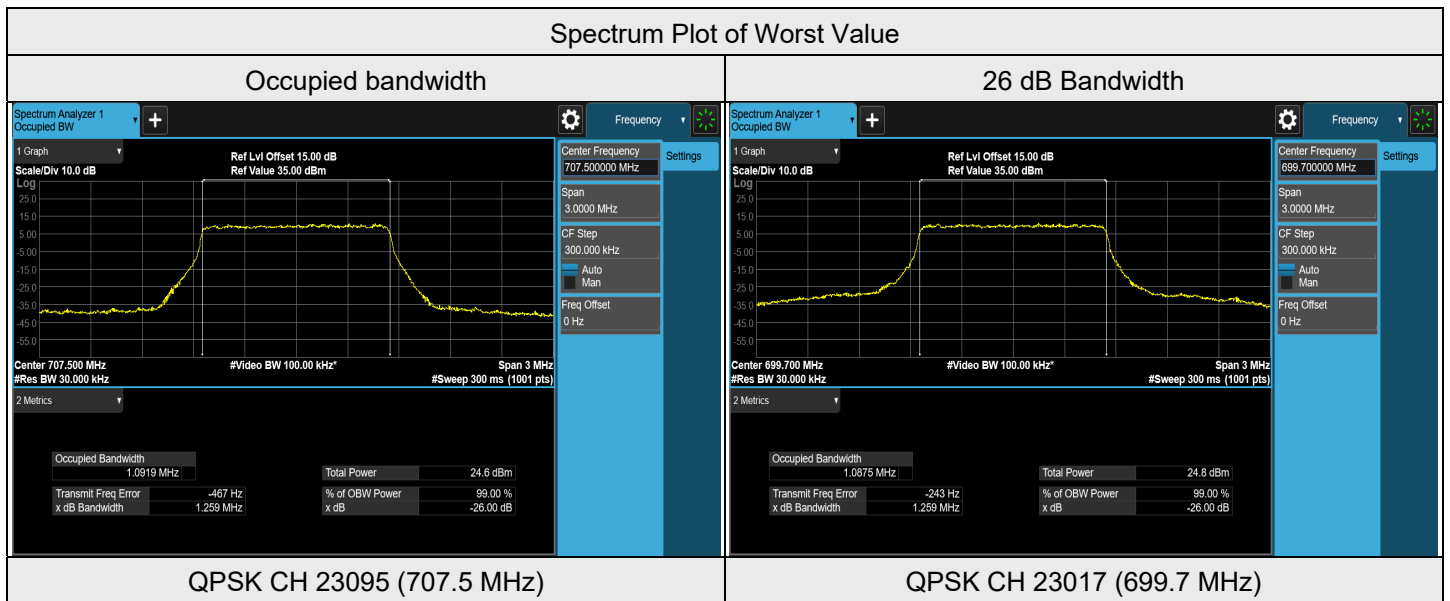


7.4.5 LTE Band 12

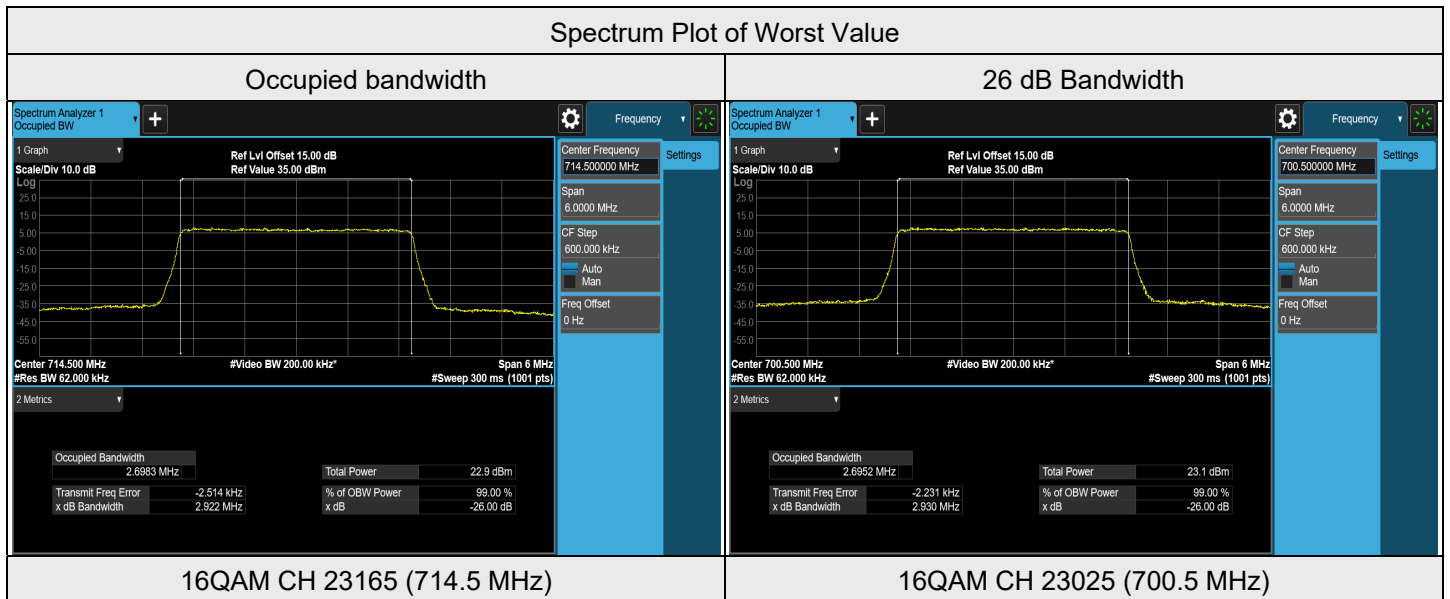
LTE Band 12, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23017	699.7	1.0875	1.259
QPSK	23095	707.5	1.0919	1.259
QPSK	23173	715.3	1.0915	1.255
16QAM	23017	699.7	1.0882	1.242
16QAM	23095	707.5	1.0879	1.249
16QAM	23173	715.3	1.0874	1.250



LTE Band 12, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23025	700.5	2.6954	2.916
QPSK	23095	707.5	2.6957	2.914
QPSK	23165	714.5	2.6976	2.919
16QAM	23025	700.5	2.6952	2.930
16QAM	23095	707.5	2.6971	2.914
16QAM	23165	714.5	2.6983	2.922

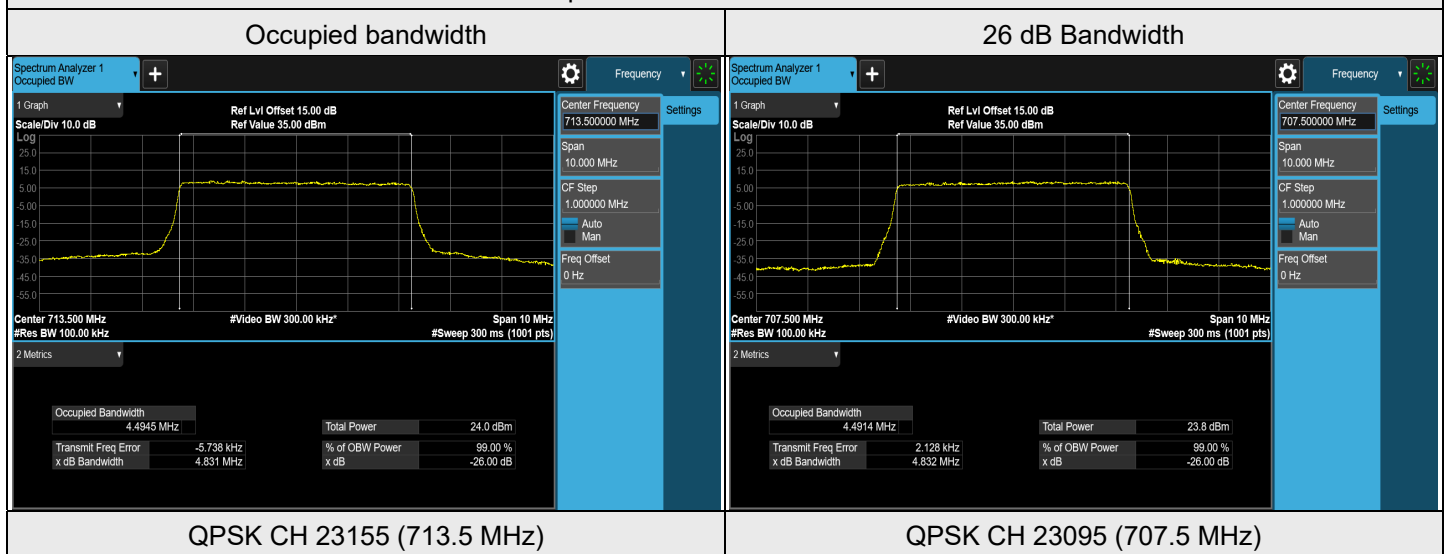




LTE Band 12, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23035	701.5	4.4919	4.801
QPSK	23095	707.5	4.4914	4.832
QPSK	23155	713.5	4.4945	4.831
16QAM	23035	701.5	4.4863	4.797
16QAM	23095	707.5	4.4867	4.804
16QAM	23155	713.5	4.4928	4.810

Spectrum Plot of Worst Value

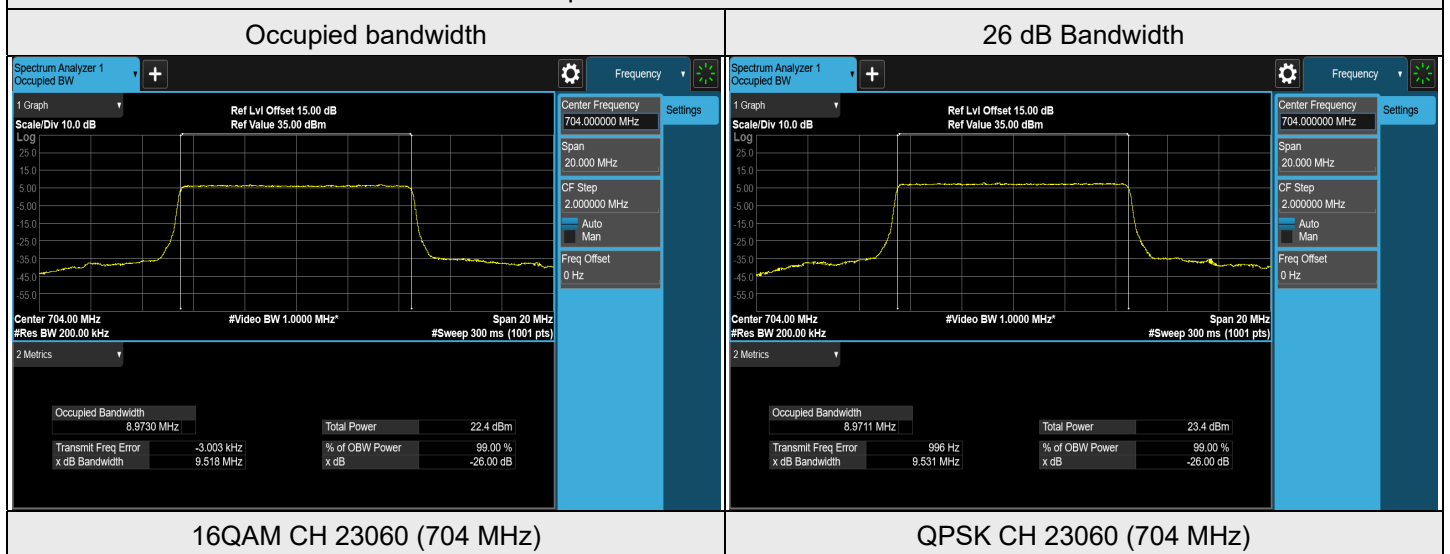




LTE Band 12, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23060	704	8.9711	9.531
QPSK	23095	707.5	8.9497	9.501
QPSK	23130	711	8.9388	9.498
16QAM	23060	704	8.9730	9.518
16QAM	23095	707.5	8.9494	9.507
16QAM	23130	711	8.9377	9.493

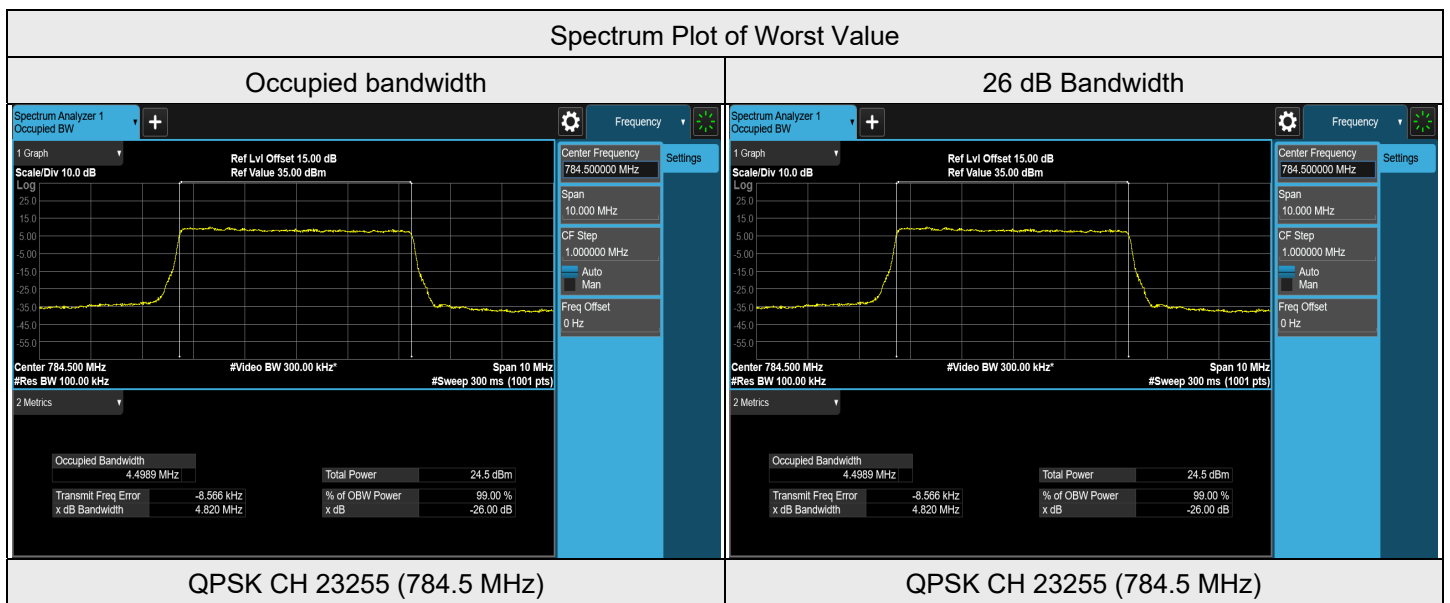
Spectrum Plot of Worst Value



7.4.6 LTE Band 13

LTE Band 13, Channel Bandwidth: 5 MHz

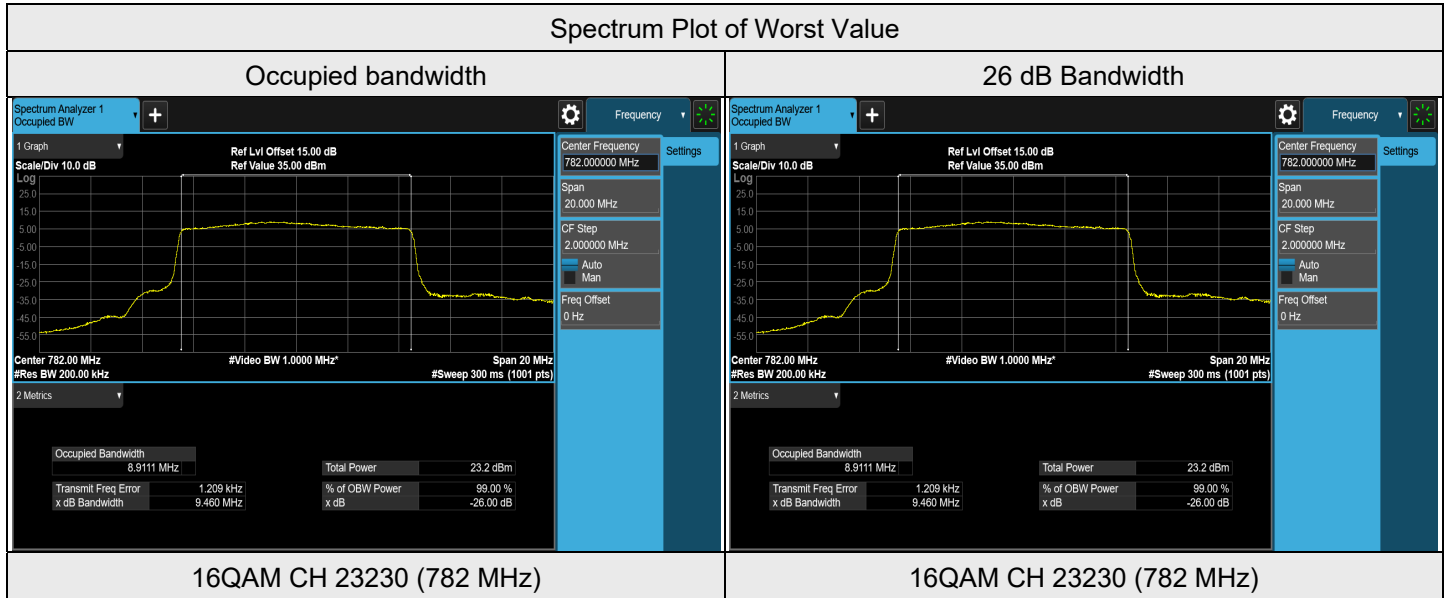
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23205	779.5	4.4878	4.814
QPSK	23230	782	4.4753	4.791
QPSK	23255	784.5	4.4989	4.820
16QAM	23205	779.5	4.4832	4.784
16QAM	23230	782	4.4723	4.782
16QAM	23255	784.5	4.4965	4.803





LTE Band 13, Channel Bandwidth: 10 MHz

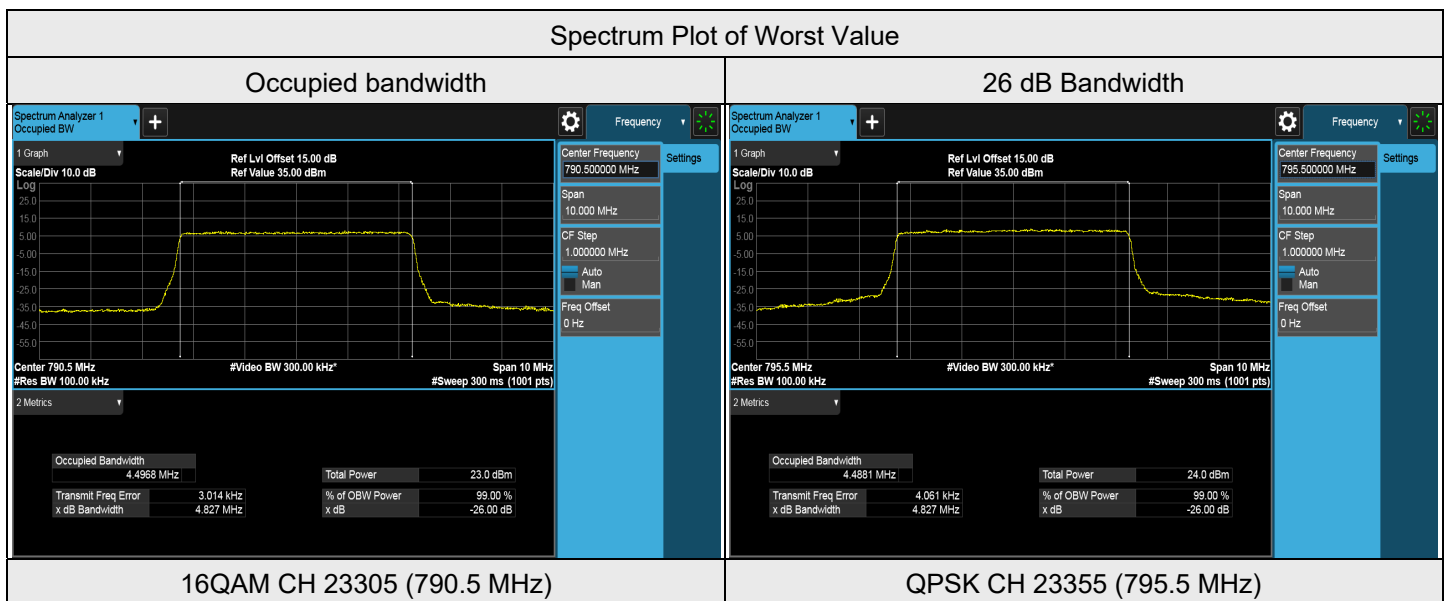
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23230	782	8.9109	9.454
16QAM	23230	782	8.9111	9.460



7.4.7 LTE Band 14

LTE Band 14, Channel Bandwidth: 5 MHz

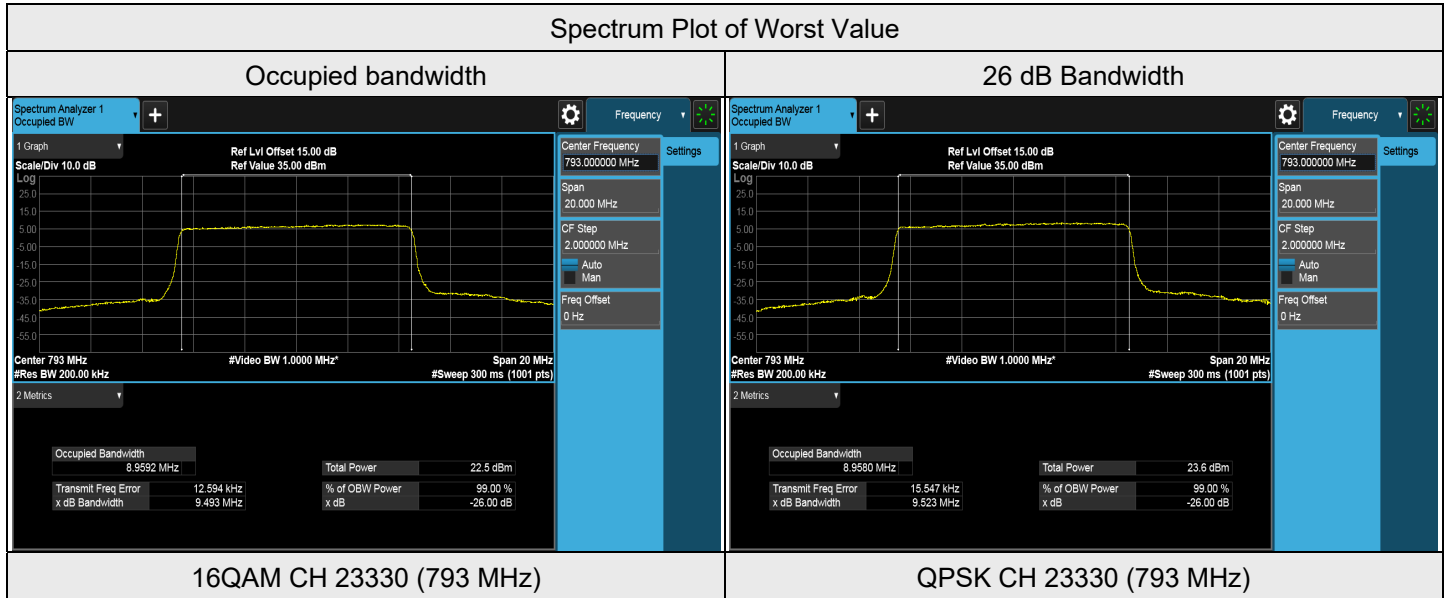
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23305	790.5	4.4902	4.820
QPSK	23330	793	4.4950	4.806
QPSK	23355	795.5	4.4881	4.827
16QAM	23305	790.5	4.4968	4.827
16QAM	23330	793	4.4904	4.816
16QAM	23355	795.5	4.4860	4.815





LTE Band 14, Channel Bandwidth: 10 MHz

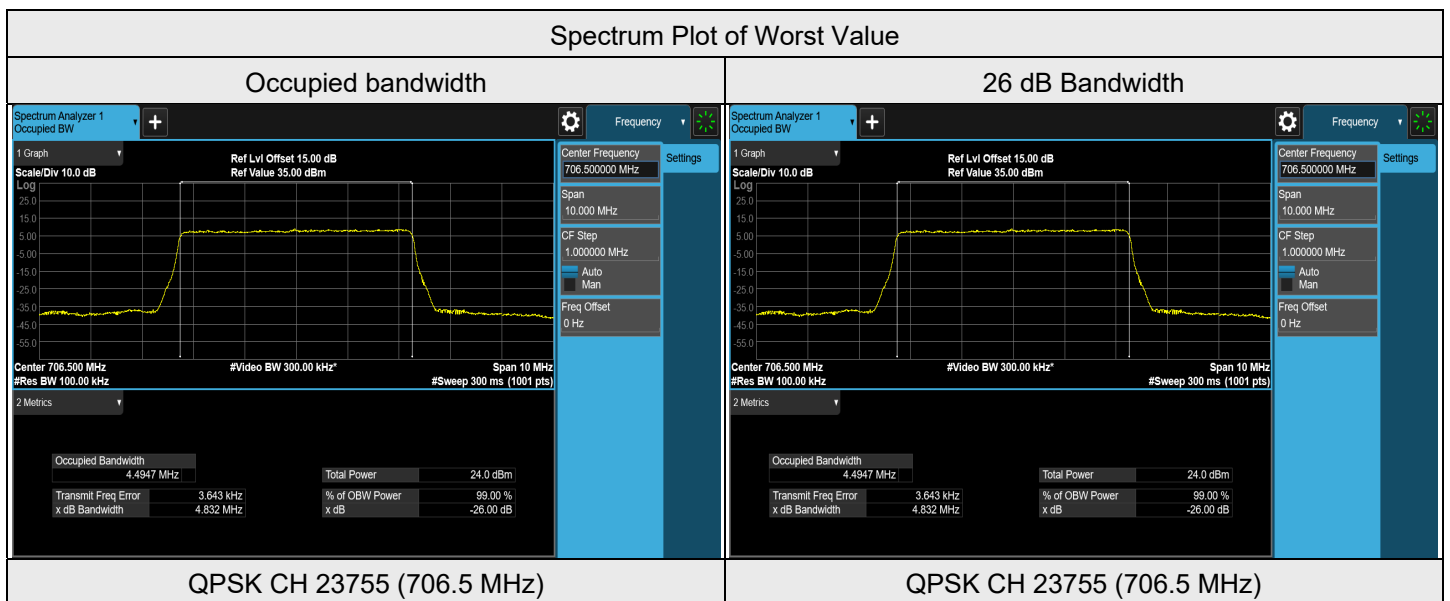
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23330	793	8.9580	9.523
16QAM	23330	793	8.9592	9.493



7.4.8 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	4.4947	4.832
QPSK	23790	710	4.4883	4.810
QPSK	23825	713.5	4.4934	4.826
16QAM	23755	706.5	4.4879	4.787
16QAM	23790	710	4.4855	4.800
16QAM	23825	713.5	4.4913	4.817

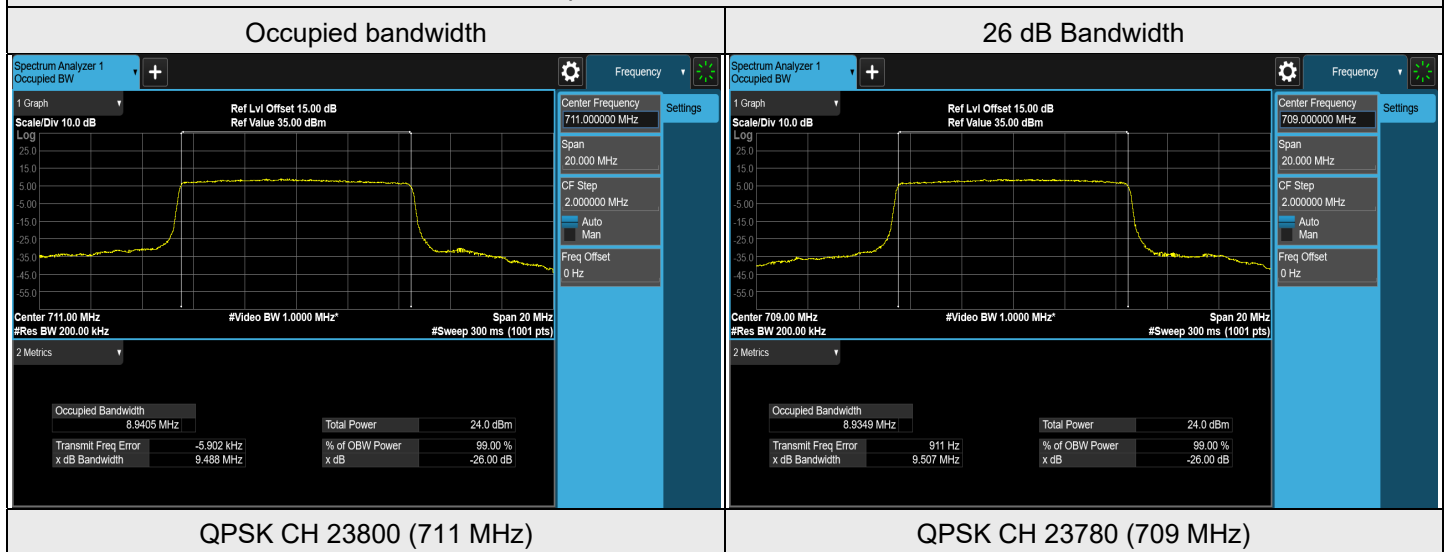




LTE Band 17, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23780	709	8.9349	9.507
QPSK	23790	710	8.9356	9.487
QPSK	23800	711	8.9405	9.488
16QAM	23780	709	8.9348	9.488
16QAM	23790	710	8.9294	9.485
16QAM	23800	711	8.9355	9.492

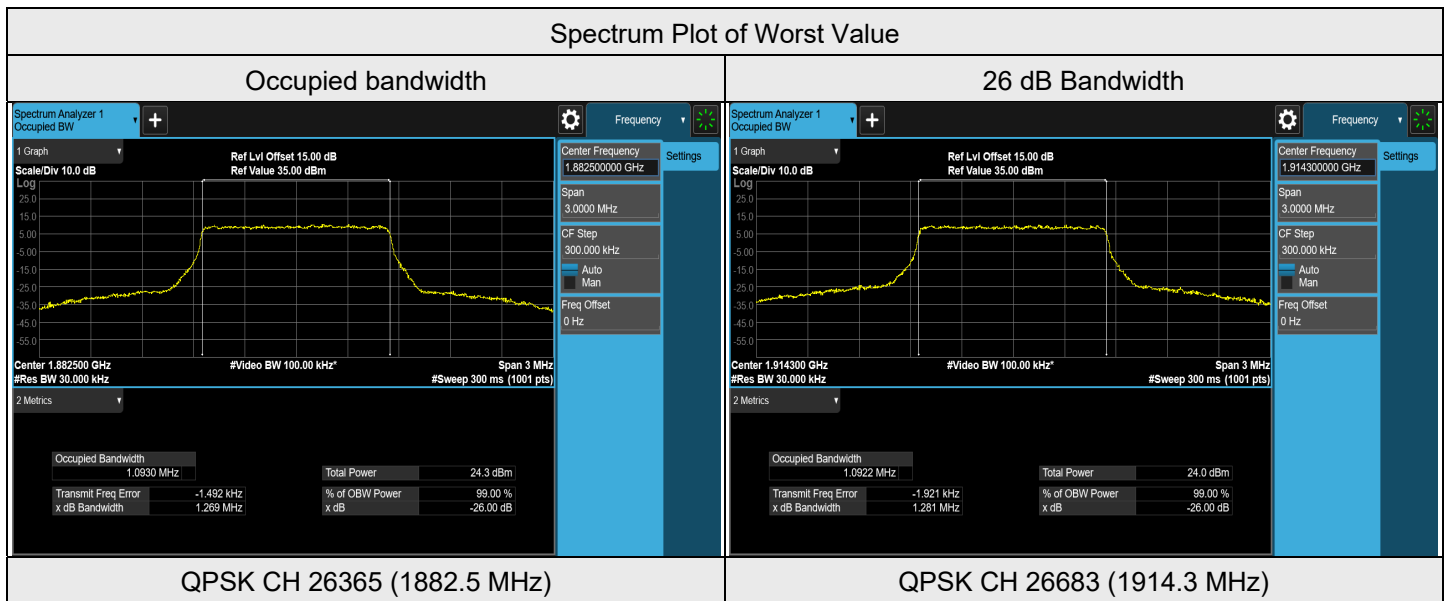
Spectrum Plot of Worst Value



7.4.9 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	1.0871	1.257
QPSK	26365	1882.5	1.0930	1.269
QPSK	26683	1914.3	1.0922	1.281
16QAM	26047	1850.7	1.0893	1.259
16QAM	26365	1882.5	1.0888	1.255
16QAM	26683	1914.3	1.0889	1.257

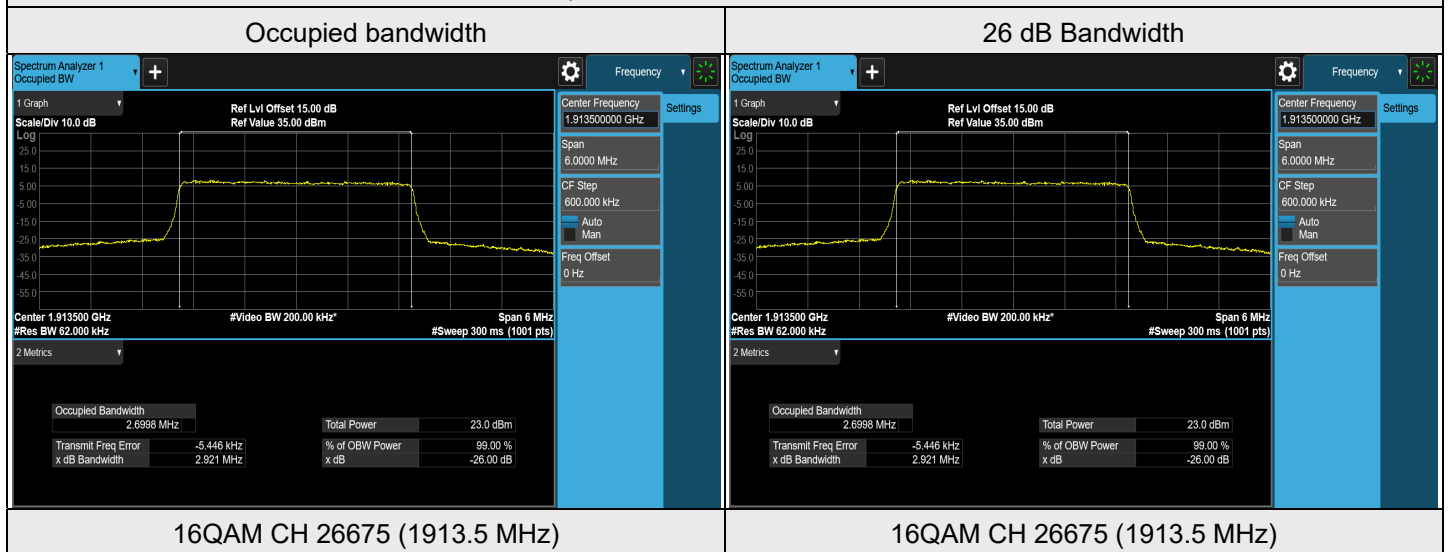




LTE Band 25, Channel Bandwidth: 3 MHz

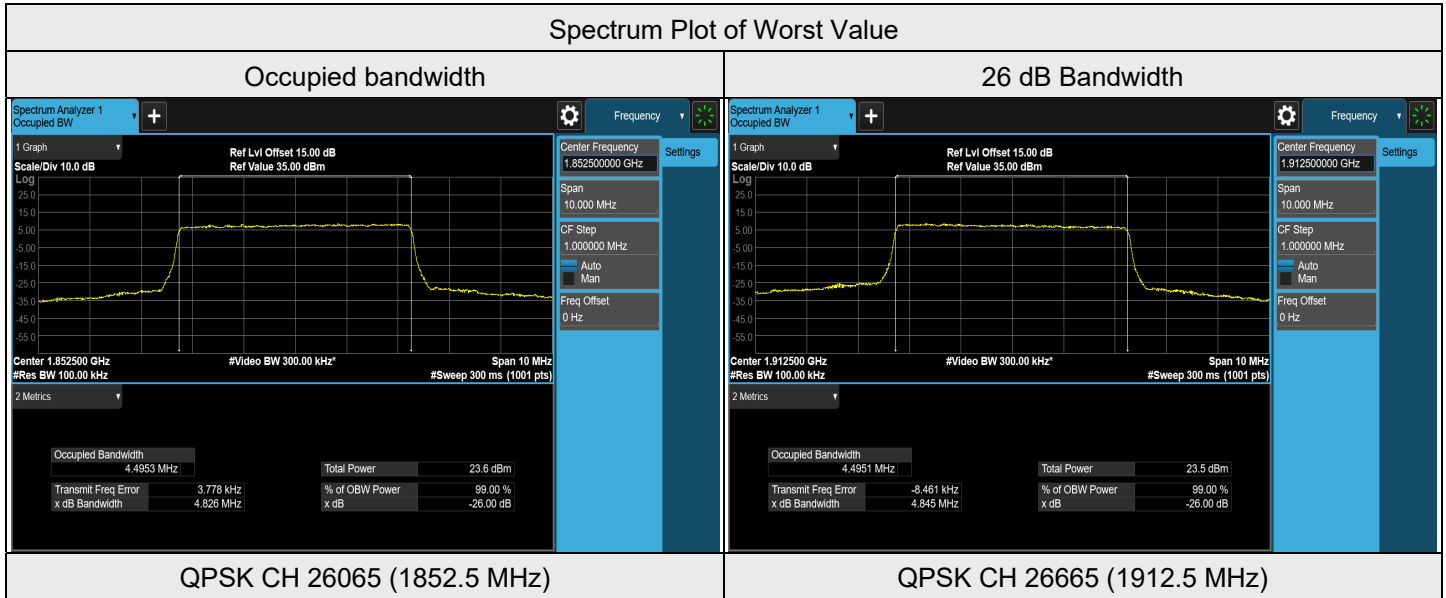
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26055	1851.5	2.6964	2.911
QPSK	26365	1882.5	2.6976	2.919
QPSK	26675	1913.5	2.6994	2.914
16QAM	26055	1851.5	2.6994	2.919
16QAM	26365	1882.5	2.6978	2.919
16QAM	26675	1913.5	2.6998	2.921

Spectrum Plot of Worst Value



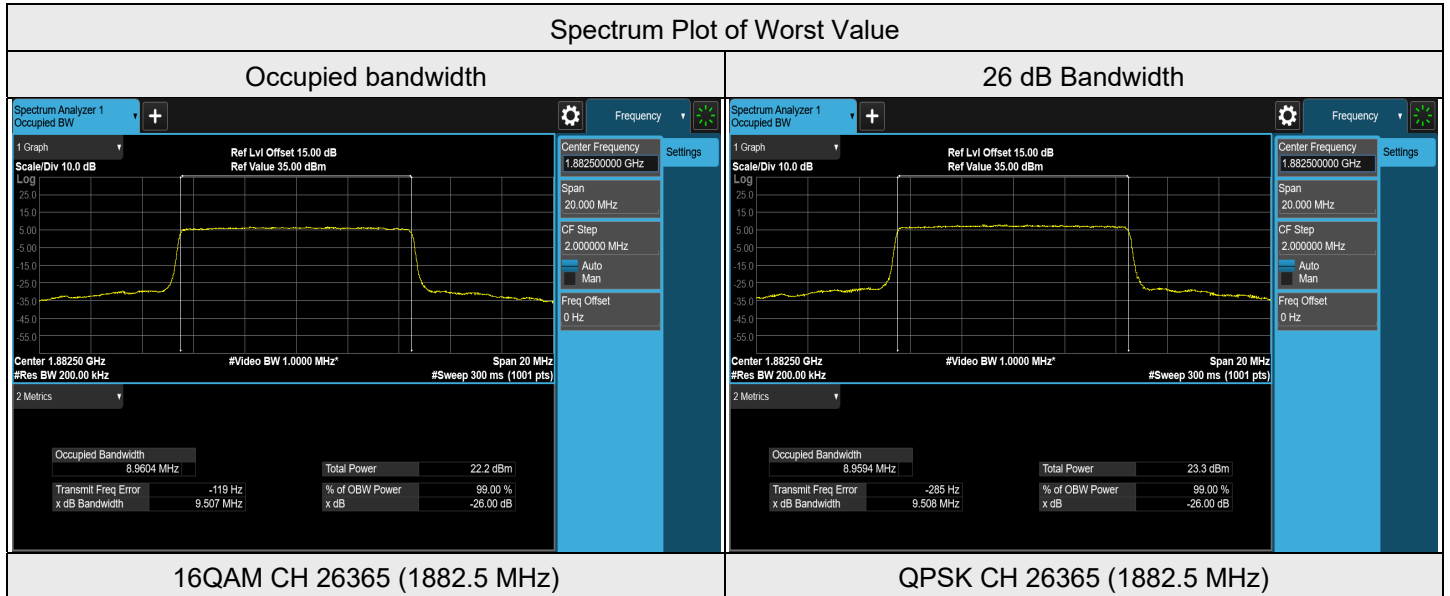
LTE Band 25, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26065	1852.5	4.4953	4.826
QPSK	26365	1882.5	4.4953	4.821
QPSK	26665	1912.5	4.4951	4.845
16QAM	26065	1852.5	4.4903	4.811
16QAM	26365	1882.5	4.4927	4.821
16QAM	26665	1912.5	4.4917	4.803



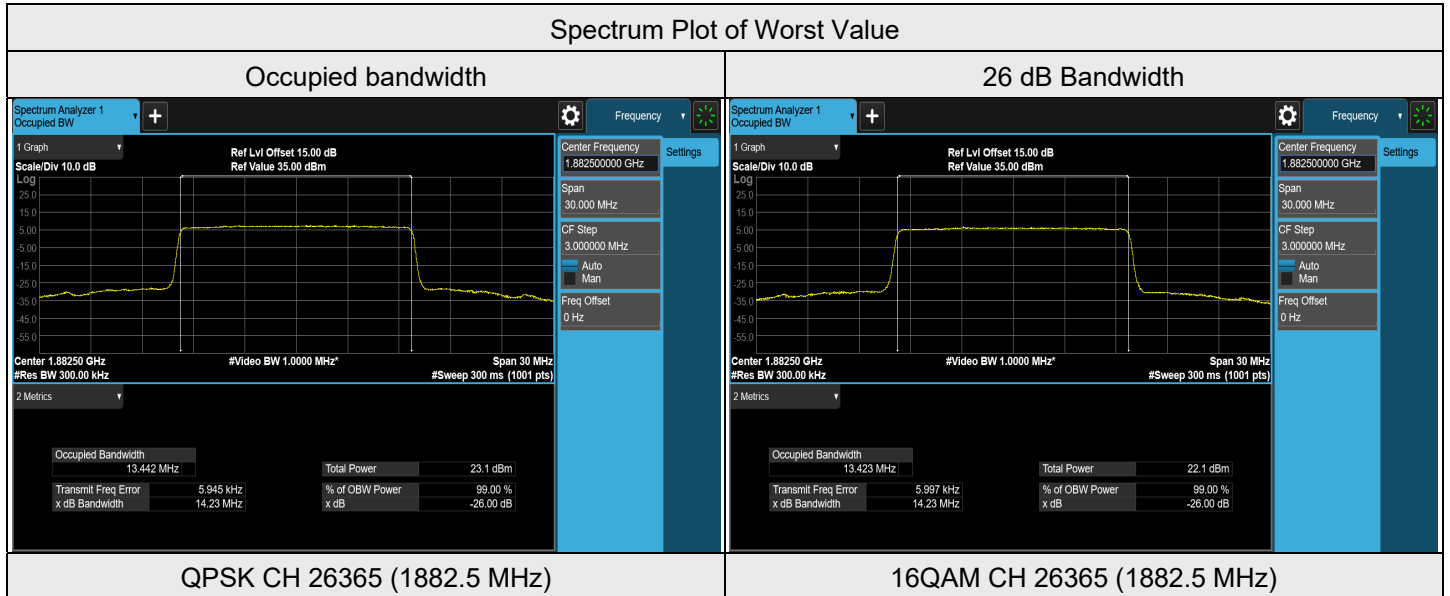
LTE Band 25, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26090	1855	8.9437	9.503
QPSK	26365	1882.5	8.9594	9.508
QPSK	26640	1910	8.9386	9.492
16QAM	26090	1855	8.9448	9.499
16QAM	26365	1882.5	8.9604	9.507
16QAM	26640	1910	8.9351	9.499



LTE Band 25, Channel Bandwidth: 15 MHz

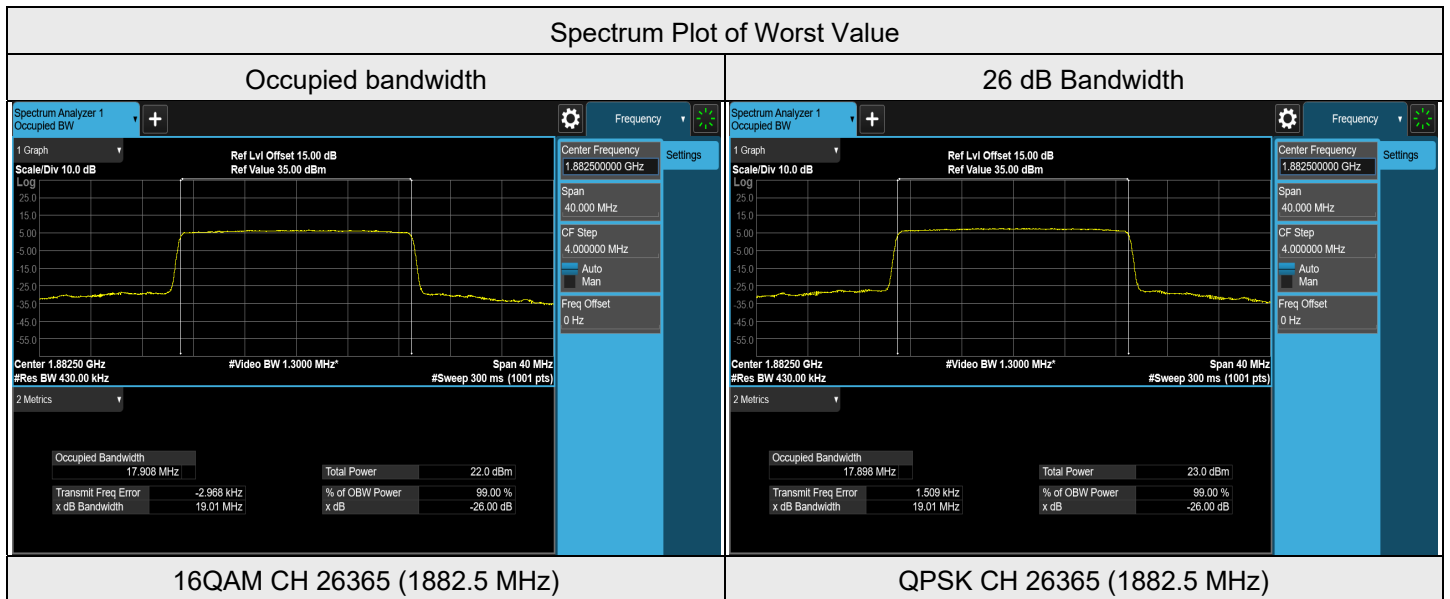
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26115	1857.5	13.3945	14.193
QPSK	26365	1882.5	13.4420	14.226
QPSK	26615	1907.5	13.3943	14.190
16QAM	26115	1857.5	13.3877	14.195
16QAM	26365	1882.5	13.4233	14.229
16QAM	26615	1907.5	13.3819	14.204





LTE Band 25, Channel Bandwidth: 20 MHz

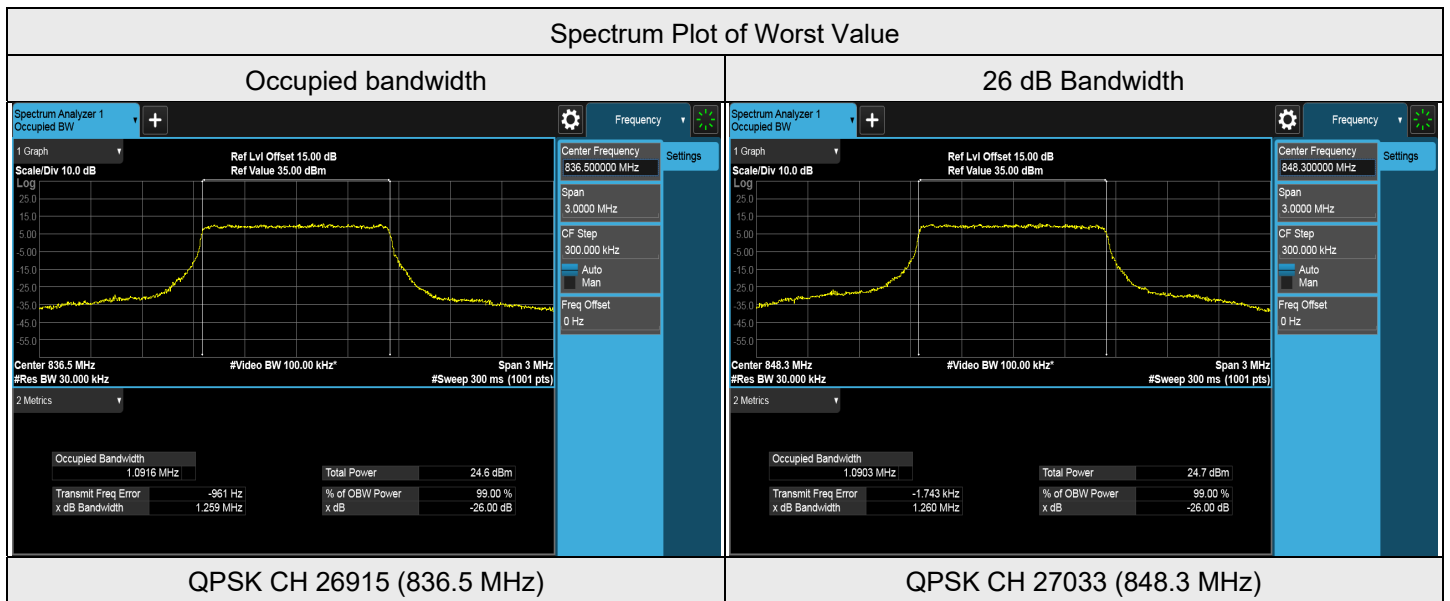
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26140	1860	17.8188	18.970
QPSK	26365	1882.5	17.8984	19.014
QPSK	26590	1905	17.8578	18.993
16QAM	26140	1860	17.8352	18.972
16QAM	26365	1882.5	17.9081	19.009
16QAM	26590	1905	17.8611	18.986



7.4.10 LTE Band 26 (Part 22)

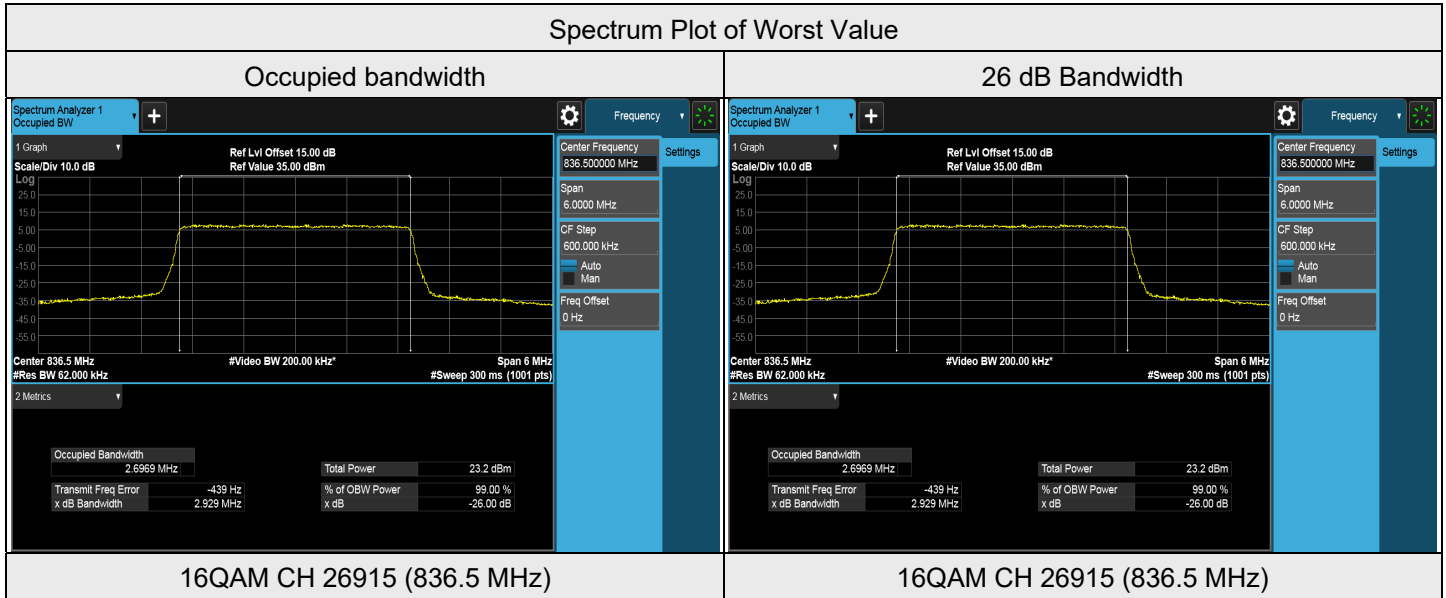
LTE Band 26, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26797	824.7	1.0895	1.252
QPSK	26915	836.5	1.0916	1.259
QPSK	27033	848.3	1.0903	1.260
16QAM	26797	824.7	1.0878	1.243
16QAM	26915	836.5	1.0878	1.247
16QAM	27033	848.3	1.0882	1.246



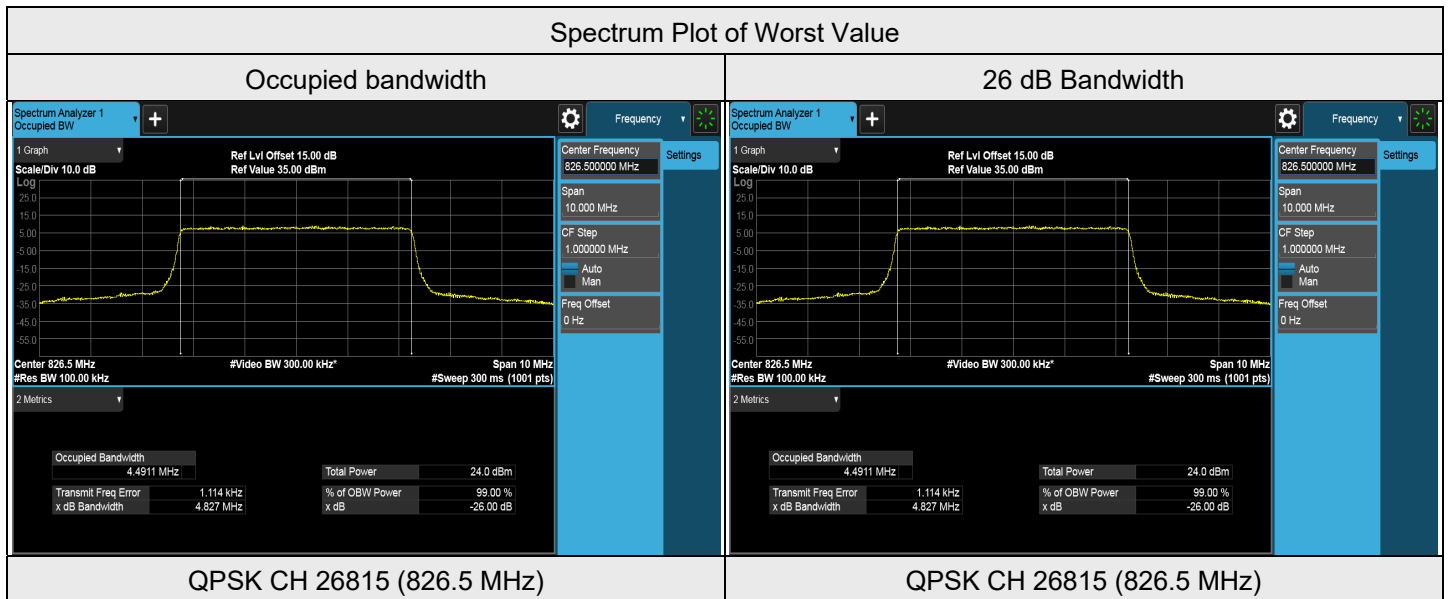
LTE Band 26, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26805	825.5	2.6954	2.916
QPSK	26915	836.5	2.6952	2.916
QPSK	27025	847.5	2.6950	2.917
16QAM	26805	825.5	2.6964	2.928
16QAM	26915	836.5	2.6969	2.929
16QAM	27025	847.5	2.6937	2.910



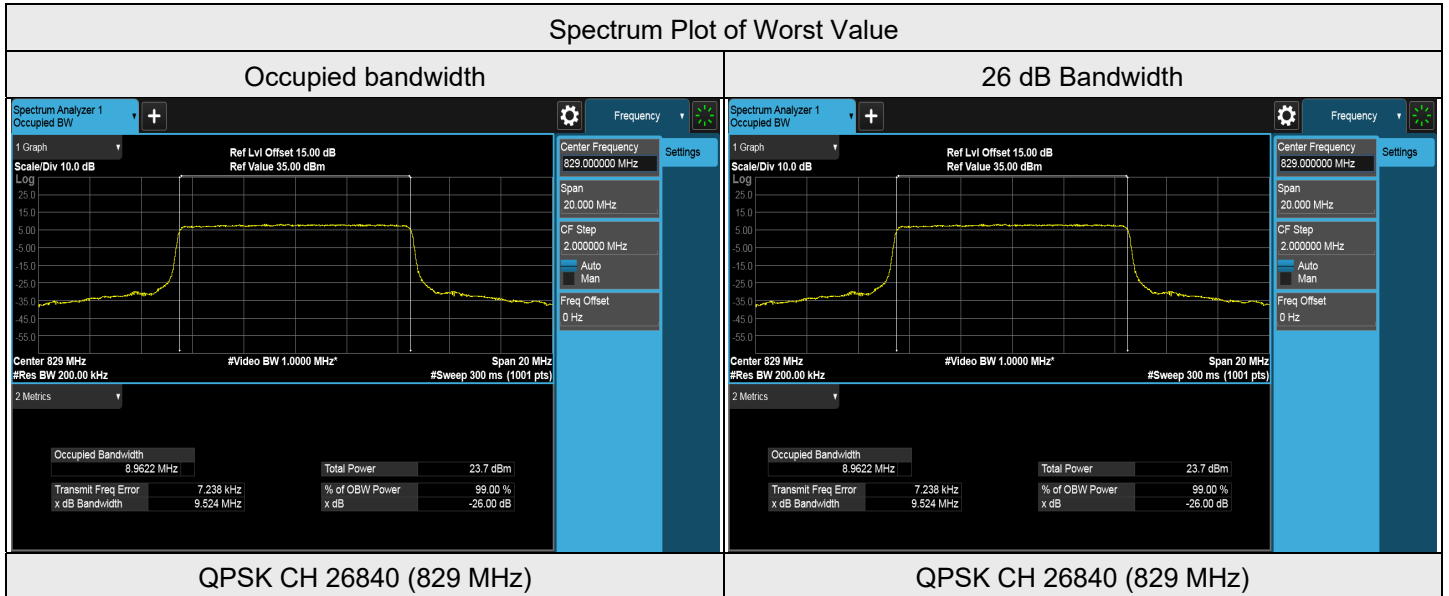
LTE Band 26, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26815	826.5	4.4911	4.827
QPSK	26915	836.5	4.4884	4.814
QPSK	27015	846.5	4.4872	4.815
16QAM	26815	826.5	4.4902	4.821
16QAM	26915	836.5	4.4886	4.823
16QAM	27015	846.5	4.4822	4.795



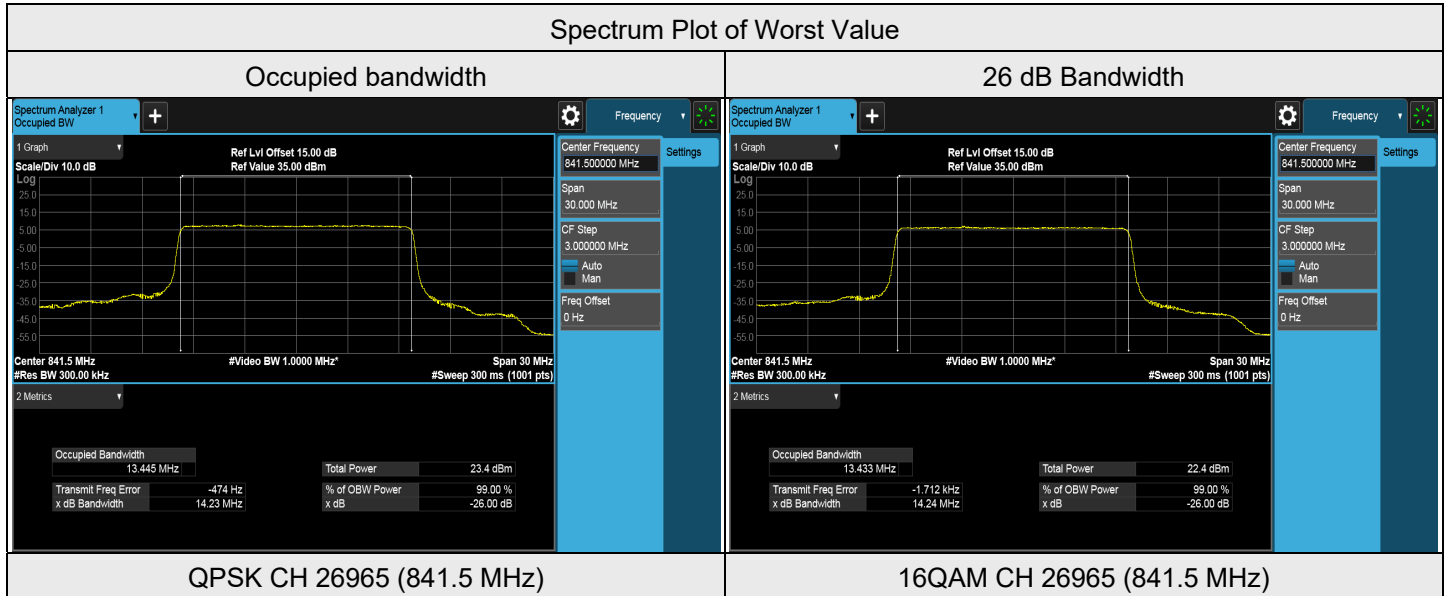
LTE Band 26, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26840	829	8.9622	9.524
QPSK	26915	836.5	8.9502	9.493
QPSK	26990	844	8.9540	9.519
16QAM	26840	829	8.9597	9.523
16QAM	26915	836.5	8.9522	9.504
16QAM	26990	844	8.9518	9.519



LTE Band 26, Channel Bandwidth: 15 MHz

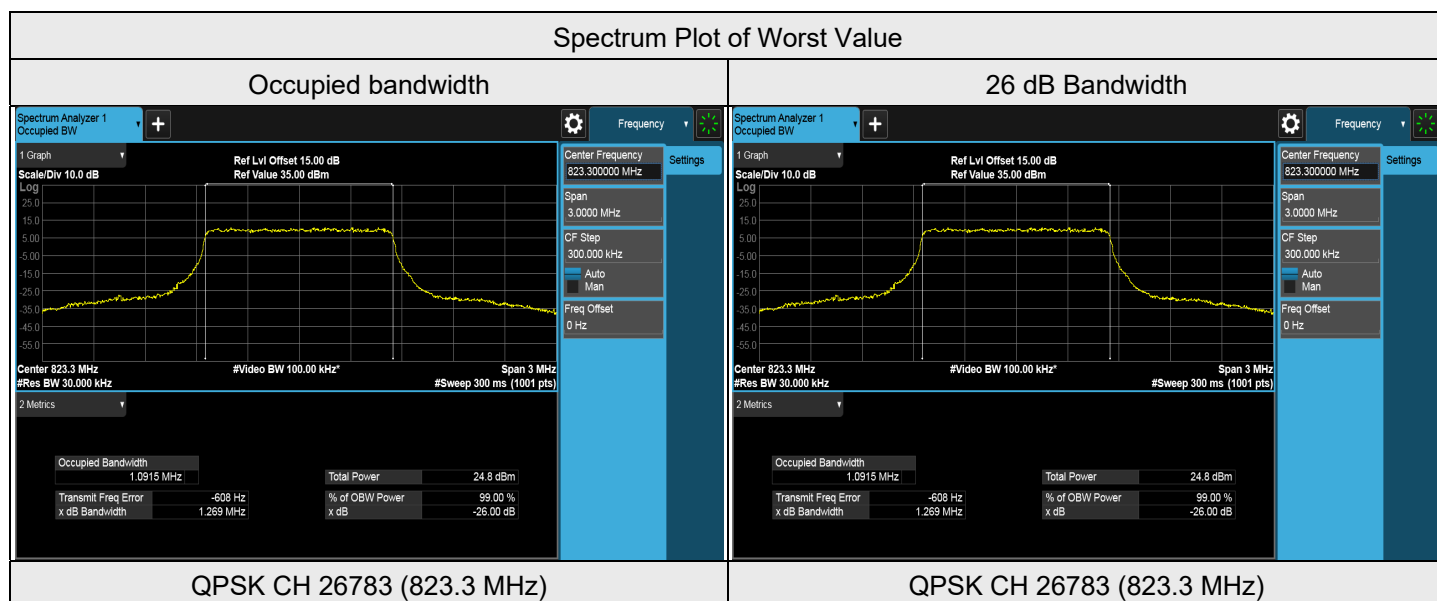
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26865	831.5	13.4313	14.228
QPSK	26915	836.5	13.4266	14.218
QPSK	26965	841.5	13.4447	14.225
16QAM	26865	831.5	13.4213	14.227
16QAM	26915	836.5	13.4172	14.221
16QAM	26965	841.5	13.4334	14.243



7.4.11 LTE Band 26 (Part 90)

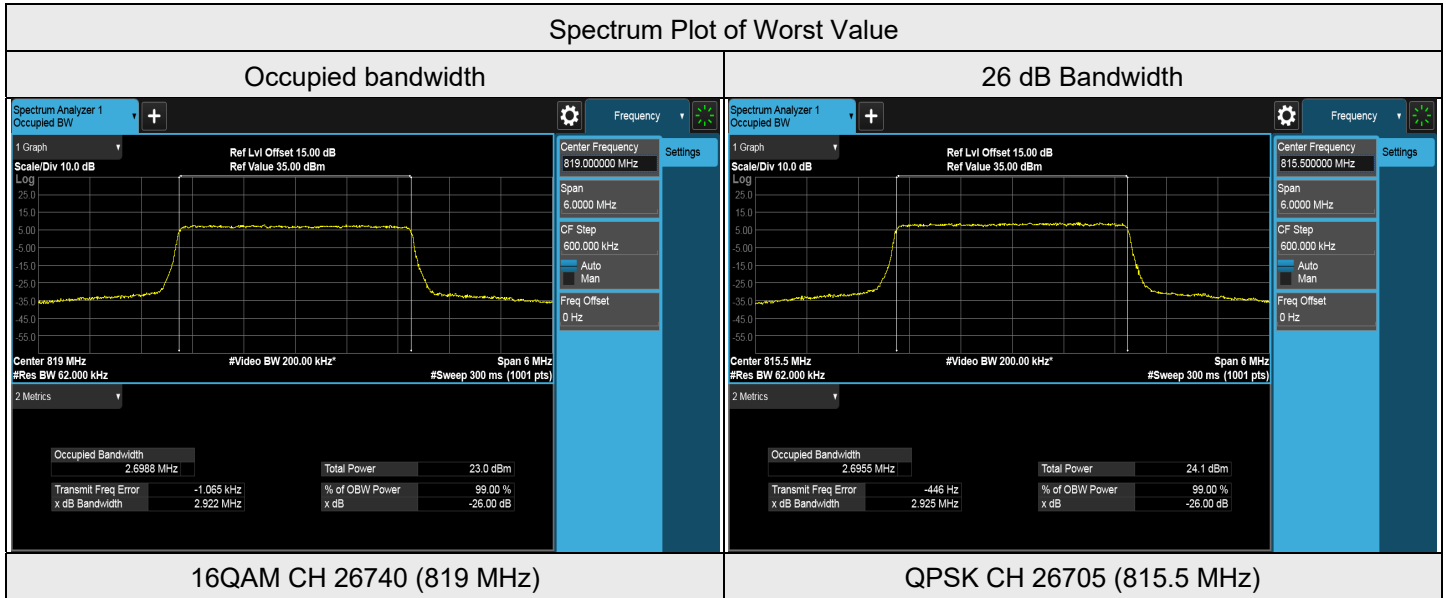
LTE Band 26, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26697	814.7	1.0874	1.256
QPSK	26740	819	1.0912	1.259
QPSK	26783	823.3	1.0915	1.269
16QAM	26697	814.7	1.0891	1.244
16QAM	26740	819	1.0891	1.252
16QAM	26783	823.3	1.0883	1.251



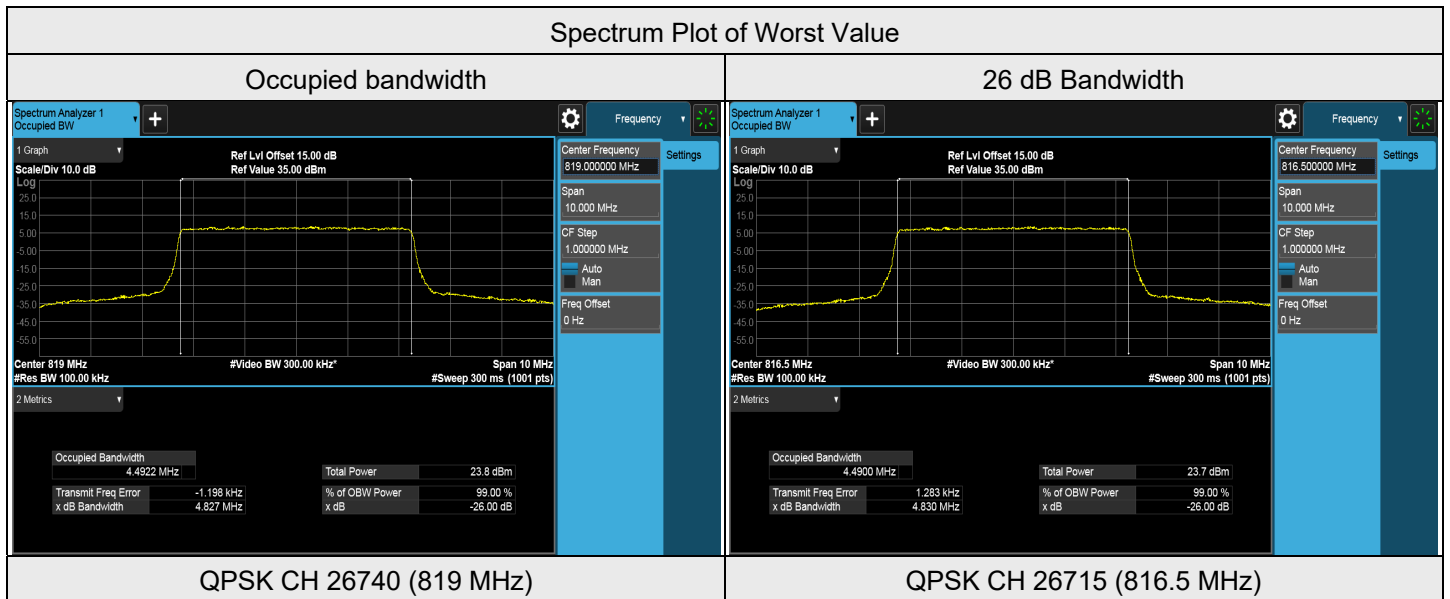
LTE Band 26, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26705	815.5	2.6955	2.925
QPSK	26740	819	2.6967	2.921
QPSK	26775	822.5	2.6963	2.923
16QAM	26705	815.5	2.6974	2.917
16QAM	26740	819	2.6988	2.922
16QAM	26775	822.5	2.6984	2.922



LTE Band 26, Channel Bandwidth: 5 MHz

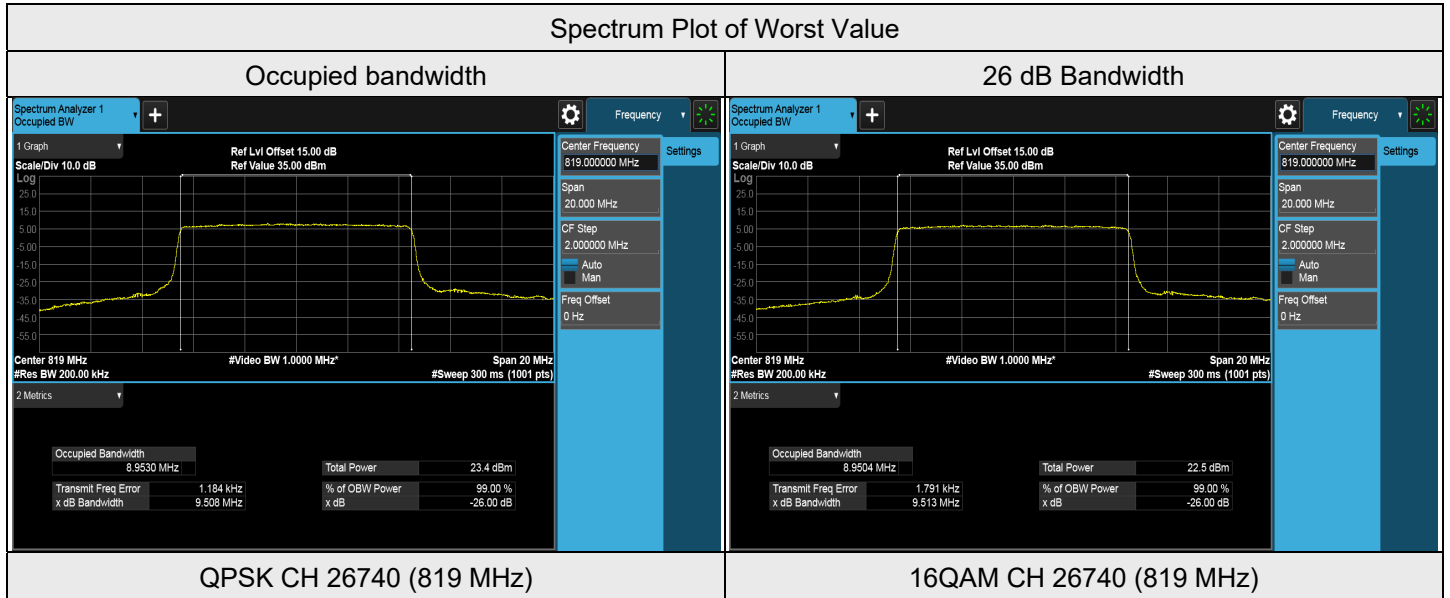
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26715	816.5	4.4900	4.830
QPSK	26740	819	4.4922	4.827
QPSK	26765	821.5	4.4915	4.824
16QAM	26715	816.5	4.4883	4.804
16QAM	26740	819	4.4901	4.811
16QAM	26765	821.5	4.4884	4.816





LTE Band 26, Channel Bandwidth: 10 MHz

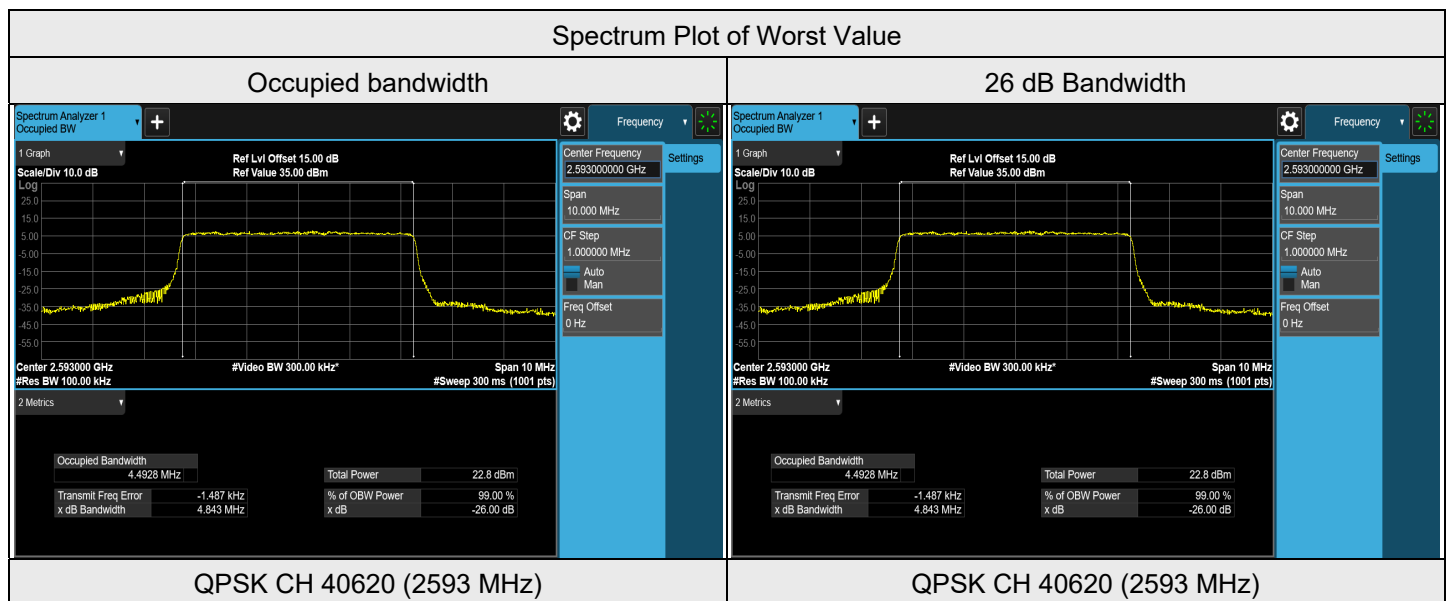
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26740	819	8.9530	9.508
16QAM	26740	819	8.9504	9.513



7.4.12 LTE Band 41

LTE Band 41, Channel Bandwidth: 5 MHz

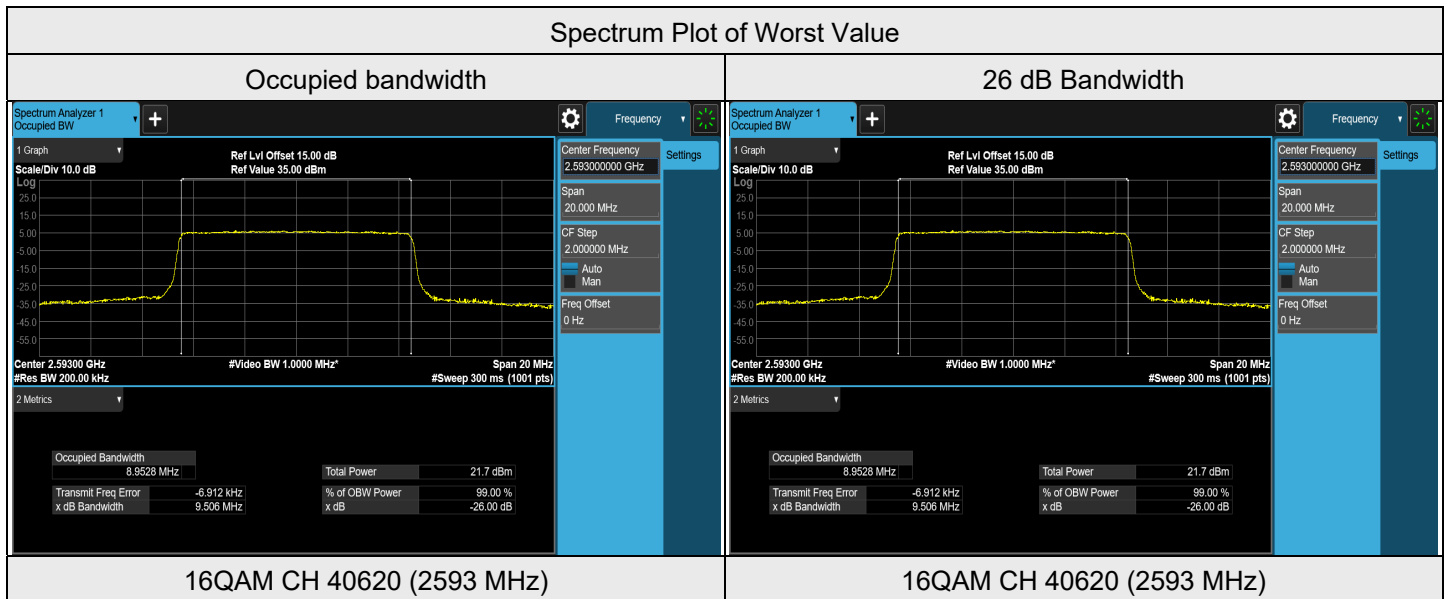
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	39675	2498.5	4.4894	4.798
QPSK	40620	2593	4.4928	4.843
QPSK	41565	2687.5	4.4925	4.823
16QAM	39675	2498.5	4.4874	4.803
16QAM	40620	2593	4.4875	4.795
16QAM	41565	2687.5	4.4842	4.810





LTE Band 41, Channel Bandwidth: 10 MHz

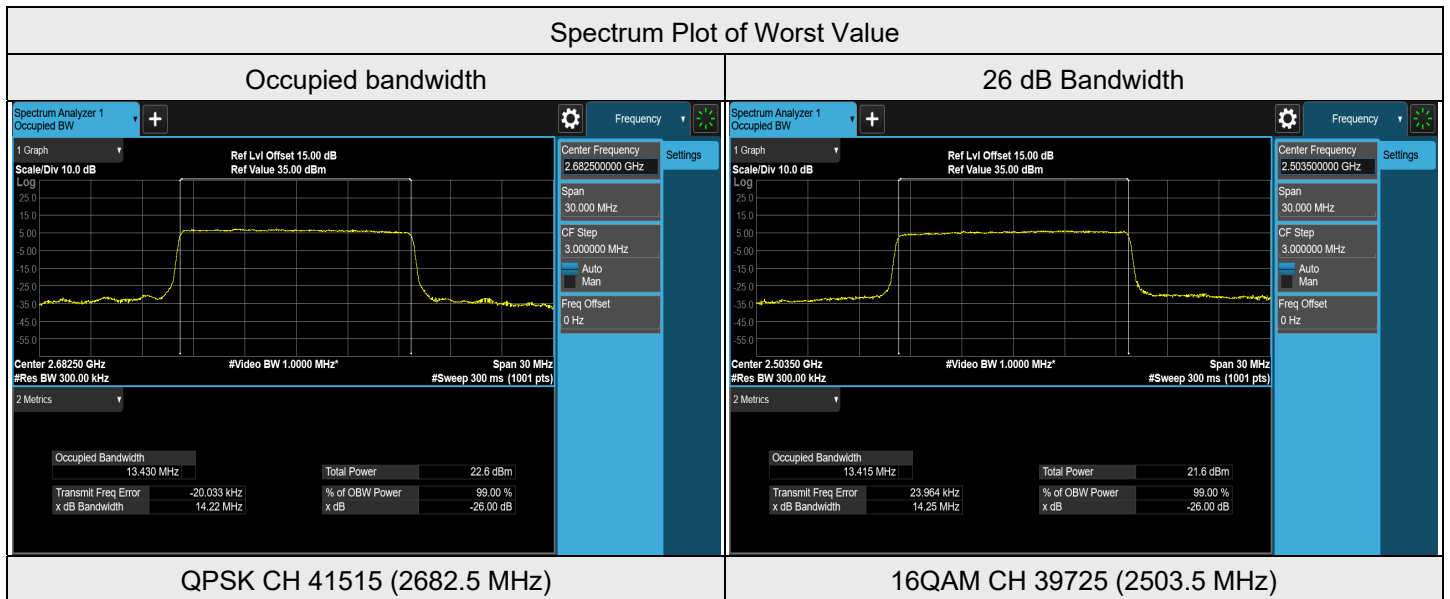
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	39700	2501	8.9462	9.501
QPSK	40620	2593	8.9495	9.497
QPSK	41540	2685	8.9458	9.503
16QAM	39700	2501	8.9513	9.500
16QAM	40620	2593	8.9528	9.506
16QAM	41540	2685	8.9465	9.501





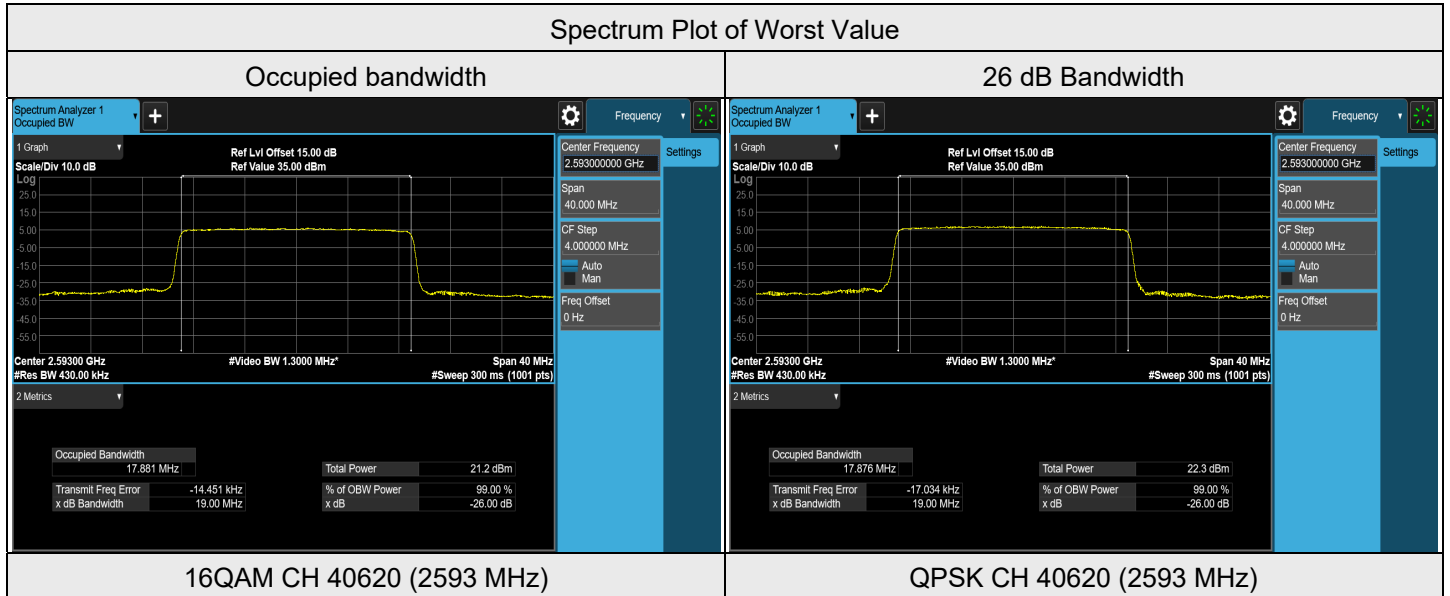
LTE Band 41, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	39725	2503.5	13.4077	14.239
QPSK	40620	2593	13.4252	14.225
QPSK	41515	2682.5	13.4301	14.223
16QAM	39725	2503.5	13.4152	14.246
16QAM	40620	2593	13.4199	14.215
16QAM	41515	2682.5	13.4216	14.204



LTE Band 41, Channel Bandwidth: 20 MHz

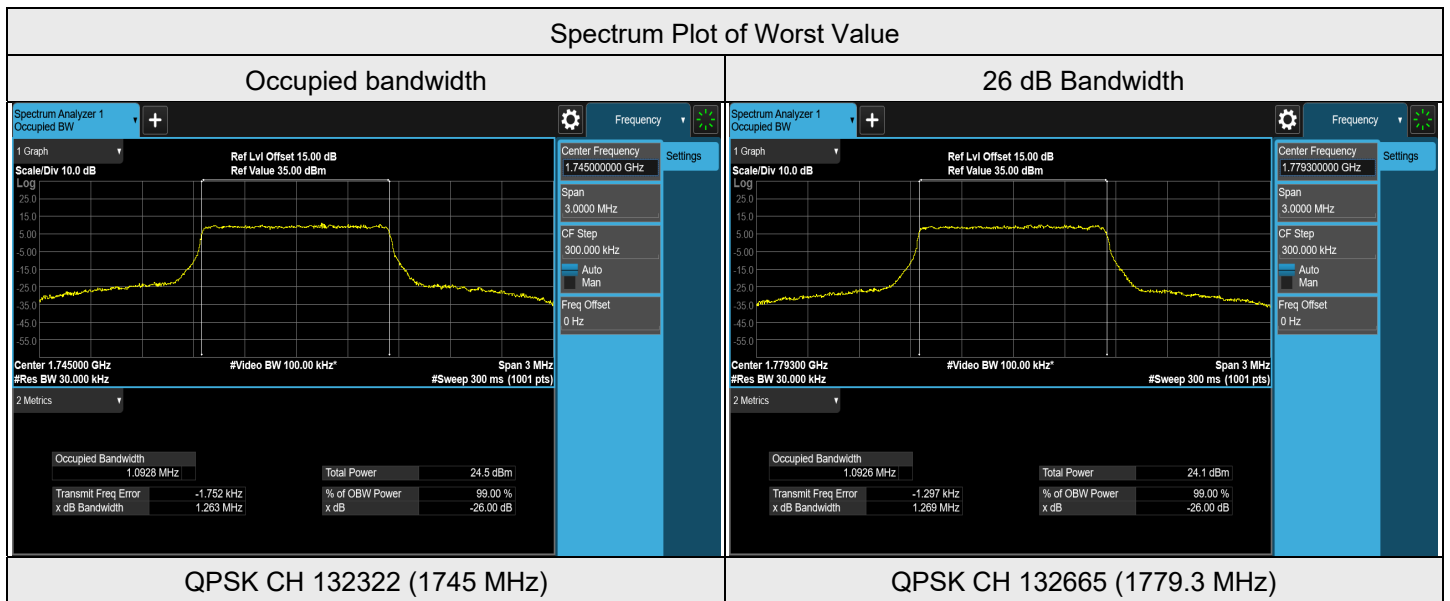
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	39750	2506	17.8479	18.971
QPSK	40620	2593	17.8759	19.004
QPSK	41490	2680	17.8722	18.984
16QAM	39750	2506	17.8609	18.985
16QAM	40620	2593	17.8813	18.998
16QAM	41490	2680	17.8713	18.973



7.4.13 LTE Band 66

LTE Band 66, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	131979	1710.7	1.0887	1.256
QPSK	132322	1745	1.0928	1.263
QPSK	132665	1779.3	1.0926	1.269
16QAM	131979	1710.7	1.0893	1.261
16QAM	132322	1745	1.0898	1.263
16QAM	132665	1779.3	1.0885	1.255

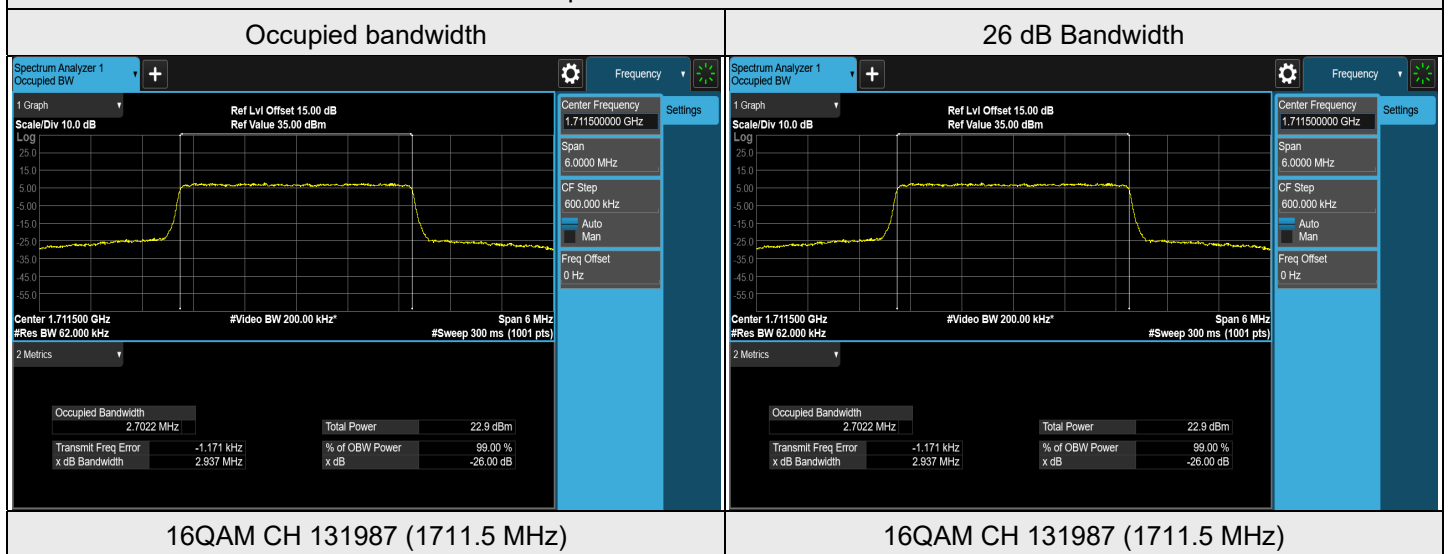




LTE Band 66, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	131987	1711.5	2.7015	2.926
QPSK	132322	1745	2.7014	2.920
QPSK	132657	1778.5	2.6990	2.916
16QAM	131987	1711.5	2.7022	2.937
16QAM	132322	1745	2.7016	2.933
16QAM	132657	1778.5	2.7001	2.927

Spectrum Plot of Worst Value

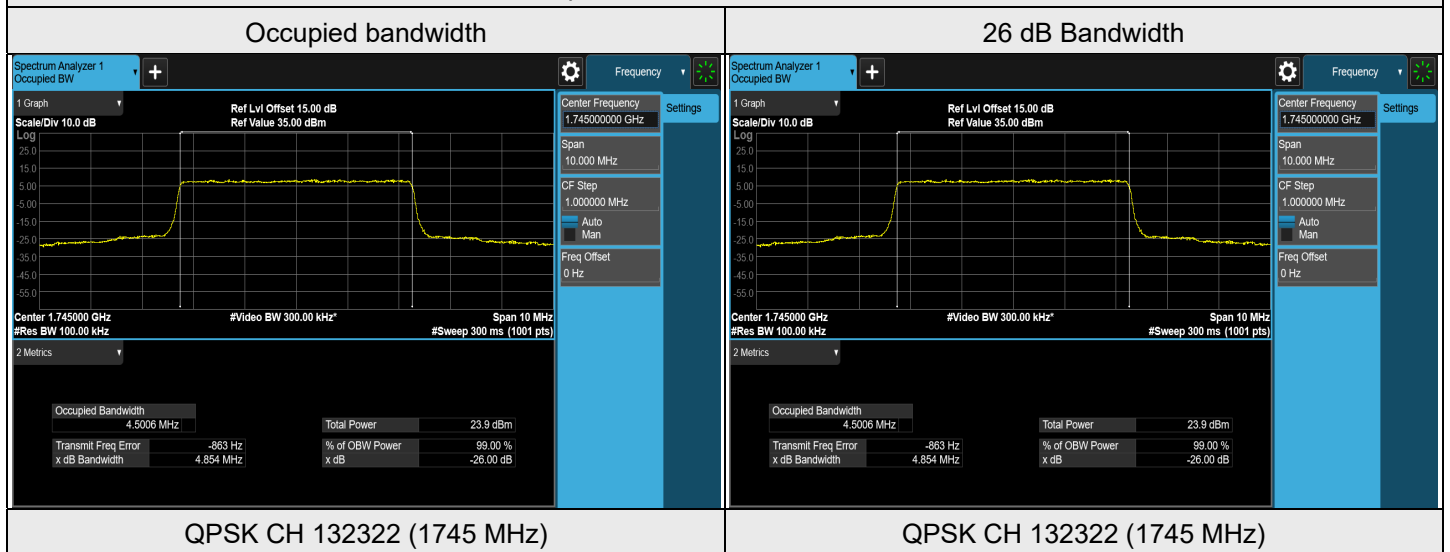




LTE Band 66, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	131997	1712.5	4.4994	4.843
QPSK	132322	1745	4.5006	4.854
QPSK	132647	1777.5	4.4984	4.842
16QAM	131997	1712.5	4.4967	4.844
16QAM	132322	1745	4.4958	4.826
16QAM	132647	1777.5	4.4953	4.822

Spectrum Plot of Worst Value

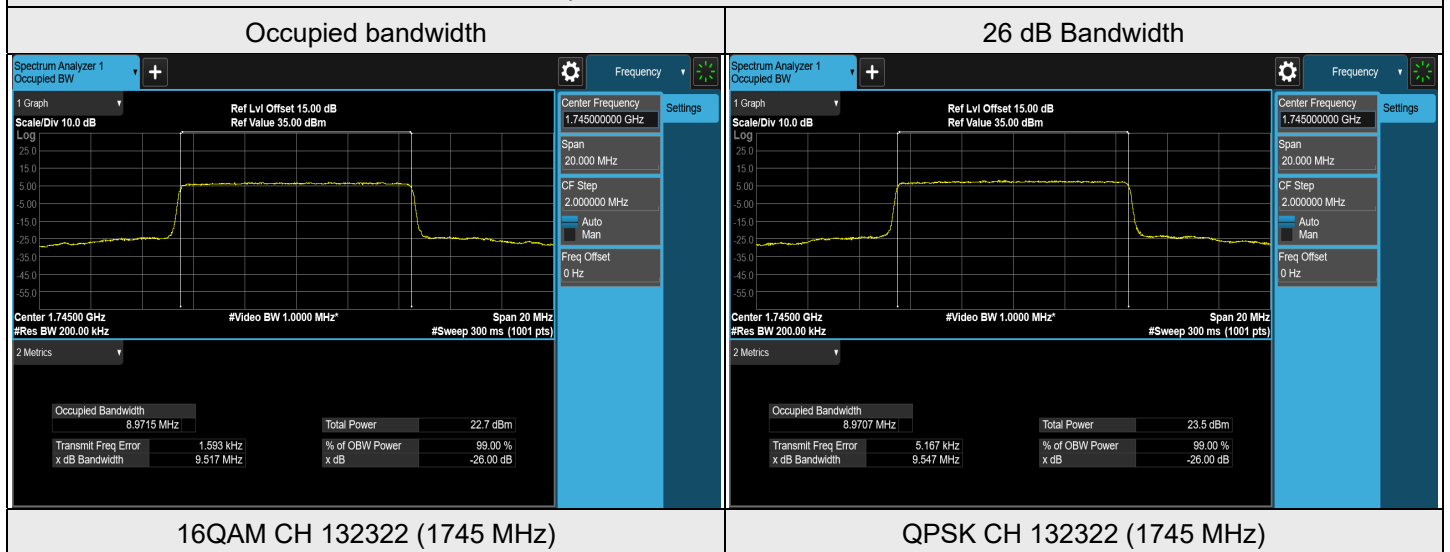




LTE Band 66, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	132022	1715	8.9647	9.517
QPSK	132322	1745	8.9707	9.547
QPSK	132622	1775	8.9675	9.518
16QAM	132022	1715	8.9680	9.541
16QAM	132322	1745	8.9715	9.517
16QAM	132622	1775	8.9650	9.519

Spectrum Plot of Worst Value

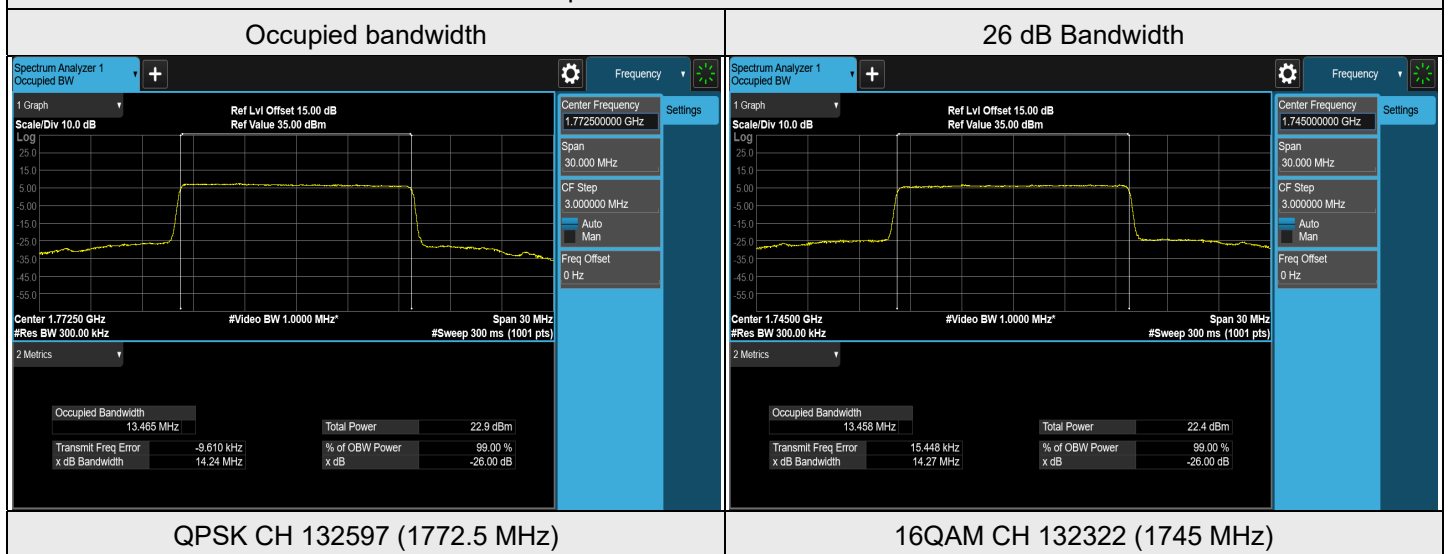




LTE Band 66, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	132047	1717.5	13.4447	14.219
QPSK	132322	1745	13.4622	14.260
QPSK	132597	1772.5	13.4651	14.237
16QAM	132047	1717.5	13.4297	14.244
16QAM	132322	1745	13.4581	14.266
16QAM	132597	1772.5	13.4540	14.250

Spectrum Plot of Worst Value

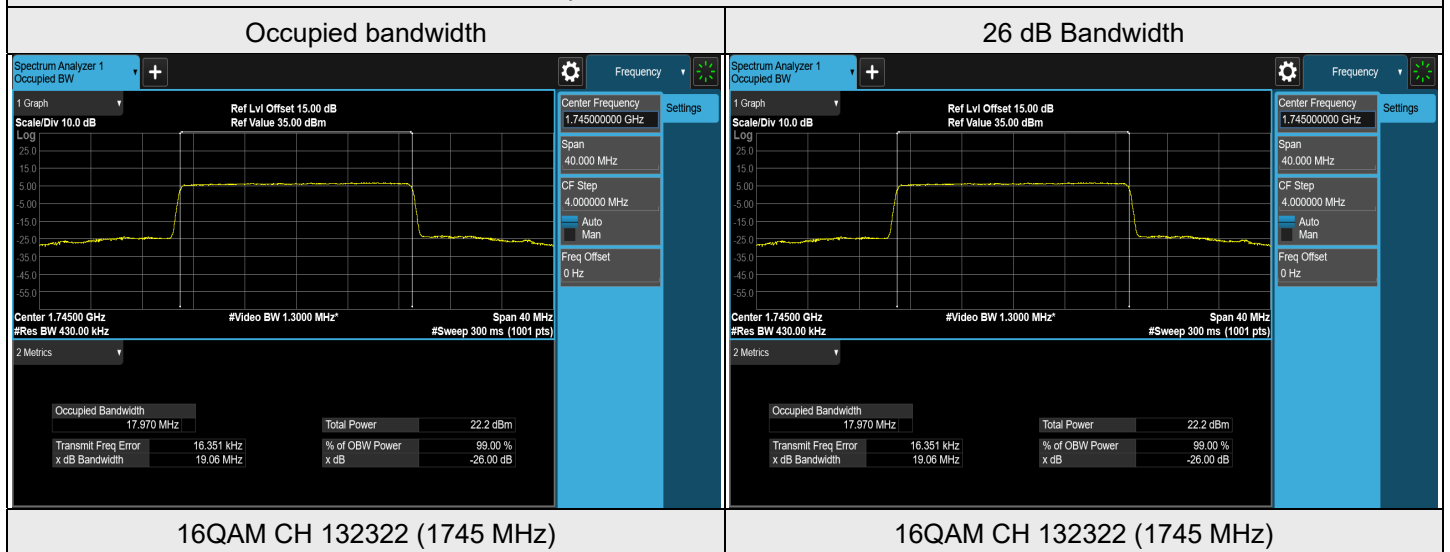




LTE Band 66, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	132072	1720	17.8649	19.000
QPSK	132322	1745	17.9683	19.056
QPSK	132572	1770	17.9219	19.008
16QAM	132072	1720	17.8833	18.995
16QAM	132322	1745	17.9705	19.063
16QAM	132572	1770	17.9360	18.999

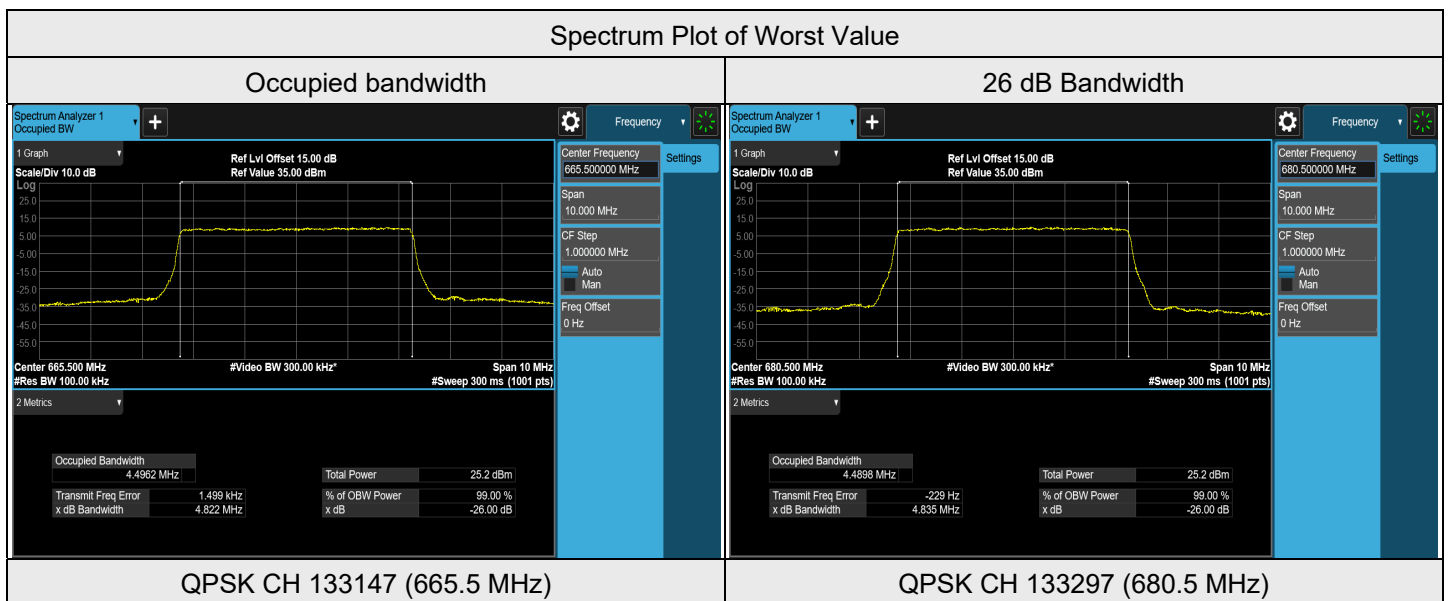
Spectrum Plot of Worst Value



7.4.14 LTE Band 71

LTE Band 71, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	133147	665.5	4.4962	4.822
QPSK	133297	680.5	4.4898	4.835
QPSK	133447	695.5	4.4934	4.832
16QAM	133147	665.5	4.4936	4.816
16QAM	133297	680.5	4.4887	4.813
16QAM	133447	695.5	4.4887	4.827

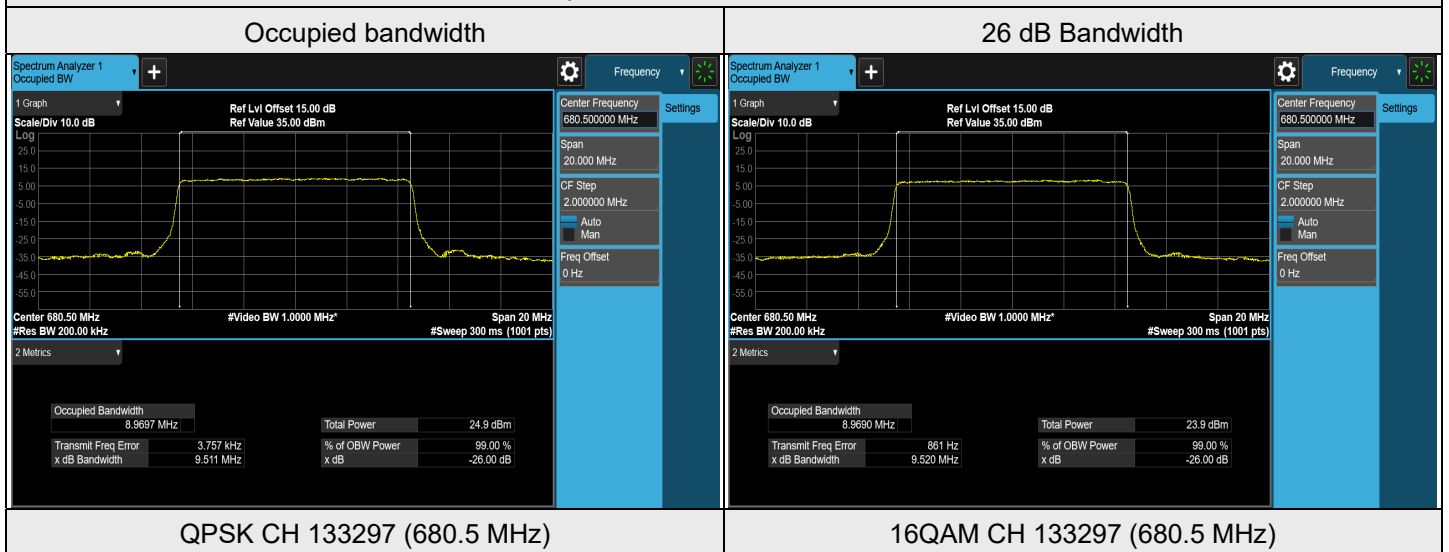




LTE Band 71, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	133172	668	8.9547	9.507
QPSK	133297	680.5	8.9697	9.511
QPSK	133422	693	8.9630	9.506
16QAM	133172	668	8.9566	9.500
16QAM	133297	680.5	8.9690	9.520
16QAM	133422	693	8.9605	9.518

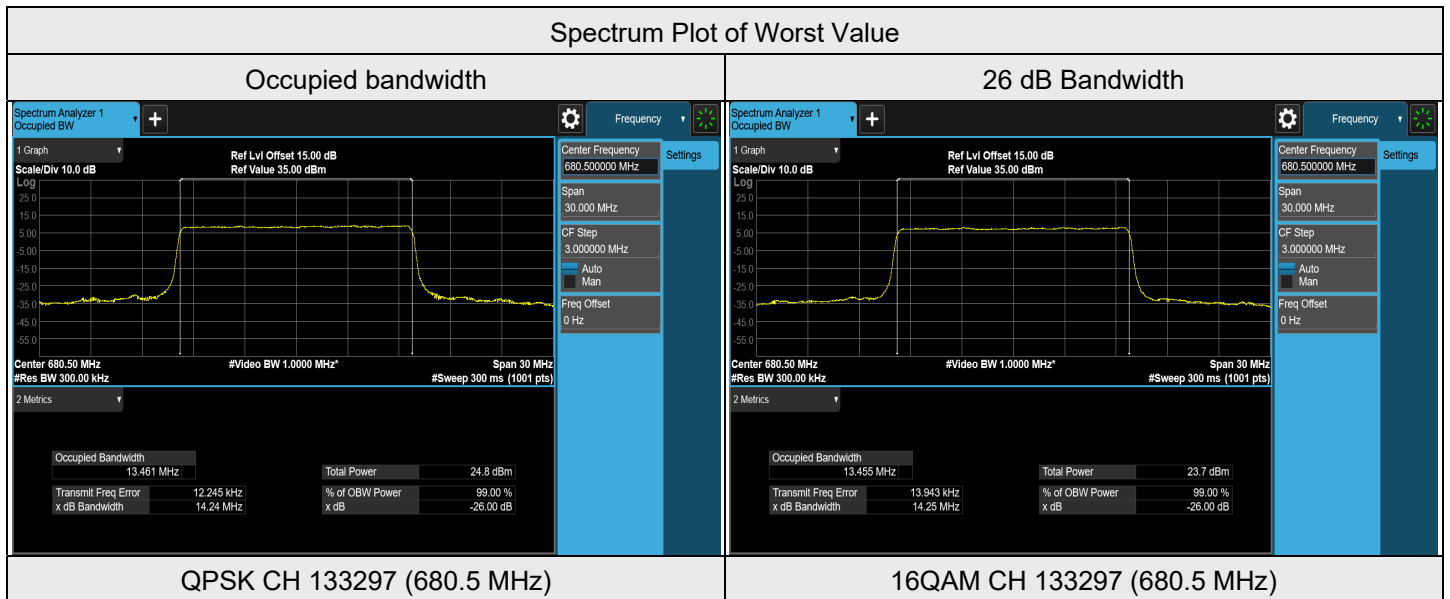
Spectrum Plot of Worst Value





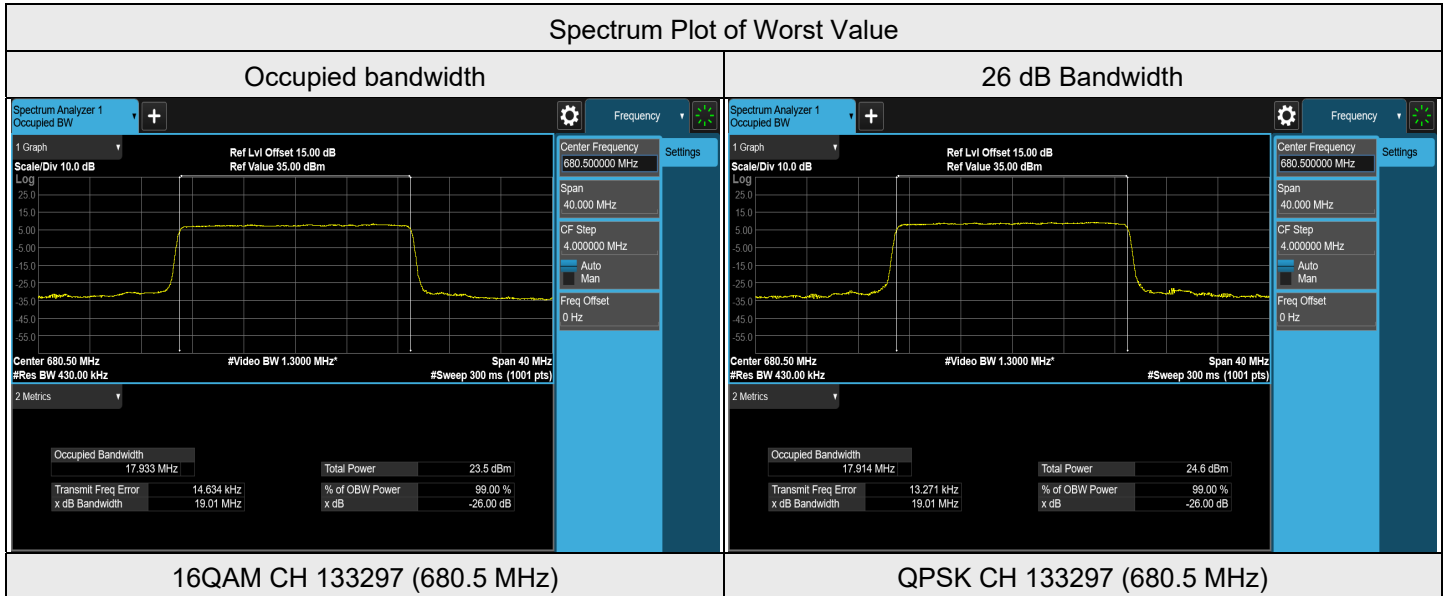
LTE Band 71, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	133197	670.5	13.4049	14.198
QPSK	133297	680.5	13.4607	14.237
QPSK	133397	690.5	13.4246	14.227
16QAM	133197	670.5	13.3955	14.196
16QAM	133297	680.5	13.4547	14.254
16QAM	133397	690.5	13.4166	14.214



LTE Band 71, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	133222	673	17.8373	18.967
QPSK	133297	680.5	17.9140	19.013
QPSK	133372	688	17.8327	18.961
16QAM	133222	673	17.8581	18.967
16QAM	133297	680.5	17.9332	19.008
16QAM	133372	688	17.8485	18.987



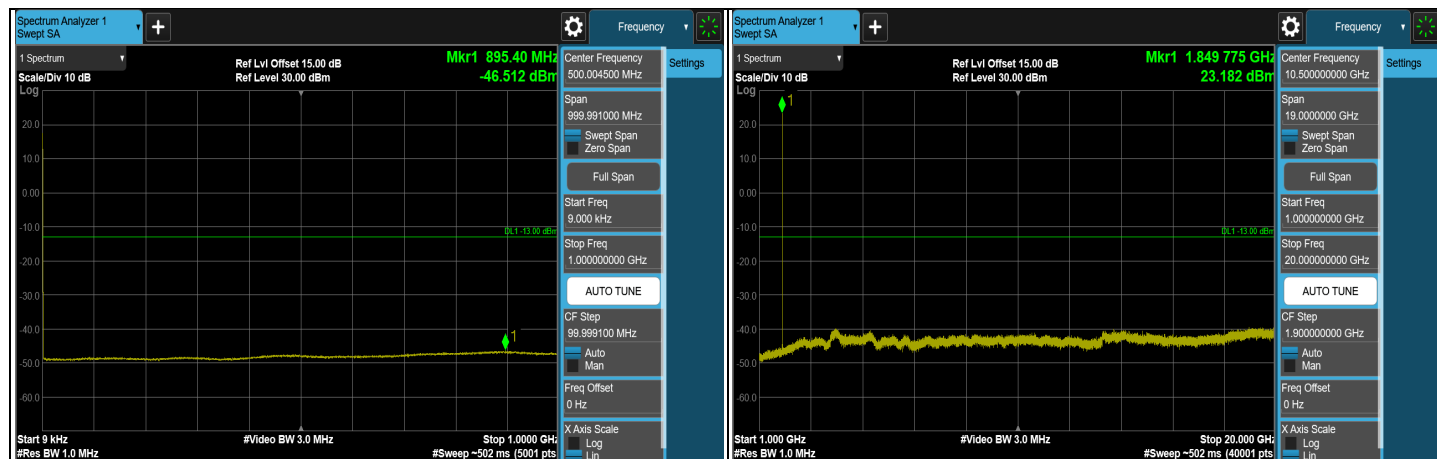


7.5 Conducted Spurious Emissions

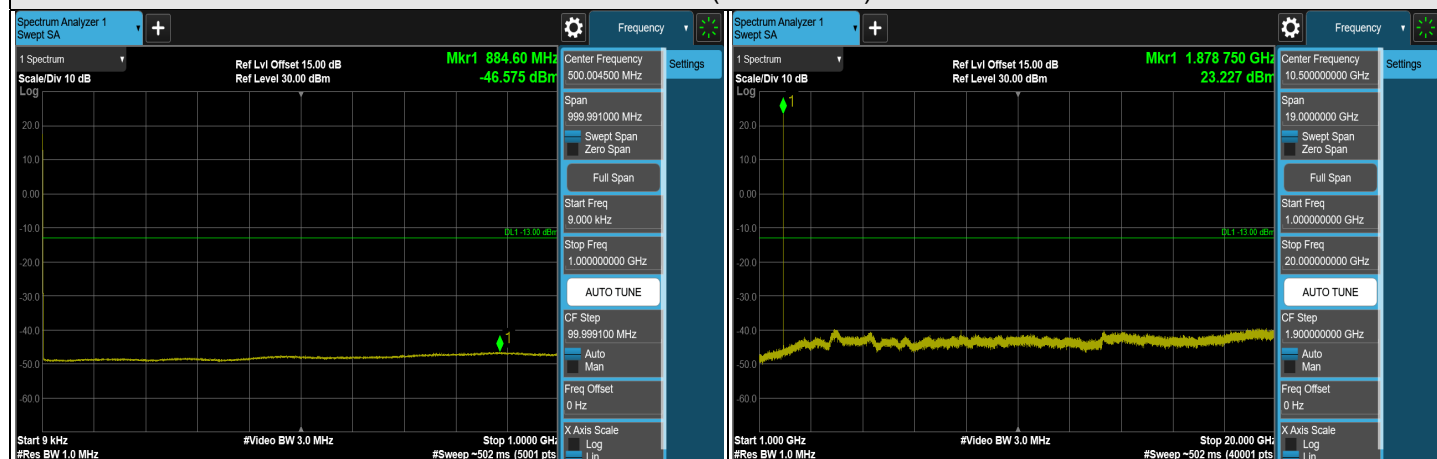
Input Power:	7.3 Vdc	Environmental Conditions:	22°C, 75% RH	Tested By:	Willy Cheng
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7.5.1 LTE Band 2

LTE Band 2, Channel Bandwidth: 1.4 MHz



CH 18607 (1850.7 MHz)

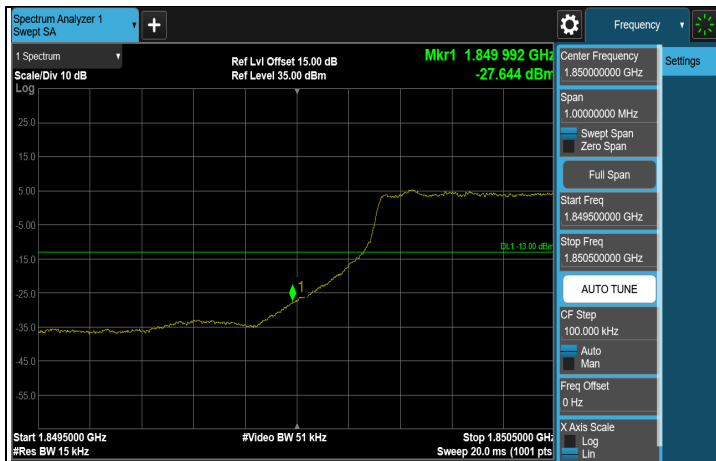


CH 18900 (1880 MHz)

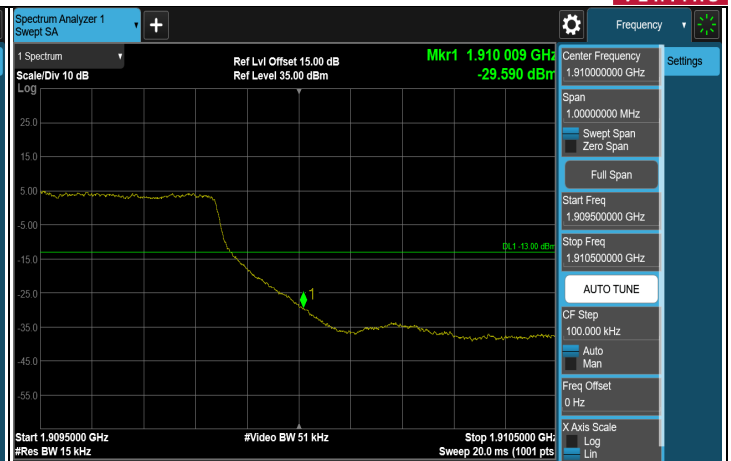


CH 19193 (1909.3 MHz)

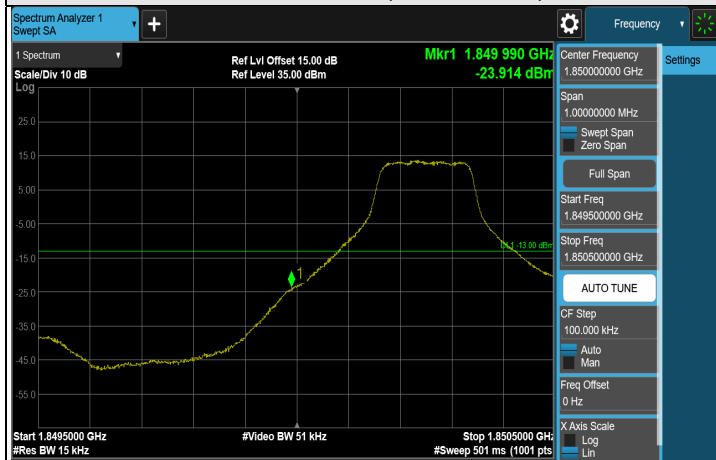
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



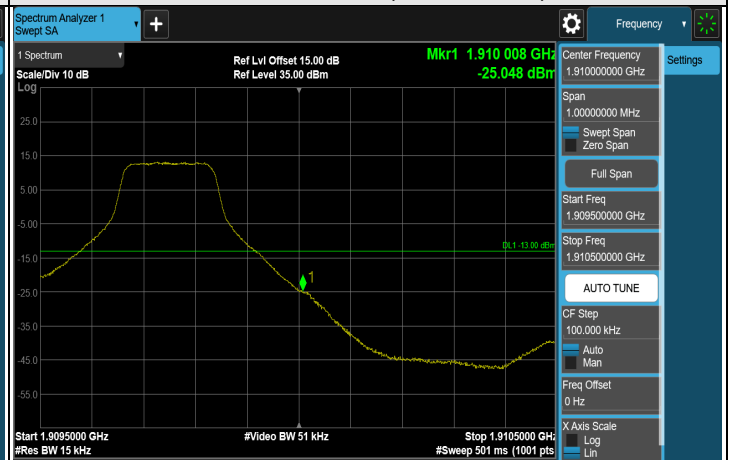
FULL CH 18607 (1850.7 MHz)



FULL CH 19193 (1909.3 MHz)



1RB CH 18607 (1850.7 MHz)



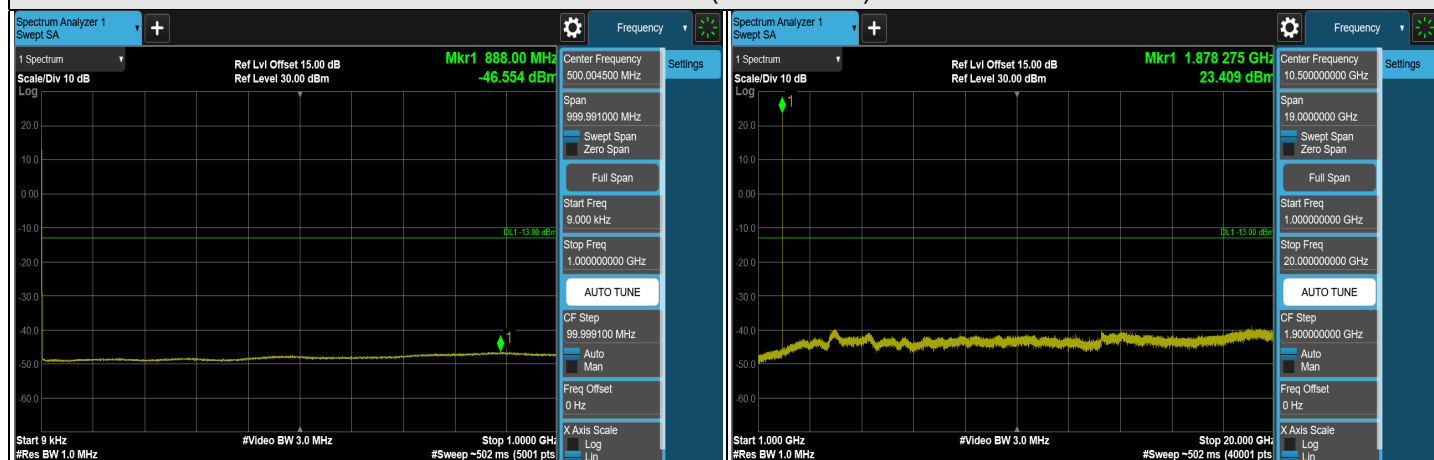
1RB CH 19193 (1909.3 MHz)



LTE Band 2, Channel Bandwidth: 3 MHz



CH 18615 (1851.5 MHz)

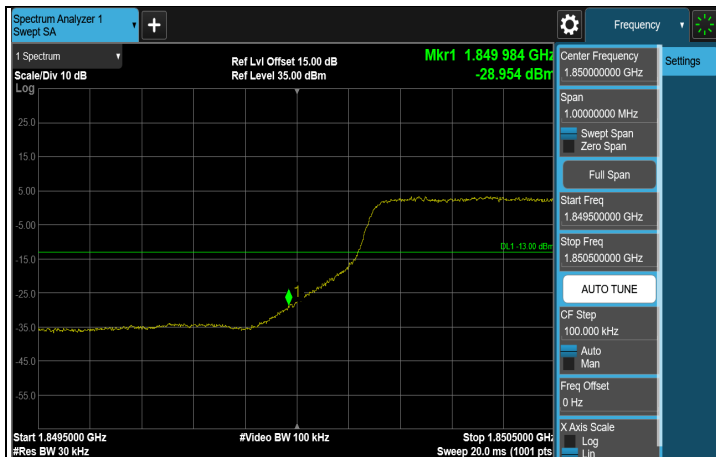


CH 18900 (1880 MHz)

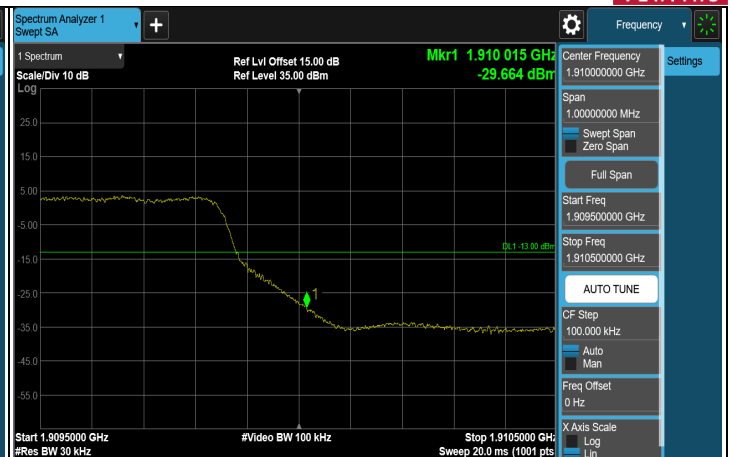


CH 19185 (1908.5 MHz)

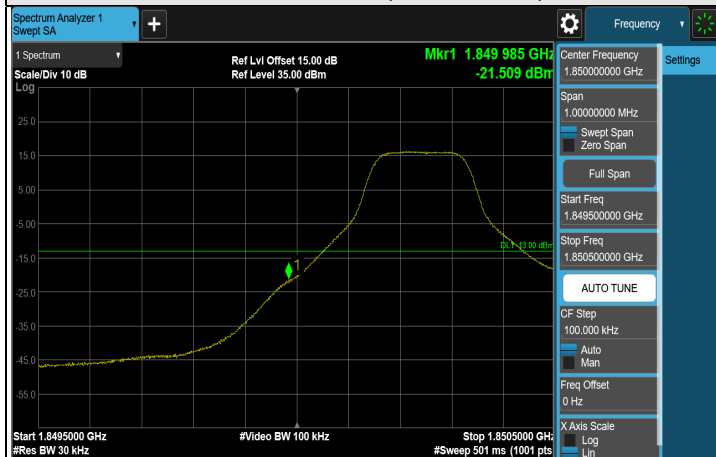
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



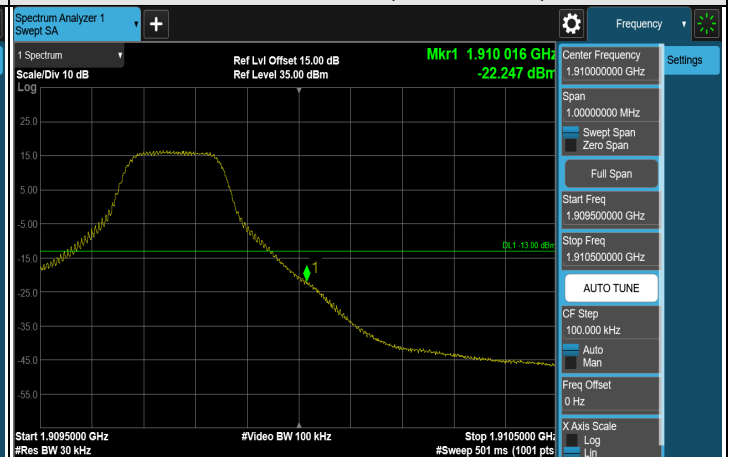
FULL CH 18615 (1851.5 MHz)



FULL CH 19185 (1908.5 MHz)



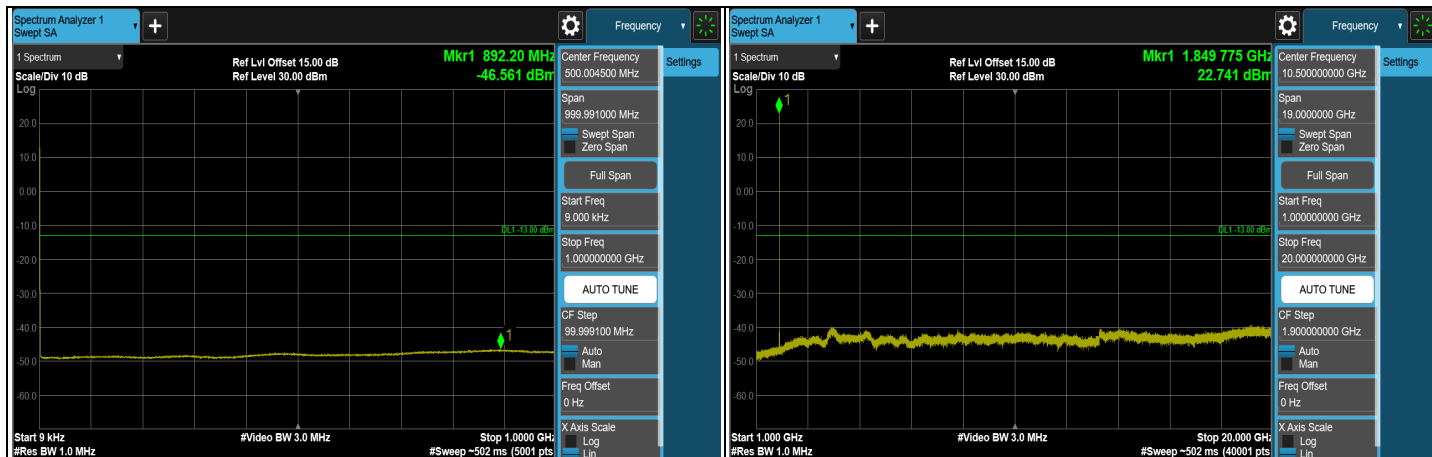
1RB CH 18615 (1851.5 MHz)



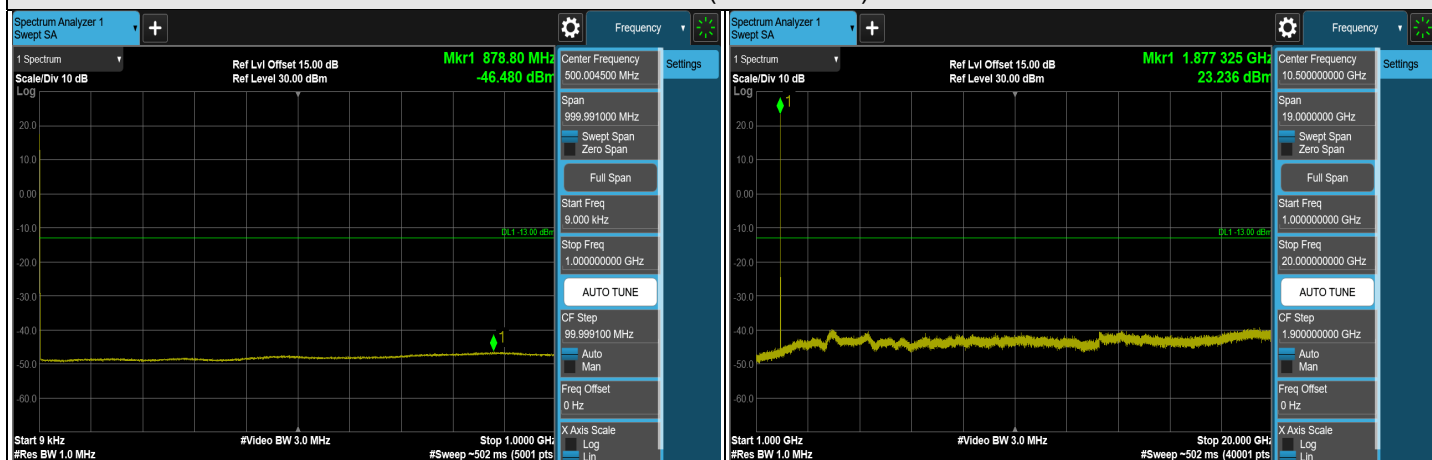
1RB CH 19185 (1908.5 MHz)



LTE Band 2, Channel Bandwidth: 5 MHz



CH 18625 (1852.5 MHz)

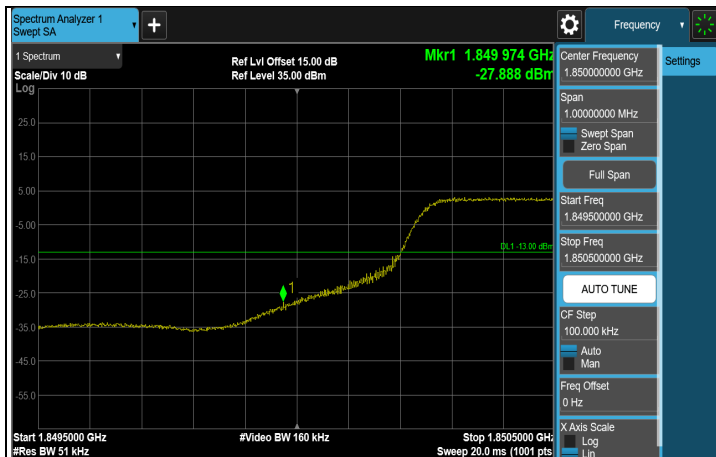


CH 18900 (1880 MHz)

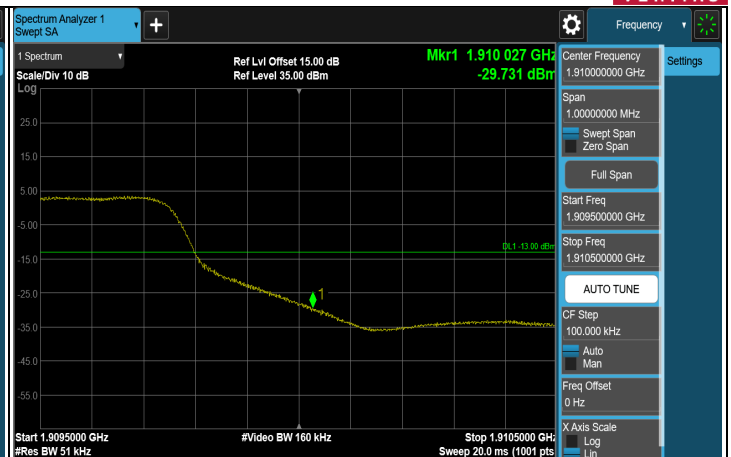


CH 19175 (1907.5 MHz)

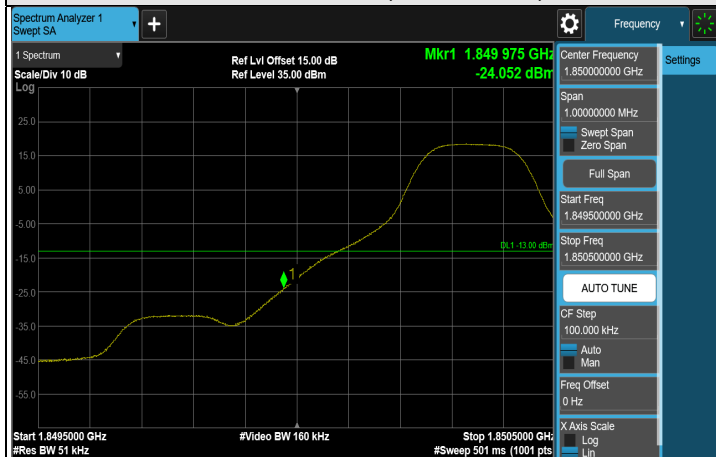
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



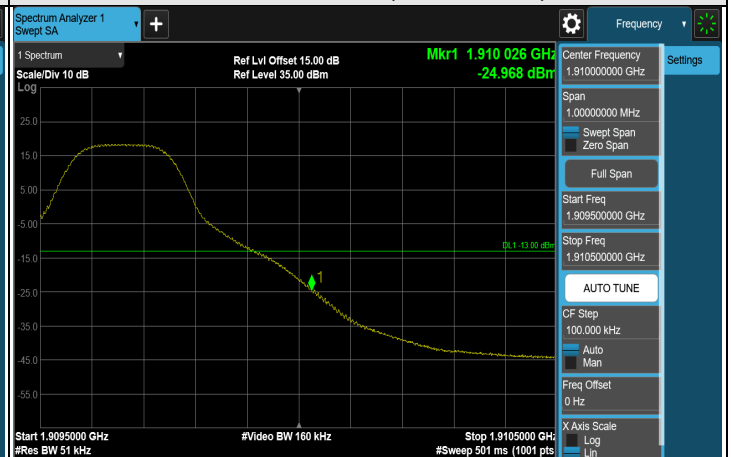
FULL CH 18625 (1852.5 MHz)



FULL CH 19175 (1907.5 MHz)



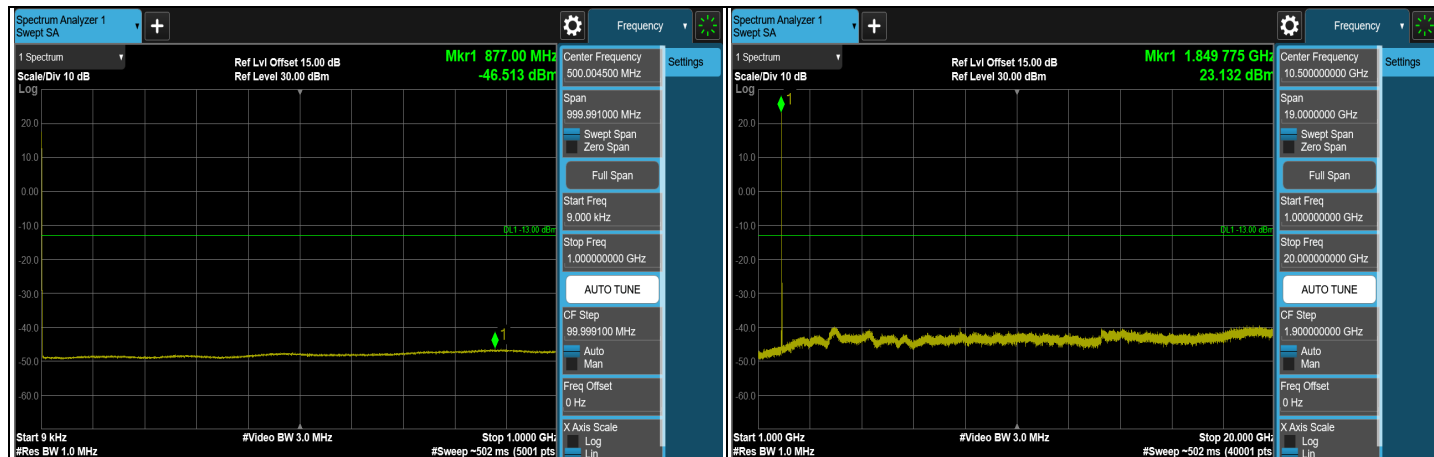
1RB CH 18625 (1852.5 MHz)



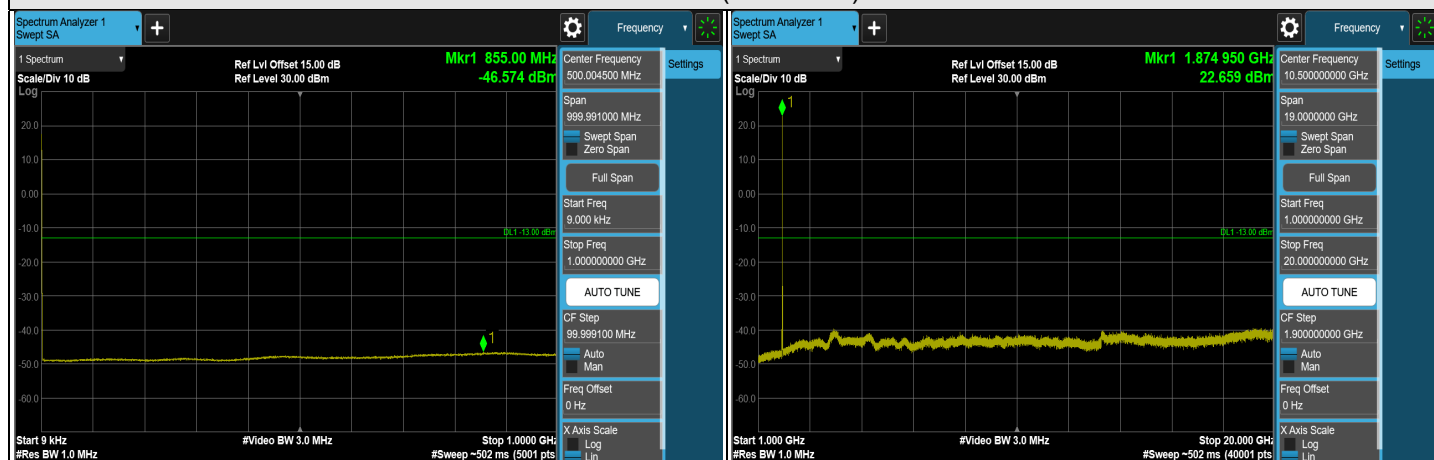
1RB CH 19175 (1907.5 MHz)



LTE Band 2, Channel Bandwidth: 10 MHz



CH 18650 (1855 MHz)



CH 18900 (1880 MHz)



CH 19150 (1905 MHz)

Note: The signal at 9 kHz is IF signal from spectrum analyzer.