

Appendix Test Data

Report No.:	18220WC20287803	Test Sample No.:	1-2-1
Start Test Date:	2022.12.15	Finish Test Date:	2023.1.3
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	22.3°C	Relative Humidity:	37 %
Pressure:	1012 hPa		

Appendix A: Conducted Output Power

Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
GSM850	128	33.16	38.45	PASS
GSM850	190	33.07	38.45	PASS
GSM850	251	32.96	38.45	PASS
GSM1900	512	28.75	33.00	PASS
GSM1900	661	28.91	33.00	PASS
GSM1900	810	28.65	33.00	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	1	33.11	38.45	PASS
GPRS850	128	2	32.50	38.45	PASS
GPRS850	128	3	30.87	38.45	PASS
GPRS850	128	4	29.77	38.45	PASS
GPRS850	190	1	33.01	38.45	PASS
GPRS850	190	2	32.43	38.45	PASS
GPRS850	190	3	30.88	38.45	PASS
GPRS850	190	4	29.79	38.45	PASS
GPRS850	251	1	32.95	38.45	PASS
GPRS850	251	2	32.33	38.45	PASS
GPRS850	251	3	30.73	38.45	PASS
GPRS850	251	4	29.59	38.45	PASS
GPRS1900	512	1	28.86	33.00	PASS
GPRS1900	512	2	28.46	33.00	PASS
GPRS1900	512	3	27.19	33.00	PASS
GPRS1900	512	4	26.21	33.00	PASS
GPRS1900	661	1	28.80	33.00	PASS



GPRS1900	661	2	28.39	33.00	PASS
GPRS1900	661	3	27.07	33.00	PASS
GPRS1900	661	4	26.06	33.00	PASS
GPRS1900	810	1	28.53	33.00	PASS
GPRS1900	810	2	28.12	33.00	PASS
GPRS1900	810	3	26.81	33.00	PASS
GPRS1900	810	4	25.74	33.00	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	27.61	38.45	PASS
EGPRS850	128	2	26.47	38.45	PASS
EGPRS850	128	3	24.30	38.45	PASS
EGPRS850	128	4	23.08	38.45	PASS
EGPRS850	190	1	27.51	38.45	PASS
EGPRS850	190	2	26.37	38.45	PASS
EGPRS850	190	3	24.24	38.45	PASS
EGPRS850	190	4	23.08	38.45	PASS
EGPRS850	251	1	27.25	38.45	PASS
EGPRS850	251	2	26.13	38.45	PASS
EGPRS850	251	3	24.00	38.45	PASS
EGPRS850	251	4	22.78	38.45	PASS
EGPRS1900	512	1	25.17	33.00	PASS
EGPRS1900	512	2	24.56	33.00	PASS
EGPRS1900	512	3	23.32	33.00	PASS
EGPRS1900	512	4	22.15	33.00	PASS
EGPRS1900	661	1	25.69	33.00	PASS
EGPRS1900	661	2	25.02	33.00	PASS
EGPRS1900	661	3	23.80	33.00	PASS
EGPRS1900	661	4	22.65	33.00	PASS
EGPRS1900	810	1	25.40	33.00	PASS
EGPRS1900	810	2	24.76	33.00	PASS
EGPRS1900	810	3	23.47	33.00	PASS
EGPRS1900	810	4	22.33	33.00	PASS

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Appendix B: Peak-to-Average Ratio(CCDF)

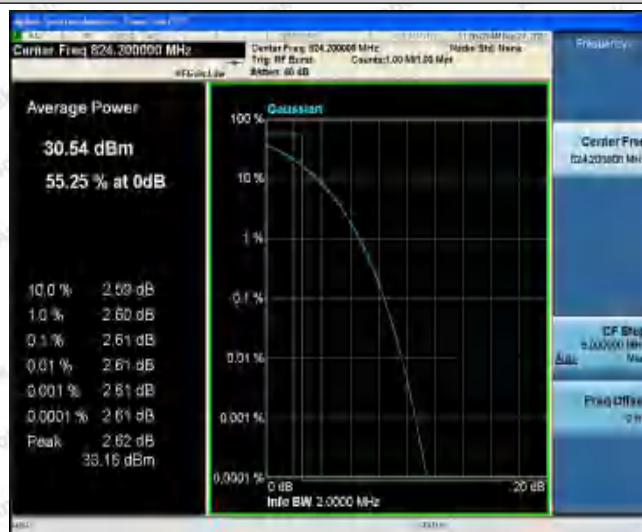
Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	2.61	13	PASS
GSM850	190	2.61	13	PASS
GSM850	251	2.61	13	PASS
GPRS850	128	2.61	13	PASS
GPRS850	190	2.61	13	PASS
GPRS850	251	2.61	13	PASS
EGPRS850	128	5.54	13	PASS
EGPRS850	190	5.60	13	PASS
EGPRS850	251	5.64	13	PASS
GSM1900	512	2.61	13	PASS
GSM1900	661	2.61	13	PASS
GSM1900	810	2.62	13	PASS
GPRS1900	512	2.61	13	PASS
GPRS1900	661	2.61	13	PASS
GPRS1900	810	2.60	13	PASS
EGPRS1900	512	5.72	13	PASS
EGPRS1900	661	5.70	13	PASS
EGPRS1900	810	5.70	13	PASS

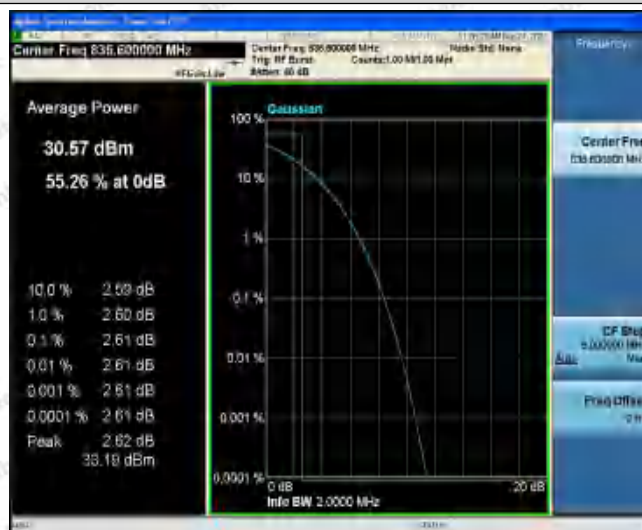


Test Graphs

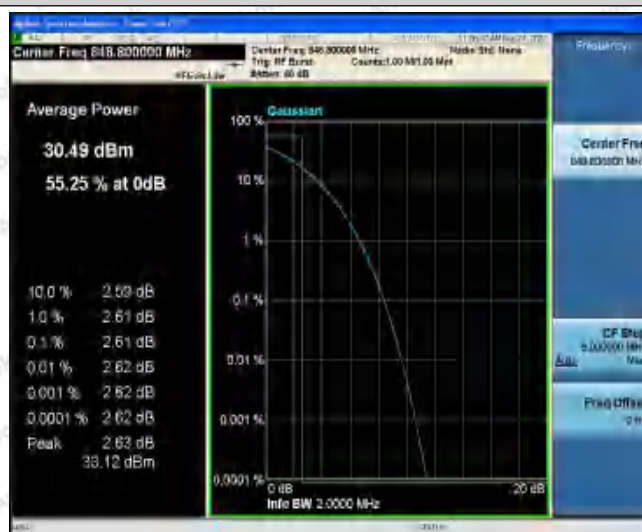
GSM850-128



GSM850-190



GSM850-251



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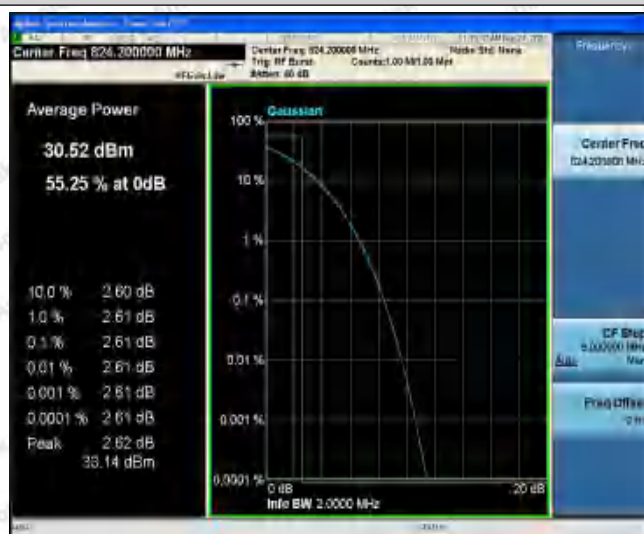
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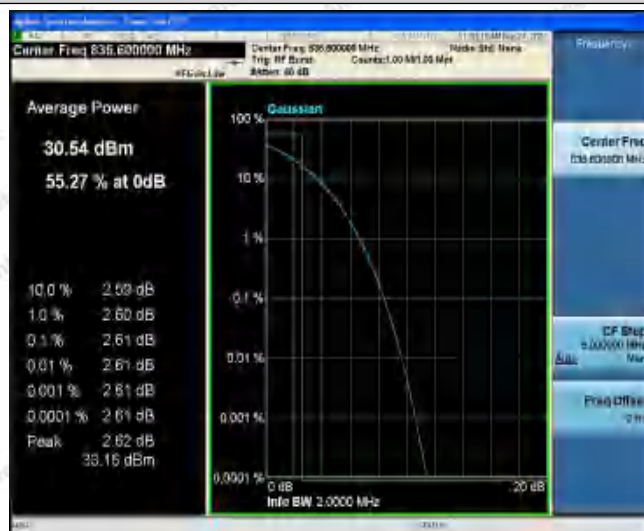
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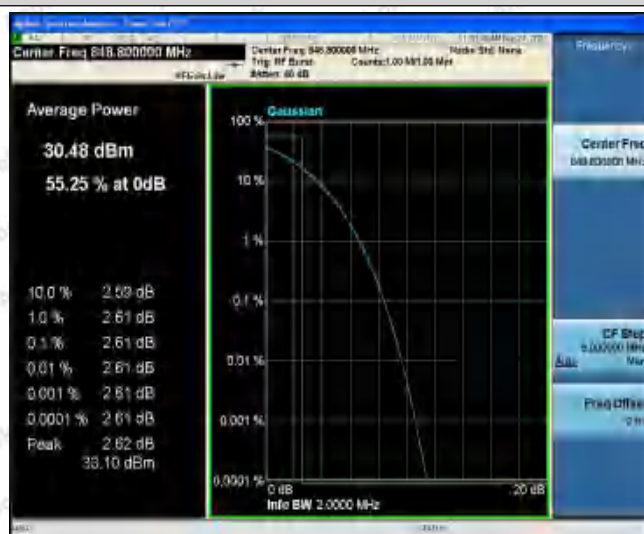
GPRS850-128



GPRS850-190



GPRS850-251



EGPRS850-128

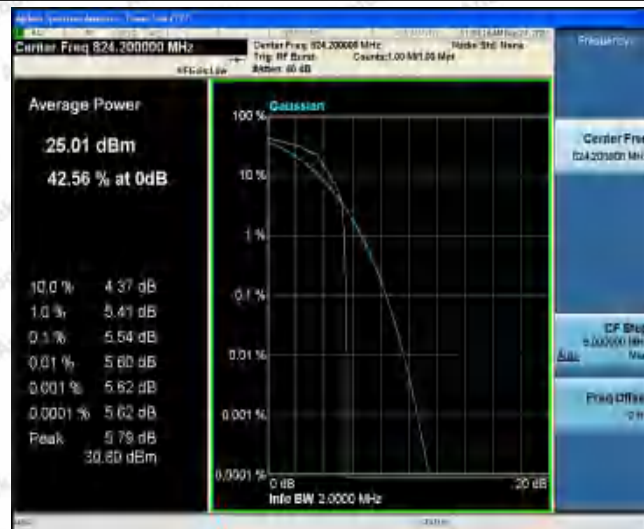
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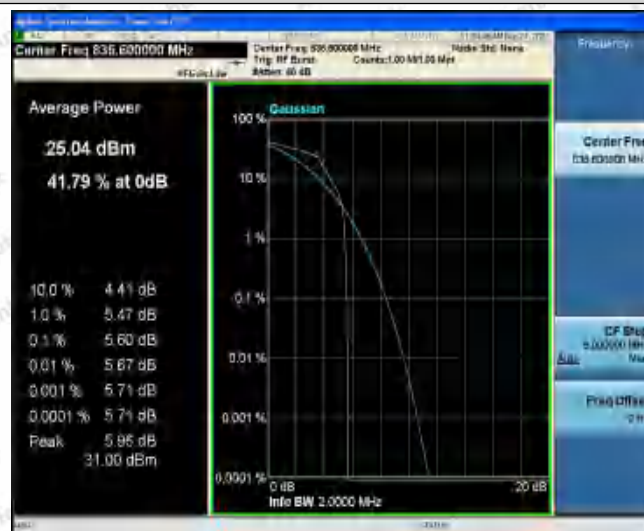


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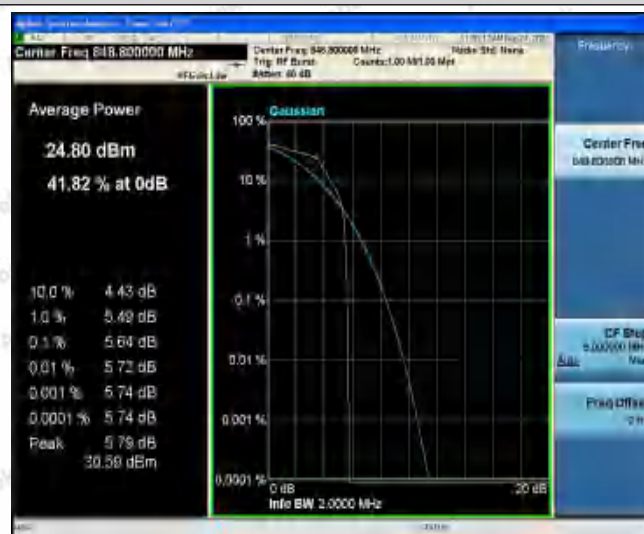




EGPRS850-190

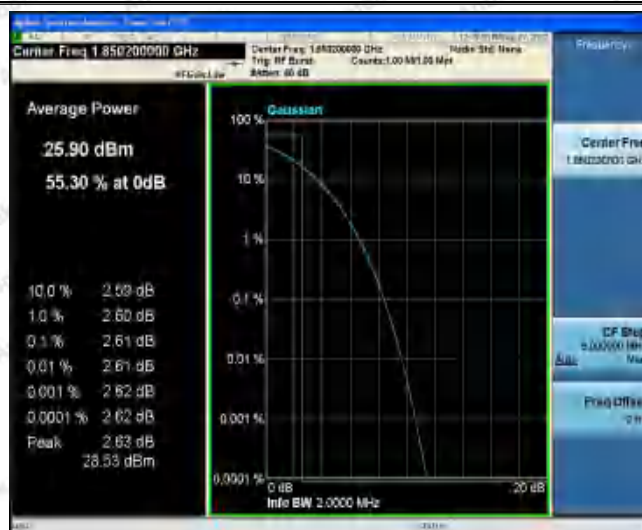


EGPRS850-251

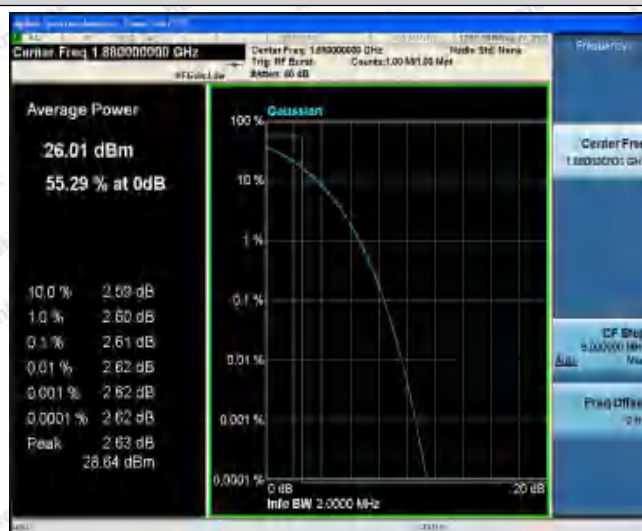


GSM1900-512

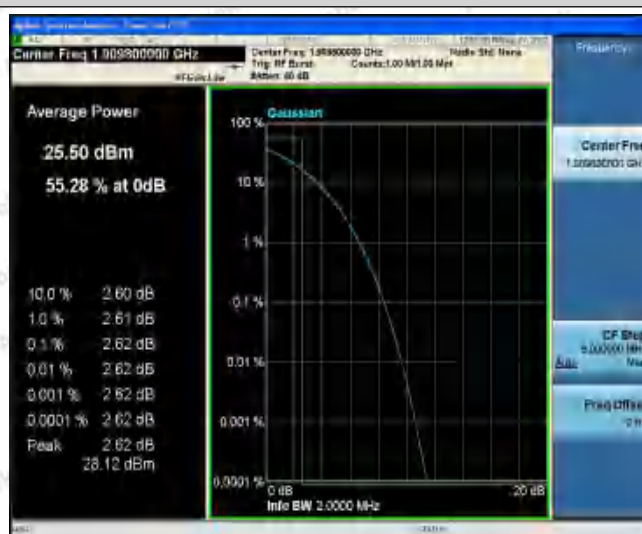




GSM1900-661

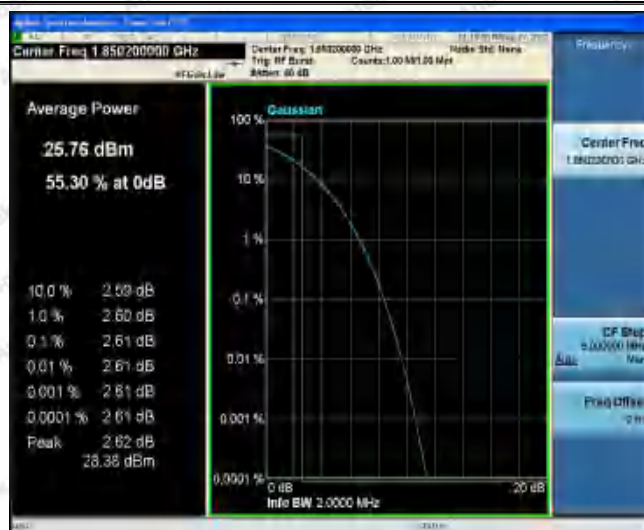


GSM1900-810

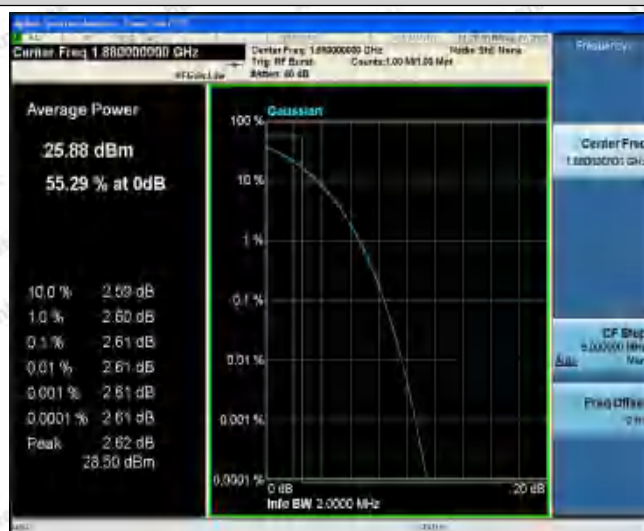


GPRS1900-512

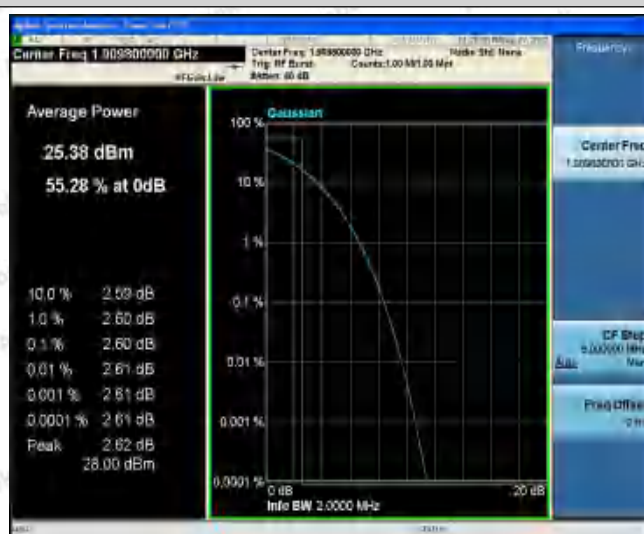




GPRS1900-661

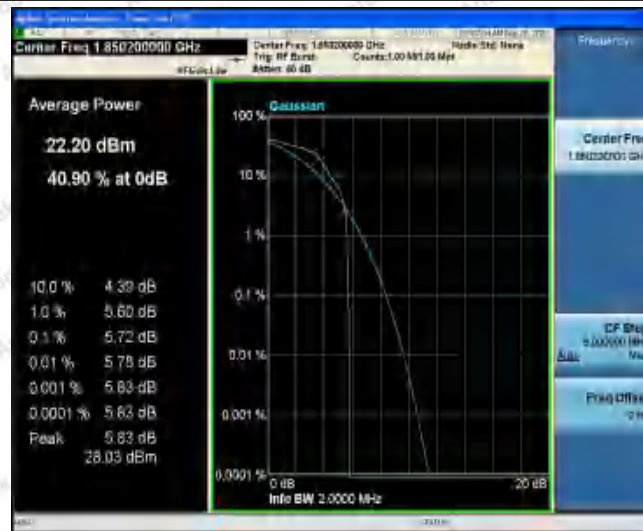


GPRS1900-810

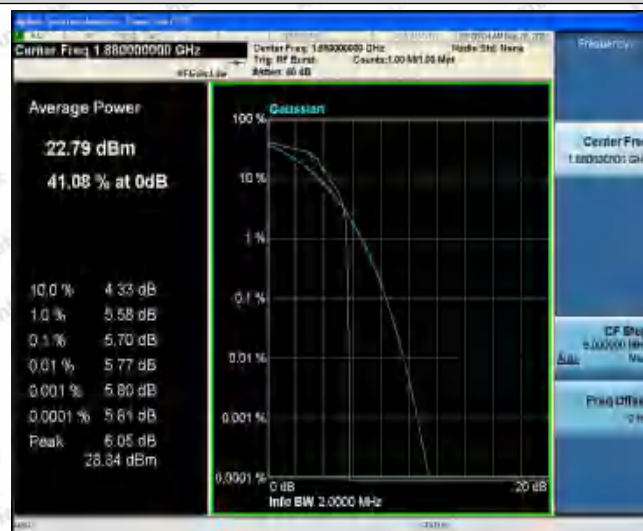


EGPRS1900-512

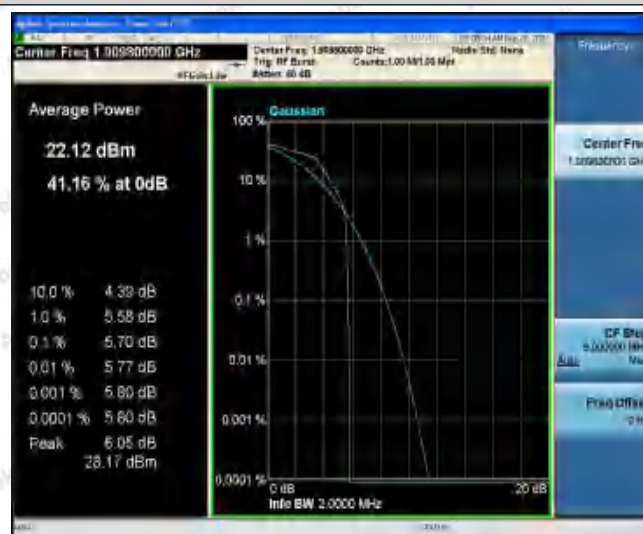




EGPRS1900-661



EGPRS1900-810



Appendix C: 26dB Bandwidth and Occupied Bandwidth

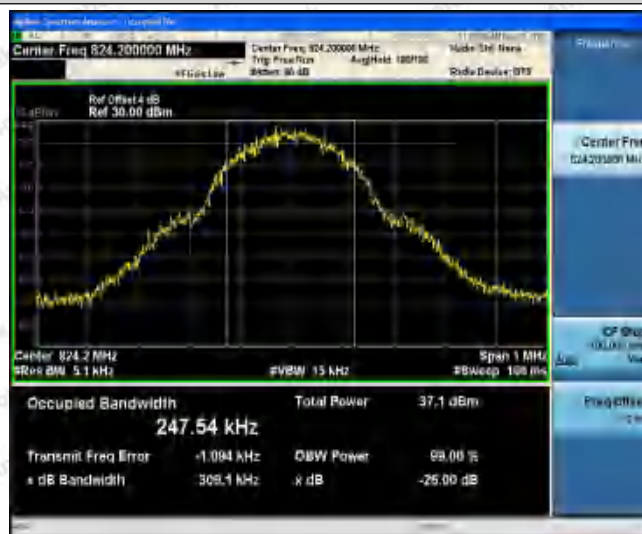
Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.24754	0.3091	---	PASS
GSM850	190	0.24605	0.3172	---	PASS
GSM850	251	0.24437	0.3158	---	PASS
GPRS850	128	0.24473	0.3153	---	PASS
GPRS850	190	0.24523	0.3098	---	PASS
GPRS850	251	0.24550	0.3148	---	PASS
EGPRS850	128	0.25146	0.3002	---	PASS
EGPRS850	190	0.24566	0.3017	---	PASS
EGPRS850	251	0.24965	0.3069	---	PASS
GSM1900	512	0.24125	0.3124	---	PASS
GSM1900	661	0.24638	0.3116	---	PASS
GSM1900	810	0.24538	0.3118	---	PASS
GPRS1900	512	0.24353	0.3185	---	PASS
GPRS1900	661	0.24337	0.3123	---	PASS
GPRS1900	810	0.24722	0.3146	---	PASS
EGPRS1900	512	0.24451	0.3121	---	PASS
EGPRS1900	661	0.24499	0.3014	---	PASS
EGPRS1900	810	0.24026	0.2998	---	PASS

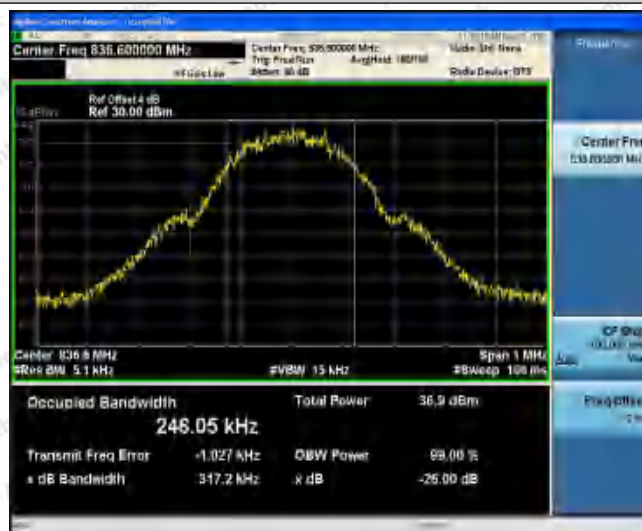


Test Graphs

GSM850-128

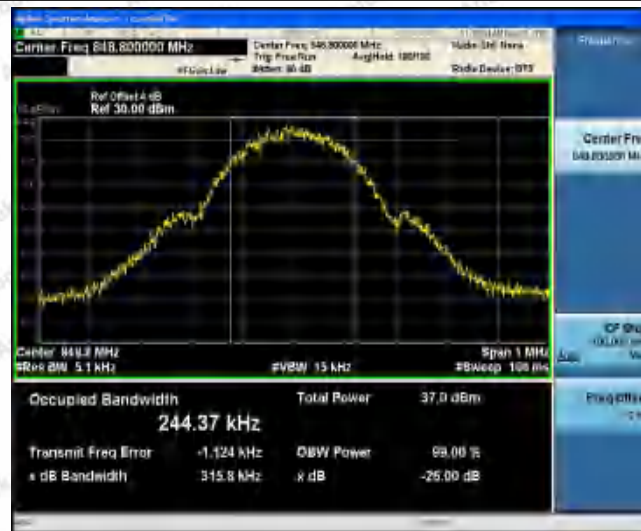


GSM850-190

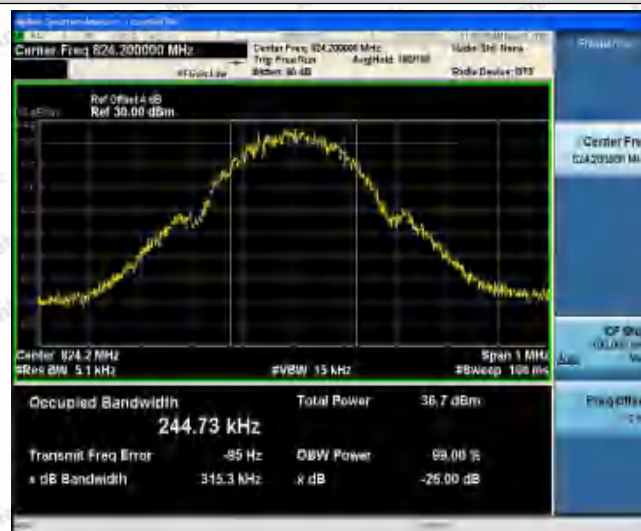


GSM850-251

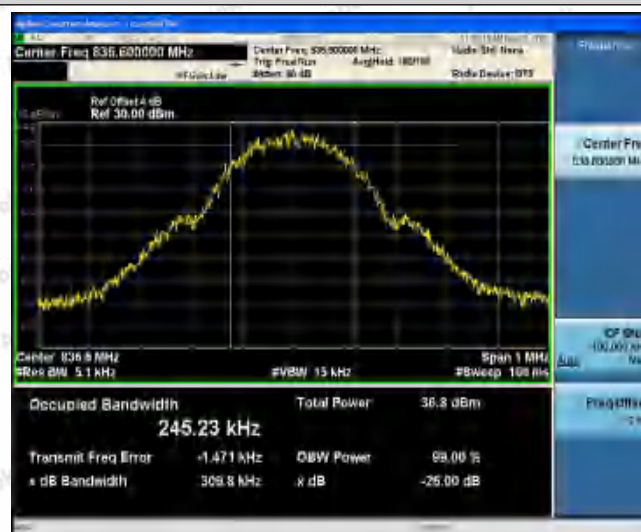




GPRS850-128

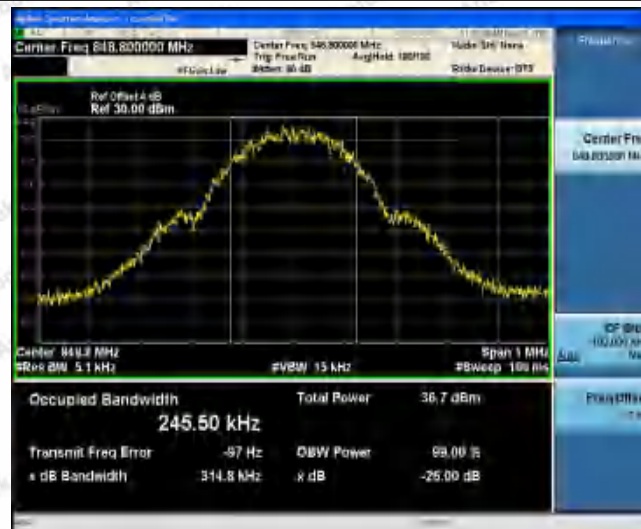


GPRS850-190

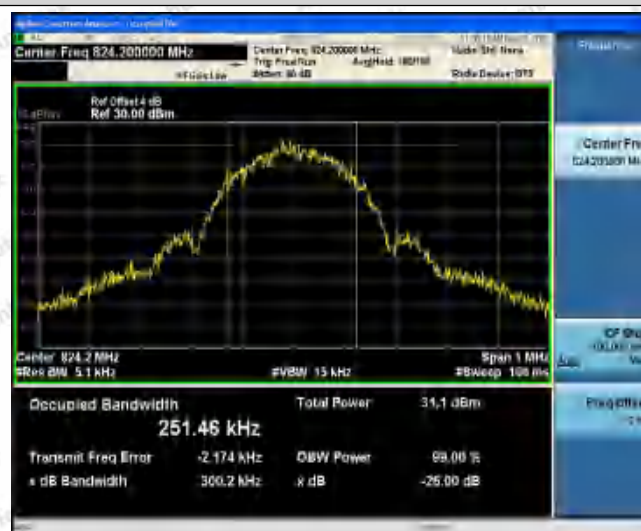


GPRS850-251

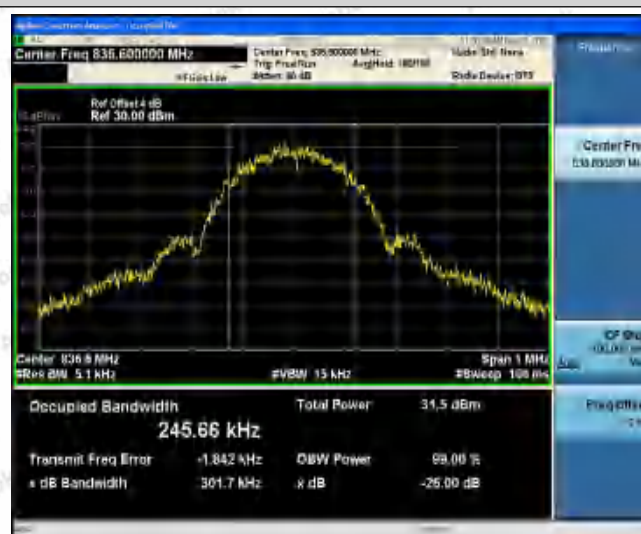




EGPRS850-128

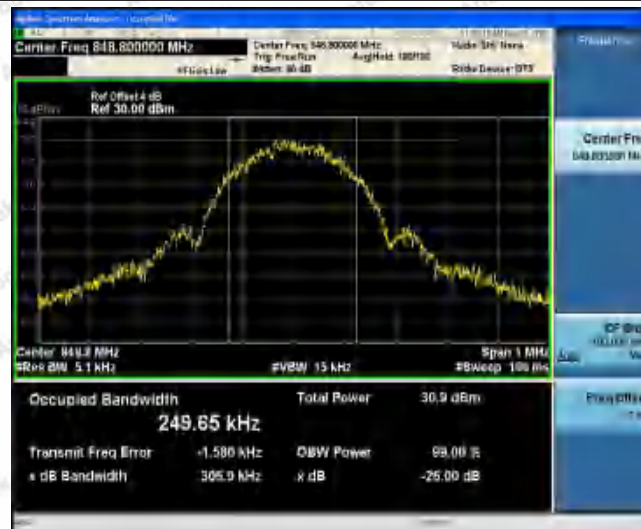


EGPRS850-190

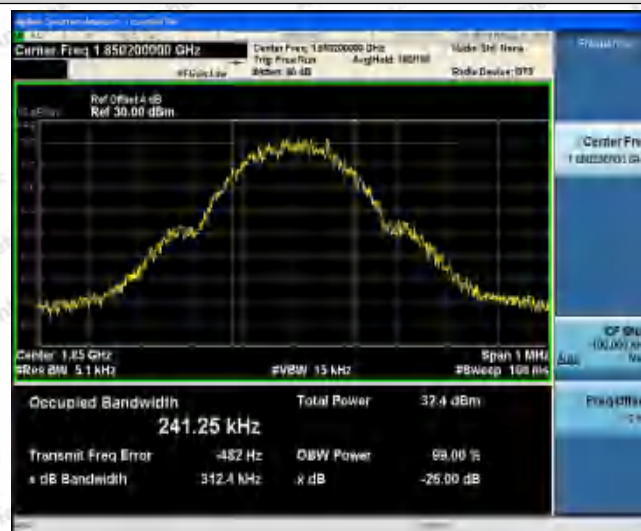


EGPRS850-251

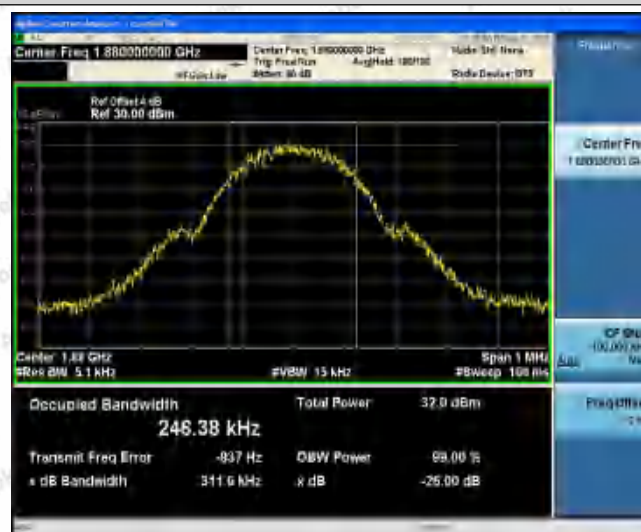




GSM1900-512

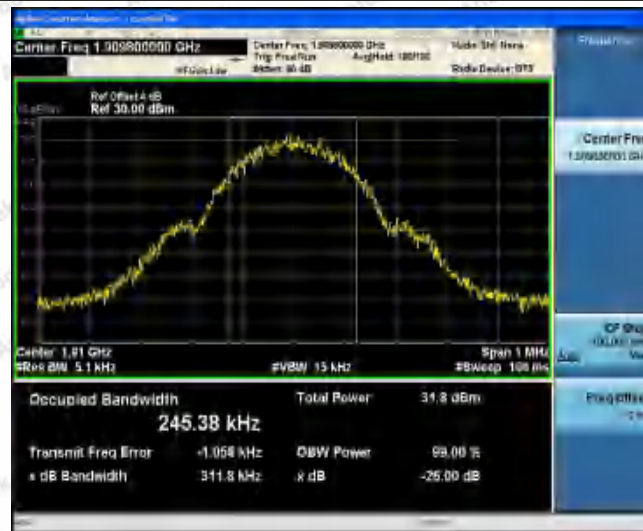


GSM1900-661

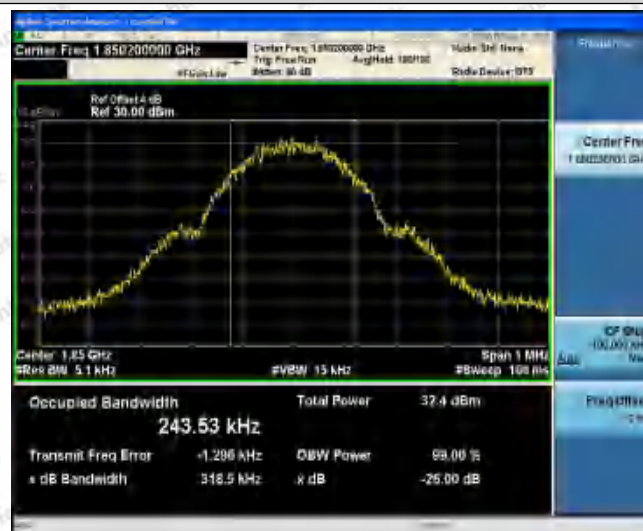


GSM1900-810

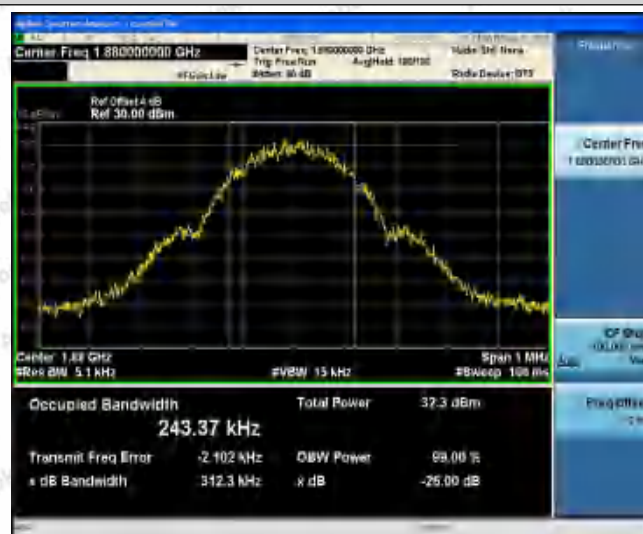




GPRS1900-512

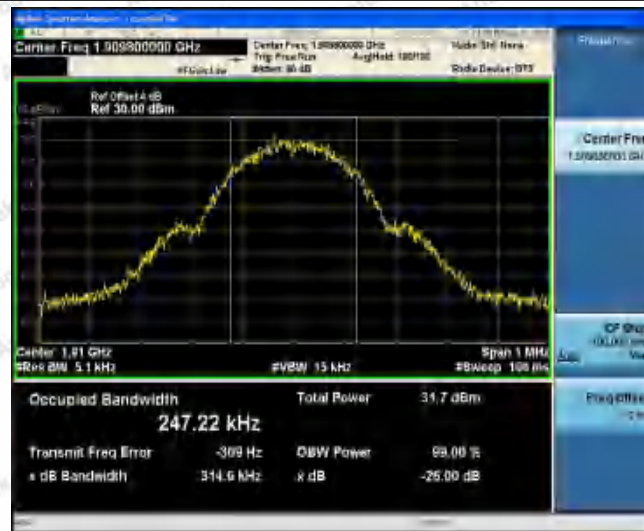


GPRS1900-661

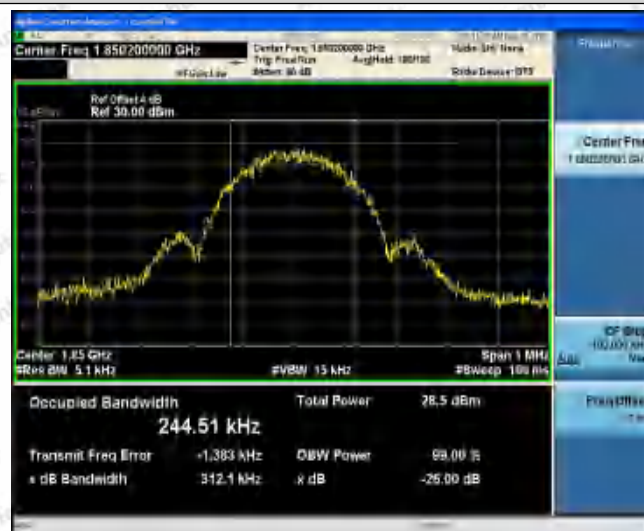


GPRS1900-810

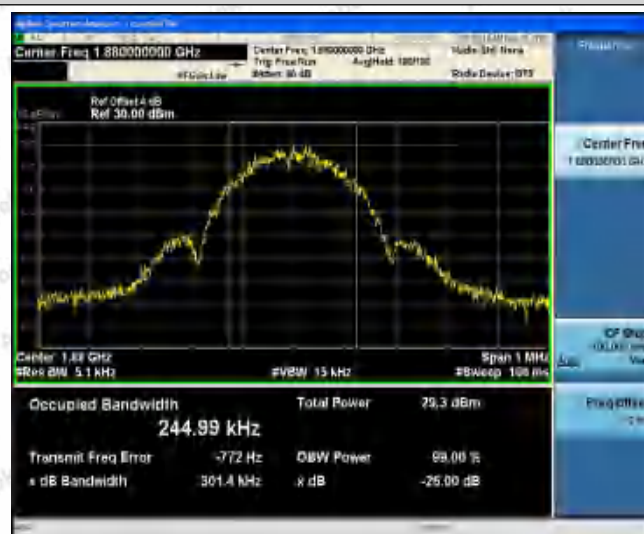




EGPRS1900-512

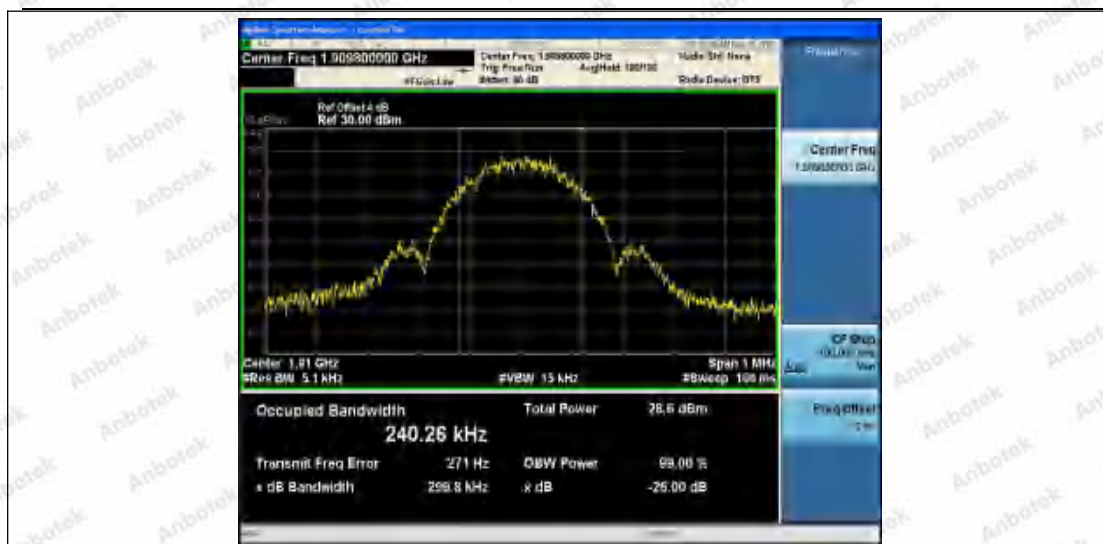


EGPRS1900-661



EGPRS1900-810





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Appendix D: Band Edge

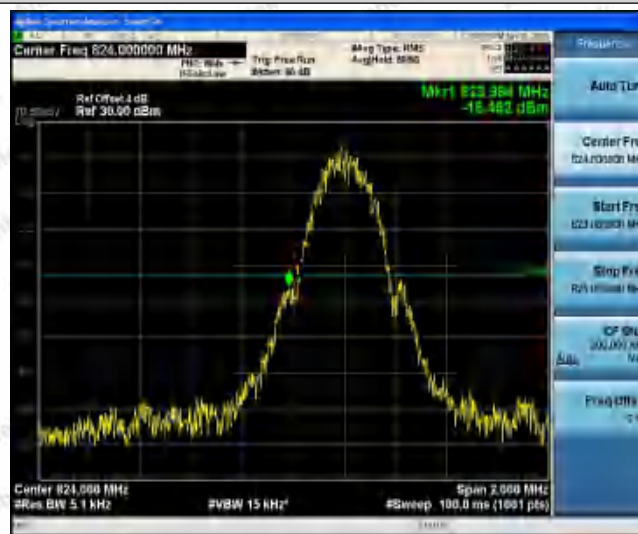
Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	823.98	-16.45	-13	PASS
GSM850	251	849.02	-14.05	-13	PASS
GPRS850	128	823.98	-13.80	-13	PASS
GPRS850	251	849.02	-13.87	-13	PASS
EGPRS850	128	823.98	-20.52	-13	PASS
EGPRS850	251	849.03	-19.76	-13	PASS
GSM1900	512	1850.00	-14.82	-13	PASS
GSM1900	810	1910.02	-13.91	-13	PASS
GPRS1900	512	1849.99	-17.20	-13	PASS
GPRS1900	810	1910.01	-15.69	-13	PASS
EGPRS1900	512	1849.99	-21.68	-13	PASS
EGPRS1900	810	1910.04	-23.51	-13	PASS

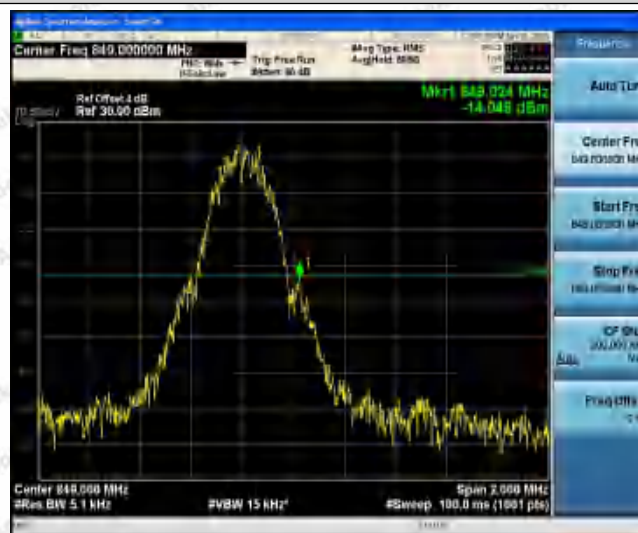


Test Graphs

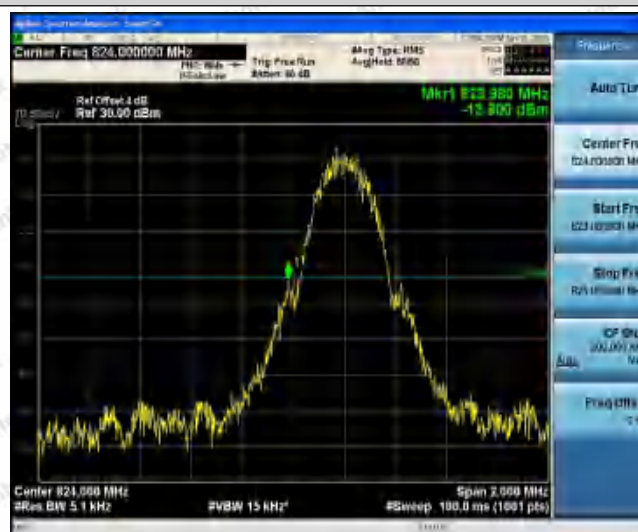
GSM850-128



GSM850-251



GPRS850-128



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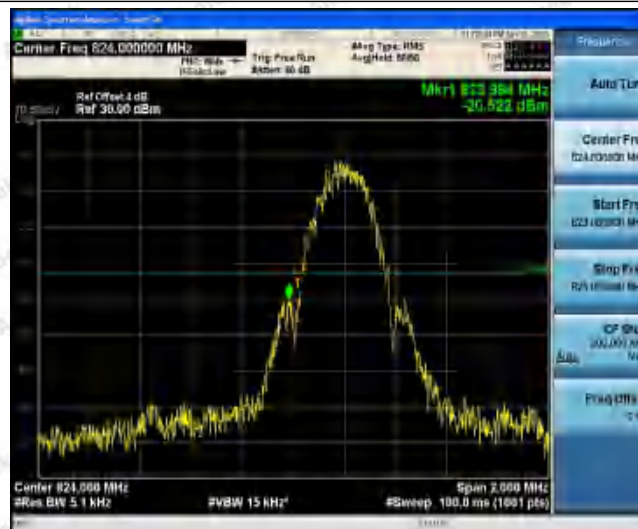
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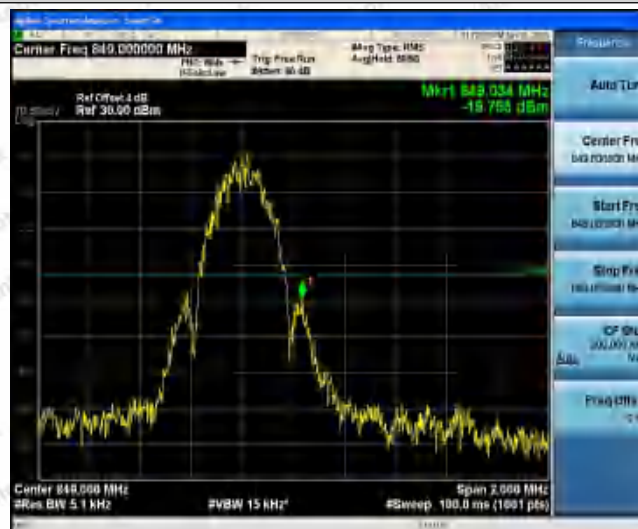
GPRS850-251



EGPRS850-128



EGPRS850-251



GSM1900-512

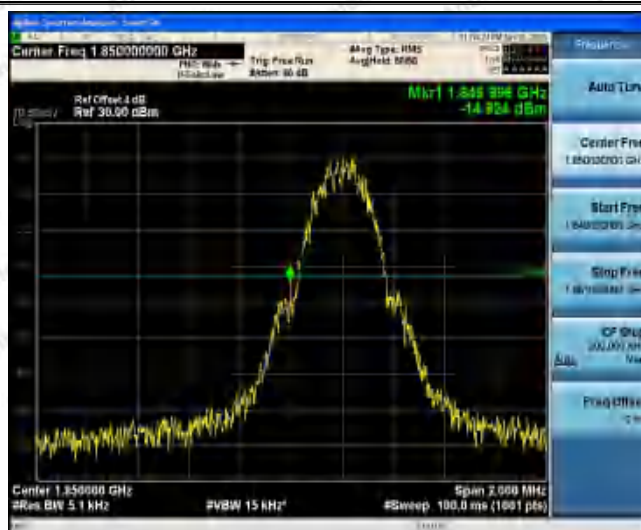
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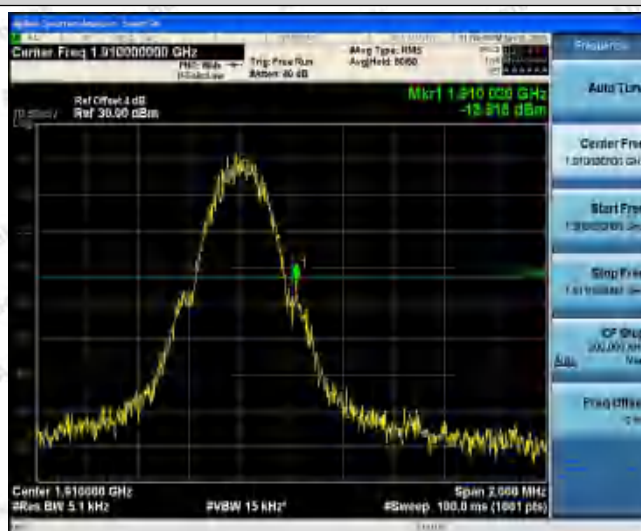


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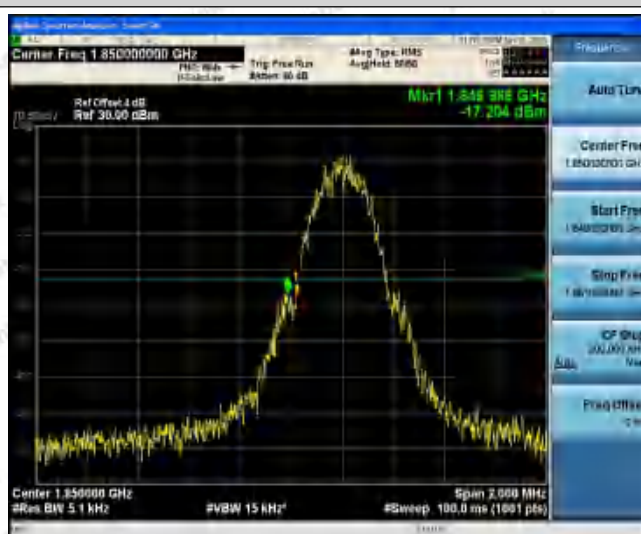




GSM1900-810



GPRS1900-512



GPRS1900-810

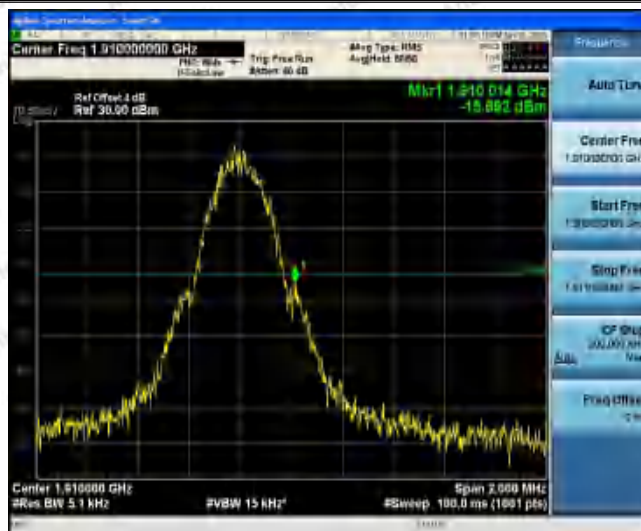
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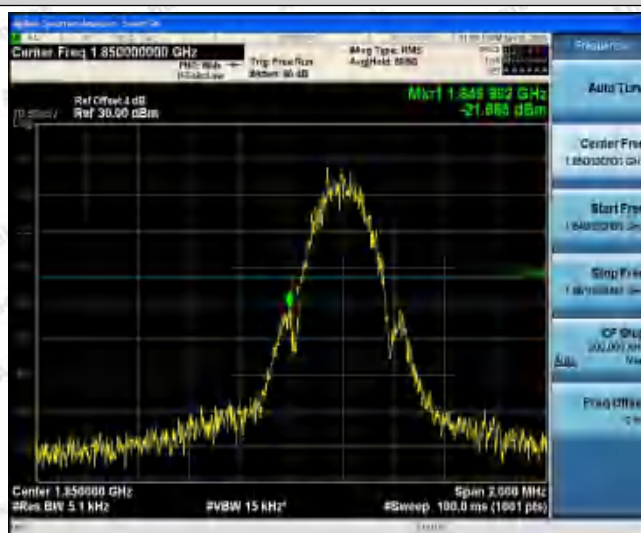


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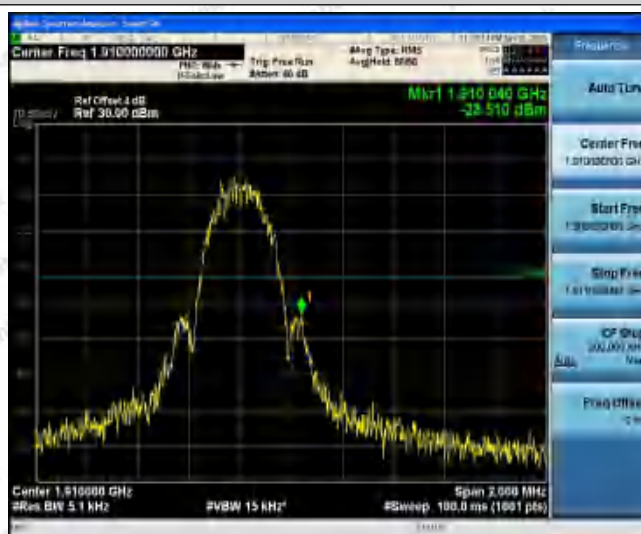




EGPRS1900-512



EGPRS1900-810



Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	0.009~0.15MHz	0.01	-48.51	-33	PASS
GSM850	128	0.15~30MHz	0.28	-55.26	-13	PASS
GSM850	128	30~1000MHz	633.6	-41.73	-13	PASS
GSM850	128	1000~3000MHz	2472.6	-28.12	-13	PASS
GSM850	128	3000~10000MHz	3297.27	-43.27	-13	PASS
GSM850	190	0.009~0.15MHz	0.01	-47.71	-33	PASS
GSM850	190	0.15~30MHz	0.3	-54.63	-13	PASS
GSM850	190	30~1000MHz	722.52	-42.04	-13	PASS
GSM850	190	1000~3000MHz	2509.2	-31.29	-13	PASS
GSM850	190	3000~10000MHz	3345.8	-46.39	-13	PASS
GSM850	251	0.009~0.15MHz	0.01	-47.31	-33	PASS
GSM850	251	0.15~30MHz	0.3	-57.54	-13	PASS
GSM850	251	30~1000MHz	980.63	-41.66	-13	PASS
GSM850	251	1000~3000MHz	2545.93	-29.88	-13	PASS
GSM850	251	3000~10000MHz	3395.27	-45.08	-13	PASS
GPRS850	128	0.009~0.15MHz	0.01	-48.73	-33	PASS
GPRS850	128	0.15~30MHz	0.3	-56.79	-13	PASS
GPRS850	128	30~1000MHz	935.04	-41.69	-13	PASS
GPRS850	128	1000~3000MHz	2472.6	-28.15	-13	PASS
GPRS850	128	3000~10000MHz	3297.5	-50.22	-13	PASS
GPRS850	190	0.009~0.15MHz	0.01	-47.83	-33	PASS
GPRS850	190	0.15~30MHz	0.32	-56.38	-13	PASS
GPRS850	190	30~1000MHz	938.47	-42.12	-13	PASS
GPRS850	190	1000~3000MHz	2509.93	-28.14	-13	PASS
GPRS850	190	3000~10000MHz	3346.03	-43.67	-13	PASS
GPRS850	251	0.009~0.15MHz	0.01	-47.58	-33	PASS
GPRS850	251	0.15~30MHz	0.29	-53.91	-13	PASS
GPRS850	251	30~1000MHz	950.17	-42.43	-13	PASS
GPRS850	251	1000~3000MHz	2546.47	-28.01	-13	PASS
GPRS850	251	3000~10000MHz	3395.27	-45.03	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.02	-53.53	-33	PASS
EGPRS850	128	0.15~30MHz	0.28	-55.09	-13	PASS
EGPRS850	128	30~1000MHz	936.24	-42.1	-13	PASS
EGPRS850	128	1000~3000MHz	2472.47	-42.36	-13	PASS
EGPRS850	128	3000~10000MHz	5178.4	-60.2	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.03	-51.79	-33	PASS

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EGPRS850	190	0.15~30MHz	0.28	-55.84	-13	PASS
EGPRS850	190	30~1000MHz	995.18	-41.65	-13	PASS
EGPRS850	190	1000~3000MHz	2509.6	-42.1	-13	PASS
EGPRS850	190	3000~10000MHz	5615.9	-62.64	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.03	-52.9	-33	PASS
EGPRS850	251	0.15~30MHz	0.28	-56.71	-13	PASS
EGPRS850	251	30~1000MHz	738.84	-42.07	-13	PASS
EGPRS850	251	1000~3000MHz	2546	-45.1	-13	PASS
EGPRS850	251	3000~10000MHz	3394.57	-61.33	-13	PASS
GSM1900	512	0.009~0.15MHz	0.01	-60.25	-43	PASS
GSM1900	512	0.15~30MHz	0.28	-56.5	-23	PASS
GSM1900	512	30~1000MHz	804.38	-51.95	-13	PASS
GSM1900	512	1000~3000MHz	2648.2	-42.11	-13	PASS
GSM1900	512	3000~10000MHz	3700.47	-38.97	-13	PASS
GSM1900	512	10000~18000MHz	16210.4	-58.95	-13	PASS
GSM1900	661	0.009~0.15MHz	0.01	-60.67	-43	PASS
GSM1900	661	0.15~30MHz	0.31	-57	-23	PASS
GSM1900	661	30~1000MHz	799.5	-51.66	-13	PASS
GSM1900	661	1000~3000MHz	2664.47	-42.09	-13	PASS
GSM1900	661	3000~10000MHz	3166.6	-62.22	-13	PASS
GSM1900	661	10000~18000MHz	16246.67	-58.94	-13	PASS
GSM1900	810	0.009~0.15MHz	0.01	-61.2	-43	PASS
GSM1900	810	0.15~30MHz	0.3	-54.26	-23	PASS
GSM1900	810	30~1000MHz	852.24	-52.16	-13	PASS
GSM1900	810	1000~3000MHz	2641.13	-42.09	-13	PASS
GSM1900	810	3000~10000MHz	3819.47	-41.5	-13	PASS
GSM1900	810	10000~18000MHz	16225.87	-58.96	-13	PASS
GPRS1900	512	0.009~0.15MHz	0.01	-60.49	-43	PASS
GPRS1900	512	0.15~30MHz	0.28	-54.25	-23	PASS
GPRS1900	512	30~1000MHz	906.4	-51.57	-13	PASS
GPRS1900	512	1000~3000MHz	2648.13	-42.1	-13	PASS
GPRS1900	512	3000~10000MHz	5173.97	-59.76	-13	PASS
GPRS1900	512	10000~18000MHz	16252.53	-58.99	-13	PASS
GPRS1900	661	0.009~0.15MHz	0.01	-60.96	-43	PASS
GPRS1900	661	0.15~30MHz	0.28	-55.39	-23	PASS
GPRS1900	661	30~1000MHz	723.97	-51.95	-13	PASS
GPRS1900	661	1000~3000MHz	2650.53	-42.05	-13	PASS
GPRS1900	661	3000~10000MHz	5640.87	-55.19	-13	PASS
GPRS1900	661	10000~18000MHz	16280.53	-58.88	-13	PASS
GPRS1900	810	0.009~0.15MHz	0.01	-57.98	-43	PASS
GPRS1900	810	0.15~30MHz	0.34	-56.76	-23	PASS
GPRS1900	810	30~1000MHz	915.03	-51.61	-13	PASS

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GPRS1900	810	1000~3000MHz	2665.6	-42.06	-13	PASS
GPRS1900	810	3000~10000MHz	3819.47	-42.44	-13	PASS
GPRS1900	810	10000~18000MHz	16253.33	-58.95	-13	PASS
EGPRS1900	512	0.15~30MHz	0.68	-41.97	-23	PASS
EGPRS1900	512	30~1000MHz	974.84	-51.63	-13	PASS
EGPRS1900	512	1000~3000MHz	2666.13	-42.17	-13	PASS
EGPRS1900	512	3000~10000MHz	5550.57	-62.34	-13	PASS
EGPRS1900	512	10000~18000MHz	16232.8	-59.13	-13	PASS
EGPRS1900	661	0.15~30MHz	0.63	-41.7	-23	PASS
EGPRS1900	661	30~1000MHz	914.16	-52.16	-13	PASS
EGPRS1900	661	1000~3000MHz	2653.33	-42.15	-13	PASS
EGPRS1900	661	3000~10000MHz	3759.97	-49.71	-13	PASS
EGPRS1900	661	10000~18000MHz	16250.67	-59	-13	PASS
EGPRS1900	810	0.15~30MHz	0.47	-40.31	-23	PASS
EGPRS1900	810	30~1000MHz	933.88	-52.13	-13	PASS
EGPRS1900	810	1000~3000MHz	2653.73	-42.1	-13	PASS
EGPRS1900	810	3000~10000MHz	3819	-53.08	-13	PASS
EGPRS1900	810	10000~18000MHz	16212.53	-59.02	-13	PASS

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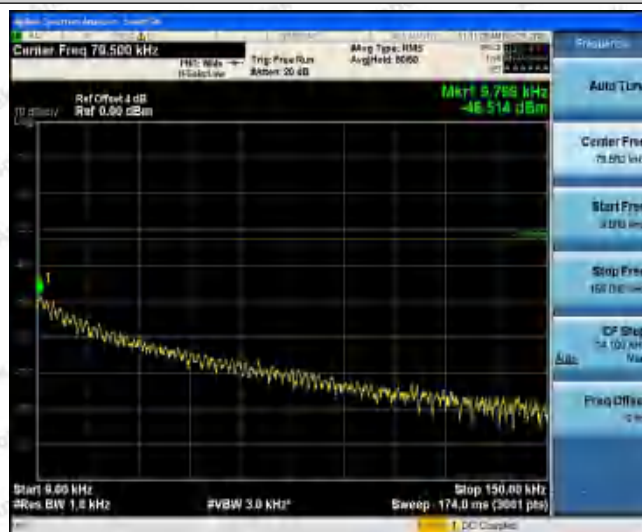


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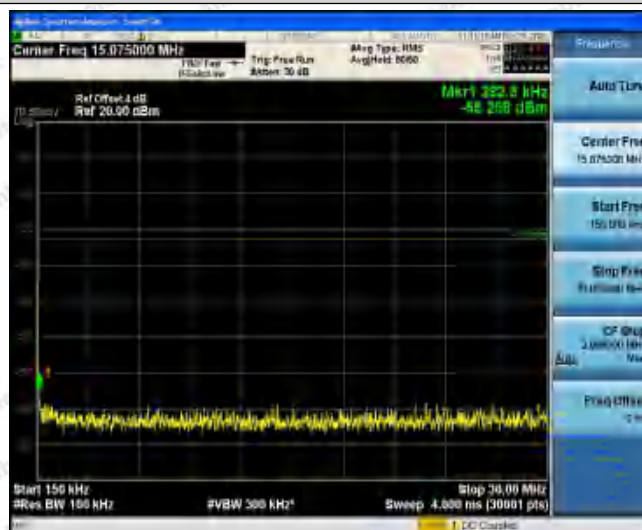


Test Graphs

GSM850-128-0.009~0.15MHz



GSM850-128-0.15~30MHz



GSM850-128-30~1000MHz



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GSM850-128-1000~3000MHz



GSM850-128-3000~10000MHz



GSM850-190-0.009~0.15MHz



GSM850-190-0.15~30MHz

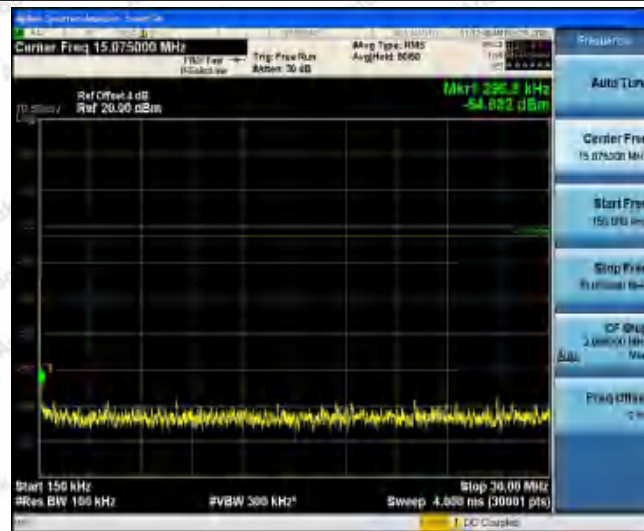
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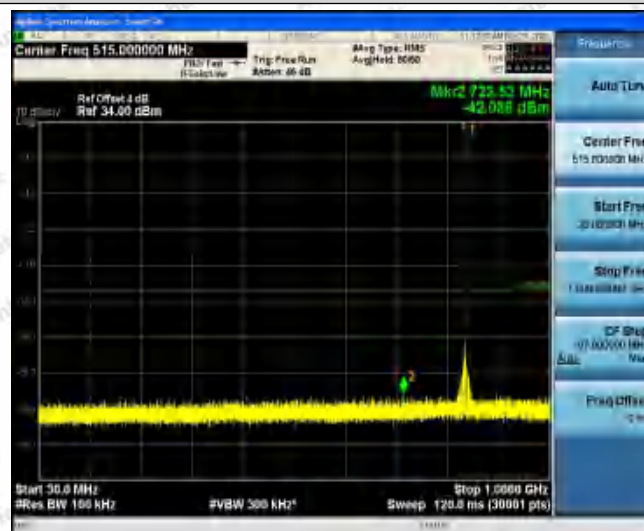


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GSM850-190-30~1000MHz



GSM850-190-1000~3000MHz



GSM850-190-3000~10000MHz

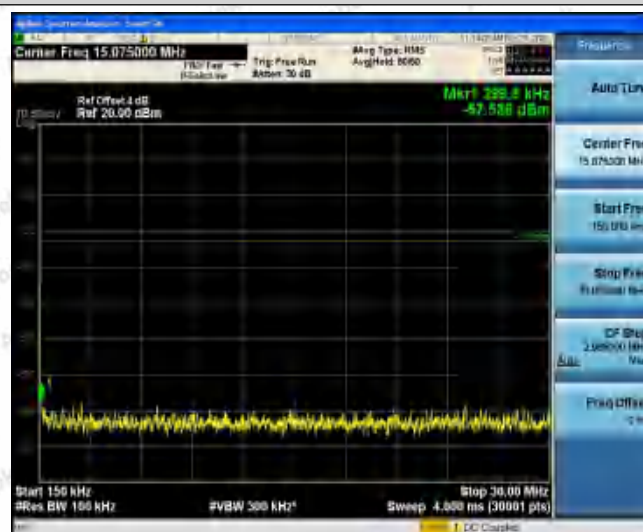




GSM850-251-0.009~0.15MHz

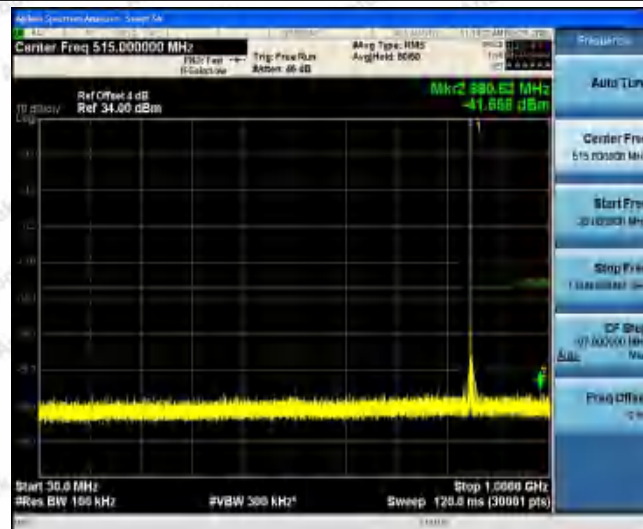


GSM850-251-0.15~30MHz



GSM850-251-30~1000MHz





GSM850-251-1000~3000MHz

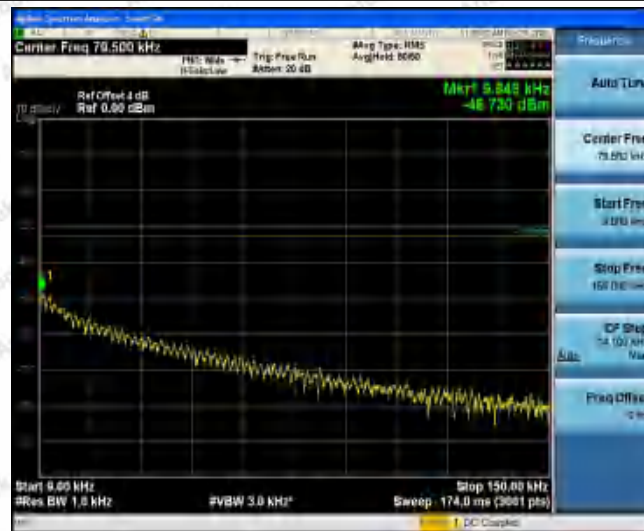


GSM850-251-3000~10000MHz

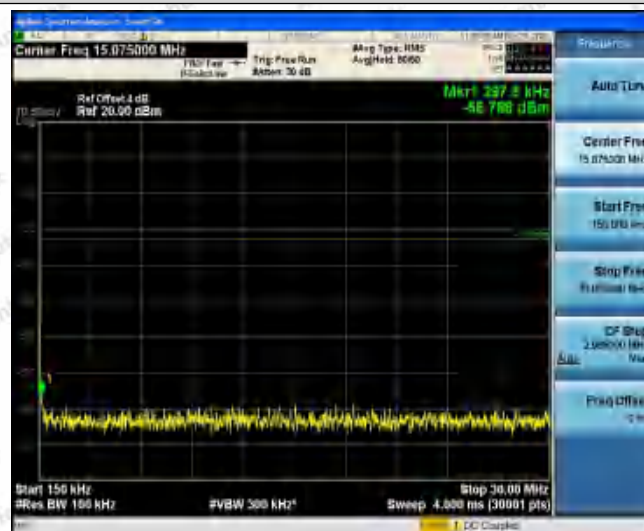


GPRS850-128-0.009~0.15MHz

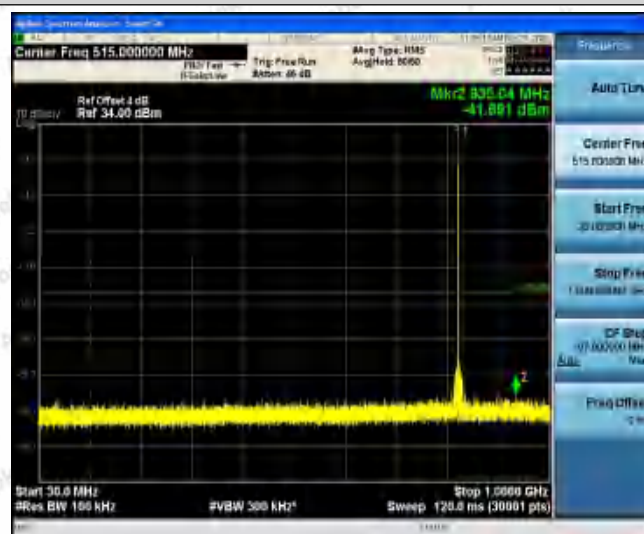




GPRS850-128-0.15~30MHz



GPRS850-128-30~1000MHz



GPRS850-128-1000~3000MHz





GPRS850-128-3000~10000MHz



GPRS850-190-0.009~0.15MHz



GPRS850-190-0.15~30MHz

