



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	33.73	-2.45	29.13	38.45	PASS
GSM850	190	836.6	33.28	-2.45	28.68	38.45	PASS
GSM850	251	848.8	33.27	-2.45	28.67	38.45	PASS
GPRS850 1 Slot	128	824.2	33.69	-2.45	29.09	38.45	PASS
GPRS850 1 Slot	190	836.6	33.24	-2.45	28.64	38.45	PASS
GPRS850 1 Slot	251	848.8	33.23	-2.45	28.63	38.45	PASS
GPRS850 2 Slot	128	824.2	32.93	-2.45	28.33	38.45	PASS
GPRS850 2 Slot	190	836.6	32.48	-2.45	27.88	38.45	PASS
GPRS850 2 Slot	251	848.8	32.37	-2.45	27.77	38.45	PASS
GPRS850 3 Slot	128	824.2	31.27	-2.45	26.67	38.45	PASS
GPRS850 3 Slot	190	836.6	30.81	-2.45	26.21	38.45	PASS
GPRS850 3 Slot	251	848.8	30.57	-2.45	25.97	38.45	PASS
GPRS850 4 Slot	128	824.2	30.24	-2.45	25.64	38.45	PASS
GPRS850 4 Slot	190	836.6	29.78	-2.45	25.18	38.45	PASS
GPRS850 4 Slot	251	848.8	29.45	-2.45	24.85	38.45	PASS
EGPRS850 1 Slot	128	824.2	27.99	-2.45	23.39	38.45	PASS
EGPRS850 1 Slot	190	836.6	27.58	-2.45	22.98	38.45	PASS
EGPRS850 1 Slot	251	848.8	27.38	-2.45	22.78	38.45	PASS
EGPRS850 2 Slot	128	824.2	26.69	-2.45	22.09	38.45	PASS
EGPRS850 2 Slot	190	836.6	26.38	-2.45	21.78	38.45	PASS
EGPRS850 2 Slot	251	848.8	26.19	-2.45	21.59	38.45	PASS
EGPRS850 3 Slot	128	824.2	24.62	-2.45	20.02	38.45	PASS
EGPRS850 3 Slot	190	836.6	24.48	-2.45	19.88	38.45	PASS
EGPRS850 3 Slot	251	848.8	24.23	-2.45	19.63	38.45	PASS
EGPRS850 4 Slot	128	824.2	23.40	-2.45	18.80	38.45	PASS
EGPRS850 4 Slot	190	836.6	23.18	-2.45	18.58	38.45	PASS
EGPRS850 4 Slot	251	848.8	22.77	-2.45	18.17	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	30.90	0.54	31.44	33.01	PASS
GSM1900	661	1880	30.92	0.54	31.46	33.01	PASS
GSM1900	810	1909.8	30.87	0.54	31.41	33.01	PASS
GPRS1900 1 Slot	512	1850.2	30.86	0.54	31.40	33.01	PASS
GPRS1900 1 Slot	661	1880	30.89	0.54	31.43	33.01	PASS
GPRS1900 1 Slot	810	1909.8	30.83	0.54	31.37	33.01	PASS
GPRS1900 2 Slot	512	1850.2	30.04	0.54	30.58	33.01	PASS
GPRS1900 2 Slot	661	1880	30.05	0.54	30.59	33.01	PASS
GPRS1900 2 Slot	810	1909.8	30.04	0.54	30.58	33.01	PASS
GPRS1900 3 Slot	512	1850.2	27.90	0.54	28.44	33.01	PASS
GPRS1900 3 Slot	661	1880	27.90	0.54	28.44	33.01	PASS
GPRS1900 3 Slot	810	1909.8	27.93	0.54	28.47	33.01	PASS
GPRS1900 4 Slot	512	1850.2	26.57	0.54	27.11	33.01	PASS
GPRS1900 4 Slot	661	1880	26.55	0.54	27.09	33.01	PASS
GPRS1900 4 Slot	810	1909.8	26.57	0.54	27.11	33.01	PASS
EGPRS1900 1 Slot	512	1850.2	26.94	0.54	27.48	33.01	PASS
EGPRS1900 1 Slot	661	1880	26.85	0.54	27.39	33.01	PASS
EGPRS1900 1 Slot	810	1909.8	26.60	0.54	27.14	33.01	PASS
EGPRS1900 2 Slot	512	1850.2	25.17	0.54	25.71	33.01	PASS
EGPRS1900 2 Slot	661	1880	25.19	0.54	25.73	33.01	PASS
EGPRS1900 2 Slot	810	1909.8	25.39	0.54	25.93	33.01	PASS
EGPRS1900 3 Slot	512	1850.2	24.00	0.54	24.54	33.01	PASS
EGPRS1900 3 Slot	661	1880	23.42	0.54	23.96	33.01	PASS
EGPRS1900 3 Slot	810	1909.8	23.29	0.54	23.83	33.01	PASS
EGPRS1900 4 Slot	512	1850.2	21.95	0.54	22.49	33.01	PASS
EGPRS1900 4 Slot	661	1880	22.02	0.54	22.56	33.01	PASS
EGPRS1900 4 Slot	810	1909.8	22.11	0.54	22.65	33.01	PASS



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Frequency stability

GSM 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	6.30	0.008	2.5ppm	PASS
40		6.25	0.007		
30		5.84	0.007		
20		10.59	0.013		
10		-6.02	-0.007		
0		-6.23	-0.007		
-10		5.84	0.007		
-20		-6.18	-0.007		
-30		6.04	0.007		
20	Maximum Voltage	5.90	0.007		
20	BEP	-6.10	-0.007		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-2.76	-0.003	2.5ppm	PASS
40		2.46	0.003		
30		2.87	0.003		
20		3.84	0.005		
10		2.60	0.003		
0		-3.02	-0.004		
-10		2.83	0.003		
-20		-2.73	-0.003		
-30		-2.52	-0.003		
20	Maximum Voltage	2.57	0.003		
20	BEP	-2.68	-0.003		



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EGPRS 850 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	0.81	0.001	2.5ppm	PASS
40		-1.11	-0.001		
30		1.13	0.001		
20		0.32	0.000		
10		0.76	0.001		
0		-0.81	-0.001		
-10		1.25	0.002		
-20		-0.82	-0.001		
-30		0.82	0.001		
20	Maximum Voltage	1.03	0.001		
20	BEP	-0.69	-0.001		

GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-7.74	-0.004	Within Authorized Band	PASS
40		8.19	0.004		
30		-7.74	-0.004		
20		14.30	0.008		
10		8.15	0.004		
0		-8.06	-0.004		
-10		7.74	0.004		
-20		8.02	0.004		
-30		7.92	0.004		
20	Maximum Voltage	-7.98	-0.004		
20	BEP	8.15	0.004		



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GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	6.89	0.004	Within Authorized Band	PASS
40		7.15	0.004		
30		7.26	0.004		
20		12.27	0.007		
10		-6.89	-0.004		
0		7.25	0.004		
-10		-6.69	-0.004		
-20		-6.86	-0.004		
-30		-6.98	-0.004		
20	Maximum Voltage	-7.07	-0.004		
20	BEP	-6.74	-0.004		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	3.88	0.002	Within Authorized Band	PASS
40		3.71	0.002		
30		4.11	0.002		
20		6.04	0.003		
10		4.02	0.002		
0		-3.84	-0.002		
-10		3.59	0.002		
-20		4.02	0.002		
-30		3.76	0.002		
20	Maximum Voltage	-3.72	-0.002		
20	BEP	-3.76	-0.002		

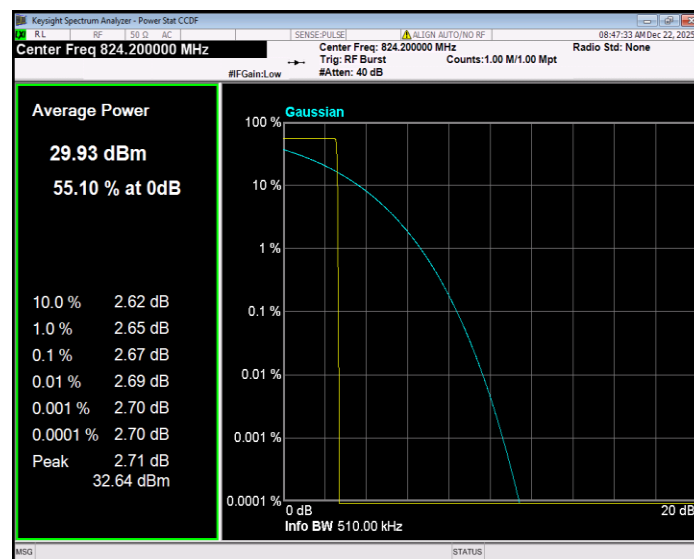


Report

Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM850	128	824.2	2.67	13	PASS
GSM850	190	836.6	2.66	13	PASS
GSM850	251	848.8	2.67	13	PASS
GPRS850	128	824.2	2.71	13	PASS
GPRS850	190	836.6	2.70	13	PASS
GPRS850	251	848.8	2.70	13	PASS
EGPRS850	128	824.2	8.90	13	PASS
EGPRS850	190	836.6	7.88	13	PASS
EGPRS850	251	848.8	8.65	13	PASS
GSM1900	512	1850.2	2.68	13	PASS
GSM1900	661	1880	2.68	13	PASS
GSM1900	810	1909.8	2.68	13	PASS
GPRS1900	512	1850.2	2.71	13	PASS
GPRS1900	661	1880	2.71	13	PASS
GPRS1900	810	1909.8	2.71	13	PASS
EGPRS1900	512	1850.2	6.61	13	PASS
EGPRS1900	661	1880	6.41	13	PASS
EGPRS1900	810	1909.8	6.43	13	PASS

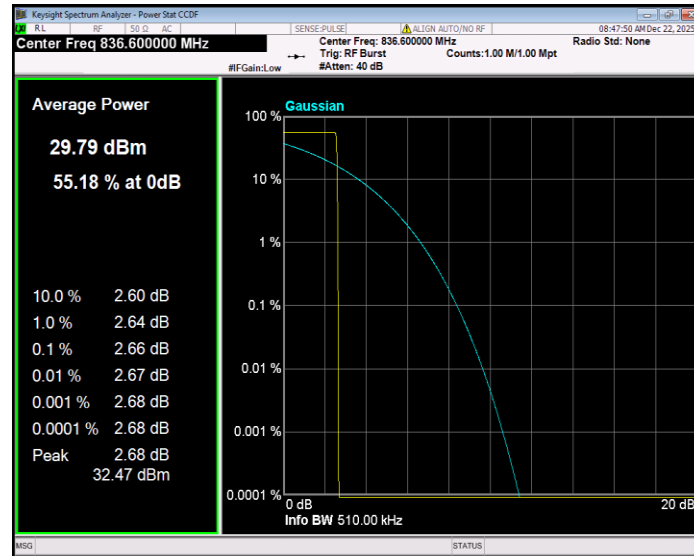
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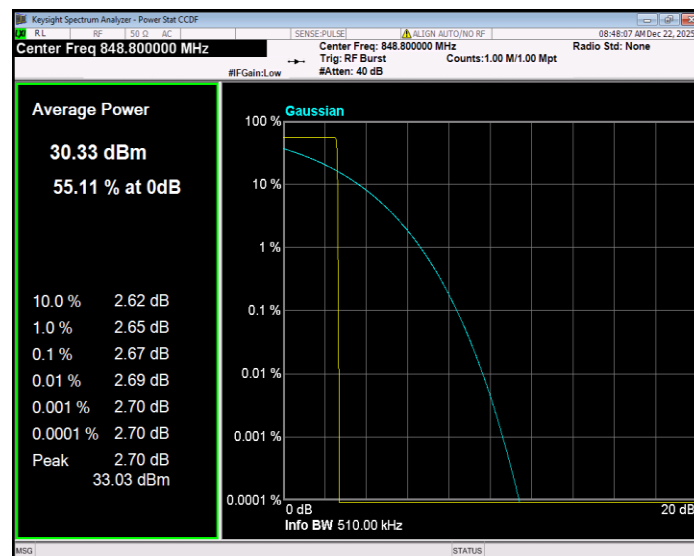
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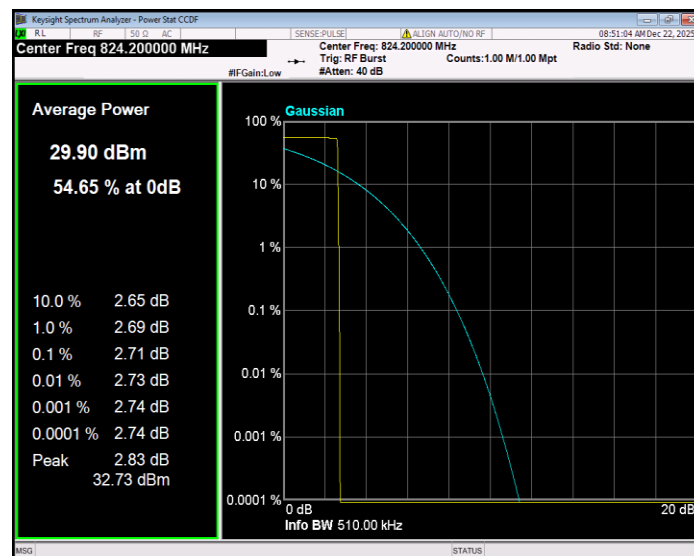
Report



GSM850 Channel=251



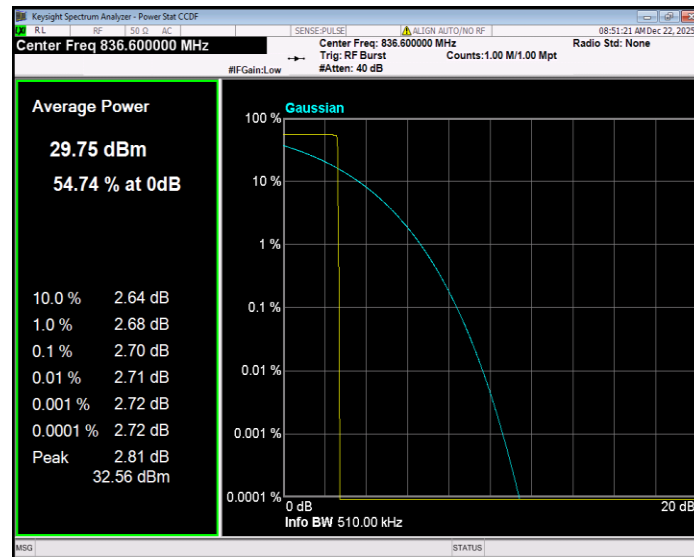
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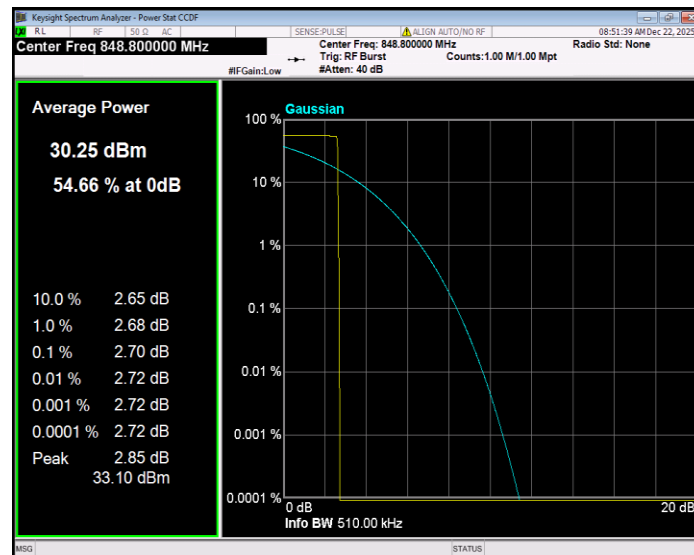


Report

GPRS850 Channel=190



GPRS850 Channel=251



EGPRS850 Channel=128



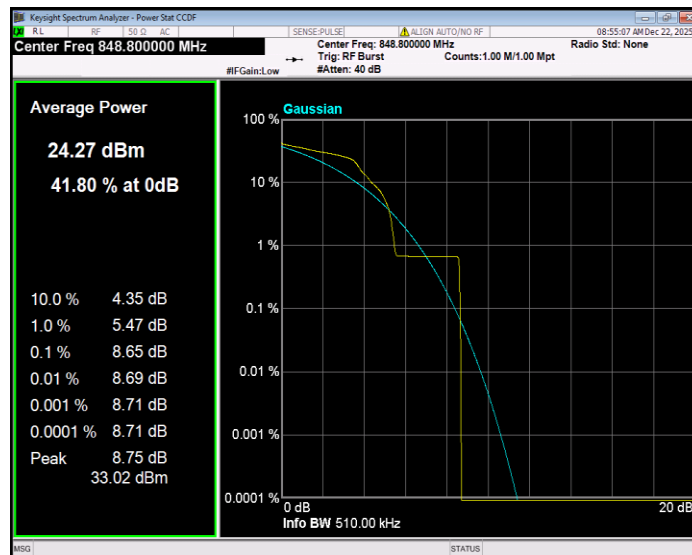


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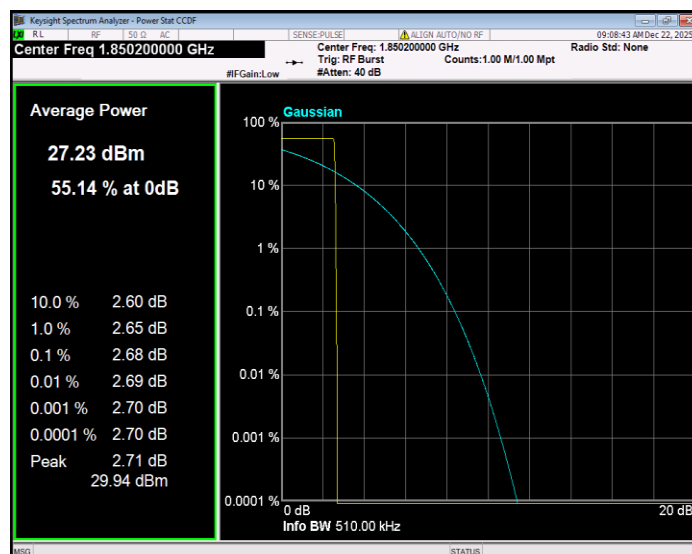
EGPRS850 Channel=190



EGPRS850 Channel=251



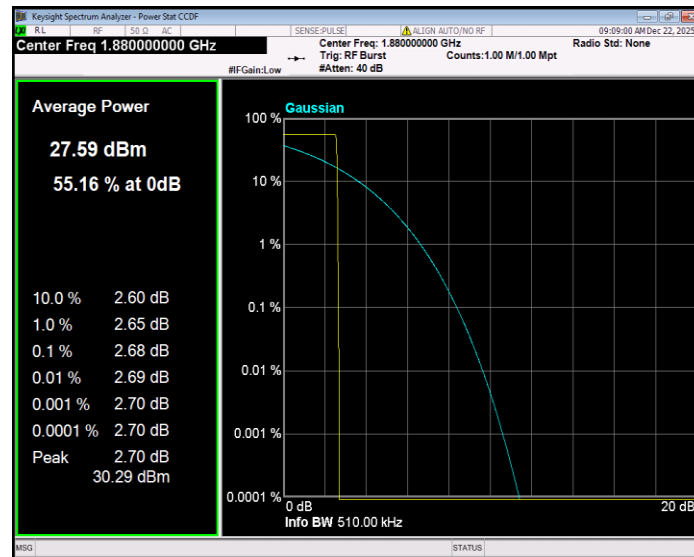
GSM1900 Channel=512





Report

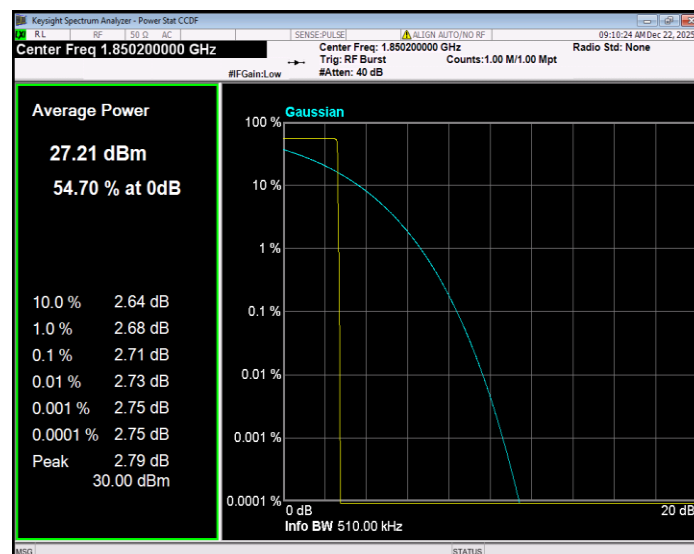
GSM1900 Channel=661



GSM1900 Channel=810



GPRS1900 Channel=512



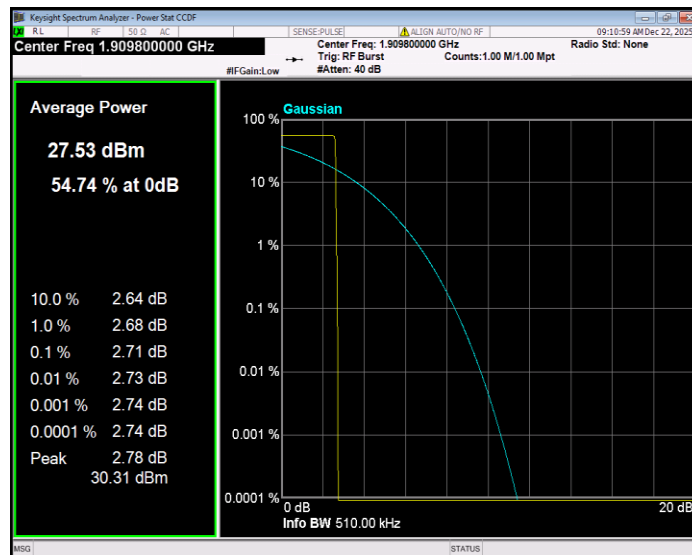


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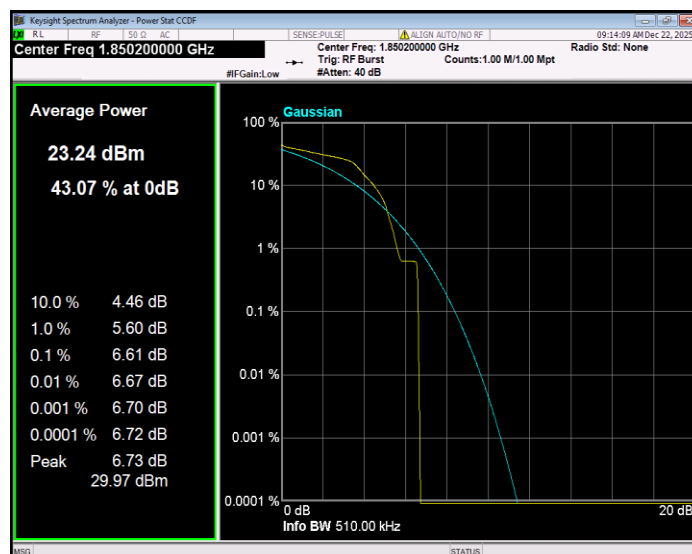
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GPRS1900 Channel=810



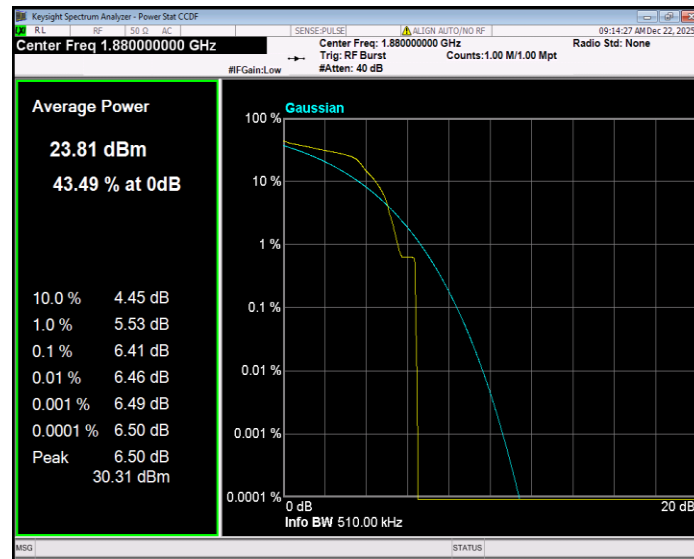
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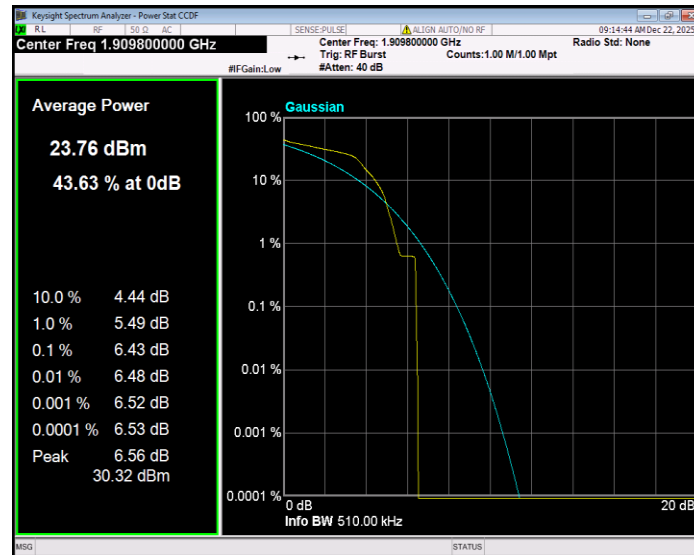


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



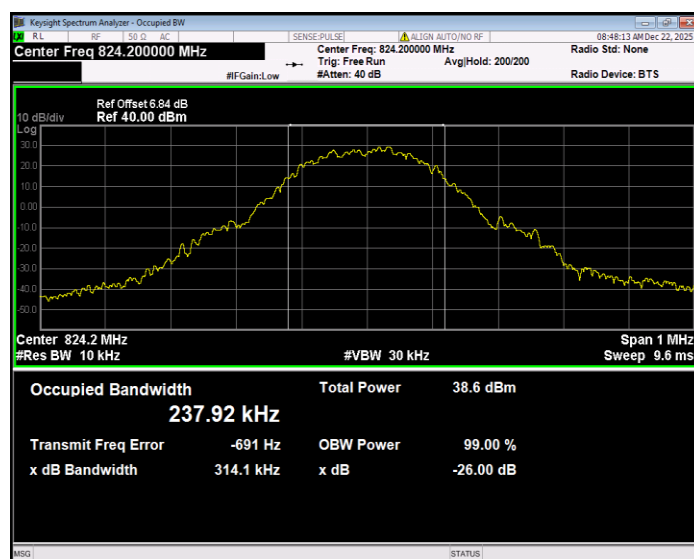


Report

Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	237.919	314.132	PASS
GSM850	190	836.6	249.858	317.776	PASS
GSM850	251	848.8	244.730	314.611	PASS
GPRS850	128	824.2	249.195	312.919	PASS
GPRS850	190	836.6	239.945	308.502	PASS
GPRS850	251	848.8	246.268	312.577	PASS
EGPRS850	128	824.2	251.964	318.857	PASS
EGPRS850	190	836.6	242.714	296.600	PASS
EGPRS850	251	848.8	242.883	299.144	PASS
GSM1900	512	1850.2	247.390	315.589	PASS
GSM1900	661	1880	247.850	315.914	PASS
GSM1900	810	1909.8	243.061	302.935	PASS
GPRS1900	512	1850.2	247.270	307.635	PASS
GPRS1900	661	1880	241.101	312.319	PASS
GPRS1900	810	1909.8	250.021	316.041	PASS
EGPRS1900	512	1850.2	247.828	316.748	PASS
EGPRS1900	661	1880	255.383	305.619	PASS
EGPRS1900	810	1909.8	253.242	321.768	PASS

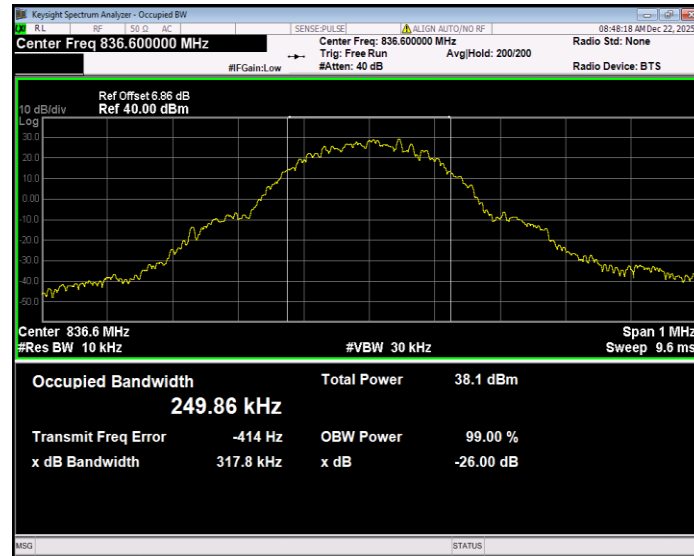
GSM850 Channel=128



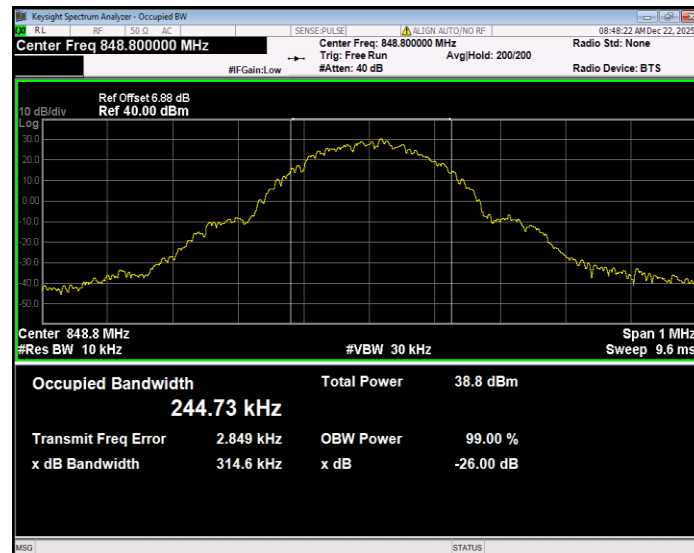
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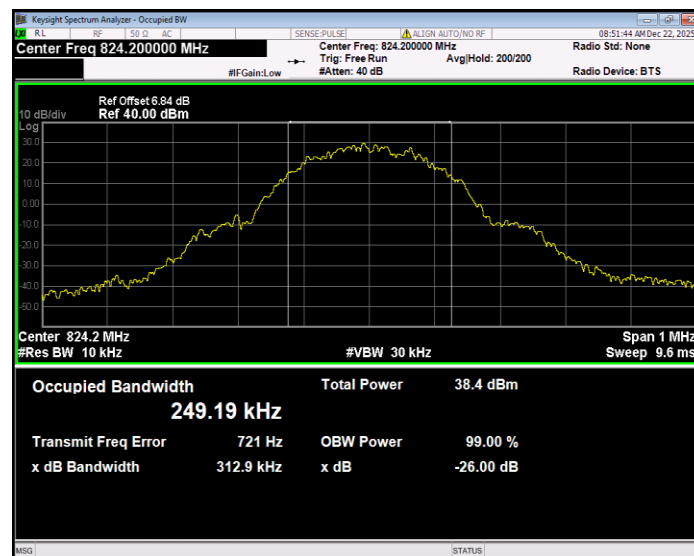
Report



GSM850 Channel=251



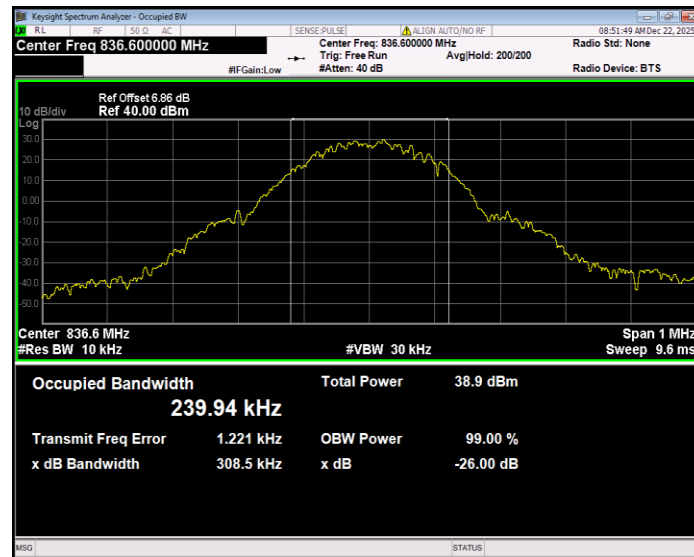
GPRS850 Channel=128



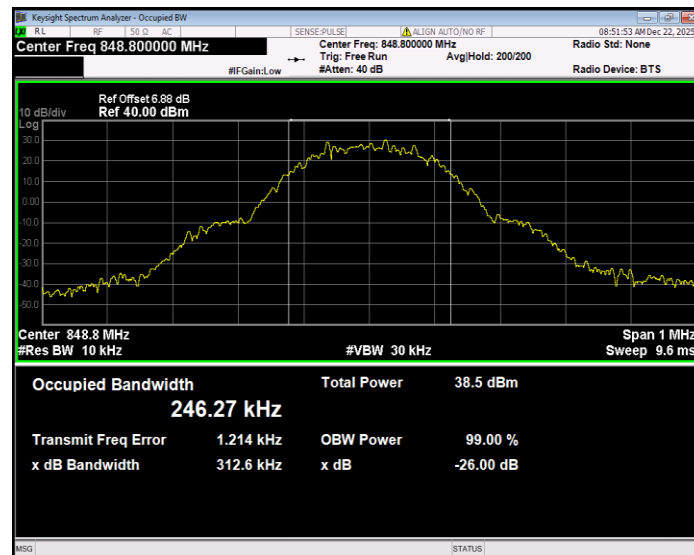


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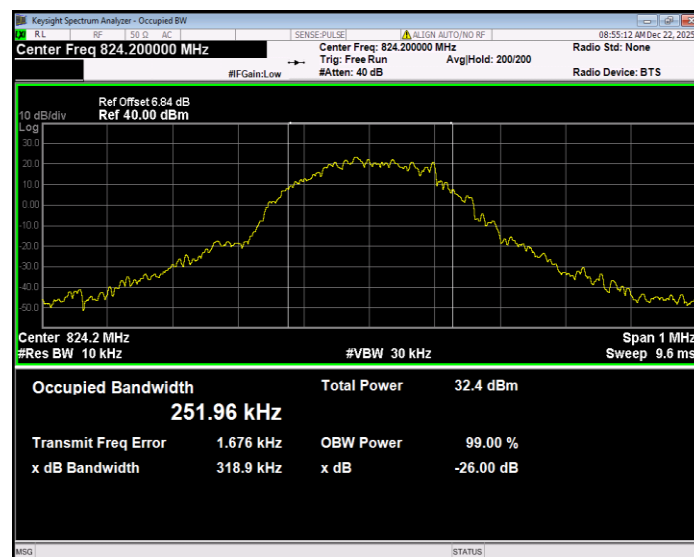
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GPRS850 Channel=251



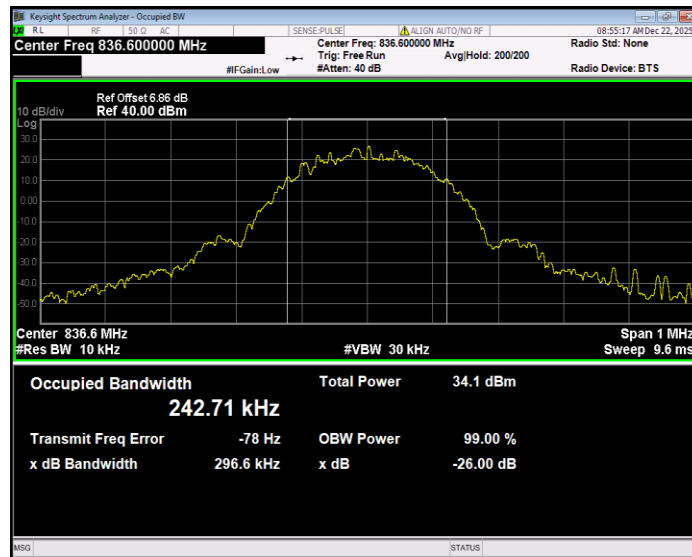
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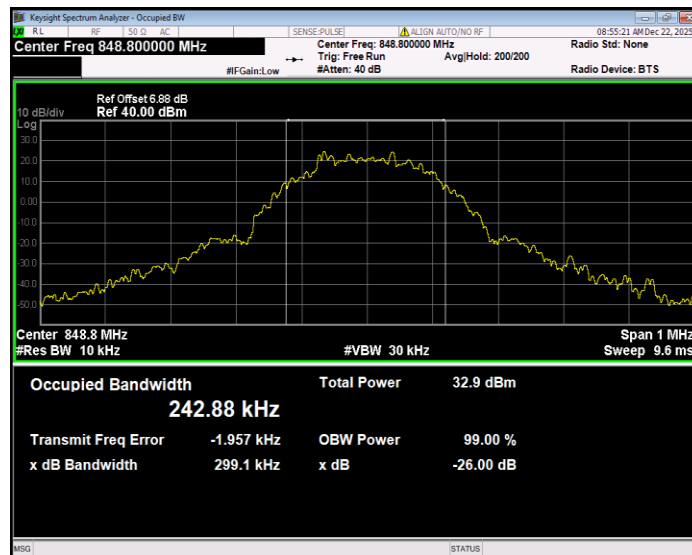


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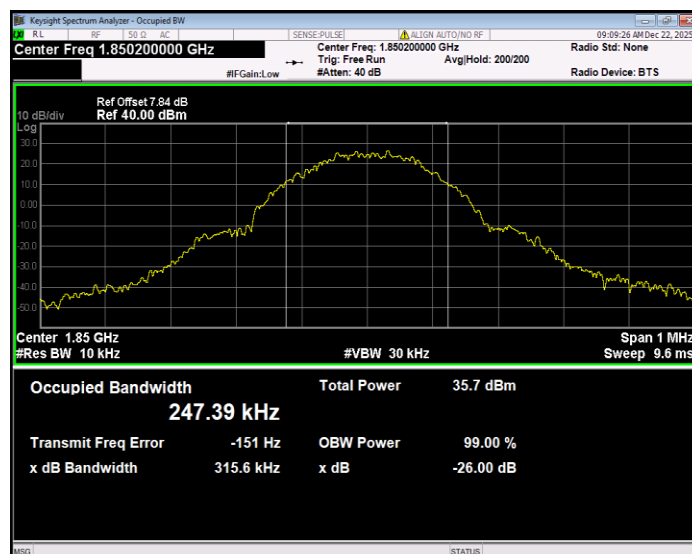
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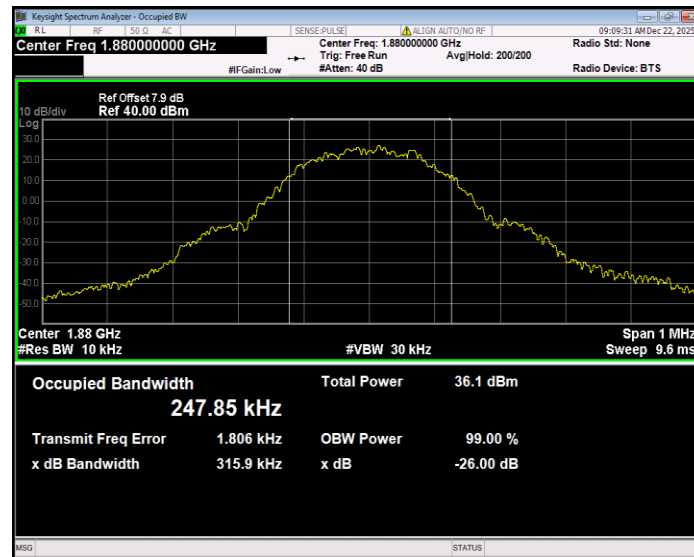
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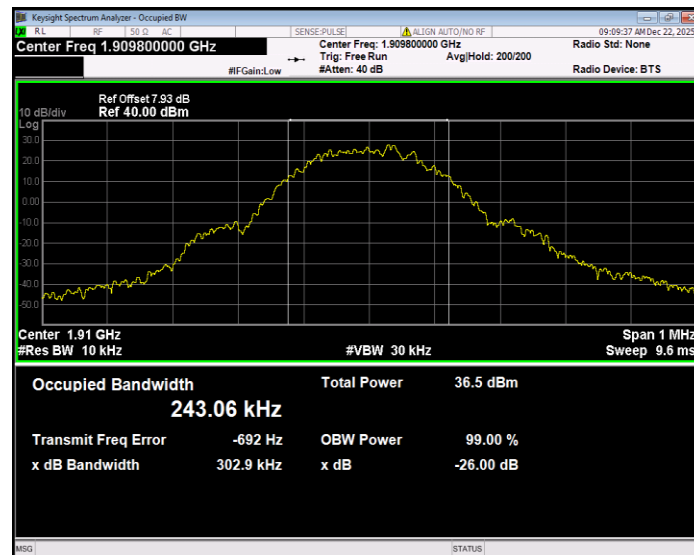


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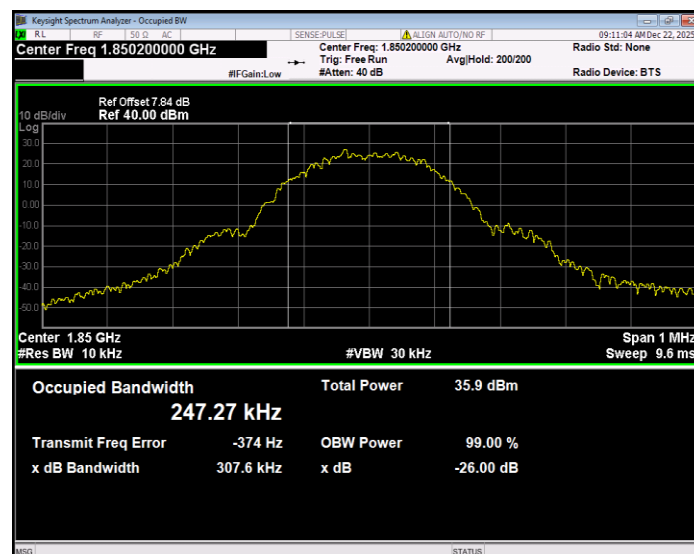
GSM1900 Channel=661



GSM1900 Channel=810



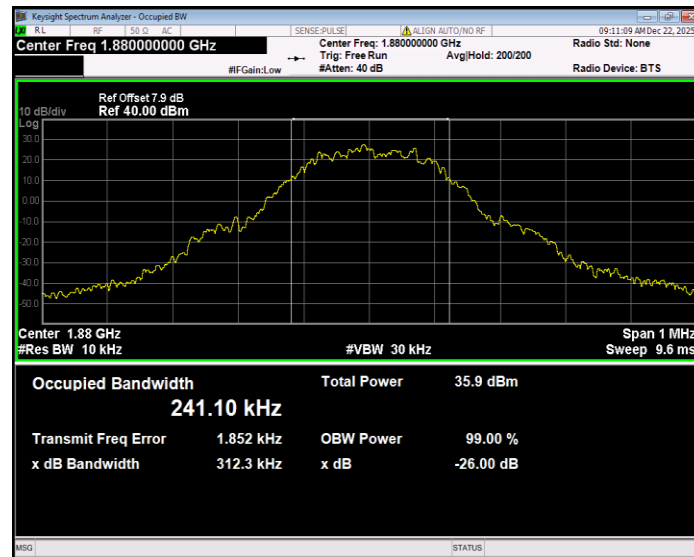
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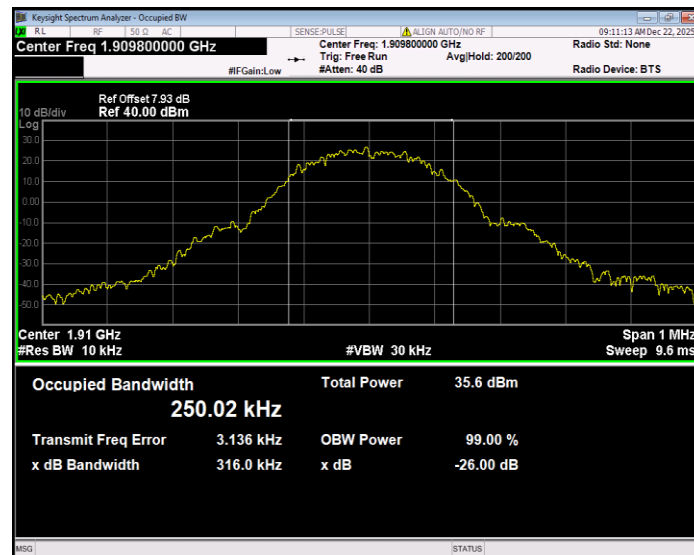


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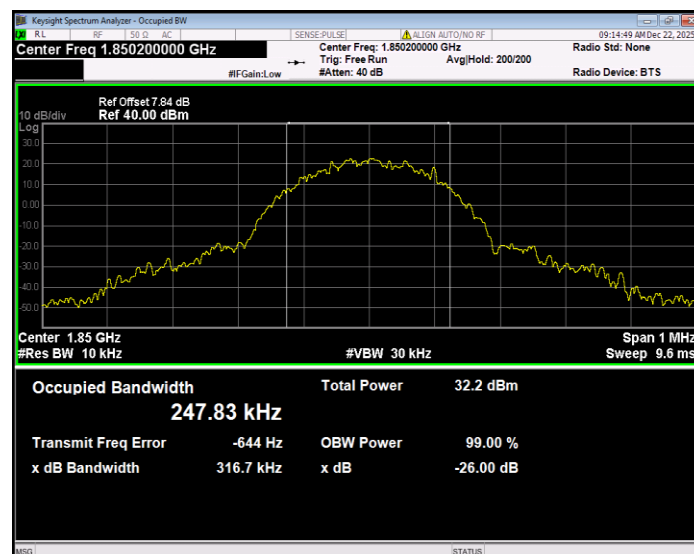
GPRS1900 Channel=661



GPRS1900 Channel=810



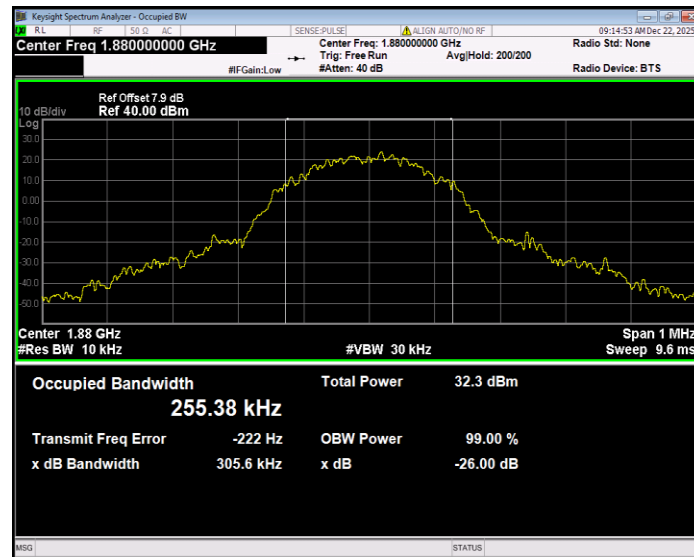
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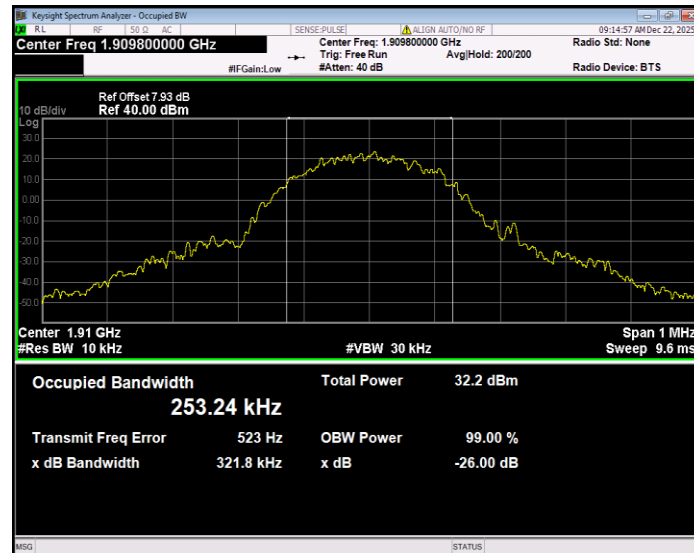


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



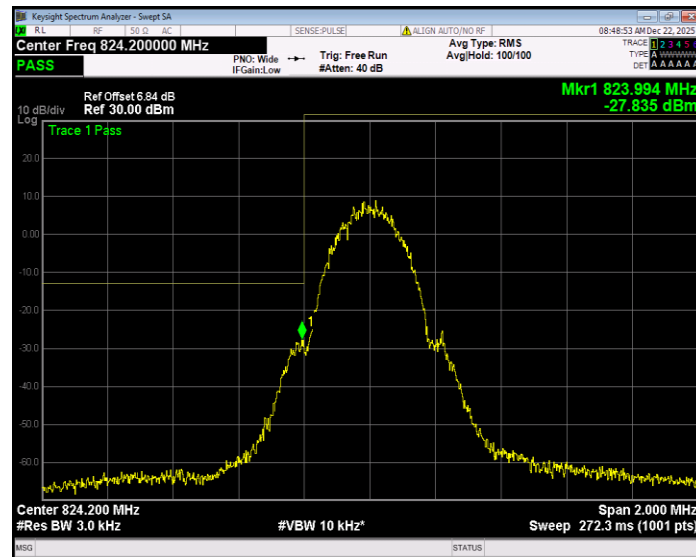


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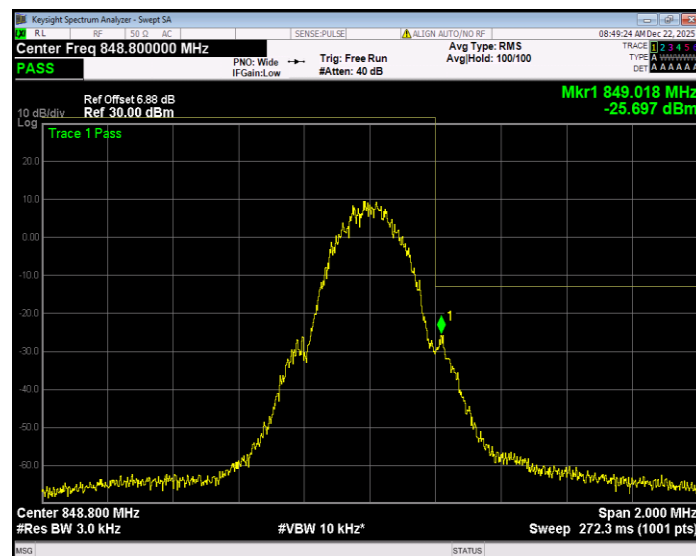
Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	823.99	-27.83	-13	PASS
GSM850	251	848.8	849.02	-25.69	-13	PASS
GPRS850	128	824.2	823.98	-26.70	-13	PASS
GPRS850	251	848.8	849.02	-26.94	-13	PASS
EGPRS850	128	824.2	823.96	-35.82	-13	PASS
EGPRS850	251	848.8	849.03	-35.49	-13	PASS
GSM1900	512	1850.2	1849.98	-29.10	-13	PASS
GSM1900	810	1909.8	1910.02	-28.81	-13	PASS
GPRS1900	512	1850.2	1849.98	-29.14	-13	PASS
GPRS1900	810	1909.8	1910.02	-29.58	-13	PASS
EGPRS1900	512	1850.2	1849.99	-37.45	-13	PASS
EGPRS1900	810	1909.8	1910.02	-38.79	-13	PASS

GSM850 Channel=128



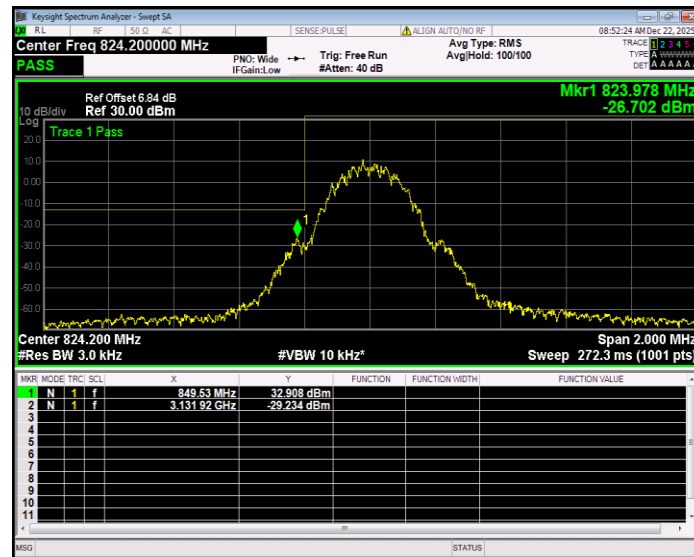
GSM850 Channel=251



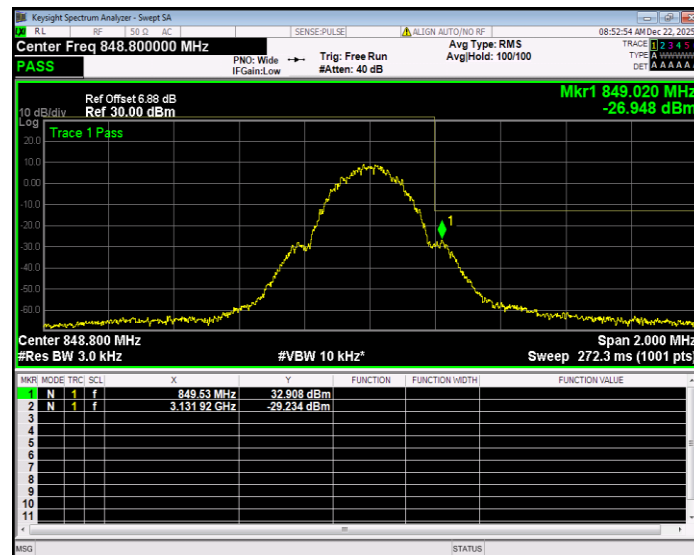


Report

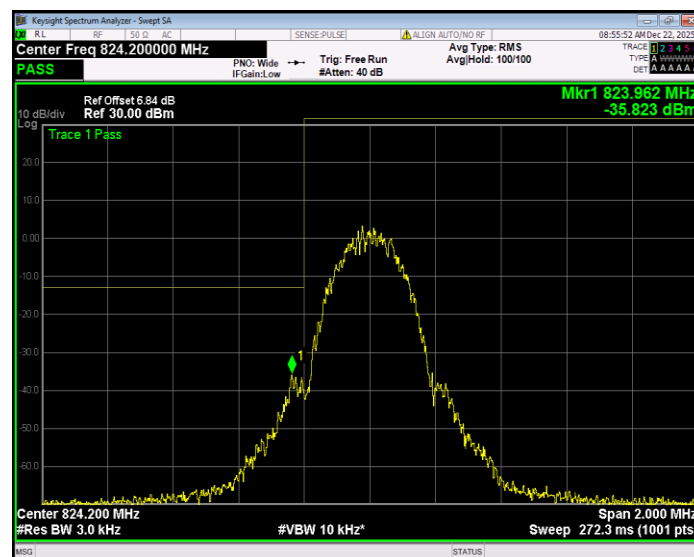
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GPRS850 Channel=251



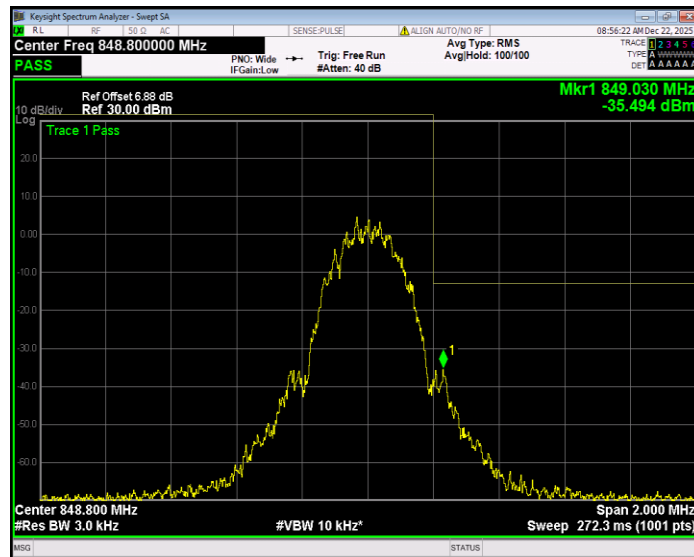
EGPRS850 Channel=128



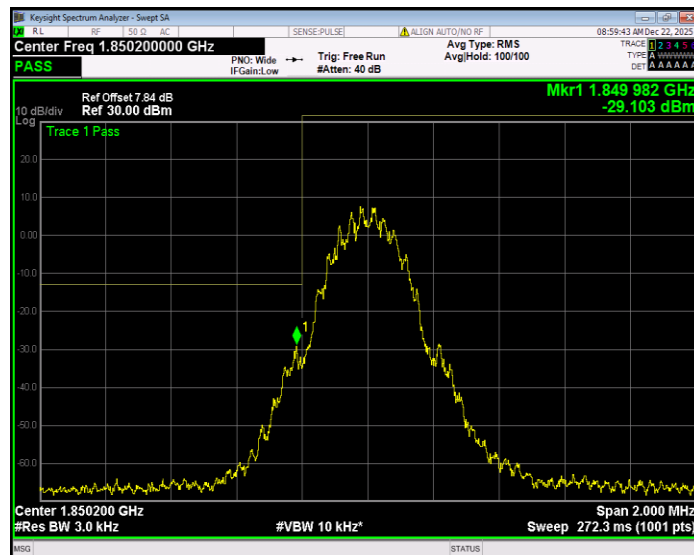


Report

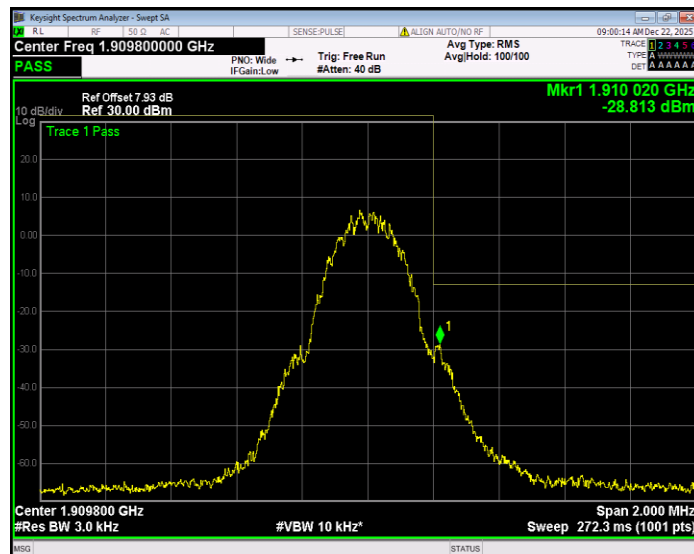
EGPRS850 Channel=251



GSM1900 Channel=512



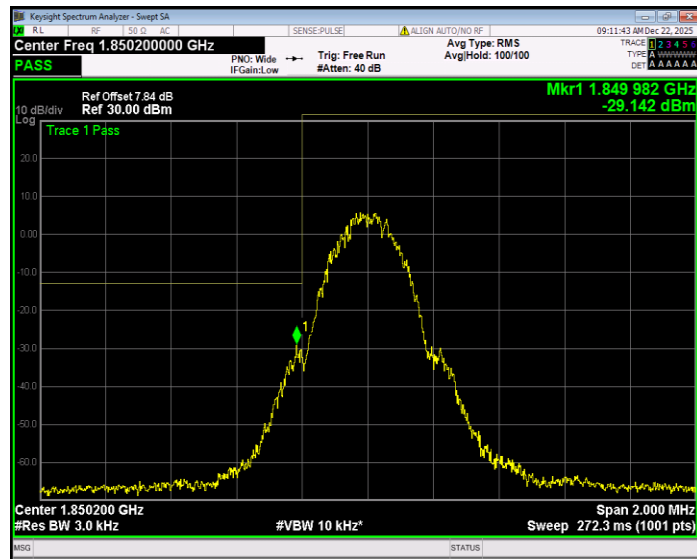
GSM1900 Channel=810



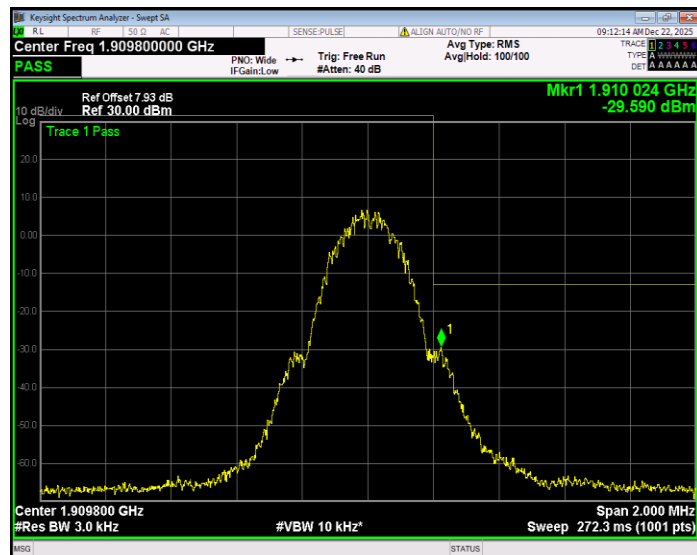


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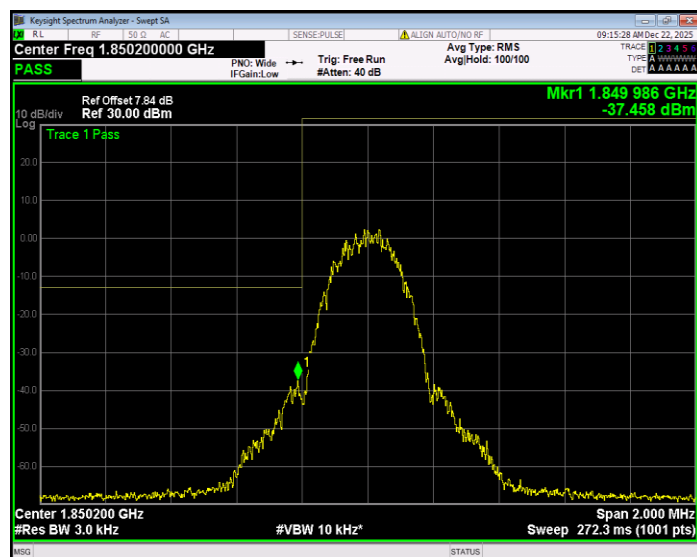
GPRS1900 Channel=512



GPRS1900 Channel=810



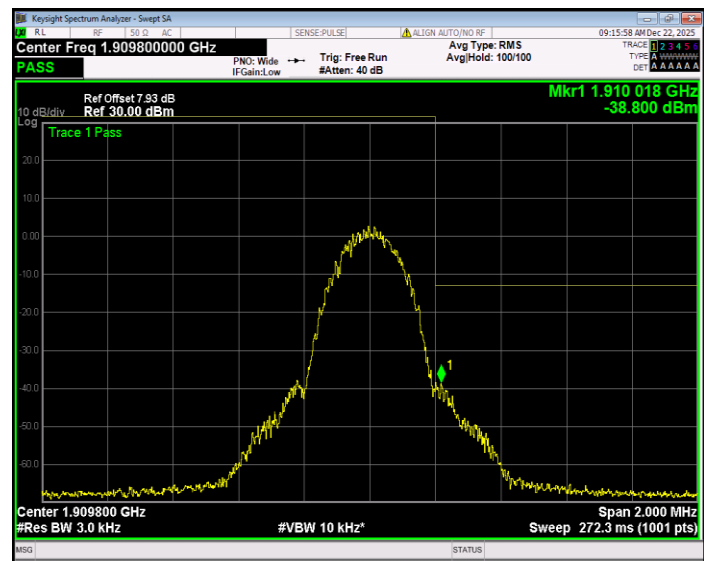
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=810



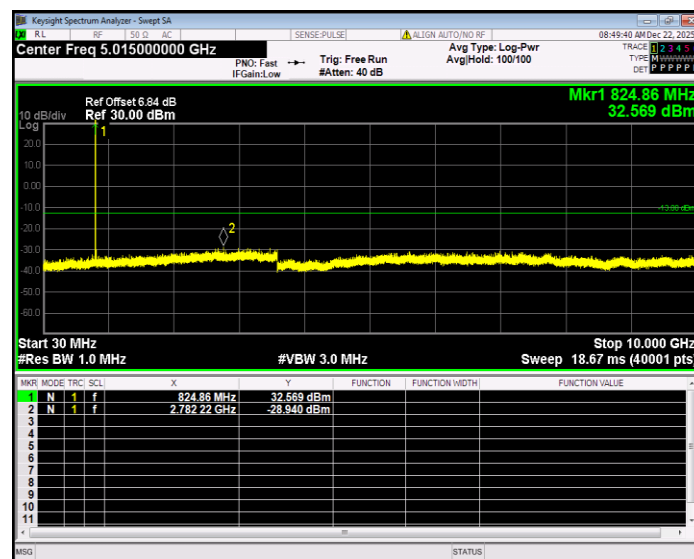


Report

Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	2782.22	-28.94	-13	PASS
GSM850	190	836.6	3152.35	-29.62	-13	PASS
GSM850	251	848.8	3131.92	-29.23	-13	PASS
GPRS850	128	824.2	3039.69	-29.36	-13	PASS
GPRS850	190	836.6	2625.19	-28.91	-13	PASS
GPRS850	251	848.8	2684.76	-29.19	-13	PASS
EGPRS850	128	824.2	2689.50	-29.06	-13	PASS
EGPRS850	190	836.6	2784.21	-28.95	-13	PASS
EGPRS850	251	848.8	3152.85	-29.14	-13	PASS
GSM1900	512	1850.2	19329.51	-24.09	-13	PASS
GSM1900	661	1880	19692.46	-22.99	-13	PASS
GSM1900	810	1909.8	19046.93	-23.95	-13	PASS
GPRS1900	512	1850.2	19734.40	-23.08	-13	PASS
GPRS1900	661	1880	18995.01	-23.93	-13	PASS
GPRS1900	810	1909.8	19966.55	-23.57	-13	PASS
EGPRS1900	512	1850.2	16153.78	-23.72	-13	PASS
EGPRS1900	661	1880	19712.43	-23.61	-13	PASS
EGPRS1900	810	1909.8	19000.50	-24.00	-13	PASS

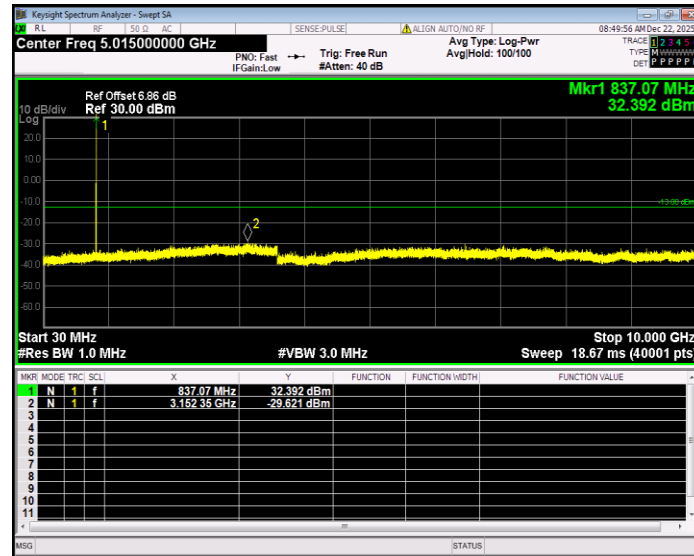
GSM850 Channel=128



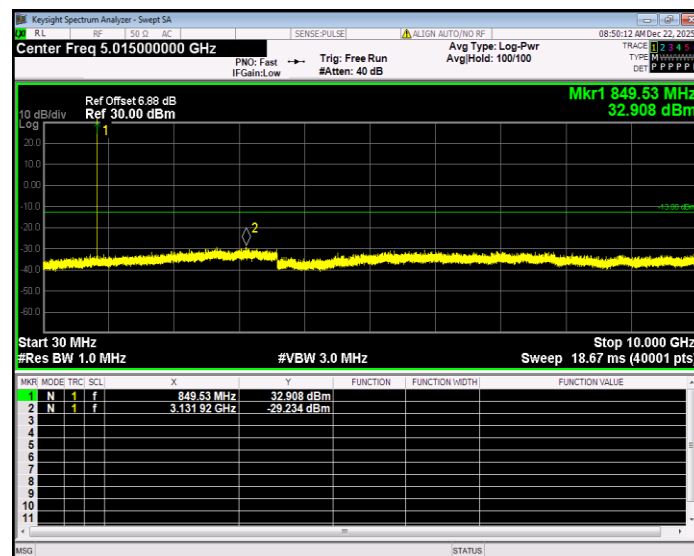
GSM850 Channel=190



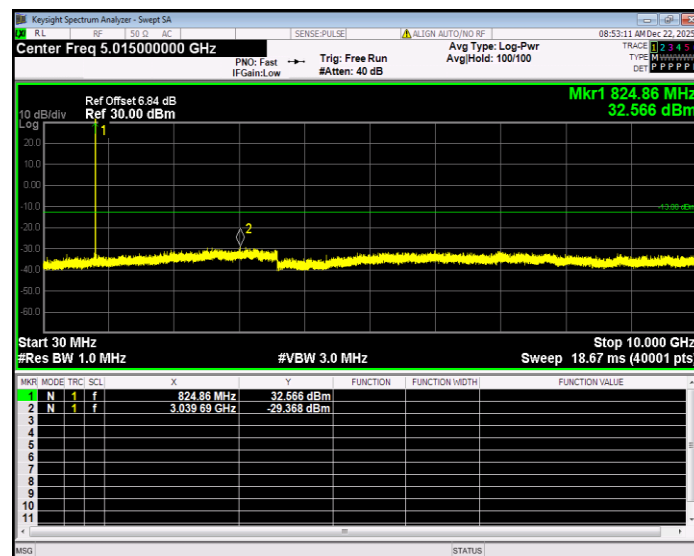
Report



GSM850 Channel=251



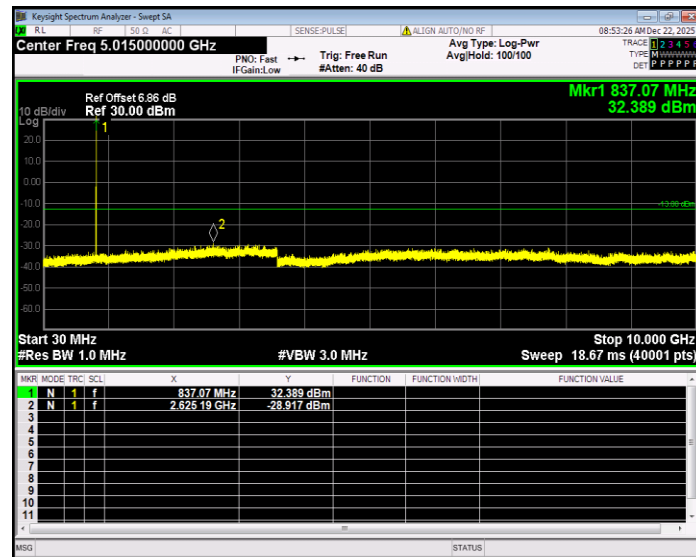
GPRS850 Channel=128



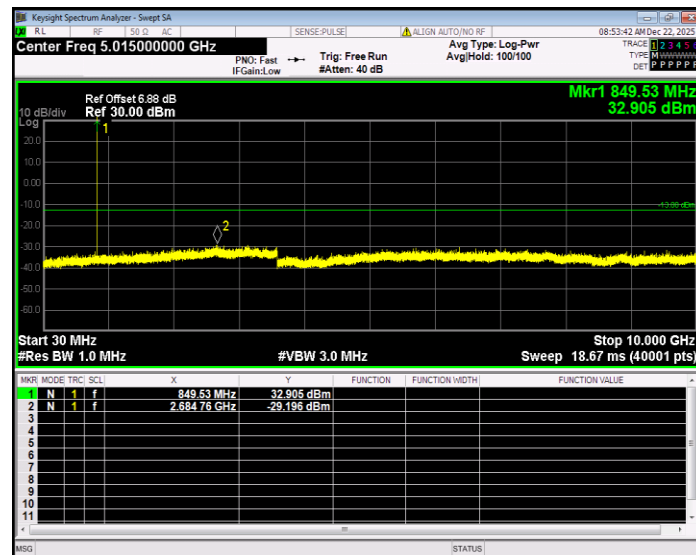


Report

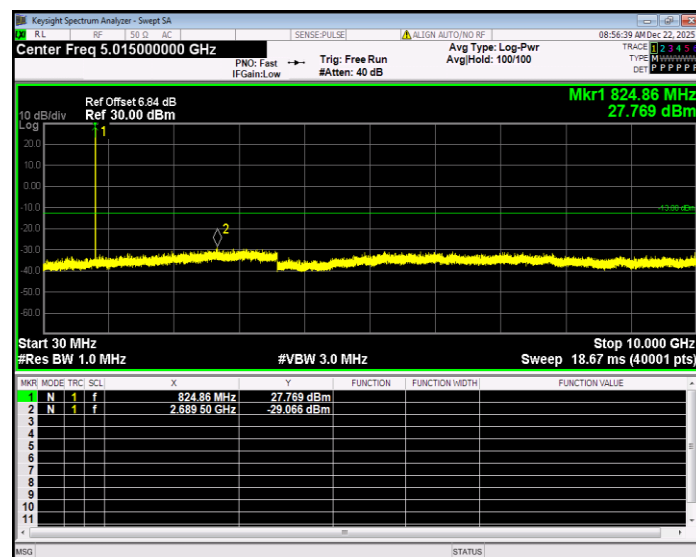
GPRS850 Channel=190



GPRS850 Channel=251



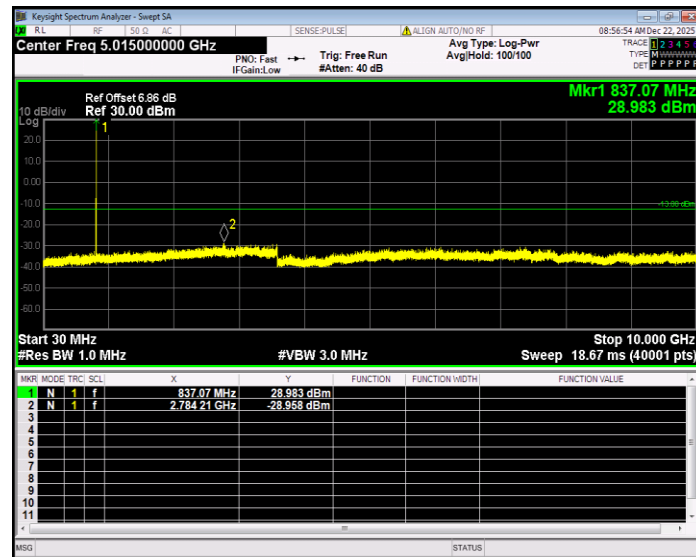
EGPRS850 Channel=128



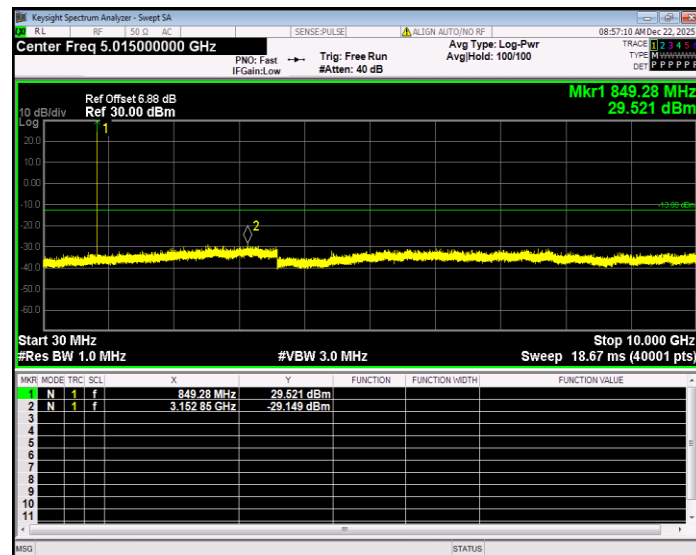


Report

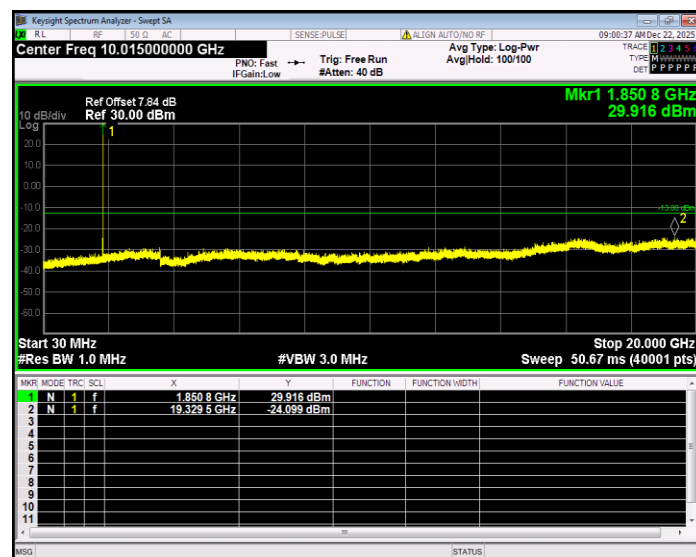
EGPRS850 Channel=190



EGPRS850 Channel=251



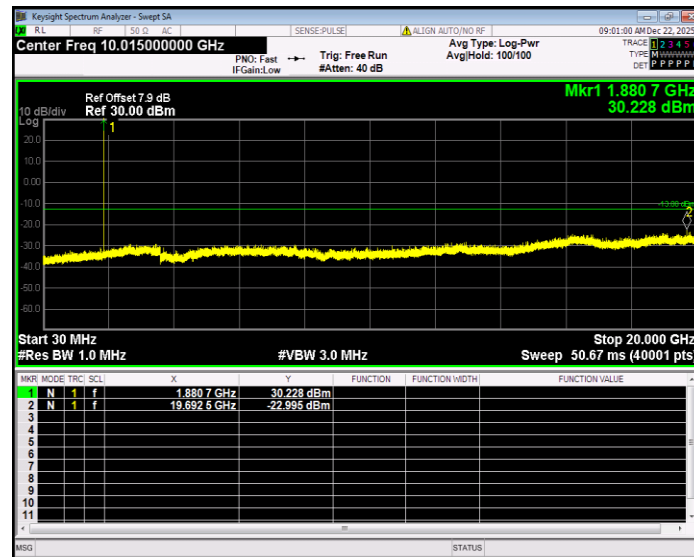
GSM1900 Channel=512



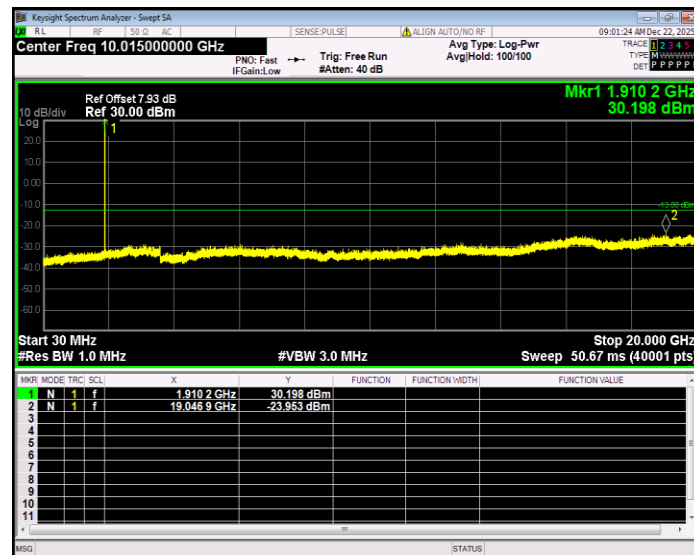


Report

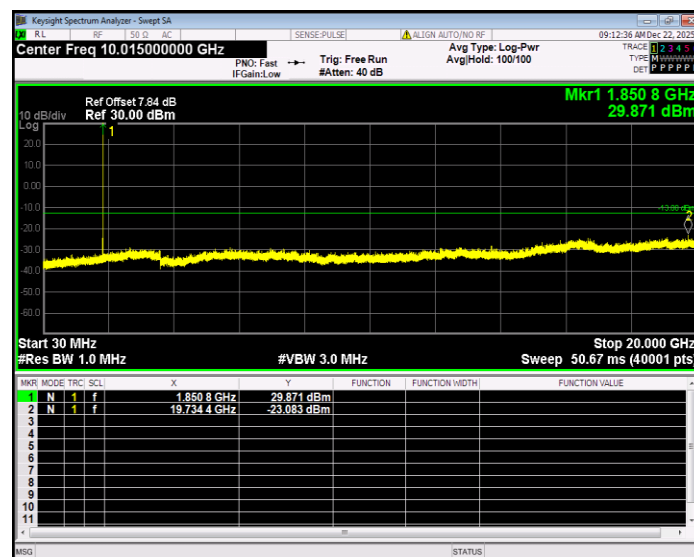
GSM1900 Channel=661



GSM1900 Channel=810



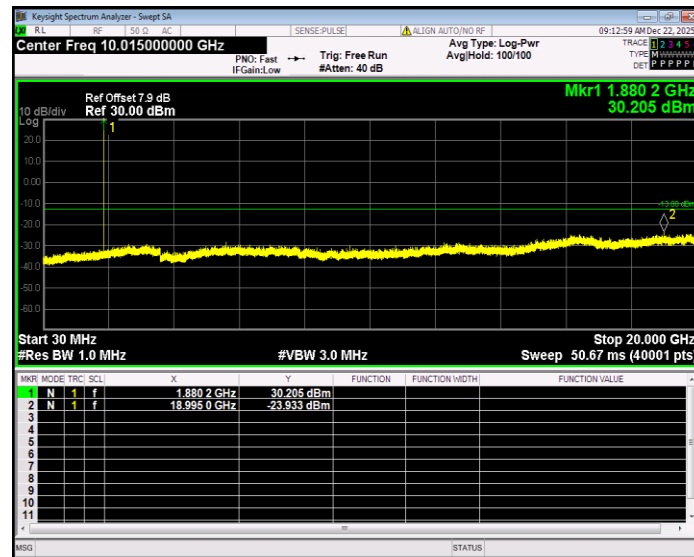
GPRS1900 Channel=512



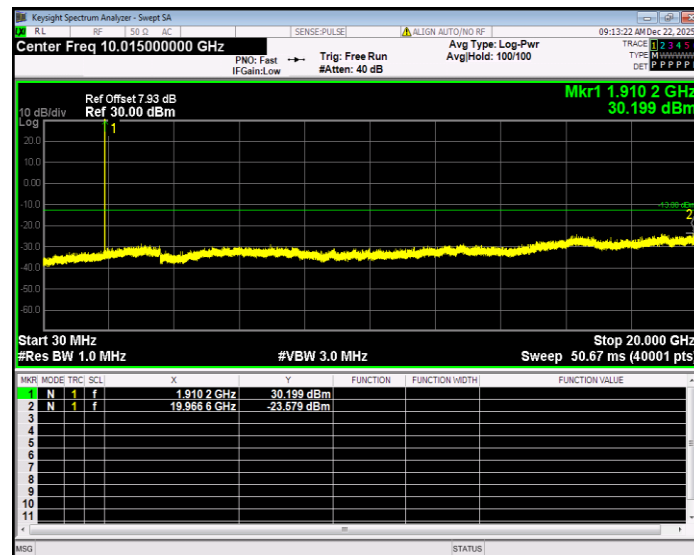


Report

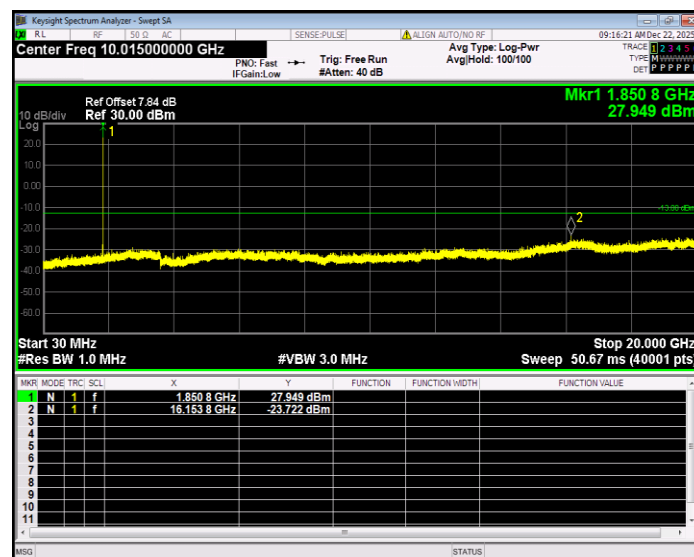
GPRS1900 Channel=661



GPRS1900 Channel=810



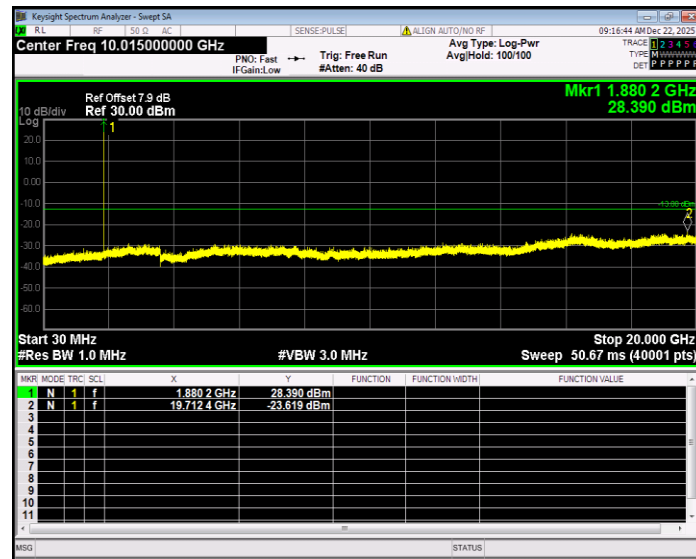
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810

