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Appendix B.1

GSM850&1900



SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Wireless Laboratory

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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.81	28.78	38.45	PASS
GSM850	190	32.86	28.83	38.45	PASS
GSM850	251	32.92	28.89	38.45	PASS

Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	28.41	24.38	38.45	PASS
EGPRS850	128	2	27.34	23.31	38.45	PASS
EGPRS850	128	3	25.31	21.28	38.45	PASS
EGPRS850	128	4	24.26	20.23	38.45	PASS
EGPRS850	190	1	28.14	24.11	38.45	PASS
EGPRS850	190	2	27.16	23.13	38.45	PASS
EGPRS850	190	3	25.21	21.18	38.45	PASS
EGPRS850	190	4	24.10	20.07	38.45	PASS
EGPRS850	251	1	27.99	23.96	38.45	PASS
EGPRS850	251	2	27.02	22.99	38.45	PASS
EGPRS850	251	3	25.03	21.00	38.45	PASS
EGPRS850	251	4	23.90	19.87	38.45	PASS



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Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	30.14	29.04	33.00	PASS
GSM1900	661	30.19	29.09	33.00	PASS
GSM1900	810	29.90	28.80	33.00	PASS

Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	26.48	25.38	33.00	PASS
EGPRS1900	512	2	25.64	24.54	33.00	PASS
EGPRS1900	512	3	23.96	22.86	33.00	PASS
EGPRS1900	512	4	22.97	21.87	33.00	PASS
EGPRS1900	661	1	26.14	25.04	33.00	PASS
EGPRS1900	661	2	25.46	24.36	33.00	PASS
EGPRS1900	661	3	23.84	22.74	33.00	PASS
EGPRS1900	661	4	22.83	21.73	33.00	PASS
EGPRS1900	810	1	26.05	24.95	33.00	PASS
EGPRS1900	810	2	25.33	24.23	33.00	PASS
EGPRS1900	810	3	23.72	22.62	33.00	PASS
EGPRS1900	810	4	22.62	21.52	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	7.36	13	PASS
GSM850	190	7.36	13	PASS
GSM850	251	7.16	13	PASS
EGPRS850	128	11.96	13	PASS
EGPRS850	190	12.14	13	PASS
EGPRS850	251	12.04	13	PASS
GSM1900	512	9.58	13	PASS
GSM1900	661	9.6	13	PASS
GSM1900	810	9.6	13	PASS
EGPRS1900	512	11.74	13	PASS
EGPRS1900	661	11.66	13	PASS
EGPRS1900	810	11.66	13	PASS



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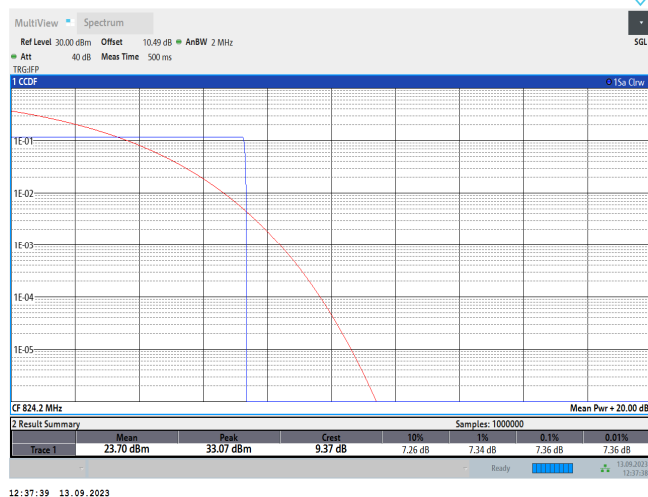
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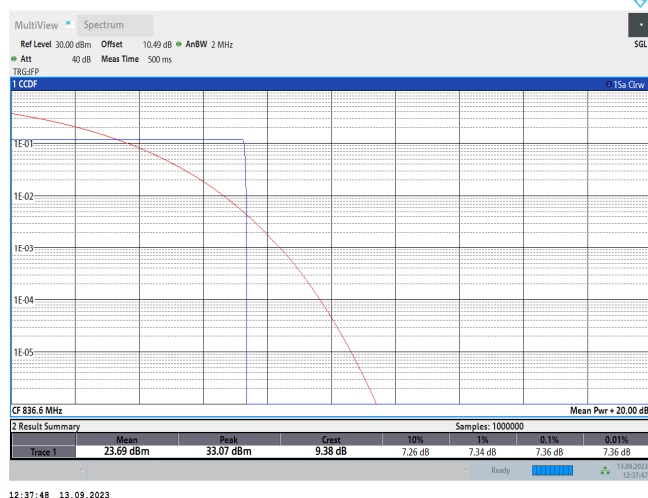
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Test Graphs

GSM850-128



GSM850-190



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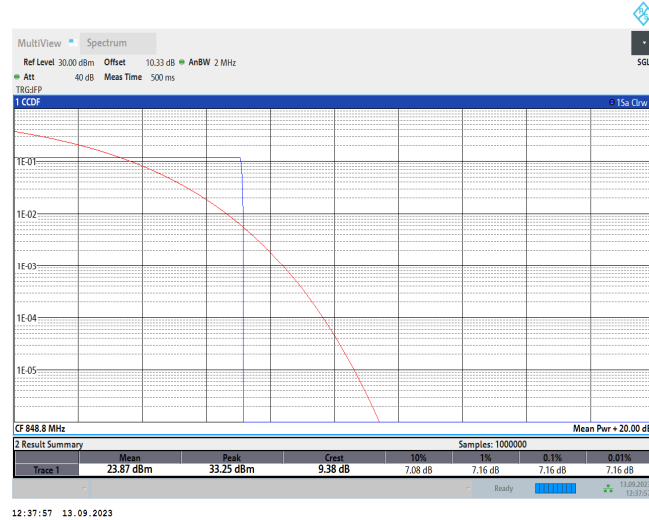


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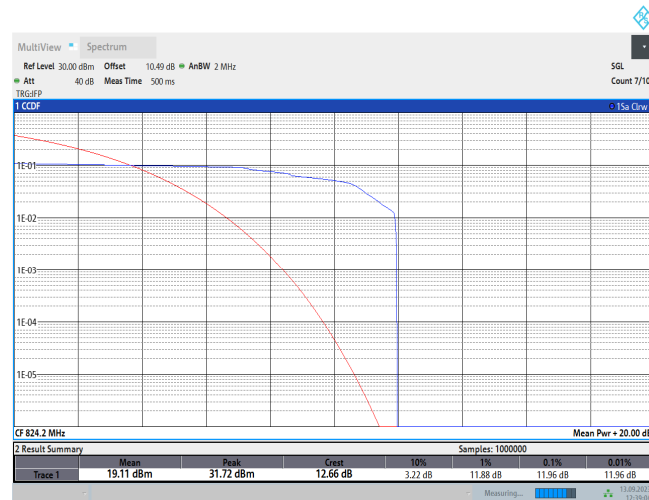
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EGPRS850-128



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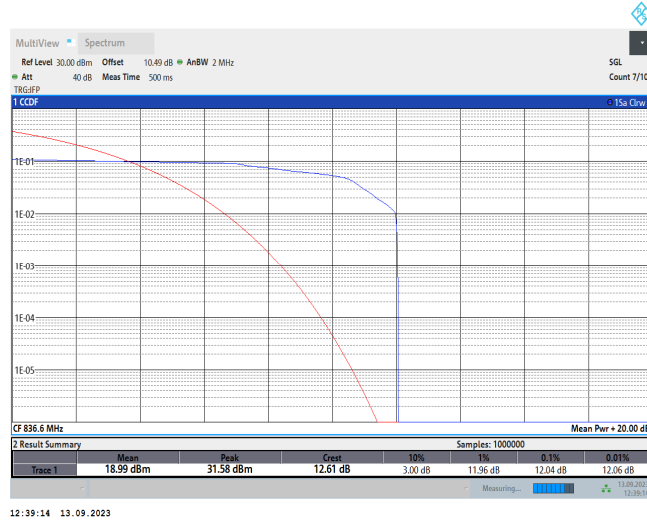


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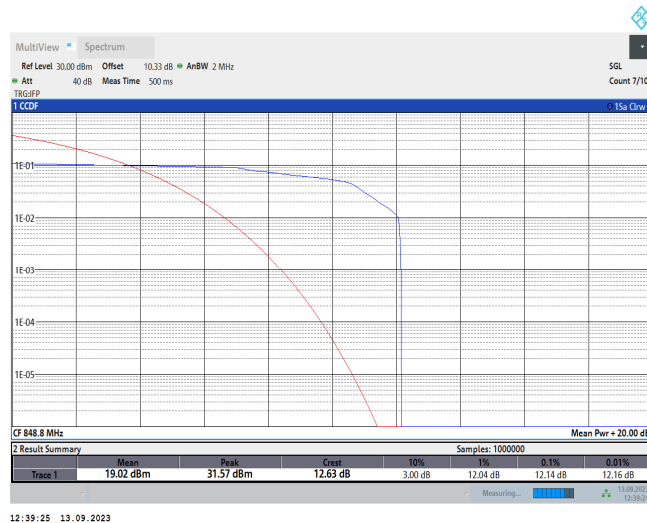
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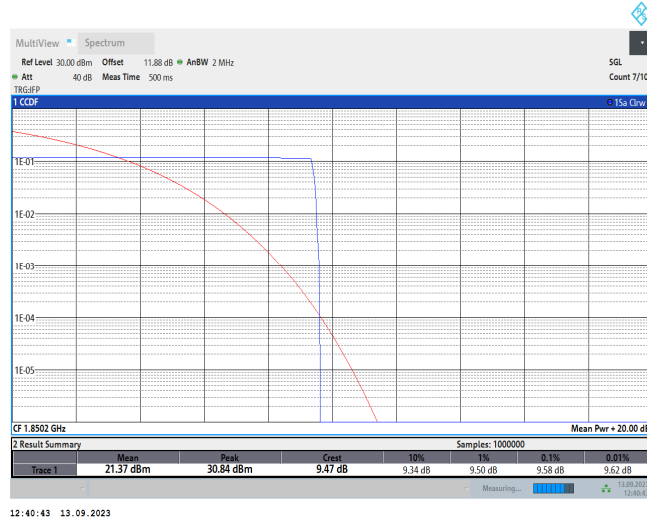


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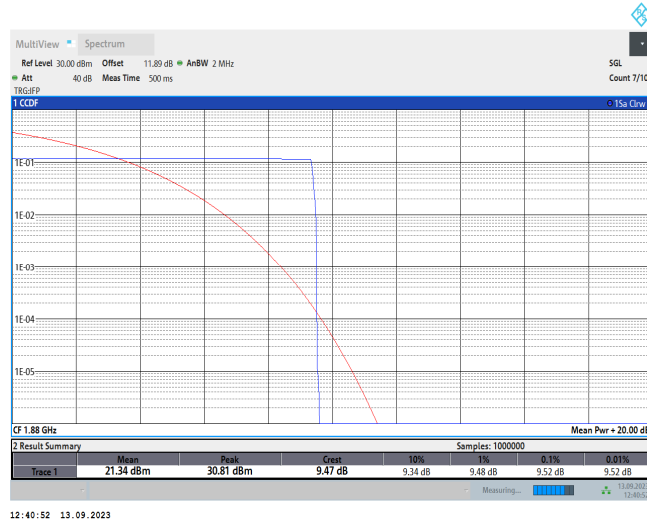
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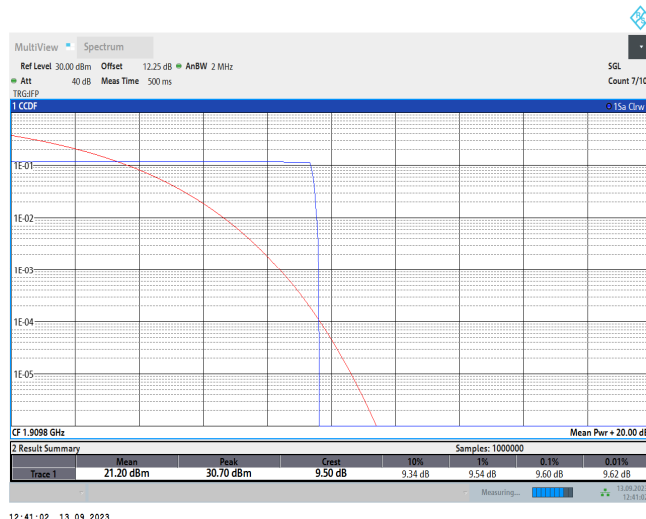


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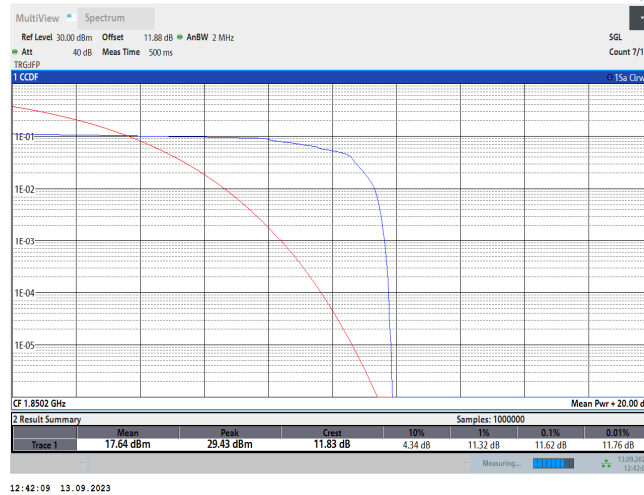


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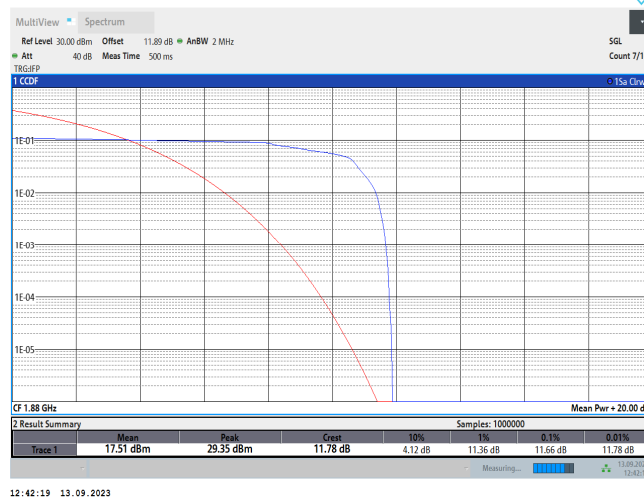
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EGPRS1900-661



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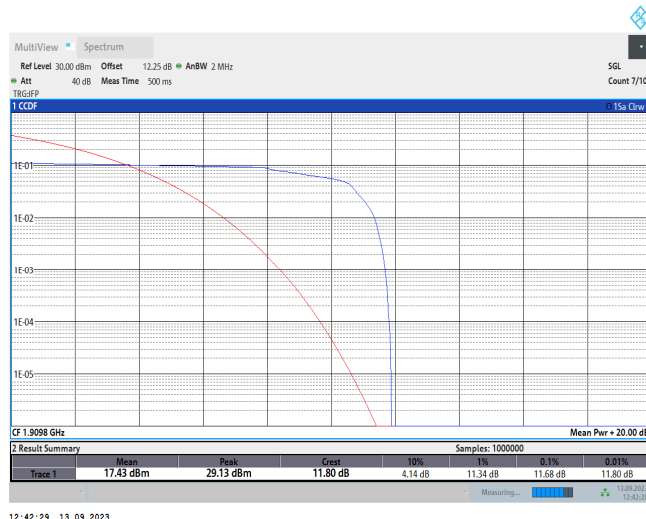


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.244	0.32	---	PASS
GSM850	190	0.246	0.32	---	PASS
GSM850	251	0.248	0.32	---	PASS
EGPRS850	128	0.252	0.33	---	PASS
EGPRS850	190	0.251	0.32	---	PASS
EGPRS850	251	0.252	0.33	---	PASS
GSM1900	512	0.244	0.32	---	PASS
GSM1900	661	0.245	0.31	---	PASS
GSM1900	810	0.244	0.31	---	PASS
EGPRS1900	512	0.267	0.35	---	PASS
EGPRS1900	661	0.266	0.36	---	PASS
EGPRS1900	810	0.266	0.36	---	PASS



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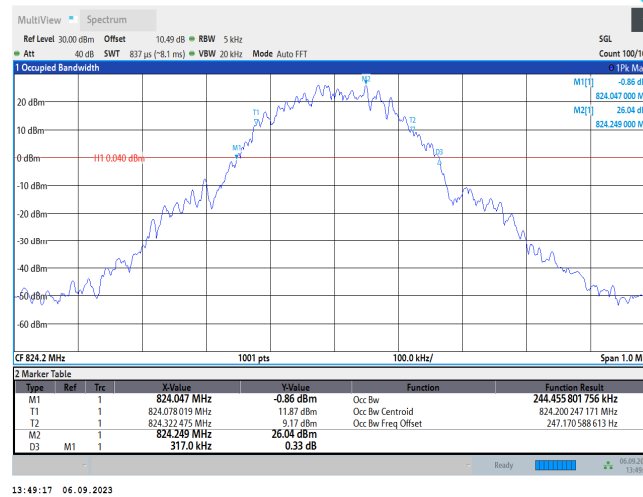
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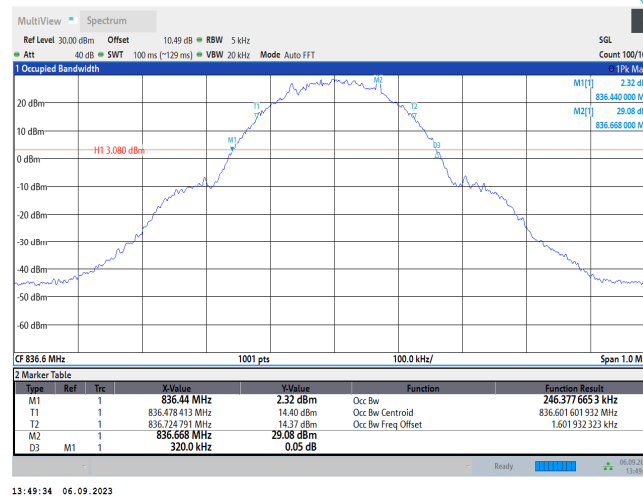
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Test Graphs

GSM850-128



GSM850-190



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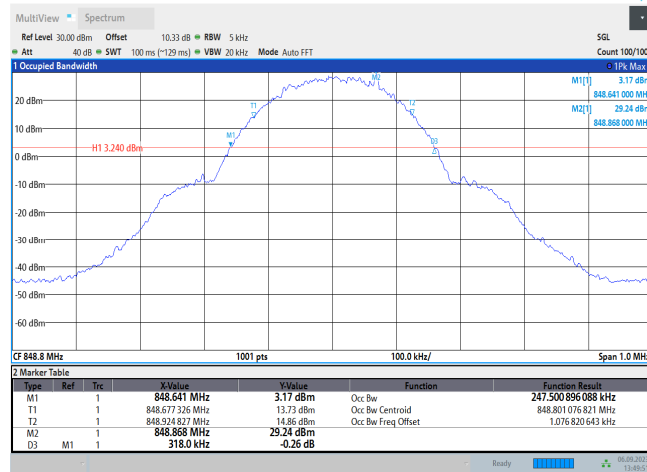


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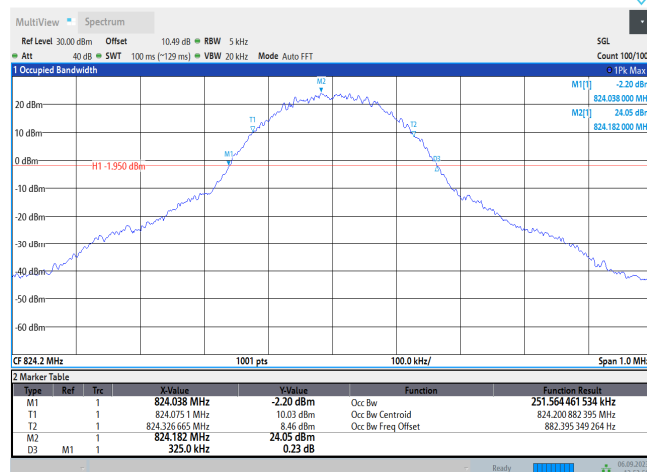
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EGPRS850-128



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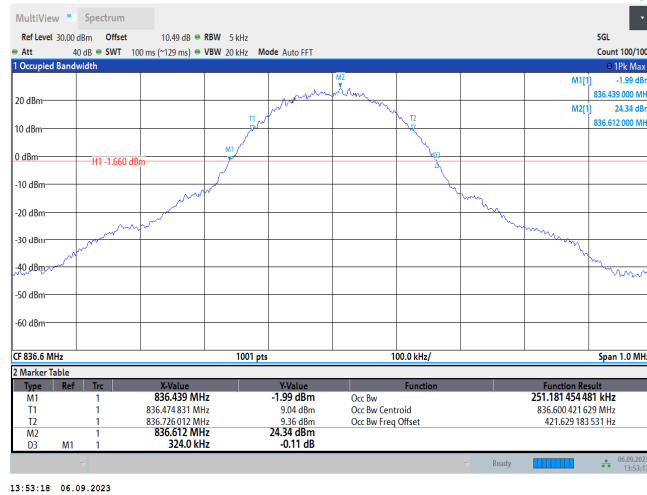


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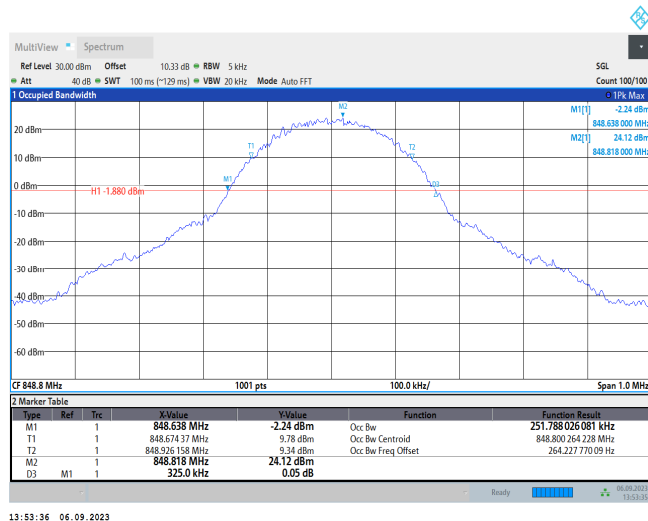


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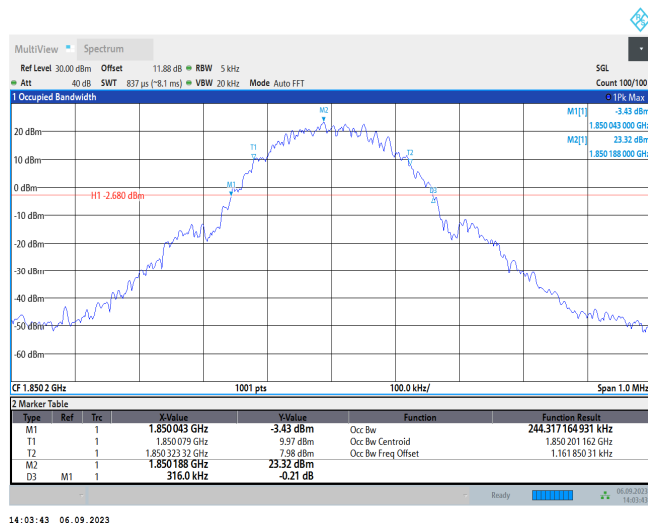
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GSM1900-512



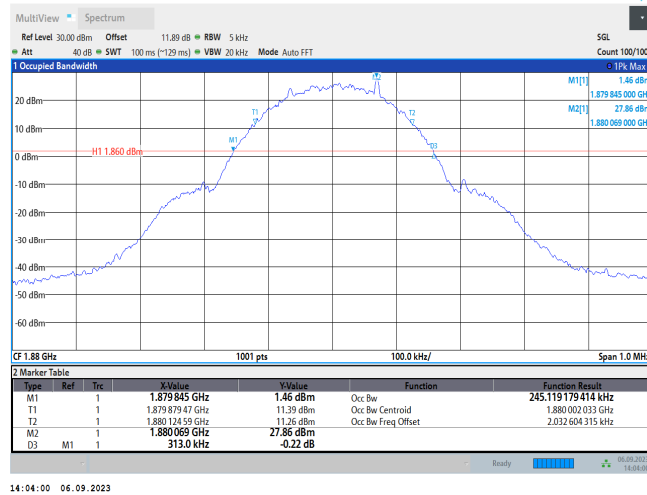


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14:04:00 06.09.2023



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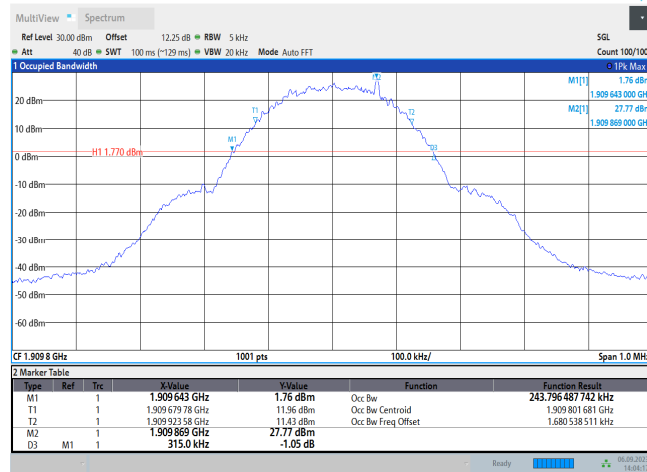


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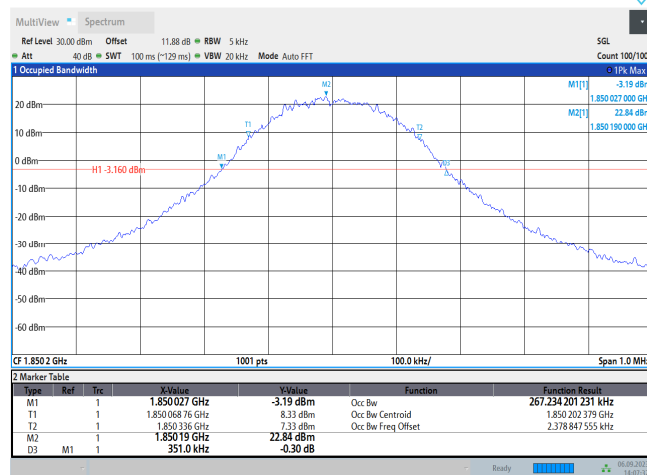
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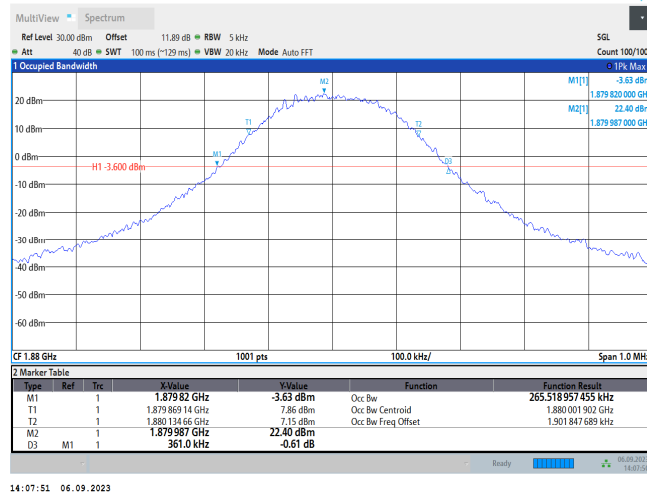


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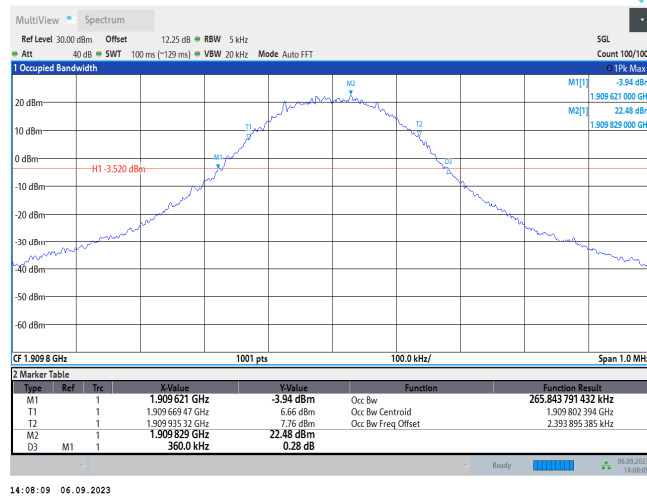
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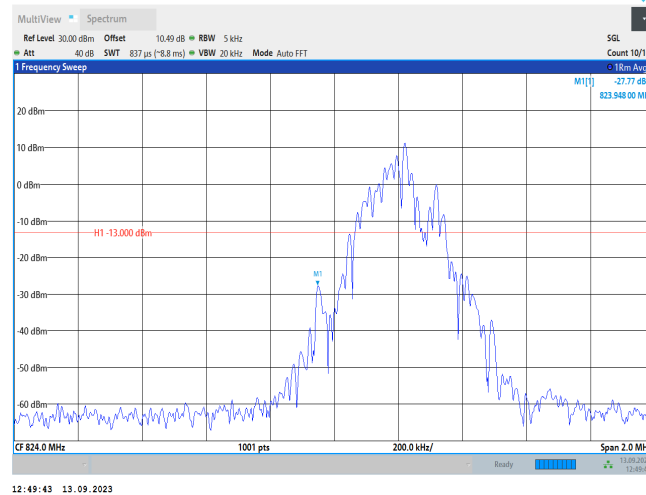
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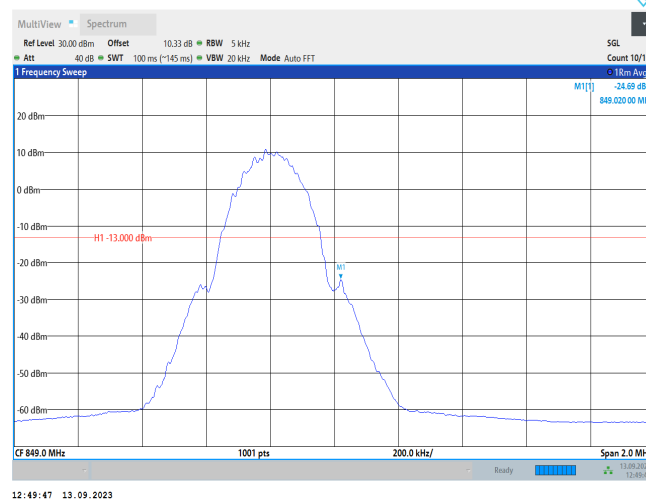
Band Edge

Test Graphs

GSM850-128



GSM850-251



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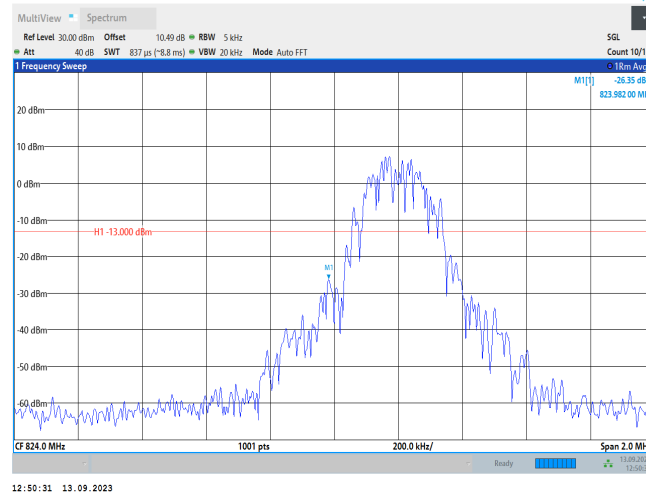


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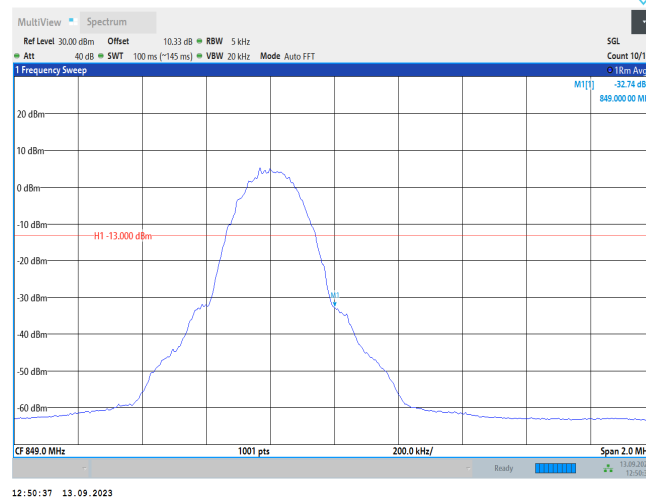
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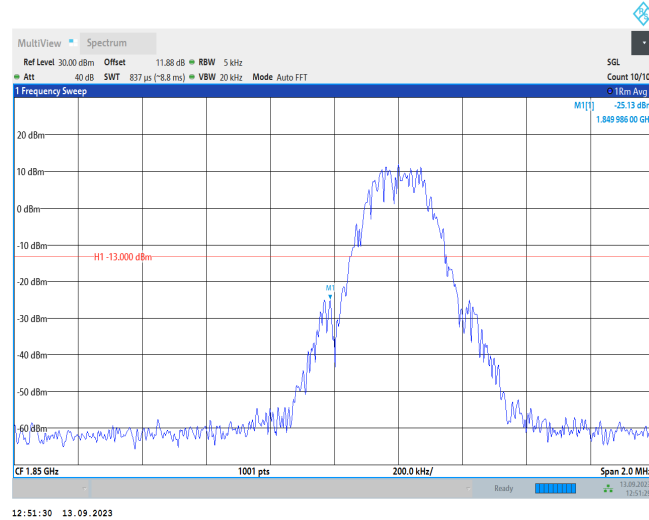


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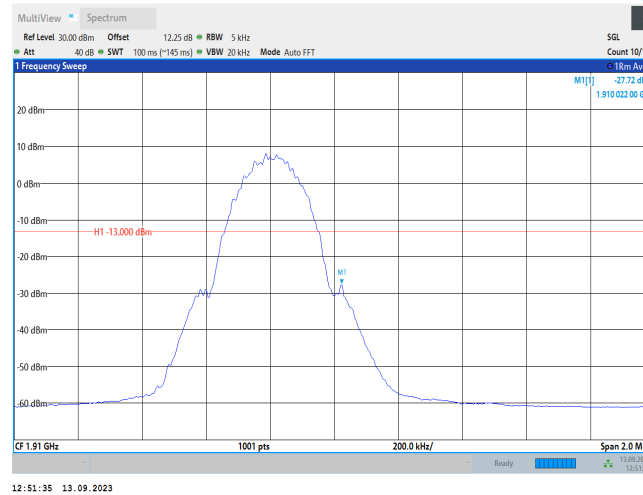


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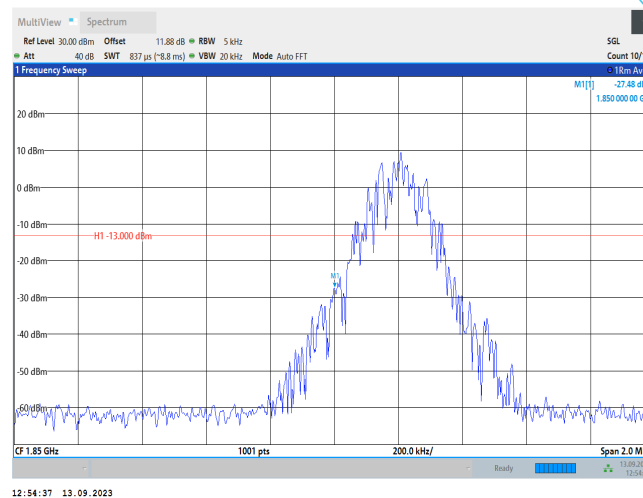
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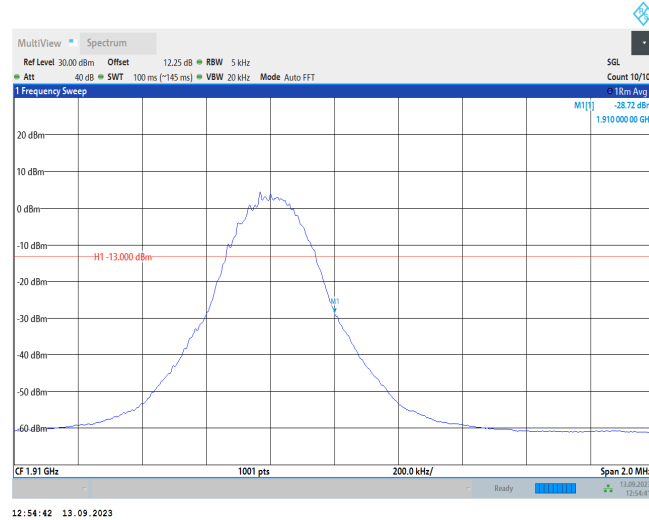


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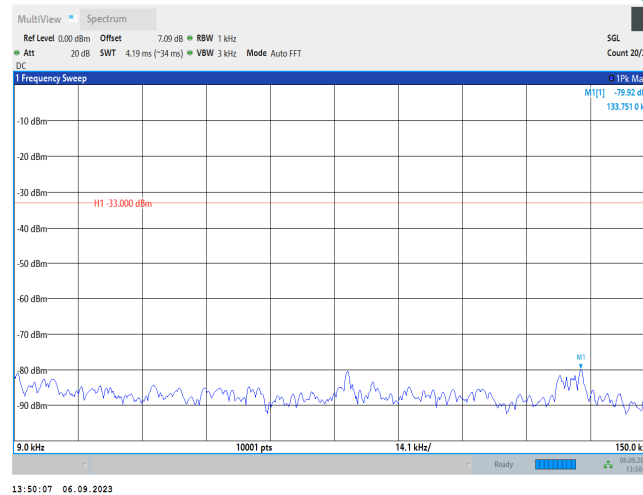
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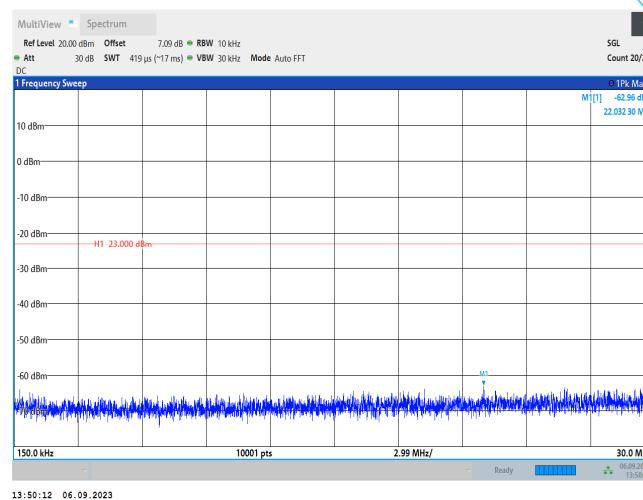
Conducted Spurious Emission

Test Graphs

GSM850-128-0.009~0.15MHz



GSM850-128-0.15~30MHz

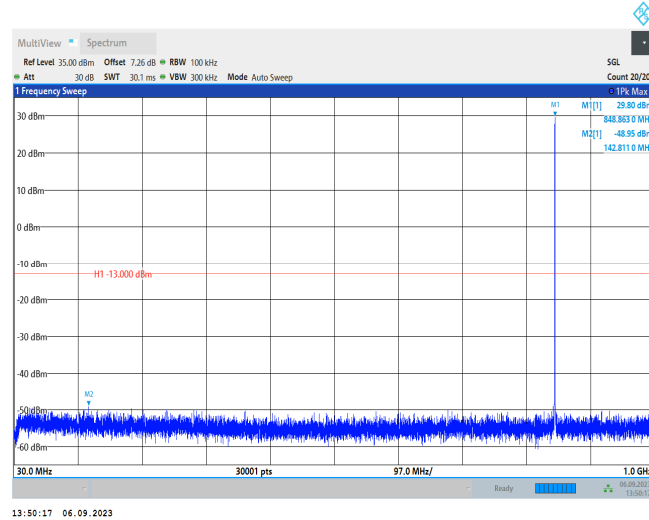


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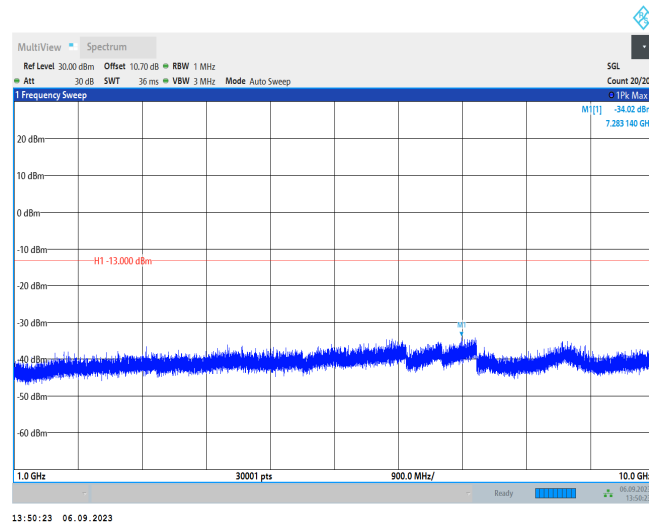
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GSM850-128-30~1000MHz



GSM850-128-1000~10000MHz



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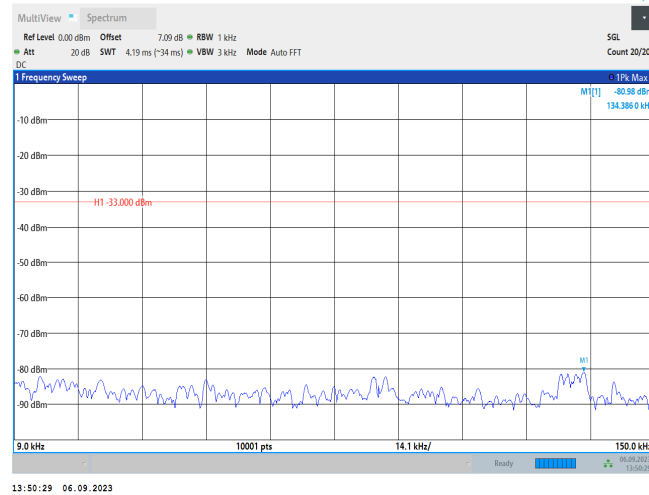


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GSM850-190-0.009~0.15MHz



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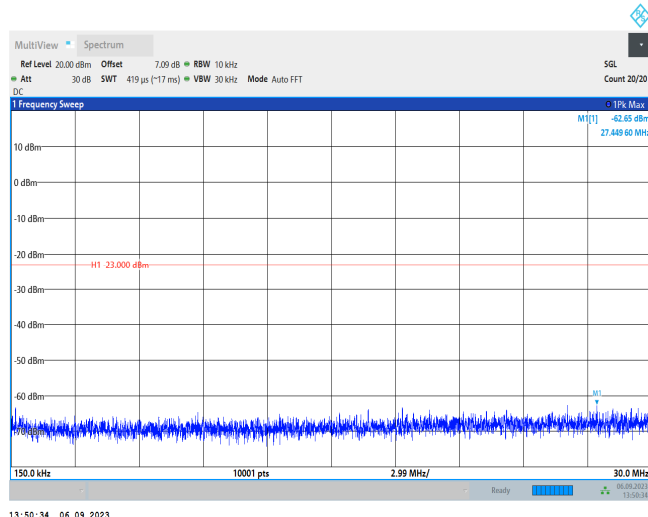
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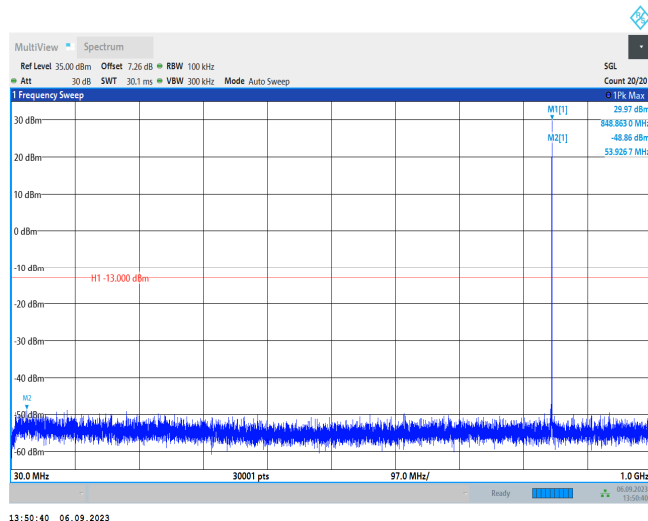
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GSM850-190-0.15~30MHz



GSM850-190-30~1000MHz



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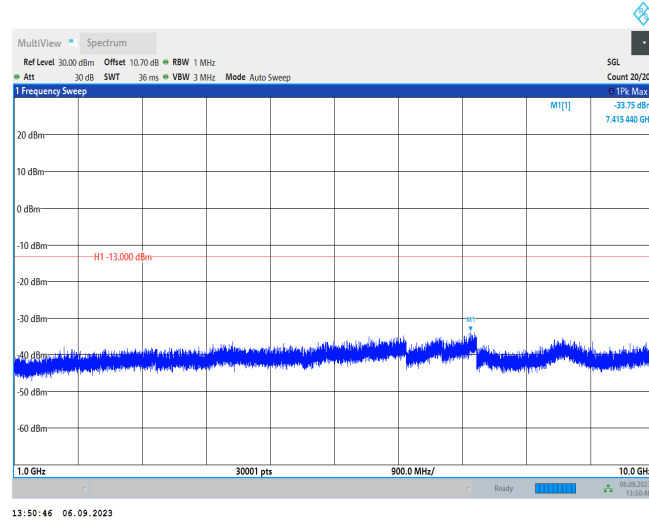
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GSM850-190-1000~10000MHz



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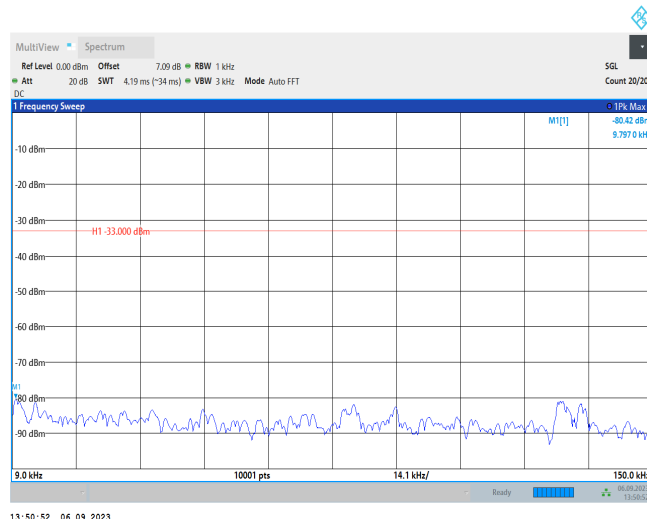
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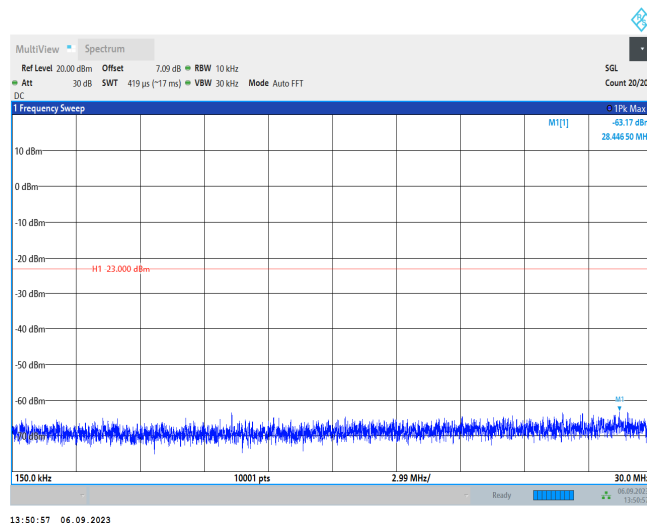
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GSM850-251-0.009~0.15MHz



GSM850-251-0.15~30MHz

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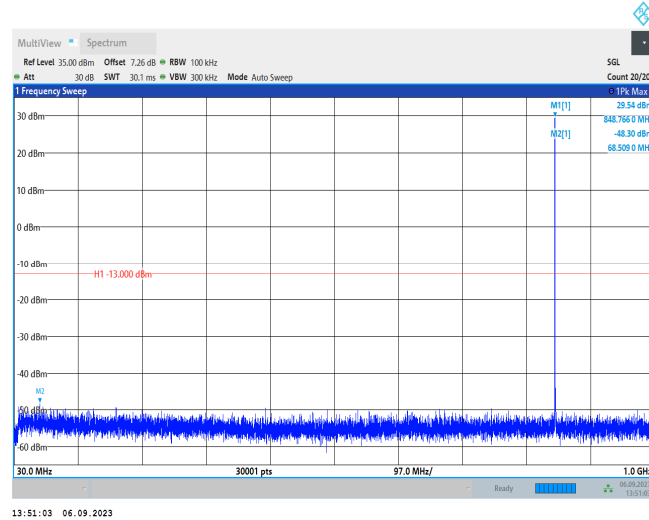


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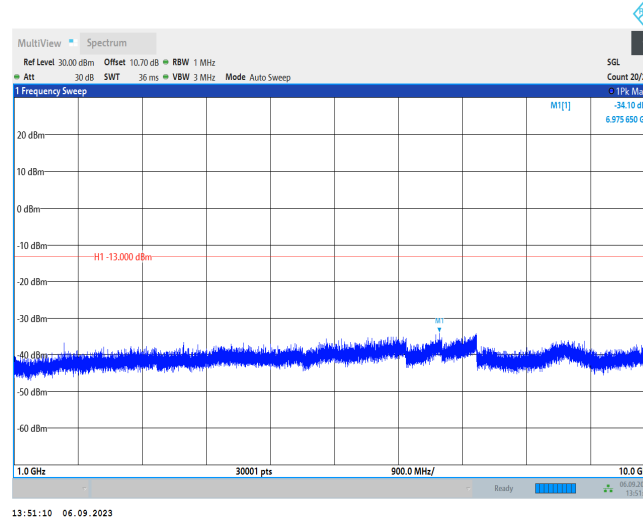


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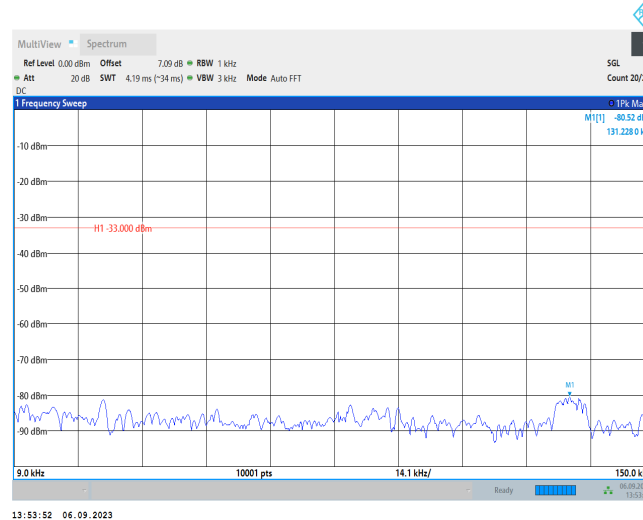
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EGPRS850-128-0.009~0.15MHz



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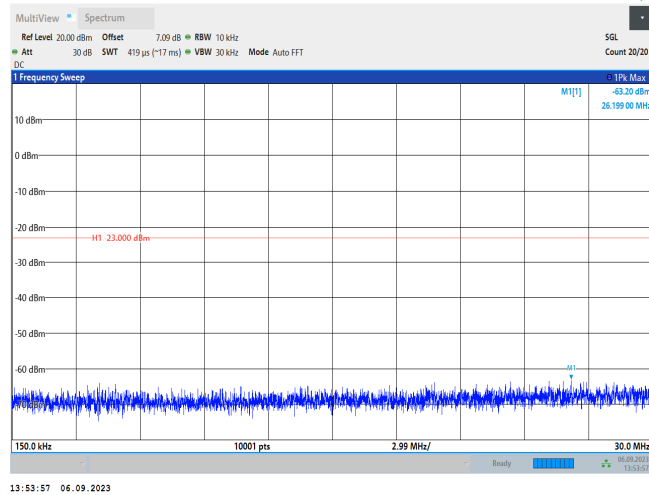


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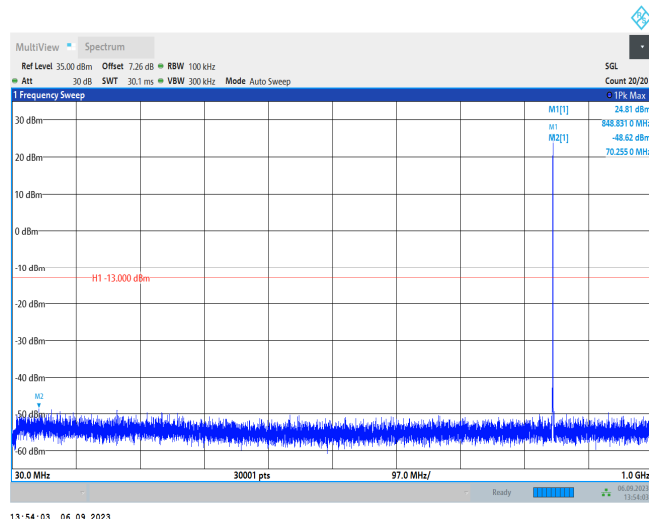


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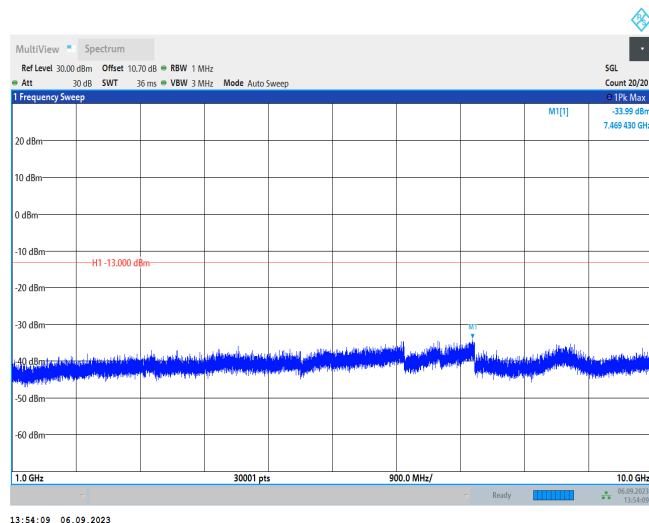
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EGPRS850-128-1000~10000MHz



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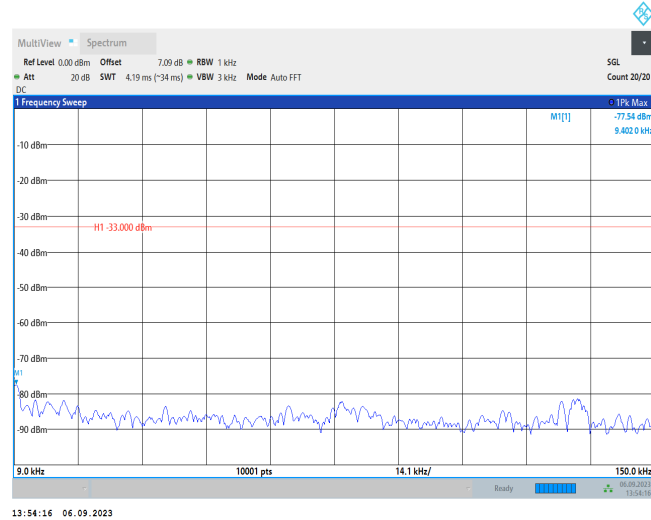


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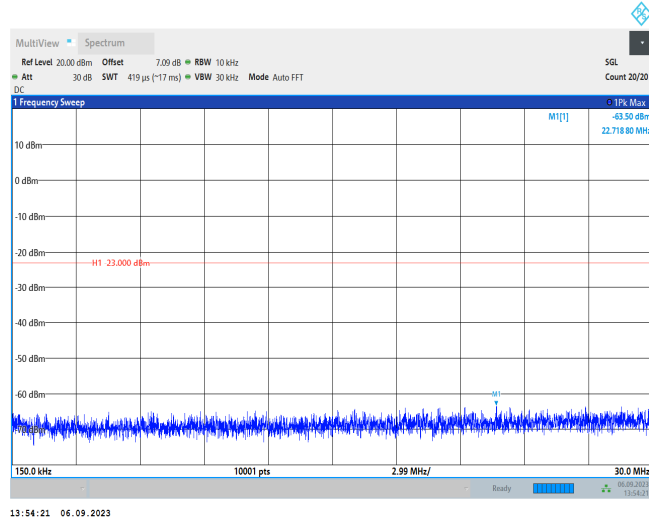


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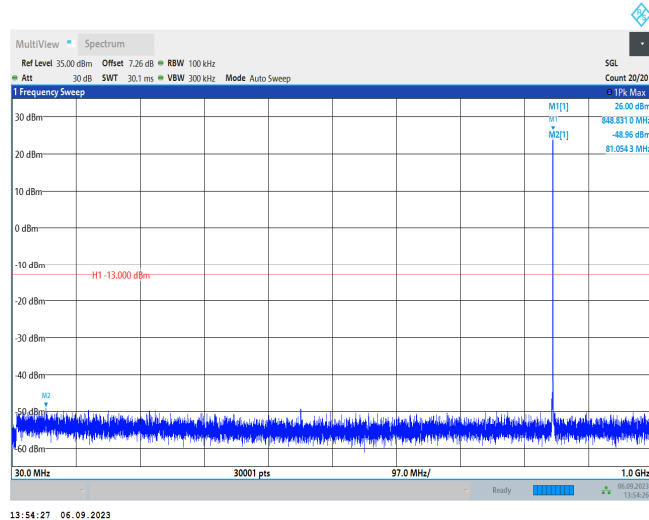
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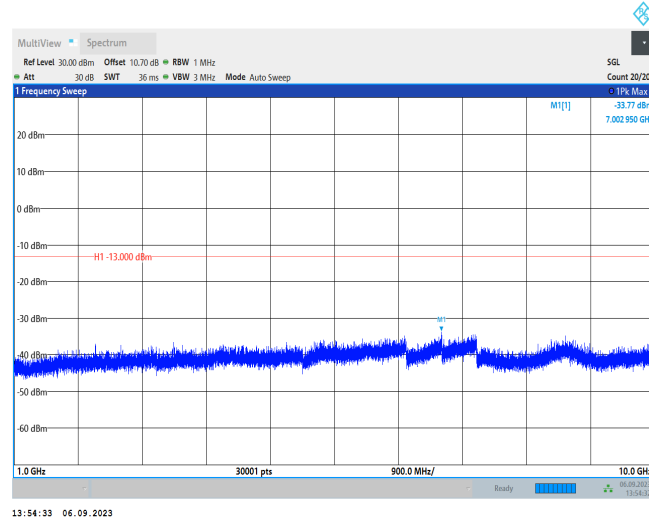
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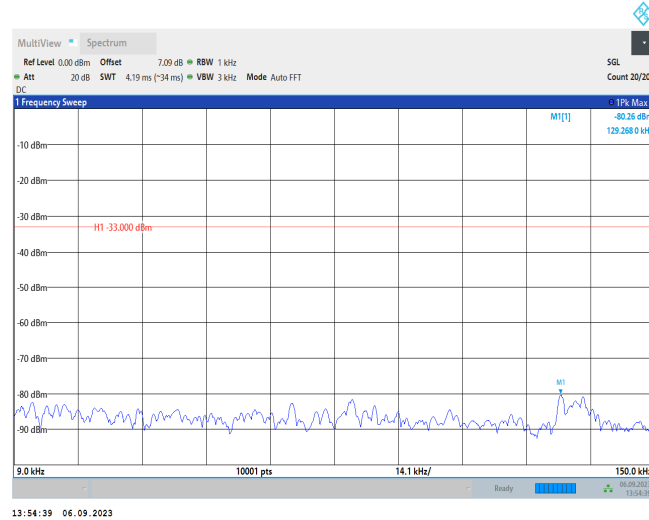


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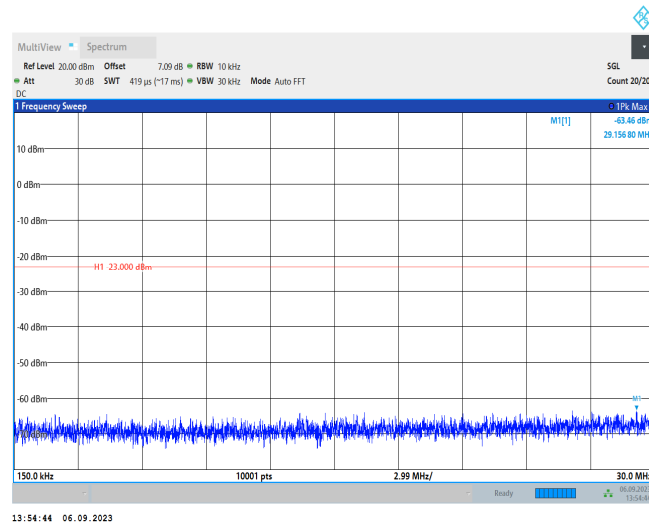
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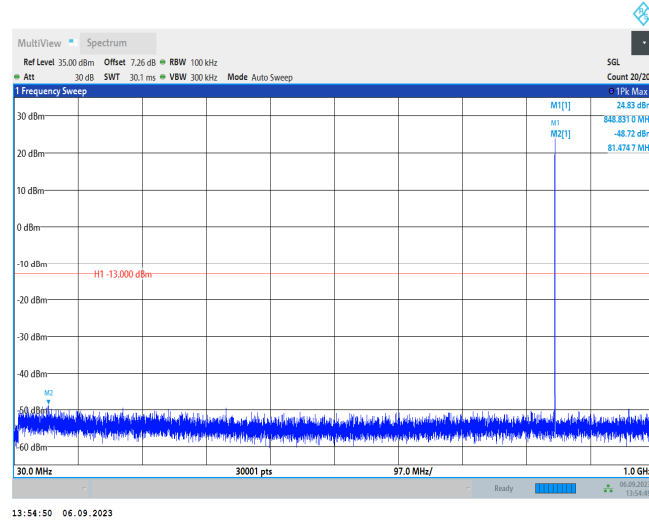


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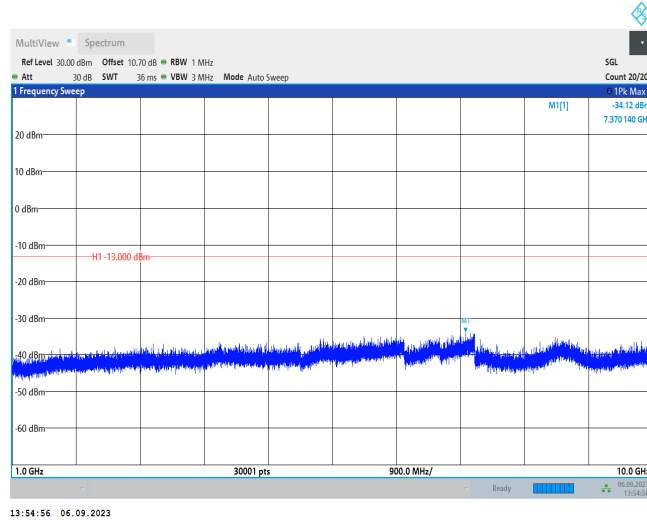


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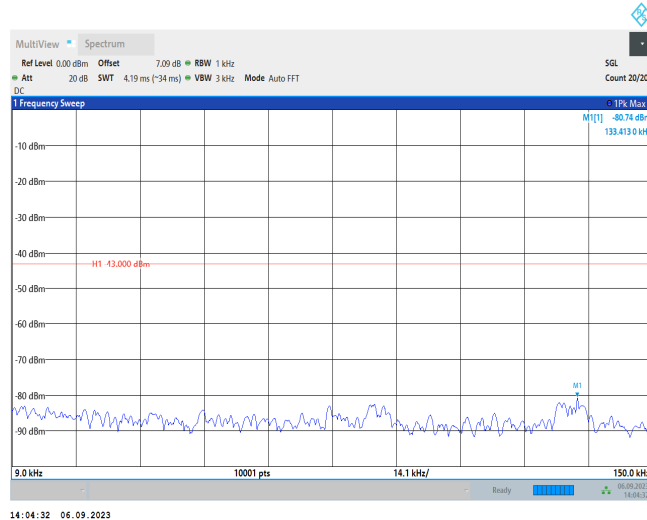
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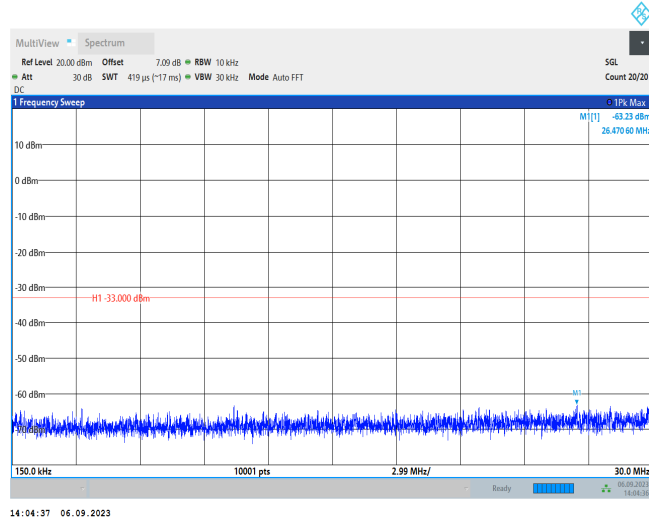


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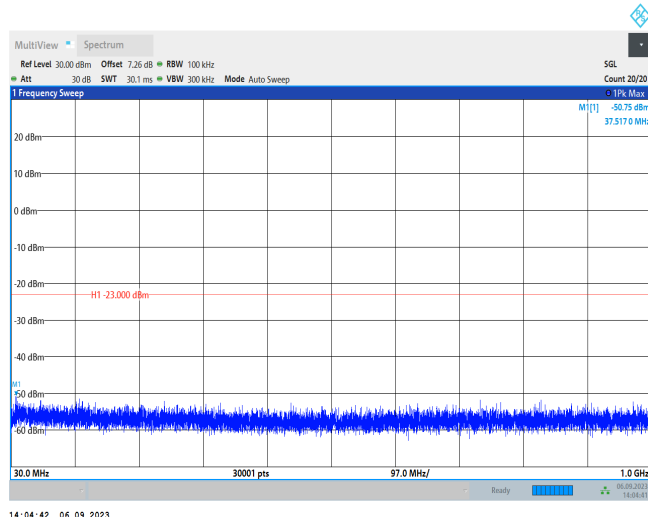
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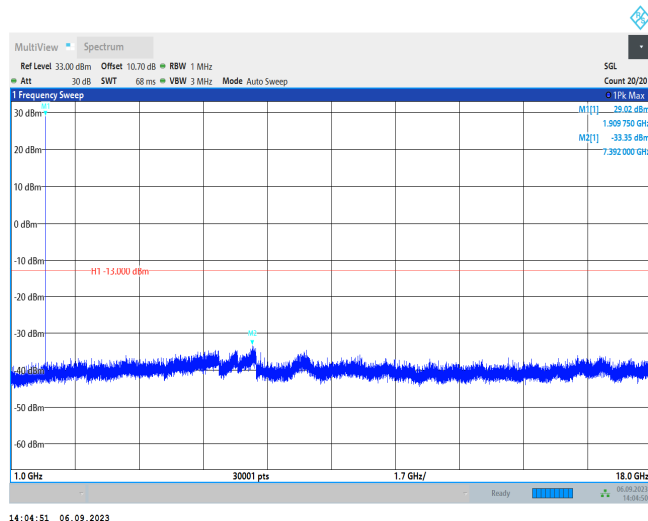
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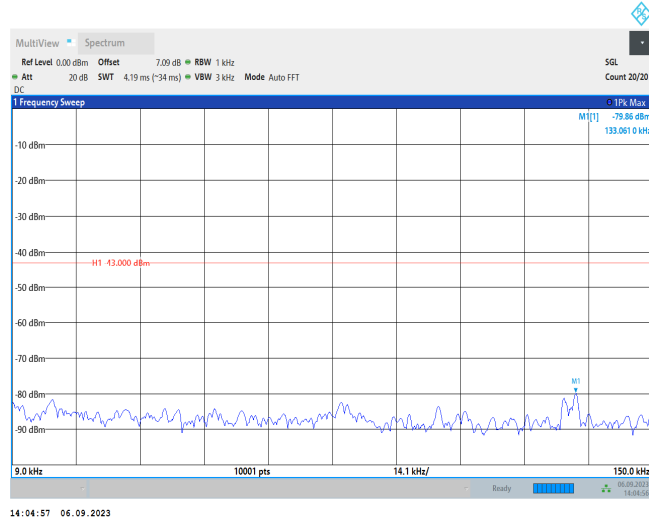


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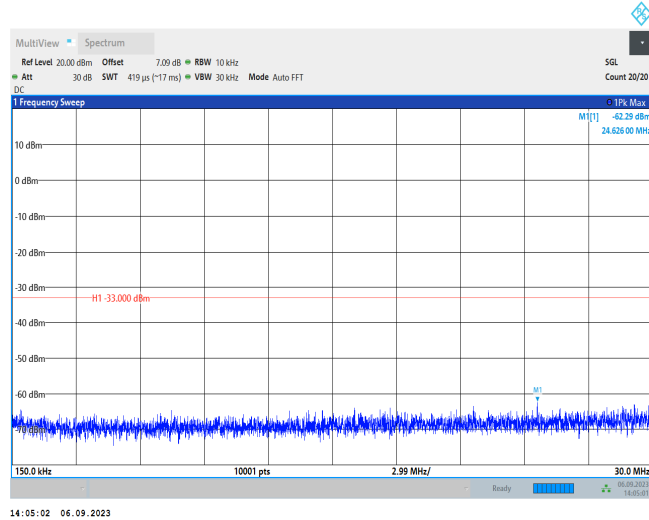


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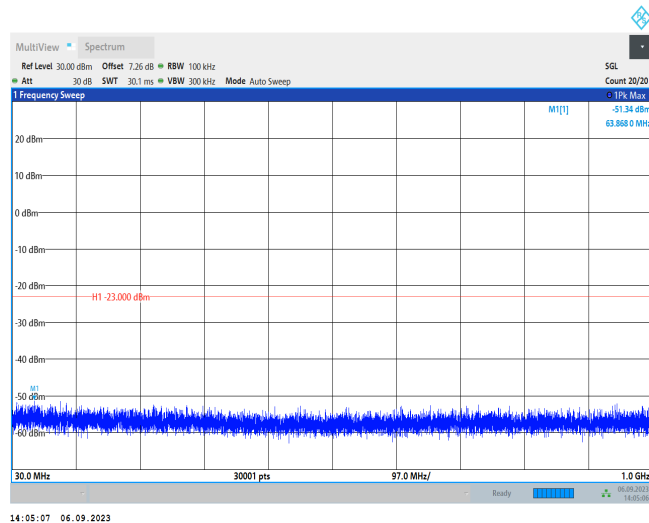
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GSM1900-661-0.15~30MHz



GSM1900-661-30~1000MHz



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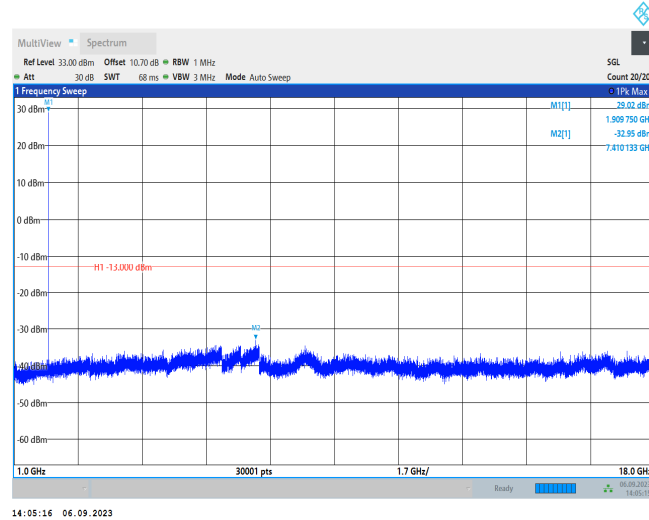


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GSM1900-661-1000~18000MHz



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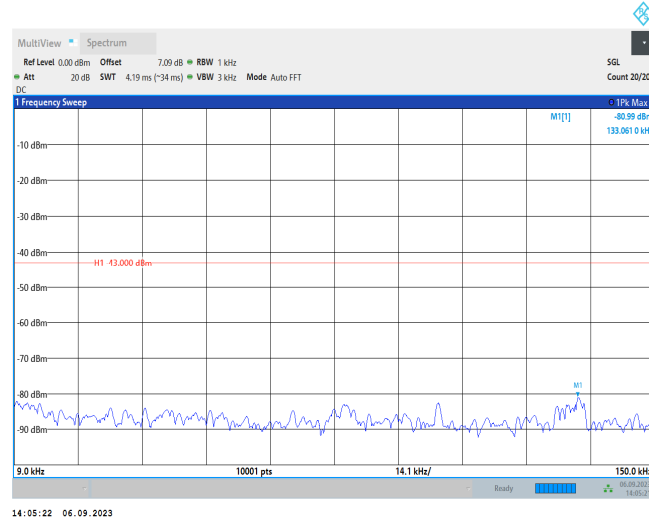


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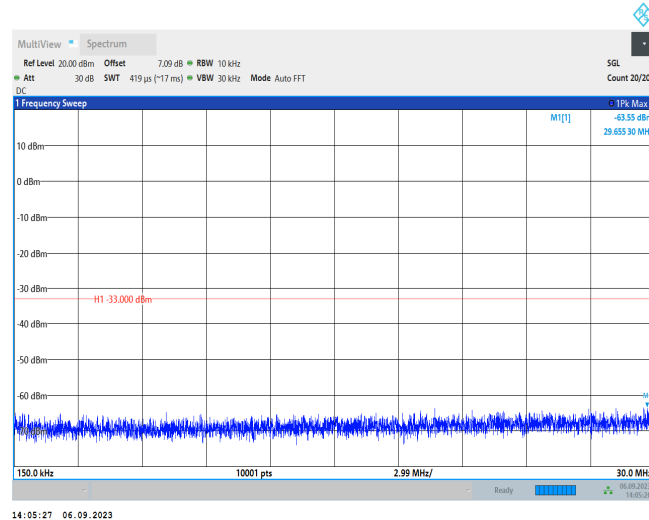
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GSM1900-810-0.009~0.15MHz



GSM1900-810-0.15~30MHz



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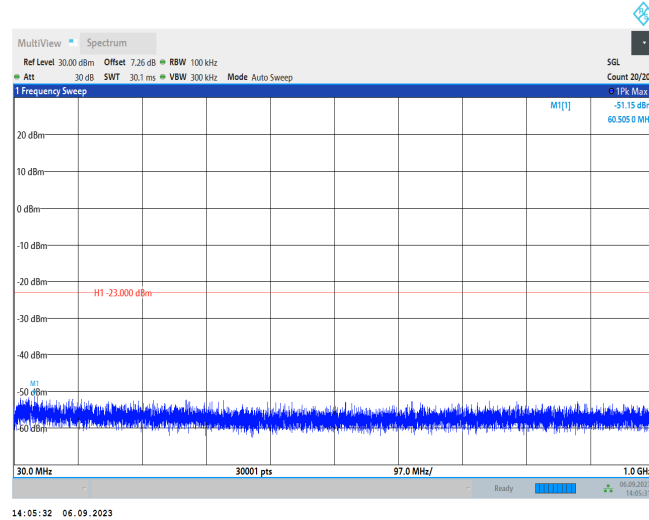


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GSM1900-810-30~1000MHz



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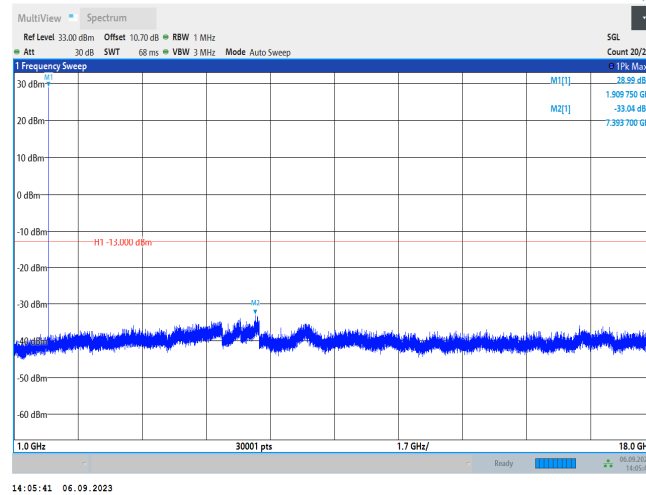
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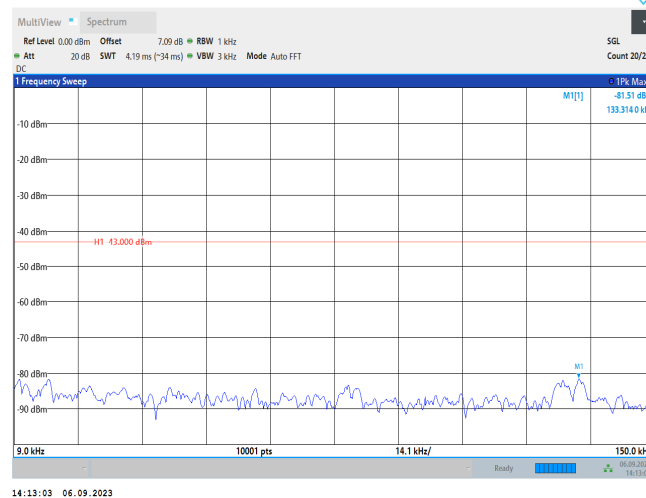
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GSM1900-810-1000~18000MHz



EGPRS1900-512-0.009~0.15MHz



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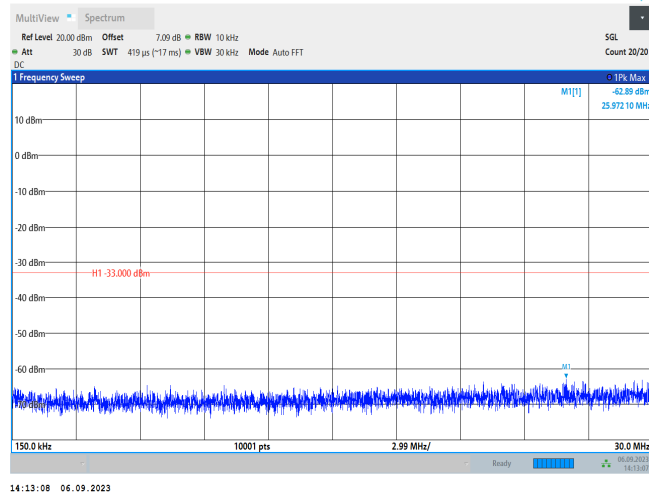


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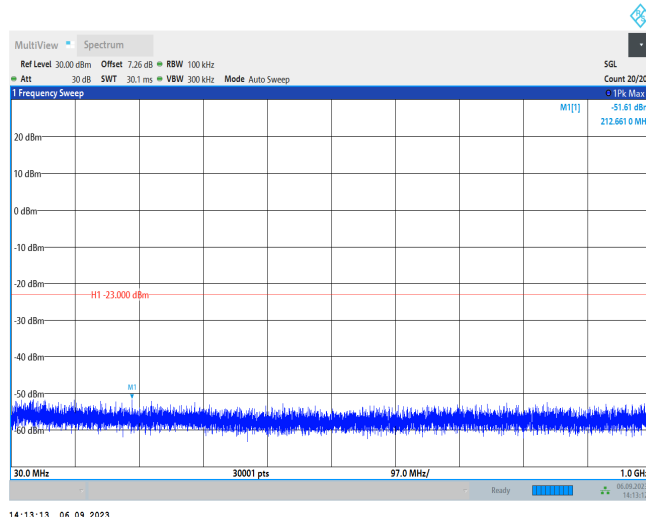
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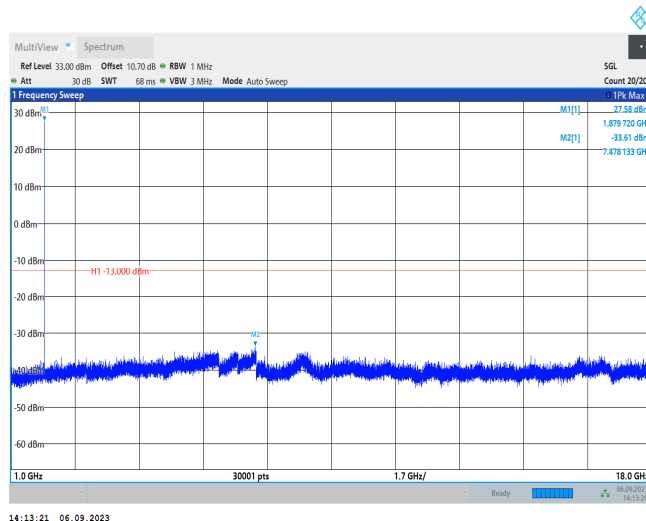
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EGPRS1900-512-30~1000MHz



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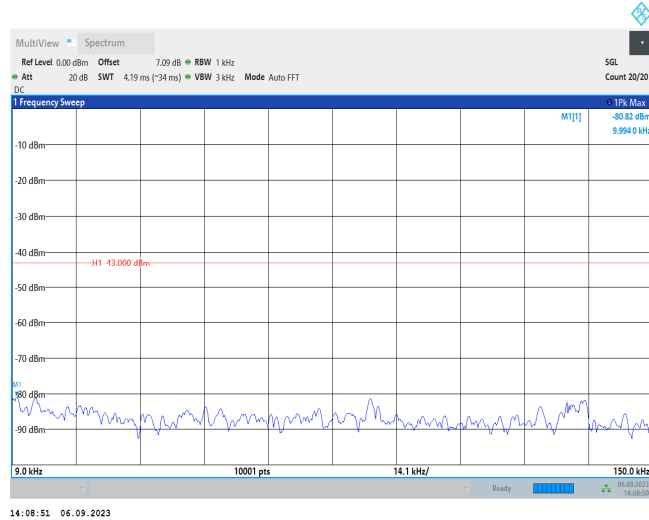


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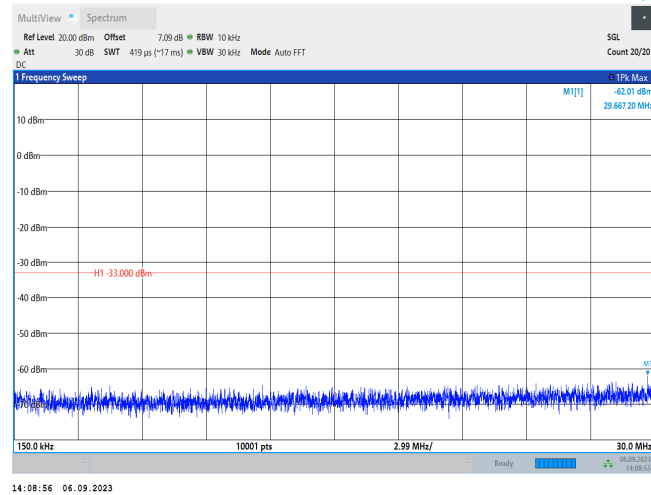


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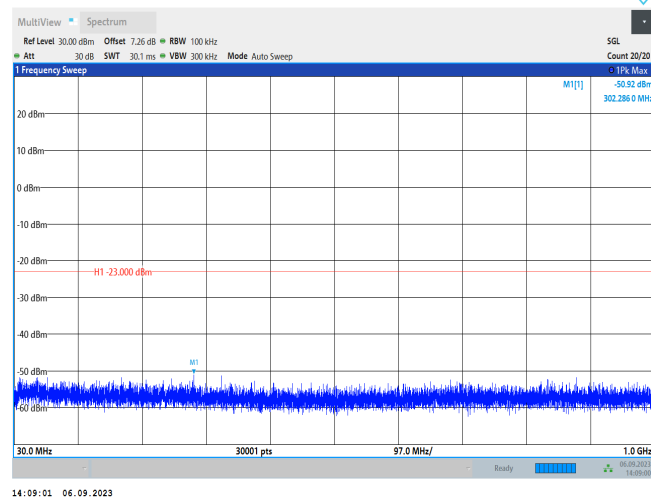
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EGPRS1900-661-0.15~30MHz



EGPRS1900-661-30~1000MHz



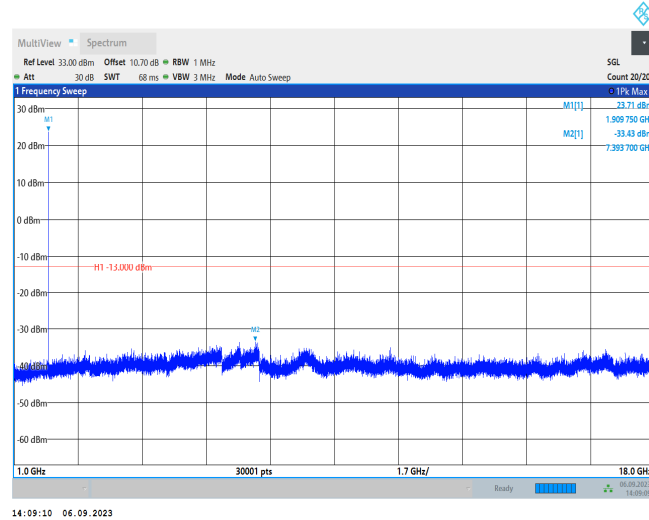


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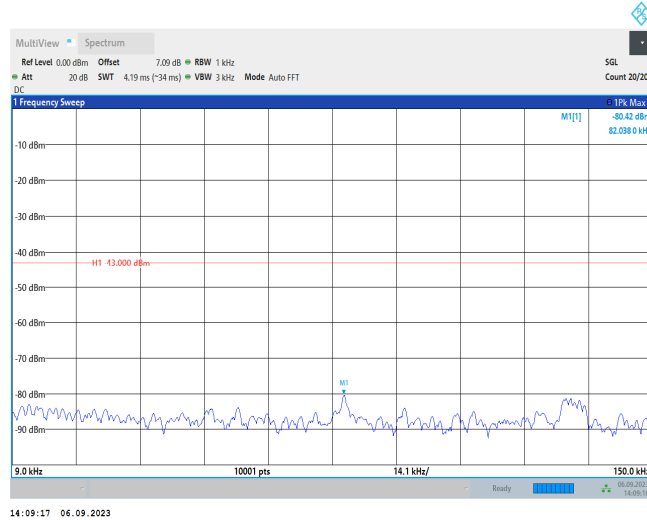


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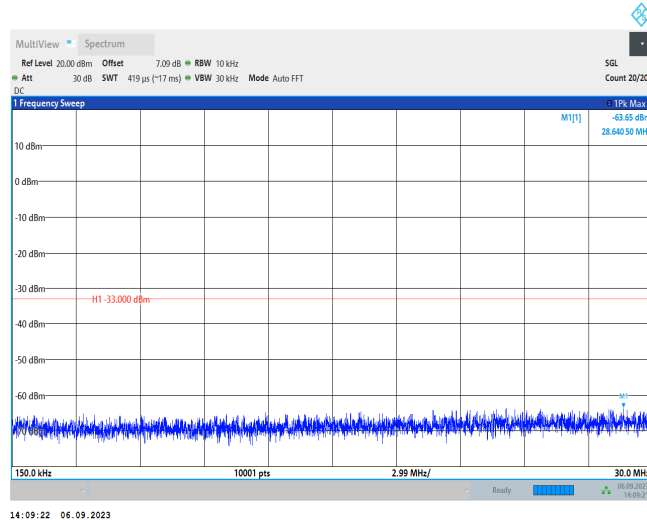
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EGPRS1900-810-0.009~0.15MHz



EGPRS1900-810-0.15~30MHz



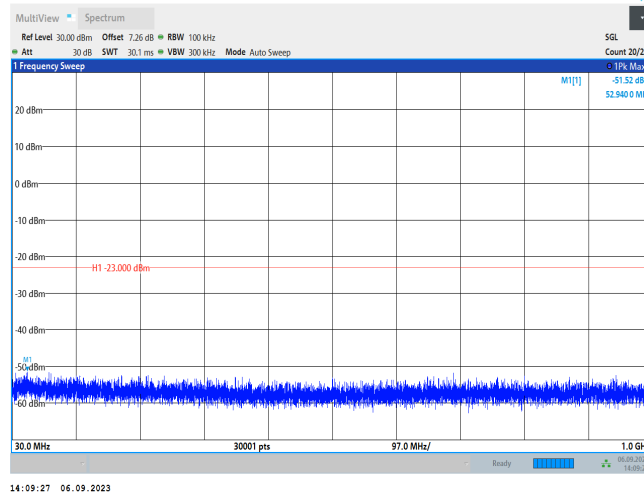
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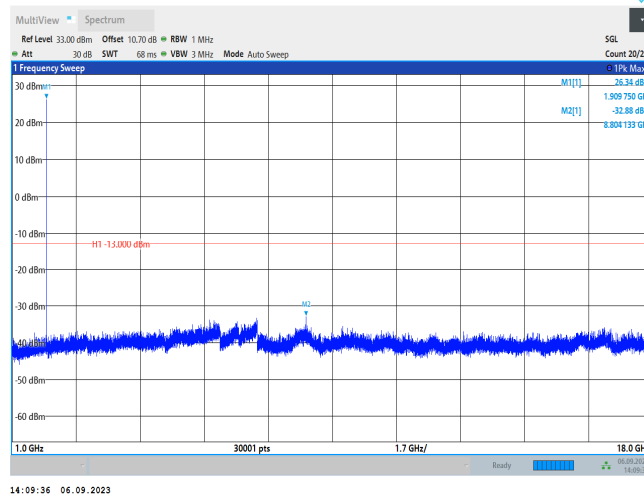
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EGPRS1900-810-30~1000MHz



EGPRS1900-810-1000~18000MHz



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Field Strength of Spurious Radiation

Test Band = GSM_850

Test Channel = LCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.5	73.32	-47.52	25.49	-43.97	-13.00	30.97	Horizontal
2	2472.5	78.53	-46.67	27.69	-35.71	-13.00	22.71	Horizontal
3	3297	49.82	-45.72	28.51	-62.65	-13.00	49.65	Horizontal
4	5612	44.52	-41.39	32.58	-59.55	-13.00	46.55	Horizontal
5	7417.5	43.45	-38.36	36.74	-53.43	-13.00	40.43	Horizontal
6	9939.5	42.07	-35.44	38.64	-49.99	-13.00	36.99	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.5	63.78	-47.52	25.49	-53.51	-13.00	40.51	Vertical
2	2472.5	74.19	-46.67	27.69	-40.05	-13.00	27.05	Vertical
3	3297	49.76	-45.72	28.51	-62.71	-13.00	49.71	Vertical
4	4121	47.05	-44.04	29.46	-62.79	-13.00	49.79	Vertical
5	6632	44.44	-40.09	34.86	-56.05	-13.00	43.05	Vertical
6	9902.5	41.90	-35.30	38.60	-50.06	-13.00	37.06	Vertical



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Test Band = GSM_850

Test Channel = MCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1673	63.36	-47.48	25.32	-54.06	-13.00	41.06	Horizontal
2	2510	69.33	-46.64	27.80	-44.77	-13.00	31.77	Horizontal
3	3346	48.67	-45.64	28.59	-63.64	-13.00	50.64	Horizontal
4	4183	47.03	-43.87	29.53	-62.57	-13.00	49.57	Horizontal
5	6056	45.27	-40.57	33.49	-57.07	-13.00	44.07	Horizontal
6	9980.5	42.03	-35.60	38.68	-50.15	-13.00	37.15	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1673.5	56.40	-47.48	25.31	-61.03	-13.00	48.03	Vertical
2	2510	75.33	-46.64	27.80	-38.77	-13.00	25.77	Vertical
3	3346.5	48.72	-45.64	28.59	-63.59	-13.00	50.59	Vertical
4	4183	47.10	-43.87	29.53	-62.50	-13.00	49.50	Vertical
5	7419.5	43.60	-38.36	36.74	-53.28	-13.00	40.28	Vertical
6	9916	42.23	-35.35	38.62	-49.76	-13.00	36.76	Vertical



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Test Band = GSM_850

Test Channel = HCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.5	64.64	-47.43	25.12	-52.93	-13.00	39.93	Horizontal
2	2546.5	69.22	-46.45	27.80	-44.69	-13.00	31.69	Horizontal
3	3395.5	52.10	-45.54	28.60	-60.10	-13.00	47.10	Horizontal
4	4244	48.10	-43.42	29.78	-60.80	-13.00	47.80	Horizontal
5	6797.5	44.31	-39.55	35.39	-55.11	-13.00	42.11	Horizontal
6	9910	41.83	-35.33	38.61	-50.15	-13.00	37.15	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.5	62.99	-47.43	25.12	-54.58	-13.00	41.58	Vertical
2	2546.5	74.60	-46.45	27.80	-39.31	-13.00	26.31	Vertical
3	3395	55.12	-45.54	28.60	-57.08	-13.00	44.08	Vertical
4	4244	56.76	-43.42	29.78	-52.14	-13.00	39.14	Vertical
5	7420.5	43.88	-38.36	36.74	-53.00	-13.00	40.00	Vertical
6	9890	42.12	-35.31	38.52	-49.93	-13.00	36.93	Vertical



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Test Band = GSM_1900

Test Channel = LCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3000	37.74	-21.77	28.60	-50.69	-13.00	37.69	Horizontal
2	3700.5	85.85	-44.51	29.30	-24.62	-13.00	11.62	Horizontal
3	5550.5	62.92	-41.64	32.20	-41.78	-13.00	28.78	Horizontal
4	7416.5	44.28	-38.28	36.73	-52.53	-13.00	39.53	Horizontal
5	9892	42.36	-35.02	38.54	-49.38	-13.00	36.38	Horizontal
6	16401	41.78	-34.83	38.81	-49.50	-13.00	36.50	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3000	37.47	-21.77	28.60	-50.96	-13.00	37.96	Vertical
2	3700.5	85.60	-44.51	29.30	-24.87	-13.00	11.87	Vertical
3	5550.5	65.45	-41.64	32.20	-39.25	-13.00	26.25	Vertical
4	7484	44.32	-38.29	36.87	-52.36	-13.00	39.36	Vertical
5	9917.5	43.10	-35.42	38.62	-48.96	-13.00	35.96	Vertical
6	16347.5	42.35	-35.11	38.64	-49.38	-13.00	36.38	Vertical



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Test Band = GSM_1900

Test Channel = MCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2993	37.56	-21.78	28.56	-50.92	-13.00	37.92	Horizontal
2	3760	83.99	-44.76	29.64	-26.39	-13.00	13.39	Horizontal
3	5640	57.86	-41.32	32.52	-46.20	-13.00	33.20	Horizontal
4	7486	43.61	-38.29	36.87	-53.07	-13.00	40.07	Horizontal
5	9916	41.77	-35.38	38.62	-50.25	-13.00	37.25	Horizontal
6	16388	41.10	-34.89	38.76	-50.29	-13.00	37.29	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3000	37.45	-21.77	28.60	-50.98	-13.00	37.98	Vertical
2	3760	81.91	-44.76	29.64	-28.47	-13.00	15.47	Vertical
3	5640	62.72	-41.32	32.52	-41.34	-13.00	28.34	Vertical
4	7421	43.54	-38.28	36.74	-53.26	-13.00	40.26	Vertical
5	9887	41.57	-35.06	38.50	-50.25	-13.00	37.25	Vertical
6	16396.5	40.72	-34.84	38.79	-50.59	-13.00	37.59	Vertical



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Test Band = GSM_1900
Test Channel = HCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2995.5	37.69	-21.78	28.57	-50.78	-13.00	37.78	Horizontal
2	3819.5	84.43	-44.79	29.76	-25.86	-13.00	12.86	Horizontal
3	5729.5	57.54	-41.23	32.50	-46.45	-13.00	33.45	Horizontal
4	7404	43.60	-38.28	36.71	-53.23	-13.00	40.23	Horizontal
5	11112.5	42.81	-37.80	40.20	-50.05	-13.00	37.05	Horizontal
6	13368.5	44.85	-38.64	39.69	-49.36	-13.00	36.36	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2994	37.36	-21.78	28.56	-51.12	-13.00	38.12	Vertical
2	3819.5	81.72	-44.79	29.76	-28.57	-13.00	15.57	Vertical
3	5729.5	62.31	-41.23	32.50	-41.68	-13.00	28.68	Vertical
4	8362.5	42.79	-36.99	36.35	-53.11	-13.00	40.11	Vertical
5	11098	42.46	-37.58	40.20	-50.18	-13.00	37.18	Vertical
6	13368.5	45.44	-38.64	39.69	-48.77	-13.00	35.77	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	VL	NT	0.84	0.001004	±2.5	PASS
GSM850	190	VN	NT	-3.78	-0.004518	±2.5	PASS
GSM850	190	VH	NT	-2.07	-0.002474	±2.5	PASS
EGPRS850	190	VL	NT	-14.46	-0.017284	±2.5	PASS
EGPRS850	190	VN	NT	-10.56	-0.012623	±2.5	PASS
EGPRS850	190	VH	NT	-5.29	-0.006323	±2.5	PASS

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)		Verdict
GSM1900	661	VL	NT	28.67	0.015250		PASS
GSM1900	661	VN	NT	22.83	0.012144		PASS
GSM1900	661	VH	NT	22.60	0.012021		PASS
EGPRS1900	661	VL	NT	2.29	0.001218		PASS
EGPRS1900	661	VN	NT	4.62	0.002457		PASS
EGPRS1900	661	VH	NT	4.42	0.002351		PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	-1.74	-0.002080	±2.5	PASS
GSM850	190	NV	-20	-0.42	-0.000502	±2.5	PASS
GSM850	190	NV	-10	-0.94	-0.001124	±2.5	PASS
GSM850	190	NV	0	-5.00	-0.005977	±2.5	PASS
GSM850	190	NV	10	-0.77	-0.000920	±2.5	PASS
GSM850	190	NV	20	8.27	0.009885	±2.5	PASS
GSM850	190	NV	30	8.17	0.009766	±2.5	PASS
GSM850	190	NV	40	10.14	0.012120	±2.5	PASS
GSM850	190	NV	50	7.85	0.009383	±2.5	PASS
EGPRS850	190	NV	-30	-9.01	-0.010770	±2.5	PASS
EGPRS850	190	NV	-20	-6.72	-0.008033	±2.5	PASS
EGPRS850	190	NV	-10	-7.88	-0.009419	±2.5	PASS
EGPRS850	190	NV	0	-8.94	-0.010686	±2.5	PASS
EGPRS850	190	NV	10	-14.46	-0.017284	±2.5	PASS
EGPRS850	190	NV	20	-4.07	-0.004865	±2.5	PASS
EGPRS850	190	NV	30	-2.10	-0.002510	±2.5	PASS
EGPRS850	190	NV	40	2.13	0.002546	±2.5	PASS
EGPRS850	190	NV	50	1.29	0.001542	±2.5	PASS



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Temperature						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	24.50	0.013032	PASS
GSM1900	661	NV	-20	26.60	0.014149	PASS
GSM1900	661	NV	-10	30.28	0.016106	PASS
GSM1900	661	NV	0	20.70	0.011011	PASS
GSM1900	661	NV	10	13.11	0.006973	PASS
GSM1900	661	NV	20	44.07	0.023441	PASS
GSM1900	661	NV	30	54.18	0.028819	PASS
GSM1900	661	NV	40	55.73	0.029644	PASS
GSM1900	661	NV	50	58.89	0.031324	PASS
EGPRS1900	661	NV	-30	1.16	0.000617	PASS
EGPRS1900	661	NV	-20	3.52	0.001872	PASS
EGPRS1900	661	NV	-10	1.65	0.000878	PASS
EGPRS1900	661	NV	0	2.26	0.001202	PASS
EGPRS1900	661	NV	10	5.49	0.002920	PASS
EGPRS1900	661	NV	20	0.55	0.000293	PASS
EGPRS1900	661	NV	30	27.48	0.014617	PASS
EGPRS1900	661	NV	40	22.47	0.011952	PASS
EGPRS1900	661	NV	50	30.51	0.016229	PASS

---End of Attachment---



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