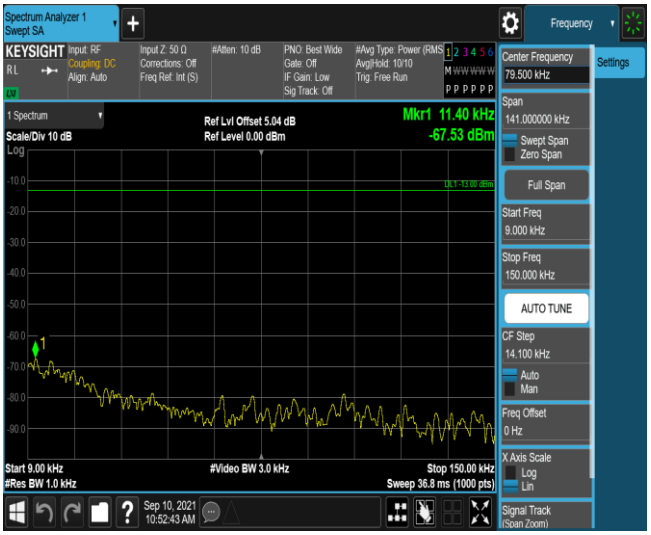
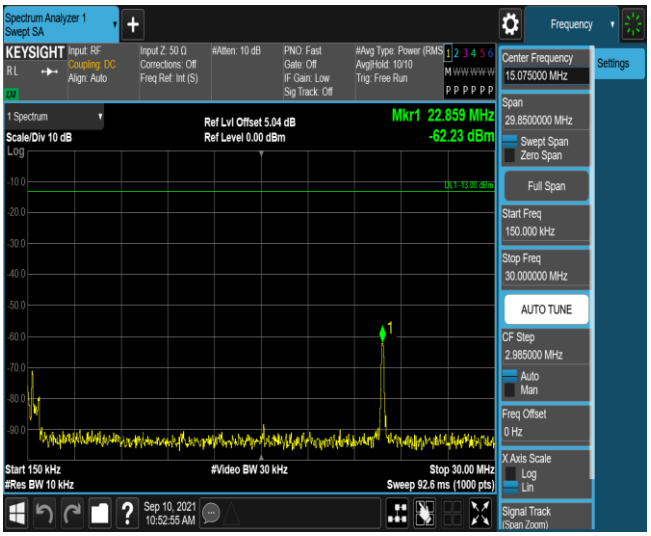
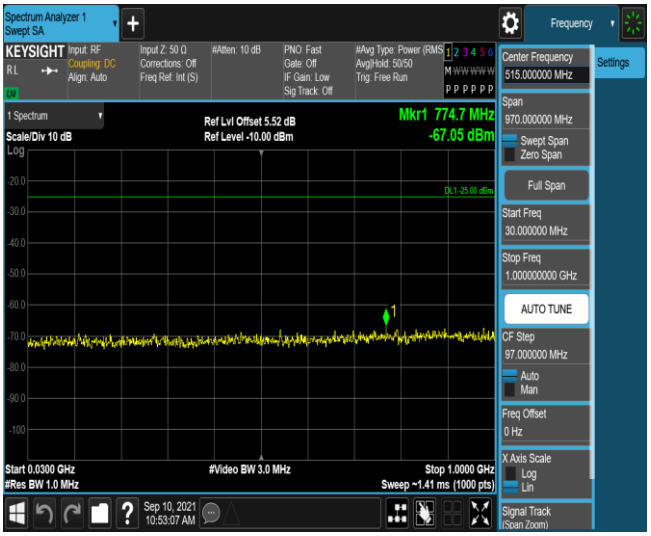


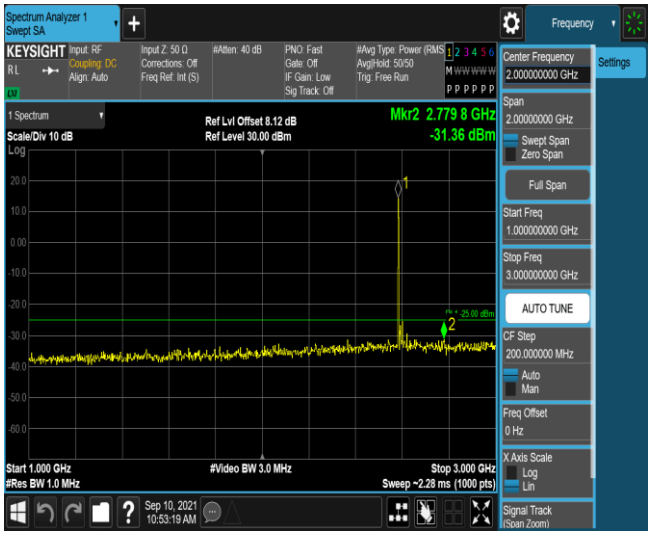
Band41-20MHz-16QAM-40620-1RB#0-Range1:0.009~0.15MHz



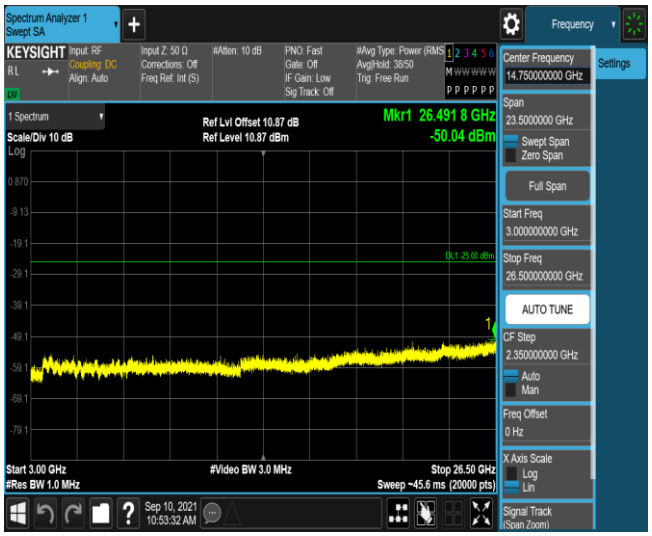
Band41-20MHz-16QAM-40620-1RB#0-Range2:0.15~30MHz



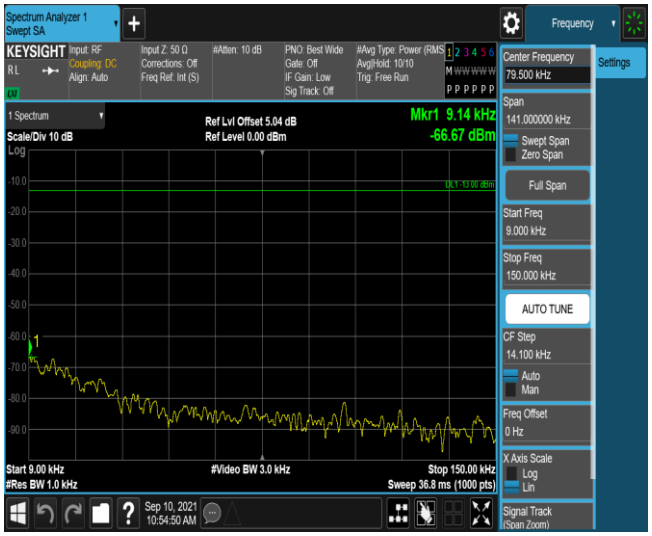
Band41-20MHz-16QAM-40620-1RB#0-Range3:30~1000MHz



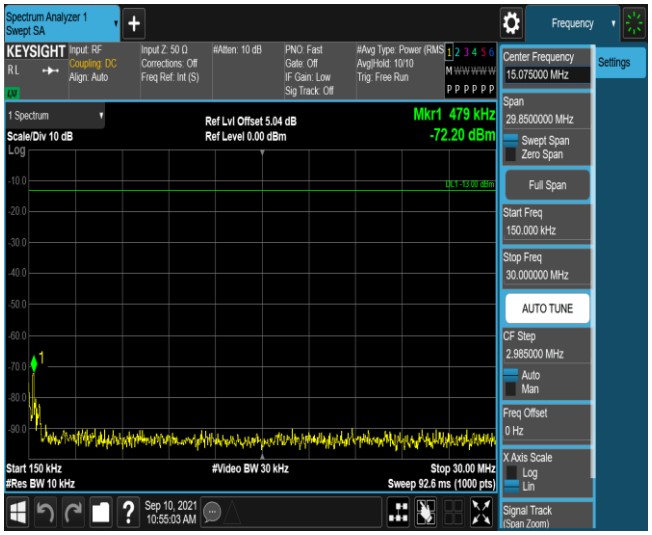
Band41-20MHz-16QAM-40620-1RB#0-Range4:1000~3000MHz



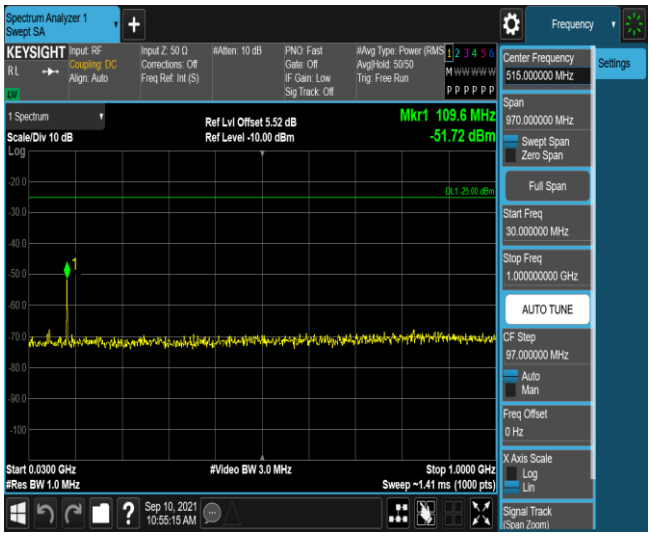
Band41-20MHz-16QAM-40620-1RB#0-Range5:3000~26500MHz



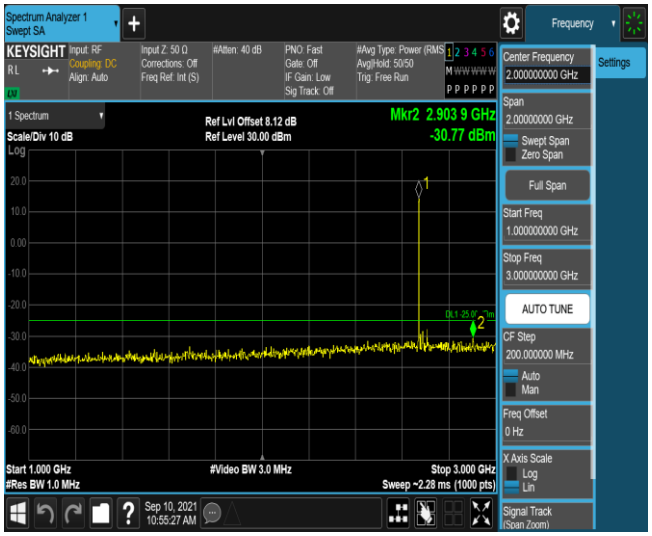
Band41-20MHz-16QAM-41490-1RB#0-Range1:0.009~0.15MHz



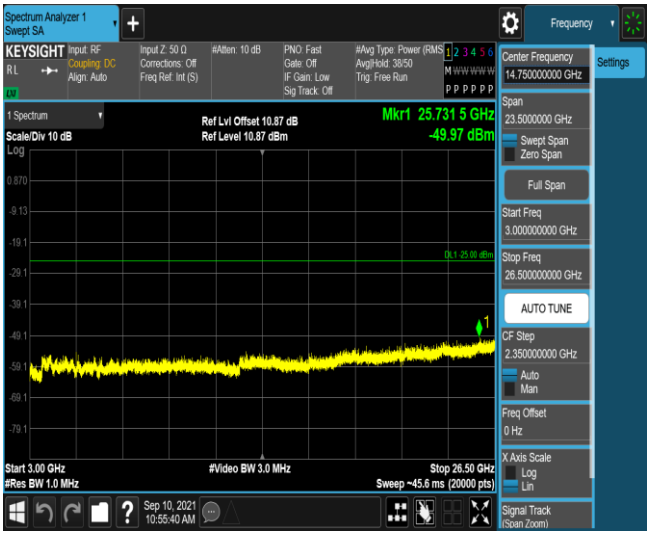
Band41-20MHz-16QAM-41490-1RB#0-Range2:0.15~30MHz



Band41-20MHz-16QAM-41490-1RB#0-Range3:30~1000MHz



Band41-20MHz-16QAM-41490-1RB#0-Range4:1000~3000MHz



Band41-20MHz-16QAM-41490-1RB#0-Range5:3000~26500MHz

Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	VL	NT	-26.31	-0.010530	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	VN	NT	22.80	0.009125	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	VH	NT	25.71	0.010290	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	VL	NT	-26.48	-0.010212	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	VN	NT	19.83	0.007648	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	VH	NT	-28.07	-0.010825	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	VL	NT	-22.69	-0.008443	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	VN	NT	-13.96	-0.005194	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	VH	NT	24.69	0.009187	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	VL	NT	22.53	0.009017	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	VN	NT	-11.16	-0.004467	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	VH	NT	25.45	0.010186	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	VL	NT	-24.35	-0.009391	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	VN	NT	23.02	0.008878	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	VH	NT	-27.11	-0.010455	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	VL	NT	-33.80	-0.012577	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	VN	NT	-23.42	-0.008714	±2.5	PASS

Band41	5MHz	16QAM	41565	25RB#0	VH	NT	10.41	0.003873	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	VL	NT	-25.71	-0.010280	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	VN	NT	-30.28	-0.012107	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	VH	NT	-33.16	-0.013259	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	VL	NT	-25.48	-0.009826	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	VN	NT	31.73	0.012237	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	VH	NT	-20.86	-0.008045	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	VL	NT	41.63	0.015505	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	VN	NT	-26.11	-0.009724	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	VH	NT	32.03	0.011929	±2.5	PASS
Band41	10MHz	16QAM	39700	50RB#0	VL	NT	21.51	0.008601	±2.5	PASS
Band41	10MHz	16QAM	39700	50RB#0	VN	NT	20.28	0.008109	±2.5	PASS
Band41	10MHz	16QAM	39700	50RB#0	VH	NT	21.41	0.008561	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	VL	NT	27.02	0.010420	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	VN	NT	26.39	0.010177	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	VH	NT	-28.10	-0.010837	±2.5	PASS
Band41	10MHz	16QAM	41540	50RB#0	VL	NT	-31.50	-0.011732	±2.5	PASS
Band41	10MHz	16QAM	41540	50RB#0	VN	NT	10.50	0.003911	±2.5	PASS
Band41	10MHz	16QAM	41540	50RB#0	VH	NT	28.34	0.010555	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	VL	NT	15.74	0.006287	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	VN	NT	10.19	0.004070	±2.5	PASS

Band41	15MHz	QPSK	39725	75RB#0	VH	NT	-28.97	-0.011572	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	VL	NT	15.42	0.005947	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	VN	NT	12.77	0.004925	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	VH	NT	-29.00	-0.011184	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	VL	NT	26.52	0.009886	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	VN	NT	25.78	0.009610	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	VH	NT	-31.01	-0.011560	±2.5	PASS
Band41	15MHz	16QAM	39725	75RB#0	VL	NT	-29.88	-0.011935	±2.5	PASS
Band41	15MHz	16QAM	39725	75RB#0	VN	NT	-12.73	-0.005085	±2.5	PASS
Band41	15MHz	16QAM	39725	75RB#0	VH	NT	-24.63	-0.009838	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	VL	NT	-10.33	-0.003984	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	VN	NT	8.50	0.003278	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	VH	NT	-22.29	-0.008596	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	VL	NT	9.21	0.003433	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	VN	NT	-23.33	-0.008697	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	VH	NT	-13.96	-0.005204	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VL	NT	25.82	0.010303	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VN	NT	28.91	0.011536	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VH	NT	-28.88	-0.011524	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-26.56	-0.010243	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	22.26	0.008585	±2.5	PASS

Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-27.42	-0.010575	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VL	NT	29.48	0.011000	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VN	NT	-22.47	-0.008384	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VH	NT	-30.36	-0.011328	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VL	NT	18.18	0.007255	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VN	NT	-24.29	-0.009693	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VH	NT	32.29	0.012885	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VL	NT	31.87	0.012291	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VN	NT	22.79	0.008789	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VH	NT	-22.87	-0.008820	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VL	NT	-13.35	-0.004981	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VN	NT	-13.96	-0.005209	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VH	NT	11.09	0.004138	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	NV	-30	-26.54	-0.010622	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	-20	15.82	0.006332	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	0	30.74	0.012303	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	10	-23.16	-0.009270	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	20	-20.20	-0.008085	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	-30	24.89	0.009599	±2.5	PASS

Band41	5MHz	QPSK	40620	25RB#0	NV	-20	-27.31	-0.010532	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	0	-28.14	-0.010852	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	10	-23.39	-0.009020	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	20	-27.62	-0.010652	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	-30	-26.02	-0.009682	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	-20	-30.78	-0.011453	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	0	13.19	0.004908	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	10	-8.61	-0.003204	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	20	-32.70	-0.012167	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	-30	-27.78	-0.011119	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	-20	-22.65	-0.009065	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	0	-29.15	-0.011667	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	10	-22.87	-0.009153	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	20	-29.25	-0.011707	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	-30	23.95	0.009236	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	-20	-24.52	-0.009456	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	0	28.38	0.010945	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	10	-22.39	-0.008635	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	20	-31.40	-0.012110	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	-30	-21.56	-0.008022	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	-20	-12.97	-0.004826	±2.5	PASS

Band41	5MHz	16QAM	41565	25RB#0	NV	0	-25.94	-0.009652	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	10	-21.43	-0.007974	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	20	-30.04	-0.011178	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	-30	20.59	0.008233	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	-20	-23.67	-0.009464	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	0	-31.39	-0.012551	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	10	-23.86	-0.009540	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	20	-29.03	-0.011607	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	-30	-28.28	-0.010906	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	-20	23.70	0.009140	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	0	-20.53	-0.007917	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	10	-13.02	-0.005021	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	20	21.09	0.008133	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	-30	-41.34	-0.015397	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	-20	32.66	0.012164	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	0	29.58	0.011017	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	10	30.78	0.011464	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	20	20.44	0.007613	±2.5	PASS
Band41	10MHz	16QAM	39700	50RB#0	NV	-30	18.31	0.007321	±2.5	PASS
Band41	10MHz	16QAM	39700	50RB#0	NV	-20	-34.76	-0.013898	±2.5	PASS
Band41	10MHz	16QAM	39700	50RB#0	NV	0	-25.56	-0.010220	±2.5	PASS

Band41	10MHz	16QAM	39700	50RB#0	NV	10	-22.62	-0.009044	±2.5	PASS
Band41	10MHz	16QAM	39700	50RB#0	NV	20	28.20	0.011275	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	-30	38.25	0.014751	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	-20	-15.86	-0.006116	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	0	35.33	0.013625	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	10	27.12	0.010459	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	20	-28.11	-0.010841	±2.5	PASS
Band41	10MHz	16QAM	41540	50RB#0	NV	-30	-22.00	-0.008194	±2.5	PASS
Band41	10MHz	16QAM	41540	50RB#0	NV	-20	-25.92	-0.009654	±2.5	PASS
Band41	10MHz	16QAM	41540	50RB#0	NV	0	-29.97	-0.011162	±2.5	PASS
Band41	10MHz	16QAM	41540	50RB#0	NV	10	-39.94	-0.014875	±2.5	PASS
Band41	10MHz	16QAM	41540	50RB#0	NV	20	-39.38	-0.014667	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	-30	-43.16	-0.017240	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	-20	19.11	0.007633	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	0	-33.07	-0.013210	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	10	-30.47	-0.012171	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	20	31.40	0.012542	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	-30	-35.35	-0.013633	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	-20	-26.08	-0.010058	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	0	-39.31	-0.015160	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	10	-22.75	-0.008774	±2.5	PASS

Band41	15MHz	QPSK	40620	75RB#0	NV	20	12.46	0.004805	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	-30	-26.54	-0.009894	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	-20	28.77	0.010725	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	0	29.21	0.010889	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	10	42.29	0.015765	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	20	-28.17	-0.010501	±2.5	PASS
Band41	15MHz	16QAM	39725	75RB#0	NV	-30	-12.23	-0.004885	±2.5	PASS
Band41	15MHz	16QAM	39725	75RB#0	NV	-20	13.79	0.005508	±2.5	PASS
Band41	15MHz	16QAM	39725	75RB#0	NV	0	-4.95	-0.001977	±2.5	PASS
Band41	15MHz	16QAM	39725	75RB#0	NV	10	-10.26	-0.004098	±2.5	PASS
Band41	15MHz	16QAM	39725	75RB#0	NV	20	-8.71	-0.003479	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	-30	-14.31	-0.005519	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	-20	-7.82	-0.003016	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	0	-14.83	-0.005719	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	10	-13.49	-0.005202	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	20	26.49	0.010216	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	NV	-30	27.81	0.010367	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	NV	-20	-17.74	-0.006613	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	NV	0	31.44	0.011720	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	NV	10	22.36	0.008336	±2.5	PASS
Band41	15MHz	16QAM	41515	75RB#0	NV	20	37.65	0.014035	±2.5	PASS

Band41	20MHz	QPSK	39750	100RB#0	NV	-30	-20.51	-0.008184	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-20	21.33	0.008512	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	0	21.72	0.008667	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	10	25.63	0.010227	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	20	-21.20	-0.008460	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-28.02	-0.010806	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	21.20	0.008176	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-20.26	-0.007813	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-24.38	-0.009402	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-22.73	-0.008766	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-30	-27.69	-0.010332	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-20	-30.90	-0.011530	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	0	31.10	0.011604	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	10	-24.76	-0.009239	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	20	-20.71	-0.007728	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-30	22.40	0.008939	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-20	-22.12	-0.008827	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	0	-25.58	-0.010208	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	10	-23.89	-0.009533	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	20	29.33	0.011704	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-30	-32.97	-0.012715	±2.5	PASS

Band41	20MHz	16QAM	40620	100RB#0	NV	-20	38.25	0.014751	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	0	30.50	0.011762	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	10	31.56	0.012171	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	20	24.12	0.009302	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-30	40.30	0.015037	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-20	25.98	0.009694	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	0	28.74	0.010724	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	10	-27.01	-0.010078	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	20	25.23	0.009414	±2.5	PASS