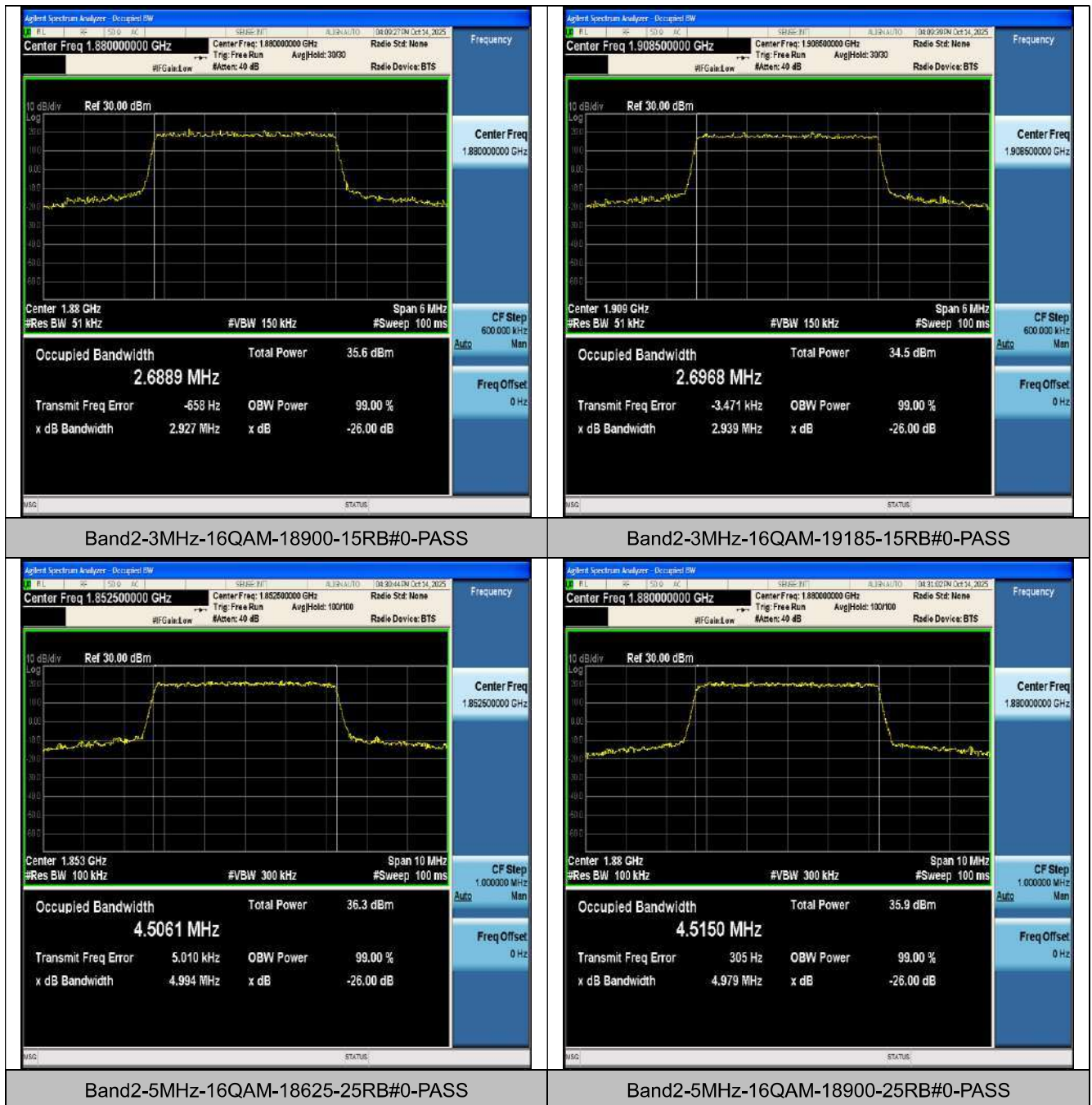
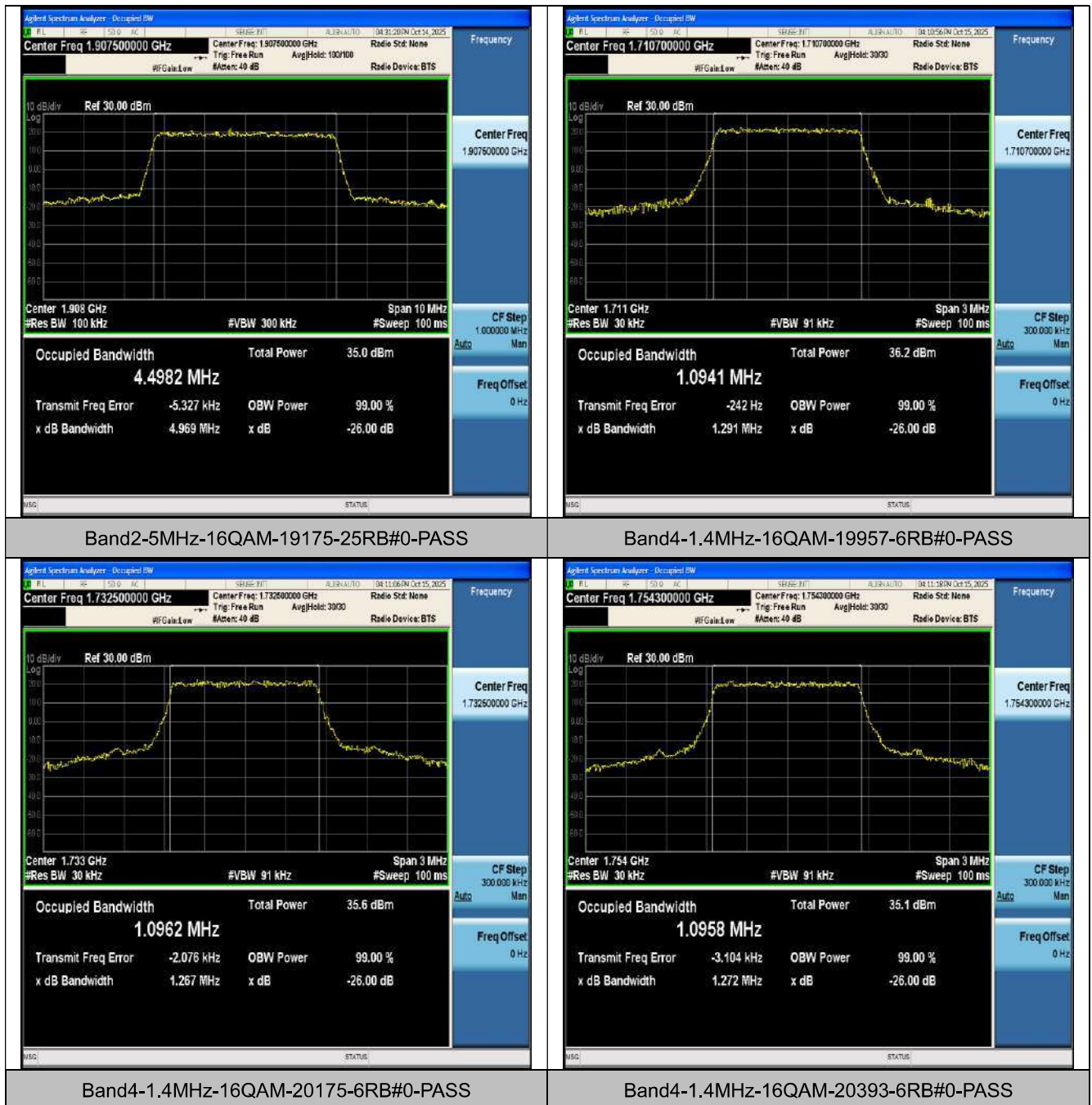
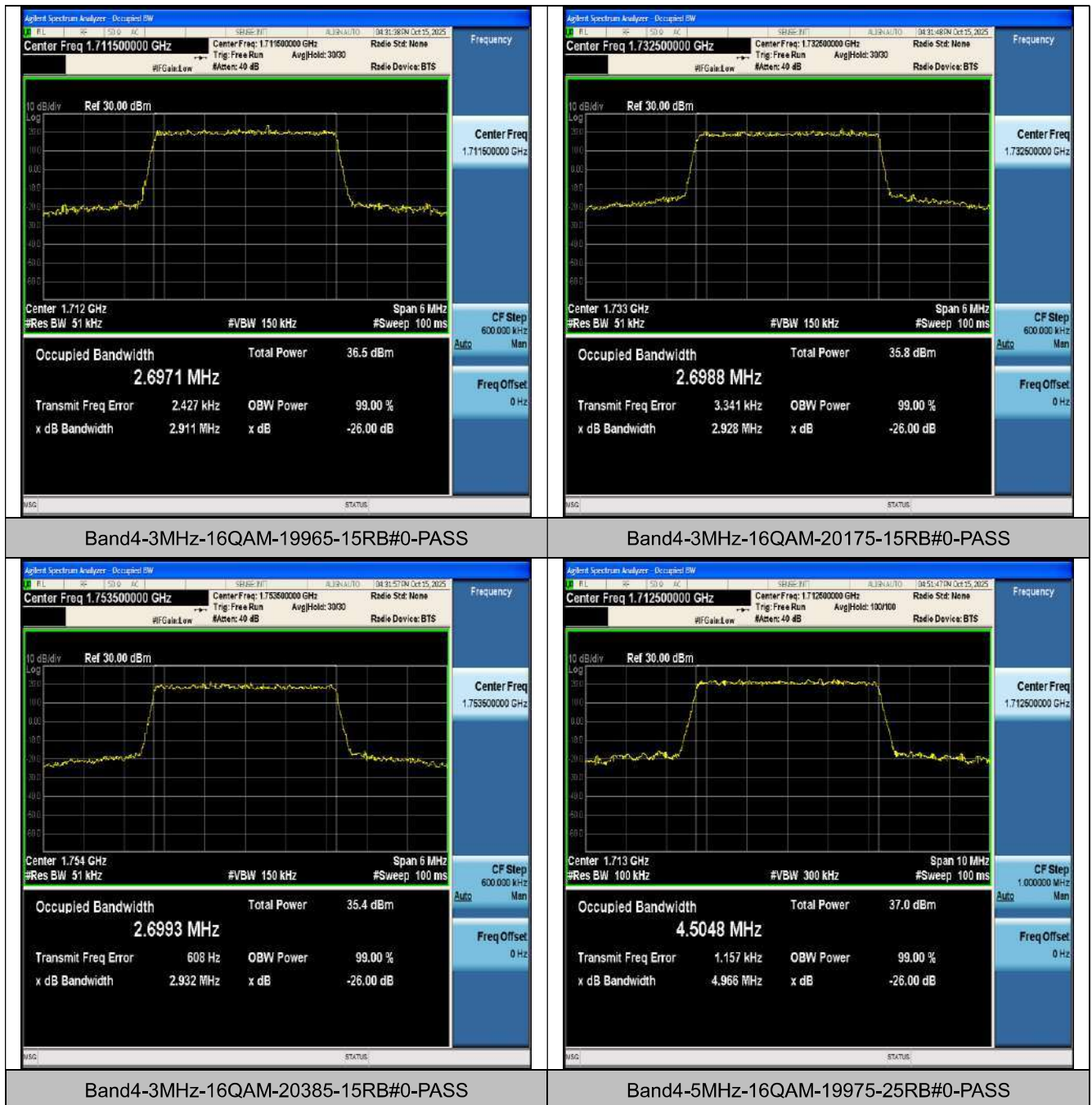
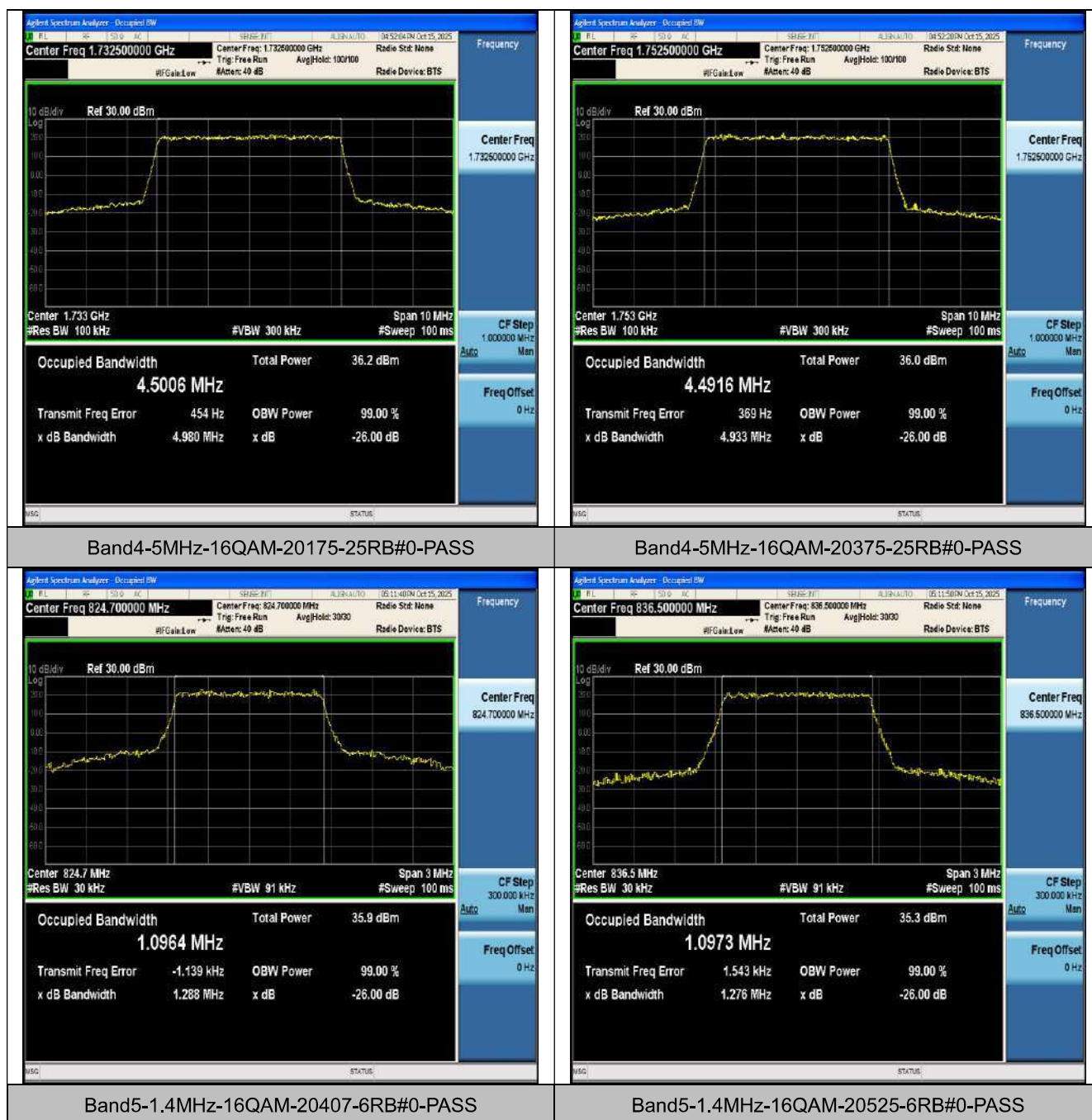
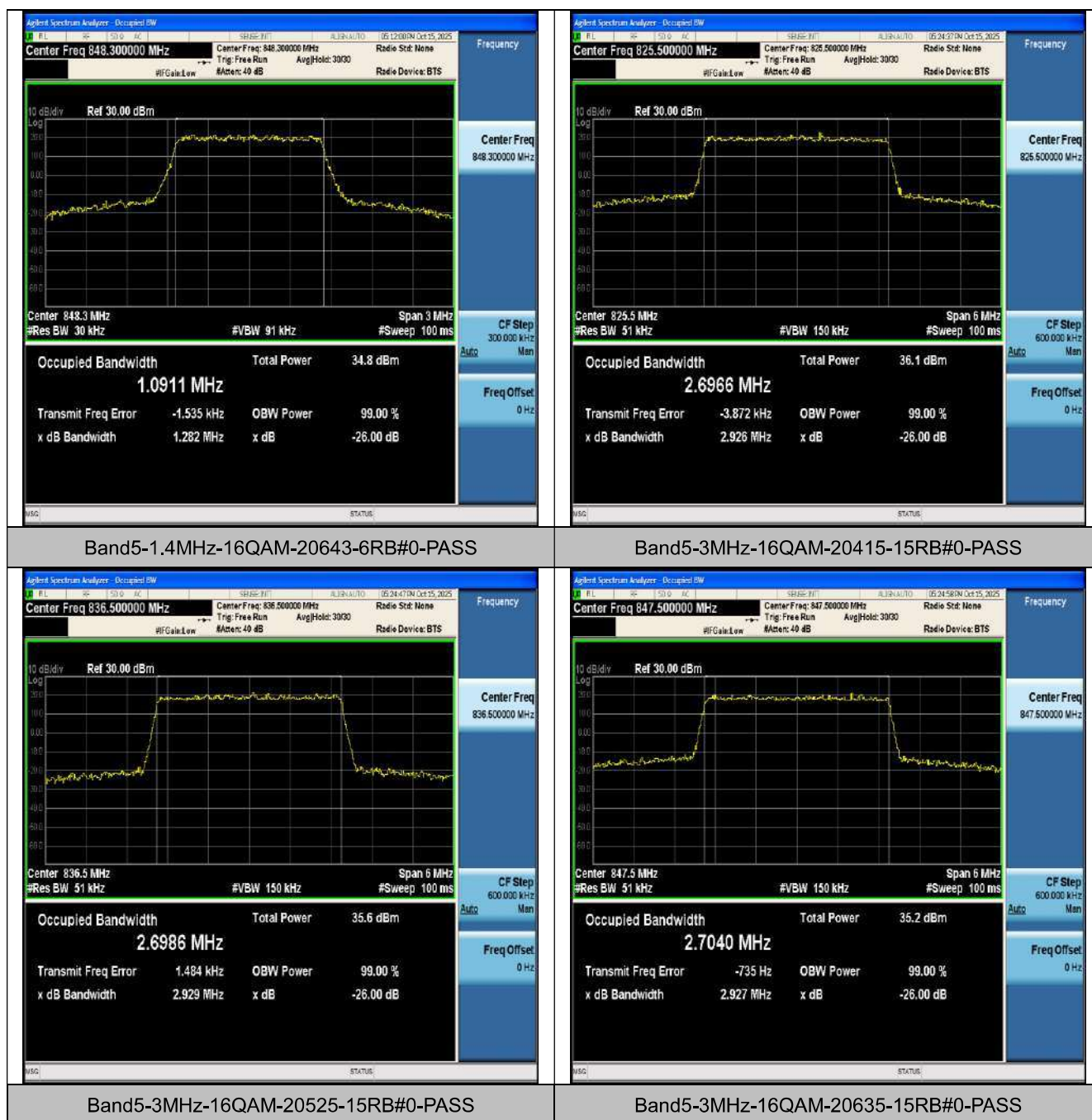


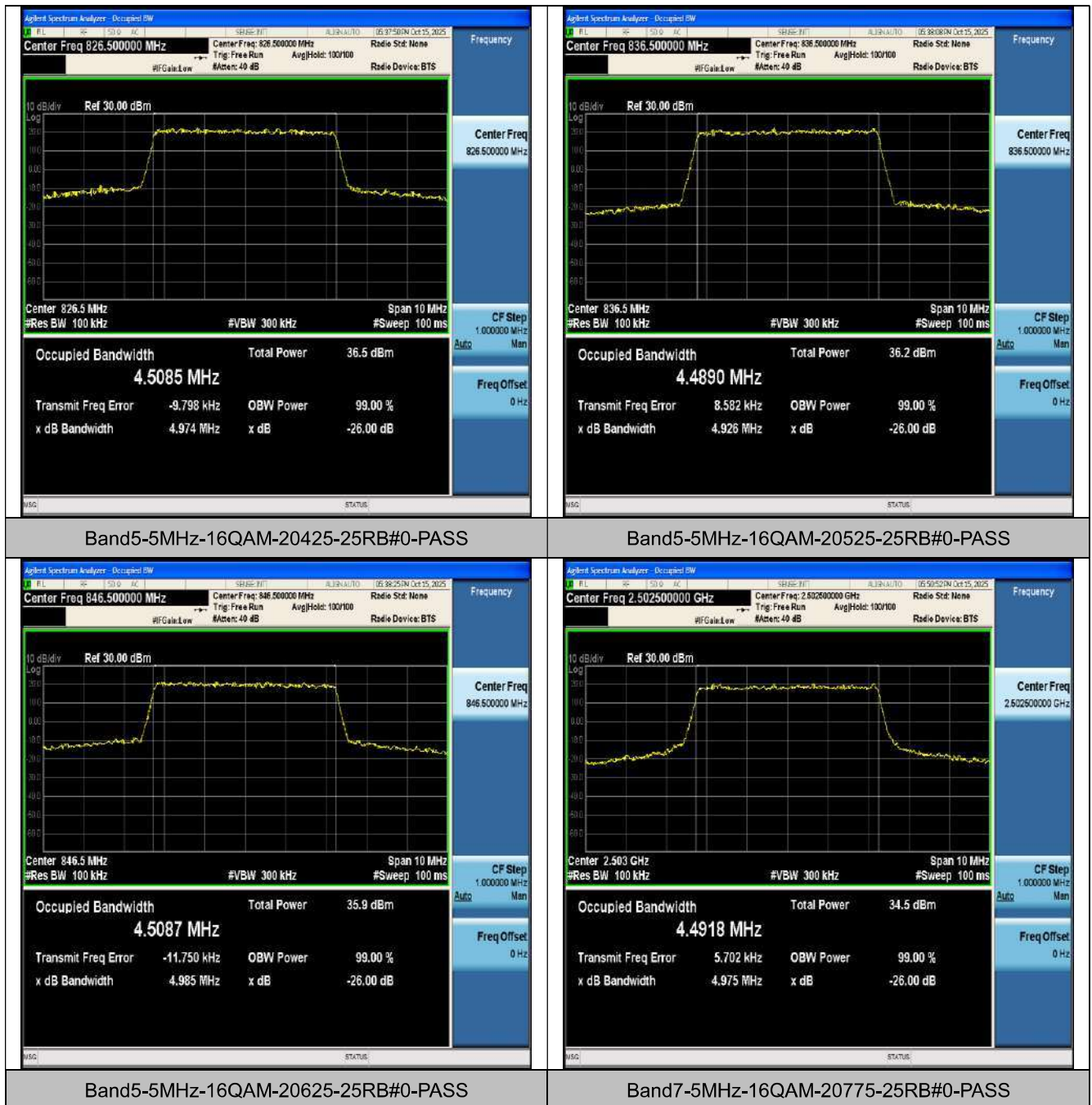


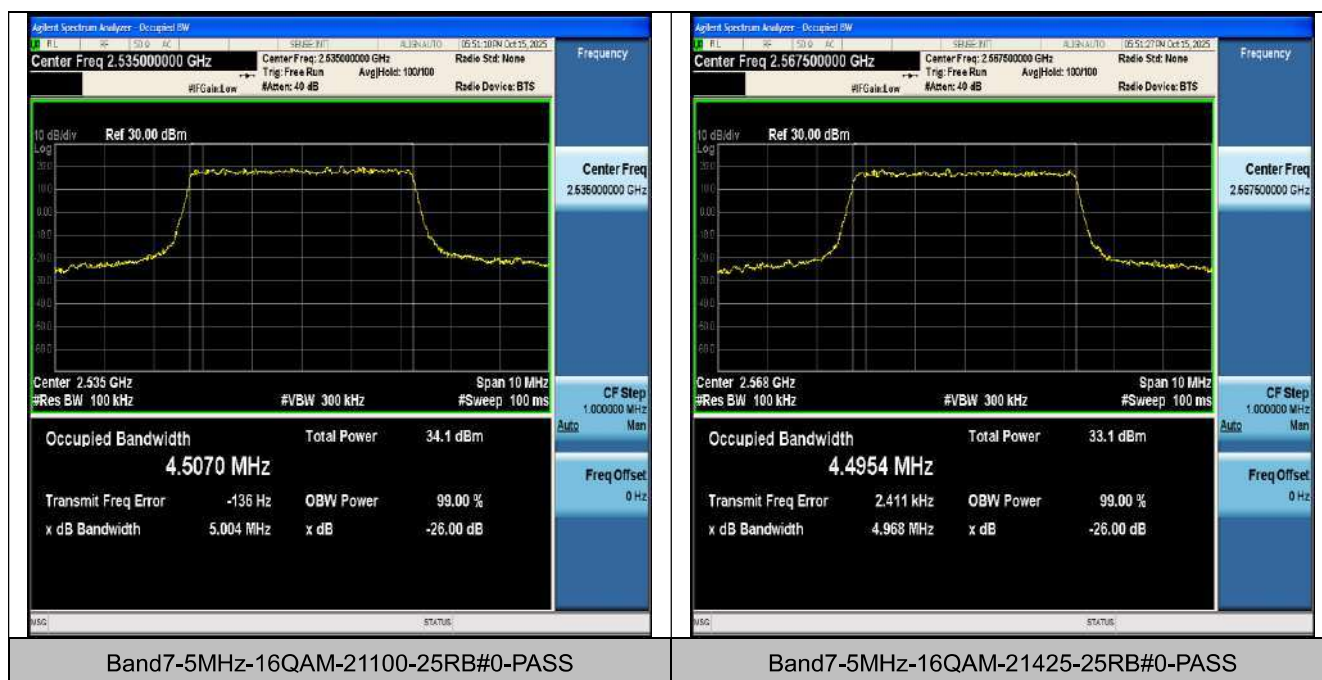












11. Band Edges Compliance

11.1. Limit

According to FCC section 22.917(a), 24.238(a)(b), 27.53(h)(1)(3)(i), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10\log(P)$ dB.

According to FCC section 27.53(m)(4), For mobile digital stations, the attenuation factor shall be not less than $40+10\log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43+10\log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55+10\log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43+10\log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55+10\log(P)$ dB at or below 2490.5 MHz.

11.2. Test Procedures

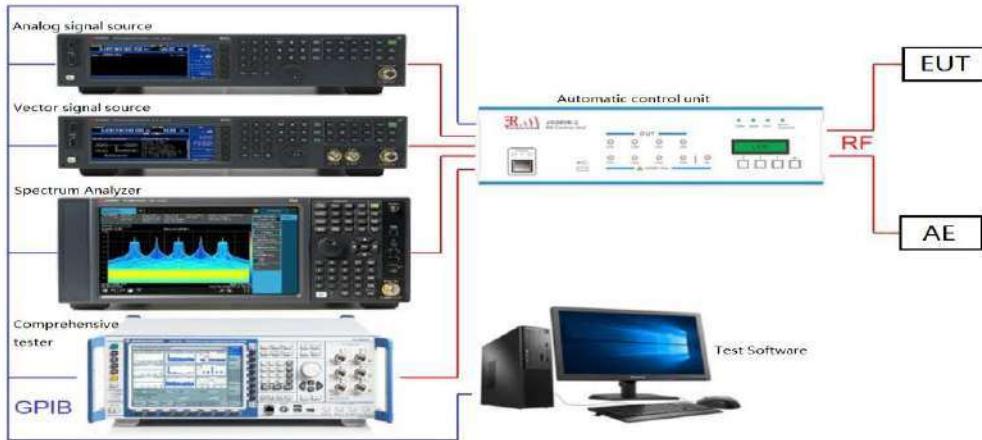
Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at two frequencies (low channel and high channel). In the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to peak or peak hold power.

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW $\geq$ 1% of the emission bandwidth
4. VBW $\geq$ 3×RBW
5. Detector = RMS
6. Number of sweep points $\geq$ 2×Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

11.3. Test Setup



11.4. Test Results

EUT Name	GPS Tracker	Model	GL33CG
Test Date	2025.09.25 to 2025.11.17	Test Mode	GPRS/EGPRS 850/1900
Test Engineer	Stone Zhang	Environmental Conditions	Temp:23.0 ~ 31.8°C;Humi:25 ~ 63%RH

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GPRS850	128	824.00	-19.33	-13	PASS
EGPRS850	128	823.97	-29.33	-13	PASS
GPRS850	251	849.02	-19.37	-13	PASS
EGPRS850	251	849.02	-29.64	-13	PASS
GPRS1900	512	1849.98	-25.38	-13	PASS
EGPRS1900	512	1849.97	-30.98	-13	PASS
GPRS1900	810	1910.01	-24.05	-13	PASS
EGPRS1900	810	1910.01	-30.08	-13	PASS

EUT Name	GPS Tracker	Model	GL33CG
Test Date	2025.09.25 to 2025.11.17	Test Mode	LTE
Test Engineer	Stone Zhang	Environmental Conditions	Temp:23.0 ~ 31.8°C;Humi:25 ~ 63%RH

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	-20.65	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	-21.24	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	-14.24	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	-20.51	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	-18.22	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	-19.06	PASS
Band2	3MHz	QPSK	18615	1RB#0	-17.32	PASS
Band2	3MHz	QPSK	18615	1RB#14	-38.02	PASS
Band2	3MHz	QPSK	18615	15RB#0	-21.38	PASS
Band2	3MHz	QPSK	19185	1RB#0	-42.08	PASS
Band2	3MHz	QPSK	19185	1RB#14	-17.76	PASS
Band2	3MHz	QPSK	19185	15RB#0	-24.83	PASS
Band2	5MHz	QPSK	18625	1RB#0	-18.79	PASS
Band2	5MHz	QPSK	18625	1RB#24	-43.69	PASS
Band2	5MHz	QPSK	18625	25RB#0	-22.90	PASS
Band2	5MHz	QPSK	19175	1RB#0	-44.57	PASS
Band2	5MHz	QPSK	19175	1RB#24	-21.50	PASS
Band2	5MHz	QPSK	19175	25RB#0	-27.24	PASS
Band2	10MHz	QPSK	18650	1RB#0	-28.37	PASS
Band2	10MHz	QPSK	18650	1RB#49	-41.01	PASS
Band2	10MHz	QPSK	18650	50RB#0	-27.10	PASS
Band2	10MHz	QPSK	19150	1RB#0	-43.69	PASS
Band2	10MHz	QPSK	19150	1RB#49	-29.74	PASS
Band2	10MHz	QPSK	19150	50RB#0	-33.19	PASS
Band2	15MHz	QPSK	18675	1RB#0	-34.07	PASS
Band2	15MHz	QPSK	18675	1RB#74	-44.53	PASS
Band2	15MHz	QPSK	18675	75RB#0	-29.87	PASS
Band2	15MHz	QPSK	19125	1RB#0	-47.12	PASS
Band2	15MHz	QPSK	19125	1RB#74	-35.02	PASS
Band2	15MHz	QPSK	19125	75RB#0	-33.75	PASS

Band2	20MHz	QPSK	18700	1RB#0	-36.07	PASS
Band2	20MHz	QPSK	18700	1RB#99	-38.11	PASS
Band2	20MHz	QPSK	18700	100RB#0	-29.30	PASS
Band2	20MHz	QPSK	19100	1RB#0	-40.82	PASS
Band2	20MHz	QPSK	19100	1RB#99	-37.74	PASS
Band2	20MHz	QPSK	19100	100RB#0	-30.93	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	-24.59	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	-23.38	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	-24.79	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	-26.14	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	-26.60	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-25.98	PASS
Band4	3MHz	QPSK	19965	1RB#0	-19.01	PASS
Band4	3MHz	QPSK	19965	1RB#14	-38.56	PASS
Band4	3MHz	QPSK	19965	15RB#0	-28.98	PASS
Band4	3MHz	QPSK	20385	1RB#0	-39.84	PASS
Band4	3MHz	QPSK	20385	1RB#14	-20.05	PASS
Band4	3MHz	QPSK	20385	15RB#0	-27.83	PASS
Band4	5MHz	QPSK	19975	1RB#0	-20.59	PASS
Band4	5MHz	QPSK	19975	1RB#24	-43.21	PASS
Band4	5MHz	QPSK	19975	25RB#0	-31.30	PASS
Band4	5MHz	QPSK	20375	1RB#0	-44.43	PASS
Band4	5MHz	QPSK	20375	1RB#24	-22.25	PASS
Band4	5MHz	QPSK	20375	25RB#0	-28.66	PASS
Band4	10MHz	QPSK	20000	1RB#0	-29.38	PASS
Band4	10MHz	QPSK	20000	1RB#49	-40.55	PASS
Band4	10MHz	QPSK	20000	50RB#0	-36.48	PASS
Band4	10MHz	QPSK	20350	1RB#0	-43.59	PASS
Band4	10MHz	QPSK	20350	1RB#49	-30.52	PASS
Band4	10MHz	QPSK	20350	50RB#0	-34.08	PASS
Band4	15MHz	QPSK	20025	1RB#0	-34.11	PASS
Band4	15MHz	QPSK	20025	1RB#74	-44.33	PASS
Band4	15MHz	QPSK	20025	75RB#0	-35.85	PASS
Band4	15MHz	QPSK	20325	1RB#0	-46.53	PASS
Band4	15MHz	QPSK	20325	1RB#74	-35.07	PASS
Band4	15MHz	QPSK	20325	75RB#0	-34.34	PASS
Band4	20MHz	QPSK	20050	1RB#0	-37.92	PASS

Band4	20MHz	QPSK	20050	1RB#99	-38.38	PASS
Band4	20MHz	QPSK	20050	100RB#0	-34.28	PASS
Band4	20MHz	QPSK	20300	1RB#0	-41.02	PASS
Band4	20MHz	QPSK	20300	1RB#99	-38.74	PASS
Band4	20MHz	QPSK	20300	100RB#0	-33.39	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	-20.67	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	-26.58	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-15.37	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	-29.70	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-20.78	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-20.86	PASS
Band5	3MHz	QPSK	20415	1RB#0	-16.60	PASS
Band5	3MHz	QPSK	20415	1RB#14	-38.09	PASS
Band5	3MHz	QPSK	20415	15RB#0	-22.34	PASS
Band5	3MHz	QPSK	20635	1RB#0	-39.33	PASS
Band5	3MHz	QPSK	20635	1RB#14	-18.96	PASS
Band5	3MHz	QPSK	20635	15RB#0	-25.81	PASS
Band5	5MHz	QPSK	20425	1RB#0	-20.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	-43.51	PASS
Band5	5MHz	QPSK	20425	25RB#0	-23.90	PASS
Band5	5MHz	QPSK	20625	1RB#0	-44.58	PASS
Band5	5MHz	QPSK	20625	1RB#24	-22.62	PASS
Band5	5MHz	QPSK	20625	25RB#0	-25.58	PASS
Band5	10MHz	QPSK	20450	1RB#0	-31.83	PASS
Band5	10MHz	QPSK	20450	1RB#49	-40.35	PASS
Band5	10MHz	QPSK	20450	50RB#0	-27.18	PASS
Band5	10MHz	QPSK	20600	1RB#0	-44.13	PASS
Band5	10MHz	QPSK	20600	1RB#49	-32.74	PASS
Band5	10MHz	QPSK	20600	50RB#0	-26.02	PASS
Band7	5MHz	QPSK	20775	1RB#0	-18.25	PASS
Band7	5MHz	QPSK	20775	1RB#24	-42.45	PASS
Band7	5MHz	QPSK	20775	25RB#0	-20.22	PASS
Band7	5MHz	QPSK	21425	1RB#0	-41.51	PASS
Band7	5MHz	QPSK	21425	1RB#24	-20.57	PASS
Band7	5MHz	QPSK	21425	25RB#0	-37.01	PASS
Band7	10MHz	QPSK	20800	1RB#0	-25.81	PASS
Band7	10MHz	QPSK	20800	1RB#49	-42.55	PASS

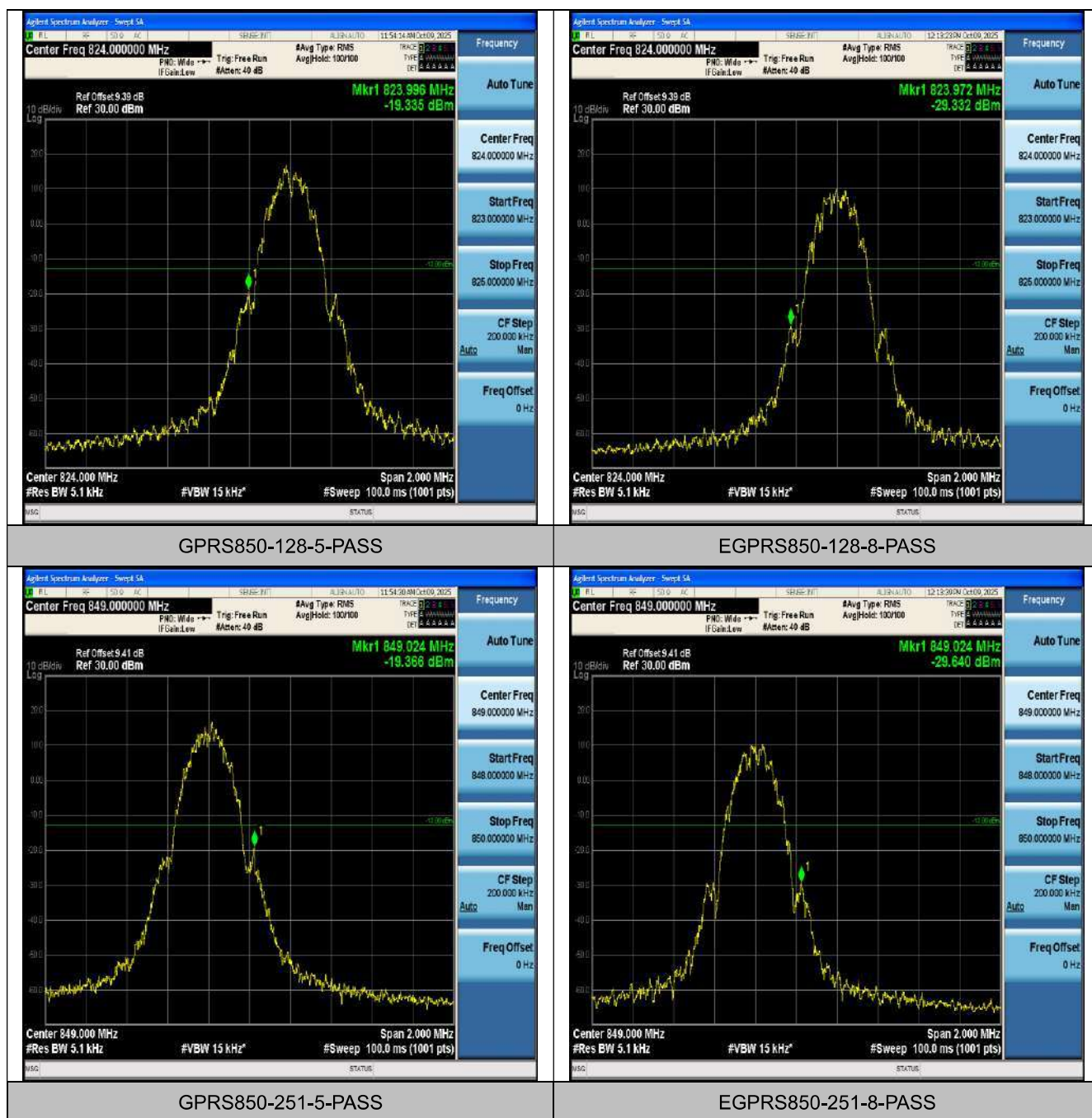
Band7	10MHz	QPSK	20800	50RB#0	-24.34	PASS
Band7	10MHz	QPSK	21400	1RB#0	-27.57	PASS
Band7	10MHz	QPSK	21400	1RB#49	-41.58	PASS
Band7	10MHz	QPSK	21400	50RB#0	-37.72	PASS
Band7	15MHz	QPSK	20825	1RB#0	-28.51	PASS
Band7	15MHz	QPSK	20825	1RB#74	-42.58	PASS
Band7	15MHz	QPSK	20825	75RB#0	-24.32	PASS
Band7	15MHz	QPSK	21375	1RB#0	-28.60	PASS
Band7	15MHz	QPSK	21375	1RB#74	-41.99	PASS
Band7	15MHz	QPSK	21375	75RB#0	-38.17	PASS
Band7	20MHz	QPSK	20850	1RB#0	-30.26	PASS
Band7	20MHz	QPSK	20850	1RB#99	-42.67	PASS
Band7	20MHz	QPSK	20850	100RB#0	-27.43	PASS
Band7	20MHz	QPSK	21350	1RB#0	-42.04	PASS
Band7	20MHz	QPSK	21350	1RB#99	-41.99	PASS
Band7	20MHz	QPSK	21350	100RB#0	-41.58	PASS

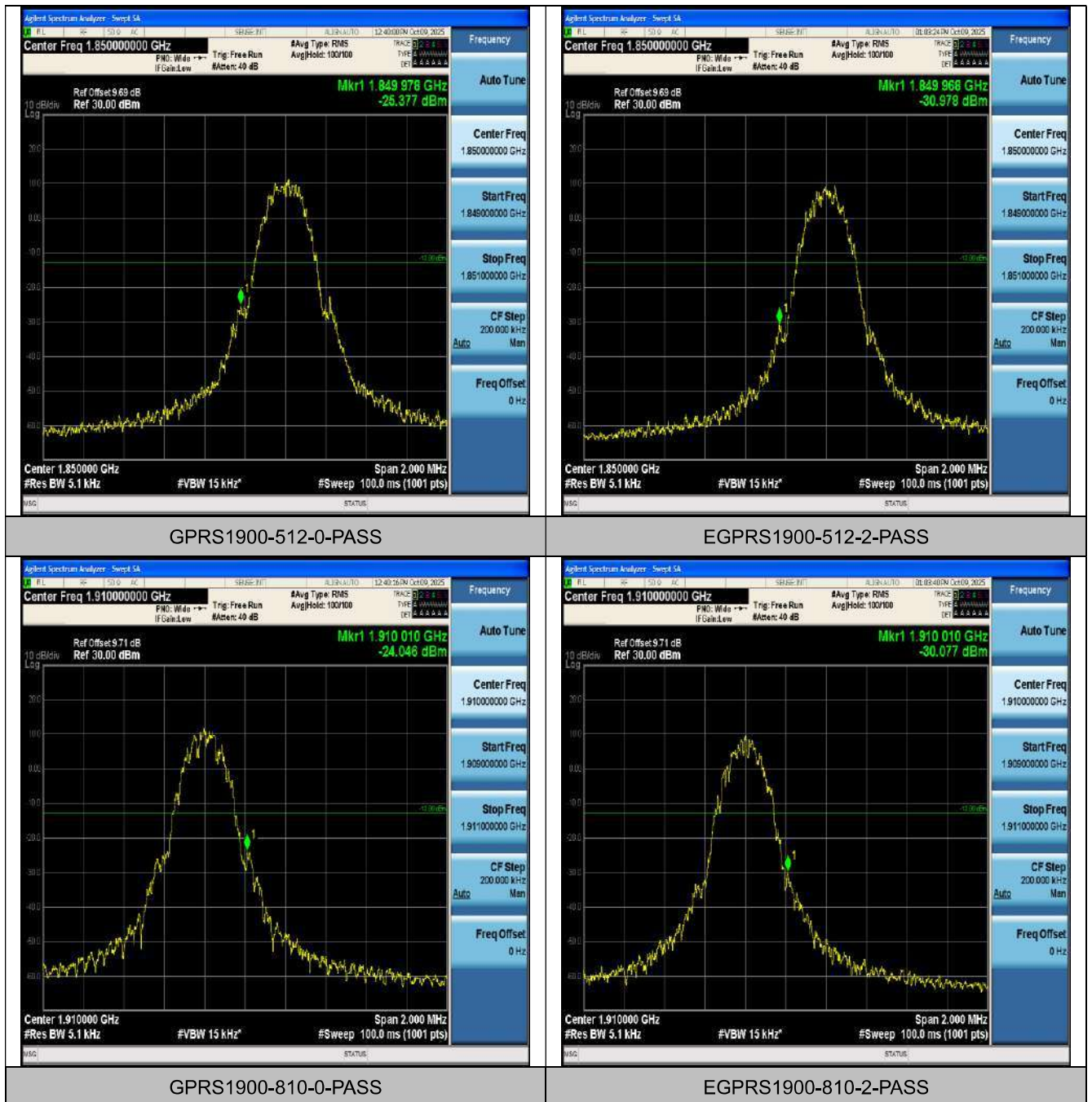
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	16QAM	18607	1RB#0	-20.54	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	-20.79	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	-19.19	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	-26.49	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	-22.75	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	-18.82	PASS
Band2	3MHz	16QAM	18615	1RB#0	-18.02	PASS
Band2	3MHz	16QAM	18615	1RB#14	-39.52	PASS
Band2	3MHz	16QAM	18615	15RB#0	-21.34	PASS
Band2	3MHz	16QAM	19185	1RB#0	-42.33	PASS
Band2	3MHz	16QAM	19185	1RB#14	-18.83	PASS
Band2	3MHz	16QAM	19185	15RB#0	-25.37	PASS
Band2	5MHz	16QAM	18625	1RB#0	-20.98	PASS
Band2	5MHz	16QAM	18625	1RB#24	-44.50	PASS
Band2	5MHz	16QAM	18625	25RB#0	-23.14	PASS
Band2	5MHz	16QAM	19175	1RB#0	-45.28	PASS
Band2	5MHz	16QAM	19175	1RB#24	-21.12	PASS
Band2	5MHz	16QAM	19175	25RB#0	-26.35	PASS

Band4	1.4MHz	16QAM	19957	1RB#0	-21.20	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	-26.04	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-28.80	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	-25.92	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	-25.03	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-23.70	PASS
Band4	3MHz	16QAM	19965	1RB#0	-19.60	PASS
Band4	3MHz	16QAM	19965	1RB#14	-38.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	-29.18	PASS
Band4	3MHz	16QAM	20385	1RB#0	-39.56	PASS
Band4	3MHz	16QAM	20385	1RB#14	-19.44	PASS
Band4	3MHz	16QAM	20385	15RB#0	-28.01	PASS
Band4	5MHz	16QAM	19975	1RB#0	-21.12	PASS
Band4	5MHz	16QAM	19975	1RB#24	-43.37	PASS
Band4	5MHz	16QAM	19975	25RB#0	-31.22	PASS
Band4	5MHz	16QAM	20375	1RB#0	-44.22	PASS
Band4	5MHz	16QAM	20375	1RB#24	-22.42	PASS
Band4	5MHz	16QAM	20375	25RB#0	-29.21	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-18.66	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	-27.63	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-16.97	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	-30.77	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-21.89	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-23.54	PASS
Band5	3MHz	16QAM	20415	1RB#0	-16.79	PASS
Band5	3MHz	16QAM	20415	1RB#14	-38.21	PASS
Band5	3MHz	16QAM	20415	15RB#0	-22.42	PASS
Band5	3MHz	16QAM	20635	1RB#0	-39.54	PASS
Band5	3MHz	16QAM	20635	1RB#14	-19.93	PASS
Band5	3MHz	16QAM	20635	15RB#0	-26.53	PASS
Band5	5MHz	16QAM	20425	1RB#0	-21.18	PASS
Band5	5MHz	16QAM	20425	1RB#24	-43.23	PASS
Band5	5MHz	16QAM	20425	25RB#0	-24.58	PASS
Band5	5MHz	16QAM	20625	1RB#0	-44.86	PASS
Band5	5MHz	16QAM	20625	1RB#24	-22.83	PASS
Band5	5MHz	16QAM	20625	25RB#0	-26.10	PASS
Band7	5MHz	16QAM	20775	1RB#0	-18.15	PASS

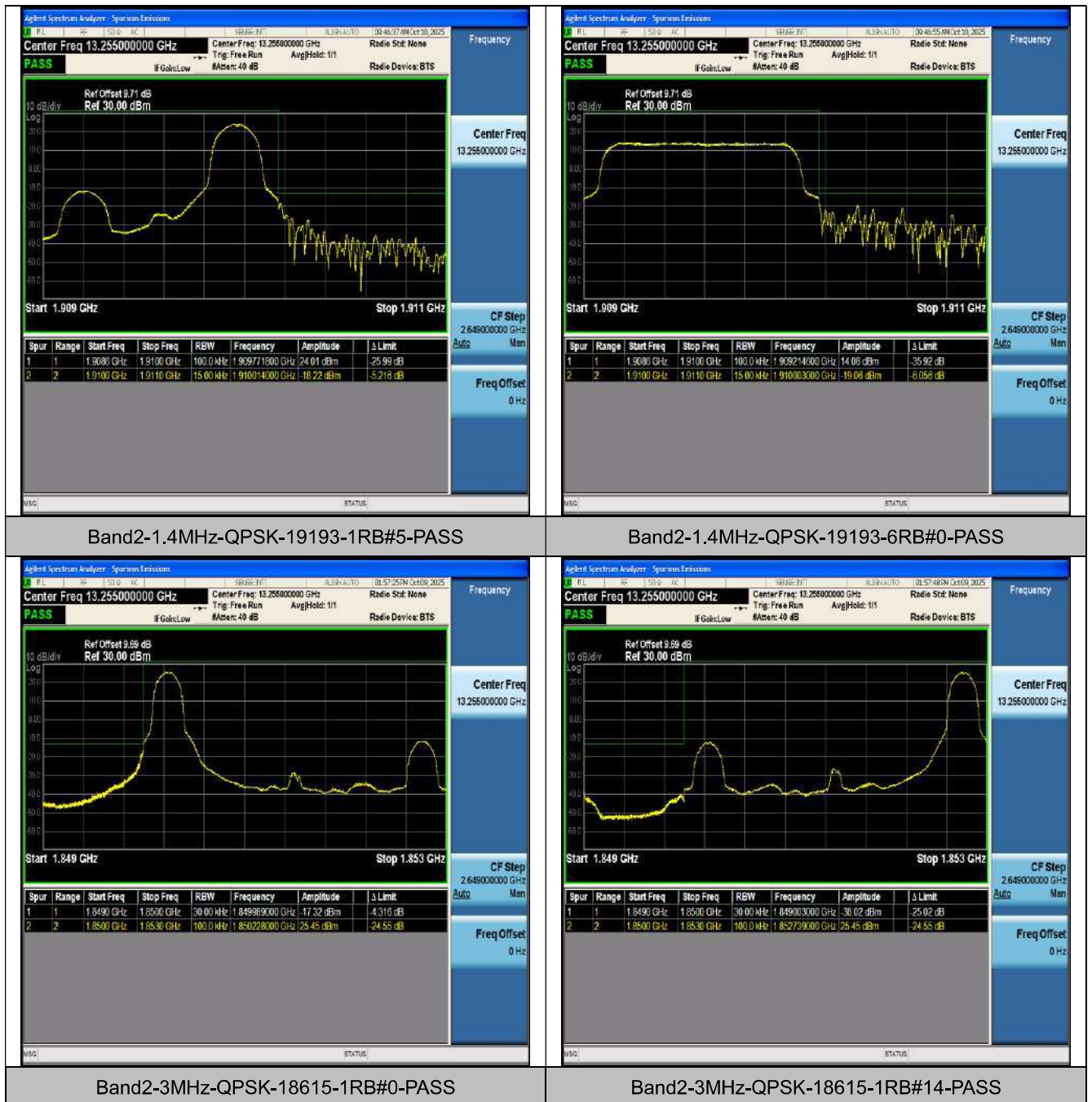
Band7	5MHz	16QAM	20775	1RB#24	-42.54	PASS
Band7	5MHz	16QAM	20775	25RB#0	-20.12	PASS
Band7	5MHz	16QAM	21425	1RB#0	-41.73	PASS
Band7	5MHz	16QAM	21425	1RB#24	-20.49	PASS
Band7	5MHz	16QAM	21425	25RB#0	-36.99	PASS

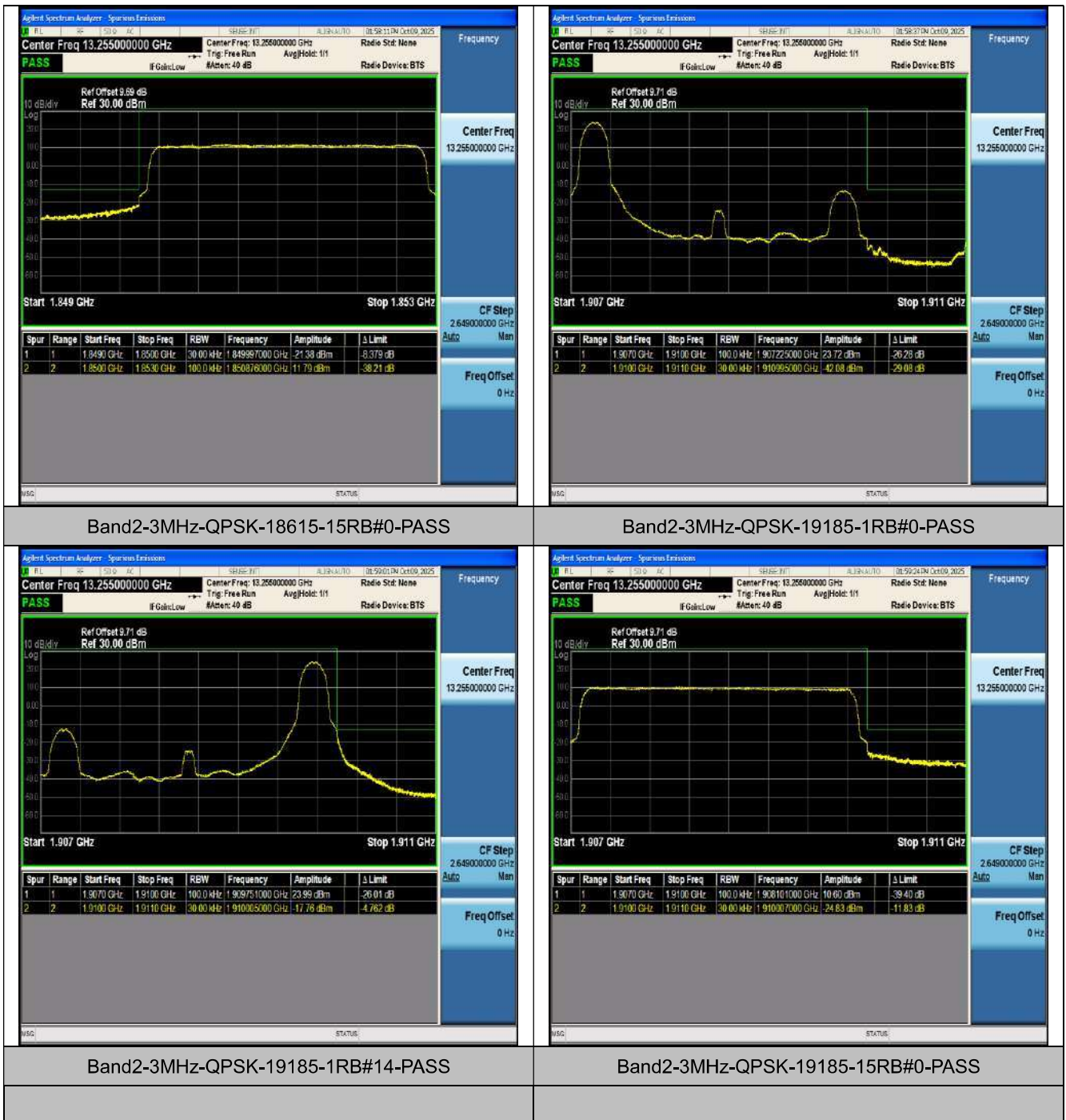
Test Graphs

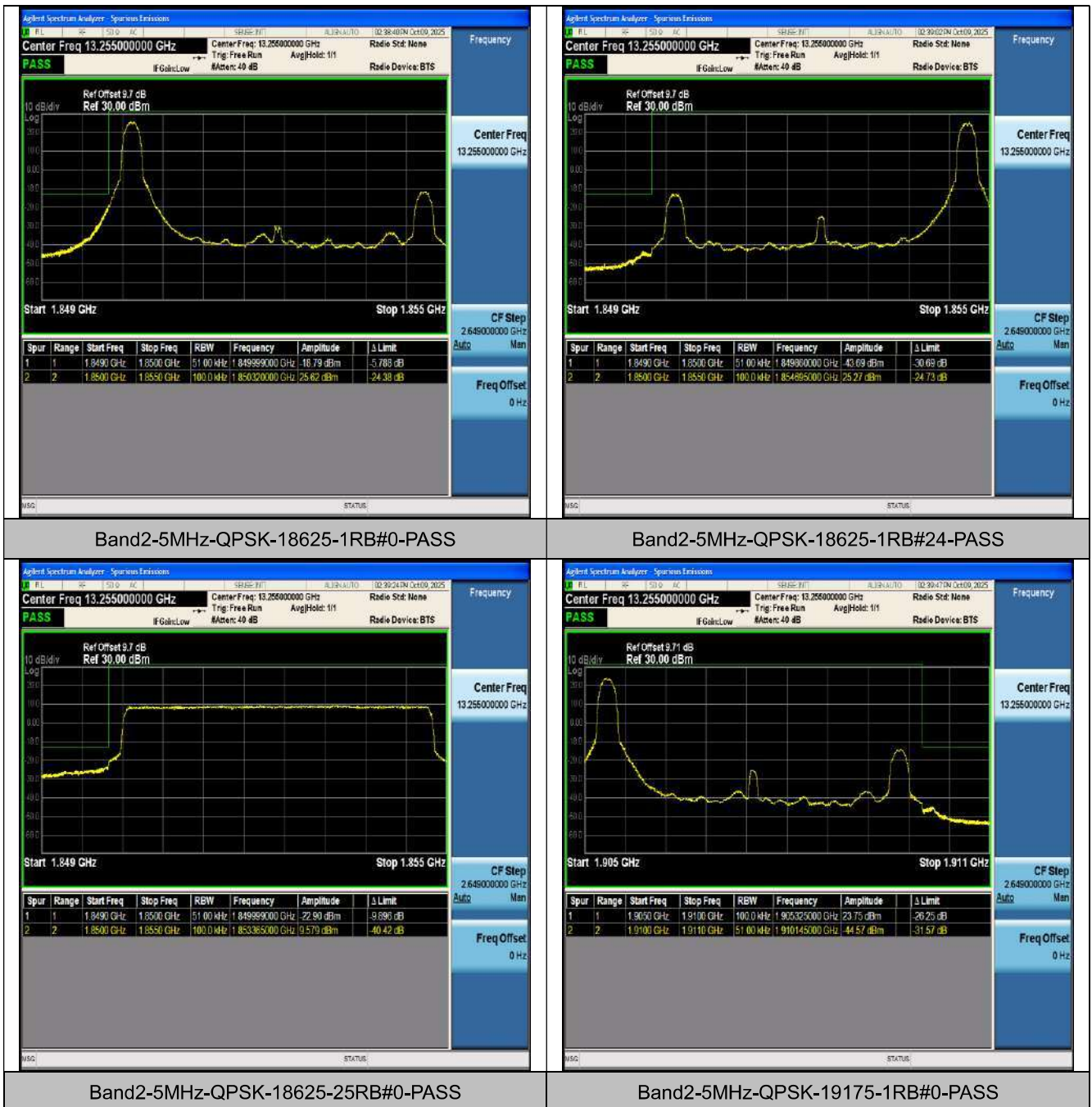


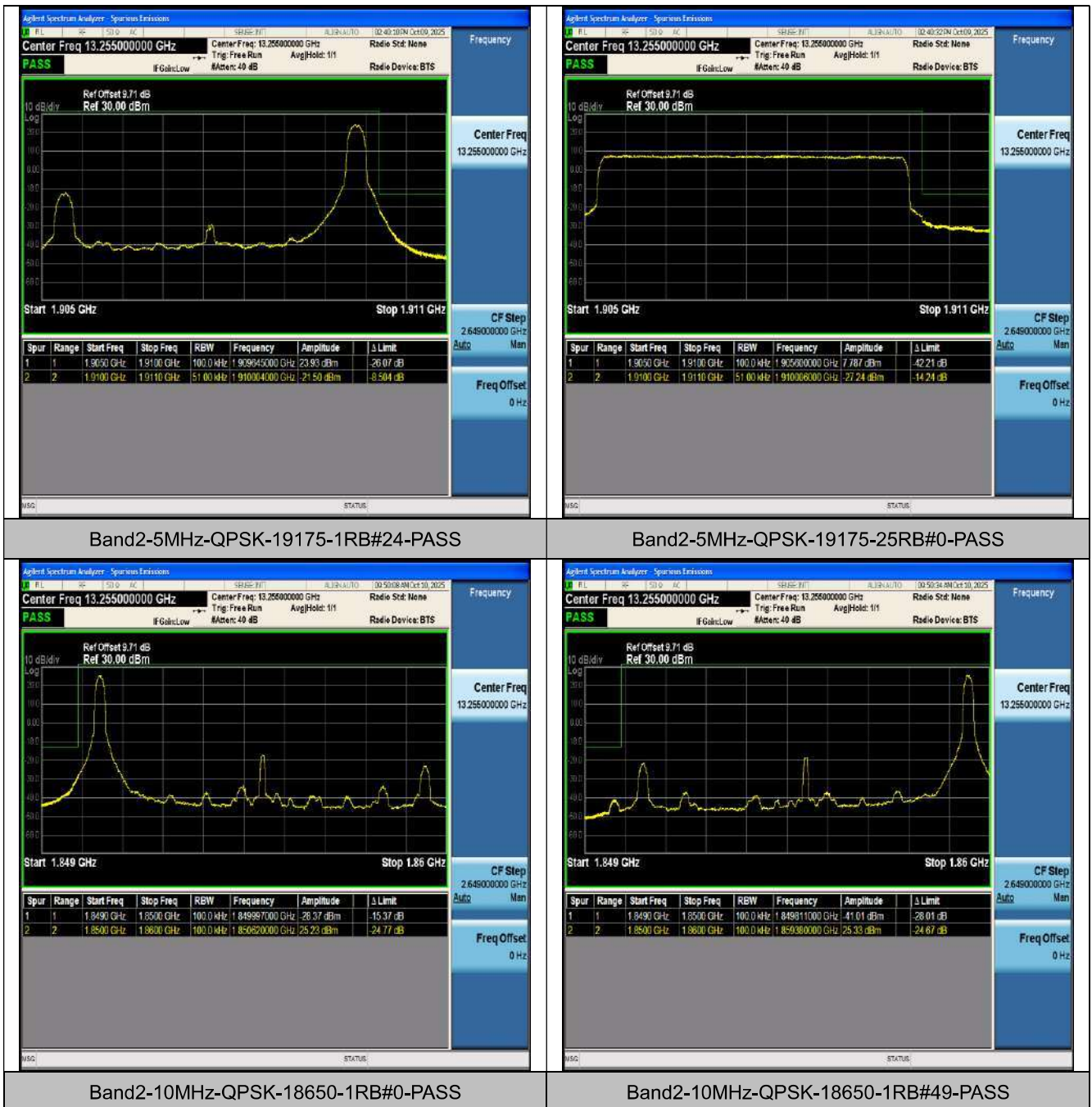


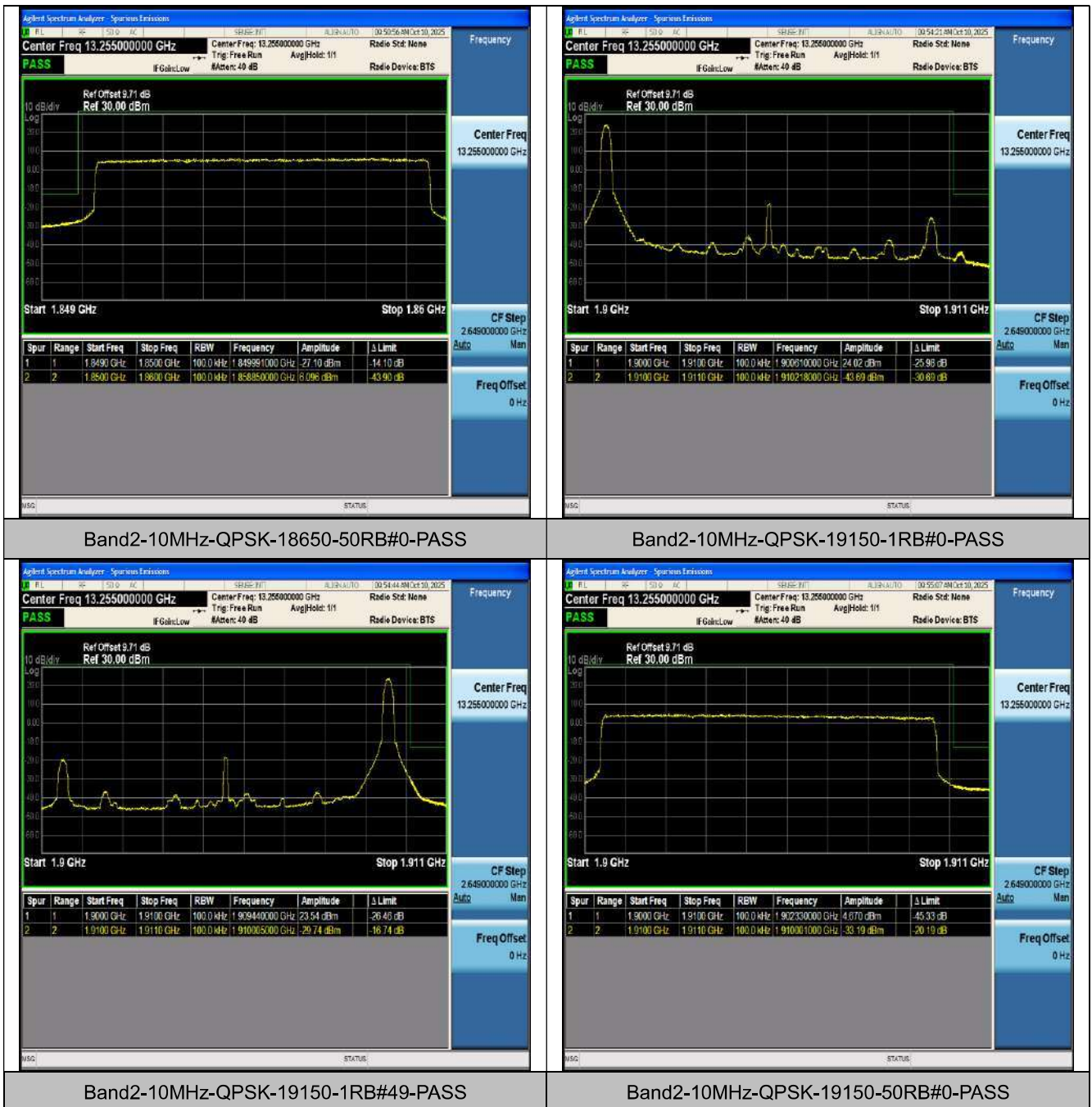


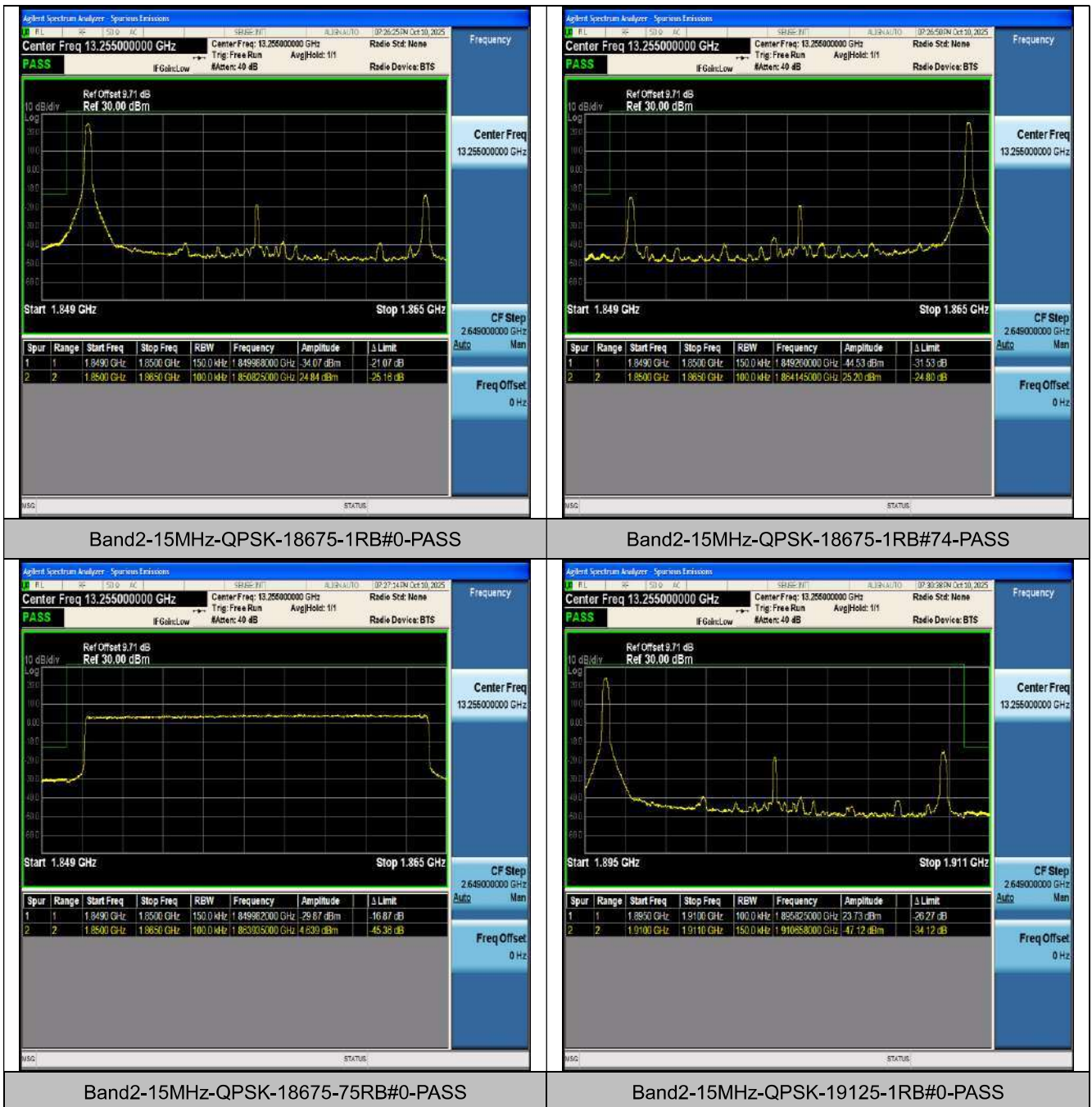


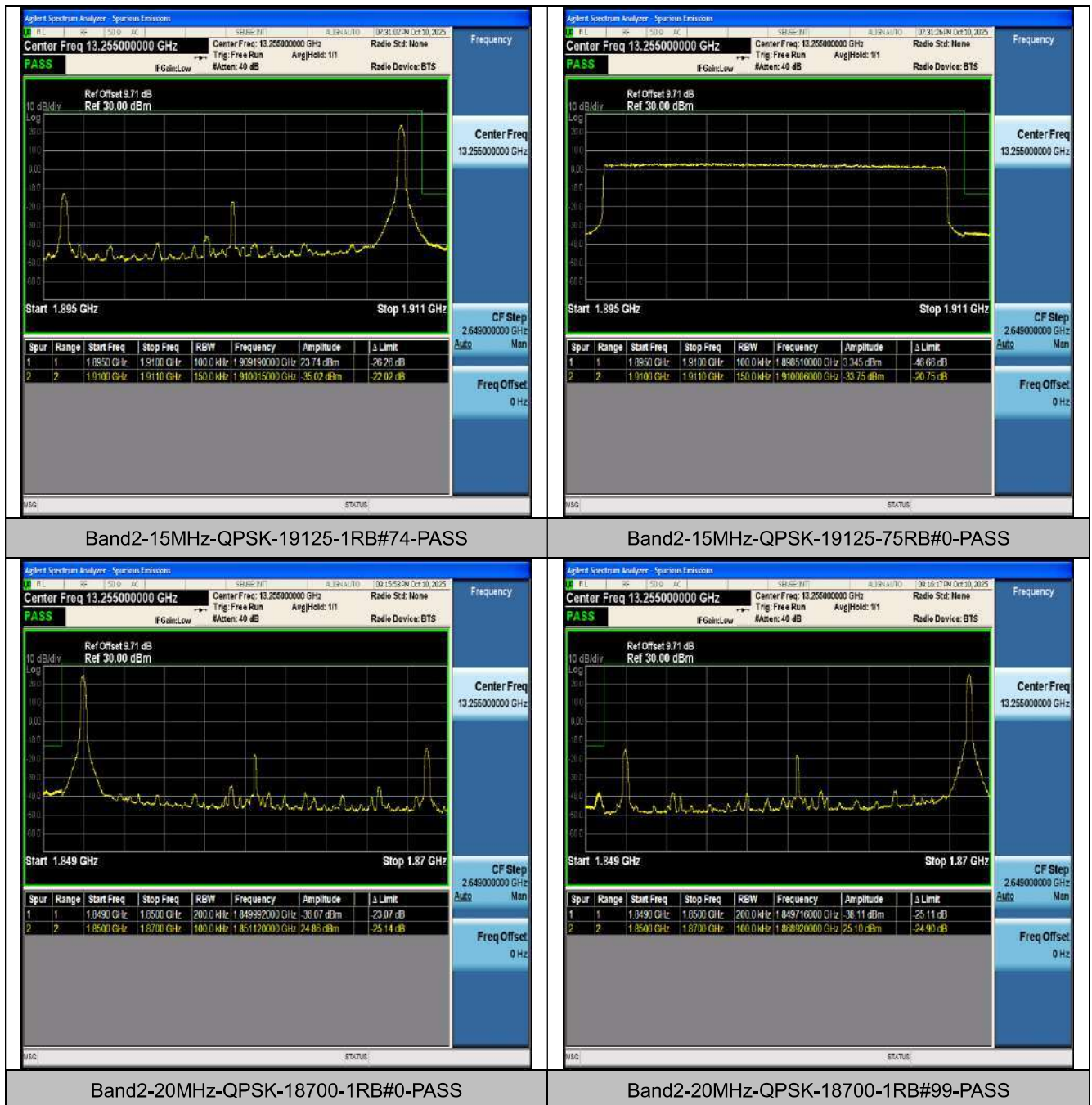


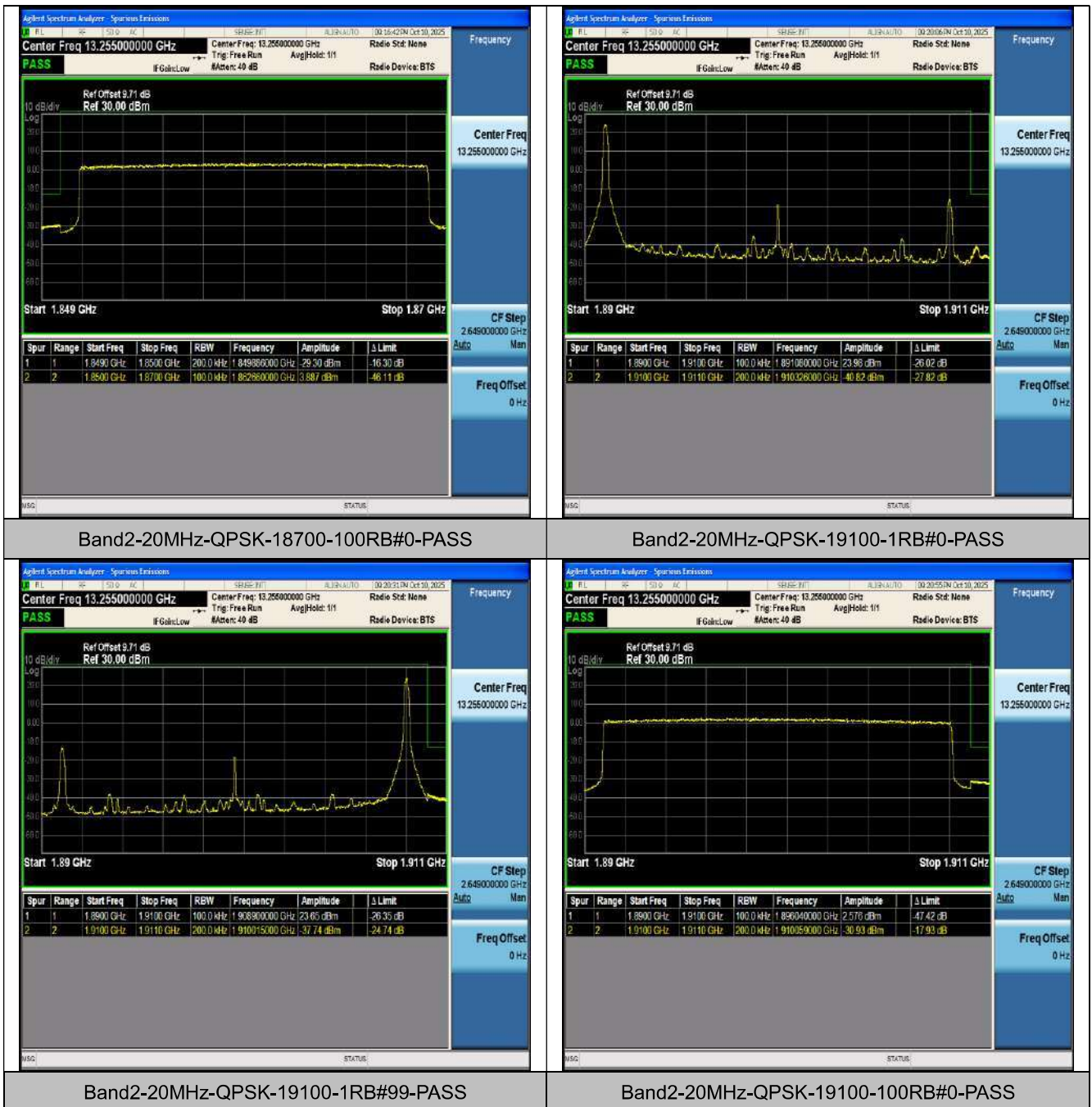












Band2-20MHz-QPSK-18700-100RB#0-PASS

Band2-20MHz-QPSK-19100-1RB#0-PASS

Band2-20MHz-QPSK-19100-1RB#99-PASS

Band2-20MHz-QPSK-19100-100RB#0-PASS

