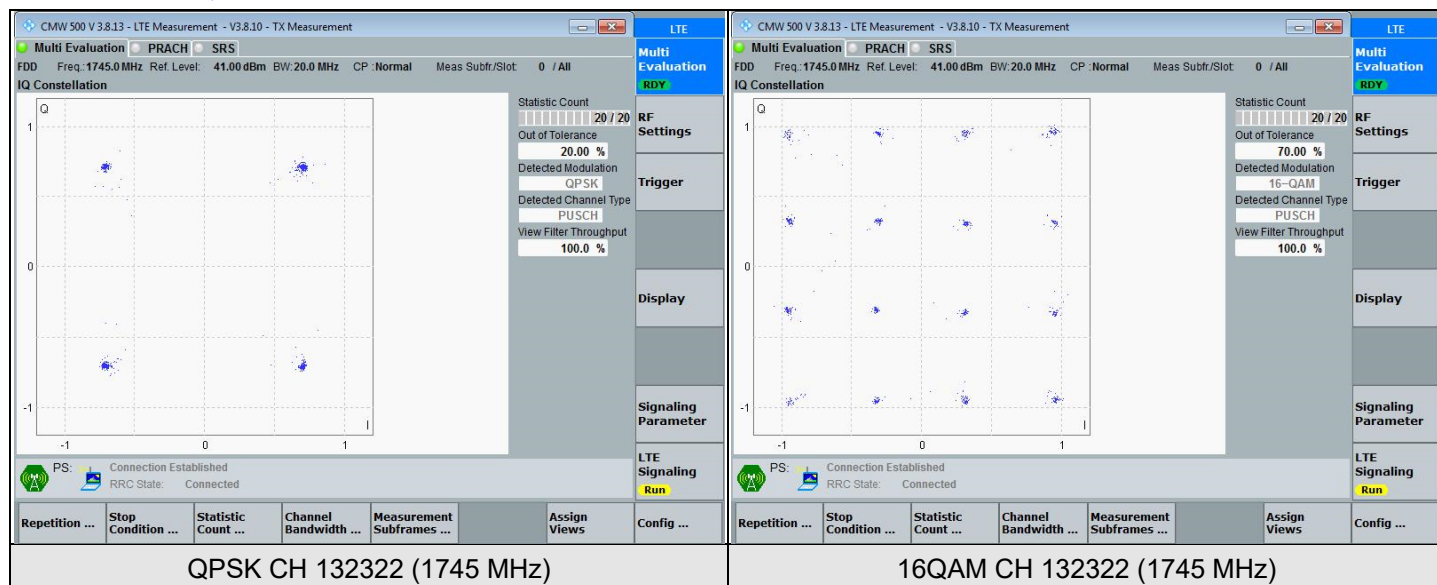


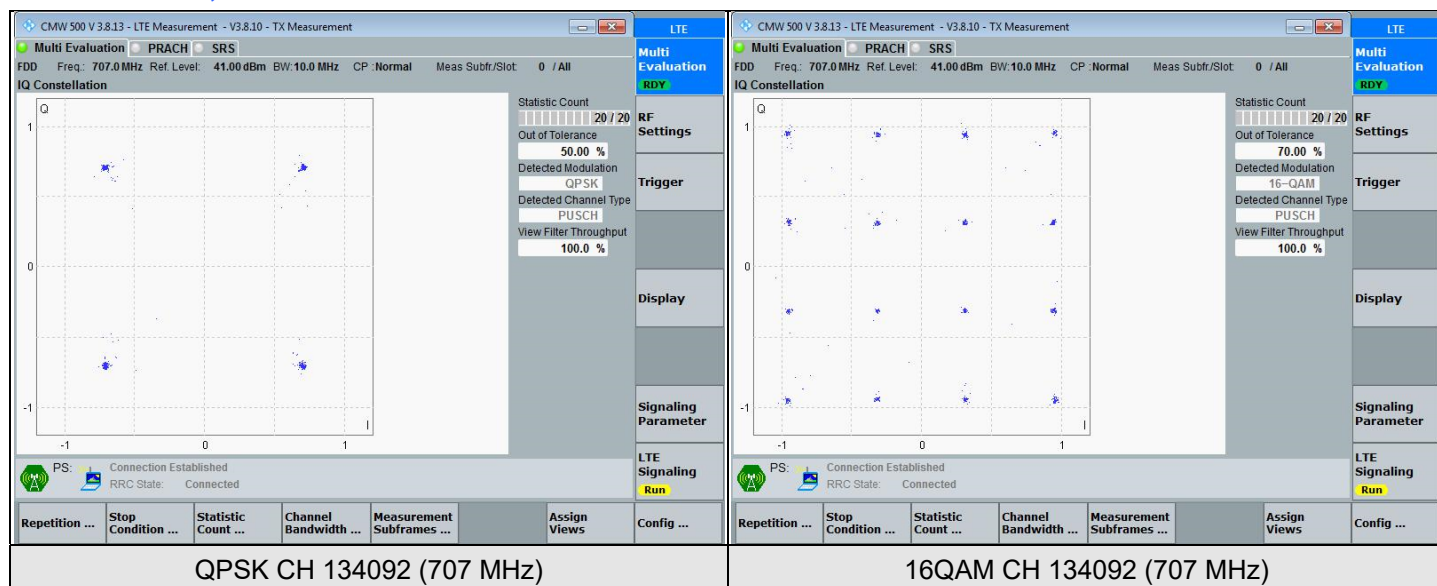
7.2.9 Cat-M1 Band 66

Cat-M1 Band 66, Channel Bandwidth: 20 MHz



7.2.10 Cat-M1 Band 85

Cat-M1 Band 85, Channel Bandwidth: 10 MHz



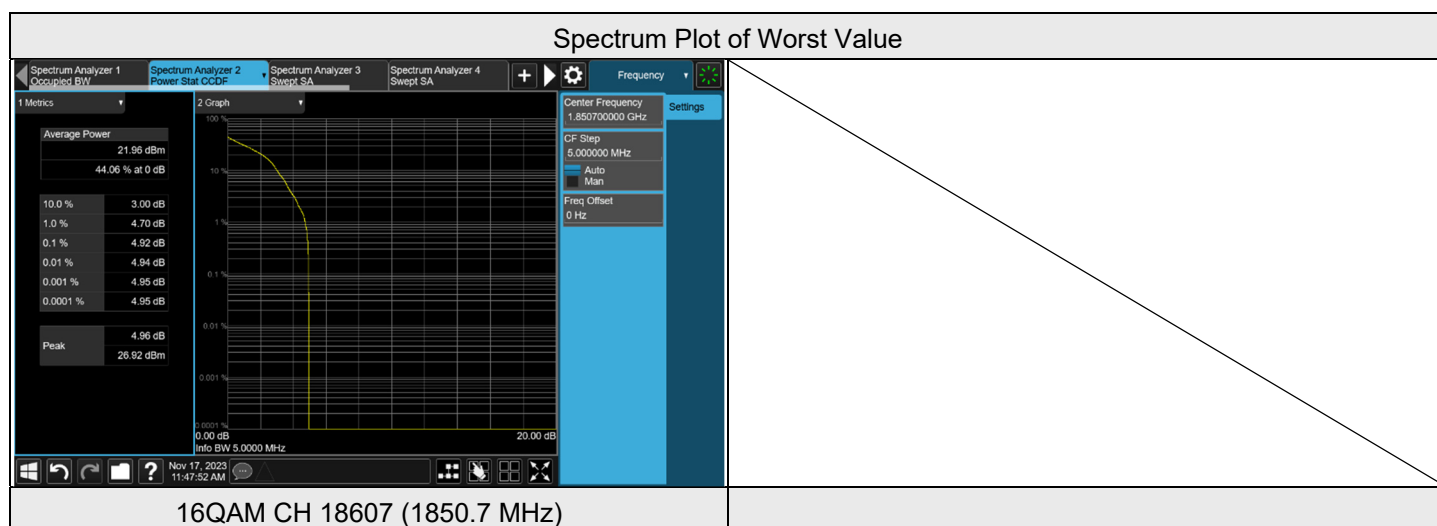
7.3 Peak to Average Ratio

Input Power:	7.2 Vdc	Environmental Conditions:	22°C, 75% RH	Tested By:	Willy Cheng
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7.3.1 Cat-M1 Band 2

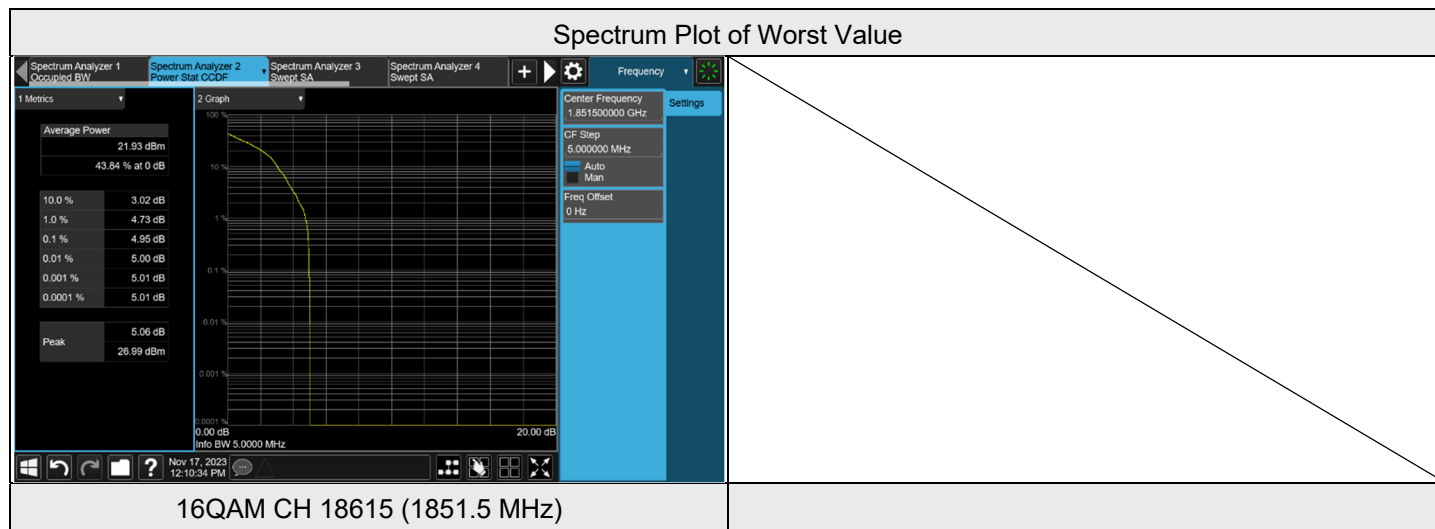
Cat-M1 Band 2, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	18607	1850.7	3.89	13	Pass
QPSK	18900	1880	3.63	13	Pass
QPSK	19193	1909.3	3.60	13	Pass
16QAM	18607	1850.7	4.92	13	Pass
16QAM	18900	1880	4.69	13	Pass
16QAM	19193	1909.3	4.62	13	Pass



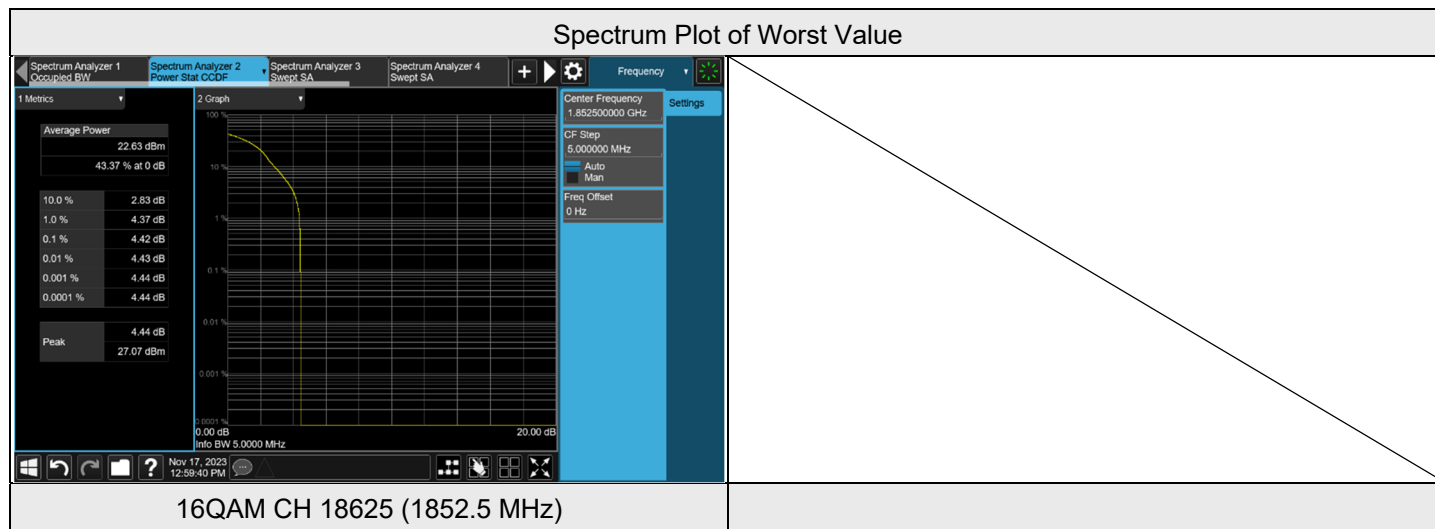
Cat-M1 Band 2, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	18615	1851.5	3.90	13	Pass
QPSK	18900	1880	3.63	13	Pass
QPSK	19185	1908.5	3.67	13	Pass
16QAM	18615	1851.5	4.95	13	Pass
16QAM	18900	1880	4.75	13	Pass
16QAM	19185	1908.5	4.66	13	Pass



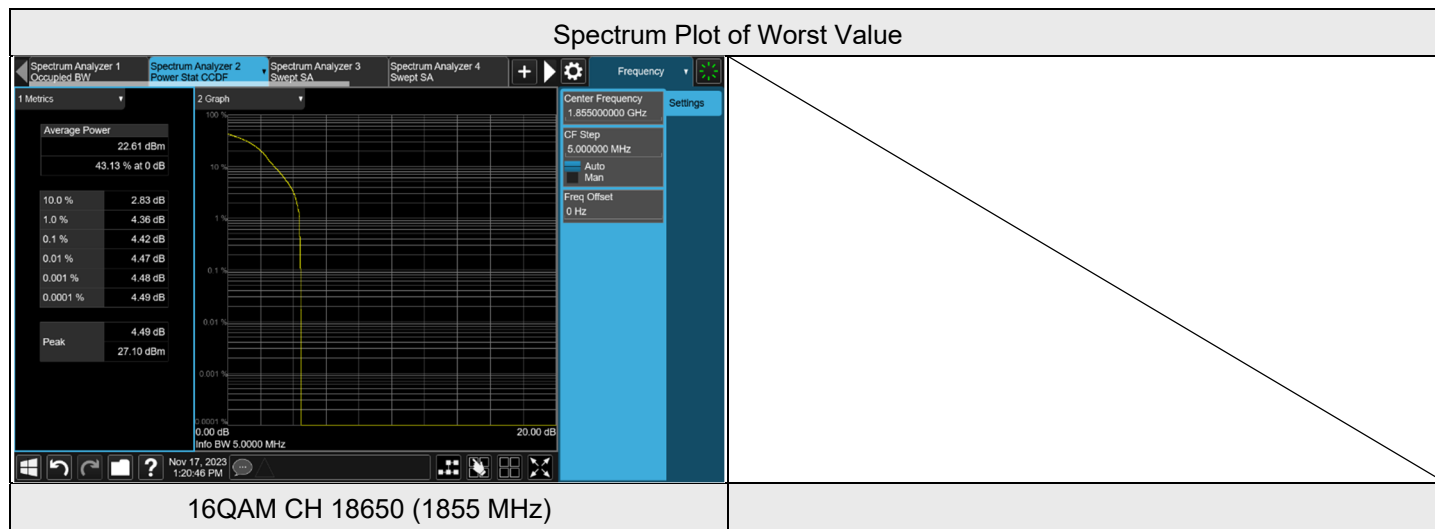
Cat-M1 Band 2, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	18625	1852.5	3.91	13	Pass
QPSK	18900	1880	3.53	13	Pass
QPSK	19175	1907.5	3.92	13	Pass
16QAM	18625	1852.5	4.42	13	Pass
16QAM	18900	1880	4.08	13	Pass
16QAM	19175	1907.5	4.30	13	Pass



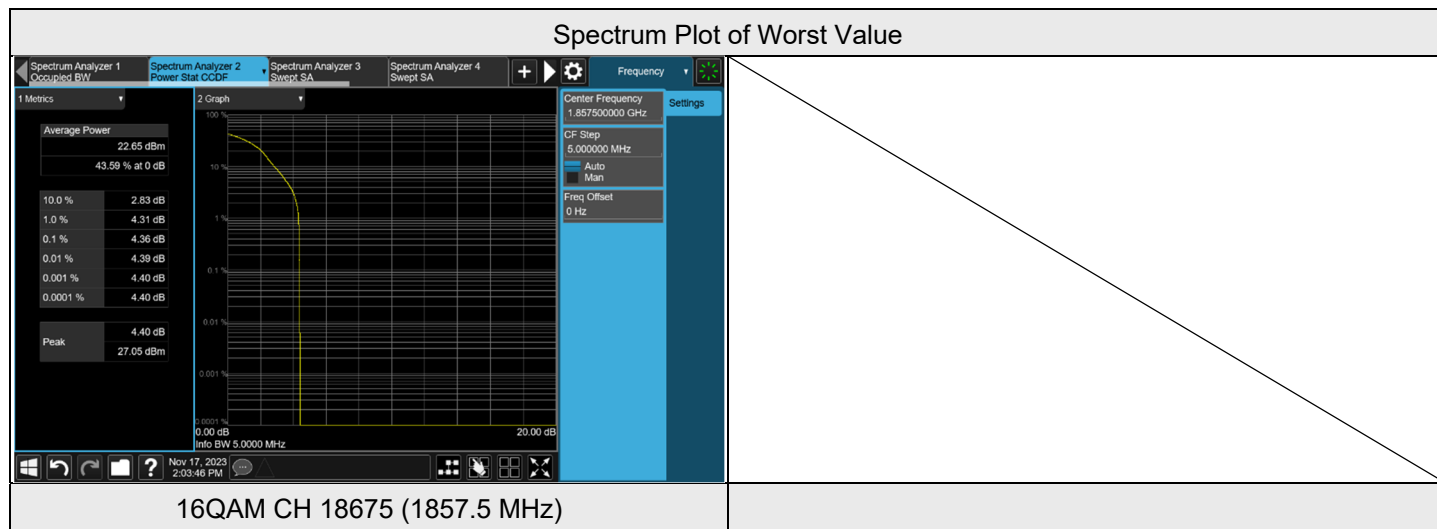
Cat-M1 Band 2, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	18650	1855	3.86	13	Pass
QPSK	18900	1880	3.92	13	Pass
QPSK	19150	1905	3.80	13	Pass
16QAM	18650	1855	4.42	13	Pass
16QAM	18900	1880	4.20	13	Pass
16QAM	19150	1905	4.11	13	Pass



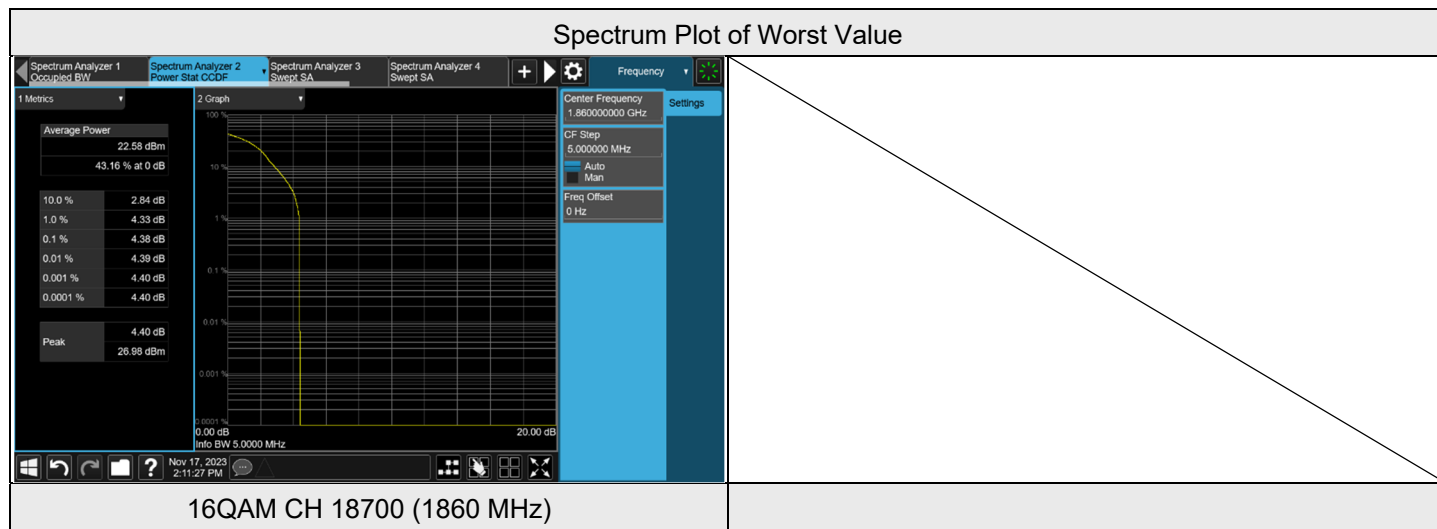
Cat-M1 Band 2, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	18675	1857.5	3.95	13	Pass
QPSK	18900	1880	3.78	13	Pass
QPSK	19125	1902.5	3.80	13	Pass
16QAM	18675	1857.5	4.36	13	Pass
16QAM	18900	1880	4.20	13	Pass
16QAM	19125	1902.5	4.26	13	Pass



Cat-M1 Band 2, Channel Bandwidth: 20 MHz

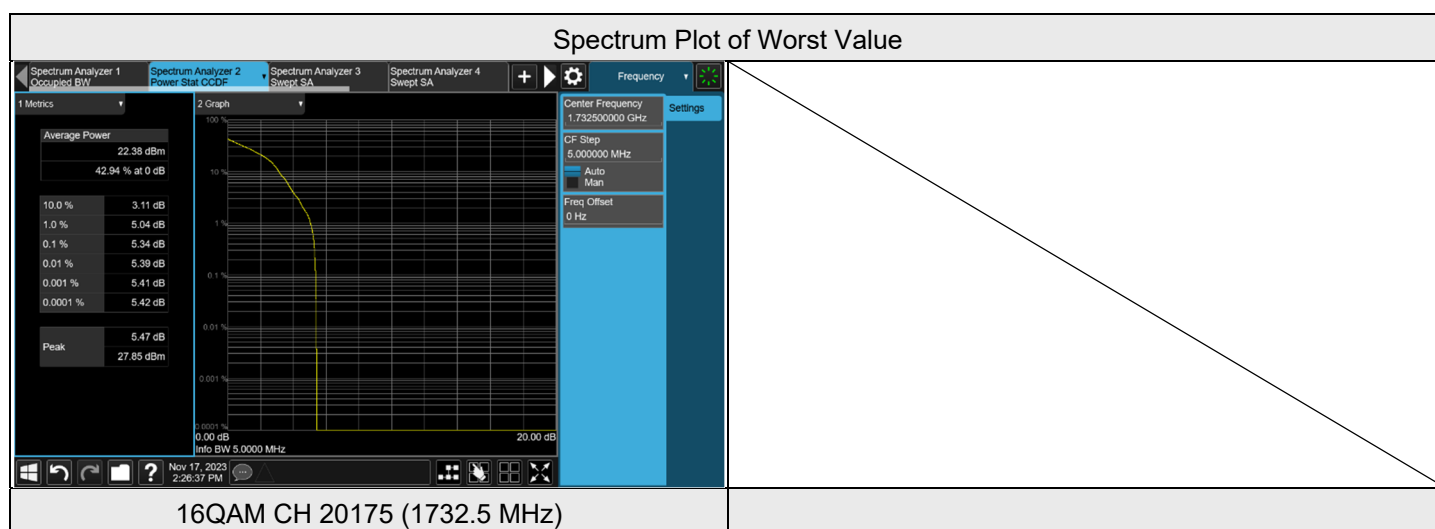
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	18700	1860	3.84	13	Pass
QPSK	18900	1880	3.91	13	Pass
QPSK	19100	1900	3.87	13	Pass
16QAM	18700	1860	4.38	13	Pass
16QAM	18900	1880	4.16	13	Pass
16QAM	19100	1900	4.19	13	Pass



7.3.2 Cat-M1 Band 4

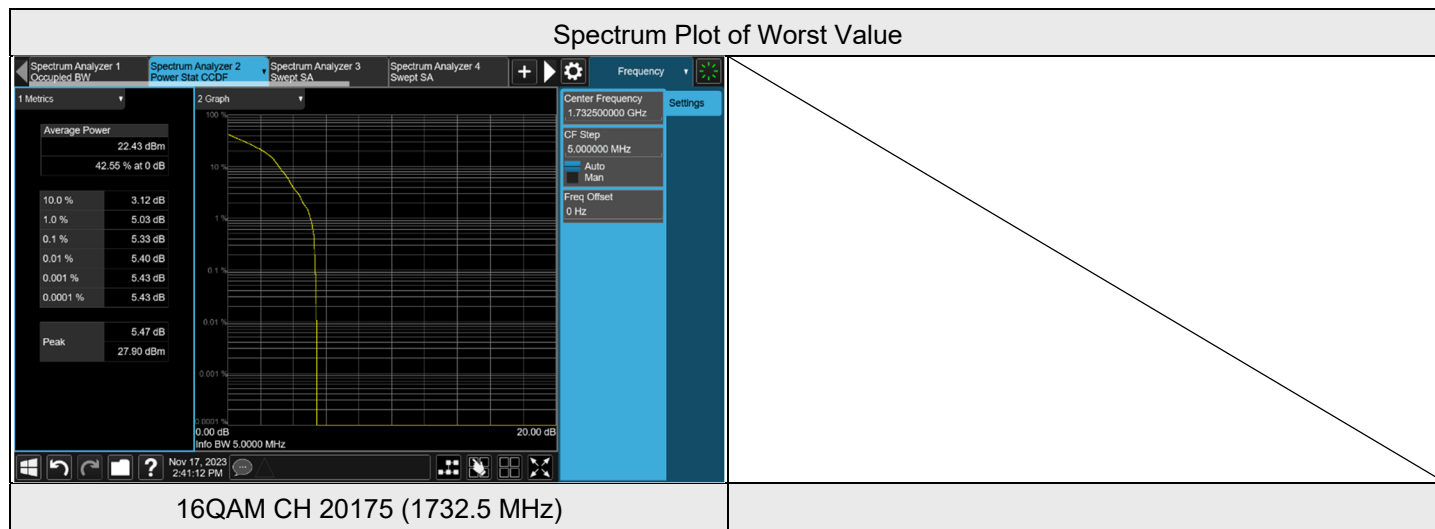
Cat-M1 Band 4, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	19957	1710.7	4.28	13	Pass
QPSK	20175	1732.5	4.33	13	Pass
QPSK	20393	1754.3	4.31	13	Pass
16QAM	19957	1710.7	5.25	13	Pass
16QAM	20175	1732.5	5.34	13	Pass
16QAM	20393	1754.3	5.21	13	Pass



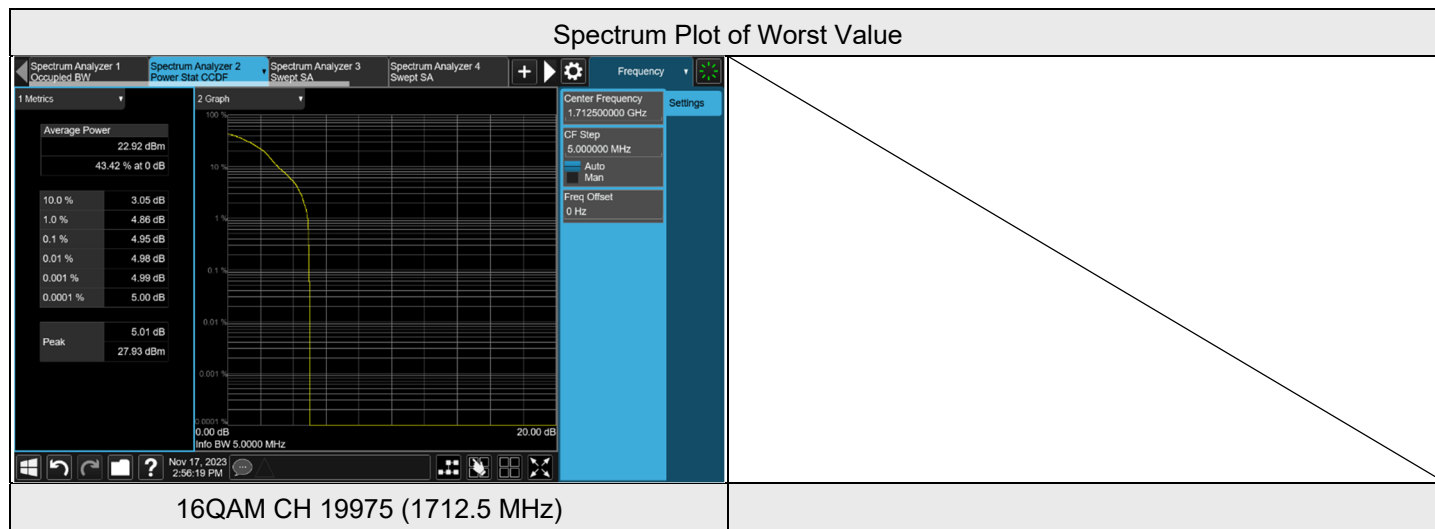
Cat-M1 Band 4, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	19965	1711.5	4.30	13	Pass
QPSK	20175	1732.5	4.41	13	Pass
QPSK	20385	1753.5	4.18	13	Pass
16QAM	19965	1711.5	5.25	13	Pass
16QAM	20175	1732.5	5.33	13	Pass
16QAM	20385	1753.5	5.14	13	Pass



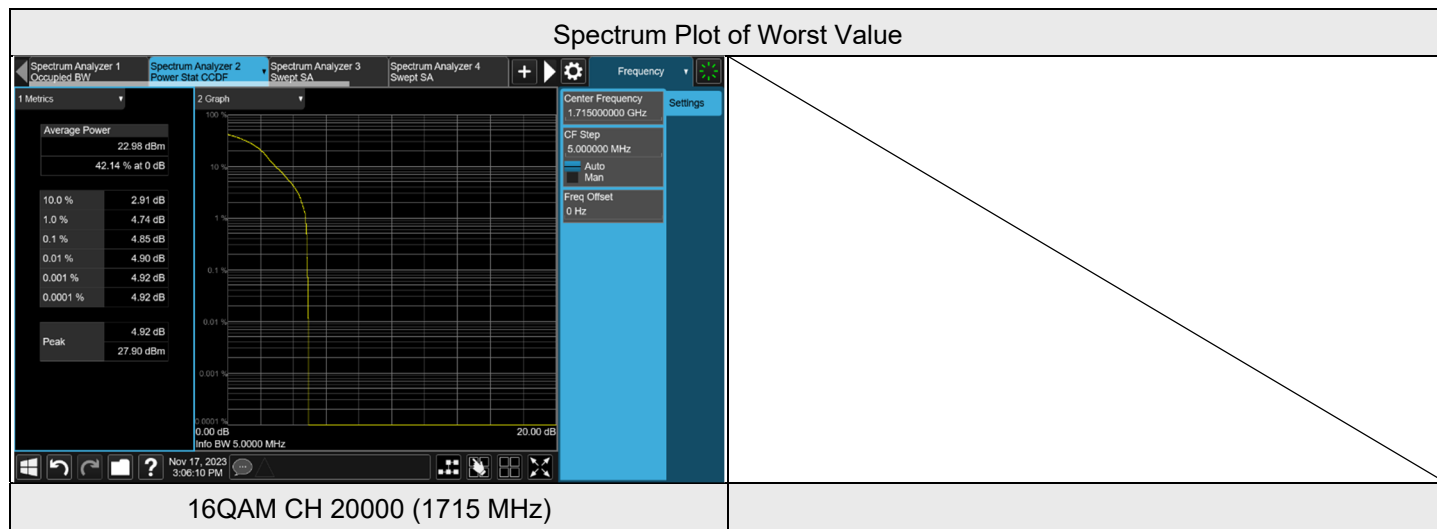
Cat-M1 Band 4, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	19975	1712.5	4.35	13	Pass
QPSK	20175	1732.5	4.39	13	Pass
QPSK	20375	1752.5	4.33	13	Pass
16QAM	19975	1712.5	4.95	13	Pass
16QAM	20175	1732.5	4.83	13	Pass
16QAM	20375	1752.5	4.89	13	Pass



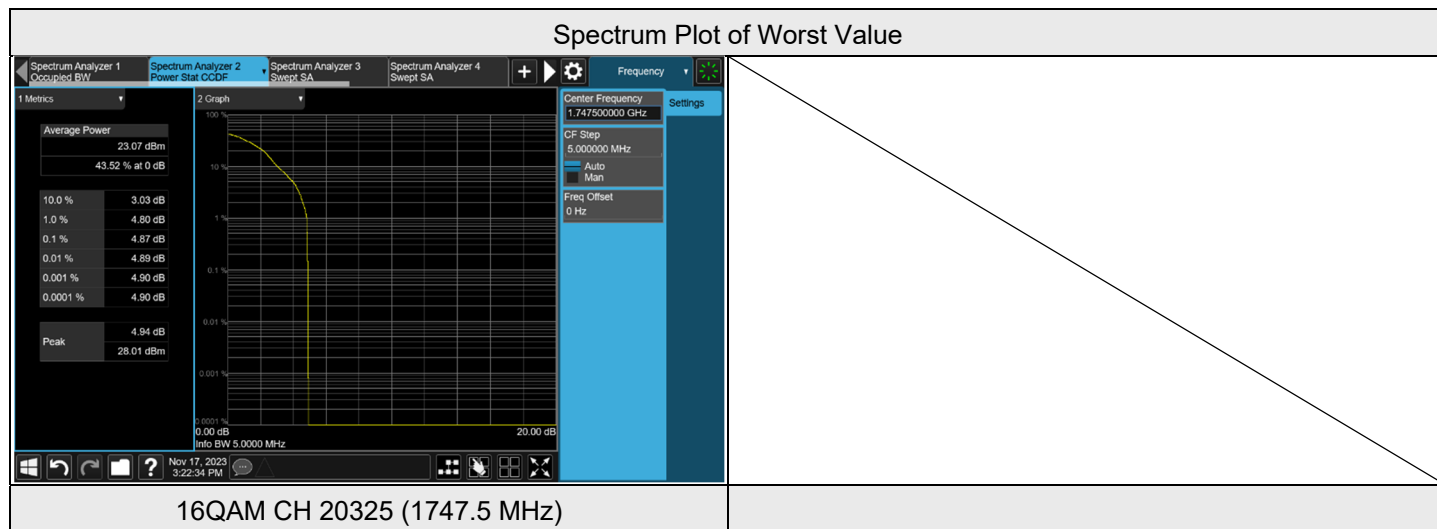
Cat-M1 Band 4, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	20000	1715	4.34	13	Pass
QPSK	20175	1732.5	4.34	13	Pass
QPSK	20350	1750	4.31	13	Pass
16QAM	20000	1715	4.85	13	Pass
16QAM	20175	1732.5	4.81	13	Pass
16QAM	20350	1750	4.76	13	Pass



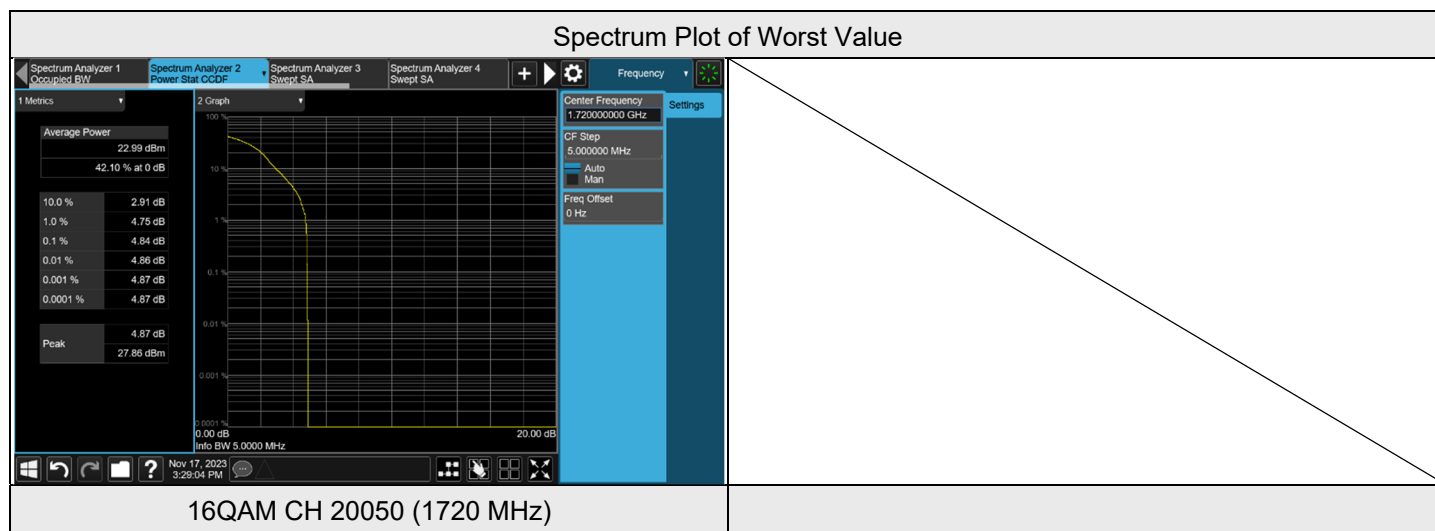
Cat-M1 Band 4, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	20025	1717.5	4.36	13	Pass
QPSK	20175	1732.5	4.36	13	Pass
QPSK	20325	1747.5	4.31	13	Pass
16QAM	20025	1717.5	4.82	13	Pass
16QAM	20175	1732.5	4.83	13	Pass
16QAM	20325	1747.5	4.87	13	Pass



Cat-M1 Band 4, Channel Bandwidth: 20 MHz

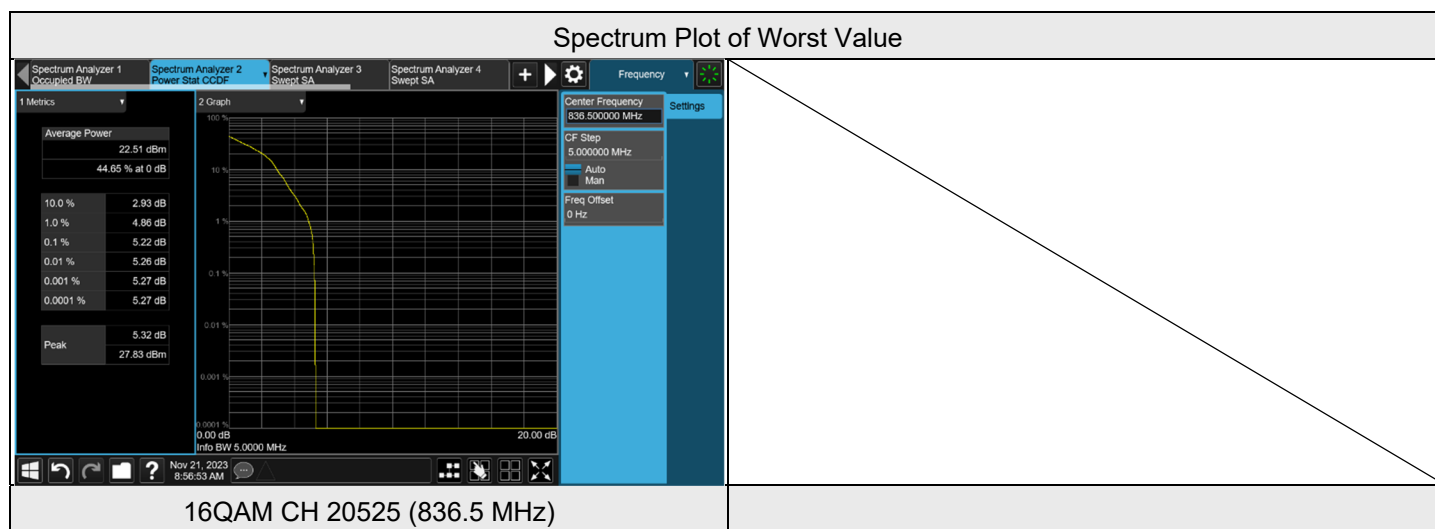
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	20050	1720	4.36	13	Pass
QPSK	20175	1732.5	4.35	13	Pass
QPSK	20300	1745	4.35	13	Pass
16QAM	20050	1720	4.84	13	Pass
16QAM	20175	1732.5	4.83	13	Pass
16QAM	20300	1745	4.81	13	Pass



7.3.3 Cat-M1 Band 5

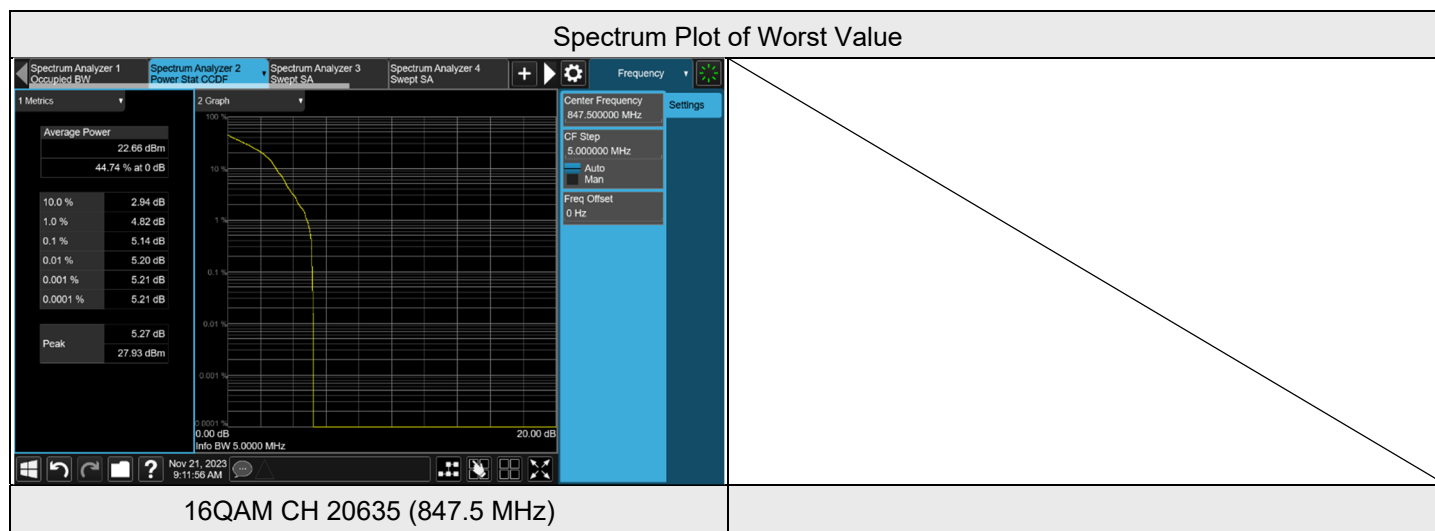
Cat-M1 Band 5, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	20407	824.7	4.12	13	Pass
QPSK	20525	836.5	4.25	13	Pass
QPSK	20643	848.3	4.13	13	Pass
16QAM	20407	824.7	5.18	13	Pass
16QAM	20525	836.5	5.22	13	Pass
16QAM	20643	848.3	5.18	13	Pass



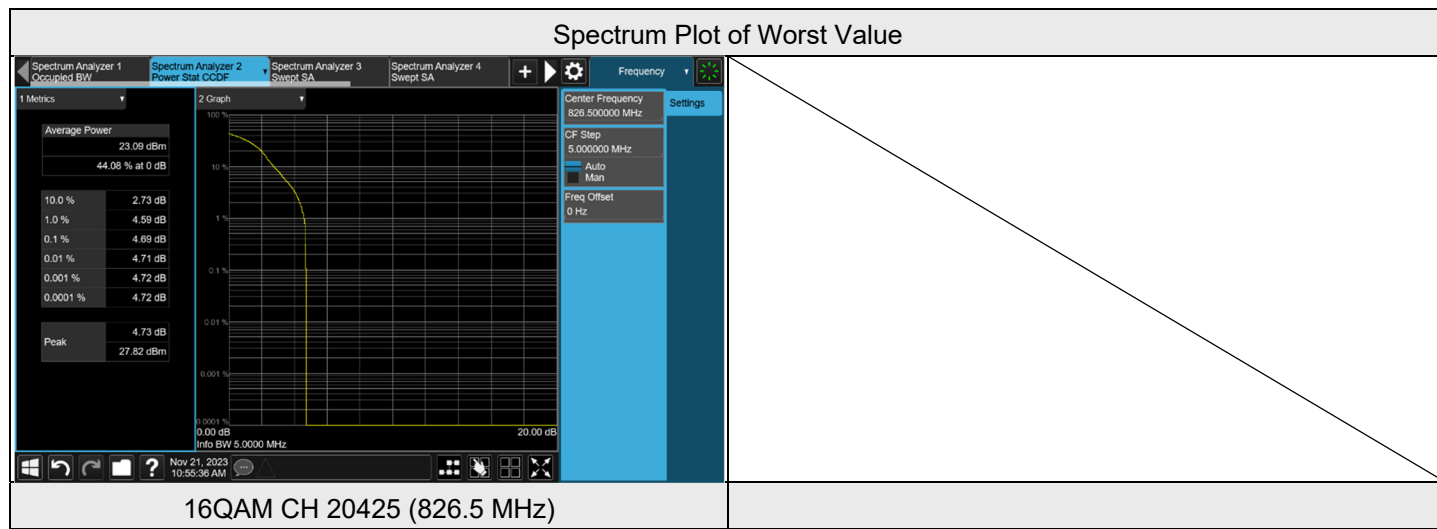
Cat-M1 Band 5, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	20415	825.5	4.09	13	Pass
QPSK	20525	836.5	4.08	13	Pass
QPSK	20635	847.5	4.15	13	Pass
16QAM	20415	825.5	5.13	13	Pass
16QAM	20525	836.5	5.13	13	Pass
16QAM	20635	847.5	5.14	13	Pass



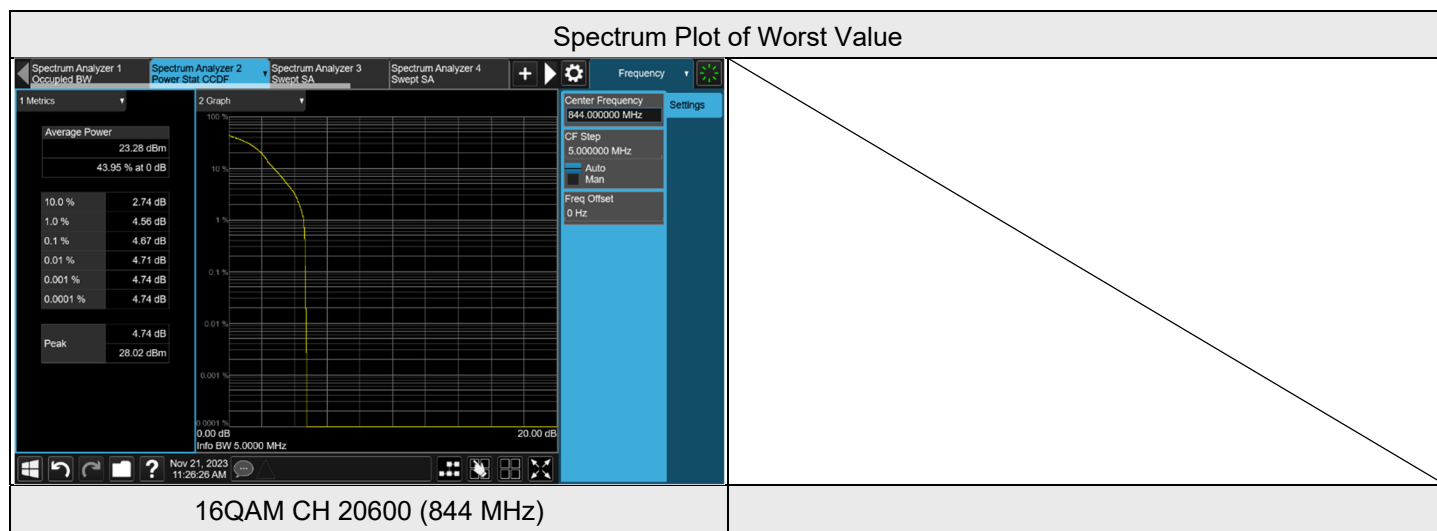
Cat-M1 Band 5, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	20425	826.5	4.10	13	Pass
QPSK	20525	836.5	4.11	13	Pass
QPSK	20625	846.5	4.16	13	Pass
16QAM	20425	826.5	4.69	13	Pass
16QAM	20525	836.5	4.64	13	Pass
16QAM	20625	846.5	4.66	13	Pass



Cat-M1 Band 5, Channel Bandwidth: 10 MHz

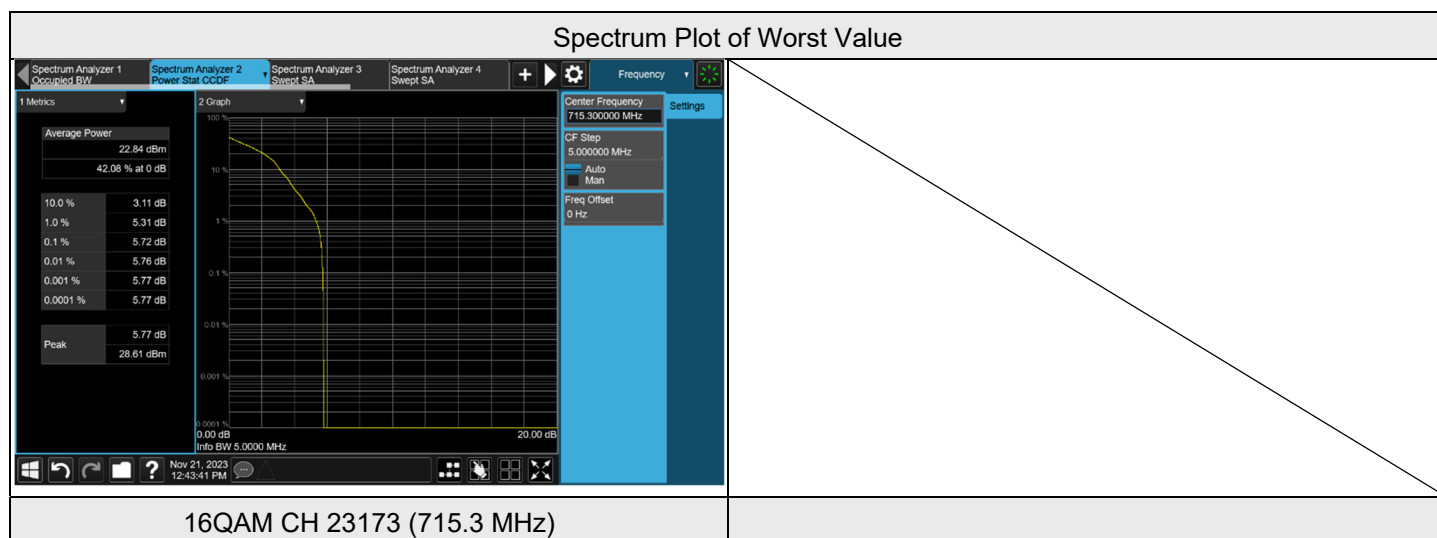
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	20450	829	4.11	13	Pass
QPSK	20525	836.5	4.13	13	Pass
QPSK	20600	844	4.13	13	Pass
16QAM	20450	829	4.67	13	Pass
16QAM	20525	836.5	4.66	13	Pass
16QAM	20600	844	4.67	13	Pass



7.3.4 Cat-M1 Band 12

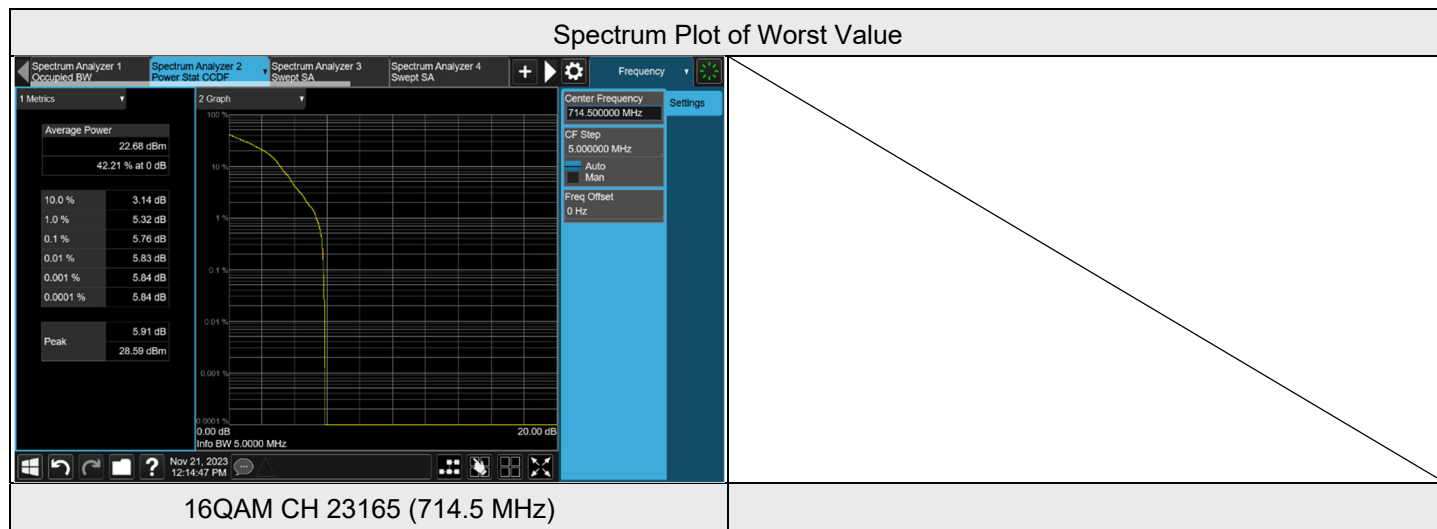
Cat-M1 Band 12, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	23017	699.7	4.67	13	Pass
QPSK	23095	707.5	4.60	13	Pass
QPSK	23173	715.3	4.59	13	Pass
16QAM	23017	699.7	5.71	13	Pass
16QAM	23095	707.5	5.64	13	Pass
16QAM	23173	715.3	5.72	13	Pass



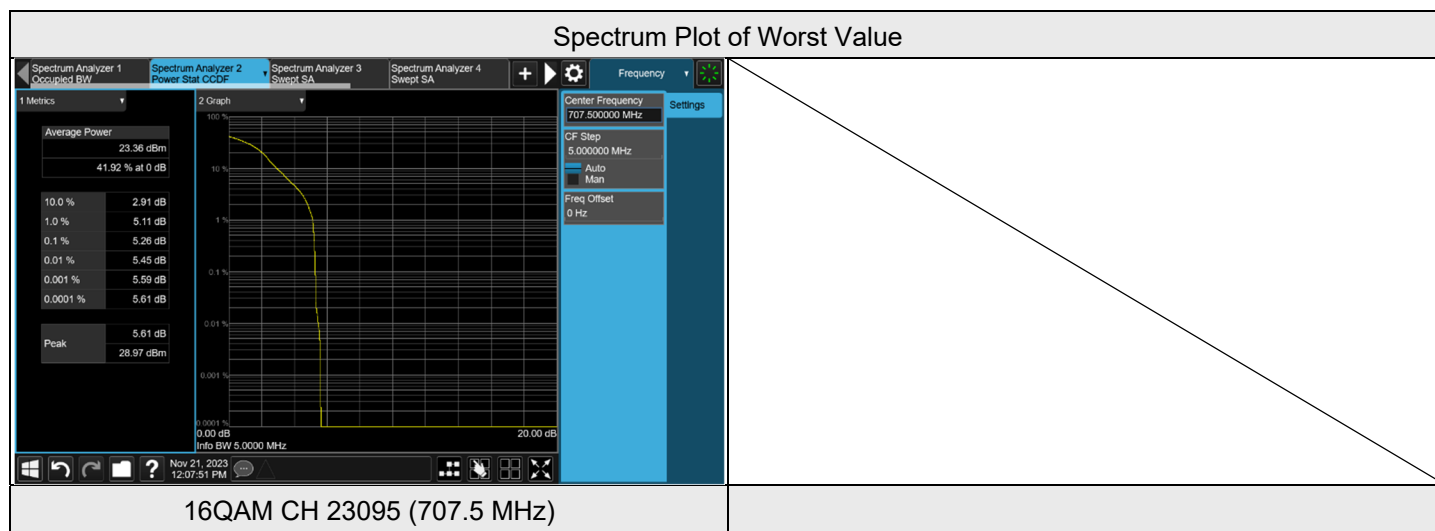
Cat-M1 Band 12, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	23025	700.5	4.59	13	Pass
QPSK	23095	707.5	4.63	13	Pass
QPSK	23165	714.5	4.58	13	Pass
16QAM	23025	700.5	5.69	13	Pass
16QAM	23095	707.5	5.64	13	Pass
16QAM	23165	714.5	5.76	13	Pass



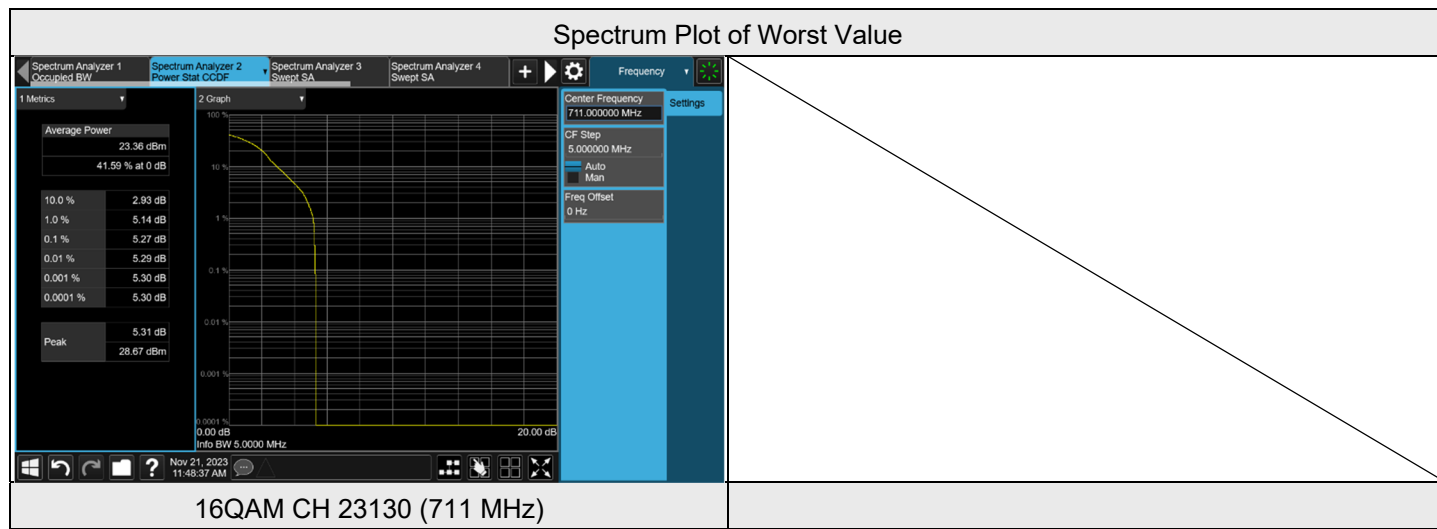
Cat-M1 Band 12, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	23035	701.5	4.66	13	Pass
QPSK	23095	707.5	4.61	13	Pass
QPSK	23155	713.5	4.58	13	Pass
16QAM	23035	701.5	5.22	13	Pass
16QAM	23095	707.5	5.26	13	Pass
16QAM	23155	713.5	5.25	13	Pass



Cat-M1 Band 12, Channel Bandwidth: 10 MHz

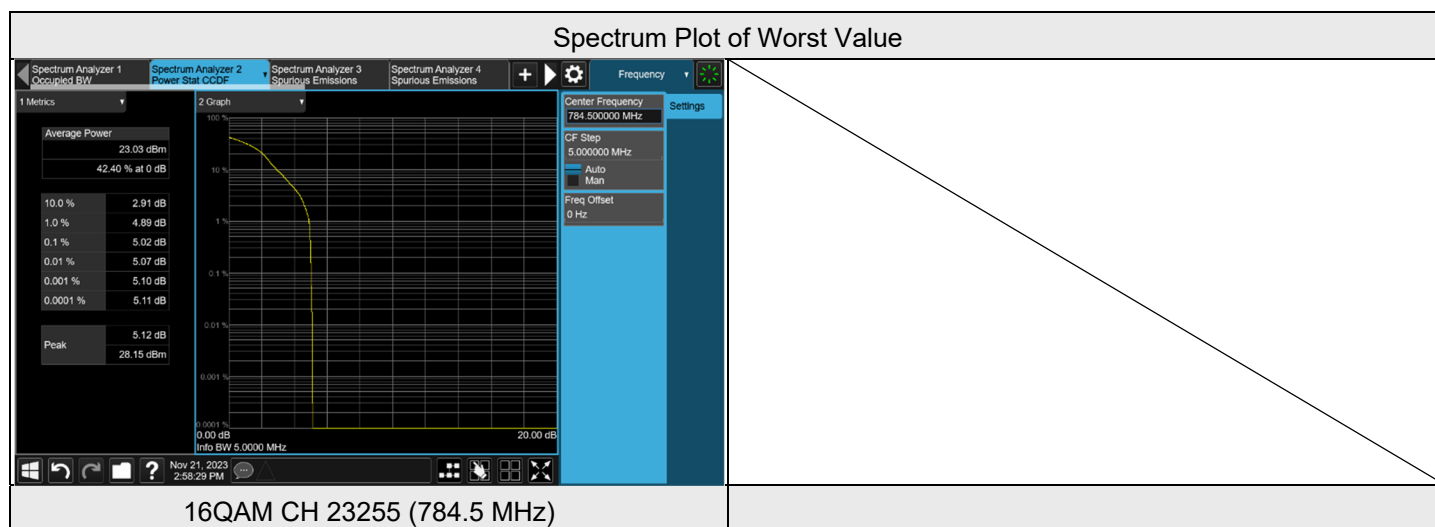
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	23060	704	4.65	13	Pass
QPSK	23095	707.5	4.63	13	Pass
QPSK	23130	711	4.58	13	Pass
16QAM	23060	704	5.25	13	Pass
16QAM	23095	707.5	5.26	13	Pass
16QAM	23130	711	5.27	13	Pass



7.3.5 Cat-M1 Band 13

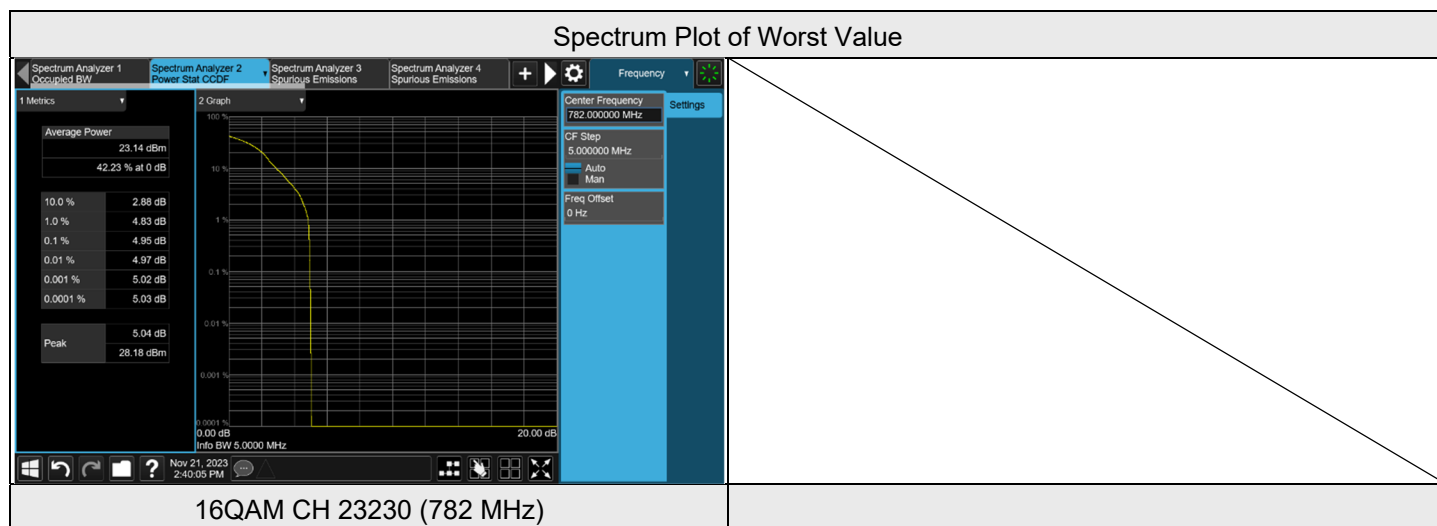
Cat-M1 Band 13, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	23205	779.5	4.50	13	Pass
QPSK	23230	782	4.46	13	Pass
QPSK	23255	784.5	4.48	13	Pass
16QAM	23205	779.5	4.93	13	Pass
16QAM	23230	782	4.93	13	Pass
16QAM	23255	784.5	5.02	13	Pass



Cat-M1 Band 13, Channel Bandwidth: 10 MHz

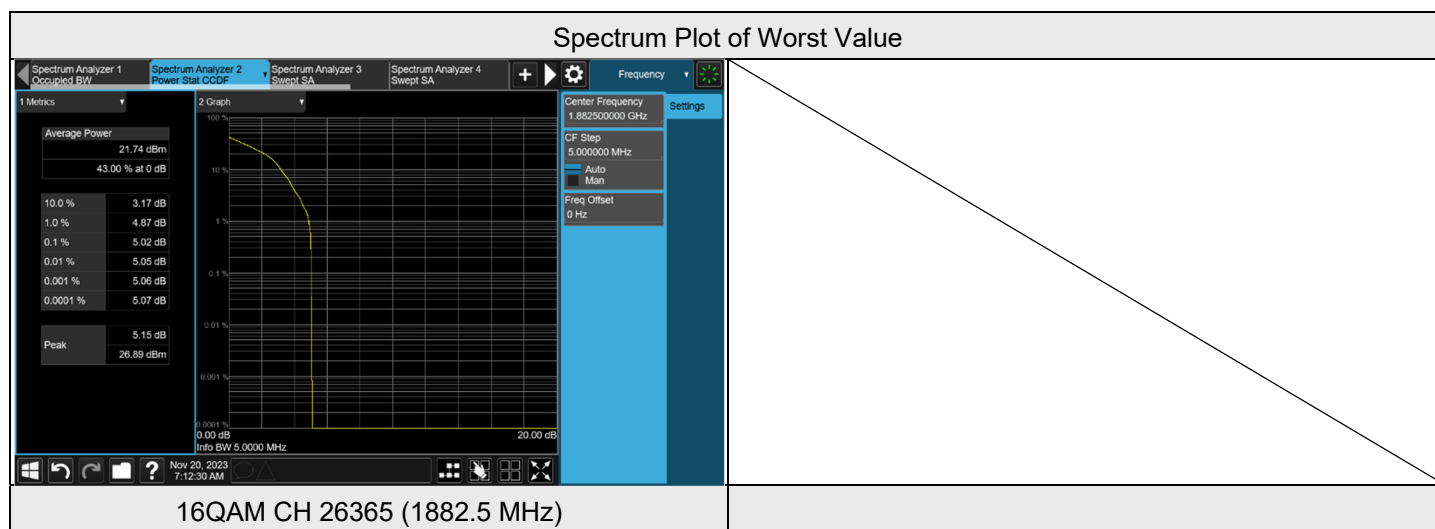
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	23230	782	4.42	13	Pass
16QAM	23230	782	4.95	13	Pass



7.3.6 Cat-M1 Band 25

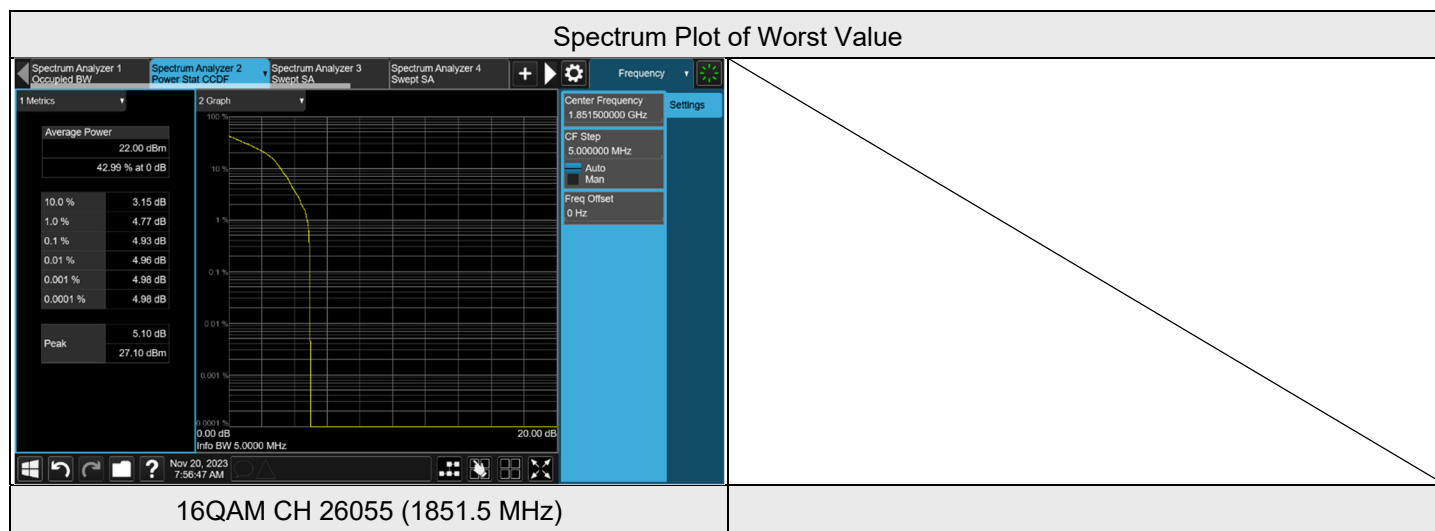
Cat-M1 Band 25, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	26047	1850.7	3.85	13	Pass
QPSK	26365	1882.5	4.19	13	Pass
QPSK	26683	1914.3	3.49	13	Pass
16QAM	26047	1850.7	4.93	13	Pass
16QAM	26365	1882.5	5.02	13	Pass
16QAM	26683	1914.3	4.45	13	Pass



Cat-M1 Band 25, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	26055	1851.5	3.87	13	Pass
QPSK	26365	1882.5	3.97	13	Pass
QPSK	26675	1913.5	3.50	13	Pass
16QAM	26055	1851.5	4.93	13	Pass
16QAM	26365	1882.5	4.92	13	Pass
16QAM	26675	1913.5	4.48	13	Pass



Cat-M1 Band 25, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	26065	1852.5	4.01	13	Pass
QPSK	26365	1882.5	4.20	13	Pass
QPSK	26665	1912.5	3.78	13	Pass
16QAM	26065	1852.5	4.45	13	Pass
16QAM	26365	1882.5	4.51	13	Pass
16QAM	26665	1912.5	4.10	13	Pass

