Appendix B.1

GSM 1900

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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	29.15	29.15	33.00	PASS
GSM1900	661	29.54	29.54	33.00	PASS
GSM1900	810	29.49	29.49	33.00	PASS

Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	25.26	25.26	33.00	PASS
EGPRS1900	512	2	25.14	25.14	33.00	PASS
EGPRS1900	512	3	23.36	23.36	33.00	PASS
EGPRS1900	512	4	22.38	22.38	33.00	PASS
EGPRS1900	661	1	25.48	25.48	33.00	PASS
EGPRS1900	661	2	25.41	25.41	33.00	PASS
EGPRS1900	661	3	23.54	23.54	33.00	PASS
EGPRS1900	661	4	22.46	22.46	33.00	PASS
EGPRS1900	810	1	25.67	25.67	33.00	PASS
EGPRS1900	810	2	25.62	25.62	33.00	PASS
EGPRS1900	810	3	23.63	23.63	33.00	PASS
EGPRS1900	810	4	22.41	22.41	33.00	PASS

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Peak-to-Average Ratio (CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM1900	512	9.44	13	PASS
GSM1900	661	9.52	13	PASS
GSM1900	810	9.44	13	PASS
EGPRS1900	512	12.68	13	PASS
EGPRS1900	661	12.10	13	PASS
EGPRS1900	810	12.12	13	PASS

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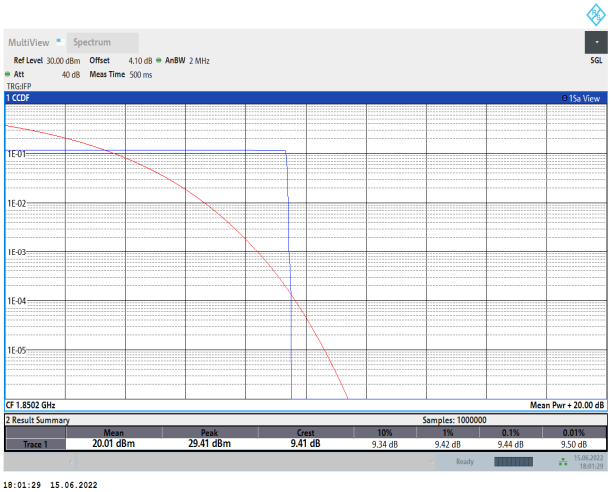
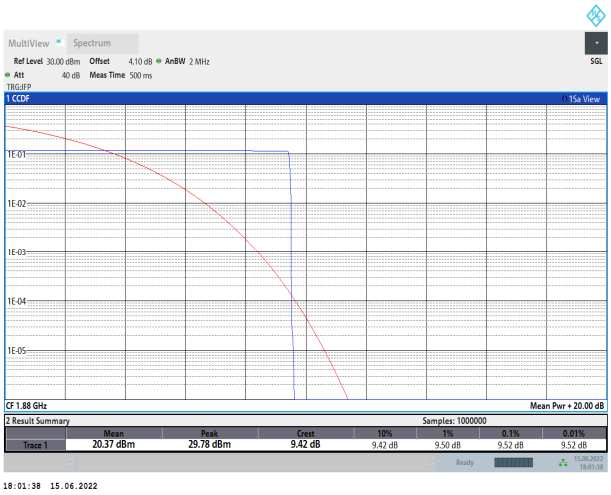
Test Graphs

GSM1900-512



GSM1900-661



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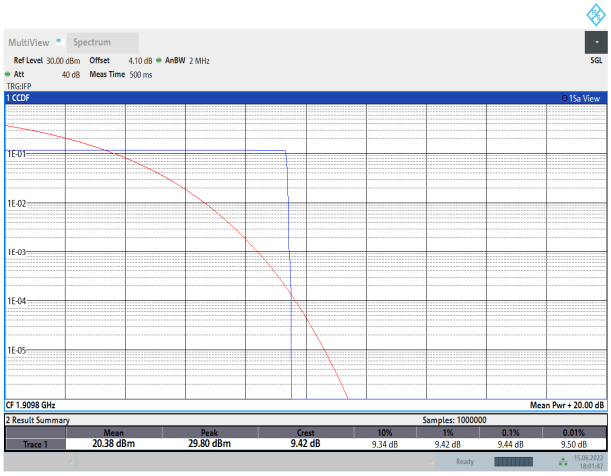
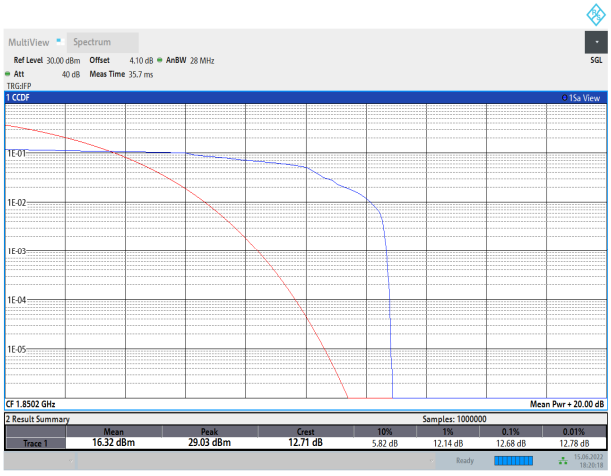
GSM1900-810



EGPRS1900-512



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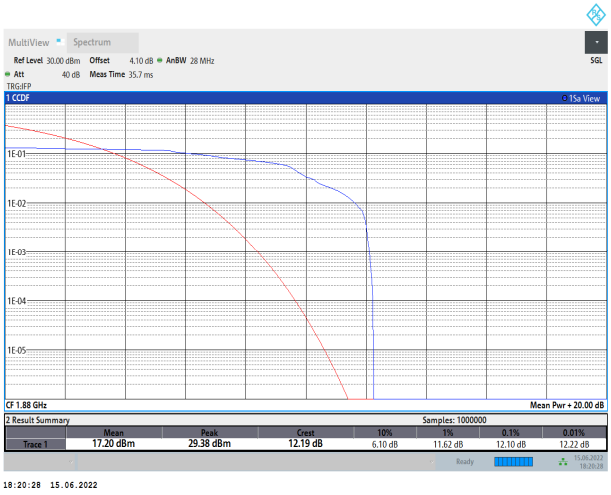
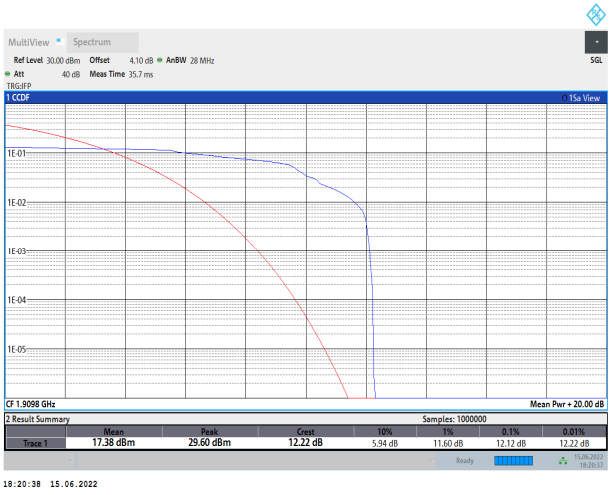
EGPRS1900-661



EGPRS1900-810



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Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
GSM1900	661	PASS	PASS
EGPRS1900	661	PASS	PASS

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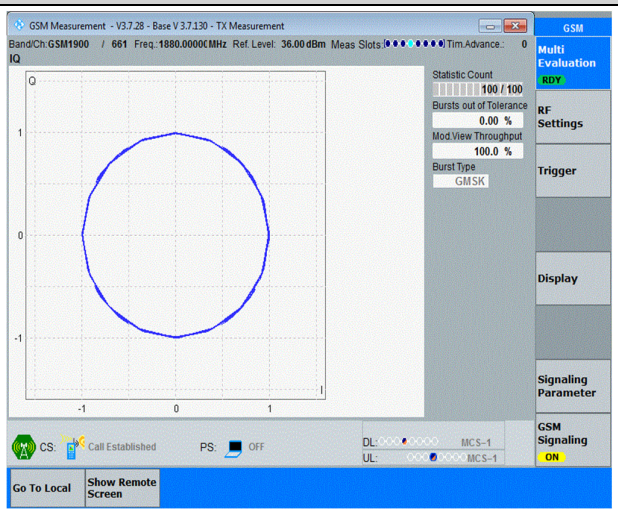
Test Graphs

GSM1900-661

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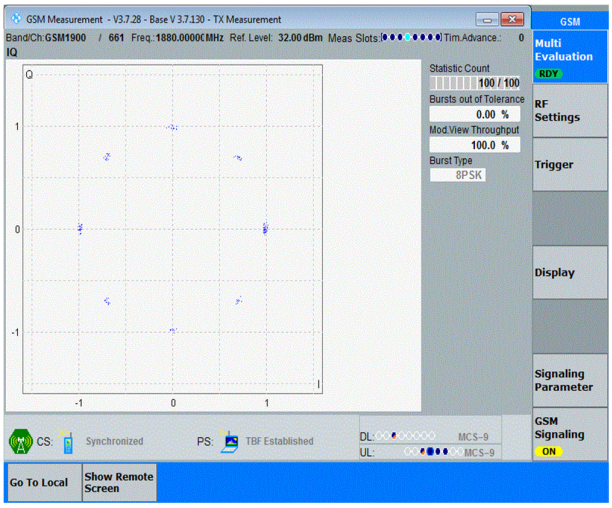

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM1900	512	0.245	0.31	---	PASS
GSM1900	661	0.245	0.32	---	PASS
GSM1900	810	0.246	0.31	---	PASS
EGPRS1900	512	0.244	0.31	---	PASS
EGPRS1900	661	0.244	0.31	---	PASS
EGPRS1900	810	0.244	0.31	---	PASS

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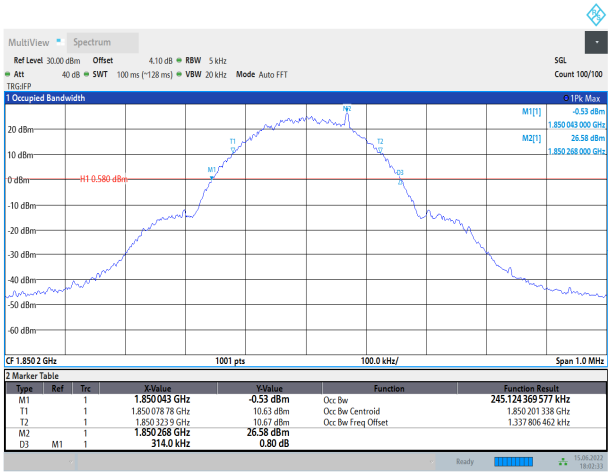
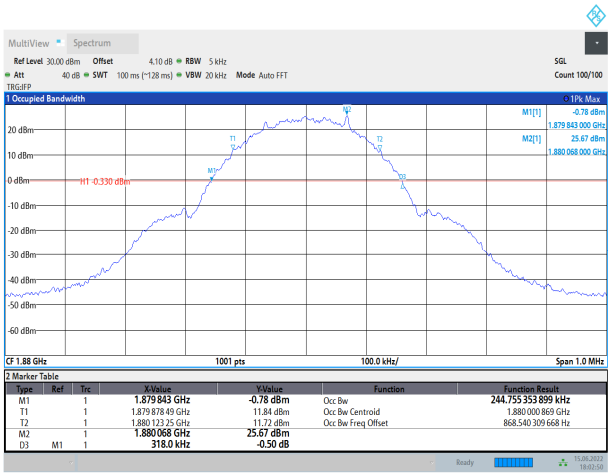
Test Graphs

GSM1900-512



GSM1900-661



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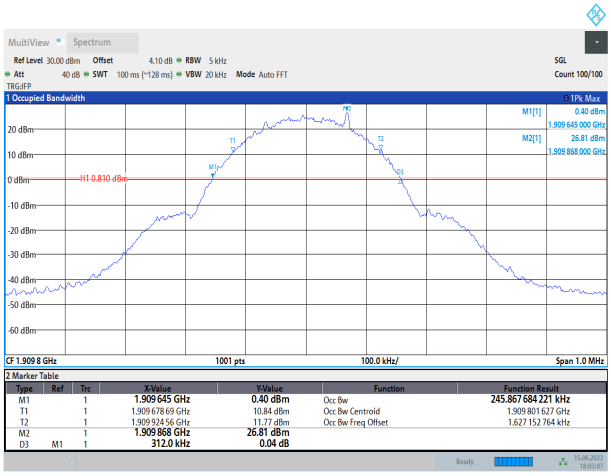
GSM1900-810



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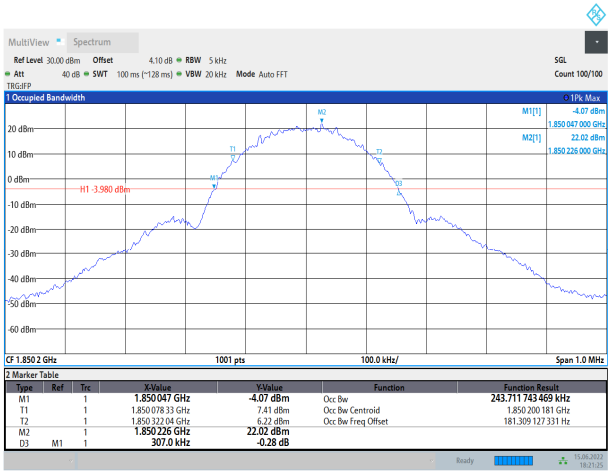
EGPRS1900-512



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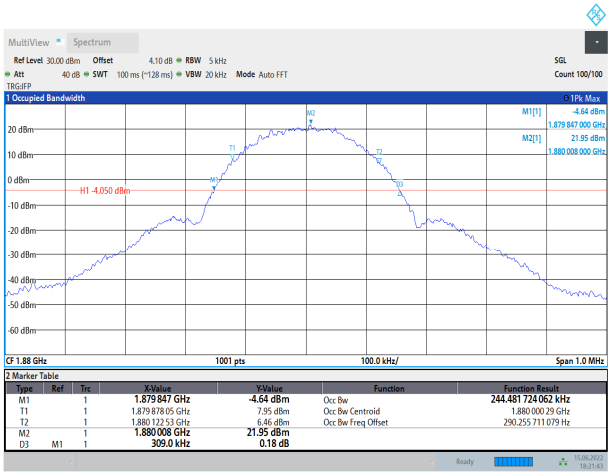
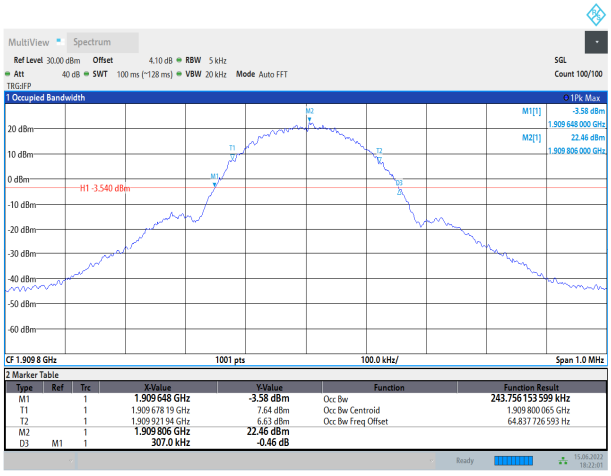
EGPRS1900-661



EGPRS1900-810



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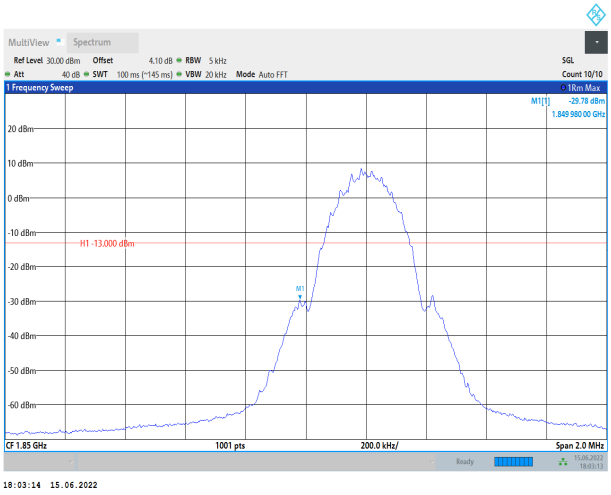
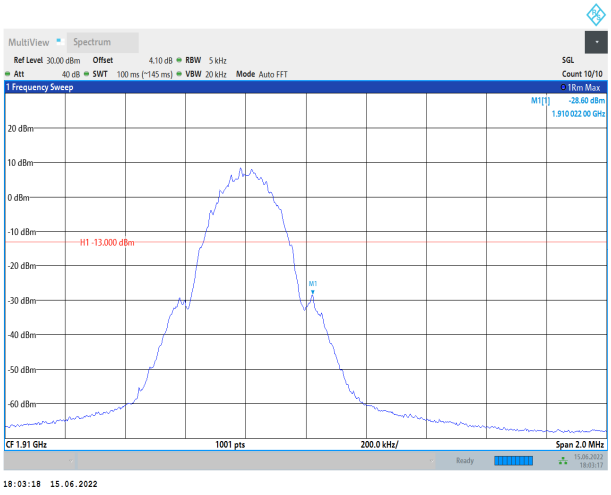
Band Edge

Test Graphs

GSM1900-512



GSM1900-810



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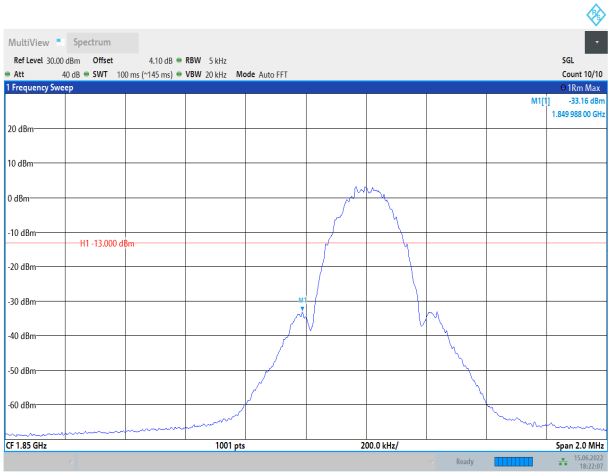
EGPRS1900-512



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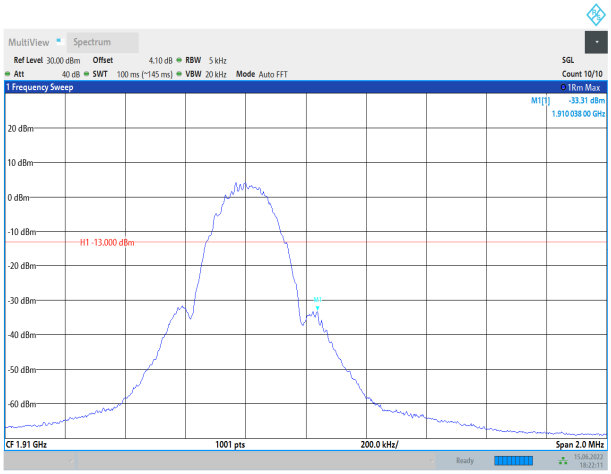
EGPRS1900-810



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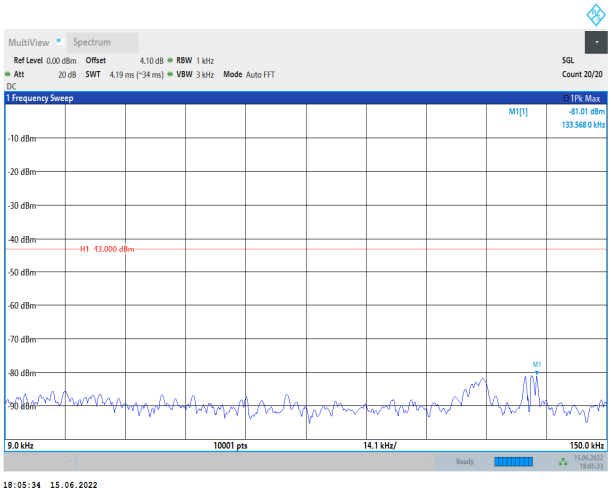
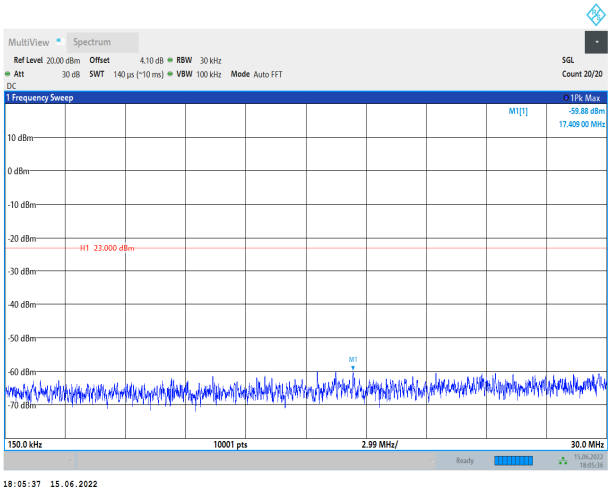
Conducted Spurious Emission

Test Graphs

GSM1900-512-0.009~0.15MHz



GSM1900-512-0.15~30MHz



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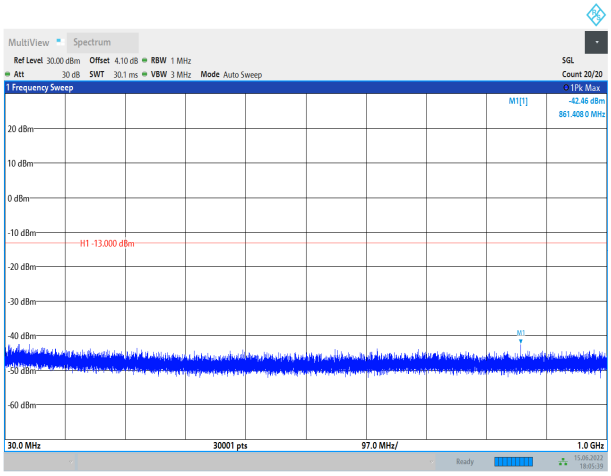
GSM1900-512-30~1000MHz



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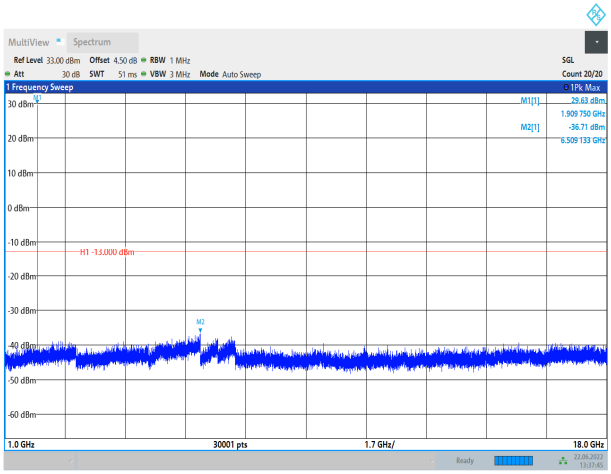
GSM1900-512-1000~18000MHz



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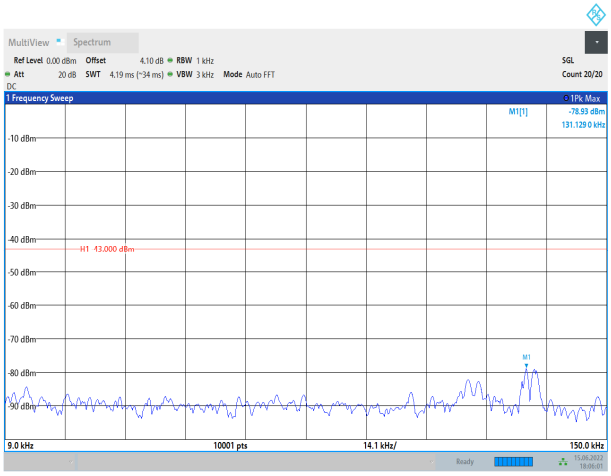
GSM1900-661-0.009~0.15MHz



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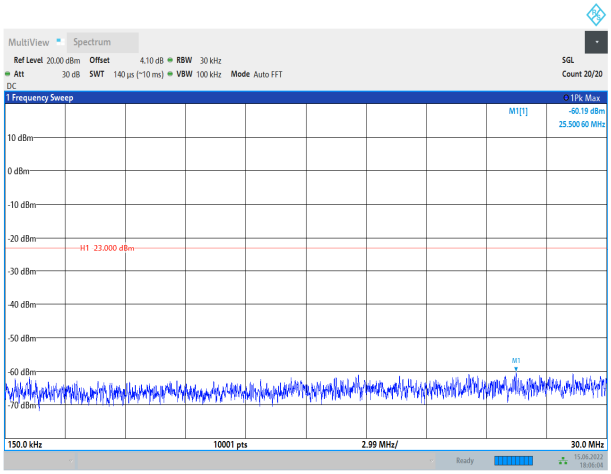
GSM1900-661-0.15~30MHz



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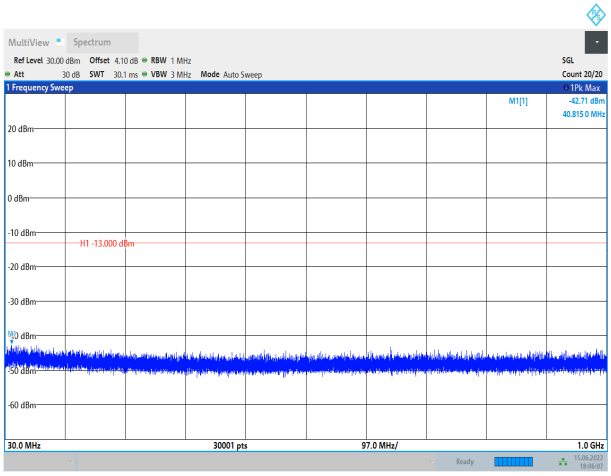
GSM1900-661-30~1000MHz



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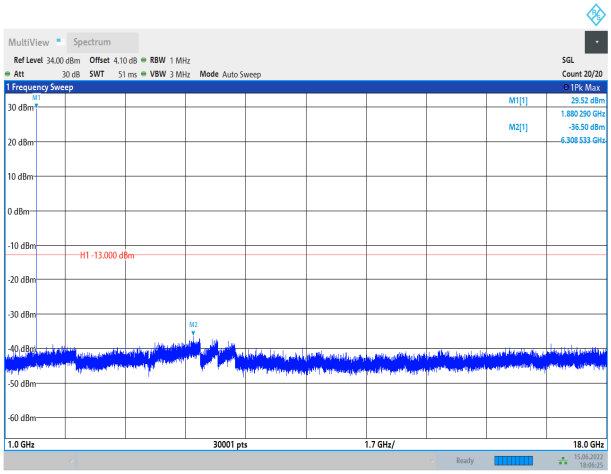
GSM1900-661-1000~18000MHz



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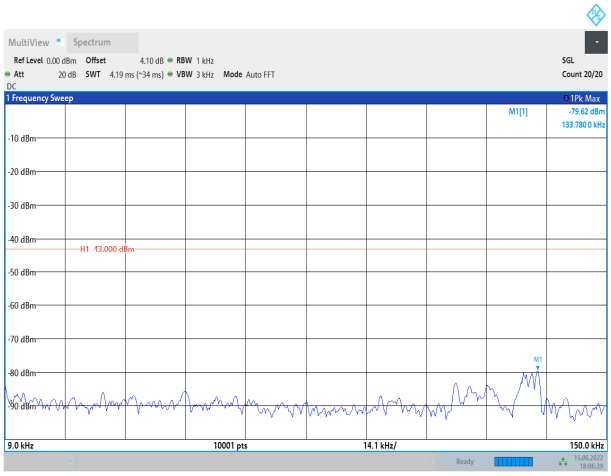
GSM1900-810-0.009~0.15MHz



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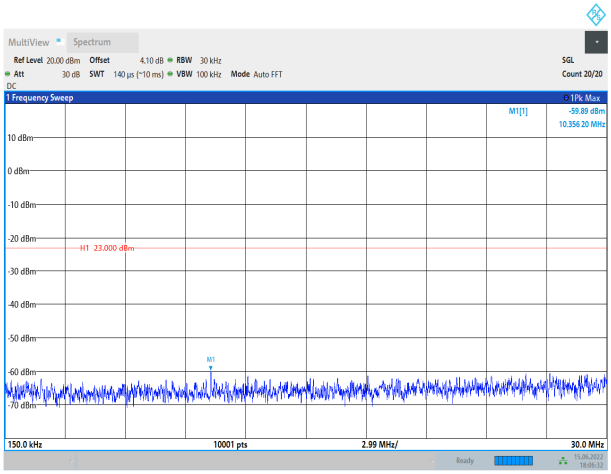
GSM1900-810-0.15~30MHz



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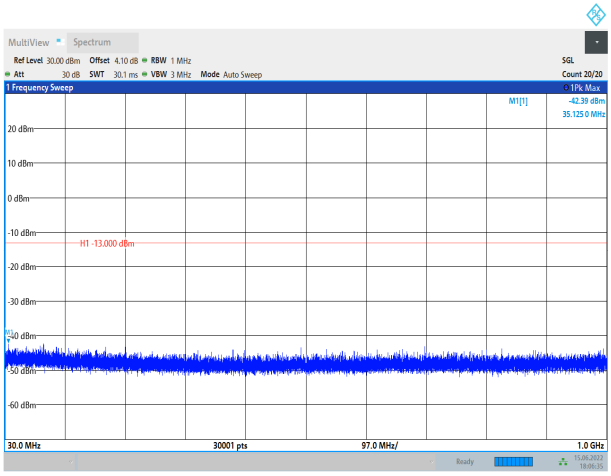
GSM1900-810-30~1000MHz



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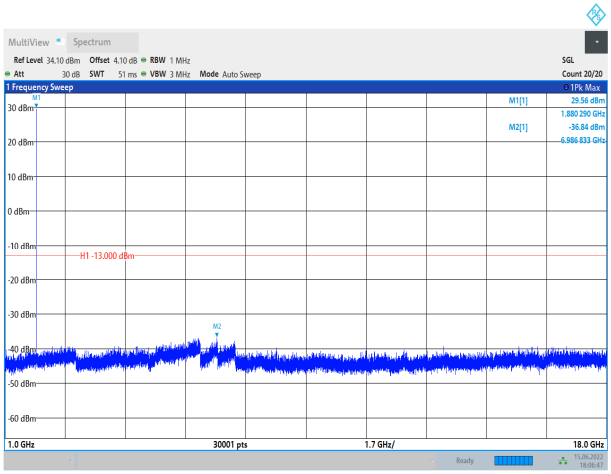
GSM1900-810-1000~18000MHz



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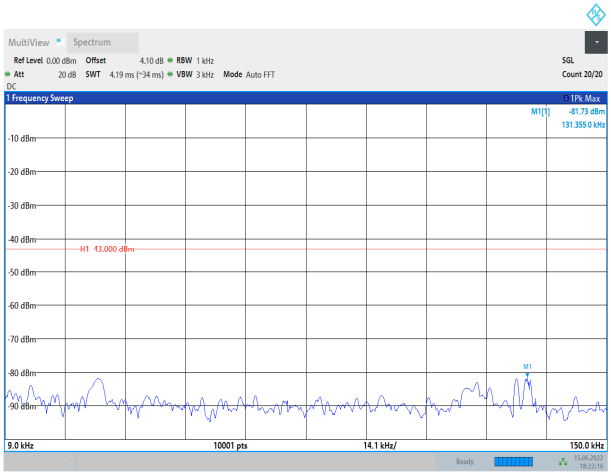
EGPRS1900-512-0.009~0.15MHz



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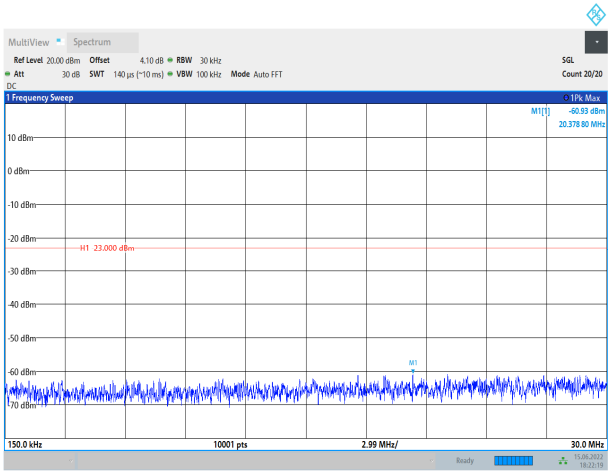
EGPRS1900-512-0.15~30MHz



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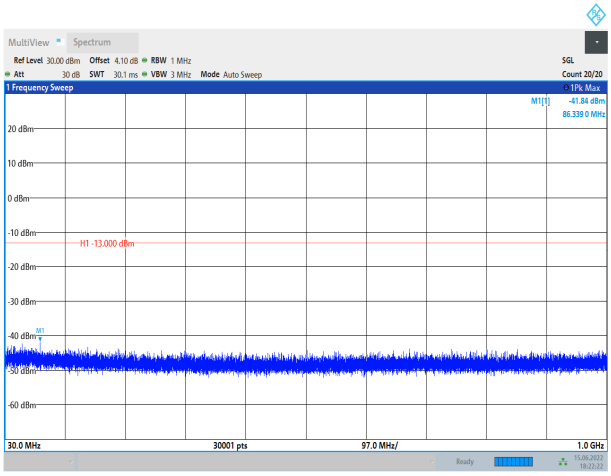
EGPRS1900-512-30~1000MHz



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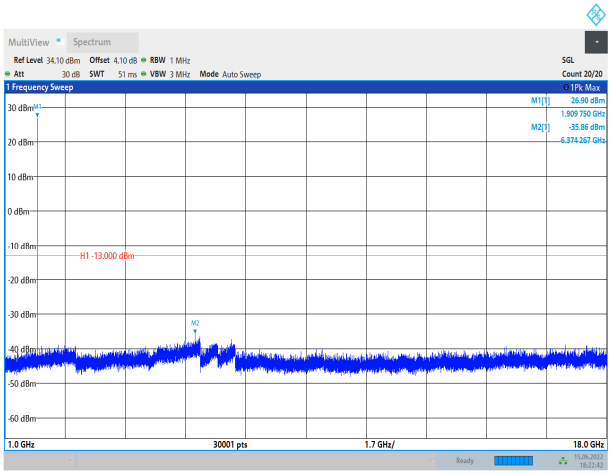
EGPRS1900-512-1000~18000MHz



18:22:43 15.06.2022

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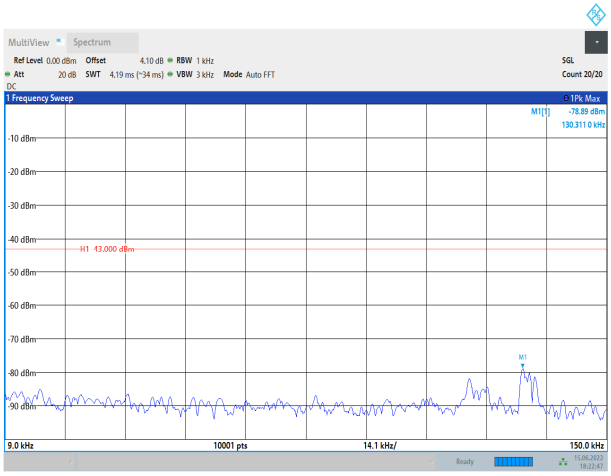
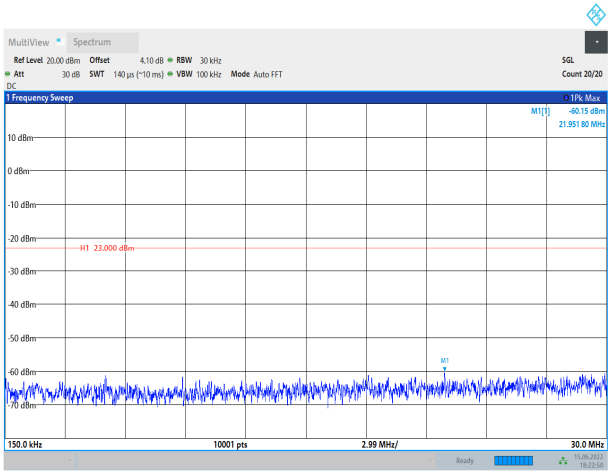
EGPRS1900-661-0.009~0.15MHz



18:22:47 15.06.2022

EGPRS1900-661-0.15~30MHz



18:22:50 15.06.2022

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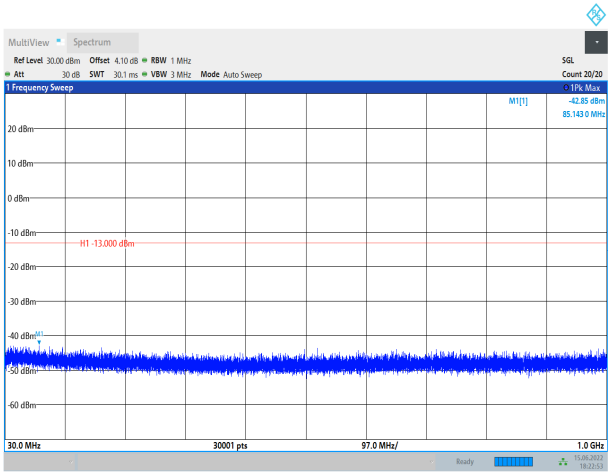
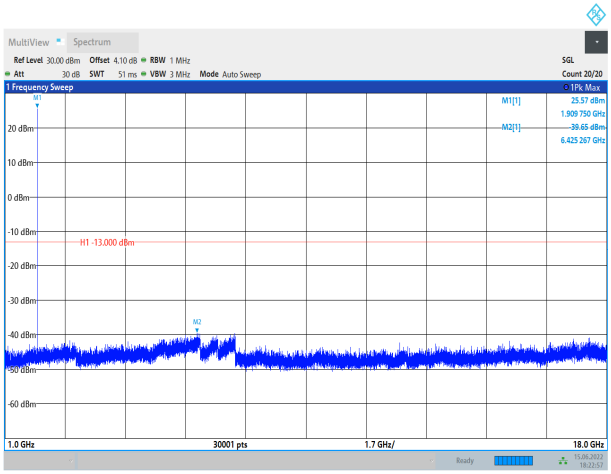
EGPRS1900-661-30~1000MHz



EGPRS1900-661-1000~18000MHz



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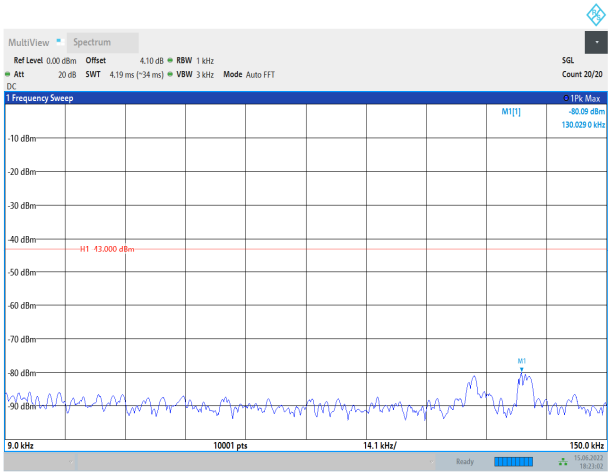
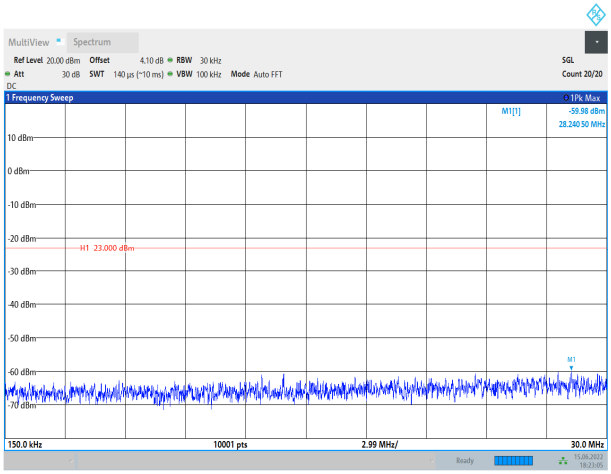
EGPRS1900-810-0.009~0.15MHz



18:23:03 15.06.2022

EGPRS1900-810-0.15~30MHz



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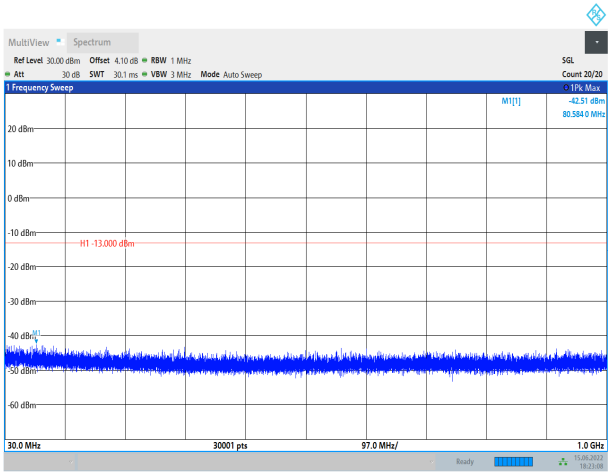
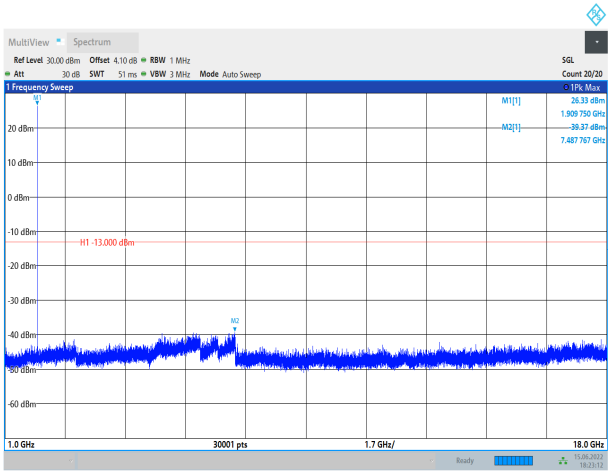
EGPRS1900-810-30~1000MHz



18:23:09 15.06.2022

EGPRS1900-810-1000~18000MHz



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Field Strength of Spurious Radiation

Test Band = GSM 1900_ 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	3700.4000	48.32	-110.79	-62.47	-13.00	49.47	264	313	Horizontal
2	5550.6000	48.46	-107.45	-58.99	-13.00	45.99	249	14	Horizontal
3	7400.8000	47.72	-102.18	-54.46	-13.00	41.46	167	313	Horizontal
4	9251.0000	41.57	-97.12	-55.55	-13.00	42.55	182	254	Horizontal
5	11101.2000	38.11	-94.13	-56.02	-13.00	43.02	143	28	Horizontal
6	15153	38.69	-90.65	-51.96	-13.00	38.96	128	2	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4000	48.37	-110.79	-62.42	-13.00	49.42	124	166	Vertical
2	5550.6000	49.66	-107.45	-57.79	-13.00	44.79	261	357	Vertical
3	7400.8000	47.37	-102.18	-54.81	-13.00	41.81	291	90	Vertical
4	9251.0000	41.58	-97.12	-55.54	-13.00	42.54	173	121	Vertical
5	11101.2000	37.22	-94.13	-56.91	-13.00	43.91	152	16	Vertical
6	13653.75	39.72	-91.28	-51.56	-13.00	38.56	293	332	Vertical

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Member of the SGS Group (SGS SA)

Test Band = GSM 1900_ 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	3760.0000	49.57	-110.83	-61.26	-13.00	48.26	162	286	Horizontal
2	5640.0000	47.56	-107.08	-59.52	-13.00	46.52	175	59	Horizontal
3	7520.0000	45.73	-101.93	-56.20	-13.00	43.20	193	1	Horizontal
4	9400.0000	42.63	-96.60	-53.97	-13.00	40.97	261	180	Horizontal
5	11280.0000	38.68	-93.56	-54.88	-13.00	41.88	273	0	Horizontal
6	13382.25	39.24	-91.54	-52.30	-13.00	39.30	173	303	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	49.02	-110.83	-61.81	-13.00	48.81	263	147	Vertical
2	5640.0000	47.91	-107.08	-59.17	-13.00	46.17	172	118	Vertical
3	7520.0000	46.25	-101.93	-55.68	-13.00	42.68	183	162	Vertical
4	9400.0000	42.54	-96.60	-54.06	-13.00	41.06	281	0	Vertical
5	11280.0000	38.43	-93.56	-55.13	-13.00	42.13	219	0	Vertical
6	13776.75	39.45	-91.62	-52.17	-13.00	39.17	173	356	Vertical

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Test Band = GSM 1900_ 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	3819.6000	50.02	-110.87	-60.85	-13.00	47.85	162	0	Horizontal
2	7639.2000	46.23	-101.80	-55.57	-13.00	42.57	178	43	Horizontal
3	9549.0000	41.71	-96.76	-55.05	-13.00	42.05	175	356	Horizontal
4	11458.8000	39.34	-93.55	-54.21	-13.00	41.21	261	120	Horizontal
5	13758.75	38.85	-91.56	-52.71	-13.00	39.71	237	134	Horizontal
6	16500	38.92	-91.18	-52.26	-13.00	39.26	294	0	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	49.84	-110.87	-61.03	-13.00	48.03	261	125	Vertical
2	7639.2000	47.13	-101.80	-54.67	-13.00	41.67	182	346	Vertical
3	9549.0000	41.20	-96.76	-55.56	-13.00	42.56	137	209	Vertical
4	11458.8000	37.78	-93.55	-55.77	-13.00	42.77	127	195	Vertical
5	13653.75	38.30	-91.28	-52.98	-13.00	39.98	249	195	Vertical
6	16340.25	39.58	-92.14	-52.56	-13.00	39.56	243	209	Vertical

Remark:

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

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

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Frequency Stability

Test Result

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	9.10	0.004840	PASS
GSM1900	661	VN	NT	14.50	0.007713	PASS
GSM1900	661	VH	NT	26.24	0.013957	PASS
EGPRS1900	661	VL	NT	21.17	0.011261	PASS
EGPRS1900	661	VN	NT	24.77	0.013176	PASS
EGPRS1900	661	VH	NT	38.52	0.020489	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	24.23	0.012888	PASS
GSM1900	661	NV	-20	22.05	0.011729	PASS
GSM1900	661	NV	-10	24.19	0.012867	PASS
GSM1900	661	NV	0	25.01	0.013303	PASS
GSM1900	661	NV	10	25.09	0.013346	PASS
GSM1900	661	NV	20	23.61	0.012559	PASS
GSM1900	661	NV	30	21.37	0.011367	PASS
GSM1900	661	NV	40	17.24	0.009170	PASS
GSM1900	661	NV	50	15.36	0.008170	PASS
EGPRS1900	661	NV	-30	33.18	0.017649	PASS
EGPRS1900	661	NV	-20	31.92	0.016979	PASS
EGPRS1900	661	NV	-10	27.16	0.014447	PASS
EGPRS1900	661	NV	0	37.05	0.019707	PASS
EGPRS1900	661	NV	10	32.78	0.017436	PASS
EGPRS1900	661	NV	20	27.28	0.014511	PASS
EGPRS1900	661	NV	30	23.53	0.012516	PASS
EGPRS1900	661	NV	40	23.54	0.012521	PASS
EGPRS1900	661	NV	50	39.13	0.020814	PASS

The End

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