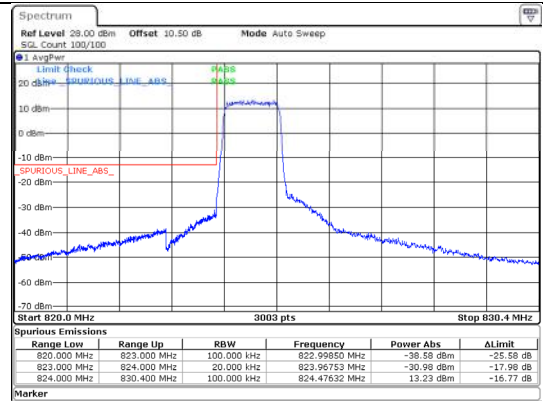
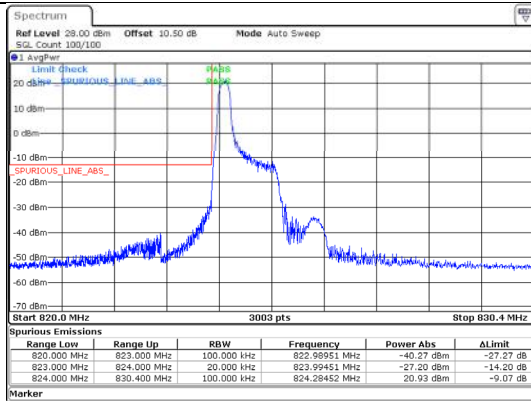
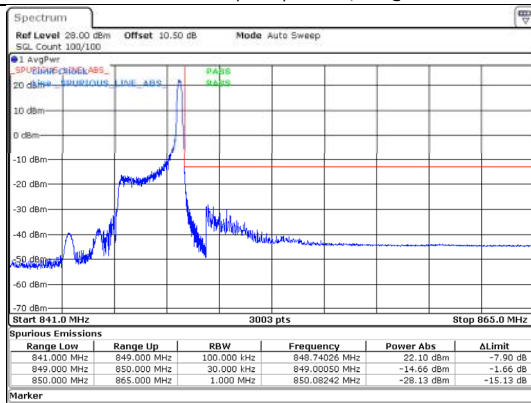
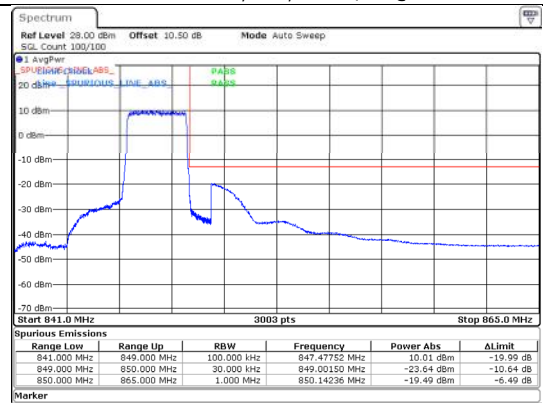




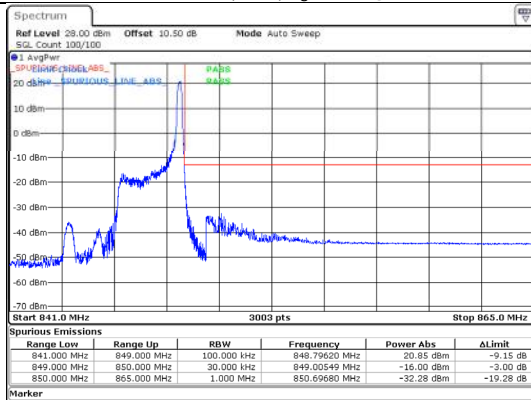
Band 5 1.4MHz/824.7/Low 16QAM 1@0



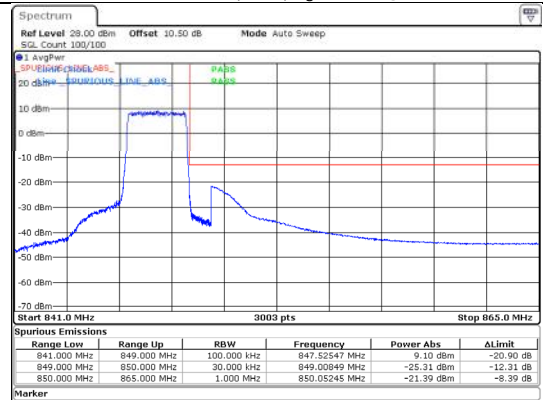
Band 5 1.4MHz/824.7/Low 16QAM 6@0



Band 5 3MHz/847.5/High QPSK 1@14

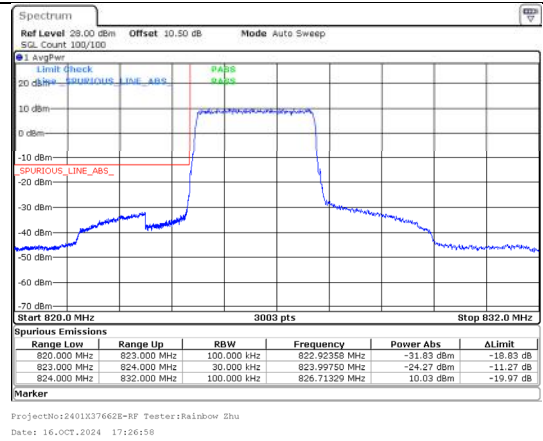
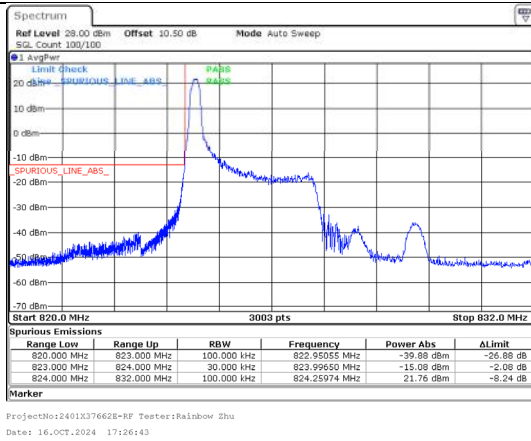


Band 5 3MHz/847.5/High QPSK 15@0

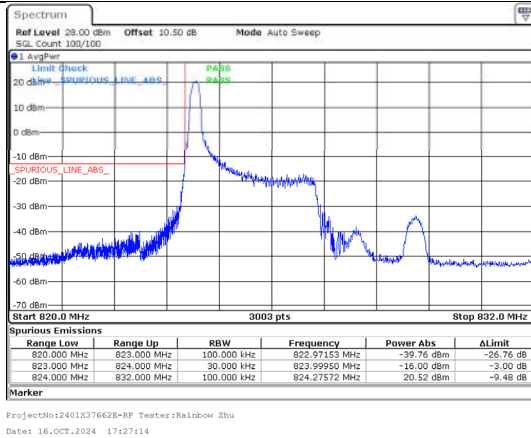


Band 5 3MHz/847.5/High 16QAM 1@14

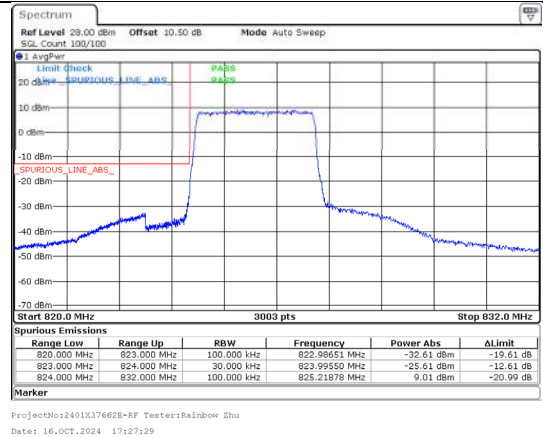
Band 5 3MHz/847.5/High 16QAM 15@0



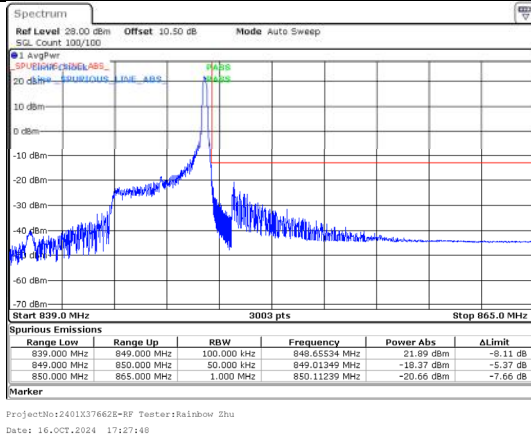
Band 5 3MHz/825.5/Low QPSK 1@0



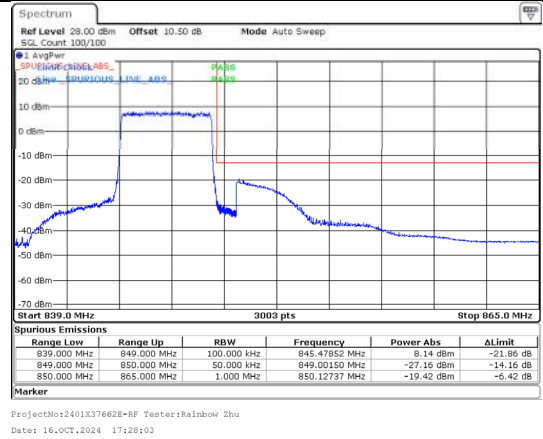
Band 5 3MHz/825.5/Low QPSK 15@0



Band 5 3MHz/825.5/Low 16QAM 1@0

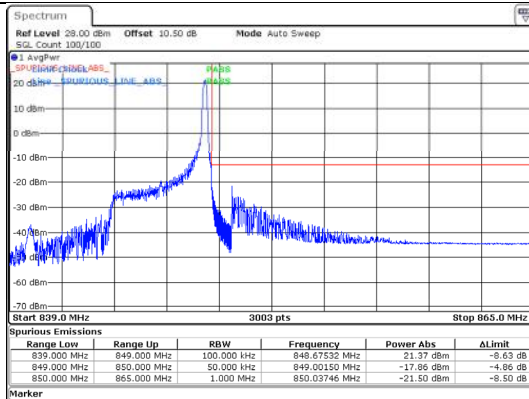


Band 5 3MHz/825.5/Low 16QAM 15@0

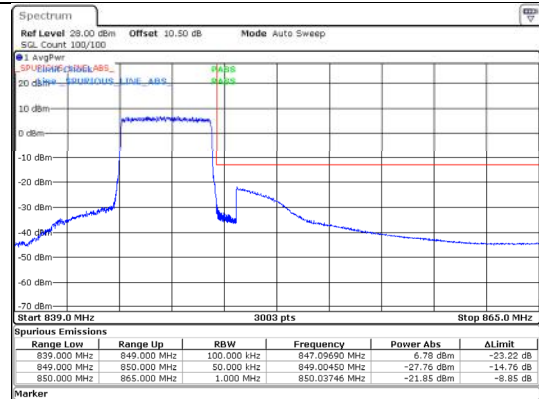


Band 5 5MHz/846.5/High QPSK 1@24

Band 5 5MHz/846.5/High QPSK 25@0

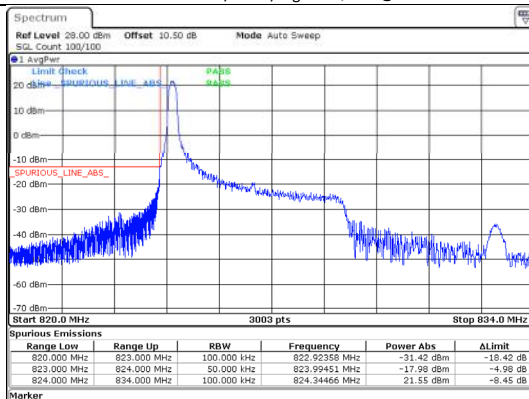


ProjectNo:2401X37662E-RF Tester:Rainbow Zhu
Date: 16.OCT.2024 17:28:18



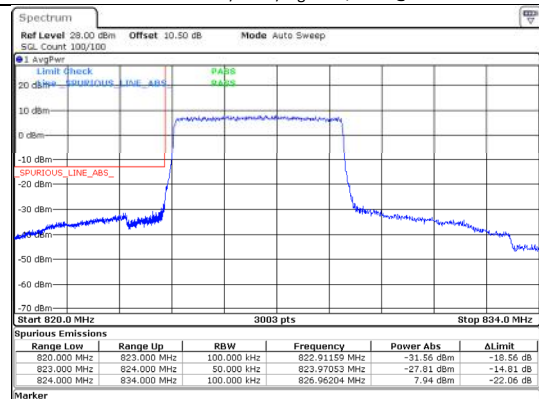
ProjectNo:2401X37662E-RF Tester:Rainbow Zhu
Date: 16.OCT.2024 17:28:34

Band 5 5MHz/846.5/High 16QAM 1@24



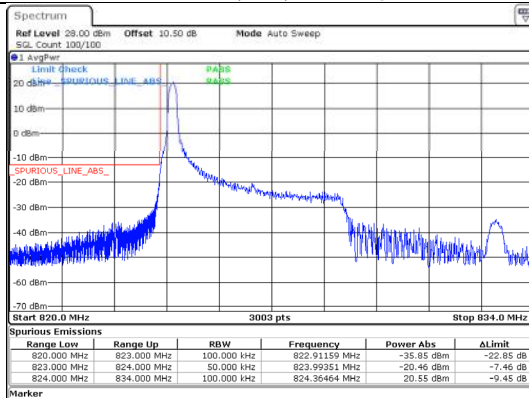
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Date: 16.OCT.2024 17:28:51

Band 5 5MHz/846.5/High 16QAM 25@0



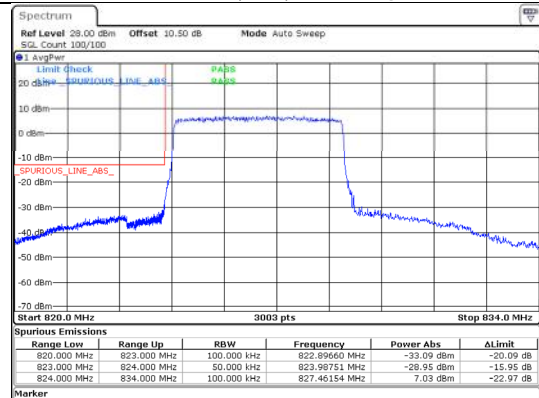
ProjectNo:2401X37662E-RF Tester:Rainbow Zhu
Date: 16.OCT.2024 17:29:06

Band 5 5MHz/826.5/Low QPSK 1@0



ProjectNo:2401X37662E-RF Tester:Rainbow Zhu
Date: 16.OCT.2024 17:29:22

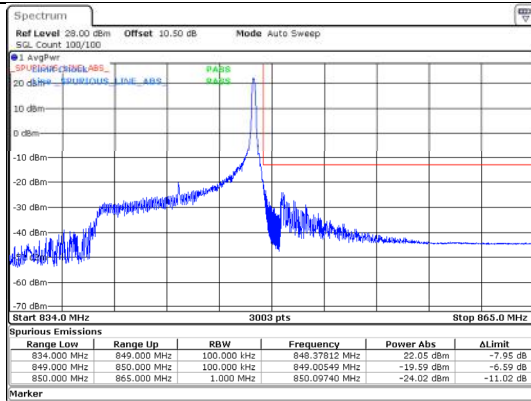
Band 5 5MHz/826.5/Low QPSK 25@0



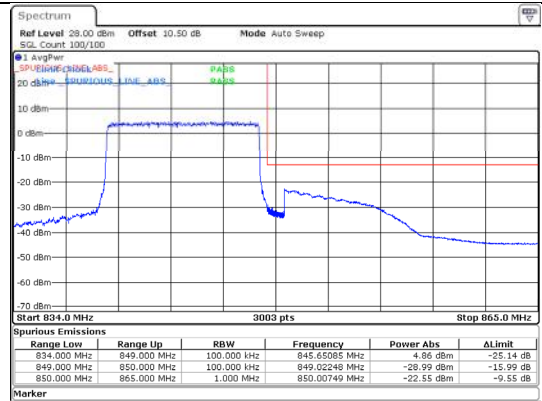
ProjectNo:2401X37662E-RF Tester:Rainbow Zhu
Date: 16.OCT.2024 17:29:37

Band 5 5MHz/826.5/Low 16QAM 1@0

Band 5 5MHz/826.5/Low 16QAM 25@0

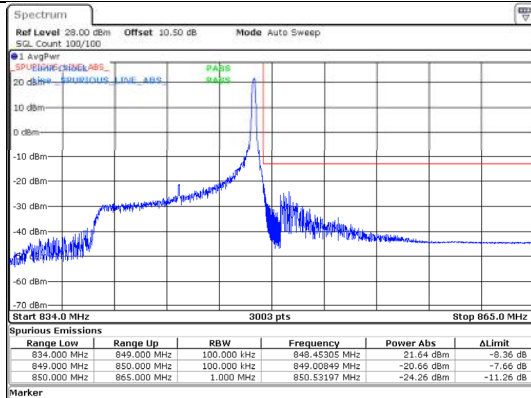


ProjectNo:2401X37662E-RF Tester:Rainbow Zhu
Date: 16.OCT.2024 17:30:03



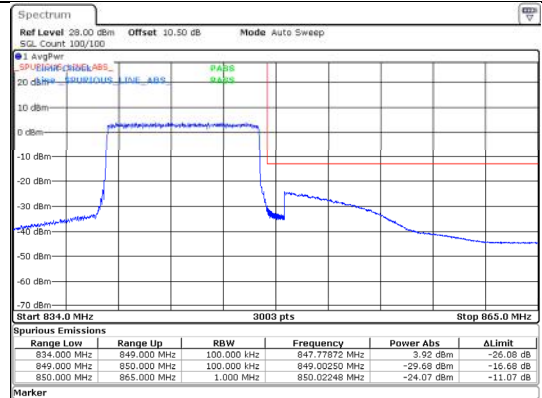
ProjectNo:2401X37662E-RF Tester:Rainbow Zhu
Date: 16.OCT.2024 17:30:18

Band 5 10MHz/844.0/High QPSK 1@49



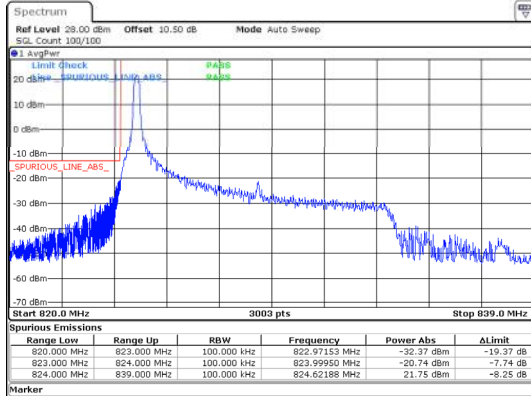
ProjectNo:2401X37662E-RF Tester:Rainbow Zhu
Date: 16.OCT.2024 17:30:34

Band 5 10MHz/844.0/High QPSK 50@0



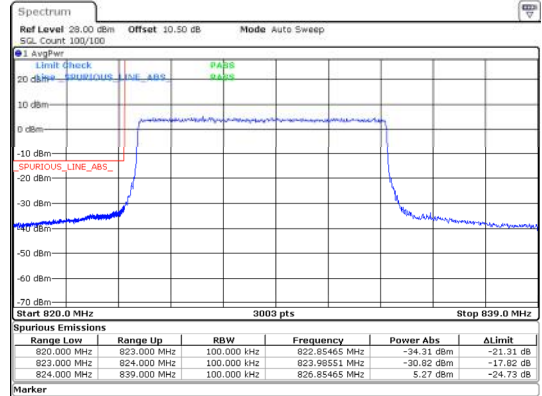
ProjectNo:2401X37662E-RF Tester:Rainbow Zhu
Date: 16.OCT.2024 17:30:49

Band 5 10MHz/844.0/High 16QAM 1@49



ProjectNo:2401X37662E-RF Tester:Rainbow Zhu
Date: 16.OCT.2024 17:31:07

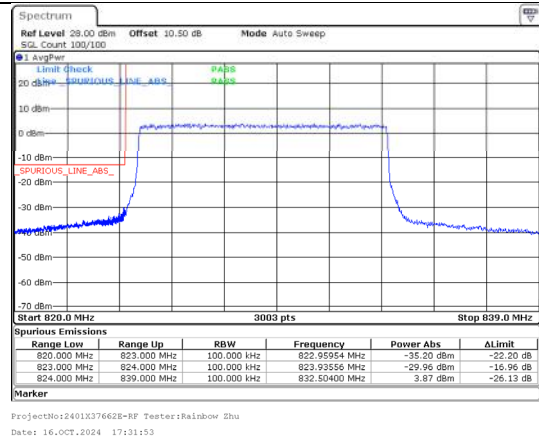
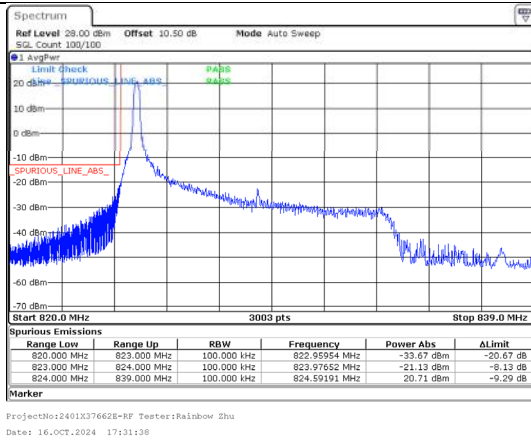
Band 5 10MHz/844.0/High 16QAM 50@0



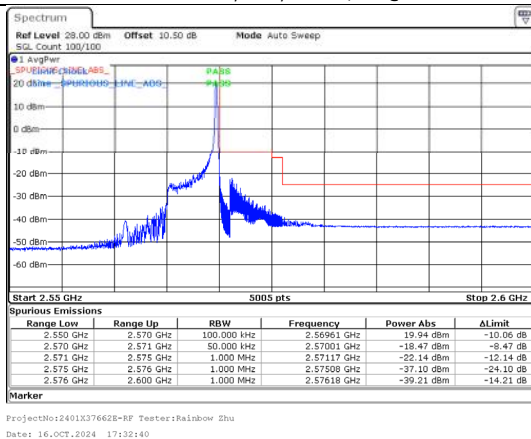
ProjectNo:2401X37662E-RF Tester:Rainbow Zhu
Date: 16.OCT.2024 17:31:22

Band 5 10MHz/829.0/Low QPSK 1@0

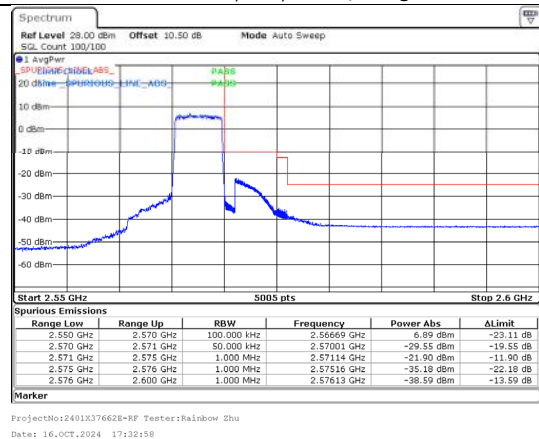
Band 5 10MHz/829.0/Low QPSK 50@0



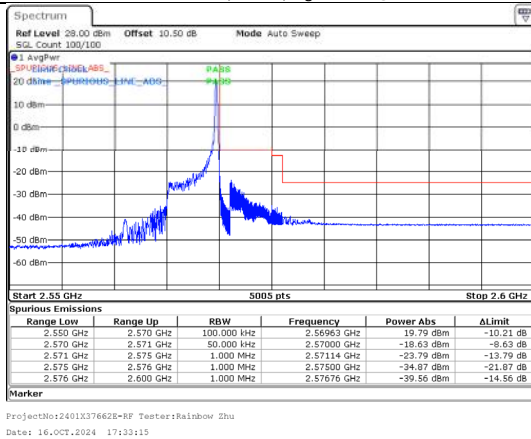
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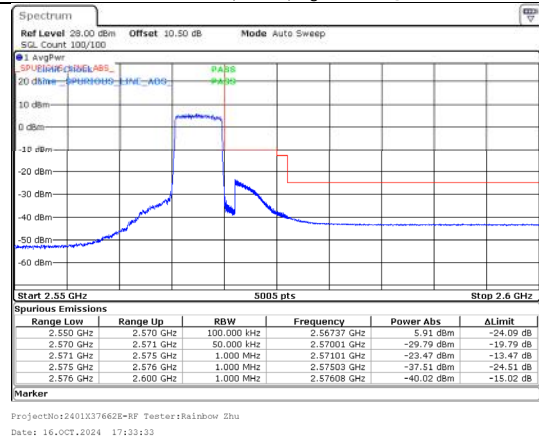
Band 5 10MHz/829.0/Low 16QAM 50@0



Band 7 5MHz/2567.5/High QPSK 1@24

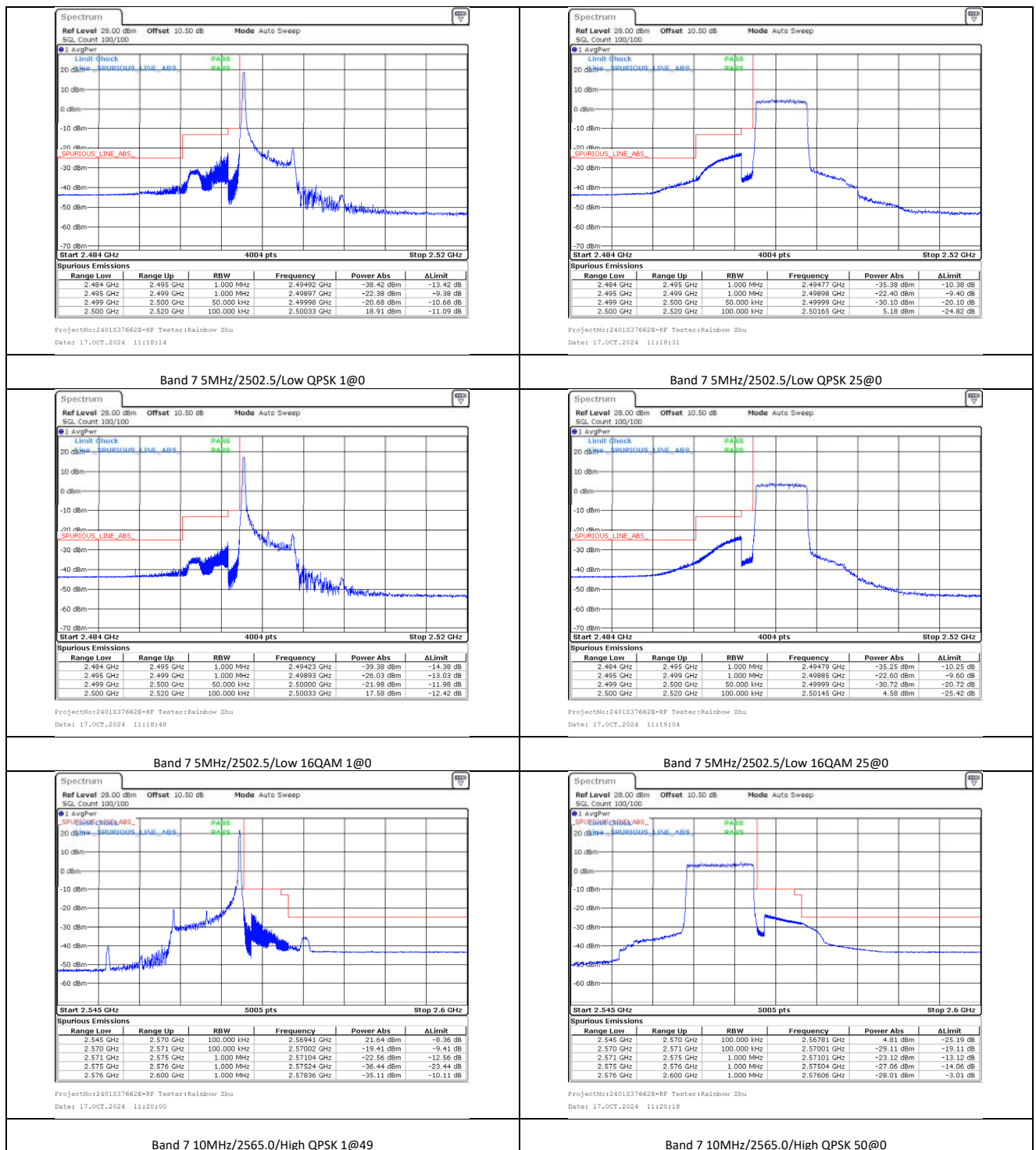


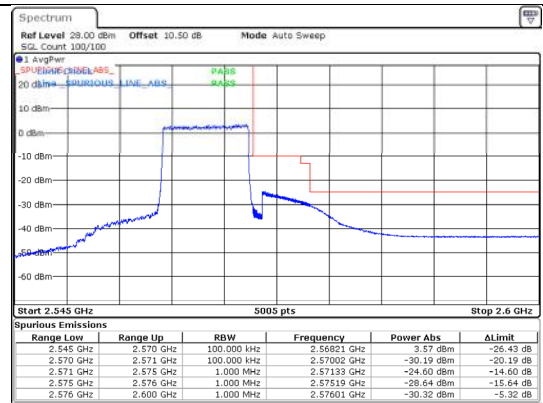
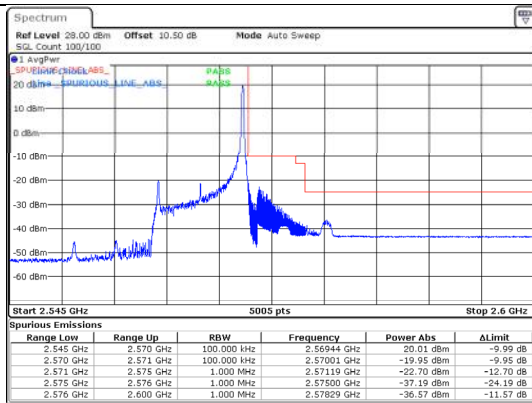
Band 7 5MHz/2567.5/High QPSK 25@0



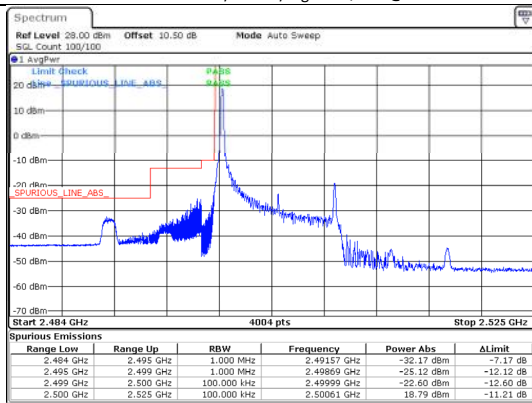
Band 7 5MHz/2567.5/High 16QAM 1@24

Band 7 5MHz/2567.5/High 16QAM 25@0

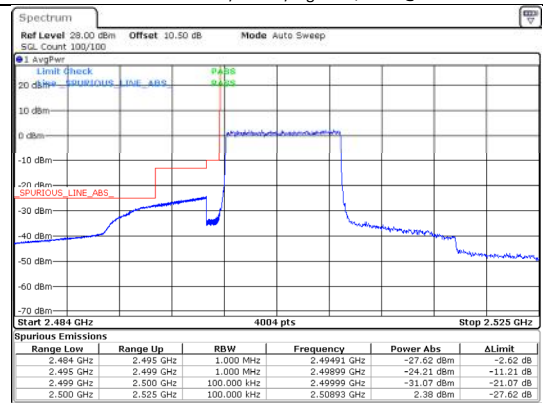




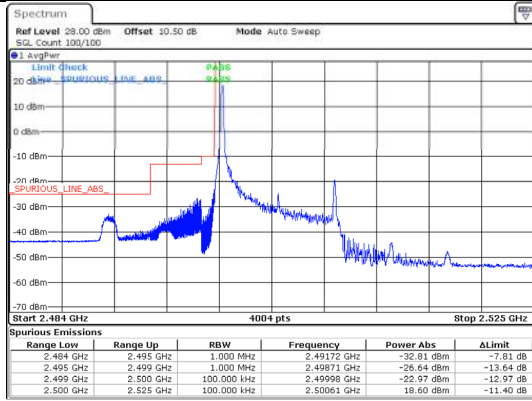
Band 7 10MHz/2565.0/High 16QAM 1@49



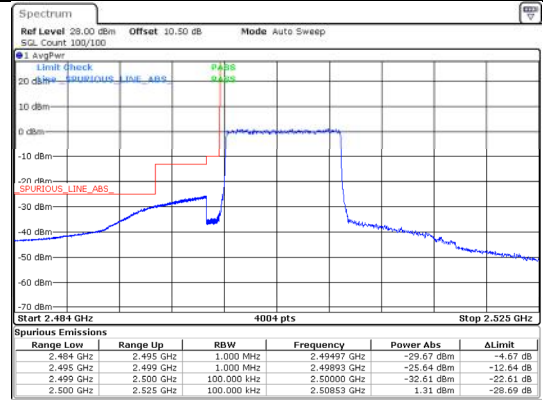
Band 7 10MHz/2565.0/High 16QAM 50@0



Band 7 10MHz/2505.0/Low QPSK 1@0

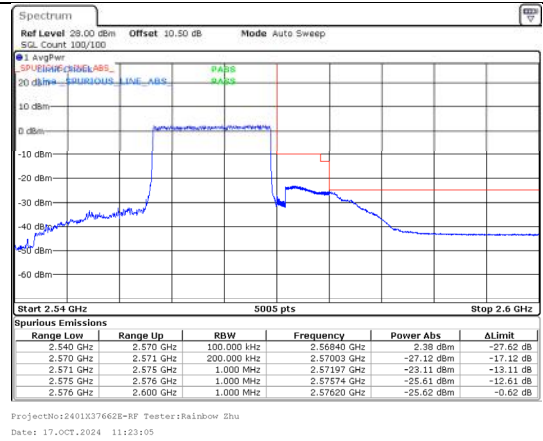
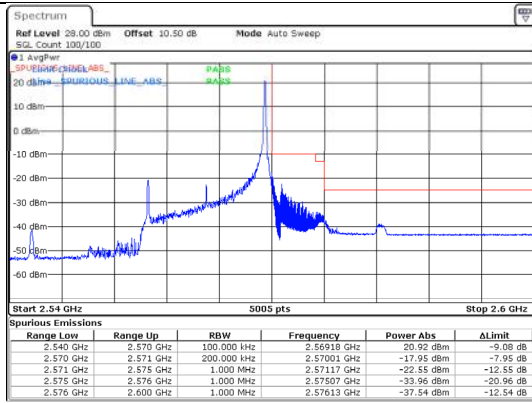


Band 7 10MHz/2505.0/Low QPSK 50@0

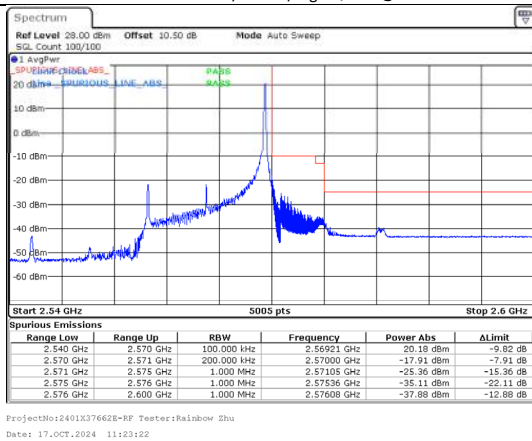


Band 7 10MHz/2505.0/Low 16QAM 1@0

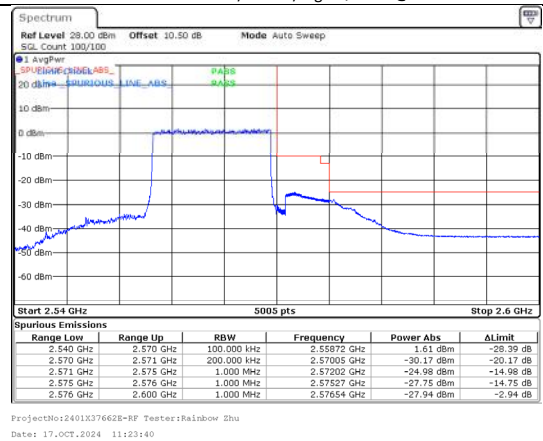
Band 7 10MHz/2505.0/Low 16QAM 50@0



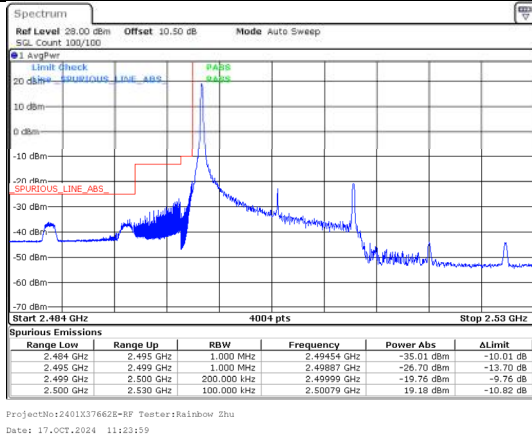
Band 7 15MHz/2562.5/High QPSK 1@74



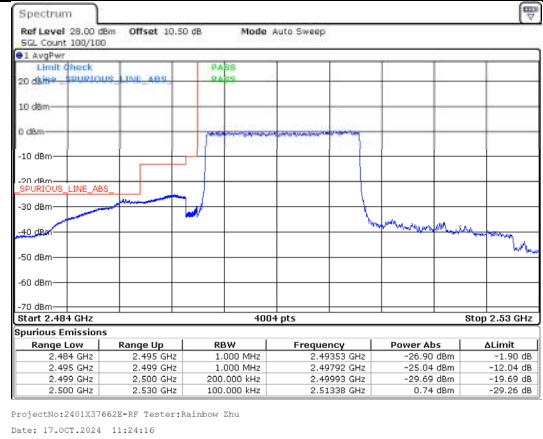
Band 7 15MHz/2562.5/High QPSK 75@0



Band 7 15MHz/2562.5/High 16QAM 1@74

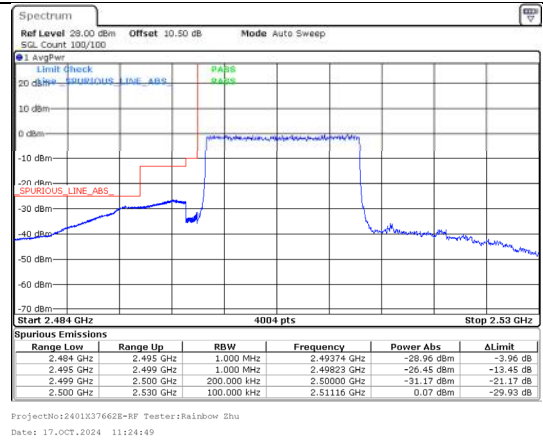
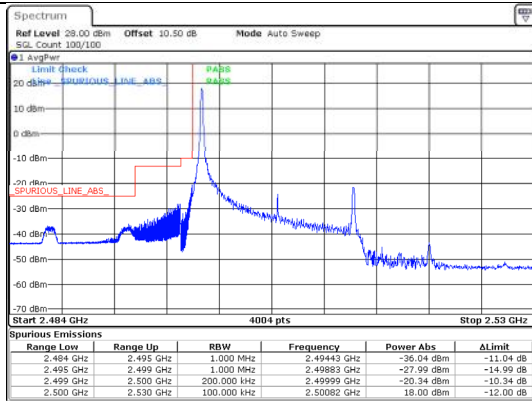


Band 7 15MHz/2562.5/High 16QAM 75@0

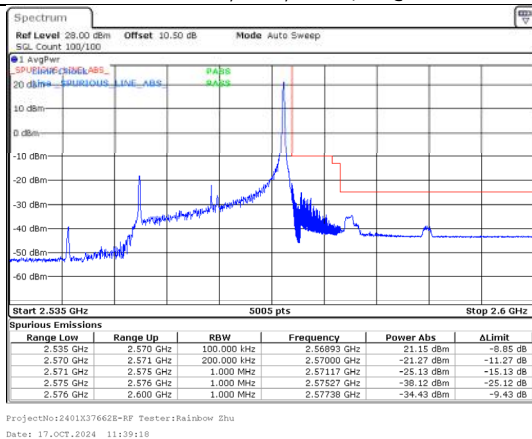


Band 7 15MHz/2507.5/Low QPSK 1@0

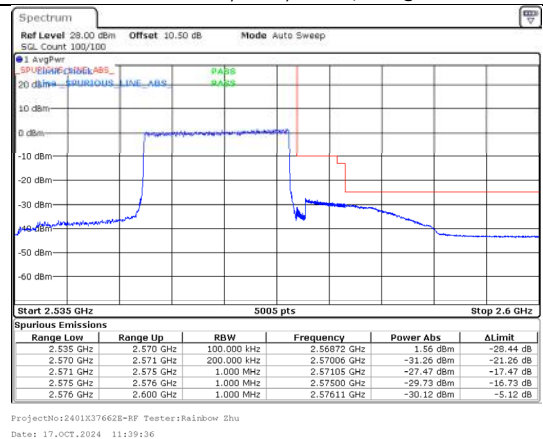
Band 7 15MHz/2507.5/Low QPSK 75@0



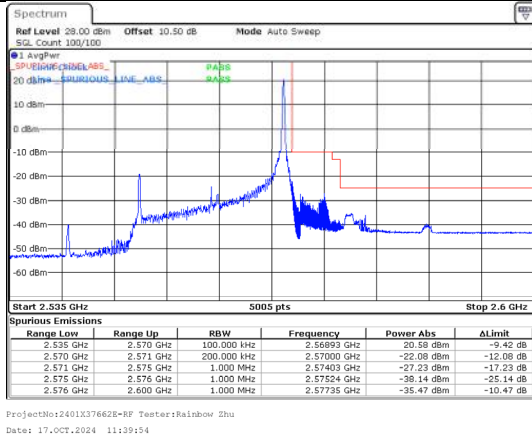
Band 7 15MHz/2507.5/Low 16QAM 1@0



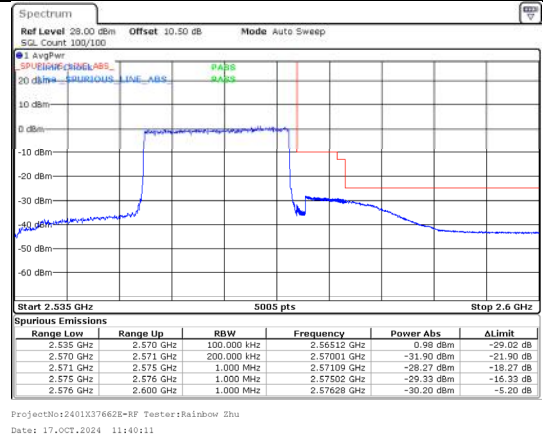
Band 7 15MHz/2507.5/Low 16QAM 75@0



Band 7 20MHz/2560.0/High QPSK 1@99

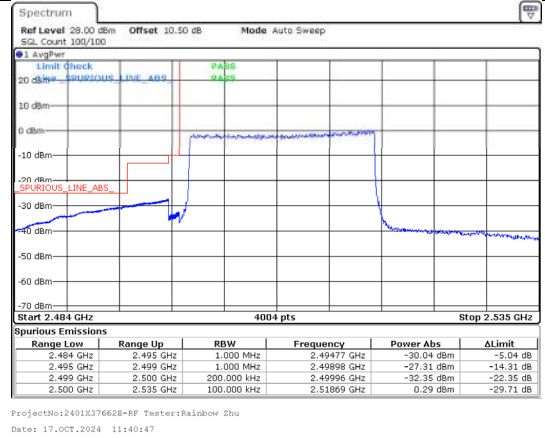
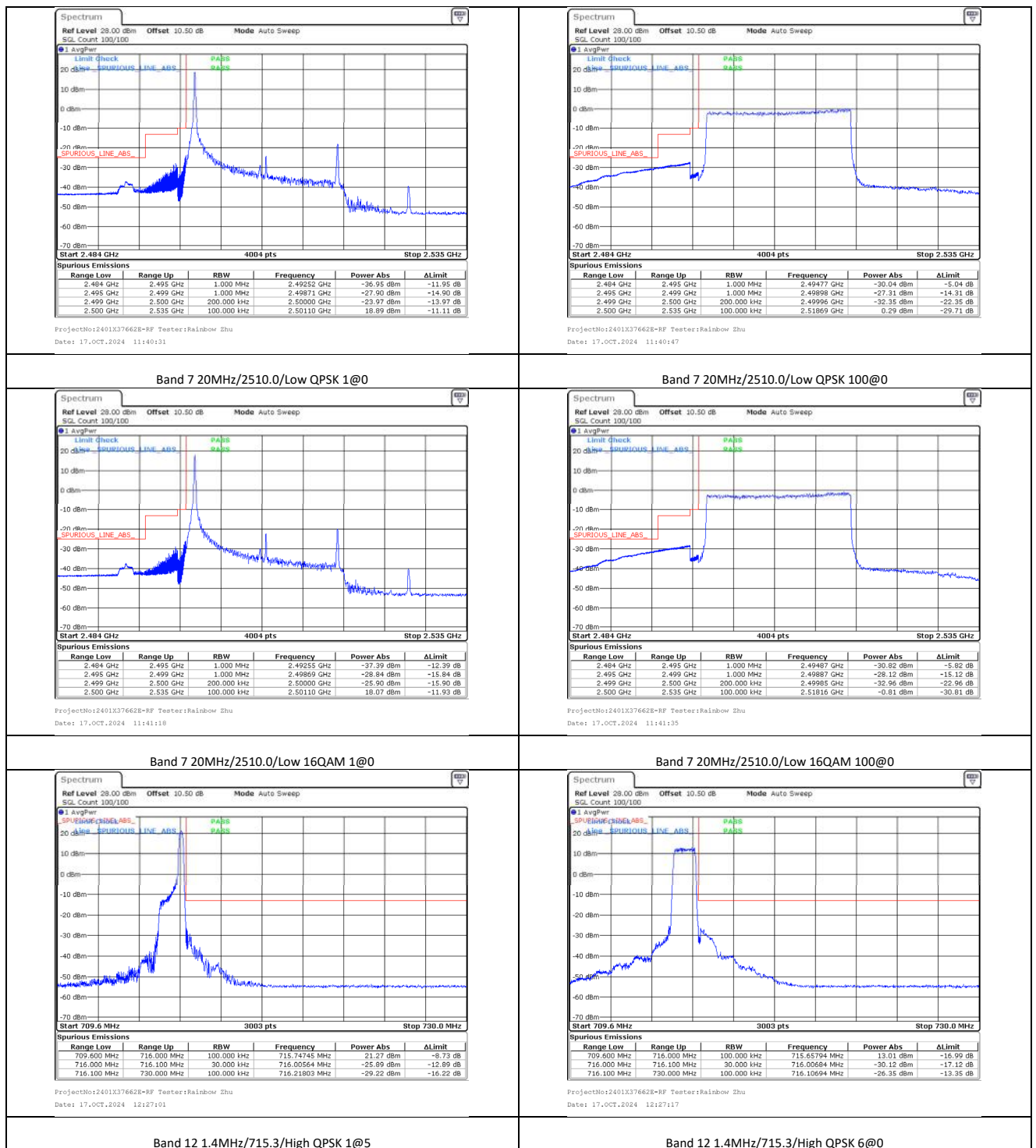


Band 7 20MHz/2560.0/High QPSK 100@0

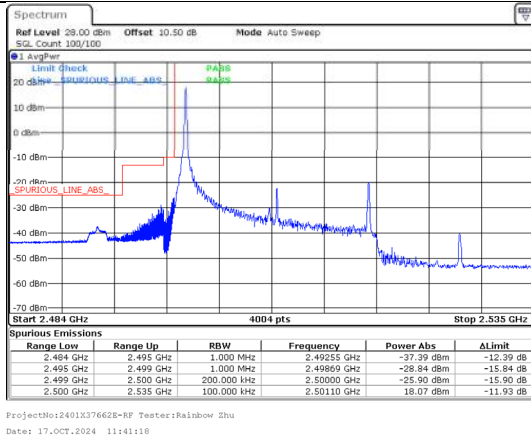


Band 7 20MHz/2560.0/High 16QAM 1@99

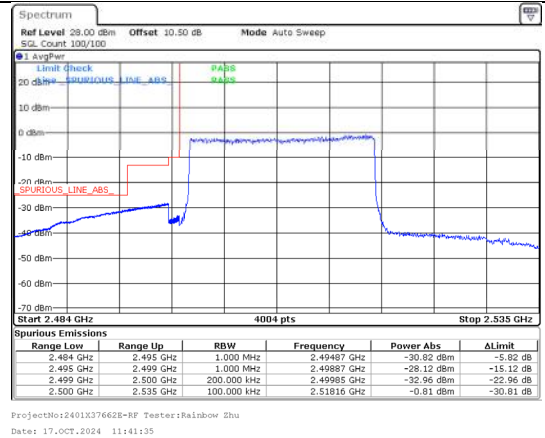
Band 7 20MHz/2560.0/High 16QAM 100@0



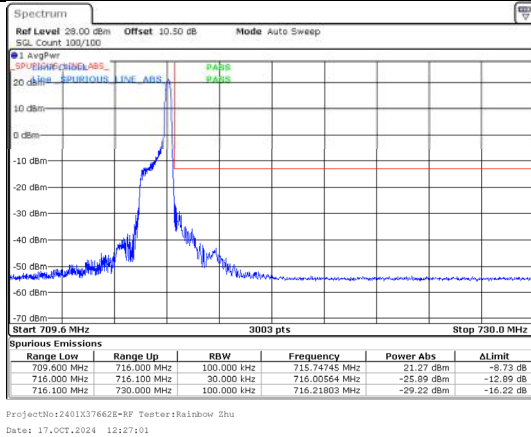
Band 7 20MHz/2510.0/Low QPSK 1@0



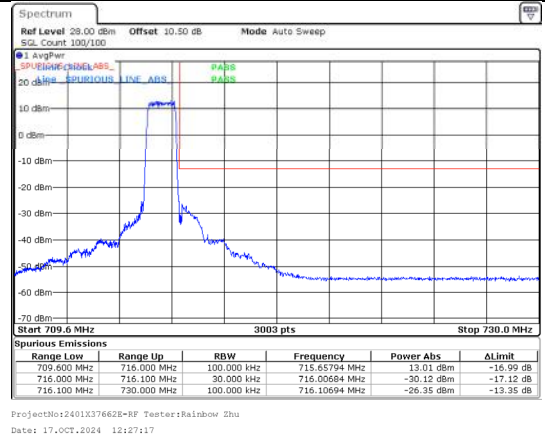
Band 7 20MHz/2510.0/Low QPSK 100@0



Band 7 20MHz/2510.0/Low 16QAM 1@0

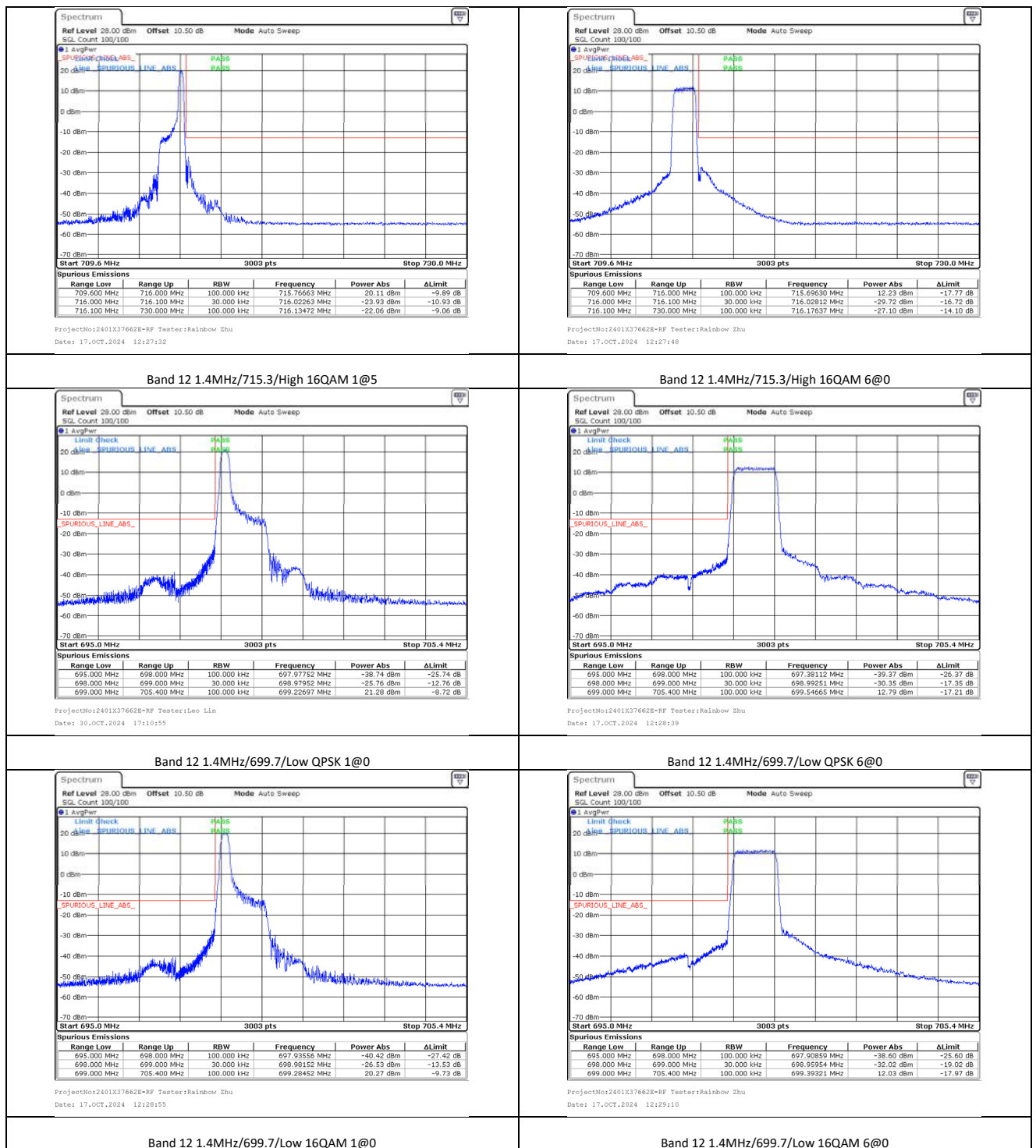


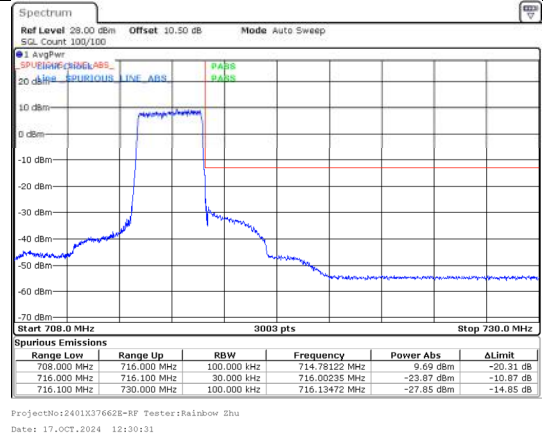
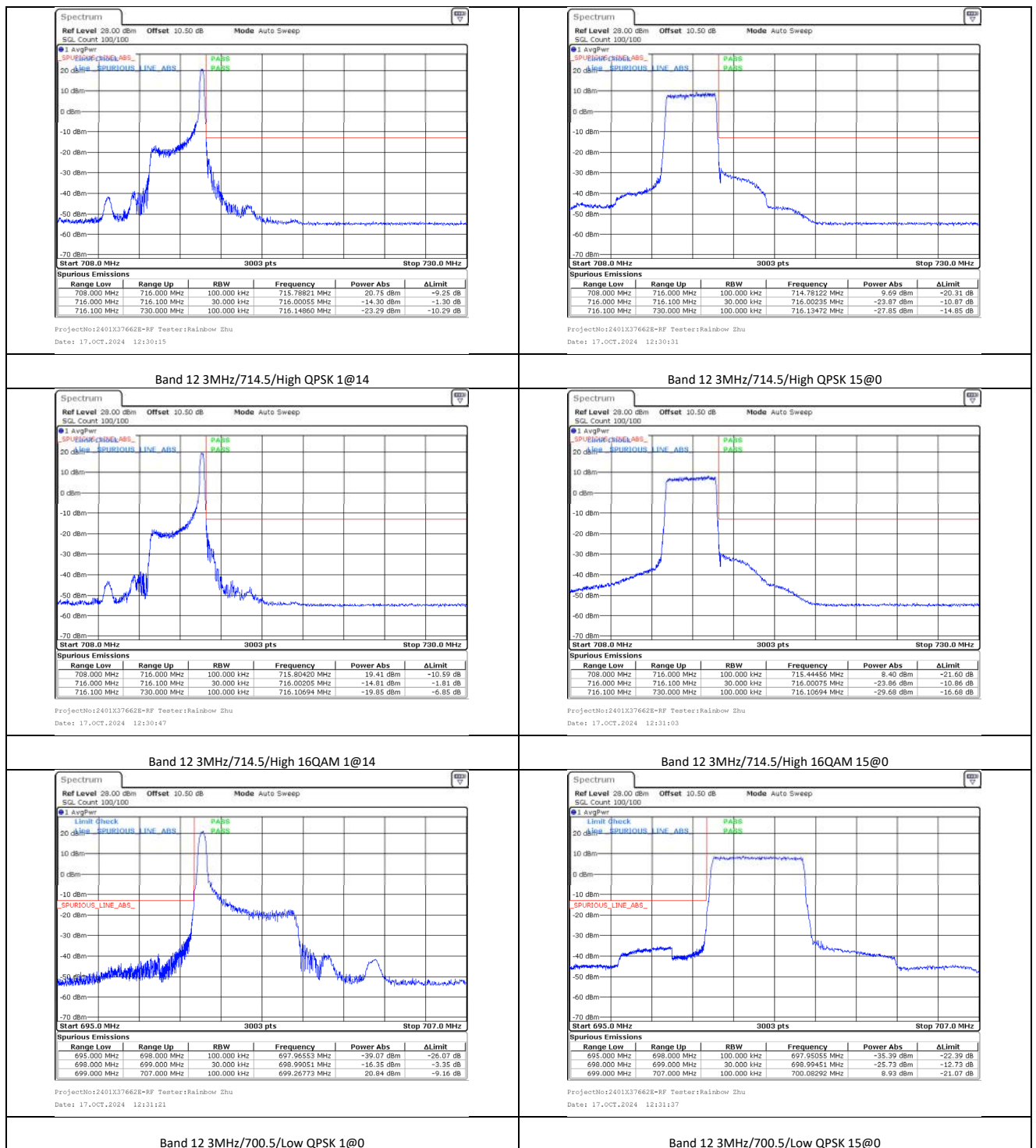
Band 7 20MHz/2510.0/Low 16QAM 100@0



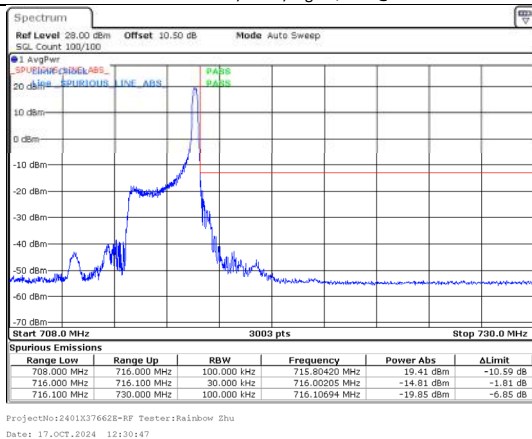
Band 12 1.4MHz/715.3/High QPSK 1@5

Band 12 1.4MHz/715.3/High QPSK 6@0

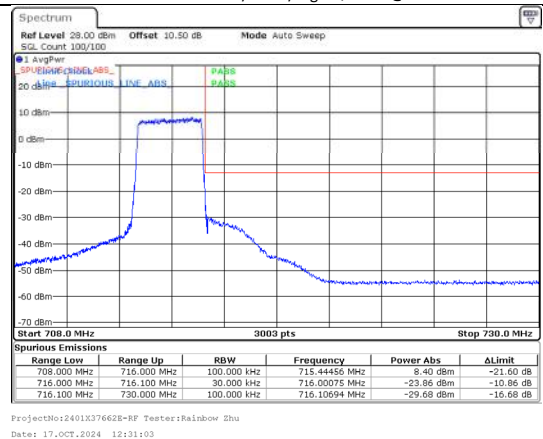




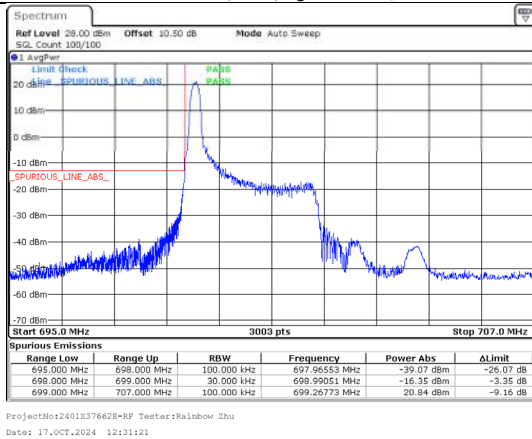
Band 12 3MHz/714.5/High QPSK 1@14



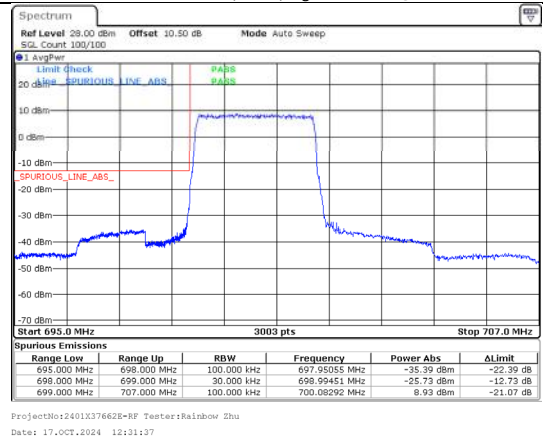
Band 12 3MHz/714.5/High QPSK 15@0



Band 12 3MHz/714.5/High 16QAM 1@14

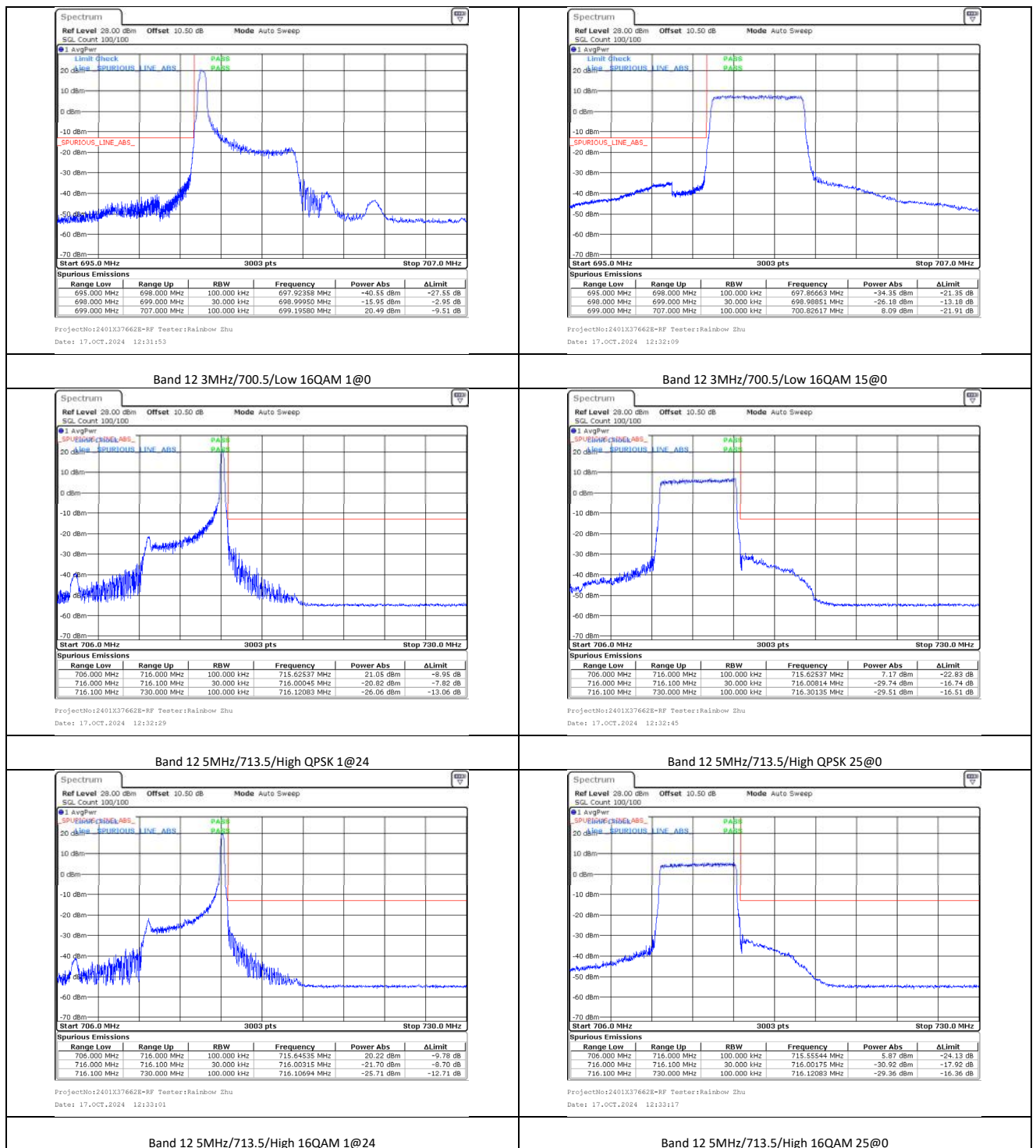


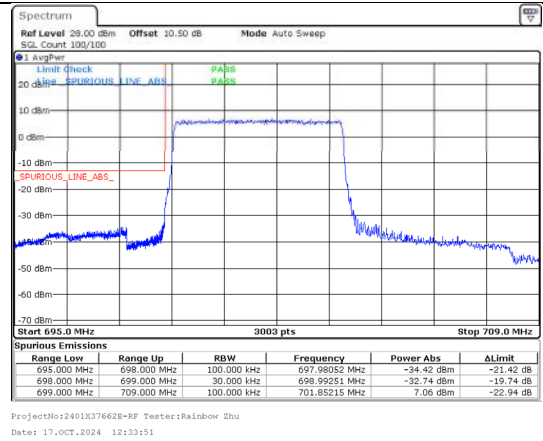
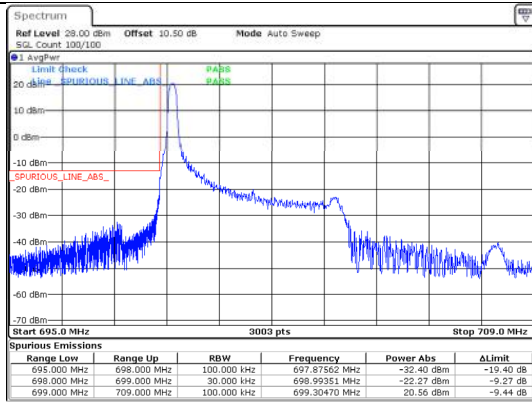
Band 12 3MHz/714.5/High 16QAM 15@0



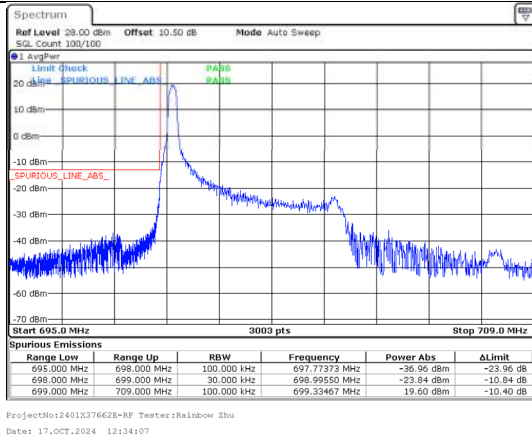
Band 12 3MHz/700.5/Low QPSK 1@0

Band 12 3MHz/700.5/Low QPSK 15@0

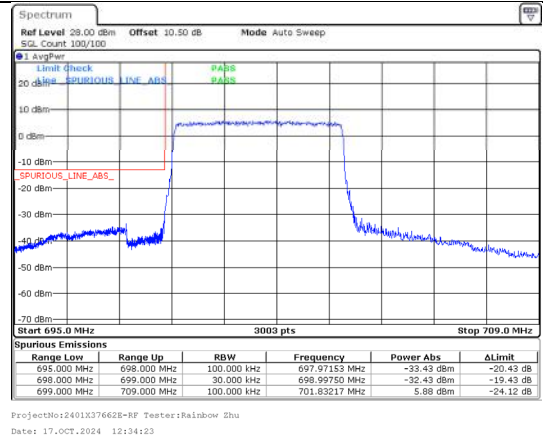




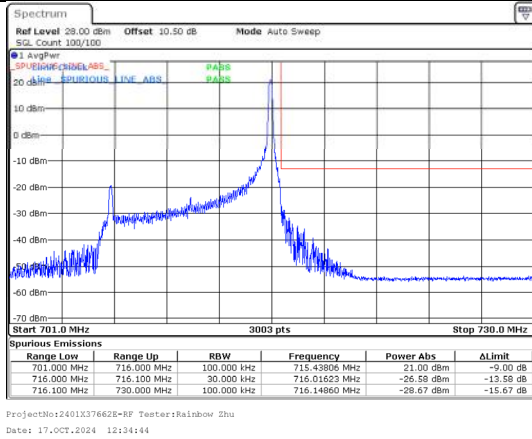
Band 12 5MHz/701.5/Low QPSK 1@0



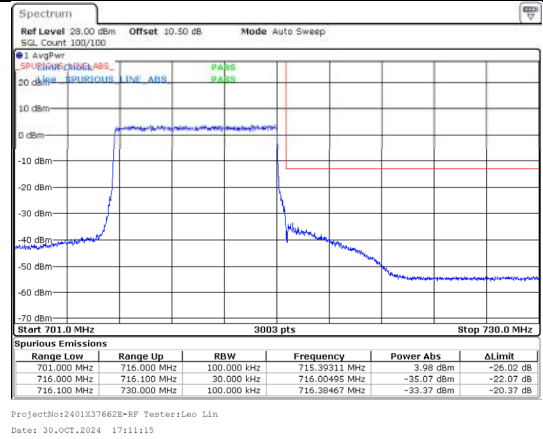
Band 12 5MHz/701.5/Low QPSK 25@0



Band 12 5MHz/701.5/Low 16QAM 1@0

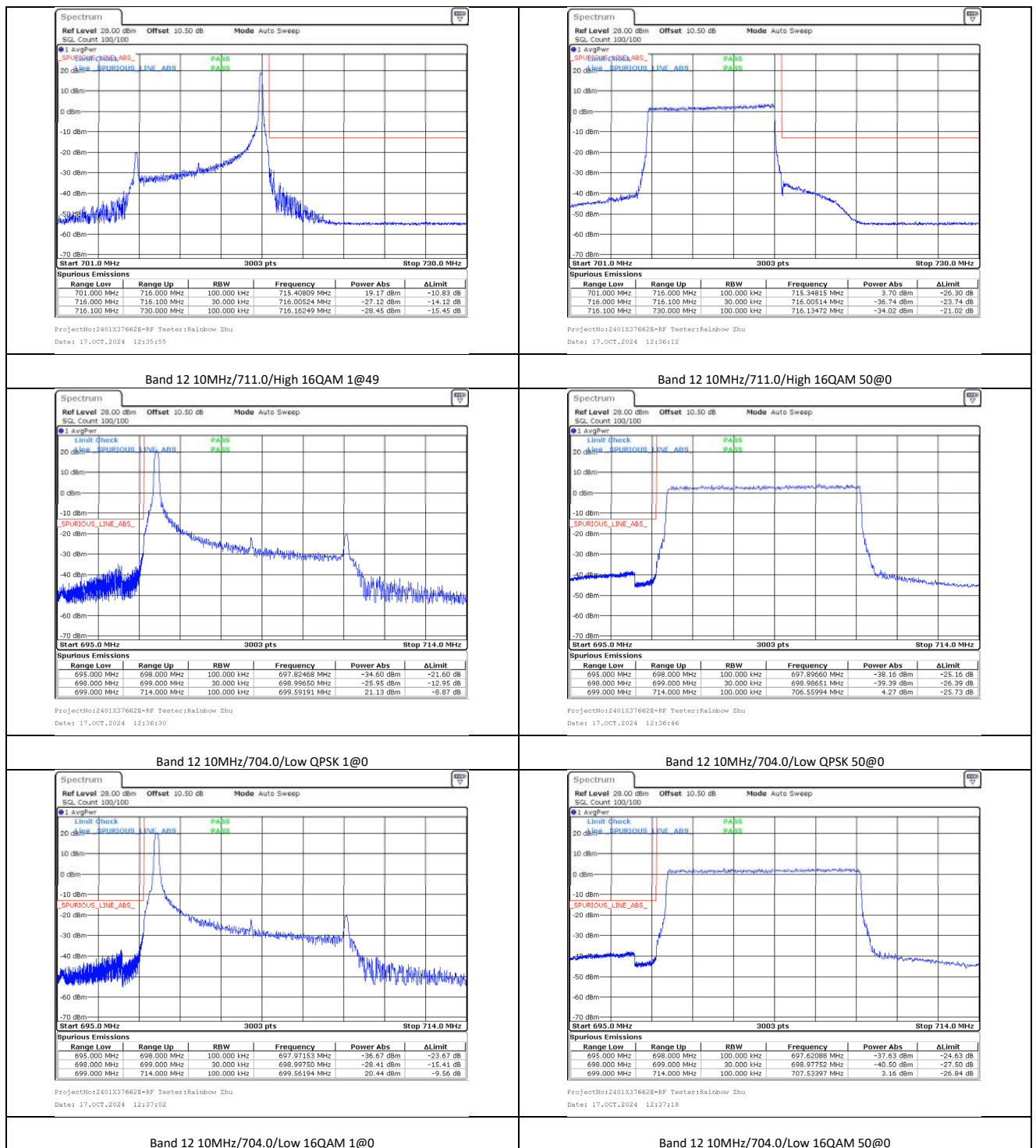


Band 12 5MHz/701.5/Low 16QAM 25@0



Band 12 10MHz/711.0/High QPSK 1@49

Band 12 10MHz/711.0/High QPSK 50@0



Frequency Stability

Band	Freq (MHz)	Lower Edge (MHz) (Result)	Limit (1850MHz)	Upper Edge(MHz) (Result)	Limit (1910MHz)	Environment
20MHz Bandwidth QPSK						
2	1860/1900	1850.041	1850.000	1909.852	1910.000	20°C/3.42V _{DC}
2	1860/1900	1850.100	1850.000	1909.860	1910.000	20°C/4.37V _{DC}
2	1860/1900	1850.195	1850.000	1909.898	1910.000	-30°C/3.8V _{DC}
2	1860/1900	1850.165	1850.000	1909.991	1910.000	-20°C/3.8V _{DC}
2	1860/1900	1850.036	1850.000	1909.892	1910.000	-10°C/3.8V _{DC}
2	1860/1900	1850.054	1850.000	1909.897	1910.000	0°C/3.8V _{DC}
2	1860/1900	1850.002	1850.000	1909.941	1910.000	10°C/3.8V _{DC}
2	1860/1900	1850.060	1850.000	1909.848	1910.000	20°C/3.8V _{DC}
2	1860/1900	1850.090	1850.000	1909.978	1910.000	30°C/3.8V _{DC}
2	1860/1900	1850.137	1850.000	1909.900	1910.000	40°C/3.8V _{DC}
2	1860/1900	1850.055	1850.000	1909.900	1910.000	50°C/3.8V _{DC}
20MHz Bandwidth 16QAM						
2	1860/1900	1850.204	1850.000	1909.708	1910.000	20°C/3.42V _{DC}
2	1860/1900	1850.110	1850.000	1909.727	1910.000	20°C/4.37V _{DC}
2	1860/1900	1850.100	1850.000	1909.671	1910.000	-30°C/3.8V _{DC}
2	1860/1900	1850.113	1850.000	1909.634	1910.000	-20°C/3.8V _{DC}
2	1860/1900	1850.090	1850.000	1909.625	1910.000	-10°C/3.8V _{DC}
2	1860/1900	1850.191	1850.000	1909.669	1910.000	0°C/3.8V _{DC}
2	1860/1900	1850.173	1850.000	1909.646	1910.000	10°C/3.8V _{DC}
2	1860/1900	1850.153	1850.000	1909.713	1910.000	20°C/3.8V _{DC}
2	1860/1900	1850.114	1850.000	1909.705	1910.000	30°C/3.8V _{DC}
2	1860/1900	1850.167	1850.000	1909.762	1910.000	40°C/3.8V _{DC}
2	1860/1900	1850.114	1850.000	1909.785	1910.000	50°C/3.8V _{DC}

Band	Freq (MHz)	Lower Edge (MHz) (Result)	Limit (1710MHz)	Upper Edge(MHz) (Result)	Limit (1755MHz)	Environment
20MHz Bandwidth QPSK						
4	1720/1745	1710.290	1710.000	1754.870	1755.000	20°C/3.42V _{DC}
4	1720/1745	1710.246	1710.000	1754.815	1755.000	20°C/4.37V _{DC}
4	1720/1745	1710.248	1710.000	1754.740	1755.000	-30°C/3.8V _{DC}
4	1720/1745	1710.269	1710.000	1754.881	1755.000	-20°C/3.8V _{DC}
4	1720/1745	1710.235	1710.000	1754.752	1755.000	-10°C/3.8V _{DC}
4	1720/1745	1710.242	1710.000	1754.830	1755.000	0°C/3.8V _{DC}
4	1720/1745	1710.347	1710.000	1754.800	1755.000	10°C/3.8V _{DC}
4	1720/1745	1710.304	1710.000	1754.877	1755.000	20°C/3.8V _{DC}
4	1720/1745	1710.316	1710.000	1754.856	1755.000	30°C/3.8V _{DC}
4	1720/1745	1710.178	1710.000	1754.799	1755.000	40°C/3.8V _{DC}
4	1720/1745	1710.237	1710.000	1754.985	1755.000	50°C/3.8V _{DC}
20MHz Bandwidth 16QAM						
4	1720/1745	1710.275	1710.000	1754.672	1755.000	20°C/3.42V _{DC}
4	1720/1745	1710.182	1710.000	1754.659	1755.000	20°C/4.37V _{DC}
4	1720/1745	1710.284	1710.000	1754.613	1755.000	-30°C/3.8V _{DC}
4	1720/1745	1710.199	1710.000	1754.665	1755.000	-20°C/3.8V _{DC}
4	1720/1745	1710.184	1710.000	1754.617	1755.000	-10°C/3.8V _{DC}
4	1720/1745	1710.238	1710.000	1754.650	1755.000	0°C/3.8V _{DC}
4	1720/1745	1710.190	1710.000	1754.668	1755.000	10°C/3.8V _{DC}
4	1720/1745	1710.267	1710.000	1754.662	1755.000	20°C/3.8V _{DC}
4	1720/1745	1710.270	1710.000	1754.700	1755.000	30°C/3.8V _{DC}
4	1720/1745	1710.189	1710.000	1754.819	1755.000	40°C/3.8V _{DC}
4	1720/1745	1710.151	1710.000	1754.809	1755.000	50°C/3.8V _{DC}

Test Modulation:	10 MHz QPSK		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.80	6.38	0.00763	2.5
	-20	3.80	8.18	0.00978	2.5
	-10	3.80	4.28	0.00512	2.5
	0	3.80	7.68	0.00918	2.5
	10	3.80	5.98	0.00715	2.5
	20	3.80	5.58	0.00667	2.5
	30	3.80	4.46	0.00533	2.5
	40	3.80	2.27	0.00271	2.5
	50	3.80	3.81	0.00455	2.5
Frequency Stability vs. Voltage	20	3.42	4.36	0.00521	2.5
	20	4.37	5.22	0.00624	2.5
				Result:	Pass

Test Modulation:	10 MHz 16QAM		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.80	5.36	0.00641	2.5
	-20	3.80	5.77	0.00690	2.5
	-10	3.80	2.57	0.00307	2.5
	0	3.80	4.14	0.00495	2.5
	10	3.80	6.05	0.00723	2.5
	20	3.80	7.15	0.00855	2.5
	30	3.80	4.37	0.00522	2.5
	40	3.80	5.72	0.00684	2.5
	50	3.80	7.18	0.00858	2.5
Frequency Stability vs. Voltage	20	3.42	6.37	0.00762	2.5
	20	4.37	7.18	0.00858	2.5
				Result:	Pass

Band	Freq (MHz)	Lower Edge (MHz) (Result)	Limit (2500MHz)	Upper Edge(MHz) (Result)	Limit (2570MHz)	Environment
20MHz Bandwidth QPSK						
7	2510/2560	2500.187	2500.000	2569.564	2570.000	20°C/3.42V _{DC}
7	2510/2560	2500.216	2500.000	2569.543	2570.000	20°C/4.37V _{DC}
7	2510/2560	2500.137	2500.000	2569.627	2570.000	-30°C/3.8V _{DC}
7	2510/2560	2500.240	2500.000	2569.556	2570.000	-20°C/3.8V _{DC}
7	2510/2560	2500.152	2500.000	2569.528	2570.000	-10°C/3.8V _{DC}
7	2510/2560	2500.171	2500.000	2569.558	2570.000	0°C/3.8V _{DC}
7	2510/2560	2500.194	2500.000	2569.600	2570.000	10°C/3.8V _{DC}
7	2510/2560	2500.190	2500.000	2569.629	2570.000	20°C/3.8V _{DC}
7	2510/2560	2500.178	2500.000	2569.526	2570.000	30°C/3.8V _{DC}
7	2510/2560	2500.158	2500.000	2569.443	2570.000	40°C/3.8V _{DC}
7	2510/2560	2500.170	2500.000	2569.533	2570.000	50°C/3.8V _{DC}
20MHz Bandwidth 16QAM						
7	2510/2560	2500.123	2500.000	2569.588	2570.000	20°C/3.42V _{DC}
7	2510/2560	2500.166	2500.000	2569.599	2570.000	20°C/4.37V _{DC}
7	2510/2560	2500.163	2500.000	2569.538	2570.000	-30°C/3.8V _{DC}
7	2510/2560	2500.154	2500.000	2569.612	2570.000	-20°C/3.8V _{DC}
7	2510/2560	2500.154	2500.000	2569.567	2570.000	-10°C/3.8V _{DC}
7	2510/2560	2500.172	2500.000	2569.609	2570.000	0°C/3.8V _{DC}
7	2510/2560	2500.219	2500.000	2569.673	2570.000	10°C/3.8V _{DC}
7	2510/2560	2500.246	2500.000	2569.665	2570.000	20°C/3.8V _{DC}
7	2510/2560	2500.156	2500.000	2569.643	2570.000	30°C/3.8V _{DC}
7	2510/2560	2500.115	2500.000	2569.537	2570.000	40°C/3.8V _{DC}
7	2510/2560	2500.119	2500.000	2569.661	2570.000	50°C/3.8V _{DC}

Band	Freq (MHz)	Lower Edge (MHz) (Result)	Limit (699MHz)	Upper Edge(MHz) (Result)	Limit (716MHz)	Environment
10MHz Bandwidth QPSK						
12	704/711	699.315	699.000	715.664	716.000	20°C/3.42V _{DC}
12	704/711	699.293	699.000	715.653	716.000	20°C/4.37V _{DC}
12	704/711	699.361	699.000	715.599	716.000	-30°C/3.8V _{DC}
12	704/711	699.256	699.000	715.636	716.000	-20°C/3.8V _{DC}
12	704/711	699.207	699.000	715.600	716.000	-10°C/3.8V _{DC}
12	704/711	699.243	699.000	715.575	716.000	0°C/3.8V _{DC}
12	704/711	699.266	699.000	715.703	716.000	10°C/3.8V _{DC}
12	704/711	699.290	699.000	715.663	716.000	20°C/3.8V _{DC}
12	704/711	699.265	699.000	715.592	716.000	30°C/3.8V _{DC}
12	704/711	699.165	699.000	715.644	716.000	40°C/3.8V _{DC}
12	704/711	699.120	699.000	715.780	716.000	50°C/3.8V _{DC}
10MHz Bandwidth16QAM						
12	704/711	699.248	699.000	715.567	716.000	20°C/3.42V _{DC}
12	704/711	699.195	699.000	715.659	716.000	20°C/4.37V _{DC}
12	704/711	699.256	699.000	715.568	716.000	-30°C/3.8V _{DC}
12	704/711	699.170	699.000	715.605	716.000	-20°C/3.8V _{DC}
12	704/711	699.170	699.000	715.625	716.000	-10°C/3.8V _{DC}
12	704/711	699.227	699.000	715.639	716.000	0°C/3.8V _{DC}
12	704/711	699.226	699.000	715.682	716.000	10°C/3.8V _{DC}
12	704/711	699.212	699.000	715.594	716.000	20°C/3.8V _{DC}
12	704/711	699.285	699.000	715.642	716.000	30°C/3.8V _{DC}
12	704/711	699.141	699.000	715.705	716.000	40°C/3.8V _{DC}
12	704/711	699.125	699.000	715.785	716.000	50°C/3.8V _{DC}