

Effective (Isotropic) Radiated Power Output Data

Test Result

Select the higher-powered ANT 1 as the final data.

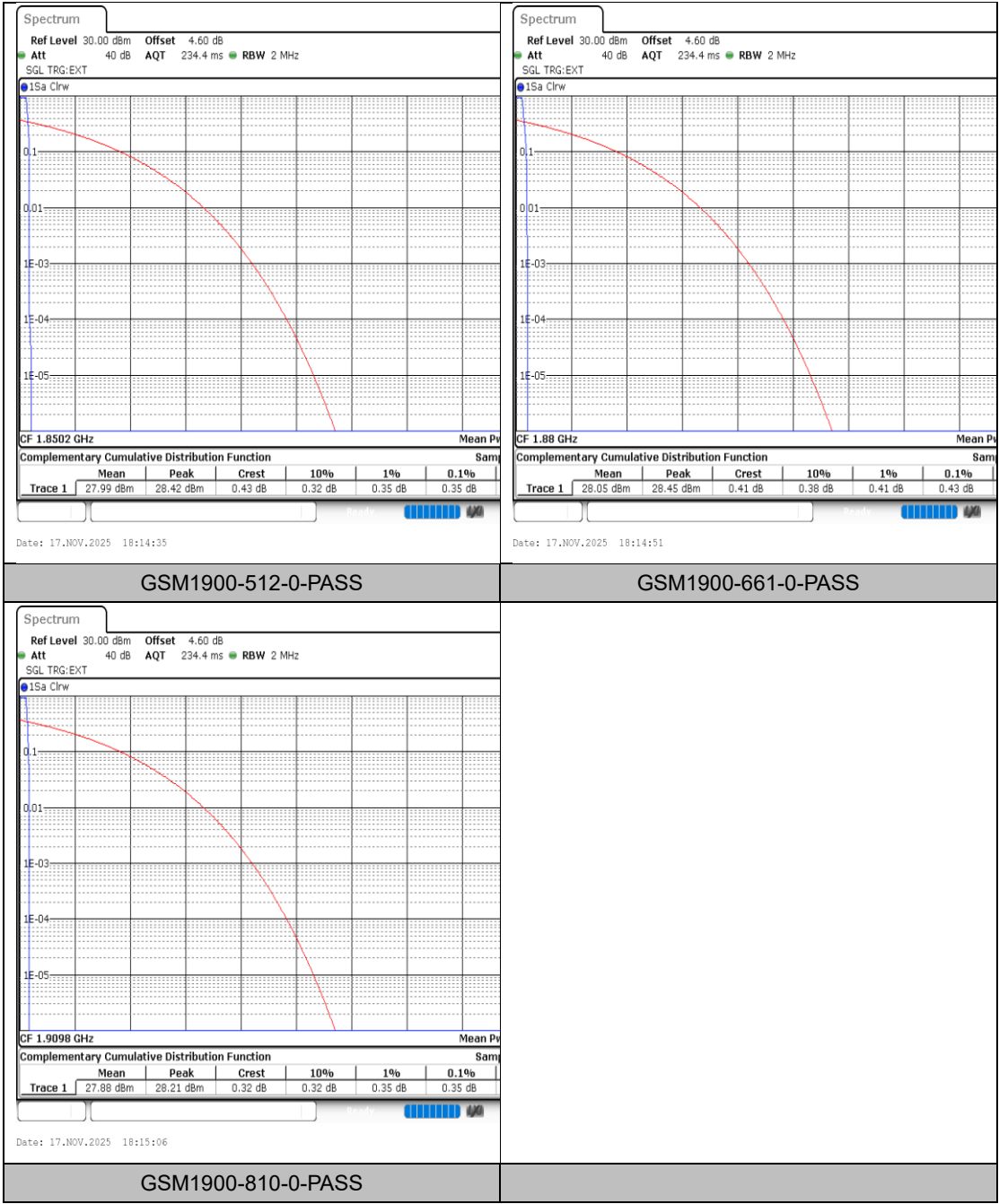
Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	30.01	29.95	33	PASS
GSM1900	661	30.03	29.97	33	PASS
GSM1900	810	29.92	29.86	33	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM1900	512	0.35	13	PASS
GSM1900	661	0.43	13	PASS
GSM1900	810	0.35	13	PASS

Test Graphs

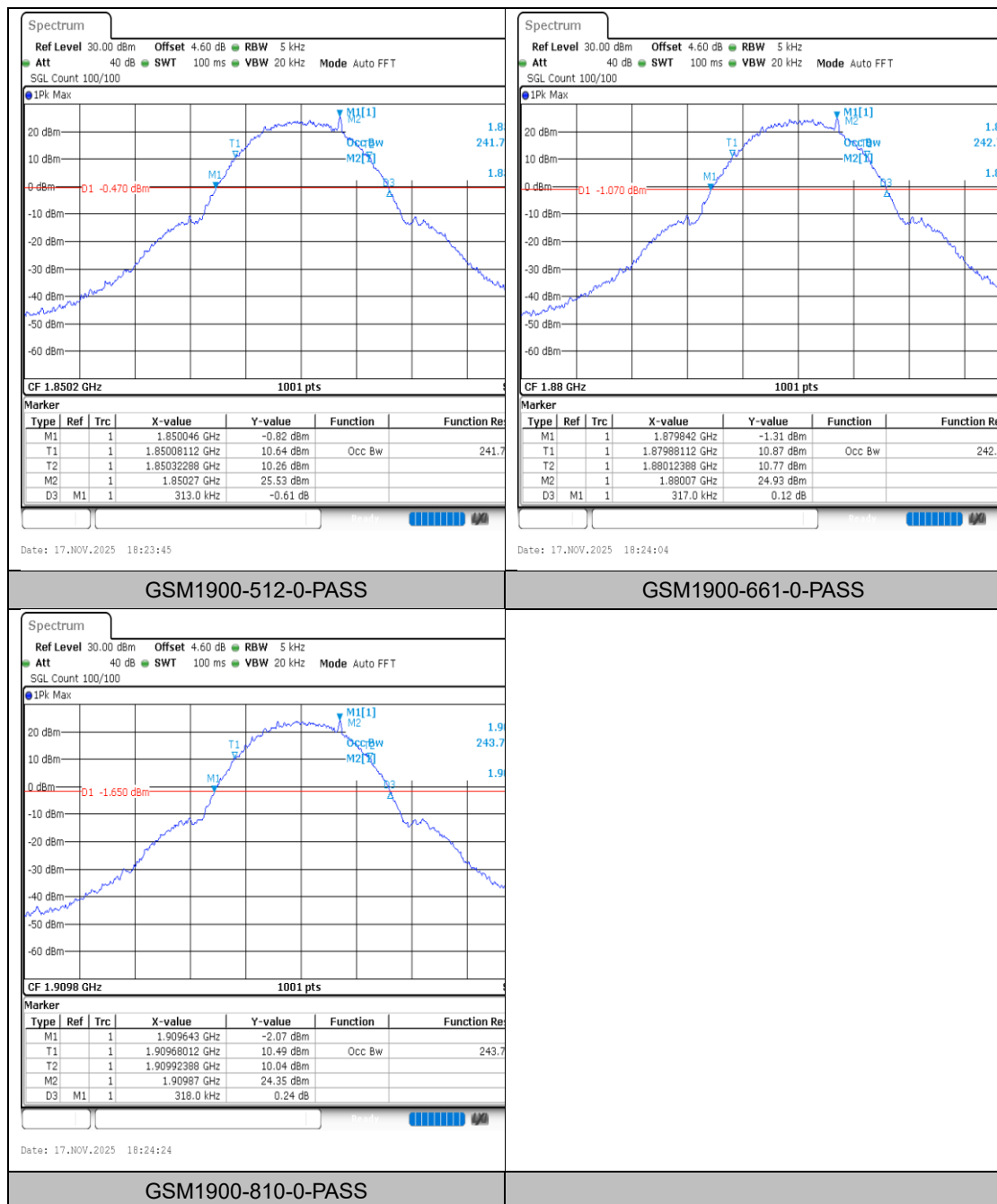


26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM1900	512	0.242	0.31	---	PASS
GSM1900	661	0.243	0.32	---	PASS
GSM1900	810	0.244	0.32	---	PASS

Test Graphs

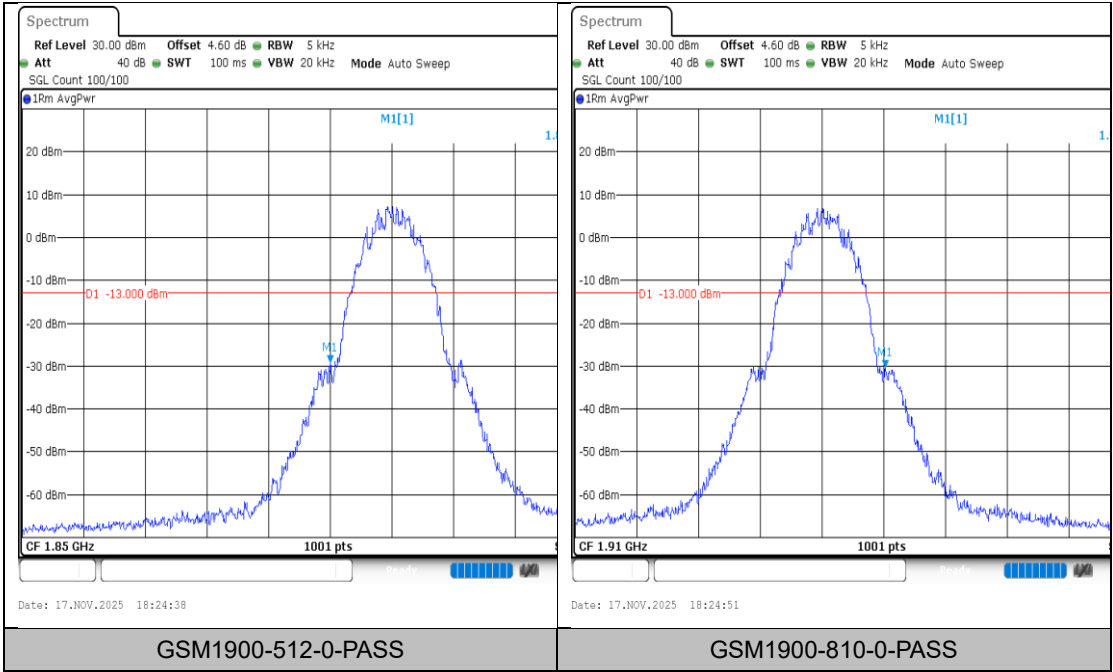


Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM1900	512	1850.00	-29.09	-13	PASS
GSM1900	810	1910.00	-30.22	-13	PASS

Test Graphs

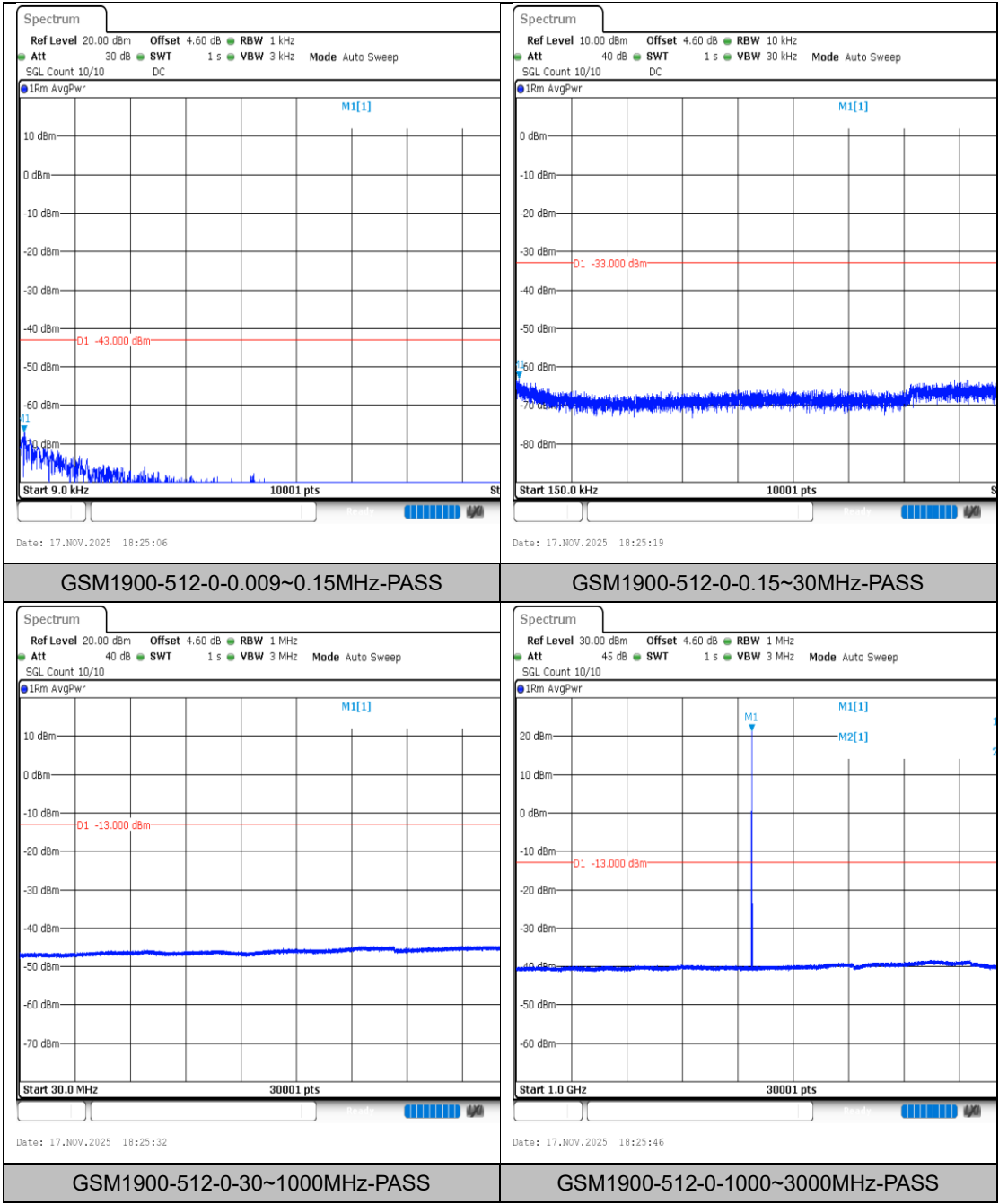


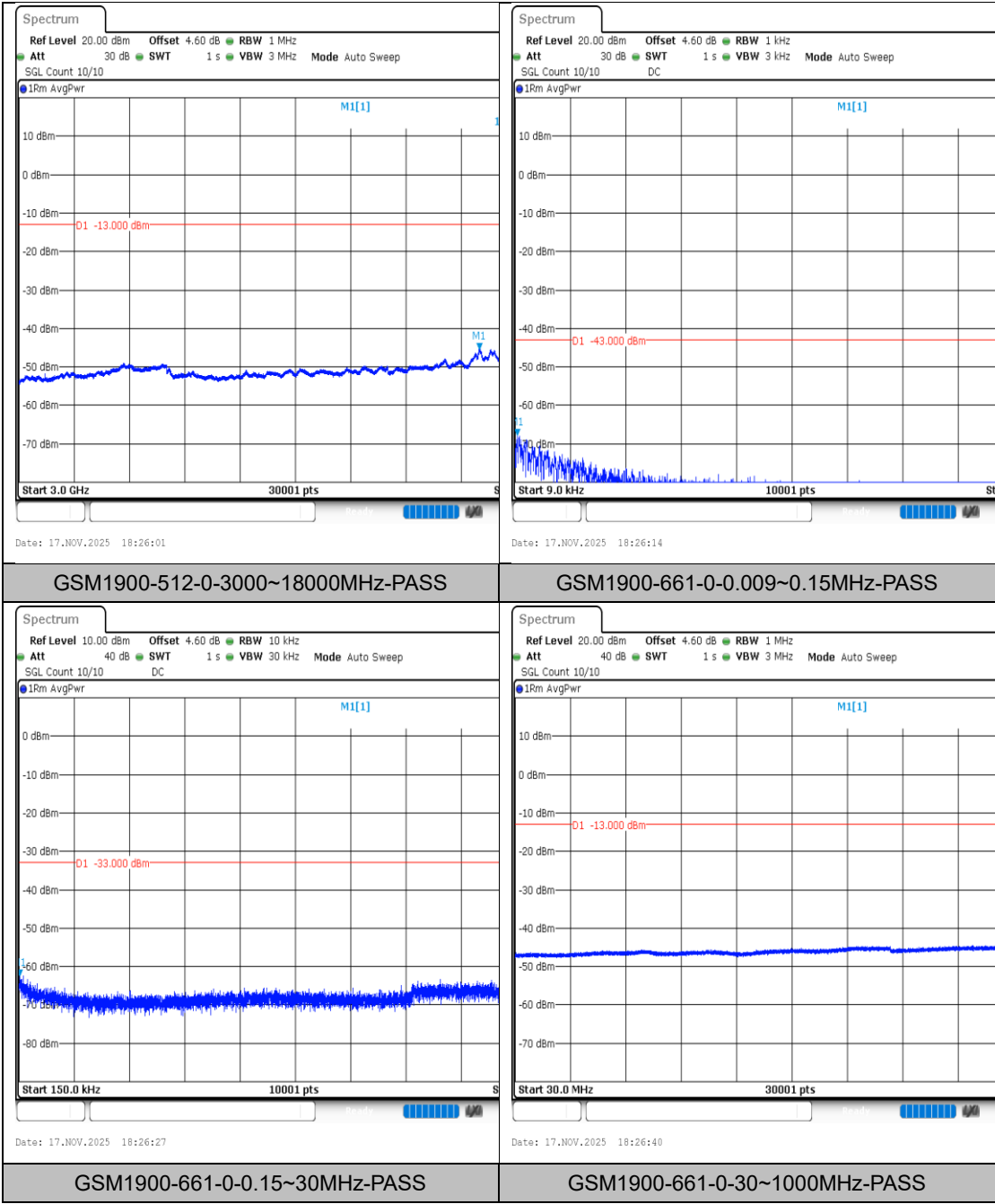
Conducted Spurious Emission

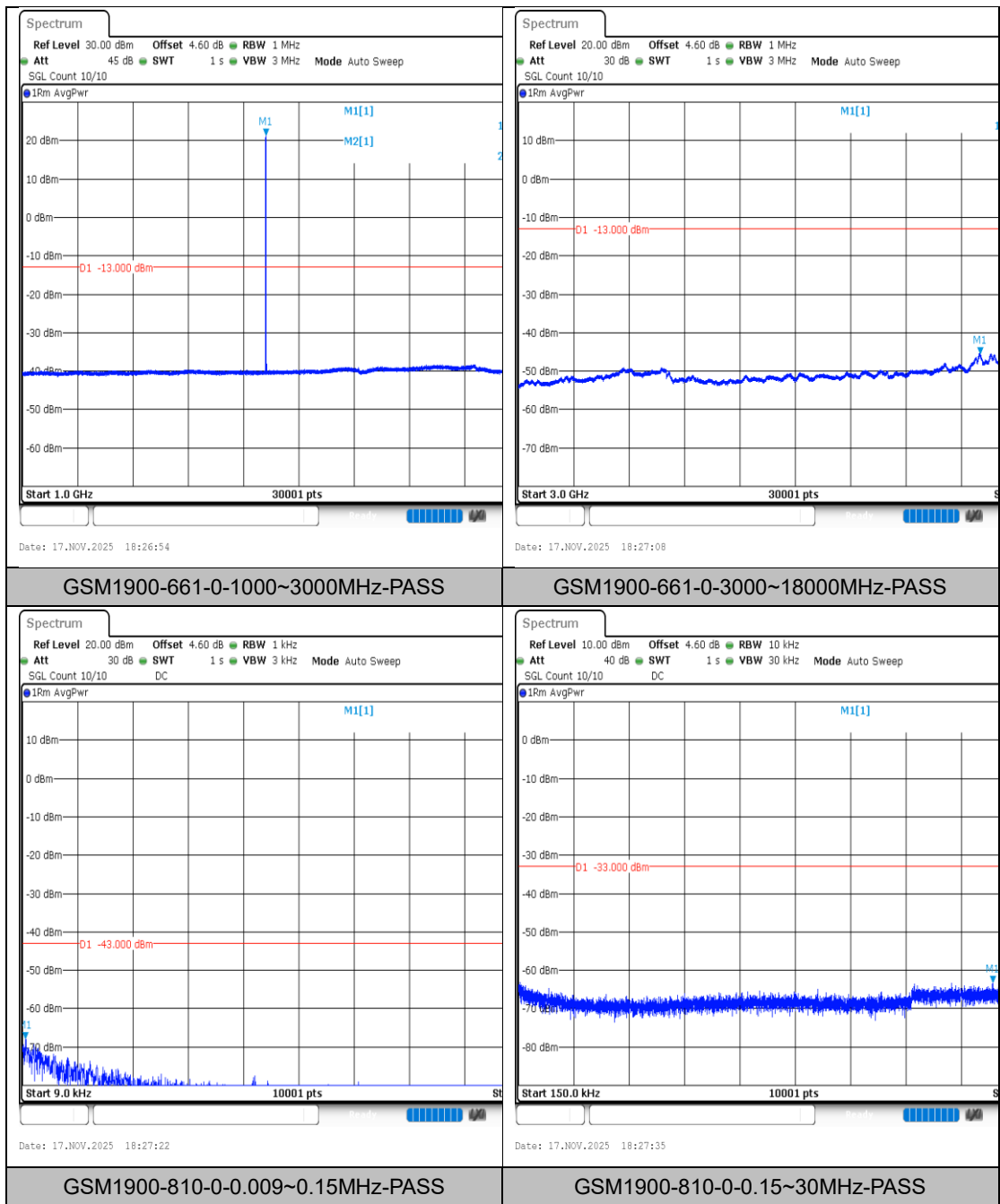
Test Result

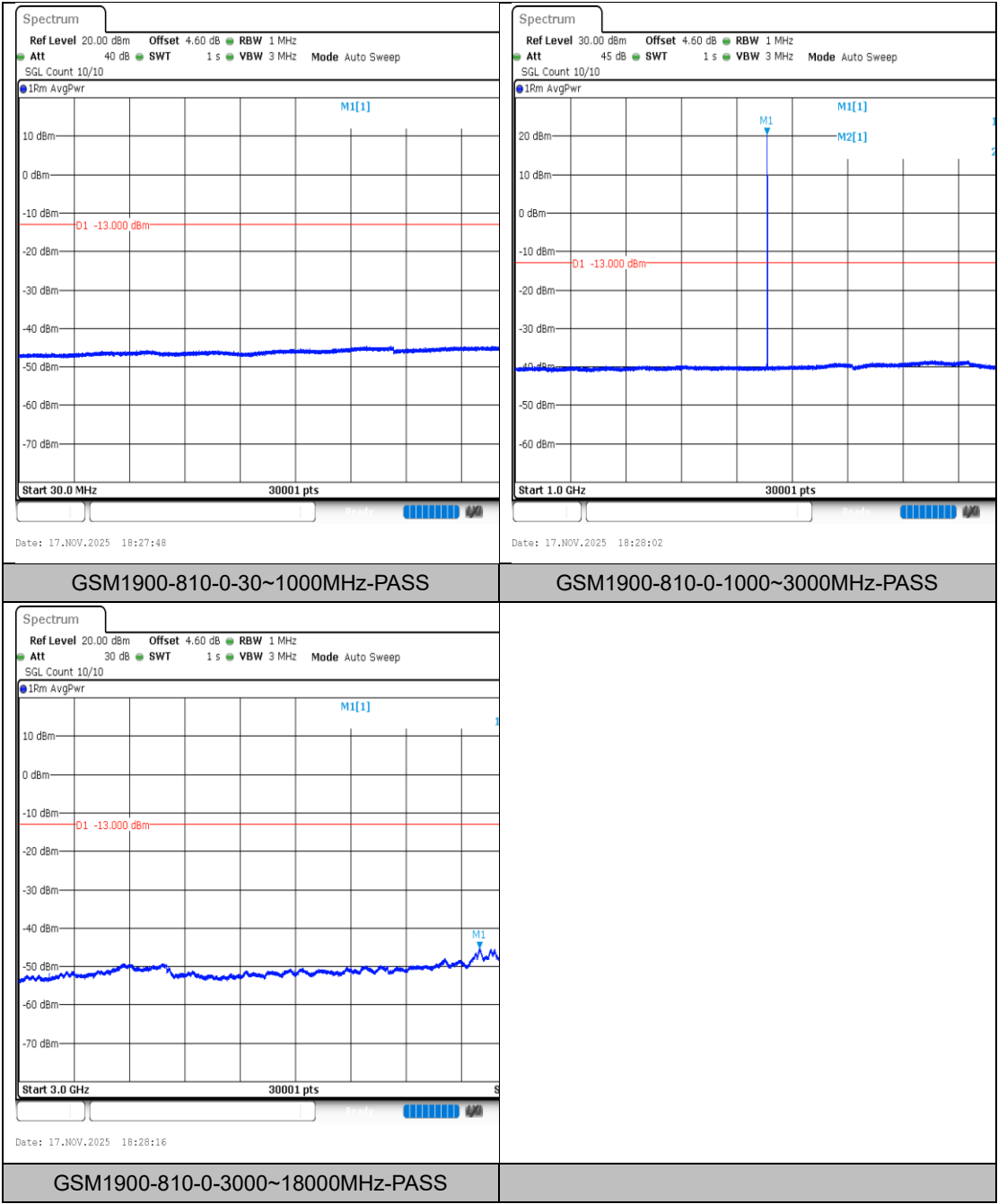
Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM1900	512	0.009~0.15MHz	0.01	-66.87	-43	PASS
GSM1900	512	0.15~30MHz	0.32	-62.81	-33	PASS
GSM1900	512	30~1000MHz	926.36	-44.4	-13	PASS
GSM1900	512	1000~3000MHz	2967.4	-38.24	-13	PASS
GSM1900	512	3000~18000MHz	15494.83	-45.44	-13	PASS
GSM1900	661	0.009~0.15MHz	0.01	-67.88	-43	PASS
GSM1900	661	0.15~30MHz	0.18	-62.52	-33	PASS
GSM1900	661	30~1000MHz	939.14	-44.43	-13	PASS
GSM1900	661	1000~3000MHz	2950.73	-38.17	-13	PASS
GSM1900	661	3000~18000MHz	15503.33	-45.38	-13	PASS
GSM1900	810	0.009~0.15MHz	0.01	-67.85	-43	PASS
GSM1900	810	0.15~30MHz	25.74	-63.1	-33	PASS
GSM1900	810	30~1000MHz	946.05	-44.31	-13	PASS
GSM1900	810	1000~3000MHz	2955.07	-38.19	-13	PASS
GSM1900	810	3000~18000MHz	15496.83	-45.3	-13	PASS

Test Graphs









Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	VN	NT	2000.00	1.080964	±2.5	PASS
GSM1900	512	VL	NT	2500.00	1.351205	±2.5	PASS
GSM1900	512	VH	NT	2500.00	1.351205	±2.5	PASS
GSM1900	661	VN	NT	2000.00	1.063830	±2.5	PASS
GSM1900	661	VL	NT	2000.00	1.063830	±2.5	PASS
GSM1900	661	VH	NT	2000.00	1.063830	±2.5	PASS
GSM1900	810	VN	NT	2250.00	1.178134	±2.5	PASS
GSM1900	810	VL	NT	2250.00	1.178134	±2.5	PASS
GSM1900	810	VH	NT	2000.00	1.047230	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	NV	-30	1750.00	0.945844	±2.5	PASS
GSM1900	512	NV	-20	2000.00	1.080964	±2.5	PASS
GSM1900	512	NV	-10	2000.00	1.080964	±2.5	PASS
GSM1900	512	NV	0	2000.00	1.080964	±2.5	PASS
GSM1900	512	NV	10	2250.00	1.216085	±2.5	PASS
GSM1900	512	NV	20	2250.00	1.216085	±2.5	PASS
GSM1900	512	NV	30	2000.00	1.080964	±2.5	PASS
GSM1900	512	NV	40	2250.00	1.216085	±2.5	PASS
GSM1900	512	NV	50	2250.00	1.216085	±2.5	PASS
GSM1900	661	NV	-30	2000.00	1.063830	±2.5	PASS
GSM1900	661	NV	-20	2250.00	1.196809	±2.5	PASS
GSM1900	661	NV	-10	1750.00	0.930851	±2.5	PASS
GSM1900	661	NV	0	2000.00	1.063830	±2.5	PASS
GSM1900	661	NV	10	1750.00	0.930851	±2.5	PASS
GSM1900	661	NV	20	2250.00	1.196809	±2.5	PASS
GSM1900	661	NV	30	2250.00	1.196809	±2.5	PASS
GSM1900	661	NV	40	2000.00	1.063830	±2.5	PASS
GSM1900	661	NV	50	2250.00	1.196809	±2.5	PASS
GSM1900	810	NV	-30	2000.00	1.047230	±2.5	PASS
GSM1900	810	NV	-20	2250.00	1.178134	±2.5	PASS
GSM1900	810	NV	-10	2250.00	1.178134	±2.5	PASS

GSM1900	810	NV	0	1750.00	0.916326	±2.5	PASS
GSM1900	810	NV	10	2000.00	1.047230	±2.5	PASS
GSM1900	810	NV	20	2250.00	1.178134	±2.5	PASS
GSM1900	810	NV	30	2000.00	1.047230	±2.5	PASS
GSM1900	810	NV	40	1500.00	0.785423	±2.5	PASS
GSM1900	810	NV	50	2250.00	1.178134	±2.5	PASS

Effective (Isotropic) Radiated Power Output Data

Test Result

Select the higher-powered ANT 1 as the final data.

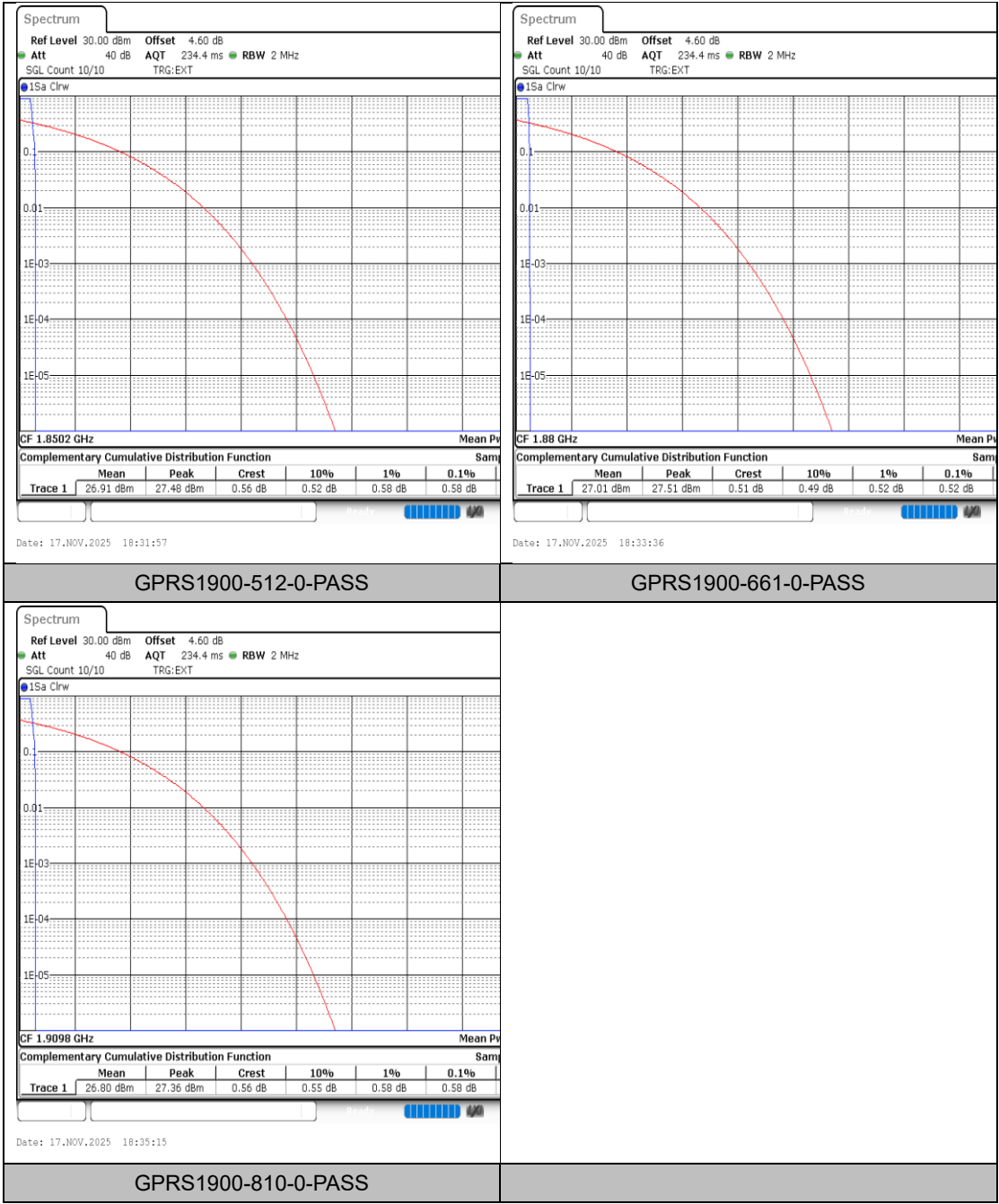
Band	Channel	Up Slot Num	Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GPRS1900	512	1	29.08	29.02	33	PASS
GPRS1900	512	2	27.25	27.19	33	PASS
GPRS1900	512	3	25.38	25.32	33	PASS
GPRS1900	512	4	23.33	23.27	33	PASS
GPRS1900	661	1	29.07	29.01	33	PASS
GPRS1900	661	2	27.26	27.2	33	PASS
GPRS1900	661	3	25.42	25.36	33	PASS
GPRS1900	661	4	23.35	23.29	33	PASS
GPRS1900	810	1	28.96	28.9	33	PASS
GPRS1900	810	2	27.19	27.13	33	PASS
GPRS1900	810	3	25.39	25.33	33	PASS
GPRS1900	810	4	23.38	23.32	33	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GPRS1900	512	0.58	13	PASS
GPRS1900	661	0.52	13	PASS
GPRS1900	810	0.58	13	PASS

Test Graphs

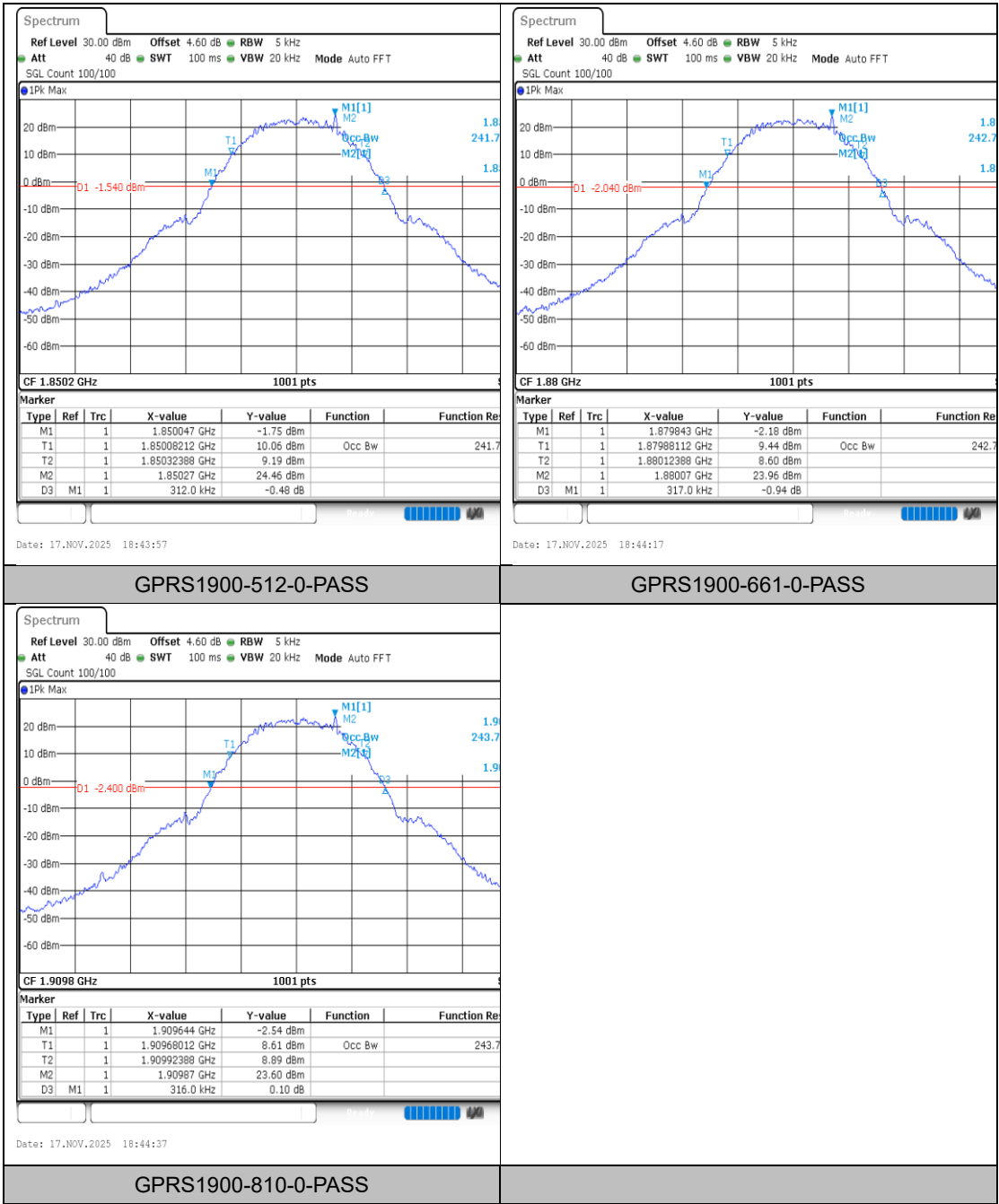


26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS1900	512	0.242	0.31	---	PASS
GPRS1900	661	0.243	0.32	---	PASS
GPRS1900	810	0.244	0.32	---	PASS

Test Graphs

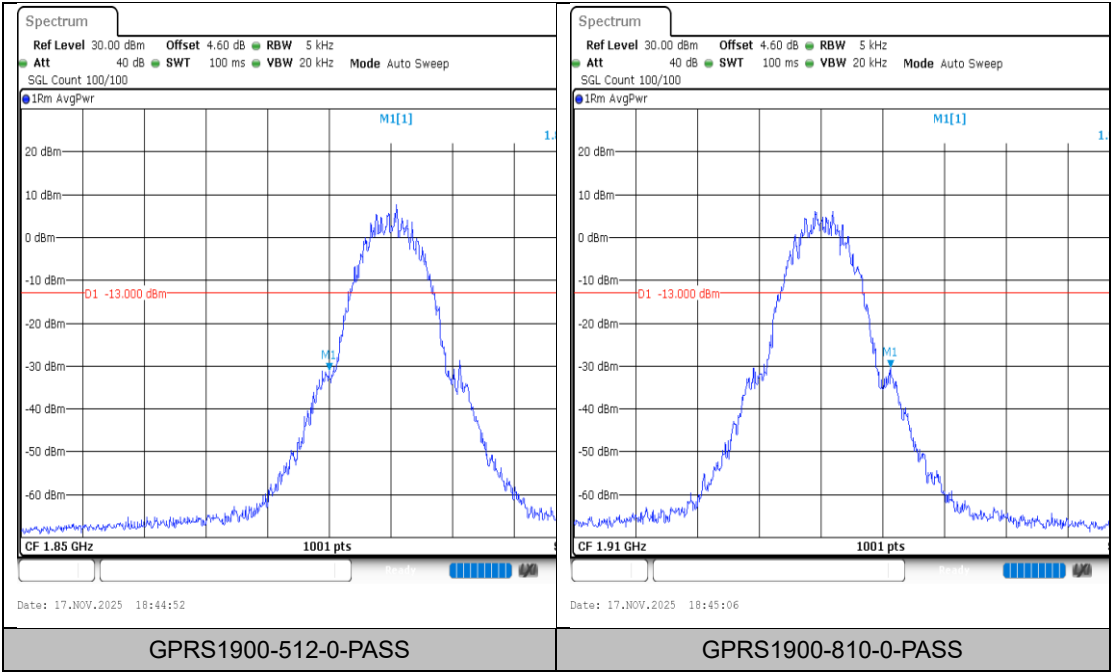


Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GPRS1900	512	1850.00	-30.92	-13	PASS
GPRS1900	810	1910.03	-30.35	-13	PASS

Test Graphs

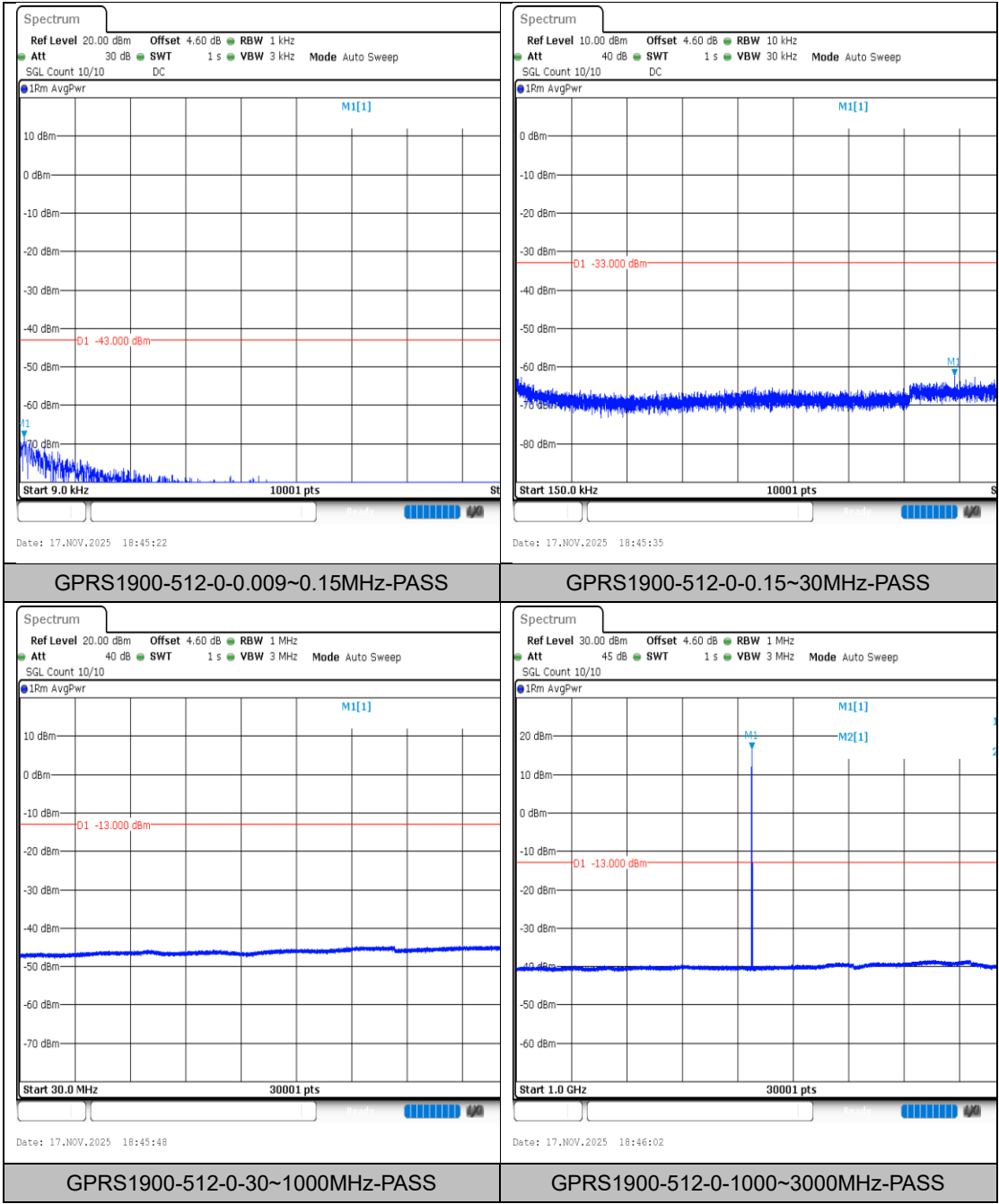


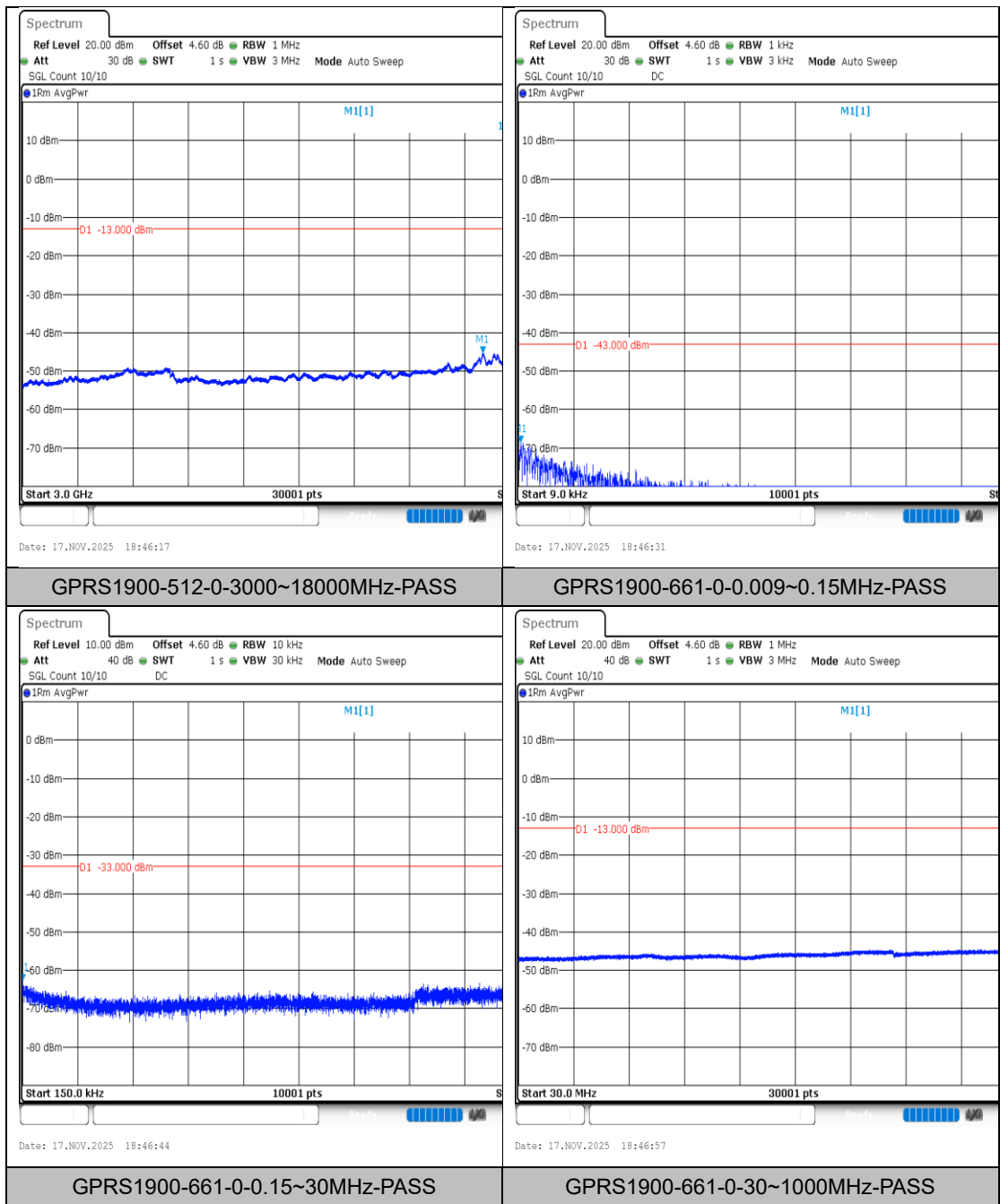
Conducted Spurious Emission

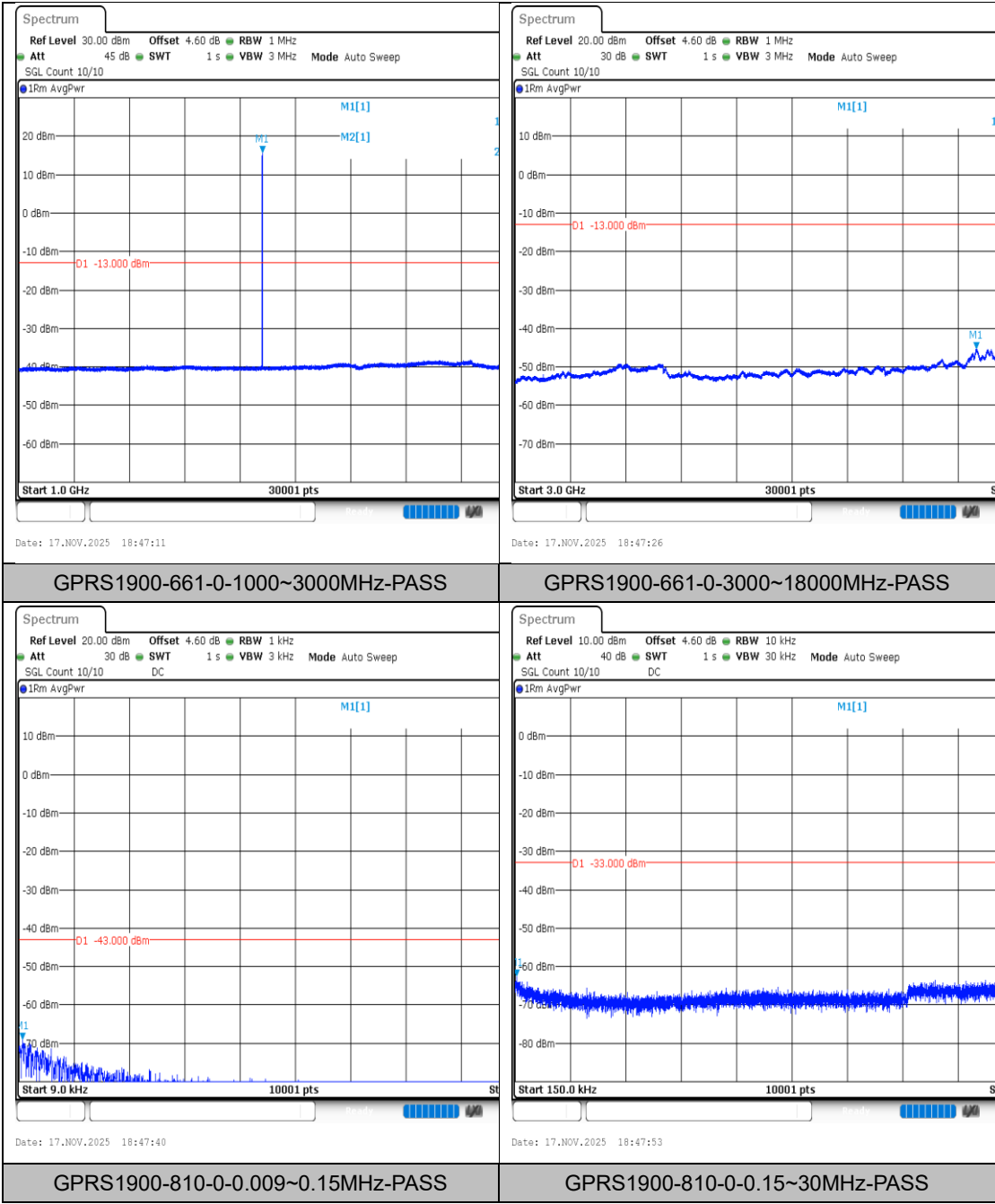
Test Result

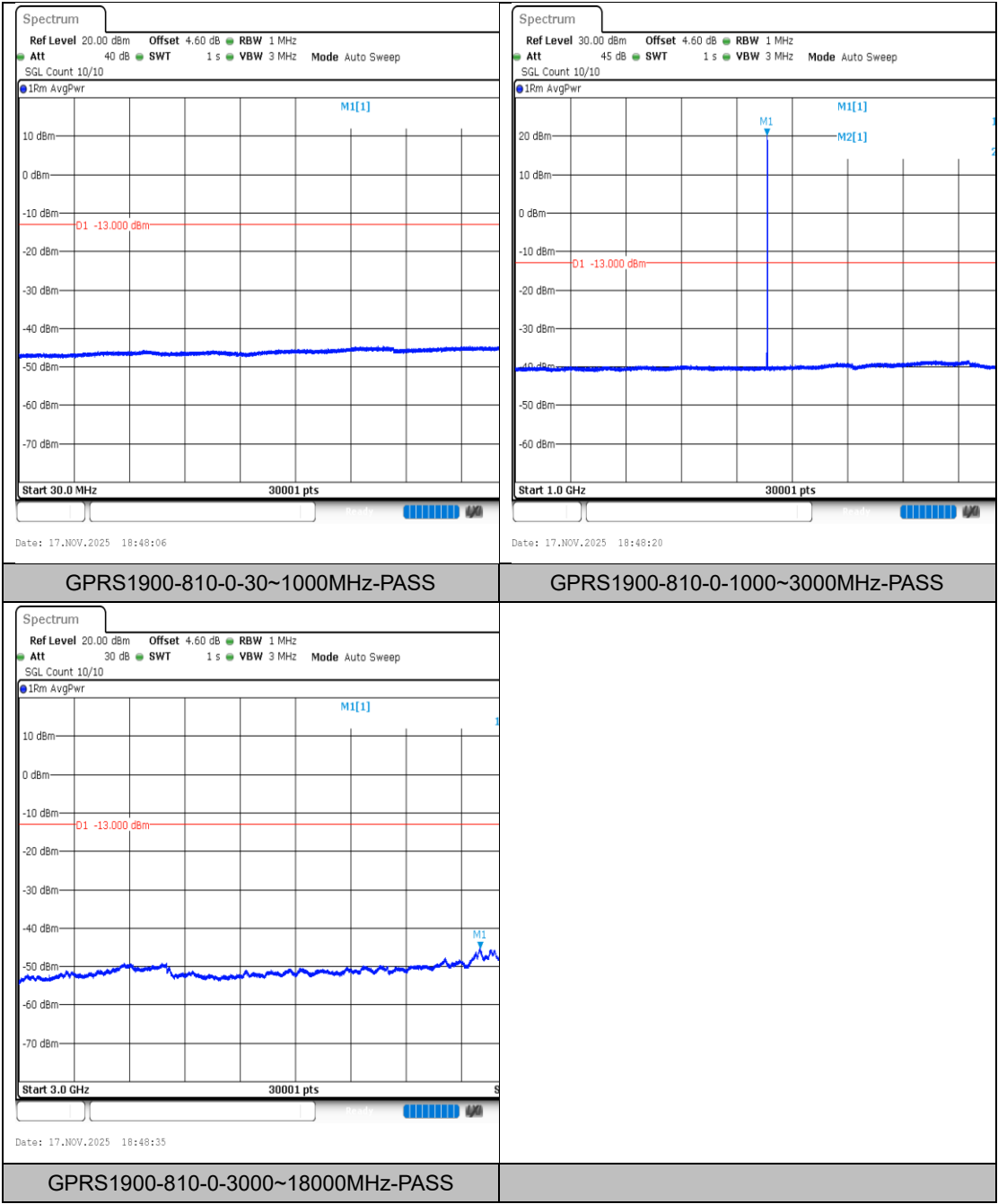
Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GPRS1900	512	0.009~0.15MHz	0.01	-68.25	-43	PASS
GPRS1900	512	0.15~30MHz	23.77	-62.3	-33	PASS
GPRS1900	512	30~1000MHz	977.13	-44.45	-13	PASS
GPRS1900	512	1000~3000MHz	2997.67	-38.28	-13	PASS
GPRS1900	512	3000~18000MHz	15493.83	-45.31	-13	PASS
GPRS1900	661	0.009~0.15MHz	0.01	-68.47	-43	PASS
GPRS1900	661	0.15~30MHz	0.16	-62.78	-33	PASS
GPRS1900	661	30~1000MHz	940.36	-44.37	-13	PASS
GPRS1900	661	1000~3000MHz	2991	-38.24	-13	PASS
GPRS1900	661	3000~18000MHz	15502.33	-45.25	-13	PASS
GPRS1900	810	0.009~0.15MHz	0.01	-68.91	-43	PASS
GPRS1900	810	0.15~30MHz	0.22	-62.43	-33	PASS
GPRS1900	810	30~1000MHz	938.17	-44.23	-13	PASS
GPRS1900	810	1000~3000MHz	2973.13	-38.32	-13	PASS
GPRS1900	810	3000~18000MHz	15514.33	-45.28	-13	PASS

Test Graphs









Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS1900	512	VN	NT	2500.00	1.351205	±2.5	PASS
GPRS1900	512	VL	NT	2500.00	1.351205	±2.5	PASS
GPRS1900	512	VH	NT	2750.00	1.486326	±2.5	PASS
GPRS1900	661	VN	NT	2500.00	1.329787	±2.5	PASS
GPRS1900	661	VL	NT	2500.00	1.329787	±2.5	PASS
GPRS1900	661	VH	NT	2750.00	1.462766	±2.5	PASS
GPRS1900	810	VN	NT	2750.00	1.439941	±2.5	PASS
GPRS1900	810	VL	NT	2750.00	1.439941	±2.5	PASS
GPRS1900	810	VH	NT	2250.00	1.178134	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS1900	512	NV	-30	2250.00	1.216085	±2.5	PASS
GPRS1900	512	NV	-20	2750.00	1.486326	±2.5	PASS
GPRS1900	512	NV	-10	2500.00	1.351205	±2.5	PASS
GPRS1900	512	NV	0	2250.00	1.216085	±2.5	PASS
GPRS1900	512	NV	10	2500.00	1.351205	±2.5	PASS
GPRS1900	512	NV	20	2500.00	1.351205	±2.5	PASS
GPRS1900	512	NV	30	2750.00	1.486326	±2.5	PASS
GPRS1900	512	NV	40	2750.00	1.486326	±2.5	PASS
GPRS1900	512	NV	50	3000.00	1.621446	±2.5	PASS
GPRS1900	661	NV	-30	2500.00	1.329787	±2.5	PASS
GPRS1900	661	NV	-20	3000.00	1.595745	±2.5	PASS
GPRS1900	661	NV	-10	2500.00	1.329787	±2.5	PASS
GPRS1900	661	NV	0	2750.00	1.462766	±2.5	PASS
GPRS1900	661	NV	10	2750.00	1.462766	±2.5	PASS
GPRS1900	661	NV	20	2750.00	1.462766	±2.5	PASS
GPRS1900	661	NV	30	2500.00	1.329787	±2.5	PASS
GPRS1900	661	NV	40	2750.00	1.462766	±2.5	PASS
GPRS1900	661	NV	50	2250.00	1.196809	±2.5	PASS
GPRS1900	810	NV	-30	2500.00	1.309038	±2.5	PASS
GPRS1900	810	NV	-20	2750.00	1.439941	±2.5	PASS
GPRS1900	810	NV	-10	2500.00	1.309038	±2.5	PASS

GPRS1900	810	NV	0	2750.00	1.439941	±2.5	PASS
GPRS1900	810	NV	10	2750.00	1.439941	±2.5	PASS
GPRS1900	810	NV	20	2750.00	1.439941	±2.5	PASS
GPRS1900	810	NV	30	2500.00	1.309038	±2.5	PASS
GPRS1900	810	NV	40	2750.00	1.439941	±2.5	PASS
GPRS1900	810	NV	50	2750.00	1.439941	±2.5	PASS

Effective (Isotropic) Radiated Power Output Data

Test Result

Select the higher-powered ANT 1 as the final data.

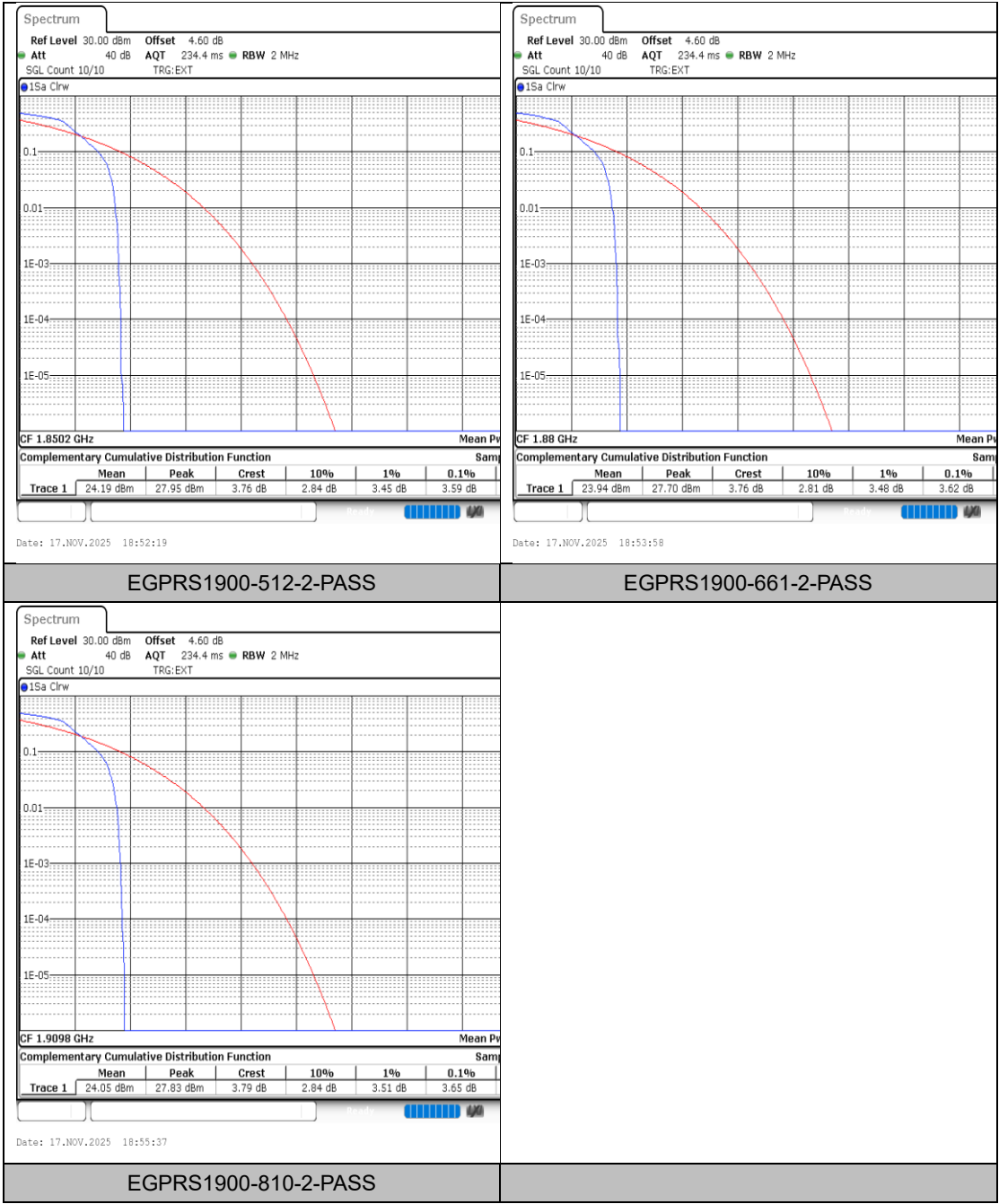
Band	Channel	Up Slot Num	Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	26.42	26.36	33	PASS
EGPRS1900	512	2	24.39	24.33	33	PASS
EGPRS1900	512	3	21.97	21.91	33	PASS
EGPRS1900	512	4	19.14	19.08	33	PASS
EGPRS1900	661	1	25.91	25.85	33	PASS
EGPRS1900	661	2	24.00	23.94	33	PASS
EGPRS1900	661	3	21.39	21.33	33	PASS
EGPRS1900	661	4	18.77	18.71	33	PASS
EGPRS1900	810	1	26.00	25.94	33	PASS
EGPRS1900	810	2	23.91	23.85	33	PASS
EGPRS1900	810	3	21.33	21.27	33	PASS
EGPRS1900	810	4	18.54	18.48	33	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
EGPRS1900	512	3.59	13	PASS
EGPRS1900	661	3.62	13	PASS
EGPRS1900	810	3.65	13	PASS

Test Graphs

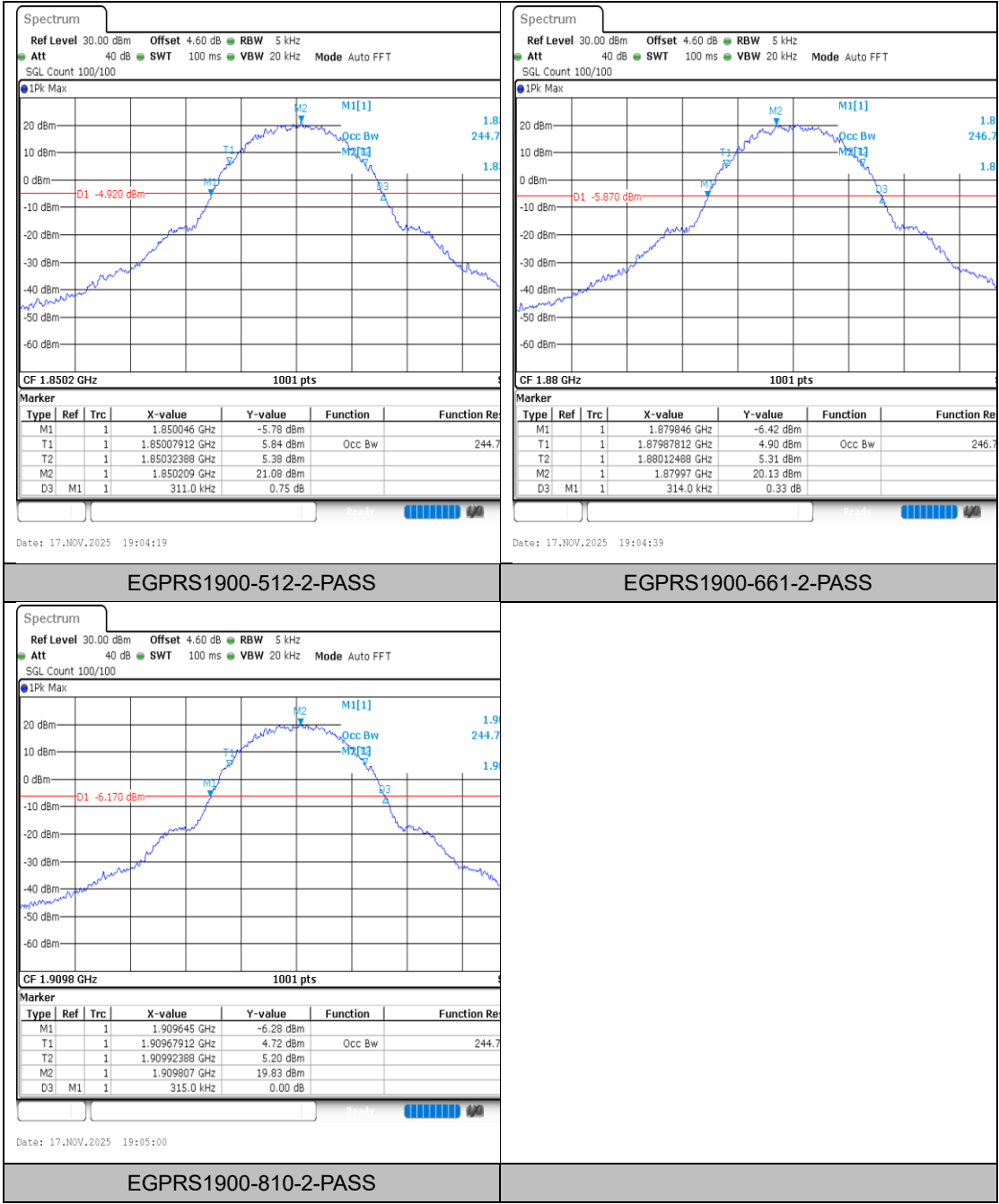


26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
EGPRS1900	512	0.245	0.31	---	PASS
EGPRS1900	661	0.247	0.31	---	PASS
EGPRS1900	810	0.245	0.32	---	PASS

Test Graphs

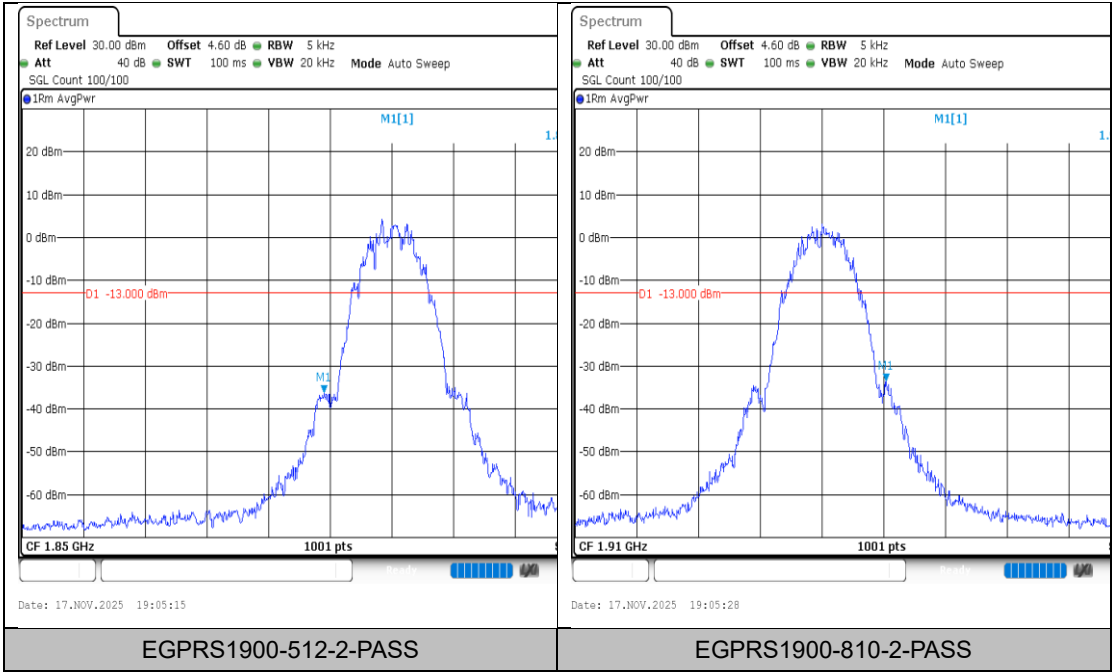


Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1849.98	-36.18	-13	PASS
EGPRS1900	810	1910.01	-33.48	-13	PASS

Test Graphs

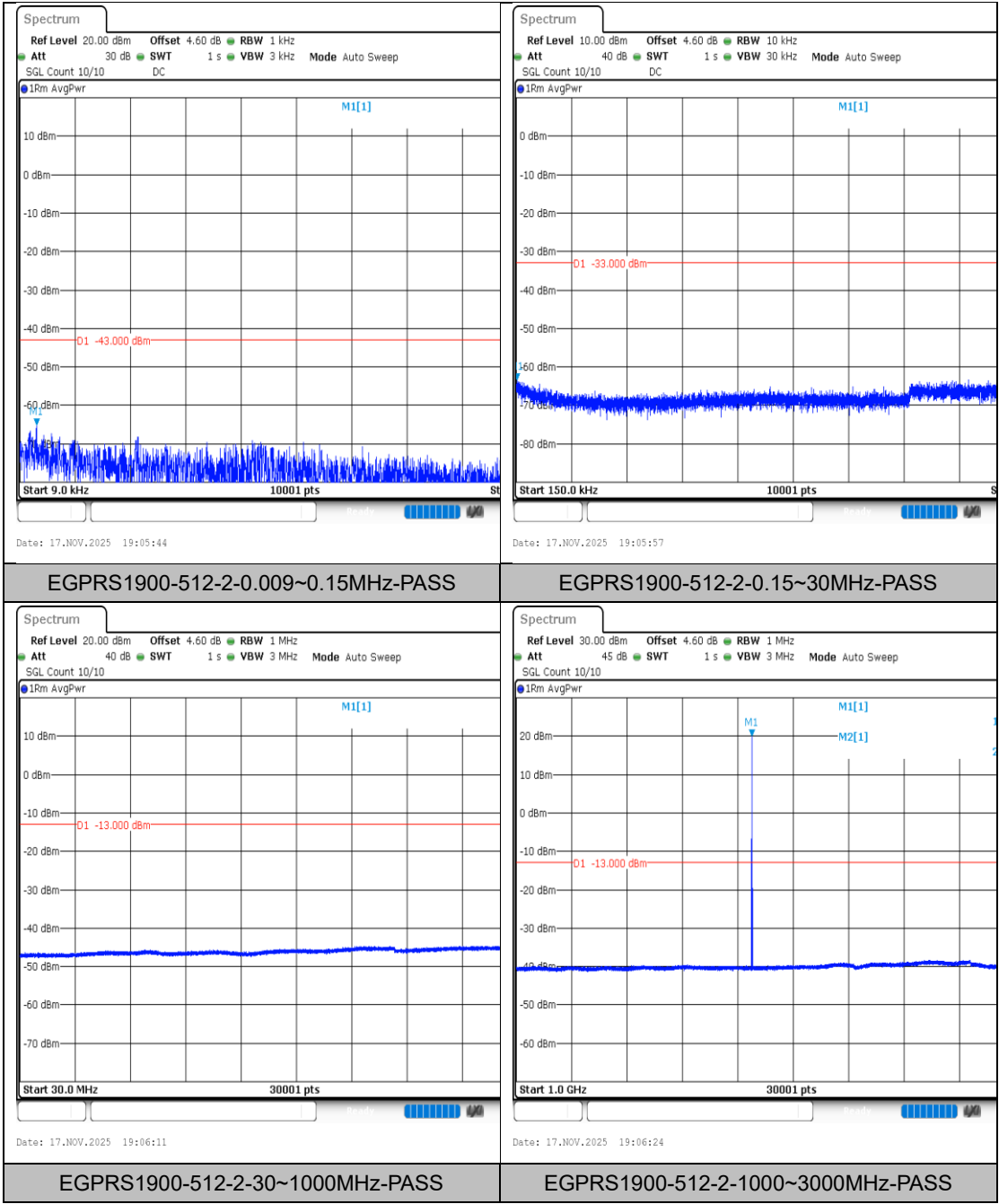


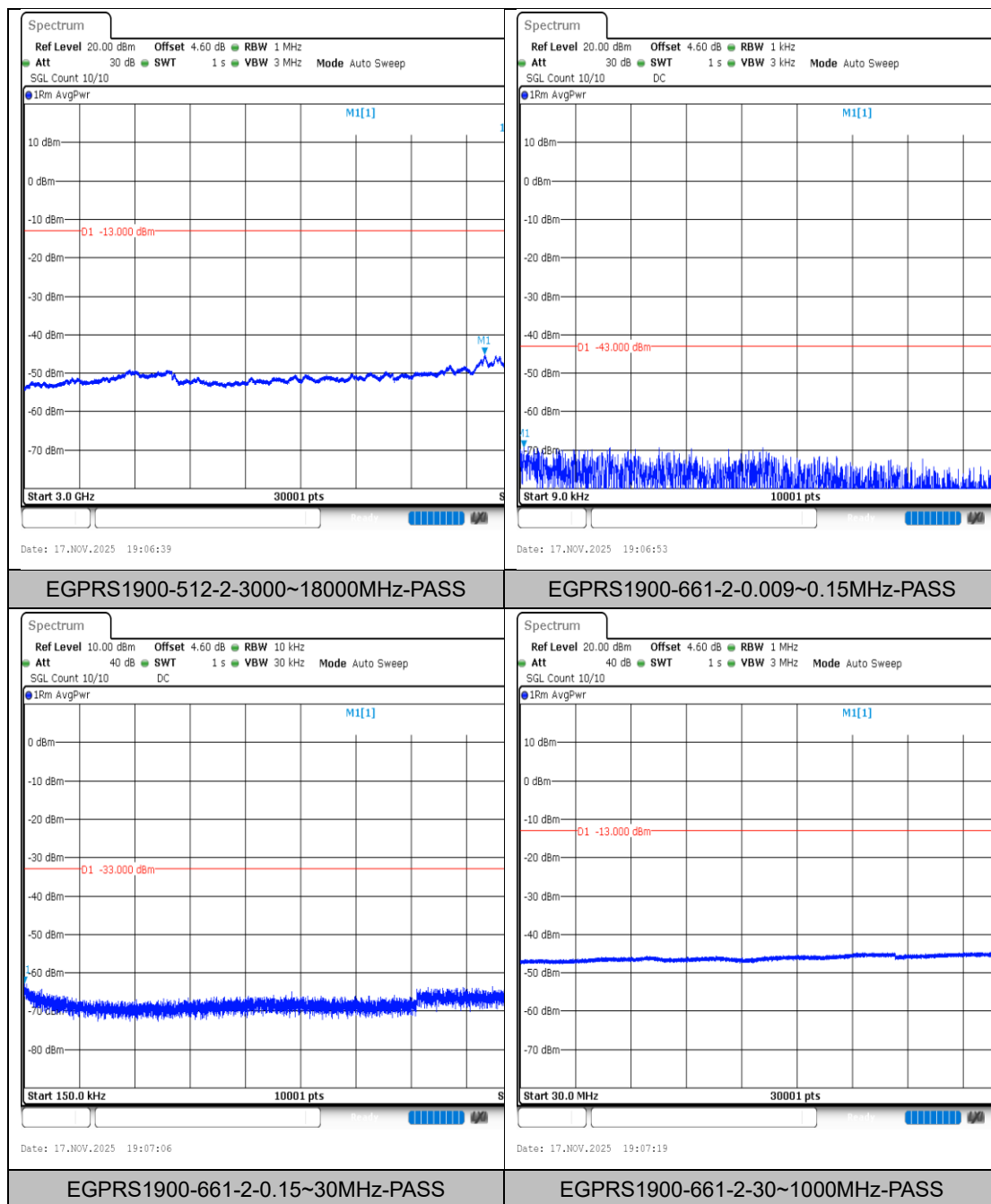
Conducted Spurious Emission

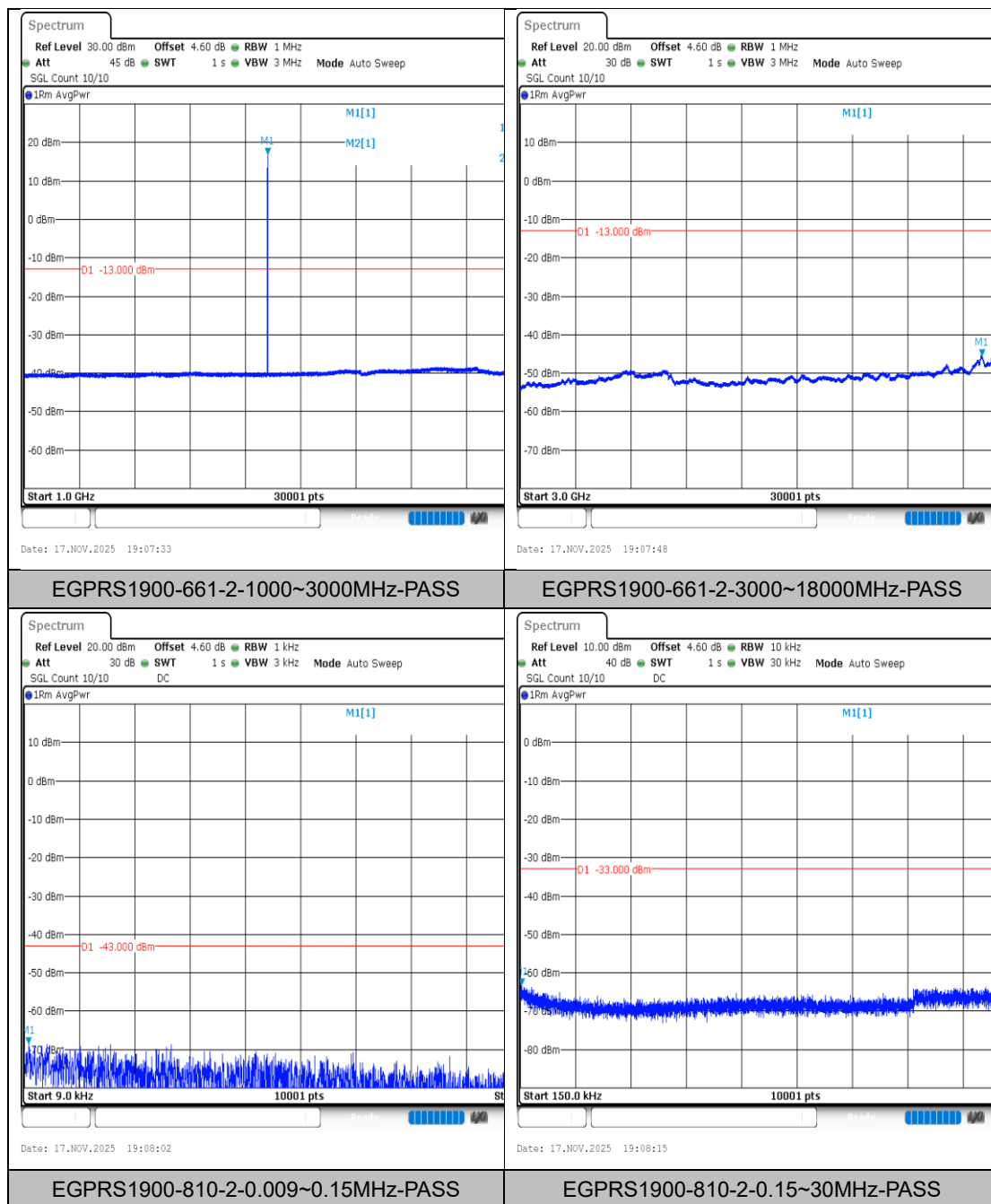
Test Result

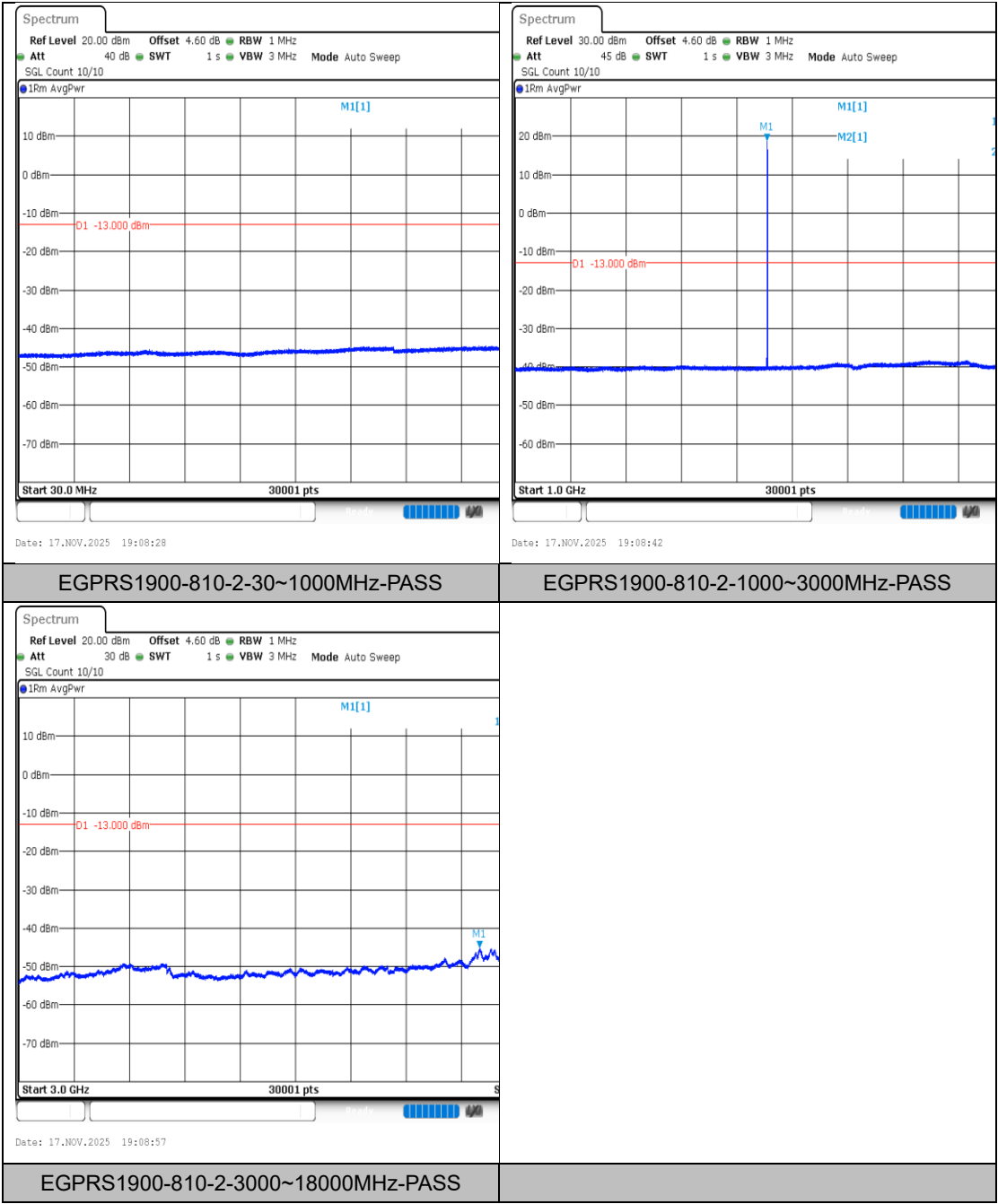
Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
EGPRS1900	512	0.009~0.15MHz	0.01	-65.16	-43	PASS
EGPRS1900	512	0.15~30MHz	0.19	-63.44	-33	PASS
EGPRS1900	512	30~1000MHz	972.21	-44.39	-13	PASS
EGPRS1900	512	1000~3000MHz	2995.27	-38.26	-13	PASS
EGPRS1900	512	3000~18000MHz	15501.33	-45.12	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.01	-69.06	-43	PASS
EGPRS1900	661	0.15~30MHz	0.15	-62.64	-33	PASS
EGPRS1900	661	30~1000MHz	903.34	-44.48	-13	PASS
EGPRS1900	661	1000~3000MHz	2991.33	-38.34	-13	PASS
EGPRS1900	661	3000~18000MHz	15505.83	-45.4	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.01	-68.51	-43	PASS
EGPRS1900	810	0.15~30MHz	0.22	-63.19	-33	PASS
EGPRS1900	810	30~1000MHz	937.23	-44.48	-13	PASS
EGPRS1900	810	1000~3000MHz	2969.87	-38.19	-13	PASS
EGPRS1900	810	3000~18000MHz	15500.83	-45.1	-13	PASS

Test Graphs









Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
EGPRS1900	512	VN	NT	1500.00	0.810723	±2.5	PASS
EGPRS1900	512	VL	NT	1750.00	0.945844	±2.5	PASS
EGPRS1900	512	VH	NT	1750.00	0.945844	±2.5	PASS
EGPRS1900	661	VN	NT	2000.00	1.063830	±2.5	PASS
EGPRS1900	661	VL	NT	2000.00	1.063830	±2.5	PASS
EGPRS1900	661	VH	NT	2000.00	1.063830	±2.5	PASS
EGPRS1900	810	VN	NT	2000.00	1.047230	±2.5	PASS
EGPRS1900	810	VL	NT	2250.00	1.178134	±2.5	PASS
EGPRS1900	810	VH	NT	1750.00	0.916326	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
EGPRS1900	512	NV	-30	2250.00	1.216085	±2.5	PASS
EGPRS1900	512	NV	-20	2250.00	1.216085	±2.5	PASS
EGPRS1900	512	NV	-10	2000.00	1.080964	±2.5	PASS
EGPRS1900	512	NV	0	2000.00	1.080964	±2.5	PASS
EGPRS1900	512	NV	10	1250.00	0.675603	±2.5	PASS
EGPRS1900	512	NV	20	2000.00	1.080964	±2.5	PASS
EGPRS1900	512	NV	30	1750.00	0.945844	±2.5	PASS

0							
EGPRS190 0	512	NV	40	2000.00	1.080964	±2.5	PASS
EGPRS190 0	512	NV	50	2000.00	1.080964	±2.5	PASS
EGPRS190 0	661	NV	-30	2250.00	1.196809	±2.5	PASS
EGPRS190 0	661	NV	-20	2250.00	1.196809	±2.5	PASS
EGPRS190 0	661	NV	-10	2500.00	1.329787	±2.5	PASS
EGPRS190 0	661	NV	0	2250.00	1.196809	±2.5	PASS
EGPRS190 0	661	NV	10	1750.00	0.930851	±2.5	PASS
EGPRS190 0	661	NV	20	2250.00	1.196809	±2.5	PASS
EGPRS190 0	661	NV	30	2250.00	1.196809	±2.5	PASS
EGPRS190 0	661	NV	40	1750.00	0.930851	±2.5	PASS
EGPRS190 0	661	NV	50	1750.00	0.930851	±2.5	PASS
EGPRS190 0	810	NV	-30	2000.00	1.047230	±2.5	PASS
EGPRS190 0	810	NV	-20	1750.00	0.916326	±2.5	PASS
EGPRS190 0	810	NV	-10	2000.00	1.047230	±2.5	PASS
EGPRS190 0	810	NV	0	1500.00	0.785423	±2.5	PASS
EGPRS190 0	810	NV	10	2000.00	1.047230	±2.5	PASS
EGPRS190 0	810	NV	20	2000.00	1.047230	±2.5	PASS
EGPRS190 0	810	NV	30	1750.00	0.916326	±2.5	PASS
EGPRS190 0	810	NV	40	2000.00	1.047230	±2.5	PASS
EGPRS190 0	810	NV	50	1750.00	0.916326	±2.5	PASS