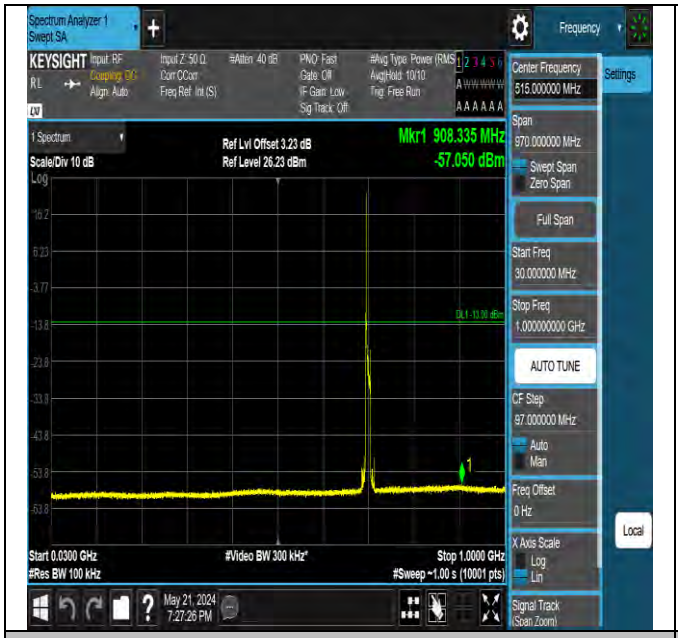
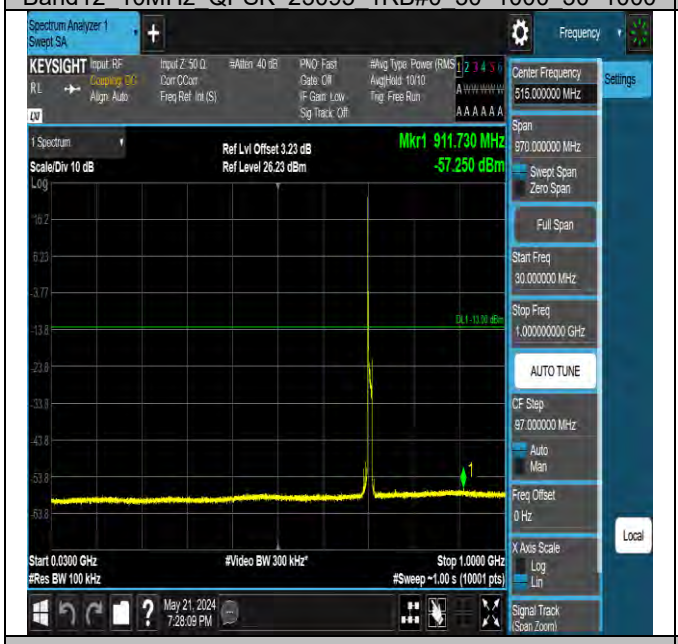


Band12_10MHz_QPSK_23095_1RB#0_30~1000_30~1000

Band12_10MHz_QPSK_23095_1RB#0_1000~10000_1000~10000



Band12_10MHz_QPSK_23130_1RB#0_30~1000_30~1000

Band12_10MHz_QPSK_23130_1RB#0_1000~10000_1000~10000

FREQUENCY STABILITY

Test Result

Voltage												
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band12	10MHz	QPSK	23060	50RB #0	VN	NT	901.31	1.28	699.53568	---	699-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	VL	NT	731.07	1.04	699.53114	---	699-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	VH	NT	602.51	0.86	699.5353	---	699-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	VN	NT	936.11	1.32	---	715.47693	699-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	VL	NT	700.66	0.99	---	715.46878	699-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	VH	NT	564.75	0.79	---	715.46638	699-716	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band12	10MHz	QPSK	23060	50RB #0	NV	-30	913.44	1.30	699.52975	---	699-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	NV	-20	749.71	1.06	699.52915	---	699-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	NV	-10	611.04	0.87	699.52797	---	699-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	NV	0	555.19	0.79	699.5256	---	699-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	NV	10	442.25	0.63	699.533	---	699-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	NV	20	302.50	0.43	699.53253	---	699-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	NV	30	291.61	0.41	699.54053	---	699-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	NV	40	224.63	0.32	699.53022	---	699-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	NV	50	142.61	0.20	699.53057	---	699-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	NV	-30	908.98	1.28	---	715.47075	699-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	NV	-20	650.60	0.92	---	715.47722	699-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	NV	-10	612.07	0.86	---	715.4714	699-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	NV	0	552.64	0.78	---	715.47235	699-716	PASS

Band12	10MHz	QPSK	23130	50RB #0	NV	10	441.31	0.62	---	715.47699	699-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	NV	20	159.86	0.22	---	715.47265	699-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	NV	30	103.61	0.15	---	715.46859	699-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	NV	40	-88.25	-0.12	---	715.47695	699-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	NV	50	908.98	1.28	---	715.47496	699-716	PASS

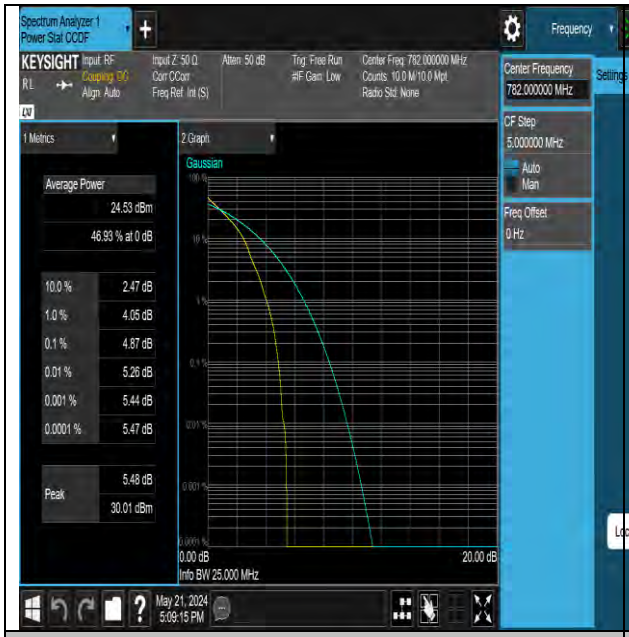
LTE BAND13

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

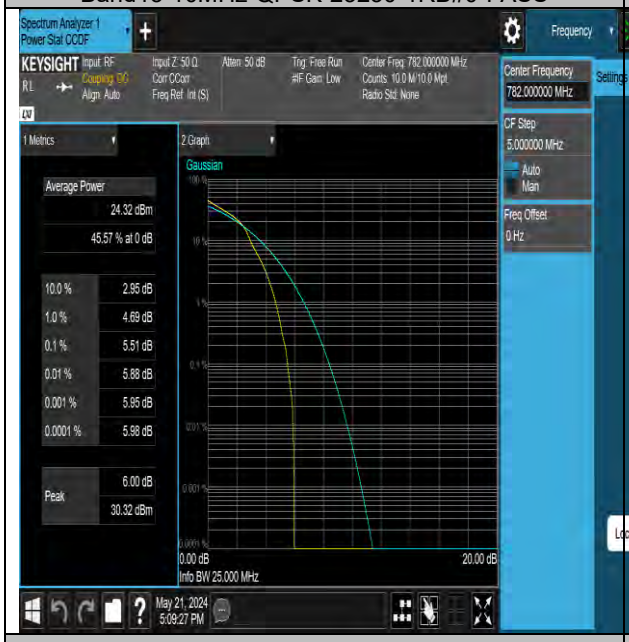
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	1RB#0	4.87	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.64	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.51	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.36	13	PASS

Test Graphs



Band13-10MHz-QPSK-23230-1RB#0-PASS

Band13-10MHz-QPSK-23230-50RB#0-PASS



Band13-10MHz-16QAM-23230-1RB#0-PASS

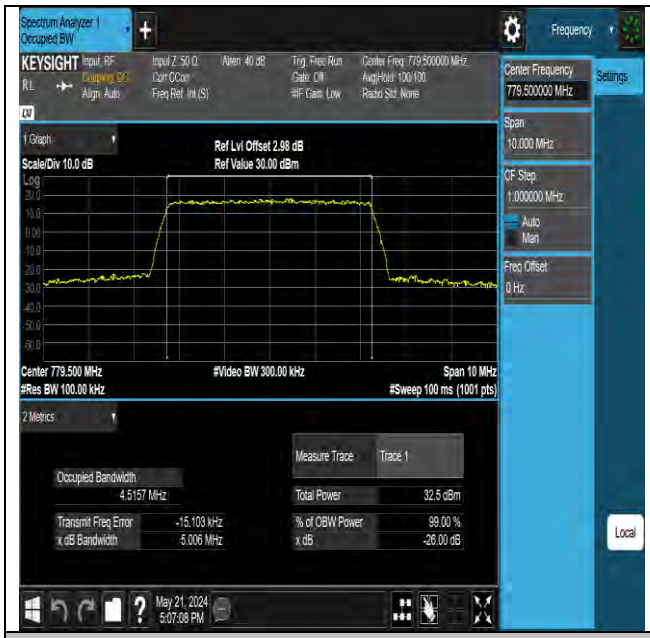
Band13-10MHz-16QAM-23230-50RB#0-PASS

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

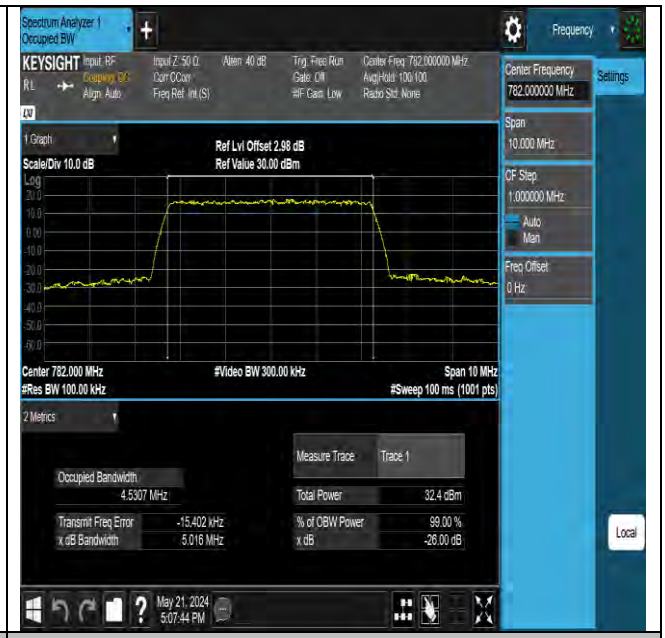
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5157	5.006	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5307	5.016	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5071	4.994	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.4952	4.981	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5045	4.996	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.4990	4.991	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.0195	9.906	PASS
Band13	10MHz	16QAM	23230	50RB#0	9.0079	9.911	PASS

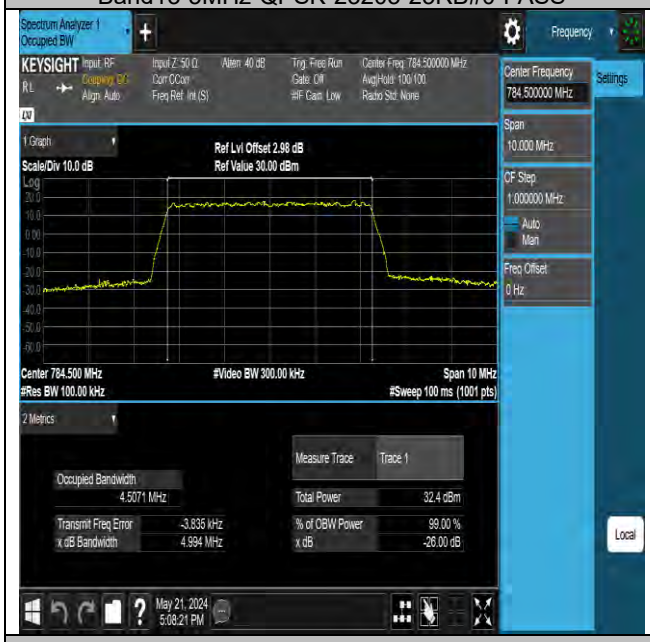
Test Graphs



Band13-5MHz-QPSK-23205-25RB#0-PASS



Band13-5MHz-QPSK-23230-25RB#0-PASS

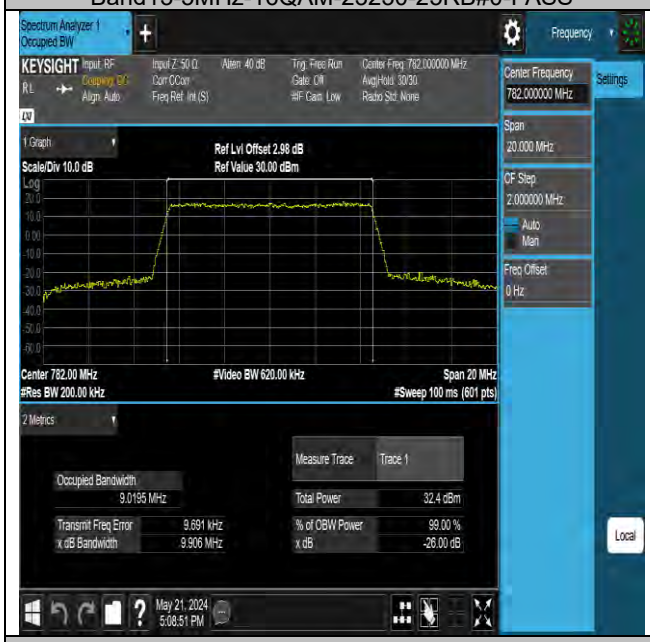


Band13-5MHz-QPSK-23255-25RB#0-PASS

Band13-5MHz-16QAM-23205-25RB#0-PASS

Band13-5MHz-16QAM-23230-25RB#0-PASS

Band13-5MHz-16QAM-23255-25RB#0-PASS



Band13-10MHz-QPSK-23230-50RB#0-PASS

Band13-10MHz-16QAM-23230-50RB#0-PASS

BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-63.32	PASS
Band13	5MHz	QPSK	23205	25RB#0	-46.09	PASS
Band13	5MHz	QPSK	23255	1RB#24	-67.83	PASS
Band13	5MHz	QPSK	23255	25RB#0	-55.54	PASS
Band13	5MHz	16QAM	23205	1RB#0	-65.67	PASS
Band13	5MHz	16QAM	23205	25RB#0	-47.31	PASS
Band13	5MHz	16QAM	23255	1RB#24	-66.98	PASS
Band13	5MHz	16QAM	23255	25RB#0	-35.54	PASS
Band13	10MHz	QPSK	23230	1RB#0	-57.81	PASS
Band13	10MHz	QPSK	23230	1RB#49	-61.88	PASS
Band13	10MHz	QPSK	23230	50RB#0	-49.95	PASS
Band13	10MHz	16QAM	23230	1RB#0	-55.12	PASS
Band13	10MHz	16QAM	23230	1RB#49	-63.63	PASS
Band13	10MHz	16QAM	23230	50RB#0	-49.55	PASS

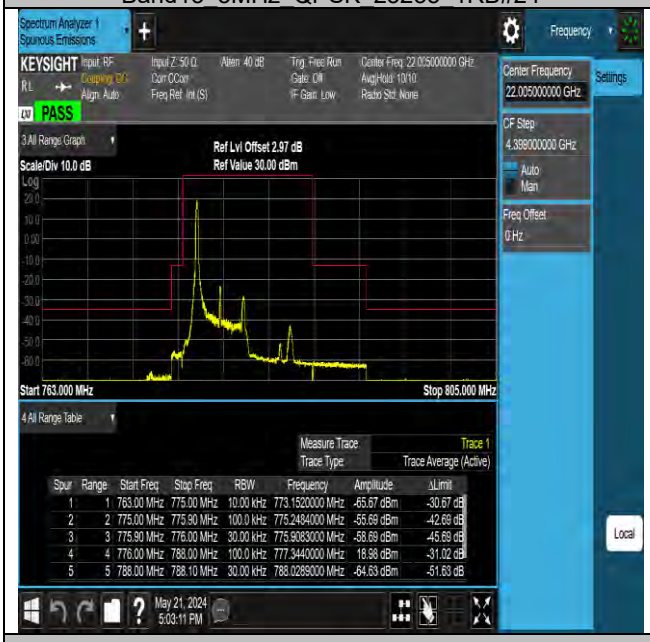
Test Graphs

Band13_5MHz_QPSK_23205_1RB#0

Band13_5MHz_QPSK_23205_25RB#0

Band13_5MHz_QPSK_23255_1RB#24

Band13_5MHz_QPSK_23255_25RB#0



Band13_5MHz_16QAM_23205_1RB#0

Band13_5MHz_16QAM_23205_25RB#0

Band13_5MHz_16QAM_23255_1RB#24

Band13_5MHz_16QAM_23255_25RB#0

Band13_10MHz_QPSK_23230_1RB#0

Band13_10MHz_QPSK_23230_1RB#49

Band13_10MHz_QPSK_23230_50RB#0

Band13_10MHz_16QAM_23230_1RB#0

Band13_10MHz_16QAM_23230_1RB#49

Band13_10MHz_16QAM_23230_50RB#0

CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-57.34	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~10000	-38.21	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-57.32	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~10000	-38.22	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-57.31	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~10000	-38.32	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-57.21	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~10000	-38.26	PASS

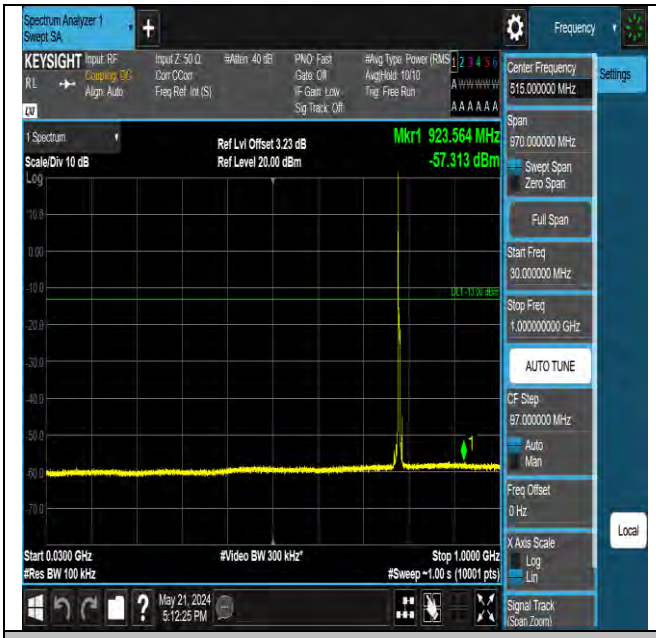
Test Graphs

Band13_5MHz_QPSK_23205_1RB#0_30~1000_30~1000

Band13_5MHz_QPSK_23205_1RB#0_1000~10000_1000~10000

Band13_5MHz_QPSK_23230_1RB#0_30~1000_30~1000

Band13_5MHz_QPSK_23230_1RB#0_1000~10000_1000~10000



Band13_5MHz_QPSK_23255_1RB#0_30~1000_30~1000

Band13_5MHz_QPSK_23255_1RB#0_1000~10000_1000~10000

Band13_10MHz_QPSK_23230_1RB#0_30~1000_30~1000

Band13_10MHz_QPSK_23230_1RB#0_1000~10000_1000~10000

FREQUENCY STABILITY

Test Result

Voltage												
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB #0	VN	NT	965.97	1.24	777.25244	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	VL	NT	891.49	1.14	777.25647	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	VH	NT	859.30	1.10	777.25315	---	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	VN	NT	885.90	1.13	---	786.73278	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	VL	NT	765.29	0.98	---	786.72959	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	VH	NT	538.82	0.69	---	786.73178	777-787	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB #0	NV	-30	966.72	1.24	777.25685	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	-20	902.13	1.16	777.2547	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	-10	913.23	1.17	777.25456	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	0	758.29	0.97	777.25313	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	10	719.79	0.92	777.2534	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	20	588.70	0.76	777.25547	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	30	454.94	0.58	777.26681	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	40	403.28	0.52	777.27033	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	50	248.91	0.32	777.27115	---	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	-30	875.80	1.12	---	786.73493	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	-20	845.50	1.08	---	786.73496	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	-10	863.17	1.10	---	786.73436	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	0	843.98	1.08	---	786.73523	777-787	PASS

Band13	5MHz	QPSK	23255	25RB #0	NV	10	766.63	0.98	---	786.73412	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	20	701.76	0.89	---	786.73249	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	30	553.31	0.71	---	786.73388	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	40	471.11	0.60	---	786.73354	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	50	875.80	1.12	---	786.73099	777-787	PASS

---END---