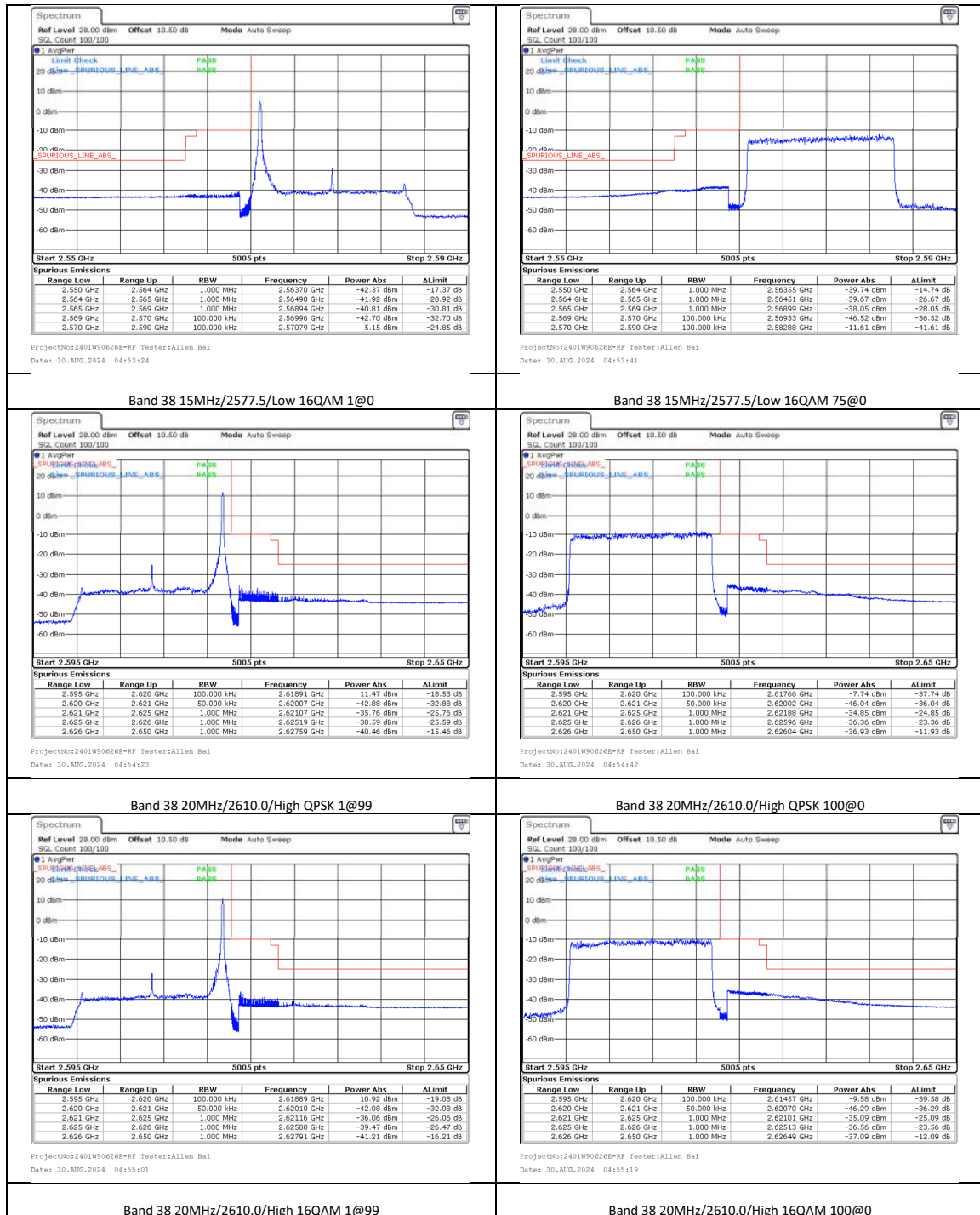
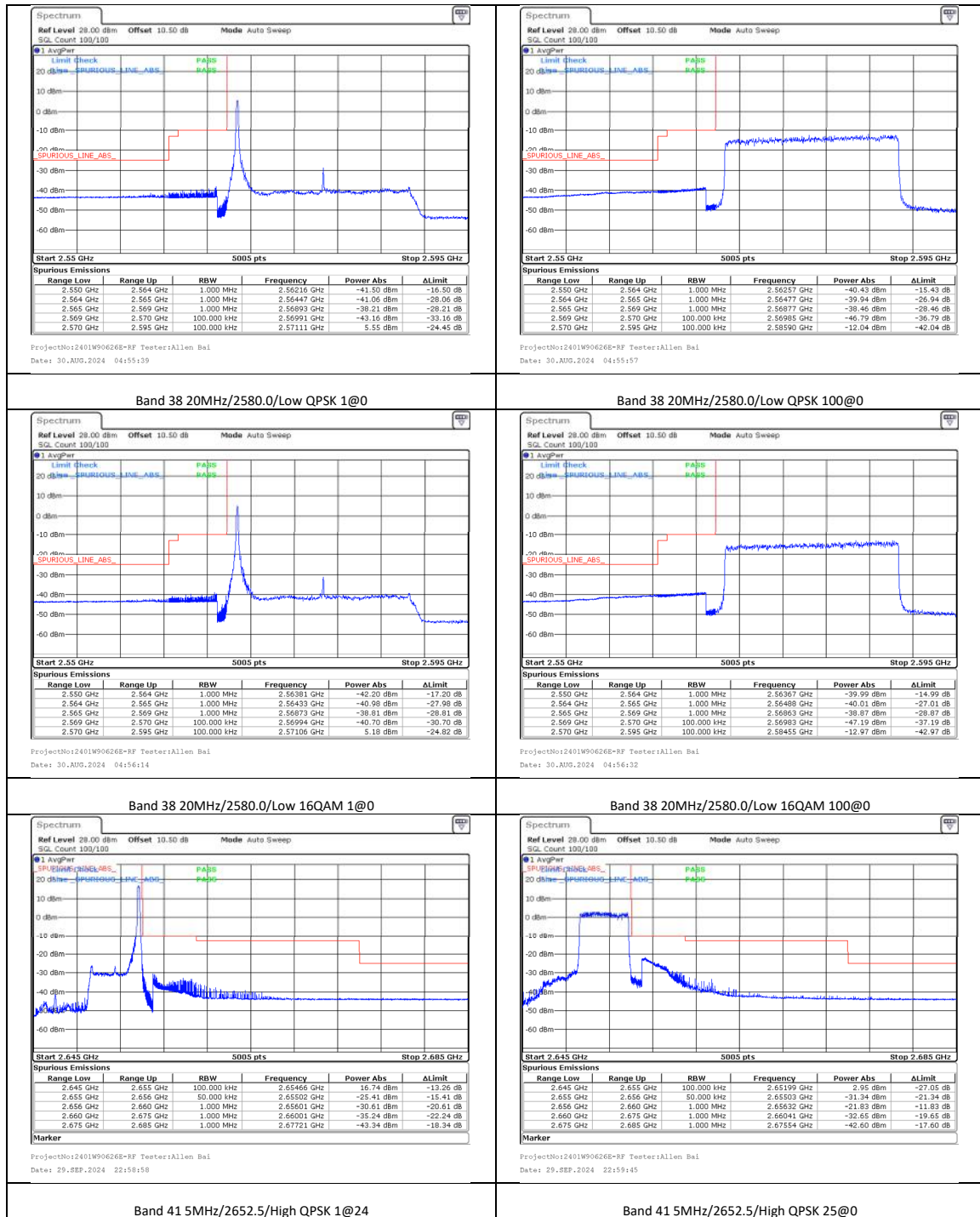
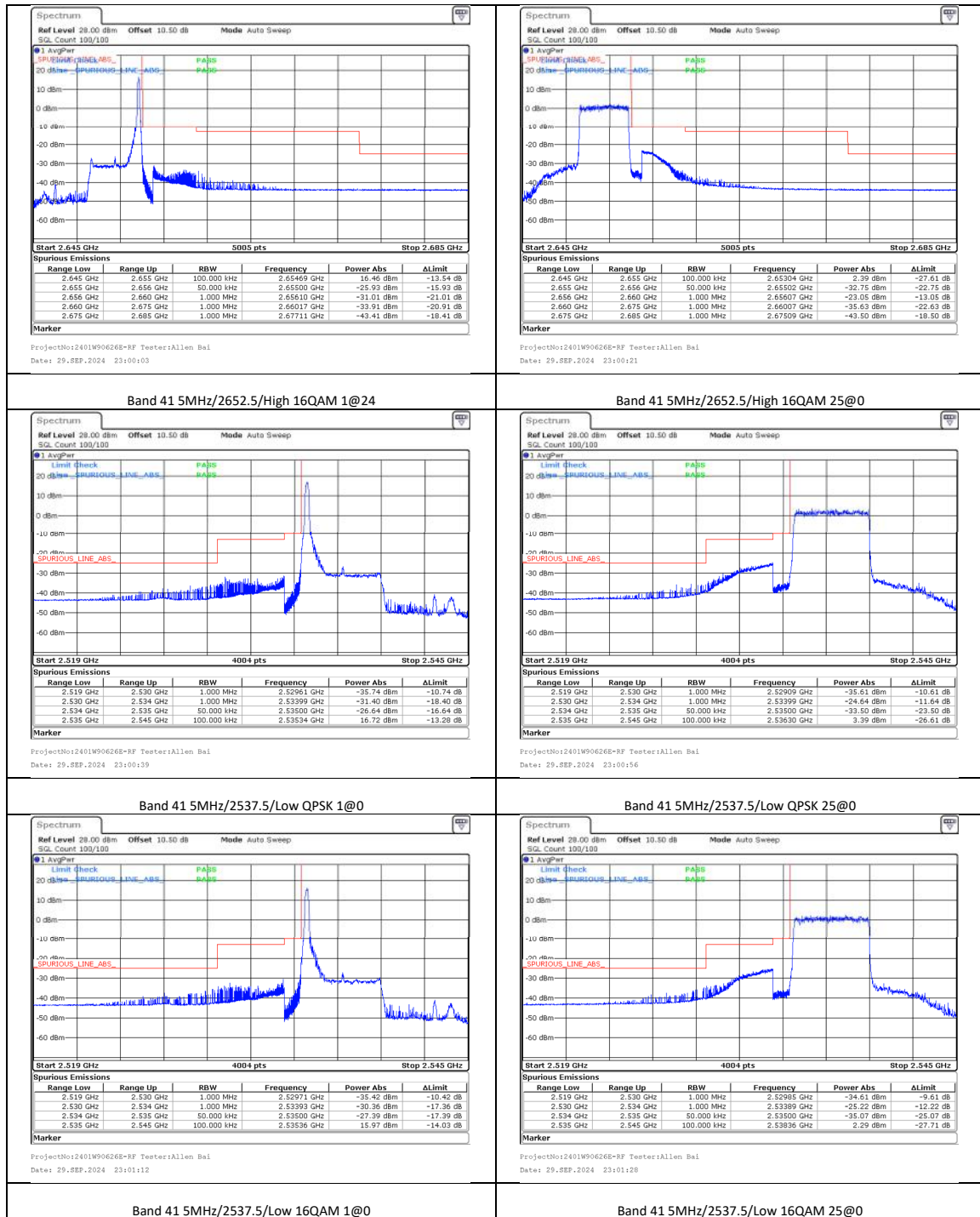
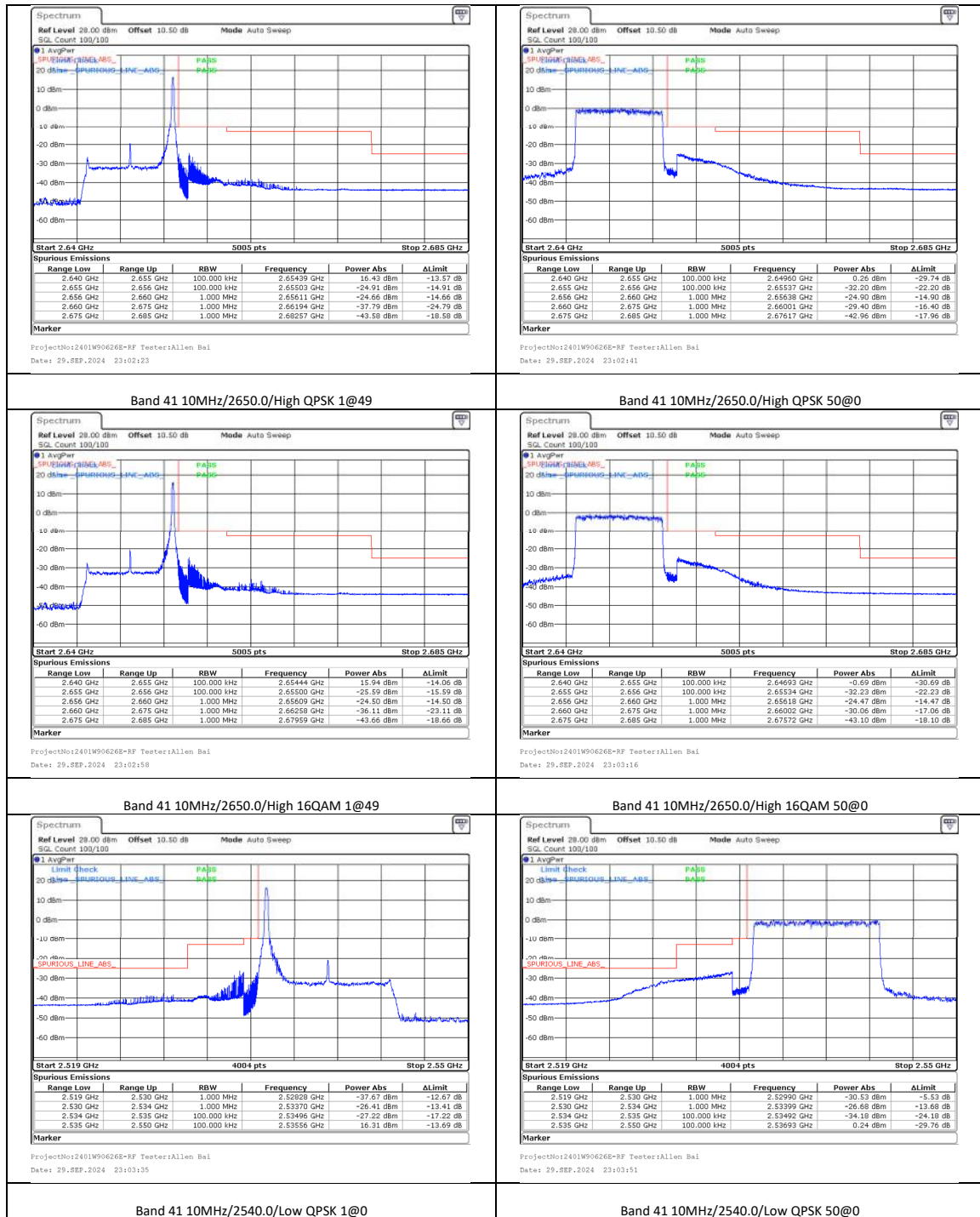
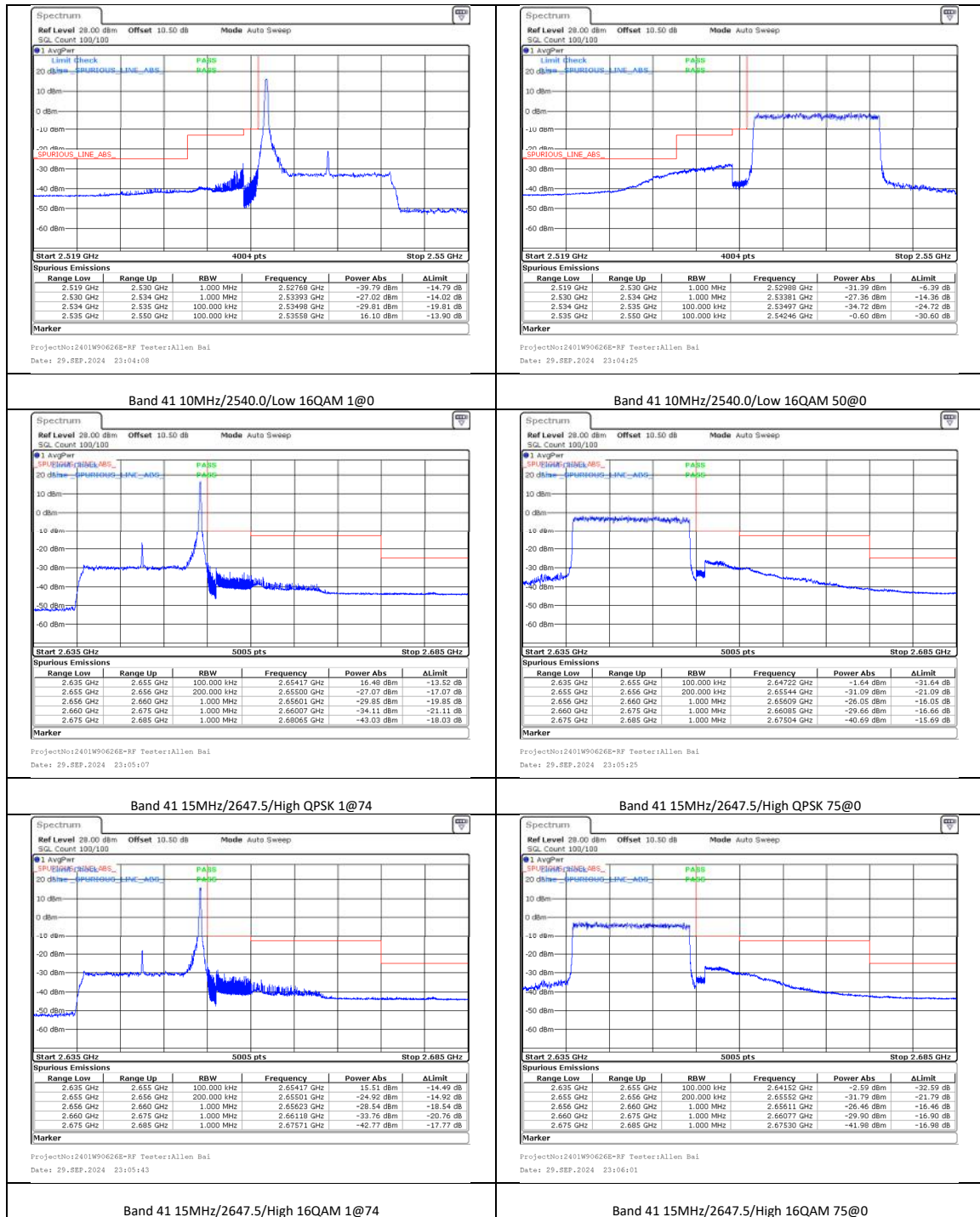


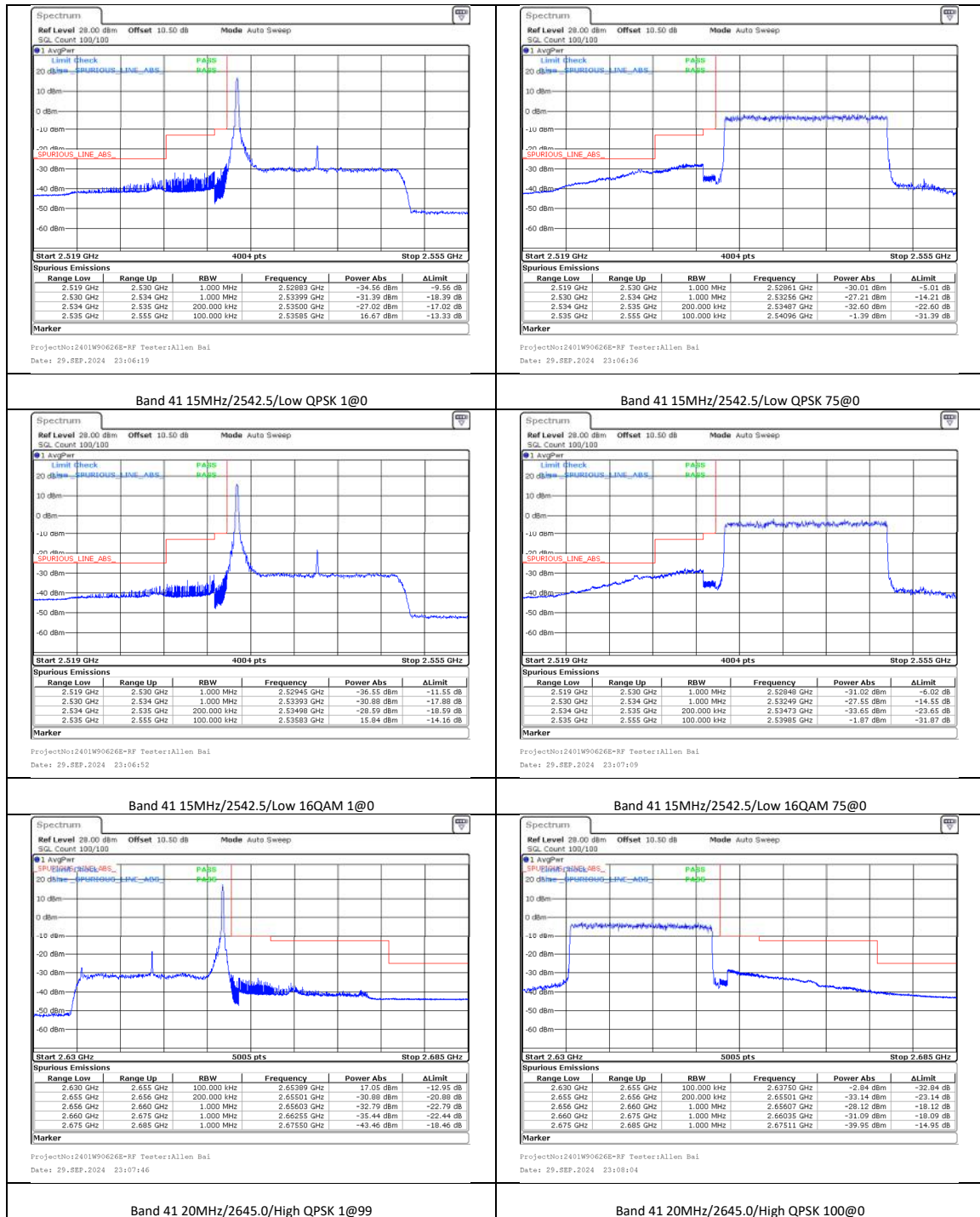


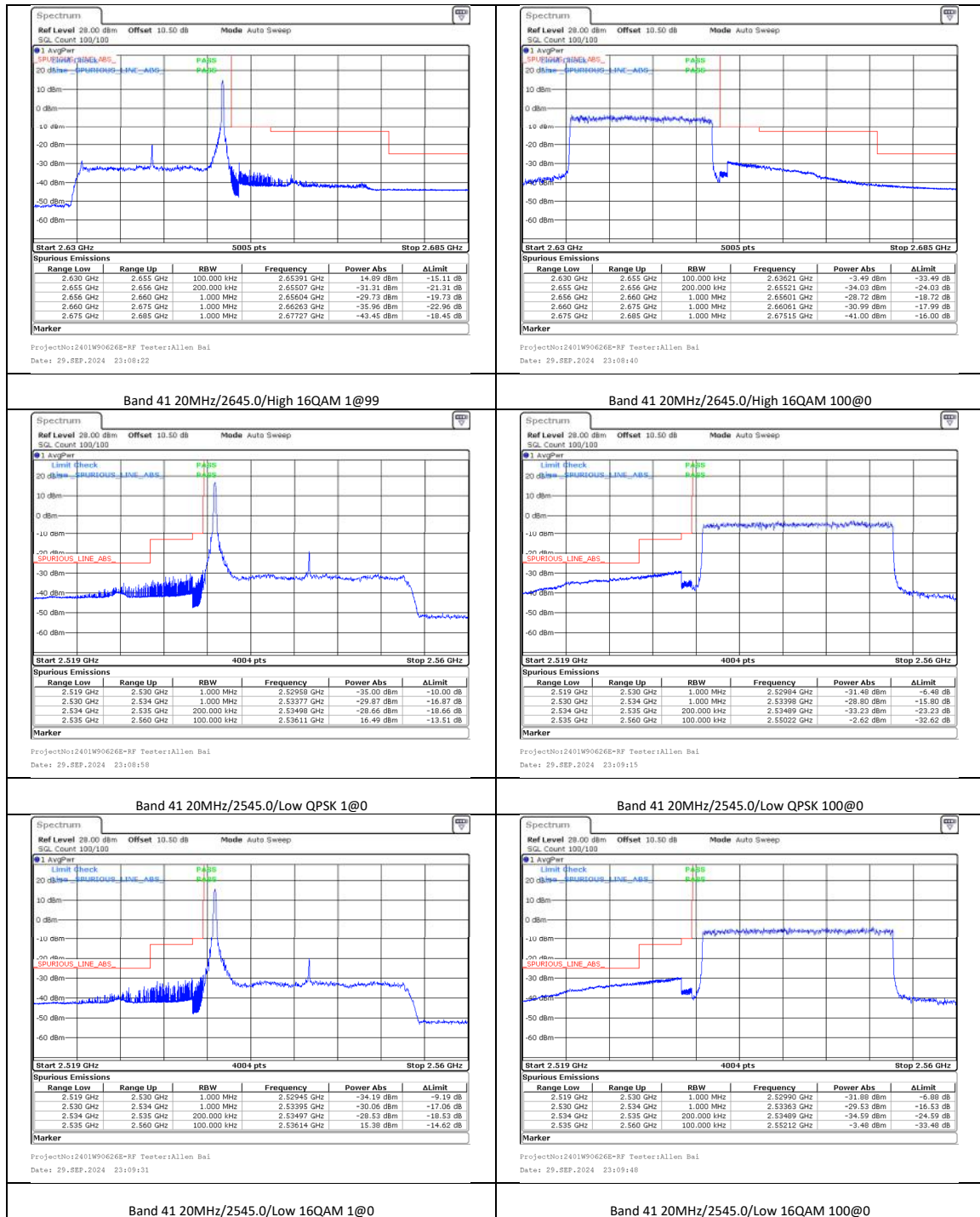


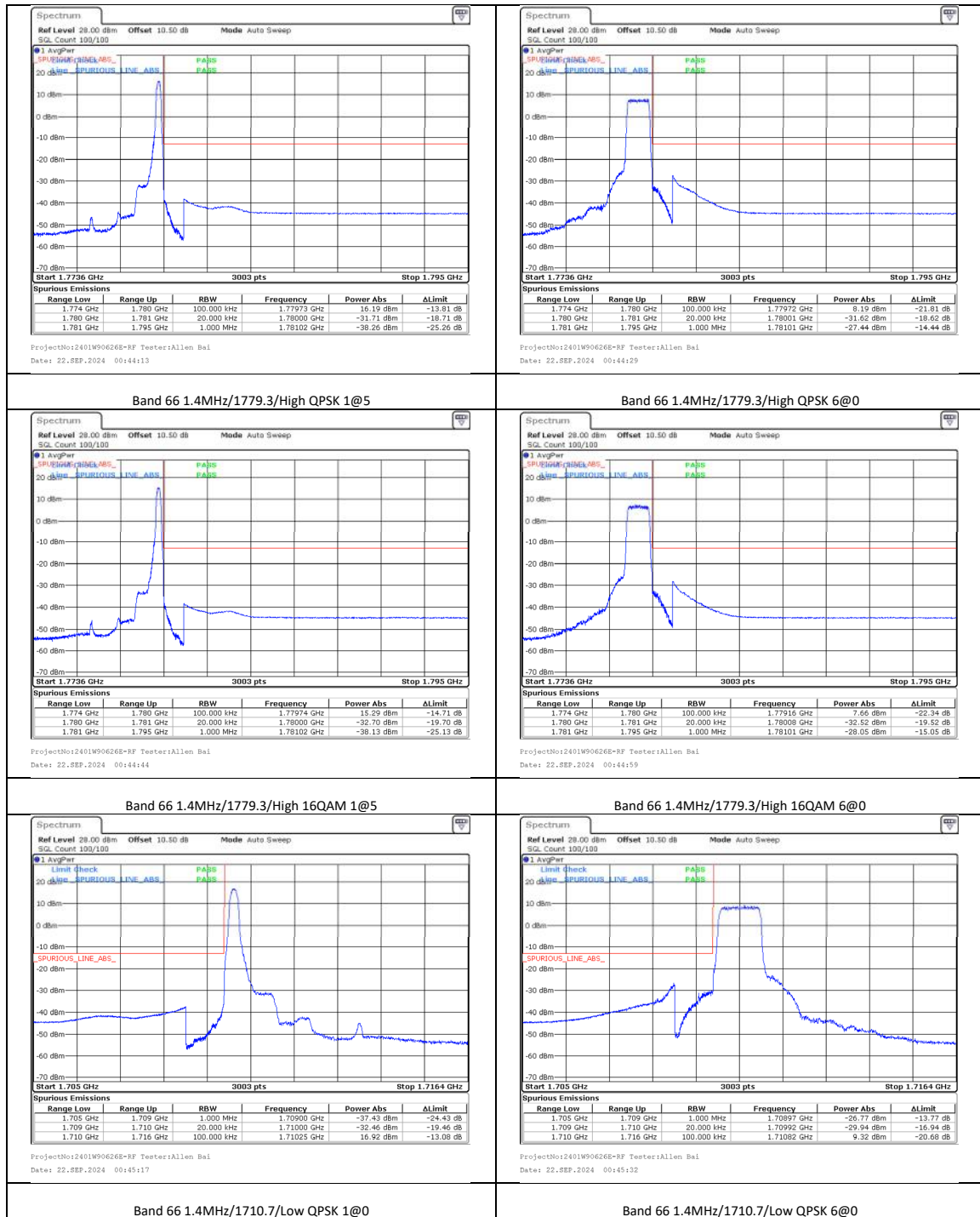


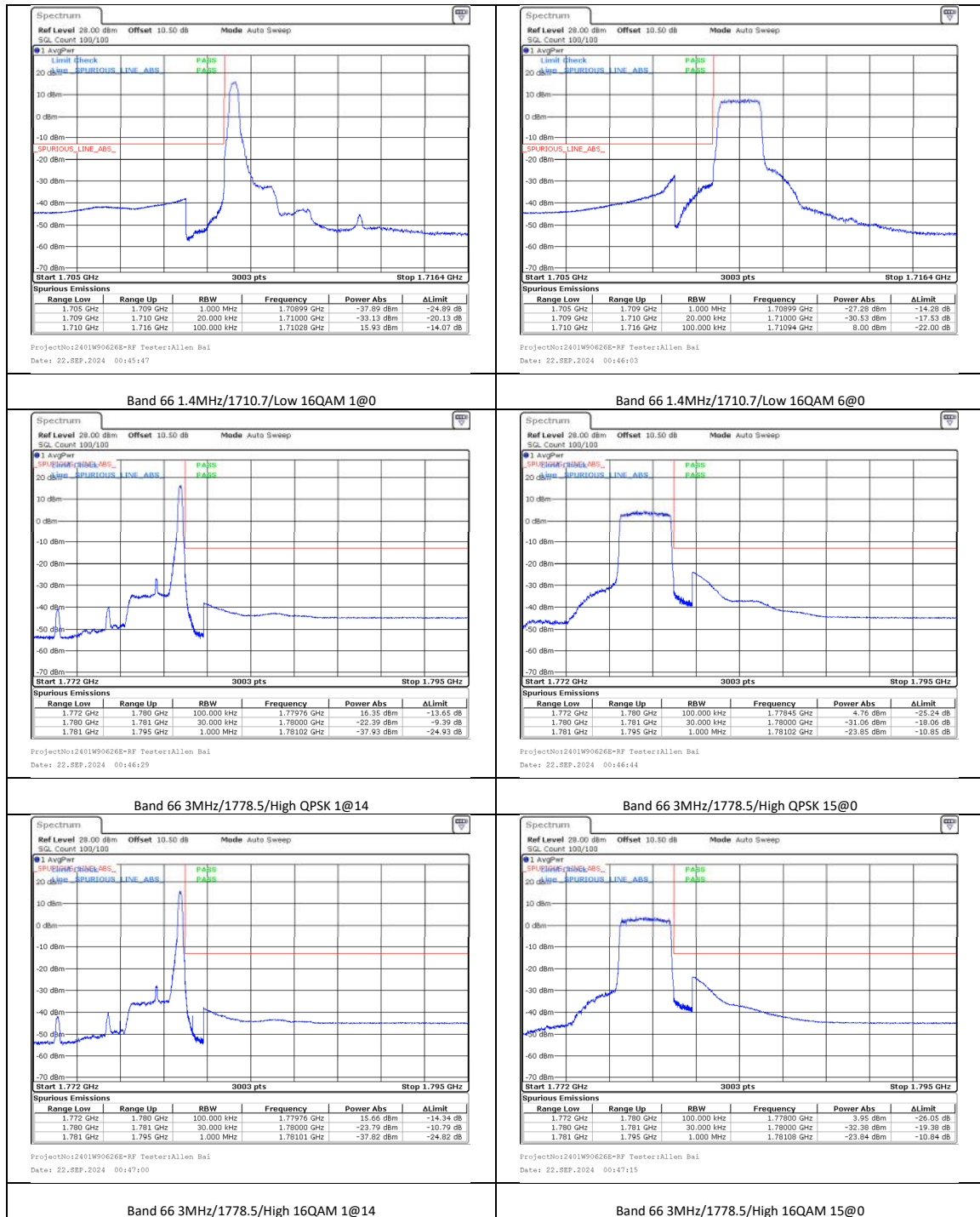


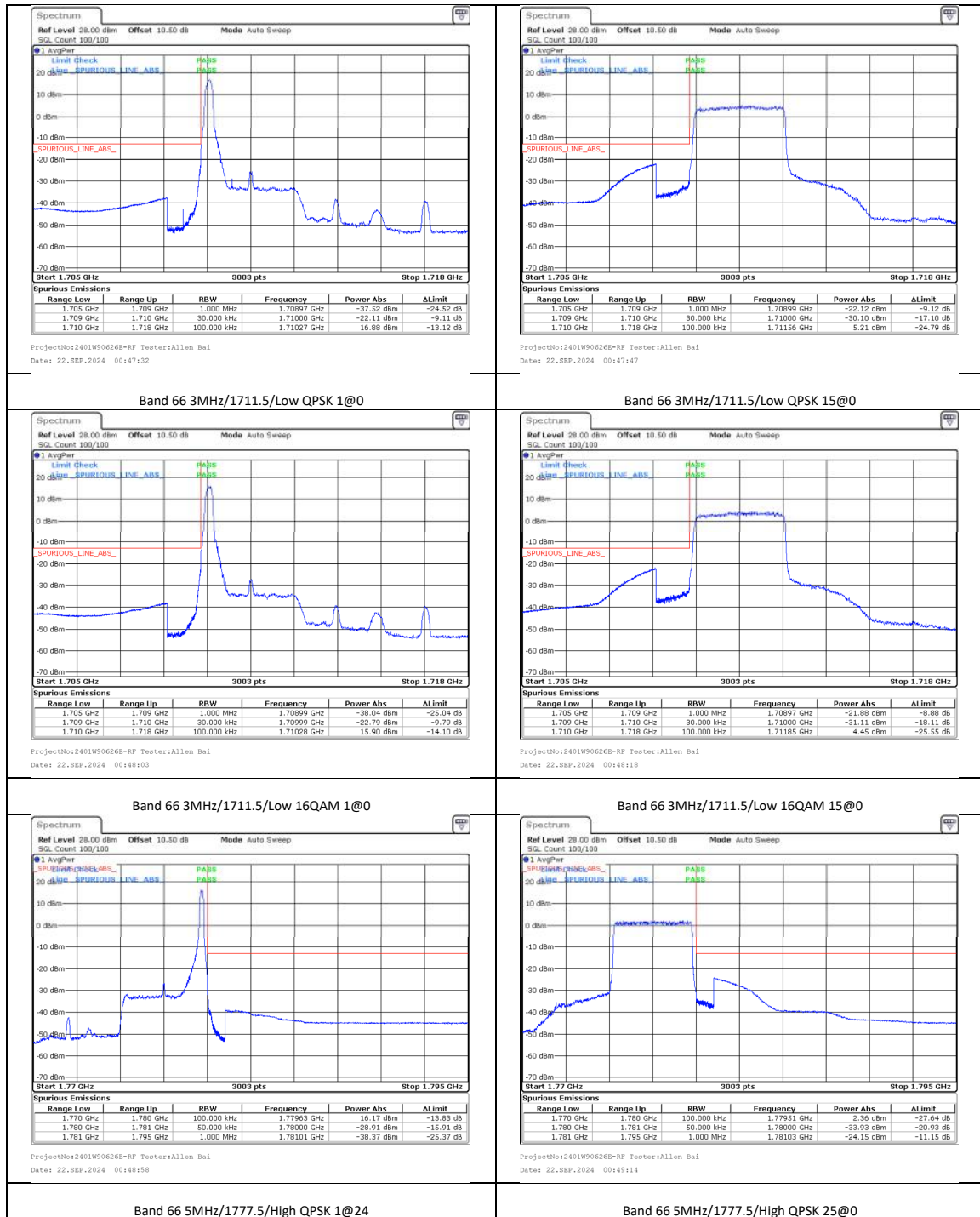


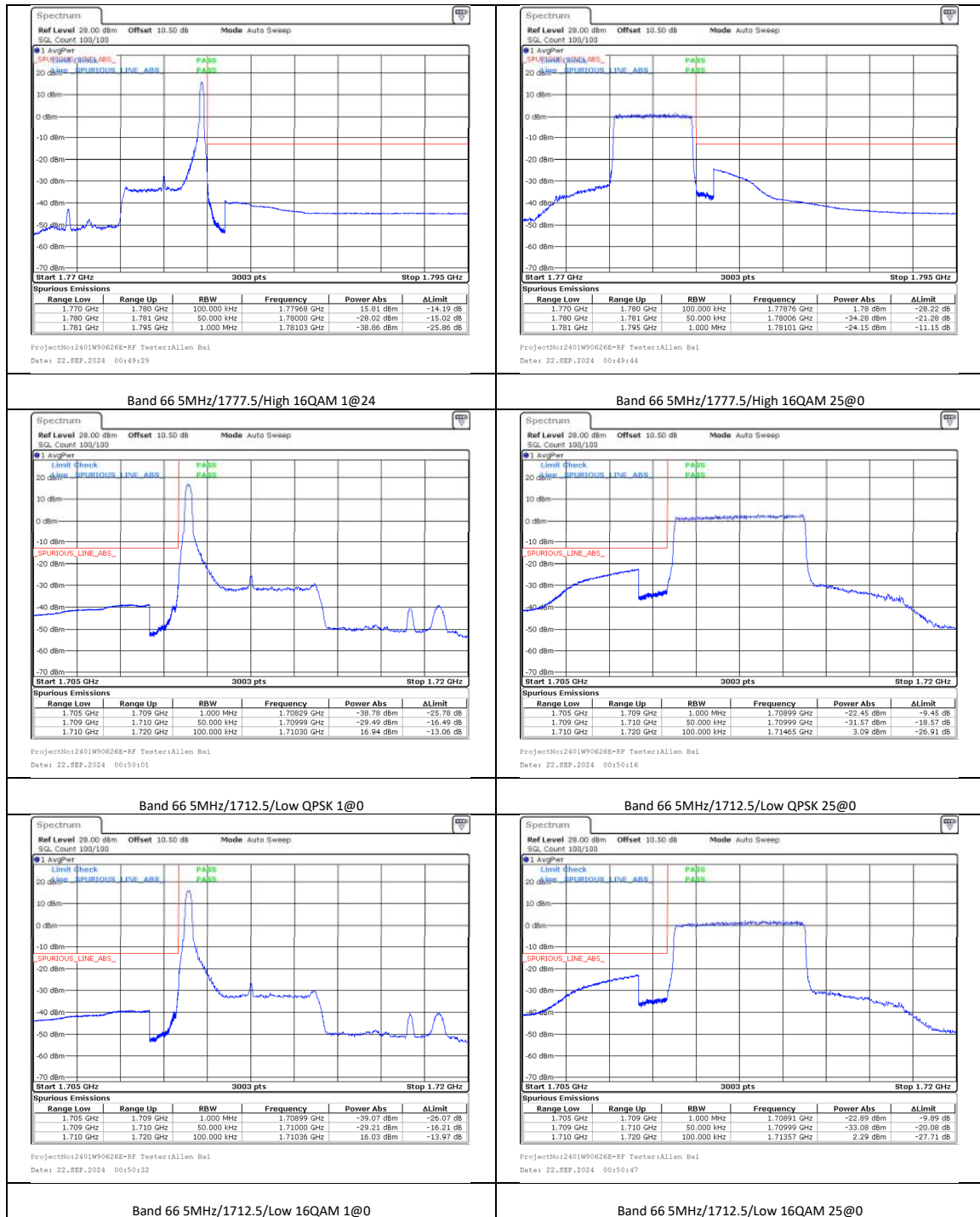


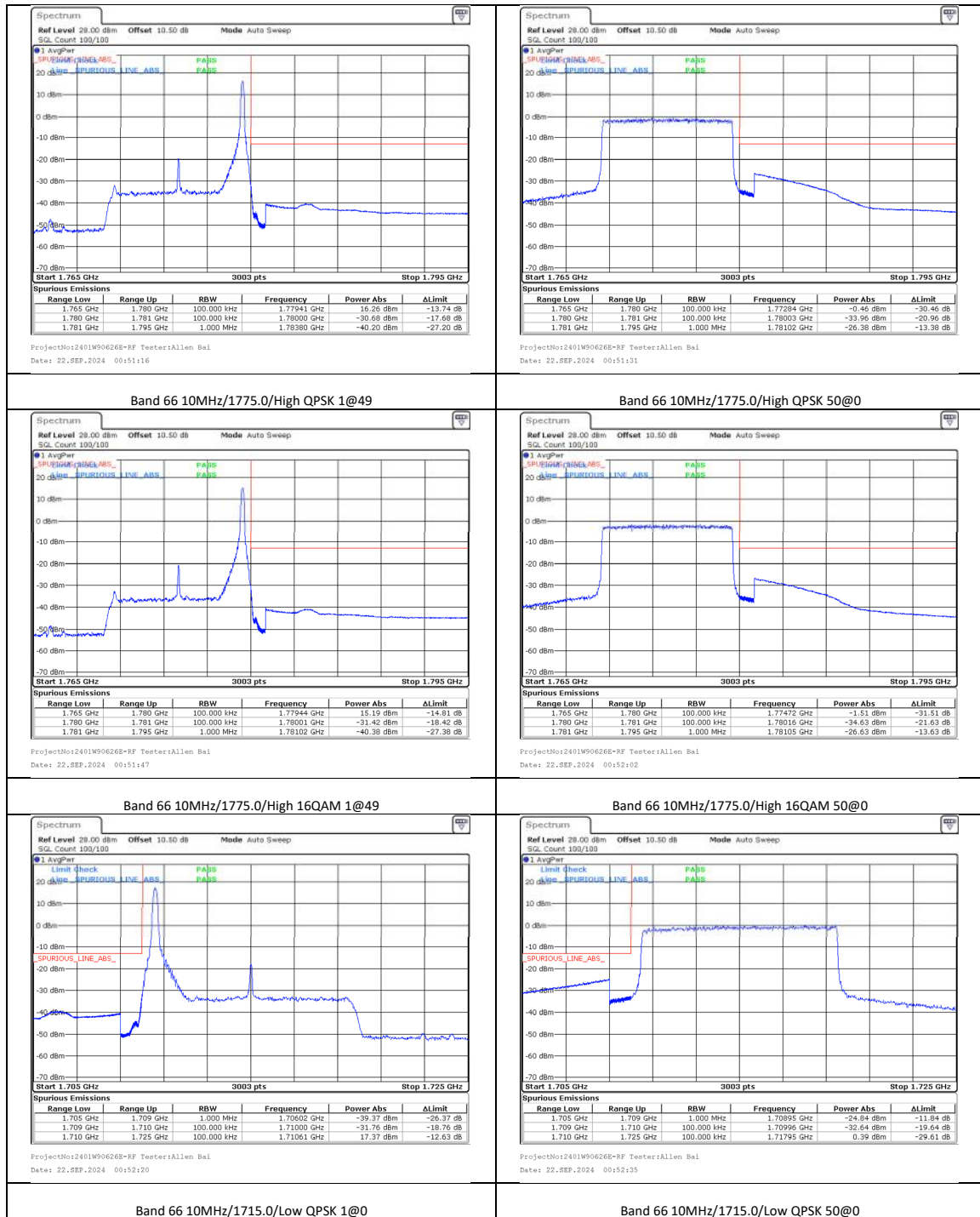


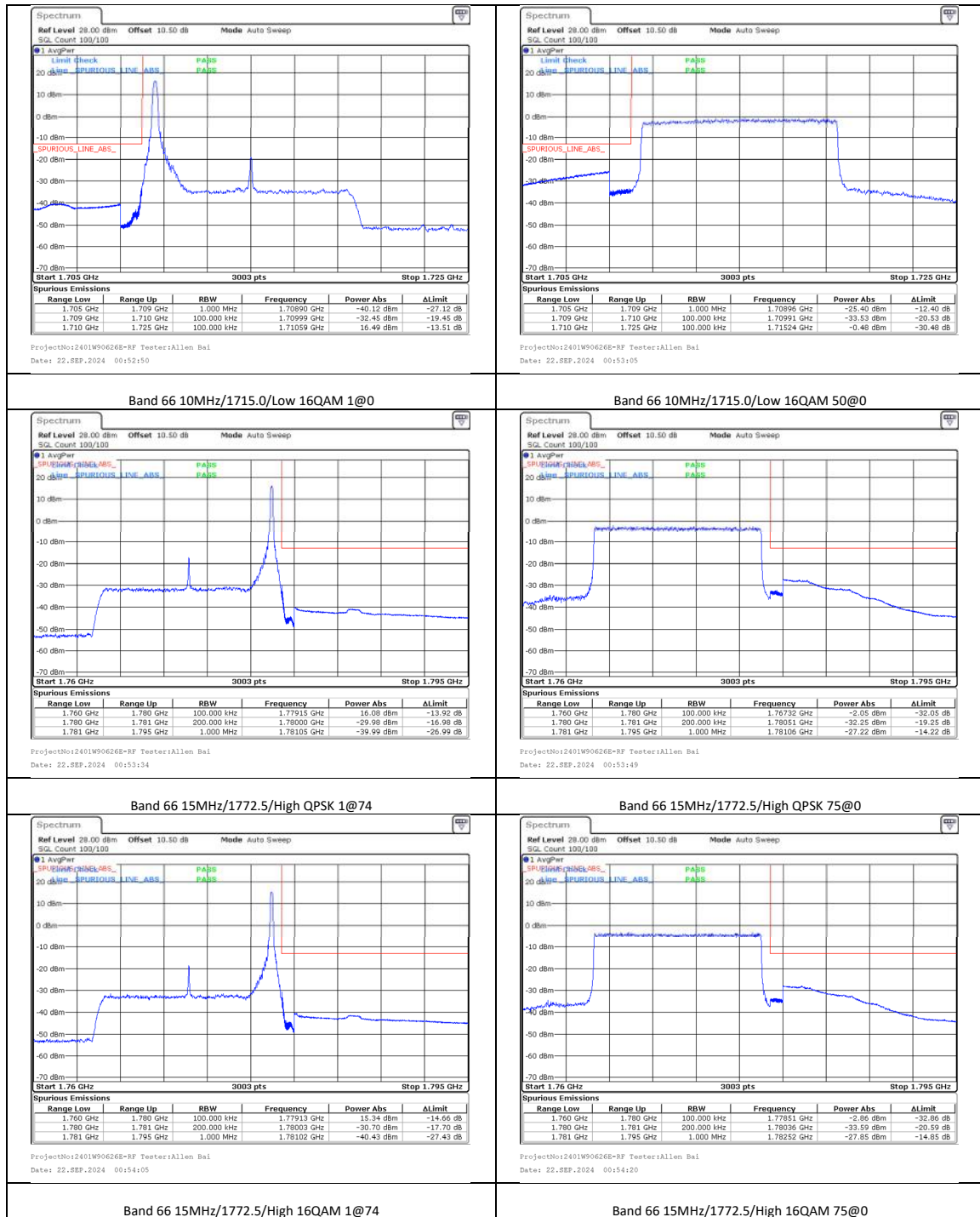


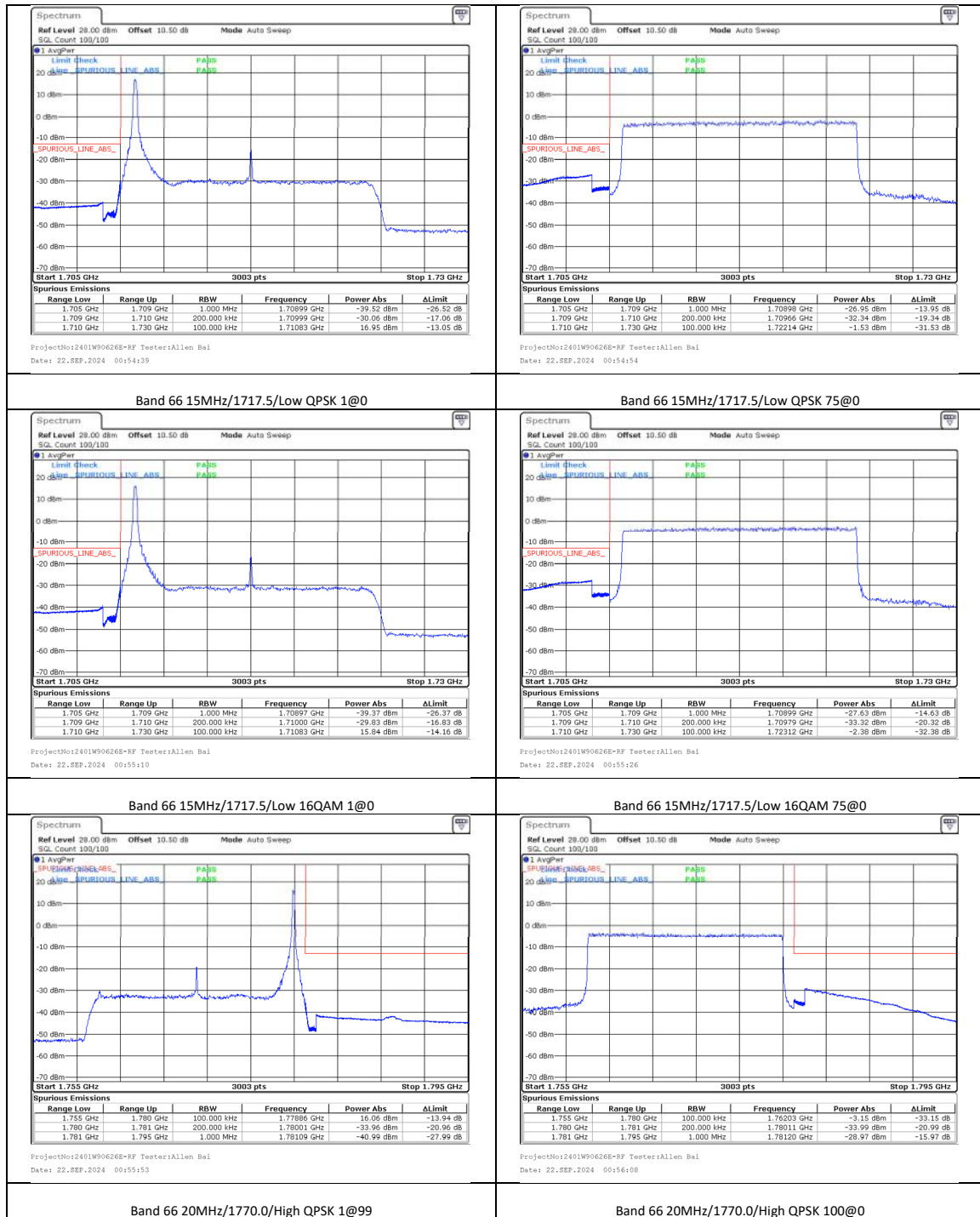


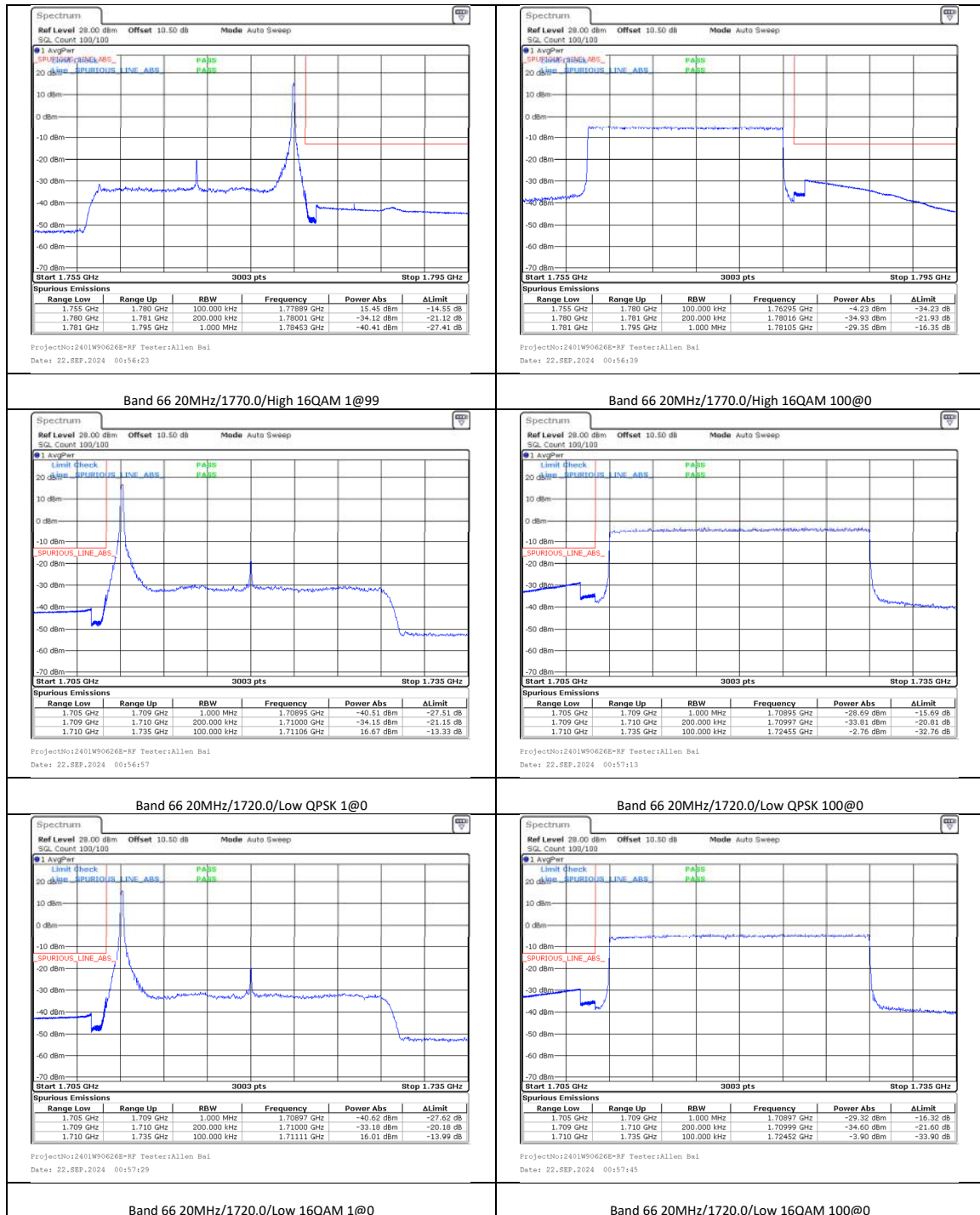












Frequency Stability

Band 2

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	1851.0352	1850.000	1909.9672	1910.000
	-20	3.87	1851.0327	1850.000	1909.9658	1910.000
	-10	3.87	1851.0348	1850.000	1909.9653	1910.000
	0	3.87	1851.0340	1850.000	1909.9681	1910.000
	10	3.87	1851.0326	1850.000	1909.9671	1910.000
	20	3.87	1851.0355	1850.000	1909.9691	1910.000
	30	3.87	1851.0359	1850.000	1909.9665	1910.000
	40	3.87	1851.0318	1850.000	1909.9651	1910.000
	50	3.87	1851.0349	1850.000	1909.9695	1910.000
Frequency Stability vs. Voltage	20	3.42	1851.0301	1850.000	1909.9657	1910.000
	20	4.45	1851.0366	1850.000	1909.9668	1910.000
					Result:	Pass

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	1851.0308	1850.000	1909.9706	1910.000
	-20	3.87	1851.0313	1850.000	1909.9699	1910.000
	-10	3.87	1851.0347	1850.000	1909.9719	1910.000
	0	3.87	1851.0367	1850.000	1909.9715	1910.000
	10	3.87	1851.0334	1850.000	1909.9665	1910.000
	20	3.87	1851.0321	1850.000	1909.9695	1910.000
	30	3.87	1851.0307	1850.000	1909.9700	1910.000
	40	3.87	1851.0315	1850.000	1909.9662	1910.000
	50	3.87	1851.0349	1850.000	1909.9716	1910.000
Frequency Stability vs. Voltage	20	3.42	1851.0325	1850.000	1909.9664	1910.000
	20	4.45	1851.0318	1850.000	1909.9685	1910.000
					Result:	Pass

Band 4

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	1711.0396	1710.000	1754.9659	1755.000
	-20	3.87	1711.0415	1710.000	1754.9648	1755.000
	-10	3.87	1711.0402	1710.000	1754.9708	1755.000
	0	3.87	1711.0417	1710.000	1754.9703	1755.000
	10	3.87	1711.0426	1710.000	1754.9671	1755.000
	20	3.87	1711.0464	1710.000	1754.9692	1755.000
	30	3.87	1711.0453	1710.000	1754.9645	1755.000
	40	3.87	1711.0449	1710.000	1754.9706	1755.000
	50	3.87	1711.0442	1710.000	1754.9702	1755.000
Frequency Stability vs. Voltage	20	3.42	1711.0412	1710.000	1754.9690	1755.000
	20	4.45	1711.0447	1710.000	1754.9697	1755.000
					Result:	Pass

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	1711.0416	1710.000	1754.9649	1755.000
	-20	3.87	1711.0472	1710.000	1754.9647	1755.000
	-10	3.87	1711.0445	1710.000	1754.9691	1755.000
	0	3.87	1711.0424	1710.000	1754.9694	1755.000
	10	3.87	1711.0418	1710.000	1754.9683	1755.000
	20	3.87	1711.0406	1710.000	1754.9664	1755.000
	30	3.87	1711.0407	1710.000	1754.9654	1755.000
	40	3.87	1711.0463	1710.000	1754.9643	1755.000
	50	3.87	1711.0441	1710.000	1754.9668	1755.000
Frequency Stability vs. Voltage	20	3.42	1711.0444	1710.000	1754.9662	1755.000
	20	4.45	1711.0434	1710.000	1754.9646	1755.000
					Result:	Pass

Band 5

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	3.87	6.38	0.008	2.5
	-20	3.87	8.18	0.010	2.5
	-10	3.87	4.28	0.005	2.5
	0	3.87	7.68	0.009	2.5
	10	3.87	5.98	0.007	2.5
	20	3.87	5.58	0.007	2.5
	30	3.87	4.46	0.005	2.5
	40	3.87	2.27	0.003	2.5
	50	3.87	3.81	0.005	2.5
Frequency Stability vs. Voltage	20	3.42	4.36	0.005	2.5
	20	4.45	5.22	0.006	2.5
				Result:	Pass

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	3.87	5.36	0.006	2.5
	-20	3.87	5.77	0.007	2.5
	-10	3.87	2.57	0.003	2.5
	0	3.87	4.14	0.005	2.5
	10	3.87	6.05	0.007	2.5
	20	3.87	7.15	0.009	2.5
	30	3.87	4.37	0.005	2.5
	40	3.87	5.72	0.007	2.5
	50	3.87	7.18	0.009	2.5
Frequency Stability vs. Voltage	20	3.42	6.37	0.008	2.5
	20	4.45	7.18	0.009	2.5
				Result:	Pass

Band 7

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	2501.0375	2500.000	2569.9629	2570.000
	-20	3.87	2501.0352	2500.000	2569.9629	2570.000
	-10	3.87	2501.0323	2500.000	2569.9625	2570.000
	0	3.87	2501.0390	2500.000	2569.9646	2570.000
	10	3.87	2501.0349	2500.000	2569.9651	2570.000
	20	3.87	2501.0341	2500.000	2569.9678	2570.000
	30	3.87	2501.0380	2500.000	2569.9677	2570.000
	40	3.87	2501.0395	2500.000	2569.9697	2570.000
	50	3.87	2501.0380	2500.000	2569.9655	2570.000
Frequency Stability vs. Voltage	20	3.42	2501.0398	2500.000	2569.9690	2570.000
	20	4.45	2501.0383	2500.000	2569.9659	2570.000
					Result:	Pass

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	2501.0393	2500.000	2569.9694	2570.000
	-20	3.87	2501.0352	2500.000	2569.9687	2570.000
	-10	3.87	2501.0383	2500.000	2569.9635	2570.000
	0	3.87	2501.0330	2500.000	2569.9682	2570.000
	10	3.87	2501.0323	2500.000	2569.9667	2570.000
	20	3.87	2501.0369	2500.000	2569.9686	2570.000
	30	3.87	2501.0371	2500.000	2569.9633	2570.000
	40	3.87	2501.0330	2500.000	2569.9685	2570.000
	50	3.87	2501.0368	2500.000	2569.9646	2570.000
Frequency Stability vs. Voltage	20	3.42	2501.0365	2500.000	2569.9675	2570.000
	20	4.45	2501.0371	2500.000	2569.9684	2570.000
					Result:	Pass

Band 12

Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	699.4678	699.000	715.5473	716.000
	-20	3.87	699.4687	699.000	715.5429	716.000
	-10	3.87	699.4644	699.000	715.5472	716.000
	0	3.87	699.4638	699.000	715.5476	716.000
	10	3.87	699.4642	699.000	715.5451	716.000
	20	3.87	699.4662	699.000	715.5489	716.000
	30	3.87	699.4669	699.000	715.5472	716.000
	40	3.87	699.4626	699.000	715.5426	716.000
	50	3.87	699.4677	699.000	715.5443	716.000
Frequency Stability vs. Voltage	20	3.42	699.4636	699.000	715.5437	716.000
	20	4.45	699.4630	699.000	715.5500	716.000
					Result:	Pass

Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	699.4642	699.000	715.5444	716.000
	-20	3.87	699.4686	699.000	715.5454	716.000
	-10	3.87	699.4686	699.000	715.5441	716.000
	0	3.87	699.4675	699.000	715.5480	716.000
	10	3.87	699.4638	699.000	715.5463	716.000
	20	3.87	699.4625	699.000	715.5483	716.000
	30	3.87	699.4630	699.000	715.5455	716.000
	40	3.87	699.4691	699.000	715.5434	716.000
	50	3.87	699.4617	699.000	715.5431	716.000
Frequency Stability vs. Voltage	20	3.42	699.4667	699.000	715.5463	716.000
	20	4.45	699.4620	699.00	715.5460	716.000
					Result:	Pass

Band 13

Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	777.4572	777.000	786.5451	787.000
	-20	3.87	777.4627	777.000	786.5438	787.000
	-10	3.87	777.4619	777.000	786.5402	787.000
	0	3.87	777.4617	777.000	786.5458	787.000
	10	3.87	777.4583	777.000	786.5416	787.000
	20	3.87	777.4604	777.000	786.5395	787.000
	30	3.87	777.4621	777.000	786.5452	787.000
	40	3.87	777.4602	777.000	786.5453	787.000
	50	3.87	777.4618	777.000	786.5456	787.000
Frequency Stability vs. Voltage	20	3.42	777.4584	777.000	786.5460	787.000
	20	4.45	777.4557	777.000	786.5395	787.000
					Result:	Pass

Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	777.4592	777.000	786.5464	787.000
	-20	3.87	777.4555	777.000	786.5463	787.000
	-10	3.87	777.4597	777.000	786.5427	787.000
	0	3.87	777.4595	777.000	786.5470	787.000
	10	3.87	777.4543	777.000	786.5456	787.000
	20	3.87	777.4559	777.000	786.5490	787.000
	30	3.87	777.4615	777.000	786.5478	787.000
	40	3.87	777.4588	777.000	786.5428	787.000
	50	3.87	777.4624	777.000	786.5464	787.000
Frequency Stability vs. Voltage	20	3.42	777.4572	777.000	786.5479	787.000
	20	4.45	777.4583	777.000	786.5489	787.000
					Result:	Pass

Band 17

Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	704.4569	704.000	715.5500	716.000
	-20	3.87	704.4537	704.000	715.5449	716.000
	-10	3.87	704.4565	704.000	715.5486	716.000
	0	3.87	704.4543	704.000	715.5517	716.000
	10	3.87	704.4521	704.000	715.5478	716.000
	20	3.87	704.4538	704.000	715.5521	716.000
	30	3.87	704.4504	704.000	715.5488	716.000
	40	3.87	704.4559	704.000	715.5491	716.000
	50	3.87	704.4510	704.000	715.5469	716.000
Frequency Stability vs. Voltage	20	3.42	704.4535	704.000	715.5450	716.000
	20	4.45	704.4548	704.000	715.5495	716.000
					Result:	Pass

Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	704.4566	704.000	715.5464	716.000
	-20	3.87	704.4516	704.000	715.5516	716.000
	-10	3.87	704.4529	704.000	715.5474	716.000
	0	3.87	704.4542	704.000	715.5482	716.000
	10	3.87	704.4532	704.000	715.5465	716.000
	20	3.87	704.4538	704.000	715.5483	716.000
	30	3.87	704.4556	704.000	715.5454	716.000
	40	3.87	704.4544	704.000	715.5476	716.000
	50	3.87	704.4508	704.000	715.5526	716.000
Frequency Stability vs. Voltage	20	3.42	704.4556	704.000	715.5468	716.000
	20	4.45	704.4539	704.000	715.5506	716.000
					Result:	Pass

Band 25

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	1851.0387	1850.000	1914.9633	1915.000
	-20	3.87	1851.0362	1850.000	1914.9648	1915.000
	-10	3.87	1851.0398	1850.000	1914.9644	1915.000
	0	3.87	1851.0344	1850.000	1914.9645	1915.000
	10	3.87	1851.0362	1850.000	1914.9637	1915.000
	20	3.87	1851.0347	1850.000	1914.9634	1915.000
	30	3.87	1851.0351	1850.000	1914.9684	1915.000
	40	3.87	1851.0332	1850.000	1914.9655	1915.000
	50	3.87	1851.0368	1850.000	1914.9687	1915.000
Frequency Stability vs. Voltage	20	3.42	1851.0342	1850.000	1914.9663	1915.000
	20	4.45	1851.0372	1850.000	1914.9656	1915.000
					Result:	Pass

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	1851.0400	1850.000	1914.9670	1915.000
	-20	3.87	1851.0401	1850.000	1914.9666	1915.000
	-10	3.87	1851.0407	1850.000	1914.9627	1915.000
	0	3.87	1851.0364	1850.000	1914.9608	1915.000
	10	3.87	1851.0377	1850.000	1914.9621	1915.000
	20	3.87	1851.0365	1850.000	1914.9614	1915.000
	30	3.87	1851.0386	1850.000	1914.9646	1915.000
	40	3.87	1851.0378	1850.000	1914.9654	1915.000
	50	3.87	1851.0393	1850.000	1914.9618	1915.000
Frequency Stability vs. Voltage	20	3.42	1851.0384	1850.000	1914.9664	1915.000
	20	4.45	1851.0373	1850.000	1914.9653	1915.000
					Result:	Pass

Band 38

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	2571.0386	2570.000	2619.9622	2620.000
	-20	3.87	2571.0345	2570.000	2619.9631	2620.000
	-10	3.87	2571.0410	2570.000	2619.9666	2620.000
	0	3.87	2571.0414	2570.000	2619.9661	2620.000
	10	3.87	2571.0371	2570.000	2619.9628	2620.000
	20	3.87	2571.0386	2570.000	2619.9645	2620.000
	30	3.87	2571.0392	2570.000	2619.9599	2620.000
	40	3.87	2571.0393	2570.000	2619.9636	2620.000
	50	3.87	2571.0373	2570.000	2619.9654	2620.000
Frequency Stability vs. Voltage	20	3.42	2571.0397	2570.000	2619.9674	2620.000
	20	4.45	2571.0370	2570.000	2619.9610	2620.000
					Result:	Pass

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	2571.0410	2570.000	2619.9632	2620.000
	-20	3.87	2571.0385	2570.000	2619.9645	2620.000
	-10	3.87	2571.0402	2570.000	2619.9605	2620.000
	0	3.87	2571.0398	2570.000	2619.9643	2620.000
	10	3.87	2571.0368	2570.000	2619.9631	2620.000
	20	3.87	2571.0364	2570.000	2619.9622	2620.000
	30	3.87	2571.0342	2570.000	2619.9647	2620.000
	40	3.87	2571.0386	2570.000	2619.9658	2620.000
	50	3.87	2571.0380	2570.000	2619.9650	2620.000
Frequency Stability vs. Voltage	20	3.42	2571.0354	2570.000	2619.9624	2620.000
	20	4.45	2571.0417	2570.000	2619.9641	2620.000
					Result:	Pass

Band 41

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	2535.0643	2535.000	2654.9387	2655.000
	-20	3.87	2535.0639	2535.000	2654.9397	2655.000
	-10	3.87	2535.0642	2535.000	2654.9408	2655.000
	0	3.87	2535.0634	2535.000	2654.9366	2655.000
	10	3.87	2535.0627	2535.000	2654.9373	2655.000
	20	3.87	2535.0639	2535.000	2654.9345	2655.000
	30	3.87	2535.0624	2535.000	2654.9353	2655.000
	40	3.87	2535.0668	2535.000	2654.9387	2655.000
	50	3.87	2535.0644	2535.000	2654.9404	2655.000
Frequency Stability vs. Voltage	20	3.42	2535.0659	2535.000	2654.9405	2655.000
	20	4.45	2535.0670	2535.000	2654.9375	2655.000
					Result:	Pass

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	2535.0658	2535.000	2654.9379	2655.000
	-20	3.87	2535.0674	2535.000	2654.9419	2655.000
	-10	3.87	2535.0610	2535.000	2654.9344	2655.000
	0	3.87	2535.0652	2535.000	2654.9350	2655.000
	10	3.87	2535.0613	2535.000	2654.9384	2655.000
	20	3.87	2535.0605	2535.000	2654.9378	2655.000
	30	3.87	2535.0602	2535.000	2654.9389	2655.000
	40	3.87	2535.0599	2535.000	2654.9421	2655.000
	50	3.87	2535.0610	2535.000	2654.9403	2655.000
Frequency Stability vs. Voltage	20	3.42	2535.0630	2535.000	2654.9373	2655.000
	20	4.45	2535.0602	2535.000	2654.9384	2655.000
					Result:	Pass

Band 66

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	1711.0588	1710.00	1779.9454	1780.00
	-20	3.87	1711.0650	1710.00	1779.9485	1780.00
	-10	3.87	1711.0659	1710.00	1779.9490	1780.00
	0	3.87	1711.0624	1710.00	1779.9488	1780.00
	10	3.87	1711.0612	1710.00	1779.9481	1780.00
	20	3.87	1711.0645	1710.00	1779.9484	1780.00
	30	3.87	1711.0658	1710.00	1779.9504	1780.00
	40	3.87	1711.0589	1710.00	1779.9494	1780.00
	50	3.87	1711.0653	1710.00	1779.9473	1780.00
Frequency Stability vs. Voltage	20	3.42	1711.0594	1710.00	1779.9469	1780.00
	20	4.45	1711.0644	1710.00	1779.9461	1780.00
					Result:	Pass

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	1711.0620	1710.00	1779.9471	1780.00
	-20	3.87	1711.0623	1710.00	1779.9526	1780.00
	-10	3.87	1711.0633	1710.00	1779.9528	1780.00
	0	3.87	1711.0625	1710.00	1779.9520	1780.00
	10	3.87	1711.0608	1710.00	1779.9483	1780.00
	20	3.87	1711.0602	1710.00	1779.9471	1780.00
	30	3.87	1711.0629	1710.00	1779.9460	1780.00
	40	3.87	1711.0654	1710.00	1779.9455	1780.00
	50	3.87	1711.0611	1710.00	1779.9487	1780.00
Frequency Stability vs. Voltage	20	3.42	1711.0645	1710.00	1779.9457	1780.00
	20	4.45	1711.0589	1710.00	1779.9465	1780.00
					Result:	Pass