Appendix B

GSM 850 & 1900

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1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.11	25.06	38.45	PASS
GSM850	190	---	32.15	25.1	38.45	PASS
GSM850	251	---	32.15	25.1	38.45	PASS
EGPRS850	128	1	26.66	19.61	38.45	PASS
EGPRS850	128	2	26.49	19.44	38.45	PASS
EGPRS850	128	3	24.94	17.89	38.45	PASS
EGPRS850	128	4	23.54	16.49	38.45	PASS
EGPRS850	190	1	26.81	19.76	38.45	PASS
EGPRS850	190	2	26.54	19.49	38.45	PASS
EGPRS850	190	3	25.07	18.02	38.45	PASS
EGPRS850	190	4	23.69	16.64	38.45	PASS
EGPRS850	251	1	26.85	19.8	38.45	PASS
EGPRS850	251	2	26.61	19.56	38.45	PASS
EGPRS850	251	3	25.20	18.15	38.45	PASS
EGPRS850	251	4	23.76	16.71	38.45	PASS

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.38	27.18	33.00	PASS
GSM1900	661	---	29.40	27.2	33.00	PASS
GSM1900	810	---	29.60	27.4	33.00	PASS
EGPRS1900	512	1	25.12	22.92	33.00	PASS
EGPRS1900	512	2	25.02	22.82	33.00	PASS
EGPRS1900	512	3	23.59	21.39	33.00	PASS
EGPRS1900	512	4	22.14	19.94	33.00	PASS
EGPRS1900	661	1	25.08	22.88	33.00	PASS
EGPRS1900	661	2	25.00	22.8	33.00	PASS
EGPRS1900	661	3	23.63	21.43	33.00	PASS
EGPRS1900	661	4	22.27	20.07	33.00	PASS
EGPRS1900	810	1	25.17	22.97	33.00	PASS
EGPRS1900	810	2	25.16	22.96	33.00	PASS
EGPRS1900	810	3	24.03	21.83	33.00	PASS
EGPRS1900	810	4	22.57	20.37	33.00	PASS

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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	8.87	13	PASS
GSM850	190	8.9	13	PASS
GSM850	251	8.9	13	PASS
EGPRS850	128	12.72	13	PASS
EGPRS850	190	11.91	13	PASS
EGPRS850	251	11.88	13	PASS
GSM1900	512	8.9	13	PASS
GSM1900	661	8.96	13	PASS
GSM1900	810	8.93	13	PASS
EGPRS1900	512	12.67	13	PASS
EGPRS1900	661	11.62	13	PASS
EGPRS1900	810	11.88	13	PASS

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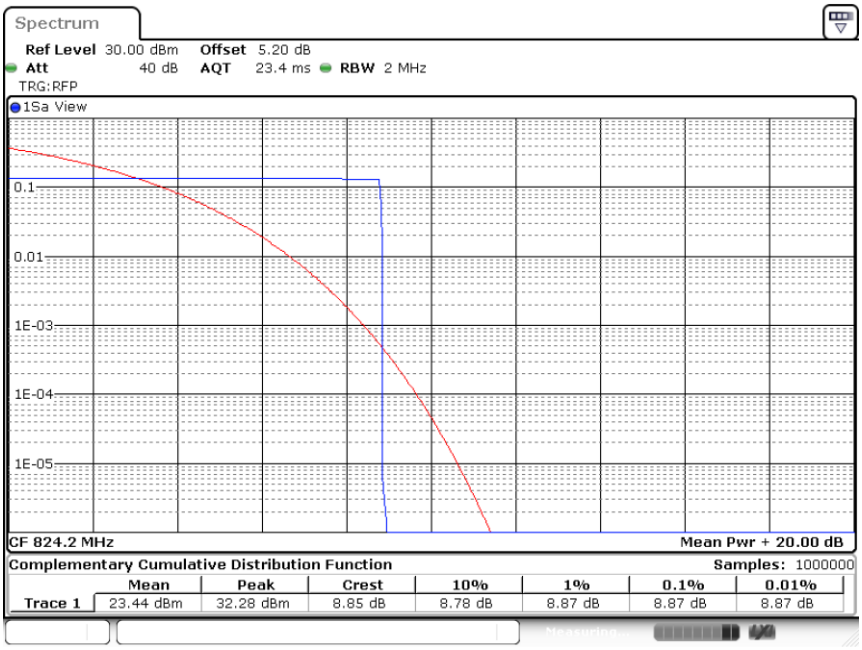
2.2. Part II - Test Plots

GSM850-128



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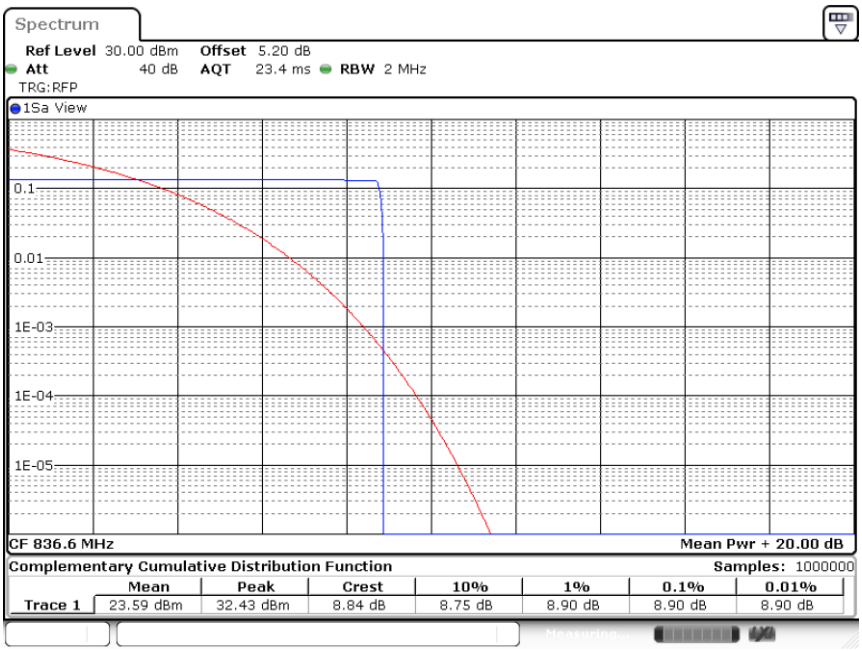

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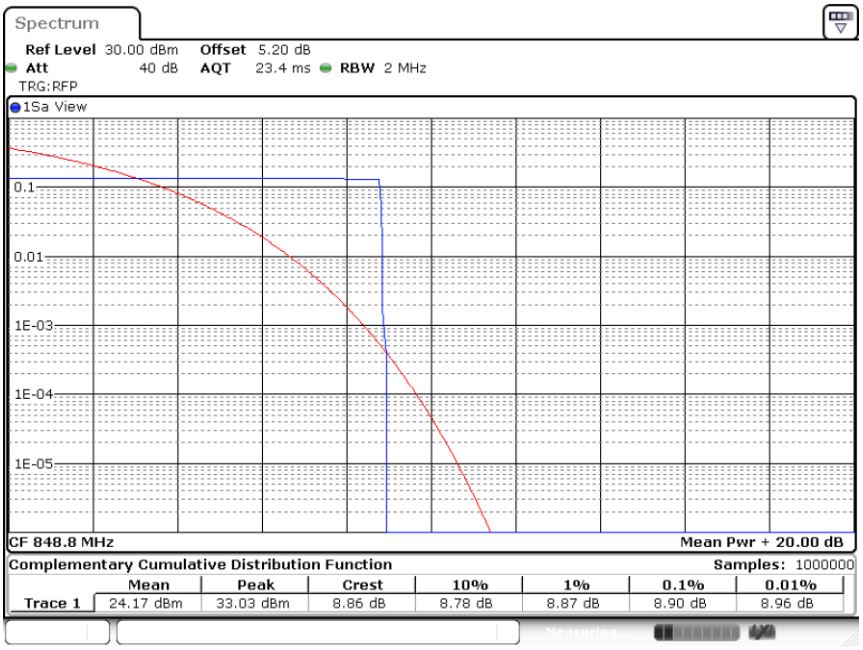

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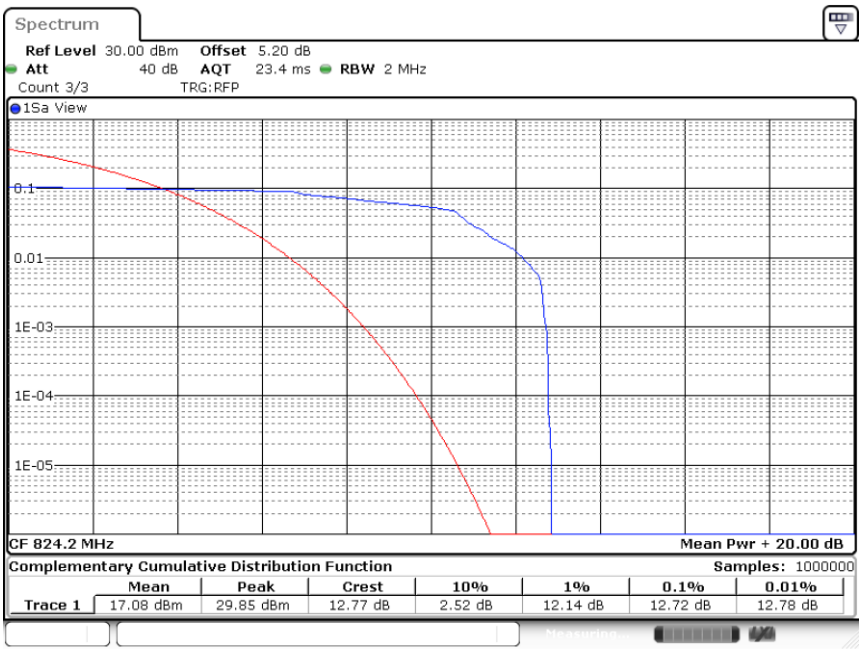

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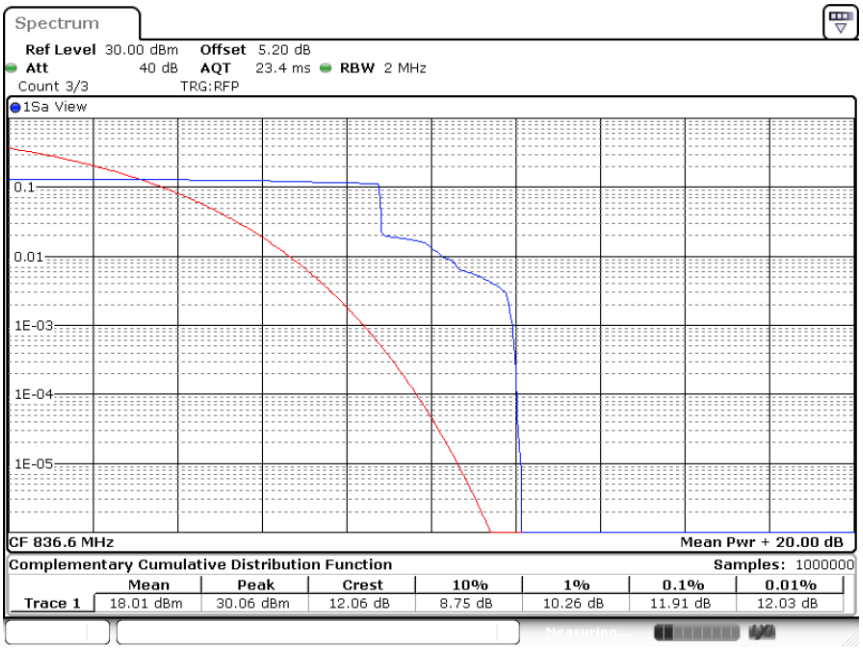

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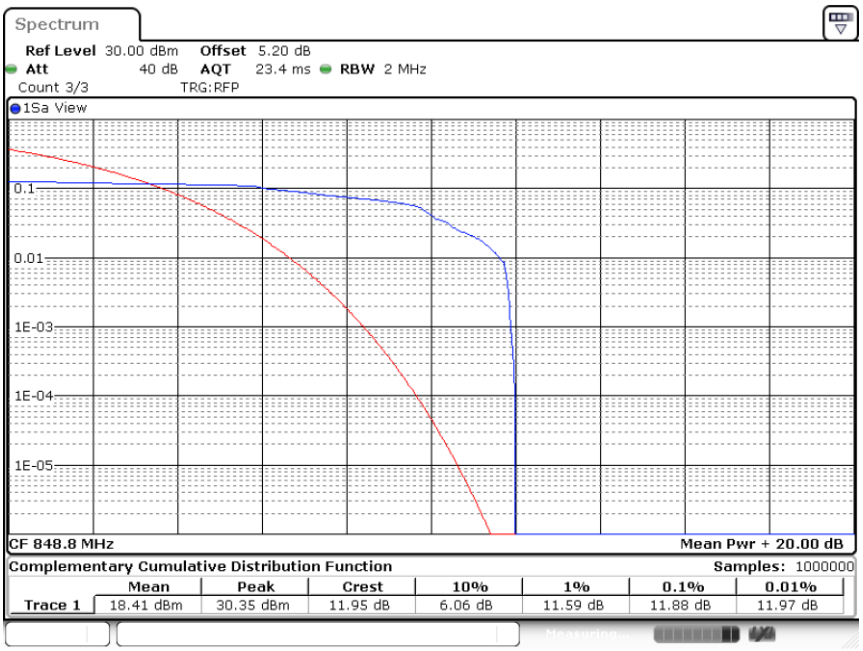

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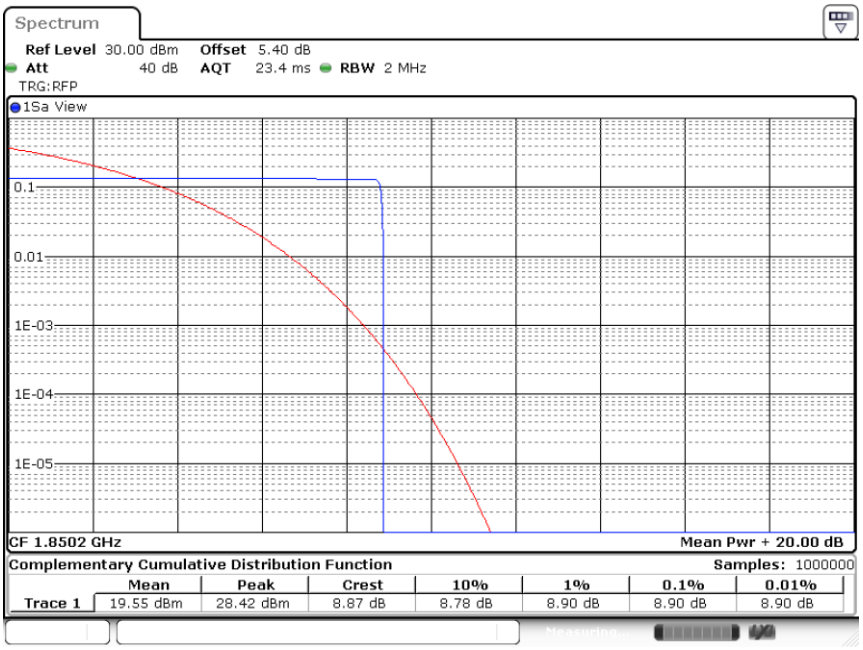

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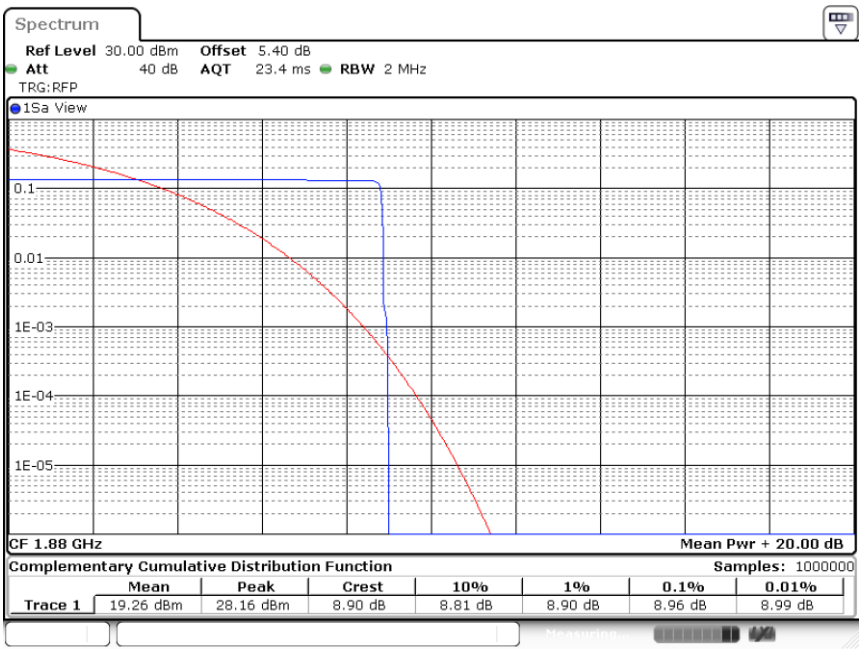

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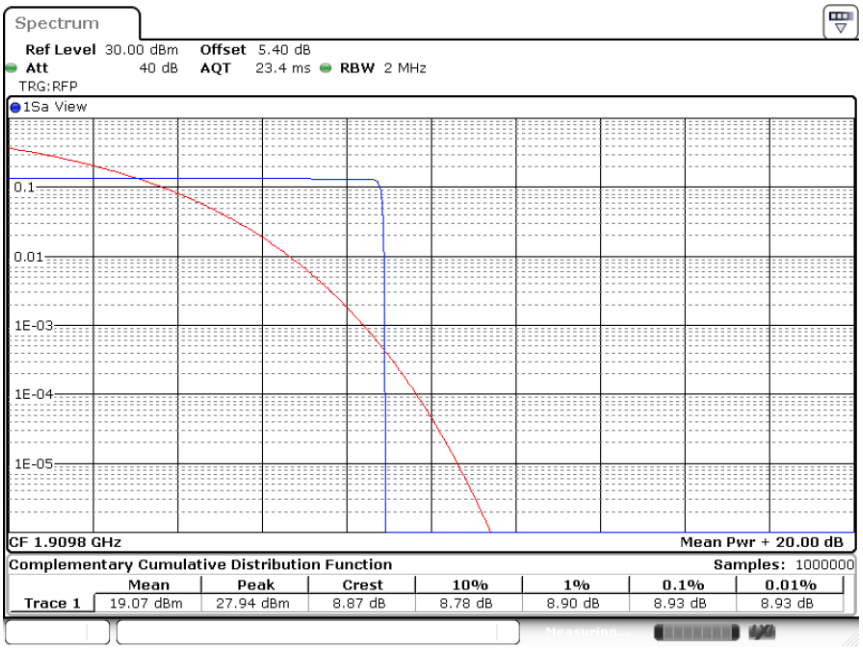

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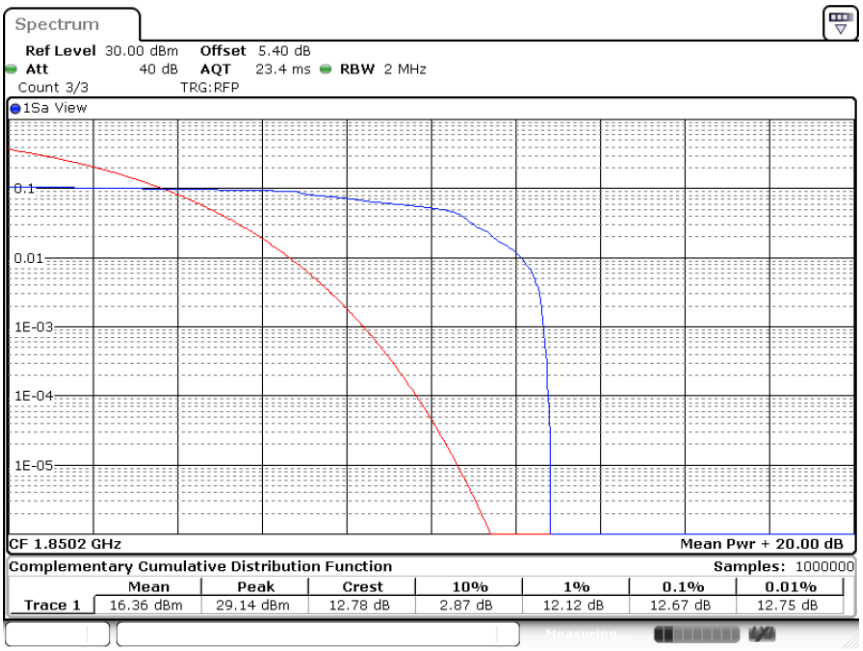

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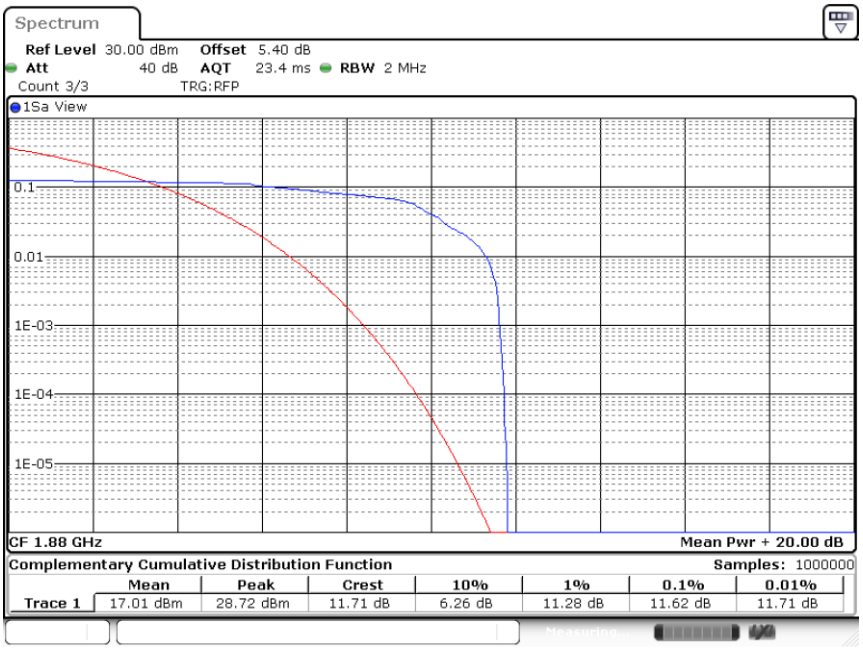

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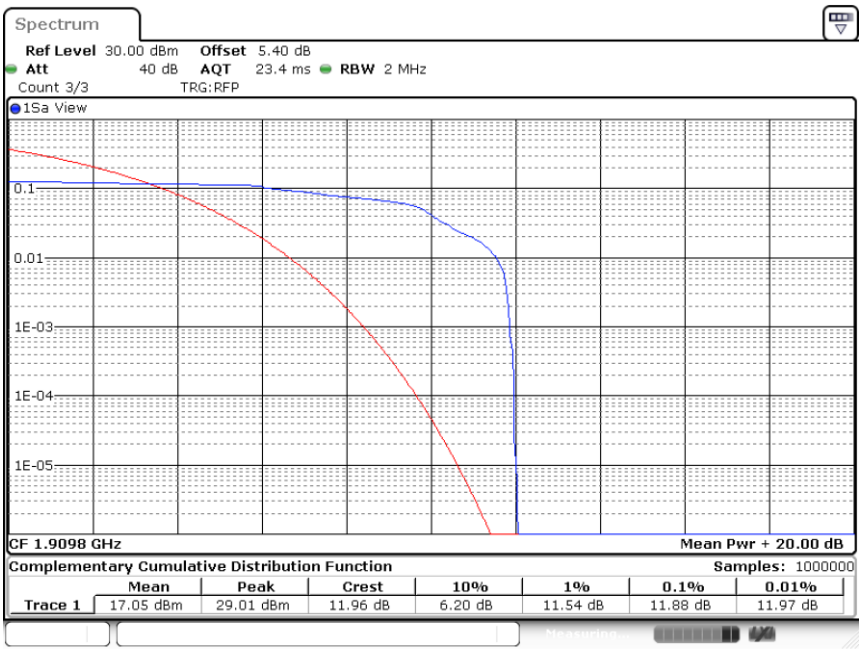

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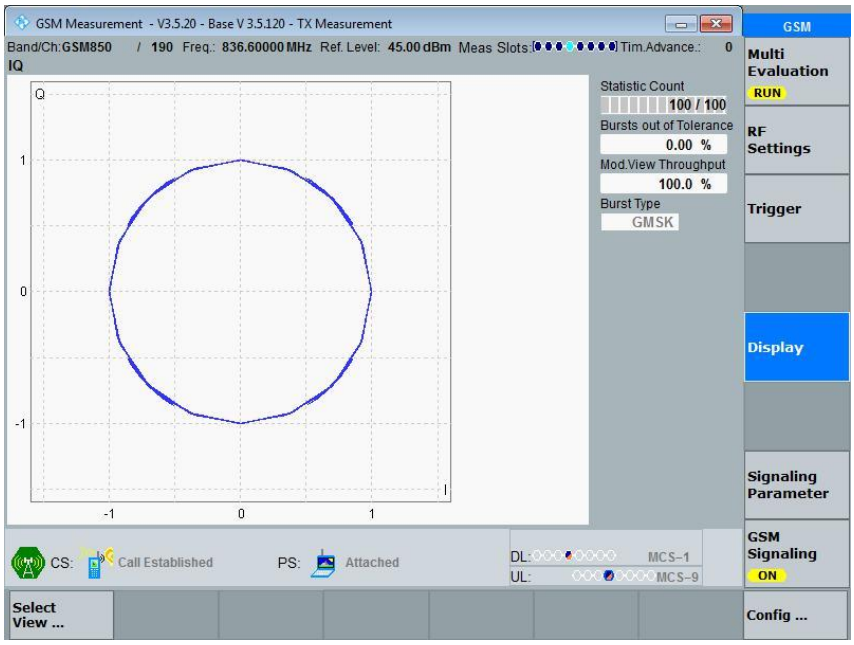
3. Modulation Characteristics

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



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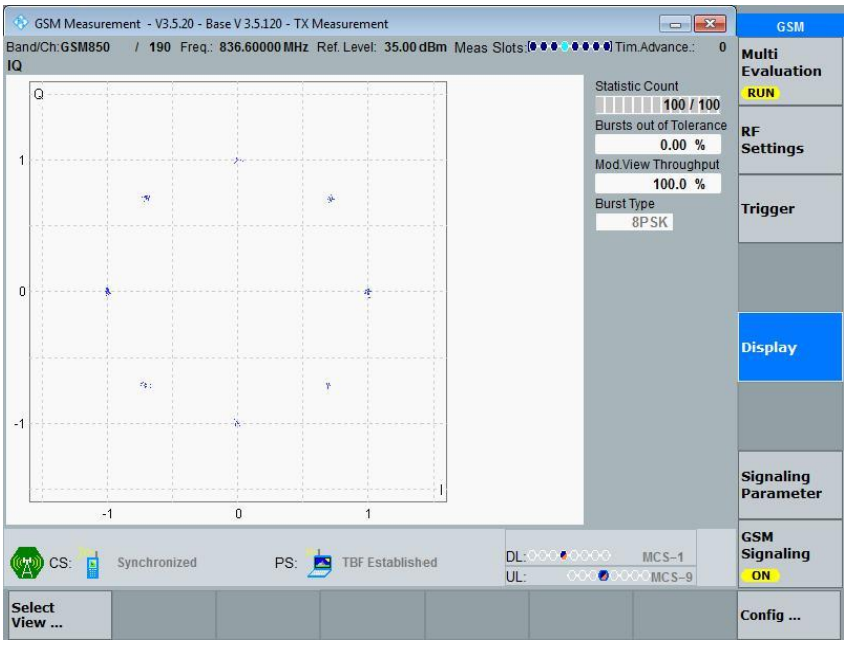
3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH



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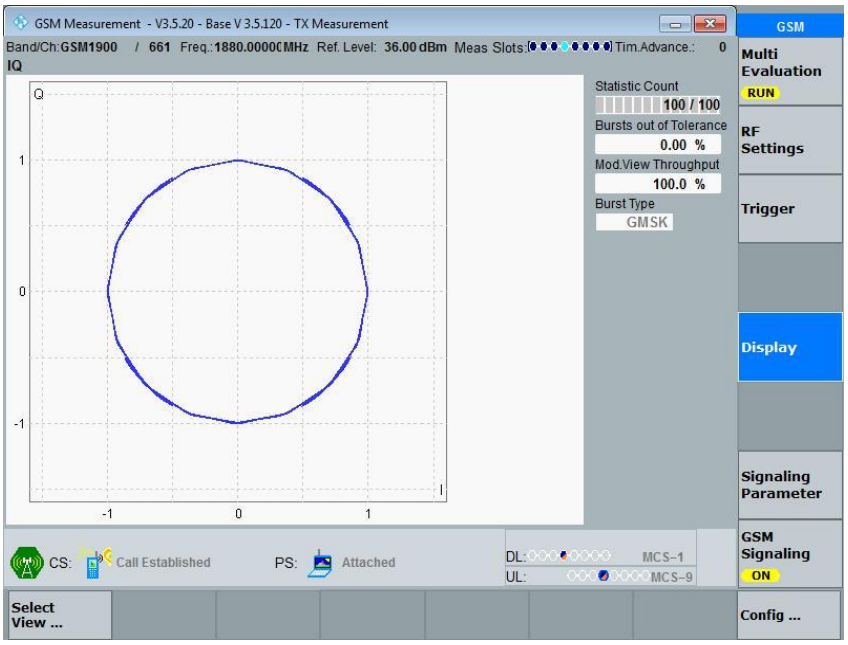
3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

3.1.2.1.1. Test Channel = MCH



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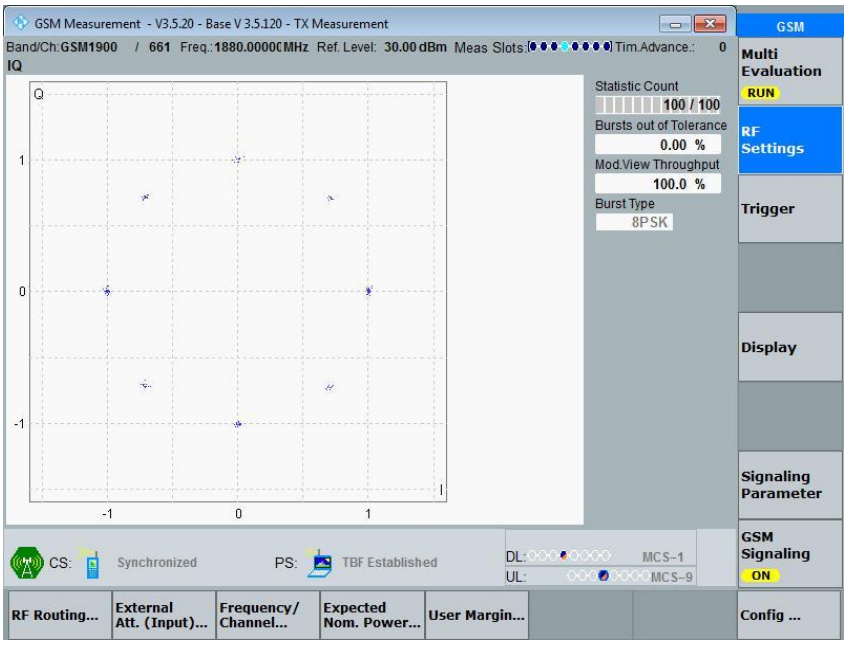
3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



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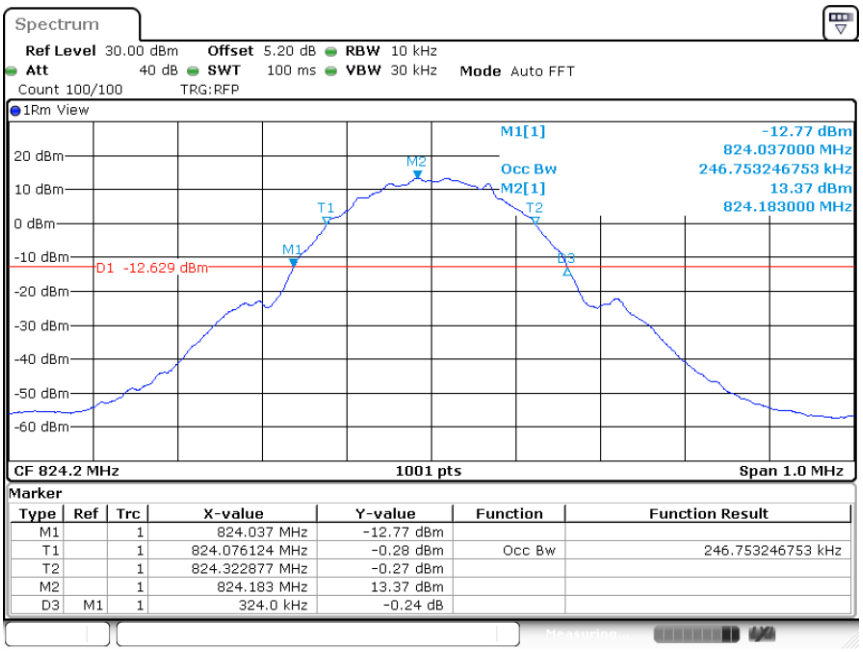
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.247	0.324	---	PASS
GSM850	190	0.248	0.324	---	PASS
GSM850	251	0.248	0.324	---	PASS
EGPRS850	128	0.247	0.318	---	PASS
EGPRS850	190	0.247	0.318	---	PASS
EGPRS850	251	0.245	0.316	---	PASS
GSM1900	512	0.247	0.323	---	PASS
GSM1900	661	0.247	0.323	---	PASS
GSM1900	810	0.247	0.323	---	PASS
EGPRS1900	512	0.246	0.316	---	PASS
EGPRS1900	661	0.247	0.318	---	PASS
EGPRS1900	810	0.245	0.315	---	PASS

4.2. Test Plots

GSM850-128



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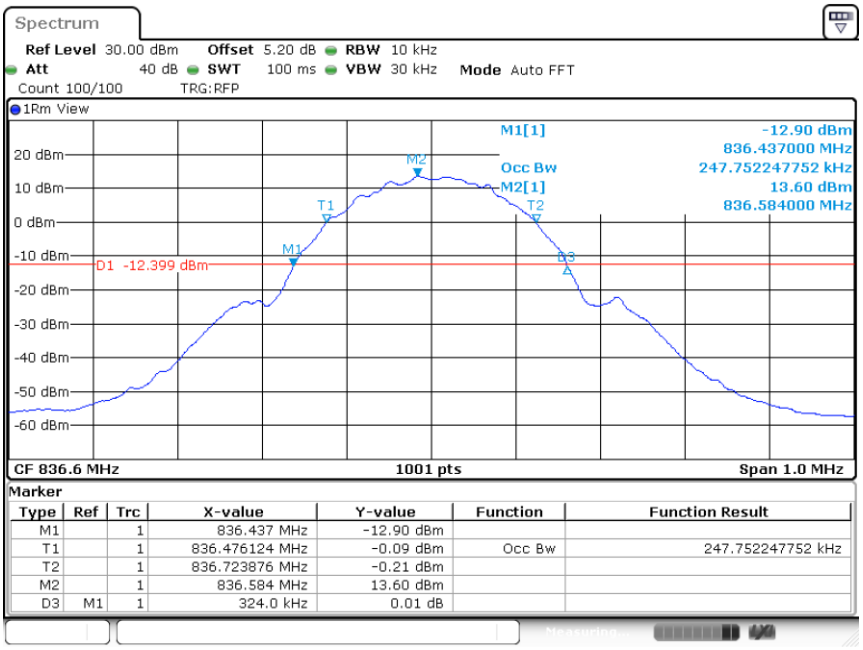

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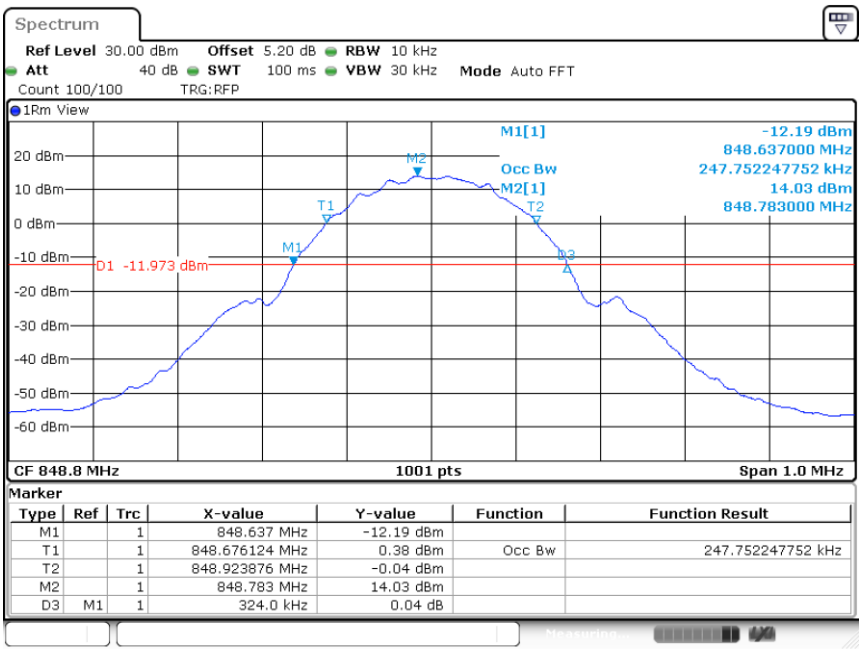
GSM850-251



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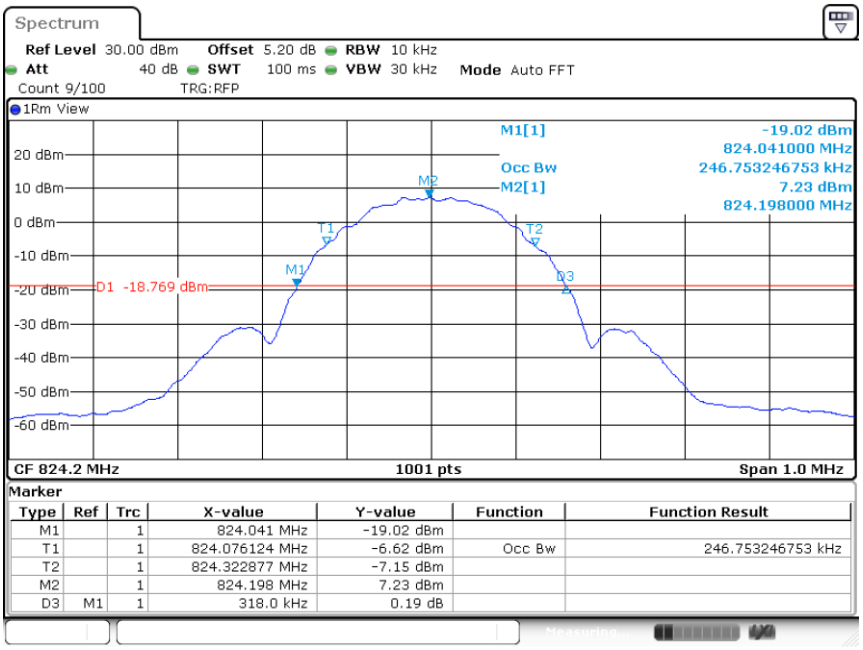

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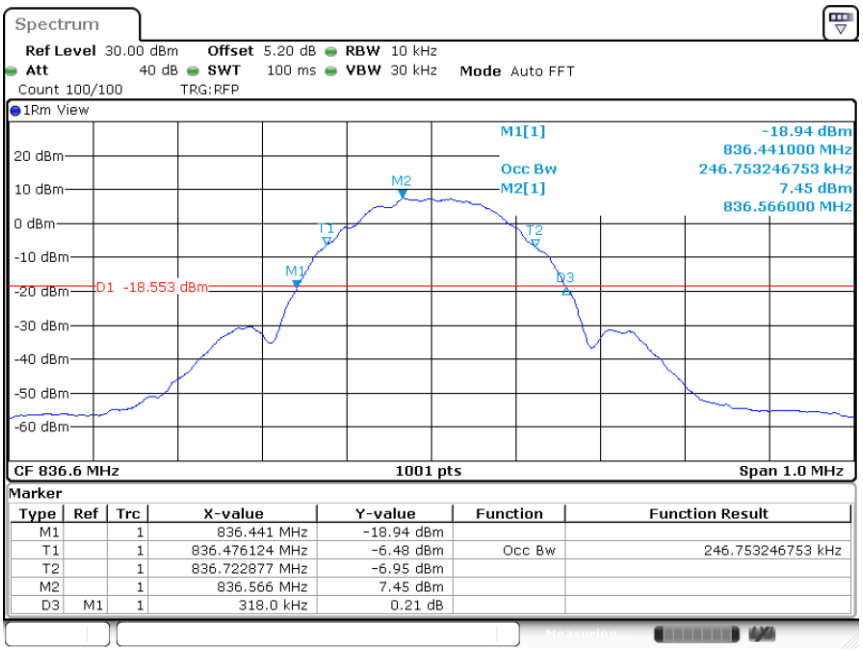

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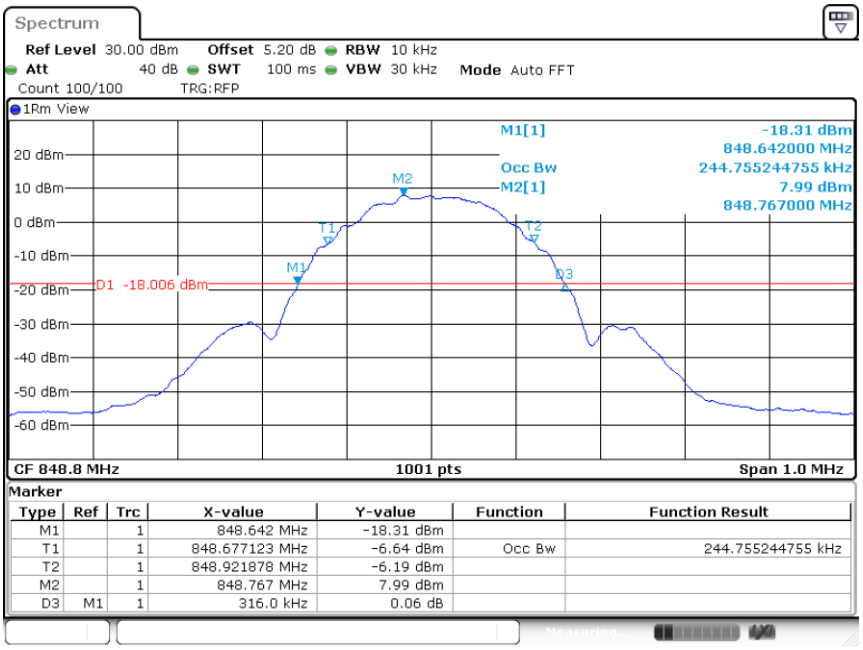

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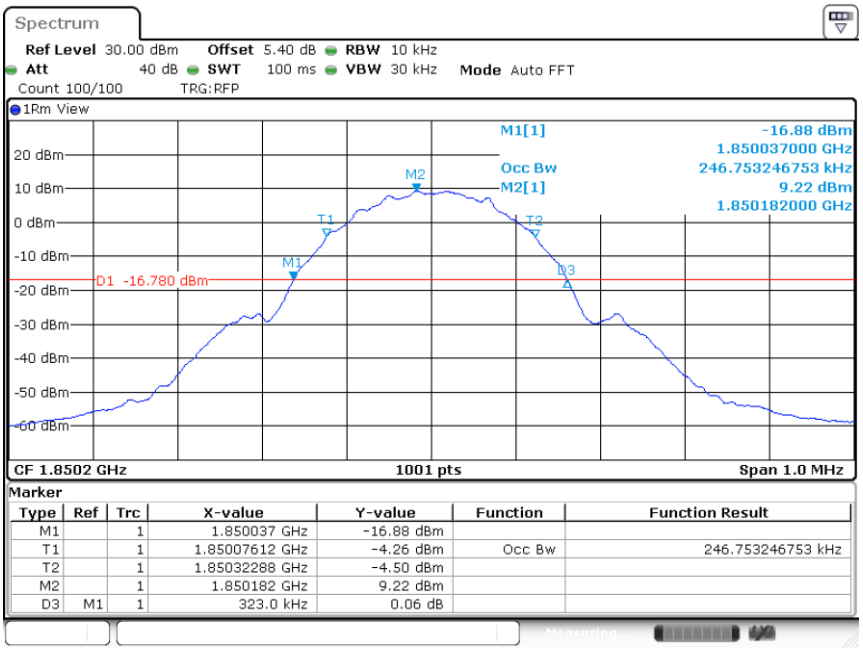

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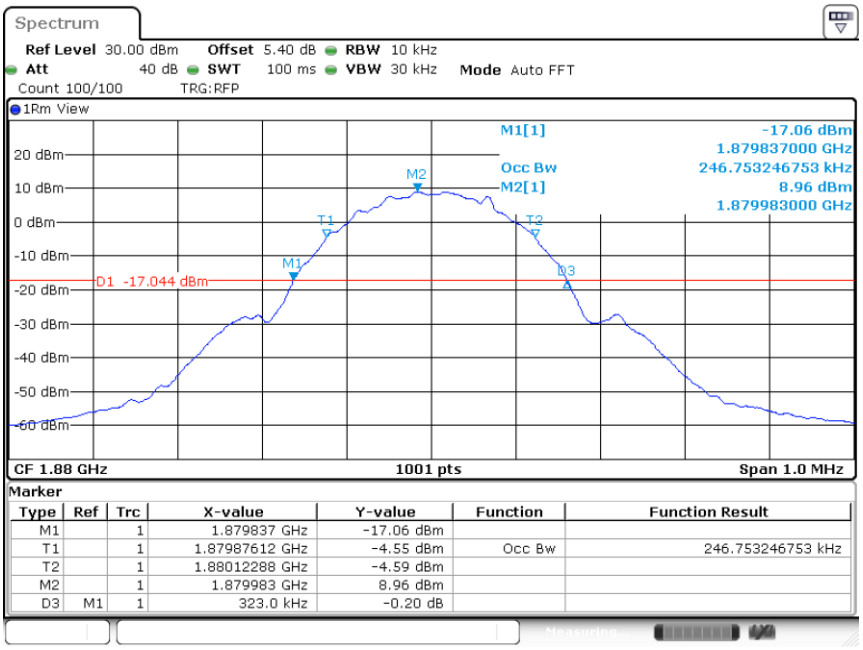

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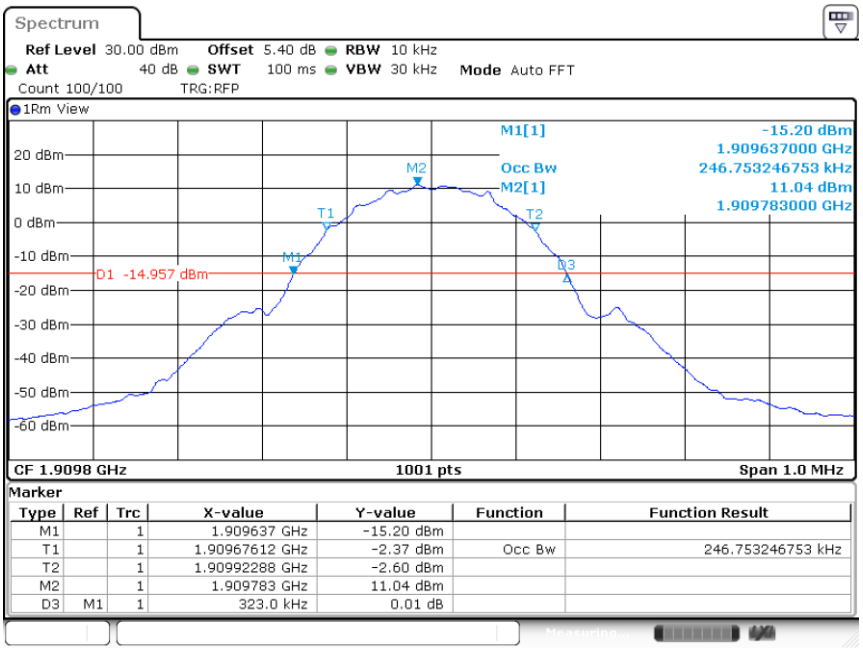
GSM1900-810



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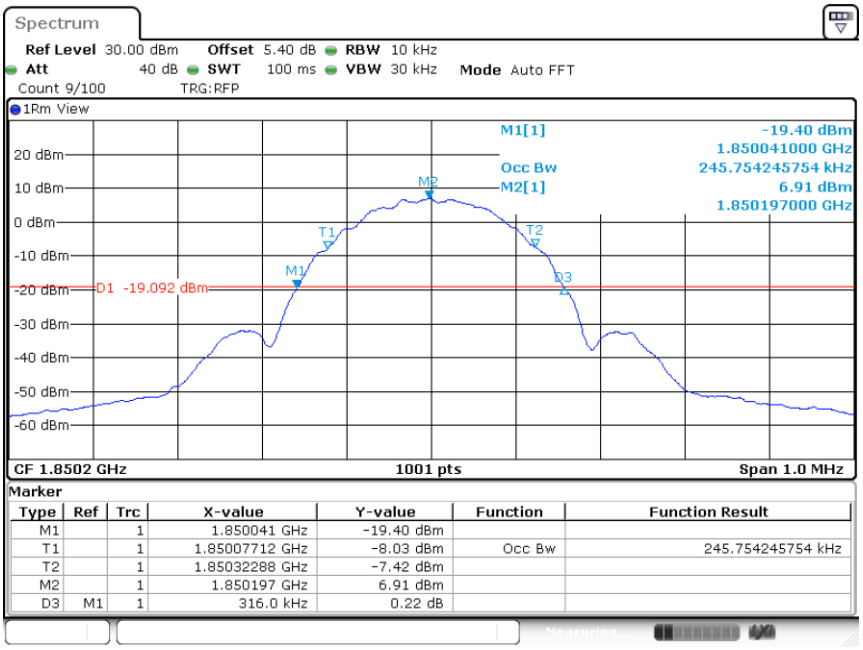
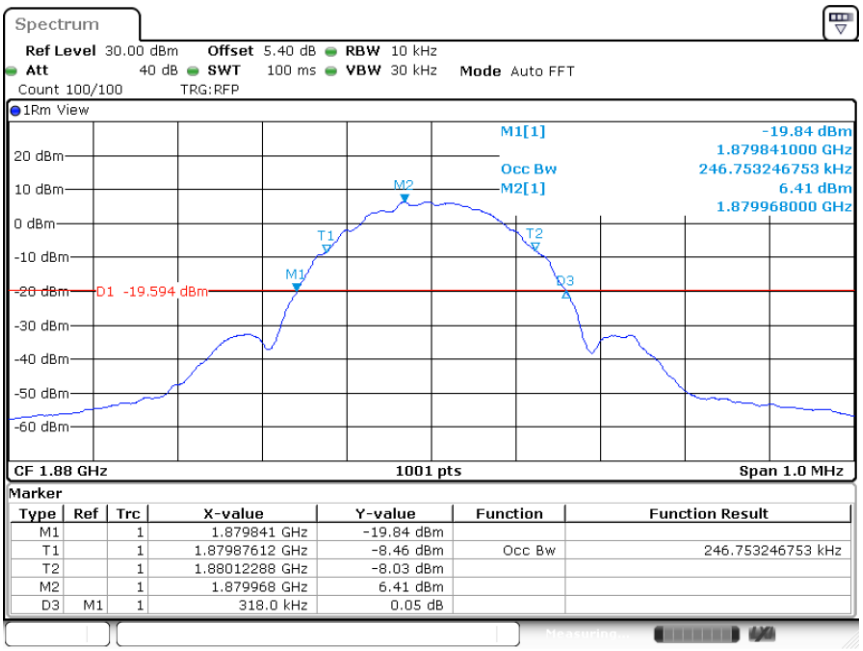


Date: 21.OCT.2020 15:41:30

EGPRS1900-661



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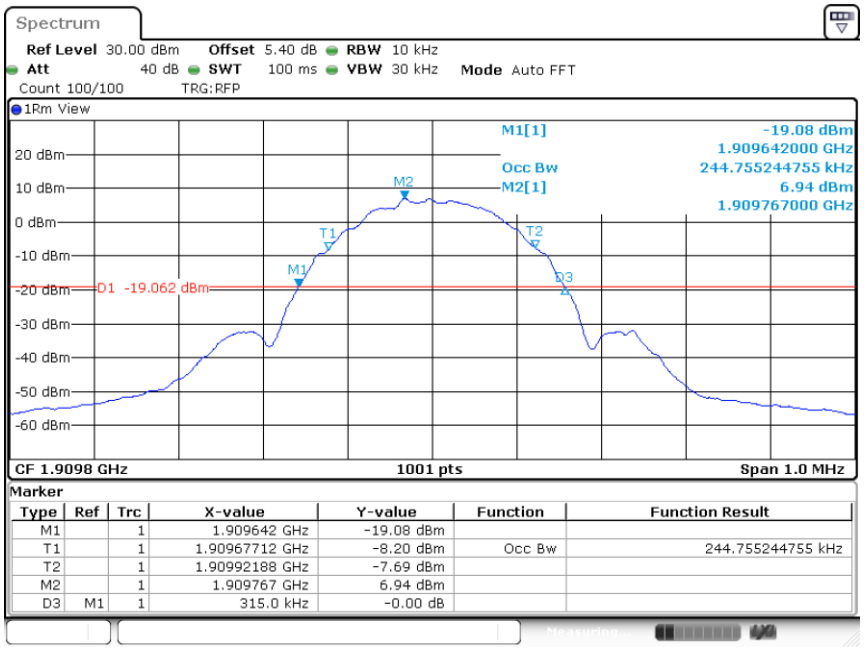

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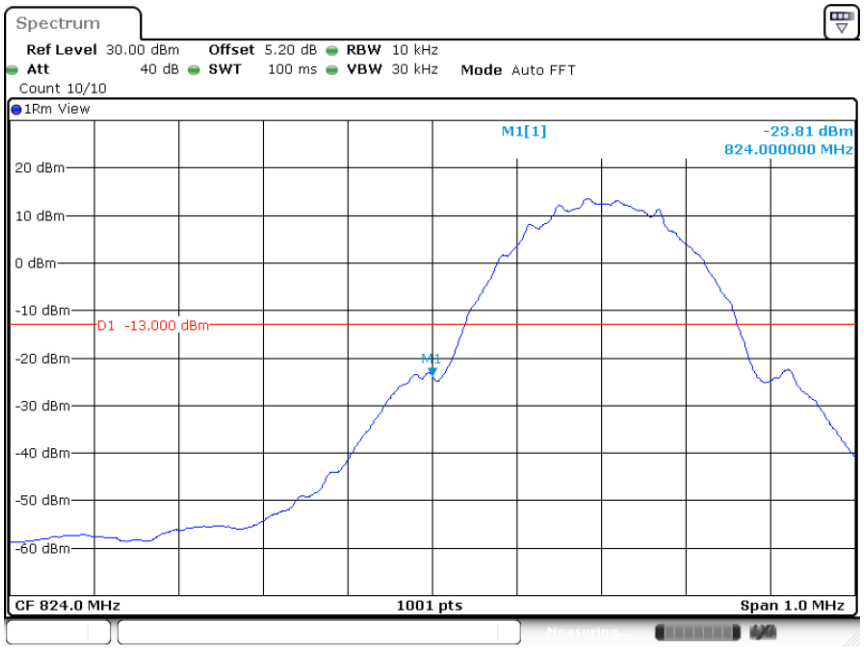
5. Band Edge Compliance

5.1. Test Plots

GSM850-128



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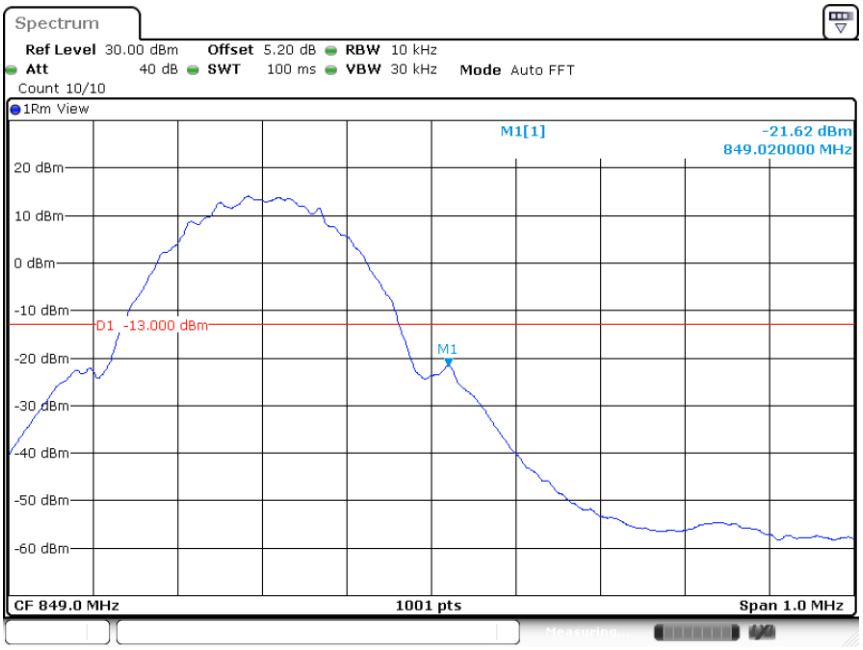
GSM850-251



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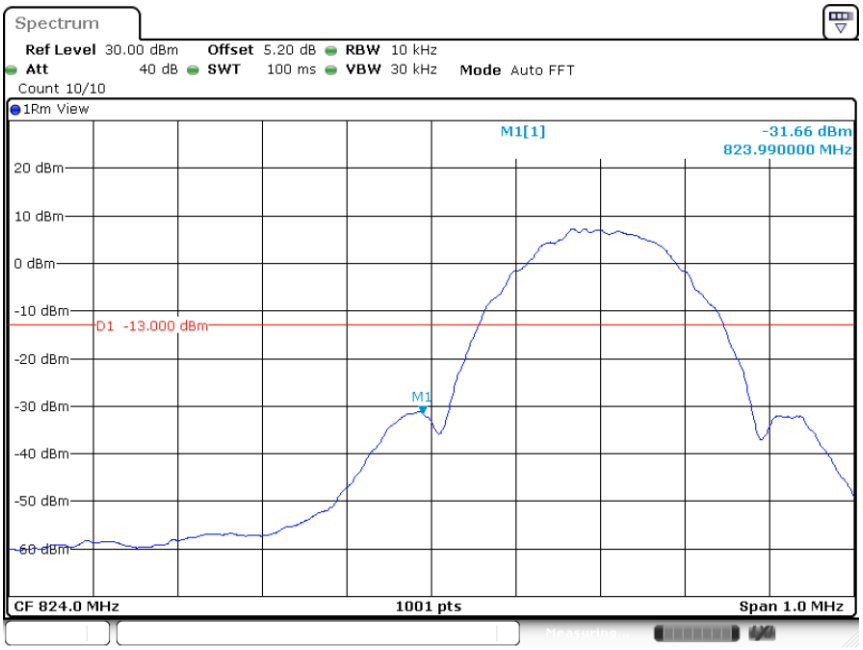
EGPRS850-128



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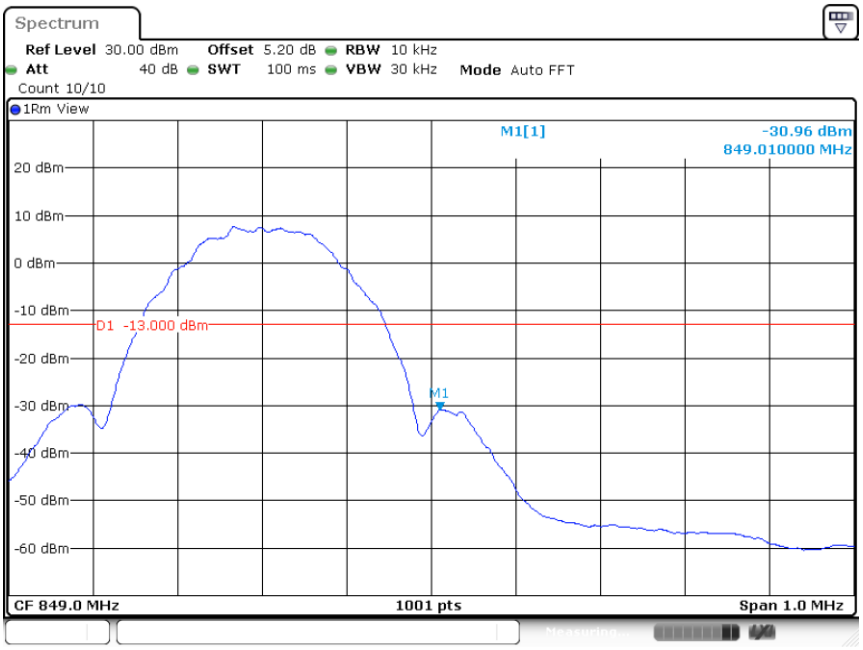

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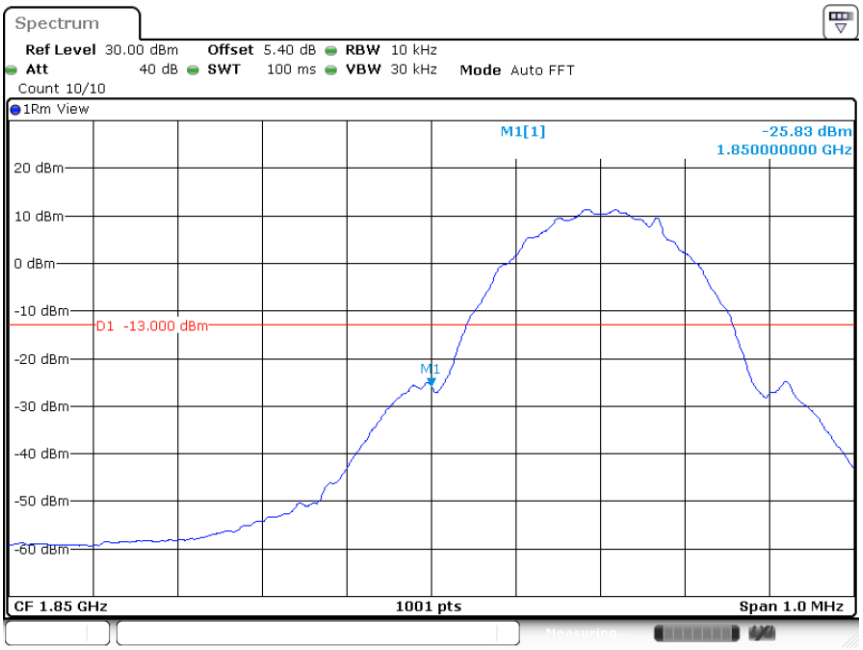
GSM1900-512



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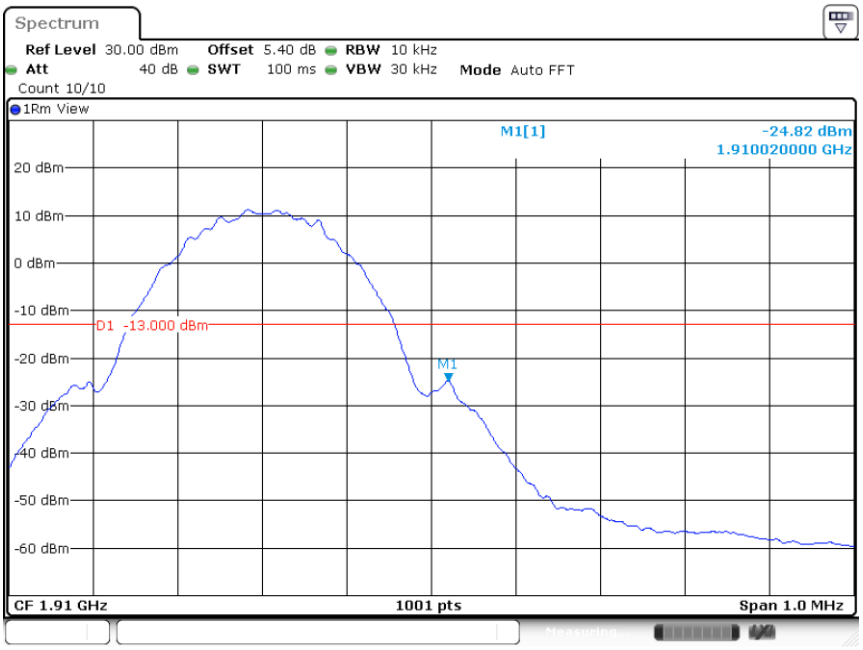
GSM1900-810



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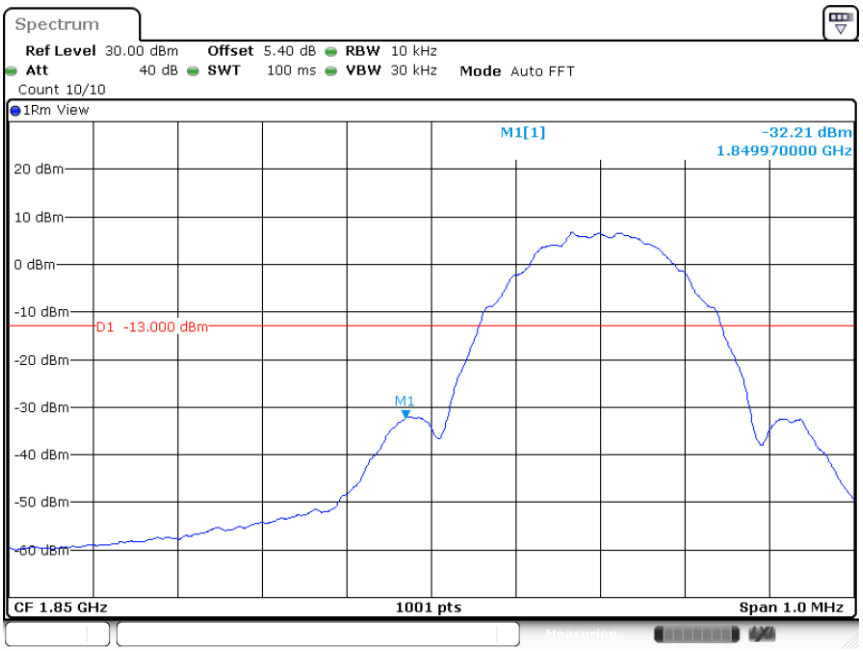

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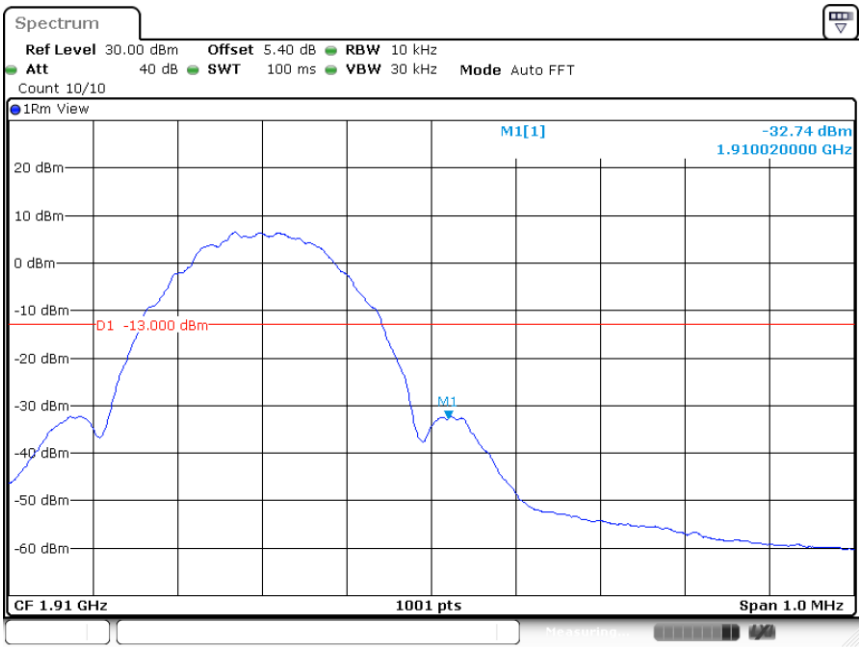

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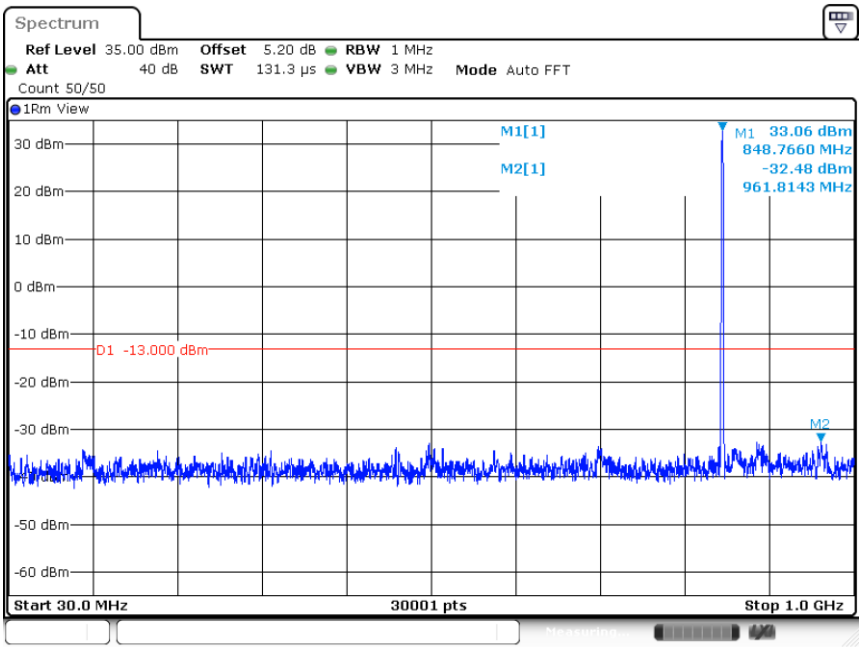
6. Spurious Emission at Antenna Terminal

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 * (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

GSM850-128-30~1000MHz



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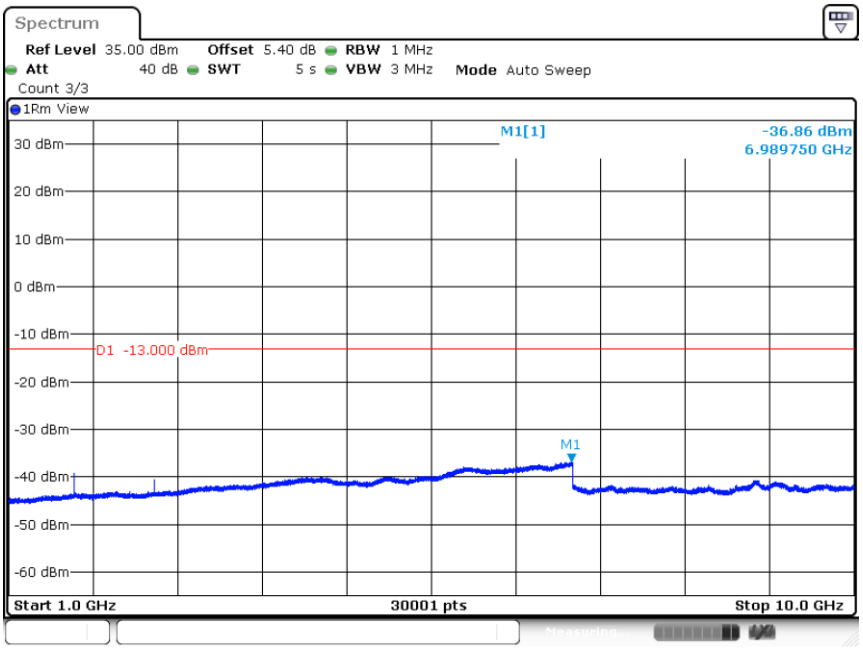
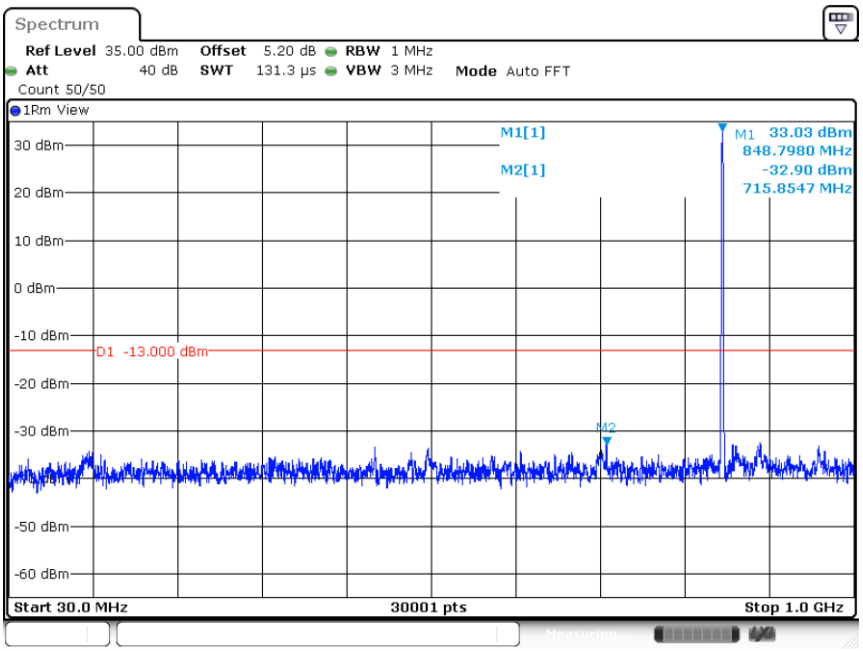
GSM850-128-1000~10000MHz



Date: 21.OCT.2020 15:48:49

GSM850-190-30~1000MHz



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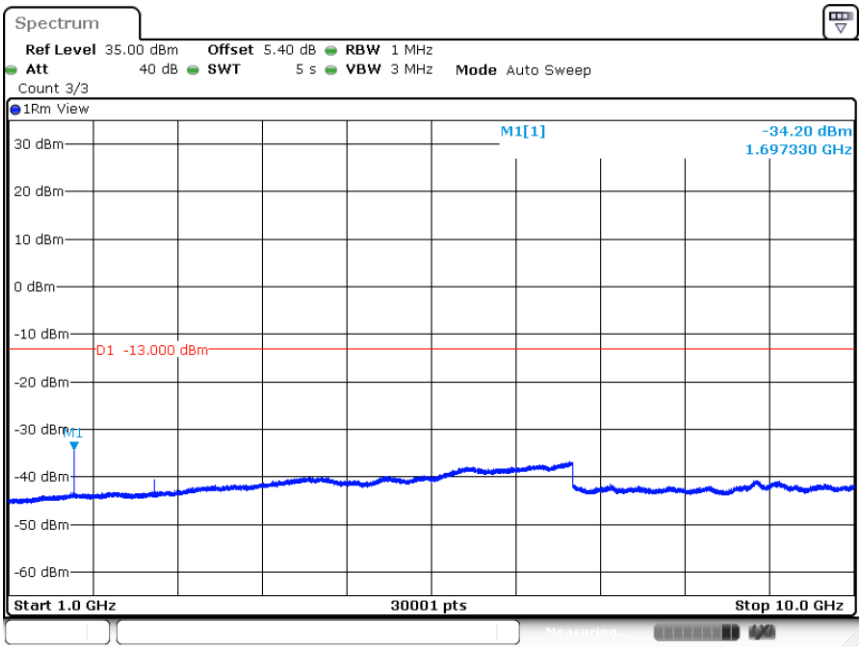
GSM850-190-1000~10000MHz



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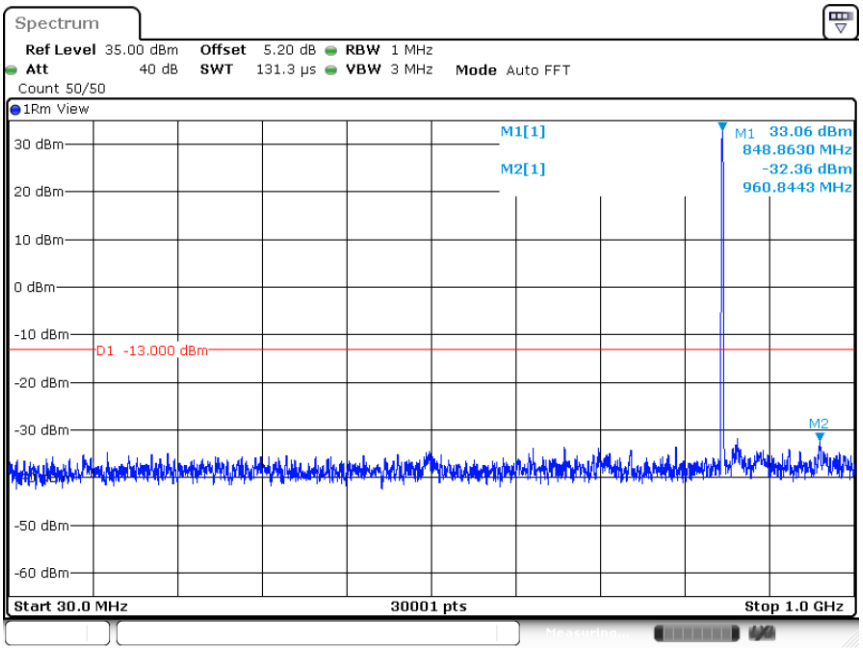
GSM850-251-30~1000MHz



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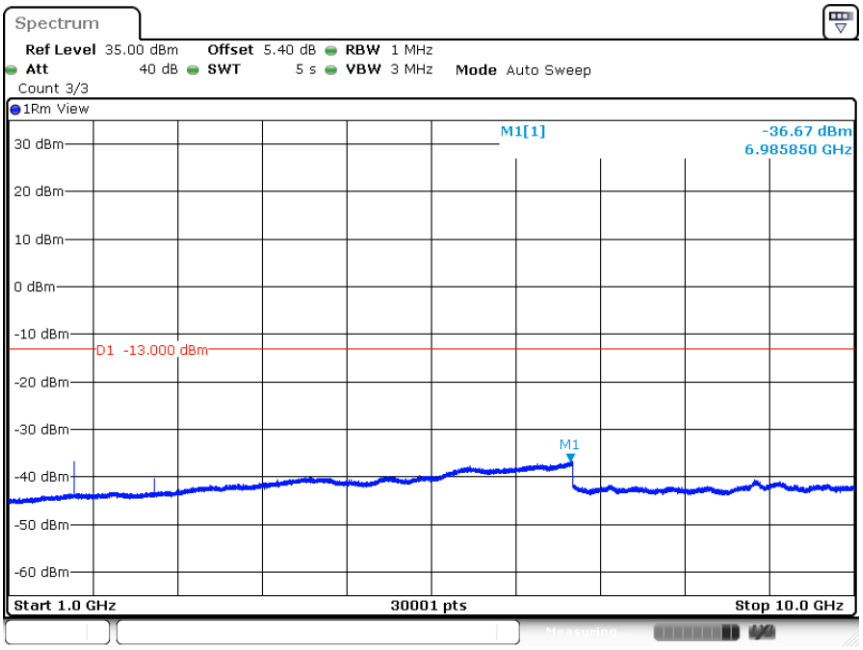
GSM850-251-1000~10000MHz



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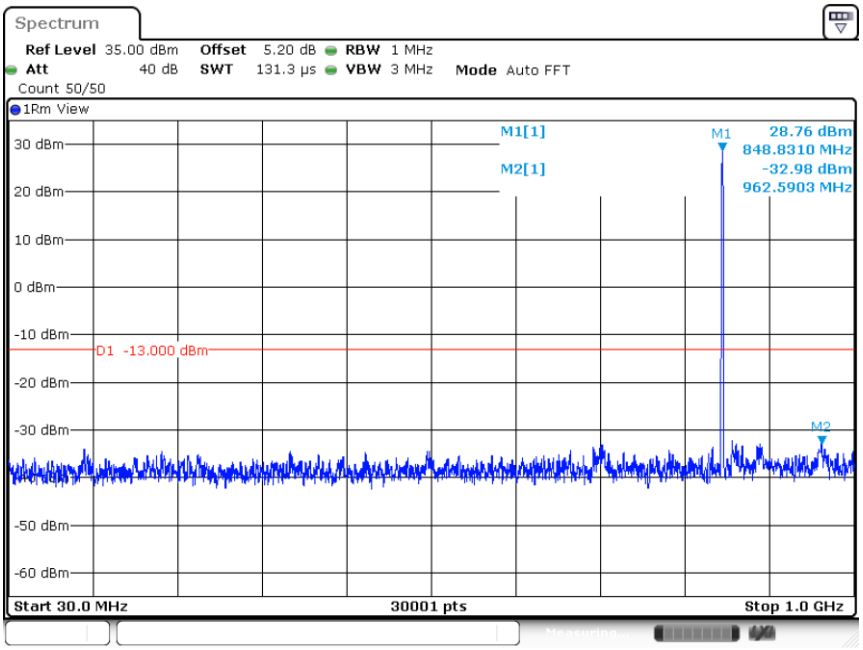
EGPRS850-128-30~1000MHz



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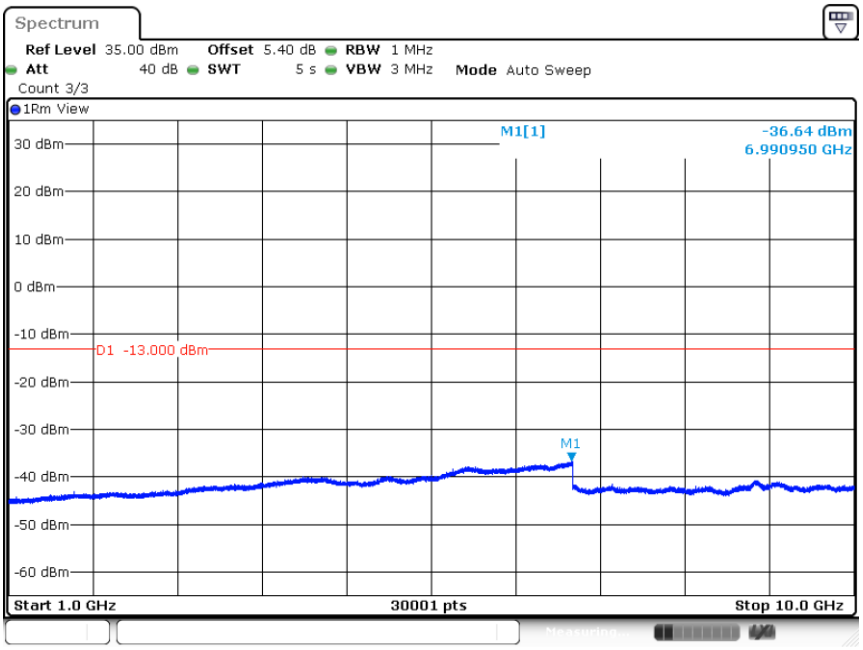
EGPRS850-128-1000~10000MHz



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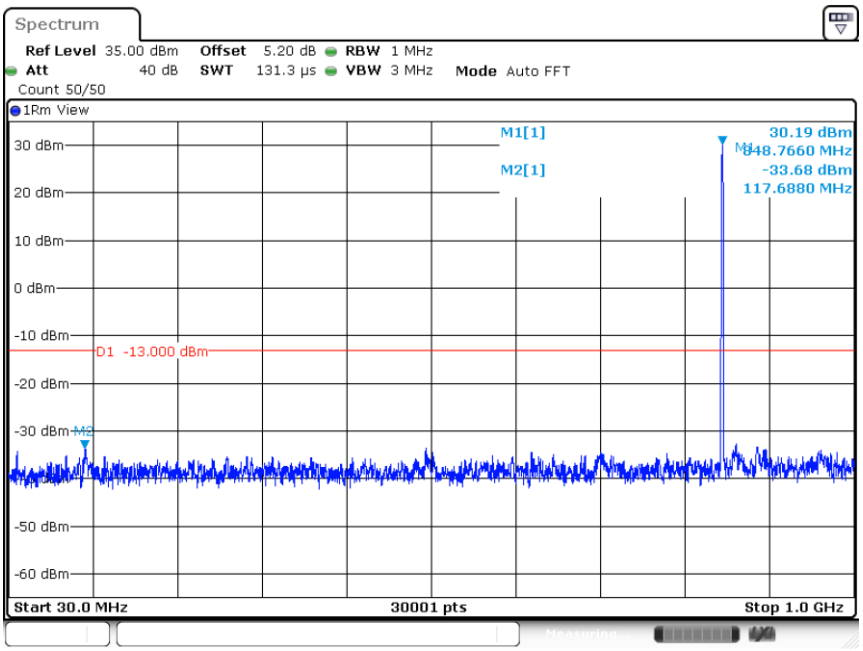

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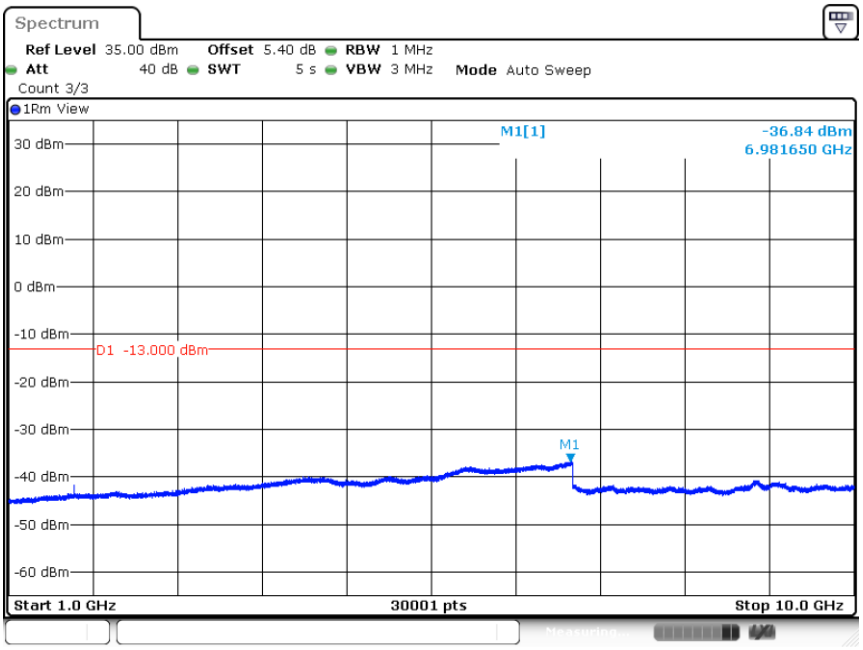

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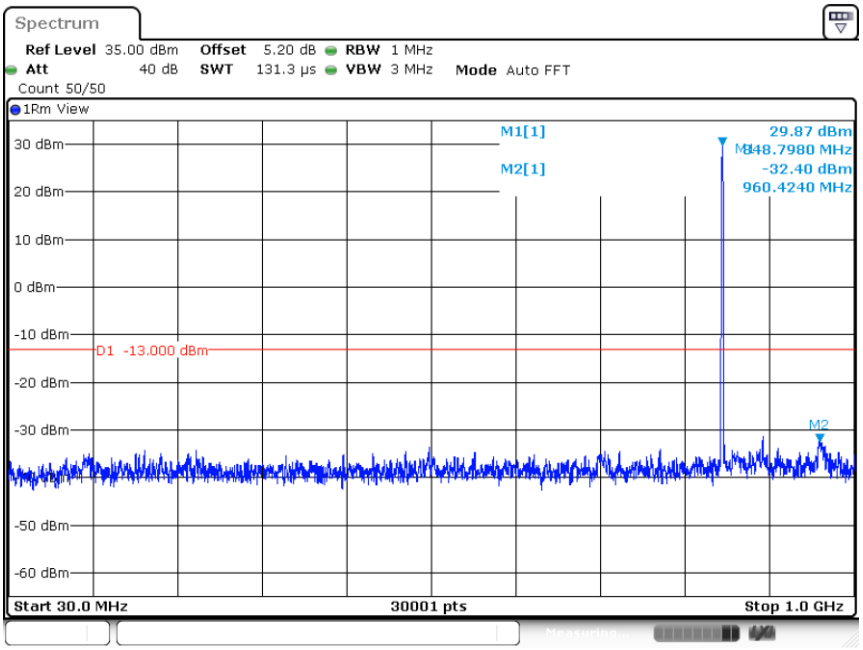

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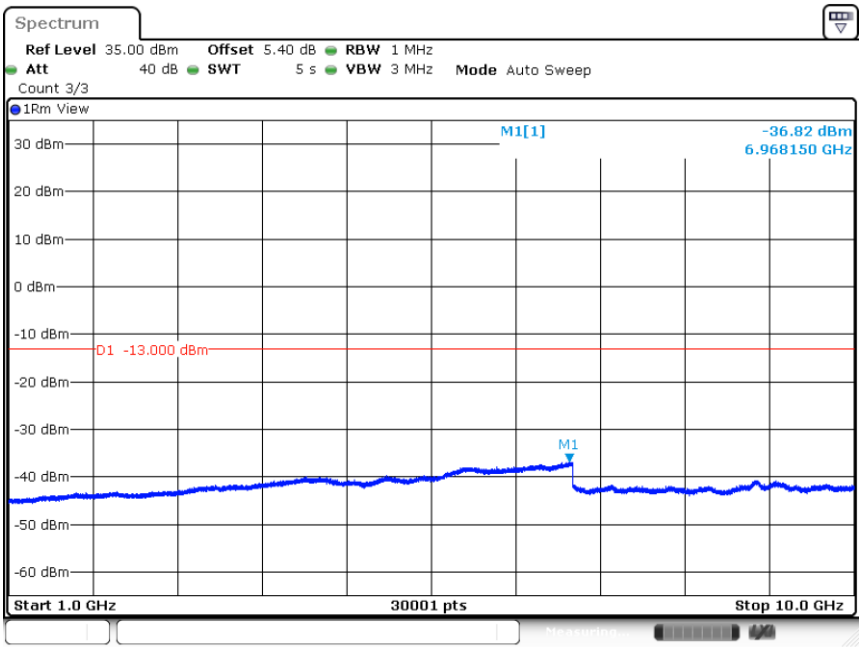

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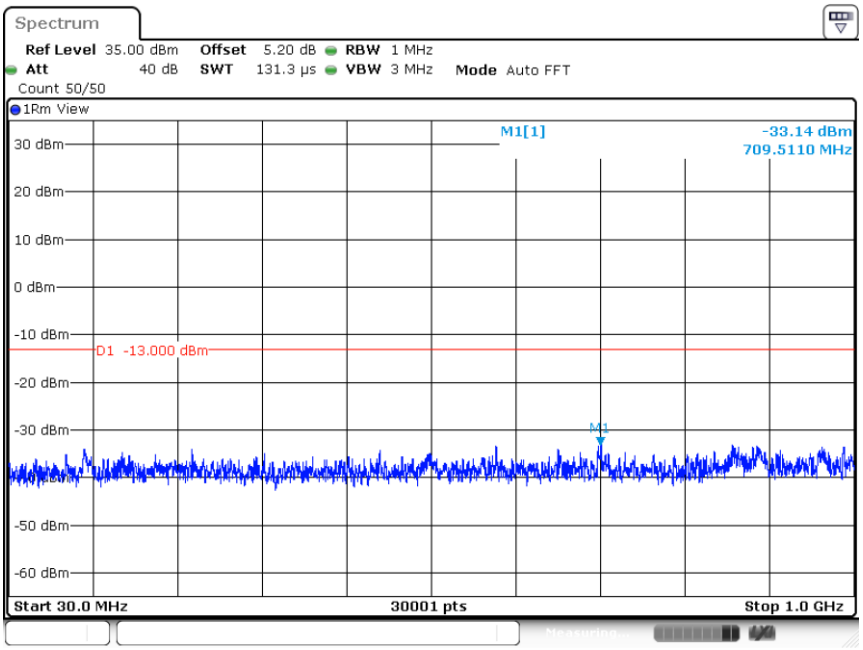
GSM1900-512-30~1000MHz



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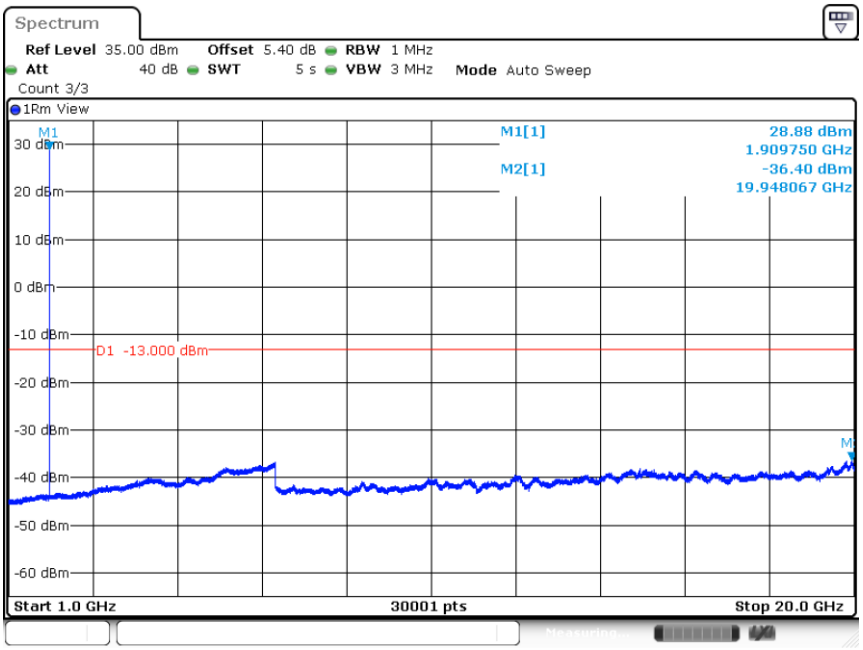
GSM1900-512-1000~20000MHz



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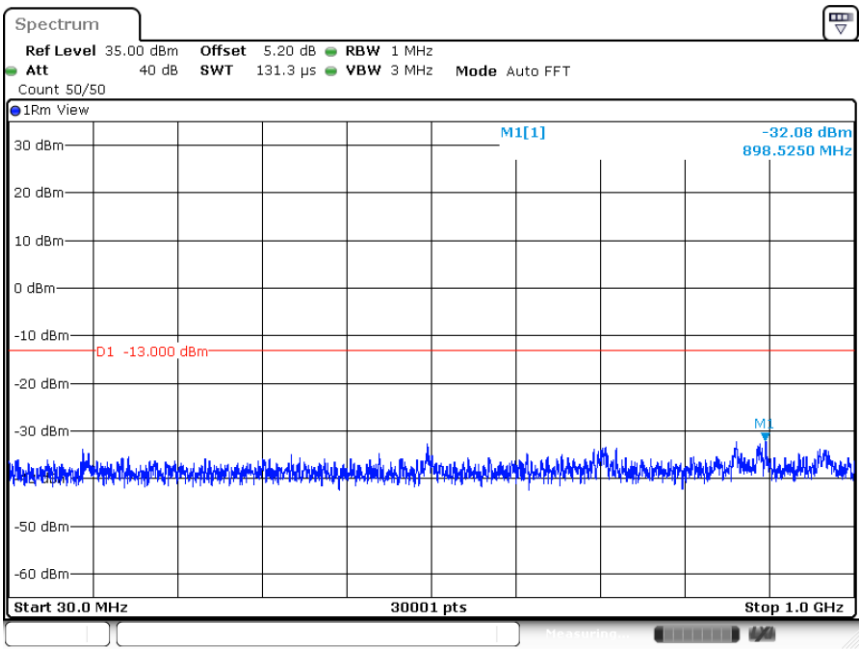
GSM1900-661-30~1000MHz



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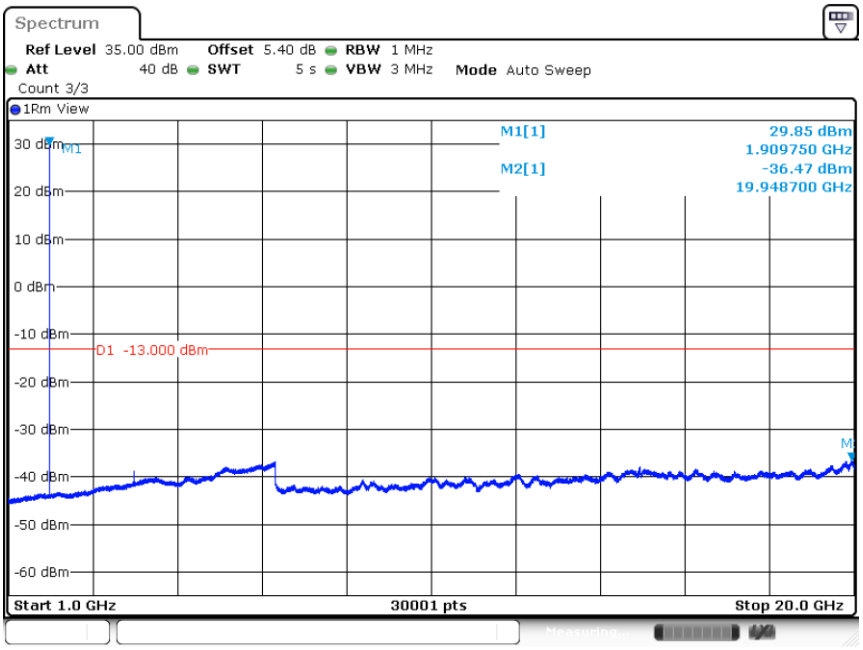
GSM1900-661-1000~20000MHz



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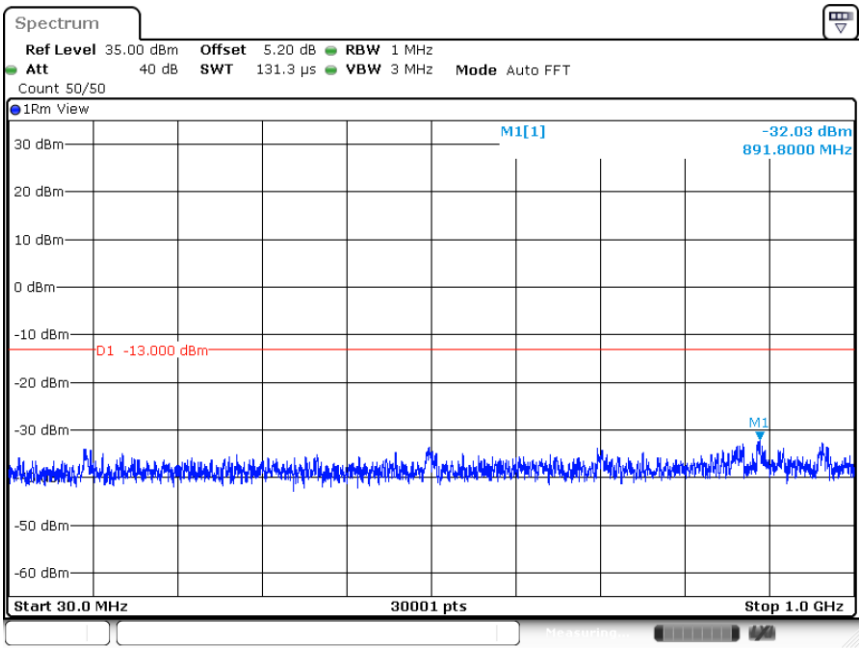
GSM1900-810-30~1000MHz



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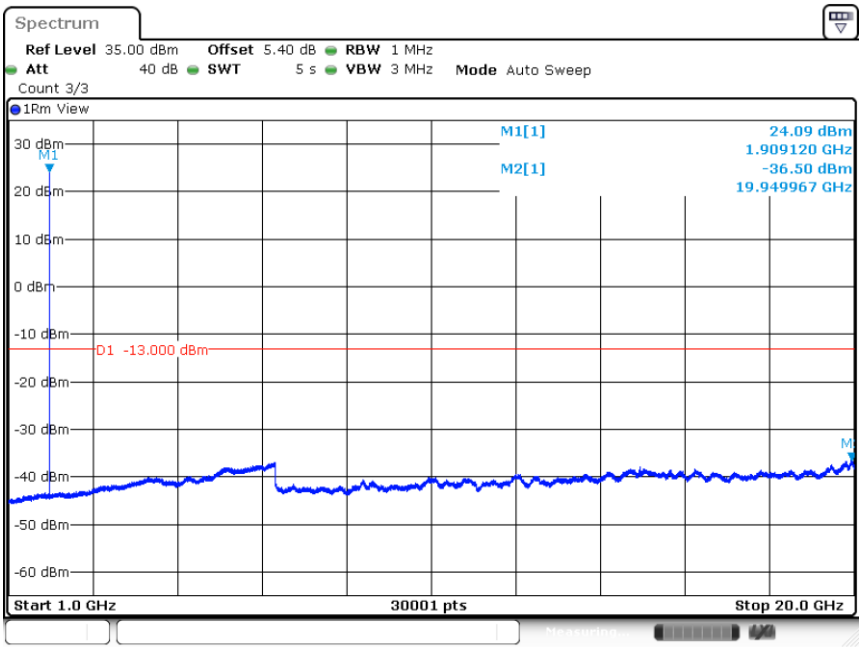
GSM1900-810-1000~20000MHz



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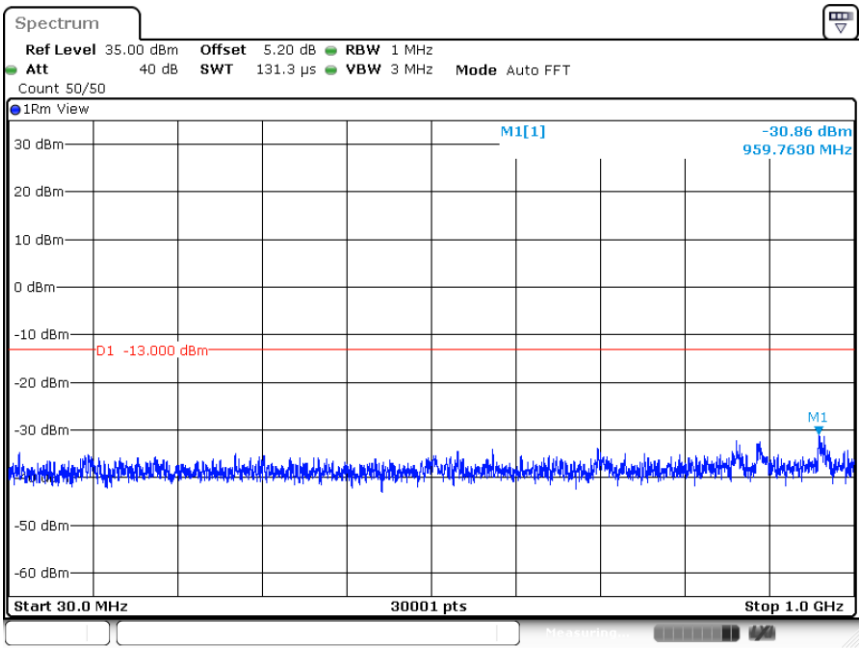
EGPRS1900-512-30~1000MHz



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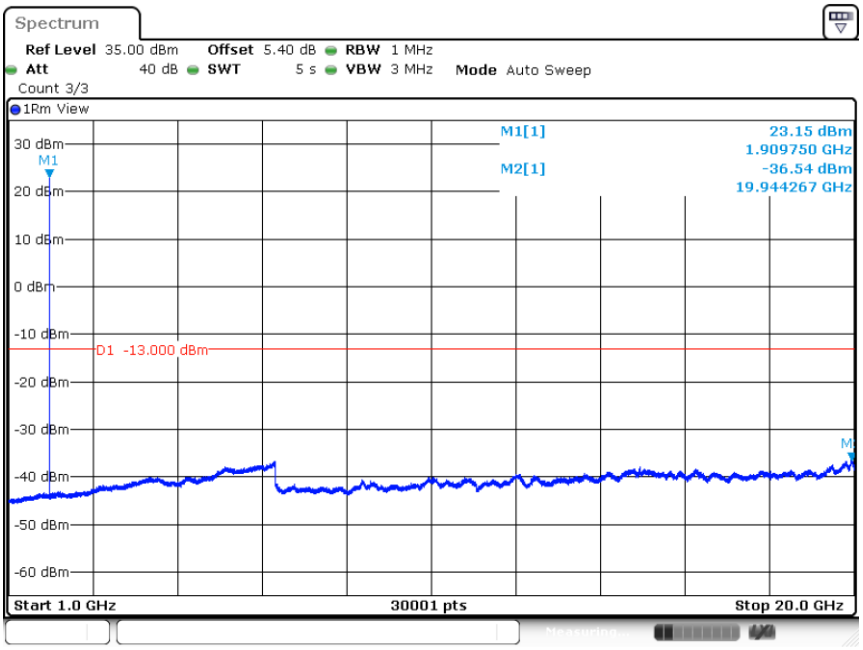
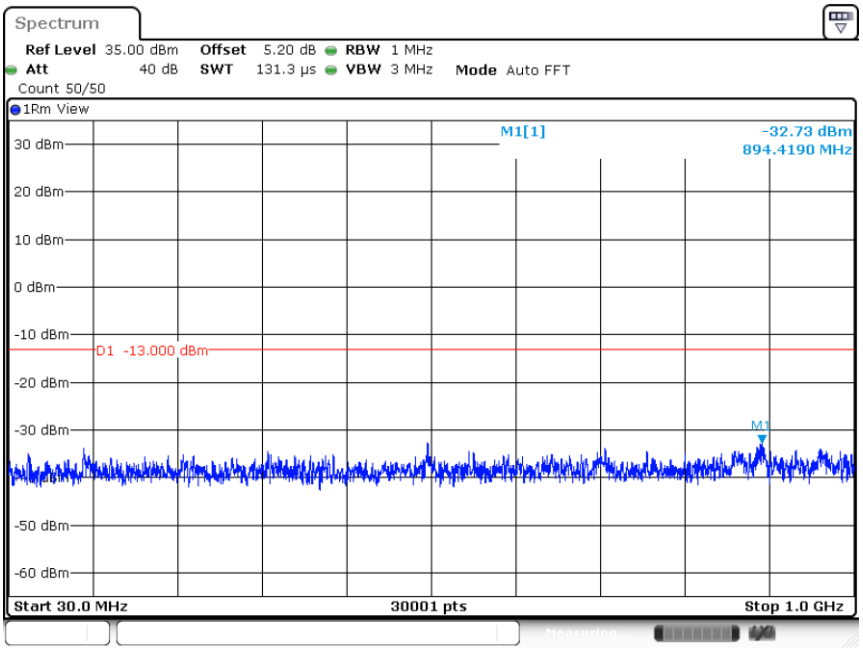


Date: 21.OCT.2020 15:43:03

EGPRS1900-661-30~1000MHz



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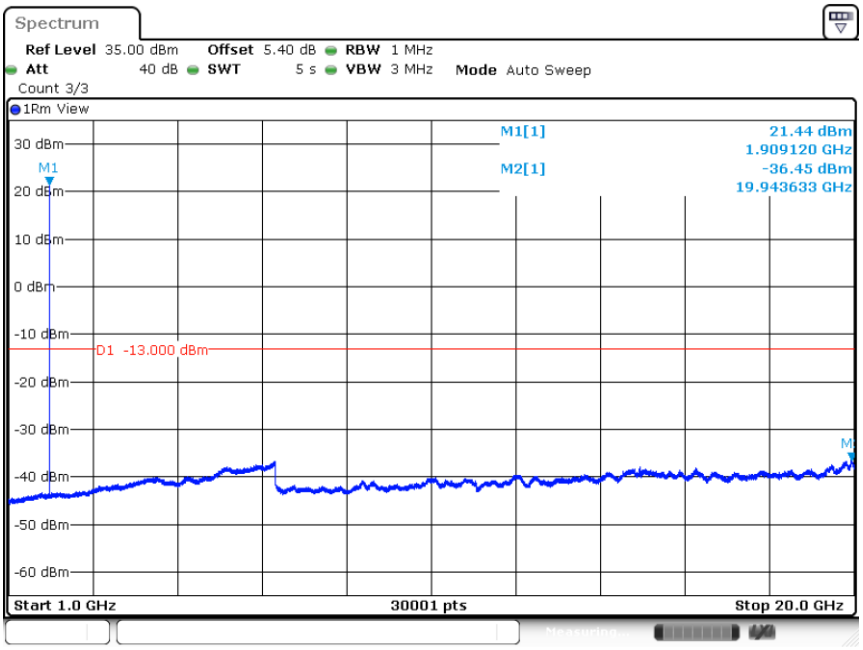

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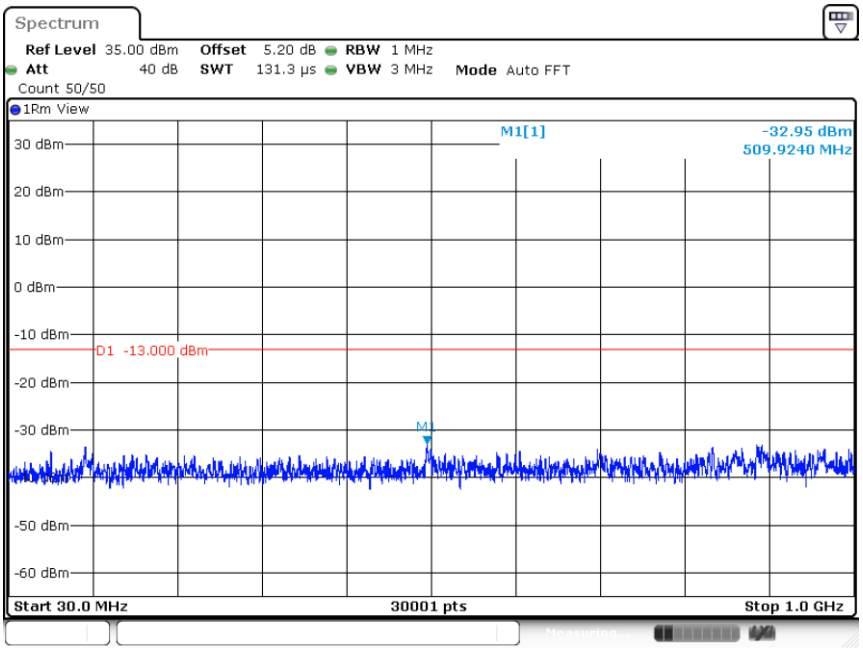
EGPRS1900-810-30~1000MHz



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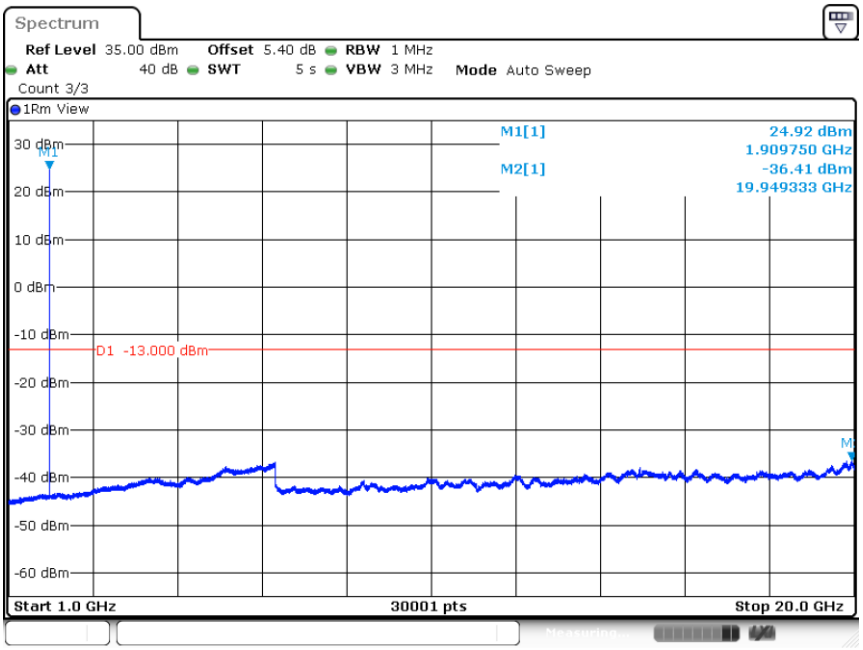

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7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 1900

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
53.5237	-62.84	-13.00	49.84	174	36	Vertical
108.2344	-63.92	-13.00	50.92	185	131	Vertical
615.6668	-63.00	-13.00	50.00	196	355	Vertical
3700.0233	-58.99	-13.00	45.99	231	259	Vertical
5550.5850	-53.25	-13.00	40.25	251	195	Vertical
17994.4998	-40.97	-13.00	27.97	154	355	Vertical
50.9530	-59.41	-13.00	46.41	254	36	Horizontal
234.1952	-67.92	-13.00	54.92	285	227	Horizontal
652.0921	-62.43	-13.00	49.43	196	4	Horizontal
3700.5234	-52.60	-13.00	39.60	236	163	Horizontal
5550.5850	-54.12	-13.00	41.12	159	163	Horizontal
16392.4464	-44.27	-13.00	31.27	184	131	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
53.0872	-63.15	-13.00	50.15	141	203	Vertical
108.8164	-64.06	-13.00	51.06	158	267	Vertical
600.0005	-62.90	-13.00	49.90	196	107	Vertical
3760.0253	-60.39	-13.00	47.39	231	170	Vertical
5640.0880	-52.14	-13.00	39.14	262	300	Vertical
17991.4997	-40.87	-13.00	27.87	246	300	Vertical
51.1956	-58.86	-13.00	45.86	258	227	Horizontal
237.5419	-66.69	-13.00	53.69	274	358	Horizontal
562.9446	-63.35	-13.00	50.35	185	131	Horizontal
3760.0253	-58.06	-13.00	45.06	196	195	Horizontal
5640.0880	-47.37	-13.00	34.37	231	35	Horizontal
16392.4464	-44.65	-13.00	31.65	262	195	Horizontal

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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
31.4066	-70.14	-13.00	57.14	185	197	Vertical
111.3871	-64.18	-13.00	51.18	196	197	Vertical
472.3421	-66.57	-13.00	53.57	231	101	Vertical
3821.0274	-57.08	-13.00	44.08	252	69	Vertical
5729.0910	-54.13	-13.00	41.13	248	5	Vertical
17999.0000	-40.53	-13.00	27.53	184	37	Vertical
45.6663	-63.92	-13.00	50.92	258	133	Horizontal
95.1388	-73.23	-13.00	60.23	174	228	Horizontal
244.3807	-67.92	-13.00	54.92	196	197	Horizontal
3819.5273	-57.47	-13.00	44.47	321	228	Horizontal
5729.5910	-51.92	-13.00	38.92	252	324	Horizontal
16398.9466	-43.43	-13.00	30.43	251	228	Horizontal

7.2. Test Band = GSM 850

7.2.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
53.2812	-60.82	-13.00	47.82	185	163	Vertical
114.8792	-63.42	-13.00	50.42	174	99	Vertical
614.5512	-61.25	-13.00	48.25	196	354	Vertical
1648.1296	-49.02	-13.00	36.02	212	151	Vertical
2472.2945	-38.45	-13.00	25.45	226	356	Vertical
3296.5766	-61.54	-13.00	48.54	254	195	Vertical
51.1956	-58.15	-13.00	45.15	185	195	Horizontal
247.3394	-65.95	-13.00	52.95	196	131	Horizontal
560.2770	-62.77	-13.00	49.77	231	131	Horizontal
1648.5297	-40.64	-13.00	27.64	252	154	Horizontal
2472.6945	-39.42	-13.00	26.42	261	154	Horizontal
9547.0849	-52.74	-13.00	39.74	284	290	Horizontal

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7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
31.0671	-66.29	-13.00	53.29	147	229	Vertical
108.8164	-62.59	-13.00	49.59	174	229	Vertical
437.4204	-64.67	-13.00	51.67	196	69	Vertical
1673.3347	-54.75	-13.00	41.75	231	336	Vertical
2509.9020	-42.19	-13.00	29.19	262	144	Vertical
3346.2782	-60.75	-13.00	47.75	261	165	Vertical
51.0016	-59.16	-13.00	46.16	174	195	Horizontal
99.3100	-72.75	-13.00	59.75	185	259	Horizontal
243.6047	-66.38	-13.00	53.38	196	131	Horizontal
1672.9346	-44.18	-13.00	31.18	322	167	Horizontal
2509.9020	-48.93	-13.00	35.93	185	106	Horizontal
3346.5116	-59.11	-13.00	46.11	184	195	Horizontal

7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
53.1357	-63.02	-13.00	50.02	158	194	Vertical
112.9391	-63.23	-13.00	50.23	285	358	Vertical
301.2741	-66.97	-13.00	53.97	231	225	Vertical
1697.3395	-56.22	-13.00	43.22	159	242	Vertical
2546.7093	-42.27	-13.00	29.27	196	145	Vertical
4243.7081	-60.58	-13.00	47.58	184	225	Vertical
51.1956	-58.61	-13.00	45.61	185	36	Horizontal
228.5689	-65.75	-13.00	52.75	196	268	Horizontal
1698.1396	-52.64	-13.00	39.64	231	185	Horizontal
2546.7093	-40.85	-13.00	27.85	251	188	Horizontal
3395.2798	-56.78	-13.00	43.78	184	170	Horizontal
4243.7081	-59.61	-13.00	46.61	174	235	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 (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	NT	20.24	0.024557	±2.5	PASS
GSM850	128	VN	NT	22.47	0.027263	±2.5	PASS
GSM850	128	VH	NT	23.08	0.028003	±2.5	PASS
GSM850	190	VL	NT	29.48	0.035238	±2.5	PASS
GSM850	190	VN	NT	27.44	0.032799	±2.5	PASS
GSM850	190	VH	NT	25.25	0.030182	±2.5	PASS
GSM850	251	VL	NT	22.76	0.026814	±2.5	PASS
GSM850	251	VN	NT	25.38	0.029901	±2.5	PASS
GSM850	251	VH	NT	20.73	0.024423	±2.5	PASS
EGPRS850	128	VL	NT	37.74	0.045790	±2.5	PASS
EGPRS850	128	VN	NT	37.16	0.045086	±2.5	PASS
EGPRS850	128	VH	NT	36.26	0.043994	±2.5	PASS
EGPRS850	190	VL	NT	36.77	0.043952	±2.5	PASS
EGPRS850	190	VN	NT	36.77	0.043952	±2.5	PASS
EGPRS850	190	VH	NT	41.04	0.049056	±2.5	PASS
EGPRS850	251	VL	NT	30.06	0.035415	±2.5	PASS
EGPRS850	251	VN	NT	33.77	0.039786	±2.5	PASS
EGPRS850	251	VH	NT	32.64	0.038454	±2.5	PASS
GSM1900	512	VL	NT	32.61	0.017625	±2.5	PASS
GSM1900	512	VN	NT	32.00	0.017295	±2.5	PASS
GSM1900	512	VH	NT	39.81	0.021517	±2.5	PASS
GSM1900	661	VL	NT	41.29	0.021963	±2.5	PASS
GSM1900	661	VN	NT	39.52	0.021021	±2.5	PASS
GSM1900	661	VH	NT	41.49	0.022069	±2.5	PASS
GSM1900	810	VL	NT	25.47	0.013336	±2.5	PASS
GSM1900	810	VN	NT	25.60	0.013405	±2.5	PASS
GSM1900	810	VH	NT	26.60	0.013928	±2.5	PASS
EGPRS1900	512	VL	NT	47.65	0.025754	±2.5	PASS
EGPRS1900	512	VN	NT	50.79	0.027451	±2.5	PASS
EGPRS1900	512	VH	NT	46.43	0.025095	±2.5	PASS
EGPRS1900	661	VL	NT	51.24	0.027255	±2.5	PASS

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EGPRS1900	661	VN	NT	59.92	0.031872	±2.5	PASS
EGPRS1900	661	VH	NT	50.14	0.026670	±2.5	PASS
EGPRS1900	810	VL	NT	31.67	0.016583	±2.5	PASS
EGPRS1900	810	VN	NT	45.78	0.023971	±2.5	PASS
EGPRS1900	810	VH	NT	38.26	0.020034	±2.5	PASS

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8.2. Frequency Error Vs Temperature

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	29.12	0.035331	±2.5	PASS
GSM850	128	NV	-20	24.25	0.029422	±2.5	PASS
GSM850	128	NV	-10	23.50	0.028512	±2.5	PASS
GSM850	128	NV	0	23.21	0.028161	±2.5	PASS
GSM850	128	NV	10	23.44	0.028440	±2.5	PASS
GSM850	128	NV	20	21.66	0.026280	±2.5	PASS
GSM850	128	NV	30	25.57	0.031024	±2.5	PASS
GSM850	128	NV	40	21.57	0.026171	±2.5	PASS
GSM850	128	NV	50	24.73	0.030005	±2.5	PASS
GSM850	190	NV	-30	25.05	0.029943	±2.5	PASS
GSM850	190	NV	-20	23.73	0.028365	±2.5	PASS
GSM850	190	NV	-10	27.77	0.033194	±2.5	PASS
GSM850	190	NV	0	24.86	0.029716	±2.5	PASS
GSM850	190	NV	10	27.06	0.032345	±2.5	PASS
GSM850	190	NV	20	29.38	0.035118	±2.5	PASS
GSM850	190	NV	30	26.89	0.032142	±2.5	PASS
GSM850	190	NV	40	26.57	0.031760	±2.5	PASS
GSM850	190	NV	50	26.67	0.031879	±2.5	PASS
GSM850	251	NV	-30	20.70	0.024387	±2.5	PASS
GSM850	251	NV	-20	17.60	0.020735	±2.5	PASS
GSM850	251	NV	-10	18.31	0.021572	±2.5	PASS
GSM850	251	NV	0	15.88	0.018709	±2.5	PASS
GSM850	251	NV	10	20.92	0.024647	±2.5	PASS
GSM850	251	NV	20	22.21	0.026166	±2.5	PASS
GSM850	251	NV	30	18.63	0.021949	±2.5	PASS
GSM850	251	NV	40	19.47	0.022938	±2.5	PASS
GSM850	251	NV	50	19.02	0.022408	±2.5	PASS
EGPRS850	128	NV	-30	33.16	0.040233	±2.5	PASS
EGPRS850	128	NV	-20	35.51	0.043084	±2.5	PASS
EGPRS850	128	NV	-10	36.77	0.044613	±2.5	PASS
EGPRS850	128	NV	0	37.32	0.045280	±2.5	PASS
EGPRS850	128	NV	10	37.32	0.045280	±2.5	PASS
EGPRS850	128	NV	20	37.45	0.045438	±2.5	PASS

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EGPRS850	128	NV	40	37.71	0.045753	±2.5	PASS
EGPRS850	128	NV	50	34.87	0.042308	±2.5	PASS
EGPRS850	190	NV	-30	40.71	0.048661	±2.5	PASS
EGPRS850	190	NV	-20	38.13	0.045577	±2.5	PASS
EGPRS850	190	NV	-10	41.62	0.049749	±2.5	PASS
EGPRS850	190	NV	0	41.33	0.049402	±2.5	PASS
EGPRS850	190	NV	10	42.49	0.050789	±2.5	PASS
EGPRS850	190	NV	20	41.42	0.049510	±2.5	PASS
EGPRS850	190	NV	30	40.81	0.048781	±2.5	PASS
EGPRS850	190	NV	40	40.78	0.048745	±2.5	PASS
EGPRS850	190	NV	50	38.55	0.046079	±2.5	PASS
EGPRS850	251	NV	-30	32.51	0.038301	±2.5	PASS
EGPRS850	251	NV	-20	33.96	0.040009	±2.5	PASS
EGPRS850	251	NV	-10	31.64	0.037276	±2.5	PASS
EGPRS850	251	NV	0	30.38	0.035792	±2.5	PASS
EGPRS850	251	NV	10	30.25	0.035639	±2.5	PASS
EGPRS850	251	NV	20	32.51	0.038301	±2.5	PASS
EGPRS850	251	NV	30	34.13	0.040210	±2.5	PASS
EGPRS850	251	NV	40	31.48	0.037088	±2.5	PASS
EGPRS850	251	NV	50	33.71	0.039715	±2.5	PASS
GSM1900	512	NV	-30	35.64	0.019263	±2.5	PASS
GSM1900	512	NV	-20	31.06	0.016787	±2.5	PASS
GSM1900	512	NV	-10	31.25	0.016890	±2.5	PASS
GSM1900	512	NV	0	29.90	0.016160	±2.5	PASS
GSM1900	512	NV	10	37.35	0.020187	±2.5	PASS
GSM1900	512	NV	20	35.45	0.019160	±2.5	PASS
GSM1900	512	NV	30	38.45	0.020782	±2.5	PASS
GSM1900	512	NV	40	38.65	0.020890	±2.5	PASS
GSM1900	512	NV	50	38.45	0.020782	±2.5	PASS
GSM1900	661	NV	-30	43.36	0.023064	±2.5	PASS
GSM1900	661	NV	-20	36.81	0.019580	±2.5	PASS
GSM1900	661	NV	-10	35.81	0.019048	±2.5	PASS
GSM1900	661	NV	0	39.65	0.021090	±2.5	PASS
GSM1900	661	NV	10	33.90	0.018032	±2.5	PASS
GSM1900	661	NV	20	38.55	0.020505	±2.5	PASS
GSM1900	661	NV	30	31.77	0.016899	±2.5	PASS

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GSM1900	661	NV	40	32.38	0.017223	±2.5	PASS
GSM1900	661	NV	50	35.64	0.018957	±2.5	PASS
GSM1900	810	NV	-30	16.72	0.008755	±2.5	PASS
GSM1900	810	NV	-20	28.77	0.015064	±2.5	PASS
GSM1900	810	NV	-10	24.57	0.012865	±2.5	PASS
GSM1900	810	NV	0	24.76	0.012965	±2.5	PASS
GSM1900	810	NV	10	21.95	0.011493	±2.5	PASS
GSM1900	810	NV	20	27.93	0.014625	±2.5	PASS
GSM1900	810	NV	30	23.47	0.012289	±2.5	PASS
GSM1900	810	NV	40	18.73	0.009807	±2.5	PASS
GSM1900	810	NV	50	23.79	0.012457	±2.5	PASS
EGPRS1900	512	NV	-30	48.27	0.026089	±2.5	PASS
EGPRS1900	512	NV	-20	51.33	0.027743	±2.5	PASS
EGPRS1900	512	NV	-10	51.14	0.027640	±2.5	PASS
EGPRS1900	512	NV	0	47.33	0.025581	±2.5	PASS
EGPRS1900	512	NV	10	46.49	0.025127	±2.5	PASS
EGPRS1900	512	NV	20	51.92	0.028062	±2.5	PASS
EGPRS1900	512	NV	30	51.50	0.027835	±2.5	PASS
EGPRS1900	512	NV	40	46.65	0.025213	±2.5	PASS
EGPRS1900	512	NV	50	48.69	0.026316	±2.5	PASS
EGPRS1900	661	NV	-30	46.78	0.024883	±2.5	PASS
EGPRS1900	661	NV	-20	50.69	0.026963	±2.5	PASS
EGPRS1900	661	NV	-10	46.39	0.024676	±2.5	PASS
EGPRS1900	661	NV	0	49.40	0.026277	±2.5	PASS
EGPRS1900	661	NV	10	48.49	0.025793	±2.5	PASS
EGPRS1900	661	NV	20	52.46	0.027904	±2.5	PASS
EGPRS1900	661	NV	30	46.98	0.024989	±2.5	PASS
EGPRS1900	661	NV	40	45.30	0.024096	±2.5	PASS
EGPRS1900	661	NV	50	51.40	0.027340	±2.5	PASS
EGPRS1900	810	NV	-30	37.19	0.019473	±2.5	PASS
EGPRS1900	810	NV	-20	32.90	0.017227	±2.5	PASS
EGPRS1900	810	NV	-10	37.32	0.019541	±2.5	PASS
EGPRS1900	810	NV	0	32.32	0.016923	±2.5	PASS
EGPRS1900	810	NV	10	31.77	0.016635	±2.5	PASS
EGPRS1900	810	NV	20	29.96	0.015688	±2.5	PASS
EGPRS1900	810	NV	30	38.94	0.020390	±2.5	PASS
EGPRS1900	810	NV	40	38.29	0.020049	±2.5	PASS

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EGPRS1900	810	NV	50	37.35	0.019557	±2.5	PASS

The End

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