



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	33.01	-3.98	26.88	38.45	PASS
GSM850	190	836.6	33.58	-3.98	27.45	38.45	PASS
GSM850	251	848.8	33.44	-3.98	27.31	38.45	PASS
GPRS850 1 Slot	128	824.2	32.95	-3.98	26.82	38.45	PASS
GPRS850 1 Slot	190	836.6	33.56	-3.98	27.43	38.45	PASS
GPRS850 1 Slot	251	848.8	33.38	-3.98	27.25	38.45	PASS
GPRS850 2 Slot	128	824.2	32.22	-3.98	26.09	38.45	PASS
GPRS850 2 Slot	190	836.6	32.81	-3.98	26.68	38.45	PASS
GPRS850 2 Slot	251	848.8	32.67	-3.98	26.54	38.45	PASS
GPRS850 3 Slot	128	824.2	30.55	-3.98	24.42	38.45	PASS
GPRS850 3 Slot	190	836.6	31.11	-3.98	24.98	38.45	PASS
GPRS850 3 Slot	251	848.8	31.00	-3.98	24.87	38.45	PASS
GPRS850 4 Slot	128	824.2	29.47	-3.98	23.34	38.45	PASS
GPRS850 4 Slot	190	836.6	30.04	-3.98	23.91	38.45	PASS
GPRS850 4 Slot	251	848.8	29.92	-3.98	23.79	38.45	PASS
EGPRS850 1 Slot	128	824.2	28.67	-3.98	22.54	38.45	PASS
EGPRS850 1 Slot	190	836.6	28.34	-3.98	22.21	38.45	PASS
EGPRS850 1 Slot	251	848.8	28.82	-3.98	22.69	38.45	PASS
EGPRS850 2 Slot	128	824.2	27.13	-3.98	21.00	38.45	PASS
EGPRS850 2 Slot	190	836.6	27.56	-3.98	21.43	38.45	PASS
EGPRS850 2 Slot	251	848.8	27.34	-3.98	21.21	38.45	PASS
EGPRS850 3 Slot	128	824.2	25.04	-3.98	18.91	38.45	PASS
EGPRS850 3 Slot	190	836.6	25.31	-3.98	19.18	38.45	PASS
EGPRS850 3 Slot	251	848.8	25.67	-3.98	19.54	38.45	PASS
EGPRS850 4 Slot	128	824.2	23.95	-3.98	17.82	38.45	PASS
EGPRS850 4 Slot	190	836.6	24.21	-3.98	18.08	38.45	PASS
EGPRS850 4 Slot	251	848.8	24.14	-3.98	18.01	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	30.00	-2.03	27.97	33.01	PASS
GSM1900	661	1880	29.51	-2.03	27.48	33.01	PASS
GSM1900	810	1909.8	28.96	-2.03	26.93	33.01	PASS
GPRS1900 1 Slot	512	1850.2	30.05	-2.03	28.02	33.01	PASS
GPRS1900 1 Slot	661	1880	29.56	-2.03	27.53	33.01	PASS
GPRS1900 1 Slot	810	1909.8	29.03	-2.03	27.00	33.01	PASS
GPRS1900 2 Slot	512	1850.2	29.06	-2.03	27.03	33.01	PASS
GPRS1900 2 Slot	661	1880	28.54	-2.03	26.51	33.01	PASS
GPRS1900 2 Slot	810	1909.8	28.03	-2.03	26.00	33.01	PASS
GPRS1900 3 Slot	512	1850.2	27.25	-2.03	25.22	33.01	PASS
GPRS1900 3 Slot	661	1880	26.73	-2.03	24.70	33.01	PASS
GPRS1900 3 Slot	810	1909.8	26.24	-2.03	24.21	33.01	PASS
GPRS1900 4 Slot	512	1850.2	26.47	-2.03	24.44	33.01	PASS
GPRS1900 4 Slot	661	1880	25.94	-2.03	23.91	33.01	PASS
GPRS1900 4 Slot	810	1909.8	25.43	-2.03	23.40	33.01	PASS
EGPRS1900 1 Slot	512	1850.2	27.32	-2.03	25.29	33.01	PASS
EGPRS1900 1 Slot	661	1880	26.88	-2.03	24.85	33.01	PASS
EGPRS1900 1 Slot	810	1909.8	26.30	-2.03	24.27	33.01	PASS
EGPRS1900 2 Slot	512	1850.2	26.50	-2.03	24.47	33.01	PASS
EGPRS1900 2 Slot	661	1880	25.40	-2.03	23.37	33.01	PASS
EGPRS1900 2 Slot	810	1909.8	25.02	-2.03	22.99	33.01	PASS
EGPRS1900 3 Slot	512	1850.2	23.75	-2.03	21.72	33.01	PASS
EGPRS1900 3 Slot	661	1880	23.53	-2.03	21.50	33.01	PASS
EGPRS1900 3 Slot	810	1909.8	23.16	-2.03	21.13	33.01	PASS
EGPRS1900 4 Slot	512	1850.2	22.51	-2.03	20.48	33.01	PASS
EGPRS1900 4 Slot	661	1880	22.02	-2.03	19.99	33.01	PASS
EGPRS1900 4 Slot	810	1909.8	21.75	-2.03	19.72	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	-9.06	-0.011	2.5ppm	PASS
40		-9.46	-0.011		
30		9.05	0.011		
20		-20.11	-0.024		
10		8.93	0.011		
0		-9.43	-0.011		
-10		9.21	0.011		
-20		-9.39	-0.011		
-30		9.14	0.011		
20	Maximum Voltage	9.44	0.011		
20	BEP	-9.36	-0.011		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	13.87	0.017	2.5ppm	PASS
40		13.81	0.017		
30		-13.90	-0.017		
20		-29.61	-0.035		
10		-14.02	-0.017		
0		-14.12	-0.017		
-10		-13.89	-0.017		
-20		13.89	0.017		
-30		14.03	0.017		
20	Maximum Voltage	-13.80	-0.016		
20	BEP	-14.20	-0.017		



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EGPRS 850 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	2.66	0.003	2.5ppm	PASS
40		-3.09	-0.004		
30		-2.61	-0.003		
20		-7.46	-0.009		
10		-2.88	-0.003		
0		-2.87	-0.003		
-10		2.90	0.003		
-20		-2.71	-0.003		
-30		3.15	0.004		
20	Maximum Voltage	-2.99	-0.004		
20	BEP	-2.65	-0.003		

GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-7.16	-0.004	Within Authorized Band	PASS
40		7.41	0.004		
30		-7.57	-0.004		
20		-16.30	-0.009		
10		-7.38	-0.004		
0		-7.16	-0.004		
-10		7.50	0.004		
-20		-7.40	-0.004		
-30		-7.40	-0.004		
20	Maximum Voltage	-7.58	-0.004		
20	BEP	-7.33	-0.004		



Report

GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-13.90	-0.007	Within Authorized Band	PASS
40		-13.73	-0.007		
30		13.70	0.007		
20		-29.19	-0.016		
10		-13.67	-0.007		
0		-14.06	-0.007		
-10		13.68	0.007		
-20		13.96	0.007		
-30		13.52	0.007		
20	Maximum Voltage	-13.52	-0.007		
20	BEP	13.62	0.007		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-11.41	-0.006	Within Authorized Band	PASS
40		11.14	0.006		
30		11.10	0.006		
20		-24.15	-0.013		
10		-11.24	-0.006		
0		11.37	0.006		
-10		10.98	0.006		
-20		-11.54	-0.006		
-30		-11.02	-0.006		
20	Maximum Voltage	11.25	0.006		
20	BEP	-11.25	-0.006		

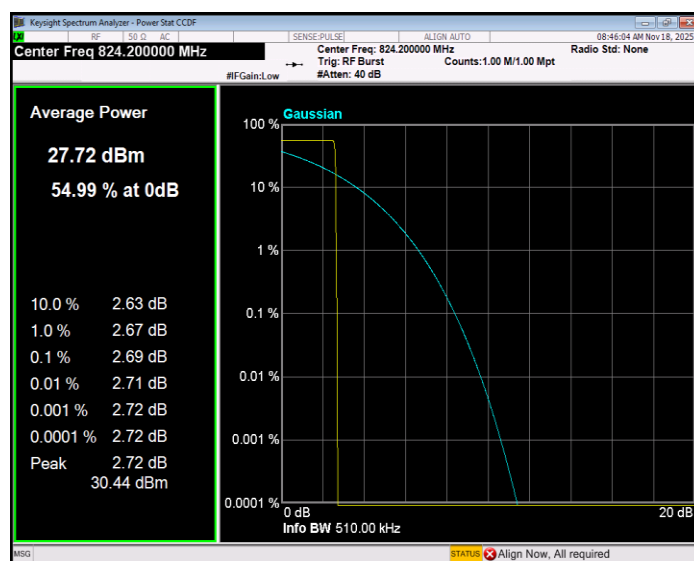


Report

Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM850	128	824.2	2.69	13	PASS
GSM850	190	836.6	2.68	13	PASS
GSM850	251	848.8	2.69	13	PASS
GPRS850	128	824.2	2.73	13	PASS
GPRS850	190	836.6	2.71	13	PASS
GPRS850	251	848.8	2.73	13	PASS
EGPRS850	128	824.2	6.99	13	PASS
EGPRS850	190	836.6	7.66	13	PASS
EGPRS850	251	848.8	6.97	13	PASS
GSM1900	512	1850.2	2.67	13	PASS
GSM1900	661	1880	2.68	13	PASS
GSM1900	810	1909.8	2.69	13	PASS
GPRS1900	512	1850.2	2.70	13	PASS
GPRS1900	661	1880	2.71	13	PASS
GPRS1900	810	1909.8	2.72	13	PASS
EGPRS1900	512	1850.2	5.89	13	PASS
EGPRS1900	661	1880	5.96	13	PASS
EGPRS1900	810	1909.8	6.01	13	PASS

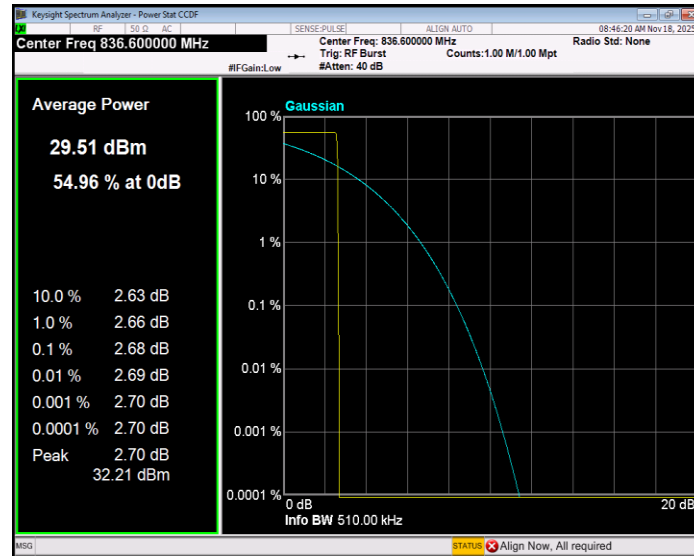
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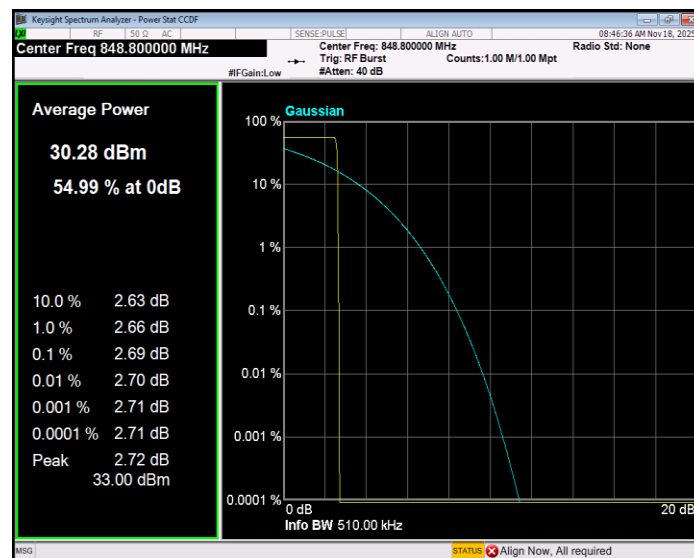
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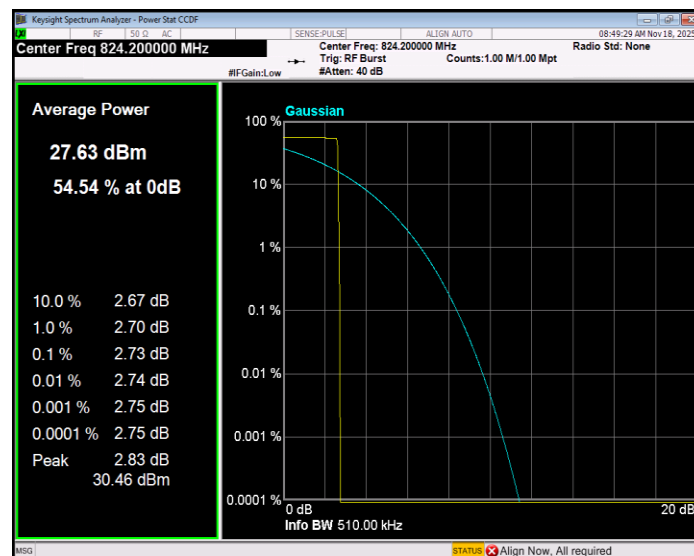
Report



GSM850 Channel=251



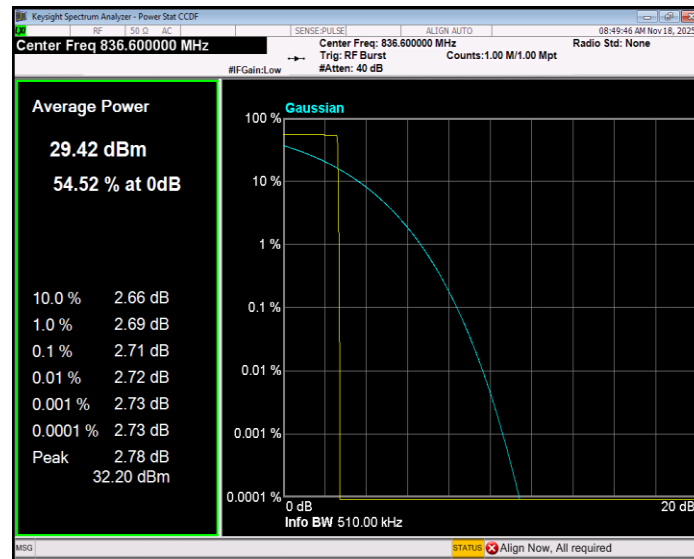
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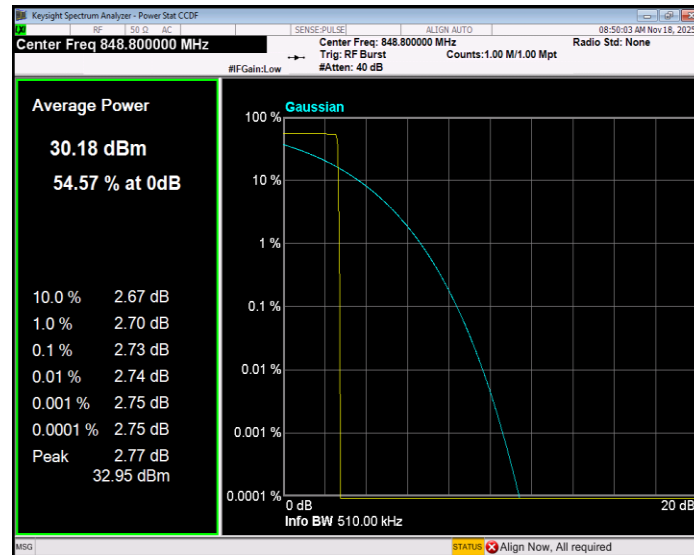


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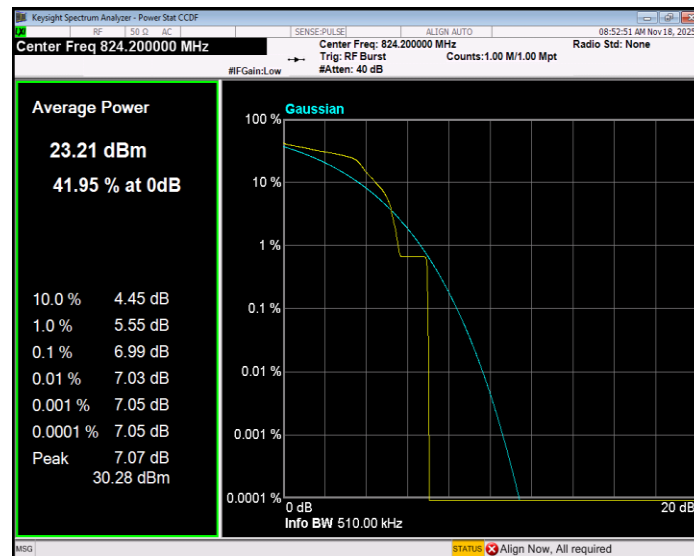
GPRS850 Channel=190



GPRS850 Channel=251



EGPRS850 Channel=128





Report

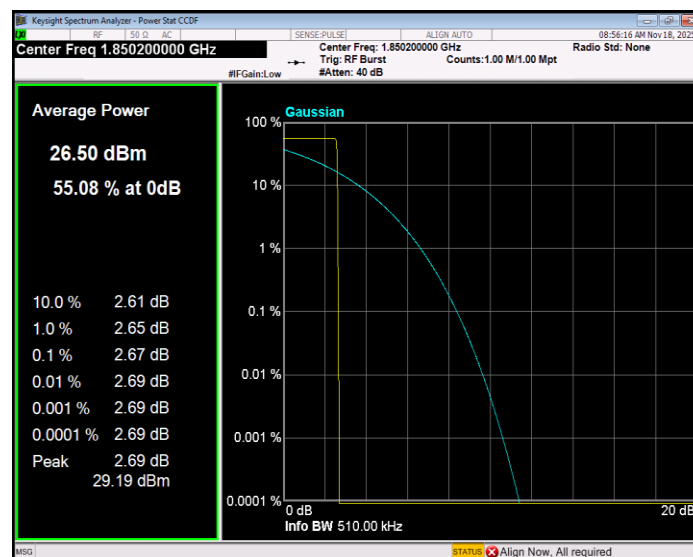
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EGPRS850 Channel=251



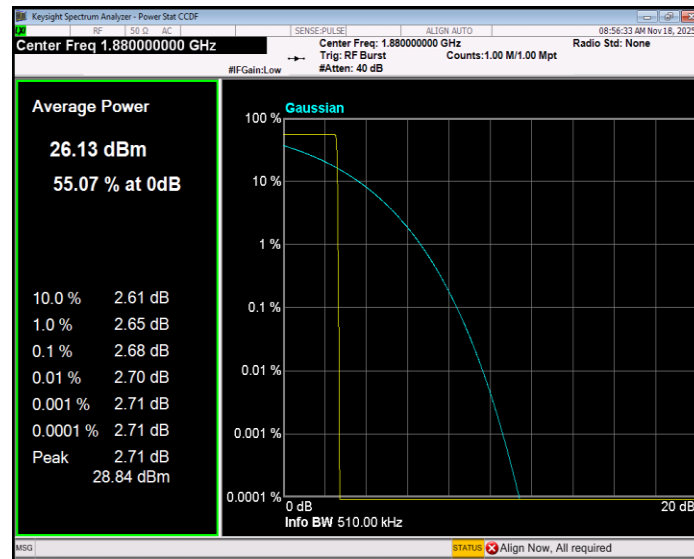
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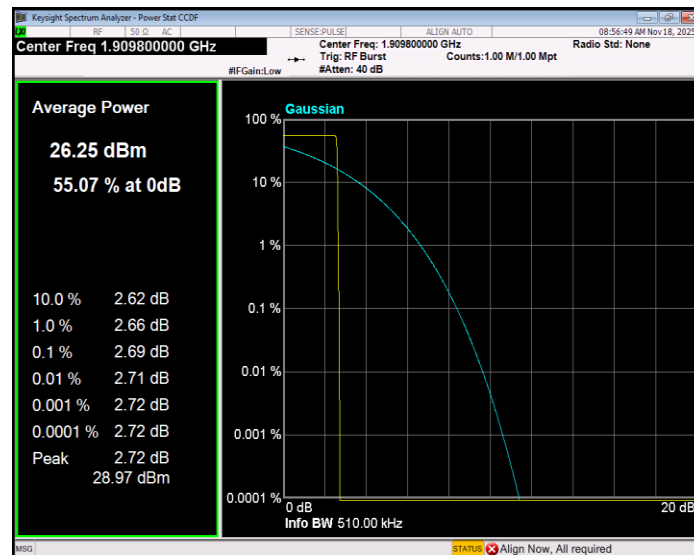


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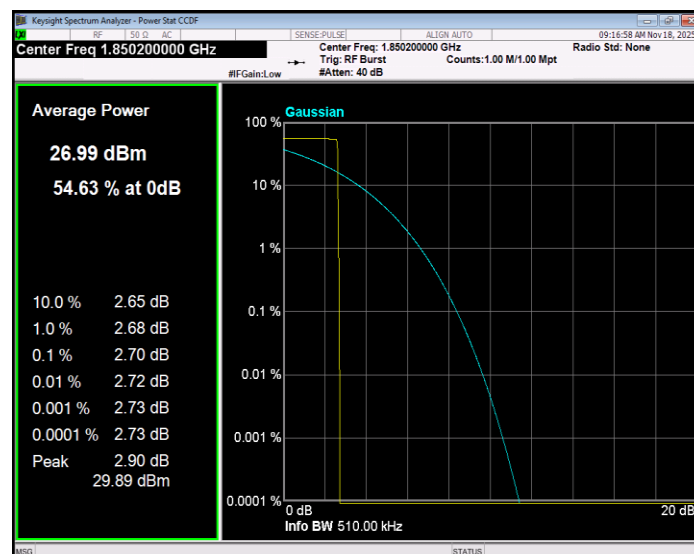
GSM1900 Channel=661



GSM1900 Channel=810



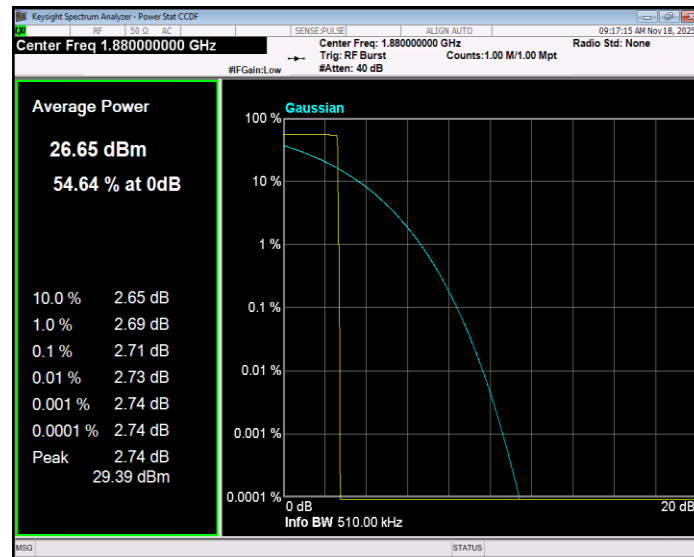
GPRS1900 Channel=512



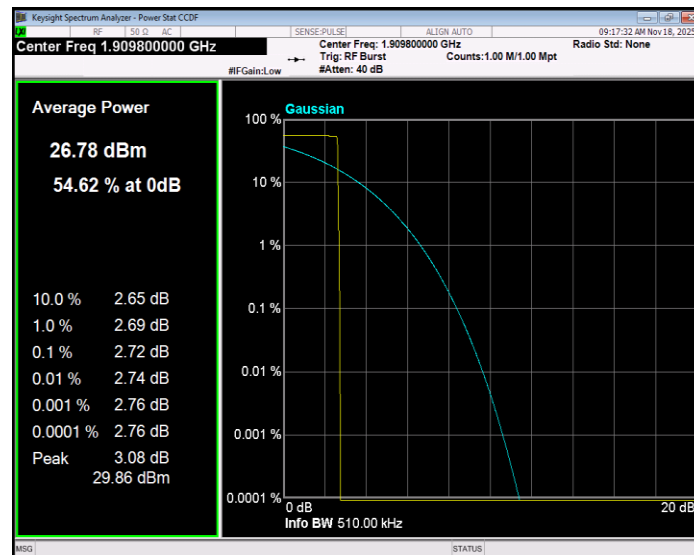


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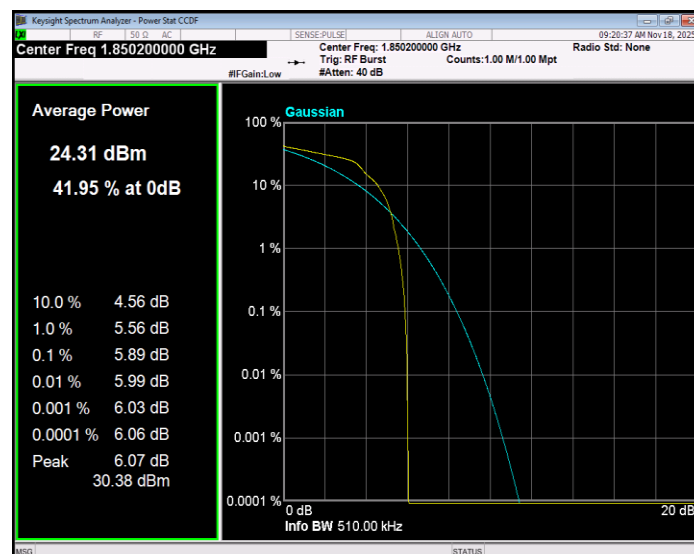
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GPRS1900 Channel=810



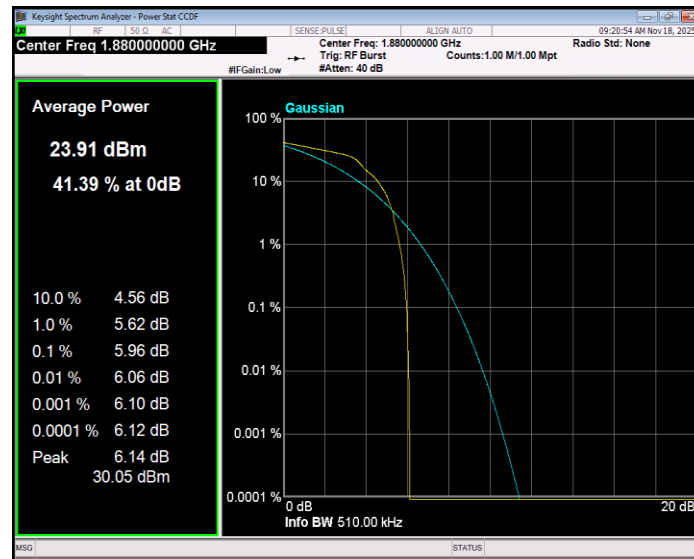
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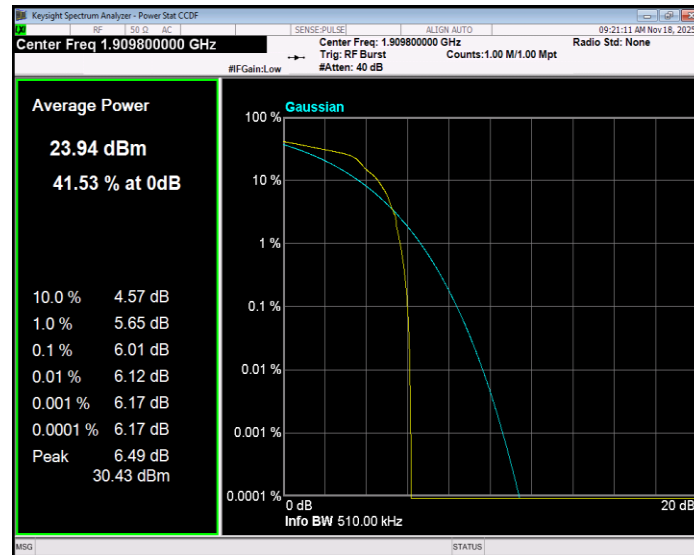


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EGPRS1900 Channel=661



EGPRS1900 Channel=810



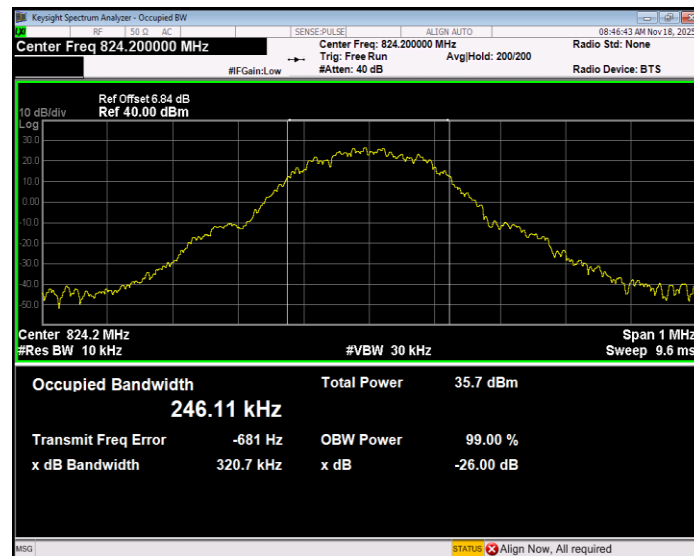


Report

Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	246.110	320.655	PASS
GSM850	190	836.6	240.671	305.894	PASS
GSM850	251	848.8	251.221	318.718	PASS
GPRS850	128	824.2	242.553	312.279	PASS
GPRS850	190	836.6	244.120	319.393	PASS
GPRS850	251	848.8	247.752	311.962	PASS
EGPRS850	128	824.2	247.583	308.988	PASS
EGPRS850	190	836.6	244.928	308.281	PASS
EGPRS850	251	848.8	251.921	321.784	PASS
GSM1900	512	1850.2	249.619	322.625	PASS
GSM1900	661	1880	240.574	313.898	PASS
GSM1900	810	1909.8	247.879	317.043	PASS
GPRS1900	512	1850.2	240.192	315.240	PASS
GPRS1900	661	1880	244.042	311.473	PASS
GPRS1900	810	1909.8	251.056	320.326	PASS
EGPRS1900	512	1850.2	238.627	307.997	PASS
EGPRS1900	661	1880	241.743	308.683	PASS
EGPRS1900	810	1909.8	250.220	319.774	PASS

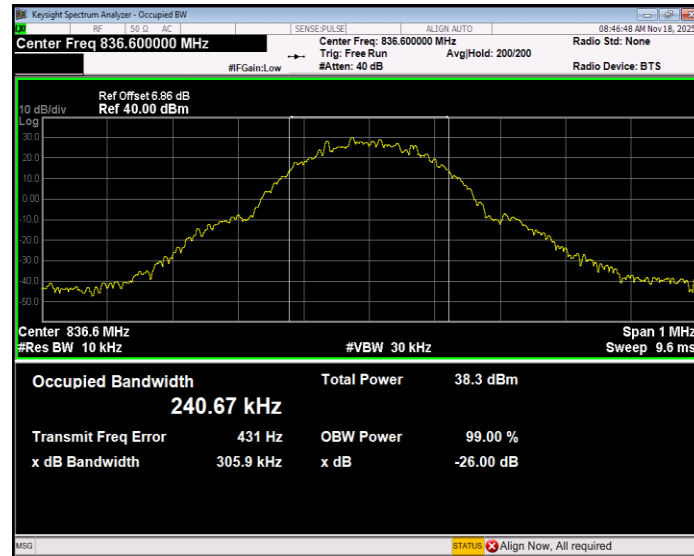
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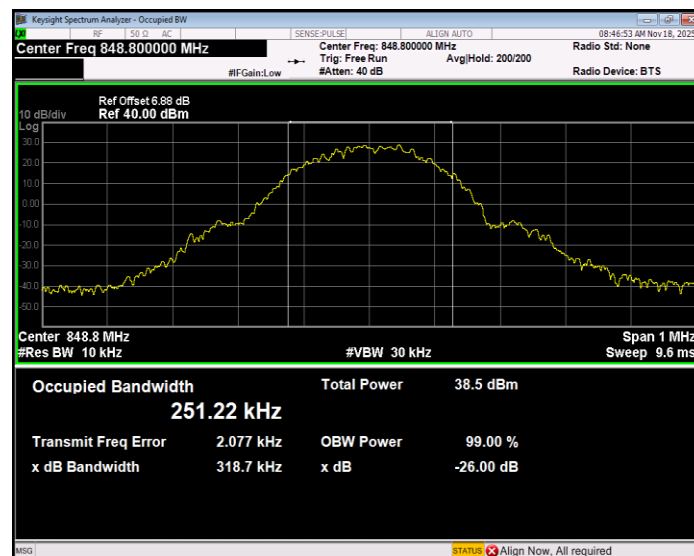
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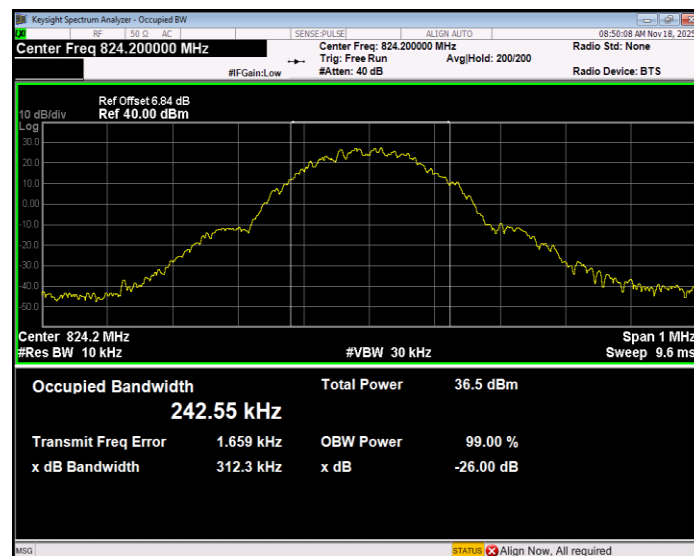
Report



GSM850 Channel=251



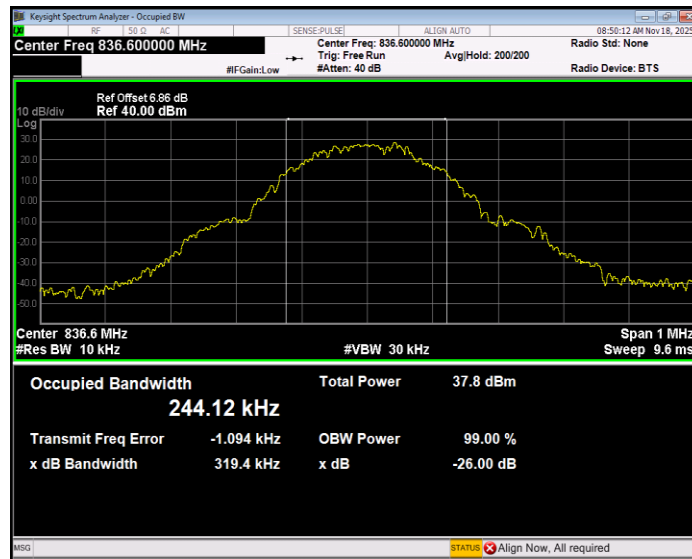
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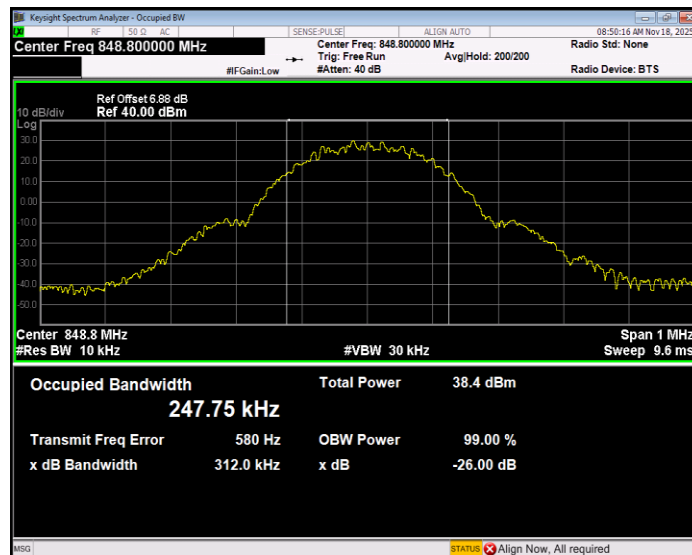


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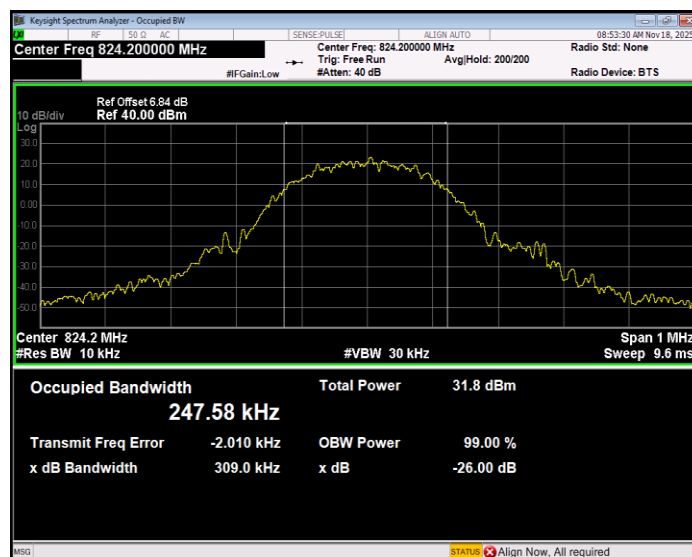
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GPRS850 Channel=251



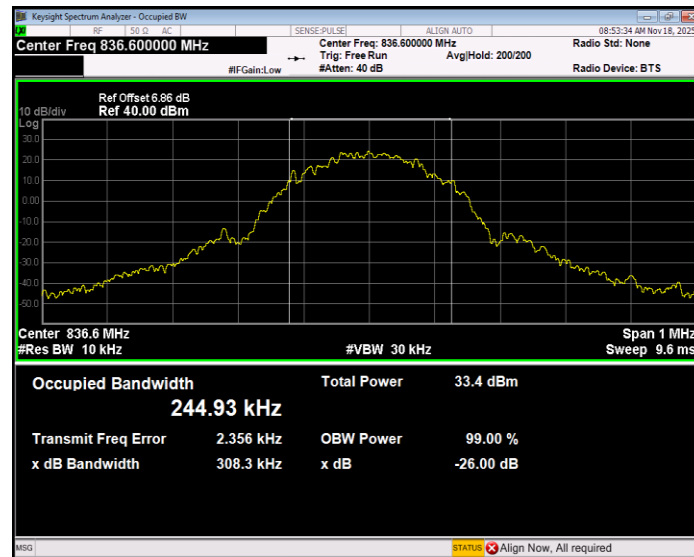
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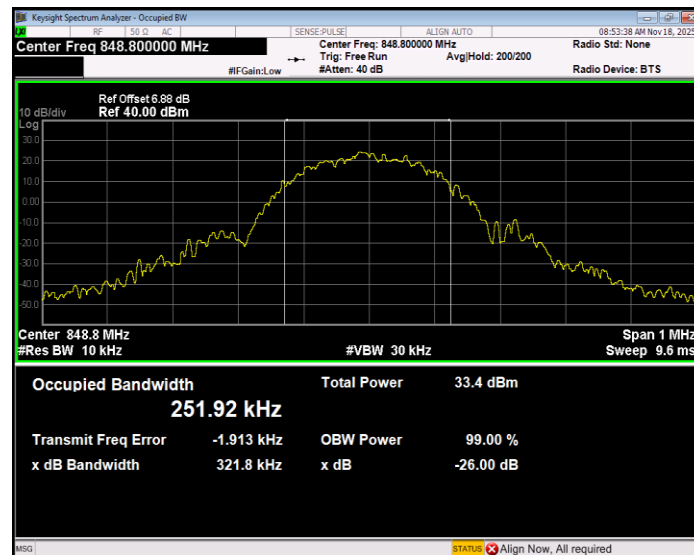


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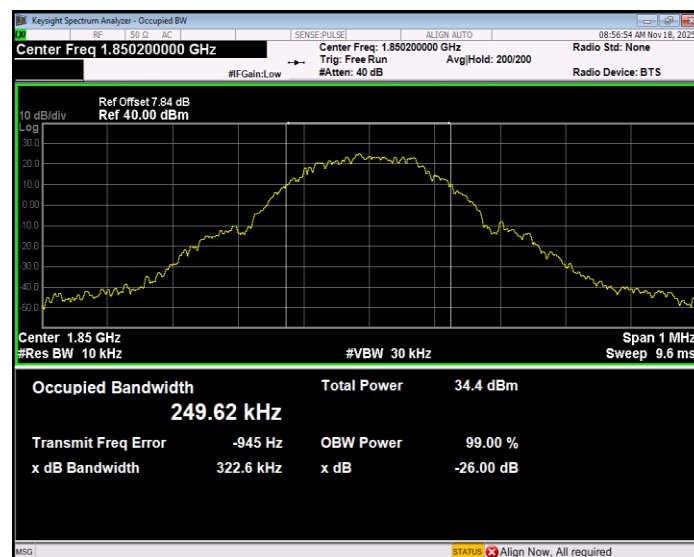
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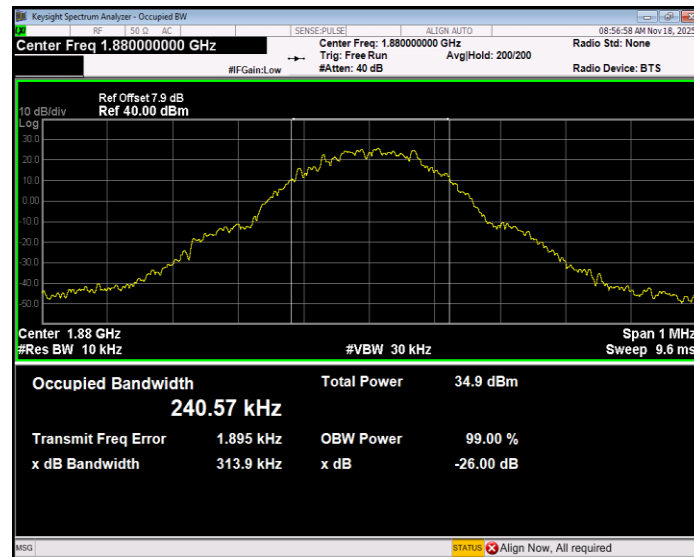
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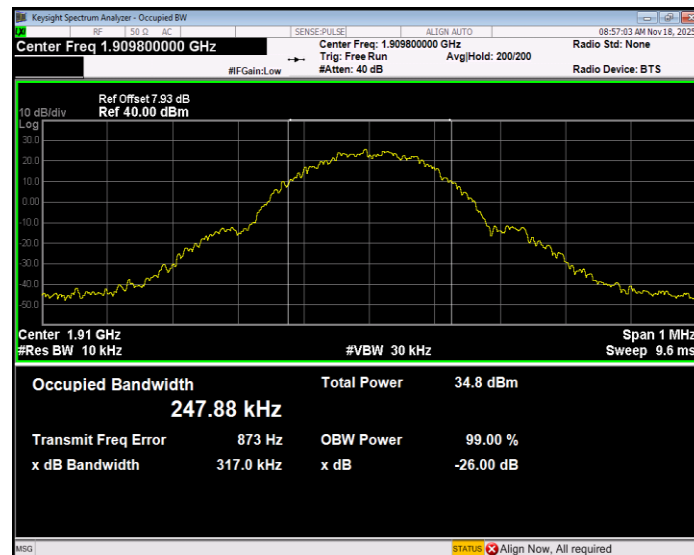


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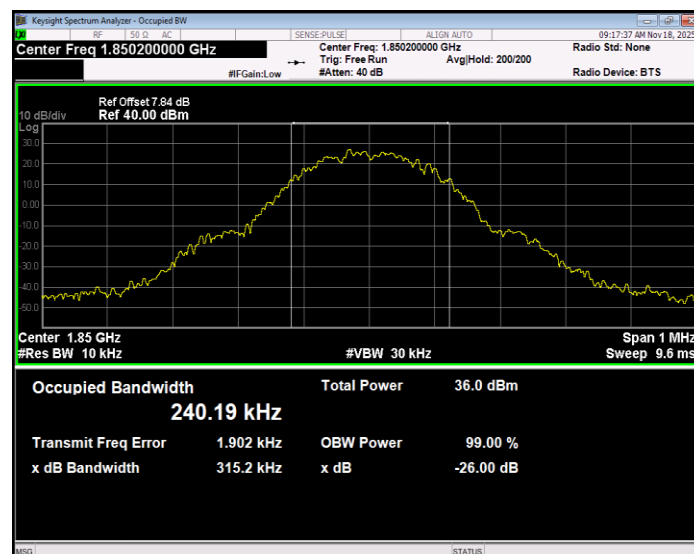
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GSM1900 Channel=810



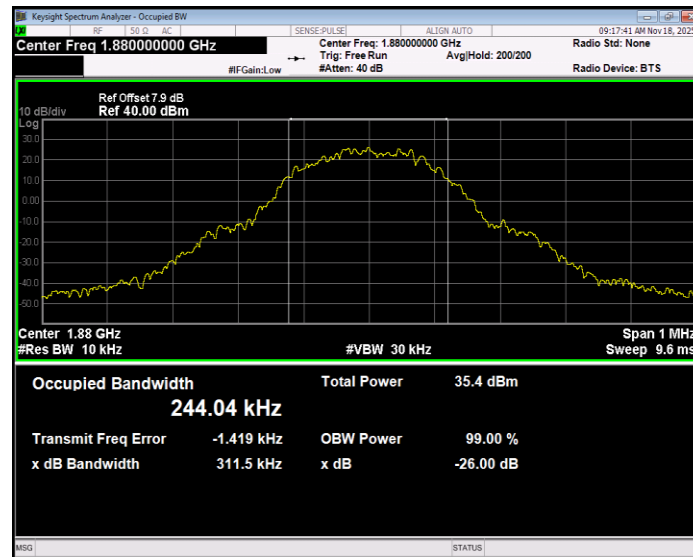
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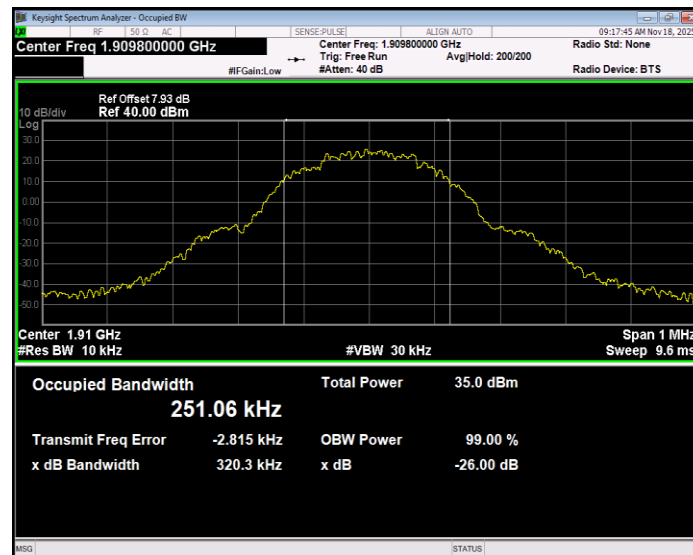


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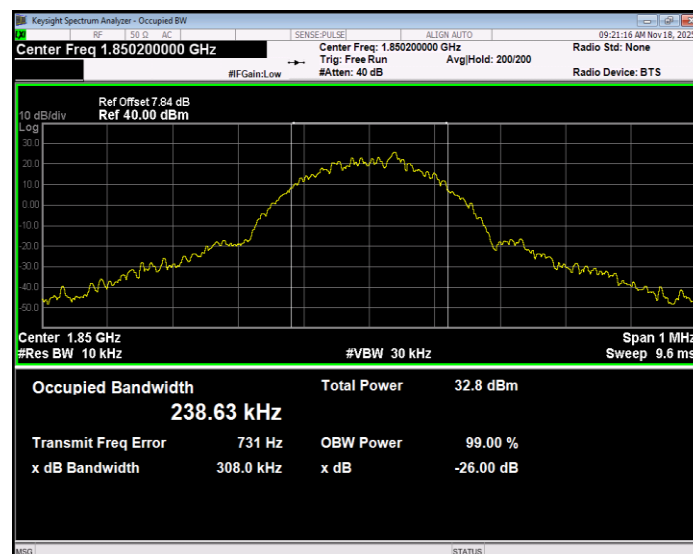
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GPRS1900 Channel=810



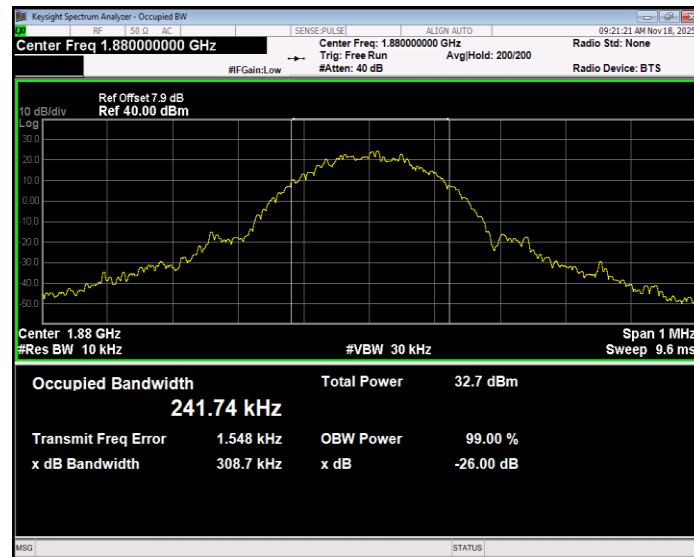
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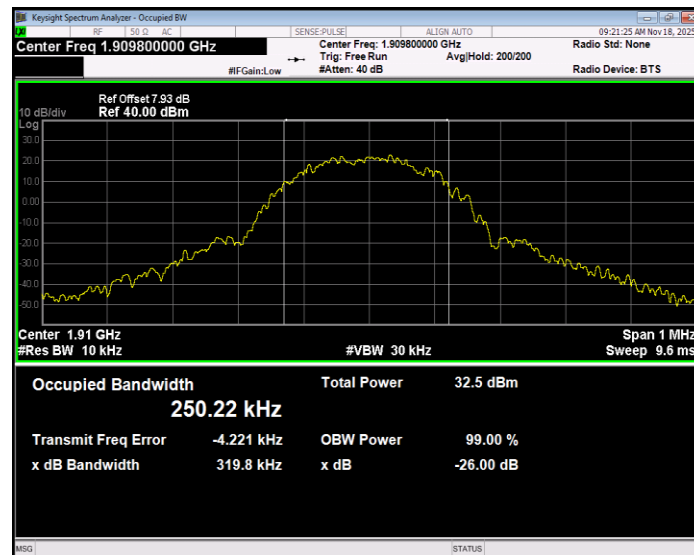


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



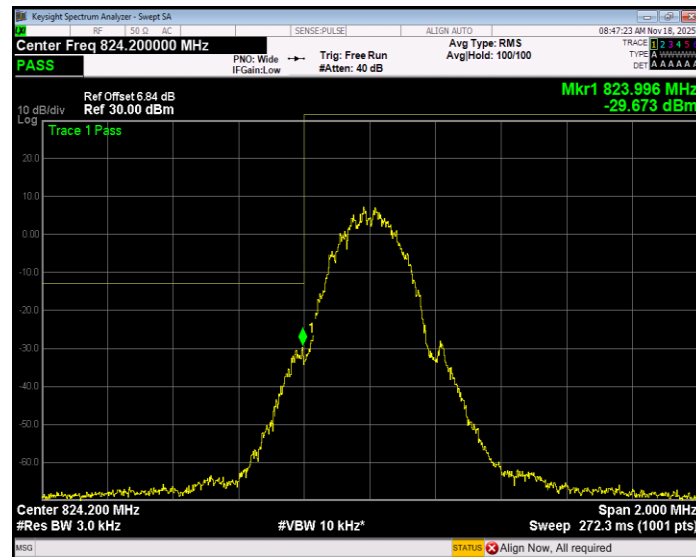


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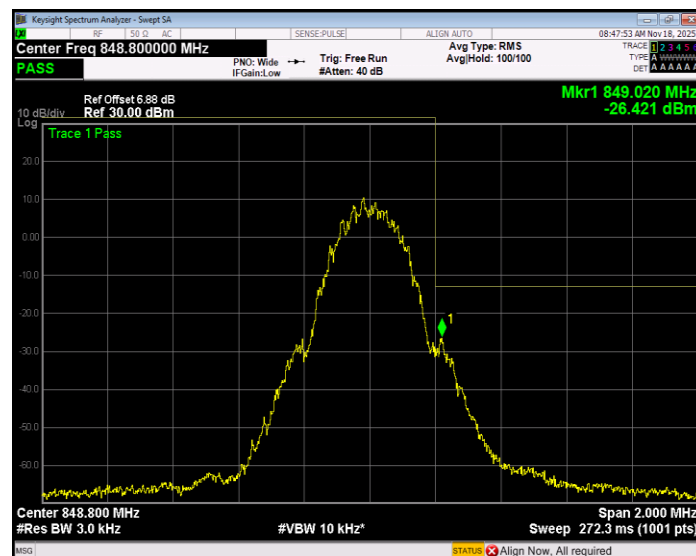
Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	824.00	-29.67	-13	PASS
GSM850	251	848.8	849.02	-26.42	-13	PASS
GPRS850	128	824.2	823.98	-29.87	-13	PASS
GPRS850	251	848.8	849.02	-27.35	-13	PASS
EGPRS850	128	824.2	823.96	-38.11	-13	PASS
EGPRS850	251	848.8	849.03	-34.26	-13	PASS
GSM1900	512	1850.2	1850.00	-30.21	-13	PASS
GSM1900	810	1909.8	1910.02	-30.46	-13	PASS
GPRS1900	512	1850.2	1849.98	-30.33	-13	PASS
GPRS1900	810	1909.8	1910.02	-31.34	-13	PASS
EGPRS1900	512	1850.2	1849.96	-37.43	-13	PASS
EGPRS1900	810	1909.8	1910.01	-37.51	-13	PASS

GSM850 Channel=128



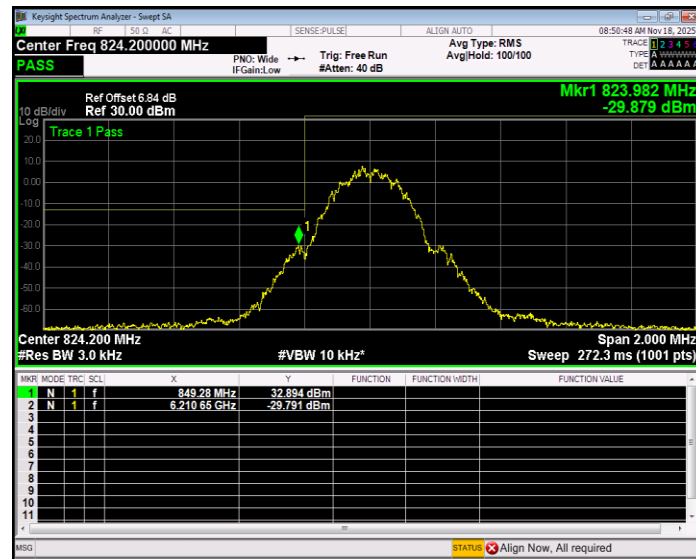
GSM850 Channel=251



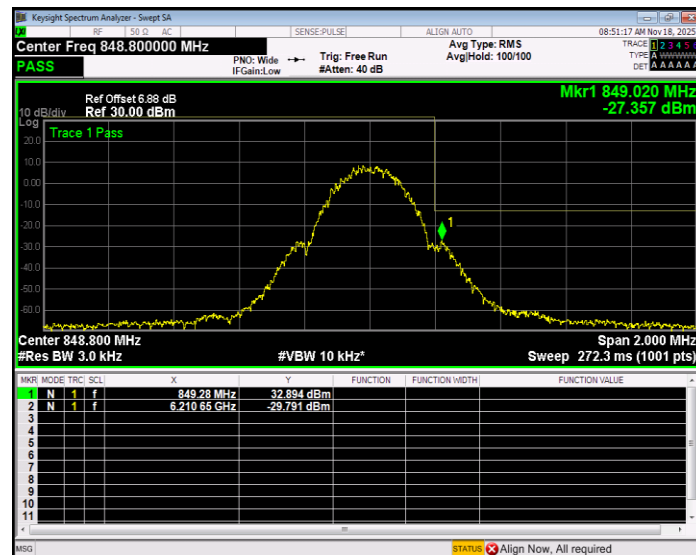


Report

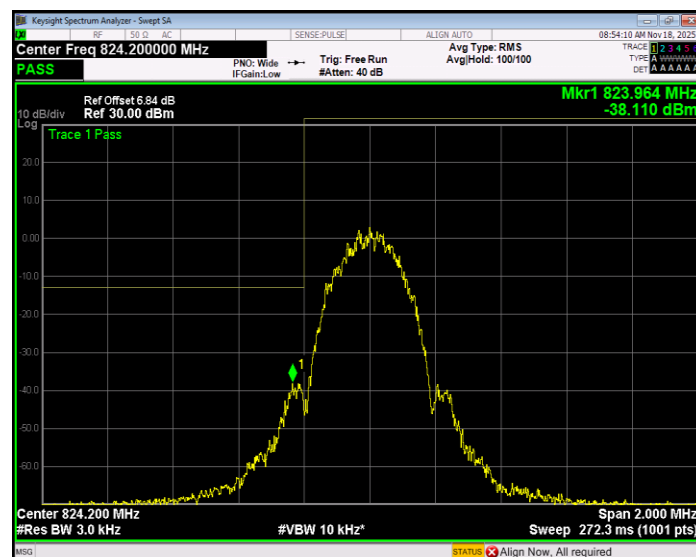
GPRS850 Channel=128



GPRS850 Channel=251



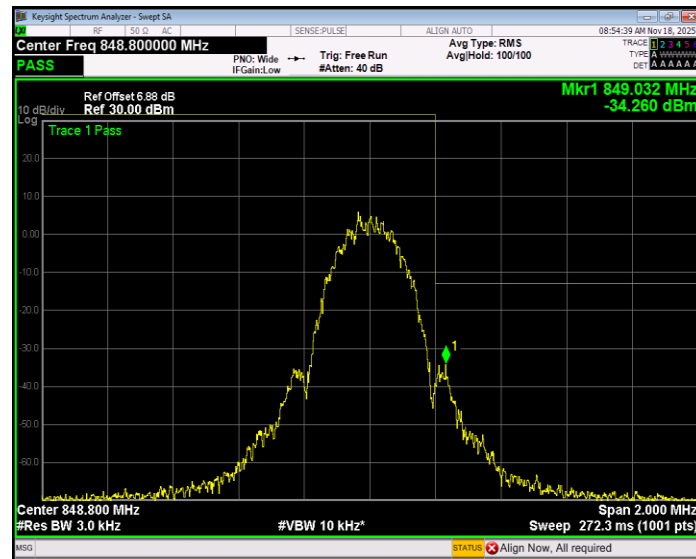
EGPRS850 Channel=128



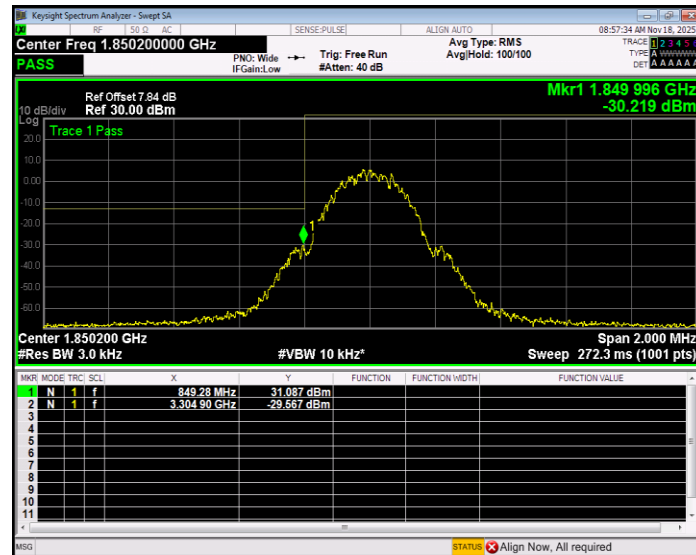


Report

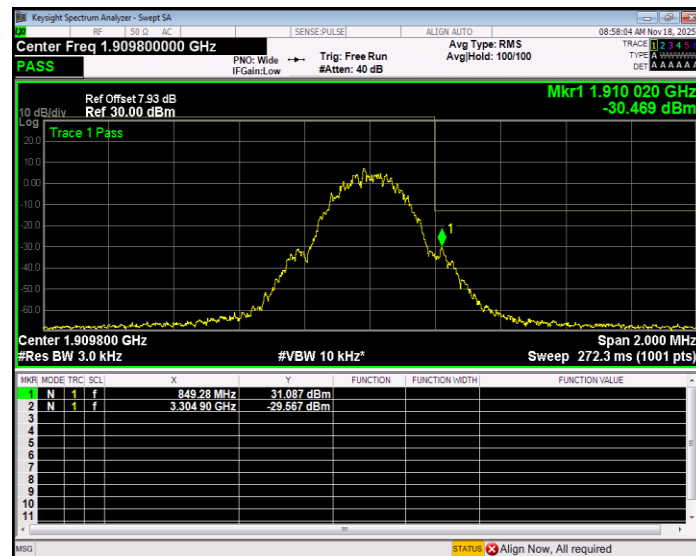
EGPRS850 Channel=251



GSM1900 Channel=512



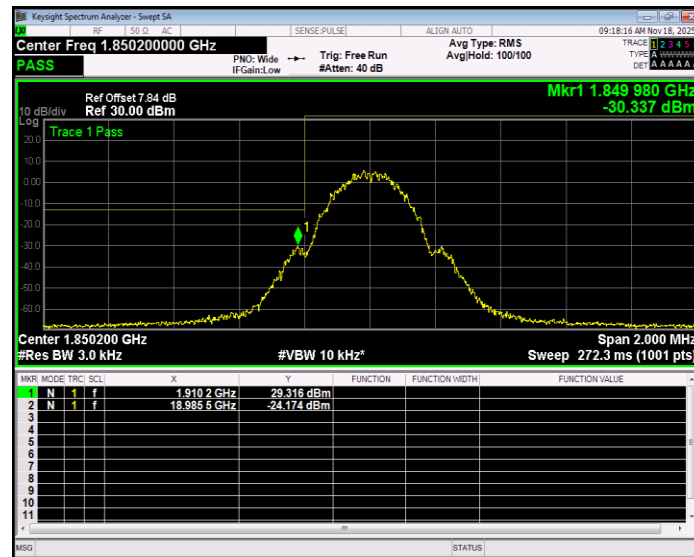
GSM1900 Channel=810



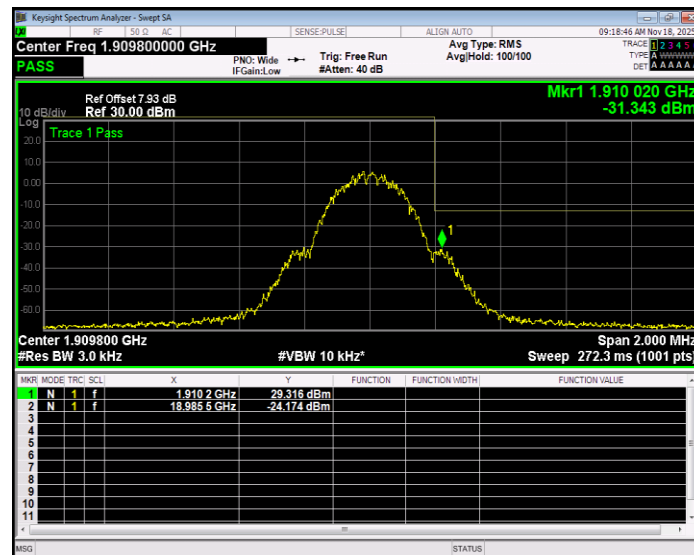


Report

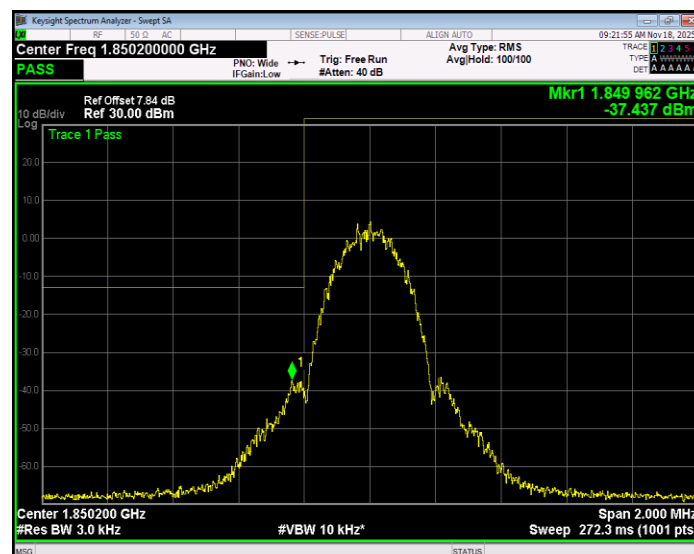
GPRS1900 Channel=512



GPRS1900 Channel=810



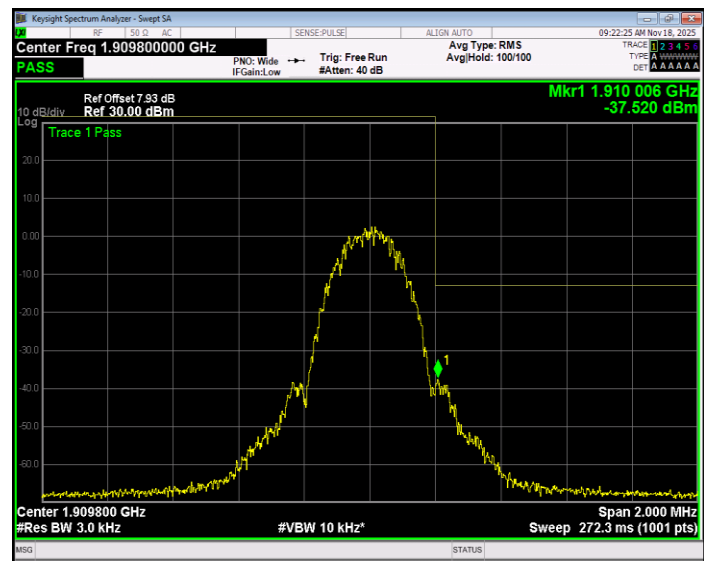
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=810



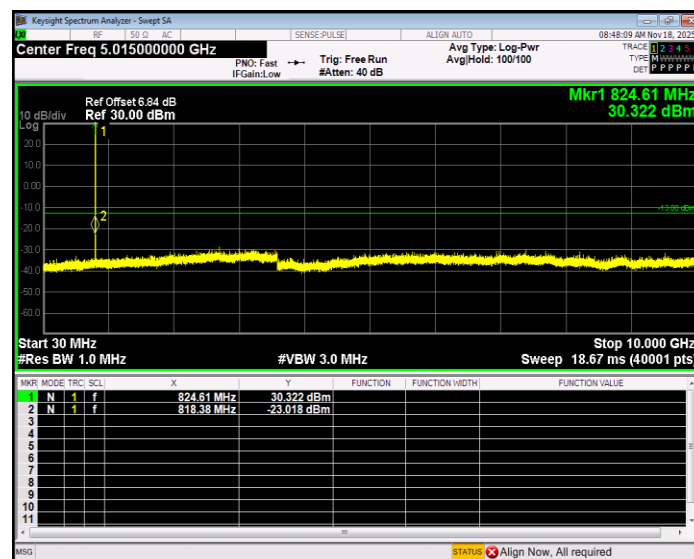


Report

Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	818.38	-23.01	-13	PASS
GSM850	190	836.6	3043.43	-29.97	-13	PASS
GSM850	251	848.8	6210.65	-29.79	-13	PASS
GPRS850	128	824.2	3112.72	-30.05	-13	PASS
GPRS850	190	836.6	2976.63	-29.73	-13	PASS
GPRS850	251	848.8	3157.34	-29.28	-13	PASS
EGPRS850	128	824.2	3371.45	-29.93	-13	PASS
EGPRS850	190	836.6	3135.16	-29.57	-13	PASS
EGPRS850	251	848.8	3304.90	-29.56	-13	PASS
GSM1900	512	1850.2	19834.25	-23.51	-13	PASS
GSM1900	661	1880	16152.78	-24.17	-13	PASS
GSM1900	810	1909.8	18985.52	-24.17	-13	PASS
GPRS1900	512	1850.2	19856.72	-23.05	-13	PASS
GPRS1900	661	1880	19726.91	-23.50	-13	PASS
GPRS1900	810	1909.8	18737.90	-24.13	-13	PASS
EGPRS1900	512	1850.2	18907.14	-24.15	-13	PASS
EGPRS1900	661	1880	16488.28	-24.03	-13	PASS
EGPRS1900	810	1909.8	19684.97	-23.33	-13	PASS

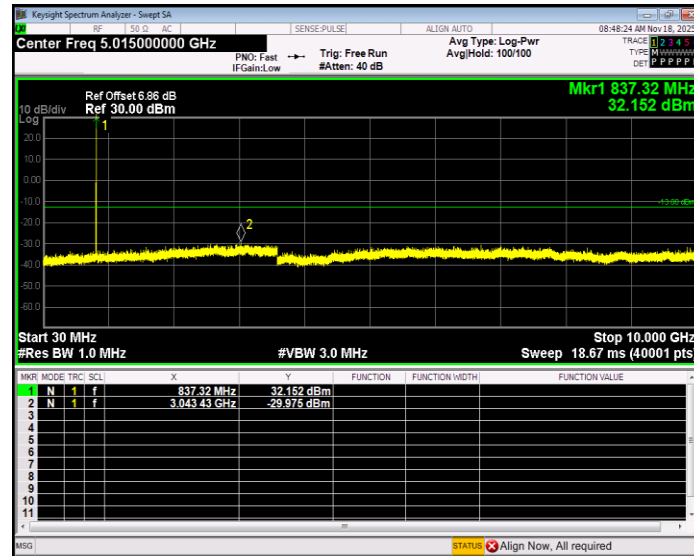
GSM850 Channel=128



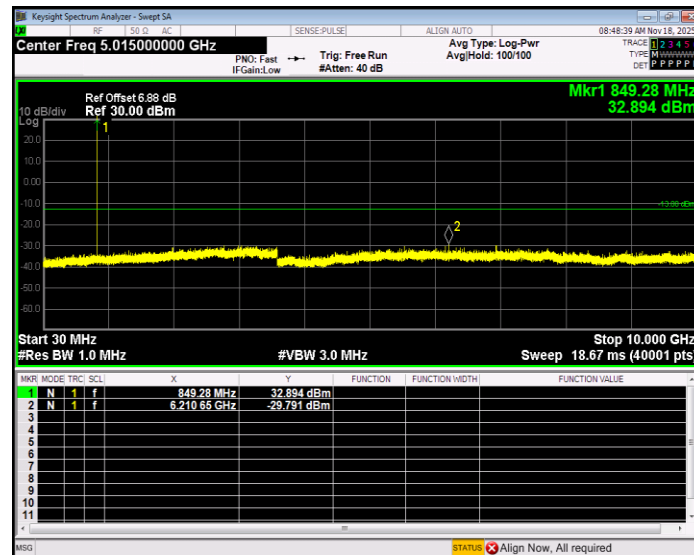
GSM850 Channel=190



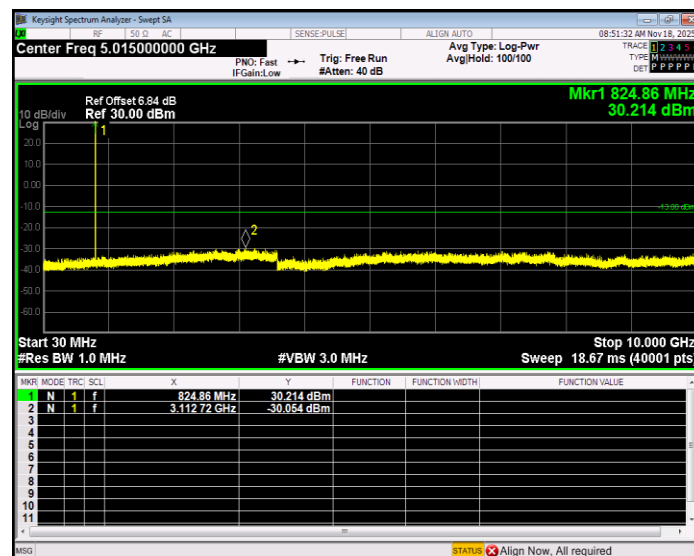
Report



GSM850 Channel=251



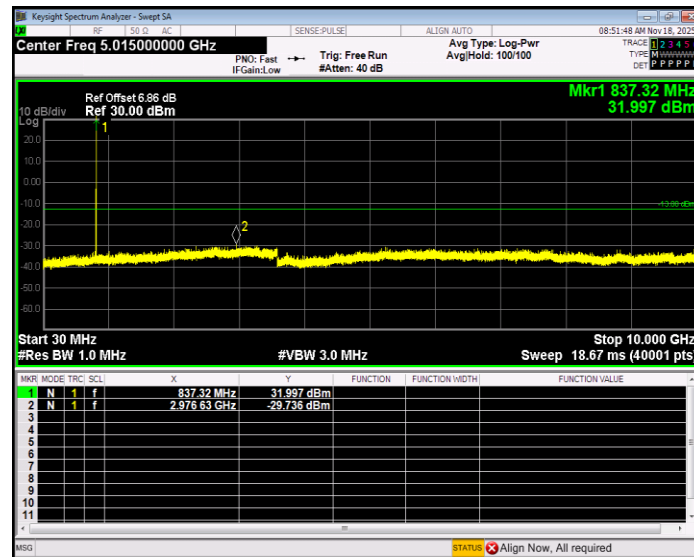
GPRS850 Channel=128



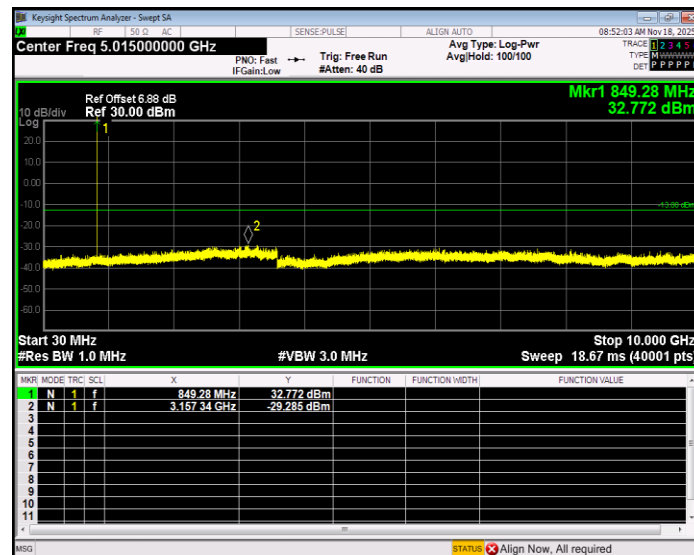


Report

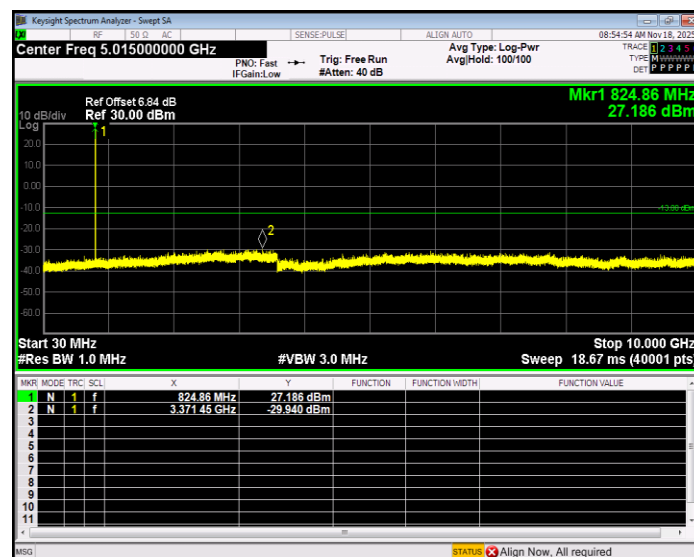
GPRS850 Channel=190



GPRS850 Channel=251



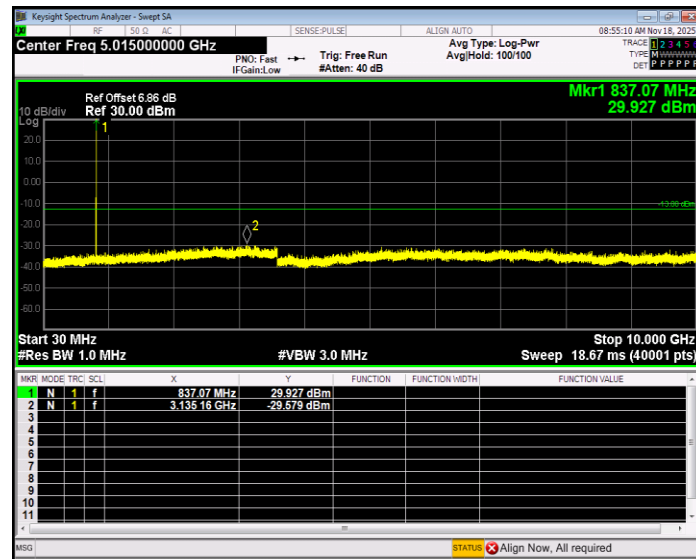
EGPRS850 Channel=128



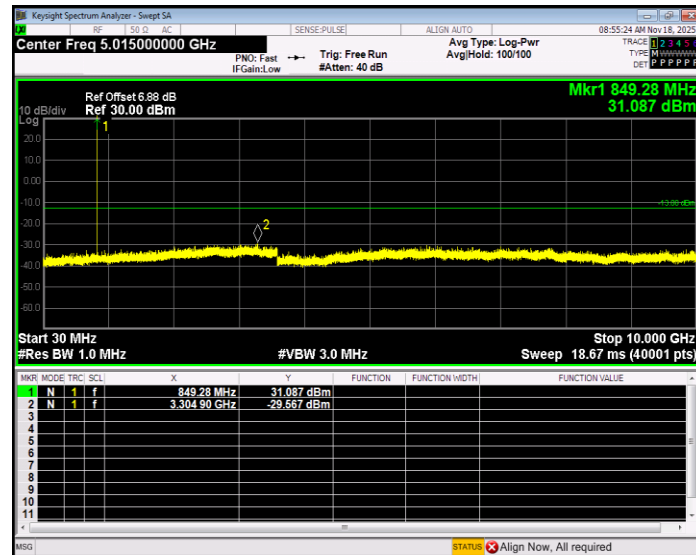


Report

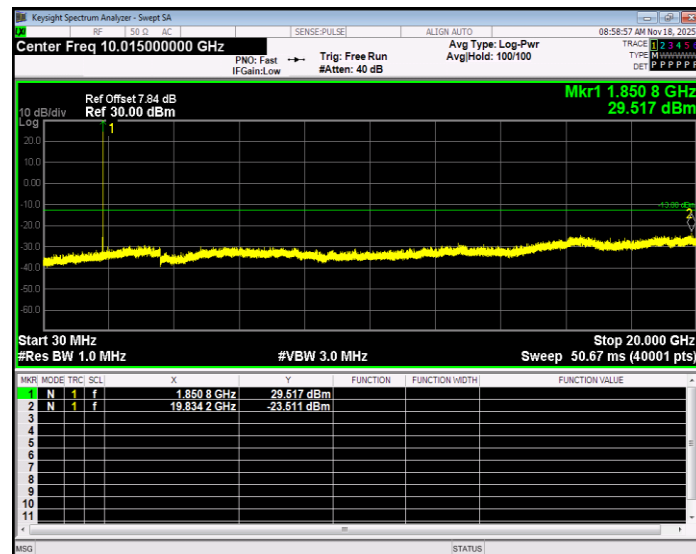
EGPRS850 Channel=190



EGPRS850 Channel=251



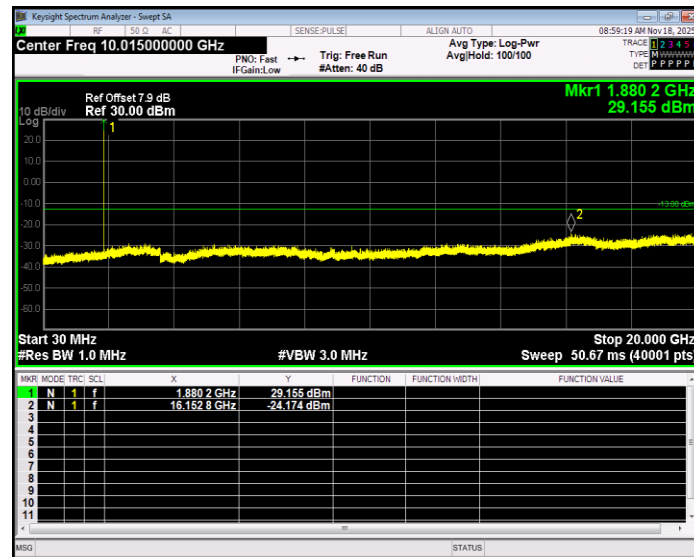
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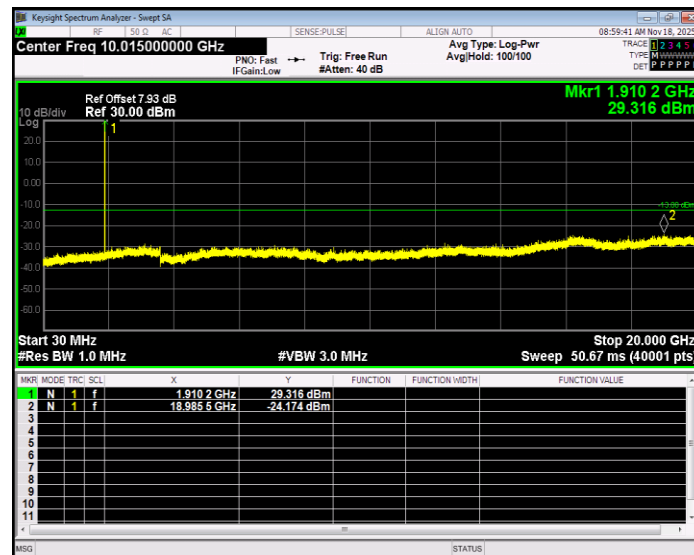


Report

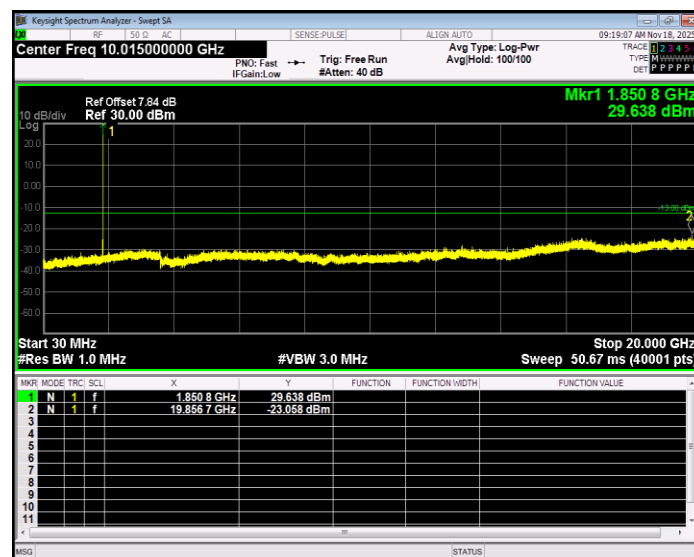
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GSM1900 Channel=810



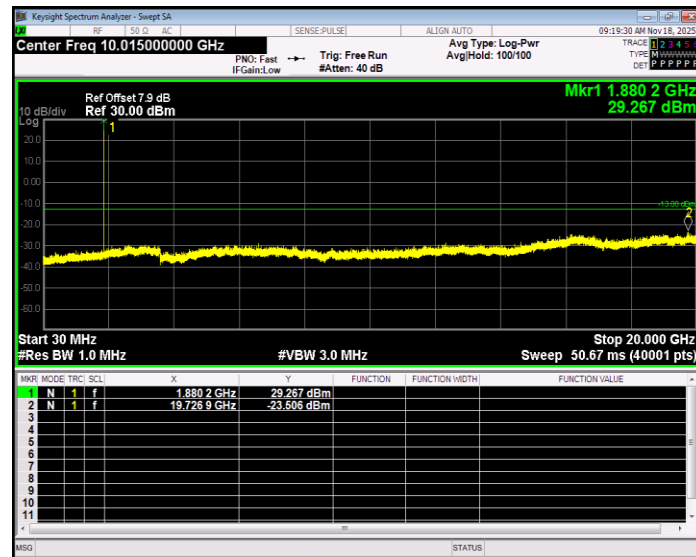
GPRS1900 Channel=512



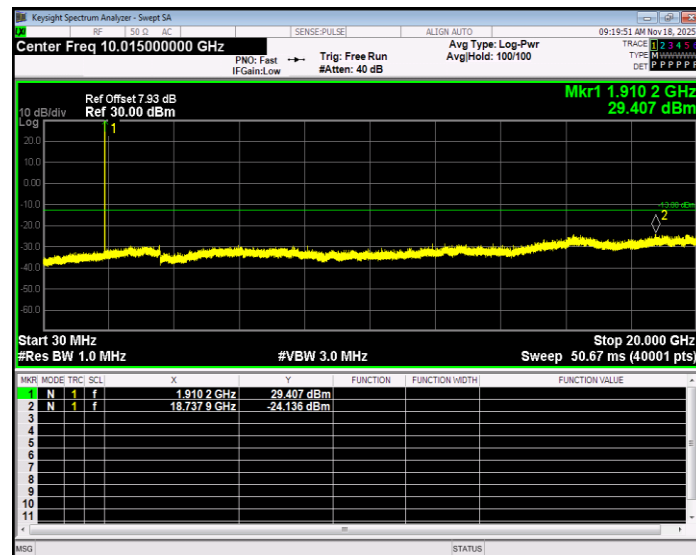


Report

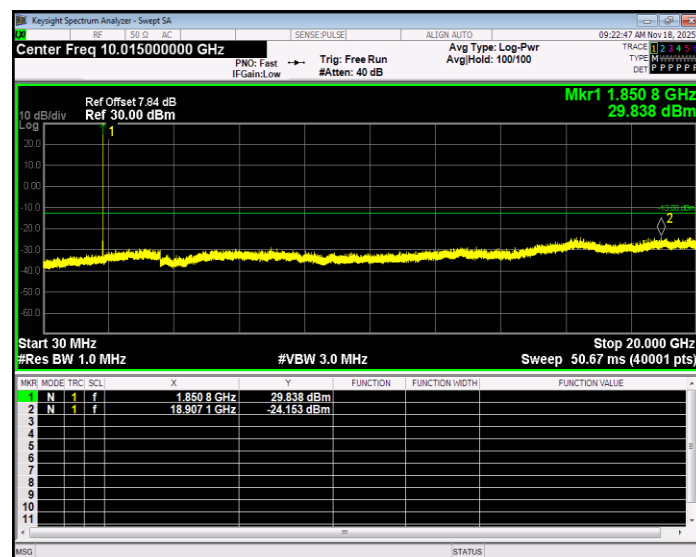
GPRS1900 Channel=661



GPRS1900 Channel=810



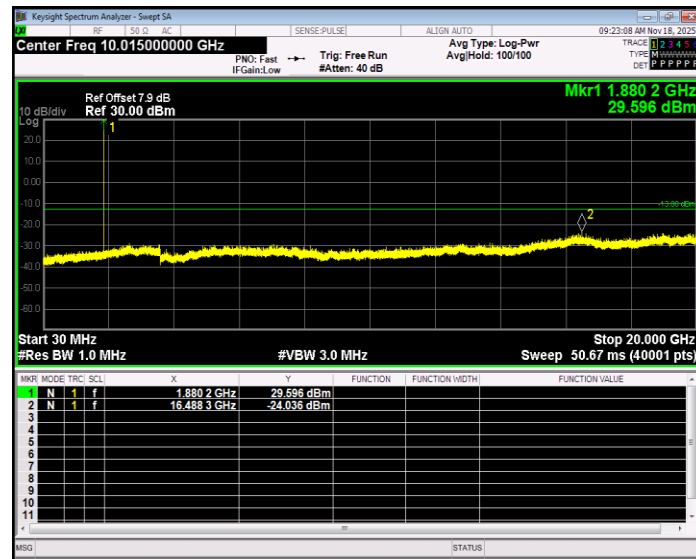
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810

