



Report

Contents

Conducted output power	2
Frequency stability	4
Peak-to-Average Ratio.....	5
Occupied bandwidth.....	15
Band edge.....	22
Out-of-band emissions.....	27



Report

Conducted output power

Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	ERP (dBm)	ERP Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
GSM850	128	824.2	33.69	-2.2	29.34	38.45	31.49	38.45	PASS
GSM850	190	836.6	34.07	-2.2	29.72	38.45	31.87	38.45	PASS
GSM850	251	848.8	34.31	-2.2	29.96	38.45	32.11	38.45	PASS
GPRS850 1 Slot	128	824.2	33.75	-2.2	29.40	38.45	31.55	38.45	PASS
GPRS850 1 Slot	190	836.6	34.11	-2.2	29.76	38.45	31.91	38.45	PASS
GPRS850 1 Slot	251	848.8	34.35	-2.2	30.00	38.45	32.15	38.45	PASS
GPRS850 2 Slot	128	824.2	31.97	-2.2	27.62	38.45	29.77	38.45	PASS
GPRS850 2 Slot	190	836.6	32.43	-2.2	28.08	38.45	30.23	38.45	PASS
GPRS850 2 Slot	251	848.8	32.65	-2.2	28.30	38.45	30.45	38.45	PASS
GPRS850 3 Slot	128	824.2	30.45	-2.2	26.10	38.45	28.25	38.45	PASS
GPRS850 3 Slot	190	836.6	30.86	-2.2	26.51	38.45	28.66	38.45	PASS
GPRS850 3 Slot	251	848.8	31.04	-2.2	26.69	38.45	28.84	38.45	PASS
GPRS850 4 Slot	128	824.2	29.17	-2.2	24.82	38.45	26.97	38.45	PASS
GPRS850 4 Slot	190	836.6	29.64	-2.2	25.29	38.45	27.44	38.45	PASS
GPRS850 4 Slot	251	848.8	29.78	-2.2	25.43	38.45	27.58	38.45	PASS
EGPRS850 1 Slot	128	824.2	26.64	-2.2	22.29	38.45	24.44	38.45	PASS
EGPRS850 1 Slot	190	836.6	27.19	-2.2	22.84	38.45	24.99	38.45	PASS
EGPRS850 1 Slot	251	848.8	27.37	-2.2	23.02	38.45	25.17	38.45	PASS
EGPRS850 2 Slot	128	824.2	26.73	-2.2	22.38	38.45	24.53	38.45	PASS
EGPRS850 2 Slot	190	836.6	26.94	-2.2	22.59	38.45	24.74	38.45	PASS
EGPRS850 2 Slot	251	848.8	26.75	-2.2	22.40	38.45	24.55	38.45	PASS
EGPRS850 3 Slot	128	824.2	25.25	-2.2	20.90	38.45	23.05	38.45	PASS
EGPRS850 3 Slot	190	836.6	25.71	-2.2	21.36	38.45	23.51	38.45	PASS
EGPRS850 3 Slot	251	848.8	25.08	-2.2	20.73	38.45	22.88	38.45	PASS
EGPRS850 4 Slot	128	824.2	23.98	-2.2	19.63	38.45	21.78	38.45	PASS
EGPRS850 4 Slot	190	836.6	24.51	-2.2	20.16	38.45	22.31	38.45	PASS
EGPRS850 4 Slot	251	848.8	24.44	-2.2	20.09	38.45	22.24	38.45	PASS



Report

Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	ERP (dBm)	ERP Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
GSM1900	512	1850.2	31.34	-1.2	27.99	33.01	30.14	33.01	PASS
GSM1900	661	1880	31.04	-1.2	27.69	33.01	29.84	33.01	PASS
GSM1900	810	1909.8	30.81	-1.2	27.46	33.01	29.61	33.01	PASS
GPRS1900 1 Slot	512	1850.2	31.53	-1.2	28.18	33.01	30.33	33.01	PASS
GPRS1900 1 Slot	661	1880	31.29	-1.2	27.94	33.01	30.09	33.01	PASS
GPRS1900 1 Slot	810	1909.8	31.05	-1.2	27.70	33.01	29.85	33.01	PASS
GPRS1900 2 Slot	512	1850.2	30.27	-1.2	26.92	33.01	29.07	33.01	PASS
GPRS1900 2 Slot	661	1880	29.81	-1.2	26.46	33.01	28.61	33.01	PASS
GPRS1900 2 Slot	810	1909.8	29.67	-1.2	26.32	33.01	28.47	33.01	PASS
GPRS1900 3 Slot	512	1850.2	28.01	-1.2	24.66	33.01	26.81	33.01	PASS
GPRS1900 3 Slot	661	1880	27.27	-1.2	23.92	33.01	26.07	33.01	PASS
GPRS1900 3 Slot	810	1909.8	27.19	-1.2	23.84	33.01	25.99	33.01	PASS
GPRS1900 4 Slot	512	1850.2	27.51	-1.2	24.16	33.01	26.31	33.01	PASS
GPRS1900 4 Slot	661	1880	26.73	-1.2	23.38	33.01	25.53	33.01	PASS
GPRS1900 4 Slot	810	1909.8	26.75	-1.2	23.40	33.01	25.55	33.01	PASS
EGPRS1900 1 Slot	512	1850.2	27.49	-1.2	24.14	33.01	26.29	33.01	PASS
EGPRS1900 1 Slot	661	1880	26.70	-1.2	23.35	33.01	25.50	33.01	PASS
EGPRS1900 1 Slot	810	1909.8	26.78	-1.2	23.43	33.01	25.58	33.01	PASS
EGPRS1900 2 Slot	512	1850.2	26.70	-1.2	23.35	33.01	25.50	33.01	PASS
EGPRS1900 2 Slot	661	1880	26.18	-1.2	22.83	33.01	24.98	33.01	PASS
EGPRS1900 2 Slot	810	1909.8	25.97	-1.2	22.62	33.01	24.77	33.01	PASS
EGPRS1900 3 Slot	512	1850.2	24.89	-1.2	21.54	33.01	23.69	33.01	PASS
EGPRS1900 3 Slot	661	1880	24.32	-1.2	20.97	33.01	23.12	33.01	PASS
EGPRS1900 3 Slot	810	1909.8	24.54	-1.2	21.19	33.01	23.34	33.01	PASS
EGPRS1900 4 Slot	512	1850.2	23.86	-1.2	20.51	33.01	22.66	33.01	PASS
EGPRS1900 4 Slot	661	1880	23.17	-1.2	19.82	33.01	21.97	33.01	PASS
EGPRS1900 4 Slot	810	1909.8	23.20	-1.2	19.85	33.01	22.00	33.01	PASS



Report

Frequency stability

Band	Channel	Frequency (MHz)	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
GSM850	128	824.2	0.26	0.000313	-2.5	2.5	PASS
GSM850	190	836.6	5.04	0.006020	-2.5	2.5	PASS
GSM850	251	848.8	2.52	0.002967	-2.5	2.5	PASS
GPRS850	128	824.2	14.69	0.017823	-2.5	2.5	PASS
GPRS850	190	836.6	13.56	0.016209	-2.5	2.5	PASS
GPRS850	251	848.8	16.05	0.018904	-2.5	2.5	PASS
EGPRS850	128	824.2	26.70	0.032396	-2.5	2.5	PASS
EGPRS850	190	836.6	14.79	0.017675	-2.5	2.5	PASS
EGPRS850	251	848.8	14.69	0.017307	-2.5	2.5	PASS
GSM1900	512	1850.2	-8.88	-0.004799	-2.5	2.5	PASS
GSM1900	661	1880	-5.13	-0.002731	-2.5	2.5	PASS
GSM1900	810	1909.8	-13.69	-0.007168	-2.5	2.5	PASS
GPRS1900	512	1850.2	5.29	0.002862	-2.5	2.5	PASS
GPRS1900	661	1880	3.81	0.002026	-2.5	2.5	PASS
GPRS1900	810	1909.8	-0.90	-0.000473	-2.5	2.5	PASS
EGPRS1900	512	1850.2	-3.68	-0.001989	-2.5	2.5	PASS
EGPRS1900	661	1880	6.36	0.003383	-2.5	2.5	PASS
EGPRS1900	810	1909.8	4.97	0.002603	-2.5	2.5	PASS



Report

Peak-to-Average Ratio

GSM 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-2.16	-0.003	2.5ppm	PASS
40		-2.06	-0.002		
30		-2.14	-0.003		
20		2.69	0.003		
10		2.16	0.003		
0		-2.21	-0.003		
-10		-2.05	-0.002		
-20		2.46	0.003		
-30		2.03	0.002		
20	Maximum Voltage	-2.01	-0.002		
20	BEP	-2.42	-0.003		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-1.92	-0.002	2.5ppm	PASS
40		2.30	0.003		
30		-2.31	-0.003		
20		2.73	0.003		
10		-2.09	-0.003		
0		-2.47	-0.003		
-10		-2.42	-0.003		
-20		2.26	0.003		
-30		2.47	0.003		
20	Maximum Voltage	2.03	0.002		
20	BEP	2.48	0.003		



Report

EGPRS 850 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-5.62	-0.007	2.5ppm	PASS
40		-5.68	-0.007		
30		-5.80	-0.007		
20		9.37	0.011		
10		-5.51	-0.007		
0		-5.32	-0.006		
-10		-5.28	-0.006		
-20		5.38	0.006		
-30		-5.32	-0.006		
20	Maximum Voltage	5.52	0.007		
20	BEP	-5.46	-0.007		

GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	2.29	0.001	Within Authorized Band	PASS
40		-2.07	-0.001		
30		-2.30	-0.001		
20		2.72	0.001		
10		-2.33	-0.001		
0		-2.00	-0.001		
-10		-2.38	-0.001		
-20		2.41	0.001		
-30		2.00	0.001		
20	Maximum Voltage	1.93	0.001		
20	BEP	2.01	0.001		



Report

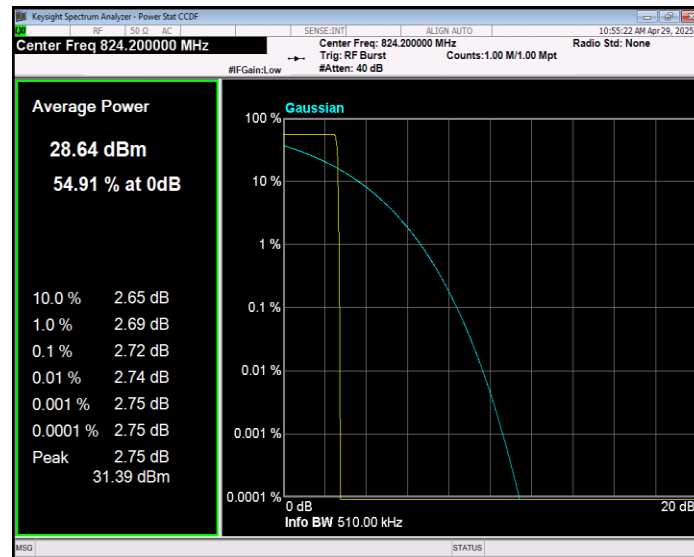
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Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	1.90	0.001	Within Authorized Band	PASS
40		-2.06	-0.001		
30		-2.23	-0.001		
20		2.75	0.001		
10		-2.06	-0.001		
0		1.95	0.001		
-10		-2.15	-0.001		
-20		-2.20	-0.001		
-30		-2.27	-0.001		
20	Maximum Voltage	2.04	0.001		
20	BEP	-2.00	-0.001		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	4.33	0.002	Within Authorized Band	PASS
40		-4.24	-0.002		
30		-4.41	-0.002		
20		6.90	0.004		
10		4.09	0.002		
0		-4.24	-0.002		
-10		4.12	0.002		
-20		4.15	0.002		
-30		4.43	0.002		
20	Maximum Voltage	-4.56	-0.002		
20	BEP	-4.20	-0.002		

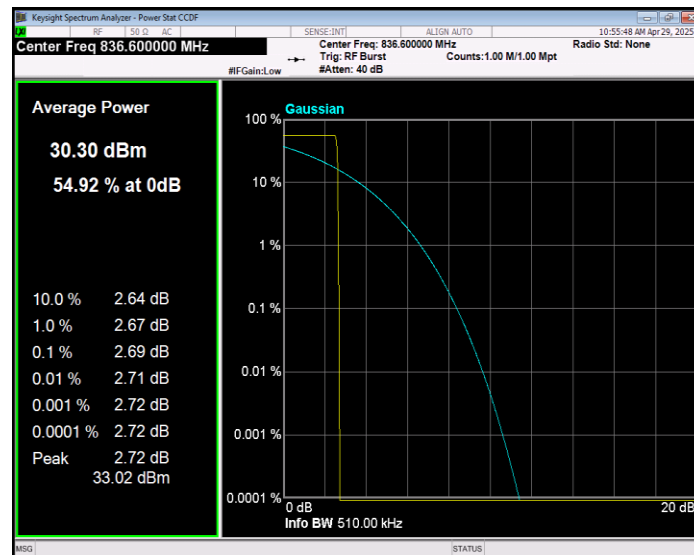


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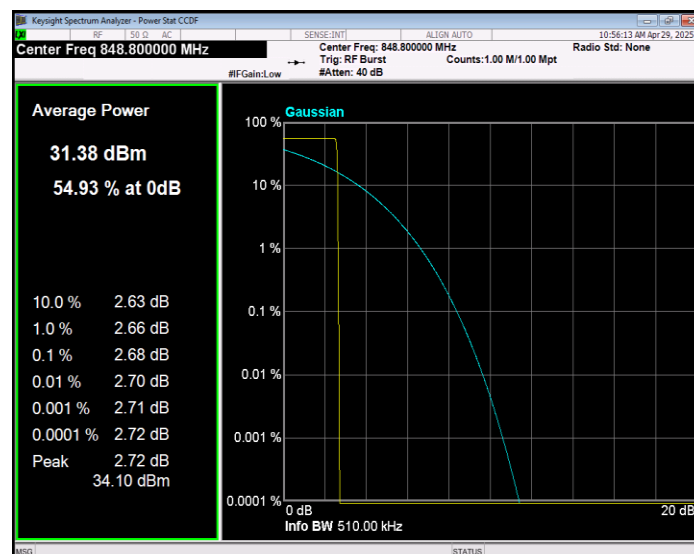
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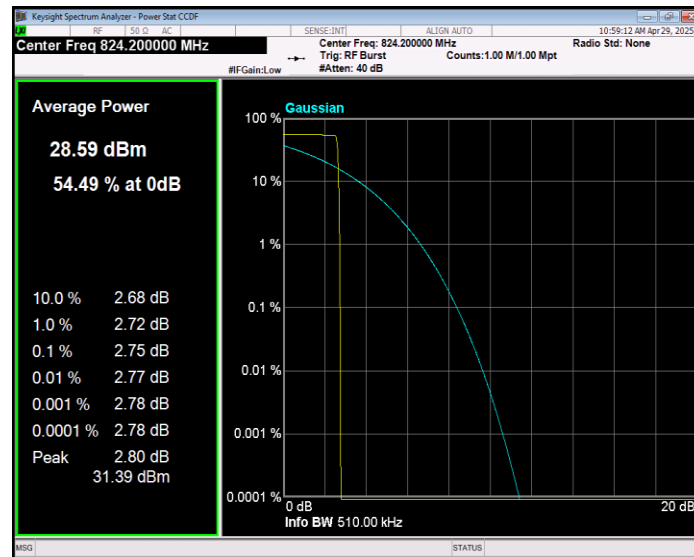
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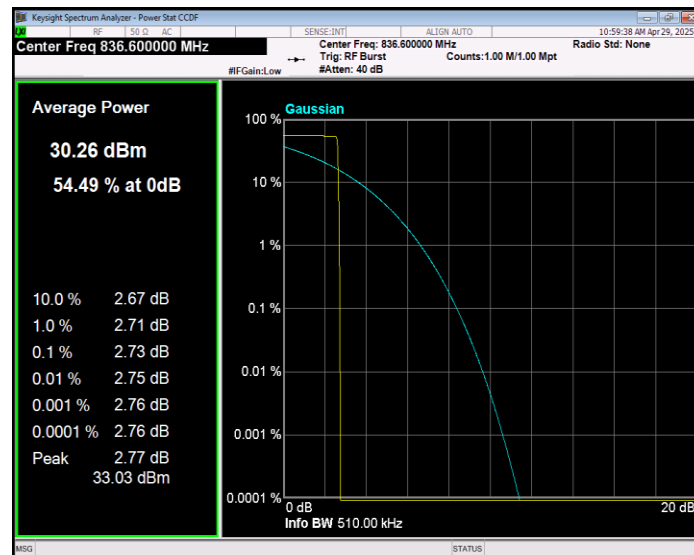


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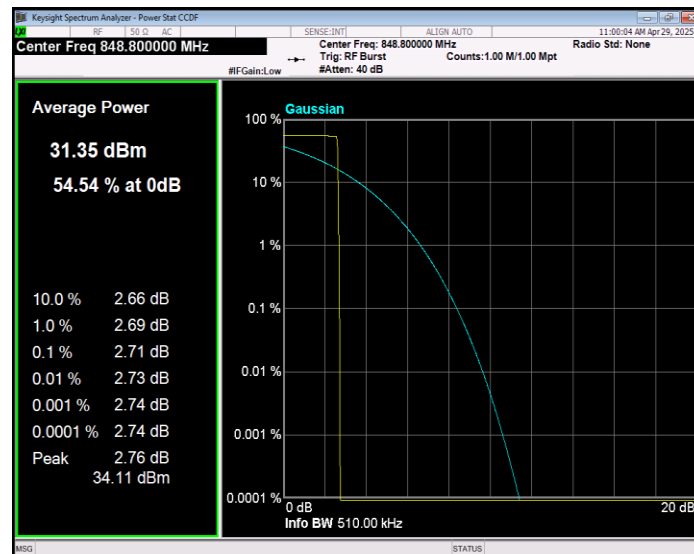
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GPRS850 Channel=251



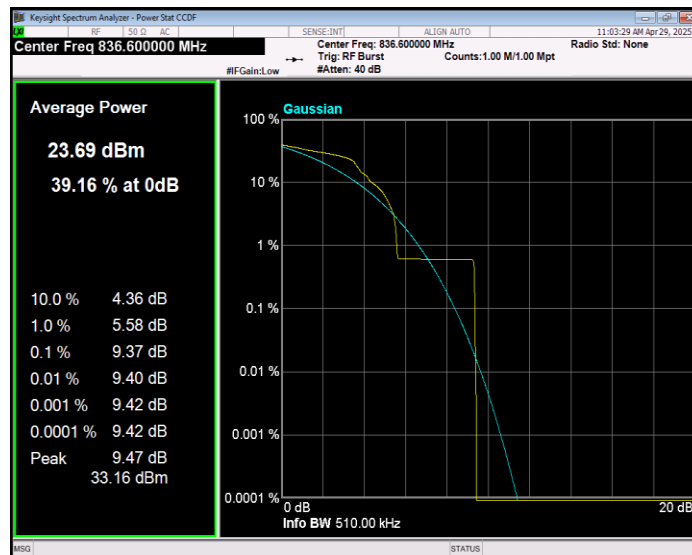


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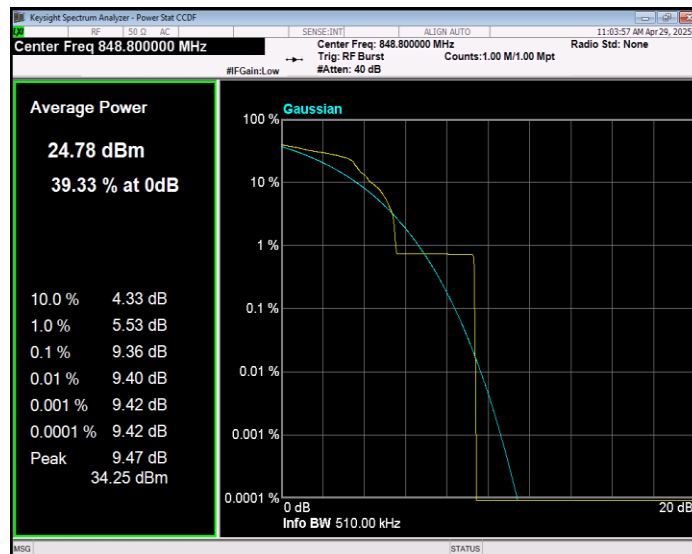
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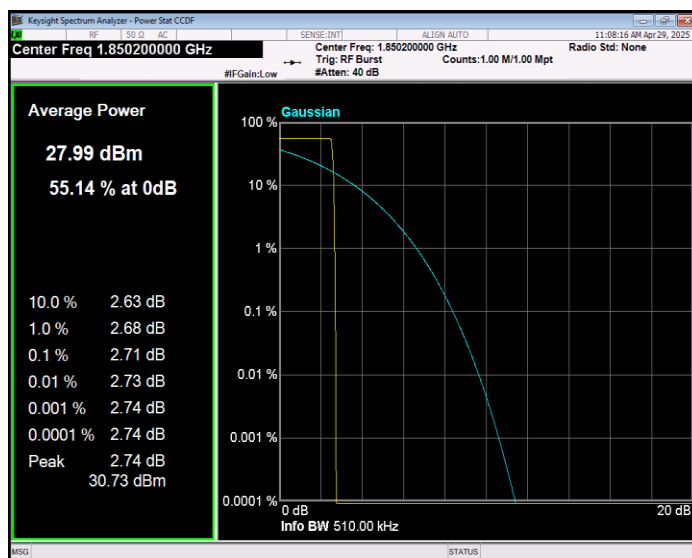
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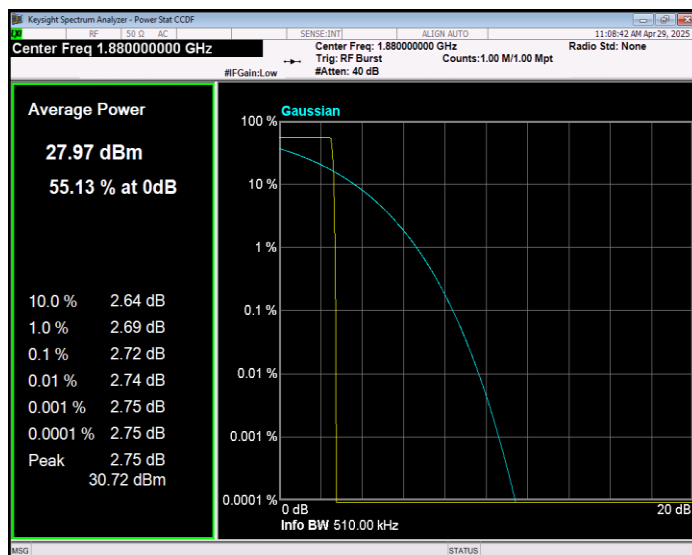


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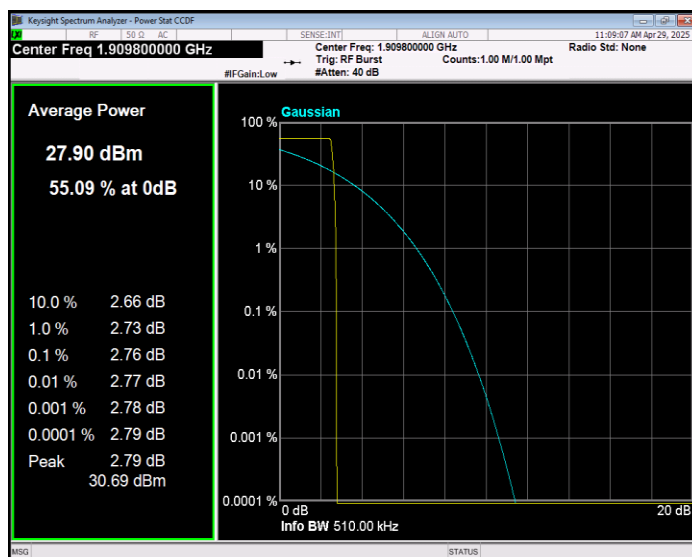
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GSM1900 Channel=661



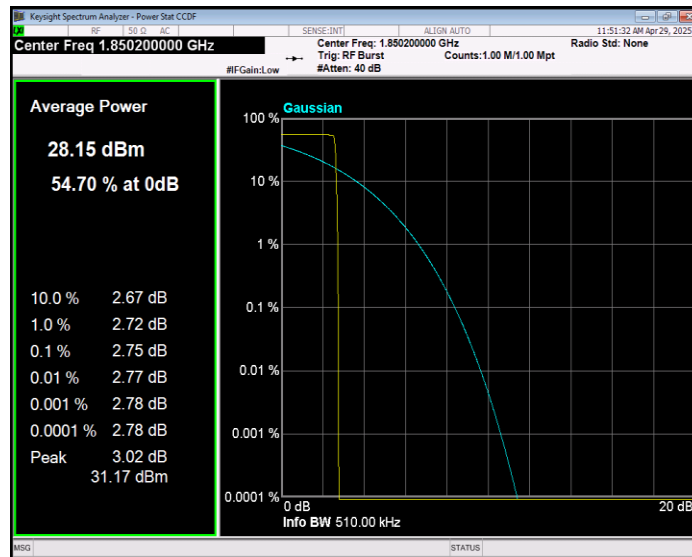
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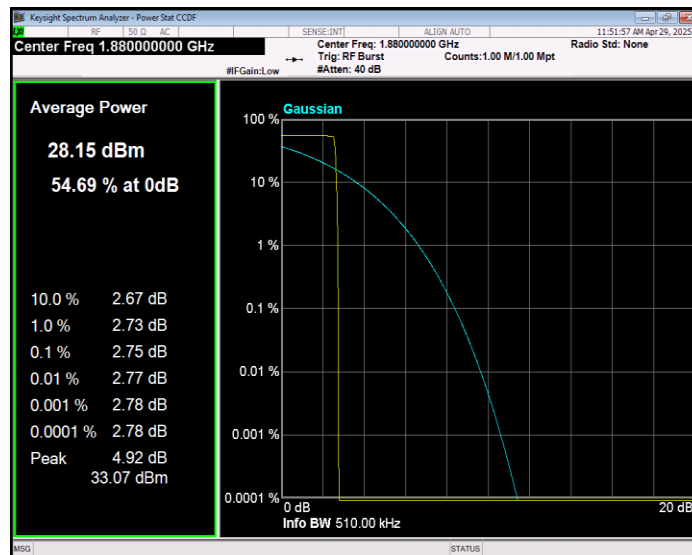


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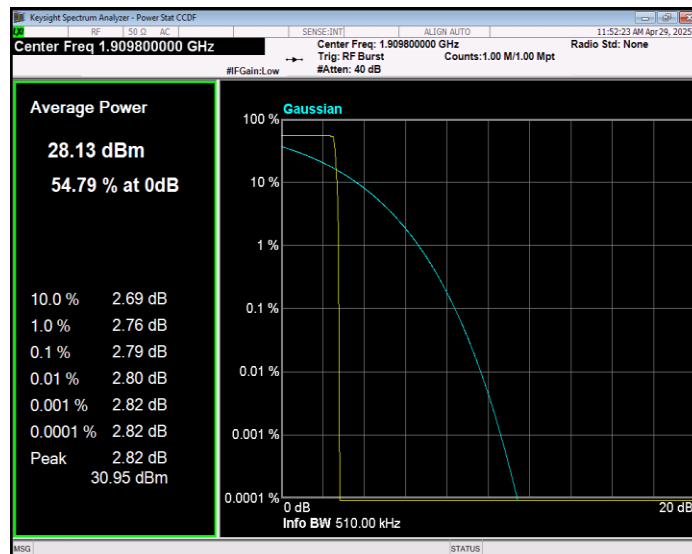
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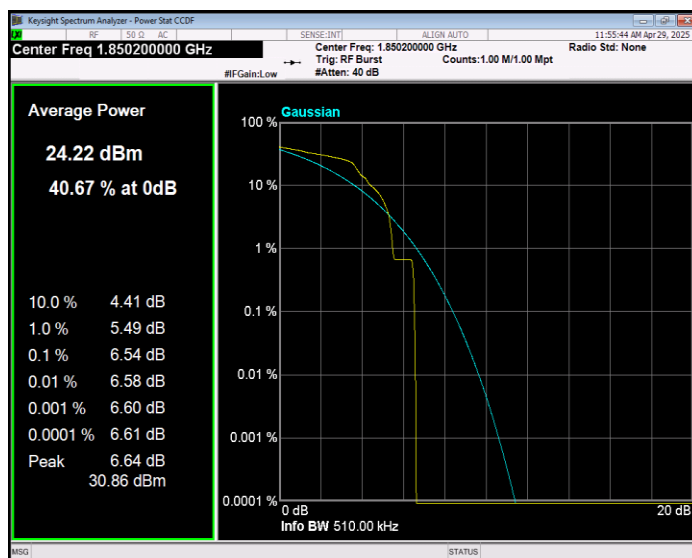
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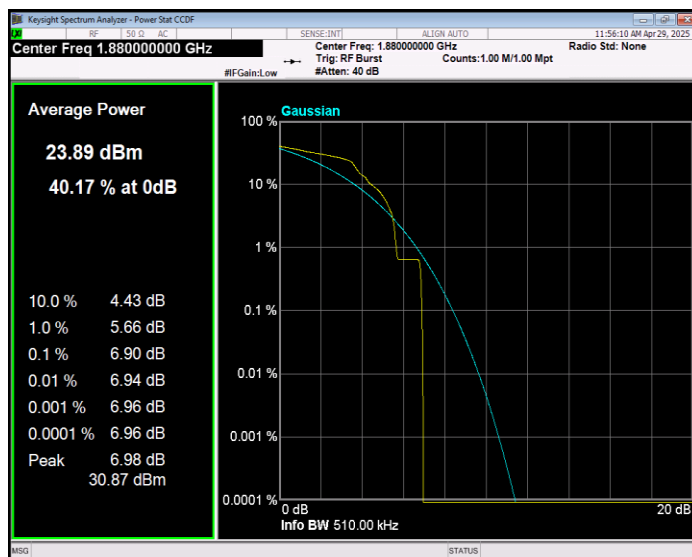


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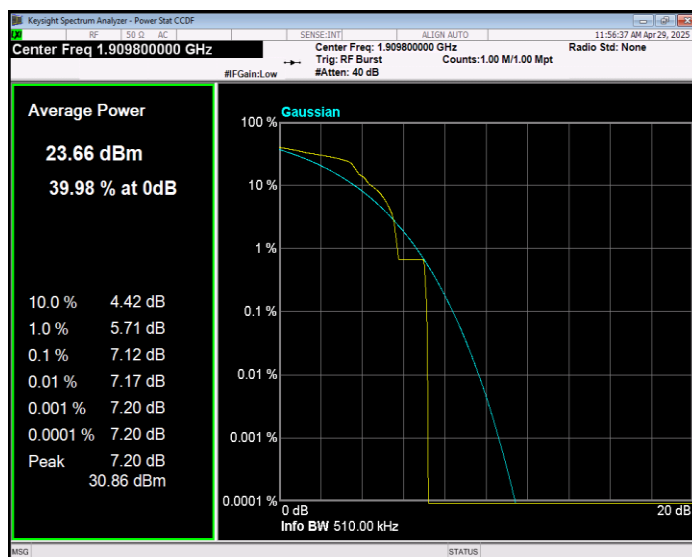
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EGPRS1900 Channel=661



EGPRS1900 Channel=810





Report

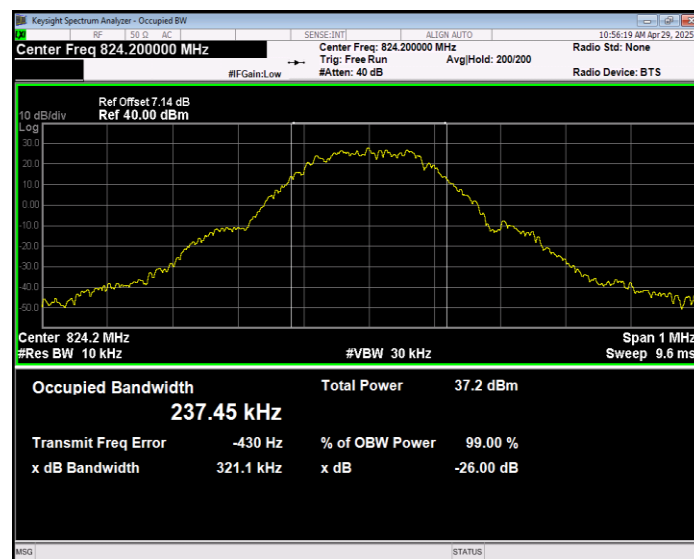


Report

Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	237.454	321.103	PASS
GSM850	190	836.6	242.634	311.264	PASS
GSM850	251	848.8	248.561	315.680	PASS
GPRS850	128	824.2	241.689	301.673	PASS
GPRS850	190	836.6	241.319	311.817	PASS
GPRS850	251	848.8	238.706	313.262	PASS
EGPRS850	128	824.2	244.751	301.413	PASS
EGPRS850	190	836.6	251.534	291.104	PASS
EGPRS850	251	848.8	258.445	309.445	PASS
GSM1900	512	1850.2	243.199	313.602	PASS
GSM1900	661	1880	248.046	303.969	PASS
GSM1900	810	1909.8	244.510	314.305	PASS
GPRS1900	512	1850.2	249.140	313.612	PASS
GPRS1900	661	1880	241.382	311.421	PASS
GPRS1900	810	1909.8	242.117	321.305	PASS
EGPRS1900	512	1850.2	245.451	311.848	PASS
EGPRS1900	661	1880	246.430	296.144	PASS
EGPRS1900	810	1909.8	251.458	321.495	PASS

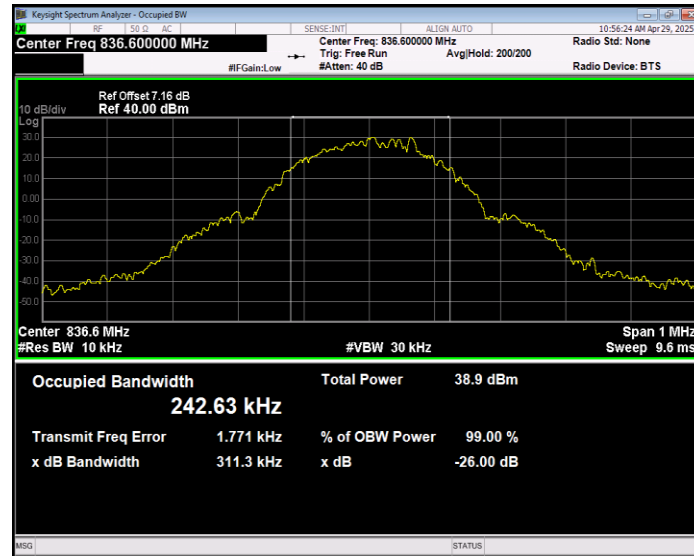
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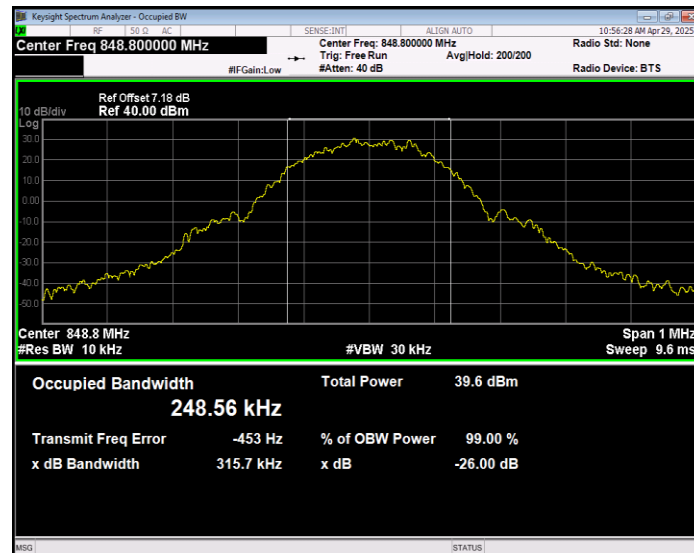
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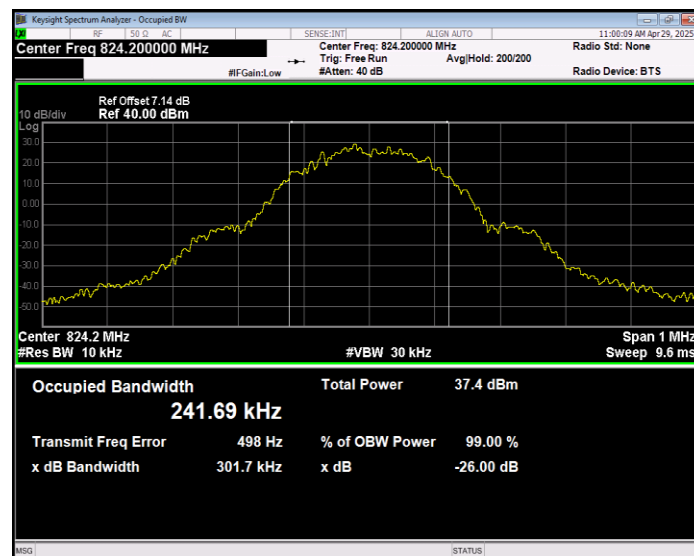
Report



GSM850 Channel=251



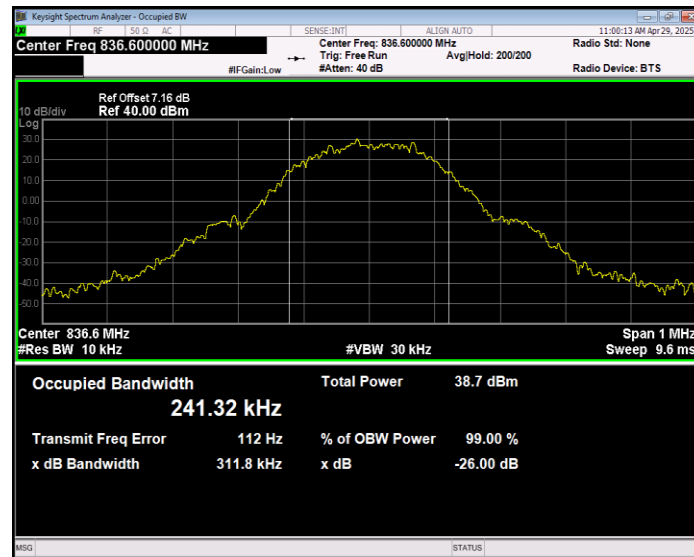
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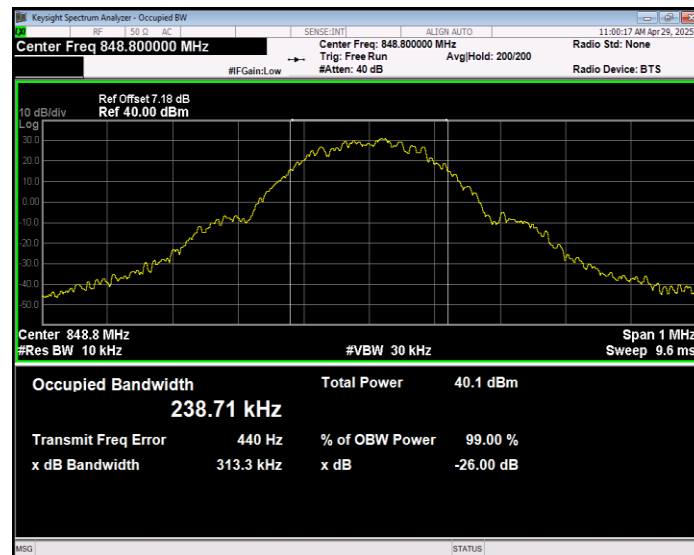


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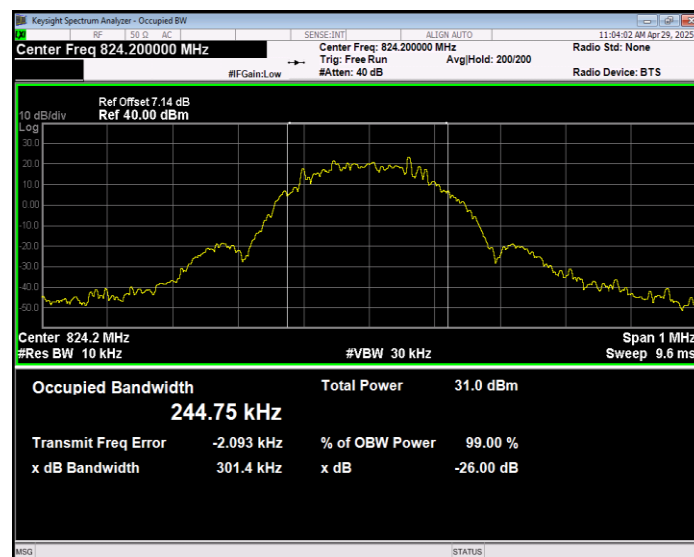
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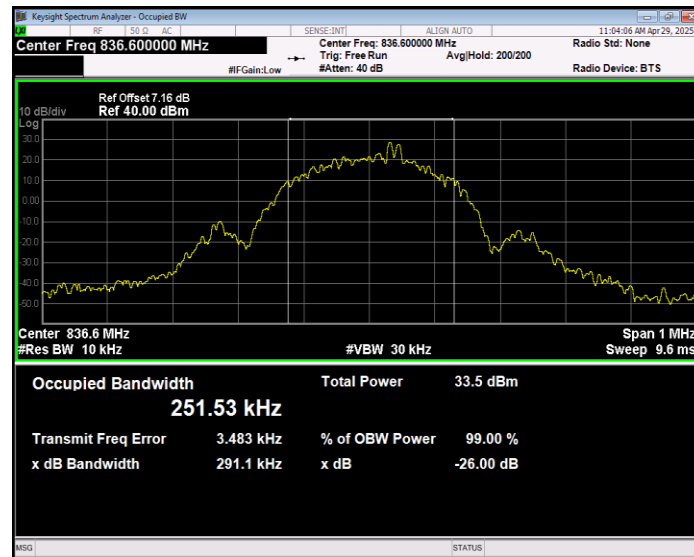
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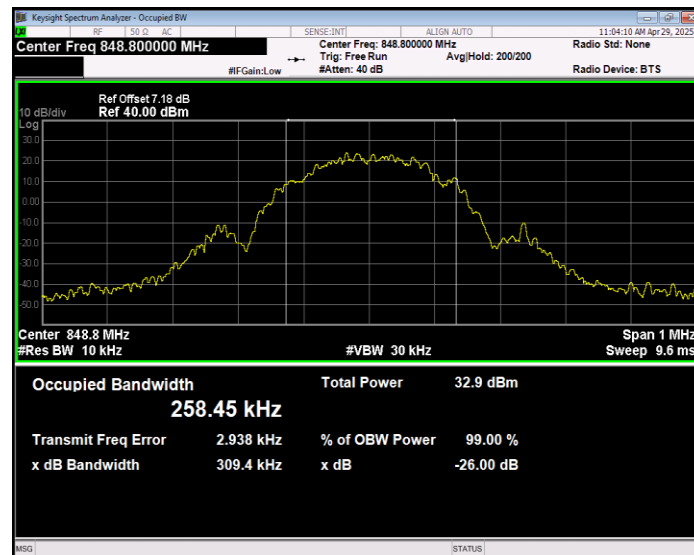


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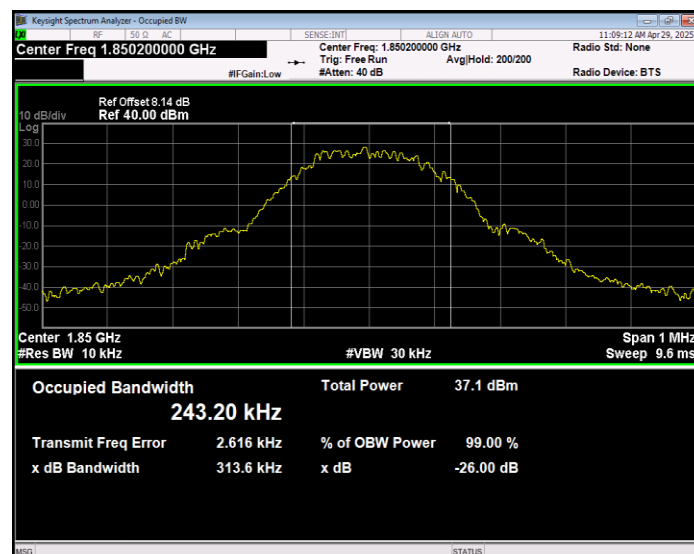
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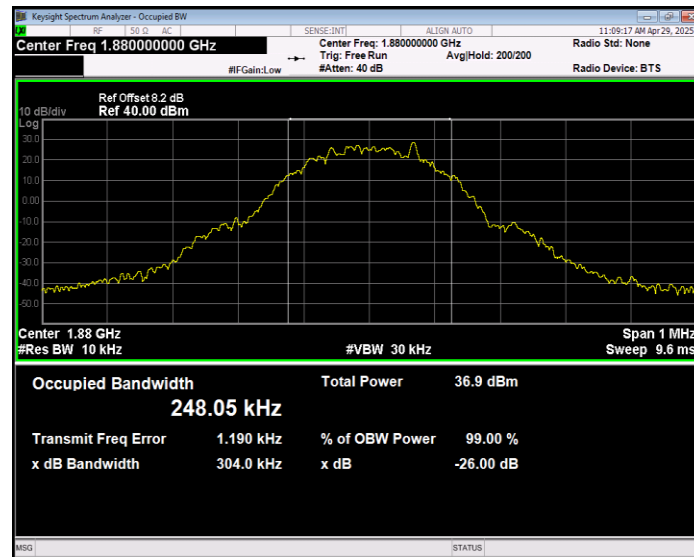
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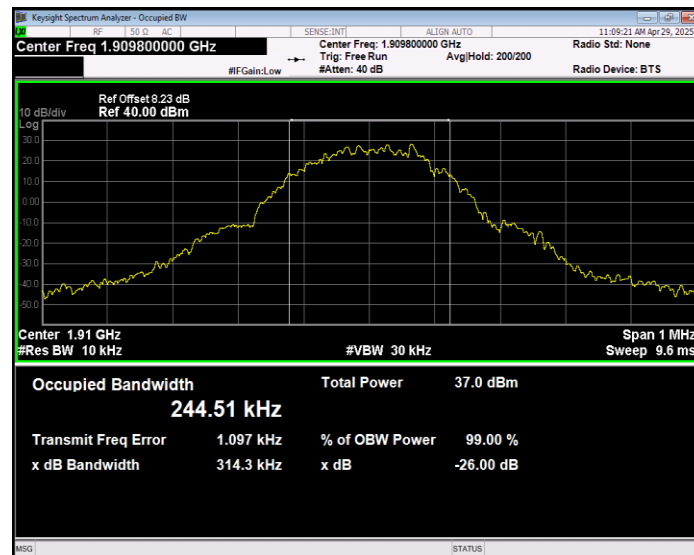


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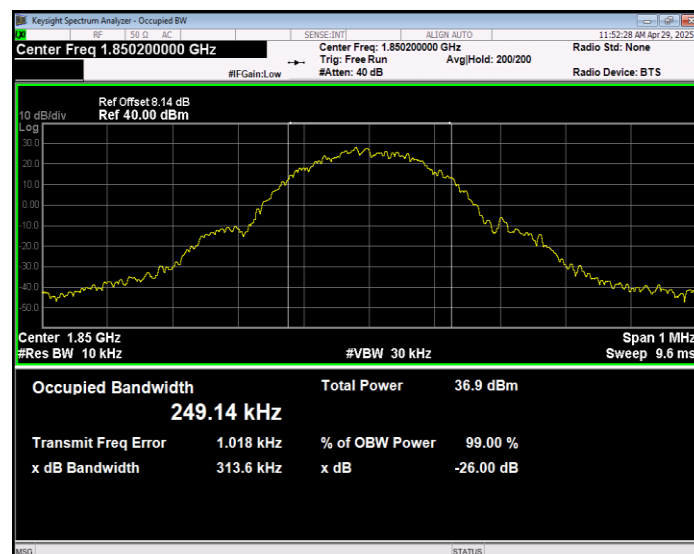
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GSM1900 Channel=810



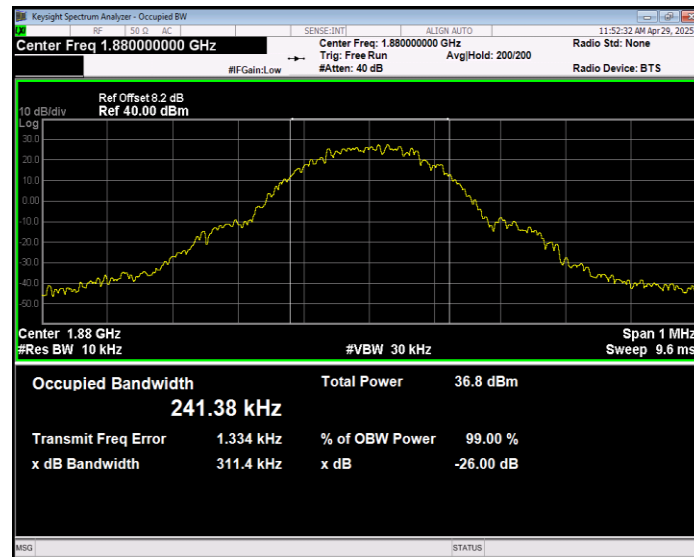
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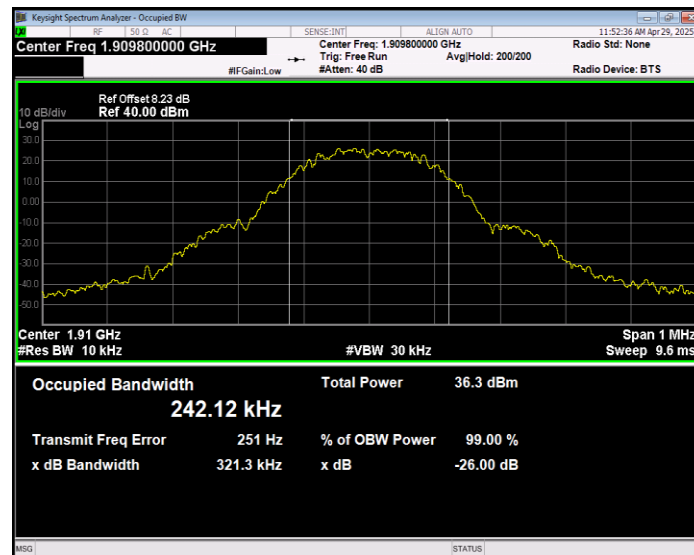


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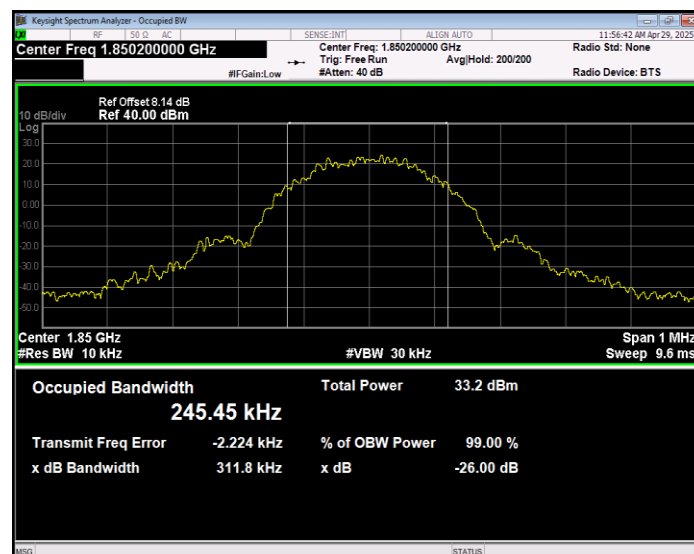
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GPRS1900 Channel=810



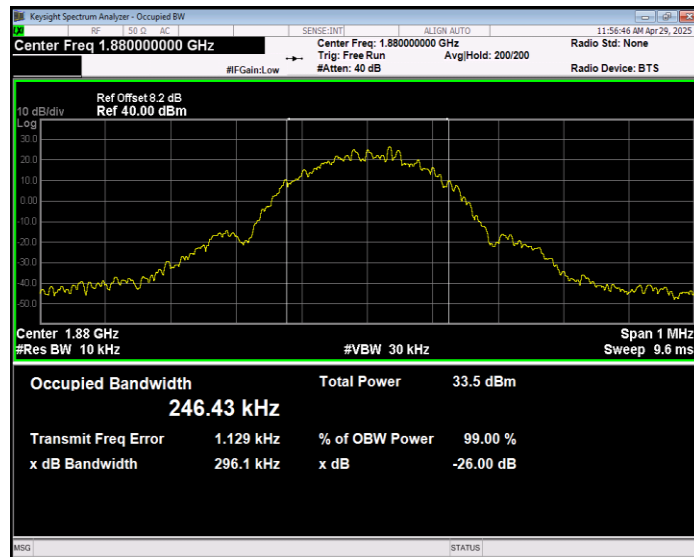
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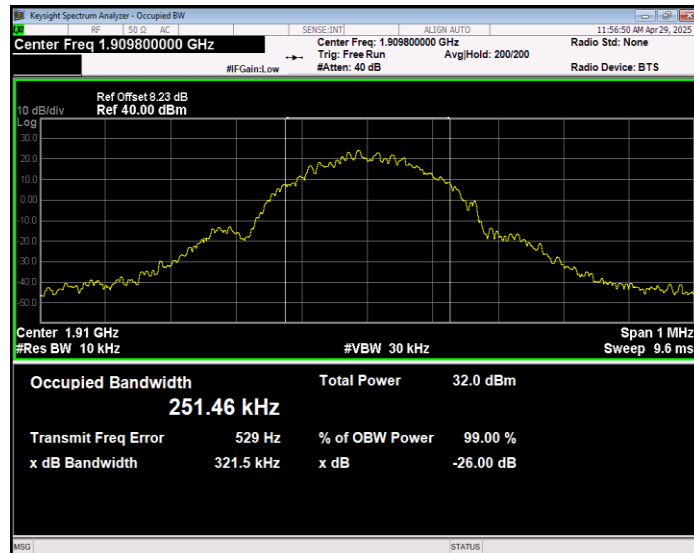


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



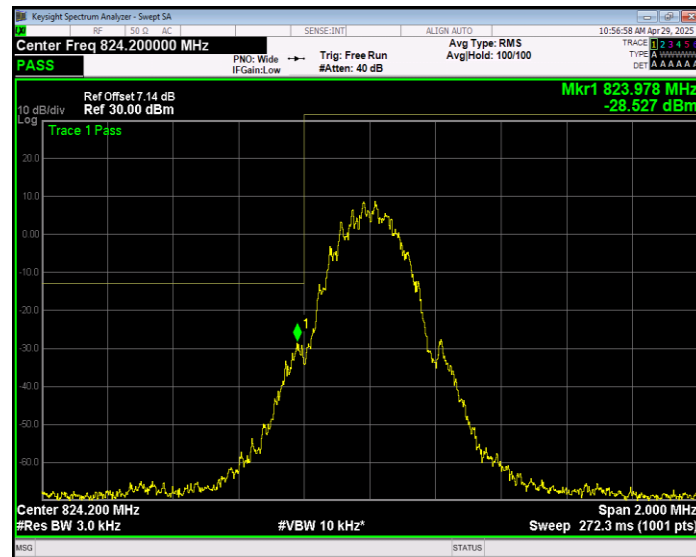


Report

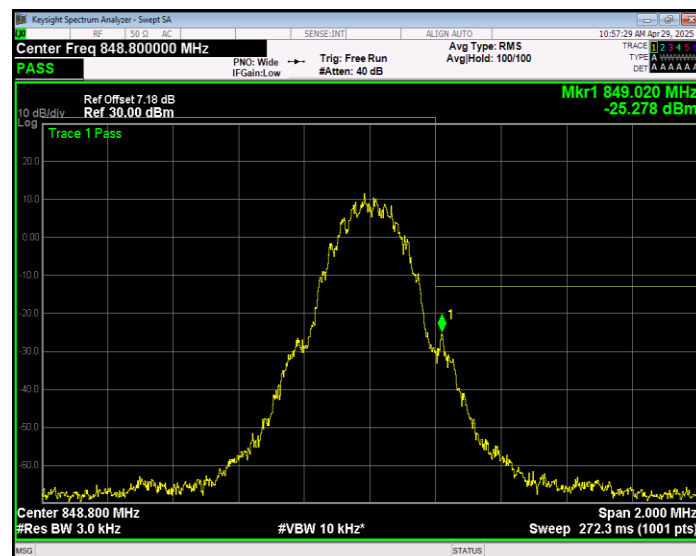
Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	823.98	-28.52	-13	PASS
GSM850	251	848.8	849.02	-25.27	-13	PASS
GPRS850	128	824.2	823.98	-28.12	-13	PASS
GPRS850	251	848.8	849.02	-26.31	-13	PASS
EGPRS850	128	824.2	823.97	-37.76	-13	PASS
EGPRS850	251	848.8	849.02	-35.74	-13	PASS
GSM1900	512	1850.2	1850.00	-27.64	-13	PASS
GSM1900	810	1909.8	1910.02	-28.44	-13	PASS
GPRS1900	512	1850.2	1849.98	-29.08	-13	PASS
GPRS1900	810	1909.8	1910.02	-29.52	-13	PASS
EGPRS1900	512	1850.2	1849.98	-34.70	-13	PASS
EGPRS1900	810	1909.8	1910.01	-36.82	-13	PASS

GSM850 Channel=128



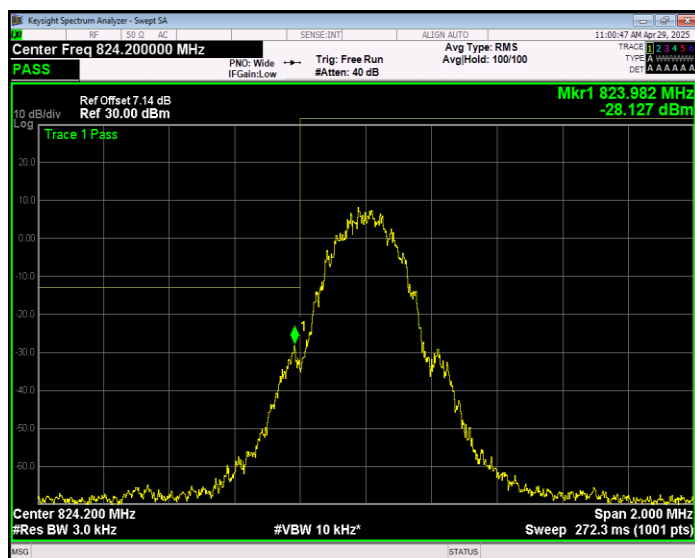
GSM850 Channel=251



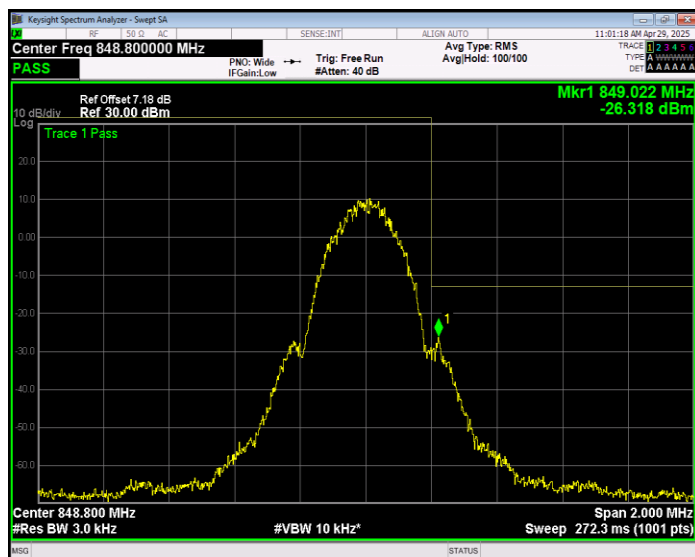


Report

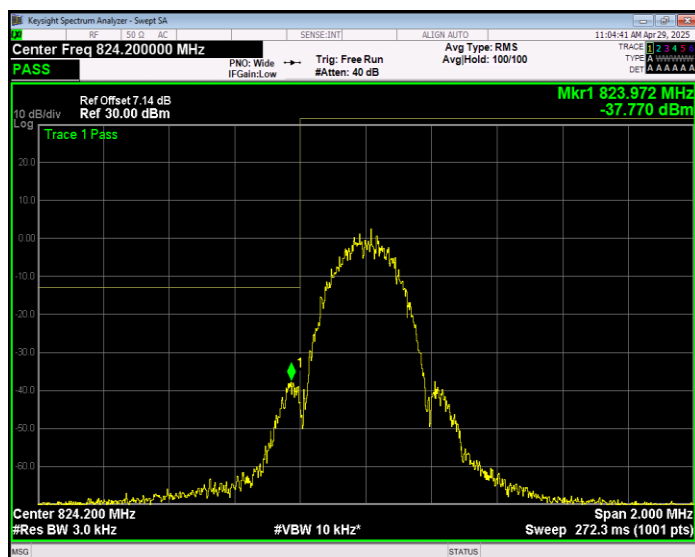
GPRS850 Channel=128



GPRS850 Channel=251



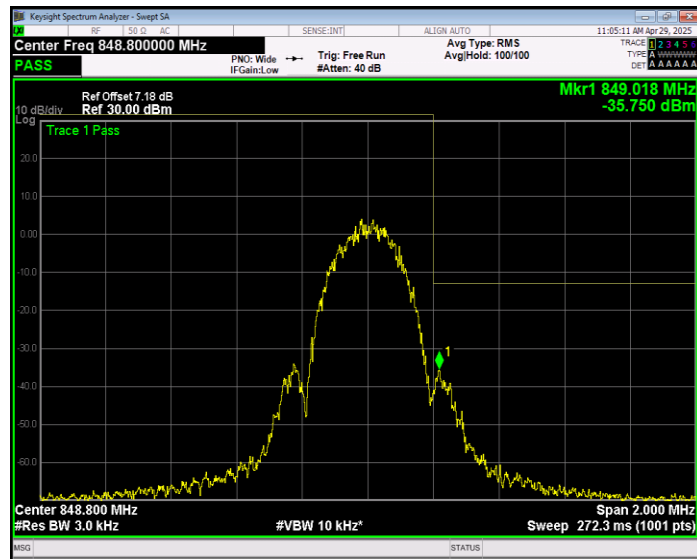
EGPRS850 Channel=128



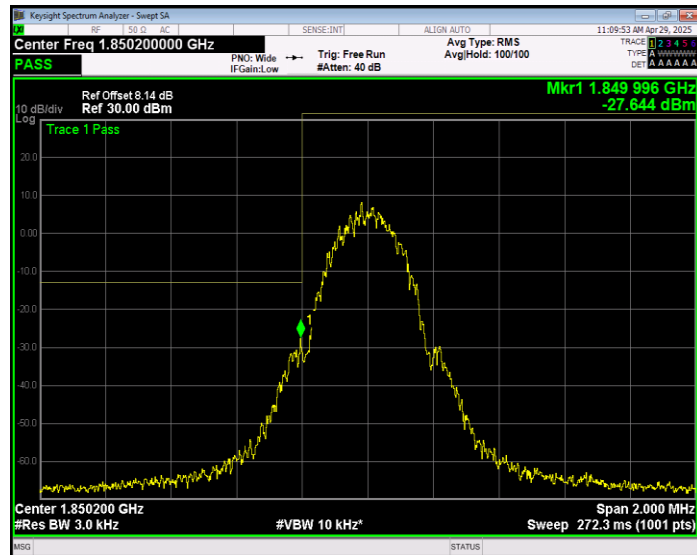


Report

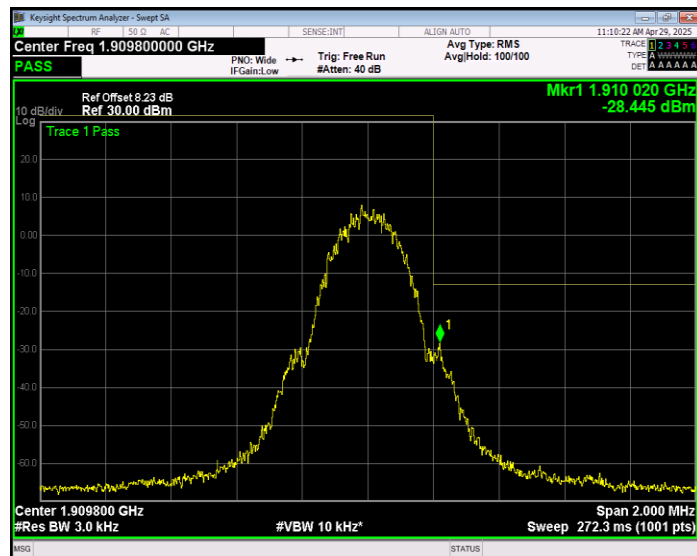
EGPRS850 Channel=251



GSM1900 Channel=512



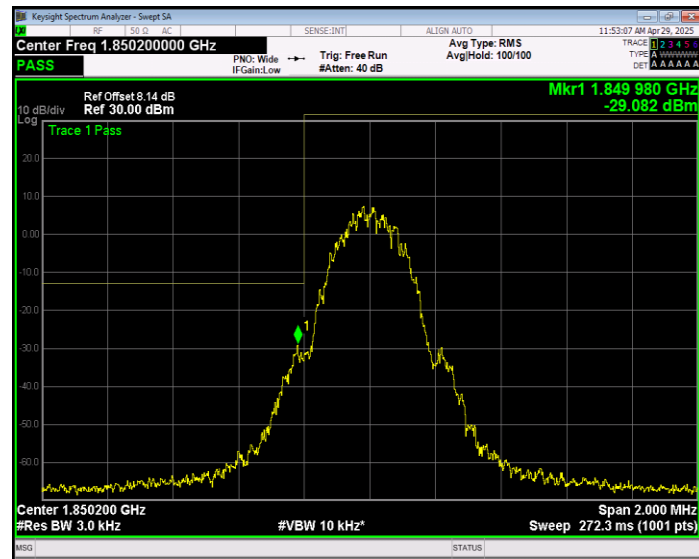
GSM1900 Channel=810



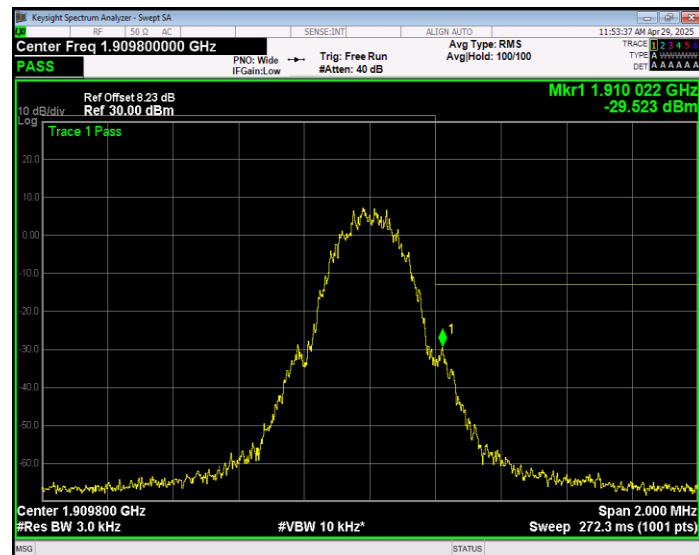


Report

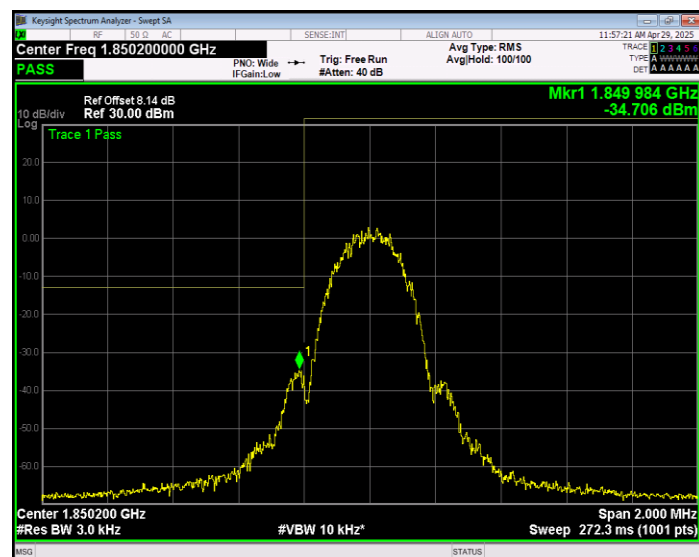
GPRS1900 Channel=512



GPRS1900 Channel=810



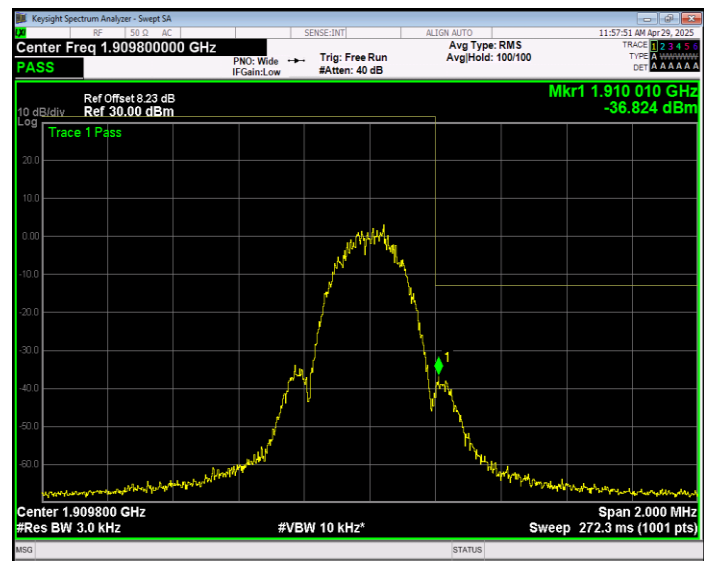
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=810



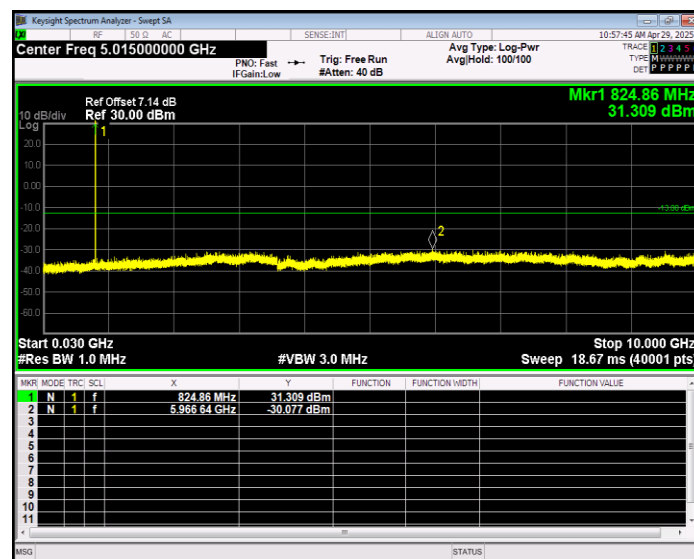


Report

Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	5966.64	-30.07	-13	PASS
GSM850	190	836.6	6830.04	-29.39	-13	PASS
GSM850	251	848.8	7266.72	-29.58	-13	PASS
GPRS850	128	824.2	8080.03	-29.33	-13	PASS
GPRS850	190	836.6	7347.23	-29.93	-13	PASS
GPRS850	251	848.8	7072.81	-29.58	-13	PASS
EGPRS850	128	824.2	6053.38	-29.98	-13	PASS
EGPRS850	190	836.6	5280.20	-29.78	-13	PASS
EGPRS850	251	848.8	5502.53	-29.26	-13	PASS
GSM1900	512	1850.2	18966.05	-22.91	-13	PASS
GSM1900	661	1880	19106.34	-22.63	-13	PASS
GSM1900	810	1909.8	18713.43	-22.76	-13	PASS
GPRS1900	512	1850.2	19988.52	-22.74	-13	PASS
GPRS1900	661	1880	19639.54	-22.59	-13	PASS
GPRS1900	810	1909.8	19363.46	-22.87	-13	PASS
EGPRS1900	512	1850.2	19993.51	-22.45	-13	PASS
EGPRS1900	661	1880	16503.75	-22.62	-13	PASS
EGPRS1900	810	1909.8	19013.98	-22.80	-13	PASS

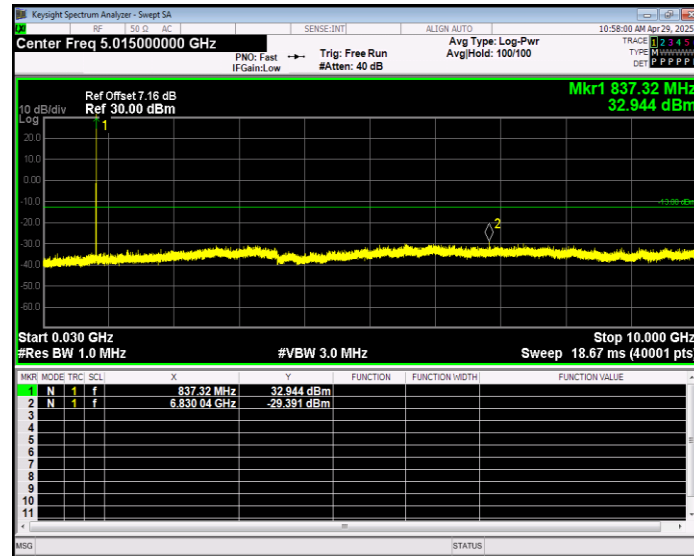
GSM850 Channel=128



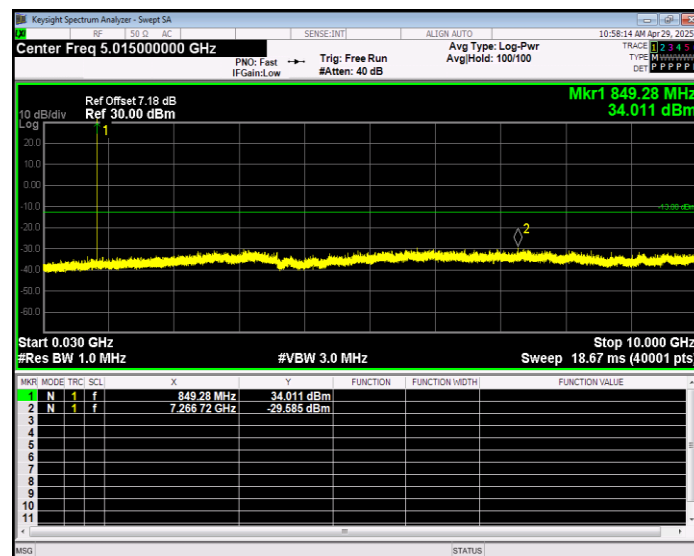
GSM850 Channel=190



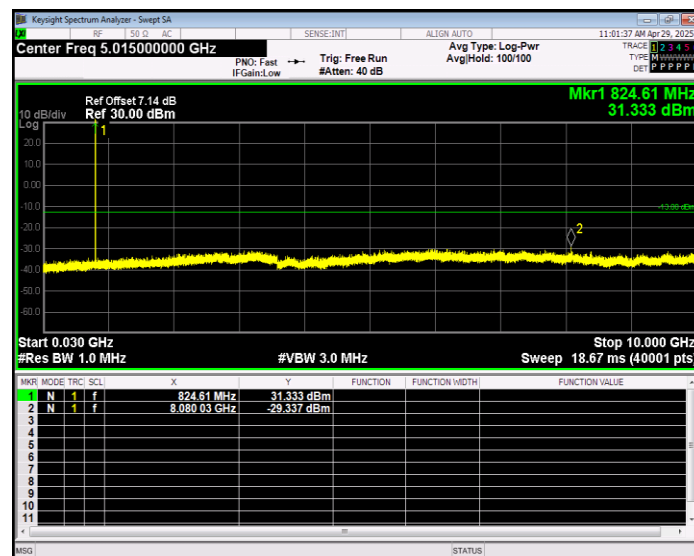
Report



GSM850 Channel=251



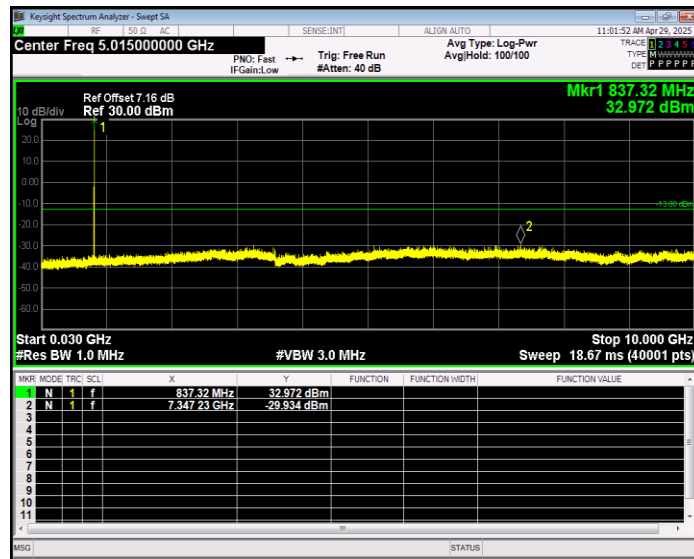
GPRS850 Channel=128



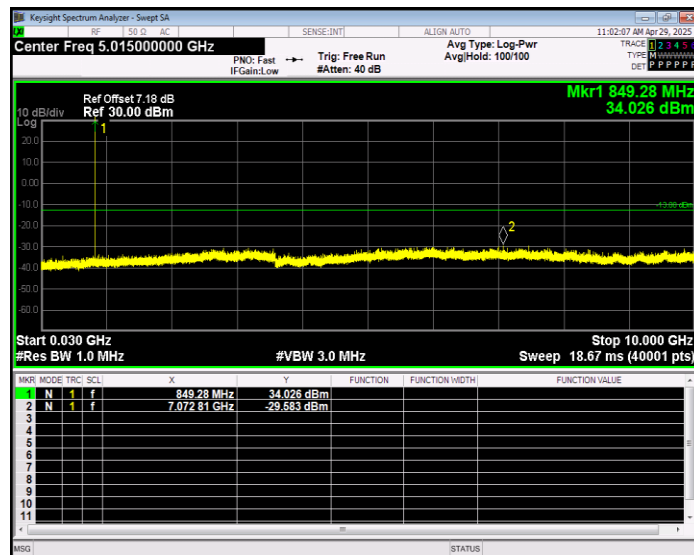


Report

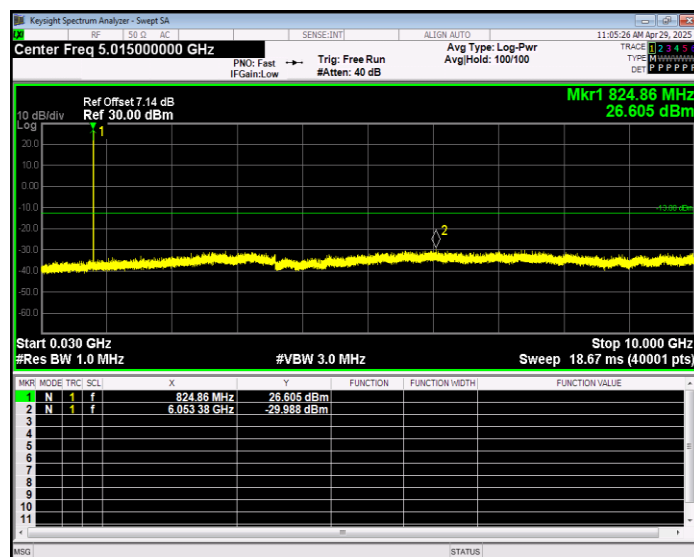
GPRS850 Channel=190



GPRS850 Channel=251



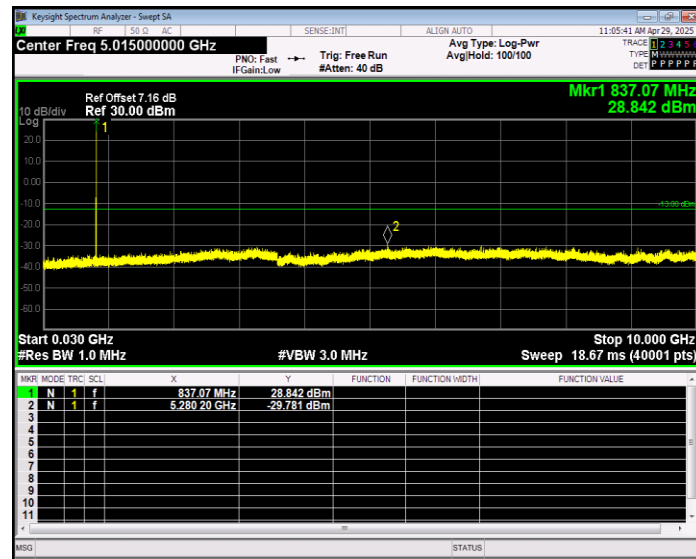
EGPRS850 Channel=128



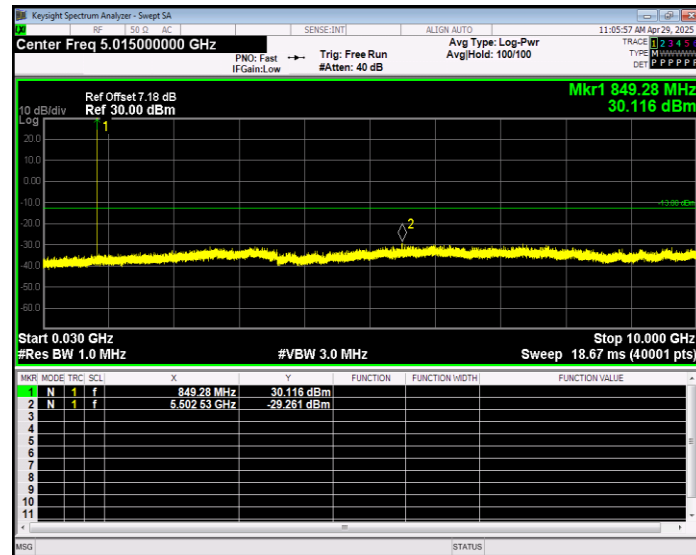


Report

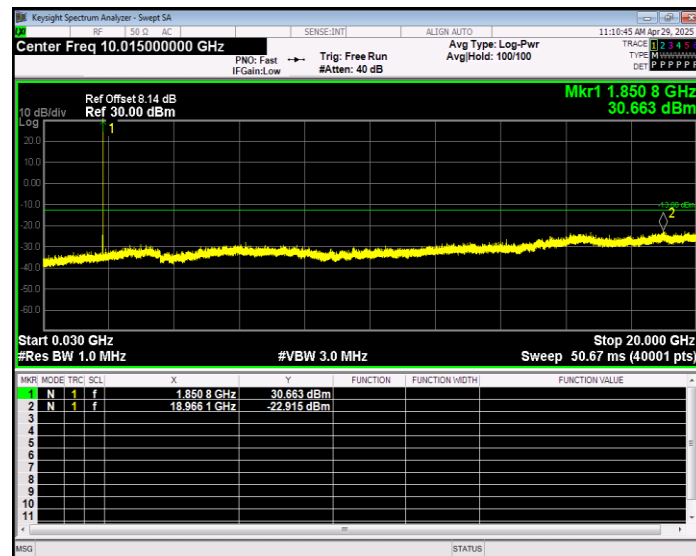
EGPRS850 Channel=190



EGPRS850 Channel=251



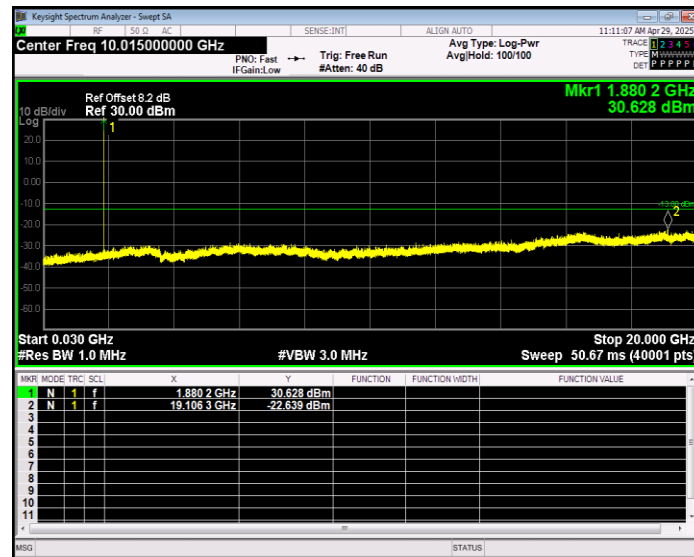
GSM1900 Channel=512



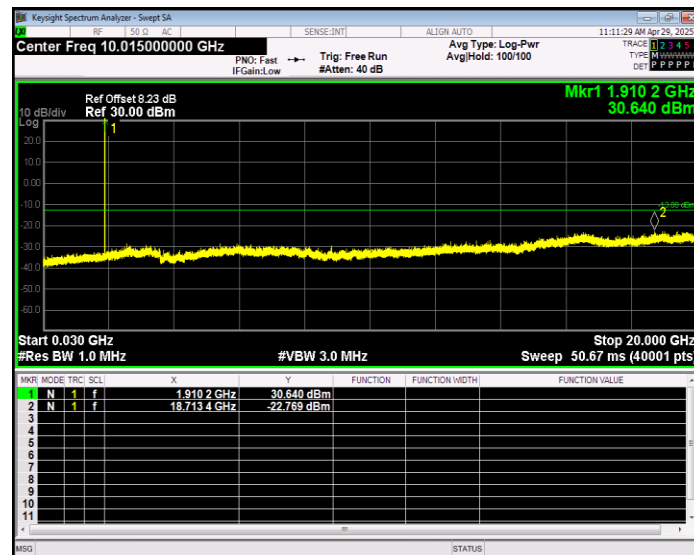


Report

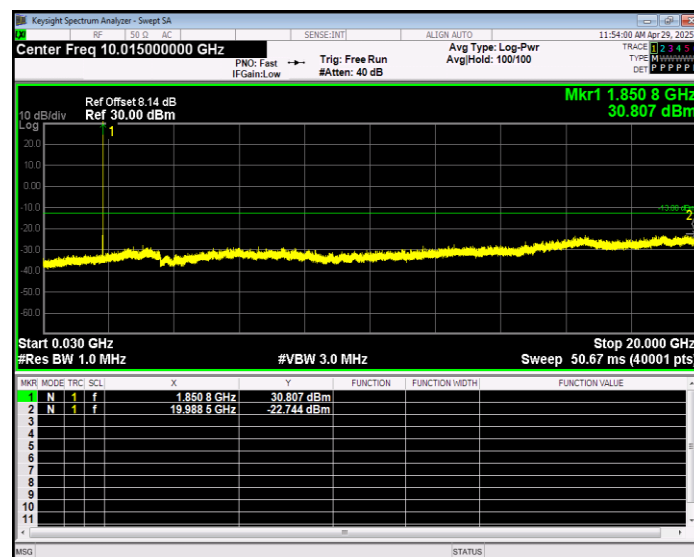
GSM1900 Channel=661



GSM1900 Channel=810



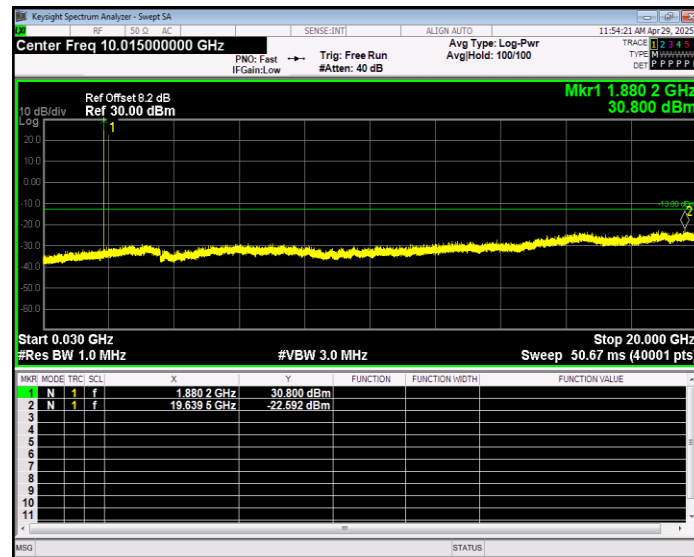
GPRS1900 Channel=512



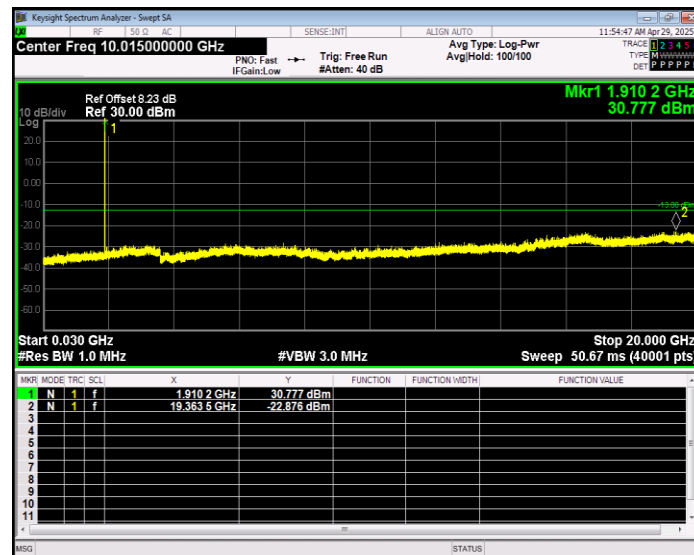


Report

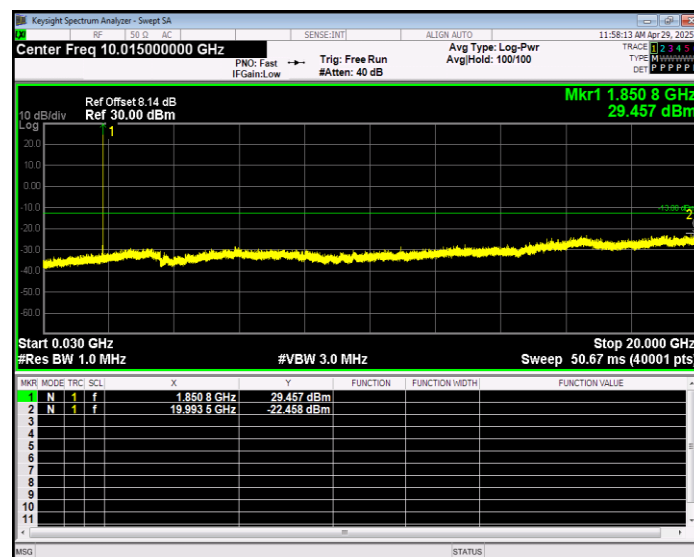
GPRS1900 Channel=661



GPRS1900 Channel=810



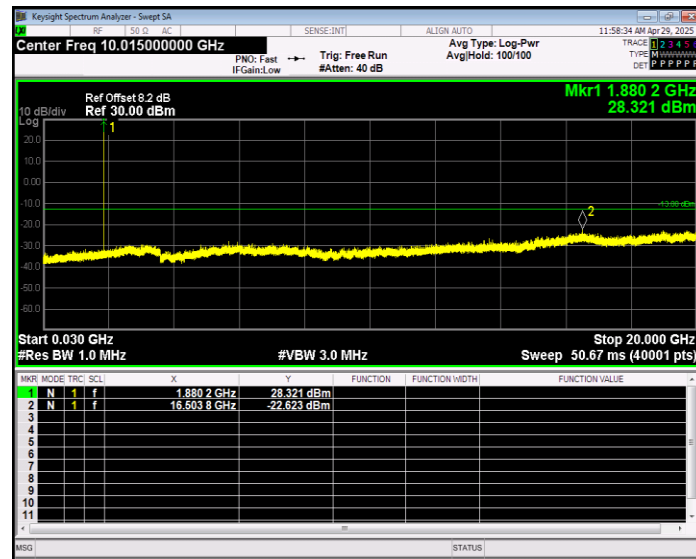
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810

