



Report No.: SEWM2306000195RG01

Rev.: 01

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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	ERP(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	33.28	25.63	38.45	PASS
GSM850	190	33.03	25.38	38.45	PASS
GSM850	251	32.78	25.13	38.45	PASS

Ant0:

Band	Channel	EIRP(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	29.63	26.53	33.00	PASS
GSM1900	661	29.55	26.45	33.00	PASS
GSM1900	810	29.40	26.30	33.00	PASS



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Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	27.20	19.55	38.45	PASS
EGPRS850	128	2	25.09	17.44	38.45	PASS
EGPRS850	128	3	22.95	15.30	38.45	PASS
EGPRS850	128	4	22.22	14.57	38.45	PASS
EGPRS850	190	1	26.89	19.24	38.45	PASS
EGPRS850	190	2	24.87	17.22	38.45	PASS
EGPRS850	190	3	22.69	15.04	38.45	PASS
EGPRS850	190	4	21.99	14.34	38.45	PASS
EGPRS850	251	1	26.57	18.92	38.45	PASS
EGPRS850	251	2	24.52	16.87	38.45	PASS
EGPRS850	251	3	22.39	14.74	38.45	PASS
EGPRS850	251	4	21.76	14.11	38.45	PASS
Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	26.38	23.28	33.00	PASS
EGPRS1900	512	2	24.01	20.91	33.00	PASS
EGPRS1900	512	3	21.66	18.56	33.00	PASS
EGPRS1900	512	4	20.8	17.7	33.00	PASS
EGPRS1900	661	1	26.09	22.99	33.00	PASS
EGPRS1900	661	2	23.91	20.81	33.00	PASS
EGPRS1900	661	3	21.52	18.42	33.00	PASS
EGPRS1900	661	4	20.62	17.52	33.00	PASS
EGPRS1900	810	1	25.92	22.82	33.00	PASS
EGPRS1900	810	2	23.72	20.62	33.00	PASS
EGPRS1900	810	3	21.4	18.3	33.00	PASS
EGPRS1900	810	4	20.47	17.37	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	6.98	13	PASS
GSM850	190	7.16	13	PASS
GSM850	251	7.44	13	PASS
EGPRS850	128	12.7	13	PASS
EGPRS850	190	12.6	13	PASS
EGPRS850	251	12.74	13	PASS
GSM1900	512	9.52	13	PASS
GSM1900	661	9.52	13	PASS
GSM1900	810	9.42	13	PASS
EGPRS1900	512	12.74	13	PASS
EGPRS1900	661	12.8	13	PASS
EGPRS1900	810	12.74	13	PASS



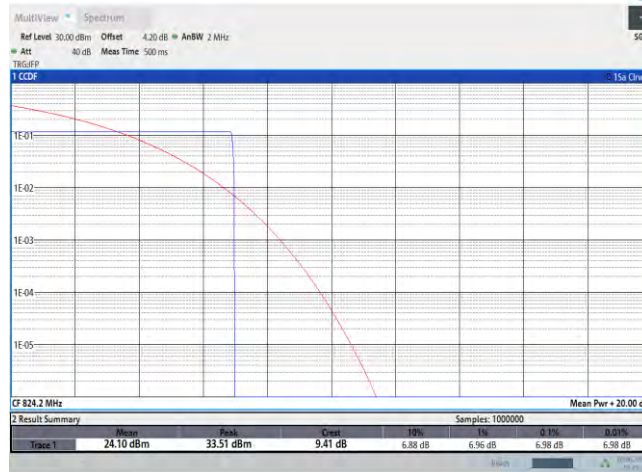
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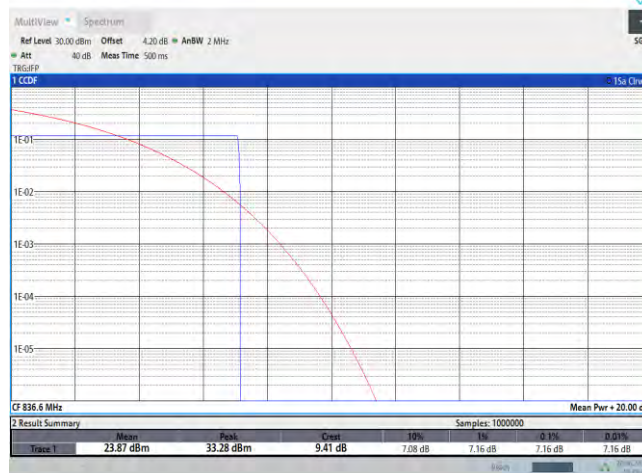
Test Graphs

GSM850-128



19:44:35 20.06.2023

GSM850-190



19:44:44 20.06.2023



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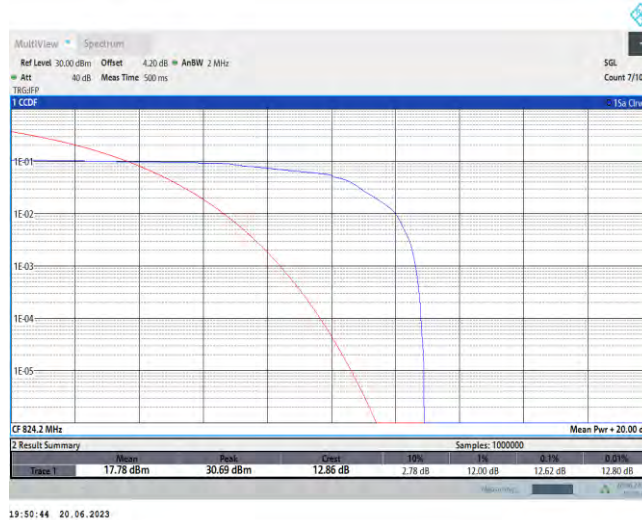
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GSM850-251



EGPRS850-128

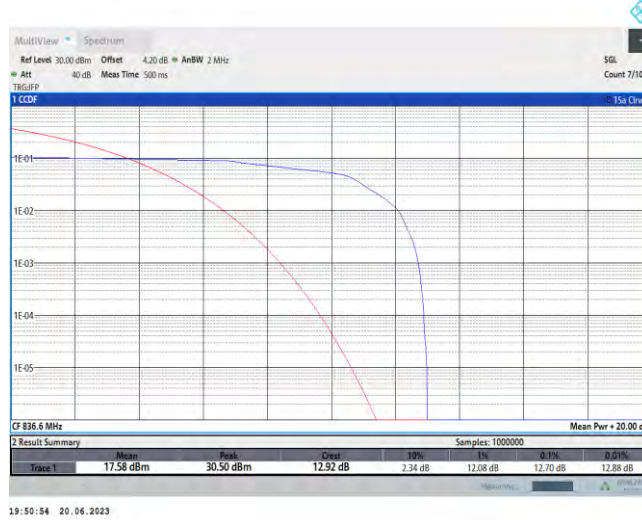


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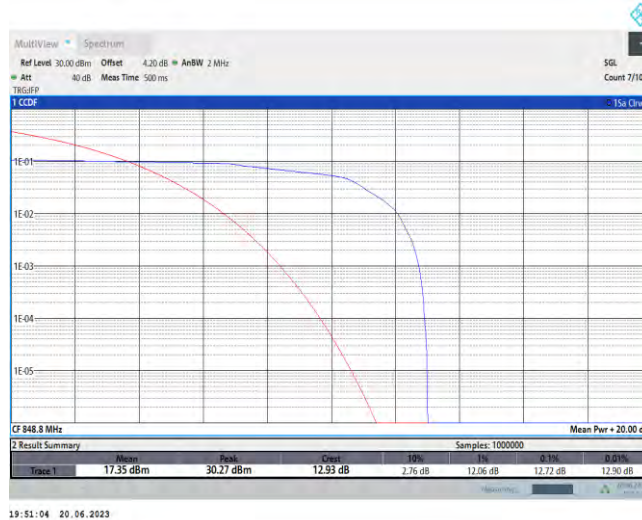
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EGPRS850-190



EGPRS850-251



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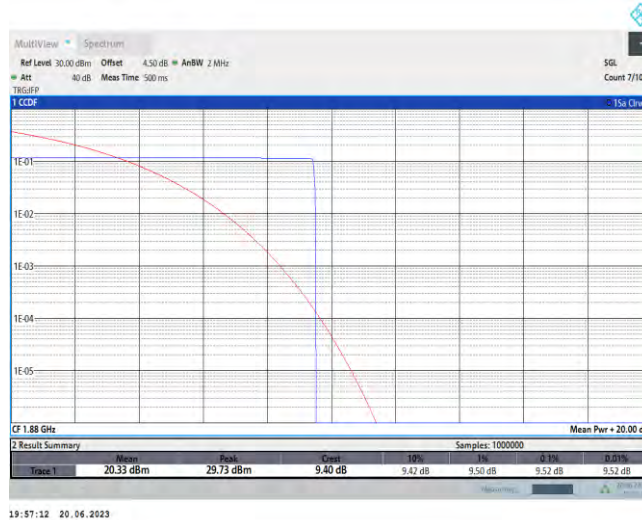
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GSM1900-512



GSM1900-661

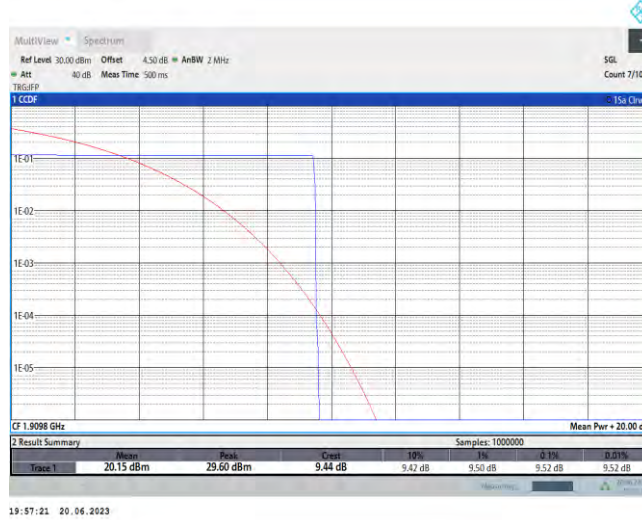


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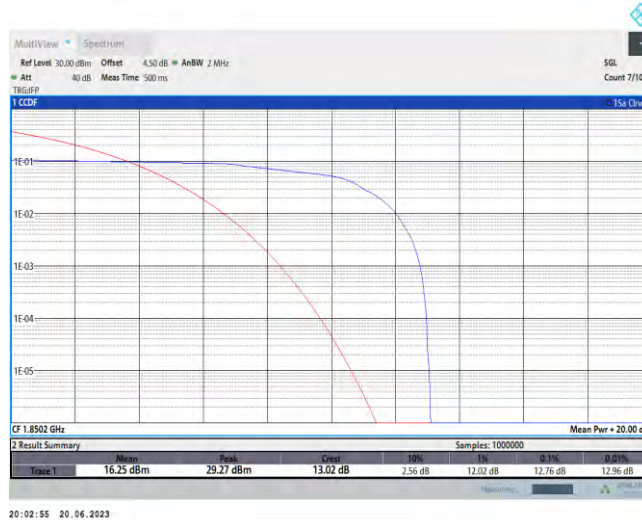
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GSM1900-810



EGPRS1900-512

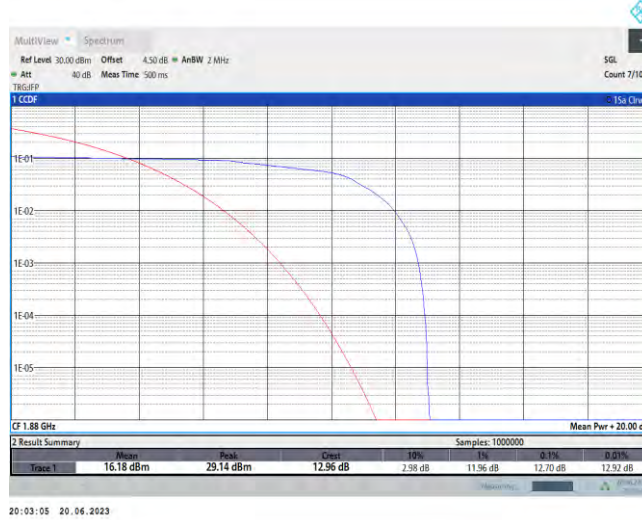


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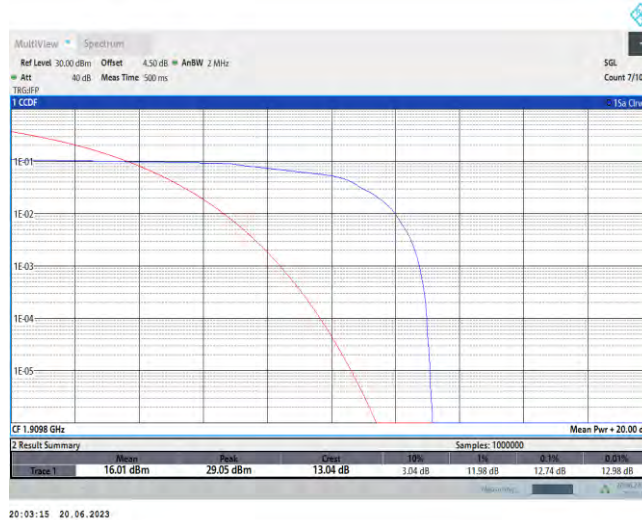
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EGPRS1900-661



EGPRS1900-810



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Modulation Characteristics

Test Result

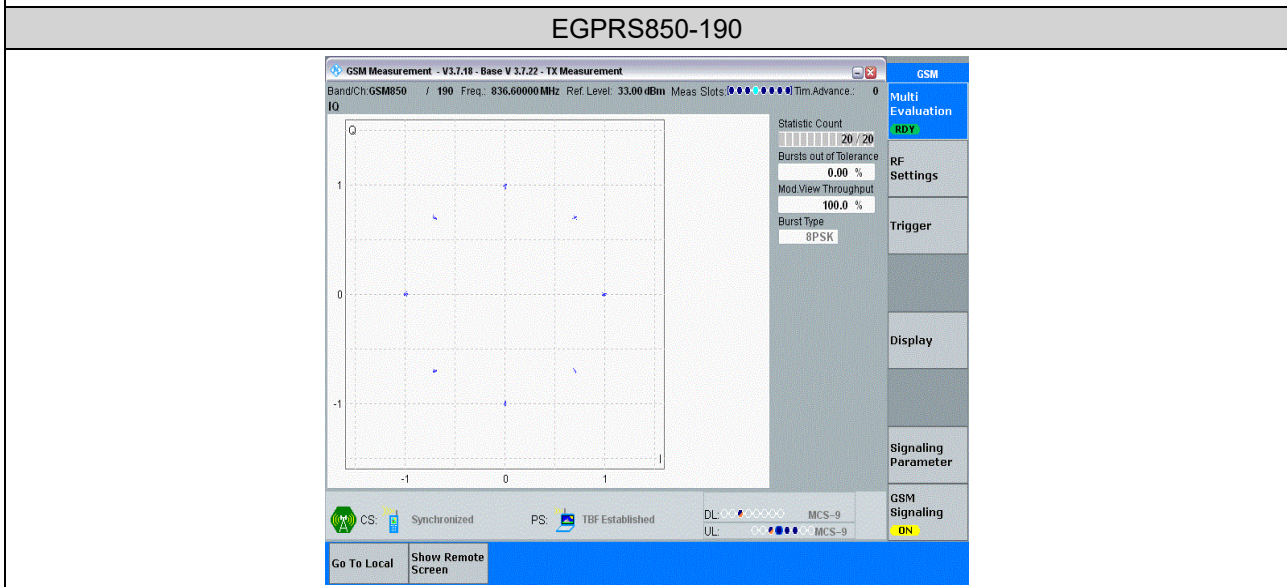
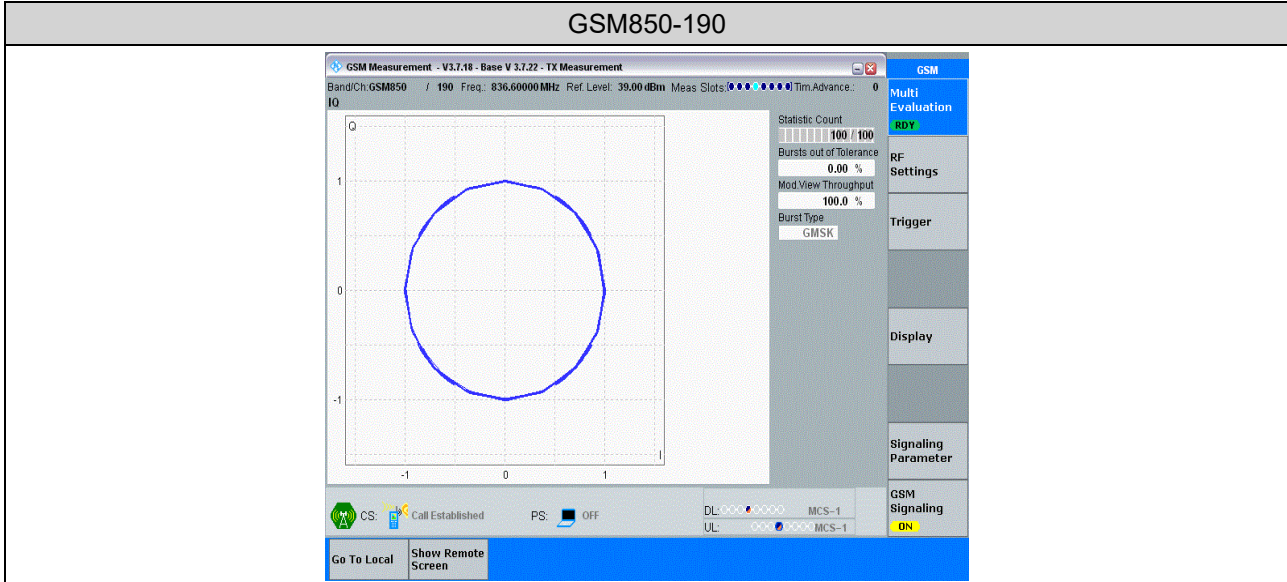
Band	Channel	Result	Verdict
GSM850	190	PASS	PASS
EGPRS850	190	PASS	PASS
GSM1900	661	PASS	PASS
EGPRS1900	661	PASS	PASS



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Test Graphs

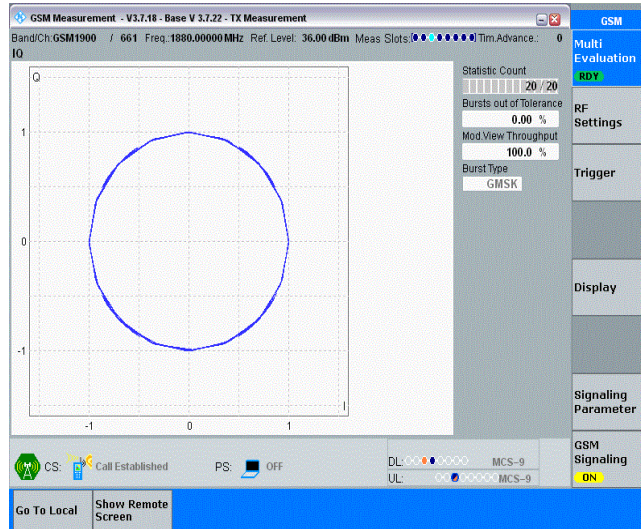


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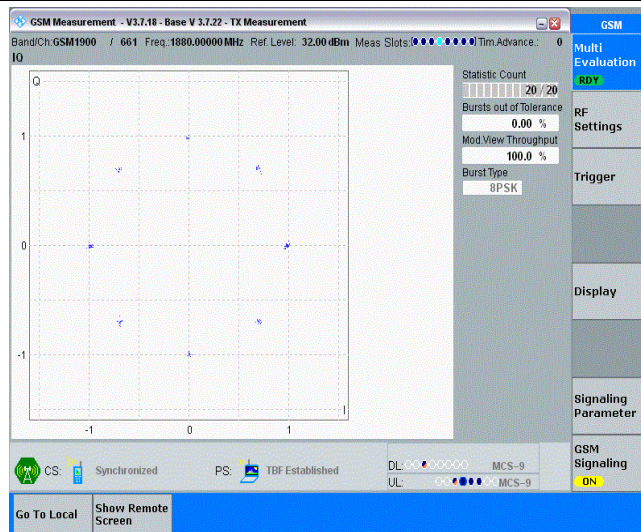
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GSM1900-661



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	0.247	0.32	---	PASS
GSM850	190	0.248	0.32	---	PASS
GSM850	251	0.248	0.32	---	PASS
EGPRS850	128	0.247	0.32	---	PASS
EGPRS850	190	0.248	0.32	---	PASS
EGPRS850	251	0.248	0.32	---	PASS
GSM1900	512	0.245	0.32	---	PASS
GSM1900	661	0.246	0.32	---	PASS
GSM1900	810	0.248	0.32	---	PASS
EGPRS1900	512	0.247	0.32	---	PASS
EGPRS1900	661	0.250	0.33	---	PASS
EGPRS1900	810	0.249	0.32	---	PASS

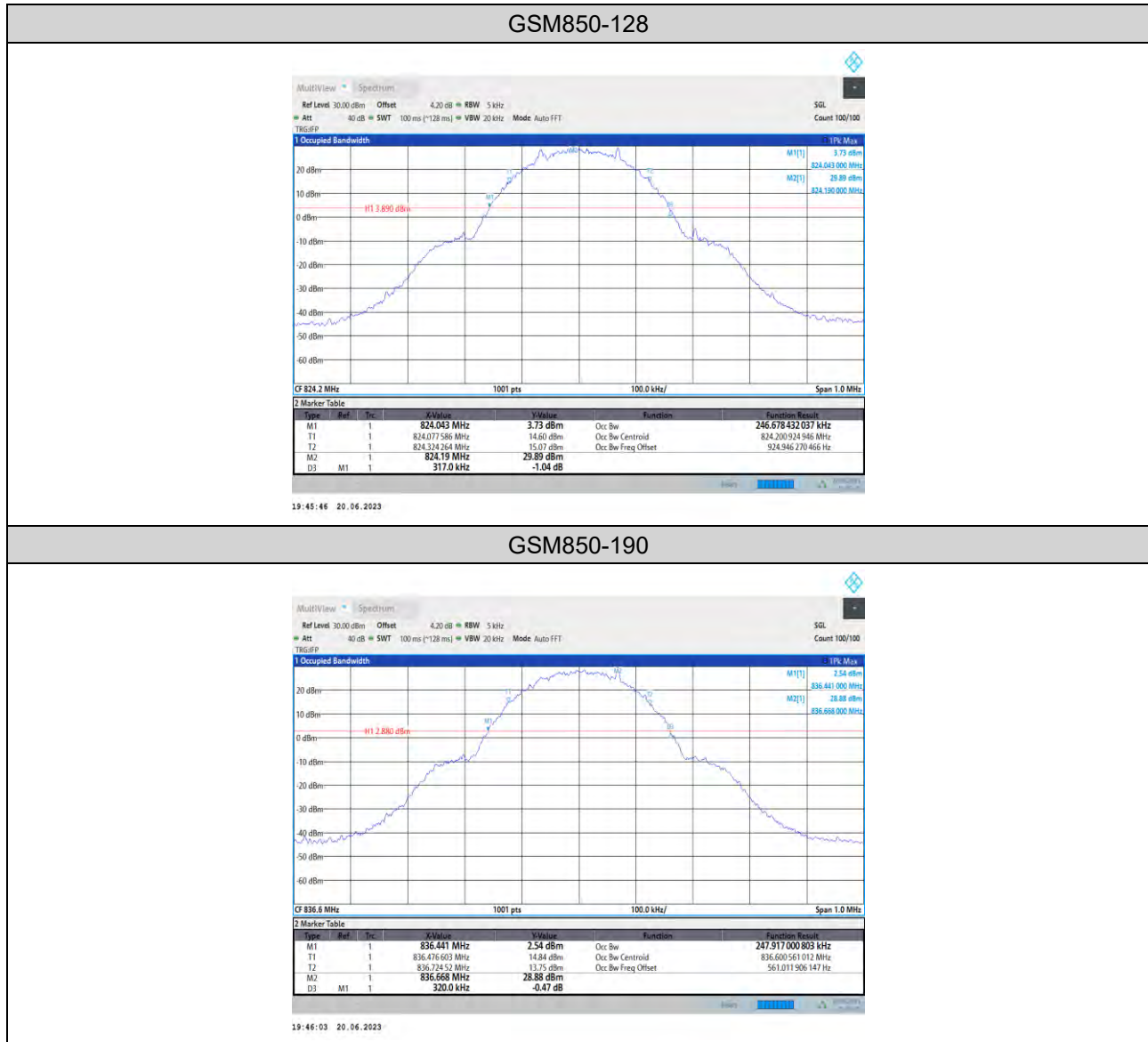


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Test Graphs

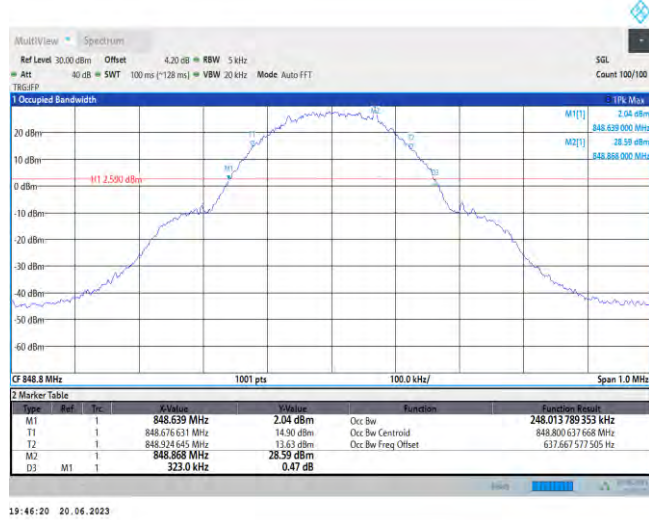


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GSM850-251



EGPRS850-128

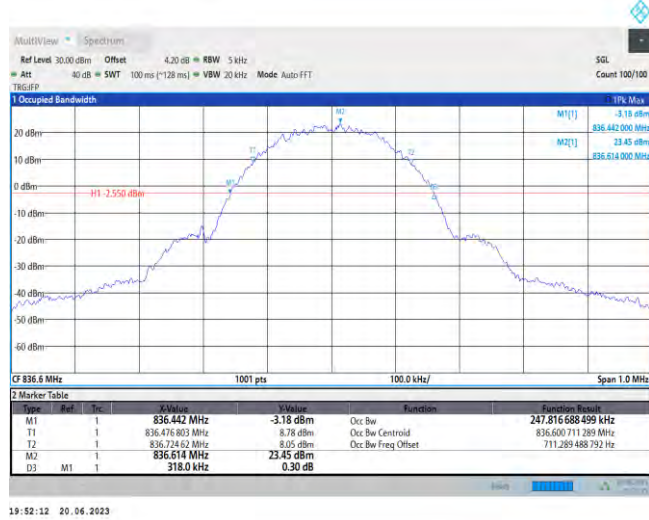


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EGPRS850-190



EGPRS850-251

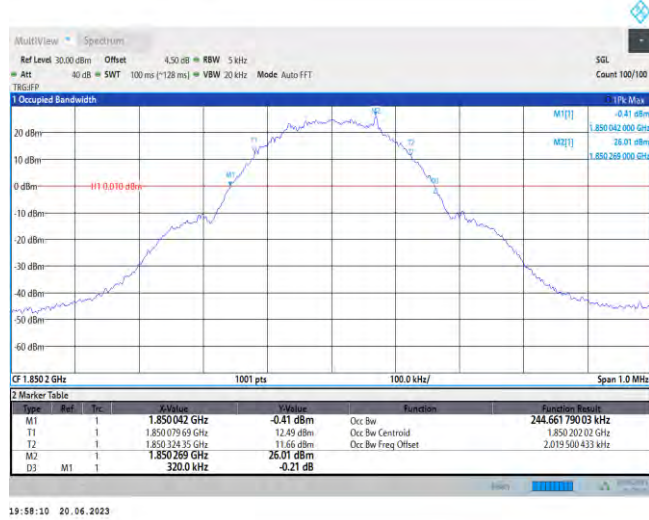


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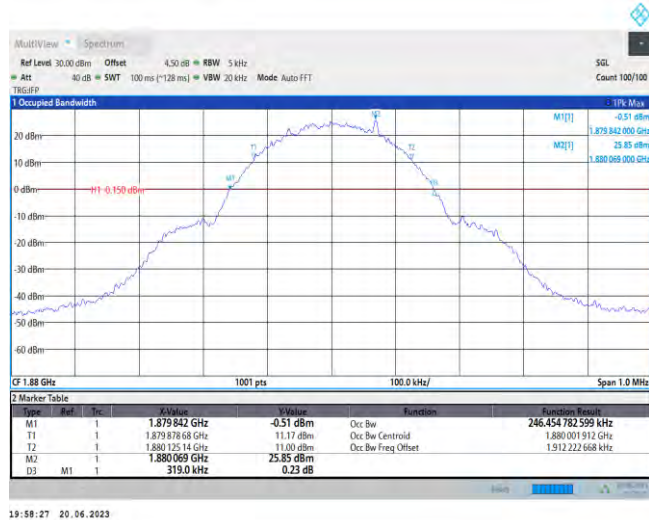
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GSM1900-512



GSM1900-661



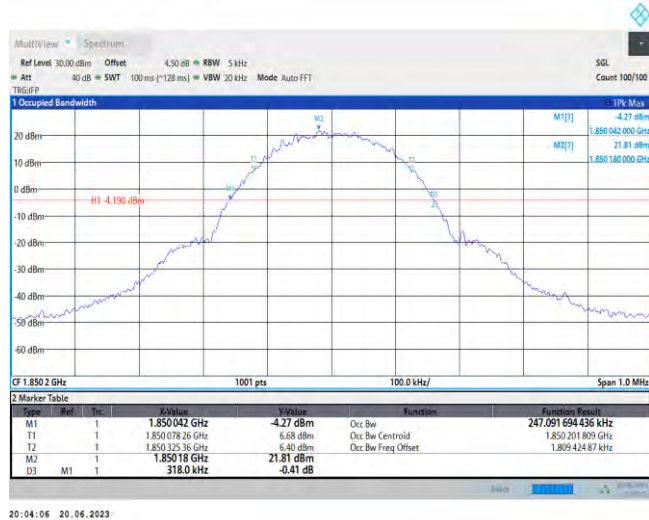
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GSM1900-810



EGPRS1900-512



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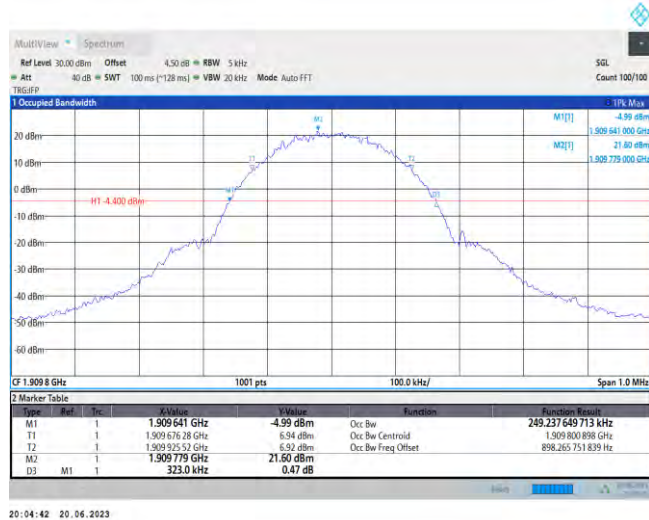
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EGPRS1900-661



EGPRS1900-810

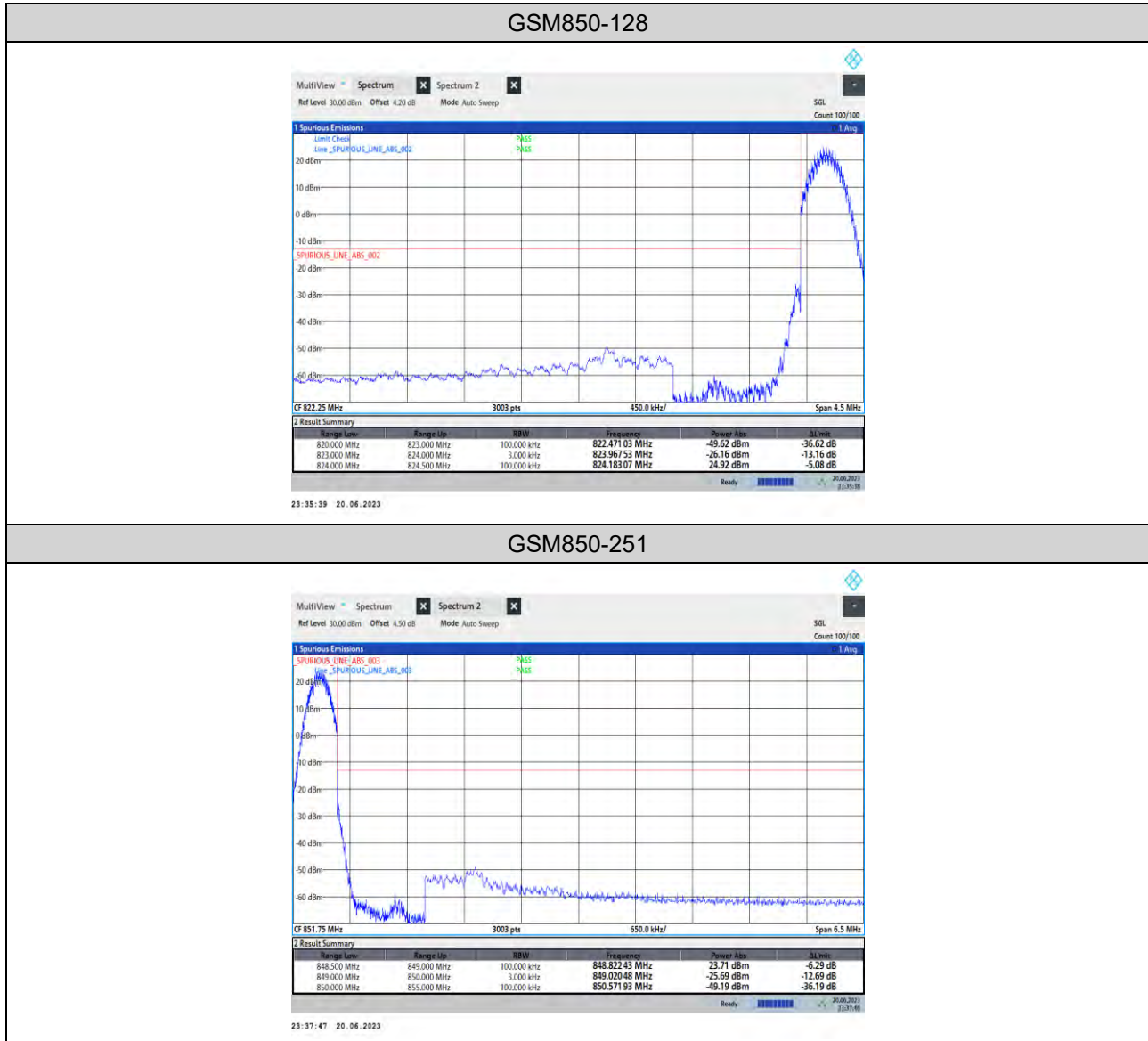


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Band Edge

Test Graphs

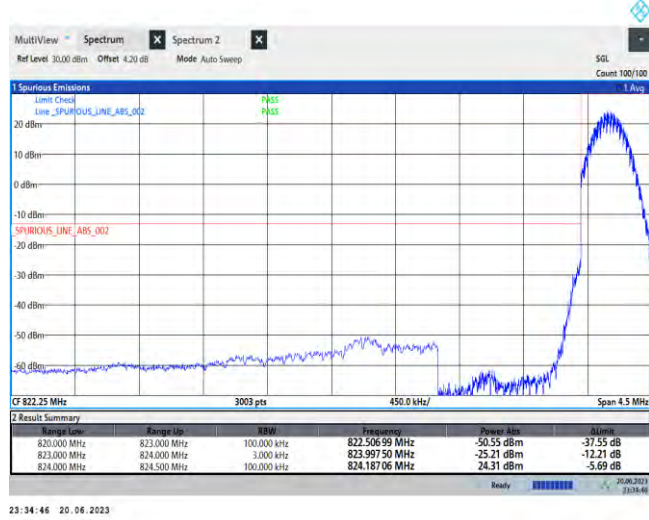


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EGPRS850-128



EGPRS850-251

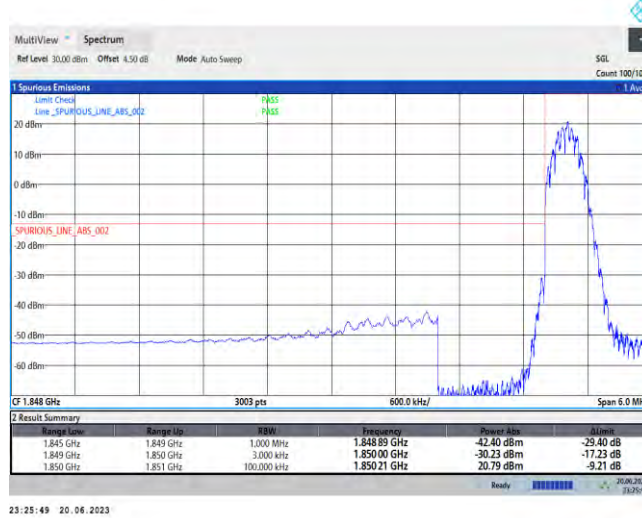


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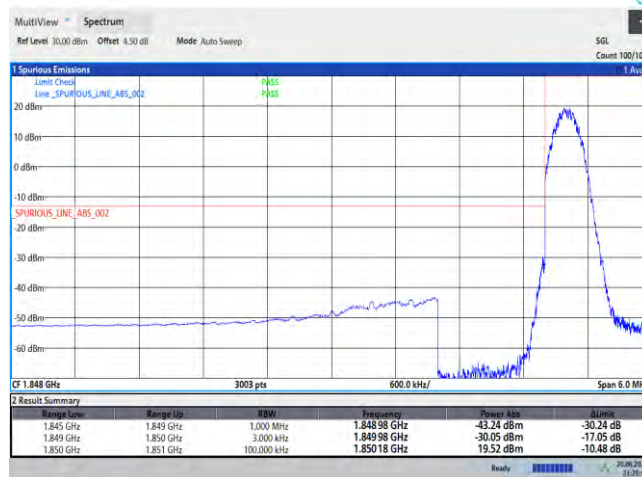
GSM1900-512



GSM1900-810



EGPRS1900-512



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EGPRS1900-810

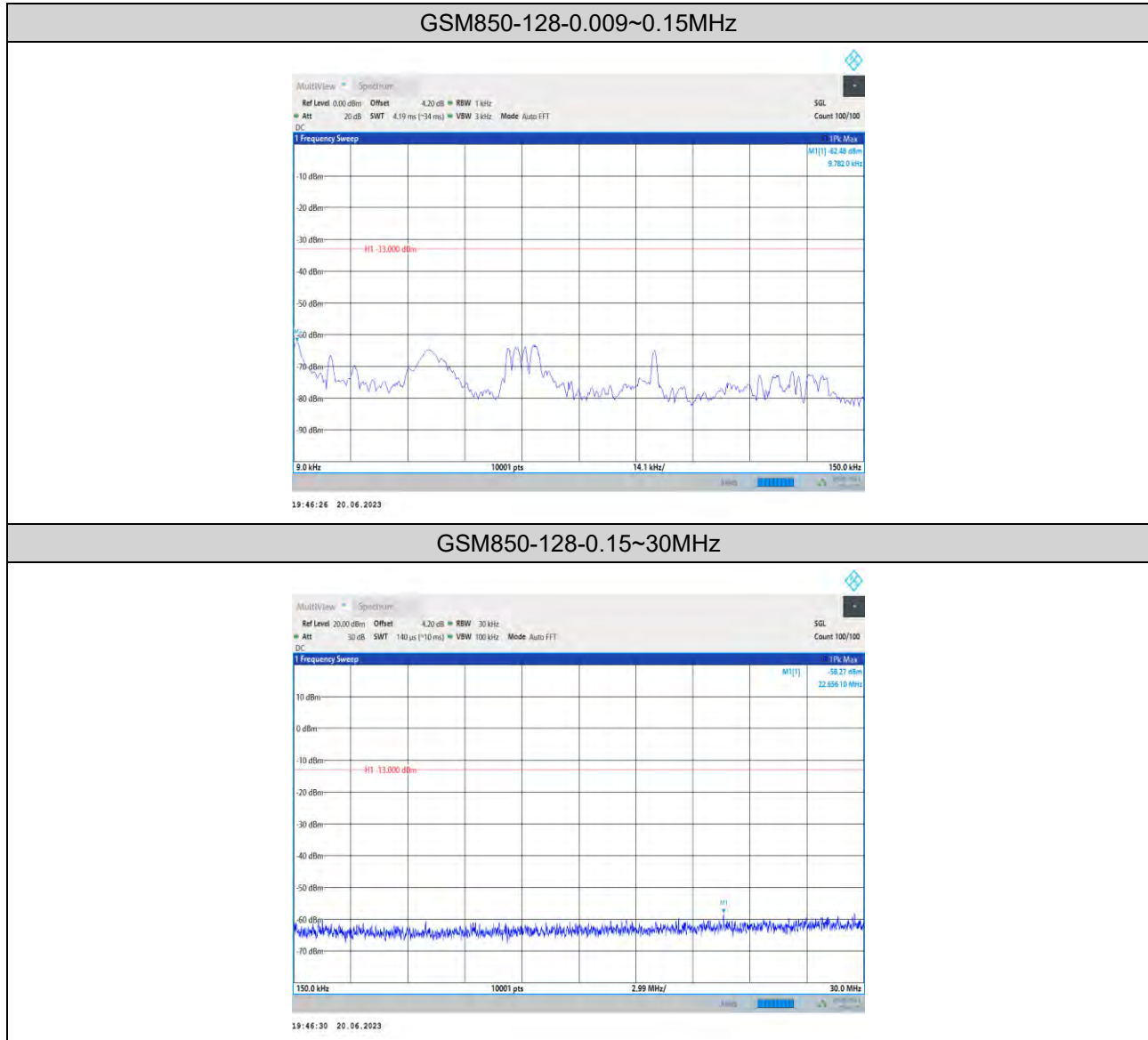


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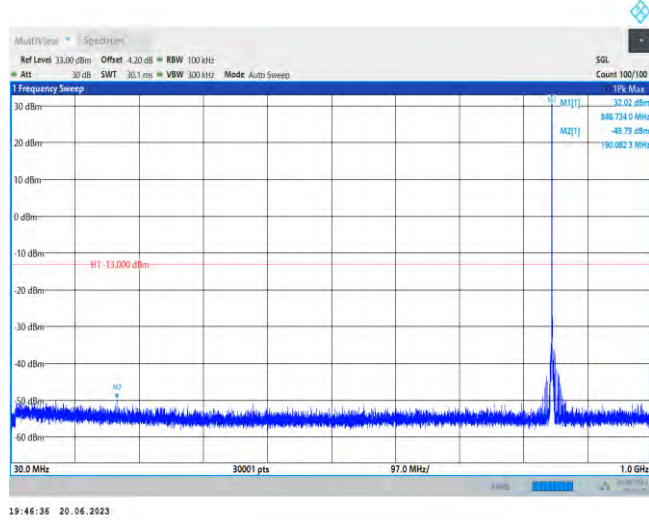


Conducted Spurious Emission

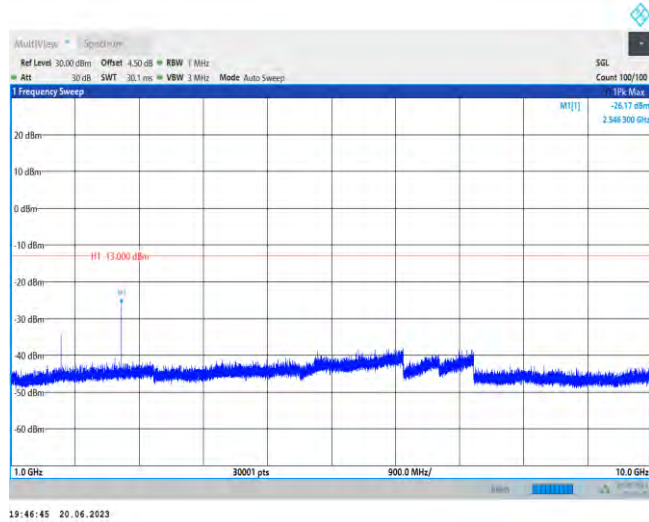
Test Graphs



GSM850-128-30~1000MHz



GSM850-128-1000~10000MHz

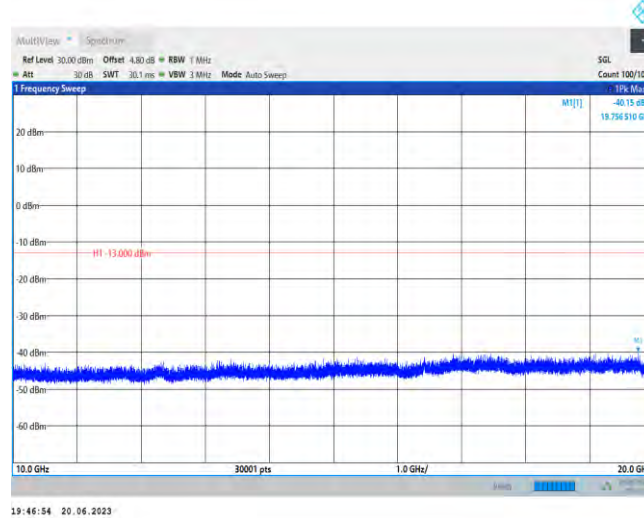


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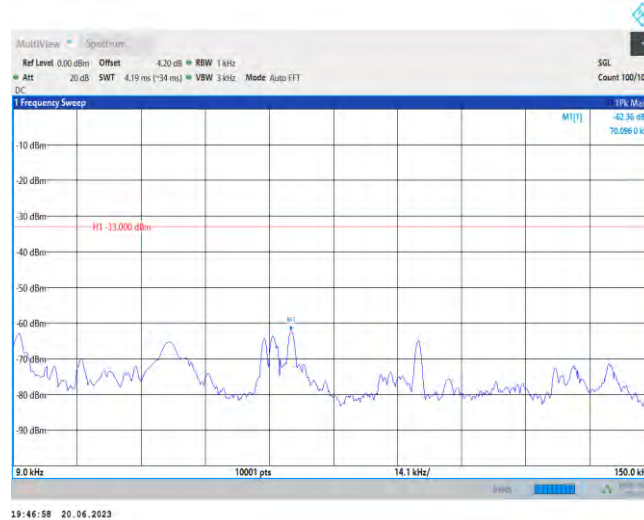
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GSM850-128-10000~20000MHz



GSM850-190-0.009~0.15MHz

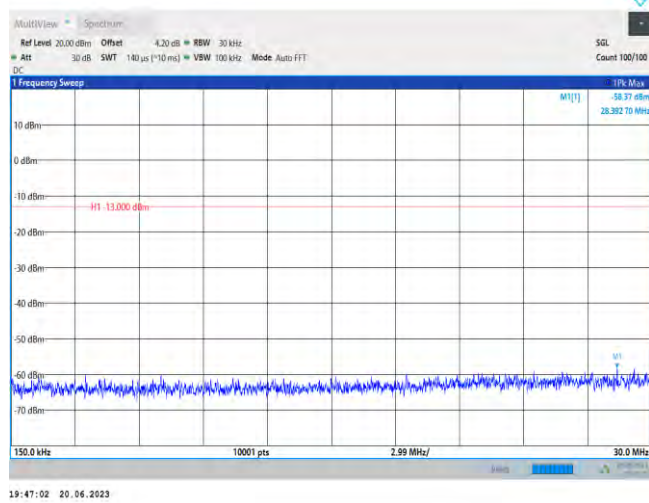


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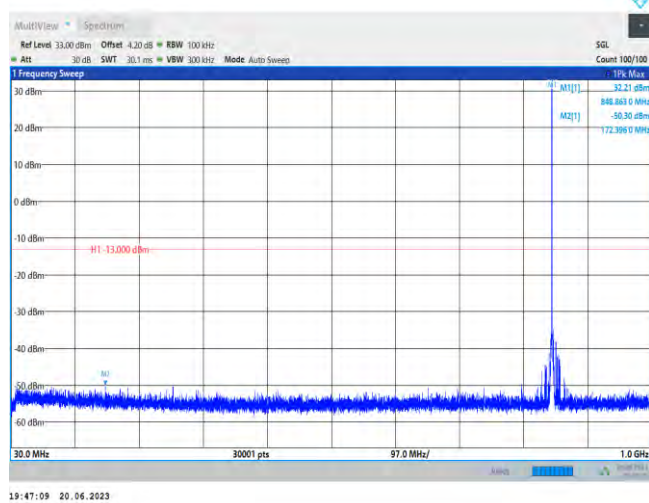
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GSM850-190-0.15~30MHz



GSM850-190-30~1000MHz

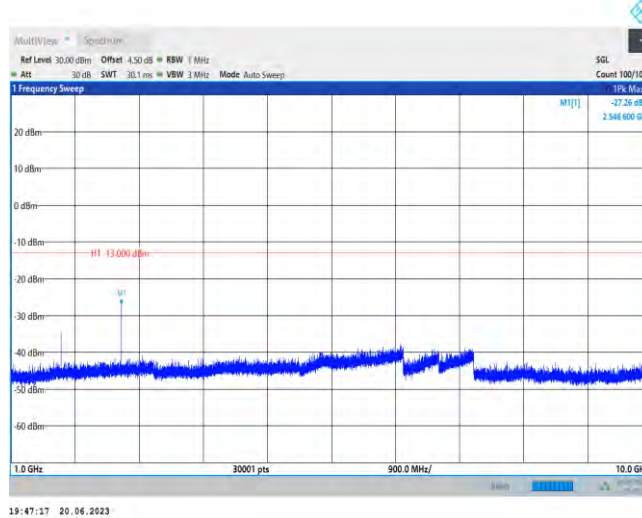


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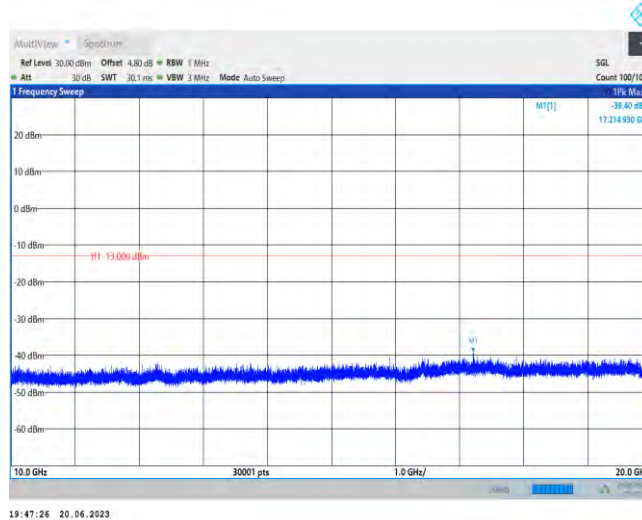
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GSM850-190-1000~10000MHz



GSM850-190-10000~20000MHz

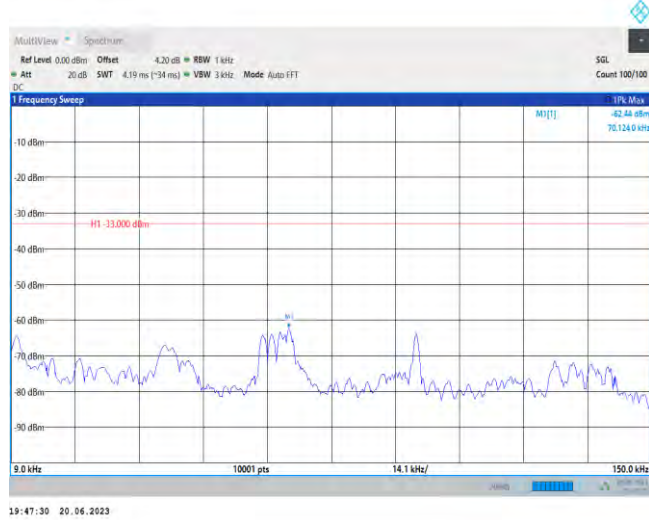


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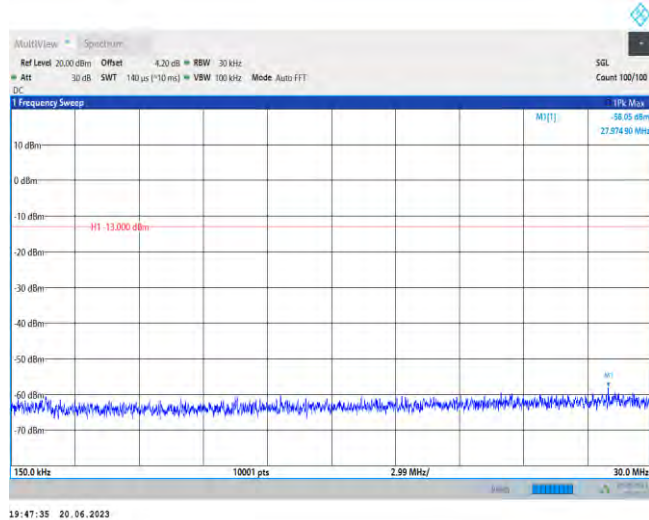
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GSM850-251-0.009~0.15MHz



GSM850-251-0.15~30MHz



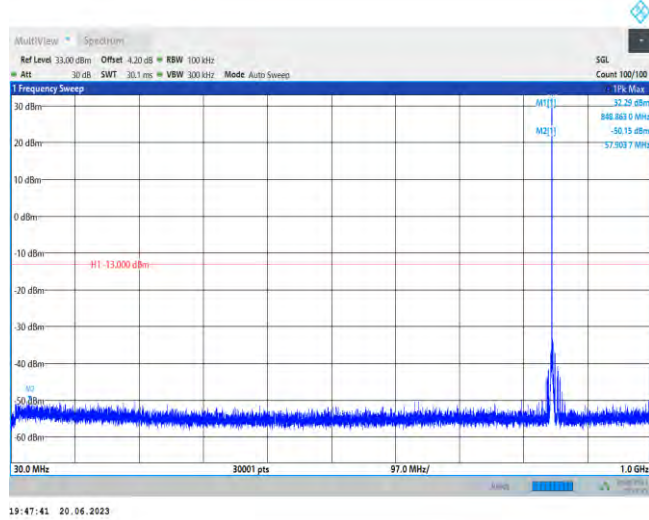
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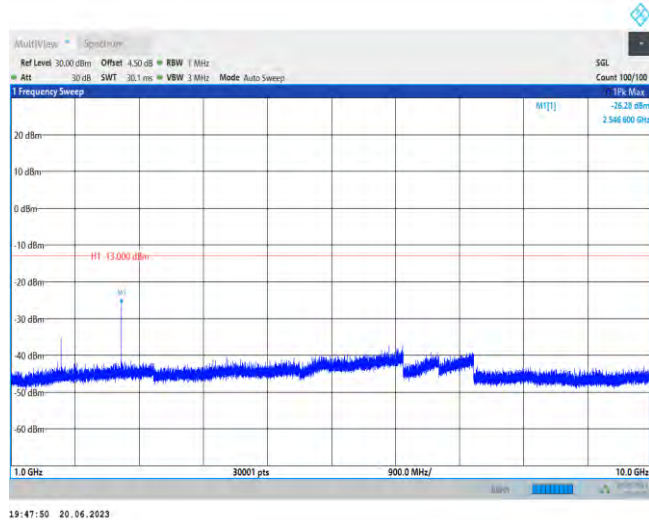
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GSM850-251-30~1000MHz



GSM850-251-1000~10000MHz

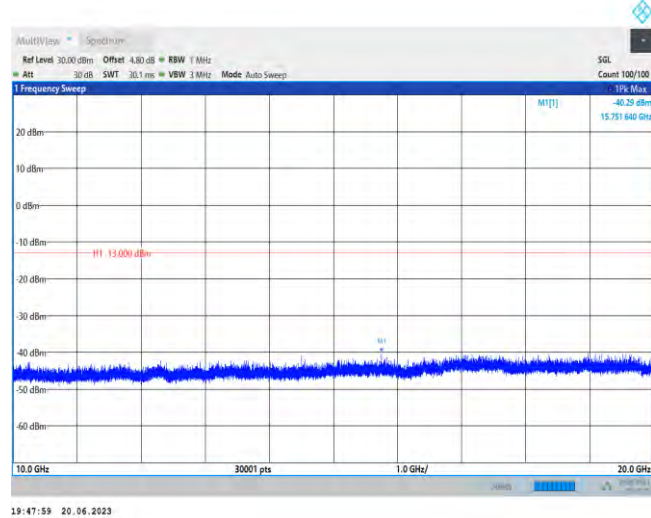


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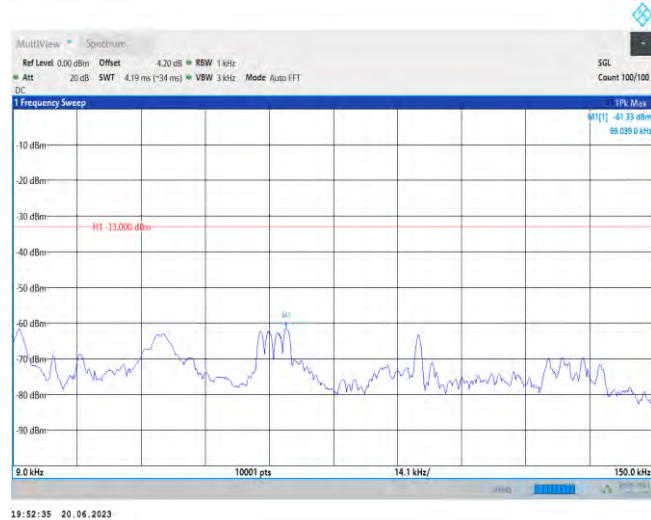
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GSM850-251-10000~20000MHz



EGPRS850-128-0.009~0.15MHz

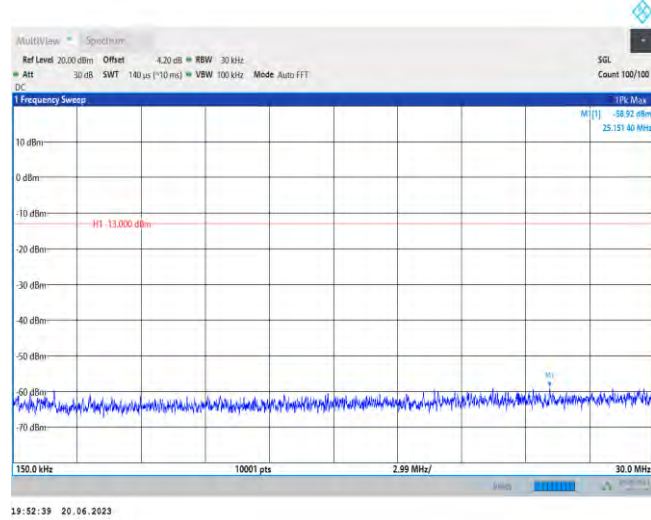


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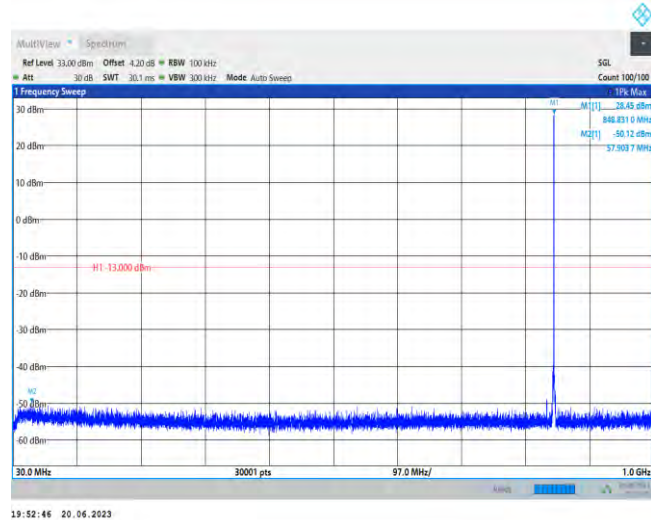
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EGPRS850-128-0.15~30MHz



EGPRS850-128-30~1000MHz

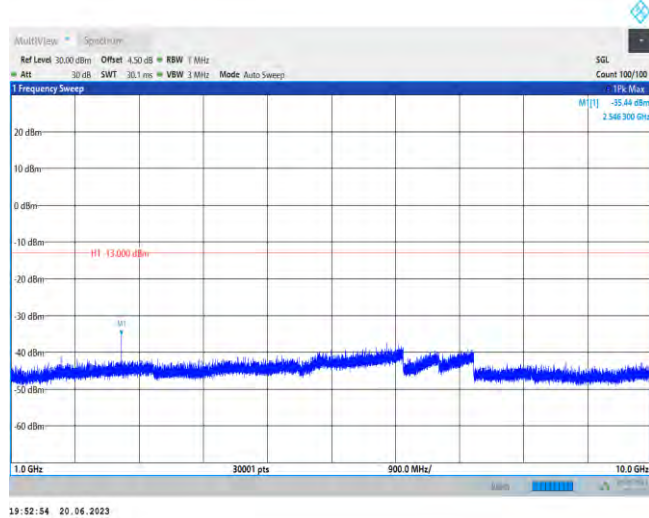


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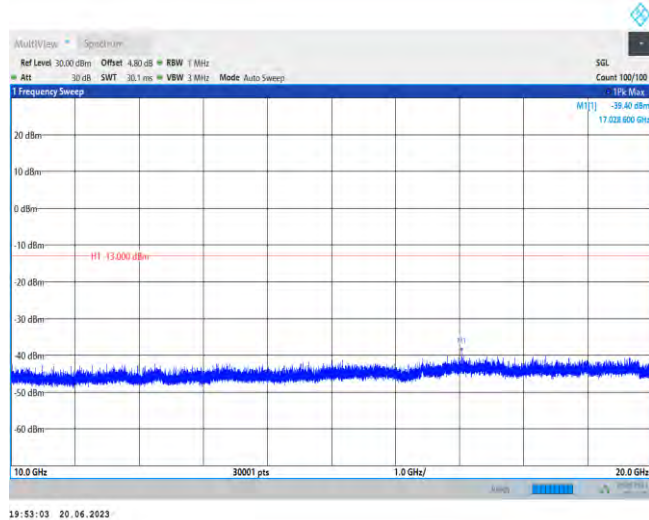
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EGPRS850-128-1000~10000MHz



EGPRS850-128-10000~20000MHz

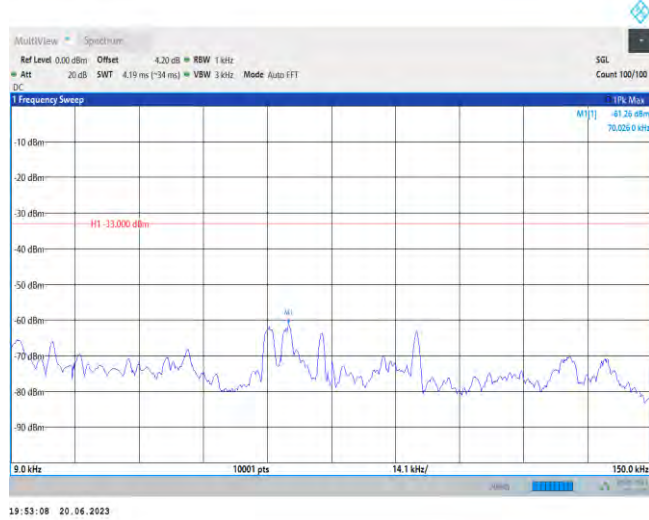


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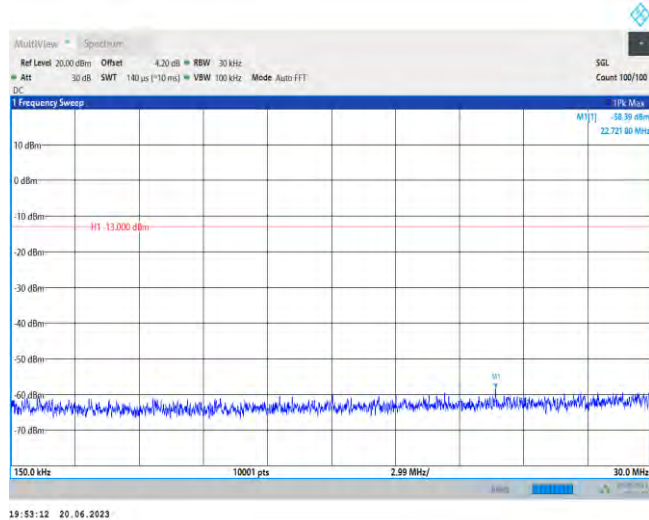
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EGPRS850-190-0.009~0.15MHz



EGPRS850-190-0.15~30MHz

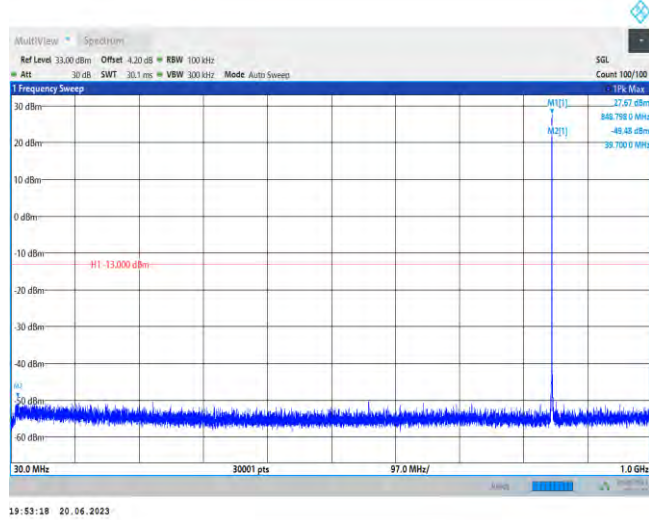


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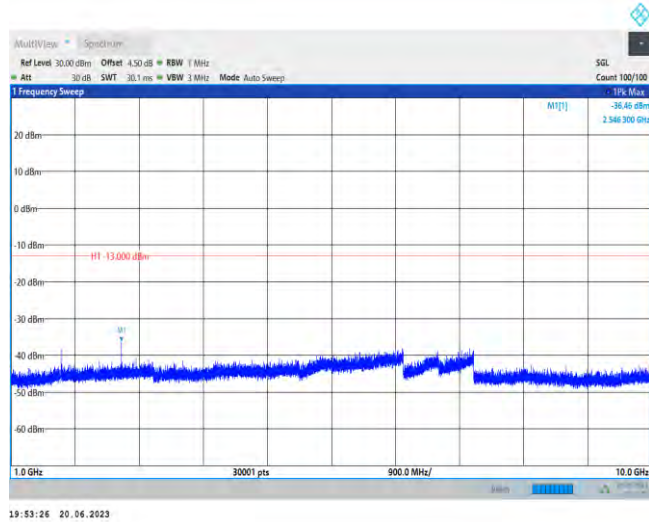
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EGPRS850-190-30~1000MHz



EGPRS850-190-1000~10000MHz

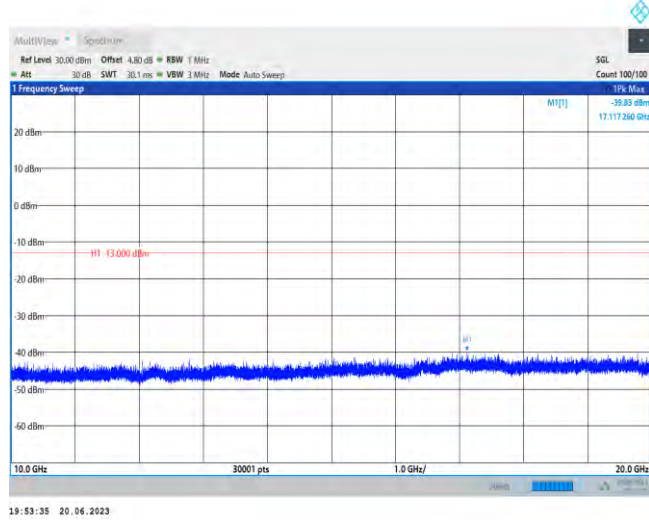


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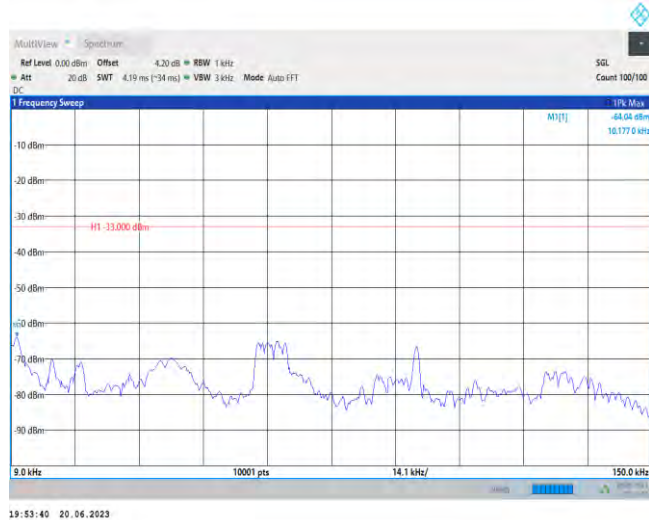
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EGPRS850-190-10000~20000MHz



EGPRS850-251-0.009~0.15MHz

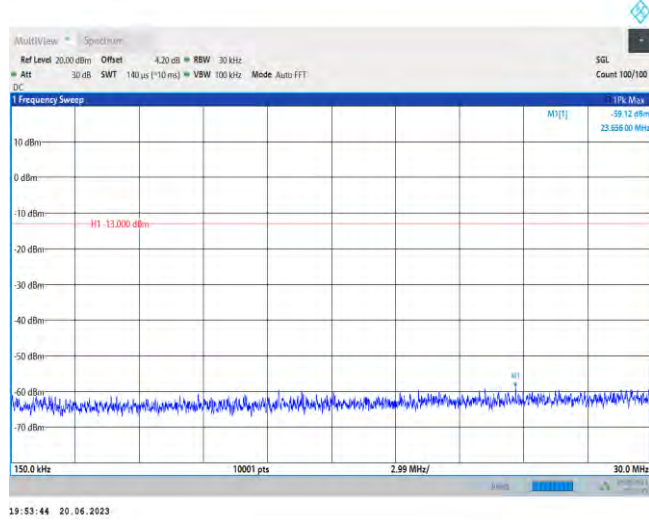


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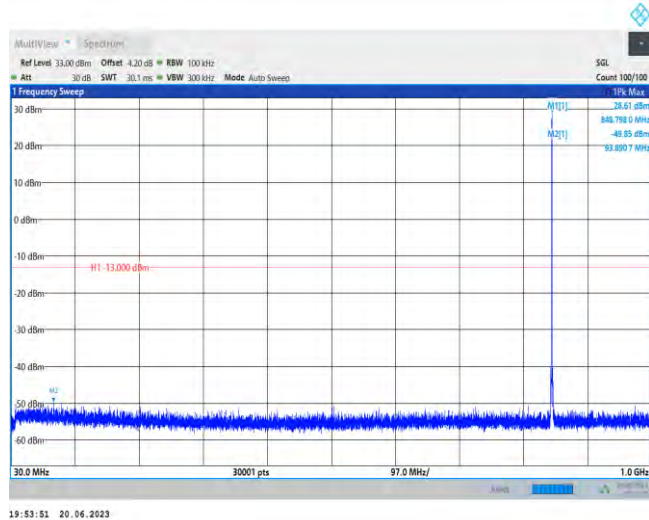
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EGPRS850-251-0.15~30MHz



EGPRS850-251-30~1000MHz

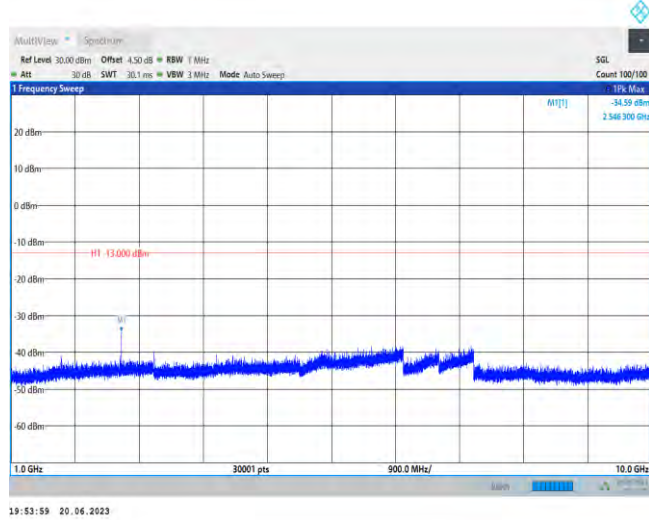


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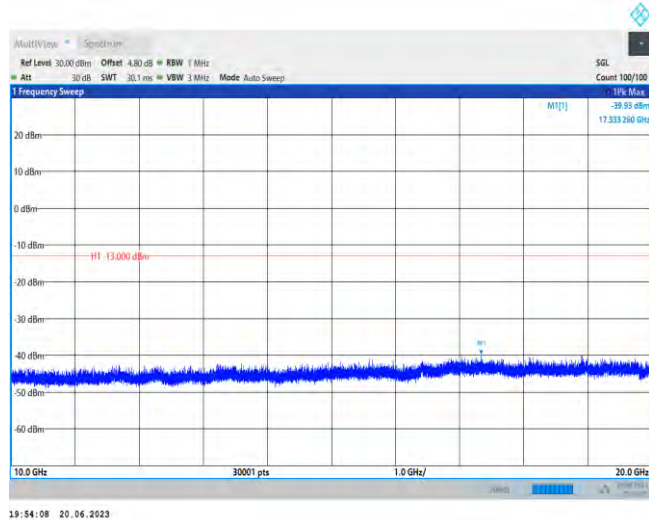
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EGPRS850-251-1000~10000MHz



EGPRS850-251-10000~20000MHz

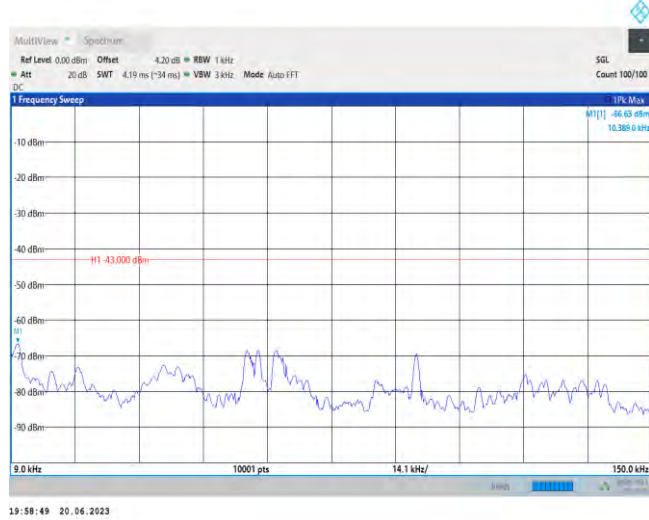


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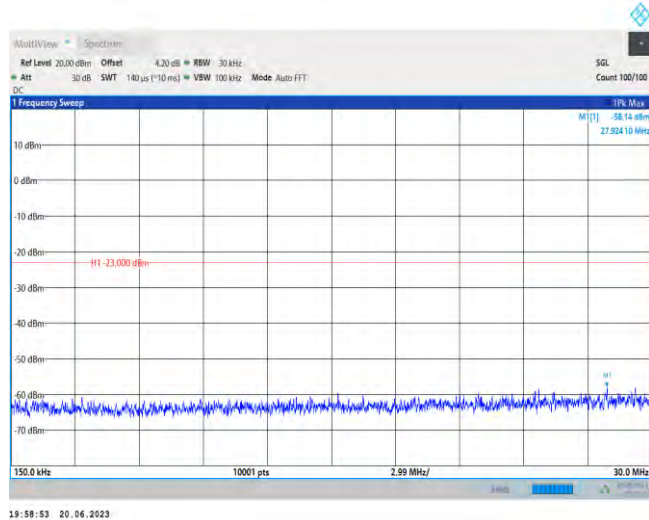
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GSM1900-512-0.009~0.15MHz



GSM1900-512-0.15~30MHz

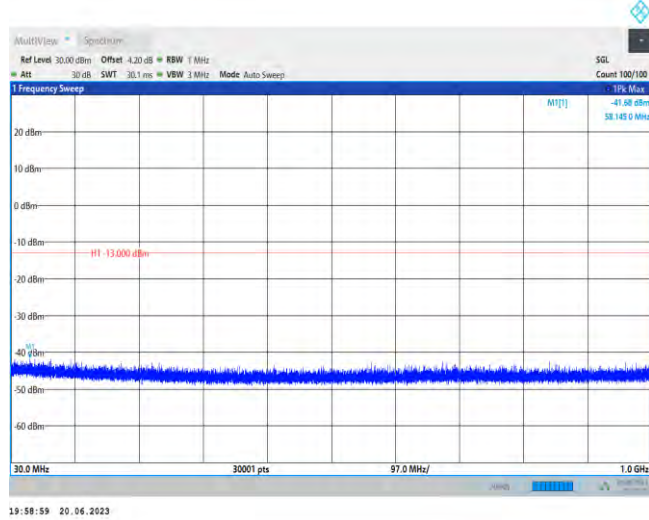


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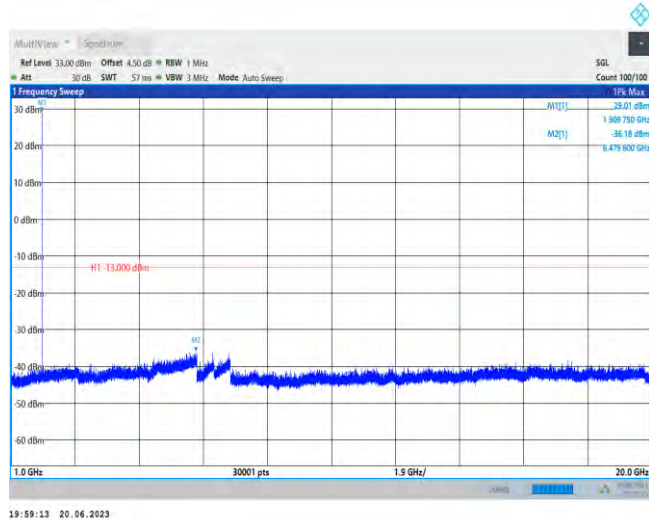
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GSM1900-512-30~1000MHz



GSM1900-512-1000~20000MHz

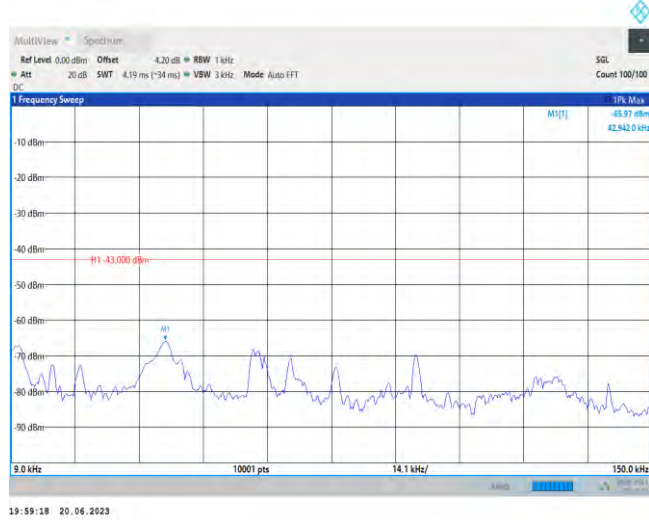


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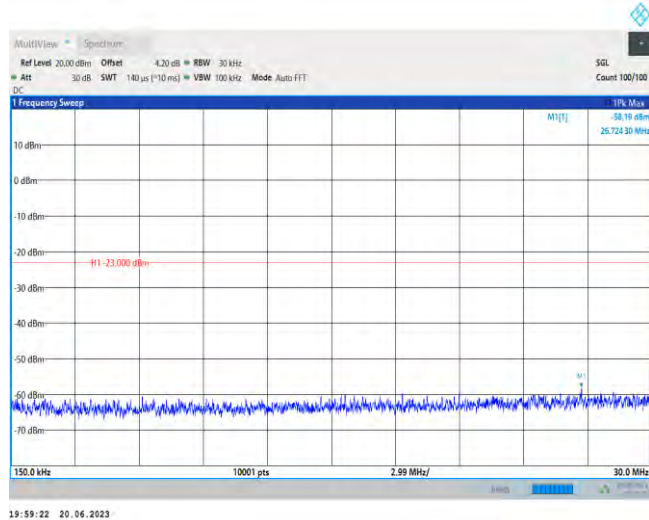
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GSM1900-661-0.009~0.15MHz

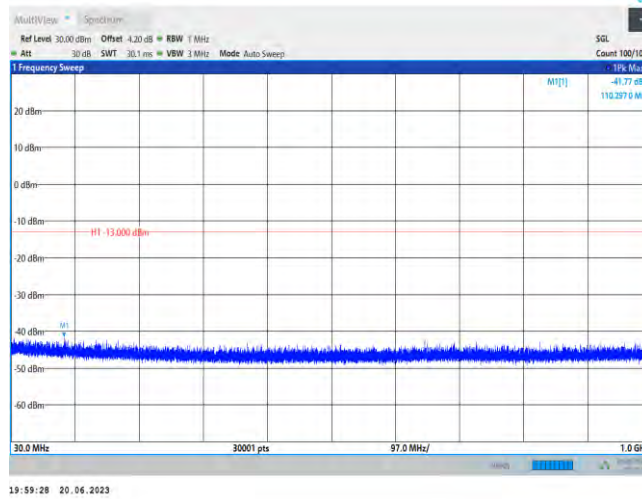


GSM1900-661-0.15~30MHz

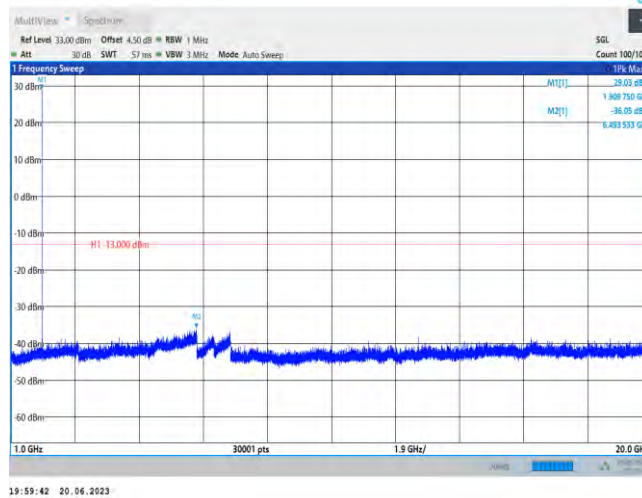


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GSM1900-661-30~1000MHz



GSM1900-661-1000~20000MHz

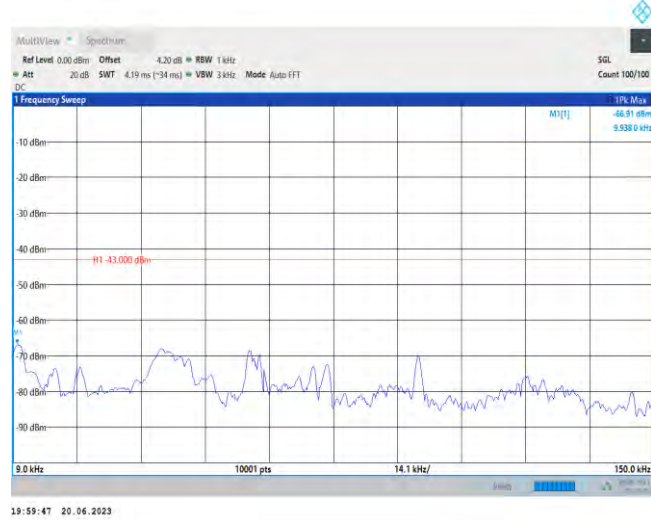


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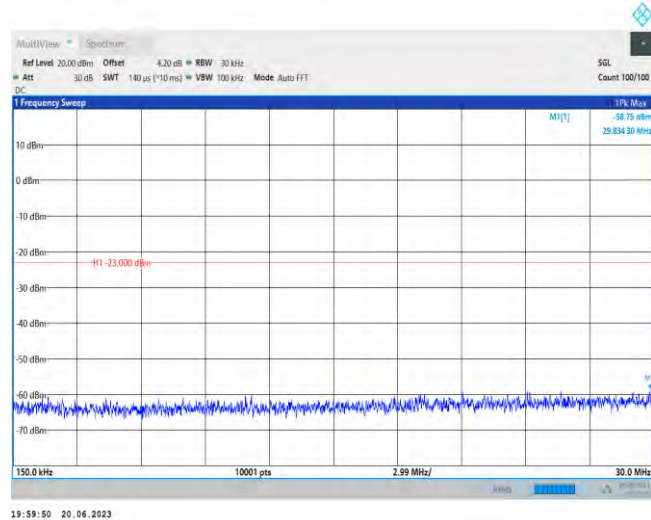
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GSM1900-810-0.009~0.15MHz

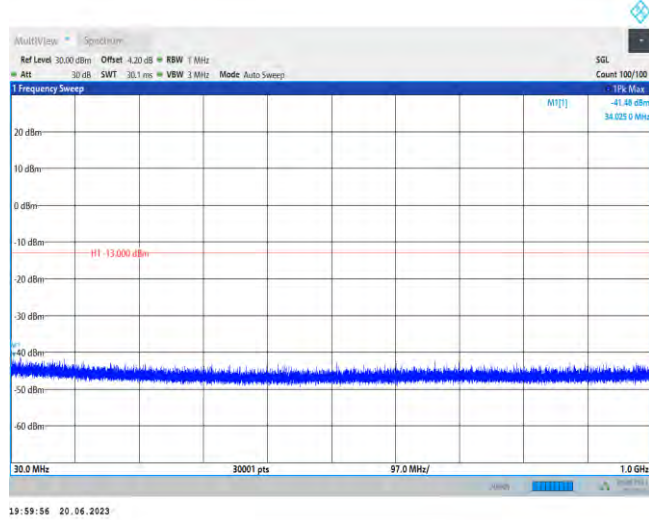


GSM1900-810-0.15~30MHz

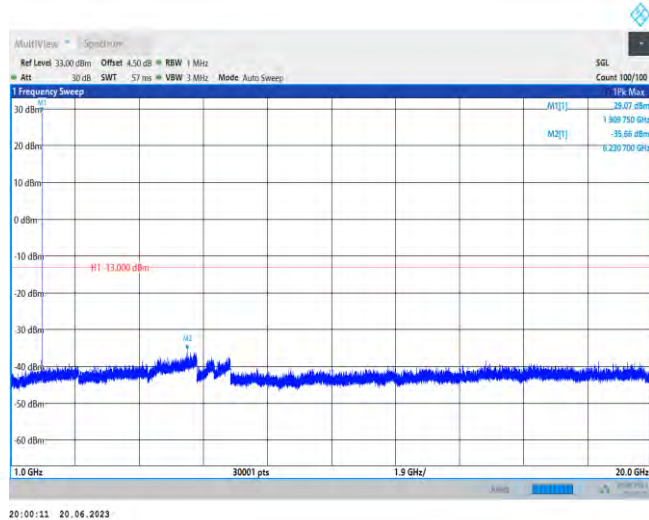


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GSM1900-810-30~1000MHz



GSM1900-810-1000~20000MHz

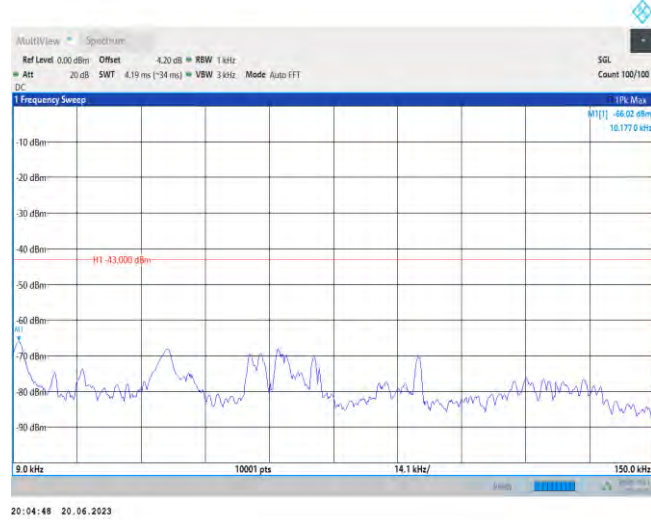


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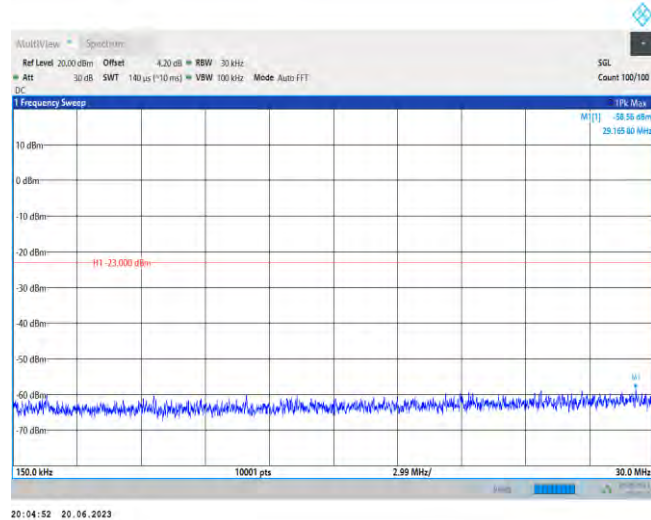
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EGPRS1900-512-0.009~0.15MHz



EGPRS1900-512-0.15~30MHz

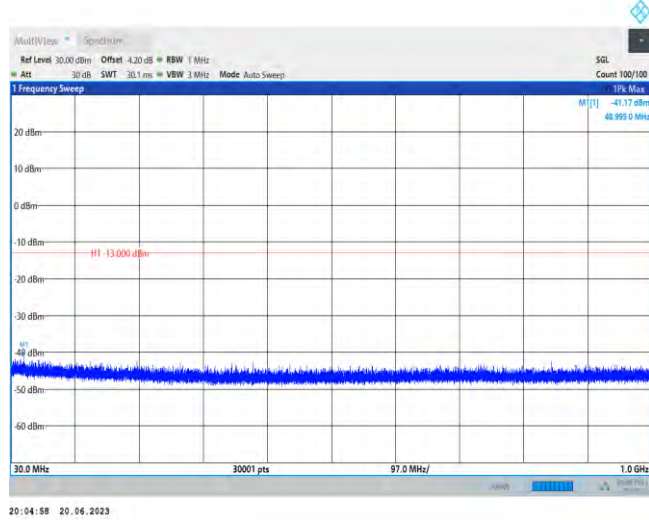


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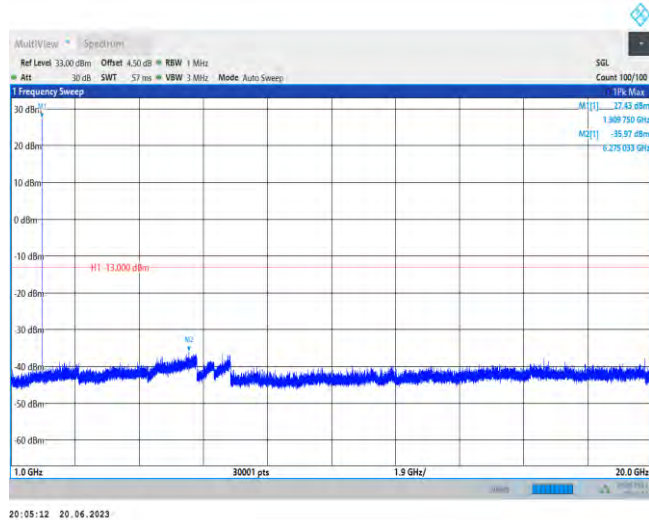
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EGPRS1900-512-30~1000MHz



EGPRS1900-512-1000~20000MHz

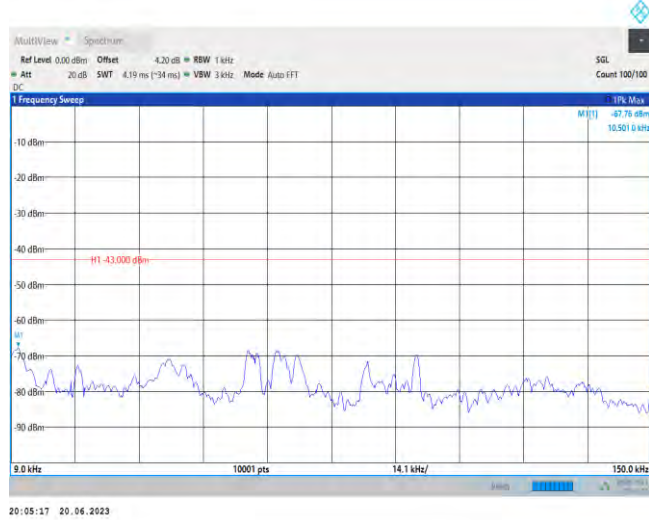


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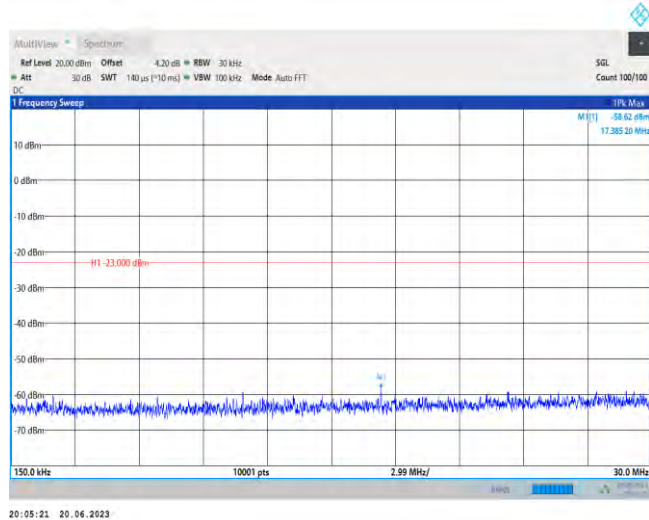
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EGPRS1900-661-0.009~0.15MHz



EGPRS1900-661-0.15~30MHz

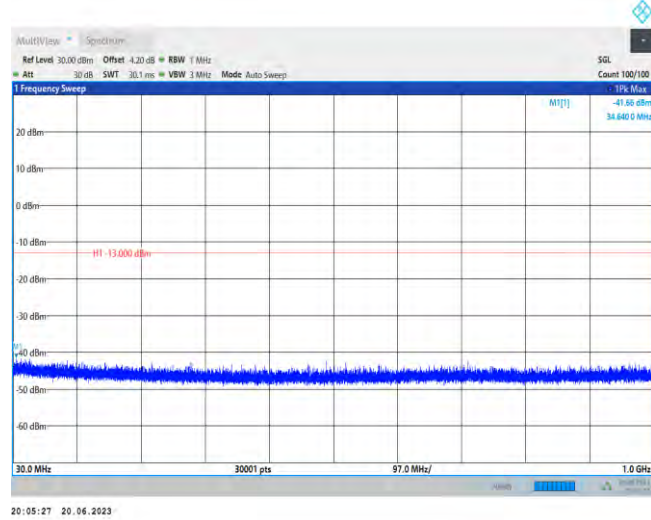


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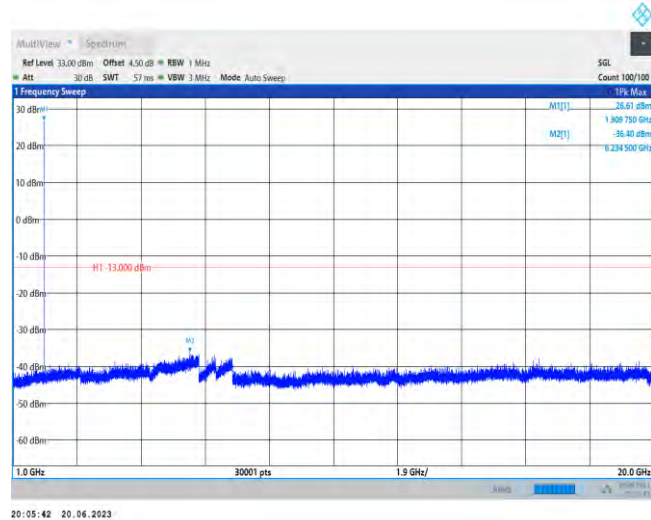
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EGPRS1900-661-30~1000MHz



EGPRS1900-661-1000~20000MHz

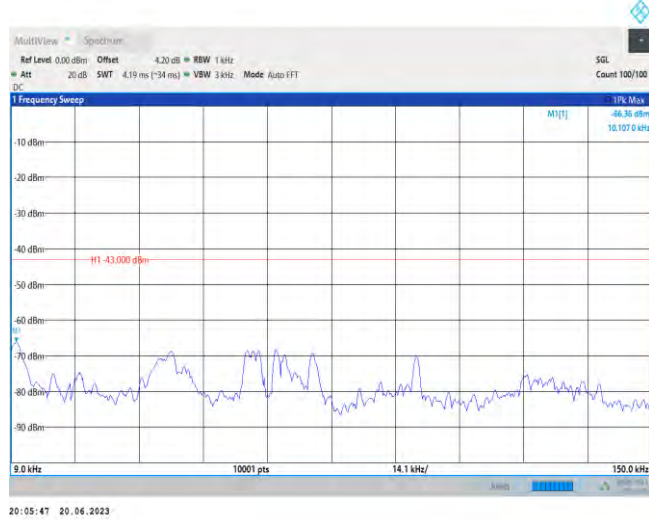


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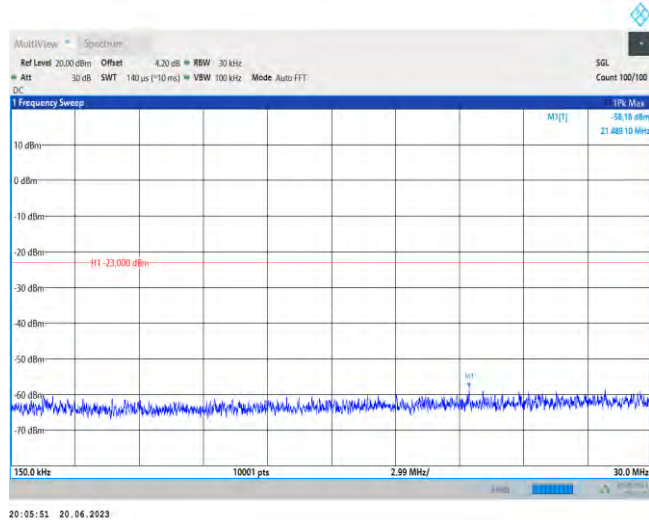
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EGPRS1900-810-0.009~0.15MHz



EGPRS1900-810-0.15~30MHz

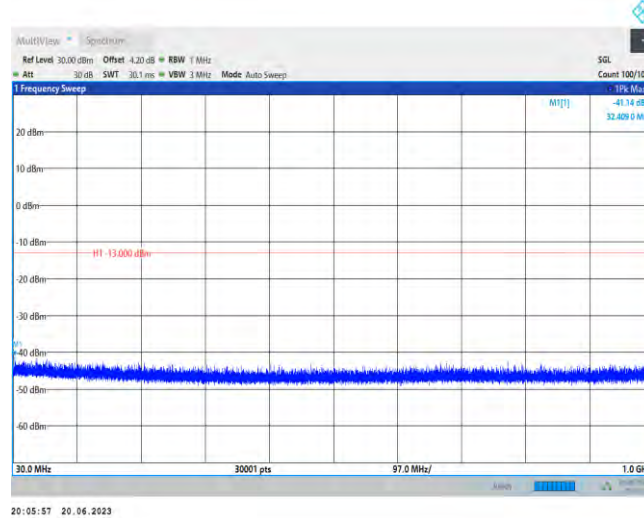


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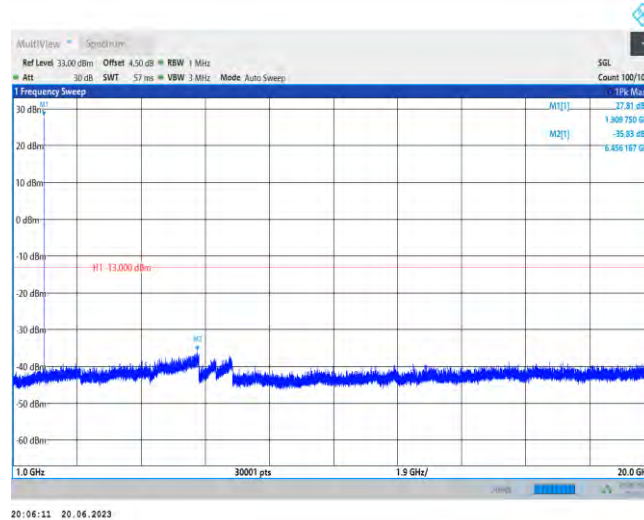
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EGPRS1900-810-30~1000MHz



EGPRS1900-810-1000~20000MHz



Field Strength of Spurious Radiation

Test Band = GSM850_TM1

Test Channel = Low ANT0

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1324.5714	45.72	-48.10	25.14	-72.50	-13.00	59.50	184	256	Horizontal
2	1808.5714	44.44	-47.96	25.52	-73.26	-13.00	60.26	178	348	Horizontal
3	2197.1429	44.44	-47.68	26.45	-72.05	-13.00	59.05	156	110	Horizontal
4	2616.5714	44.39	-46.95	27.53	-70.29	-13.00	57.29	192	281	Horizontal
5	3281.7143	43.78	-46.61	28.47	-69.62	-13.00	56.62	136	357	Horizontal
6	4885.7143	42.56	-45.59	31.15	-67.14	-13.00	54.14	258	56	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1323.4286	45.51	-48.10	25.14	-72.71	-13.00	59.71	154	3	Vertical
2	1595.4286	45.07	-48.28	25.20	-73.27	-13.00	60.27	233	359	Vertical
3	2415.4286	44.57	-47.42	27.06	-71.05	-13.00	58.05	261	3	Vertical
4	2657.7143	44.30	-47.00	27.62	-70.34	-13.00	57.34	159	359	Vertical
5	3509.7143	43.58	-46.52	28.61	-69.59	-13.00	56.59	175	13	Vertical
6	5404	42.22	-44.98	32.37	-65.65	-13.00	52.65	182	80	Vertical



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Test Band = GSM850_TM1
Test Channel = Mid ANT0

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1585.1429	45.03	-48.29	25.19	-73.32	-13.00	60.32	219	0	Horizontal
2	1995.4286	44.15	-47.91	25.89	-73.13	-13.00	60.13	186	335	Horizontal
3	2926.2857	43.85	-46.56	28.15	-69.81	-13.00	56.81	175	0	Horizontal
4	3493.7143	43.65	-46.54	28.60	-69.55	-13.00	56.55	145	136	Horizontal
5	4884	42.37	-45.59	31.14	-67.33	-13.00	54.33	136	163	Horizontal
6	6333.1429	40.78	-44.65	33.77	-65.37	-13.00	52.37	251	163	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1596	45.14	-48.28	25.20	-73.20	-13.00	60.20	185	118	Vertical
2	2045.7143	44.49	-47.81	26.03	-72.56	-13.00	59.56	156	145	Vertical
3	2810.2857	43.78	-46.88	27.92	-70.44	-13.00	57.44	198	356	Vertical
4	3190.2857	43.84	-46.33	28.41	-69.34	-13.00	56.34	172	251	Vertical
5	4095.4286	42.34	-45.91	29.33	-69.50	-13.00	56.50	142	239	Vertical
6	6014.2857	41.37	-44.47	32.75	-65.61	-13.00	52.61	160	145	Vertical



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Test Band = GSM850_TM1
 Test Channel = High ANT0

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1438.8571	45.79	-48.12	25.12	-72.47	-13.00	59.47	123	334	Horizontal
2	1852.5714	44.77	-48.00	25.61	-72.89	-13.00	59.89	166	228	Horizontal
3	2408	44.58	-47.44	27.04	-71.07	-13.00	58.07	153	255	Horizontal
4	3043.4286	43.83	-46.62	28.33	-69.72	-13.00	56.72	172	334	Horizontal
5	3804.5714	42.37	-46.16	28.90	-70.15	-13.00	57.15	143	1	Horizontal
6	4920	42.30	-45.63	31.22	-67.36	-13.00	54.36	160	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	1604	45.02	-48.28	25.21	-73.31	-13.00	60.31	188	290	Vertical
2	2228	44.52	-47.63	26.54	-71.83	-13.00	58.83	175	117	Vertical
3	2954.8571	43.49	-46.54	28.21	-70.10	-13.00	57.10	256	132	Vertical
4	3483.4286	43.69	-46.54	28.59	-69.52	-13.00	56.52	291	3	Vertical
5	3973.1429	42.84	-46.21	29.07	-69.55	-13.00	56.55	145	360	Vertical
6	5957.7143	41.82	-44.66	32.69	-65.41	-13.00	52.41	153	236	Vertical



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Test Band = GSM850_TM1
 Test Channel = Low ANT1

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1617.7143	44.93	-48.26	25.23	-73.36	-13.00	60.36	211	280	Horizontal
2	1986.2857	44.66	-47.92	25.87	-72.65	-13.00	59.65	130	280	Horizontal
3	2496	44.11	-47.28	27.29	-71.14	-13.00	58.14	185	0	Horizontal
4	3164	43.82	-46.46	28.40	-69.50	-13.00	56.50	179	280	Horizontal
5	3970.8571	42.76	-46.21	29.07	-69.64	-13.00	56.64	186	332	Horizontal
6	5447.4286	41.67	-45.05	32.47	-66.17	-13.00	53.17	140	293	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1601.1429	45.15	-48.28	25.20	-73.19	-13.00	60.19	187	106	Vertical
2	2092.5714	44.39	-47.72	26.16	-72.43	-13.00	59.43	189	4	Vertical
3	2600.5714	44.14	-46.93	27.50	-70.55	-13.00	57.55	153	67	Vertical
4	3023.4286	43.77	-46.57	28.31	-69.75	-13.00	56.75	261	360	Vertical
5	3948	42.49	-46.22	29.05	-69.94	-13.00	56.94	144	264	Vertical
6	5408	41.50	-44.98	32.38	-66.36	-13.00	53.36	150	26	Vertical



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Test Band = GSM850_TM1
 Test Channel = Mid ANT1

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1504	45.33	-48.32	25.15	-73.10	-13.00	60.10	103	244	Horizontal
2	1934.2857	45.06	-48.00	25.77	-72.43	-13.00	59.43	153	44	Horizontal
3	2524.5714	44.14	-47.19	27.35	-70.96	-13.00	57.96	261	97	Horizontal
4	3169.1429	44.01	-46.43	28.40	-69.28	-13.00	56.28	184	322	Horizontal
5	4100.5714	42.33	-45.90	29.34	-69.49	-13.00	56.49	158	163	Horizontal
6	5501.7143	41.85	-45.14	32.60	-65.95	-13.00	52.95	186	19	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1593.7143	45.07	-48.28	25.20	-73.28	-13.00	60.28	255	359	Vertical
2	2086.8571	44.59	-47.73	26.14	-72.26	-13.00	59.26	159	239	Vertical
3	2641.1429	44.08	-46.98	27.58	-70.58	-13.00	57.58	175	356	Vertical
4	3219.4286	43.96	-46.37	28.43	-69.23	-13.00	56.23	142	292	Vertical
5	3773.1429	42.79	-46.16	28.87	-69.75	-13.00	56.75	199	318	Vertical
6	4919.4286	42.86	-45.62	31.22	-66.80	-13.00	53.80	180	212	Vertical



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Test Band = GSM850_TM1
Test Channel = High ANT1

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1183.4286	45.69	-48.52	25.21	-72.89	-13.00	59.89	163	322	Horizontal
2	1476	44.93	-48.24	25.14	-73.44	-13.00	60.44	188	284	Horizontal
3	2045.1429	44.26	-47.81	26.03	-72.79	-13.00	59.79	126	230	Horizontal
4	3262.8571	43.94	-46.54	28.46	-69.40	-13.00	56.40	123	44	Horizontal
5	4890.8571	42.54	-45.59	31.16	-67.15	-13.00	54.15	299	217	Horizontal
6	5982.2857	41.59	-44.53	32.70	-65.50	-13.00	52.50	158	5	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1627.4286	45.16	-48.25	25.24	-73.11	-13.00	60.11	168	78	Vertical
2	2091.4286	44.53	-47.73	26.16	-72.30	-13.00	59.30	175	171	Vertical
3	2664	44.05	-47.01	27.63	-70.59	-13.00	57.59	145	330	Vertical
4	3130.2857	44.19	-46.61	28.38	-69.30	-13.00	56.30	192	78	Vertical
5	4100.5714	42.42	-45.90	29.34	-69.40	-13.00	56.40	156	359	Vertical
6	4930.2857	42.48	-45.65	31.25	-67.18	-13.00	54.18	183	171	Vertical



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Test Band = GSM1900_TM1
 Test Channel = Low ANT0

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4872.75	41.45	-45.53	31.12	-68.22	-13.00	55.22	211	0	Horizontal
2	5529	41.10	-45.19	32.61	-66.74	-13.00	53.74	145	240	Horizontal
3	6841.5	40.52	-44.14	34.91	-63.97	-13.00	50.97	185	0	Horizontal
4	8331.75	38.33	-41.83	36.63	-62.13	-13.00	49.13	186	76	Horizontal
5	9417.75	35.67	-39.90	37.09	-62.40	-13.00	49.40	192	121	Horizontal
6	12223.5	30.18	-37.47	38.87	-63.68	-13.00	50.68	170	331	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4593.75	42.28	-45.67	30.51	-68.15	-13.00	55.15	230	120	Vertical
2	5431.5	41.34	-45.28	32.44	-66.77	-13.00	53.77	152	73	Vertical
3	6447	40.25	-44.50	34.13	-65.38	-13.00	52.38	128	301	Vertical
4	7413.75	40.17	-43.37	36.36	-62.10	-13.00	49.10	196	179	Vertical
5	9152.25	35.72	-40.30	36.59	-63.25	-13.00	50.25	251	104	Vertical
6	12100.5	29.65	-37.34	38.83	-64.12	-13.00	51.12	153	360	Vertical



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Test Band = GSM1900_TM1

Test Channel = Mid ANT0

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4278	42.02	-45.59	29.77	-69.06	-13.00	56.06	218	302	Horizontal
2	4947	42.13	-45.58	31.28	-67.43	-13.00	54.43	158	196	Horizontal
3	6016.5	41.07	-44.77	32.75	-66.20	-13.00	53.20	172	3	Horizontal
4	6992.25	40.06	-43.59	35.19	-63.61	-13.00	50.61	166	121	Horizontal
5	8406	37.91	-41.46	36.60	-62.21	-13.00	49.21	236	242	Horizontal
6	10701.75	32.57	-37.89	38.55	-62.03	-13.00	49.03	152	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	4277.25	41.93	-45.59	29.77	-69.16	-13.00	56.16	196	360	Vertical
2	5201.25	41.13	-45.28	31.88	-67.52	-13.00	54.52	158	360	Vertical
3	6673.5	40.06	-43.95	34.61	-64.54	-13.00	51.54	172	256	Vertical
4	7715.25	39.42	-43.00	36.69	-62.15	-13.00	49.15	145	256	Vertical
5	9610.5	35.46	-39.65	37.46	-61.99	-13.00	48.99	156	224	Vertical
6	12145.5	30.07	-37.41	38.84	-63.75	-13.00	50.75	129	135	Vertical



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Test Band = GSM1900_TM1
 Test Channel = High ANT0

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4897.5	42.49	-45.53	31.17	-67.13	-13.00	54.13	122	164	Horizontal
2	5831.25	41.23	-44.82	32.67	-66.18	-13.00	53.18	154	224	Horizontal
3	7237.5	39.16	-43.54	35.87	-63.78	-13.00	50.78	166	285	Horizontal
4	8035.5	38.17	-42.00	36.78	-62.31	-13.00	49.31	192	7	Horizontal
5	9605.25	35.20	-39.66	37.45	-62.27	-13.00	49.27	150	314	Horizontal
6	11446.5	31.46	-37.34	38.74	-62.40	-13.00	49.40	146	103	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4122	41.74	-45.76	29.39	-69.89	-13.00	56.89	187	3	Vertical
2	5689.5	40.51	-44.87	32.64	-66.99	-13.00	53.99	149	14	Vertical
3	6792	40.44	-44.14	34.83	-64.14	-13.00	51.14	185	179	Vertical
4	7855.5	38.63	-42.59	36.74	-62.48	-13.00	49.48	156	29	Vertical
5	9645	35.02	-39.57	37.53	-62.28	-13.00	49.28	231	360	Vertical
6	12224.25	30.40	-37.47	38.87	-63.46	-13.00	50.46	162	120	Vertical



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Test Band = GSM1900_TM1
 Test Channel = Low ANT1

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4422.75	41.96	-45.79	30.11	-68.98	-13.00	55.98	126	42	Horizontal
2	5730.75	40.95	-44.82	32.65	-66.48	-13.00	53.48	154	269	Horizontal
3	6675.75	40.81	-43.94	34.62	-63.77	-13.00	50.77	133	148	Horizontal
4	8408.25	38.41	-41.46	36.60	-61.72	-13.00	48.72	189	0	Horizontal
5	10005.75	33.95	-39.23	38.20	-62.34	-13.00	49.34	175	314	Horizontal
6	12109.5	29.94	-37.35	38.83	-63.84	-13.00	50.84	129	254	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4572	41.77	-45.68	30.46	-68.71	-13.00	55.71	285	60	Vertical
2	5709	41.22	-44.84	32.64	-66.24	-13.00	53.24	175	317	Vertical
3	7215	39.22	-43.47	35.80	-63.71	-13.00	50.71	149	4	Vertical
4	8085.75	37.32	-41.50	36.76	-62.68	-13.00	49.68	192	331	Vertical
5	10079.25	34.12	-39.14	38.24	-62.05	-13.00	49.05	130	4	Vertical
6	11449.5	31.44	-37.34	38.74	-62.42	-13.00	49.42	163	359	Vertical



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Test Band = GSM1900_TM1
 Test Channel = Mid ANT1

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4876.5	42.29	-45.53	31.13	-67.37	-13.00	54.37	265	239	Horizontal
2	5839.5	40.88	-44.84	32.67	-66.55	-13.00	53.55	158	316	Horizontal
3	7233.75	39.26	-43.53	35.85	-63.68	-13.00	50.68	174	0	Horizontal
4	8033.25	37.92	-42.02	36.78	-62.58	-13.00	49.58	185	0	Horizontal
5	9420	35.58	-39.91	37.10	-62.49	-13.00	49.49	196	239	Horizontal
6	14632.5	28.55	-35.08	41.15	-60.64	-13.00	47.64	126	285	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4247.25	41.61	-45.66	29.69	-69.62	-13.00	56.62	231	330	Vertical
2	4971	41.75	-45.61	31.34	-67.78	-13.00	54.78	185	268	Vertical
3	6325.5	40.62	-44.51	33.74	-65.41	-13.00	52.41	145	3	Vertical
4	7161	40.03	-43.73	35.65	-63.31	-13.00	50.31	186	359	Vertical
5	8406.75	38.60	-41.46	36.60	-61.52	-13.00	48.52	192	177	Vertical
6	11436.75	32.27	-37.35	38.74	-61.59	-13.00	48.59	170	253	Vertical



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Test Band = GSM1900_TM1
 Test Channel = High ANT1

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3015.75	43.24	-45.70	28.31	-69.41	-13.00	56.41	100	299	Horizontal
2	4265.25	41.44	-45.62	29.74	-69.70	-13.00	56.70	274	0	Horizontal
3	5212.5	41.29	-45.26	31.91	-67.32	-13.00	54.32	159	2	Horizontal
4	6175.5	40.17	-44.68	33.26	-66.51	-13.00	53.51	186	0	Horizontal
5	7260.75	39.57	-43.62	35.93	-63.38	-13.00	50.38	153	344	Horizontal
6	8704.5	37.55	-41.67	36.45	-62.93	-13.00	49.93	162	163	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4419.75	42.09	-45.80	30.11	-68.86	-13.00	55.86	291	210	Vertical
2	5690.25	40.65	-44.87	32.64	-66.84	-13.00	53.84	158	360	Vertical
3	6699	40.21	-43.82	34.66	-64.21	-13.00	51.21	176	300	Vertical
4	8244	38.25	-42.18	36.68	-62.52	-13.00	49.52	183	225	Vertical
5	9610.5	35.02	-39.65	37.46	-62.43	-13.00	49.43	261	225	Vertical
6	12207.75	30.56	-37.48	38.86	-63.32	-13.00	50.32	145	103	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	3.78	0.004518	±2.5	PASS
GSM850	190	VN	NT	5.71	0.006825	±2.5	PASS
GSM850	190	VH	NT	5.75	0.006873	±2.5	PASS
EGPRS850	190	VL	NT	-9.65	-0.011535	±2.5	PASS
EGPRS850	190	VN	NT	-6.10	-0.007291	±2.5	PASS
EGPRS850	190	VH	NT	-4.20	-0.005020	±2.5	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	11.49	0.006112	PASS
GSM1900	661	VN	NT	11.43	0.006080	PASS
GSM1900	661	VH	NT	12.59	0.006697	PASS
EGPRS1900	661	VL	NT	15.46	0.008223	PASS
EGPRS1900	661	VN	NT	17.37	0.009239	PASS
EGPRS1900	661	VH	NT	17.14	0.009117	PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	4.62	0.005522	±2.5	PASS
GSM850	190	NV	-20	8.62	0.010304	±2.5	PASS
GSM850	190	NV	-10	7.30	0.008726	±2.5	PASS
GSM850	190	NV	0	5.04	0.006024	±2.5	PASS
GSM850	190	NV	10	7.85	0.009383	±2.5	PASS
GSM850	190	NV	20	3.23	0.003861	±2.5	PASS
GSM850	190	NV	30	6.46	0.007722	±2.5	PASS
GSM850	190	NV	40	6.26	0.007483	±2.5	PASS
GSM850	190	NV	50	3.42	0.004088	±2.5	PASS
EGPRS850	190	NV	-30	-6.49	-0.007758	±2.5	PASS
EGPRS850	190	NV	-20	-5.10	-0.006096	±2.5	PASS
EGPRS850	190	NV	-10	-6.78	-0.008104	±2.5	PASS
EGPRS850	190	NV	0	-4.39	-0.005247	±2.5	PASS
EGPRS850	190	NV	10	-4.84	-0.005785	±2.5	PASS
EGPRS850	190	NV	20	-3.16	-0.003777	±2.5	PASS
EGPRS850	190	NV	30	-5.75	-0.006873	±2.5	PASS
EGPRS850	190	NV	40	-5.20	-0.006216	±2.5	PASS
EGPRS850	190	NV	50	-4.78	-0.005714	±2.5	PASS



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Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	11.07	0.005888	PASS
GSM1900	661	NV	-20	15.69	0.008346	PASS
GSM1900	661	NV	-10	13.95	0.007420	PASS
GSM1900	661	NV	0	12.75	0.006782	PASS
GSM1900	661	NV	10	14.04	0.007468	PASS
GSM1900	661	NV	20	13.50	0.007181	PASS
GSM1900	661	NV	30	12.98	0.006904	PASS
GSM1900	661	NV	40	13.01	0.006920	PASS
GSM1900	661	NV	50	11.01	0.005856	PASS
EGPRS1900	661	NV	-30	23.70	0.012606	PASS
EGPRS1900	661	NV	-20	16.56	0.008809	PASS
EGPRS1900	661	NV	-10	18.47	0.009824	PASS
EGPRS1900	661	NV	0	19.69	0.010473	PASS
EGPRS1900	661	NV	10	14.43	0.007676	PASS
EGPRS1900	661	NV	20	16.43	0.008739	PASS
EGPRS1900	661	NV	30	16.01	0.008516	PASS
EGPRS1900	661	NV	40	19.47	0.010356	PASS
EGPRS1900	661	NV	50	14.79	0.007867	PASS

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