

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	22.69	19.24	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.90	19.45	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.82	19.37	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.53	18.08	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.81	19.36	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.77	19.32	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.96	19.51	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.78	18.33	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.84	19.39	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.64	19.19	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.71	19.26	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.73	18.28	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.96	18.51	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.21	18.76	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.80	18.35	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.58	17.13	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.36	18.91	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.99	18.54	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.08	18.63	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.81	17.36	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.89	18.44	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.97	18.52	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.11	18.66	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.86	17.41	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.95	19.5	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	22.89	19.44	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.71	19.26	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.79	18.34	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.85	19.4	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.95	19.5	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.79	19.34	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.75	18.3	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.80	19.35	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	22.91	19.46	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.89	19.44	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.69	18.24	34.77	PASS

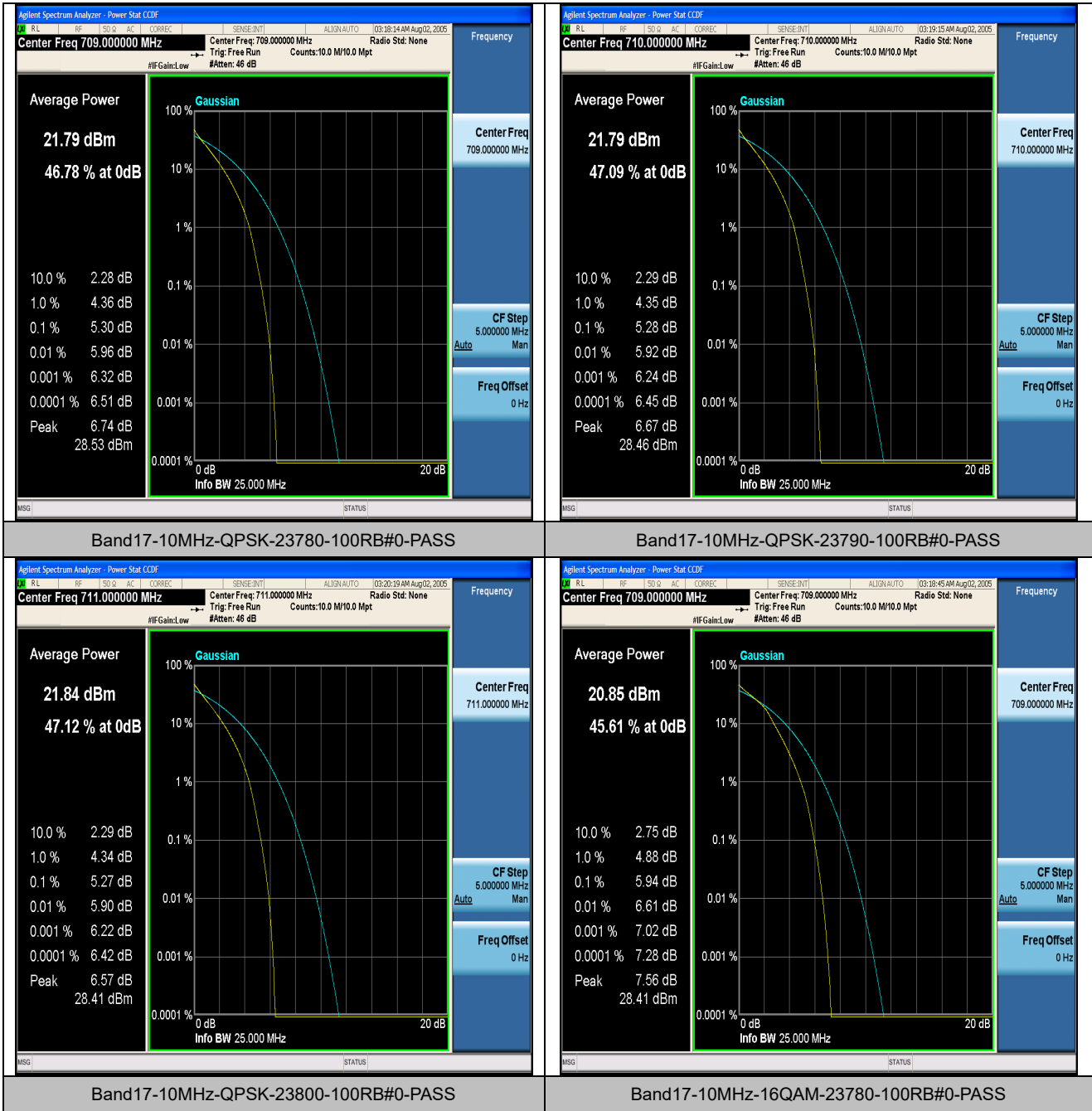


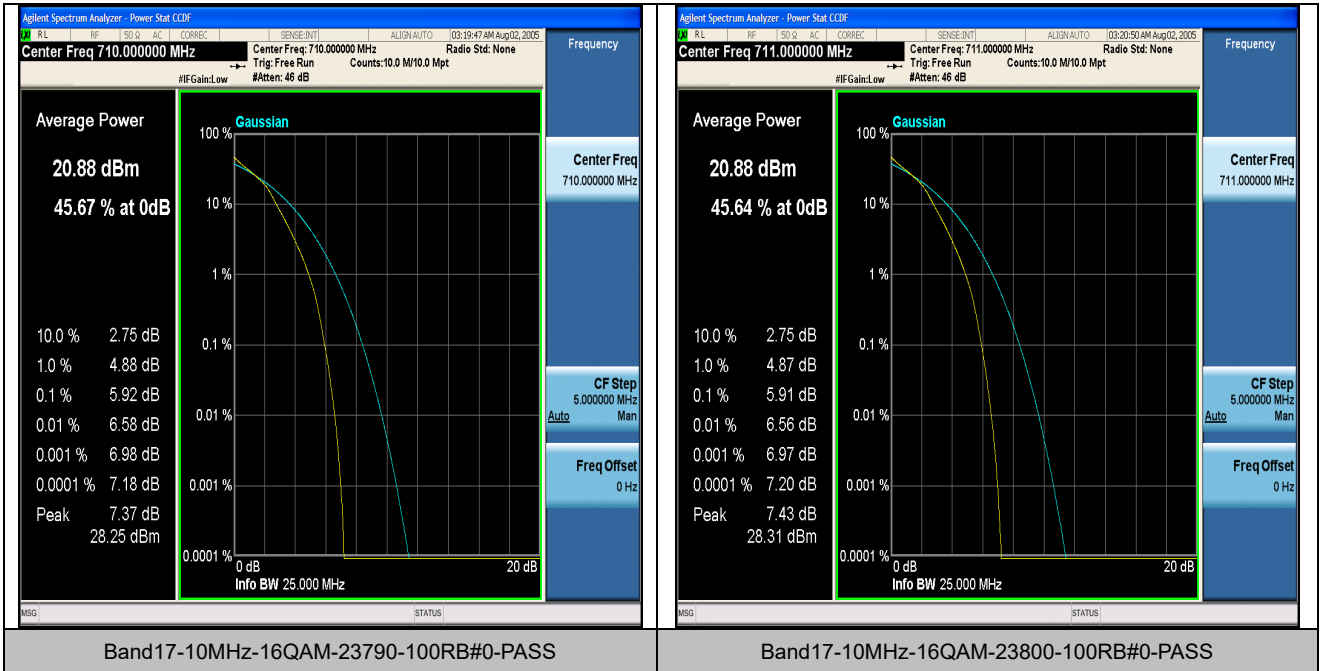
Band17	10MHz	16QAM	23780	1RB#0	22.44	18.99	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.22	18.77	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.14	18.69	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	20.80	17.35	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.09	18.64	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.23	18.78	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.15	18.7	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.73	17.28	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.09	18.64	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.35	18.9	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.23	18.78	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	20.70	17.25	34.77	PASS

Peak-to-Average Ratio(CCDF)**Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	100RB#0	5.30	13	PASS
Band17	10MHz	QPSK	23790	100RB#0	5.28	13	PASS
Band17	10MHz	QPSK	23800	100RB#0	5.27	13	PASS
Band17	10MHz	16QAM	23780	100RB#0	5.94	13	PASS
Band17	10MHz	16QAM	23790	100RB#0	5.92	13	PASS
Band17	10MHz	16QAM	23800	100RB#0	5.91	13	PASS

Test Graphs



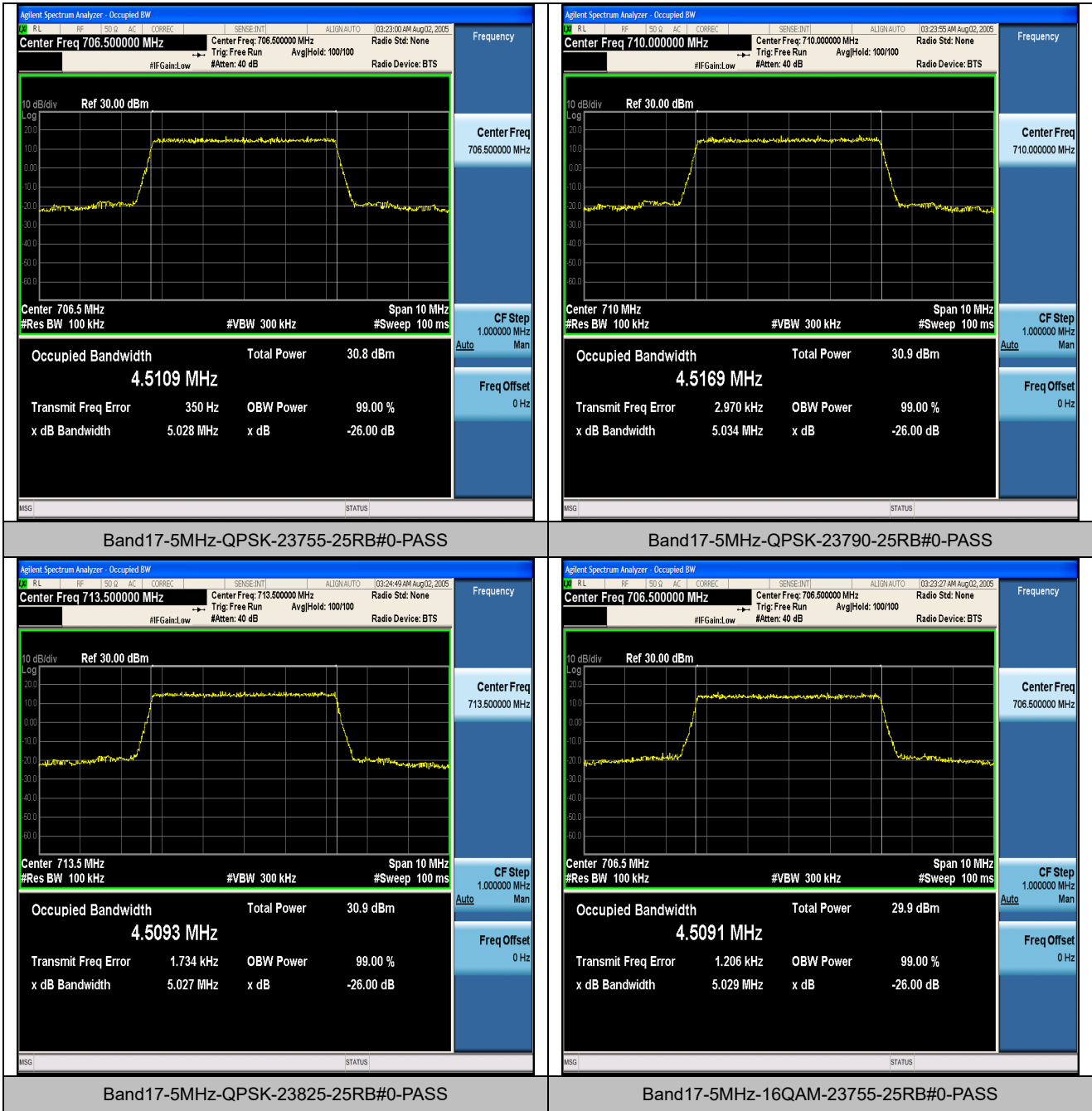


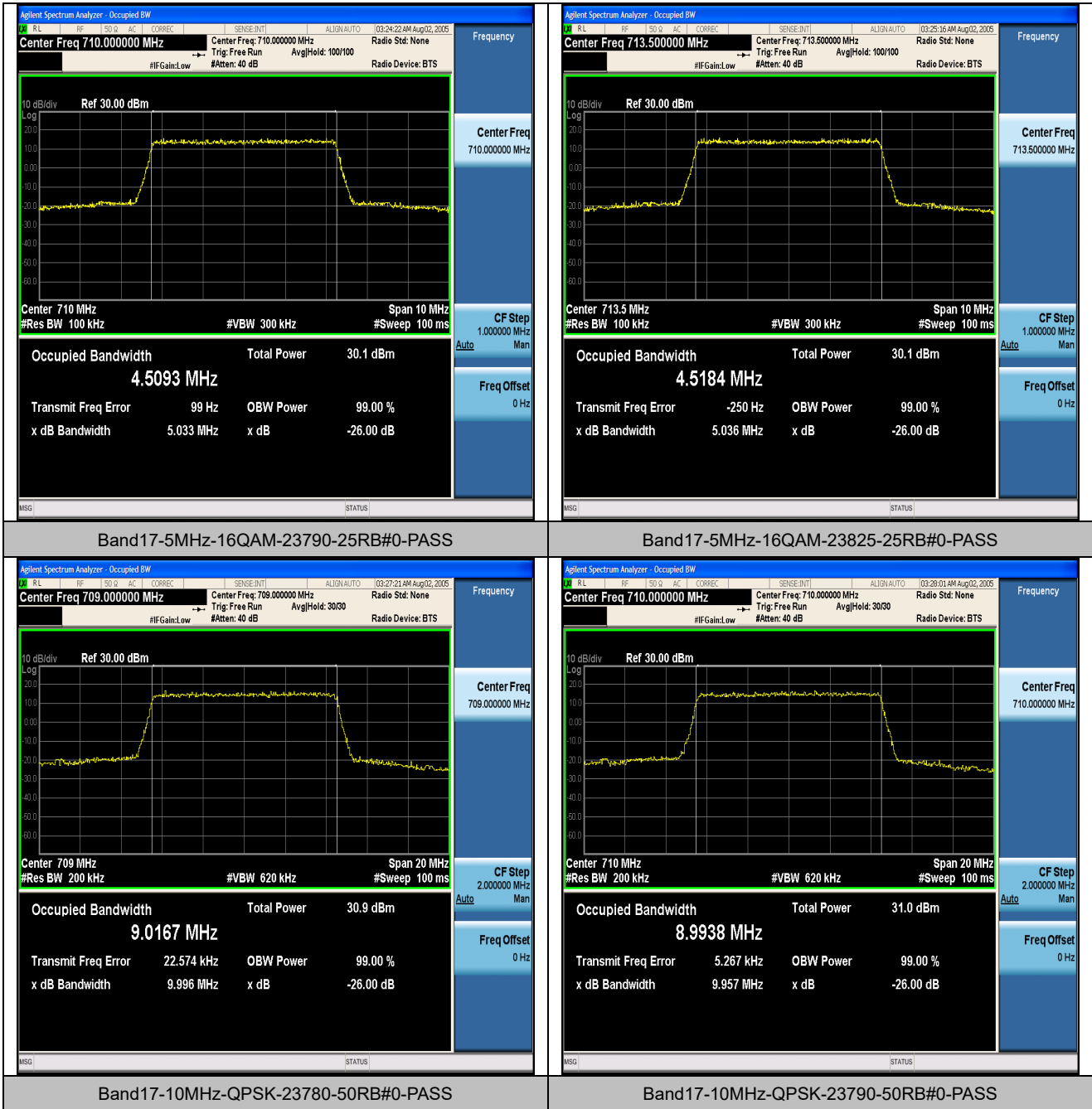
26dB Bandwidth and Occupied Bandwidth

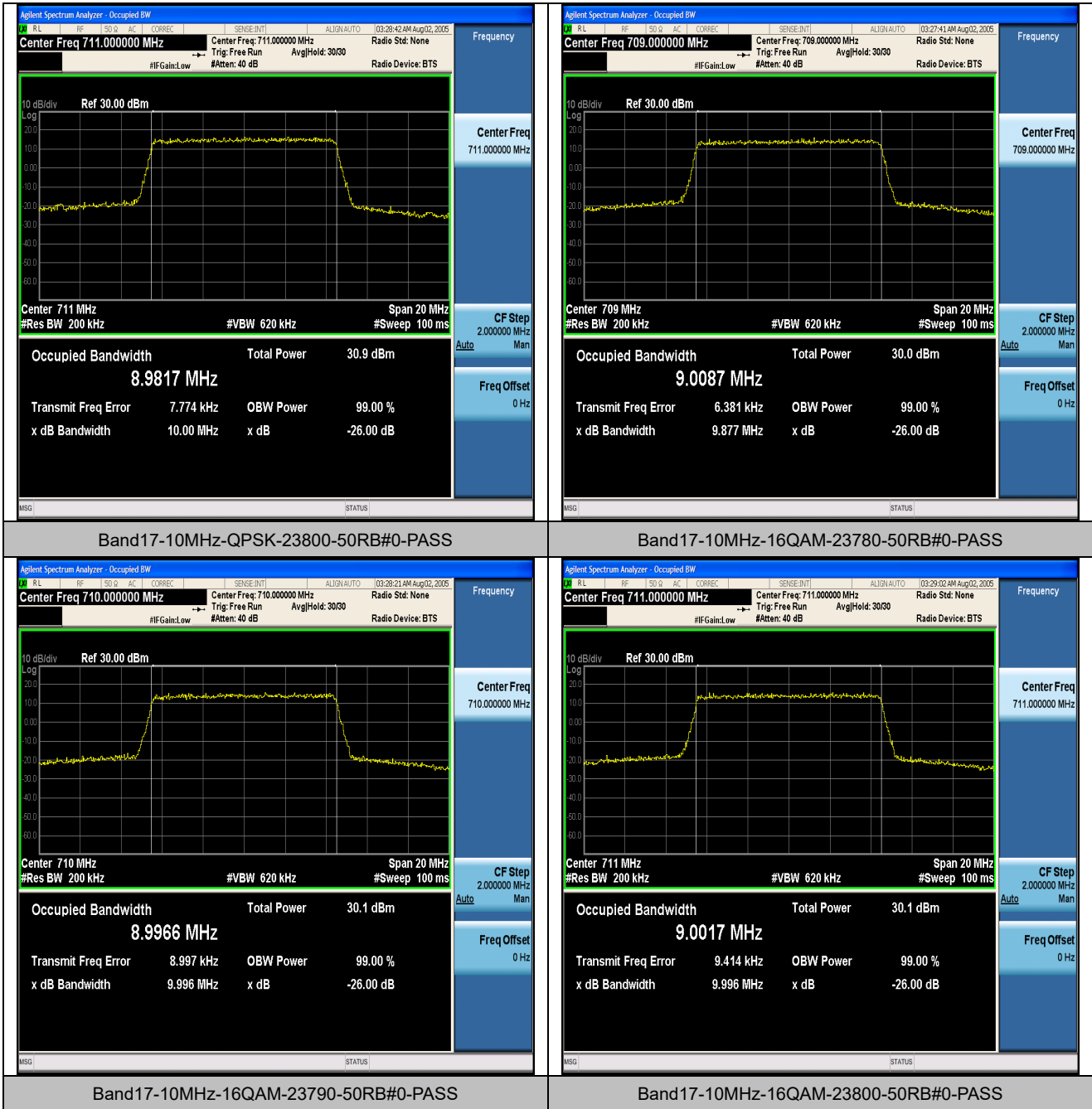
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5109	5.028	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5169	5.034	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5093	5.027	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5091	5.029	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5093	5.033	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5184	5.036	PASS
Band17	10MHz	QPSK	23780	50RB#0	9.0167	9.996	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9938	9.957	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9817	10.00	PASS
Band17	10MHz	16QAM	23780	50RB#0	9.0087	9.877	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9966	9.996	PASS
Band17	10MHz	16QAM	23800	50RB#0	9.0017	9.996	PASS

Test Graphs

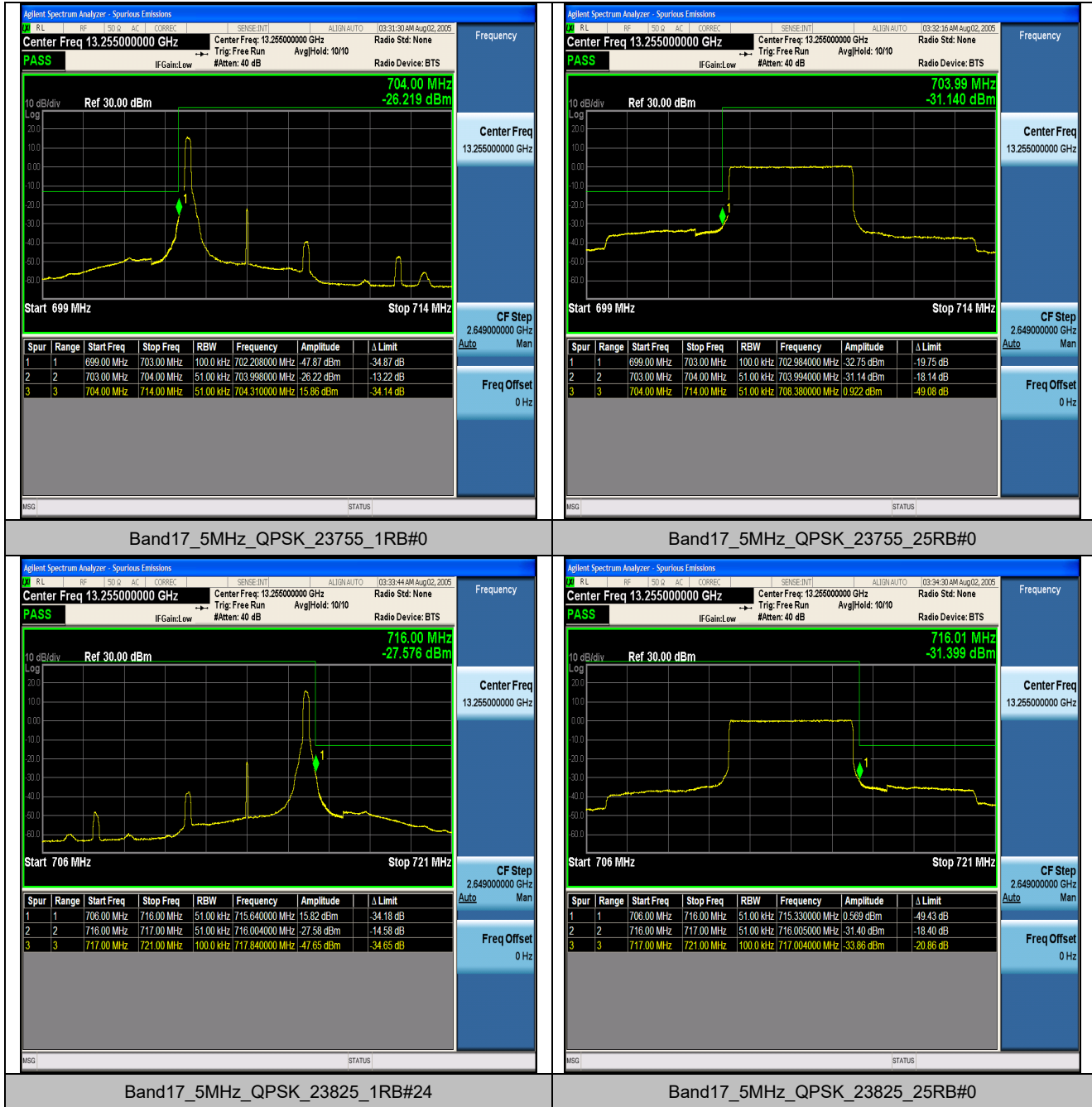


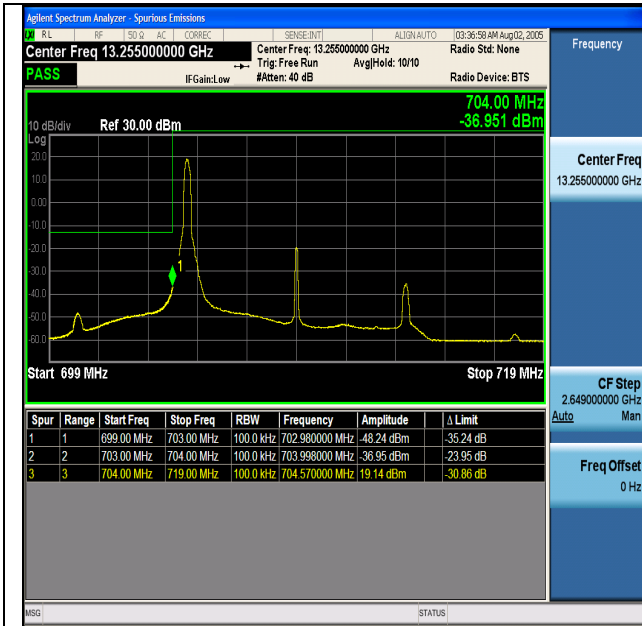




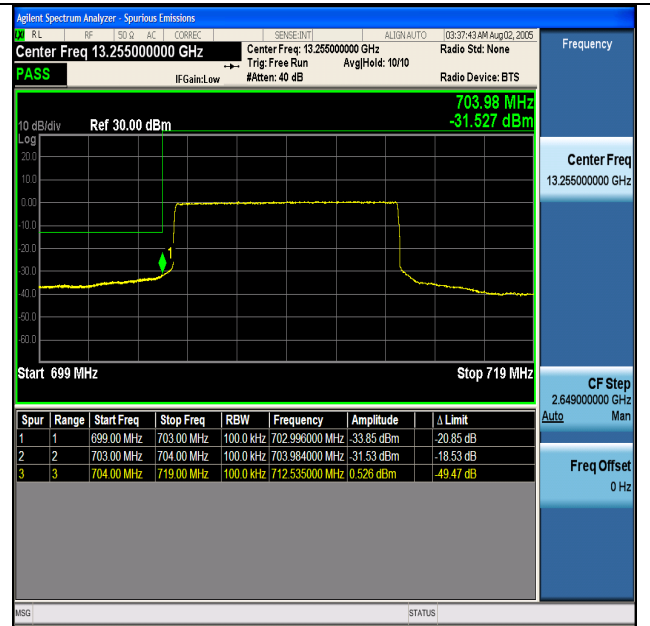
Band Edge

Test Graphs

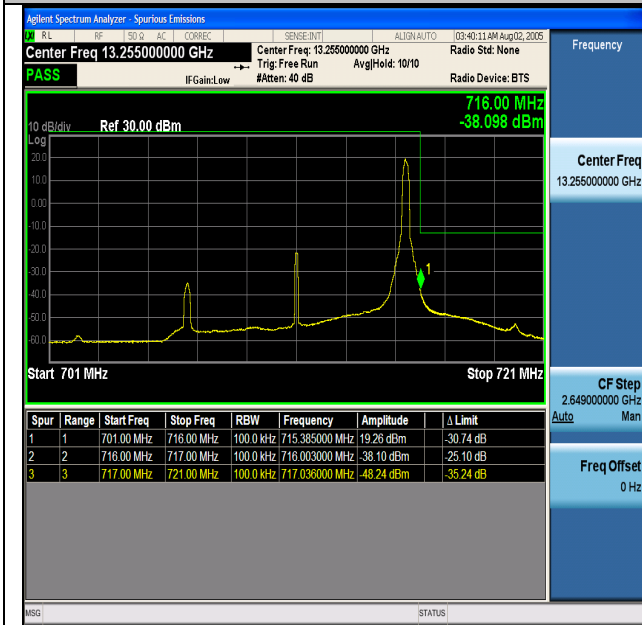




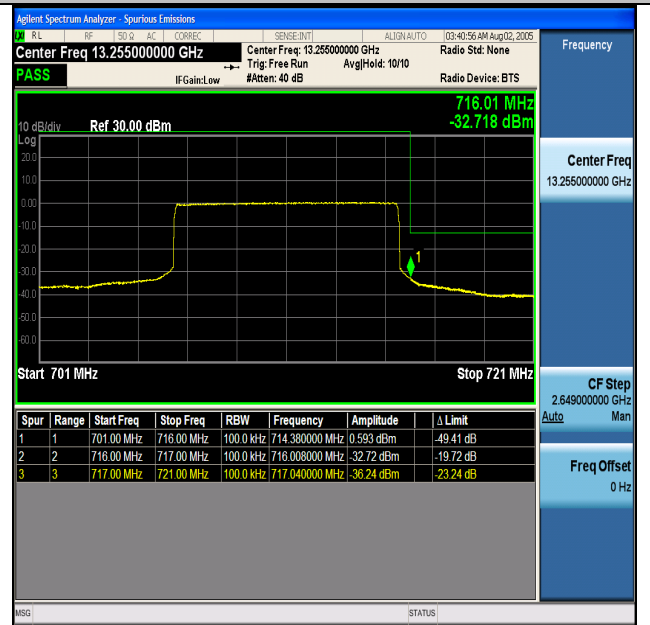
Band17_10MHz_QPSK_23780_1RB#0



Band17_10MHz_QPSK_23780_50RB#0



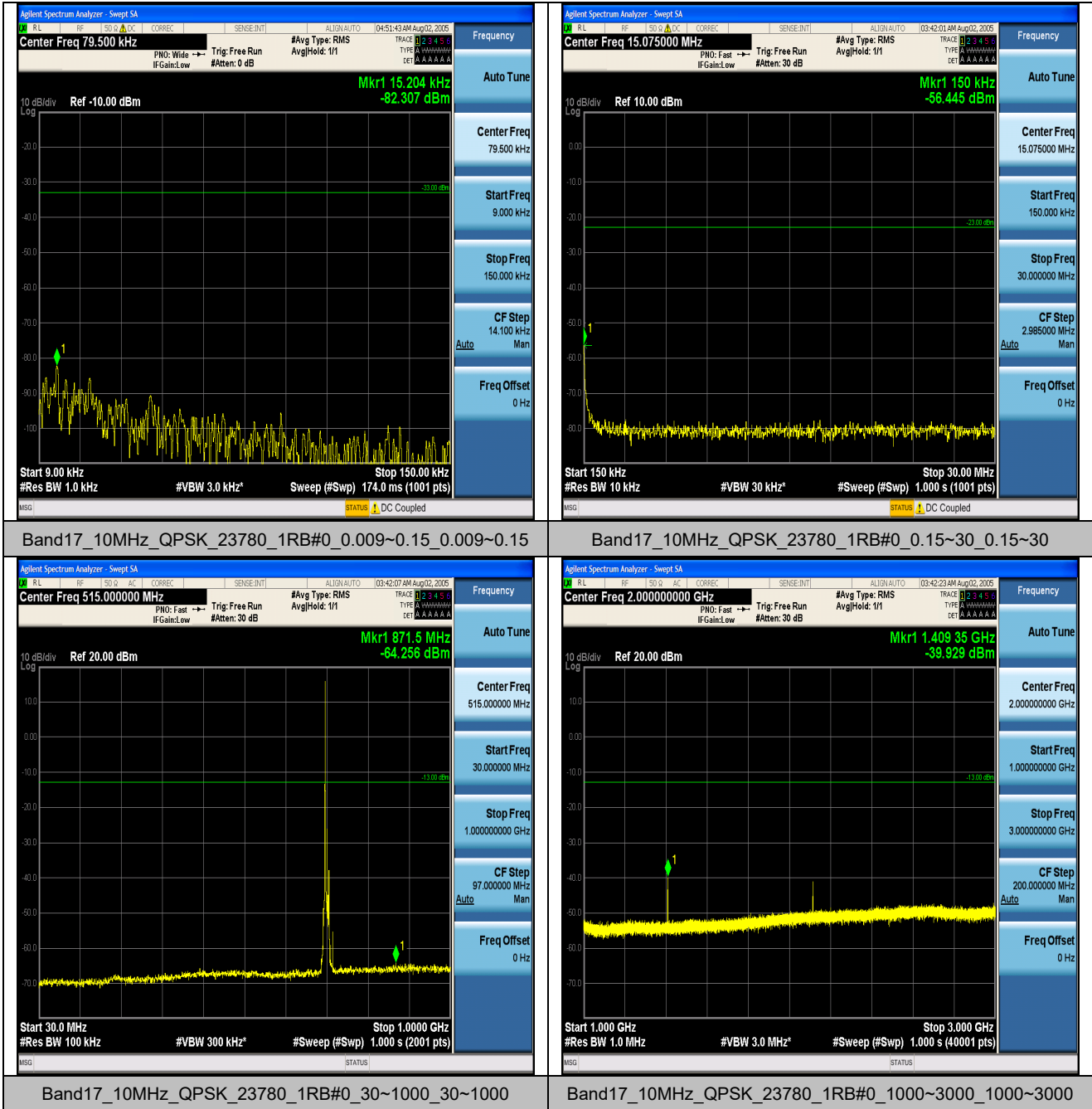
Band17_10MHz_QPSK_23800_1RB#49

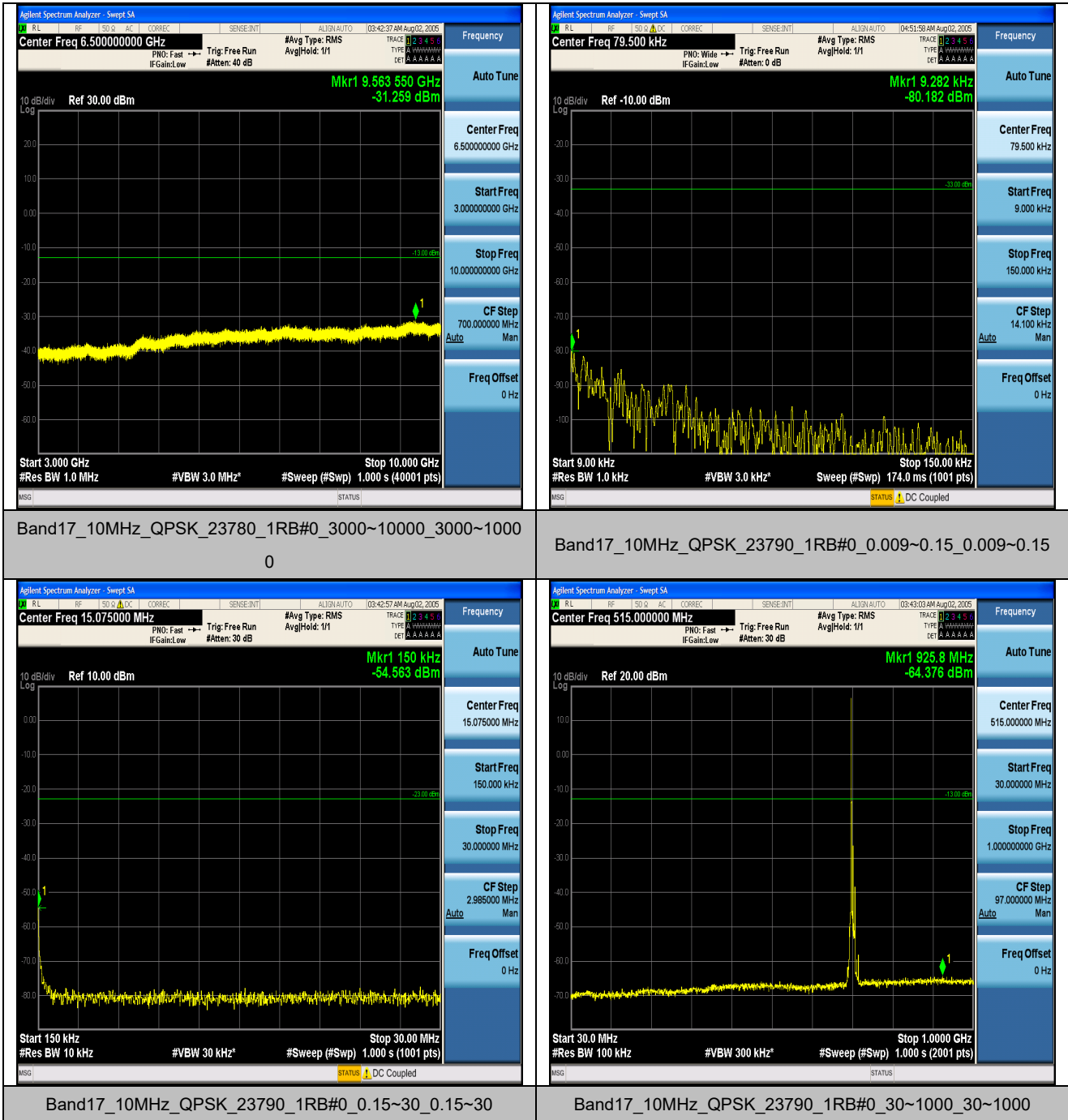


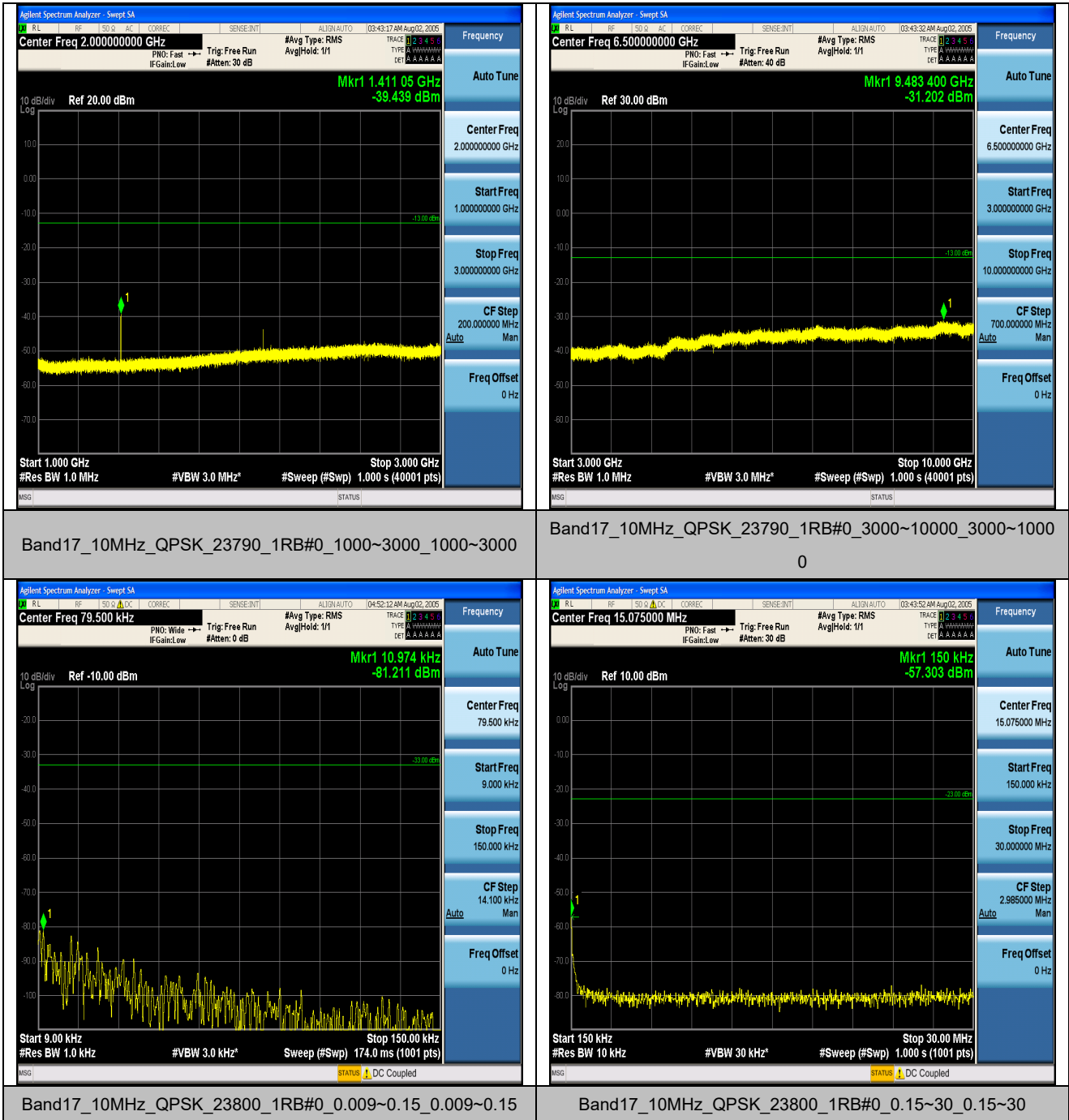
Band17_10MHz_QPSK_23800_50RB#0

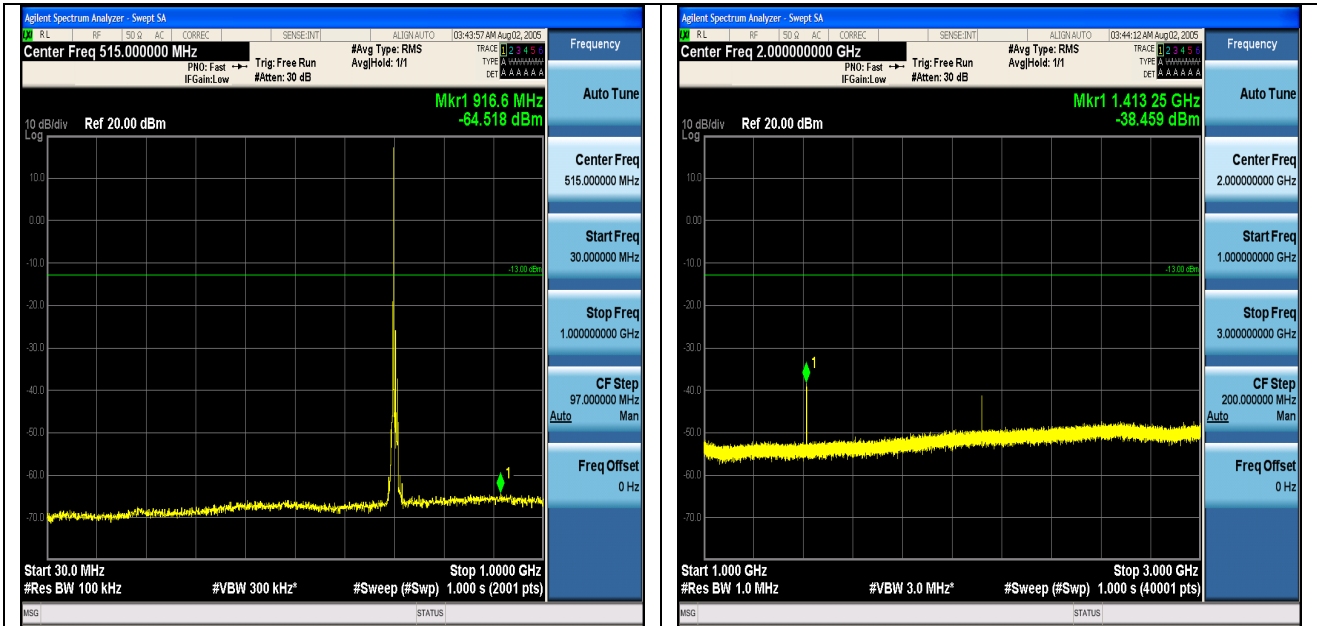
Conducted Spurious Emission

Test Graphs



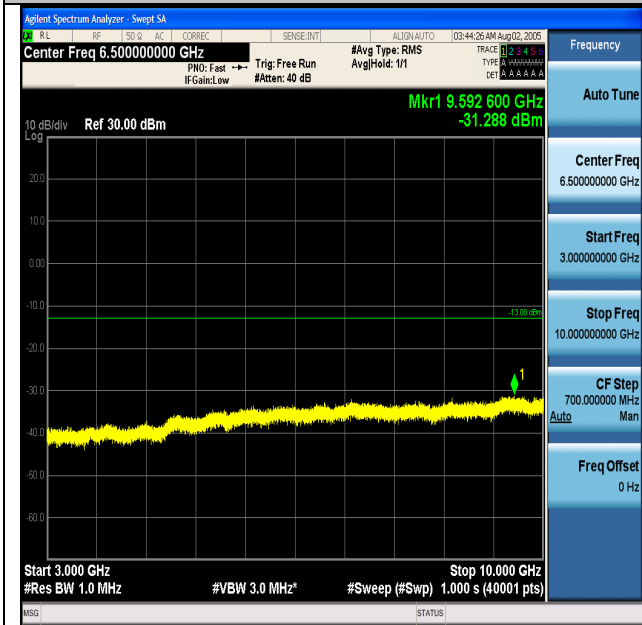






Band17_10MHz_QPSK_23800_1RB#0_30~1000_30~1000

Band17_10MHz_QPSK_23800_1RB#0_1000~3000_1000~3000



Band17_10MHz_QPSK_23800_1RB#0_3000~10000_3000~1000

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	100RB#0	VN	NT	-0.40	-0.000563	PASS
Band17	10MHz	QPSK	23790	100RB#0	VL	NT	-2.20	-0.003099	PASS
Band17	10MHz	QPSK	23790	100RB#0	VH	NT	-0.20	-0.000282	PASS
Band17	10MHz	16QAM	23790	100RB#0	VN	NT	-0.30	-0.000423	PASS
Band17	10MHz	16QAM	23790	100RB#0	VL	NT	-0.10	-0.000141	PASS
Band17	10MHz	16QAM	23790	100RB#0	VH	NT	-0.30	-0.000423	PASS

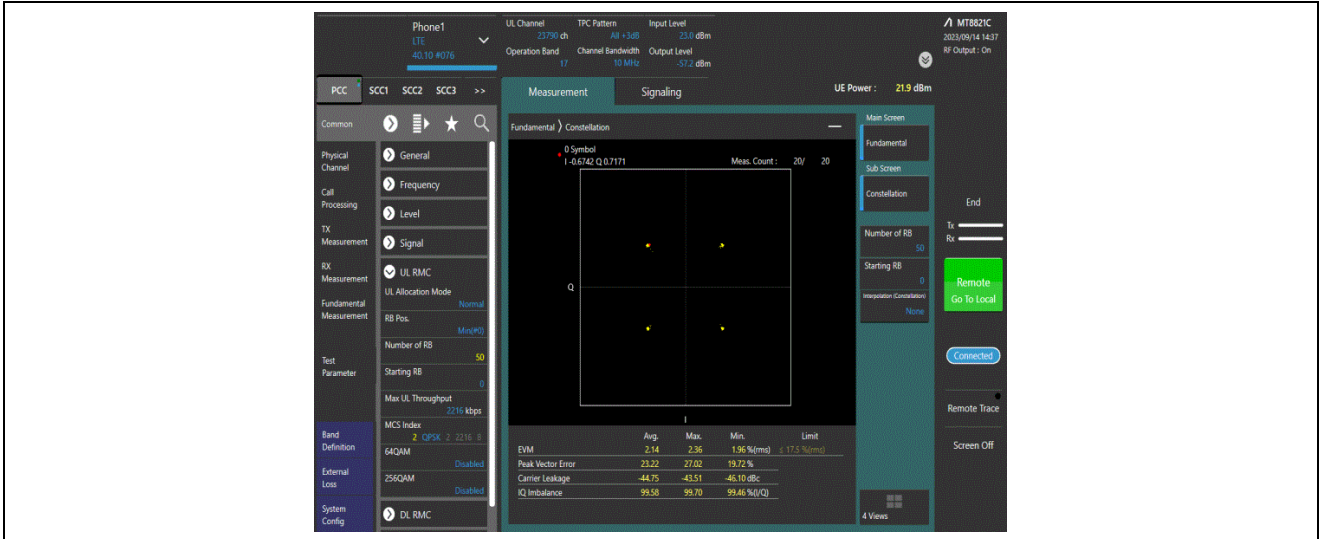
Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	100RB#0	NV	-30	0.30	0.000423	PASS
Band17	10MHz	QPSK	23790	100RB#0	NV	-20	-0.90	-0.001268	PASS
Band17	10MHz	QPSK	23790	100RB#0	NV	-10	-0.60	-0.000845	PASS
Band17	10MHz	QPSK	23790	100RB#0	NV	0	0.60	0.000845	PASS
Band17	10MHz	QPSK	23790	100RB#0	NV	10	-0.70	-0.000986	PASS
Band17	10MHz	QPSK	23790	100RB#0	NV	20	-1.20	-0.001690	PASS
Band17	10MHz	QPSK	23790	100RB#0	NV	30	-2.30	-0.003239	PASS
Band17	10MHz	QPSK	23790	100RB#0	NV	40	-1.40	-0.001972	PASS
Band17	10MHz	QPSK	23790	100RB#0	NV	50	-1.10	-0.001549	PASS
Band17	10MHz	16QAM	23790	100RB#0	NV	-30	-0.20	-0.000282	PASS
Band17	10MHz	16QAM	23790	100RB#0	NV	-20	0.90	0.001268	PASS
Band17	10MHz	16QAM	23790	100RB#0	NV	-10	-0.10	-0.000141	PASS
Band17	10MHz	16QAM	23790	100RB#0	NV	0	-0.50	-0.000704	PASS
Band17	10MHz	16QAM	23790	100RB#0	NV	10	0.40	0.000563	PASS
Band17	10MHz	16QAM	23790	100RB#0	NV	20	0.00	0.000000	PASS
Band17	10MHz	16QAM	23790	100RB#0	NV	30	0.60	0.000845	PASS
Band17	10MHz	16QAM	23790	100RB#0	NV	40	0.30	0.000423	PASS
Band17	10MHz	16QAM	23790	100RB#0	NV	50	-0.70	-0.000986	PASS

Modulation Characteristics

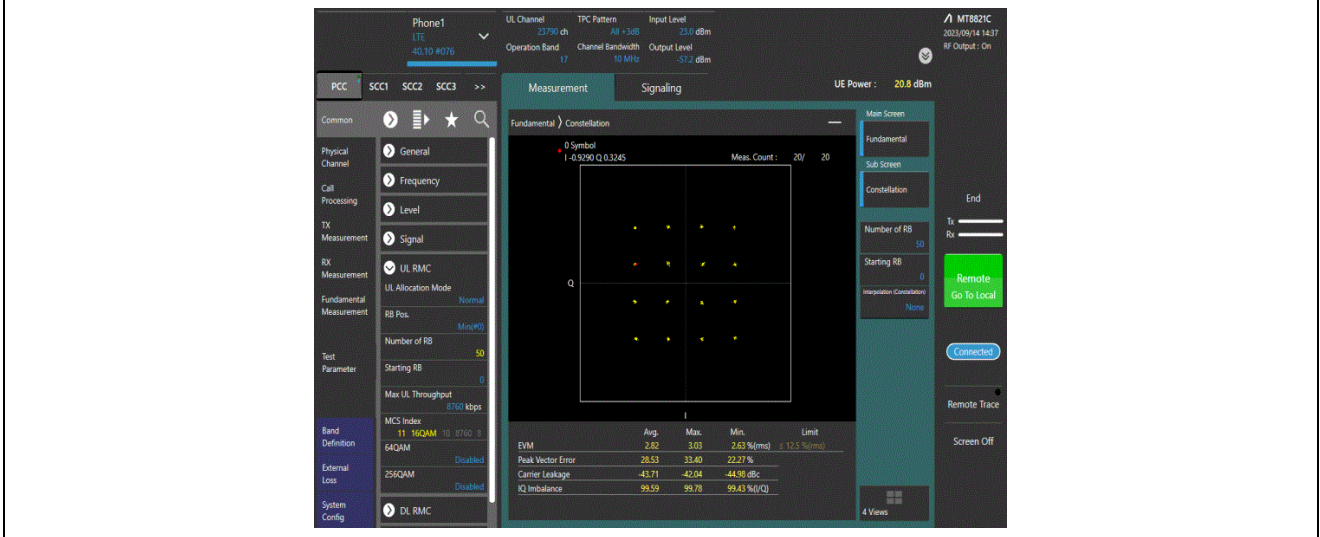
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band12	10MHz	QPSK	23790	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23790	50RB#0	PASS	PASS

Test Graphs



Band17-10MHz-QPSK-23790-50RB#0

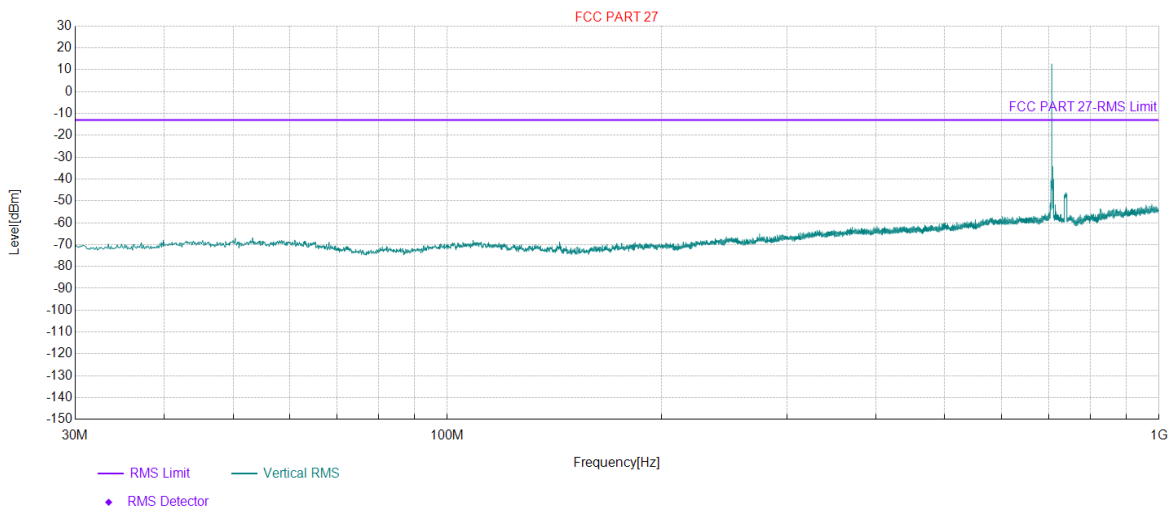
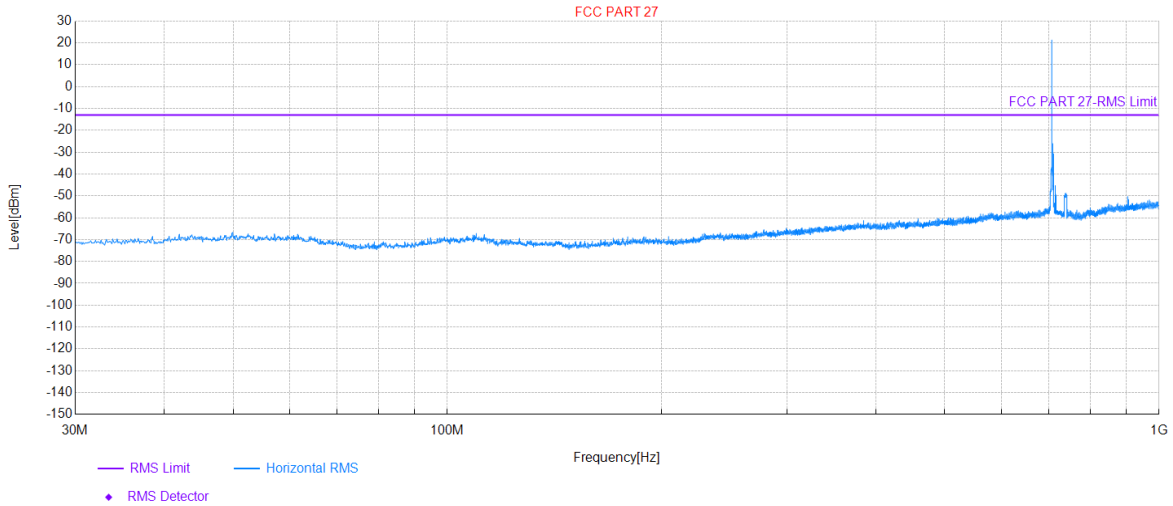


Band17-10MHz-16QAM-23790-50RB#0

Field Strength of Spurious Radiation

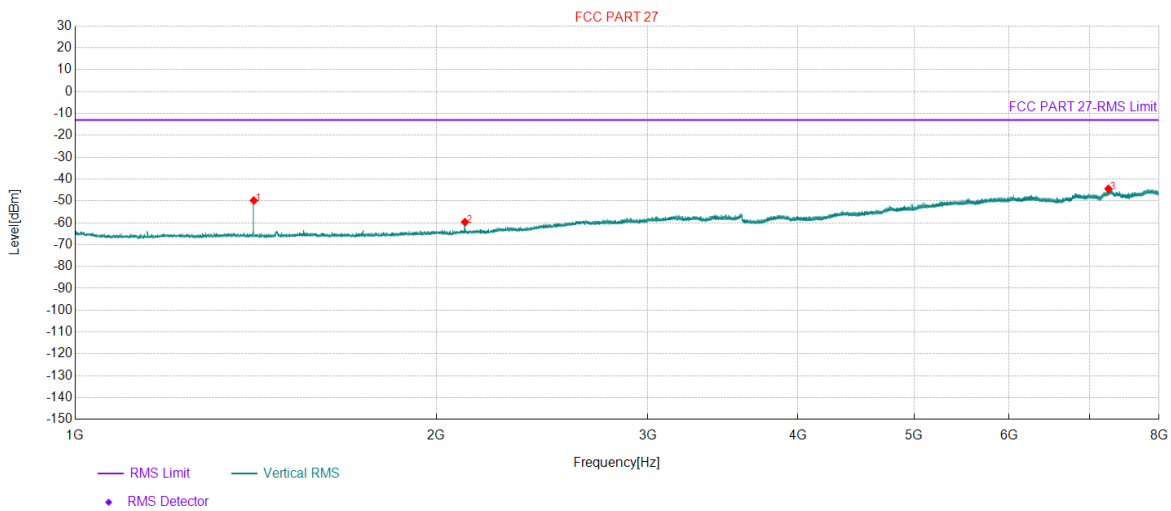
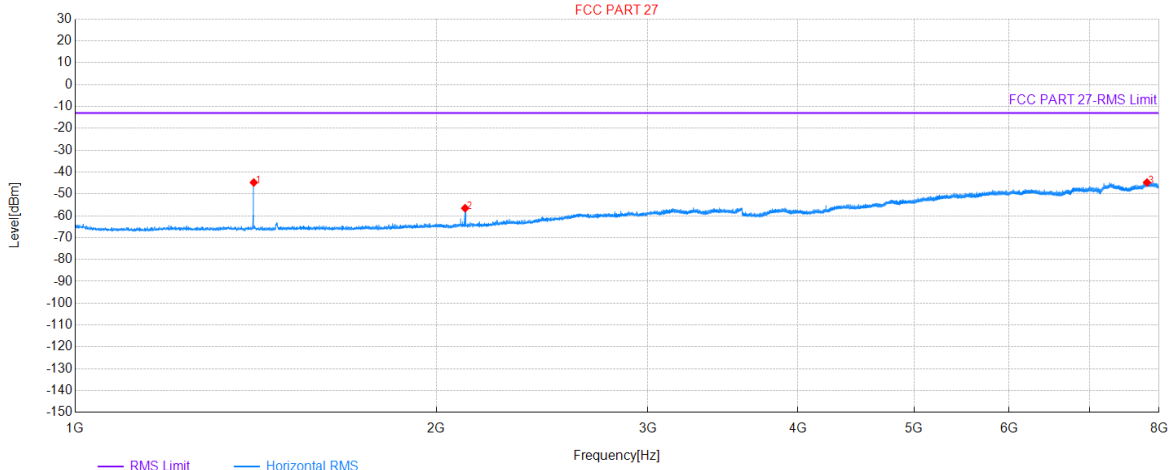
Below 1GHz

LTE Band17-MCH(worst-case)



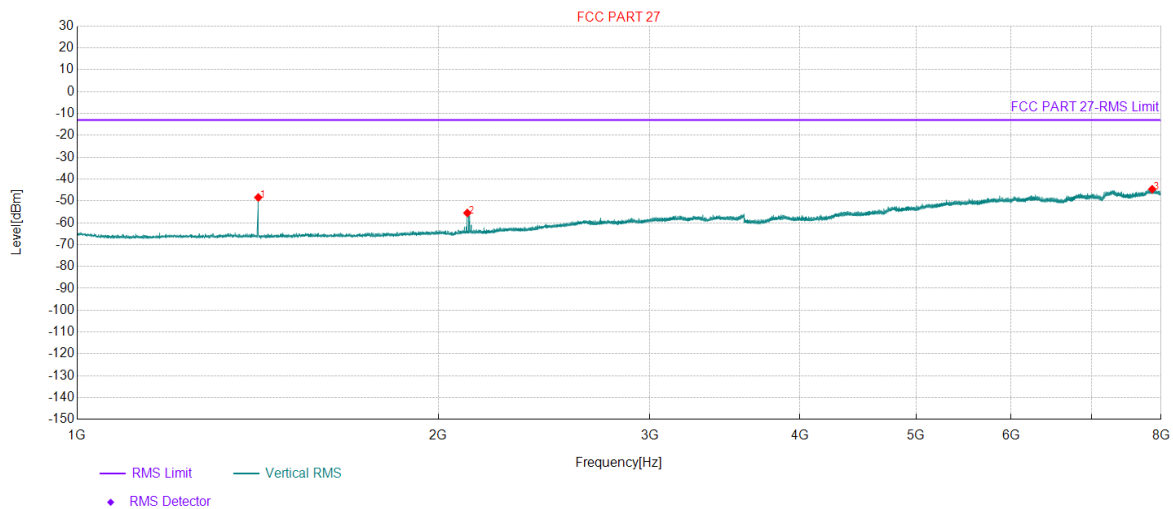
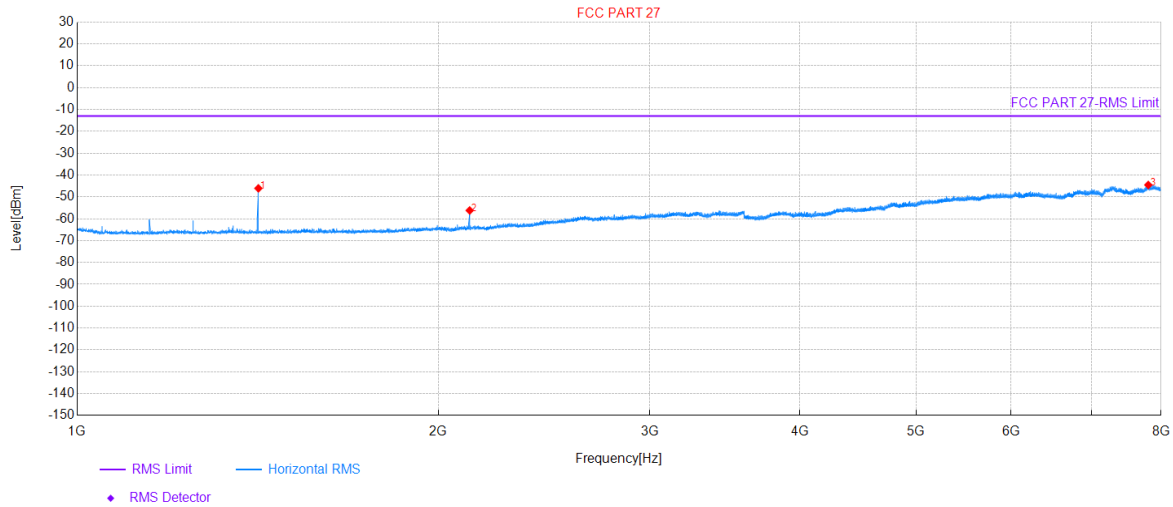
Above1GHz

LTE Band17-LCH



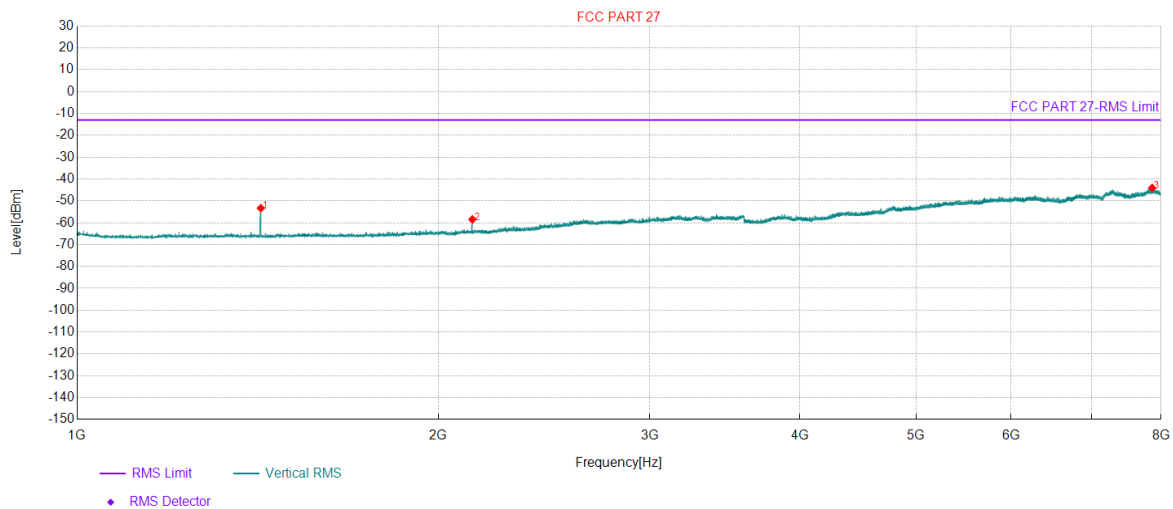
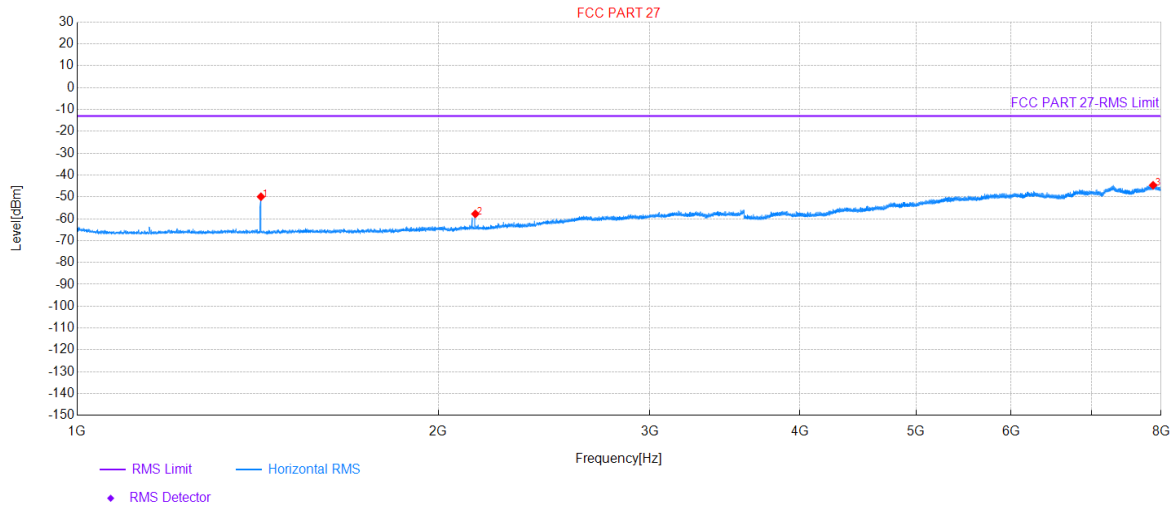
Data List											
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Trace	Polarity	Verdict
1	1408.8	69.56	-114.34	-44.78	-13.00	31.78	366	156	RMS	Horizontal	PASS
2	2113	56.66	-113.21	-56.55	-13.00	43.55	328	100	RMS	Horizontal	PASS
3	7816.95	51.05	-95.84	-44.79	-13.00	31.79	299	360	RMS	Horizontal	PASS
1	1408.8	64.52	-114.34	-49.82	-13.00	36.82	337	271	RMS	Vertical	PASS
2	2112.65	53.53	-113.21	-59.68	-13.00	46.68	180	120	RMS	Vertical	PASS
3	7259.75	52.26	-96.72	-44.46	-13.00	31.46	212	6	RMS	Vertical	PASS

LTE Band17-MCH



Data List											
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Trace	Polarity	Verdict
1	1415.8	68.28	-114.36	-46.08	-13.00	33.08	221	354	RMS	Horizontal	PASS
2	2123.5	57.00	-113.21	-56.21	-13.00	43.21	343	318	RMS	Horizontal	PASS
3	7806.8	51.32	-95.86	-44.54	-13.00	31.54	203	252	RMS	Horizontal	PASS
1	1415.45	65.94	-114.36	-48.42	-13.00	35.42	212	110	RMS	Vertical	PASS
2	2114.05	57.68	-113.21	-55.53	-13.00	42.53	200	316	RMS	Vertical	PASS
3	7865.25	51.12	-95.76	-44.64	-13.00	31.64	115	310	RMS	Vertical	PASS

LTE Band17-HCH



Data List											
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Trace	Polarity	Verdict
1	1422.8	64.47	-114.38	-49.91	-13.00	36.91	233	311	RMS	Horizontal	PASS
2	2146.6	55.41	-113.19	-57.78	-13.00	44.78	333	330	RMS	Horizontal	PASS
3	7879.6	51.06	-95.73	-44.67	-13.00	31.67	166	203	RMS	Horizontal	PASS
1	1422.45	61.08	-114.39	-53.31	-13.00	40.31	142	104	RMS	Vertical	PASS
2	2134.35	54.74	-113.20	-58.46	-13.00	45.46	224	122	RMS	Vertical	PASS
3	7865.25	51.72	-95.76	-44.04	-13.00	31.04	321	249	RMS	Vertical	PASS