



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Appendix B.1

GSM 850&1900



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT1

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.25	30.10	38.45	PASS
GSM850	190	32.25	30.10	38.45	PASS
GSM850	251	32.24	30.09	38.45	PASS
Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	29.19	29.50	33.00	PASS
GSM1900	661	29.07	29.38	33.00	PASS
GSM1900	810	28.95	29.26	33.00	PASS



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Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.23	24.08	38.45	PASS
EGPRS850	128	2	25.05	22.90	38.45	PASS
EGPRS850	128	3	22.89	20.74	38.45	PASS
EGPRS850	128	4	21.51	19.36	38.45	PASS
EGPRS850	190	1	26.09	23.94	38.45	PASS
EGPRS850	190	2	25.04	22.89	38.45	PASS
EGPRS850	190	3	22.81	20.66	38.45	PASS
EGPRS850	190	4	21.48	19.33	38.45	PASS
EGPRS850	251	1	26.02	23.87	38.45	PASS
EGPRS850	251	2	24.93	22.78	38.45	PASS
EGPRS850	251	3	22.73	20.58	38.45	PASS
EGPRS850	251	4	21.32	19.17	38.45	PASS
Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	25.94	26.25	33.00	PASS
EGPRS1900	512	2	24.94	25.25	33.00	PASS
EGPRS1900	512	3	22.91	23.22	33.00	PASS
EGPRS1900	512	4	21.80	22.11	33.00	PASS
EGPRS1900	661	1	25.50	25.81	33.00	PASS
EGPRS1900	661	2	24.54	24.85	33.00	PASS
EGPRS1900	661	3	22.51	22.82	33.00	PASS
EGPRS1900	661	4	21.38	21.69	33.00	PASS
EGPRS1900	810	1	24.88	25.19	33.00	PASS
EGPRS1900	810	2	23.90	24.21	33.00	PASS
EGPRS1900	810	3	21.84	22.15	33.00	PASS
EGPRS1900	810	4	20.75	21.06	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	8.9	13	PASS
GSM850	190	8.9	13	PASS
GSM850	251	9.83	13	PASS
EGPRS850	128	12.41	13	PASS
EGPRS850	190	12.41	13	PASS
EGPRS850	251	11.54	13	PASS
GSM1900	512	9.74	13	PASS
GSM1900	661	8.9	13	PASS
GSM1900	810	8.9	13	PASS
EGPRS1900	512	11.59	13	PASS
EGPRS1900	661	11.57	13	PASS
EGPRS1900	810	12.7	13	PASS



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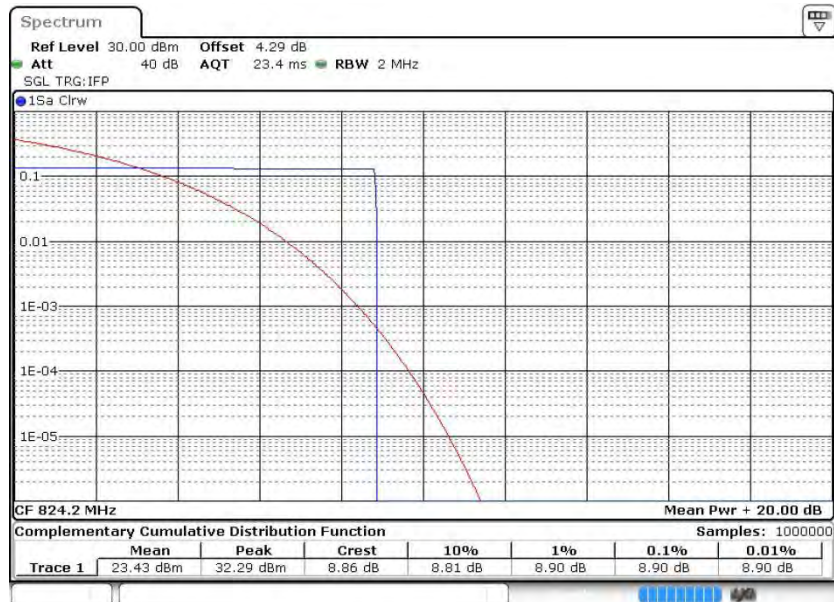


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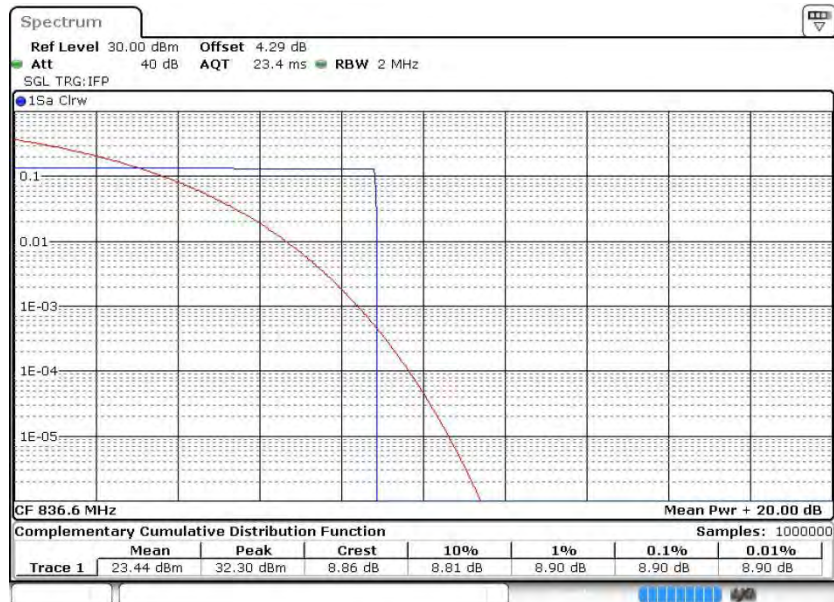
Test Graphs

GSM850-128



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GSM850-190



Date: 18 JAN 2024 10:30:48



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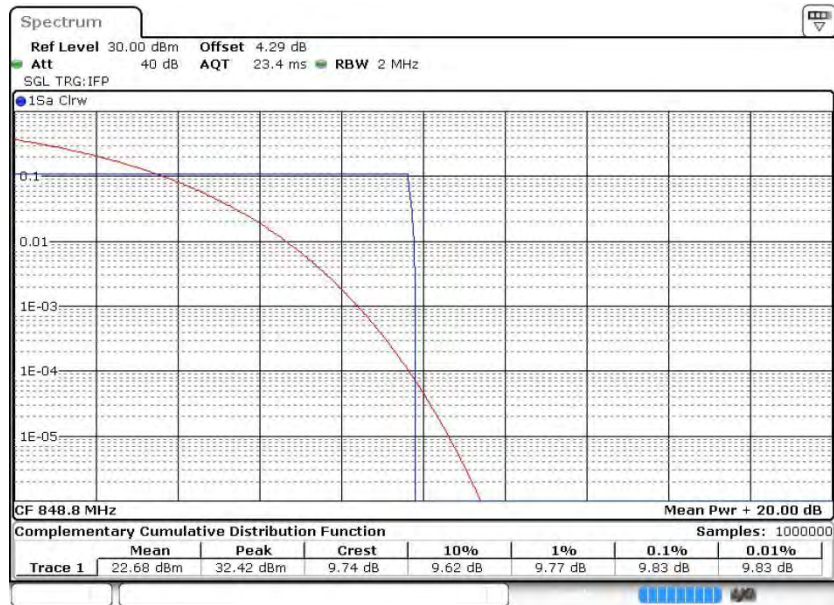
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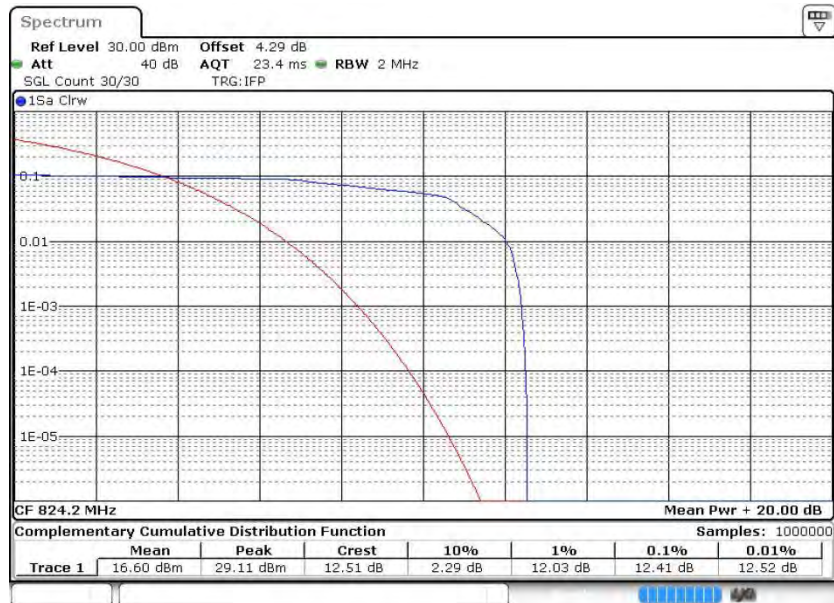
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GSM850-251



Date: 18 JAN 2024 10:30:57

EGPRS850-128



Date: 18 JAN 2024 10:39:55



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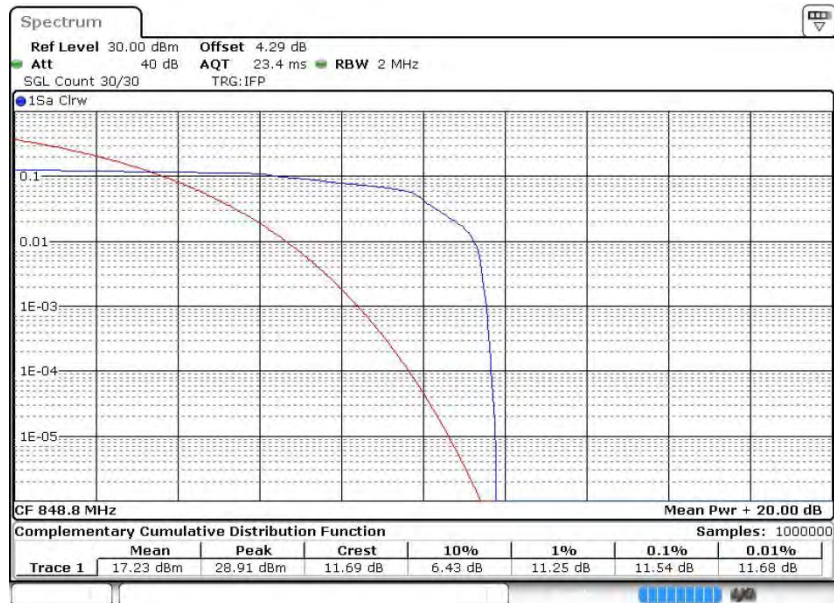
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EGPRS850-190



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EGPRS850-251



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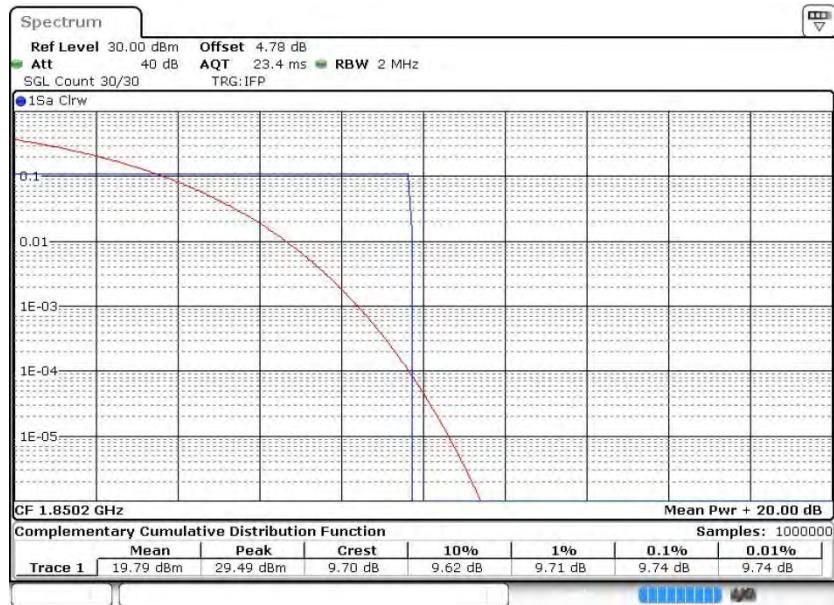
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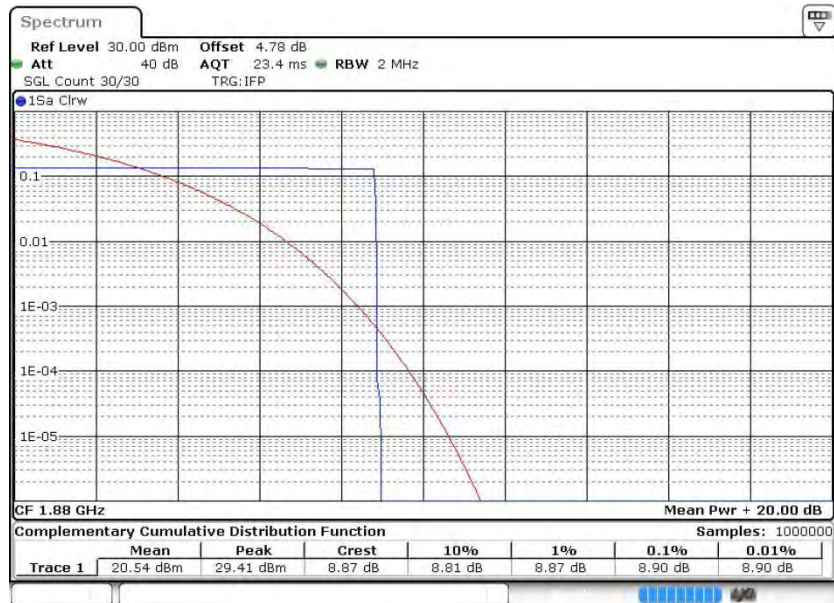
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GSM1900-512



Date: 18 JAN 2024 10:49:14

GSM1900-661



Date: 18 JAN 2024 10:49:23



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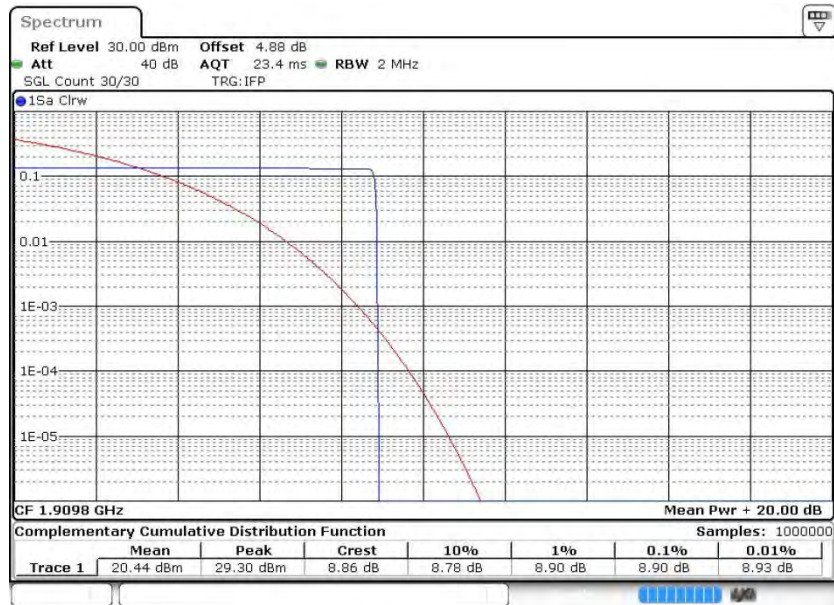
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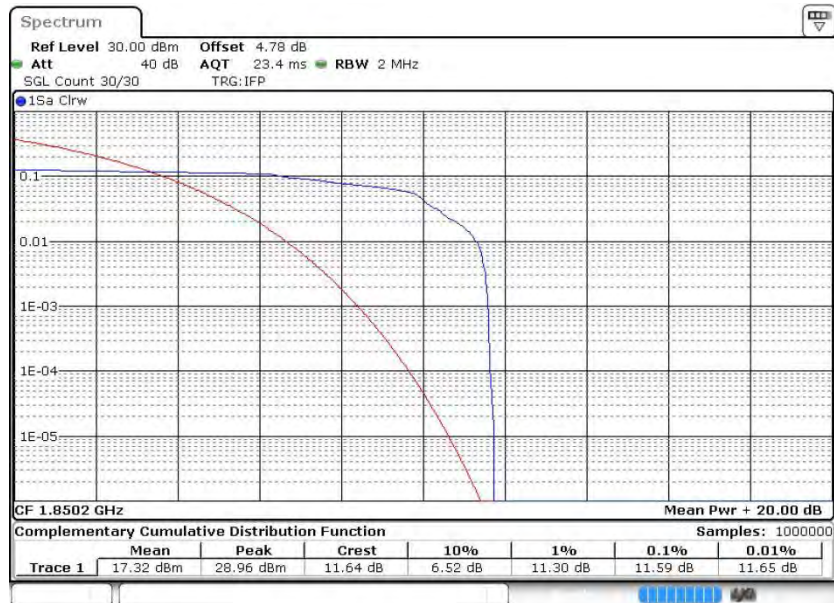
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GSM1900-810



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EGPRS1900-512



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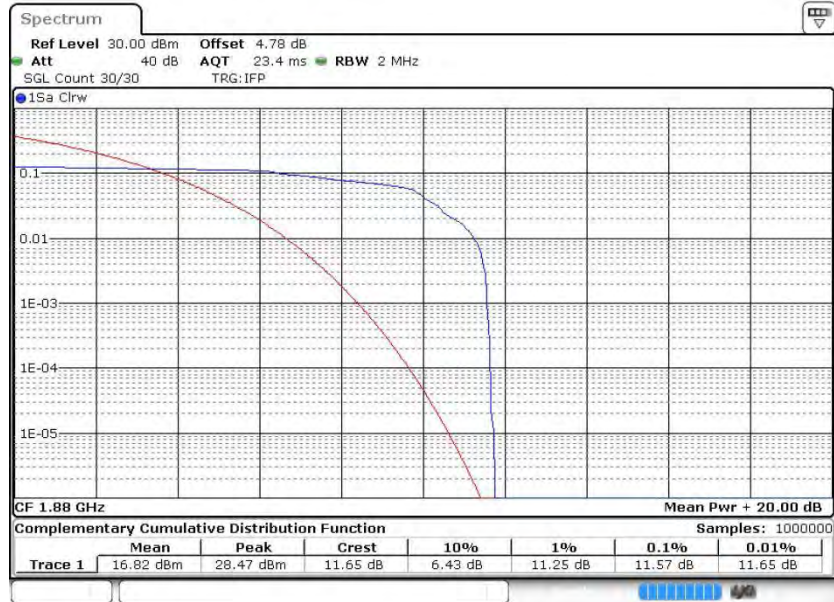
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EGPRS1900-661



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EGPRS1900-810



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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	0.245	0.32	---	PASS
GSM850	251	0.245	0.32	---	PASS
EGPRS850	128	0.248	0.32	---	PASS
EGPRS850	190	0.248	0.32	---	PASS
EGPRS850	251	0.247	0.31	---	PASS
GSM1900	512	0.245	0.32	---	PASS
GSM1900	661	0.244	0.32	---	PASS
GSM1900	810	0.244	0.32	---	PASS
EGPRS1900	512	0.249	0.32	---	PASS
EGPRS1900	661	0.25	0.32	---	PASS
EGPRS1900	810	0.25	0.32	---	PASS



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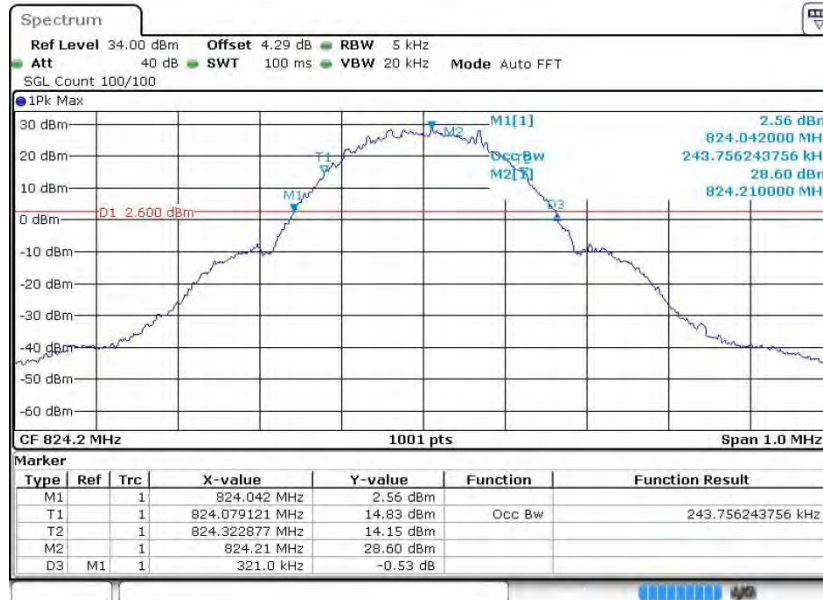


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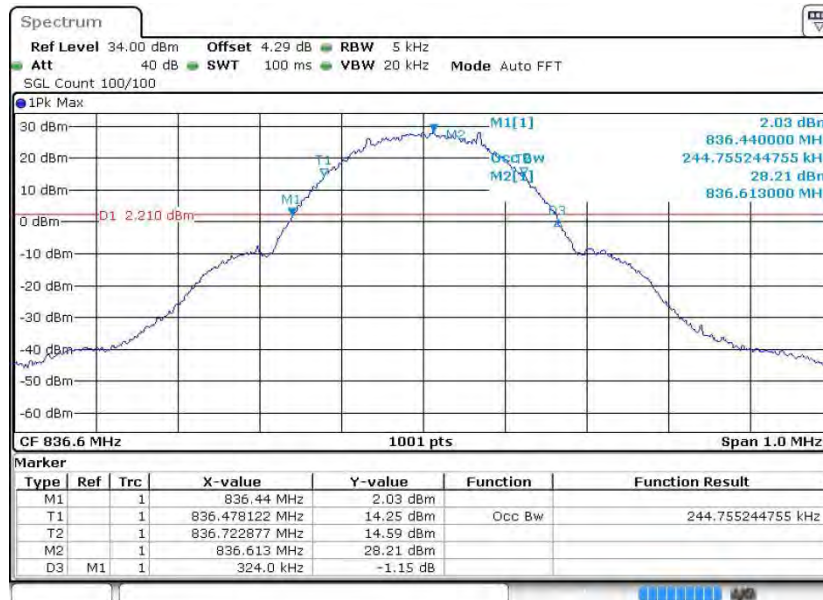
Test Graphs

GSM850-128



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GSM850-190



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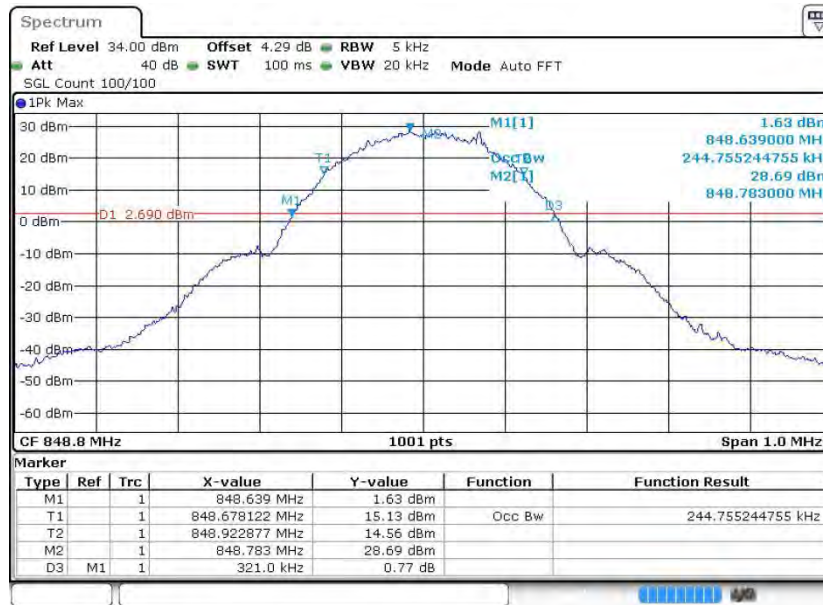
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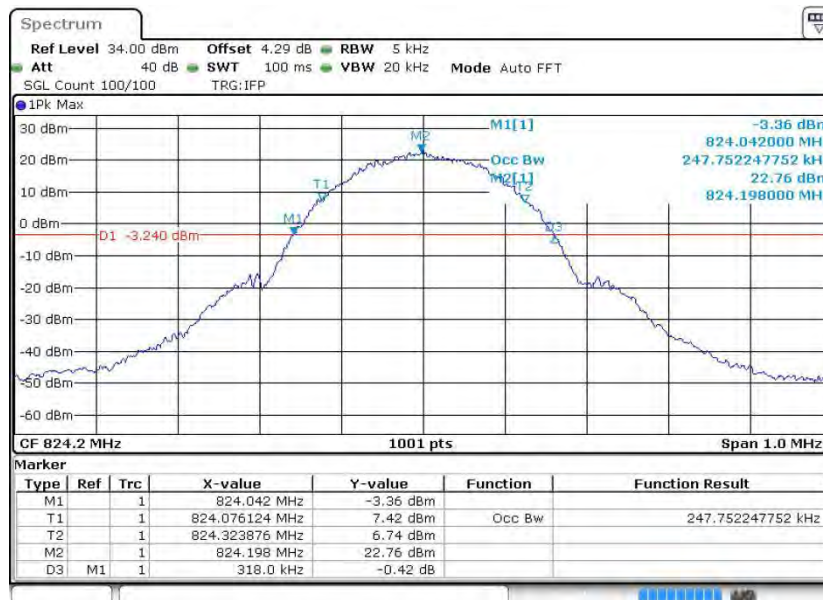
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Date: 18 JAN 2024 10:37:39

EGPRS850-128



Date: 18 JAN 2024 10:43:49



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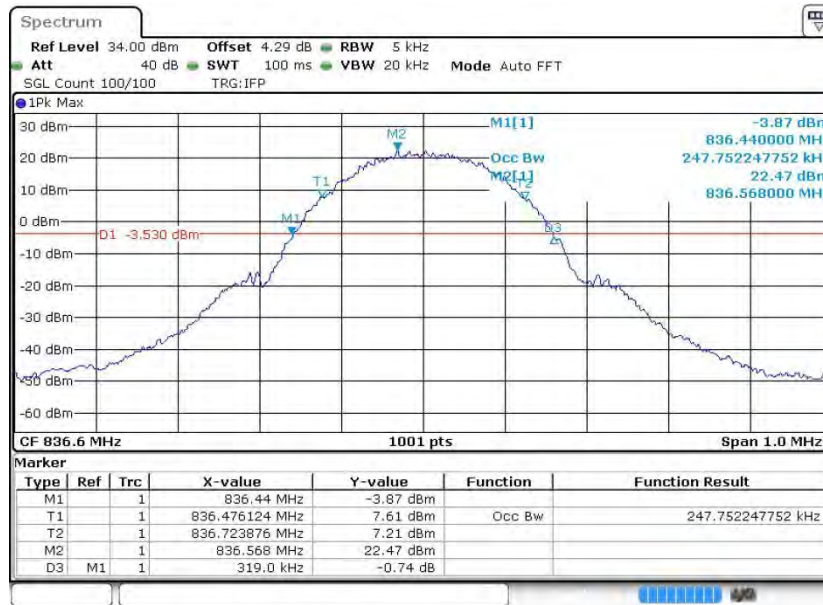
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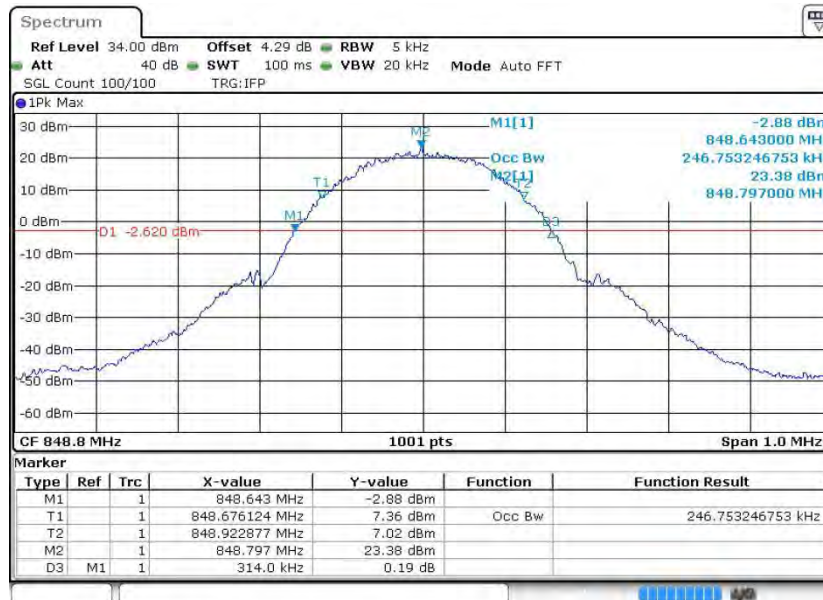
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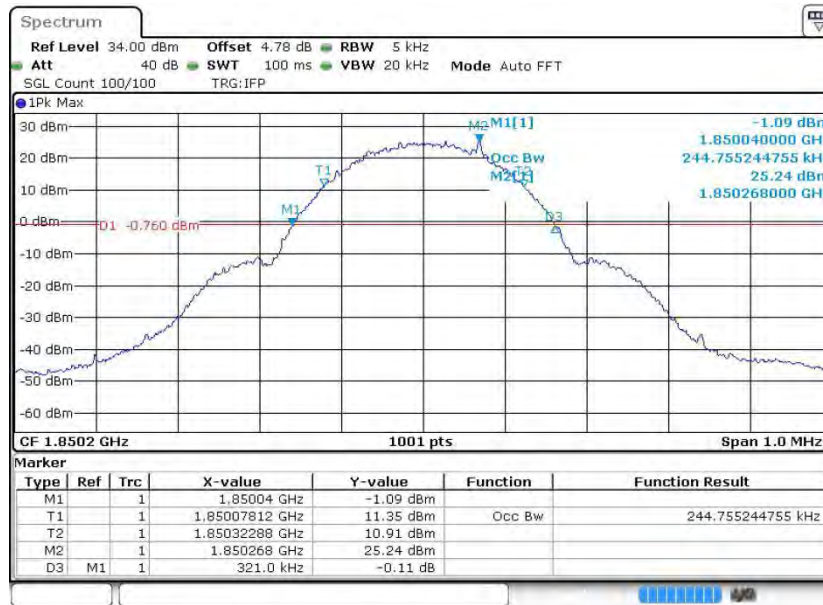
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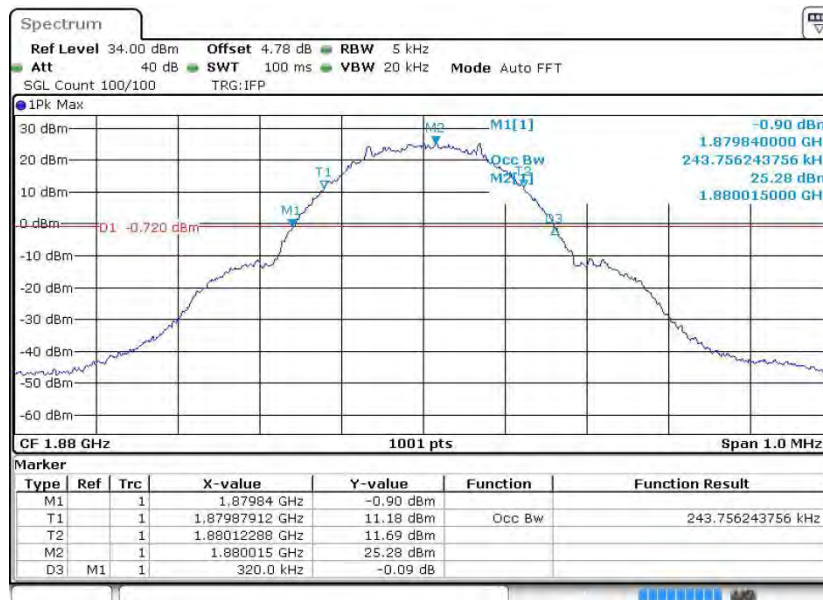
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Date: 18.JAN.2024 10:50:35

GSM1900-661



Date: 18.JAN.2024 10:50:52



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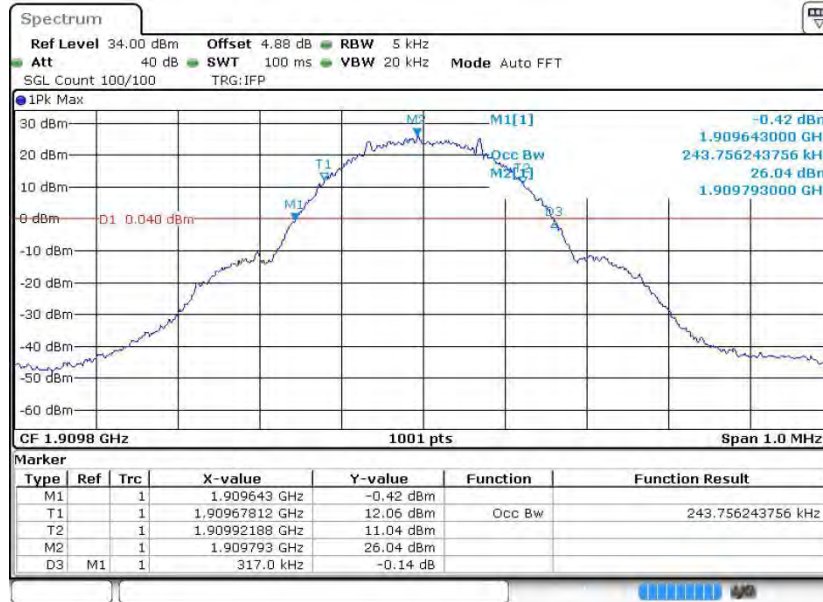
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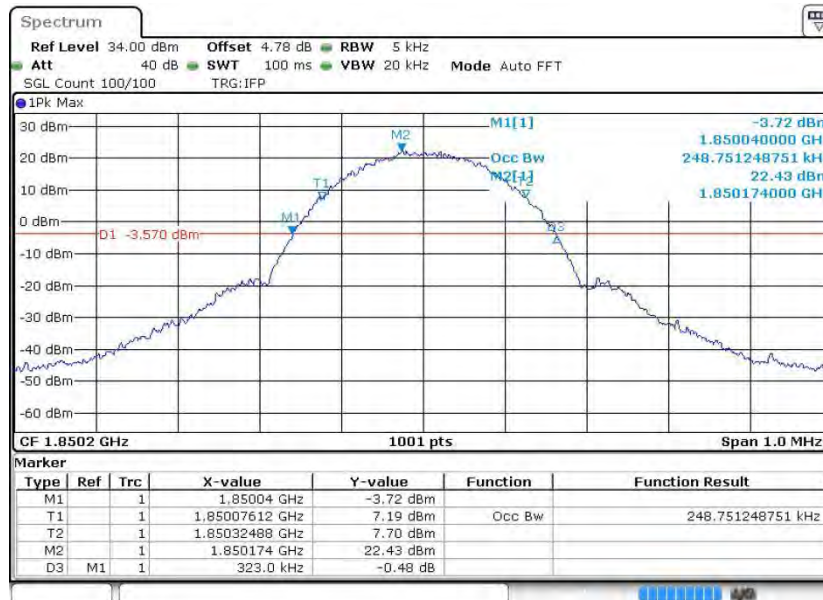
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Date: 18.JAN.2024 10:51:09

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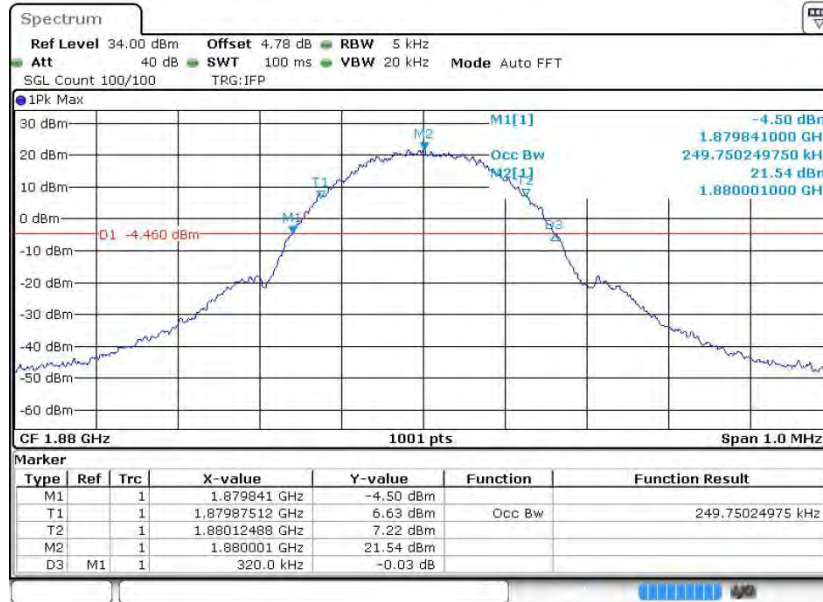
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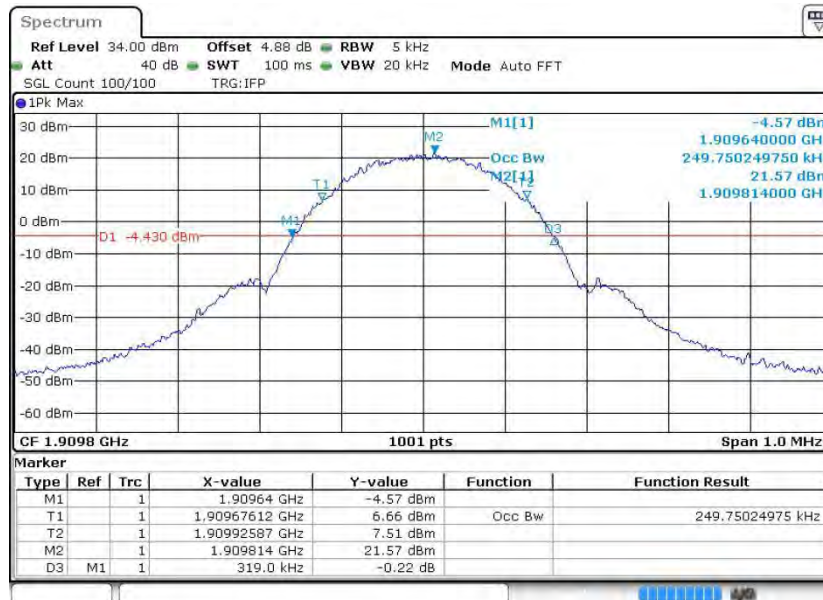
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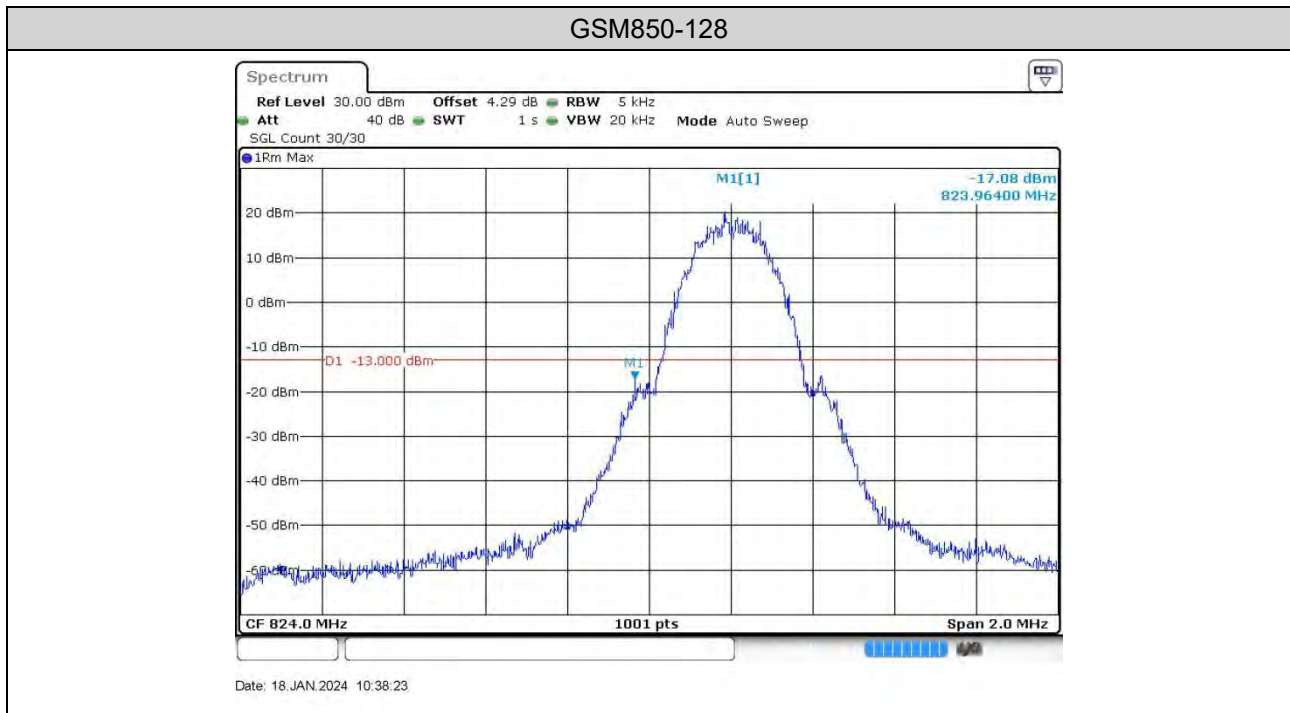


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Band Edge

Test Graphs



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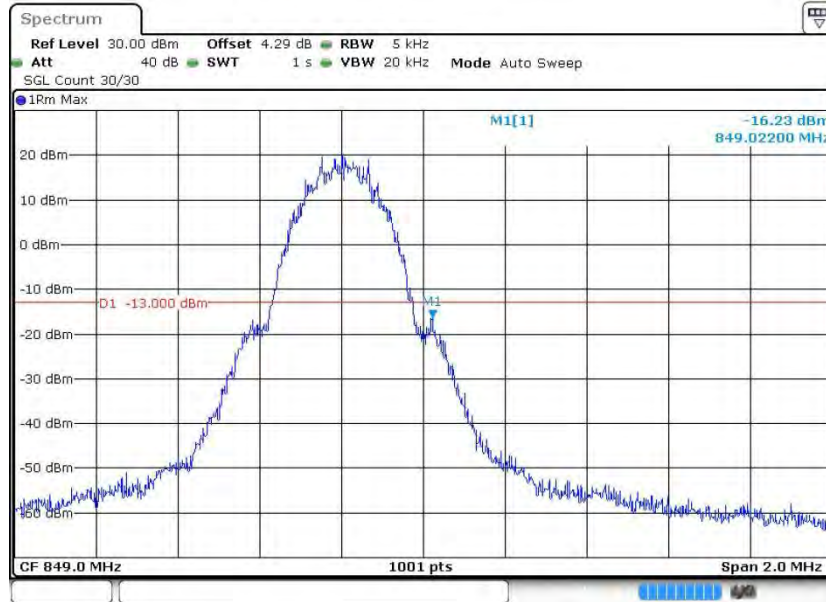
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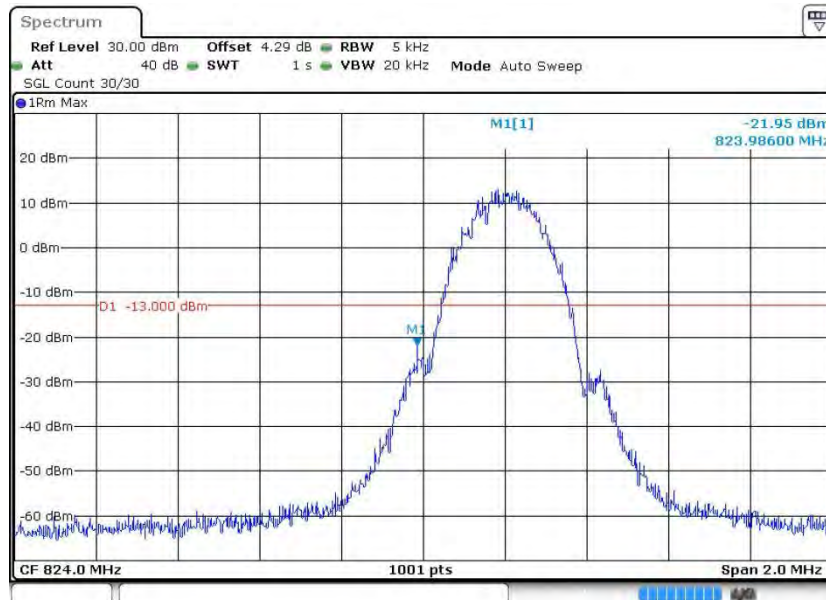
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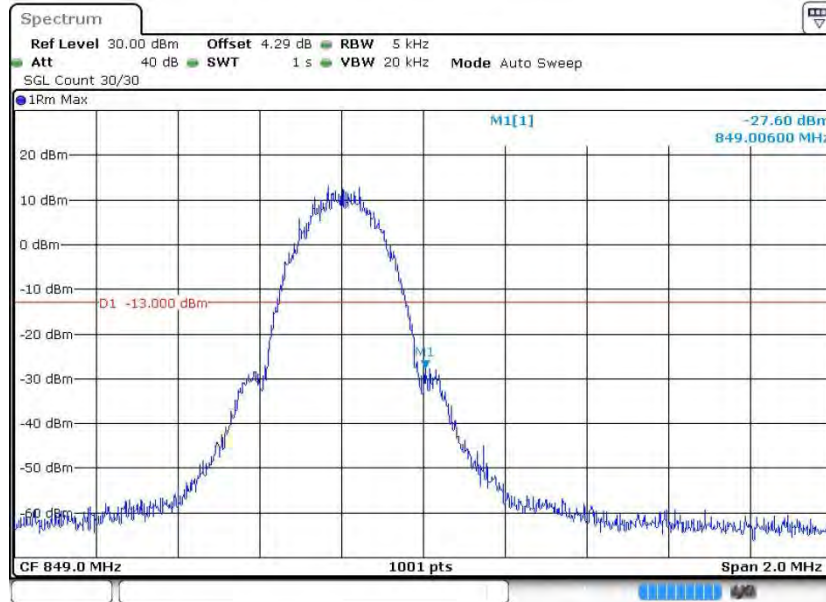
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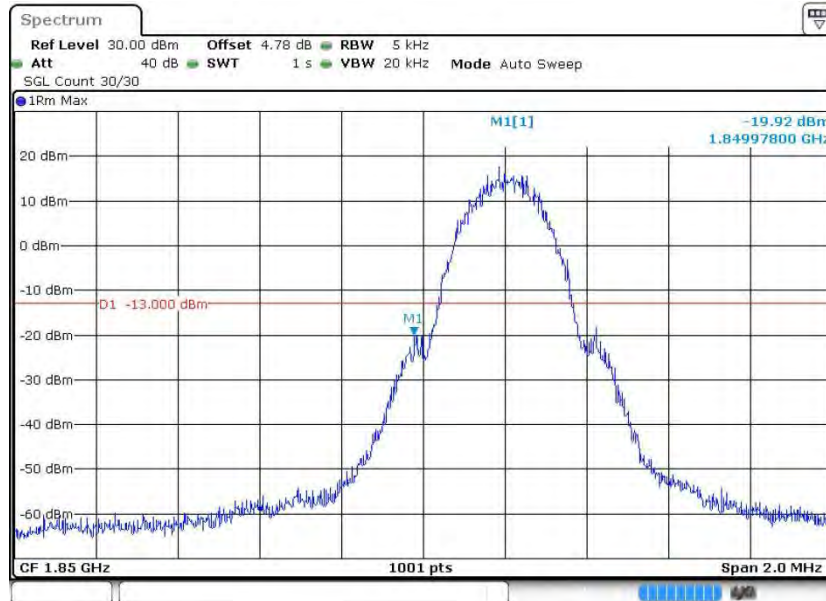
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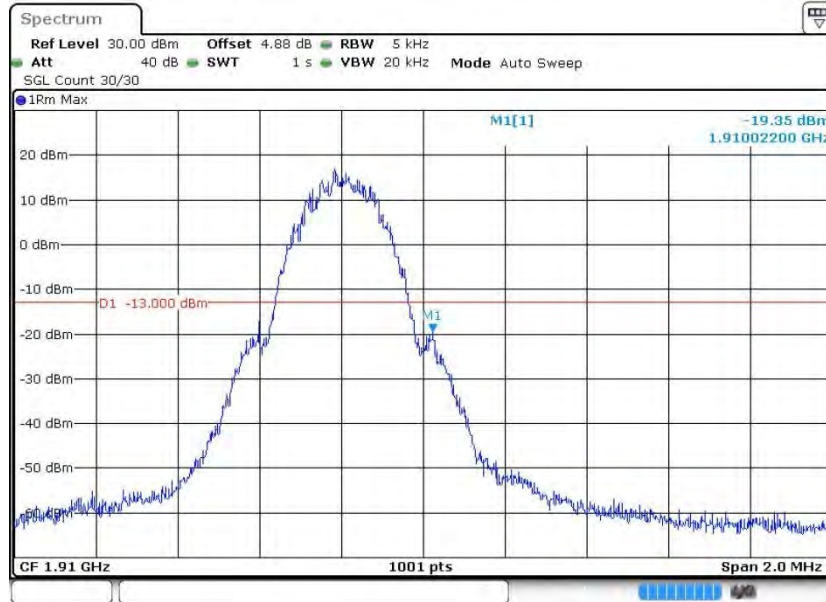
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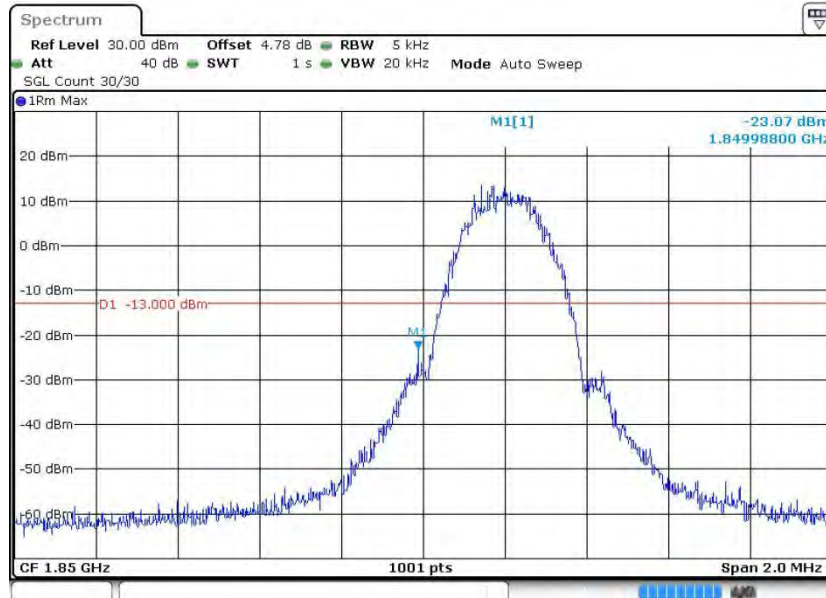
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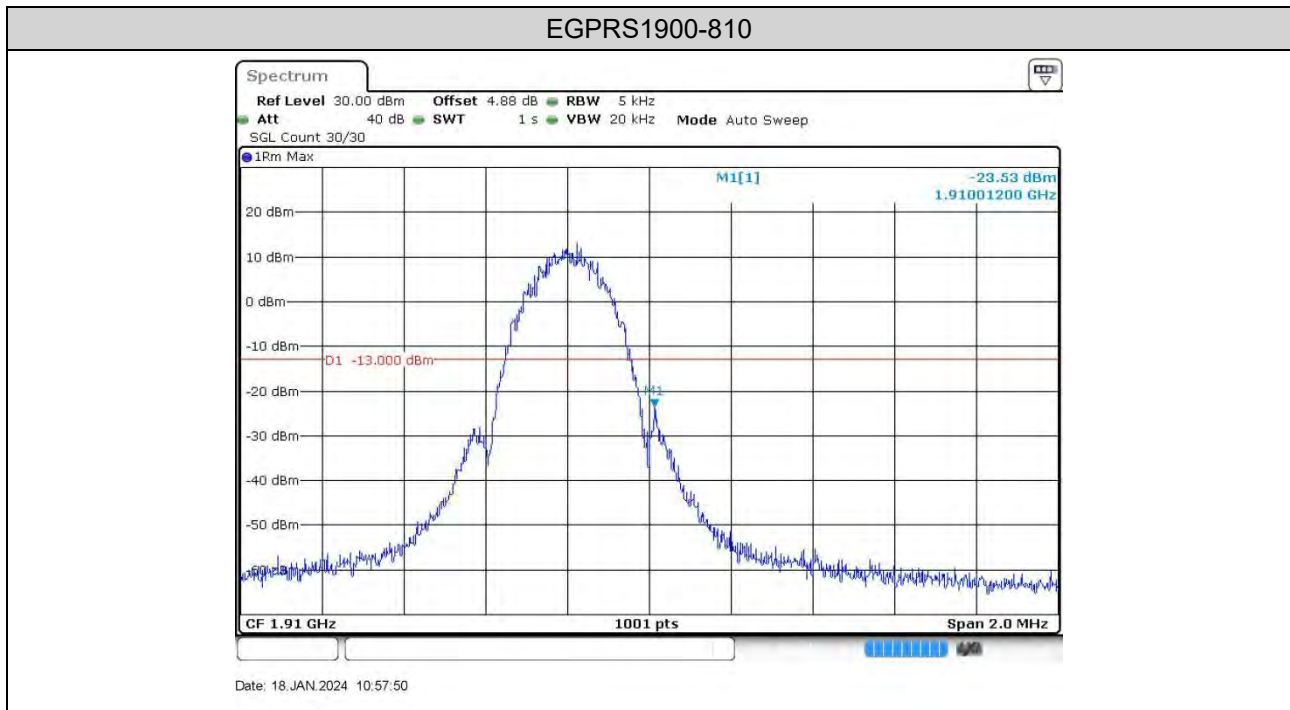
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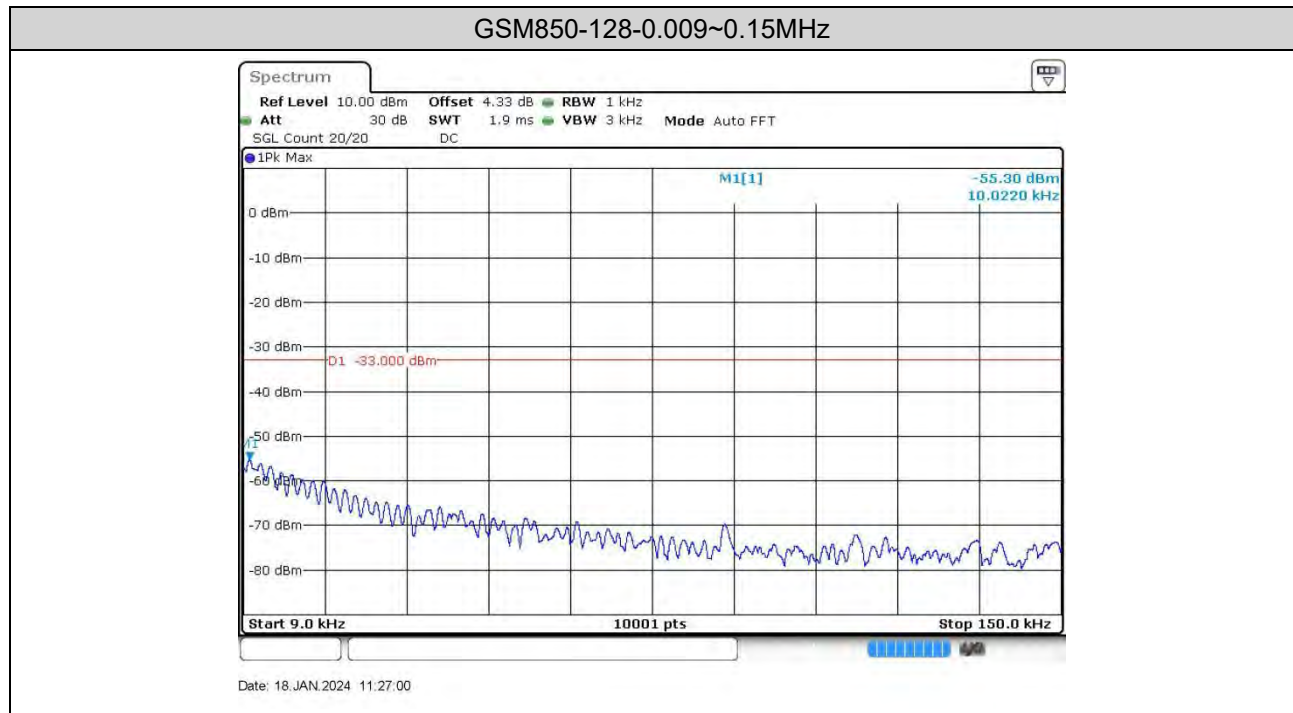


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Conducted Spurious Emission

Test Graphs



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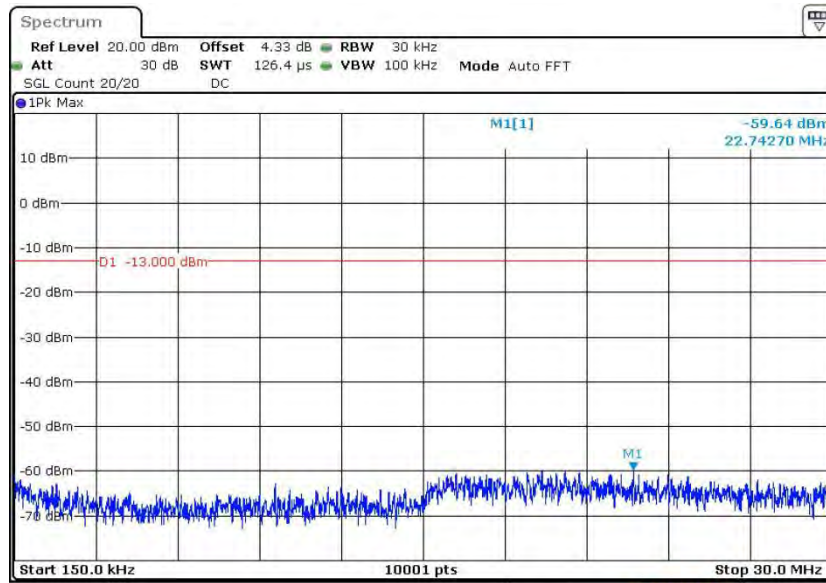
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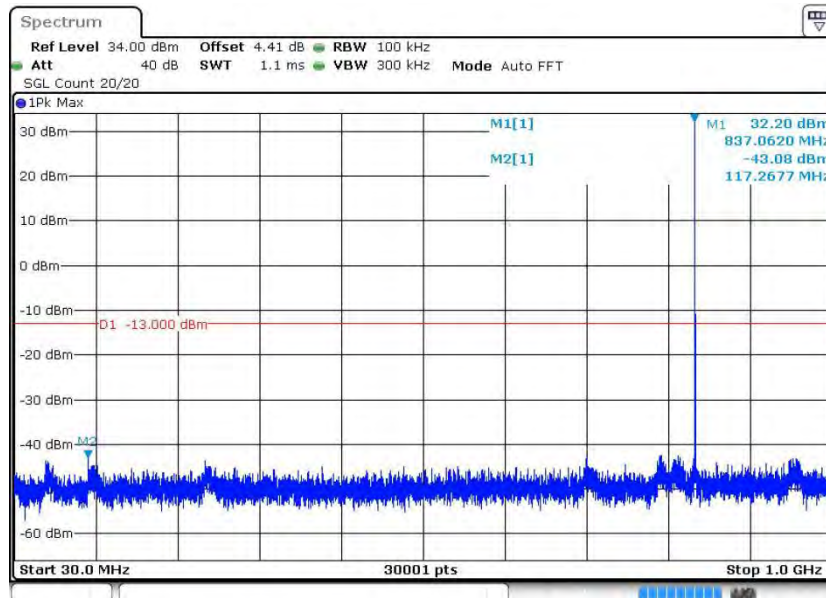
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GSM850-128-30~1000MHz



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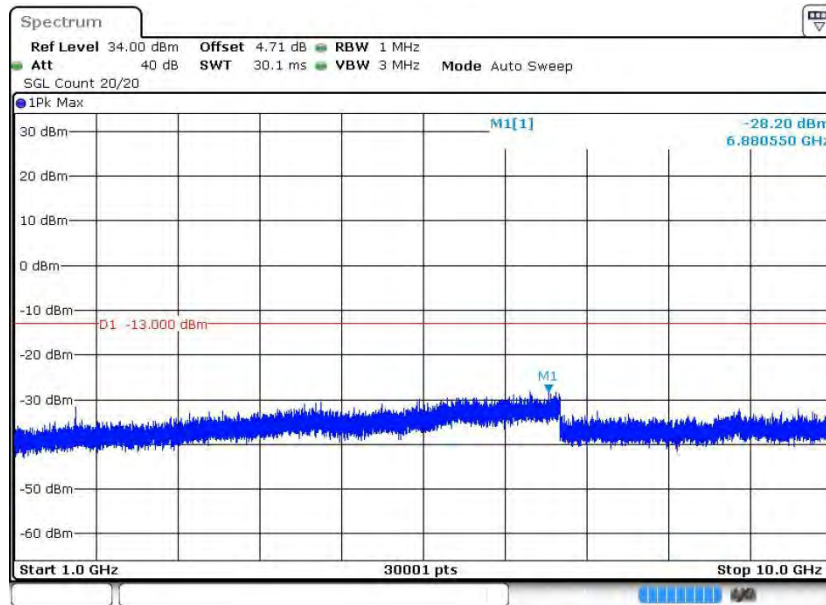
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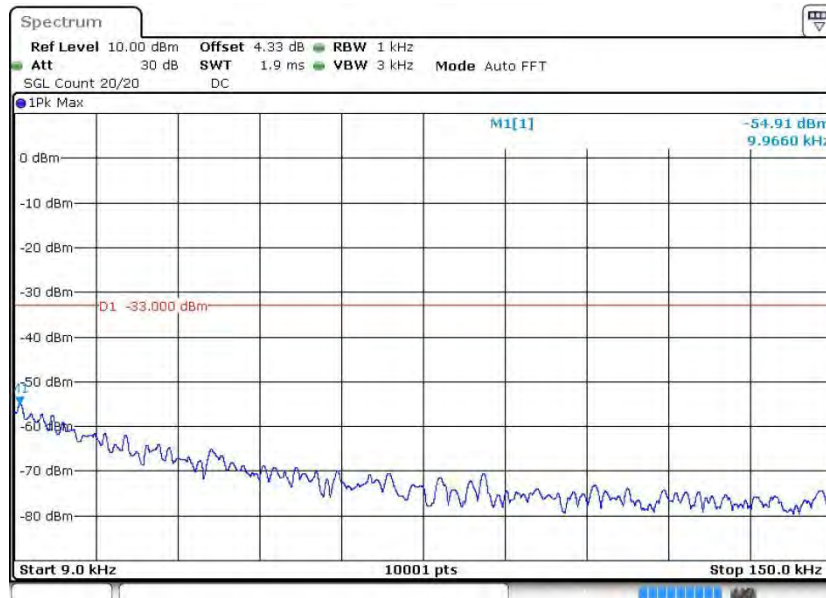
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GSM850-190-0.009~0.15MHz



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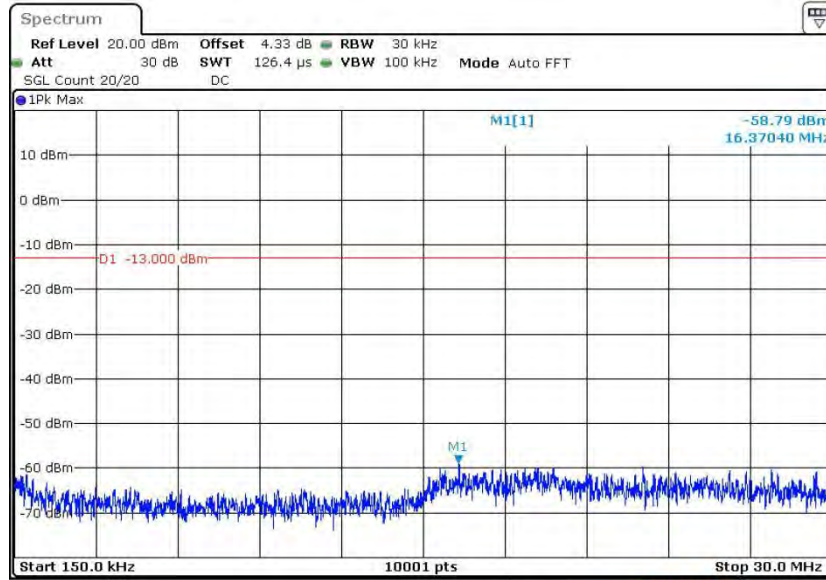
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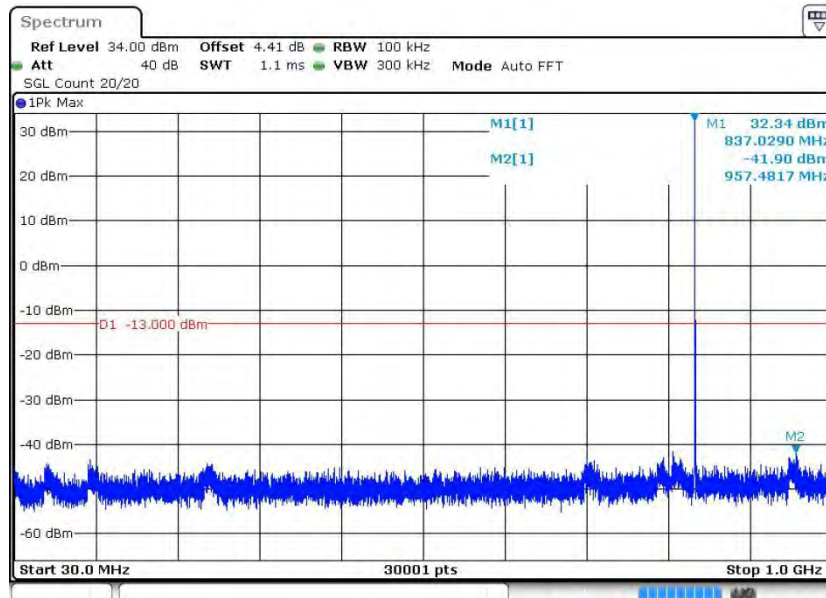
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GSM850-190-0.15~30MHz



Date: 18.JAN.2024 11:27:17

GSM850-190-30~1000MHz



Date: 18.JAN.2024 11:27:22



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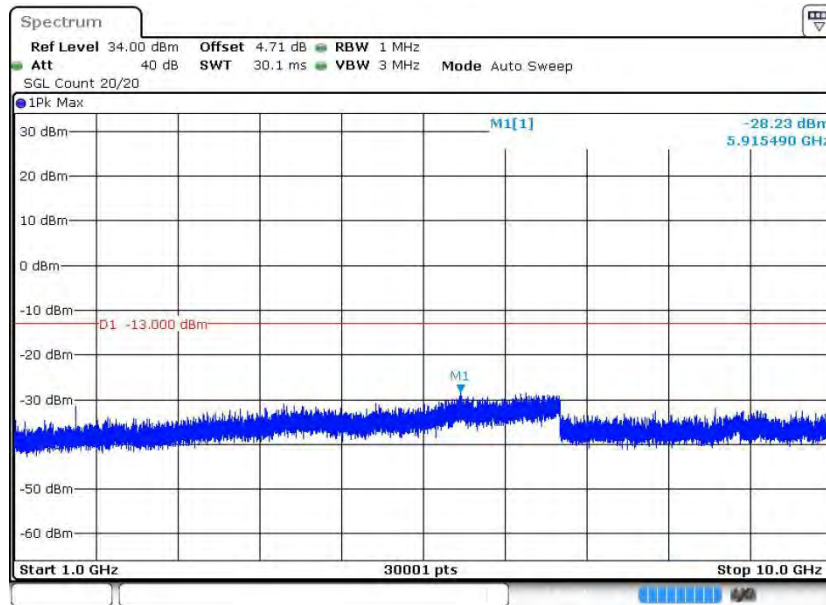
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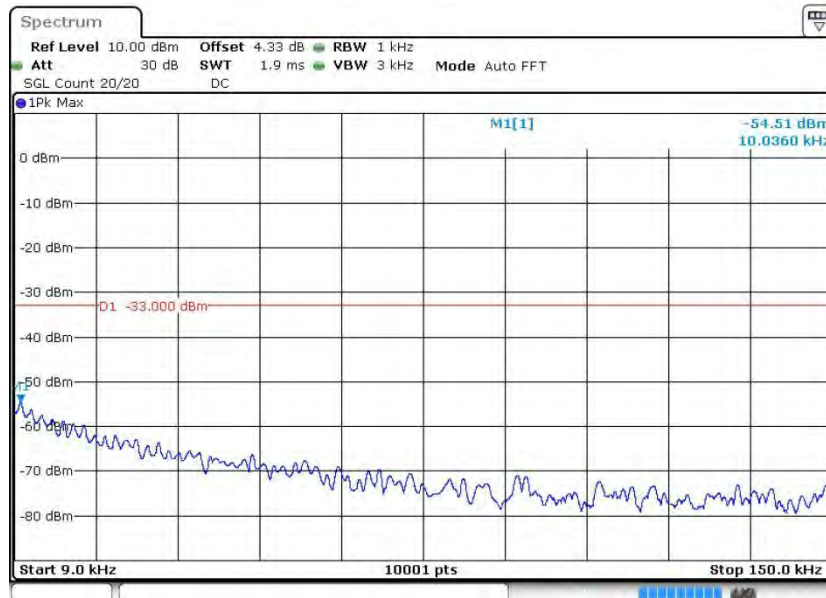
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Date: 18.JAN.2024 11:27:27

GSM850-251-0.009~0.15MHz



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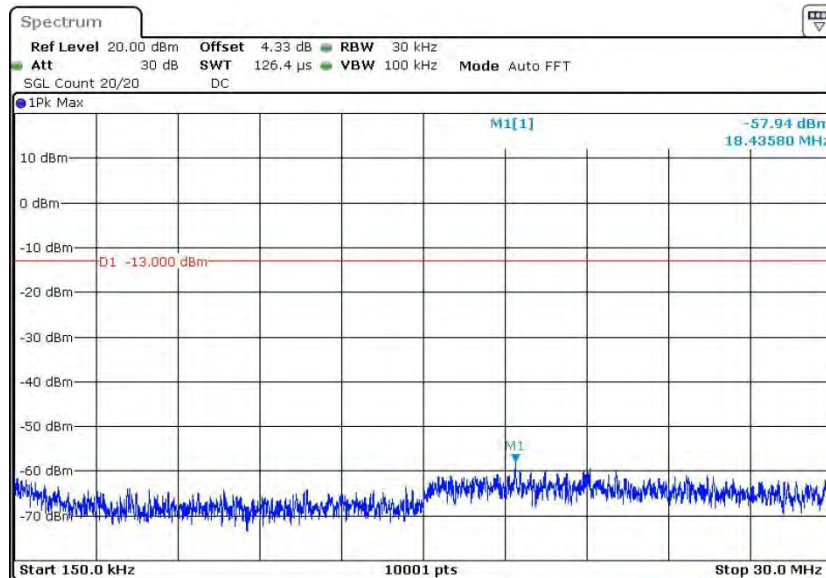
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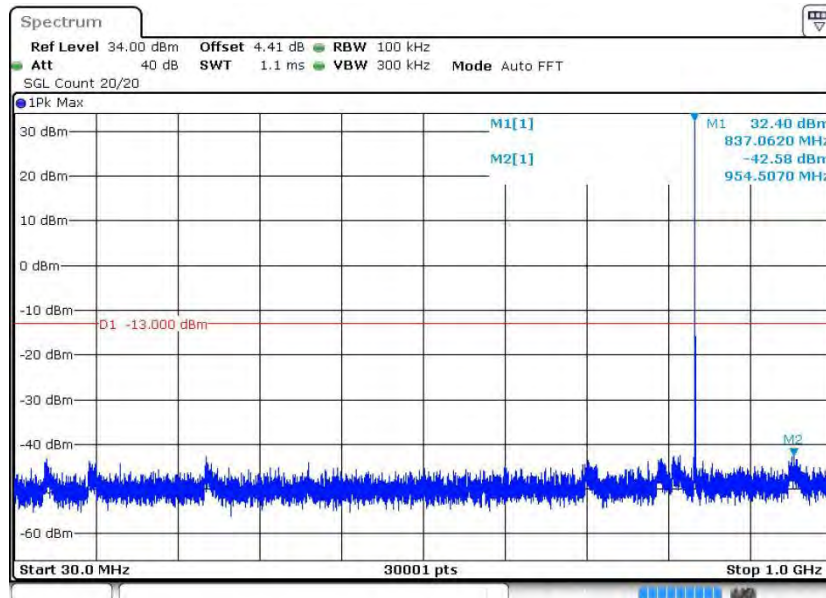
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GSM850-251-0.15~30MHz



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GSM850-251-30~1000MHz



Date: 18.JAN.2024 11:27:37



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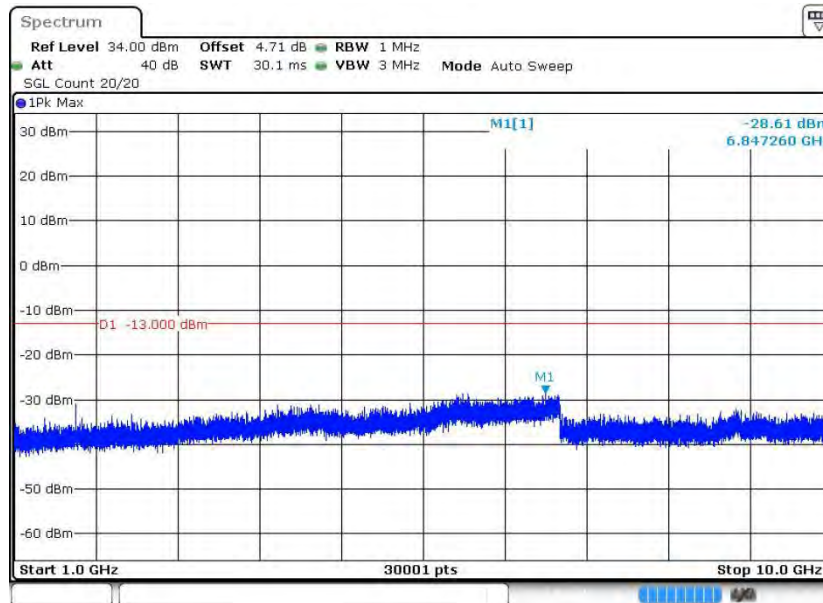
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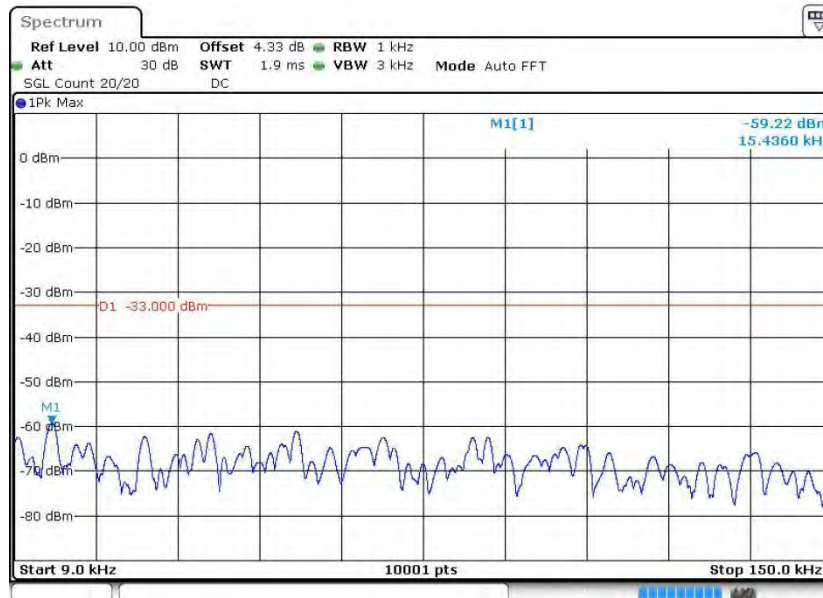
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GSM850-251-1000~10000MHz



Date: 18.JAN.2024 11:27:42

EGPRS850-128-0.009~0.15MHz



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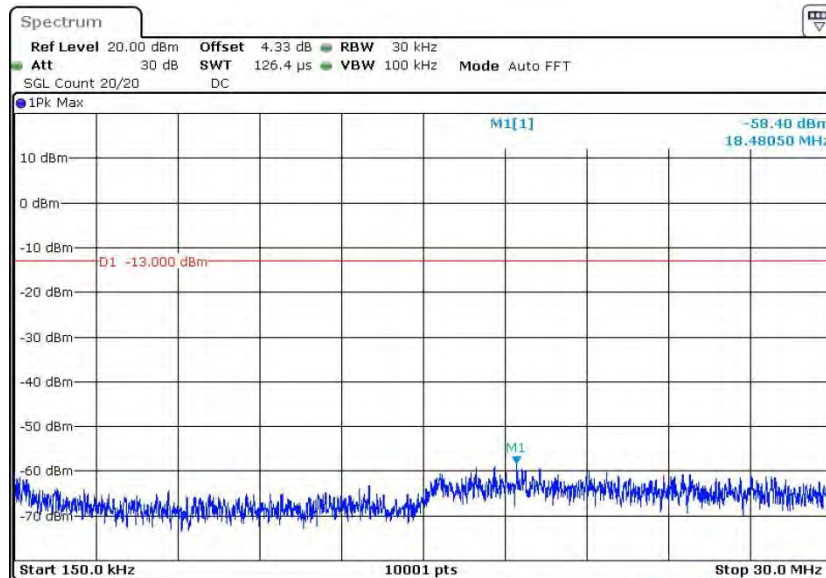
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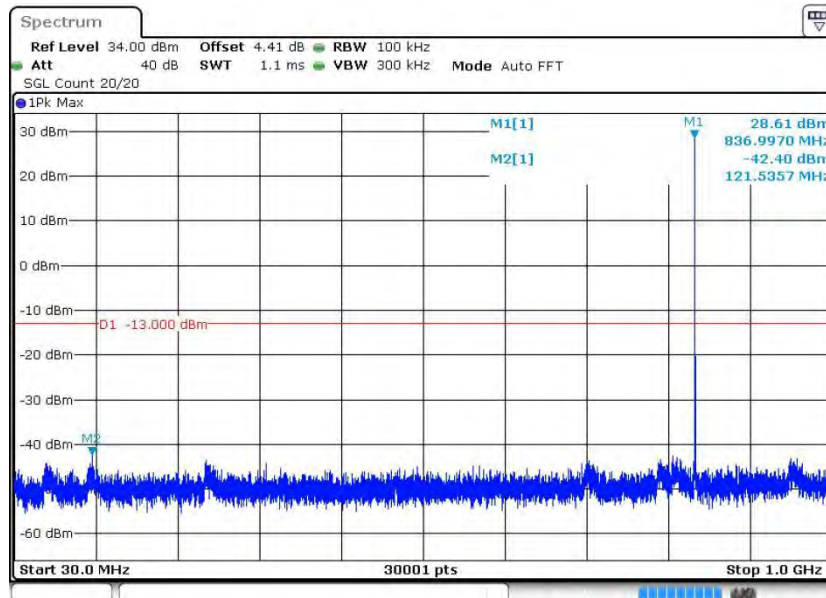
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Date: 18.JAN.2024 11:30:10

EGPRS850-128-30~1000MHz



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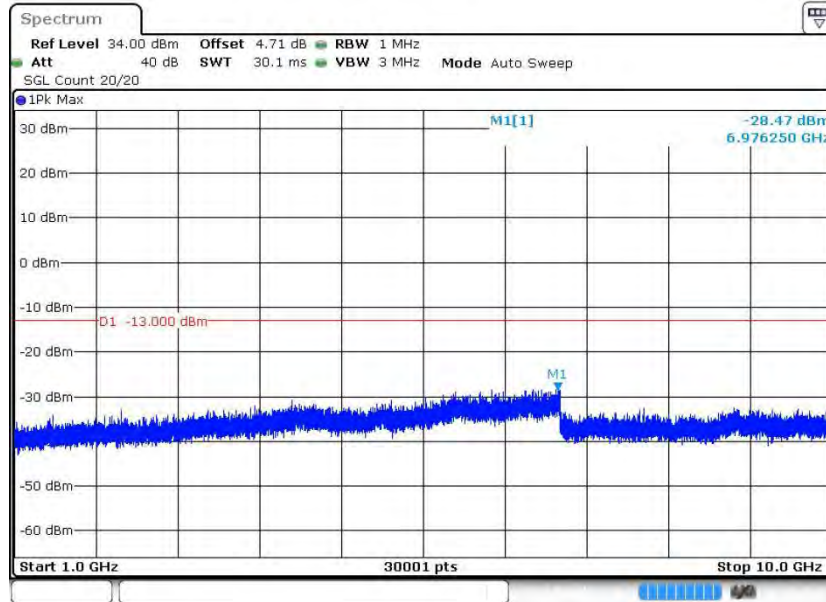
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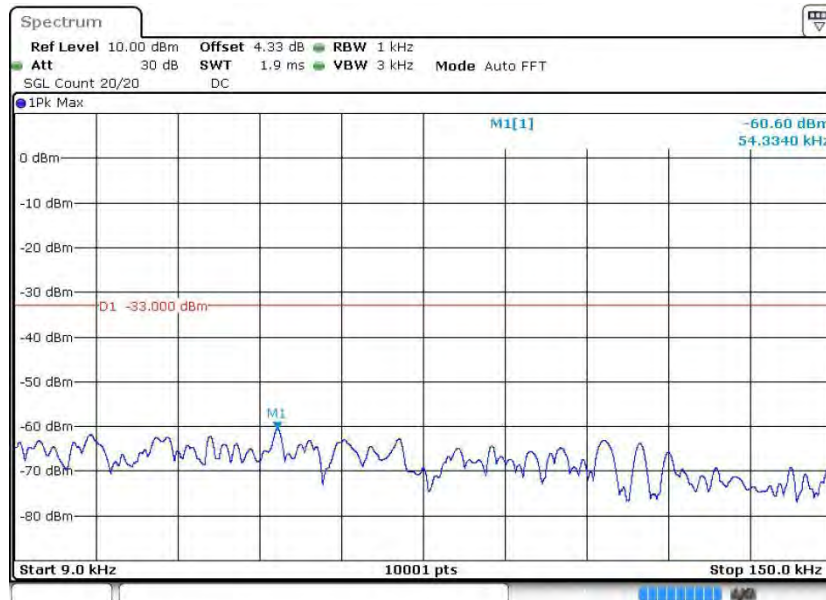
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EGPRS850-190-0.009~0.15MHz



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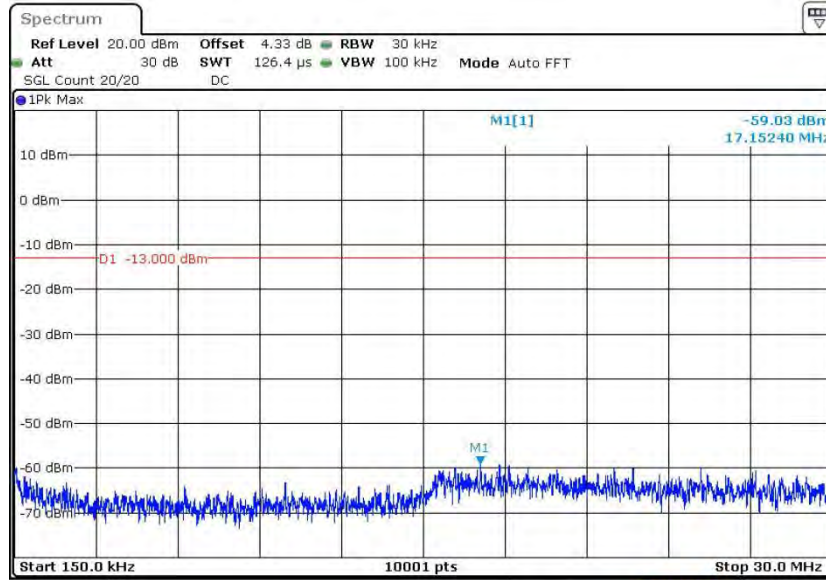
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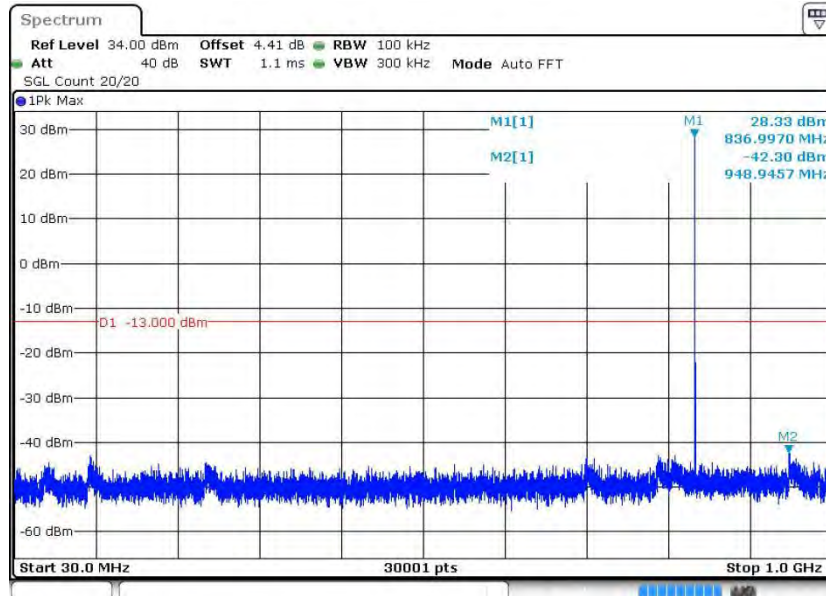
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EGPRS850-190-0.15~30MHz



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EGPRS850-190-30~1000MHz



Date: 18 JAN 2024 11:30:42



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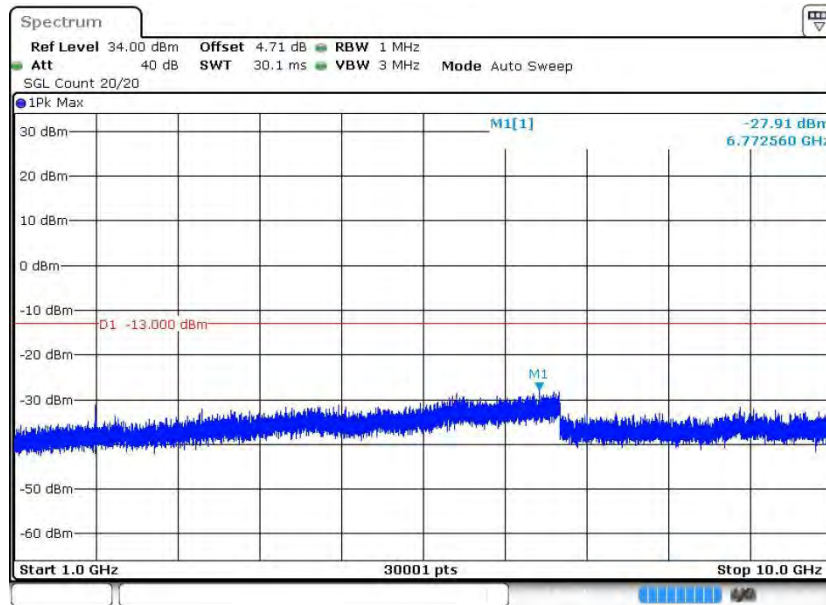
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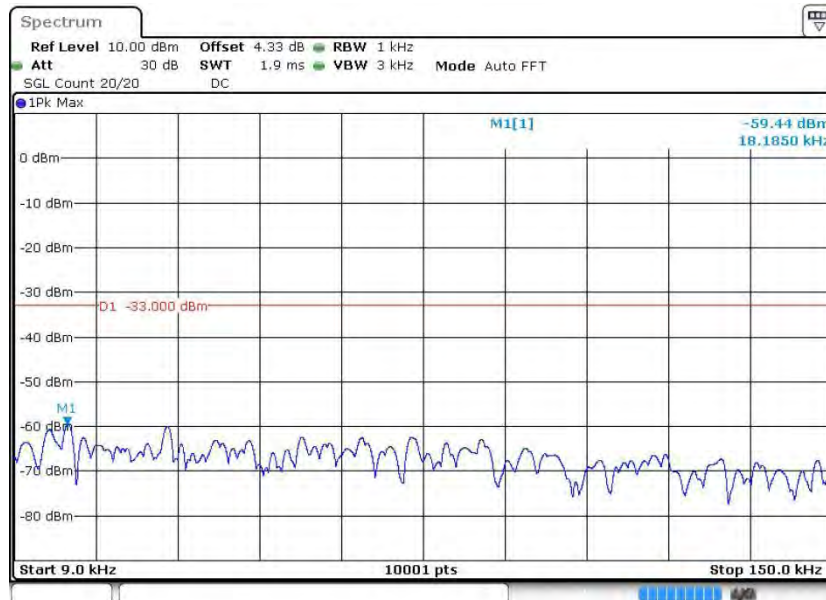
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Date: 18.JAN.2024 11:30:46

EGPRS850-251-0.009~0.15MHz



Date: 18.JAN.2024 11:31:00



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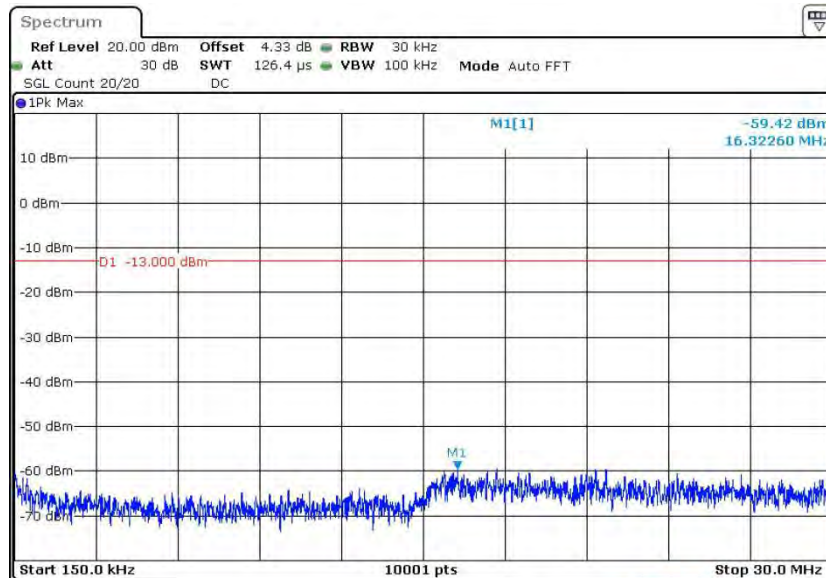
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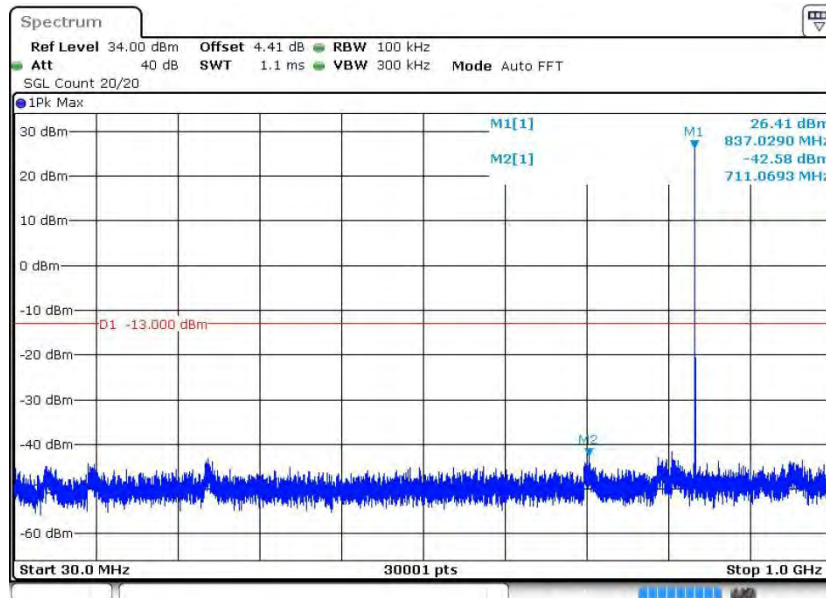
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Date: 18.JAN.2024 11:31:02

EGPRS850-251-30~1000MHz



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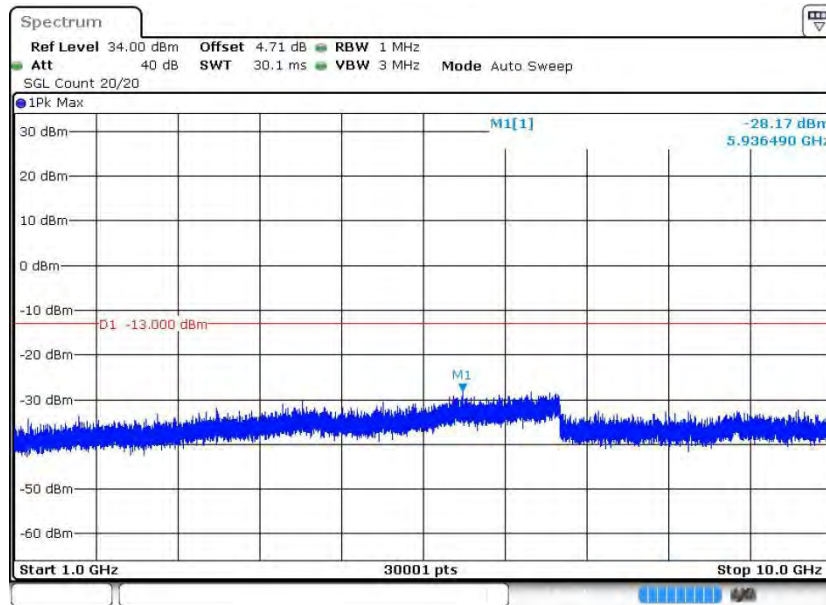
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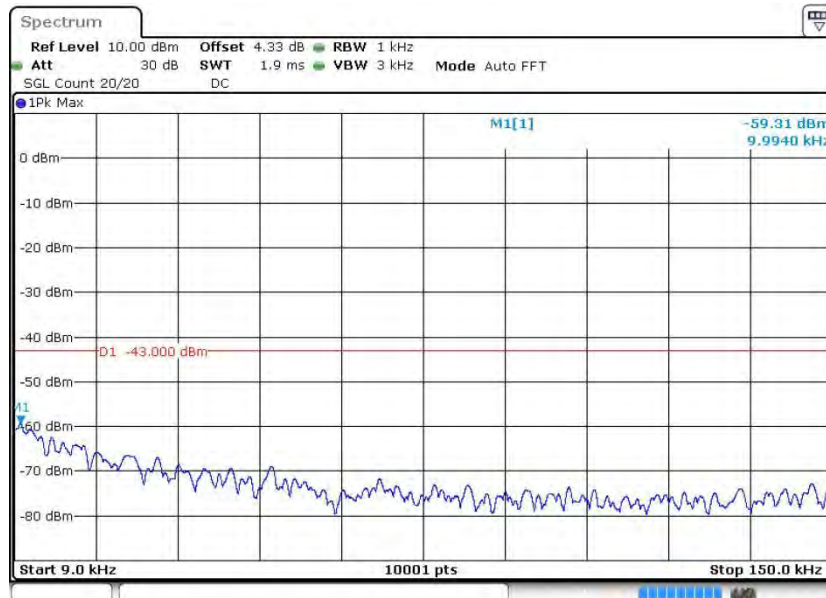
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GSM1900-512-0.009~0.15MHz



Date: 18.JAN.2024 11:33:26



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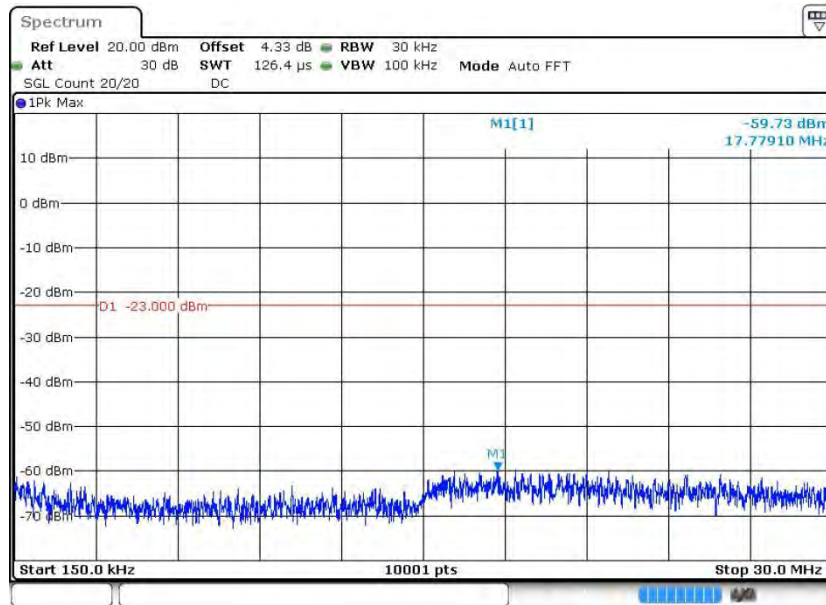
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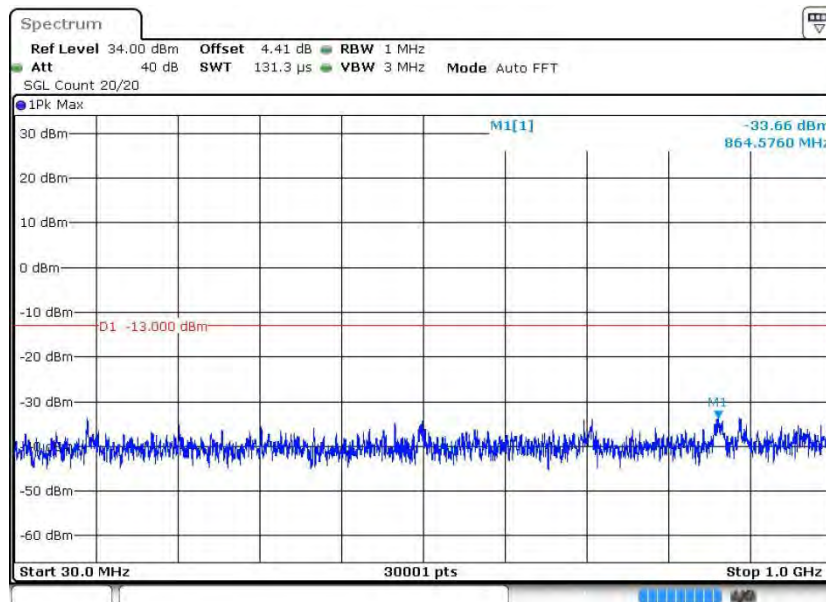
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GSM1900-512-0.15~30MHz



Date: 18.JAN.2024 11:33:28

GSM1900-512-30~1000MHz



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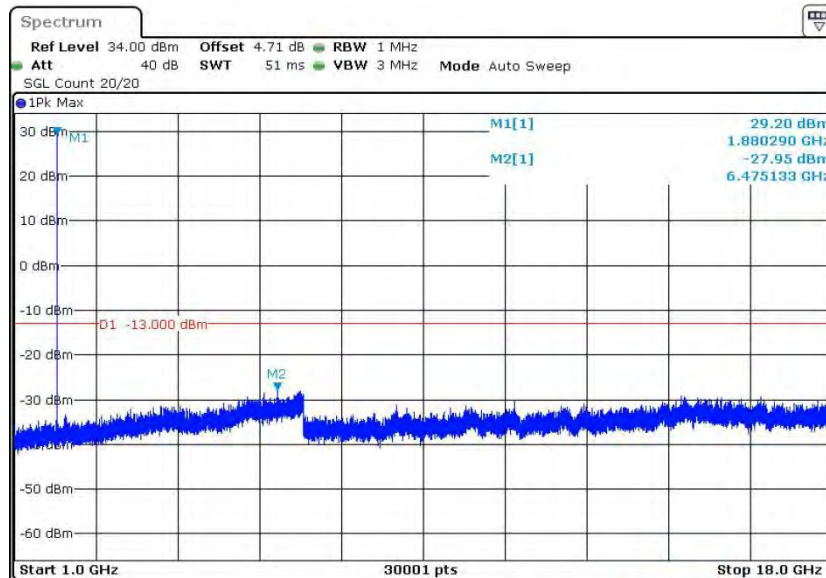
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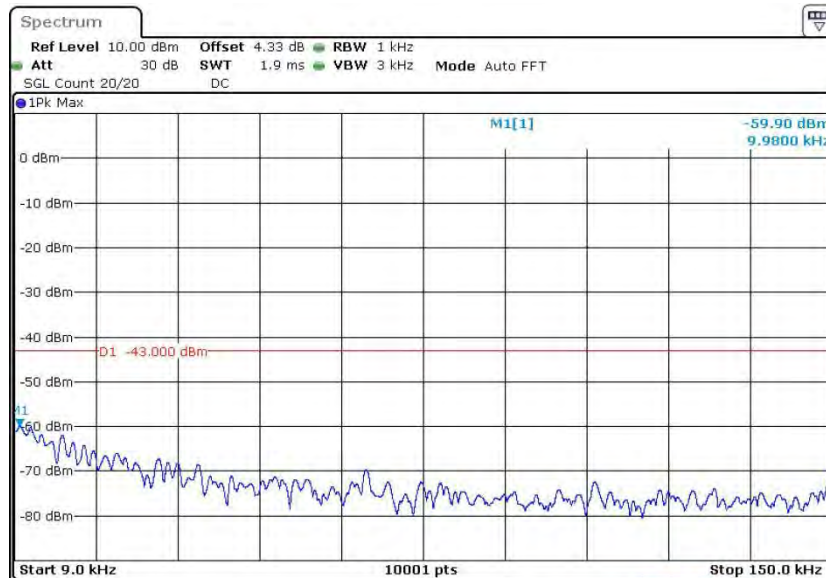
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GSM1900-512-1000~18000MHz



Date: 18.JAN.2024 11:33:40

GSM1900-661-0.009~0.15MHz



Date: 18.JAN.2024 11:33:43



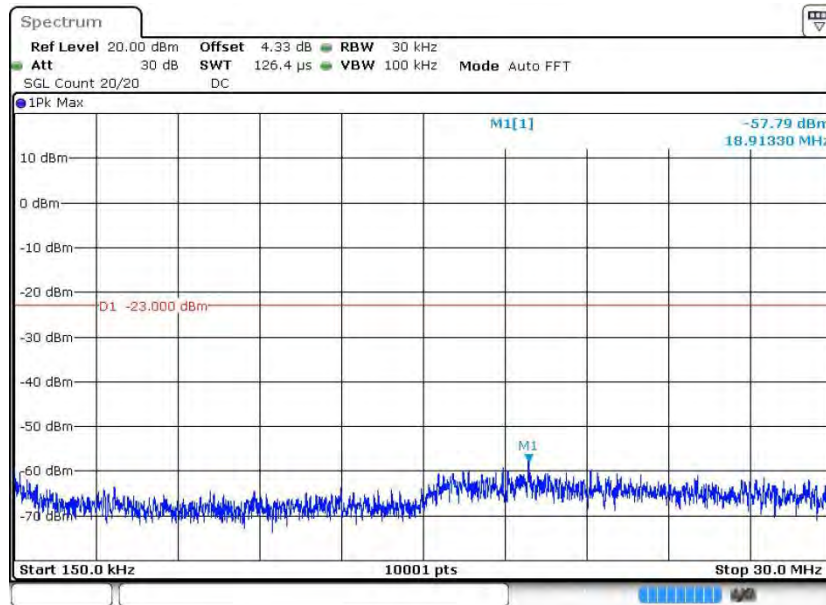
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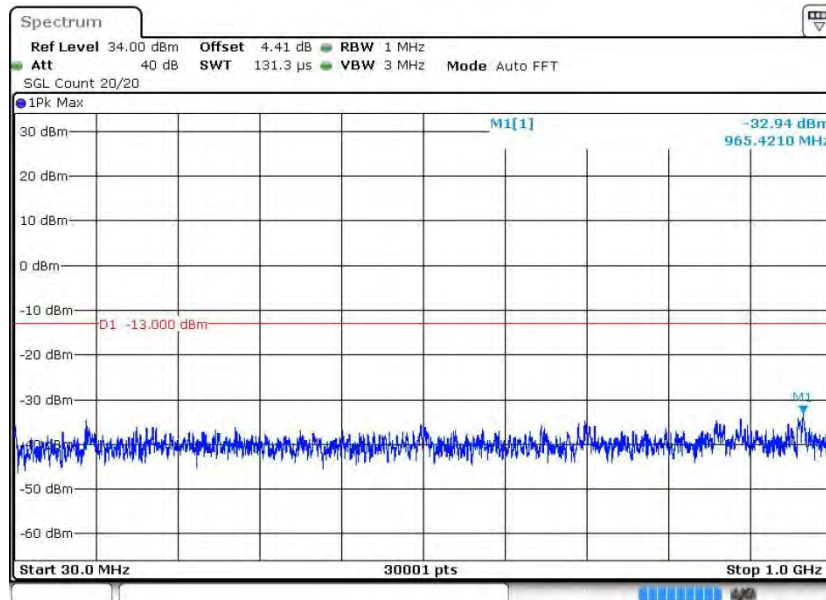
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GSM1900-661-30~1000MHz



Date: 18.JAN.2024 11:33:50



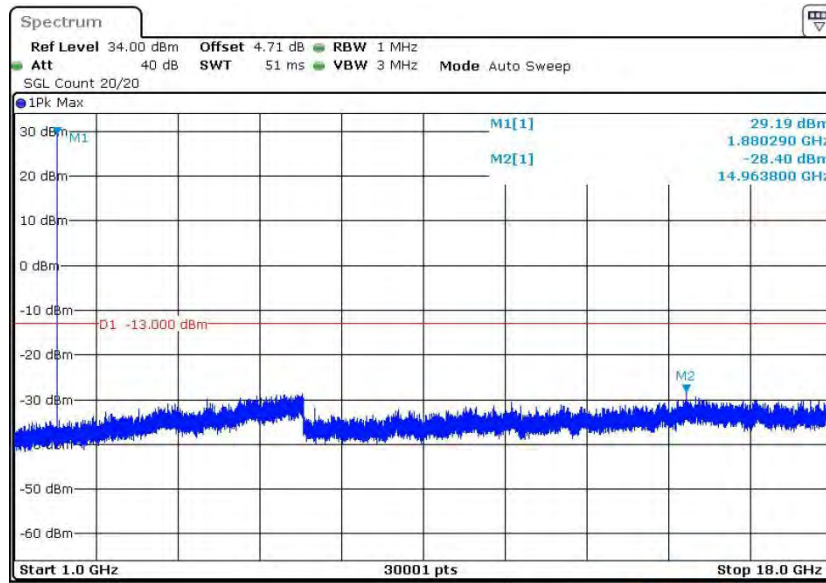
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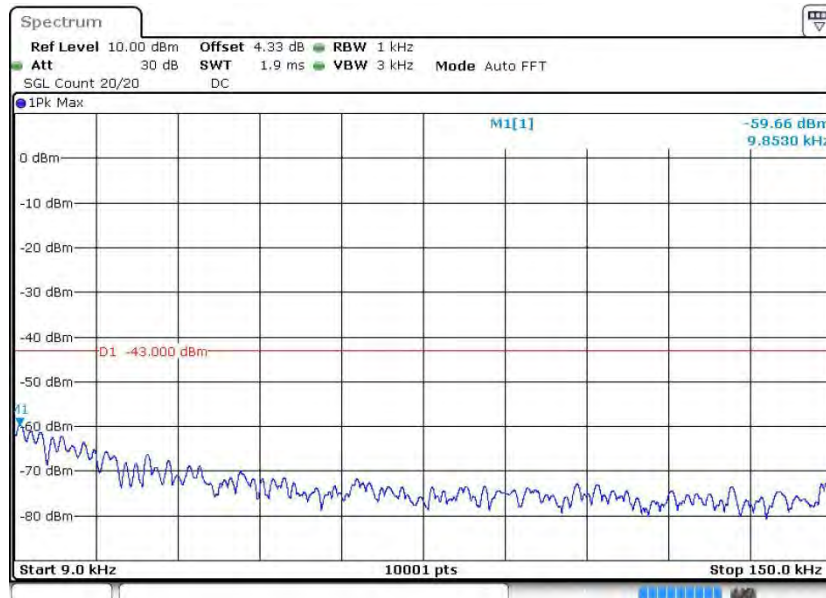
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GSM1900-661-1000~18000MHz



Date: 18 JAN 2024 11:33:57

GSM1900-810-0.009~0.15MHz



Date: 18 JAN 2024 11:34:00



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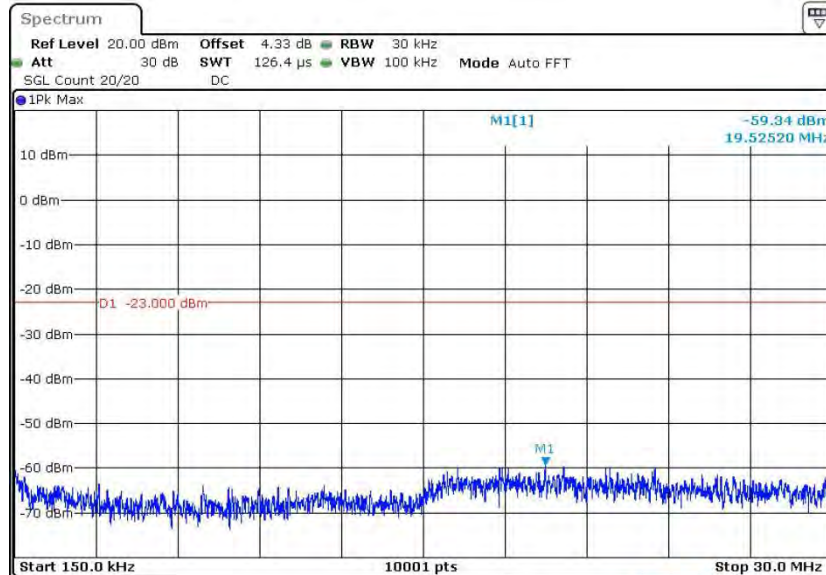
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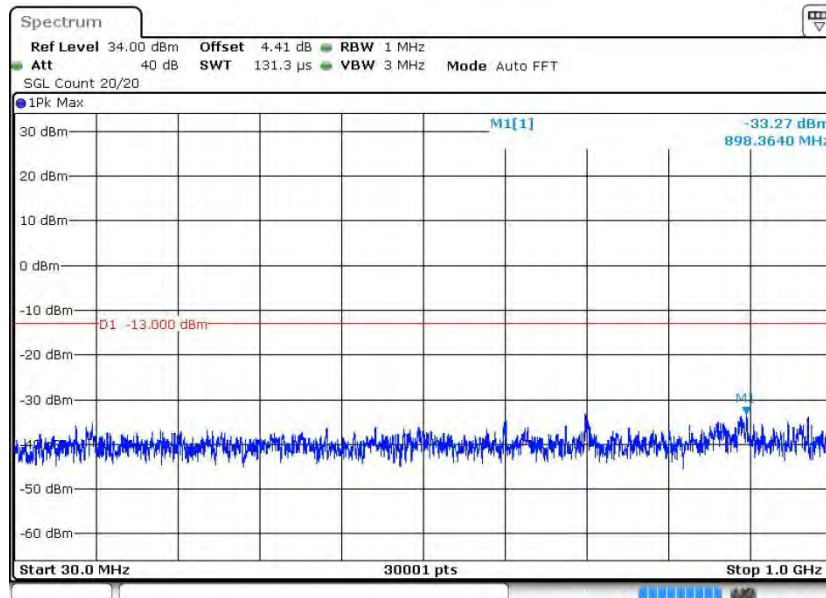
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GSM1900-810-0.15~30MHz



Date: 18.JAN.2024 11:34:02

GSM1900-810-30~1000MHz



Date: 18.JAN.2024 11:34:07



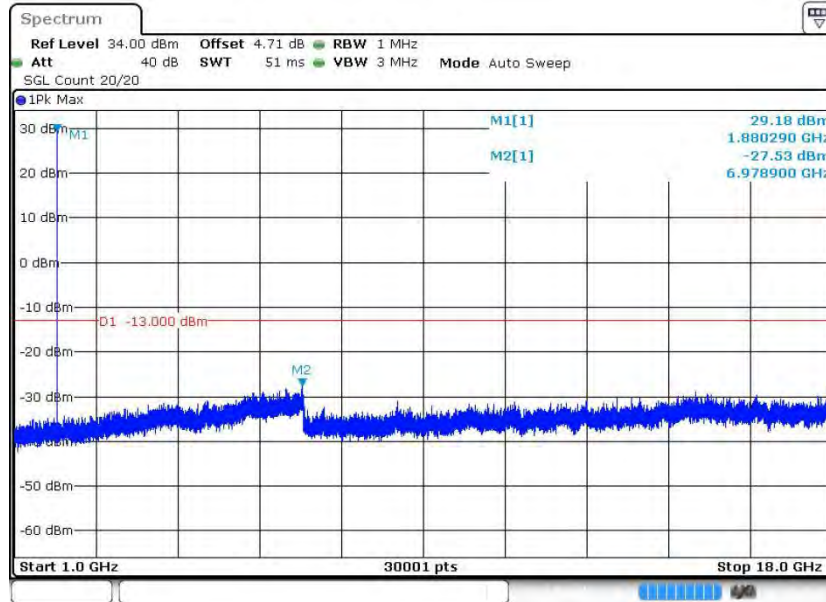
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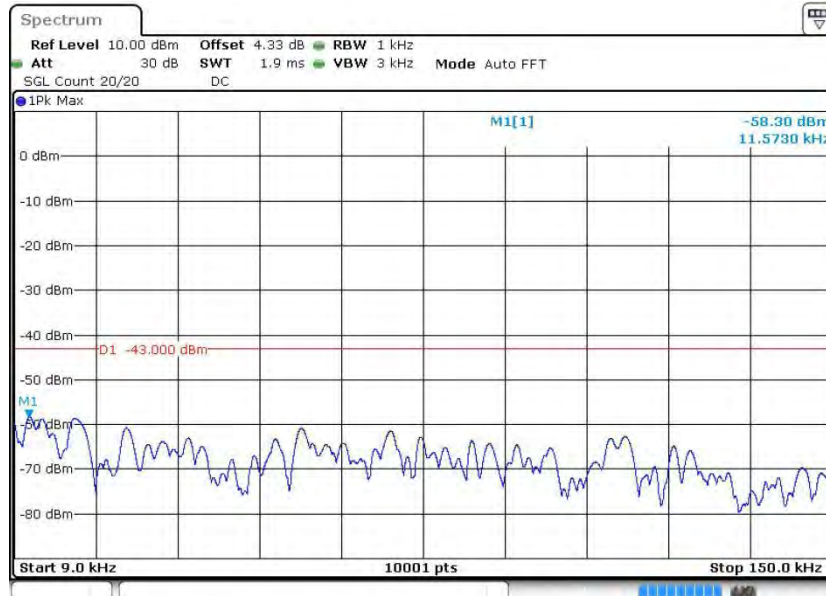
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GSM1900-810-1000~18000MHz



Date: 18 JAN 2024 11:34:14

EGPRS1900-512-0.009~0.15MHz



Date: 18 JAN 2024 11:35:00



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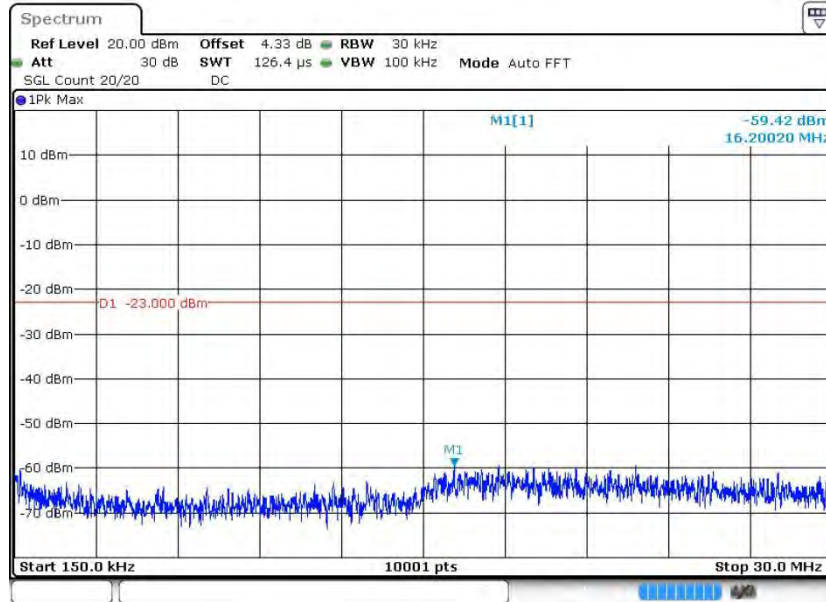
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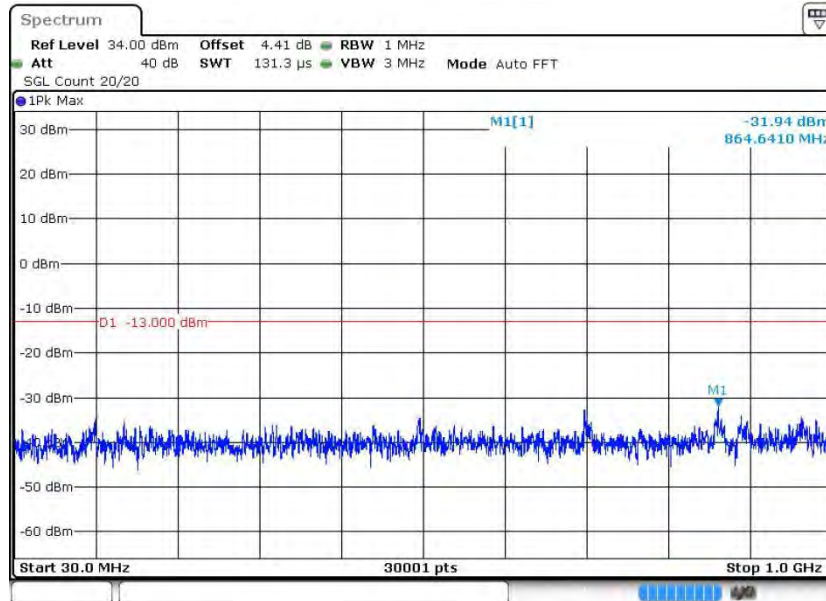
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EGPRS1900-512-0.15~30MHz



Date: 18 JAN 2024 11:35:03

EGPRS1900-512-30~1000MHz



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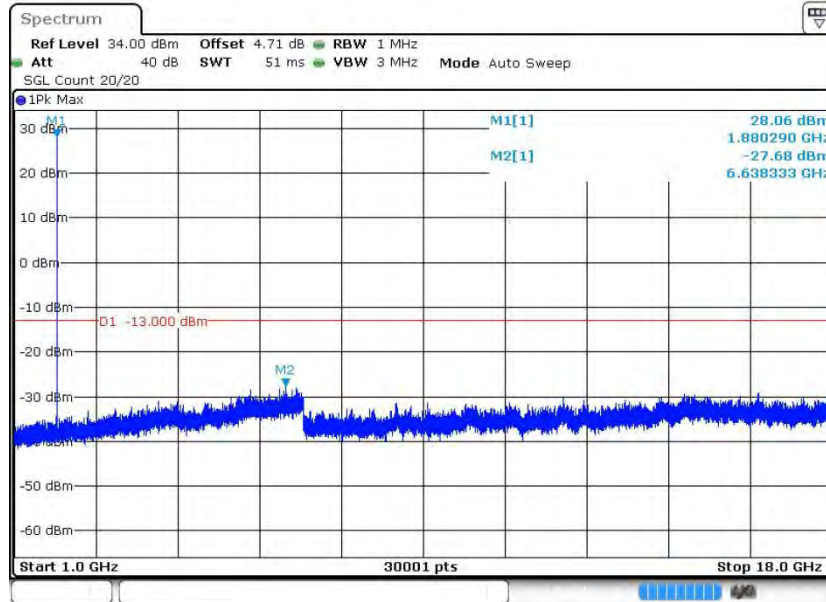
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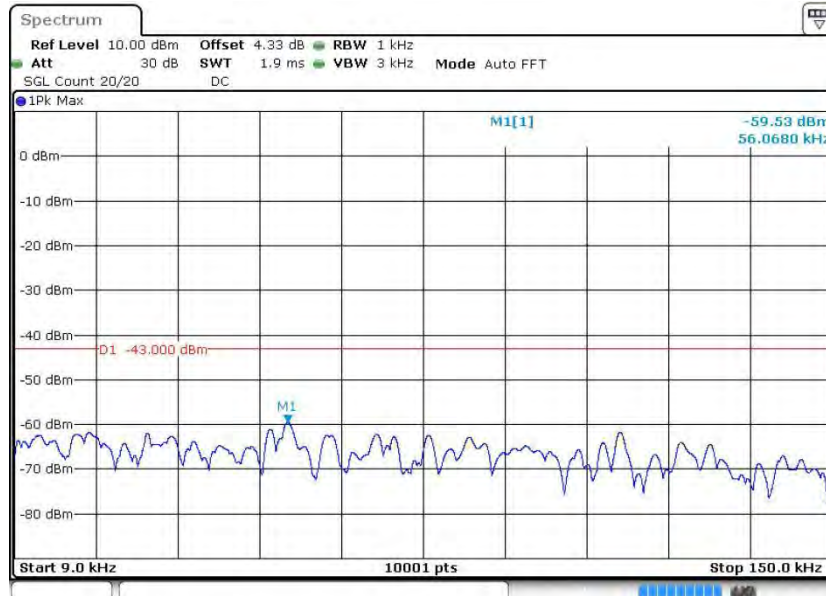
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EGPRS1900-512-1000~18000MHz



Date: 18.JAN.2024 11:35:14

EGPRS1900-661-0.009~0.15MHz



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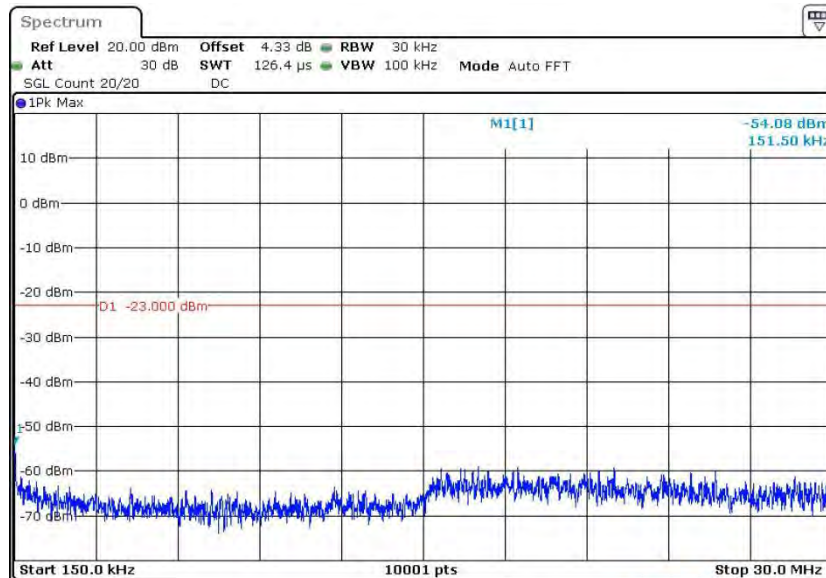
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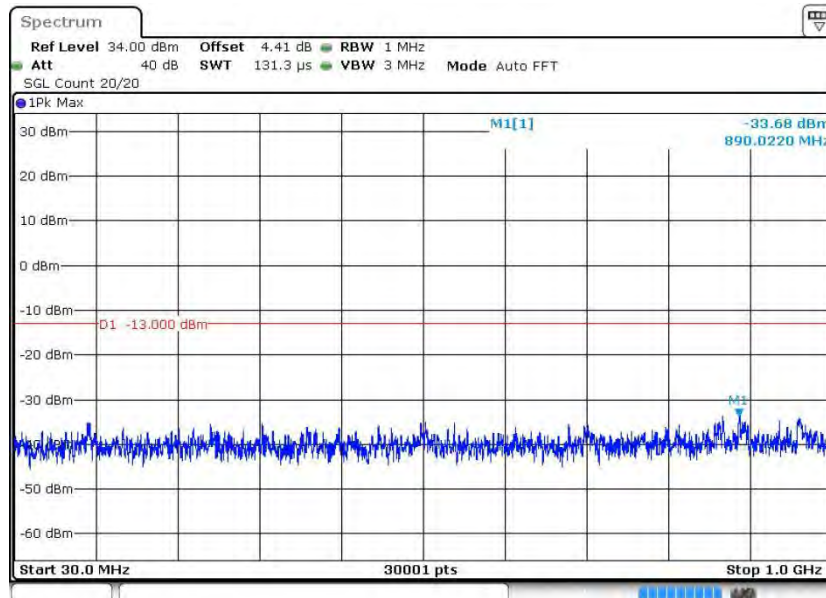
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EGPRS1900-661-0.15~30MHz



Date: 18.JAN.2024 11:35:31

EGPRS1900-661-30~1000MHz



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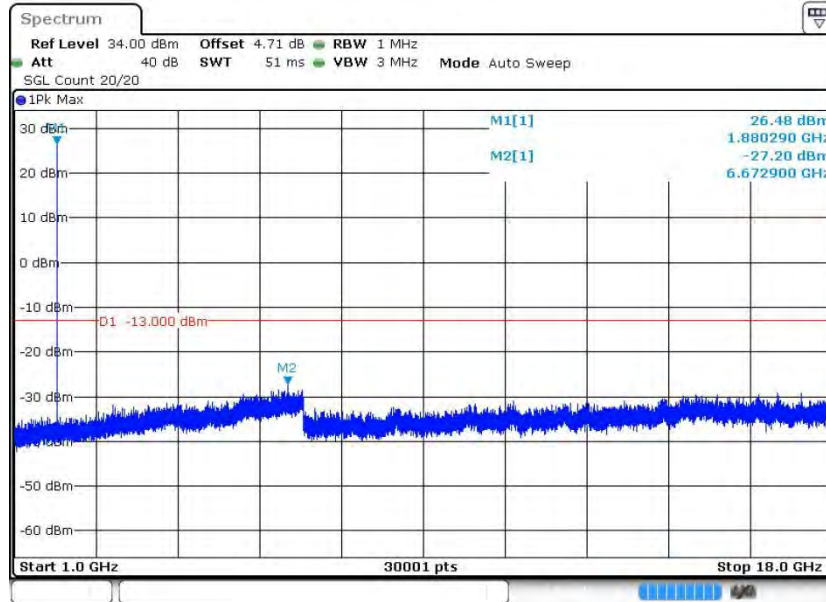
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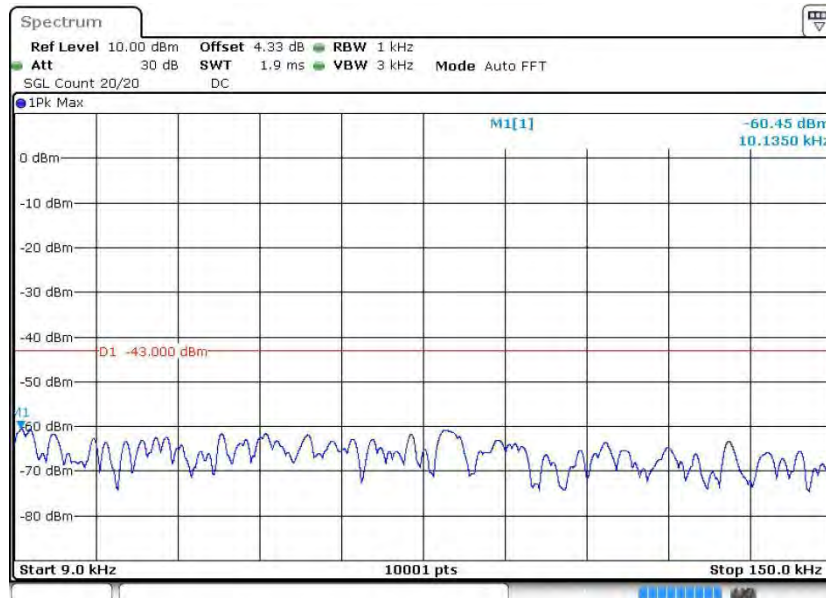
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EGPRS1900-661-1000~18000MHz



Date: 18.JAN.2024 11:35:43

EGPRS1900-810-0.009~0.15MHz



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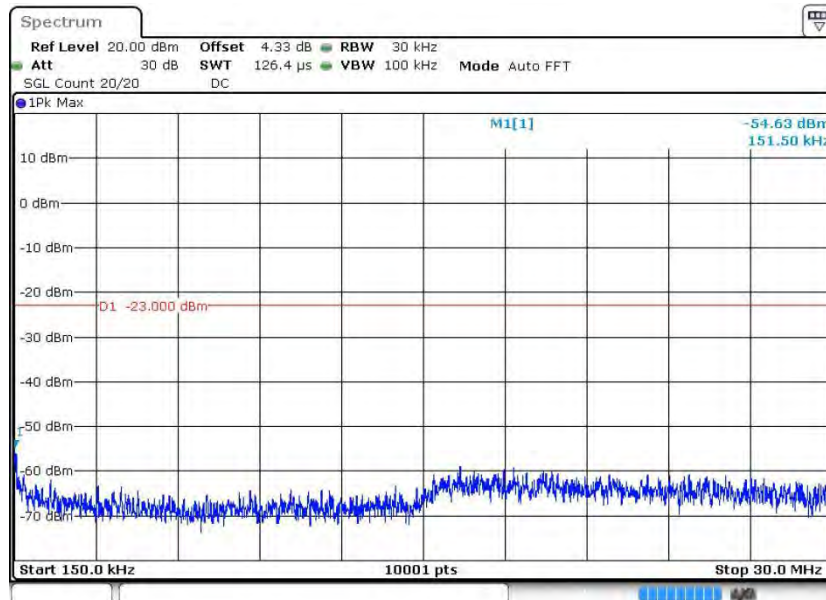
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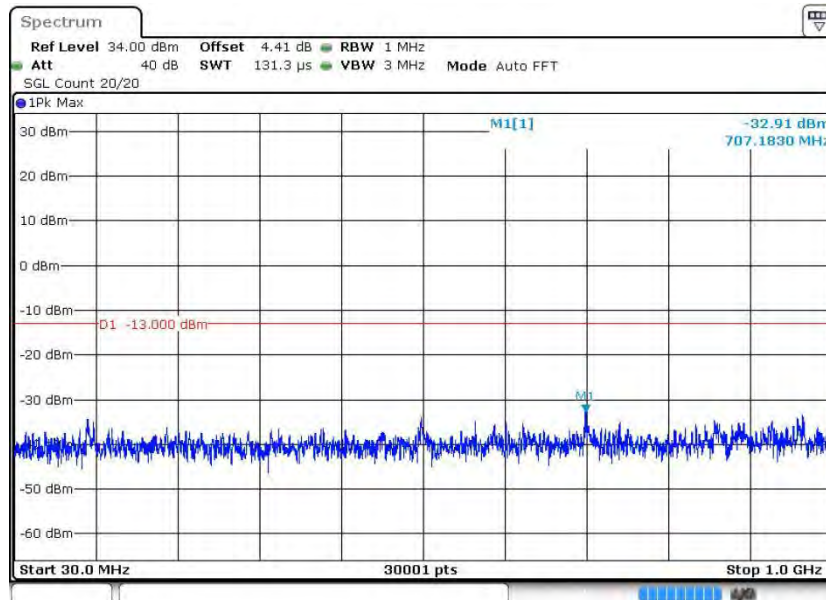
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EGPRS1900-810-0.15~30MHz



Date: 18.JAN.2024 11:35:59

EGPRS1900-810-30~1000MHz



Date: 18.JAN.2024 11:36:04

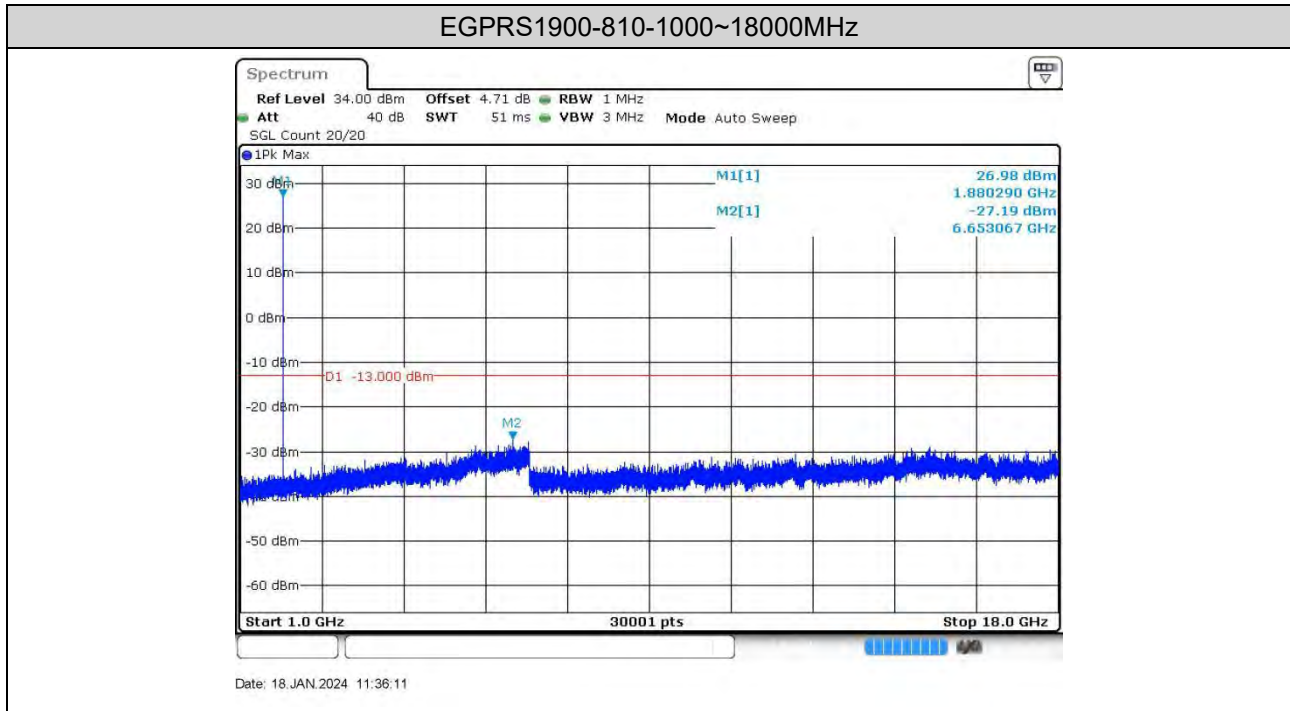


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Field Strength of Spurious Radiation

Test Band = GSM850_TM1

Test Channel = low channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.0125	82.75	24.90	-48.85	-36.46	-13.00	23.46	Horizontal
2	2472.275	78.65	27.33	-47.89	-37.17	-13.00	24.17	Horizontal
3	3296.5375	54.28	28.66	-47.16	-59.48	-13.00	46.48	Horizontal
4	4120.8	63.35	29.67	-47.51	-49.75	-13.00	36.75	Horizontal
5	4945.0625	62.58	31.27	-46.98	-48.39	-13.00	35.39	Horizontal
6	5769.325	55.68	32.49	-46.96	-54.05	-13.00	41.05	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.0125	80.03	24.90	-48.85	-39.18	-13.00	26.18	Vertical
2	2472.275	82.38	27.33	-47.89	-33.44	-13.00	20.44	Vertical
3	3296.5375	55.73	28.66	-47.16	-58.03	-13.00	45.03	Vertical
4	4121.3875	64.76	29.67	-47.51	-48.34	-13.00	35.34	Vertical
5	4945.65	61.96	31.27	-46.98	-49.01	-13.00	36.01	Vertical
6	5768.7375	56.08	32.49	-46.96	-53.65	-13.00	40.65	Vertical



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Test Band = GSM850_ TM1
Test Channel = mid channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.6875	84.62	24.95	-48.81	-34.50	-13.00	21.50	Horizontal
2	2509.875	76.03	27.42	-47.79	-39.60	-13.00	26.60	Horizontal
3	3345.8875	54.66	28.67	-47.25	-59.18	-13.00	46.18	Horizontal
4	4183.6625	60.12	29.76	-47.20	-52.58	-13.00	39.58	Horizontal
5	5019.675	66.50	31.45	-46.97	-44.28	-13.00	31.28	Horizontal
6	5856.275	49.37	32.46	-46.53	-59.96	-13.00	46.96	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.6875	79.56	24.95	-48.81	-39.56	-13.00	26.56	Vertical
2	2509.2875	82.49	27.42	-47.79	-33.14	-13.00	20.14	Vertical
3	3346.475	62.80	28.67	-47.25	-51.04	-13.00	38.04	Vertical
4	4182.4875	65.93	29.76	-47.21	-46.78	-13.00	33.78	Vertical
5	5019.0875	59.83	31.45	-46.97	-50.95	-13.00	37.95	Vertical
6	5856.8625	55.69	32.46	-46.53	-53.64	-13.00	40.64	Vertical



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Test Band = GSM850_ TM1
Test Channel = high channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.3625	71.29	24.99	-48.77	-47.75	-13.00	34.75	Horizontal
2	2546.3	71.28	27.51	-47.90	-44.37	-13.00	31.37	Horizontal
3	3395.2375	57.91	28.68	-47.35	-56.02	-13.00	43.02	Horizontal
4	4244.175	56.02	29.84	-47.10	-56.50	-13.00	43.50	Horizontal
5	5093.1125	57.61	31.62	-47.07	-53.10	-13.00	40.10	Horizontal
6	5941.4625	50.35	32.42	-46.50	-58.99	-13.00	45.99	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.3625	75.07	24.99	-48.77	-43.97	-13.00	30.97	Vertical
2	2546.3	75.95	27.51	-47.90	-39.70	-13.00	26.70	Vertical
3	3394.65	55.10	28.68	-47.35	-58.83	-13.00	45.83	Vertical
4	4243.5875	72.10	29.84	-47.10	-40.42	-13.00	27.42	Vertical
5	5092.525	62.20	31.62	-47.07	-48.51	-13.00	35.51	Vertical
6	5941.4625	51.62	32.42	-46.50	-57.72	-13.00	44.72	Vertical



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Test Band = GSM1900_ TM1
Test Channel = low channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.228	62.25	29.02	-47.48	-51.47	-13.00	38.47	Horizontal
2	5550.702	62.99	32.58	-47.05	-46.74	-13.00	33.74	Horizontal
3	7400.576	57.98	36.28	-45.07	-46.07	-13.00	33.07	Horizontal
4	9251.05	51.22	36.68	-42.40	-49.76	-13.00	36.76	Horizontal
5	11101.5241	49.20	39.62	-39.39	-45.83	-13.00	32.83	Horizontal
6	14801.8721	44.34	41.58	-37.00	-46.34	-13.00	33.34	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.228	65.05	29.02	-47.48	-48.67	-13.00	35.67	Vertical
2	5550.702	67.99	32.58	-47.05	-41.74	-13.00	28.74	Vertical
3	7400.576	59.00	36.28	-45.07	-45.05	-13.00	32.05	Vertical
4	9251.05	47.46	36.68	-42.40	-53.52	-13.00	40.52	Vertical
5	11101.5241	42.12	39.62	-39.39	-52.91	-13.00	39.91	Vertical
6	14801.8721	45.08	41.58	-37.00	-45.60	-13.00	32.60	Vertical



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Test Band = GSM1900_ TM1
Test Channel = mid channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759.6304	59.45	29.12	-47.32	-54.01	-13.00	41.01	Horizontal
2	5640.1056	65.23	32.54	-46.87	-44.36	-13.00	31.36	Horizontal
3	7519.9808	59.20	36.39	-45.00	-44.67	-13.00	31.67	Horizontal
4	9399.856	52.62	37.02	-41.56	-47.18	-13.00	34.18	Horizontal
5	11280.3312	41.65	39.66	-39.28	-53.23	-13.00	40.23	Horizontal
6	15040.0816	46.29	41.46	-37.51	-45.02	-13.00	32.02	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759.6304	65.11	29.12	-47.32	-48.35	-13.00	35.35	Vertical
2	5640.1056	65.46	32.54	-46.87	-44.13	-13.00	31.13	Vertical
3	7519.9808	52.90	36.39	-45.00	-50.97	-13.00	37.97	Vertical
4	9399.856	48.66	37.02	-41.56	-51.14	-13.00	38.14	Vertical
5	11280.3312	46.86	39.66	-39.28	-48.02	-13.00	35.02	Vertical
6	15039.4816	44.40	41.47	-37.51	-46.90	-13.00	33.90	Vertical



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Test Band = GSM1900_ TM1
Test Channel = high channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6328	64.95	29.21	-47.19	-48.29	-13.00	35.29	Horizontal
2	5729.5092	67.46	32.51	-46.79	-42.08	-13.00	29.08	Horizontal
3	7638.7856	55.37	36.34	-44.40	-47.95	-13.00	34.95	Horizontal
4	9549.262	49.30	37.36	-41.98	-50.58	-13.00	37.58	Horizontal
5	11437.5375	37.63	39.69	-38.81	-56.75	-13.00	43.75	Horizontal
6	15278.8912	41.78	40.65	-36.49	-49.32	-13.00	36.32	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.0328	72.66	29.21	-47.19	-40.58	-13.00	27.58	Vertical
2	5729.5092	66.91	32.51	-46.79	-42.63	-13.00	29.63	Vertical
3	7639.3856	60.22	36.34	-44.39	-43.09	-13.00	30.09	Vertical
4	9548.6619	48.90	37.36	-41.98	-50.98	-13.00	37.98	Vertical
5	11459.1384	40.73	39.69	-38.89	-53.73	-13.00	40.73	Vertical
6	15278.2911	45.12	40.65	-36.49	-45.98	-13.00	32.98	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	5.33	0.006371	±2.5	PASS
GSM850	190	VN	NT	5.94	0.007100	±2.5	PASS
GSM850	190	VH	NT	9.07	0.010842	±2.5	PASS
EGPRS850	190	VL	NT	3.10	0.003705	±2.5	PASS
EGPRS850	190	VN	NT	4.71	0.005630	±2.5	PASS
EGPRS850	190	VH	NT	-0.84	-0.001004	±2.5	PASS

Voltage						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	23.02	0.012245	PASS
GSM1900	661	VN	NT	18.76	0.009979	PASS
GSM1900	661	VH	NT	23.02	0.012245	PASS
EGPRS1900	661	VL	NT	18.82	0.010011	PASS
EGPRS1900	661	VN	NT	15.72	0.008362	PASS
EGPRS1900	661	VH	NT	22.41	0.011920	PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	4.94	0.005905	±2.5	PASS
GSM850	190	NV	-20	7.01	0.008379	±2.5	PASS
GSM850	190	NV	-10	4.81	0.005749	±2.5	PASS
GSM850	190	NV	0	4.94	0.005905	±2.5	PASS
GSM850	190	NV	10	7.65	0.009144	±2.5	PASS
GSM850	190	NV	20	3.62	0.004327	±2.5	PASS
GSM850	190	NV	30	3.10	0.003705	±2.5	PASS
GSM850	190	NV	40	2.39	0.002857	±2.5	PASS
GSM850	190	NV	50	6.68	0.007985	±2.5	PASS
EGPRS850	190	NV	-30	5.71	0.006825	±2.5	PASS
EGPRS850	190	NV	-20	2.52	0.003012	±2.5	PASS
EGPRS850	190	NV	-10	4.58	0.005475	±2.5	PASS
EGPRS850	190	NV	0	2.71	0.003239	±2.5	PASS
EGPRS850	190	NV	10	2.97	0.003550	±2.5	PASS
EGPRS850	190	NV	20	3.68	0.004399	±2.5	PASS
EGPRS850	190	NV	30	3.91	0.004674	±2.5	PASS
EGPRS850	190	NV	40	0.48	0.000574	±2.5	PASS
EGPRS850	190	NV	50	0.90	0.001076	±2.5	PASS



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Temperature						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	19.95	0.010612	PASS
GSM1900	661	NV	-20	19.53	0.010388	PASS
GSM1900	661	NV	-10	19.24	0.010234	PASS
GSM1900	661	NV	0	24.28	0.012915	PASS
GSM1900	661	NV	10	21.50	0.011436	PASS
GSM1900	661	NV	20	18.24	0.009702	PASS
GSM1900	661	NV	30	22.89	0.012176	PASS
GSM1900	661	NV	40	14.75	0.007846	PASS
GSM1900	661	NV	50	16.82	0.008947	PASS
EGPRS1900	661	NV	-30	11.72	0.006234	PASS
EGPRS1900	661	NV	-20	19.31	0.010271	PASS
EGPRS1900	661	NV	-10	9.59	0.005101	PASS
EGPRS1900	661	NV	0	17.37	0.009239	PASS
EGPRS1900	661	NV	10	20.63	0.010973	PASS
EGPRS1900	661	NV	20	13.40	0.007128	PASS
EGPRS1900	661	NV	30	14.56	0.007745	PASS
EGPRS1900	661	NV	40	24.54	0.013053	PASS
EGPRS1900	661	NV	50	24.60	0.013085	PASS

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