



Report

Contents

Conducted output power	2
Frequency stability	4
Peak-to-Average Ratio.....	7
Occupied bandwidth.....	14
Band edge.....	21
Out-of-band emissions.....	26



Report

Conducted output power

Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	ERP (dBm)	ERP Limit (dBm)	Verdict
GSM850	128	824.2	34.33	-3.74	28.44	38.45	PASS
GSM850	190	836.6	34.03	-3.74	28.14	38.45	PASS
GSM850	251	848.8	34.24	-3.74	28.35	38.45	PASS
GPRS850 1 Slot	128	824.2	34.40	-3.74	28.51	38.45	PASS
GPRS850 1 Slot	190	836.6	34.17	-3.74	28.28	38.45	PASS
GPRS850 1 Slot	251	848.8	34.27	-3.74	28.38	38.45	PASS
GPRS850 2 Slot	128	824.2	33.64	-3.74	27.75	38.45	PASS
GPRS850 2 Slot	190	836.6	33.46	-3.74	27.57	38.45	PASS
GPRS850 2 Slot	251	848.8	33.48	-3.74	27.59	38.45	PASS
GPRS850 3 Slot	128	824.2	31.96	-3.74	26.07	38.45	PASS
GPRS850 3 Slot	190	836.6	31.85	-3.74	25.96	38.45	PASS
GPRS850 3 Slot	251	848.8	31.72	-3.74	25.83	38.45	PASS
GPRS850 4 Slot	128	824.2	30.93	-3.74	25.04	38.45	PASS
GPRS850 4 Slot	190	836.6	30.86	-3.74	24.97	38.45	PASS
GPRS850 4 Slot	251	848.8	30.70	-3.74	24.81	38.45	PASS
EGPRS850 1 Slot	128	824.2	28.12	-3.74	22.23	38.45	PASS
EGPRS850 1 Slot	190	836.6	28.24	-3.74	22.35	38.45	PASS
EGPRS850 1 Slot	251	848.8	27.99	-3.74	22.10	38.45	PASS
EGPRS850 2 Slot	128	824.2	27.09	-3.74	21.20	38.45	PASS
EGPRS850 2 Slot	190	836.6	27.27	-3.74	21.38	38.45	PASS
EGPRS850 2 Slot	251	848.8	27.25	-3.74	21.36	38.45	PASS
EGPRS850 3 Slot	128	824.2	25.19	-3.74	19.30	38.45	PASS
EGPRS850 3 Slot	190	836.6	25.27	-3.74	19.38	38.45	PASS
EGPRS850 3 Slot	251	848.8	25.00	-3.74	19.11	38.45	PASS
EGPRS850 4 Slot	128	824.2	23.72	-3.74	17.83	38.45	PASS
EGPRS850 4 Slot	190	836.6	23.74	-3.74	17.85	38.45	PASS
EGPRS850 4 Slot	251	848.8	24.17	-3.74	18.28	38.45	PASS



Report

Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
GSM1900	512	1850.2	31.39	0.72	32.11	33.01	PASS
GSM1900	661	1880	31.21	0.72	31.93	33.01	PASS
GSM1900	810	1909.8	31.37	0.72	32.09	33.01	PASS
GPRS1900 1 Slot	512	1850.2	31.42	0.72	32.14	33.01	PASS
GPRS1900 1 Slot	661	1880	31.23	0.72	31.95	33.01	PASS
GPRS1900 1 Slot	810	1909.8	31.37	0.72	32.09	33.01	PASS
GPRS1900 2 Slot	512	1850.2	30.61	0.72	31.33	33.01	PASS
GPRS1900 2 Slot	661	1880	30.39	0.72	31.11	33.01	PASS
GPRS1900 2 Slot	810	1909.8	30.60	0.72	31.32	33.01	PASS
GPRS1900 3 Slot	512	1850.2	28.57	0.72	29.29	33.01	PASS
GPRS1900 3 Slot	661	1880	28.35	0.72	29.07	33.01	PASS
GPRS1900 3 Slot	810	1909.8	28.56	0.72	29.28	33.01	PASS
GPRS1900 4 Slot	512	1850.2	27.28	0.72	28.00	33.01	PASS
GPRS1900 4 Slot	661	1880	27.05	0.72	27.77	33.01	PASS
GPRS1900 4 Slot	810	1909.8	27.29	0.72	28.01	33.01	PASS
EGPRS1900 1 Slot	512	1850.2	27.53	0.72	28.25	33.01	PASS
EGPRS1900 1 Slot	661	1880	27.17	0.72	27.89	33.01	PASS
EGPRS1900 1 Slot	810	1909.8	27.05	0.72	27.77	33.01	PASS
EGPRS1900 2 Slot	512	1850.2	26.18	0.72	26.90	33.01	PASS
EGPRS1900 2 Slot	661	1880	25.74	0.72	26.46	33.01	PASS
EGPRS1900 2 Slot	810	1909.8	26.21	0.72	26.93	33.01	PASS
EGPRS1900 3 Slot	512	1850.2	24.22	0.72	24.94	33.01	PASS
EGPRS1900 3 Slot	661	1880	23.39	0.72	24.11	33.01	PASS
EGPRS1900 3 Slot	810	1909.8	23.91	0.72	24.63	33.01	PASS
EGPRS1900 4 Slot	512	1850.2	23.22	0.72	23.94	33.01	PASS
EGPRS1900 4 Slot	661	1880	22.38	0.72	23.10	33.01	PASS
EGPRS1900 4 Slot	810	1909.8	22.89	0.72	23.61	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	5.28	0.006	2.5ppm	PASS
40		5.23	0.006		
30		-5.67	-0.007		
20		9.20	0.011		
10		-5.23	-0.006		
0		-5.36	-0.006		
-10		5.72	0.007		
-20		-5.43	-0.006		
-30		-5.64	-0.007		
20	Maximum Voltage	-5.37	-0.006		
20	BEP	5.22	0.006		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-4.06	-0.005	2.5ppm	PASS
40		-3.71	-0.004		
30		-4.19	-0.005		
20		6.33	0.008		
10		-4.16	-0.005		
0		-3.71	-0.004		
-10		3.98	0.005		
-20		-3.73	-0.004		
-30		-4.08	-0.005		
20	Maximum Voltage	-3.98	-0.005		
20	BEP	-4.15	-0.005		



Report

EGPRS 850 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-1.79	-0.002	2.5ppm	PASS
40		1.87	0.002		
30		2.28	0.003		
20		2.49	0.003		
10		-1.99	-0.002		
0		2.12	0.003		
-10		-2.15	-0.003		
-20		2.00	0.002		
-30		1.98	0.002		
20	Maximum Voltage	1.94	0.002		
20	BEP	-2.15	-0.003		

GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-3.97	-0.002	Within Authorized Band	PASS
40		3.84	0.002		
30		4.08	0.002		
20		6.10	0.003		
10		-3.58	-0.002		
0		-3.98	-0.002		
-10		3.75	0.002		
-20		-4.06	-0.002		
-30		3.82	0.002		
20	Maximum Voltage	3.64	0.002		
20	BEP	4.03	0.002		



Report

GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	2.83	0.002	Within Authorized Band	PASS
40		2.62	0.001		
30		-2.75	-0.001		
20		3.49	0.002		
10		-2.27	-0.001		
0		-2.68	-0.001		
-10		2.50	0.001		
-20		2.54	0.001		
-30		-2.50	-0.001		
20	Maximum Voltage	2.39	0.001		
20	BEP	-2.72	-0.001		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	6.50	0.003	Within Authorized Band	PASS
40		6.06	0.003		
30		-6.30	-0.003		
20		10.78	0.006		
10		-6.32	-0.003		
0		6.41	0.003		
-10		-6.25	-0.003		
-20		-6.07	-0.003		
-30		-6.32	-0.003		
20	Maximum Voltage	5.92	0.003		
20	BEP	6.19	0.003		

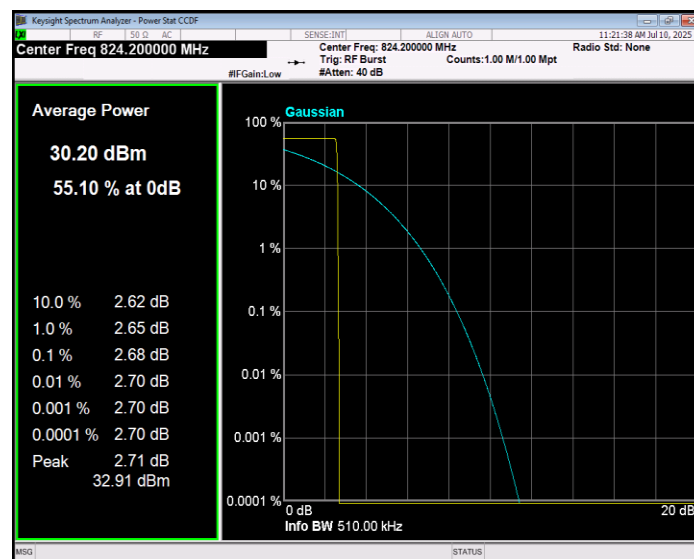


Report

Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM850	128	824.2	2.68	13	PASS
GSM850	190	836.6	2.67	13	PASS
GSM850	251	848.8	2.68	13	PASS
GPRS850	128	824.2	2.68	13	PASS
GPRS850	190	836.6	2.67	13	PASS
GPRS850	251	848.8	2.68	13	PASS
EGPRS850	128	824.2	8.98	13	PASS
EGPRS850	190	836.6	7.97	13	PASS
EGPRS850	251	848.8	8.74	13	PASS
GSM1900	512	1850.2	2.71	13	PASS
GSM1900	661	1880	2.69	13	PASS
GSM1900	810	1909.8	2.71	13	PASS
GPRS1900	512	1850.2	2.72	13	PASS
GPRS1900	661	1880	2.69	13	PASS
GPRS1900	810	1909.8	2.71	13	PASS
EGPRS1900	512	1850.2	7.06	13	PASS
EGPRS1900	661	1880	7.02	13	PASS
EGPRS1900	810	1909.8	7.05	13	PASS

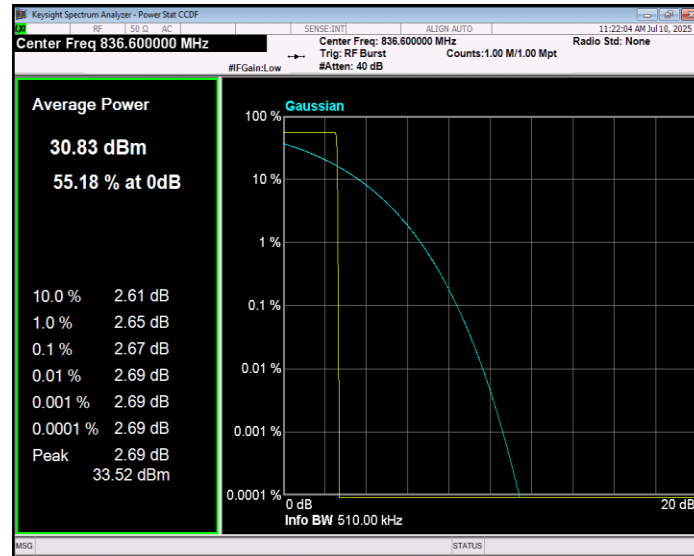
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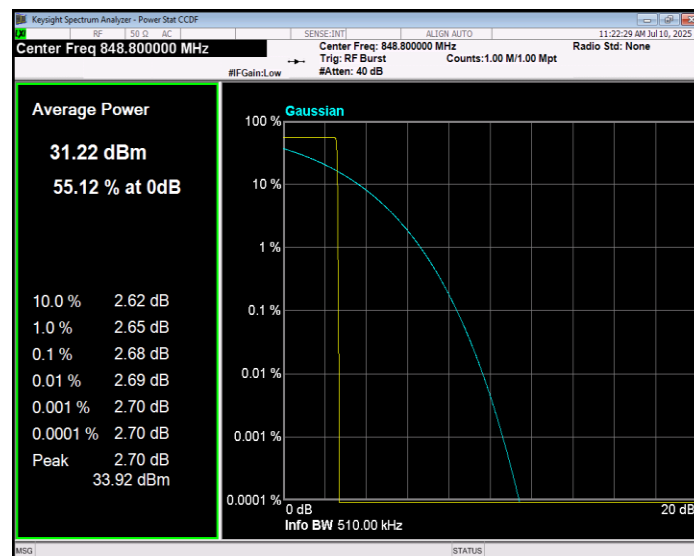
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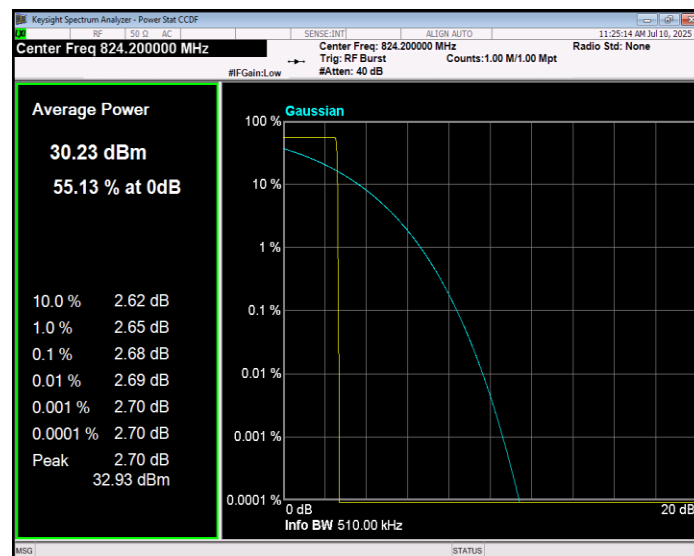
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GSM850 Channel=251



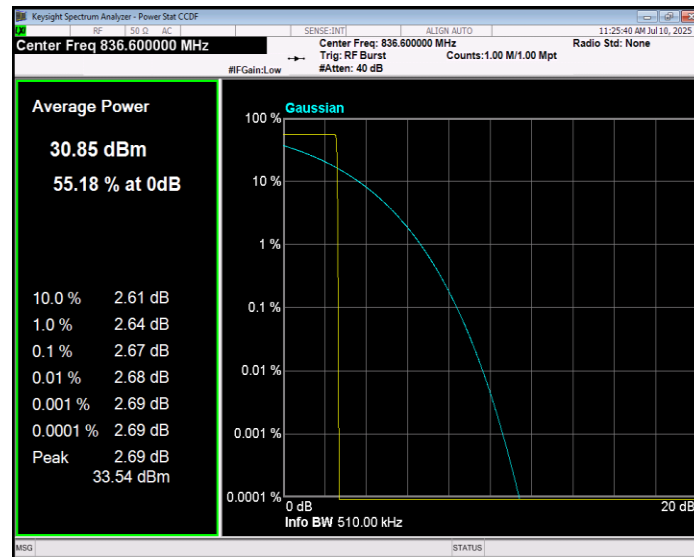
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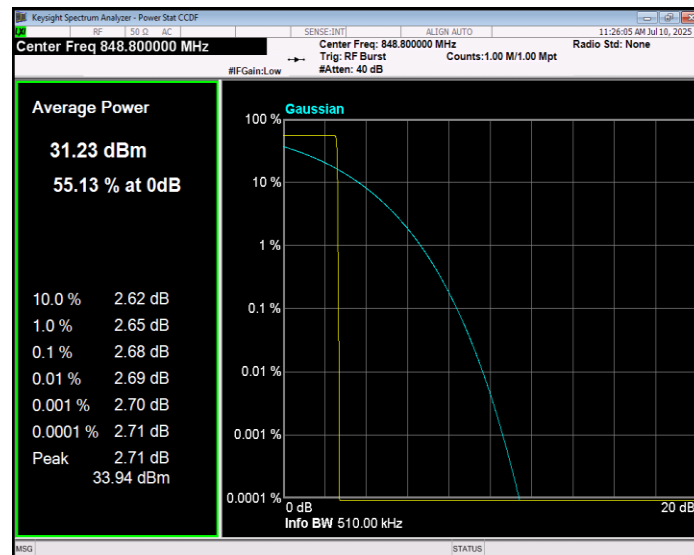


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GPRS850 Channel=190



GPRS850 Channel=251



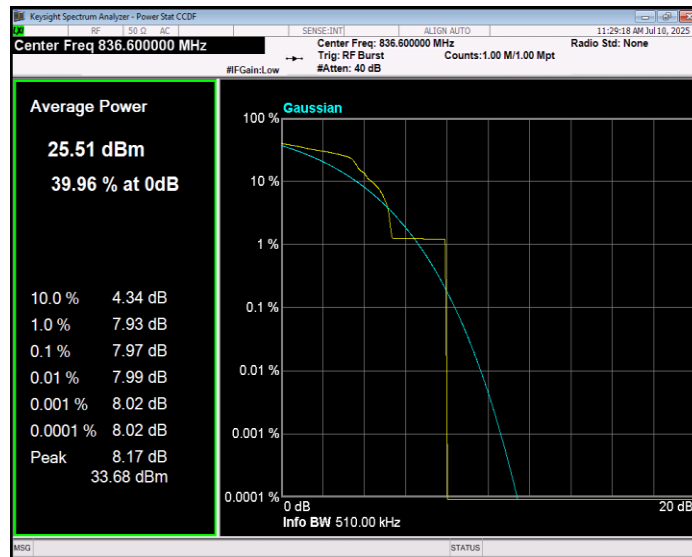
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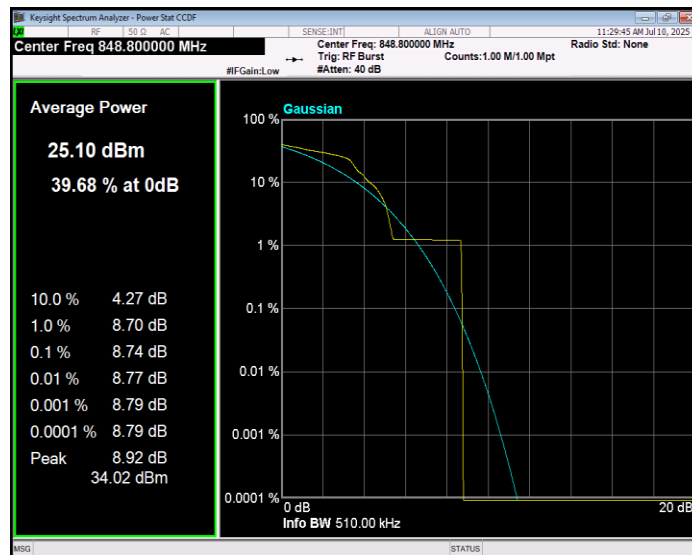


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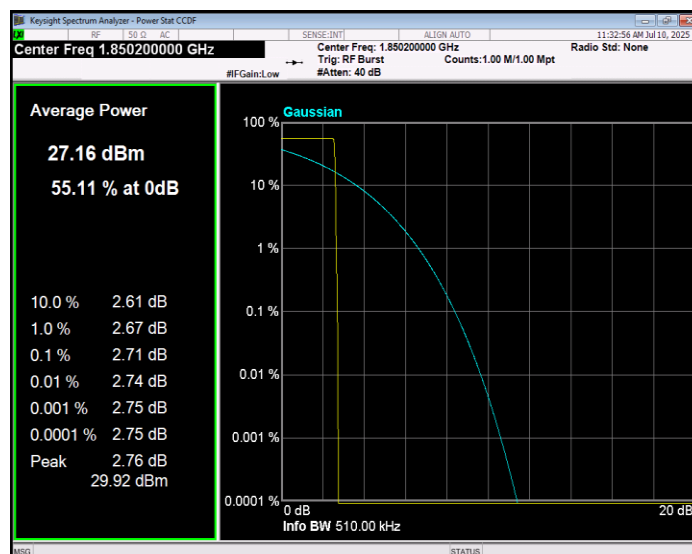
EGPRS850 Channel=190



EGPRS850 Channel=251



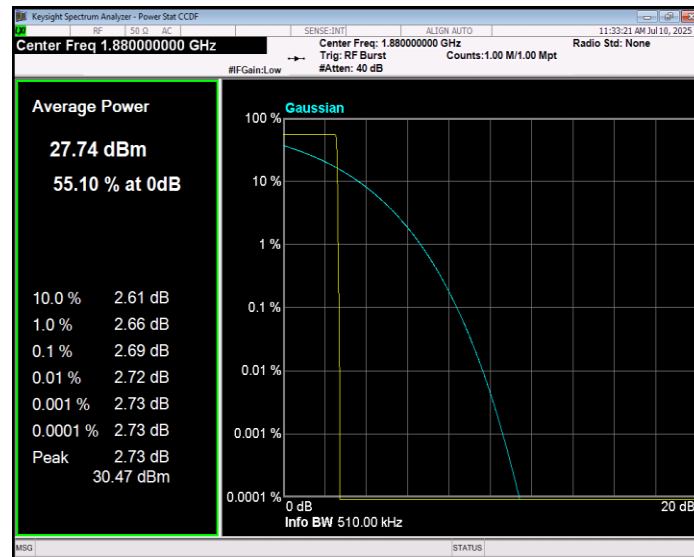
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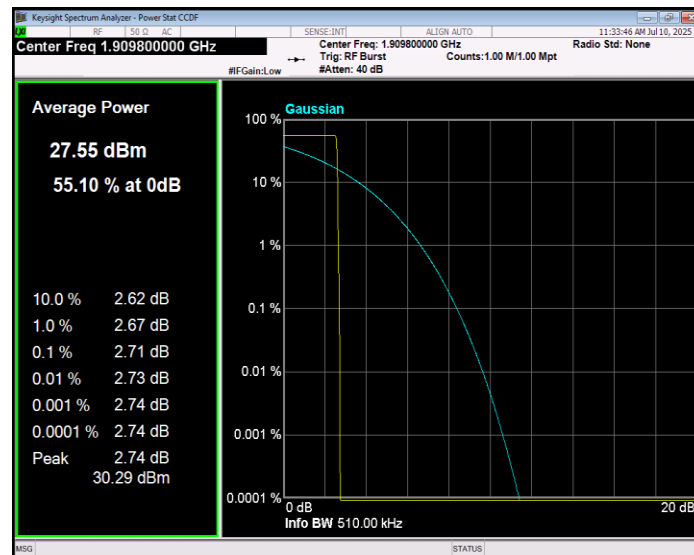


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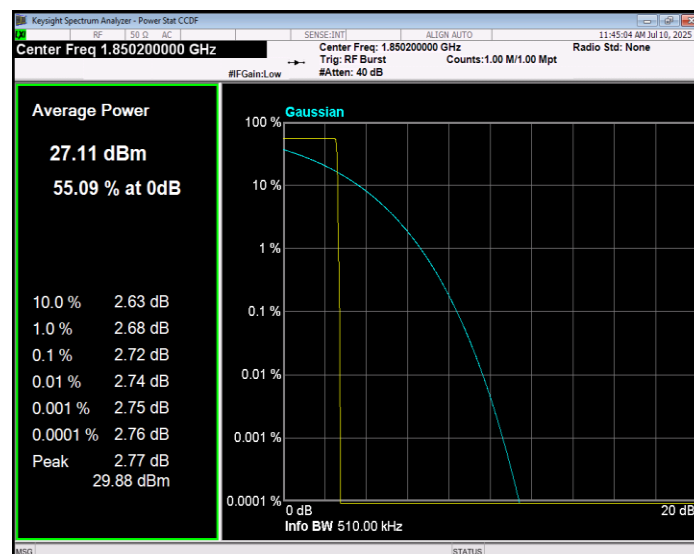
GSM1900 Channel=661



GSM1900 Channel=810



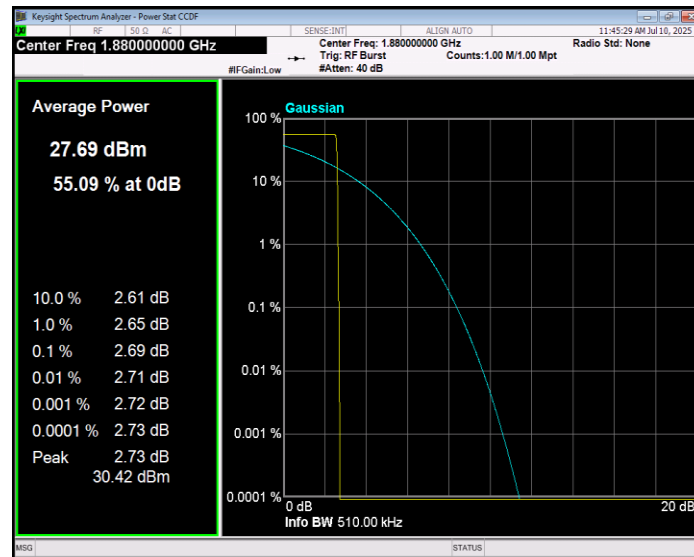
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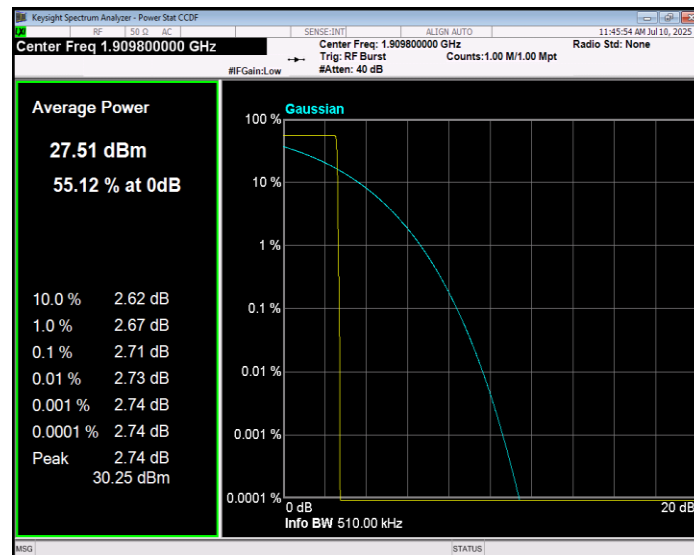


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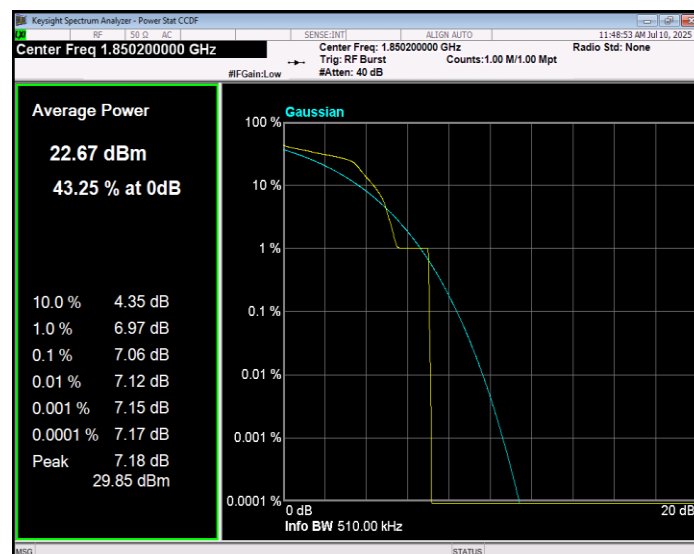
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GPRS1900 Channel=810



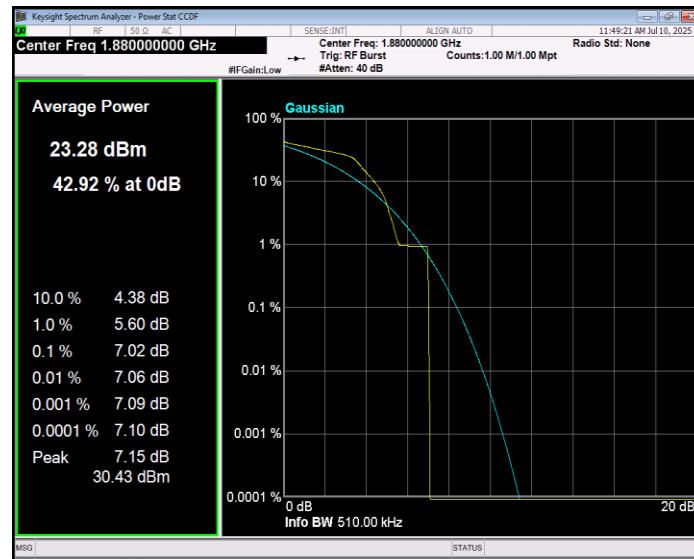
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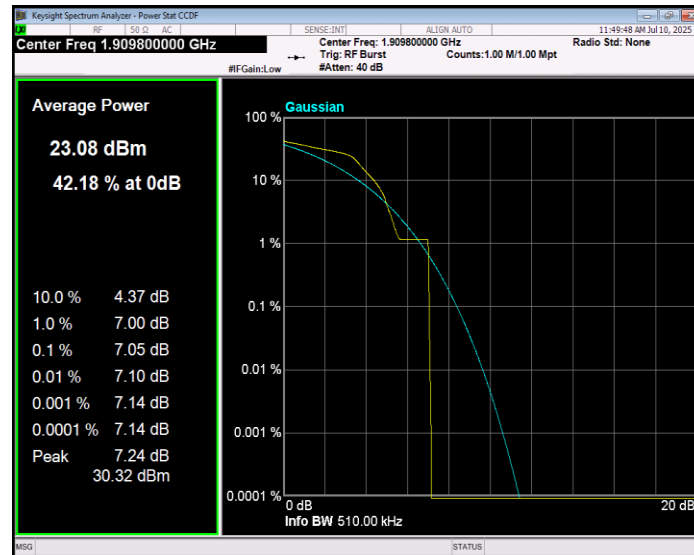


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EGPRS1900 Channel=661



EGPRS1900 Channel=810



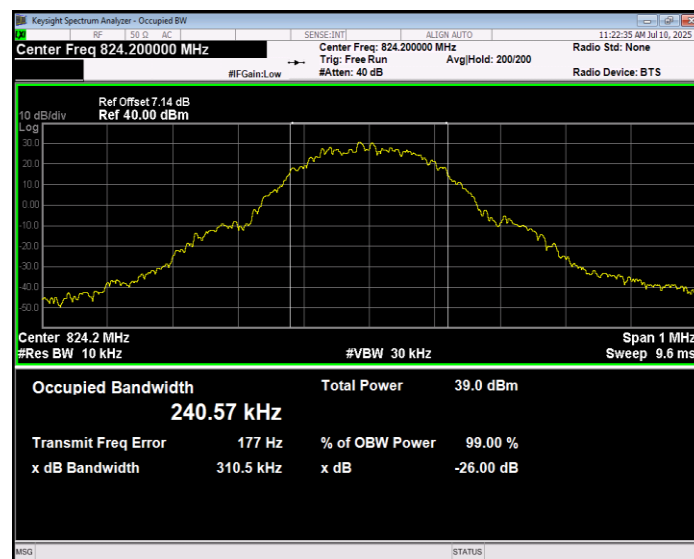


Report

Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	240.571	310.500	PASS
GSM850	190	836.6	244.056	320.820	PASS
GSM850	251	848.8	255.703	319.087	PASS
GPRS850	128	824.2	244.050	310.415	PASS
GPRS850	190	836.6	247.208	317.901	PASS
GPRS850	251	848.8	242.445	319.154	PASS
EGPRS850	128	824.2	241.166	322.608	PASS
EGPRS850	190	836.6	247.610	326.019	PASS
EGPRS850	251	848.8	243.456	295.916	PASS
GSM1900	512	1850.2	244.569	310.849	PASS
GSM1900	661	1880	241.762	312.637	PASS
GSM1900	810	1909.8	246.635	317.762	PASS
GPRS1900	512	1850.2	246.104	312.383	PASS
GPRS1900	661	1880	242.101	324.992	PASS
GPRS1900	810	1909.8	249.486	322.768	PASS
EGPRS1900	512	1850.2	245.862	306.385	PASS
EGPRS1900	661	1880	244.420	290.451	PASS
EGPRS1900	810	1909.8	242.973	317.004	PASS

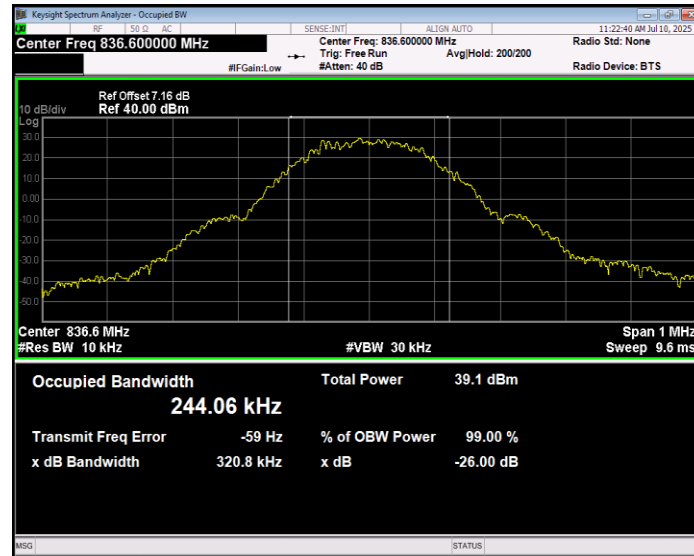
GSM850 Channel=128



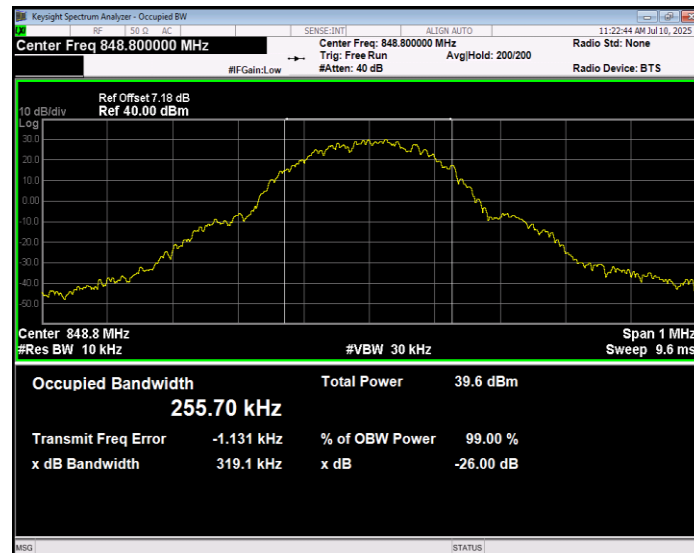
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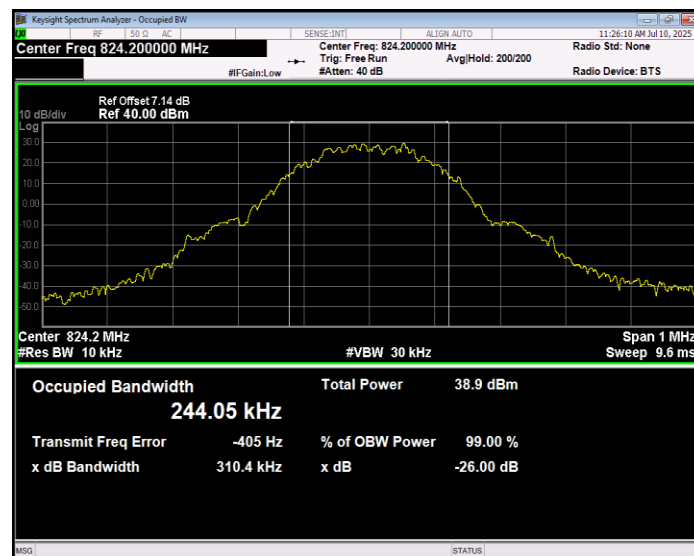
Report



GSM850 Channel=251



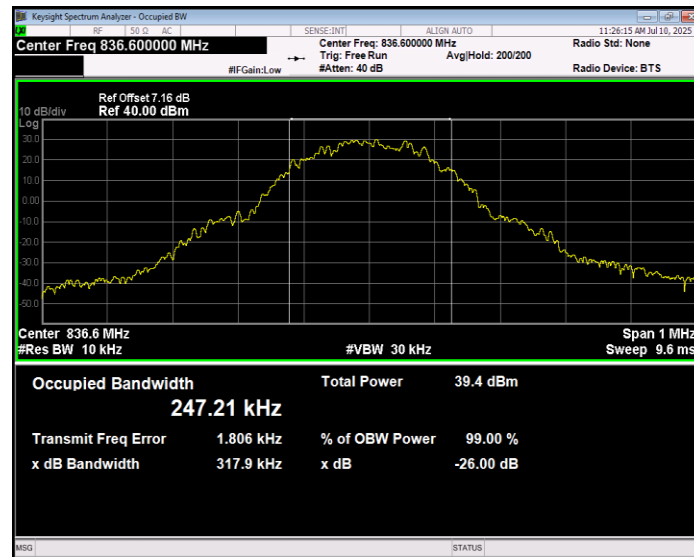
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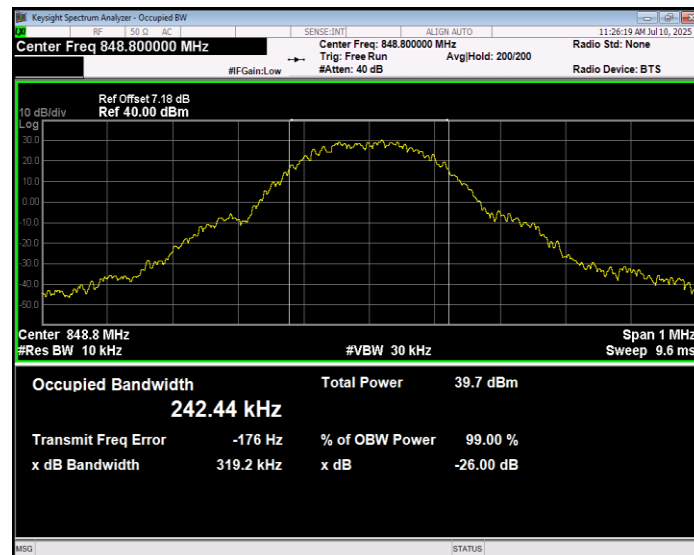


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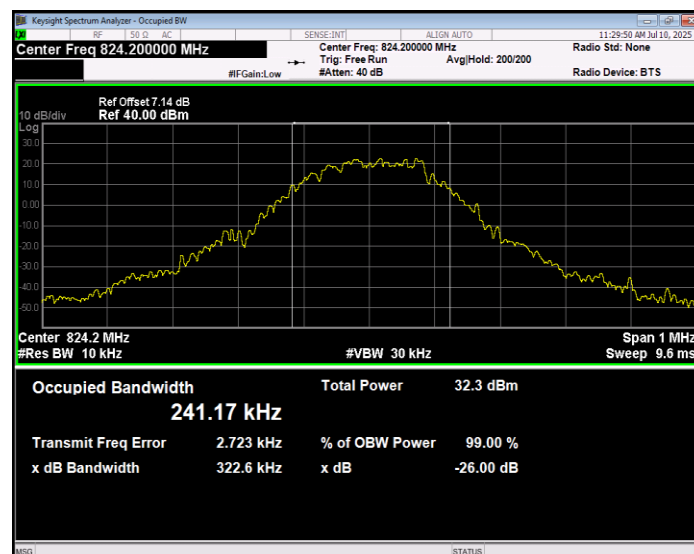
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GPRS850 Channel=251



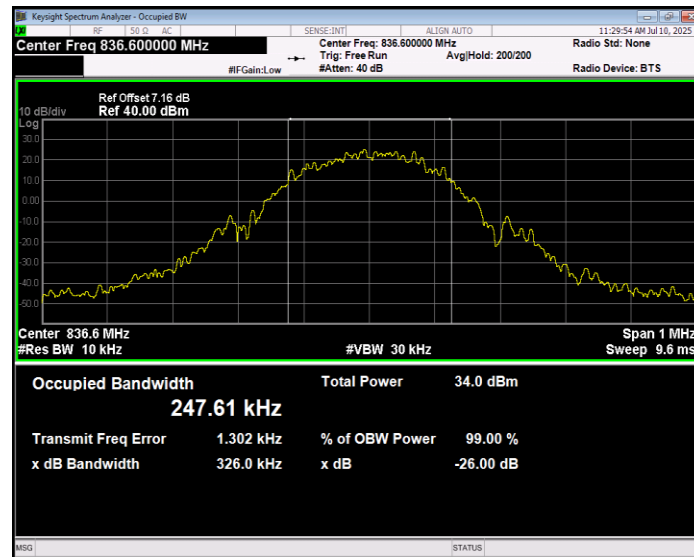
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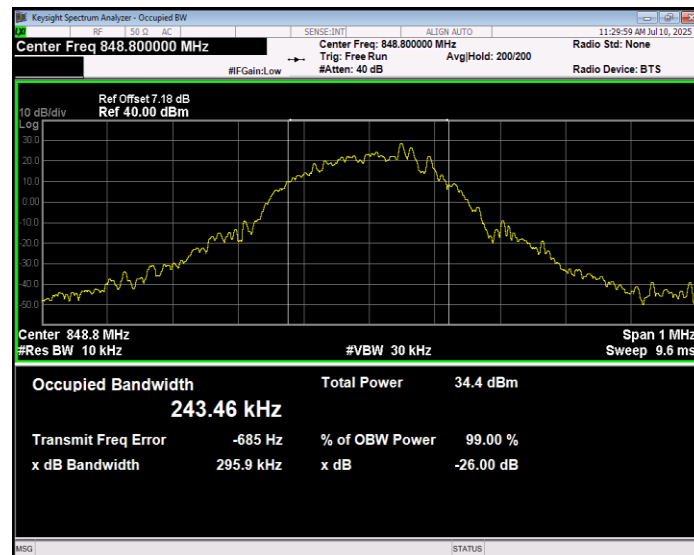


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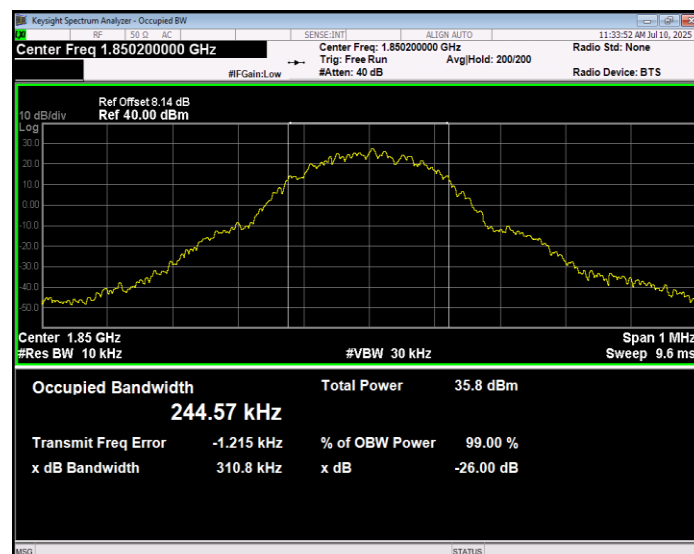
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EGPRS850 Channel=251



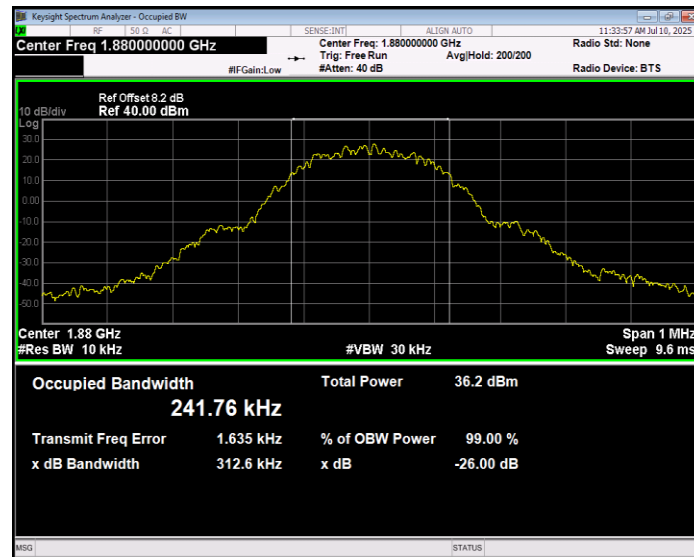
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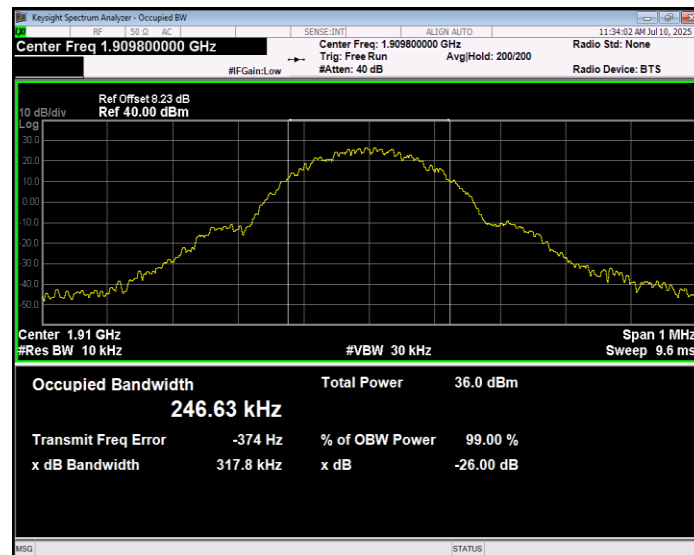


Report

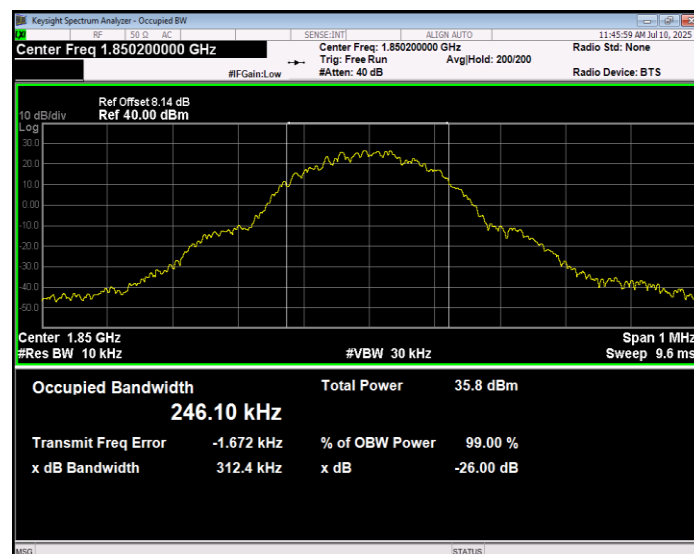
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GSM1900 Channel=810



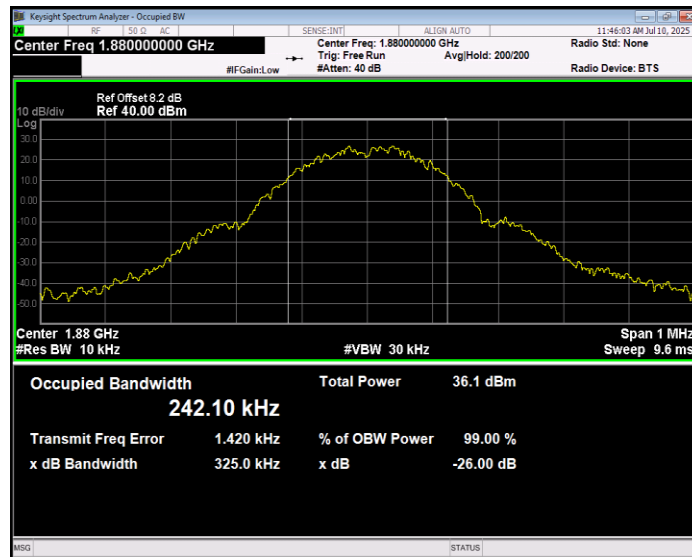
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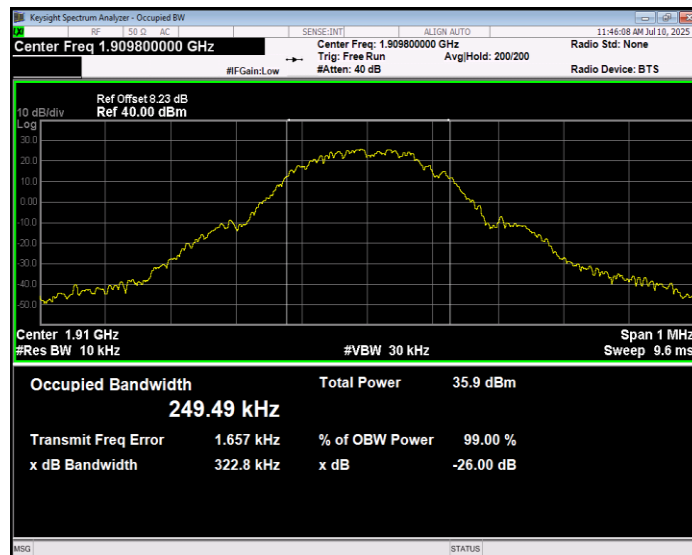


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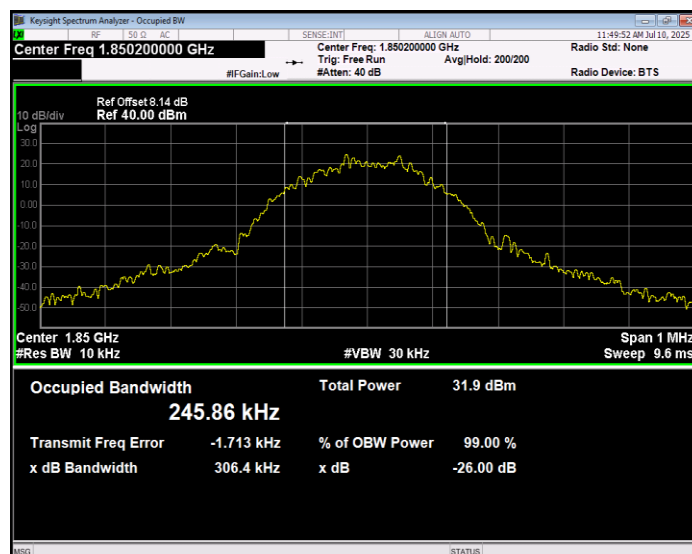
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GPRS1900 Channel=810



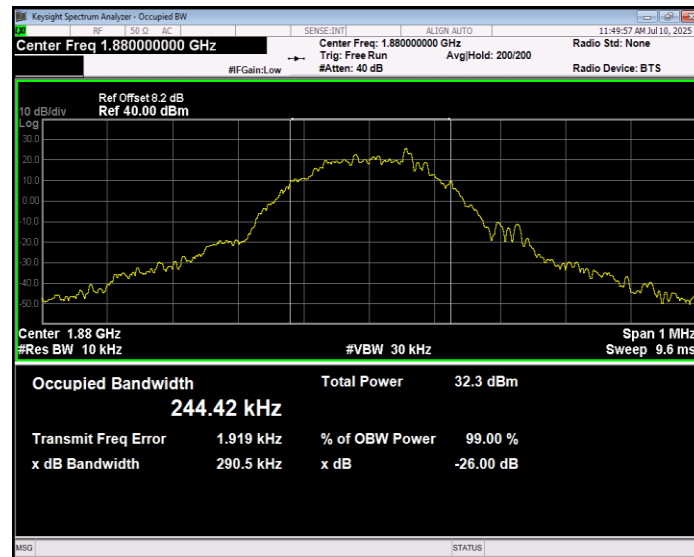
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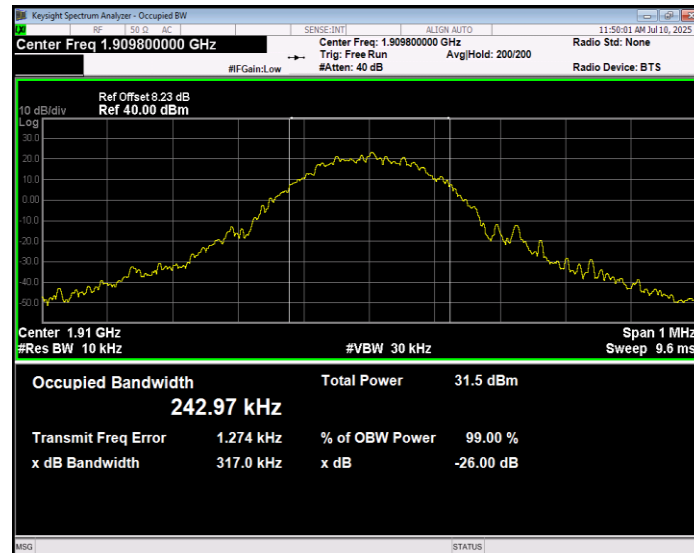


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



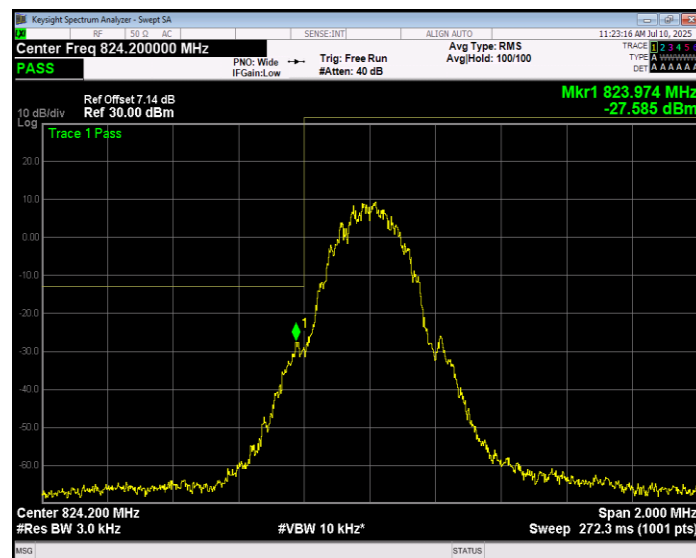


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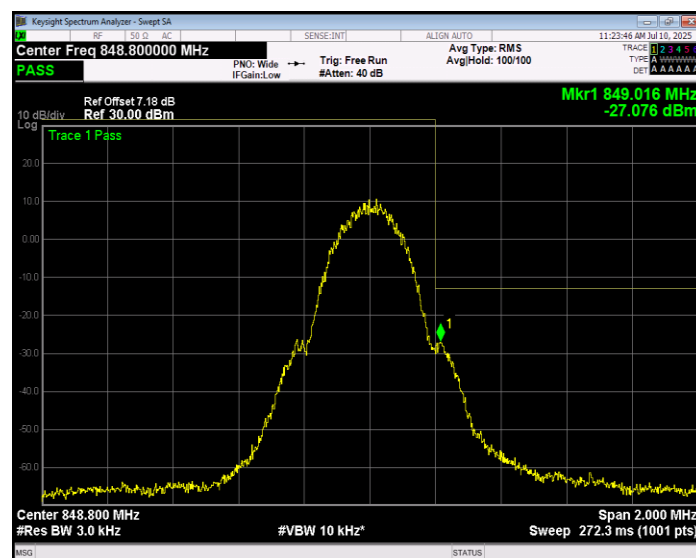
Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	823.97	-27.58	-13	PASS
GSM850	251	848.8	849.02	-27.07	-13	PASS
GPRS850	128	824.2	823.98	-27.17	-13	PASS
GPRS850	251	848.8	849.03	-26.94	-13	PASS
EGPRS850	128	824.2	823.99	-33.49	-13	PASS
EGPRS850	251	848.8	849.01	-34.94	-13	PASS
GSM1900	512	1850.2	1849.97	-31.26	-13	PASS
GSM1900	810	1909.8	1910.02	-28.41	-13	PASS
GPRS1900	512	1850.2	1849.98	-31.16	-13	PASS
GPRS1900	810	1909.8	1910.02	-29.87	-13	PASS
EGPRS1900	512	1850.2	1849.98	-38.70	-13	PASS
EGPRS1900	810	1909.8	1910.01	-37.36	-13	PASS

GSM850 Channel=128



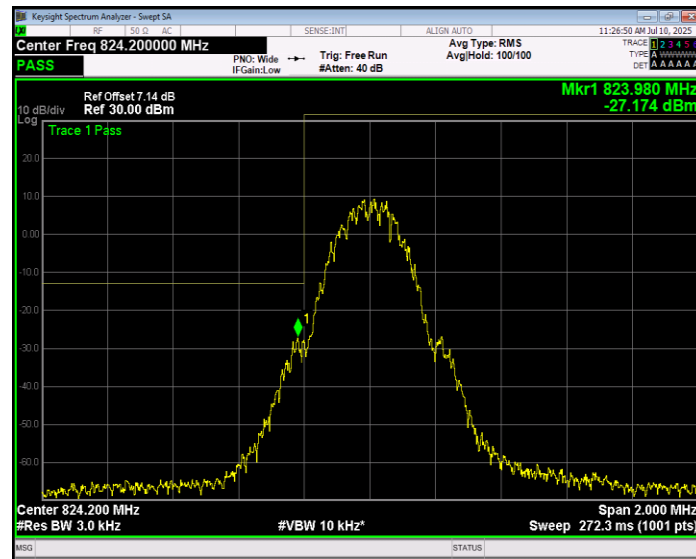
GSM850 Channel=251



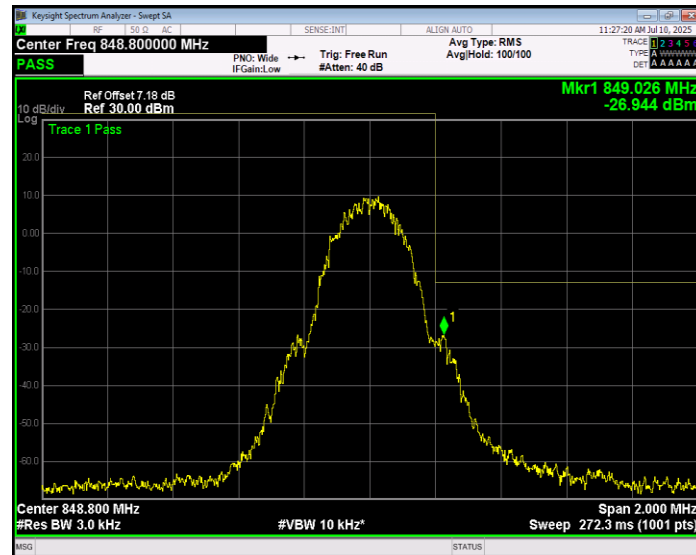


Report

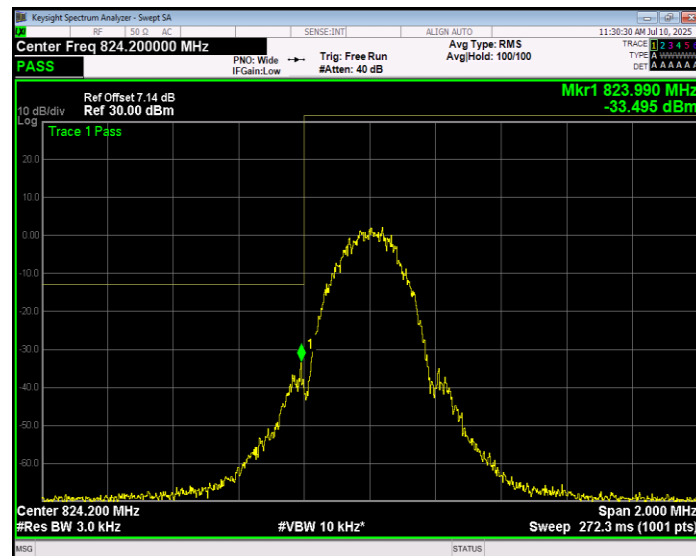
GPRS850 Channel=128



GPRS850 Channel=251



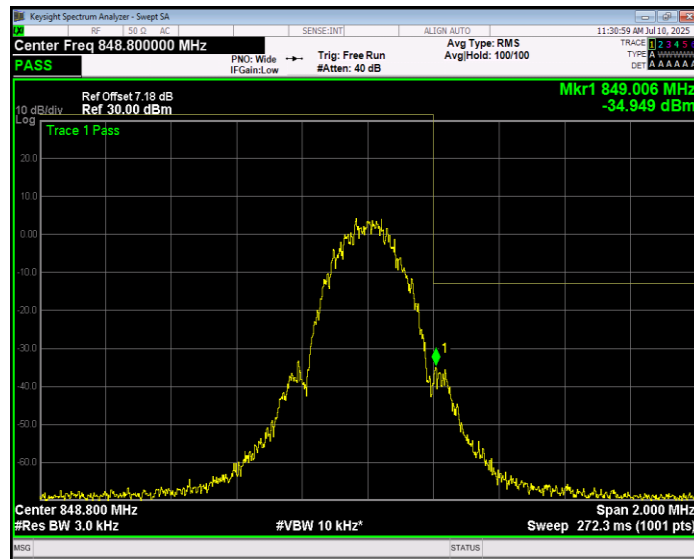
EGPRS850 Channel=128



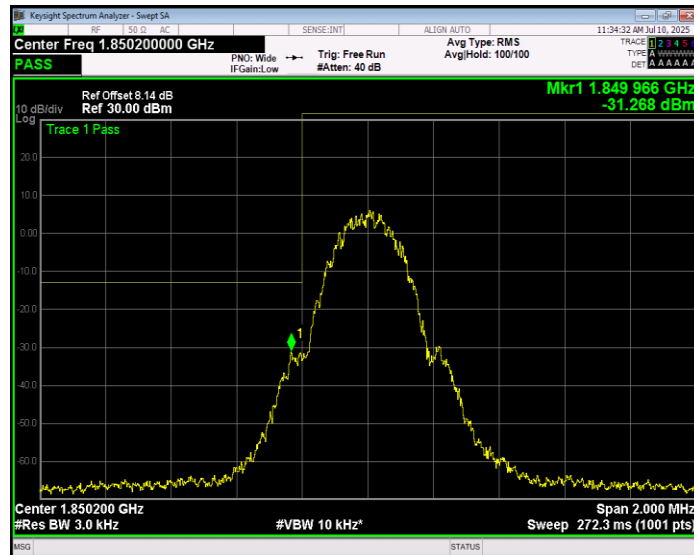


Report

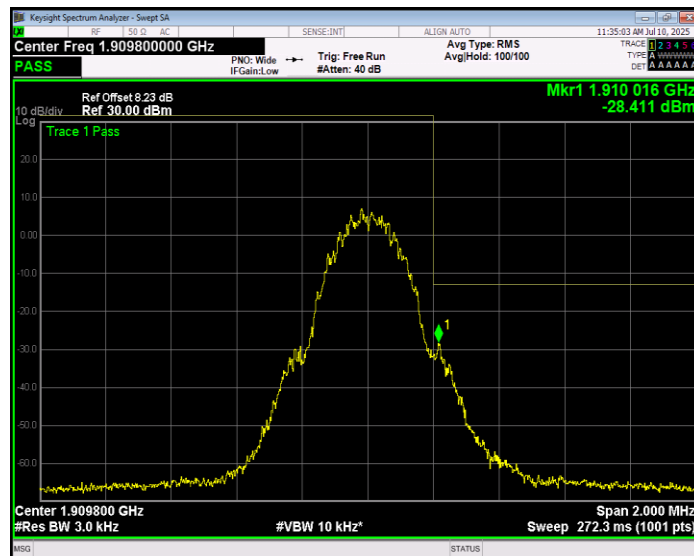
EGPRS850 Channel=251



GSM1900 Channel=512



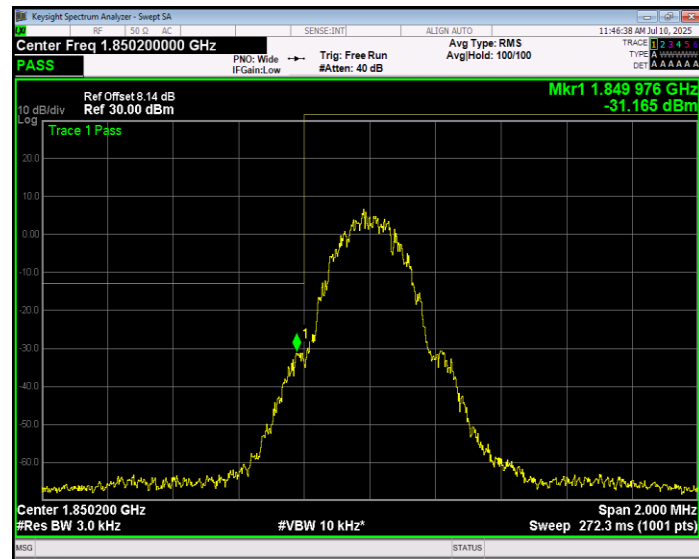
GSM1900 Channel=810



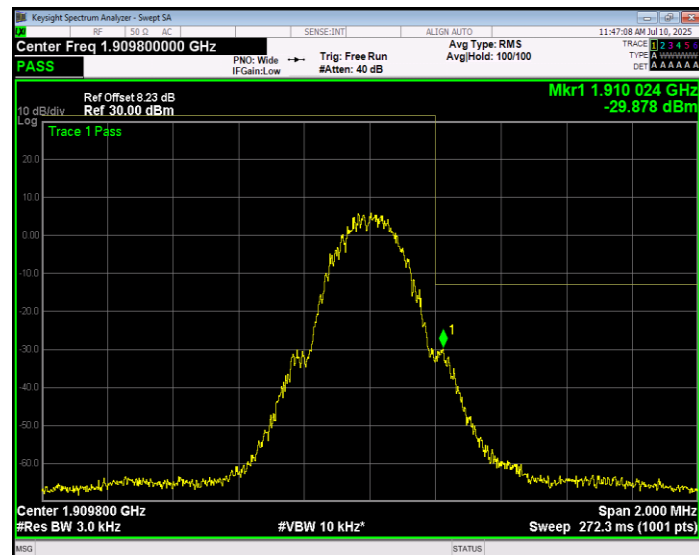


Report

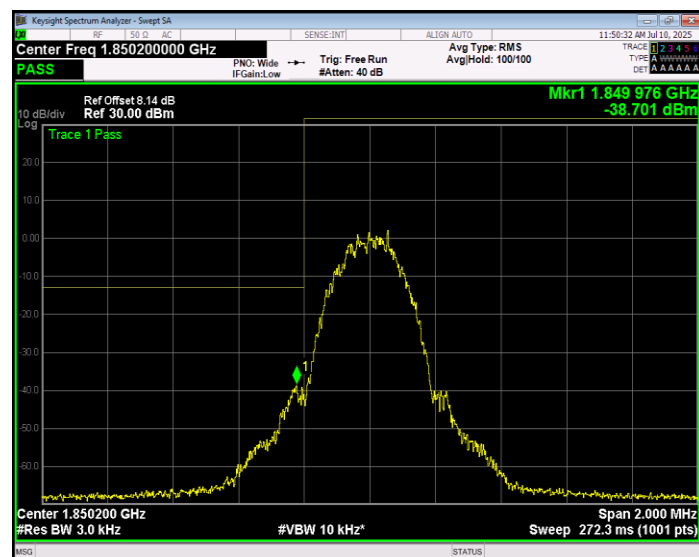
GPRS1900 Channel=512



GPRS1900 Channel=810



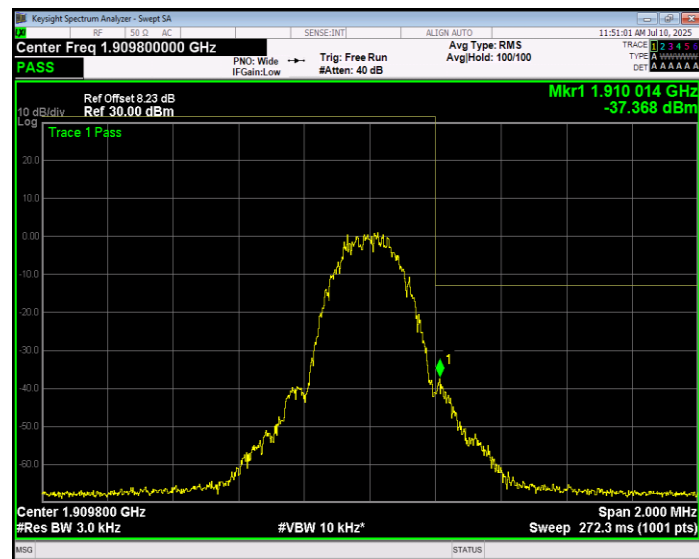
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=810



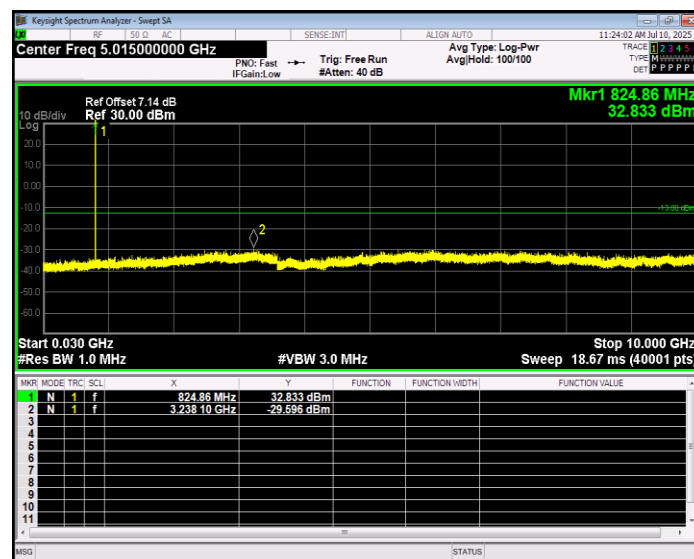


Report

Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	3238.10	-29.59	-13	PASS
GSM850	190	836.6	5583.54	-29.73	-13	PASS
GSM850	251	848.8	5588.52	-29.40	-13	PASS
GPRS850	128	824.2	2472.90	-13.83	-13	PASS
GPRS850	190	836.6	2510.54	-23.53	-13	PASS
GPRS850	251	848.8	3154.10	-29.18	-13	PASS
EGPRS850	128	824.2	5905.07	-29.79	-13	PASS
EGPRS850	190	836.6	6026.71	-29.75	-13	PASS
EGPRS850	251	848.8	6258.01	-29.16	-13	PASS
GSM1900	512	1850.2	18758.37	-22.69	-13	PASS
GSM1900	661	1880	19785.32	-22.69	-13	PASS
GSM1900	810	1909.8	19785.32	-22.47	-13	PASS
GPRS1900	512	1850.2	19077.89	-21.92	-13	PASS
GPRS1900	661	1880	19478.78	-22.64	-13	PASS
GPRS1900	810	1909.8	16430.86	-21.11	-13	PASS
EGPRS1900	512	1850.2	19769.35	-23.22	-13	PASS
EGPRS1900	661	1880	19000.00	-21.25	-13	PASS
EGPRS1900	810	1909.8	19995.01	-22.27	-13	PASS

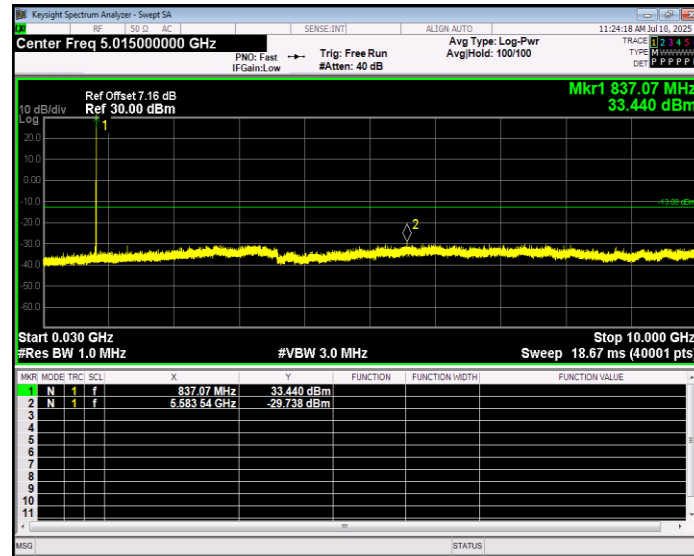
GSM850 Channel=128



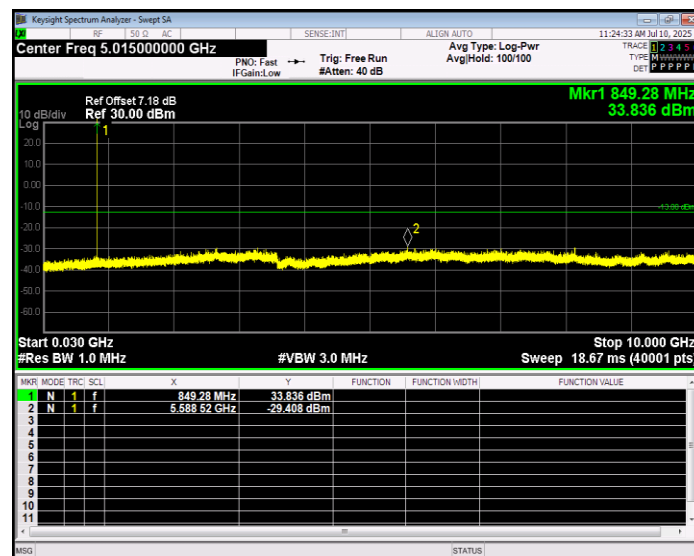
GSM850 Channel=190



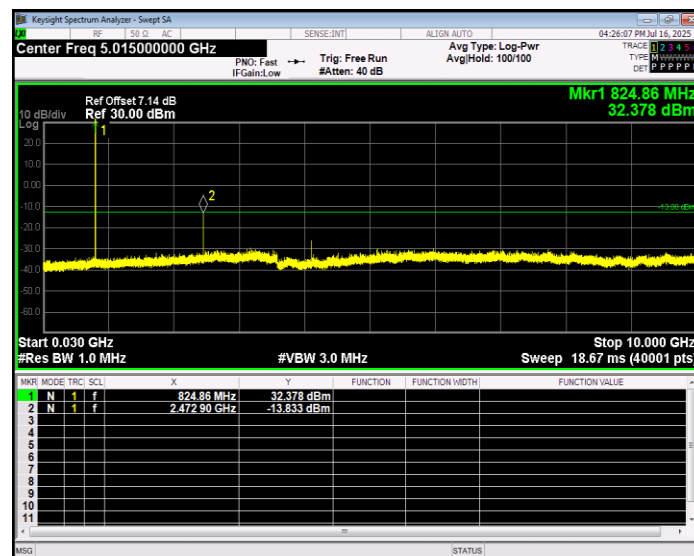
Report



GSM850 Channel=251



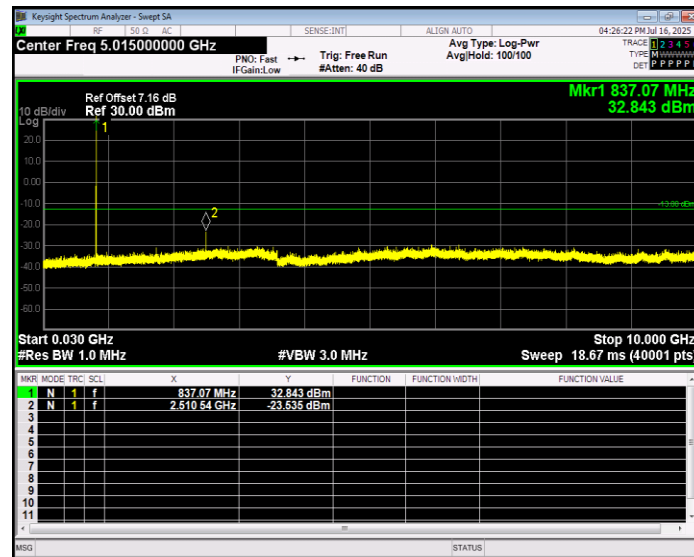
GPRS850 Channel=128



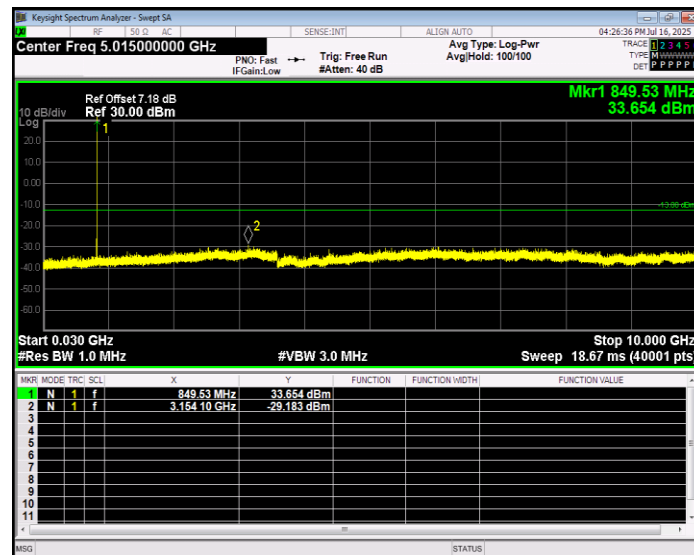


Report

GPRS850 Channel=190



GPRS850 Channel=251



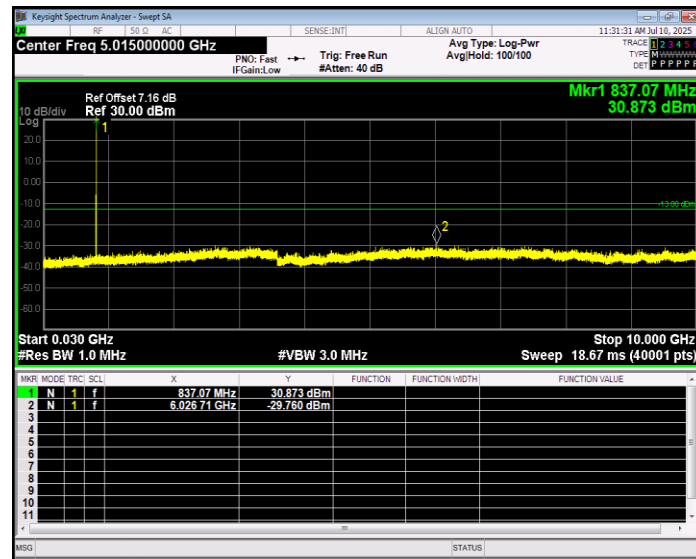
EGPRS850 Channel=128



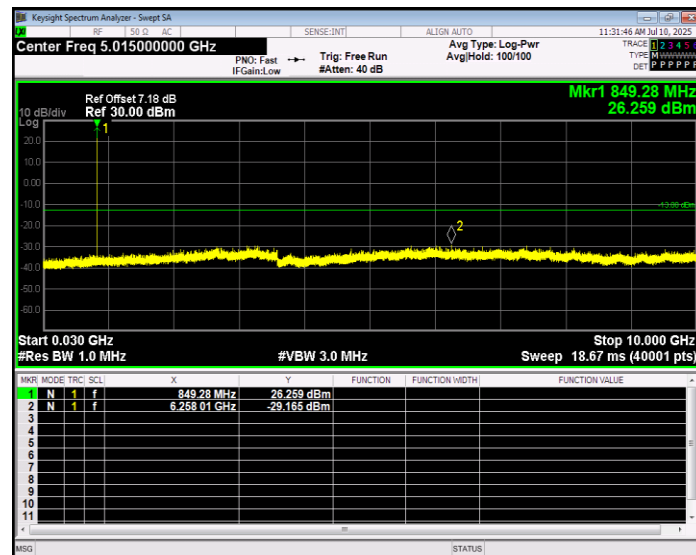


Report

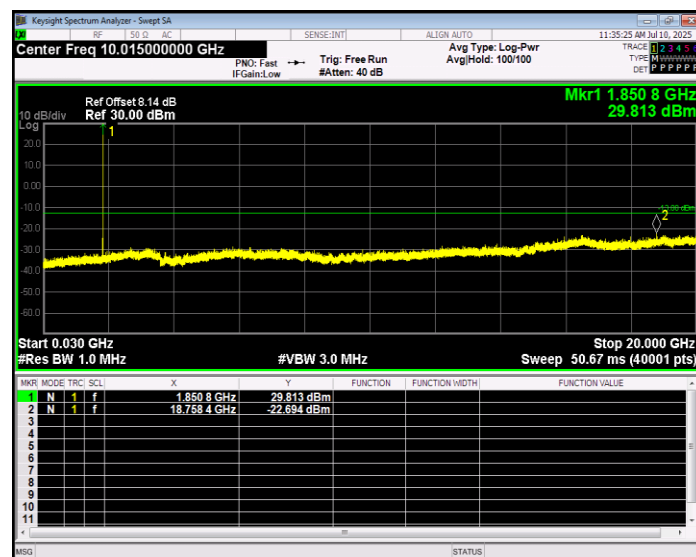
EGPRS850 Channel=190



EGPRS850 Channel=251



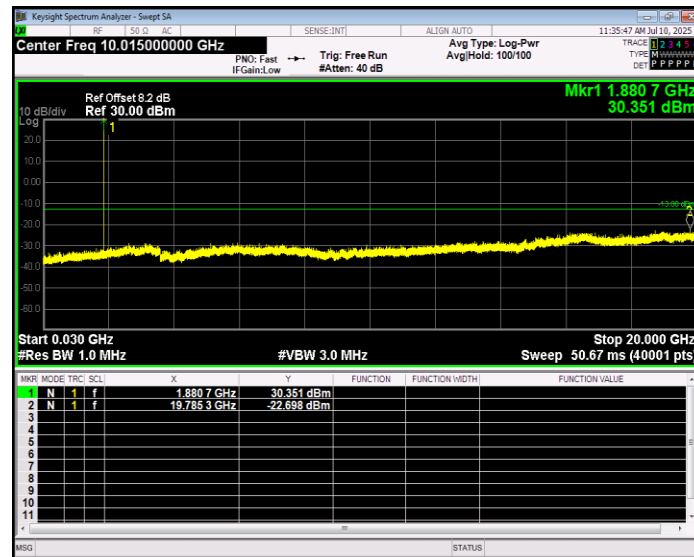
GSM1900 Channel=512



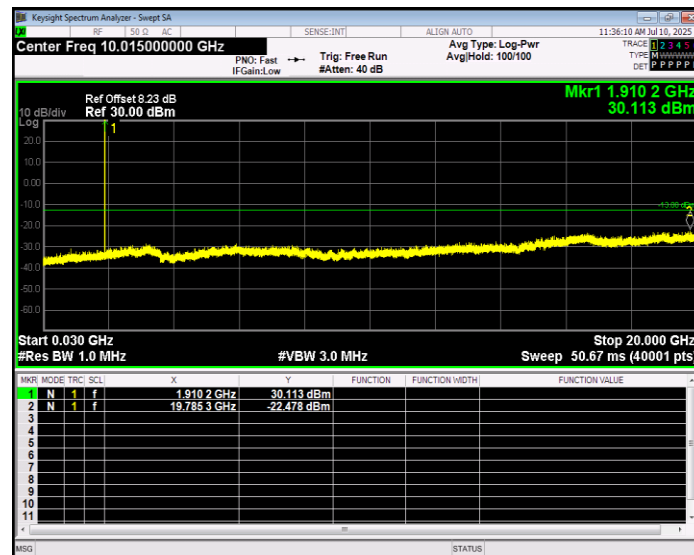


Report

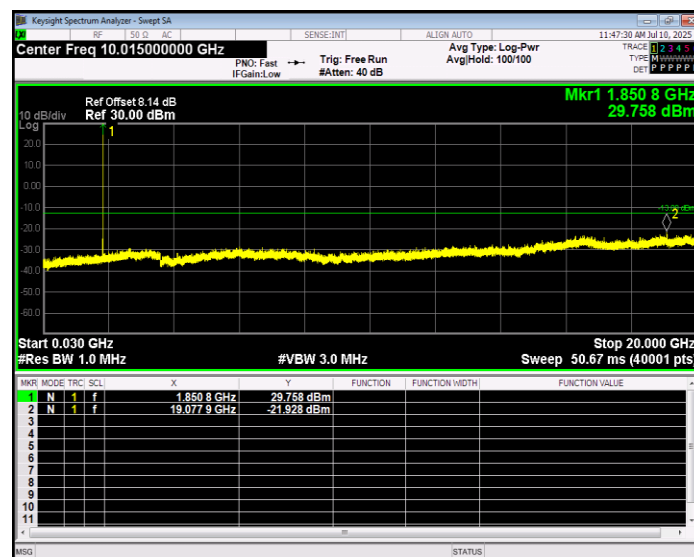
GSM1900 Channel=661



GSM1900 Channel=810



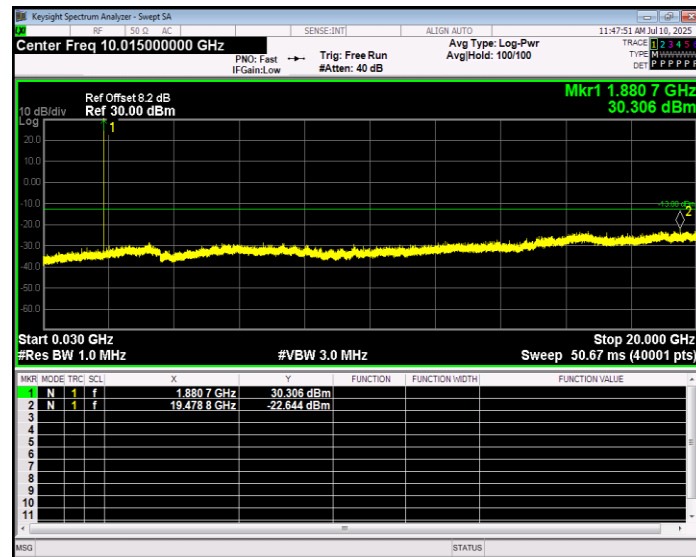
GPRS1900 Channel=512



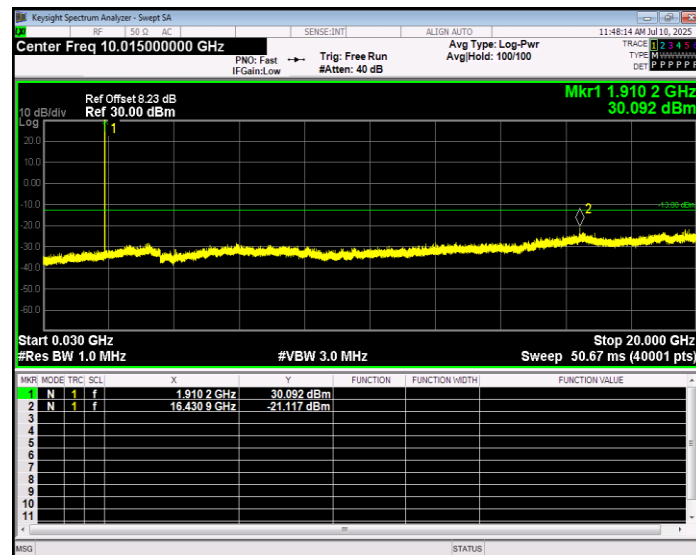


Report

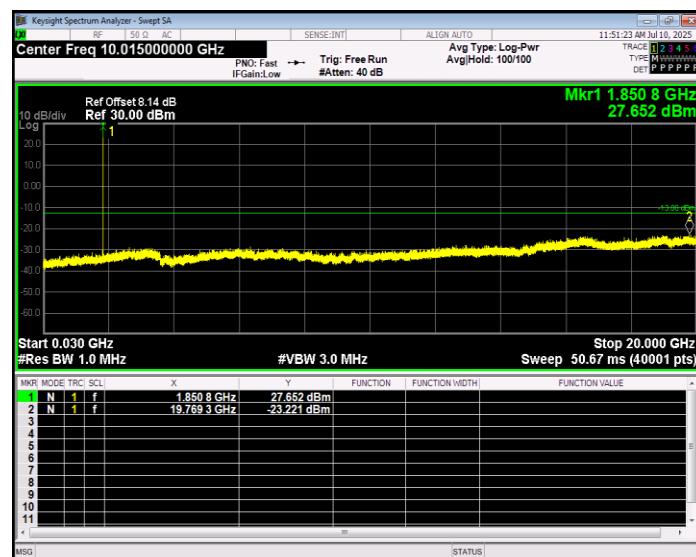
GPRS1900 Channel=661



GPRS1900 Channel=810



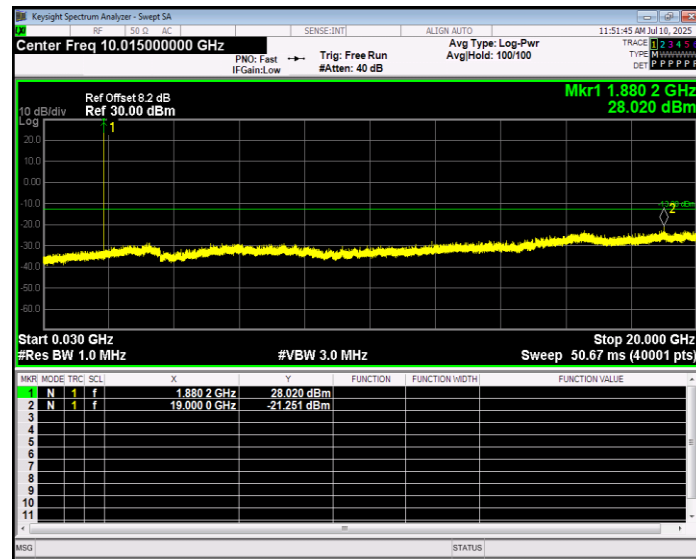
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810

