



Appendix B

GSM 850 & 1900



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1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

ANT1:

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	33.81	29.86	38.45	PASS
GSM850	190	---	33.85	29.9	38.45	PASS
GSM850	251	---	33.69	29.74	38.45	PASS
EGPRS850	128	1	27.30	23.35	38.45	PASS
EGPRS850	128	2	24.72	20.77	38.45	PASS
EGPRS850	128	3	23.57	19.62	38.45	PASS
EGPRS850	128	4	22.87	18.92	38.45	PASS
EGPRS850	190	1	27.31	23.36	38.45	PASS
EGPRS850	190	2	24.73	20.78	38.45	PASS
EGPRS850	190	3	23.56	19.61	38.45	PASS
EGPRS850	190	4	22.87	18.92	38.45	PASS
EGPRS850	251	1	27.35	23.4	38.45	PASS
EGPRS850	251	2	24.79	20.84	38.45	PASS
EGPRS850	251	3	23.51	19.56	38.45	PASS
EGPRS850	251	4	22.83	18.88	38.45	PASS

ANT4:

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	30.53	27.83	33.00	PASS
GSM1900	661	---	30.63	27.93	33.00	PASS
GSM1900	810	---	30.60	27.9	33.00	PASS
EGPRS1900	512	1	25.77	23.07	33.00	PASS
EGPRS1900	512	2	23.65	20.95	33.00	PASS
EGPRS1900	512	3	23.58	20.88	33.00	PASS
EGPRS1900	512	4	22.21	19.51	33.00	PASS
EGPRS1900	661	1	25.62	22.92	33.00	PASS
EGPRS1900	661	2	23.37	20.67	33.00	PASS
EGPRS1900	661	3	22.66	19.96	33.00	PASS
EGPRS1900	661	4	22.01	19.31	33.00	PASS
EGPRS1900	810	1	25.61	22.91	33.00	PASS
EGPRS1900	810	2	23.36	20.66	33.00	PASS
EGPRS1900	810	3	22.93	20.23	33.00	PASS
EGPRS1900	810	4	21.58	18.88	33.00	PASS



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ANT0:

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	33.21	24.26	38.45	PASS
GSM850	190	---	33.35	24.4	38.45	PASS
GSM850	251	---	33.01	24.06	38.45	PASS
EGPRS850	128	1	26.82	17.87	38.45	PASS
EGPRS850	128	2	24.16	15.21	38.45	PASS
EGPRS850	128	3	23.06	14.11	38.45	PASS
EGPRS850	128	4	22.46	13.51	38.45	PASS
EGPRS850	190	1	26.72	17.77	38.45	PASS
EGPRS850	190	2	24.18	15.23	38.45	PASS
EGPRS850	190	3	22.96	14.01	38.45	PASS
EGPRS850	190	4	22.37	13.42	38.45	PASS
EGPRS850	251	1	26.28	17.33	38.45	PASS
EGPRS850	251	2	23.71	14.76	38.45	PASS
EGPRS850	251	3	22.53	13.58	38.45	PASS
EGPRS850	251	4	22.24	13.29	38.45	PASS

ANT3:

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.75	29.85	33.00	PASS
GSM1900	661	---	29.35	29.45	33.00	PASS
GSM1900	810	---	29.51	29.61	33.00	PASS
EGPRS1900	512	1	24.77	24.87	33.00	PASS
EGPRS1900	512	2	23.42	23.52	33.00	PASS
EGPRS1900	512	3	22.39	22.49	33.00	PASS
EGPRS1900	512	4	21.1	21.2	33.00	PASS
EGPRS1900	661	1	24.59	24.69	33.00	PASS
EGPRS1900	661	2	23.25	23.35	33.00	PASS
EGPRS1900	661	3	22.17	22.27	33.00	PASS
EGPRS1900	661	4	20.92	21.02	33.00	PASS
EGPRS1900	810	1	24.55	24.65	33.00	PASS
EGPRS1900	810	2	23.18	23.28	33.00	PASS
EGPRS1900	810	3	21.95	22.05	33.00	PASS
EGPRS1900	810	4	20.75	20.85	33.00	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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2. Peak-to-Average Ratio

2.1. Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.25	13	PASS
GSM850	190	9.25	13	PASS
GSM850	251	9.28	13	PASS
EGPRS850	128	11.8	13	PASS
EGPRS850	190	11.91	13	PASS
EGPRS850	251	11.8	13	PASS
GSM1900	512	9.25	13	PASS
GSM1900	661	9.22	13	PASS
GSM1900	810	9.22	13	PASS
EGPRS1900	512	12.06	13	PASS
EGPRS1900	661	12.06	13	PASS
EGPRS1900	810	11.91	13	PASS



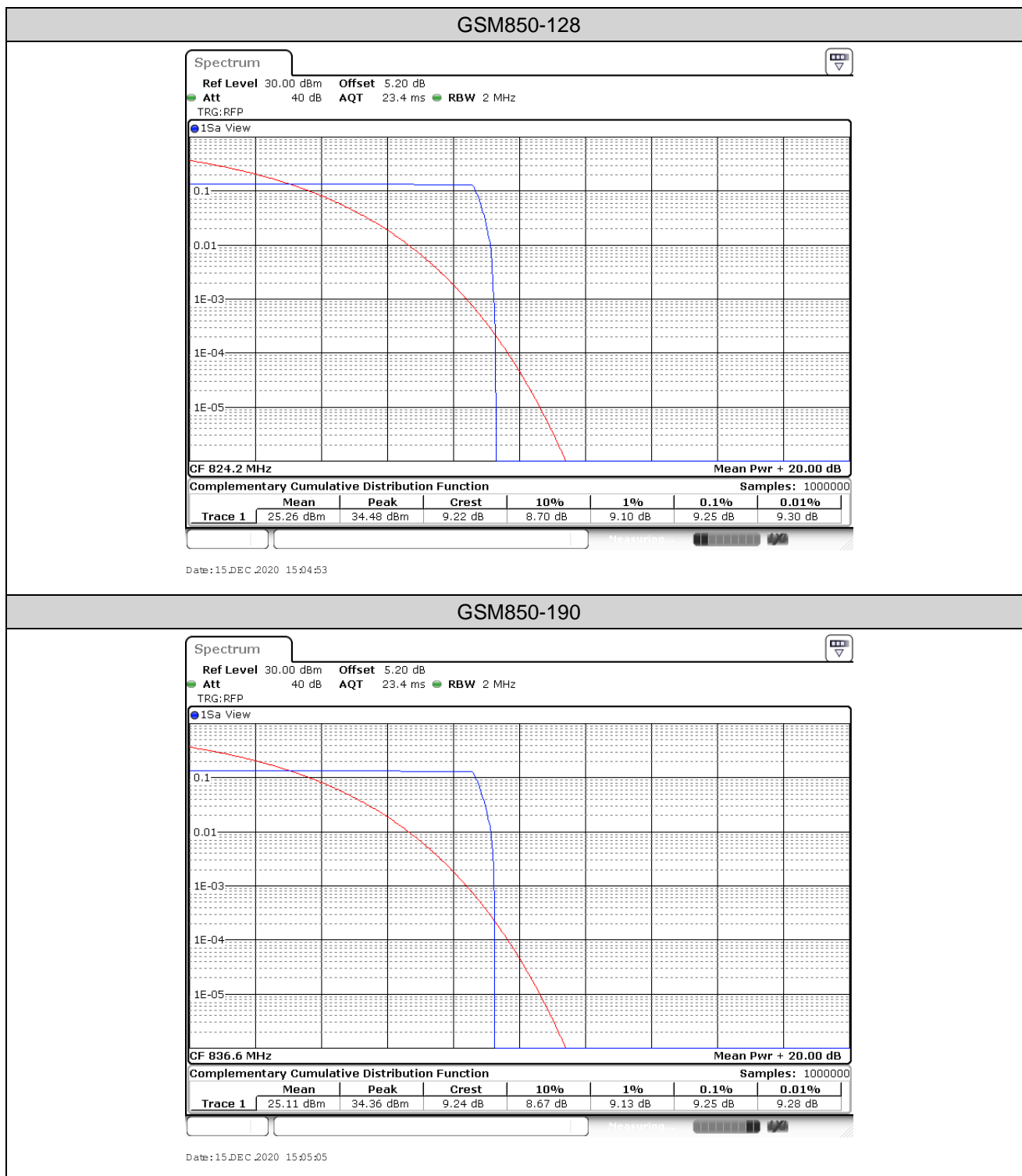
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2.2.Part II - Test Plots

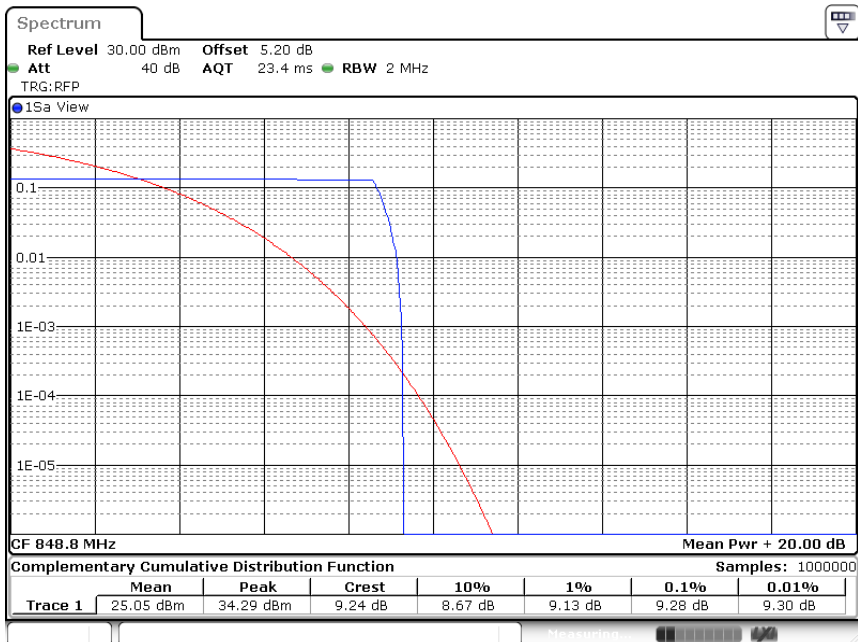


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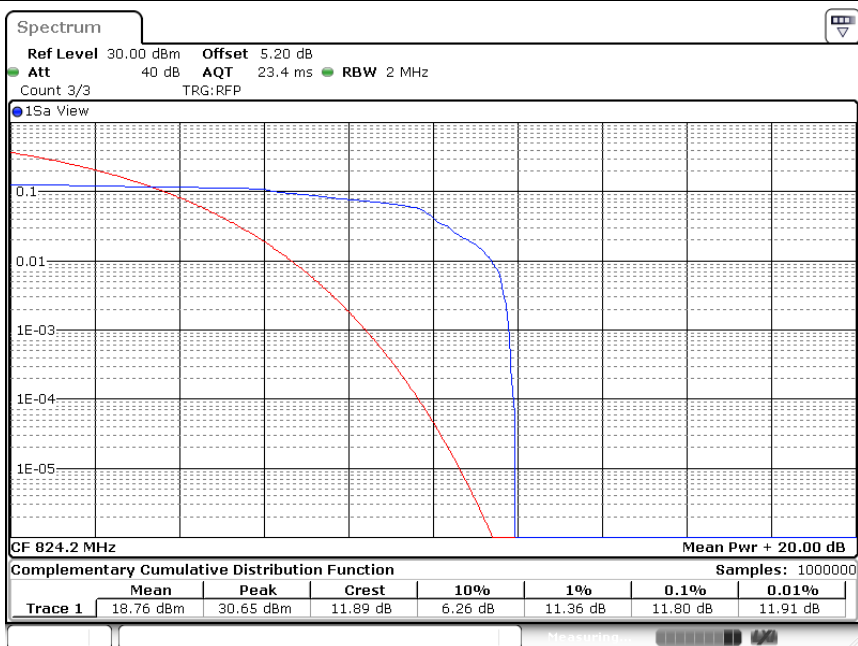
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GSM850-251



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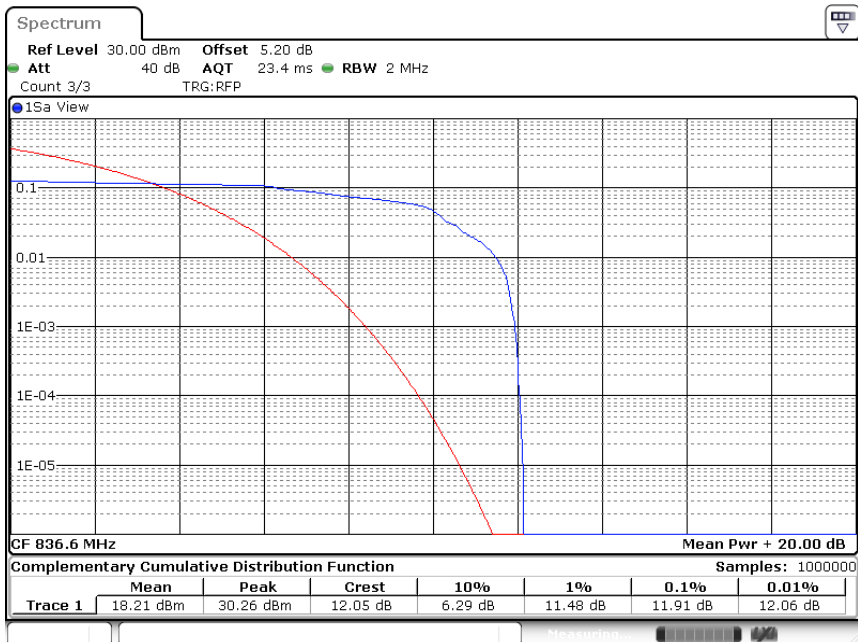
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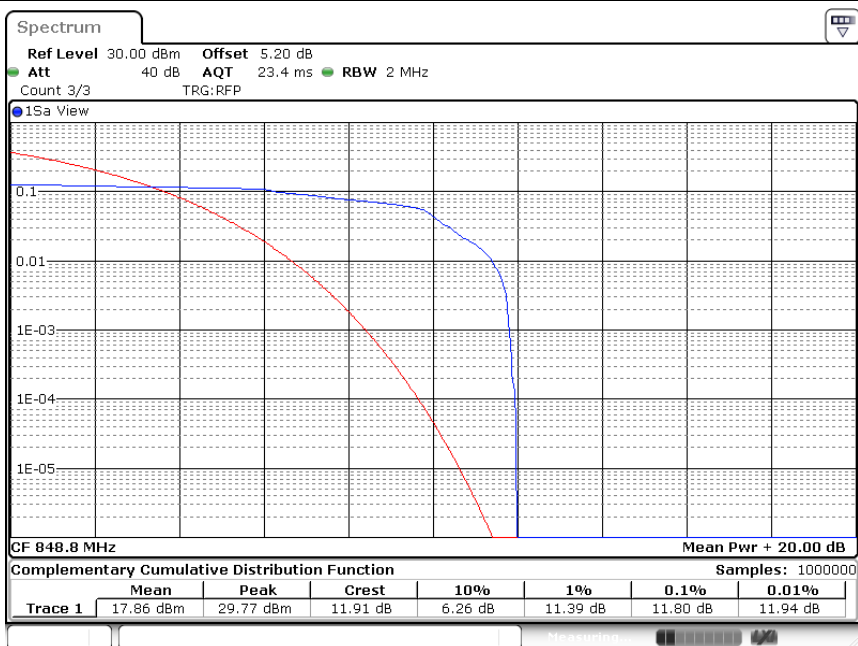


EGPRS850-190



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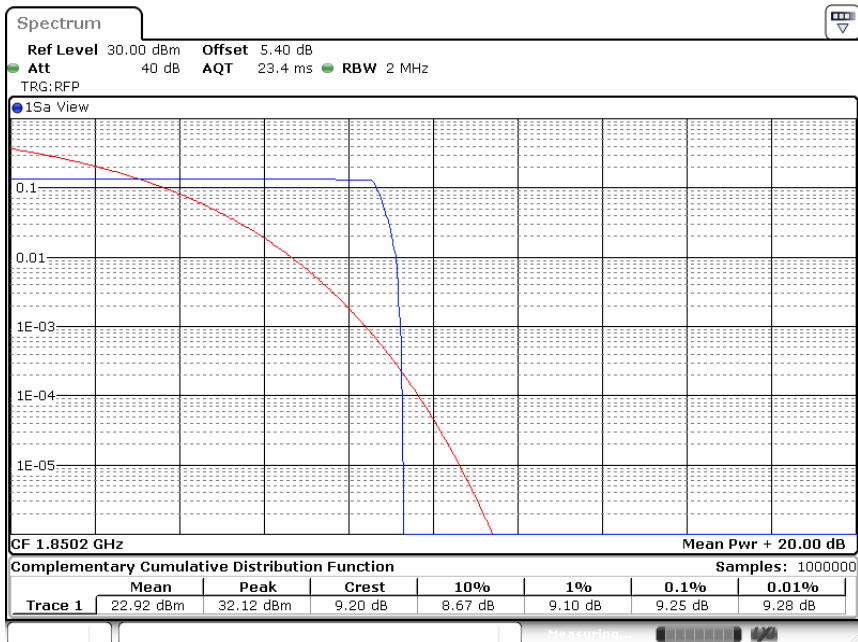
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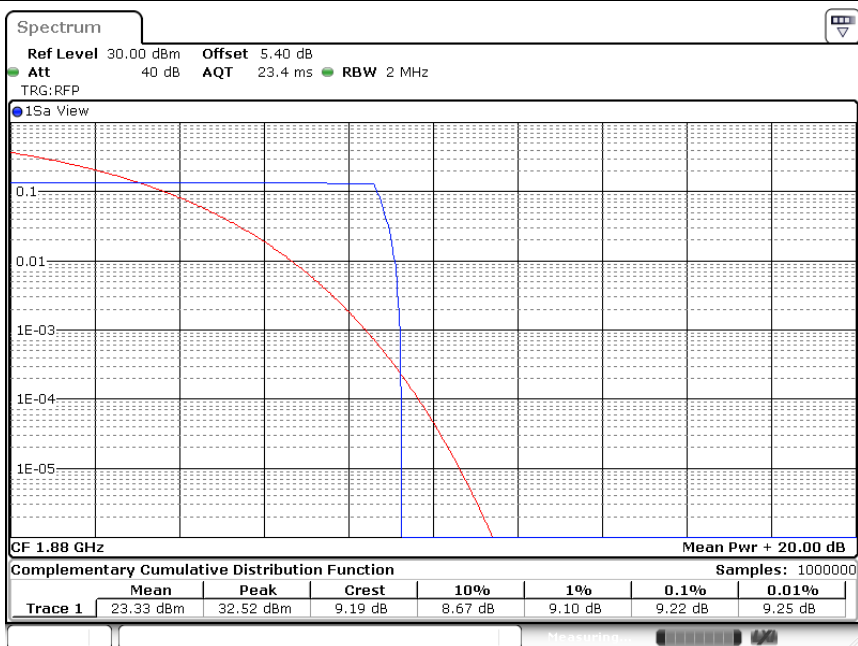


GSM1900-512



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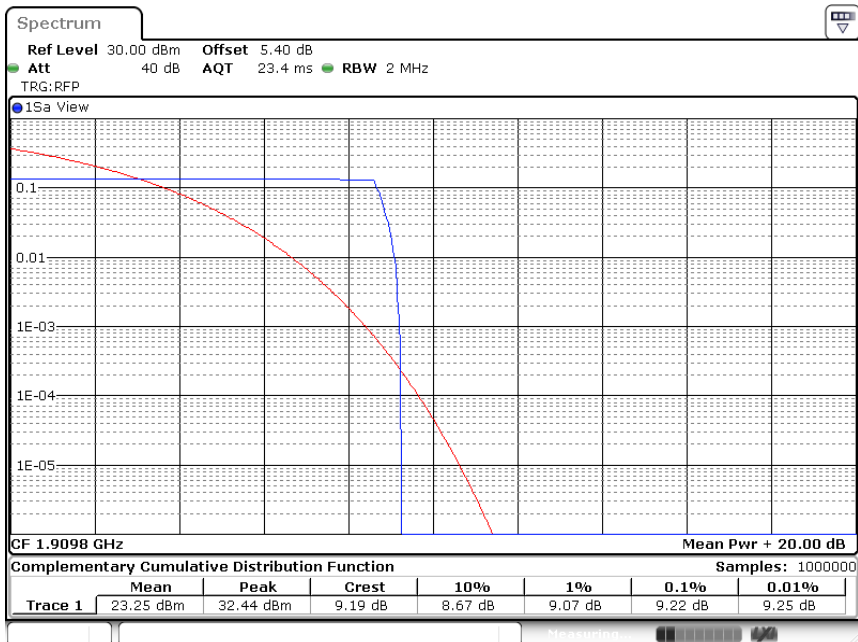
GSM1900-661



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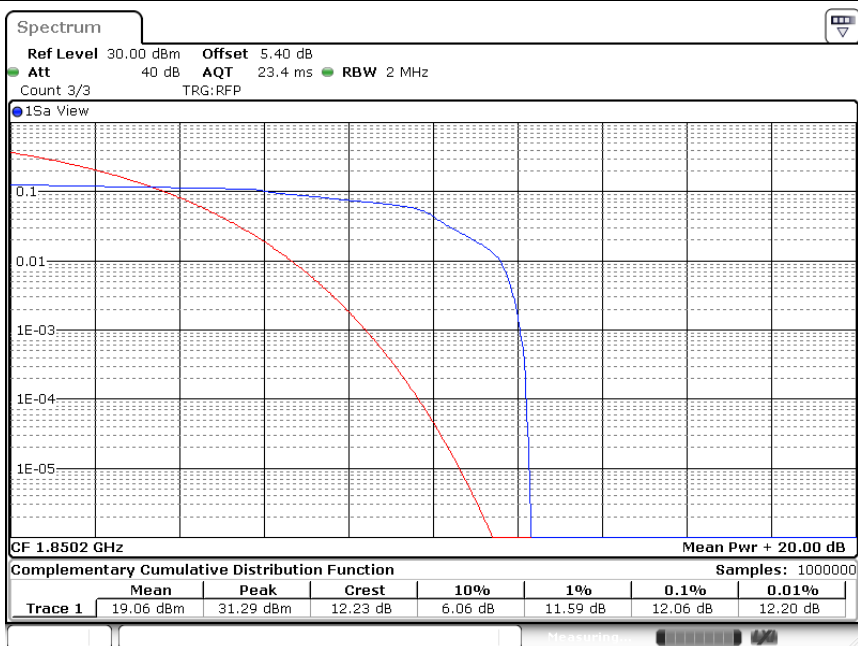


GSM1900-810



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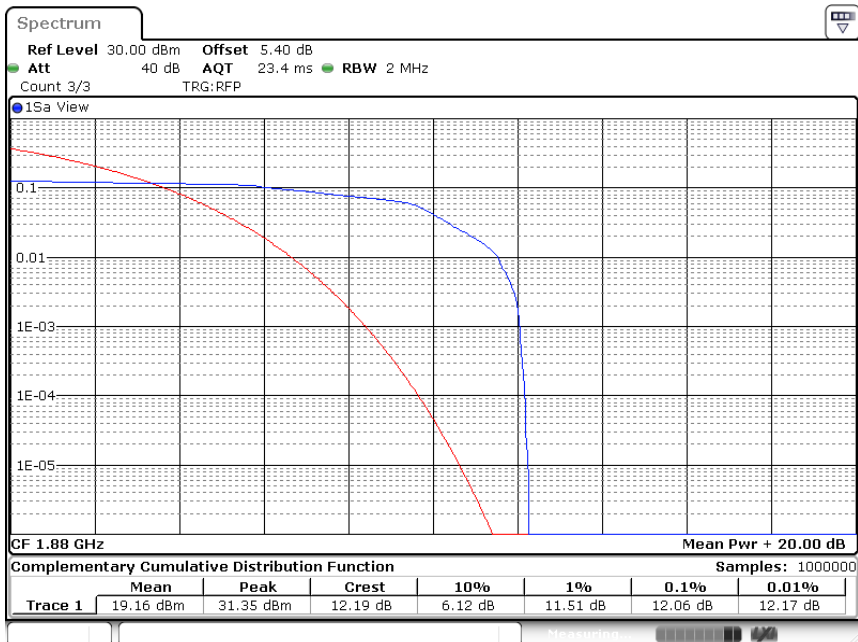
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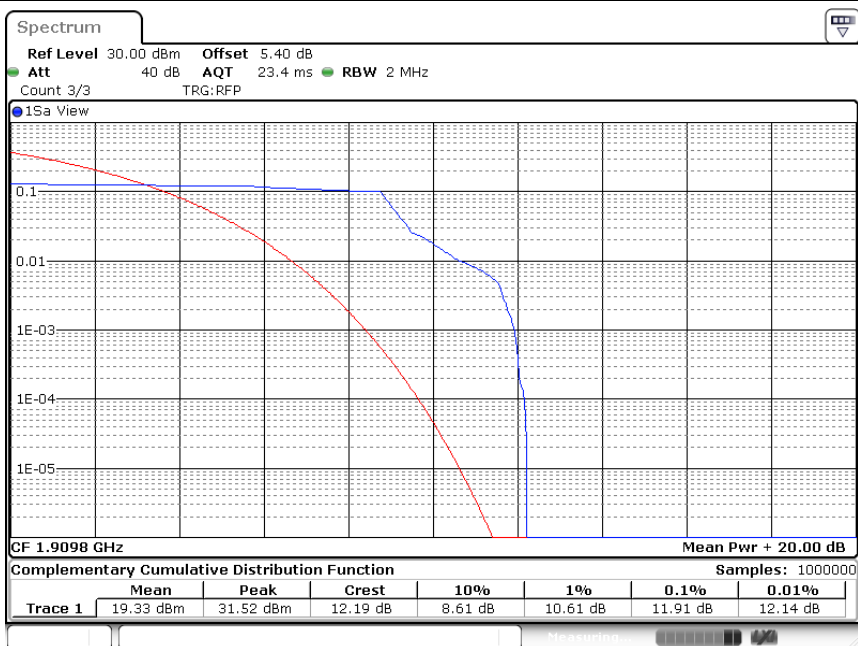


EGPRS1900-661



Date: 15 DEC 2020 14:53:13

EGPRS1900-810



Date: 15 DEC 2020 14:53:25



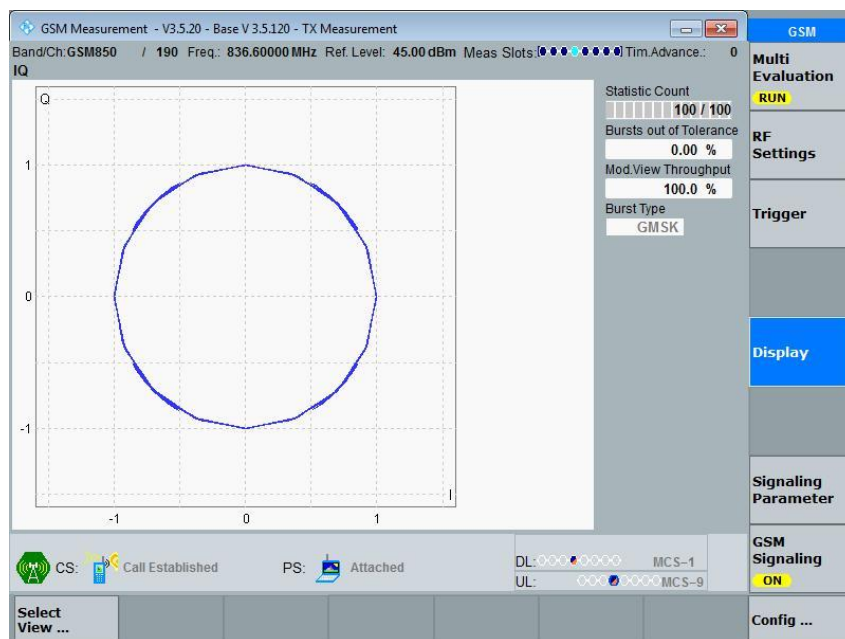
3. Modulation Characteristics

3.1. For GSM

3.1.1. Test Band = GSM 850

3.1.1.1. Test Mode = GSM/TM1

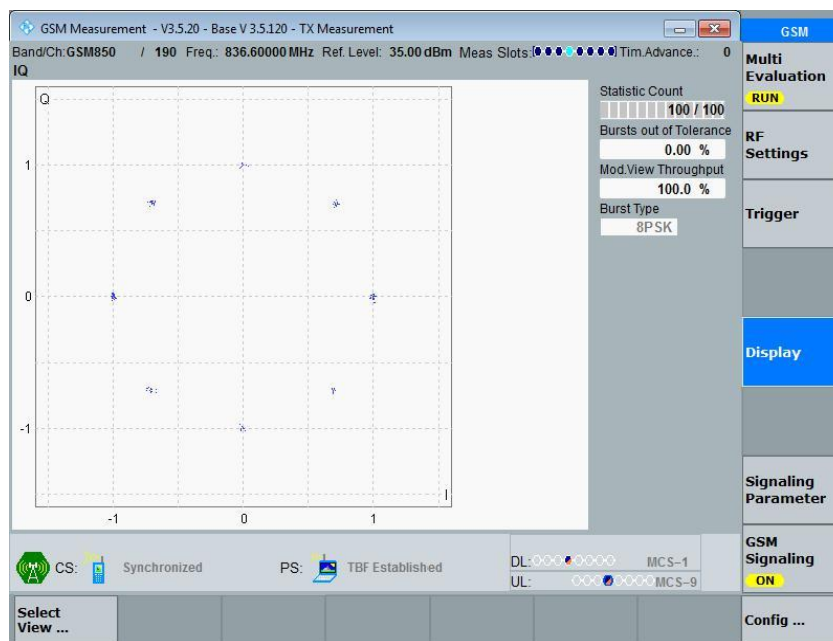
3.1.1.1.1. Test Channel = MCH





3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH



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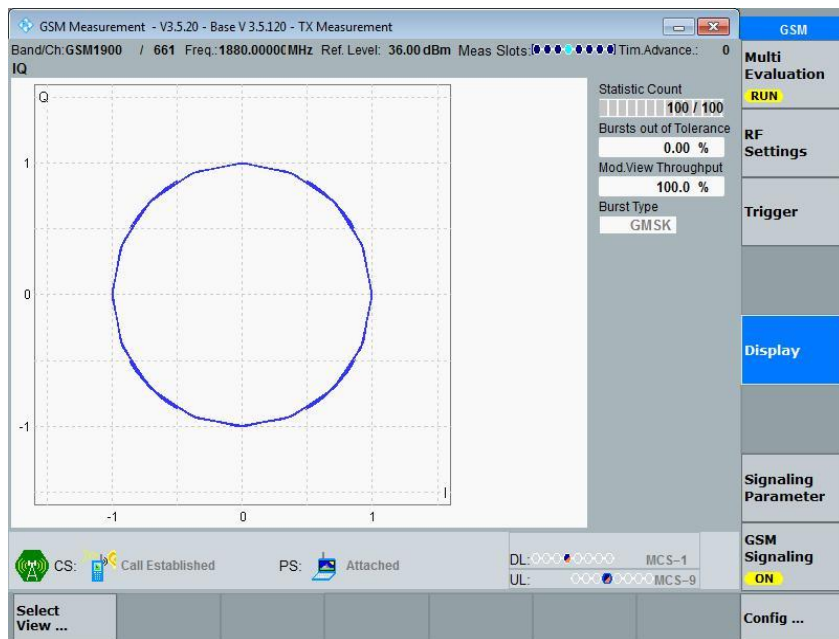
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3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

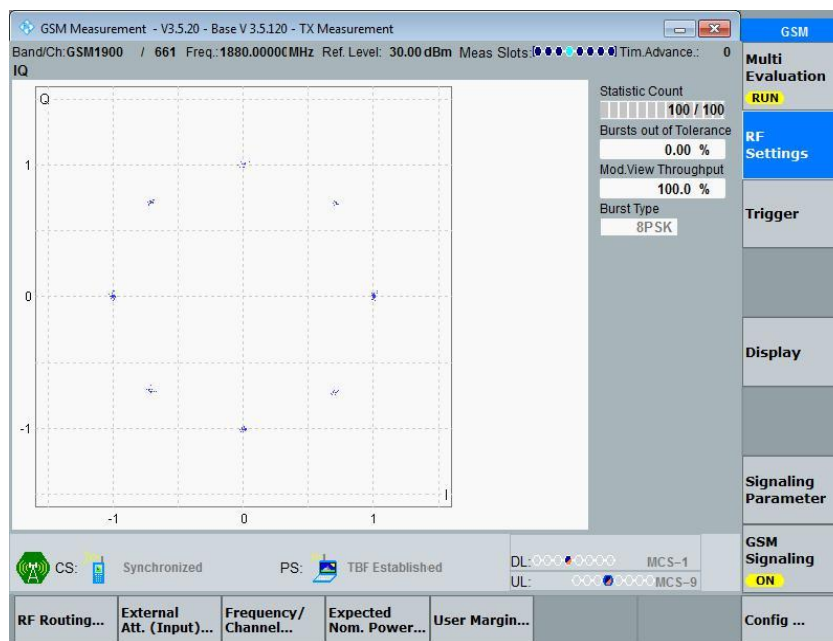
3.1.2.1.1. Test Channel = MCH





3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



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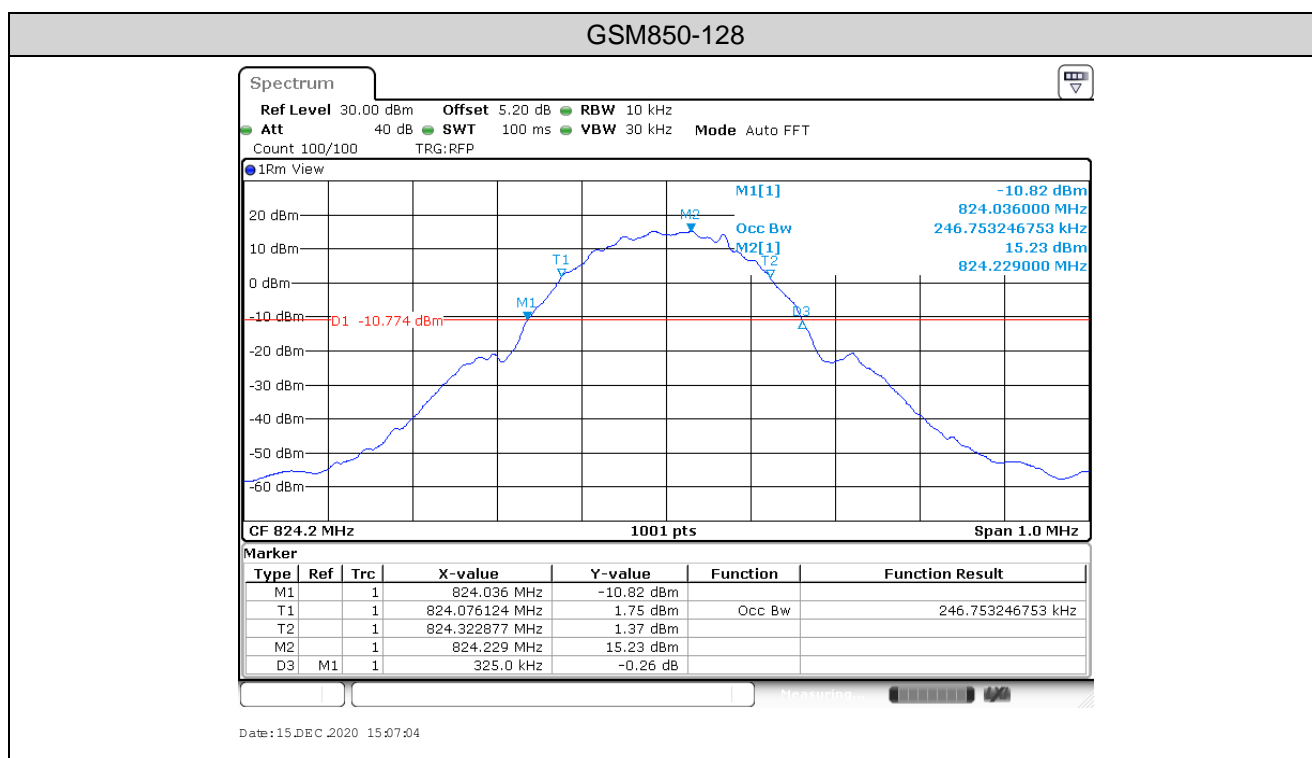


4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.247	0.325	---	PASS
GSM850	190	0.246	0.324	---	PASS
GSM850	251	0.246	0.325	---	PASS
EGPRS850	128	0.244	0.320	---	PASS
EGPRS850	190	0.246	0.321	---	PASS
EGPRS850	251	0.244	0.320	---	PASS
GSM1900	512	0.245	0.320	---	PASS
GSM1900	661	0.245	0.323	---	PASS
GSM1900	810	0.245	0.323	---	PASS
EGPRS1900	512	0.243	0.315	---	PASS
EGPRS1900	661	0.244	0.317	---	PASS
EGPRS1900	810	0.244	0.316	---	PASS

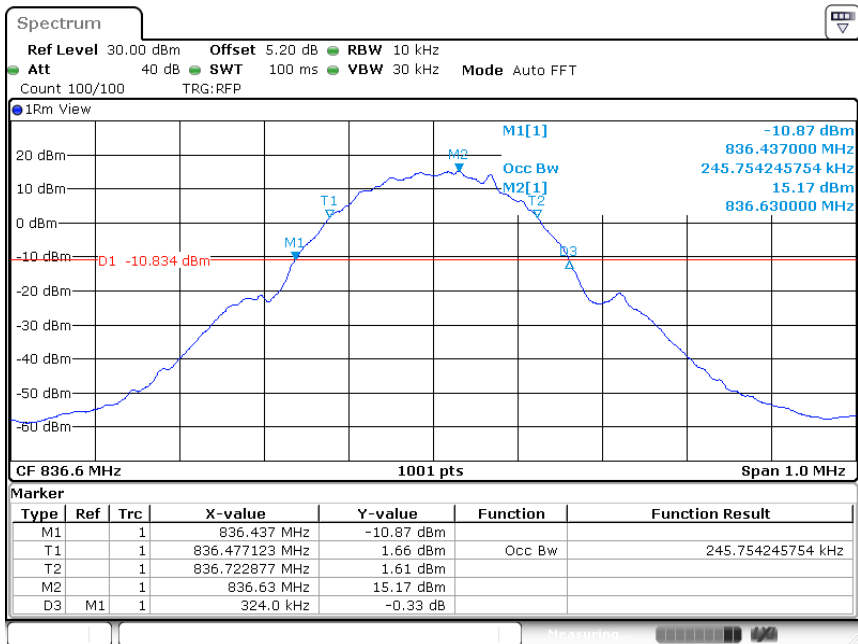
4.2. Test Plots



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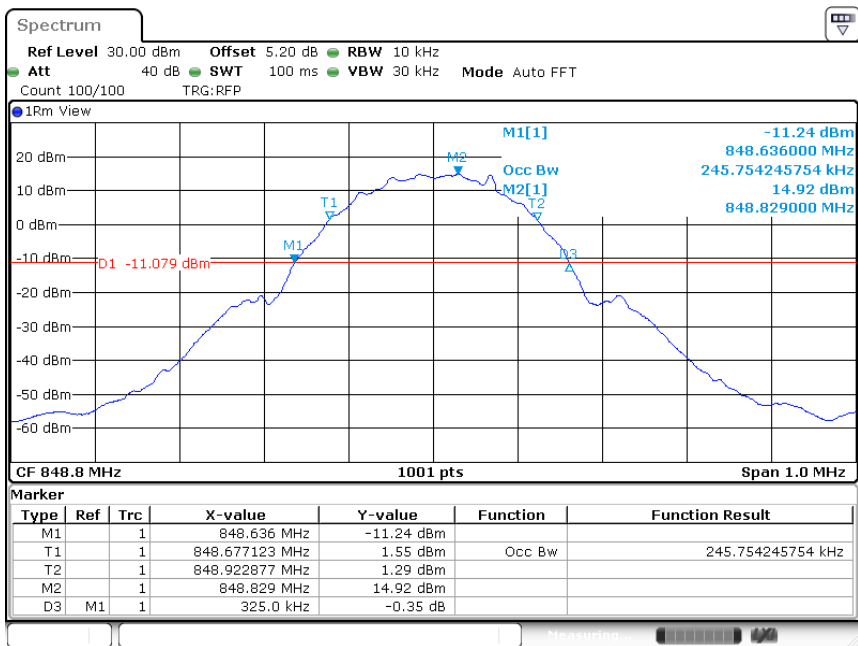
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GSM850-190



Date: 15 DEC 2020 15:07:25

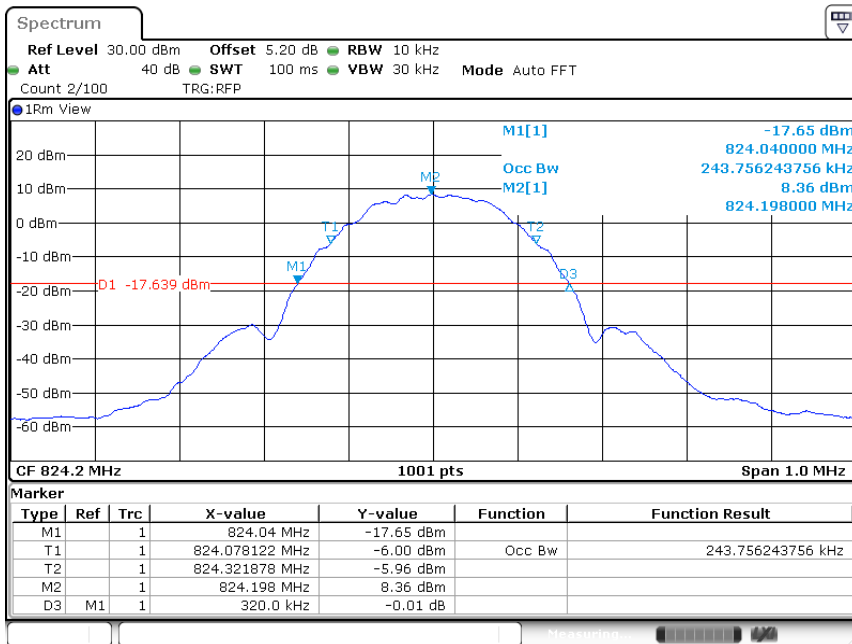
GSM850-251



Date: 15 DEC 2020 15:07:46

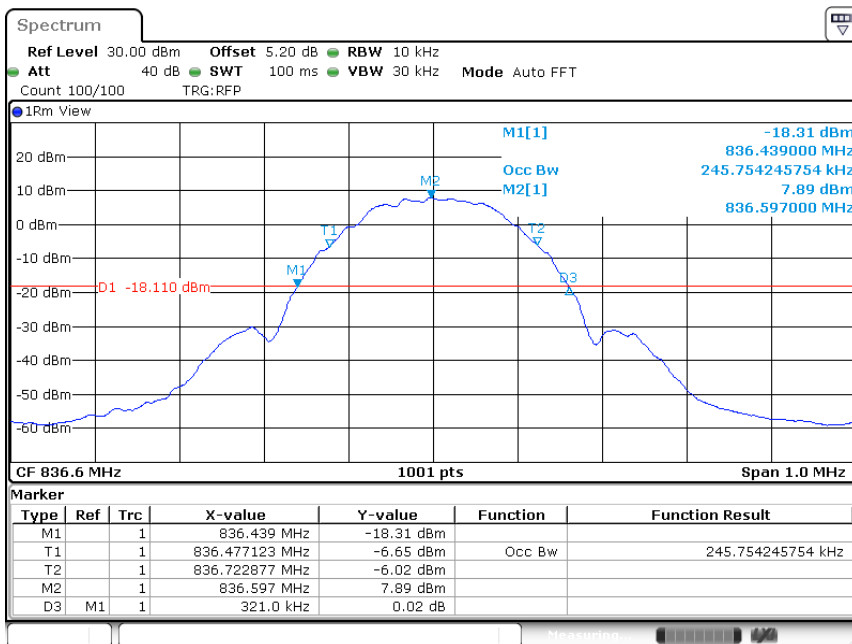


EGPRS850-128



Date: 15 DEC 2020 15:12:50

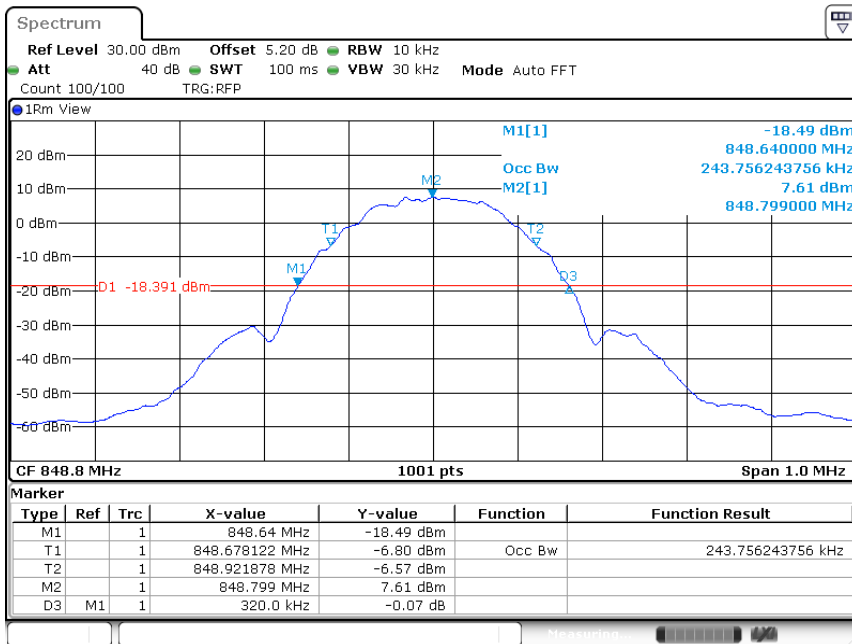
EGPRS850-190



Date: 15 DEC 2020 15:13:11

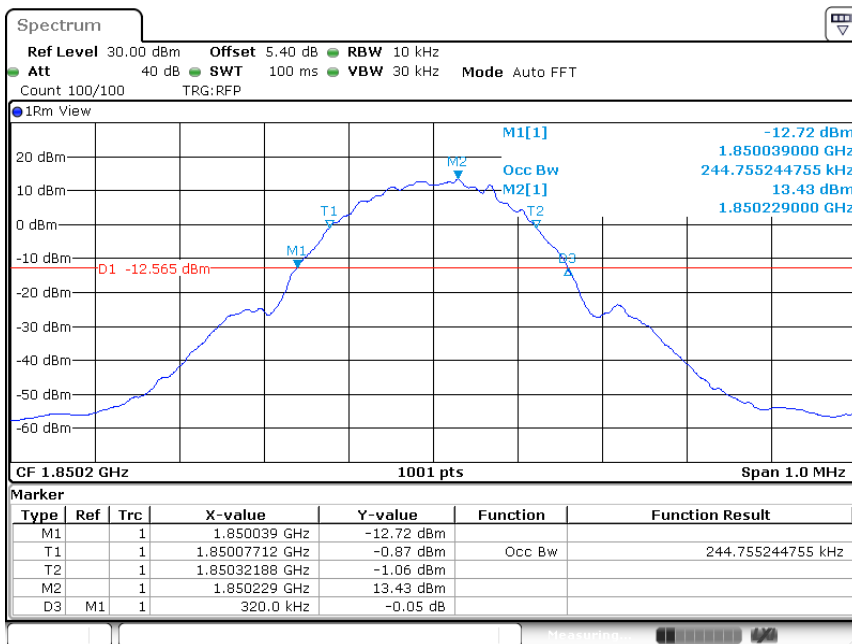


EGPRS850-251



Date: 15 DEC 2020 15:13:33

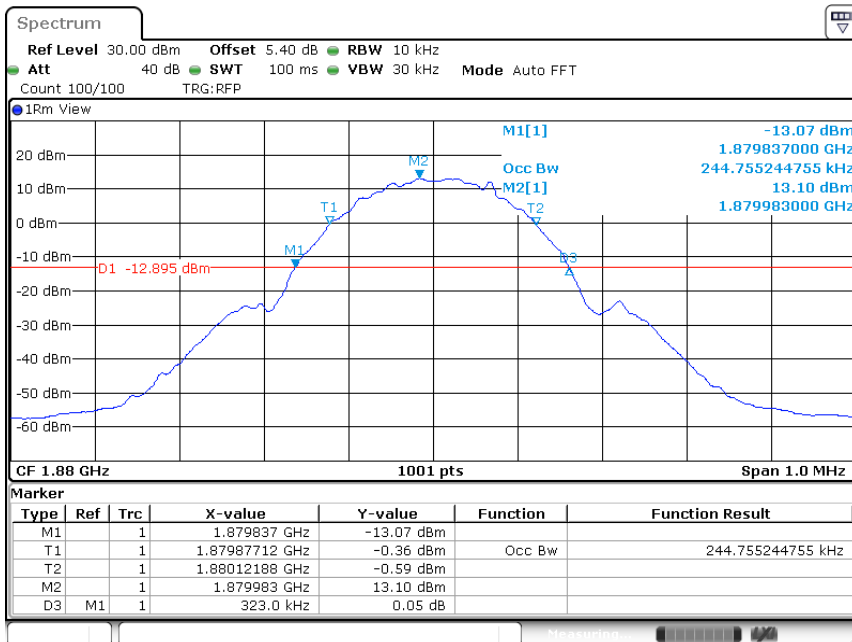
GSM1900-512



Date: 15 DEC 2020 14:47:04

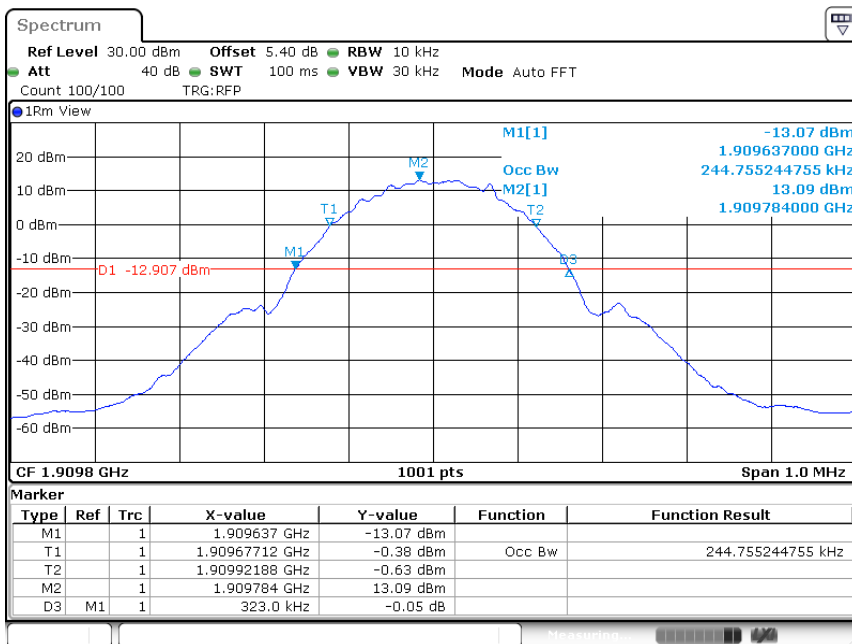


GSM1900-661



Date: 15 DEC 2020 14:47:25

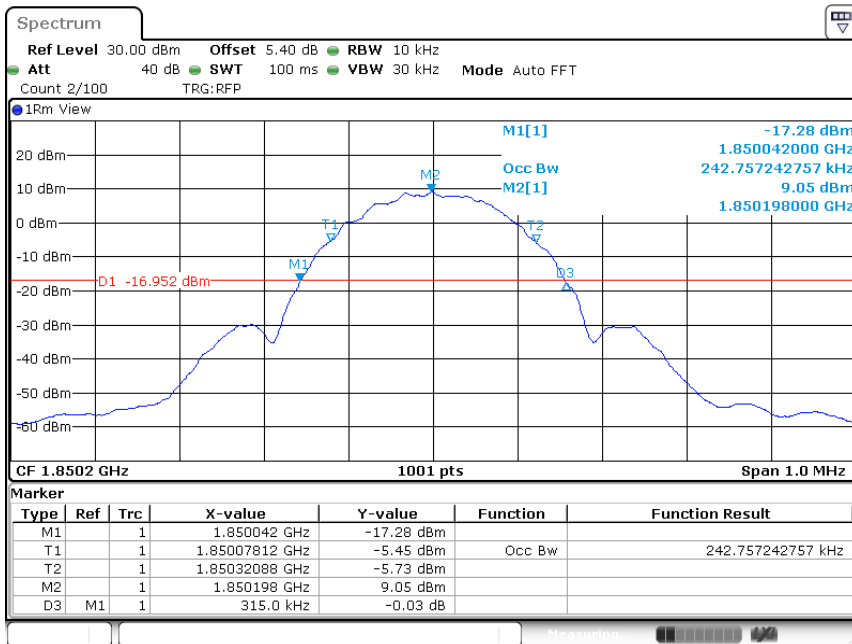
GSM1900-810



Date: 15 DEC 2020 14:47:46

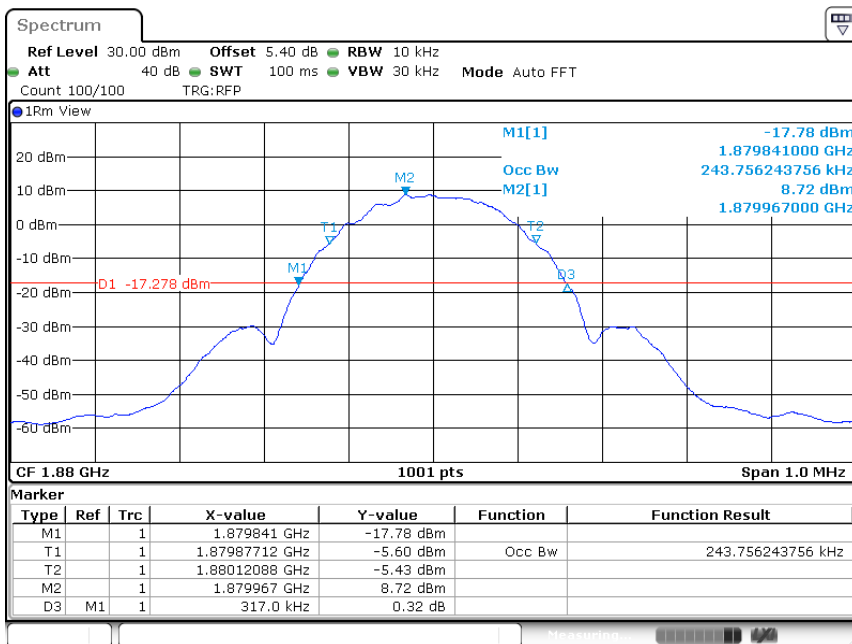


EGPRS1900-512



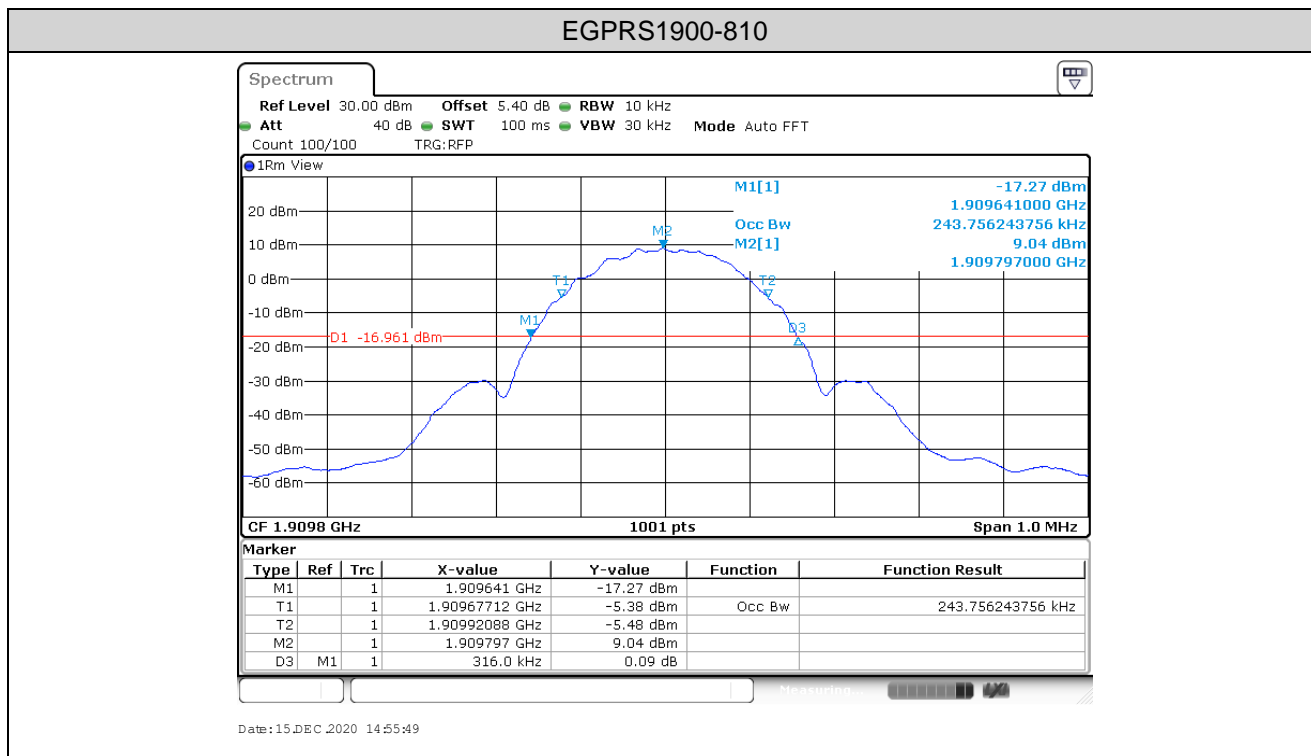
Date: 15 DEC 2020 14:55:06

EGPRS1900-661



Date: 15 DEC 2020 14:55:28



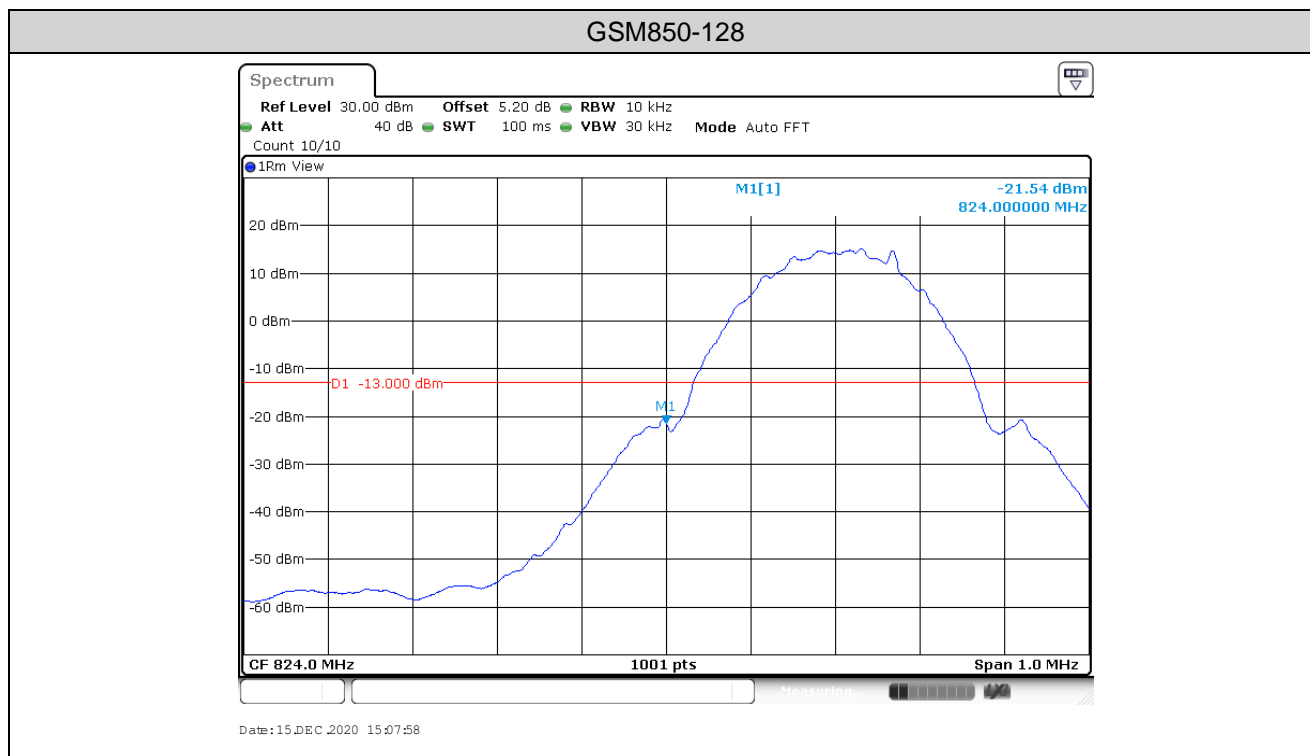


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5. Band Edge Compliance

5.1. Test Plots

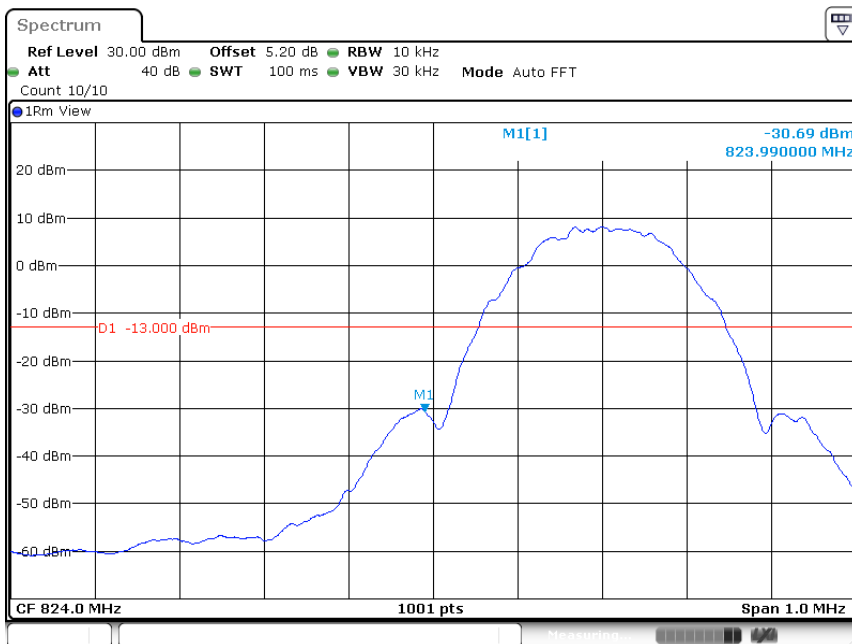


GSM850-251



Date: 15 DEC 2020 15:08:10

EGPRS850-128



Date: 15 DEC 2020 15:13:46

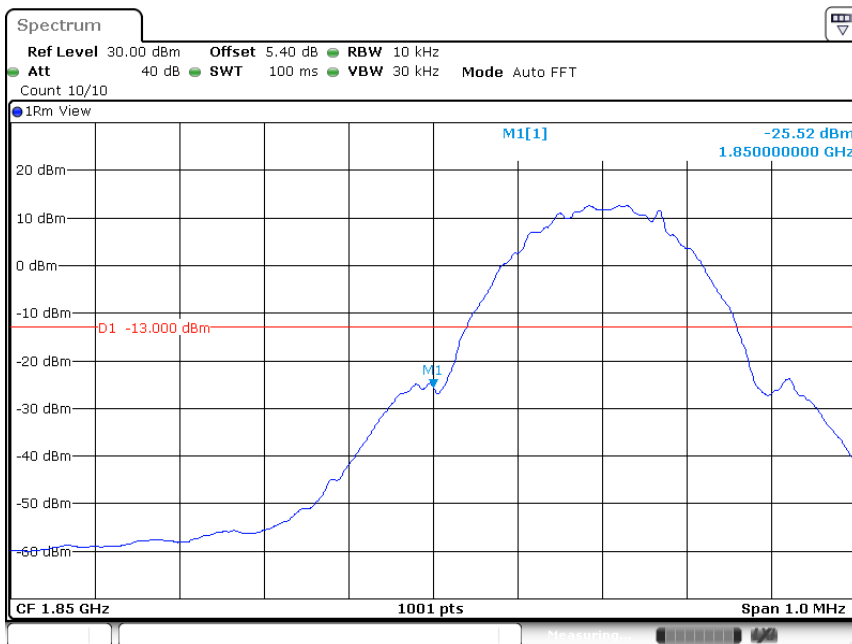


EGPRS850-251



Date: 15 DEC 2020 15:13:58

GSM1900-512



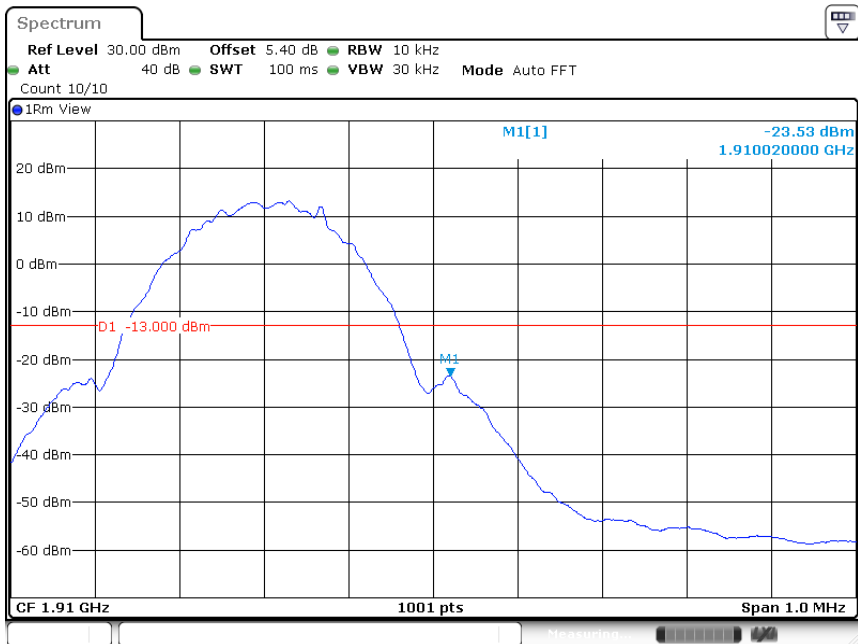
Date: 15 DEC 2020 14:47:58



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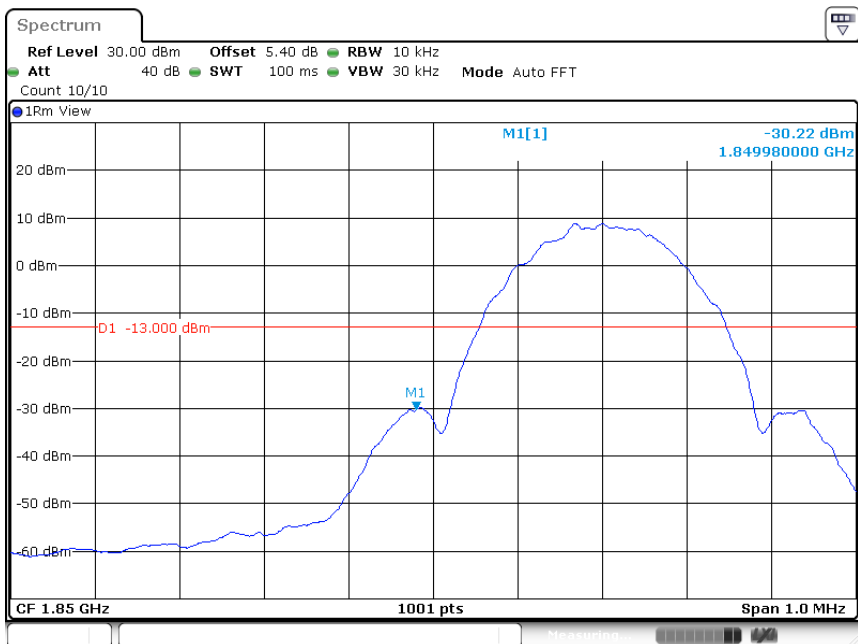
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GSM1900-810



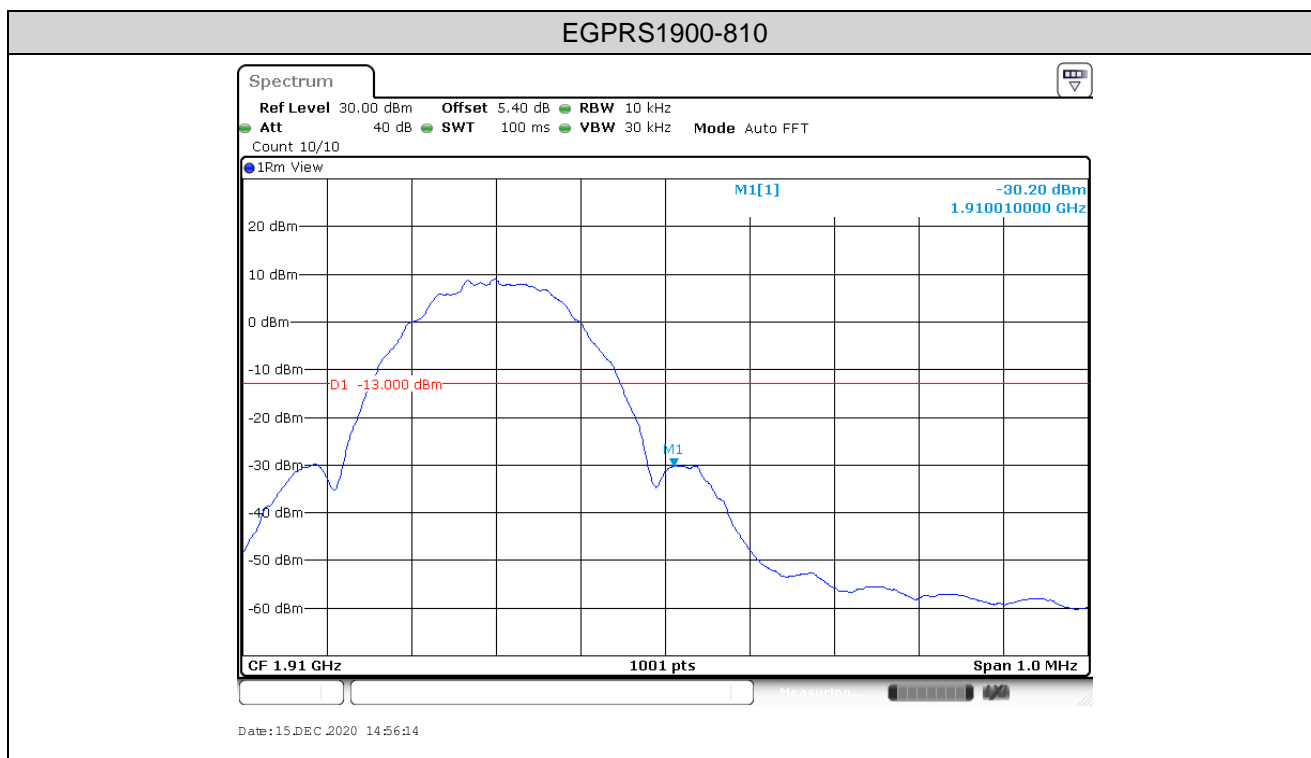
Date: 15 DEC 2020 14:48:09

EGPRS1900-512



Date: 15 DEC 2020 14:56:02





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 Shenzhen Branch Testing Centre EEC Laboratory

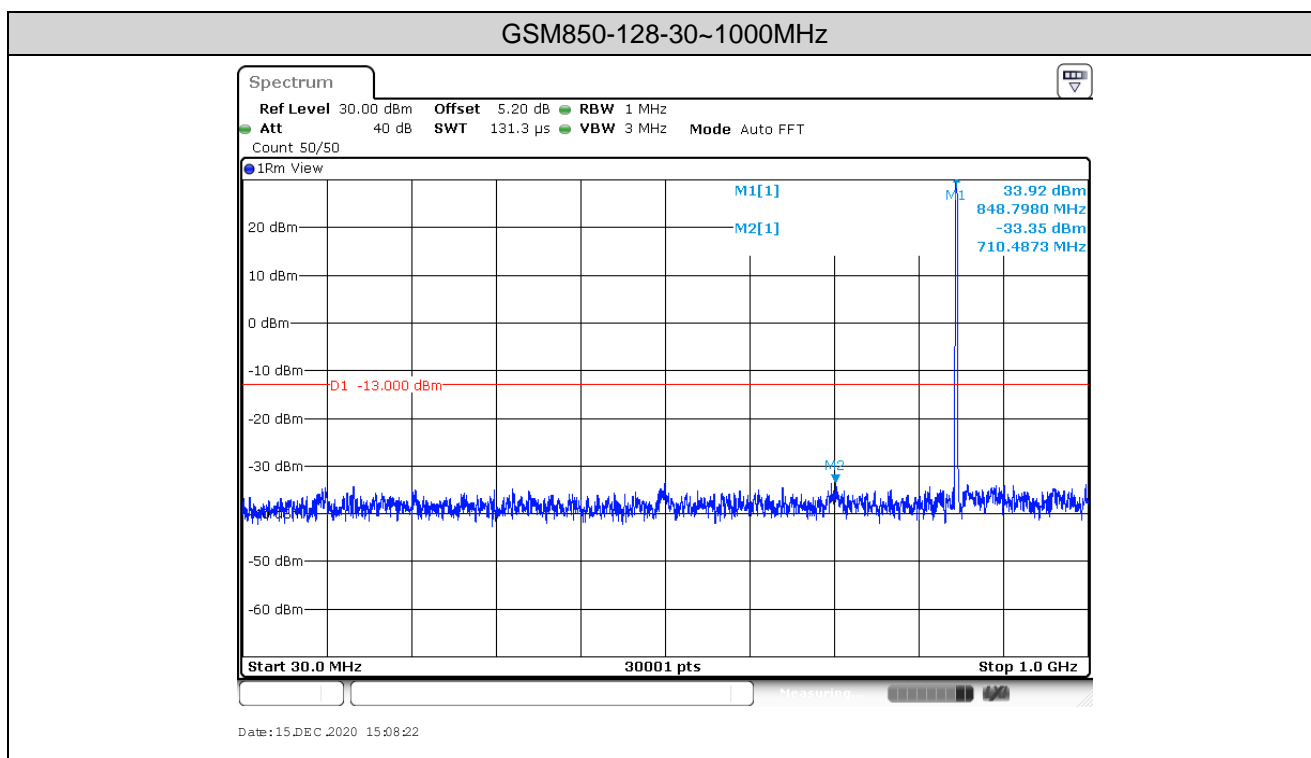
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6. Spurious Emission at Antenna Terminal

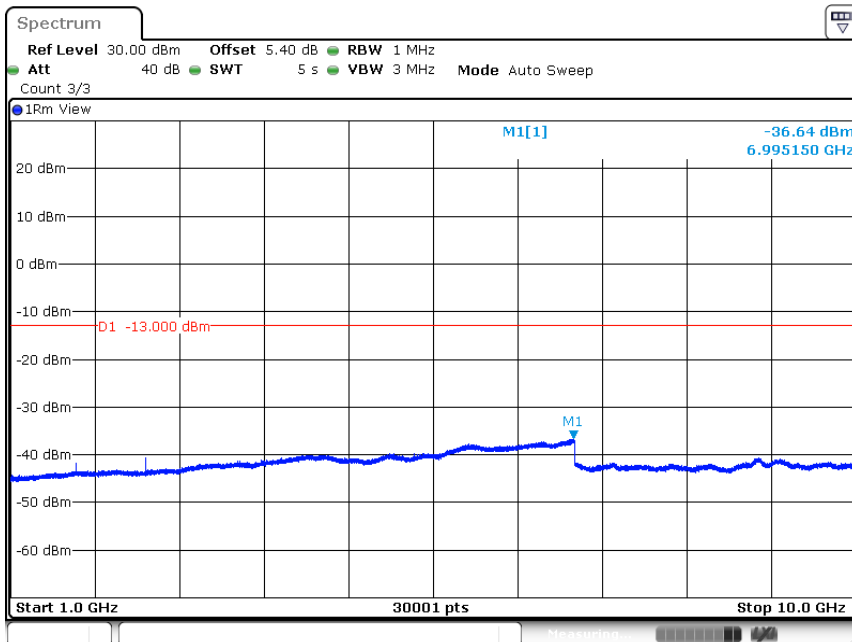
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

6.1. Test Plots

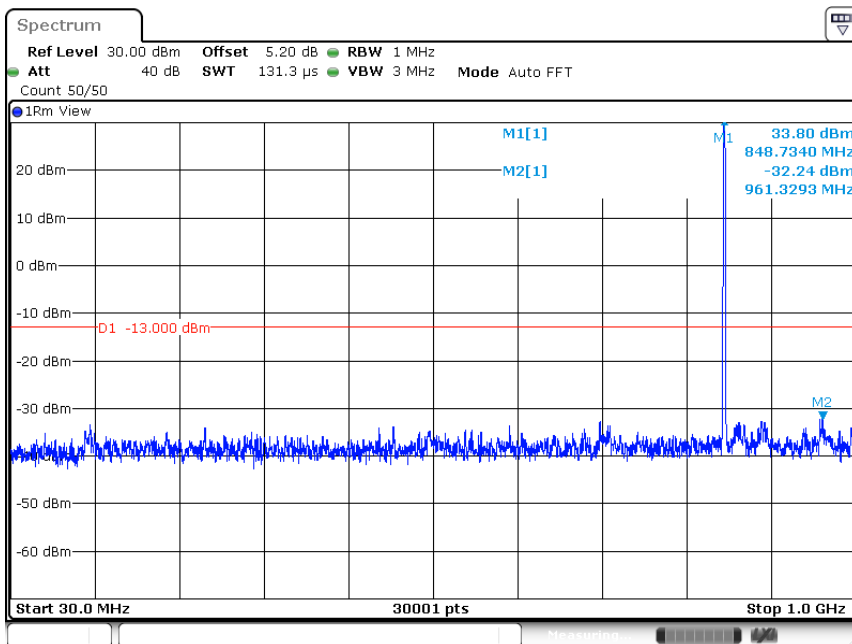


GSM850-128-1000~10000MHz



Date: 15 DEC 2020 15:08:46

GSM850-190-30~1000MHz



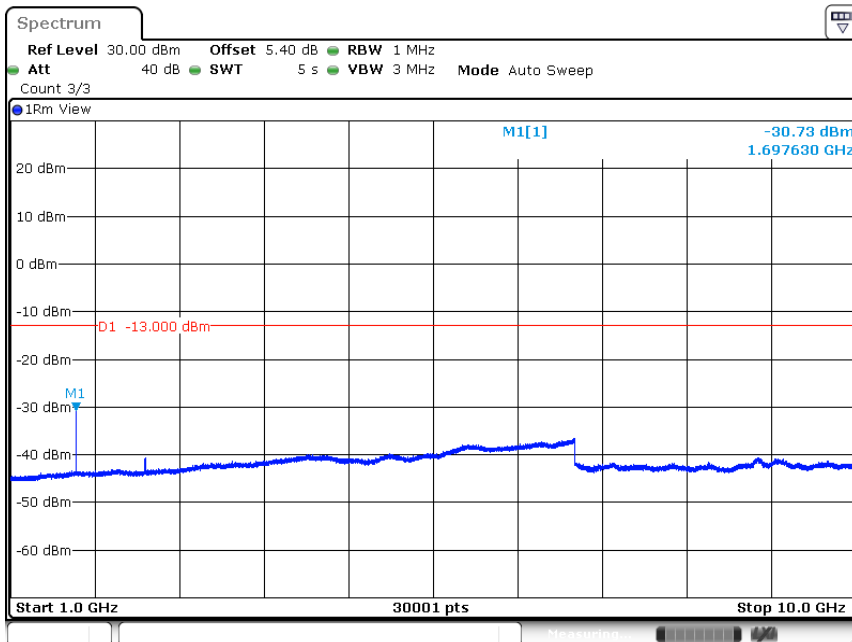
Date: 15 DEC 2020 15:08:57



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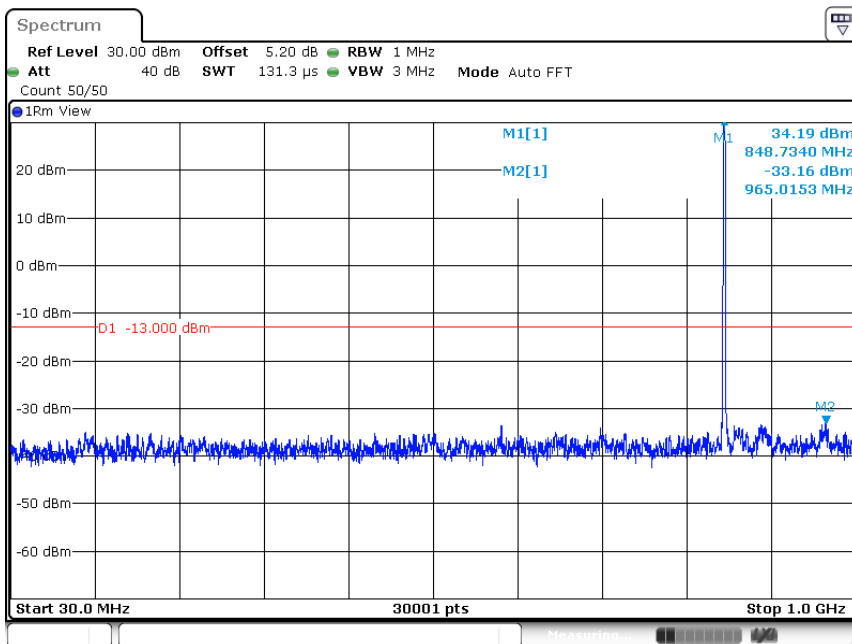
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GSM850-190-1000~10000MHz



Date: 15 DEC 2020 15:09:21

GSM850-251-30~1000MHz



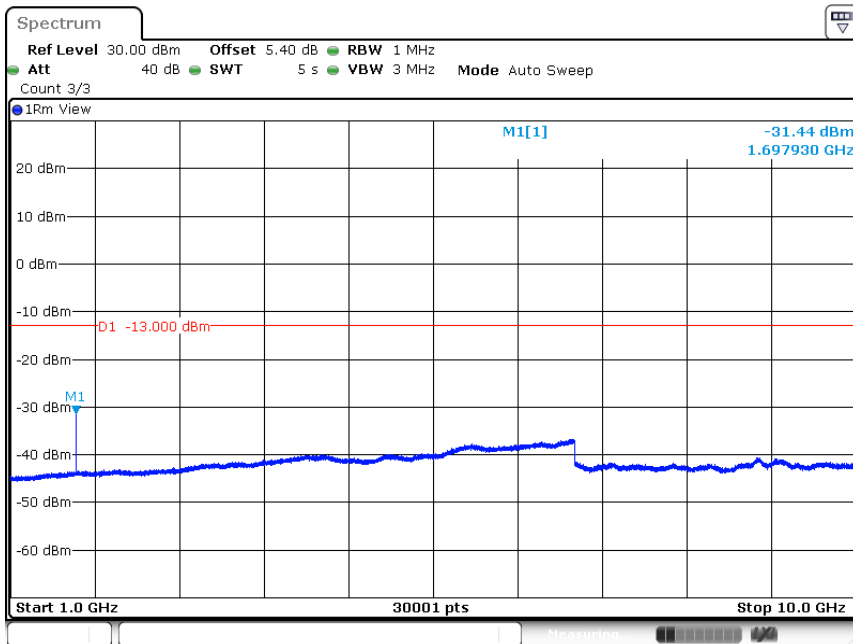
Date: 15 DEC 2020 15:09:33



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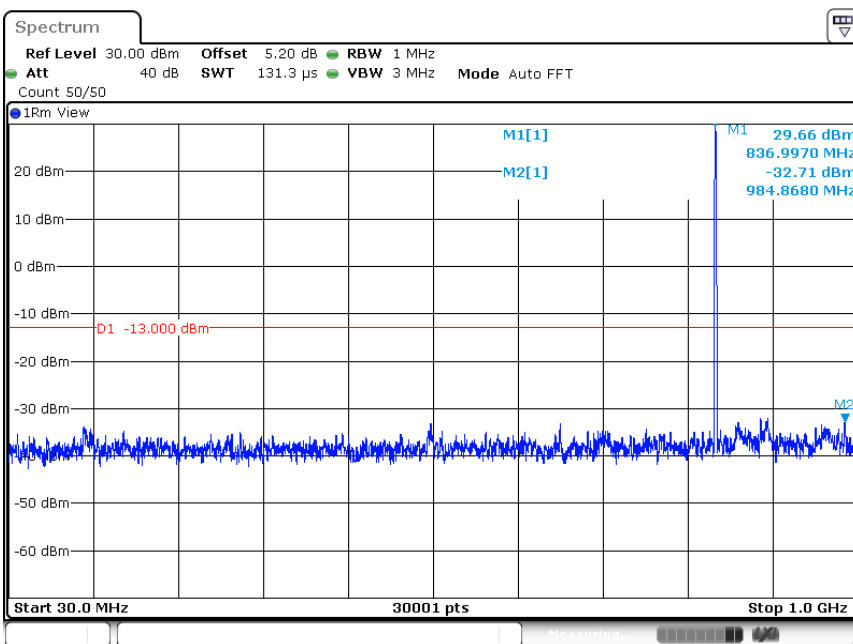
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GSM850-251-1000~10000MHz



Date: 15 DEC 2020 15:09:57

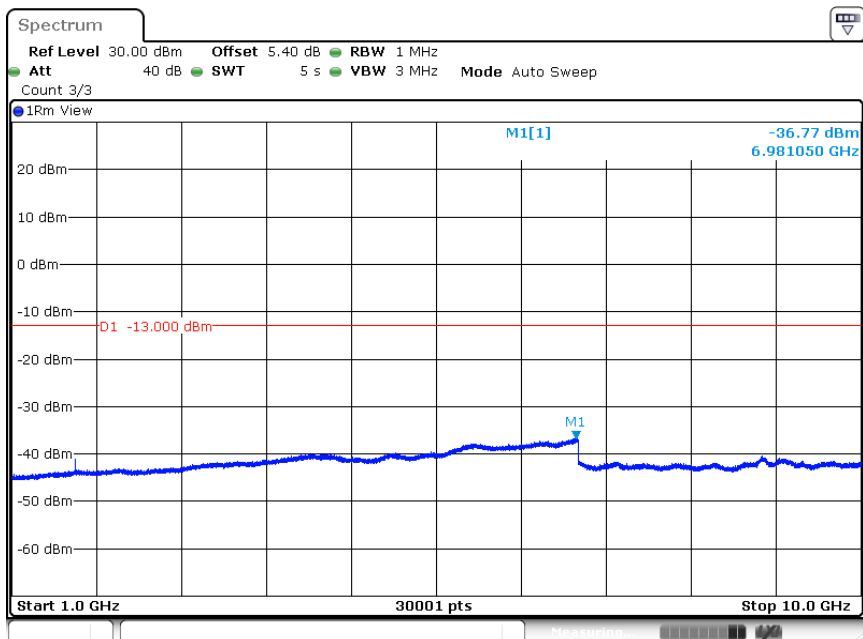
EGPRS850-128-30~1000MHz



Date: 15 DEC 2020 15:23:03

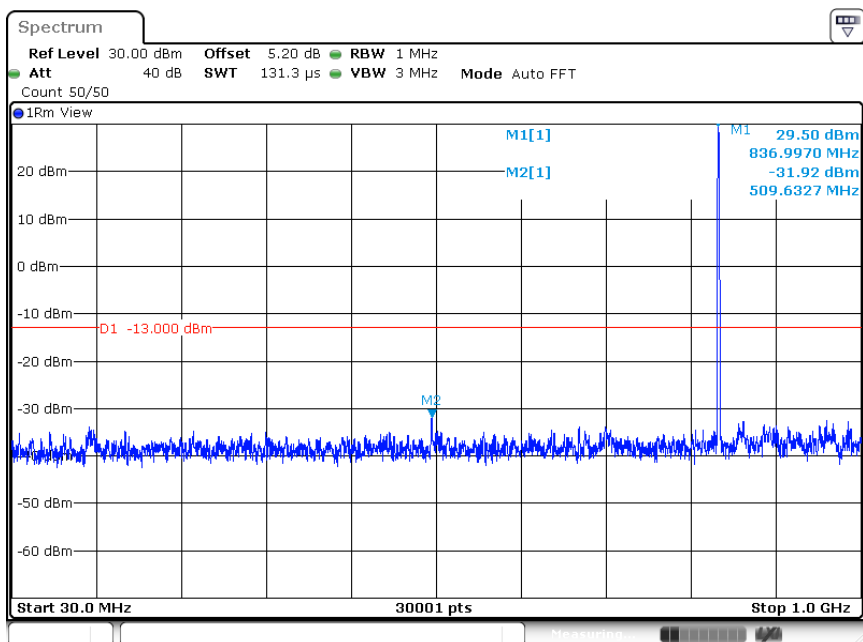


EGPRS850-128-1000~10000MHz



Date: 15 DEC 2020 15:23:27

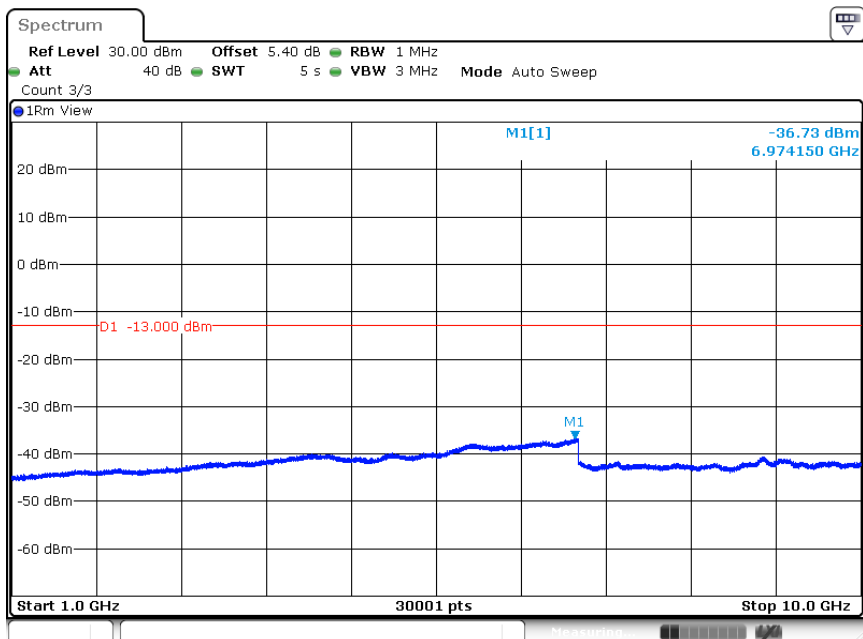
EGPRS850-190-30~1000MHz



Date: 15 DEC 2020 15:23:39

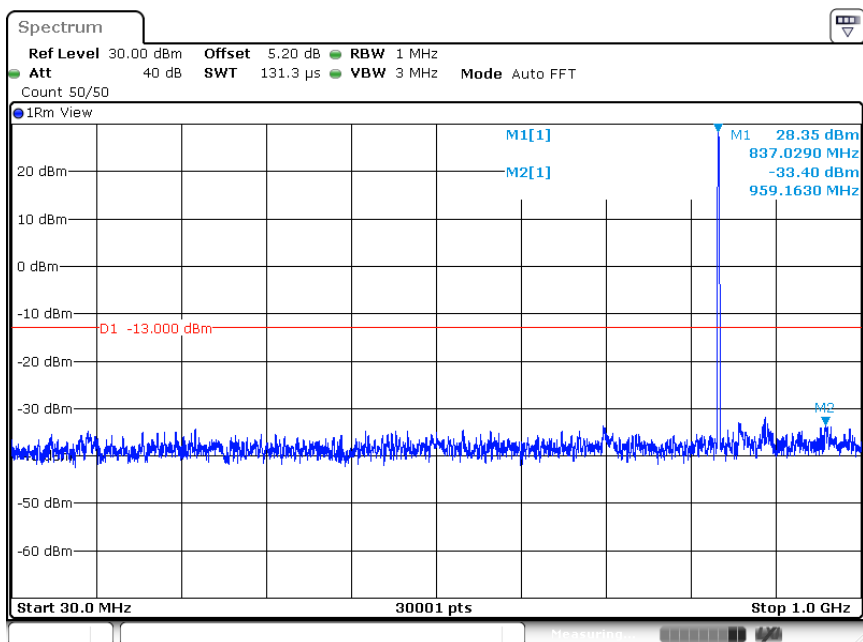


EGPRS850-190-1000~10000MHz



Date: 15 DEC 2020 15:24:03

EGPRS850-251-30~1000MHz



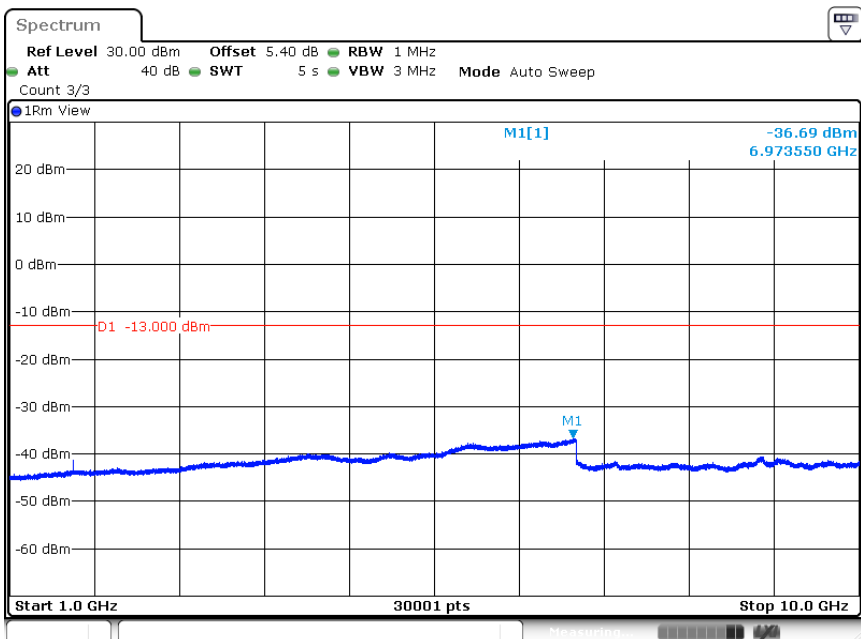
Date: 15 DEC 2020 15:24:15



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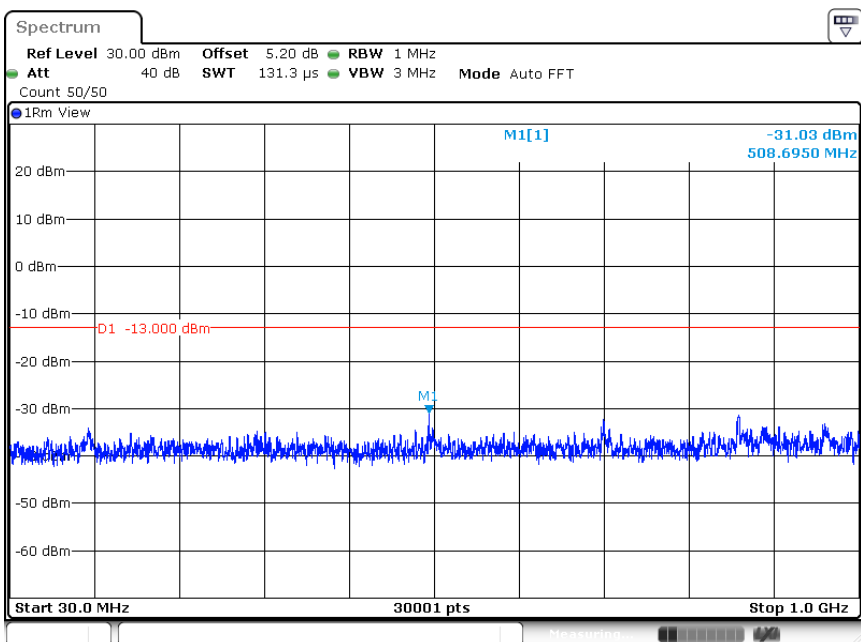
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EGPRS850-251-1000~10000MHz



Date: 15 DEC 2020 15:24:39

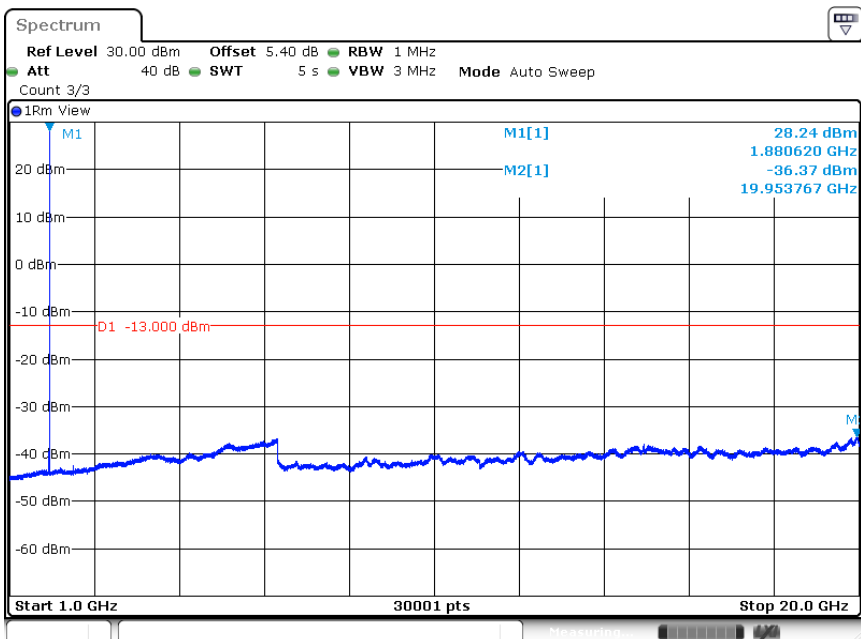
GSM1900-512-30~1000MHz



Date: 15 DEC 2020 14:50:45

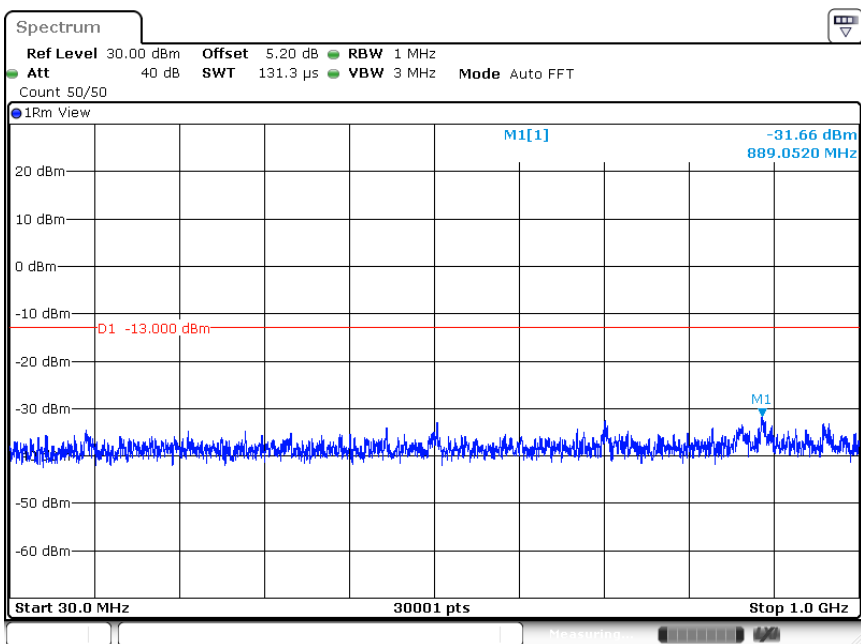


GSM1900-512-1000~20000MHz



Date: 15 DEC 2020 14:51:11

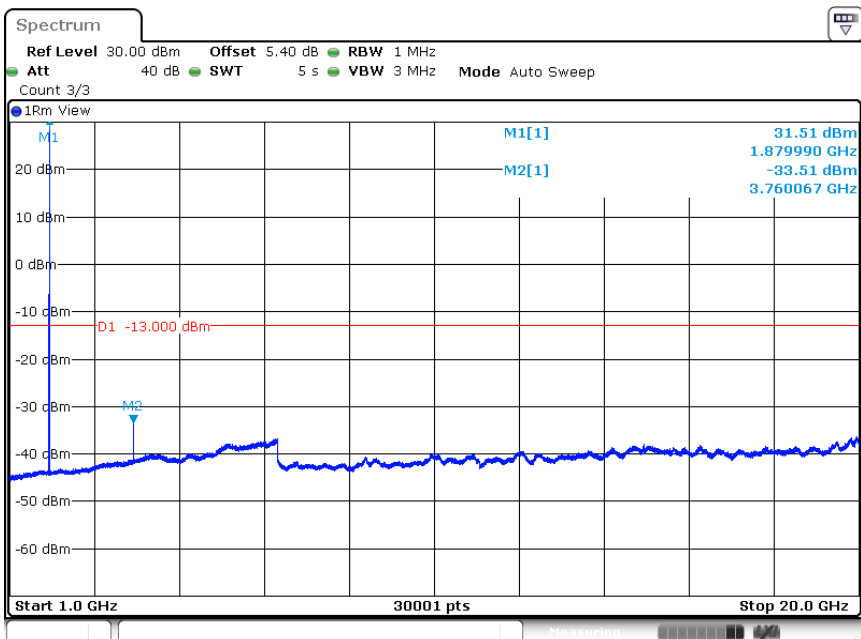
GSM1900-661-30~1000MHz



Date: 15 DEC 2020 14:51:21

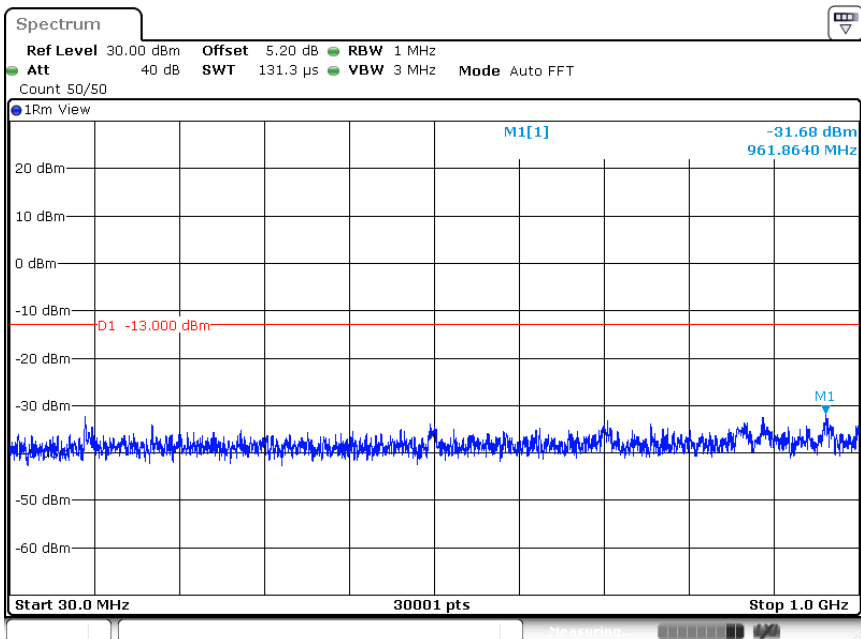


GSM1900-661-1000~20000MHz



Date: 15 DEC 2020 14:51:46

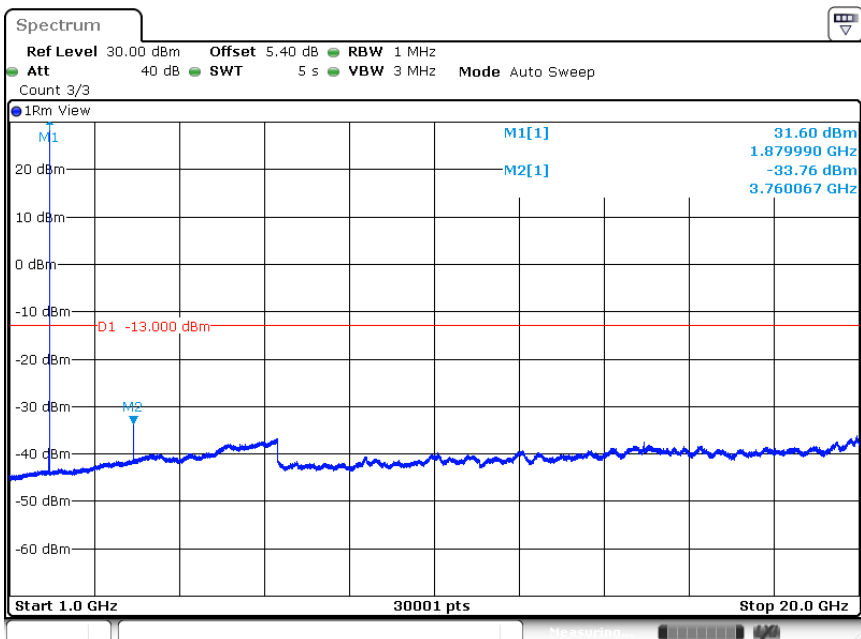
GSM1900-810-30~1000MHz



Date: 15 DEC 2020 14:51:56

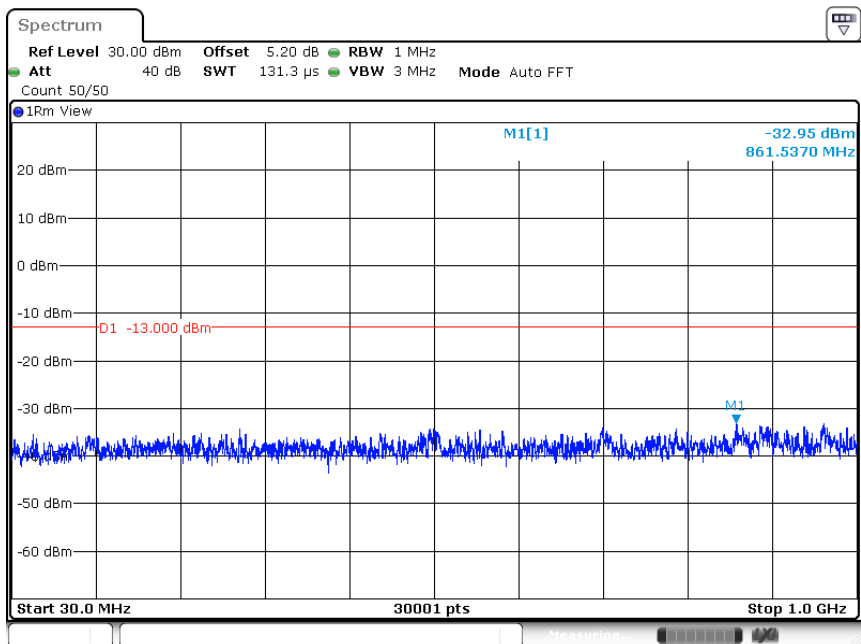


GSM1900-810-1000~20000MHz



Date: 15 DEC 2020 14:52:21

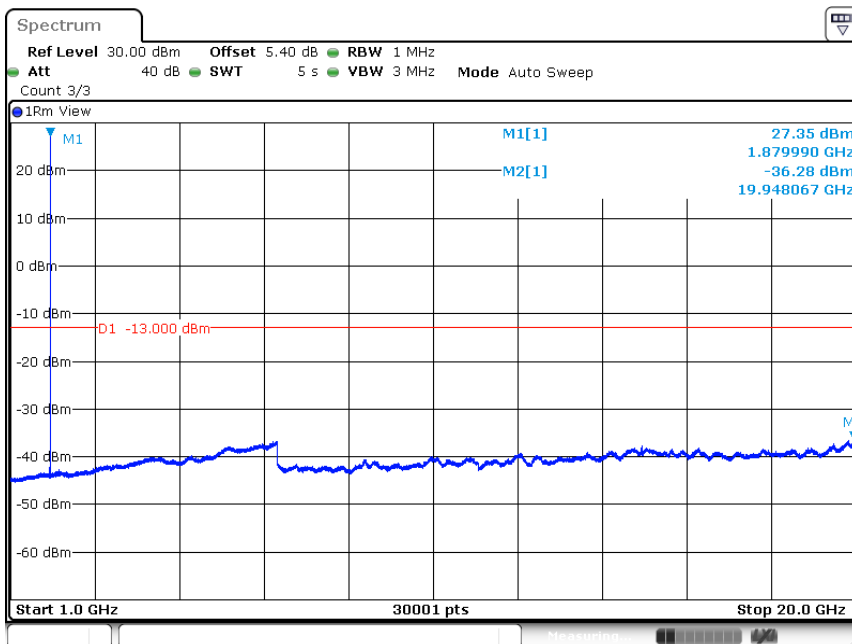
EGPRS1900-512-30~1000MHz



Date: 15 DEC 2020 14:58:36

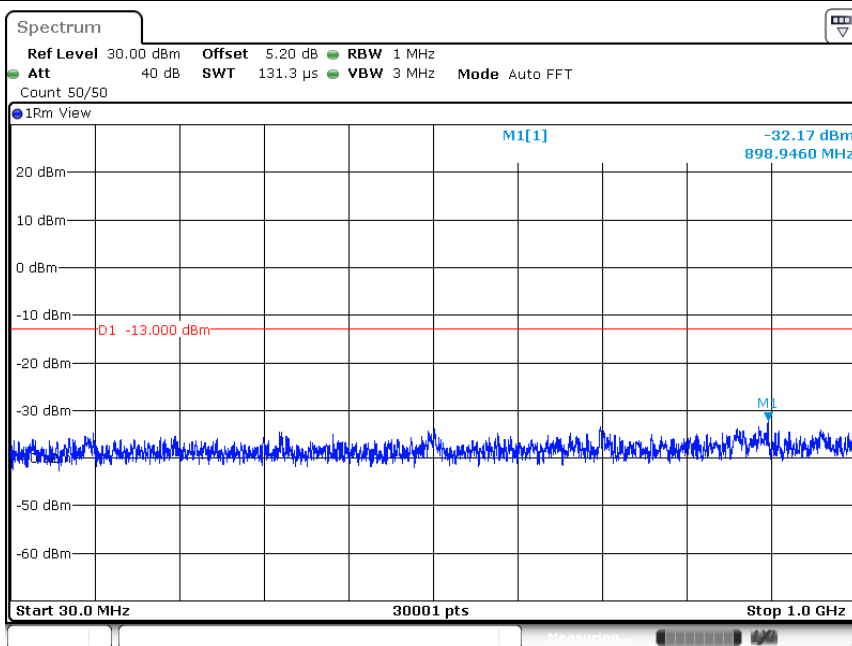


EGPRS1900-512-1000~20000MHz



Date: 15 DEC 2020 14:59:19

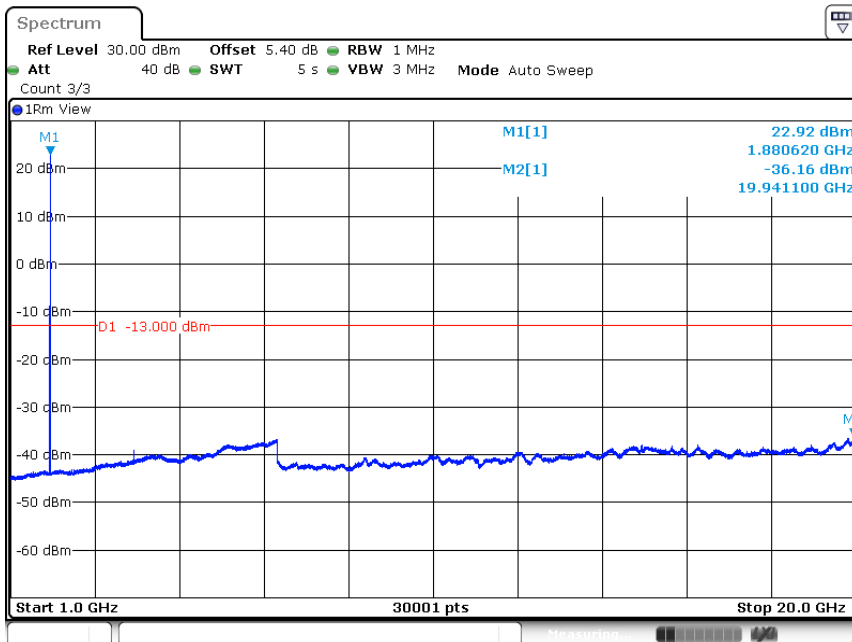
EGPRS1900-661-30~1000MHz



Date: 15 DEC 2020 14:59:30

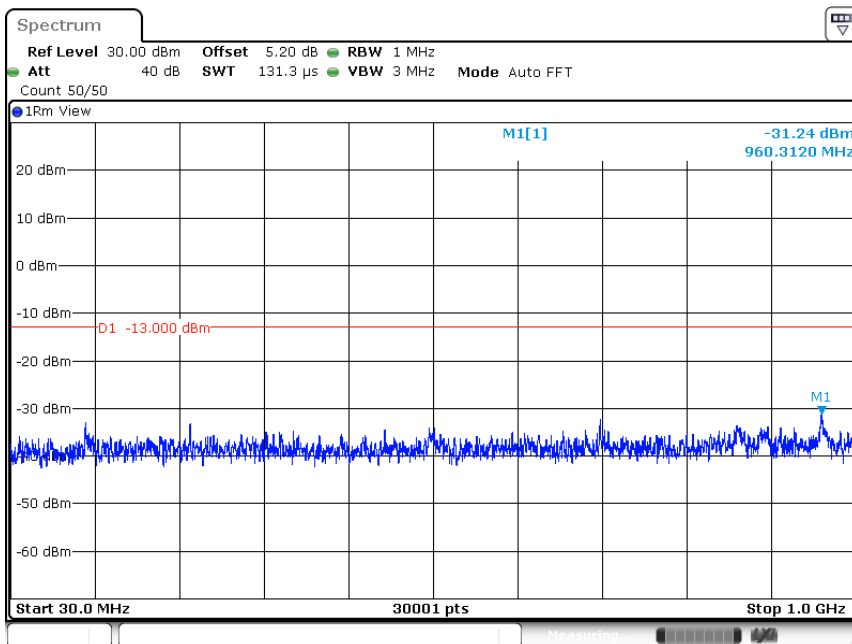


EGPRS1900-661-1000~20000MHz



Date: 15 DEC 2020 15:00:23

EGPRS1900-810-30~1000MHz

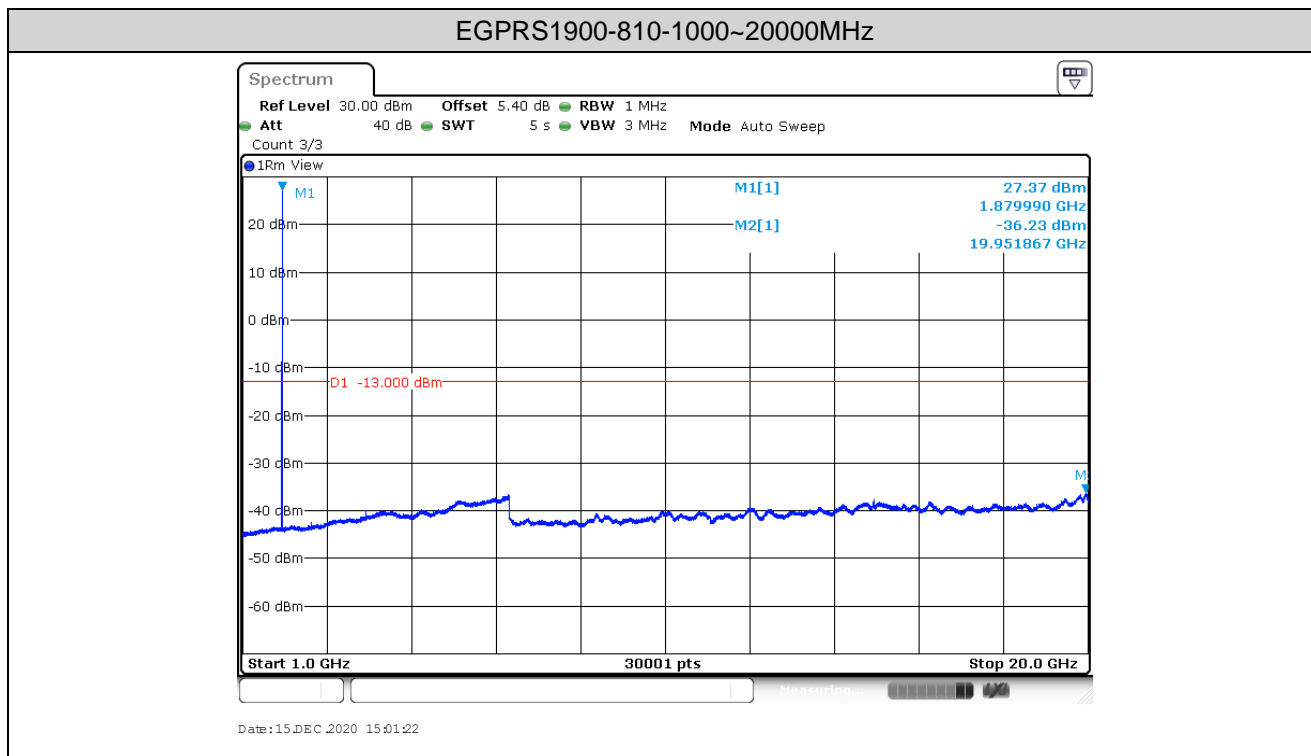


Date: 15 DEC 2020 15:00:34



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7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 1900(ANT4)

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
50.127500	-73.29	-13.00	60.29	178	84	Vertical
90.964500	-75.09	-13.00	62.09	226	180	Vertical
317.120000	-75.30	-13.00	62.30	207	170	Vertical
3700.350000	-51.88	-13.00	38.88	194	77	Vertical
5550.450000	-50.36	-13.00	37.36	182	12	Vertical
9130.250000	-51.31	-13.00	38.31	281	135	Vertical
59.633500	-71.11	-13.00	58.11	278	112	Horizontal
88.927500	-72.79	-13.00	59.79	284	3	Horizontal
194.172500	-75.10	-13.00	62.10	269	18	Horizontal
3700.000000	-47.95	-13.00	34.96	264	5	Horizontal
5550.450000	-46.59	-13.00	33.59	166	178	Horizontal
9207.250000	-51.32	-13.00	38.32	207	33	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
50.467000	-74.11	-13.00	61.11	185	178	Vertical
90.479500	-74.75	-13.00	61.75	222	13	Vertical
312.221500	-74.33	-13.00	61.33	207	169	Vertical
3897.400000	-55.45	-13.00	42.45	195	164	Vertical
5640.050000	-50.09	-13.00	37.09	191	134	Vertical
9255.900000	-50.85	-13.00	37.85	281	61	Vertical
61.719000	-70.85	-13.00	57.85	270	149	Horizontal
90.091500	-72.56	-13.00	59.56	289	149	Horizontal
189.759000	-74.73	-13.00	61.73	270	1	Horizontal
3759.850000	-51.64	-13.00	38.64	264	61	Horizontal
5640.050000	-51.56	-13.00	38.56	164	10	Horizontal
8452.300000	-52.32	-13.00	39.32	205	0	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
49.885000	-74.00	-13.00	61.00	179	170	Vertical
104.302000	-74.98	-13.00	61.98	210	121	Vertical
315.810500	-73.69	-13.00	60.69	205	156	Vertical
3819.700000	-53.73	-13.00	40.73	190	104	Vertical
5729.300000	-49.26	-13.00	36.26	187	135	Vertical
9443.500000	-51.50	-13.00	38.50	276	90	Vertical
59.682000	-71.15	-13.00	58.15	270	97	Horizontal
191.359500	-74.38	-13.00	61.38	295	178	Horizontal
466.500000	-75.78	-13.00	62.78	262	162	Horizontal
3819.350000	-51.89	-13.00	38.89	265	25	Horizontal
5729.300000	-48.59	-13.00	35.59	173	90	Horizontal
9242.600000	-50.68	-13.00	37.68	198	54	Horizontal

7.2. Test Band = GSM 850(ANT1)

7.2.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
50.370000	-72.59	-13.00	59.59	182	180	Vertical
90.479500	-75.90	-13.00	62.90	216	178	Vertical
322.018500	-75.20	-13.00	62.20	213	126	Vertical
1523.925000	-53.69	-13.00	40.69	192	134	Vertical
2561.625000	-46.34	-13.00	33.34	191	92	Vertical
4836.100000	-55.49	-13.00	42.49	282	97	Vertical
62.543500	-69.57	-13.00	56.57	283	12	Horizontal
90.528000	-71.92	-13.00	58.92	277	180	Horizontal
205.764000	-74.23	-13.00	61.23	254	12	Horizontal
1495.875000	-54.44	-13.00	41.44	283	43	Horizontal
2472.900000	-45.76	-13.00	32.76	170	144	Horizontal
4308.650000	-55.03	-13.00	42.03	207	105	Horizontal



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7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
50.030500	-73.51	-13.00	60.51	183	133	Vertical
90.479500	-76.73	-13.00	63.73	213	31	Vertical
311.542500	-75.37	-13.00	62.37	212	180	Vertical
1557.825000	-54.41	-13.00	41.41	188	34	Vertical
2616.825000	-46.65	-13.00	33.65	179	142	Vertical
4422.750000	-55.98	-13.00	42.98	277	83	Vertical
61.040000	-68.08	-13.00	55.08	272	135	Horizontal
91.110000	-72.29	-13.00	59.29	286	180	Horizontal
203.678500	-75.36	-13.00	62.36	251	20	Horizontal
1458.425000	-54.10	-13.00	41.10	265	24	Horizontal
2372.250000	-46.79	-13.00	33.79	176	156	Horizontal
4334.200000	-55.08	-13.00	42.08	212	148	Horizontal

7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
50.176000	-74.61	-13.00	61.61	176	128	Vertical
104.302000	-75.91	-13.00	62.91	223	180	Vertical
319.060000	-75.02	-13.00	62.02	200	121	Vertical
1699.800000	-52.13	-13.00	39.13	201	171	Vertical
2426.100000	-46.15	-13.00	33.15	178	157	Vertical
4495.900000	-55.98	-13.00	42.98	274	180	Vertical
59.973000	-71.16	-13.00	58.16	285	71	Horizontal
89.364000	-72.37	-13.00	59.37	284	1	Horizontal
192.184000	-73.62	-13.00	60.62	271	14	Horizontal
1469.325000	-53.94	-13.00	40.94	284	162	Horizontal
2391.750000	-46.51	-13.00	33.51	181	28	Horizontal
4482.250000	-55.02	-13.00	42.02	211	77	Horizontal



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7.3. Test Band = GSM 1900(ANT3)

7.3.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
50.030500	-74.52	-13.00	61.52	175	207	Vertical
89.752000	-72.00	-13.00	59.00	206	235	Vertical
319.157000	-74.40	-13.00	61.40	207	207	Vertical
4246.700000	-56.03	-13.00	43.03	204	301	Vertical
5550.450000	-51.28	-13.00	38.28	177	141	Vertical
9215.300000	-50.05	-13.00	37.05	281	133	Vertical
60.700500	-70.77	-13.00	57.77	270	204	Horizontal
89.655000	-69.27	-13.00	56.27	290	320	Horizontal
192.087000	-74.20	-13.00	61.20	262	190	Horizontal
4228.500000	-54.75	-13.00	41.75	281	194	Horizontal
5550.450000	-51.13	-13.00	38.13	183	187	Horizontal
9242.600000	-51.00	-13.00	38.00	200	230	Horizontal

7.3.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
49.594000	-73.06	-13.00	60.06	186	151	Vertical
90.091500	-70.28	-13.00	57.28	222	239	Vertical
315.956000	-74.27	-13.00	61.27	200	295	Vertical
3759.850000	-55.19	-13.00	42.19	202	293	Vertical
5639.700000	-46.69	-13.00	33.69	181	352	Vertical
9206.550000	-50.82	-13.00	37.82	282	29	Vertical
89.218500	-69.25	-13.00	56.25	275	330	Horizontal
185.685000	-74.98	-13.00	61.98	291	181	Horizontal
454.666000	-75.80	-13.00	62.80	259	317	Horizontal
4004.150000	-56.36	-13.00	43.36	281	72	Horizontal
5640.050000	-47.20	-13.00	34.20	183	252	Horizontal
9106.100000	-50.98	-13.00	37.98	212	336	Horizontal



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7.3.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
49.691000	-74.07	-13.00	61.07	173	161	Vertical
90.528000	-71.13	-13.00	58.13	225	249	Vertical
316.732000	-73.51	-13.00	60.51	204	282	Vertical
4306.200000	-55.08	-13.00	42.08	185	336	Vertical
5728.950000	-51.27	-13.00	38.27	194	198	Vertical
9095.600000	-51.36	-13.00	38.36	281	63	Vertical
60.215500	-70.92	-13.00	57.92	281	27	Horizontal
89.267000	-71.97	-13.00	58.97	282	359	Horizontal
192.911500	-74.48	-13.00	61.48	261	201	Horizontal
3819.000000	-55.96	-13.00	42.96	268	183	Horizontal
6074.400000	-53.24	-13.00	40.24	177	119	Horizontal
9082.300000	-51.67	-13.00	38.67	200	1	Horizontal

7.4. Test Band = GSM 850(ANT0)

7.4.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
49.497000	-73.30	-13.00	60.30	188	201	Vertical
90.528000	-72.35	-13.00	59.35	221	243	Vertical
313.870500	-74.05	-13.00	61.05	195	185	Vertical
1524.600000	-54.39	-13.00	41.39	188	298	Vertical
2544.000000	-46.47	-13.00	33.47	185	0	Vertical
4872.500000	-55.17	-13.00	42.17	269	342	Vertical
59.100000	-71.52	-13.00	58.52	288	156	Horizontal
90.285500	-70.84	-13.00	57.84	294	314	Horizontal
194.221000	-74.63	-13.00	61.63	270	335	Horizontal
1456.900000	-54.82	-13.00	41.82	279	23	Horizontal
2659.425000	-46.14	-13.00	33.14	165	230	Horizontal
4403.150000	-54.77	-13.00	41.77	208	330	Horizontal



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7.4.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
50.758000	-74.22	-13.00	61.22	173	139	Vertical
89.703500	-71.69	-13.00	58.69	220	241	Vertical
312.124500	-74.71	-13.00	61.71	195	322	Vertical
1629.675000	-52.90	-13.00	39.90	205	201	Vertical
2573.175000	-45.89	-13.00	32.89	193	228	Vertical
4243.550000	-54.77	-13.00	41.77	286	88	Vertical
59.536500	-70.71	-13.00	57.71	271	349	Horizontal
89.170000	-70.18	-13.00	57.18	280	321	Horizontal
195.142500	-73.67	-13.00	60.67	271	0	Horizontal
1444.900000	-54.77	-13.00	41.77	280	73	Horizontal
2366.625000	-46.61	-13.00	33.61	168	270	Horizontal
4289.400000	-54.95	-13.00	41.95	211	0	Horizontal

7.4.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
49.933500	-73.32	-13.00	60.32	188	180	Vertical
89.994500	-75.17	-13.00	62.17	221	180	Vertical
316.732000	-75.14	-13.00	62.14	195	142	Vertical
1520.625000	-54.81	-13.00	41.81	188	21	Vertical
2258.100000	-47.65	-13.00	34.65	185	109	Vertical
4507.800000	-55.90	-13.00	42.90	269	15	Vertical
59.585000	-70.79	-13.00	57.79	288	116	Horizontal
89.655000	-72.34	-13.00	59.34	294	0	Horizontal
200.235000	-74.77	-13.00	61.77	270	0	Horizontal
1601.925000	-52.51	-13.00	39.51	279	124	Horizontal
2546.625000	-45.53	-13.00	32.53	165	151	Horizontal
4202.600000	-54.58	-13.00	41.58	208	104	Horizontal

Remark:

- 1) According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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8. Frequency Stability

8.1. Frequency Error Vs Voltage

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	NT	15.69	0.019037	±2.5	PASS
GSM850	128	VN	NT	20.92	0.025382	±2.5	PASS
GSM850	128	VH	NT	23.18	0.028124	±2.5	PASS
GSM850	190	VL	NT	17.89	0.021384	±2.5	PASS
GSM850	190	VN	NT	18.76	0.022424	±2.5	PASS
GSM850	190	VH	NT	15.50	0.018527	±2.5	PASS
GSM850	251	VL	NT	17.95	0.021148	±2.5	PASS
GSM850	251	VN	NT	15.98	0.018827	±2.5	PASS
GSM850	251	VH	NT	21.47	0.025295	±2.5	PASS
EGPRS850	128	VL	NT	33.09	0.040148	±2.5	PASS
EGPRS850	128	VN	NT	32.54	0.039481	±2.5	PASS
EGPRS850	128	VH	NT	34.87	0.042308	±2.5	PASS
EGPRS850	190	VL	NT	34.64	0.041406	±2.5	PASS
EGPRS850	190	VN	NT	31.25	0.037354	±2.5	PASS
EGPRS850	190	VH	NT	28.15	0.033648	±2.5	PASS
EGPRS850	251	VL	NT	33.00	0.038878	±2.5	PASS
EGPRS850	251	VN	NT	31.28	0.036852	±2.5	PASS
EGPRS850	251	VH	NT	33.84	0.039868	±2.5	PASS
GSM1900	512	VL	NT	18.31	0.009896	±2.5	PASS
GSM1900	512	VN	NT	29.44	0.015912	±2.5	PASS
GSM1900	512	VH	NT	21.86	0.011815	±2.5	PASS
GSM1900	661	VL	NT	25.41	0.013516	±2.5	PASS
GSM1900	661	VN	NT	19.05	0.010133	±2.5	PASS
GSM1900	661	VH	NT	19.05	0.010133	±2.5	PASS
GSM1900	810	VL	NT	11.04	0.005781	±2.5	PASS
GSM1900	810	VN	NT	23.54	0.012326	±2.5	PASS
GSM1900	810	VH	NT	22.89	0.011986	±2.5	PASS
EGPRS1900	512	VL	NT	27.15	0.014674	±2.5	PASS
EGPRS1900	512	VN	NT	34.45	0.018620	±2.5	PASS
EGPRS1900	512	VH	NT	37.13	0.020068	±2.5	PASS



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EGPRS1900	661	VL	NT	21.28	0.011319	±2.5	PASS
EGPRS1900	661	VN	NT	40.03	0.021293	±2.5	PASS
EGPRS1900	661	VH	NT	40.62	0.021606	±2.5	PASS
EGPRS1900	810	VL	NT	29.90	0.015656	±2.5	PASS
EGPRS1900	810	VN	NT	31.51	0.016499	±2.5	PASS
EGPRS1900	810	VH	NT	24.60	0.012881	±2.5	PASS

8.2.Frequency Error Vs Temperature

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	19.44	0.023587	±2.5	PASS
GSM850	128	NV	-20	21.11	0.025613	±2.5	PASS
GSM850	128	NV	-10	25.89	0.031412	±2.5	PASS
GSM850	128	NV	0	16.34	0.019825	±2.5	PASS
GSM850	128	NV	10	17.95	0.021779	±2.5	PASS
GSM850	128	NV	20	18.08	0.021936	±2.5	PASS
GSM850	128	NV	30	21.63	0.026244	±2.5	PASS
GSM850	128	NV	40	21.08	0.025576	±2.5	PASS
GSM850	128	NV	50	19.76	0.023975	±2.5	PASS
GSM850	190	NV	-30	13.88	0.016591	±2.5	PASS
GSM850	190	NV	-20	12.62	0.015085	±2.5	PASS
GSM850	190	NV	-10	22.54	0.026942	±2.5	PASS
GSM850	190	NV	0	10.59	0.012658	±2.5	PASS
GSM850	190	NV	10	20.15	0.024086	±2.5	PASS
GSM850	190	NV	20	18.50	0.022113	±2.5	PASS
GSM850	190	NV	30	14.59	0.017440	±2.5	PASS
GSM850	190	NV	40	12.33	0.014738	±2.5	PASS
GSM850	190	NV	50	9.81	0.011726	±2.5	PASS
GSM850	251	NV	-30	18.56	0.021866	±2.5	PASS
GSM850	251	NV	-20	18.31	0.021572	±2.5	PASS
GSM850	251	NV	-10	15.88	0.018709	±2.5	PASS
GSM850	251	NV	0	23.15	0.027274	±2.5	PASS
GSM850	251	NV	10	21.86	0.025754	±2.5	PASS
GSM850	251	NV	20	20.66	0.024340	±2.5	PASS
GSM850	251	NV	30	19.76	0.023280	±2.5	PASS
GSM850	251	NV	40	17.98	0.021183	±2.5	PASS



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GSM850	251	NV	50	17.01	0.020040	±2.5	PASS
EGPRS850	128	NV	-30	34.87	0.042308	±2.5	PASS
EGPRS850	128	NV	-20	35.90	0.043557	±2.5	PASS
EGPRS850	128	NV	-10	36.55	0.044346	±2.5	PASS
EGPRS850	128	NV	0	35.51	0.043084	±2.5	PASS
EGPRS850	128	NV	10	35.19	0.042696	±2.5	PASS
EGPRS850	128	NV	20	33.74	0.040937	±2.5	PASS
EGPRS850	128	NV	30	31.06	0.037685	±2.5	PASS
EGPRS850	128	NV	40	30.93	0.037527	±2.5	PASS
EGPRS850	128	NV	50	34.58	0.041956	±2.5	PASS
EGPRS850	190	NV	-30	31.77	0.037975	±2.5	PASS
EGPRS850	190	NV	-20	31.06	0.037126	±2.5	PASS
EGPRS850	190	NV	-10	25.76	0.030791	±2.5	PASS
EGPRS850	190	NV	0	31.83	0.038047	±2.5	PASS
EGPRS850	190	NV	10	27.80	0.033230	±2.5	PASS
EGPRS850	190	NV	20	32.12	0.038393	±2.5	PASS
EGPRS850	190	NV	30	26.25	0.031377	±2.5	PASS
EGPRS850	190	NV	40	32.12	0.038393	±2.5	PASS
EGPRS850	190	NV	50	25.25	0.030182	±2.5	PASS
EGPRS850	251	NV	-30	36.84	0.043402	±2.5	PASS
EGPRS850	251	NV	-20	32.25	0.037995	±2.5	PASS
EGPRS850	251	NV	-10	35.55	0.041883	±2.5	PASS
EGPRS850	251	NV	0	30.15	0.035521	±2.5	PASS
EGPRS850	251	NV	10	35.42	0.041730	±2.5	PASS
EGPRS850	251	NV	20	30.12	0.035485	±2.5	PASS
EGPRS850	251	NV	30	33.19	0.039102	±2.5	PASS
EGPRS850	251	NV	40	27.70	0.032634	±2.5	PASS
EGPRS850	251	NV	50	32.29	0.038042	±2.5	PASS
GSM1900	512	NV	-30	23.89	0.012912	±2.5	PASS
GSM1900	512	NV	-20	25.54	0.013804	±2.5	PASS
GSM1900	512	NV	-10	26.02	0.014063	±2.5	PASS
GSM1900	512	NV	0	25.12	0.013577	±2.5	PASS
GSM1900	512	NV	10	26.28	0.014204	±2.5	PASS
GSM1900	512	NV	20	25.41	0.013734	±2.5	PASS
GSM1900	512	NV	30	26.25	0.014188	±2.5	PASS
GSM1900	512	NV	40	26.70	0.014431	±2.5	PASS
GSM1900	512	NV	50	25.99	0.014047	±2.5	PASS



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GSM1900	661	NV	-30	19.57	0.010410	±2.5	PASS
GSM1900	661	NV	-20	31.61	0.016814	±2.5	PASS
GSM1900	661	NV	-10	28.41	0.015112	±2.5	PASS
GSM1900	661	NV	0	24.31	0.012931	±2.5	PASS
GSM1900	661	NV	10	19.69	0.010473	±2.5	PASS
GSM1900	661	NV	20	27.64	0.014702	±2.5	PASS
GSM1900	661	NV	30	33.71	0.017931	±2.5	PASS
GSM1900	661	NV	40	28.51	0.015165	±2.5	PASS
GSM1900	661	NV	50	27.54	0.014649	±2.5	PASS
GSM1900	810	NV	-30	12.69	0.006645	±2.5	PASS
GSM1900	810	NV	-20	25.76	0.013488	±2.5	PASS
GSM1900	810	NV	-10	23.63	0.012373	±2.5	PASS
GSM1900	810	NV	0	22.89	0.011986	±2.5	PASS
GSM1900	810	NV	10	22.08	0.011561	±2.5	PASS
GSM1900	810	NV	20	20.57	0.010771	±2.5	PASS
GSM1900	810	NV	30	17.18	0.008996	±2.5	PASS
GSM1900	810	NV	40	15.98	0.008367	±2.5	PASS
GSM1900	810	NV	50	15.76	0.008252	±2.5	PASS
EGPRS1900	512	NV	-30	28.12	0.015198	±2.5	PASS
EGPRS1900	512	NV	-20	20.89	0.011291	±2.5	PASS
EGPRS1900	512	NV	-10	29.38	0.015879	±2.5	PASS
EGPRS1900	512	NV	0	35.81	0.019355	±2.5	PASS
EGPRS1900	512	NV	10	30.41	0.016436	±2.5	PASS
EGPRS1900	512	NV	20	39.00	0.021079	±2.5	PASS
EGPRS1900	512	NV	30	28.28	0.015285	±2.5	PASS
EGPRS1900	512	NV	40	35.06	0.018949	±2.5	PASS
EGPRS1900	512	NV	50	41.84	0.022614	±2.5	PASS
EGPRS1900	661	NV	-30	21.15	0.011250	±2.5	PASS
EGPRS1900	661	NV	-20	23.21	0.012346	±2.5	PASS
EGPRS1900	661	NV	-10	34.22	0.018202	±2.5	PASS
EGPRS1900	661	NV	0	39.65	0.021090	±2.5	PASS
EGPRS1900	661	NV	10	26.64	0.014170	±2.5	PASS
EGPRS1900	661	NV	20	31.45	0.016729	±2.5	PASS
EGPRS1900	661	NV	30	38.13	0.020282	±2.5	PASS
EGPRS1900	661	NV	40	23.50	0.012500	±2.5	PASS
EGPRS1900	661	NV	50	29.09	0.015473	±2.5	PASS
EGPRS1900	810	NV	-30	27.44	0.014368	±2.5	PASS



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EGPRS1900	810	NV	-20	28.28	0.014808	±2.5	PASS
EGPRS1900	810	NV	-10	31.12	0.016295	±2.5	PASS
EGPRS1900	810	NV	0	34.09	0.017850	±2.5	PASS
EGPRS1900	810	NV	10	20.05	0.010498	±2.5	PASS
EGPRS1900	810	NV	20	24.70	0.012933	±2.5	PASS
EGPRS1900	810	NV	30	27.51	0.014405	±2.5	PASS
EGPRS1900	810	NV	40	33.06	0.017311	±2.5	PASS
EGPRS1900	810	NV	50	16.43	0.008603	±2.5	PASS

The End

