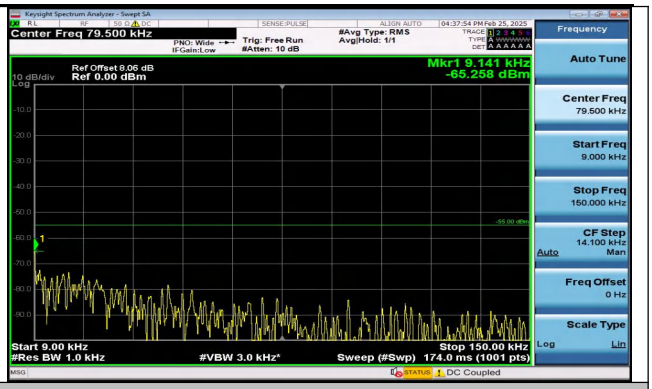
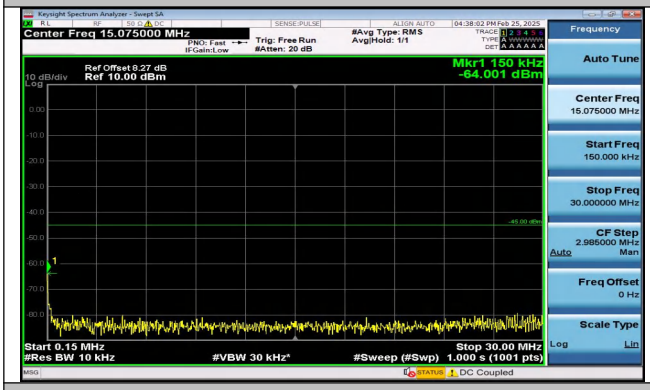
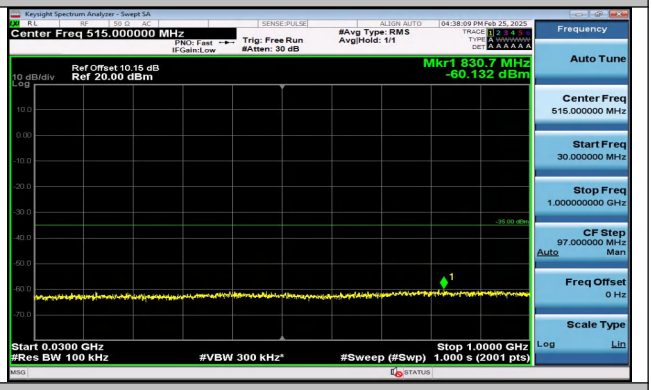
Band41_20MHz_QPSK_40620_1RB#99_20000~27000_20000~27000



Band41_20MHz_QPSK_40620_100RB#0_0.009~0.15_0.009~0.15



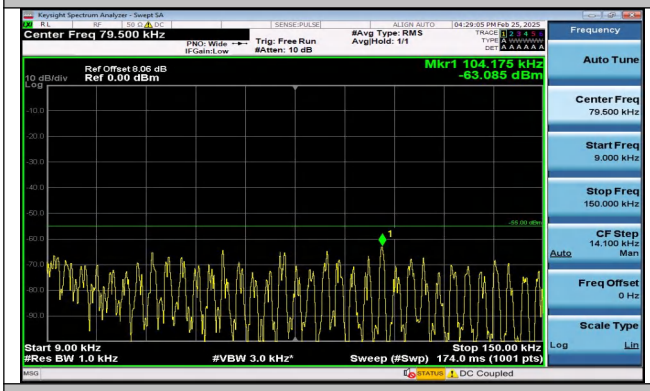
Band41_20MHz_QPSK_40620_100RB#0_0.15~30_0.15~30



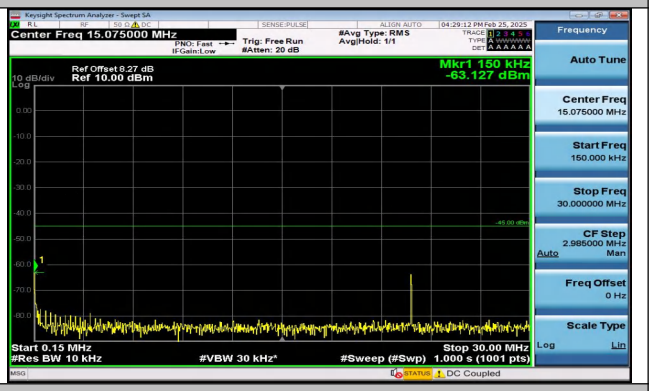
Band41_20MHz_QPSK_40620_100RB#0_30~1000_30~1000

Band41_20MHz_QPSK_40620_100RB#0_1000~20000_1000~20000

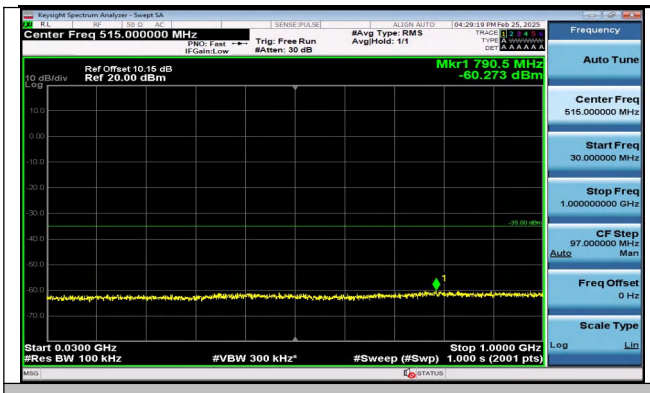
Band41_20MHz_QPSK_40620_100RB#0_20000~27000_20000~27000



Band41_20MHz_16QAM_40620_1RB#0_0.009~0.15_0.009~0.15



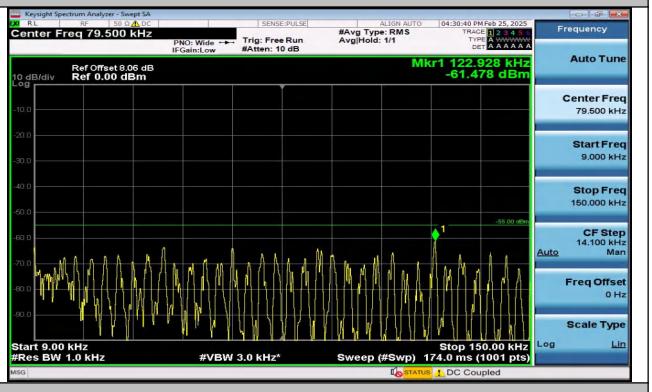
Band41_20MHz_16QAM_40620_1RB#0_0.15~30_0.15~30



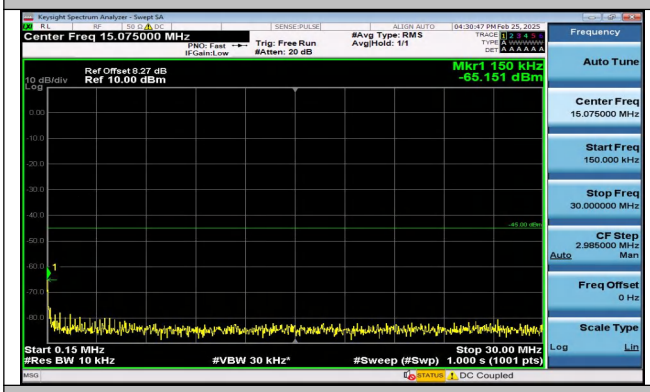
Band41_20MHz_16QAM_40620_1RB#0_30~1000_30~1000

Band41_20MHz_16QAM_40620_1RB#0_1000~20000_1000~20000

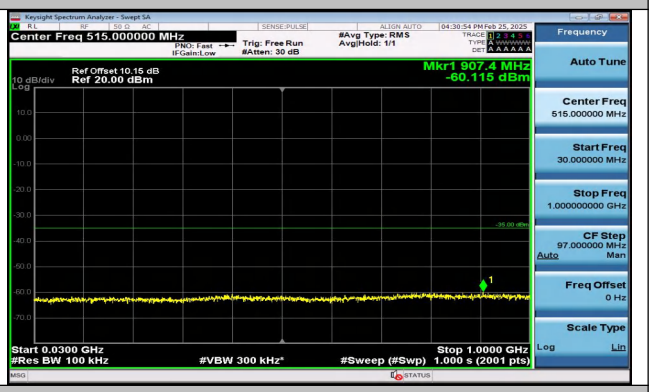
Band41_20MHz_16QAM_40620_1RB#0_20000~27000_20000~27000



Band41_20MHz_16QAM_40620_1RB#99_0.009~0.15_0.009~0.15



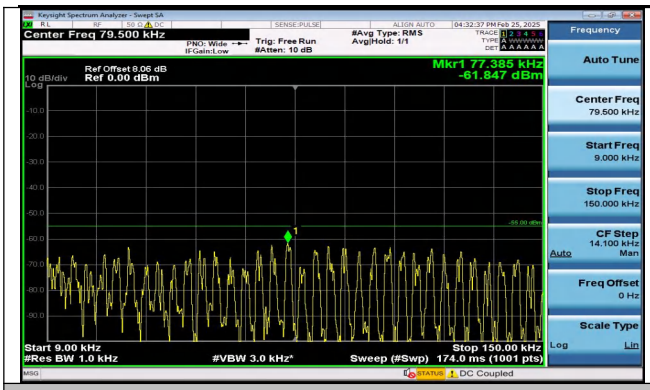
Band41_20MHz_16QAM_40620_1RB#99_0.15~30_0.15~30



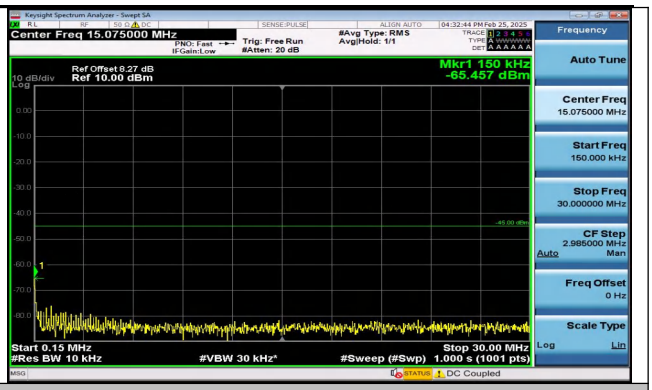
Band41_20MHz_16QAM_40620_1RB#99_30~1000_30~1000

Band41_20MHz_16QAM_40620_1RB#99_1000~20000_1000~20000

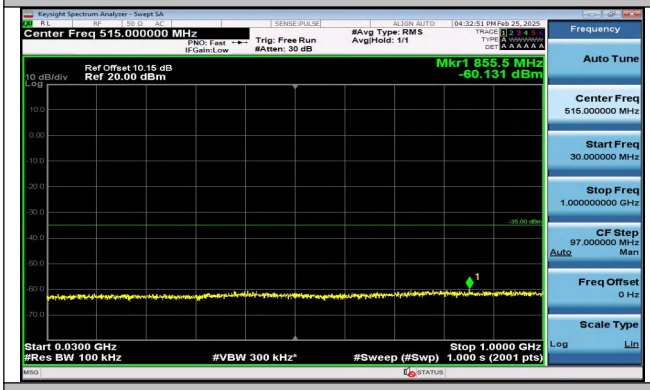
Band41_20MHz_16QAM_40620_1RB#99_20000~27000_20000~27000



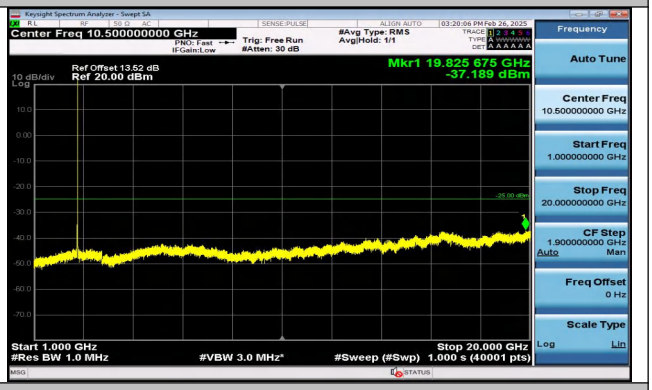
Band41_20MHz_QPSK_41490_1RB#0_0.009~0.15_0.009~0.15



Band41_20MHz_QPSK_41490_1RB#0_0.15~30_0.15~30

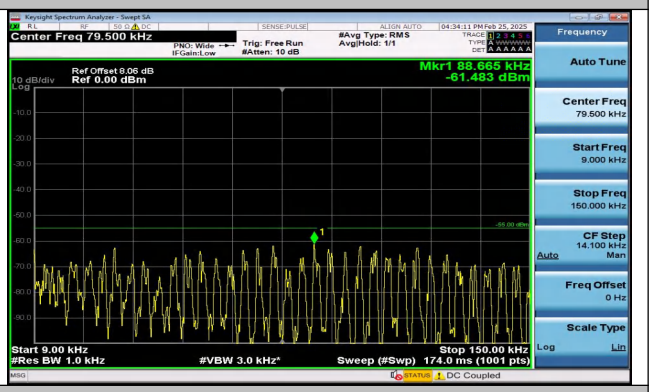


Band41_20MHz_QPSK_41490_1RB#0_30~1000_30~1000

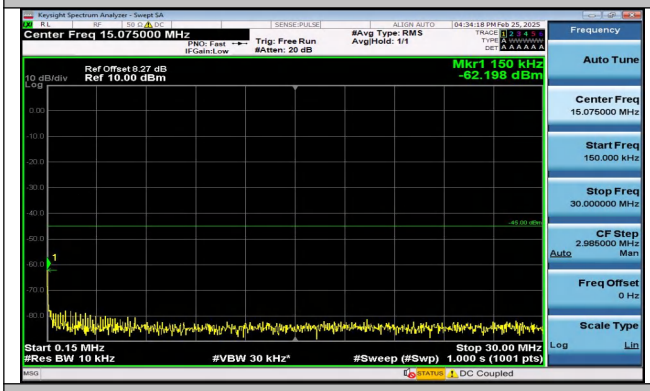


Band41_20MHz_QPSK_41490_1RB#0_1000~20000_1000~20000

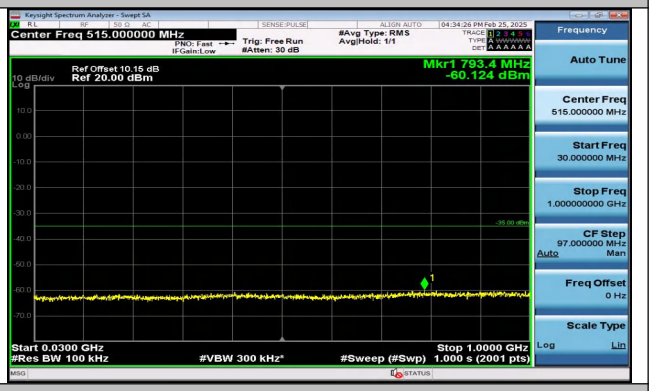
Band41_20MHz_QPSK_41490_1RB#0_20000~27000_20000~27000



Band41_20MHz_QPSK_41490_1RB#99_0.009~0.15_0.009~0.15



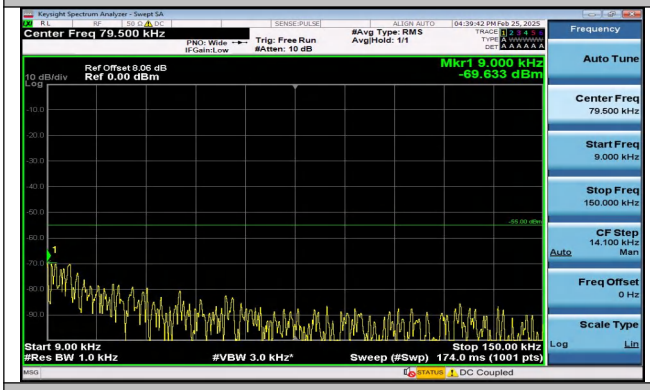
Band41_20MHz_QPSK_41490_1RB#99_0.15~30_0.15~30



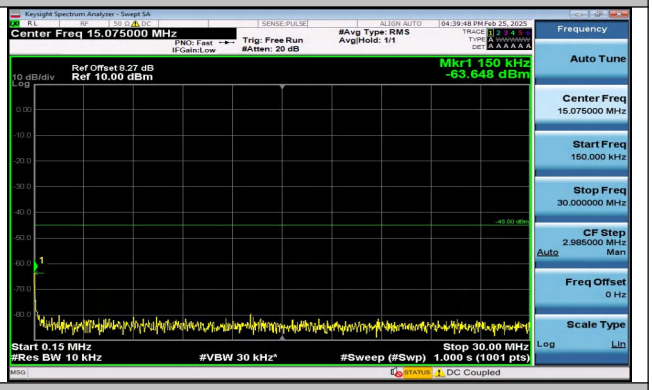
Band41_20MHz_QPSK_41490_1RB#99_30~1000_30~1000

Band41_20MHz_QPSK_41490_1RB#99_1000~20000_1000~20000

Band41_20MHz_QPSK_41490_1RB#99_20000~27000_20000~27000

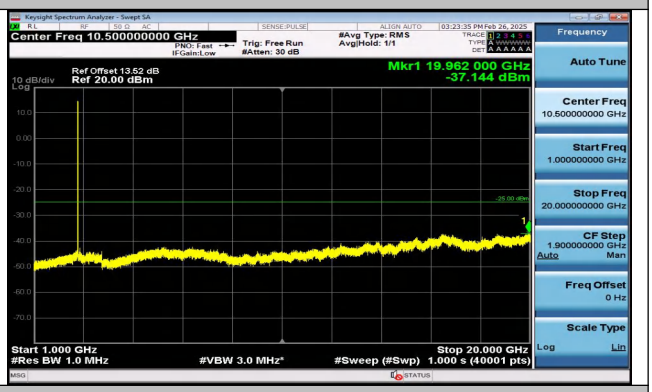


Band41_20MHz_QPSK_41490_100RB#0_0.009~0.15_0.009~0.15



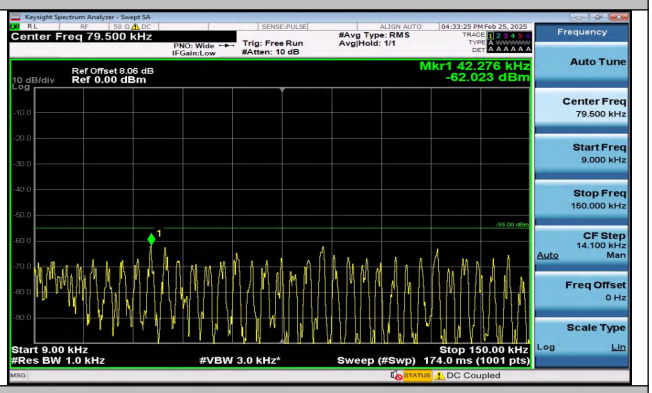
Band41_20MHz_QPSK_41490_100RB#0_0.15~30_0.15~30

Band41_20MHz_QPSK_41490_100RB#0_30~1000_30~1000

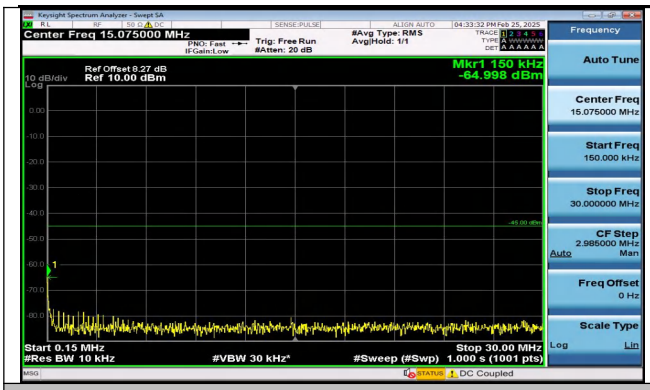


Band41_20MHz_QPSK_41490_100RB#0_1000~20000_1000~20000

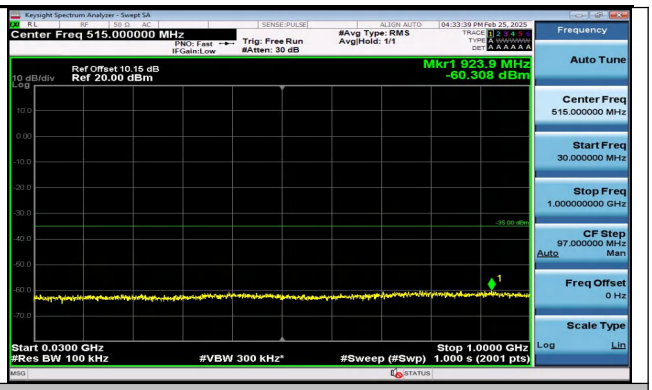
Band41_20MHz_QPSK_41490_100RB#0_20000~27000_20000~27000



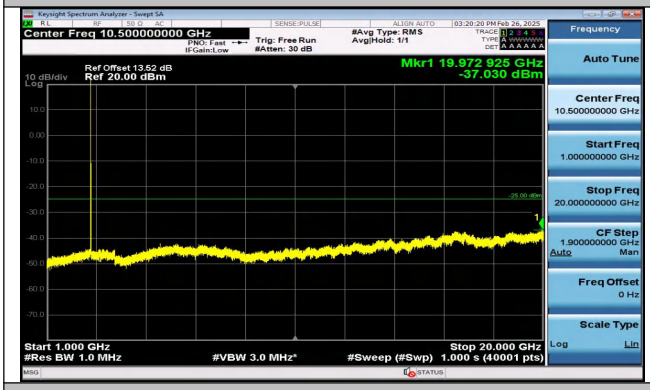
Band41_20MHz_16QAM_41490_1RB#0_0.009~0.15_0.009~0.15



Band41_20MHz_16QAM_41490_1RB#0_0.15~30_0.15~30

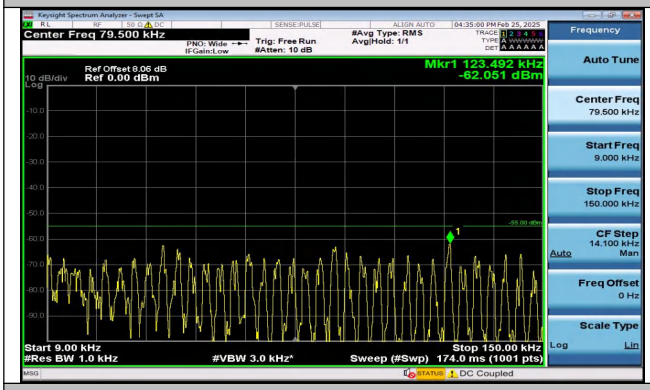


Band41_20MHz_16QAM_41490_1RB#0_30~1000_30~1000

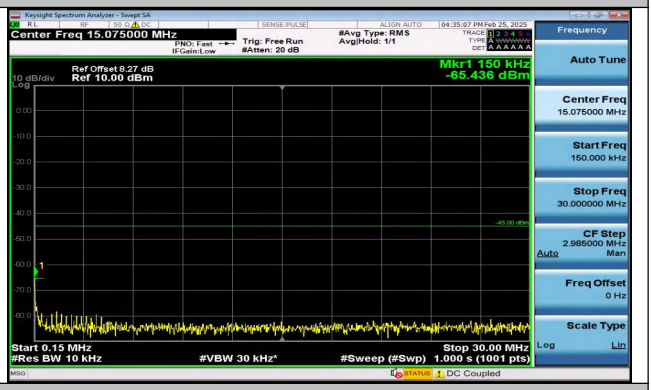


Band41_20MHz_16QAM_41490_1RB#0_1000~20000_1000~20000

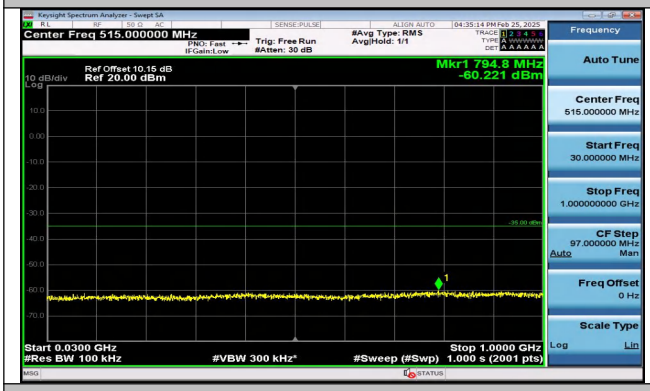
Band41_20MHz_16QAM_41490_1RB#0_20000~27000_20000~27000



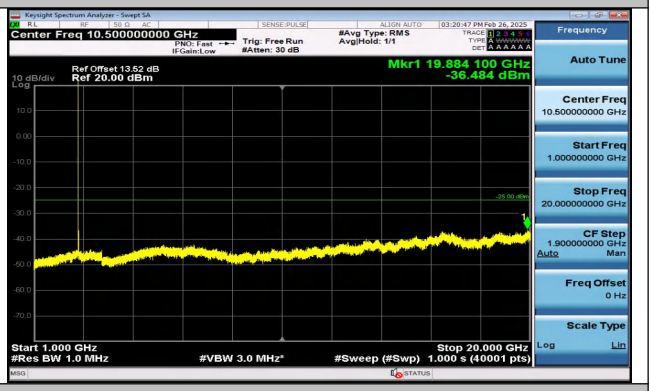
Band41_20MHz_16QAM_41490_1RB#99_0.009~0.15_0.009~0.15



Band41_20MHz_16QAM_41490_1RB#99_0.15~30_0.15~30



Band41_20MHz_16QAM_41490_1RB#99_30~1000_30~1000



Band41_20MHz_16QAM_41490_1RB#99_1000~20000_1000~20000

Band41_20MHz_16QAM_41490_1RB#99_20000~27000_20000~27000

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	VN	NT	-20.33	-0.008137	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	VL	NT	16.74	0.006700	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	VH	NT	19.50	0.007805	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	VN	NT	-7.40	-0.002962	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	VL	NT	-23.46	-0.009390	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	VH	NT	-31.27	-0.012516	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	VN	NT	12.12	0.004674	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	VL	NT	26.71	0.010301	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	VH	NT	11.16	0.004304	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	VN	NT	13.86	0.005345	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	VL	NT	-33.79	-0.013031	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	VH	NT	-18.57	-0.007162	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	VN	NT	22.76	0.008469	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	VL	NT	-11.34	-0.004220	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	VH	NT	-6.51	-0.002422	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	VN	NT	-22.36	-0.008320	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	VL	NT	-22.80	-0.008484	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	VH	NT	-23.98	-0.008923	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	VN	NT	-30.28	-0.012107	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	VL	NT	27.85	0.011136	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	VH	NT	25.32	0.010124	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	VN	NT	-13.52	-0.005214	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	VL	NT	-25.23	-0.009730	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	VH	NT	-22.57	-0.008704	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	VN	NT	23.78	0.008857	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	VL	NT	-34.10	-0.012700	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	VH	NT	-13.66	-0.005088	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	VN	NT	-41.73	-0.016669	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	VL	NT	-15.39	-0.006147	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	VH	NT	21.47	0.008576	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	VN	NT	20.28	0.007821	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	VL	NT	-6.72	-0.002592	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	VH	NT	11.36	0.004381	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	VN	NT	-30.16	-0.011243	±2.5	PASS

Band41	15MHz	QPSK	41515	75RB#0	VL	NT	-21.70	-0.008089	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	VH	NT	-24.26	-0.009044	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VN	NT	-41.90	-0.016720	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VL	NT	-42.04	-0.016776	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VH	NT	-30.01	-0.011975	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-38.18	-0.014724	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-30.71	-0.011843	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-31.24	-0.012048	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VN	NT	-25.01	-0.009332	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VL	NT	-17.80	-0.006642	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VH	NT	-19.10	-0.007127	±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	17.87	0.007152	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	-20	26.02	0.010414	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	-10	29.85	0.011947	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	0	25.28	0.010118	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	10	22.19	0.008881	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	20	19.14	0.007661	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	30	15.11	0.006048	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	40	26.18	0.010478	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	50	16.95	0.006784	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	-30	-22.52	-0.009013	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	-20	-39.31	-0.015733	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	-10	-27.05	-0.010826	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	0	-32.92	-0.013176	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	10	-35.71	-0.014293	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	20	-40.56	-0.016234	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	30	-19.67	-0.007873	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	40	-21.21	-0.008489	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	50	-26.85	-0.010746	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	-30	25.05	0.009661	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	-20	12.40	0.004782	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	-10	22.83	0.008804	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	0	5.36	0.002067	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	10	13.13	0.005064	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	20	15.95	0.006151	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	30	24.49	0.009445	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	40	-6.39	-0.002464	±2.5	PASS

Band41	5MHz	QPSK	40620	25RB#0	NV	50	8.91	0.003436	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	-30	-17.97	-0.006930	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	-20	-30.40	-0.011724	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	-10	-14.53	-0.005604	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	0	-21.47	-0.008280	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	10	-31.31	-0.012075	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	20	-12.76	-0.004921	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	30	-16.12	-0.006217	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	40	-23.33	-0.008997	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	50	-25.85	-0.009969	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	-30	-6.19	-0.002303	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	-20	-5.45	-0.002028	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	-10	-8.65	-0.003219	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	0	-10.70	-0.003981	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	10	-13.93	-0.005183	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	20	-17.17	-0.006389	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	30	-18.31	-0.006813	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	40	-22.06	-0.008208	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	50	-26.61	-0.009901	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	-30	-14.92	-0.005552	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	-20	-26.97	-0.010035	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	-10	-12.50	-0.004651	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	0	-21.21	-0.007892	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	10	-31.70	-0.011795	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	20	-12.04	-0.004480	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	30	-18.63	-0.006932	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	40	-25.05	-0.009321	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	50	-29.57	-0.011003	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	-30	24.43	0.009768	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	-20	12.17	0.004866	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	-10	9.98	0.003990	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	0	5.99	0.002395	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	10	25.82	0.010324	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	20	19.51	0.007801	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	30	-8.01	-0.003203	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	40	14.69	0.005874	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	50	28.55	0.011415	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	-30	-22.59	-0.008712	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	-20	-24.18	-0.009325	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	-10	-26.81	-0.010339	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	0	-27.72	-0.010690	±2.5	PASS

Band41	10MHz	QPSK	40620	50RB#0	NV	10	-25.75	-0.009931	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	20	-29.33	-0.011311	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	30	-28.65	-0.011049	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	40	-27.62	-0.010652	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	50	-30.98	-0.011948	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	-30	-12.50	-0.004655	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	-20	-34.62	-0.012894	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	-10	-29.05	-0.010819	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	0	-15.55	-0.005791	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	10	-29.40	-0.010950	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	20	-13.00	-0.004842	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	30	-21.67	-0.008071	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	40	-34.40	-0.012812	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	50	-15.46	-0.005758	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	-30	23.59	0.009423	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	-20	23.06	0.009211	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	-10	20.36	0.008133	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	0	13.33	0.005325	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	10	23.82	0.009515	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	20	9.63	0.003847	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	30	10.70	0.004274	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	40	16.62	0.006639	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	50	12.50	0.004993	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	-30	14.18	0.005469	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	-20	17.45	0.006730	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	-10	14.56	0.005615	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	0	10.99	0.004238	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	10	7.12	0.002746	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	20	25.42	0.009803	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	30	18.84	0.007266	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	40	13.18	0.005083	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	50	26.64	0.010274	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	-30	-33.96	-0.012660	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	-20	-26.11	-0.009733	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	-10	-12.07	-0.004500	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	0	16.09	0.005998	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	10	6.59	0.002457	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	20	22.90	0.008537	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	30	14.61	0.005446	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	40	5.36	0.001998	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	50	19.87	0.007407	±2.5	PASS

Band41	20MHz	QPSK	39750	100RB#0	NV	-30	-37.81	-0.015088	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-20	-40.90	-0.016321	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-10	-25.13	-0.010028	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	0	-20.83	-0.008312	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	10	-40.34	-0.016097	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	20	-24.75	-0.009876	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	30	-26.08	-0.010407	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	40	-27.88	-0.011125	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	50	-29.31	-0.011696	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-32.42	-0.012503	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-34.53	-0.013317	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-22.22	-0.008569	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-29.35	-0.011319	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-19.96	-0.007698	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-39.55	-0.015253	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-21.06	-0.008122	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-11.39	-0.004393	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-19.93	-0.007686	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-30	-25.13	-0.009377	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-20	-36.98	-0.013799	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-10	-18.78	-0.007007	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	0	-13.86	-0.005172	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	10	-32.13	-0.011989	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	20	-22.22	-0.008291	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	30	-32.94	-0.012291	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	40	-17.88	-0.006672	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	50	-27.17	-0.010138	±2.5	PASS