



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	33.37	-2.59	28.63	38.45	PASS
GSM850	190	836.6	33.27	-2.59	28.53	38.45	PASS
GSM850	251	848.8	33.16	-2.59	28.42	38.45	PASS
GPRS850 1 Slot	128	824.2	33.31	-2.59	28.57	38.45	PASS
GPRS850 1 Slot	190	836.6	33.22	-2.59	28.48	38.45	PASS
GPRS850 1 Slot	251	848.8	33.10	-2.59	28.36	38.45	PASS
GPRS850 2 Slot	128	824.2	31.66	-2.59	26.92	38.45	PASS
GPRS850 2 Slot	190	836.6	31.47	-2.59	26.73	38.45	PASS
GPRS850 2 Slot	251	848.8	31.18	-2.59	26.44	38.45	PASS
GPRS850 3 Slot	128	824.2	29.38	-2.59	24.64	38.45	PASS
GPRS850 3 Slot	190	836.6	29.23	-2.59	24.49	38.45	PASS
GPRS850 3 Slot	251	848.8	28.87	-2.59	24.13	38.45	PASS
GPRS850 4 Slot	128	824.2	26.95	-2.59	22.21	38.45	PASS
GPRS850 4 Slot	190	836.6	26.85	-2.59	22.11	38.45	PASS
GPRS850 4 Slot	251	848.8	26.43	-2.59	21.69	38.45	PASS
EGPRS850 1 Slot	128	824.2	26.87	-2.59	22.13	38.45	PASS
EGPRS850 1 Slot	190	836.6	27.12	-2.59	22.38	38.45	PASS
EGPRS850 1 Slot	251	848.8	27.00	-2.59	22.26	38.45	PASS
EGPRS850 2 Slot	128	824.2	24.57	-2.59	19.83	38.45	PASS
EGPRS850 2 Slot	190	836.6	24.22	-2.59	19.48	38.45	PASS
EGPRS850 2 Slot	251	848.8	25.01	-2.59	20.27	38.45	PASS
EGPRS850 3 Slot	128	824.2	22.59	-2.59	17.85	38.45	PASS
EGPRS850 3 Slot	190	836.6	22.47	-2.59	17.73	38.45	PASS
EGPRS850 3 Slot	251	848.8	22.39	-2.59	17.65	38.45	PASS
EGPRS850 4 Slot	128	824.2	19.98	-2.59	15.24	38.45	PASS
EGPRS850 4 Slot	190	836.6	19.47	-2.59	14.73	38.45	PASS
EGPRS850 4 Slot	251	848.8	20.54	-2.59	15.80	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	29.92	-1.32	28.60	33.01	PASS
GSM1900	661	1880	29.93	-1.32	28.61	33.01	PASS
GSM1900	810	1909.8	29.65	-1.32	28.33	33.01	PASS
GPRS1900 1 Slot	512	1850.2	29.88	-1.32	28.56	33.01	PASS
GPRS1900 1 Slot	661	1880	29.87	-1.32	28.55	33.01	PASS
GPRS1900 1 Slot	810	1909.8	29.58	-1.32	28.26	33.01	PASS
GPRS1900 2 Slot	512	1850.2	28.18	-1.32	26.86	33.01	PASS
GPRS1900 2 Slot	661	1880	27.93	-1.32	26.61	33.01	PASS
GPRS1900 2 Slot	810	1909.8	27.52	-1.32	26.20	33.01	PASS
GPRS1900 3 Slot	512	1850.2	25.97	-1.32	24.65	33.01	PASS
GPRS1900 3 Slot	661	1880	25.74	-1.32	24.42	33.01	PASS
GPRS1900 3 Slot	810	1909.8	25.33	-1.32	24.01	33.01	PASS
GPRS1900 4 Slot	512	1850.2	23.70	-1.32	22.38	33.01	PASS
GPRS1900 4 Slot	661	1880	23.49	-1.32	22.17	33.01	PASS
GPRS1900 4 Slot	810	1909.8	23.13	-1.32	21.81	33.01	PASS
EGPRS1900 1 Slot	512	1850.2	26.98	-1.32	25.66	33.01	PASS
EGPRS1900 1 Slot	661	1880	26.73	-1.32	25.41	33.01	PASS
EGPRS1900 1 Slot	810	1909.8	26.70	-1.32	25.38	33.01	PASS
EGPRS1900 2 Slot	512	1850.2	24.66	-1.32	23.34	33.01	PASS
EGPRS1900 2 Slot	661	1880	24.31	-1.32	22.99	33.01	PASS
EGPRS1900 2 Slot	810	1909.8	23.57	-1.32	22.25	33.01	PASS
EGPRS1900 3 Slot	512	1850.2	22.01	-1.32	20.69	33.01	PASS
EGPRS1900 3 Slot	661	1880	22.09	-1.32	20.77	33.01	PASS
EGPRS1900 3 Slot	810	1909.8	21.60	-1.32	20.28	33.01	PASS
EGPRS1900 4 Slot	512	1850.2	19.20	-1.32	17.88	33.01	PASS
EGPRS1900 4 Slot	661	1880	19.88	-1.32	18.56	33.01	PASS
EGPRS1900 4 Slot	810	1909.8	19.60	-1.32	18.28	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	-3.37	-0.004	2.5ppm	PASS
40		-3.41	-0.004		
30		-3.27	-0.004		
20		4.58	0.005		
10		3.05	0.004		
0		2.84	0.003		
-10		-3.14	-0.004		
-20		-3.07	-0.004		
-30		3.17	0.004		
20	Maximum Voltage	-3.40	-0.004		
20	BEP	2.90	0.003		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-9.67	-0.012	2.5ppm	PASS
40		10.14	0.012		
30		9.93	0.012		
20		18.27	0.022		
10		9.68	0.012		
0		-9.98	-0.012		
-10		9.95	0.012		
-20		-10.01	-0.012		
-30		-9.68	-0.012		
20	Maximum Voltage	-9.90	-0.012		
20	BEP	-9.93	-0.012		



Report

EGPRS 850 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-1.58	-0.002	2.5ppm	PASS
40		-1.29	-0.002		
30		1.50	0.002		
20		1.16	0.001		
10		-1.34	-0.002		
0		1.38	0.002		
-10		1.40	0.002		
-20		-1.35	-0.002		
-30		-1.39	-0.002		
20	Maximum Voltage	1.65	0.002		
20	BEP	1.47	0.002		

GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	1.77	0.001	Within Authorized Band	PASS
40		1.63	0.001		
30		1.45	0.001		
20		1.52	0.001		
10		1.86	0.001		
0		-1.83	-0.001		
-10		1.39	0.001		
-20		1.43	0.001		
-30		-1.59	-0.001		
20	Maximum Voltage	1.46	0.001		
20	BEP	-1.46	-0.001		



Report

GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	0.50	0.000	Within Authorized Band	PASS
40		-0.34	0.000		
30		-0.70	0.000		
20		-2.61	-0.001		
10		-0.29	0.000		
0		-0.64	0.000		
-10		-0.42	0.000		
-20		0.46	0.000		
-30		-0.40	0.000		
20	Maximum Voltage	-0.39	0.000		
20	BEP	0.27	0.000		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	2.02	0.001	Within Authorized Band	PASS
40		2.07	0.001		
30		2.20	0.001		
20		-6.04	-0.003		
10		2.30	0.001		
0		2.36	0.001		
-10		1.90	0.001		
-20		1.90	0.001		
-30		-2.25	-0.001		
20	Maximum Voltage	2.47	0.001		
20	BEP	-2.36	-0.001		

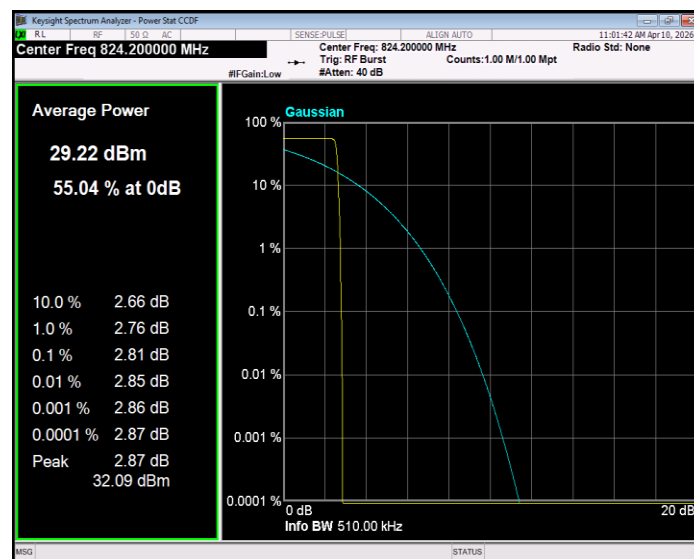


Report

Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM850	128	824.2	2.81	13	PASS
GSM850	190	836.6	2.75	13	PASS
GSM850	251	848.8	2.80	13	PASS
GPRS850	128	824.2	2.79	13	PASS
GPRS850	190	836.6	2.73	13	PASS
GPRS850	251	848.8	2.78	13	PASS
EGPRS850	128	824.2	8.39	13	PASS
EGPRS850	190	836.6	9.05	13	PASS
EGPRS850	251	848.8	8.11	13	PASS
GSM1900	512	1850.2	2.79	13	PASS
GSM1900	661	1880	2.79	13	PASS
GSM1900	810	1909.8	2.79	13	PASS
GPRS1900	512	1850.2	2.81	13	PASS
GPRS1900	661	1880	2.81	13	PASS
GPRS1900	810	1909.8	2.82	13	PASS
EGPRS1900	512	1850.2	5.75	13	PASS
EGPRS1900	661	1880	5.85	13	PASS
EGPRS1900	810	1909.8	5.74	13	PASS

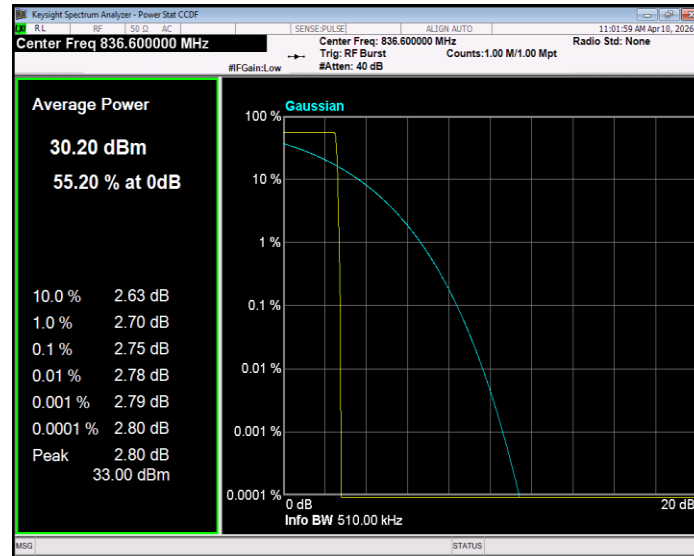
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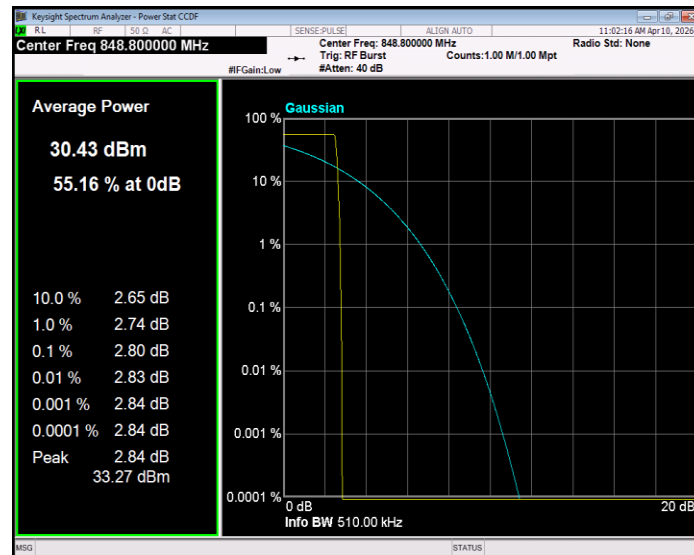
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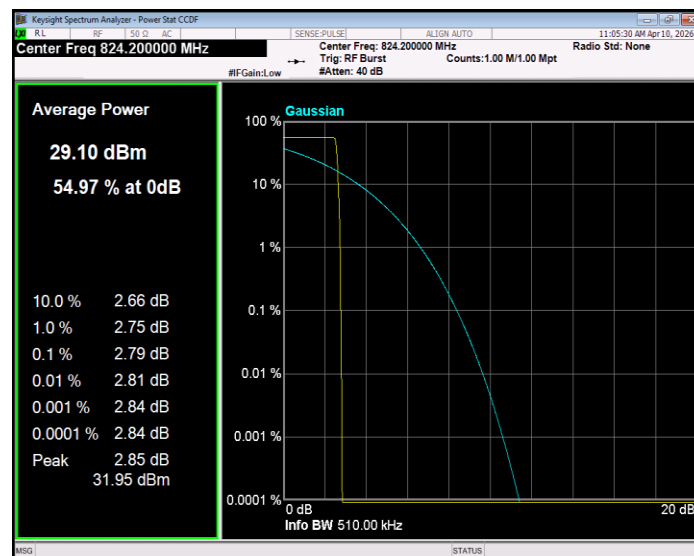
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GSM850 Channel=251



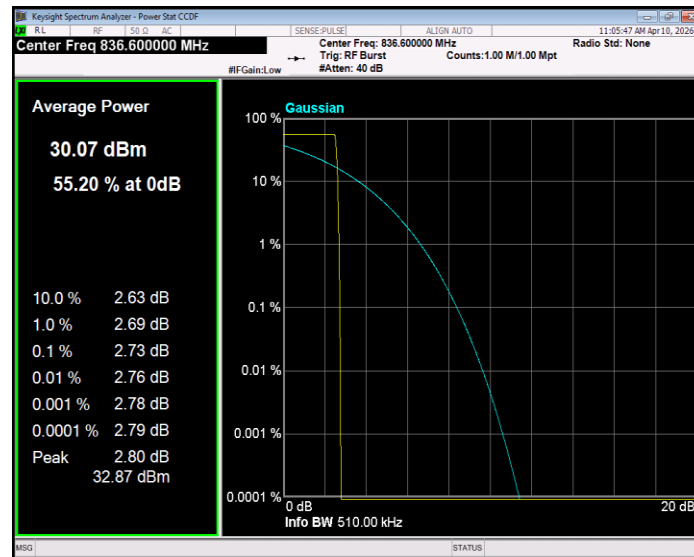
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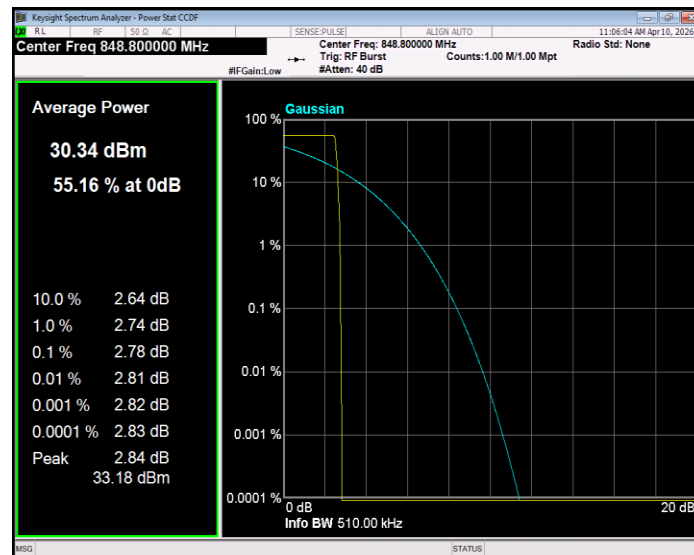


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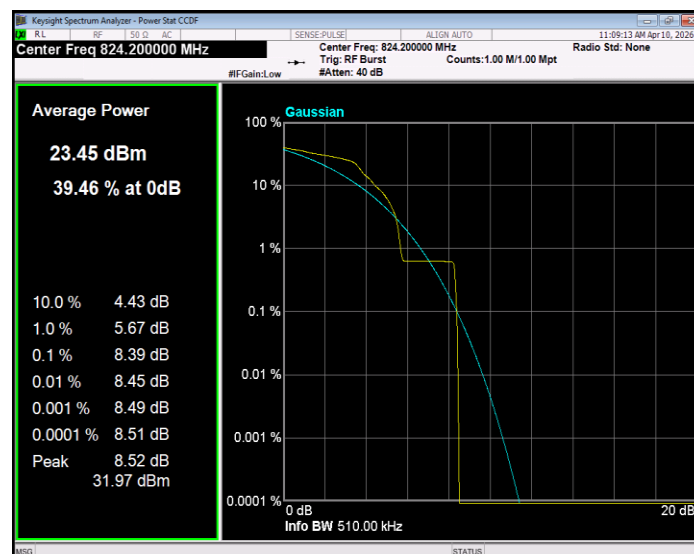
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GPRS850 Channel=251



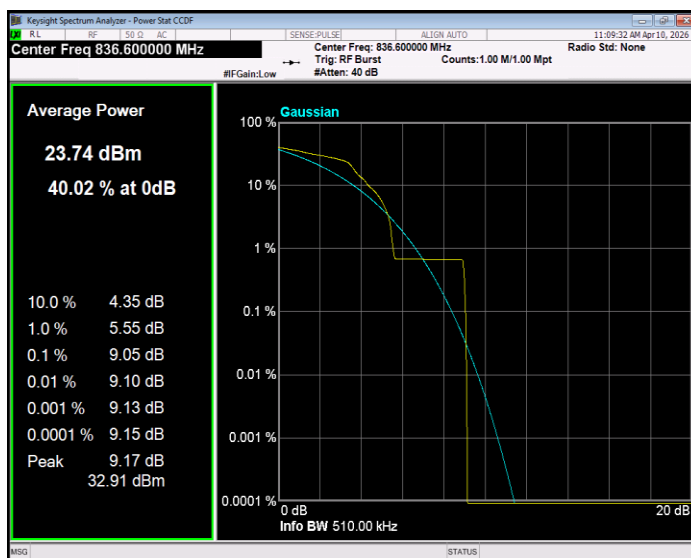
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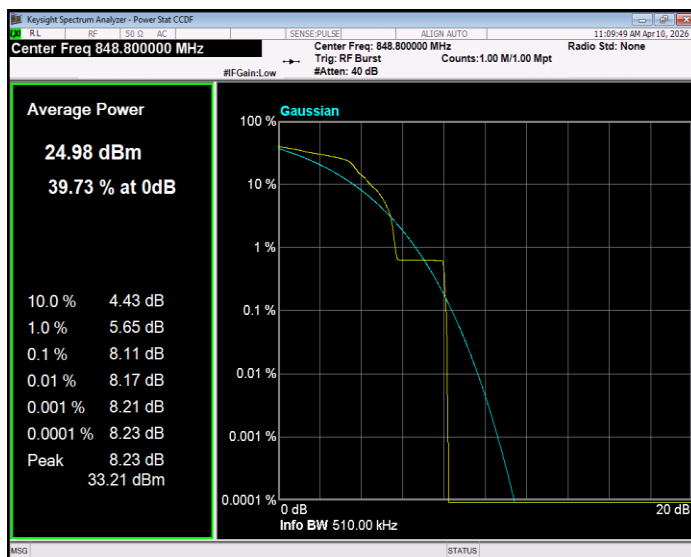


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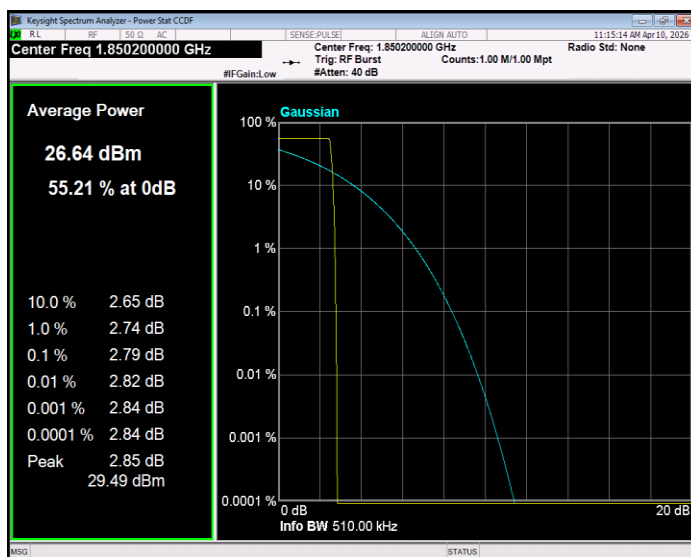
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EGPRS850 Channel=251



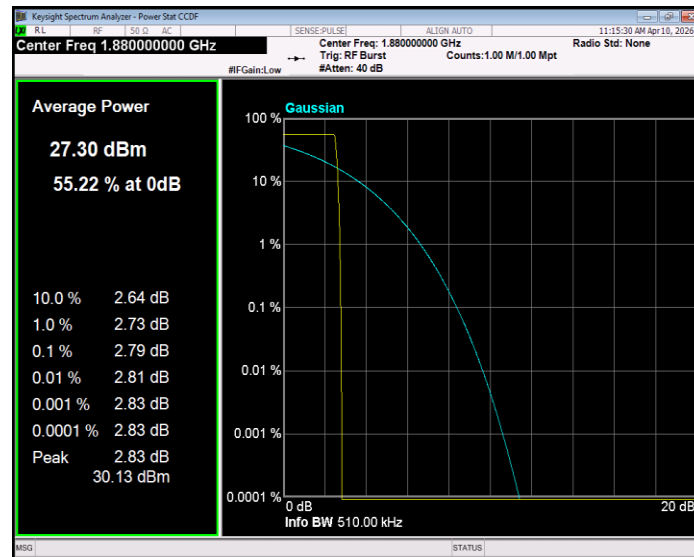
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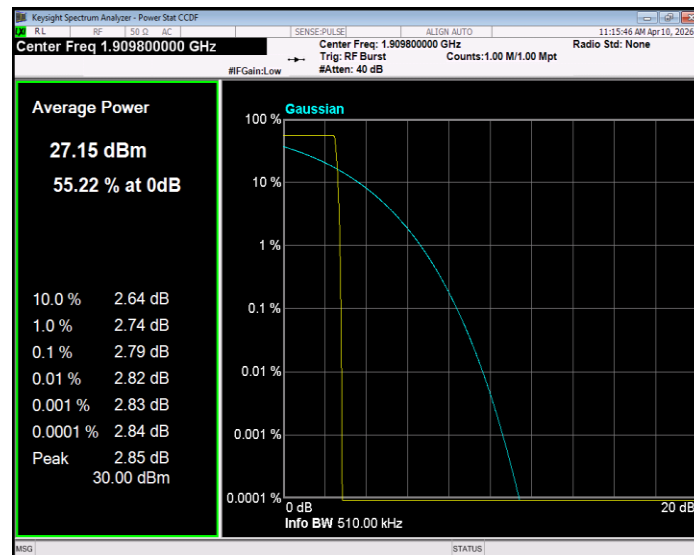


Report

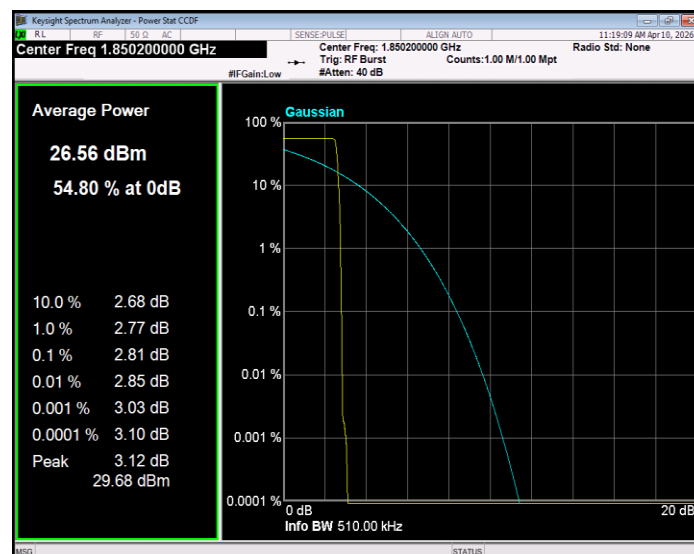
GSM1900 Channel=661



GSM1900 Channel=810



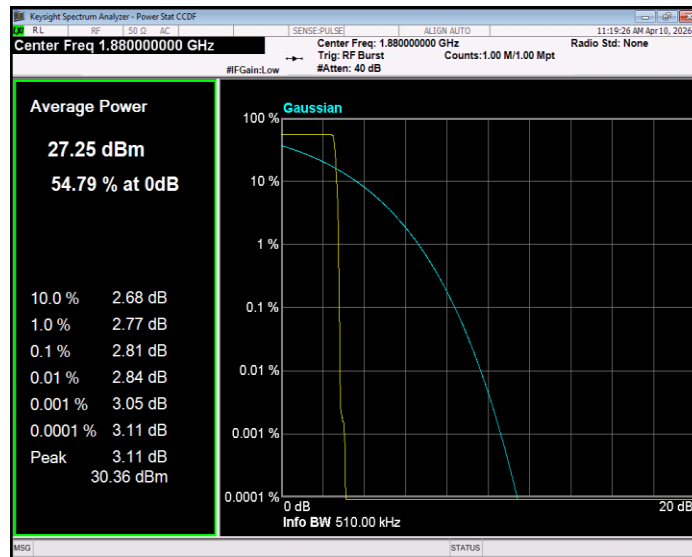
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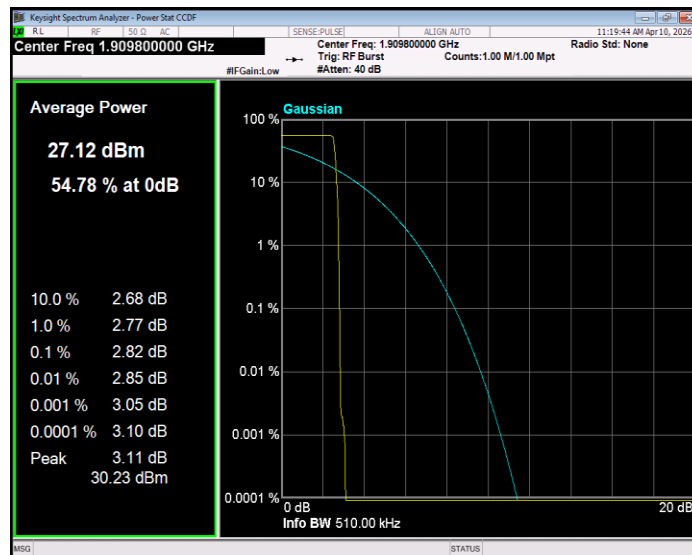


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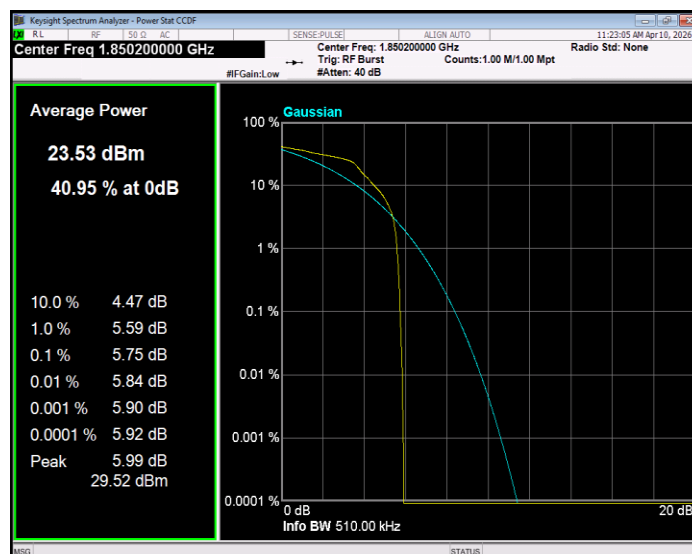
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GPRS1900 Channel=810



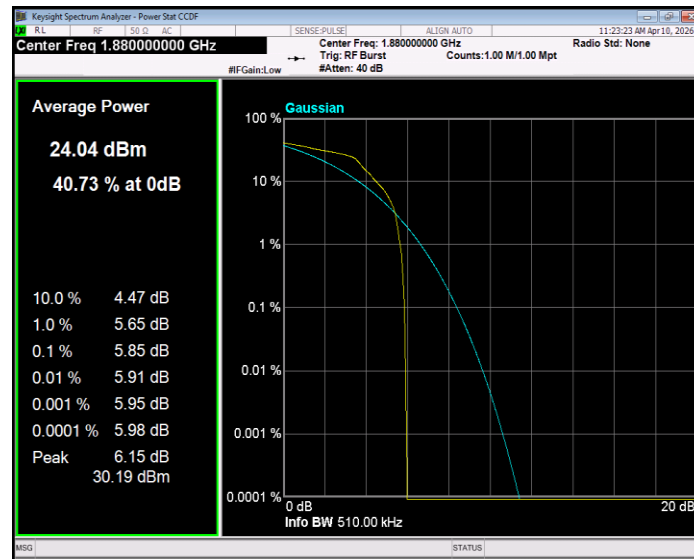
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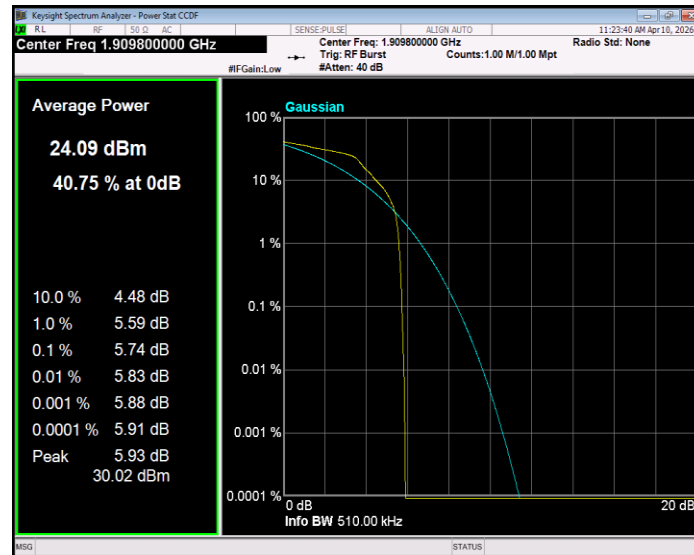


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EGPRS1900 Channel=661



EGPRS1900 Channel=810



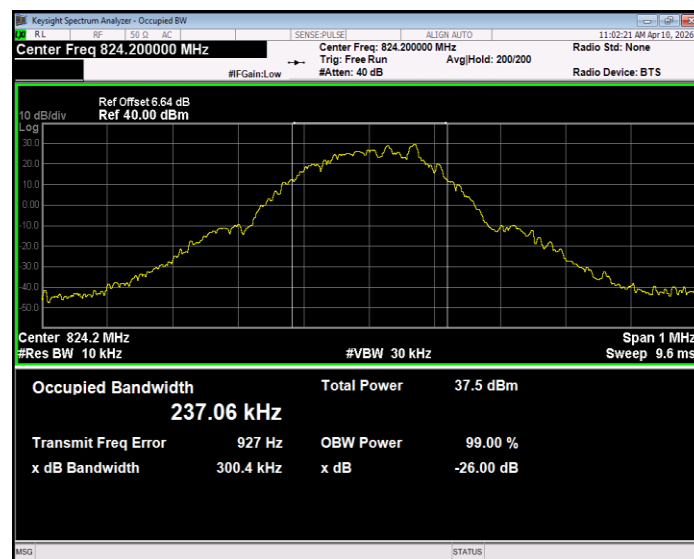


Report

Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	237.056	300.365	PASS
GSM850	190	836.6	242.799	320.998	PASS
GSM850	251	848.8	240.762	311.778	PASS
GPRS850	128	824.2	245.447	315.148	PASS
GPRS850	190	836.6	243.216	310.214	PASS
GPRS850	251	848.8	247.611	319.941	PASS
EGPRS850	128	824.2	235.415	318.088	PASS
EGPRS850	190	836.6	248.900	320.511	PASS
EGPRS850	251	848.8	244.679	323.918	PASS
GSM1900	512	1850.2	239.849	307.160	PASS
GSM1900	661	1880	242.140	305.736	PASS
GSM1900	810	1909.8	241.629	306.985	PASS
GPRS1900	512	1850.2	246.295	322.265	PASS
GPRS1900	661	1880	239.829	315.551	PASS
GPRS1900	810	1909.8	248.606	327.303	PASS
EGPRS1900	512	1850.2	244.804	313.560	PASS
EGPRS1900	661	1880	235.663	307.914	PASS
EGPRS1900	810	1909.8	242.135	306.342	PASS

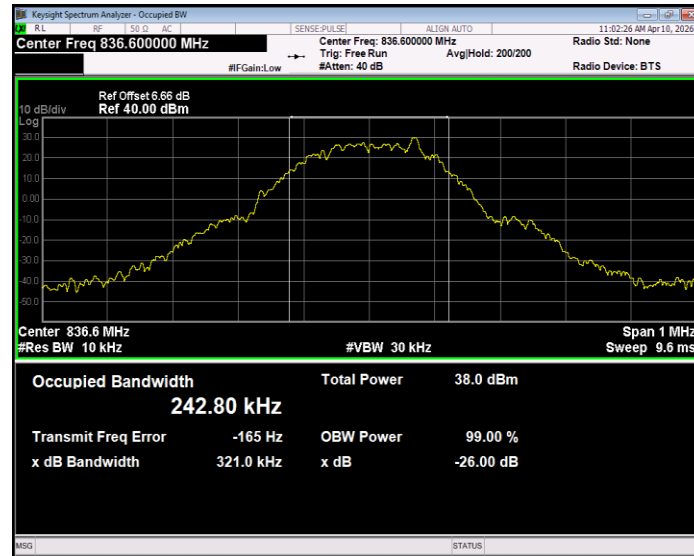
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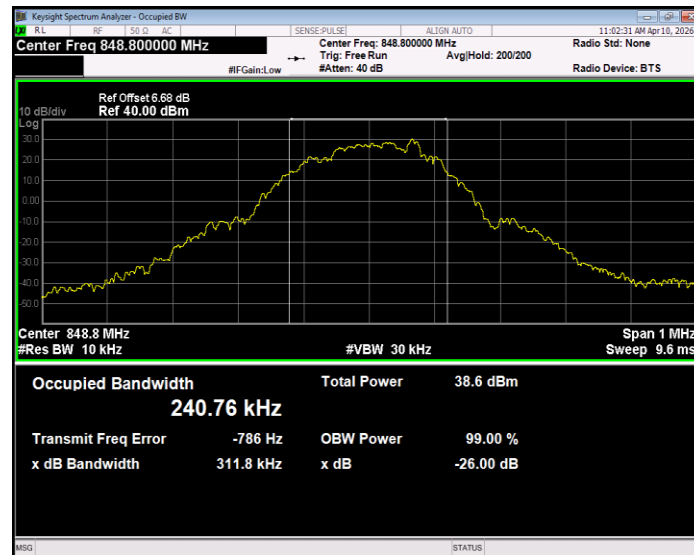
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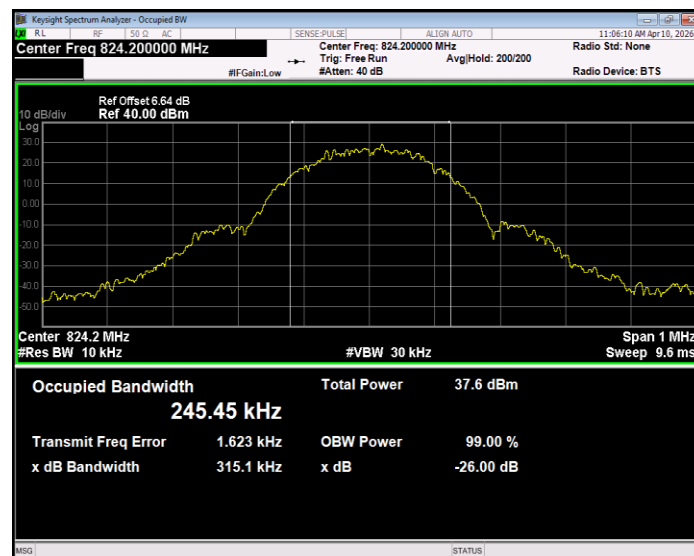
Report



GSM850 Channel=251



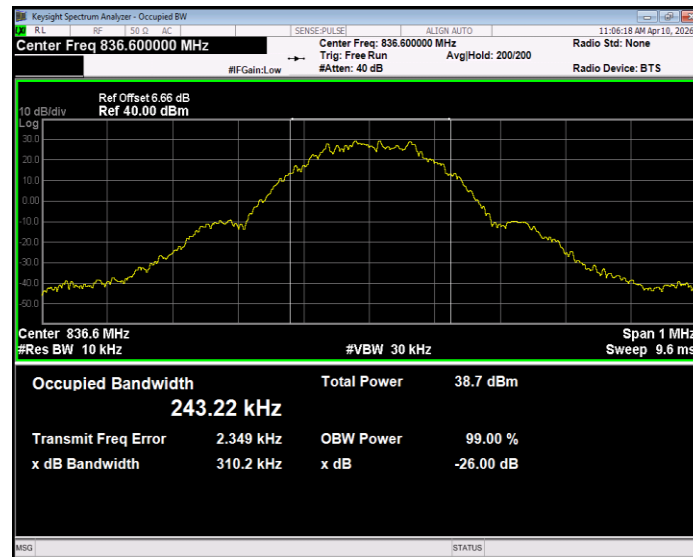
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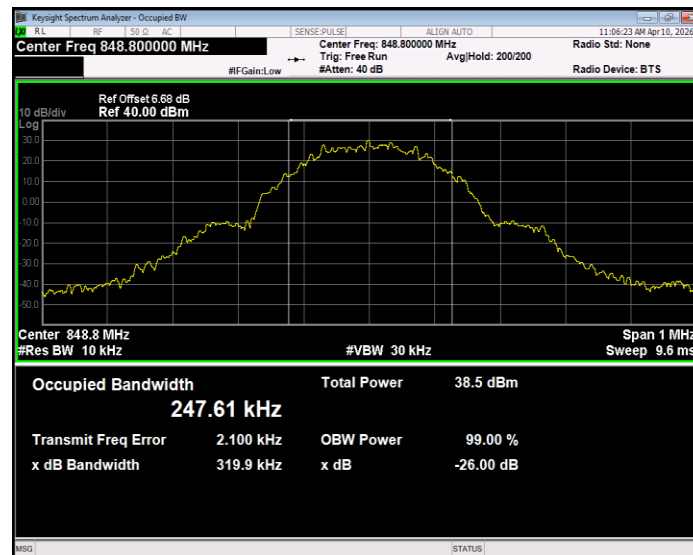


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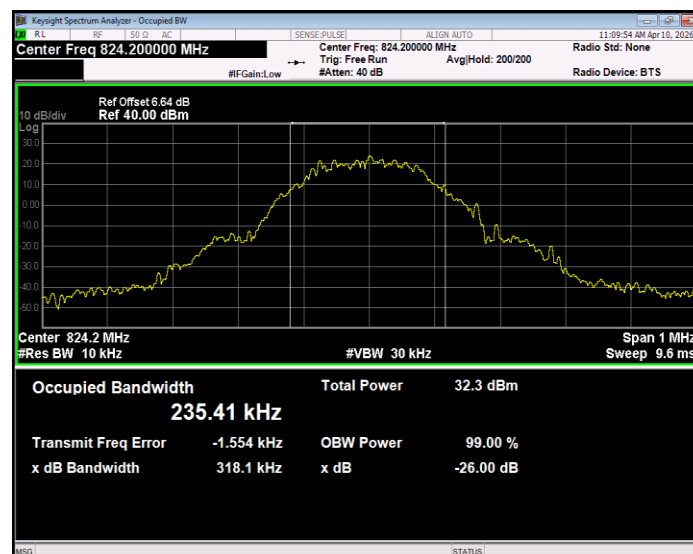
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GPRS850 Channel=251



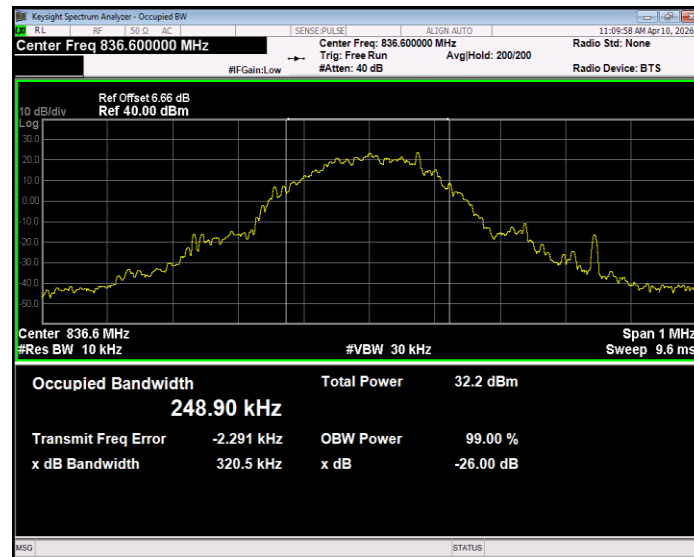
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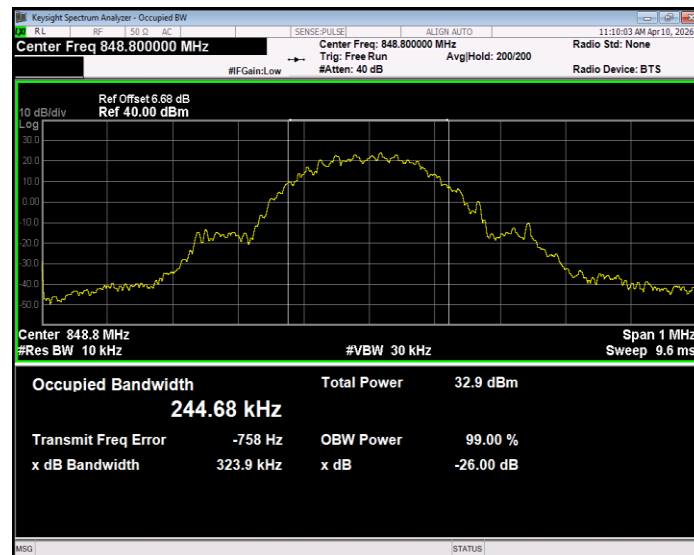


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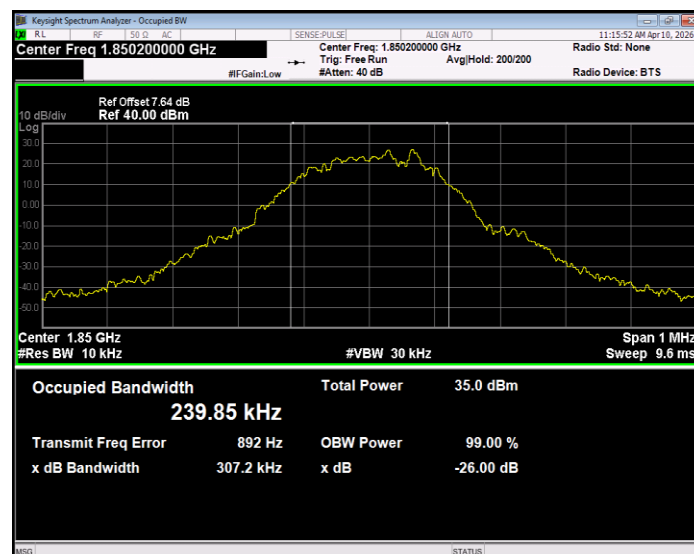
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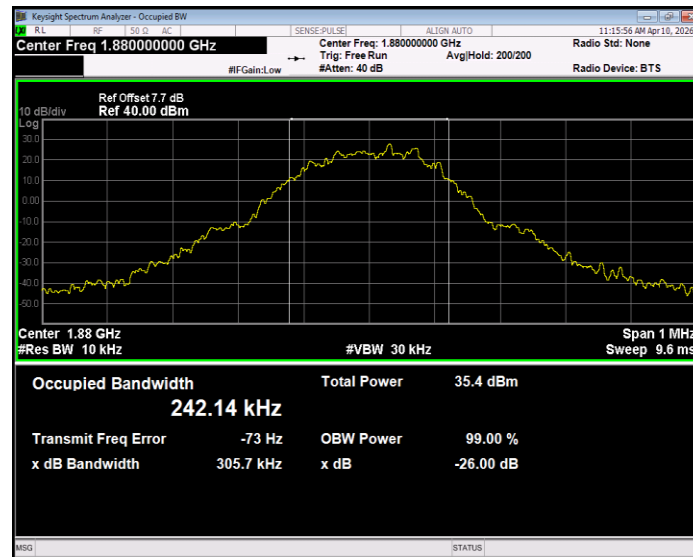
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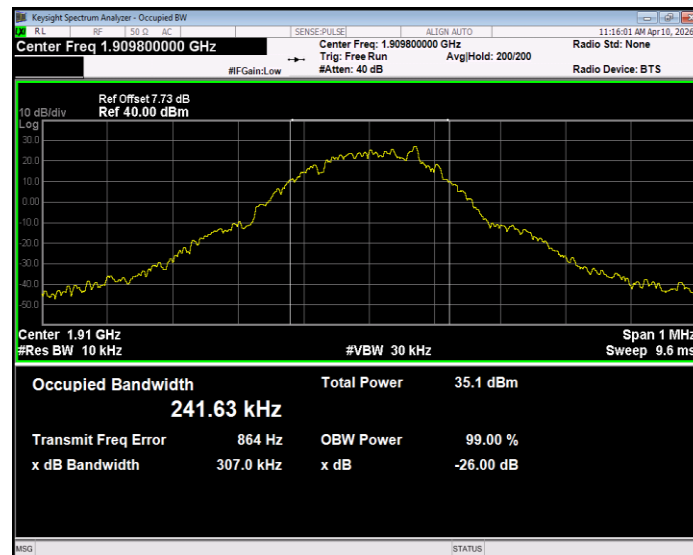


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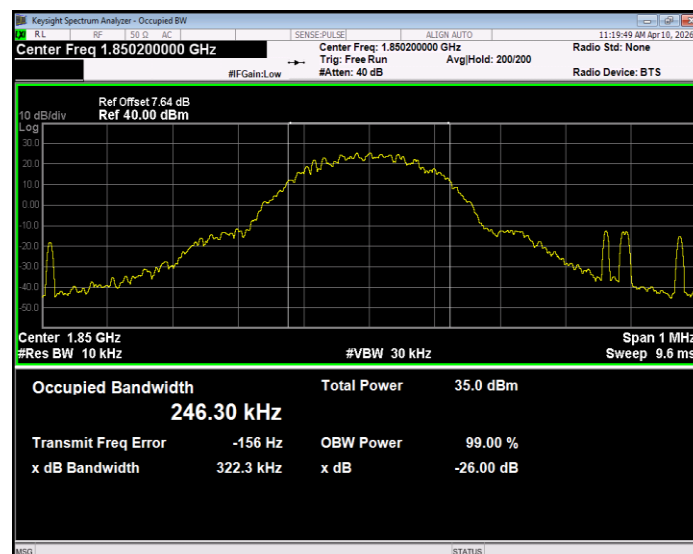
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GSM1900 Channel=810



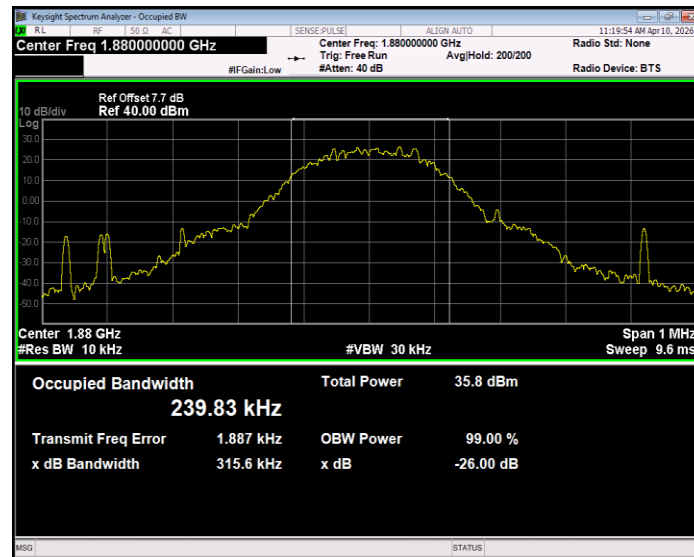
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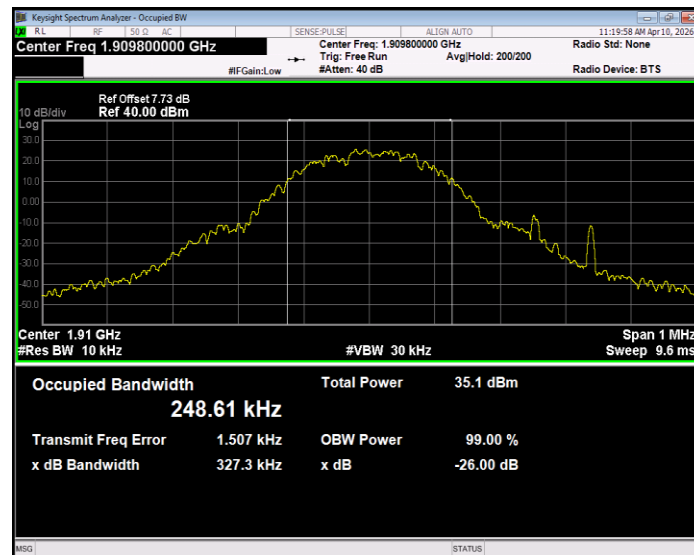


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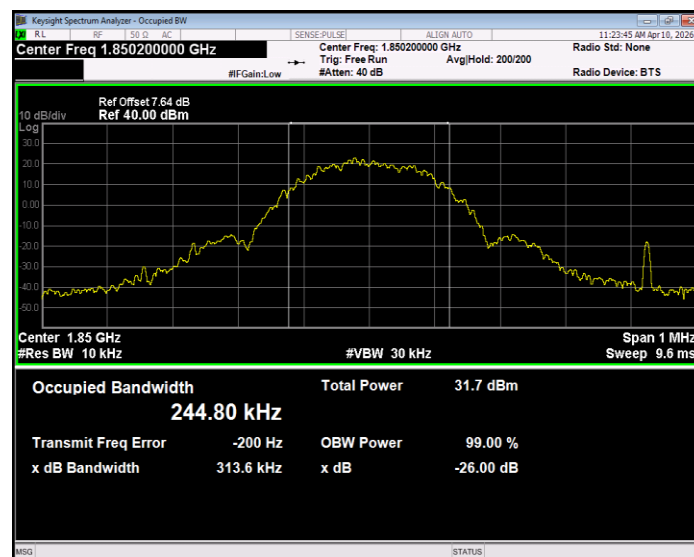
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GPRS1900 Channel=810



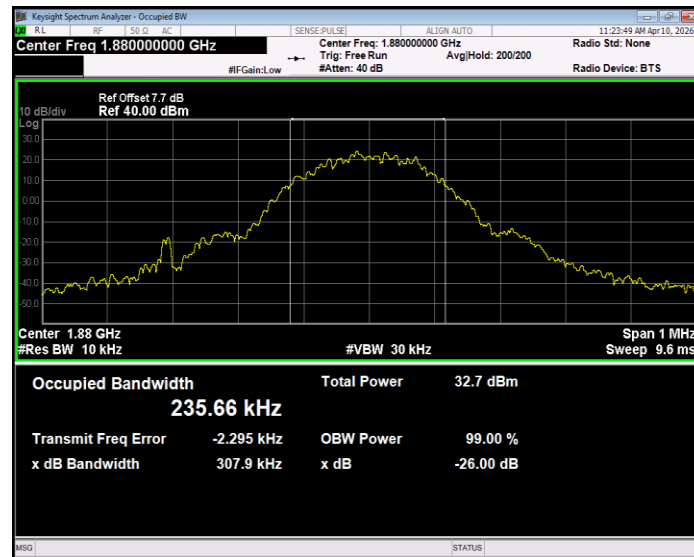
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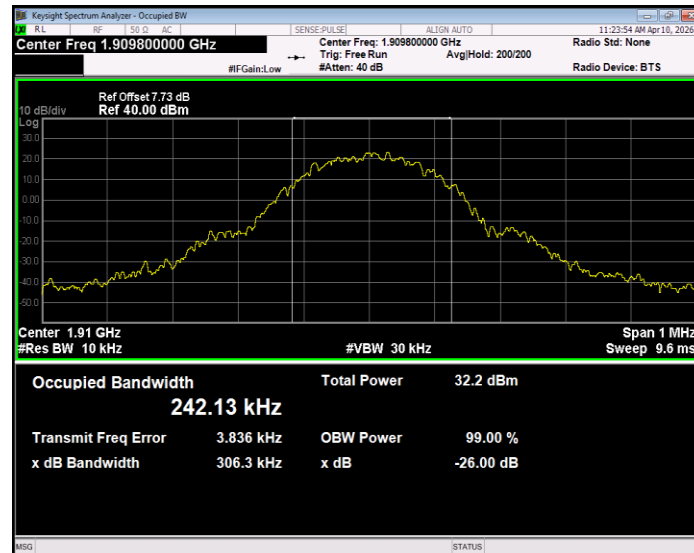


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810





Report

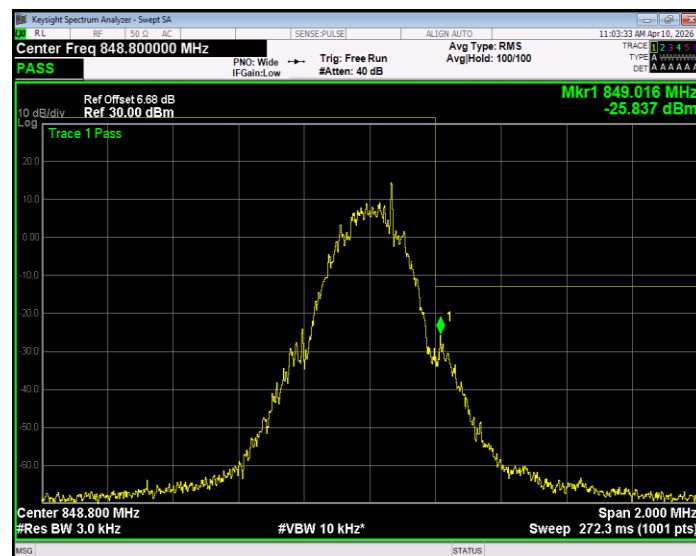
Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	824.00	-25.26	-13	PASS
GSM850	251	848.8	849.02	-25.83	-13	PASS
GPRS850	128	824.2	823.98	-28.25	-13	PASS
GPRS850	251	848.8	849.02	-27.70	-13	PASS
EGPRS850	128	824.2	824.00	-34.22	-13	PASS
EGPRS850	251	848.8	849.00	-33.95	-13	PASS
GSM1900	512	1850.2	1850.00	-28.68	-13	PASS
GSM1900	810	1909.8	1910.02	-29.32	-13	PASS
GPRS1900	512	1850.2	1849.98	-30.68	-13	PASS
GPRS1900	810	1909.8	1910.01	-30.30	-13	PASS
EGPRS1900	512	1850.2	1849.99	-35.73	-13	PASS
EGPRS1900	810	1909.8	1910.00	-33.88	-13	PASS

GSM850 Channel=128



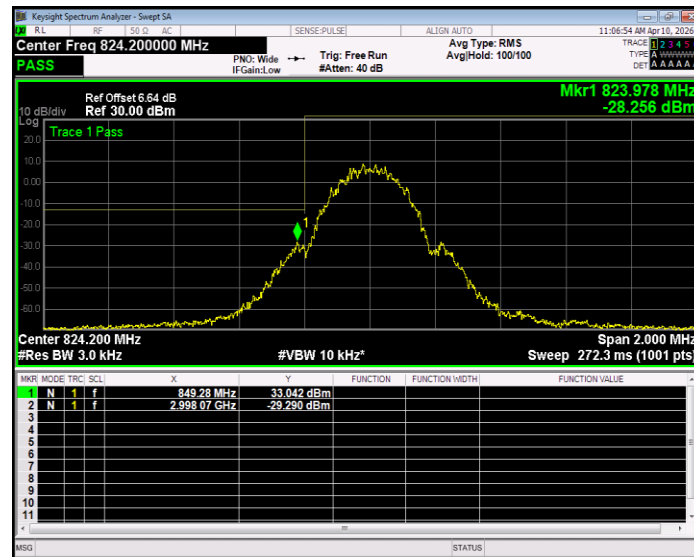
GSM850 Channel=251



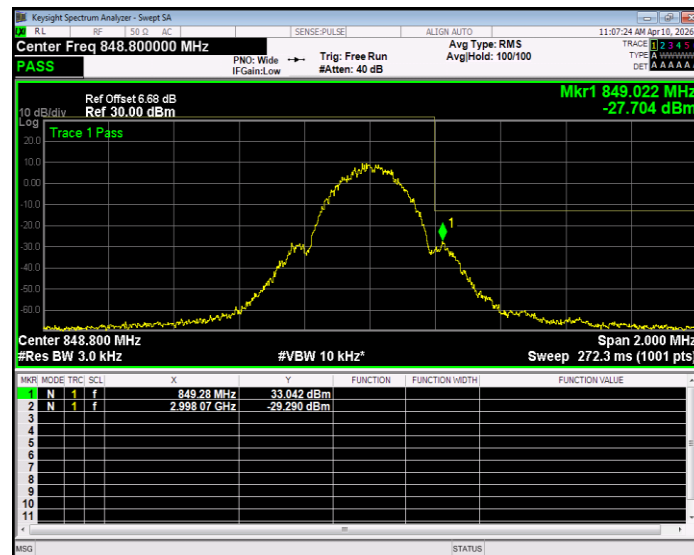


Report

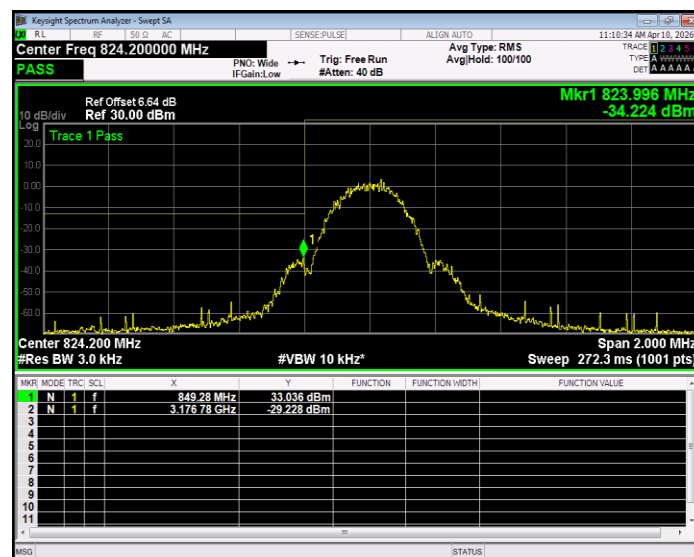
GPRS850 Channel=128



GPRS850 Channel=251



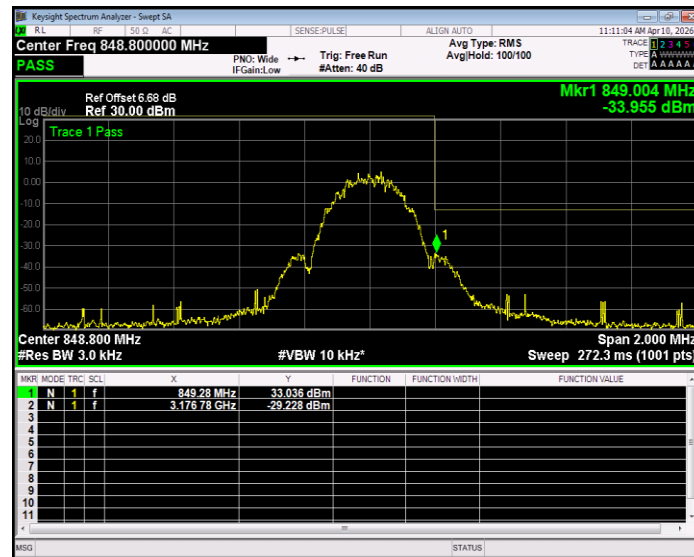
EGPRS850 Channel=128



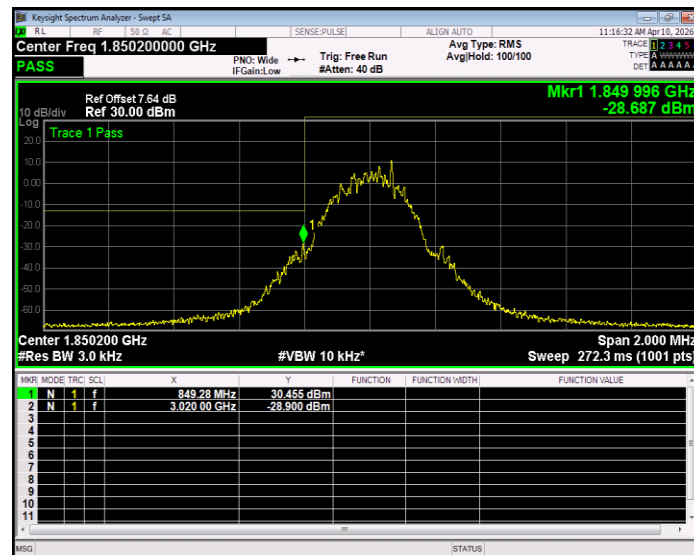


Report

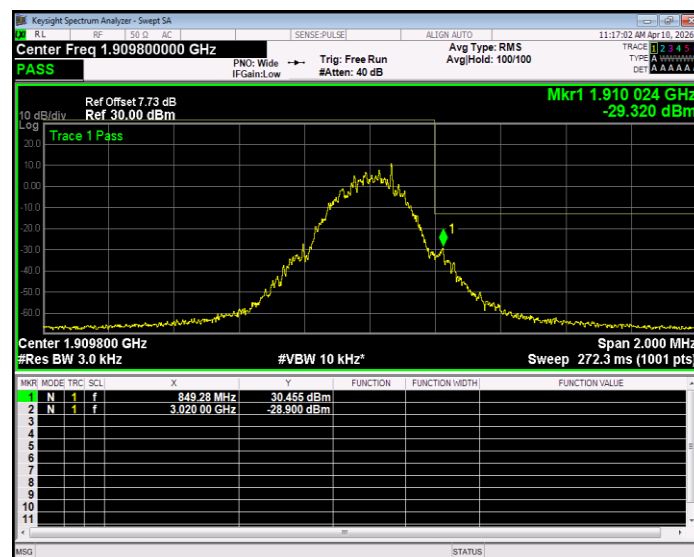
EGPRS850 Channel=251



GSM1900 Channel=512



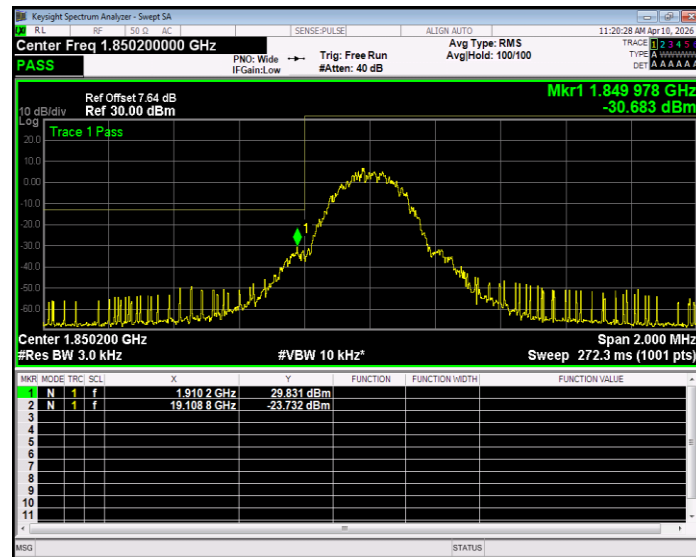
GSM1900 Channel=810



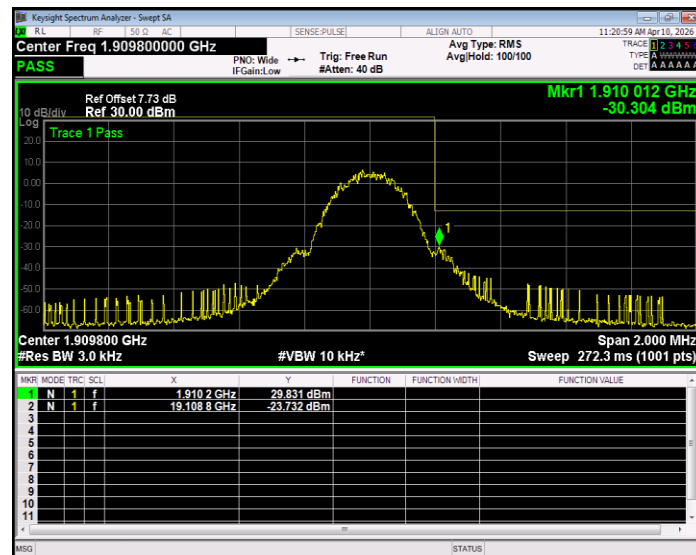


Report

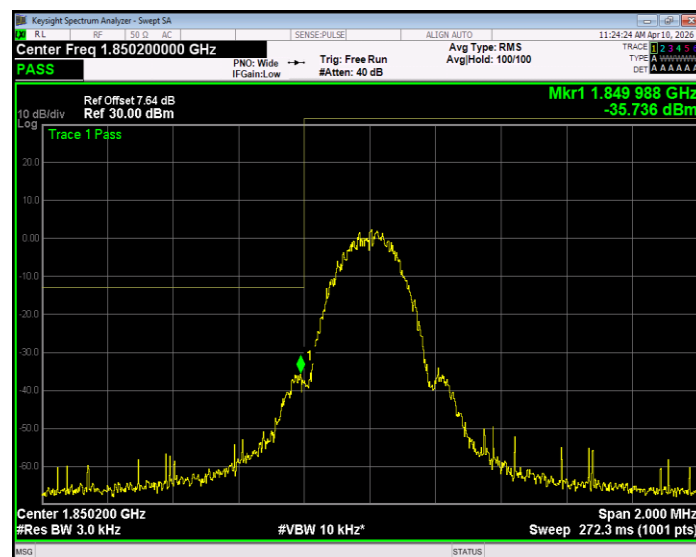
GPRS1900 Channel=512



GPRS1900 Channel=810



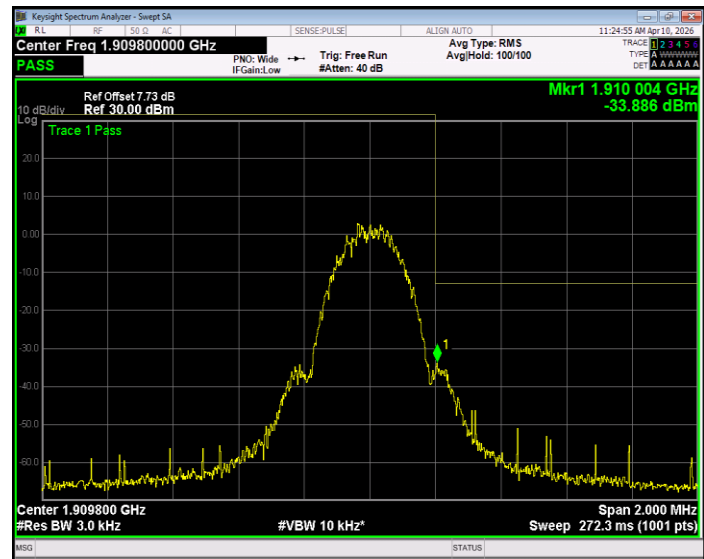
EGPRS1900 Channel=512





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	3309.38	-28.74	-13	PASS
GSM850	190	836.6	3197.97	-28.90	-13	PASS
GSM850	251	848.8	2998.07	-29.29	-13	PASS
GPRS850	128	824.2	2637.65	-28.82	-13	PASS
GPRS850	190	836.6	2781.47	-29.05	-13	PASS
GPRS850	251	848.8	3176.78	-29.22	-13	PASS
EGPRS850	128	824.2	2653.61	-29.20	-13	PASS
EGPRS850	190	836.6	3285.70	-28.61	-13	PASS
EGPRS850	251	848.8	3020.00	-28.89	-13	PASS
GSM1900	512	1850.2	16344.99	-23.97	-13	PASS
GSM1900	661	1880	18814.28	-23.40	-13	PASS
GSM1900	810	1909.8	19108.84	-23.73	-13	PASS
GPRS1900	512	1850.2	19755.37	-22.89	-13	PASS
GPRS1900	661	1880	19379.93	-24.03	-13	PASS
GPRS1900	810	1909.8	19685.97	-23.37	-13	PASS
EGPRS1900	512	1850.2	19867.70	-24.09	-13	PASS
EGPRS1900	661	1880	19716.93	-23.79	-13	PASS
EGPRS1900	810	1909.8	19414.88	-23.81	-13	PASS

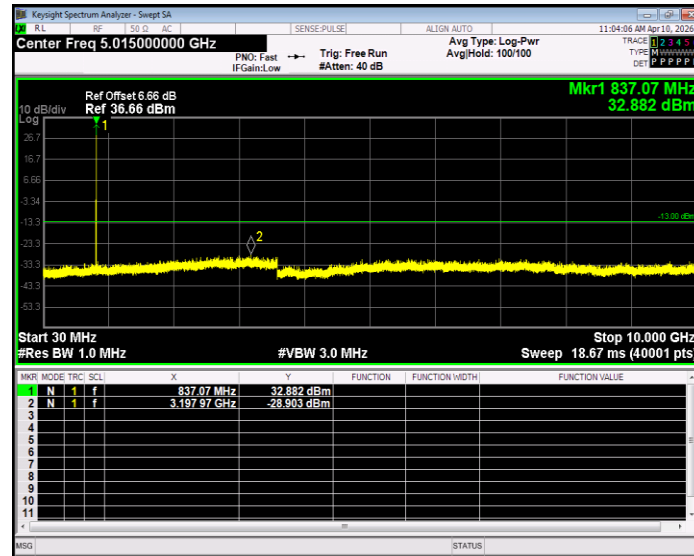
GSM850 Channel=128



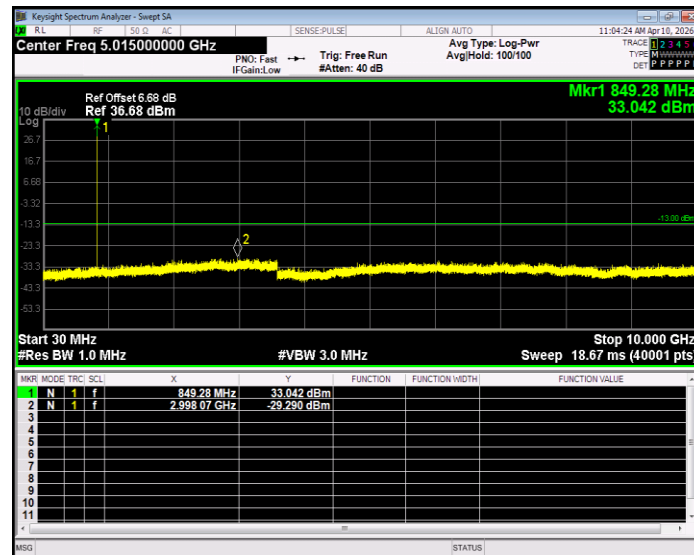
GSM850 Channel=190



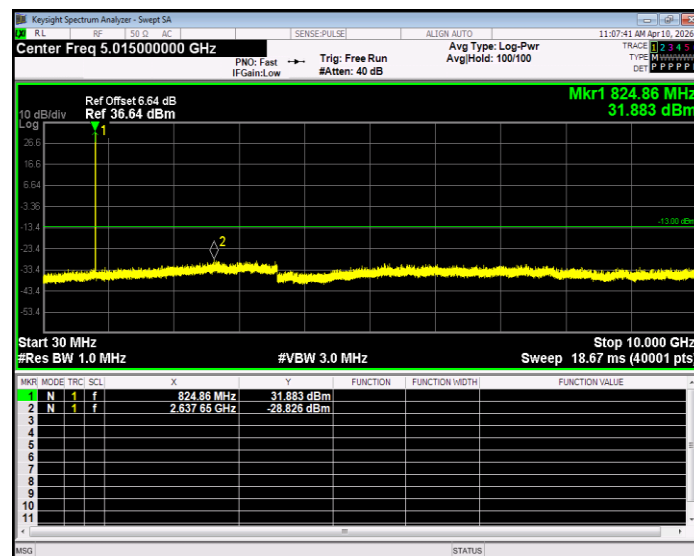
Report



GSM850 Channel=251



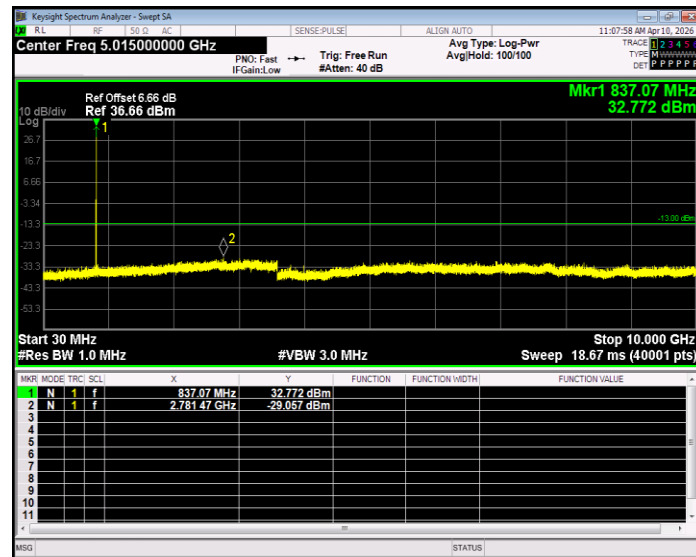
GPRS850 Channel=128



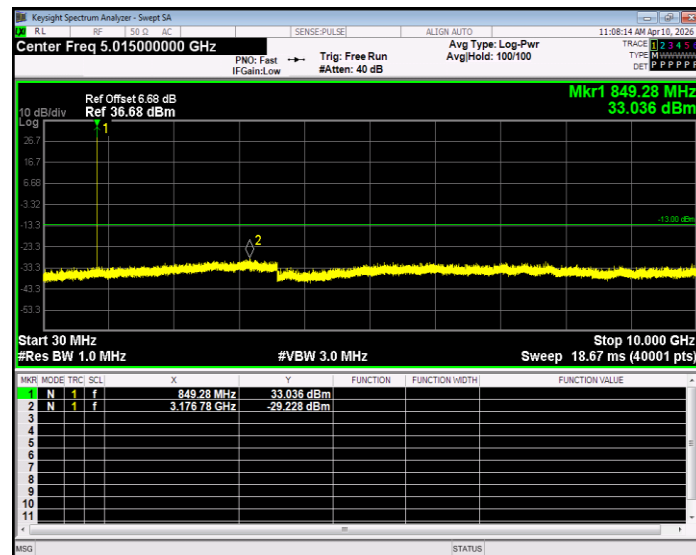


Report

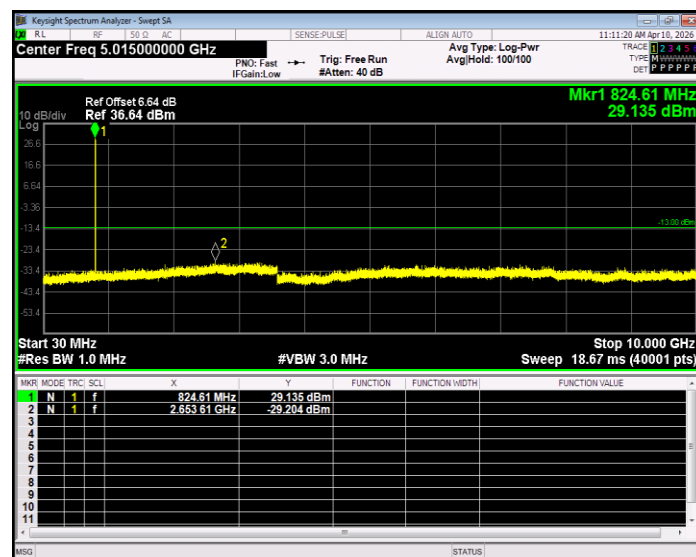
GPRS850 Channel=190



GPRS850 Channel=251



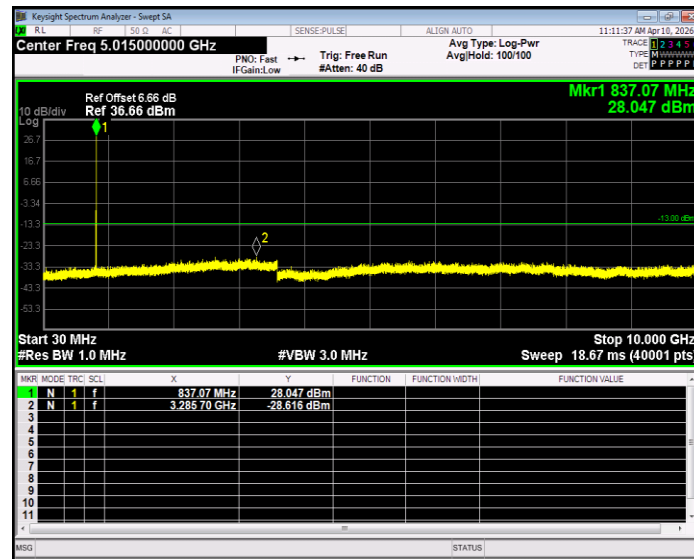
EGPRS850 Channel=128



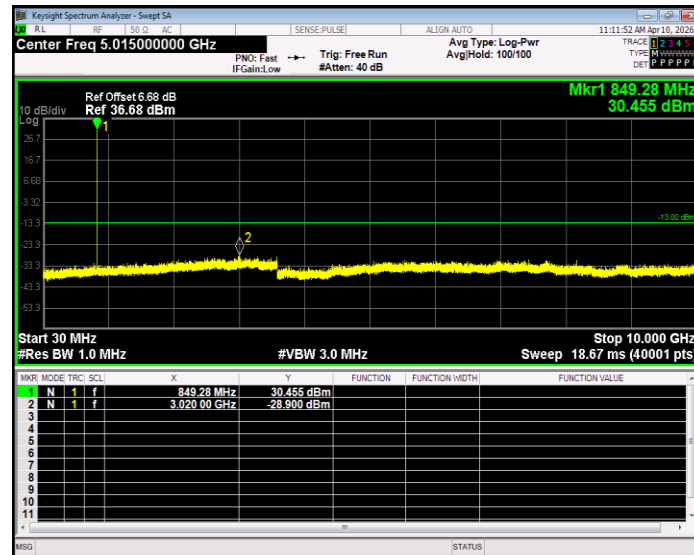


Report

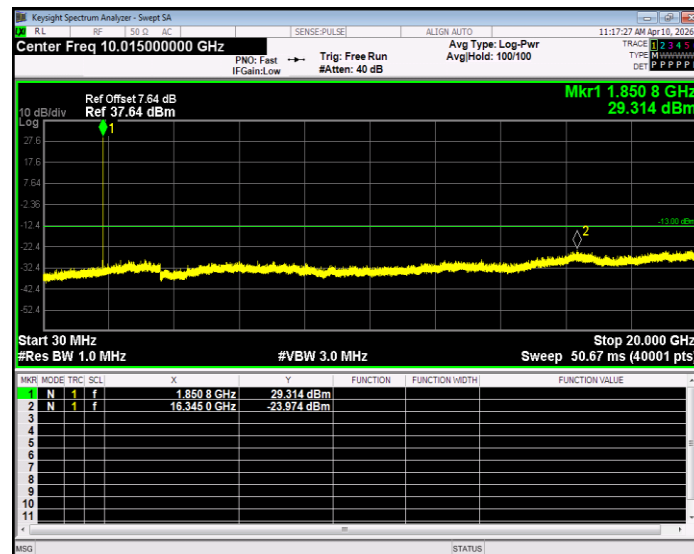
EGPRS850 Channel=190



EGPRS850 Channel=251



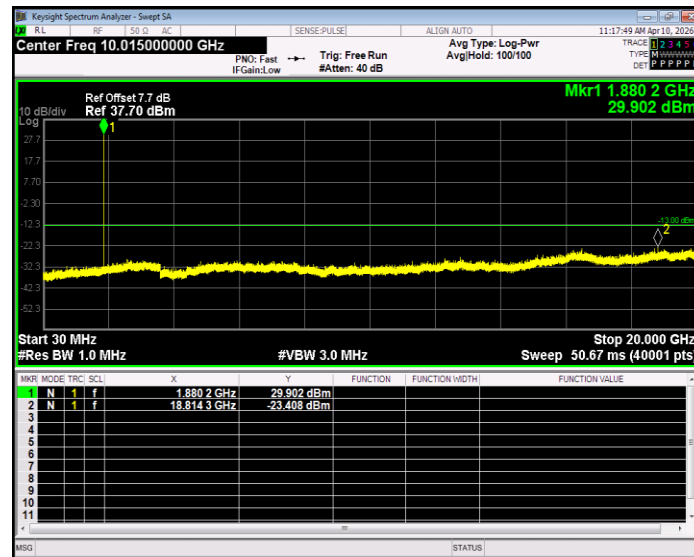
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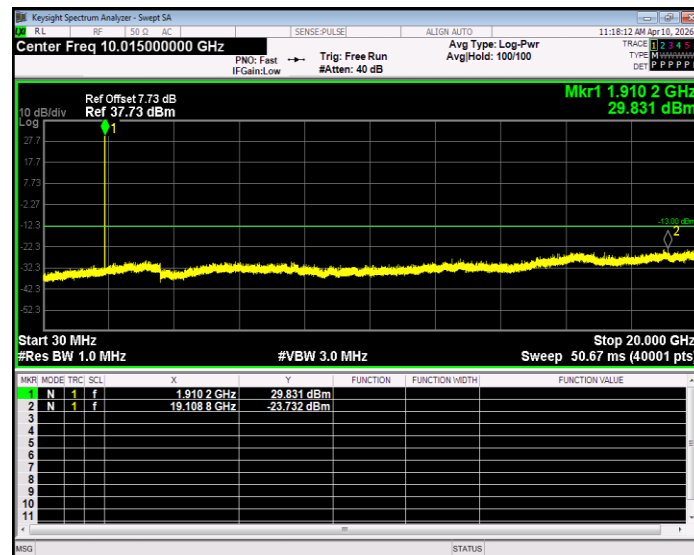


Report

GSM1900 Channel=661



GSM1900 Channel=810



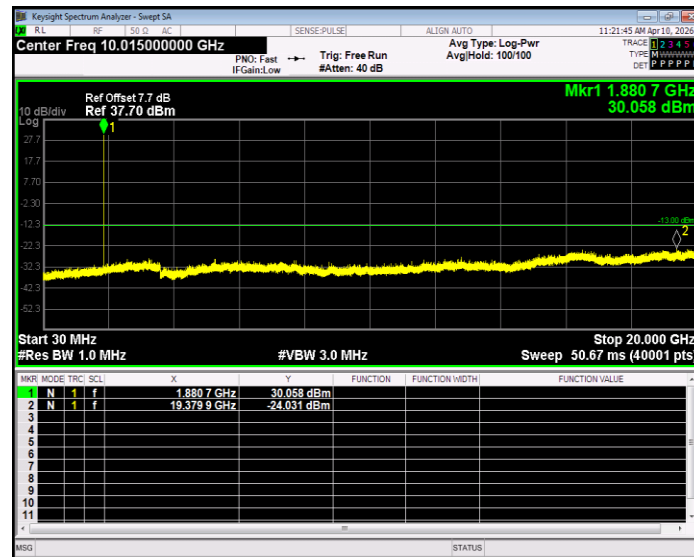
GPRS1900 Channel=512



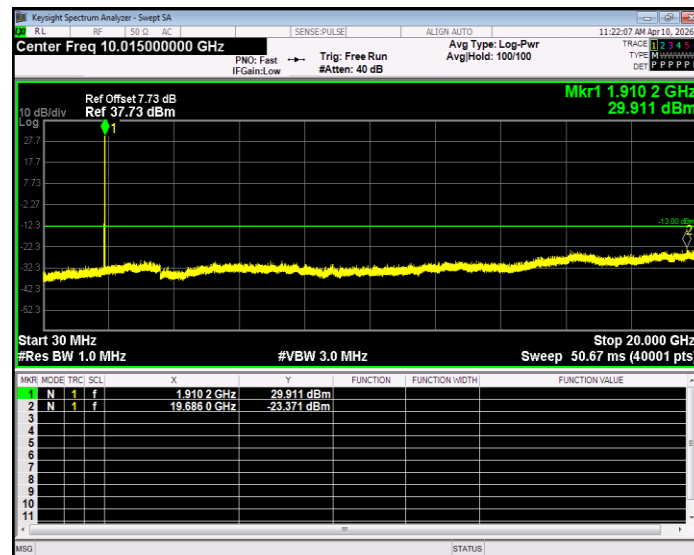


Report

GPRS1900 Channel=661



GPRS1900 Channel=810



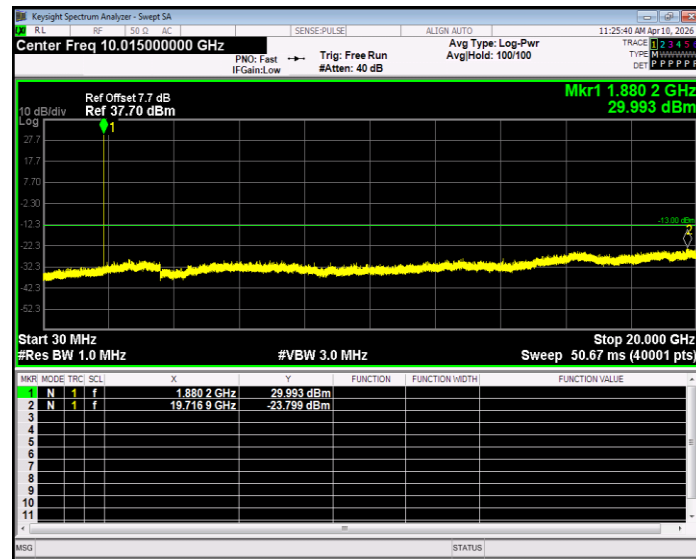
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810

