



Appendix B

GSM850 & GSM1900



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1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

BAND	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850/TM1	128	32.11	29.96	38.45	PASS
GSM850/TM1	190	32.00	29.85	38.45	PASS
GSM850/TM1	251	31.78	29.63	38.45	PASS
GSM850/TM2	128	26.44	24.29	38.45	PASS
GSM850/TM2	190	26.47	24.32	38.45	PASS
GSM850/TM2	251	26.56	24.41	38.45	PASS

BAND	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900/TM1	512	28.72	28.22	33.00	PASS
GSM1900/TM1	661	28.83	28.33	33.00	PASS
GSM1900/TM1	810	28.74	28.24	33.00	PASS
GSM1900/TM2	512	25.34	24.84	33.00	PASS
GSM1900/TM2	661	25.37	24.87	33.00	PASS
GSM1900/TM2	810	25.39	24.89	33.00	PASS

Note:

a: For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b: SGP=Signal Generator Level

2. Peak-to-Average Ratio

2.1. Test Result

BAND	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
GSM850/TM1	128	7.71	13	PASS
GSM850/TM1	190	7.74	13	PASS
GSM850/TM1	251	7.74	13	PASS
GSM850/TM2	128	10.58	13	PASS
GSM850/TM2	190	10.38	13	PASS
GSM850/TM2	251	10.75	13	PASS
GSM1900/TM1	512	7.71	13	PASS
GSM1900/TM1	661	7.71	13	PASS
GSM1900/TM1	810	7.65	13	PASS
GSM1900/TM2	512	10.61	13	PASS
GSM1900/TM2	661	10.43	13	PASS
GSM1900/TM2	810	10.84	13	PASS

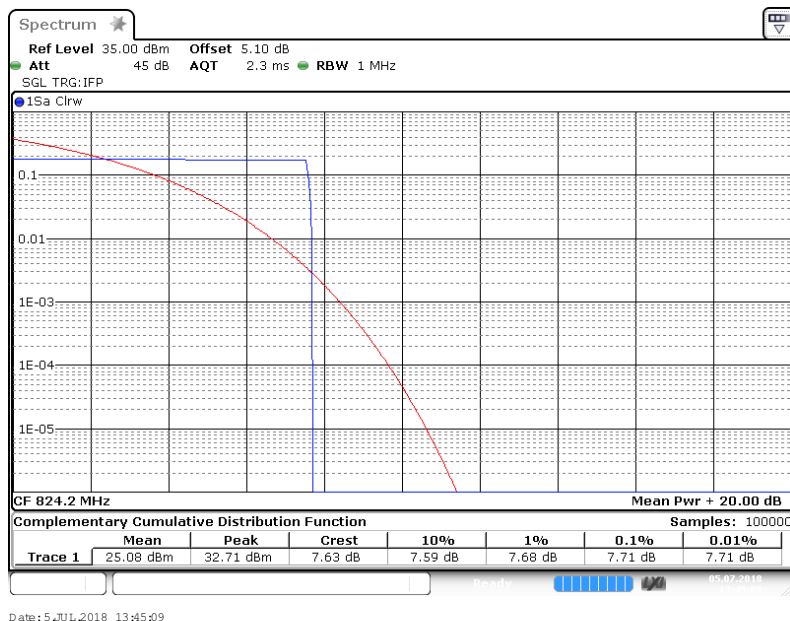
Part II - Test Plots

2.2. For GSM

2.2.1. Test Band = GSM 850

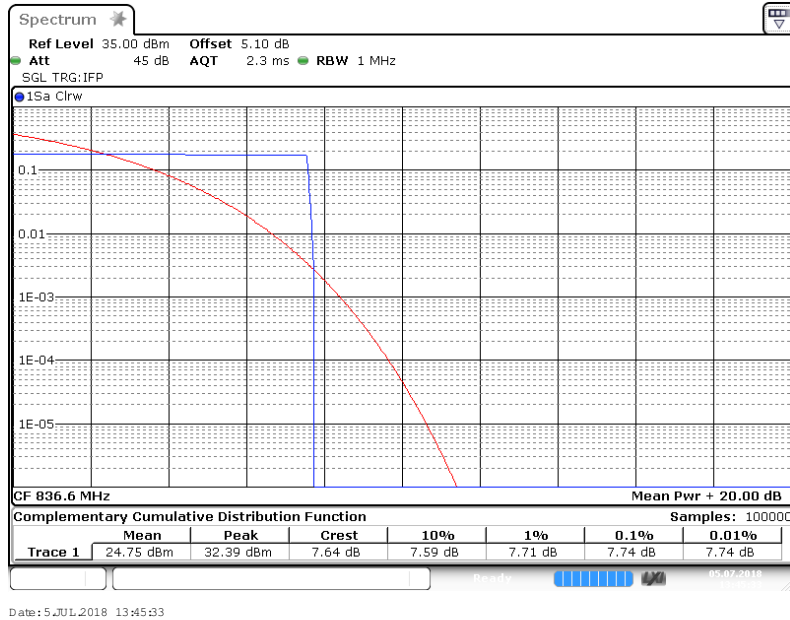
2.2.1.1. Test Mode = GSM/TM1

2.2.1.1.1. Test Channel = LCH

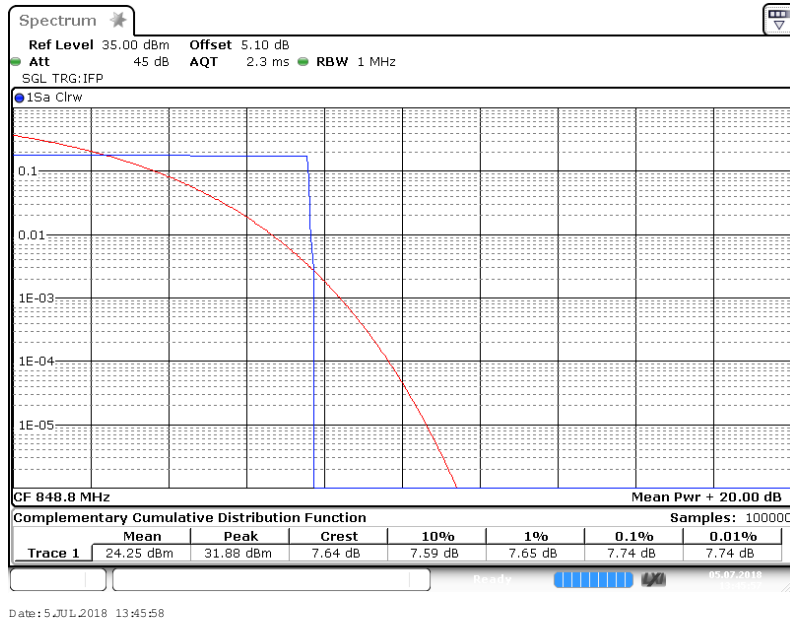




2.2.1.1.2. Test Channel = MCH



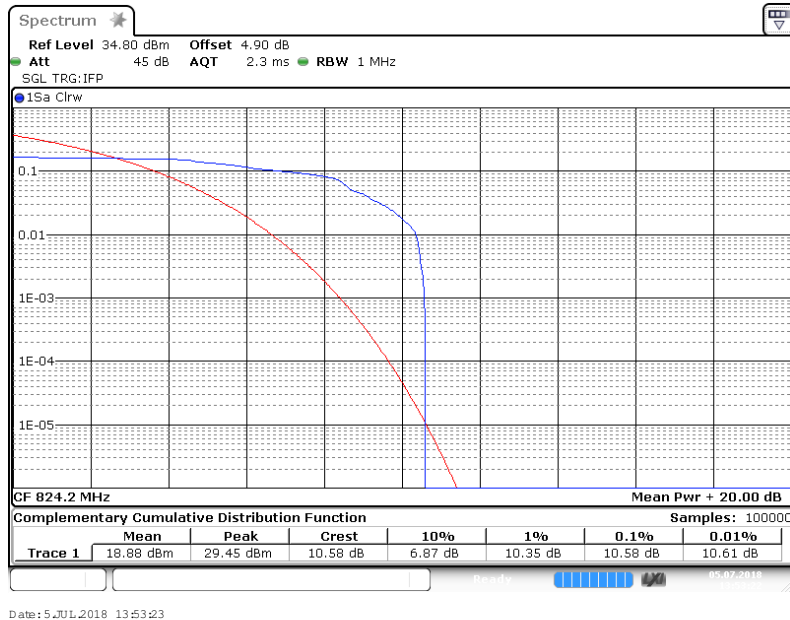
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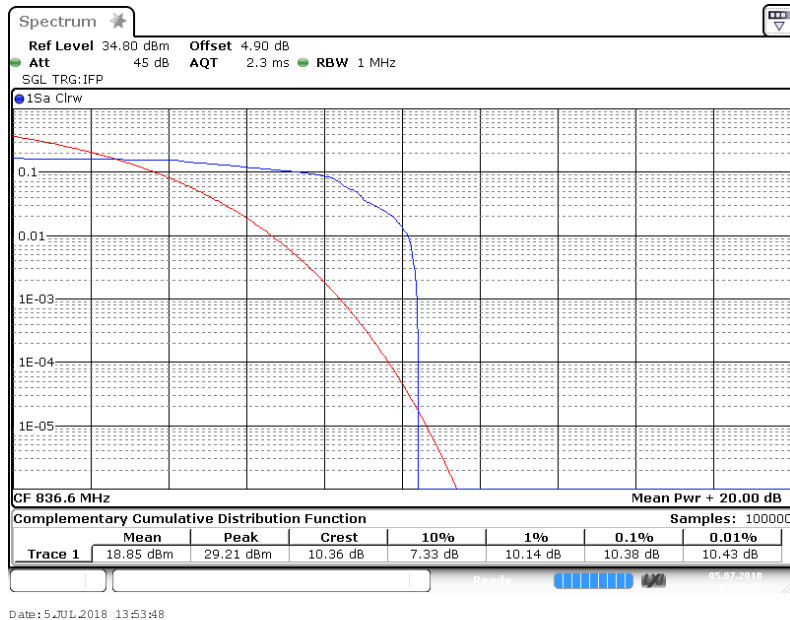


2.2.1.2. Test Mode = GSM/TM2

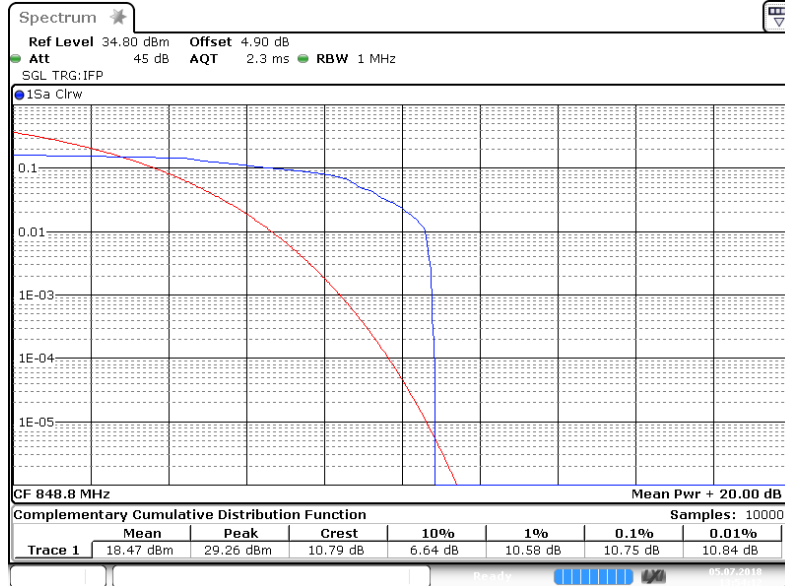
2.2.1.2.1. Test Channel = LCH



2.2.1.2.2. Test Channel = MCH



2.2.1.2.3. Test Channel = HCH

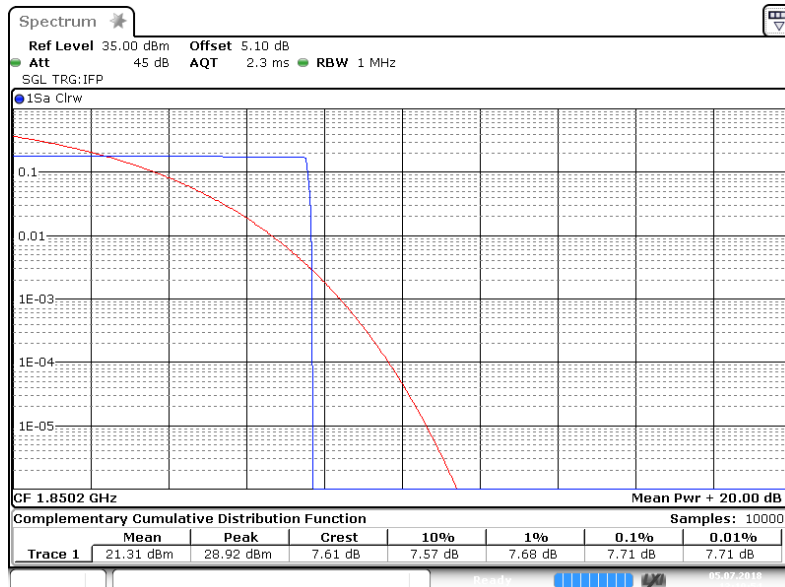


Date: 5 JUL 2018 13:54:13

2.2.2. Test Band = GSM 1900

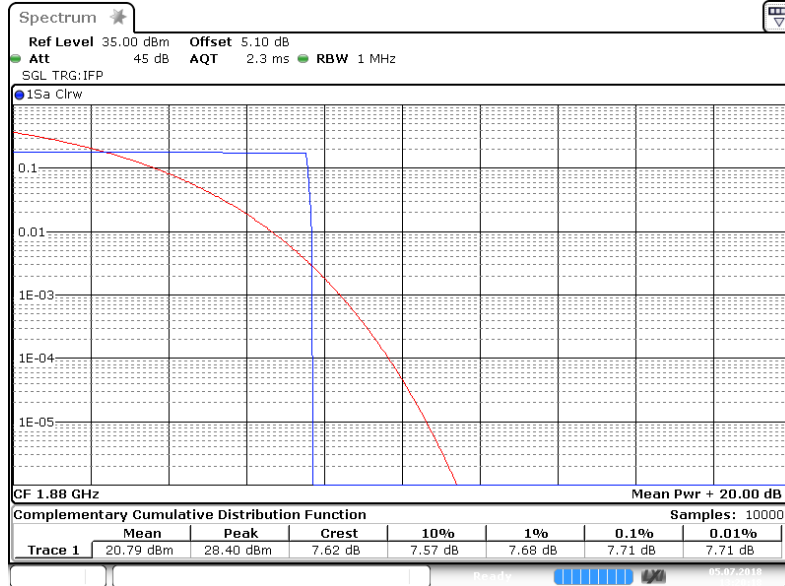
2.2.2.1. Test Mode = GSM/TM1

2.2.2.1.1. Test Channel = LCH



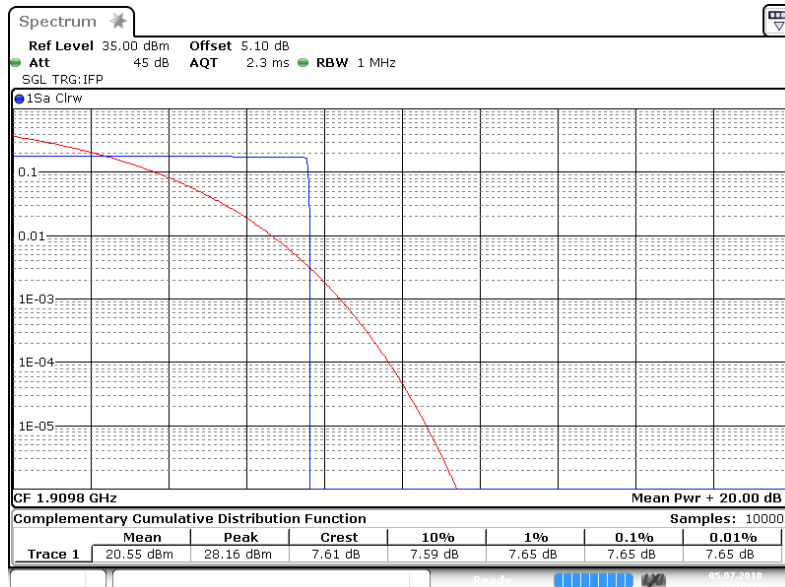
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2.2.2.1.2. Test Channel = MCH



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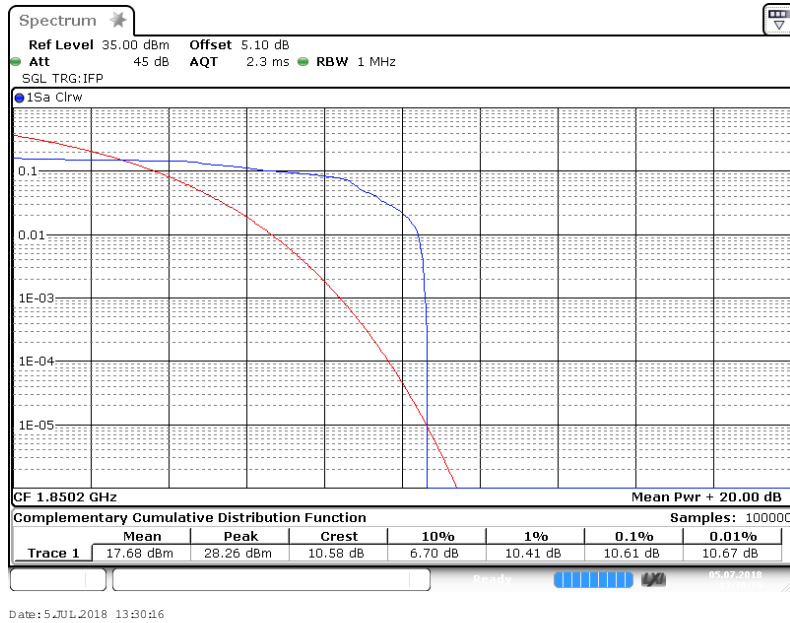
2.2.2.1.3. Test Channel = HCH



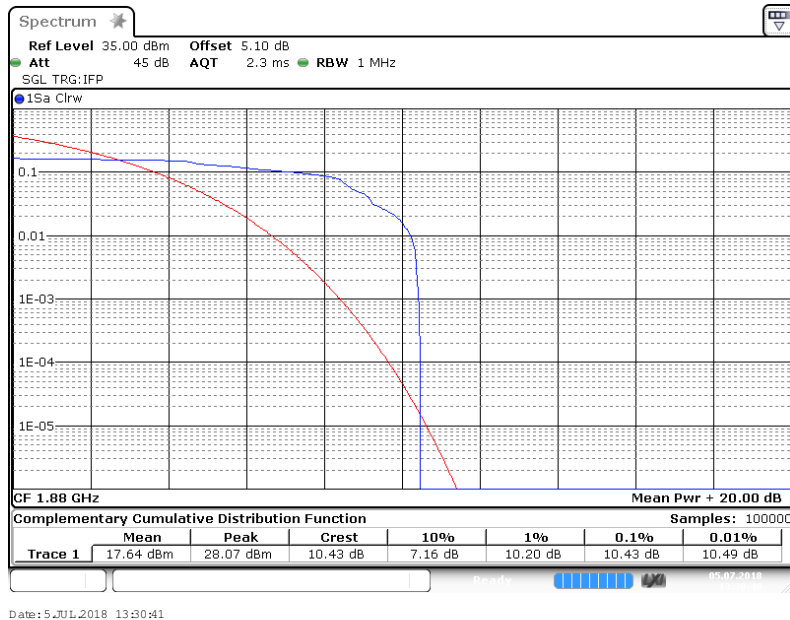
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2.2.2.2. Test Mode = GSM/TM2

2.2.2.2.1. Test Channel = LCH

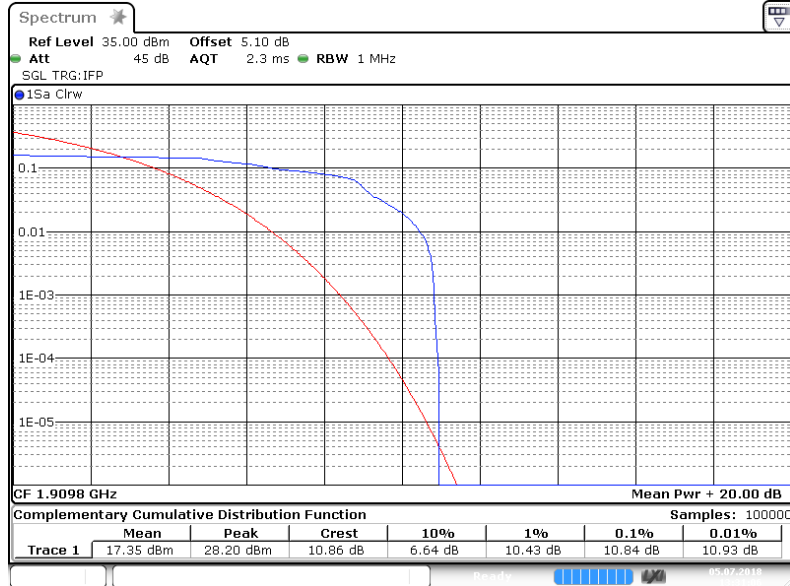


2.2.2.2.2. Test Channel = MCH





2.2.2.2.3. Test Channel = HCH



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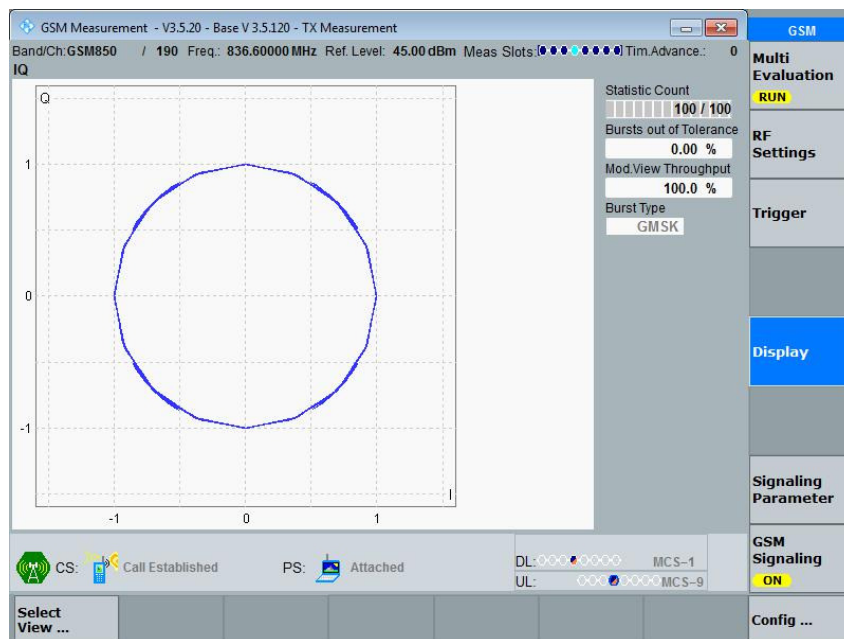
3. Modulation Characteristics

3.1. For GSM

3.1.1. Test BAND = GSM 850

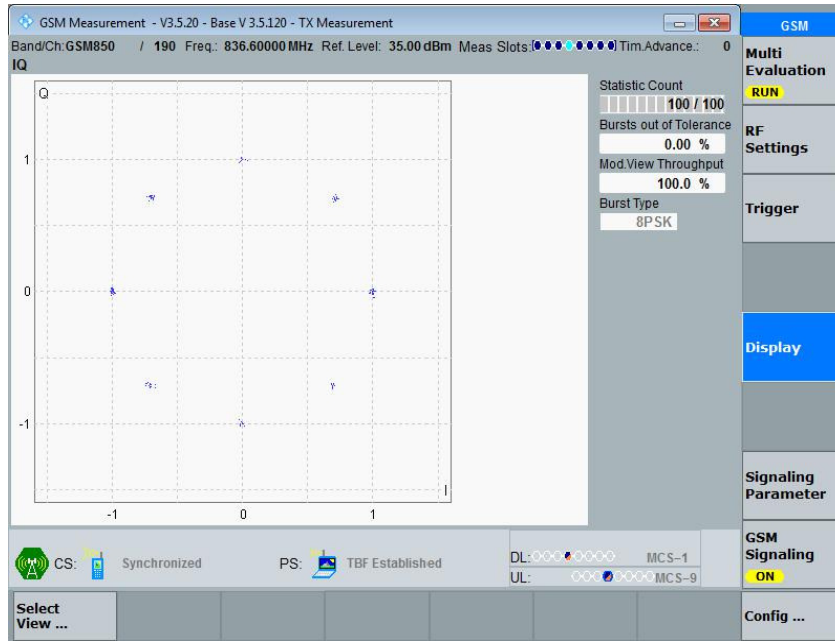
3.1.1.1. Test Mode = GSM/TM1

3.1.1.1.1. Test Channel = MCH



3.1.1.2. Test Mode = GSM/TM2

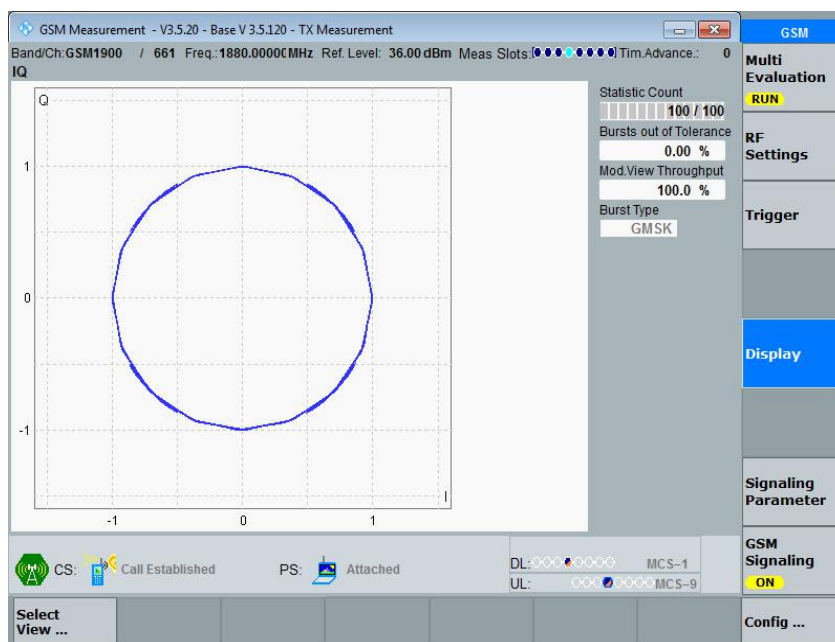
3.1.1.2.1. Test Channel = MCH



3.1.2. Test BAND = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

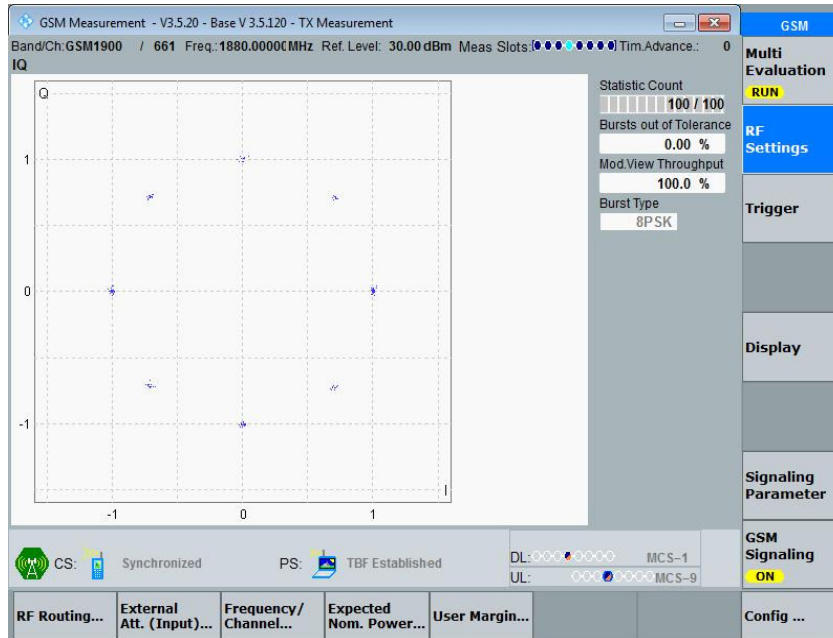
3.1.2.1.1. Test Channel = MCH





3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



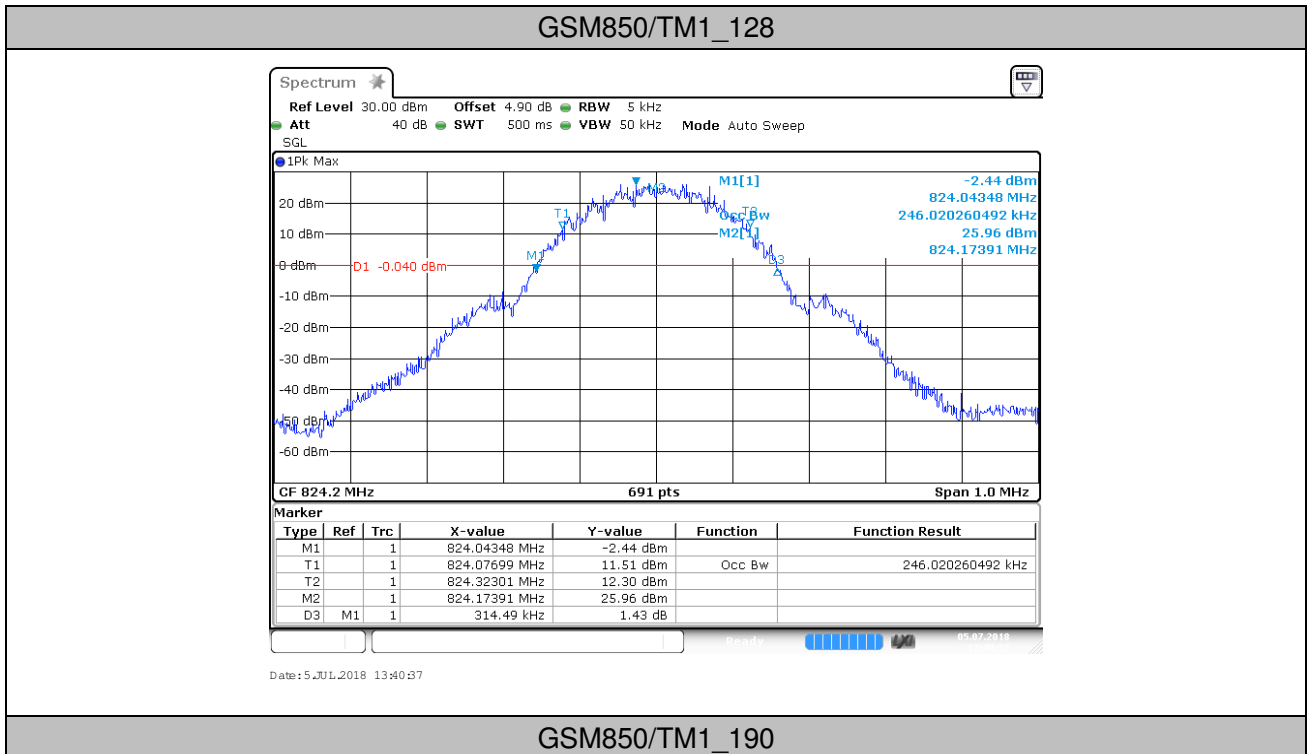


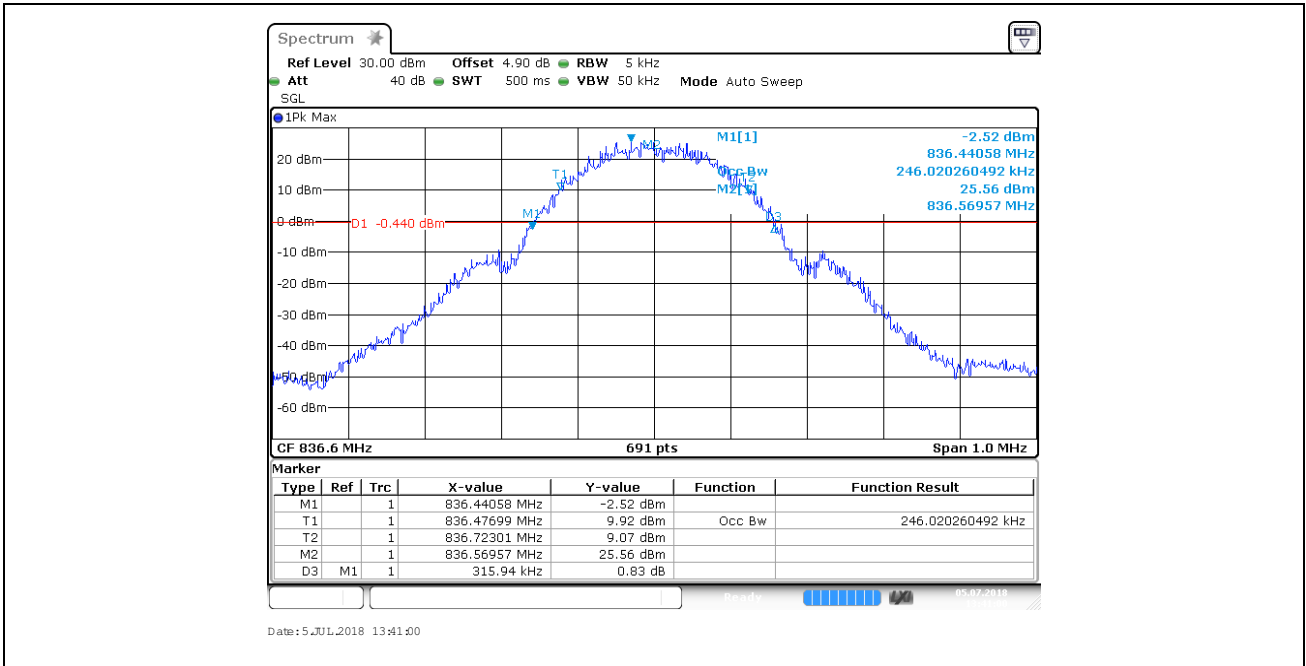
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

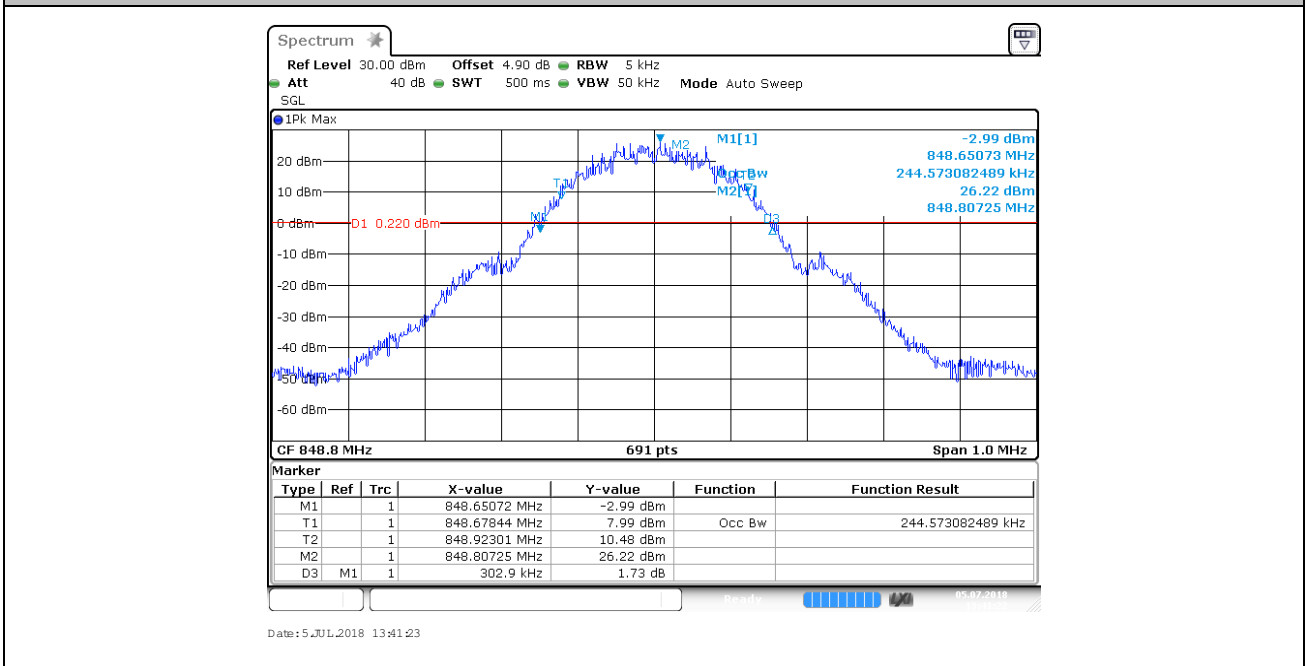
BAND	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
GSM850/TM1	128	246.02	314.49	---	PASS
GSM850/TM1	190	246.02	315.94	---	PASS
GSM850/TM1	251	244.57	302.90	---	PASS
GSM850/TM2	128	250.36	298.55	---	PASS
GSM850/TM2	190	251.81	298.55	---	PASS
GSM850/TM2	251	243.13	295.65	---	PASS
GSM1900/TM1	512	244.57	295.65	---	PASS
GSM1900/TM1	661	246.02	291.30	---	PASS
GSM1900/TM1	810	244.57	302.90	---	PASS
GSM1900/TM2	512	250.36	302.90	---	PASS
GSM1900/TM2	661	247.47	300.00	---	PASS
GSM1900/TM2	810	246.02	304.35	---	PASS

4.2. Test Plots

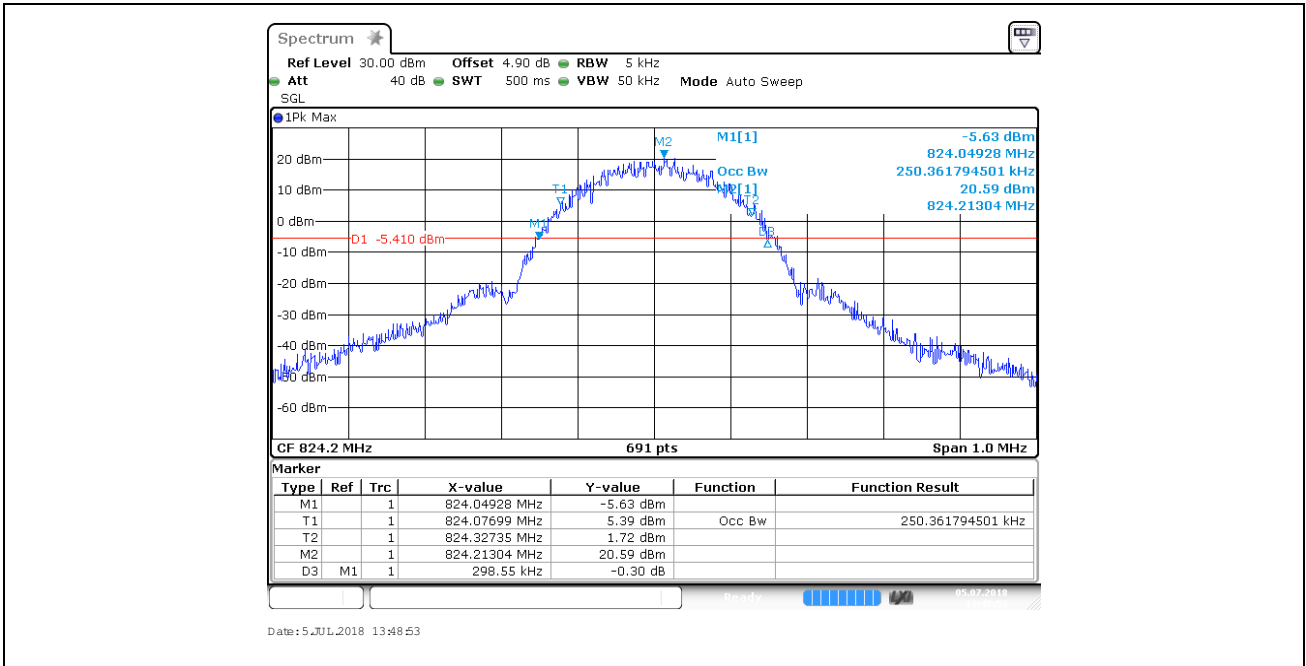




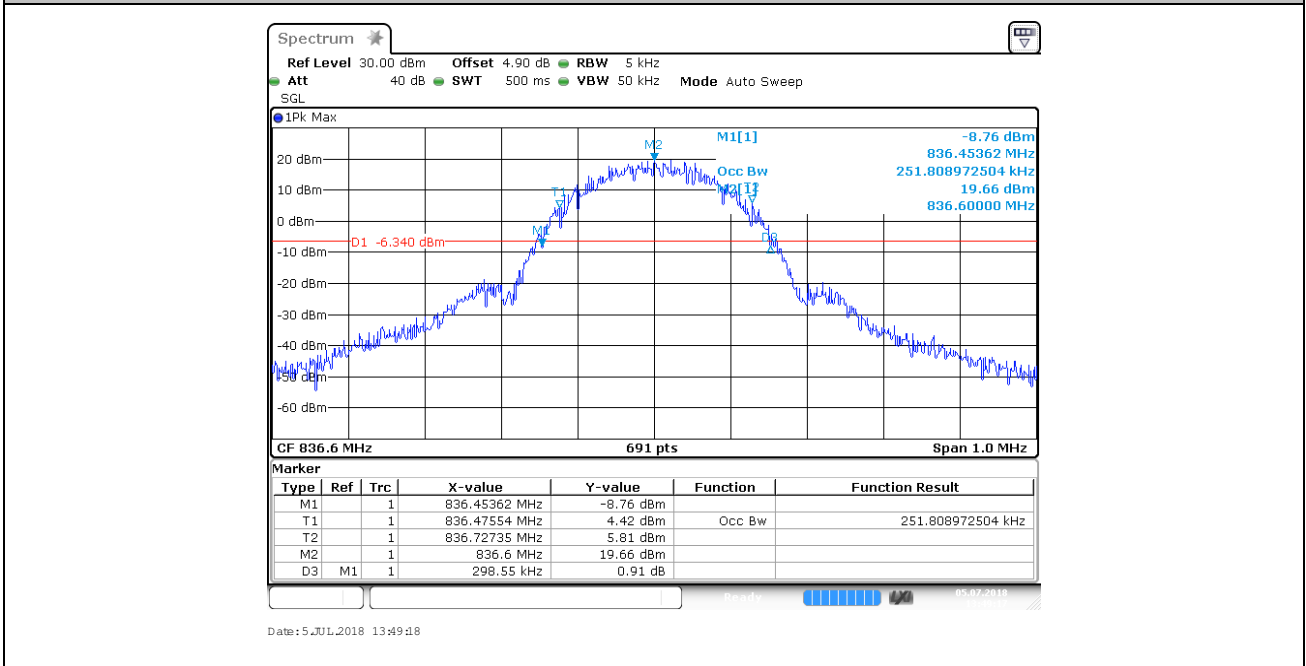
GSM850/TM1_251



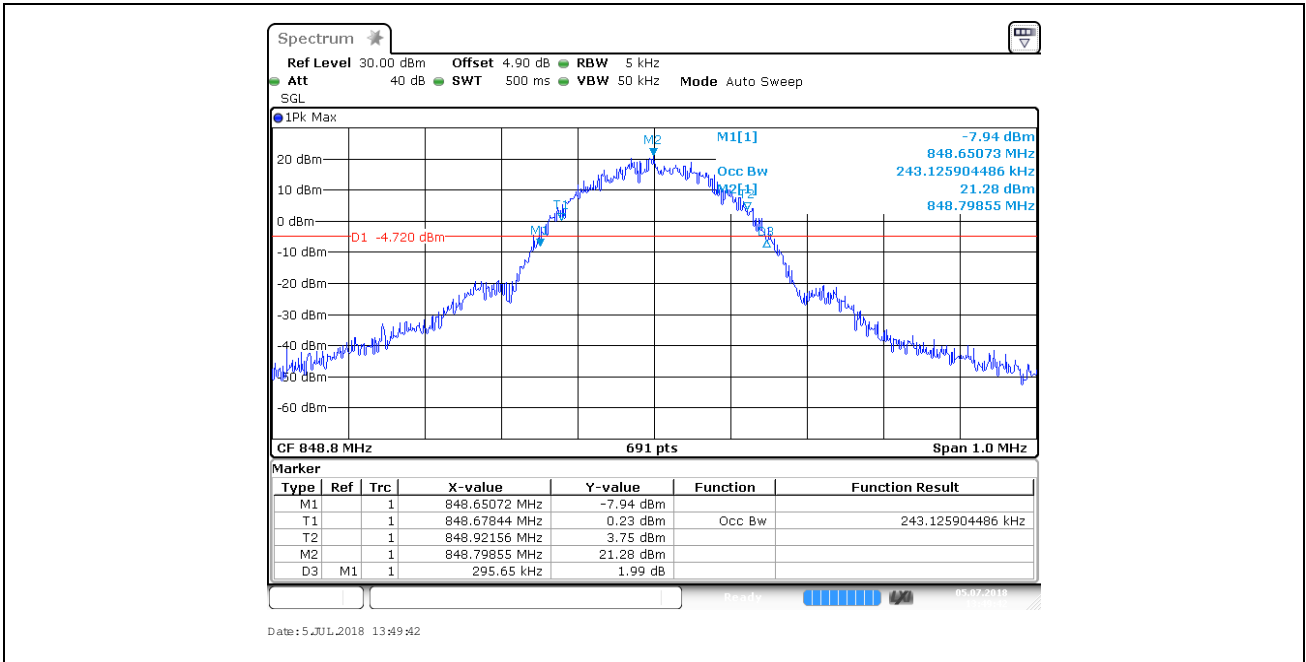
GSM850/TM2_128



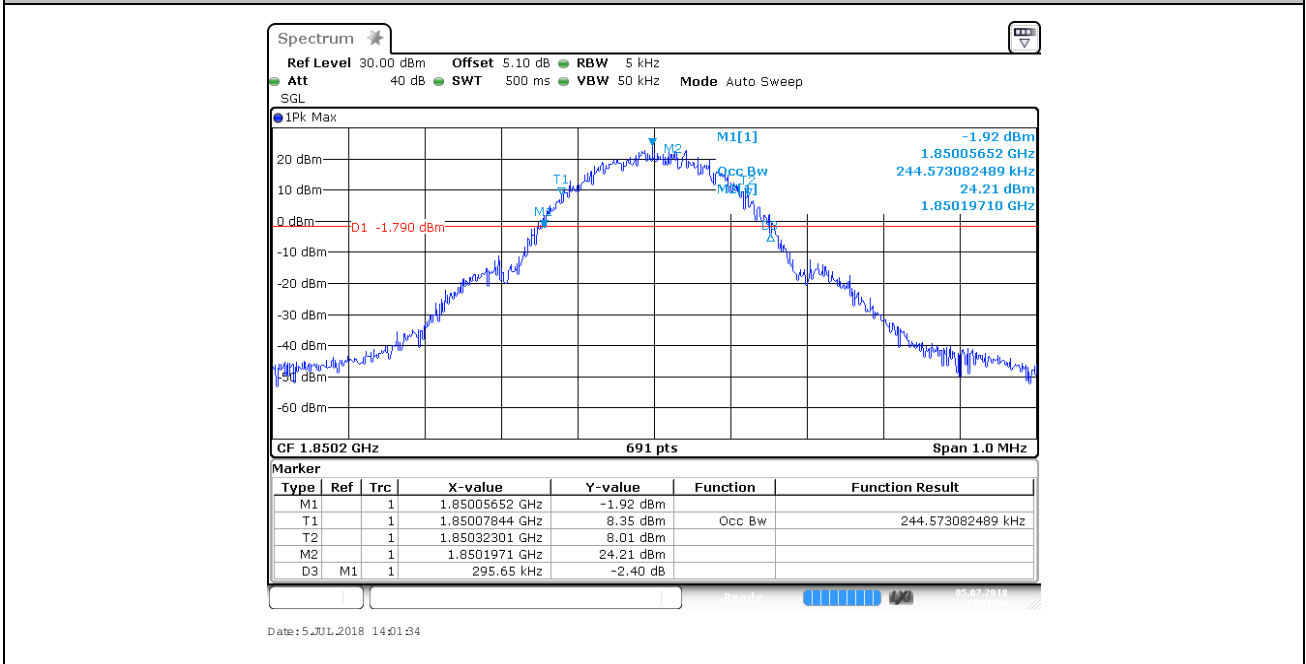
GSM850/TM2_190



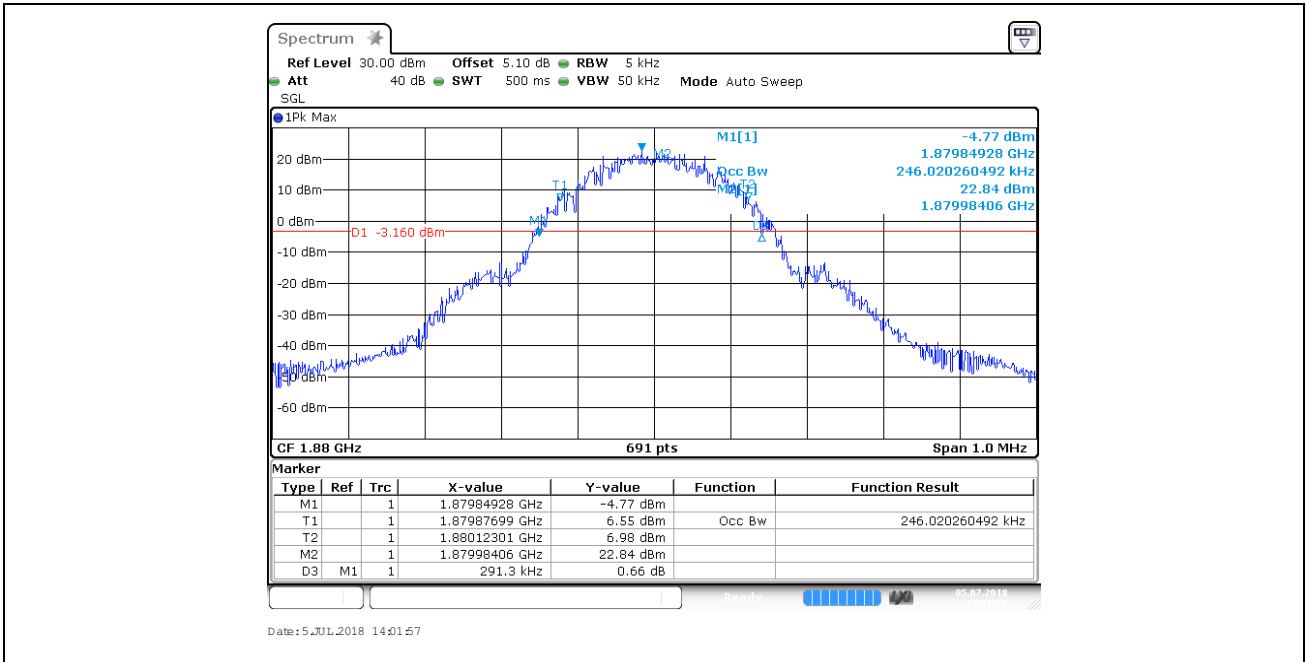
GSM850/TM2_251



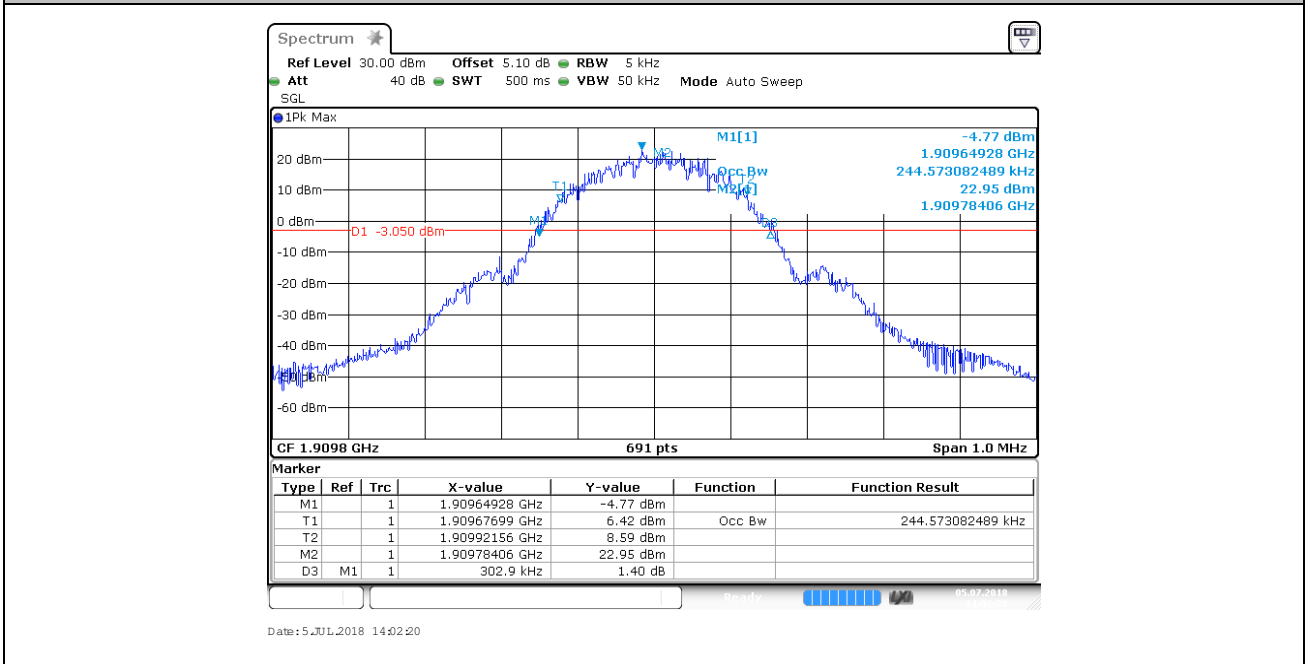
GSM1900/TM1_512



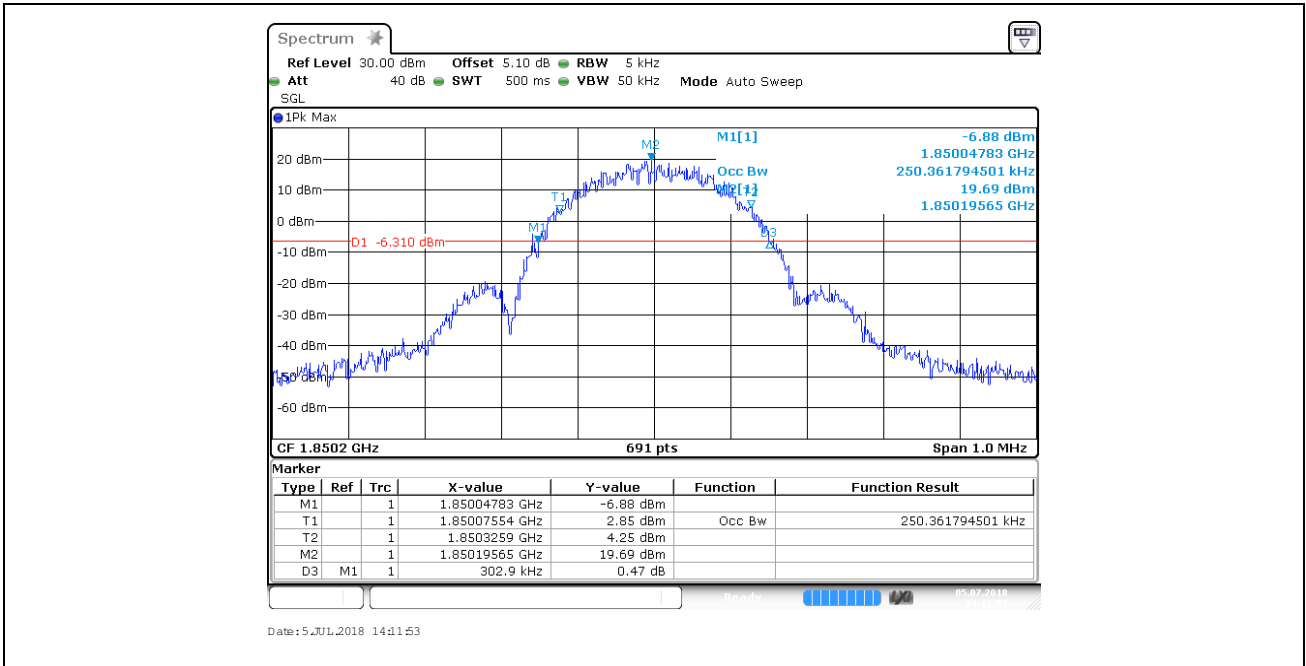
GSM1900/TM1_661



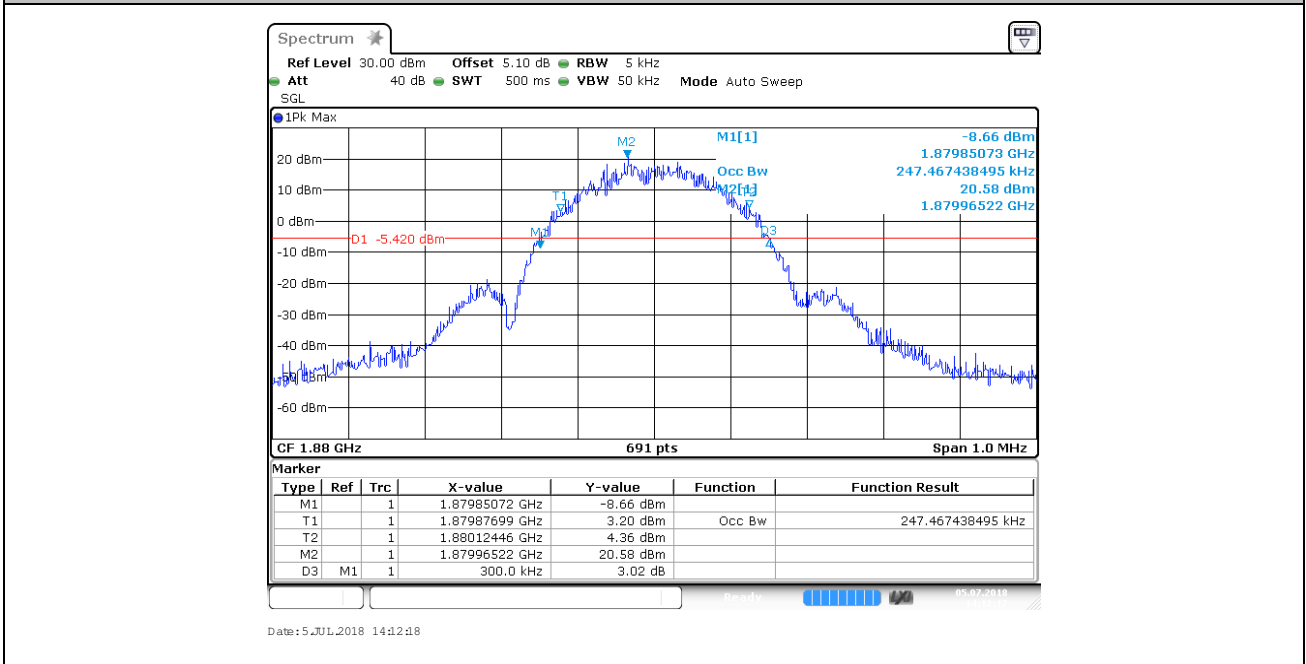
GSM1900/TM1_810



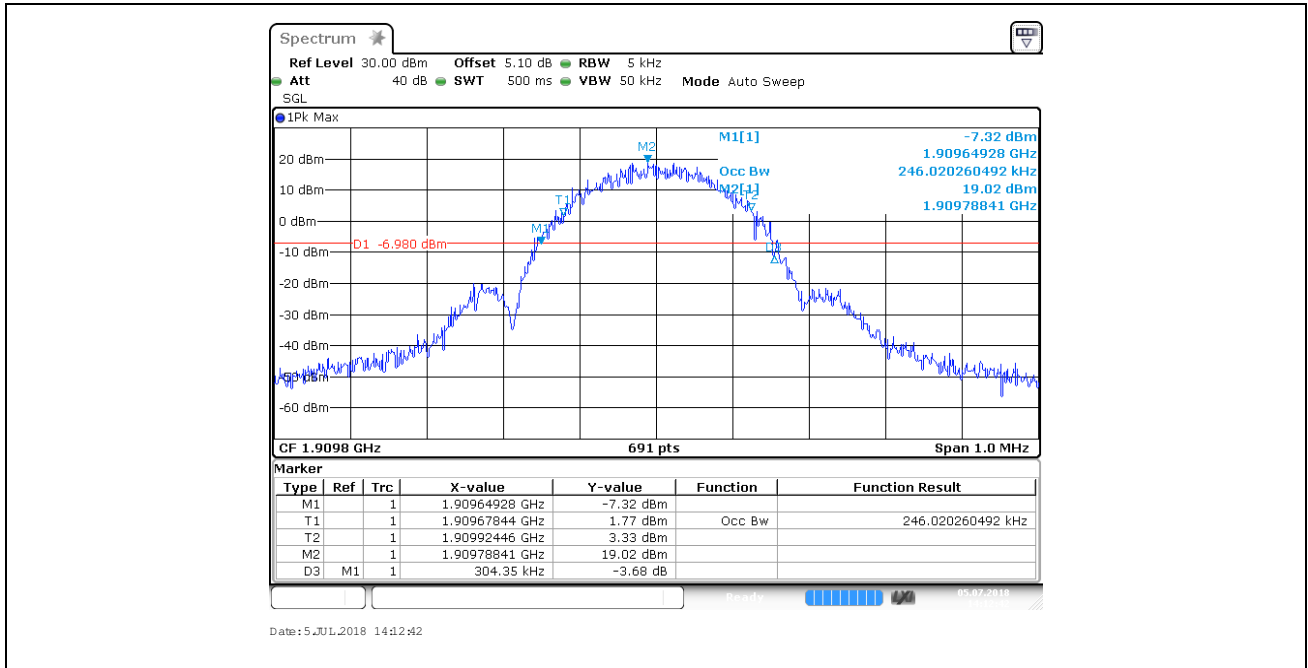
GSM1900/TM2_512



GSM1900/TM2_661

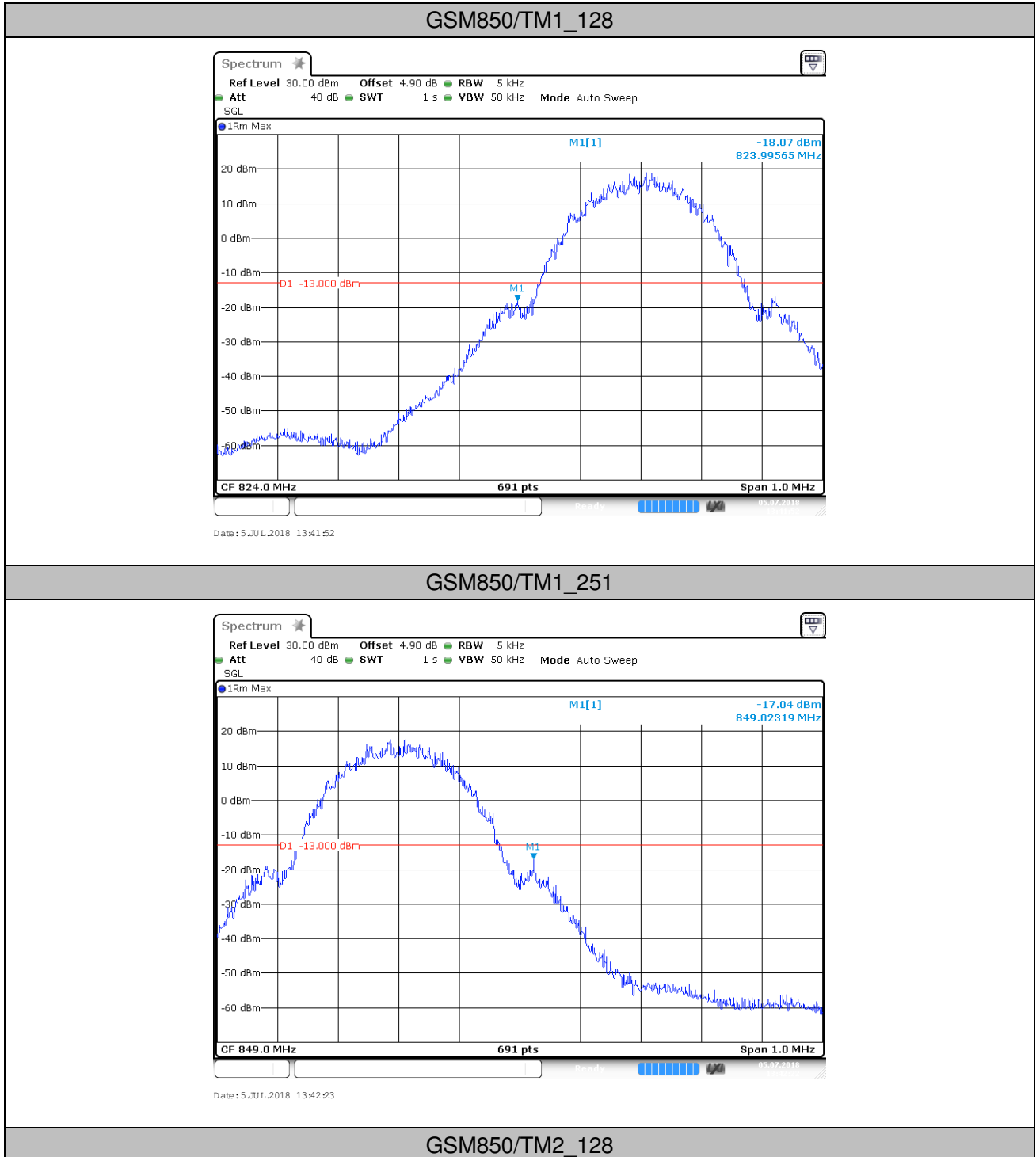


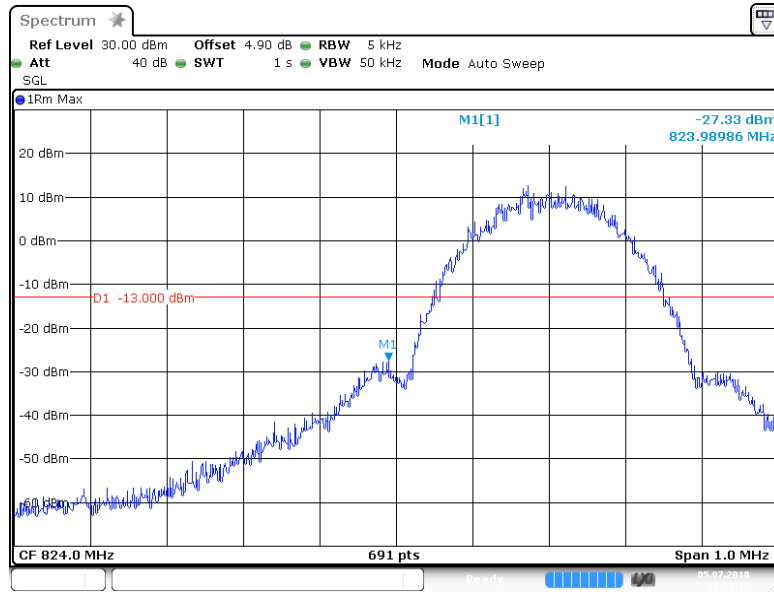
GSM1900/TM2_810



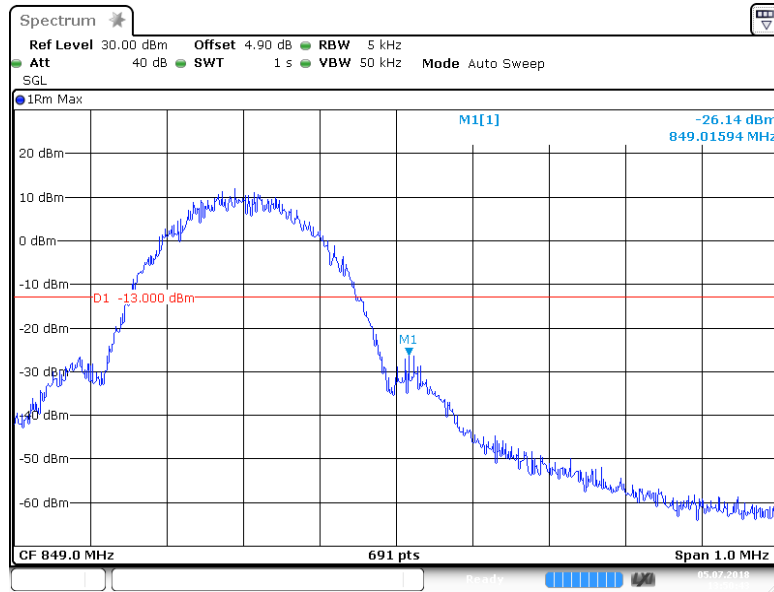
5. Band Edge Compliance

5.1. Test Plots

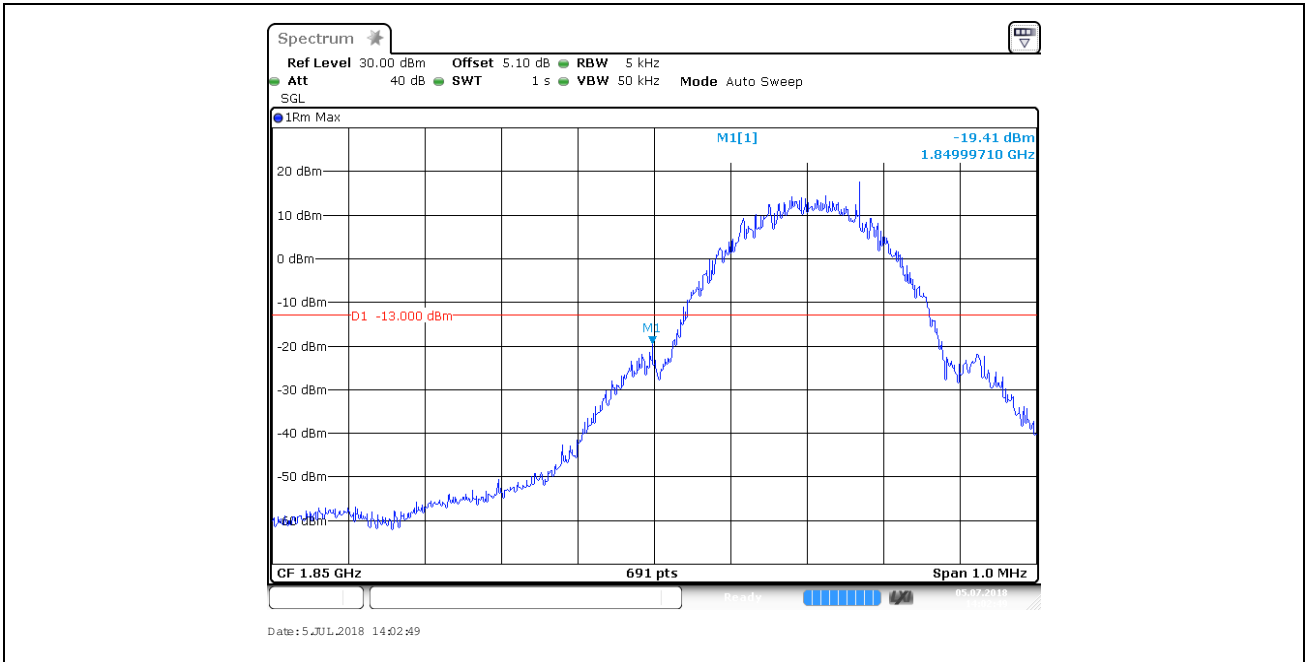




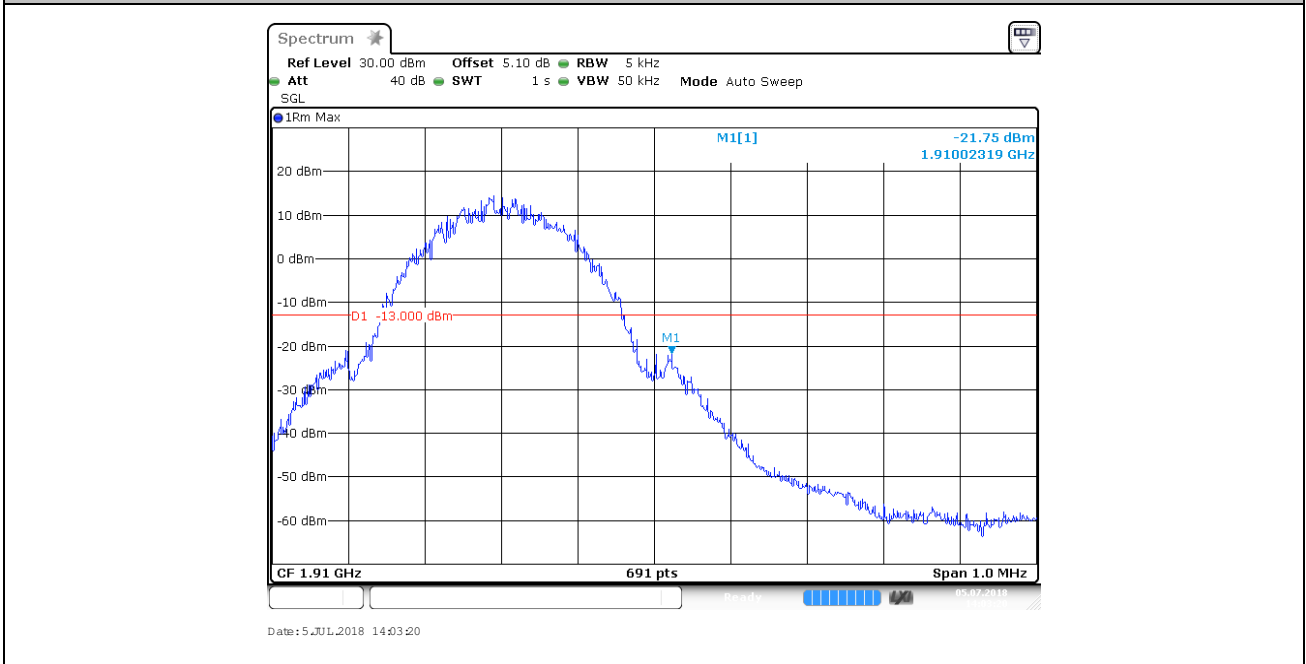
GSM850/TM2_251



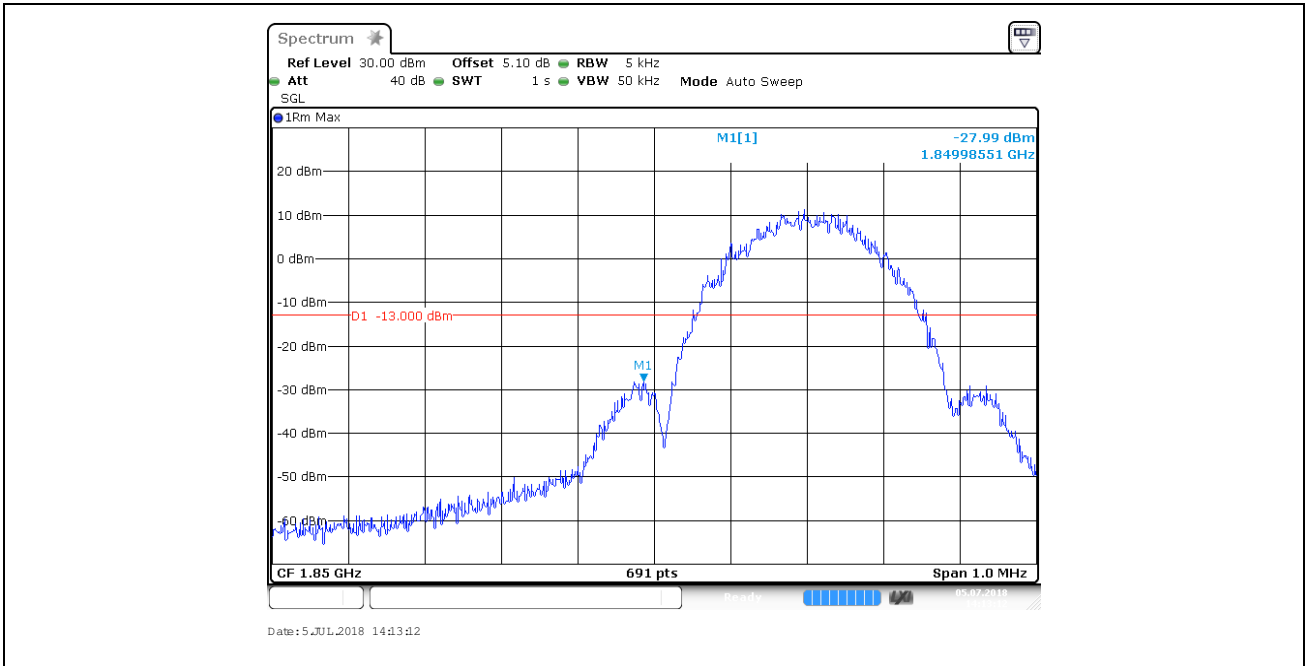
GSM1900/TM1_512



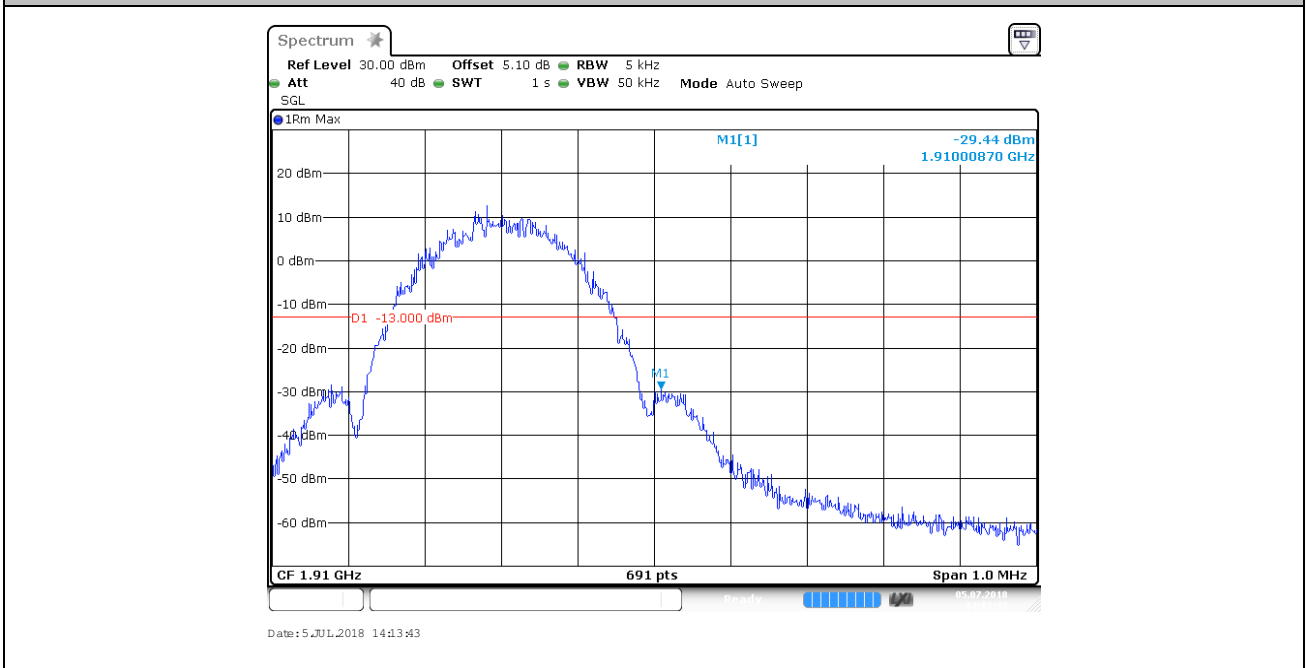
GSM1900/TM1_810



GSM1900/TM2_512



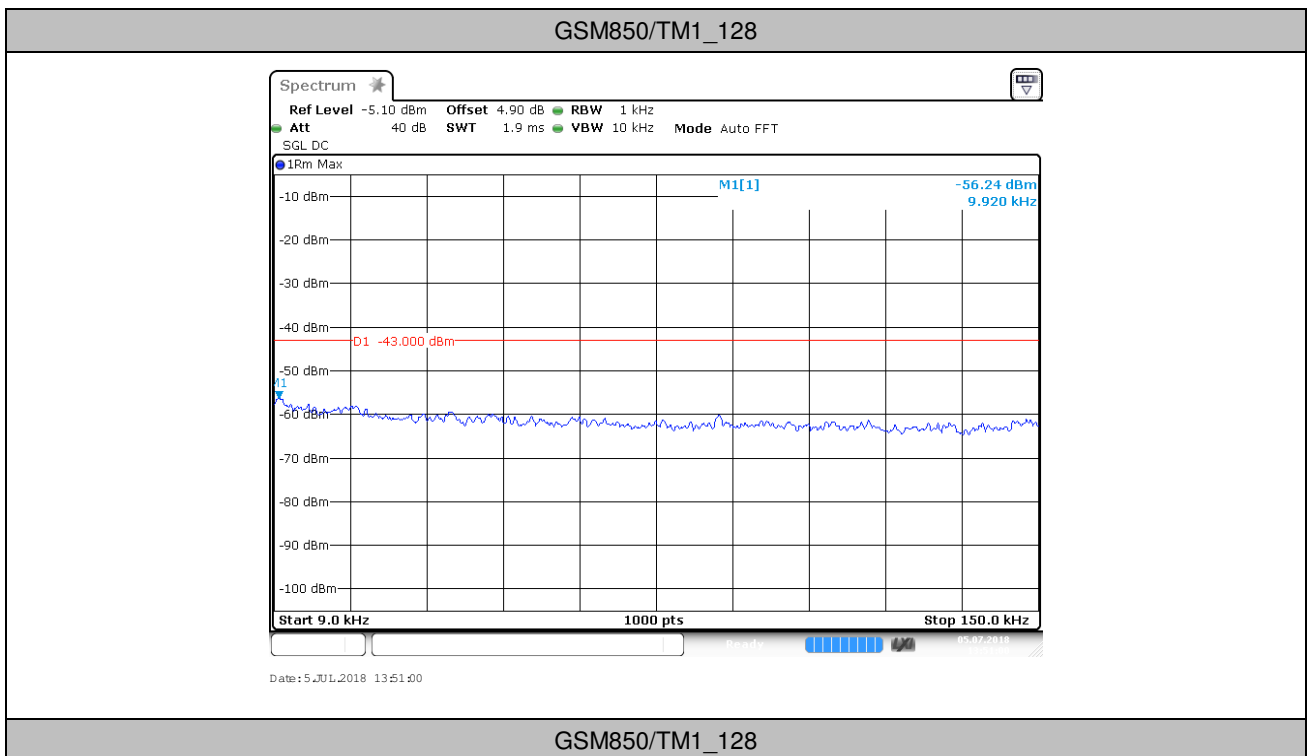
GSM1900/TM2_810

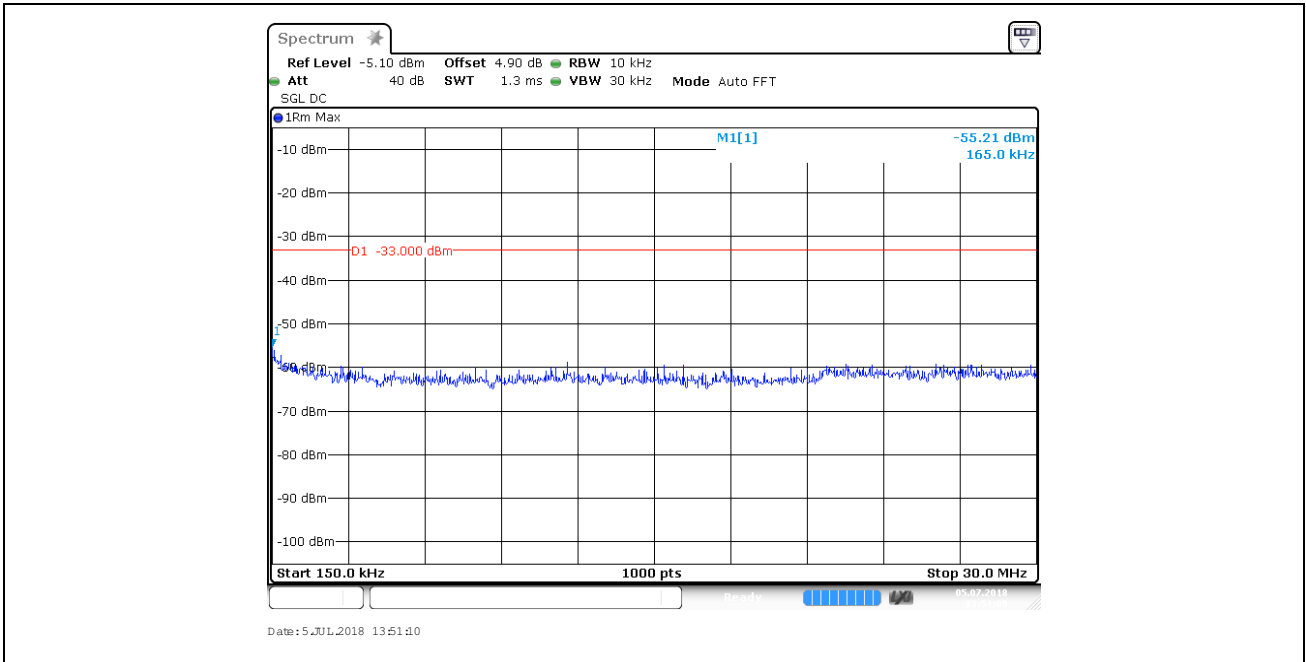


6. Spurious Emission at Antenna Terminal

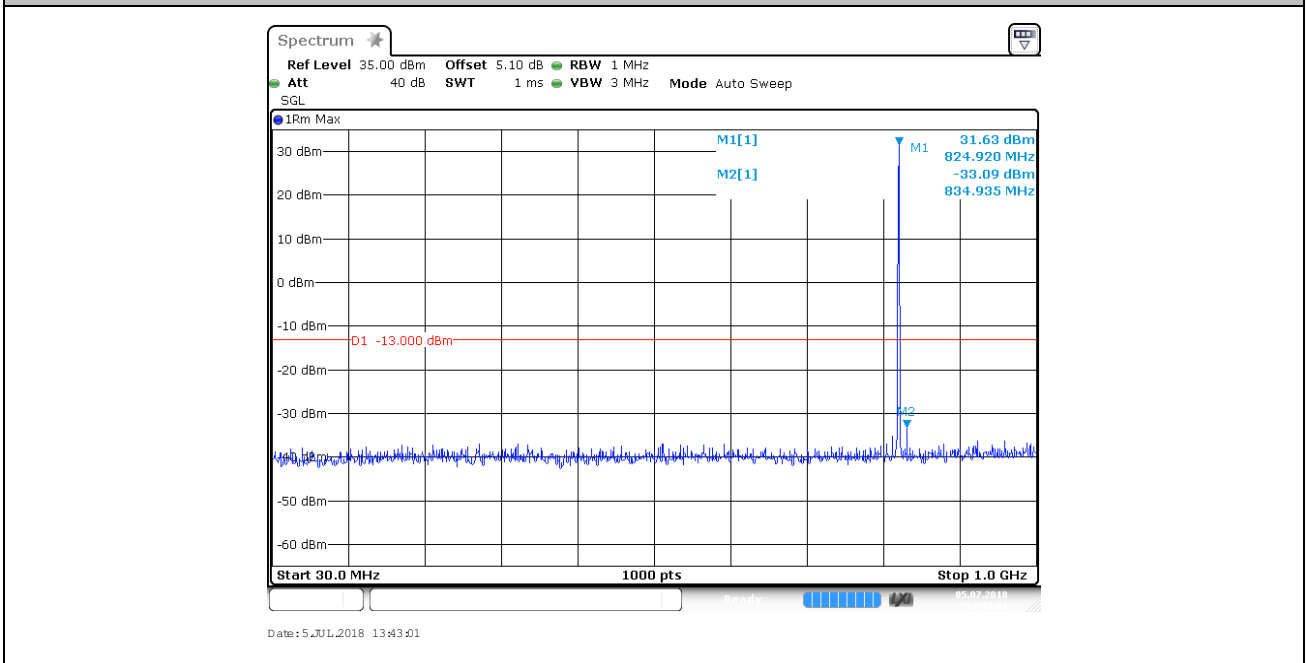
NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowBAND signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k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

6.1. Test Plots

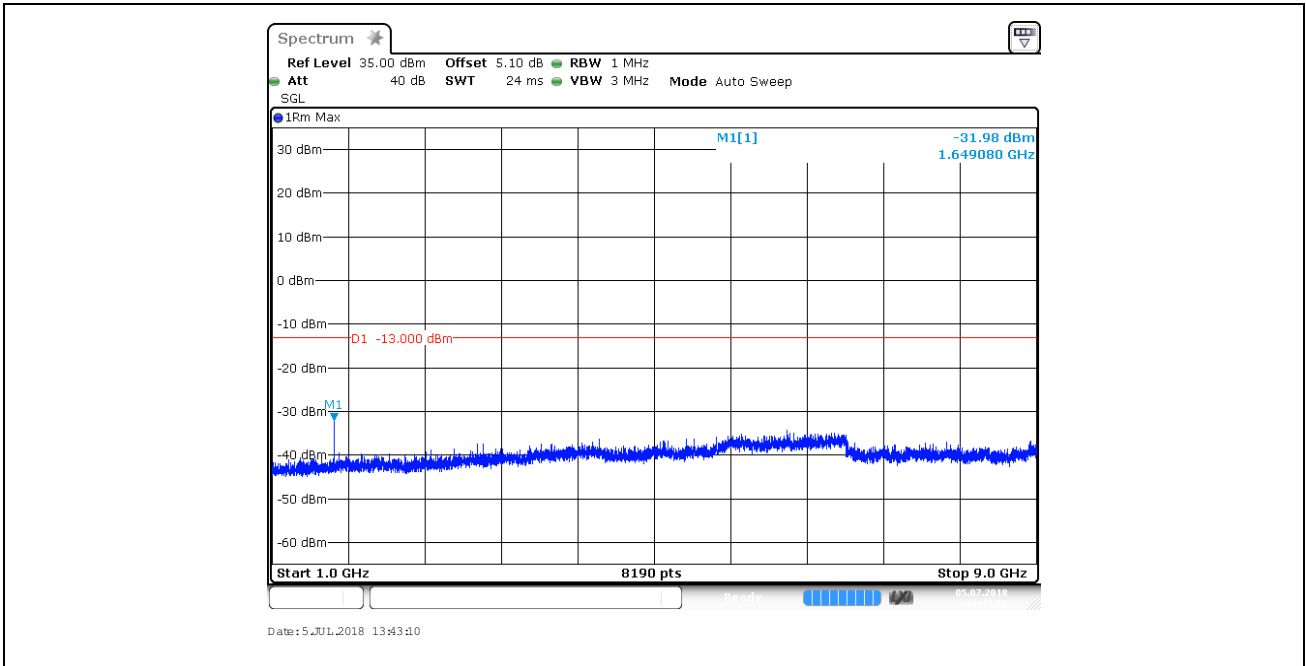




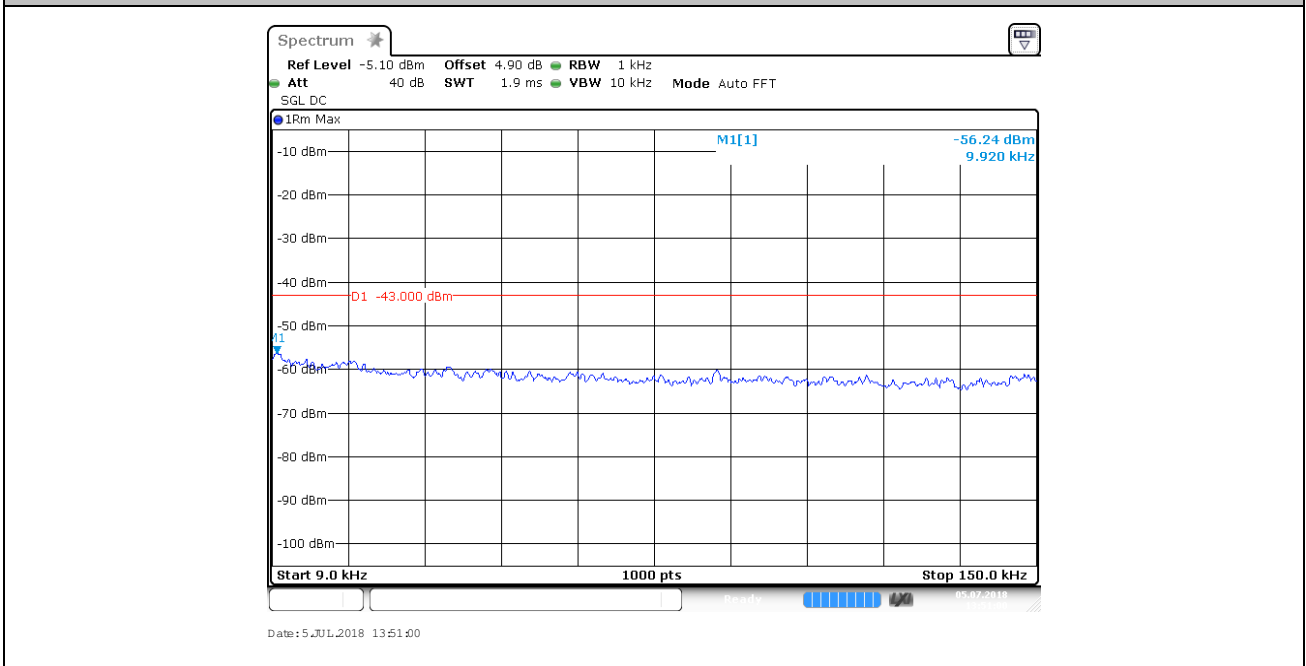
GSM850/TM1_128



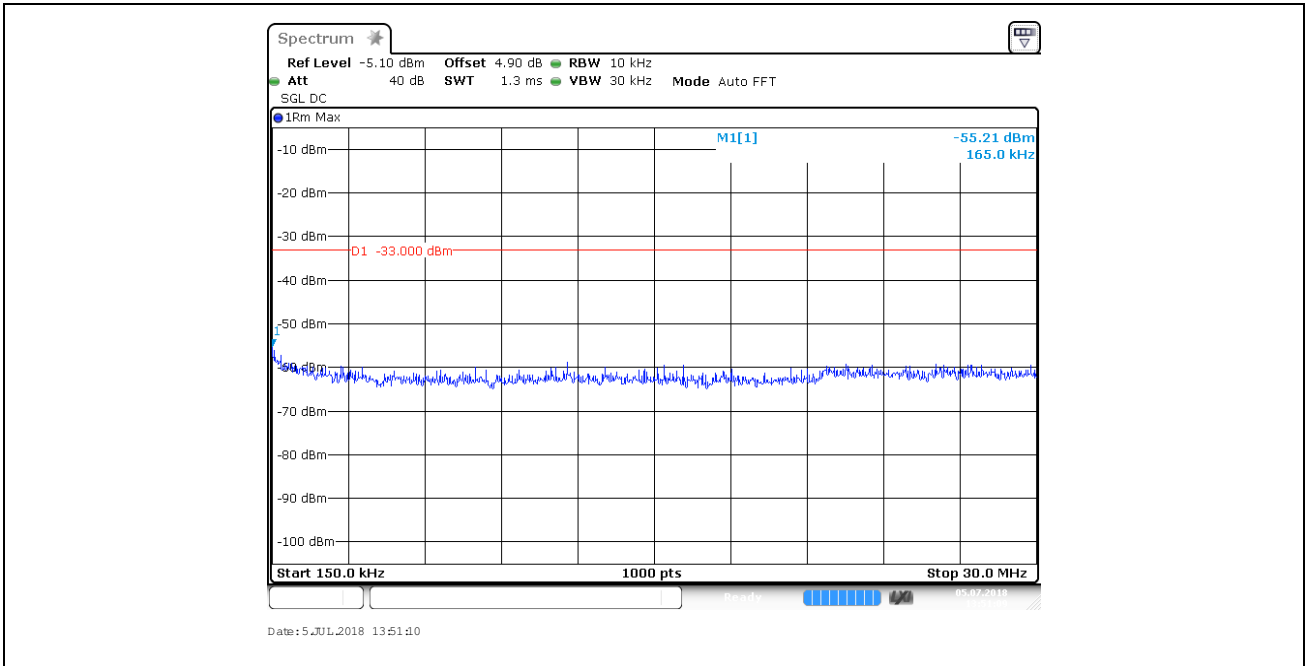
GSM850/TM1_128



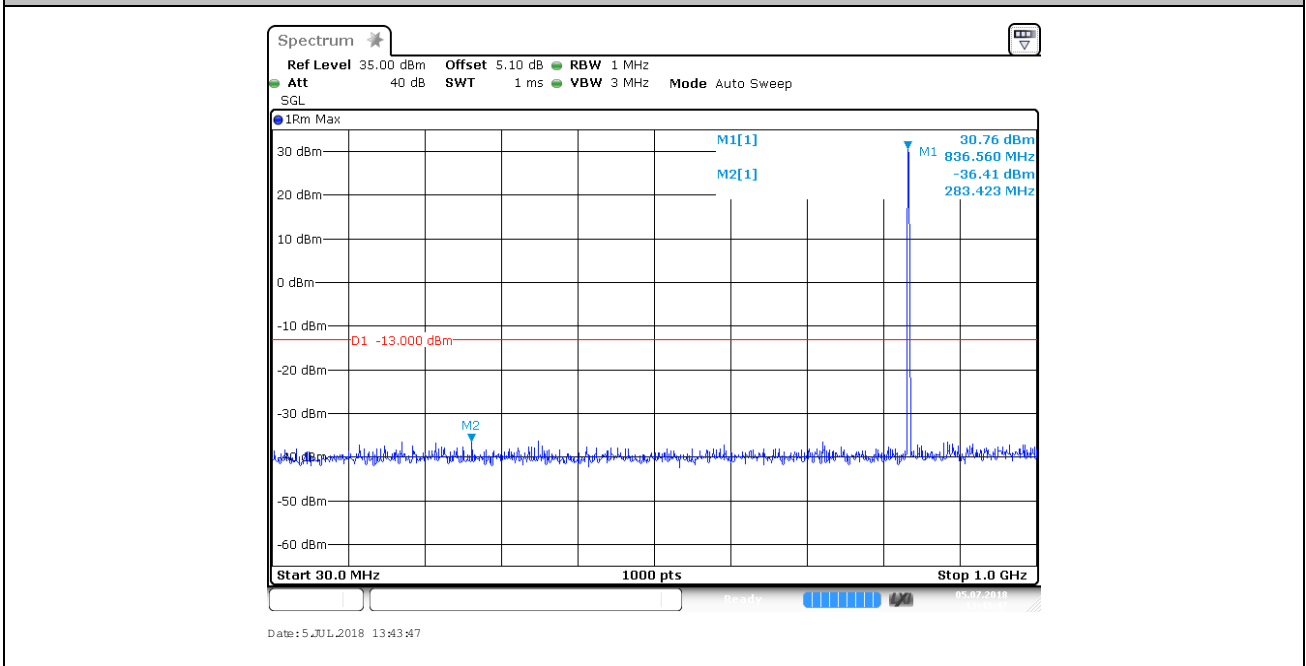
GSM850/TM1_190



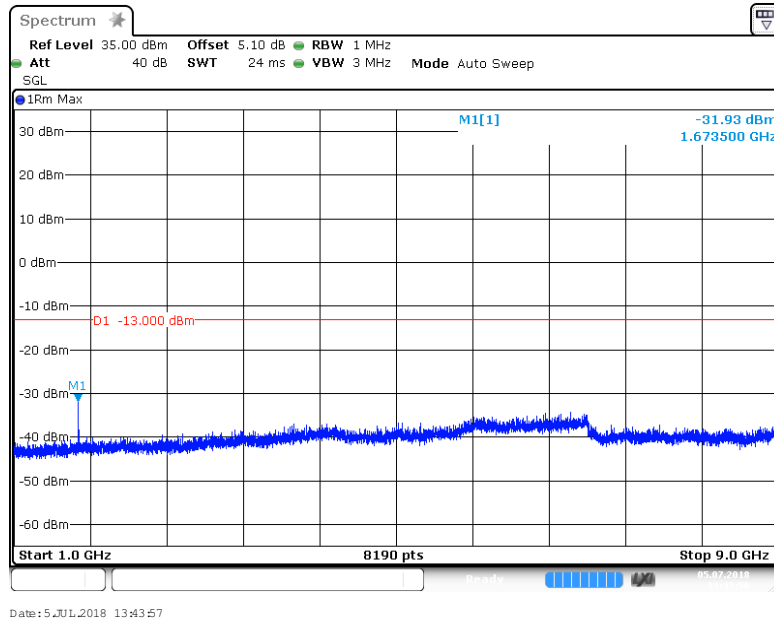
GSM850/TM1_190



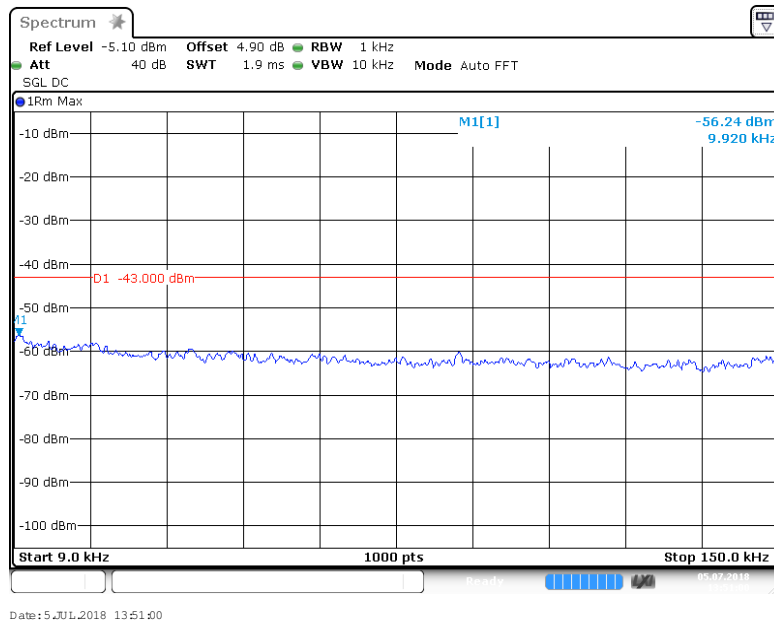
GSM850/TM1_190



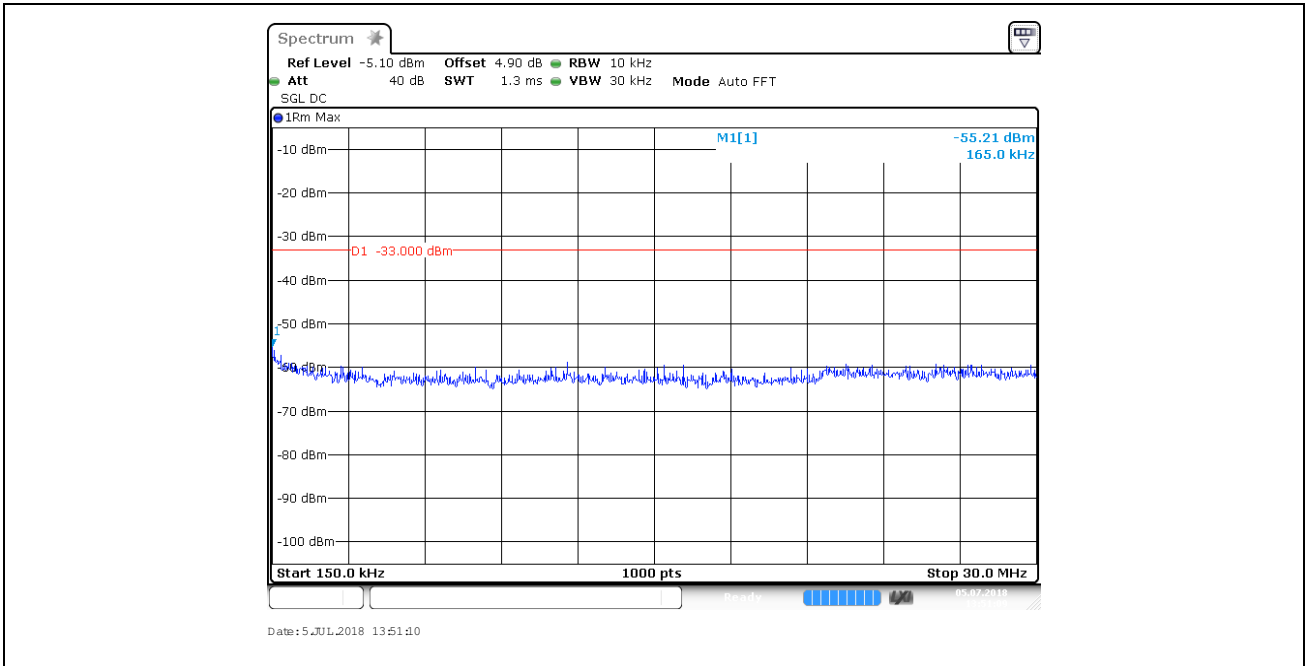
GSM850/TM1_190



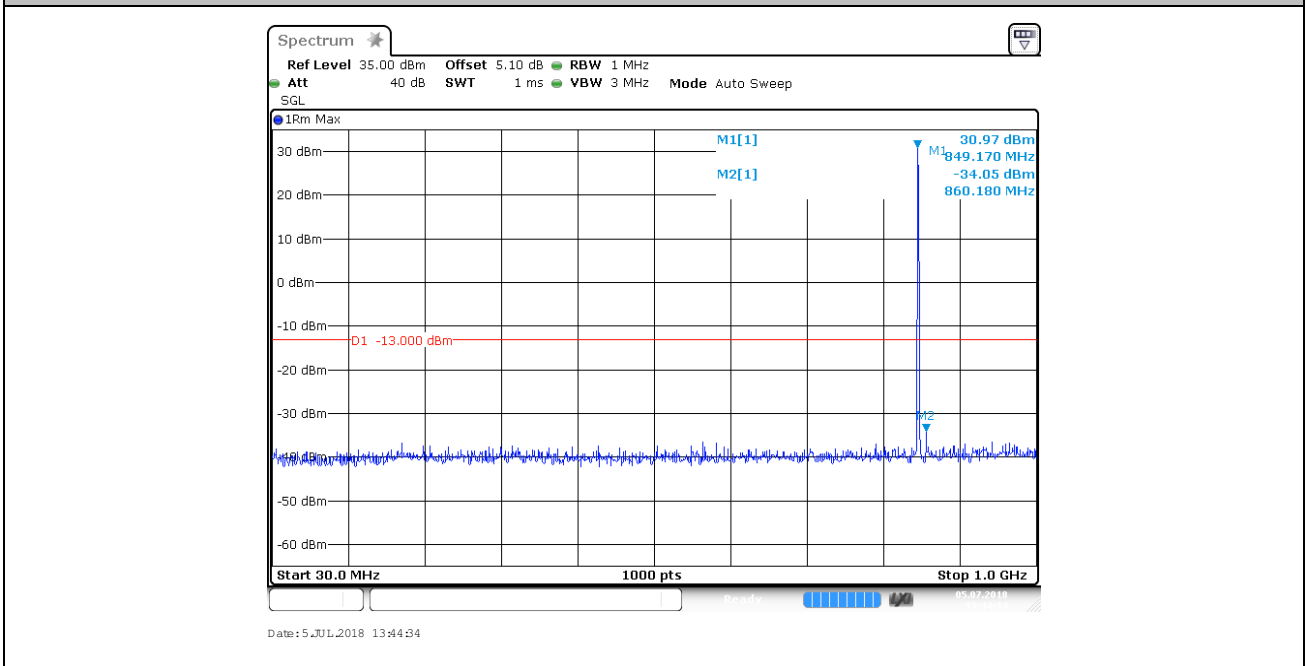
GSM850/TM1_251



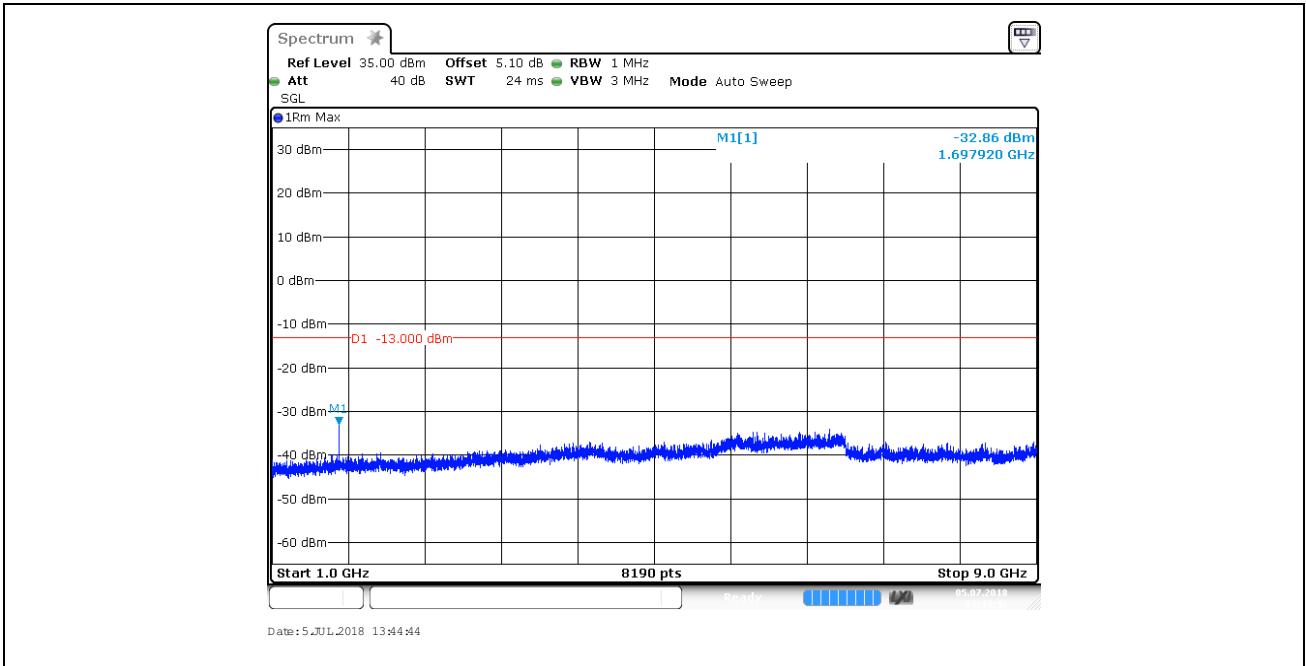
GSM850/TM1_251



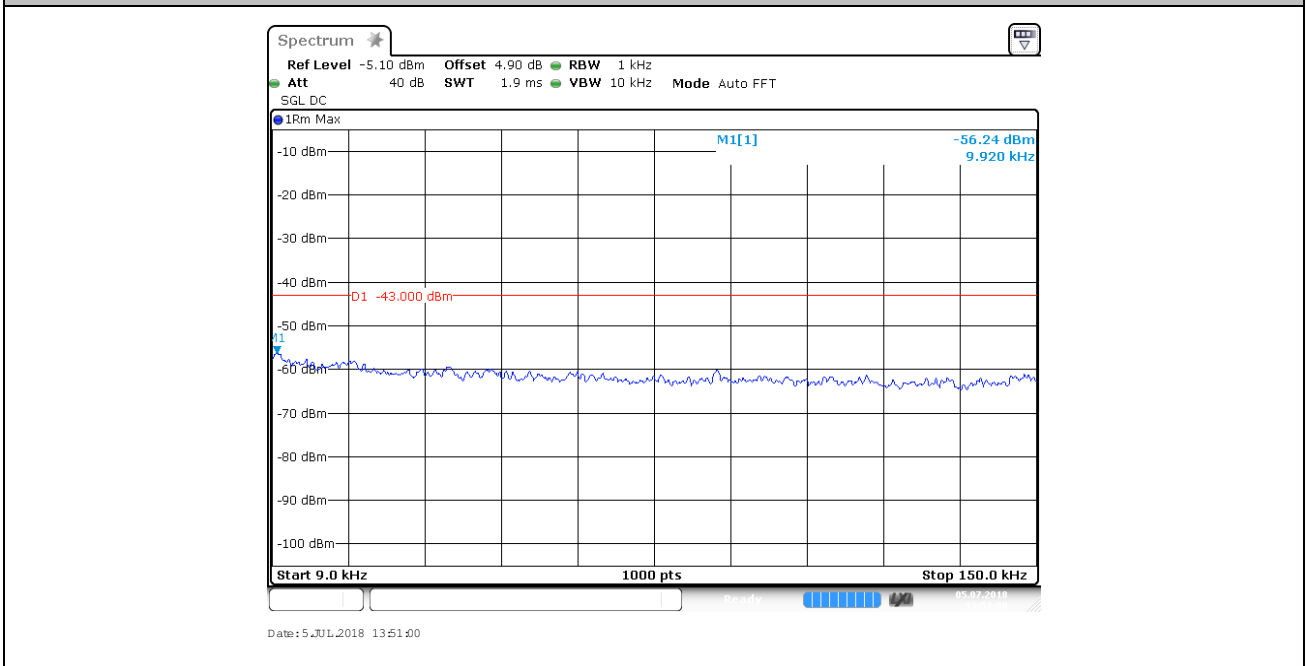
GSM850/TM1_251



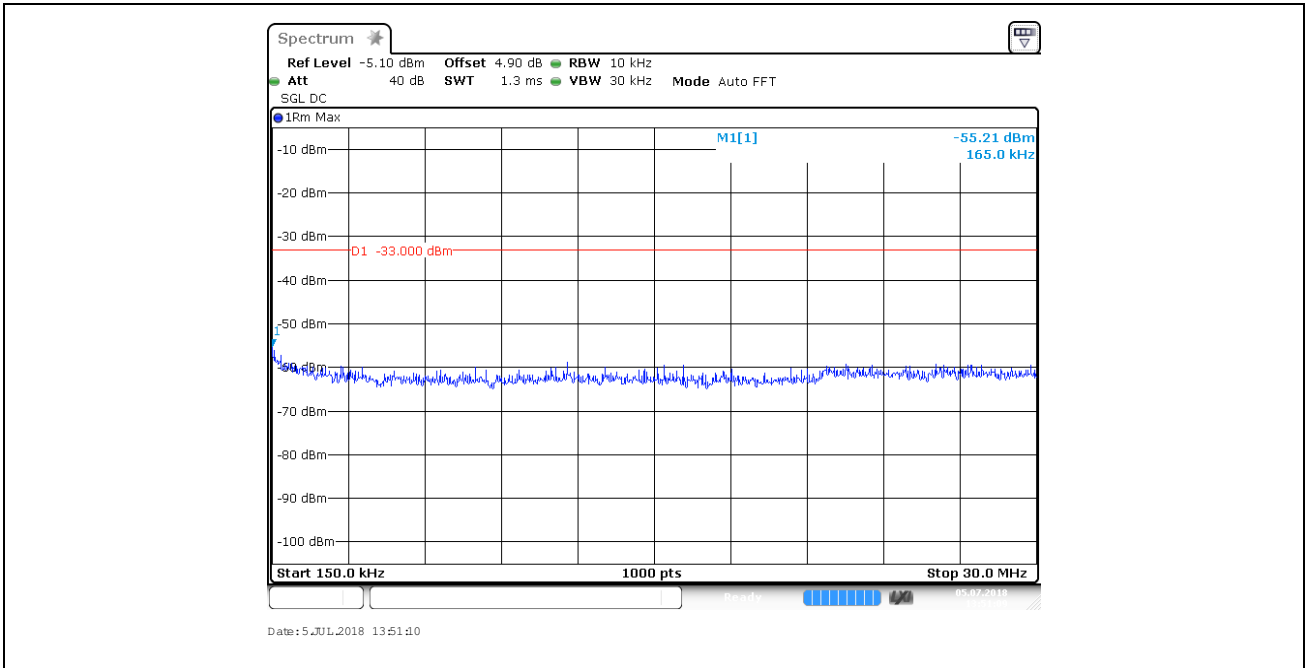
GSM850/TM1_251



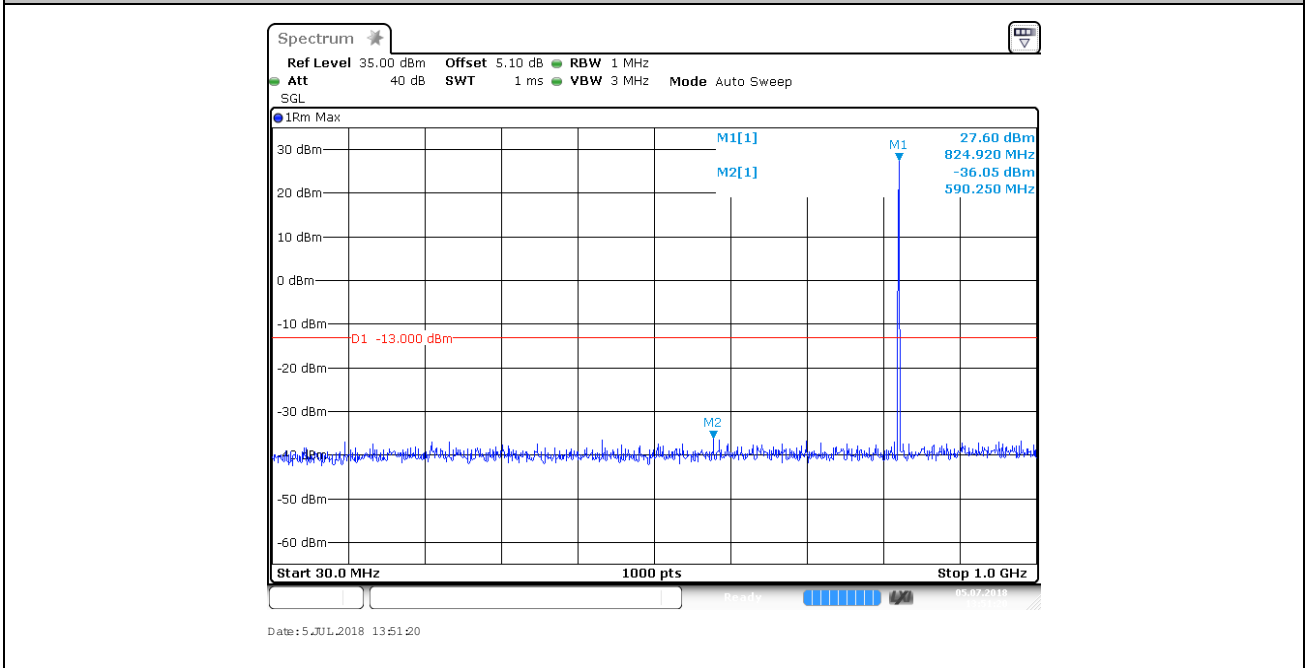
GSM850/TM2_128



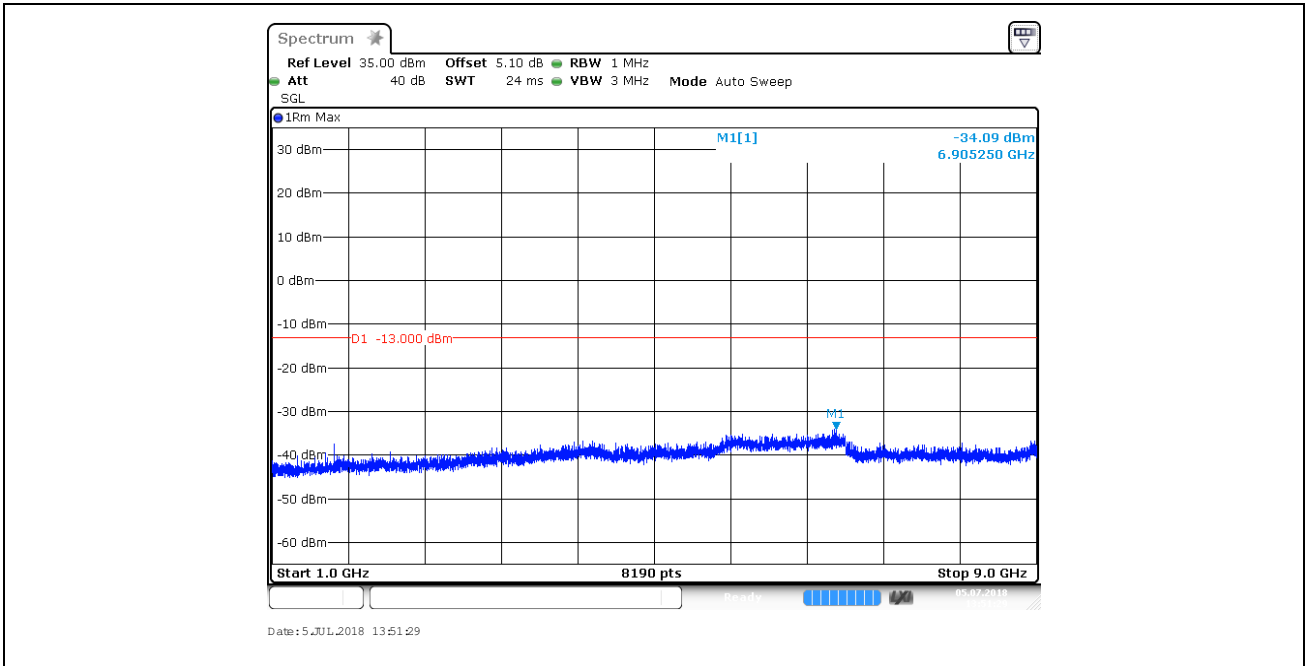
GSM850/TM2_128



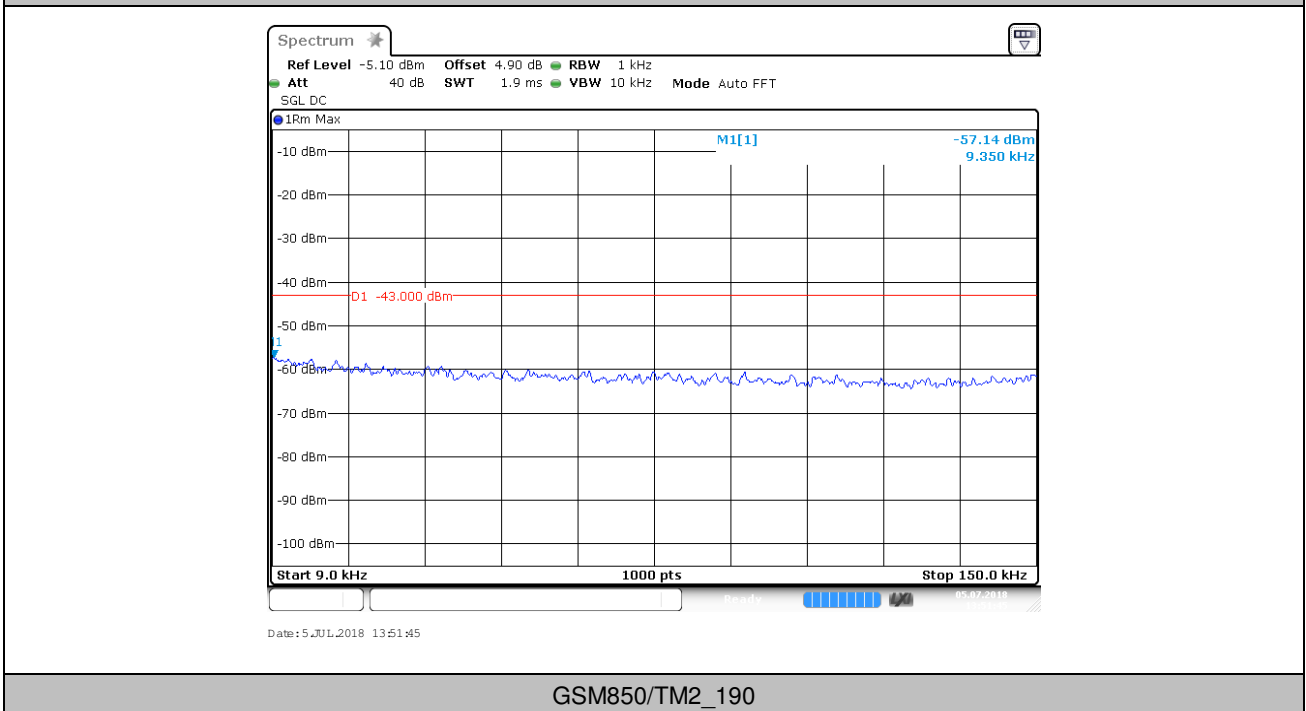
GSM850/TM2_128



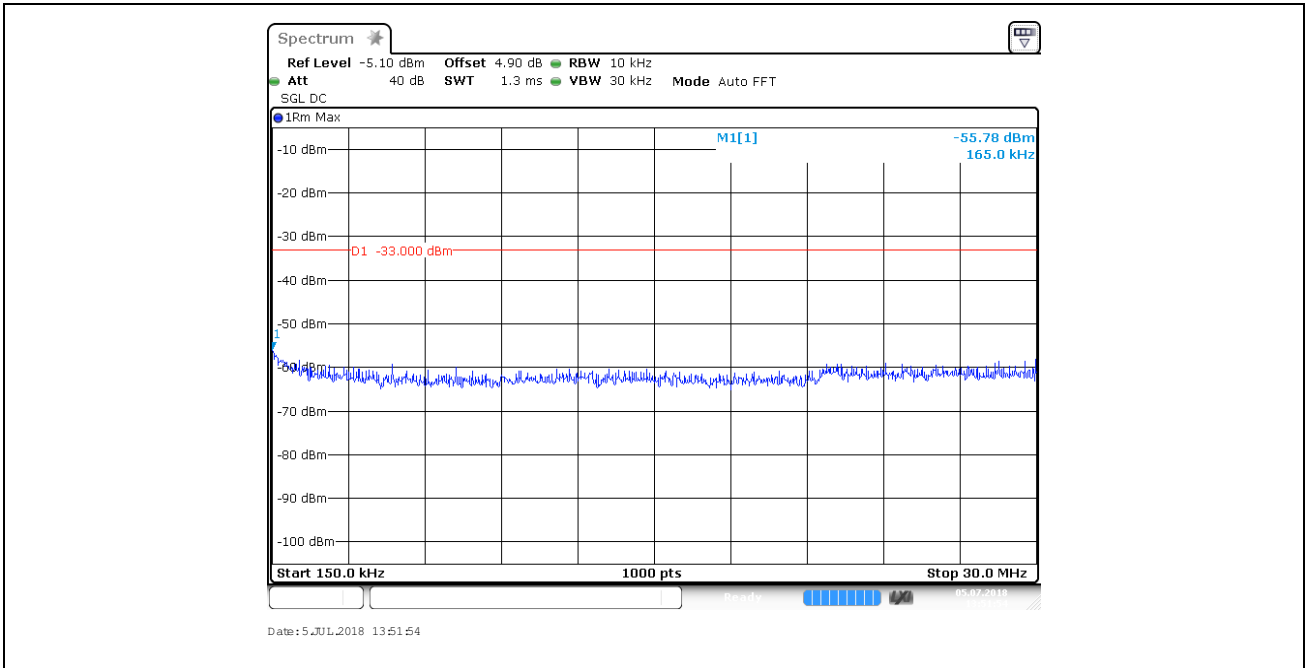
GSM850/TM2_128



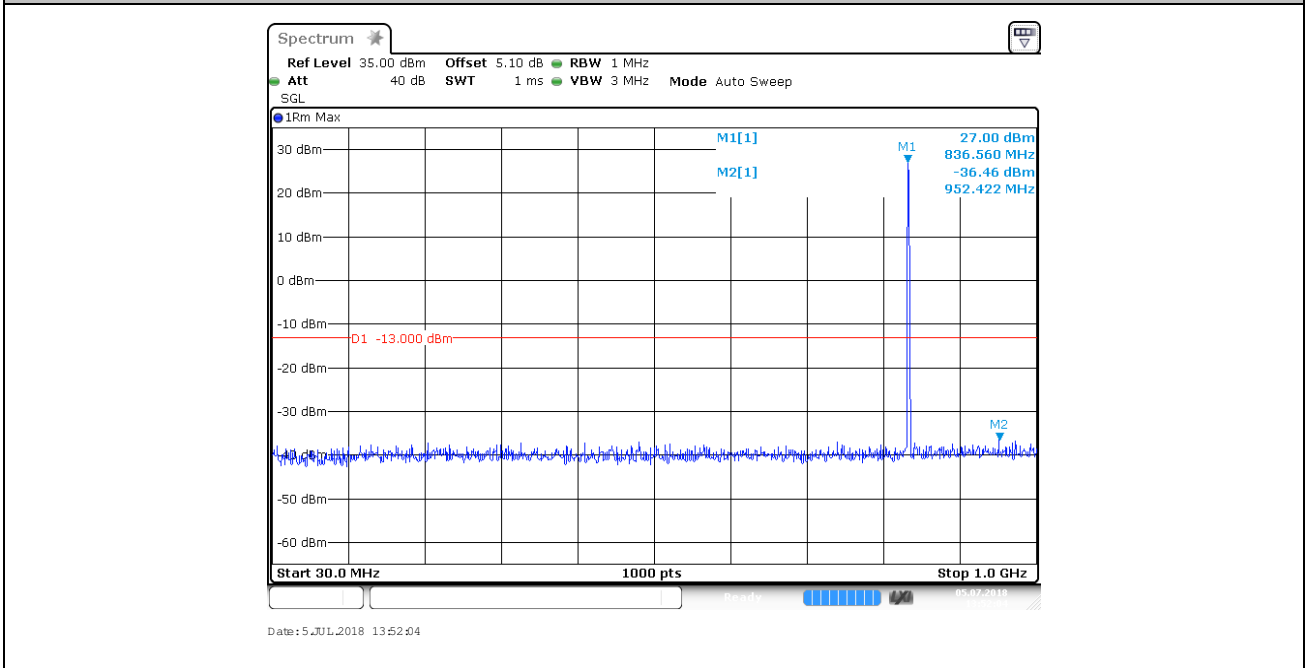
GSM850/TM2_190



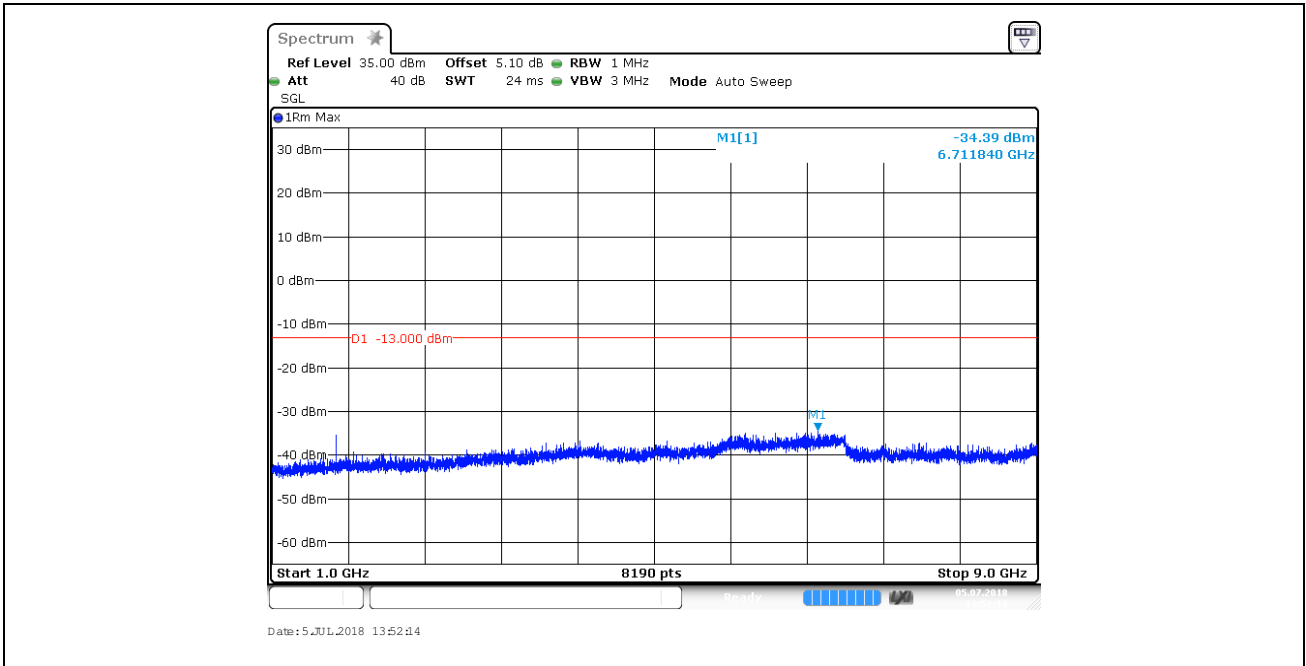
GSM850/TM2_190



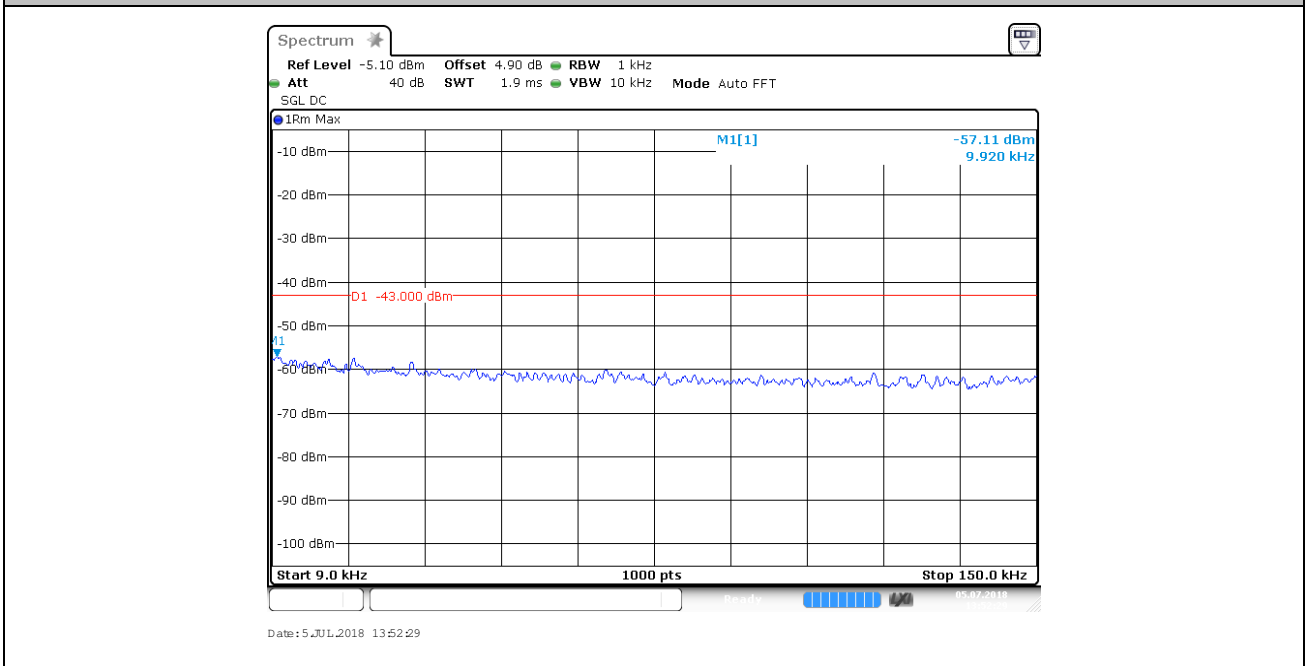
GSM850/TM2_190



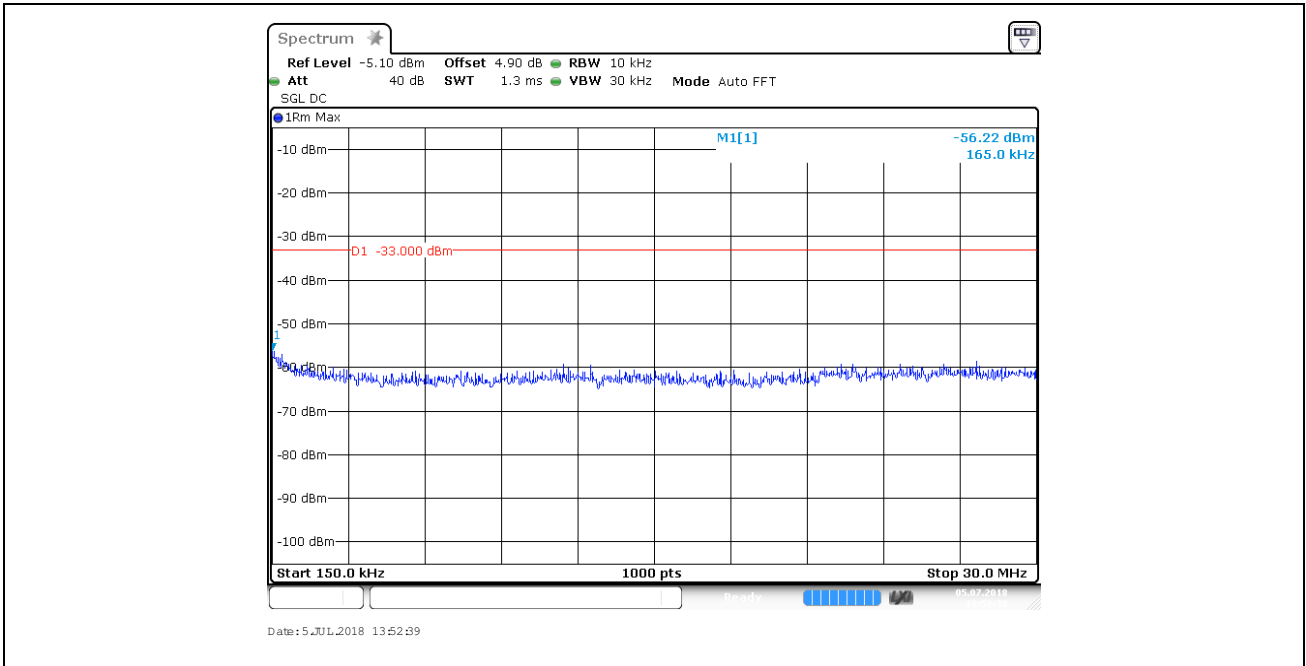
GSM850/TM2_190



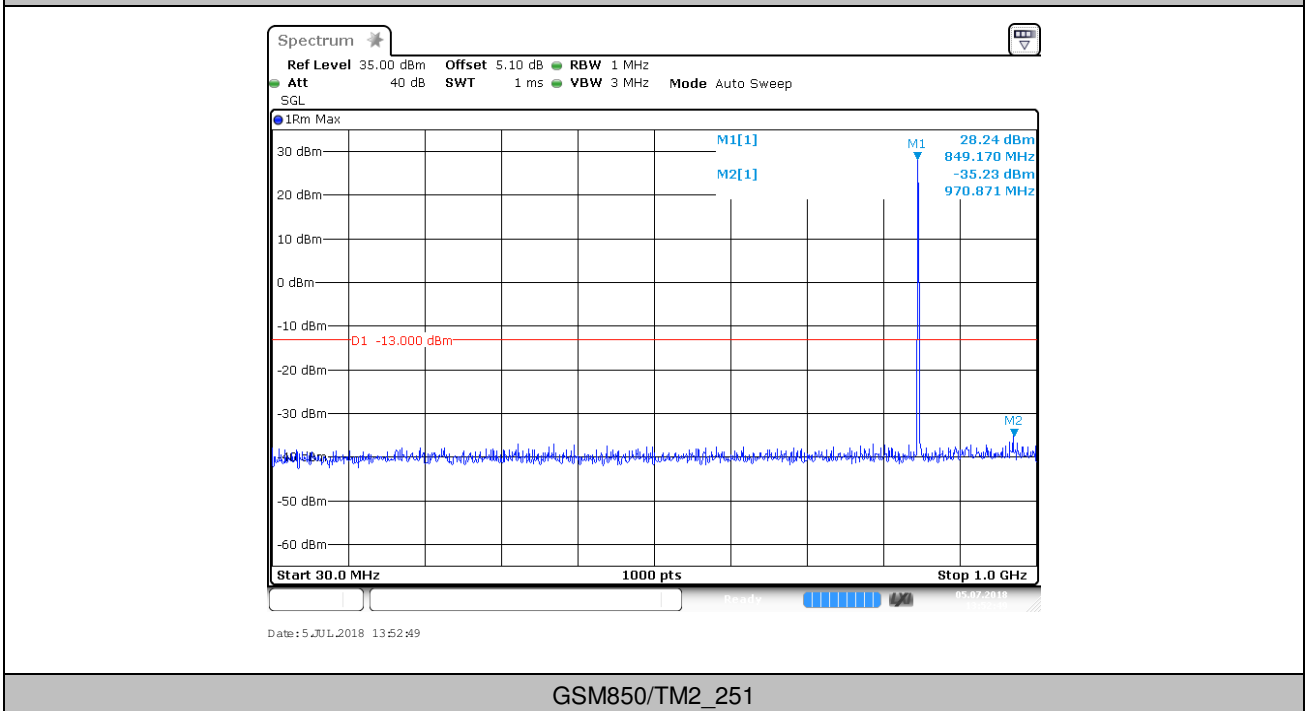
GSM850/TM2_251



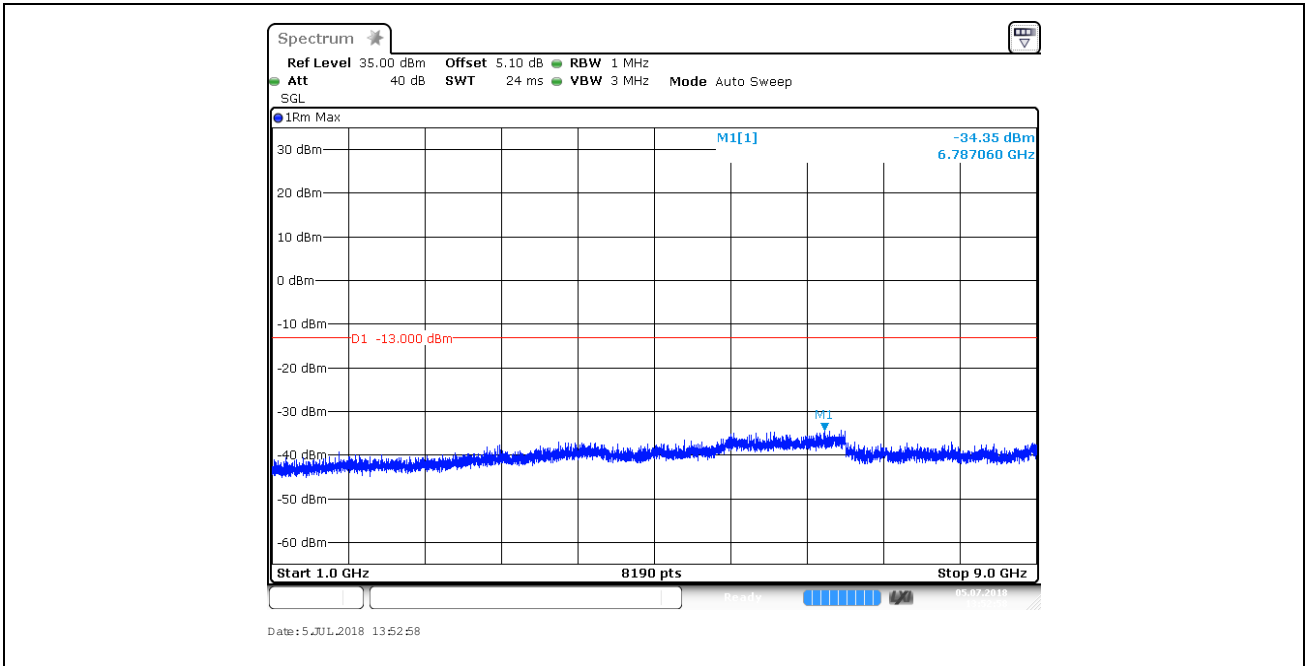
GSM850/TM2_251



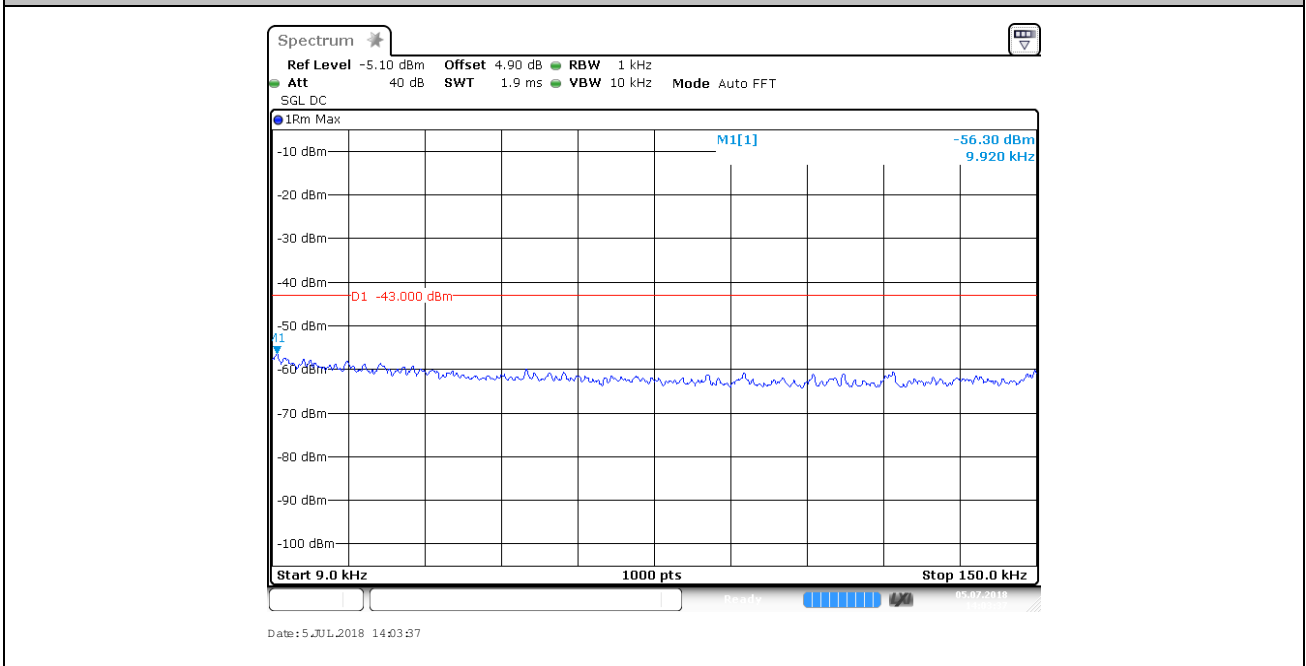
GSM850/TM2_251



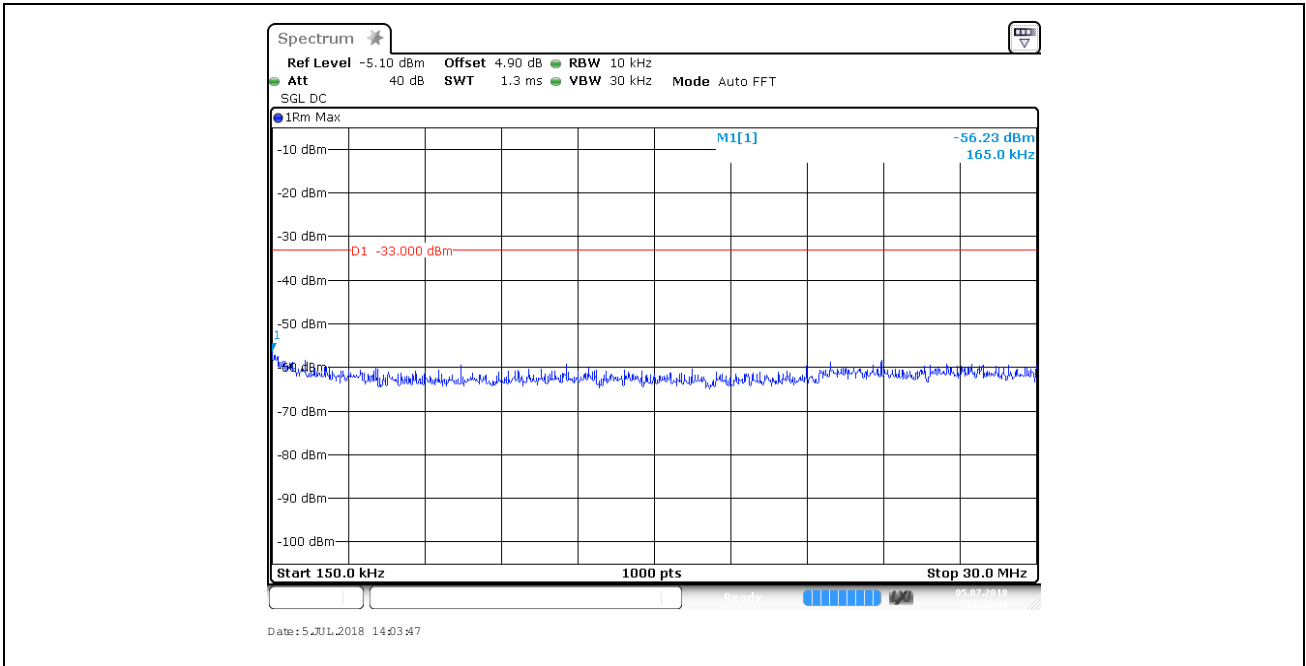
GSM850/TM2_251



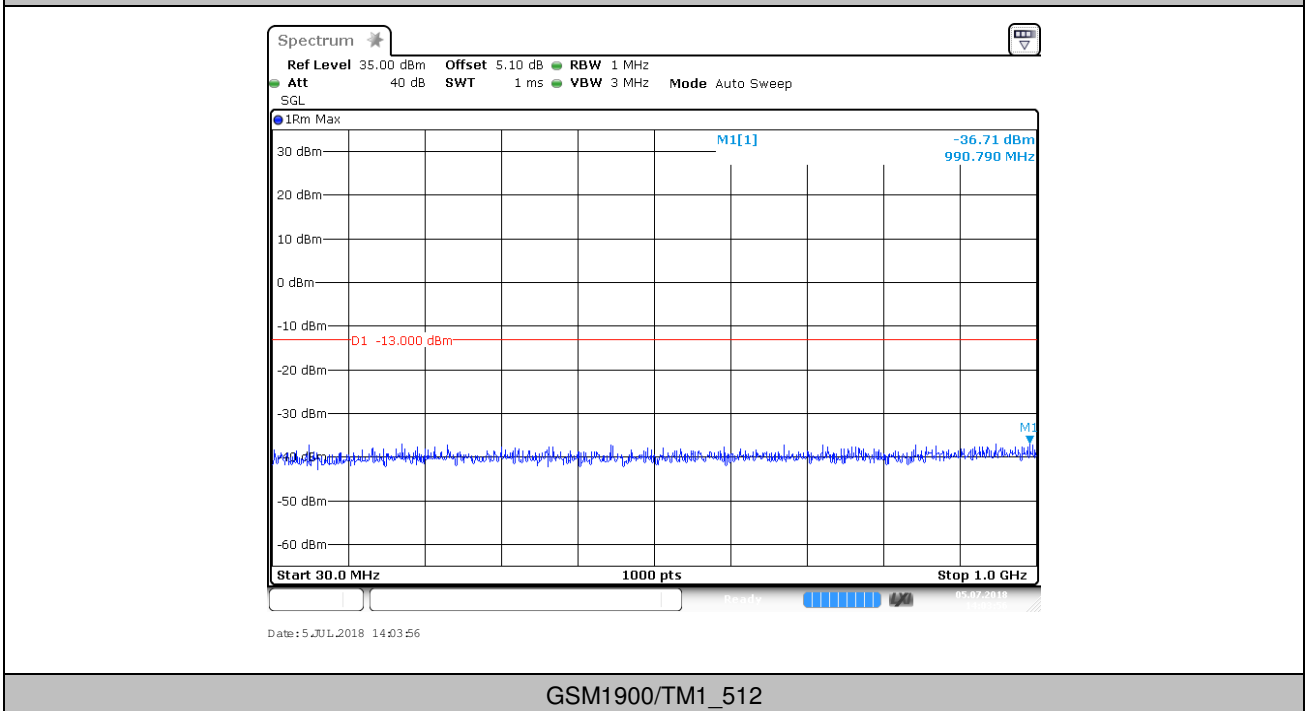
GSM1900/TM1_512



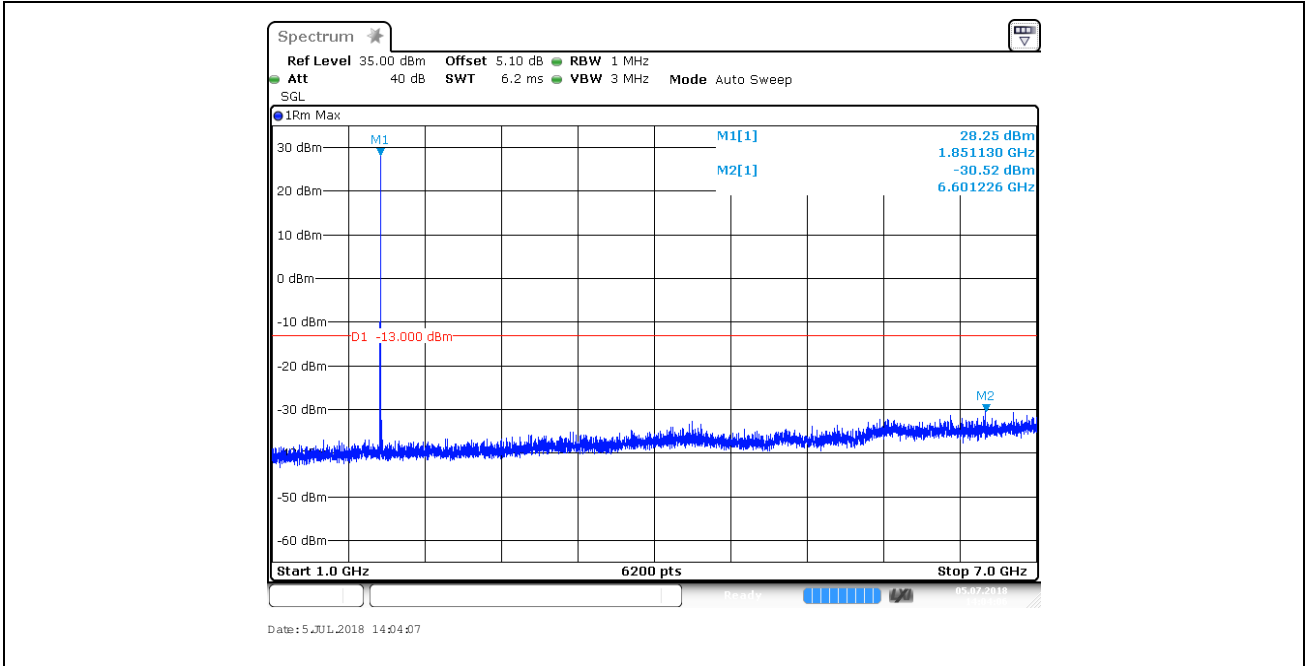
GSM1900/TM1_512



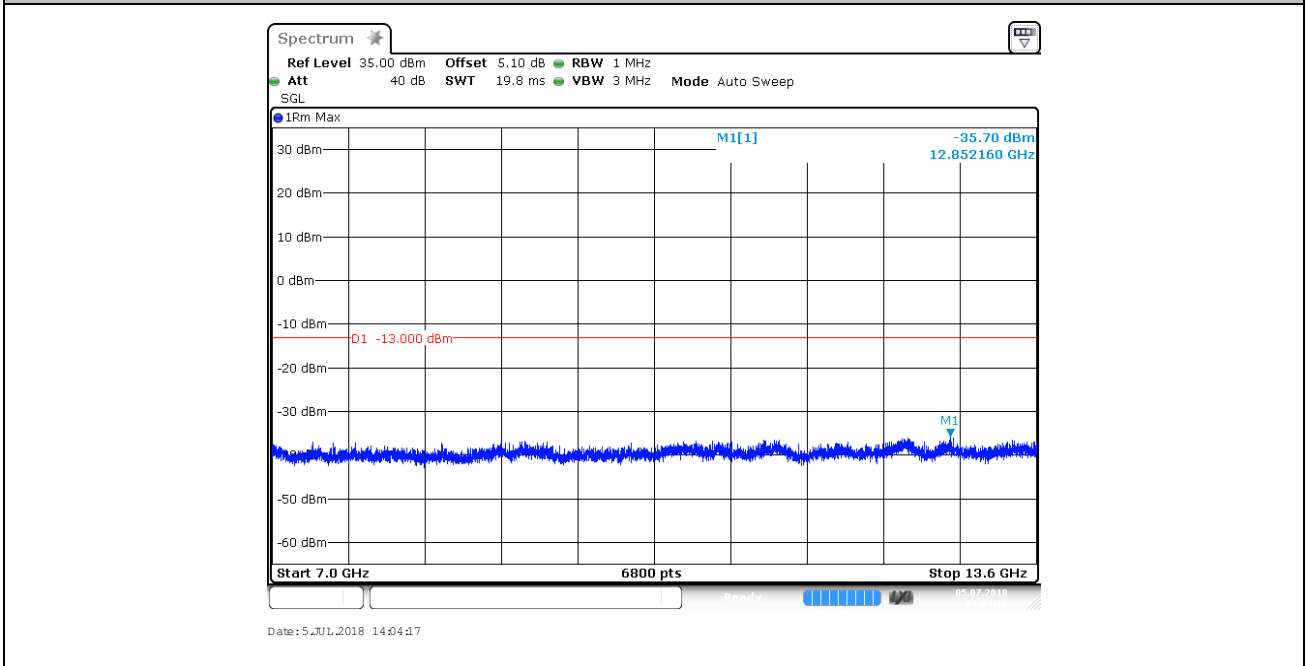
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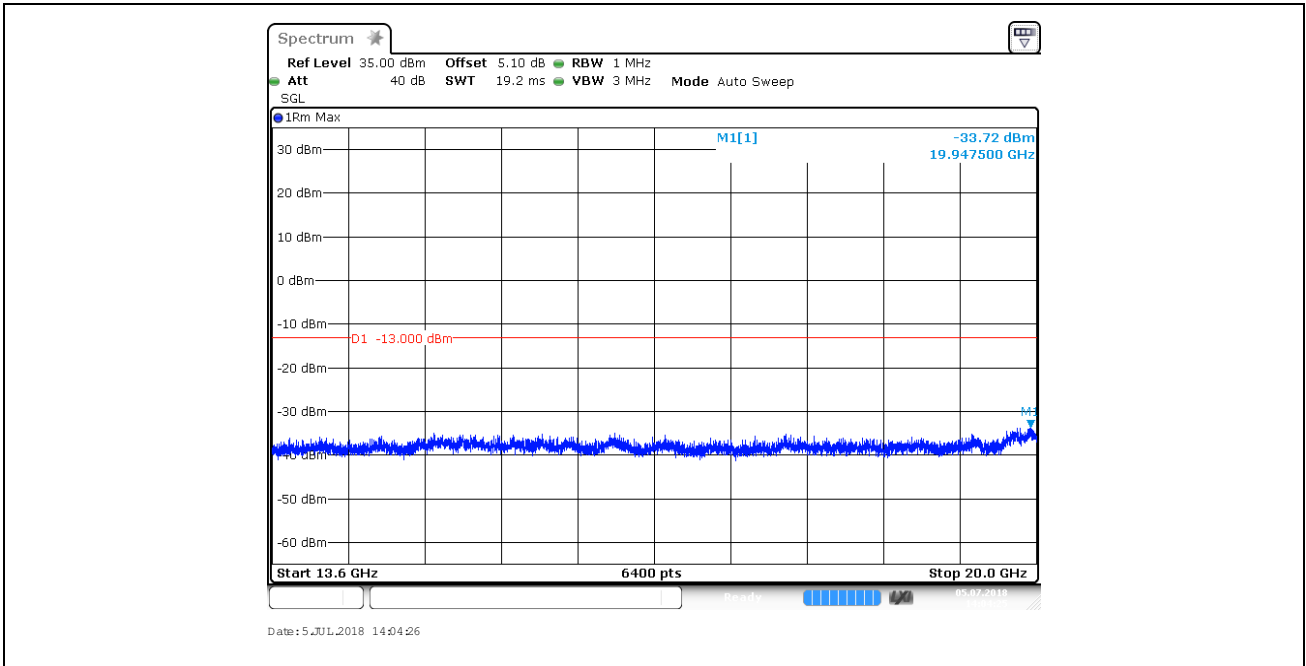
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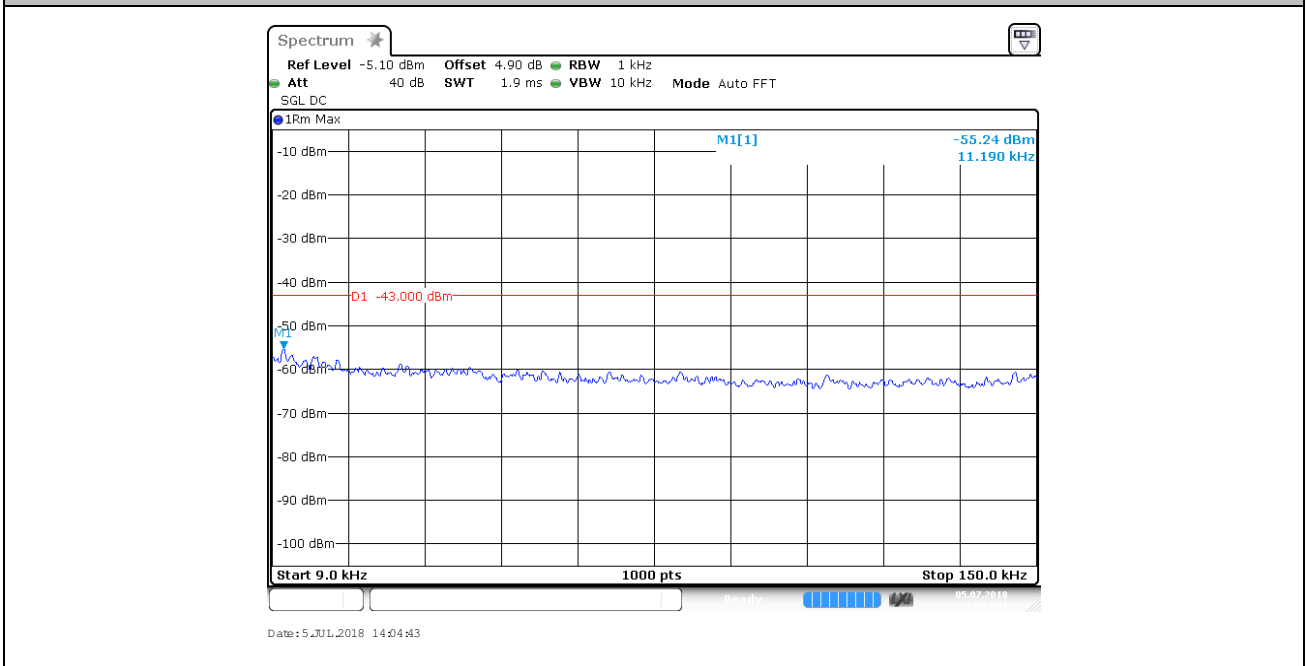
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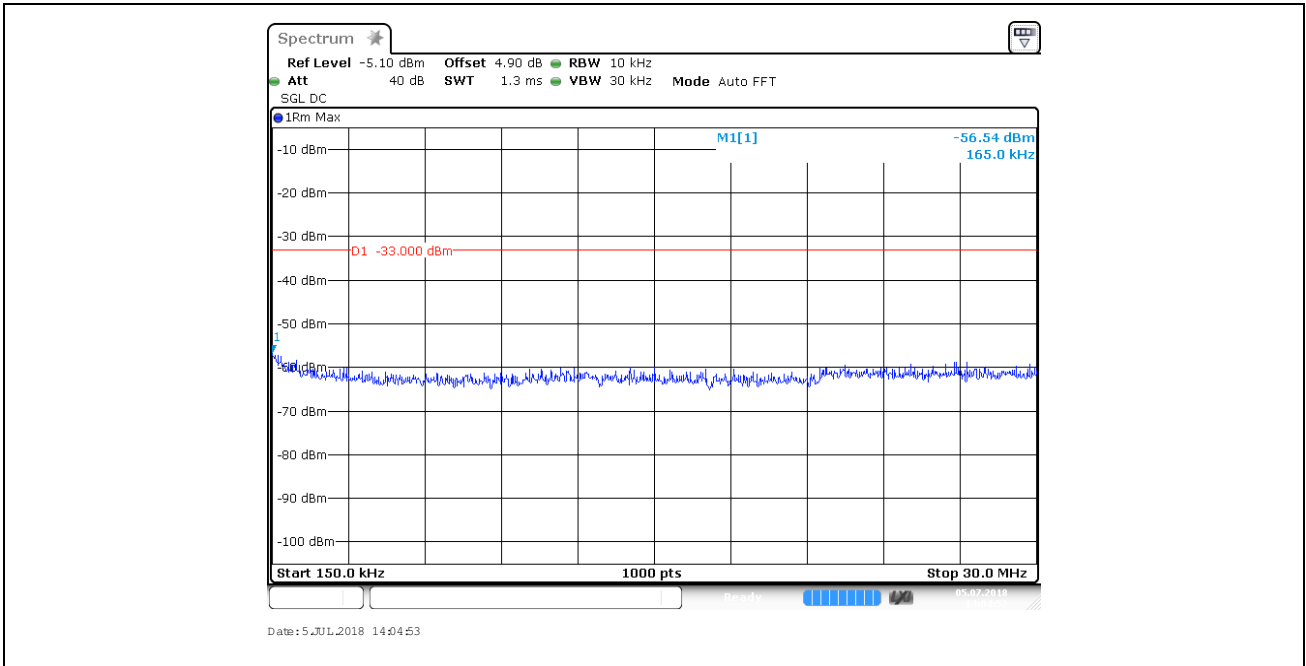
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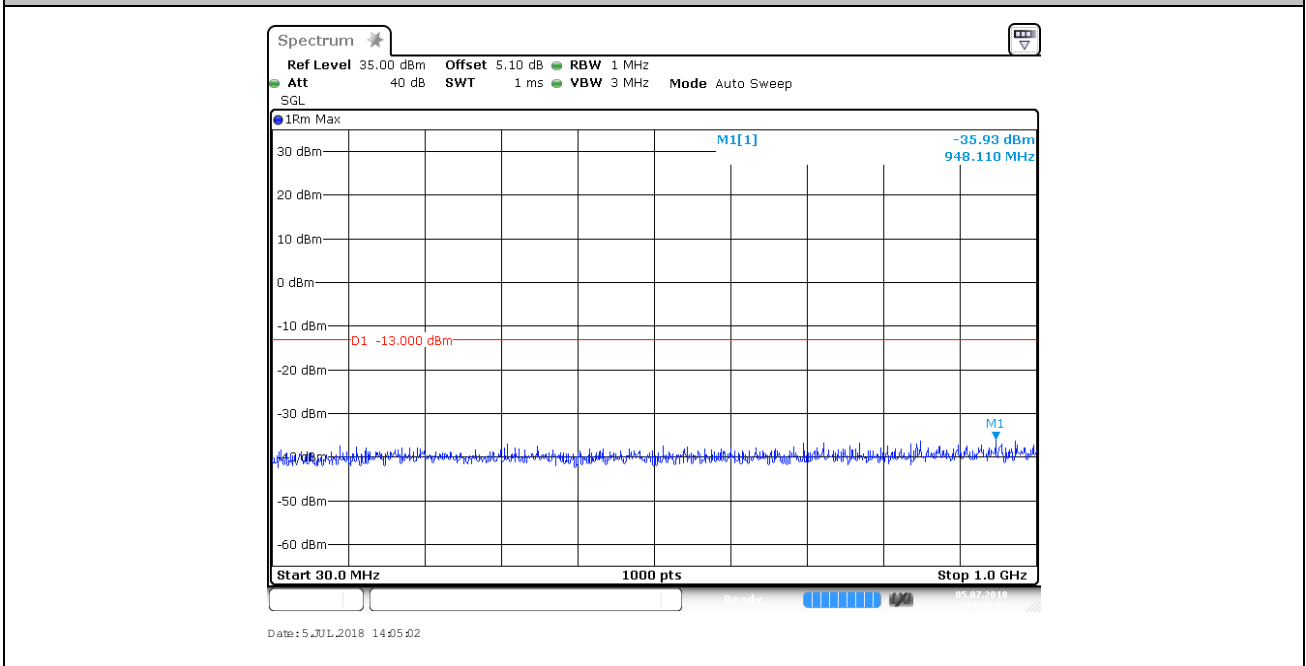
GSM1900/TM1_661



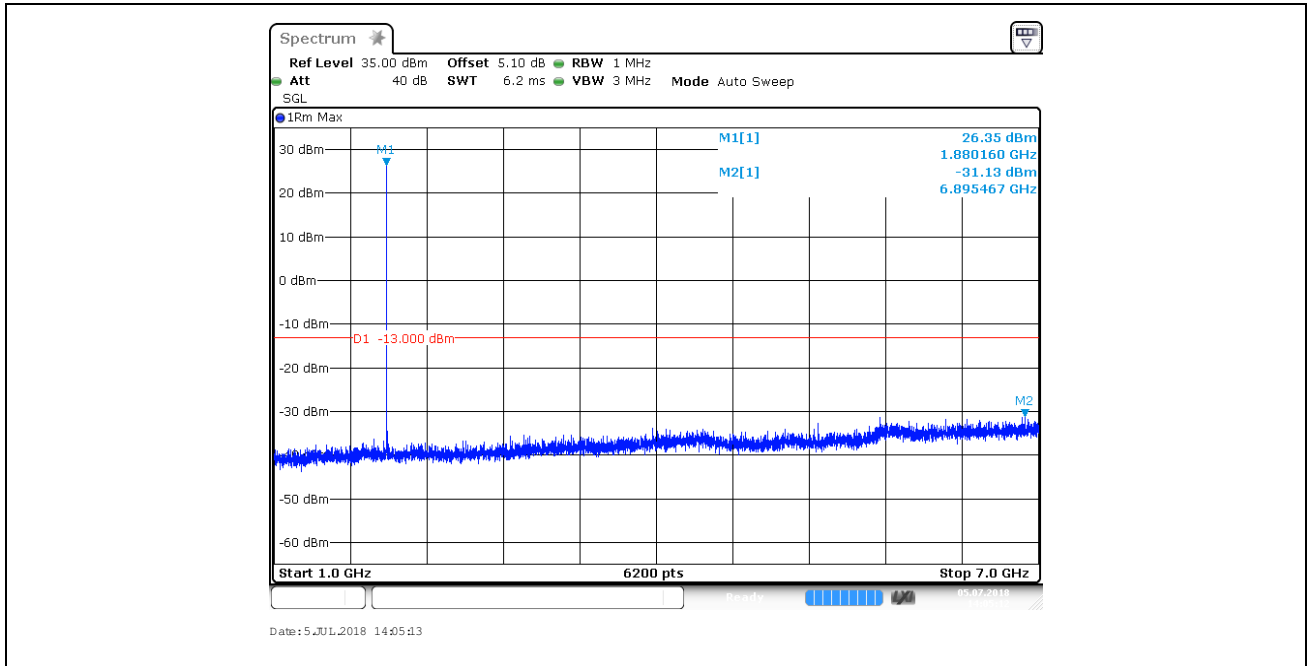
GSM1900/TM1_661



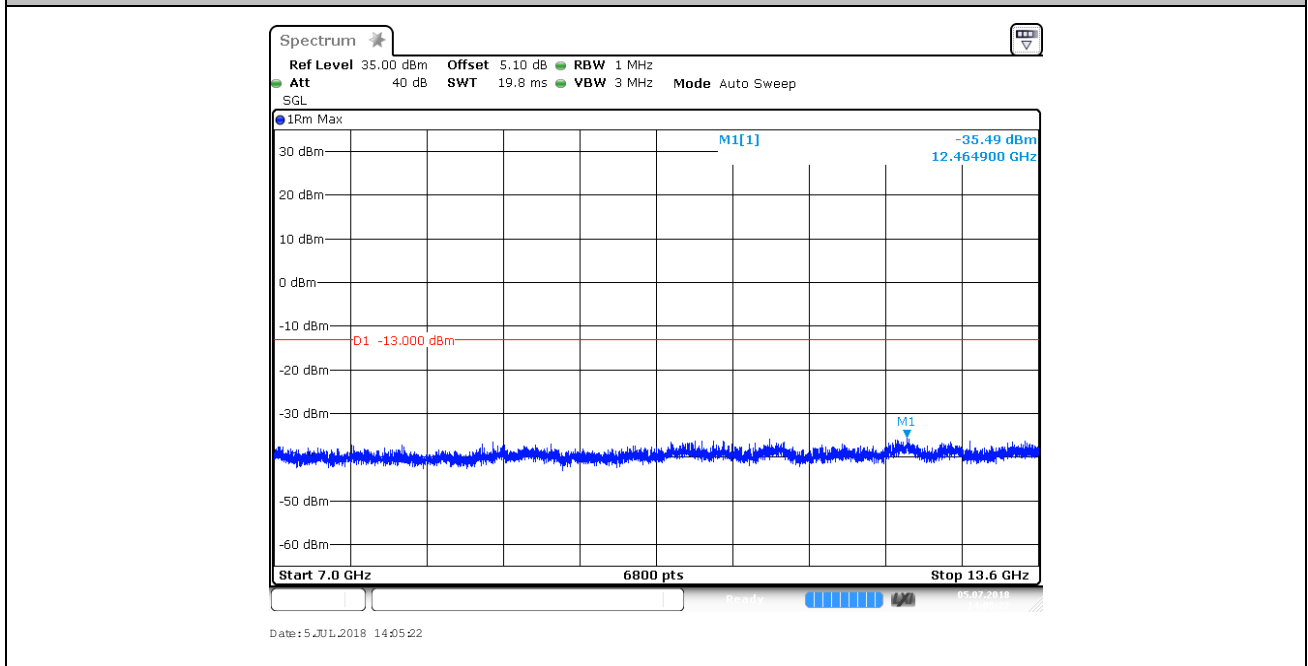
GSM1900/TM1_661



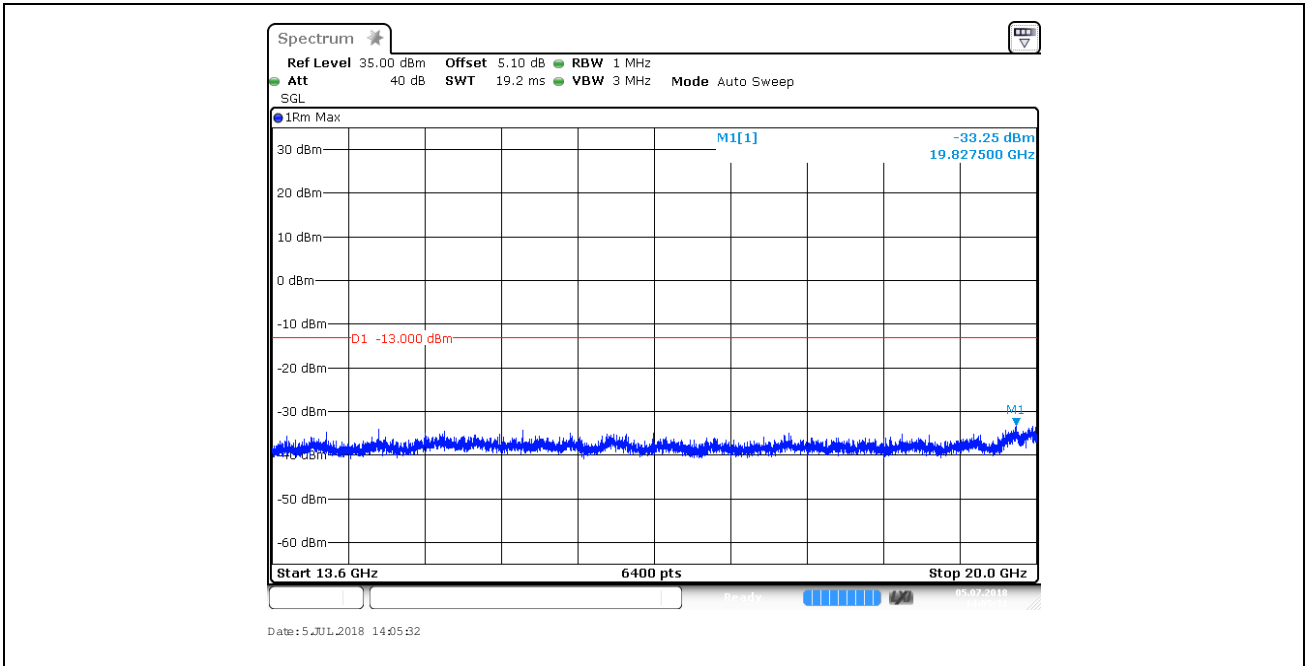
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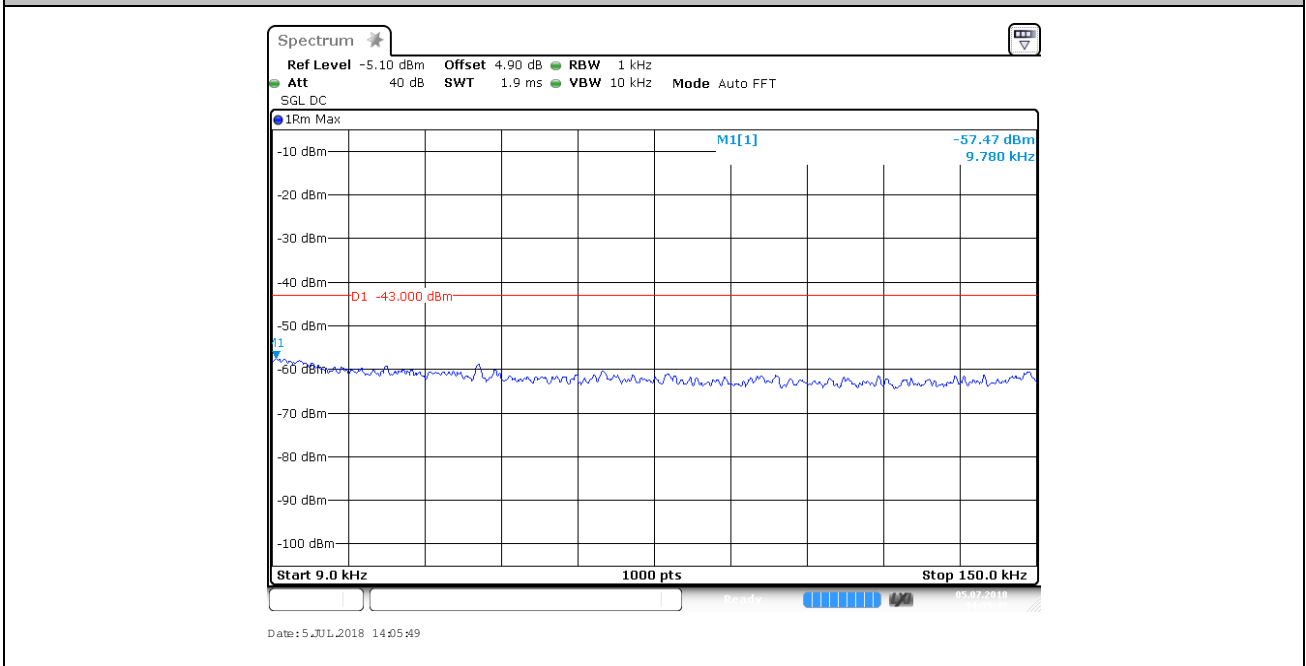
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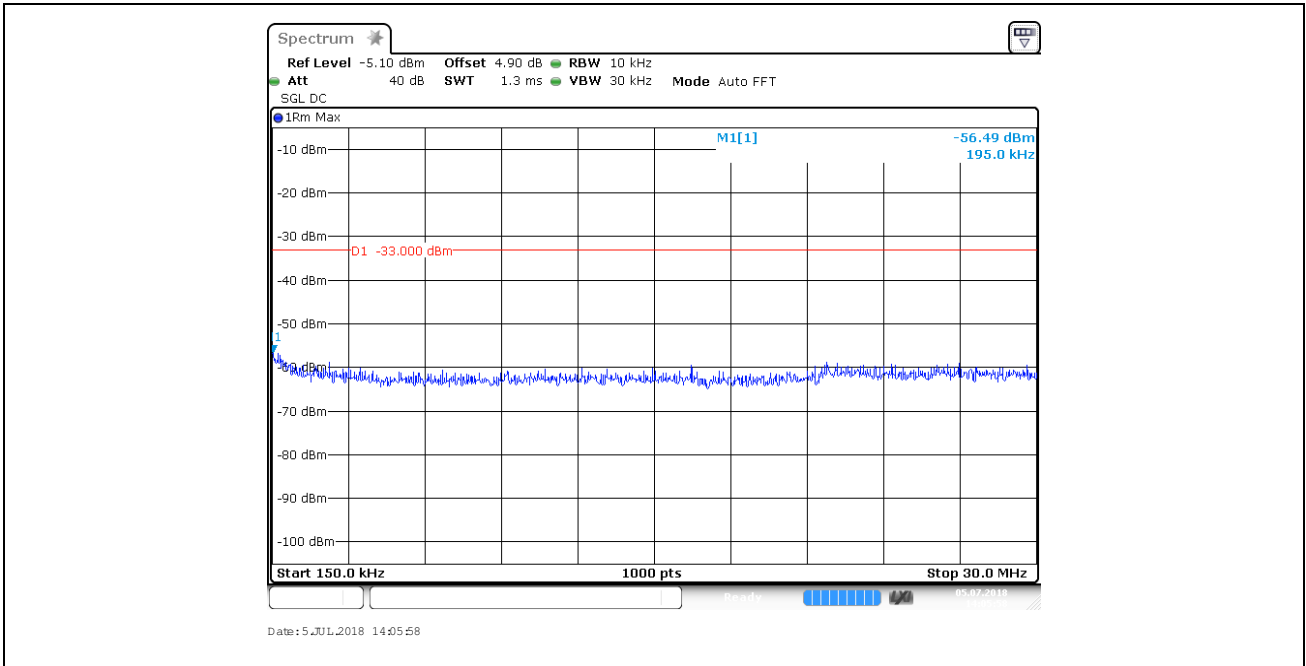
GSM1900/TM1_661



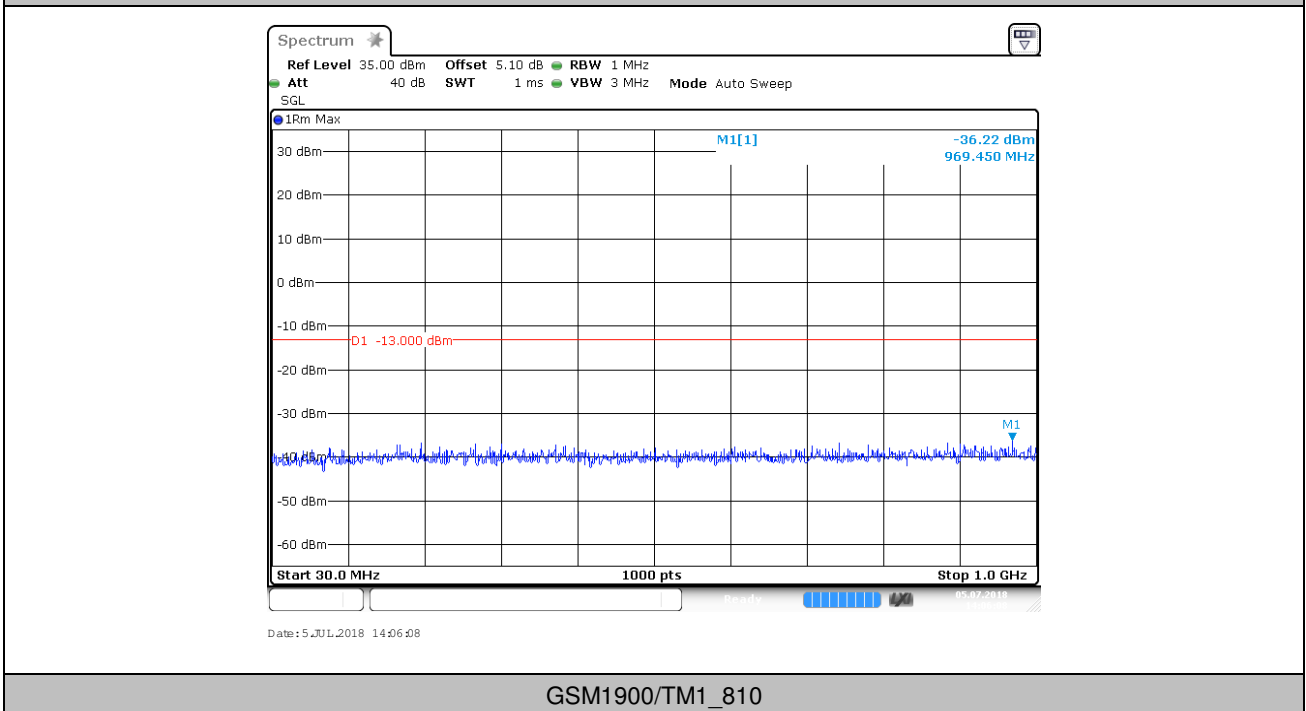
GSM1900/TM1_810



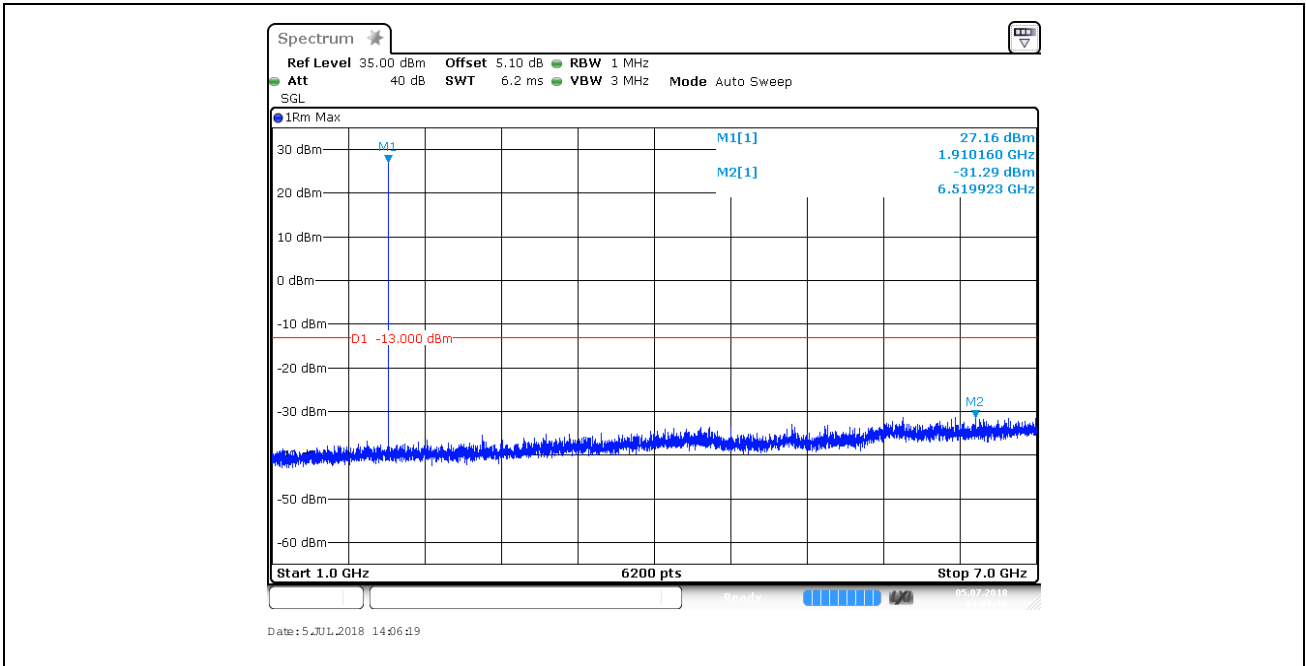
GSM1900/TM1_810



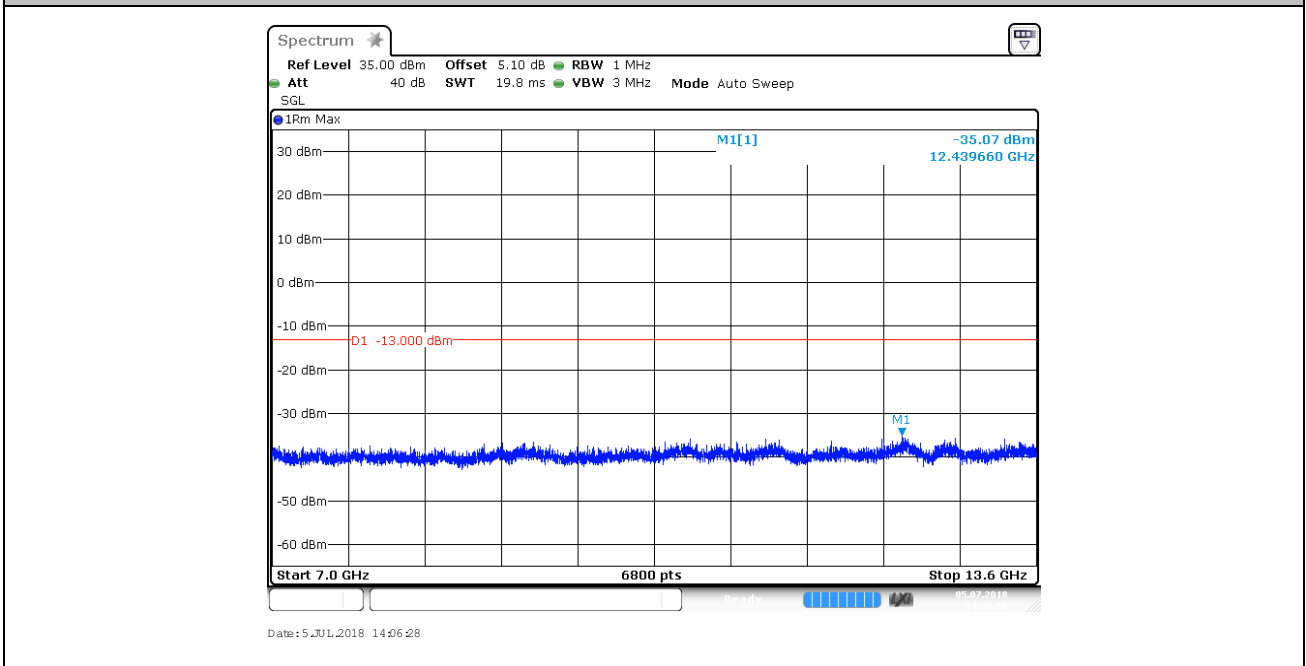
GSM1900/TM1_810



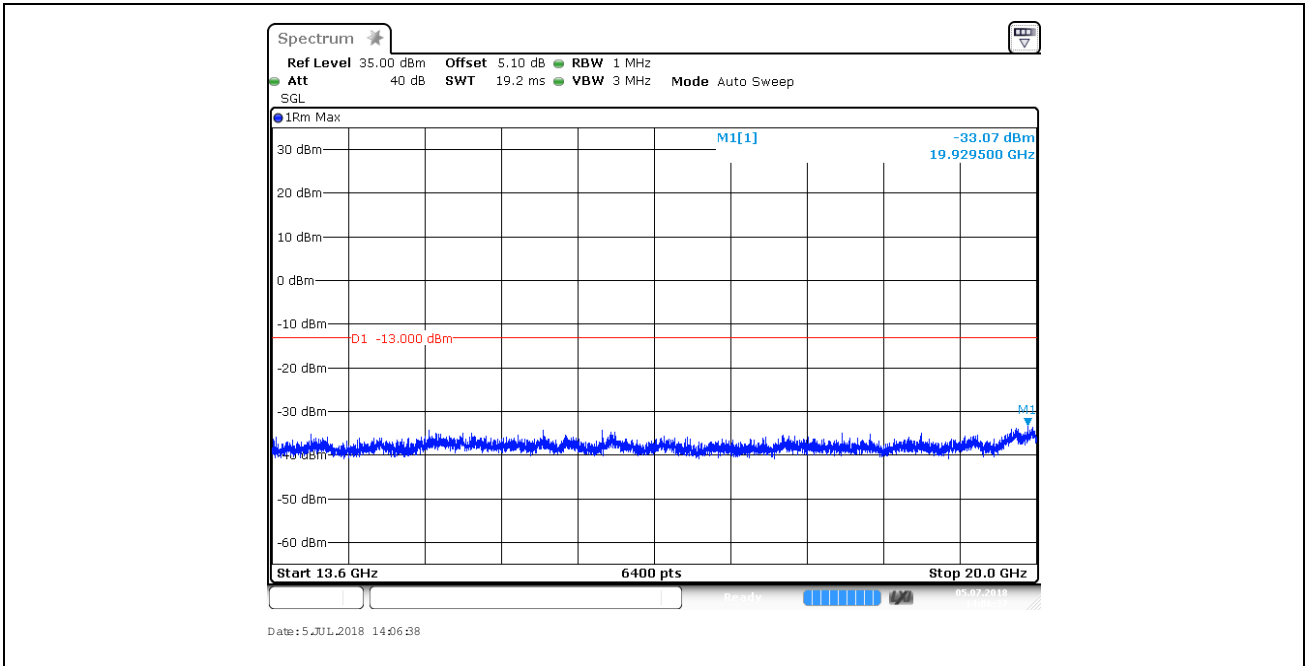
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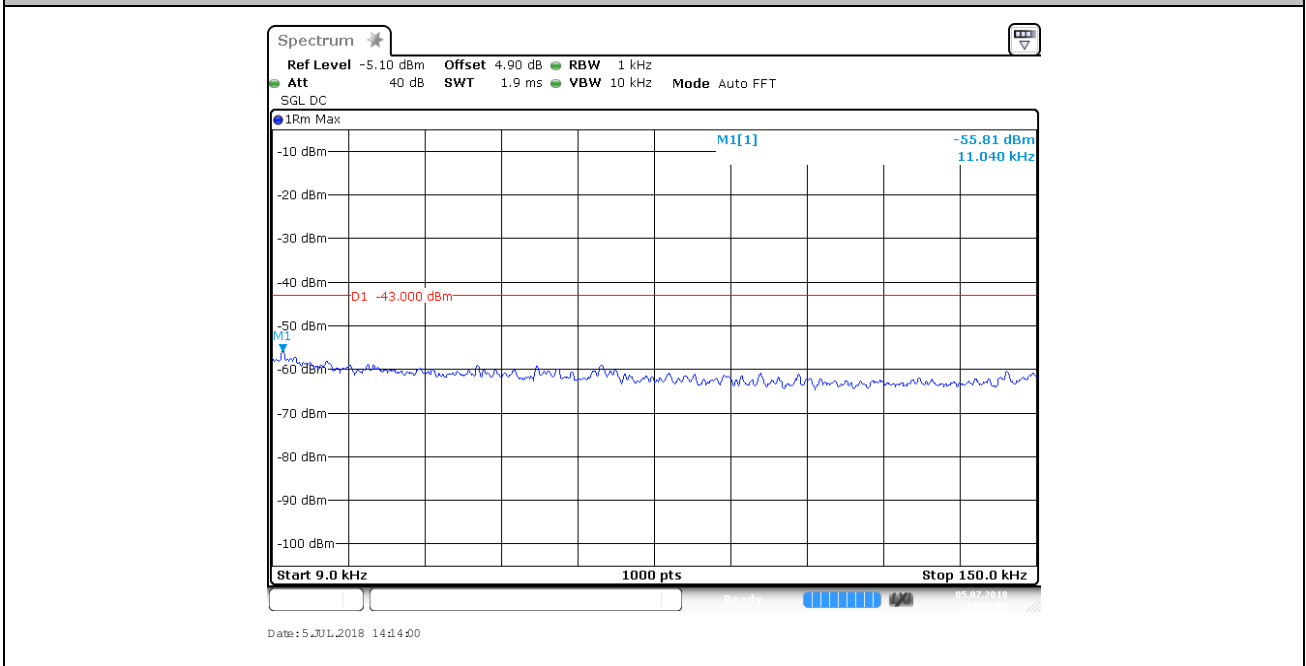
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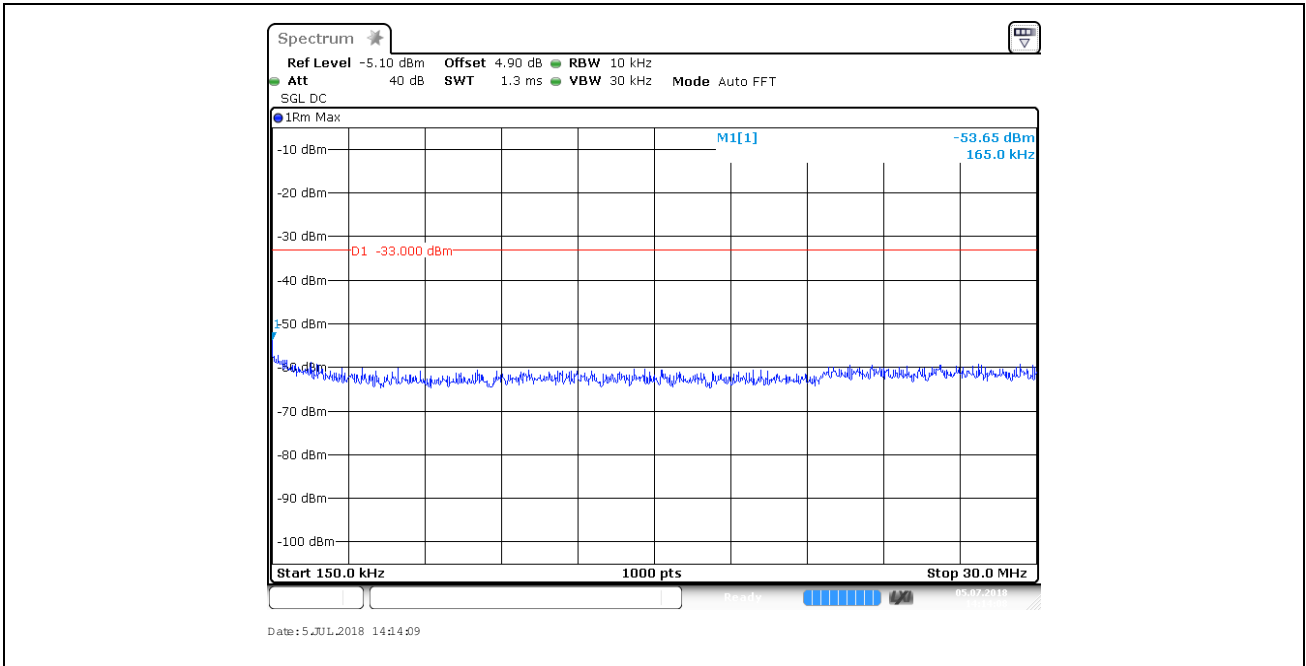
GSM1900/TM1_810



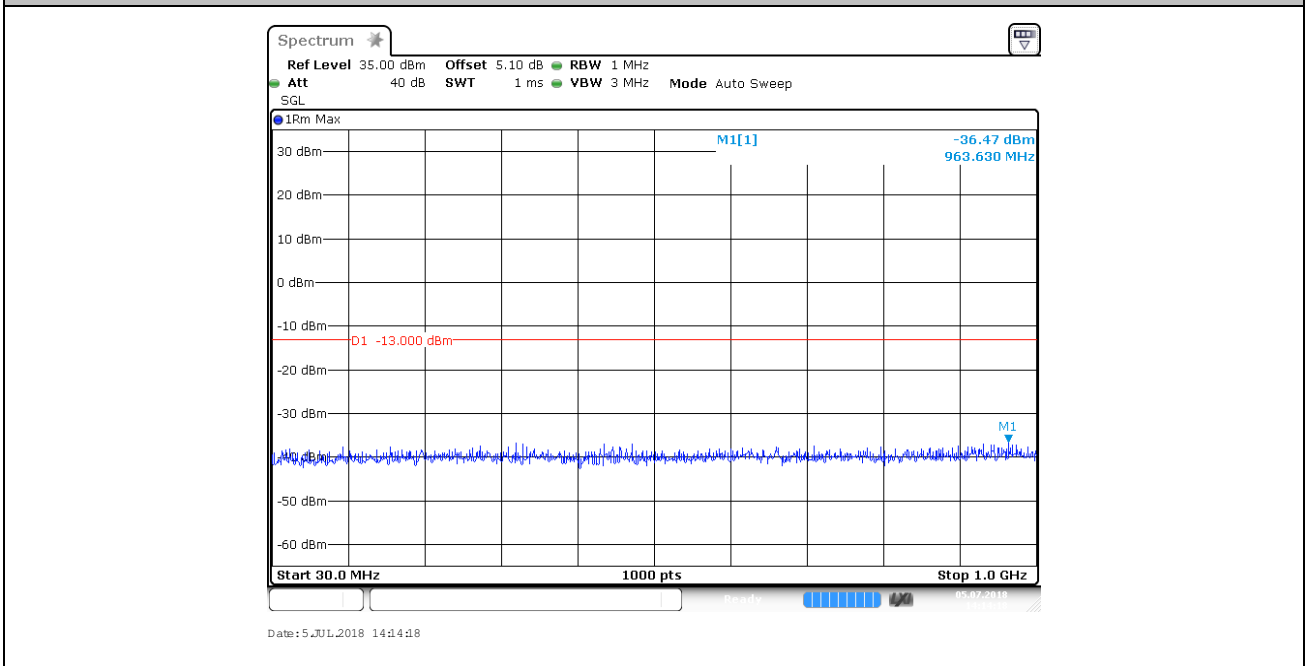
GSM1900/TM2_512



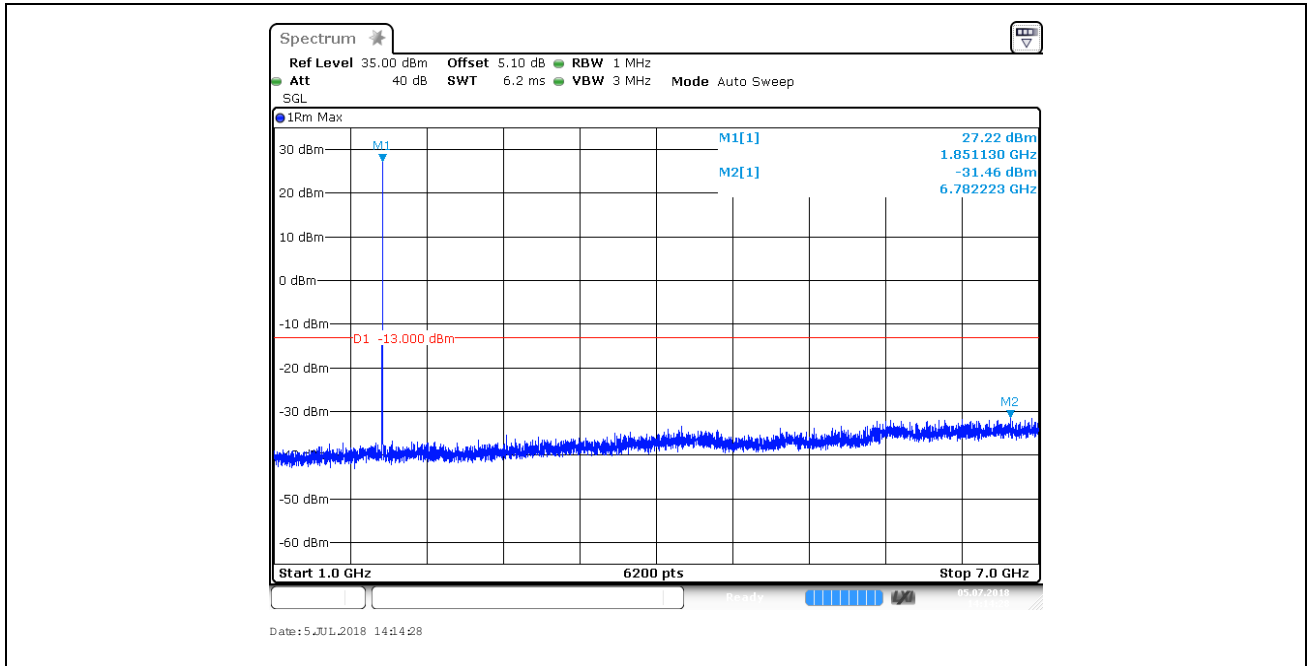
GSM1900/TM2_512



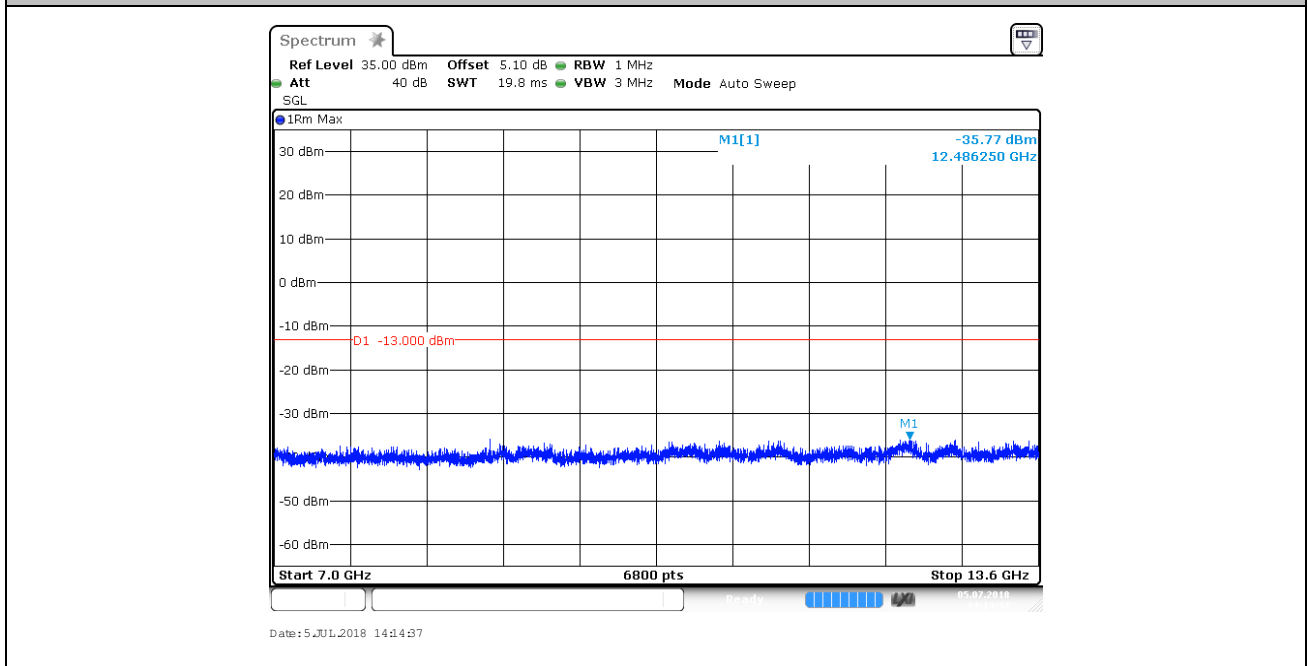
GSM1900/TM2_512



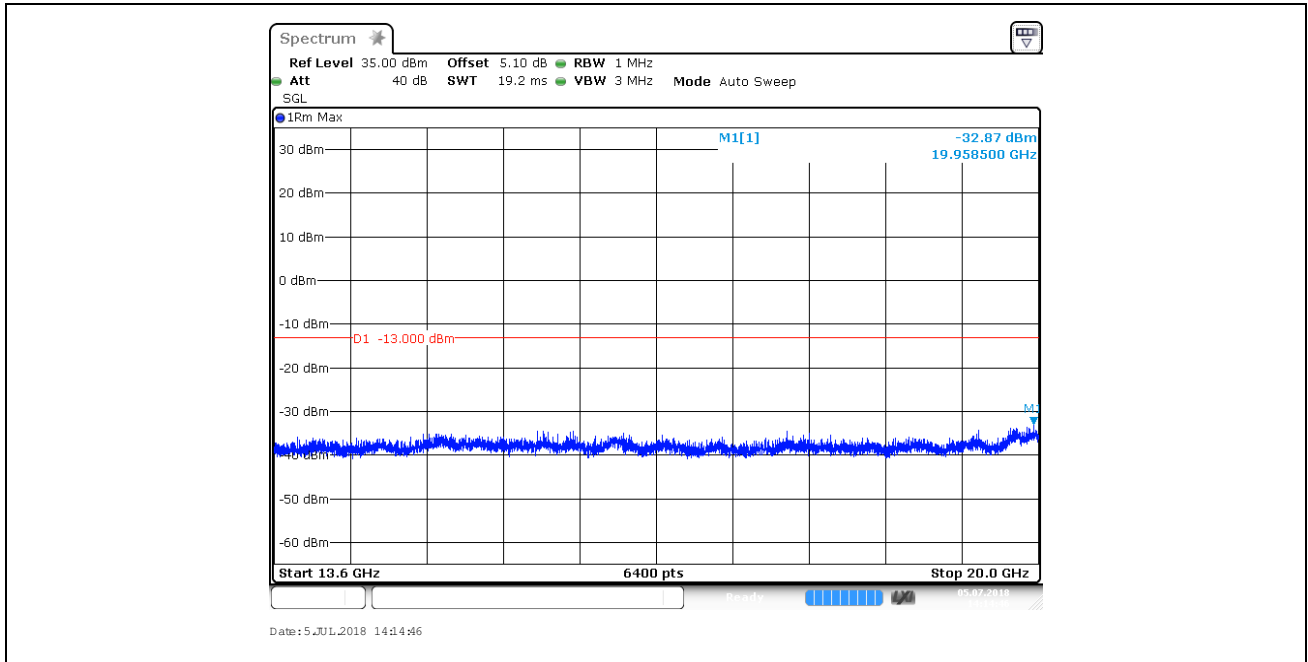
GSM1900/TM2_512



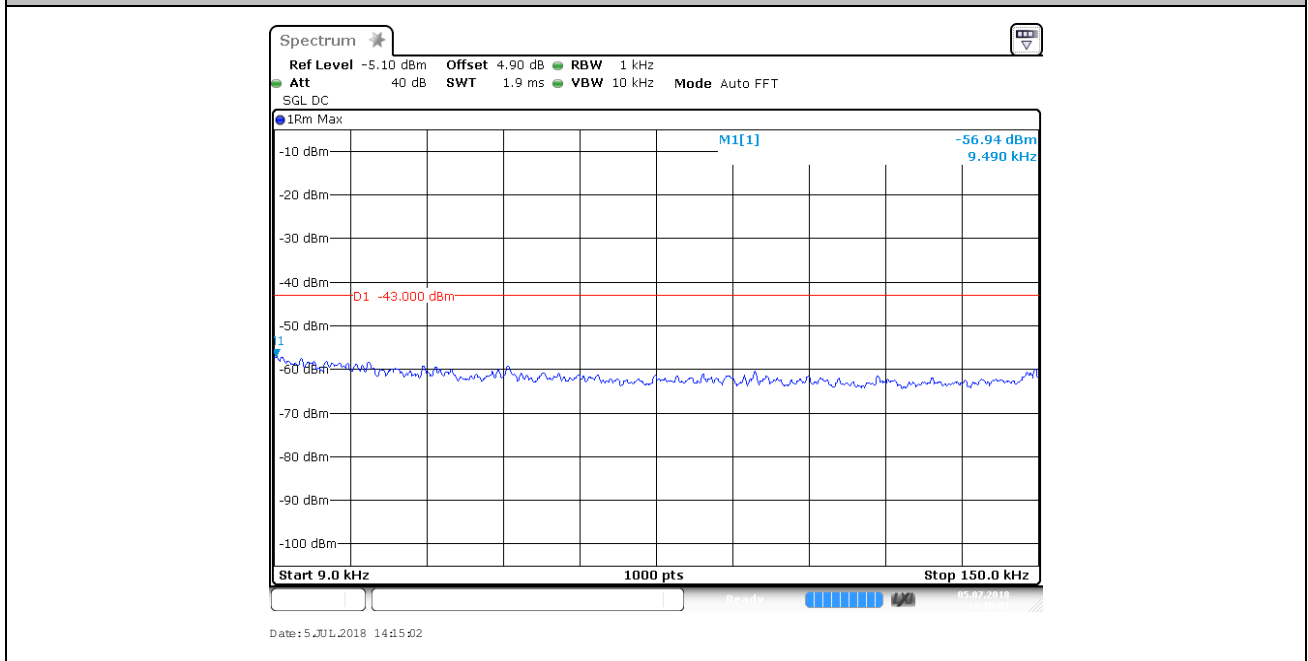
GSM1900/TM2_512



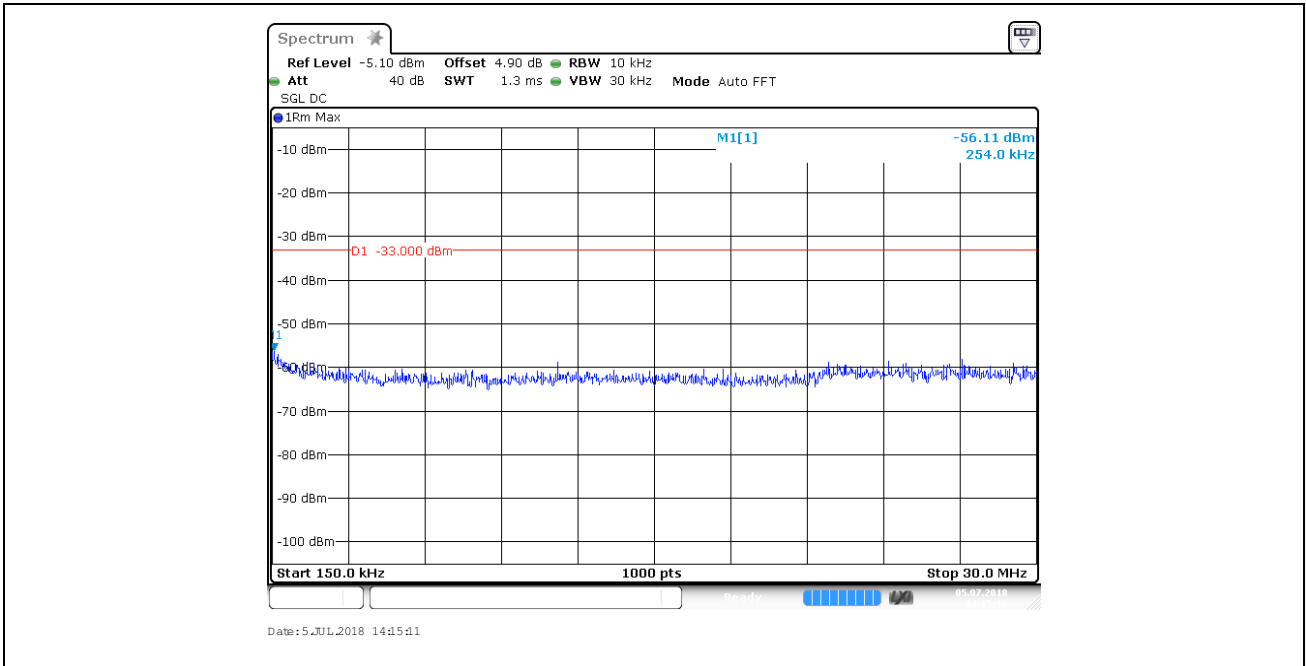
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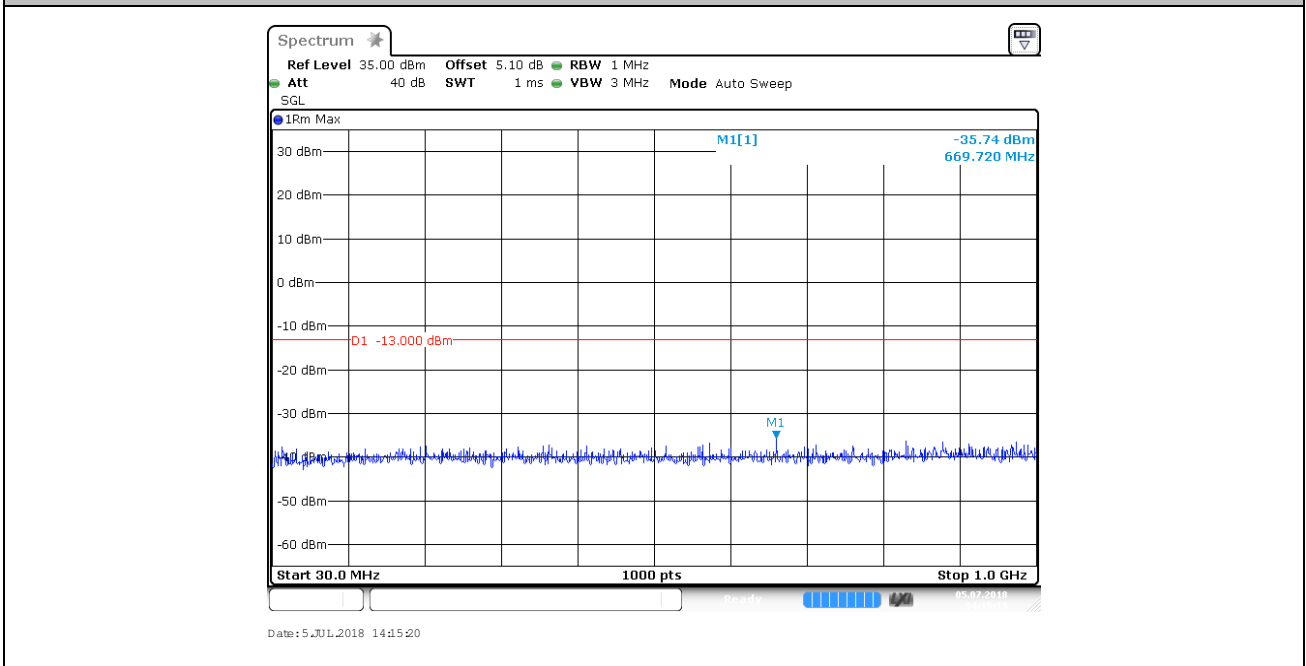
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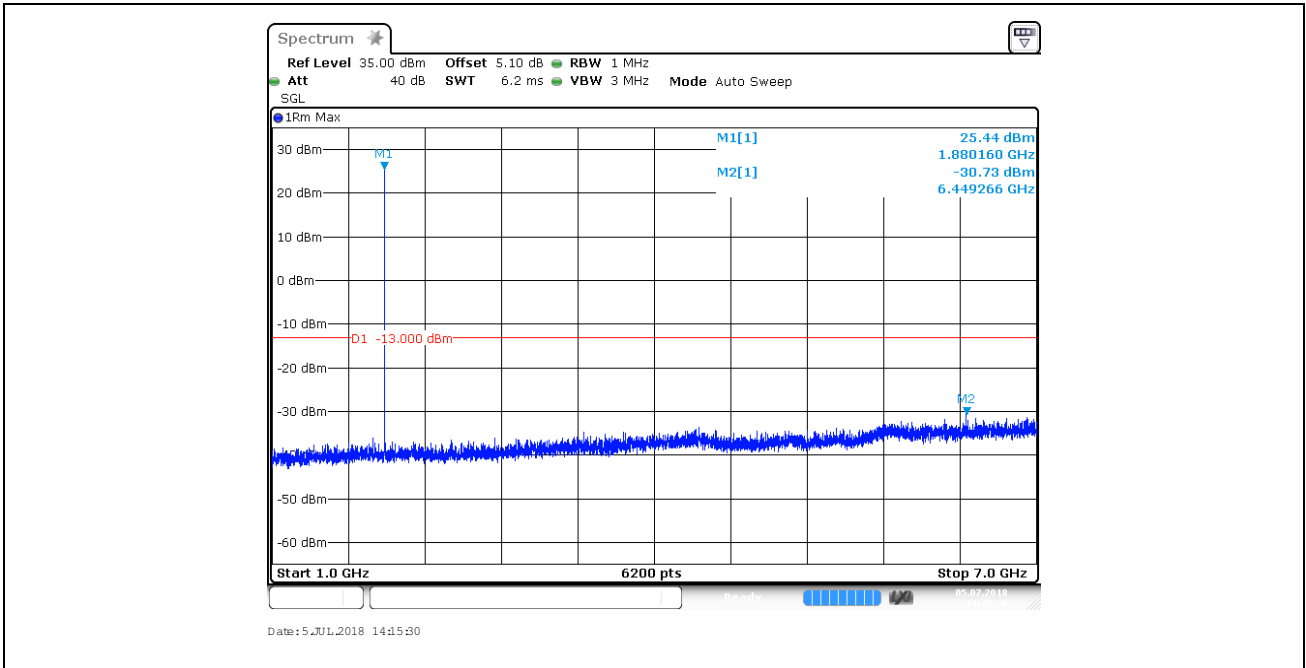
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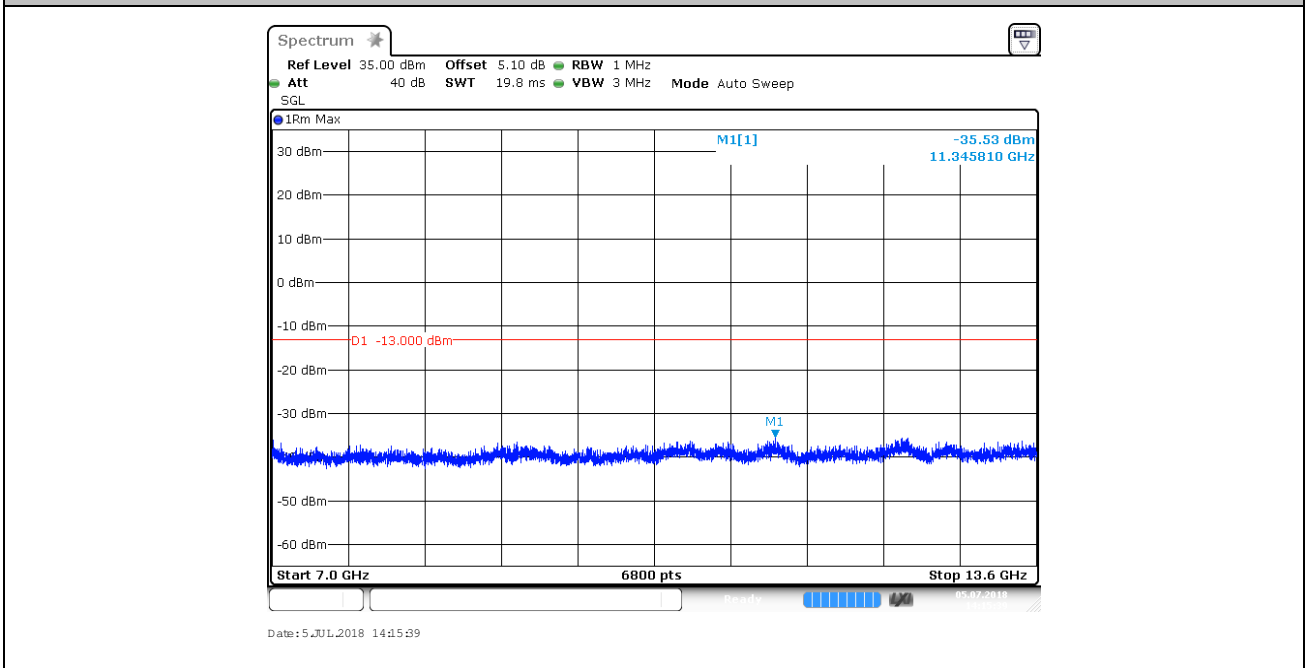
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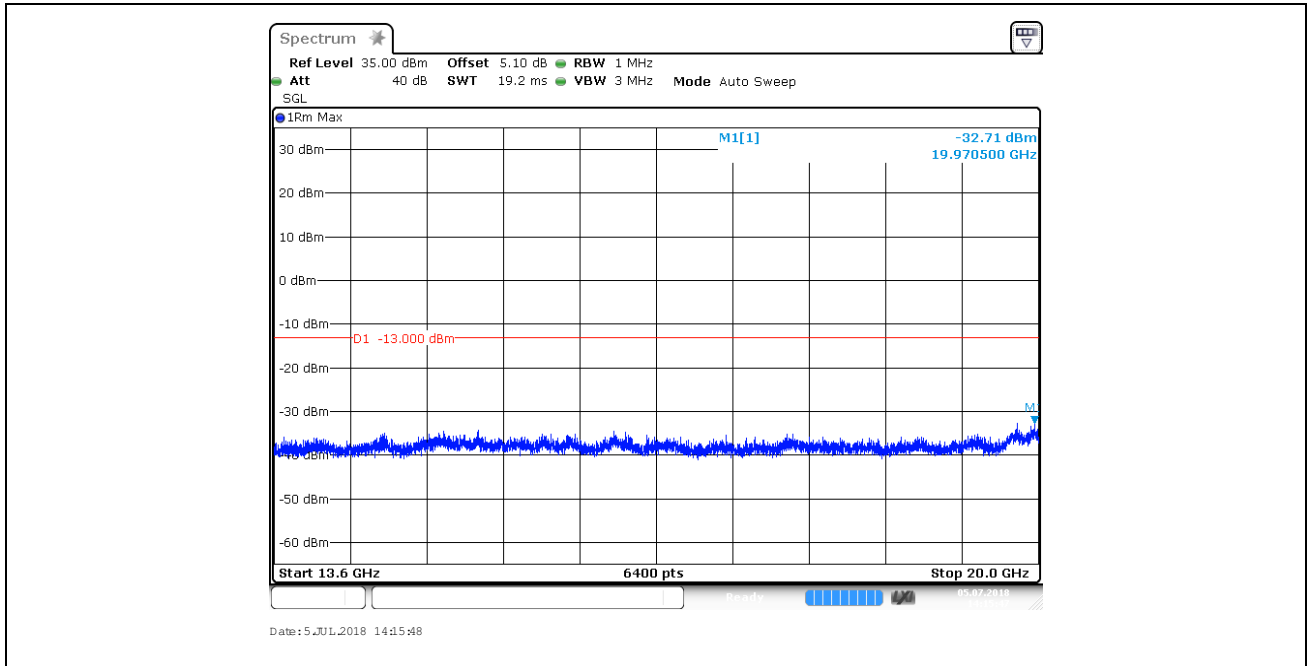
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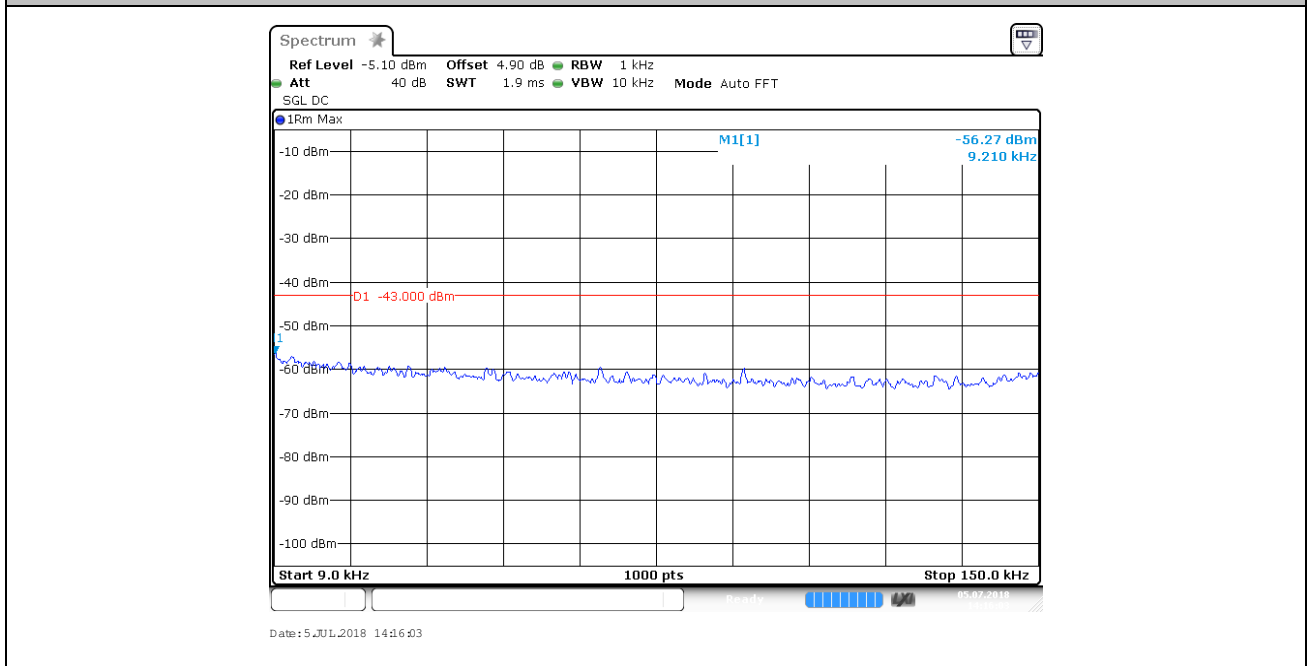
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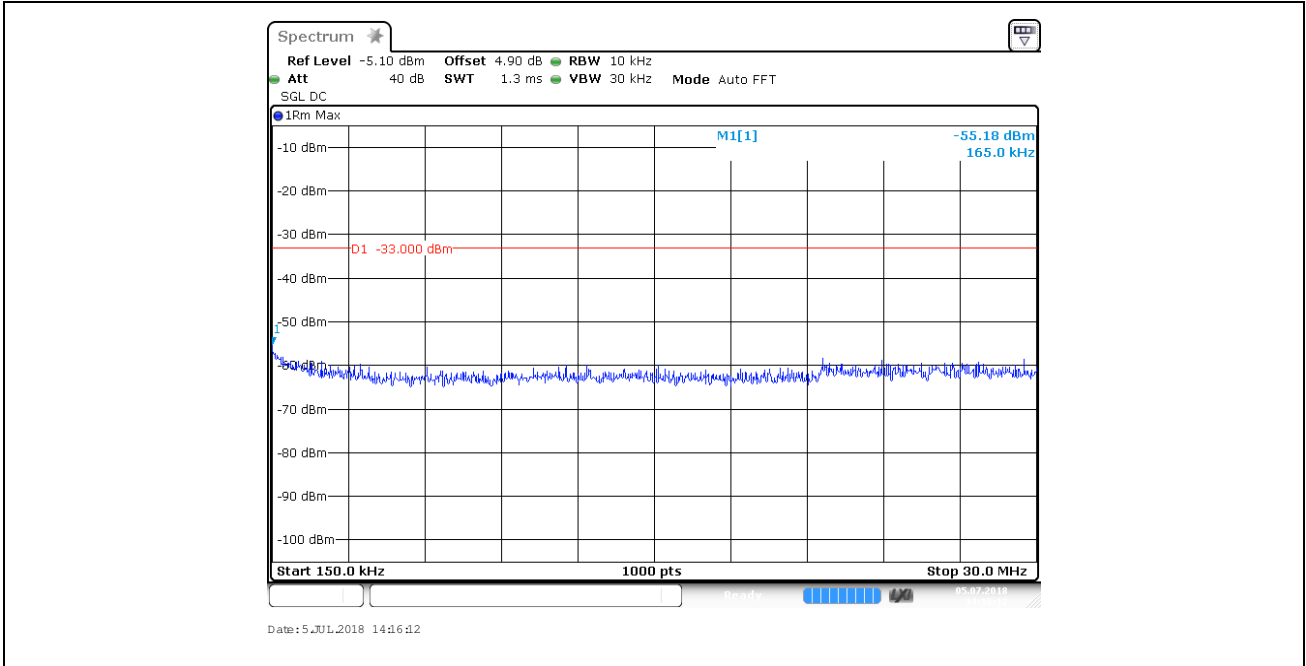
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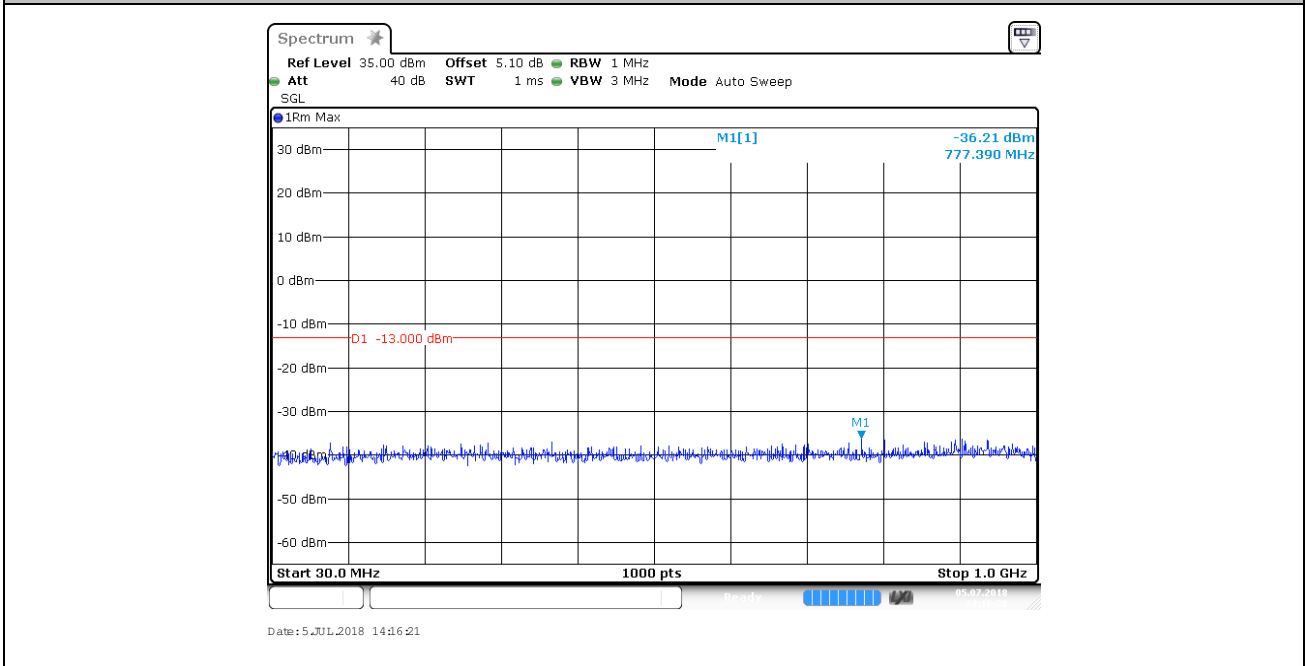
GSM1900/TM2_810



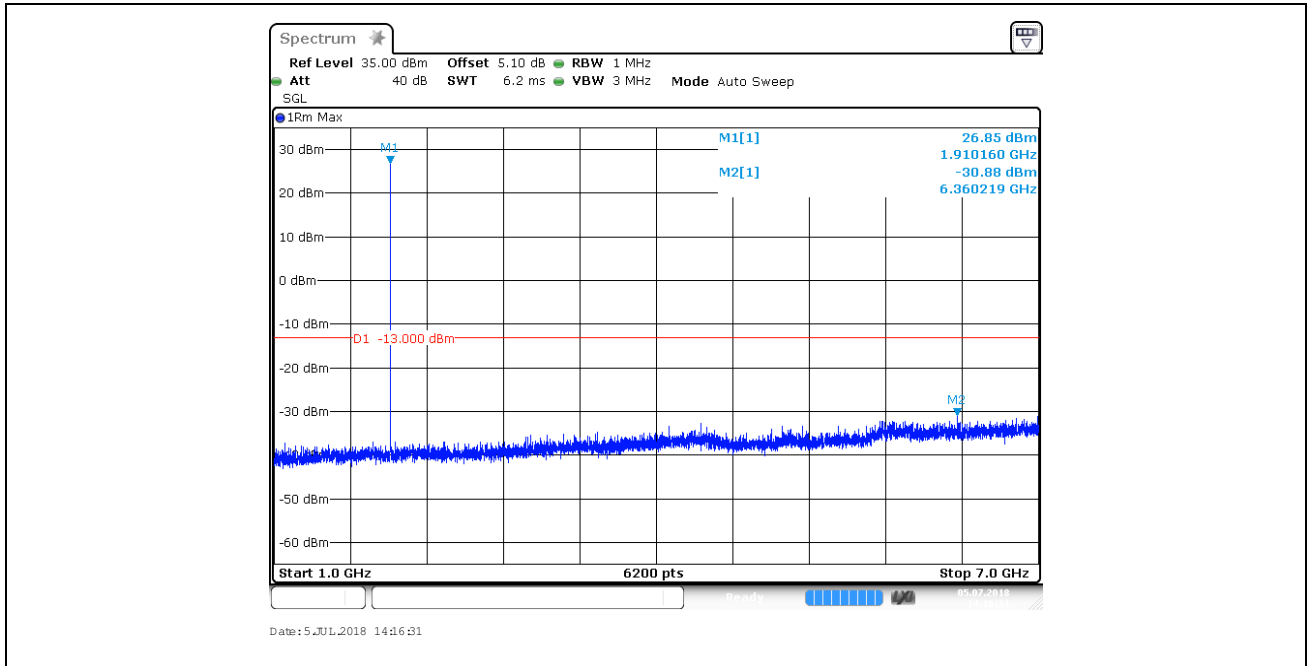
GSM1900/TM2_810



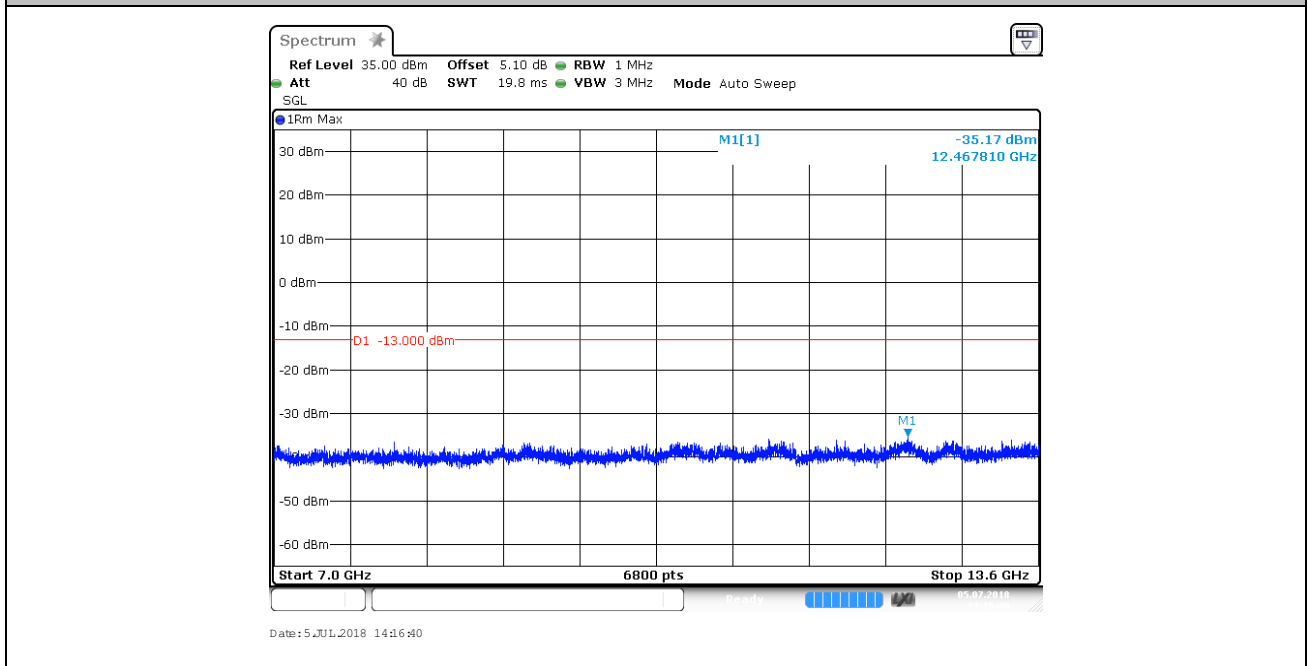
GSM1900/TM2_810



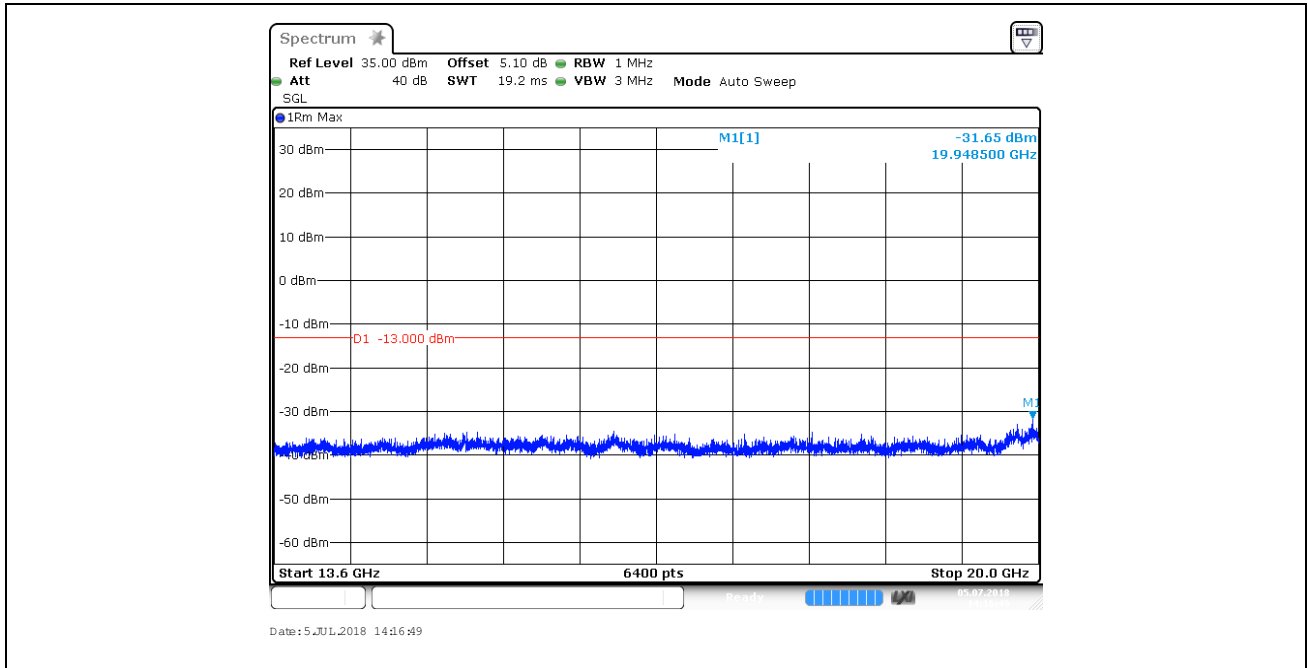
GSM1900/TM2_810



GSM1900/TM2_810



GSM1900/TM2_810





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)	Polarization
60.700500	-68.89	-13.00	55.89	Vertical
187.528000	-64.87	-13.00	51.87	Vertical
299.999500	-63.57	-13.00	50.57	Vertical
3700.350000	-56.39	-13.00	43.39	Vertical
5098.950000	-54.29	-13.00	41.29	Vertical
7010.650000	-53.36	-13.00	40.36	Vertical
61.234000	-61.97	-13.00	48.97	Horizontal
187.431000	-63.56	-13.00	50.56	Horizontal
299.999500	-63.03	-13.00	50.03	Horizontal
3700.350000	-53.37	-13.00	40.37	Horizontal
5550.450000	-50.63	-13.00	37.63	Horizontal
7939.200000	-51.55	-13.00	38.55	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
62.786000	-66.84	-13.00	53.84	Vertical
187.479500	-64.77	-13.00	51.77	Vertical
299.999500	-62.38	-13.00	49.38	Vertical
3760.200000	-55.13	-13.00	42.13	Vertical
4876.700000	-54.96	-13.00	41.96	Vertical
6147.200000	-52.78	-13.00	39.78	Vertical
61.476500	-61.37	-13.00	48.37	Horizontal
187.479500	-61.84	-13.00	48.84	Horizontal
299.999500	-63.95	-13.00	50.95	Horizontal
3759.850000	-53.63	-13.00	40.63	Horizontal
5222.500000	-55.08	-13.00	42.08	Horizontal
7806.200000	-52.74	-13.00	39.74	Horizontal



7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
61.185500	-67.90	-13.00	54.90	Vertical
187.479500	-64.70	-13.00	51.70	Vertical
299.999500	-63.54	-13.00	50.54	Vertical
3819.350000	-54.09	-13.00	41.09	Vertical
5472.750000	-55.29	-13.00	42.29	Vertical
6531.500000	-53.00	-13.00	40.00	Vertical
61.525000	-59.81	-13.00	46.81	Horizontal
187.479500	-62.21	-13.00	49.21	Horizontal
299.999500	-63.51	-13.00	50.51	Horizontal
3819.000000	-55.10	-13.00	42.10	Horizontal
5730.000000	-46.24	-13.00	33.24	Horizontal
7244.450000	-52.53	-13.00	39.53	Horizontal

7.2. Test Band = GSM 850

7.2.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
59.973000	-62.87	-13.00	49.87	Vertical
187.479500	-63.75	-13.00	50.75	Vertical
299.999500	-64.27	-13.00	51.27	Vertical
1648.500000	-52.60	-13.00	39.60	Vertical
3796.250000	-56.55	-13.00	43.55	Vertical
5073.750000	-54.79	-13.00	41.79	Vertical
60.458000	-61.46	-13.00	48.46	Horizontal
187.479500	-61.13	-13.00	48.13	Horizontal
412.471000	-63.91	-13.00	50.91	Horizontal
1648.275000	-50.68	-13.00	37.68	Horizontal
3603.750000	-57.73	-13.00	44.73	Horizontal
5459.100000	-55.29	-13.00	42.29	Horizontal



7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
61.961500	-67.74	-13.00	54.74	Vertical
187.479500	-64.03	-13.00	51.03	Vertical
412.471000	-64.80	-13.00	51.80	Vertical
1674.450000	-54.18	-13.00	41.18	Vertical
3864.150000	-57.57	-13.00	44.57	Vertical
6192.700000	-54.67	-13.00	41.67	Vertical
60.118500	-62.66	-13.00	49.66	Horizontal
187.528000	-61.36	-13.00	48.36	Horizontal
412.471000	-63.01	-13.00	50.01	Horizontal
1673.025000	-54.68	-13.00	41.68	Horizontal
3255.500000	-57.30	-13.00	44.30	Horizontal
4713.950000	-55.92	-13.00	42.92	Horizontal

7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
59.973000	-64.01	-13.00	51.01	Vertical
187.479500	-63.24	-13.00	50.24	Vertical
412.471000	-64.50	-13.00	51.50	Vertical
1697.550000	-52.72	-13.00	39.72	Vertical
3767.200000	-57.28	-13.00	44.28	Vertical
5914.100000	-54.73	-13.00	41.73	Vertical
59.730500	-62.96	-13.00	49.96	Horizontal
187.479500	-61.74	-13.00	48.74	Horizontal
412.471000	-64.04	-13.00	51.04	Horizontal
1697.625000	-51.65	-13.00	38.65	Horizontal
3863.800000	-57.71	-13.00	44.71	Horizontal
7888.450000	-52.18	-13.00	39.18	Horizontal

NOTE:

- 1) All modes were tested, but the data presented above is the worst case. 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 above harmonics had been displayed.



8. Frequency Stability

8.1. Frequency Error Vs Voltage

Voltage							
BAND	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850/TM1	128	VL	TN	11.85	0.014376	2.5	PASS
GSM850/TM1	128	VN	TN	15.56	0.018881	2.5	PASS
GSM850/TM1	128	VH	TN	15.11	0.018333	2.5	PASS
GSM850/TM1	190	VL	TN	15.63	0.018678	2.5	PASS
GSM850/TM1	190	VN	TN	18.44	0.022036	2.5	PASS
GSM850/TM1	190	VH	TN	18.37	0.021959	2.5	PASS
GSM850/TM1	251	VL	TN	12.01	0.014150	2.5	PASS
GSM850/TM1	251	VN	TN	12.82	0.015101	2.5	PASS
GSM850/TM1	251	VH	TN	14.69	0.017307	2.5	PASS
GSM1900/TM1	512	VL	TN	26.70	0.014431	2.5	PASS
GSM1900/TM1	512	VN	TN	34.13	0.018445	2.5	PASS
GSM1900/TM1	512	VH	TN	26.51	0.014326	2.5	PASS
GSM1900/TM1	661	VL	TN	25.44	0.013533	2.5	PASS
GSM1900/TM1	661	VN	TN	27.80	0.014786	2.5	PASS
GSM1900/TM1	661	VH	TN	26.02	0.013842	2.5	PASS
GSM1900/TM1	810	VL	TN	26.31	0.013778	2.5	PASS
GSM1900/TM1	810	VN	TN	26.47	0.013862	2.5	PASS
GSM1900/TM1	810	VH	TN	27.28	0.014285	2.5	PASS



8.2. Frequency Error Vs Temperature

BAND	Channel	Voltage (Vdc)	Temperature				Verdict
			Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
GSM850/TM1	128	VN	-30	16.11	0.019547	2.5	PASS
GSM850/TM1	128	VN	-20	16.76	0.020330	2.5	PASS
GSM850/TM1	128	VN	-10	14.46	0.017549	2.5	PASS
GSM850/TM1	128	VN	0	14.04	0.017040	2.5	PASS
GSM850/TM1	128	VN	10	13.04	0.015826	2.5	PASS
GSM850/TM1	128	VN	20	13.33	0.016178	2.5	PASS
GSM850/TM1	128	VN	30	15.98	0.019390	2.5	PASS
GSM850/TM1	128	VN	40	7.01	0.008500	2.5	PASS
GSM850/TM1	128	VN	50	11.46	0.013906	2.5	PASS
GSM850/TM1	190	VN	-30	16.82	0.020106	2.5	PASS
GSM850/TM1	190	VN	-20	13.92	0.016633	2.5	PASS
GSM850/TM1	190	VN	-10	15.01	0.017945	2.5	PASS
GSM850/TM1	190	VN	0	16.56	0.019798	2.5	PASS
GSM850/TM1	190	VN	10	20.89	0.024969	2.5	PASS
GSM850/TM1	190	VN	20	23.86	0.028519	2.5	PASS
GSM850/TM1	190	VN	30	23.25	0.027786	2.5	PASS
GSM850/TM1	190	VN	40	23.25	0.027786	2.5	PASS
GSM850/TM1	190	VN	50	19.60	0.023425	2.5	PASS
GSM850/TM1	251	VN	-30	13.66	0.016090	2.5	PASS
GSM850/TM1	251	VN	-20	12.11	0.014264	2.5	PASS
GSM850/TM1	251	VN	-10	10.69	0.012590	2.5	PASS
GSM850/TM1	251	VN	0	13.08	0.015405	2.5	PASS
GSM850/TM1	251	VN	10	10.59	0.012476	2.5	PASS
GSM850/TM1	251	VN	20	14.46	0.017041	2.5	PASS
GSM850/TM1	251	VN	30	16.24	0.019133	2.5	PASS
GSM850/TM1	251	VN	40	12.56	0.014796	2.5	PASS
GSM850/TM1	251	VN	50	11.91	0.014036	2.5	PASS
GSM1900/TM1	512	VN	-30	27.18	0.014693	2.5	PASS
GSM1900/TM1	512	VN	-20	28.31	0.015304	2.5	PASS
GSM1900/TM1	512	VN	-10	29.06	0.015705	2.5	PASS
GSM1900/TM1	512	VN	0	27.54	0.014885	2.5	PASS
GSM1900/TM1	512	VN	10	28.06	0.015164	2.5	PASS
GSM1900/TM1	512	VN	20	30.57	0.016525	2.5	PASS
GSM1900/TM1	512	VN	30	28.12	0.015199	2.5	PASS
GSM1900/TM1	512	VN	40	22.57	0.012197	2.5	PASS
GSM1900/TM1	512	VN	50	21.24	0.011482	2.5	PASS



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GSM1900/TM1	661	VN	-30	25.51	0.013567	2.5	PASS
GSM1900/TM1	661	VN	-20	28.99	0.015422	2.5	PASS
GSM1900/TM1	661	VN	-10	20.08	0.010682	2.5	PASS
GSM1900/TM1	661	VN	0	29.67	0.015782	2.5	PASS
GSM1900/TM1	661	VN	10	44.91	0.023888	2.5	PASS
GSM1900/TM1	661	VN	20	48.98	0.026052	2.5	PASS
GSM1900/TM1	661	VN	30	41.46	0.022051	2.5	PASS
GSM1900/TM1	661	VN	40	51.33	0.027306	2.5	PASS
GSM1900/TM1	661	VN	50	55.05	0.029281	2.5	PASS
GSM1900/TM1	810	VN	-30	25.02	0.013102	2.5	PASS
GSM1900/TM1	810	VN	-20	25.05	0.013119	2.5	PASS
GSM1900/TM1	810	VN	-10	26.38	0.013812	2.5	PASS
GSM1900/TM1	810	VN	0	22.83	0.011952	2.5	PASS
GSM1900/TM1	810	VN	10	28.15	0.014741	2.5	PASS
GSM1900/TM1	810	VN	20	35.09	0.018376	2.5	PASS
GSM1900/TM1	810	VN	30	34.03	0.017818	2.5	PASS
GSM1900/TM1	810	VN	40	34.77	0.018207	2.5	PASS
GSM1900/TM1	810	VN	50	36.29	0.019002	2.5	PASS

The End