

Report No.: SEWM2206000075RG01

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# Appendix B.1

## GSM 850&1900



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.54	29.13	38.45	PASS
GSM850	190	32.66	29.25	38.45	PASS
GSM850	251	32.70	29.29	38.45	PASS
Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	30.05	29.82	33.00	PASS
GSM1900	661	30.07	29.84	33.00	PASS
GSM1900	810	30.05	29.82	33.00	PASS



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Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.88	23.47	38.45	PASS
EGPRS850	128	2	25.77	22.36	38.45	PASS
EGPRS850	128	3	23.32	19.91	38.45	PASS
EGPRS850	128	4	22.13	18.72	38.45	PASS
EGPRS850	190	1	26.12	22.71	38.45	PASS
EGPRS850	190	2	25.11	21.7	38.45	PASS
EGPRS850	190	3	22.73	19.32	38.45	PASS
EGPRS850	190	4	21.58	18.17	38.45	PASS
EGPRS850	251	1	25.74	22.33	38.45	PASS
EGPRS850	251	2	24.79	21.38	38.45	PASS
EGPRS850	251	3	22.59	19.18	38.45	PASS
EGPRS850	251	4	21.23	17.82	38.45	PASS
Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	27.56	27.33	33.00	PASS
EGPRS1900	512	2	26.66	26.43	33.00	PASS
EGPRS1900	512	3	24.66	24.43	33.00	PASS
EGPRS1900	512	4	23.65	23.42	33.00	PASS
EGPRS1900	661	1	27.43	27.2	33.00	PASS
EGPRS1900	661	2	26.58	26.35	33.00	PASS
EGPRS1900	661	3	24.57	24.34	33.00	PASS
EGPRS1900	661	4	23.59	23.36	33.00	PASS
EGPRS1900	810	1	27.20	26.97	33.00	PASS
EGPRS1900	810	2	26.38	26.15	33.00	PASS
EGPRS1900	810	3	24.38	24.15	33.00	PASS
EGPRS1900	810	4	23.40	23.17	33.00	PASS



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**Peak-to-Average Ratio(CCDF)****Test Result**

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	7.72	13	PASS
GSM850	190	7.72	13	PASS
GSM850	251	7.72	13	PASS
EGPRS850	128	12.2	13	PASS
EGPRS850	190	12.34	13	PASS
EGPRS850	251	12.24	13	PASS
GSM1900	512	9.52	13	PASS
GSM1900	661	9.42	13	PASS
GSM1900	810	9.52	13	PASS
EGPRS1900	512	12.14	13	PASS
EGPRS1900	661	12.12	13	PASS
EGPRS1900	810	12.04	13	PASS



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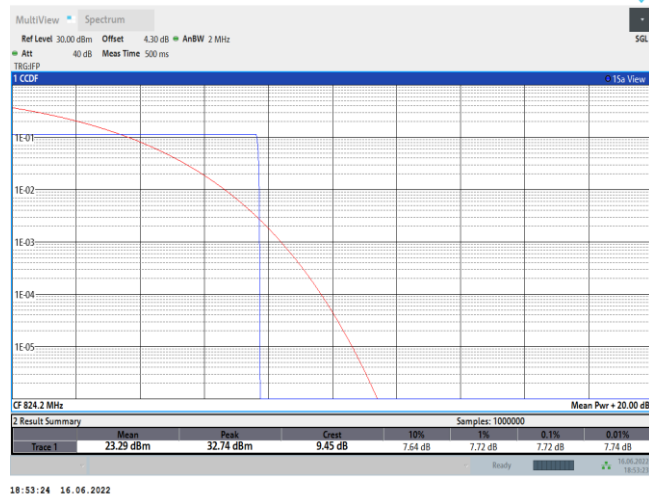
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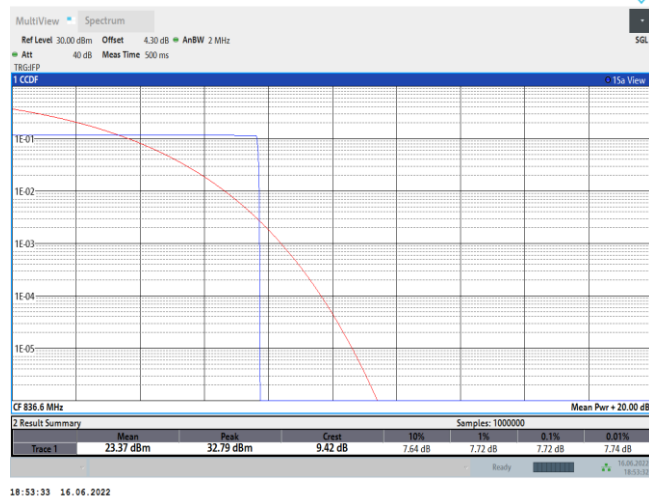
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## Test Graphs

GSM850-128



GSM850-190



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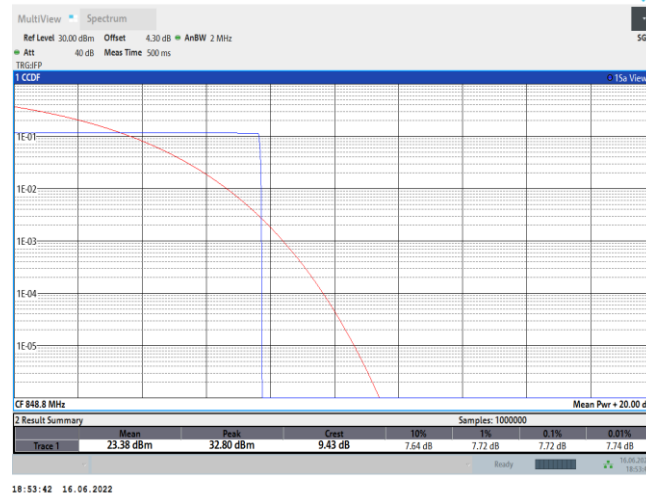
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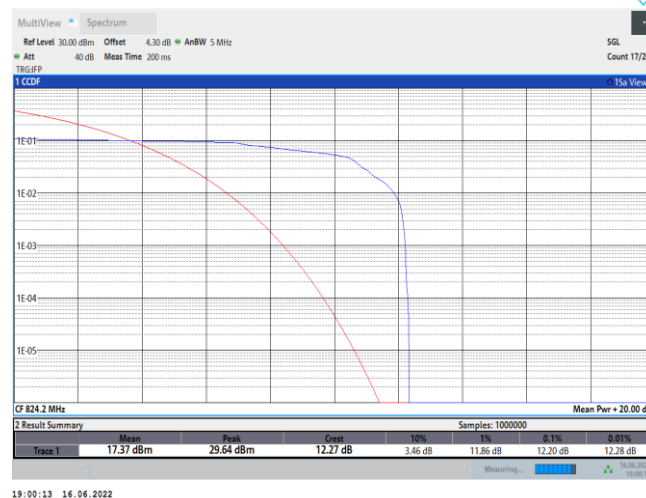
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## GSM850-251



18:53:42 16.06.2022

## EGPRS850-128



19:00:13 16.06.2022

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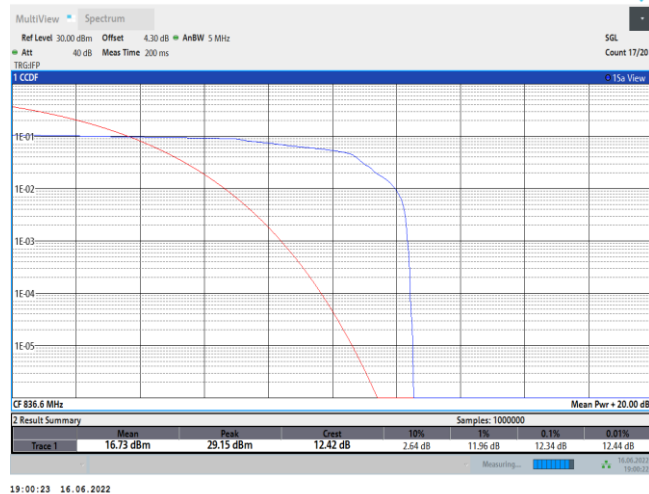


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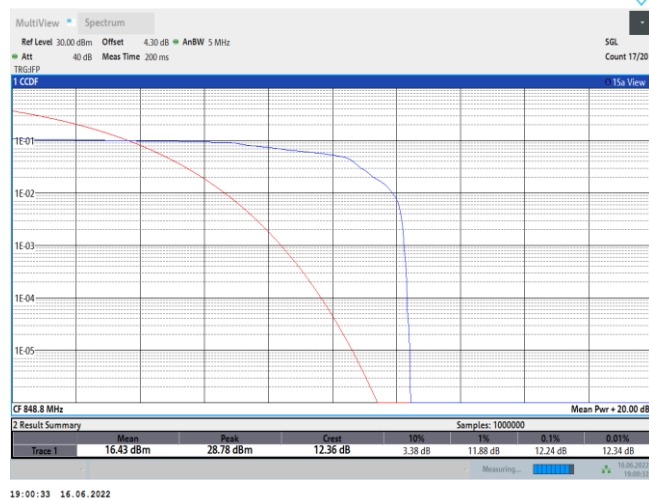
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## EGPRS850-190



## EGPRS850-251



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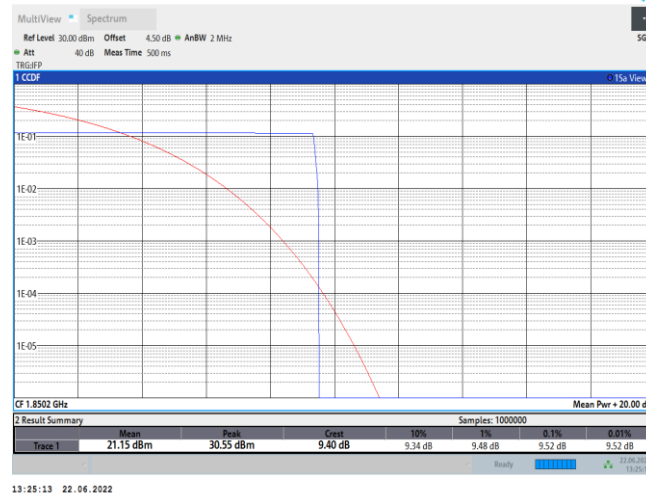
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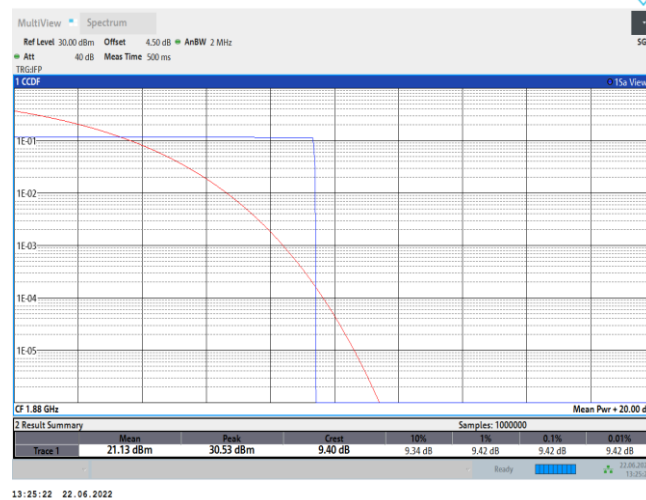
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## GSM1900-512



## GSM1900-661



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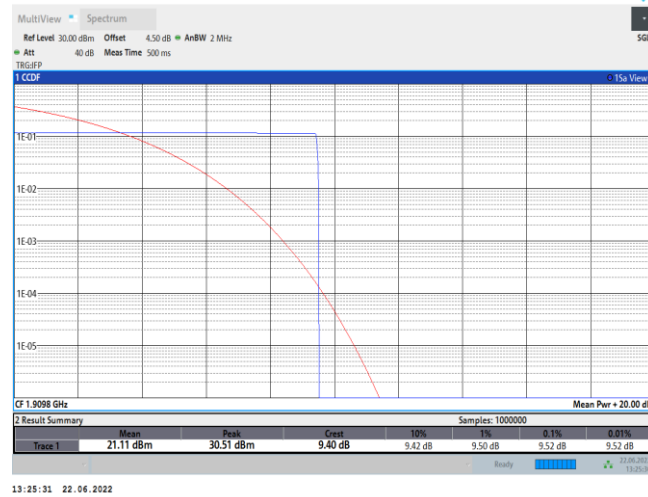


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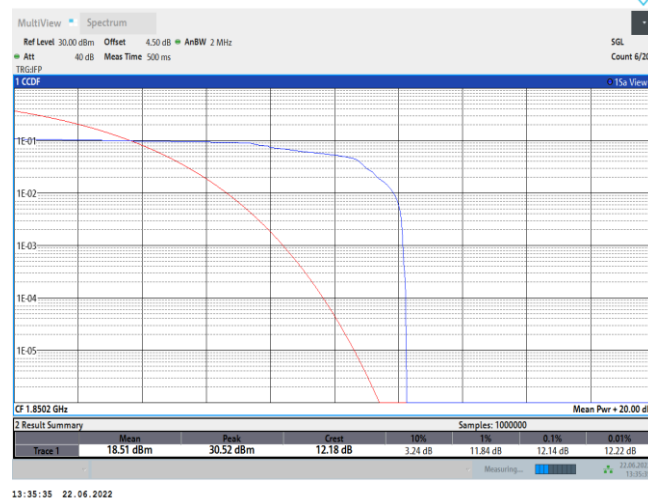
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## GSM1900-810



## EGPRS1900-512

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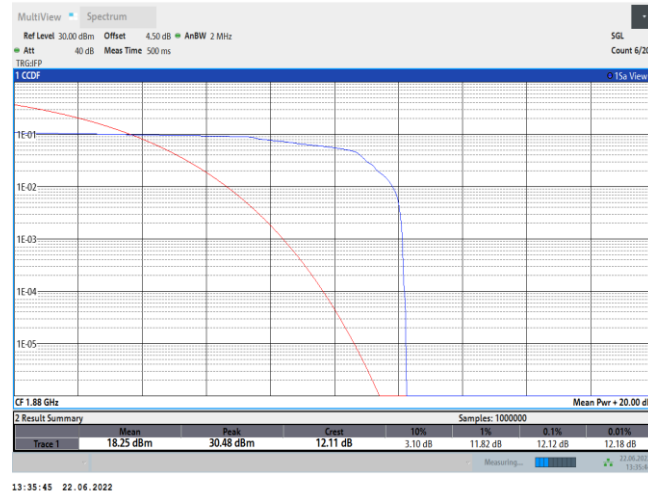
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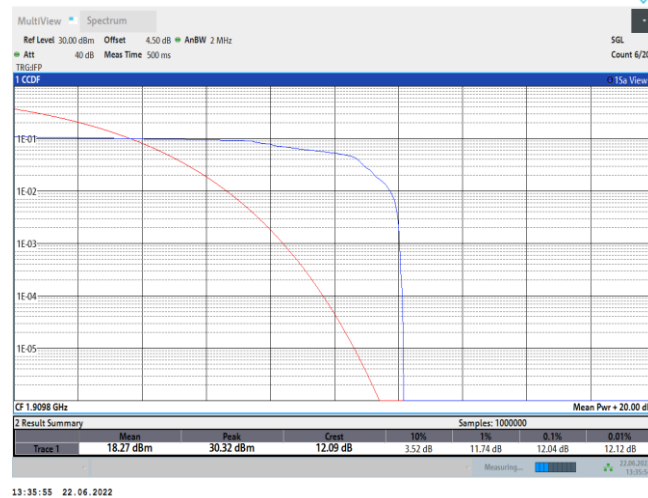
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### EGPRS1900-661



### 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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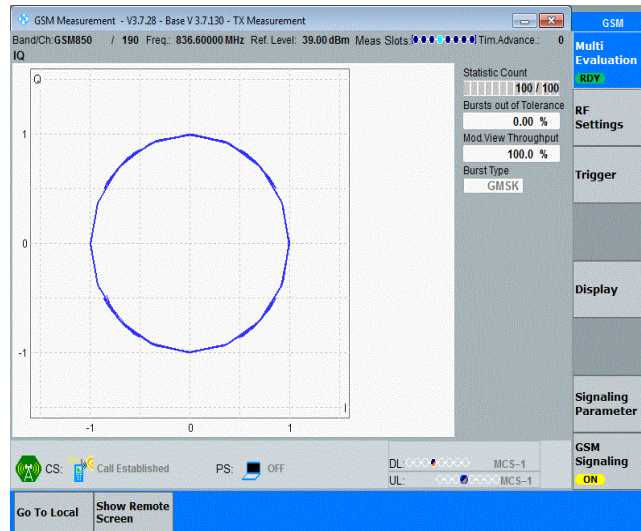
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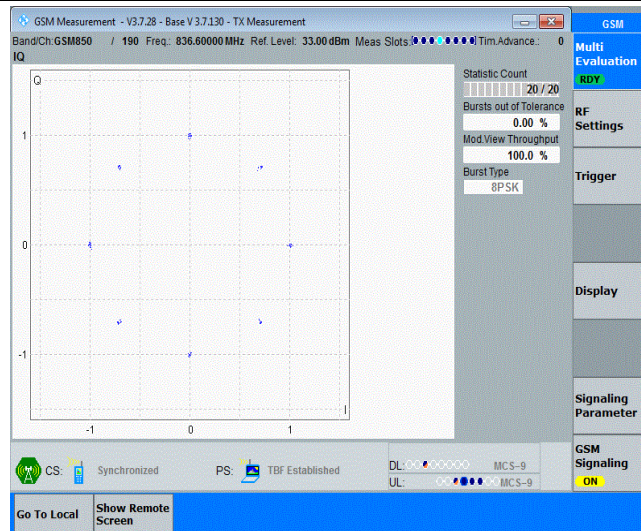
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## Test Graphs

GSM850-190



EGPRS850-190



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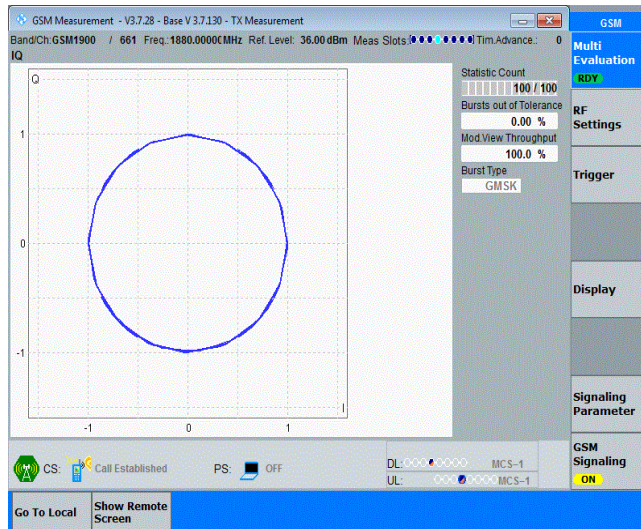


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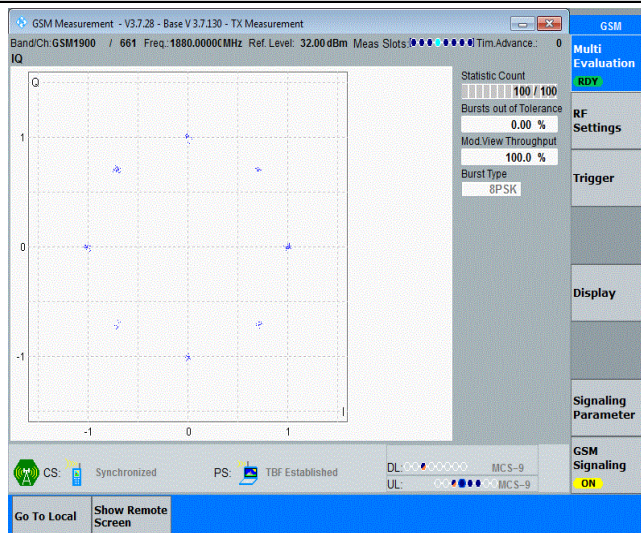
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### GSM1900-661



### 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	0.245	0.32	---	PASS
GSM850	190	0.246	0.32	---	PASS
GSM850	251	0.248	0.32	---	PASS
EGPRS850	128	0.25	0.33	---	PASS
EGPRS850	190	0.25	0.32	---	PASS
EGPRS850	251	0.251	0.32	---	PASS
GSM1900	512	0.246	0.32	---	PASS
GSM1900	661	0.245	0.31	---	PASS
GSM1900	810	0.245	0.31	---	PASS
EGPRS1900	512	0.255	0.34	---	PASS
EGPRS1900	661	0.254	0.33	---	PASS
EGPRS1900	810	0.256	0.33	---	PASS



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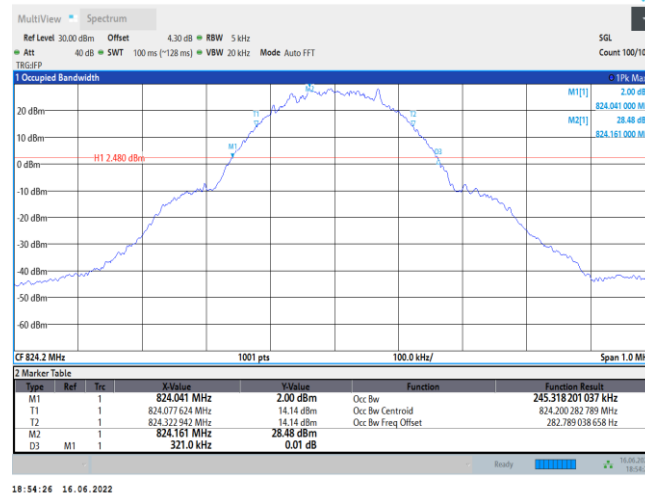
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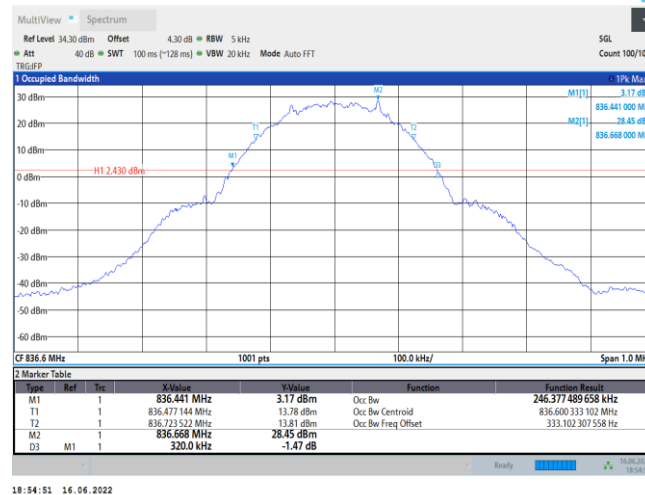
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## Test Graphs

## GSM850-128



## GSM850-190



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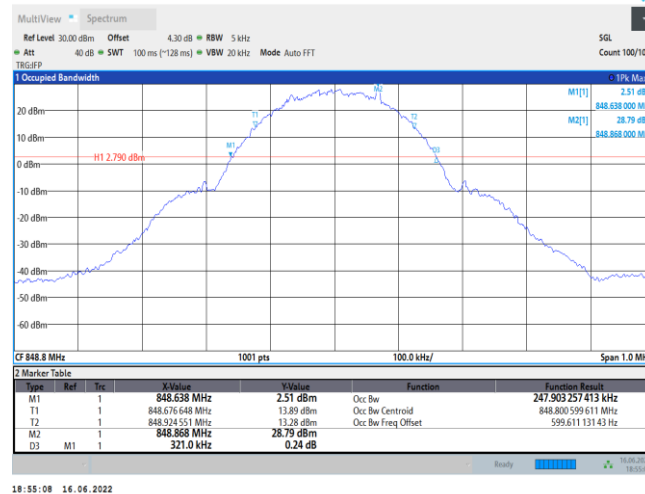
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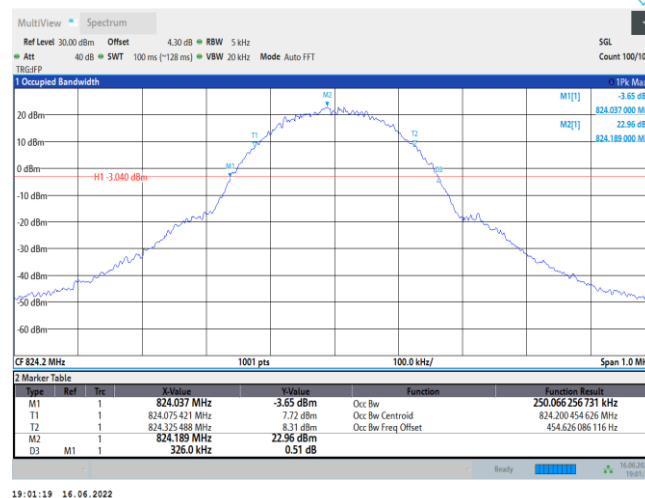
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16:55:08 16.06.2022

## EGPRS850-128



16:01:19 16.06.2022

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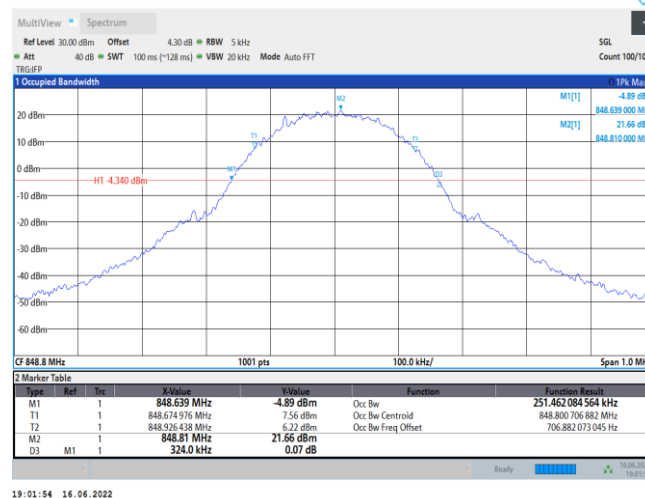
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## EGPRS850-251

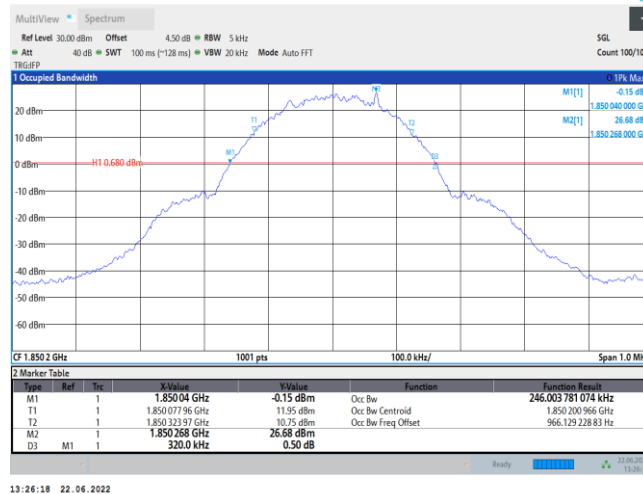


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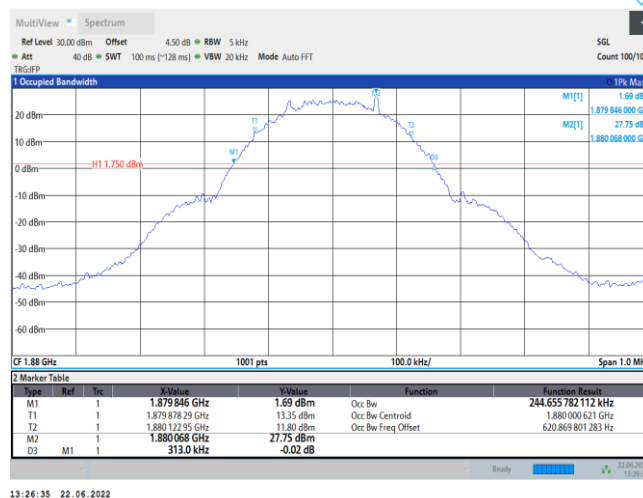
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## GSM1900-512



## GSM1900-661



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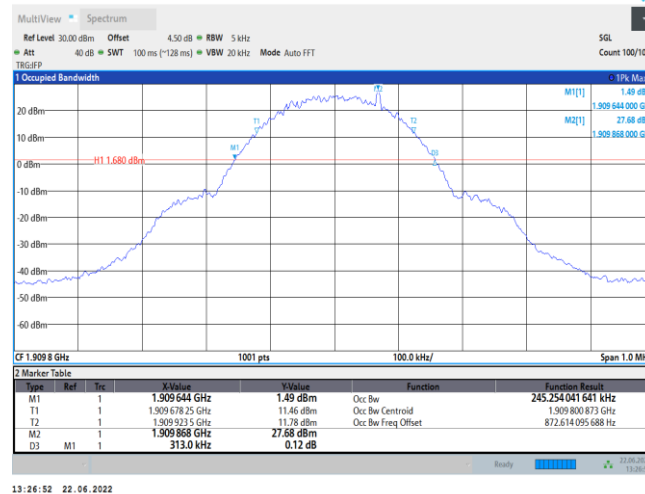


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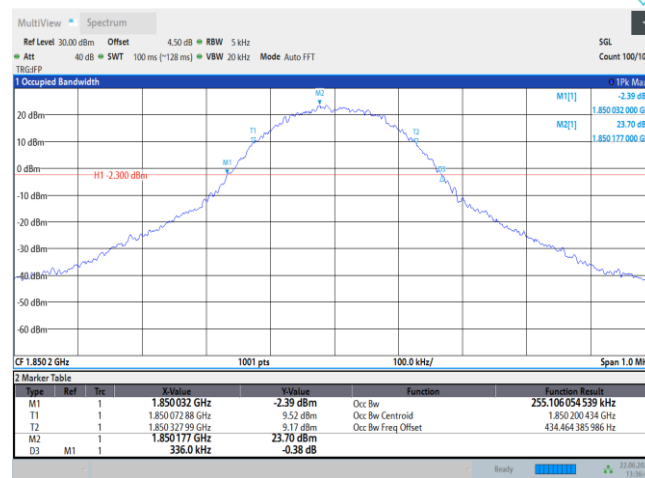
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13:26:52 22.06.2022

## EGPRS1900-512



13:36:43 22.06.2022



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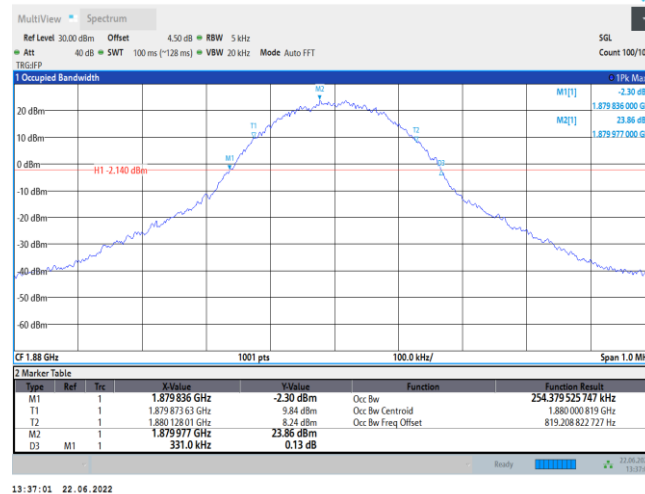
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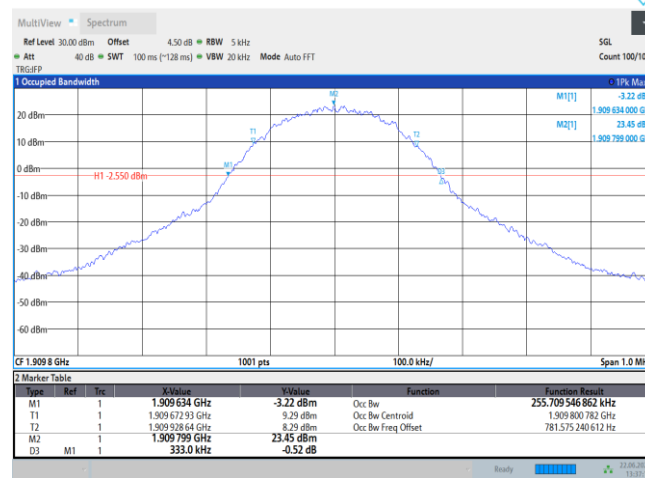
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13:37:01 22.06.2022

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13:37:18 22.06.2022

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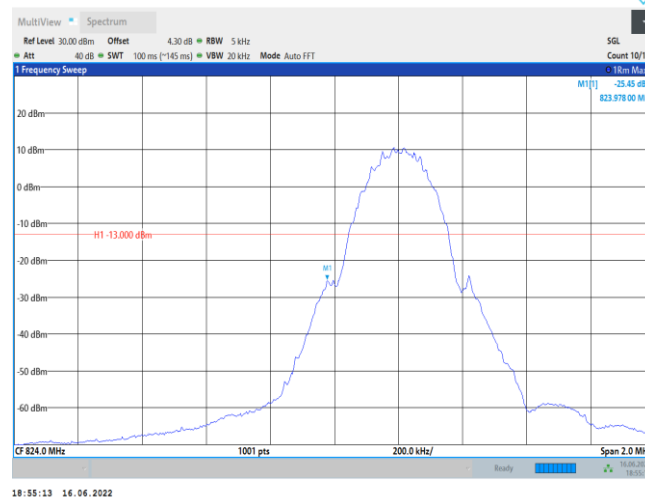
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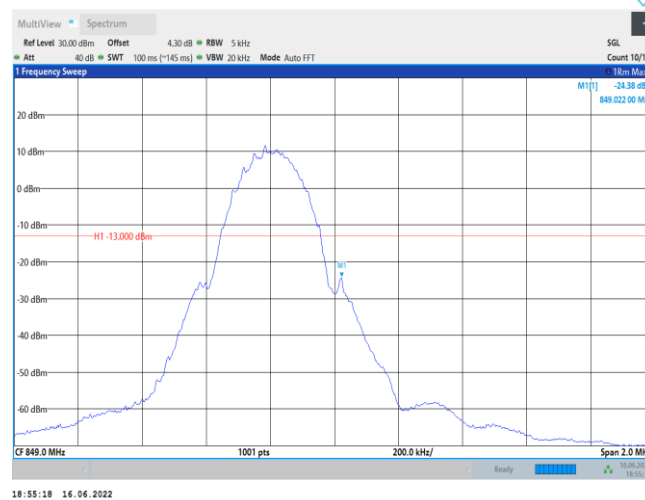
## Band Edge

## Test Graphs

GSM850-128



GSM850-251



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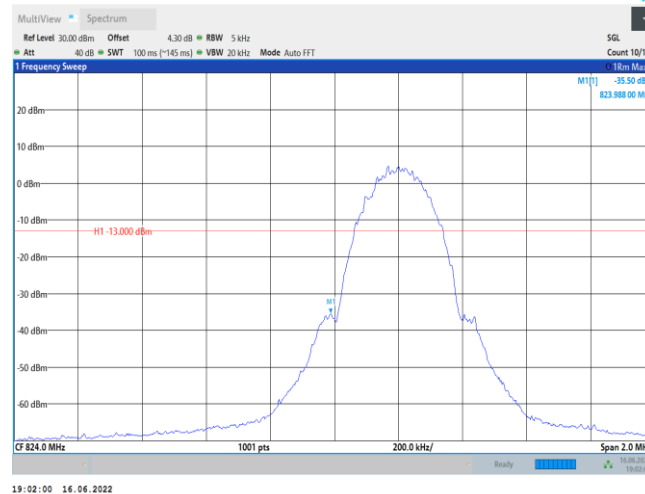
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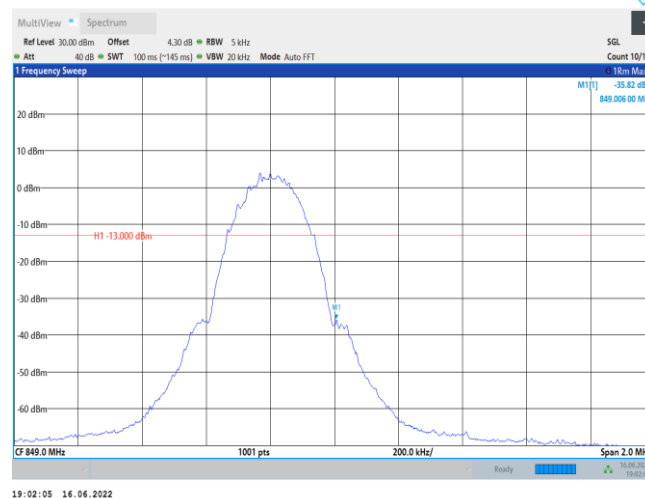
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## EGPRS850-128



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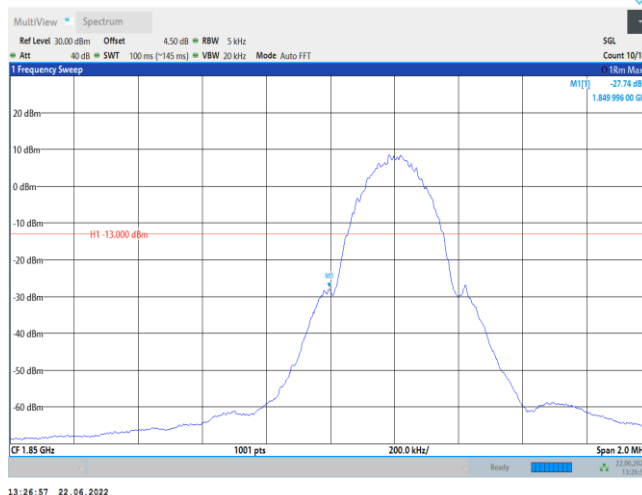
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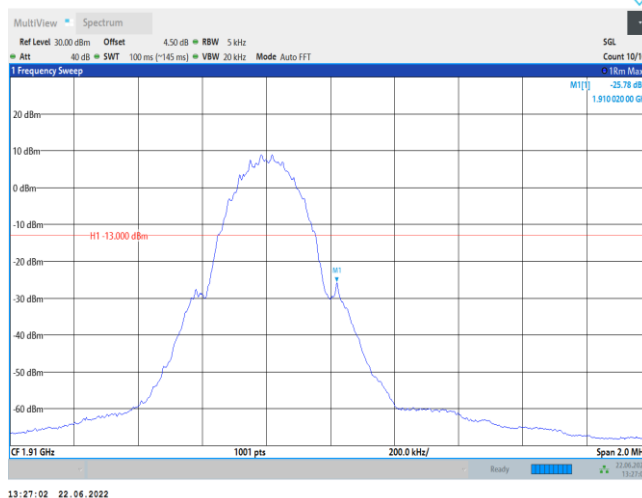
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### GSM1900-810



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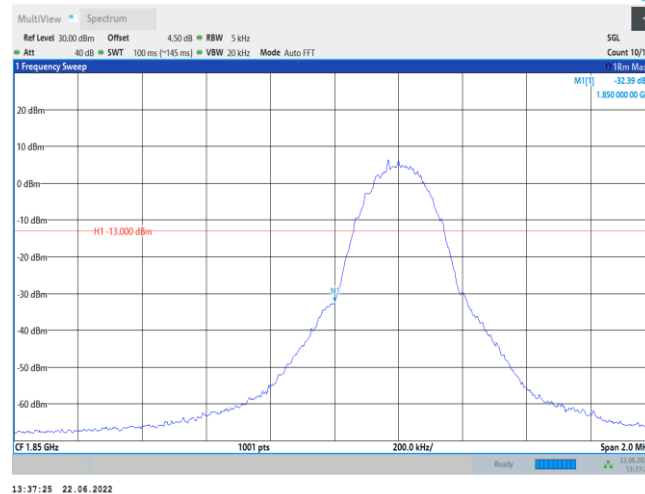


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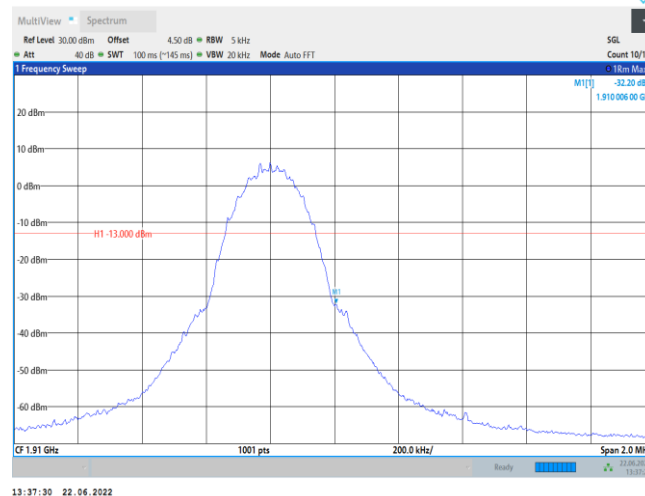
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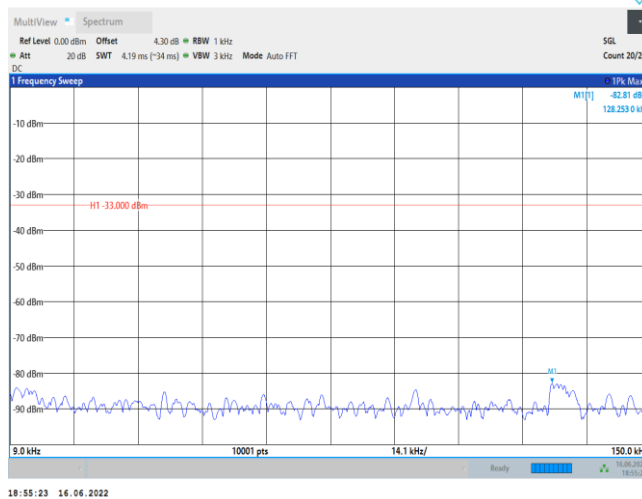
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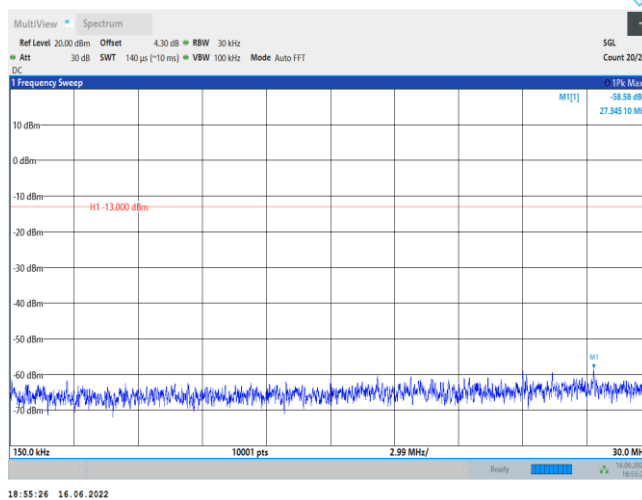
### Conducted Spurious Emission

#### Test Graphs

GSM850-128-0.009~0.15MHz



GSM850-128-0.15~30MHz



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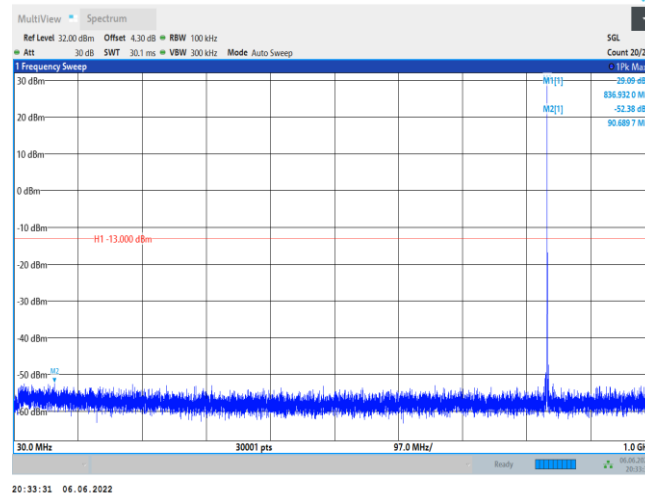
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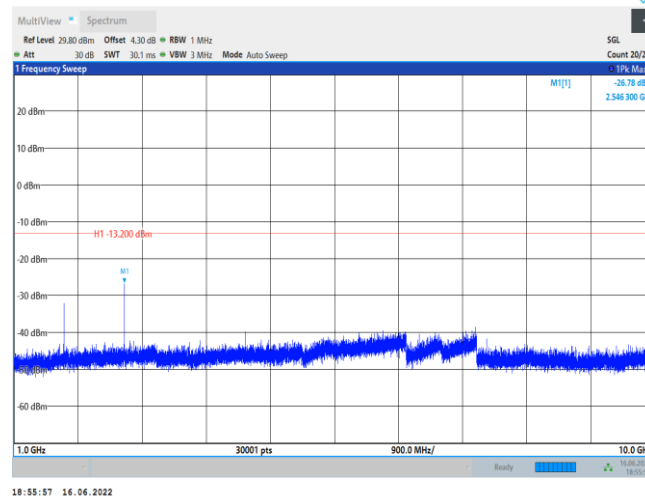
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## GSM850-128-30~1000MHz



## GSM850-128-1000~10000MHz



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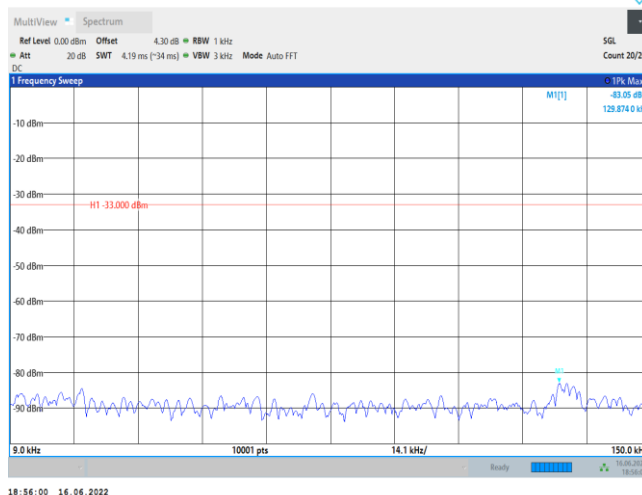
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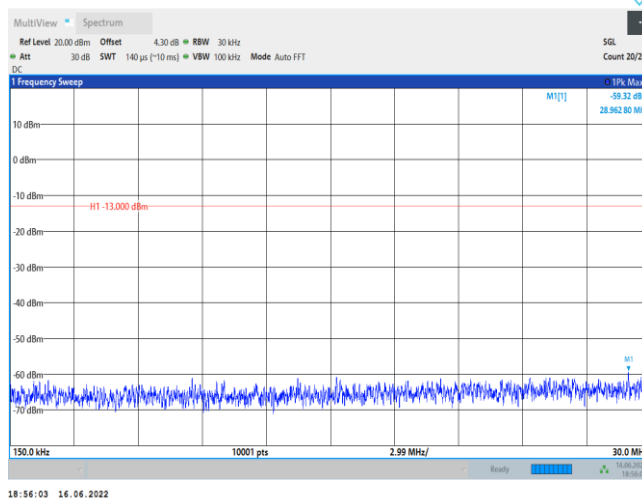
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### GSM850-190-0.009~0.15MHz



### GSM850-190-0.15~30MHz



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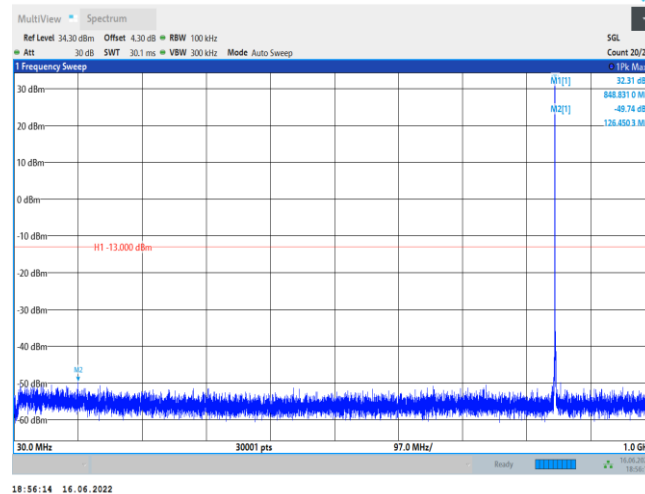
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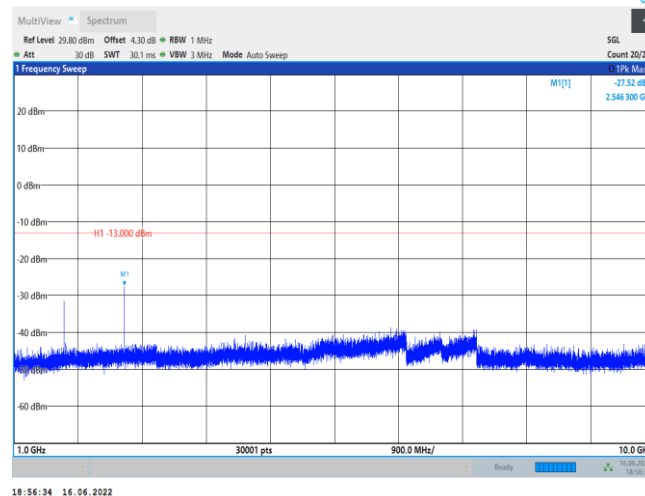
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## GSM850-190-30~1000MHz



## GSM850-190-1000~10000MHz

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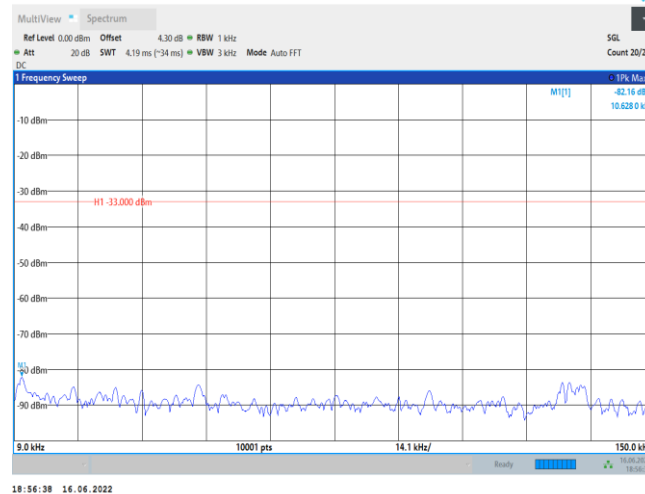


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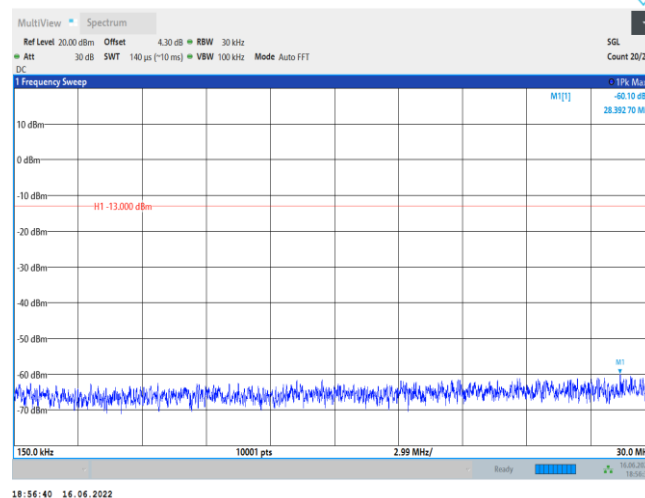
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## GSM850-251-0.009~0.15MHz



## GSM850-251-0.15~30MHz

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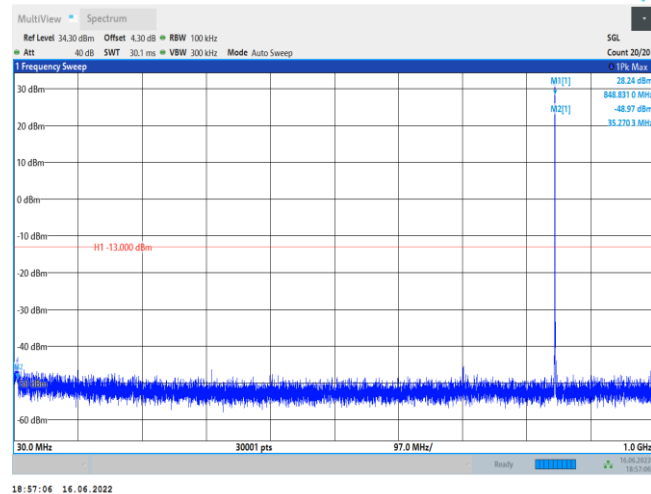
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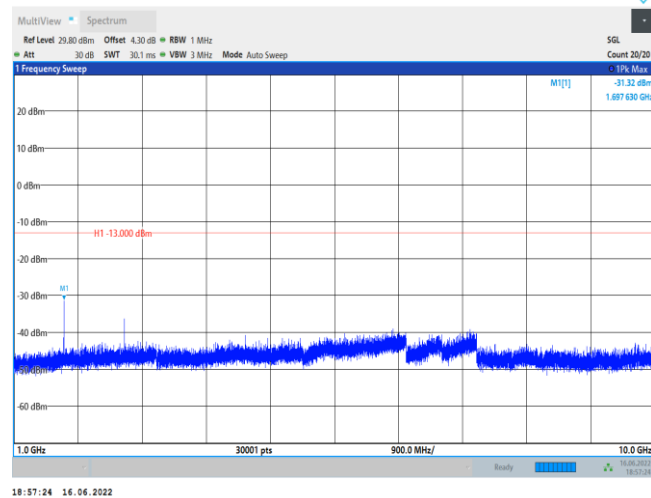
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## GSM850-251-30~1000MHz



## GSM850-251-1000~10000MHz

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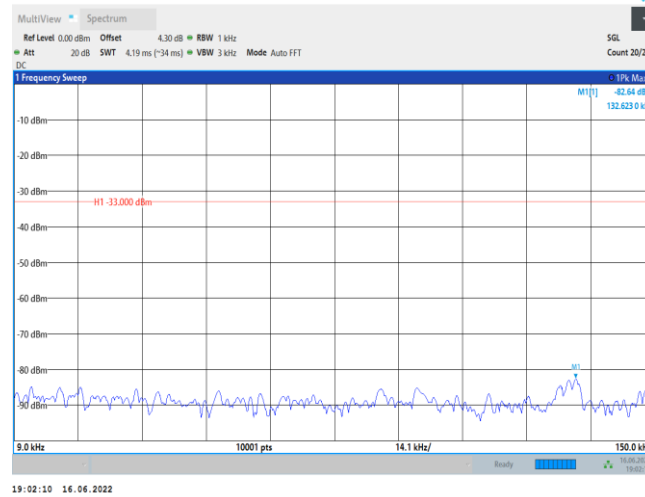
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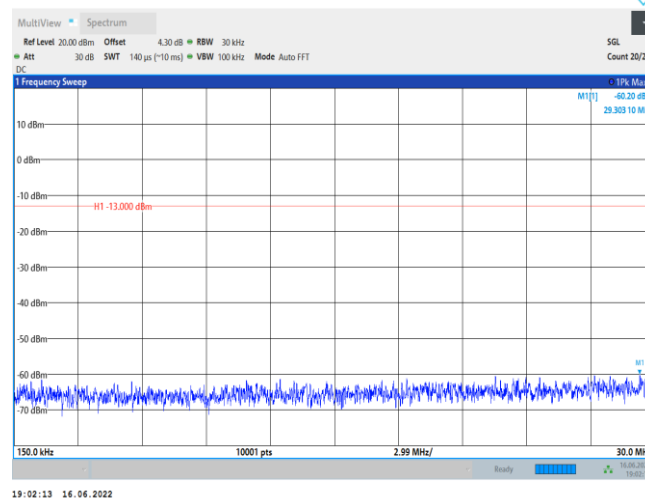
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## EGPRS850-128-0.009~0.15MHz



## EGPRS850-128-0.15~30MHz



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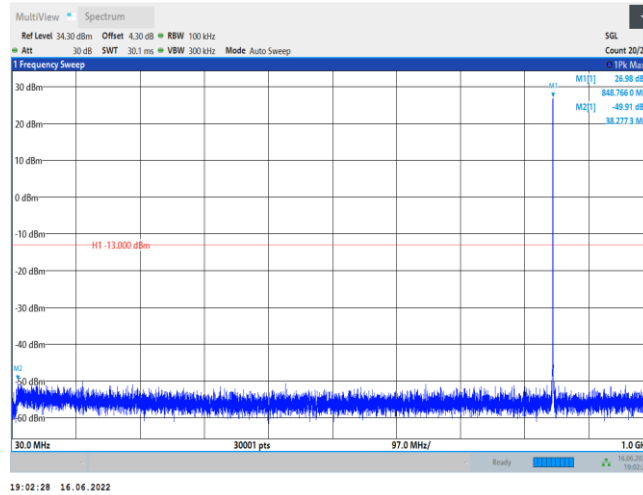
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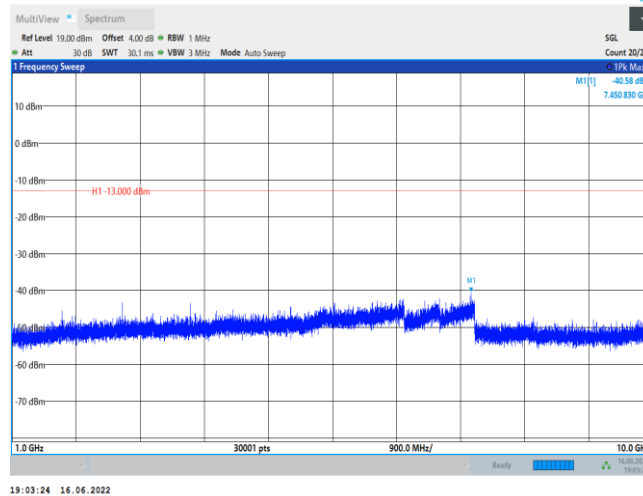
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### EGPRS850-128-30~1000MHz



### EGPRS850-128-1000~10000MHz



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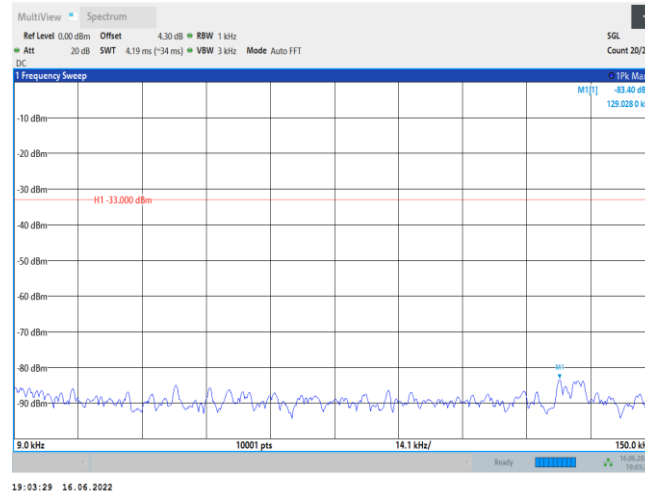
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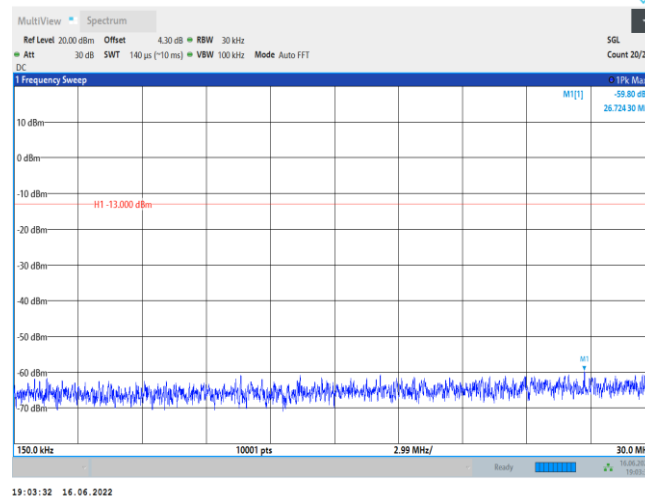
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### EGPRS850-190-0.009~0.15MHz



### EGPRS850-190-0.15~30MHz



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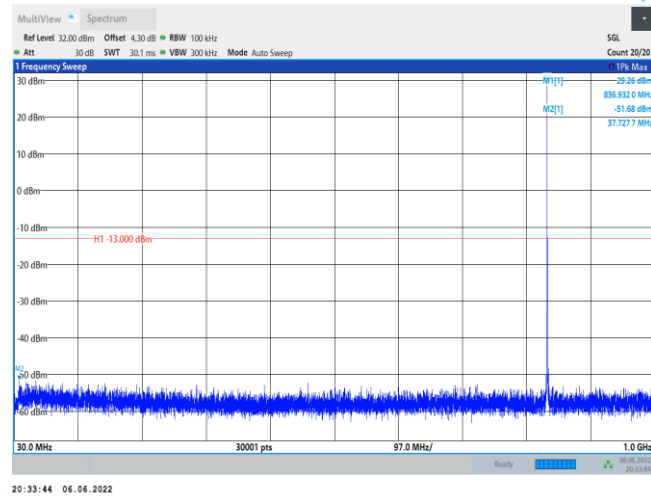


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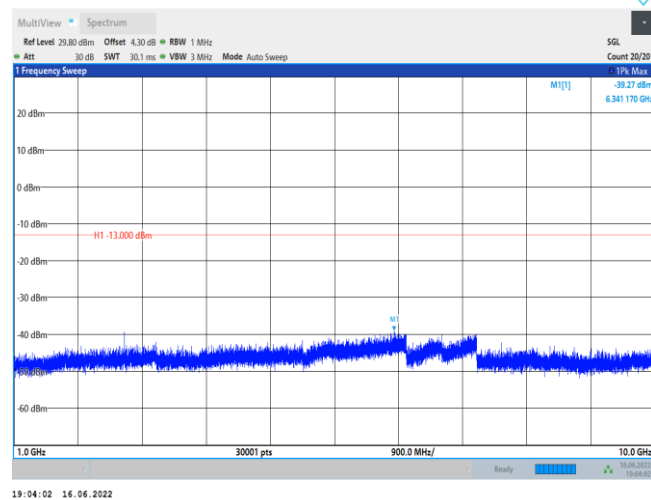
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## EGPRS850-190-30~1000MHz



## EGPRS850-190-1000~10000MHz



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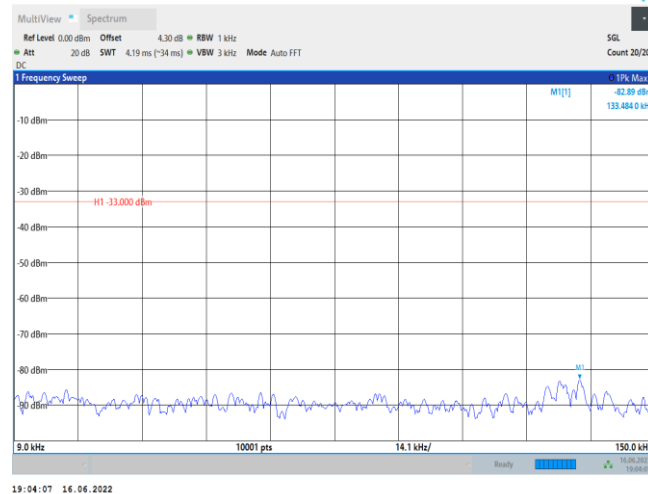
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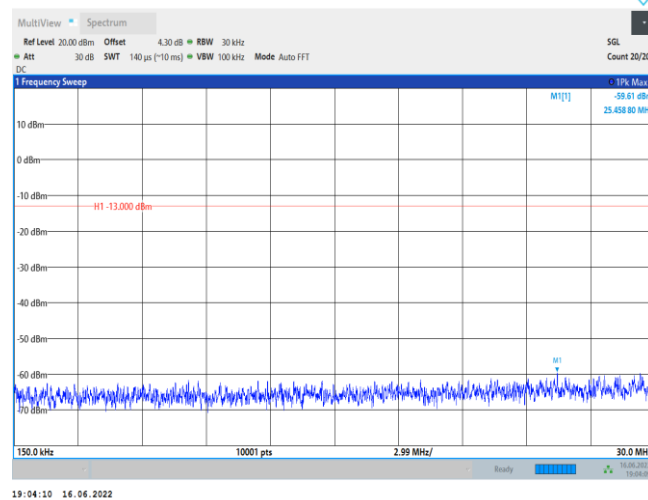
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## EGPRS850-251-0.009~0.15MHz



## EGPRS850-251-0.15~30MHz



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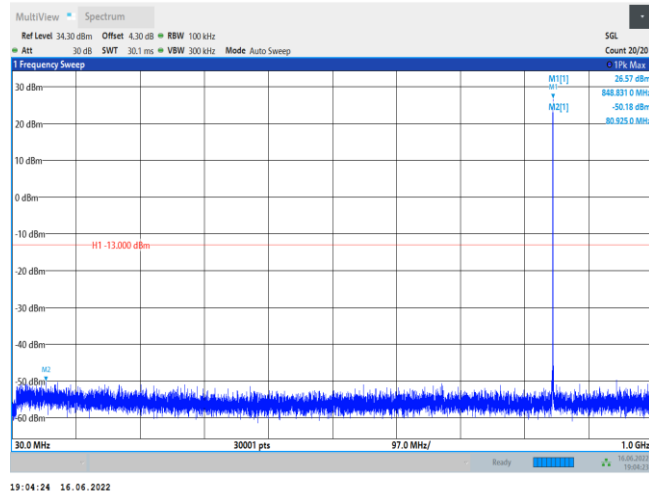
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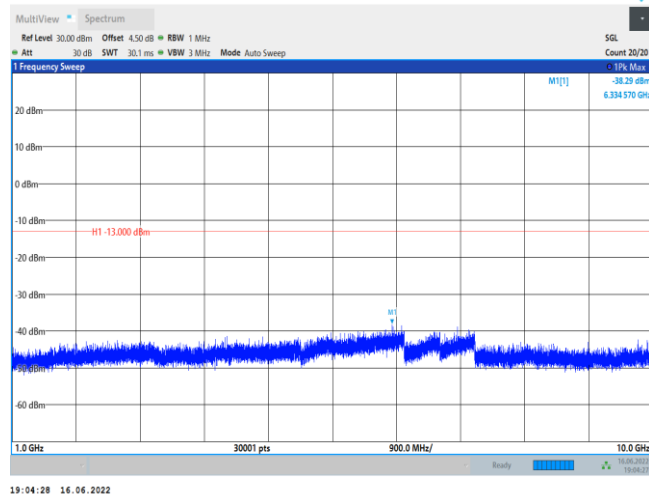
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### EGPRS850-251-30~1000MHz



### EGPRS850-251-1000~10000MHz



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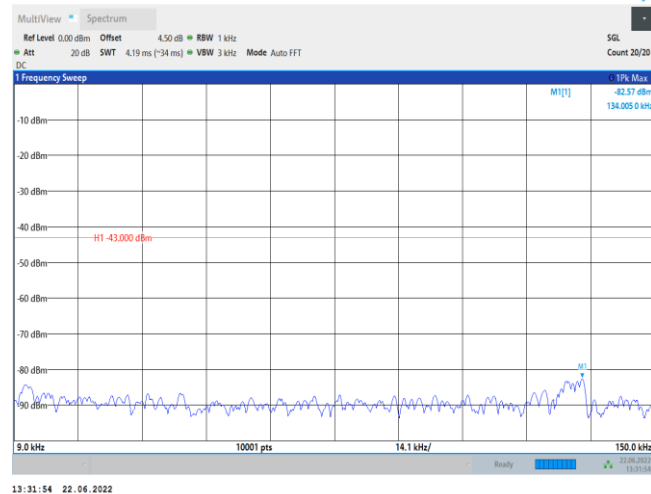
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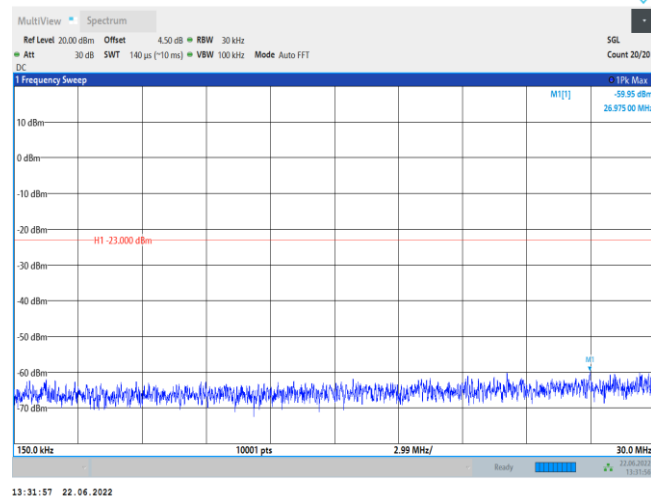
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## GSM1900-512-0.009~0.15MHz



## GSM1900-512-0.15~30MHz



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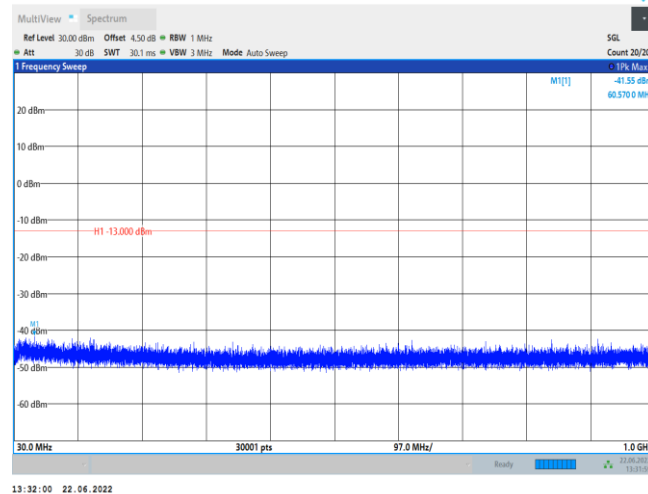
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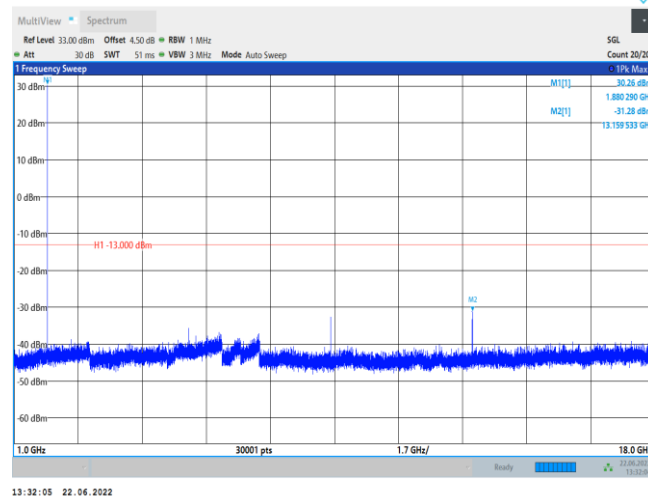
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## GSM1900-512-30~1000MHz



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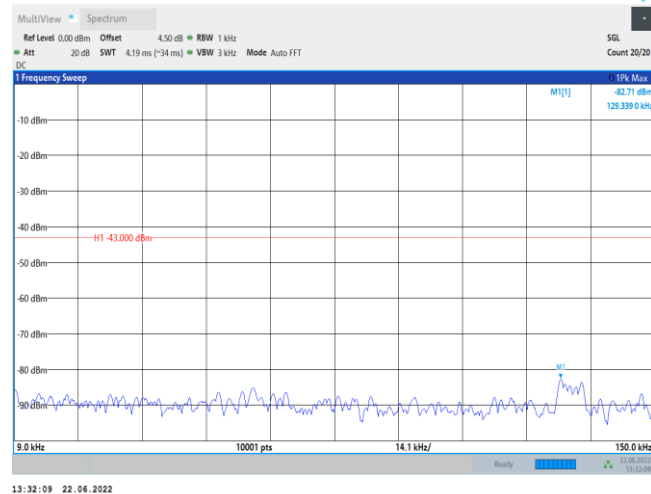


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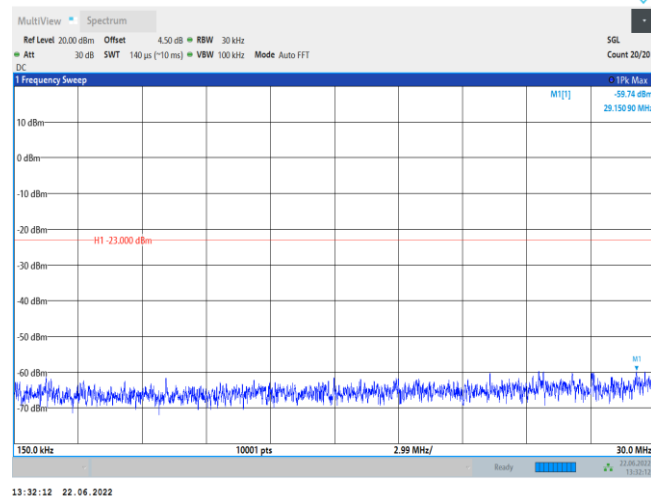
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## GSM1900-661-0.009~0.15MHz



## GSM1900-661-0.15~30MHz



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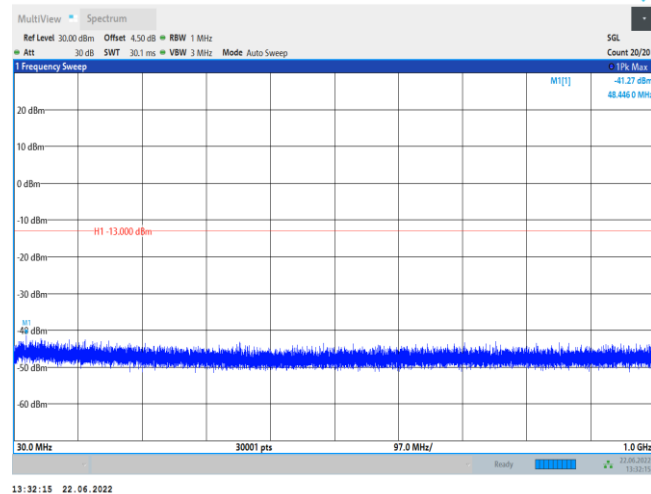
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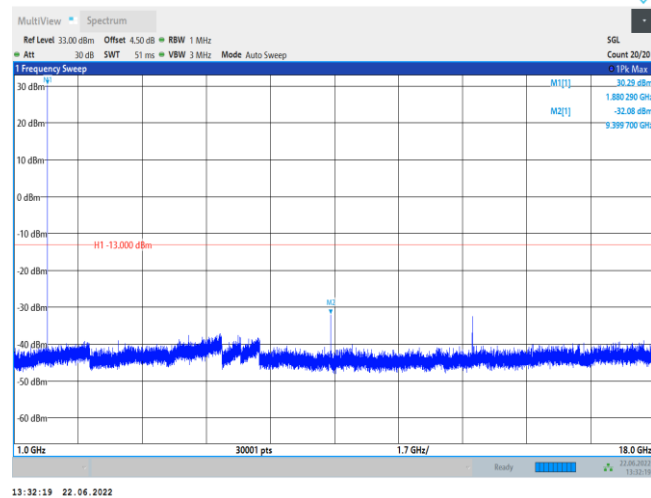
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## GSM1900-661-30~1000MHz



## GSM1900-661-1000~18000MHz

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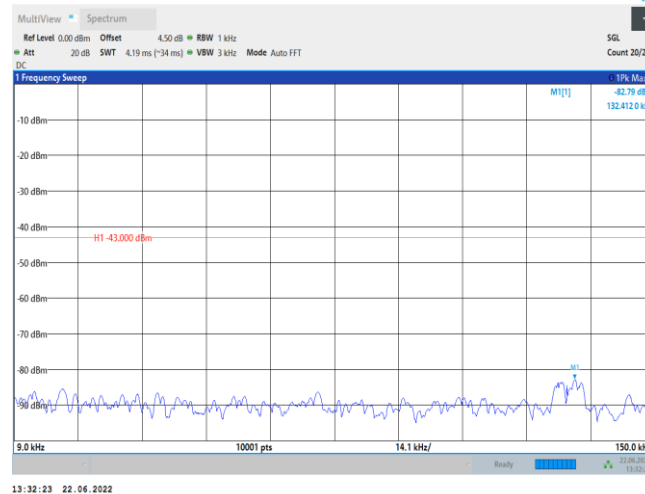
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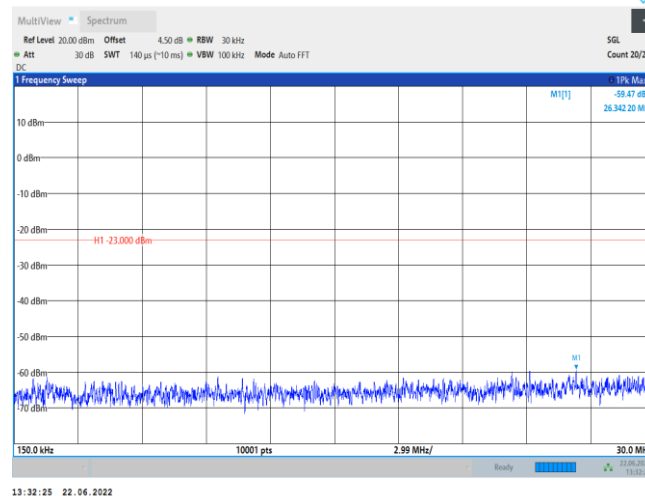
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## GSM1900-810-0.009~0.15MHz



## GSM1900-810-0.15~30MHz

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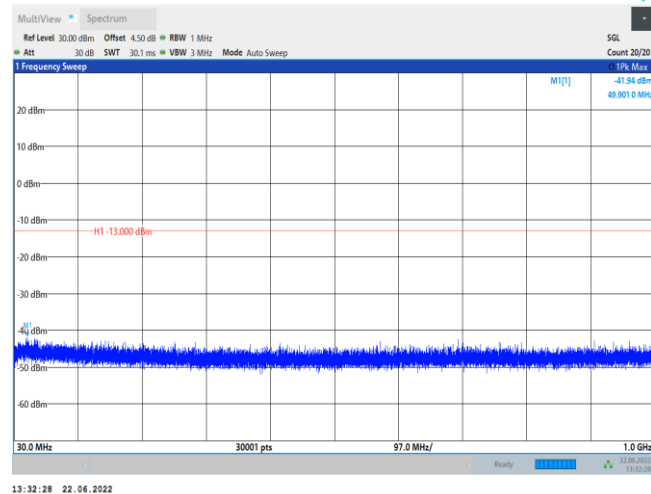
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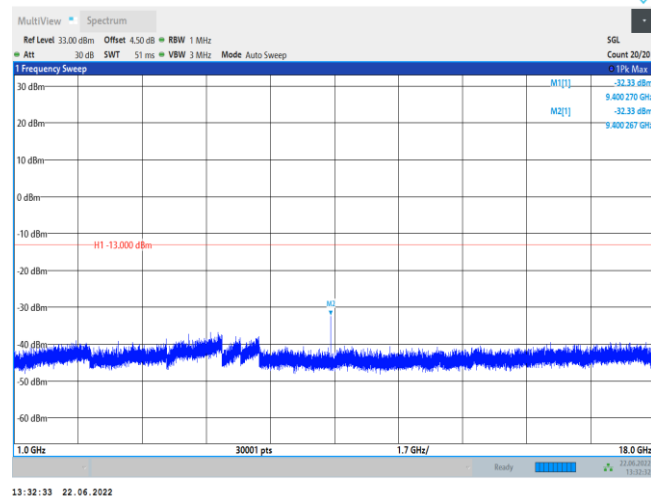
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## GSM1900-810-30~1000MHz



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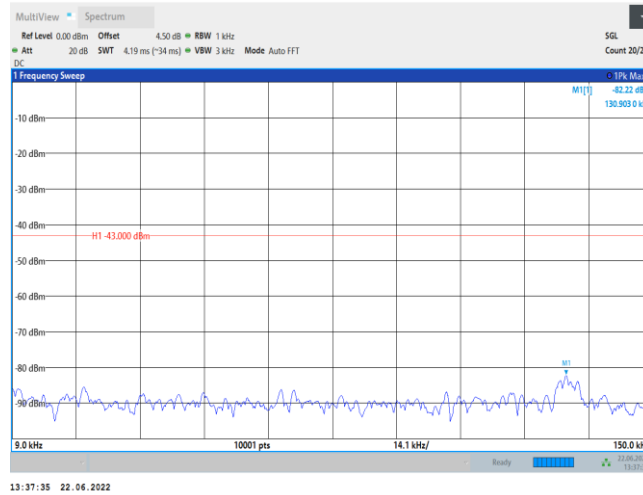
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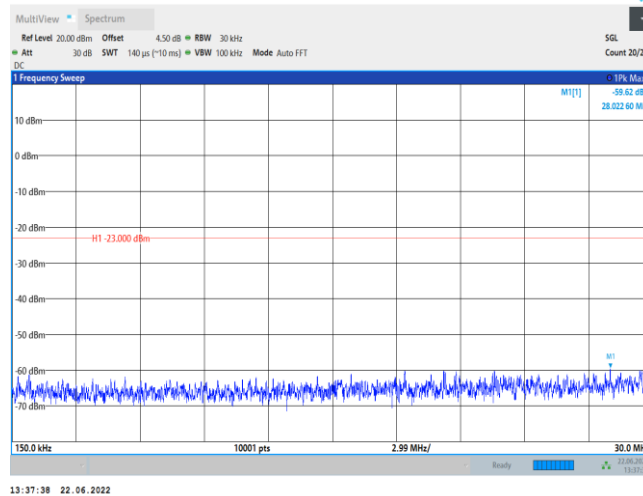
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### EGPRS1900-512-0.009~0.15MHz



### EGPRS1900-512-0.15~30MHz



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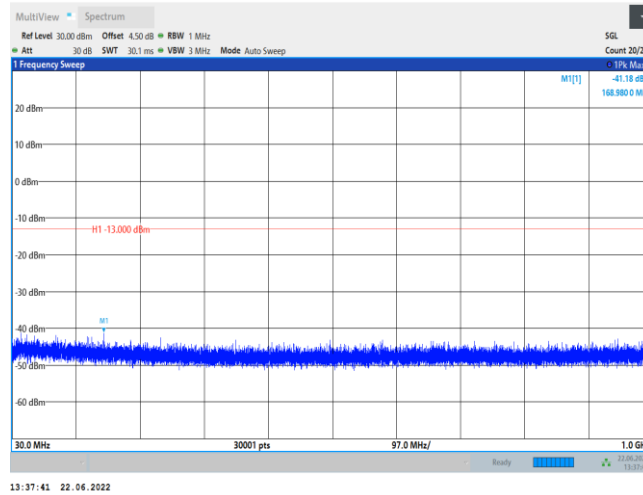


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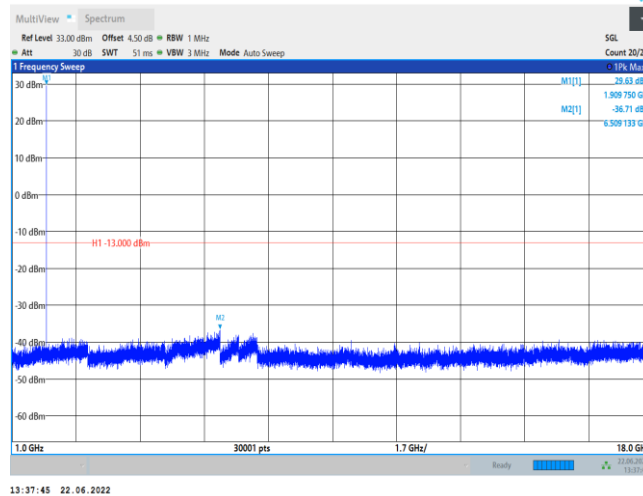
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### EGPRS1900-512-30~1000MHz



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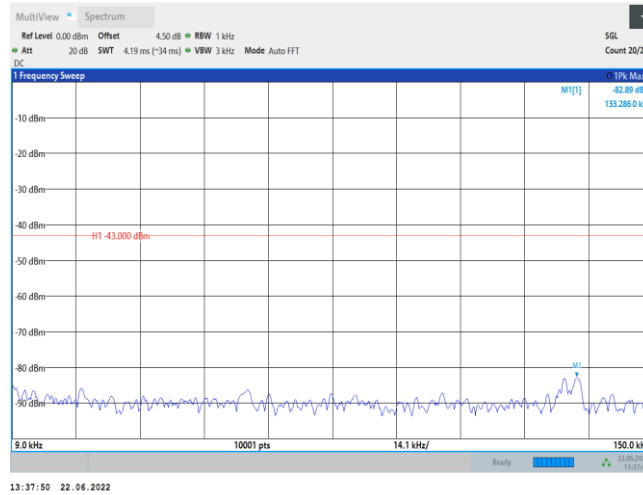
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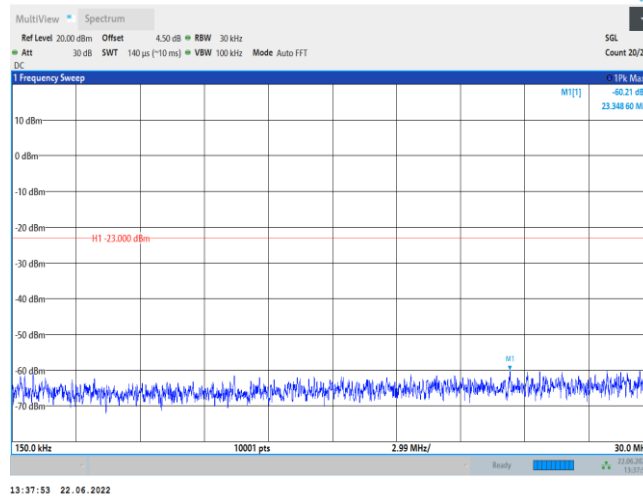
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### EGPRS1900-661-0.009~0.15MHz



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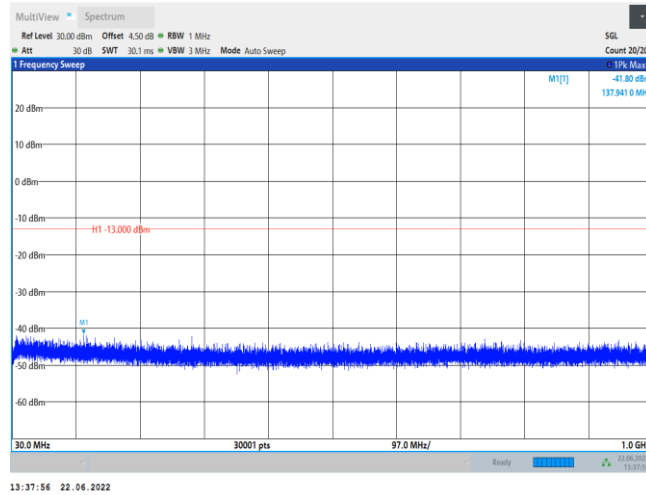
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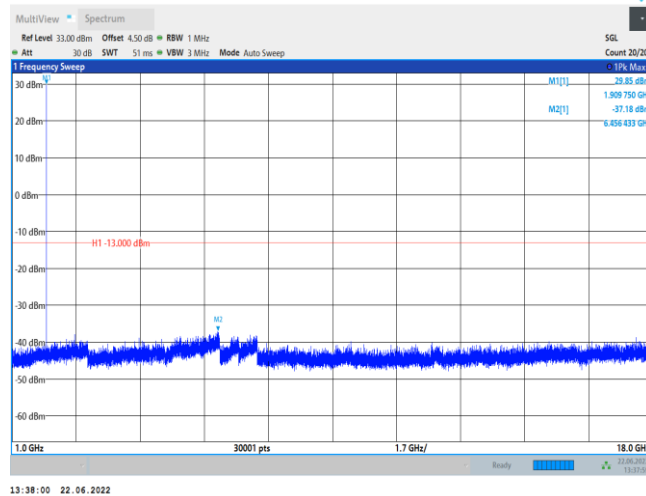
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### EGPRS1900-661-30~1000MHz



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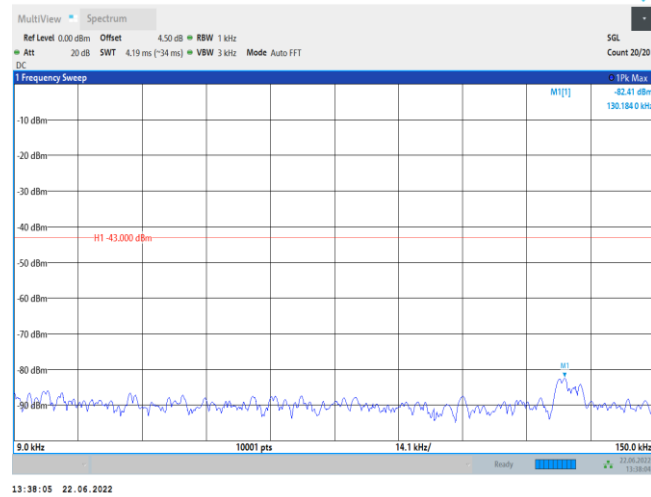
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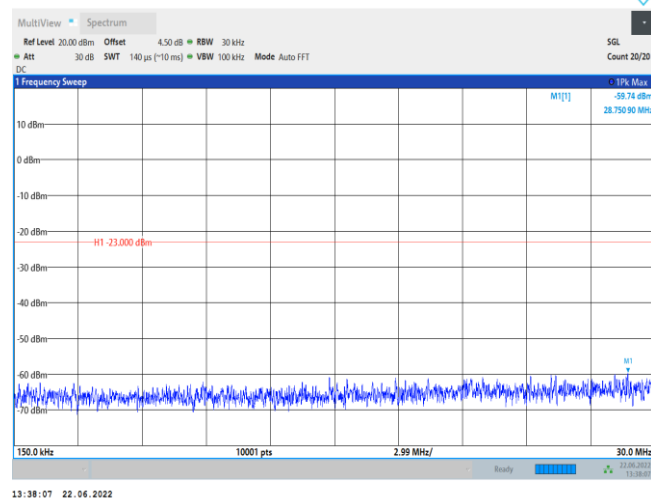
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## EGPRS1900-810-0.009~0.15MHz



## EGPRS1900-810-0.15~30MHz



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

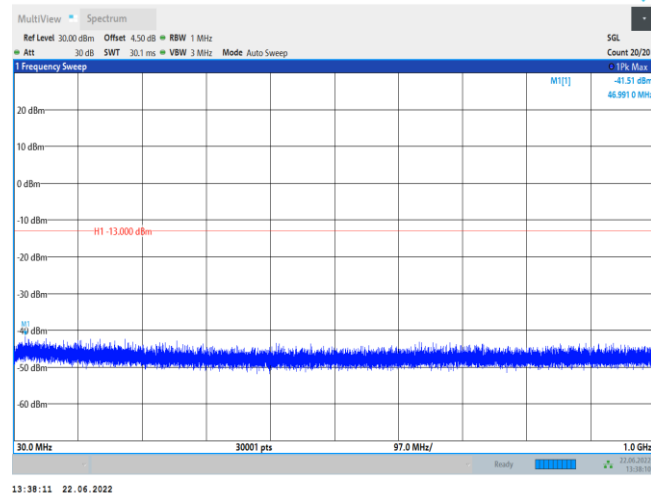
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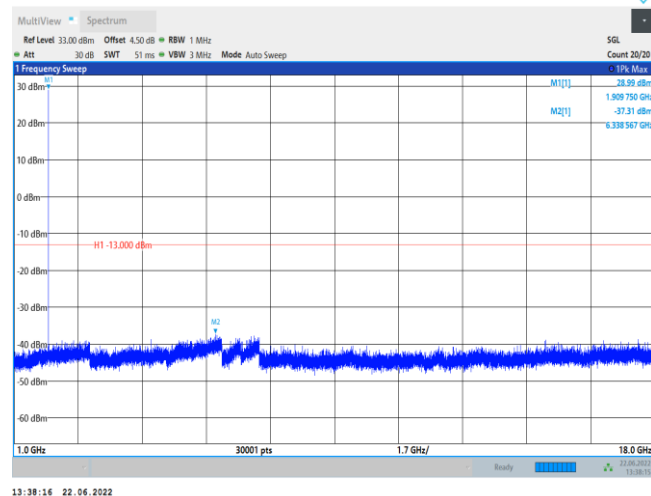
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## EGPRS1900-810-30~1000MHz



## EGPRS1900-810-1000~18000MHz



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## Field Strength of Spurious Radiation

Test Band = GSM 850\_ TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	65.18	-118.11	-52.93	-13.00	39.93	145	316	Horizontal
2	2472.6000	64.67	-114.90	-50.23	-13.00	37.23	126	134	Horizontal
3	3296.8000	57.78	-112.37	-54.59	-13.00	41.59	135	32	Horizontal
4	4121.0000	56.16	-110.19	-54.03	-13.00	41.03	194	84	Horizontal
5	4945.2000	57.78	-108.22	-50.44	-13.00	37.44	172	305	Horizontal
6	6732.5714	52.14	-103.63	-51.49	-13.00	38.49	201	246	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648	58.04	-118.11	-60.07	-13.00	47.07	184	247	Vertical
2	2472.6000	53.12	-114.90	-61.78	-13.00	48.78	195	145	Vertical
3	3296.8000	52.17	-112.37	-60.20	-13.00	47.20	135	251	Vertical
4	4121.0000	52.79	-110.19	-57.40	-13.00	44.40	164	95	Vertical
5	4945.2000	56.25	-108.22	-51.97	-13.00	38.97	172	286	Vertical
6	7418.8571	51.70	-102.07	-50.37	-13.00	37.37	211	258	Vertical



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

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**Test Band = GSM 850\_ TM1****Test Channel = Mid**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	71.85	-118.07	-46.22	-13.00	33.22	184	256	Horizontal
2	2509.2000	65.63	-114.69	-49.06	-13.00	36.06	165	33	Horizontal
3	3345.6000	54.77	-112.38	-57.61	-13.00	44.61	199	4	Horizontal
4	4182.0000	54.68	-110.14	-55.46	-13.00	42.46	172	4	Horizontal
5	5018.4000	51.66	-108.10	-56.44	-13.00	43.44	256	144	Horizontal
6	6995.4286	51.61	-102.78	-51.17	-13.00	38.17	231	144	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	60.09	-118.07	-57.98	-13.00	44.98	175	317	Vertical
2	2509.1429	59.59	-114.70	-55.11	-13.00	42.11	142	246	Vertical
3	3345.6000	52.16	-112.38	-60.22	-13.00	47.22	233	196	Vertical
4	4182.0000	51.53	-110.14	-58.61	-13.00	45.61	201	226	Vertical
5	5018.4000	51.13	-108.10	-56.97	-13.00	43.97	165	307	Vertical
6	5969.7143	53.26	-105.78	-52.52	-13.00	39.52	180	0	Vertical



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Test Band = GSM 850\_ TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	77.53	-118.03	-40.50	-13.00	27.50	178	308	Horizontal
2	2546.4000	65.96	-114.45	-48.49	-13.00	35.49	194	124	Horizontal
3	3395.2000	54.79	-112.37	-57.58	-13.00	44.58	155	345	Horizontal
4	4244.0000	56.63	-109.95	-53.32	-13.00	40.32	168	185	Horizontal
5	5092.8000	51.10	-107.74	-56.64	-13.00	43.64	194	113	Horizontal
6	5941.7143	55.05	-105.99	-50.94	-13.00	37.94	170	352	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	63.76	-118.03	-54.27	-13.00	41.27	228	297	Vertical
2	2546.4000	60.69	-114.45	-53.76	-13.00	40.76	194	23	Vertical
3	3395.2000	52.74	-112.37	-59.63	-13.00	46.63	172	156	Vertical
4	4244.0000	52.91	-109.95	-57.04	-13.00	44.04	256	34	Vertical
5	5092.8000	49.85	-107.74	-57.89	-13.00	44.89	238	23	Vertical
6	6321.7143	51.82	-105.44	-53.62	-13.00	40.62	181	1	Vertical



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**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	50.00	-110.79	-60.79	-13.00	47.79	186	14	Horizontal
2	5550.6000	49.71	-107.45	-57.74	-13.00	44.74	194	2	Horizontal
3	7400.8000	49.17	-102.18	-53.01	-13.00	40.01	172	231	Horizontal
4	9251.0000	46.93	-97.12	-50.19	-13.00	37.19	235	34	Horizontal
5	11101.2000	43.36	-94.13	-50.77	-13.00	37.77	168	14	Horizontal
6	13328.25	45.69	-91.91	-46.22	-13.00	33.22	190	173	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4000	50.35	-110.79	-60.44	-13.00	47.44	144	210	Vertical
2	5550.6000	49.49	-107.45	-57.96	-13.00	44.96	258	1	Vertical
3	7400.8000	49.10	-102.18	-53.08	-13.00	40.08	194	232	Vertical
4	9251.0000	44.62	-97.12	-52.50	-13.00	39.50	170	221	Vertical
5	11101.2000	43.59	-94.13	-50.54	-13.00	37.54	231	26	Vertical
6	13702.5	45.17	-91.37	-46.20	-13.00	33.20	155	8	Vertical



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**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	50.55	-110.83	-60.28	-13.00	47.28	228	209	Horizontal
2	5640.0000	50.13	-107.08	-56.95	-13.00	43.95	197	255	Horizontal
3	7520.0000	47.79	-101.93	-54.14	-13.00	41.14	148	289	Horizontal
4	9400.0000	47.11	-96.60	-49.49	-13.00	36.49	163	242	Horizontal
5	11280.0000	43.61	-93.56	-49.95	-13.00	36.95	201	209	Horizontal
6	13837.5	45.36	-91.31	-45.95	-13.00	32.95	233	232	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	51.67	-110.83	-59.16	-13.00	46.16	148	129	Vertical
2	5640.0000	48.87	-107.08	-58.21	-13.00	45.21	159	152	Vertical
3	7520.0000	48.69	-101.93	-53.24	-13.00	40.24	265	71	Vertical
4	9400.0000	45.99	-96.60	-50.61	-13.00	37.61	188	1	Vertical
5	11280.0000	44.65	-93.56	-48.91	-13.00	35.91	172	118	Vertical
6	13719	46.84	-91.43	-44.59	-13.00	31.59	239	71	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	51.74	-110.87	-59.13	-13.00	46.13	199	139	Horizontal
2	7639.2000	48.46	-101.80	-53.34	-13.00	40.34	285	356	Horizontal
3	9549.0000	44.11	-96.76	-52.65	-13.00	39.65	147	334	Horizontal
4	11458.8000	43.21	-93.55	-50.34	-13.00	37.34	122	161	Horizontal
5	12723	45.71	-92.48	-46.77	-13.00	33.77	159	253	Horizontal
6	16949.25	44.88	-90.60	-45.72	-13.00	32.72	119	70	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	52.07	-110.87	-58.80	-13.00	45.80	190	0	Vertical
2	7639.2000	47.74	-101.80	-54.06	-13.00	41.06	120	334	Vertical
3	9549.0000	44.13	-96.76	-52.63	-13.00	39.63	148	102	Vertical
4	11458.8000	42.41	-93.55	-51.14	-13.00	38.14	166	125	Vertical
5	13776	45.18	-91.62	-46.44	-13.00	33.44	239	79	Vertical
6	16477.5	45.06	-91.37	-46.31	-13.00	33.31	221	264	Vertical



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## Frequency Stability

### Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	VL	NT	28.67	0.034270	±2.5	PASS
GSM850	190	VN	NT	27.84	0.033278	±2.5	PASS
GSM850	190	VH	NT	24.76	0.029596	±2.5	PASS
EGPRS850	190	VL	NT	11.84	0.014153	±2.5	PASS
EGPRS850	190	VN	NT	10.85	0.012969	±2.5	PASS
EGPRS850	190	VH	NT	10.54	0.012599	±2.5	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	16.24	0.008638	PASS
GSM1900	661	VN	NT	15.49	0.008239	PASS
GSM1900	661	VH	NT	16.34	0.008691	PASS
EGPRS1900	661	VL	NT	16.37	0.008707	PASS
EGPRS1900	661	VN	NT	13.71	0.007293	PASS
EGPRS1900	661	VH	NT	13.91	0.007399	PASS



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000  
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号厂房南面 邮编: 215000

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

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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	28.68	0.034282	±2.5	PASS
GSM850	190	NV	-20	27.23	0.032548	±2.5	PASS
GSM850	190	NV	-10	25.91	0.030971	±2.5	PASS
GSM850	190	NV	0	28.77	0.034389	±2.5	PASS
GSM850	190	NV	10	24.34	0.029094	±2.5	PASS
GSM850	190	NV	20	27.64	0.033038	±2.5	PASS
GSM850	190	NV	30	28.91	0.034557	±2.5	PASS
GSM850	190	NV	40	27.61	0.033003	±2.5	PASS
GSM850	190	NV	50	30.11	0.035991	±2.5	PASS
EGPRS850	190	NV	-30	16.94	0.020249	±2.5	PASS
EGPRS850	190	NV	-20	10.72	0.012814	±2.5	PASS
EGPRS850	190	NV	-10	6.72	0.008033	±2.5	PASS
EGPRS850	190	NV	0	4.62	0.005522	±2.5	PASS
EGPRS850	190	NV	10	8.87	0.010602	±2.5	PASS
EGPRS850	190	NV	20	11.31	0.013519	±2.5	PASS
EGPRS850	190	NV	30	11.56	0.013818	±2.5	PASS
EGPRS850	190	NV	40	14.21	0.016985	±2.5	PASS
EGPRS850	190	NV	50	11.78	0.014081	±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号厂房南面 邮编: 215000

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

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Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	20.98	0.011160	PASS
GSM1900	661	NV	-20	15.84	0.008426	PASS
GSM1900	661	NV	-10	15.10	0.008032	PASS
GSM1900	661	NV	0	13.19	0.007016	PASS
GSM1900	661	NV	10	14.36	0.007638	PASS
GSM1900	661	NV	20	8.07	0.004293	PASS
GSM1900	661	NV	30	16.32	0.008681	PASS
GSM1900	661	NV	40	15.46	0.008223	PASS
GSM1900	661	NV	50	18.22	0.009691	PASS
EGPRS1900	661	NV	-30	17.12	0.009106	PASS
EGPRS1900	661	NV	-20	16.36	0.008702	PASS
EGPRS1900	661	NV	-10	16.00	0.008511	PASS
EGPRS1900	661	NV	0	18.97	0.010090	PASS
EGPRS1900	661	NV	10	16.16	0.008596	PASS
EGPRS1900	661	NV	20	19.63	0.010441	PASS
EGPRS1900	661	NV	30	14.99	0.007973	PASS
EGPRS1900	661	NV	40	17.55	0.009335	PASS
EGPRS1900	661	NV	50	20.07	0.010676	PASS

The End



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

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