



Report No.: ZEWM2303000343RG02  
Rev.: 01  
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# Appendix B.1

## GSM850&1900



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

#### Ant13:

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	33.21	26.76	38.45	PASS
GSM850	190	33.29	26.84	38.45	PASS
GSM850	251	33.25	26.80	38.45	PASS
Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	29.78	29.68	33.00	PASS
GSM1900	661	29.97	29.87	33.00	PASS
GSM1900	810	29.75	29.65	33.00	PASS



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Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	27.00	20.55	38.45	PASS
EGPRS850	128	2	25.43	18.98	38.45	PASS
EGPRS850	128	3	23.35	16.90	38.45	PASS
EGPRS850	128	4	21.76	15.31	38.45	PASS
EGPRS850	190	1	27.07	20.62	38.45	PASS
EGPRS850	190	2	25.47	19.02	38.45	PASS
EGPRS850	190	3	23.39	16.94	38.45	PASS
EGPRS850	190	4	21.78	15.33	38.45	PASS
EGPRS850	251	1	26.98	20.53	38.45	PASS
EGPRS850	251	2	25.39	18.94	38.45	PASS
EGPRS850	251	3	23.26	16.81	38.45	PASS
EGPRS850	251	4	21.71	15.26	38.45	PASS
Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	25.34	25.24	33.00	PASS
EGPRS1900	512	2	23.77	23.67	33.00	PASS
EGPRS1900	512	3	21.63	21.53	33.00	PASS
EGPRS1900	512	4	19.96	19.86	33.00	PASS
EGPRS1900	661	1	25.28	25.18	33.00	PASS
EGPRS1900	661	2	23.70	23.60	33.00	PASS
EGPRS1900	661	3	21.58	21.48	33.00	PASS
EGPRS1900	661	4	19.98	19.88	33.00	PASS
EGPRS1900	810	1	25.37	25.27	33.00	PASS
EGPRS1900	810	2	23.71	23.61	33.00	PASS
EGPRS1900	810	3	21.64	21.54	33.00	PASS
EGPRS1900	810	4	19.90	19.80	33.00	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.28	13	PASS
GSM850	190	9.33	13	PASS
GSM850	251	9.88	13	PASS
GSM1900	512	10.06	13	PASS
GSM1900	661	10.06	13	PASS
GSM1900	810	9.28	13	PASS
EGPRS850	128	12.43	13	PASS
EGPRS850	190	11.97	13	PASS
EGPRS850	251	12.81	13	PASS
EGPRS1900	512	11.97	13	PASS
EGPRS1900	661	12.58	13	PASS
EGPRS1900	810	12	13	PASS



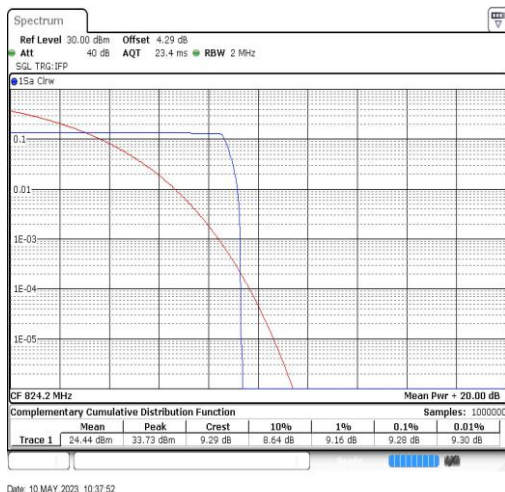
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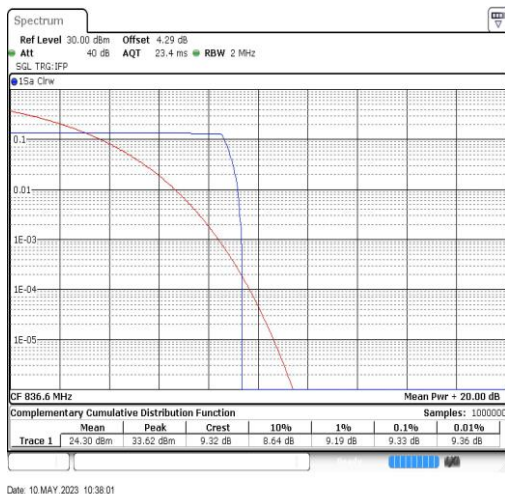
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### Test Graphs

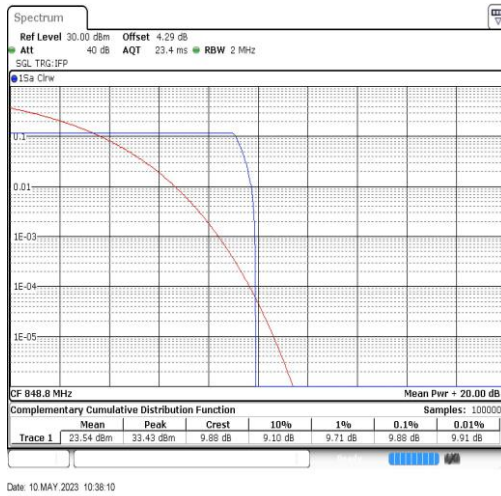


GSM850-128-5

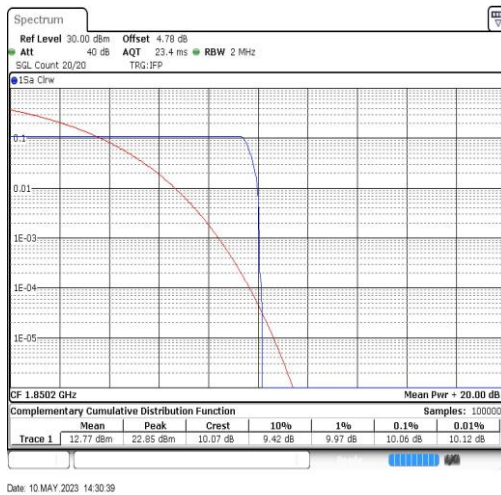


GSM850-190-5





GSM850-251-5



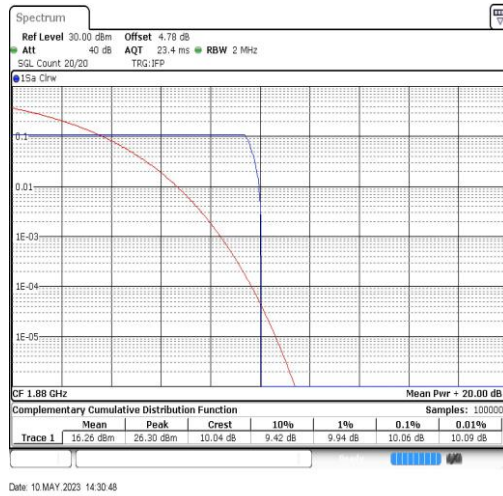
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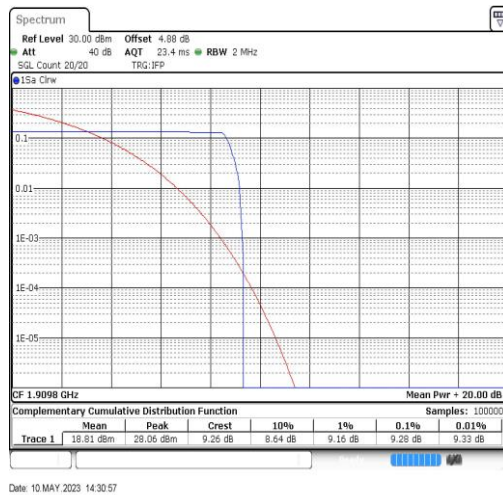
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GSM1900-661-0



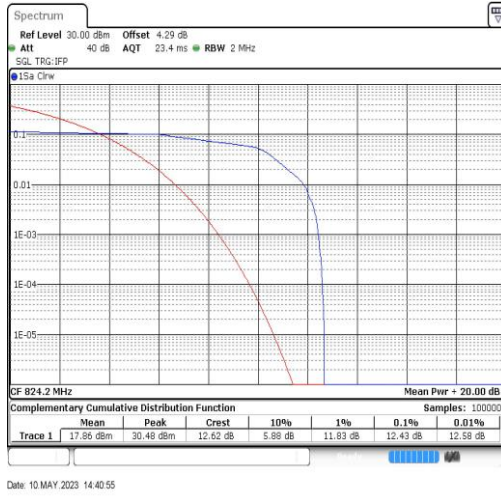
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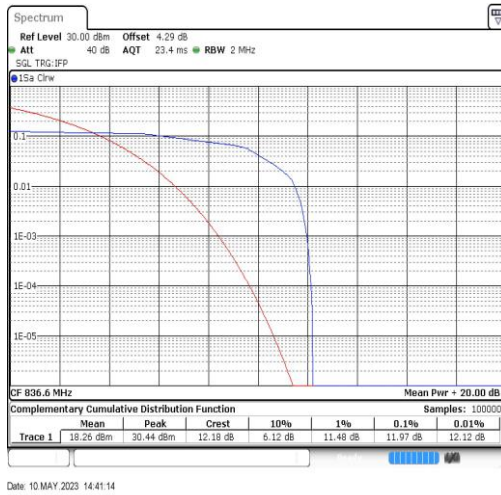
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EGPRS850-128-8



EGPRS850-190-8

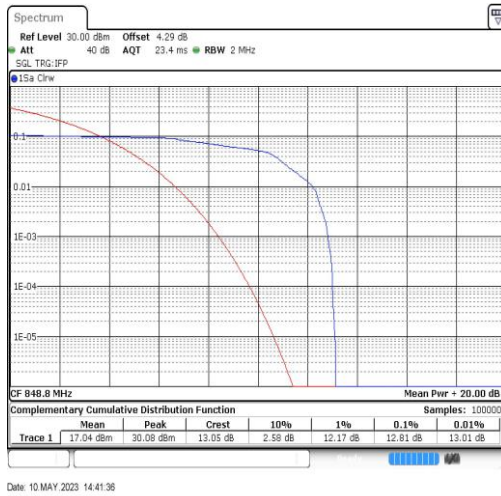


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EGPRS850-251-8



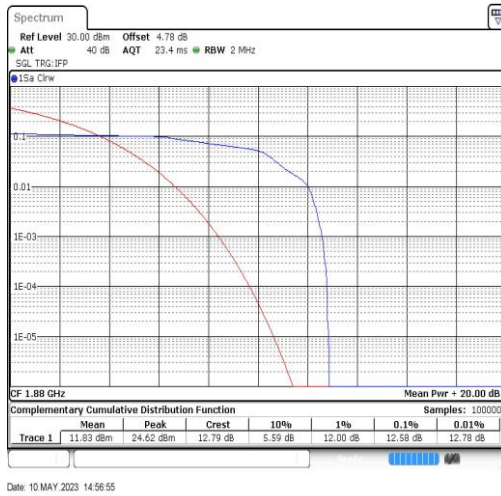
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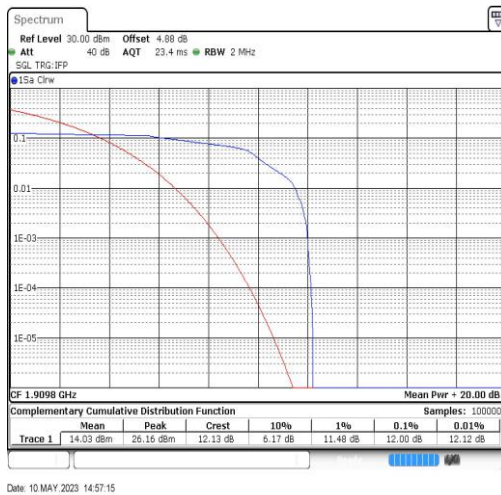
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EGPRS1900-661-2



EGPRS1900-810-2



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## Modulation Characteristics

### Test Result

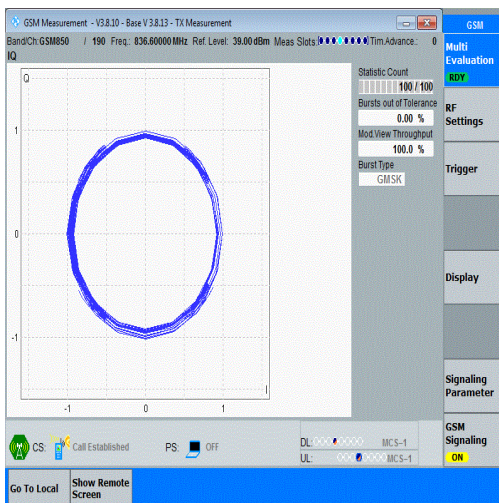
Band	Channel	Result	Verdict
GSM850	190	PASS	PASS
GSM1900	661	PASS	PASS
EGPRS850	190	PASS	PASS
EGPRS1900	661	PASS	PASS



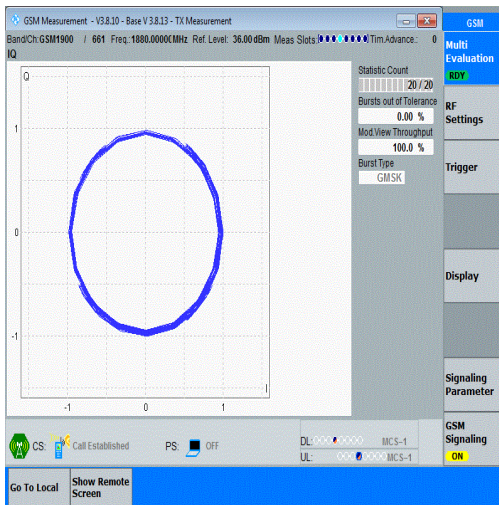
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### Test Graphs



GSM850-190-5



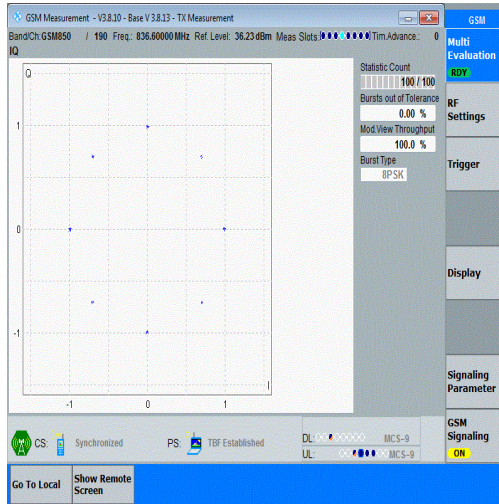
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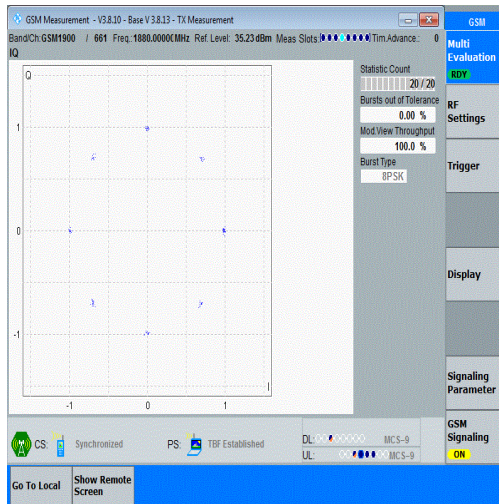
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EGPRS850-190-8



EGPRS1900-661-2



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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	0.245	0.32	---	PASS
GSM850	251	0.243	0.32	---	PASS
GSM1900	512	0.243	0.32	---	PASS
GSM1900	661	0.243	0.32	---	PASS
GSM1900	810	0.241	0.32	---	PASS
EGPRS850	128	0.243	0.31	---	PASS
EGPRS850	190	0.244	0.31	---	PASS
EGPRS850	251	0.246	0.31	---	PASS
EGPRS1900	512	0.241	0.31	---	PASS
EGPRS1900	661	0.241	0.31	---	PASS
EGPRS1900	810	0.244	0.31	---	PASS

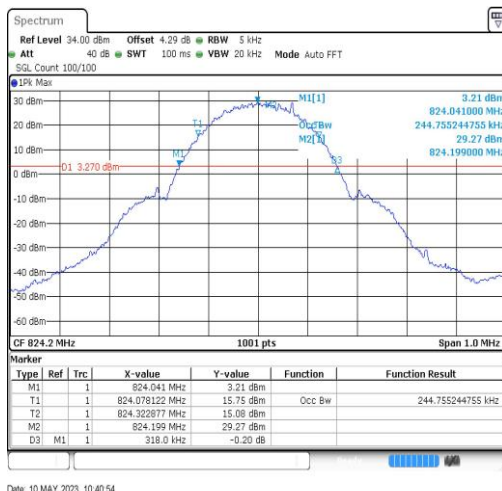


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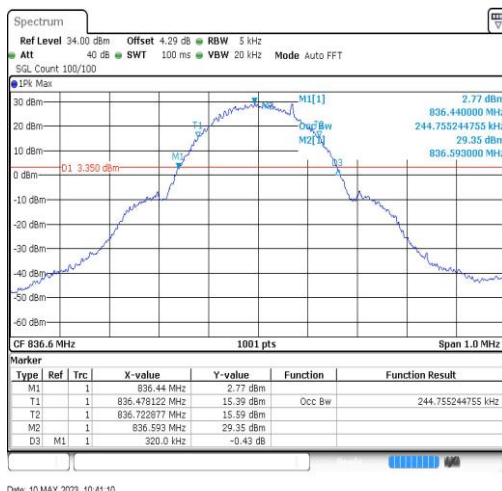
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**Test Graphs**



**GSM850-128-5**



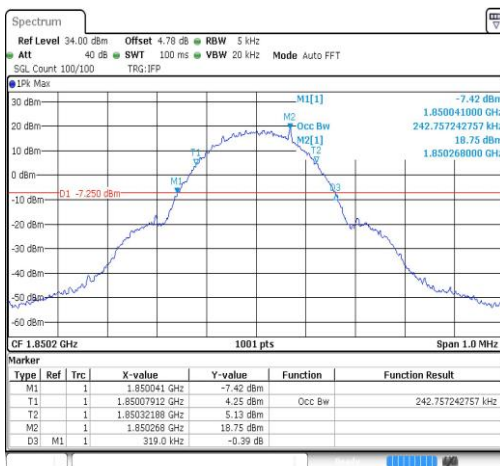
**GSM850-190-5**





Date: 10 MAY 2023 10:41:27

### GSM850-251-5



Date: 10 MAY 2023 14:31:14

### GSM1900-512-0

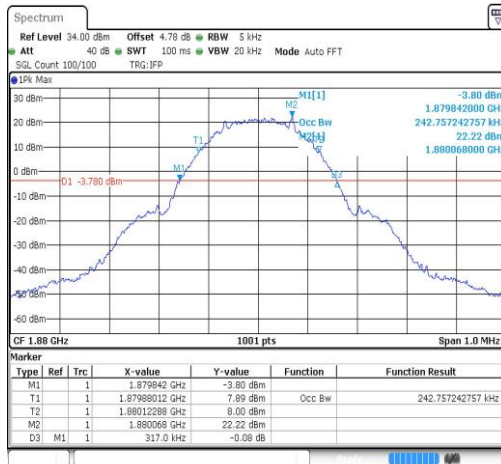


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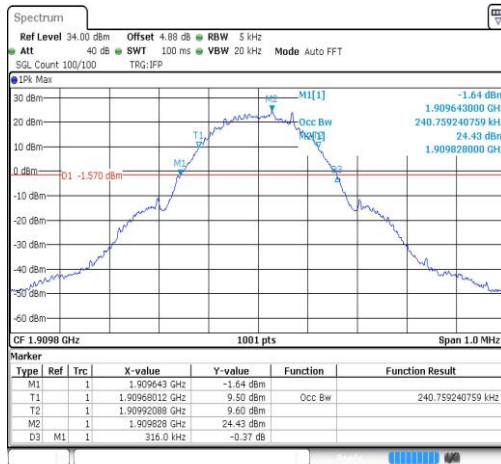
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Date: 10 MAY 2023 14:31:31

### GSM1900-661-0



Date: 10 MAY 2023 14:31:47

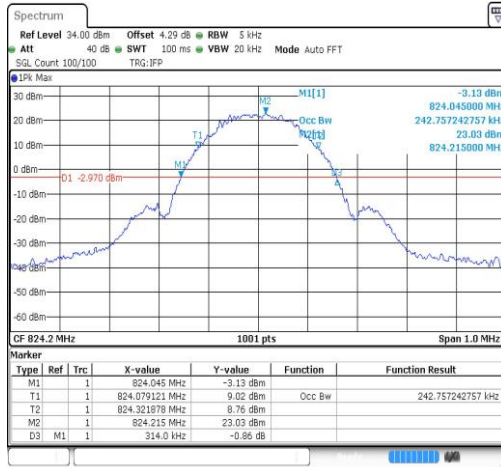
### GSM1900-810-0



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### EGPRS850-128-8



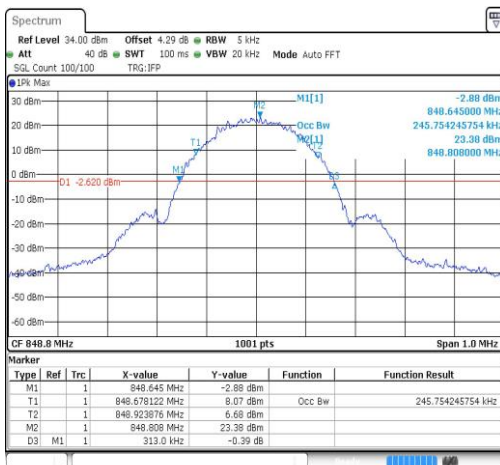
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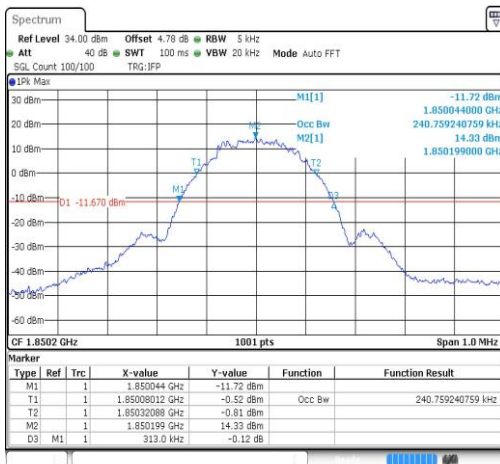
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Date: 10 MAY 2023 14:43:01

### EGPRS850-251-8



Date: 10 MAY 2023 14:47:25

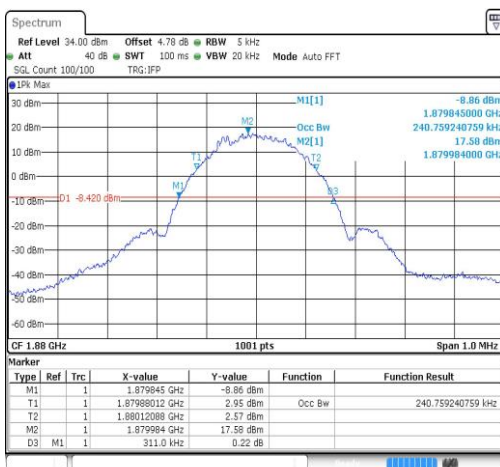
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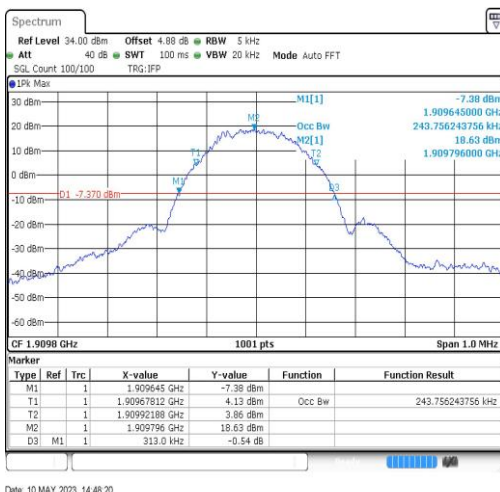
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EGPRS1900-661-2



EGPRS1900-810-2



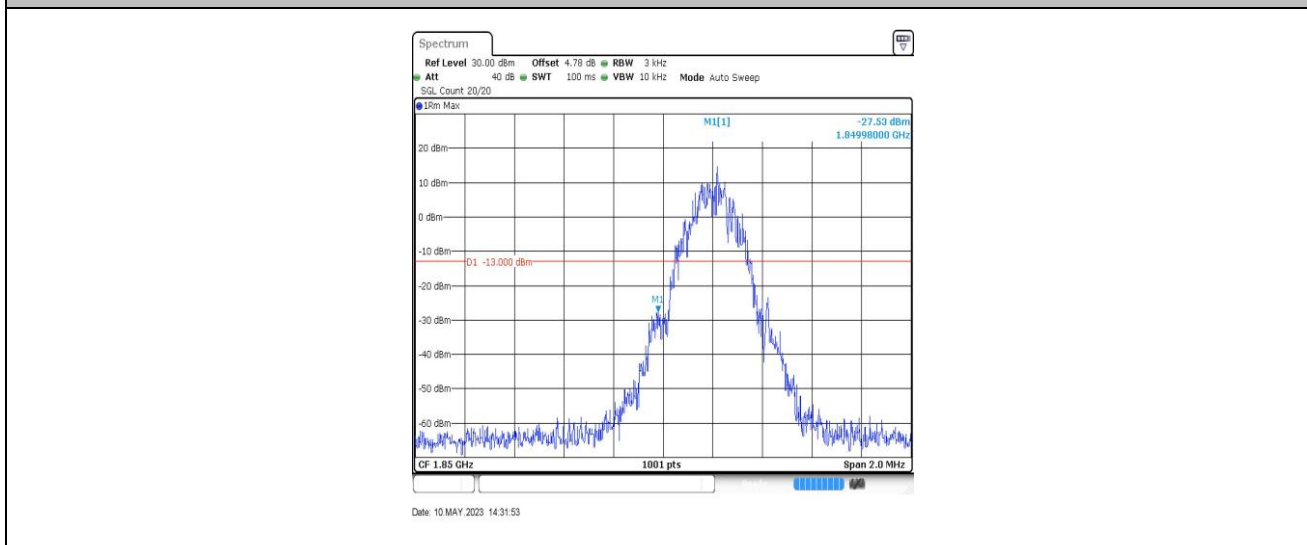
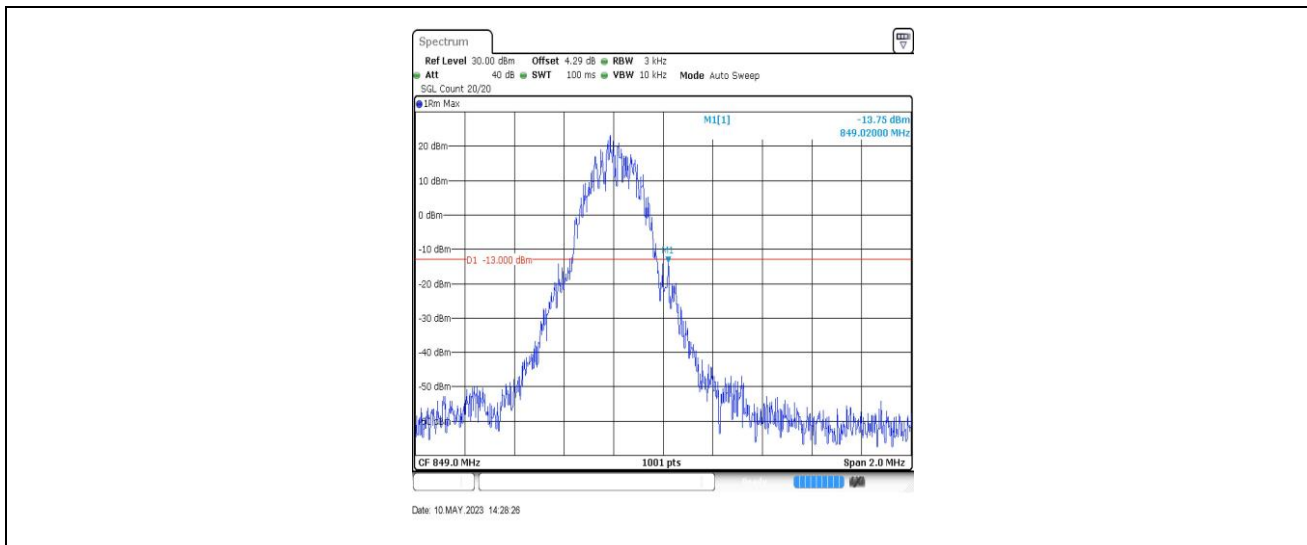
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### Band Edge

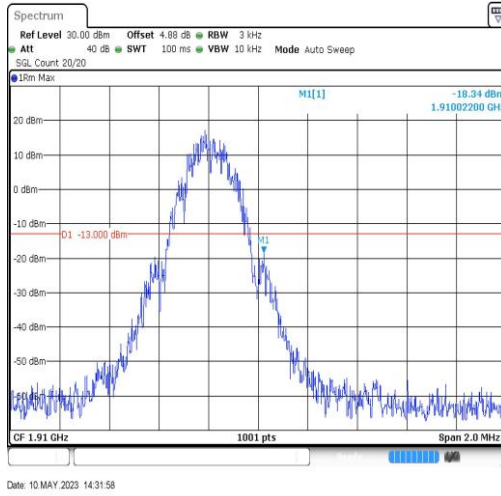
### Test Graphs



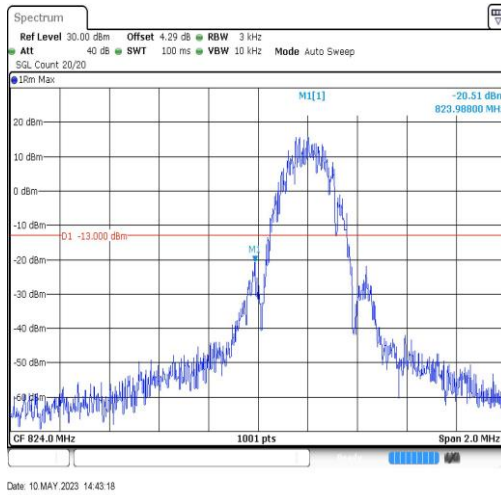
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GSM1900-810-0-1910.02



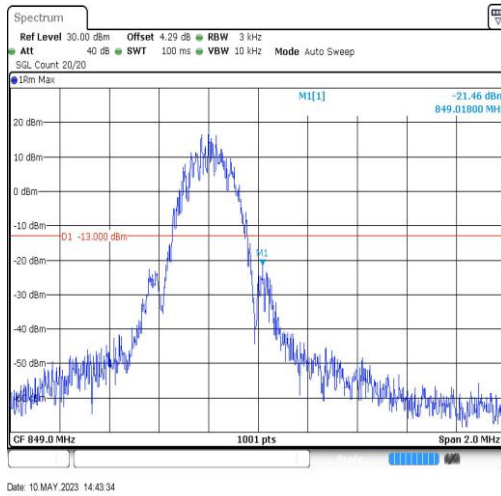
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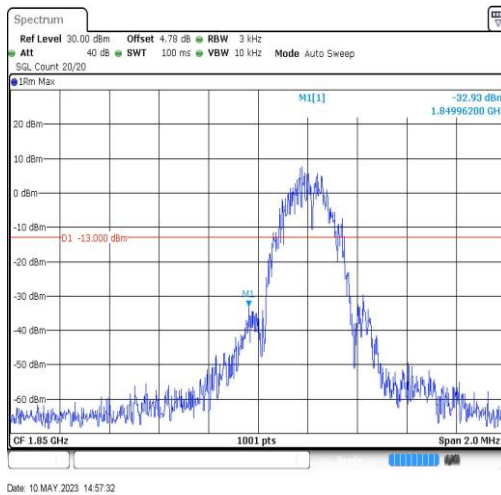
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EGPRS850-251-8-849.02



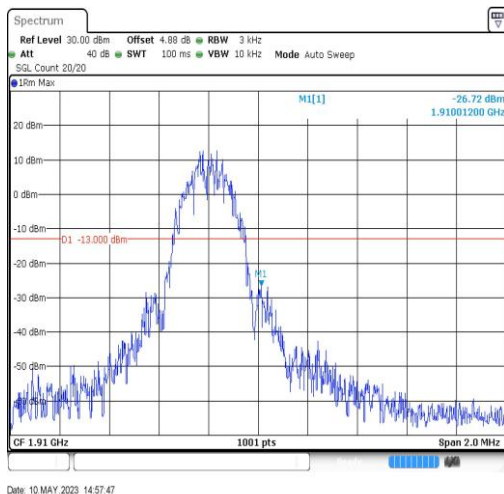
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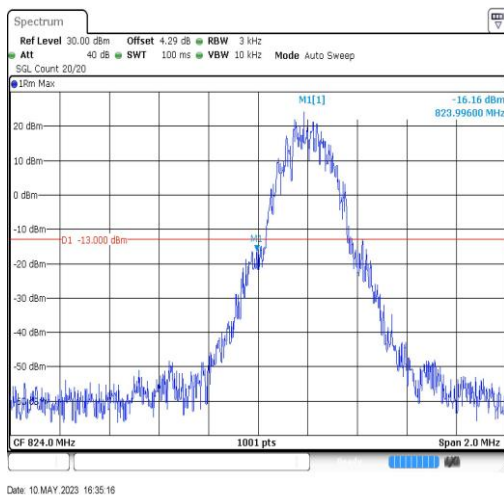
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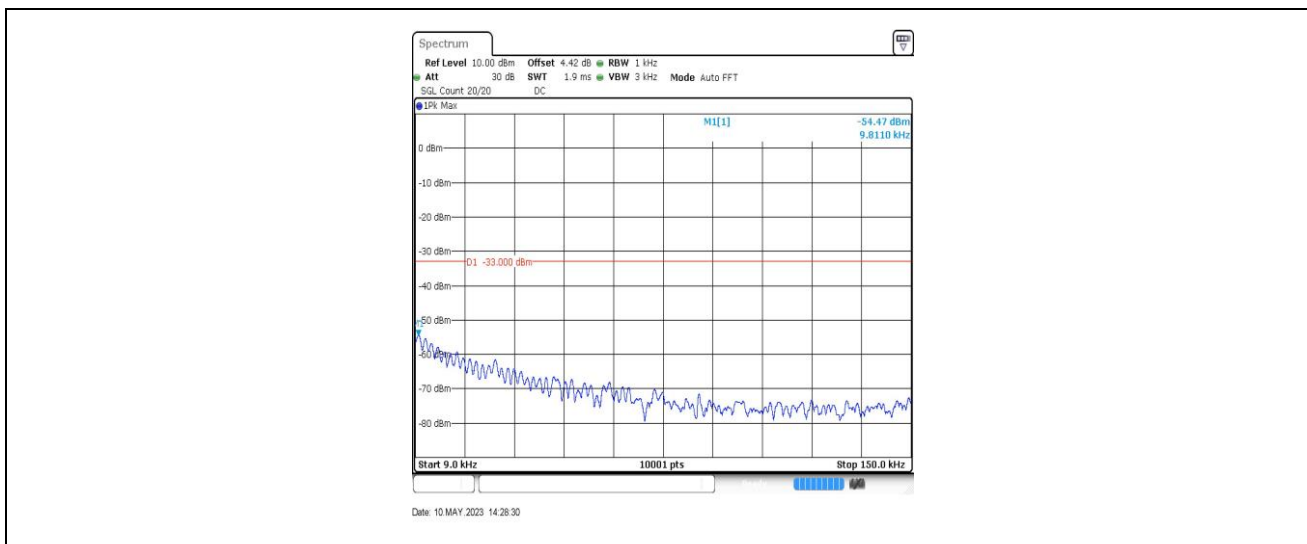
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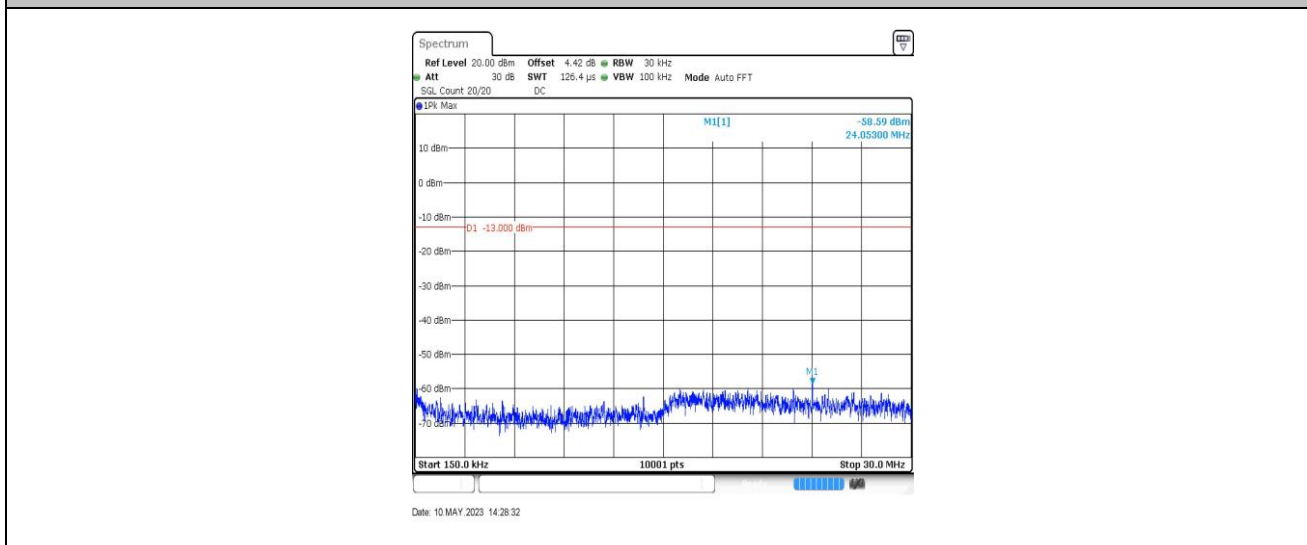


## Conducted Spurious Emission

### Test Graphs



GSM850-128-5-0.009~0.15MHz-0.01



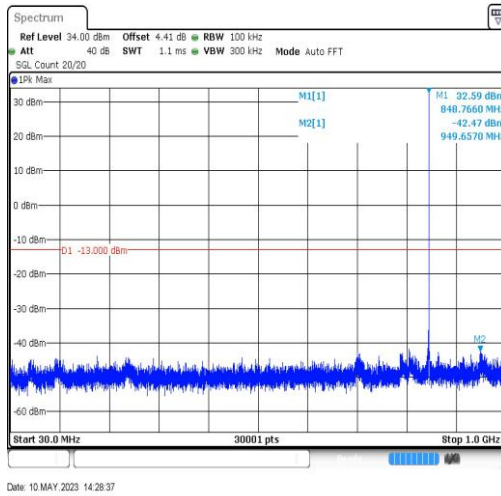
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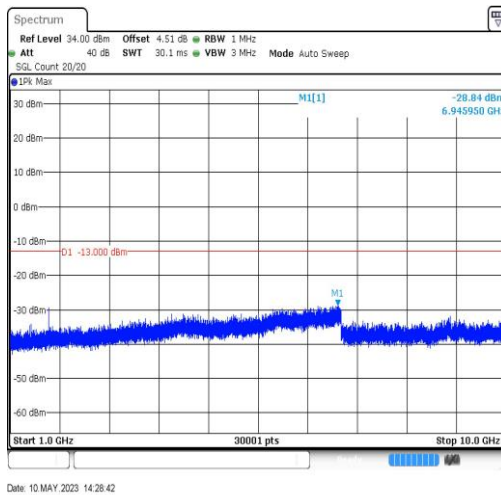
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GSM850-128-5-30~1000MHz-949.66



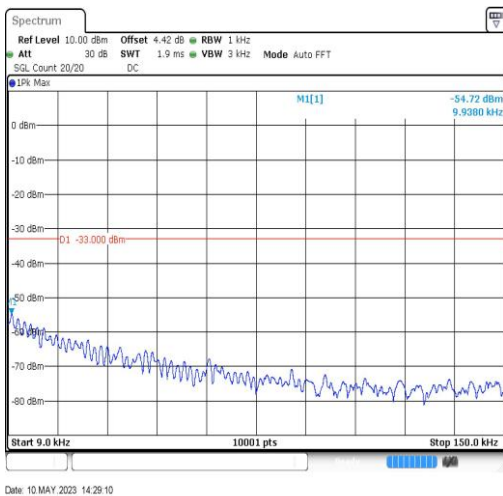
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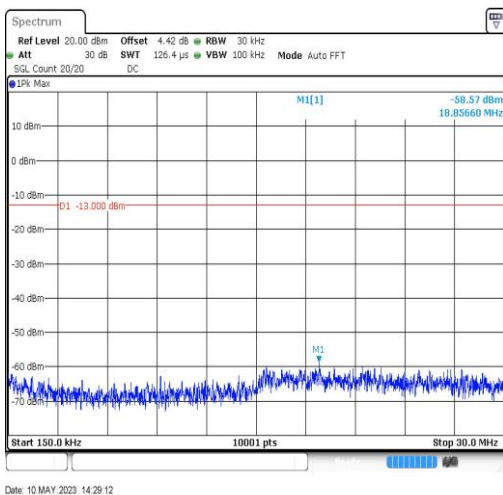
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GSM850-190-5-0.009~0.15MHz-0.01



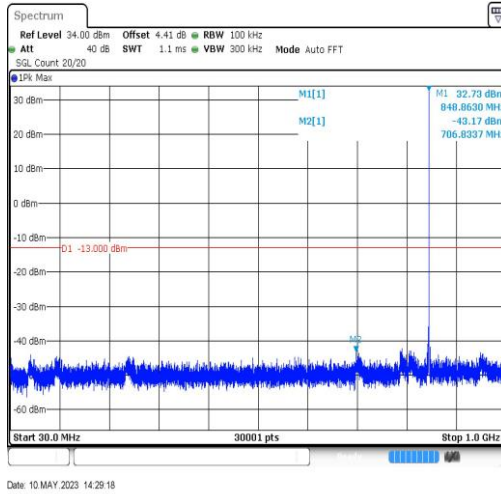
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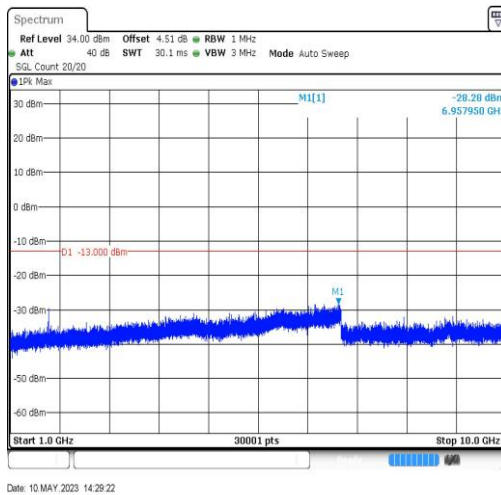
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GSM850-190-5-30~1000MHz-706.83



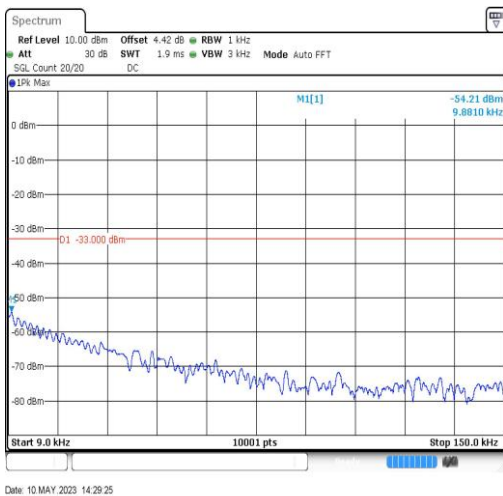
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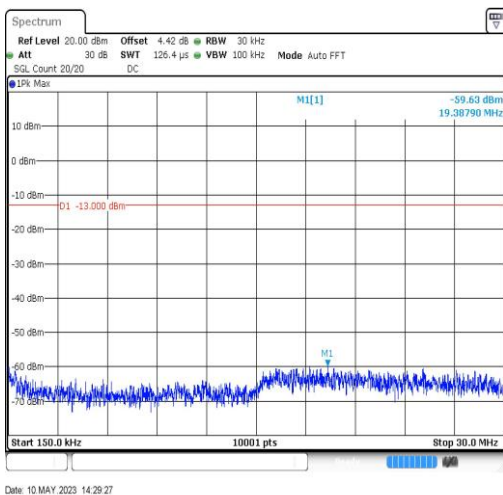
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GSM850-251-5-0.009~0.15MHz-0.01



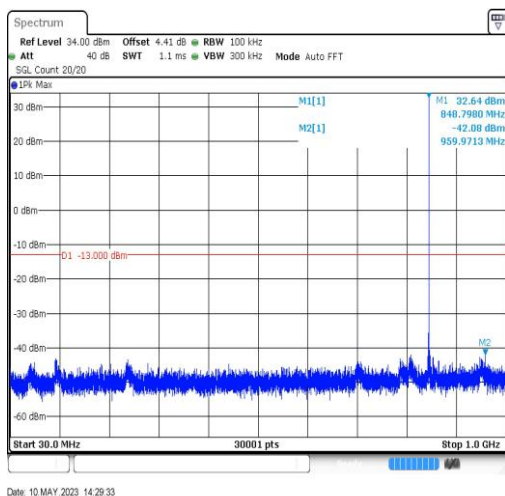
GSM850-251-5-0.15~30MHz-19.39



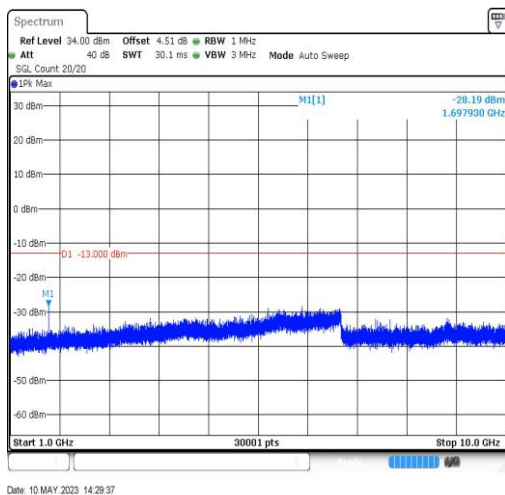
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GSM850-251-5-30~1000MHz-959.97



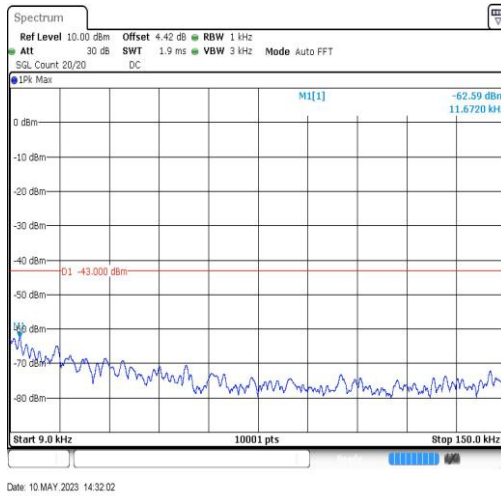
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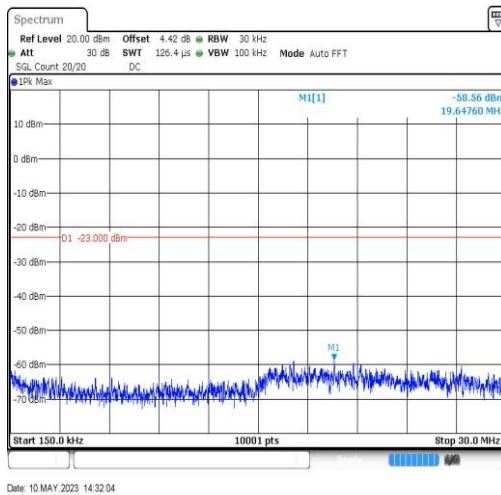
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GSM1900-512-0-0.009~0.15MHz-0.01



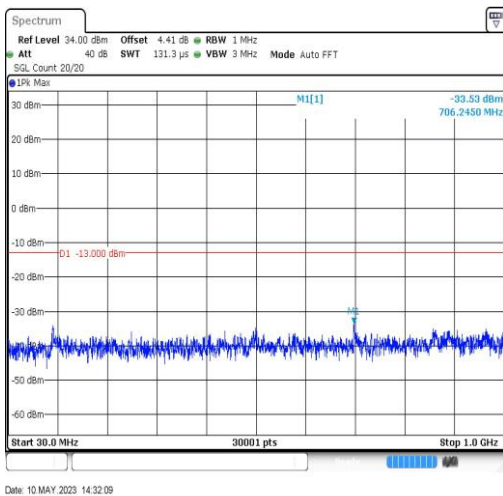
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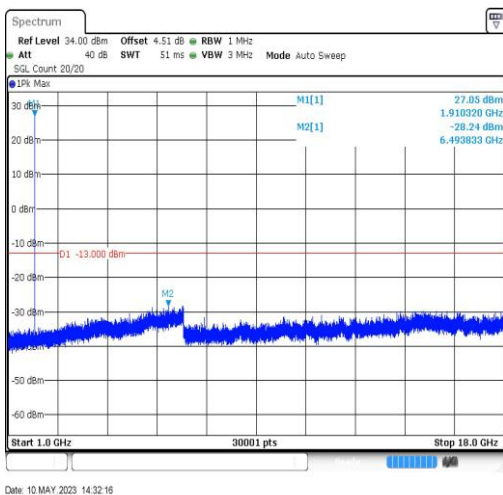
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GSM1900-512-0-30~1000MHz-706.25



GSM1900-512-0-1000~18000MHz-6493.83

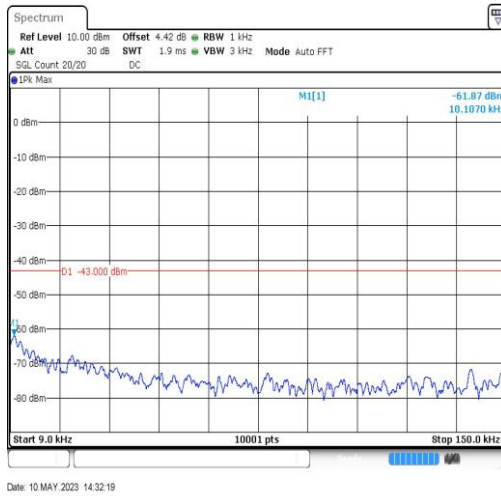


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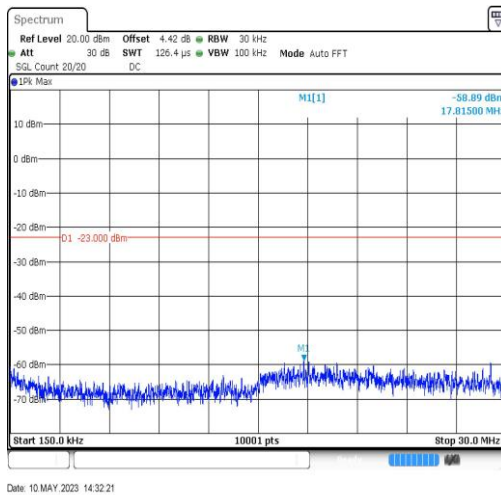
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GSM1900-661-0-0.009~0.15MHz-0.01



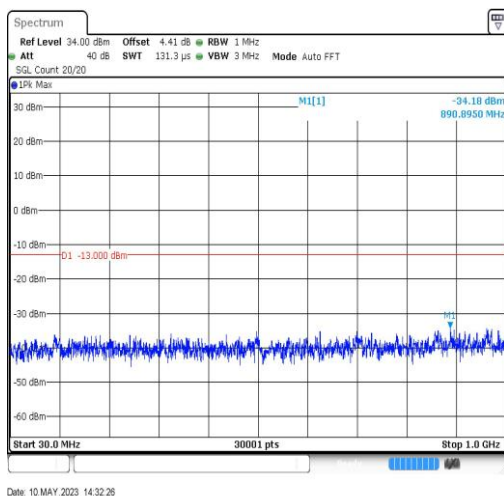
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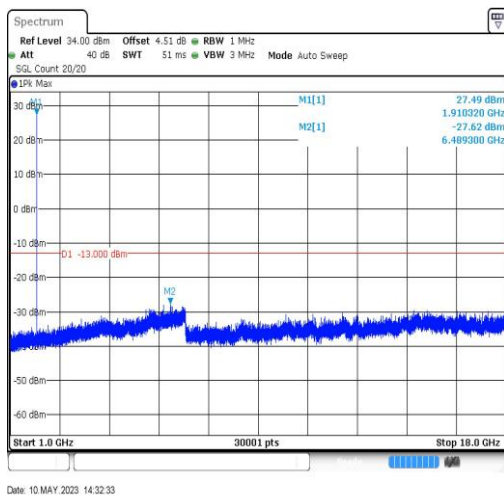
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GSM1900-661-0-30~1000MHz-890.9



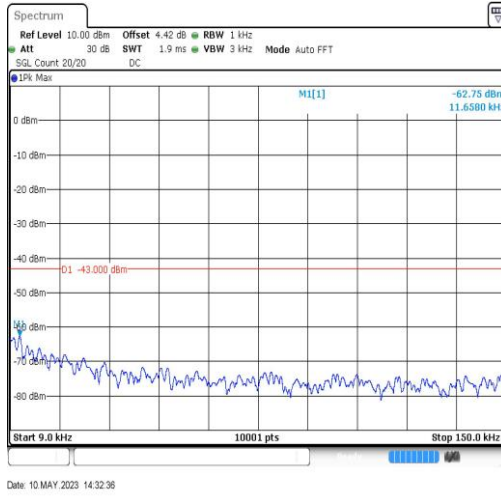
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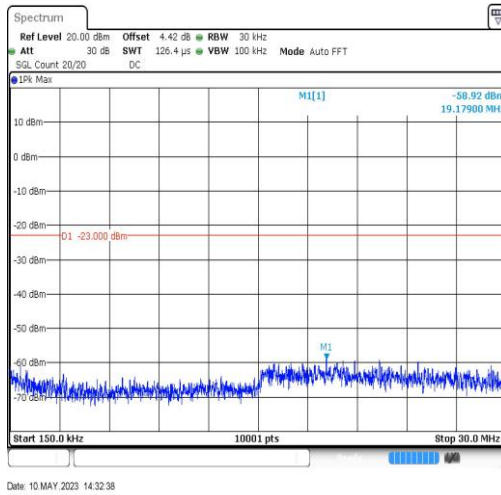
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GSM1900-810-0-0.009~0.15MHz-0.01



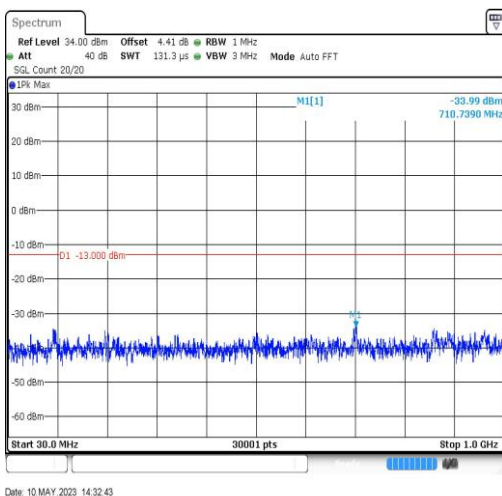
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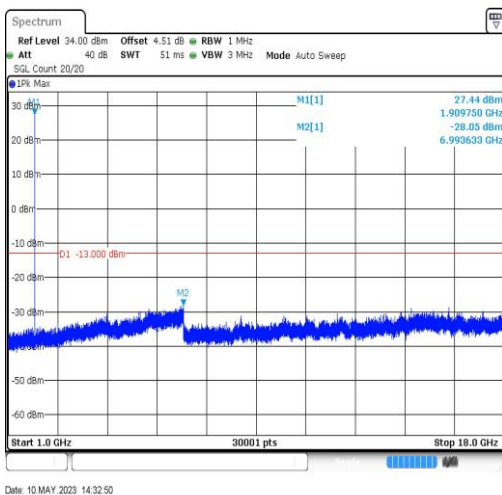
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GSM1900-810-0-30~1000MHz-710.74



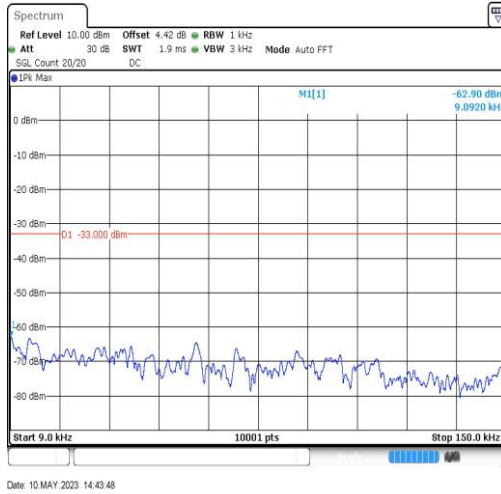
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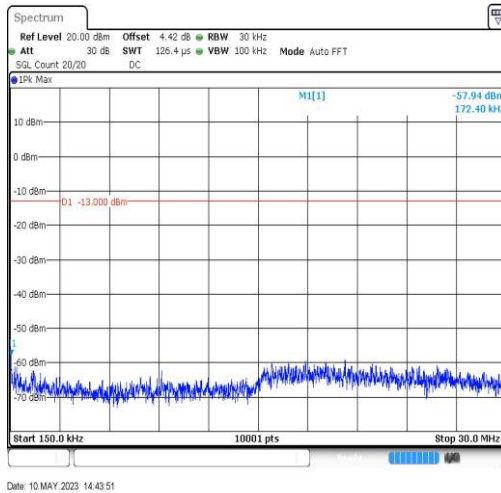
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EGPRS850-128-8-0.009~0.15MHz-0.01



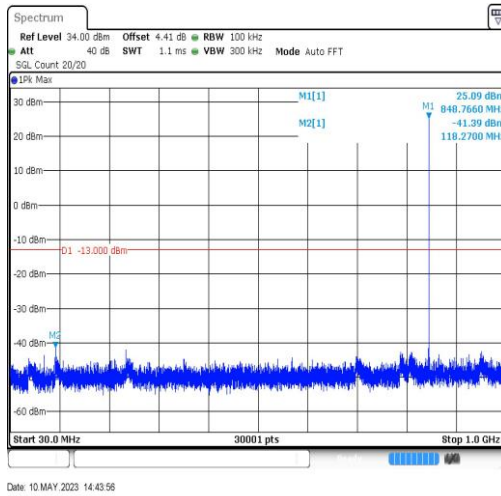
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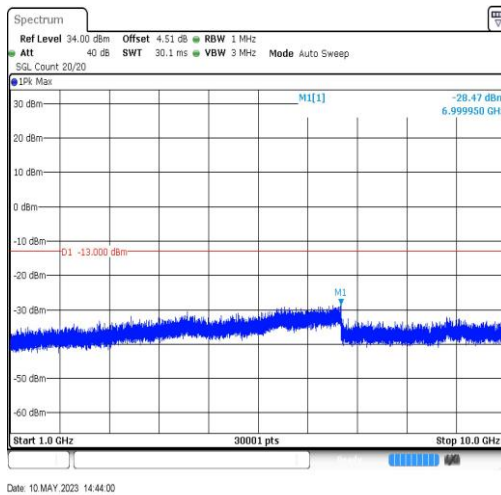
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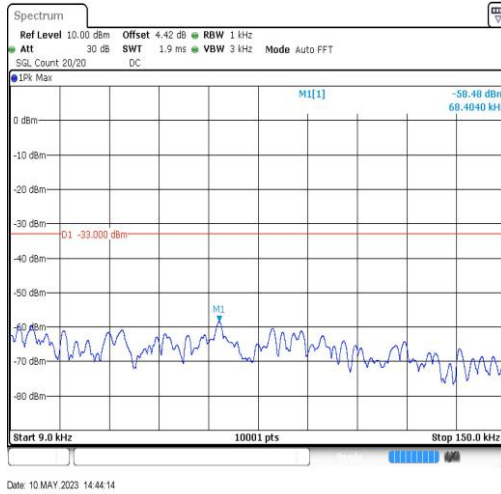
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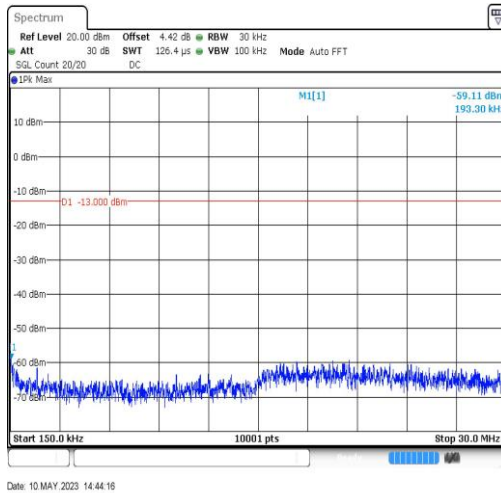
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EGPRS850-190-8-0.009~0.15MHz-0.07



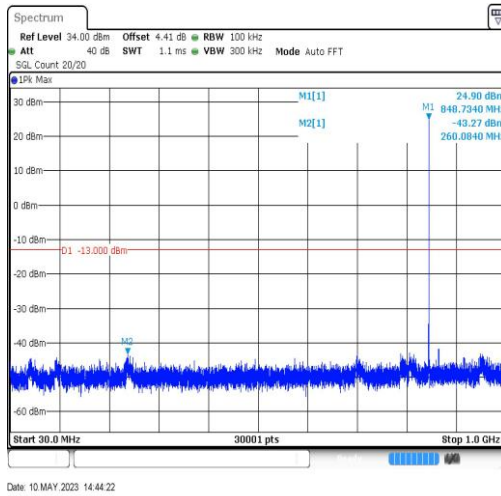
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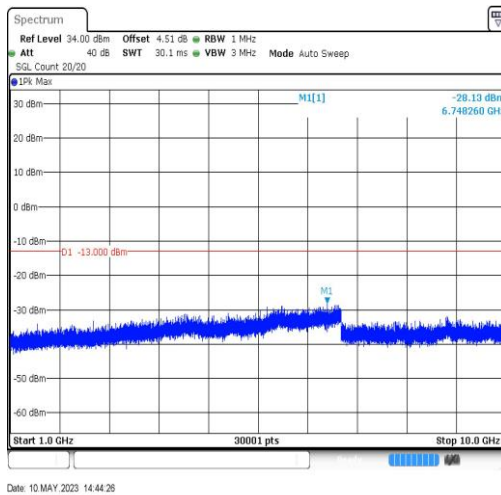
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EGPRS850-190-8-30~1000MHz-260.08



EGPRS850-190-8-1000~10000MHz-6748.26

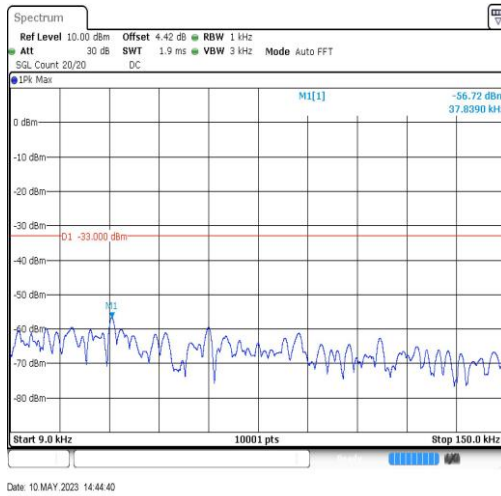


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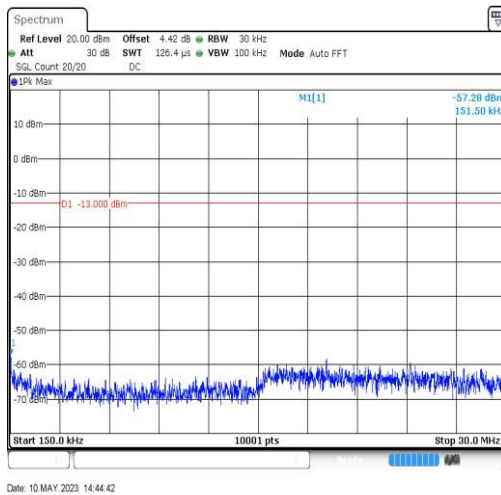
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EGPRS850-251-8-0.009~0.15MHz-0.04



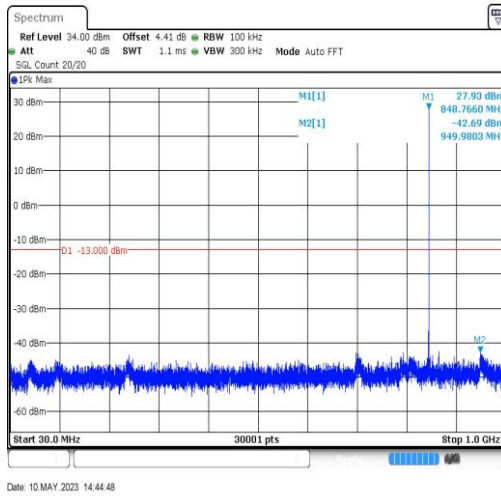
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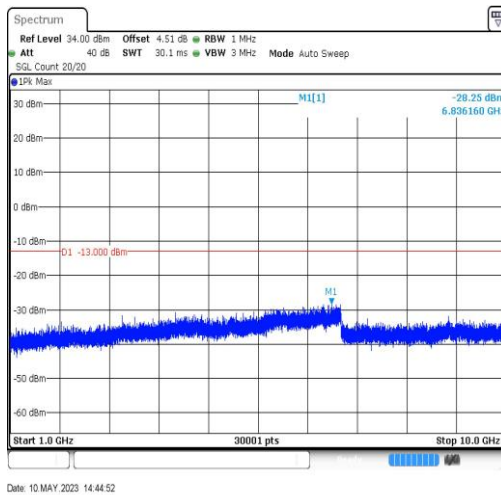
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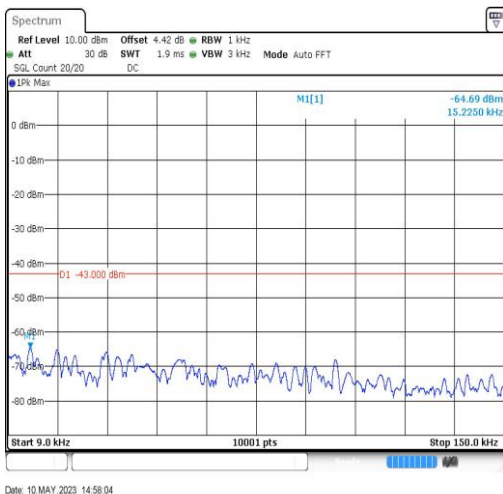
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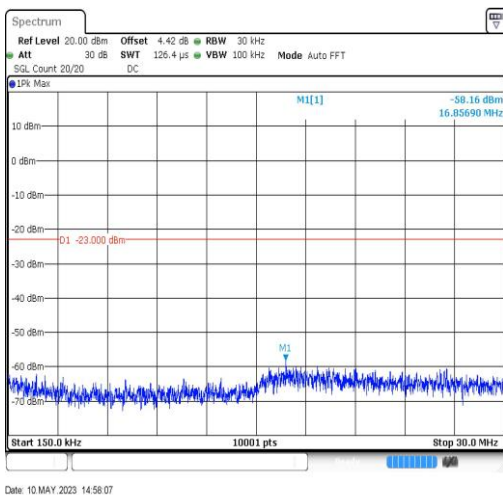
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EGPRS1900-512-2-0.009~0.15MHz-0.02



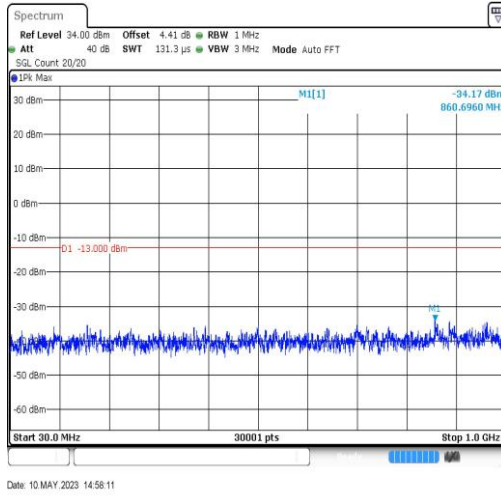
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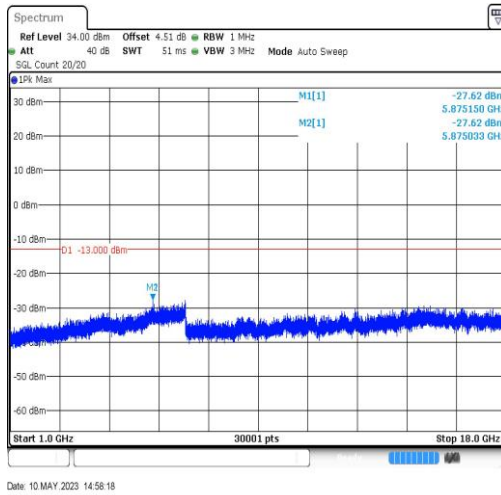
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EGPRS1900-512-2-30~1000MHz-860.7



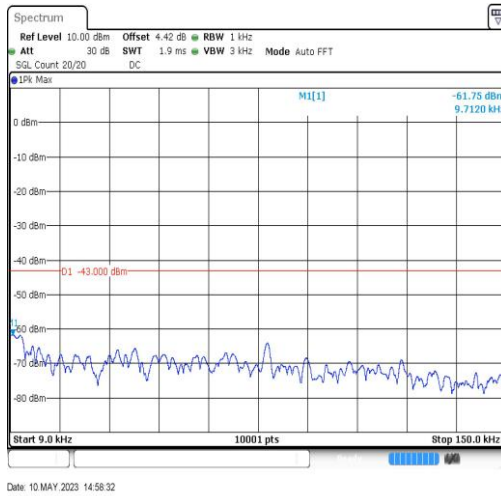
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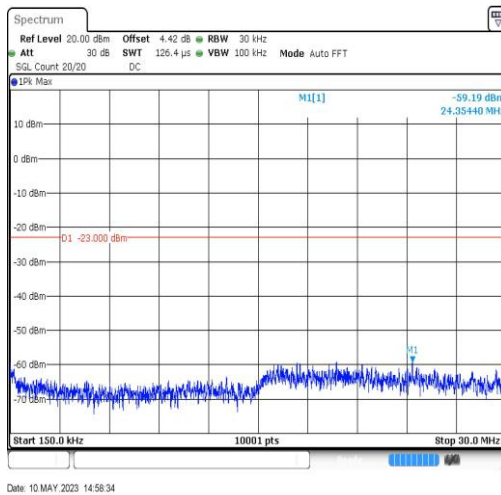
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EGPRS1900-661-2-0.009~0.15MHz-0.01



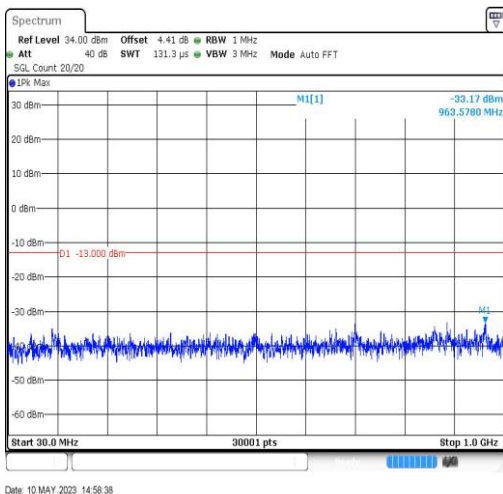
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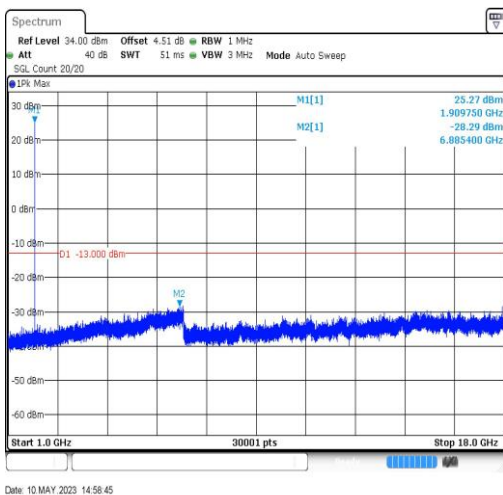
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EGPRS1900-661-2-30~1000MHz-963.58



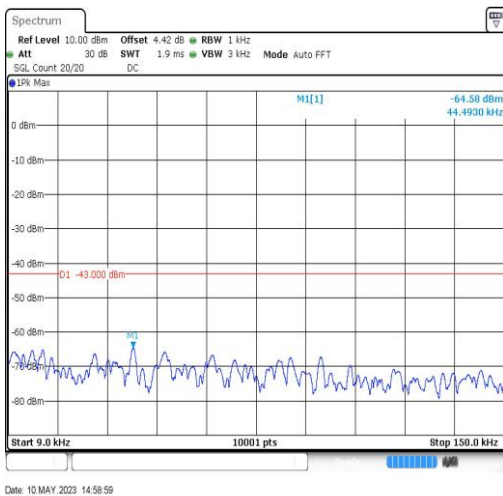
EGPRS1900-661-2-1000~18000MHz-6885.4



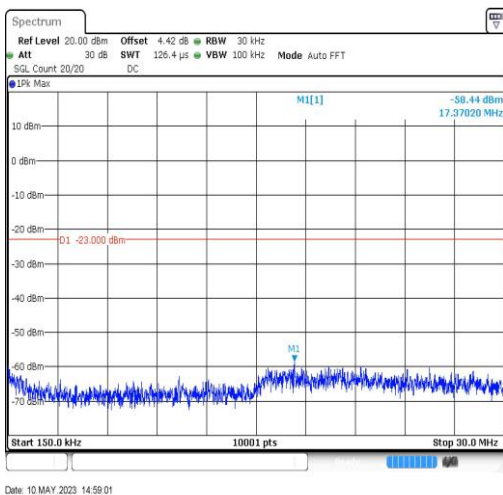
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EGPRS1900-810-2-0.009~0.15MHz-0.04



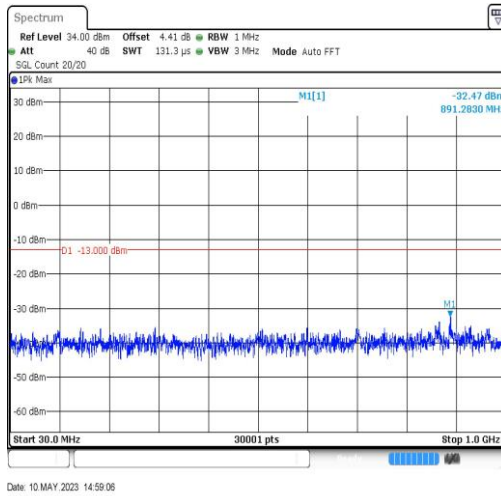
EGPRS1900-810-2-0.15~30MHz-17.37



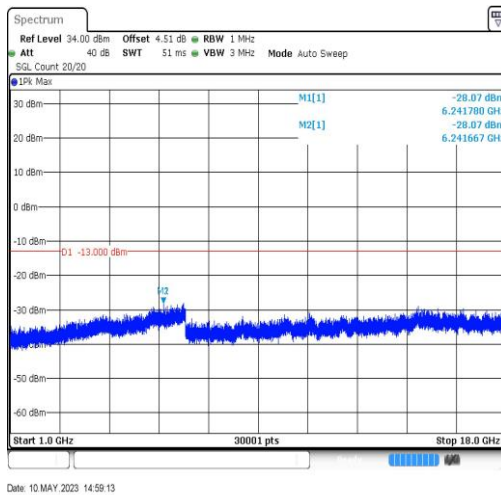
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EGPRS1900-810-2-30~1000MHz-891.28



EGPRS1900-810-2-1000~1800MHz-6241.67



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## Field Strength of Spurious Radiation

Test Band = GSM\_1900-ANT 13

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3700.535	55.72	-44.51	29.30	-54.75	-13.00	41.75	324	130	Horizontal
2	5689.6345	51.95	-41.17	32.50	-51.98	-13.00	38.98	215	171	Horizontal
3	7401.9701	51.12	-38.28	36.70	-45.72	-13.00	32.72	391	352	Horizontal
4	9439.072	51.98	-35.63	37.46	-41.45	-13.00	28.45	287	146	Horizontal
5	11086.1543	51.43	-37.51	40.19	-41.15	-13.00	28.15	389	219	Horizontal
6	15202.3601	54.33	-35.31	39.70	-36.54	-13.00	23.54	291	211	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3700.535	52.73	-44.51	29.30	-57.74	-13.00	44.74	167	118	Vertical
2	5907.1454	51.74	-41.12	32.81	-51.83	-13.00	38.83	252	94	Vertical
3	7880.494	50.40	-37.56	36.62	-45.80	-13.00	32.80	371	170	Vertical
4	9435.3218	52.39	-35.60	37.44	-41.03	-13.00	28.03	221	98	Vertical
5	11002.9001	50.82	-37.00	40.10	-41.34	-13.00	28.34	159	114	Vertical
6	15211.3606	54.48	-35.39	39.72	-36.45	-13.00	23.45	333	158	Vertical



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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 50 of 62

**Test Band = GSM\_1900-ANT 13**

**Test Channel = MCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3759.788	52.05	-44.76	29.64	-58.33	-13.00	45.33	116	135	Horizontal
2	5629.6315	52.17	-41.35	32.54	-51.90	-13.00	38.90	180	323	Horizontal
3	7689.9845	50.65	-37.69	36.76	-45.54	-13.00	32.54	375	179	Horizontal
4	9462.3231	51.94	-35.77	37.57	-41.52	-13.00	28.52	336	6	Horizontal
5	11035.9018	51.15	-37.20	40.14	-41.17	-13.00	28.17	194	118	Horizontal
6	15191.8596	54.53	-35.61	39.75	-36.59	-13.00	23.59	325	267	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3759.788	52.36	-44.76	29.64	-58.02	-13.00	45.02	336	147	Vertical
2	5875.6438	51.65	-41.19	32.70	-52.10	-13.00	39.10	306	207	Vertical
3	7496.4748	50.94	-38.29	36.89	-45.72	-13.00	32.72	151	90	Vertical
4	9448.8224	51.79	-35.69	37.50	-41.66	-13.00	28.66	146	155	Vertical
5	11020.901	50.91	-37.11	40.12	-41.34	-13.00	28.34	194	155	Vertical
6	15179.109	55.10	-36.11	39.83	-36.44	-13.00	23.44	156	2	Vertical



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**Test Band = GSM\_1900-ANT 13**

**Test Channel = HCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3819.791	53.32	-44.79	29.76	-56.97	-13.00	43.97	299	149	Horizontal
2	5911.6456	51.78	-41.13	32.82	-51.79	-13.00	38.79	177	310	Horizontal
3	7695.9848	50.61	-37.61	36.78	-45.48	-13.00	32.48	258	118	Horizontal
4	9466.0733	51.87	-35.80	37.60	-41.59	-13.00	28.59	203	354	Horizontal
5	11066.6533	51.41	-37.39	40.17	-41.07	-13.00	28.07	298	166	Horizontal
6	16577.1789	54.79	-35.40	39.45	-36.42	-13.00	23.42	242	98	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3819.791	53.70	-44.79	29.76	-56.59	-13.00	43.59	289	138	Vertical
2	6090.1545	51.47	-40.61	33.42	-50.98	-13.00	37.98	319	239	Vertical
3	7844.4922	50.62	-37.71	36.78	-45.57	-13.00	32.57	170	127	Vertical
4	9467.5734	51.84	-35.81	37.61	-41.62	-13.00	28.62	382	259	Vertical
5	11013.4007	51.29	-37.06	40.11	-40.92	-13.00	27.92	378	179	Vertical
6	15207.6104	54.85	-35.36	39.72	-36.05	-13.00	23.05	164	131	Vertical



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**Test Band = GSM\_850-ANT 13**

**Test Channel = LCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1648.5811	58.84	-47.52	25.49	-58.45	-13.00	45.45	277	192	Horizontal
2	2472.6841	66.14	-46.67	27.69	-48.10	-13.00	35.10	319	74	Horizontal
3	3296.8148	48.55	-45.32	28.51	-63.52	-13.00	50.52	168	189	Horizontal
4	5132.6566	47.59	-42.53	31.70	-58.50	-13.00	45.50	349	210	Horizontal
5	7420.371	45.18	-38.28	36.74	-51.62	-13.00	38.62	281	146	Horizontal
6	9899.545	42.90	-34.96	38.60	-48.72	-13.00	35.72	364	306	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1648.331	57.97	-47.52	25.49	-59.32	-13.00	46.32	349	149	Vertical
2	2472.9341	67.18	-46.67	27.69	-47.06	-13.00	34.06	183	156	Vertical
3	3835.8418	48.48	-44.67	29.73	-61.72	-13.00	48.72	346	311	Vertical
4	5611.4806	47.43	-41.41	32.58	-56.66	-13.00	43.66	224	193	Vertical
5	7425.2713	45.38	-38.28	36.75	-51.41	-13.00	38.41	316	183	Vertical
6	9198.1099	43.63	-36.04	37.48	-50.19	-13.00	37.19	264	22	Vertical



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**Test Band = GSM\_850-ANT 13**

**Test Channel = MCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1673.0841	66.50	-47.48	25.32	-50.92	-13.00	37.92	184	74	Horizontal
2	2509.6887	77.78	-46.64	27.80	-36.32	-13.00	23.32	169	67	Horizontal
3	4182.7091	50.57	-43.67	29.53	-58.83	-13.00	45.83	264	343	Horizontal
4	5713.3357	47.36	-41.18	32.50	-56.58	-13.00	43.58	164	274	Horizontal
5	7460.273	45.29	-38.29	36.82	-51.44	-13.00	38.44	199	87	Horizontal
6	9912.8456	43.44	-35.30	38.61	-48.51	-13.00	35.51	264	194	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1673.0841	56.46	-47.48	25.32	-60.96	-13.00	47.96	257	267	Vertical
2	2509.6887	72.70	-46.64	27.80	-41.40	-13.00	28.40	118	355	Vertical
3	4183.4092	50.79	-43.67	29.53	-58.61	-13.00	45.61	272	145	Vertical
4	5723.1362	47.14	-41.21	32.50	-56.83	-13.00	43.83	275	6	Vertical
5	7417.5709	45.17	-38.28	36.74	-51.63	-13.00	38.63	351	230	Vertical
6	9917.3959	43.31	-35.42	38.62	-48.75	-13.00	35.75	336	188	Vertical



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**Test Band = GSM\_850-ANT 13**  
**Test Channel = HCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1697.5872	64.76	-47.43	25.12	-52.81	-13.00	39.81	355	75	Horizontal
2	2546.4433	77.46	-46.45	27.80	-36.45	-13.00	23.45	171	68	Horizontal
3	3907.5954	48.68	-44.20	29.73	-61.05	-13.00	48.05	326	215	Horizontal
4	5674.4837	47.21	-41.22	32.50	-56.77	-13.00	43.77	232	33	Horizontal
5	7443.8222	45.32	-38.28	36.79	-51.43	-13.00	38.43	206	167	Horizontal
6	9885.5443	43.25	-35.07	38.48	-48.60	-13.00	35.60	241	135	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1697.5872	58.28	-47.43	25.12	-59.29	-13.00	46.29	275	0	Vertical
2	2546.4433	73.34	-46.45	27.80	-40.57	-13.00	27.57	184	136	Vertical
3	3693.0347	48.63	-44.50	29.30	-61.83	-13.00	48.83	206	129	Vertical
4	5135.8068	47.96	-42.53	31.71	-58.12	-13.00	45.12	128	82	Vertical
5	7370.3185	45.50	-38.46	36.58	-51.64	-13.00	38.64	244	284	Vertical
6	9885.8943	43.28	-35.07	38.49	-48.56	-13.00	35.56	366	177	Vertical



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**Test Band = GSM\_1900-ANT31**

**Test Channel = LCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3700.535	55.15	-44.51	29.30	-55.32	-13.00	42.32	261	192	Horizontal
2	5689.6345	51.92	-41.17	32.50	-52.01	-13.00	39.01	231	169	Horizontal
3	7469.4735	50.57	-38.29	36.84	-46.14	-13.00	33.14	264	216	Horizontal
4	9477.3239	52.22	-35.87	37.66	-41.25	-13.00	28.25	248	307	Horizontal
5	11035.9018	50.88	-37.20	40.14	-41.44	-13.00	28.44	203	188	Horizontal
6	15206.8603	54.03	-35.35	39.71	-36.87	-13.00	23.87	246	291	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3700.535	52.54	-44.51	29.30	-57.93	-13.00	44.93	181	98	Vertical
2	5669.3835	52.39	-41.23	32.50	-51.60	-13.00	38.60	226	126	Vertical
3	7714.7357	49.96	-37.61	36.68	-46.23	-13.00	33.23	139	23	Vertical
4	9434.5717	51.82	-35.60	37.44	-41.60	-13.00	28.60	264	192	Vertical
5	11005.1503	50.64	-37.01	40.11	-41.52	-13.00	28.52	126	271	Vertical
6	15196.3598	54.14	-35.43	39.72	-36.83	-13.00	23.83	226	23	Vertical



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**Test Band = GSM\_1900-ANT31**

**Test Channel = MCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3759.788	51.85	-44.76	29.64	-58.53	-13.00	45.53	261	196	Horizontal
2	5696.3848	51.85	-41.15	32.50	-52.06	-13.00	39.06	266	287	Horizontal
3	7468.7234	50.78	-38.29	36.84	-45.93	-13.00	32.93	234	11	Horizontal
4	9483.3242	51.91	-35.90	37.70	-41.55	-13.00	28.55	284	216	Horizontal
5	13505.7753	52.41	-37.98	39.91	-40.92	-13.00	27.92	261	303	Horizontal
6	15208.3604	54.16	-35.37	39.72	-36.75	-13.00	23.75	225	152	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3759.788	52.29	-44.76	29.64	-58.09	-13.00	45.09	261	97	Vertical
2	5714.3857	52.45	-41.18	32.50	-51.49	-13.00	38.49	228	118	Vertical
3	7410.2205	50.81	-38.28	36.72	-46.01	-13.00	33.01	246	300	Vertical
4	9483.3242	52.31	-35.90	37.70	-41.15	-13.00	28.15	198	161	Vertical
5	11077.1539	50.92	-37.45	40.18	-41.61	-13.00	28.61	241	315	Vertical
6	15190.3595	54.32	-35.67	39.76	-36.85	-13.00	23.85	263	319	Vertical



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**Test Band = GSM\_1900-ANT31**

**Test Channel = HCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3645.0323	51.46	-44.42	29.26	-58.96	-13.00	45.96	215	0	Horizontal
2	5333.3667	50.92	-42.20	32.10	-54.44	-13.00	41.44	264	322	Horizontal
3	6189.1595	51.16	-40.77	33.46	-51.41	-13.00	38.41	161	204	Horizontal
4	9464.5732	51.81	-35.79	37.59	-41.65	-13.00	28.65	245	148	Horizontal
5	11027.6514	50.80	-37.15	40.13	-41.48	-13.00	28.48	211	54	Horizontal
6	15199.36	54.16	-35.32	39.70	-36.72	-13.00	23.72	268	2	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3819.791	52.38	-44.79	29.76	-57.91	-13.00	44.91	236	42	Vertical
2	5694.1347	52.13	-41.16	32.50	-51.79	-13.00	38.79	158	275	Vertical
3	7456.7228	50.88	-38.29	36.81	-45.86	-13.00	32.86	254	176	Vertical
4	9457.8229	51.88	-35.74	37.55	-41.57	-13.00	28.57	261	73	Vertical
5	11016.4008	51.12	-37.08	40.12	-41.10	-13.00	28.10	261	342	Vertical
6	15217.3609	54.36	-35.45	39.73	-36.62	-13.00	23.62	266	105	Vertical



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**Test Band = GSM\_850-ANT31**

**Test Channel = LCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1648.331	58.76	-47.52	25.49	-58.53	-13.00	45.53	209	255	Horizontal
2	2472.4341	63.84	-46.67	27.69	-50.40	-13.00	37.40	219	12	Horizontal
3	3743.7872	48.60	-44.69	29.56	-61.79	-13.00	48.79	241	201	Horizontal
4	5044.8022	46.68	-42.63	31.56	-59.65	-13.00	46.65	218	144	Horizontal
5	7423.1712	44.49	-38.28	36.75	-52.30	-13.00	39.30	226	227	Horizontal
6	9560.378	43.56	-35.79	37.80	-49.69	-13.00	36.69	261	232	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1648.5811	50.82	-47.52	25.49	-66.47	-13.00	53.47	347	99	Vertical
2	2472.4341	55.69	-46.67	27.69	-58.55	-13.00	45.55	119	148	Vertical
3	3730.1365	48.81	-44.64	29.48	-61.61	-13.00	48.61	246	222	Vertical
4	5677.6339	46.99	-41.21	32.50	-56.98	-13.00	43.98	100	243	Vertical
5	7858.2429	44.11	-37.66	36.75	-52.06	-13.00	39.06	261	301	Vertical
6	9562.8281	43.31	-35.78	37.80	-49.93	-13.00	36.93	269	258	Vertical



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**Test Band = GSM\_850-ANT31**

**Test Channel = MCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1673.3342	59.78	-47.48	25.31	-57.65	-13.00	44.65	158	142	Horizontal
2	2509.6887	63.90	-46.64	27.80	-50.20	-13.00	37.20	256	24	Horizontal
3	3897.4449	48.14	-44.22	29.70	-61.64	-13.00	48.64	236	22	Horizontal
4	5717.1859	46.75	-41.19	32.50	-57.20	-13.00	44.20	211	317	Horizontal
5	7366.1183	44.80	-38.48	36.56	-52.38	-13.00	39.38	264	301	Horizontal
6	9557.5779	43.62	-35.80	37.80	-49.64	-13.00	36.64	269	358	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1673.0841	52.35	-47.48	25.32	-65.07	-13.00	52.07	245	100	Vertical
2	2509.6887	55.58	-46.64	27.80	-58.52	-13.00	45.52	165	152	Vertical
3	3730.4865	48.98	-44.64	29.48	-61.44	-13.00	48.44	214	112	Vertical
4	5679.384	46.67	-41.20	32.50	-57.29	-13.00	44.29	338	327	Vertical
5	7428.4214	44.89	-38.28	36.76	-51.89	-13.00	38.89	264	180	Vertical
6	9563.8782	43.59	-35.77	37.80	-49.64	-13.00	36.64	221	154	Vertical



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**Test Band = GSM\_850-ANT31**  
**Test Channel = HCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1697.3372	61.02	-47.43	25.12	-56.55	-13.00	43.55	176	72	Horizontal
2	2546.4433	75.39	-46.45	27.80	-38.52	-13.00	25.52	182	46	Horizontal
3	4243.9622	49.07	-43.49	29.78	-59.90	-13.00	46.90	261	283	Horizontal
4	5700.035	46.79	-41.14	32.50	-57.11	-13.00	44.11	294	57	Horizontal
5	7489.6745	44.59	-38.29	36.88	-52.08	-13.00	39.08	106	62	Horizontal
6	9523.2762	43.61	-35.92	37.80	-49.77	-13.00	36.77	144	46	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1697.5872	56.57	-47.43	25.12	-61.00	-13.00	48.00	243	235	Vertical
2	2546.4433	71.69	-46.45	27.80	-42.22	-13.00	29.22	173	360	Vertical
3	3711.5856	48.81	-44.56	29.37	-61.64	-13.00	48.64	301	239	Vertical
4	4243.9622	49.23	-43.49	29.78	-59.74	-13.00	46.74	176	24	Vertical
5	5716.1358	47.10	-41.19	32.50	-56.85	-13.00	43.85	349	19	Vertical
6	7853.6927	44.17	-37.67	36.78	-51.98	-13.00	38.98	255	171	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) - Pre-amplifier (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	VN	NT	25.99	0.031066	±2.5	PASS
GSM850	190	VL	NT	30.50	0.036457	±2.5	PASS
GSM850	190	VH	NT	24.57	0.029369	±2.5	PASS
EGPRS850	190	VN	NT	51.32	0.061344	±2.5	PASS
EGPRS850	190	VL	NT	53.09	0.063459	±2.5	PASS
EGPRS850	190	VH	NT	47.79	0.057124	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	28.65	0.034246	±2.5	PASS
GSM850	190	NV	-20	26.44	0.031604	±2.5	PASS
GSM850	190	NV	-10	26.69	0.031903	±2.5	PASS
GSM850	190	NV	0	28.62	0.034210	±2.5	PASS
GSM850	190	NV	10	25.32	0.030265	±2.5	PASS
GSM850	190	NV	20	29.59	0.035369	±2.5	PASS
GSM850	190	NV	30	23.78	0.028425	±2.5	PASS
GSM850	190	NV	40	29.97	0.035824	±2.5	PASS
GSM850	190	NV	50	31.32	0.037437	±2.5	PASS
EGPRS850	190	NV	-30	49.11	0.058702	±2.5	PASS
EGPRS850	190	NV	-20	50.35	0.060184	±2.5	PASS
EGPRS850	190	NV	-10	51.66	0.061750	±2.5	PASS
EGPRS850	190	NV	0	49.92	0.059670	±2.5	PASS
EGPRS850	190	NV	10	51.48	0.061535	±2.5	PASS
EGPRS850	190	NV	20	52.04	0.062204	±2.5	PASS
EGPRS850	190	NV	30	50.92	0.060865	±2.5	PASS
EGPRS850	190	NV	40	52.31	0.062527	±2.5	PASS
EGPRS850	190	NV	50	47.91	0.057268	±2.5	PASS



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Voltage						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VN	NT	47.04	0.025021	PASS
GSM1900	661	VL	NT	44.63	0.023739	PASS
GSM1900	661	VH	NT	46.17	0.024559	PASS
EGPRS1900	661	VN	NT	60.80	0.032340	PASS
EGPRS1900	661	VL	NT	58.43	0.031080	PASS
EGPRS1900	661	VH	NT	60.36	0.032106	PASS

Temperature						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	43.07	0.022910	PASS
GSM1900	661	NV	-20	39.44	0.020979	PASS
GSM1900	661	NV	-10	51.29	0.027282	PASS
GSM1900	661	NV	0	46.41	0.024686	PASS
GSM1900	661	NV	10	51.25	0.027261	PASS
GSM1900	661	NV	20	49.76	0.026468	PASS
GSM1900	661	NV	30	46.11	0.024527	PASS
GSM1900	661	NV	40	44.35	0.023590	PASS
GSM1900	661	NV	50	42.31	0.022505	PASS
EGPRS1900	661	NV	-30	60.14	0.031989	PASS
EGPRS1900	661	NV	-20	61.24	0.032574	PASS
EGPRS1900	661	NV	-10	60.87	0.032378	PASS
EGPRS1900	661	NV	0	58.08	0.030894	PASS
EGPRS1900	661	NV	10	59.01	0.031388	PASS
EGPRS1900	661	NV	20	56.56	0.030085	PASS
EGPRS1900	661	NV	30	59.23	0.031505	PASS
EGPRS1900	661	NV	40	58.84	0.031298	PASS
EGPRS1900	661	NV	50	55.58	0.029564	PASS

---End of Attachment---



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