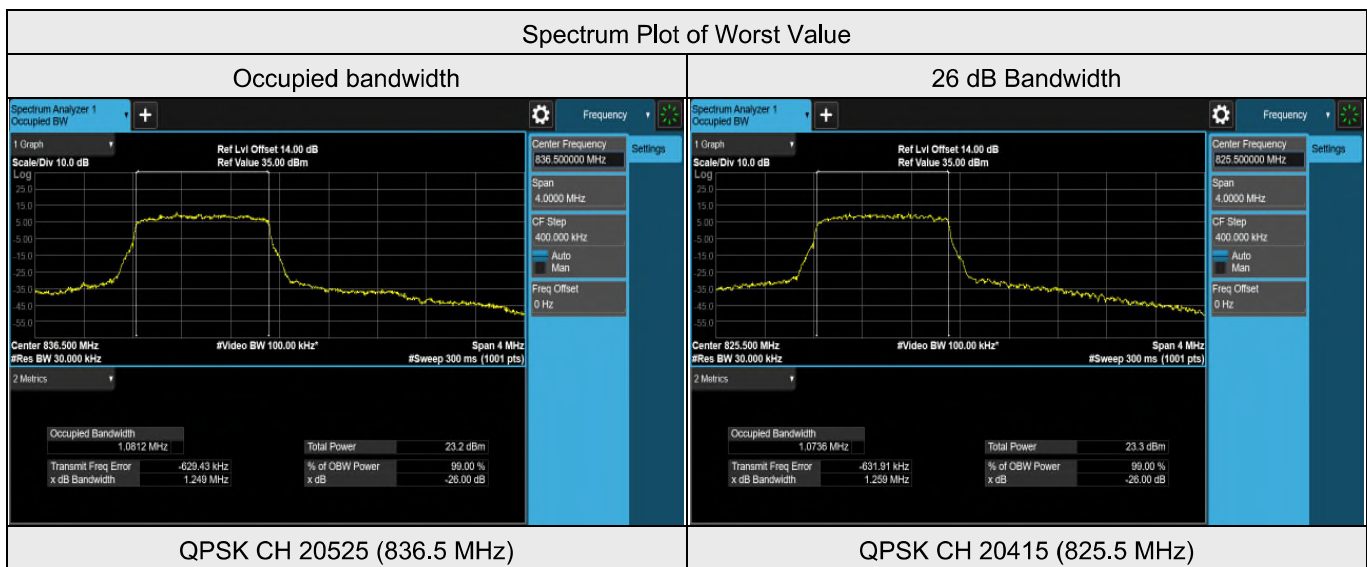


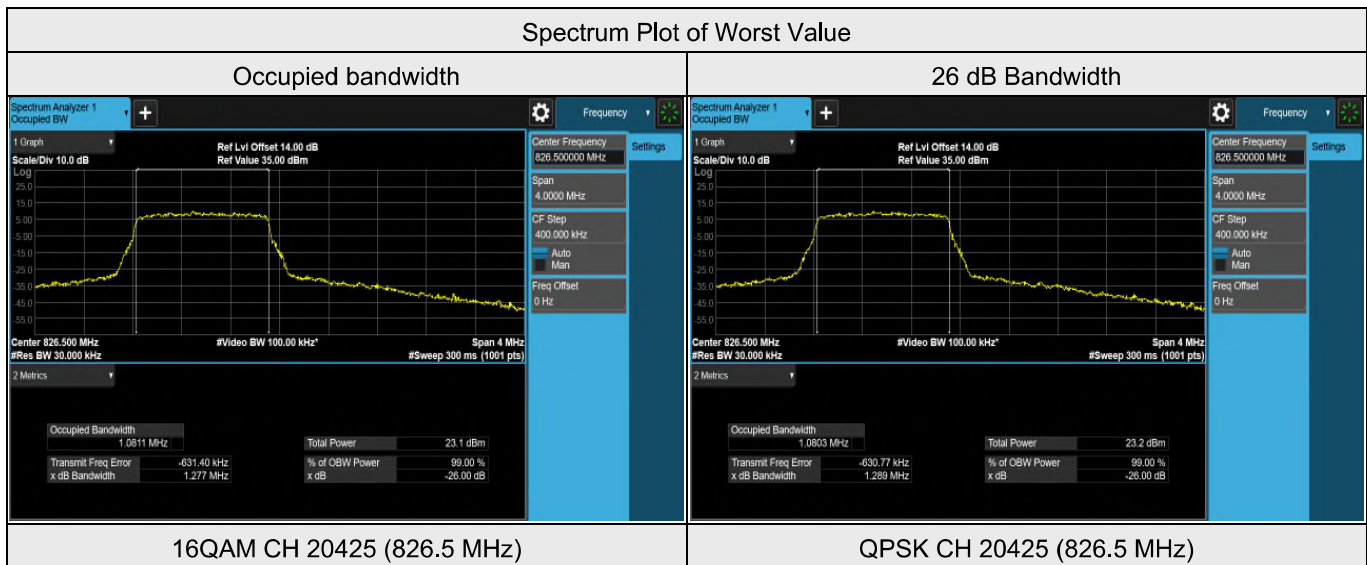
Cat-M1 Band 5, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20415	825.5	1.0736	1.259
QPSK	20525	836.5	1.0812	1.249
QPSK	20635	847.5	1.0738	1.257
16QAM	20415	825.5	1.0810	1.254
16QAM	20525	836.5	1.0732	1.259
16QAM	20635	847.5	1.0800	1.249



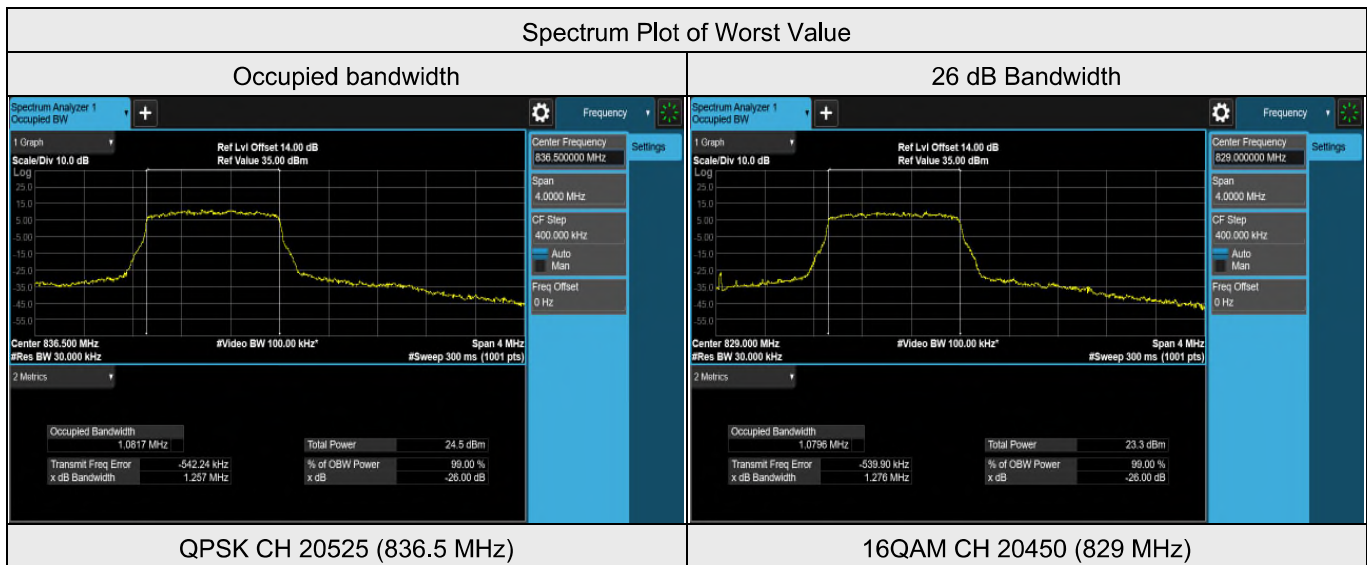
Cat-M1 Band 5, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20425	826.5	1.0803	1.289
QPSK	20525	836.5	1.0797	1.253
QPSK	20625	846.5	1.0792	1.243
16QAM	20425	826.5	1.0811	1.277
16QAM	20525	836.5	1.0789	1.271
16QAM	20625	846.5	1.0789	1.265



Cat-M1 Band 5, Channel Bandwidth: 10 MHz

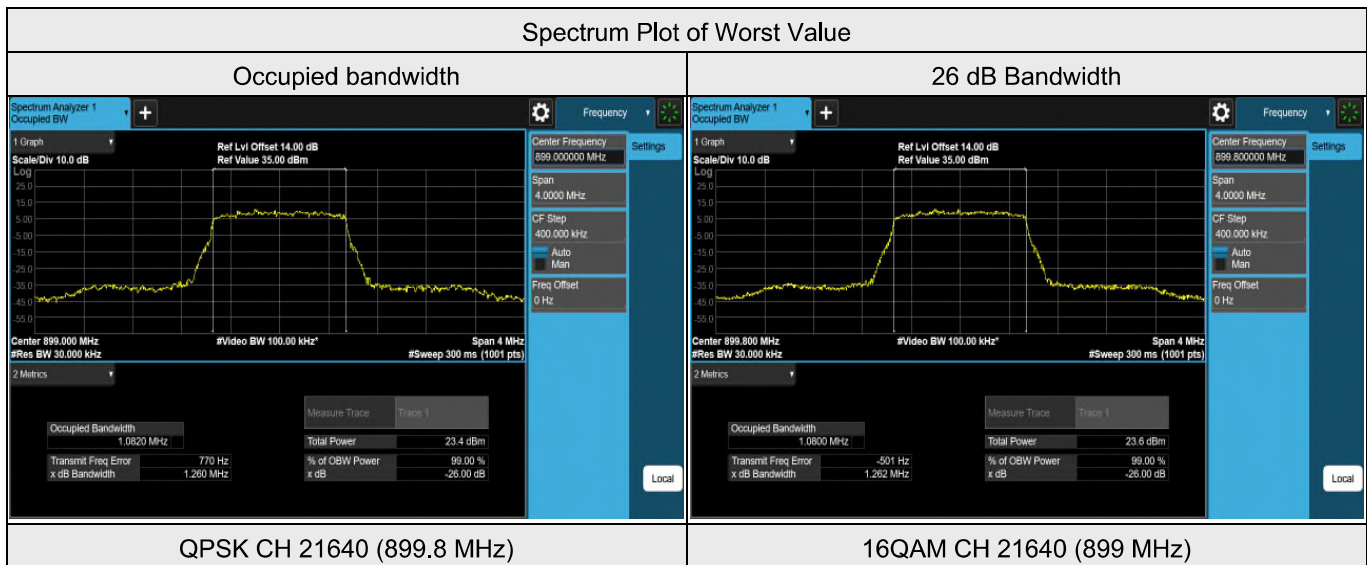
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20450	829	1.0773	1.251
QPSK	20525	836.5	1.0817	1.257
QPSK	20600	844	1.0770	1.263
16QAM	20450	829	1.0796	1.276
16QAM	20525	836.5	1.0796	1.272
16QAM	20600	844	1.0797	1.279



7.4.4 Cat-M1 Band 8

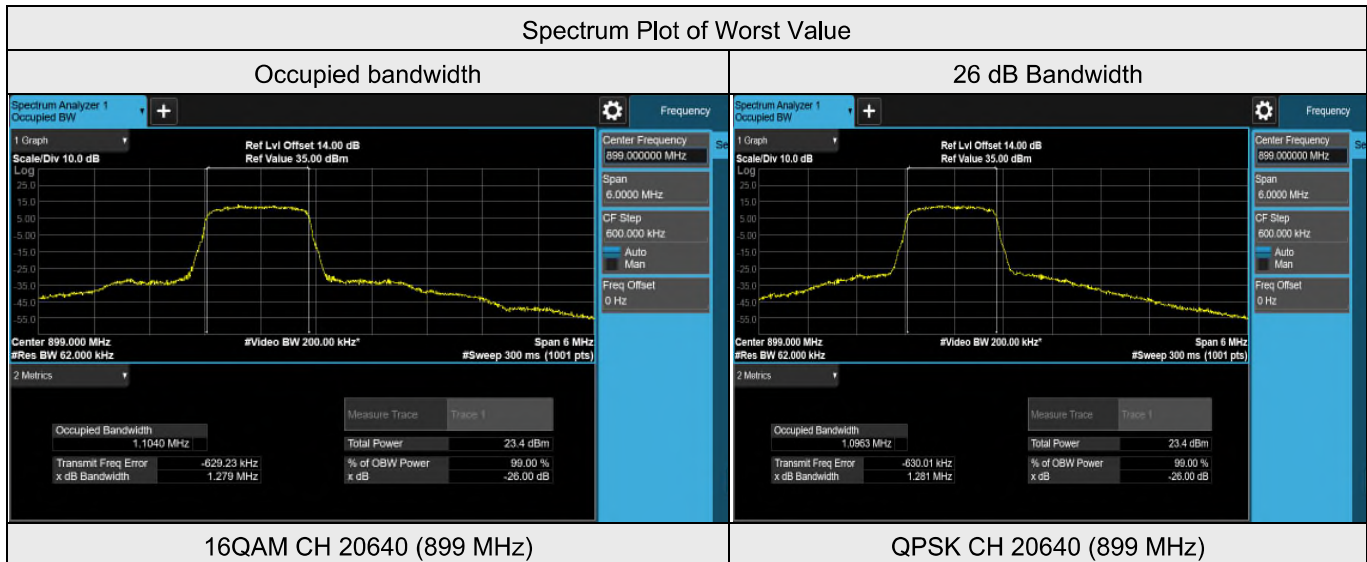
Cat-M1 Band 8, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	21632	898.2	1.0729	1.259
QPSK	21640	899	1.0754	1.257
QPSK	21648	899.8	1.0820	1.260
16QAM	21632	898.2	1.0817	1.260
16QAM	21640	899	1.0800	1.262
16QAM	21648	899.8	1.0747	1.254



Cat-M1 Band 8, Channel Bandwidth: 3 MHz

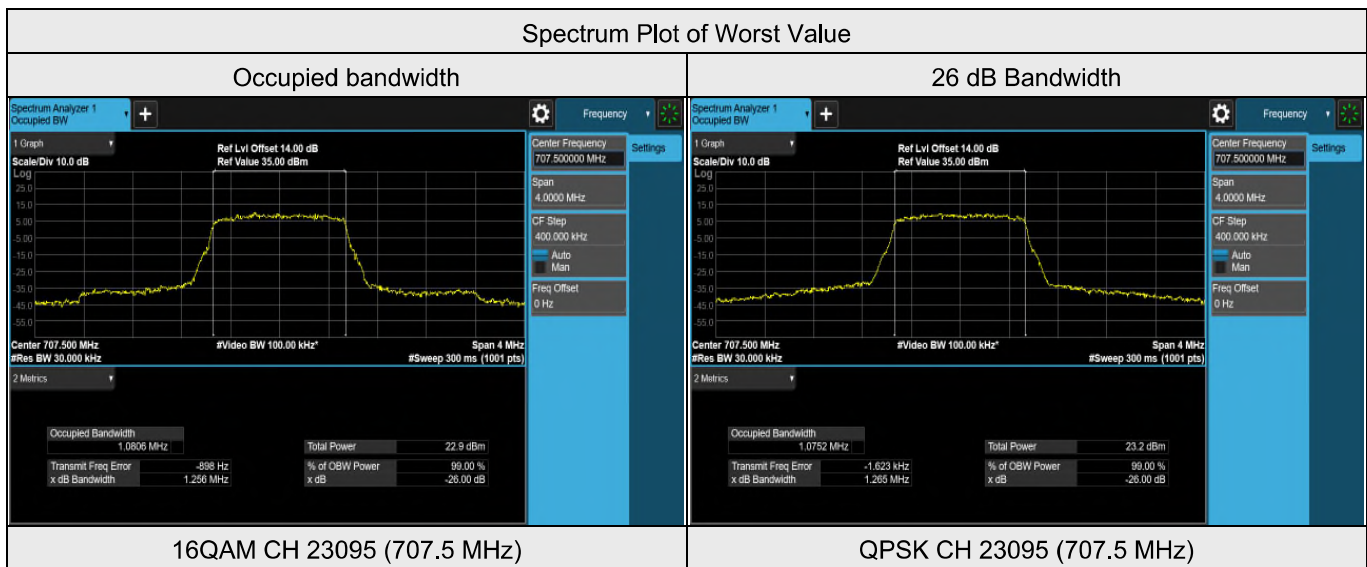
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	24640	899	1.0963	1.281
16QAM	24640	899	1.1040	1.279



7.4.5 Cat-M1 Band 12

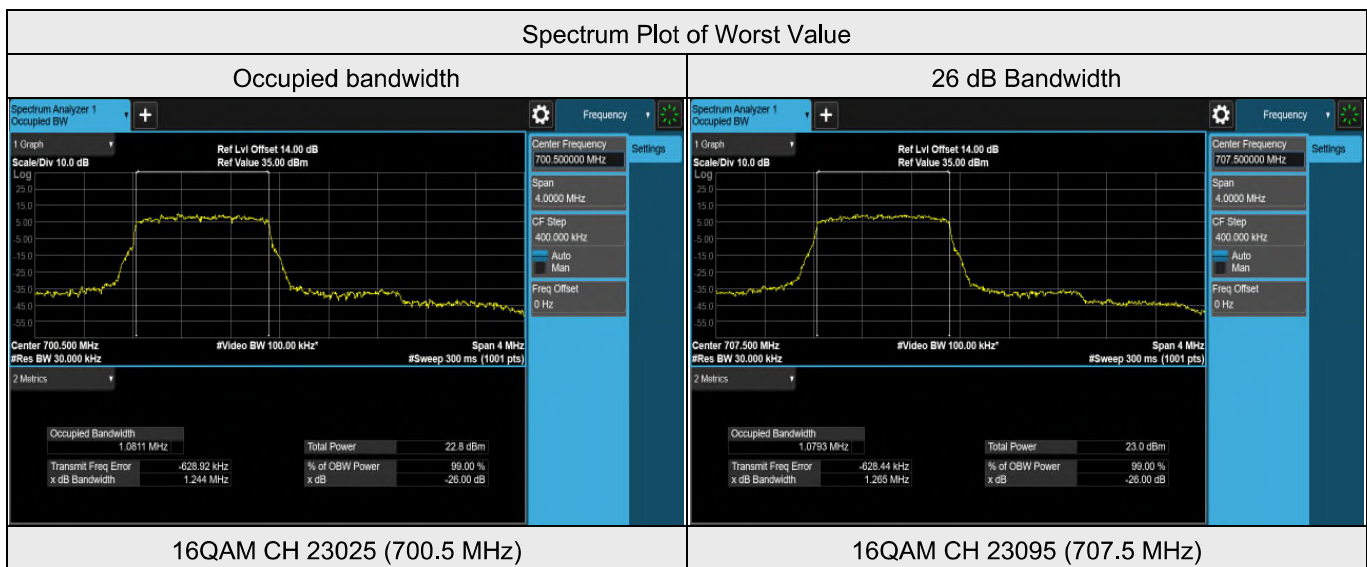
Cat-M1 Band 12, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23017	699.7	1.0749	1.262
QPSK	23095	707.5	1.0752	1.265
QPSK	23173	715.3	1.0743	1.260
16QAM	23017	699.7	1.0805	1.252
16QAM	23095	707.5	1.0806	1.256
16QAM	23173	715.3	1.0806	1.259



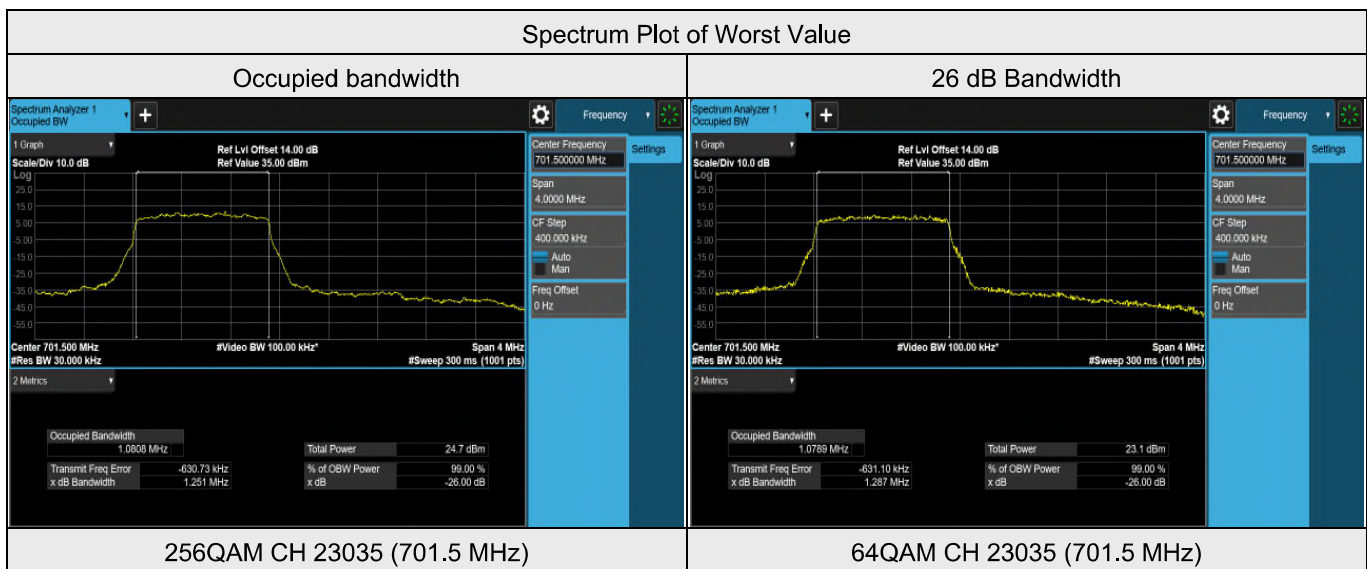
Cat-M1 Band 12, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23025	700.5	1.0739	1.251
QPSK	23095	707.5	1.0732	1.258
QPSK	23165	714.5	1.0724	1.257
16QAM	23025	700.5	1.0811	1.244
16QAM	23095	707.5	1.0793	1.265
16QAM	23165	714.5	1.0724	1.257



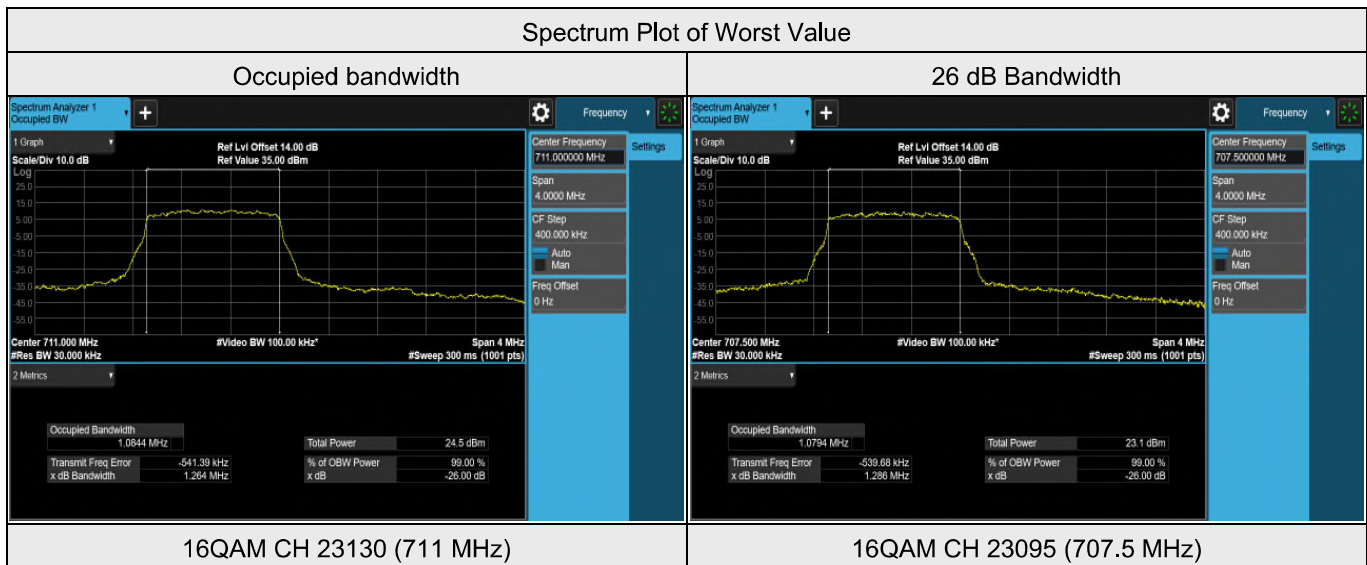
Cat-M1 Band 12, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23035	701.5	1.0808	1.251
QPSK	23095	707.5	1.0783	1.251
QPSK	23155	713.5	1.0792	1.253
16QAM	23035	701.5	1.0789	1.287
16QAM	23095	707.5	1.0775	1.280
16QAM	23155	713.5	1.0798	1.278



Cat-M1 Band 12, Channel Bandwidth: 10 MHz

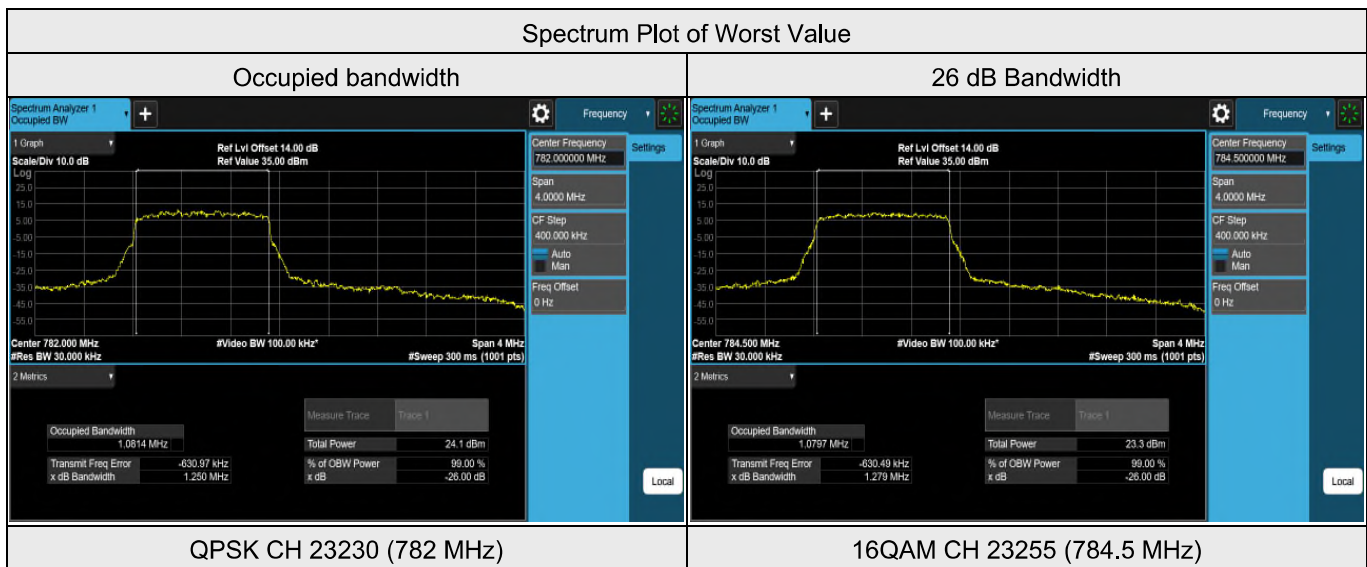
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23060	704	1.0831	1.263
QPSK	23095	707.5	1.0799	1.254
QPSK	23130	711	1.0795	1.274
16QAM	23060	704	1.0785	1.262
16QAM	23095	707.5	1.0794	1.286
16QAM	23130	711	1.0844	1.264



7.4.6 Cat-M1 Band 13

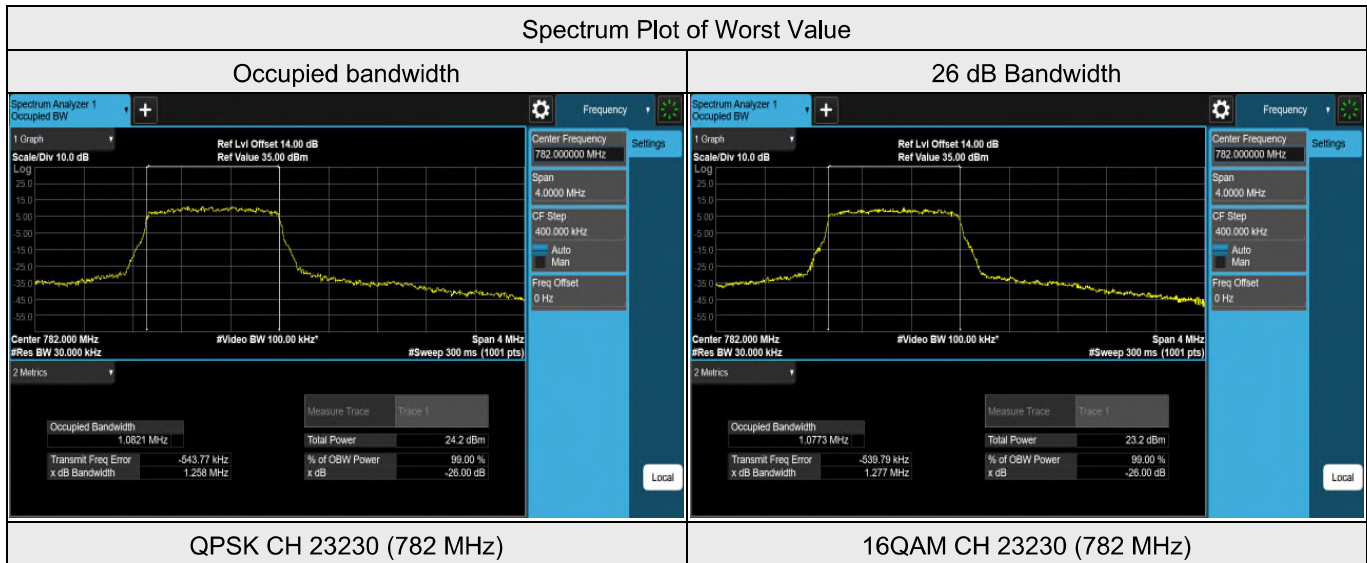
Cat-M1 Band 13, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23205	779.5	1.0799	1.257
QPSK	23230	782	1.0814	1.250
QPSK	23255	784.5	1.0796	1.254
16QAM	23205	779.5	1.0792	1.266
16QAM	23230	782	1.0802	1.274
16QAM	23255	784.5	1.0797	1.279



Cat-M1 Band 13, Channel Bandwidth: 10 MHz

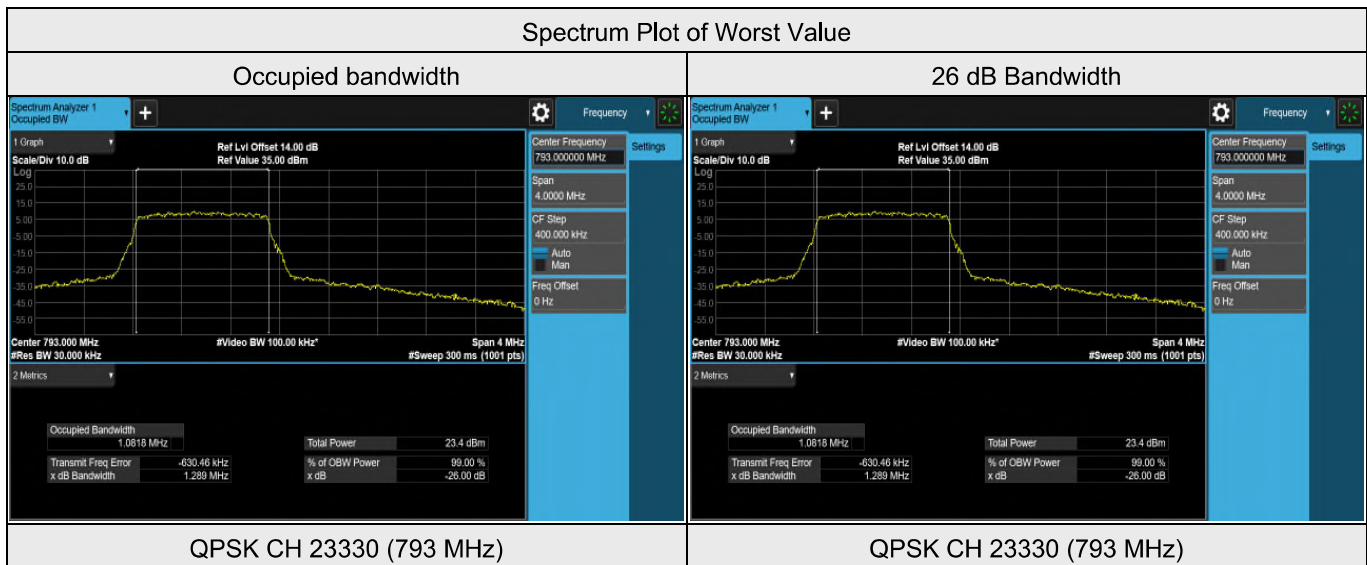
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23230	782	1.0821	1.258
16QAM	23230	782	1.0773	1.277



7.4.7 Cat-M1 Band 14

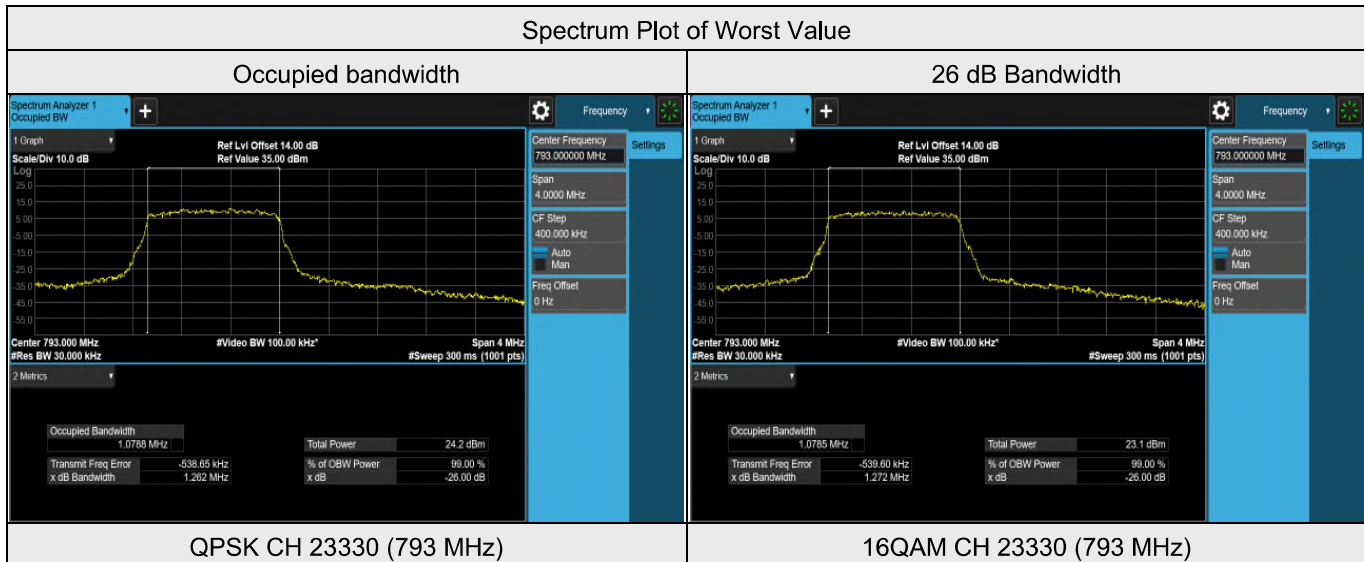
Cat-M1 Band 14, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23305	790.5	1.0790	1.257
QPSK	23330	793	1.0818	1.289
QPSK	23355	795.5	1.0757	1.250
16QAM	23305	790.5	1.0786	1.276
16QAM	23330	793	1.0770	1.249
16QAM	23355	795.5	1.0794	1.271



Cat-M1 Band 14, Channel Bandwidth: 10 MHz

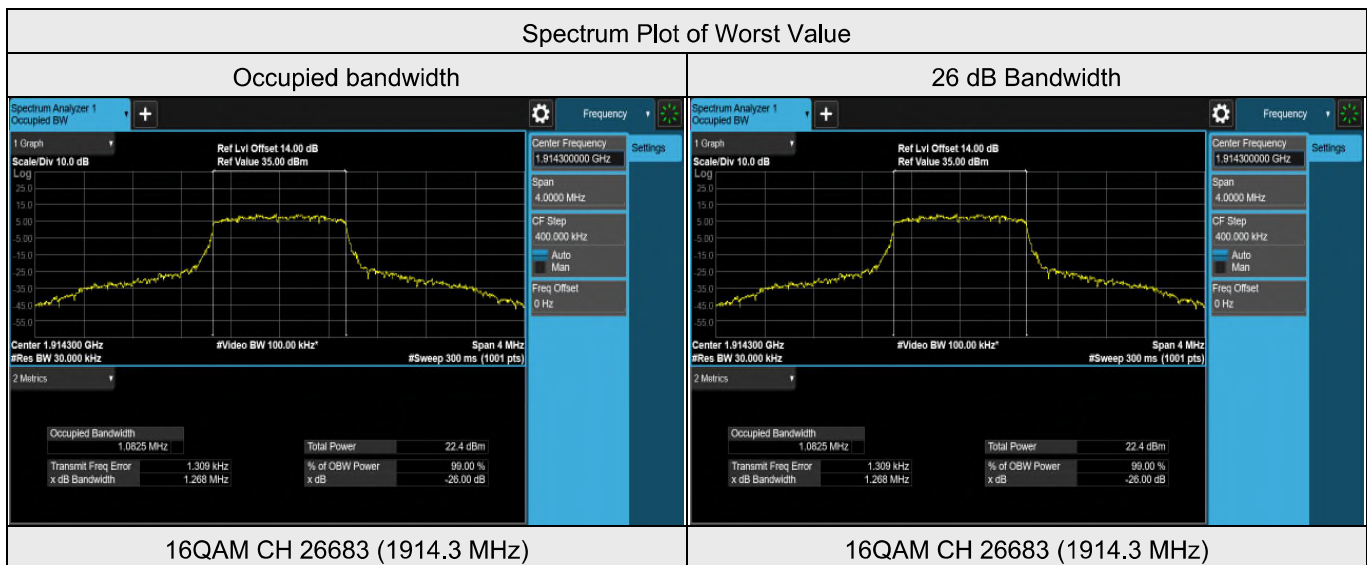
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23330	793	1.0788	1.262
16QAM	23330	793	1.0785	1.272



7.4.8 Cat-M1 Band 25

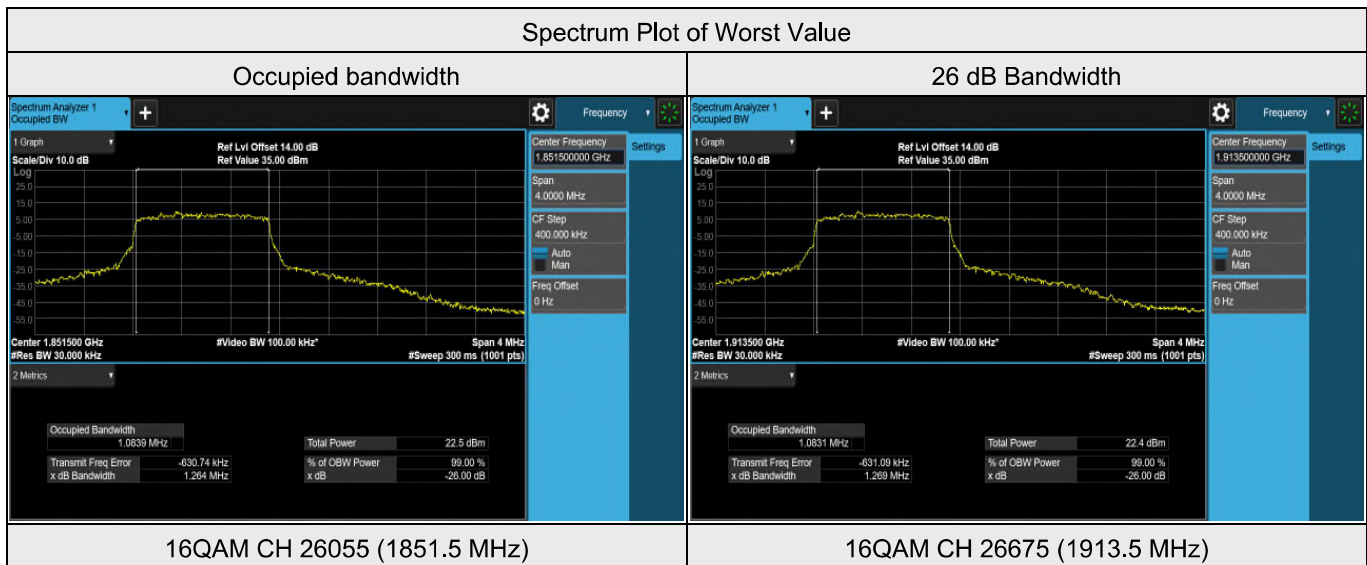
Cat-M1 Band 25, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26047	1850.7	1.0766	1.267
QPSK	26365	1882.5	1.0768	1.264
QPSK	26683	1914.3	1.0746	1.270
16QAM	26047	1850.7	1.0803	1.268
16QAM	26365	1882.5	1.0801	1.265
16QAM	26683	1914.3	1.0825	1.268



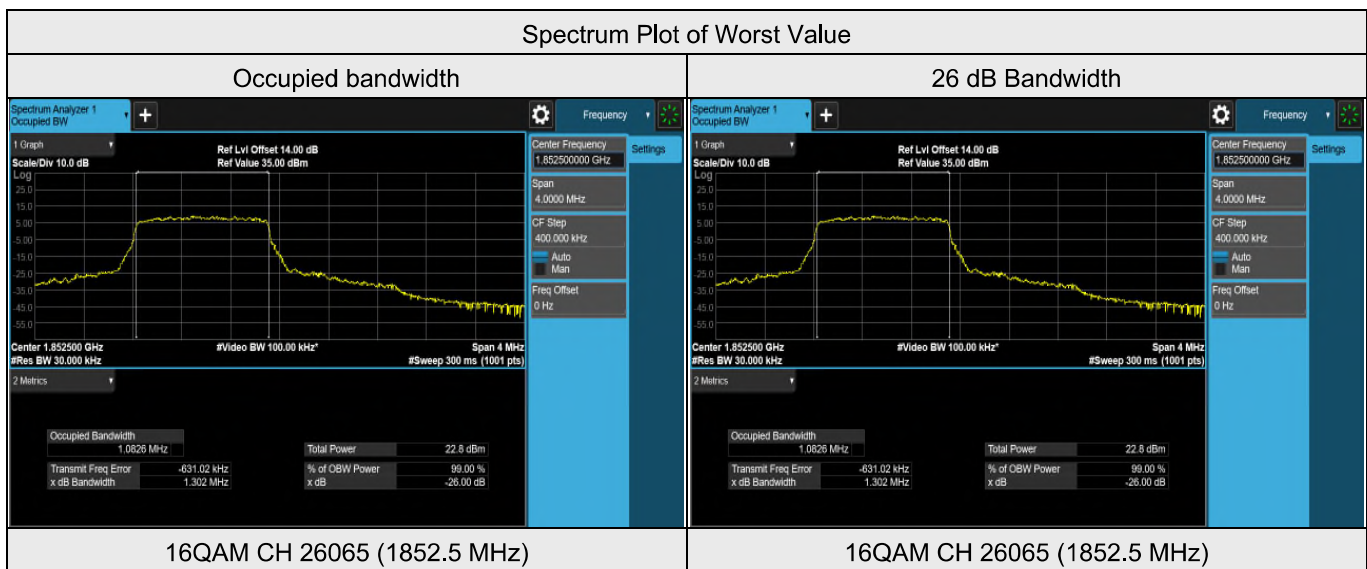
Cat-M1 Band 25, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26055	1851.5	1.0744	1.268
QPSK	26365	1882.5	1.0752	1.262
QPSK	26675	1913.5	1.0751	1.262
16QAM	26055	1851.5	1.0839	1.264
16QAM	26365	1882.5	1.0825	1.253
16QAM	26675	1913.5	1.0831	1.269



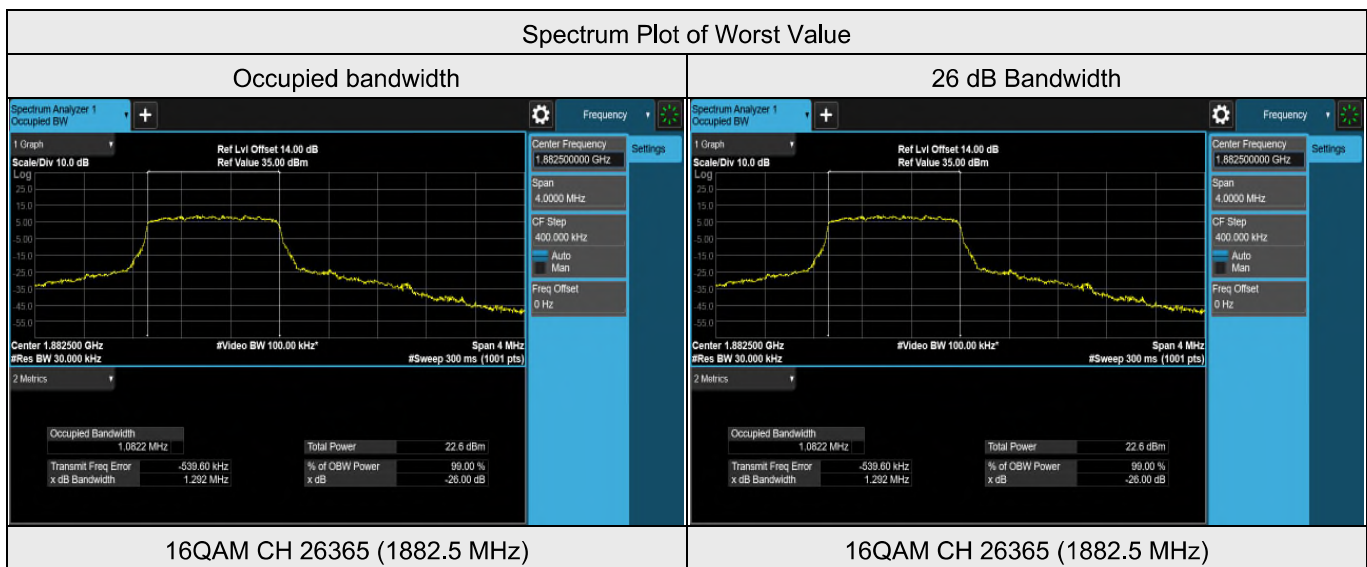
Cat-M1 Band 25, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26065	1852.5	1.0814	1.263
QPSK	26365	1882.5	1.0807	1.259
QPSK	26665	1912.5	1.0791	1.263
16QAM	26065	1852.5	1.0826	1.302
16QAM	26365	1882.5	1.0819	1.298
16QAM	26665	1912.5	1.0785	1.280



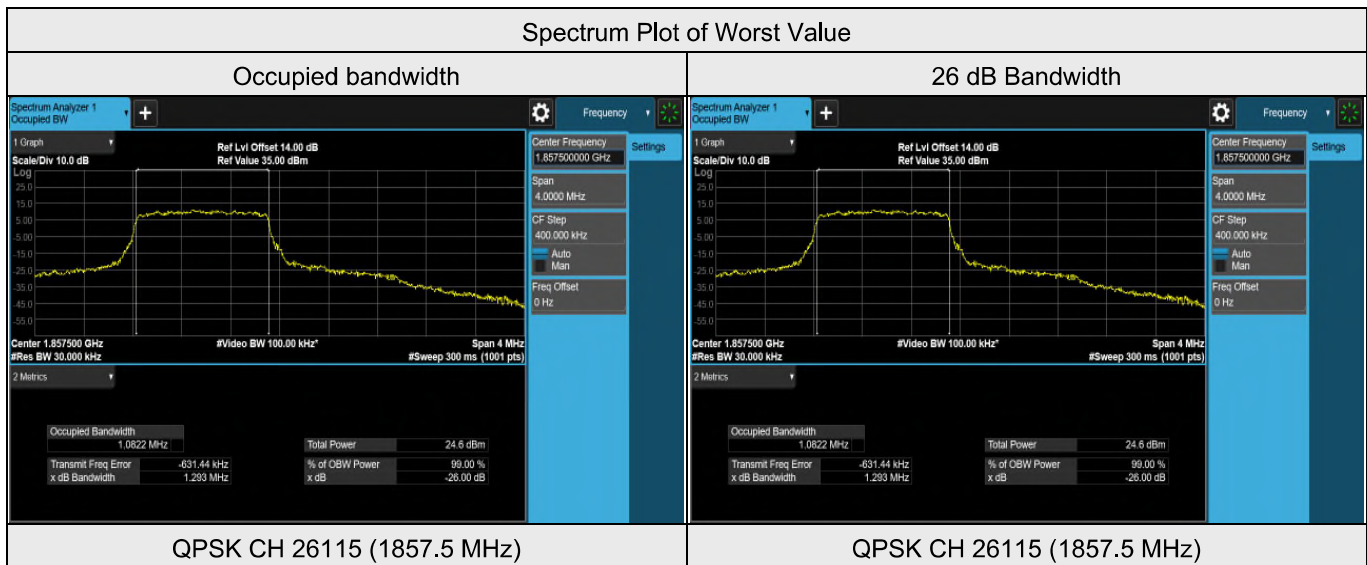
Cat-M1 Band 25, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26090	1855	1.0815	1.261
QPSK	26365	1882.5	1.0822	1.265
QPSK	26640	1910	1.0794	1.272
16QAM	26090	1855	1.0800	1.286
16QAM	26365	1882.5	1.0822	1.292
16QAM	26640	1910	1.0785	1.283



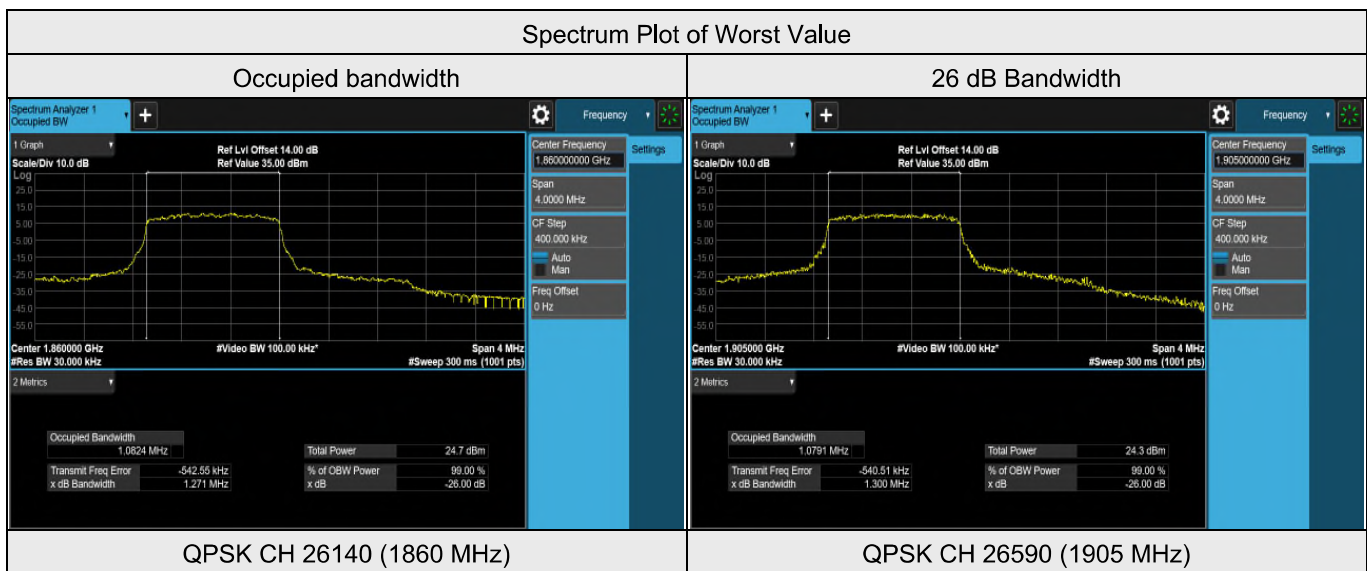
Cat-M1 Band 25, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26115	1857.5	1.0822	1.293
QPSK	26365	1882.5	1.0831	1.289
QPSK	26615	1907.5	1.0806	1.287
16QAM	26115	1857.5	1.0784	1.256
16QAM	26365	1882.5	1.0808	1.258
16QAM	26615	1907.5	1.0796	1.256



Cat-M1 Band 25, Channel Bandwidth: 20 MHz

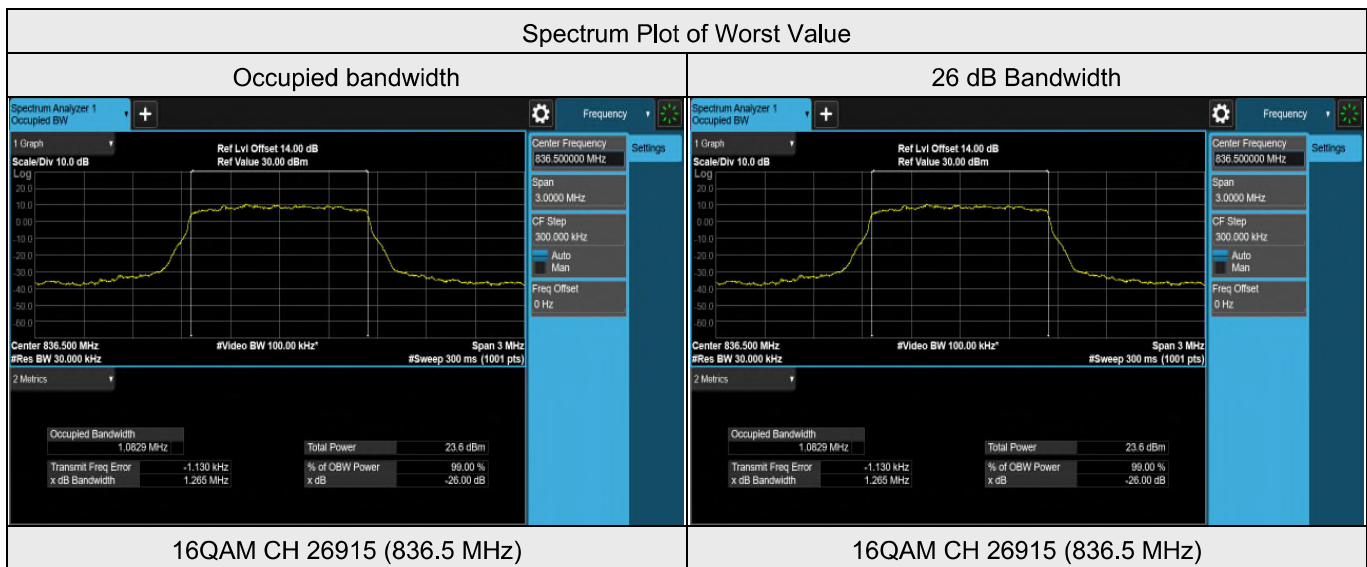
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26140	1860	1.0824	1.271
QPSK	26365	1882.5	1.0807	1.290
QPSK	26590	1905	1.0791	1.300
16QAM	26140	1860	1.0807	1.289
16QAM	26365	1882.5	1.0786	1.272
16QAM	26590	1905	1.0776	1.269



7.4.9 Cat-M1 Band 26 (Part 22)

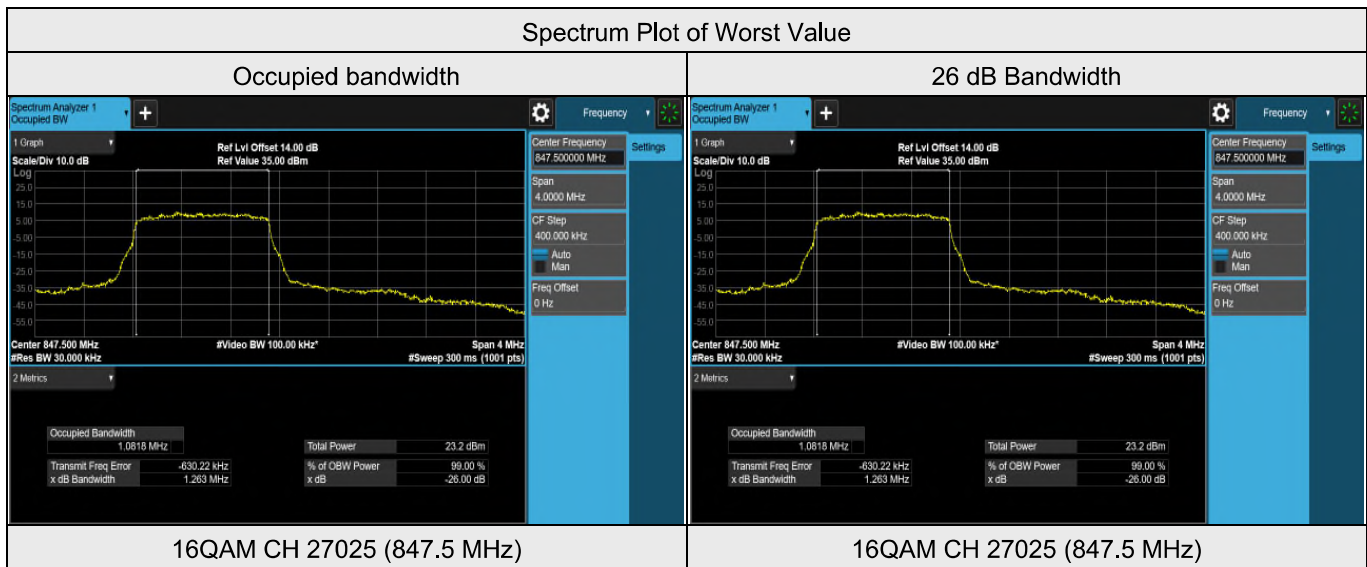
Cat-M1 Band 26, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26797	824.7	1.0745	1.263
QPSK	26915	836.5	1.0770	1.256
QPSK	27033	848.3	1.0741	1.264
16QAM	26797	824.7	1.0799	1.248
16QAM	26915	836.5	1.0829	1.265
16QAM	27033	848.3	1.0807	1.256



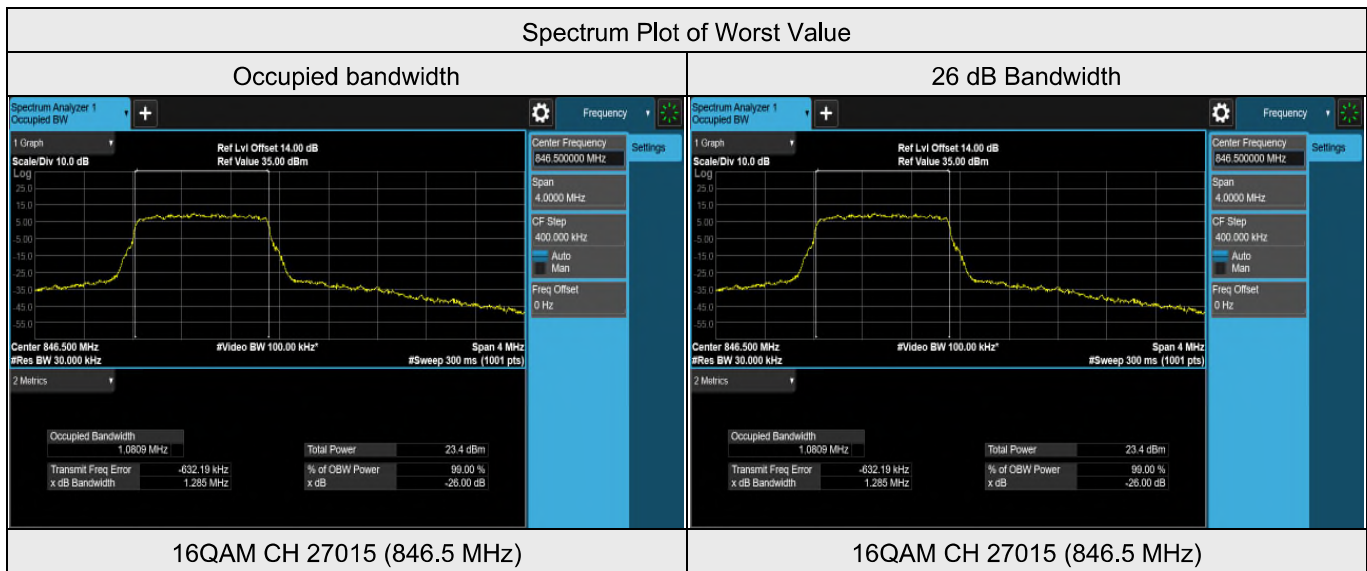
Cat-M1 Band 26, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26805	825.5	1.0730	1.253
QPSK	26915	836.5	1.0722	1.262
QPSK	27025	847.5	1.0735	1.262
16QAM	26805	825.5	1.0811	1.257
16QAM	26915	836.5	1.0816	1.252
16QAM	27025	847.5	1.0818	1.263



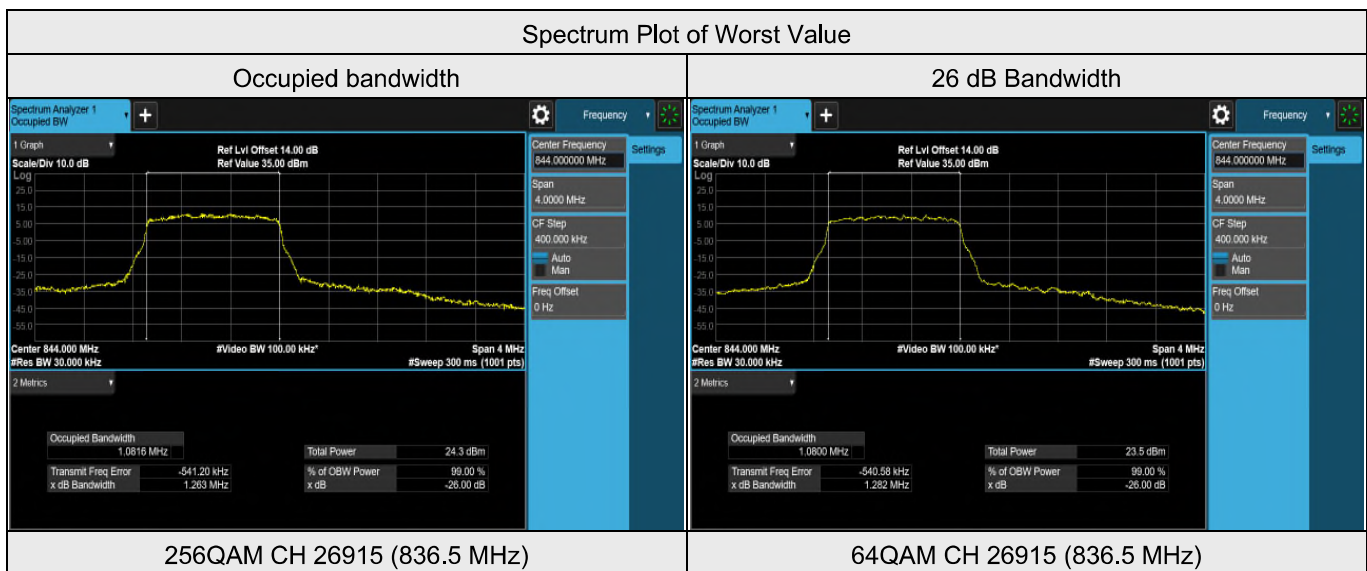
Cat-M1 Band 26, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26815	826.5	1.0800	1.257
QPSK	26915	836.5	1.0800	1.254
QPSK	27015	846.5	1.0792	1.254
16QAM	26815	826.5	1.0808	1.285
16QAM	26915	836.5	1.0799	1.278
16QAM	27015	846.5	1.0809	1.285



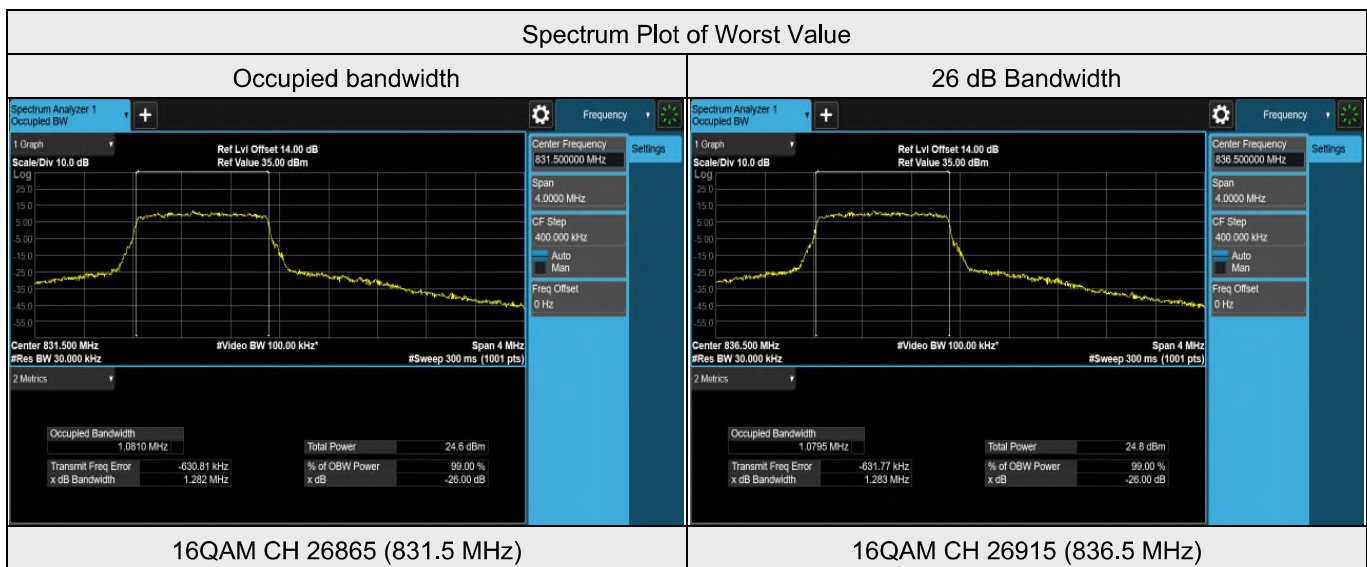
Cat-M1 Band 26, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26840	829	1.0808	1.263
QPSK	26915	836.5	1.0814	1.262
QPSK	26990	844	1.0816	1.263
16QAM	26840	829	1.0784	1.276
16QAM	26915	836.5	1.0796	1.276
16QAM	26990	844	1.0800	1.282



Cat-M1 Band 26, Channel Bandwidth: 15 MHz

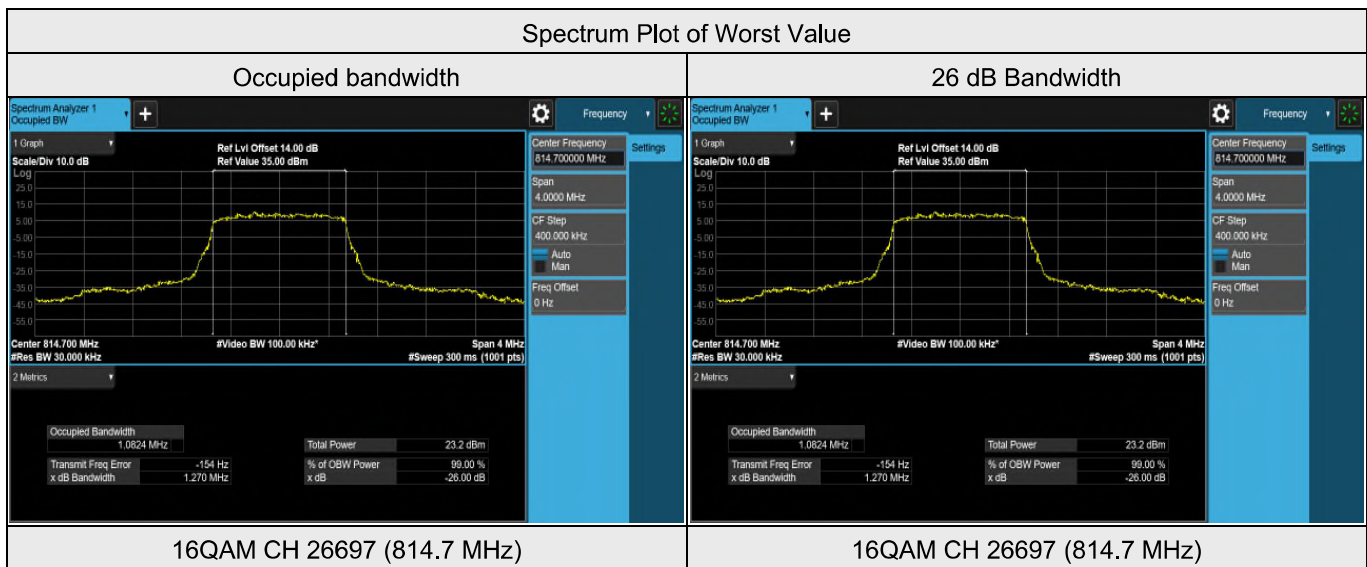
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26865	831.5	1.0786	1.252
QPSK	26915	836.5	1.0779	1.258
QPSK	26965	841.5	1.0805	1.266
16QAM	26865	831.5	1.0810	1.282
16QAM	26915	836.5	1.0795	1.283
16QAM	26965	841.5	1.0797	1.255



7.4.10 Cat-M1 Band 26 (Part 90)

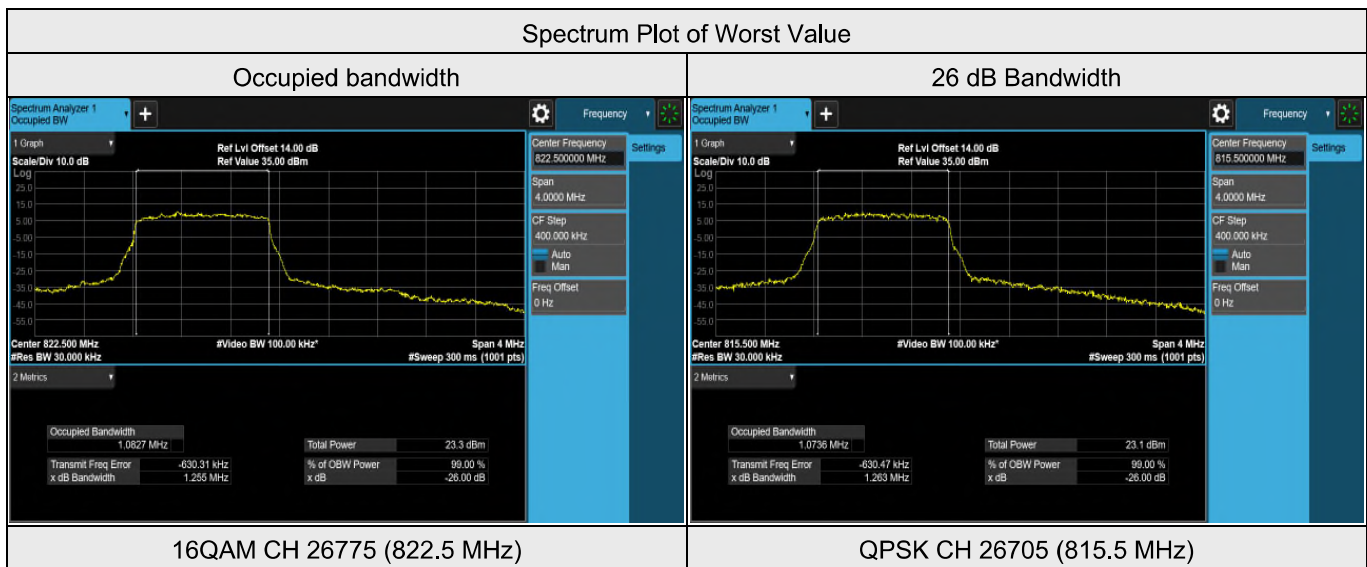
Cat-M1 Band 26, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26697	814.7	1.0750	1.261
QPSK	26740	819	1.0744	1.260
QPSK	26783	823.3	1.0814	1.270
16QAM	26697	814.7	1.0824	1.270
16QAM	26740	819	1.0812	1.258
16QAM	26783	823.3	1.0821	1.251



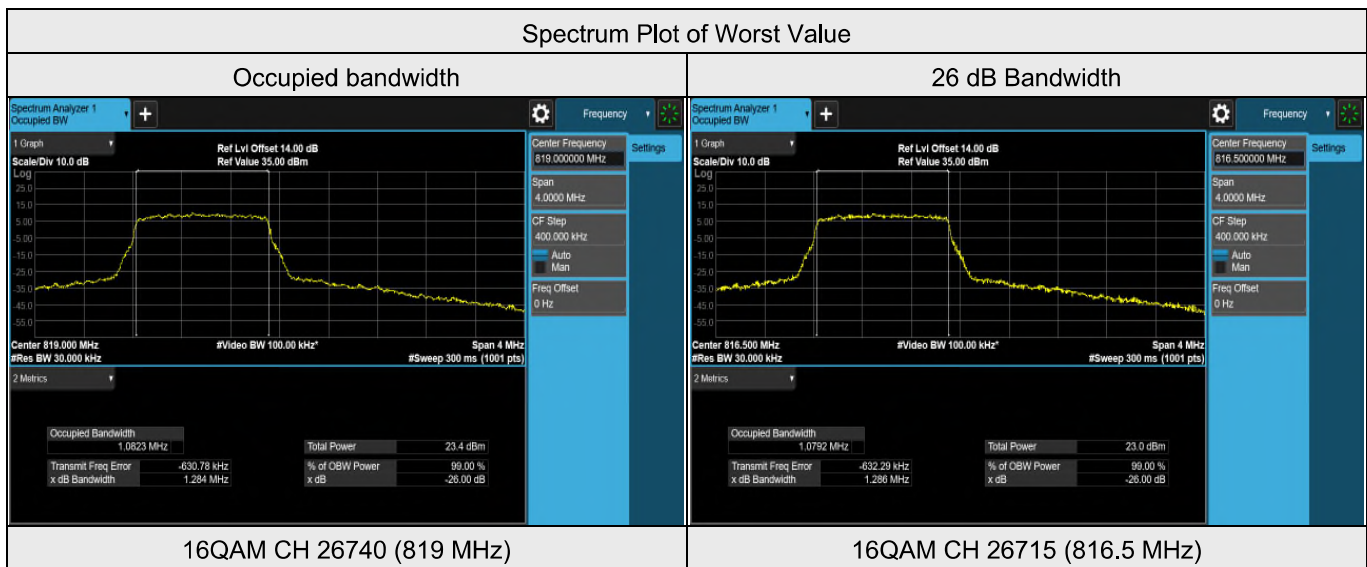
Cat-M1 Band 26, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26705	815.5	1.0736	1.263
QPSK	26740	819	1.0811	1.253
QPSK	26775	822.5	1.0733	1.260
16QAM	26705	815.5	1.0799	1.251
16QAM	26740	819	1.0723	1.258
16QAM	26775	822.5	1.0827	1.255



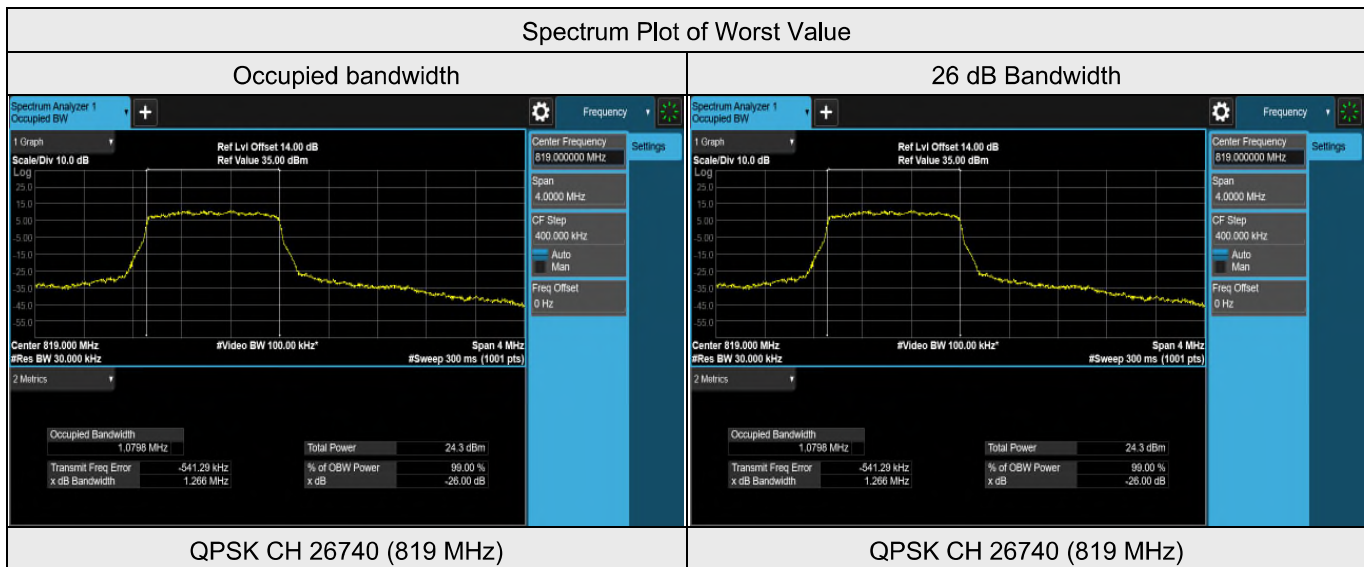
Cat-M1 Band 26, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26715	816.5	1.0795	1.257
QPSK	26740	819	1.0802	1.253
QPSK	26765	821.5	1.0798	1.257
16QAM	26715	816.5	1.0792	1.286
16QAM	26740	819	1.0823	1.284
16QAM	26765	821.5	1.0802	1.279



Cat-M1 Band 26, Channel Bandwidth: 10 MHz

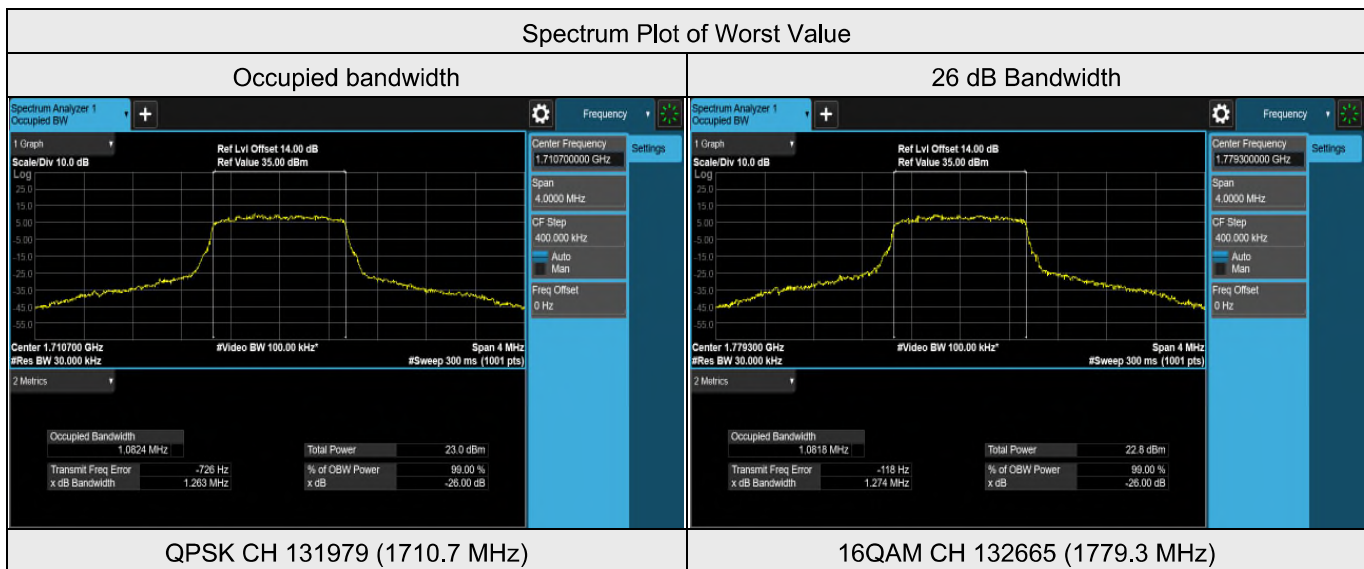
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26740	819	1.0798	1.266
16QAM	26740	819	1.0781	1.264



7.4.11 Cat-M1 Band 66

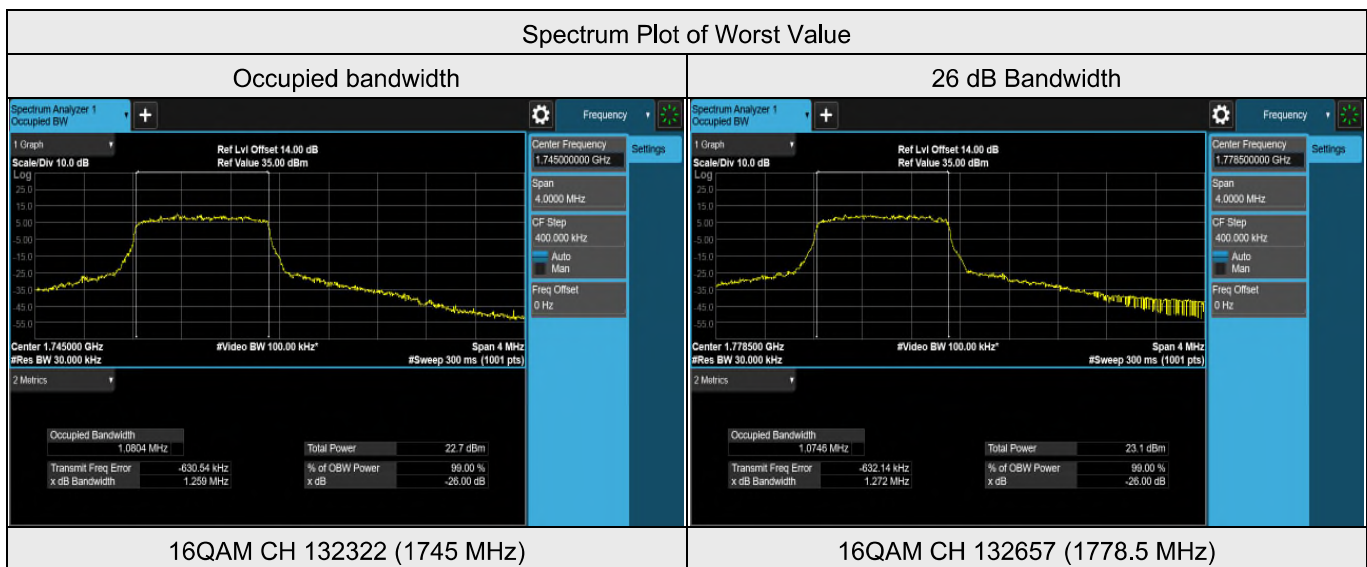
Cat-M1 Band 66, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	131979	1710.7	1.0824	1.263
QPSK	132322	1745	1.0817	1.266
QPSK	132665	1779.3	1.0750	1.269
16QAM	131979	1710.7	1.0768	1.262
16QAM	132322	1745	1.0768	1.261
16QAM	132665	1779.3	1.0818	1.274



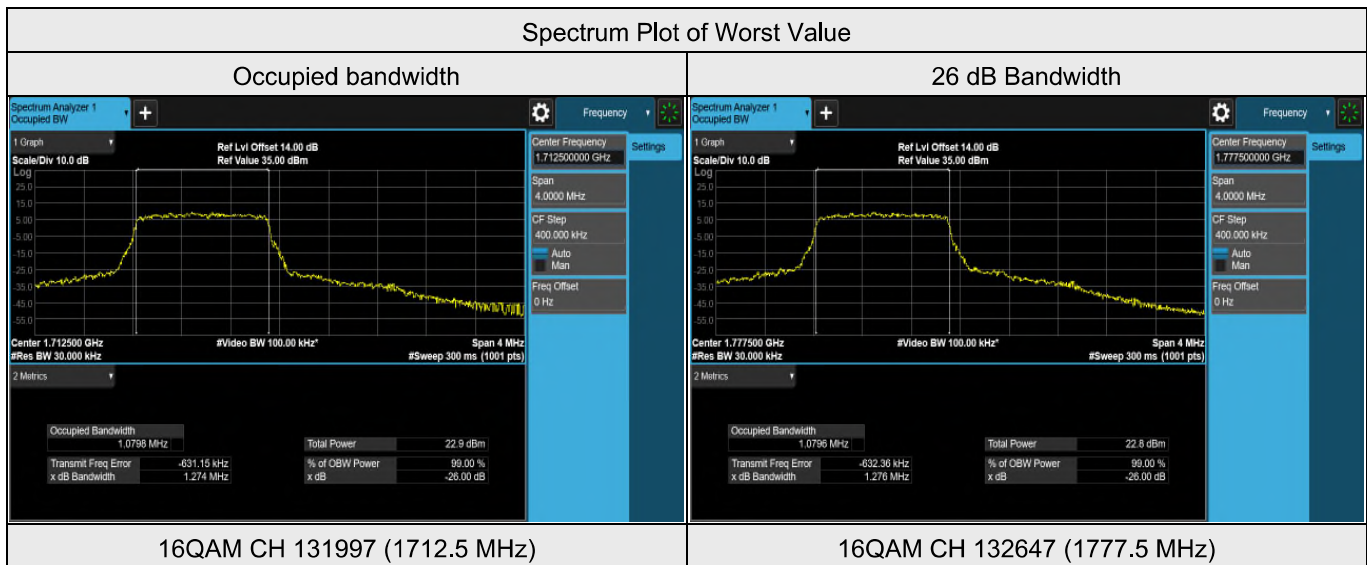
Cat-M1 Band 66, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	131987	1711.5	1.0737	1.264
QPSK	132322	1745	1.0754	1.252
QPSK	132657	1778.5	1.0798	1.260
16QAM	131987	1711.5	1.0733	1.260
16QAM	132322	1745	1.0804	1.259
16QAM	132657	1778.5	1.0746	1.272



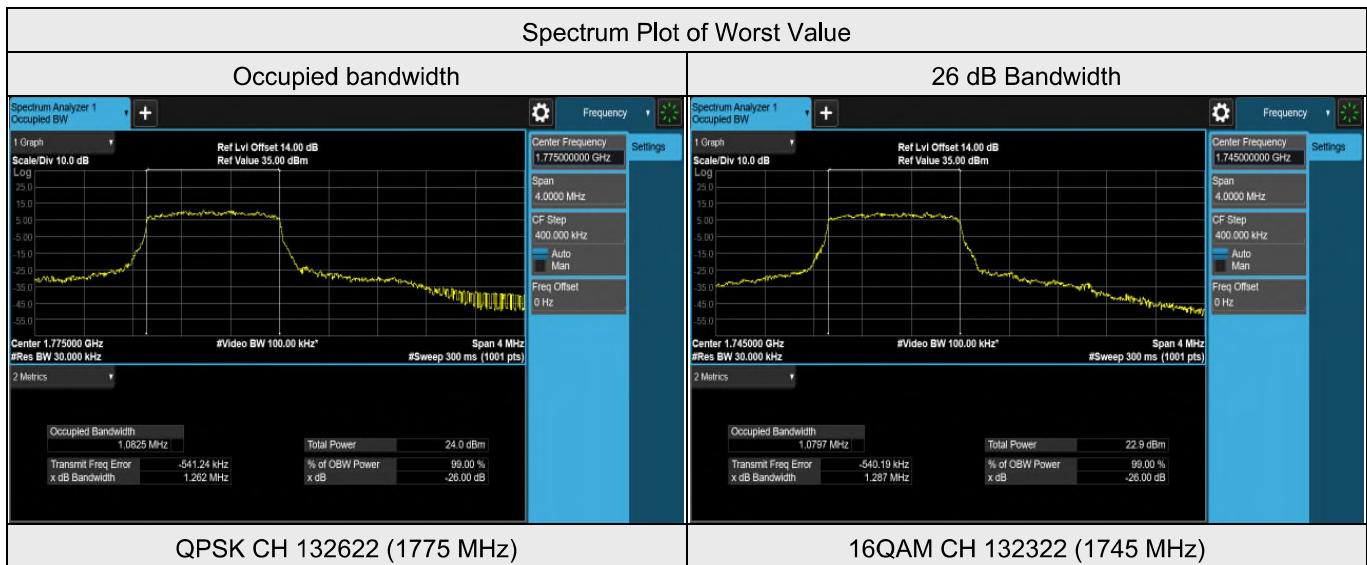
Cat-M1 Band 66, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	131997	1712.5	1.0776	1.247
QPSK	132322	1745	1.0754	1.256
QPSK	132647	1777.5	1.0791	1.254
16QAM	131997	1712.5	1.0798	1.274
16QAM	132322	1745	1.0782	1.274
16QAM	132647	1777.5	1.0796	1.276



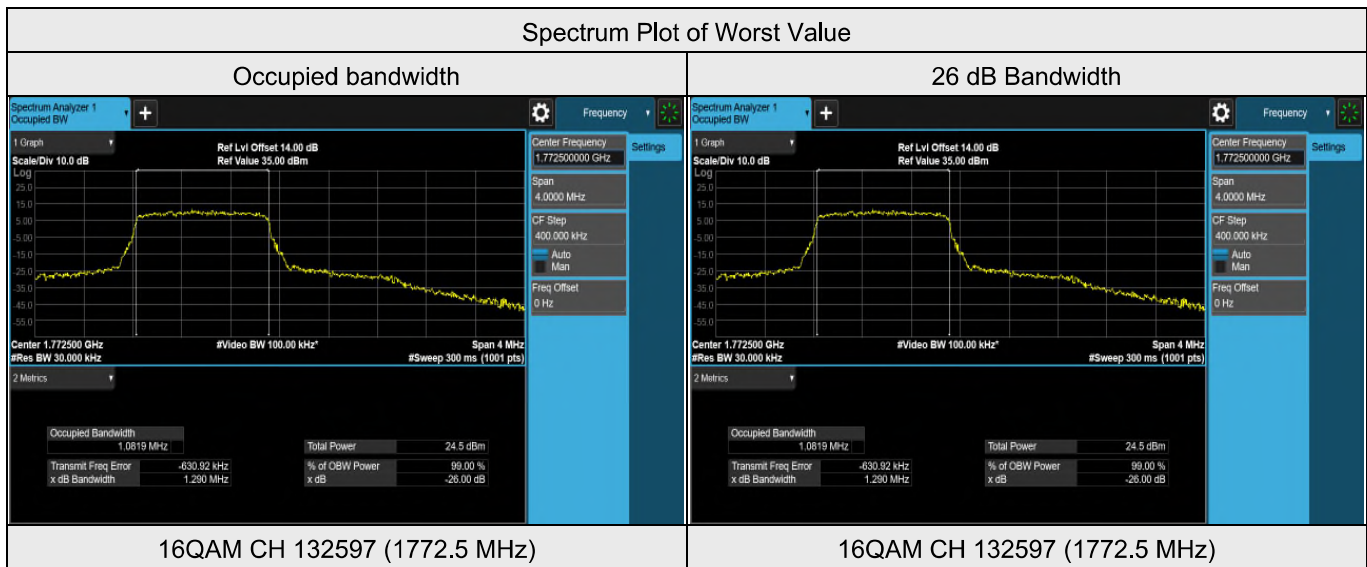
Cat-M1 Band 66, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	132022	1715	1.0824	1.260
QPSK	132322	1745	1.0791	1.268
QPSK	132622	1775	1.0825	1.262
16QAM	132022	1715	1.0790	1.267
16QAM	132322	1745	1.0797	1.287
16QAM	132622	1775	1.0788	1.282



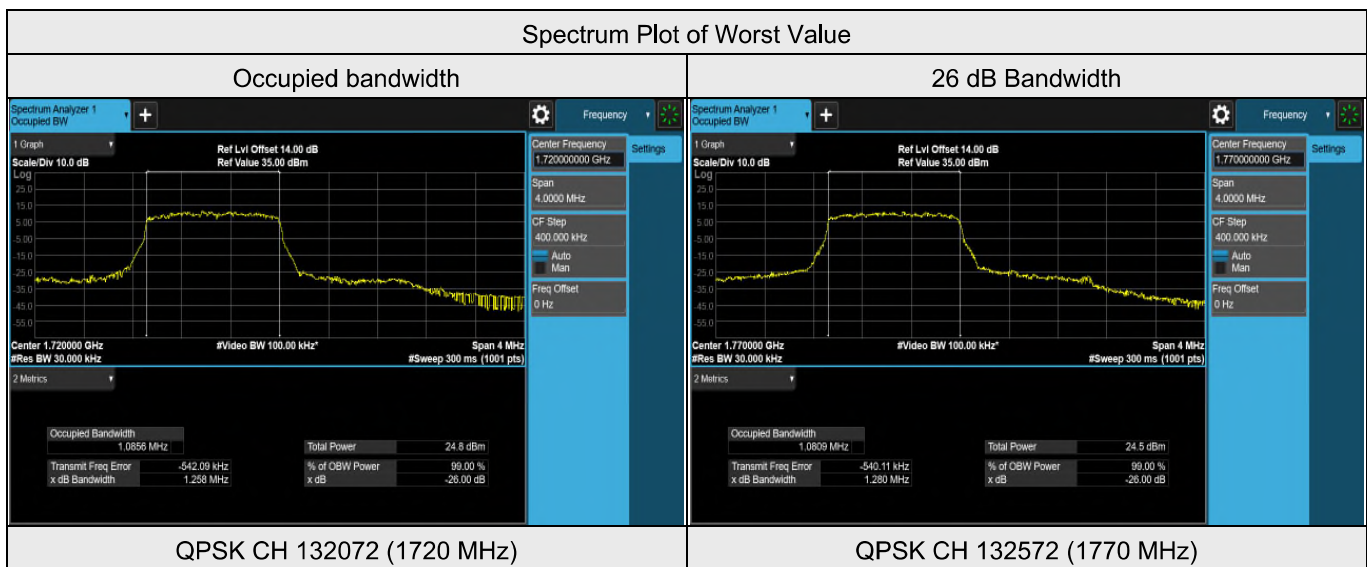
Cat-M1 Band 66, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	132047	1717.5	1.0787	1.256
QPSK	132322	1745	1.0789	1.276
QPSK	132597	1772.5	1.0785	1.257
16QAM	132047	1717.5	1.0815	1.287
16QAM	132322	1745	1.0794	1.258
16QAM	132597	1772.5	1.0819	1.290



Cat-M1 Band 66, Channel Bandwidth: 20 MHz

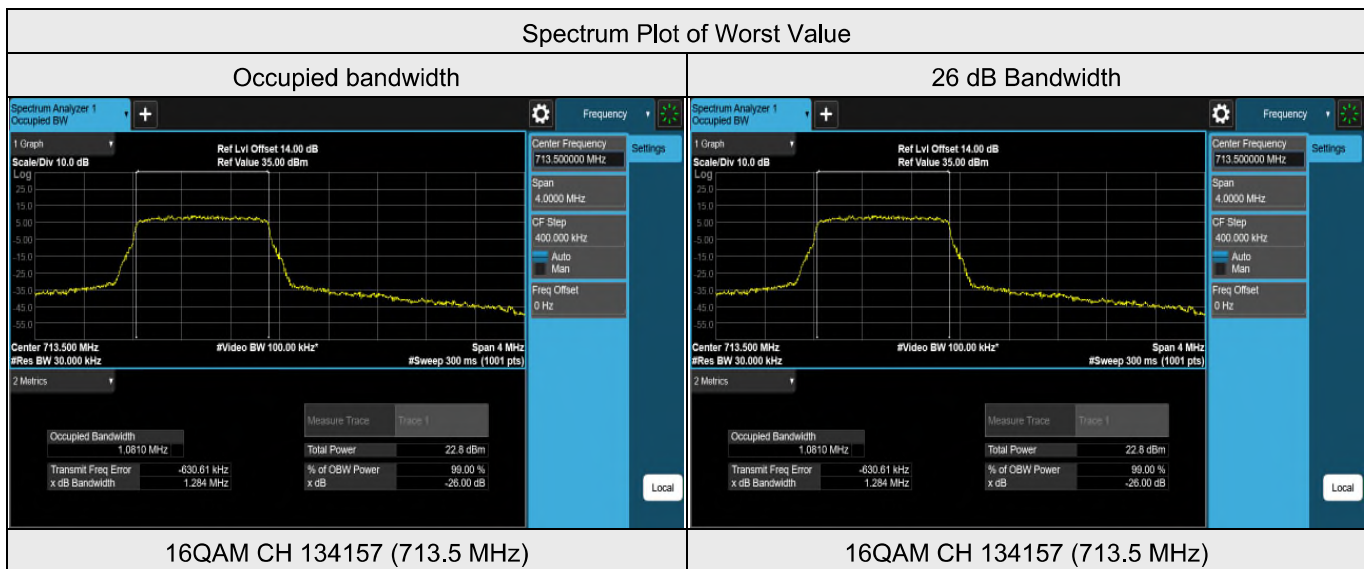
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	132072	1720	1.0856	1.258
QPSK	132322	1745	1.0783	1.259
QPSK	132572	1770	1.0809	1.280
16QAM	132072	1720	1.0779	1.278
16QAM	132322	1745	1.0801	1.274
16QAM	132572	1770	1.0842	1.258



7.4.12 Cat-M1 Band 85

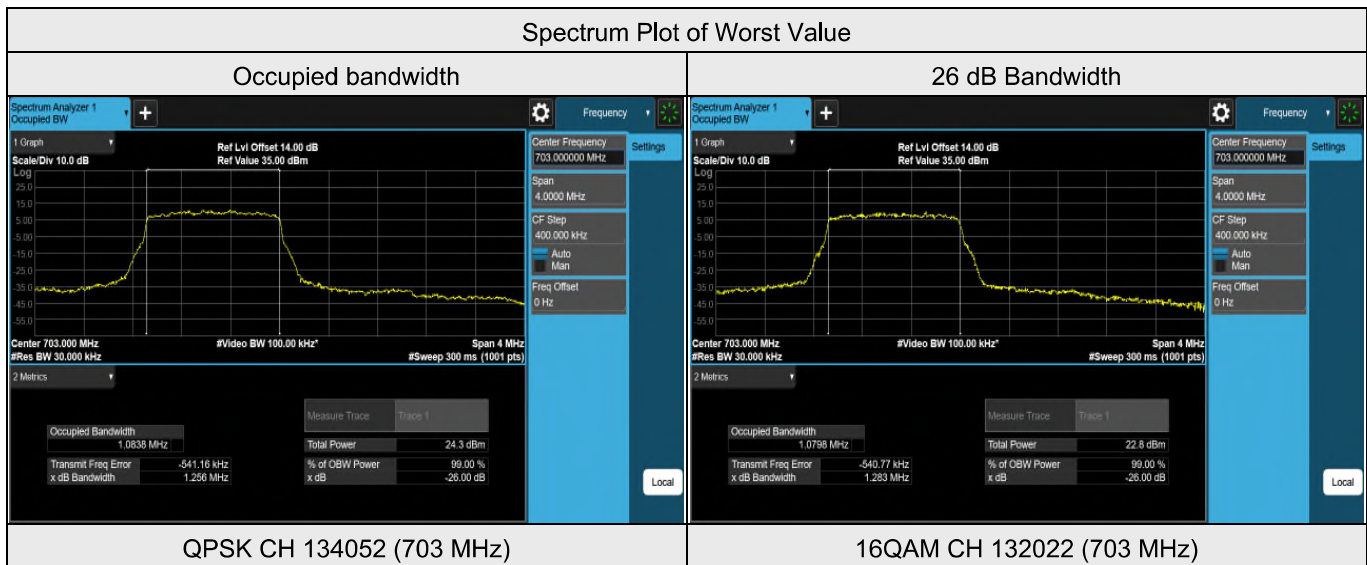
Cat-M1 Band 85, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	134027	700.5	1.0789	1.249
QPSK	134092	707	1.0810	1.259
QPSK	134157	713.5	1.0792	1.256
16QAM	134027	700.5	1.0775	1.275
16QAM	134092	707	1.0803	1.276
16QAM	134157	713.5	1.0810	1.284



Cat-M1 Band 85, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	134052	703	1.0838	1.256
QPSK	134092	707	1.0806	1.261
QPSK	134132	711	1.0828	1.257
16QAM	132022	703	1.0798	1.283
16QAM	132322	707	1.0787	1.268
16QAM	132622	711	1.0790	1.275

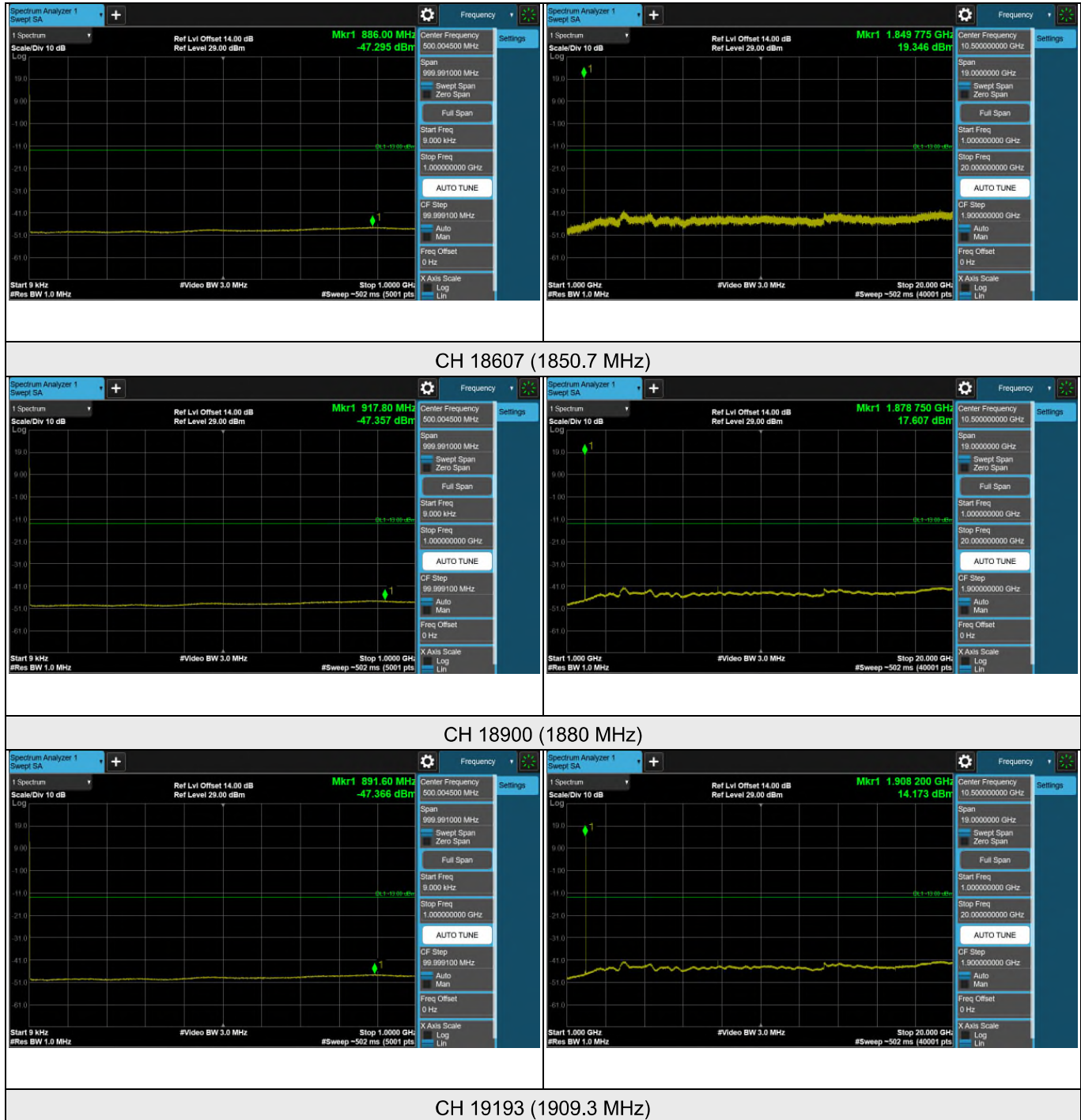


7.5 Conducted Spurious Emissions

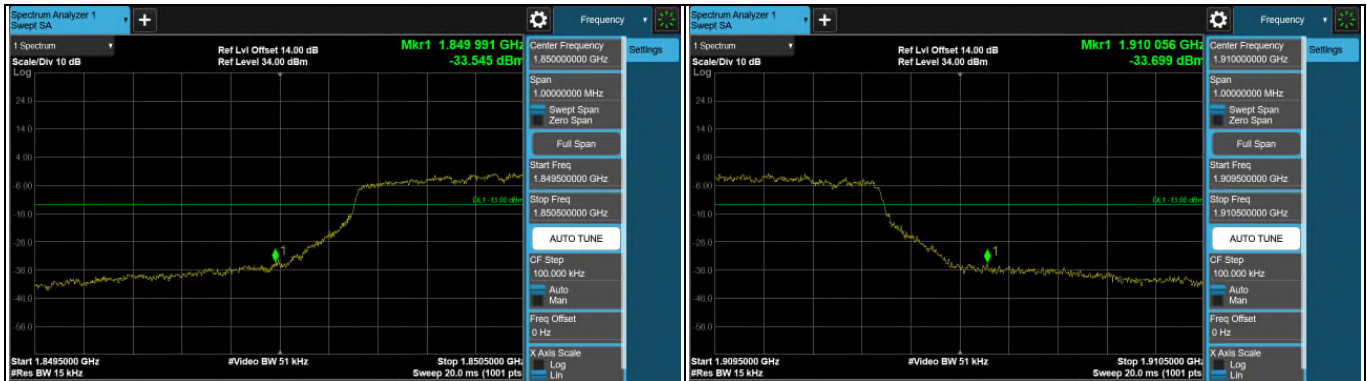
Input Power:	3.8 Vdc	Environmental Conditions:	22°C, 75% RH	Tested By:	Match Tsui
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7.5.1 Cat-M1 Band 2

Cat-M1 Band 2, Channel Bandwidth: 1.4 MHz



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



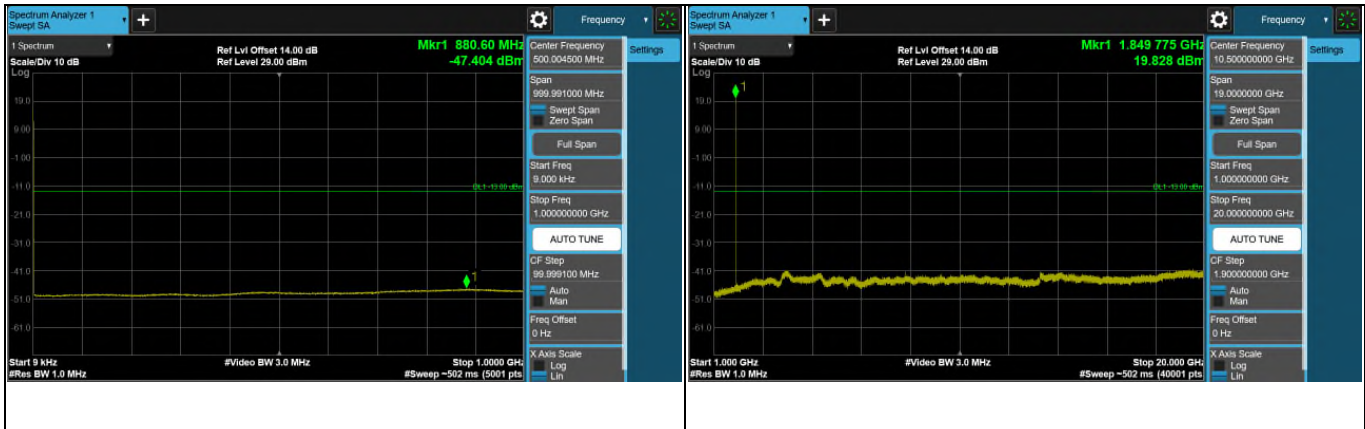
FULL CH 18607 (1850.7 MHz)



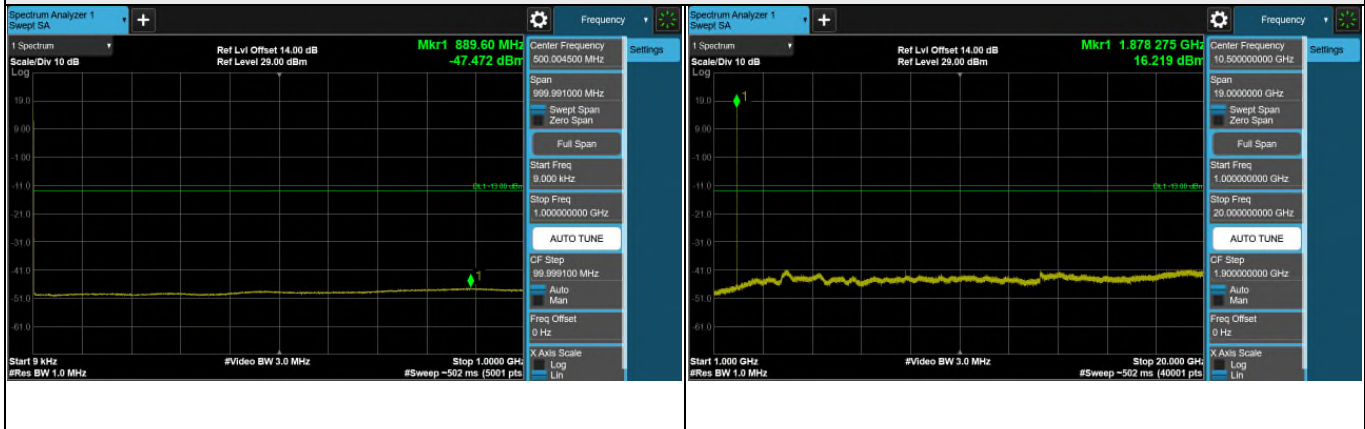
1RB CH 18607 (1850.7 MHz)

1RB CH 19193 (1909.3 MHz)

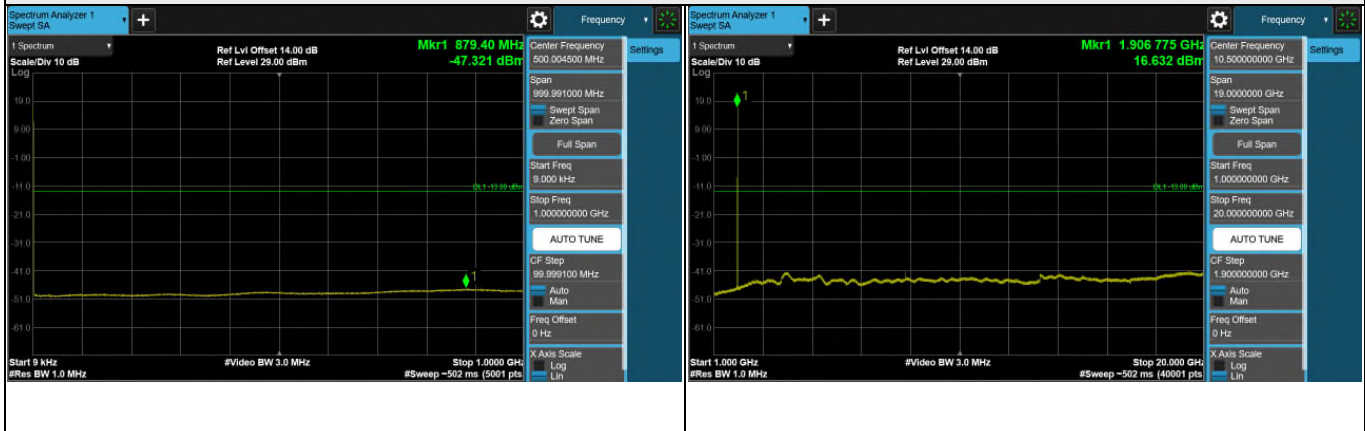
Cat-M1 Band 2, Channel Bandwidth: 3 MHz



CH 18615 (1851.5 MHz)



CH 18900 (1880 MHz)

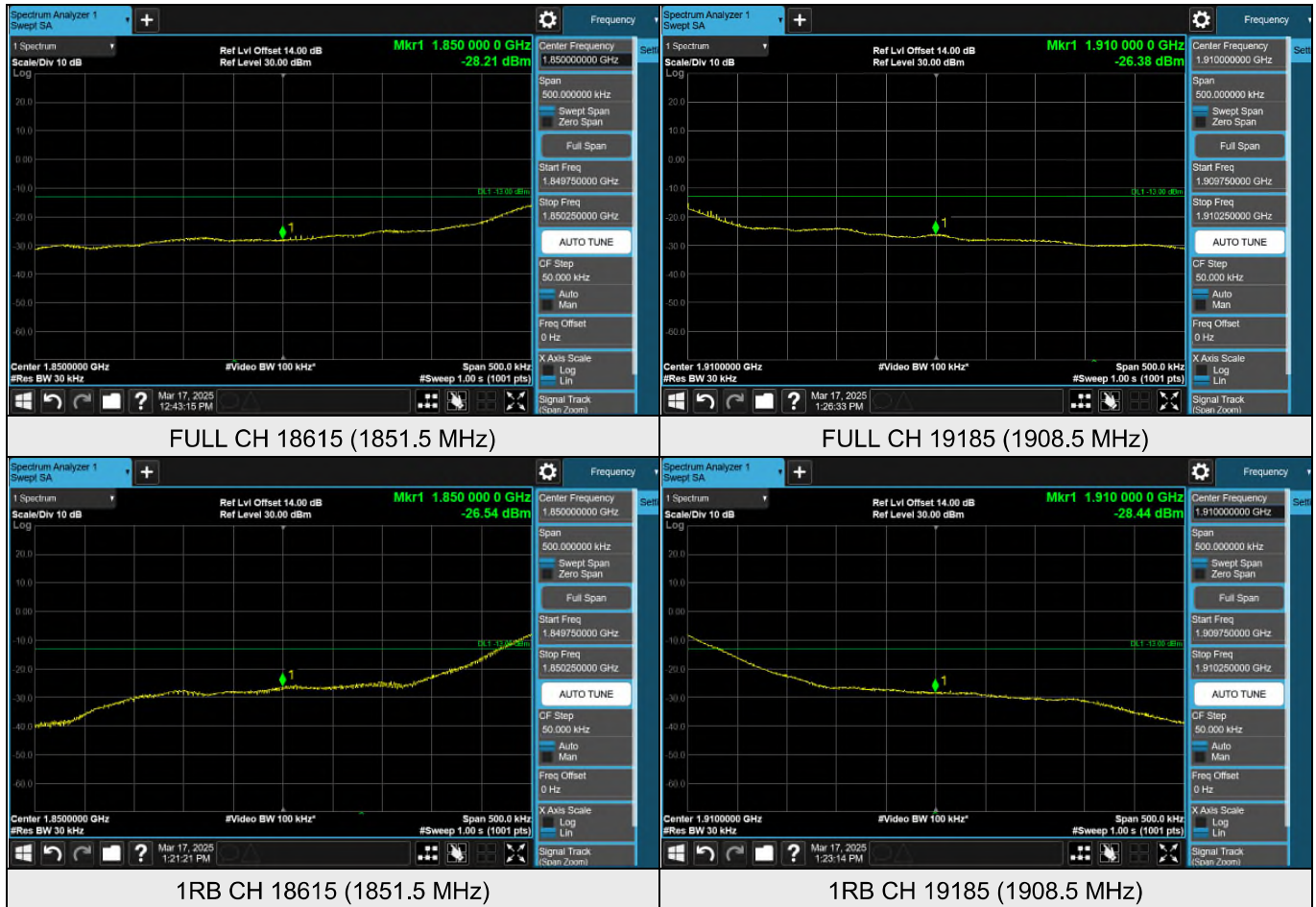


CH 19185 (1908.5 MHz)

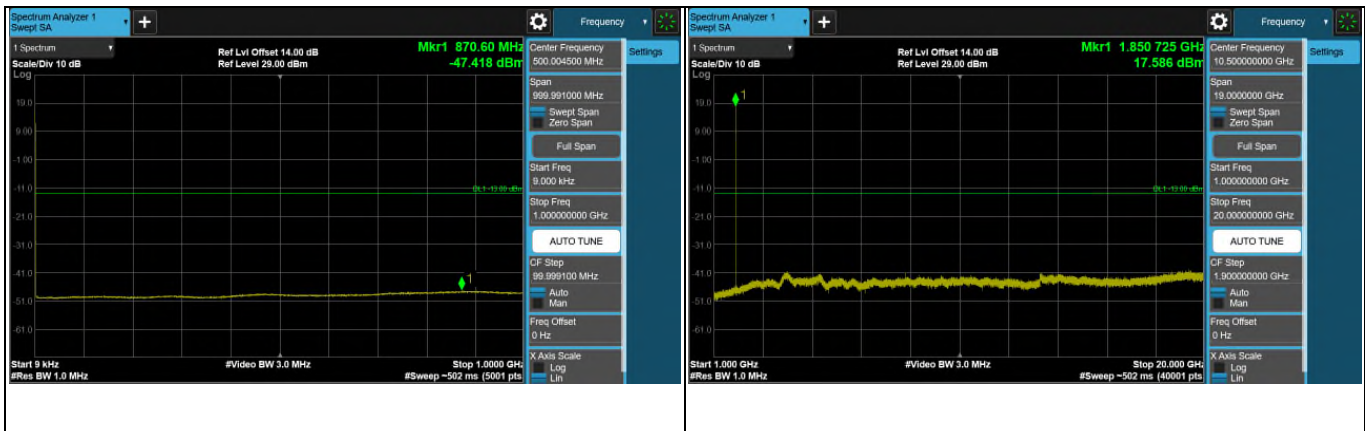
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



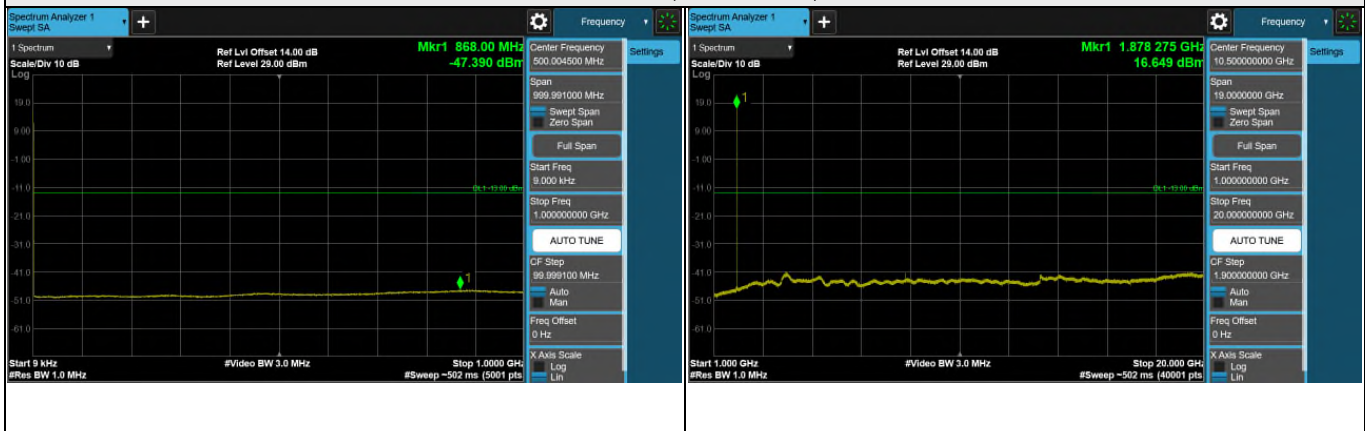
BUREAU
VERITAS



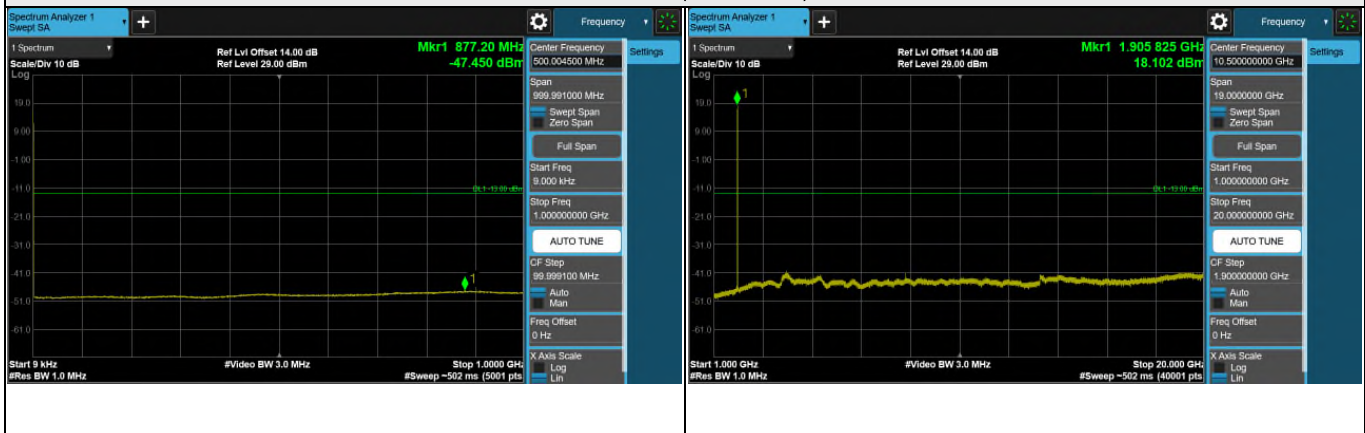
Cat-M1 Band 2, Channel Bandwidth: 5 MHz



CH 18625 (1852.5 MHz)



CH 18900 (1880 MHz)

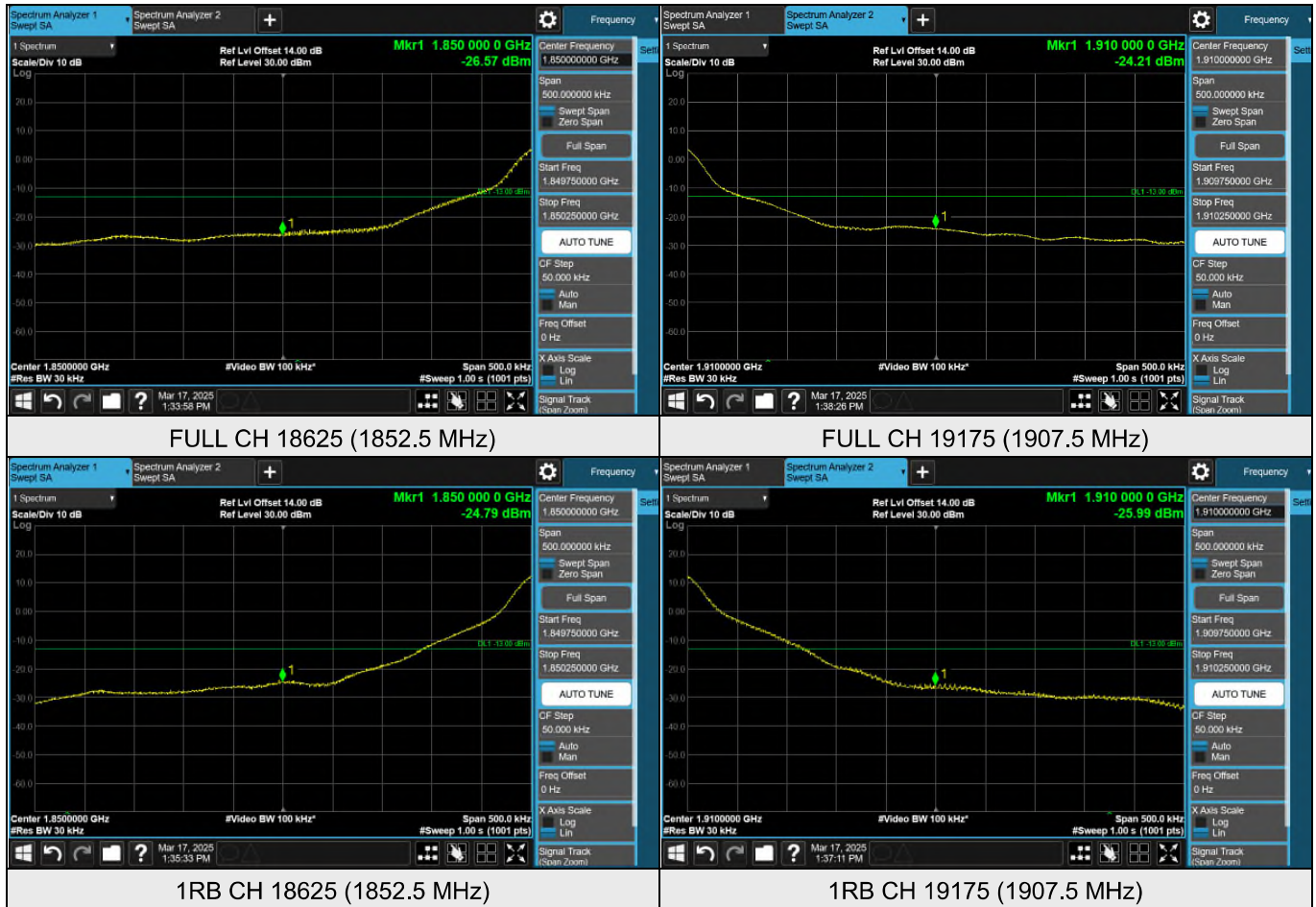


CH 19175 (1907.5 MHz)

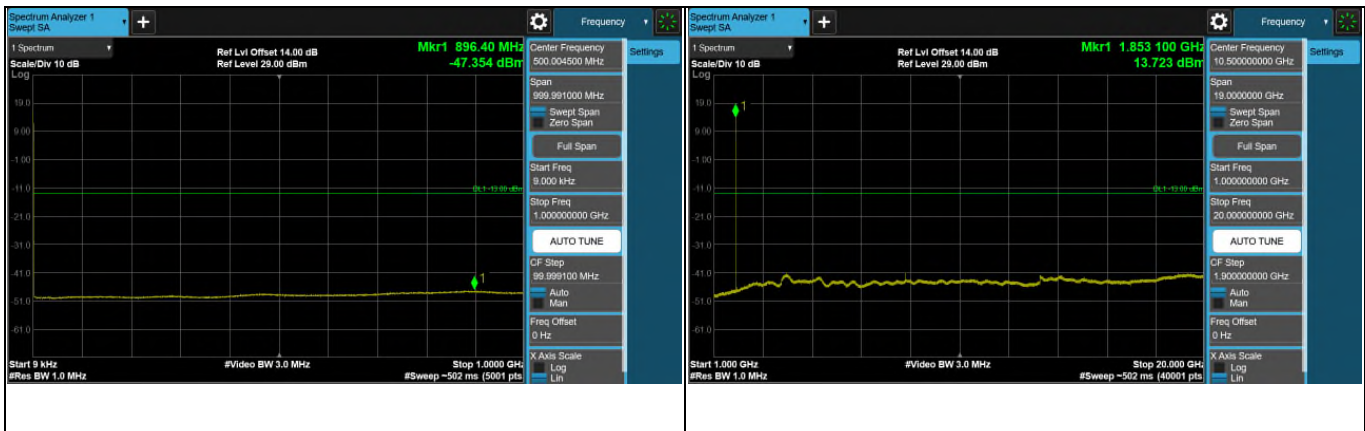
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



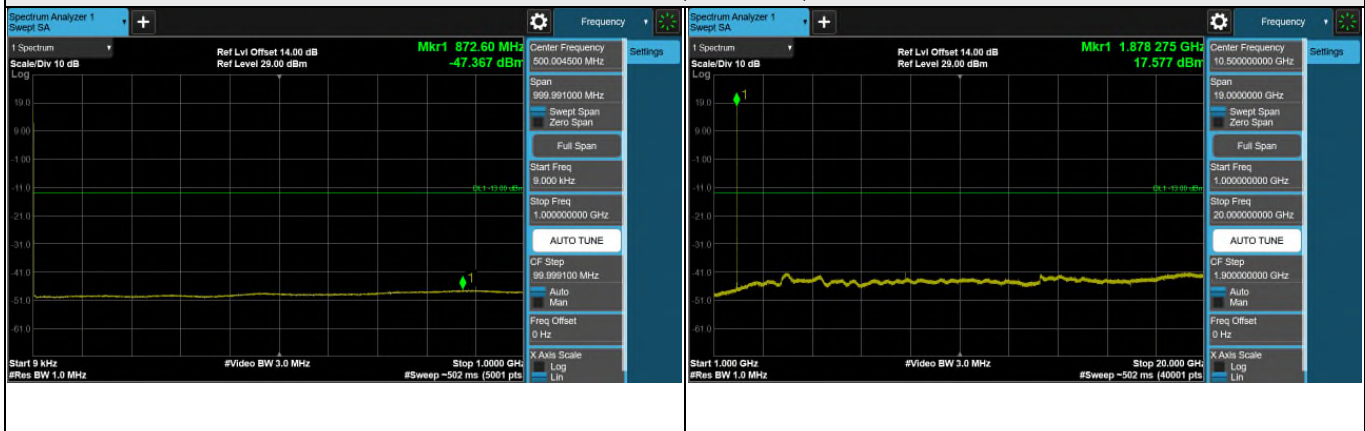
BUREAU
VERITAS



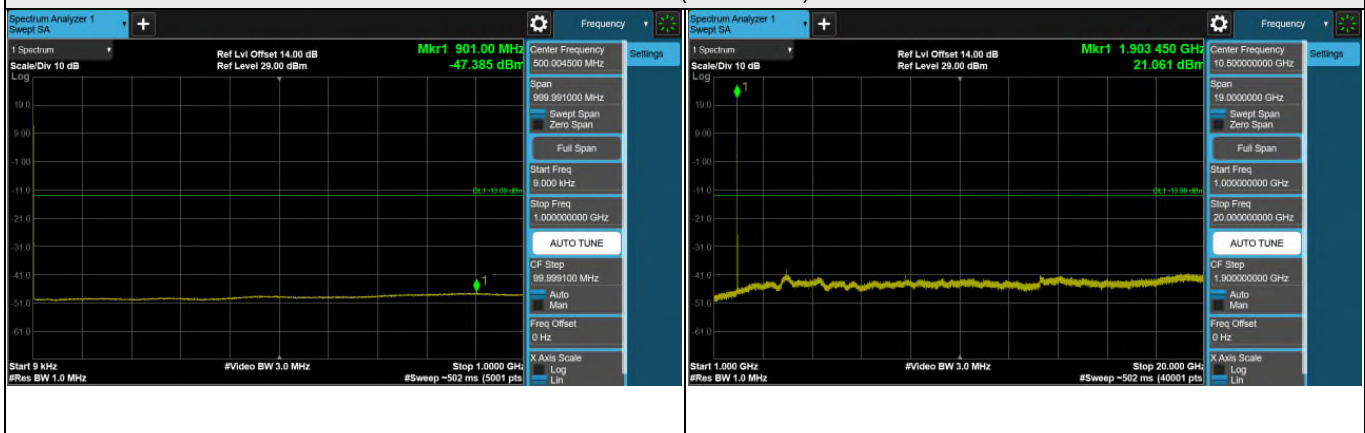
Cat-M1 Band 2, Channel Bandwidth: 10 MHz



CH 18650 (1855 MHz)



CH 18900 (1880 MHz)



CH 19150 (1905 MHz)

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

