



Report No.: SEWM2209000168RG01

Rev.: 01

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Appendix B.1

GSM850&1900



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT0:

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.48	20.66	38.45	PASS
GSM850	190	32.42	20.6	38.45	PASS
GSM850	251	32.41	20.59	38.45	PASS
Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	29.26	25.97	33.00	PASS
GSM1900	661	29.48	26.19	33.00	PASS
GSM1900	810	29.32	26.03	33.00	PASS

ANT1:

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.37	23.42	38.45	PASS
GSM850	190	32.43	23.48	38.45	PASS
GSM850	251	32.33	23.38	38.45	PASS



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ANT0:

Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	25.85	14.03	38.45	PASS
EGPRS850	128	2	23.36	11.54	38.45	PASS
EGPRS850	128	3	21.70	9.88	38.45	PASS
EGPRS850	128	4	20.33	8.51	38.45	PASS
EGPRS850	190	1	25.77	13.95	38.45	PASS
EGPRS850	190	2	23.48	11.66	38.45	PASS
EGPRS850	190	3	21.76	9.94	38.45	PASS
EGPRS850	190	4	20.45	8.63	38.45	PASS
EGPRS850	251	1	25.81	13.99	38.45	PASS
EGPRS850	251	2	23.27	11.45	38.45	PASS
EGPRS850	251	3	21.42	9.6	38.45	PASS
EGPRS850	251	4	20.30	8.48	38.45	PASS
Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	25.63	22.34	33.00	PASS
EGPRS1900	512	2	22.43	19.14	33.00	PASS
EGPRS1900	512	3	20.61	17.32	33.00	PASS
EGPRS1900	512	4	19.46	16.17	33.00	PASS
EGPRS1900	661	1	25.75	22.46	33.00	PASS
EGPRS1900	661	2	22.53	19.24	33.00	PASS
EGPRS1900	661	3	20.50	17.21	33.00	PASS
EGPRS1900	661	4	19.46	16.17	33.00	PASS
EGPRS1900	810	1	25.66	22.37	33.00	PASS
EGPRS1900	810	2	22.59	19.3	33.00	PASS
EGPRS1900	810	3	20.32	17.03	33.00	PASS
EGPRS1900	810	4	19.29	16	33.00	PASS



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ANT1:

Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.75	17.8	38.45	PASS
EGPRS850	128	2	23.92	14.97	38.45	PASS
EGPRS850	128	3	22.05	13.1	38.45	PASS
EGPRS850	128	4	21.09	12.14	38.45	PASS
EGPRS850	190	1	26.79	17.84	38.45	PASS
EGPRS850	190	2	23.88	14.93	38.45	PASS
EGPRS850	190	3	22.07	13.12	38.45	PASS
EGPRS850	190	4	21.06	12.11	38.45	PASS
EGPRS850	251	1	26.13	17.18	38.45	PASS
EGPRS850	251	2	26.73	17.78	38.45	PASS
EGPRS850	251	3	23.85	14.9	38.45	PASS
EGPRS850	251	4	22.03	13.08	38.45	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	7.54	13	PASS
GSM850	190	7.54	13	PASS
GSM850	251	8.2	13	PASS
EGPRS850	128	11.96	13	PASS
EGPRS850	190	12.04	13	PASS
EGPRS850	251	12.12	13	PASS
GSM1900	512	9.68	13	PASS
GSM1900	661	9.68	13	PASS
GSM1900	810	9.7	13	PASS
EGPRS1900	512	12.72	13	PASS
EGPRS1900	661	12.6	13	PASS
EGPRS1900	810	12.64	13	PASS

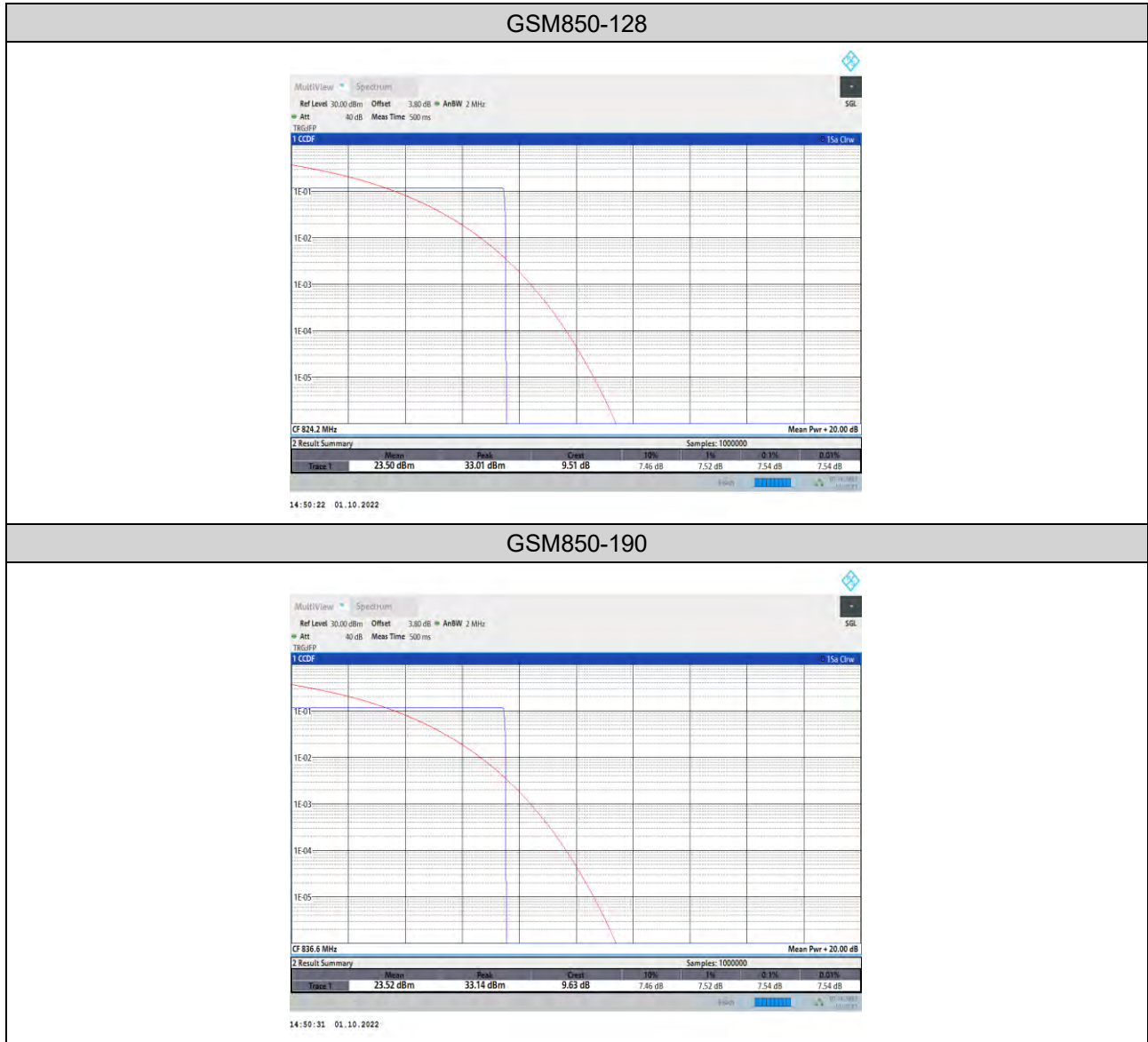


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Test Graphs

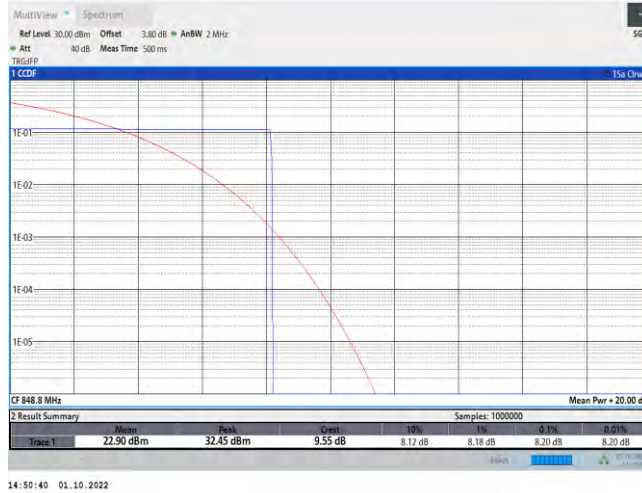


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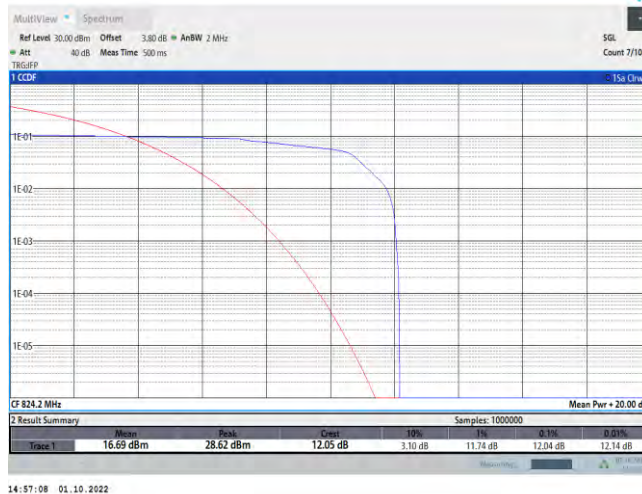
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GSM850-251



14:50:40 01.10.2022

EGPRS850-128



14:57:08 01.10.2022

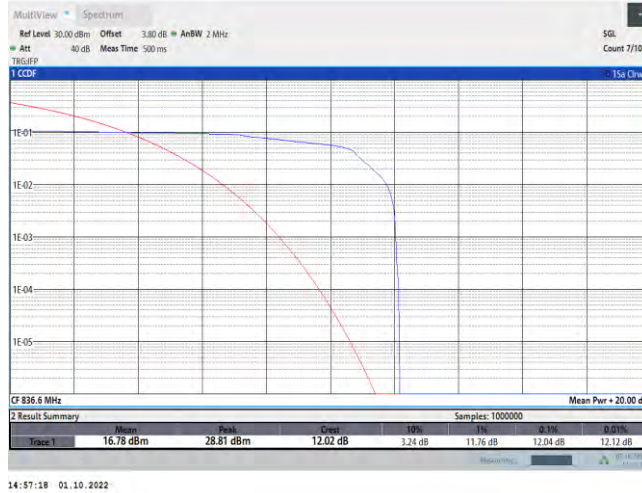


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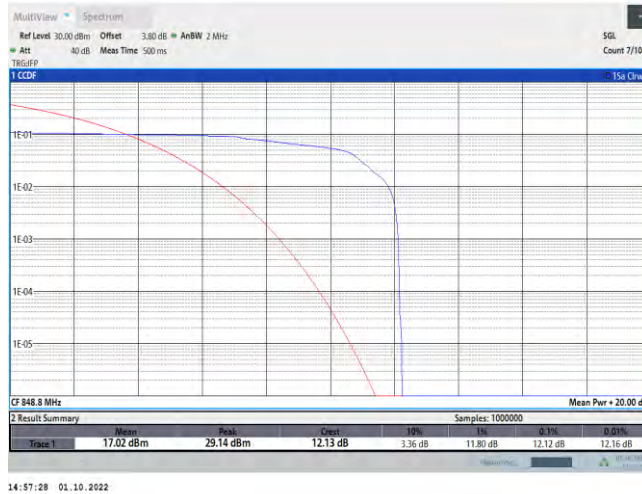
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EGPRS850-190



14:57:18 01.10.2022

EGPRS850-251



14:57:28 01.10.2022



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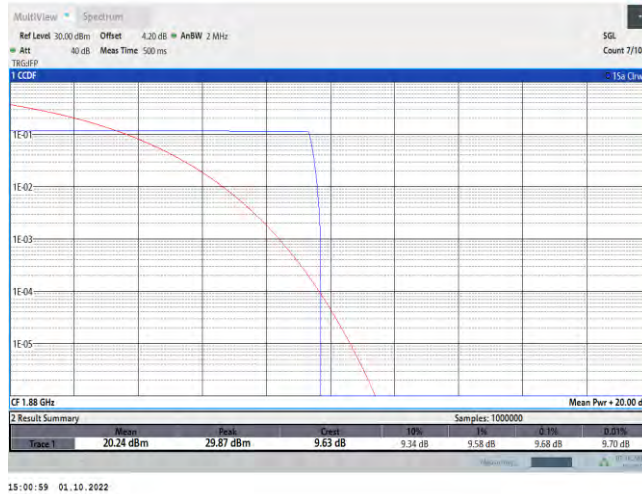
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GSM1900-512



15:00:50 01.10.2022

GSM1900-661



15:00:59 01.10.2022

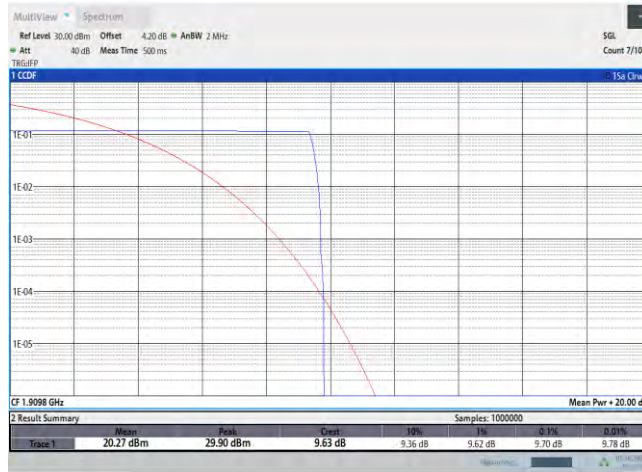


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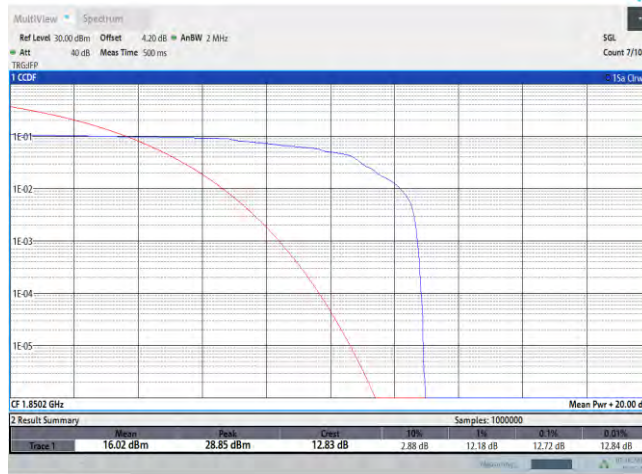
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GSM1900-810



15-01-09 01.10.2022

EGPRS1900-512



15-05-11 01.10.2022

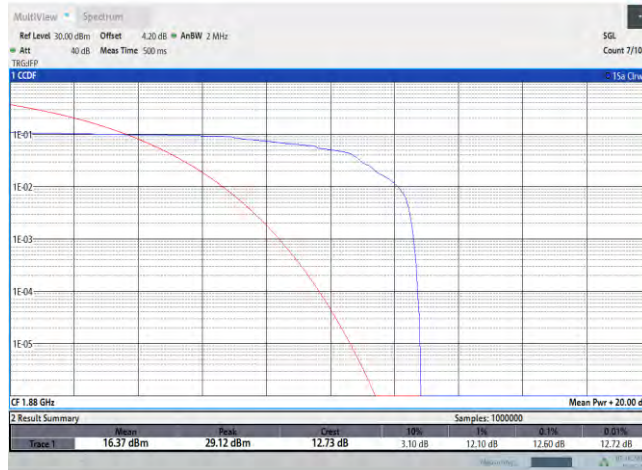


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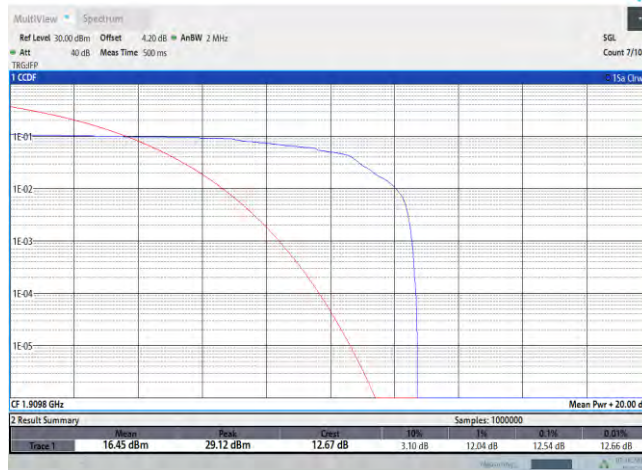
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EGPRS1900-661



15-05-21 01.10.2022

EGPRS1900-810



15-05-31 01.10.2022



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Report No.: SEWM2209000168RG01

Rev.: 01

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Modulation Characteristics

Test Result

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

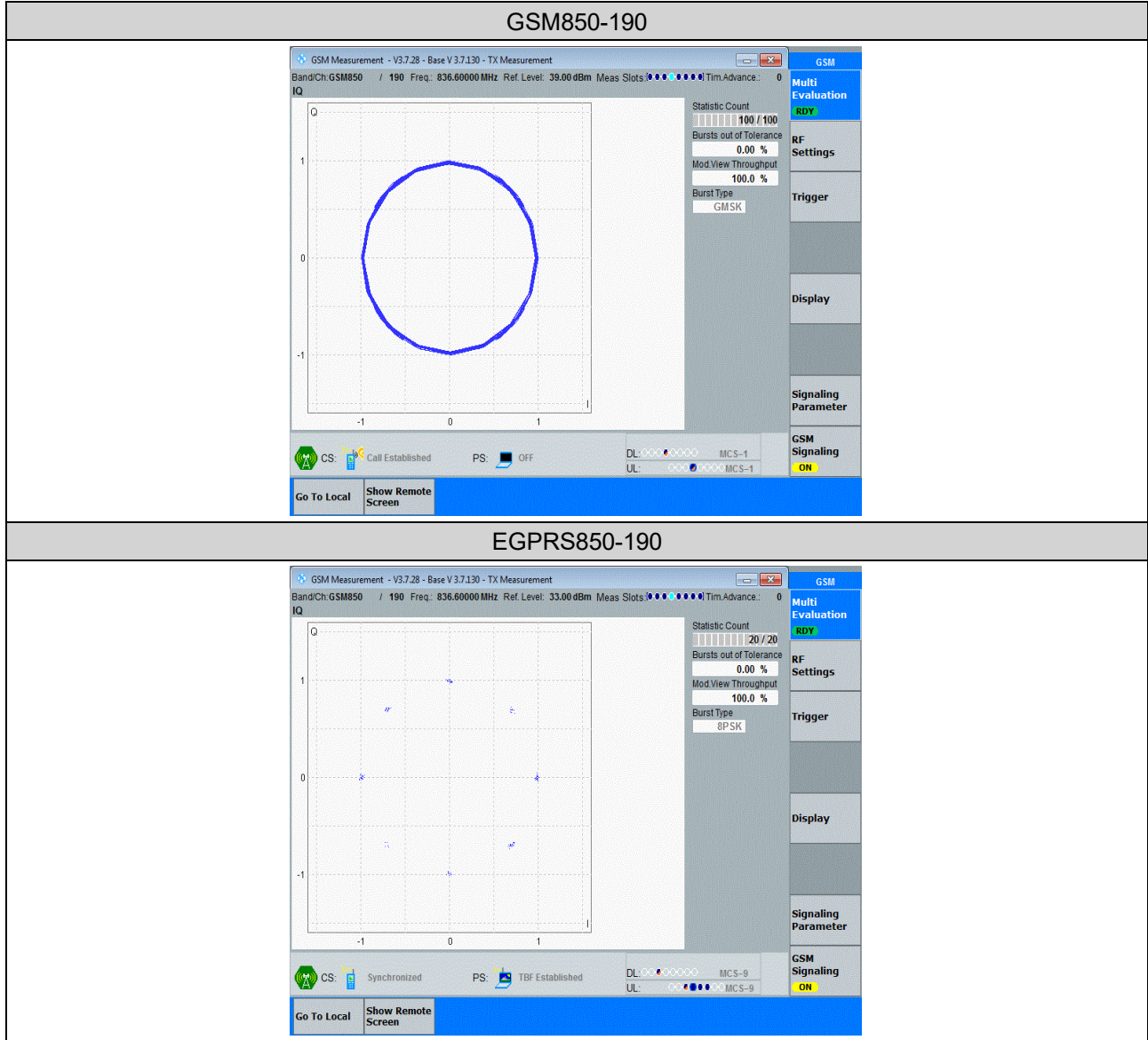


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Test Graphs

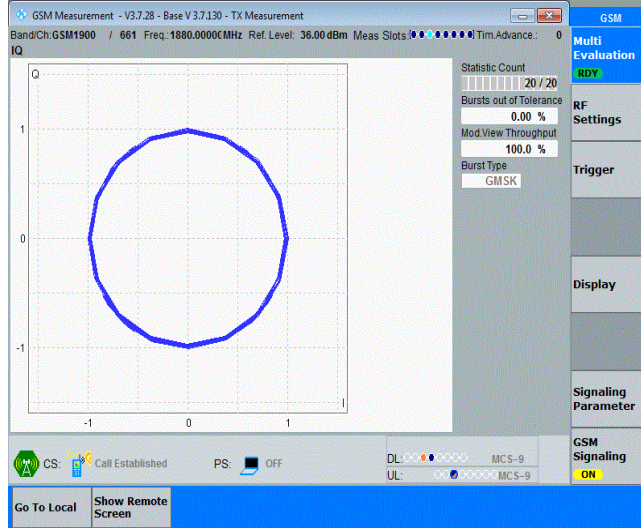


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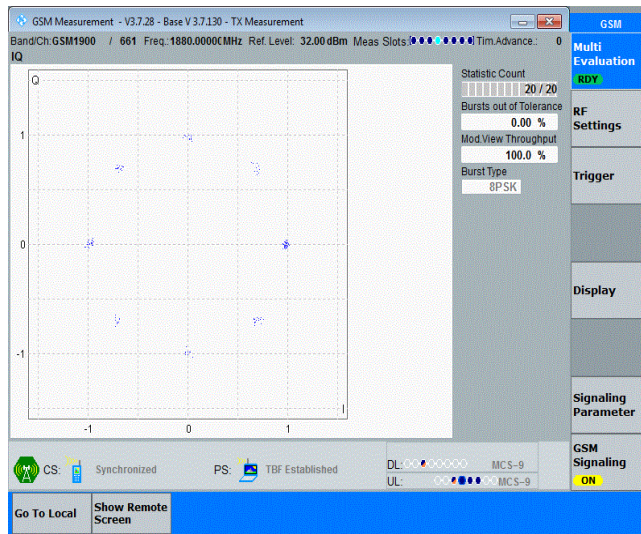
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GSM1900-661



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	0.246	0.32	---	PASS
GSM850	190	0.245	0.32	---	PASS
GSM850	251	0.244	0.32	---	PASS
EGPRS850	128	0.252	0.33	---	PASS
EGPRS850	190	0.251	0.31	---	PASS
EGPRS850	251	0.249	0.32	---	PASS
GSM1900	512	0.245	0.32	---	PASS
GSM1900	661	0.245	0.32	---	PASS
GSM1900	810	0.246	0.31	---	PASS
EGPRS1900	512	0.246	0.32	---	PASS
EGPRS1900	661	0.246	0.32	---	PASS
EGPRS1900	810	0.245	0.32	---	PASS

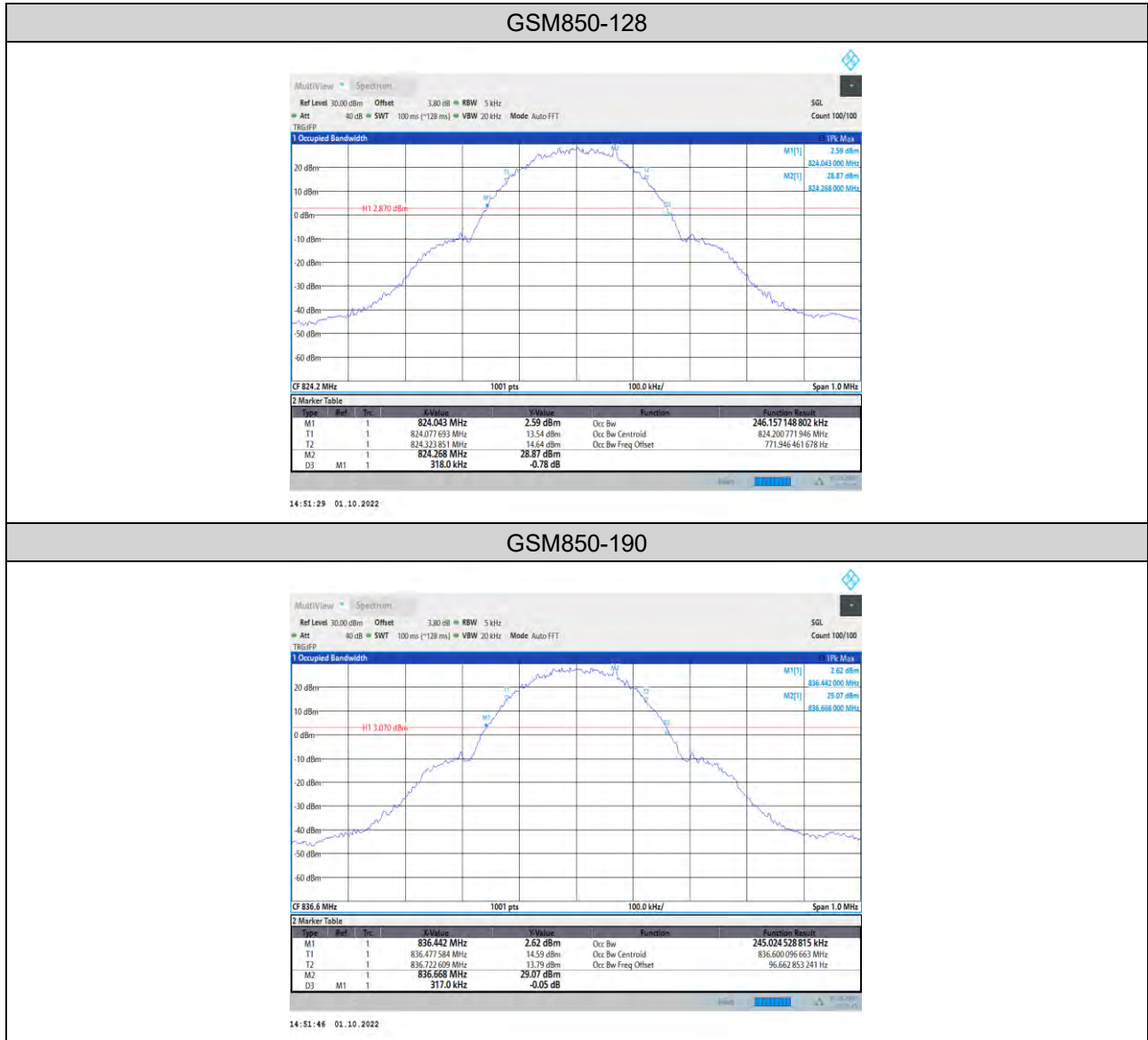


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Test Graphs



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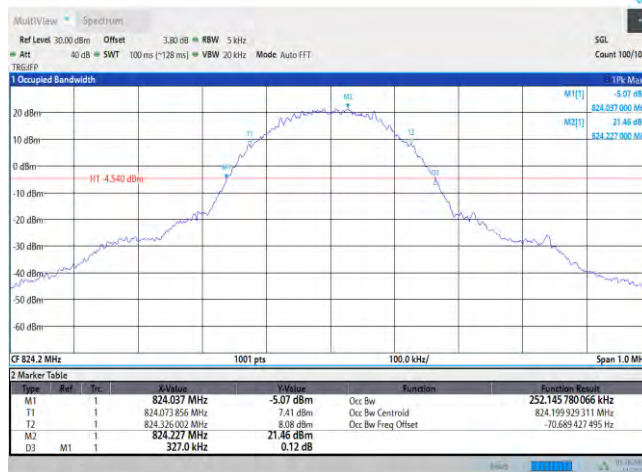
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GSM850-251



14:52:03 01.10.2022

EGPRS850-128



14:58:18 01.10.2022



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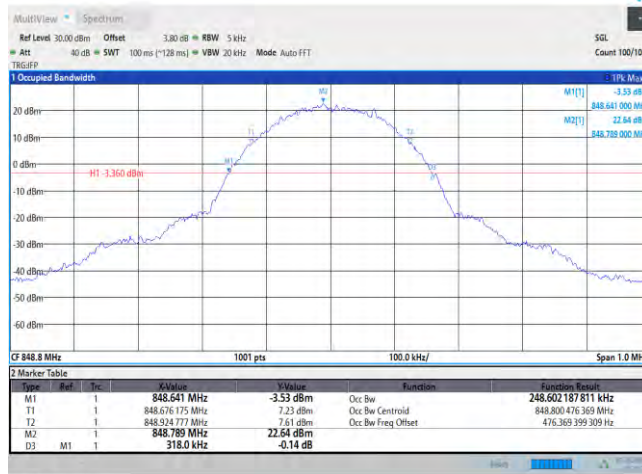
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EGPRS850-190



14:58:35 01.10.2022

EGPRS850-251



14:58:54 01.10.2022



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GSM1900-512



15-01-56 01.10.2022

GSM1900-661



15-02-13 01.10.2022

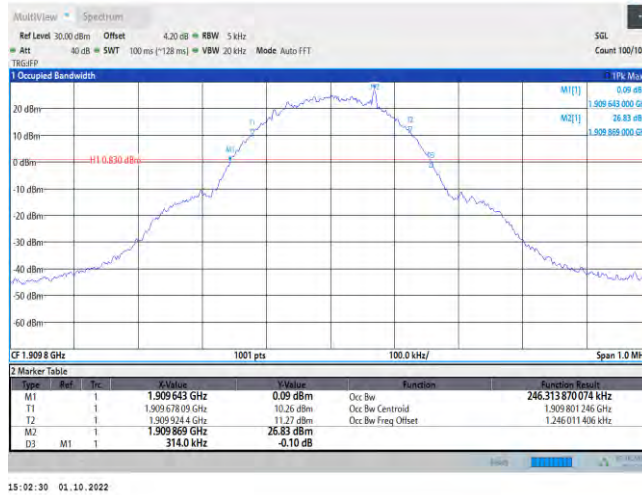


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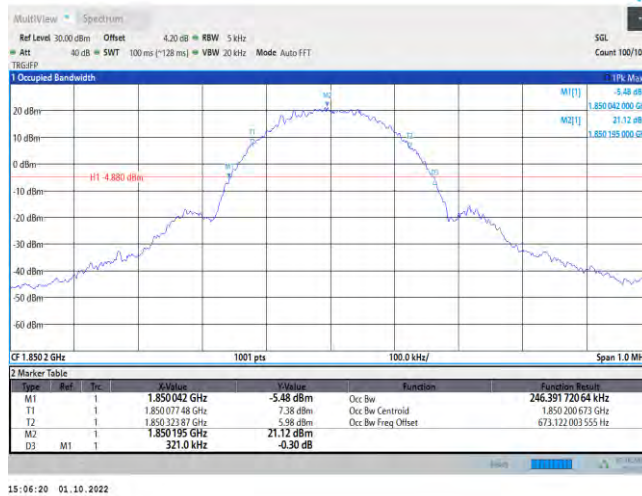
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15:02:30 01.10.2022

EGPRS1900-512



15:06:20 01.10.2022

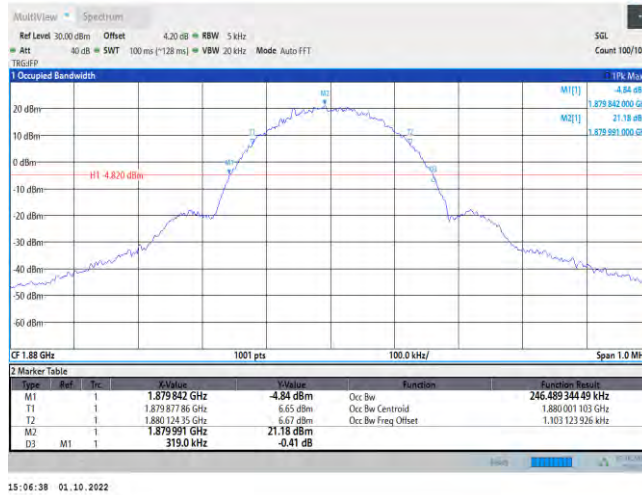


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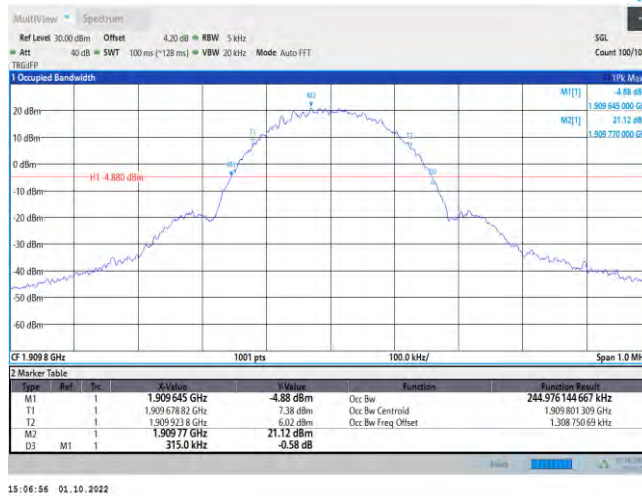
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EGPRS1900-661



15:06:38 01.10.2022

EGPRS1900-810



15:06:56 01.10.2022



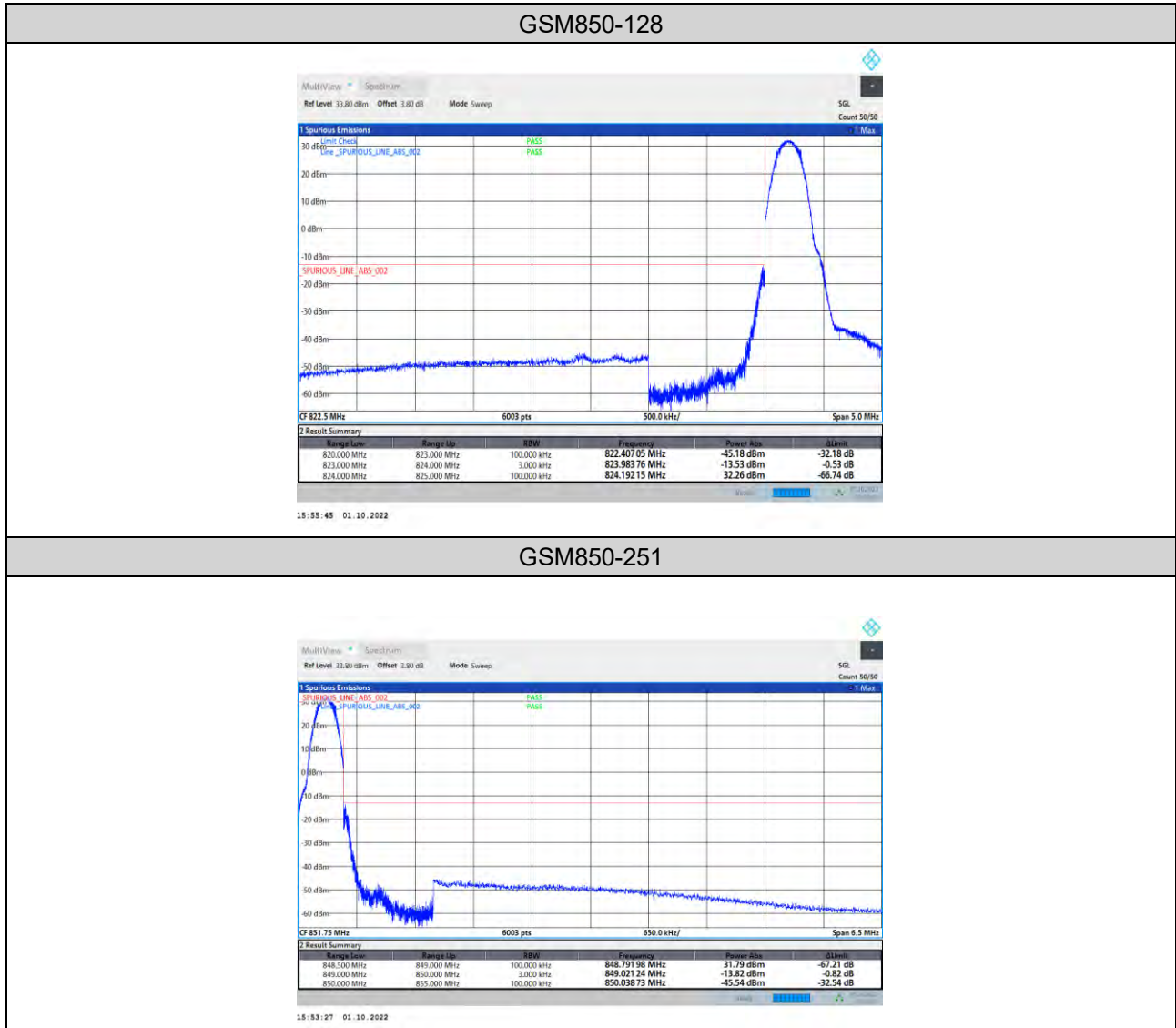
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Band Edge

Test Graphs

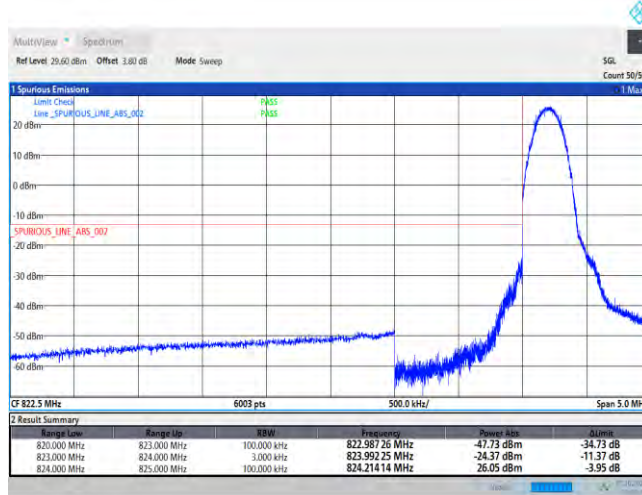


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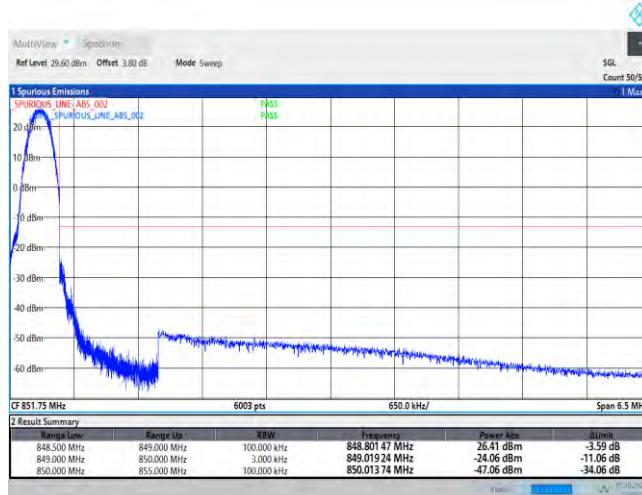
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EGPRS850-128



15:45:23 01.10.2022

EGPRS850-251



15:48:06 01.10.2022

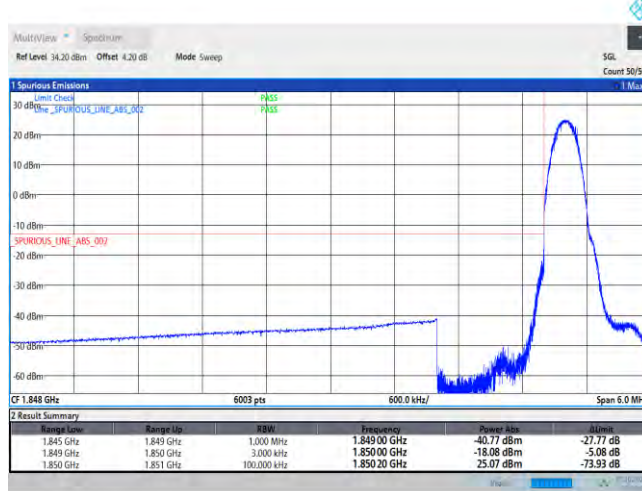


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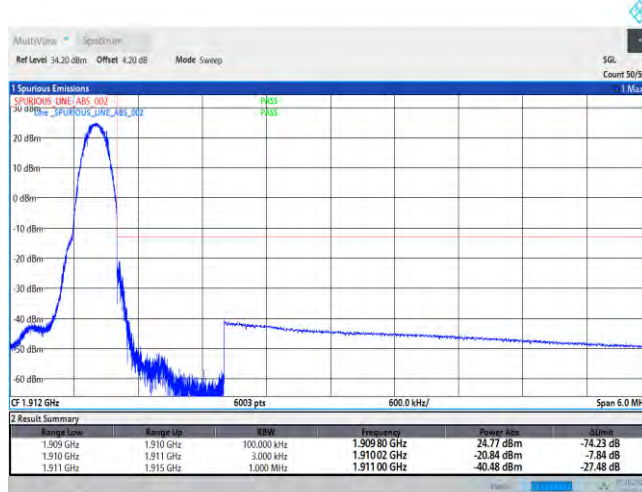
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GSM1900-512



15:59:04 01.10.2022

GSM1900-810



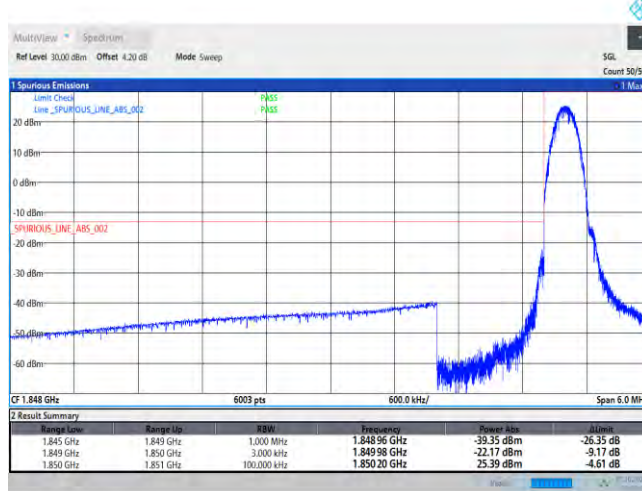
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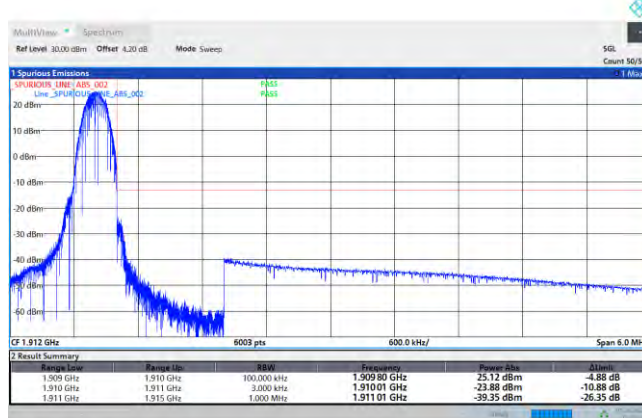
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15:39:27 01.10.2022

EGPRS1900-810



15:42:27 01.10.2022



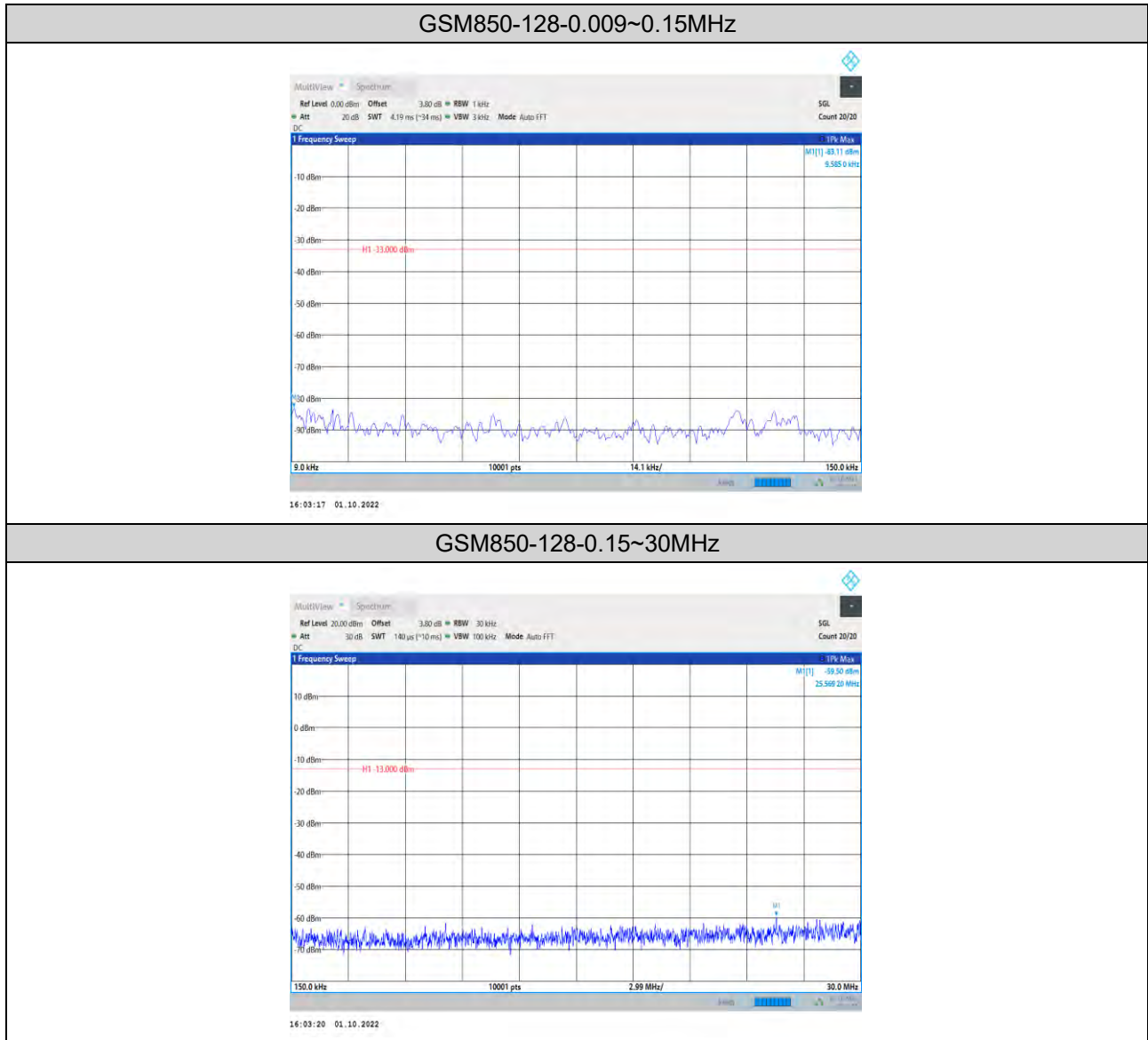
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Conducted Spurious Emission

Test Graphs

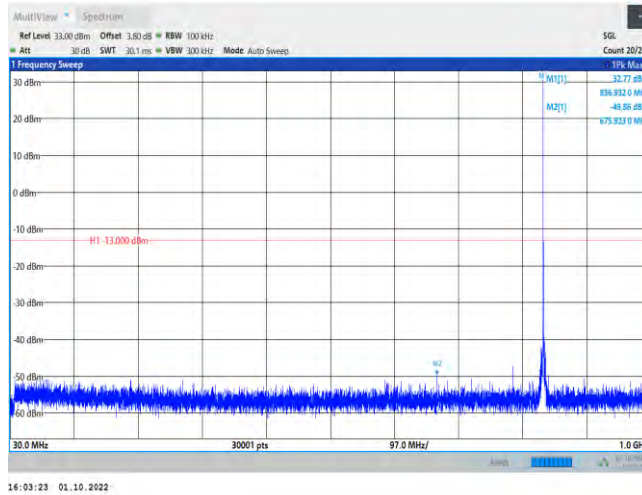


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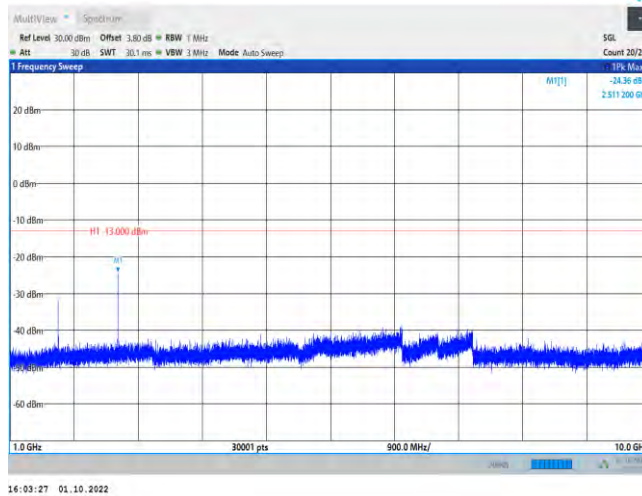
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GSM850-128-30~1000MHz



16-03-23 01.10.2022

GSM850-128-1000~10000MHz



16-03-27 01.10.2022

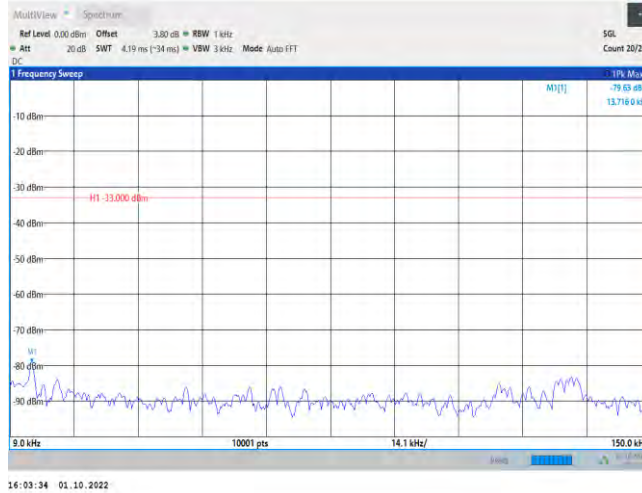


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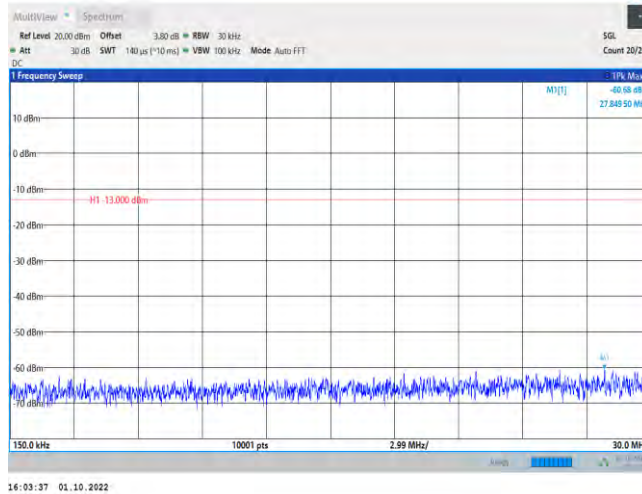
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GSM850-190-0.009~0.15MHz



16:03:34 01.10.2022

GSM850-190-0.15~30MHz



16:03:37 01.10.2022

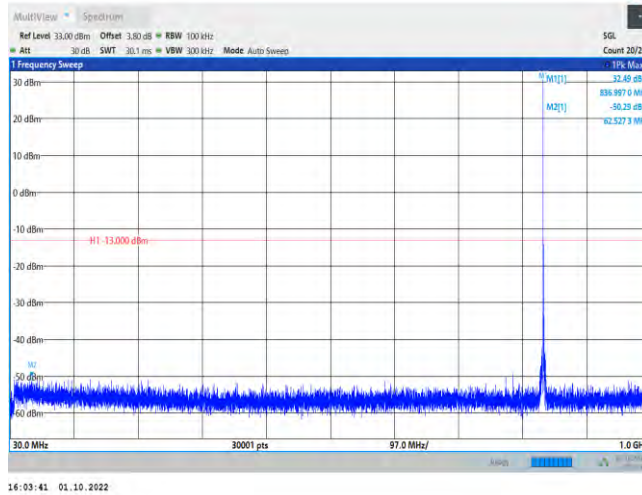


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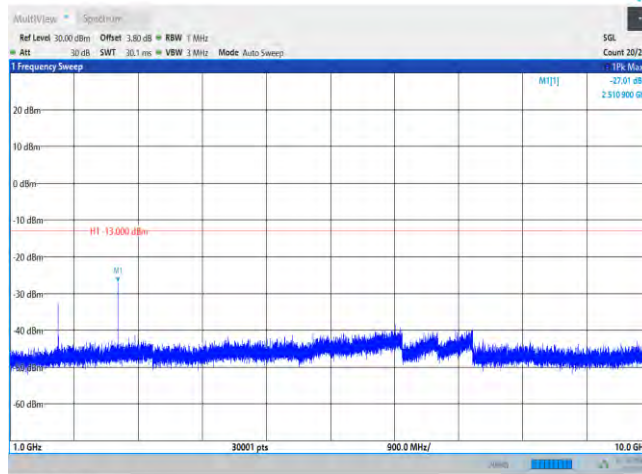
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GSM850-190-30~1000MHz



16-03-41 01.10.2022

GSM850-190-1000~10000MHz



16-03-45 01.10.2022

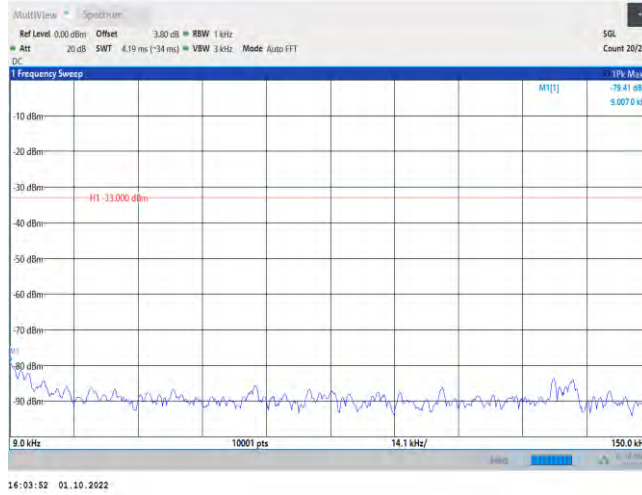


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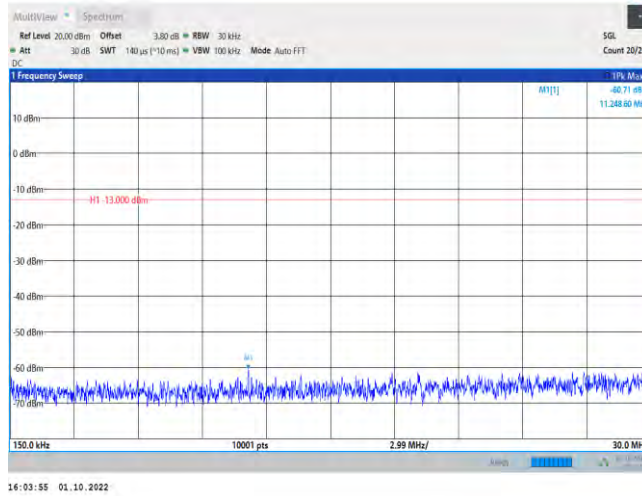
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GSM850-251-0.009~0.15MHz



16:03:52 01.10.2022

GSM850-251-0.15~30MHz



16:03:55 01.10.2022

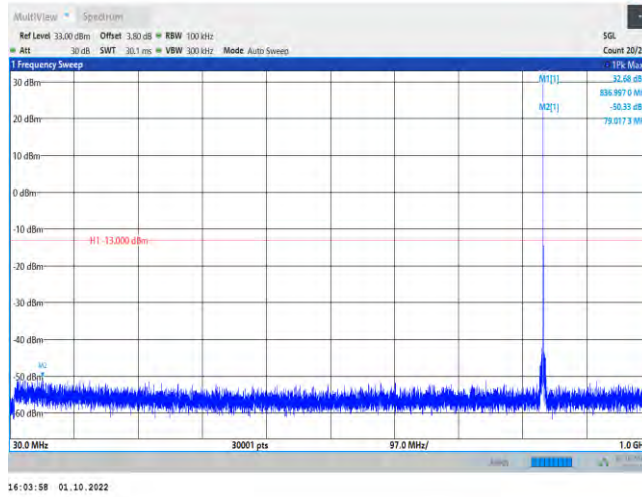


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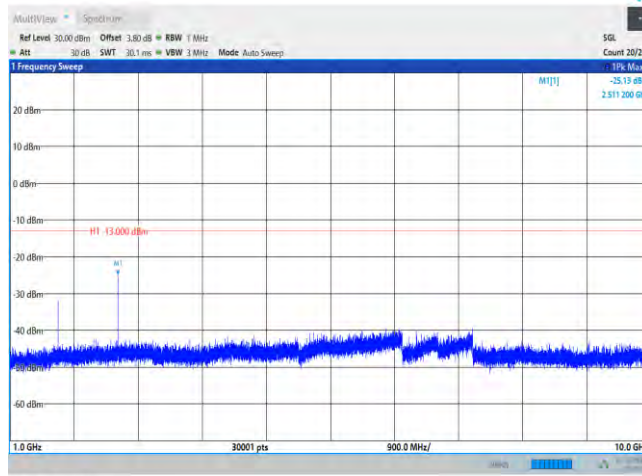
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GSM850-251-30~1000MHz



16:03:58 01.10.2022

GSM850-251-1000~10000MHz



16:04:02 01.10.2022

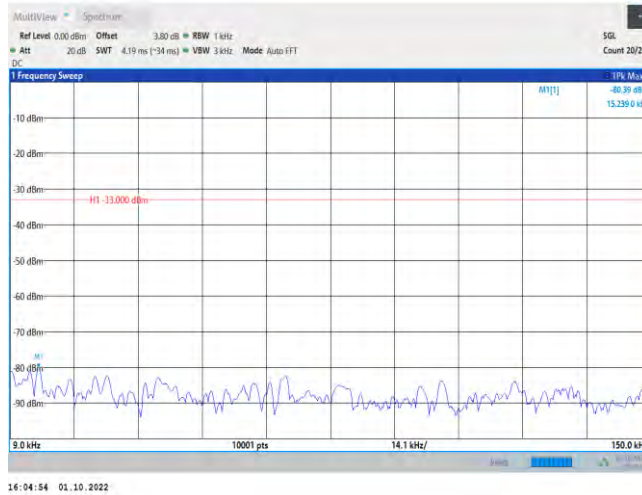


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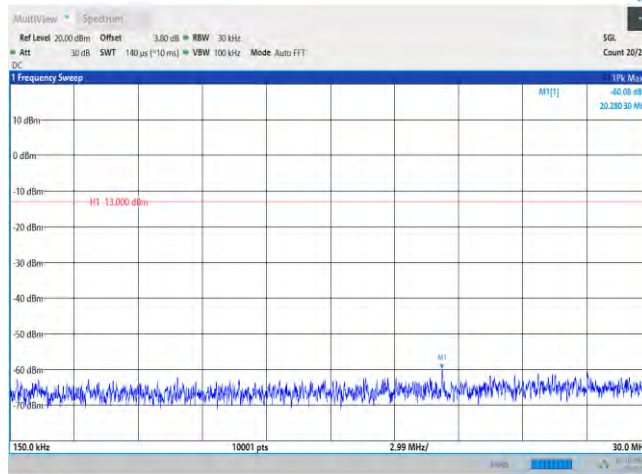
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EGPRS850-128-0.009~0.15MHz



16:04:54 01.10.2022

EGPRS850-128-0.15~30MHz



16:04:57 01.10.2022

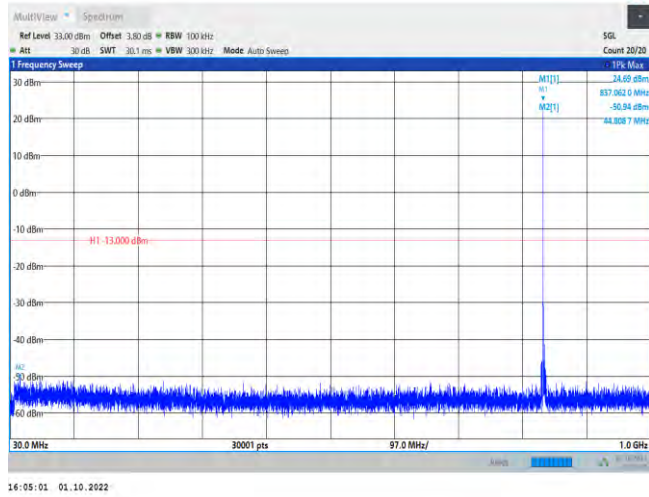


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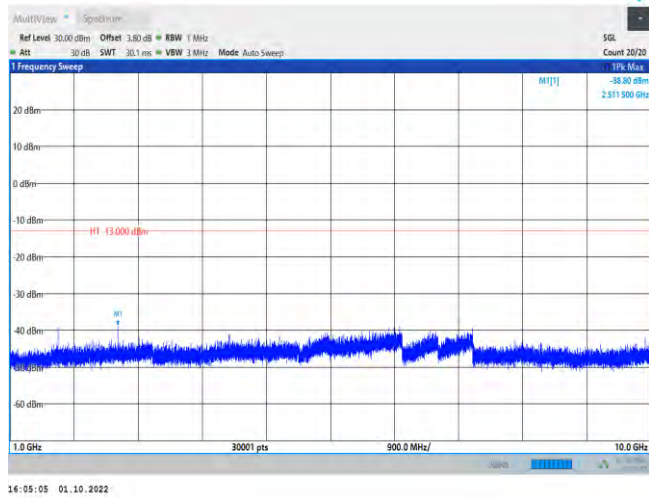
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EGPRS850-128-30~1000MHz



16-05-01 01.10.2022

EGPRS850-128-1000~10000MHz



16-05-05 01.10.2022

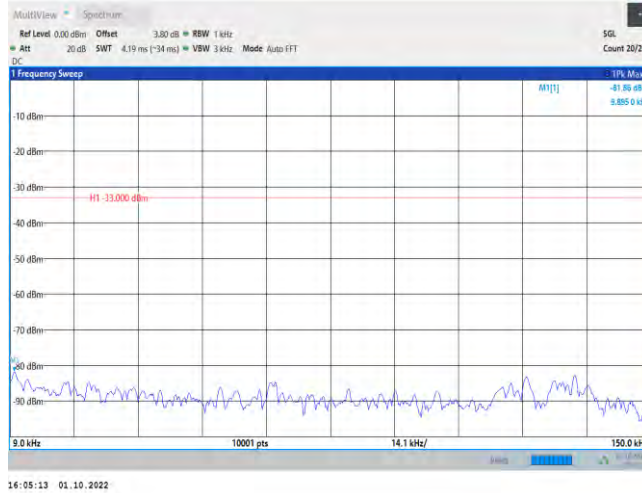


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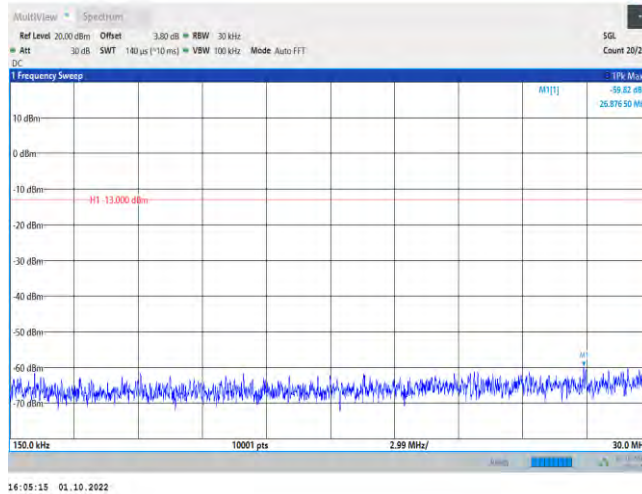
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EGPRS850-190-0.009~0.15MHz



16:05:13 01.10.2022

EGPRS850-190-0.15~30MHz



16:05:15 01.10.2022

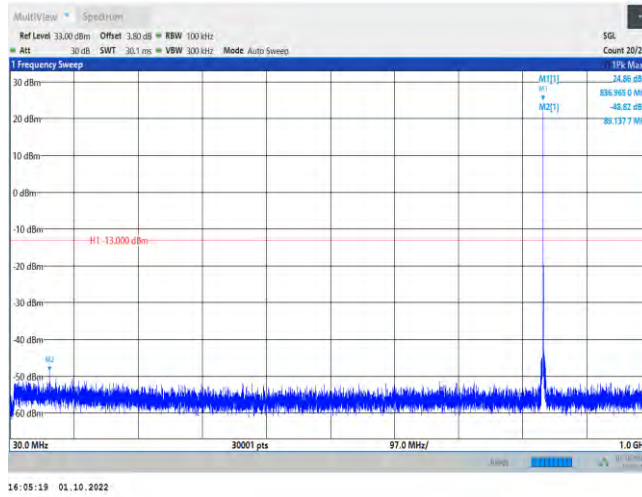


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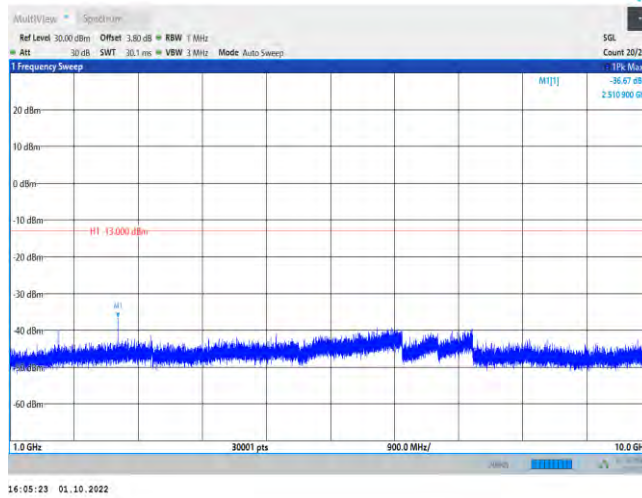
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EGPRS850-190-30~1000MHz



16-05-19 01.10.2022

EGPRS850-190-1000~10000MHz



16-05-23 01.10.2022

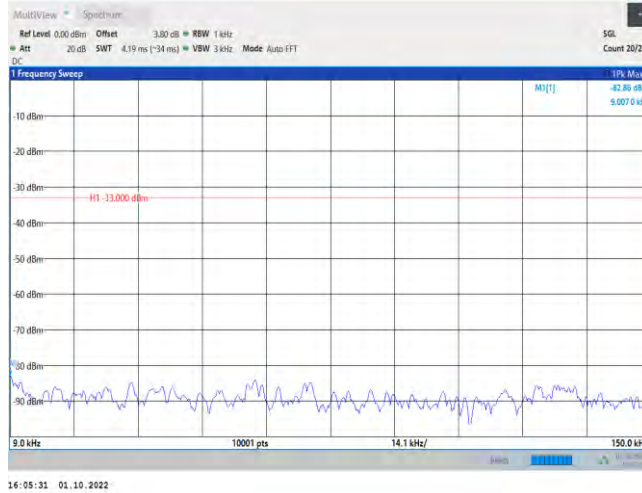


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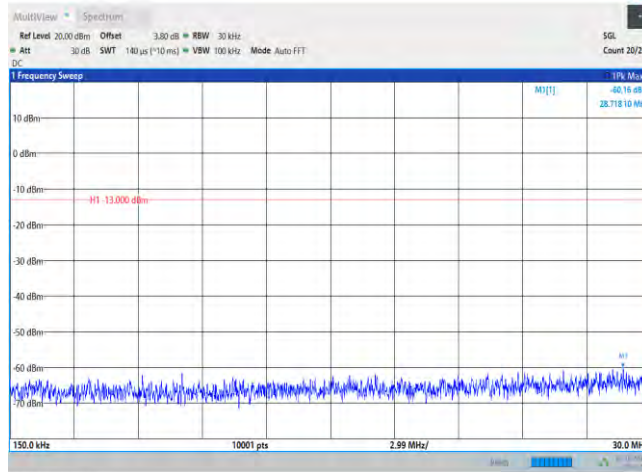
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EGPRS850-251-0.009~0.15MHz



16:05:31 01.10.2022

EGPRS850-251-0.15~30MHz



16:05:34 01.10.2022

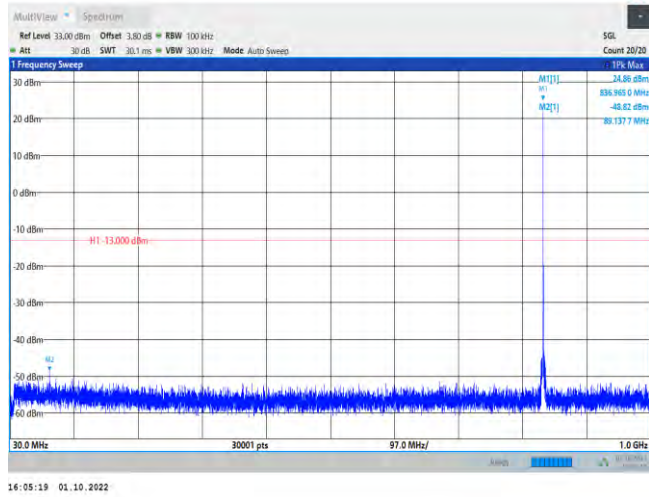


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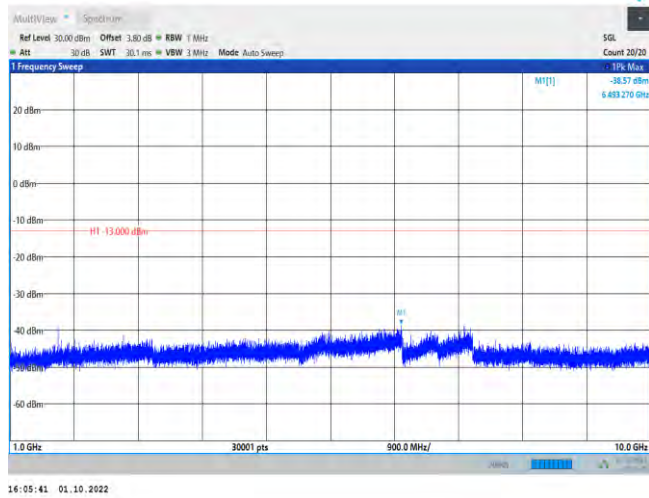
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EGPRS850-251-30~1000MHz



16:05:19 01.10.2022

EGPRS850-251-1000~10000MHz



16:05:41 01.10.2022

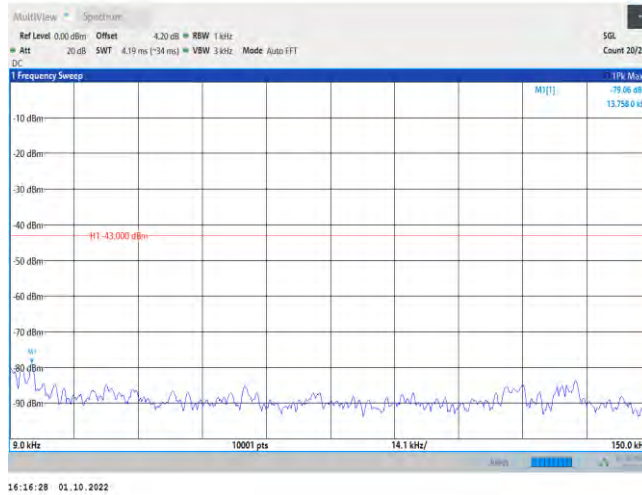


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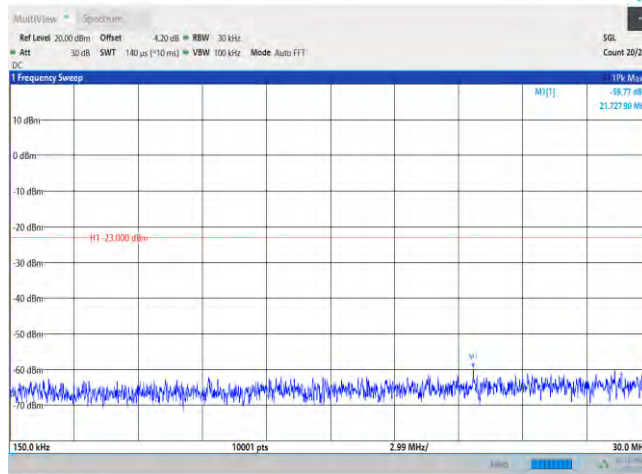
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GSM1900-512-0.009~0.15MHz



16:16:28 01.10.2022

GSM1900-512-0.15~30MHz



16:16:31 01.10.2022

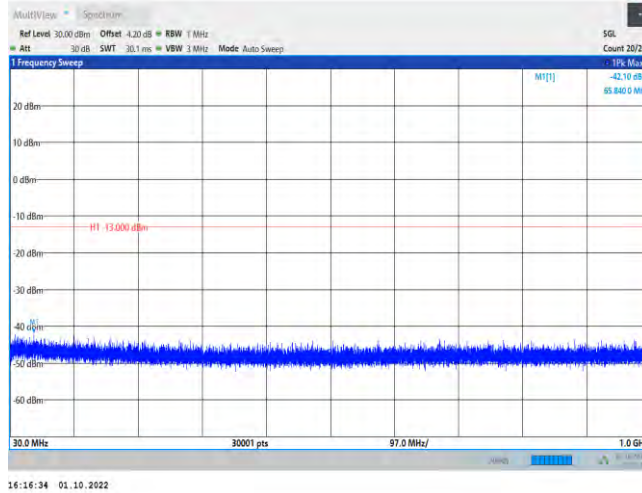


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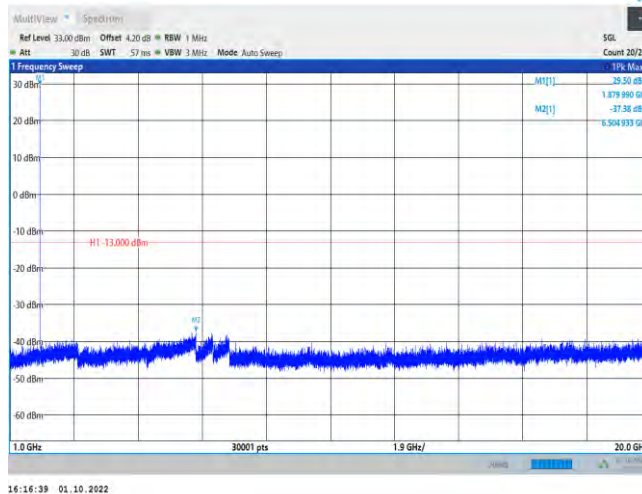
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GSM1900-512-30~1000MHz



16:16:34 01.10.2022

GSM1900-512-1000~20000MHz



16:16:39 01.10.2022

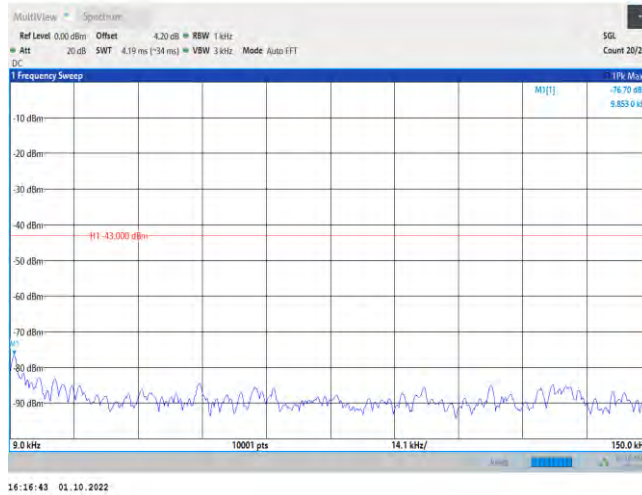


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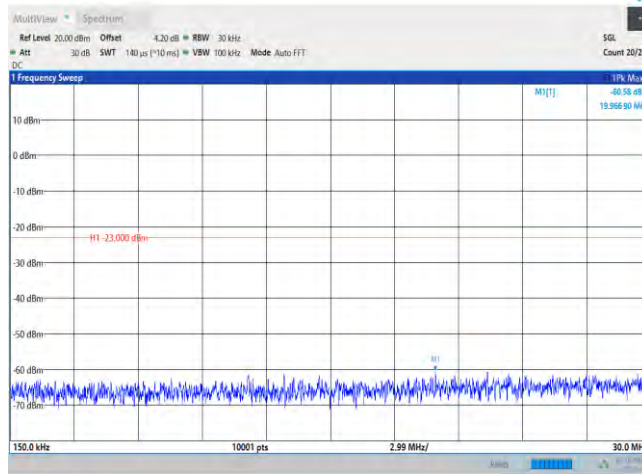
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GSM1900-661-0.009~0.15MHz



16:16:43 01.10.2022

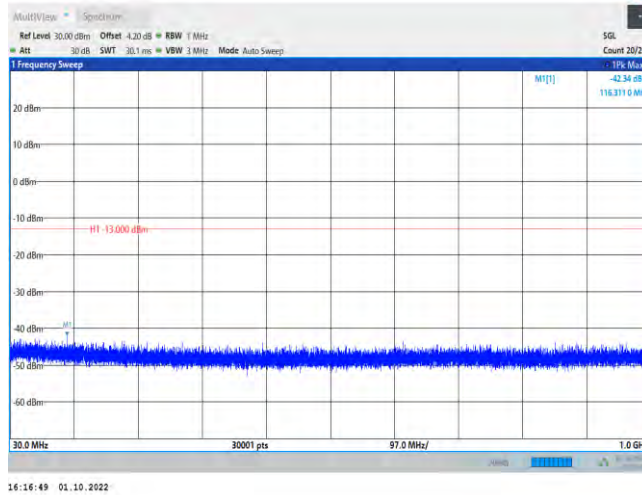
GSM1900-661-0.15~30MHz



16:16:46 01.10.2022

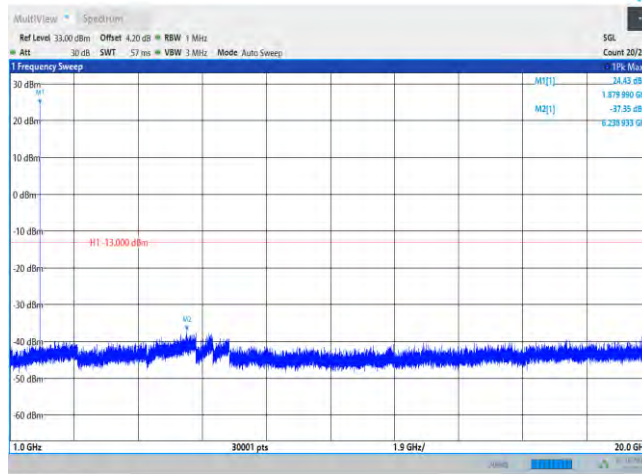


GSM1900-661-30~1000MHz



16:16:49 01.10.2022

GSM1900-661-1000~20000MHz



16:18:31 01.10.2022

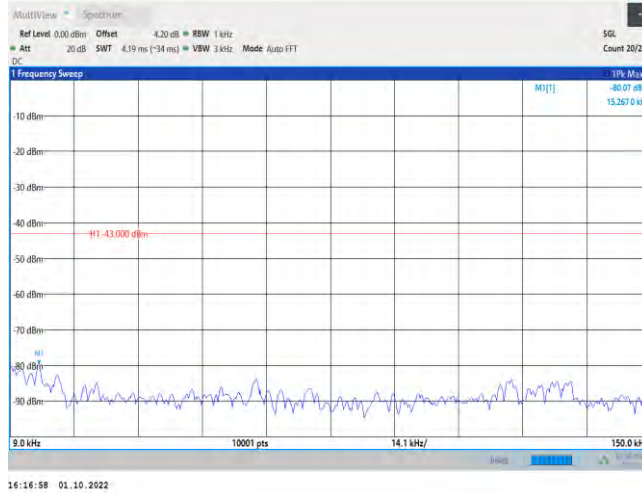


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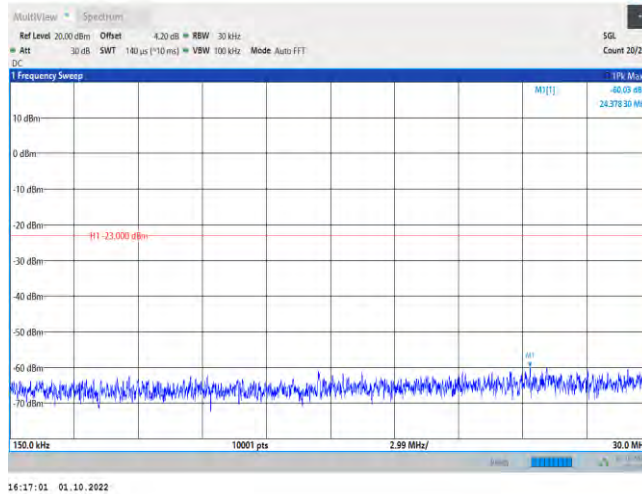
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GSM1900-810-0.009~0.15MHz



16:16:58 01.10.2022

GSM1900-810-0.15~30MHz



16:17:01 01.10.2022

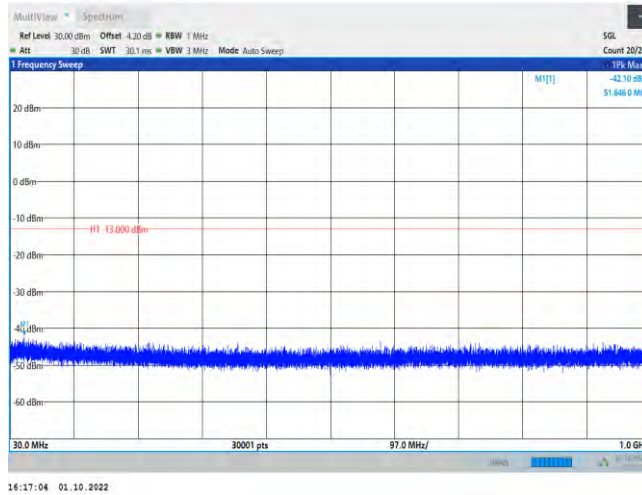


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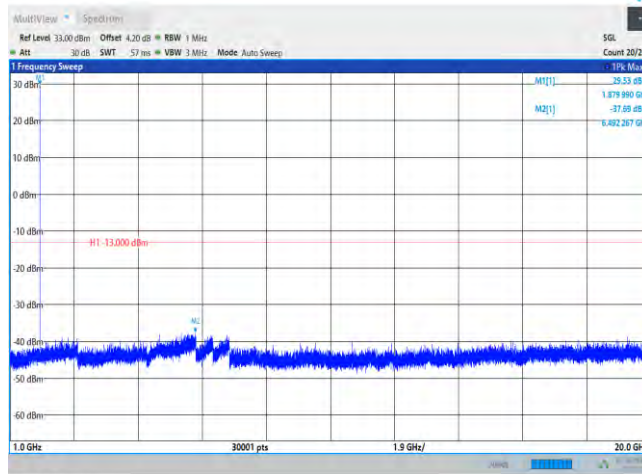
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GSM1900-810-30~1000MHz



16:17:04 01.10.2022

GSM1900-810-1000~20000MHz



16:17:10 01.10.2022

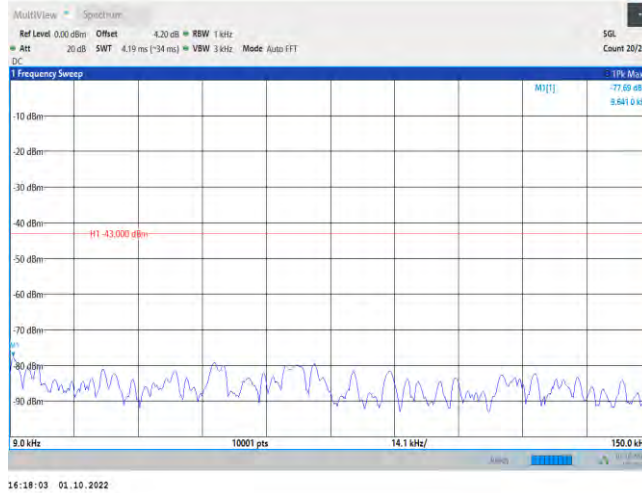


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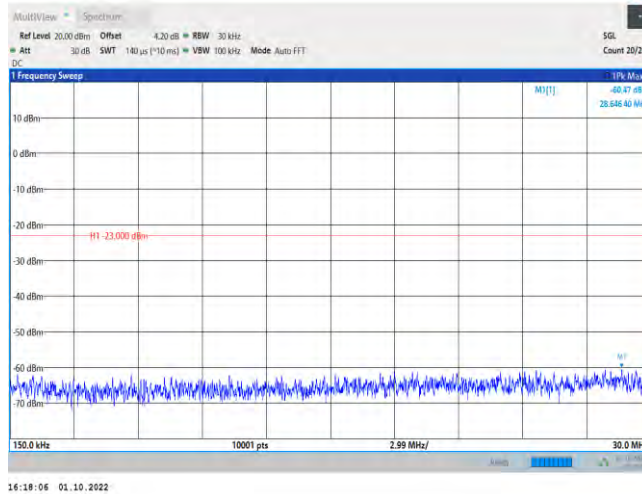
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EGPRS1900-512-0.009~0.15MHz



16:18:03 01.10.2022

EGPRS1900-512-0.15~30MHz



16:18:06 01.10.2022

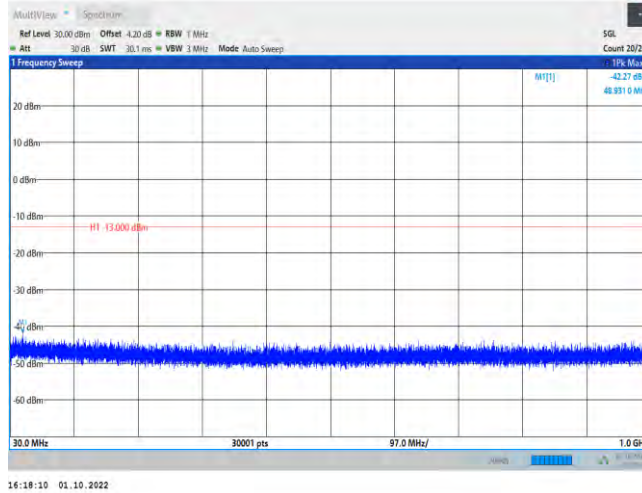


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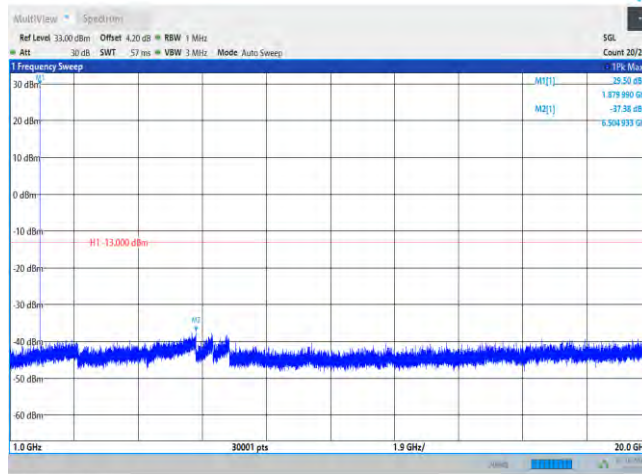
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EGPRS1900-512-30~1000MHz



16:18:10 01.10.2022

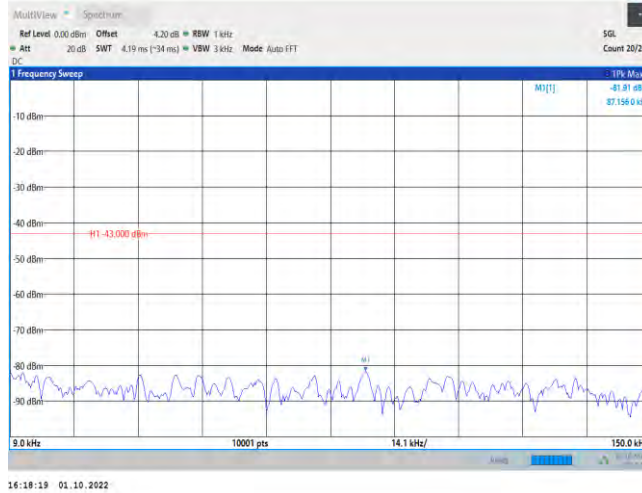
EGPRS1900-512-1000~20000MHz



16:16:39 01.10.2022

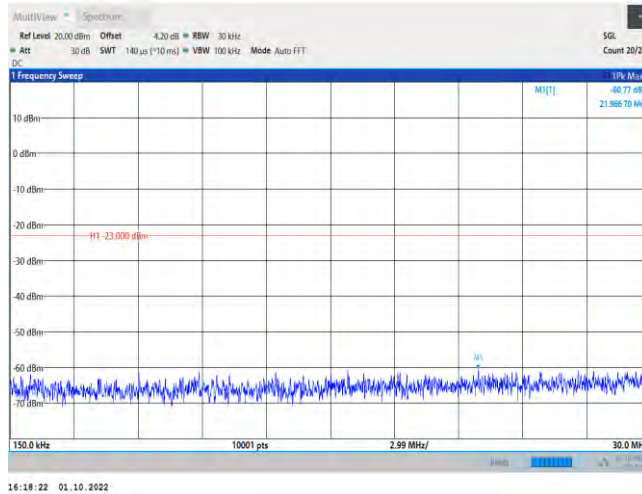


EGPRS1900-661-0.009~0.15MHz



16:18:19 01.10.2022

EGPRS1900-661-0.15~30MHz



16:18:22 01.10.2022

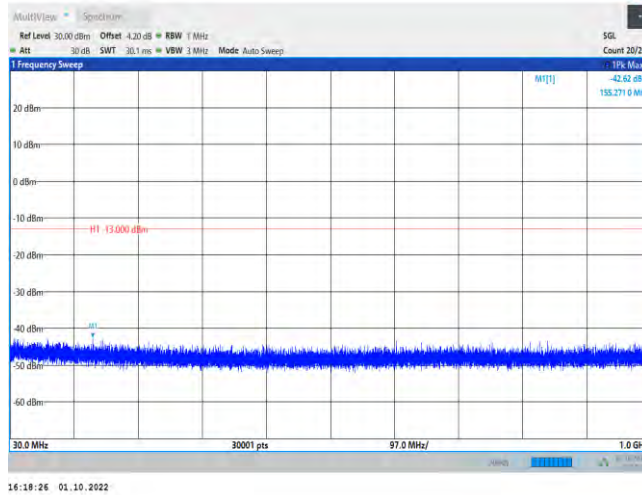


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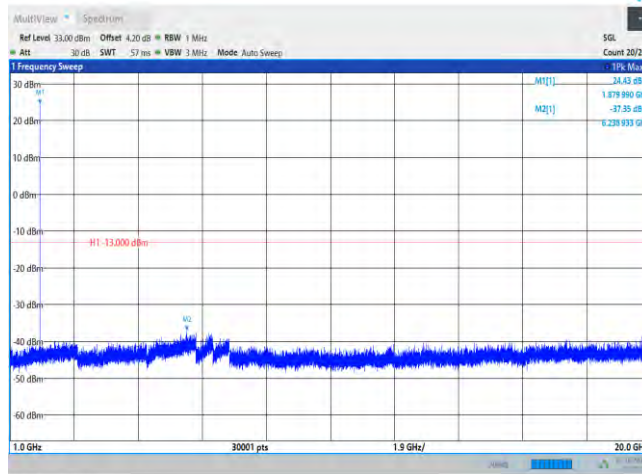
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EGPRS1900-661-30~1000MHz



16:18:26 01.10.2022

EGPRS1900-661-1000~20000MHz



16:18:31 01.10.2022

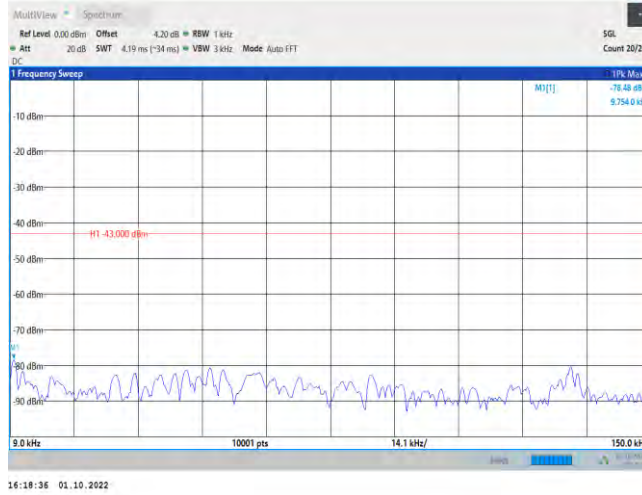


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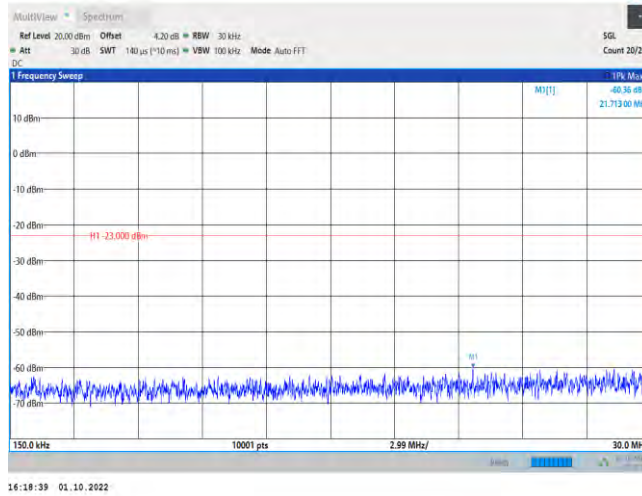
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EGPRS1900-810-0.009~0.15MHz



16:18:36 01.10.2022

EGPRS1900-810-0.15~30MHz



16:18:39 01.10.2022

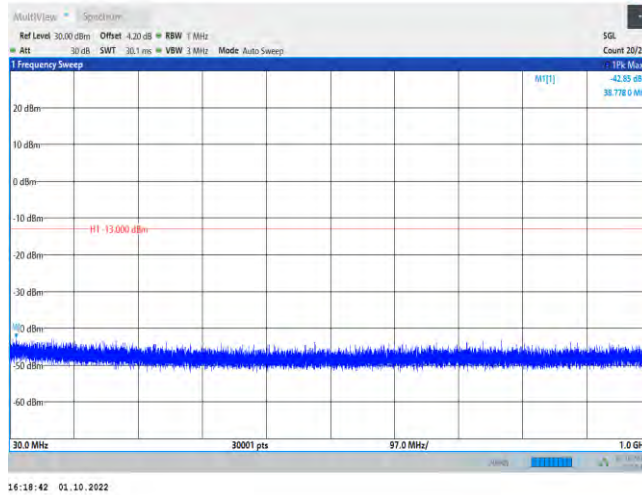


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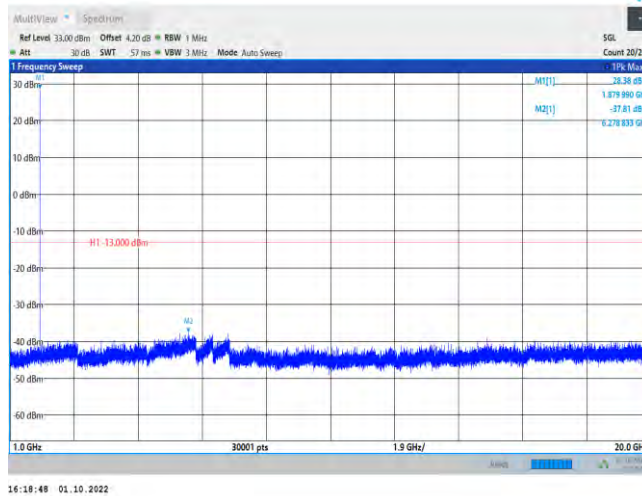
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EGPRS1900-810-30~1000MHz



16:18:42 01.10.2022

EGPRS1900-810-1000~20000MHz



16:18:48 01.10.2022



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Field Strength of Spurious Radiation

Test Band = GSM 850 ANT 0

Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4	52.51	-48.38	25.58	-65.56	-13.00	52.56	163	195	Horizontal
2	2472.6	50.29	-46.96	27.85	-64.08	-13.00	51.08	215	148	Horizontal
3	3296.8	50.02	-46.11	29.48	-61.87	-13.00	48.87	142	186	Horizontal
4	4121	48.26	-45.34	30.80	-61.55	-13.00	48.55	185	0	Horizontal
5	4945.2	47.78	-45.09	32.47	-60.10	-13.00	47.10	196	32	Horizontal
6	5769.4	49.50	-43.53	33.46	-55.82	-13.00	42.82	226	178	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4	52.93	-48.38	25.58	-65.14	-13.00	52.14	163	138	Vertical
2	2472.6	51.28	-46.96	27.85	-63.09	-13.00	50.09	197	271	Vertical
3	3296.8	49.68	-46.11	29.48	-62.21	-13.00	49.21	114	360	Vertical
4	4121	49.29	-45.34	30.80	-60.52	-13.00	47.52	116	356	Vertical
5	4945.2	48.50	-45.09	32.47	-59.38	-13.00	46.38	256	215	Vertical
6	5769.4	49.51	-43.53	33.46	-55.81	-13.00	42.81	237	360	Vertical



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Test Band = GSM 850 ANT0
Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	52.19	-48.31	25.56	-65.82	-13.00	52.82	163	303	Horizontal
2	2509.2	50.92	-46.79	27.93	-63.20	-13.00	50.20	178	0	Horizontal
3	3345.6	50.43	-46.19	29.46	-61.56	-13.00	48.56	195	56	Horizontal
4	4182	50.62	-45.16	30.89	-58.91	-13.00	45.91	216	241	Horizontal
5	5018.4	47.28	-44.93	32.60	-60.31	-13.00	47.31	227	319	Horizontal
6	5854.8	51.48	-43.34	33.74	-53.38	-13.00	40.38	231	272	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	58.17	-48.31	25.56	-59.84	-13.00	46.84	226	283	Vertical
2	2509.2	51.81	-46.79	27.93	-62.31	-13.00	49.31	215	41	Vertical
3	3345.6	50.00	-46.19	29.46	-61.99	-13.00	48.99	237	212	Vertical
4	4182	48.49	-45.16	30.89	-61.04	-13.00	48.04	159	260	Vertical
5	5018.4	47.99	-44.93	32.60	-59.60	-13.00	46.60	175	205	Vertical
6	5854.8	50.54	-43.34	33.74	-54.32	-13.00	41.32	116	3	Vertical



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Test Band = GSM 850 ANT0_
Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6	58.53	-48.25	25.55	-59.42	-13.00	46.42	119	320	Horizontal
2	2546.4	51.59	-46.98	28.06	-62.59	-13.00	49.59	214	163	Horizontal
3	3395.2	50.95	-46.27	29.44	-61.14	-13.00	48.14	156	31	Horizontal
4	4244	48.86	-45.11	30.99	-60.52	-13.00	47.52	138	210	Horizontal
5	5092.8	48.61	-44.62	32.60	-58.67	-13.00	45.67	179	109	Horizontal
6	5941.6	49.51	-43.35	34.01	-55.09	-13.00	42.09	115	2	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6	58.40	-48.25	25.55	-59.55	-13.00	46.55	163	244	Vertical
2	2546.4	51.26	-46.98	28.06	-62.92	-13.00	49.92	194	260	Vertical
3	3395.2	49.88	-46.27	29.44	-62.21	-13.00	49.21	215	360	Vertical
4	4244	49.64	-45.11	30.99	-59.74	-13.00	46.74	263	260	Vertical
5	5092.8	48.65	-44.62	32.60	-58.63	-13.00	45.63	178	349	Vertical
6	5941.6	50.44	-43.35	34.01	-54.16	-13.00	41.16	214	165	Vertical



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Test Band = GSM 850 ANT1_
Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4	54.52	-48.38	25.58	-63.55	-13.00	50.55	163	132	Horizontal
2	2472.6	51.47	-46.96	27.85	-62.90	-13.00	49.90	178	139	Horizontal
3	3296.8	49.85	-46.11	29.48	-62.04	-13.00	49.04	154	233	Horizontal
4	4121	49.27	-45.34	30.80	-60.54	-13.00	47.54	162	296	Horizontal
5	4945.2	48.25	-45.09	32.47	-59.63	-13.00	46.63	178	256	Horizontal
6	5769.4	48.98	-43.53	33.46	-56.34	-13.00	43.34	196	38	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4	52.50	-48.38	25.58	-65.57	-13.00	52.57	163	357	Vertical
2	2472.6	51.59	-46.96	27.85	-62.78	-13.00	49.78	215	360	Vertical
3	3296.8	50.04	-46.11	29.48	-61.85	-13.00	48.85	226	80	Vertical
4	4121	49.13	-45.34	30.80	-60.68	-13.00	47.68	178	140	Vertical
5	4945.2	49.23	-45.09	32.47	-58.65	-13.00	45.65	195	103	Vertical
6	5769.4	50.71	-43.53	33.46	-54.61	-13.00	41.61	216	18	Vertical



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Test Band = GSM 850 ANT1_
Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	51.84	-48.31	25.56	-66.17	-13.00	53.17	214	217	Horizontal
2	2509.2	52.19	-46.79	27.93	-61.93	-13.00	48.93	156	357	Horizontal
3	3345.6	50.18	-46.19	29.46	-61.81	-13.00	48.81	197	38	Horizontal
4	4182	48.14	-45.16	30.89	-61.39	-13.00	48.39	236	0	Horizontal
5	5018.4	48.15	-44.93	32.60	-59.44	-13.00	46.44	228	0	Horizontal
6	5854.8	49.50	-43.34	33.74	-55.36	-13.00	42.36	264	0	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	52.81	-48.31	25.56	-65.20	-13.00	52.20	169	119	Vertical
2	2509.2	51.26	-46.79	27.93	-62.86	-13.00	49.86	215	260	Vertical
3	3345.6	50.63	-46.19	29.46	-61.36	-13.00	48.36	226	103	Vertical
4	4182	48.89	-45.16	30.89	-60.64	-13.00	47.64	178	10	Vertical
5	5018.4	48.46	-44.93	32.60	-59.13	-13.00	46.13	193	359	Vertical
6	5854.8	49.97	-43.34	33.74	-54.89	-13.00	41.89	154	360	Vertical



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Test Band = GSM 850 ANT1_
Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6	65.29	-48.25	25.55	-52.66	-13.00	39.66	163	357	Horizontal
2	2546.4	52.26	-46.98	28.06	-61.92	-13.00	48.92	198	265	Horizontal
3	3395.2	50.98	-46.27	29.44	-61.11	-13.00	48.11	215	219	Horizontal
4	4244	49.31	-45.11	30.99	-60.07	-13.00	47.07	224	280	Horizontal
5	5092.8	48.81	-44.62	32.60	-58.47	-13.00	45.47	175	63	Horizontal
6	5941.6	49.81	-43.35	34.01	-54.79	-13.00	41.79	183	219	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6	61.17	-48.25	25.55	-56.78	-13.00	43.78	163	359	Vertical
2	2546.4	51.64	-46.98	28.06	-62.54	-13.00	49.54	159	3	Vertical
3	3395.2	50.78	-46.27	29.44	-61.31	-13.00	48.31	214	306	Vertical
4	4244	50.22	-45.11	30.99	-59.16	-13.00	46.16	226	149	Vertical
5	5092.8	50.06	-44.62	32.60	-57.22	-13.00	44.22	175	102	Vertical
6	5941.6	50.13	-43.35	34.01	-54.47	-13.00	41.47	129	252	Vertical



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Test Band = GSM 1900 ANT0_
Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4	48.26	-45.70	29.88	-62.82	-13.00	49.82	163	86	Horizontal
2	5550.6	48.25	-43.87	32.76	-58.12	-13.00	45.12	152	360	Horizontal
3	7400.8	46.81	-41.98	36.44	-53.99	-13.00	40.99	197	148	Horizontal
4	9251	44.01	-38.39	38.57	-51.07	-13.00	38.07	192	171	Horizontal
5	11101.2	39.27	-35.37	39.50	-51.87	-13.00	38.87	215	86	Horizontal
6	12951.4	39.47	-34.89	39.55	-51.13	-13.00	38.13	226	360	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4	47.25	-45.70	29.88	-63.83	-13.00	50.83	223	292	Vertical
2	5550.6	48.74	-43.87	32.76	-57.63	-13.00	44.63	142	281	Vertical
3	7400.8	46.06	-41.98	36.44	-54.74	-13.00	41.74	187	317	Vertical
4	9251	45.27	-38.39	38.57	-49.81	-13.00	36.81	196	360	Vertical
5	11101.2	39.53	-35.37	39.50	-51.61	-13.00	38.61	253	99	Vertical
6	12951.4	38.87	-34.89	39.55	-51.73	-13.00	38.73	261	329	Vertical



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Test Band = GSM 1900 ANT0_
Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	49.73	-45.54	30.03	-61.04	-13.00	48.04	221	14	Horizontal
2	5640	48.27	-43.81	33.05	-57.75	-13.00	44.75	163	293	Horizontal
3	7520	46.67	-41.53	36.54	-53.58	-13.00	40.58	195	113	Horizontal
4	9400	42.77	-38.16	38.56	-52.09	-13.00	39.09	261	113	Horizontal
5	11280	39.12	-35.28	39.32	-52.10	-13.00	39.10	227	318	Horizontal
6	13160	39.34	-34.68	39.70	-50.90	-13.00	37.90	185	356	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	48.91	-45.54	30.03	-61.86	-13.00	48.86	159	279	Vertical
2	5640	48.20	-43.81	33.05	-57.82	-13.00	44.82	214	110	Vertical
3	7520	47.91	-41.53	36.54	-52.34	-13.00	39.34	256	328	Vertical
4	9400	43.76	-38.16	38.56	-51.10	-13.00	38.10	261	3	Vertical
5	11280	39.87	-35.28	39.32	-51.35	-13.00	38.35	218	279	Vertical
6	13160	39.96	-34.68	39.70	-50.28	-13.00	37.28	221	122	Vertical



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Test Band = GSM 1900 ANT0_
Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3189.75	52.44	-45.62	29.52	-58.91	-13.00	45.91	261	224	Horizontal
2	3819.6	49.88	-45.44	30.17	-60.65	-13.00	47.65	214	286	Horizontal
3	7639.2	46.77	-41.29	36.78	-53.00	-13.00	40.00	223	40	Horizontal
4	9549	41.72	-38.13	38.55	-53.12	-13.00	40.12	195	360	Horizontal
5	11458.8	39.31	-35.27	39.14	-52.07	-13.00	39.07	175	40	Horizontal
6	13368.6	39.21	-35.13	39.82	-51.36	-13.00	38.36	116	296	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3231.75	51.66	-45.68	29.51	-59.77	-13.00	46.77	163	358	Vertical
2	3819.6	49.04	-45.44	30.17	-61.49	-13.00	48.49	175	360	Vertical
3	7639.2	46.92	-41.29	36.78	-52.85	-13.00	39.85	184	88	Vertical
4	9549	42.62	-38.13	38.55	-52.22	-13.00	39.22	162	223	Vertical
5	11458.8	40.50	-35.27	39.14	-50.88	-13.00	37.88	114	27	Vertical
6	13368.6	40.42	-35.13	39.82	-50.15	-13.00	37.15	157	223	Vertical



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Test Band = GSM 1900 ANT1_
Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4	47.08	-45.70	29.88	-64.00	-13.00	51.00	116	122	Horizontal
2	5550.6	49.72	-43.87	32.76	-56.65	-13.00	43.65	192	291	Horizontal
3	7400.8	46.05	-41.98	36.44	-54.75	-13.00	41.75	175	3	Horizontal
4	9251	43.16	-38.39	38.57	-51.92	-13.00	38.92	251	219	Horizontal
5	11101.2	38.09	-35.37	39.50	-53.05	-13.00	40.05	226	219	Horizontal
6	12951.4	40.36	-34.89	39.55	-50.24	-13.00	37.24	172	25	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4	46.89	-45.70	29.88	-64.19	-13.00	51.19	223	360	Vertical
2	5550.6	48.84	-43.87	32.76	-57.53	-13.00	44.53	162	3	Vertical
3	7400.8	47.90	-41.98	36.44	-52.90	-13.00	39.90	175	38	Vertical
4	9251	43.80	-38.39	38.57	-51.28	-13.00	38.28	189	221	Vertical
5	11101.2	39.36	-35.37	39.50	-51.78	-13.00	38.78	145	26	Vertical
6	12951.4	39.60	-34.89	39.55	-51.00	-13.00	38.00	224	320	Vertical



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Test Band = GSM 1900 ANT1_
Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	47.19	-45.54	30.03	-63.58	-13.00	50.58	163	148	Horizontal
2	5640	48.32	-43.81	33.05	-57.70	-13.00	44.70	215	88	Horizontal
3	7520	47.11	-41.53	36.54	-53.14	-13.00	40.14	281	360	Horizontal
4	9400	43.05	-38.16	38.56	-51.81	-13.00	38.81	154	174	Horizontal
5	11280	39.59	-35.28	39.32	-51.63	-13.00	38.63	116	63	Horizontal
6	13160	37.93	-34.68	39.70	-52.31	-13.00	39.31	197	174	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	47.69	-45.54	30.03	-63.08	-13.00	50.08	163	257	Vertical
2	5640	48.78	-43.81	33.05	-57.24	-13.00	44.24	216	359	Vertical
3	7520	48.88	-41.53	36.54	-51.37	-13.00	38.37	227	351	Vertical
4	9400	44.00	-38.16	38.56	-50.86	-13.00	37.86	241	330	Vertical
5	11280	39.65	-35.28	39.32	-51.57	-13.00	38.57	259	160	Vertical
6	13160	38.17	-34.68	39.70	-52.07	-13.00	39.07	263	148	Vertical



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Test Band = GSM 1900 ANT1_
Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3300	51.89	-45.88	29.48	-59.77	-13.00	46.77	214	15	Horizontal
2	3819.6	48.35	-45.44	30.17	-62.18	-13.00	49.18	231	153	Horizontal
3	7639.2	46.89	-41.29	36.78	-52.88	-13.00	39.88	263	261	Horizontal
4	9549	41.51	-38.13	38.55	-53.33	-13.00	40.33	186	27	Horizontal
5	11458.8	40.54	-35.27	39.14	-50.84	-13.00	37.84	195	335	Horizontal
6	13368.6	38.25	-35.13	39.82	-52.32	-13.00	39.32	174	238	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3126	51.71	-45.85	29.55	-59.85	-13.00	46.85	169	28	Vertical
2	3819.6	49.28	-45.44	30.17	-61.25	-13.00	48.25	215	164	Vertical
3	7639.2	46.19	-41.29	36.78	-53.58	-13.00	40.58	226	115	Vertical
4	9549	41.76	-38.13	38.55	-53.08	-13.00	40.08	178	153	Vertical
5	11458.8	38.72	-35.27	39.14	-52.66	-13.00	39.66	194	347	Vertical
6	13368.6	39.30	-35.13	39.82	-51.27	-13.00	38.27	135	79	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	3.20	0.003825	±2.5	PASS
GSM850	190	VH	NT	8.95	0.010698	±2.5	PASS
EGPRS850	190	VL	NT	26.09	0.031186	±2.5	PASS
EGPRS850	190	VN	NT	24.76	0.029596	±2.5	PASS
EGPRS850	190	VH	NT	23.89	0.028556	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	4.98	0.005953	±2.5	PASS
GSM850	190	NV	-20	8.84	0.010567	±2.5	PASS
GSM850	190	NV	-10	7.85	0.009383	±2.5	PASS
GSM850	190	NV	0	2.33	0.002785	±2.5	PASS
GSM850	190	NV	10	7.17	0.008570	±2.5	PASS
GSM850	190	NV	20	3.76	0.004494	±2.5	PASS
GSM850	190	NV	30	5.64	0.006742	±2.5	PASS
GSM850	190	NV	40	5.17	0.006180	±2.5	PASS
GSM850	190	NV	50	4.97	0.005941	±2.5	PASS



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Voltage						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	15.26	0.008117	PASS
GSM1900	661	VN	NT	13.21	0.007027	PASS
GSM1900	661	VH	NT	14.48	0.007702	PASS
EGPRS1900	661	VL	NT	23.70	0.012606	PASS
EGPRS1900	661	VN	NT	27.51	0.014633	PASS
EGPRS1900	661	VH	NT	24.48	0.013021	PASS

Temperature						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
EGPRS850	190	NV	-30	25.81	0.030851	PASS
EGPRS850	190	NV	-20	25.68	0.030696	PASS
EGPRS850	190	NV	-10	25.83	0.030875	PASS
EGPRS850	190	NV	0	26.54	0.031724	PASS
EGPRS850	190	NV	10	25.97	0.031042	PASS
EGPRS850	190	NV	20	26.19	0.031305	PASS
EGPRS850	190	NV	30	26.91	0.032166	PASS
EGPRS850	190	NV	40	25.56	0.030552	PASS
EGPRS850	190	NV	50	26.25	0.031377	PASS
GSM1900	661	NV	-30	16.39	0.008718	PASS
GSM1900	661	NV	-20	14.79	0.007867	PASS
GSM1900	661	NV	-10	16.39	0.008718	PASS
GSM1900	661	NV	0	14.07	0.007484	PASS
GSM1900	661	NV	10	13.26	0.007053	PASS
GSM1900	661	NV	20	16.37	0.008707	PASS
GSM1900	661	NV	30	13.22	0.007032	PASS
GSM1900	661	NV	40	18.38	0.009777	PASS
GSM1900	661	NV	50	15.57	0.008282	PASS
EGPRS1900	661	NV	-30	24.80	0.013191	PASS
EGPRS1900	661	NV	-20	25.43	0.013527	PASS
EGPRS1900	661	NV	-10	24.81	0.013197	PASS
EGPRS1900	661	NV	0	24.81	0.013197	PASS
EGPRS1900	661	NV	10	25.61	0.013622	PASS
EGPRS1900	661	NV	20	24.28	0.012915	PASS



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EGPRS1900	661	NV	30	23.28	0.012383	PASS
EGPRS1900	661	NV	40	21.23	0.011293	PASS
EGPRS1900	661	NV	50	24.10	0.012819	PASS

---End of Attachment---



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