

Appendix



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	33.43	29.28	38.5	PASS
GSM850	190	32.37	28.22	38.5	PASS
GSM850	251	32.48	28.33	38.5	PASS
Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	30.47	31.97	33	PASS
GSM1900	661	30.47	31.97	33	PASS
GSM1900	810	30.934	31.84	33	PASS



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Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	27.8	23.65	38.5	PASS
EGPRS850	128	2	25.43	21.28	38.5	PASS
EGPRS850	128	3	23.5	19.35	38.5	PASS
EGPRS850	128	4	22.45	18.3	38.5	PASS
EGPRS850	190	1	27.8	23.65	38.5	PASS
EGPRS850	190	2	25.55	21.4	38.5	PASS
EGPRS850	190	3	23.59	19.44	38.5	PASS
EGPRS850	190	4	22.61	18.46	38.5	PASS
EGPRS850	251	1	27.84	23.69	38.5	PASS
EGPRS850	251	2	25.5	21.35	38.5	PASS
EGPRS850	251	3	23.51	19.36	38.5	PASS
EGPRS850	251	4	22.53	18.38	38.5	PASS
Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	25.97	27.47	33	PASS
EGPRS1900	512	2	23.05	24.55	33	PASS
EGPRS1900	512	3	21.32	22.82	33	PASS
EGPRS1900	512	4	20.98	22.48	33	PASS
EGPRS1900	661	1	25.91	27.41	33	PASS
EGPRS1900	661	2	24.65	26.15	33	PASS
EGPRS1900	661	3	21.04	22.54	33	PASS
EGPRS1900	661	4	21.65	23.15	33	PASS
EGPRS1900	810	1	25.84	27.34	33	PASS
EGPRS1900	810	2	23.07	24.57	33	PASS
EGPRS1900	810	3	22.59	24.09	33	PASS
EGPRS1900	810	4	20.18	21.68	33	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

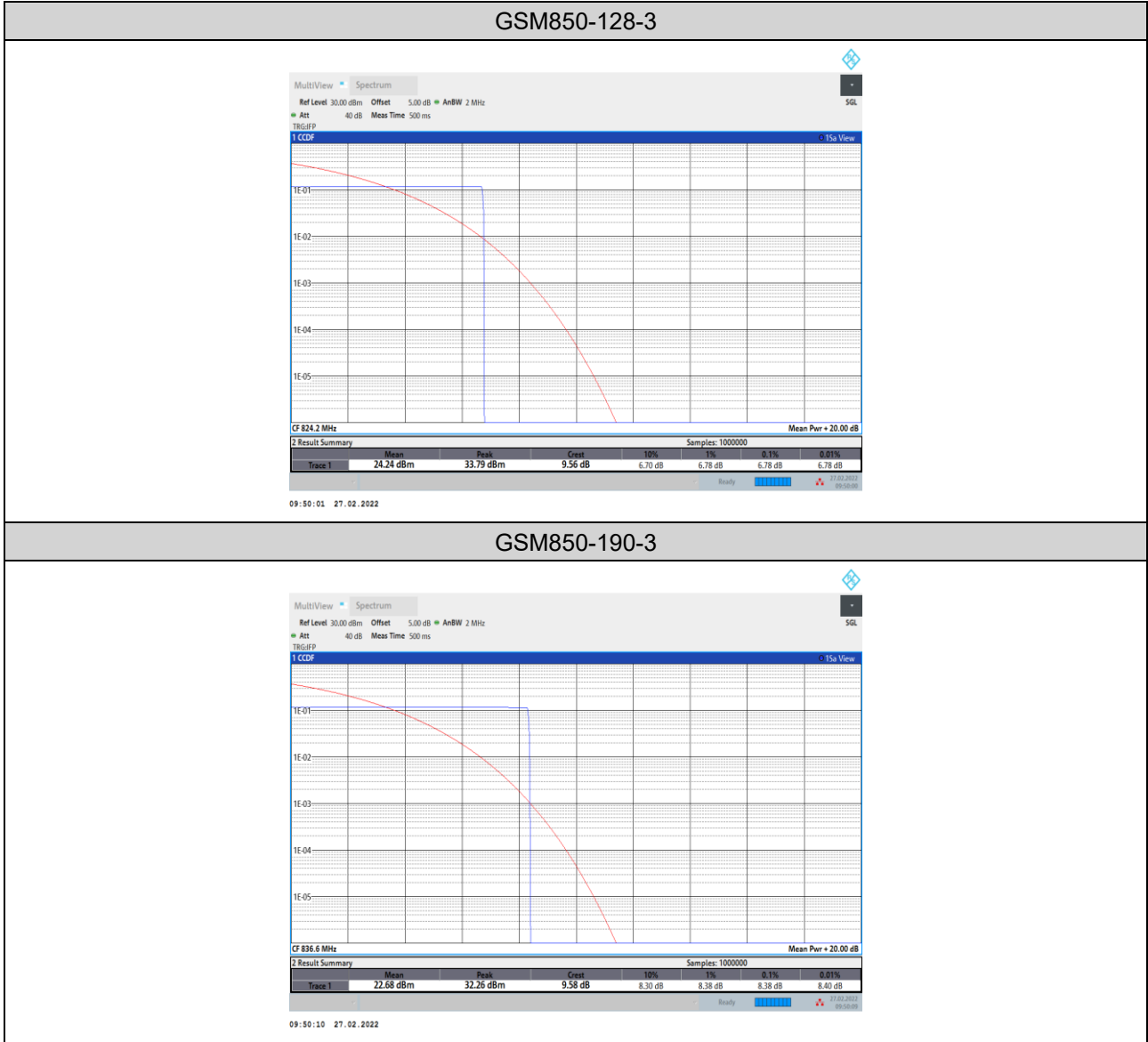
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GSM850	128	6.78	13	PASS
GSM850	190	8.38	13	PASS
GSM850	251	8.30	13	PASS
EGPRS850	128	12.68	13	PASS
EGPRS850	190	12.74	13	PASS
EGPRS850	251	12.76	13	PASS
GSM1900	512	9.78	13	PASS
GSM1900	661	9.78	13	PASS
GSM1900	810	9.80	13	PASS
EGPRS1900	512	12.80	13	PASS
EGPRS1900	661	12.84	13	PASS
EGPRS1900	810	12.86	13	PASS



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Test Graphs



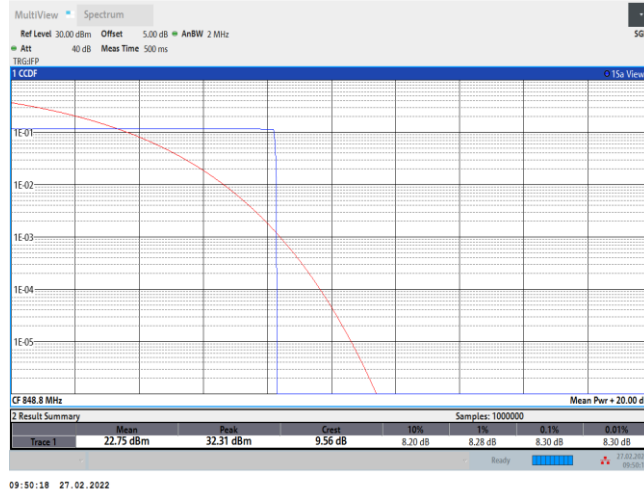
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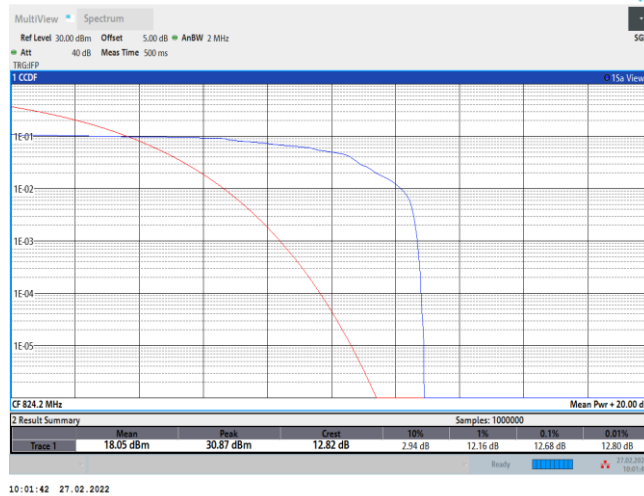
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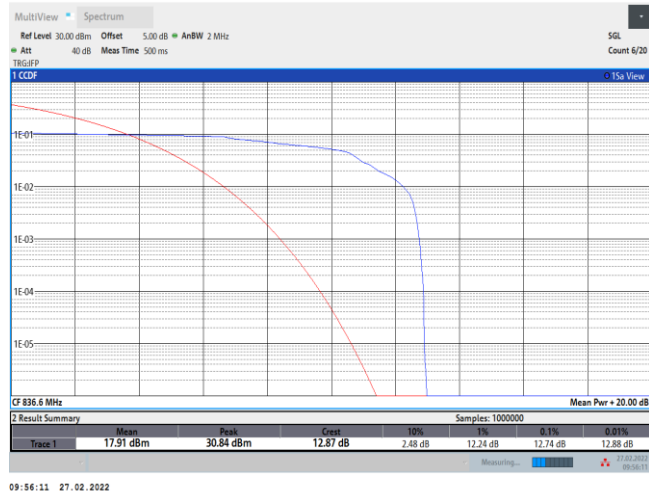
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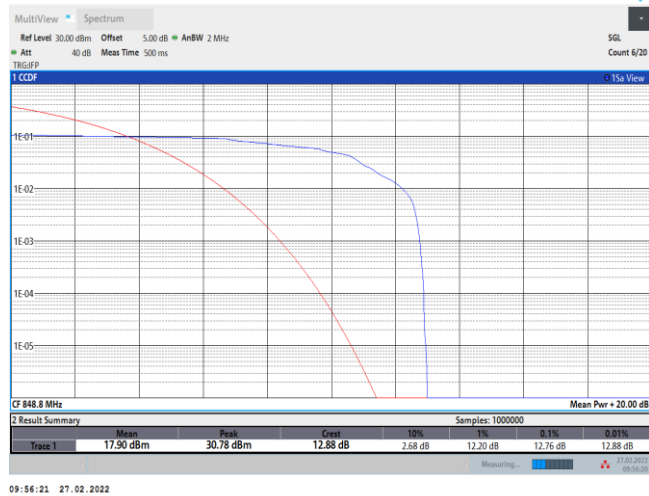
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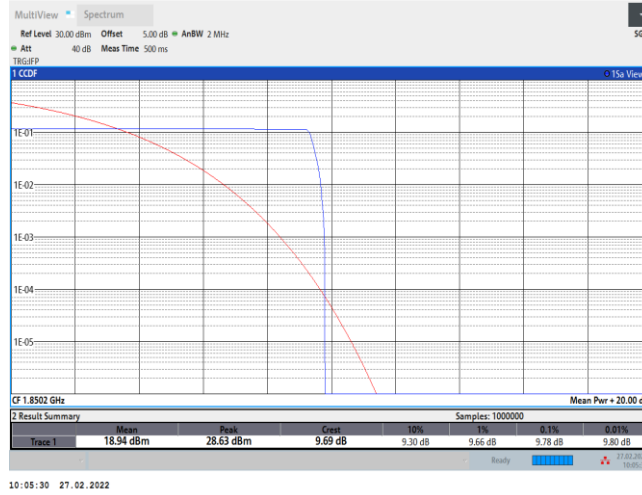
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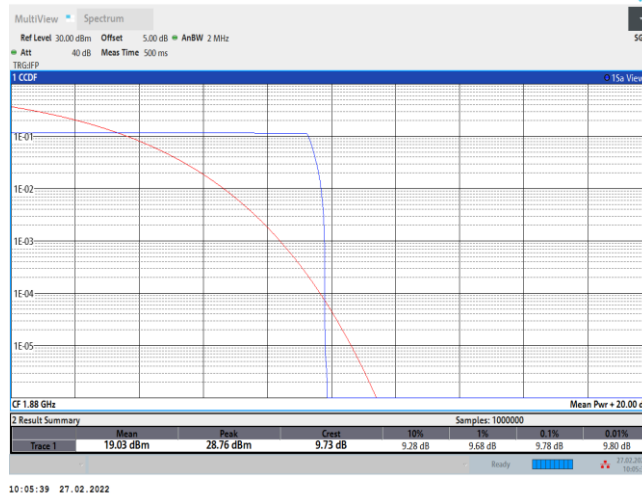
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GSM1900-512-0



GSM1900-661-0



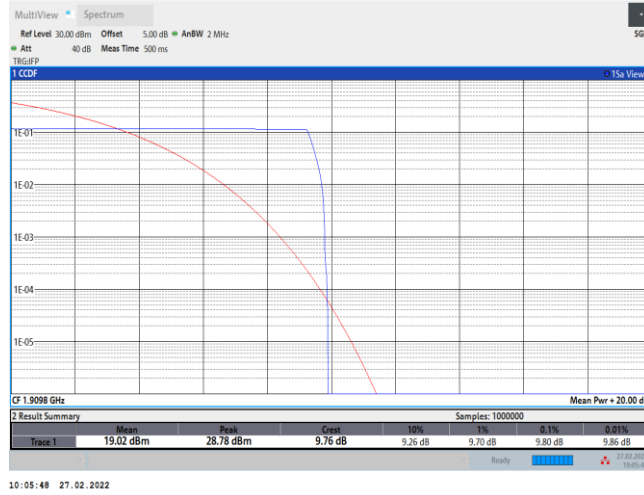
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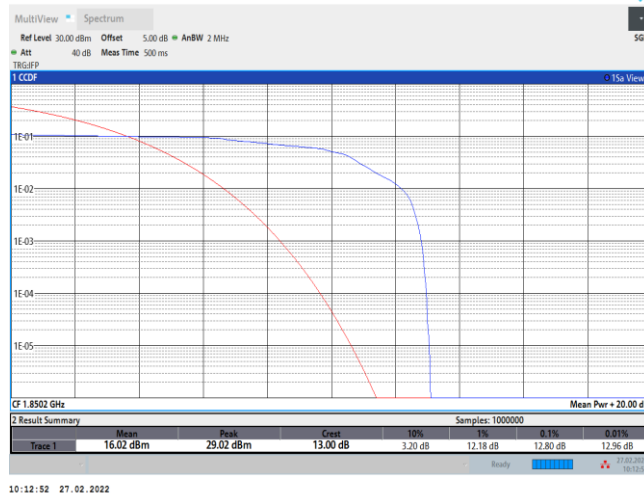
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GSM1900-810-0



EGPRS1900-512-2



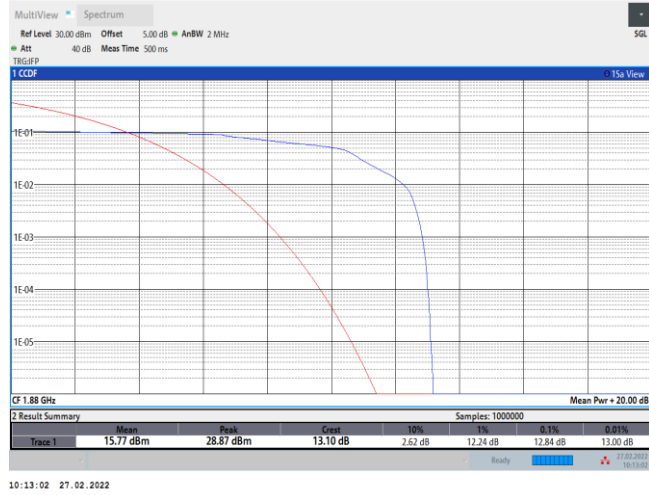
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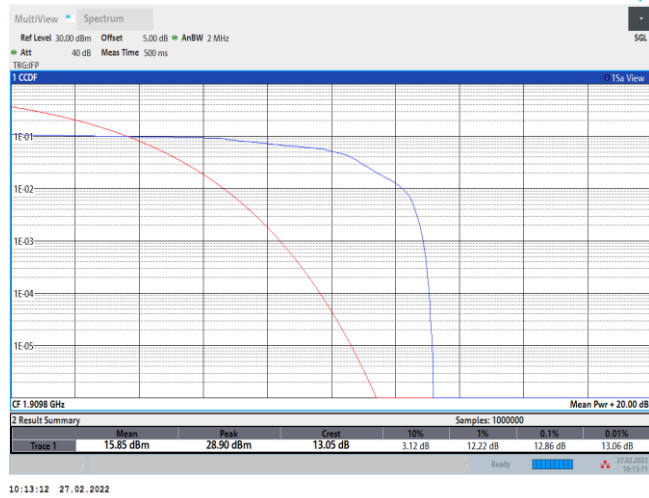
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EGPRS1900-661-2



EGPRS1900-810-2



Modulation Characteristics

Test Result

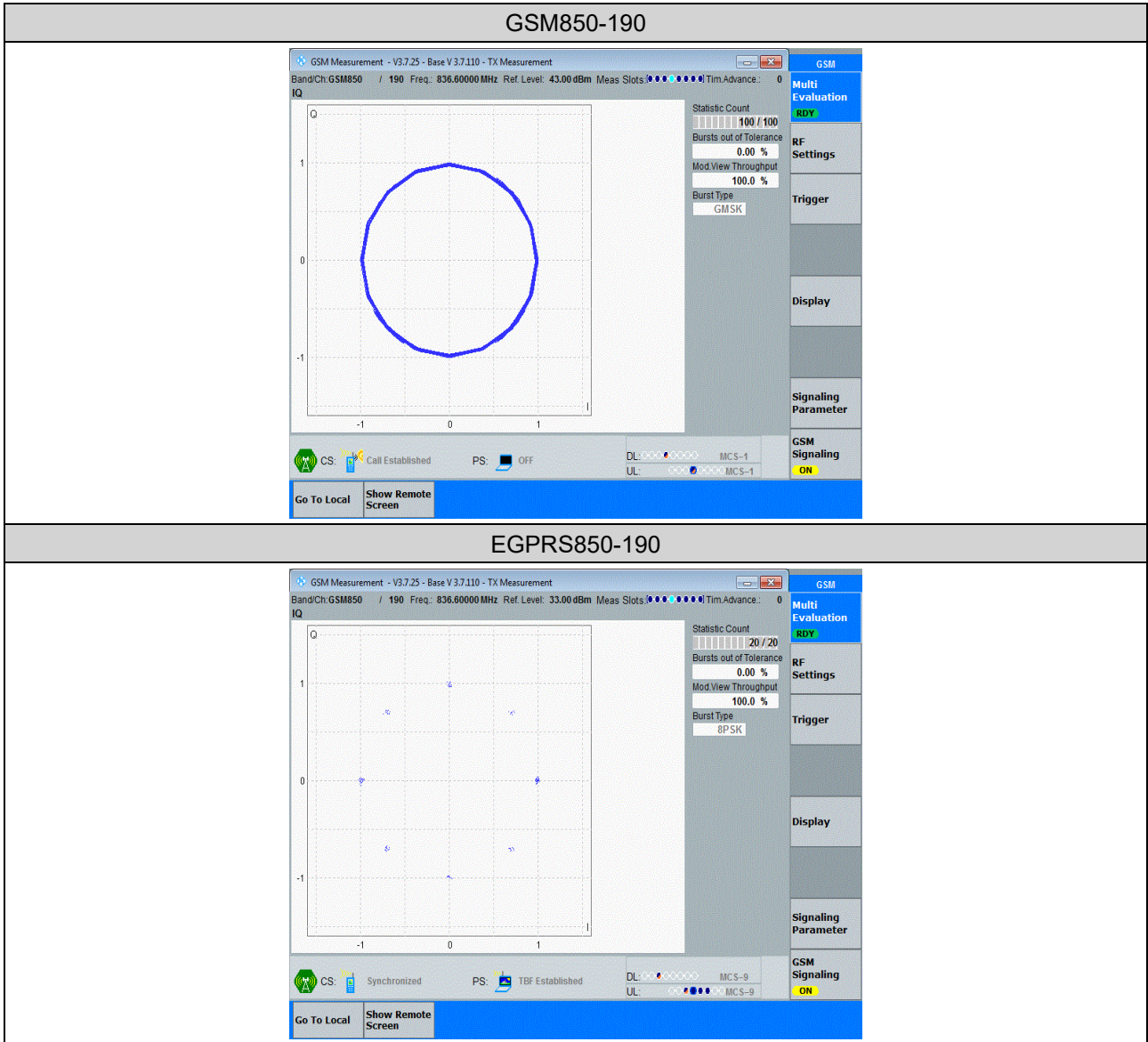
Band	Channel	Result	Verdict
GSM850	190	PASS	PASS
EGPRS850	190	PASS	PASS
GSM1900	661	PASS	PASS
EGPRS1900	661	PASS	PASS



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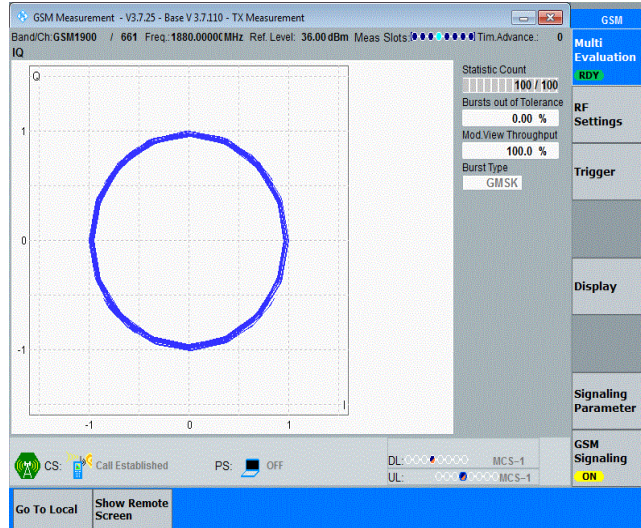
Test Graphs



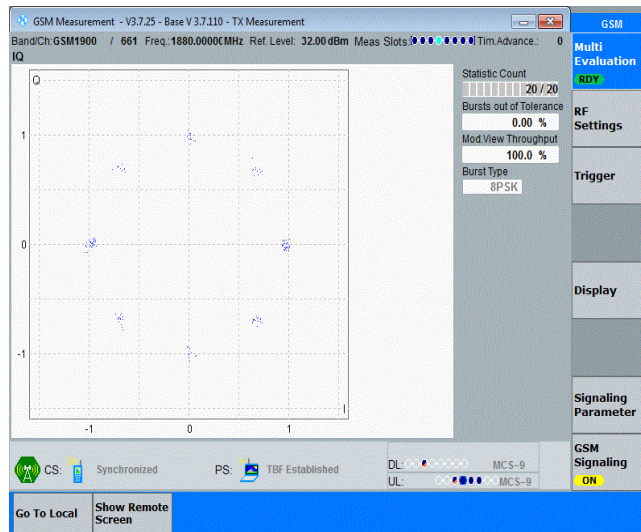
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GSM1900-661



EGPRS1900-661



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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	0.244	0.32	---	PASS
EGPRS850	128	0.245	0.32	---	PASS
EGPRS850	190	0.245	0.31	---	PASS
EGPRS850	251	0.245	0.32	---	PASS
GSM1900	512	0.246	0.32	---	PASS
GSM1900	661	0.246	0.32	---	PASS
GSM1900	810	0.245	0.32	---	PASS
EGPRS1900	512	0.246	0.31	---	PASS
EGPRS1900	661	0.245	0.32	---	PASS
EGPRS1900	810	0.246	0.32	---	PASS



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Test Graphs



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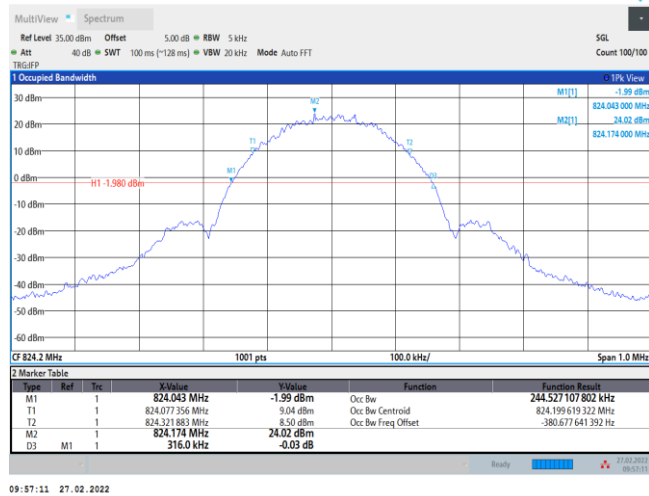
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GSM850-251-3-0.32



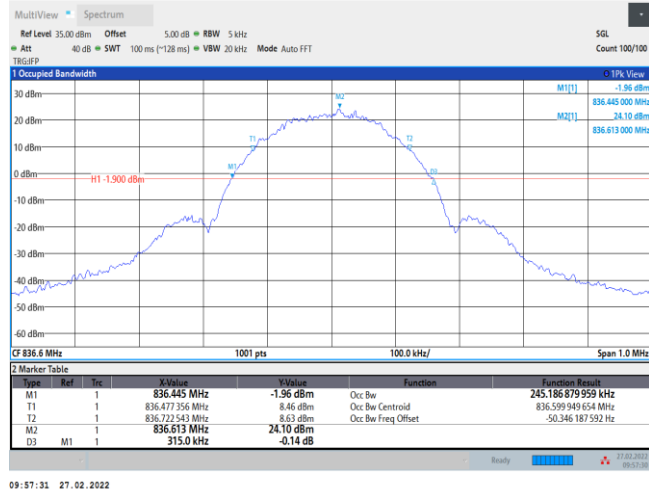
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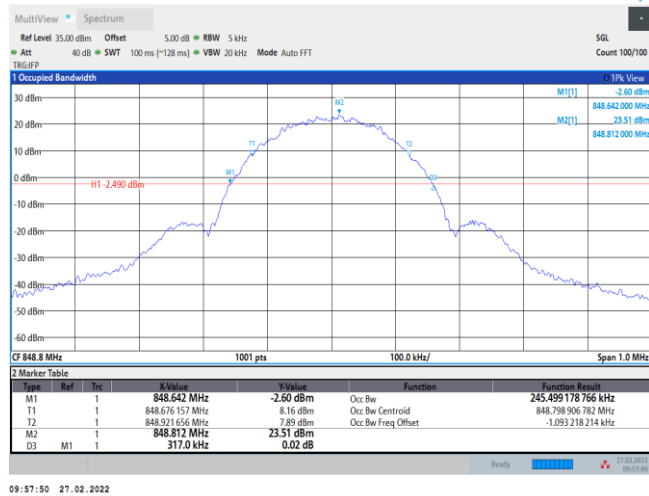
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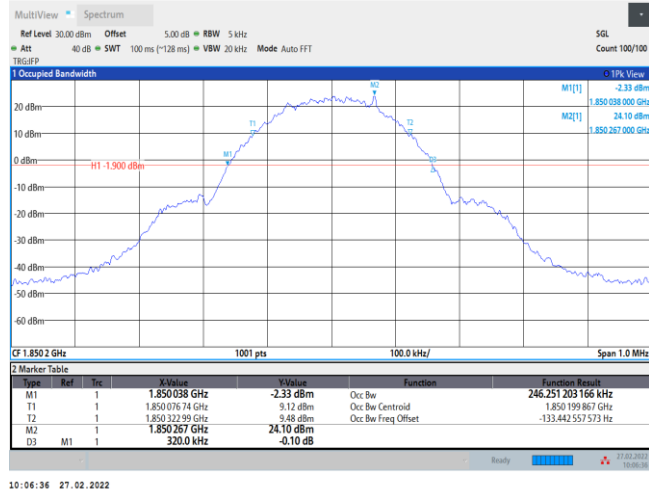
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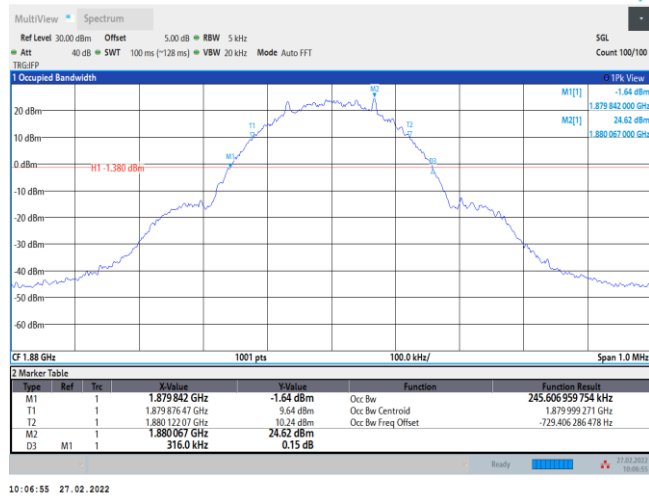
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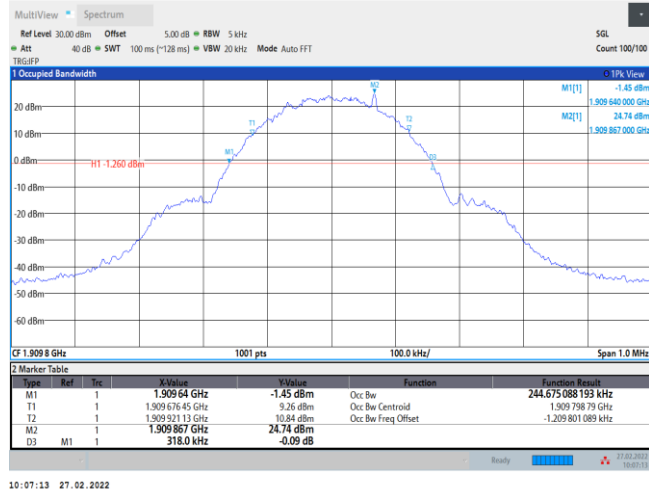
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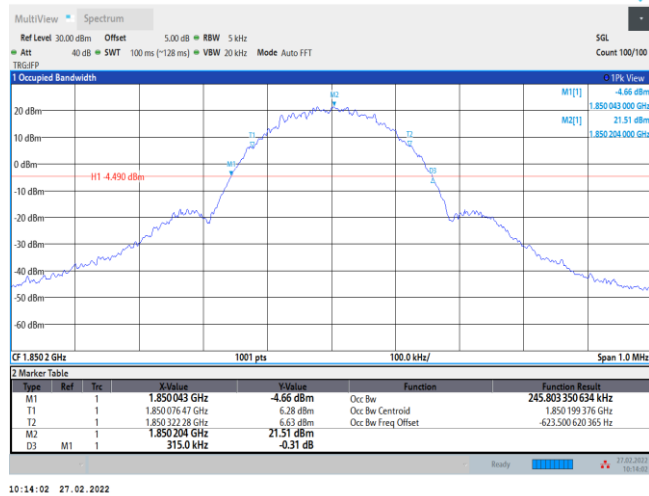
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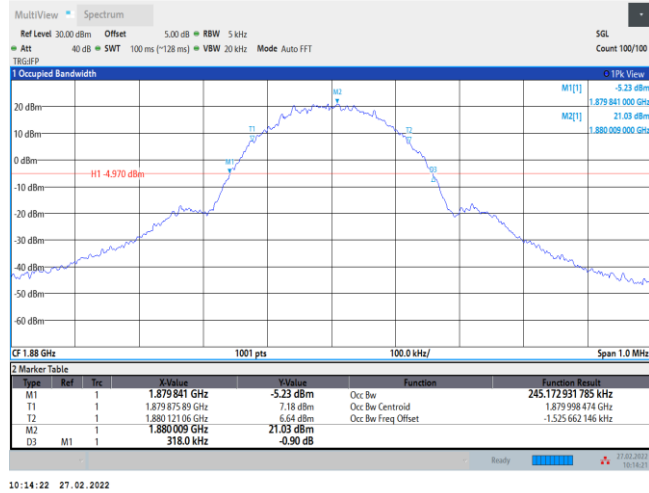


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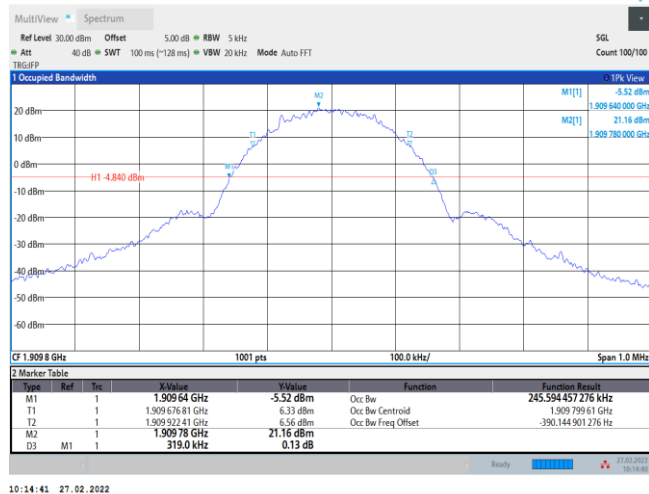
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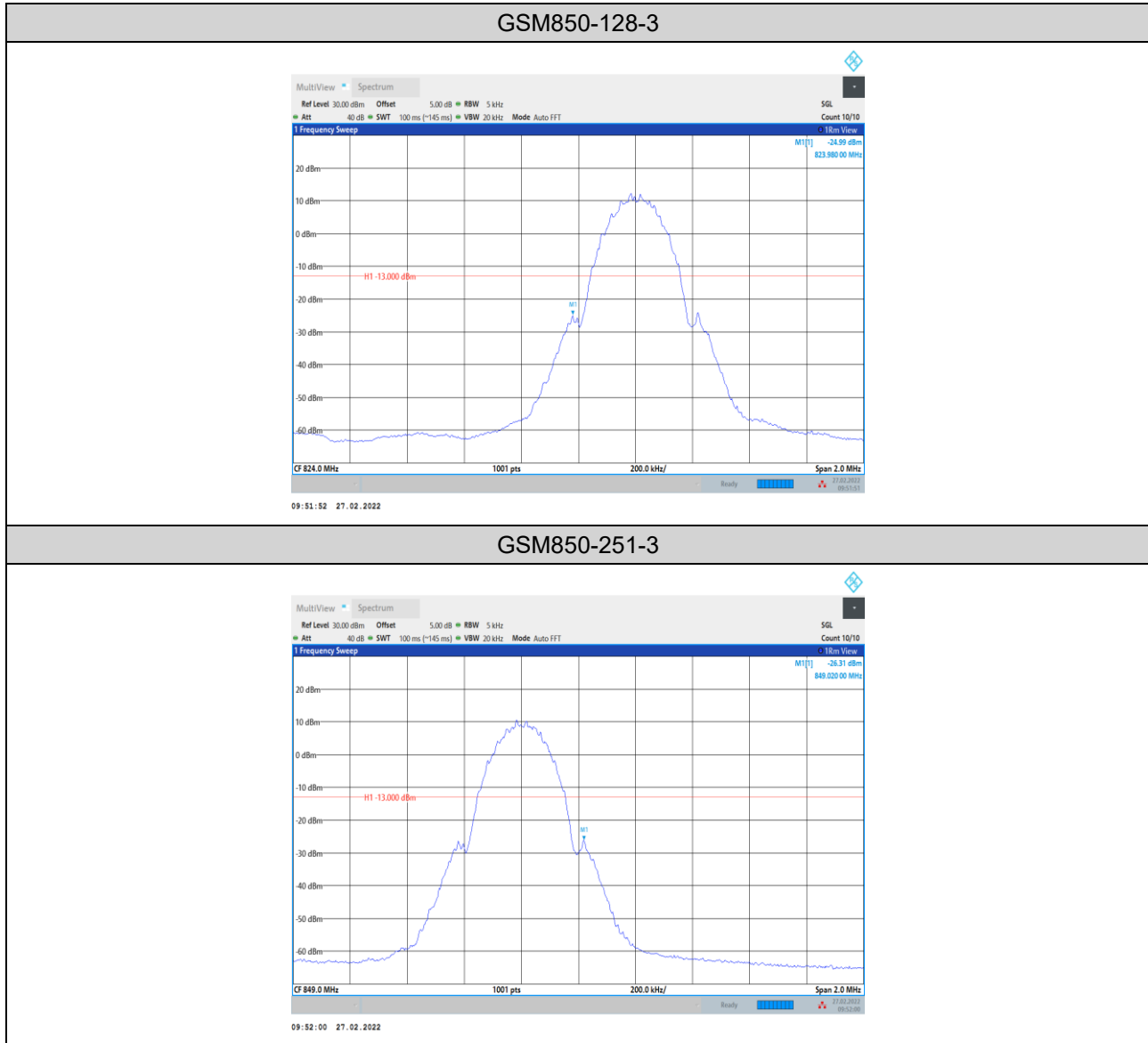
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Band Edge

Test Graphs



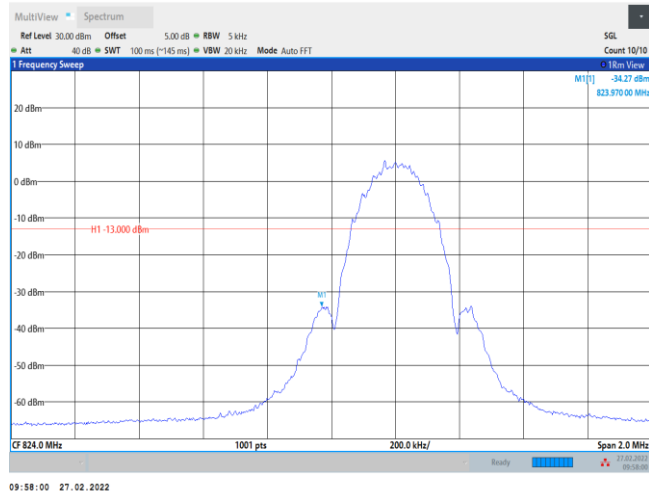
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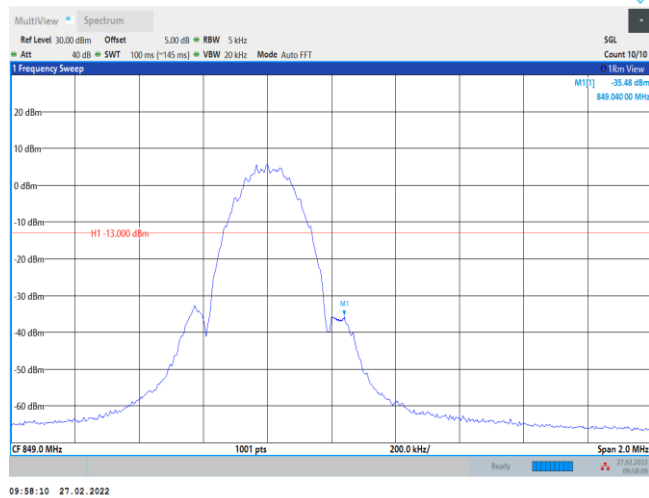
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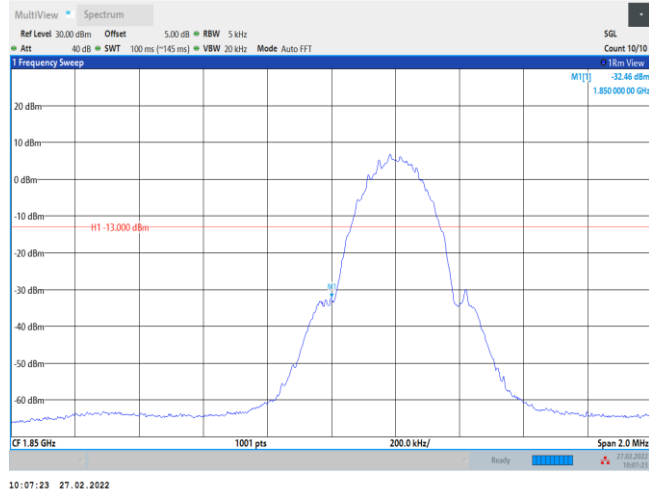


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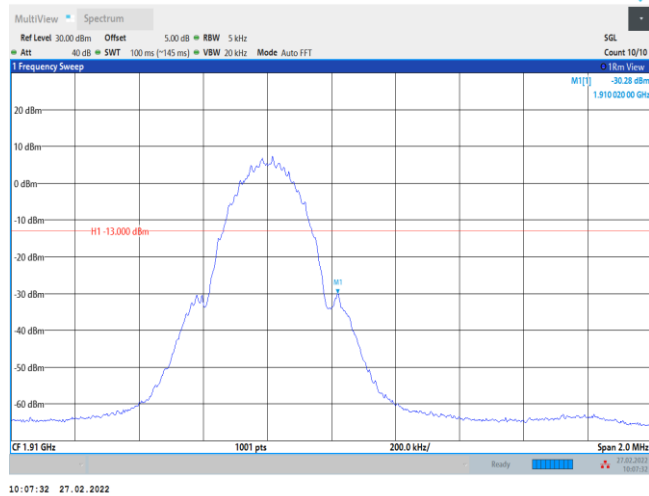
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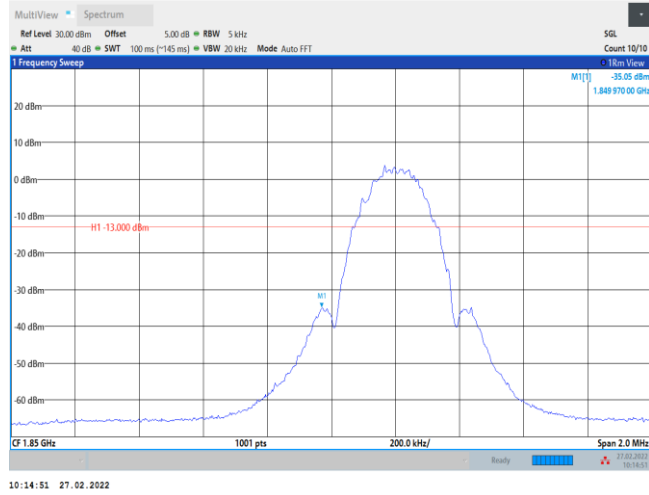


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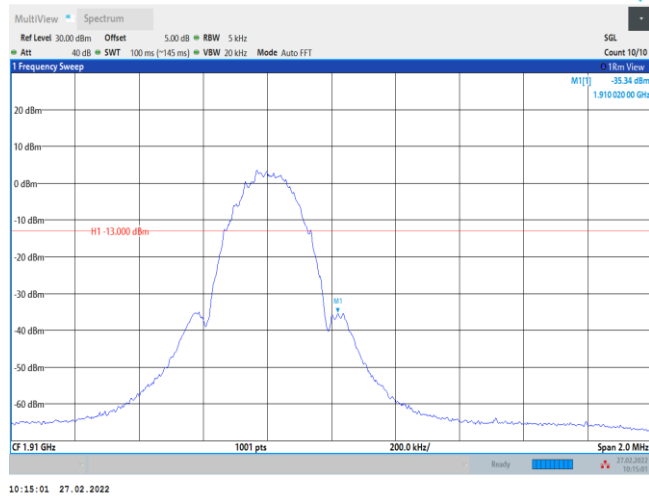


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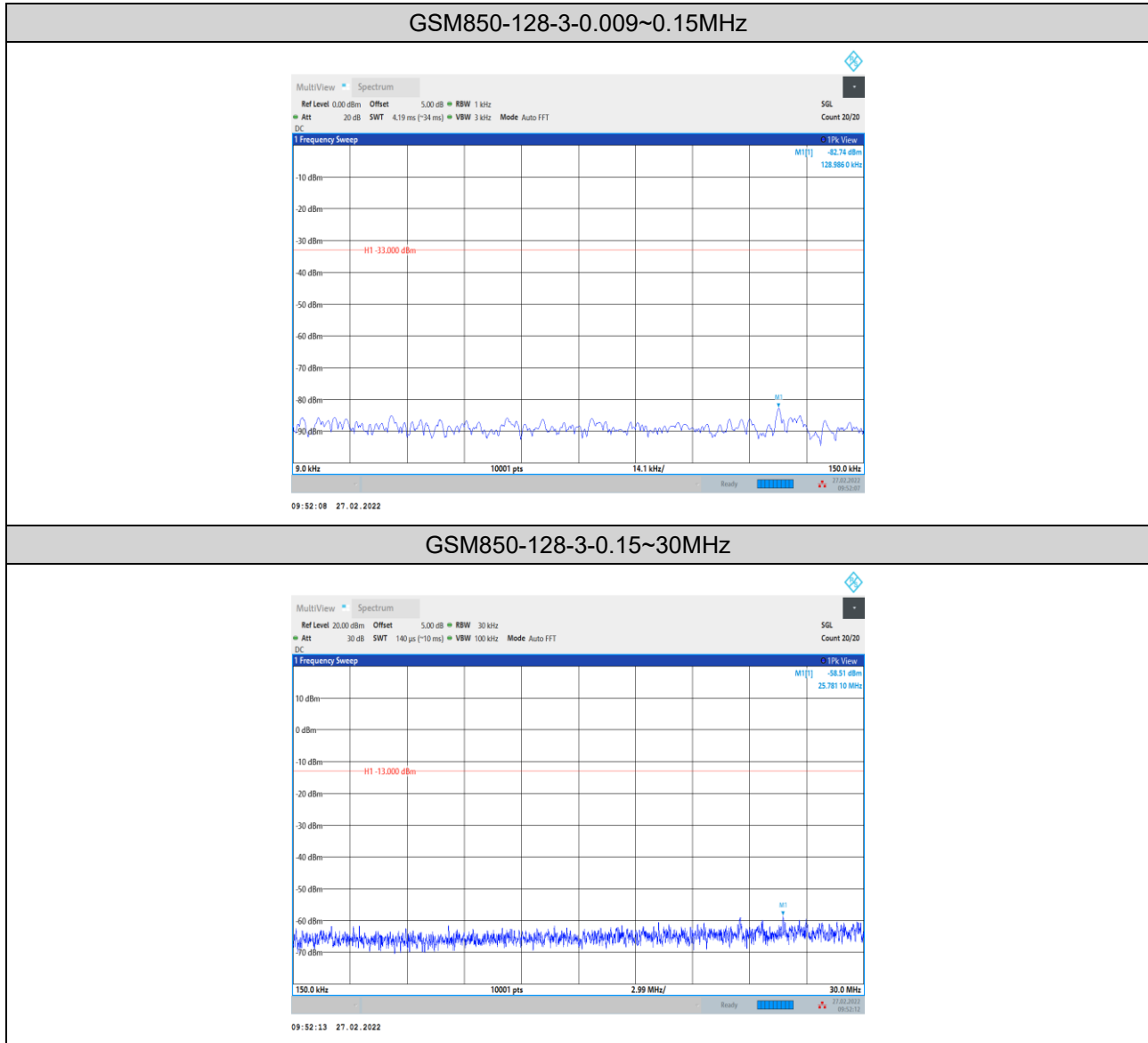
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Conducted Spurious Emission

Test Graphs



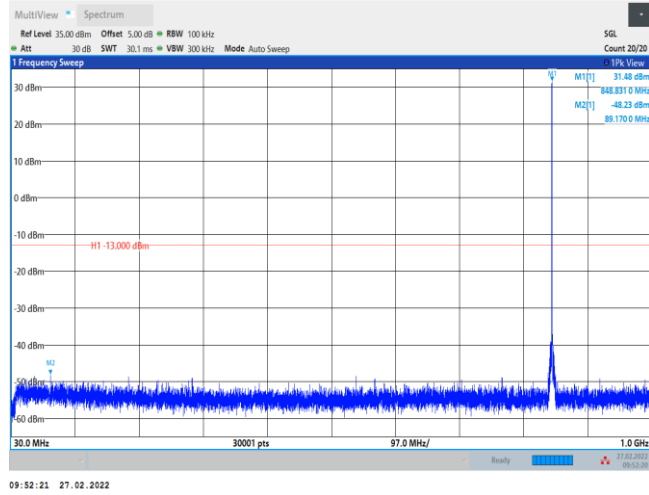
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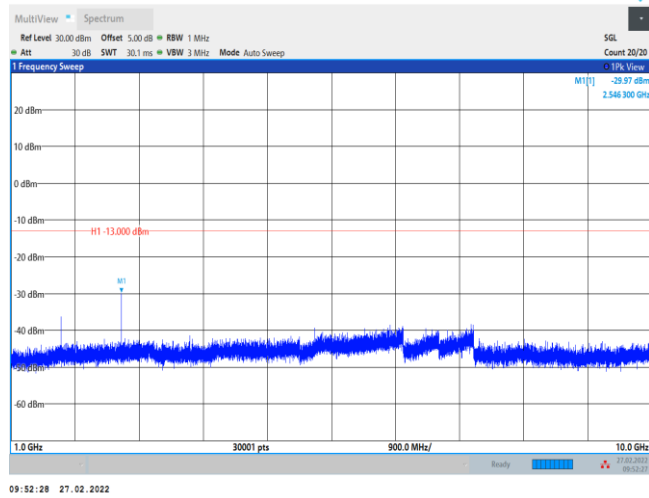
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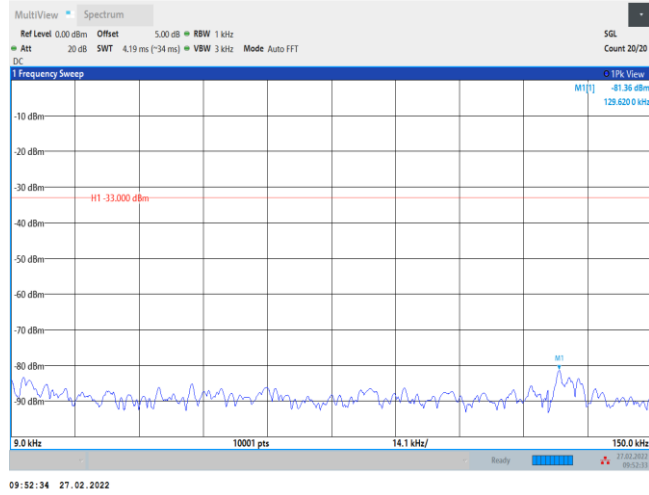
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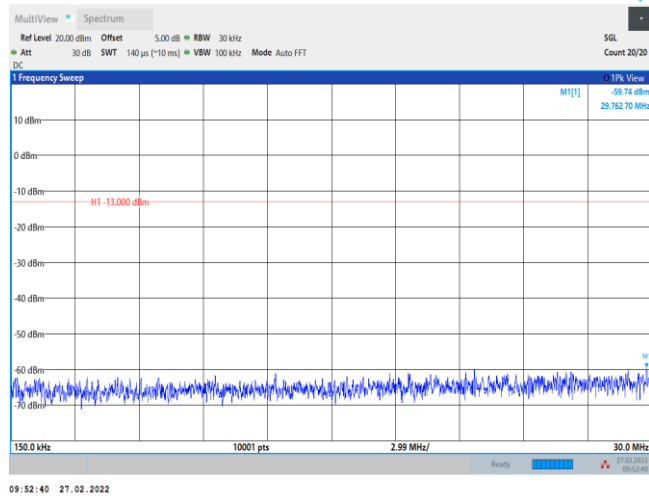
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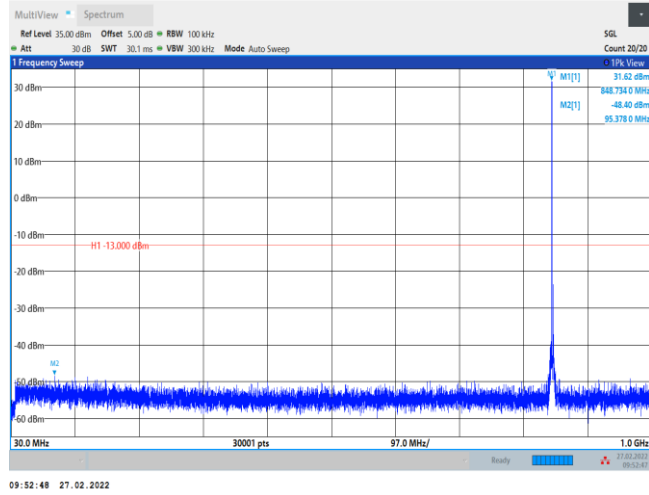
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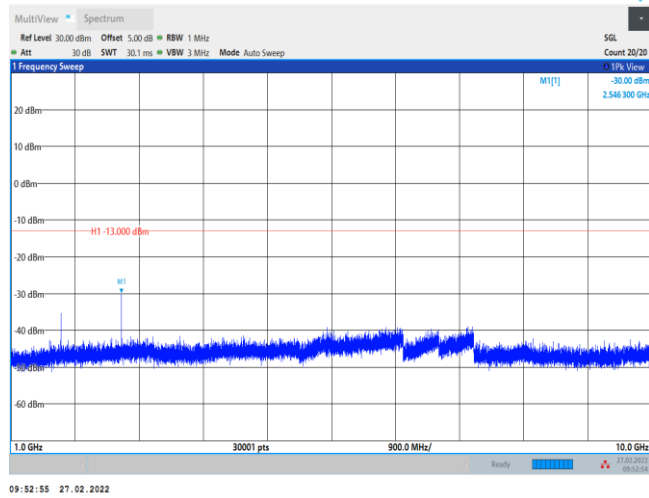
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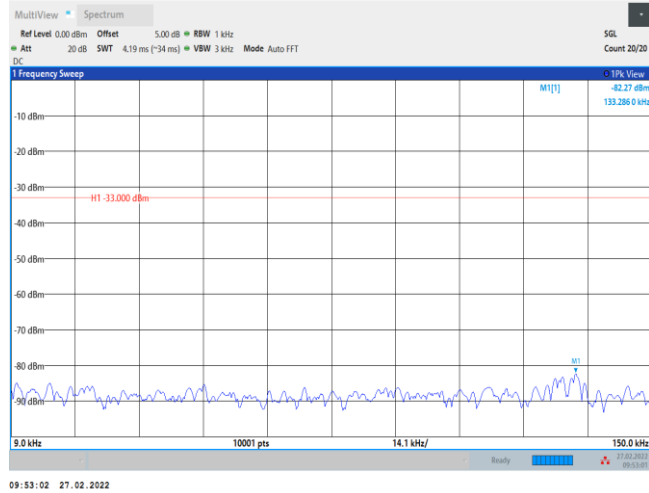
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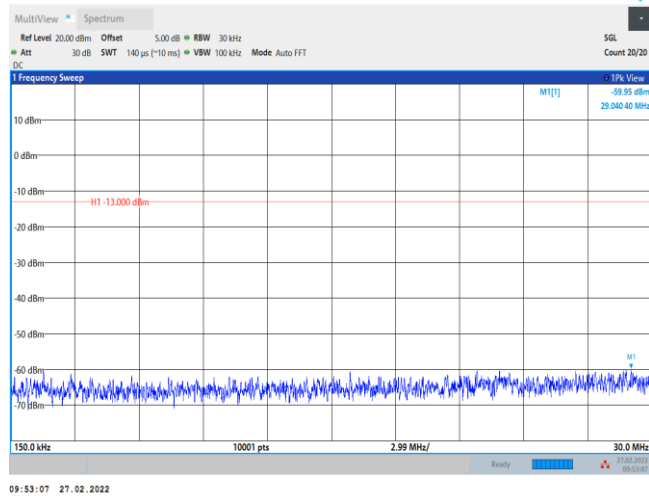
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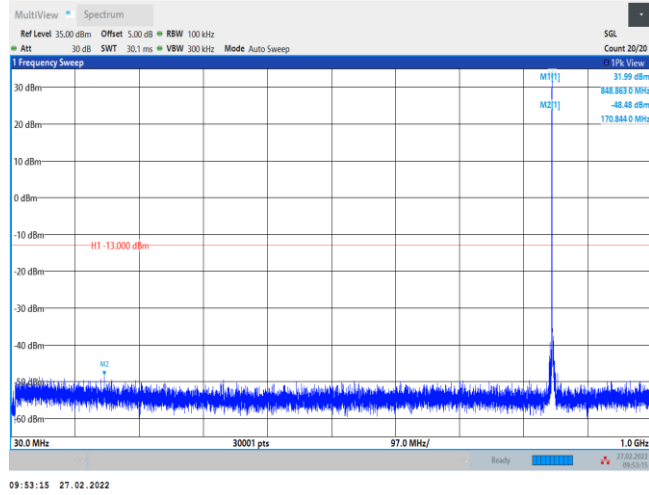
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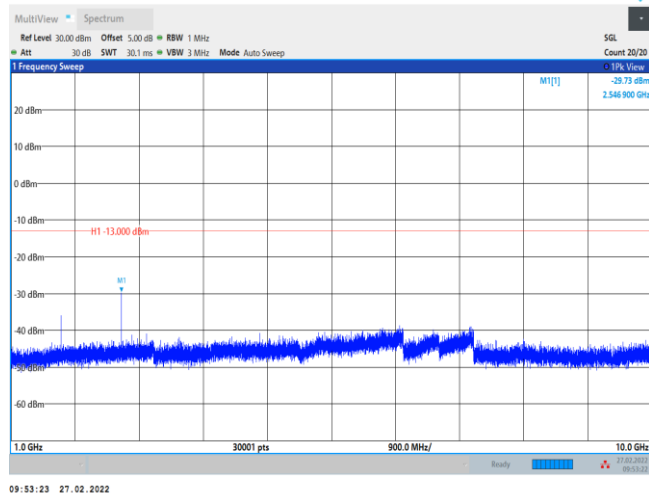
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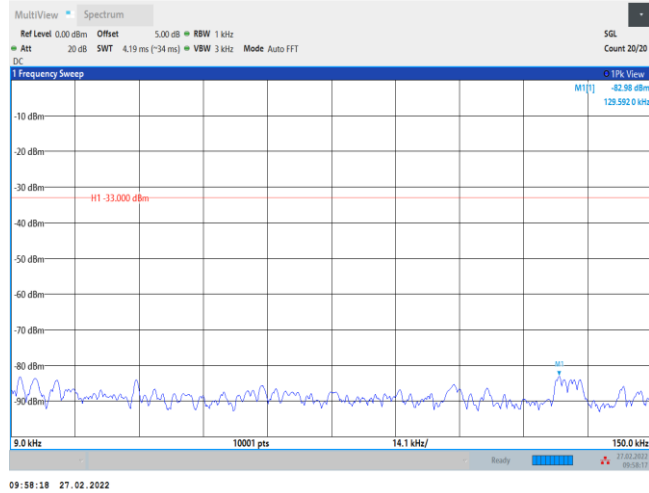
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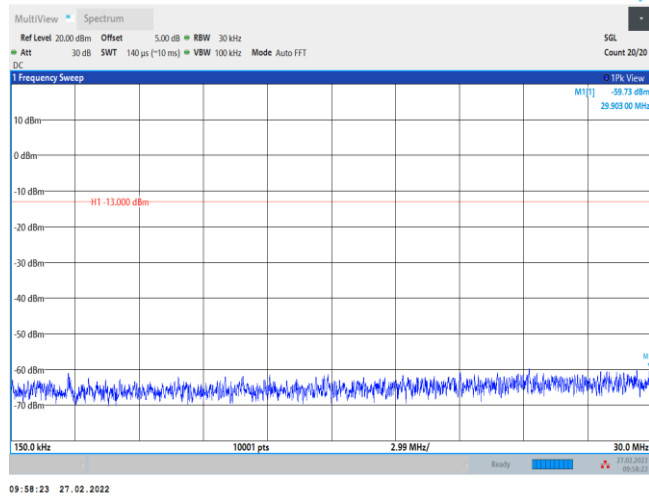
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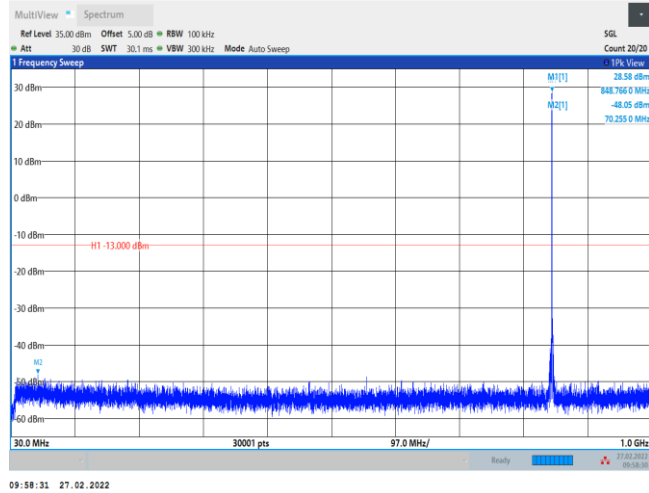
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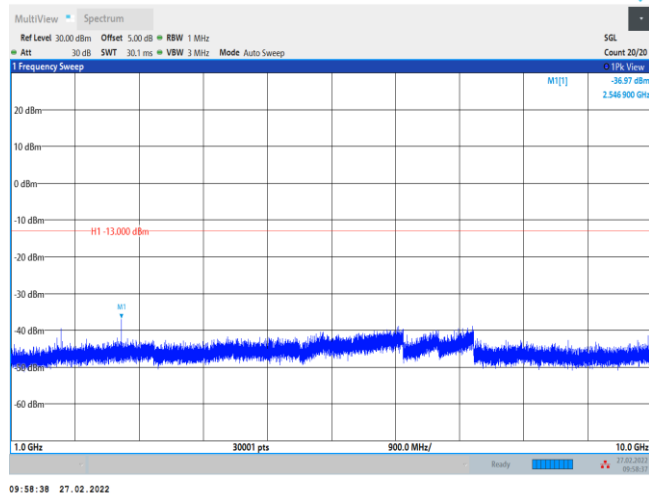
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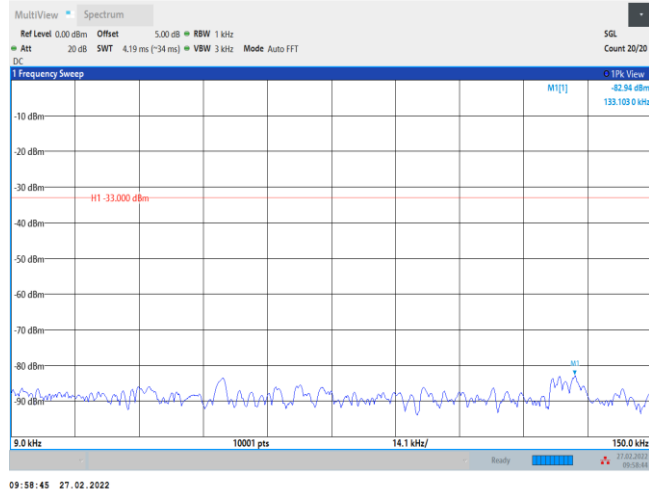
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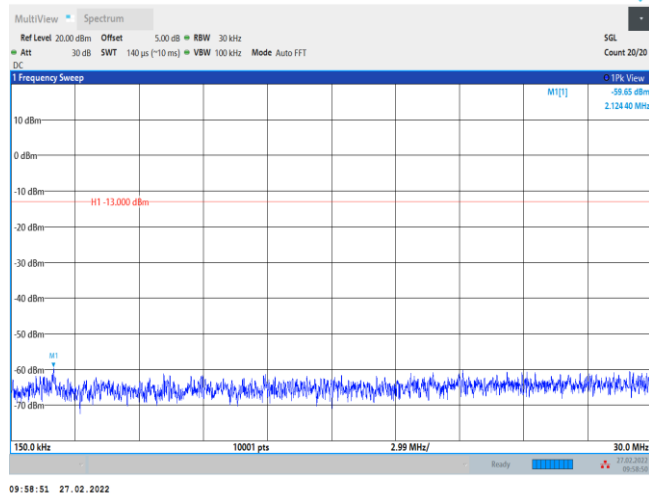
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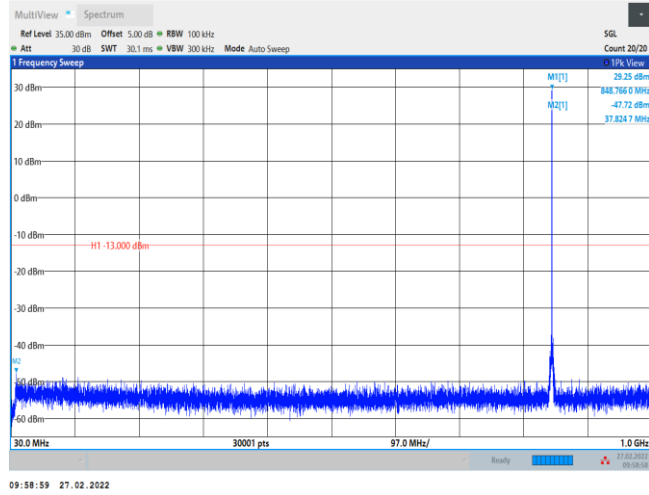
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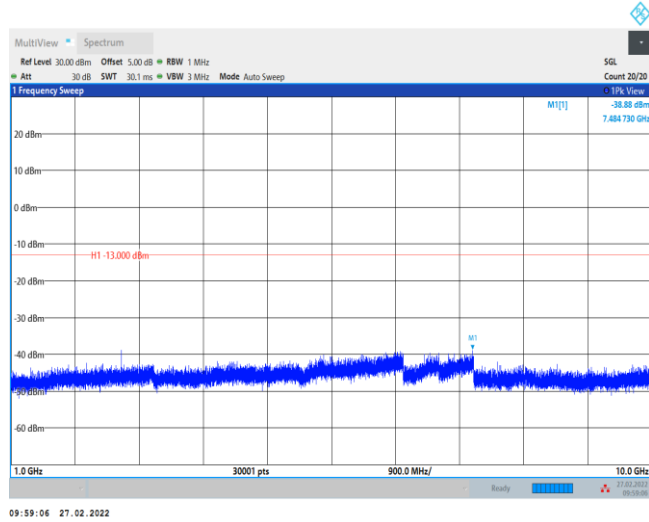
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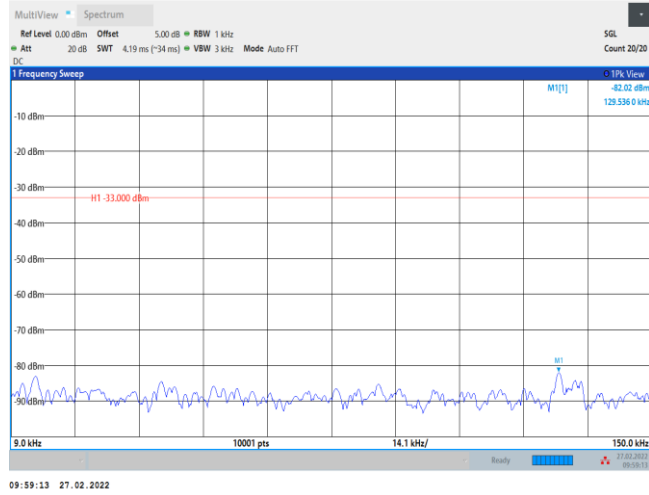
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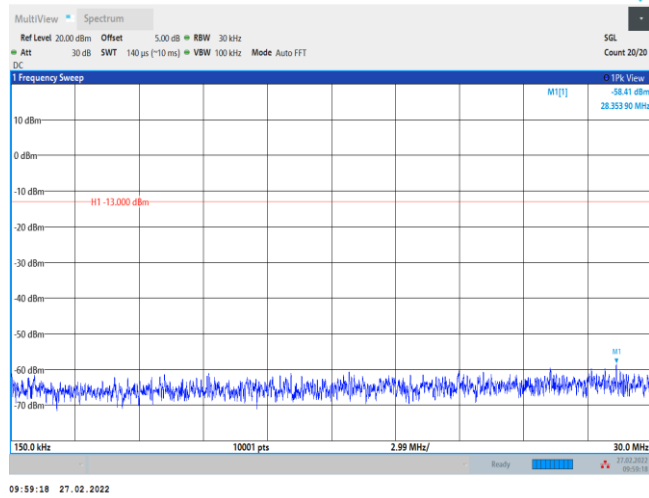
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EGPRS850-251-8-0.009~0.15MHz



EGPRS850-251-8-0.15~30MHz



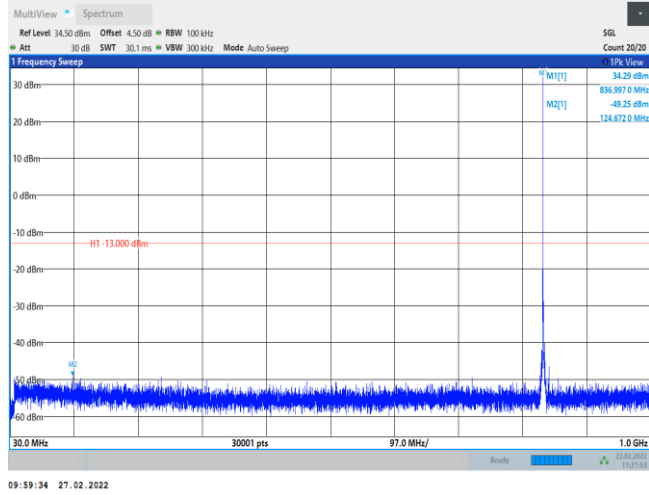
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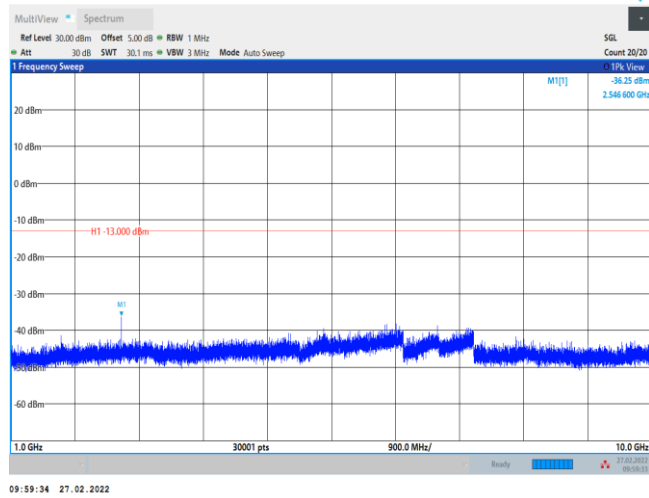
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EGPRS850-251-8-30~1000MHz



EGPRS850-251-8-1000~10000MHz



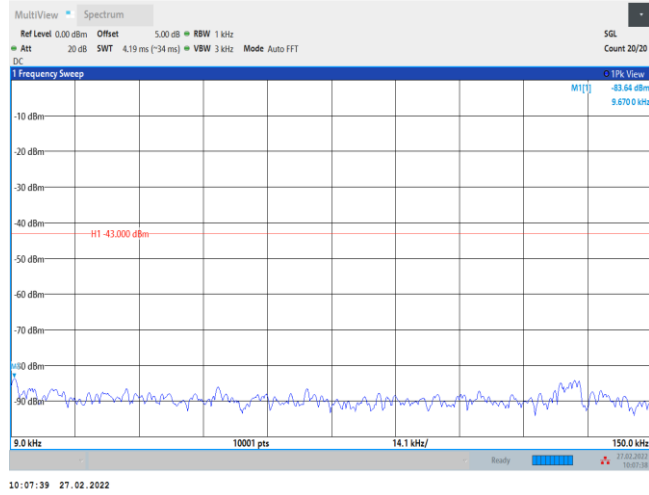
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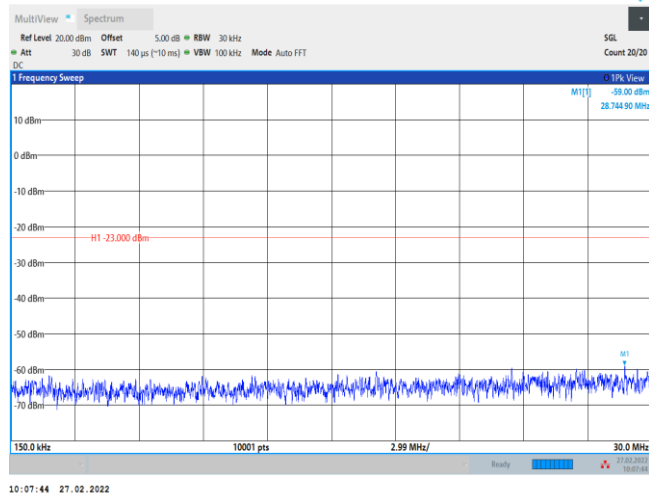
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GSM1900-512-0-0.009~0.15MHz



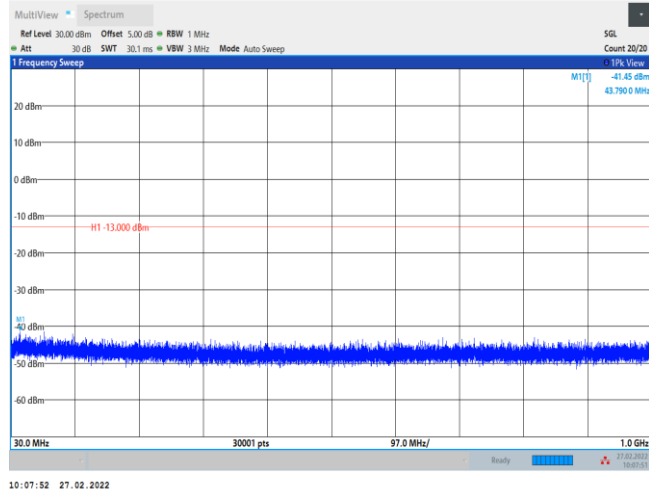
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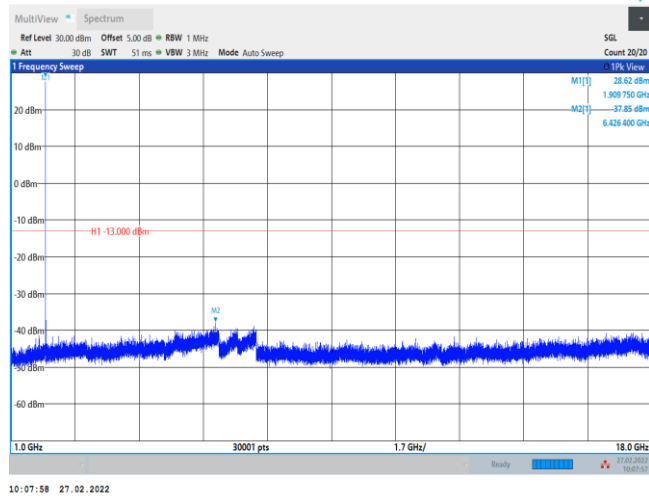
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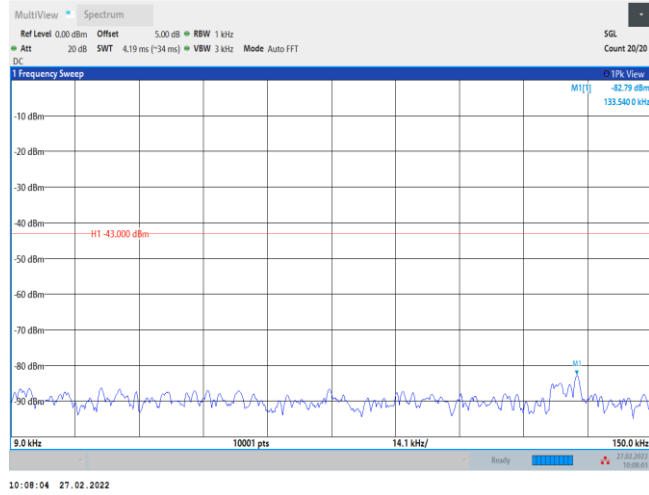
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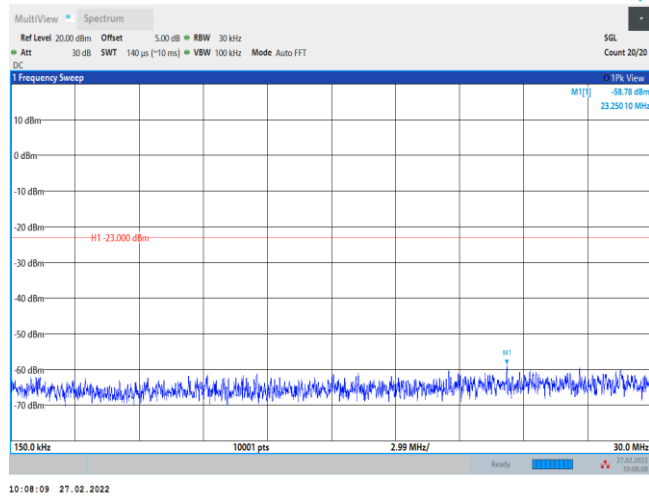
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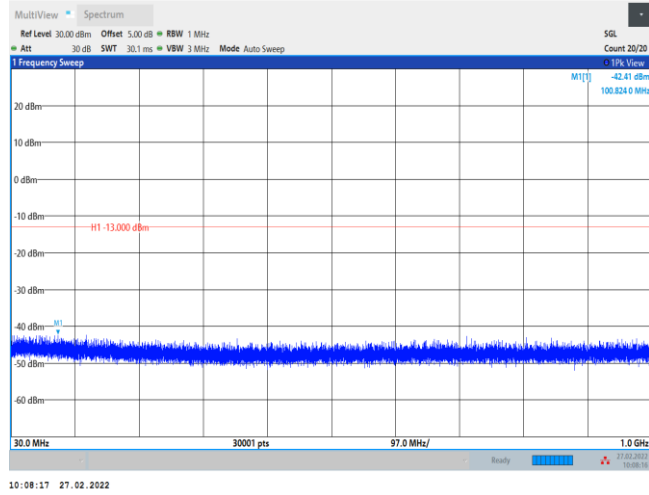
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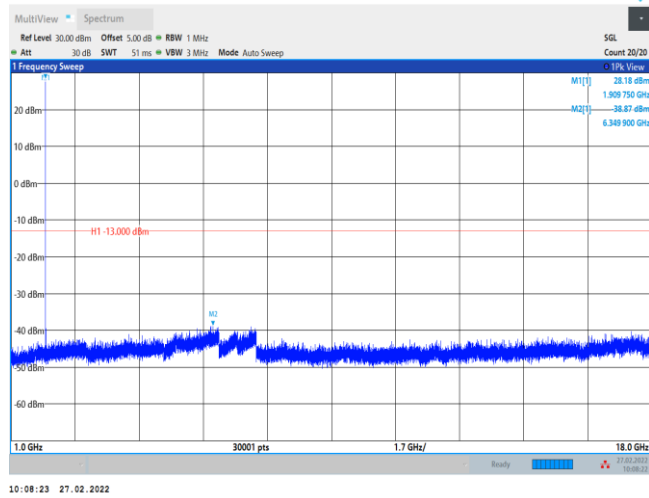
GSM1900-661-0-0.15~30MHz



GSM1900-661-0-30~1000MHz



GSM1900-661-0-1000~1800MHz



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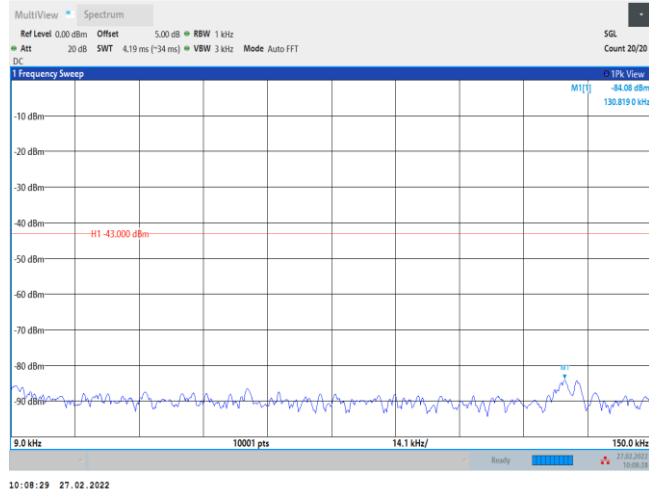
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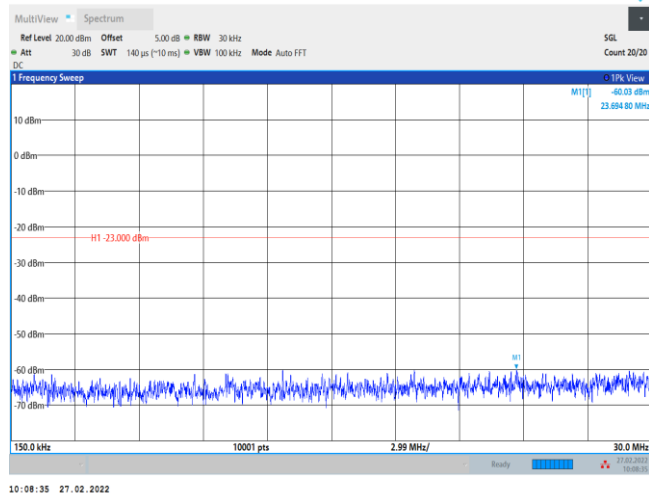
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GSM1900-810-0-0.15~30MHz

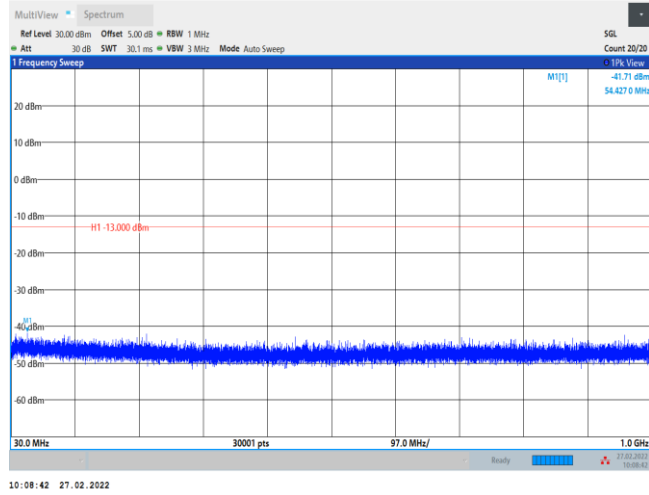


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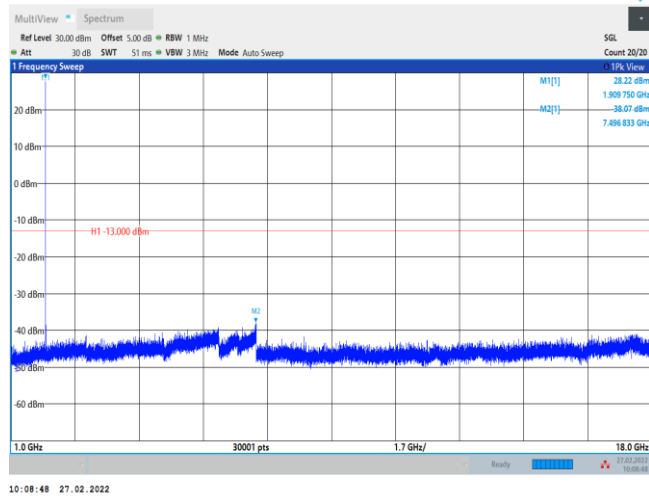
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GSM1900-810-0-30~1000MHz



GSM1900-810-0-1000~1800MHz



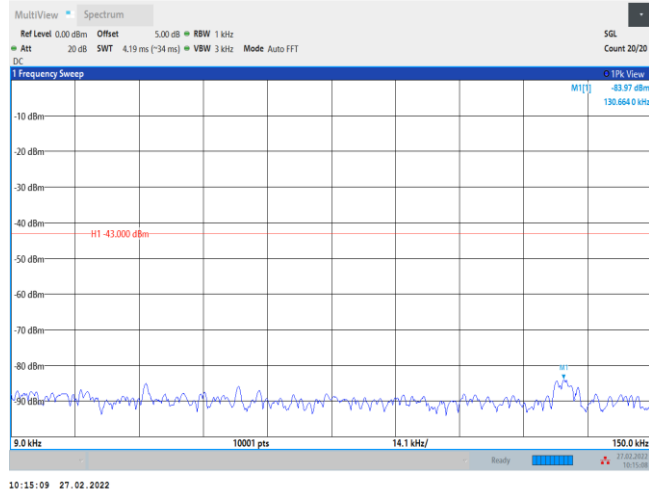
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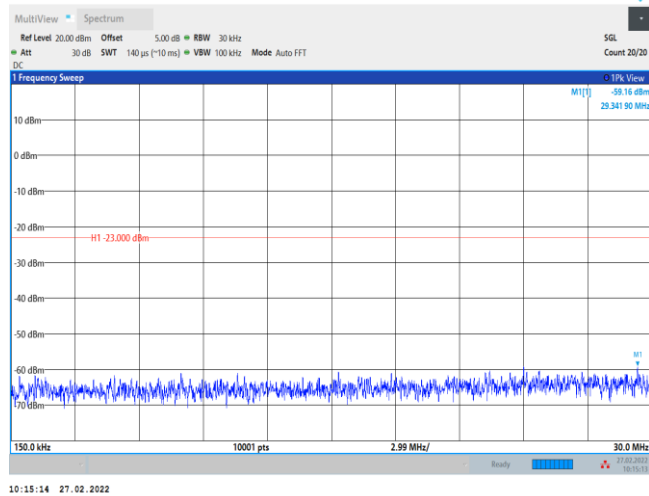
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EGPRS1900-512-2-0.15~30MHz



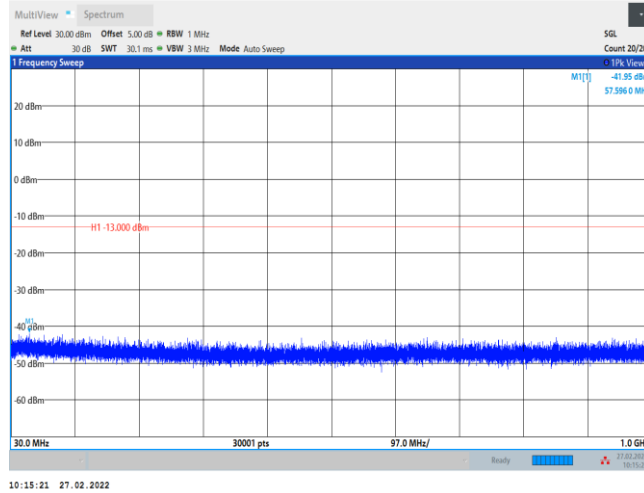
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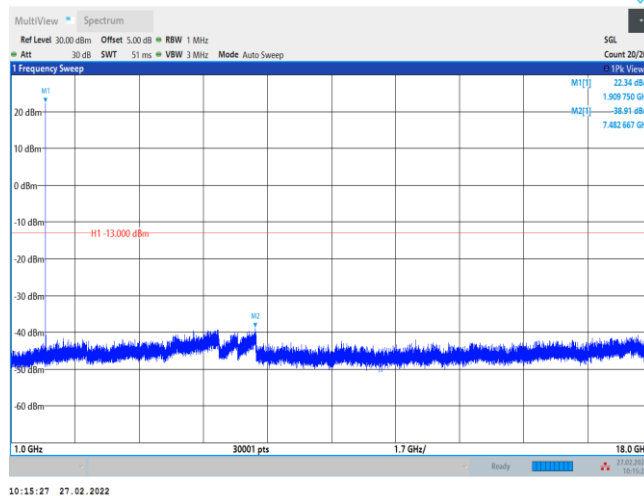
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EGPRS1900-512-2-1000~18000MHz



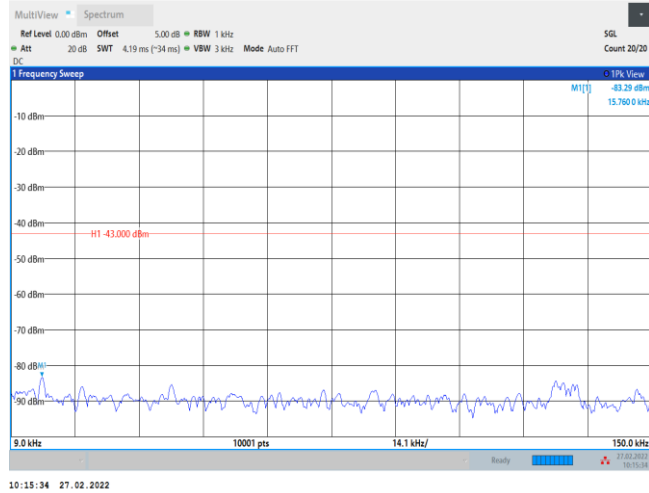
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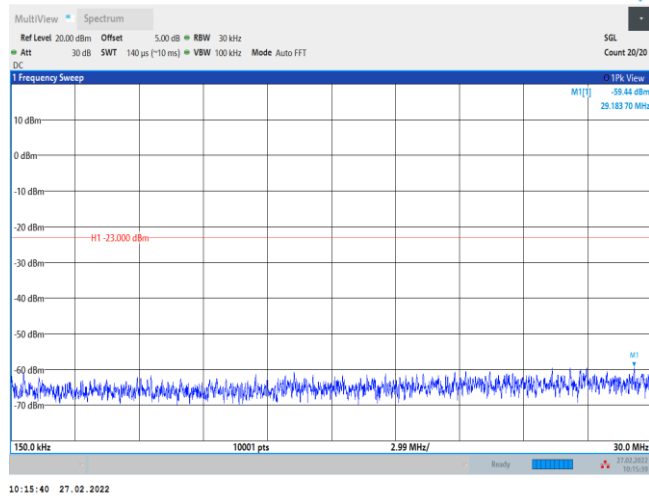
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EGPRS1900-661-2-0.009~0.15MHz



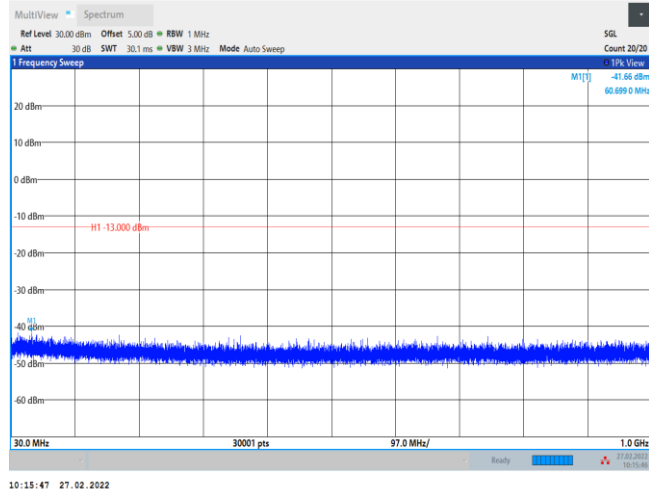
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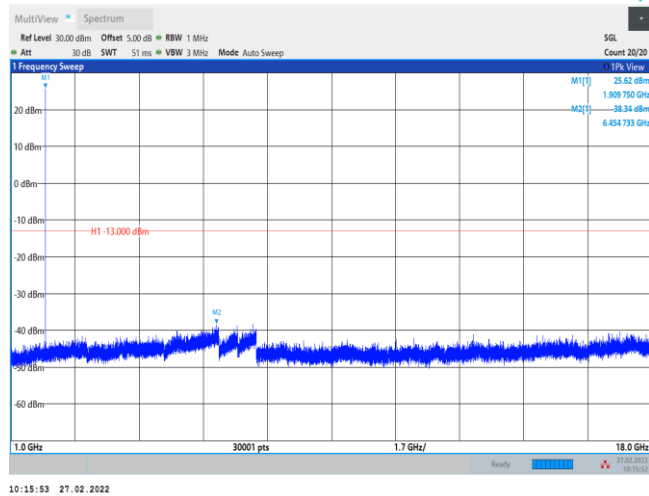
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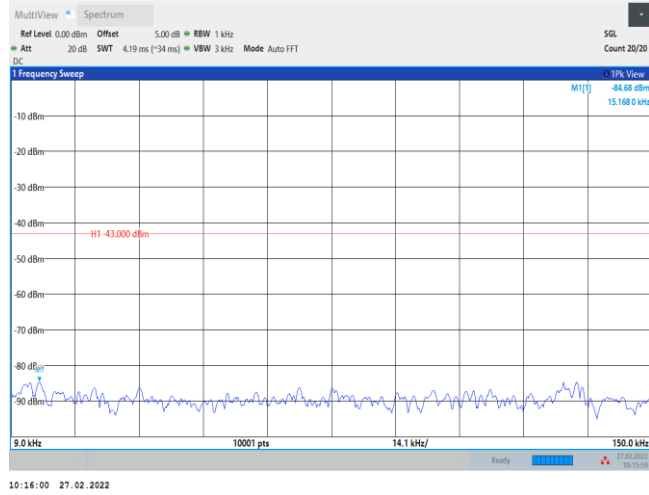


EGPRS1900-661-2-1000~18000MHz

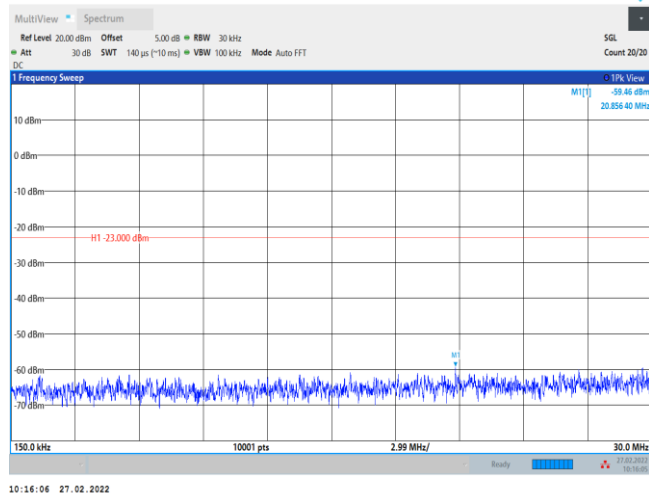


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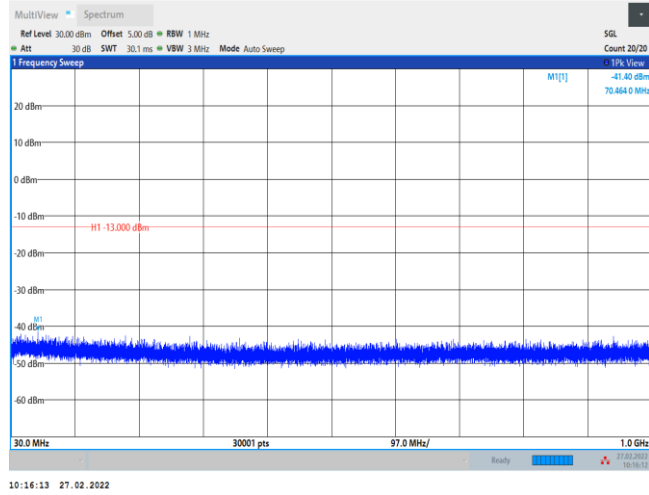
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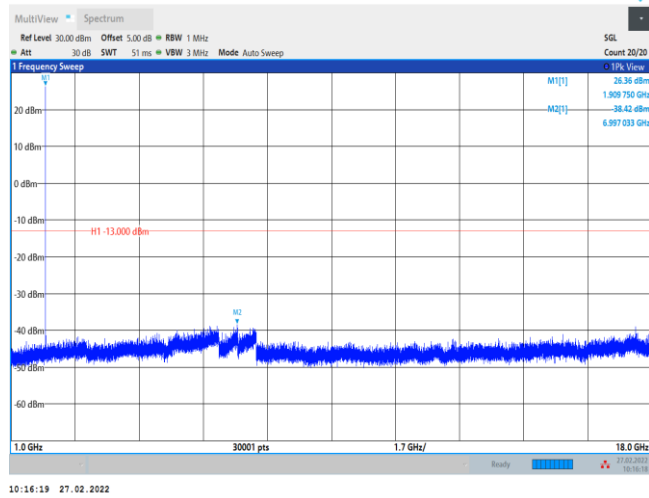
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Field Strength of Spurious Radiation

Test Band = GSM850_TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648	59.83	-118.07	-58.24	-13.00	45.24	165	277	Horizontal
2	2472.6	51.40	-114.37	-62.97	-13.00	49.97	124	34	Horizontal
3	3296.8	50.74	-111.89	-61.15	-13.00	48.15	199	203	Horizontal
4	4121	47.97	-109.81	-61.84	-13.00	48.84	238	192	Horizontal
5	4945.2	50.60	-107.88	-57.28	-13.00	44.28	125	192	Horizontal
6	5922	52.76	-104.59	-51.83	-13.00	38.83	288	150	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648	59.35	-118.07	-58.72	-13.00	45.72	196	354	Vertical
2	2472.6	51.14	-114.37	-63.23	-13.00	50.23	235	359	Vertical
3	3296.8	50.61	-111.89	-61.28	-13.00	48.28	188	145	Vertical
4	4121	48.57	-109.81	-61.24	-13.00	48.24	194	113	Vertical
5	4945.2	50.91	-107.88	-56.97	-13.00	43.97	128	359	Vertical
6	6452	51.92	-103.08	-51.16	-13.00	38.16	172	122	Vertical



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Test Band = GSM850_TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	61.03	-118.01	-56.98	-13.00	43.98	194	22	Horizontal
2	2509.2	57.11	-114.12	-57.01	-13.00	44.01	238	0	Horizontal
3	3345.6	50.92	-111.99	-61.07	-13.00	48.07	142	155	Horizontal
4	4182	50.29	-109.53	-59.24	-13.00	46.24	188	277	Horizontal
5	5018.4	49.33	-107.59	-58.26	-13.00	45.26	164	127	Horizontal
6	6098	52.30	-103.74	-51.44	-13.00	38.44	188	234	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672	60.15	-118.01	-57.86	-13.00	44.86	196	315	Vertical
2	2509.2	58.23	-114.12	-55.89	-13.00	42.89	234	351	Vertical
3	3345.6	50.26	-111.99	-61.73	-13.00	48.73	184	148	Vertical
4	4182	51.73	-109.53	-57.80	-13.00	44.80	126	359	Vertical
5	5018.4	50.10	-107.59	-57.49	-13.00	44.49	235	168	Vertical
6	5984	52.58	-104.61	-52.03	-13.00	39.03	155	262	Vertical



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Test Band = GSM850_ TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6	66.16	-117.95	-51.79	-13.00	38.79	122	110	Horizontal
2	2546	59.96	-114.17	-54.21	-13.00	41.21	158	56	Horizontal
3	3395.2	50.45	-112.09	-61.64	-13.00	48.64	194	339	Horizontal
4	3396	50.45	-112.09	-61.64	-13.00	48.64	153	339	Horizontal
5	4244	53.58	-109.38	-55.80	-13.00	42.80	188	161	Horizontal
6	5092.8	49.20	-107.28	-58.08	-13.00	45.08	164	26	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6	60.86	-117.95	-57.09	-13.00	44.09	196	190	Vertical
2	2546.4	53.84	-114.18	-60.34	-13.00	47.34	234	128	Vertical
3	3395.2	50.45	-112.09	-61.64	-13.00	48.64	188	169	Vertical
4	4244	56.02	-109.38	-53.36	-13.00	40.36	194	11	Vertical
5	5092.8	49.27	-107.28	-58.01	-13.00	45.01	238	254	Vertical
6	6474	52.37	-103.11	-50.74	-13.00	37.74	172	128	Vertical



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Test Band = GSM1900_ TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4	47.33	-111.08	-63.75	-13.00	50.75	256	296	Horizontal
2	5550.6	49.49	-106.37	-56.88	-13.00	43.88	155	344	Horizontal
3	7400.8	46.84	-100.80	-53.96	-13.00	40.96	148	313	Horizontal
4	9251	46.55	-95.08	-48.53	-13.00	35.53	197	360	Horizontal
5	11101.2	40.83	-91.14	-50.31	-13.00	37.31	120	199	Horizontal
6	13652.25	45.96	-90.17	-44.21	-13.00	31.21	233	265	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4	48.36	-111.08	-62.72	-13.00	49.72	155	33	Vertical
2	5550.6	48.98	-106.37	-57.39	-13.00	44.39	164	165	Vertical
3	7400.8	47.15	-100.80	-53.65	-13.00	40.65	198	233	Vertical
4	9251	45.94	-95.08	-49.14	-13.00	36.14	172	355	Vertical
5	11101.2	42.45	-91.14	-48.69	-13.00	35.69	235	111	Vertical
6	13607.25	44.73	-90.08	-45.35	-13.00	32.35	146	346	Vertical



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Test Band =GSM1900_ TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	47.26	-110.77	-63.51	-13.00	50.51	198	314	Horizontal
2	5640	48.40	-106.02	-57.62	-13.00	44.62	265	82	Horizontal
3	7520	46.91	-100.25	-53.34	-13.00	40.34	142	280	Horizontal
4	9400	45.67	-94.86	-49.19	-13.00	36.19	102	25	Horizontal
5	11280	43.44	-91.22	-47.78	-13.00	34.78	205	345	Horizontal
6	13621.5	44.51	-90.11	-45.60	-13.00	32.60	233	115	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	46.59	-110.77	-64.18	-13.00	51.18	159	315	Vertical
2	5640	48.85	-106.02	-57.17	-13.00	44.17	184	82	Vertical
3	7520	48.07	-100.25	-52.18	-13.00	39.18	256	116	Vertical
4	9400	45.78	-94.86	-49.08	-13.00	36.08	234	360	Vertical
5	11280	41.24	-91.22	-49.98	-13.00	36.98	178	132	Vertical
6	13707	45.11	-90.27	-45.16	-13.00	32.16	194	116	Vertical



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Test Band =GSM1900_ TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6	48.93	-110.53	-61.60	-13.00	48.60	120	150	Horizontal
2	7639.2	48.18	-99.77	-51.59	-13.00	38.59	236	202	Horizontal
3	9549	42.90	-94.84	-51.94	-13.00	38.94	258	355	Horizontal
4	11458.8	40.23	-91.38	-51.15	-13.00	38.15	147	233	Horizontal
5	12595.5	45.71	-90.64	-44.93	-13.00	31.93	231	360	Horizontal
6	16445.25	43.13	-89.12	-45.99	-13.00	32.99	301	185	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6	47.96	-110.53	-62.57	-13.00	49.57	117	3	Vertical
2	7639.2	47.50	-99.77	-52.27	-13.00	39.27	225	165	Vertical
3	9549	42.99	-94.84	-51.85	-13.00	38.85	142	215	Vertical
4	11458.8	41.12	-91.38	-50.26	-13.00	37.26	165	50	Vertical
5	13599.75	45.12	-90.07	-44.95	-13.00	31.95	238	358	Vertical
6	16498.5	43.67	-89.40	-45.73	-13.00	32.73	190	360	Vertical



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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	-11.17	-0.013352	±2.5	PASS
GSM850	190	VN	NT	-11.07	-0.013232	±2.5	PASS
GSM850	190	VH	NT	-10.82	-0.012933	±2.5	PASS
EGPRS850	190	VL	NT	3.84	0.004590	±2.5	PASS
EGPRS850	190	VN	NT	5.78	0.006909	±2.5	PASS
EGPRS850	190	VH	NT	5.17	0.006180	±2.5	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	-17.47	-0.009293	PASS
GSM1900	661	VN	NT	-19.24	-0.010234	PASS
GSM1900	661	VH	NT	-14.17	-0.007537	PASS
EGPRS1900	661	VL	NT	-2.84	-0.001511	PASS
EGPRS1900	661	VN	NT	-3.71	-0.001973	PASS
EGPRS1900	661	VH	NT	-5.42	-0.002883	PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	-6.23	-0.007447	±2.5	PASS
GSM850	190	NV	-20	-6.91	-0.008260	±2.5	PASS
GSM850	190	NV	-10	-10.07	-0.012037	±2.5	PASS
GSM850	190	NV	0	-8.20	-0.009802	±2.5	PASS
GSM850	190	NV	10	-9.78	-0.011690	±2.5	PASS
GSM850	190	NV	20	-8.56	-0.010232	±2.5	PASS
GSM850	190	NV	30	-8.17	-0.009766	±2.5	PASS
GSM850	190	NV	40	-11.01	-0.013160	±2.5	PASS
GSM850	190	NV	50	-8.88	-0.010614	±2.5	PASS
EGPRS850	190	NV	-30	1.36	0.001626	±2.5	PASS
EGPRS850	190	NV	-20	2.03	0.002426	±2.5	PASS
EGPRS850	190	NV	-10	4.49	0.005367	±2.5	PASS
EGPRS850	190	NV	0	5.00	0.005977	±2.5	PASS
EGPRS850	190	NV	10	3.36	0.004016	±2.5	PASS
EGPRS850	190	NV	20	1.78	0.002128	±2.5	PASS
EGPRS850	190	NV	30	2.65	0.003168	±2.5	PASS
EGPRS850	190	NV	40	5.20	0.006216	±2.5	PASS
EGPRS850	190	NV	50	5.36	0.006407	±2.5	PASS



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Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	-17.53	-0.009324	PASS
GSM1900	661	NV	-20	-15.43	-0.008207	PASS
GSM1900	661	NV	-10	-18.98	-0.010096	PASS
GSM1900	661	NV	0	-17.34	-0.009223	PASS
GSM1900	661	NV	10	-17.14	-0.009117	PASS
GSM1900	661	NV	20	-14.08	-0.007489	PASS
GSM1900	661	NV	30	-16.14	-0.008585	PASS
GSM1900	661	NV	40	-16.85	-0.008963	PASS
GSM1900	661	NV	50	-20.92	-0.011128	PASS
EGPRS1900	661	NV	-30	-5.07	-0.002697	PASS
EGPRS1900	661	NV	-20	-3.07	-0.001633	PASS
EGPRS1900	661	NV	-10	-3.07	-0.001633	PASS
EGPRS1900	661	NV	0	-2.87	-0.001527	PASS
EGPRS1900	661	NV	10	-2.55	-0.001356	PASS
EGPRS1900	661	NV	20	-5.00	-0.002660	PASS
EGPRS1900	661	NV	30	-2.87	-0.001527	PASS
EGPRS1900	661	NV	40	-5.33	-0.002835	PASS
EGPRS1900	661	NV	50	-2.52	-0.001340	PASS

The End



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