

APPENDIX A. CONDUCTED TEST – GSM

CONDUCTED POWER & EFFECTIVE RADIATED POWER

Test Result

Band	Max Conducted Power (dBm)	ERP/EIRP (dBm)	Limit (dBm)	Verdict
GSM850	32.45	29.93	34.77	PASS
PCS1900	29.47	31.66	33	PASS

Band: GSM850	Measured (dBm)		
Test Condition	TNVN		
Channel	128	190	251
Frequency (MHz)	824.2	836.6	848.8
GSM (GMSK, 1 Tx slot)	32.44	32.39	32.28
GPRS (GMSK, 1 Tx slot)	32.45	32.38	32.26
GPRS (GMSK, 2 Tx slots)	29.98	29.97	29.88
GPRS (GMSK, 3 Tx slots)	28.48	28.49	28.40
GPRS (GMSK, 4 Tx slots)	26.79	26.83	26.77
EDGE (8PSK, 1 Tx slot)	27.80	27.79	27.58
EDGE (8PSK, 2 Tx slots)	24.91	25.01	24.81
EDGE (8PSK, 3 Tx slots)	23.14	23.23	23.09
EDGE (8PSK, 4 Tx slots)	21.47	21.60	21.37

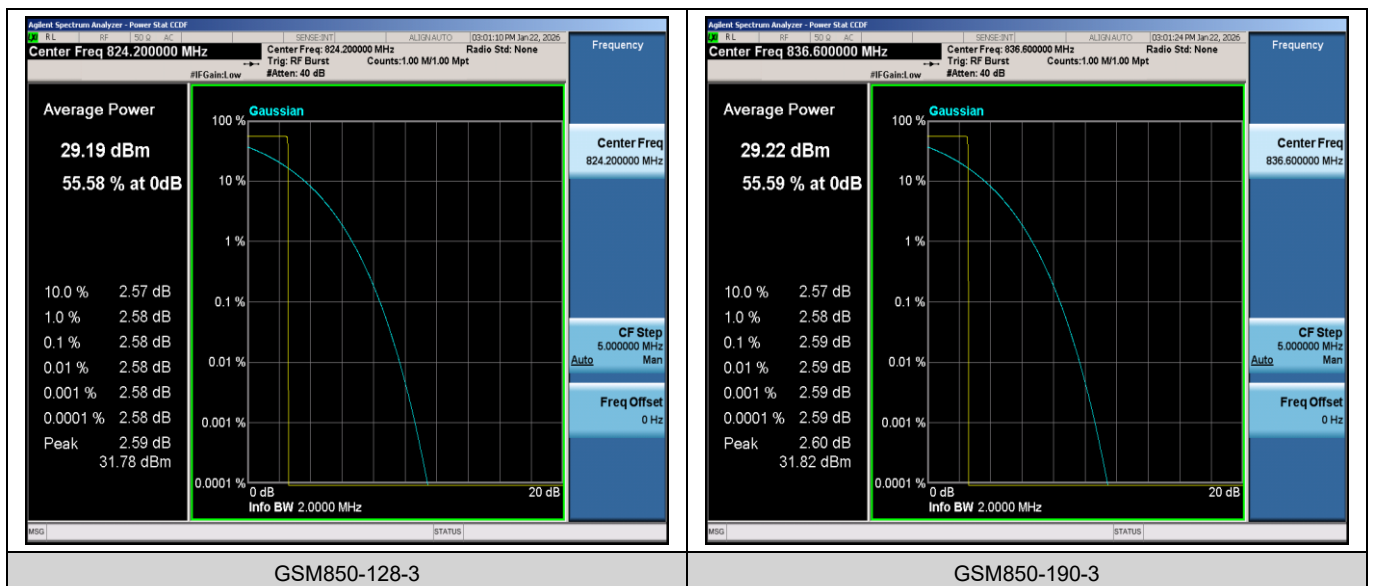
Band: PCS1900	Measured (dBm)		
Test Condition	TNVN		
Channel	512	661	810
Frequency (MHz)	1850.2	1880	1909.8
GSM (GMSK, 1 Tx slot)	29.47	29.09	28.68
GPRS (GMSK, 1 Tx slot)	29.46	29.09	28.67
GPRS (GMSK, 2 Tx slots)	26.94	26.65	26.37
GPRS (GMSK, 3 Tx slots)	25.34	25.16	24.91
GPRS (GMSK, 4 Tx slots)	23.70	23.61	23.39
EDGE (8PSK, 1 Tx slot)	25.38	25.32	25.50
EDGE (8PSK, 2 Tx slots)	22.39	22.39	22.63
EDGE (8PSK, 3 Tx slots)	20.73	20.68	20.90
EDGE (8PSK, 4 Tx slots)	18.83	18.83	18.99

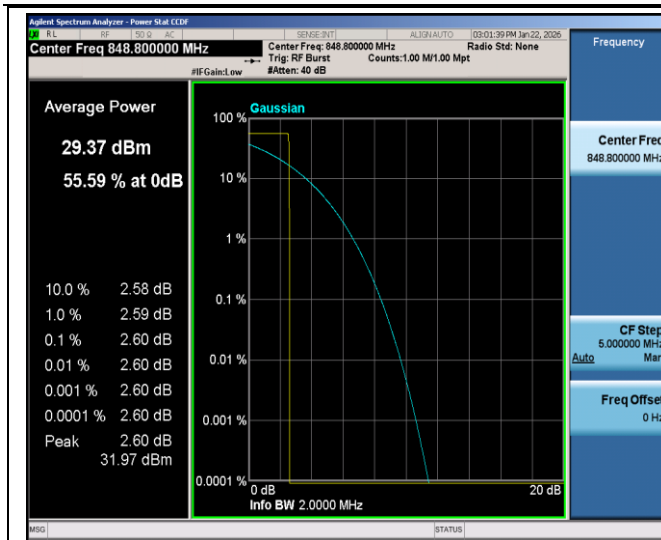
Peak-to-Average Ratio

Test Result

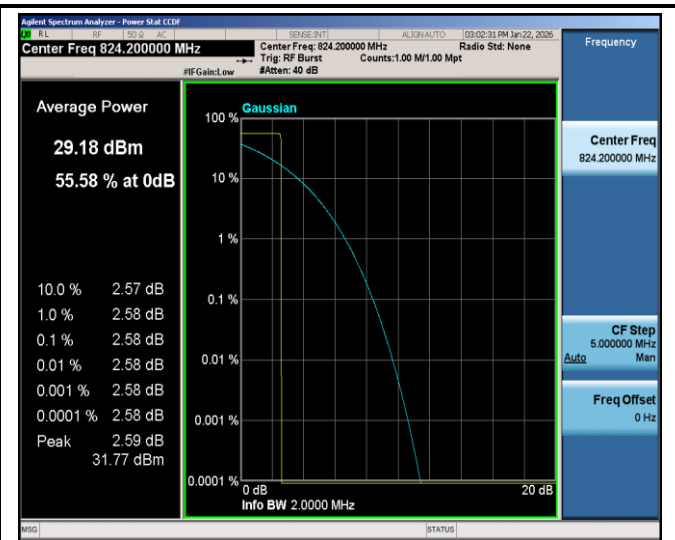
Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	2.58	13	PASS
GSM850	190	2.59	13	PASS
GSM850	251	2.6	13	PASS
GPRS850	128	2.58	13	PASS
GPRS850	190	2.59	13	PASS
GPRS850	251	2.6	13	PASS
EGPRS850	128	5.45	13	PASS
EGPRS850	190	5.46	13	PASS
EGPRS850	251	5.49	13	PASS
GSM1900	512	2.59	13	PASS
GSM1900	661	2.6	13	PASS
GSM1900	810	2.6	13	PASS
GPRS1900	512	2.59	13	PASS
GPRS1900	661	2.6	13	PASS
GPRS1900	810	2.6	13	PASS
EGPRS1900	512	5.43	13	PASS
EGPRS1900	661	5.39	13	PASS
EGPRS1900	810	5.36	13	PASS

Test Graphs

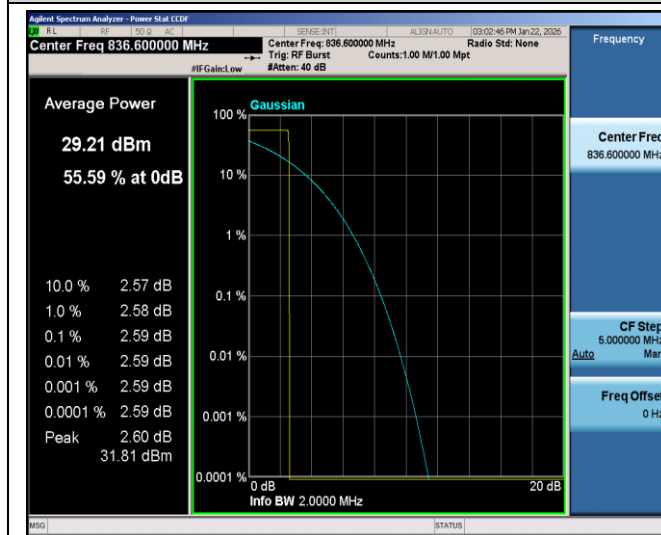




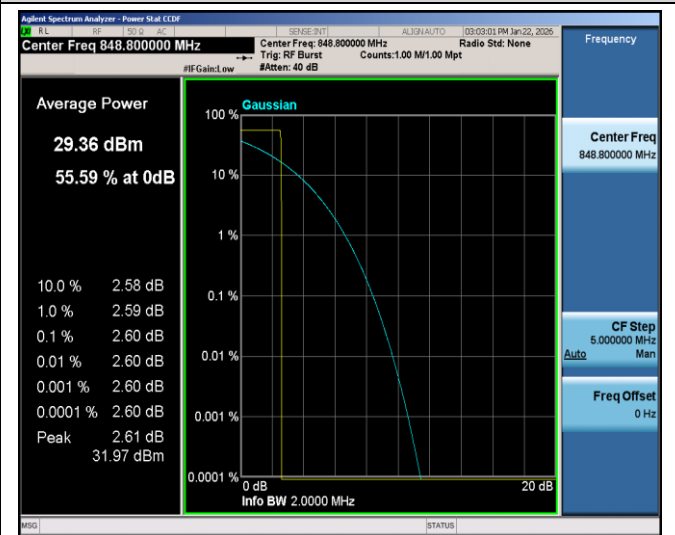
GSM850-251-3



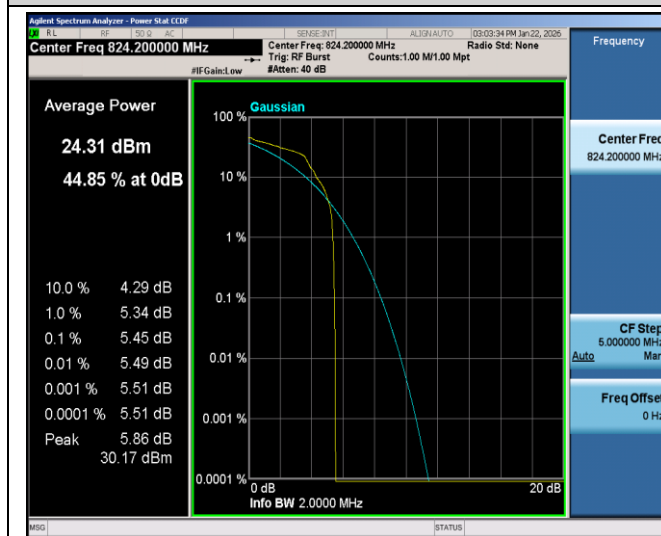
GPRS850-128-3



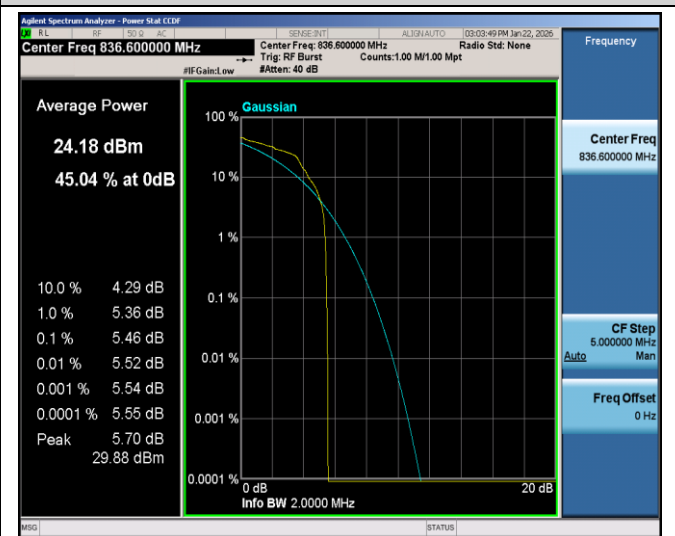
GPRS850-190-3



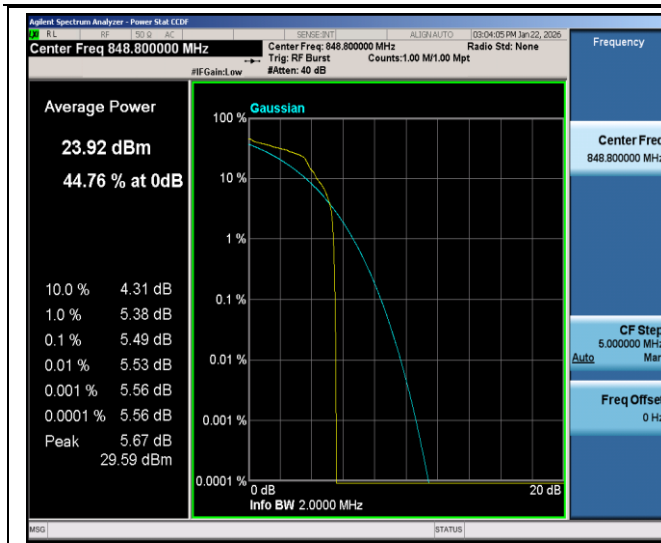
GPRS850-251-3



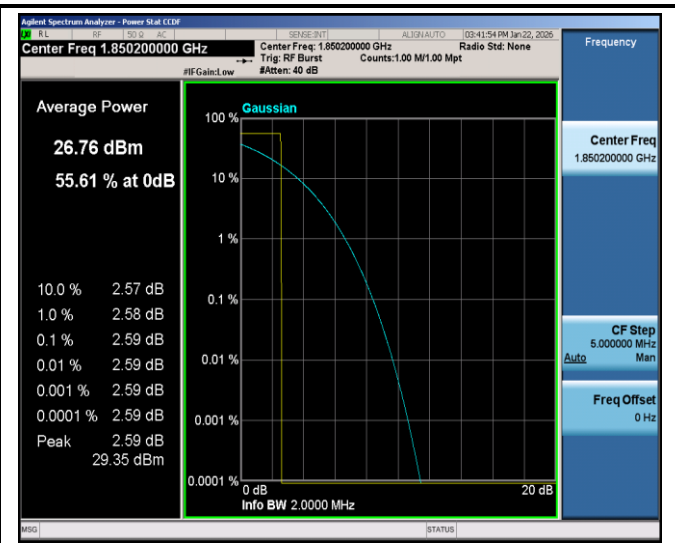
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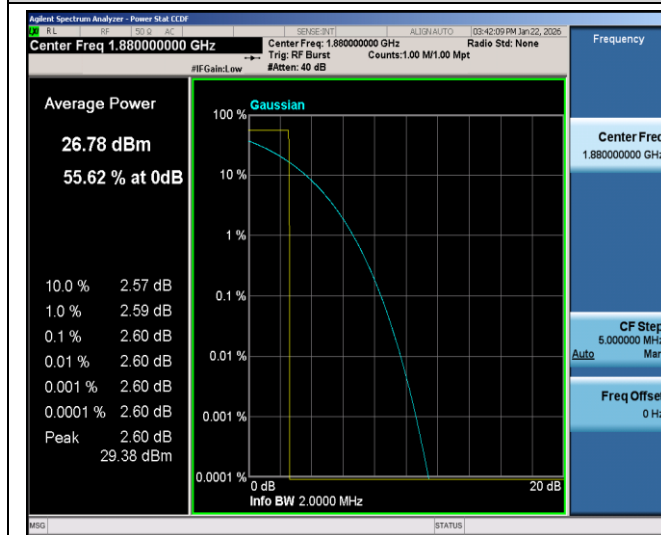
EGPRS850-190-8



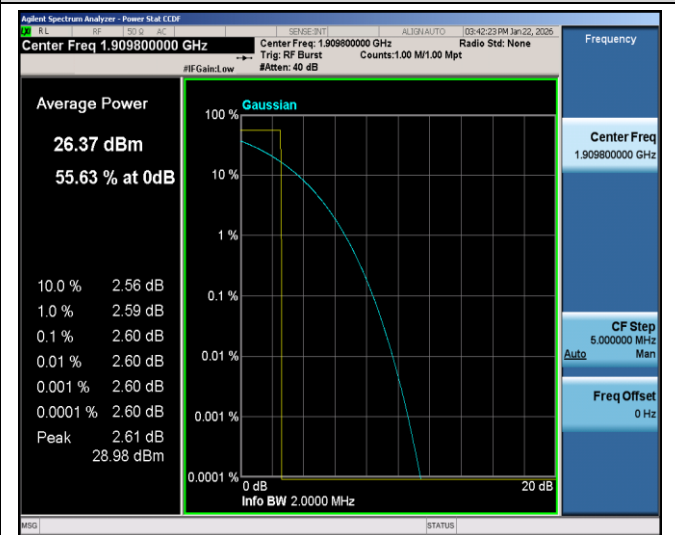
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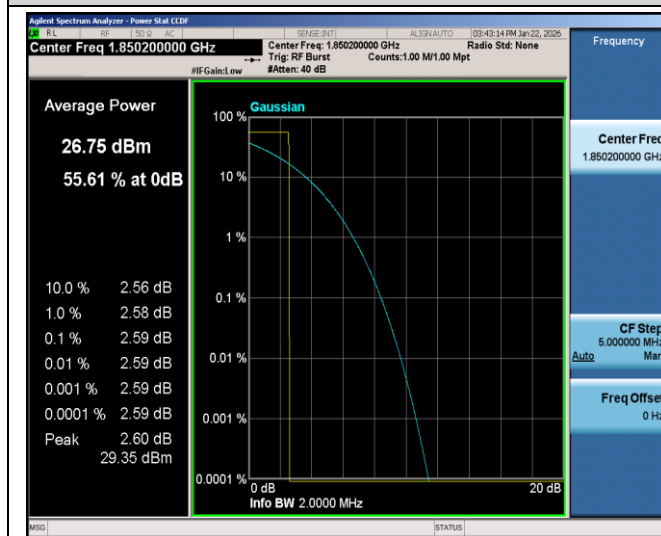
GSM1900-512-0



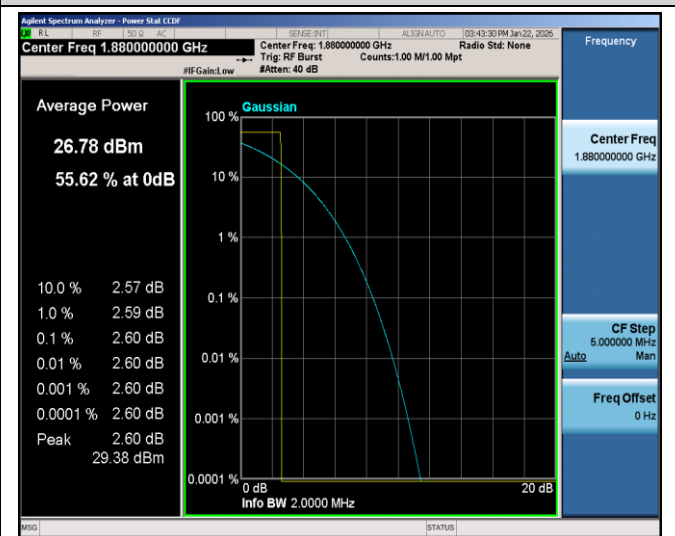
GSM1900-661-0



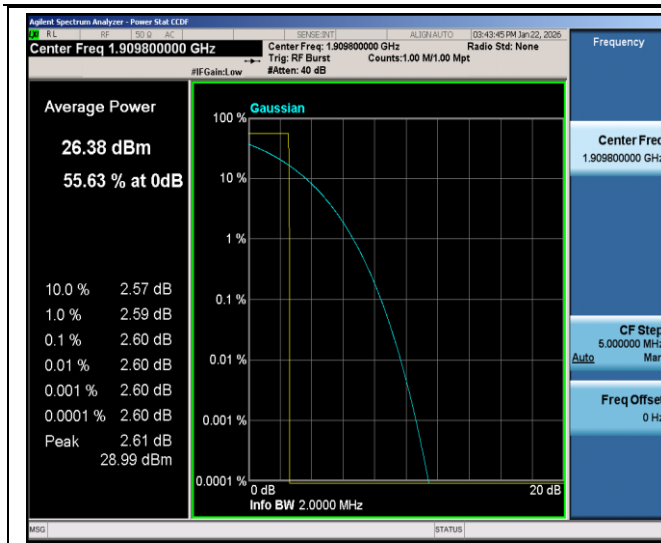
GSM1900-810-0



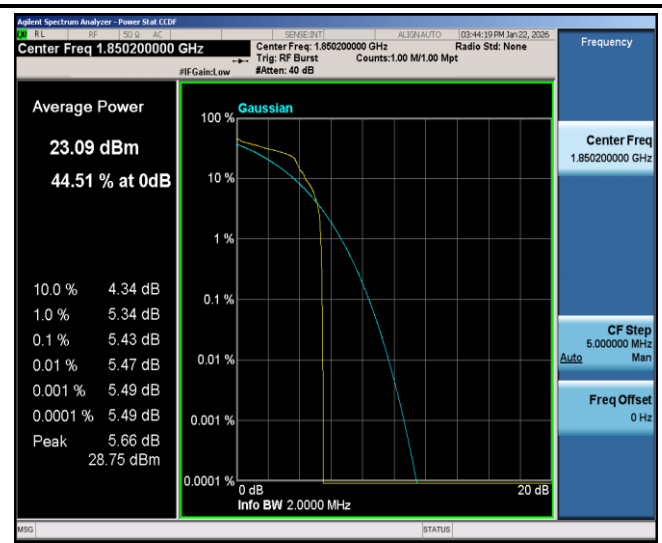
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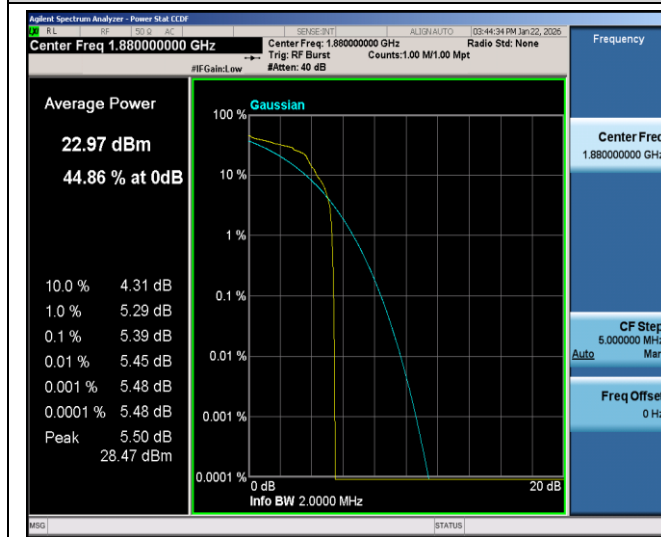
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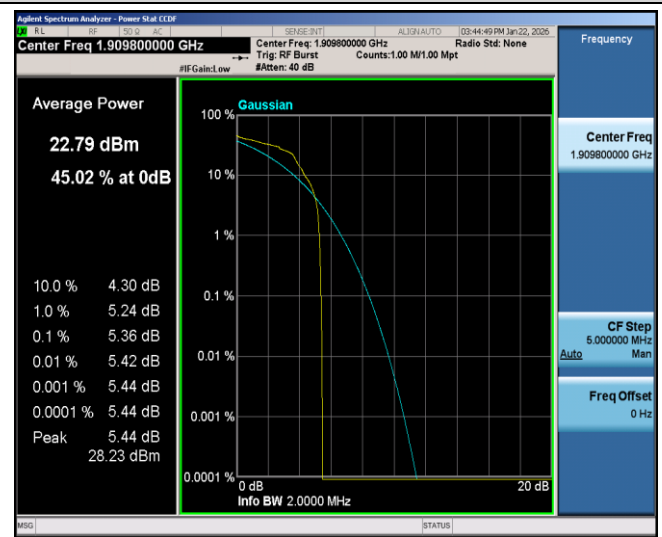
GPRS1900-810-0



EGPRS1900-512-2



EGPRS1900-661-2



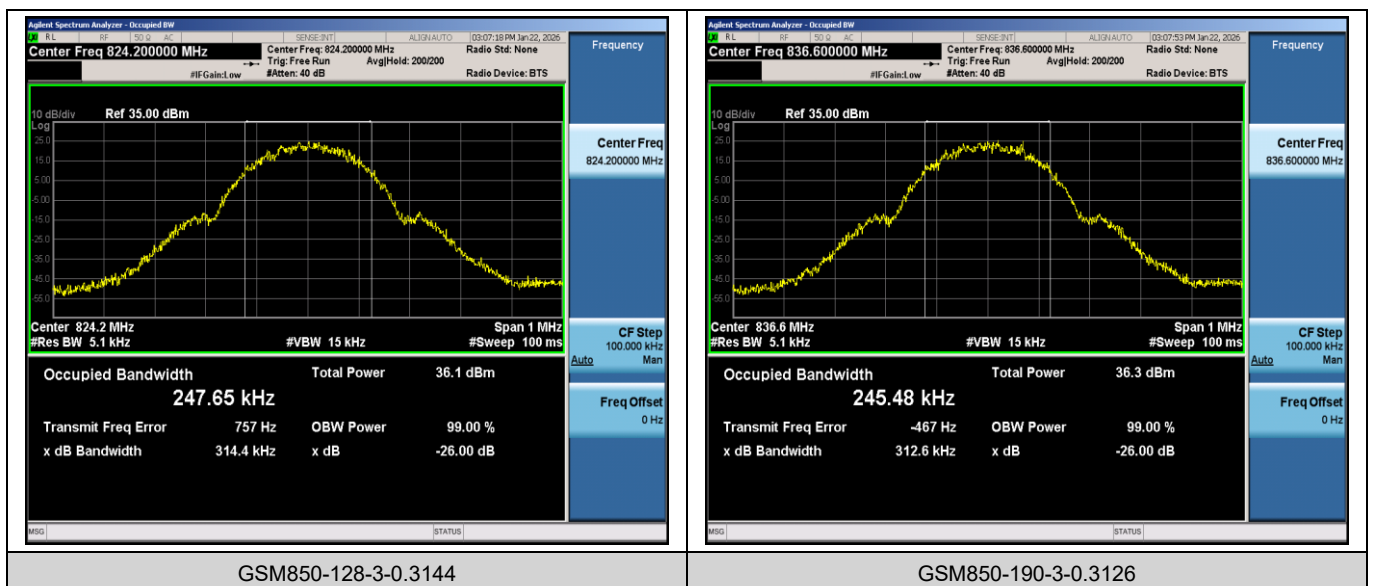
EGPRS1900-810-2

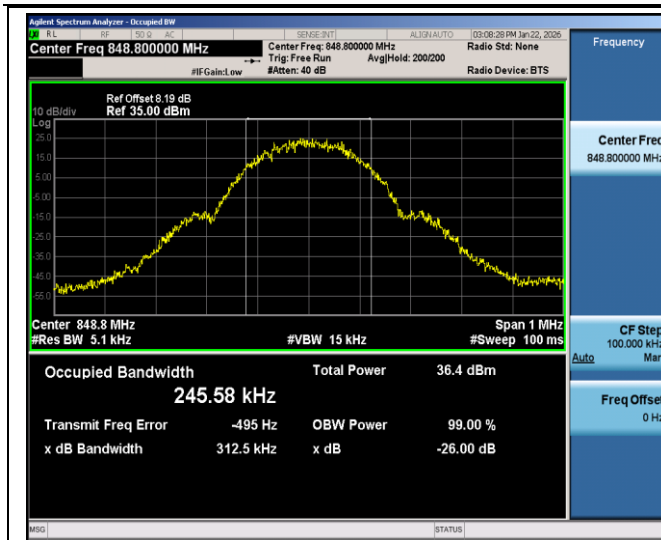
OCCUPIED BANDWIDTH

Test Result

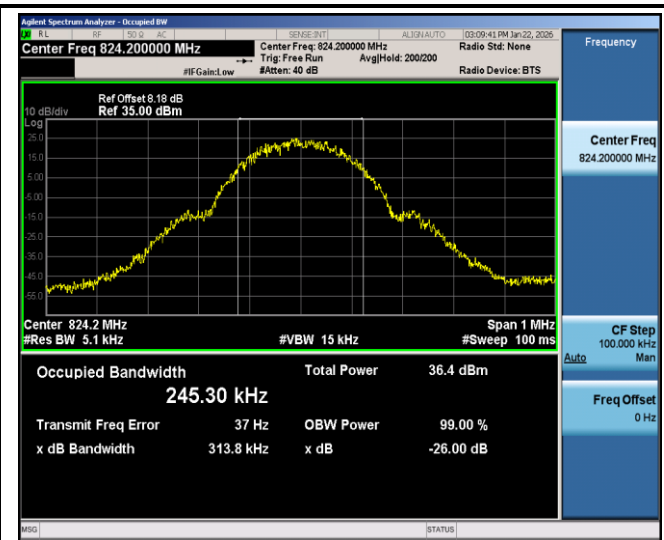
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
GSM850	128	0.24765	0.3144	PASS
GSM850	190	0.24548	0.3126	PASS
GSM850	251	0.24558	0.3125	PASS
GPRS850	128	0.24530	0.3138	PASS
GPRS850	190	0.24521	0.3142	PASS
GPRS850	251	0.24645	0.3159	PASS
EGPRS850	128	0.25460	0.3214	PASS
EGPRS850	190	0.25036	0.3077	PASS
EGPRS850	251	0.25008	0.3194	PASS
GSM1900	512	0.24398	0.3055	PASS
GSM1900	661	0.24574	0.3119	PASS
GSM1900	810	0.24520	0.3142	PASS
GPRS1900	512	0.24548	0.3152	PASS
GPRS1900	661	0.24441	0.3162	PASS
GPRS1900	810	0.24728	0.3096	PASS
EGPRS1900	512	0.25294	0.3154	PASS
EGPRS1900	661	0.24864	0.3156	PASS
EGPRS1900	810	0.25070	0.3171	PASS

Test Graphs

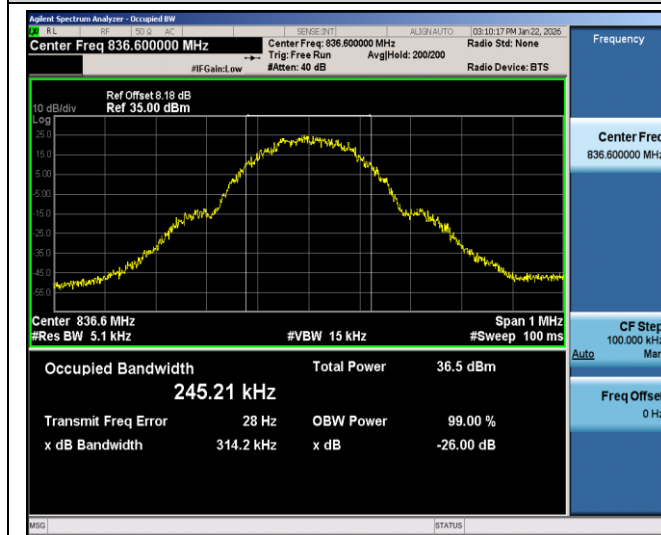




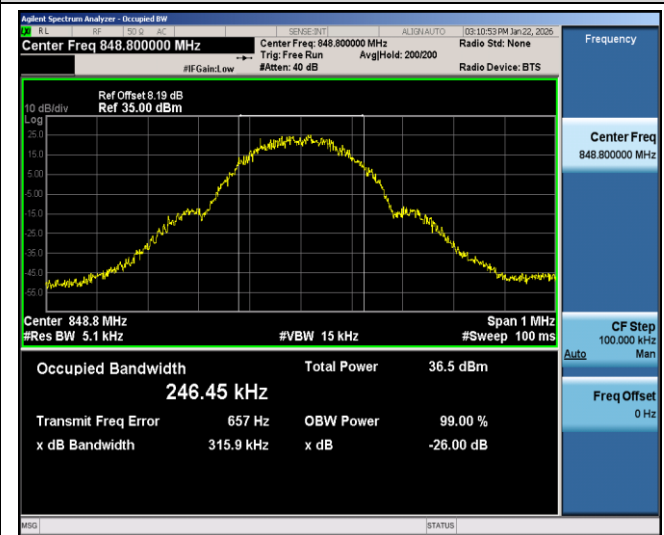
GSM850-251-3-0.3125



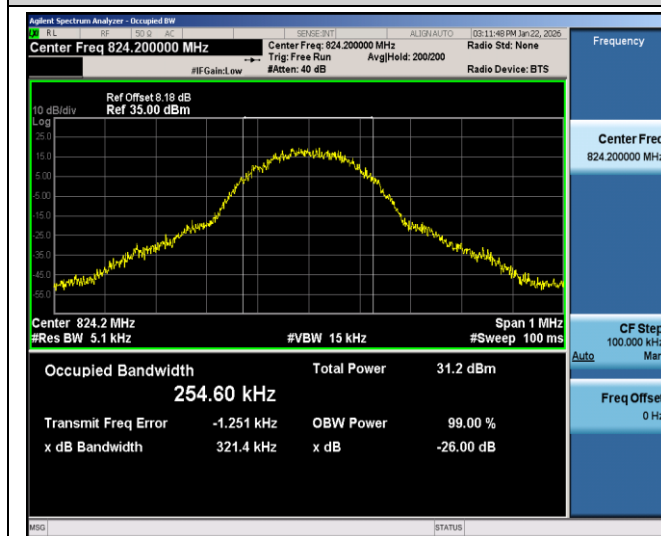
GPRS850-128-3-0.3138



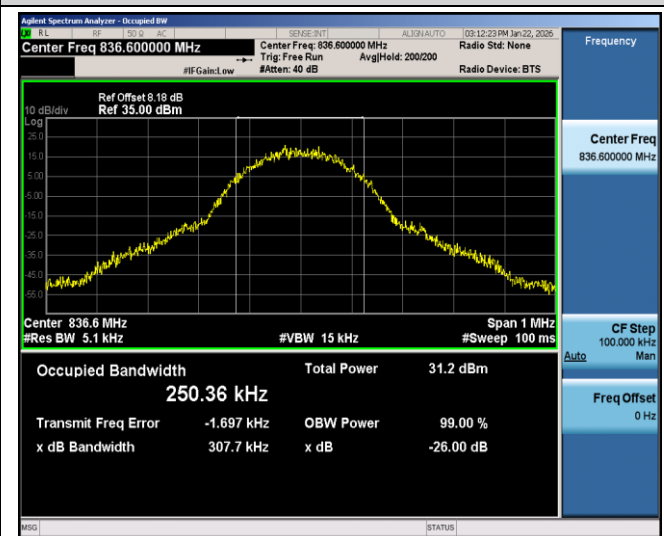
GPRS850-190-3-0.3142



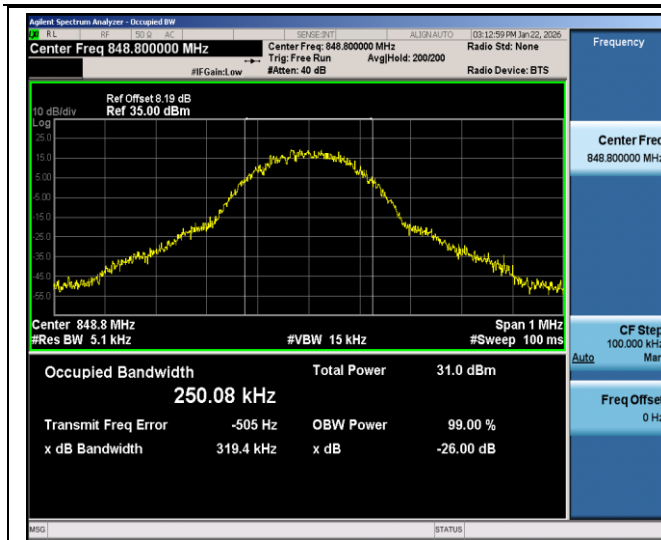
GPRS850-251-3-0.3159



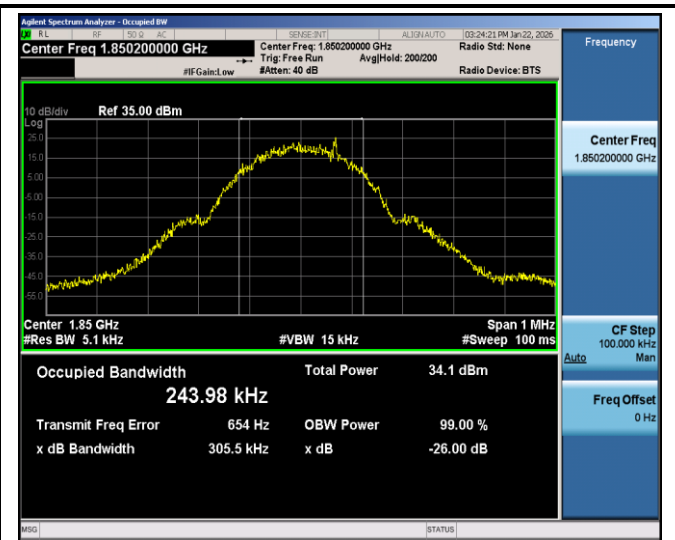
EGPRS850-128-8-0.3214



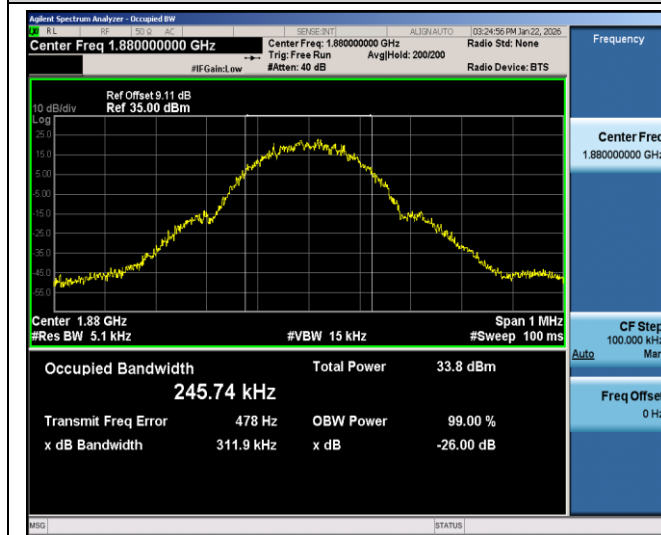
EGPRS850-190-8-0.3077



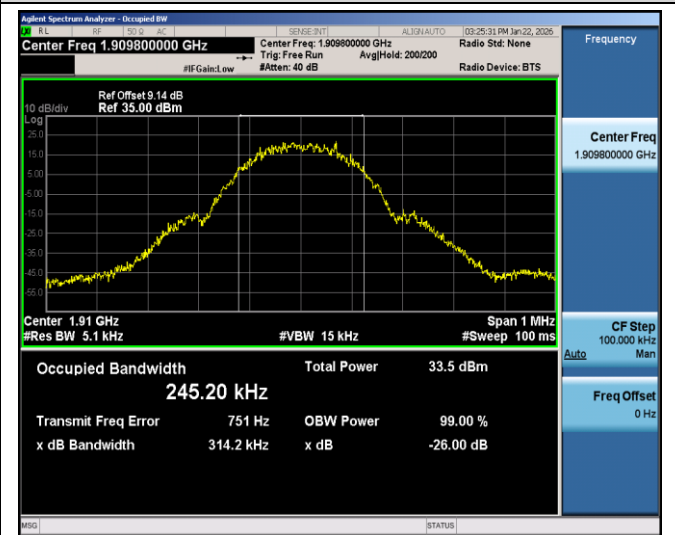
EGPRS850-251-8-0.3194



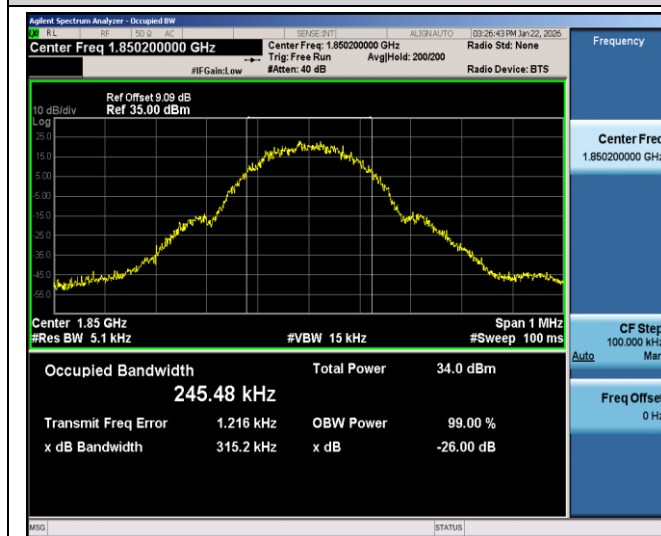
GSM1900-512-0-0.3055



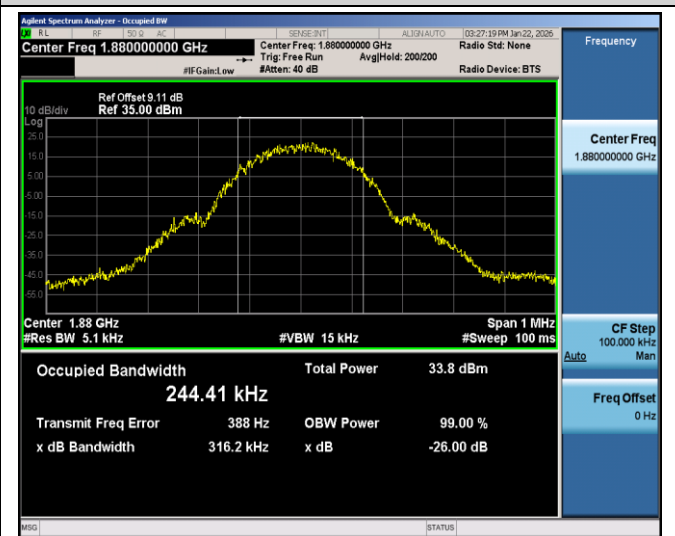
GSM1900-661-0-0.3119



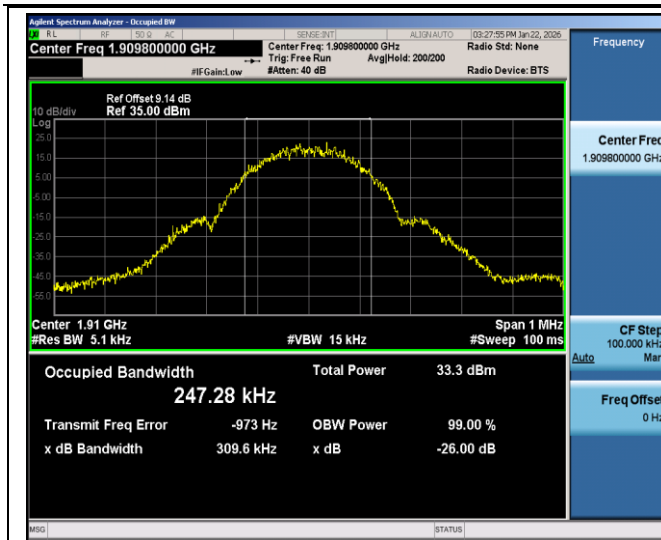
GSM1900-810-0-0.3142



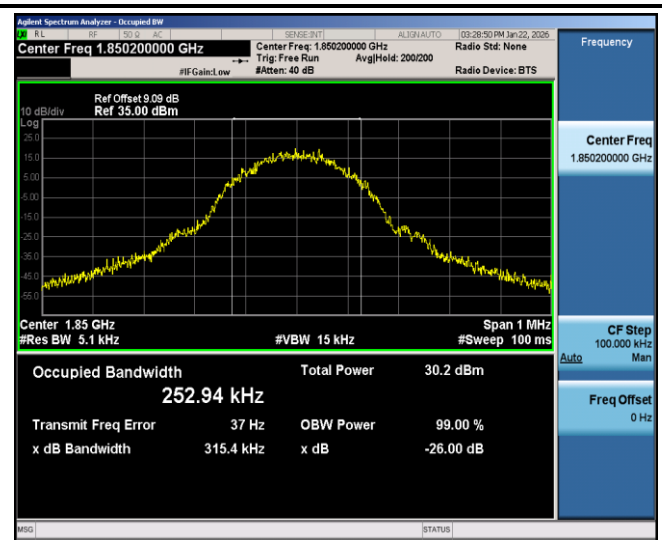
GPRS1900-512-0-0.3152



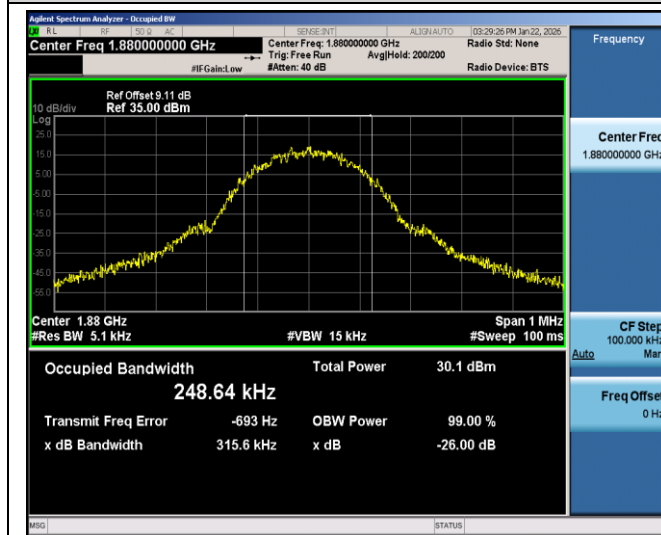
GPRS1900-661-0-0.3162



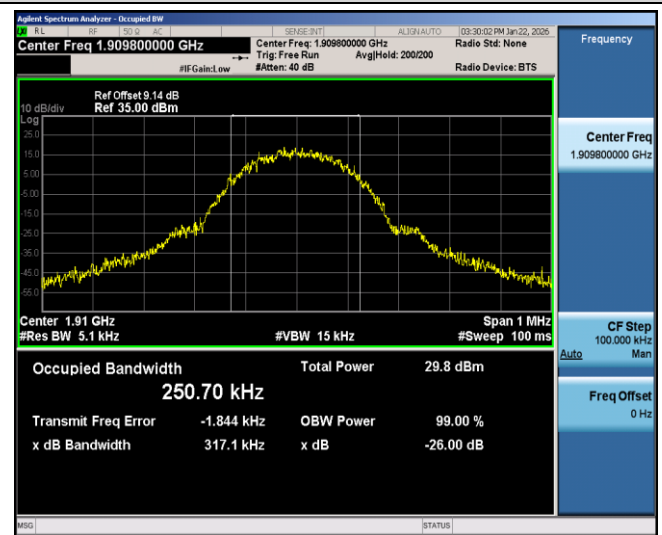
GPRS1900-810-0-0.3096



EGPRS1900-512-2-0.3154



EGPRS1900-661-2-0.3156



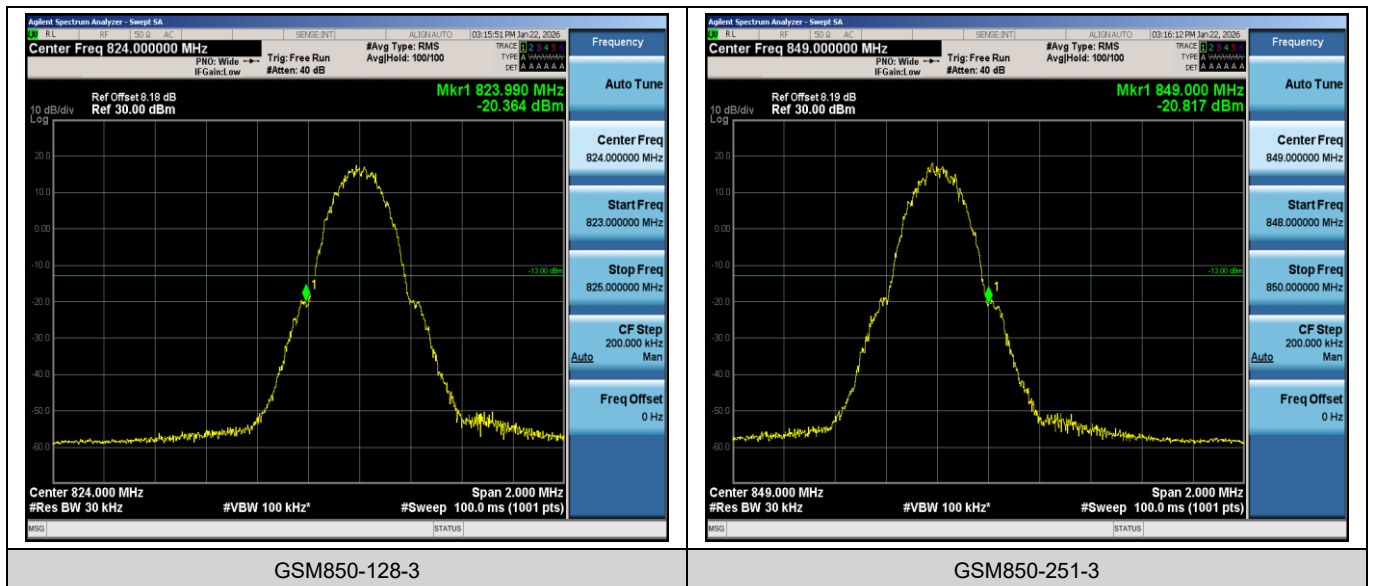
EGPRS1900-810-2-0.3171

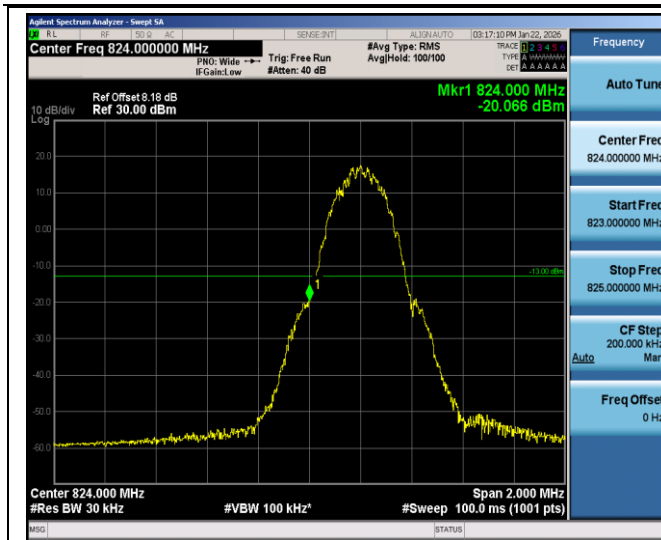
Band Edge

Test Result

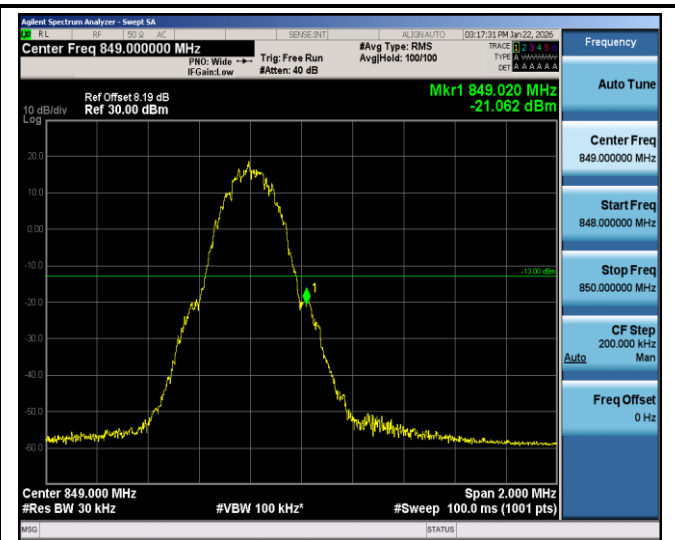
Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	823.99	-19.48	-13	PASS
GSM850	251	849.00	-18.48	-13	PASS
GPRS850	128	824.00	-19.15	-13	PASS
GPRS850	251	849.02	-19.55	-13	PASS
EGPRS850	128	824.00	-23.21	-13	PASS
EGPRS850	251	849.01	-25.73	-13	PASS
GSM1900	512	1849.98	-21.51	-13	PASS
GSM1900	810	1910.01	-21.06	-13	PASS
GPRS1900	512	1849.98	-22.17	-13	PASS
GPRS1900	810	1910.00	-22.13	-13	PASS
EGPRS1900	512	1850.00	-25.29	-13	PASS
EGPRS1900	810	1910.00	-27.59	-13	PASS

Test Graphs

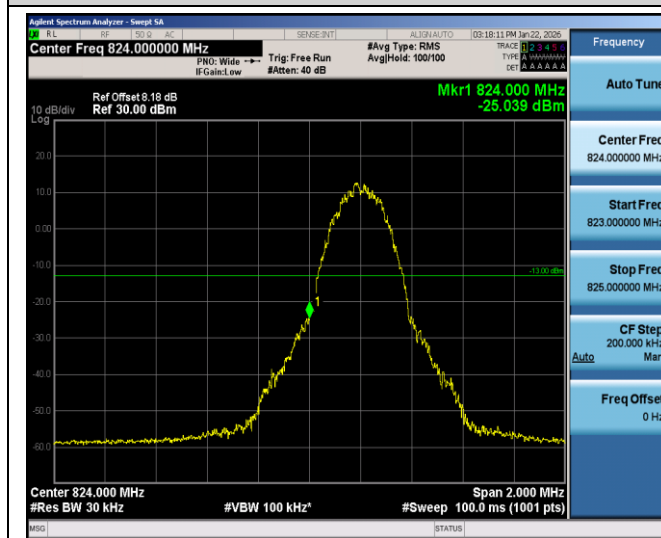




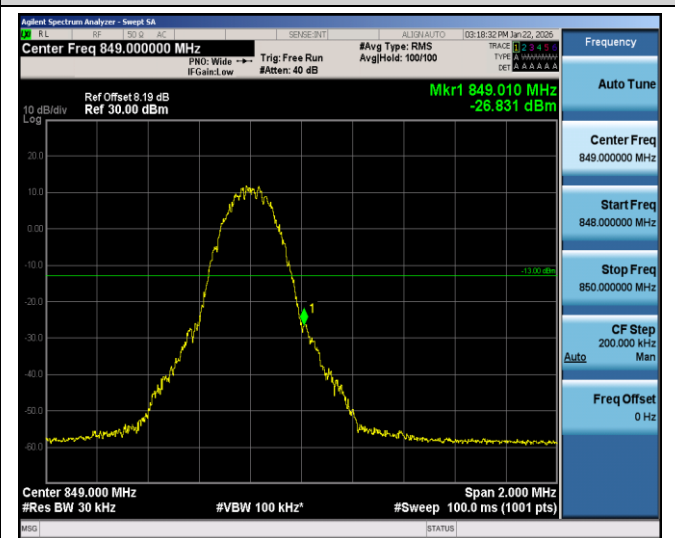
GPRS850-128-3



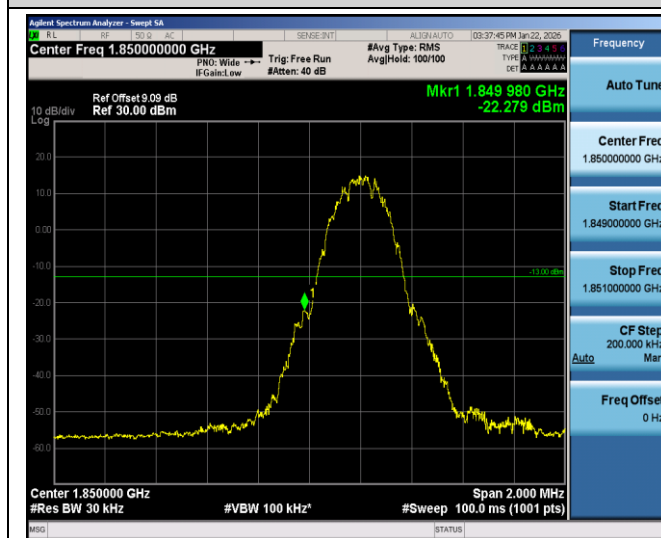
GPRS850-251-3



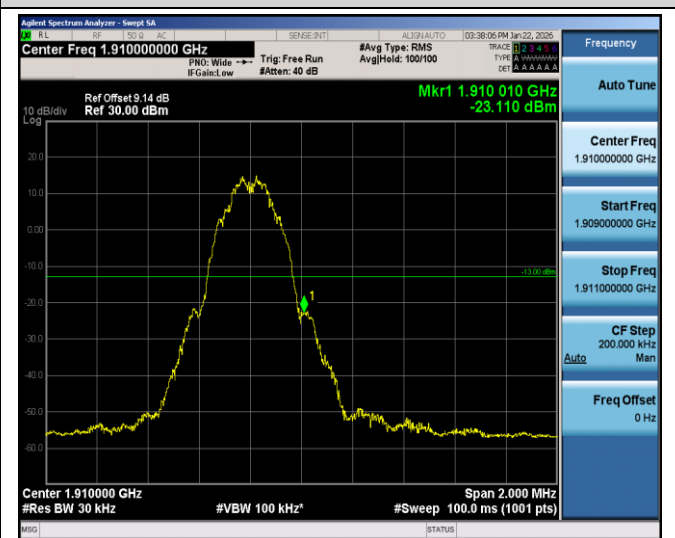
EGPRS850-128-8



EGPRS850-251-8



GSM1900-512-0



GSM1900-810-0