



Report

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Report

Conducted output power

Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	ERP (dBm)	ERP Limit (dBm)	Verdict
GSM850	128	824.2	33.07	-2.3	28.62	38.45	PASS
GSM850	190	836.6	33.35	-2.3	28.90	38.45	PASS
GSM850	251	848.8	33.51	-2.3	29.06	38.45	PASS
GPRS850 1 Slot	128	824.2	33.26	-2.3	28.81	38.45	PASS
GPRS850 1 Slot	190	836.6	33.54	-2.3	29.09	38.45	PASS
GPRS850 1 Slot	251	848.8	33.66	-2.3	29.21	38.45	PASS
GPRS850 2 Slot	128	824.2	31.34	-2.3	26.89	38.45	PASS
GPRS850 2 Slot	190	836.6	31.41	-2.3	26.96	38.45	PASS
GPRS850 2 Slot	251	848.8	31.60	-2.3	27.15	38.45	PASS
GPRS850 3 Slot	128	824.2	29.27	-2.3	24.82	38.45	PASS
GPRS850 3 Slot	190	836.6	29.31	-2.3	24.86	38.45	PASS
GPRS850 3 Slot	251	848.8	29.50	-2.3	25.05	38.45	PASS
GPRS850 4 Slot	128	824.2	26.99	-2.3	22.54	38.45	PASS
GPRS850 4 Slot	190	836.6	26.95	-2.3	22.50	38.45	PASS
GPRS850 4 Slot	251	848.8	27.21	-2.3	22.76	38.45	PASS
EGPRS850 1 Slot	128	824.2	33.29	-2.3	28.84	38.45	PASS
EGPRS850 1 Slot	190	836.6	33.52	-2.3	29.07	38.45	PASS
EGPRS850 1 Slot	251	848.8	33.66	-2.3	29.21	38.45	PASS
EGPRS850 2 Slot	128	824.2	31.38	-2.3	26.93	38.45	PASS
EGPRS850 2 Slot	190	836.6	31.45	-2.3	27.00	38.45	PASS
EGPRS850 2 Slot	251	848.8	31.61	-2.3	27.16	38.45	PASS
EGPRS850 3 Slot	128	824.2	29.27	-2.3	24.82	38.45	PASS
EGPRS850 3 Slot	190	836.6	29.33	-2.3	24.88	38.45	PASS
EGPRS850 3 Slot	251	848.8	29.63	-2.3	25.18	38.45	PASS
EGPRS850 4 Slot	128	824.2	27.02	-2.3	22.57	38.45	PASS
EGPRS850 4 Slot	190	836.6	26.99	-2.3	22.54	38.45	PASS
EGPRS850 4 Slot	251	848.8	27.24	-2.3	22.79	38.45	PASS



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Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
GSM1900	512	1850.2	30.29	0.16	30.45	33.01	PASS
GSM1900	661	1880	30.17	0.16	30.33	33.01	PASS
GSM1900	810	1909.8	30.18	0.16	30.34	33.01	PASS
GPRS1900 1 Slot	512	1850.2	30.38	0.16	30.54	33.01	PASS
GPRS1900 1 Slot	661	1880	30.30	0.16	30.46	33.01	PASS
GPRS1900 1 Slot	810	1909.8	30.32	0.16	30.48	33.01	PASS
GPRS1900 2 Slot	512	1850.2	28.78	0.16	28.94	33.01	PASS
GPRS1900 2 Slot	661	1880	27.97	0.16	28.13	33.01	PASS
GPRS1900 2 Slot	810	1909.8	27.25	0.16	27.41	33.01	PASS
GPRS1900 3 Slot	512	1850.2	27.04	0.16	27.20	33.01	PASS
GPRS1900 3 Slot	661	1880	26.20	0.16	26.36	33.01	PASS
GPRS1900 3 Slot	810	1909.8	25.42	0.16	25.58	33.01	PASS
GPRS1900 4 Slot	512	1850.2	24.89	0.16	25.05	33.01	PASS
GPRS1900 4 Slot	661	1880	24.01	0.16	24.17	33.01	PASS
GPRS1900 4 Slot	810	1909.8	23.21	0.16	23.37	33.01	PASS
EGPRS1900 1 Slot	512	1850.2	30.24	0.16	30.40	33.01	PASS
EGPRS1900 1 Slot	661	1880	30.21	0.16	30.37	33.01	PASS
EGPRS1900 1 Slot	810	1909.8	30.22	0.16	30.38	33.01	PASS
EGPRS1900 2 Slot	512	1850.2	28.71	0.16	28.87	33.01	PASS
EGPRS1900 2 Slot	661	1880	27.88	0.16	28.04	33.01	PASS
EGPRS1900 2 Slot	810	1909.8	27.18	0.16	27.34	33.01	PASS
EGPRS1900 3 Slot	512	1850.2	26.97	0.16	27.13	33.01	PASS
EGPRS1900 3 Slot	661	1880	26.15	0.16	26.31	33.01	PASS
EGPRS1900 3 Slot	810	1909.8	25.35	0.16	25.51	33.01	PASS
EGPRS1900 4 Slot	512	1850.2	24.81	0.16	24.97	33.01	PASS
EGPRS1900 4 Slot	661	1880	23.95	0.16	24.11	33.01	PASS
EGPRS1900 4 Slot	810	1909.8	23.22	0.16	23.38	33.01	PASS



Report

Frequency stability

GSM 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	3.56	0.004	2.5ppm	PASS
40		3.45	0.004		
30		-3.19	-0.004		
20		-8.59	-0.010		
10		-3.65	-0.004		
0		3.54	0.004		
-10		3.48	0.004		
-20		-3.64	-0.004		
-30		3.76	0.004		
20	Maximum Voltage	-3.75	-0.004		
20	BEP	-3.60	-0.004		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	2.92	0.003	2.5ppm	PASS
40		-3.26	-0.004		
30		2.95	0.004		
20		4.36	0.005		
10		-3.12	-0.004		
0		-3.30	-0.004		
-10		-3.22	-0.004		
-20		3.28	0.004		
-30		2.76	0.003		
20	Maximum Voltage	-3.12	-0.004		
20	BEP	3.23	0.004		



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EGPRS 850 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	7.17	0.009	2.5ppm	PASS
40		-7.70	-0.009		
30		-7.70	-0.009		
20		13.24	0.016		
10		-7.65	-0.009		
0		7.72	0.009		
-10		-7.49	-0.009		
-20		7.29	0.009		
-30		7.47	0.009		
20	Maximum Voltage	-7.42	-0.009		
20	BEP	-7.41	-0.009		

GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-0.62	0.000	Within Authorized Band	PASS
40		0.29	0.000		
30		0.39	0.000		
20		-2.39	-0.001		
10		-0.55	0.000		
0		0.18	0.000		
-10		0.21	0.000		
-20		-0.27	0.000		
-30		0.10	0.000		
20	Maximum Voltage	-0.50	0.000		
20	BEP	-0.53	0.000		



Report

GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-5.11	-0.003	Within Authorized Band	PASS
40		-5.03	-0.003		
30		4.76	0.003		
20		8.39	0.004		
10		-4.93	-0.003		
0		-4.84	-0.003		
-10		-4.80	-0.003		
-20		4.99	0.003		
-30		-5.30	-0.003		
20	Maximum Voltage	-4.83	-0.003		
20	BEP	-4.90	-0.003		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	5.32	0.003	Within Authorized Band	PASS
40		-5.18	-0.003		
30		-5.45	-0.003		
20		9.07	0.005		
10		-5.59	-0.003		
0		5.39	0.003		
-10		-5.42	-0.003		
-20		5.55	0.003		
-30		5.46	0.003		
20	Maximum Voltage	-5.35	-0.003		
20	BEP	-5.15	-0.003		

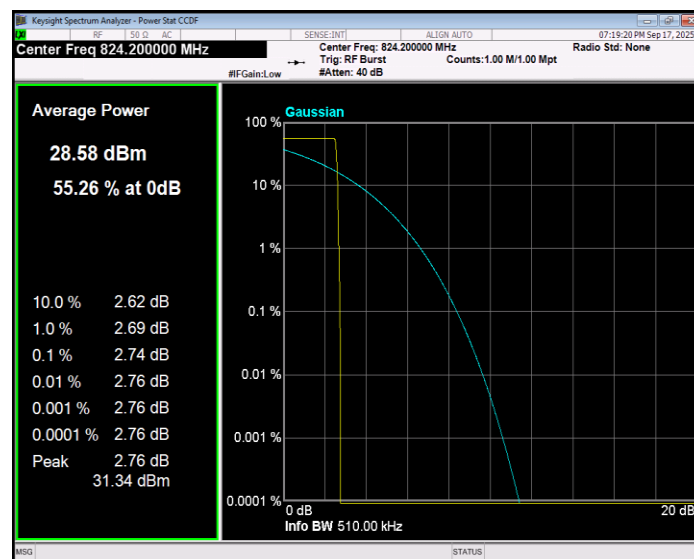


Report

Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM850	128	824.2	2.74	13	PASS
GSM850	190	836.6	2.78	13	PASS
GSM850	251	848.8	2.73	13	PASS
GPRS850	128	824.2	2.78	13	PASS
GPRS850	190	836.6	2.82	13	PASS
GPRS850	251	848.8	2.76	13	PASS
EGPRS850	128	824.2	2.78	13	PASS
EGPRS850	190	836.6	2.82	13	PASS
EGPRS850	251	848.8	2.77	13	PASS
GSM1900	512	1850.2	2.78	13	PASS
GSM1900	661	1880	2.79	13	PASS
GSM1900	810	1909.8	2.80	13	PASS
GPRS1900	512	1850.2	2.83	13	PASS
GPRS1900	661	1880	2.81	13	PASS
GPRS1900	810	1909.8	2.85	13	PASS
EGPRS1900	512	1850.2	2.84	13	PASS
EGPRS1900	661	1880	2.82	13	PASS
EGPRS1900	810	1909.8	2.85	13	PASS

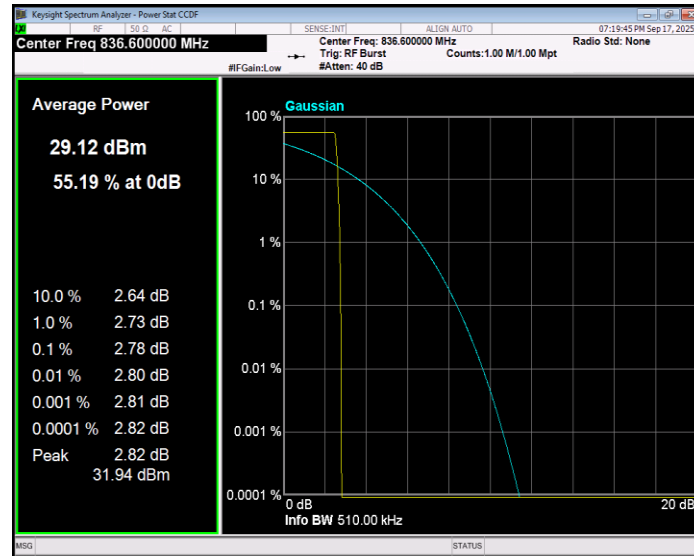
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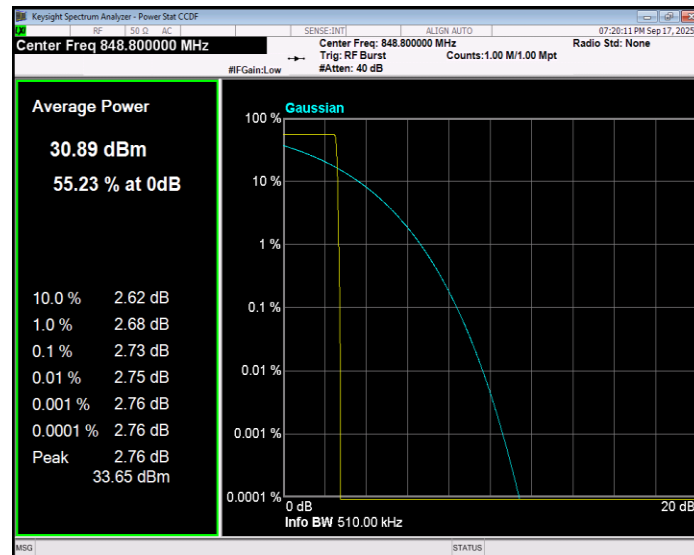
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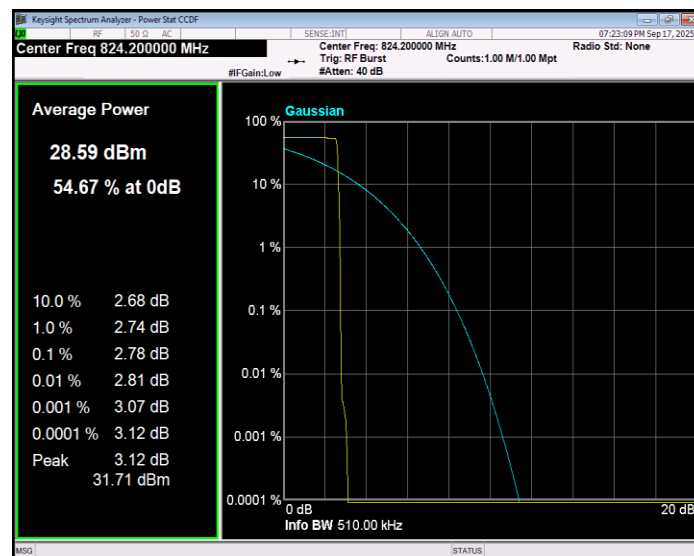
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GSM850 Channel=251



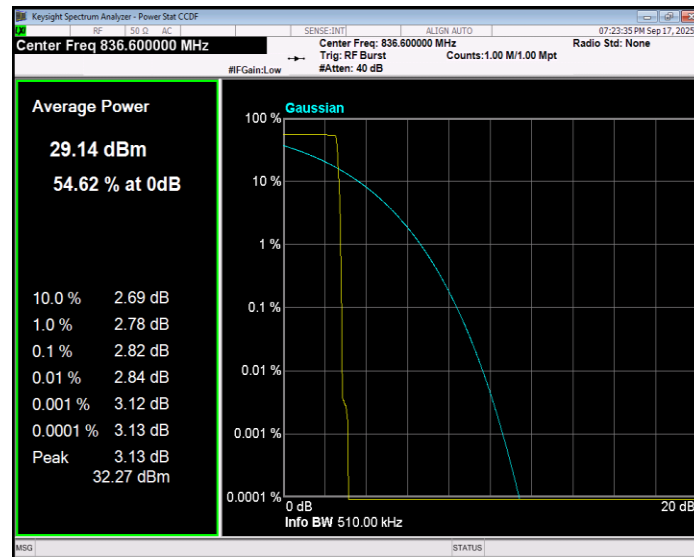
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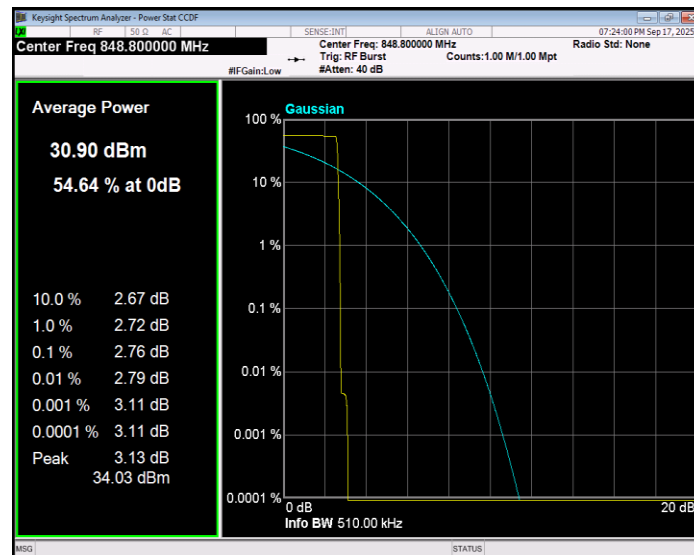


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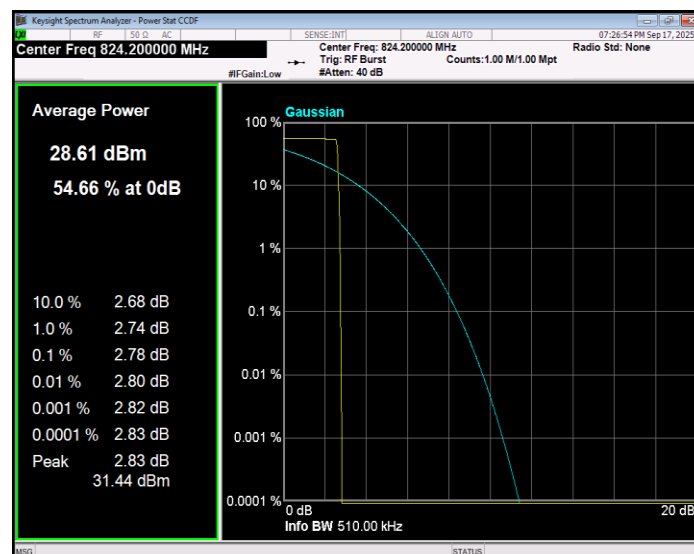
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GPRS850 Channel=251



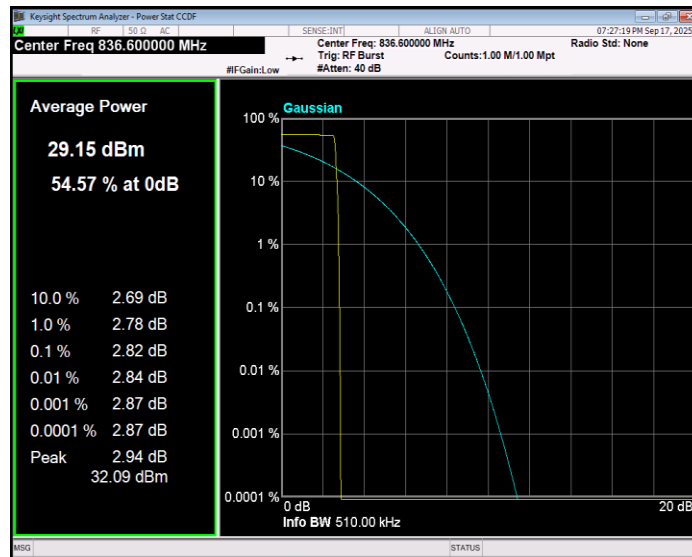
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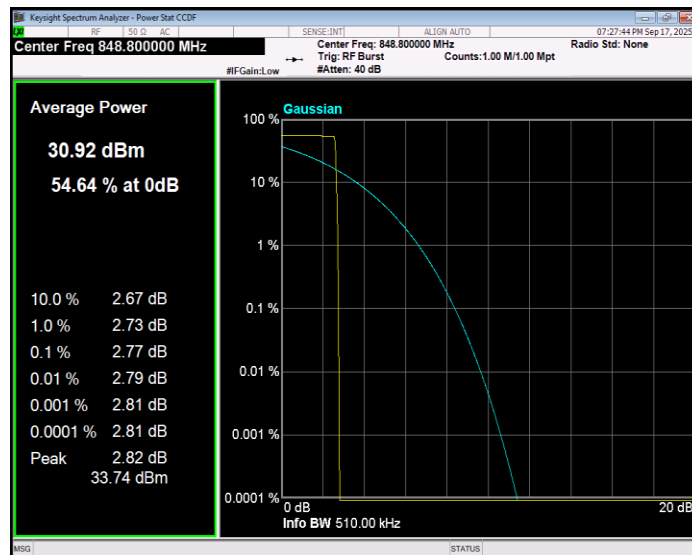


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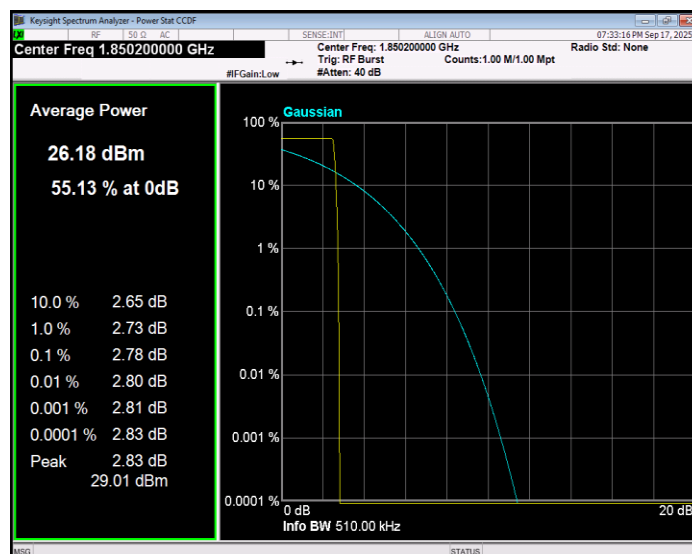
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EGPRS850 Channel=251



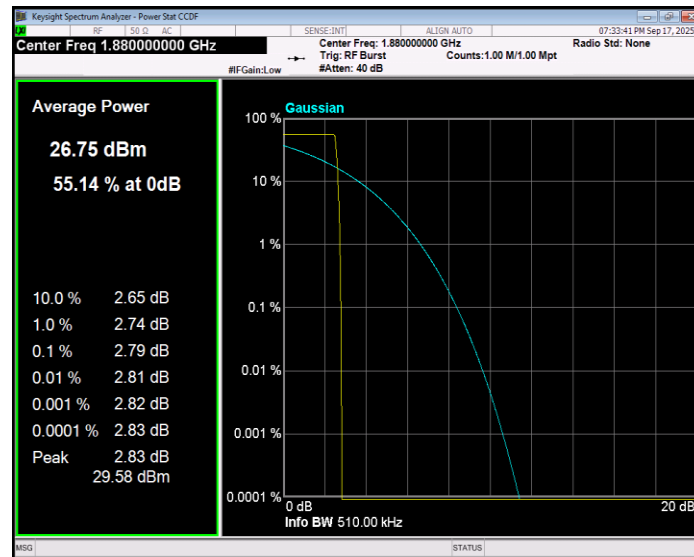
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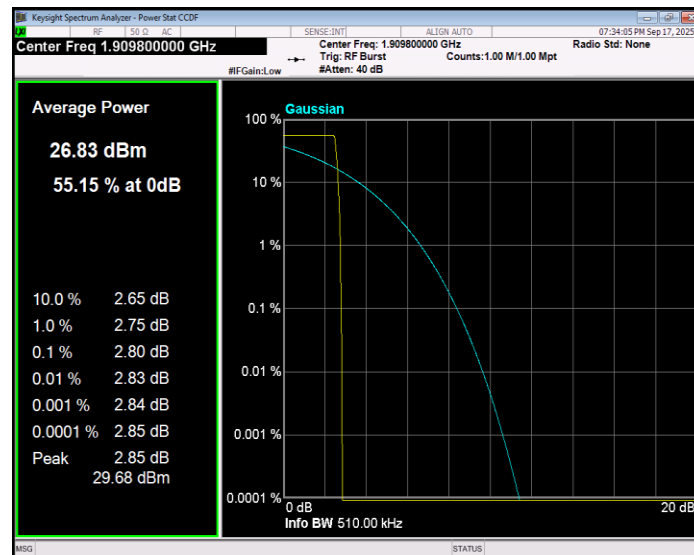


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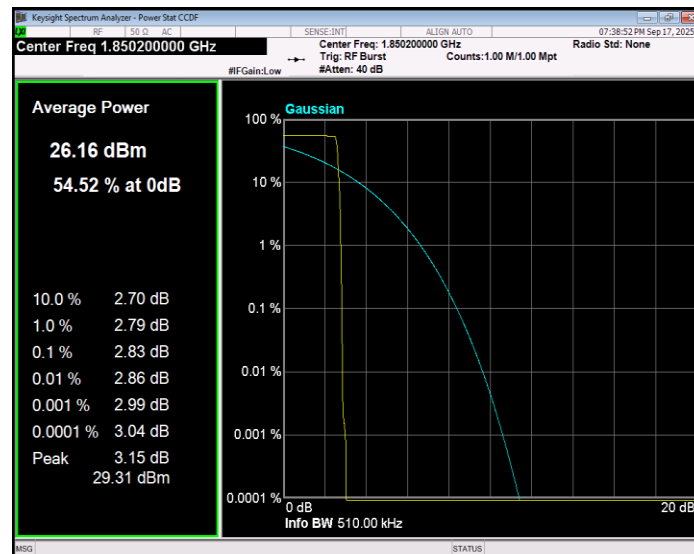
GSM1900 Channel=661



GSM1900 Channel=810



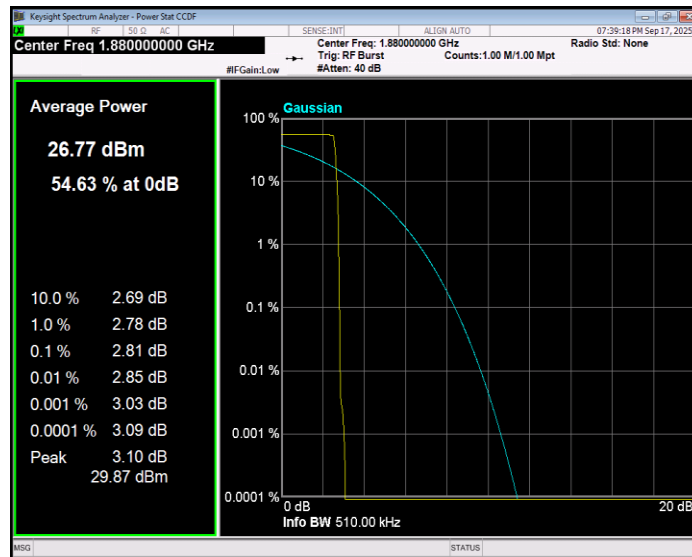
GPRS1900 Channel=512



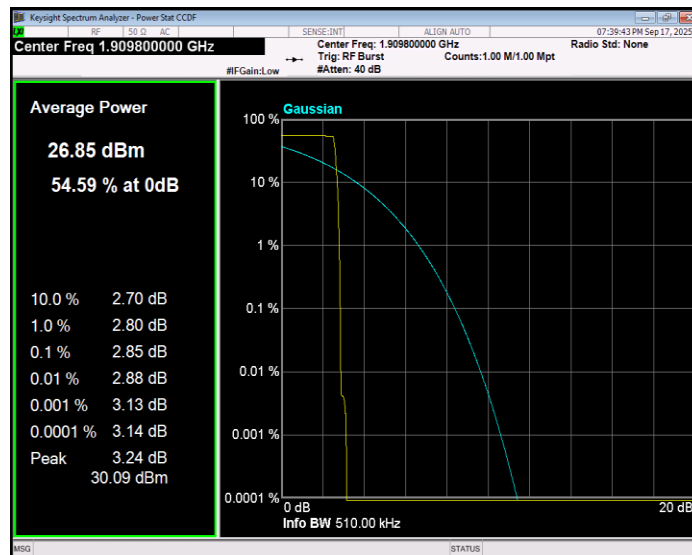


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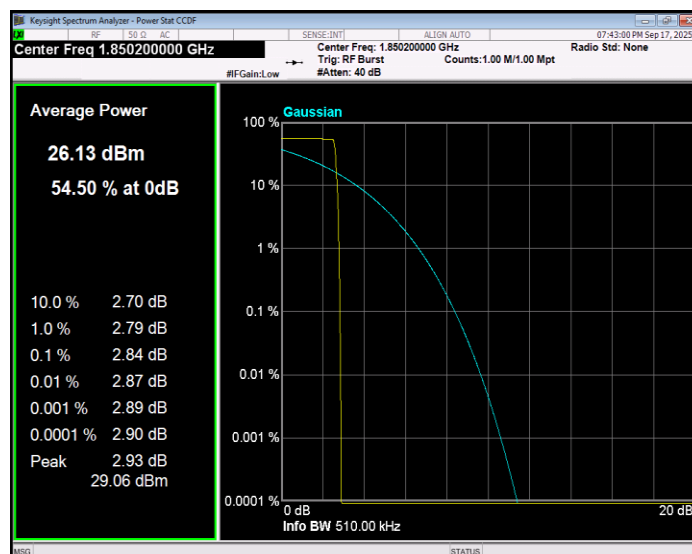
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GPRS1900 Channel=810



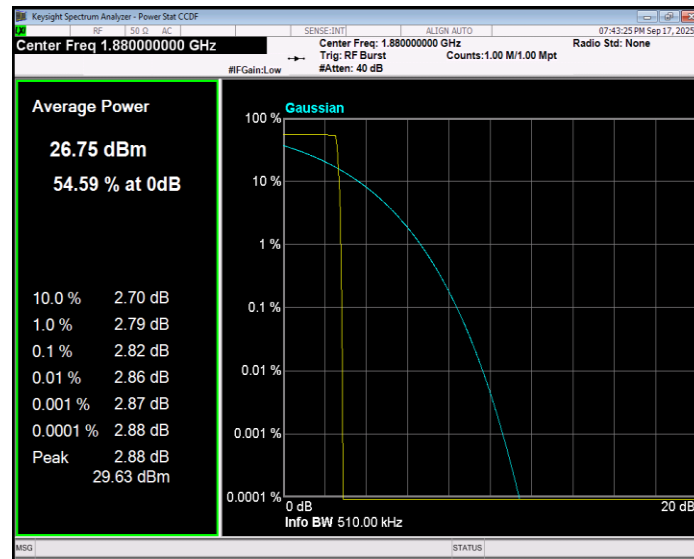
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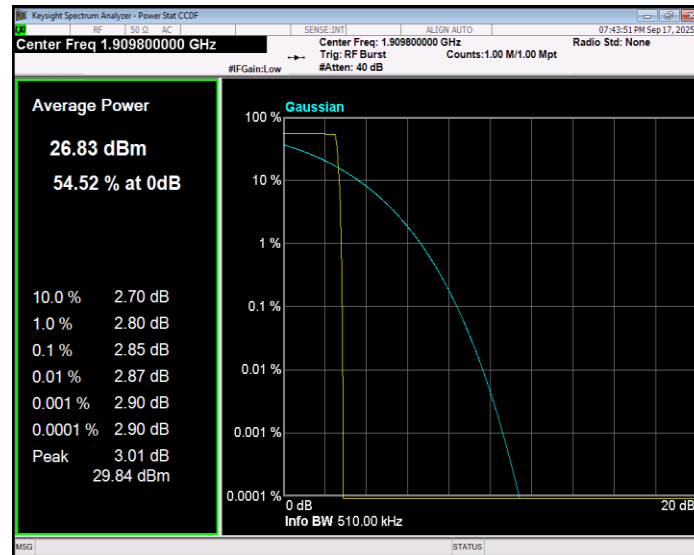


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



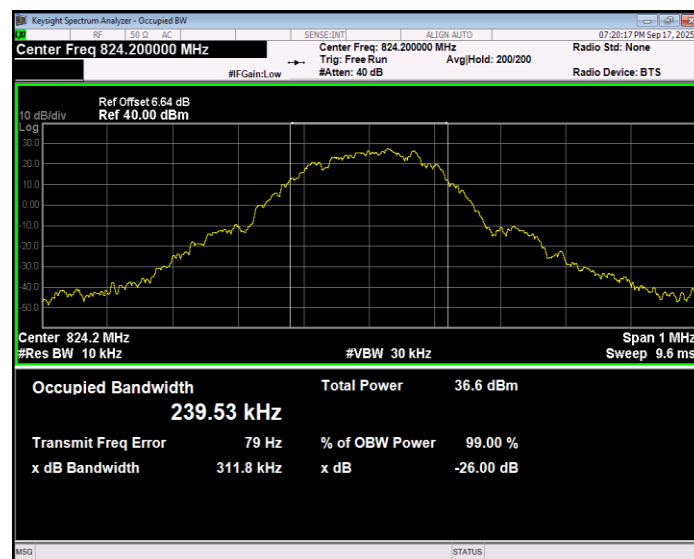


Report

Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	239.528	311.828	PASS
GSM850	190	836.6	237.173	301.814	PASS
GSM850	251	848.8	236.541	303.244	PASS
GPRS850	128	824.2	236.582	315.584	PASS
GPRS850	190	836.6	240.087	321.785	PASS
GPRS850	251	848.8	240.585	313.062	PASS
EGPRS850	128	824.2	245.669	315.969	PASS
EGPRS850	190	836.6	248.345	328.241	PASS
EGPRS850	251	848.8	246.141	319.869	PASS
GSM1900	512	1850.2	239.753	308.542	PASS
GSM1900	661	1880	240.237	306.961	PASS
GSM1900	810	1909.8	239.525	312.167	PASS
GPRS1900	512	1850.2	245.552	310.364	PASS
GPRS1900	661	1880	240.411	318.585	PASS
GPRS1900	810	1909.8	242.979	317.837	PASS
EGPRS1900	512	1850.2	245.903	321.459	PASS
EGPRS1900	661	1880	243.280	311.270	PASS
EGPRS1900	810	1909.8	237.987	316.508	PASS

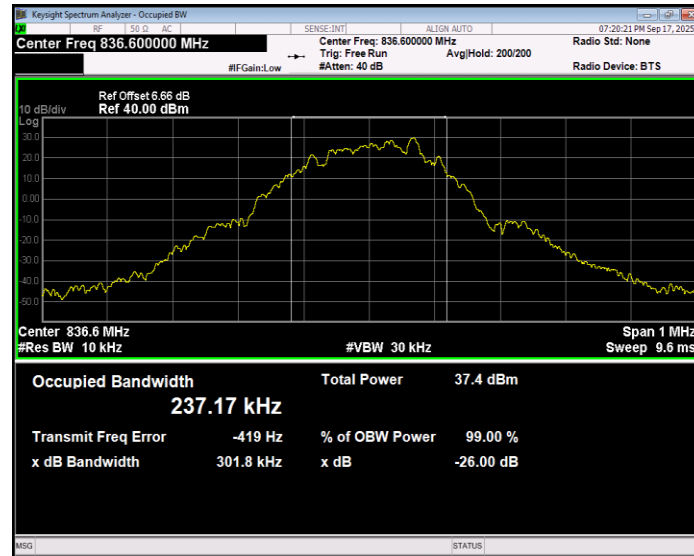
GSM850 Channel=128



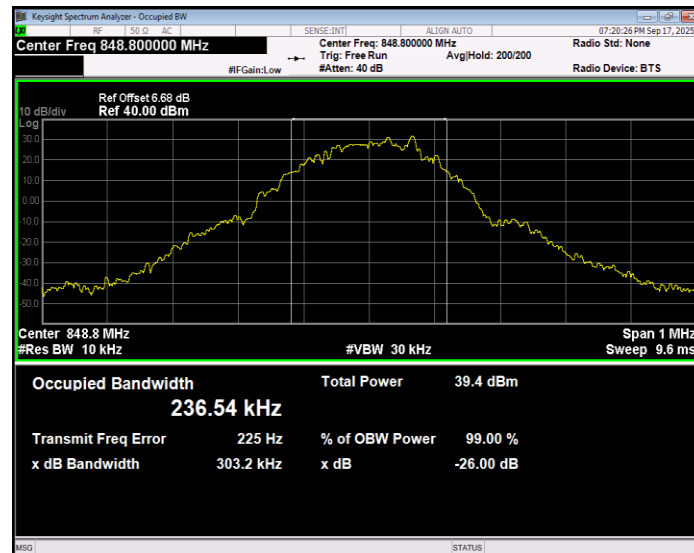
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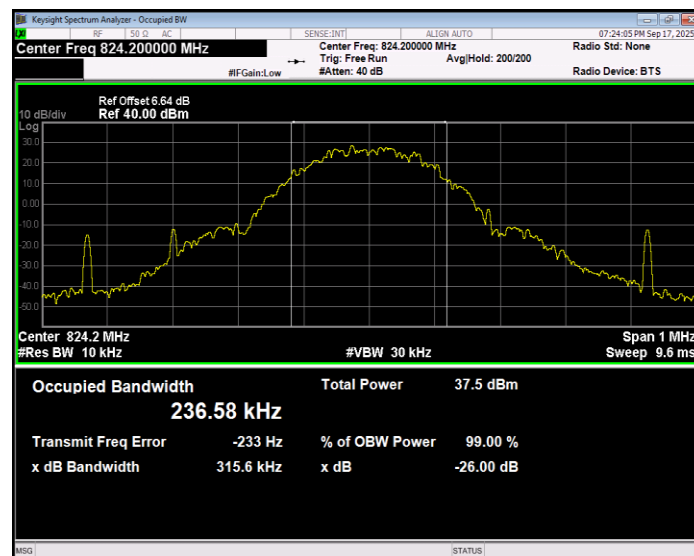
Report



GSM850 Channel=251



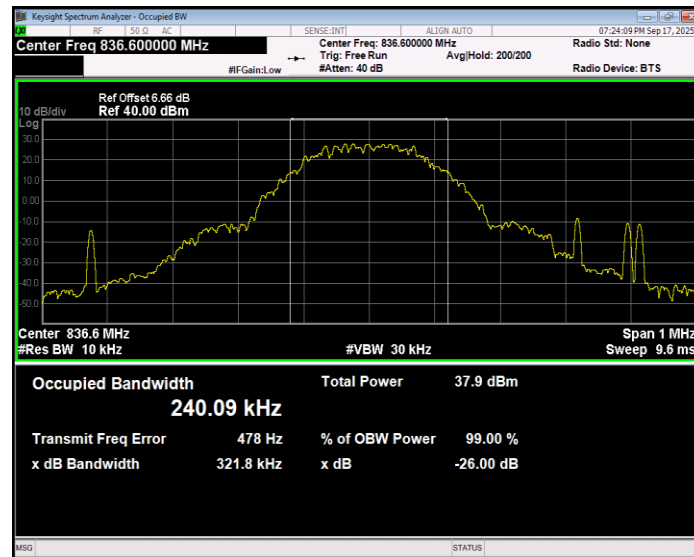
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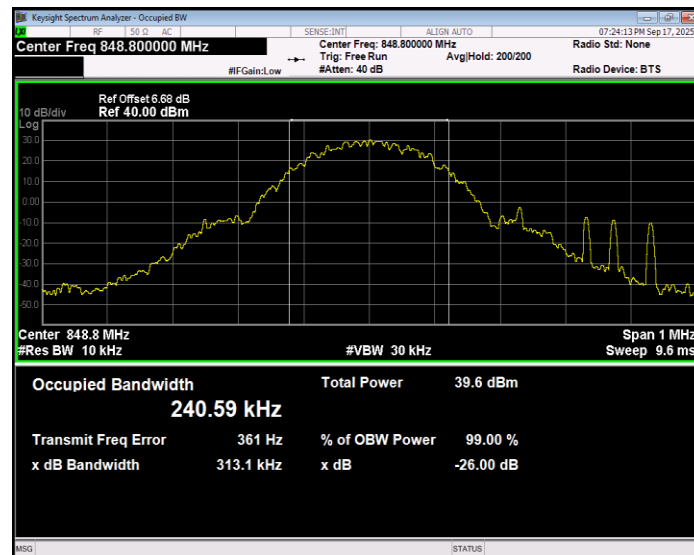


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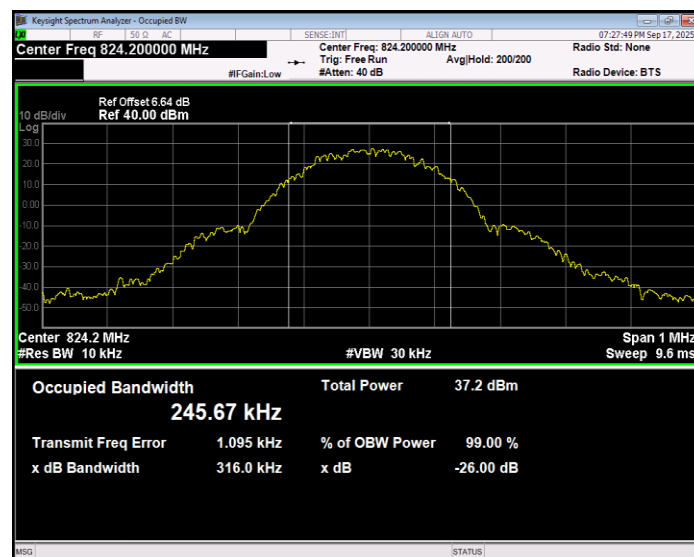
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GPRS850 Channel=251



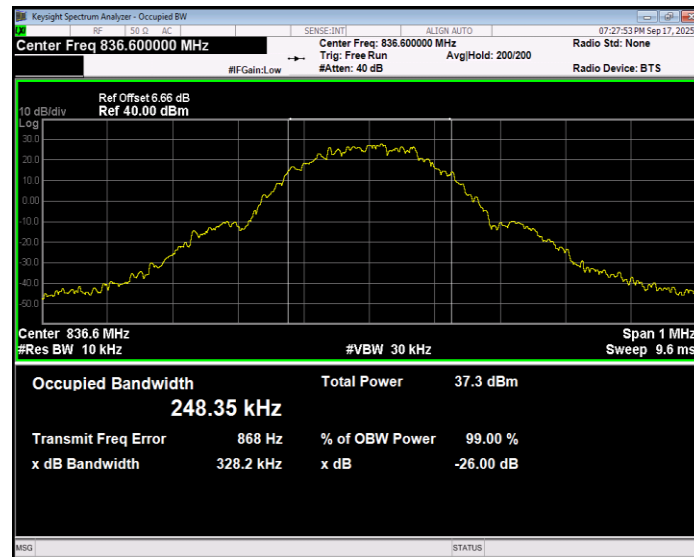
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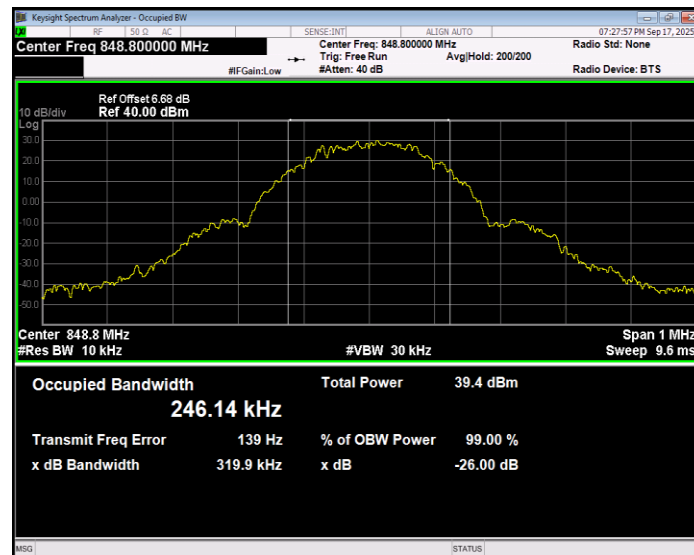


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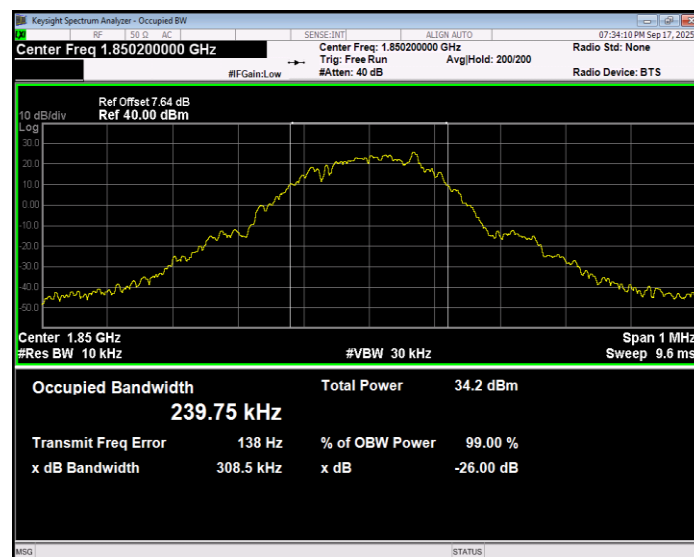
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EGPRS850 Channel=251



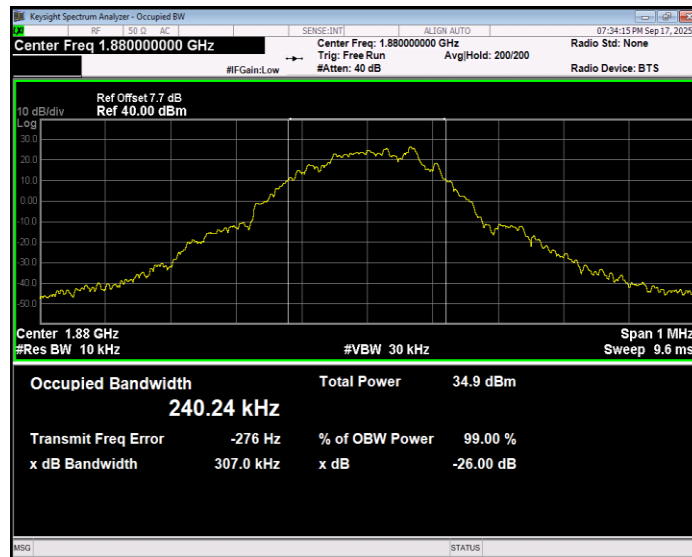
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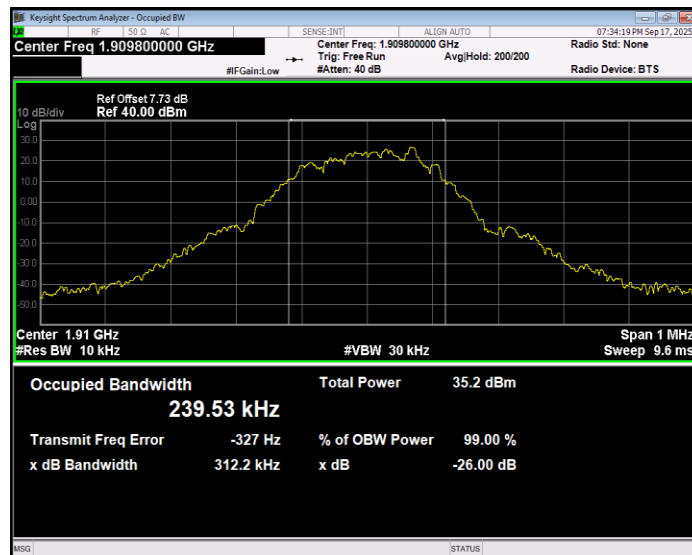


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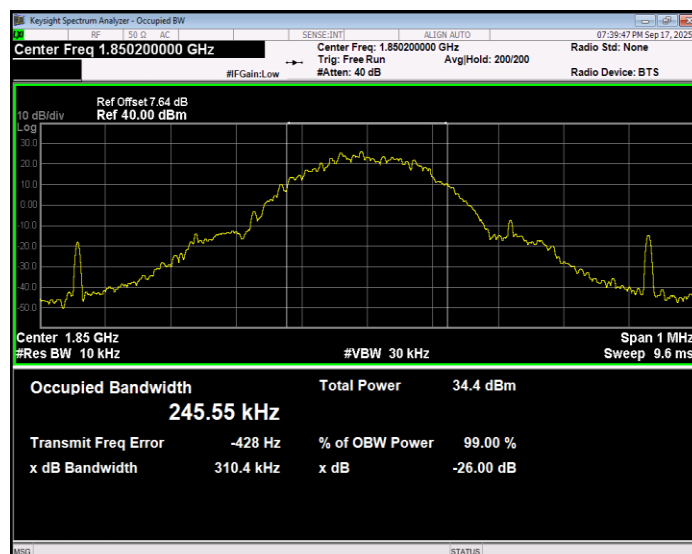
GSM1900 Channel=661



GSM1900 Channel=810



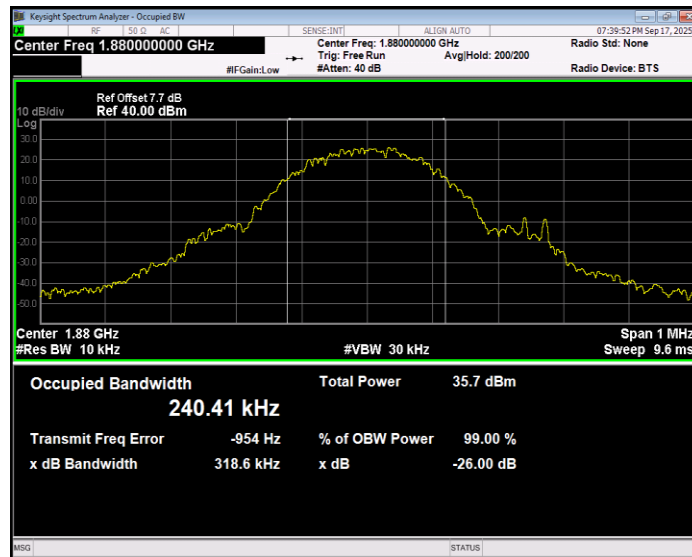
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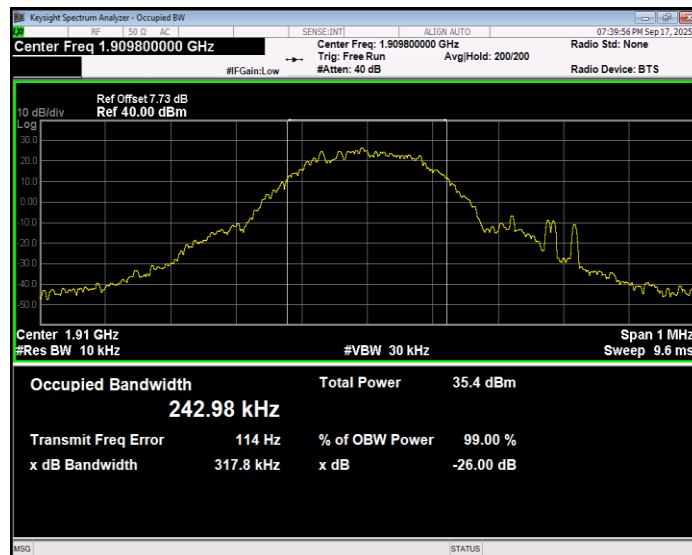


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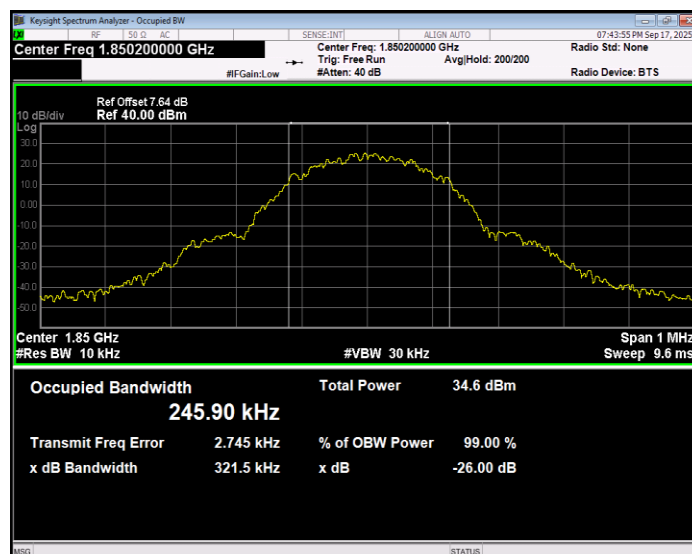
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GPRS1900 Channel=810



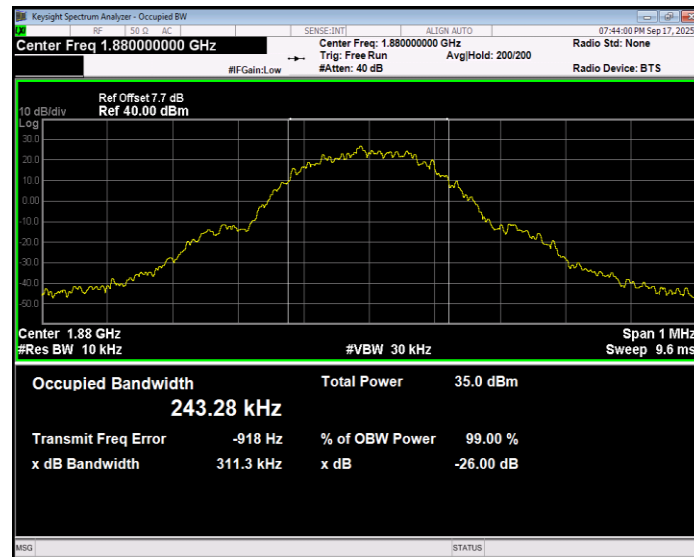
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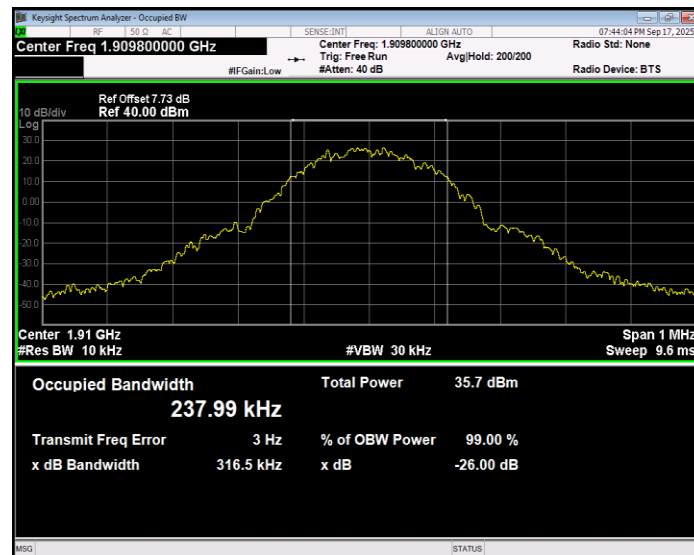


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



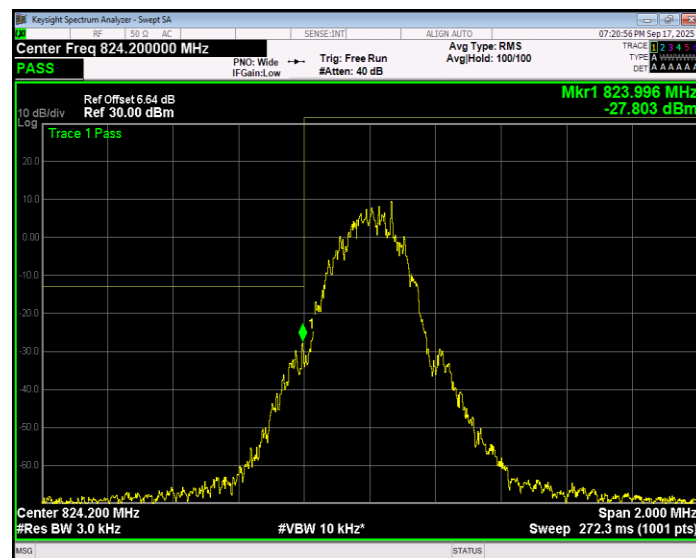


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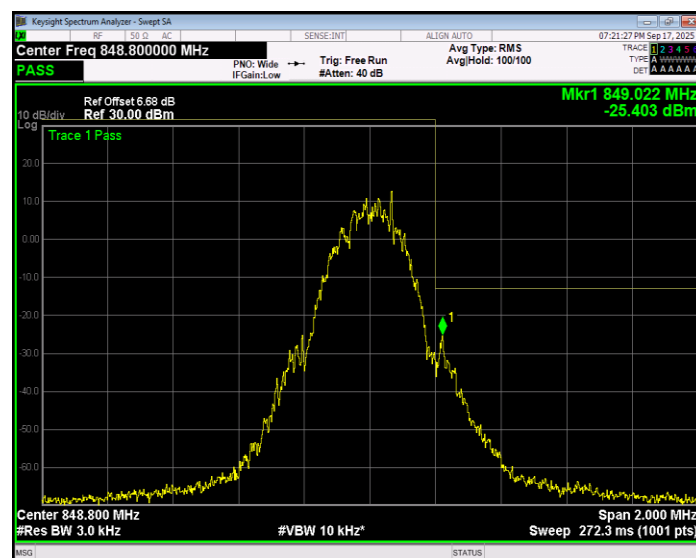
Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	824.00	-27.80	-13	PASS
GSM850	251	848.8	849.02	-25.40	-13	PASS
GPRS850	128	824.2	823.97	-29.91	-13	PASS
GPRS850	251	848.8	849.03	-27.08	-13	PASS
EGPRS850	128	824.2	823.99	-30.90	-13	PASS
EGPRS850	251	848.8	849.02	-27.53	-13	PASS
GSM1900	512	1850.2	1850.00	-29.36	-13	PASS
GSM1900	810	1909.8	1910.02	-29.79	-13	PASS
GPRS1900	512	1850.2	1849.98	-32.13	-13	PASS
GPRS1900	810	1909.8	1910.01	-31.95	-13	PASS
EGPRS1900	512	1850.2	1849.99	-32.90	-13	PASS
EGPRS1900	810	1909.8	1910.02	-31.88	-13	PASS

GSM850 Channel=128



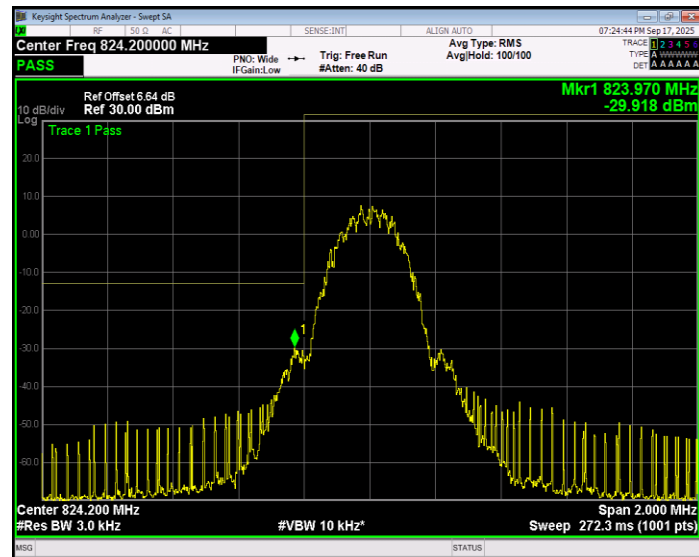
GSM850 Channel=251



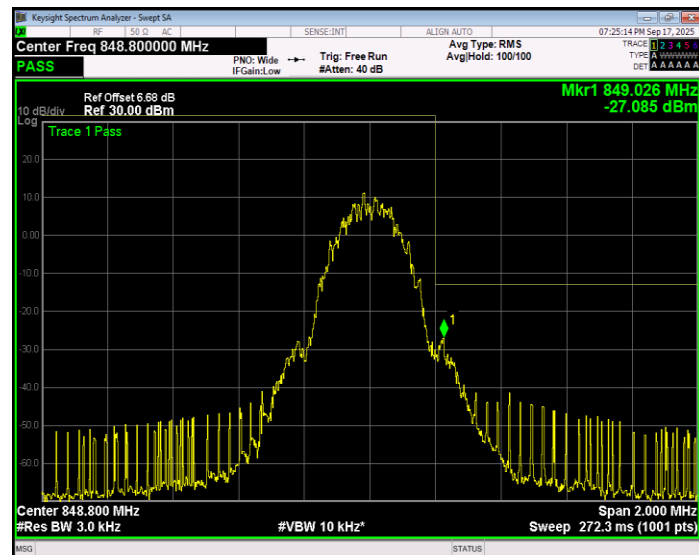


Report

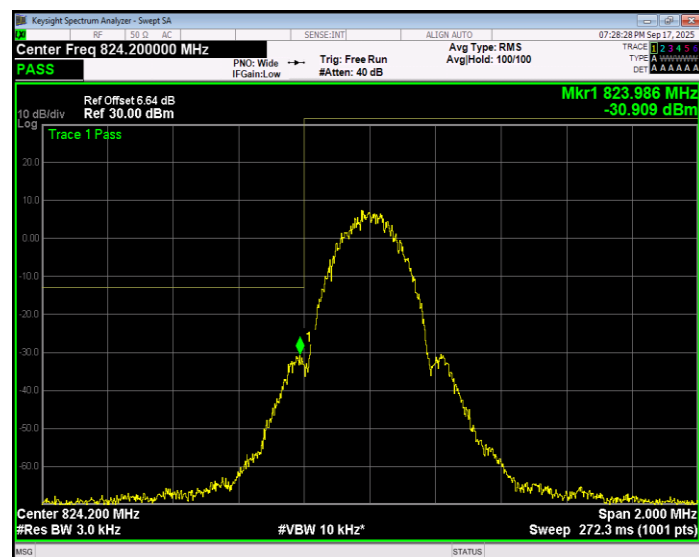
GPRS850 Channel=128



GPRS850 Channel=251



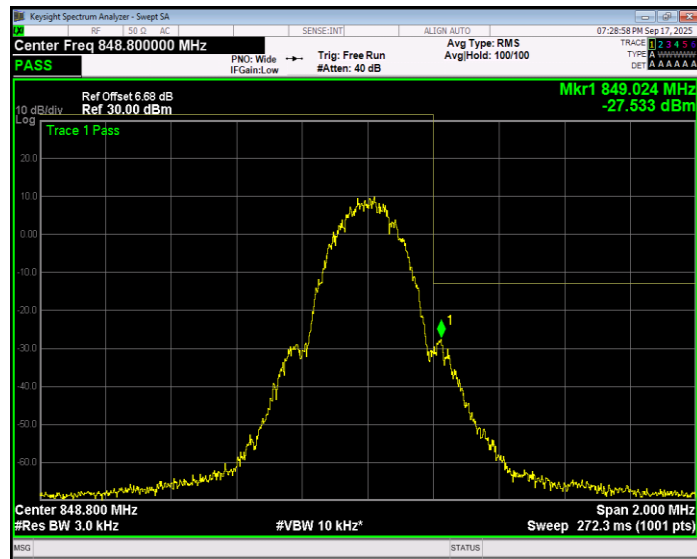
EGPRS850 Channel=128



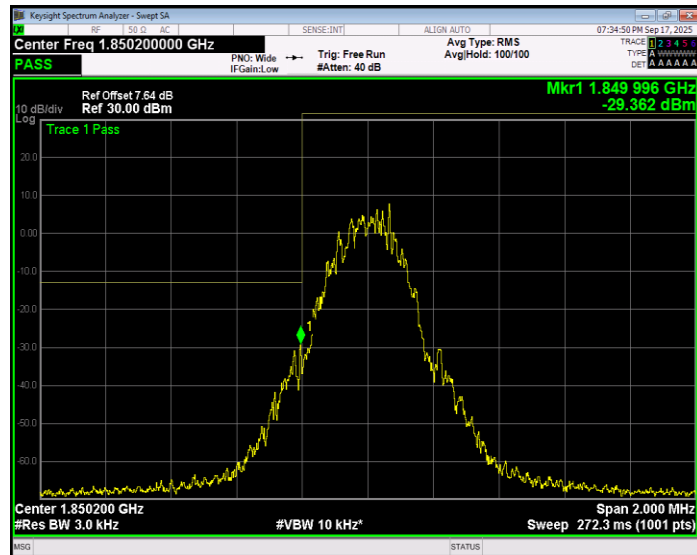


Report

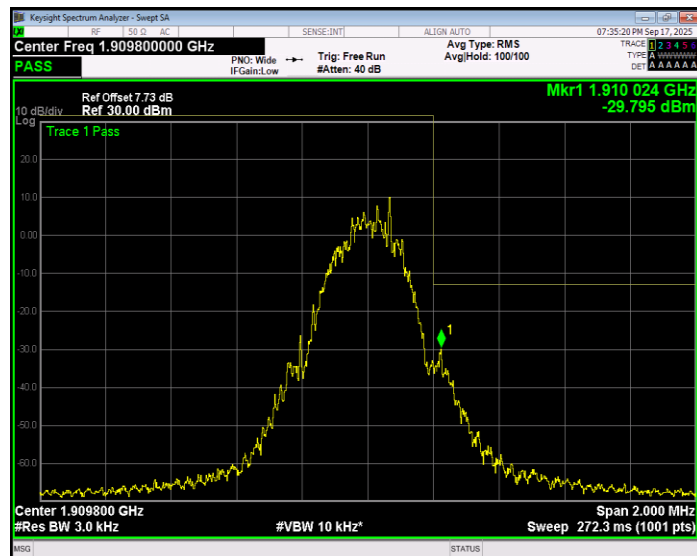
EGPRS850 Channel=251



GSM1900 Channel=512



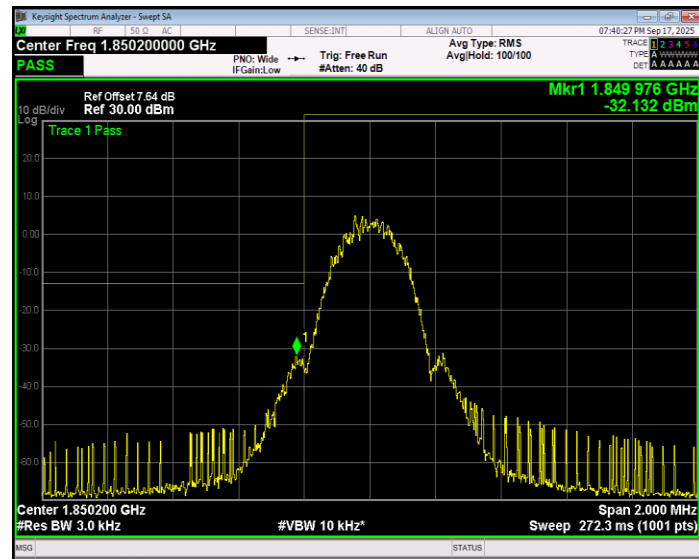
GSM1900 Channel=810



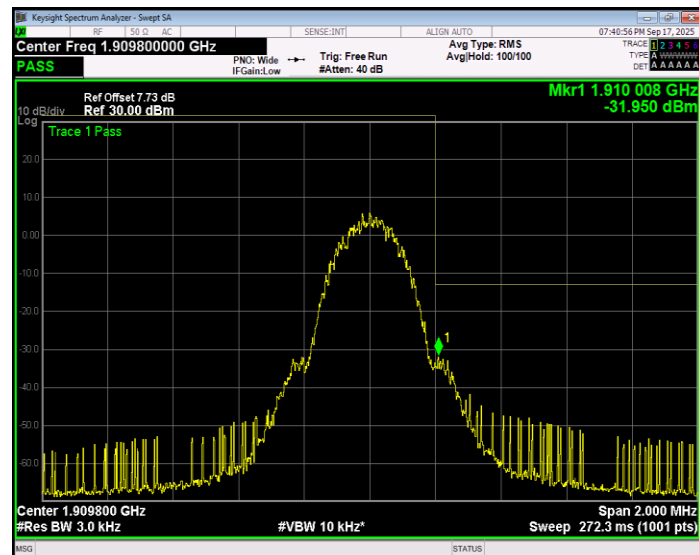


Report

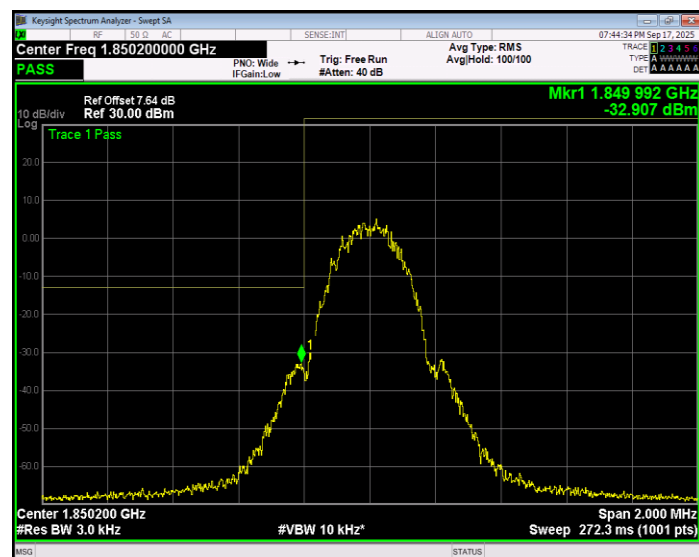
GPRS1900 Channel=512



GPRS1900 Channel=810



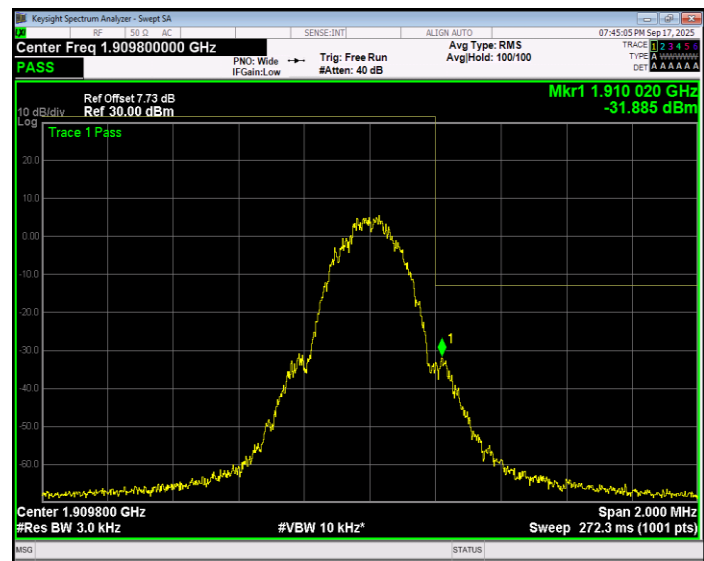
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=810



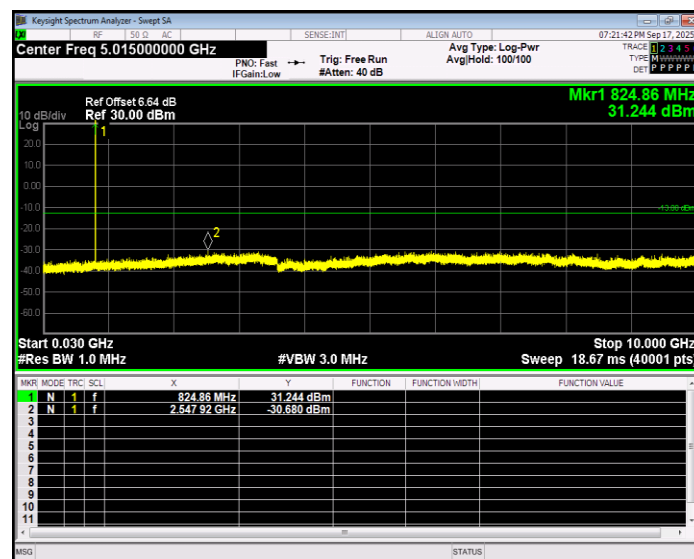


Report

Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	2547.92	-30.68	-13	PASS
GSM850	190	836.6	5244.06	-30.45	-13	PASS
GSM850	251	848.8	5628.40	-29.99	-13	PASS
GPRS850	128	824.2	3173.79	-30.43	-13	PASS
GPRS850	190	836.6	6964.88	-29.39	-13	PASS
GPRS850	251	848.8	6018.23	-30.50	-13	PASS
EGPRS850	128	824.2	7034.42	-30.44	-13	PASS
EGPRS850	190	836.6	3169.55	-30.35	-13	PASS
EGPRS850	251	848.8	3296.92	-30.37	-13	PASS
GSM1900	512	1850.2	19651.02	-22.82	-13	PASS
GSM1900	661	1880	19700.45	-23.09	-13	PASS
GSM1900	810	1909.8	18779.83	-23.38	-13	PASS
GPRS1900	512	1850.2	19676.49	-22.88	-13	PASS
GPRS1900	661	1880	19670.50	-23.41	-13	PASS
GPRS1900	810	1909.8	19999.50	-22.80	-13	PASS
EGPRS1900	512	1850.2	19490.77	-23.65	-13	PASS
EGPRS1900	661	1880	19078.88	-23.72	-13	PASS
EGPRS1900	810	1909.8	16653.03	-23.31	-13	PASS

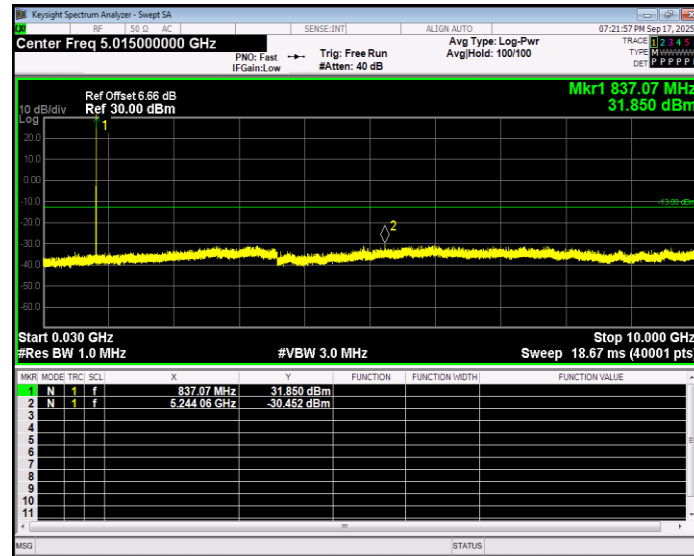
GSM850 Channel=128



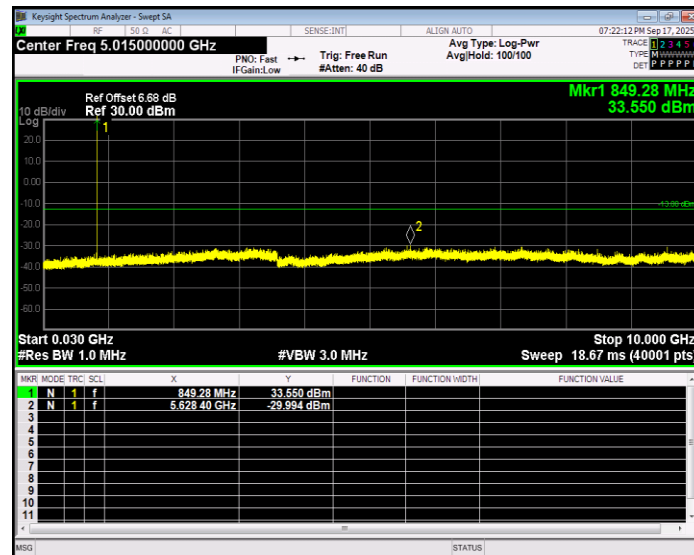
GSM850 Channel=190



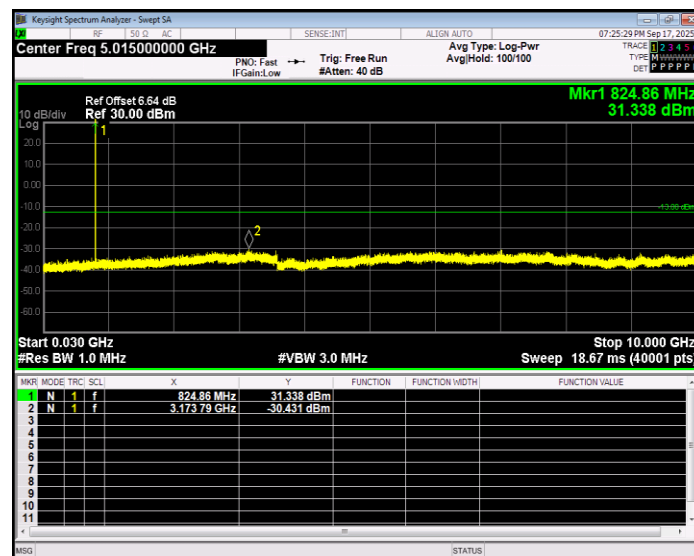
Report



GSM850 Channel=251



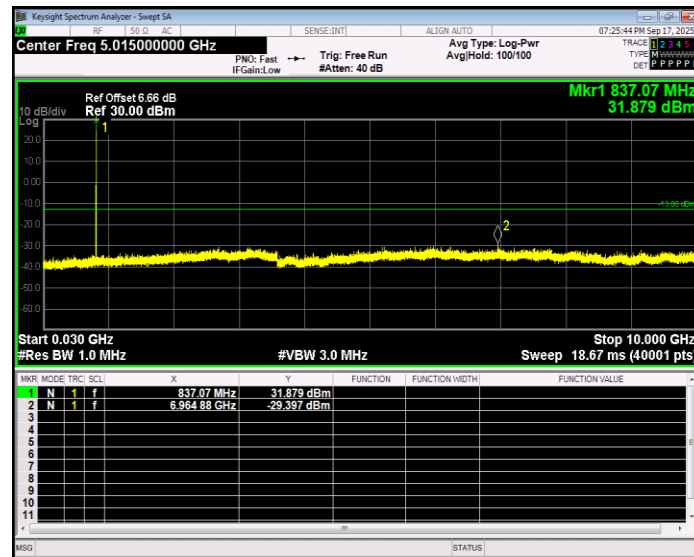
GPRS850 Channel=128



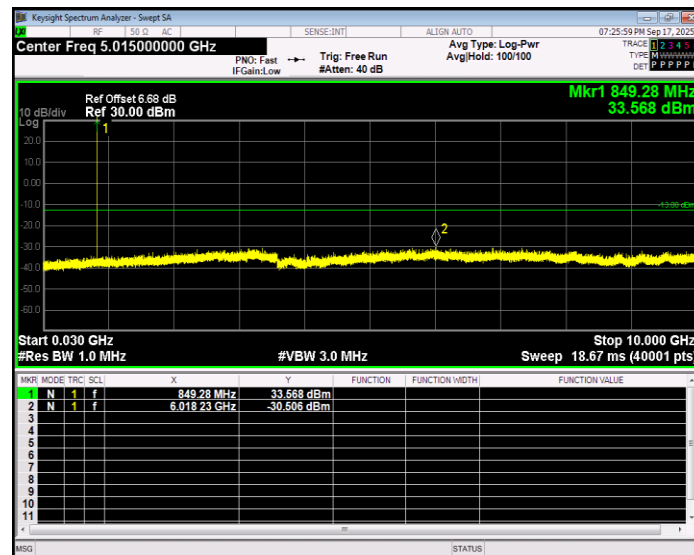


Report

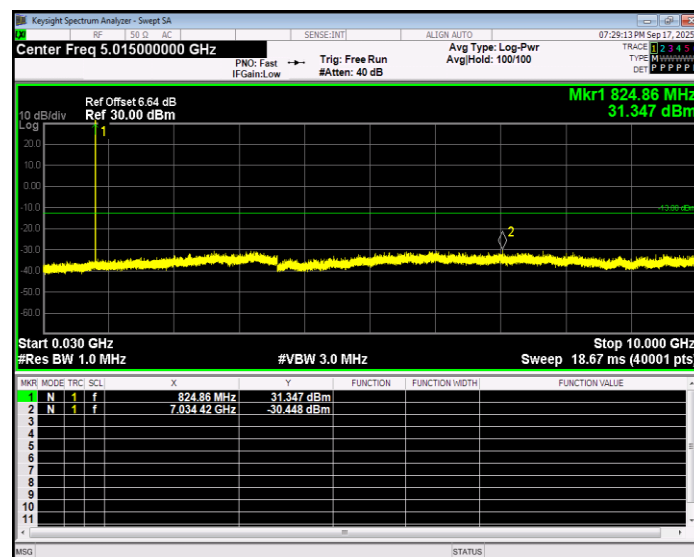
GPRS850 Channel=190



GPRS850 Channel=251



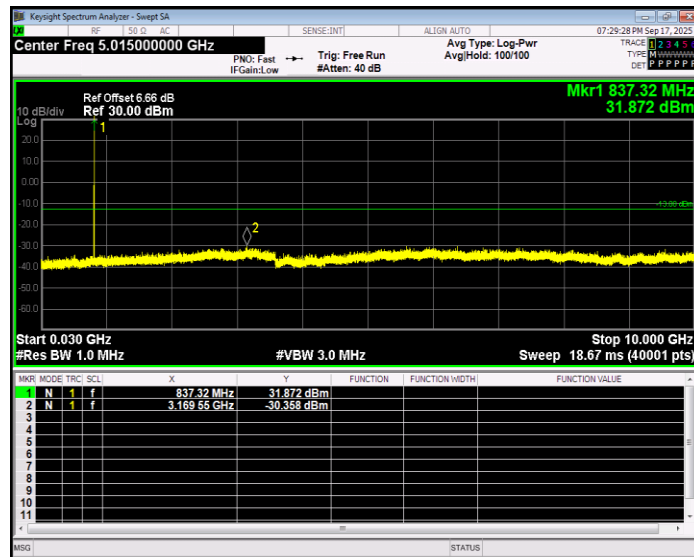
EGPRS850 Channel=128



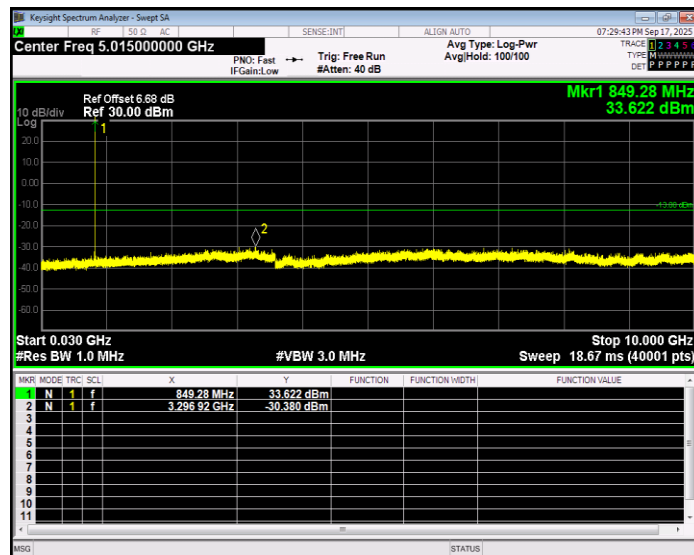


Report

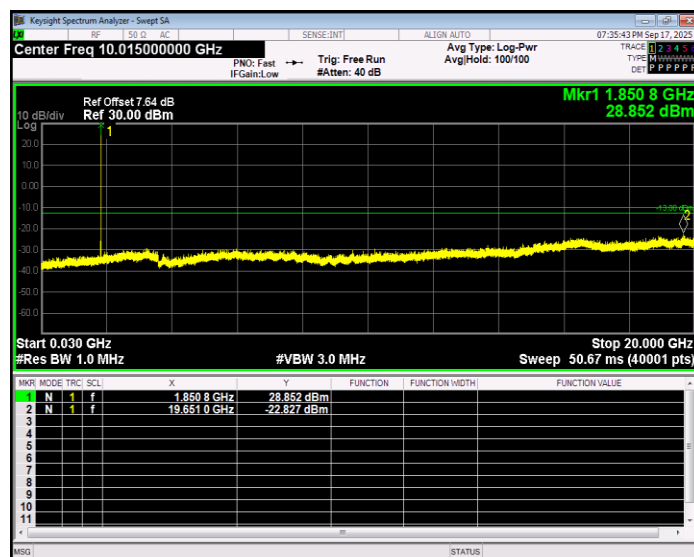
EGPRS850 Channel=190



EGPRS850 Channel=251



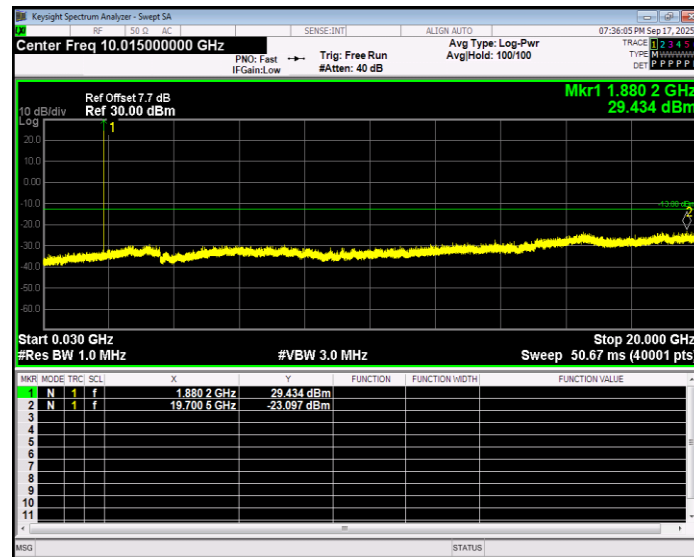
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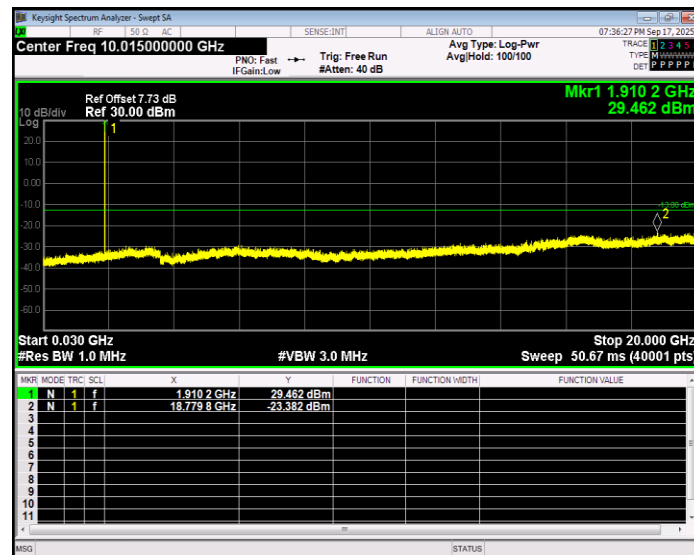


Report

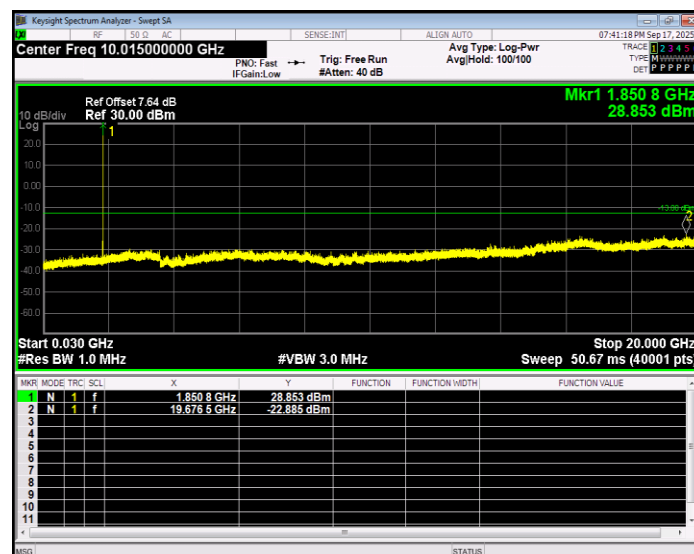
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GSM1900 Channel=810



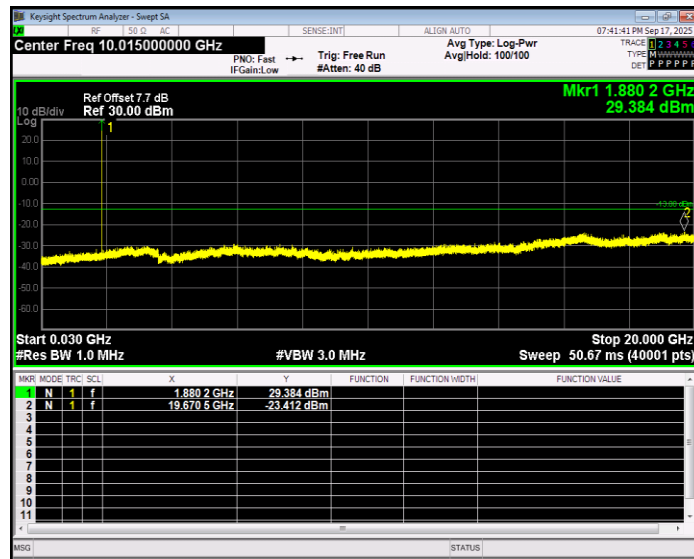
GPRS1900 Channel=512



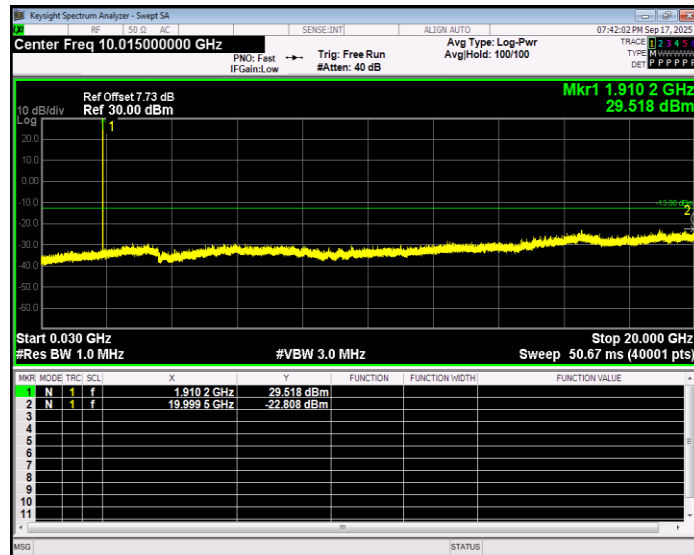


Report

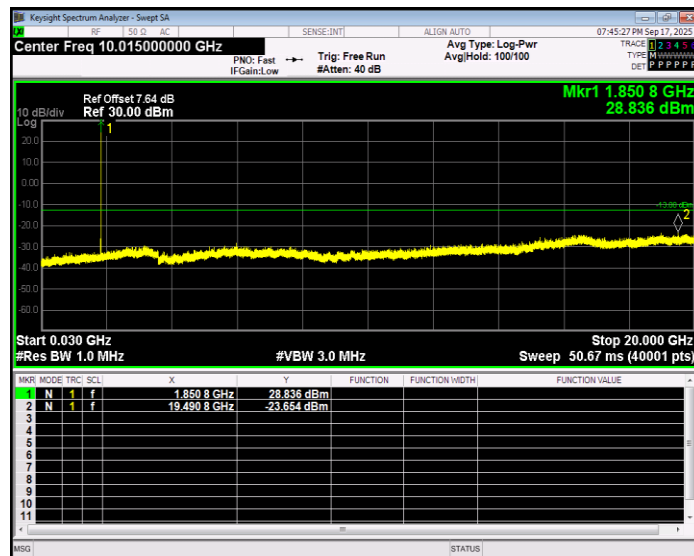
GPRS1900 Channel=661



GPRS1900 Channel=810



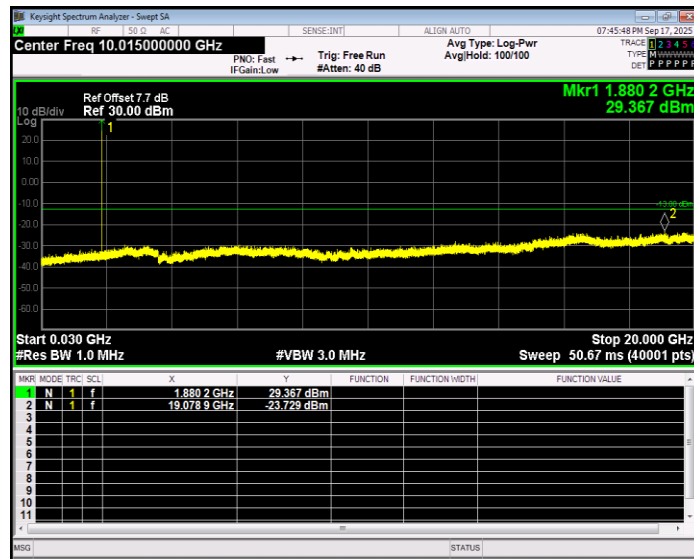
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810

