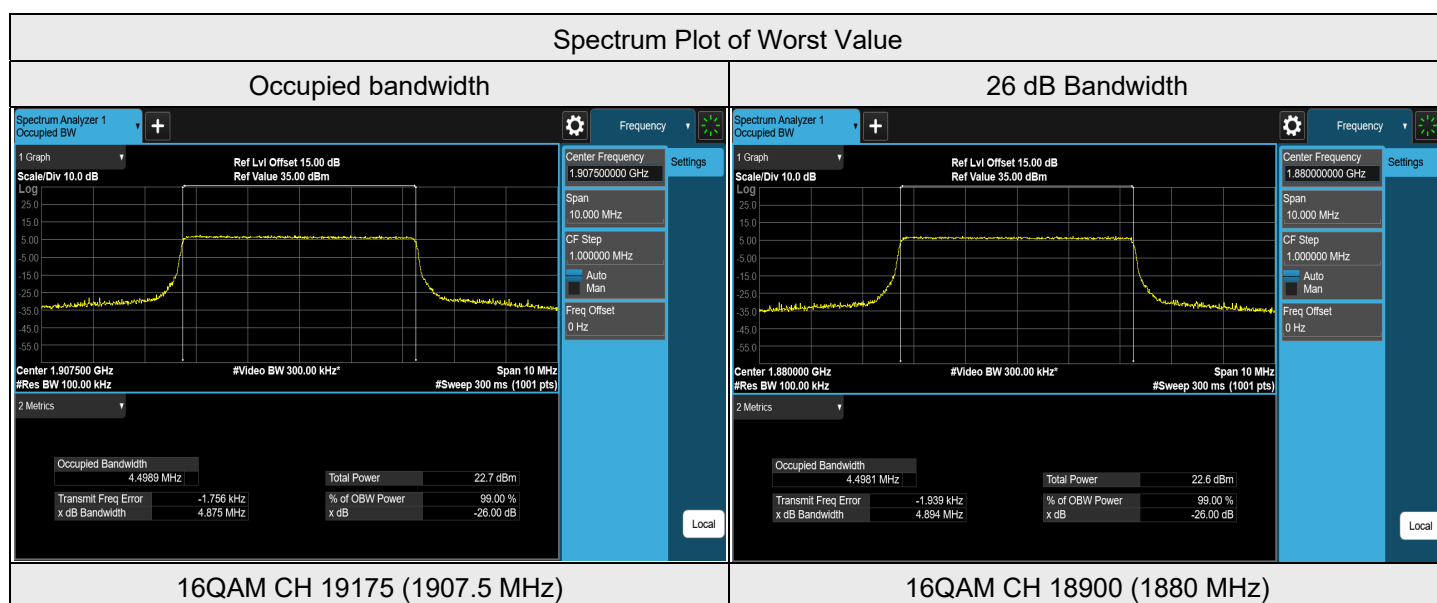
LTE Band 2, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18615	1851.5	2.6968	2.887
QPSK	18900	1880	2.7001	2.957
QPSK	19185	1908.5	2.7030	2.985
16QAM	18615	1851.5	2.7001	2.963
16QAM	18900	1880	2.7023	2.972
16QAM	19185	1908.5	2.6994	2.938
64QAM	18615	1851.5	2.7033	2.945
64QAM	18900	1880	2.7022	2.958
64QAM	19185	1908.5	2.6990	2.938
256QAM	18615	1851.5	2.7007	2.958
256QAM	18900	1880	2.7036	2.944
256QAM	19185	1908.5	2.7026	2.987



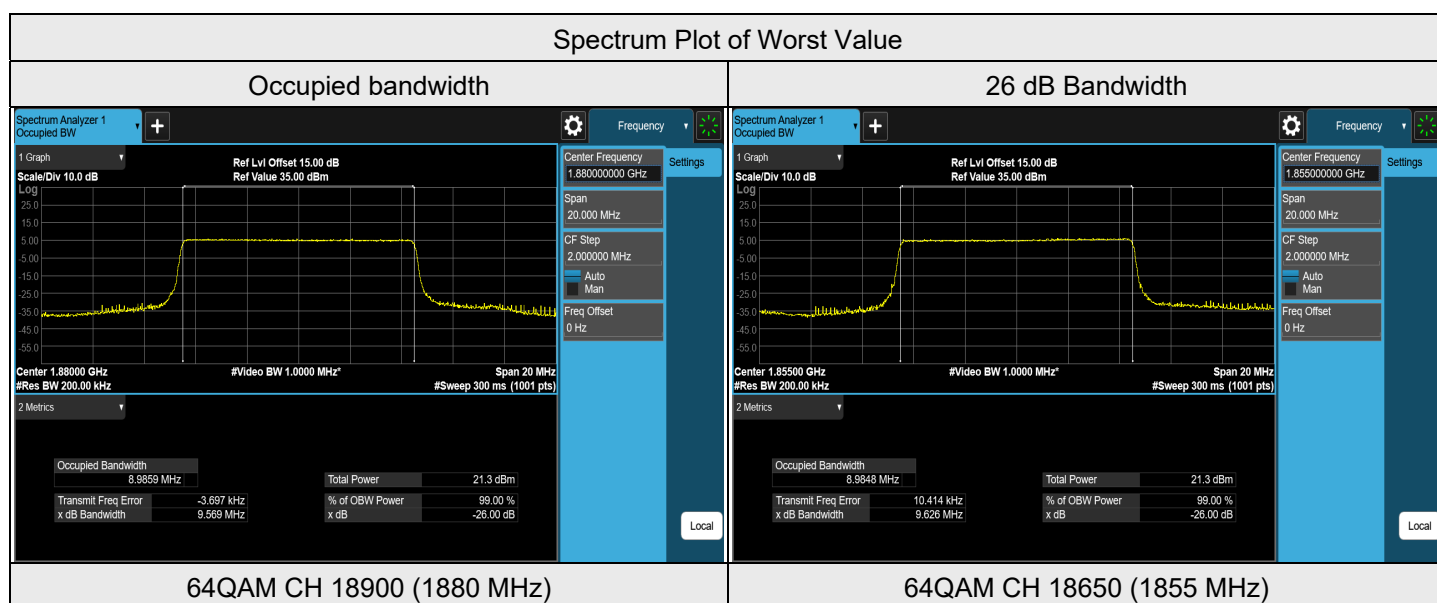
LTE Band 2, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18625	1852.5	4.4891	4.861
QPSK	18900	1880	4.4926	4.883
QPSK	19175	1907.5	4.4954	4.863
16QAM	18625	1852.5	4.4981	4.883
16QAM	18900	1880	4.4981	4.894
16QAM	19175	1907.5	4.4989	4.875
64QAM	18625	1852.5	4.4944	4.854
64QAM	18900	1880	4.4940	4.857
64QAM	19175	1907.5	4.4960	4.871
256QAM	18625	1852.5	4.4957	4.889
256QAM	18900	1880	4.4957	4.872
256QAM	19175	1907.5	4.4954	4.879



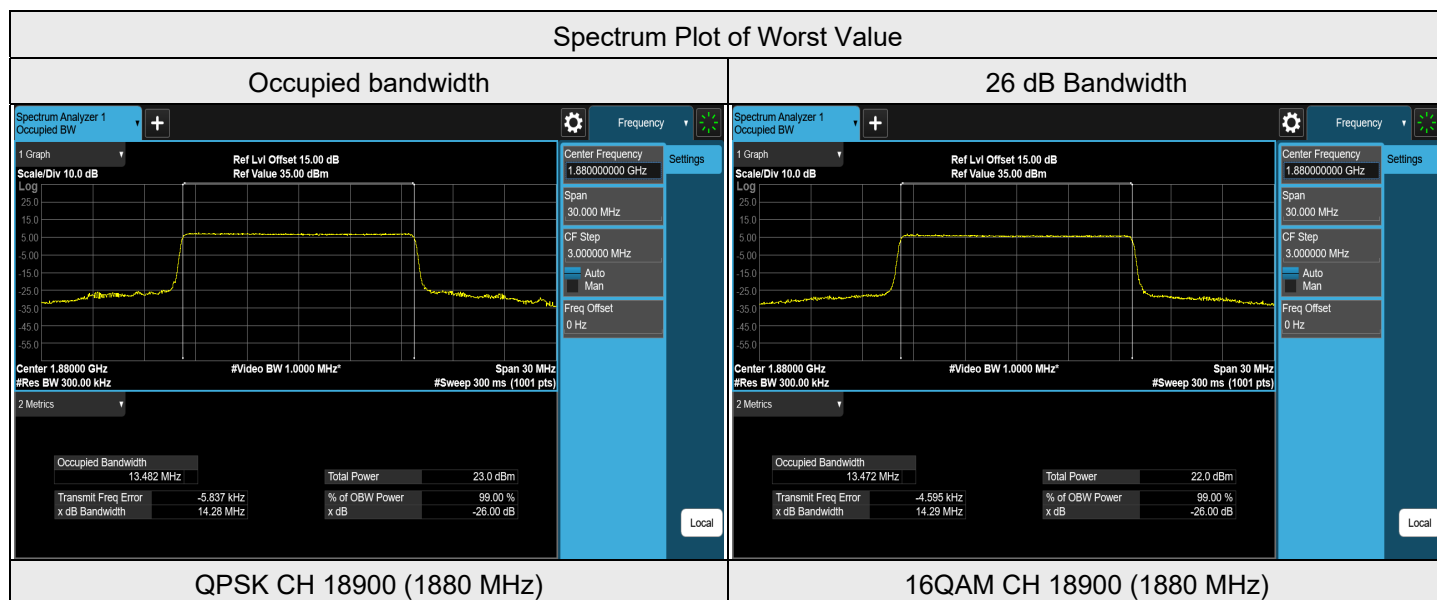
LTE Band 2, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18650	1855	8.9740	9.545
QPSK	18900	1880	8.9840	9.577
QPSK	19150	1905	8.9723	9.544
16QAM	18650	1855	8.9840	9.534
16QAM	18900	1880	8.9850	9.574
16QAM	19150	1905	8.9817	9.542
64QAM	18650	1855	8.9848	9.626
64QAM	18900	1880	8.9859	9.569
64QAM	19150	1905	8.9792	9.543
256QAM	18650	1855	8.9830	9.533
256QAM	18900	1880	8.9836	9.520
256QAM	19150	1905	8.9699	9.534



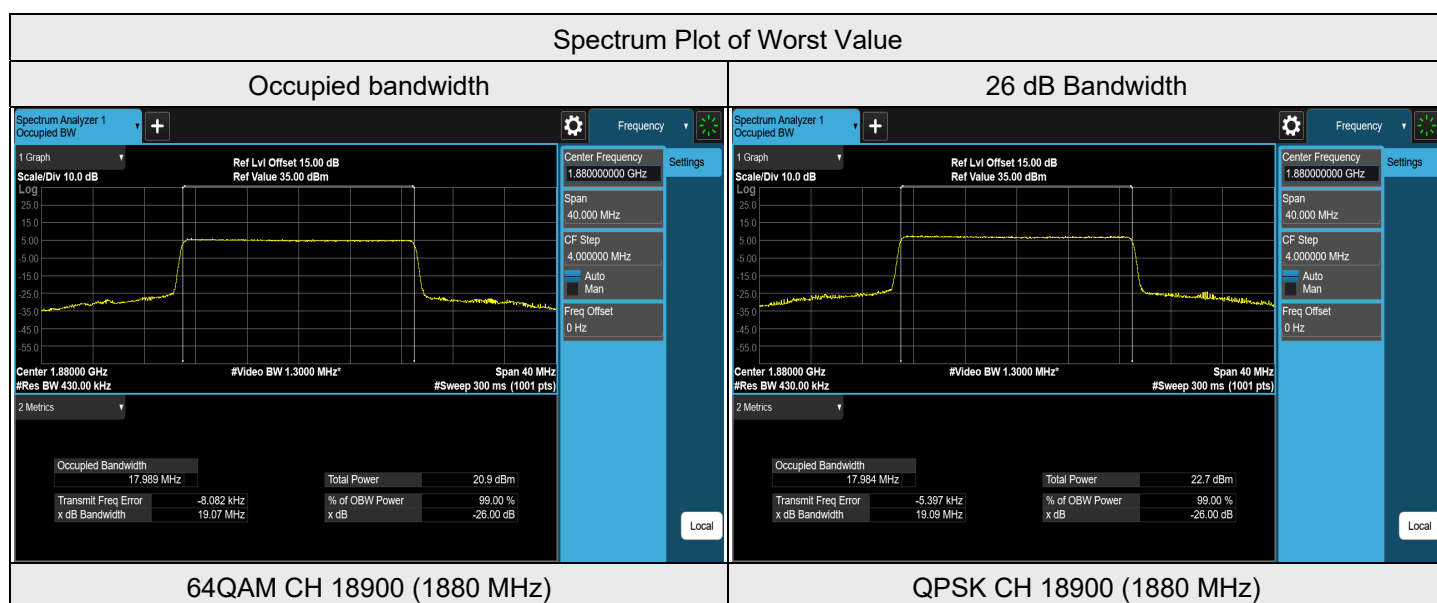
LTE Band 2, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18675	1857.5	13.4601	14.251
QPSK	18900	1880	13.4819	14.280
QPSK	19125	1902.5	13.4557	14.270
16QAM	18675	1857.5	13.4646	14.254
16QAM	18900	1880	13.4715	14.293
16QAM	19125	1902.5	13.4453	14.287
64QAM	18675	1857.5	13.4647	14.269
64QAM	18900	1880	13.4809	14.258
64QAM	19125	1902.5	13.4487	14.237
256QAM	18675	1857.5	13.4623	14.239
256QAM	18900	1880	13.4655	14.249
256QAM	19125	1902.5	13.4454	14.245



LTE Band 2, Channel Bandwidth: 20 MHz

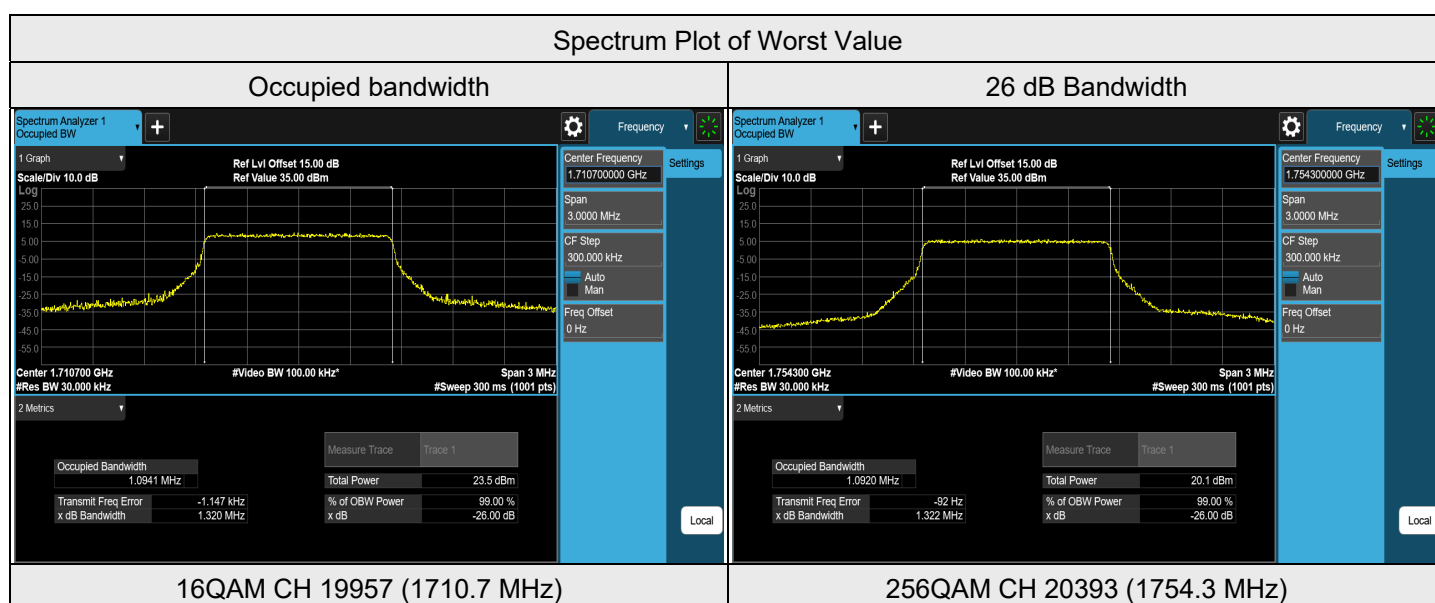
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18700	1860	17.9554	19.053
QPSK	18900	1880	17.9842	19.091
QPSK	19100	1900	17.9454	19.076
16QAM	18700	1860	17.9574	19.055
16QAM	18900	1880	17.9856	19.089
16QAM	19100	1900	17.9417	19.082
64QAM	18700	1860	17.9590	19.048
64QAM	18900	1880	17.9891	19.068
64QAM	19100	1900	17.9344	19.074
256QAM	18700	1860	17.9486	19.030
256QAM	18900	1880	17.9794	19.056
256QAM	19100	1900	17.9183	19.068



7.4.5 LTE Band 4

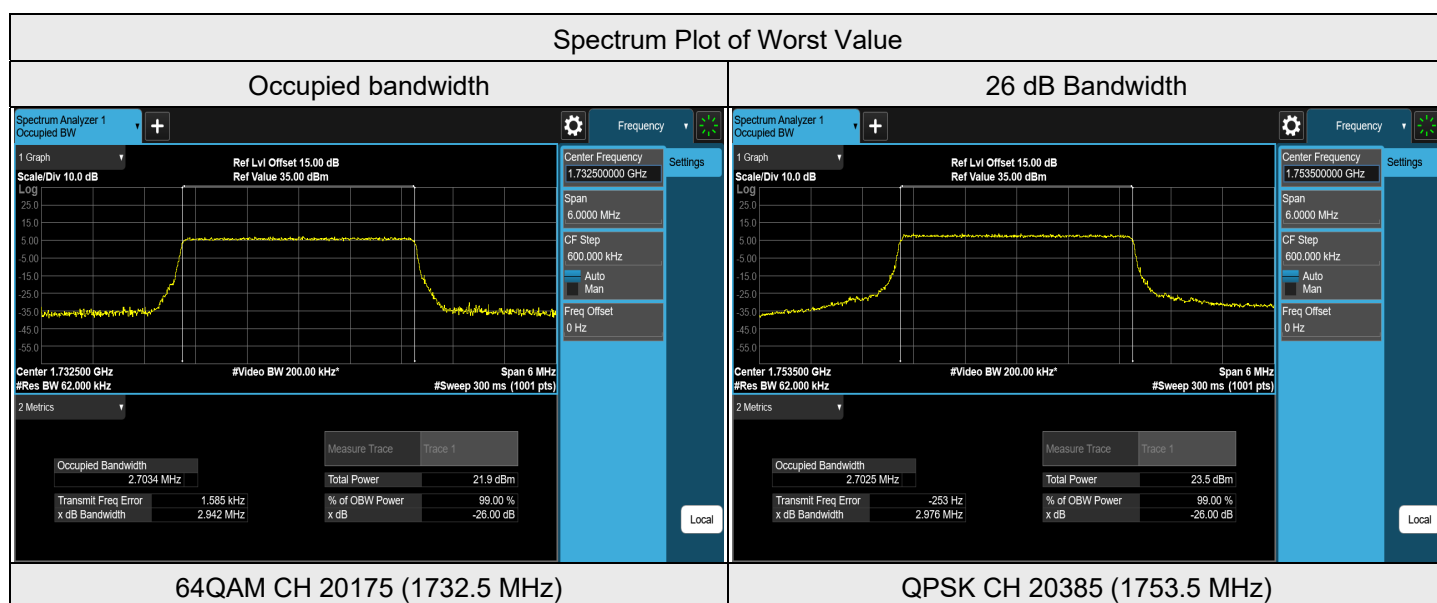
LTE Band 4, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	19957	1710.7	1.0908	1.297
QPSK	20175	1732.5	1.0909	1.310
QPSK	20393	1754.3	1.0900	1.302
16QAM	19957	1710.7	1.0941	1.320
16QAM	20175	1732.5	1.0915	1.303
16QAM	20393	1754.3	1.0916	1.320
64QAM	19957	1710.7	1.0906	1.305
64QAM	20175	1732.5	1.0920	1.300
64QAM	20393	1754.3	1.0899	1.304
256QAM	19957	1710.7	1.0915	1.310
256QAM	20175	1732.5	1.0884	1.306
256QAM	20393	1754.3	1.0920	1.322



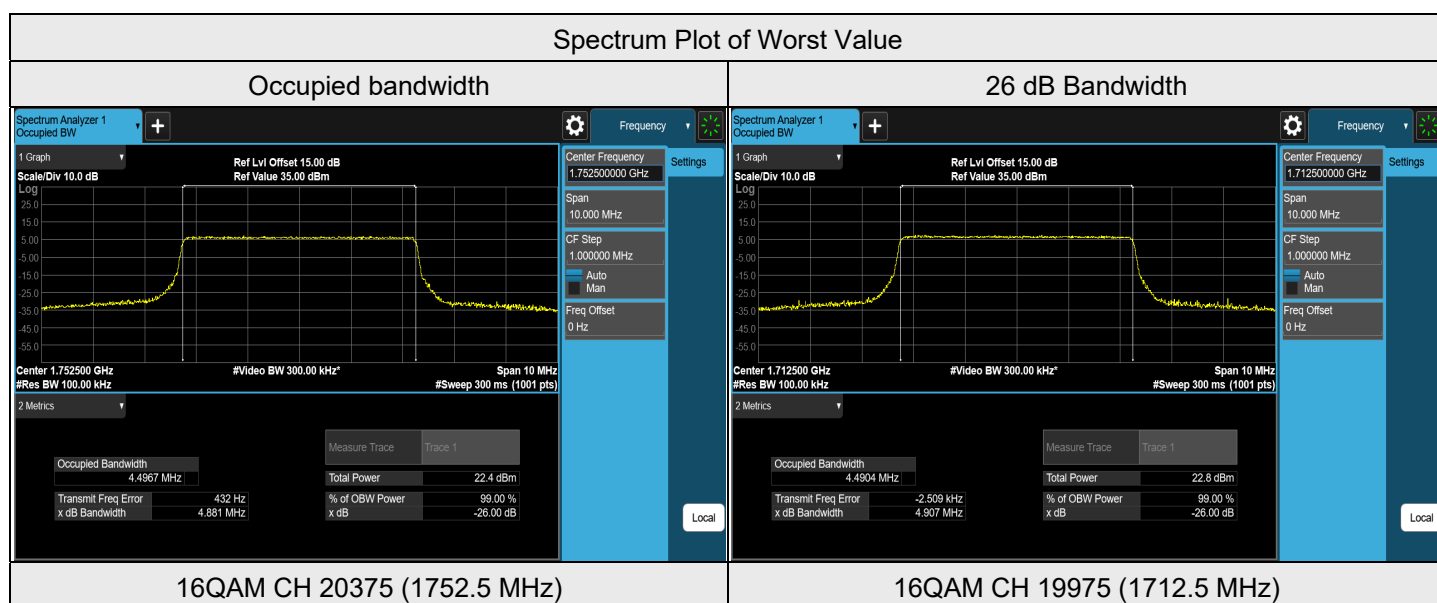
LTE Band 4, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	19965	1711.5	2.6995	2.954
QPSK	20175	1732.5	2.7017	2.968
QPSK	20385	1753.5	2.7025	2.976
16QAM	19965	1711.5	2.7002	2.951
16QAM	20175	1732.5	2.7021	2.968
16QAM	20385	1753.5	2.7023	2.968
64QAM	19965	1711.5	2.7024	2.943
64QAM	20175	1732.5	2.7034	2.942
64QAM	20385	1753.5	2.7017	2.952
256QAM	19965	1711.5	2.7018	2.958
256QAM	20175	1732.5	2.7020	2.934
256QAM	20385	1753.5	2.6987	2.944



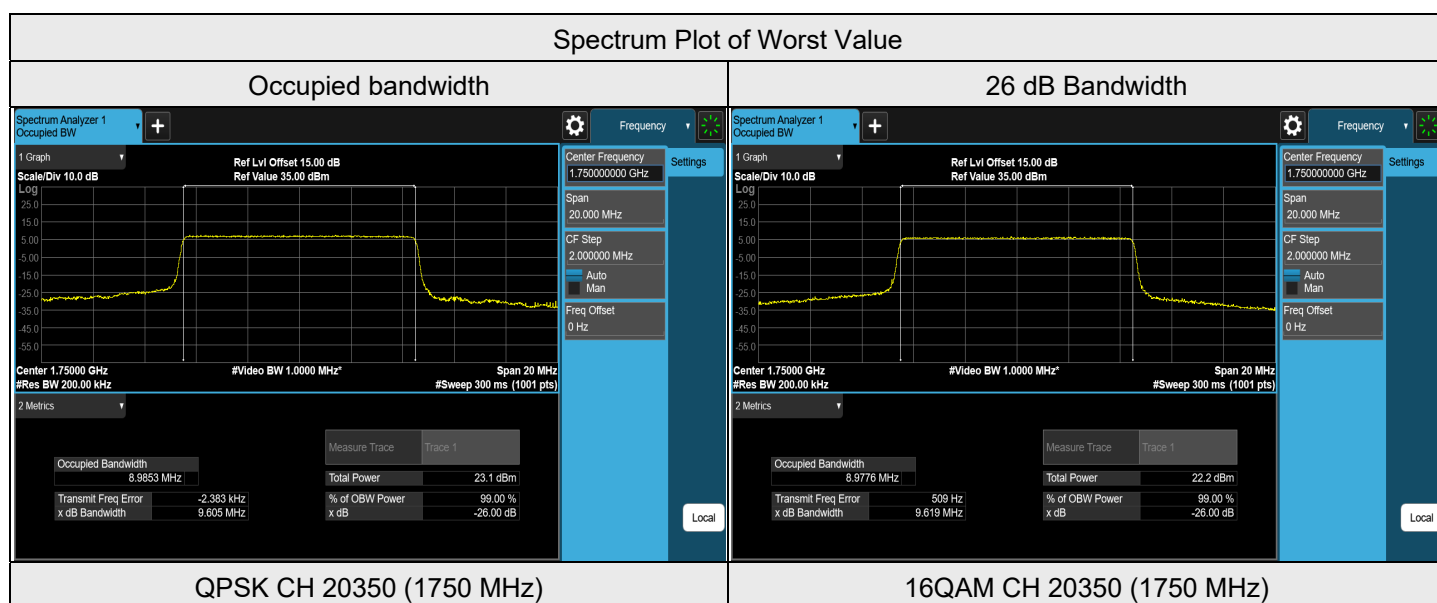
LTE Band 4, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	19975	1712.5	4.4931	4.900
QPSK	20175	1732.5	4.4952	4.875
QPSK	20375	1752.5	4.4906	4.875
16QAM	19975	1712.5	4.4904	4.907
16QAM	20175	1732.5	4.4929	4.860
16QAM	20375	1752.5	4.4967	4.881
64QAM	19975	1712.5	4.4951	4.877
64QAM	20175	1732.5	4.4939	4.848
64QAM	20375	1752.5	4.4920	4.905
256QAM	19975	1712.5	4.4945	4.862
256QAM	20175	1732.5	4.4937	4.867
256QAM	20375	1752.5	4.4946	4.889



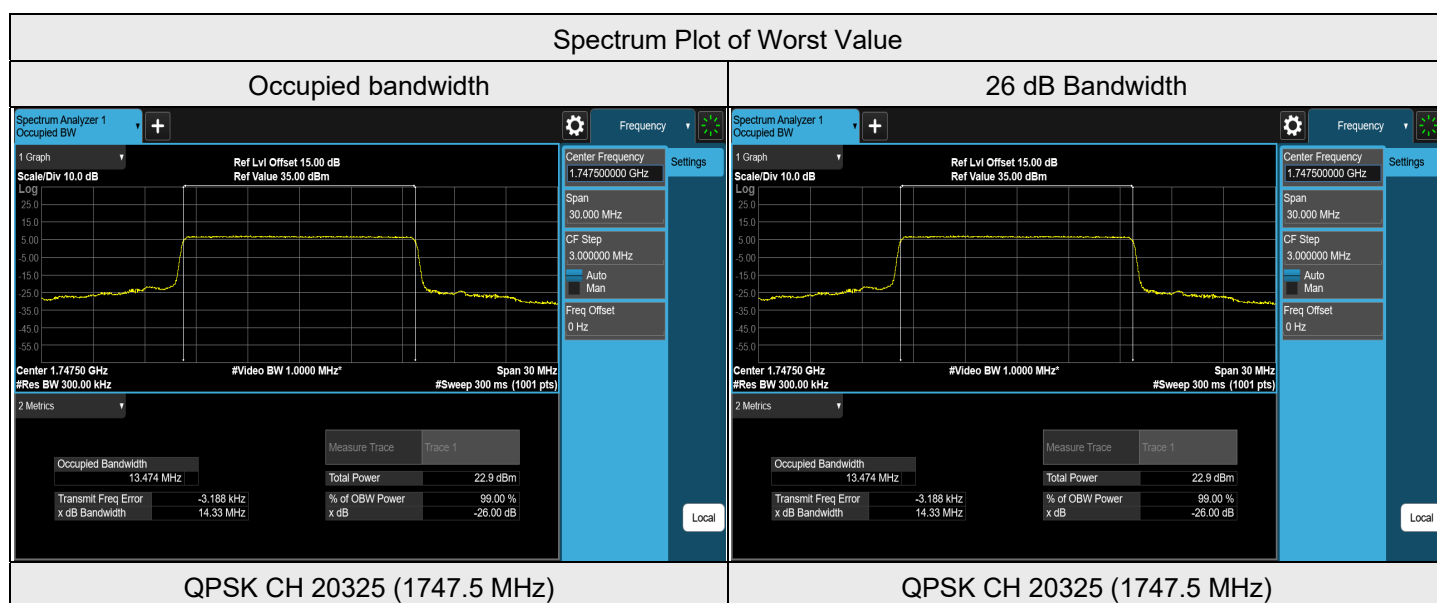
LTE Band 4, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20000	1715	8.9794	9.591
QPSK	20175	1732.5	8.9798	9.565
QPSK	20350	1750	8.9853	9.605
16QAM	20000	1715	8.9815	9.581
16QAM	20175	1732.5	8.9830	9.549
16QAM	20350	1750	8.9776	9.619
64QAM	20000	1715	8.9785	9.564
64QAM	20175	1732.5	8.9807	9.551
64QAM	20350	1750	8.9801	9.550
256QAM	20000	1715	8.9808	9.556
256QAM	20175	1732.5	8.9793	9.524
256QAM	20350	1750	8.9814	9.557



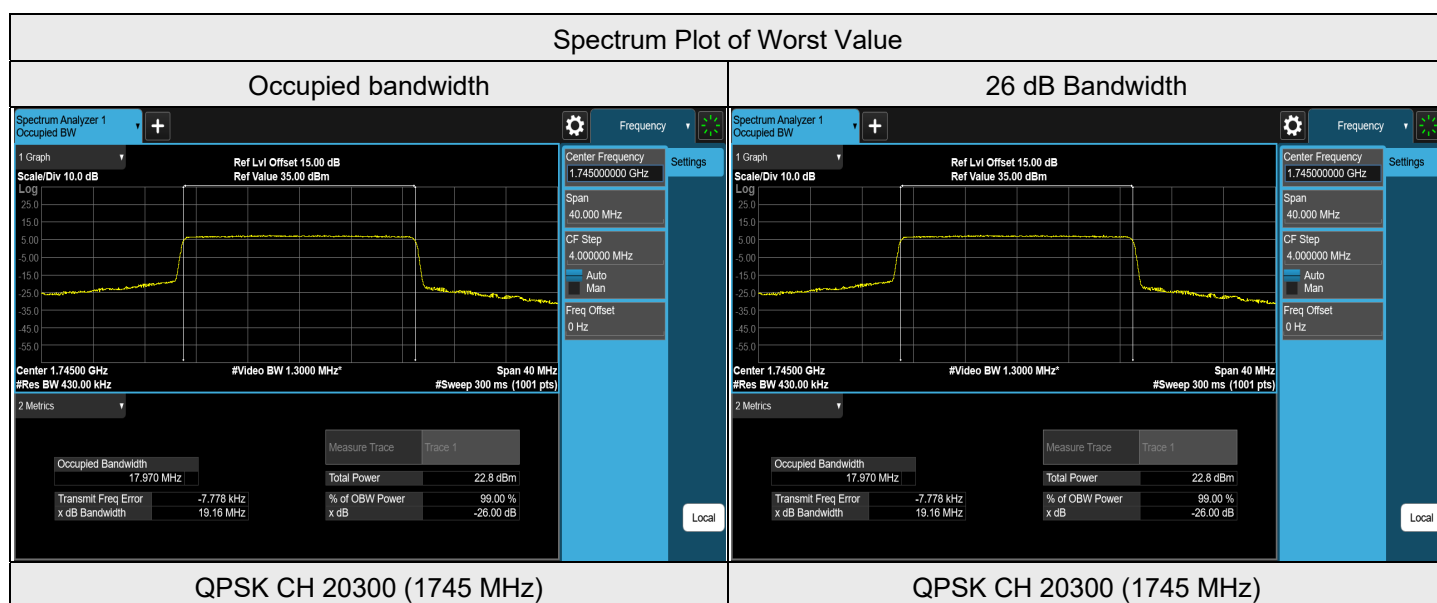
LTE Band 4, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20025	1717.5	13.4683	14.274
QPSK	20175	1732.5	13.4565	14.264
QPSK	20325	1747.5	13.4742	14.327
16QAM	20025	1717.5	13.4644	14.273
16QAM	20175	1732.5	13.4664	14.267
16QAM	20325	1747.5	13.4565	14.287
64QAM	20025	1717.5	13.4582	14.268
64QAM	20175	1732.5	13.4643	14.273
64QAM	20325	1747.5	13.4528	14.261
256QAM	20025	1717.5	13.4599	14.245
256QAM	20175	1732.5	13.4601	14.285
256QAM	20325	1747.5	13.4553	14.279



LTE Band 4, Channel Bandwidth: 20 MHz

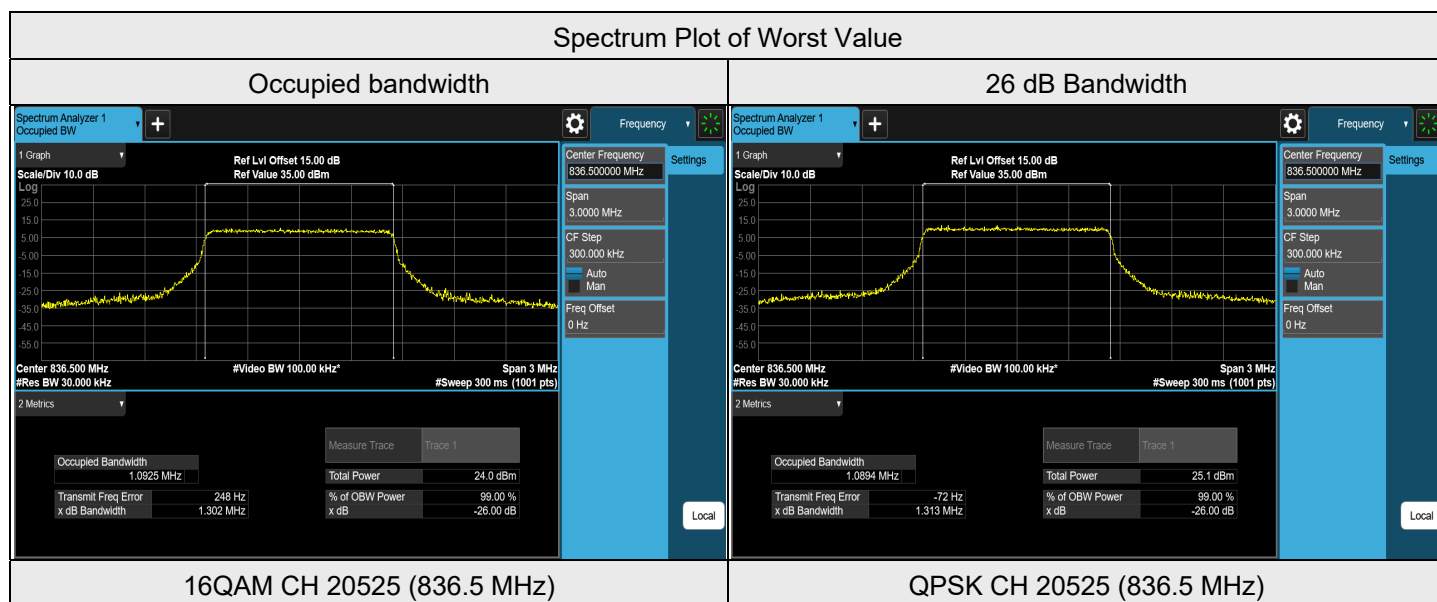
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20050	1720	17.9695	19.054
QPSK	20175	1732.5	17.9675	19.063
QPSK	20300	1745	17.9705	19.158
16QAM	20050	1720	17.9679	19.047
16QAM	20175	1732.5	17.9592	19.049
16QAM	20300	1745	17.9637	19.099
64QAM	20050	1720	17.9676	19.037
64QAM	20175	1732.5	17.9679	19.045
64QAM	20300	1745	17.9537	19.085
256QAM	20050	1720	17.9684	19.063
256QAM	20175	1732.5	17.9668	19.042
256QAM	20300	1745	17.9431	19.082



7.4.6 LTE Band 5

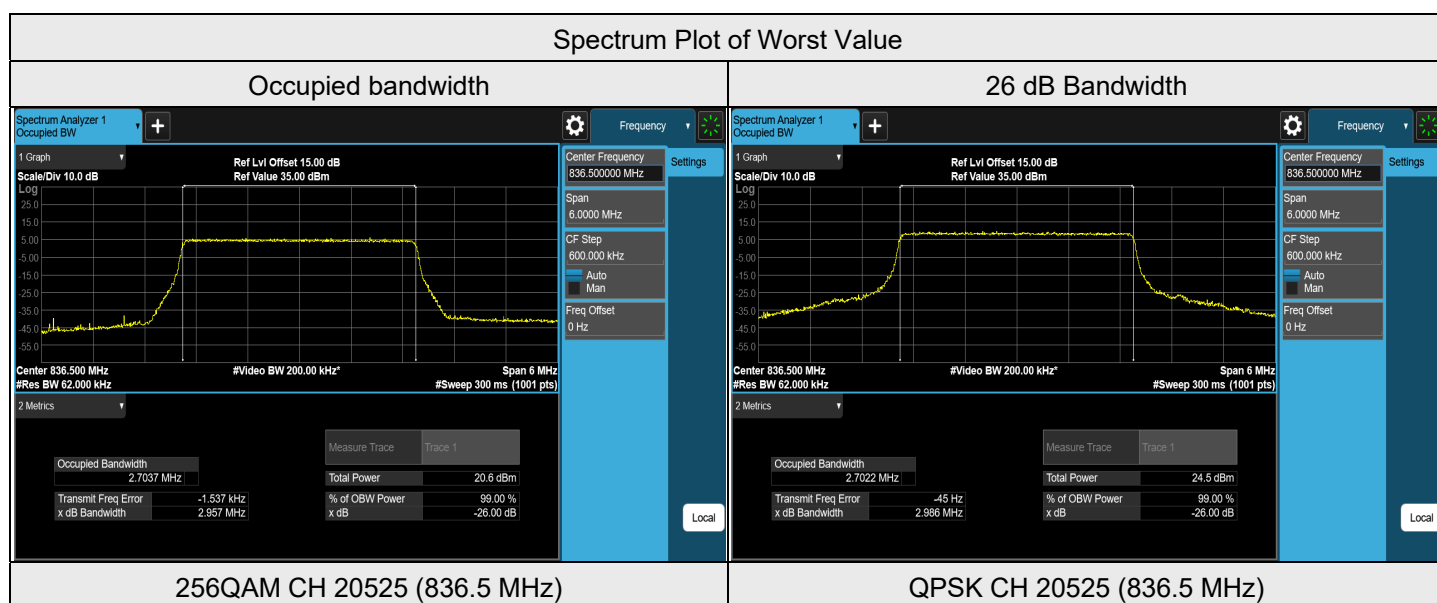
LTE Band 5, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20407	824.7	1.0924	1.303
QPSK	20525	836.5	1.0894	1.313
QPSK	20643	848.3	1.0896	1.303
16QAM	20407	824.7	1.0902	1.300
16QAM	20525	836.5	1.0925	1.302
16QAM	20643	848.3	1.0910	1.303
64QAM	20407	824.7	1.0905	1.284
64QAM	20525	836.5	1.0903	1.312
64QAM	20643	848.3	1.0898	1.295
256QAM	20407	824.7	1.0910	1.291
256QAM	20525	836.5	1.0894	1.296
256QAM	20643	848.3	1.0895	1.305



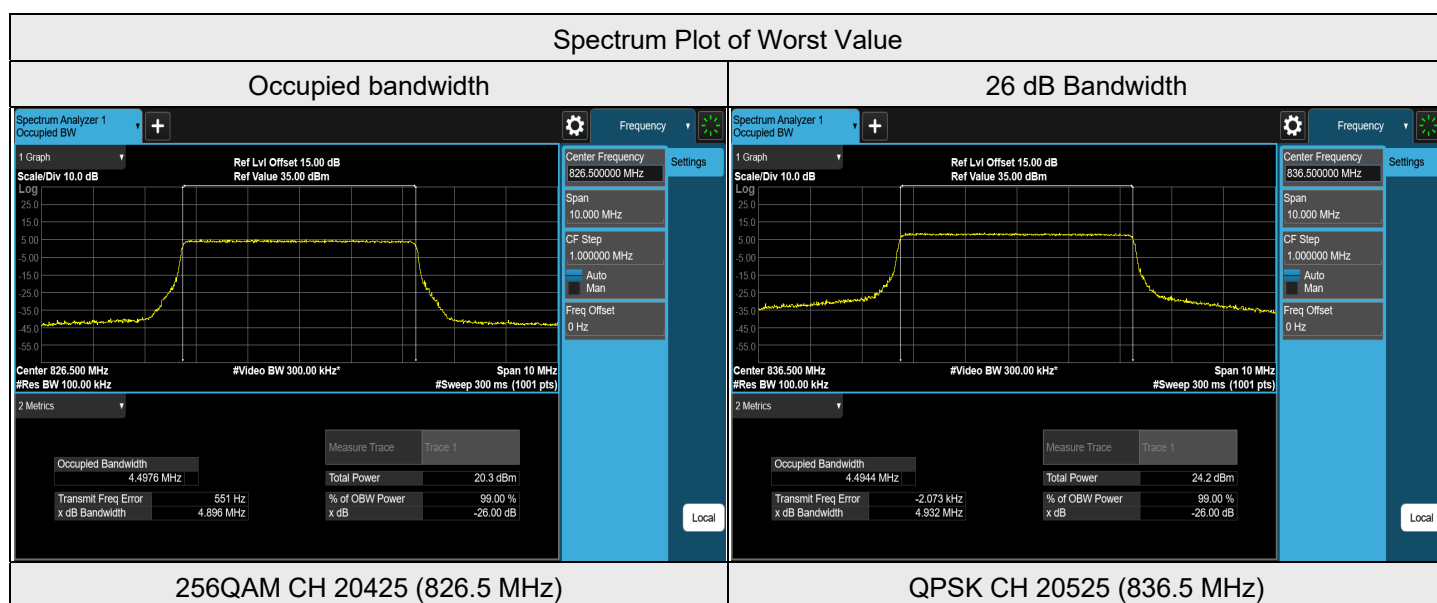
LTE Band 5, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20415	825.5	2.7016	2.954
QPSK	20525	836.5	2.7022	2.986
QPSK	20635	847.5	2.7013	2.957
16QAM	20415	825.5	2.7015	2.952
16QAM	20525	836.5	2.7010	2.985
16QAM	20635	847.5	2.7031	2.969
64QAM	20415	825.5	2.7006	2.936
64QAM	20525	836.5	2.7022	2.959
64QAM	20635	847.5	2.7016	2.969
256QAM	20415	825.5	2.7020	2.942
256QAM	20525	836.5	2.7037	2.957
256QAM	20635	847.5	2.6991	2.955



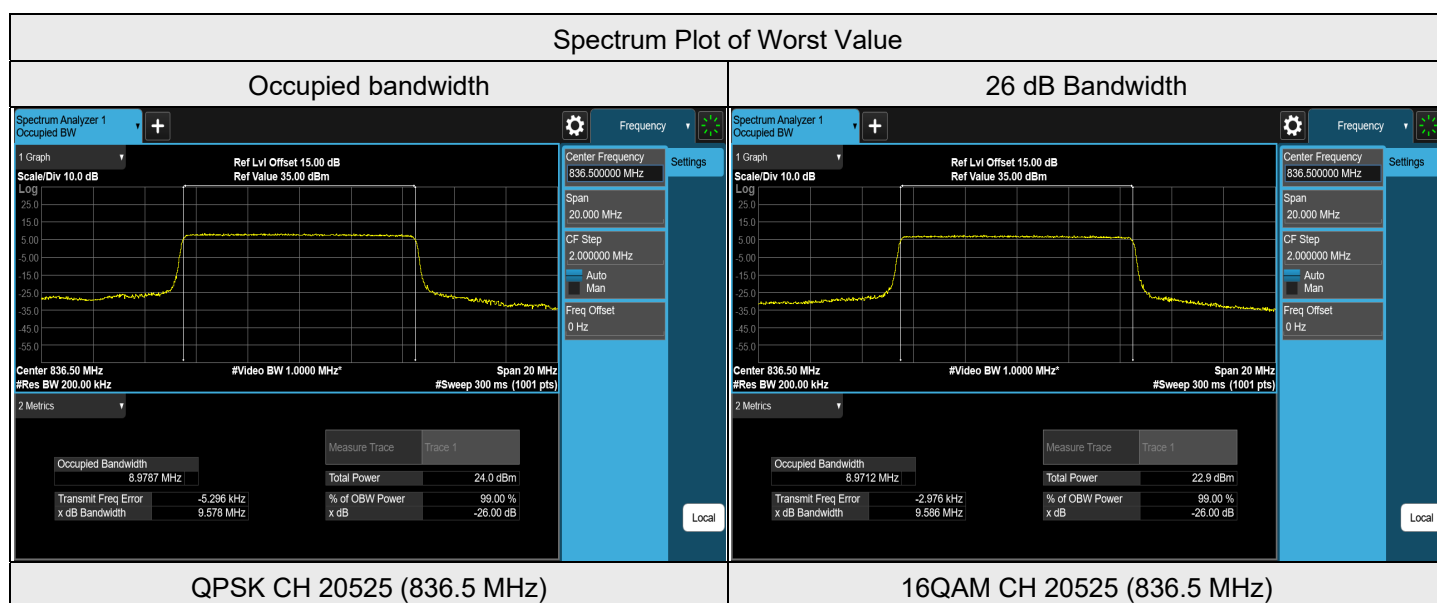
LTE Band 5, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20425	826.5	4.4943	4.904
QPSK	20525	836.5	4.4944	4.932
QPSK	20625	846.5	4.4924	4.863
16QAM	20425	826.5	4.4954	4.846
16QAM	20525	836.5	4.4917	4.888
16QAM	20625	846.5	4.4956	4.889
64QAM	20425	826.5	4.4939	4.866
64QAM	20525	836.5	4.4954	4.888
64QAM	20625	846.5	4.4959	4.868
256QAM	20425	826.5	4.4976	4.896
256QAM	20525	836.5	4.4935	4.896
256QAM	20625	846.5	4.4948	4.870



LTE Band 5, Channel Bandwidth: 10 MHz

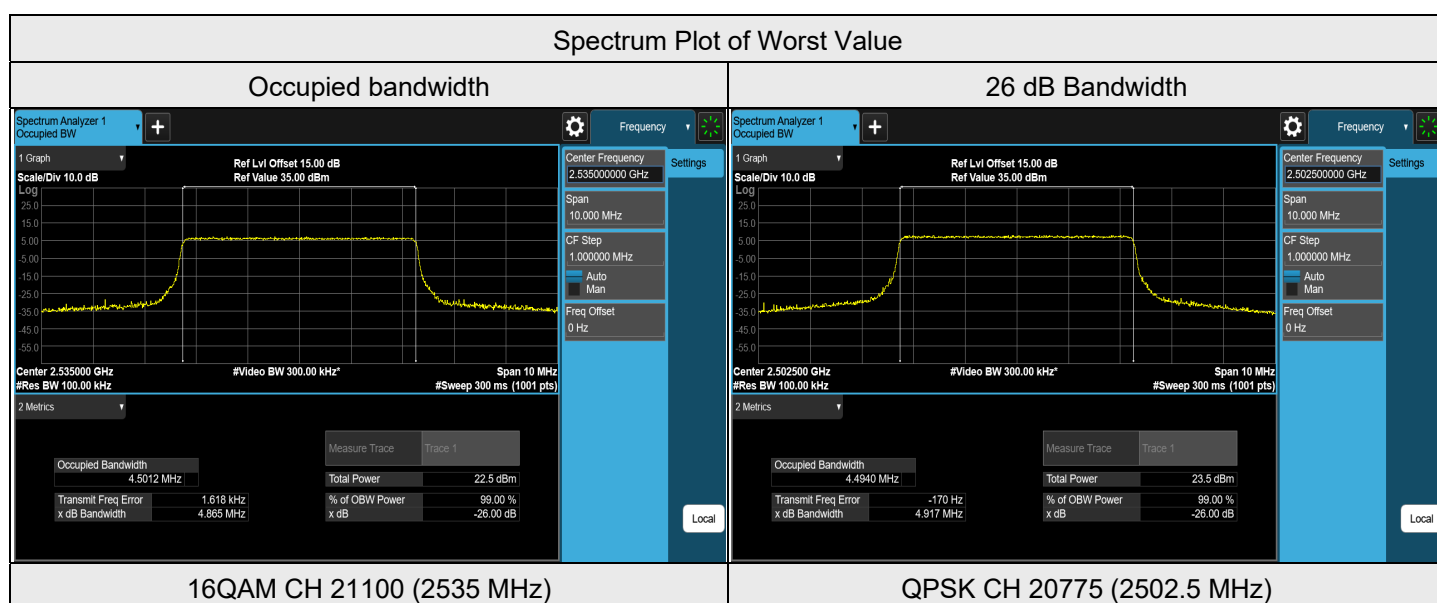
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20450	829	8.9777	9.541
QPSK	20525	836.5	8.9787	9.578
QPSK	20600	844	8.9651	9.558
16QAM	20450	829	8.9714	9.553
16QAM	20525	836.5	8.9712	9.586
16QAM	20600	844	8.9599	9.542
64QAM	20450	829	8.9692	9.540
64QAM	20525	836.5	8.9678	9.522
64QAM	20600	844	8.9652	9.555
256QAM	20450	829	8.9712	9.579
256QAM	20525	836.5	8.9719	9.586
256QAM	20600	844	8.9656	9.531



7.4.7 LTE Band 7

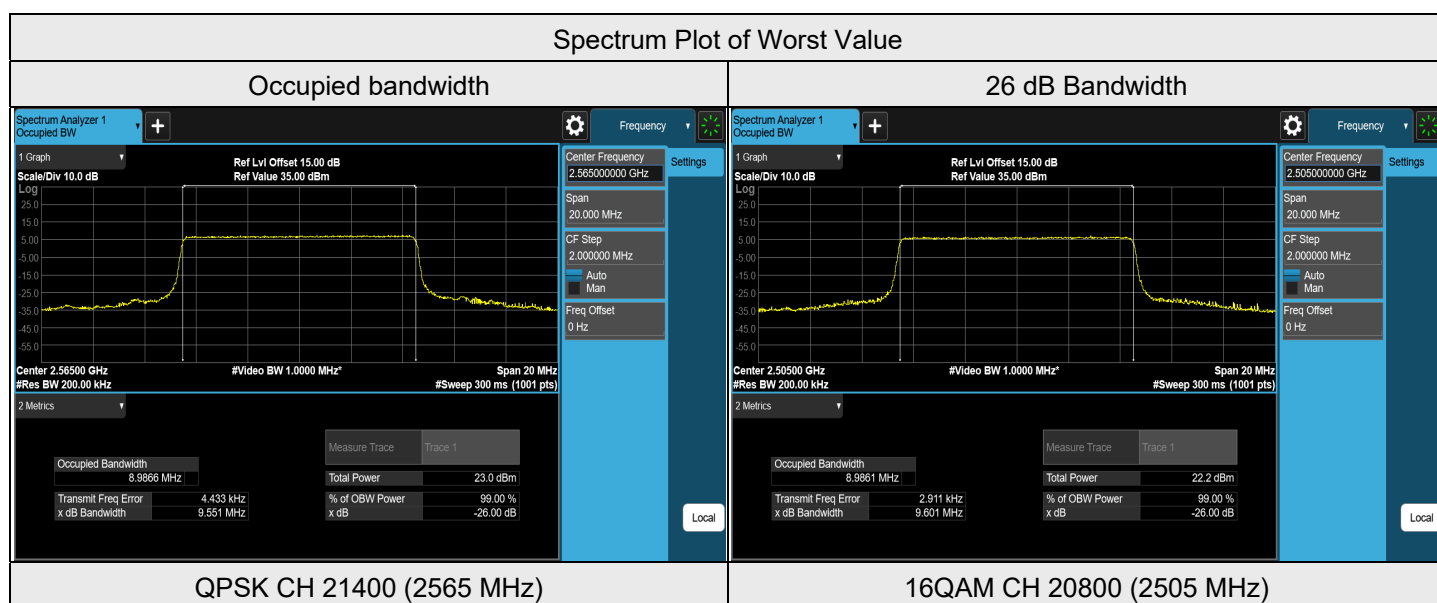
LTE Band 7, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20775	2502.5	4.4940	4.917
QPSK	21100	2535	4.4939	4.873
QPSK	21425	2567.5	4.4967	4.899
16QAM	20775	2502.5	4.4988	4.907
16QAM	21100	2535	4.5012	4.865
16QAM	21425	2567.5	4.4965	4.858
64QAM	20775	2502.5	4.4929	4.871
64QAM	21100	2535	4.4987	4.858
64QAM	21425	2567.5	4.4942	4.896
256QAM	20775	2502.5	4.4947	4.880
256QAM	21100	2535	4.4935	4.859
256QAM	21425	2567.5	4.4971	4.866



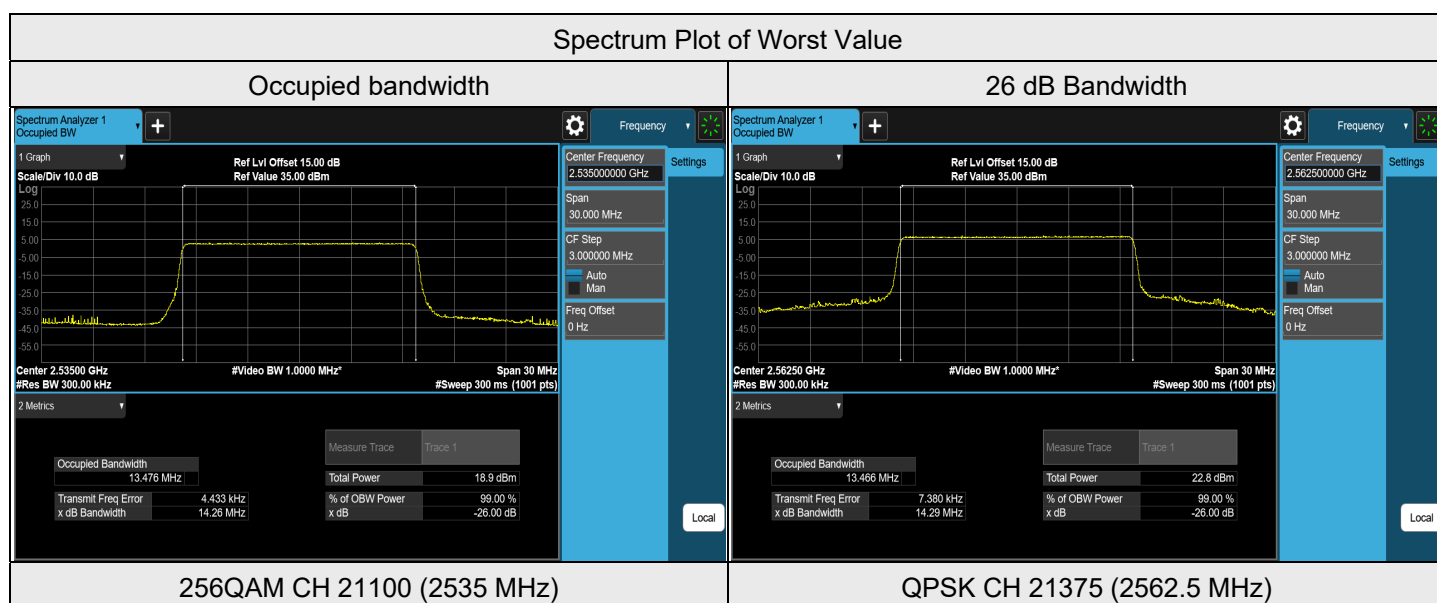
LTE Band 7, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20800	2505	8.9793	9.566
QPSK	21100	2535	8.9831	9.560
QPSK	21400	2565	8.9866	9.551
16QAM	20800	2505	8.9861	9.601
16QAM	21100	2535	8.9758	9.558
16QAM	21400	2565	8.9823	9.560
64QAM	20800	2505	8.9801	9.555
64QAM	21100	2535	8.9771	9.578
64QAM	21400	2565	8.9828	9.575
256QAM	20800	2505	8.9792	9.552
256QAM	21100	2535	8.9807	9.553
256QAM	21400	2565	8.9766	9.541



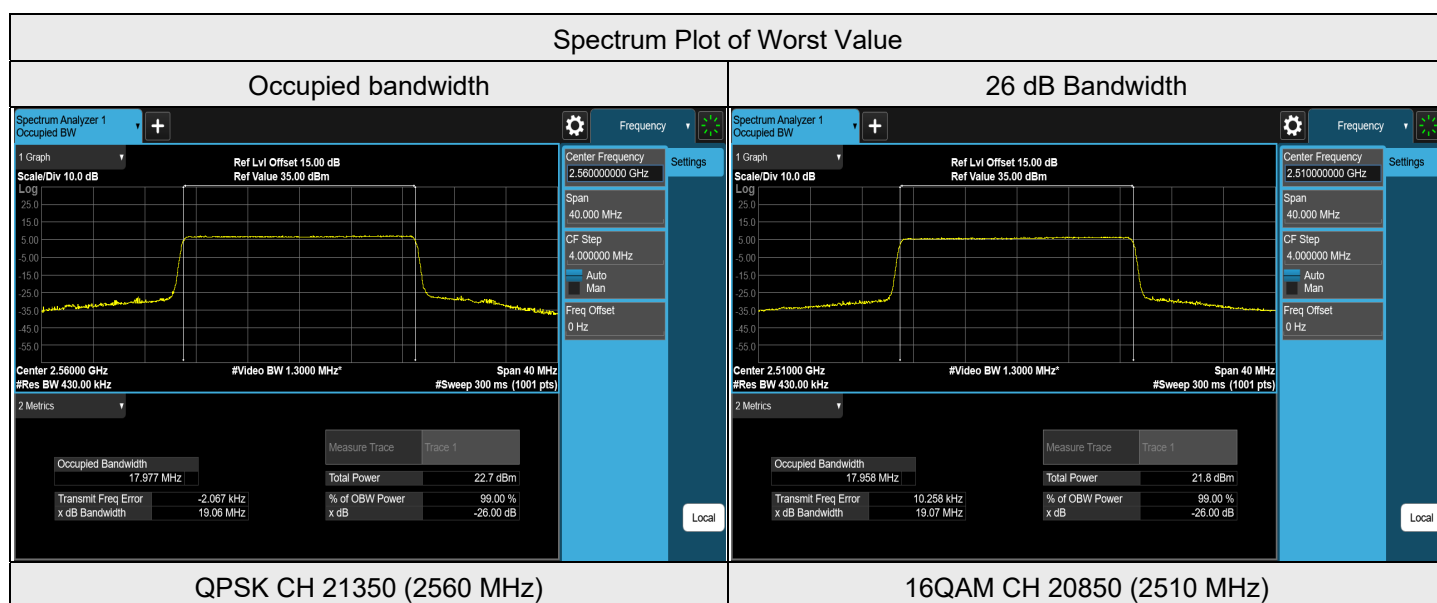
LTE Band 7, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20825	2507.5	13.4686	14.271
QPSK	21100	2535	13.4660	14.260
QPSK	21375	2562.5	13.4658	14.293
16QAM	20825	2507.5	13.4585	14.244
16QAM	21100	2535	13.4758	14.289
16QAM	21375	2562.5	13.4634	14.273
64QAM	20825	2507.5	13.4647	14.253
64QAM	21100	2535	13.4700	14.253
64QAM	21375	2562.5	13.4740	14.264
256QAM	20825	2507.5	13.4682	14.285
256QAM	21100	2535	13.4760	14.259
256QAM	21375	2562.5	13.4702	14.260



LTE Band 7, Channel Bandwidth: 20 MHz

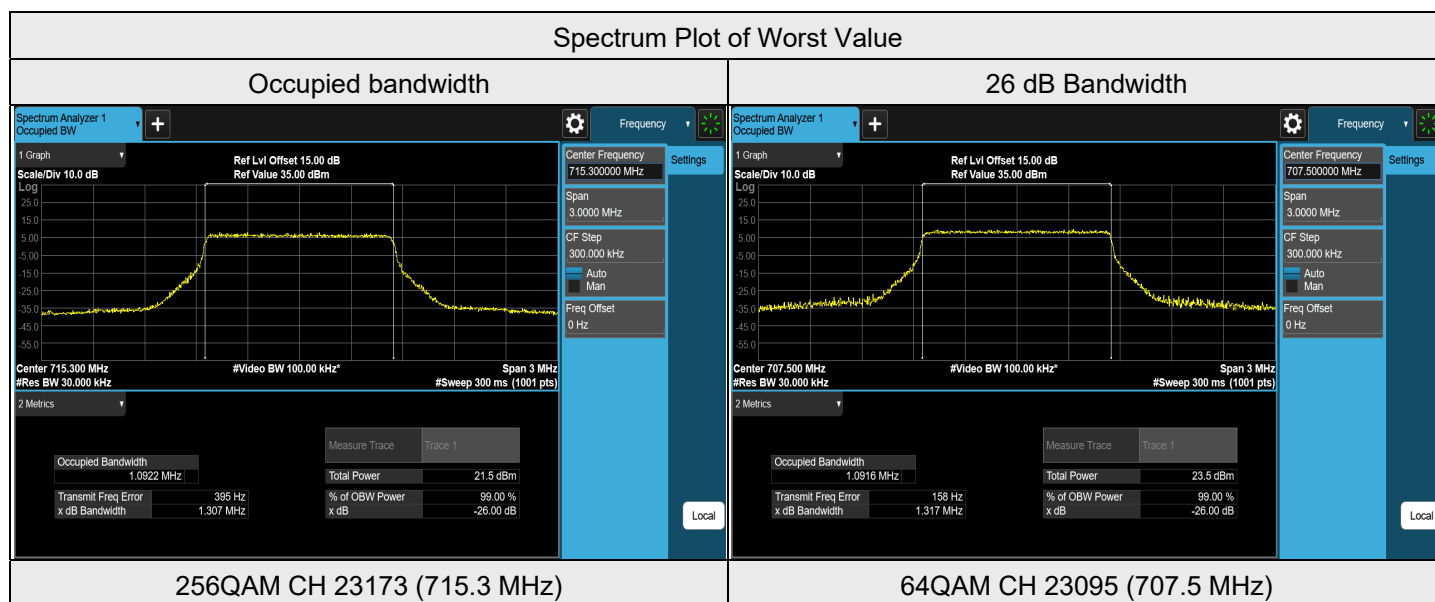
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20850	2510	17.9703	19.050
QPSK	21100	2535	17.9666	19.068
QPSK	21350	2560	17.9771	19.060
16QAM	20850	2510	17.9580	19.073
16QAM	21100	2535	17.9707	19.044
16QAM	21350	2560	17.9715	19.043
64QAM	20850	2510	17.9578	19.042
64QAM	21100	2535	17.9660	19.057
64QAM	21350	2560	17.9646	19.043
256QAM	20850	2510	17.9632	19.036
256QAM	21100	2535	17.9609	19.046
256QAM	21350	2560	17.9704	19.037



7.4.8 LTE Band 12

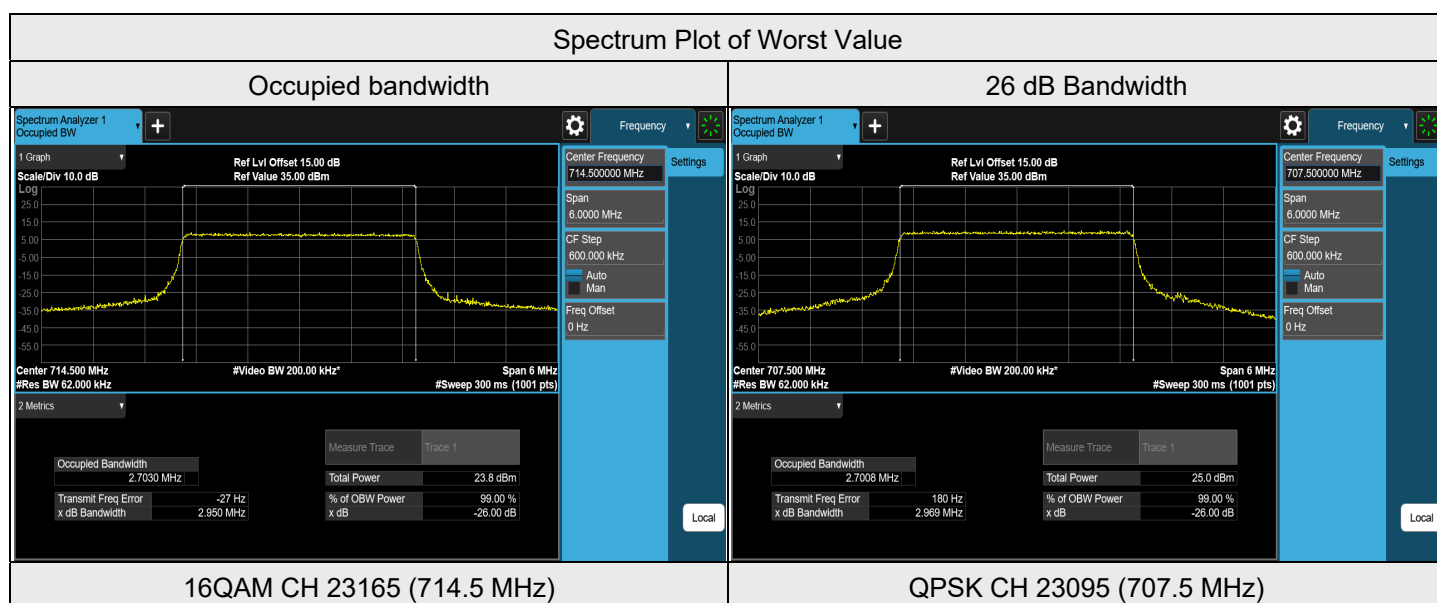
LTE Band 12, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23017	699.7	1.0894	1.300
QPSK	23095	707.5	1.0901	1.303
QPSK	23173	715.3	1.0914	1.303
16QAM	23017	699.7	1.0897	1.300
16QAM	23095	707.5	1.0901	1.302
16QAM	23173	715.3	1.0894	1.300
64QAM	23017	699.7	1.0893	1.313
64QAM	23095	707.5	1.0916	1.317
64QAM	23173	715.3	1.0902	1.307
256QAM	23017	699.7	1.0908	1.302
256QAM	23095	707.5	1.0905	1.314
256QAM	23173	715.3	1.0922	1.307



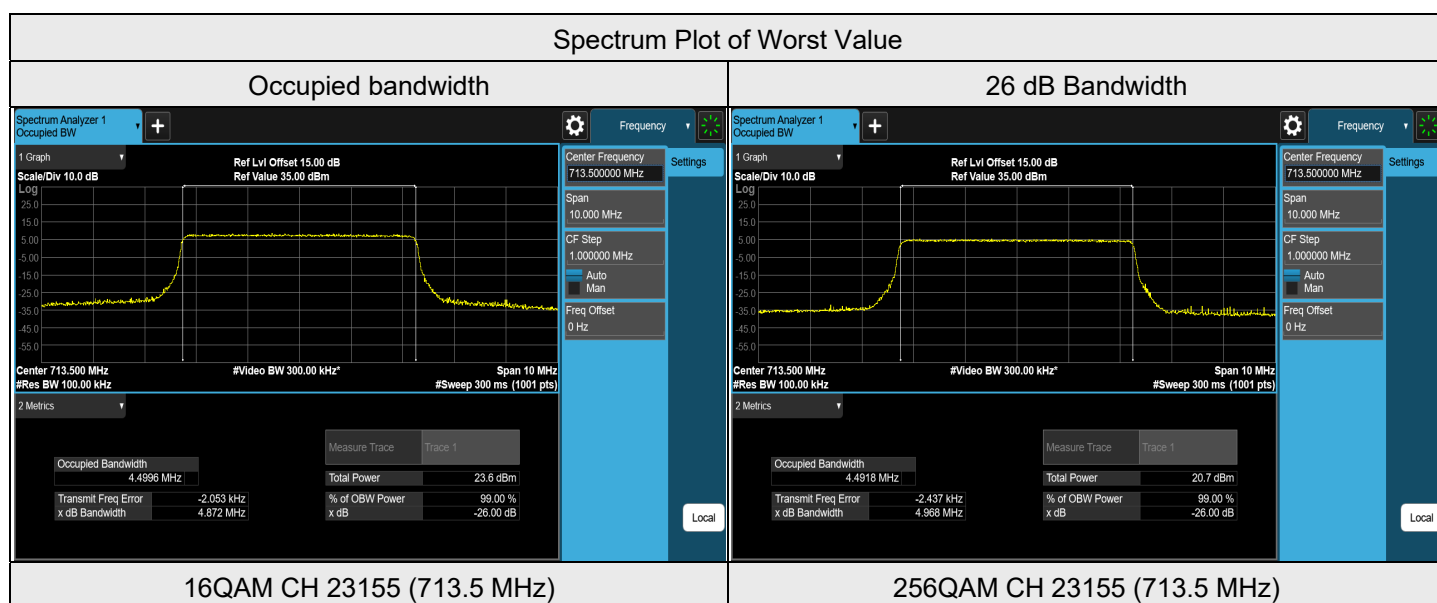
LTE Band 12, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23025	700.5	2.6997	2.935
QPSK	23095	707.5	2.7008	2.969
QPSK	23165	714.5	2.7029	2.958
16QAM	23025	700.5	2.7007	2.941
16QAM	23095	707.5	2.6989	2.949
16QAM	23165	714.5	2.7030	2.950
64QAM	23025	700.5	2.6995	2.948
64QAM	23095	707.5	2.7019	2.951
64QAM	23165	714.5	2.7019	2.966
256QAM	23025	700.5	2.7020	2.945
256QAM	23095	707.5	2.7015	2.962
256QAM	23165	714.5	2.6980	2.953



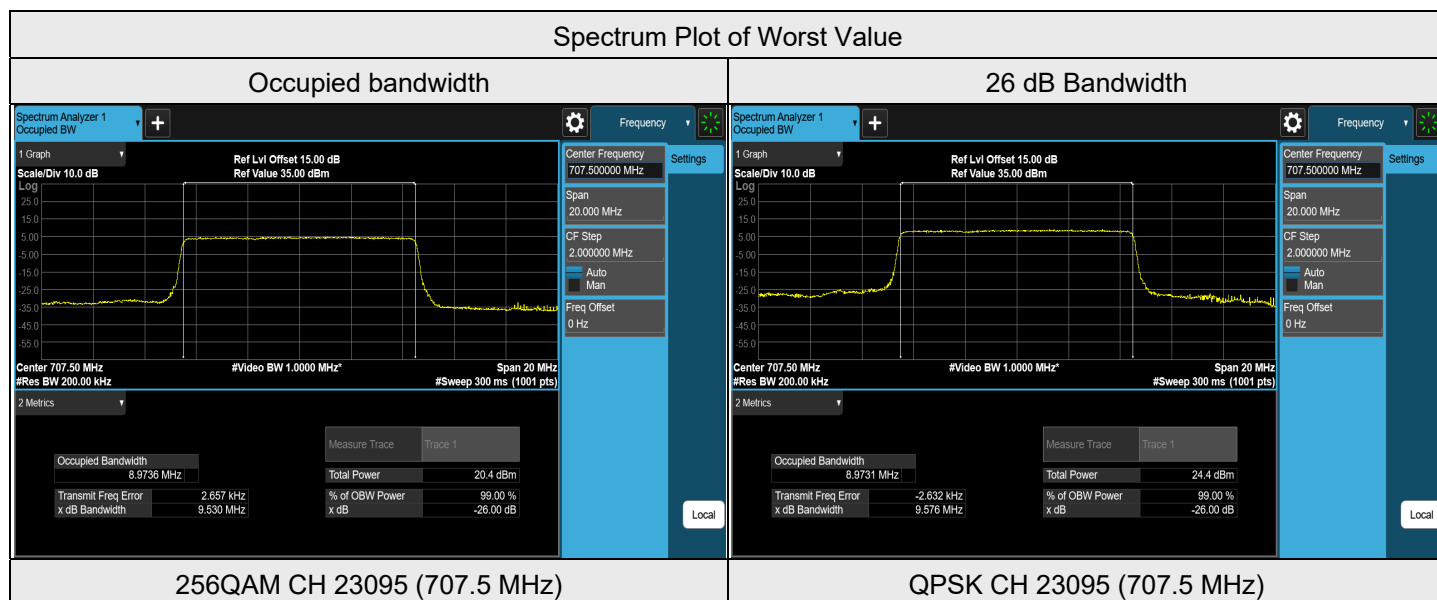
LTE Band 12, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23035	701.5	4.4948	4.865
QPSK	23095	707.5	4.4879	4.873
QPSK	23155	713.5	4.4938	4.888
16QAM	23035	701.5	4.4968	4.883
16QAM	23095	707.5	4.4941	4.869
16QAM	23155	713.5	4.4996	4.872
64QAM	23035	701.5	4.4948	4.874
64QAM	23095	707.5	4.4955	4.864
64QAM	23155	713.5	4.4934	4.834
256QAM	23035	701.5	4.4930	4.861
256QAM	23095	707.5	4.4970	4.861
256QAM	23155	713.5	4.4918	4.968



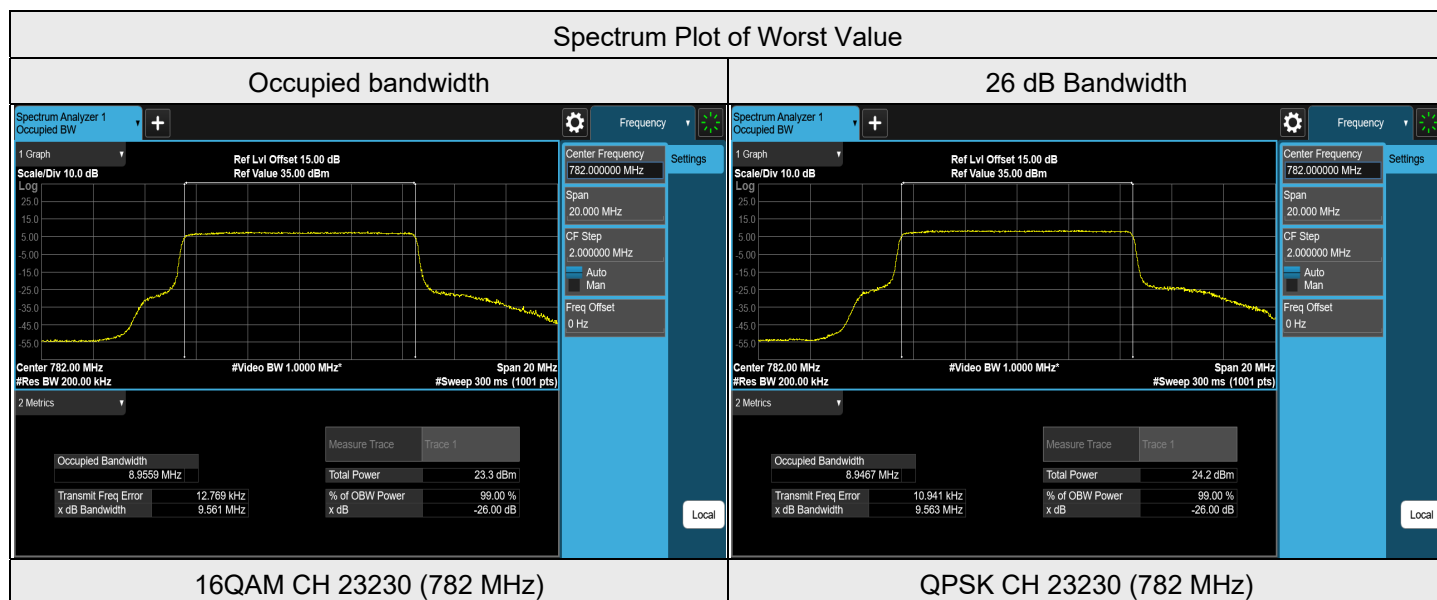
LTE Band 12, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23060	704	8.9721	9.560
QPSK	23095	707.5	8.9731	9.576
QPSK	23130	711	8.9633	9.534
16QAM	23060	704	8.9734	9.543
16QAM	23095	707.5	8.9712	9.551
16QAM	23130	711	8.9612	9.534
64QAM	23060	704	8.9686	9.533
64QAM	23095	707.5	8.9722	9.530
64QAM	23130	711	8.9611	9.536
256QAM	23060	704	8.9698	9.527
256QAM	23095	707.5	8.9736	9.530
256QAM	23130	711	8.9640	9.522



LTE Band 13, Channel Bandwidth: 10 MHz

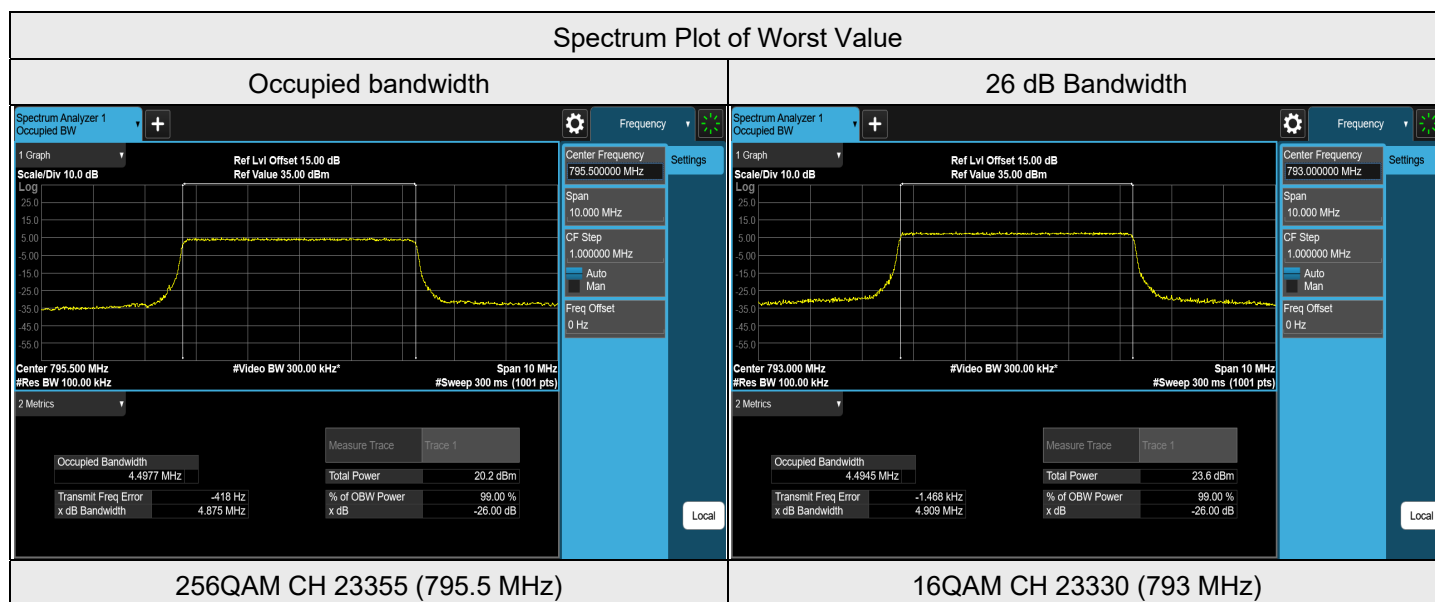
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23230	782	8.9467	9.563
16QAM	23230	782	8.9559	9.561
64QAM	23230	782	8.9516	9.506
256QAM	23230	782	8.9470	9.538



7.4.10 LTE Band 14

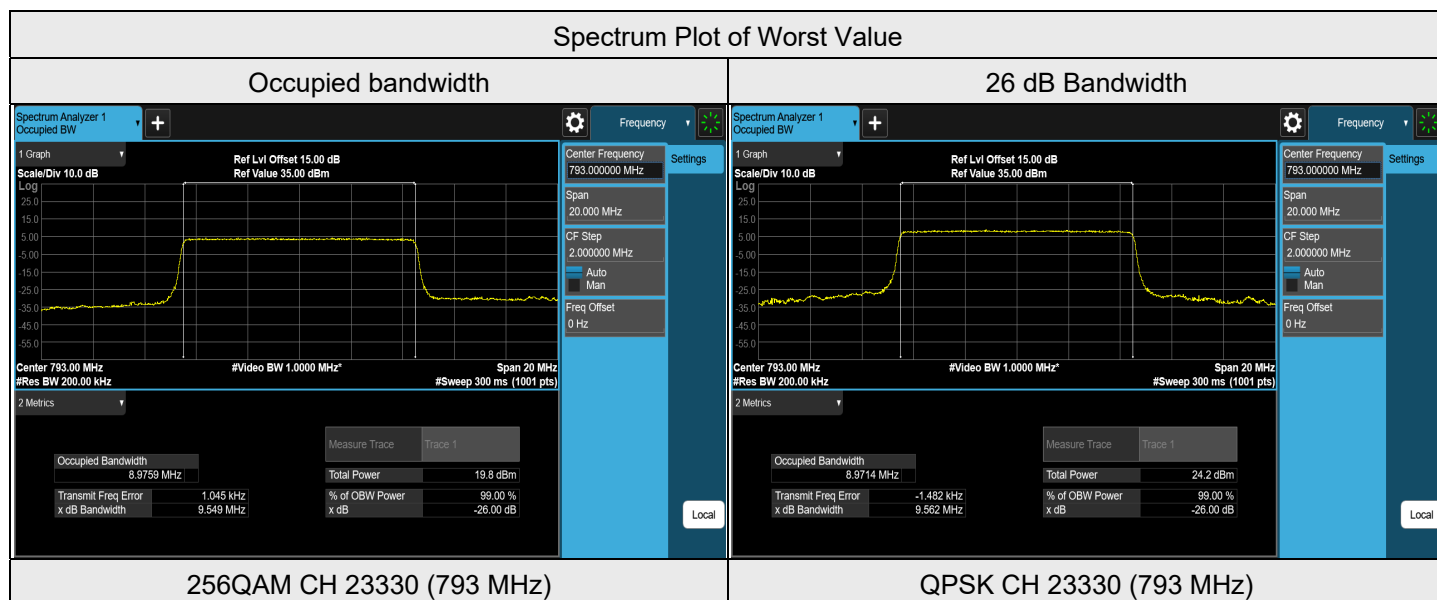
LTE Band 14, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23305	790.5	4.4953	4.875
QPSK	23330	793	4.4952	4.842
QPSK	23355	795.5	4.4963	4.870
16QAM	23305	790.5	4.4958	4.872
16QAM	23330	793	4.4945	4.909
16QAM	23355	795.5	4.4944	4.876
64QAM	23305	790.5	4.4961	4.883
64QAM	23330	793	4.4962	4.901
64QAM	23355	795.5	4.4945	4.882
256QAM	23305	790.5	4.4956	4.884
256QAM	23330	793	4.4969	4.870
256QAM	23355	795.5	4.4977	4.875



LTE Band 14, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23330	793	8.9714	9.562
16QAM	23330	793	8.9716	9.551
64QAM	23330	793	8.9706	9.528
256QAM	23330	793	8.9759	9.549

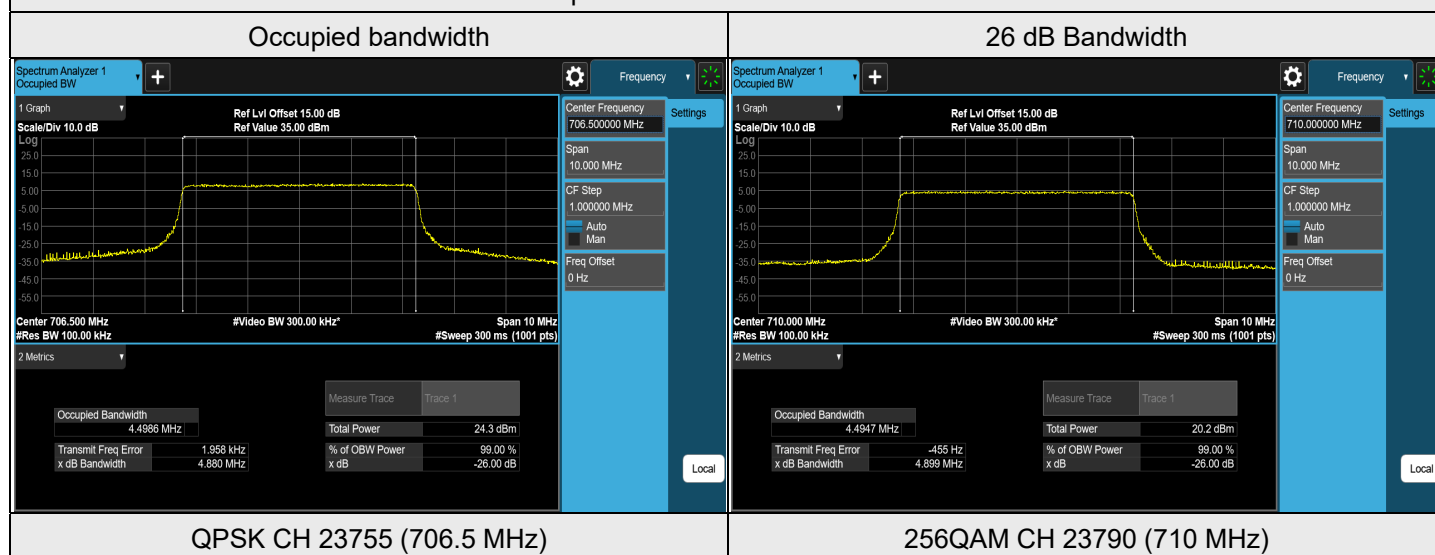


7.4.11 LTE Band 17

LTE Band 17, Channel Bandwidth: 5 MHz

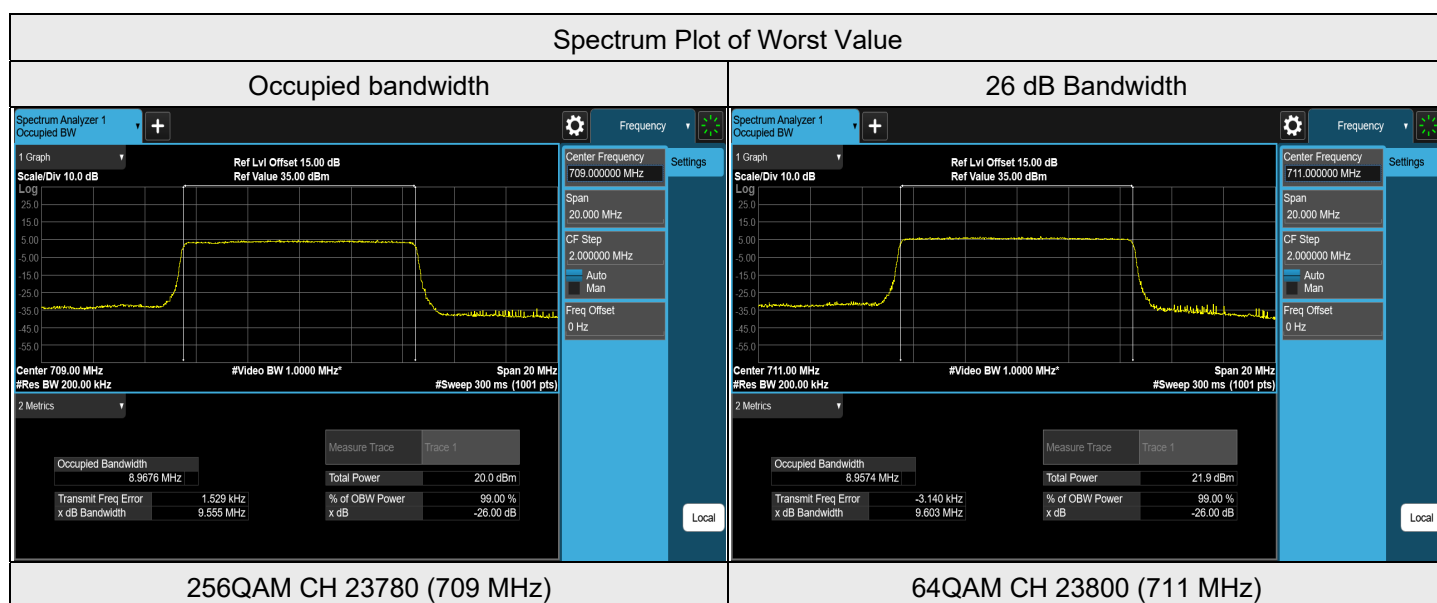
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23755	706.5	4.4986	4.880
QPSK	23790	710	4.4923	4.868
QPSK	23825	713.5	4.4947	4.890
16QAM	23755	706.5	4.4979	4.879
16QAM	23790	710	4.4959	4.865
16QAM	23825	713.5	4.4950	4.878
64QAM	23755	706.5	4.4951	4.882
64QAM	23790	710	4.4914	4.882
64QAM	23825	713.5	4.4909	4.869
256QAM	23755	706.5	4.4924	4.872
256QAM	23790	710	4.4947	4.899
256QAM	23825	713.5	4.4897	4.873

Spectrum Plot of Worst Value



LTE Band 17, Channel Bandwidth: 10 MHz

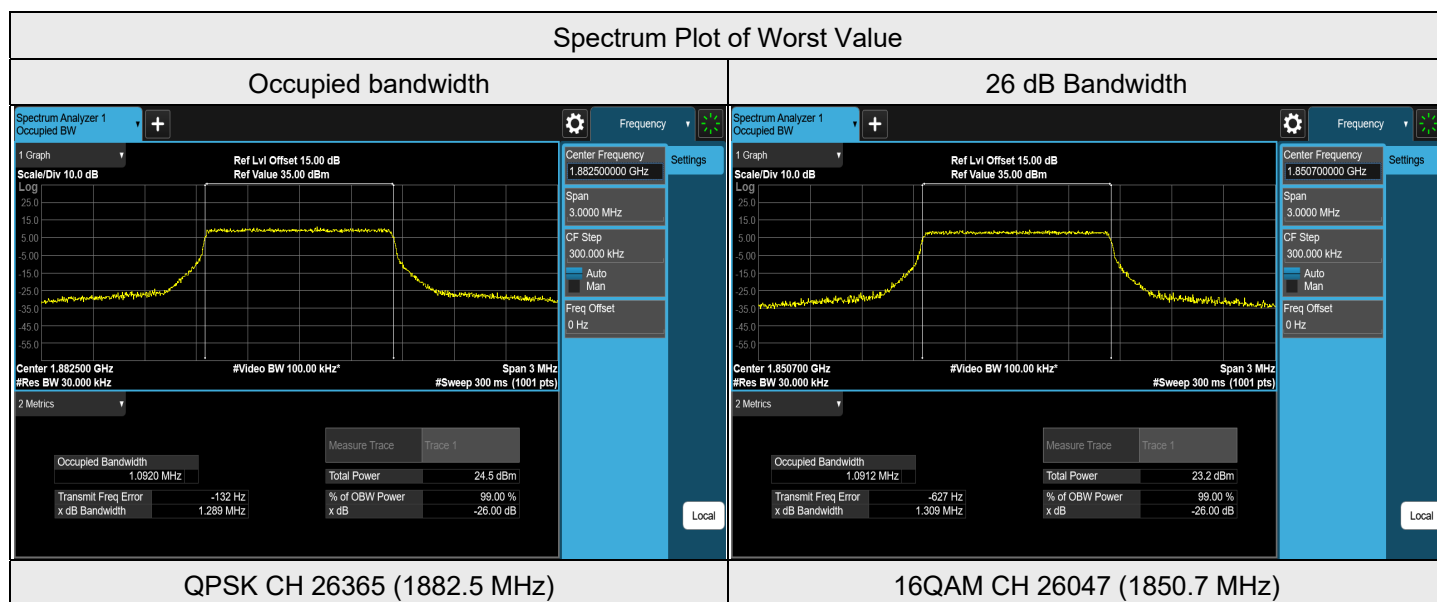
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23780	709	8.9663	9.561
QPSK	23790	710	8.9558	9.540
QPSK	23800	711	8.9634	9.568
16QAM	23780	709	8.9628	9.550
16QAM	23790	710	8.9559	9.543
16QAM	23800	711	8.9560	9.527
64QAM	23780	709	8.9613	9.527
64QAM	23790	710	8.9560	9.513
64QAM	23800	711	8.9574	9.603
256QAM	23780	709	8.9676	9.555
256QAM	23790	710	8.9574	9.514
256QAM	23800	711	8.9591	9.527



7.4.12 LTE Band 25

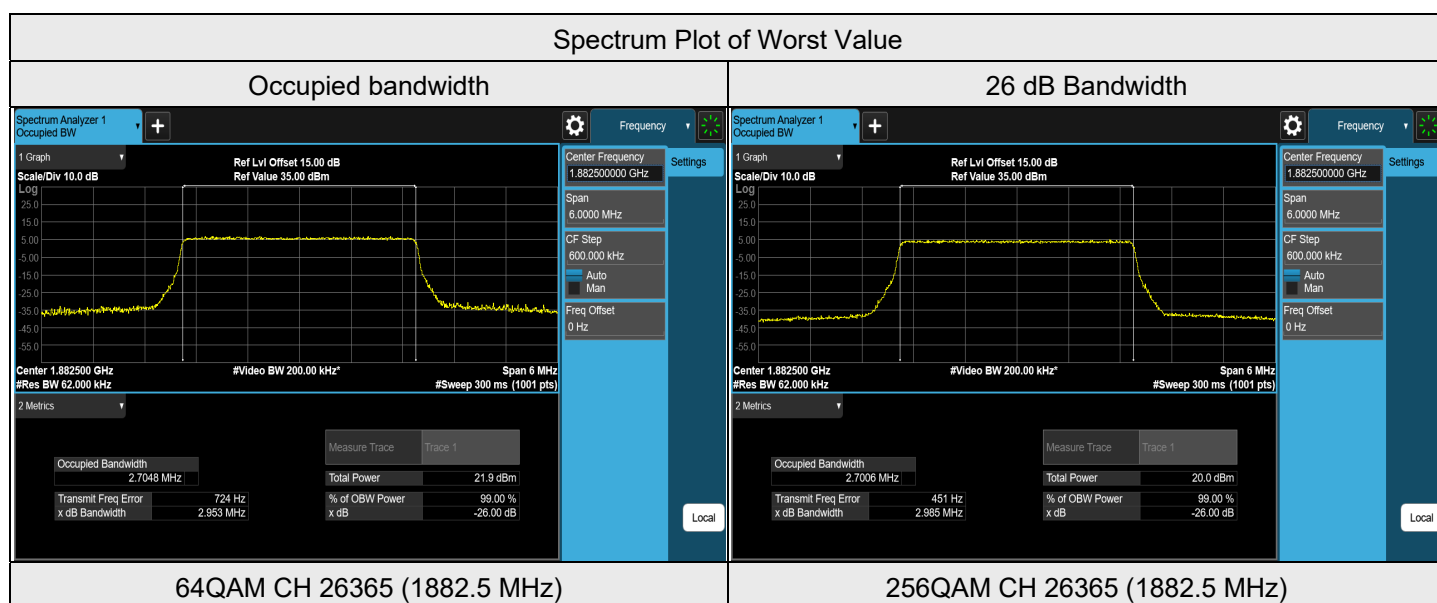
LTE Band 25, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26047	1850.7	1.0904	1.306
QPSK	26365	1882.5	1.0920	1.289
QPSK	26683	1914.3	1.0902	1.298
16QAM	26047	1850.7	1.0912	1.309
16QAM	26365	1882.5	1.0905	1.307
16QAM	26683	1914.3	1.0905	1.294
64QAM	26047	1850.7	1.0904	1.309
64QAM	26365	1882.5	1.0911	1.305
64QAM	26683	1914.3	1.0911	1.304
256QAM	26047	1850.7	1.0903	1.289
256QAM	26365	1882.5	1.0907	1.305
256QAM	26683	1914.3	1.0897	1.297



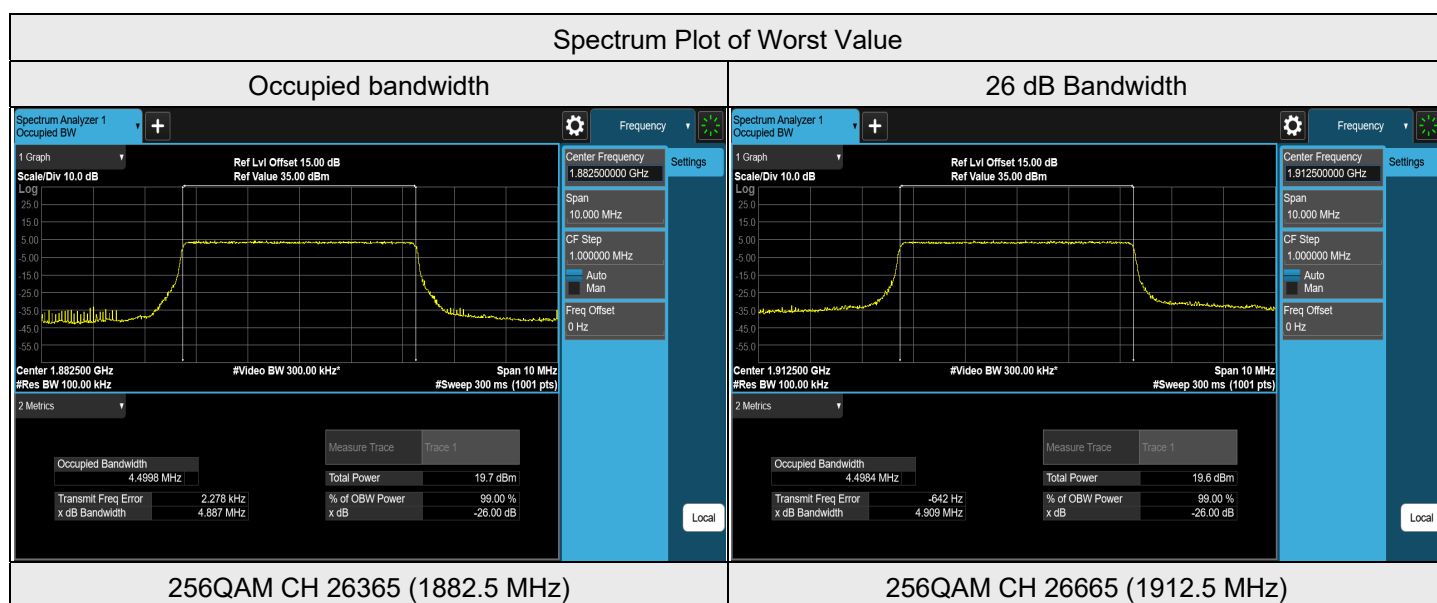
LTE Band 25, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26055	1851.5	2.7040	2.972
QPSK	26365	1882.5	2.7024	2.930
QPSK	26675	1913.5	2.7022	2.960
16QAM	26055	1851.5	2.7030	2.952
16QAM	26365	1882.5	2.7008	2.968
16QAM	26675	1913.5	2.7019	2.962
64QAM	26055	1851.5	2.7006	2.948
64QAM	26365	1882.5	2.7048	2.953
64QAM	26675	1913.5	2.6996	2.968
256QAM	26055	1851.5	2.7009	2.956
256QAM	26365	1882.5	2.7006	2.985
256QAM	26675	1913.5	2.7023	2.970



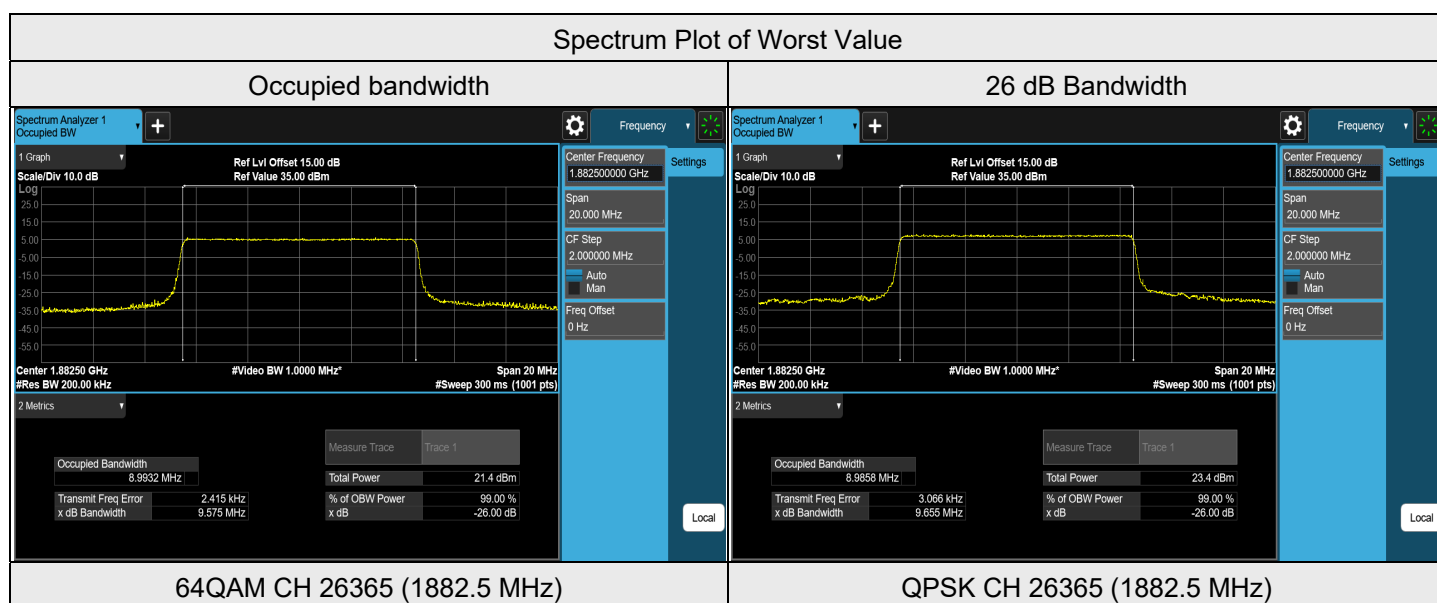
LTE Band 25, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26065	1852.5	4.4962	4.892
QPSK	26365	1882.5	4.4967	4.890
QPSK	26665	1912.5	4.4928	4.904
16QAM	26065	1852.5	4.4940	4.887
16QAM	26365	1882.5	4.4949	4.864
16QAM	26665	1912.5	4.4972	4.888
64QAM	26065	1852.5	4.4993	4.892
64QAM	26365	1882.5	4.4941	4.872
64QAM	26665	1912.5	4.4943	4.862
256QAM	26065	1852.5	4.4960	4.883
256QAM	26365	1882.5	4.4998	4.887
256QAM	26665	1912.5	4.4984	4.909



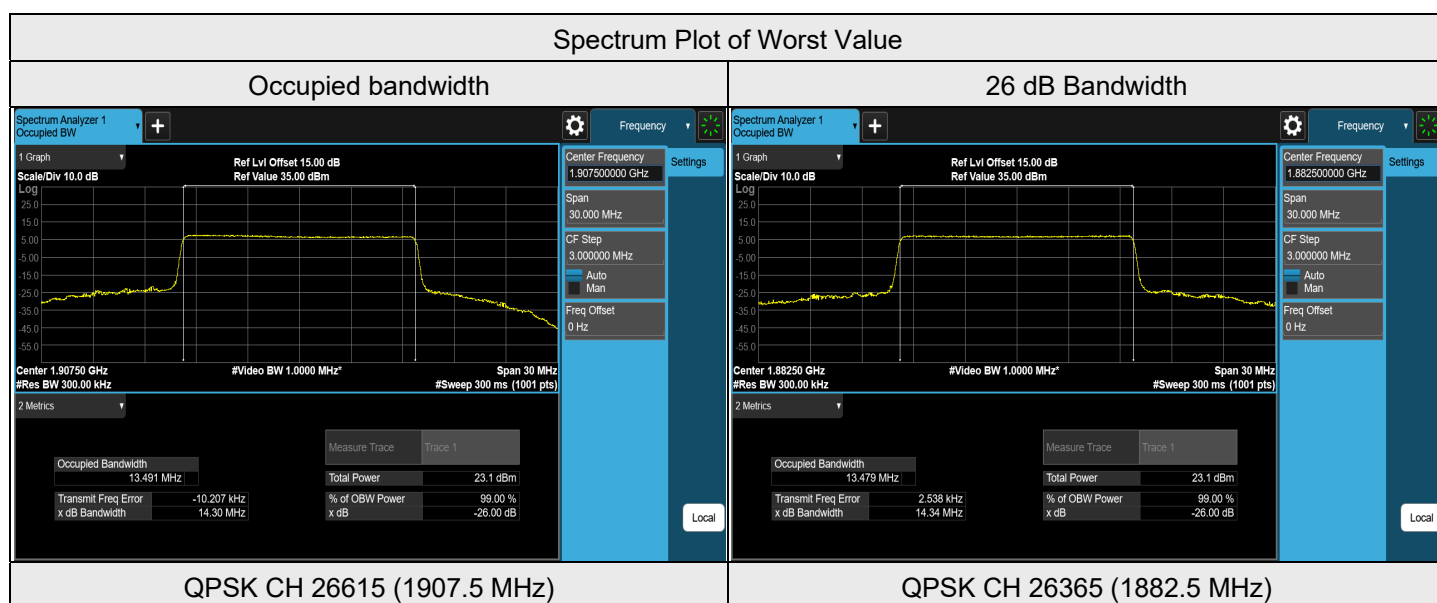
LTE Band 25, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26090	1855	8.9831	9.581
QPSK	26365	1882.5	8.9858	9.655
QPSK	26640	1910	8.9891	9.597
16QAM	26090	1855	8.9818	9.561
16QAM	26365	1882.5	8.9818	9.584
16QAM	26640	1910	8.9824	9.625
64QAM	26090	1855	8.9876	9.567
64QAM	26365	1882.5	8.9932	9.575
64QAM	26640	1910	8.9871	9.573
256QAM	26090	1855	8.9929	9.555
256QAM	26365	1882.5	8.9814	9.561
256QAM	26640	1910	8.9905	9.592



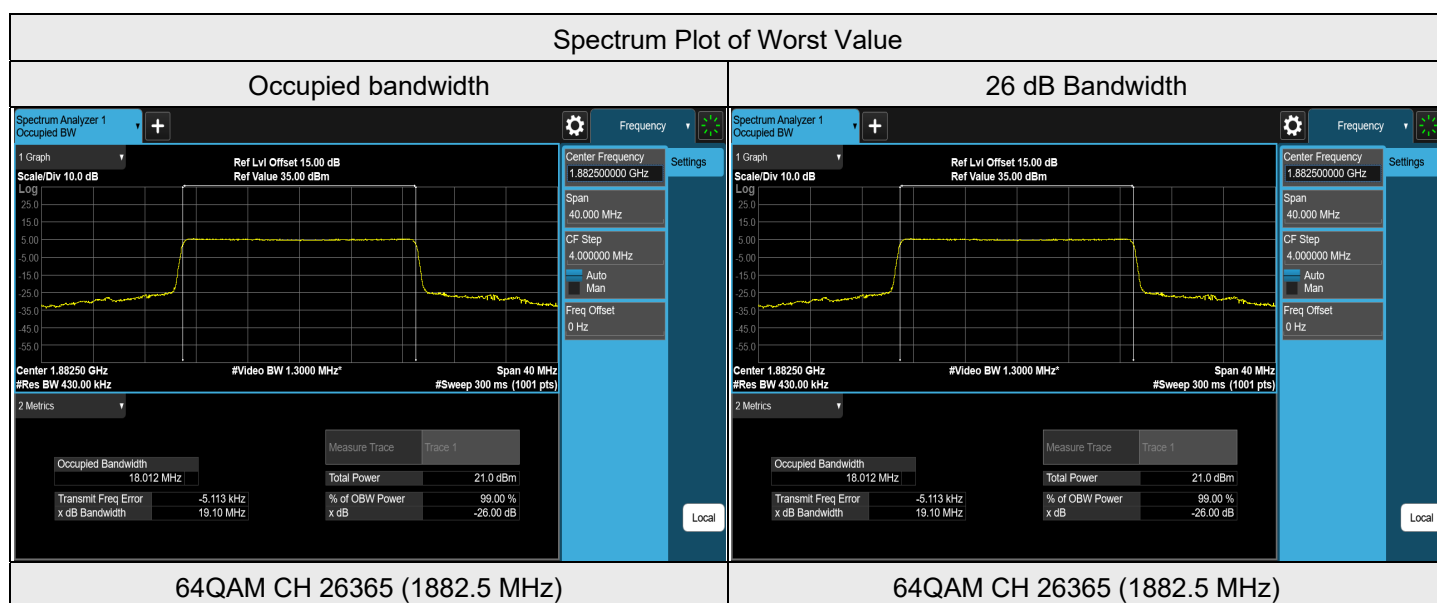
LTE Band 25, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26115	1857.5	13.4621	14.311
QPSK	26365	1882.5	13.4791	14.344
QPSK	26615	1907.5	13.4909	14.299
16QAM	26115	1857.5	13.4553	14.243
16QAM	26365	1882.5	13.4822	14.291
16QAM	26615	1907.5	13.4844	14.292
64QAM	26115	1857.5	13.4705	14.260
64QAM	26365	1882.5	13.4741	14.276
64QAM	26615	1907.5	13.4850	14.288
256QAM	26115	1857.5	13.4729	14.266
256QAM	26365	1882.5	13.4775	14.322
256QAM	26615	1907.5	13.4734	14.309



LTE Band 25, Channel Bandwidth: 20 MHz

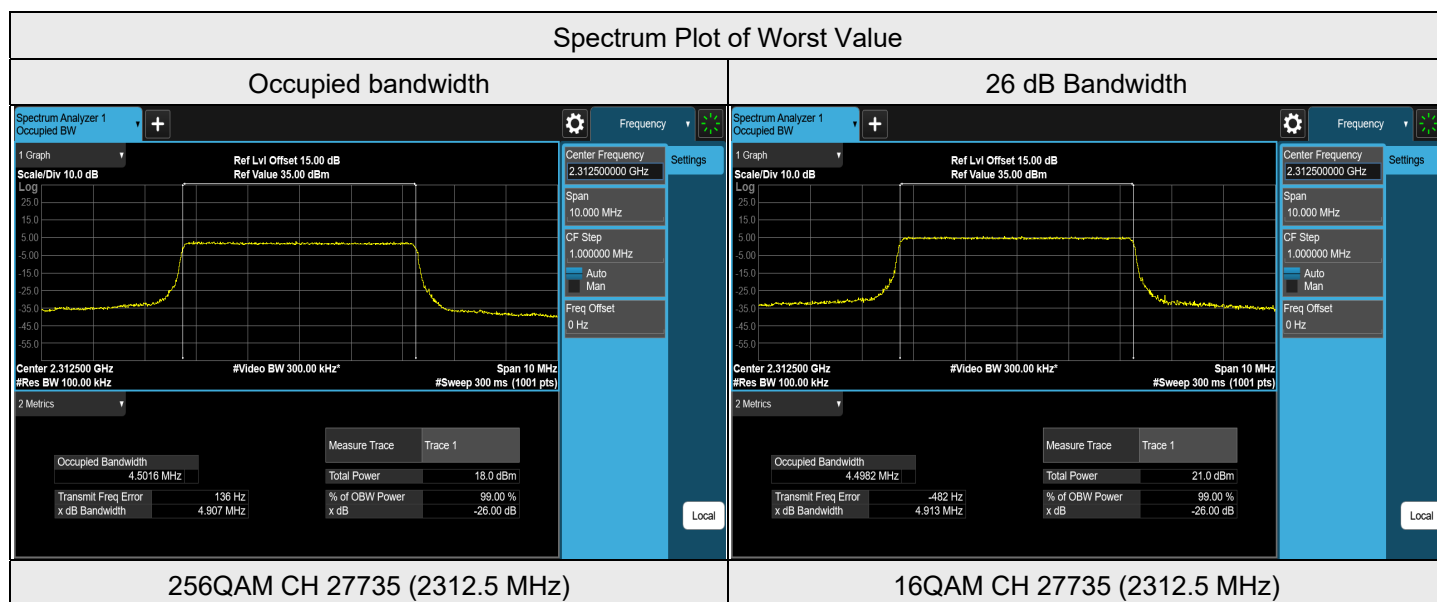
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26140	1860	17.9541	19.088
QPSK	26365	1882.5	18.0085	19.098
QPSK	26590	1905	17.9559	19.057
16QAM	26140	1860	17.9576	19.059
16QAM	26365	1882.5	18.0099	19.095
16QAM	26590	1905	17.9589	19.065
64QAM	26140	1860	17.9530	19.040
64QAM	26365	1882.5	18.0122	19.100
64QAM	26590	1905	17.9519	19.047
256QAM	26140	1860	17.9657	19.021
256QAM	26365	1882.5	18.0051	19.089
256QAM	26590	1905	17.9563	19.059



7.4.13 LTE Band 30

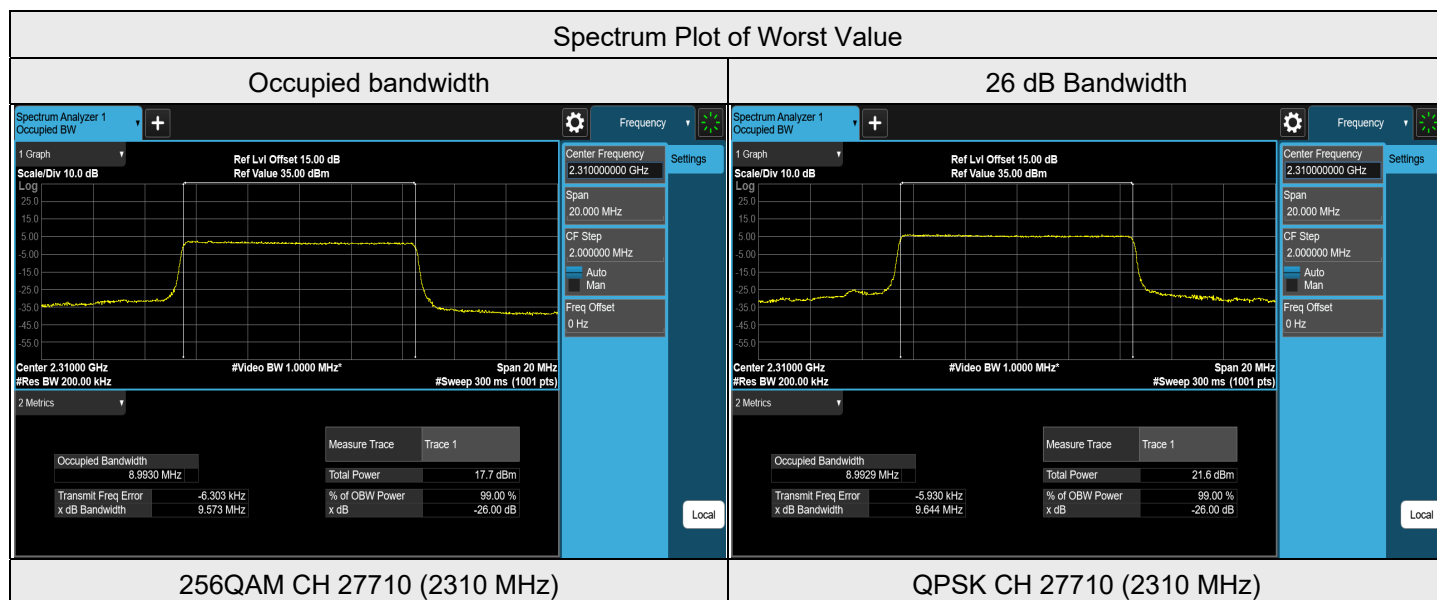
LTE Band 30, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	27685	2307.5	4.4957	4.888
QPSK	27710	2310	4.5006	4.867
QPSK	27735	2312.5	4.4949	4.873
16QAM	27685	2307.5	4.4940	4.859
16QAM	27710	2310	4.5000	4.912
16QAM	27735	2312.5	4.4982	4.913
64QAM	27685	2307.5	4.4968	4.871
64QAM	27710	2310	4.4986	4.891
64QAM	27735	2312.5	4.4963	4.895
256QAM	27685	2307.5	4.4972	4.871
256QAM	27710	2310	4.4980	4.889
256QAM	27735	2312.5	4.5016	4.907



LTE Band 30, Channel Bandwidth: 10 MHz

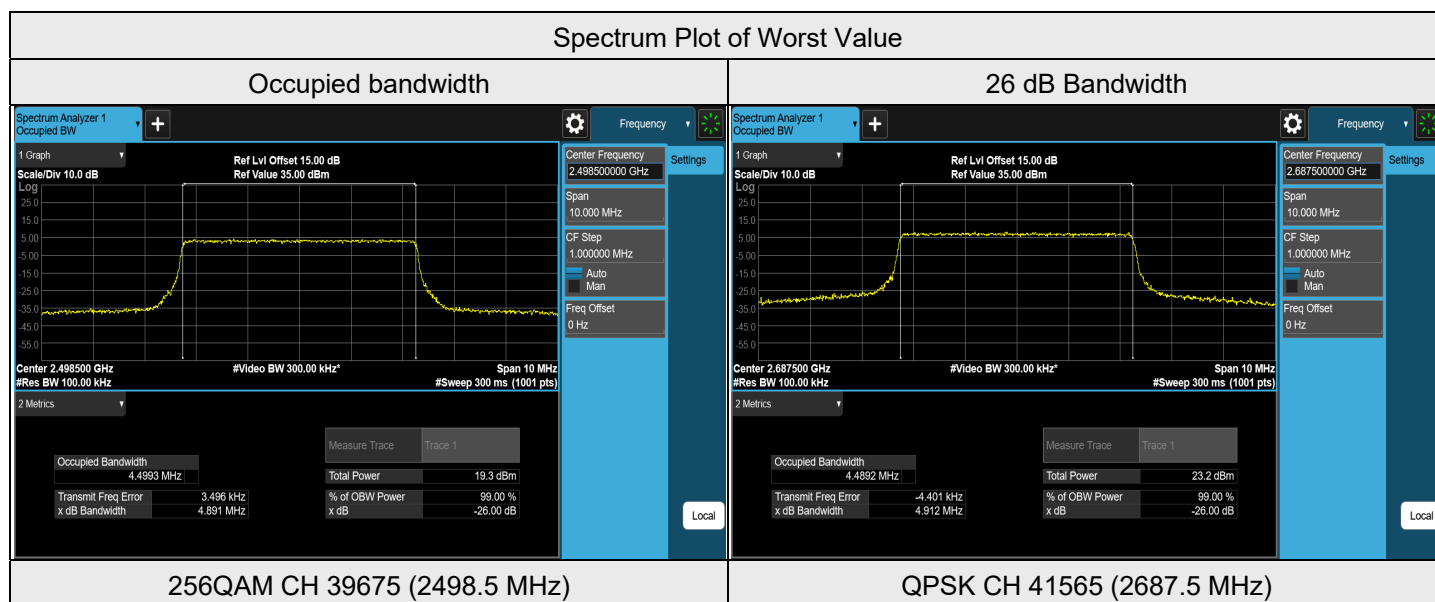
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	27710	2310	8.9929	9.644
16QAM	27710	2310	8.9919	9.571
64QAM	27710	2310	8.9849	9.560
256QAM	27710	2310	8.9930	9.573



7.4.14 LTE Band 41

LTE Band 41, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	39675	2498.5	4.4893	4.825
QPSK	40620	2593	4.4930	4.869
QPSK	41565	2687.5	4.4892	4.912
16QAM	39675	2498.5	4.4940	4.837
16QAM	40620	2593	4.4914	4.859
16QAM	41565	2687.5	4.4952	4.856
64QAM	39675	2498.5	4.4962	4.872
64QAM	40620	2593	4.4939	4.866
64QAM	41565	2687.5	4.4935	4.823
256QAM	39675	2498.5	4.4993	4.891
256QAM	40620	2593	4.4984	4.868
256QAM	41565	2687.5	4.4932	4.858



LTE Band 41, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	39700	2501	8.9691	9.526
QPSK	40620	2593	8.9777	9.525
QPSK	41540	2685	8.9733	9.565
16QAM	39700	2501	8.9824	9.536
16QAM	40620	2593	8.9768	9.543
16QAM	41540	2685	8.9665	9.518
64QAM	39700	2501	8.9727	9.534
64QAM	40620	2593	8.9770	9.532
64QAM	41540	2685	8.9708	9.503
256QAM	39700	2501	8.9712	9.551
256QAM	40620	2593	8.9748	9.538
256QAM	41540	2685	8.9753	9.547

