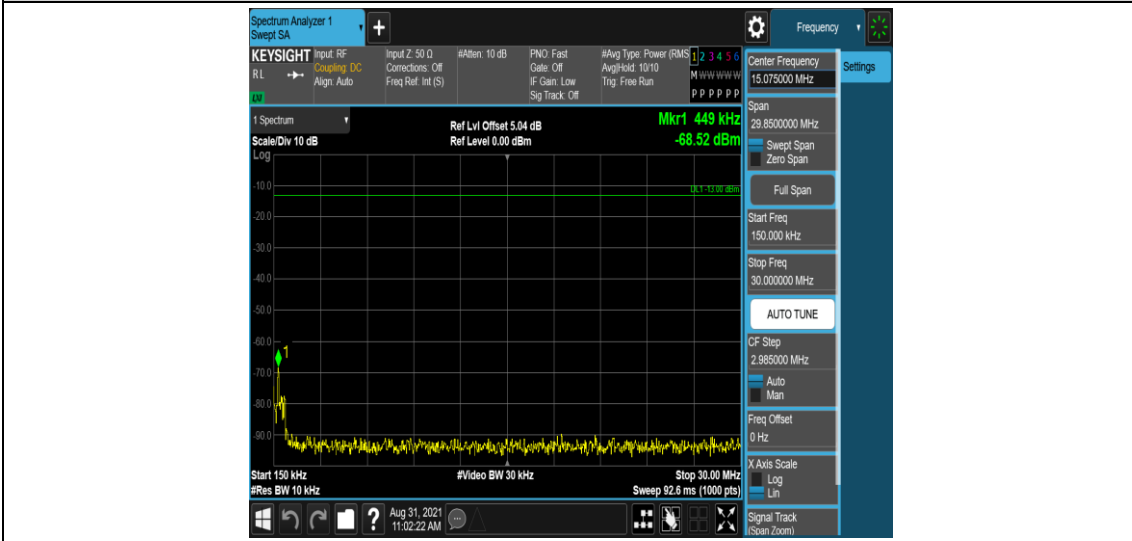
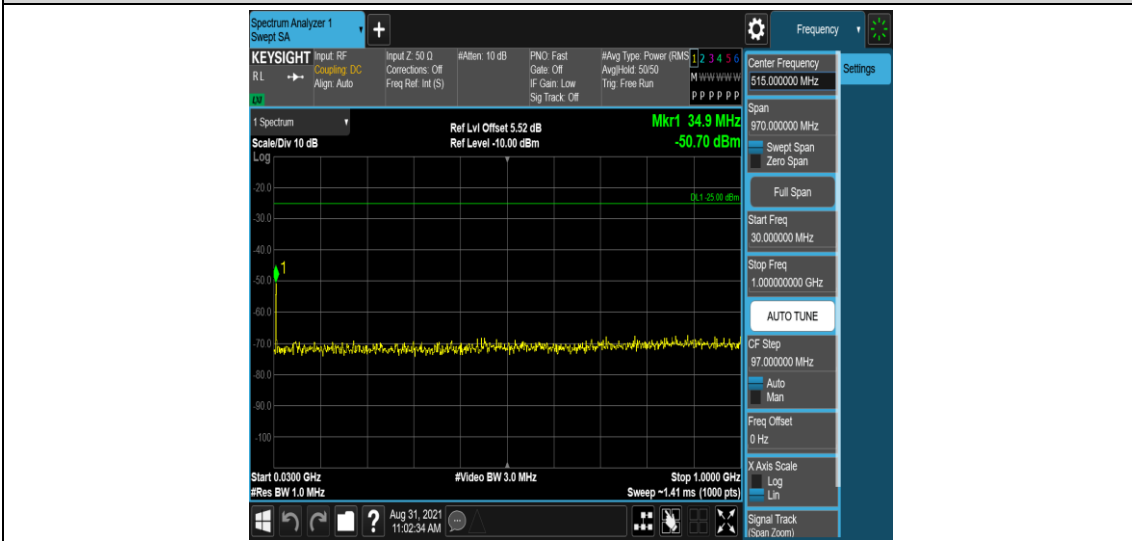


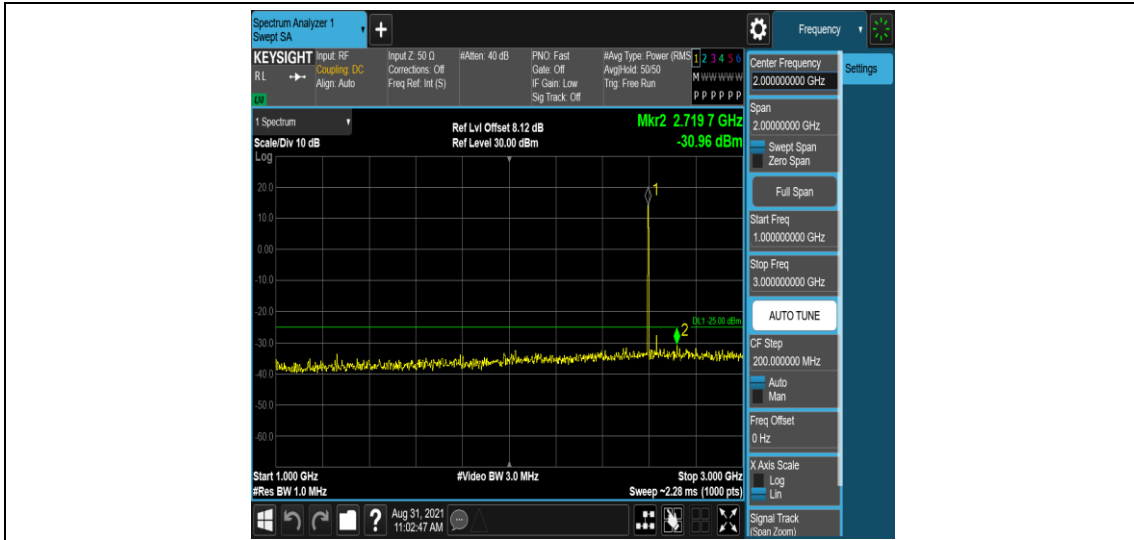
Band41-20MHz-16QAM-40740-1RB#0-Range2:0.15~30MHz



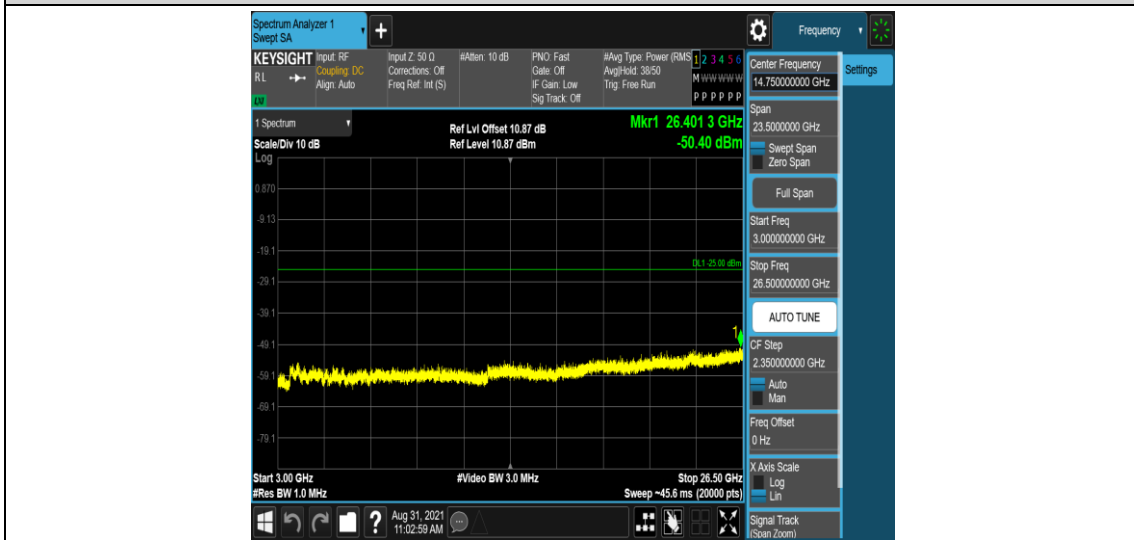
Band41-20MHz-16QAM-40740-1RB#0-Range3:30~1000MHz



Band41-20MHz-16QAM-40740-1RB#0-Range4:1000~3000MHz



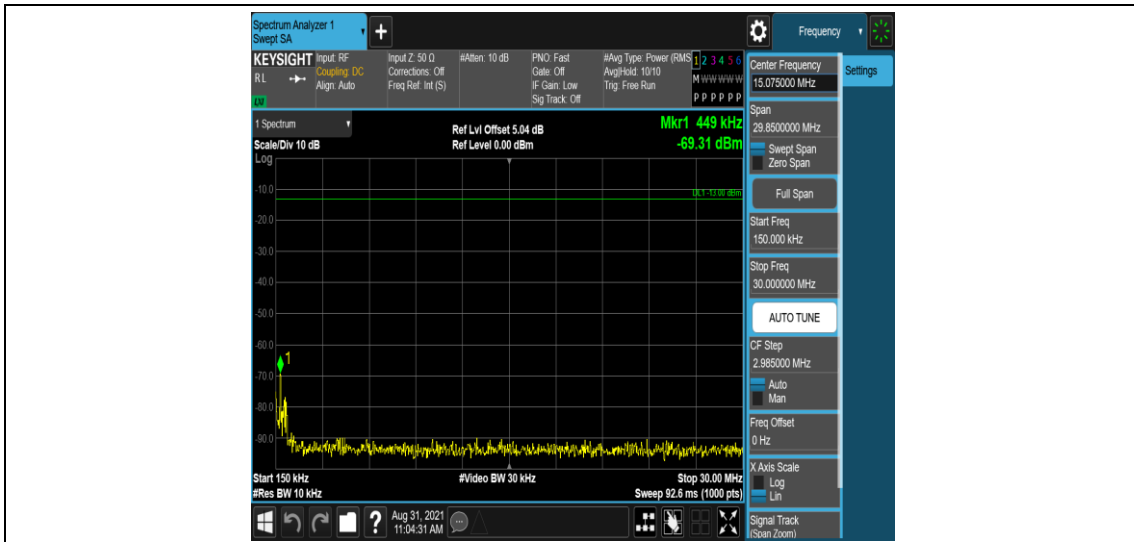
Band41-20MHz-16QAM-40740-1RB#0-Range5:3000~26500MHz



Band41-20MHz-16QAM-41140-1RB#0-Range1:0.009~0.15MHz



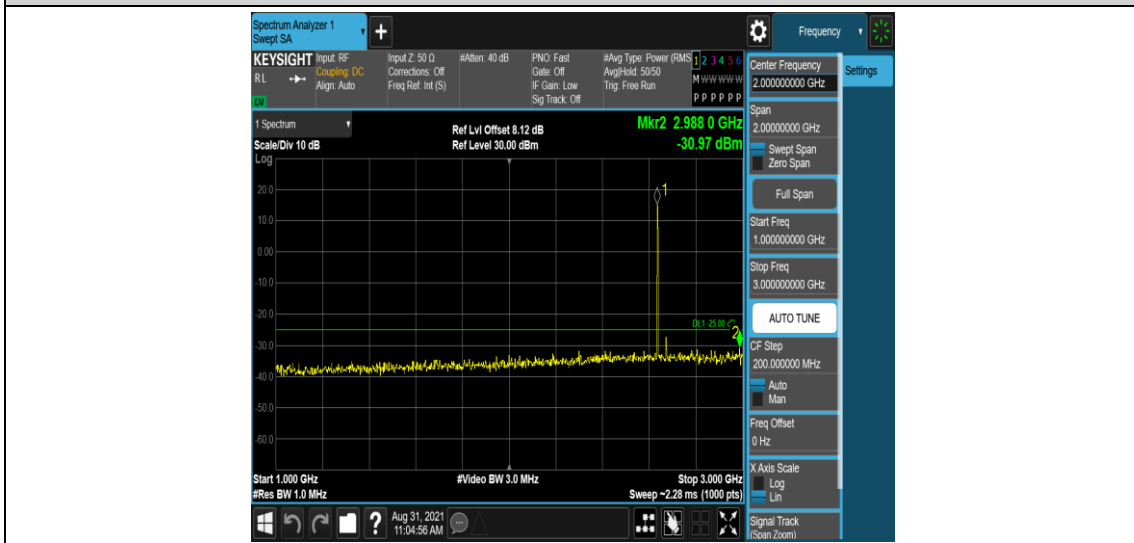
Band41-20MHz-16QAM-41140-1RB#0-Range2:0.15~30MHz



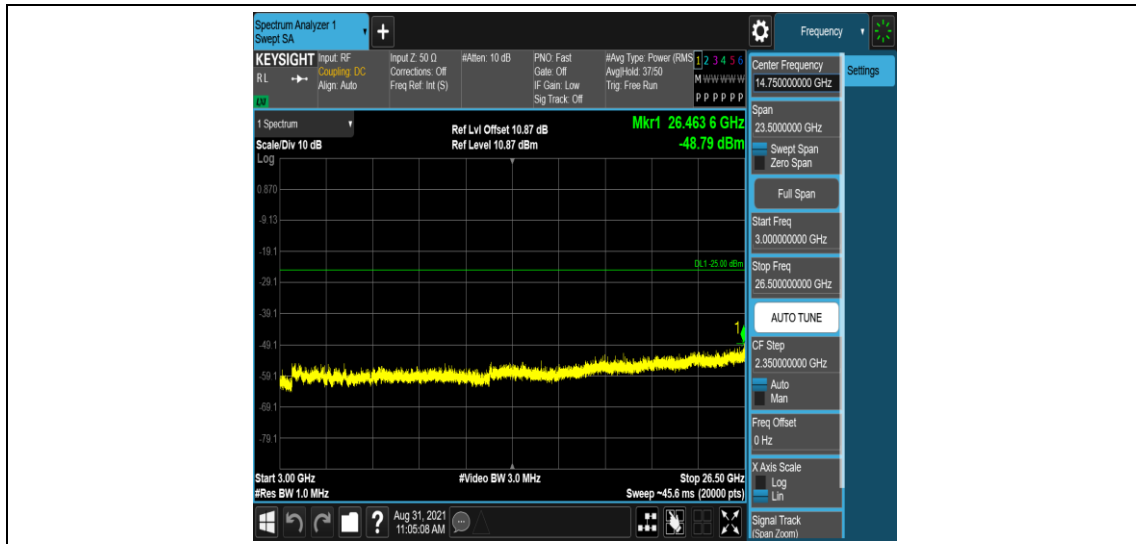
Band41-20MHz-16QAM-41140-1RB#0-Range3:30~1000MHz



Band41-20MHz-16QAM-41140-1RB#0-Range4:1000~3000MHz



Band41-20MHz-16QAM-41140-1RB#0-Range5:3000~26500MHz



## Appendix F: Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band4_1	5MHz	QPSK	40265	25RB#0	VL	NT	10.31	0.004031	±2.5	PASS
Band4_1	5MHz	QPSK	40265	25RB#0	VN	NT	19.14	0.007484	±2.5	PASS
Band4_1	5MHz	QPSK	40265	25RB#0	VH	NT	13.25	0.005181	±2.5	PASS
Band4_1	5MHz	QPSK	40740	25RB#0	VL	NT	-3.42	-0.001313	±2.5	PASS
Band4_1	5MHz	QPSK	40740	25RB#0	VN	NT	-4.41	-0.001693	±2.5	PASS
Band4_1	5MHz	QPSK	40740	25RB#0	VH	NT	2.96	0.001136	±2.5	PASS
Band4_1	5MHz	QPSK	41215	25RB#0	VL	NT	-9.47	-0.003570	±2.5	PASS
Band4_1	5MHz	QPSK	41215	25RB#0	VN	NT	-24.88	-0.009380	±2.5	PASS
Band4_1	5MHz	QPSK	41215	25RB#0	VH	NT	6.65	0.002507	±2.5	PASS
Band4_1	5MHz	16QAM	40265	25RB#0	VL	NT	12.04	0.004708	±2.5	PASS
Band4_1	5MHz	16QAM	40265	25RB#0	VN	NT	5.15	0.002014	±2.5	PASS
Band4_1	5MHz	16QAM	40265	25RB#0	VH	NT	10.37	0.004055	±2.5	PASS
Band4_1	5MHz	16QAM	40740	25RB#0	VL	NT	5.59	0.002146	±2.5	PASS
Band4_1	5MHz	16QAM	40740	25RB#0	VN	NT	7.97	0.003060	±2.5	PASS
Band4_1	5MHz	16QAM	40740	25RB#0	VH	NT	7.31	0.002806	±2.5	PASS
Band4_1	5MHz	16QAM	41215	25RB#0	VL	NT	27.31	0.010296	±2.5	PASS
Band4_1	5MHz	16QAM	41215	25RB#0	VN	NT	23.07	0.008697	±2.5	PASS

Band4 1	5MHz	16QAM	41215	25RB#0	VH	NT	27.32	0.010300	±2.5	PASS
Band4 1	10MHz	QPSK	40290	50RB#0	VL	NT	-9.06	-0.003539	±2.5	PASS
Band4 1	10MHz	QPSK	40290	50RB#0	VN	NT	-6.22	-0.002430	±2.5	PASS
Band4 1	10MHz	QPSK	40290	50RB#0	VH	NT	-8.85	-0.003457	±2.5	PASS
Band4 1	10MHz	QPSK	40740	50RB#0	VL	NT	5.31	0.002038	±2.5	PASS
Band4 1	10MHz	QPSK	40740	50RB#0	VN	NT	-13.39	-0.005140	±2.5	PASS
Band4 1	10MHz	QPSK	40740	50RB#0	VH	NT	-5.82	-0.002234	±2.5	PASS
Band4 1	10MHz	QPSK	41190	50RB#0	VL	NT	-7.74	-0.002921	±2.5	PASS
Band4 1	10MHz	QPSK	41190	50RB#0	VN	NT	-12.70	-0.004792	±2.5	PASS
Band4 1	10MHz	QPSK	41190	50RB#0	VH	NT	-8.23	-0.003106	±2.5	PASS
Band4 1	10MHz	16QAM	40290	50RB#0	VL	NT	-5.82	-0.002273	±2.5	PASS
Band4 1	10MHz	16QAM	40290	50RB#0	VN	NT	-12.69	-0.004957	±2.5	PASS
Band4 1	10MHz	16QAM	40290	50RB#0	VH	NT	12.85	0.005020	±2.5	PASS
Band4 1	10MHz	16QAM	40740	50RB#0	VL	NT	-8.20	-0.003148	±2.5	PASS
Band4 1	10MHz	16QAM	40740	50RB#0	VN	NT	-10.20	-0.003916	±2.5	PASS
Band4 1	10MHz	16QAM	40740	50RB#0	VH	NT	-7.67	-0.002944	±2.5	PASS
Band4 1	10MHz	16QAM	41190	50RB#0	VL	NT	-6.67	-0.002517	±2.5	PASS
Band4 1	10MHz	16QAM	41190	50RB#0	VN	NT	-8.81	-0.003325	±2.5	PASS
Band4 1	10MHz	16QAM	41190	50RB#0	VH	NT	-10.64	-0.004015	±2.5	PASS
Band4 1	15MHz	QPSK	40315	75RB#0	VL	NT	-5.74	-0.002240	±2.5	PASS
Band4 1	15MHz	QPSK	40315	75RB#0	VN	NT	-9.73	-0.003797	±2.5	PASS

Band4 1	15MHz	QPSK	40315	75RB#0	VH	NT	-6.02	-0.002349	±2.5	PASS
Band4 1	15MHz	QPSK	40740	75RB#0	VL	NT	-3.76	-0.001443	±2.5	PASS
Band4 1	15MHz	QPSK	40740	75RB#0	VN	NT	-8.07	-0.003098	±2.5	PASS
Band4 1	15MHz	QPSK	40740	75RB#0	VH	NT	-6.05	-0.002322	±2.5	PASS
Band4 1	15MHz	QPSK	41165	75RB#0	VL	NT	-5.26	-0.001987	±2.5	PASS
Band4 1	15MHz	QPSK	41165	75RB#0	VN	NT	-8.70	-0.003286	±2.5	PASS
Band4 1	15MHz	QPSK	41165	75RB#0	VH	NT	-7.44	-0.002810	±2.5	PASS
Band4 1	15MHz	16QAM	40315	75RB#0	VL	NT	12.82	0.005003	±2.5	PASS
Band4 1	15MHz	16QAM	40315	75RB#0	VN	NT	-7.02	-0.002740	±2.5	PASS
Band4 1	15MHz	16QAM	40315	75RB#0	VH	NT	-10.71	-0.004180	±2.5	PASS
Band4 1	15MHz	16QAM	40740	75RB#0	VL	NT	-5.97	-0.002292	±2.5	PASS
Band4 1	15MHz	16QAM	40740	75RB#0	VN	NT	-6.22	-0.002388	±2.5	PASS
Band4 1	15MHz	16QAM	40740	75RB#0	VH	NT	-3.86	-0.001482	±2.5	PASS
Band4 1	15MHz	16QAM	41165	75RB#0	VL	NT	-6.79	-0.002565	±2.5	PASS
Band4 1	15MHz	16QAM	41165	75RB#0	VN	NT	-9.17	-0.003464	±2.5	PASS
Band4 1	15MHz	16QAM	41165	75RB#0	VH	NT	-4.65	-0.001756	±2.5	PASS
Band4 1	20MHz	QPSK	40340	100RB#0	VL	NT	-4.39	-0.001712	±2.5	PASS
Band4 1	20MHz	QPSK	40340	100RB#0	VN	NT	-9.13	-0.003559	±2.5	PASS
Band4 1	20MHz	QPSK	40340	100RB#0	VH	NT	-11.06	-0.004312	±2.5	PASS
Band4 1	20MHz	QPSK	40740	100RB#0	VL	NT	-13.89	-0.005332	±2.5	PASS
Band4 1	20MHz	QPSK	40740	100RB#0	VN	NT	-15.36	-0.005896	±2.5	PASS

Band4 1	20MHz	QPSK	40740	100RB#0	VH	NT	-5.08	-0.001950	±2.5	PASS
Band4 1	20MHz	QPSK	41140	100RB#0	VL	NT	-10.81	-0.004087	±2.5	PASS
Band4 1	20MHz	QPSK	41140	100RB#0	VN	NT	-12.62	-0.004771	±2.5	PASS
Band4 1	20MHz	QPSK	41140	100RB#0	VH	NT	-7.48	-0.002828	±2.5	PASS
Band4 1	20MHz	16QAM	40340	100RB#0	VL	NT	1.76	0.000686	±2.5	PASS
Band4 1	20MHz	16QAM	40340	100RB#0	VN	NT	-12.99	-0.005064	±2.5	PASS
Band4 1	20MHz	16QAM	40340	100RB#0	VH	NT	-6.95	-0.002710	±2.5	PASS
Band4 1	20MHz	16QAM	40740	100RB#0	VL	NT	-7.78	-0.002987	±2.5	PASS
Band4 1	20MHz	16QAM	40740	100RB#0	VN	NT	-4.38	-0.001681	±2.5	PASS
Band4 1	20MHz	16QAM	40740	100RB#0	VH	NT	-4.31	-0.001655	±2.5	PASS
Band4 1	20MHz	16QAM	41140	100RB#0	VL	NT	-7.21	-0.002726	±2.5	PASS
Band4 1	20MHz	16QAM	41140	100RB#0	VN	NT	-7.87	-0.002975	±2.5	PASS
Band4 1	20MHz	16QAM	41140	100RB#0	VH	NT	-7.94	-0.003002	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4 1	5MHz	QPSK	40265	25RB#0	NV	-30	11.04	0.004317	±2.5	PASS
Band4 1	5MHz	QPSK	40265	25RB#0	NV	-20	11.72	0.004583	±2.5	PASS
Band4 1	5MHz	QPSK	40265	25RB#0	NV	0	15.98	0.006248	±2.5	PASS
Band4 1	5MHz	QPSK	40265	25RB#0	NV	10	10.81	0.004227	±2.5	PASS
Band4 1	5MHz	QPSK	40265	25RB#0	NV	20	9.66	0.003777	±2.5	PASS
Band4 1	5MHz	QPSK	40740	25RB#0	NV	-30	5.69	0.002184	±2.5	PASS



Band4 1	5MHz	QPSK	40740	25RB#0	NV	-20	10.21	0.003919	±2.5	PASS
Band4 1	5MHz	QPSK	40740	25RB#0	NV	0	9.36	0.003593	±2.5	PASS
Band4 1	5MHz	QPSK	40740	25RB#0	NV	10	8.80	0.003378	±2.5	PASS
Band4 1	5MHz	QPSK	40740	25RB#0	NV	20	9.53	0.003658	±2.5	PASS
Band4 1	5MHz	QPSK	41215	25RB#0	NV	-30	9.01	0.003397	±2.5	PASS
Band4 1	5MHz	QPSK	41215	25RB#0	NV	-20	10.10	0.003808	±2.5	PASS
Band4 1	5MHz	QPSK	41215	25RB#0	NV	0	17.22	0.006492	±2.5	PASS
Band4 1	5MHz	QPSK	41215	25RB#0	NV	10	14.59	0.005500	±2.5	PASS
Band4 1	5MHz	QPSK	41215	25RB#0	NV	20	15.85	0.005975	±2.5	PASS
Band4 1	5MHz	16QAM	40265	25RB#0	NV	-30	8.60	0.003363	±2.5	PASS
Band4 1	5MHz	16QAM	40265	25RB#0	NV	-20	8.61	0.003367	±2.5	PASS
Band4 1	5MHz	16QAM	40265	25RB#0	NV	0	4.84	0.001892	±2.5	PASS
Band4 1	5MHz	16QAM	40265	25RB#0	NV	10	2.40	0.000938	±2.5	PASS
Band4 1	5MHz	16QAM	40265	25RB#0	NV	20	-2.69	-0.001052	±2.5	PASS
Band4 1	5MHz	16QAM	40740	25RB#0	NV	-30	7.15	0.002745	±2.5	PASS
Band4 1	5MHz	16QAM	40740	25RB#0	NV	-20	7.34	0.002818	±2.5	PASS
Band4 1	5MHz	16QAM	40740	25RB#0	NV	0	-5.21	-0.002000	±2.5	PASS
Band4 1	5MHz	16QAM	40740	25RB#0	NV	10	-4.88	-0.001873	±2.5	PASS
Band4 1	5MHz	16QAM	40740	25RB#0	NV	20	2.55	0.000979	±2.5	PASS
Band4 1	5MHz	16QAM	41215	25RB#0	NV	-30	28.40	0.010707	±2.5	PASS
Band4 1	5MHz	16QAM	41215	25RB#0	NV	-20	26.56	0.010013	±2.5	PASS

Band4 1	5MHz	16QAM	41215	25RB#0	NV	0	30.98	0.011680	±2.5	PASS
Band4 1	5MHz	16QAM	41215	25RB#0	NV	10	29.21	0.011012	±2.5	PASS
Band4 1	5MHz	16QAM	41215	25RB#0	NV	20	27.47	0.010356	±2.5	PASS
Band4 1	10MHz	QPSK	40290	50RB#0	NV	-30	-3.65	-0.001426	±2.5	PASS
Band4 1	10MHz	QPSK	40290	50RB#0	NV	-20	-3.50	-0.001367	±2.5	PASS
Band4 1	10MHz	QPSK	40290	50RB#0	NV	0	-7.50	-0.002930	±2.5	PASS
Band4 1	10MHz	QPSK	40290	50RB#0	NV	10	-7.95	-0.003105	±2.5	PASS
Band4 1	10MHz	QPSK	40290	50RB#0	NV	20	-8.96	-0.003500	±2.5	PASS
Band4 1	10MHz	QPSK	40740	50RB#0	NV	-30	-6.27	-0.002407	±2.5	PASS
Band4 1	10MHz	QPSK	40740	50RB#0	NV	-20	-9.11	-0.003497	±2.5	PASS
Band4 1	10MHz	QPSK	40740	50RB#0	NV	0	-11.03	-0.004234	±2.5	PASS
Band4 1	10MHz	QPSK	40740	50RB#0	NV	10	-5.87	-0.002253	±2.5	PASS
Band4 1	10MHz	QPSK	40740	50RB#0	NV	20	-5.65	-0.002169	±2.5	PASS
Band4 1	10MHz	QPSK	41190	50RB#0	NV	-30	-8.97	-0.003385	±2.5	PASS
Band4 1	10MHz	QPSK	41190	50RB#0	NV	-20	-8.33	-0.003143	±2.5	PASS
Band4 1	10MHz	QPSK	41190	50RB#0	NV	0	-9.28	-0.003502	±2.5	PASS
Band4 1	10MHz	QPSK	41190	50RB#0	NV	10	-10.54	-0.003977	±2.5	PASS
Band4 1	10MHz	QPSK	41190	50RB#0	NV	20	-11.77	-0.004442	±2.5	PASS
Band4 1	10MHz	16QAM	40290	50RB#0	NV	-30	-7.62	-0.002977	±2.5	PASS
Band4 1	10MHz	16QAM	40290	50RB#0	NV	-20	-10.51	-0.004105	±2.5	PASS
Band4 1	10MHz	16QAM	40290	50RB#0	NV	0	-9.03	-0.003527	±2.5	PASS

Band4 1	10MHz	16QAM	40290	50RB#0	NV	10	2.92	0.001141	±2.5	PASS
Band4 1	10MHz	16QAM	40290	50RB#0	NV	20	-12.80	-0.005000	±2.5	PASS
Band4 1	10MHz	16QAM	40740	50RB#0	NV	-30	-6.05	-0.002322	±2.5	PASS
Band4 1	10MHz	16QAM	40740	50RB#0	NV	-20	-9.41	-0.003612	±2.5	PASS
Band4 1	10MHz	16QAM	40740	50RB#0	NV	0	-11.03	-0.004234	±2.5	PASS
Band4 1	10MHz	16QAM	40740	50RB#0	NV	10	3.93	0.001509	±2.5	PASS
Band4 1	10MHz	16QAM	40740	50RB#0	NV	20	-10.13	-0.003889	±2.5	PASS
Band4 1	10MHz	16QAM	41190	50RB#0	NV	-30	-6.54	-0.002468	±2.5	PASS
Band4 1	10MHz	16QAM	41190	50RB#0	NV	-20	-8.47	-0.003196	±2.5	PASS
Band4 1	10MHz	16QAM	41190	50RB#0	NV	0	-8.98	-0.003389	±2.5	PASS
Band4 1	10MHz	16QAM	41190	50RB#0	NV	10	-9.91	-0.003740	±2.5	PASS
Band4 1	10MHz	16QAM	41190	50RB#0	NV	20	-10.47	-0.003951	±2.5	PASS
Band4 1	15MHz	QPSK	40315	75RB#0	NV	-30	-5.87	-0.002291	±2.5	PASS
Band4 1	15MHz	QPSK	40315	75RB#0	NV	-20	-9.10	-0.003551	±2.5	PASS
Band4 1	15MHz	QPSK	40315	75RB#0	NV	0	-6.97	-0.002720	±2.5	PASS
Band4 1	15MHz	QPSK	40315	75RB#0	NV	10	-8.13	-0.003173	±2.5	PASS
Band4 1	15MHz	QPSK	40315	75RB#0	NV	20	-5.88	-0.002295	±2.5	PASS
Band4 1	15MHz	QPSK	40740	75RB#0	NV	-30	-6.54	-0.002511	±2.5	PASS
Band4 1	15MHz	QPSK	40740	75RB#0	NV	-20	-6.92	-0.002656	±2.5	PASS
Band4 1	15MHz	QPSK	40740	75RB#0	NV	0	-7.07	-0.002714	±2.5	PASS
Band4 1	15MHz	QPSK	40740	75RB#0	NV	10	-6.31	-0.002422	±2.5	PASS

Band4 1	15MHz	QPSK	40740	75RB#0	NV	20	-11.40	-0.004376	±2.5	PASS
Band4 1	15MHz	QPSK	41165	75RB#0	NV	-30	-6.72	-0.002538	±2.5	PASS
Band4 1	15MHz	QPSK	41165	75RB#0	NV	-20	-8.11	-0.003063	±2.5	PASS
Band4 1	15MHz	QPSK	41165	75RB#0	NV	0	-10.97	-0.004144	±2.5	PASS
Band4 1	15MHz	QPSK	41165	75RB#0	NV	10	-14.66	-0.005537	±2.5	PASS
Band4 1	15MHz	QPSK	41165	75RB#0	NV	20	-9.00	-0.003399	±2.5	PASS
Band4 1	15MHz	16QAM	40315	75RB#0	NV	-30	-3.39	-0.001323	±2.5	PASS
Band4 1	15MHz	16QAM	40315	75RB#0	NV	-20	-8.01	-0.003126	±2.5	PASS
Band4 1	15MHz	16QAM	40315	75RB#0	NV	0	-5.69	-0.002220	±2.5	PASS
Band4 1	15MHz	16QAM	40315	75RB#0	NV	10	-5.04	-0.001967	±2.5	PASS
Band4 1	15MHz	16QAM	40315	75RB#0	NV	20	-8.58	-0.003348	±2.5	PASS
Band4 1	15MHz	16QAM	40740	75RB#0	NV	-30	-7.41	-0.002845	±2.5	PASS
Band4 1	15MHz	16QAM	40740	75RB#0	NV	-20	-5.95	-0.002284	±2.5	PASS
Band4 1	15MHz	16QAM	40740	75RB#0	NV	0	-4.41	-0.001693	±2.5	PASS
Band4 1	15MHz	16QAM	40740	75RB#0	NV	10	-6.15	-0.002361	±2.5	PASS
Band4 1	15MHz	16QAM	40740	75RB#0	NV	20	-5.69	-0.002184	±2.5	PASS
Band4 1	15MHz	16QAM	41165	75RB#0	NV	-30	-8.80	-0.003324	±2.5	PASS
Band4 1	15MHz	16QAM	41165	75RB#0	NV	-20	-10.20	-0.003853	±2.5	PASS
Band4 1	15MHz	16QAM	41165	75RB#0	NV	0	-15.09	-0.005700	±2.5	PASS
Band4 1	15MHz	16QAM	41165	75RB#0	NV	10	-13.86	-0.005235	±2.5	PASS
Band4 1	15MHz	16QAM	41165	75RB#0	NV	20	-11.07	-0.004181	±2.5	PASS

Band4 1	20MHz	QPSK	40340	100RB#0	NV	-30	-8.31	-0.003240	±2.5	PASS
Band4 1	20MHz	QPSK	40340	100RB#0	NV	-20	-7.22	-0.002815	±2.5	PASS
Band4 1	20MHz	QPSK	40340	100RB#0	NV	0	-13.99	-0.005454	±2.5	PASS
Band4 1	20MHz	QPSK	40340	100RB#0	NV	10	-16.25	-0.006335	±2.5	PASS
Band4 1	20MHz	QPSK	40340	100RB#0	NV	20	-11.03	-0.004300	±2.5	PASS
Band4 1	20MHz	QPSK	40740	100RB#0	NV	-30	-6.92	-0.002656	±2.5	PASS
Band4 1	20MHz	QPSK	40740	100RB#0	NV	-20	-7.95	-0.003052	±2.5	PASS
Band4 1	20MHz	QPSK	40740	100RB#0	NV	0	-3.36	-0.001290	±2.5	PASS
Band4 1	20MHz	QPSK	40740	100RB#0	NV	10	-5.58	-0.002142	±2.5	PASS
Band4 1	20MHz	QPSK	40740	100RB#0	NV	20	-6.75	-0.002591	±2.5	PASS
Band4 1	20MHz	QPSK	41140	100RB#0	NV	-30	-17.51	-0.006620	±2.5	PASS
Band4 1	20MHz	QPSK	41140	100RB#0	NV	-20	-10.46	-0.003955	±2.5	PASS
Band4 1	20MHz	QPSK	41140	100RB#0	NV	0	-10.81	-0.004087	±2.5	PASS
Band4 1	20MHz	QPSK	41140	100RB#0	NV	10	-7.30	-0.002760	±2.5	PASS
Band4 1	20MHz	QPSK	41140	100RB#0	NV	20	-8.05	-0.003043	±2.5	PASS
Band4 1	20MHz	16QAM	40340	100RB#0	NV	-30	-13.33	-0.005197	±2.5	PASS
Band4 1	20MHz	16QAM	40340	100RB#0	NV	-20	-6.39	-0.002491	±2.5	PASS
Band4 1	20MHz	16QAM	40340	100RB#0	NV	0	-11.14	-0.004343	±2.5	PASS
Band4 1	20MHz	16QAM	40340	100RB#0	NV	10	-13.38	-0.005216	±2.5	PASS
Band4 1	20MHz	16QAM	40340	100RB#0	NV	20	-16.89	-0.006585	±2.5	PASS
Band4 1	20MHz	16QAM	40740	100RB#0	NV	-30	-6.52	-0.002503	±2.5	PASS

Band4 1	20MHz	16QAM	40740	100RB#0	NV	-20	-8.31	-0.003190	±2.5	PASS
Band4 1	20MHz	16QAM	40740	100RB#0	NV	0	-4.71	-0.001808	±2.5	PASS
Band4 1	20MHz	16QAM	40740	100RB#0	NV	10	-6.09	-0.002338	±2.5	PASS
Band4 1	20MHz	16QAM	40740	100RB#0	NV	20	-6.38	-0.002449	±2.5	PASS
Band4 1	20MHz	16QAM	41140	100RB#0	NV	-30	-7.98	-0.003017	±2.5	PASS
Band4 1	20MHz	16QAM	41140	100RB#0	NV	-20	-9.47	-0.003580	±2.5	PASS
Band4 1	20MHz	16QAM	41140	100RB#0	NV	0	-10.90	-0.004121	±2.5	PASS
Band4 1	20MHz	16QAM	41140	100RB#0	NV	10	-6.42	-0.002427	±2.5	PASS
Band4 1	20MHz	16QAM	41140	100RB#0	NV	20	-16.97	-0.006416	±2.5	PASS