

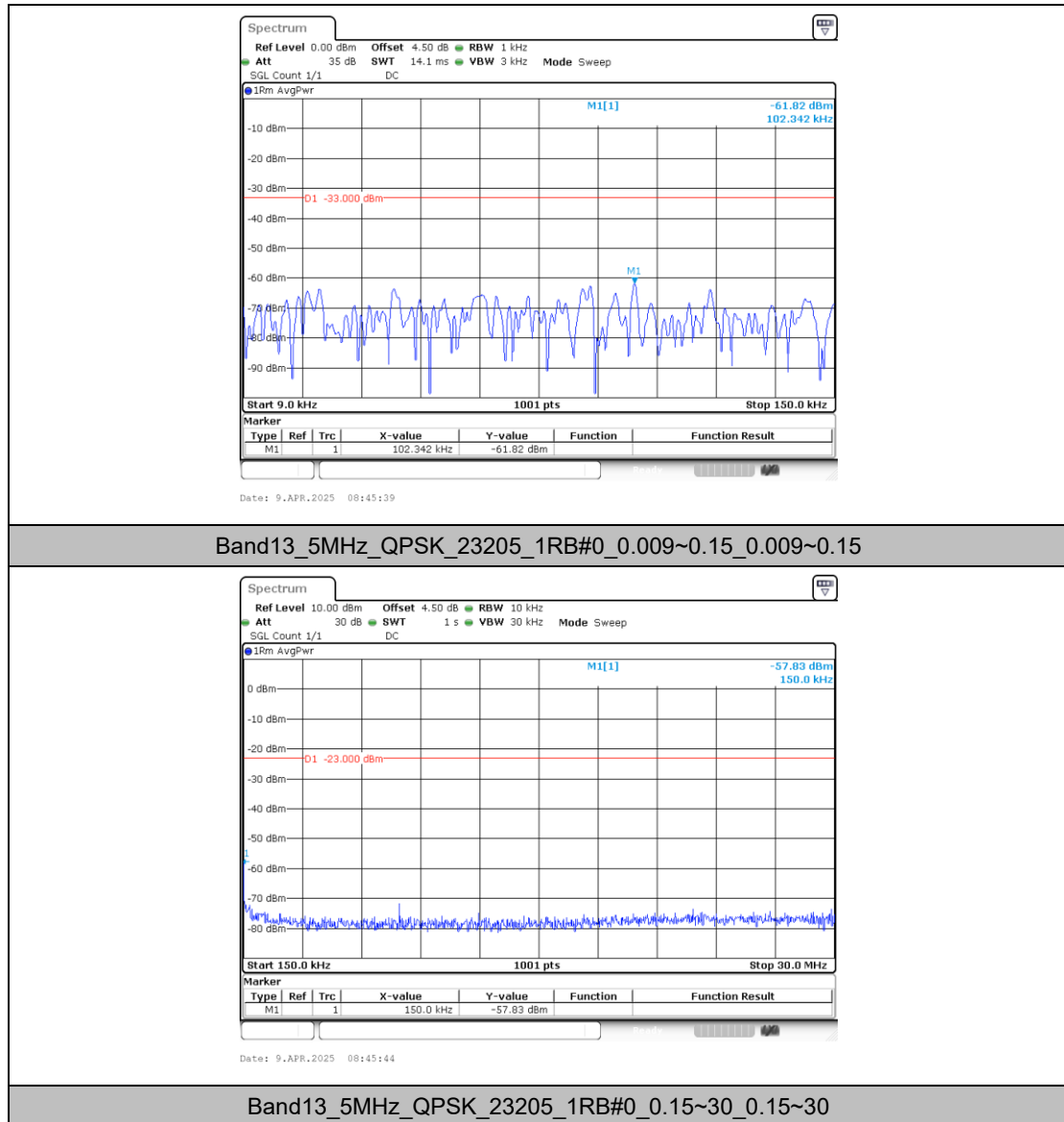
Appendix E: Conducted Spurious Emission

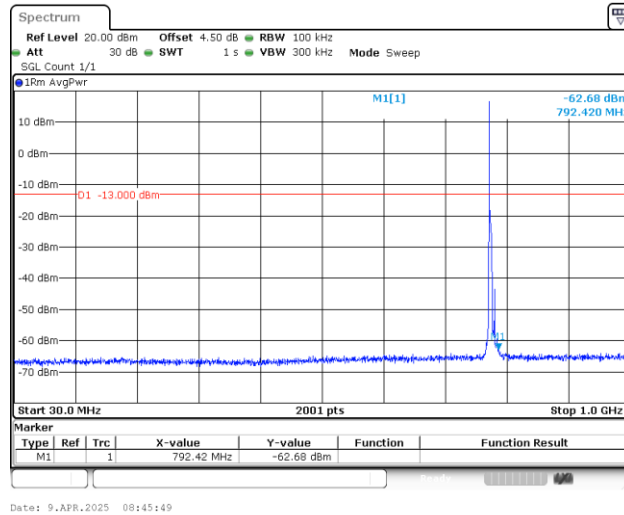
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-61.82	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-57.83	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-62.68	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-38.16	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-48.14	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-61.59	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-63.45	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-63.09	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-39.47	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-41.33	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-54.19	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-64.74	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-41.58	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-47.24	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-40.41	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-48.35	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-53.83	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-64.89	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-44.02	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-47.32	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-44.38	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-55.60	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-65.16	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-40.14	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-47.49	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-41.46	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-54.46	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-65.11	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-41.21	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-48.22	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-44.09	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-55.69	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-65.22	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-42.99	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-46.57	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-40.95	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-54.55	PASS

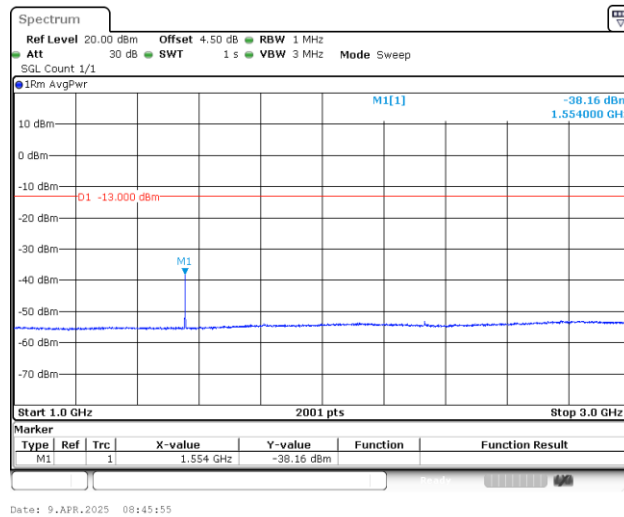
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-65.13	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-41.75	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-46.49	PASS

Test Graphs

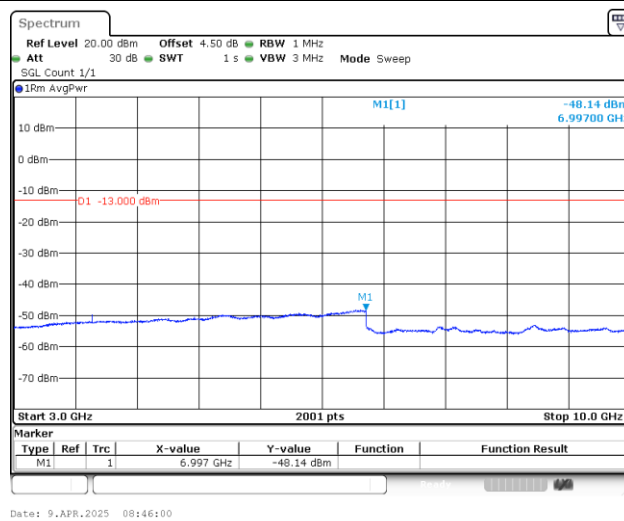




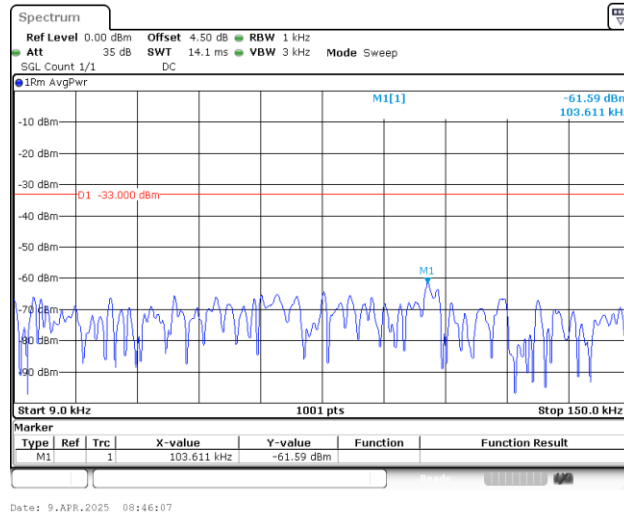
Band13_5MHz_QPSK_23205_1RB#0_30~1000_30~1000



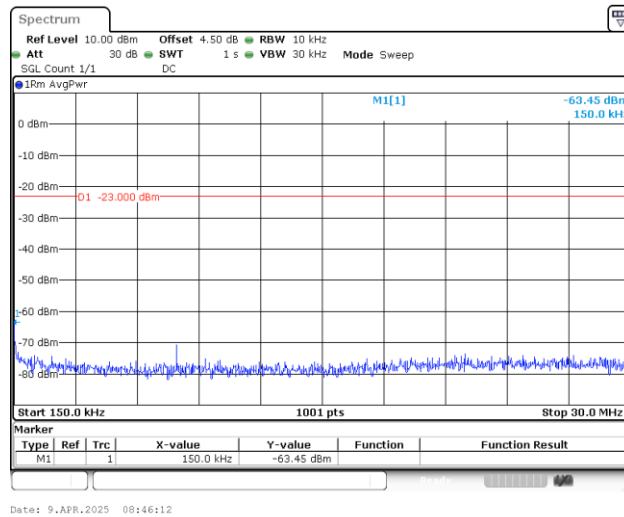
Band13_5MHz_QPSK_23205_1RB#0_1000~3000_1000~3000



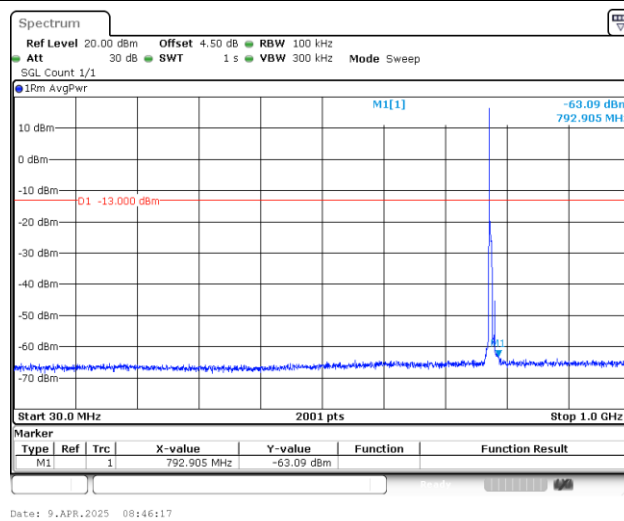
Band13_5MHz_QPSK_23205_1RB#0_3000~10000_3000~10000



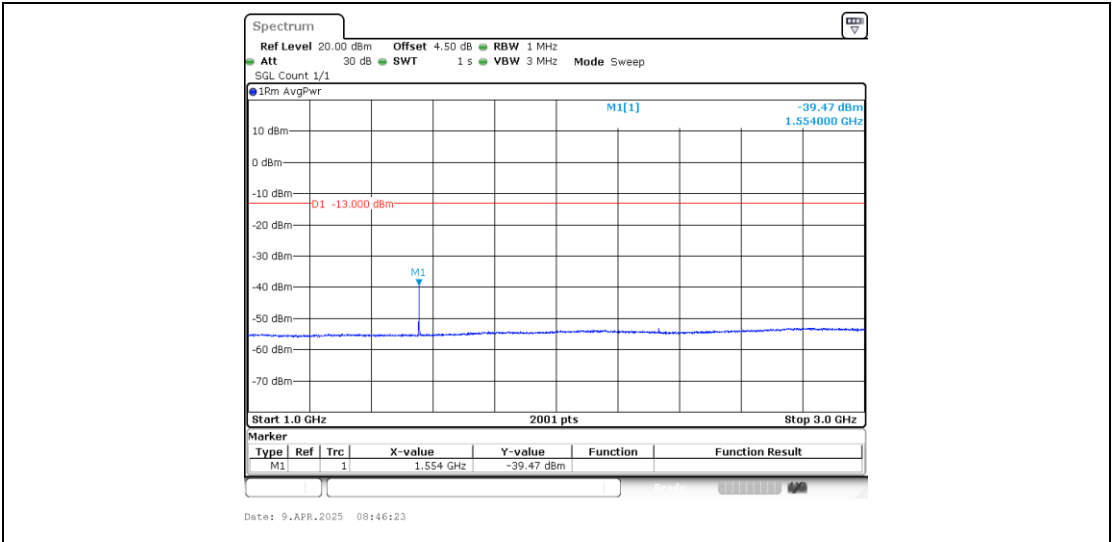
Band13_5MHz_16QAM_23205_1RB#0_0.009~0.15_0.009~0.15



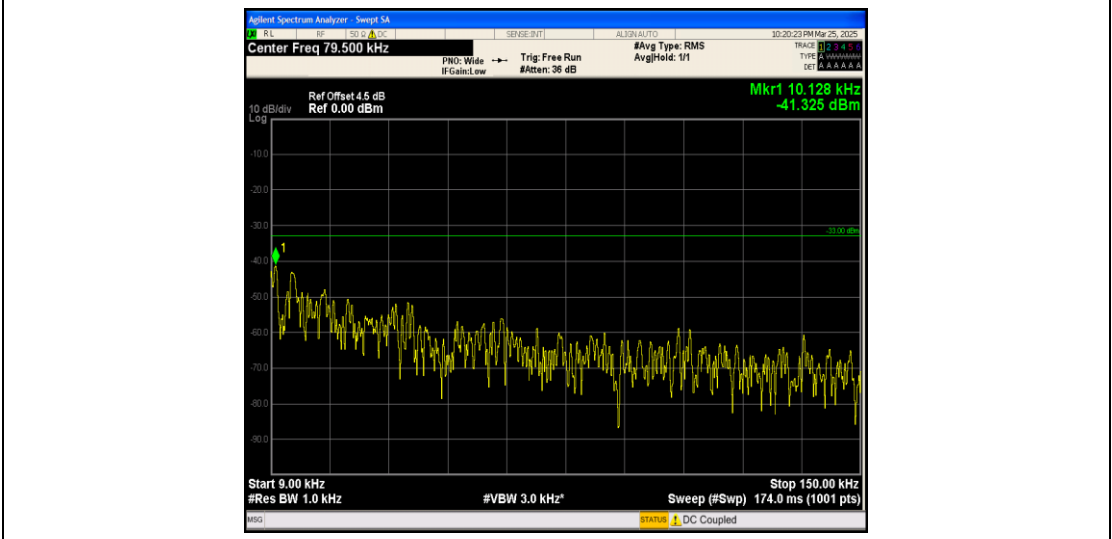
Band13_5MHz_16QAM_23205_1RB#0_0.15~30_0.15~30



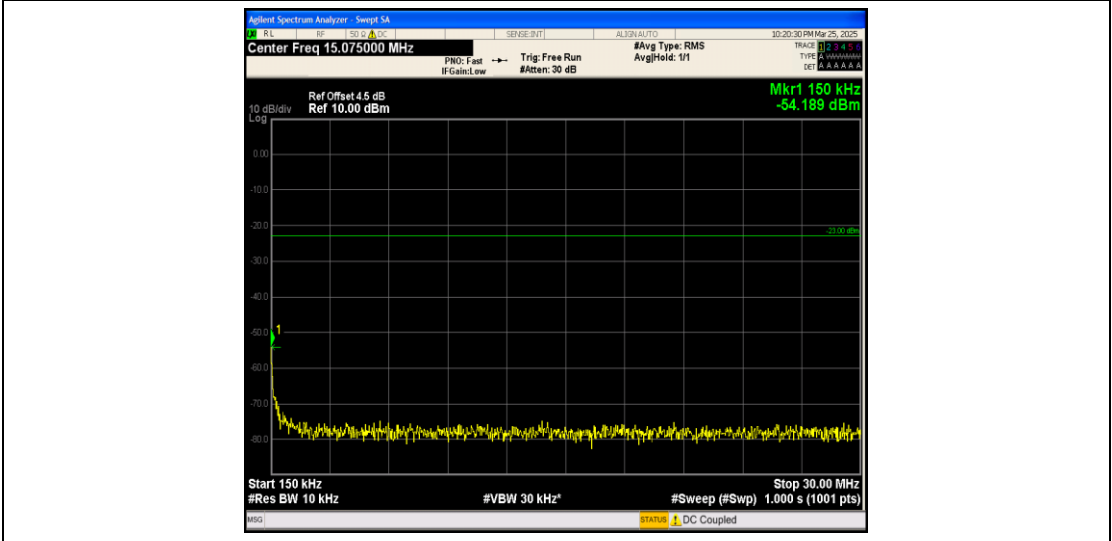
Band13_5MHz_16QAM_23205_1RB#0_30~1000_30~1000



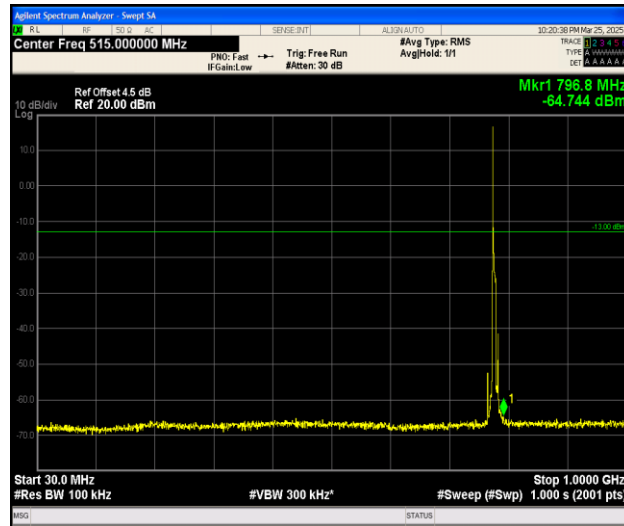
Band13_5MHz_16QAM_23205_1RB#0_1000~3000_1000~3000



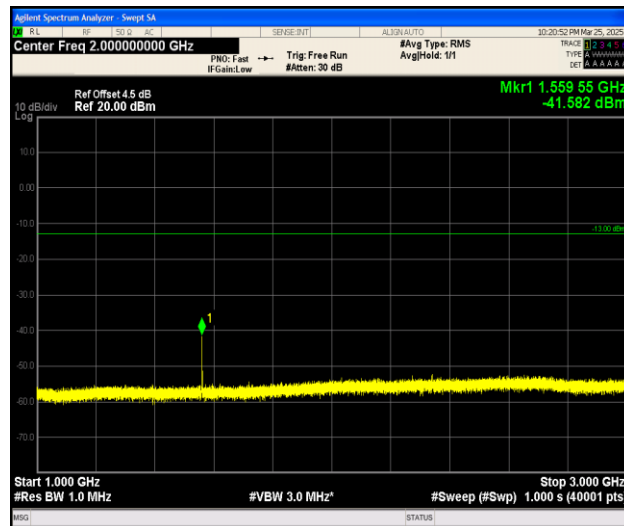
Band13_5MHz_QPSK_23230_1RB#0_0.009~0.15_0.009~0.15



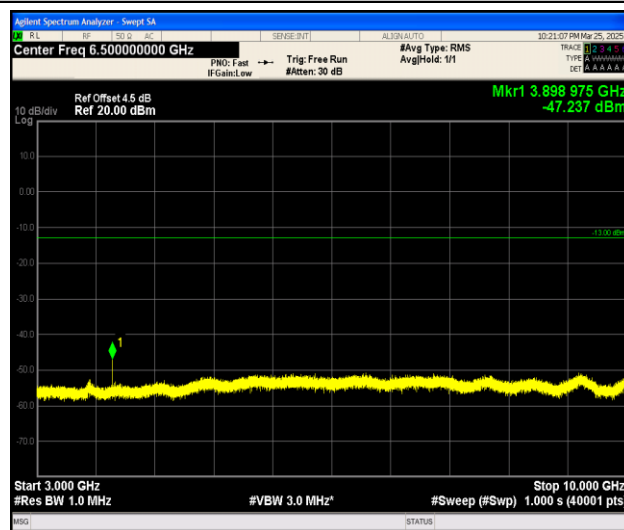
Band13_5MHz_QPSK_23230_1RB#0_0.15~30_0.15~30



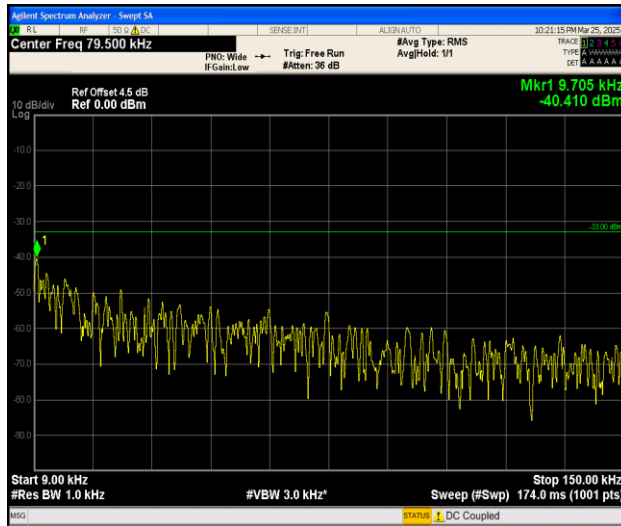
Band13_5MHz_QPSK_23230_1RB#0_30~1000_30~1000



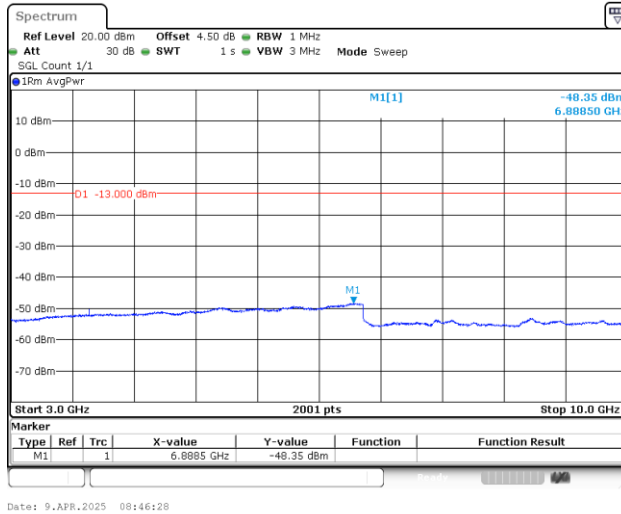
Band13_5MHz_QPSK_23230_1RB#0_1000~3000_1000~3000



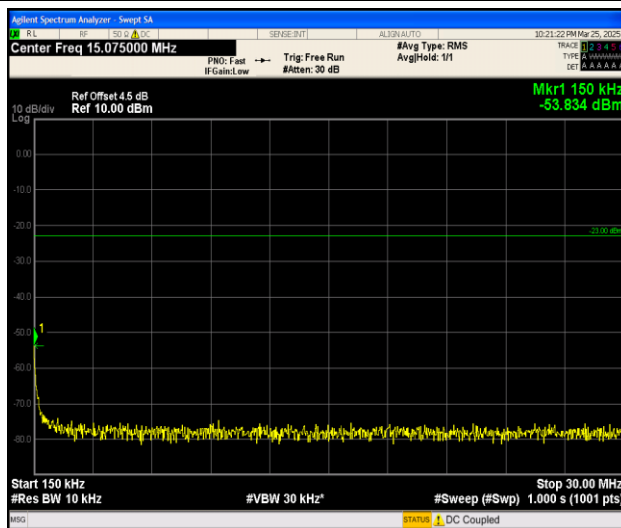
Band13_5MHz_QPSK_23230_1RB#0_3000~10000_3000~10000



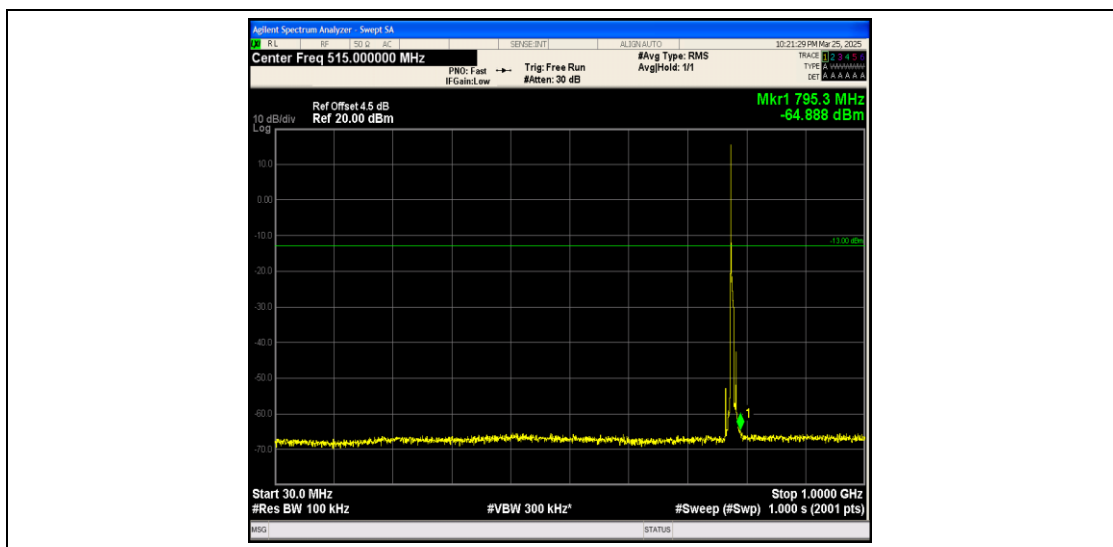
Band13_5MHz_16QAM_23230_1RB#0_0.009~0.15_0.009~0.15



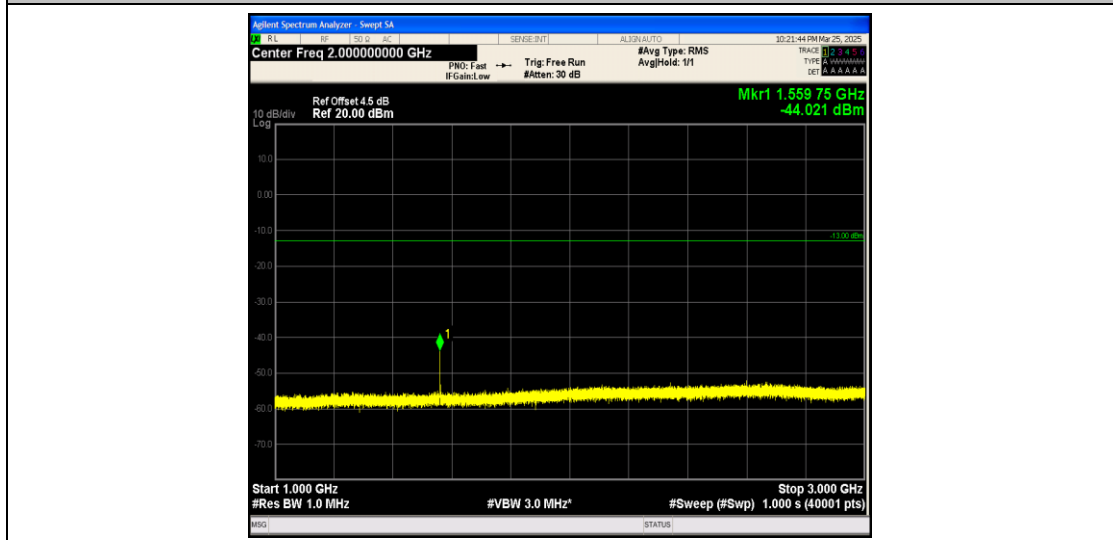
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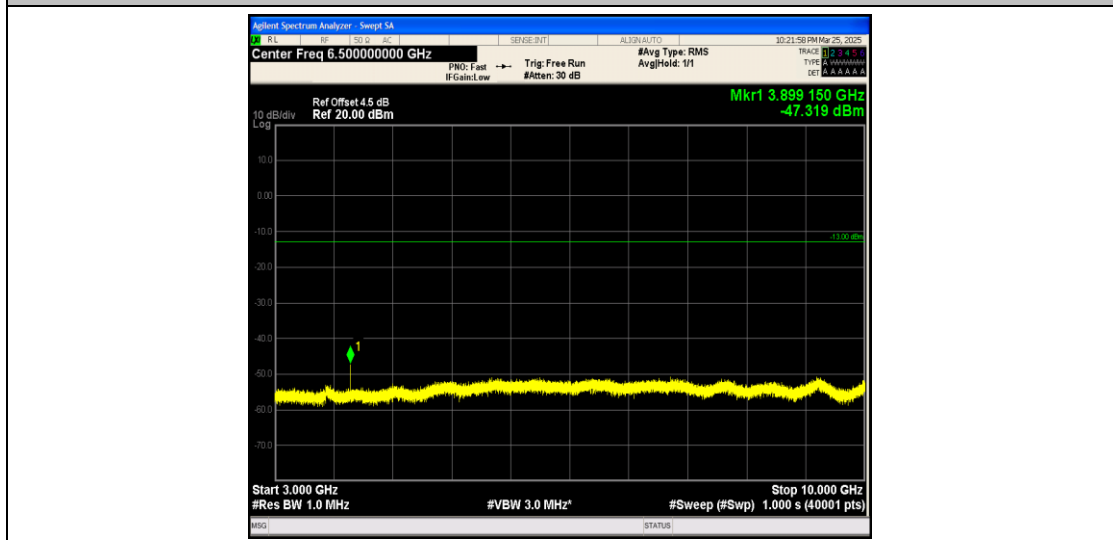
Band13_5MHz_16QAM_23230_1RB#0_0.15~30_0.15~30



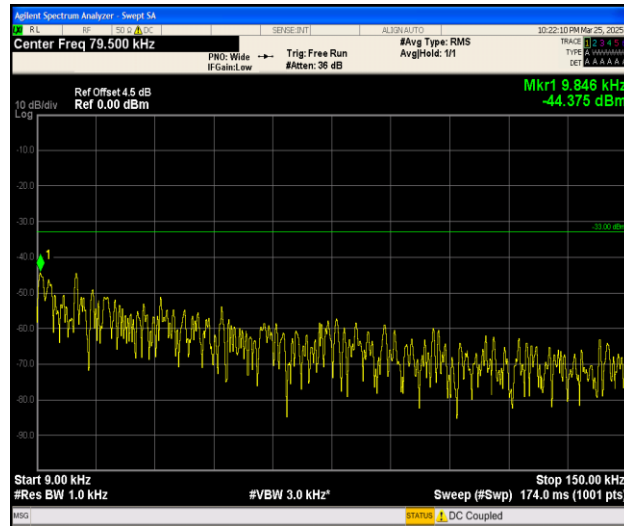
Band13_5MHz_16QAM_23230_1RB#0_30~1000_30~1000



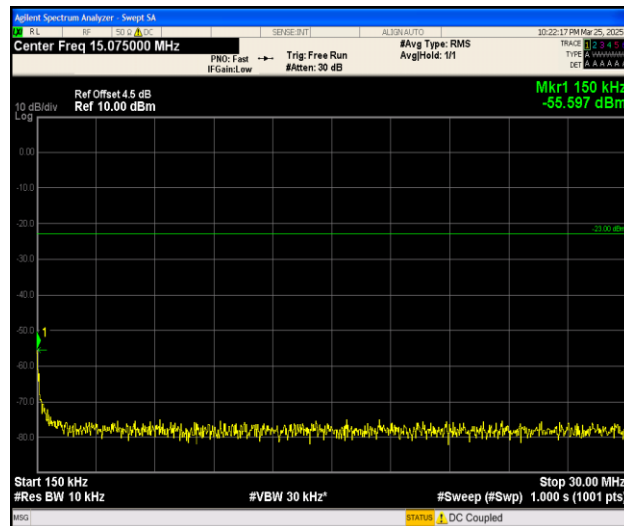
Band13_5MHz_16QAM_23230_1RB#0_1000~3000_1000~3000



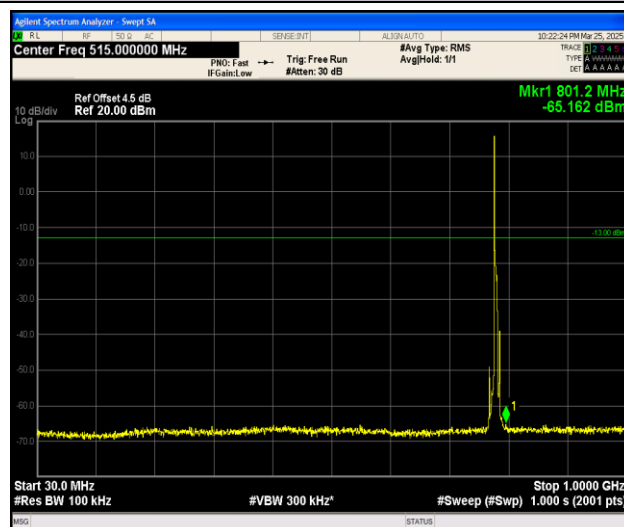
Band13_5MHz_16QAM_23230_1RB#0_3000~10000_3000~10000



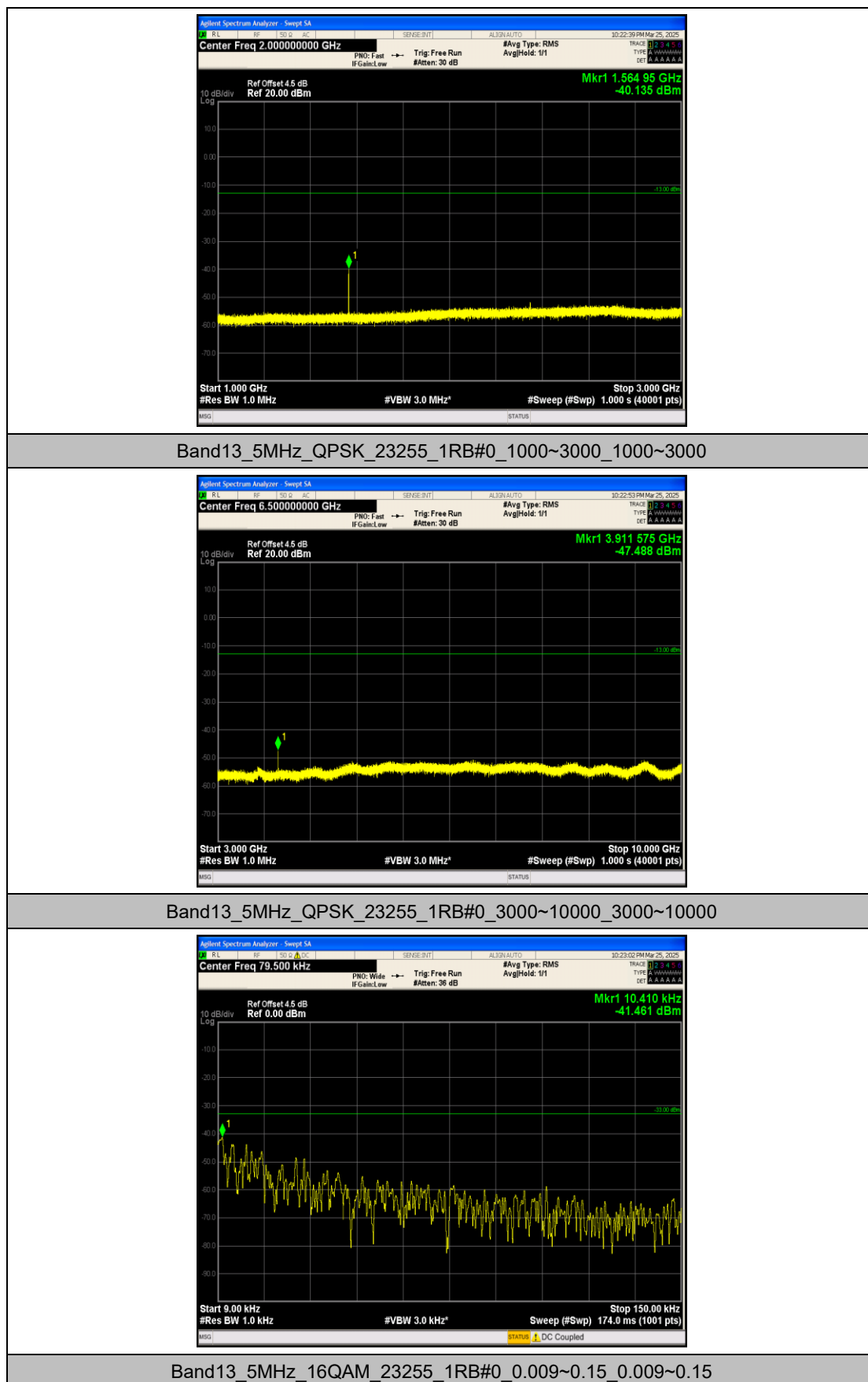
Band13_5MHz_QPSK_23255_1RB#0_0.009~0.15_0.009~0.15

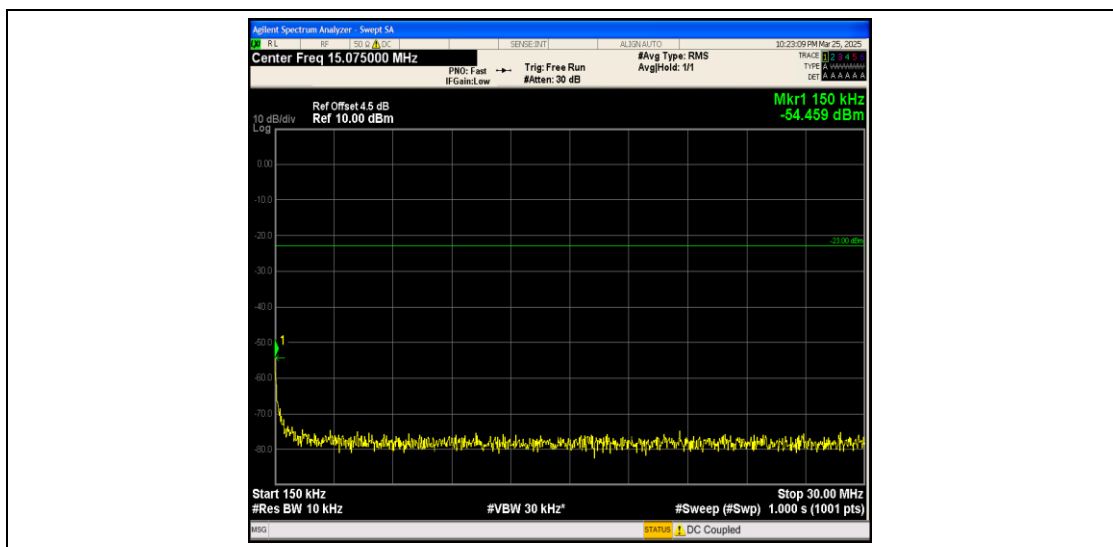


Band13_5MHz_QPSK_23255_1RB#0_0.15~30_0.15~30

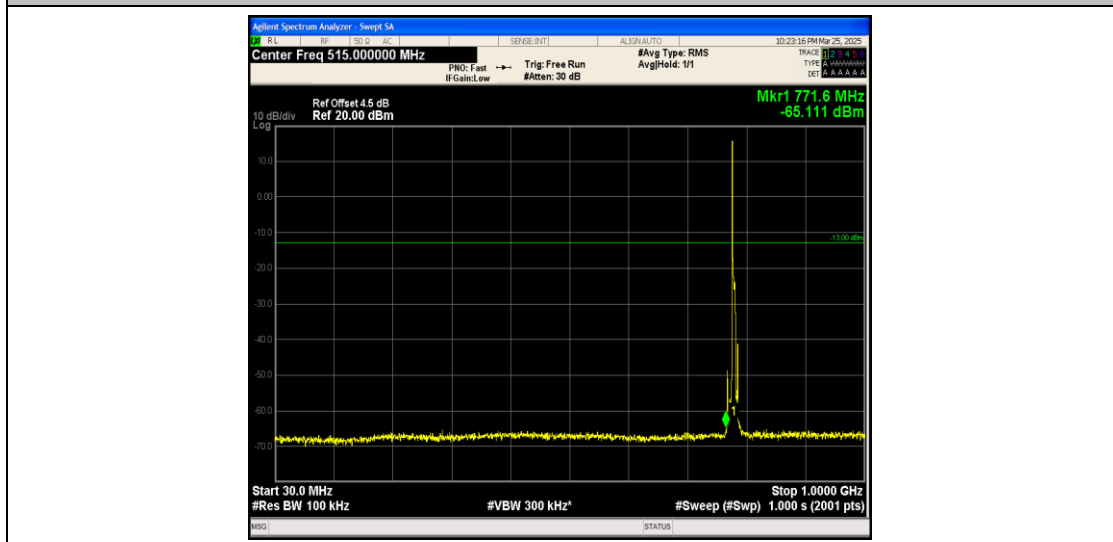


Band13_5MHz_QPSK_23255_1RB#0_30~1000_30~1000

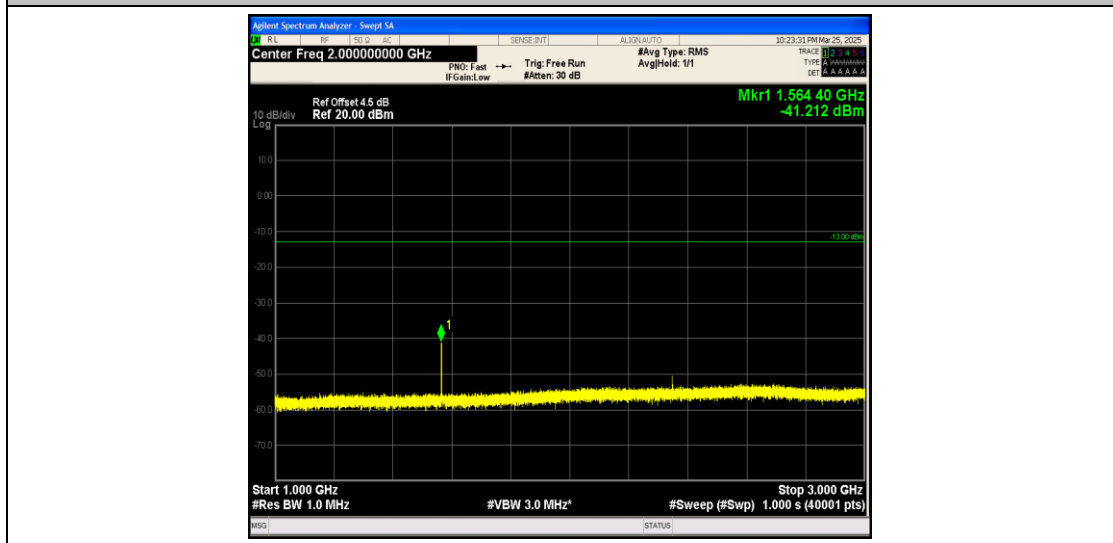




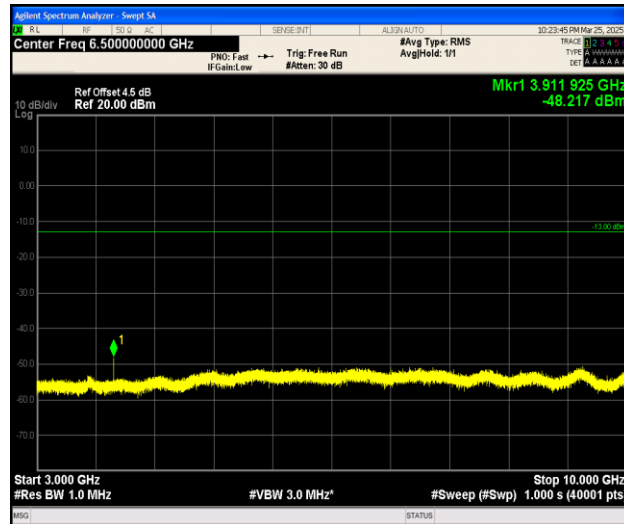
Band13_5MHz_16QAM_23255_1RB#0_0.15~30_0.15~30



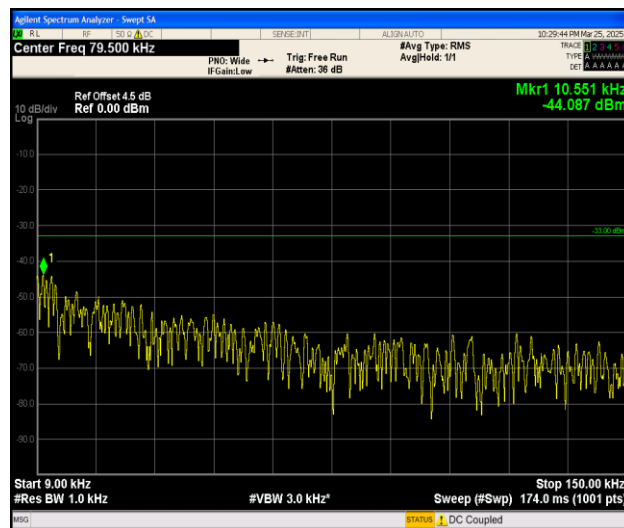
Band13_5MHz_16QAM_23255_1RB#0_30~1000_30~1000



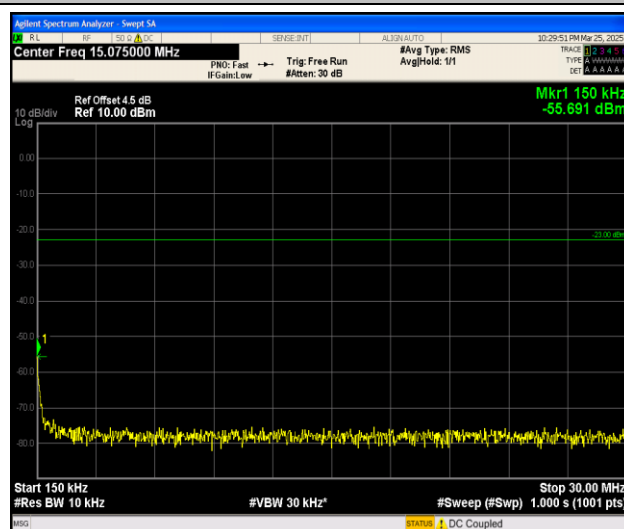
Band13_5MHz_16QAM_23255_1RB#0_1000~3000_1000~3000



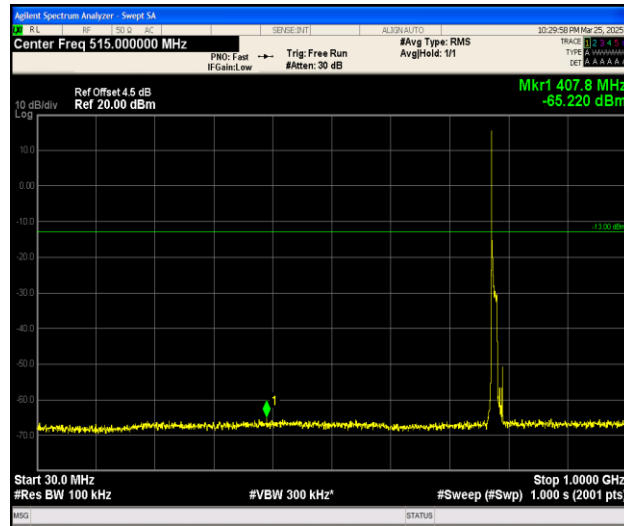
Band13_5MHz_16QAM_23255_1RB#0_3000~10000_3000~10000



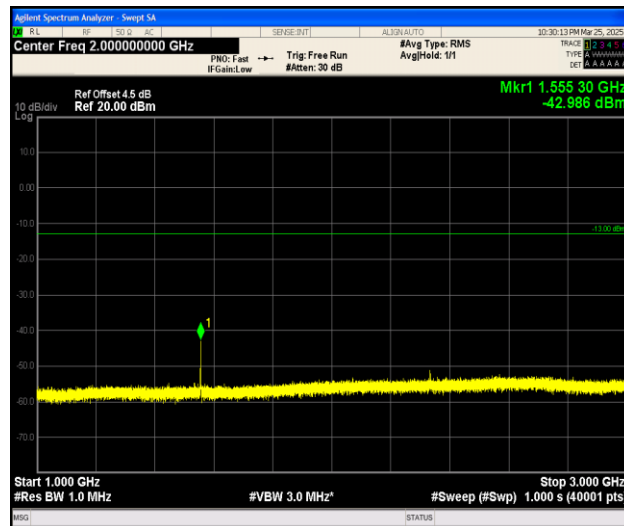
Band13_10MHz_QPSK_23230_1RB#0_0.009~0.15_0.009~0.15



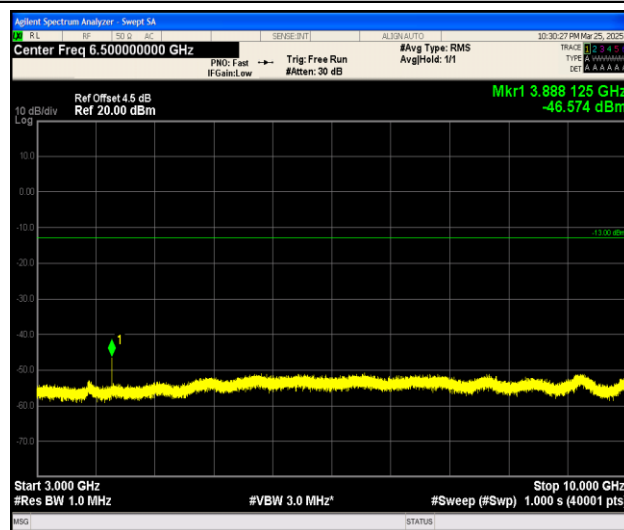
Band13_10MHz_QPSK_23230_1RB#0_0.15~30_0.15~30



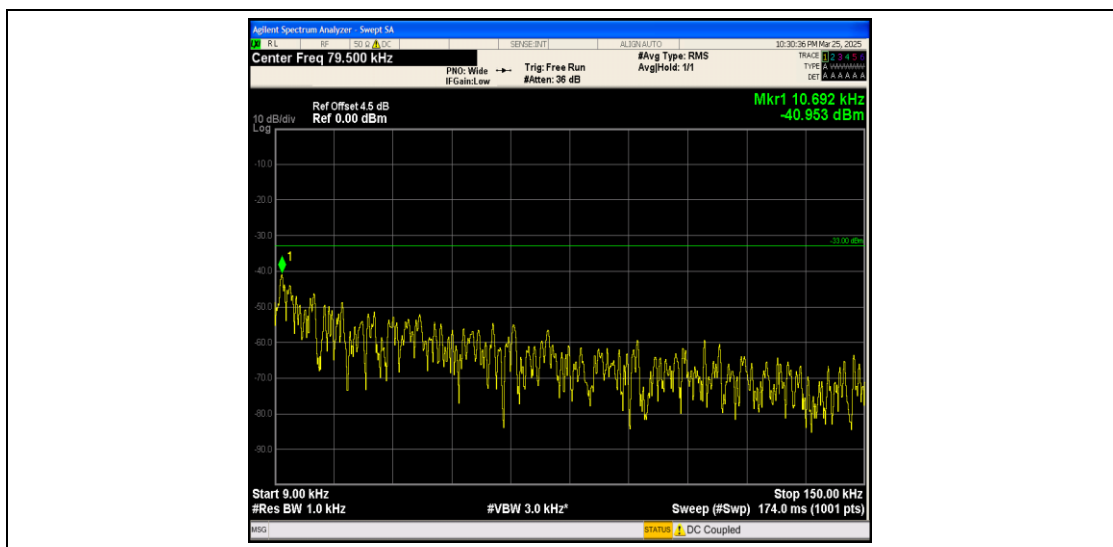
Band13_10MHz_QPSK_23230_1RB#0_30~1000_30~1000



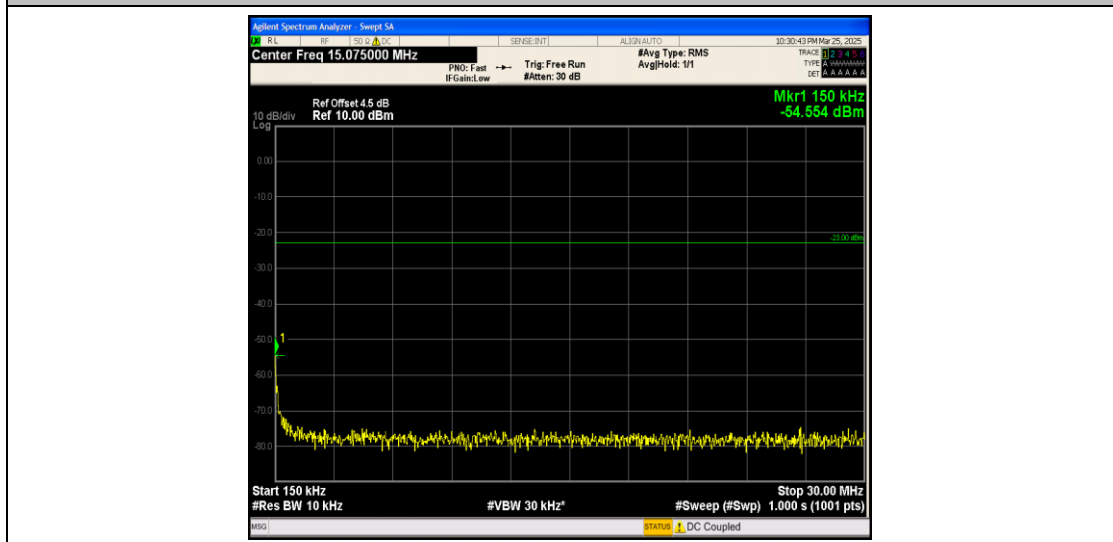
Band13_10MHz_QPSK_23230_1RB#0_1000~3000_1000~3000



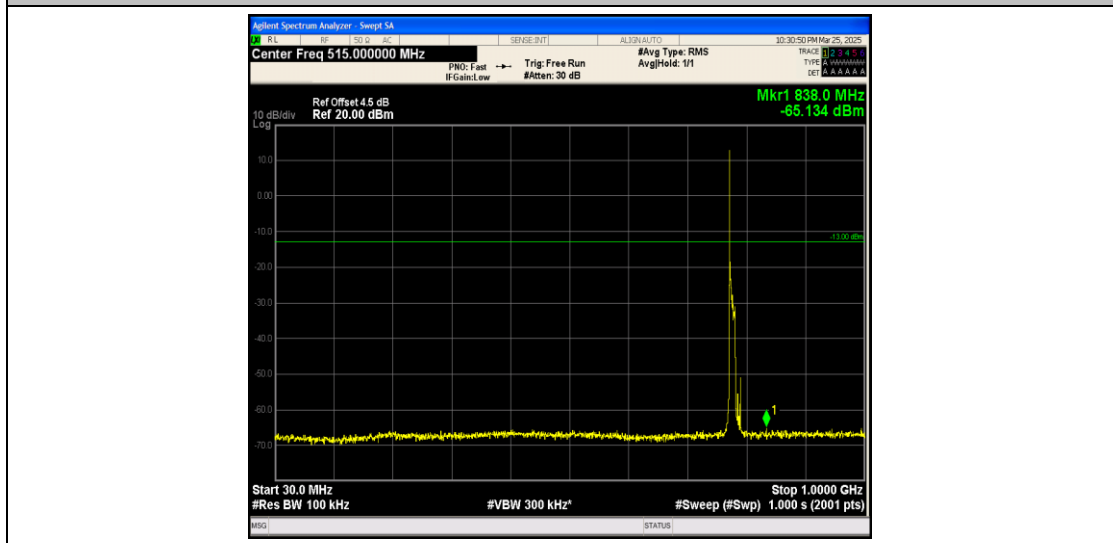
Band13_10MHz_QPSK_23230_1RB#0_3000~10000_3000~10000



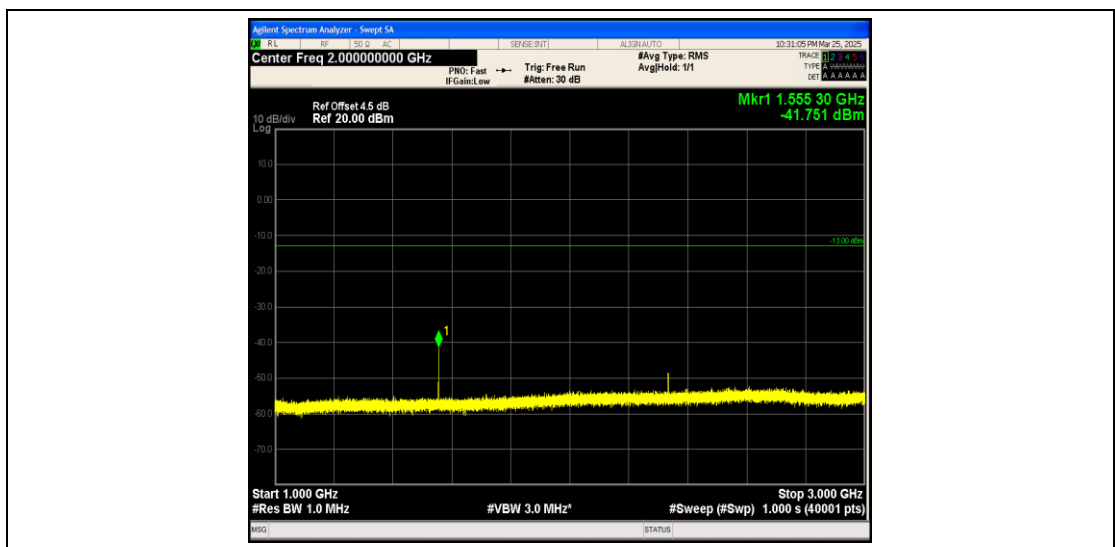
Band13_10MHz_16QAM_23230_1RB#0_0.009~0.15_0.009~0.15



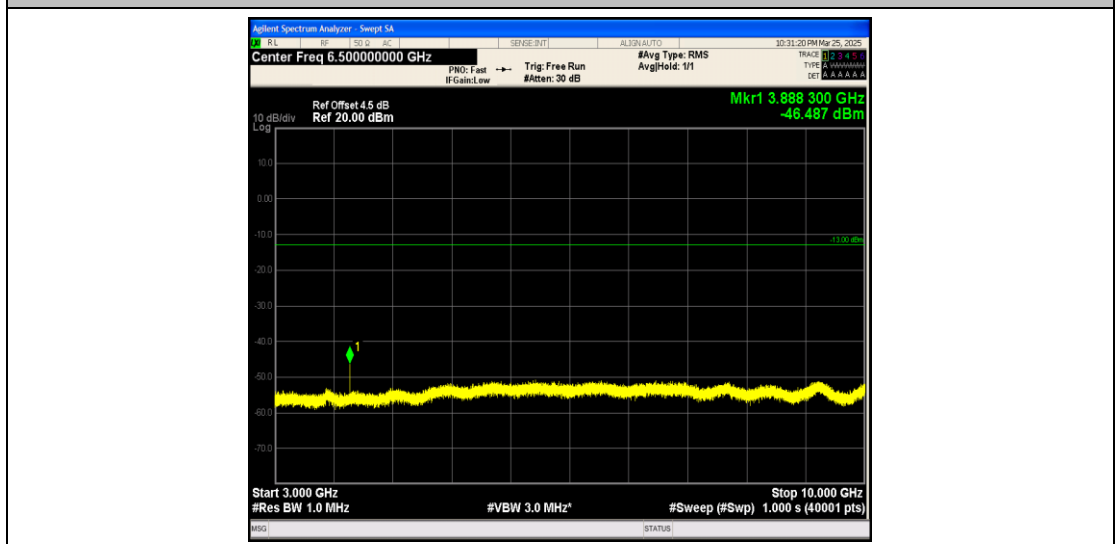
Band13_10MHz_16QAM_23230_1RB#0_0.15~30_0.15~30



Band13_10MHz_16QAM_23230_1RB#0_30~1000_30~1000



Band13_10MHz_16QAM_23230_1RB#0_1000~3000_1000~3000



Band13_10MHz_16QAM_23230_1RB#0_3000~10000_3000~10000

Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	VN	NT	-13.28	-0.017037	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VL	NT	-19.43	-0.024926	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VH	NT	-23.56	-0.030225	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VN	NT	16.69	0.021411	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VL	NT	13.16	0.016883	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VH	NT	-2.53	-0.003246	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VN	NT	9.16	0.011714	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VL	NT	16.04	0.020512	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VH	NT	37.69	0.048197	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VN	NT	25.09	0.032084	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VL	NT	23.07	0.029501	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VH	NT	22.70	0.029028	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VN	NT	7.57	0.009649	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VL	NT	3.35	0.004270	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VH	NT	27.39	0.034914	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VN	NT	-11.64	-0.014837	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VL	NT	-15.68	-0.019987	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VH	NT	-26.72	-0.034060	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-6.65	-0.008504	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-10.50	-0.013427	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	3.86	0.004936	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	-26.32	-0.033657	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	-38.51	-0.049246	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	-13.13	-0.016790	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	NV	-30	-21.87	-0.028056	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	-20	-17.58	-0.022553	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	-10	-11.42	-0.014650	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	0	-7.15	-0.009173	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	10	4.01	0.005144	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	20	6.07	0.007787	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	30	8.63	0.011071	±2.5	PASS

Band13	5MHz	QPSK	23205	25RB#0	NV	40	7.90	0.010135	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	50	18.40	0.023605	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-30	-13.22	-0.016960	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-20	-17.15	-0.022001	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-10	-14.36	-0.018422	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	0	-15.31	-0.019641	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	10	-9.57	-0.012277	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	20	-7.34	-0.009416	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	30	7.32	0.009391	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	40	2.32	0.002976	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	50	10.56	0.013547	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-30	6.47	0.008274	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-20	26.89	0.034386	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-10	43.85	0.056074	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	0	-4.88	-0.006240	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	10	7.41	0.009476	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	20	11.67	0.014923	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	30	16.64	0.021279	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	40	21.97	0.028095	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	50	21.46	0.027442	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-30	-3.88	-0.004962	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-20	-12.04	-0.015396	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-10	-39.18	-0.050102	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	0	-53.70	-0.068670	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	10	-10.17	-0.013005	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	20	-14.22	-0.018184	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	30	-22.39	-0.028632	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	40	-27.77	-0.035512	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	50	-27.67	-0.035384	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-30	6.29	0.008018	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-20	33.10	0.042192	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-10	52.00	0.066284	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	0	13.75	0.017527	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	10	13.53	0.017247	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	20	-26.94	-0.034340	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	30	-3.93	-0.005010	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	40	-30.73	-0.039171	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	50	-49.38	-0.062945	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-30	4.12	0.005252	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-20	-9.73	-0.012403	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-10	-25.76	-0.032836	±2.5	PASS

Band13	5MHz	16QAM	23255	25RB#0	NV	0	-32.92	-0.041963	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	10	-41.50	-0.052900	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	20	-43.87	-0.055921	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	30	-50.28	-0.064092	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	40	-5.19	-0.006616	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	50	-10.03	-0.012785	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	17.62	0.022532	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	33.50	0.042839	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	45.95	0.058760	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	3.32	0.004246	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	6.98	0.008926	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	8.47	0.010831	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-7.98	-0.010205	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-17.29	-0.022110	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-29.01	-0.037097	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	-46.19	-0.059066	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	-19.98	-0.025550	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-10	-40.21	-0.051419	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	-49.72	-0.063581	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	6.31	0.008069	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	-4.82	-0.006164	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	-4.05	-0.005179	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	-2.59	-0.003312	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-8.94	-0.011432	±2.5	PASS