



Appendix B

GSM 850 & 1900



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1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

ANT13:

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	33.05	26.27	38.45	PASS
GSM850	190	---	33.25	26.47	38.45	PASS
GSM850	251	---	33.42	26.64	38.45	PASS
EGPRS850	128	1	26.60	19.82	38.45	PASS
EGPRS850	128	2	24.47	17.69	38.45	PASS
EGPRS850	128	3	23.26	16.48	38.45	PASS
EGPRS850	128	4	22.23	15.45	38.45	PASS
EGPRS850	190	1	26.56	19.78	38.45	PASS
EGPRS850	190	2	24.54	17.76	38.45	PASS
EGPRS850	190	3	23.28	16.5	38.45	PASS
EGPRS850	190	4	22.24	15.46	38.45	PASS
EGPRS850	251	1	26.51	19.73	38.45	PASS
EGPRS850	251	2	24.49	17.71	38.45	PASS
EGPRS850	251	3	23.37	16.59	38.45	PASS
EGPRS850	251	4	22.28	15.5	38.45	PASS

ANT13:

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.74	26.34	33.00	PASS
GSM1900	661	---	29.65	26.25	33.00	PASS
GSM1900	810	---	29.53	26.13	33.00	PASS
EGPRS1900	512	1	25.98	22.58	33.00	PASS
EGPRS1900	512	2	23.80	20.4	33.00	PASS
EGPRS1900	512	3	22.41	19.01	33.00	PASS
EGPRS1900	512	4	21.16	17.76	33.00	PASS
EGPRS1900	661	1	25.94	22.54	33.00	PASS
EGPRS1900	661	2	23.72	20.32	33.00	PASS
EGPRS1900	661	3	22.40	19	33.00	PASS
EGPRS1900	661	4	21.06	17.66	33.00	PASS
EGPRS1900	810	1	25.90	22.5	33.00	PASS
EGPRS1900	810	2	23.71	20.31	33.00	PASS
EGPRS1900	810	3	22.48	19.08	33.00	PASS
EGPRS1900	810	4	21.12	17.72	33.00	PASS



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ANT41:

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.53	26.88	38.45	PASS
GSM850	190	---	32.77	27.12	38.45	PASS
GSM850	251	---	33.00	27.35	38.45	PASS
EGPRS850	128	1	26.13	20.48	38.45	PASS
EGPRS850	128	2	24.08	18.43	38.45	PASS
EGPRS850	128	3	22.67	17.02	38.45	PASS
EGPRS850	128	4	21.71	16.06	38.45	PASS
EGPRS850	190	1	26.08	20.43	38.45	PASS
EGPRS850	190	2	24.00	18.35	38.45	PASS
EGPRS850	190	3	22.77	17.12	38.45	PASS
EGPRS850	190	4	21.75	16.1	38.45	PASS
EGPRS850	251	1	26.13	20.48	38.45	PASS
EGPRS850	251	2	23.91	18.26	38.45	PASS
EGPRS850	251	3	22.76	17.11	38.45	PASS
EGPRS850	251	4	21.65	16	38.45	PASS

ANT31:

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	30.15	29.48	33.00	PASS
GSM1900	661	---	30.20	29.53	33.00	PASS
GSM1900	810	---	30.35	29.68	33.00	PASS
EGPRS1900	512	1	25.92	25.25	33.00	PASS
EGPRS1900	512	2	23.88	23.21	33.00	PASS
EGPRS1900	512	3	22.48	21.81	33.00	PASS
EGPRS1900	512	4	21.35	20.68	33.00	PASS
EGPRS1900	661	1	25.90	25.23	33.00	PASS
EGPRS1900	661	2	23.82	23.15	33.00	PASS
EGPRS1900	661	3	22.55	21.88	33.00	PASS
EGPRS1900	661	4	21.29	20.62	33.00	PASS
EGPRS1900	810	1	25.92	25.25	33.00	PASS
EGPRS1900	810	2	23.74	23.07	33.00	PASS
EGPRS1900	810	3	22.64	21.97	33.00	PASS
EGPRS1900	810	4	21.30	20.63	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	6.58	13	PASS
GSM850	190	6.58	13	PASS
GSM850	251	6.58	13	PASS
EGPRS850	128	11.91	13	PASS
EGPRS850	190	11.91	13	PASS
EGPRS850	251	11.77	13	PASS
GSM1900	512	8.87	13	PASS
GSM1900	661	8.87	13	PASS
GSM1900	810	8.87	13	PASS
EGPRS1900	512	11.68	13	PASS
EGPRS1900	661	11.68	13	PASS
EGPRS1900	810	12.55	13	PASS



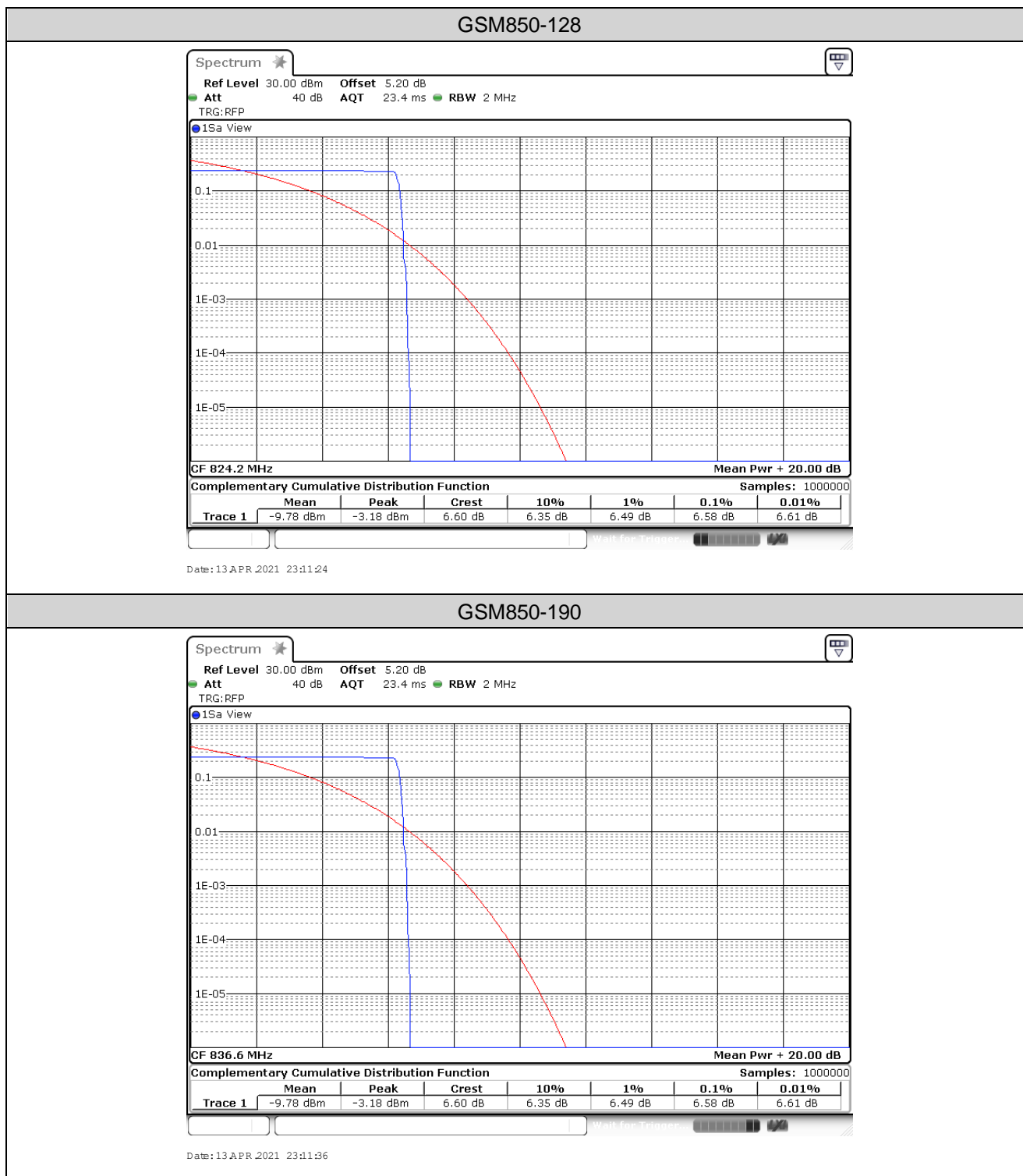
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2.2.Part II - Test Plots

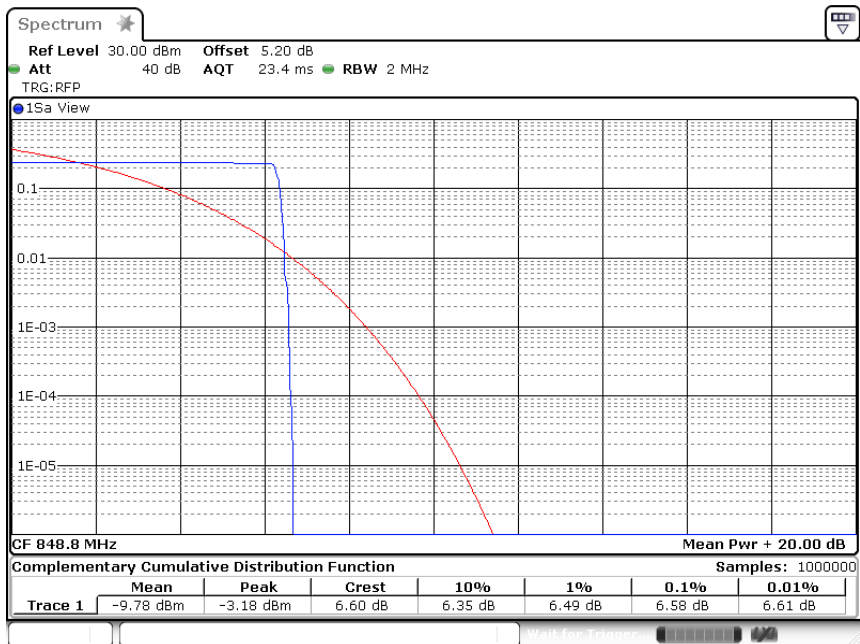


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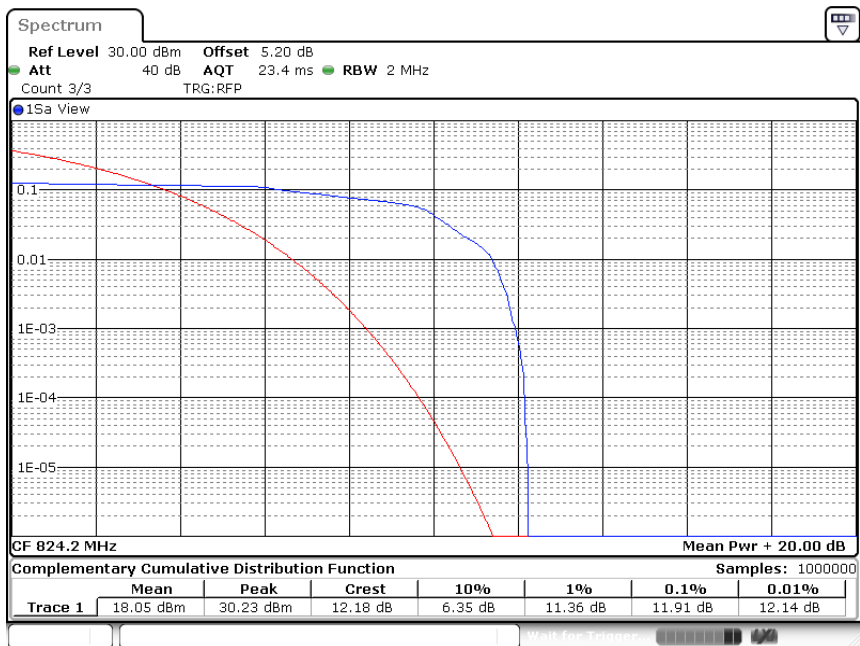
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GSM850-251



Date: 13 APR 2021 23:11:47

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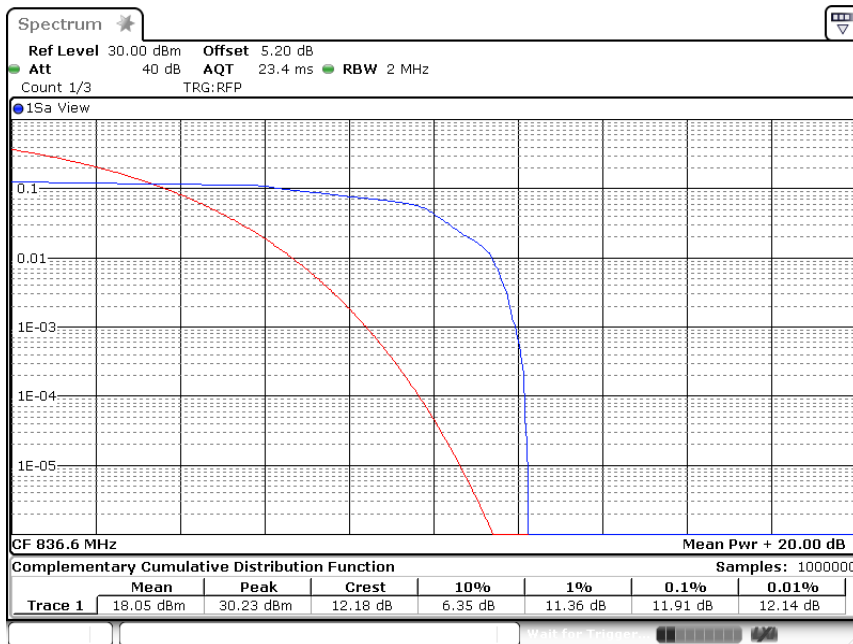
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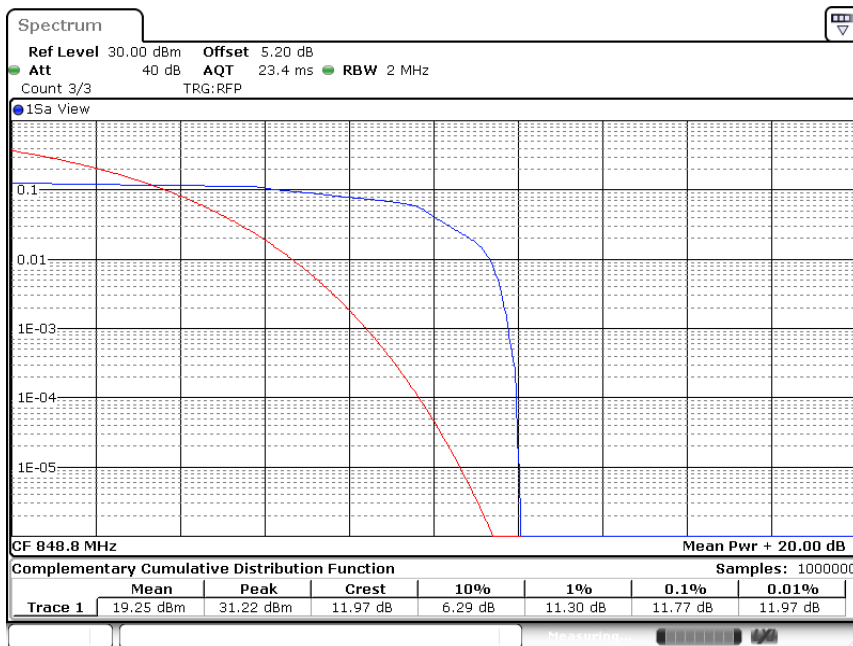
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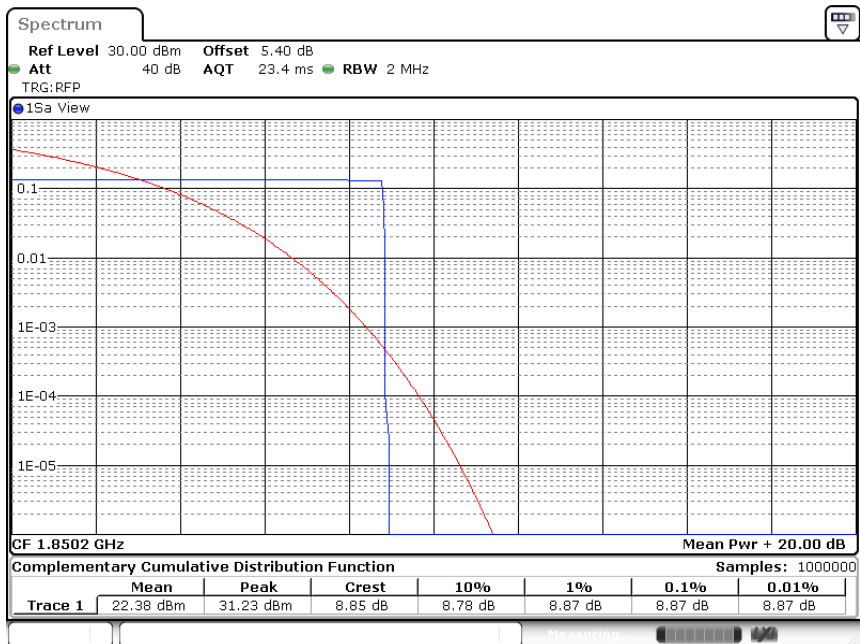
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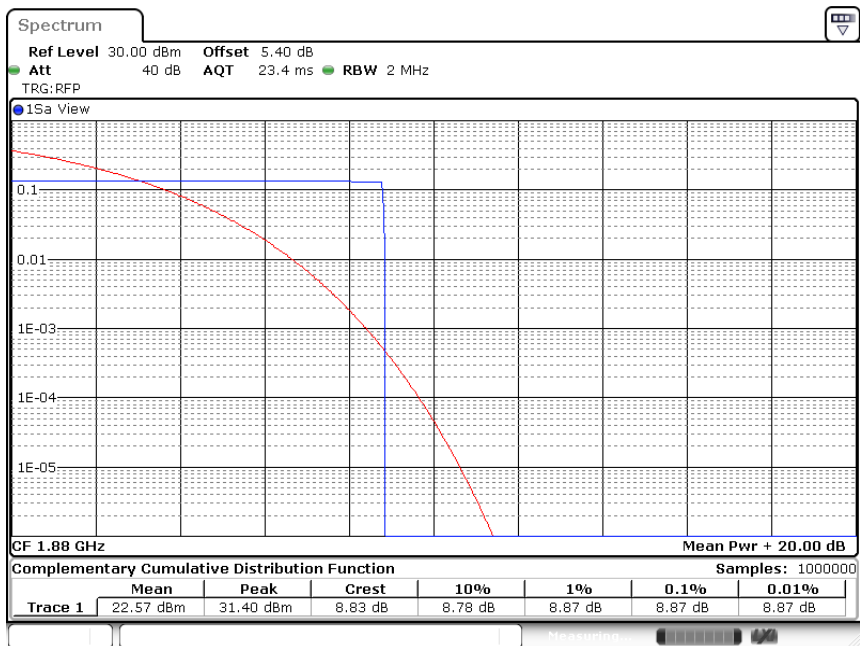


GSM1900-512



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GSM1900-661



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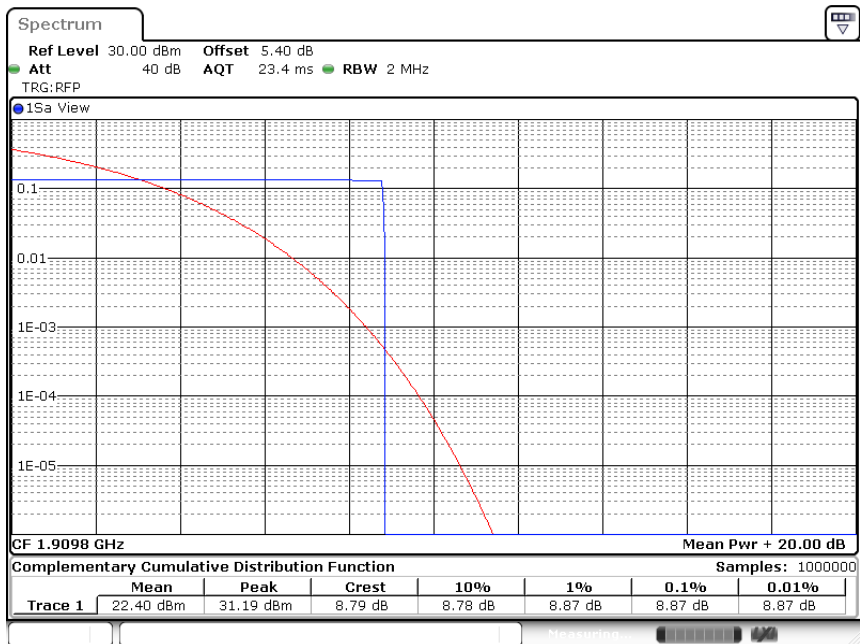
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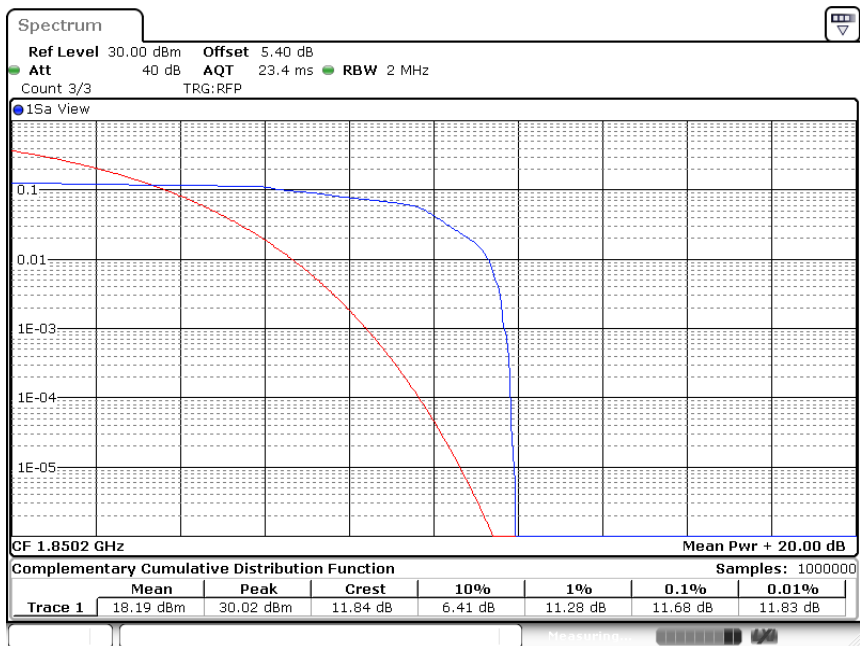
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GSM1900-810



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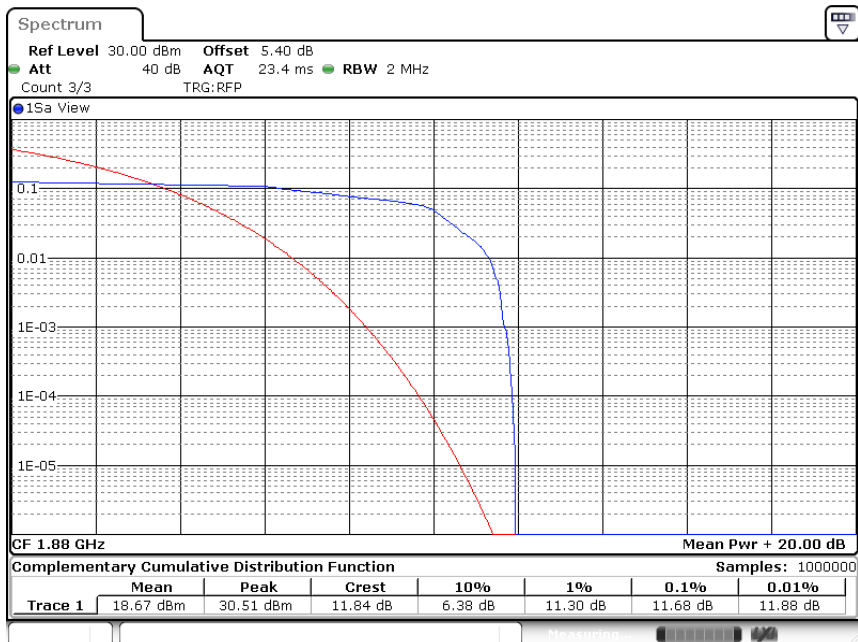
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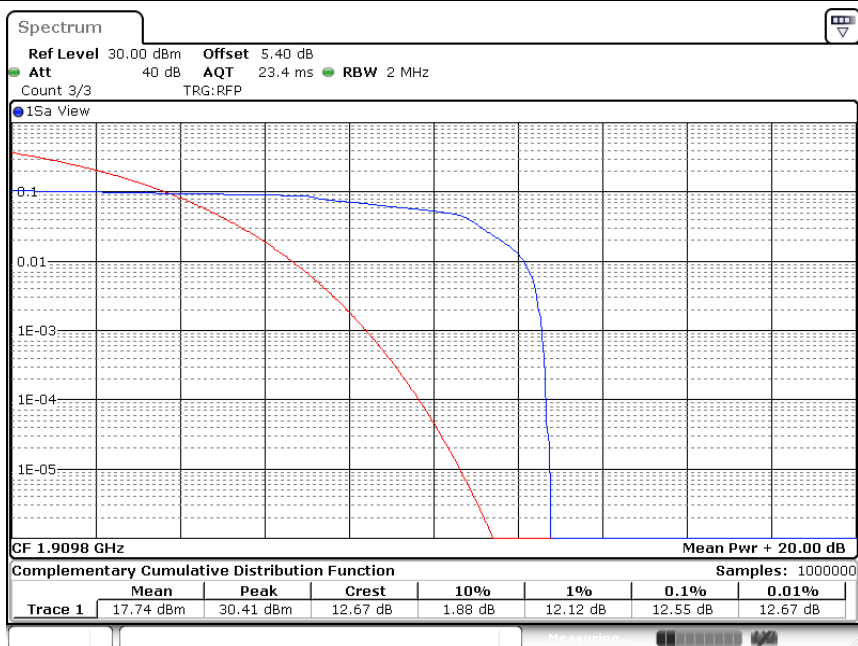


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EGPRS1900-810



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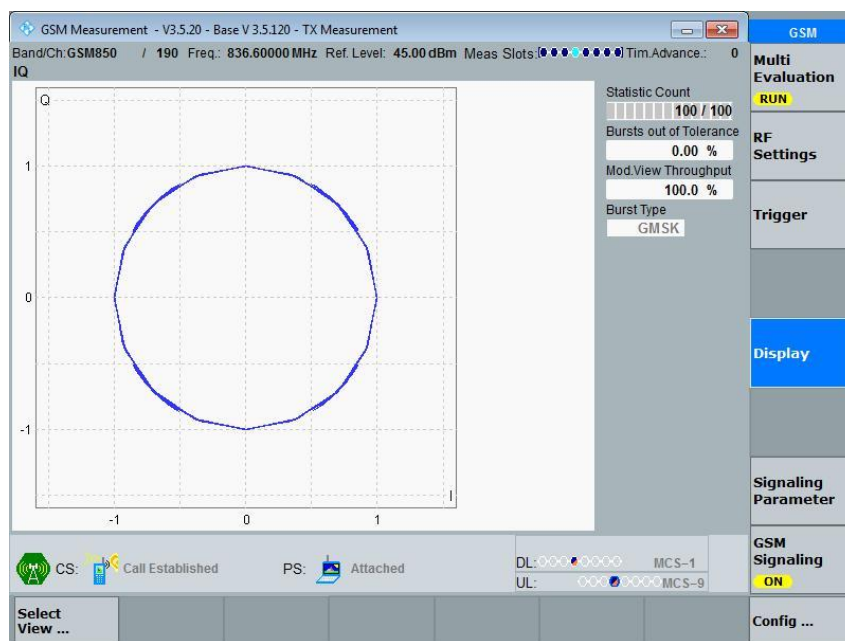
3. Modulation Characteristics

3.1. For GSM

3.1.1. Test Band = GSM 850

3.1.1.1. Test Mode = GSM/TM1

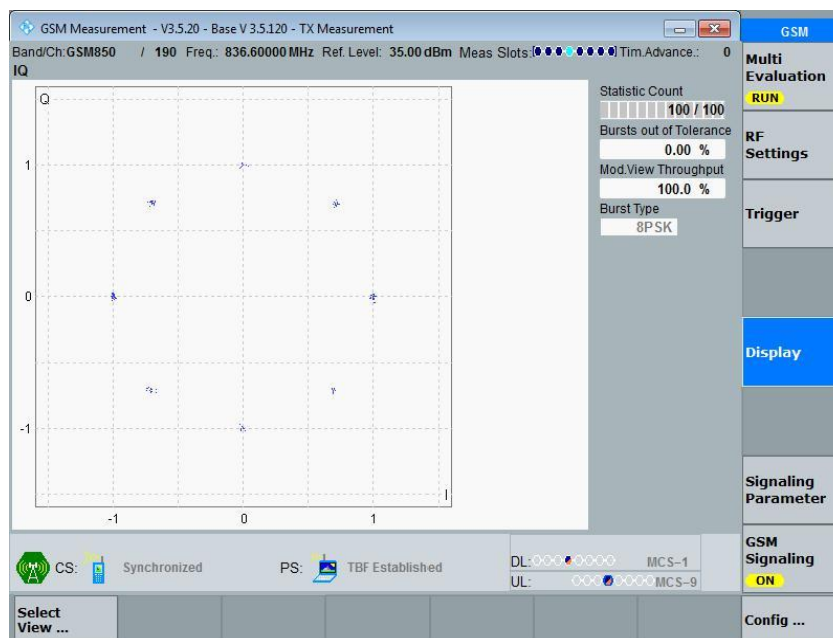
3.1.1.1.1. Test Channel = MCH





3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH



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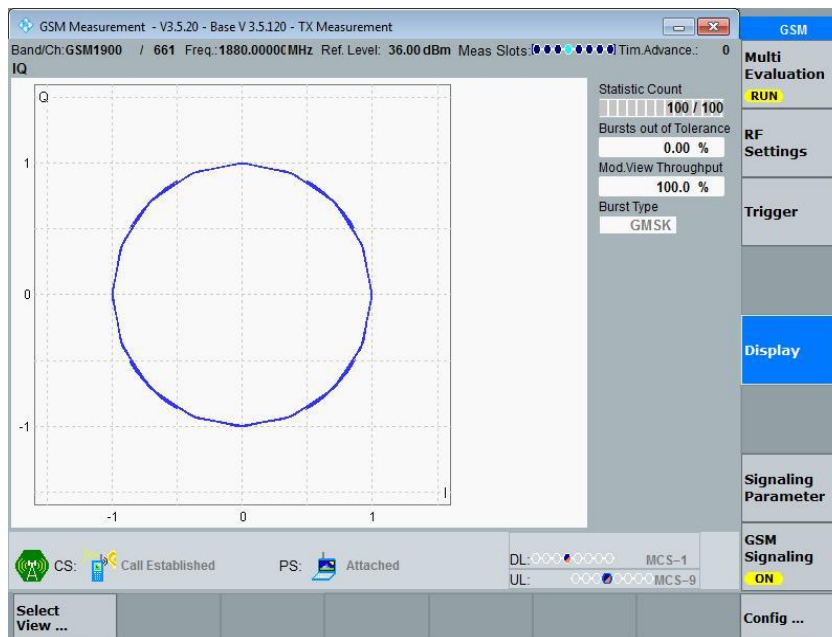
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3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

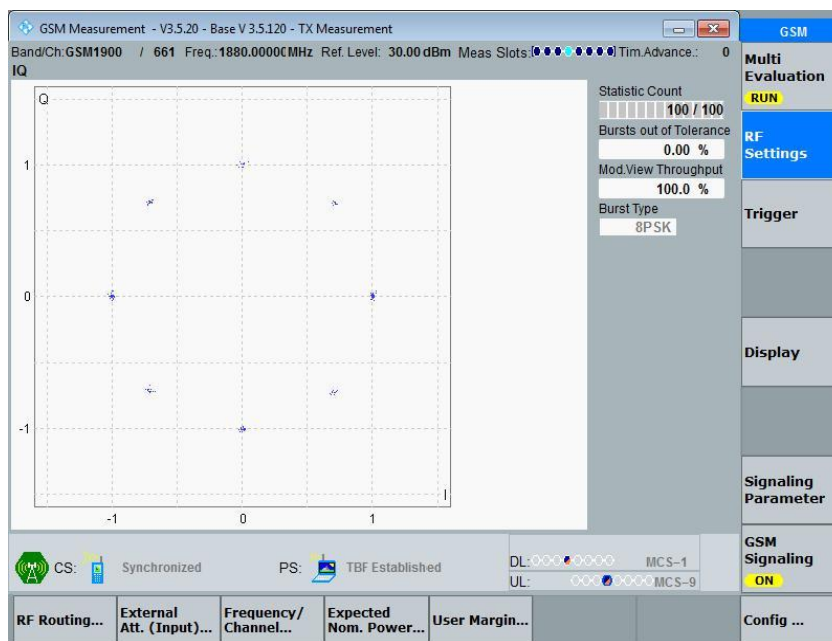
3.1.2.1.1. Test Channel = MCH





3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



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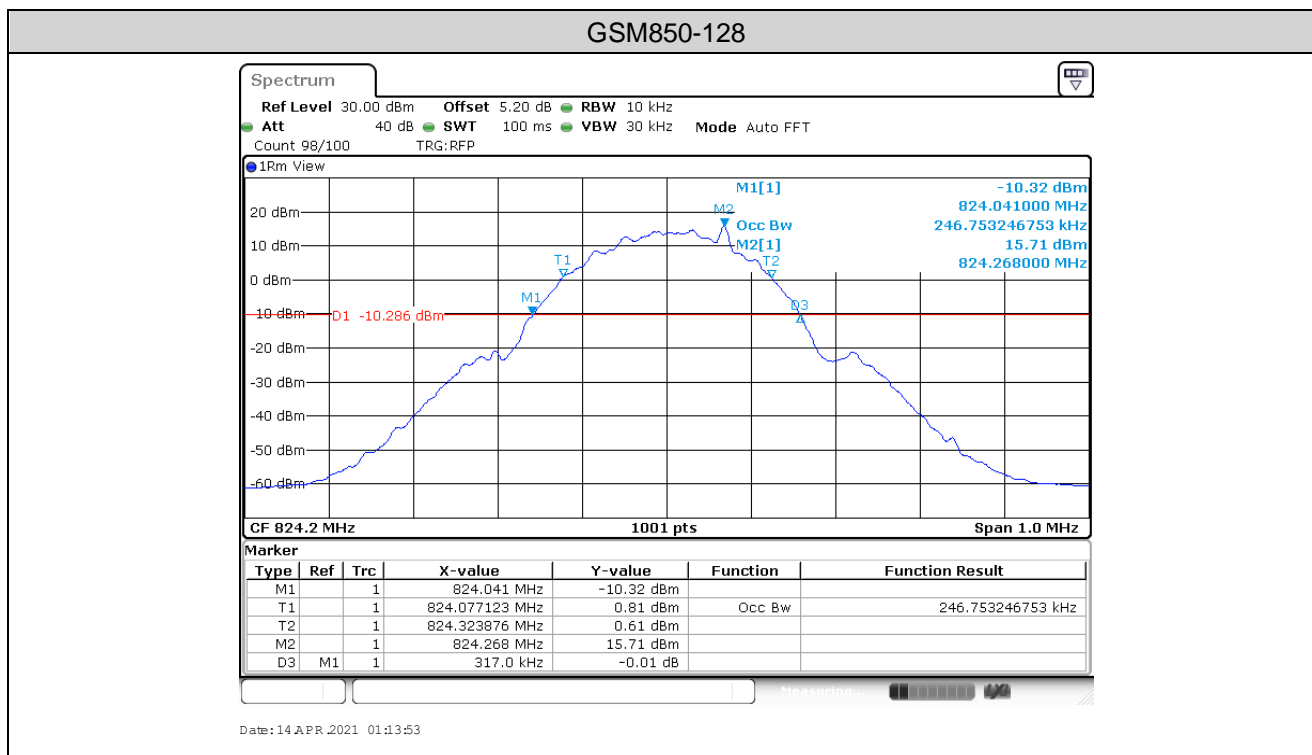


4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.247	0.317	---	PASS
GSM850	190	0.246	0.315	---	PASS
GSM850	251	0.246	0.315	---	PASS
EGPRS850	128	0.248	0.322	---	PASS
EGPRS850	190	0.247	0.320	---	PASS
EGPRS850	251	0.247	0.318	---	PASS
GSM1900	512	0.246	0.317	---	PASS
GSM1900	661	0.246	0.315	---	PASS
GSM1900	810	0.246	0.316	---	PASS
EGPRS1900	512	0.247	0.320	---	PASS
EGPRS1900	661	0.248	0.320	---	PASS
EGPRS1900	810	0.249	0.320	---	PASS

4.2. Test Plots

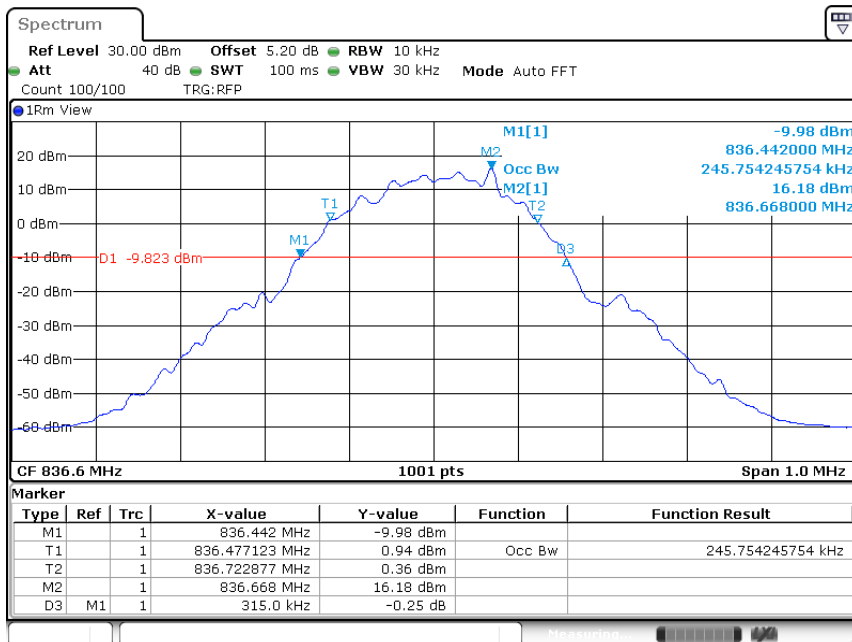


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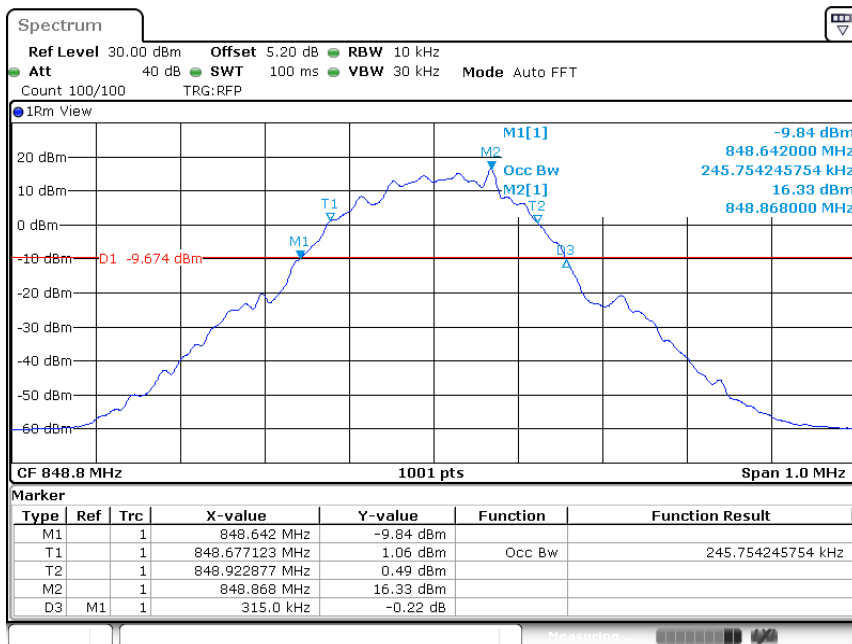
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GSM850-190



Date: 14 APR 2021 01:14:14

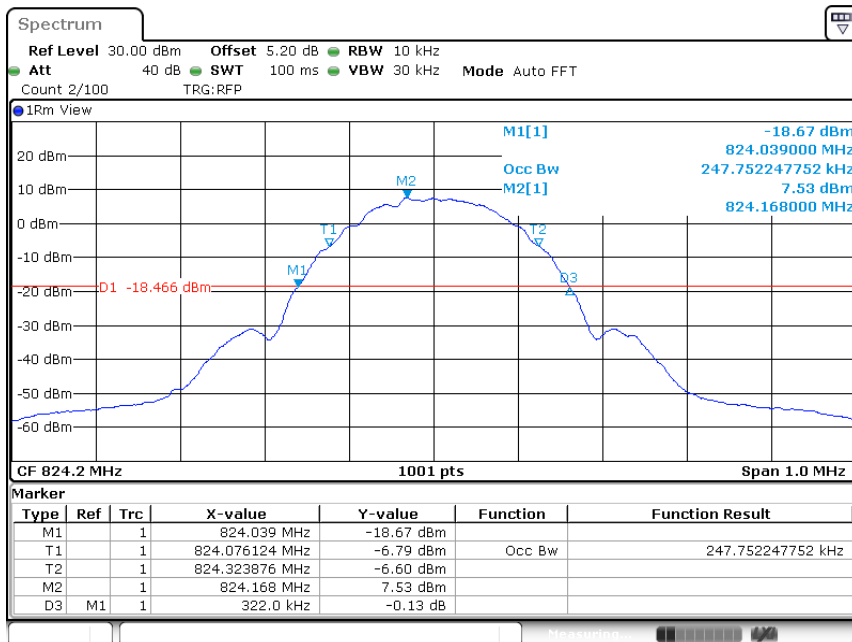
GSM850-251



Date: 14 APR 2021 01:14:35

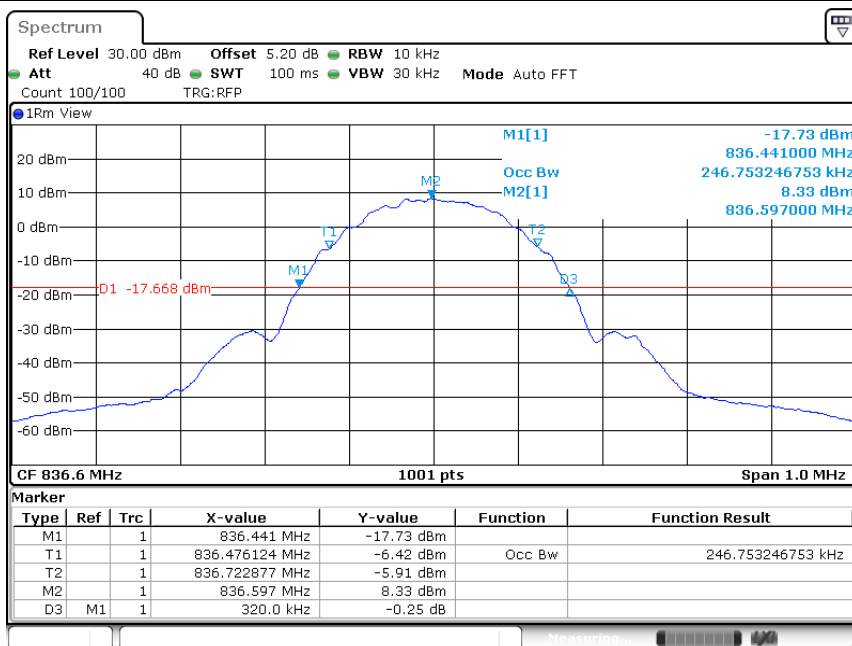


EGPRS850-128



Date: 14 APR 2021 01:18:43

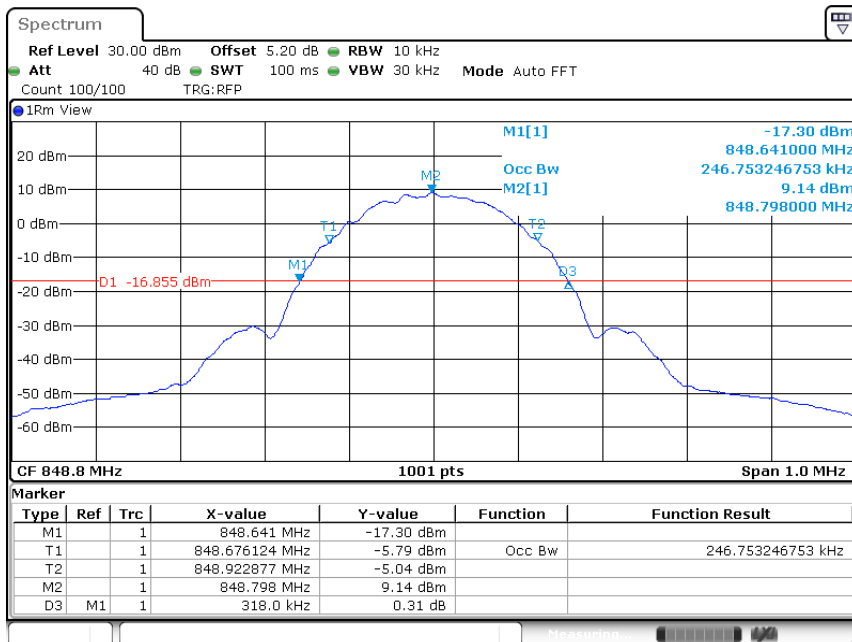
EGPRS850-190



Date: 14 APR 2021 01:19:08

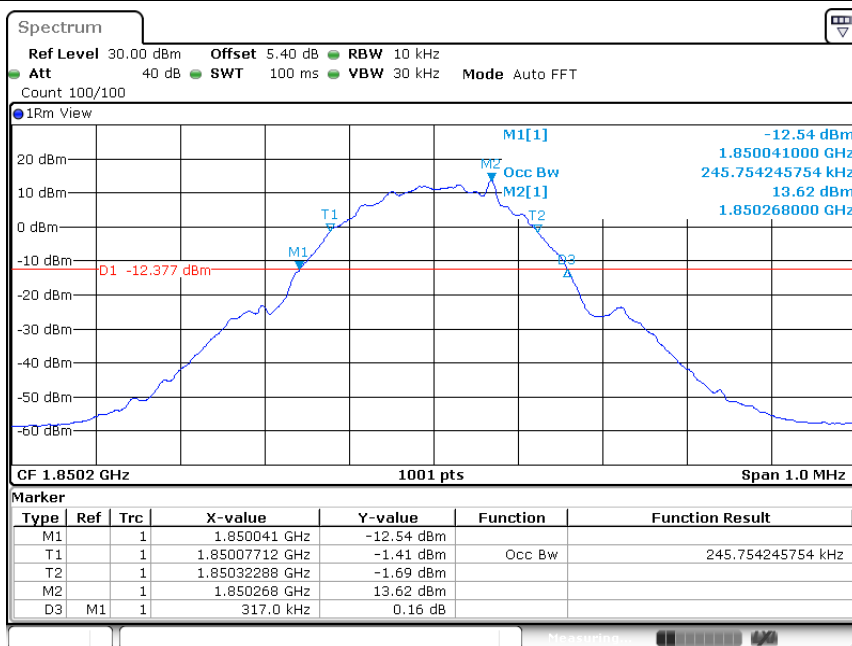


EGPRS850-251



Date: 14 APR 2021 01:19:30

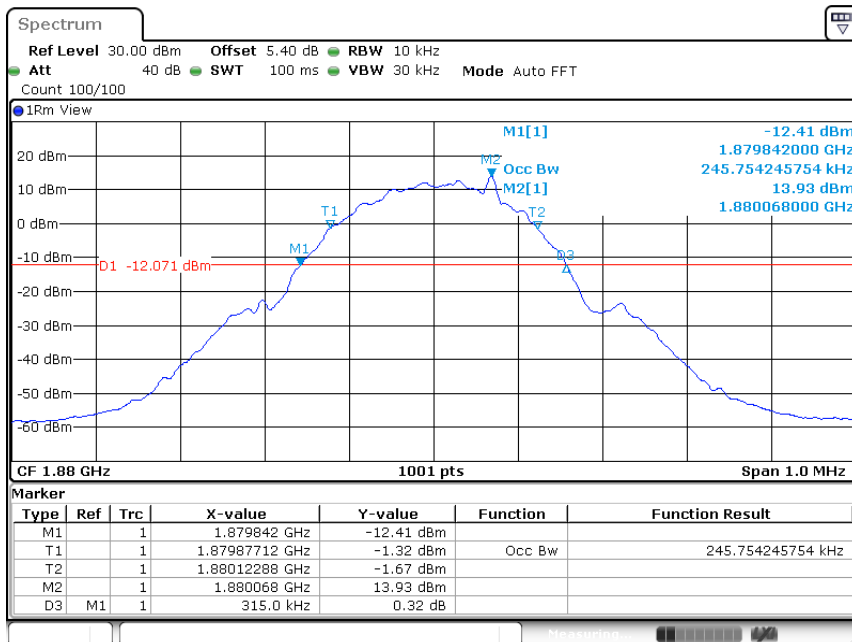
GSM1900-512



Date: 14 APR 2021 01:03:11

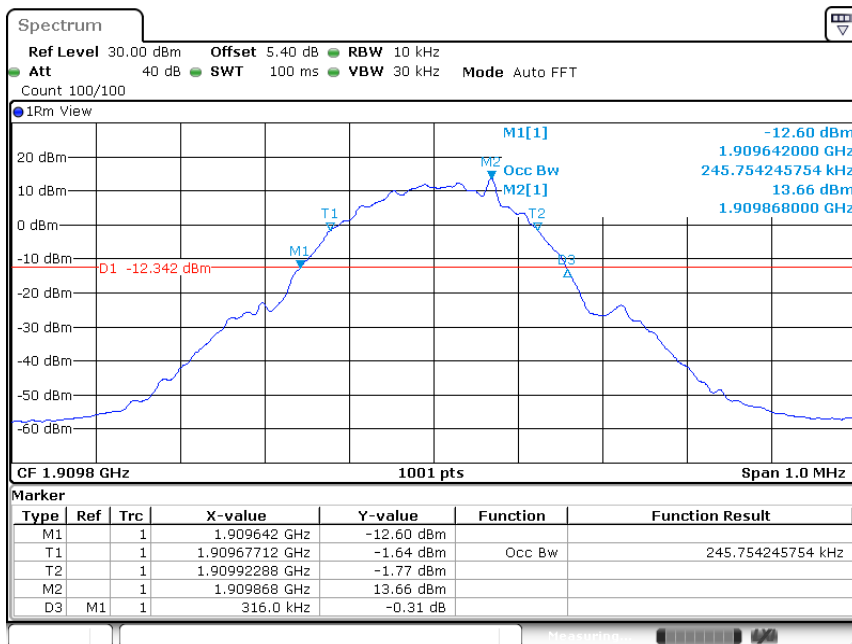


GSM1900-661



Date: 14 APR 2021 01:03:33

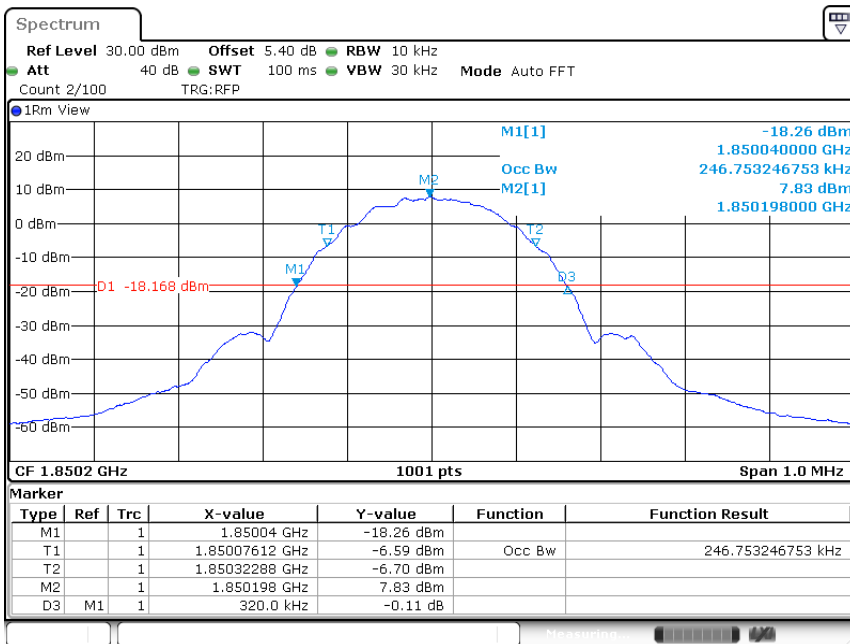
GSM1900-810



Date: 14 APR 2021 01:03:54

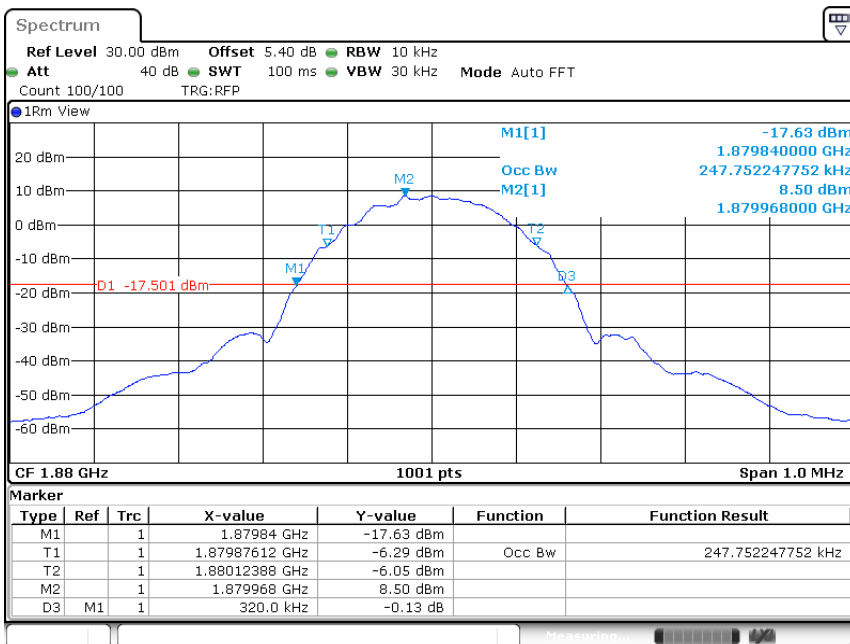


EGPRS1900-512



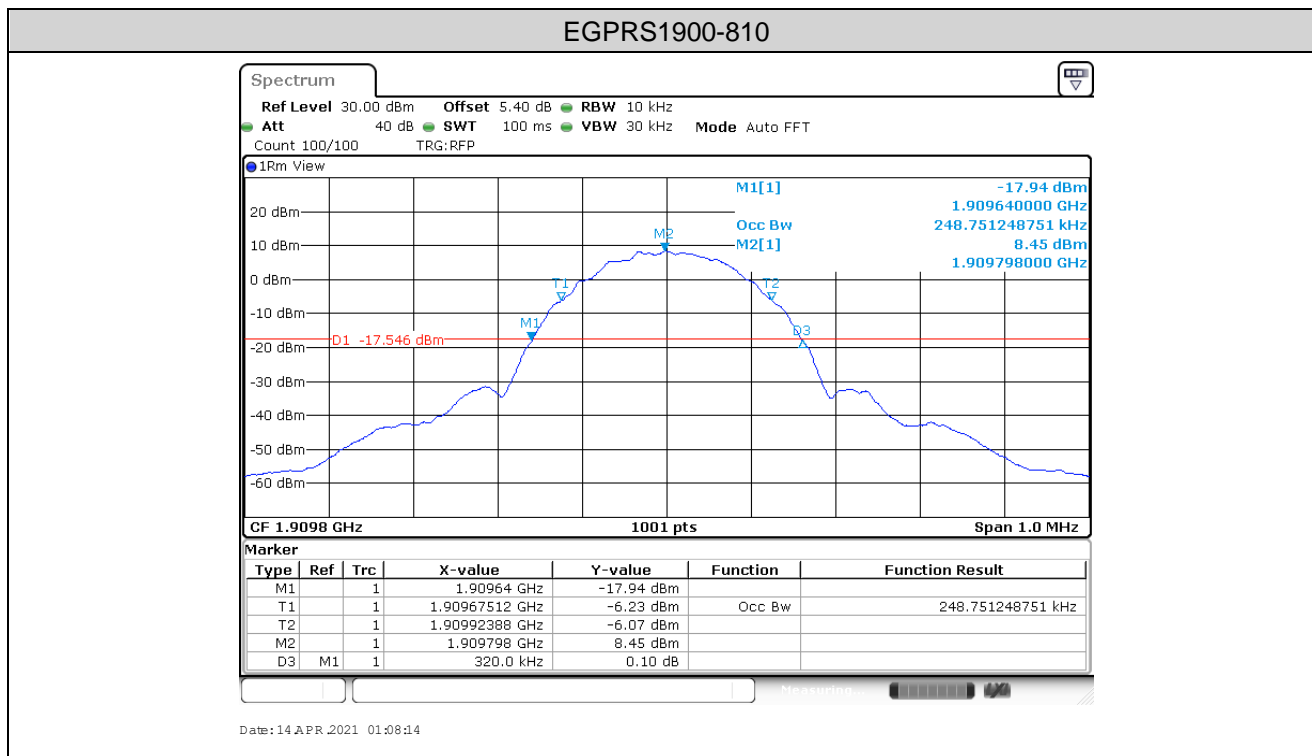
Date: 14 APR 2021 01:07:31

EGPRS1900-661



Date: 14 APR 2021 01:07:53



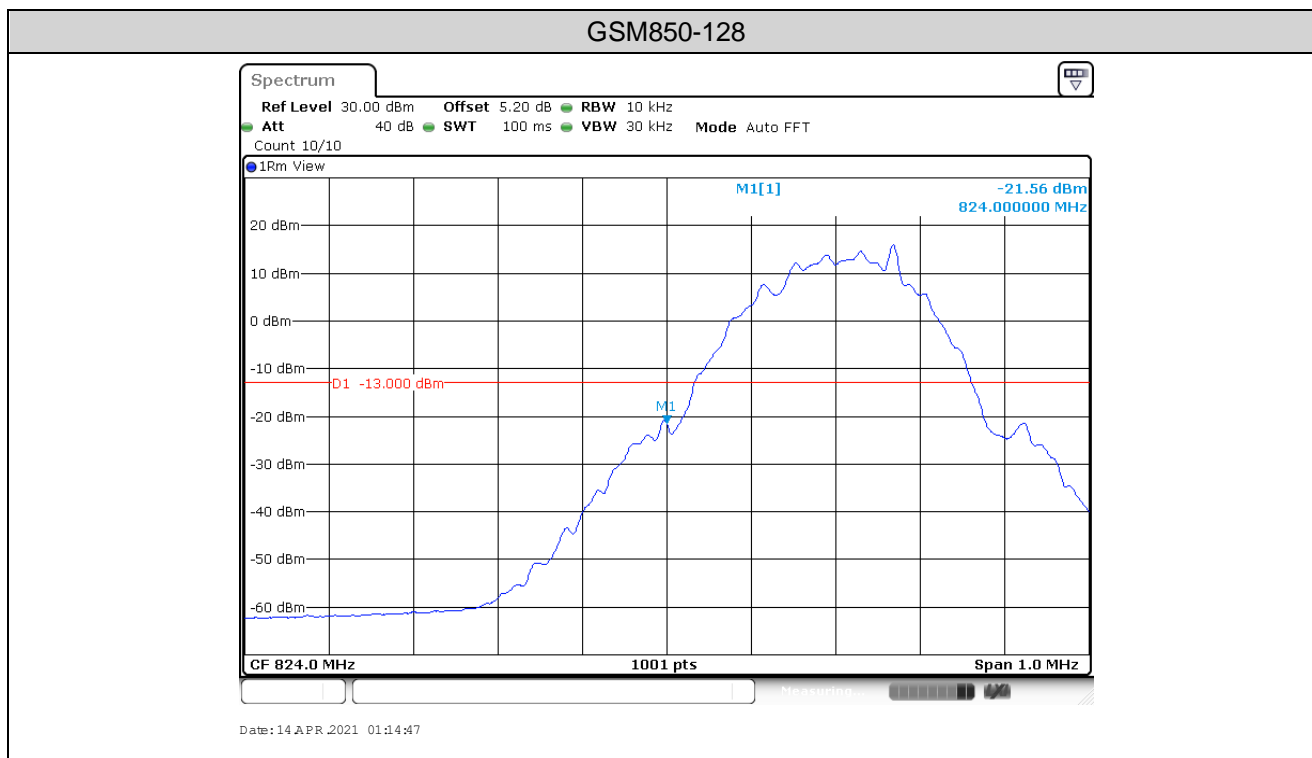


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5. Band Edge Compliance

5.1. Test Plots



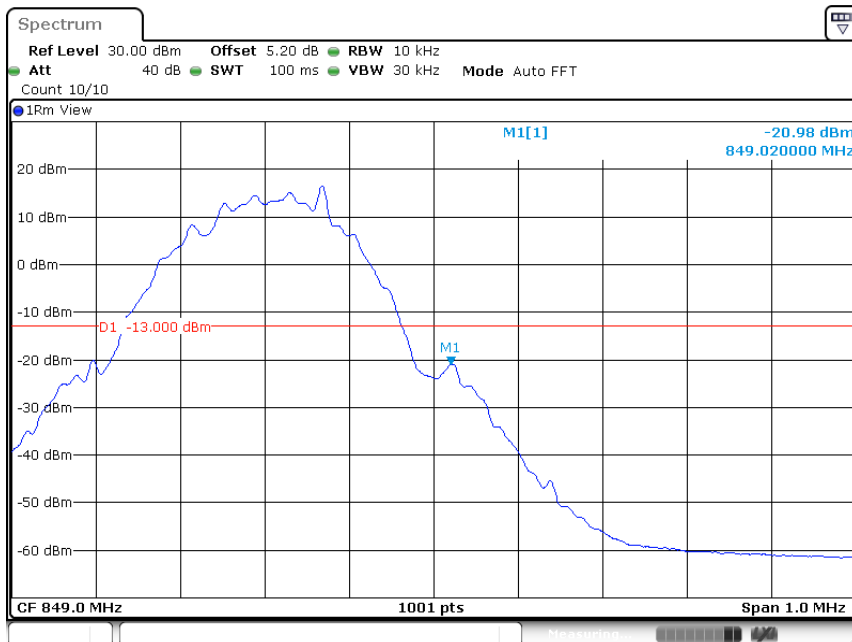
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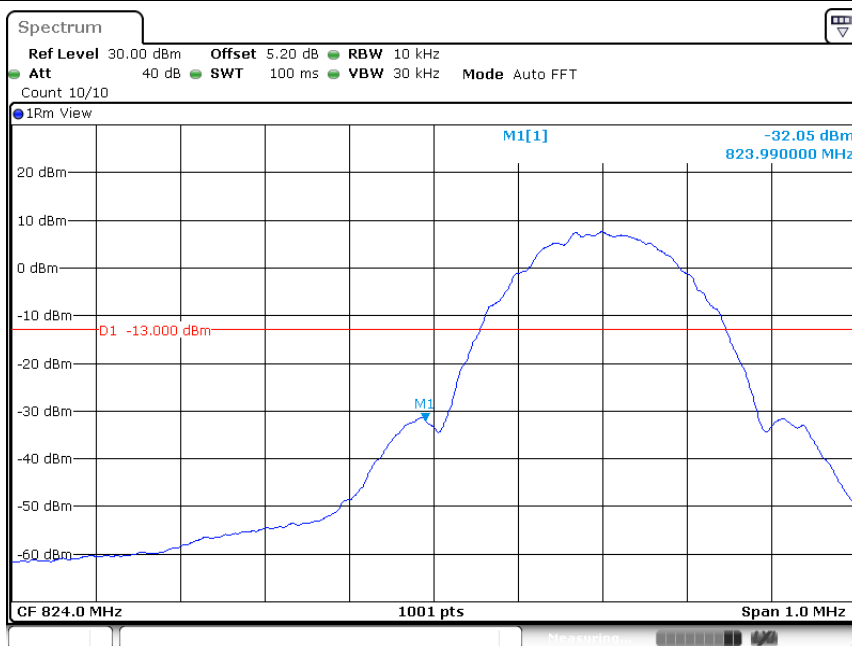
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GSM850-251



Date: 14 APR 2021 01:14:59

EGPRS850-128



Date: 14 APR 2021 01:19:42

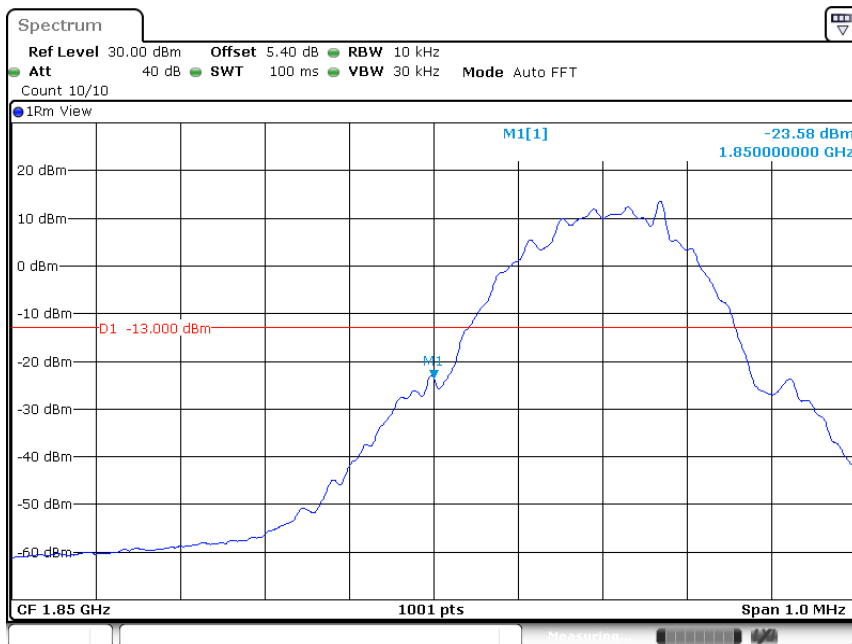


EGPRS850-251



Date: 14 APR 2021 01:19:55

GSM1900-512



Date: 14 APR 2021 01:04:06



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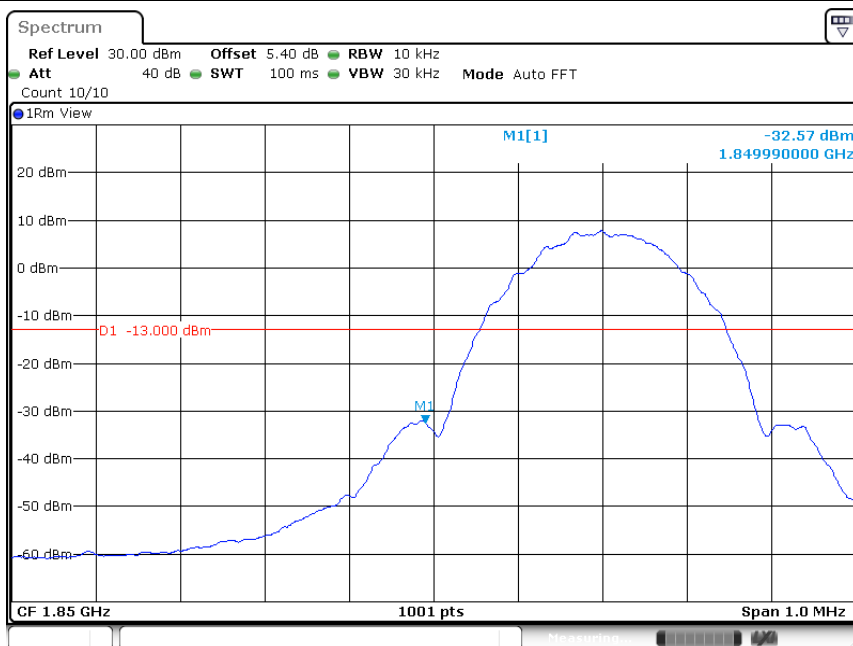
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GSM1900-810



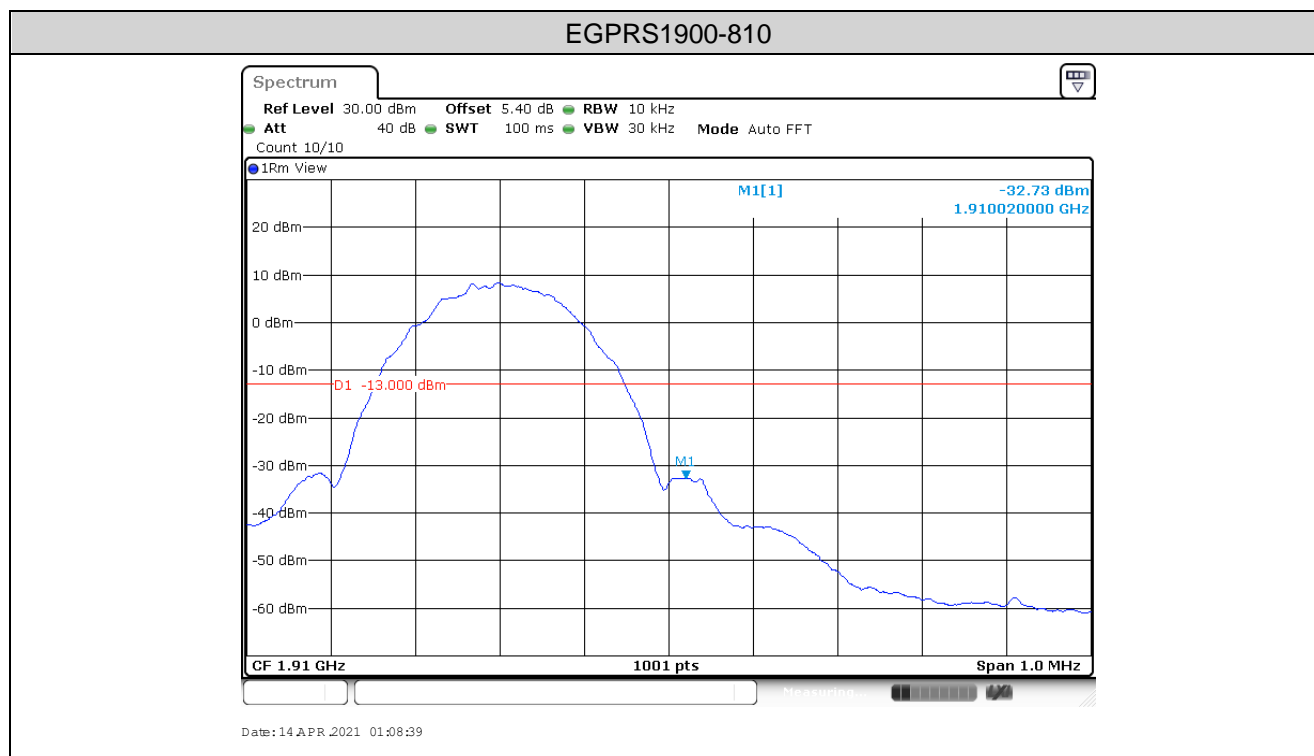
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EGPRS1900-512



Date: 14 APR 2021 01:08:27





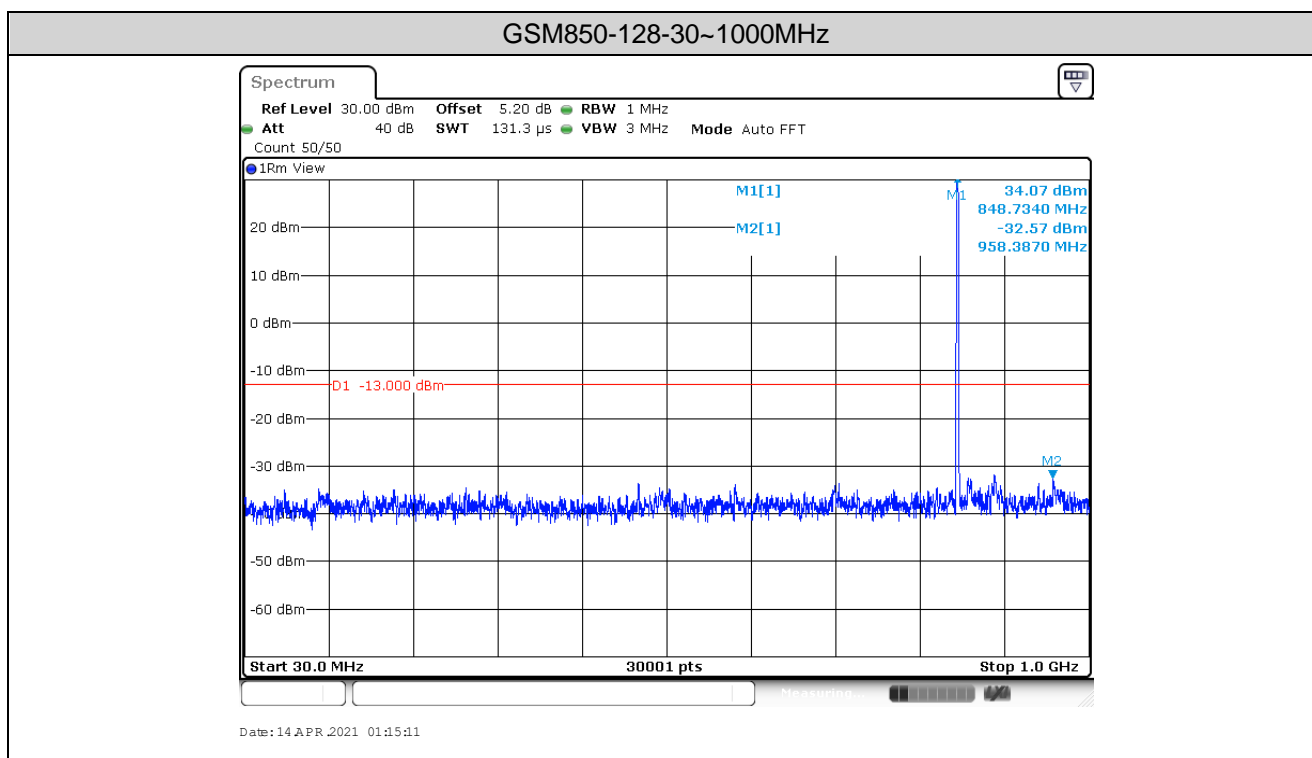


6. Spurious Emission at Antenna Terminal

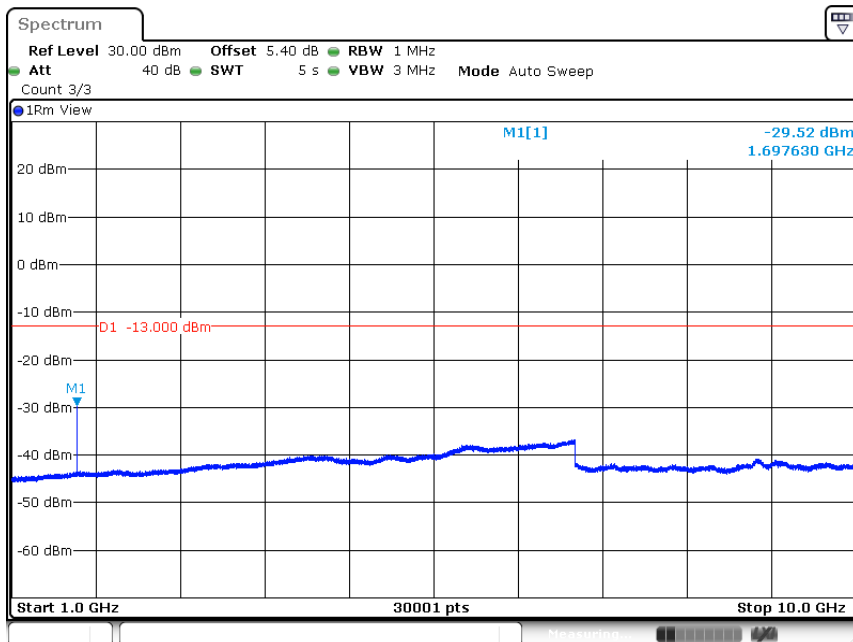
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

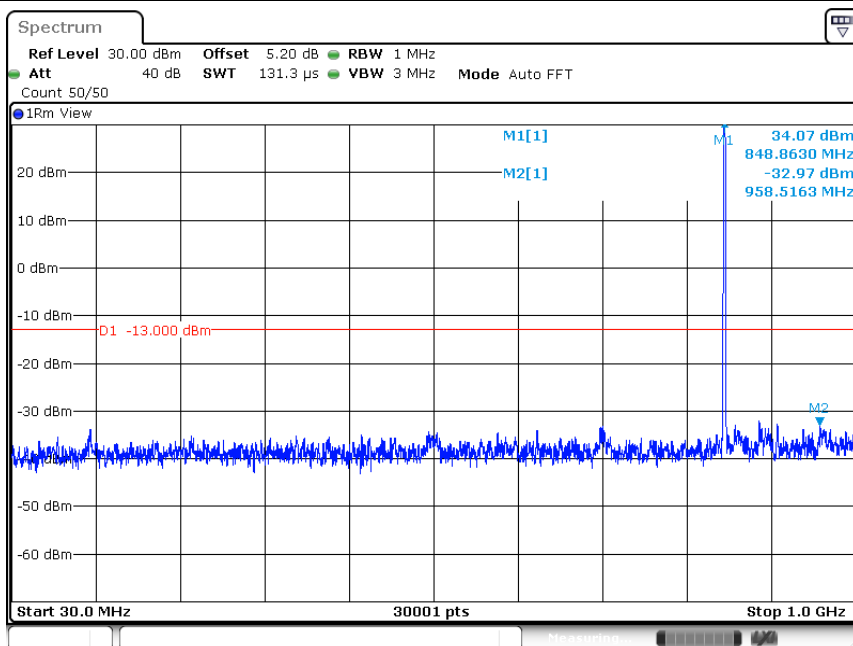


GSM850-128-1000~10000MHz



Date: 14 APR 2021 01:15:35

GSM850-190-30~1000MHz



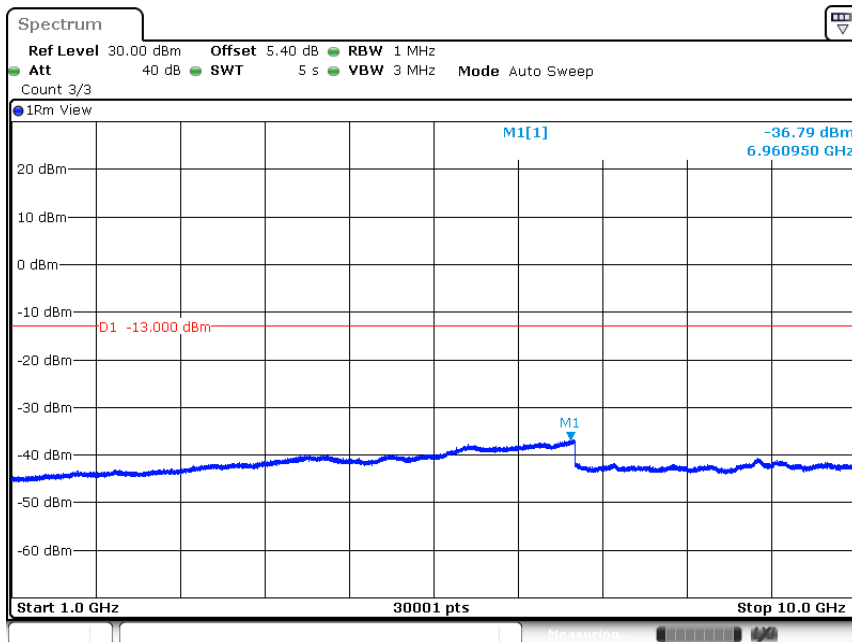
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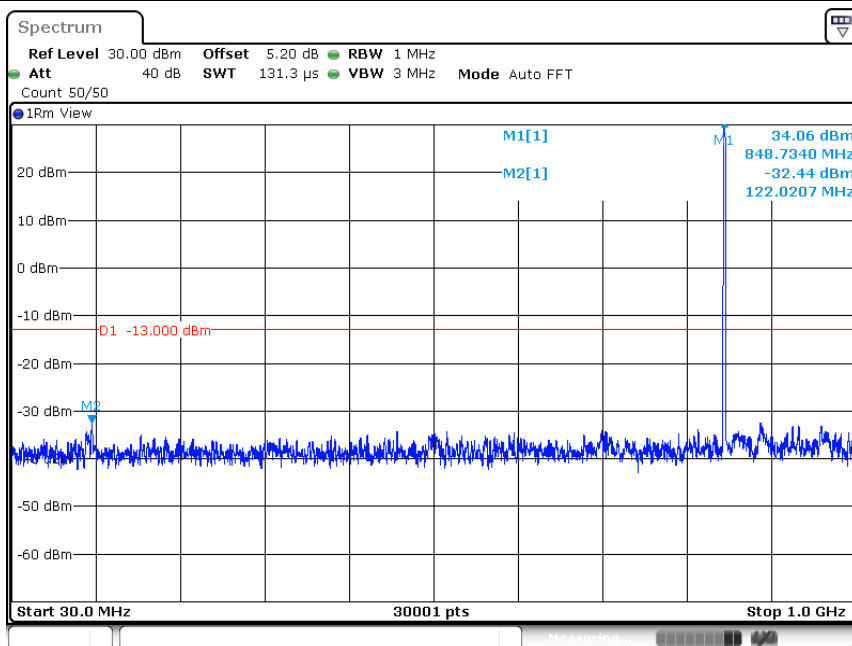
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GSM850-190-1000~10000MHz



Date: 14 APR 2021 01:16:11

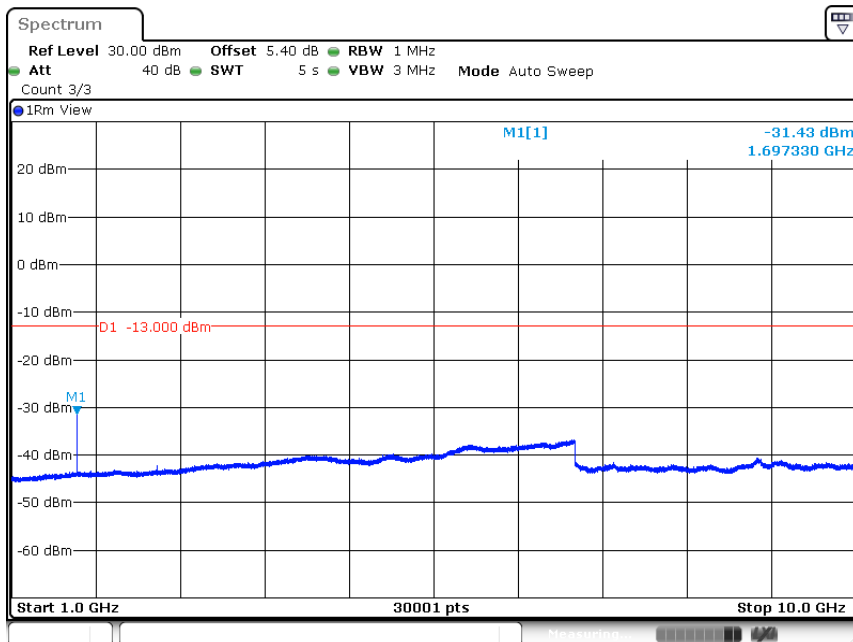
GSM850-251-30~1000MHz



Date: 14 APR 2021 01:16:22

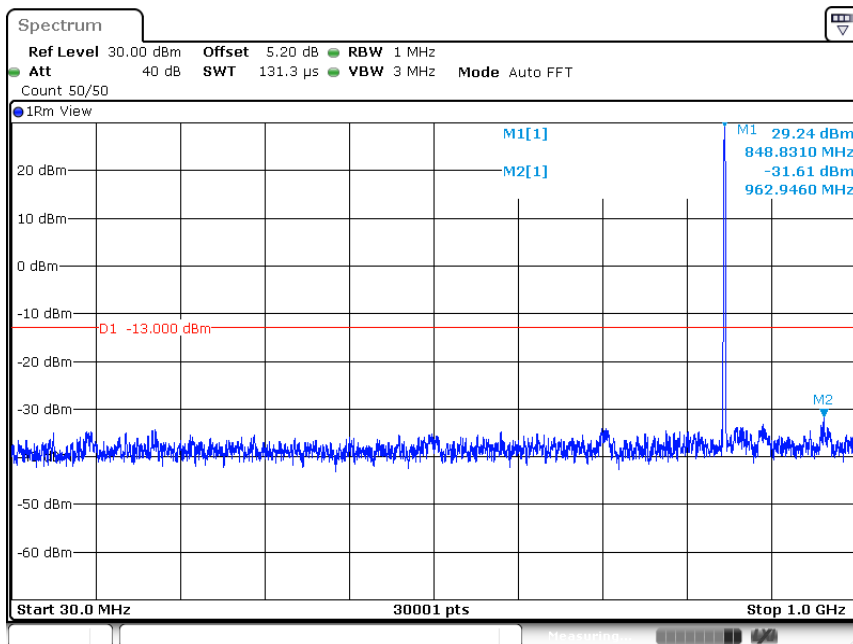


GSM850-251-1000~10000MHz



Date: 14 APR 2021 01:16:46

EGPRS850-128-30~1000MHz



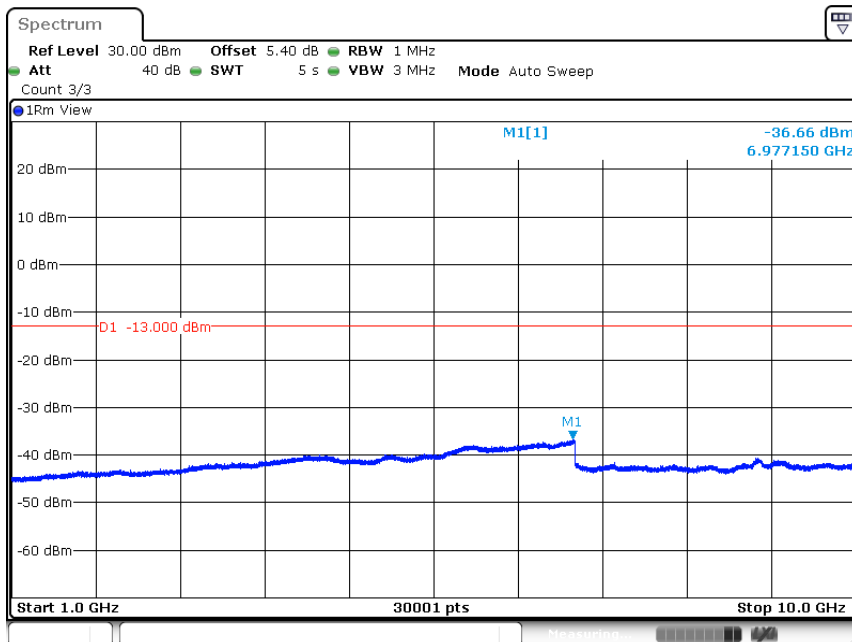
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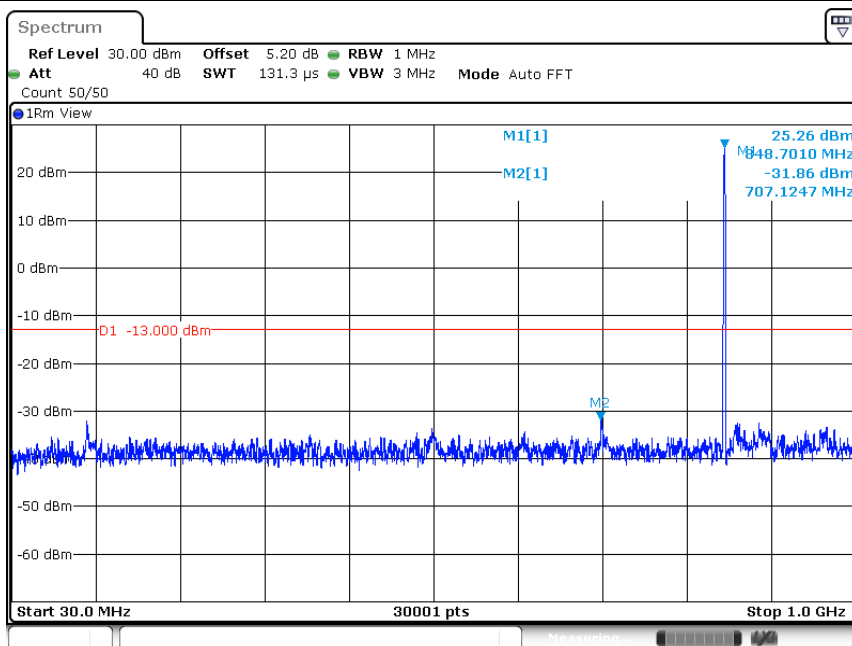
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EGPRS850-128-1000~10000MHz



Date: 14 APR 2021 01:20:31

EGPRS850-190-30~1000MHz



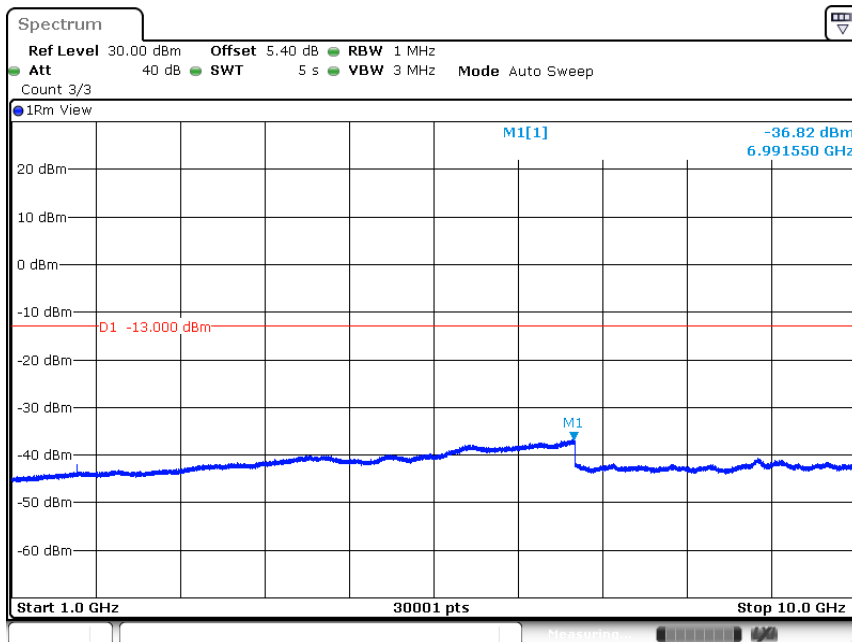
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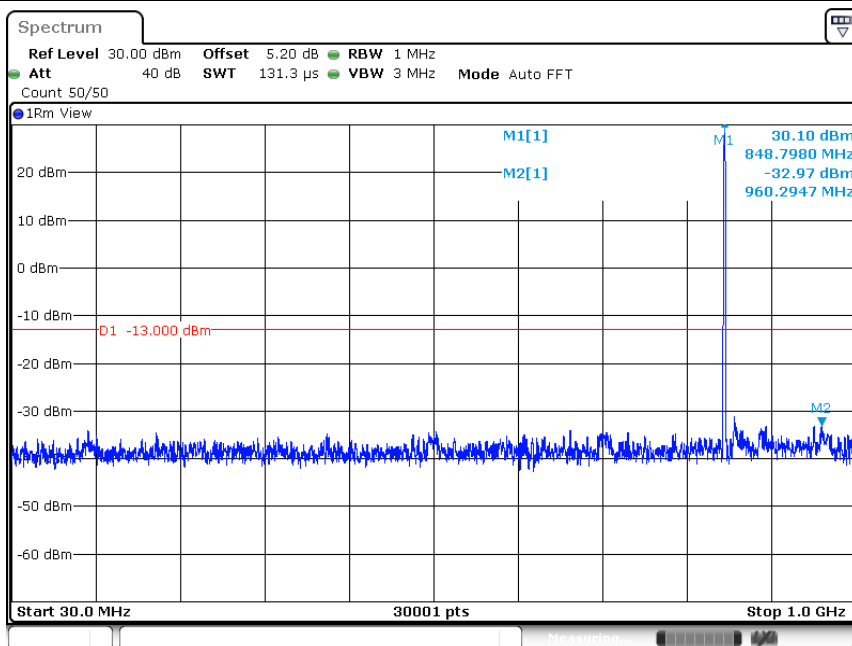
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EGPRS850-190-1000~10000MHz



Date: 14 APR 2021 01:21:10

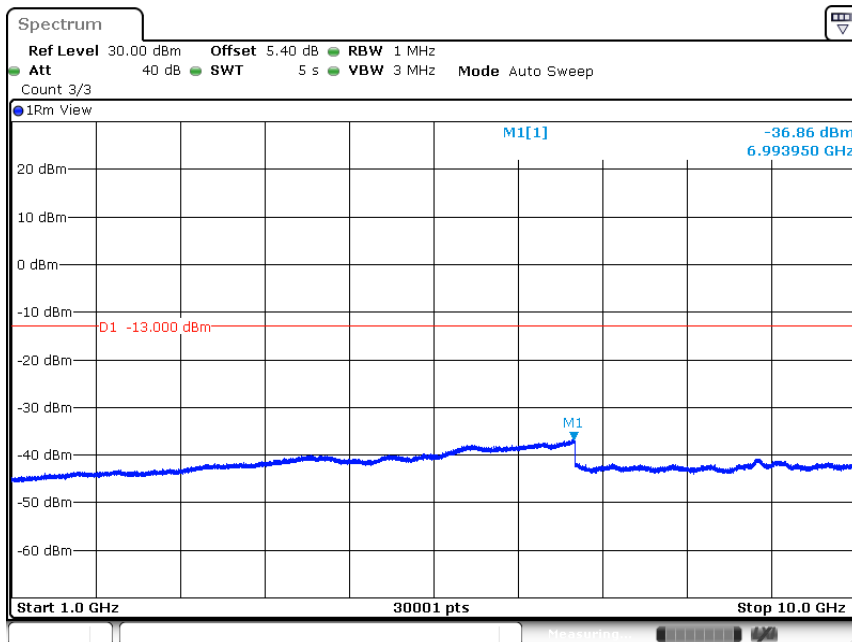
EGPRS850-251-30~1000MHz



Date: 14 APR 2021 01:21:21

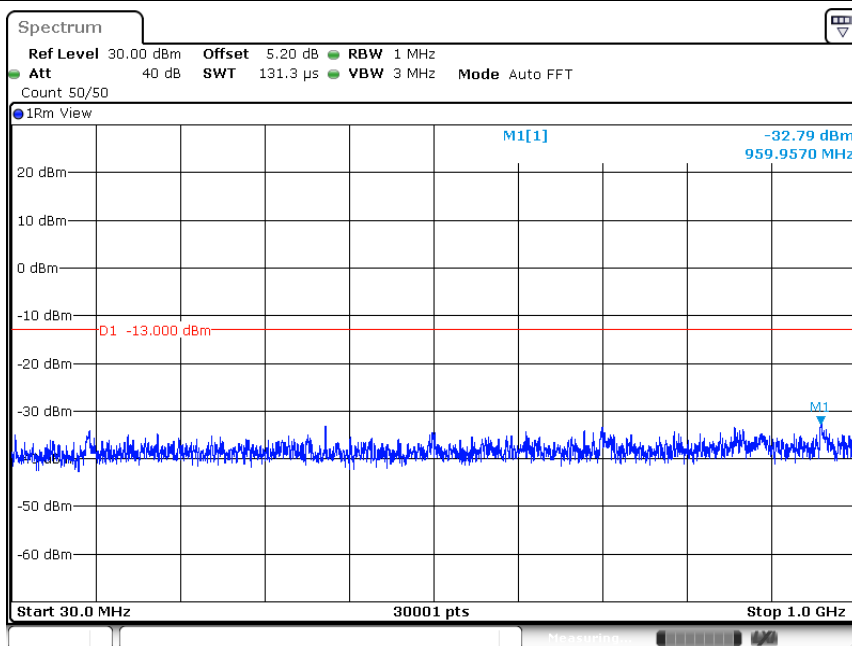


EGPRS850-251-1000~10000MHz



Date: 14 APR 2021 01:21:46

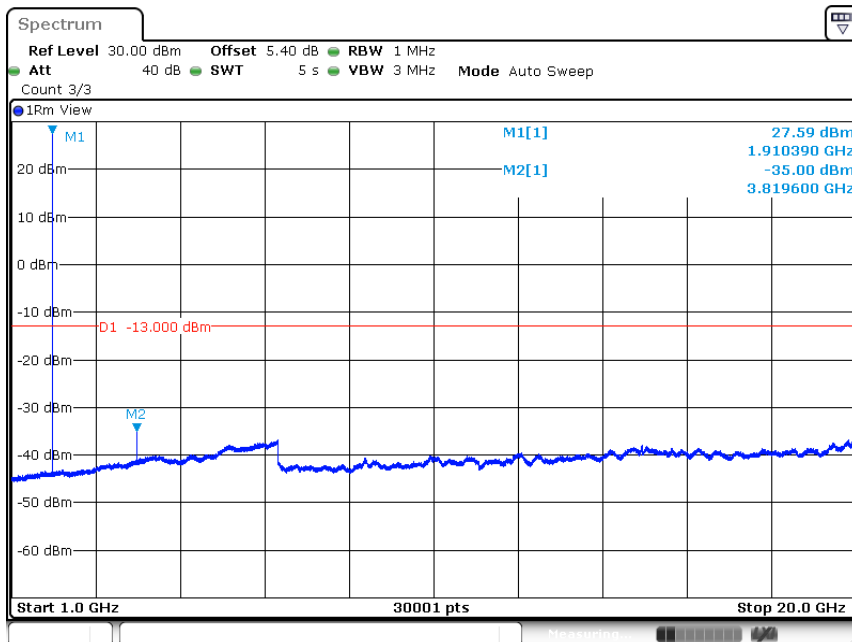
GSM1900-512-30~1000MHz



Date: 14 APR 2021 01:04:29

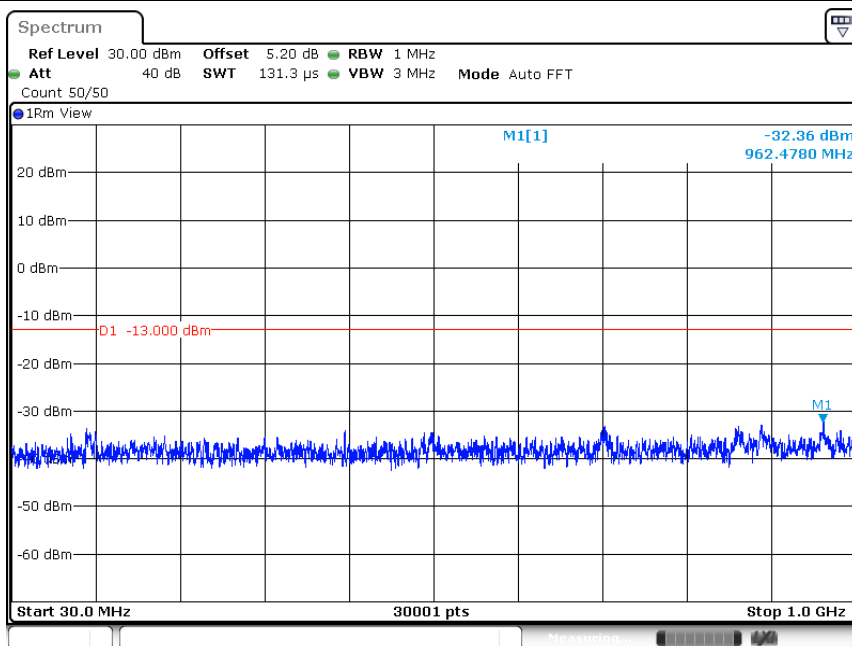


GSM1900-512-1000~20000MHz



Date: 14 APR 2021 01:04:56

GSM1900-661-30~1000MHz



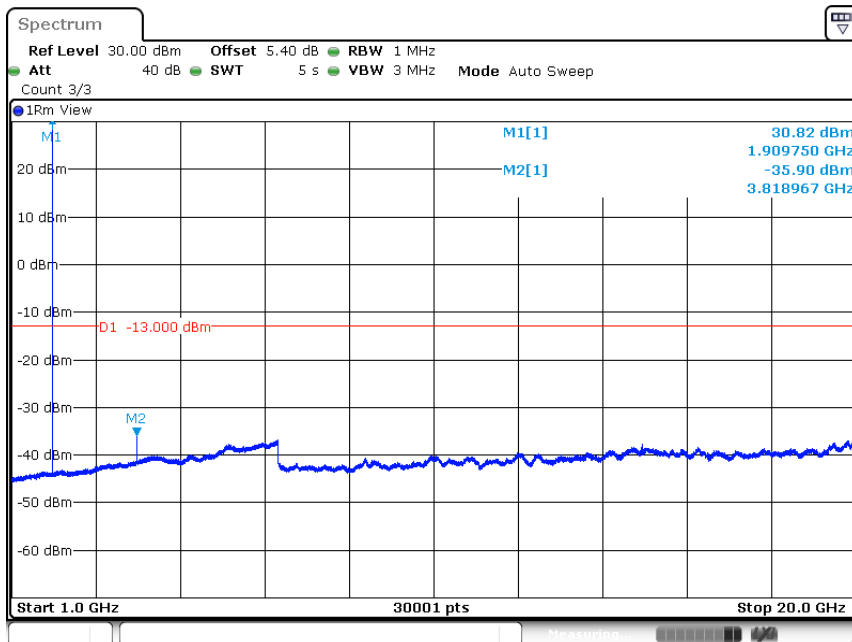
Date: 14 APR 2021 01:05:07



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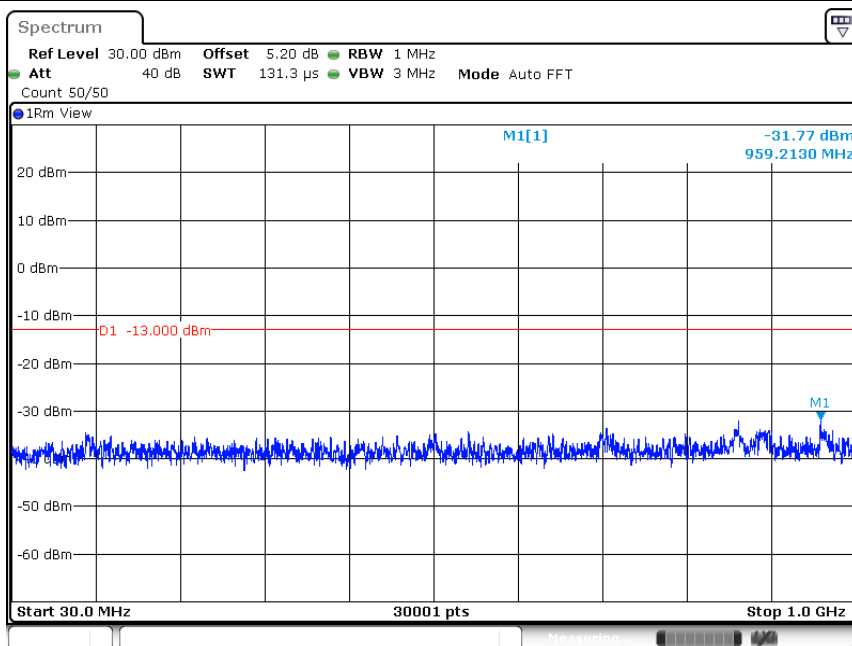
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GSM1900-661-1000~20000MHz



Date: 14 APR 2021 01:05:32

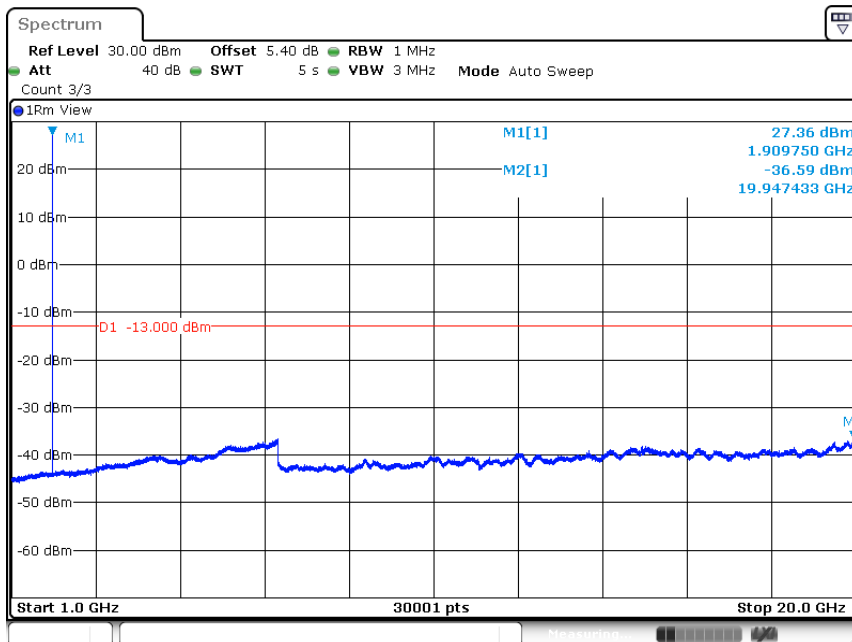
GSM1900-810-30~1000MHz



Date: 14 APR 2021 01:05:42

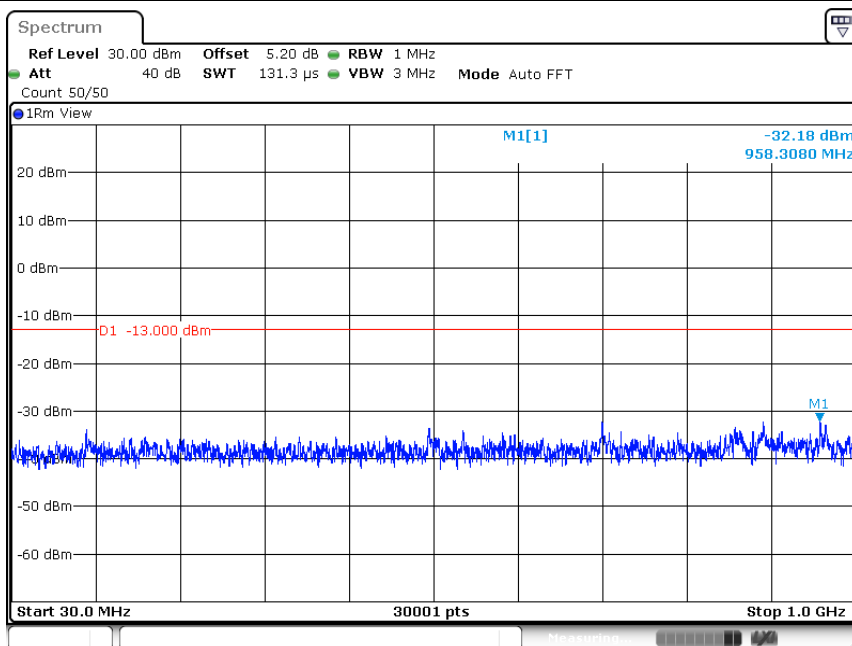


GSM1900-810-1000~20000MHz



Date: 14 APR 2021 01:06:08

EGPRS1900-512-30~1000MHz



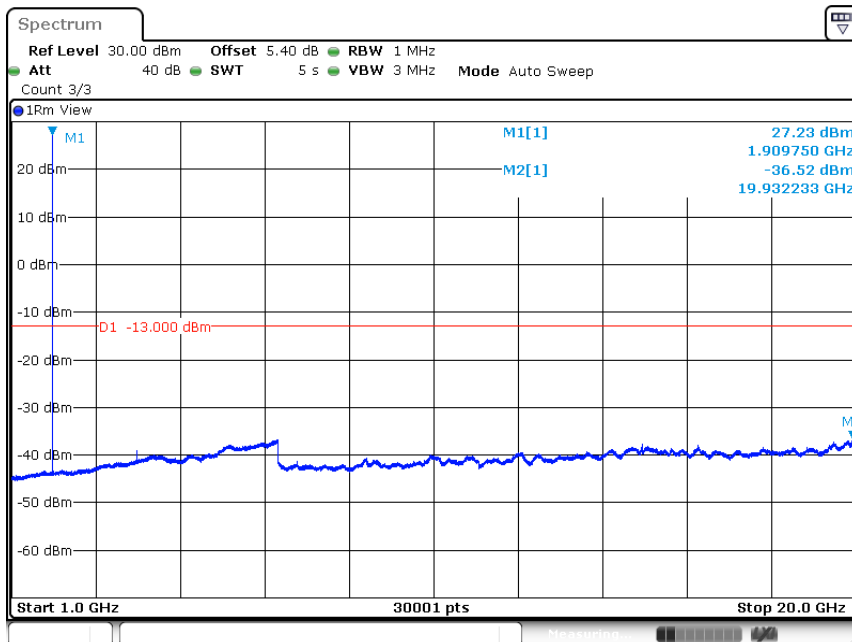
Date: 14 APR 2021 01:08:51



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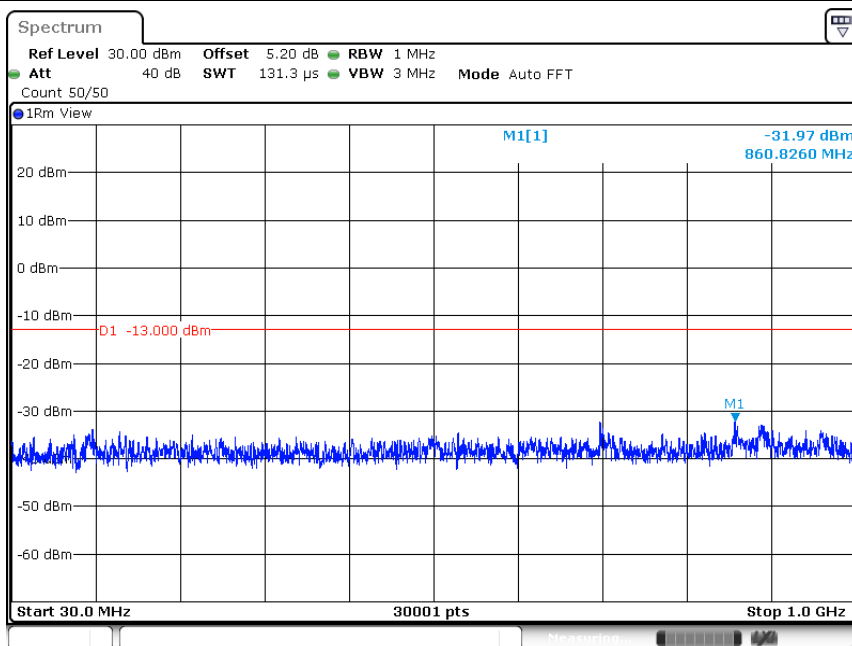
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EGPRS1900-512-1000~20000MHz



Date: 14 APR 2021 01:09:59

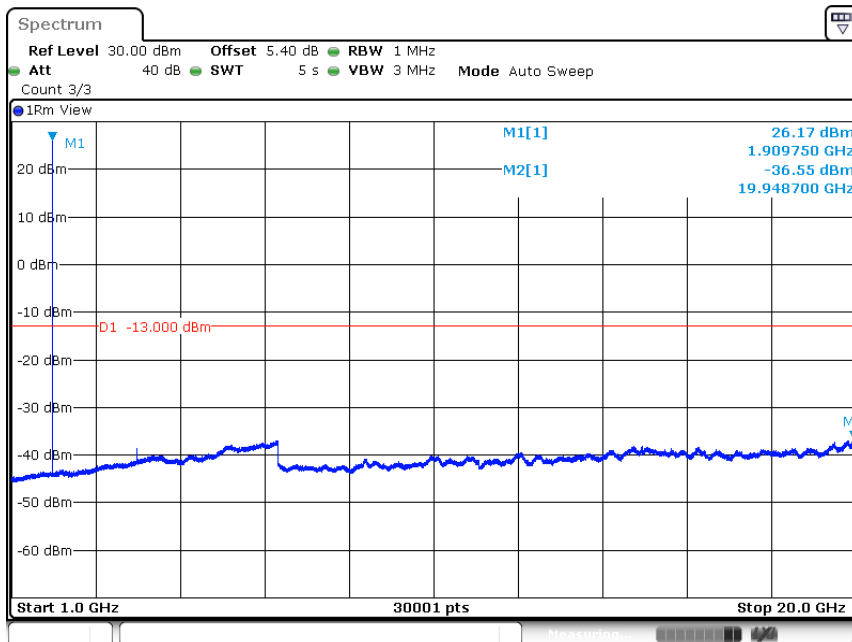
EGPRS1900-661-30~1000MHz



Date: 14 APR 2021 01:10:10

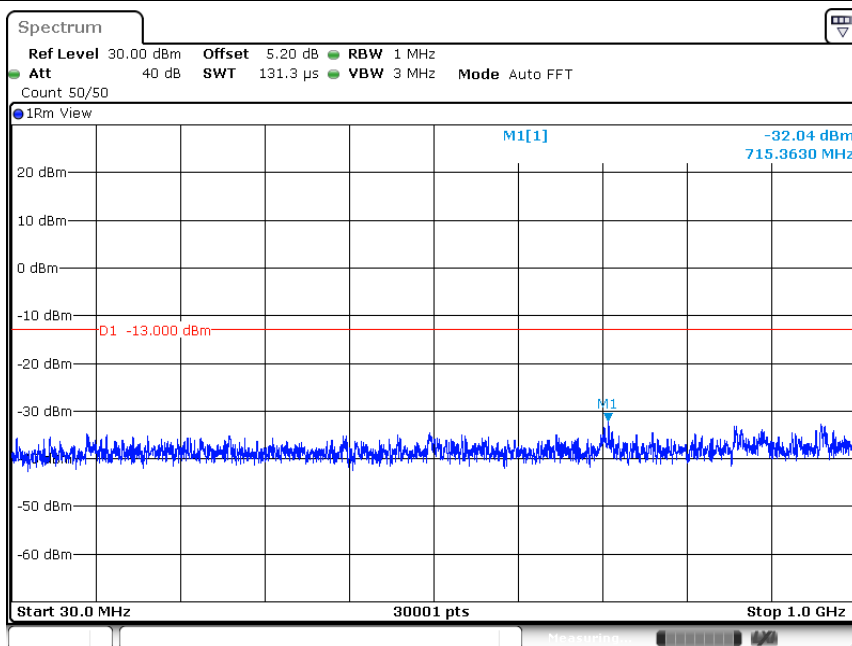


EGPRS1900-661-1000~20000MHz



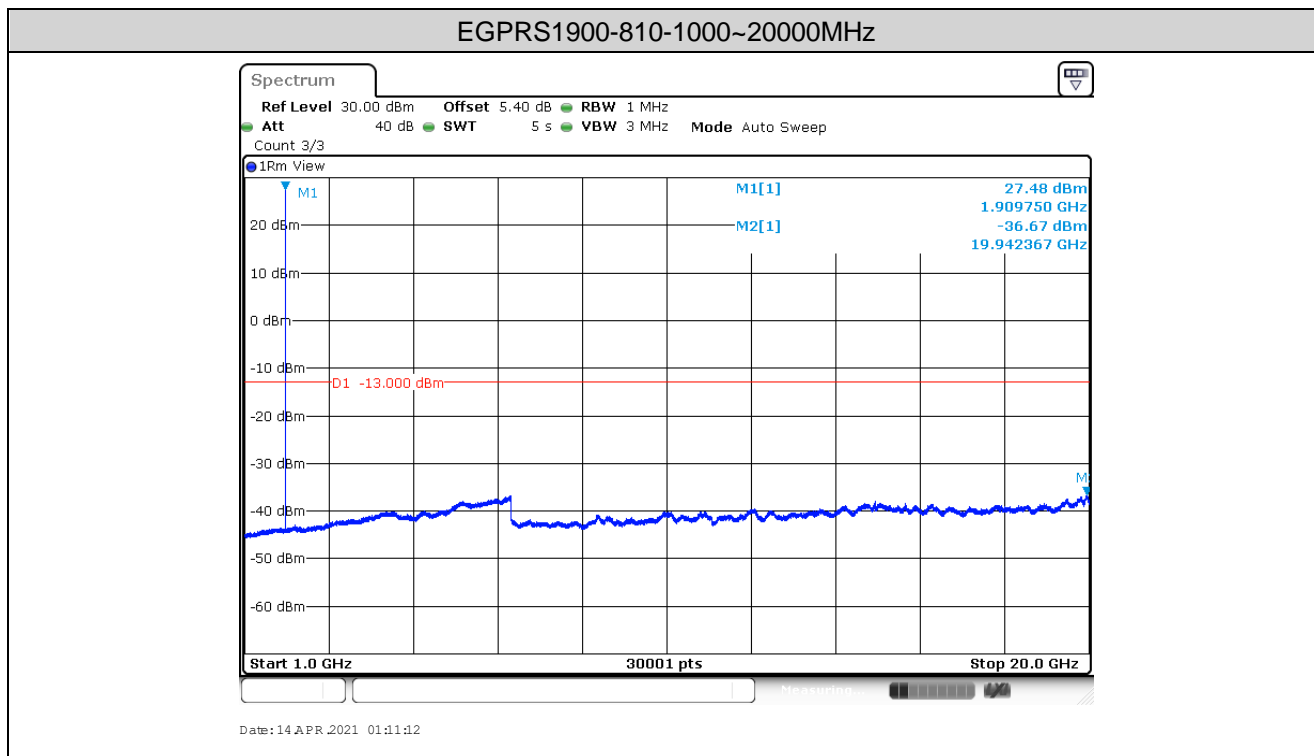
Date: 14 APR 2021 01:10:35

EGPRS1900-810-30~1000MHz



Date: 14 APR 2021 01:10:46





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7. Field Strength of Spurious Radiation

7.1. Test Band = GSM_850 ANT13

7.1.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.1863	-56.57	-47.49	-13.00	34.49	Horizontal
2	228.6075	-56.21	-51.39	-13.00	38.39	Horizontal
3	478.0188	-55.64	-49.17	-13.00	36.17	Horizontal
4	1648.2500	-63.50	-59.25	-13.00	46.25	Horizontal
5	3296.5766	-42.62	-51.36	-13.00	38.36	Horizontal
6	5274.1425	-54.13	-53.08	-13.00	40.08	Horizontal



7.2. Test Band = GSM_850 ANT13

7.2.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.7925	-56.85	-57.21	-13.00	44.21	Vertical
2	109.2975	-56.38	-47.67	-13.00	34.67	Vertical
3	460.9225	-56.74	-50.12	-13.00	37.12	Vertical
4	2227.7500	-61.99	-53.81	-13.00	40.81	Vertical
5	5326.6442	-54.26	-53.55	-13.00	40.55	Vertical
6	9062.9021	-56.99	-51.62	-13.00	38.62	Vertical



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7.3. Test Band = GSM_850 ANT13

7.3.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	45.6413	-56.80	-48.05	-13.00	35.05	Horizontal
2	230.5475	-57.28	-52.26	-13.00	39.26	Horizontal
3	488.9313	-55.92	-49.08	-13.00	36.08	Horizontal
4	1673.2500	-61.19	-57.05	-13.00	44.05	Horizontal
5	2510.5000	-59.54	-49.84	-13.00	36.84	Horizontal
6	3346.2782	-43.67	-52.00	-13.00	39.00	Horizontal



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7.4. Test Band = GSM_850 ANT13
7.4.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	49.5213	-56.97	-56.16	-13.00	43.16	Vertical
2	112.9350	-56.51	-47.89	-13.00	34.89	Vertical
3	454.3750	-55.67	-49.23	-13.00	36.23	Vertical
4	1673.2500	-63.95	-58.86	-13.00	45.86	Vertical
5	3346.0449	-50.19	-59.58	-13.00	46.58	Vertical
6	5314.7438	-54.29	-53.41	-13.00	40.41	Vertical



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7.5. Test Band = GSM_850 ANT13

7.5.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.9738	-56.67	-47.65	-13.00	34.65	Horizontal
2	233.3363	-56.46	-51.63	-13.00	38.63	Horizontal
3	534.7638	-56.36	-48.17	-13.00	35.17	Horizontal
4	1697.5000	-59.94	-55.96	-13.00	42.96	Horizontal
5	3395.0465	-45.04	-53.70	-13.00	40.70	Horizontal
6	5310.5437	-54.39	-52.94	-13.00	39.94	Horizontal
7	8702.1567	-55.82	-52.10	-13.00	39.10	Horizontal



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7.6. Test Band = GSM_850 ANT13

7.6.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	46.1263	-57.21	-57.14	-13.00	44.14	Vertical
2	113.5413	-57.12	-48.56	-13.00	35.56	Vertical
3	460.3163	-56.47	-49.82	-13.00	36.82	Vertical
4	2227.7500	-63.63	-55.45	-13.00	42.45	Vertical
5	5295.3765	-54.60	-53.61	-13.00	40.61	Vertical
6	9285.2762	-56.65	-49.72	-13.00	36.72	Vertical



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7.7. Test Band = GSM_1900 ANT13

7.7.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.8825	-66.25	-57.29	-13.00	44.29	Horizontal
2	229.4563	-66.24	-61.27	-13.00	48.27	Horizontal
3	745.3750	-66.60	-54.97	-13.00	41.97	Horizontal
4	3700.5234	-41.10	-48.34	-13.00	35.34	Horizontal
5	5323.5775	-54.46	-53.20	-13.00	40.20	Horizontal
6	16432.447	-57.04	-42.48	-13.00	29.48	Horizontal



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7.8. Test Band = GSM_1900 ANT13

7.8.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	50.0063	-65.09	-64.17	-13.00	51.17	Vertical
2	114.8750	-66.26	-57.83	-13.00	44.83	Vertical
3	623.1550	-64.60	-55.04	-13.00	42.04	Vertical
4	3700.0233	-45.75	-53.80	-13.00	40.80	Vertical
5	5298.0766	-54.49	-53.45	-13.00	40.45	Vertical
6	14700.390	-59.10	-45.48	-13.00	32.48	Vertical



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7.9. Test Band = GSM_1900 ANT13

7.9.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.2163	-66.58	-57.55	-13.00	44.55	Horizontal
2	225.8188	-65.38	-61.04	-13.00	48.04	Horizontal
3	686.4475	-65.77	-55.63	-13.00	42.63	Horizontal
4	3760.0253	-40.61	-47.24	-13.00	34.24	Horizontal
5	5297.0766	-54.80	-53.25	-13.00	40.25	Horizontal
6	16411.9471	-57.86	-42.45	-13.00	29.45	Horizontal



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7.10. Test Band = GSM_1900 ANT13
7.10.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	50.6125	-66.14	-65.27	-13.00	52.27	Vertical
2	115.6025	-65.66	-57.31	-13.00	44.31	Vertical
3	464.1963	-65.96	-59.46	-13.00	46.46	Vertical
4	3760.0253	-43.75	-51.04	-13.00	38.04	Vertical
5	5303.0768	-54.69	-53.65	-13.00	40.65	Vertical
6	14702.390	-58.37	-44.79	-13.00	31.79	Vertical



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7.11. Test Band = GSM_1900 ANT13
7.11.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.7925	-66.76	-57.65	-13.00	44.65	Horizontal
2	233.4575	-65.71	-60.89	-13.00	47.89	Horizontal
3	534.0363	-65.92	-57.73	-13.00	44.73	Horizontal
4	3819.5273	-37.78	-44.61	-13.00	31.61	Horizontal
5	5290.5764	-54.36	-52.95	-13.00	39.95	Horizontal
6	16395.946	-58.39	-42.66	-13.00	29.66	Horizontal



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7.12. Test Band = GSM_1900 ANT13

7.12.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	48.5513	-65.35	-64.75	-13.00	51.75	Vertical
2	113.5413	-66.20	-57.64	-13.00	44.64	Vertical
3	416.1813	-65.02	-59.76	-13.00	46.76	Vertical
4	3819.5273	-46.00	-53.42	-13.00	40.42	Vertical
5	5286.5762	-54.52	-53.70	-13.00	40.70	Vertical
6	14673.889	-59.19	-45.54	-13.00	32.54	Vertical



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7.13. Test Band = GSM_850 ANT41

7.13.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	45.1813	-67.58	-36.89	-13.00	23.89	Horizontal
2	232.4006	-66.89	-42.06	-13.00	29.06	Horizontal
3	525.8403	-65.25	-39.39	-13.00	26.39	Horizontal
4	1648.4000	-54.65	-35.79	-13.00	22.79	Horizontal
5	5308.2500	-46.32	-44.83	-13.00	31.83	Horizontal
6	9316.8000	-49.25	-42.55	-13.00	29.55	Horizontal



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7.14. Test Band = GSM_850 ANT41

7.14.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	47.6064	-66.98	-44.93	-13.00	31.93	Vertical
2	114.4912	-66.93	-37.99	-13.00	24.99	Vertical
3	337.0689	-66.18	-42.62	-13.00	29.62	Vertical
4	1648.5000	-63.68	-45.22	-13.00	32.22	Vertical
5	5301.9500	-46.85	-45.80	-13.00	32.80	Vertical
6	9282.8500	-49.99	-43.06	-13.00	30.06	Vertical



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7.15. Test Band = GSM_850 ANT41

7.15.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.8531	-67.05	-36.34	-13.00	23.34	Horizontal
2	230.8000	-66.42	-41.58	-13.00	28.58	Horizontal
3	1673.1000	-60.94	-41.97	-13.00	28.97	Horizontal
4	2510.0000	-69.13	-45.99	-13.00	32.99	Horizontal
5	5333.1000	-47.32	-46.21	-13.00	33.21	Horizontal
6	9296.1500	-49.94	-43.20	-13.00	30.20	Horizontal



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7.16. Test Band = GSM_850 ANT41

7.16.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	50.3225	-67.25	-44.72	-13.00	31.72	Vertical
2	109.4470	-66.59	-37.29	-13.00	24.29	Vertical
3	337.2144	-66.20	-42.64	-13.00	29.64	Vertical
4	1673.2000	-69.58	-50.99	-13.00	37.99	Vertical
5	5315.9500	-47.94	-47.08	-13.00	34.08	Vertical
6	9384.3500	-49.78	-43.08	-13.00	30.08	Vertical



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7.17. Test Band = GSM_850 ANT41

7.17.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	39.6520	-66.24	-35.75	-13.00	22.75	Horizontal
2	229.5875	-66.44	-41.67	-13.00	28.67	Horizontal
3	1697.4000	-58.54	-39.46	-13.00	26.46	Horizontal
4	2546.5000	-68.65	-45.44	-13.00	32.44	Horizontal
5	5313.5000	-46.72	-45.31	-13.00	32.31	Horizontal
6	9435.8000	-48.97	-42.54	-13.00	29.54	Horizontal



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7.18. Test Band = GSM_850 ANT41

7.18.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	47.6064	-67.20	-45.15	-13.00	32.15	Vertical
2	111.2416	-66.97	-37.68	-13.00	24.68	Vertical
3	460.4590	-66.38	-41.58	-13.00	28.58	Vertical
4	1697.7000	-59.46	-40.75	-13.00	27.75	Vertical
5	5329.9500	-47.52	-46.85	-13.00	33.85	Vertical
6	9307.3500	-50.19	-43.31	-13.00	30.31	Vertical



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7.19. Test Band = GSM_1900 ANT31

7.19.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.1880	-79.43	-70.35	-13.00	57.35	Horizontal
2	240.6376	-78.12	-73.73	-13.00	60.73	Horizontal
3	623.1079	-77.57	-67.82	-13.00	54.82	Horizontal
4	5294.5000	-48.19	-46.70	-13.00	33.70	Horizontal
5	10934.500	-51.01	-42.37	-13.00	29.37	Horizontal
6	16917.000	-49.95	-34.72	-13.00	21.72	Horizontal



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7.20. Test Band = GSM_1900 ANT31

7.20.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	46.8559	-79.82	-79.59	-13.00	66.59	Vertical
2	109.9137	-78.71	-69.82	-13.00	56.82	Vertical
3	676.8284	-77.65	-67.58	-13.00	54.58	Vertical
4	5293.0000	-47.78	-46.84	-13.00	33.84	Vertical
5	14556.500	-51.69	-37.45	-13.00	24.45	Vertical
6	17984.500	-51.73	-32.25	-13.00	19.25	Vertical



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7.21. Test Band = GSM_1900 ANT31
7.21.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.8242	-79.44	-70.38	-13.00	57.38	Horizontal
2	241.6077	-78.27	-73.83	-13.00	60.83	Horizontal
3	743.5242	-77.19	-65.63	-13.00	52.63	Horizontal
4	5364.0000	-47.12	-46.57	-13.00	33.57	Horizontal
5	10251.500	-49.41	-41.98	-13.00	28.98	Horizontal
6	16950.500	-49.56	-33.84	-13.00	20.84	Horizontal



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7.22. Test Band = GSM_1900 ANT31
7.22.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	48.7961	-79.34	-78.68	-13.00	65.68	Vertical
2	108.5798	-78.80	-70.31	-13.00	57.31	Vertical
3	614.4981	-77.84	-68.13	-13.00	55.13	Vertical
4	5266.0000	-47.85	-47.44	-13.00	34.44	Vertical
5	14708.000	-51.70	-38.24	-13.00	25.24	Vertical
6	17935.500	-50.10	-30.85	-13.00	17.85	Vertical



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7.23. Test Band = GSM_1900 ANT31

7.23.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.7328	-79.43	-70.42	-13.00	57.42	Horizontal
2	228.2685	-78.33	-73.57	-13.00	60.57	Horizontal
3	819.3149	-77.37	-65.07	-13.00	52.07	Horizontal
4	3819.0000	-42.33	-49.16	-13.00	36.16	Horizontal
5	5732.0000	-36.31	-37.83	-13.00	24.83	Horizontal
6	16409.000	-51.16	-35.63	-13.00	22.63	Horizontal



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7.24. Test Band = GSM_1900 ANT31

7.24.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	45.8857	-78.80	-78.79	-13.00	65.79	Vertical
2	118.1598	-78.19	-70.09	-13.00	57.09	Vertical
3	369.7850	-78.46	-73.71	-13.00	60.71	Vertical
4	605.2819	-77.84	-68.30	-13.00	55.30	Vertical
5	5312.0000	-46.78	-45.86	-13.00	32.86	Vertical
6	14683.000	-50.82	-37.18	-13.00	24.18	Vertical

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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3)

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	-12.66	-0.015360	±2.5	PASS
GSM850	128	VN	NT	-15.82	-0.019194	±2.5	PASS
GSM850	128	VH	NT	-14.53	-0.017629	±2.5	PASS
GSM850	190	VL	NT	-13.85	-0.016555	±2.5	PASS
GSM850	190	VN	NT	-17.31	-0.020691	±2.5	PASS
GSM850	190	VH	NT	-13.69	-0.016364	±2.5	PASS
GSM850	251	VL	NT	-19.98	-0.023539	±2.5	PASS
GSM850	251	VN	NT	-14.40	-0.016965	±2.5	PASS
GSM850	251	VH	NT	-14.08	-0.016588	±2.5	PASS
EGPRS850	128	VL	NT	-1.61	-0.001953	±2.5	PASS
EGPRS850	128	VN	NT	-6.42	-0.007789	±2.5	PASS
EGPRS850	128	VH	NT	-6.26	-0.007595	±2.5	PASS
EGPRS850	190	VL	NT	-2.97	-0.003550	±2.5	PASS
EGPRS850	190	VN	NT	-4.65	-0.005558	±2.5	PASS
EGPRS850	190	VH	NT	-7.65	-0.009144	±2.5	PASS
EGPRS850	251	VL	NT	0.45	0.000530	±2.5	PASS
EGPRS850	251	VN	NT	-3.62	-0.004265	±2.5	PASS
EGPRS850	251	VH	NT	-3.33	-0.003923	±2.5	PASS
GSM1900	512	VL	NT	-3.91	-0.002113	±2.5	PASS
GSM1900	512	VN	NT	-7.59	-0.004102	±2.5	PASS
GSM1900	512	VH	NT	-8.56	-0.004627	±2.5	PASS
GSM1900	661	VL	NT	-6.55	-0.003484	±2.5	PASS



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GSM1900	661	VN	NT	-6.94	-0.003691	±2.5	PASS
GSM1900	661	VH	NT	-6.65	-0.003537	±2.5	PASS
GSM1900	810	VL	NT	-11.69	-0.006121	±2.5	PASS
GSM1900	810	VN	NT	-2.52	-0.001320	±2.5	PASS
GSM1900	810	VH	NT	-11.78	-0.006168	±2.5	PASS
EGPRS1900	512	VL	NT	-18.18	-0.009826	±2.5	PASS
EGPRS1900	512	VN	NT	-15.88	-0.008583	±2.5	PASS
EGPRS1900	512	VH	NT	-12.49	-0.006751	±2.5	PASS
EGPRS1900	661	VL	NT	-11.40	-0.006064	±2.5	PASS
EGPRS1900	661	VN	NT	-12.75	-0.006782	±2.5	PASS
EGPRS1900	661	VH	NT	-13.33	-0.007090	±2.5	PASS
EGPRS1900	810	VL	NT	-16.82	-0.008807	±2.5	PASS
EGPRS1900	810	VN	NT	-17.01	-0.008907	±2.5	PASS
EGPRS1900	810	VH	NT	-18.47	-0.009671	±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	-12.11	-0.014693	±2.5	PASS
GSM850	128	NV	-20	-14.85	-0.018017	±2.5	PASS
GSM850	128	NV	-10	-14.50	-0.017593	±2.5	PASS
GSM850	128	NV	0	-14.14	-0.017156	±2.5	PASS
GSM850	128	NV	10	-12.56	-0.015239	±2.5	PASS
GSM850	128	NV	20	-12.30	-0.014924	±2.5	PASS
GSM850	128	NV	30	-13.11	-0.015906	±2.5	PASS
GSM850	128	NV	40	-15.30	-0.018563	±2.5	PASS
GSM850	128	NV	50	-12.07	-0.014645	±2.5	PASS
GSM850	190	NV	-30	-16.72	-0.019986	±2.5	PASS



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GSM850	190	NV	-20	-10.40	-0.012431	±2.5	PASS
GSM850	190	NV	-10	-13.79	-0.016483	±2.5	PASS
GSM850	190	NV	0	-16.08	-0.019221	±2.5	PASS
GSM850	190	NV	10	-11.46	-0.013698	±2.5	PASS
GSM850	190	NV	20	-13.85	-0.016555	±2.5	PASS
GSM850	190	NV	30	-13.37	-0.015981	±2.5	PASS
GSM850	190	NV	40	-11.14	-0.013316	±2.5	PASS
GSM850	190	NV	50	-13.37	-0.015981	±2.5	PASS
GSM850	251	NV	-30	-15.69	-0.018485	±2.5	PASS
GSM850	251	NV	-20	-16.37	-0.019286	±2.5	PASS
GSM850	251	NV	-10	-14.59	-0.017189	±2.5	PASS
GSM850	251	NV	0	-18.53	-0.021831	±2.5	PASS
GSM850	251	NV	10	-17.72	-0.020877	±2.5	PASS
GSM850	251	NV	20	-13.66	-0.016093	±2.5	PASS
GSM850	251	NV	30	-15.37	-0.018108	±2.5	PASS
GSM850	251	NV	40	-17.37	-0.020464	±2.5	PASS
GSM850	251	NV	50	-15.14	-0.017837	±2.5	PASS
EGPRS850	128	NV	-30	-3.75	-0.004550	±2.5	PASS
EGPRS850	128	NV	-20	-7.01	-0.008505	±2.5	PASS
EGPRS850	128	NV	-10	-3.87	-0.004695	±2.5	PASS
EGPRS850	128	NV	0	-4.71	-0.005715	±2.5	PASS
EGPRS850	128	NV	10	-2.87	-0.003482	±2.5	PASS
EGPRS850	128	NV	20	-1.10	-0.001335	±2.5	PASS
EGPRS850	128	NV	30	0.26	0.000315	±2.5	PASS
EGPRS850	128	NV	40	-5.00	-0.006066	±2.5	PASS
EGPRS850	128	NV	50	-1.23	-0.001492	±2.5	PASS
EGPRS850	190	NV	-30	-3.03	-0.003622	±2.5	PASS
EGPRS850	190	NV	-20	-5.36	-0.006407	±2.5	PASS



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0							
EGPRS85 0	190	NV	-10	-5.68	-0.006789	±2.5	PASS
EGPRS85 0	190	NV	0	-2.20	-0.002630	±2.5	PASS
EGPRS85 0	190	NV	10	-1.42	-0.001697	±2.5	PASS
EGPRS85 0	190	NV	20	0.06	0.000072	±2.5	PASS
EGPRS85 0	190	NV	30	-7.39	-0.008833	±2.5	PASS
EGPRS85 0	190	NV	40	-2.36	-0.002821	±2.5	PASS
EGPRS85 0	190	NV	50	-3.23	-0.003861	±2.5	PASS
EGPRS85 0	251	NV	-30	-3.81	-0.004489	±2.5	PASS
EGPRS85 0	251	NV	-20	-4.39	-0.005172	±2.5	PASS
EGPRS85 0	251	NV	-10	-5.88	-0.006927	±2.5	PASS
EGPRS85 0	251	NV	0	-7.04	-0.008294	±2.5	PASS
EGPRS85 0	251	NV	10	-1.16	-0.001367	±2.5	PASS
EGPRS85 0	251	NV	20	-5.29	-0.006232	±2.5	PASS
EGPRS85 0	251	NV	30	-1.74	-0.002050	±2.5	PASS
EGPRS85 0	251	NV	40	-2.10	-0.002474	±2.5	PASS
EGPRS85 0	251	NV	50	-6.81	-0.008023	±2.5	PASS
GSM1900	512	NV	-30	-2.91	-0.001573	±2.5	PASS
GSM1900	512	NV	-20	-3.78	-0.002043	±2.5	PASS
GSM1900	512	NV	-10	-3.84	-0.002075	±2.5	PASS
GSM1900	512	NV	0	-8.88	-0.004799	±2.5	PASS
GSM1900	512	NV	10	-11.75	-0.006351	±2.5	PASS



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GSM1900	512	NV	20	-1.78	-0.000962	±2.5	PASS
GSM1900	512	NV	30	-10.85	-0.005864	±2.5	PASS
GSM1900	512	NV	40	-6.72	-0.003632	±2.5	PASS
GSM1900	512	NV	50	-4.71	-0.002546	±2.5	PASS
GSM1900	661	NV	-30	-4.68	-0.002489	±2.5	PASS
GSM1900	661	NV	-20	-6.01	-0.003197	±2.5	PASS
GSM1900	661	NV	-10	-6.20	-0.003298	±2.5	PASS
GSM1900	661	NV	0	-4.75	-0.002527	±2.5	PASS
GSM1900	661	NV	10	-6.17	-0.003282	±2.5	PASS
GSM1900	661	NV	20	-3.65	-0.001941	±2.5	PASS
GSM1900	661	NV	30	-2.74	-0.001457	±2.5	PASS
GSM1900	661	NV	40	-9.23	-0.004910	±2.5	PASS
GSM1900	661	NV	50	-9.56	-0.005085	±2.5	PASS
GSM1900	810	NV	-30	-4.81	-0.002519	±2.5	PASS
GSM1900	810	NV	-20	-6.07	-0.003178	±2.5	PASS
GSM1900	810	NV	-10	-4.55	-0.002382	±2.5	PASS
GSM1900	810	NV	0	-4.26	-0.002231	±2.5	PASS
GSM1900	810	NV	10	-6.91	-0.003618	±2.5	PASS
GSM1900	810	NV	20	-7.14	-0.003739	±2.5	PASS
GSM1900	810	NV	30	-6.39	-0.003346	±2.5	PASS
GSM1900	810	NV	40	-9.49	-0.004969	±2.5	PASS
GSM1900	810	NV	50	-8.23	-0.004309	±2.5	PASS
EGPRS1900	512	NV	-30	-16.18	-0.008745	±2.5	PASS
EGPRS1900	512	NV	-20	-14.69	-0.007940	±2.5	PASS
EGPRS1900	512	NV	-10	-12.14	-0.006561	±2.5	PASS
EGPRS1900	512	NV	0	-9.17	-0.004956	±2.5	PASS
EGPRS1900	512	NV	10	-19.11	-0.010329	±2.5	PASS
EGPRS1900	512	NV	20	-16.37	-0.008848	±2.5	PASS
EGPRS1900	512	NV	30	-15.50	-0.008377	±2.5	PASS
EGPRS1900	512	NV	40	-11.14	-0.006021	±2.5	PASS



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EGPRS19 00	512	NV	50	-13.88	-0.007502	±2.5	PASS
EGPRS19 00	661	NV	-30	-15.11	-0.008037	±2.5	PASS
EGPRS19 00	661	NV	-20	-15.95	-0.008484	±2.5	PASS
EGPRS19 00	661	NV	-10	-11.88	-0.006319	±2.5	PASS
EGPRS19 00	661	NV	0	-18.66	-0.009926	±2.5	PASS
EGPRS19 00	661	NV	10	-12.17	-0.006473	±2.5	PASS
EGPRS19 00	661	NV	20	-11.69	-0.006218	±2.5	PASS
EGPRS19 00	661	NV	30	-9.88	-0.005255	±2.5	PASS
EGPRS19 00	661	NV	40	-9.91	-0.005271	±2.5	PASS
EGPRS19 00	661	NV	50	-15.43	-0.008207	±2.5	PASS
EGPRS19 00	810	NV	-30	-10.62	-0.005561	±2.5	PASS
EGPRS19 00	810	NV	-20	-14.24	-0.007456	±2.5	PASS
EGPRS19 00	810	NV	-10	-16.82	-0.008807	±2.5	PASS
EGPRS19 00	810	NV	0	-13.66	-0.007153	±2.5	PASS
EGPRS19 00	810	NV	10	-17.08	-0.008943	±2.5	PASS
EGPRS19 00	810	NV	20	-12.01	-0.006289	±2.5	PASS
EGPRS19 00	810	NV	30	-12.88	-0.006744	±2.5	PASS
EGPRS19 00	810	NV	40	-16.69	-0.008739	±2.5	PASS
EGPRS19 00	810	NV	50	-15.66	-0.008200	±2.5	PASS



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The End

