



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	33.96	-0.87	30.94	38.45	PASS
GSM850	190	836.6	33.99	-0.87	30.97	38.45	PASS
GSM850	251	848.8	34.16	-0.87	31.14	38.45	PASS
GPRS850 1 Slot	128	824.2	33.95	-0.87	30.93	38.45	PASS
GPRS850 1 Slot	190	836.6	33.97	-0.87	30.95	38.45	PASS
GPRS850 1 Slot	251	848.8	34.15	-0.87	31.13	38.45	PASS
GPRS850 2 Slot	128	824.2	33.00	-0.87	29.98	38.45	PASS
GPRS850 2 Slot	190	836.6	33.02	-0.87	30.00	38.45	PASS
GPRS850 2 Slot	251	848.8	33.19	-0.87	30.17	38.45	PASS
GPRS850 3 Slot	128	824.2	31.01	-0.87	27.99	38.45	PASS
GPRS850 3 Slot	190	836.6	31.04	-0.87	28.02	38.45	PASS
GPRS850 3 Slot	251	848.8	31.22	-0.87	28.20	38.45	PASS
GPRS850 4 Slot	128	824.2	29.98	-0.87	26.96	38.45	PASS
GPRS850 4 Slot	190	836.6	29.99	-0.87	26.97	38.45	PASS
GPRS850 4 Slot	251	848.8	30.16	-0.87	27.14	38.45	PASS
EGPRS850 1 Slot	128	824.2	28.05	-0.87	25.03	38.45	PASS
EGPRS850 1 Slot	190	836.6	28.11	-0.87	25.09	38.45	PASS
EGPRS850 1 Slot	251	848.8	27.92	-0.87	24.90	38.45	PASS
EGPRS850 2 Slot	128	824.2	27.31	-0.87	24.29	38.45	PASS
EGPRS850 2 Slot	190	836.6	27.02	-0.87	24.00	38.45	PASS
EGPRS850 2 Slot	251	848.8	26.84	-0.87	23.82	38.45	PASS
EGPRS850 3 Slot	128	824.2	25.38	-0.87	22.36	38.45	PASS
EGPRS850 3 Slot	190	836.6	24.82	-0.87	21.80	38.45	PASS
EGPRS850 3 Slot	251	848.8	24.87	-0.87	21.85	38.45	PASS
EGPRS850 4 Slot	128	824.2	24.04	-0.87	21.02	38.45	PASS
EGPRS850 4 Slot	190	836.6	23.96	-0.87	20.94	38.45	PASS
EGPRS850 4 Slot	251	848.8	23.61	-0.87	20.59	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	30.51	0.47	30.98	33.01	PASS
GSM1900	661	1880	30.60	0.47	31.07	33.01	PASS
GSM1900	810	1909.8	30.30	0.47	30.77	33.01	PASS
GPRS1900 1 Slot	512	1850.2	30.34	0.47	30.81	33.01	PASS
GPRS1900 1 Slot	661	1880	30.35	0.47	30.82	33.01	PASS
GPRS1900 1 Slot	810	1909.8	29.96	0.47	30.43	33.01	PASS
GPRS1900 2 Slot	512	1850.2	29.34	0.47	29.81	33.01	PASS
GPRS1900 2 Slot	661	1880	29.35	0.47	29.82	33.01	PASS
GPRS1900 2 Slot	810	1909.8	28.99	0.47	29.46	33.01	PASS
GPRS1900 3 Slot	512	1850.2	27.38	0.47	27.85	33.01	PASS
GPRS1900 3 Slot	661	1880	27.39	0.47	27.86	33.01	PASS
GPRS1900 3 Slot	810	1909.8	27.05	0.47	27.52	33.01	PASS
GPRS1900 4 Slot	512	1850.2	26.27	0.47	26.74	33.01	PASS
GPRS1900 4 Slot	661	1880	26.30	0.47	26.77	33.01	PASS
GPRS1900 4 Slot	810	1909.8	25.99	0.47	26.46	33.01	PASS
EGPRS1900 1 Slot	512	1850.2	26.21	0.47	26.68	33.01	PASS
EGPRS1900 1 Slot	661	1880	26.33	0.47	26.80	33.01	PASS
EGPRS1900 1 Slot	810	1909.8	26.22	0.47	26.69	33.01	PASS
EGPRS1900 2 Slot	512	1850.2	25.07	0.47	25.54	33.01	PASS
EGPRS1900 2 Slot	661	1880	25.35	0.47	25.82	33.01	PASS
EGPRS1900 2 Slot	810	1909.8	25.05	0.47	25.52	33.01	PASS
EGPRS1900 3 Slot	512	1850.2	23.31	0.47	23.78	33.01	PASS
EGPRS1900 3 Slot	661	1880	23.37	0.47	23.84	33.01	PASS
EGPRS1900 3 Slot	810	1909.8	23.47	0.47	23.94	33.01	PASS
EGPRS1900 4 Slot	512	1850.2	22.50	0.47	22.97	33.01	PASS
EGPRS1900 4 Slot	661	1880	22.26	0.47	22.73	33.01	PASS
EGPRS1900 4 Slot	810	1909.8	22.47	0.47	22.94	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	5.00	0.006	2.5ppm	PASS
40		-4.86	-0.006		
30		4.87	0.006		
20		8.56	0.010		
10		-4.85	-0.006		
0		-5.11	-0.006		
-10		-4.82	-0.006		
-20		4.81	0.006		
-30		5.25	0.006		
20	Maximum Voltage	-5.02	-0.006		
20	BEP	5.12	0.006		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-2.20	-0.003	2.5ppm	PASS
40		2.59	0.003		
30		2.26	0.003		
20		3.10	0.004		
10		2.37	0.003		
0		2.25	0.003		
-10		2.58	0.003		
-20		2.11	0.003		
-30		2.13	0.003		
20	Maximum Voltage	2.27	0.003		
20	BEP	-2.20	-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	2.58	0.003	2.5ppm	PASS
40		-3.00	-0.004		
30		-2.92	-0.003		
20		3.81	0.005		
10		2.56	0.003		
0		-2.90	-0.003		
-10		-2.83	-0.003		
-20		2.53	0.003		
-30		-2.48	-0.003		
20	Maximum Voltage	-2.65	-0.003		
20	BEP	-2.76	-0.003		

GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-10.70	-0.006	Within Authorized Band	PASS
40		10.64	0.006		
30		-10.81	-0.006		
20		20.05	0.011		
10		10.78	0.006		
0		-10.56	-0.006		
-10		10.83	0.006		
-20		11.04	0.006		
-30		-10.67	-0.006		
20	Maximum Voltage	-10.66	-0.006		
20	BEP	10.92	0.006		



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GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-10.07	-0.005	Within Authorized Band	PASS
40		9.68	0.005		
30		-10.12	-0.005		
20		18.27	0.010		
10		-10.17	-0.005		
0		-9.84	-0.005		
-10		-9.68	-0.005		
-20		9.89	0.005		
-30		-9.66	-0.005		
20	Maximum Voltage	-9.67	-0.005		
20	BEP	-10.08	-0.005		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	5.10	0.003	Within Authorized Band	PASS
40		-5.07	-0.003		
30		-5.16	-0.003		
20		9.01	0.005		
10		-5.12	-0.003		
0		5.49	0.003		
-10		5.14	0.003		
-20		5.39	0.003		
-30		-5.32	-0.003		
20	Maximum Voltage	5.44	0.003		
20	BEP	5.42	0.003		

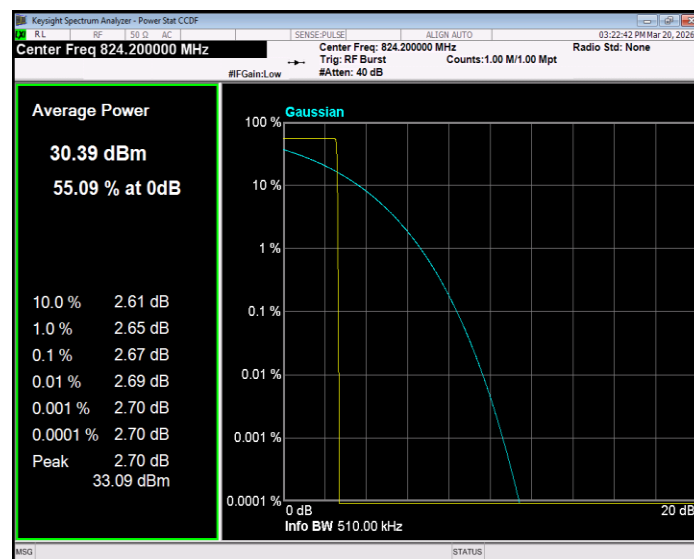


Report

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	2.67	13	PASS
GSM850	251	848.8	2.68	13	PASS
GPRS850	128	824.2	2.70	13	PASS
GPRS850	190	836.6	2.71	13	PASS
GPRS850	251	848.8	2.71	13	PASS
EGPRS850	128	824.2	8.55	13	PASS
EGPRS850	190	836.6	8.10	13	PASS
EGPRS850	251	848.8	9.33	13	PASS
GSM1900	512	1850.2	2.74	13	PASS
GSM1900	661	1880	2.74	13	PASS
GSM1900	810	1909.8	2.73	13	PASS
GPRS1900	512	1850.2	2.72	13	PASS
GPRS1900	661	1880	2.71	13	PASS
GPRS1900	810	1909.8	2.71	13	PASS
EGPRS1900	512	1850.2	7.36	13	PASS
EGPRS1900	661	1880	6.81	13	PASS
EGPRS1900	810	1909.8	6.81	13	PASS

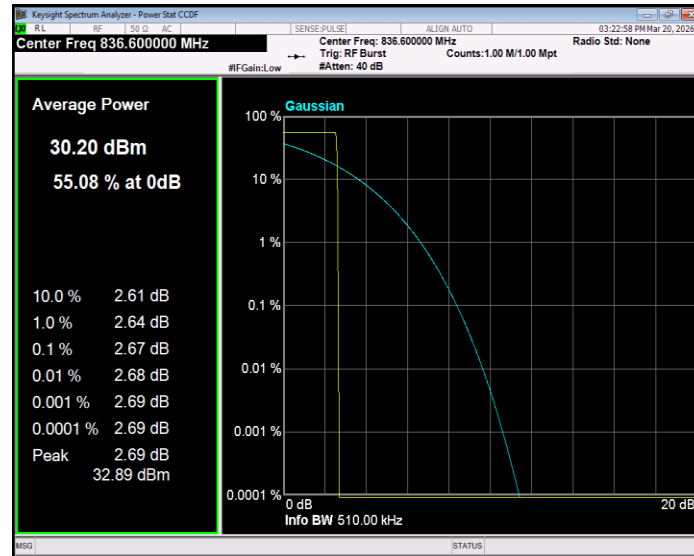
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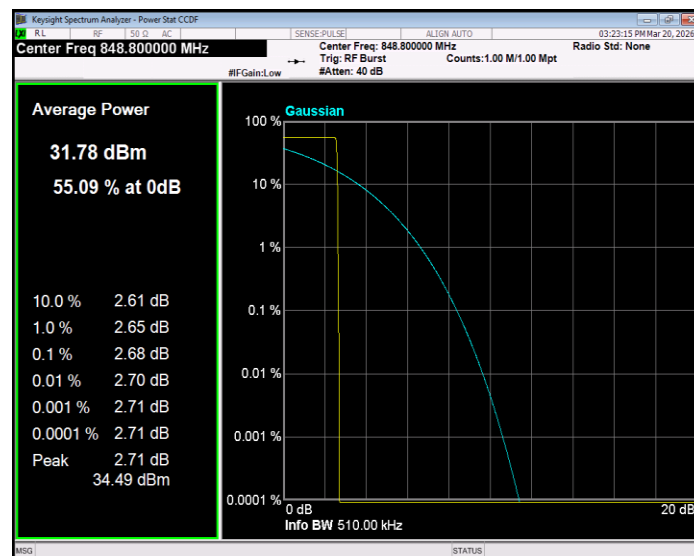
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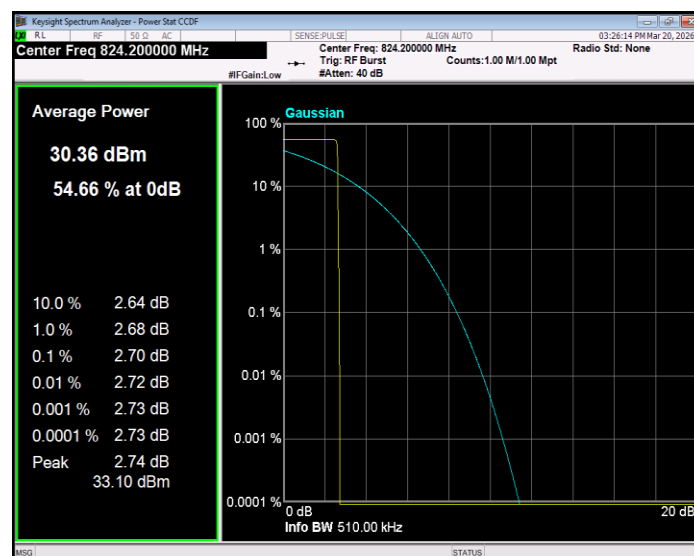
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GSM850 Channel=251



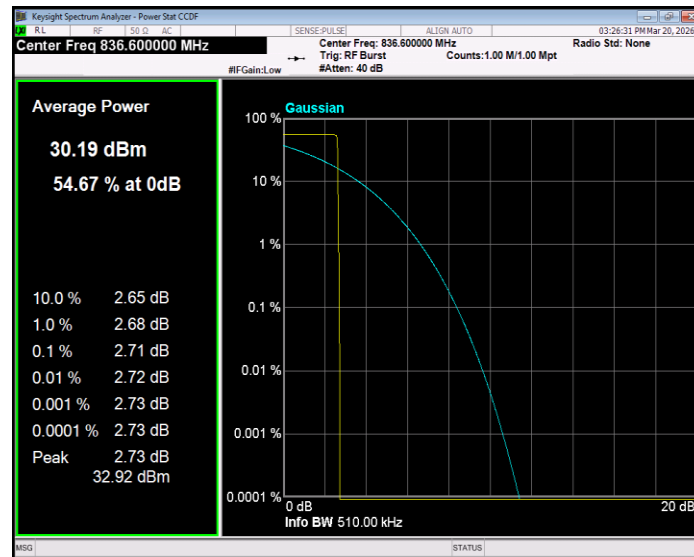
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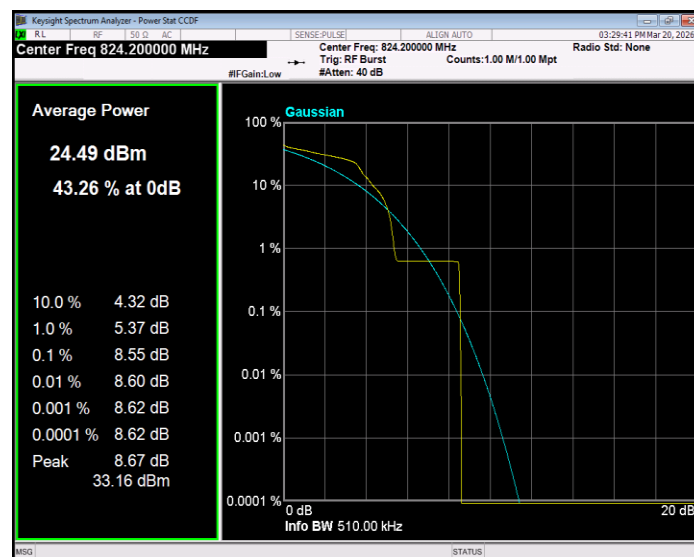
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GPRS850 Channel=251



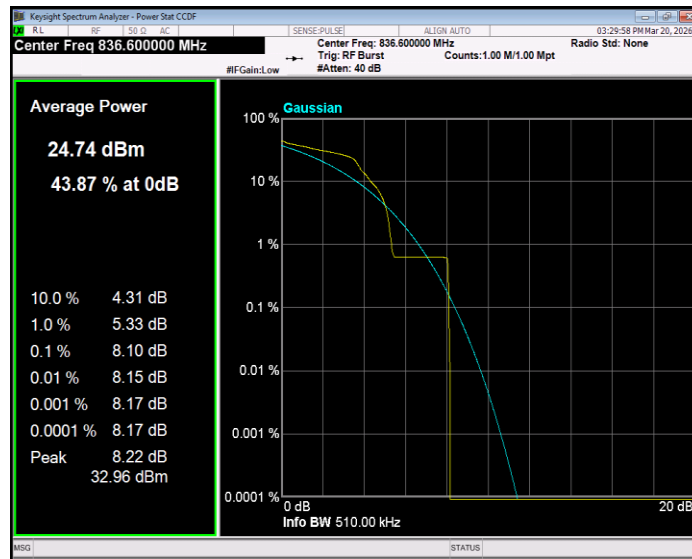
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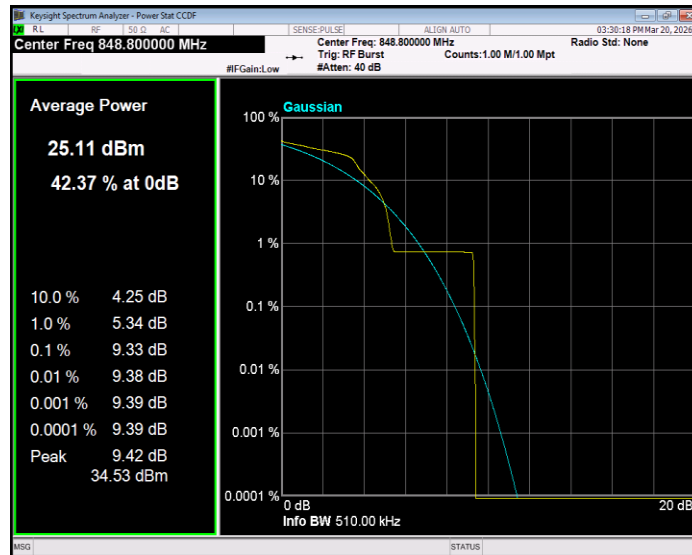


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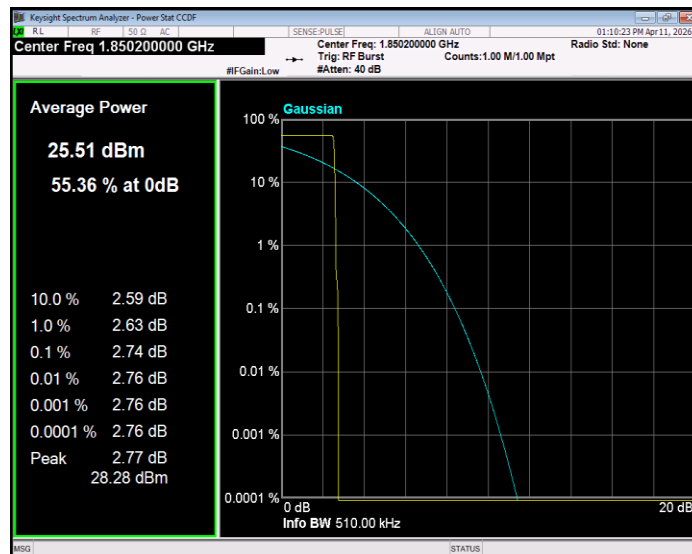
EGPRS850 Channel=190



EGPRS850 Channel=251



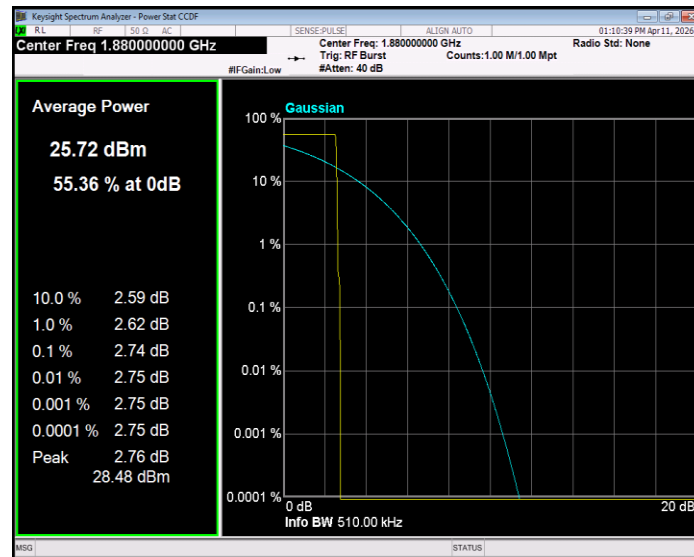
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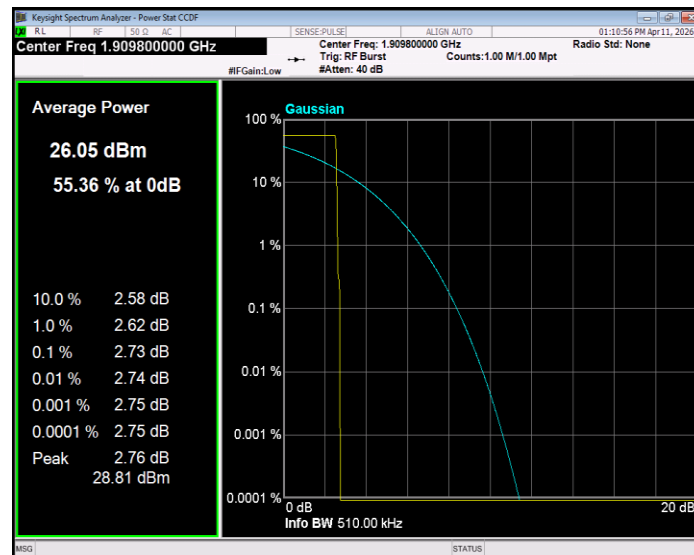


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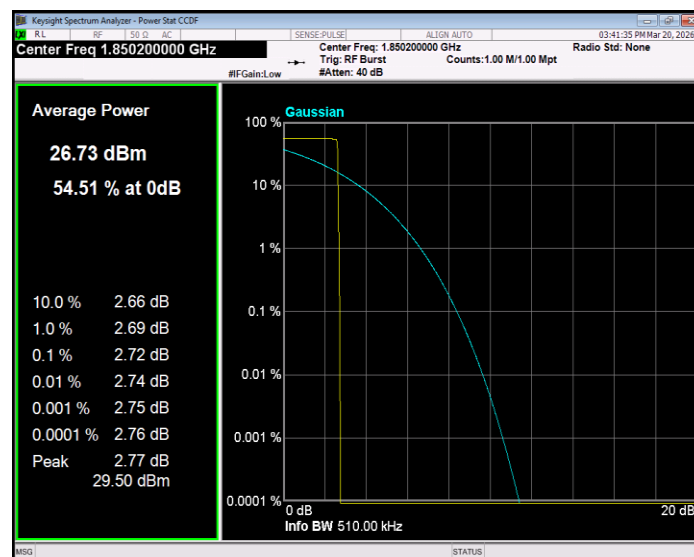
GSM1900 Channel=661



GSM1900 Channel=810



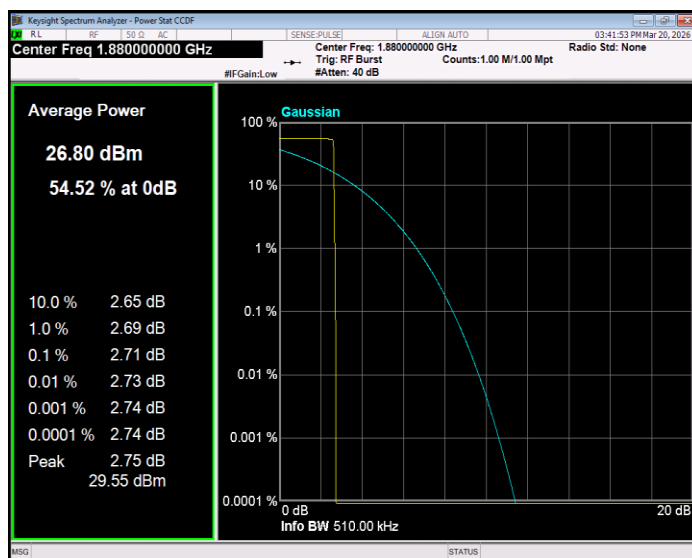
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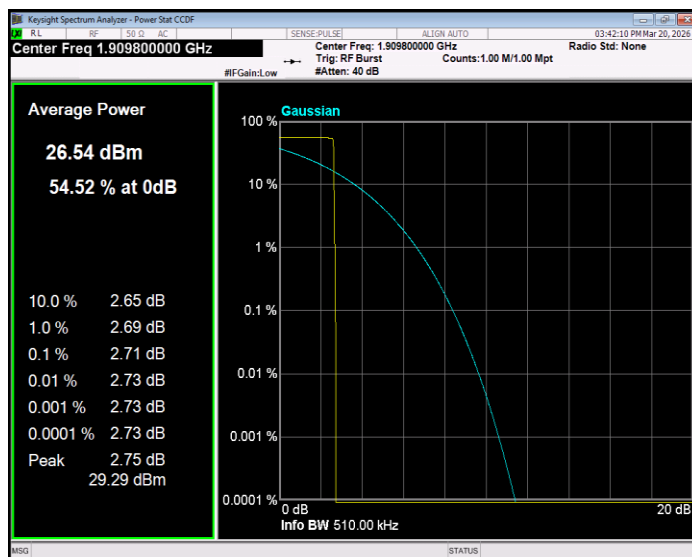


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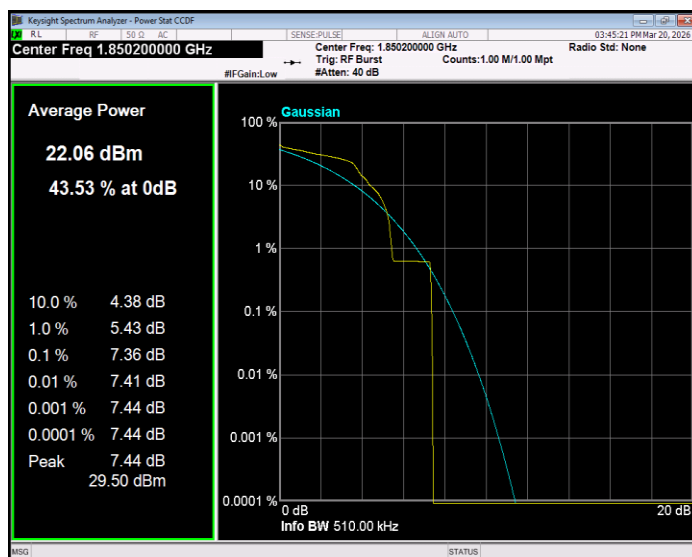
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GPRS1900 Channel=810



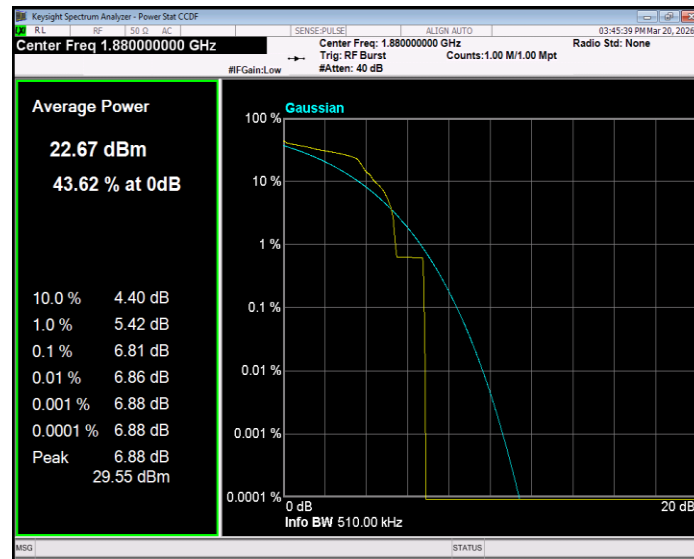
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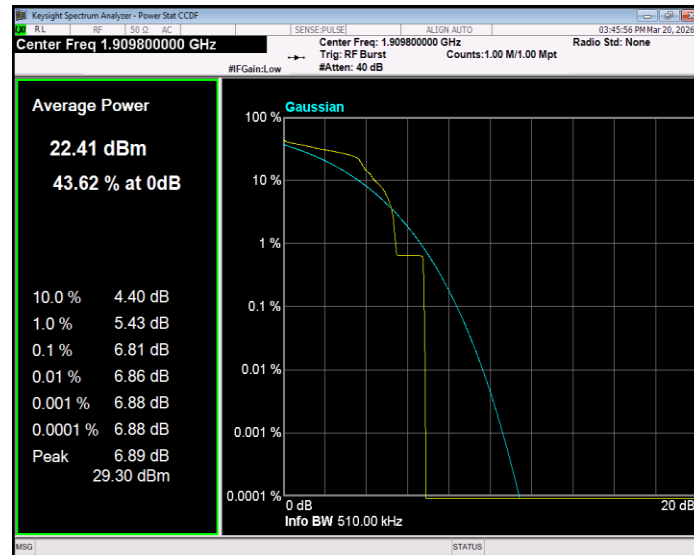


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



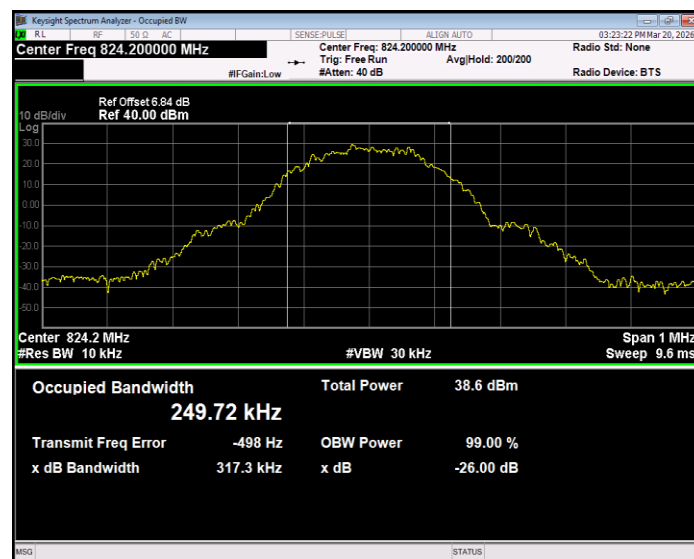


Report

Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	249.717	317.293	PASS
GSM850	190	836.6	246.440	315.379	PASS
GSM850	251	848.8	244.860	312.384	PASS
GPRS850	128	824.2	244.004	316.260	PASS
GPRS850	190	836.6	248.610	311.856	PASS
GPRS850	251	848.8	246.193	320.136	PASS
EGPRS850	128	824.2	251.346	324.360	PASS
EGPRS850	190	836.6	243.690	300.930	PASS
EGPRS850	251	848.8	256.587	327.362	PASS
GSM1900	512	1850.2	250.665	329.113	PASS
GSM1900	661	1880	247.972	316.641	PASS
GSM1900	810	1909.8	248.067	321.425	PASS
GPRS1900	512	1850.2	245.152	320.715	PASS
GPRS1900	661	1880	236.321	324.615	PASS
GPRS1900	810	1909.8	243.974	326.726	PASS
EGPRS1900	512	1850.2	252.651	331.221	PASS
EGPRS1900	661	1880	251.866	331.759	PASS
EGPRS1900	810	1909.8	246.720	316.772	PASS

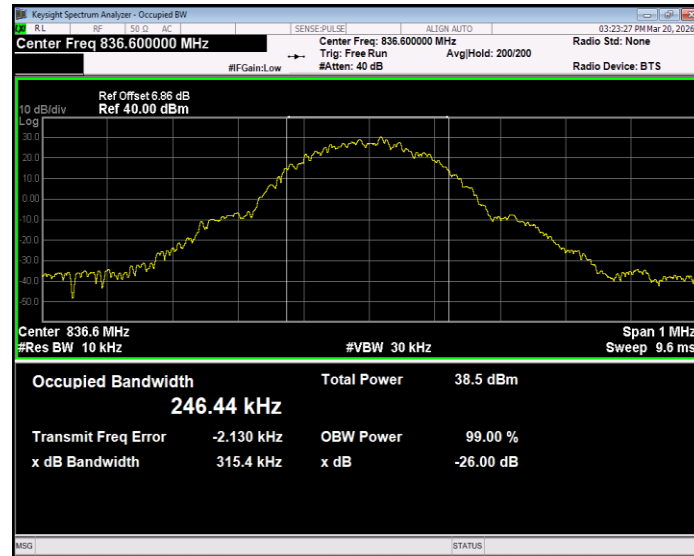
GSM850 Channel=128



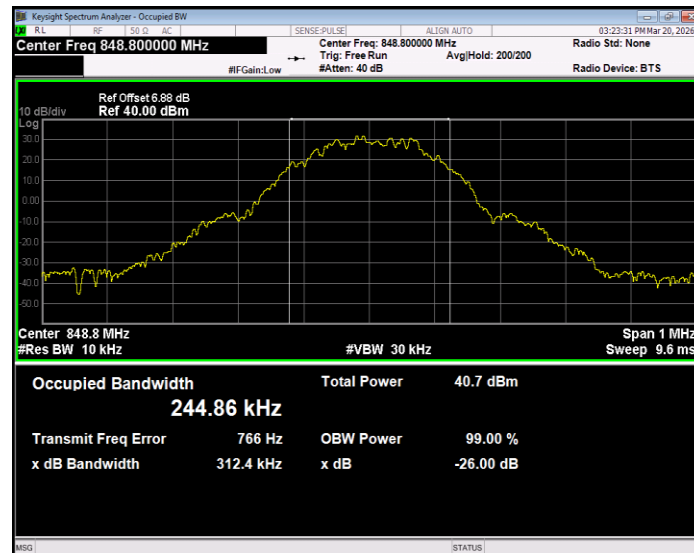
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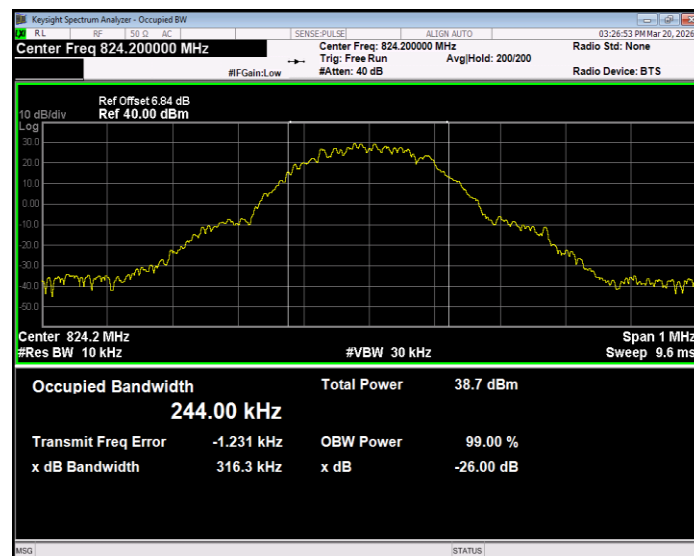
Report



GSM850 Channel=251



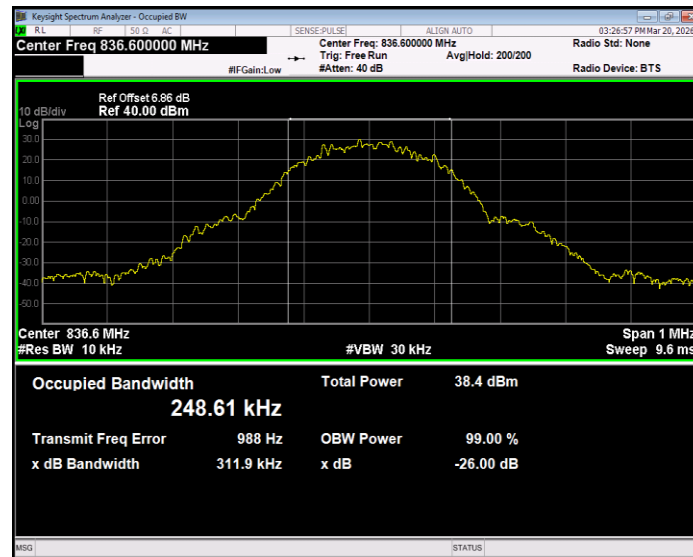
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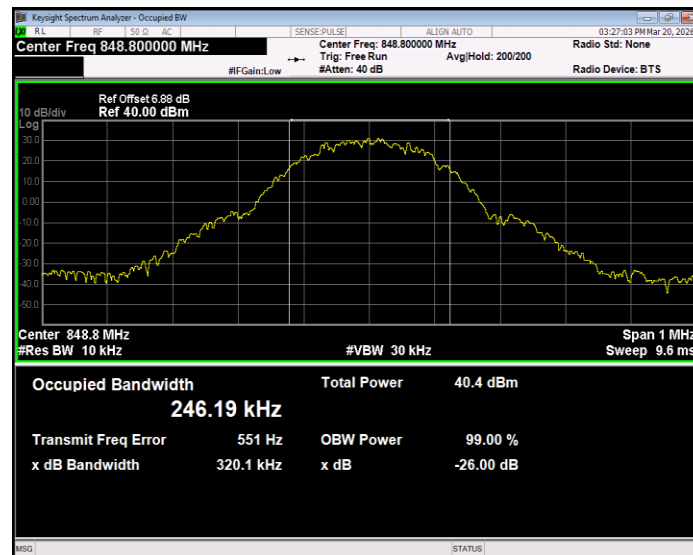


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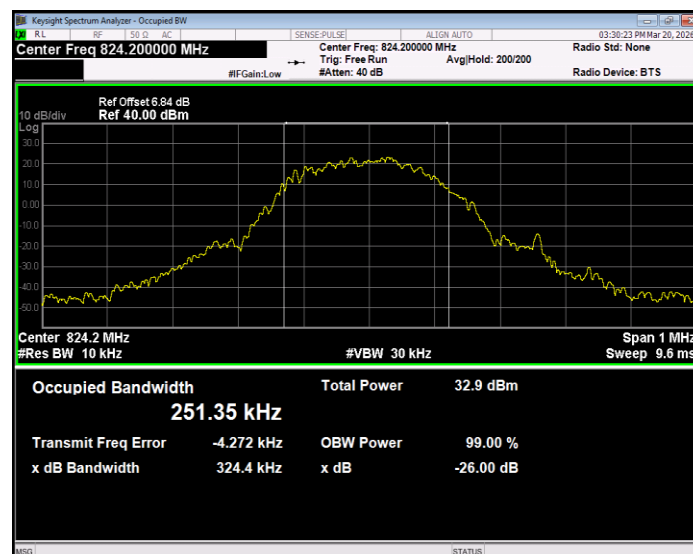
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GPRS850 Channel=251



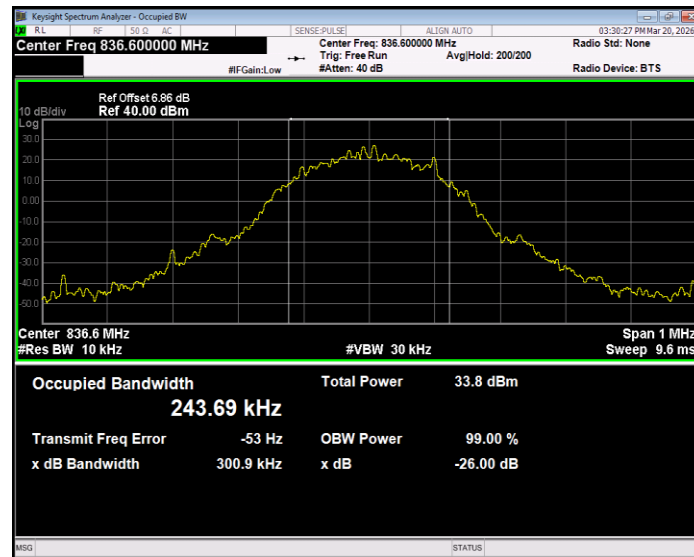
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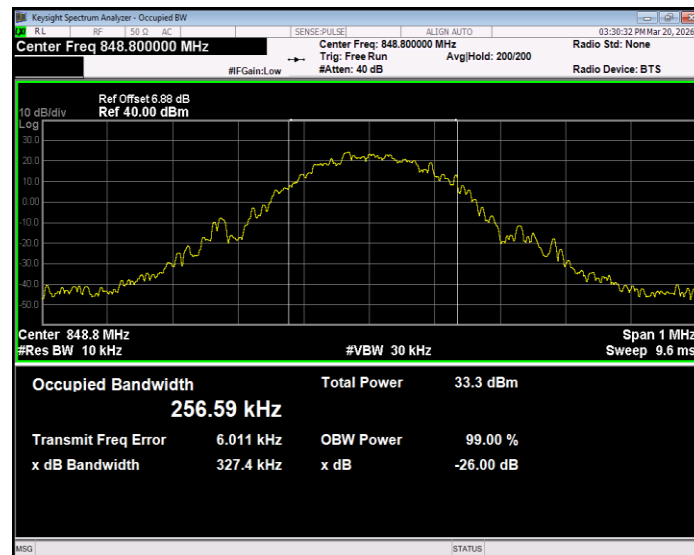


Report

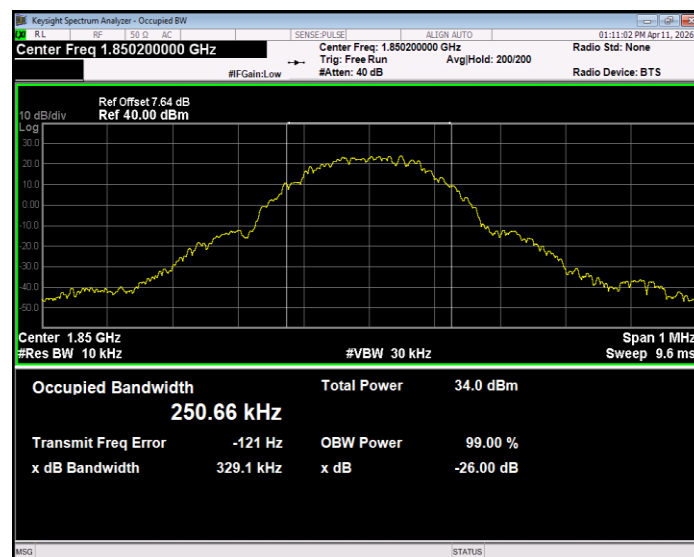
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EGPRS850 Channel=251



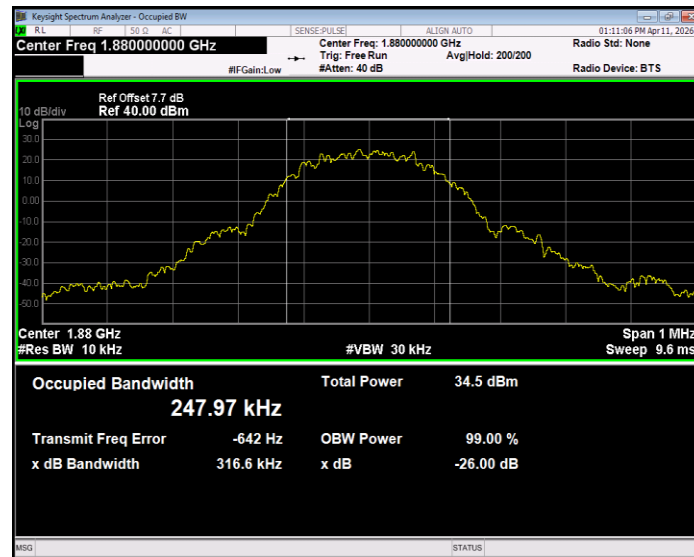
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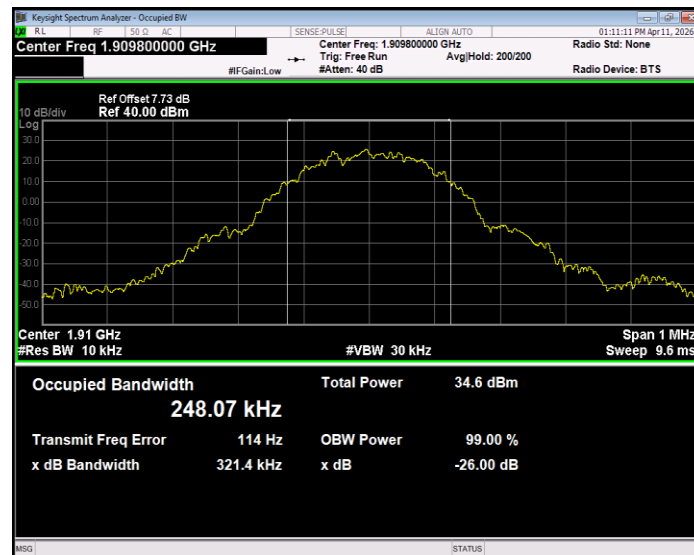


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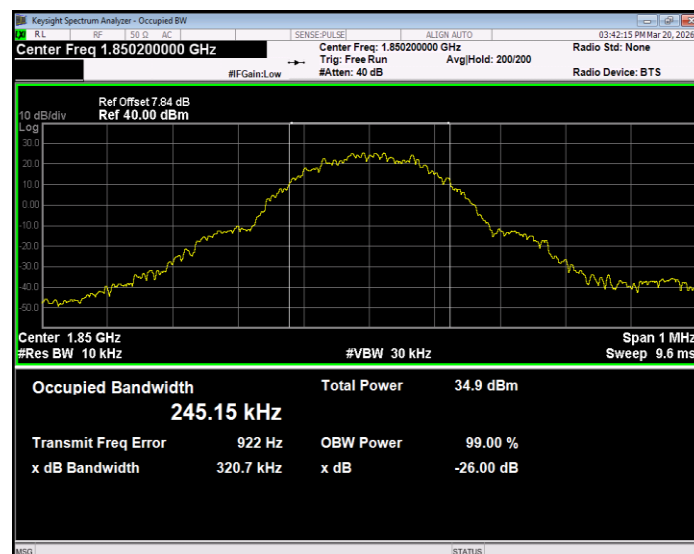
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GSM1900 Channel=810



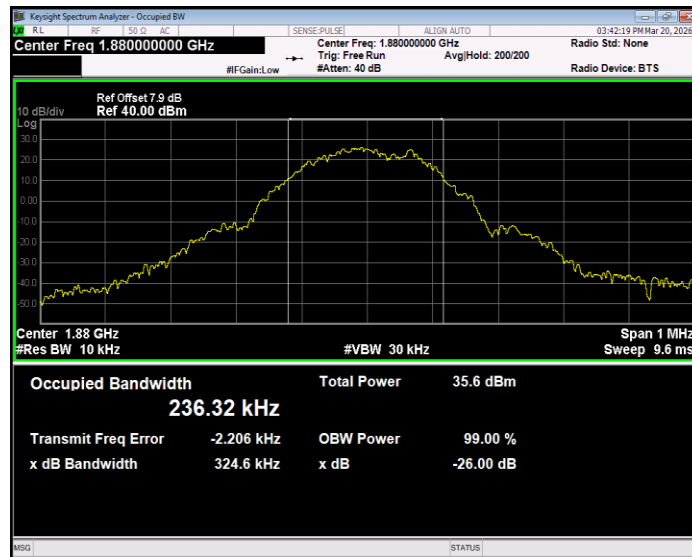
GPRS1900 Channel=512



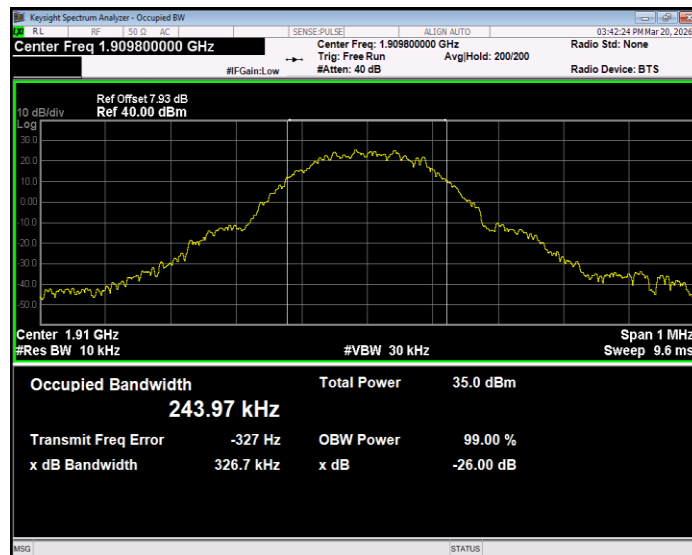


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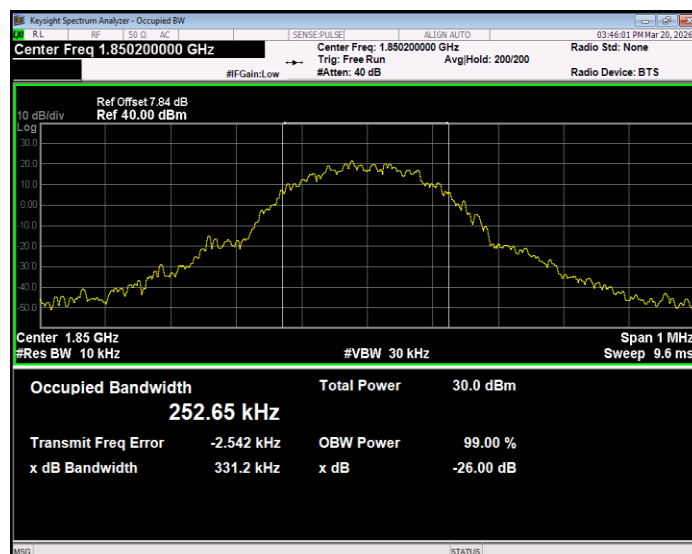
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GPRS1900 Channel=810



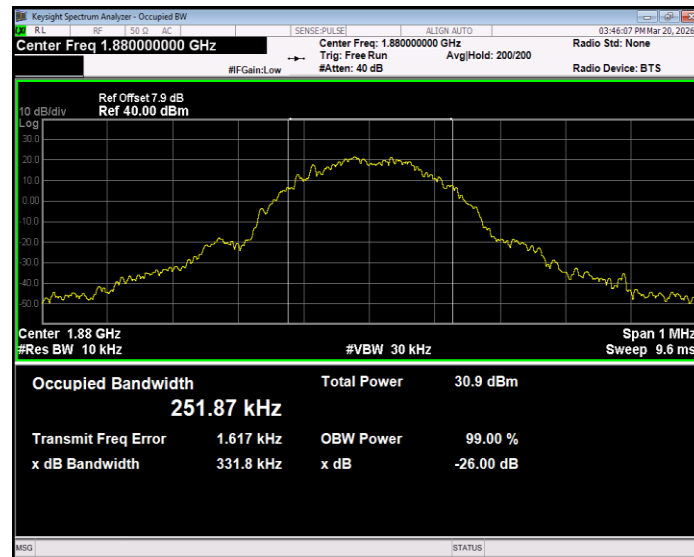
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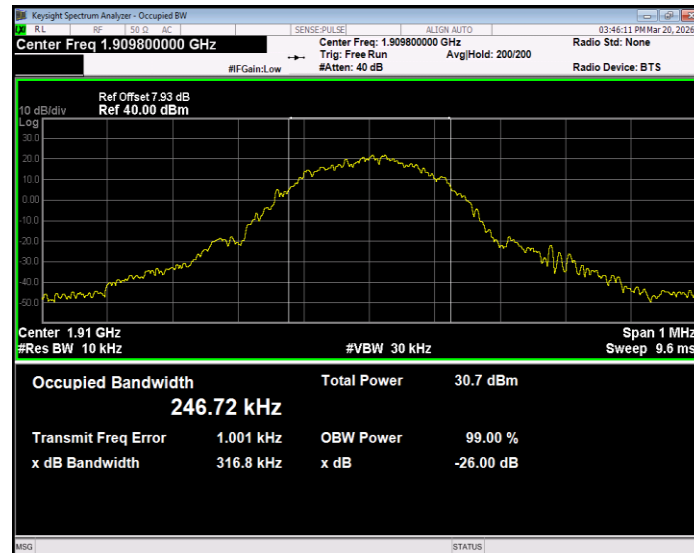


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



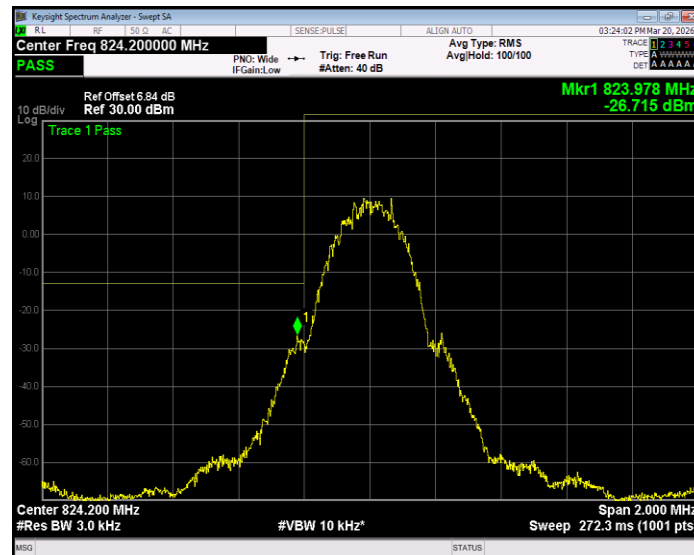


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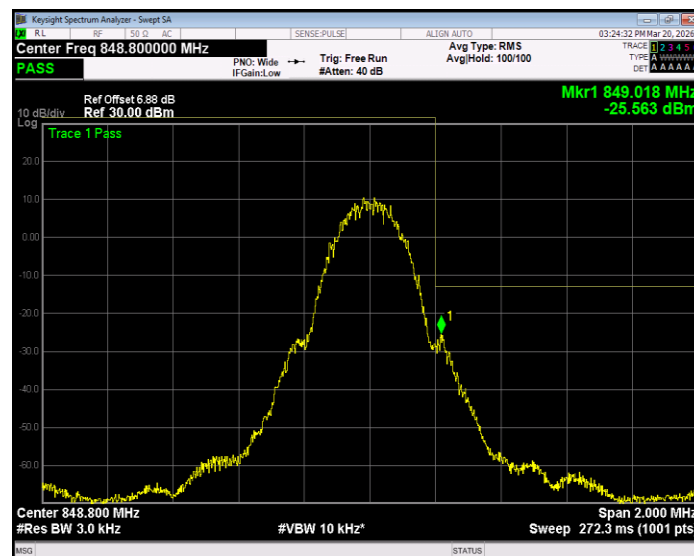
Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	823.98	-26.71	-13	PASS
GSM850	251	848.8	849.02	-25.56	-13	PASS
GPRS850	128	824.2	823.99	-27.42	-13	PASS
GPRS850	251	848.8	849.03	-26.04	-13	PASS
EGPRS850	128	824.2	823.97	-34.54	-13	PASS
EGPRS850	251	848.8	849.03	-35.04	-13	PASS
GSM1900	512	1850.2	1849.98	-31.84	-13	PASS
GSM1900	810	1909.8	1910.02	-30.29	-13	PASS
GPRS1900	512	1850.2	1849.98	-31.37	-13	PASS
GPRS1900	810	1909.8	1910.02	-29.98	-13	PASS
EGPRS1900	512	1850.2	1849.97	-37.60	-13	PASS
EGPRS1900	810	1909.8	1910.00	-38.75	-13	PASS

GSM850 Channel=128



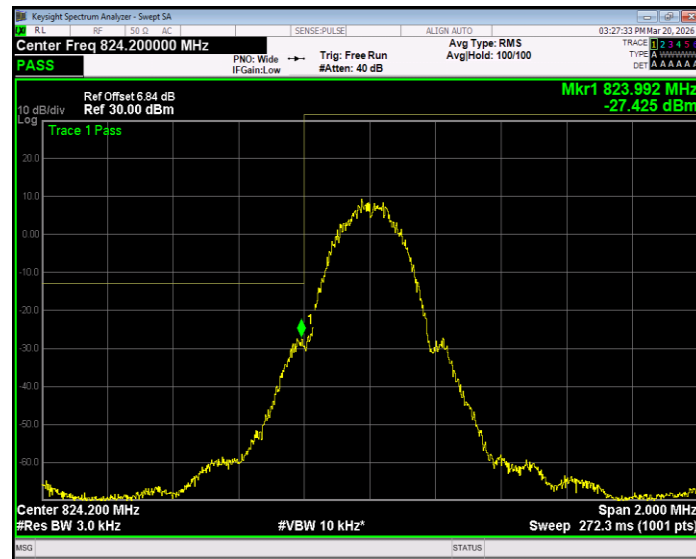
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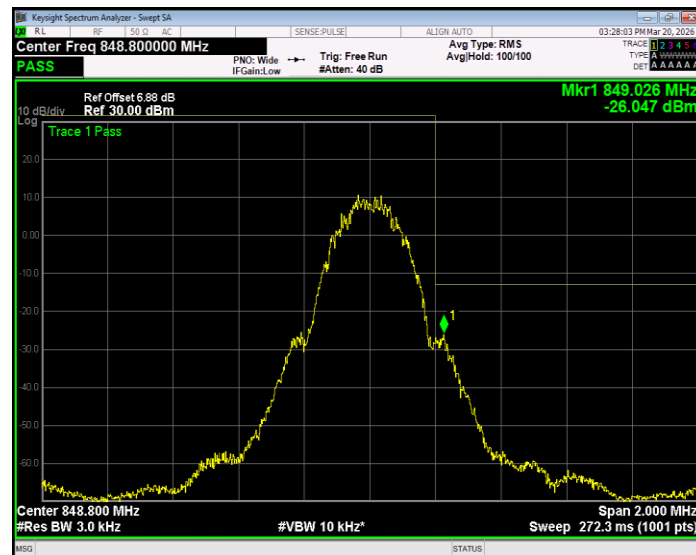


Report

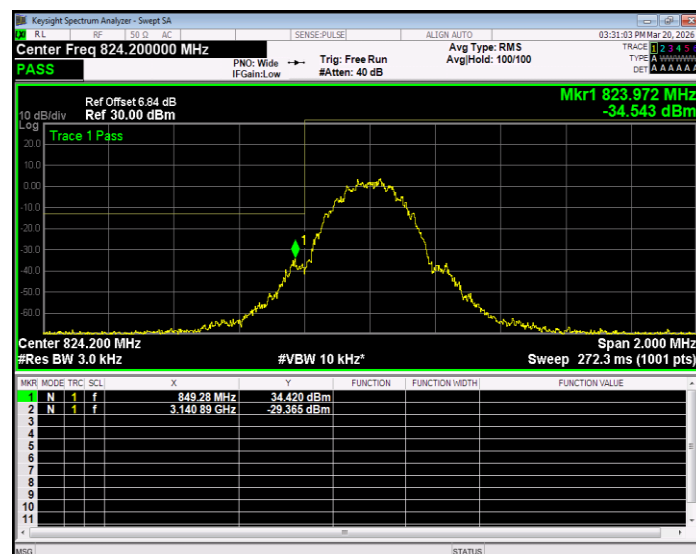
GPRS850 Channel=128



GPRS850 Channel=251



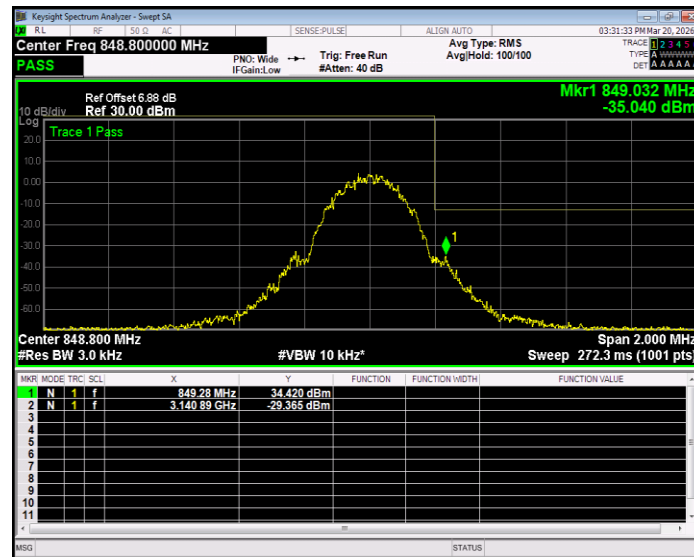
EGPRS850 Channel=128



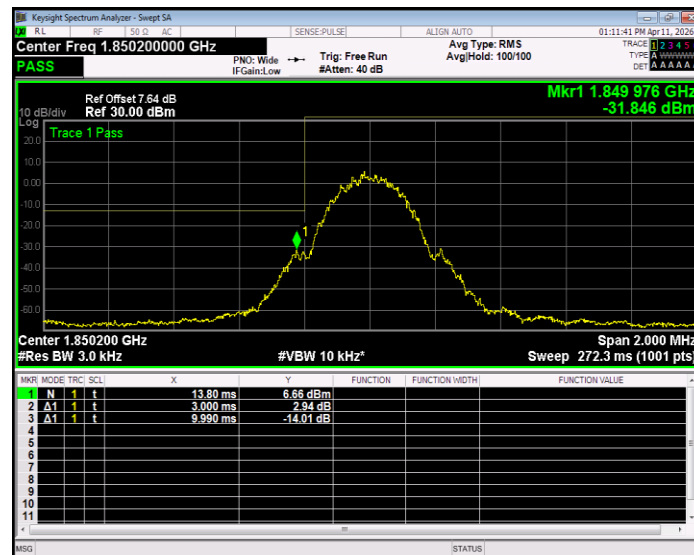


Report

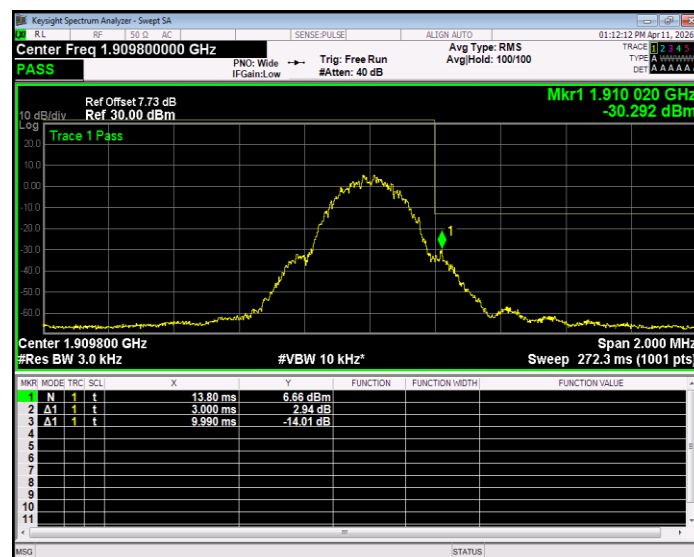
EGPRS850 Channel=251



GSM1900 Channel=512



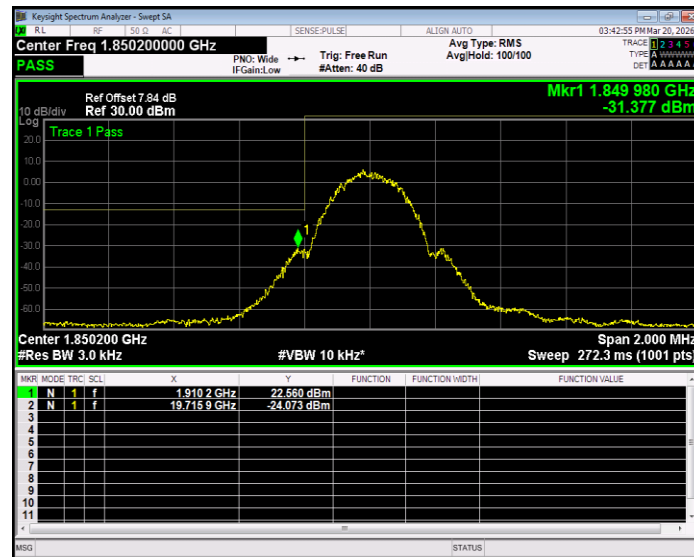
GSM1900 Channel=810



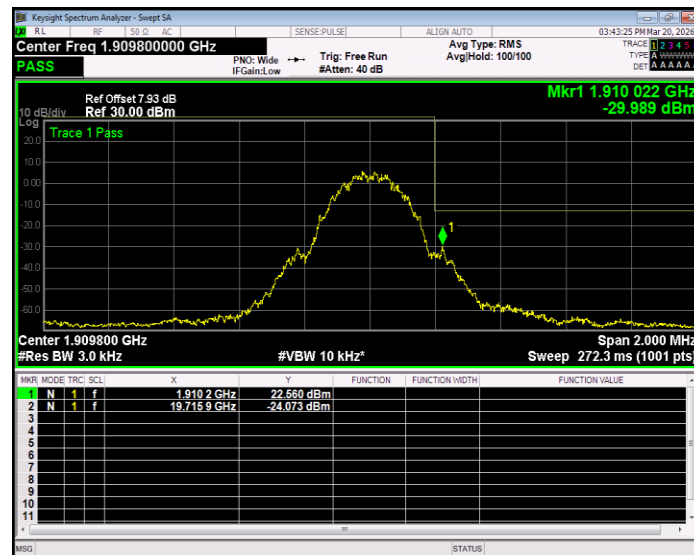


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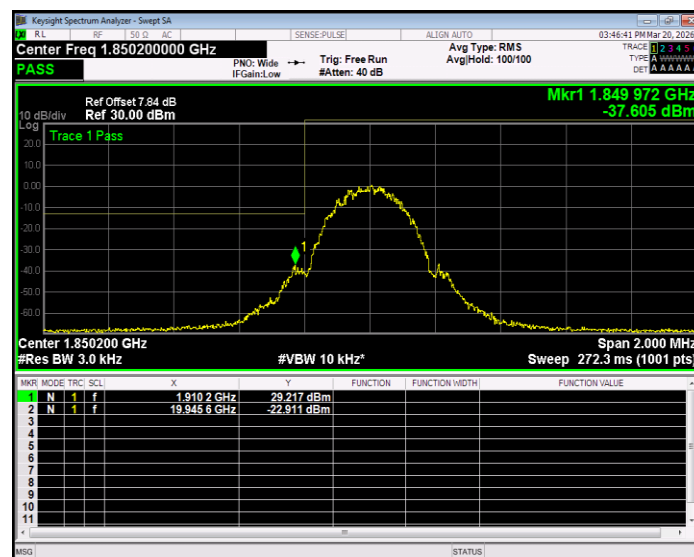
GPRS1900 Channel=512



GPRS1900 Channel=810



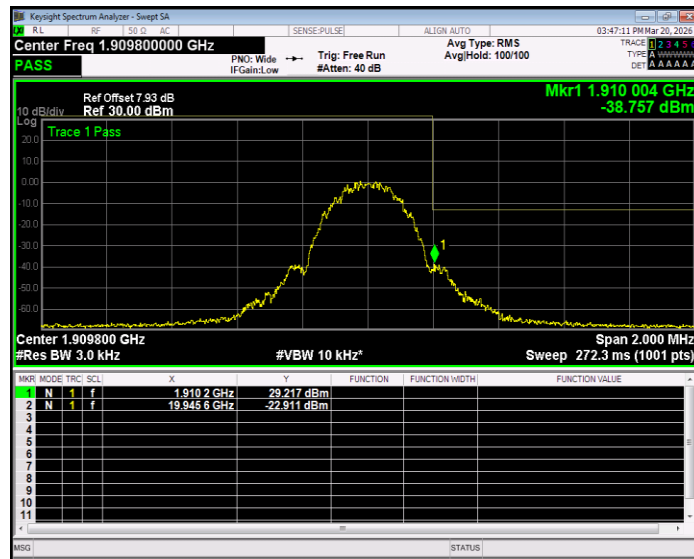
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=810



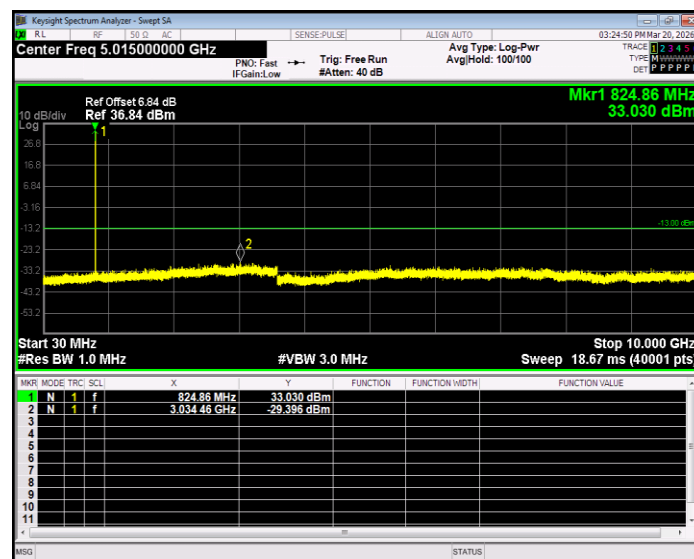


Report

Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	3034.46	-29.39	-13	PASS
GSM850	190	836.6	3379.42	-29.10	-13	PASS
GSM850	251	848.8	2635.66	-29.04	-13	PASS
GPRS850	128	824.2	3158.34	-29.19	-13	PASS
GPRS850	190	836.6	3167.06	-29.38	-13	PASS
GPRS850	251	848.8	3140.89	-29.36	-13	PASS
EGPRS850	128	824.2	3096.02	-29.62	-13	PASS
EGPRS850	190	836.6	2489.10	-29.52	-13	PASS
EGPRS850	251	848.8	2625.94	-28.98	-13	PASS
GSM1900	512	1850.2	19076.39	-23.45	-13	PASS
GSM1900	661	1880	19976.04	-23.20	-13	PASS
GSM1900	810	1909.8	19850.72	-24.04	-13	PASS
GPRS1900	512	1850.2	18940.09	-23.28	-13	PASS
GPRS1900	661	1880	18970.05	-23.87	-13	PASS
GPRS1900	810	1909.8	19945.58	-22.91	-13	PASS
EGPRS1900	512	1850.2	18991.02	-24.03	-13	PASS
EGPRS1900	661	1880	18999.00	-23.55	-13	PASS
EGPRS1900	810	1909.8	19426.36	-24.06	-13	PASS

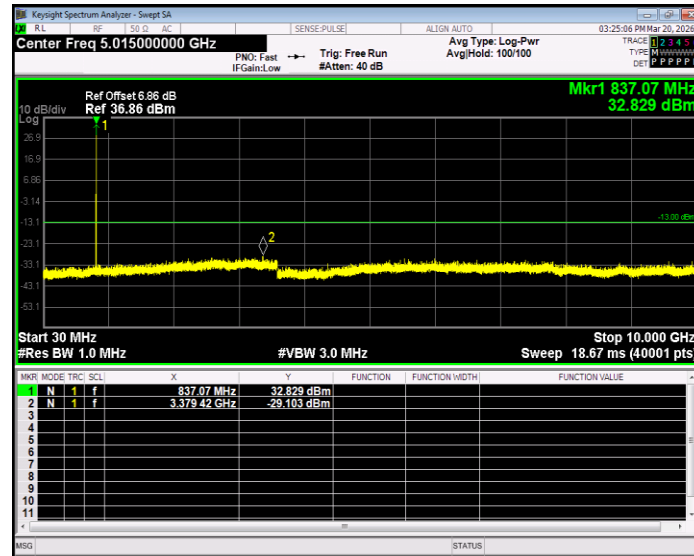
GSM850 Channel=128



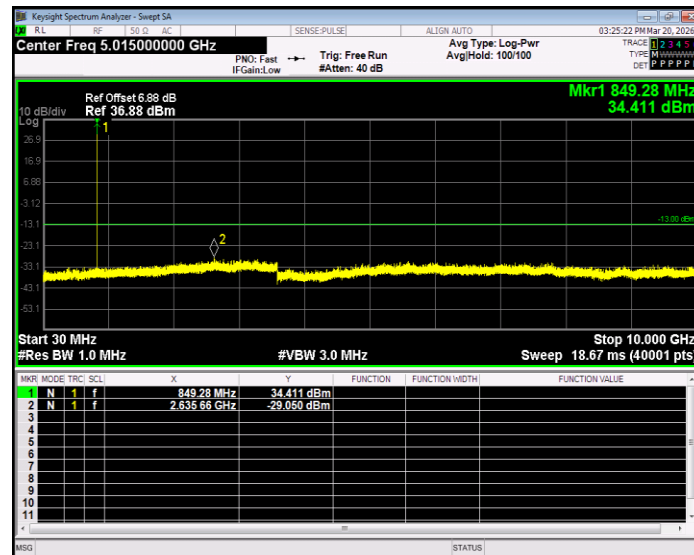
GSM850 Channel=190



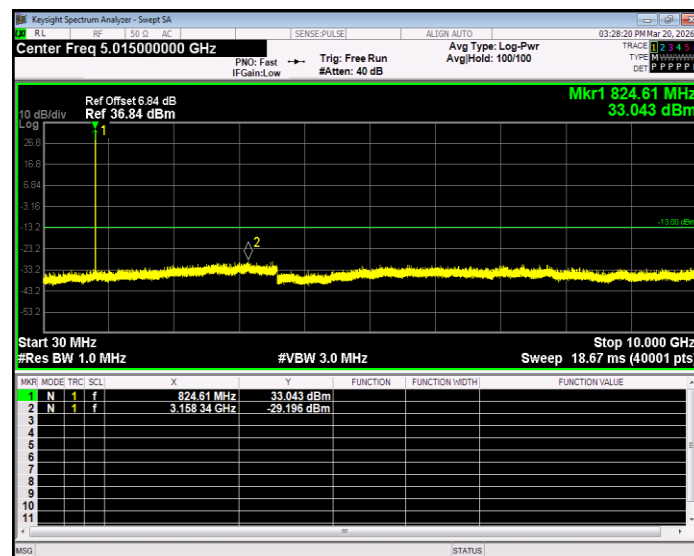
Report



GSM850 Channel=251



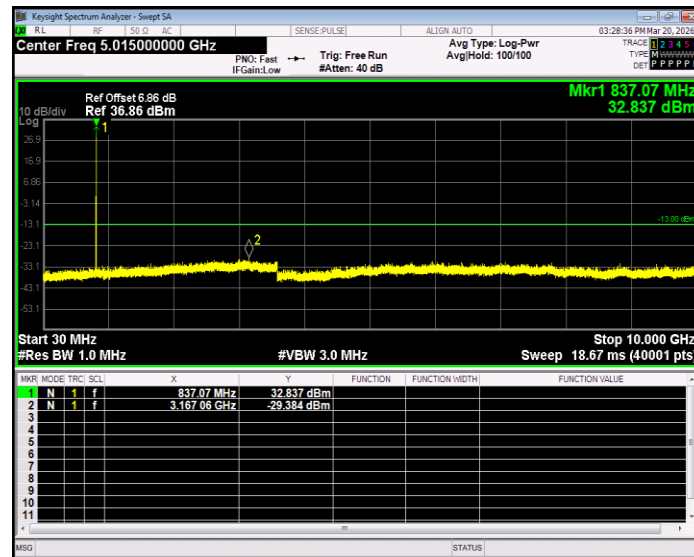
GPRS850 Channel=128



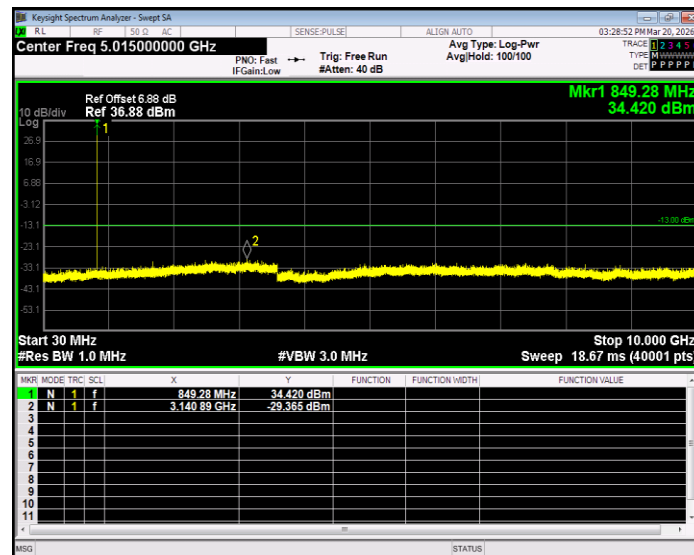


Report

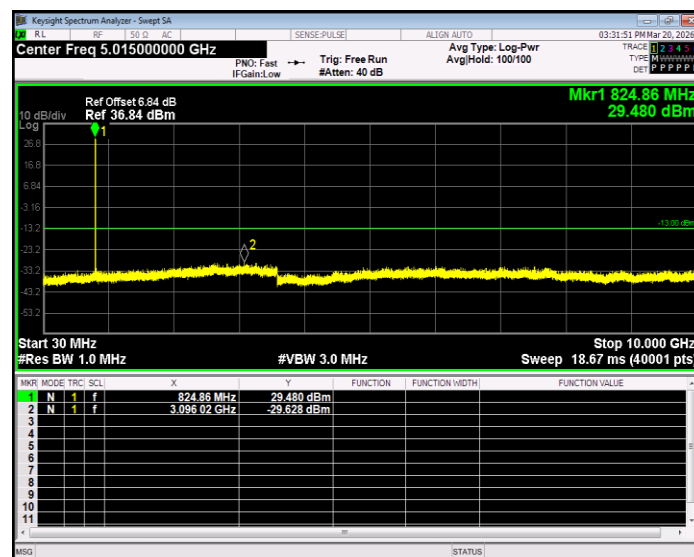
GPRS850 Channel=190



GPRS850 Channel=251



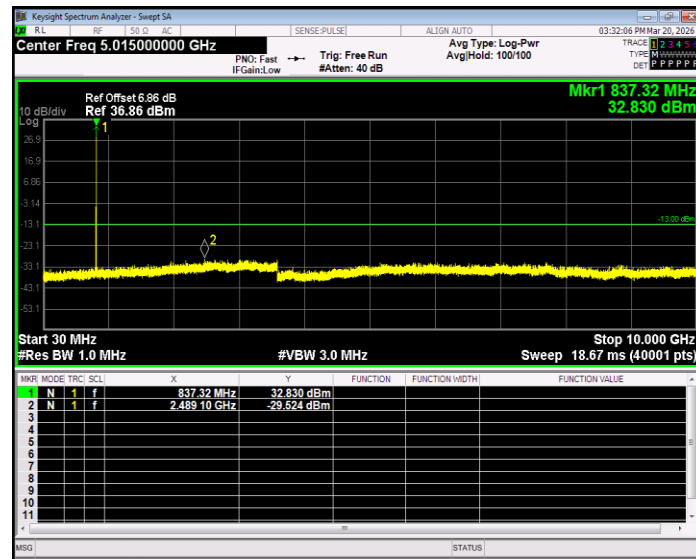
EGPRS850 Channel=128



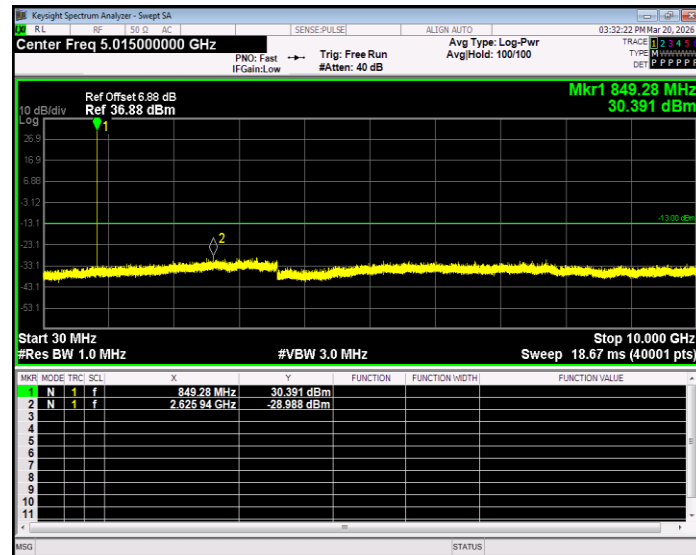


Report

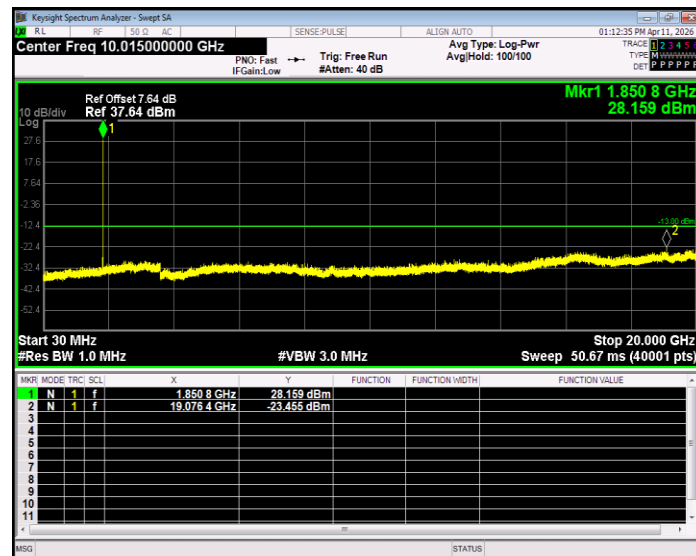
EGPRS850 Channel=190



EGPRS850 Channel=251



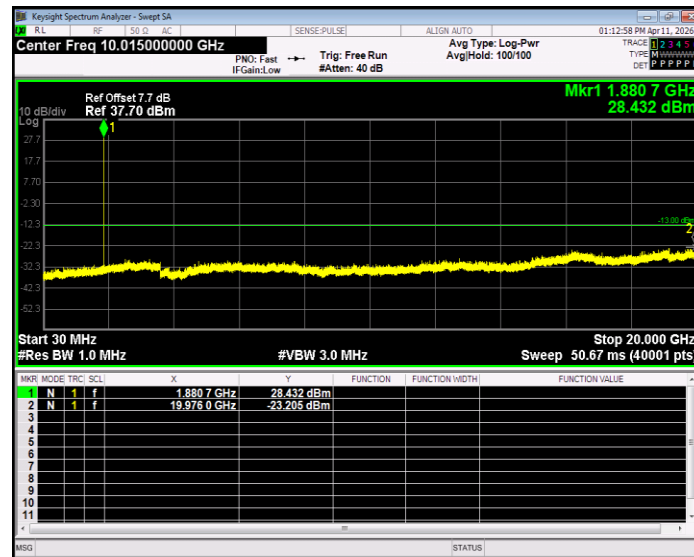
GSM1900 Channel=512



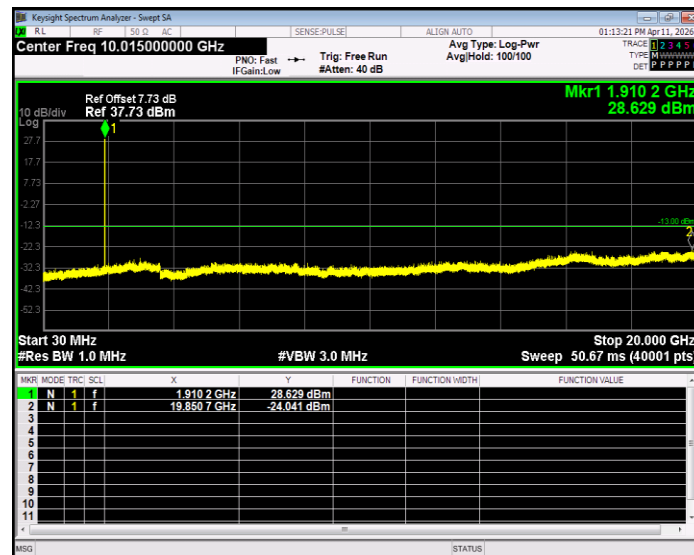


Report

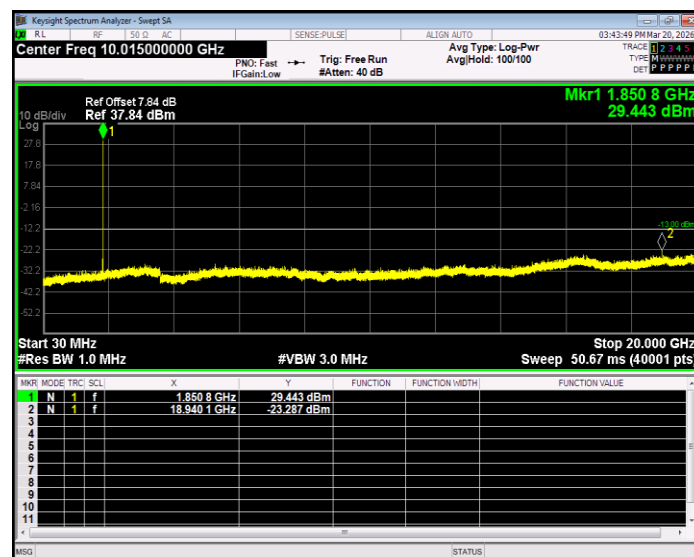
GSM1900 Channel=661



GSM1900 Channel=810



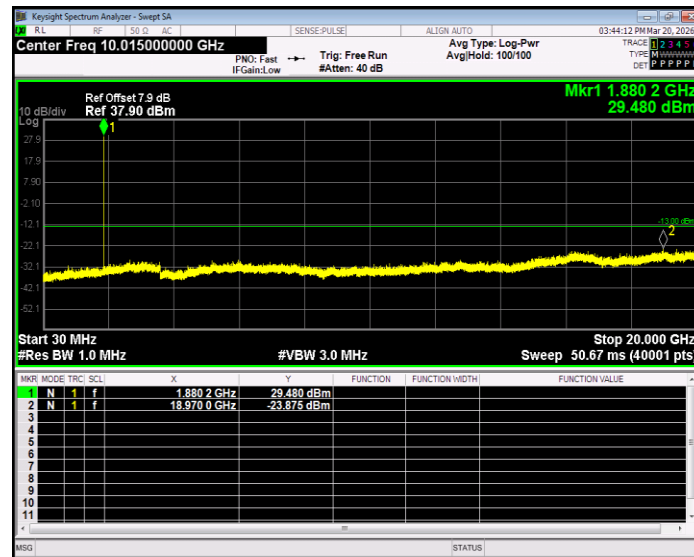
GPRS1900 Channel=512



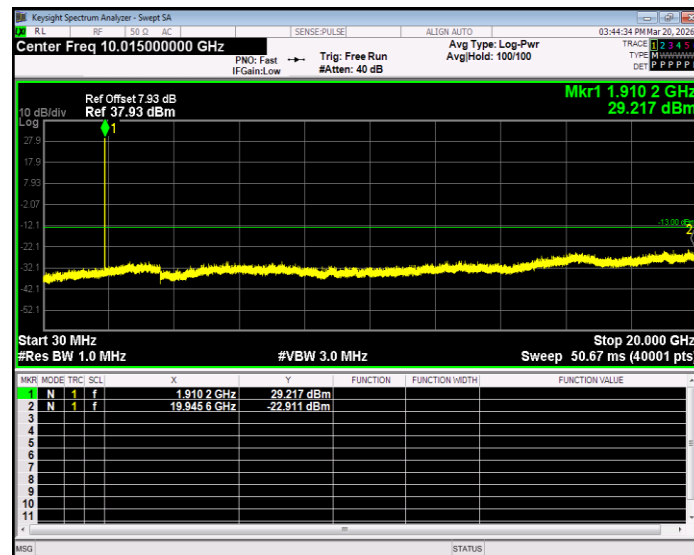


Report

GPRS1900 Channel=661



GPRS1900 Channel=810



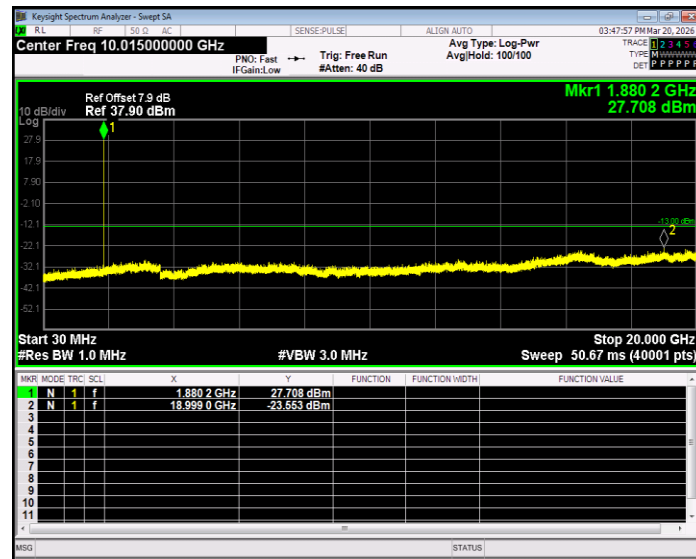
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810

