



Report No.: SEWM2305000166RG01

Rev.: 01

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# Appendix B.1

## GSM 850&1900



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

#### GSM 850 Ant 41:

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.49	24.60	38.50	PASS
GSM850	190	32.71	24.82	38.50	PASS
GSM850	251	32.65	24.76	38.50	PASS

Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.80	18.91	38.50	PASS
EGPRS850	128	2	24.73	16.84	38.50	PASS
EGPRS850	128	3	22.70	14.81	38.50	PASS
EGPRS850	128	4	20.93	13.04	38.50	PASS
EGPRS850	190	1	26.88	18.99	38.50	PASS
EGPRS850	190	2	24.74	16.85	38.50	PASS
EGPRS850	190	3	22.92	15.03	38.50	PASS
EGPRS850	190	4	21.42	13.53	38.50	PASS
EGPRS850	251	1	26.82	18.93	38.50	PASS
EGPRS850	251	2	24.82	16.93	38.50	PASS
EGPRS850	251	3	22.81	14.92	38.50	PASS
EGPRS850	251	4	21.17	13.28	38.50	PASS



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**GSM 1900 Ant 31:**

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	30.24	28.81	33.00	PASS
GSM1900	661	30.11	28.68	33.00	PASS
GSM1900	810	30.05	28.62	33.00	PASS

Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	25.5	24.07	33.00	PASS
EGPRS1900	512	2	23.62	22.19	33.00	PASS
EGPRS1900	512	3	21.65	20.22	33.00	PASS
EGPRS1900	512	4	19.94	18.51	33.00	PASS
EGPRS1900	661	1	25.94	24.51	33.00	PASS
EGPRS1900	661	2	23.98	22.55	33.00	PASS
EGPRS1900	661	3	21.91	20.48	33.00	PASS
EGPRS1900	661	4	20.14	18.71	33.00	PASS
EGPRS1900	810	1	25.85	24.42	33.00	PASS
EGPRS1900	810	2	24.12	22.69	33.00	PASS
EGPRS1900	810	3	22.12	20.69	33.00	PASS
EGPRS1900	810	4	20.27	18.84	33.00	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.7	13	PASS
GSM850	190	9.72	13	PASS
GSM850	251	9.78	13	PASS
EGPRS850	128	12.8	13	PASS
EGPRS850	190	12.84	13	PASS
EGPRS850	251	12.82	13	PASS
GSM1900	512	9.68	13	PASS
GSM1900	661	9.78	13	PASS
GSM1900	810	9.74	13	PASS
EGPRS1900	512	12.36	13	PASS
EGPRS1900	661	12.2	13	PASS
EGPRS1900	810	12.34	13	PASS

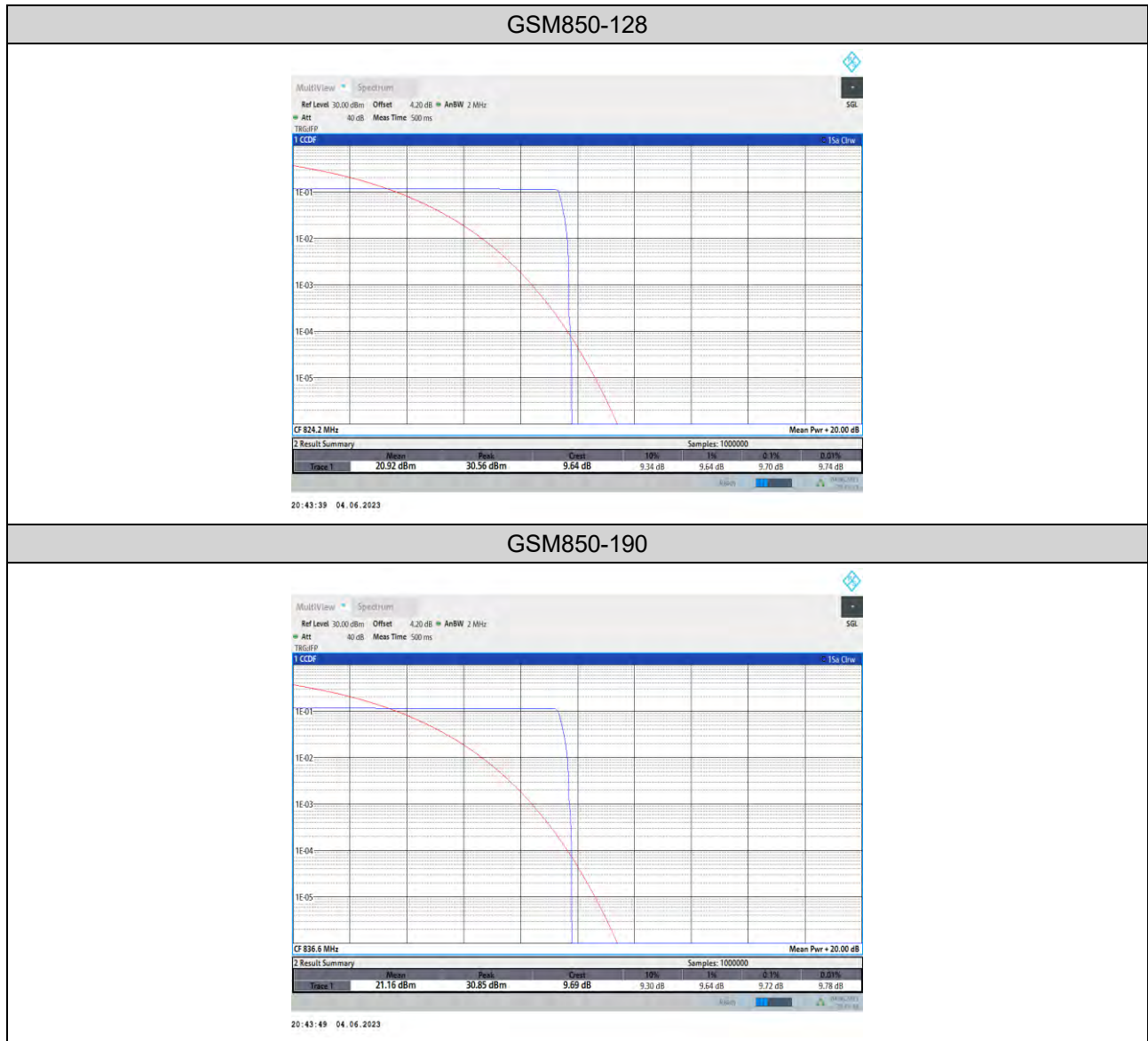


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Test Graphs

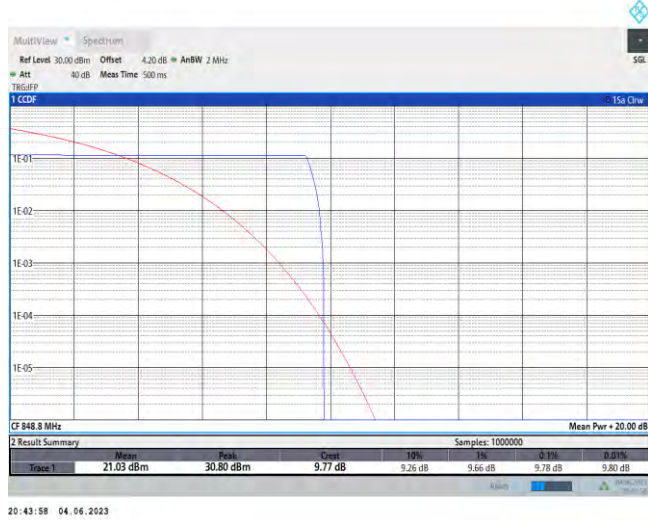


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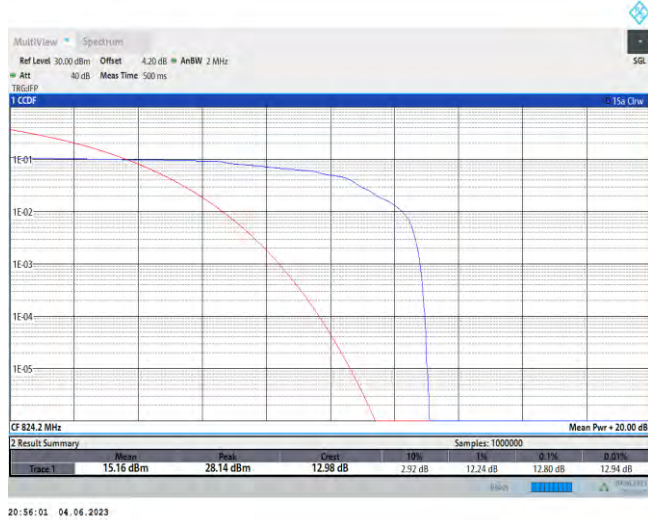
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GSM850-251



EGPRS850-128

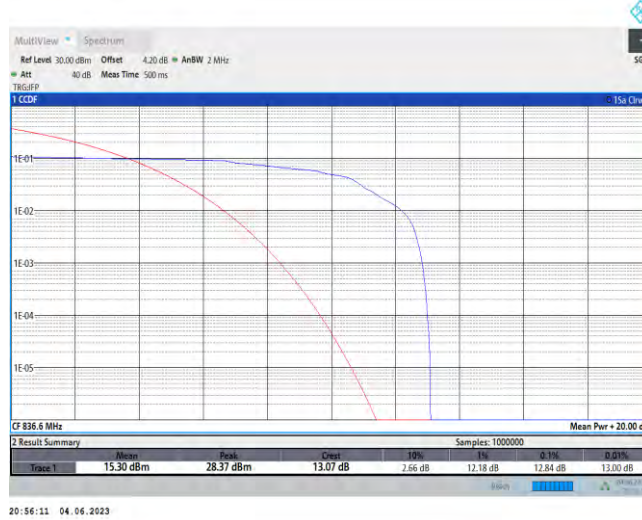


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EGPRS850-190



20:56:11 04.06.2023

EGPRS850-251



20:56:21 04.06.2023

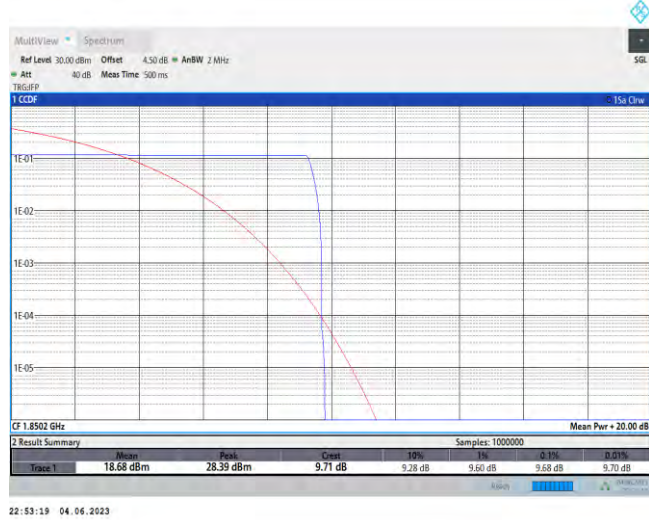


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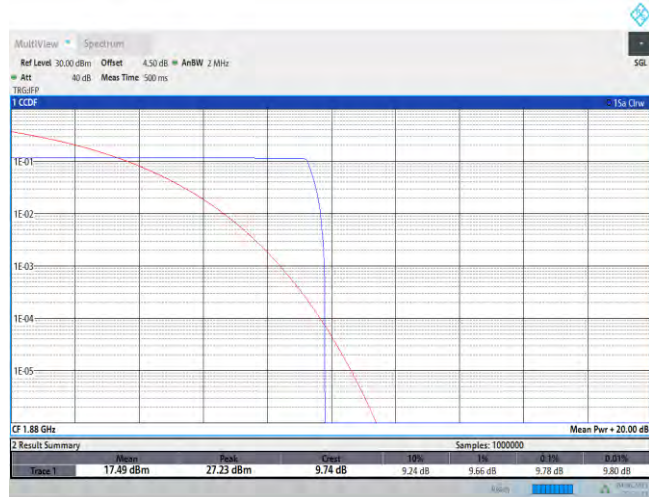
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GSM1900-512



22:53:19 04.06.2023

GSM1900-661



22:53:29 04.06.2023



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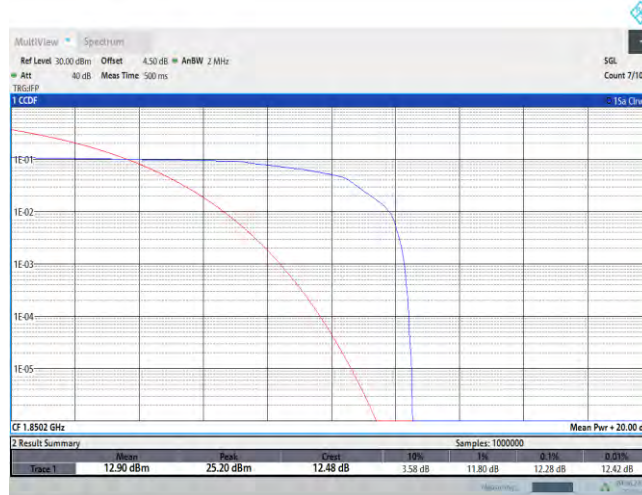


GSM1900-810



22:53:38 04.06.2023

EGPRS1900-512



23:01:04 04.06.2023

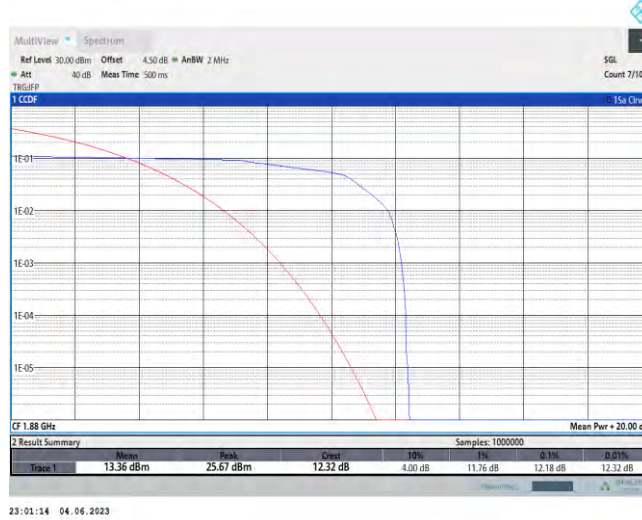


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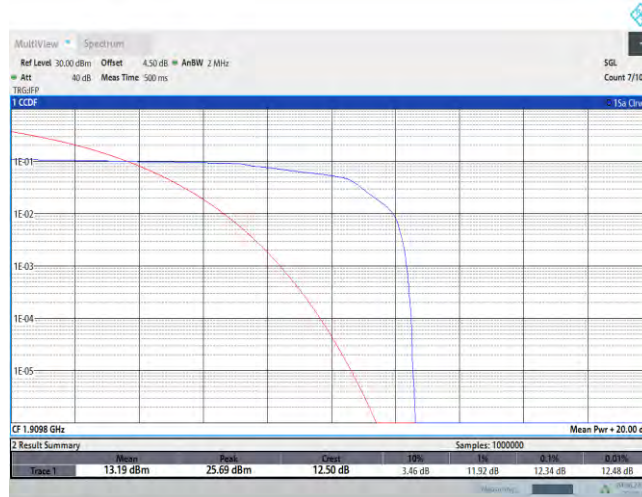
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EGPRS1900-661



23:01:14 04.06.2023

EGPRS1900-810



23:01:24 04.06.2023



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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



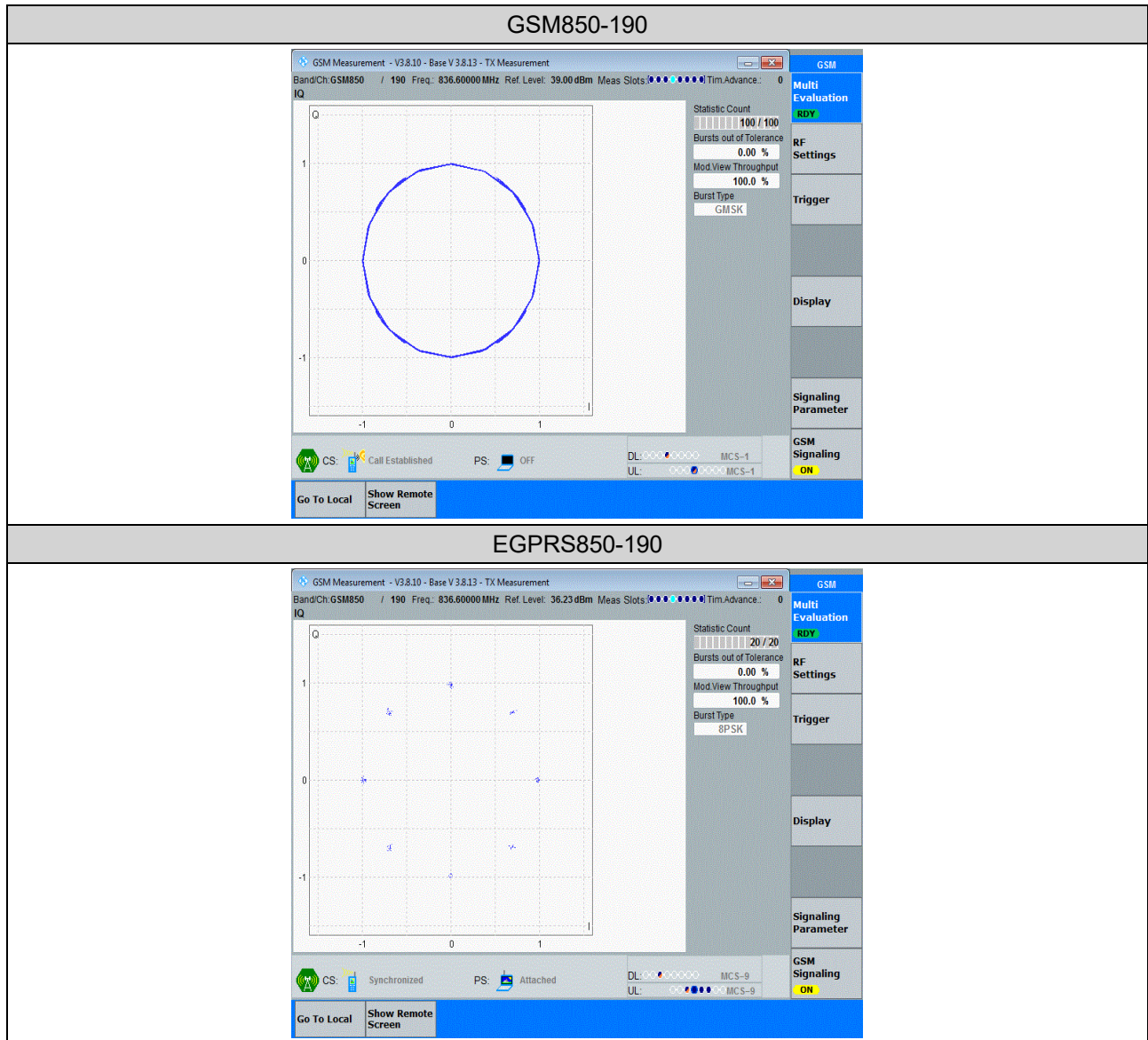
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Test Graphs



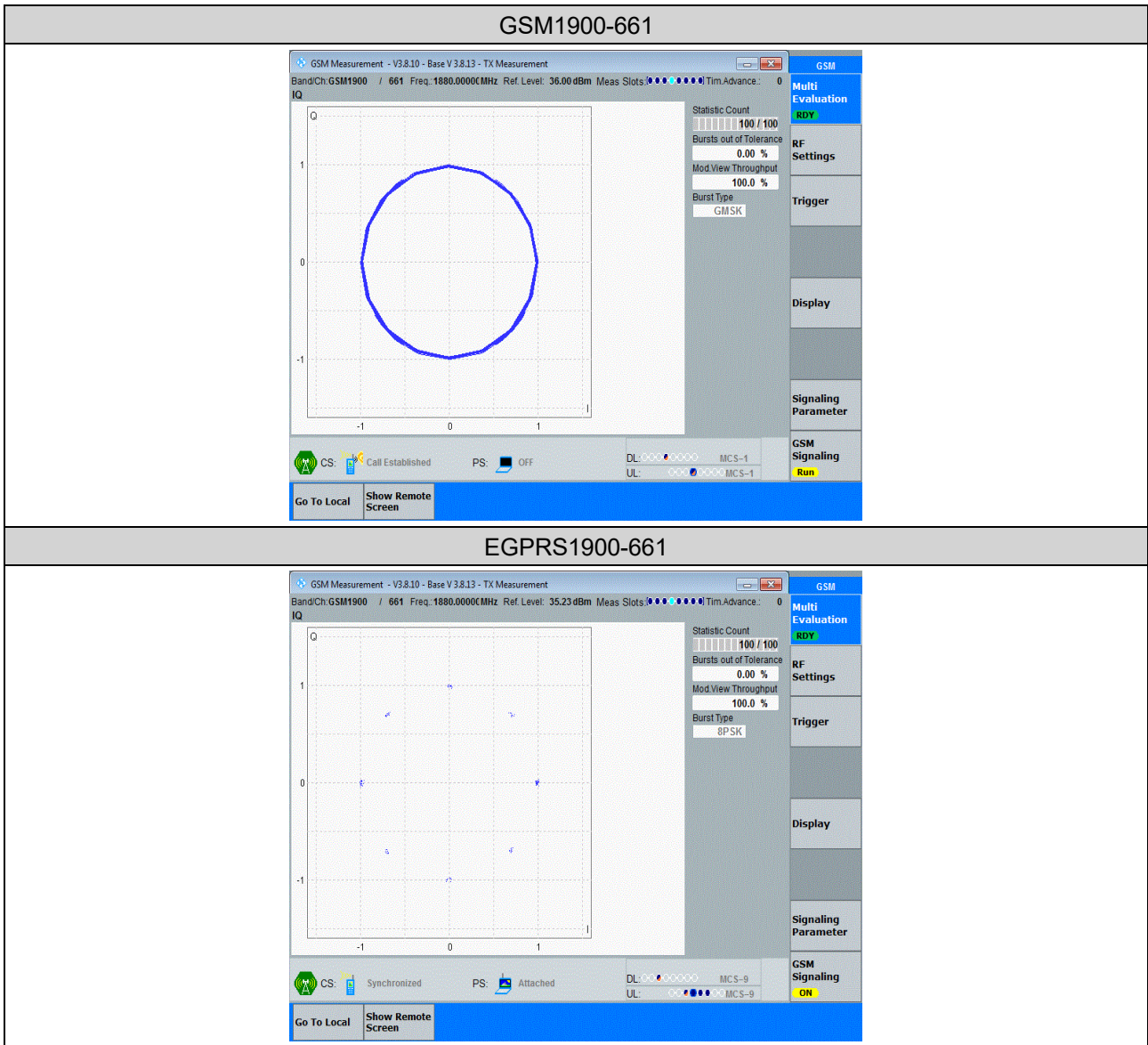
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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.244	0.32	---	PASS
GSM850	190	0.244	0.32	---	PASS
GSM850	251	0.245	0.32	---	PASS
EGPRS850	128	0.247	0.32	---	PASS
EGPRS850	190	0.245	0.31	---	PASS
EGPRS850	251	0.245	0.32	---	PASS
GSM1900	512	0.244	0.32	---	PASS
GSM1900	661	0.244	0.32	---	PASS
GSM1900	810	0.243	0.32	---	PASS
EGPRS1900	512	0.256	0.32	---	PASS
EGPRS1900	661	0.257	0.33	---	PASS
EGPRS1900	810	0.253	0.33	---	PASS



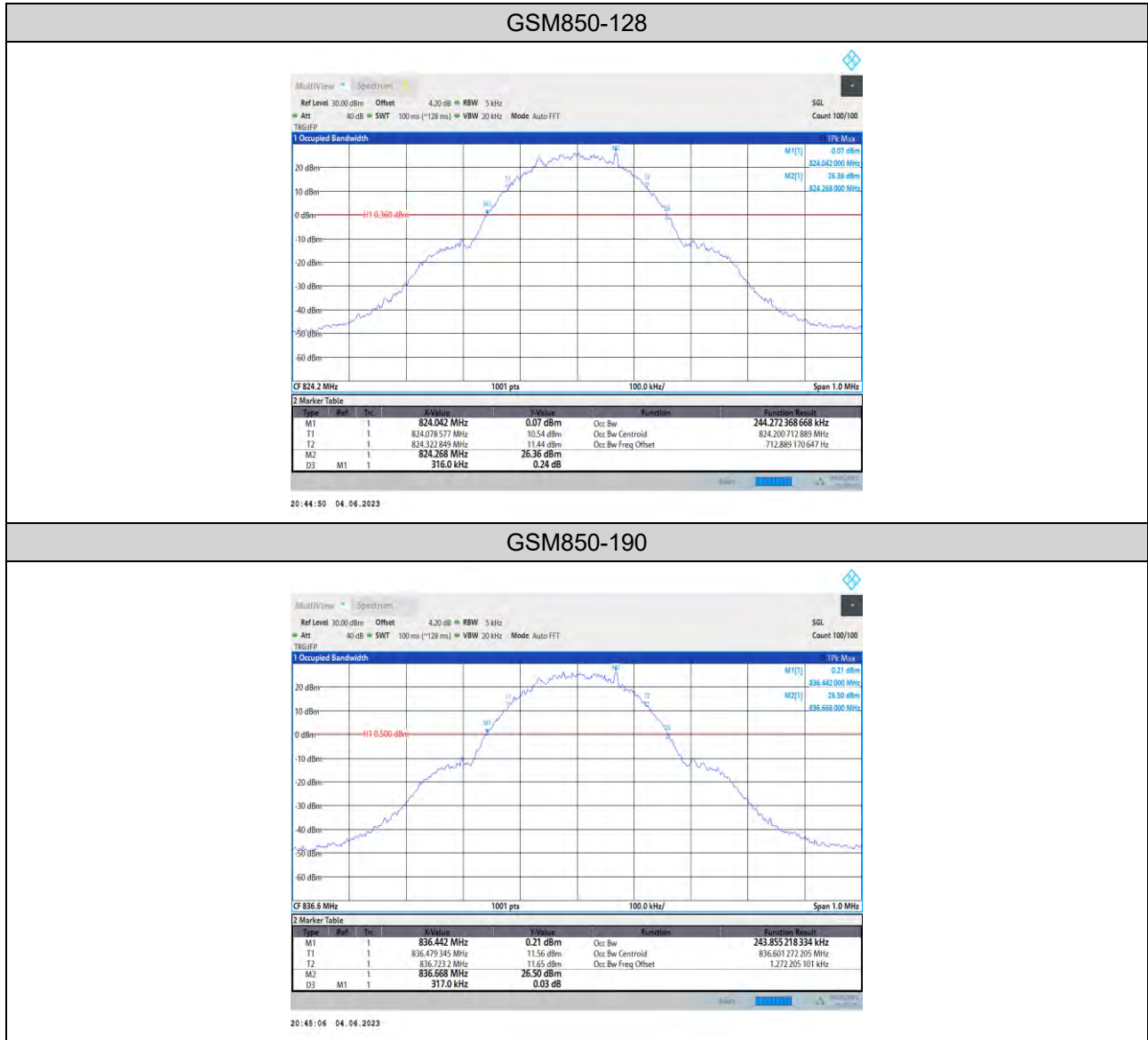
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Test Graphs



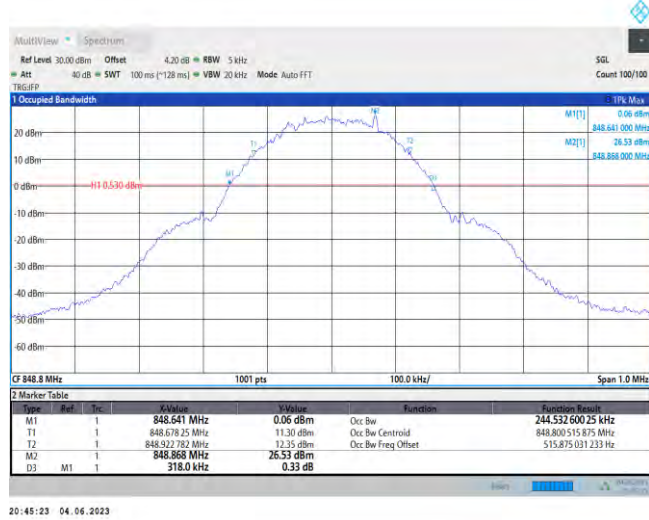
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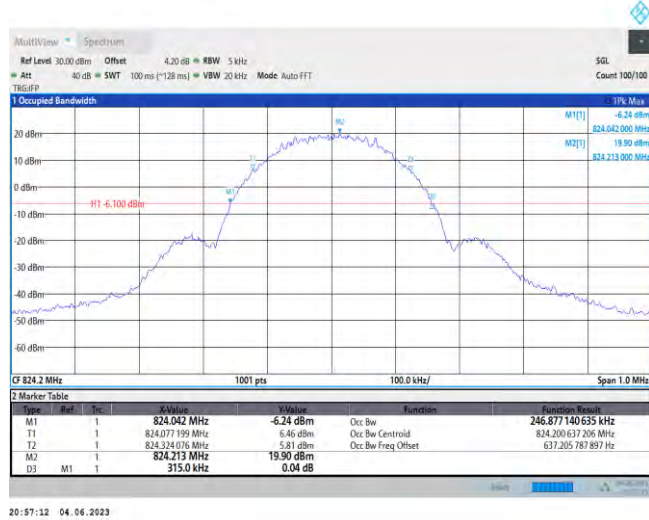
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GSM850-251



EGPRS850-128



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EGPRS850-190



EGPRS850-251



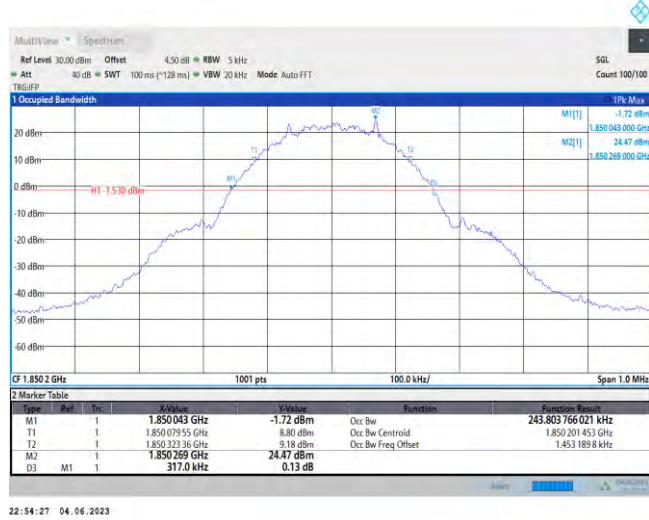
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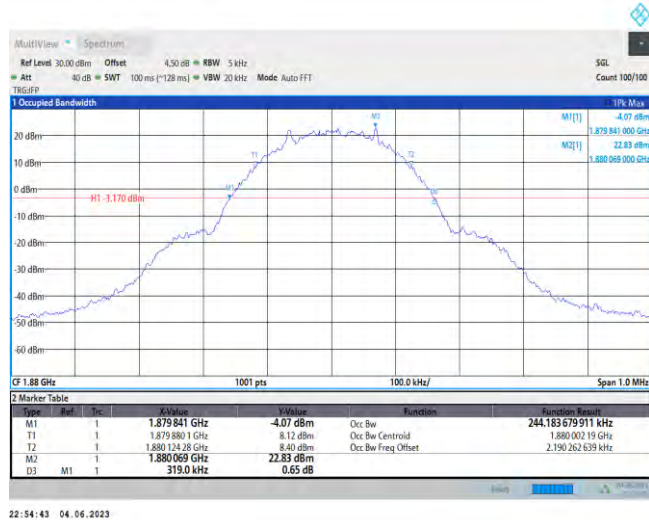
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GSM1900-512



GSM1900-661

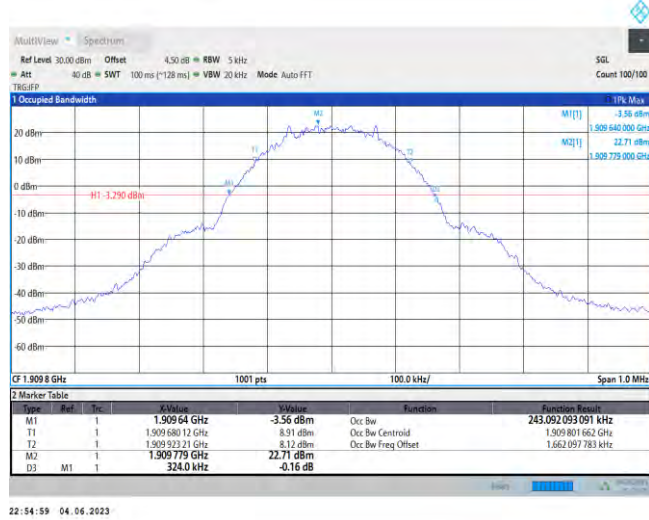


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GSM1900-810



EGPRS1900-512

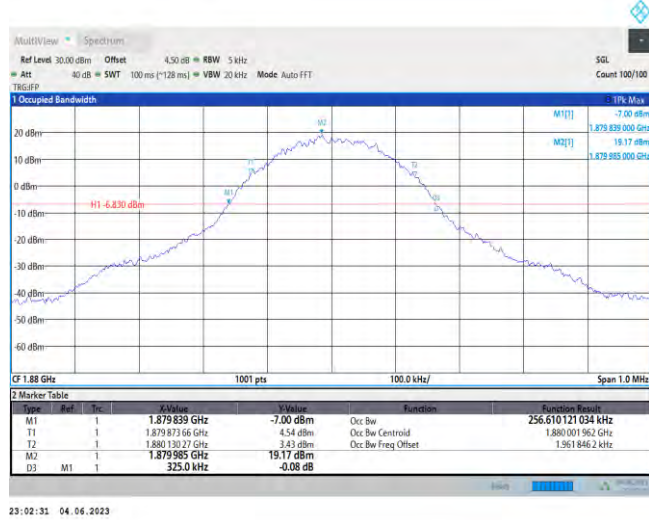


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EGPRS1900-810



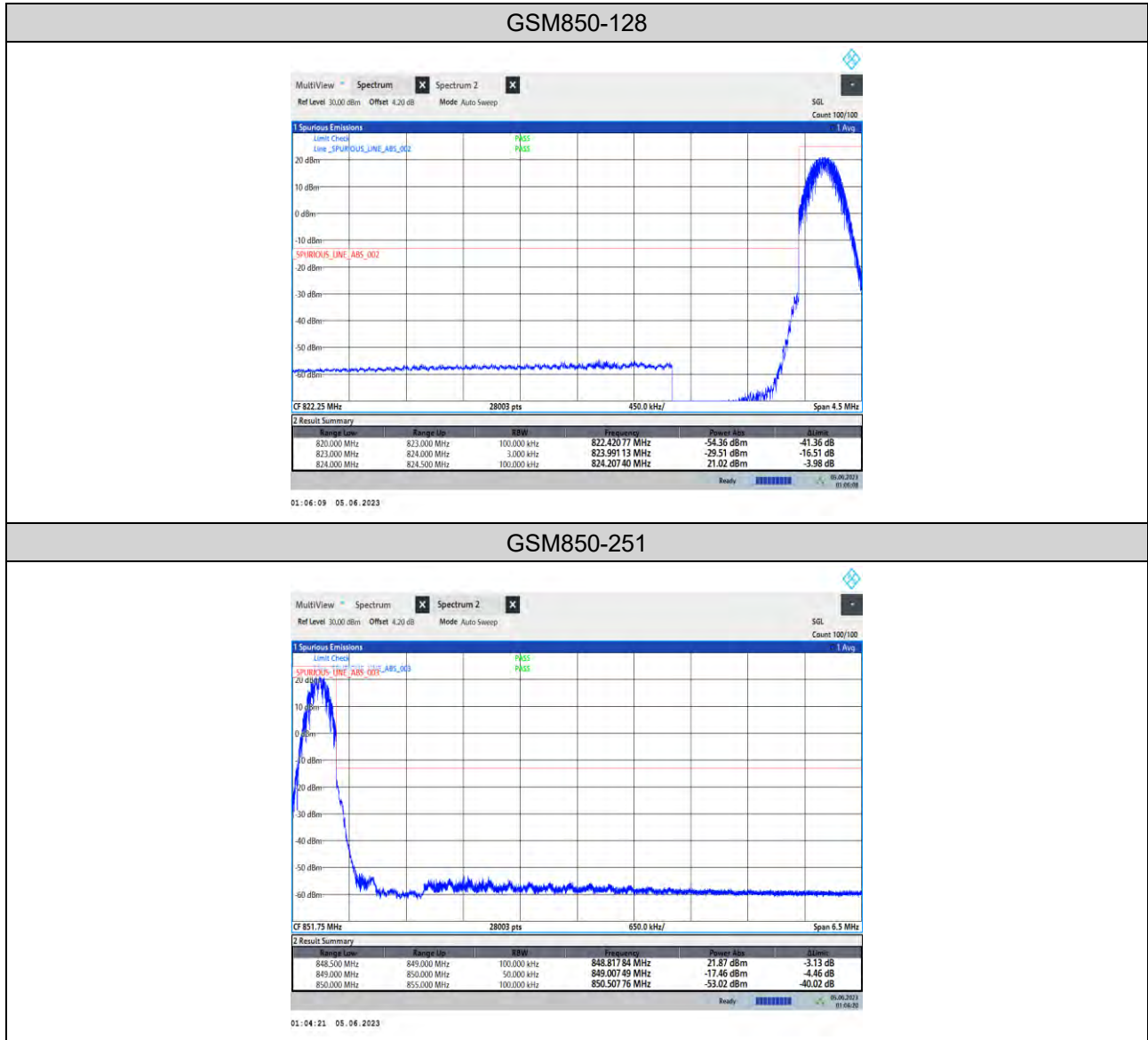
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Band Edge

Test Graphs

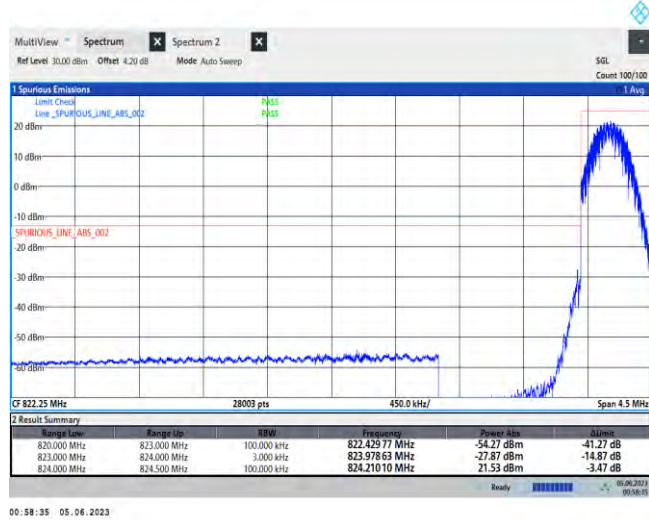


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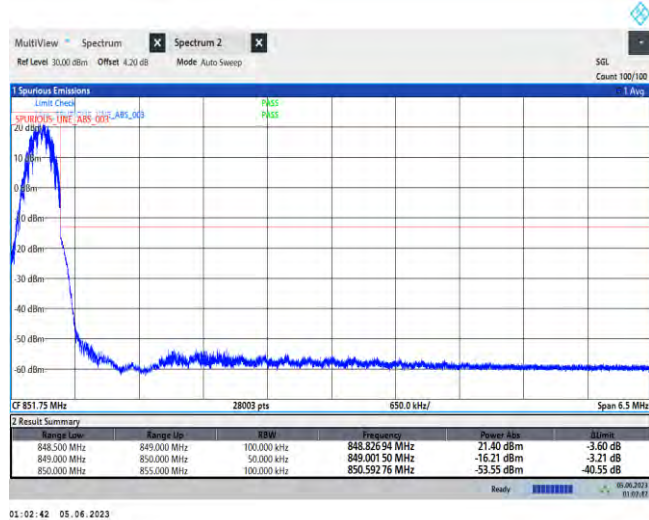
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EGPRS850-128



EGPRS850-251

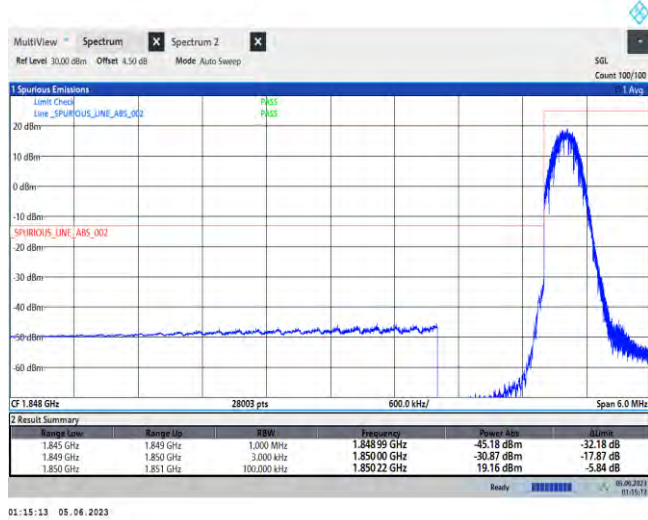


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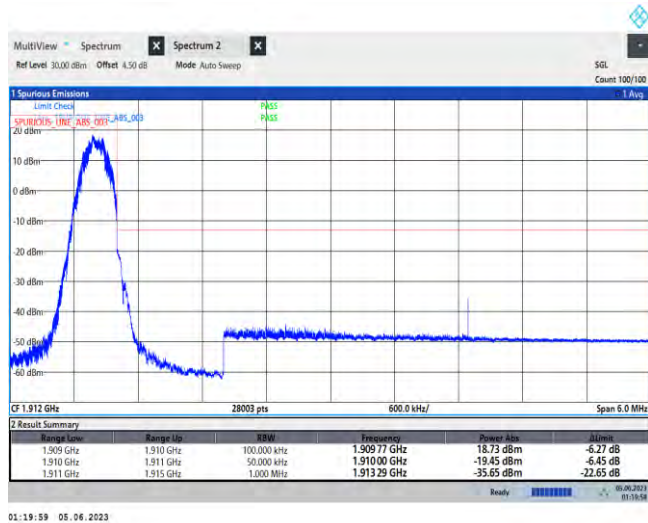
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GSM1900-512



GSM1900-810



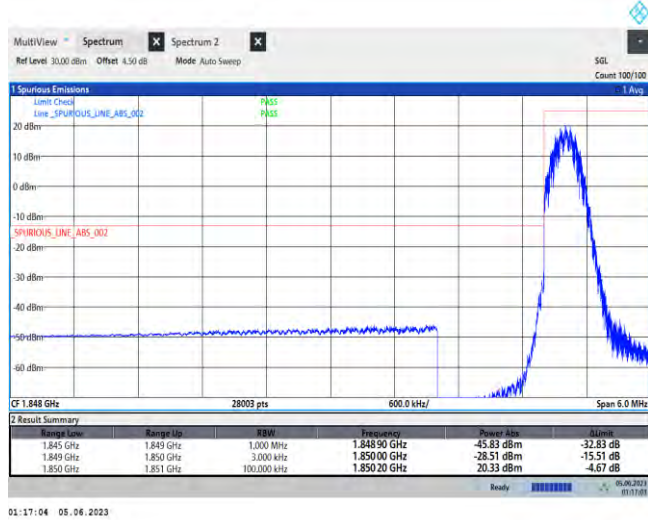
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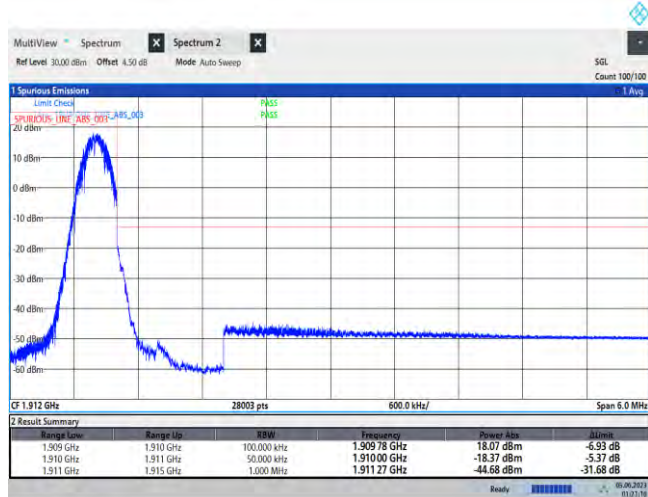


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01:17:04 05.06.2023

EGPRS1900-810



01:21:16 05.06.2023



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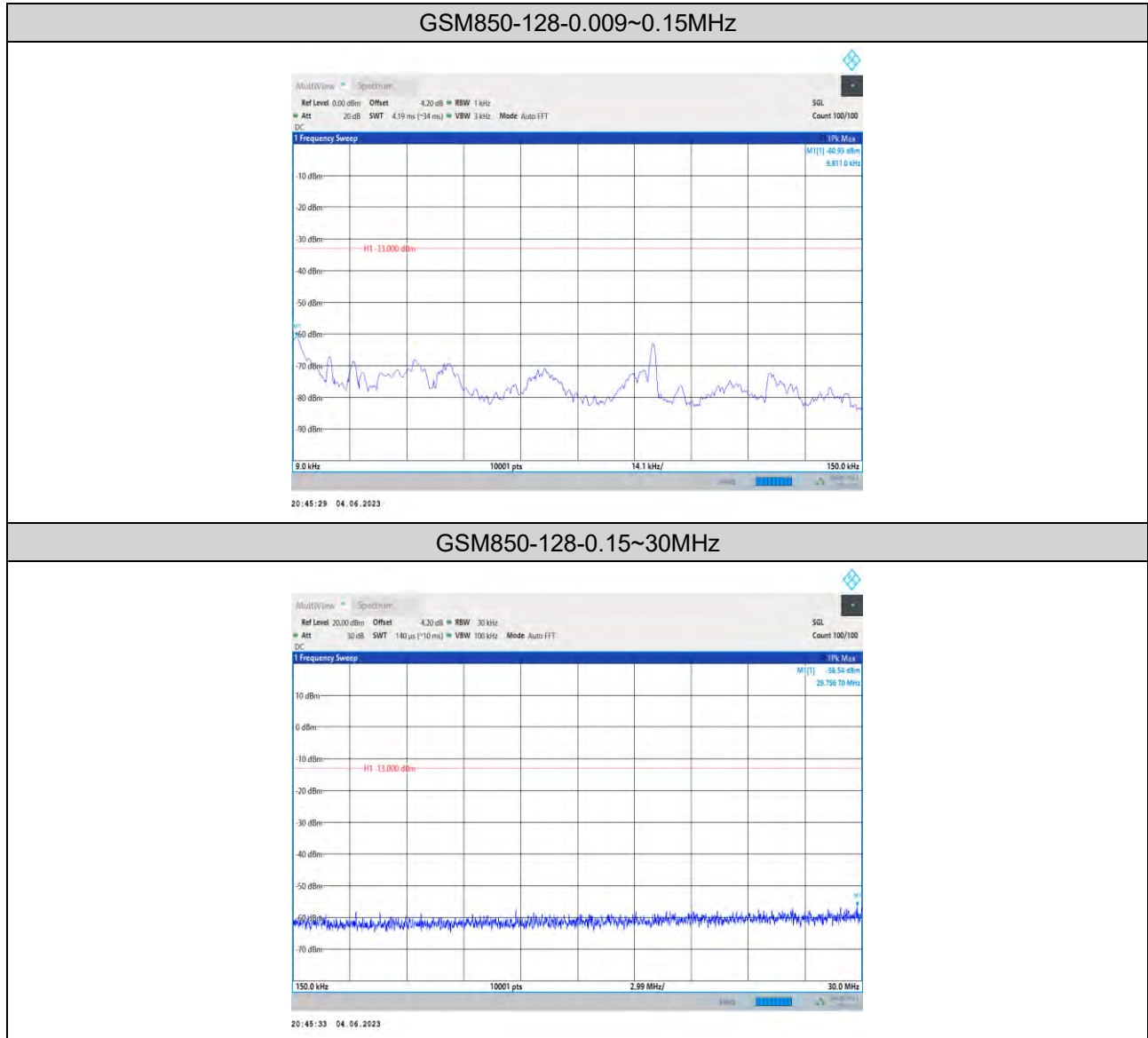
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## Conducted Spurious Emission

### Test Graphs



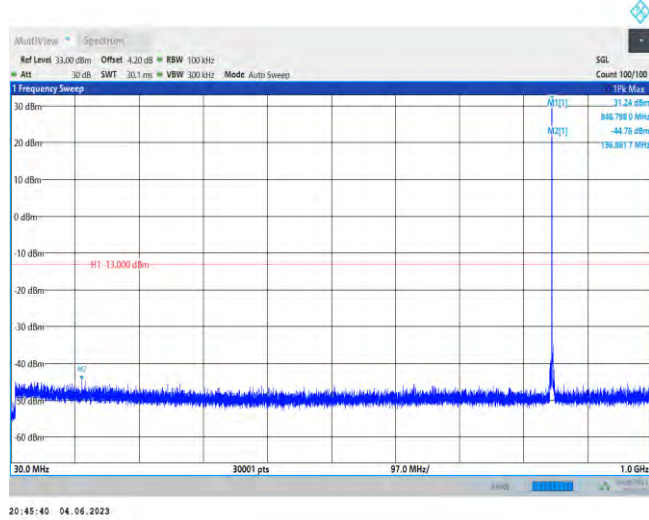
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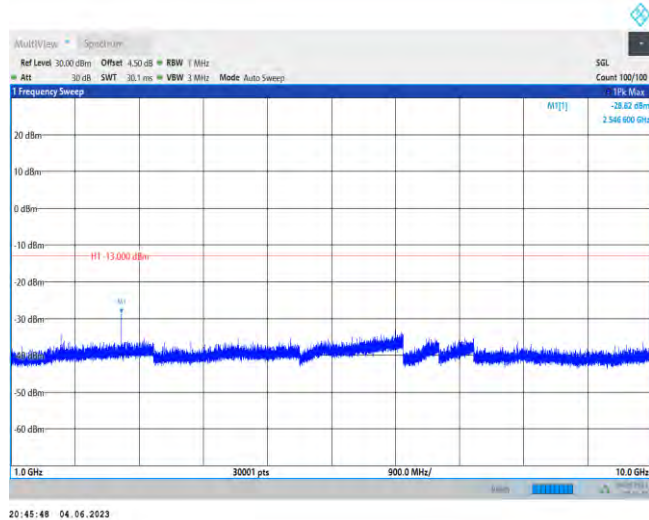
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GSM850-128-30~1000MHz



GSM850-128-1000~10000MHz

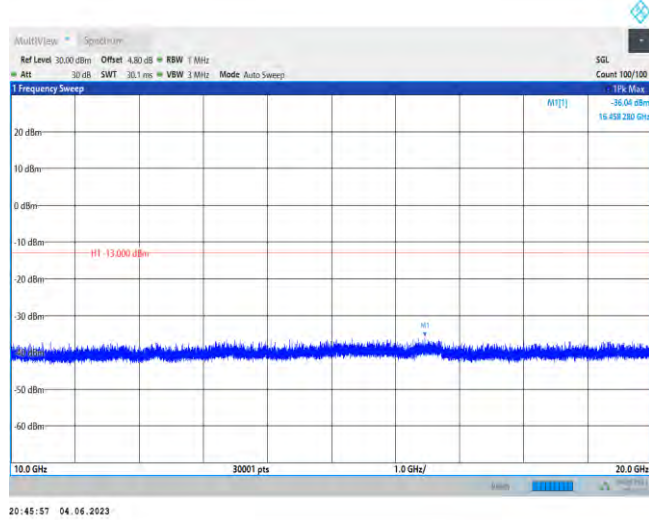


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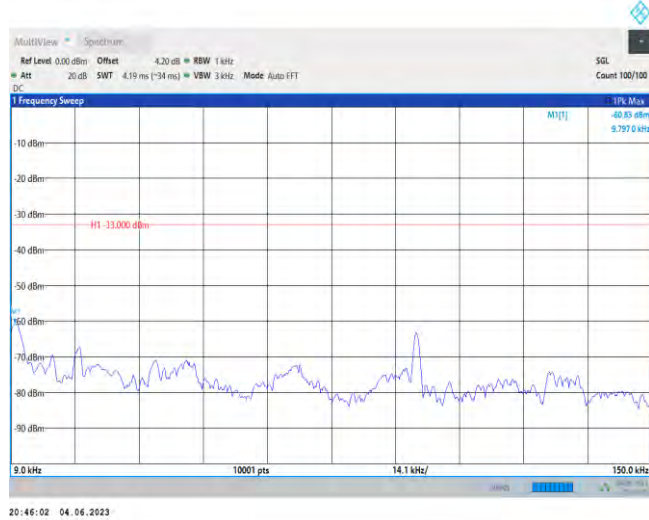
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GSM850-128-10000~20000MHz



GSM850-190-0.009~0.15MHz

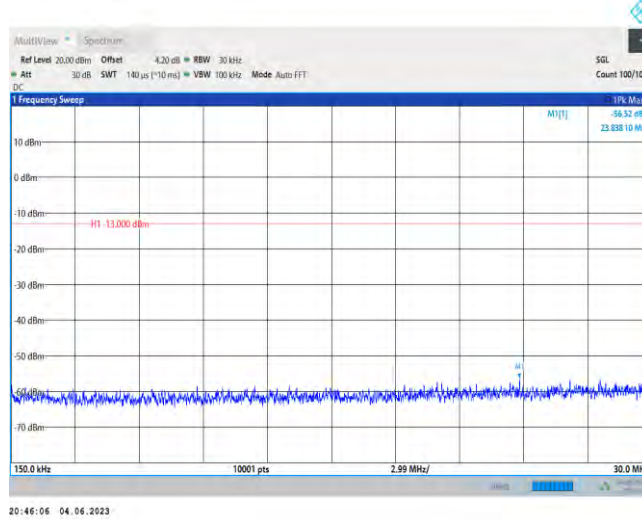


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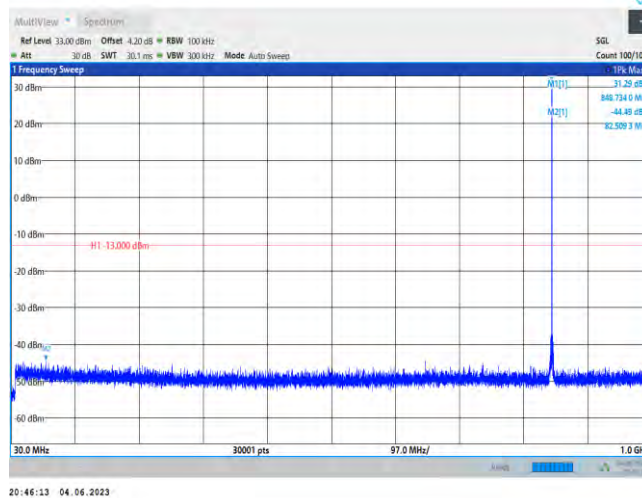
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GSM850-190-0.15~30MHz



GSM850-190-30~1000MHz



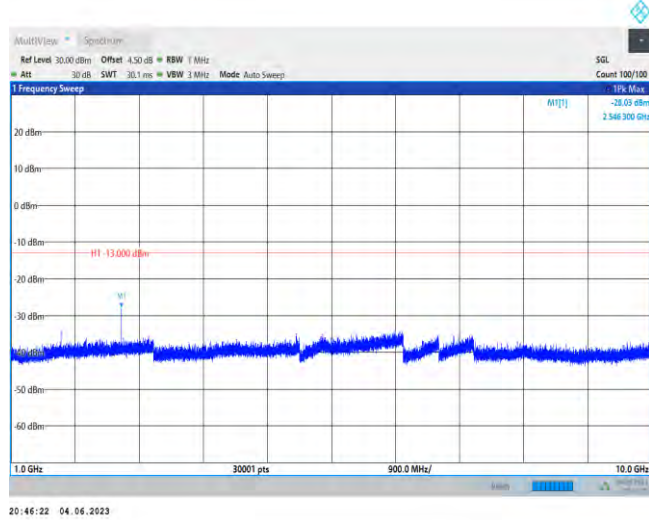
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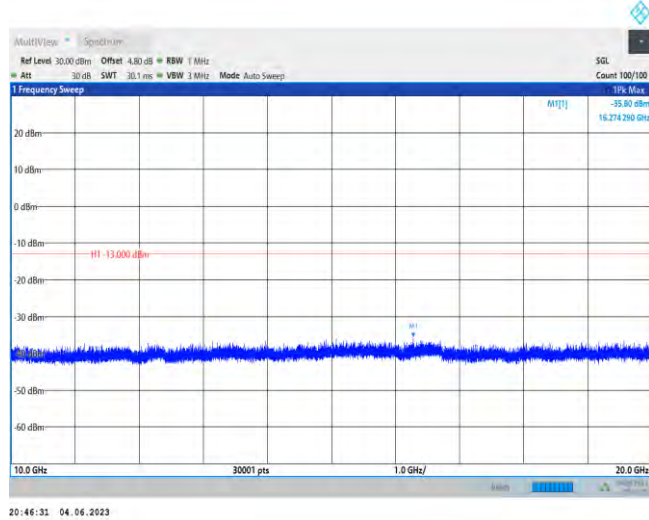
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GSM850-190-1000~10000MHz



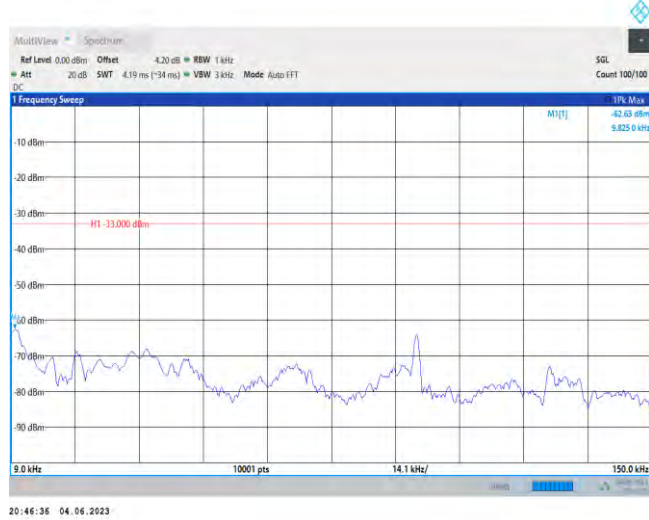
GSM850-190-10000~20000MHz



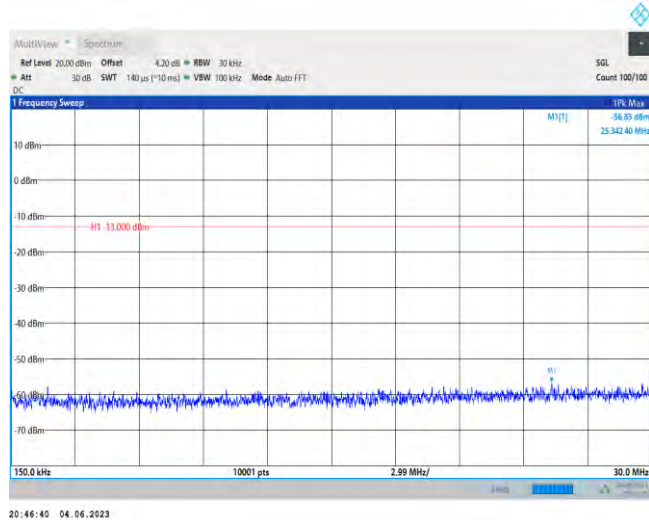
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GSM850-251-0.009~0.15MHz



GSM850-251-0.15~30MHz



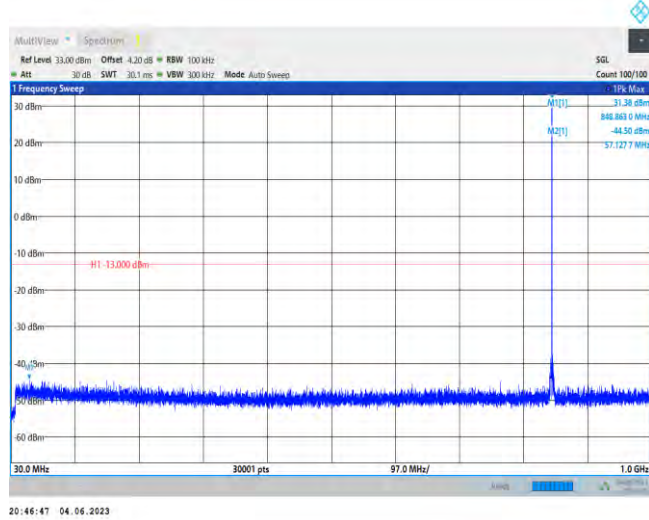
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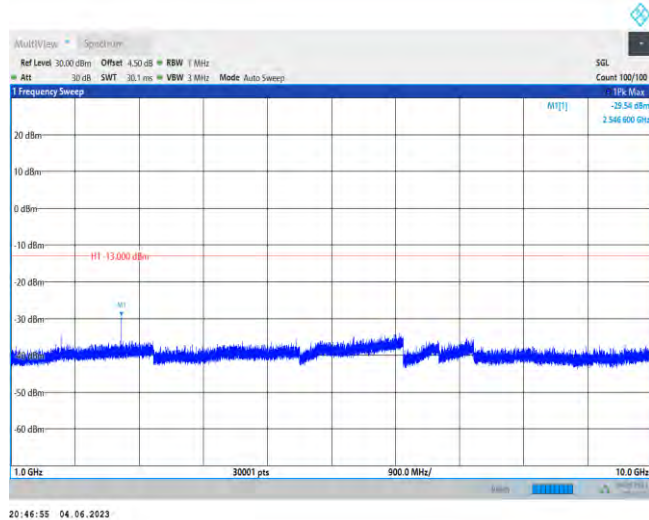
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GSM850-251-30~1000MHz



GSM850-251-1000~10000MHz

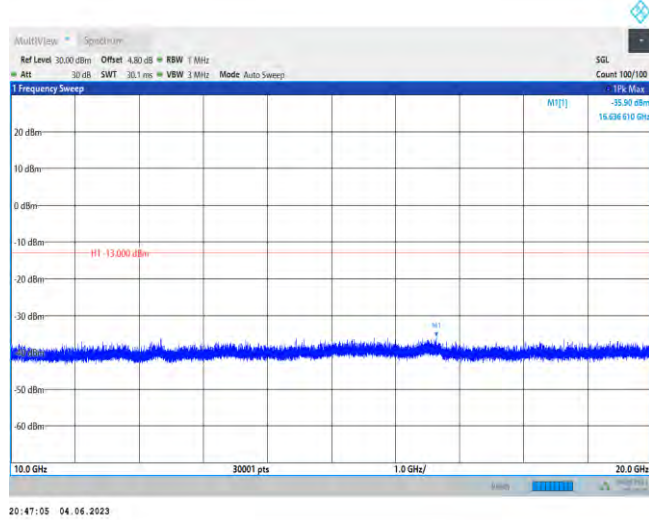


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GSM850-251-10000~20000MHz



EGPRS850-128-0.009~0.15MHz

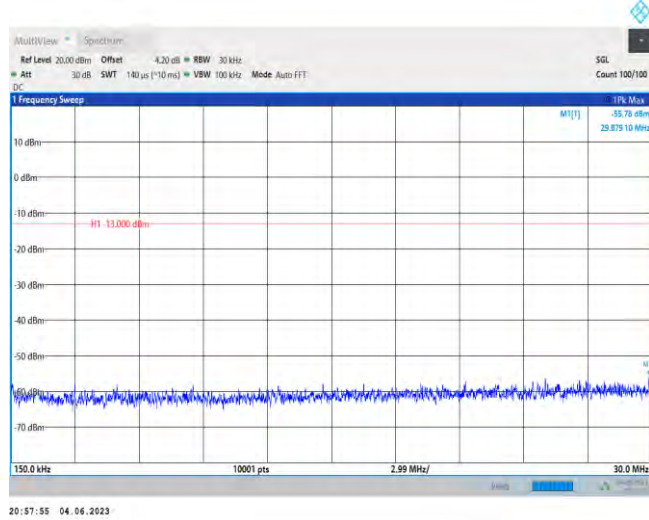


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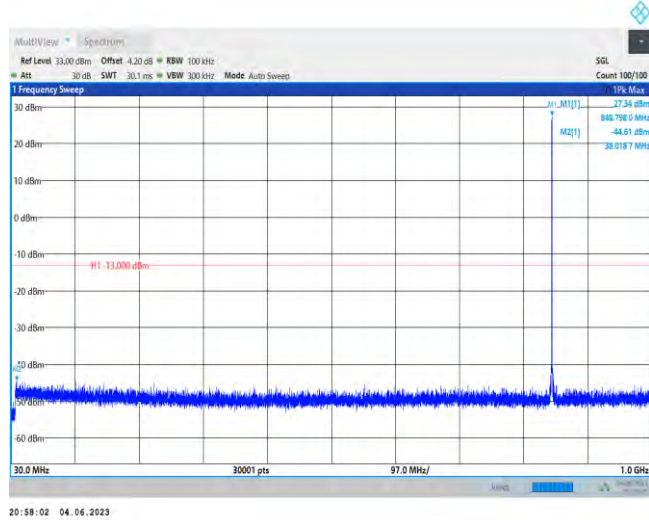
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EGPRS850-128-0.15~30MHz



EGPRS850-128-30~1000MHz

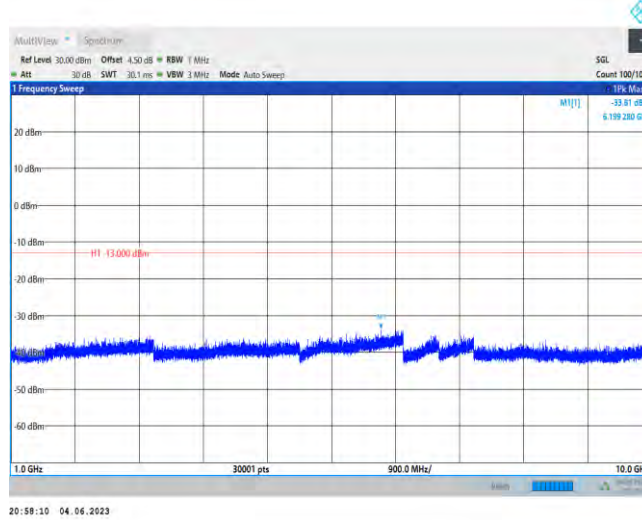


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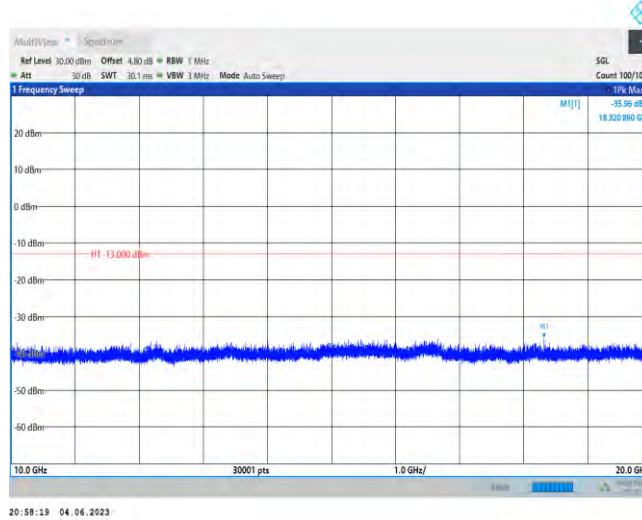
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EGPRS850-128-10000~20000MHz

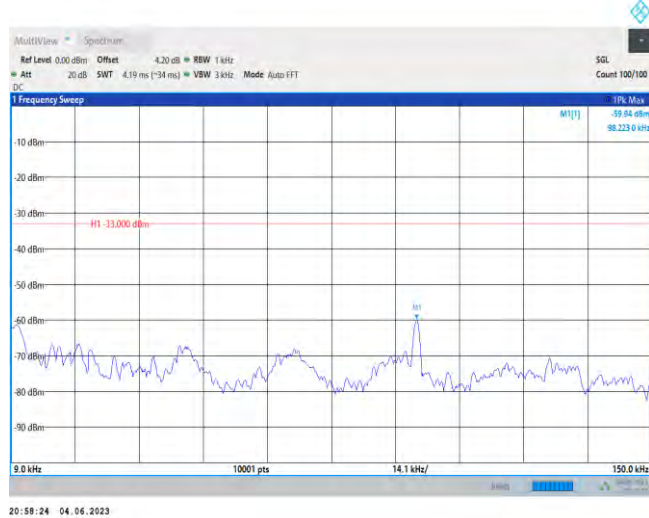


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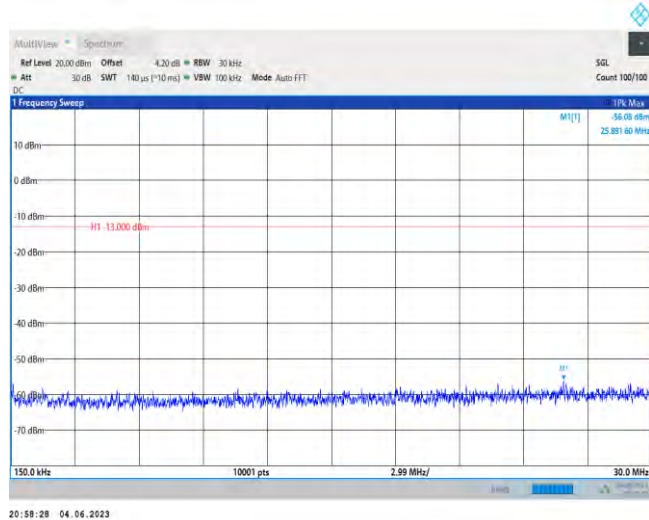
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EGPRS850-190-0.009~0.15MHz



EGPRS850-190-0.15~30MHz



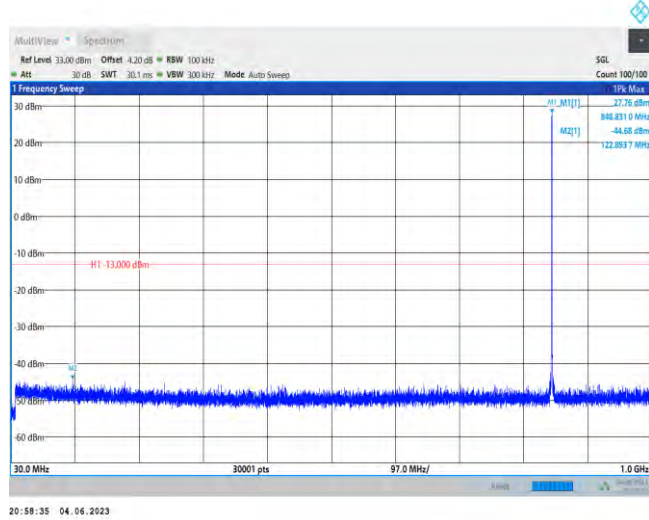
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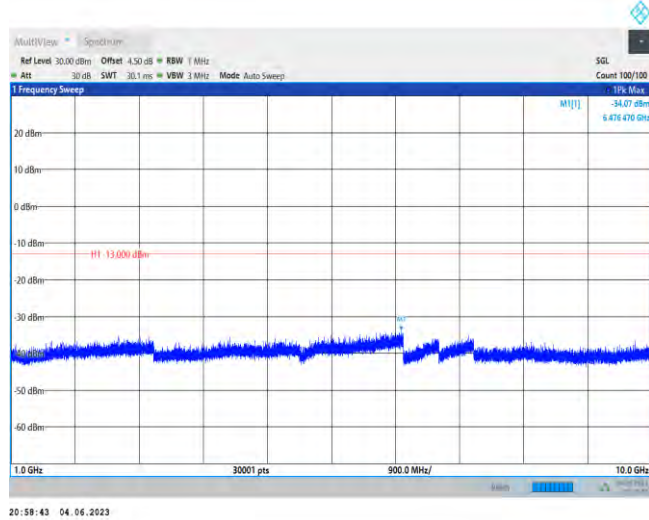
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EGPRS850-190-30~1000MHz



EGPRS850-190-1000~10000MHz



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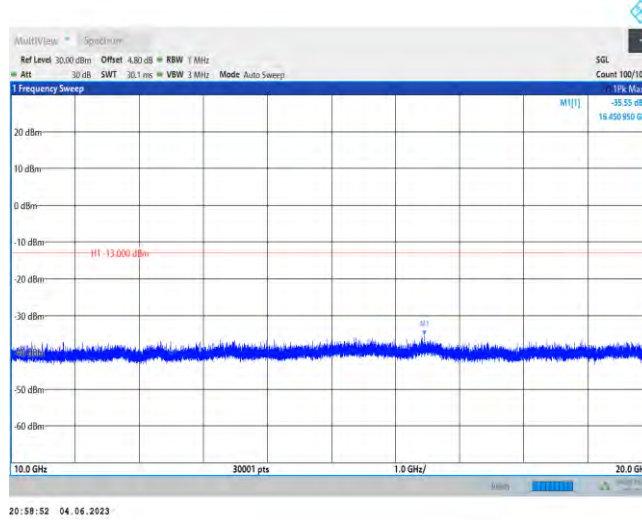
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EGPRS850-190-10000~20000MHz



EGPRS850-251-0.009~0.15MHz



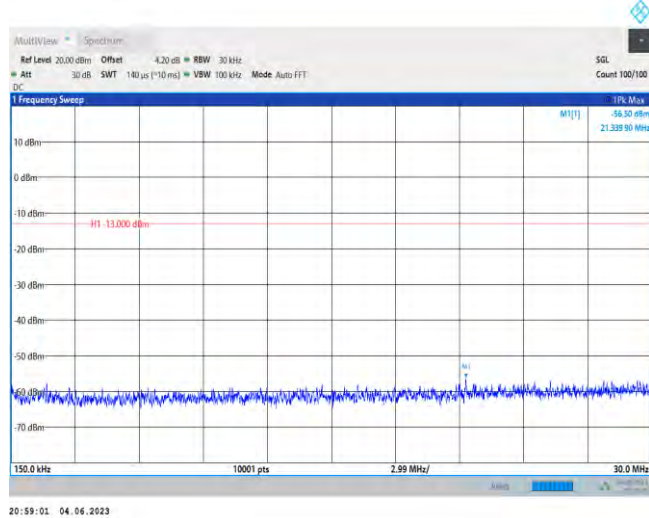
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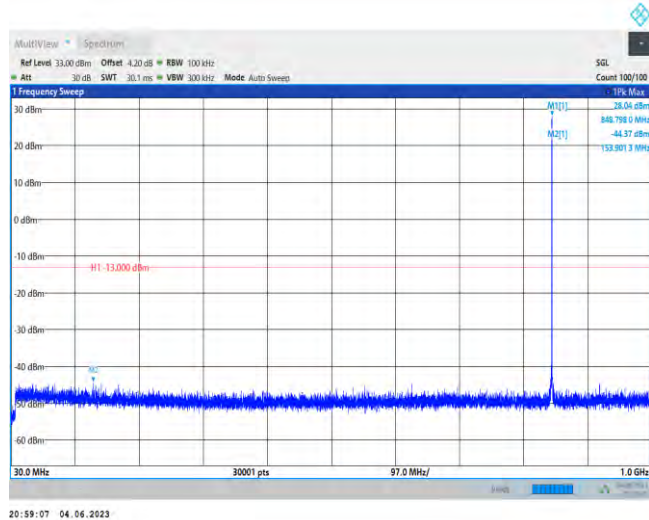
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EGPRS850-251-30~1000MHz

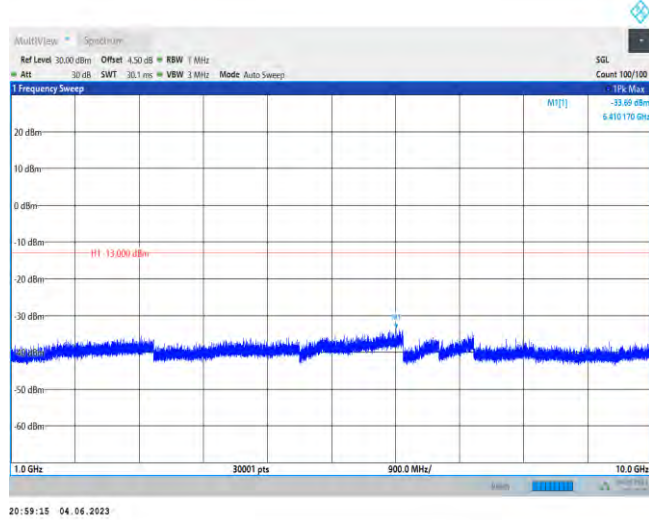


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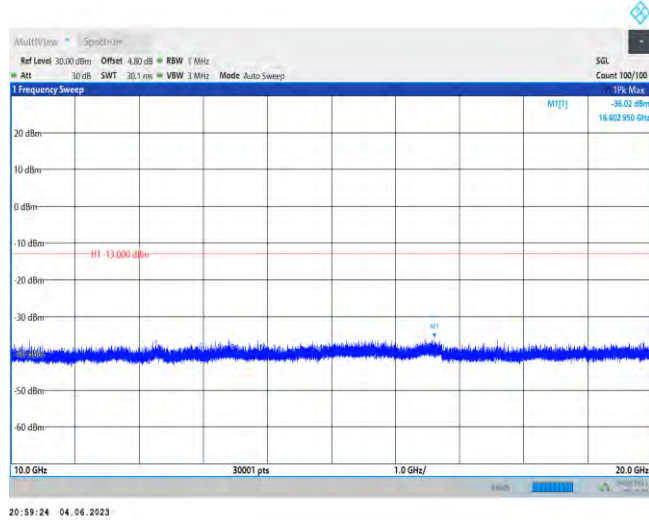
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EGPRS850-251-1000~10000MHz



EGPRS850-251-10000~20000MHz



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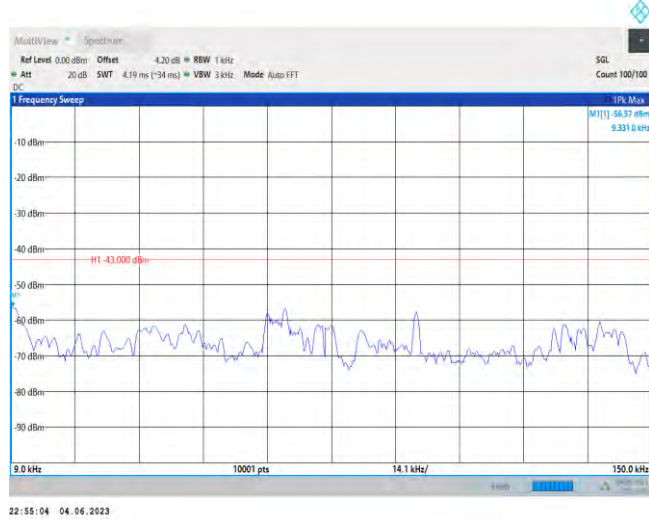
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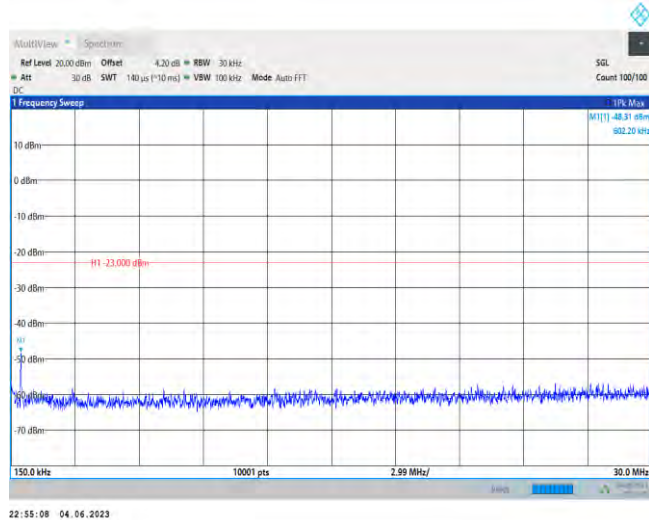
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GSM1900-512-0.009~0.15MHz



GSM1900-512-0.15~30MHz

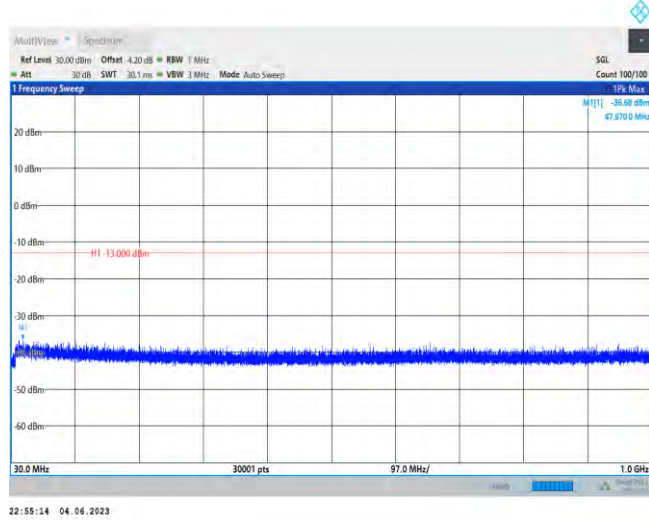


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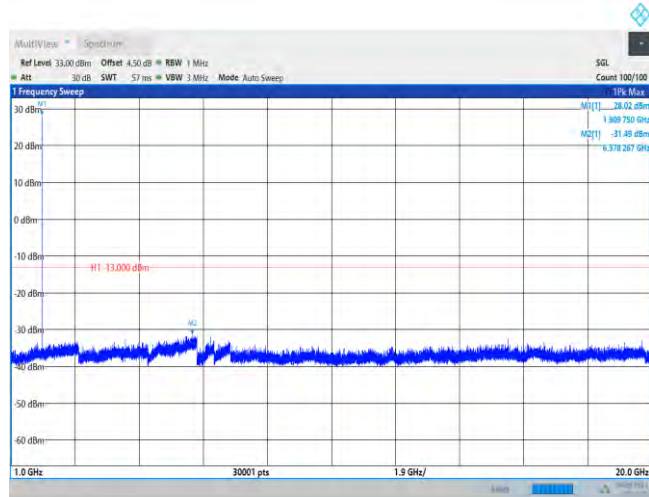
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GSM1900-512-30~1000MHz



22:55:14 04.06.2023

GSM1900-512-1000~20000MHz



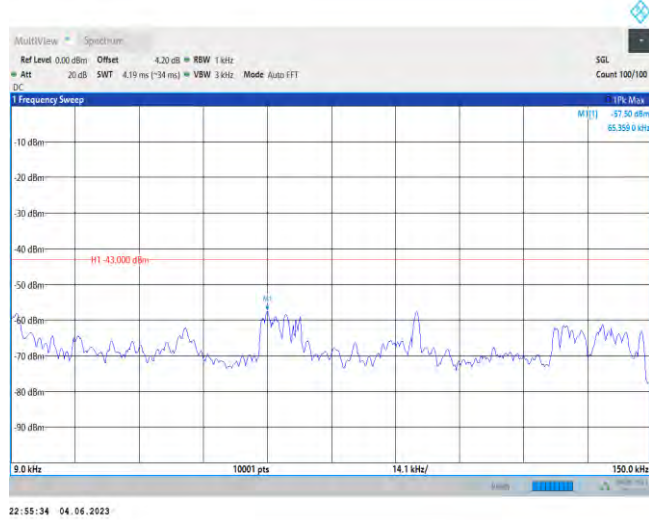
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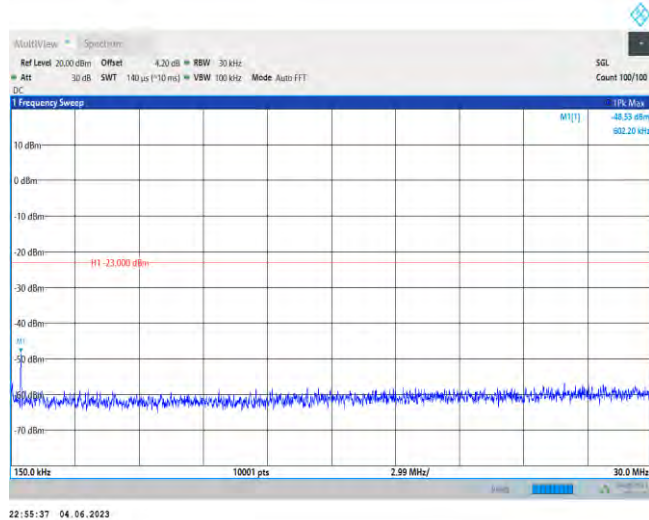
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GSM1900-661-0.009~0.15MHz



GSM1900-661-0.15~30MHz



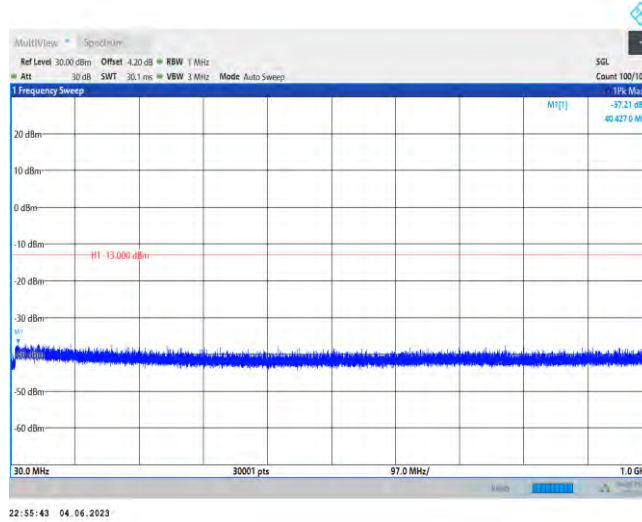
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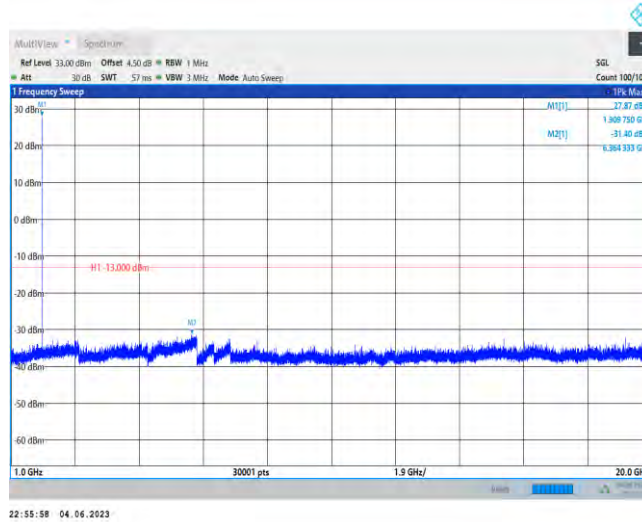
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GSM1900-661-30~1000MHz



GSM1900-661-1000~20000MHz

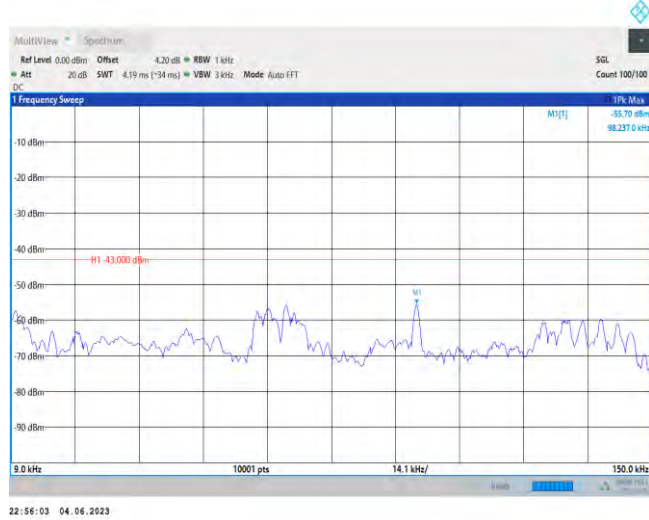


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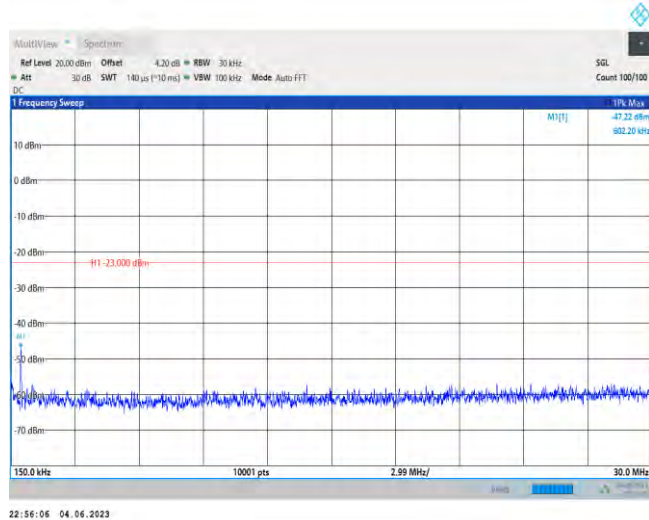
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GSM1900-810-0.009~0.15MHz



GSM1900-810-0.15~30MHz

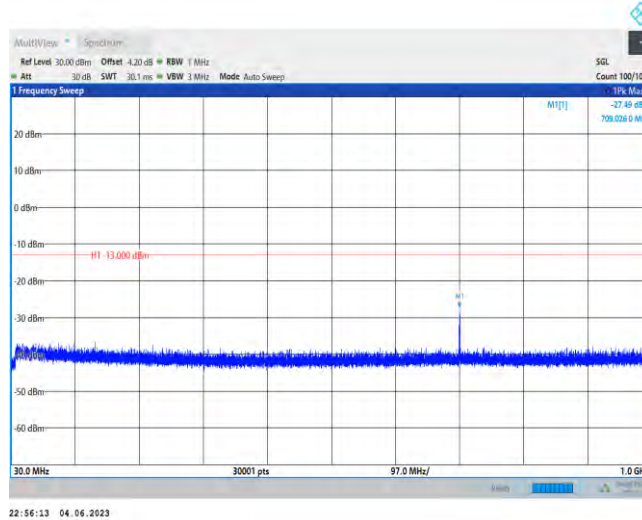


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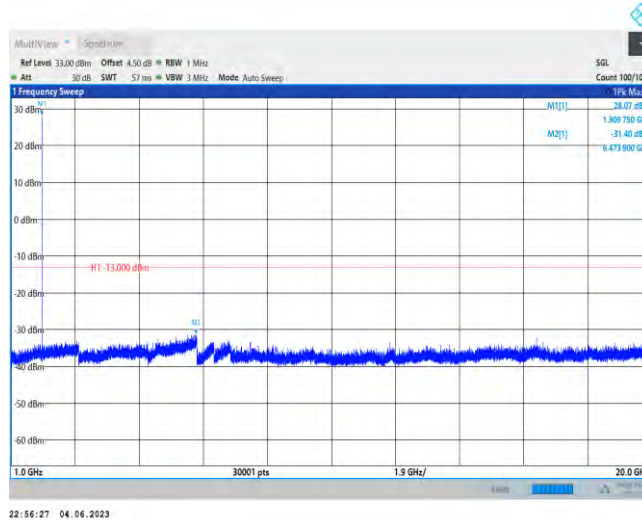
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GSM1900-810-30~1000MHz



GSM1900-810-1000~20000MHz

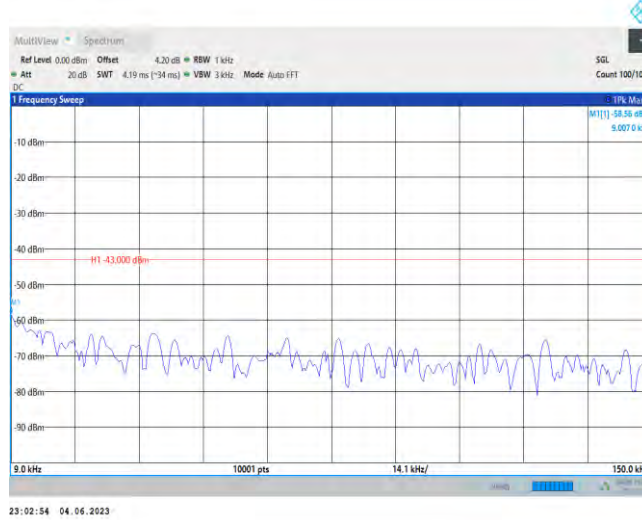


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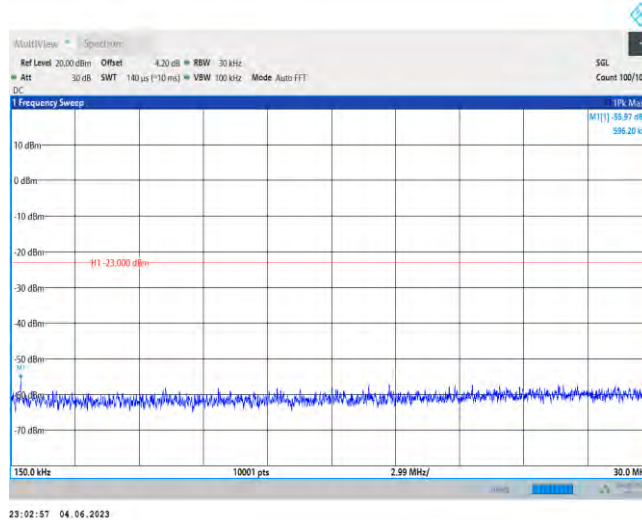
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EGPRS1900-512-0.009~0.15MHz



EGPRS1900-512-0.15~30MHz

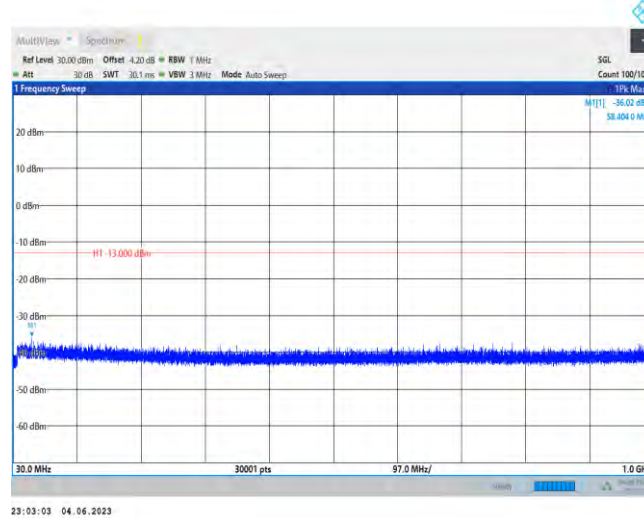


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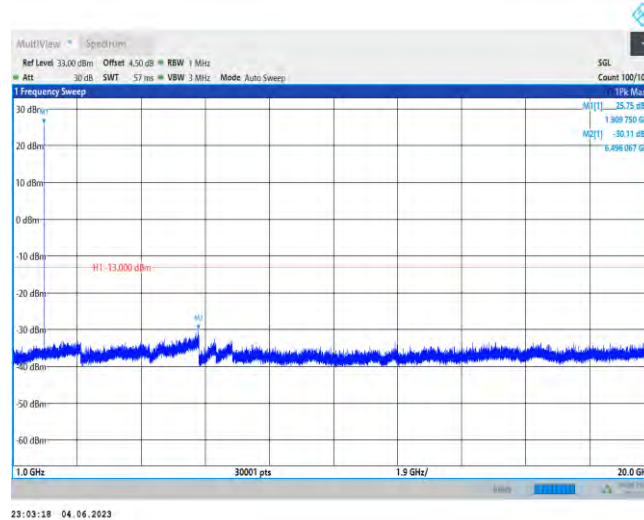
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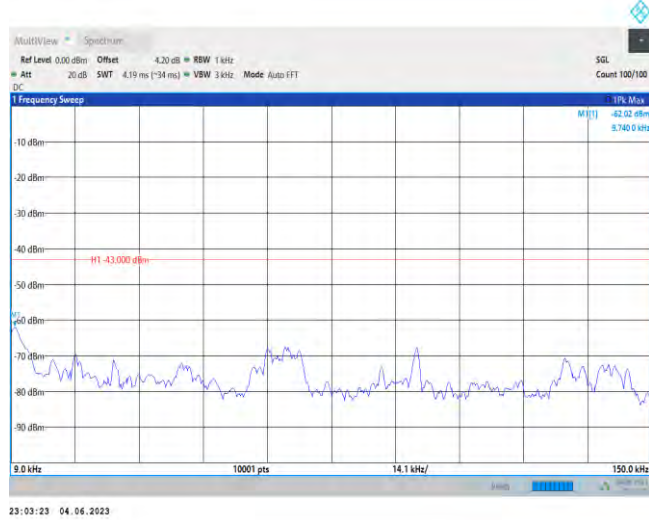


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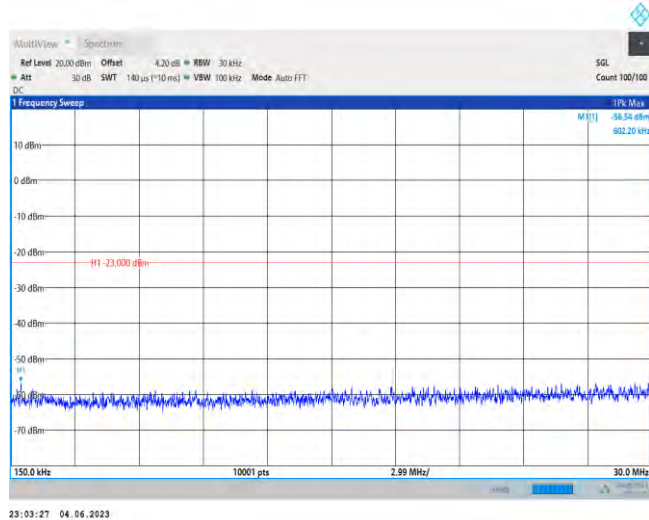
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EGPRS1900-661-0.009~0.15MHz



EGPRS1900-661-0.15~30MHz



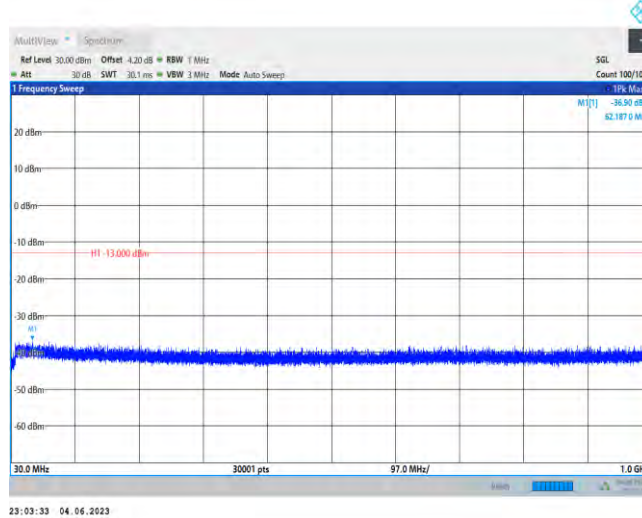
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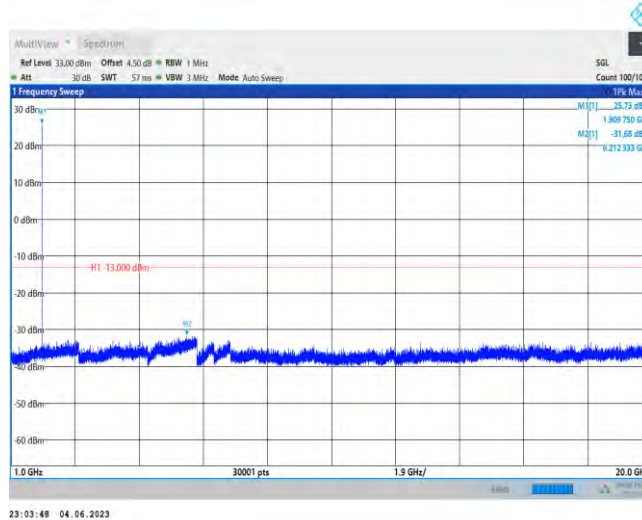
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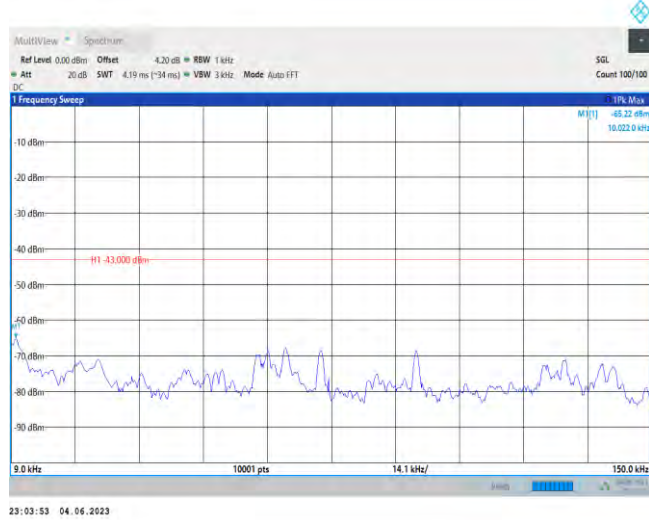
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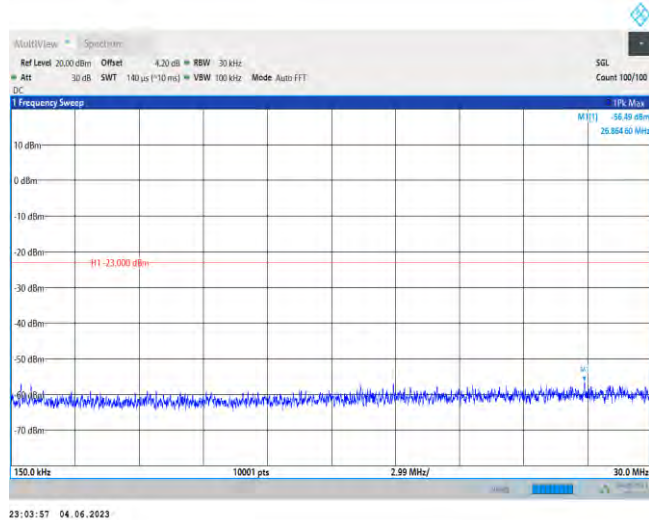
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EGPRS1900-810-0.009~0.15MHz



EGPRS1900-810-0.15~30MHz

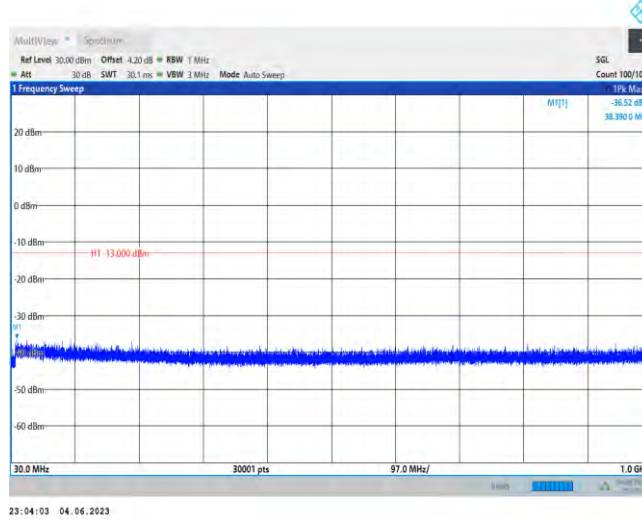


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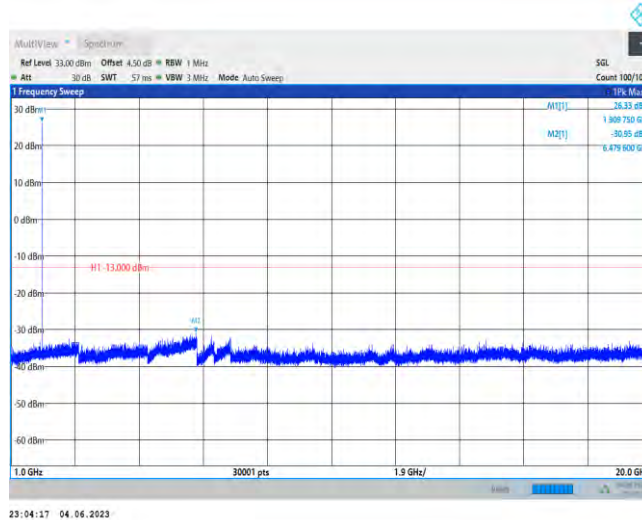
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EGPRS1900-810-30~1000MHz



EGPRS1900-810-1000~20000MHz



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### Field Strength of Spurious Radiation

Test Band = GSM850\_TM1

Test Channel = LOW ANT11

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	44.69	-48.22	25.37	-73.42	-13.00	60.42	145	133	Horizontal
2	2472.6000	42.76	-47.32	27.68	-72.14	-13.00	59.14	187	106	Horizontal
3	3296.8000	42.40	-46.67	29.56	-69.97	-13.00	56.97	159	352	Horizontal
4	4121.0000	40.95	-45.91	30.98	-69.24	-13.00	56.24	226	360	Horizontal
5	4945.2000	41.04	-45.69	32.73	-67.18	-13.00	54.18	168	360	Horizontal
6	5769.4000	39.53	-44.63	33.64	-66.72	-13.00	53.72	236	146	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	44.02	-48.22	25.37	-74.09	-13.00	61.09	237	357	Vertical
2	2472.6000	42.50	-47.32	27.68	-72.40	-13.00	59.40	158	9	Vertical
3	3296.8000	42.52	-46.67	29.56	-69.85	-13.00	56.85	269	84	Vertical
4	4121.0000	40.82	-45.91	30.98	-69.37	-13.00	56.37	132	308	Vertical
5	4945.2000	41.98	-45.69	32.73	-66.24	-13.00	53.24	154	96	Vertical
6	5769.4000	39.55	-44.63	33.64	-66.70	-13.00	53.70	195	216	Vertical



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Test Band = GSM850\_TM1  
Test Channel = MID ANT11

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	43.92	-48.19	25.38	-74.15	-13.00	61.15	295	359	Horizontal
2	2509.2000	43.31	-47.24	27.80	-71.38	-13.00	58.38	154	78	Horizontal
3	3345.6000	42.78	-46.62	29.50	-69.60	-13.00	56.60	162	359	Horizontal
4	4182.0000	40.16	-45.95	31.07	-69.98	-13.00	56.98	136	237	Horizontal
5	5018.4000	40.97	-45.73	32.89	-67.13	-13.00	54.13	158	302	Horizontal
6	5854.8000	40.11	-44.83	33.85	-66.13	-13.00	53.13	147	316	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	43.77	-48.19	25.38	-74.30	-13.00	61.30	158	334	Vertical
2	2509.2000	42.90	-47.24	27.80	-71.79	-13.00	58.79	247	176	Vertical
3	3345.6000	42.81	-46.62	29.50	-69.57	-13.00	56.57	159	69	Vertical
4	4182.0000	40.14	-45.95	31.07	-70.00	-13.00	57.00	223	348	Vertical
5	5018.4000	41.41	-45.73	32.89	-66.69	-13.00	53.69	158	122	Vertical
6	5854.8000	39.75	-44.83	33.85	-66.49	-13.00	53.49	269	136	Vertical



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Test Band = GSM850\_TM1  
 Test Channel = HIGH ANT11

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	45.56	-48.16	25.39	-72.47	-13.00	59.47	150	102	Horizontal
2	2546.4000	42.70	-47.11	27.92	-71.75	-13.00	58.75	150	360	Horizontal
3	3395.2000	42.59	-46.55	29.44	-69.78	-13.00	56.78	150	355	Horizontal
4	4244.0000	41.14	-45.88	31.19	-68.81	-13.00	55.81	150	360	Horizontal
5	5092.8000	39.59	-45.41	32.93	-68.15	-13.00	55.15	150	275	Horizontal
6	5941.6000	40.41	-44.74	34.02	-65.58	-13.00	52.58	150	102	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	43.56	-48.16	25.39	-74.47	-13.00	61.47	150	357	Vertical
2	2546.4000	42.38	-47.11	27.92	-72.07	-13.00	59.07	150	0	Vertical
3	3395.2000	42.18	-46.55	29.44	-70.19	-13.00	57.19	150	0	Vertical
4	4244.0000	41.37	-45.88	31.19	-68.58	-13.00	55.58	150	347	Vertical
5	5092.8000	39.61	-45.41	32.93	-68.13	-13.00	55.13	150	68	Vertical
6	5941.6000	40.16	-44.74	34.02	-65.83	-13.00	52.83	150	230	Vertical



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Test Band = GSM1900\_TM1  
 Test Channel = LOW ANT15

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4000	40.13	-45.50	29.97	-70.66	-13.00	57.66	187	256	Horizontal
2	5550.6000	39.69	-45.15	32.97	-67.76	-13.00	54.76	221	316	Horizontal
3	7400.8000	37.30	-43.41	36.49	-64.88	-13.00	51.88	159	316	Horizontal
4	9251.0000	30.71	-40.23	38.38	-66.41	-13.00	53.41	162	14	Horizontal
5	11101.2000	25.43	-37.96	39.09	-68.70	-13.00	55.70	147	353	Horizontal
6	12951.4000	25.56	-37.22	39.78	-67.14	-13.00	54.14	226	60	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4000	40.56	-45.50	29.97	-70.23	-13.00	57.23	214	0	Vertical
2	5550.6000	39.36	-45.15	32.97	-68.09	-13.00	55.09	158	316	Vertical
3	7400.8000	37.52	-43.41	36.49	-64.66	-13.00	51.66	195	195	Vertical
4	9251.0000	30.23	-40.23	38.38	-66.89	-13.00	53.89	162	255	Vertical
5	11101.2000	25.49	-37.96	39.09	-68.64	-13.00	55.64	261	104	Vertical
6	12951.4000	25.51	-37.22	39.78	-67.19	-13.00	54.19	225	1	Vertical



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Test Band = GSM1900\_TM1

Test Channel = MID ANT15

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	42.03	-45.75	30.19	-68.80	-13.00	55.80	287	74	Horizontal
2	5640.0000	38.65	-44.98	33.17	-68.43	-13.00	55.43	159	3	Horizontal
3	7520.0000	37.49	-43.10	36.43	-64.44	-13.00	51.44	259	29	Horizontal
4	9400.0000	32.88	-39.83	38.49	-63.72	-13.00	50.72	162	118	Horizontal
5	11280.0000	27.44	-37.41	39.11	-66.12	-13.00	53.12	132	134	Horizontal
6	13160.0000	24.24	-37.12	39.90	-68.24	-13.00	55.24	148	29	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	40.56	-45.75	30.19	-70.27	-13.00	57.27	182	285	Vertical
2	5640.0000	39.43	-44.98	33.17	-67.65	-13.00	54.65	154	104	Vertical
3	7520.0000	37.49	-43.10	36.43	-64.44	-13.00	51.44	159	118	Vertical
4	9400.0000	32.23	-39.83	38.49	-64.37	-13.00	51.37	226	135	Vertical
5	11280.0000	27.78	-37.41	39.11	-65.78	-13.00	52.78	125	7	Vertical
6	13160.0000	24.32	-37.12	39.90	-68.16	-13.00	55.16	259	357	Vertical



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Test Band = GSM1900\_TM1  
 Test Channel = HIGH ANT15

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	40.32	-45.99	30.38	-70.55	-13.00	57.55	155	75	Horizontal
2	5729.5000	39.27	-44.82	33.49	-67.32	-13.00	54.32	215	360	Horizontal
3	7639.2000	37.26	-43.01	36.47	-64.54	-13.00	51.54	132	288	Horizontal
4	9549.0000	32.74	-39.96	38.45	-64.02	-13.00	51.02	159	108	Horizontal
5	11458.8000	26.17	-37.33	39.04	-67.38	-13.00	54.38	147	182	Horizontal
6	13368.6000	25.40	-36.49	40.11	-66.23	-13.00	53.23	165	61	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	40.67	-45.99	30.38	-70.20	-13.00	57.20	188	356	Vertical
2	5729.5000	39.56	-44.82	33.49	-67.03	-13.00	54.03	147	356	Vertical
3	7639.2000	37.12	-43.01	36.47	-64.68	-13.00	51.68	159	356	Vertical
4	9549.0000	32.57	-39.96	38.45	-64.19	-13.00	51.19	162	330	Vertical
5	11458.8000	26.32	-37.33	39.04	-67.23	-13.00	54.23	132	1	Vertical
6	13368.6000	24.64	-36.49	40.11	-66.99	-13.00	53.99	245	135	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	6.36	0.007602	±2.5	PASS
GSM850	190	VN	NT	7.62	0.009108	±2.5	PASS
GSM850	190	VH	NT	5.33	0.006371	±2.5	PASS
EGPRS850	190	VL	NT	18.63	0.022269	±2.5	PASS
EGPRS850	190	VN	NT	17.43	0.020834	±2.5	PASS
EGPRS850	190	VH	NT	17.85	0.021336	±2.5	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	-0.87	-0.000463	PASS
GSM1900	661	VN	NT	-2.16	-0.001149	PASS
GSM1900	661	VH	NT	-0.36	-0.000191	PASS
EGPRS1900	661	VL	NT	15.30	0.008138	PASS
EGPRS1900	661	VN	NT	17.40	0.009255	PASS
EGPRS1900	661	VH	NT	18.08	0.009617	PASS



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn  
 t (86-512) 62992980 sgs.china@sgs.com

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	0.26	0.000311	±2.5	PASS
GSM850	190	NV	-20	9.14	0.010925	±2.5	PASS
GSM850	190	NV	-10	8.23	0.009837	±2.5	PASS
GSM850	190	NV	0	7.88	0.009419	±2.5	PASS
GSM850	190	NV	10	6.20	0.007411	±2.5	PASS
GSM850	190	NV	20	9.46	0.011308	±2.5	PASS
GSM850	190	NV	30	6.59	0.007877	±2.5	PASS
GSM850	190	NV	40	5.52	0.006598	±2.5	PASS
GSM850	190	NV	50	4.58	0.005475	±2.5	PASS
EGPRS850	190	NV	-30	17.43	0.020834	±2.5	PASS
EGPRS850	190	NV	-20	17.08	0.020416	±2.5	PASS
EGPRS850	190	NV	-10	17.31	0.020691	±2.5	PASS
EGPRS850	190	NV	0	19.69	0.023536	±2.5	PASS
EGPRS850	190	NV	10	18.50	0.022113	±2.5	PASS
EGPRS850	190	NV	20	17.05	0.020380	±2.5	PASS
EGPRS850	190	NV	30	19.15	0.022890	±2.5	PASS
EGPRS850	190	NV	40	18.53	0.022149	±2.5	PASS
EGPRS850	190	NV	50	19.15	0.022890	±2.5	PASS



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn  
 t (86-512) 62992980 sgs.china@sgs.com



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Table with 7 columns: Band, Channel, Voltage [Vdc], Temperature (°C), Deviation (Hz), Deviation (ppm), Verdict. Rows include GSM1900 and EGPRS1900 tests at various temperatures and voltages, all resulting in PASS verdicts.

---End of Attachment---



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